As Built Record Drawings -

Guildford Way and Falcon Drive

PORT MOODY

GUILDFORD WAY

CITY OF COQUITLAM

EAGLECREST DR.

TYPE 5686 PULL BOX (INSTALLED DIRECTLY AT BACK OF SIDEWALK)

4 x 78mm R.PVC CONDUIT (EMPTY)

TYPE 5686 PULL BOX

I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THESE WORKS ARE COMPLETE AND WERE CONSTRUCTED AS ON THIS 'RECORD DRAWING'.

LCP SIGNAL MANAGEMENT INC.

SIGNED : _____
Larry C. Parks

DATE : _____

This photocopy is supplied by the City of Coquitlam for general information only and the accuracy of the information contained on the document is in no way guaranteed by the City.

*See E0137, E0050–02 &–03, E0086–03 for earlier street lighting

See CEDMS E0993–01TS/C0120–01 for Traffic Signal

See E0758–01 & –02 for Traffic Signal

1 x 53mm R.PVC CONDUIT

1 x 78mm R.PVC CONDUIT (EMPTY)

4 x 78mm R.PVC CONDUIT (EMPTY) (3m OFF EDGE OF PAVEMENT)

1 x 78mm R.PVC CONDUIT (EMPTY) (BETWEEN PULL BOX AND CONTROLLER CABINET)

SEE THIS SHT–ABOVE

SEE THIS SHT–BELOW

SEE SHT F.2

NOTE: THIS LINE IS THE FUTURE CURB LINE FOR THIS SECTION

NOTE: THIS LINE IS THE EX. EDGE OF PAVEMENT FOR THIS SECTION

Note:
Location of existing utilities shown are approximate and should be confirmed by pipe locator and manual digging. All or any existing structures are not necessarily shown.

COQUITLAM RECORD DRAWING NO
E0992–01
•C0119–01

No	Date	Revision	Dr.	Ch.
2	SEP25/02	RECORD DRAWINGS	LRM	LCP
1	APR16/02	ISSUED FOR TENDER	LRM	LCP
--	APR11/02	PRELIMINARY REVIEW SET	LRM	LCP

LCP Signal Management Inc.
1447 Gabriola Drive
Coquitlam, B.C.
V3E 2C6
Ph: (604)–942–3631
Fax: (604)–945–9809

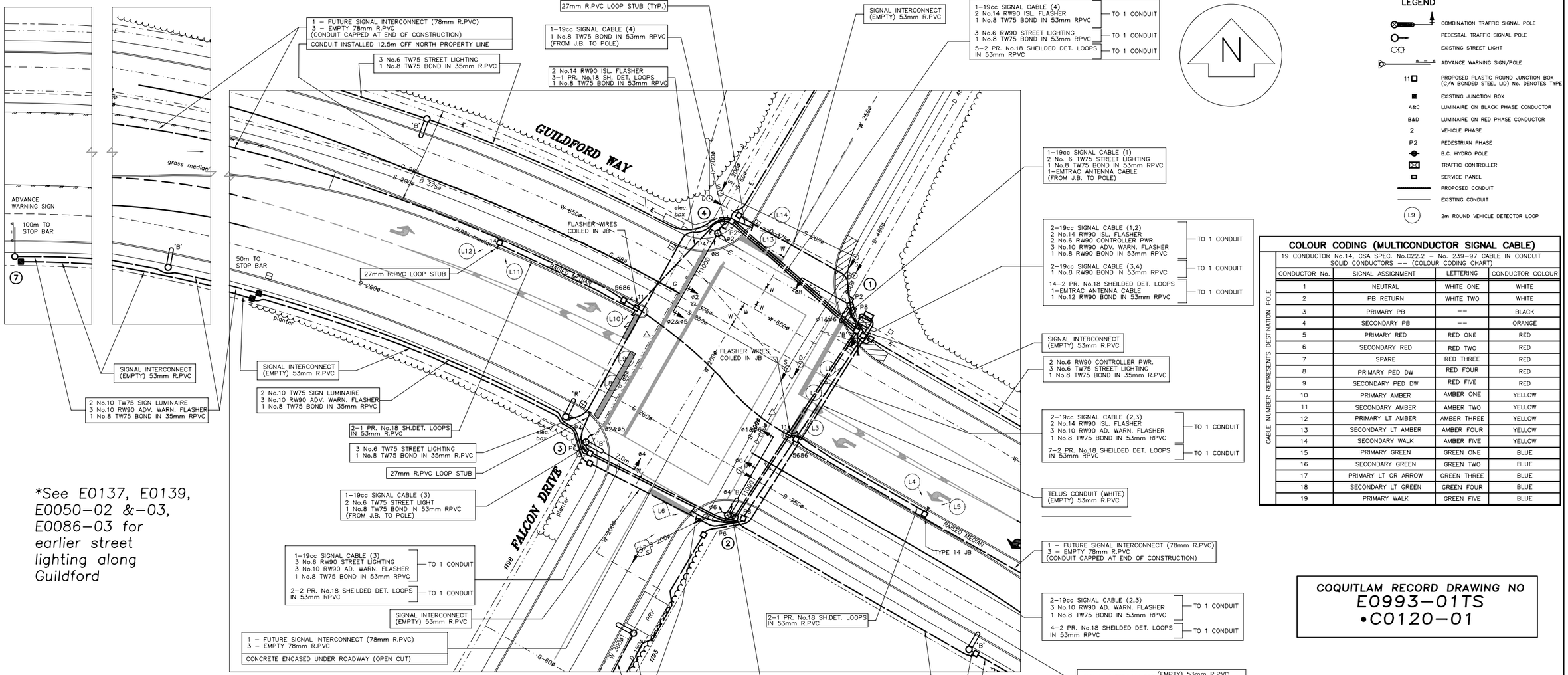
CITY OF COQUITLAM

COMMUNICATIONS INTERCONNECT DESIGN
GUILDFORD WAY CORRIDOR
GUILDFORD WAY FROM PORT MOODY TO PINETREE WAY

COMMUNICATIONS CONDUIT INSTALL 2002

Scale 1:500	Mun. Proj. No. ??–??	Drwg. No.	
Drawn LCP	Mun. Drwg. No.	1	
Designed LCP			
P.W. P.U.	Job No. 2002–09	Of 4	
Approved	Date MAR 2002	Revision 2	

ACAD GUILDFORD COMM INTERCONNECT.DWG SEP 25, 2002 16:25



*See E0137, E0139, E0050–02 &–03, E0086–03 for earlier street lighting along Guildford

*SUPERCEDES E0416–01TS & –02TS Traffic Signal by Shaflik, Sept 17/91

SITE PLAN
1:250

Note:
Location of existing utilities shown are approximate and should be confirmed by pipe locator and manual digging. All or any existing structures are not necessarily shown.

*See CEDMS E0992–01/C0119–01 for Comm. Duct Interconnect Installation

LEGEND

- COMBINATION TRAFFIC SIGNAL POLE
- PEDESTAL TRAFFIC SIGNAL POLE
- EXISTING STREET LIGHT
- ADVANCE WARNING SIGN/POLE
- 11 — PROPOSED PLASTIC ROUND JUNCTION BOX (C/W BONDED STEEL LID) No. DENOTES TYPE
- EXISTING JUNCTION BOX
- A&C — LUMINAIRE ON BLACK PHASE CONDUCTOR
- B&D — LUMINAIRE ON RED PHASE CONDUCTOR
- 2 — VEHICLE PHASE
- P2 — PEDESTRIAN PHASE
- B.C. HYDRO POLE
- TRAFFIC CONTROLLER
- SERVICE PANEL
- PROPOSED CONDUIT
- EXISTING CONDUIT
- L9 — 2m ROUND VEHICLE DETECTOR LOOP

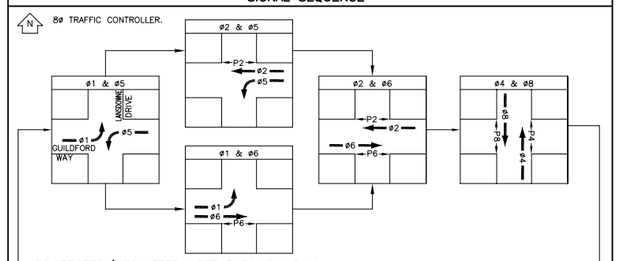
COLOUR CODING (MULTICONDUCTOR SIGNAL CABLE)

19 CONDUCTOR No.14, CSA SPEC. No.C22.2 – No. 239–97 CABLE IN CONDUIT
SOLID CONDUCTORS –– (COLOUR CODING CHART)

CABLE NUMBER REPRESENTS DESTINATION POLE

CONDUCTOR No.	SIGNAL ASSIGNMENT	LETTERING	CONDUCTOR COLOUR
1	NEUTRAL	WHITE ONE	WHITE
2	PB RETURN	WHITE TWO	WHITE
3	PRIMARY PB	––	BLACK
4	SECONDARY PB	––	ORANGE
5	PRIMARY RED	RED ONE	RED
6	SECONDARY RED	RED TWO	RED
7	SPARE	RED THREE	RED
8	PRIMARY PED DW	RED FOUR	RED
9	SECONDARY PED DW	RED FIVE	RED
10	PRIMARY AMBER	AMBER ONE	YELLOW
11	SECONDARY AMBER	AMBER TWO	YELLOW
12	PRIMARY LT AMBER	AMBER THREE	YELLOW
13	SECONDARY LT AMBER	AMBER FOUR	YELLOW
14	SECONDARY WALK	AMBER FIVE	YELLOW
15	PRIMARY GREEN	GREEN ONE	BLUE
16	SECONDARY GREEN	GREEN TWO	BLUE
17	PRIMARY LT GR ARROW	GREEN THREE	BLUE
18	SECONDARY LT GREEN	GREEN FOUR	BLUE
19	PRIMARY WALK	GREEN FIVE	BLUE

SIGNAL SEQUENCE



This photocopy is supplied by the City of Coquitlam for general information only and the accuracy of the information contained on the document is in no way guaranteed by the City.

COQUITLAM RECORD DRAWING NO
E0993–01TS
•C0120–01

I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THESE WORKS ARE COMPLETE AND WERE CONSTRUCTED AS ON THIS 'RECORD DRAWING'.

LCP SIGNAL MANAGEMENT INC.

SIGNED : _____ Larry C. Parks

DATE : _____

LCP Signal Management Inc.
1447 Gabriola Drive
Coquitlam, B.C.
V3E 2C6
Ph: (604)–942–3631
Fax: (604)–945–9809

LEGEND

	EXISTING	PROPOSED		EXISTING	PROPOSED		EXISTING	PROPOSED		EXISTING	PROPOSED
Edge of pavement			Drainage sewer and MH	D	D	Sanitary sewer and MH	S	S	U/G signal/light duct	L	L
Asphalt curb			Drainage sewer capped end	D	D	Sanitary sewer, capped end	S	S	Streetlight, davit		
Concrete sidewalk			Catch basin, top inlet			Sanitary sewer, forcemain	FS	FS	Streetlight, post top		
Concrete curb			Catch basin, side inlet			U/G electrical duct and MH	E	E	Traffic signal pole		
Watermain and valve	W	W	Catch basin, round			Utility pole			Traffic signal post		
Watermain, capped end	W	W	Swale			Utility pole with light			Traffic controller		
Hydrant			Ditch			Junction box	J	J	Service box		
Water blowoff			Culvert			U/G telephone and MH	T	T	Signal fixture		
Water temporary blowoff			Inlet Structure			U/G gas main and valve	G	G	Traffic street sign		

REV. No.	DATE	REVISION
6		
5		
4		
3	JAN25/04	RECORD DRAWING
2	SEP20/01	ISSUED FOR TENDER
1	AUG28/01	SIGNAL MODS PRELIM DESIGN REVIEW
–	JAN 2001	UPDATE DRAWING TO NEW FORMAT

Destroy All Prints Bearing Rev. No. less than one indicated above

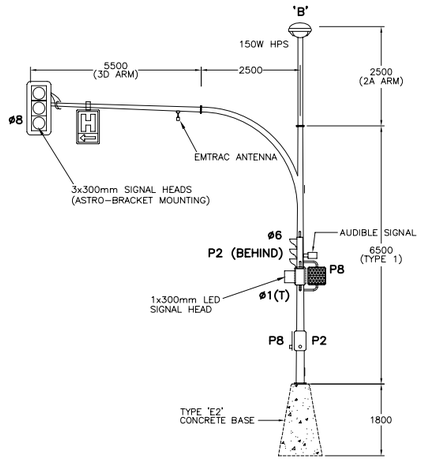
CITY OF COQUITLAM — Operations

DESIGNED – L.C.P.
DRAWN – L.C.P.
METRIC SCALE – 1:250
CHECKED – L.R.M.
DATE – JAN 08/01

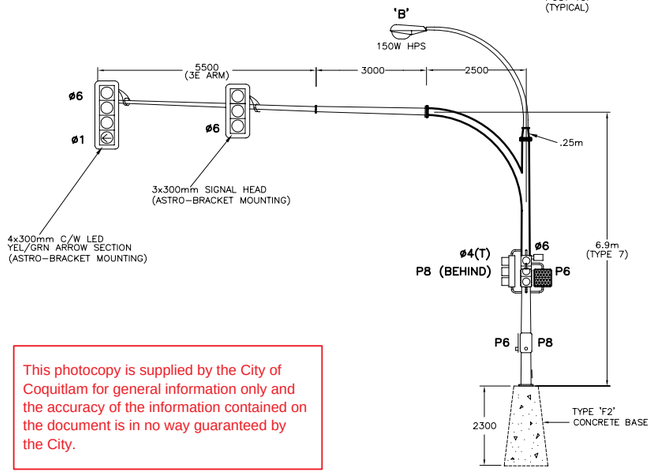
TRAFFIC SIGNAL UPGRADE GUILDFORD WAY @ FALCON DRIVE PLAN VIEW

DWG FILE: PJ2000–43
SHEET 1 OF 2
REVISION NO. 3

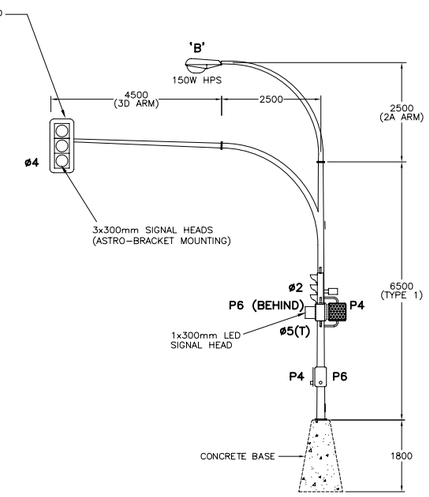
ACAD Falc–Guild Signal Sht 1 REC.dwg JAN 25, 2004 15:30 LCP



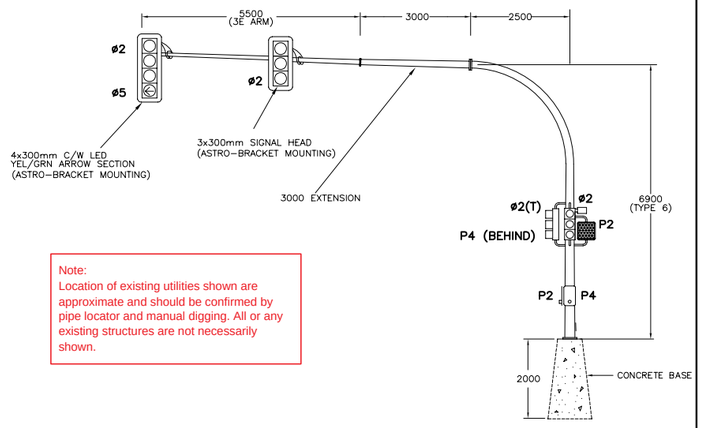
①



②



③

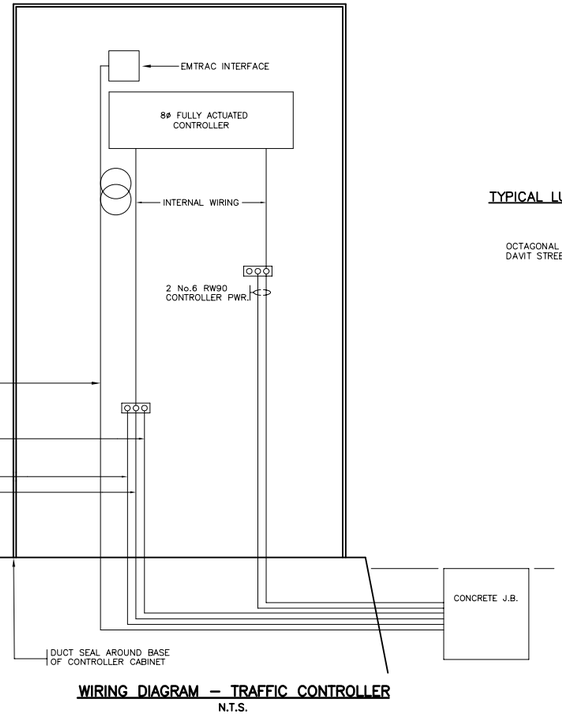


④

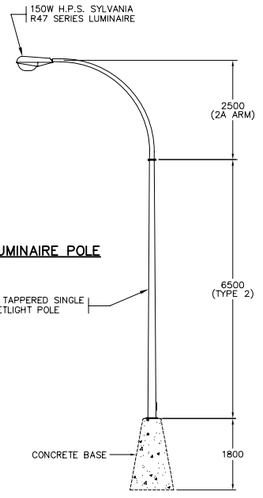
Note:
Location of existing utilities shown are approximate and should be confirmed by pipe locator and manual digging. All or any existing structures are not necessarily shown.

This photocopy is supplied by the City of Coquitlam for general information only and the accuracy of the information contained on the document is in no way guaranteed by the City.

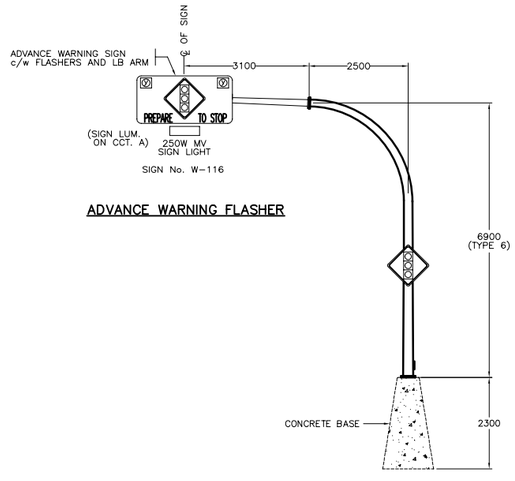
ELEVATIONS
1:75



WIRING DIAGRAM – TRAFFIC CONTROLLER
N.T.S.



TYPICAL LUMINAIRE POLE



ADVANCE WARNING FLASHER

⑦

CHECK BEFORE YOU DIG

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH OCCUR DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

CHECK OVERHEAD WIRING

THE CONTRACTOR SHALL ENSURE THAT ALL POLES AND APPURTENANCES WILL BE A MINIMUM OF 3.0m CLEAR OF OVERHEAD PRIMARY WIRING AND 0.3m CLEAR OF OVERHEAD SECONDARY WIRING PRIOR TO INSTALLING POLE BASES.

INTERSECTION DETECTOR LOOPS

LOOP CONNECTIONS

LOOP No.	DET. CHAN.	ø ASSIGN.	MOVEMENT	CAB. TERM	DELAY	EXTEND
L1	1	2	W.B. CURB	L1A,L1B	–	–
L2	2	2	W.B. CENT.	L2A,L2B	–	–
L3	3	5	W.B. LT LANE	L3A,L3B	–	–
L4	4	5	W.B. LT LANE	L4A,L4B	–	–
L5	5	5	W.B. LT LANE	L5A,L5B	–	–
L6	6	8	N.B. CURB	L6A,L6B	–	–
L7	7	8	N.B. CURB	L7A,L7B	–	–
L8	8	6	E.B. CURB	L8A,L8B	–	–
L9	9	6	E.B. CURB	L9A,L9B	–	–
L10	10	1	E.B. LT LANE	L10A,L10B	–	–
L11	11	1	E.B. LT LANE	L11A,L11B	–	–
L12	12	1	E.B. LT LANE	L12A,L12B	–	–
L13	13	4	S.B. CURB	L13A,L13B	–	–
L14	14	4	S.B. CURB	L14A,L14B	–	–

COQUITLAM RECORD DRAWING NO
E0993-02TS
•C0120-02

I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THESE WORKS ARE COMPLETE AND WERE CONSTRUCTED AS ON THIS 'RECORD DRAWING'.

LCP SIGNAL MANAGEMENT INC.

SIGNED : _____
Larry C. Parks

DATE : _____

LCP Signal Management Inc.
1447 Gabriola Drive
Coquitlam, B.C.
V3E 2C6
Ph: (604)-942-3631
Fax: (604)-945-9809

REV. No.	DATE	REVISION
6		
5		
4		
3	JAN25/04	RECORD DRAWING
2	SEP20/01	ISSUED FOR TENDER
1	AUG28/01	SIGNAL MODS PRELIM DESIGN REVIEW
–	JAN 2001	UPDATE DRAWING TO NEW FORMAT

Destroy All Prints Bearing Rev. No. less than one indicated above

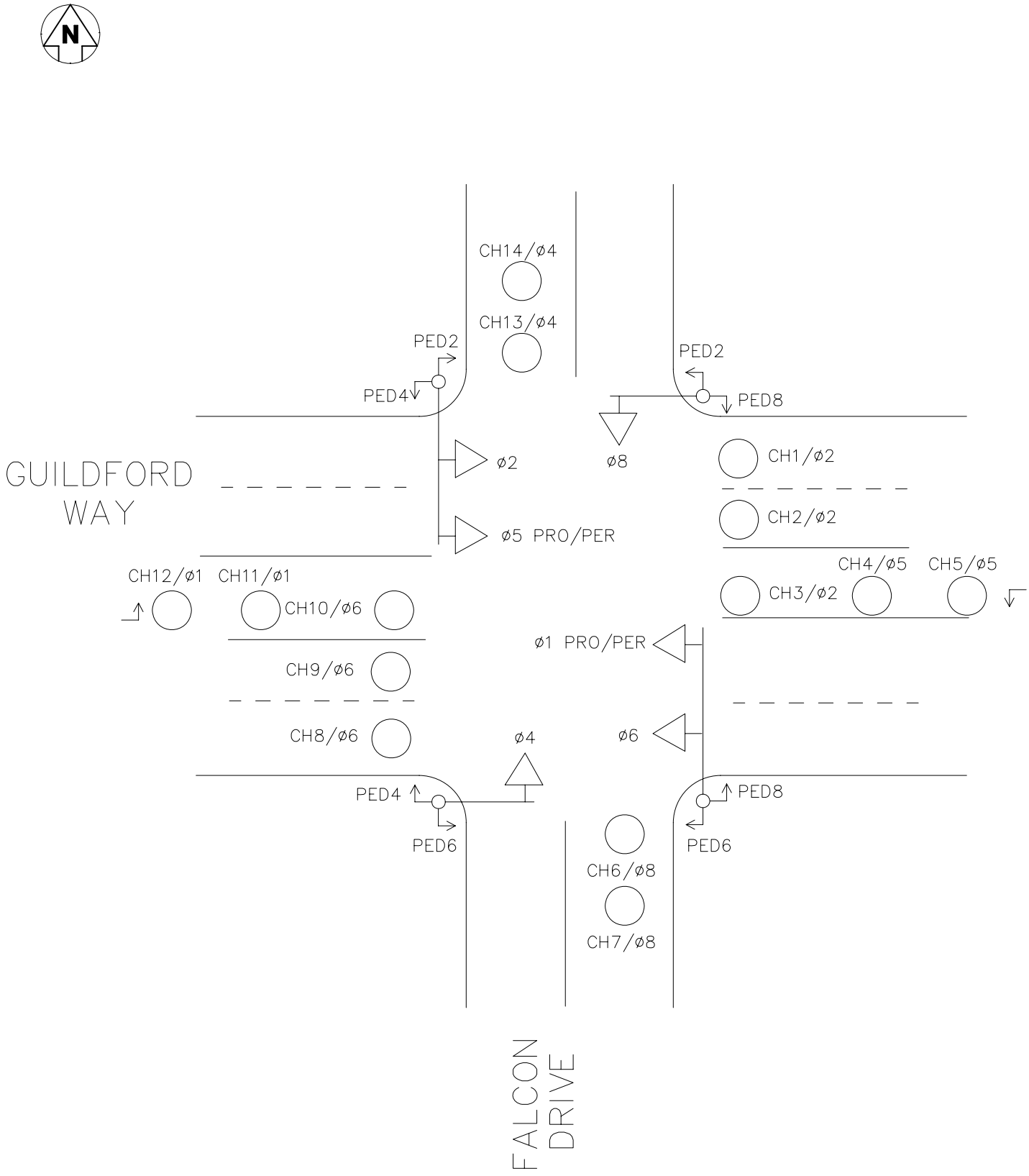
CITY OF COQUITLAM — Operations

DESIGNED – L.C.P.
DRAWN – L.C.P.
METRIC SCALE – 1:250
CHECKED – L.R.M.
DATE – JAN 08/01

TRAFFIC SIGNAL UPGRADE GUILDFORD WAY @ FALCON DRIVE DETAILS

DWG FILE: PJ2000-43
SHEET 2 OF 2
REVISION NO. 3

ACAD Folc-Guild Signal Sht 2 REC.dwg JAN 25, 2004 15:30 LCP

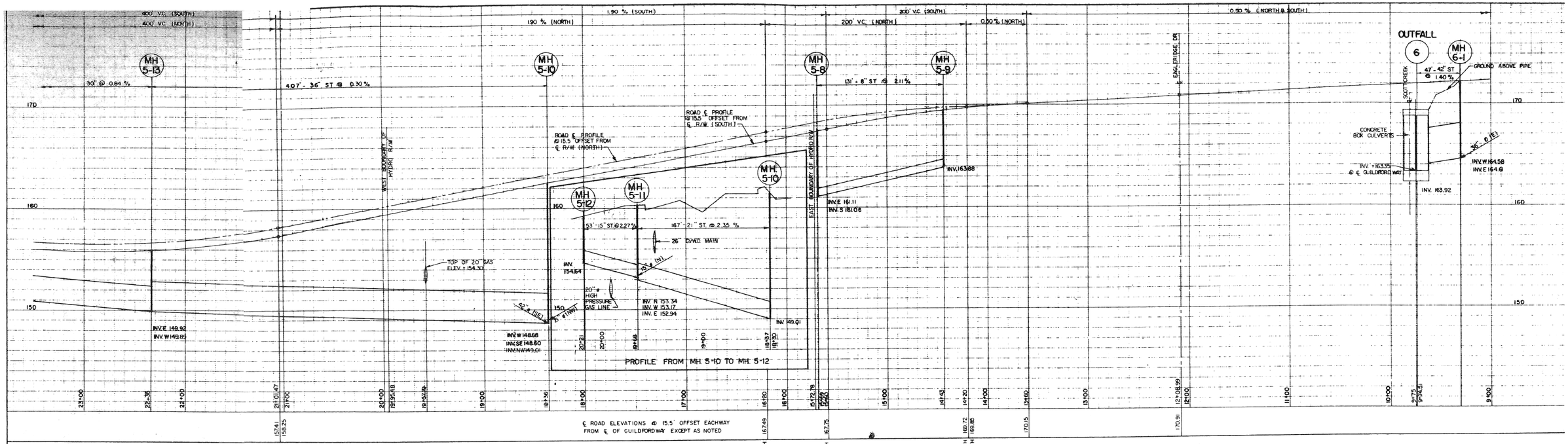


TSS 7000

LCP Signal Management Inc.
1447 Gabriola Drive
Coquitlam, B.C.
V3E 2C6
Ph: 604-942-3631
Fax: 604-945-9809

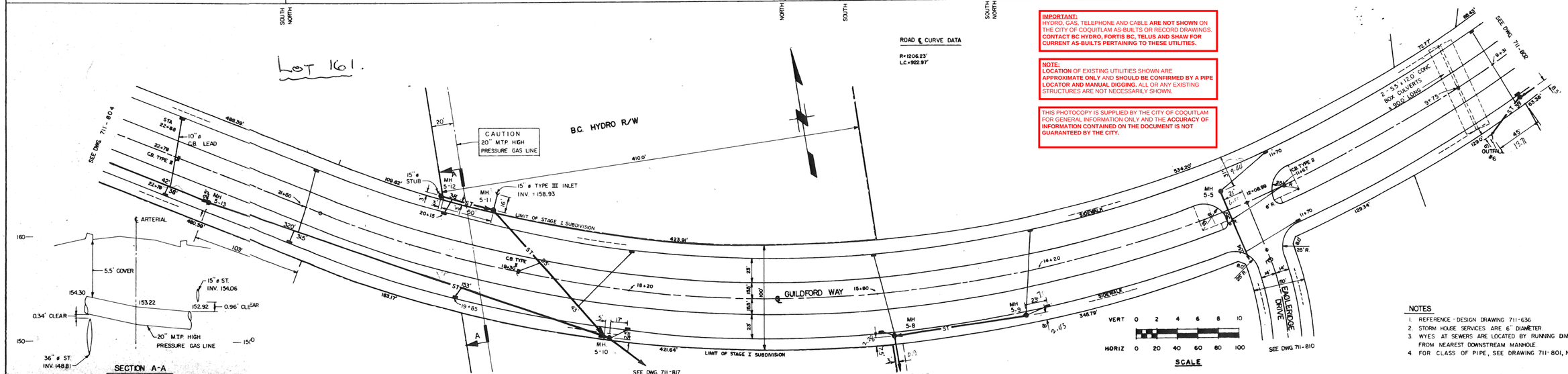
CITY OF COQUITLAM
Intersection Graphics – Basic Design Layout
GUILDFORD WAY @ FALCON DRIVE

Guildford @Falcon-Basic TSS7000.dwg LCP Apr 08, 2006 10:45



Lot 161.

ROAD ℄ CURVE DATA
R = 1206.23'
LC = 922.97'



IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

NOTES
1. REFERENCE - DESIGN DRAWING 711-636
2. STORM HOUSE SERVICES ARE 6" DIAMETER.
3. WYES AT SEWERS ARE LOCATED BY RUNNING DIMENSION FROM NEAREST DOWNSTREAM MANHOLE.
4. FOR CLASS OF PIPE, SEE DRAWING 711-801, NOTE # 1

NO.	REVISION	DATE	BY	NO.

REVISION	DATE	BY

BACM

B.A.C.M. DEVELOPMENT CORPORATION LIMITED

EAGLE RIDGE SUBDIVISION STAGE I
STORM SEWER AS CONSTRUCTED
GUILDFORD WAY STA. 9+00 TO 23+50

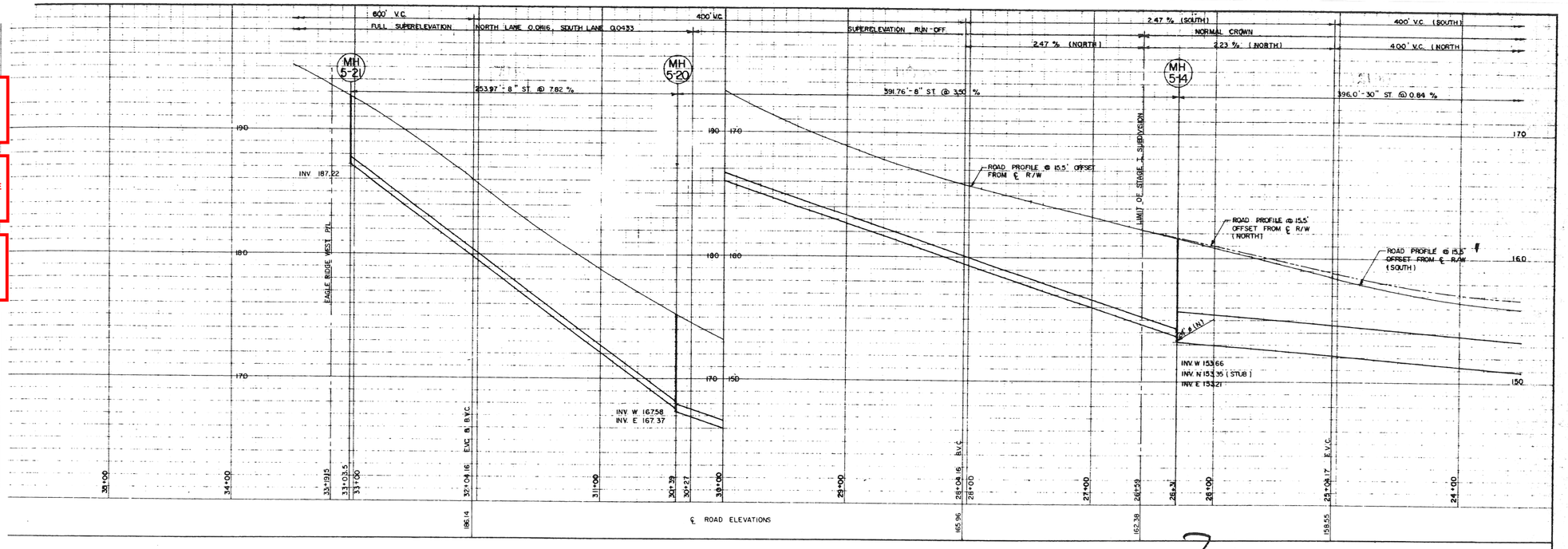
DESIGN - C.L.M.	FILE NO.
DRAWN - F.K.Y.	DRAWING NO. 711-803 REV
CHECKED - C.F.F.	
DATE JAN. 25 1978	SCALE AS SHOWN

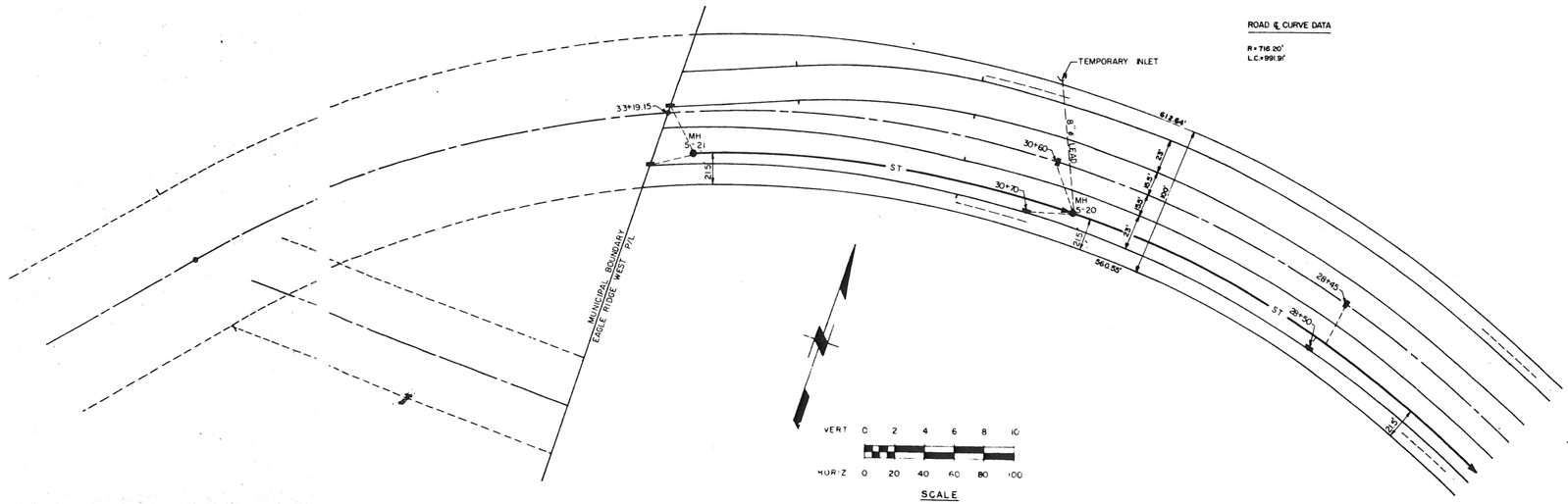
D-399-3

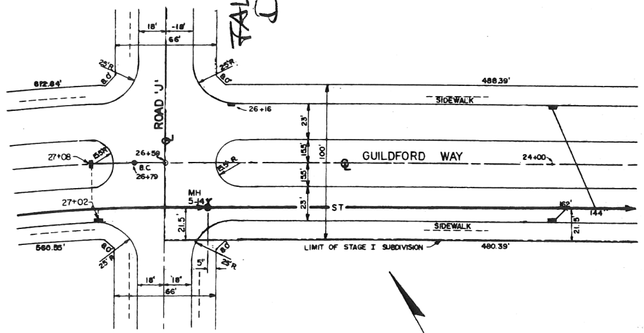
IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**







NOTES
1. REFERENCE - DESIGN DRAWING 711-637.
2. STORM HOUSE SERVICES ARE 6" DIAMETER.
3. WYES AT SEWERS ARE LOCATED BY RUNNING DIMENSION FROM NEAREST DOWNSTREAM MANHOLE.
4. FOR CLASS OF PIPE, SEE DRAWING 711-801, NOTE # 1

NO	REVISION	DATE	BY
NO	REVISION	DATE	BY

BACM

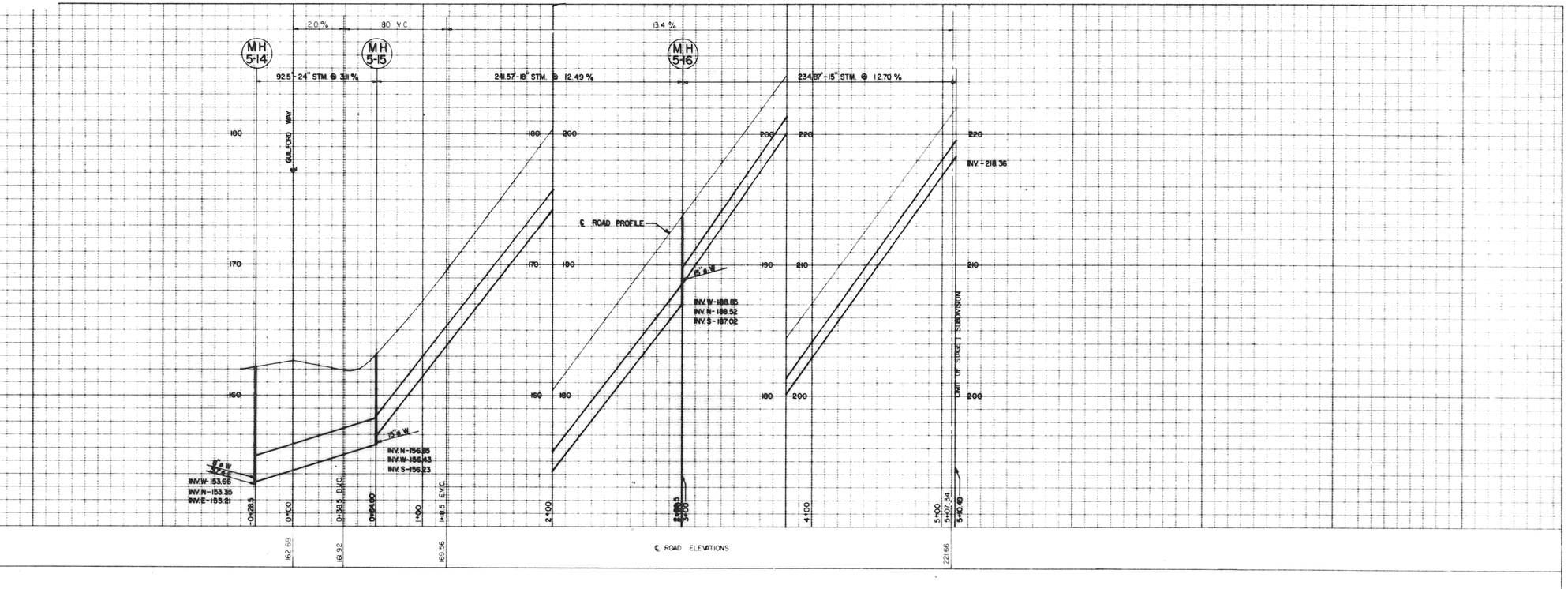
B.A.C.M. DEVELOPMENT CORPORATION LIMITED

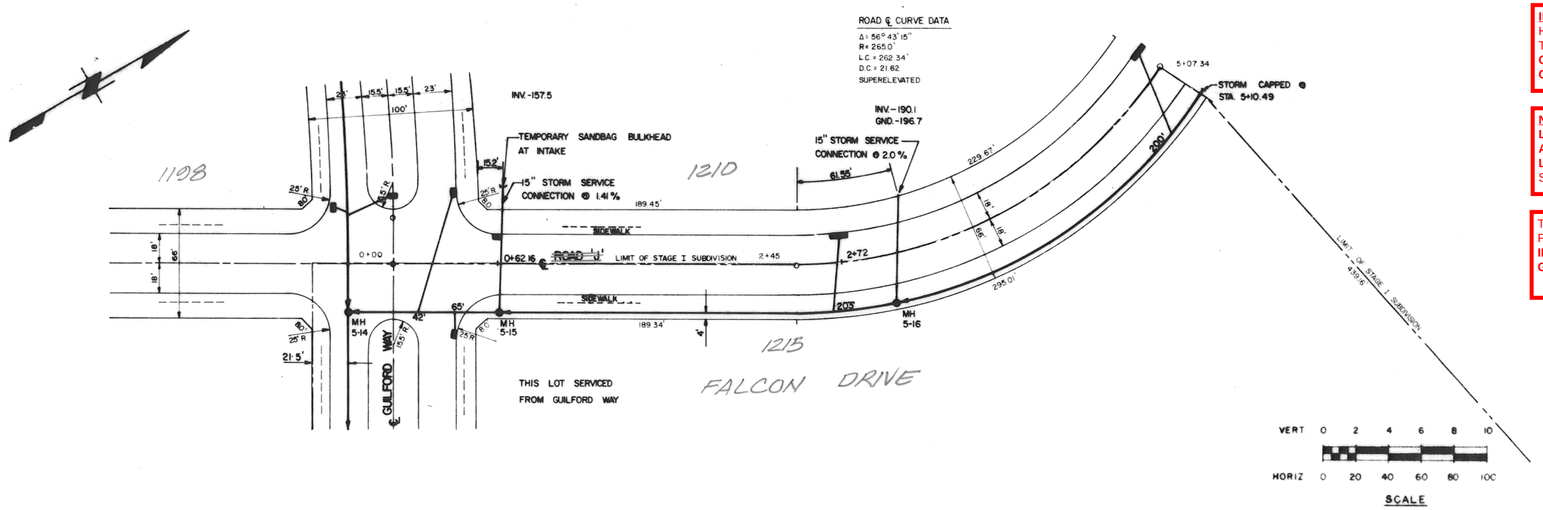
EAGLE RIDGE SUBDIVISION STAGE I
STORM SEWER AS CONSTRUCTED
GUILDFORD WAY STA. 23+50 TO 33+19.15

DESIGN - C.L.M.
DRAWN - F.K.Y.
CHECKED - C.F.F
DATE JAN. 26 1978
SCALE AS SHOWN

FILE NO.
DRAWING NO. 711-804
REV.

D-399-4





IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

DATE	BY	NO	REVISION	DATE	BY

B.A.C.M. DEVELOPMENT CORPORATION LIMITED

EAGLE RIDGE SUBDIVISION STAGE I
STORM SEWER AS CONSTRUCTED
~~ROAD "J"~~ FALCON DR.

DESIGN - CLM.
DRAWN - TSC.
CHECKED - F.C.F.
DATE
SCALE AS SHOWN

FILE NO.
DRAWING NO. | REV
711-819

D-441

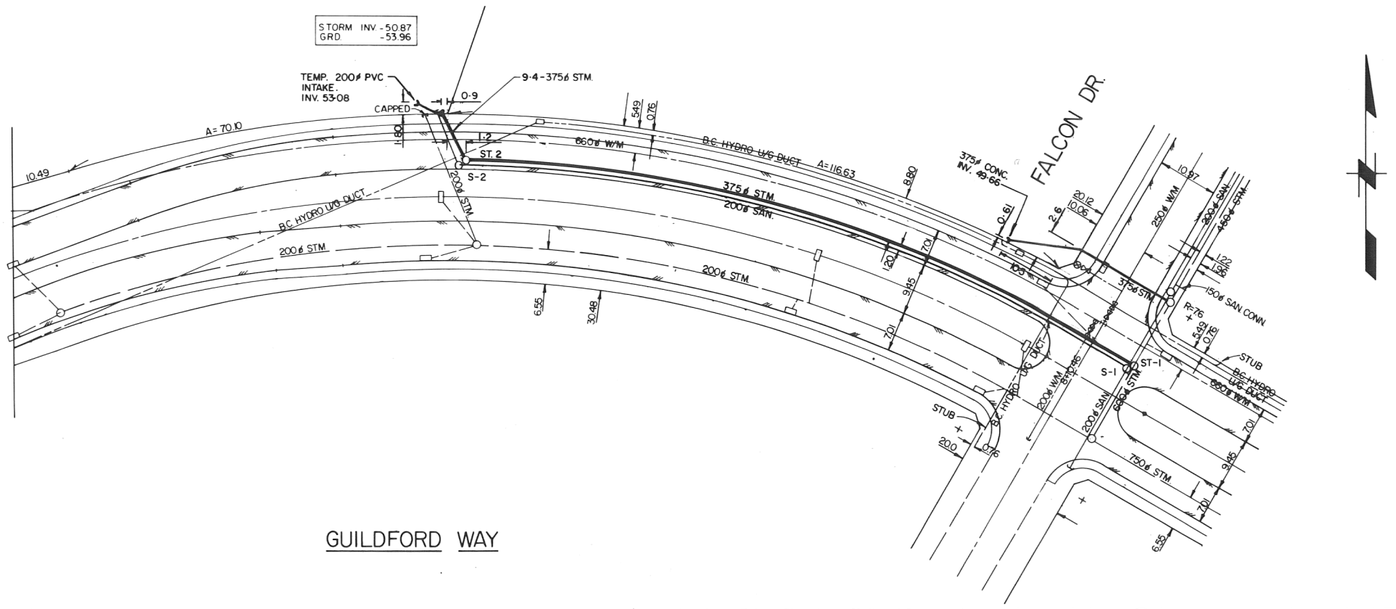
D-543

THIS PLAN USES GVS&DD ELEVATION DATUM IN METRIC
TO CONVERT TO ELEVATION ABOVE GEODETIC DATUM IN
METRES, USE THE FOLOWWING FORMULA:
= 91.37 x 0.3048m

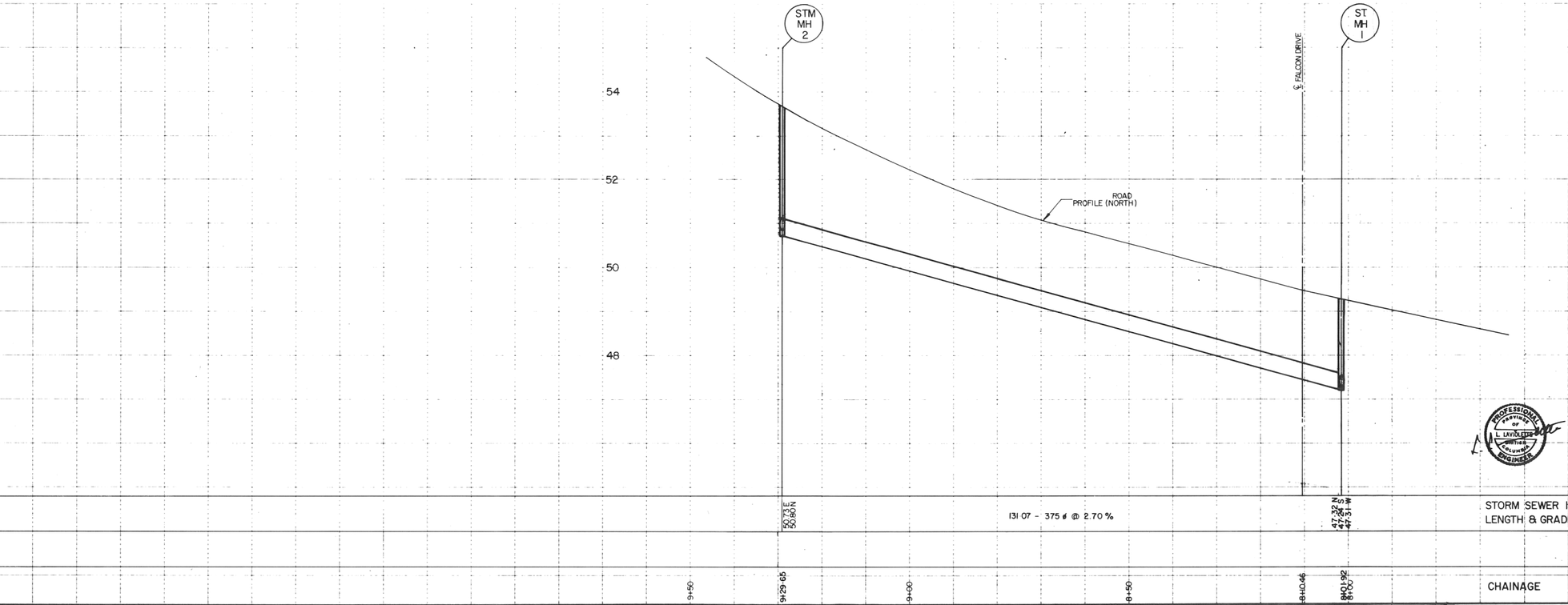
IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**



GUILDFORD WAY



NO	REVISION	DATE	BY
2	AS CONSTRUCTED	3-4-81	J.L.H.
1	GENERAL REVISION, EX. VALVES REVISED	30-10-80	C.L.W.

DESIGN C.L.W.
DRAWN J.B.
CHECKED F.C.F.
DATE JULY 31, 1980

EAGLE RIDGE STAGE 5A
STORM SEWER DESIGN
GUILDFORD WAY
AS CONSTRUCTED

GENSTAR DEVELOPMENT COMPANY
A MEMBER OF THE GENSTAR GROUP OF COMPANIES

SCALE HORIZ. 1:500 VERT. 1:50
DRAWING NO 715-641
SHEET ___ OF ___ REVISION 2

D-543

D-544

NOTES
1) ALL CHAINAGES AND LENGTHS ARE IN METRIC, PIPE SIZES ARE IN MILLIMETRES.
2) ALL CURB RADII ARE 8·0m UNLESS OTHERWISE NOTED.
3) FOR ROAD & STORM NOTES SEE DWG. 714-615.
4) GEODETIC ELEVATION= ELEVATION – 27.85 METERS

583 584 585

6-70-375ø STM. STUB CAPPED @ ℄ @ 5.67%
INV. 46.2
GRD. 48.8

ST-5

450ø STM.

C.B.'s @ STA. 5+33

C.B. @ STA. 5+26
INV. 46.49
GRD. 48.6

496

C.B.'s @ STA. 5+53

546
INV. 46.55
GRD. 48.8

ST-6

150ø P.V.C. DRAIN

C.B.'s @ STA. 5+85

600ø STM.

250ø SAN.

200ø SAN.

MATCH LINE STA. 3+35
SEE DRAWING 714-640

485
INV. 45.48
GRD. 47.6

486
INV. 45.63
GRD. 48.07

487
INV. 45.93
GRD. 48.50

488

489
INV. 45.76
GRD. 48.38

490
INV. 46.26
GRD. 48.45

491
INV. 46.23
GRD. 48.3

492
INV. 46.37
GRD. 48.5

493
INV. 46.35
GRD. 48.4

494
INV. 46.50
GRD. 48.5

495
INV. 46.39
GRD. 48.6

C.B. @ STA. 3+78

PIPE DEFLECTION DATA
STA. 3+46·59 TO 4+75
PIPE LENGTH 2·50 m ea.
OFFSET 31 mm
RADIUS 203·30 m
L.C. 130·53 m

PIPE DEFLECTION DATA
STA. 4+75 TO 5+67·10
PIPE LENGTH 2·5 m ea.
OFFSET 31 mm
RADIUS 203·30 m
L.C. 93·62 m

ROAD ℄ CURVE DATA
Δ = 63° 10' 15"
R = 200·00
Lc = 220·51

SEE DRAWING 714-643

HARRIER DRIVE

FALCON DRIVE

PRESSURE REDUCING STATION SEE DWG. 714-770

GUILDFORD WAY

BC HYDRO UG DUCT

375ø STM.

300ø STM.

200ø STM.

760ø STM.

STA. 6+45·94

IMPORTANT:
HYDRO, GAS AND TELEPHONE **ARE NOT LOCATED** ON THE CITY OF COQUITLAM AS-BUILTS.
CONTACT BC HYDRO, TERASEN GAS AND TELUS FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN **ARE APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIES BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND **THE ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NO WAY GUAARENTEED BY THE CITTY.**

MATCH LINE STA. 3+35

1·0 % | 60 V.C. | -1·0% | 100 V.C. | 1·39 % | 2 %

STM. 5 | STM. 6

℄ HARRIER DR. | ℄ GUILDFORD WAY

℄ ROAD

1200ø M.H. | 200ø SAN. | 150ø WM.

100ø BACKWATER VALVE

60.0 - 150ø P.V.C. DRAIN LINE

INV. 46.26

STA. 6+39·40 EL. 46·40
PRESSURE REDUCING STATION

48 | 46 | 44

174·12 - 600ø @ 0·44%

45.71 S
45.76 N
45.82 W

106·52 - 450ø @ 0·47 %

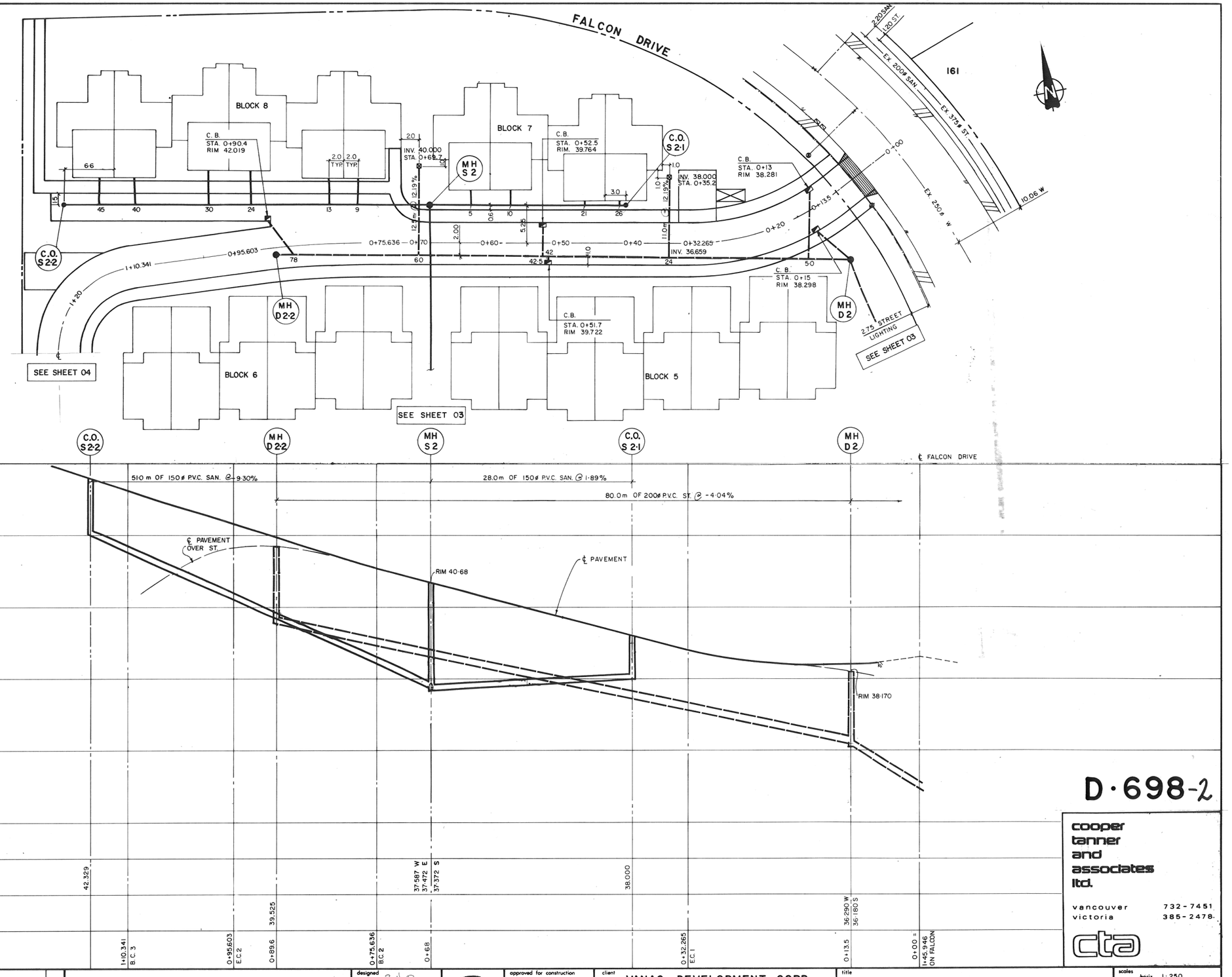
| | | |

D-698

IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**



SANITARY INVERTS	42.329	37.587 W 37.472 E 37.372 S 38.000 36.290 W 36.180 S
STORM INVERTS		39.525
STATION	1+10.341 B.C.3	0+95.603 E.C.2 · 0+89.6 · 0+75.636 B.C.2 · 0+68 · 0+32.265 E.C.1 · 0+13.5 · 0+00 = 1+45.946 ON FALCON

D·698-2

cooper tanner and associates ltd.
vancouver 732-7451
victoria 385-2478
cta

no.	date	by	revisions	chk'd.
2	84 03	FSA	RECORD DRAWING	
			REVISION AS PER COQUITLAM REQUIREMENTS	

Allan & Ashford Ltd.
consulting engineers surveyors

designed B.H.P
drawn
checked
date MARCH, 1982

PROFESSIONAL ENGINEER OF PROVINCE OF BRITISH COLUMBIA PAUL C. LEE

approved for construction
approval date

client VANAC DEVELOPMENT CORP.
project FERNLEAF PLACE COQUITLAM, B.C.

title STORM & SANITARY STA. 0+00 to 1+18.573

scales horiz. 1:250 vert. 1:50

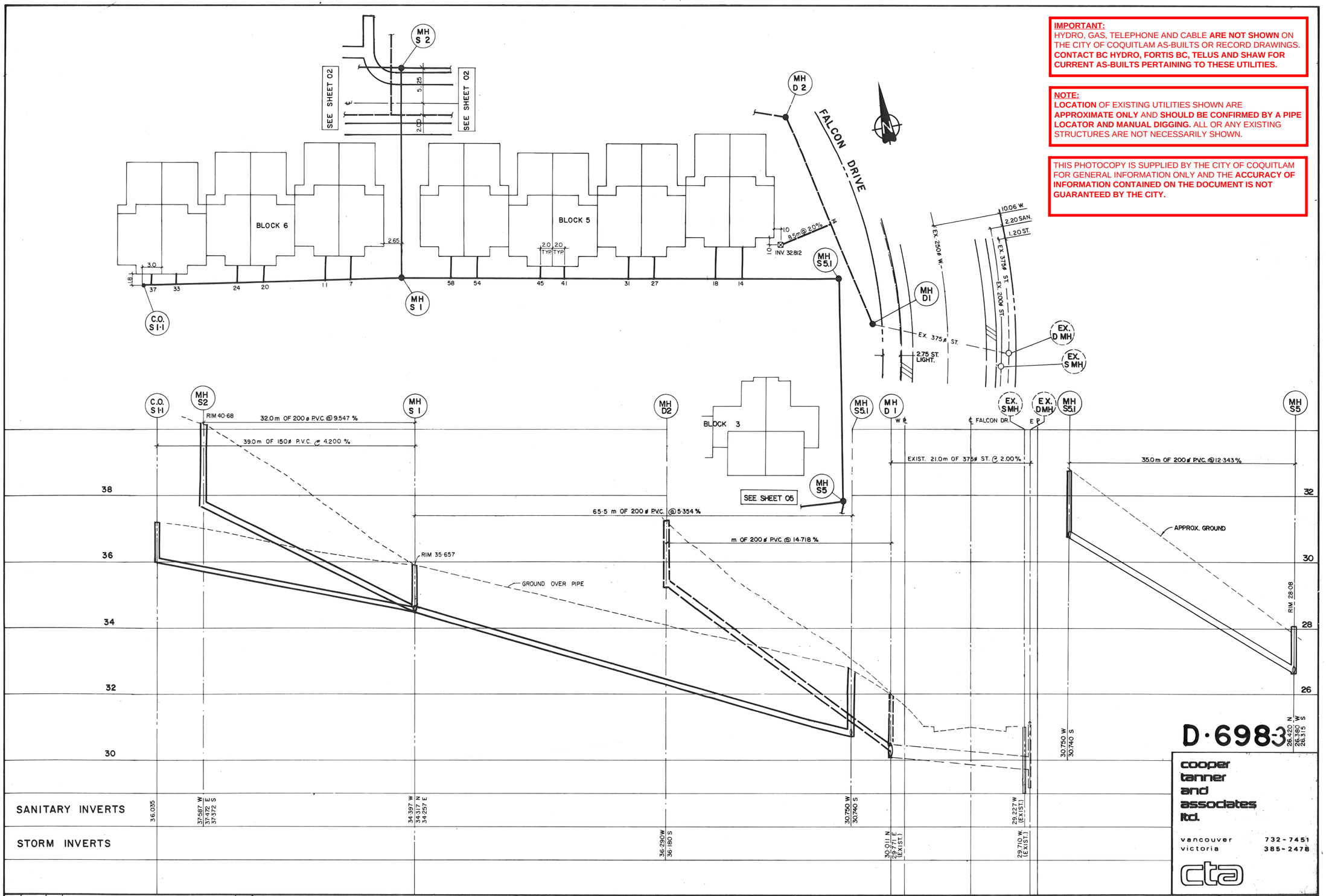
drawing no.		sht.	rev.
2634	AC	02	2

D-698

IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**



D·6983

cooper tanner and associates ltd.
vancouver 732-7451
victoria 385-2478
cta

rev.	date	by	revisions	chk'd
2	84 03	FSA	RECORD DRAWING	
1	83 04	PCL	GENERAL REVISION AS PER COQUITLAM REQUIREMENTS	

ACAD 4827 A1 — A.A.

Allan & Ashford Ltd.
consulting engineers surveyors

designed B.A.P.
drawn
checked
date MARCH, 1982

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA PAUL C. LEE

approved for construction
approval date

client VANAC DEVELOPMENT CORP.
project FERNLEAF PLACE COQUITLAM, B. C.

title STORM & SANITARY SOUTH OF PHASE I

scales horiz. 1:250 vert. 1:50

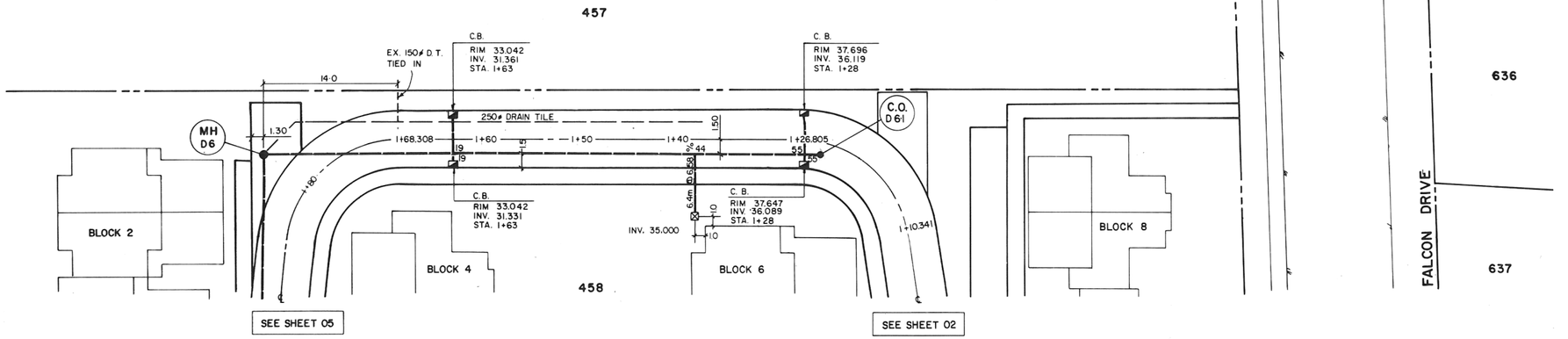
drawing no.		sht.	rev.
2634	AC	03	2

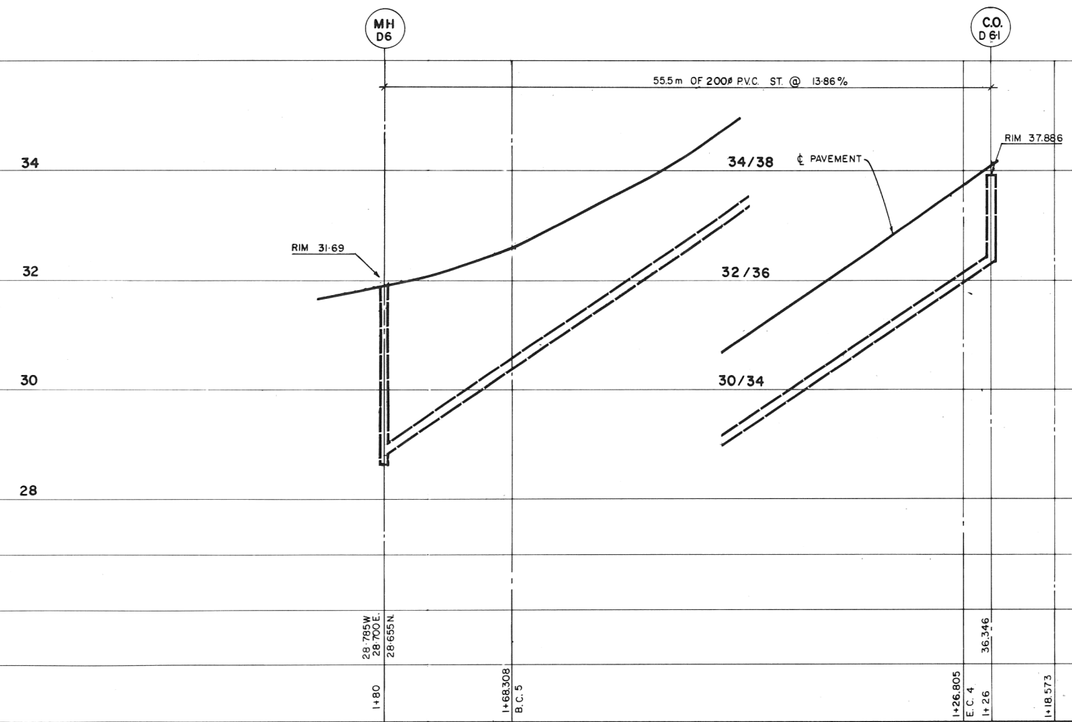
D-698

IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**





D·698-4

cooper tanner and associates ltd.
vancouver 732-7451
victoria 385-2478

rev.	date	by	revisions	chk'd.
2	84 03	FSA	RECORD DRAWING	
1	83 04	PCL	GENERAL REVISION AS PER COQUITLAM REQUIREMENTS	

Allan & Ashford Ltd.
consulting engineers surveyors

designed B.H.P.
drawn
checked
date MARCH, 1982

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA PAUL C. LEE

approved for construction
approval date

client VANAC DEVELOPMENT CORP.
project FERNLEAF PLACE COQUITLAM, B.C.

title STORM & SANITARY STA. 1+18.573 to 1+85.664

scales horiz. 1:250 vert. 1:50

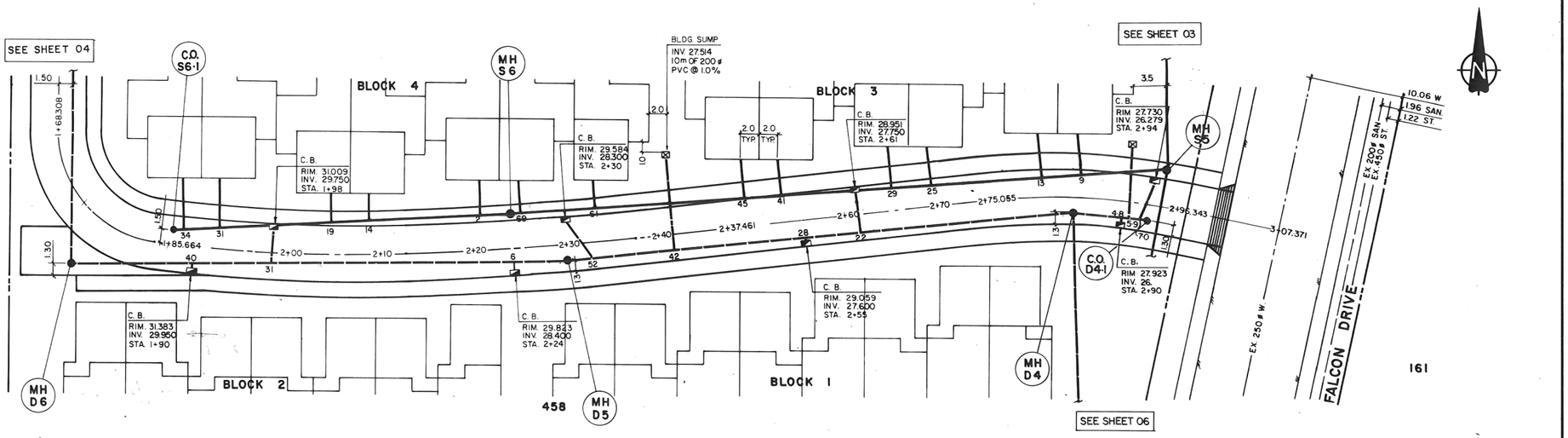
drawing no.		sht.	rev.
2634	AC	04	2

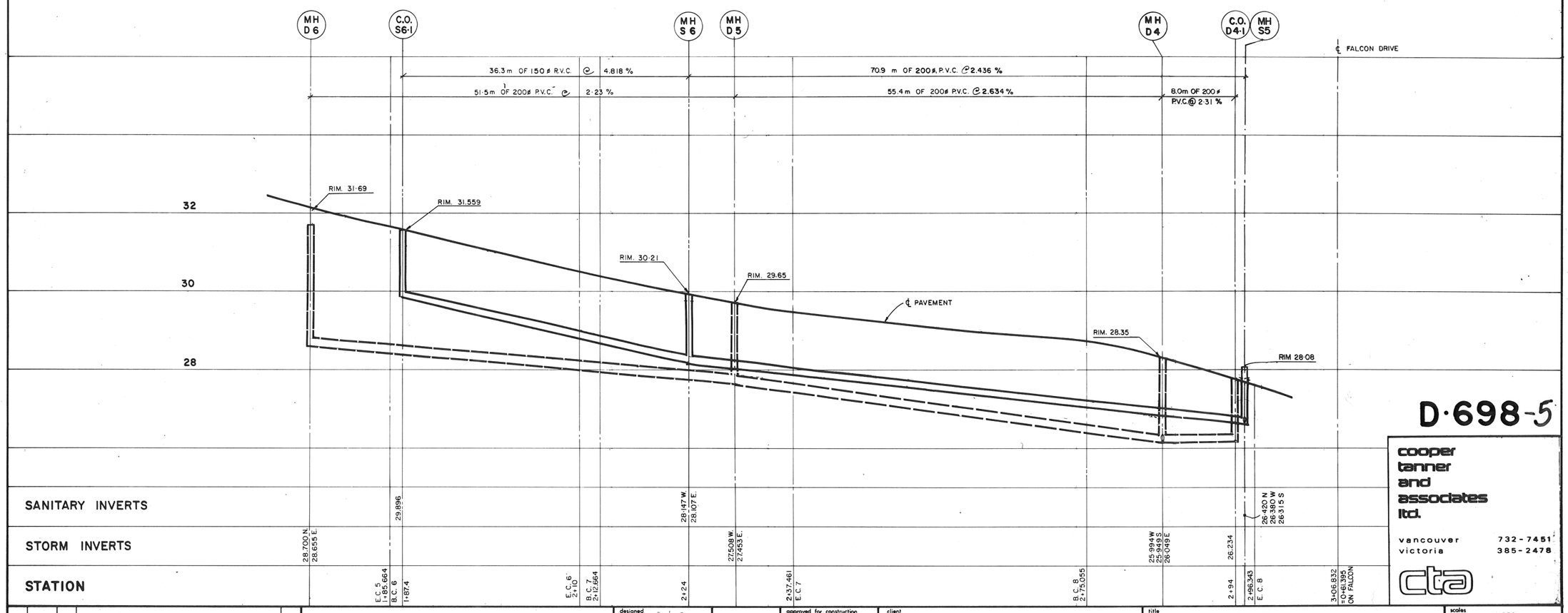
D-698

IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**





D-698-5

cooper tanner and associates ltd.
vancouver 732-7451
victoria 385-2478

no.	date	by	revisions	chk'd.
2	84 03	FSA	RECORD DRAWING	
1	83 04	PCL	GENERAL REVISION AS PER COQUITLAM REQUIREMENTS	

Allan & Ashford Ltd. consulting engineers surveyors

designed B.H.P
drawn
checked
date MARCH, 1982

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA PAUL C. LEE

approved for construction
approval date

client VANAC DEVELOPMENT CORP.
project FERNLEAF PLACE COQUITLAM, B.C.

title STORM & SANITARY STA. 1+86.163 to 3+06.832

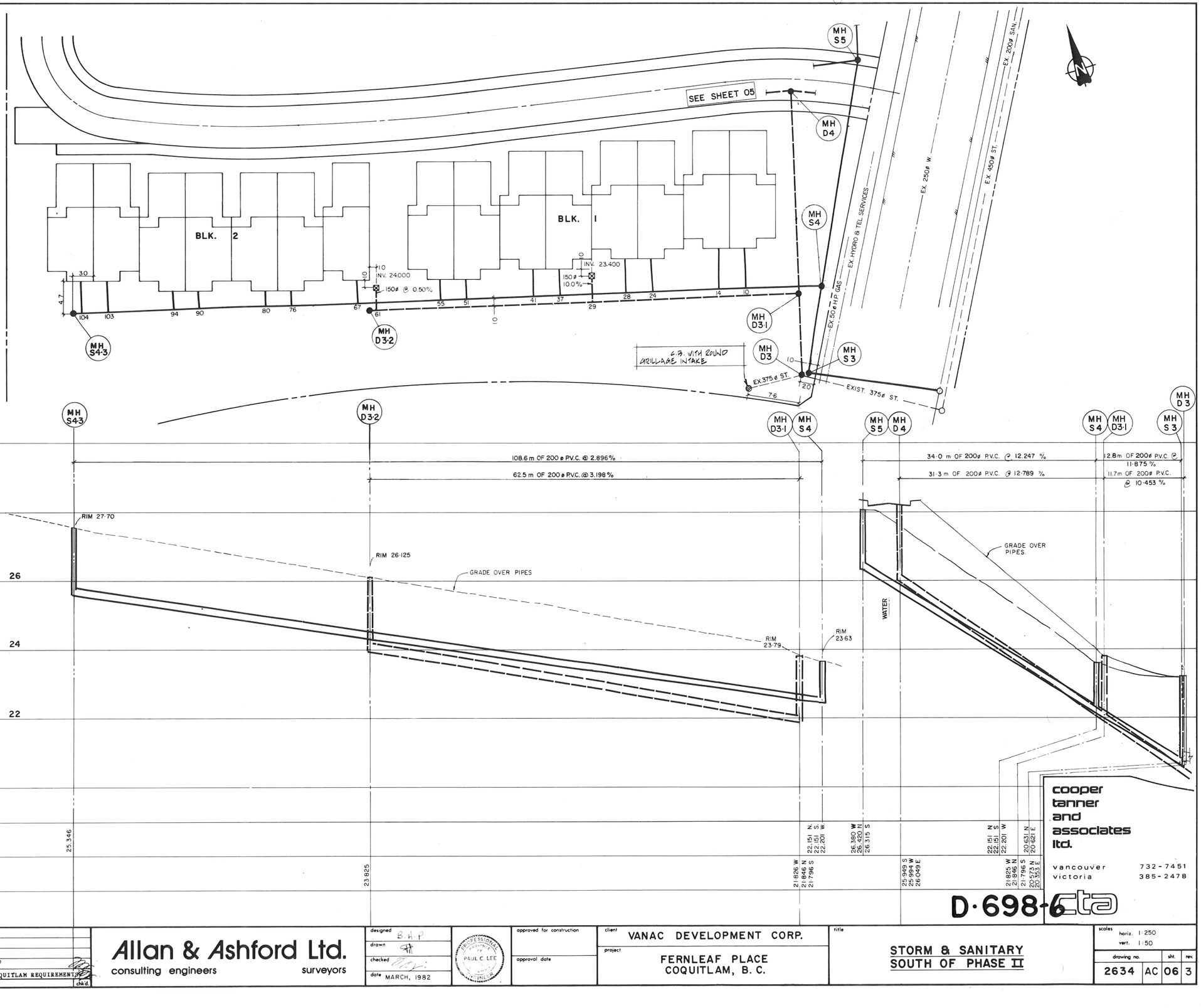
scales horiz. 1:250 vert. 1:50
drawing no. 2634 AC
sht. 05
rev. 2

D-698

IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**



cooper tanner and associates ltd.
vancouver 732-7451
victoria 385-2478

D·698-6 cta

rev.	date	by	revisions	chk'd.
3	84 03	FSA	RECORD DRAWING	
2	83 09	PLL	REVISED AS PER COQ. REQ'T	
1	83 04	KH	GENERAL REVISION AS PER COQUITLAM REQUIREMENTS	

ACAD. MEET A1 - A4

Allan & Ashford Ltd.
consulting engineers surveyors

designed B.H.P.
drawn
checked
date MARCH, 1982

PROFESSIONAL ENGINEER PAUL C. LEE

approved for construction
approval date

client VANAC DEVELOPMENT CORP.
project FERNLEAF PLACE COQUITLAM, B. C.

title STORM & SANITARY SOUTH OF PHASE II

scales horiz. 1:250 vert. 1:50

drawing no.		sht.	rev.
2634	AC	06	3

D.748

IMPORTANT:
HYDRO, GAS AND TELEPHONE **ARE NOT LOCATED** ON THE CITY OF COQUITLAM AS-BUILTS.
CONTACT BC HYDRO, TERASEN GAS AND TELUS FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN **ARE APPROXIMATE ONLY** AND **SHOULD BE CONFRIMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

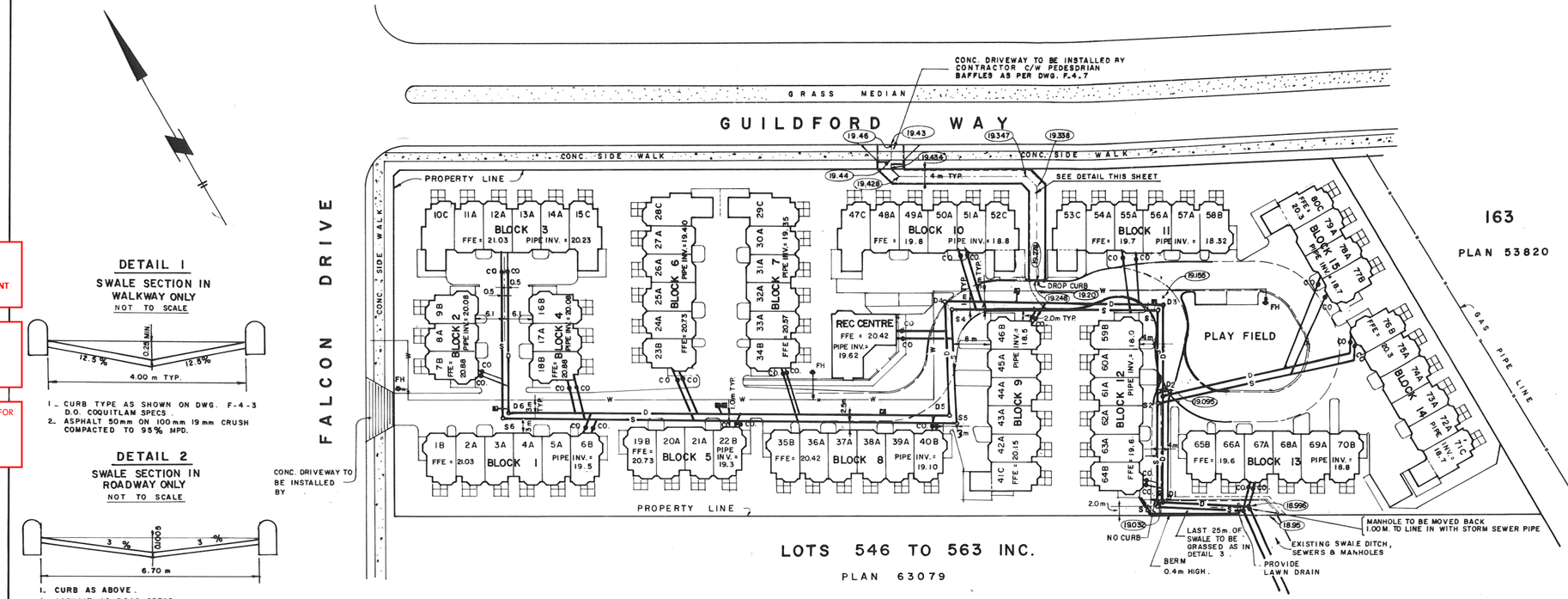
THIS PHOTOCOPY IS SUPPLIES BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND **THE ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NO WAY GUAARENTEED BY THE CITTY.**

DETAIL 1
SWALE SECTION IN WALKWAY ONLY
NOT TO SCALE

1 - CURB TYPE AS SHOWN ON DWG. F-4-3 D.O. COQUITLAM SPECS.
2. ASPHALT 50mm ON 100mm 19mm CRUSH COMPACTED TO 95% MPD.

DETAIL 2
SWALE SECTION IN ROADWAY ONLY
NOT TO SCALE

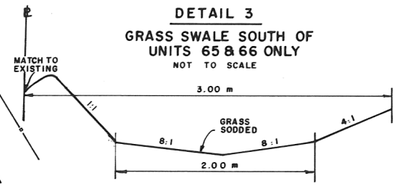
1. CURB AS ABOVE.
2. ASPHALT AS ROAD SPECS.



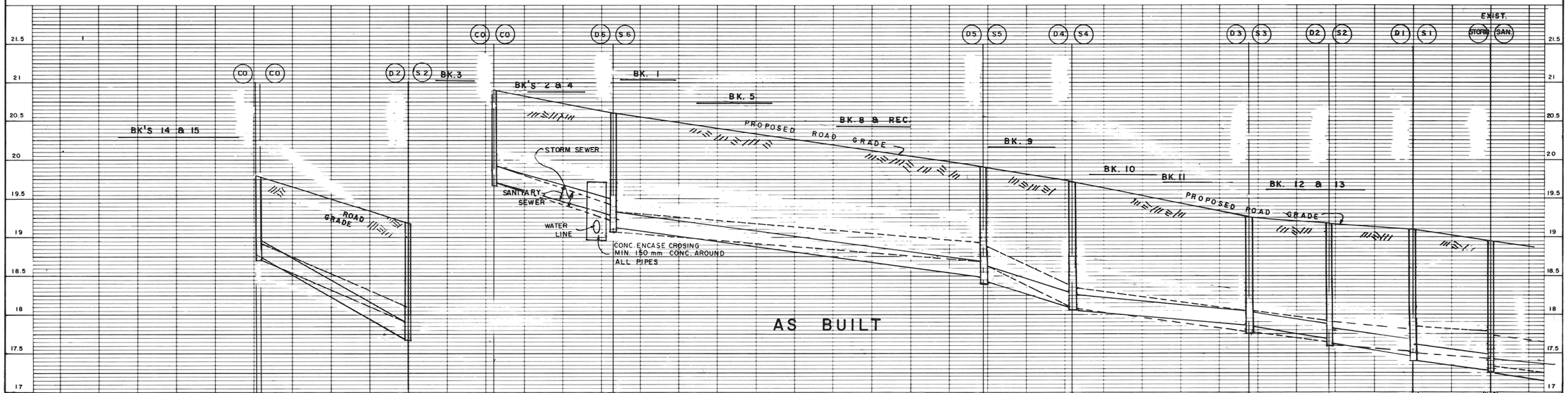
NOTES :

1. BM. IS MON # 77H6917 IN THE CURB SOUTH SIDE OF GUILDFORD WAY EAST OF FALCON DRIVE AT 20.516 m. GEODETIC.
2. ALL STORM & SANITARY WORK TO CLEANOUTS TO BE COMPLETED IN ACCORDANCE WITH THE DISTRICT OF COQUITLAM ENGINEERING SPECIFICATIONS.
3. MORGAN STEWART & COMPANY DOES NOT TAKE RESPONSABILITY FOR ANY INSPECTIONS UNLESS AN AGREEMENT IS REACHED WITH UNITED PROPERTIES LIMITED.
4. THE SANITARY SEWER PROFILE IS SLIGHTLY OUT OF SCALE TO FACILITATE CLARITY.
5. CONTRACTOR TO EXPOSE ALL CONNECTIONS BEFORE COMMENCING PIPE LAYING.
6. ELEVATIONS SHOW IN ELLIPSE'S ARE PROPOSED.
7. C.B.'s ARE TO BE CENTRED IN ROAD WAY.
8. ALL SERVICE CONNECTIONS TO STOP 1.0m. FROM THE FACE OF BLDG'S. AND TO TERMINATE WITH CLEAN OUTS.
9. CONCRETE CURB AS SHOW IN DWG. F-4-3 TO BE INSTALLED ALONG ROUTE OF SWALE DITCH AND 1.0m. BACK FROM SIDES OF SWALE.
10. CIVIL CONTRACTOR TO CONSULT ARCHITECTS DRAWINGS FOR BUILDING LAYOUT AND THEREFORE SEWER LAYOUT.
11. SUMPS 600 mm Ø x 1030 mm DEEP TO BE INSTALLED BEFORE CONNECTION TO STORM CONNECTION AT EACH BUILDING.
12. EXISTING STORM MANHOLE TO BE MOVED NORTH 1.00M. TO LINE IN WITH STORM LINE. MANHOLE NOT TO BE TAKEN APART BUT MOVED AS ONE UNIT AND EXTRA BASE 100mm ± PLACED UNDER. EXISTING GRADES TO BE MAINTAINED. EXISTING PIPE FROM EASEMENT TO BE EXTENDED TO NEW POSITION AND REGOUTED.

DETAIL 3
GRASS SWALE SOUTH OF UNITS 65 & 66 ONLY
NOT TO SCALE



13 - CLEAN OUT TO BE TO DWG. F-1-6 ON MAIN LINES AND IN TRAVELLED AREAS AND TO DWG. F-1-5 ON UNTRAVELLED AREAS.



S·711
D·748

ISSUE No	DESCRIPTION	BY	DATE
E	NOTES AS PER COQUITLAMS		
A	ISSUED FOR CLIENT APPROVAL	D.O.S	APR. 1984.
B	FINISHED FLOOR ELEVATIONS & PIPE INVERTS REVISED	D.O.S.	APR. 1984
C	SUMP DEPTH CHANGED & M.H. INVERTS	D.O.S.	MAY 1984
D	GRADES & PIPE SIZES CHANGED AS PER COQUITLAM	D.O.S.	JUNE 1984
F	REVISIONS AS PER "AS BUILT" INFO		

DESIGNED D.O.S
DRAWN T.V.
CHECKED I.S.
APPROVED
SCALES 1 : 500 / 1 : 25

MORGAN STEWART AND COMPANY LIMITED
Engineers & Surveyors
760 Denman Street, VANCOUVER, B.C V6G 2L5

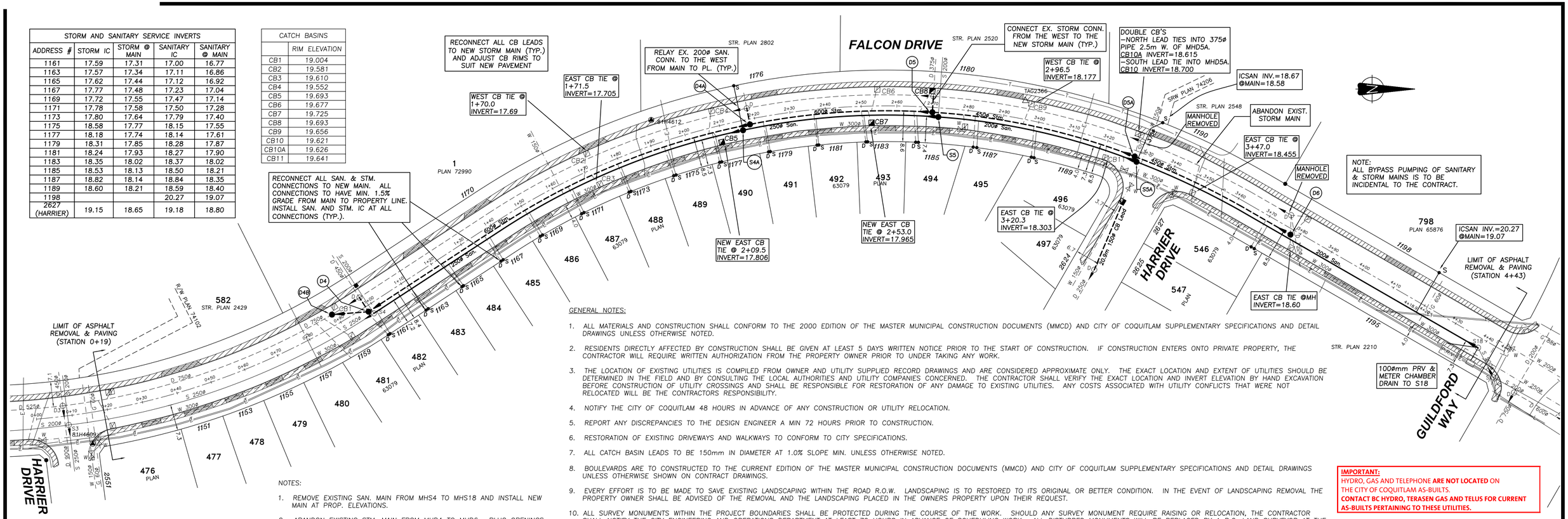
CLIENT: UNITED PROPERTIES LTD.
PROJECT: THE COURT YARDS STORM & SANITARY SEWERS

IAN T. STREET — PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA

JOB No 3573
DATE
SHEET 2 OF 4
DRAWING No 3573 - 2
ISSUE No F

STORM AND SANITARY SERVICE INVERTS				
ADDRESS #	STORM IC	STORM @ MAIN	SANITARY IC	SANITARY @ MAIN
1161	17.59	17.31	17.00	16.77
1163	17.57	17.34	17.11	16.86
1165	17.62	17.44	17.12	16.92
1167	17.77	17.48	17.23	17.04
1169	17.72	17.55	17.47	17.14
1171	17.78	17.58	17.50	17.28
1173	17.80	17.64	17.79	17.40
1175	18.58	17.77	18.15	17.55
1177	18.18	17.74	18.14	17.61
1179	18.31	17.85	18.28	17.87
1181	18.24	17.93	18.27	17.90
1183	18.35	18.02	18.37	18.02
1185	18.53	18.13	18.50	18.21
1187	18.82	18.14	18.84	18.35
1189	18.60	18.21	18.59	18.40
1198			20.27	19.07
2627 (HARRIER)	19.15	18.65	19.18	18.80

CATCH BASINS	
	RIM ELEVATION
CB1	19.004
CB2	19.581
CB3	19.610
CB4	19.552
CB5	19.693
CB6	19.677
CB7	19.725
CB8	19.693
CB9	19.656
CB10	19.621
CB10A	19.626
CB11	19.641



NOTES:

1. REMOVE EXISTING SAN. MAIN FROM MHS4 TO MHS18 AND INSTALL NEW MAIN AT PROP. ELEVATIONS.
2. ABANDON EXISTING STM. MAIN FROM MHD4 TO MHD6. PLUG OPENINGS WITH CONCRETE. INSTALL NEW MAIN AT PROP. ELEVATIONS & OFFSET.
3. REMOVE EXISTING SAN. AND STM. MANHOLES AND REPLACE MANHOLES TO SUIT NEW GRADES & ELEVATIONS EXCEPT MANHOLE S4 & S18.
4. REMOVE THE REMAINING ASPHALT & RE-GRADE BASE FROM CURB TO CURB AND INSTALL TWO LIFTS OF ASPHALT, 60mm OF LOWER COURSE #1 MMCD, & 50mm OF SUPERPAVE UPPER COURSE FROM HARRIER DR. TO GUILDFORD WAY.
5. REINSTATE TRAFFIC LOOPS ON FALCON & GUILDFORD WAY. INFORM TRAFFIC DEPT. 72 HOURS PRIOR TO REMOVING LOOPS.
6. LIGHTWEIGHT BACKFILL OF THE NEW SANITARY & STORM MAINS TO BE INSTALLED.
7. PIPE BEDDING AS PER MMCD G4.

GENERAL NOTES:

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE 2000 EDITION OF THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD) AND CITY OF COQUITLAM SUPPLEMENTARY SPECIFICATIONS AND DETAIL DRAWINGS UNLESS OTHERWISE NOTED.
2. RESIDENTS DIRECTLY AFFECTED BY CONSTRUCTION SHALL BE GIVEN AT LEAST 5 DAYS WRITTEN NOTICE PRIOR TO THE START OF CONSTRUCTION. IF CONSTRUCTION ENTERS ONTO PRIVATE PROPERTY, THE CONTRACTOR WILL REQUIRE WRITTEN AUTHORIZATION FROM THE PROPERTY OWNER PRIOR TO UNDER TAKING ANY WORK.
3. THE LOCATION OF EXISTING UTILITIES IS COMPILED FROM OWNER AND UTILITY SUPPLIED RECORD DRAWINGS AND ARE CONSIDERED APPROXIMATE ONLY. THE EXACT LOCATION AND EXTENT OF UTILITIES SHOULD BE DETERMINED IN THE FIELD AND BY CONSULTING THE LOCAL AUTHORITIES AND UTILITY COMPANIES CONCERNED. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND INVERT ELEVATION BY HAND EXCAVATION BEFORE CONSTRUCTION OF UTILITY CROSSINGS AND SHALL BE RESPONSIBLE FOR RESTORATION OF ANY DAMAGE TO EXISTING UTILITIES. ANY COSTS ASSOCIATED WITH UTILITY CONFLICTS THAT WERE NOT RELOCATED WILL BE THE CONTRACTORS RESPONSIBILITY.
4. NOTIFY THE CITY OF COQUITLAM 48 HOURS IN ADVANCE OF ANY CONSTRUCTION OR UTILITY RELOCATION.
5. REPORT ANY DISCREPANCIES TO THE DESIGN ENGINEER A MIN 72 HOURS PRIOR TO CONSTRUCTION.
6. RESTORATION OF EXISTING DRIVEWAYS AND WALKWAYS TO CONFORM TO CITY SPECIFICATIONS.
7. ALL CATCH BASIN LEADS TO BE 150mm IN DIAMETER AT 1.0% SLOPE MIN. UNLESS OTHERWISE NOTED.
8. BOULEVARDS ARE TO CONSTRUCTED TO THE CURRENT EDITION OF THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD) AND CITY OF COQUITLAM SUPPLEMENTARY SPECIFICATIONS AND DETAIL DRAWINGS UNLESS OTHERWISE SHOWN ON CONTRACT DRAWINGS.
9. EVERY EFFORT IS TO BE MADE TO SAVE EXISTING LANDSCAPING WITHIN THE ROAD R.O.W. LANDSCAPING IS TO RESTORED TO ITS ORIGINAL OR BETTER CONDITION. IN THE EVENT OF LANDSCAPING REMOVAL THE PROPERTY OWNER SHALL BE ADVISED OF THE REMOVAL AND THE LANDSCAPING PLACED IN THE OWNERS PROPERTY UPON THEIR REQUEST.
10. ALL SURVEY MONUMENTS WITHIN THE PROJECT BOUNDARIES SHALL BE PROTECTED DURING THE COURSE OF THE WORK. SHOULD ANY SURVEY MONUMENT REQUIRE RAISING OR RELOCATION, THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEERING AND OPERATIONS DEPARTMENT AT LEAST 72 HOURS IN ADVANCE OF SCHEDULING WORK. ALL DISTURBED MONUMENTS WILL BE REPLACED BY A B.C. LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
11. SURVEY PINS DISTURBED DURING THE COURSE OF CONSTRUCTION SHALL REPLACED BY A B.C. LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
12. THE CONTRACTOR SHALL PROVIDE CONSTRUCTION SIGNAGE, BARRIERS, FLASHING INDICATORS, ETC. AT ALL TIMES TO ENSURE THE SAFETY OF THE PUBLIC. TRAFFIC CONTROL WILL BE REQUIRED FOR ALL CONSTRUCTION WORKS WITHIN THE TRAVELED PORTION OF THE ROAD. NO ROAD SHALL BE CLOSED WITHOUT THE WRITTEN CONSENT OF THE DIRECTOR OF ENGINEERING AND OPERATIONS.
13. ALL PUBLIC ROADWAYS AFFECTED BY THE WORKS SHALL BE KEPT IN A CLEAN STATE AT ALL TIMES. DUST CONTROL MEASURES SHALL BE EMPLOYED DURING THE COURSE OF THE WORK.
14. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, AND FOR COORDINATING THE VARIOUS PARTS OF THE WORK. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THERE IS NO DISRUPTION TO SERVICE, AND IF DISRUPTION IS ANTICIPATED, TO NOTIFY THE DESIGN ENGINEER A MINIMUM OF 72 HOURS PRIOR, AND OBTAIN APPROVAL FOR THE DISRUPTION.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL EXCAVATED MATERIAL UNSUITABLE FOR REUSE AT A SUITABLE OFF-SITE DISPOSAL AREA, IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
16. CONTRACTOR TO MAINTAIN AN UP TO DATE SET OF AS-CONSTRUCTED DRAWINGS AT ALL TIMES. AS-CONSTRUCTED DRAWINGS TO BE DELIVERED TO THE ENGINEER AT SUBSTANTIAL PERFORMANCE FOR PREPARATION OF FINAL RECORD DRAWINGS.

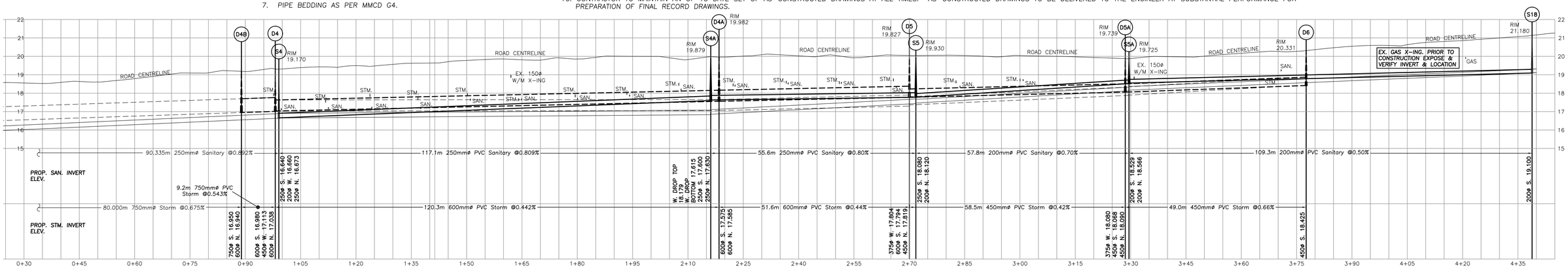
SUPPLEMENTARY LEGEND

- Iron pin found
- Lead Plug found
- Control point placed
- Control monument found

IMPORTANT:
HYDRO, GAS AND TELEPHONE **ARE NOT LOCATED** ON THE CITY OF COQUITLAM AS-BUILTS.
CONTACT BC HYDRO, TERASEN GAS AND TELUS FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN **ARE APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND **THE ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NO WAY GUARANTEED BY THE CITY.**



	EXISTING	PROPOSED		EXISTING	PROPOSED		EXISTING	PROPOSED		EXISTING	PROPOSED
Edge of pavement			Drainage sewer, MH			Sanitary sewer, MH			U/G signal/light duct		
Asphalt curb			Drainage service, Cleanout			Sanitary service, Cleanout			Streetlight, davit		
Concrete sidewalk			Catch basin, top inlet			Sanitary sewer, forcemain			Streetlight, post top		
Concrete curb			Catch basin, side inlet			U/G electrical duct, MH			Traffic signal pole		
Watermain and valve			Catch basin, round			Utility pole			Traffic signal post		
Water service box/curb stop			Swale			Utility pole with light			Traffic street sign		
Hydrant			Ditch			Junction box			Flasher		
Water blowoff			Culvert			U/G telecommunication, MH			Signal fixture		
Water air valve			Inlet/Outlet Structure			U/G gas main and valve			Combination traffic signal pole		

PROJECT# 85181

COQ. ASBUILT No.
D2544
S1900

Destroy All Prints Bearing Rev. No. less than one indicated below

REV.	DATE	REVISION
1	SEP 12 11	CB ELEVATIONS ADDED

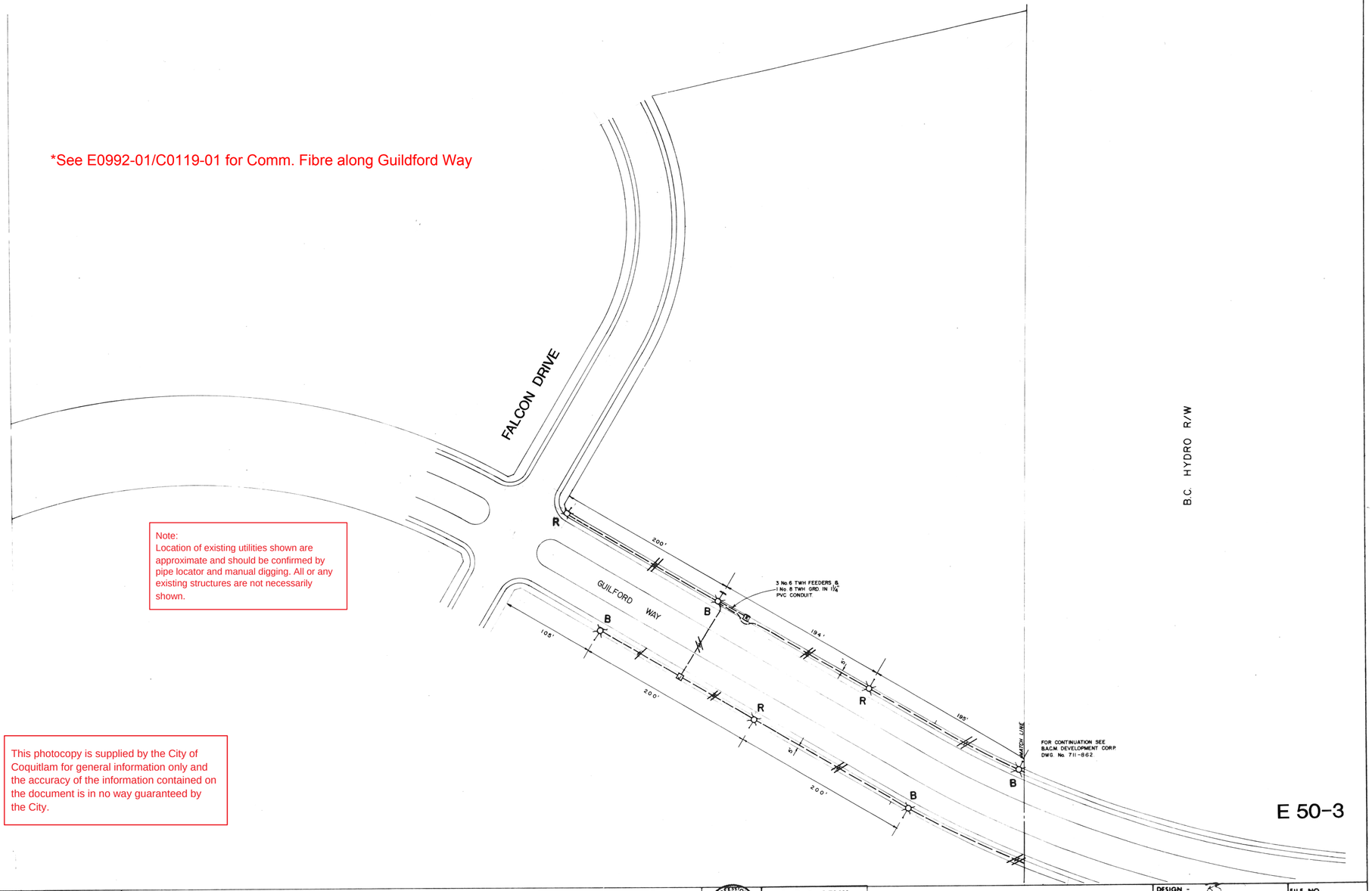
Coquitlam
Engineering & Public Works
3000 Guildford Way, Coquitlam, B.C. V3B 7N2

Project: FALCON DRIVE

Harrier Dr. to Guildford Dr.
Sewer Rehab. & Paving

DESIGNED	SCALE Horiz. 1:500 Vert. 1:100	DATE JAN 4 09
DRAWN A.S.K.	DWG FILE: 11Falcon01071611A0	
CHECKED	SHEET 1 OF 1	REV. 1
APPROVED		

PLOT DATE/TIME: Tuesday, September 13, 2011 9:26:31 AM



LEGEND

- POST-TOP STREETLIGHT POLE (20'-250W).
- POST-TOP STREETLIGHT POLE (17'-250W) WITH P.E. CELL & SERVICE BASE.
- POST-TOP STREETLIGHT POLE (15'-175W).
- POST-TOP STREETLIGHT POLE (25'-250W).
- POST-TOP STREETLIGHT POLE (22'-250W) WITH P.E. CELL & SERVICE BASE.
- STREETLIGHT POLE (30'-400W).
- STREETLIGHT POLE (27'-400W) WITH P.E. CELL & SERVICE BASE.
- HIGH PRESSURE SODIUM, STREETLIGHT POLE (40'-400W).
- HIGH PRESSURE SODIUM, STREETLIGHT POLE (37'-400W) WITH P.E. CELL & SERVICE BASE.
- STREETLIGHT POLE TO BE INSTALLED BY OTHERS.
- FUTURE STREETLIGHT POLE.
- B.C. HYDRO SERVICE KIOSK.
- JUNCTION BOX.
- R — LUMINAIRE ON RED PHASE CONDUCTOR.
- B — LUMINAIRE ON BLACK PHASE CONDUCTOR.
- STUB OUT FOR FUTURE EXTENSION.
- CO — 1¼" PVC CONDUIT ONLY.
- SC — 3 No. 6 TWH FEEDERS & 1 No. 8 TWH GRD. IN 1¼" PVC CONDUIT.
- 2 No. 6 TWH FEEDERS & 1 No. 8 TWH GRD. IN 1¼" PVC CONDUIT.
- 3 No. 6 TWH FEEDERS & 1 No. 8 TWH GRD. IN 1¼" PVC CONDUIT.

Note:
Location of existing utilities shown are approximate and should be confirmed by pipe locator and manual digging. All or any existing structures are not necessarily shown.

This photocopy is supplied by the City of Coquitlam for general information only and the accuracy of the information contained on the document is in no way guaranteed by the City.

REVISION	DATE	BY	NO	REVISION	DATE	BY

B.A.C.M. DEVELOPMENT CORPORATION LIMITED

R. P. SHAFLIK ENGINEERING LTD.
ELECTRICAL CONSULTANTS
BURNABY, B.C.

EAGLE RIDGE STAGE I
STREETLIGHTING ELECTRICAL AS CONSTRUCTED

DESIGN -
DRAWN - L.B.
CHECKED -
DATE JUNE 1977
SCALE 1" = 50'

FILE NO.
DRAWING NO. 711-863
REV.

E-50-3

*See E0992-01/C0119-01 for Comm. Fibre along Guildford Way

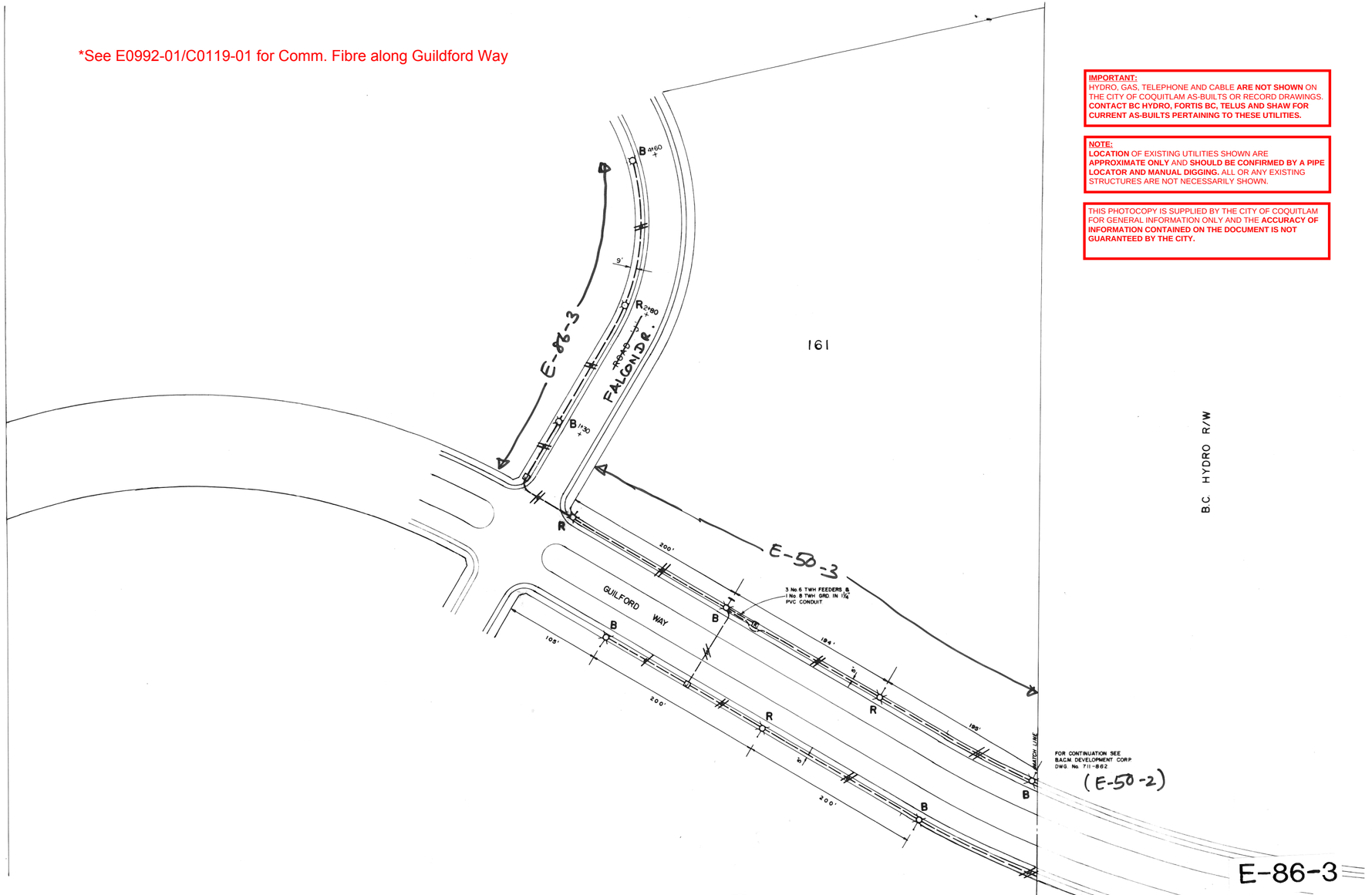
IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

LEGEND

- POST-TOP STREETLIGHT POLE (20'-250W).
- POST-TOP STREETLIGHT POLE (17'-250W) WITH P.E. CELL & SERVICE BASE.
- POST-TOP STREETLIGHT POLE (15'-175W).
- POST-TOP STREETLIGHT POLE (25'-250W).
- POST-TOP STREETLIGHT POLE (22'-250W) WITH P.E. CELL & SERVICE BASE.
- STREETLIGHT POLE (30'-400W).
- STREETLIGHT POLE (27'-400W) WITH P.E. CELL & SERVICE BASE.
- HIGH PRESSURE SODIUM, STREETLIGHT POLE (40'-400W).
- HIGH PRESSURE SODIUM, STREETLIGHT POLE (37'-400W) WITH P.E. CELL & SERVICE BASE.
- STREETLIGHT POLE TO BE INSTALLED BY OTHERS.
- FUTURE STREETLIGHT POLE.
- B.C. HYDRO SERVICE KIOSK.
- JUNCTION BOX.
- LUMINAIRE ON RED PHASE CONDUCTOR.
- LUMINAIRE ON BLACK PHASE CONDUCTOR.
- STUB OUT FOR FUTURE EXTENSION.
- CO — 1¼" PVC CONDUIT ONLY.
- SC — 3 No. 6 TWH FEEDERS & 1 No. 8 TWH GRD. IN 1½" PVC CONDUIT.
- 2 No. 6 TWH FEEDERS & 1 No. 8 TWH GRD. IN 1½" PVC CONDUIT.
- 3 No. 6 TWH FEEDERS & 1 No. 8 TWH GRD. IN 1½" PVC CONDUIT.



NO	REVISION	DATE	BY
-			
1	ROAD 'J' STREETLIGHTING ADDED	17-7-79	KFB

B.A.C.M. DEVELOPMENT CORPORATION LIMITED

R. P. SHAFLIK ENGINEERING LTD.
ELECTRICAL CONSULTANTS
BURNABY, B.C.

EAGLE RIDGE STAGE 12
STREETLIGHTING ELECTRICAL AS CONSTRUCTED

DESIGN -
DRAWN - L.B.
CHECKED - K.F.K.
DATE JUNE 1977
SCALE 1" = 50'

FILE NO. 711-863
DRAWING NO. REV. 1

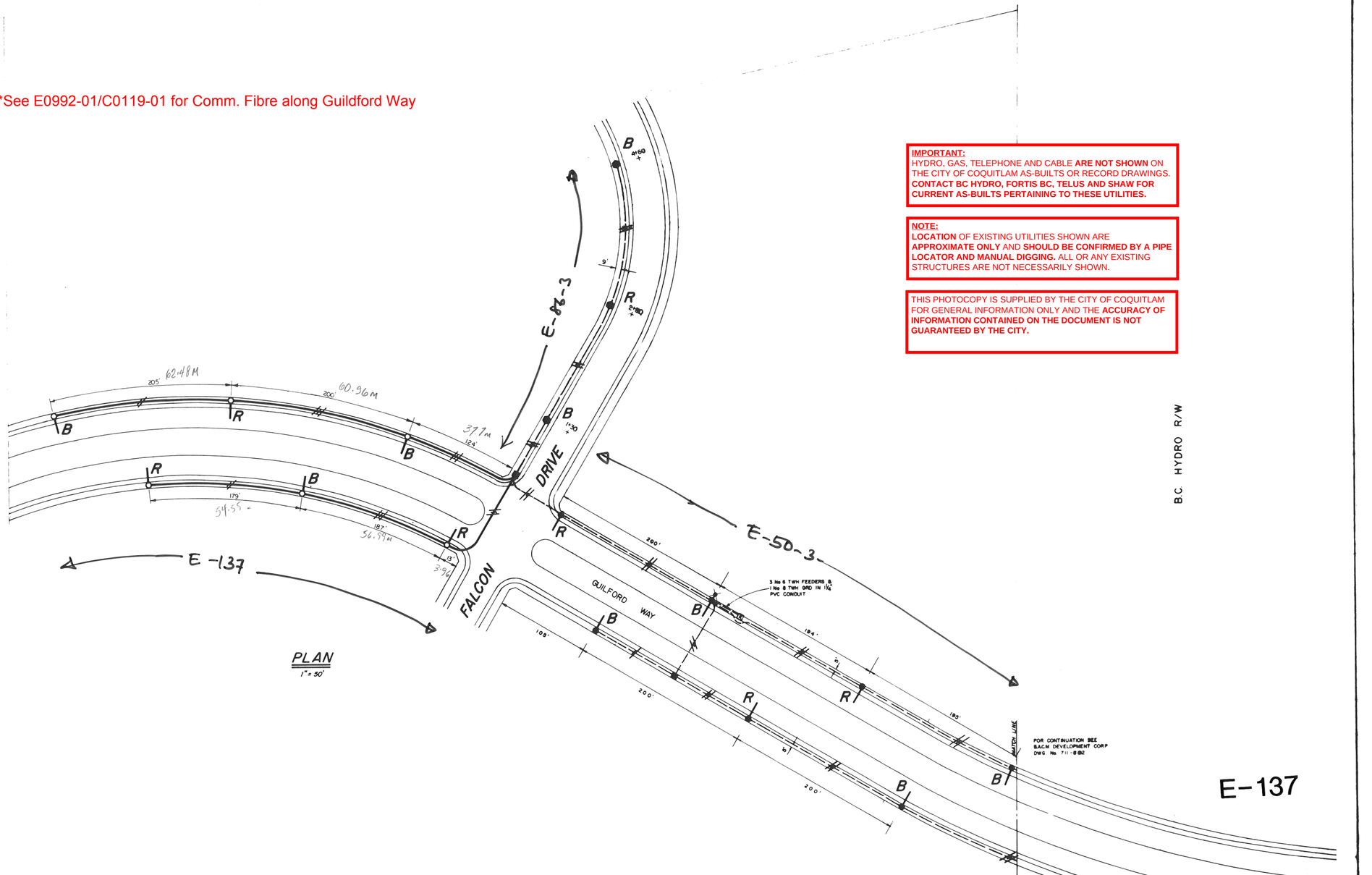
*See E0992-01/C0119-01 for Comm. Fibre along Guildford Way

LEGEND

- — DAVIT STREETLIGHT POLE (30'-400W).
- — DAVIT STREETLIGHT POLE (27'-400W) WITH P.E. CELL & SERVICE BASE.
- — POST-TOP STREETLIGHT POLE (20'-250W).
- K — B.C. HYDRO SERVICE KIOSK.
- ■ — JUNCTION BOX.
- R — LUMINAIRE ON RED PHASE CONDUCTOR.
- B — LUMINAIRE ON BLACK PHASE CONDUCTOR.
- — 2 No. 6 TWH FEEDERS & 1 No. 8 TWH GRD. IN 1 1/4" PVC CONDUIT.
- — 3 No. 6 TWH FEEDERS & 1 No. 8 TWH GRD. IN 1 1/4" PVC CONDUIT.

NOTE

1) ALL STREET LIGHTS ARE MERCURY VAPOUR.



PLAN
1" = 50'

IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

E-137

REVISIONS	DATE	BY	NO.	REVISION	DATE	BY
			1	AS CONSTRUCTED	29-9-81	J.L.H

B.A.C.M. DEVELOPMENT CORPORATION LIMITED

R. P. SHAFLIK ENGINEERING LTD.
ELECTRICAL CONSULTANTS
BURNABY, B.C.

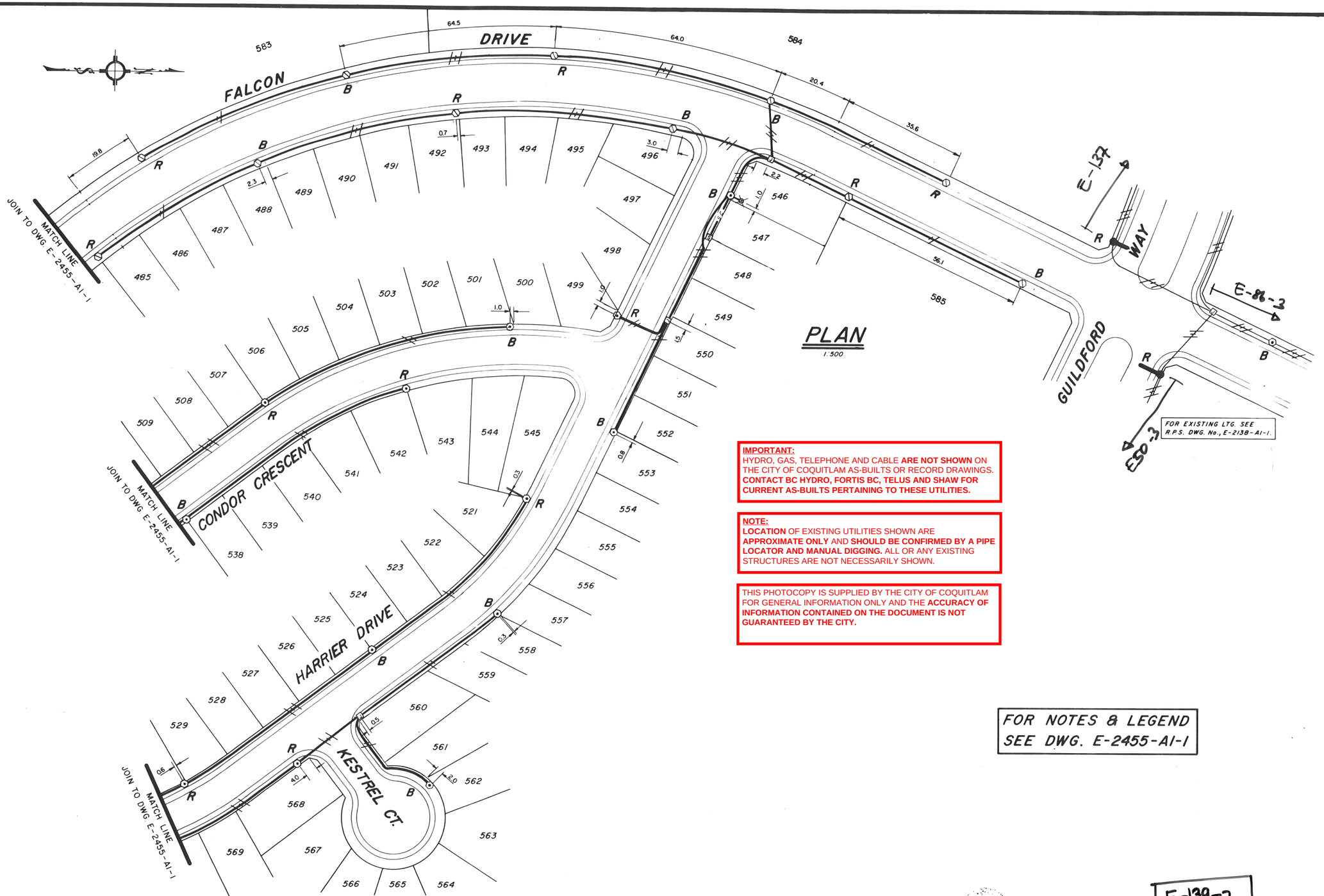
AS CONSTRUCTED
EAGLE RIDGE STAGE I
STREETLIGHTING ON GUILFORD WAY
COQUITLAM, B.C.

DESIGN -	C.F.S.
DRAWN -	M.A.M.
CHECKED -	
DATE	80-04-09
SCALE	1" = 50'

FILE NO.
DRAWING NO. 711-662
REV. 1

E-137

E-139 2/2



IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

FOR NOTES & LEGEND SEE DWG. E-2455-AI-1

NO	REVISION	DATE	BY
3	AS CONSTRUCTED	MAR 82	P.R.
2	STREET LIGHT RELOCATED IN CUL DE SAC	11-8-81	W.R.S.
1	STREET LIGHTS REVISED ROAD 'A'	17-7-81	J.L.H.

DESIGN C.F.S.
DRAWN G.M.G.
CHECKED
DATE 81-04-06

R. P. SHAFLIK ENGINEERING LTD.
ELECTRICAL CONSULTANTS

DWG. No. E-2455-AI-2

STREET LIGHTING
EAGLE RIDGE DEVELOPMENT
RUNNEL DR. TO GUILDFORD WAY, COQ. - (STAGE IV)

AS CONSTRUCTED

GENSTAR DEVELOPMENT COMPANY
A MEMBER OF THE GENSTAR GROUP OF COMPANIES

SCALE 1:500
DRAWING NO 714-702
SHEET __ OF __ REVISION 3

E-139-2

E-139-2 #2

PORT MOODY

GUILDFORD WAY

CITY OF COQUITLAM

EAGLECREST DR.

EAGLERIDGE DR.

TYPE 5686 PULL BOX (INSTALLED DIRECTLY AT BACK OF SIDEWALK)

4 x 78mm R.PVC CONDUIT (EMPTY)

TYPE 5686 PULL BOX

4 x 78mm R.PVC CONDUIT (EMPTY)

4 x 78mm R.PVC CONDUIT (EMPTY)

4 x 78mm R.PVC CONDUIT (EMPTY)

TYPE 5686 PULL BOX

4 x 78mm R.PVC CONDUIT (EMPTY)

TYPE 5686 PULL BOX

I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THESE WORKS ARE COMPLETE AND WERE CONSTRUCTED AS ON THIS 'RECORD DRAWING'.

LCP SIGNAL MANAGEMENT INC.

SIGNED : _____
Larry C. Parks

DATE : _____

This photocopy is supplied by the City of Coquitlam for general information only and the accuracy of the information contained on the document is in no way guaranteed by the City.

*See E0137, E0050–02 &–03, E0086–03 for earlier street lighting

4 x 78mm R.PVC CONDUIT (EMPTY)

4 x 78mm R.PVC CONDUIT (EMPTY)

See CEDMS E0993–01TS/C0120–01 for Traffic Signal

1 x 53mm R.PVC CONDUIT

4 x 78mm R.PVC CONDUIT (EMPTY)

4 x 78mm R.PVC CONDUIT (EMPTY) (3m OFF EDGE OF PAVEMENT)

TYPE 5686 PULL BOX

4 x 78mm R.PVC CONDUIT (EMPTY) (3m OFF EDGE OF PAVEMENT)

1 x 78mm R.PVC CONDUIT (EMPTY)

TYPE 5686 PULL BOX

1 x 78mm R.PVC CONDUIT (EMPTY) (BETWEEN PULL BOX AND CONTROLLER CABINET)

TYPE 5686 PULL BOX

4 x 78mm R.PVC CONDUIT (EMPTY)

See E0758–01 & –02 for Traffic Signal

4 x 78mm R.PVC CONDUIT (EMPTY) (3m OFF EDGE OF PAVEMENT)

SEE THIS SHT–ABOVE

SEE THIS SHT–BELOW

SEE SHT F.2

NOTE: THIS LINE IS THE FUTURE CURB LINE FOR THIS SECTION

NOTE: THIS LINE IS THE EX. EDGE OF PAVEMENT FOR THIS SECTION

4 x 78mm R.PVC CONDUIT (EMPTY) (3m OFF EDGE OF PAVEMENT)

TYPE 5686 PULL BOX

4 x 78mm R.PVC CONDUIT (EMPTY) (3m OFF EDGE OF PAVEMENT)

Note:
Location of existing utilities shown are approximate and should be confirmed by pipe locator and manual digging. All or any existing structures are not necessarily shown.

COQUITLAM RECORD DRAWING NO
•E0992–01
C0119–01

No	Date	Revision	Dr.	Ch.
2	SEP25/02	RECORD DRAWINGS	LRM	LCP
1	APR16/02	ISSUED FOR TENDER	LRM	LCP
--	APR11/02	PRELIMINARY REVIEW SET	LRM	LCP

LCP Signal Management Inc.
1447 Gabriola Drive
Coquitlam, B.C.
V3E 2C6
Ph: (604)–942–3631
Fax: (604)–945–9809

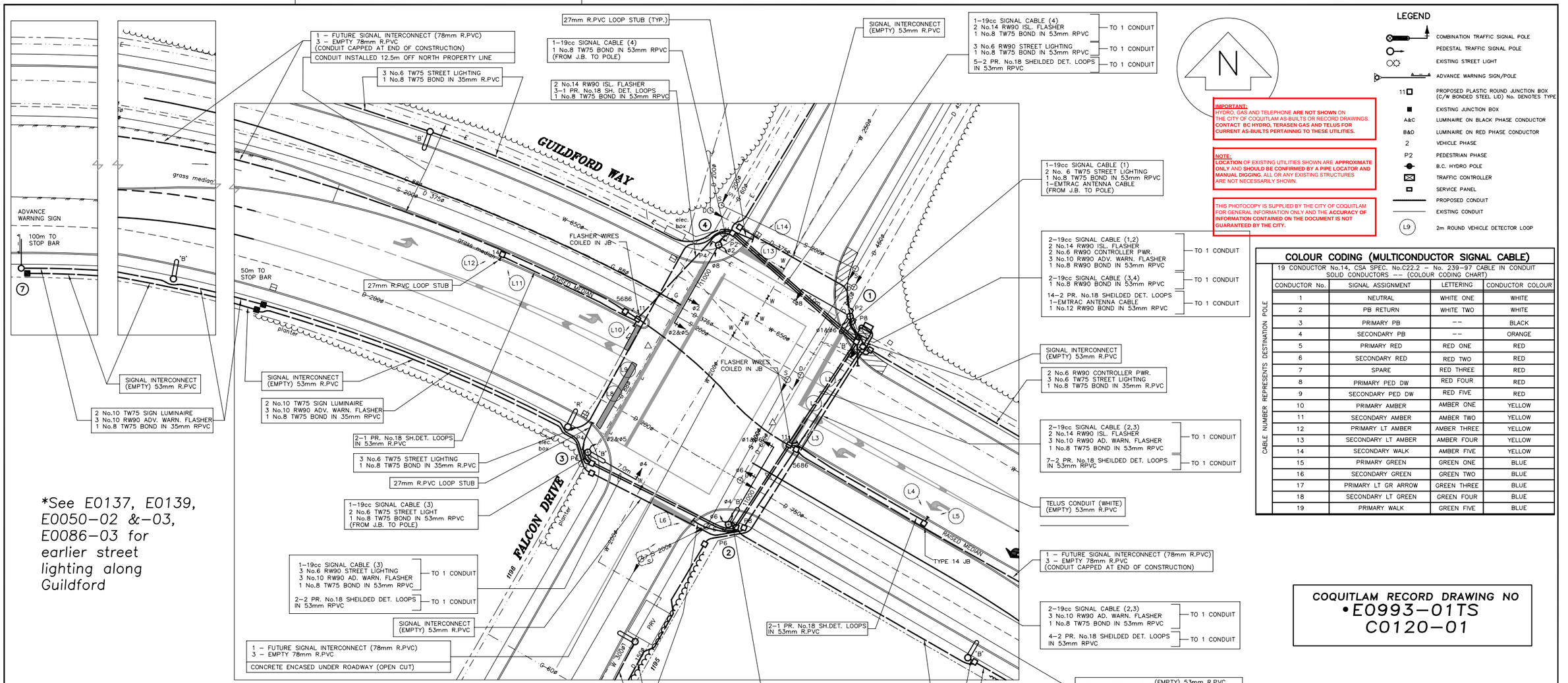
CITY OF COQUITLAM

COMMUNICATIONS INTERCONNECT DESIGN
GUILDFORD WAY CORRIDOR
GUILDFORD WAY FROM PORT MOODY TO PINETREE WAY

COMMUNICATIONS CONDUIT INSTALL 2002

Scale 1:500	Mun. Proj. No. ??–??	Drwg. No.	
Drawn LCP	Mun. Drwg. No.	1	
Designed LCP			
P.W. P.U.	Job No. 2002–09	Of 4	
Approved	Date MAR 2002	Revision 2	

ACAD GUILDFORD COMM INTERCONNECT.DWG SEP 25, 2002 16:25



*See E0137, E0139, E0050–02 &–03, E0086–03 for earlier street lighting along Guildford

*SUPERCEDES E0416–01TS & –02TS Traffic Signal by Shaflik, Sept 17/91

SITE PLAN
1:250

*See CEDMS E0992–01/C0119–01 for Comm. Duct Interconnect Installation

LEGEND

- COMBINATION TRAFFIC SIGNAL POLE
- PEDESTAL TRAFFIC SIGNAL POLE
- EXISTING STREET LIGHT
- ADVANCE WARNING SIGN/POLE
- 11 — PROPOSED PLASTIC ROUND JUNCTION BOX (C/W BONDED STEEL LID) No. DENOTES TYPE
- EXISTING JUNCTION BOX
- A&C — LUMINAIRE ON BLACK PHASE CONDUCTOR
- B&D — LUMINAIRE ON RED PHASE CONDUCTOR
- 2 — VEHICLE PHASE
- P2 — PEDESTRIAN PHASE
- B.C. HYDRO POLE
- TRAFFIC CONTROLLER
- SERVICE PANEL
- PROPOSED CONDUIT
- EXISTING CONDUIT
- L9 — 2m ROUND VEHICLE DETECTOR LOOP

IMPORTANT:
HYDRO, GAS AND TELEPHONE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, TERASEN GAS AND TELUS FOR CURRENT AS-BUILTS PERTAINNIG TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY AND SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

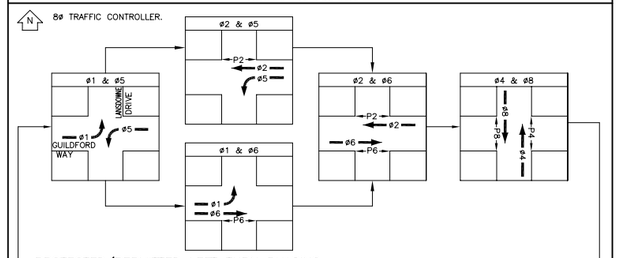
THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

COLOUR CODING (MULTICONDUCTOR SIGNAL CABLE)

19 CONDUCTOR No.14, CSA SPEC. No.C22.2 – No. 239–97 CABLE IN CONDUIT
SOLID CONDUCTORS –– (COLOUR CODING CHART)
CABLE NUMBER REPRESENTS DESTINATION POLE

CONDUCTOR No.	SIGNAL ASSIGNMENT	LETTERING	CONDUCTOR COLOUR
1	NEUTRAL	WHITE ONE	WHITE
2	PB RETURN	WHITE TWO	WHITE
3	PRIMARY PB	––	BLACK
4	SECONDARY PB	––	ORANGE
5	PRIMARY RED	RED ONE	RED
6	SECONDARY RED	RED TWO	RED
7	SPARE	RED THREE	RED
8	PRIMARY PED DW	RED FOUR	RED
9	SECONDARY PED DW	RED FIVE	RED
10	PRIMARY AMBER	AMBER ONE	YELLOW
11	SECONDARY AMBER	AMBER TWO	YELLOW
12	PRIMARY LT AMBER	AMBER THREE	YELLOW
13	SECONDARY LT AMBER	AMBER FOUR	YELLOW
14	SECONDARY WALK	AMBER FIVE	YELLOW
15	PRIMARY GREEN	GREEN ONE	BLUE
16	SECONDARY GREEN	GREEN TWO	BLUE
17	PRIMARY LT GR ARROW	GREEN THREE	BLUE
18	SECONDARY LT GREEN	GREEN FOUR	BLUE
19	PRIMARY WALK	GREEN FIVE	BLUE

SIGNAL SEQUENCE



LEGEND

	EXISTING	PROPOSED
Edge of pavement		
Asphalt curb		
Concrete sidewalk		
Concrete curb		
Watermain and valve		
Watermain, capped end		
Hydrant		
Water blowoff		
Water temporary blowoff		
Drainage sewer and MH		
Drainage sewer capped end		
Catch basin, top inlet		
Catch basin, side inlet		
Catch basin, round		
Swale		
Ditch		
Culvert		
Inlet Structure		
Sanitary sewer and MH		
Sanitary sewer, capped end		
Sanitary sewer, forcemain		
U/G electrical duct and MH		
Utility pole		
Utility pole with light		
Junction box		
U/G telephone and MH		
U/G gas main and valve		
U/G signal/light duct		
Streetlight, davit		
Streetlight, post top		
Traffic signal pole		
Traffic signal post		
Traffic controller		
Service box		
Signal fixture		
Traffic street sign		

COQUITLAM RECORD DRAWING NO
•E0993–01TS
C0120–01

I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THESE WORKS ARE COMPLETE AND WERE CONSTRUCTED AS ON THIS 'RECORD DRAWING'.

LCP SIGNAL MANAGEMENT INC.

SIGNED : _____ Larry C. Parks

DATE : _____

LCP Signal Management Inc.
1447 Gabriola Drive
Coquitlam, B.C.
V3E 2C6
Ph: (604)–942–3631
Fax: (604)–945–9809

REV. No.	DATE	REVISION
6		
5		
4		
3	JAN25/04	RECORD DRAWING
2	SEP20/01	ISSUED FOR TENDER
1	AUG28/01	SIGNAL MODS PRELIM DESIGN REVIEW
–	JAN 2001	UPDATE DRAWING TO NEW FORMAT

Destroy All Prints Bearing Rev. No. less than one indicated above

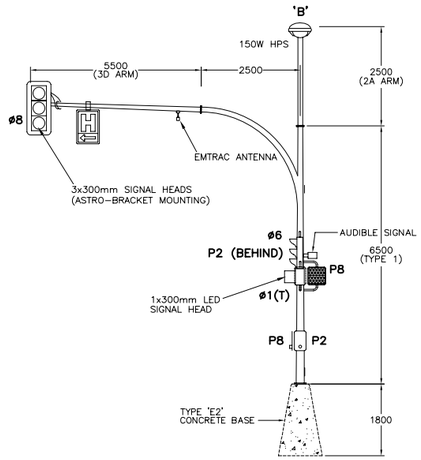
CITY OF COQUITLAM — **Operations**

DESIGNED – L.C.P.
DRAWN – L.C.P.
METRIC SCALE – 1:250
CHECKED – L.R.M.
DATE – JAN 08/01

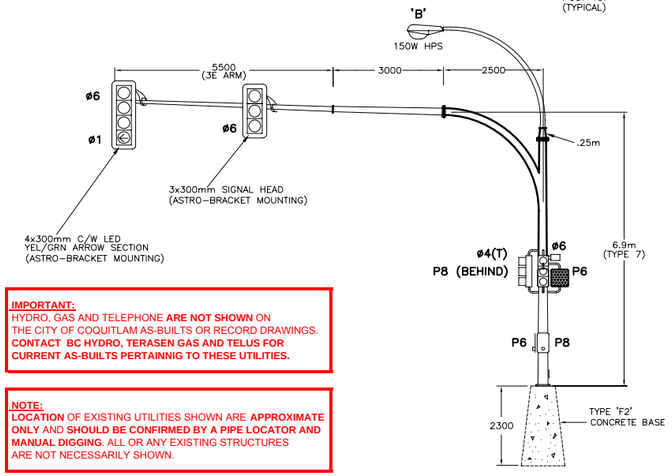
TRAFFIC SIGNAL UPGRADE GUILDFORD WAY @ FALCON DRIVE PLAN VIEW

DWG FILE: PJ2000–43
SHEET 1 OF 2
REVISION NO. 3

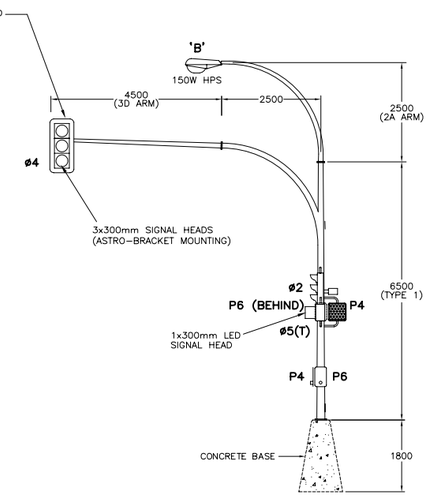
ACAD Falc–Guild Signal Sht 1 REC.dwg JAN 25, 2004 15:30 LCP



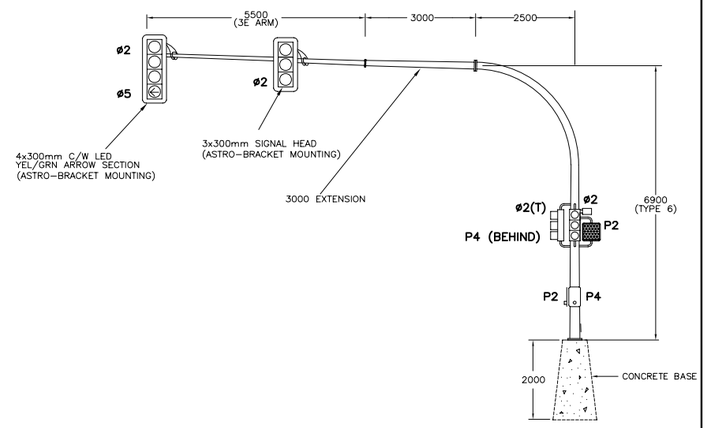
①



②



③



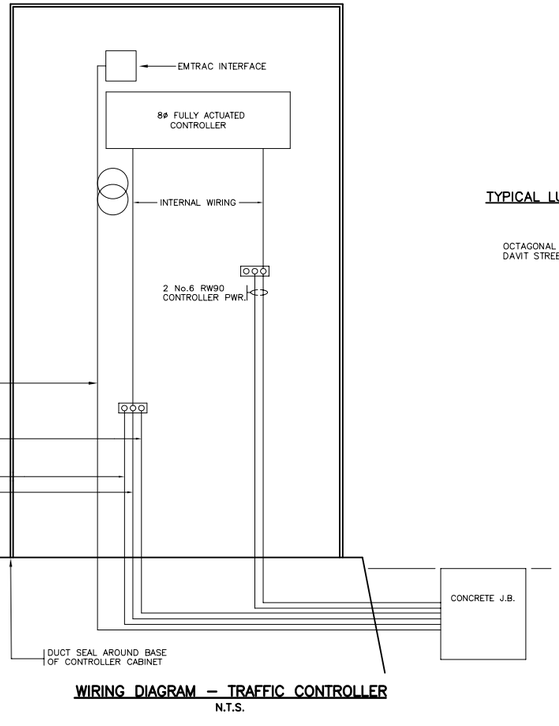
④

ELEVATIONS
1:75

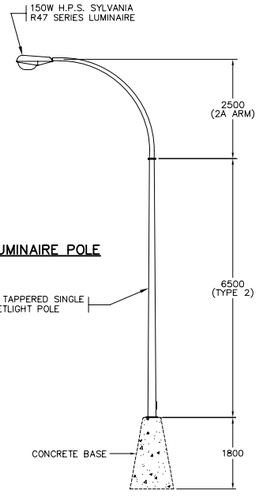
IMPORTANT:
HYDRO, GAS AND TELEPHONE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, TERASEN GAS AND TELUS FOR CURRENT AS-BUILTS PERTAINNIG TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING**. ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

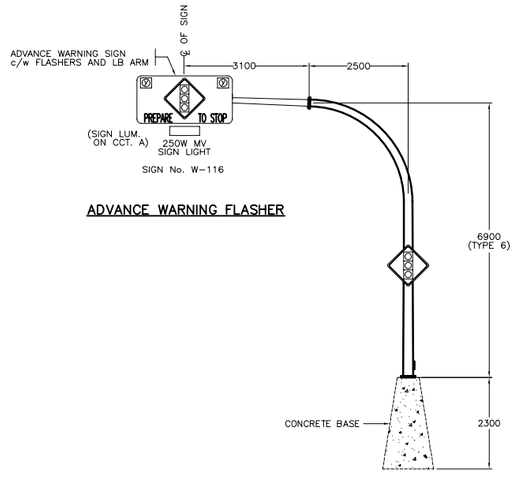
THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**



WIRING DIAGRAM – TRAFFIC CONTROLLER
N.T.S.



TYPICAL LUMINAIRE POLE



ADVANCE WARNING FLASHER

⑦

CHECK BEFORE YOU DIG

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH OCCUR DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

CHECK OVERHEAD WIRING

THE CONTRACTOR SHALL ENSURE THAT ALL POLES AND APPURTENANCES WILL BE A MINIMUM OF 3.0m CLEAR OF OVERHEAD PRIMARY WIRING AND 0.3m CLEAR OF OVERHEAD SECONDARY WIRING PRIOR TO INSTALLING POLE BASES.

INTERSECTION DETECTOR LOOPS

LOOP CONNECTIONS

LOOP No.	DET. CHAN.	ø ASSIGN.	MOVEMENT	CAB. TERM	DELAY	EXTEND
L1	1	2	W.B. CURB	L1A,L1B	–	–
L2	2	2	W.B. CENT.	L2A,L2B	–	–
L3	3	5	W.B. LT LANE	L3A,L3B	–	–
L4	4	5	W.B. LT LANE	L4A,L4B	–	–
L5	5	5	W.B. LT LANE	L5A,L5B	–	–
L6	6	8	N.B. CURB	L6A,L6B	–	–
L7	7	8	N.B. CURB	L7A,L7B	–	–
L8	8	6	E.B. CURB	L8A,L8B	–	–
L9	9	6	E.B. CURB	L9A,L9B	–	–
L10	10	1	E.B. LT LANE	L10A,L10B	–	–
L11	11	1	E.B. LT LANE	L11A,L11B	–	–
L12	12	1	E.B. LT LANE	L12A,L12B	–	–
L13	13	4	S.B. CURB	L13A,L13B	–	–
L14	14	4	S.B. CURB	L14A,L14B	–	–

COQUITLAM RECORD DRAWING NO
•E0993-02TS
C0120-02

I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THESE WORKS ARE COMPLETE AND WERE CONSTRUCTED AS ON THIS 'RECORD DRAWING'.

LCP SIGNAL MANAGEMENT INC.

SIGNED : _____
Larry C. Parks

DATE : _____

LCP Signal Management Inc.
1447 Gabriola Drive
Coquitlam, B.C.
V3E 2C6
Ph: (604)-942-3631
Fax: (604)-945-9809

REV. No.	DATE	REVISION
6		
5		
4		
3	JAN25/04	RECORD DRAWING
2	SEP20/01	ISSUED FOR TENDER
1	AUG28/01	SIGNAL MODS PRELIM DESIGN REVIEW
–	JAN 2001	UPDATE DRAWING TO NEW FORMAT

Destroy All Prints Bearing Rev. No. less than one indicated above

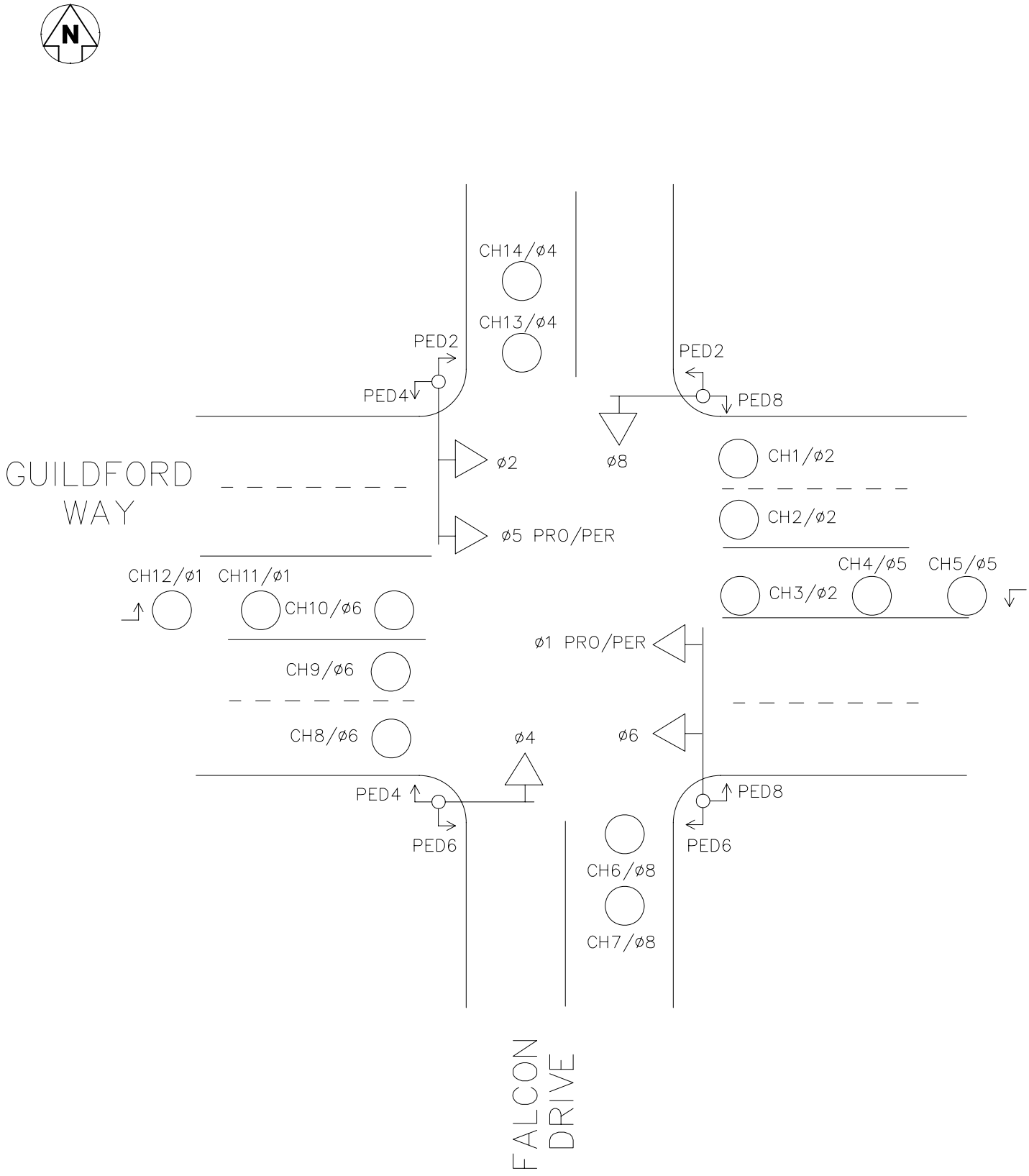
CITY OF COQUITLAM — **Operations**

DESIGNED – L.C.P.
DRAWN – L.C.P.
METRIC SCALE – 1:250
CHECKED – L.R.M.
DATE – JAN 08/01

TRAFFIC SIGNAL UPGRADE GUILDFORD WAY @ FALCON DRIVE DETAILS

DWG FILE: PJ2000-43
SHEET 2 OF 2
REVISION NO. 3

ACAD Folc-Guild Signal Sht 2 REC.dwg JAN 25, 2004 15:30 LCP

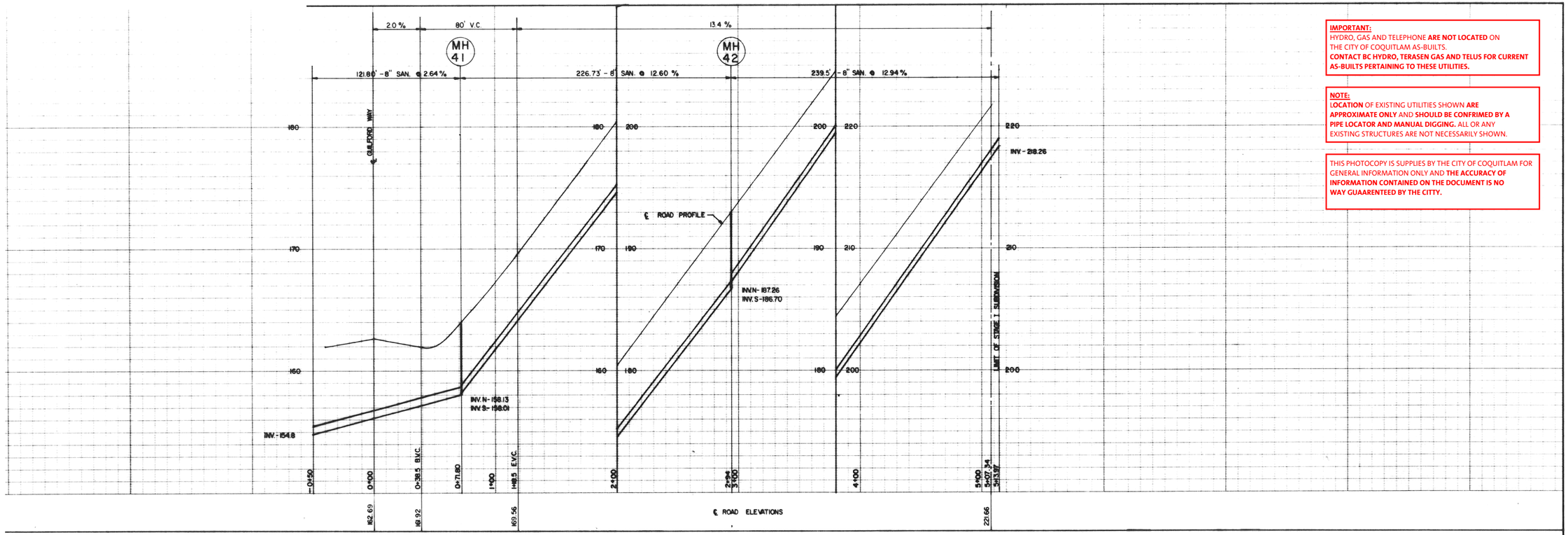


TSS 7000

LCP Signal Management Inc.
1447 Gabriola Drive
Coquitlam, B.C.
V3E 2C6
Ph: 604-942-3631
Fax: 604-945-9809

CITY OF COQUITLAM
Intersection Graphics – Basic Design Layout
GUILDFORD WAY @ FALCON DRIVE

Guildford @Falcon-Basic TSS7000.dwg LCP Apr 08, 2006 10:45

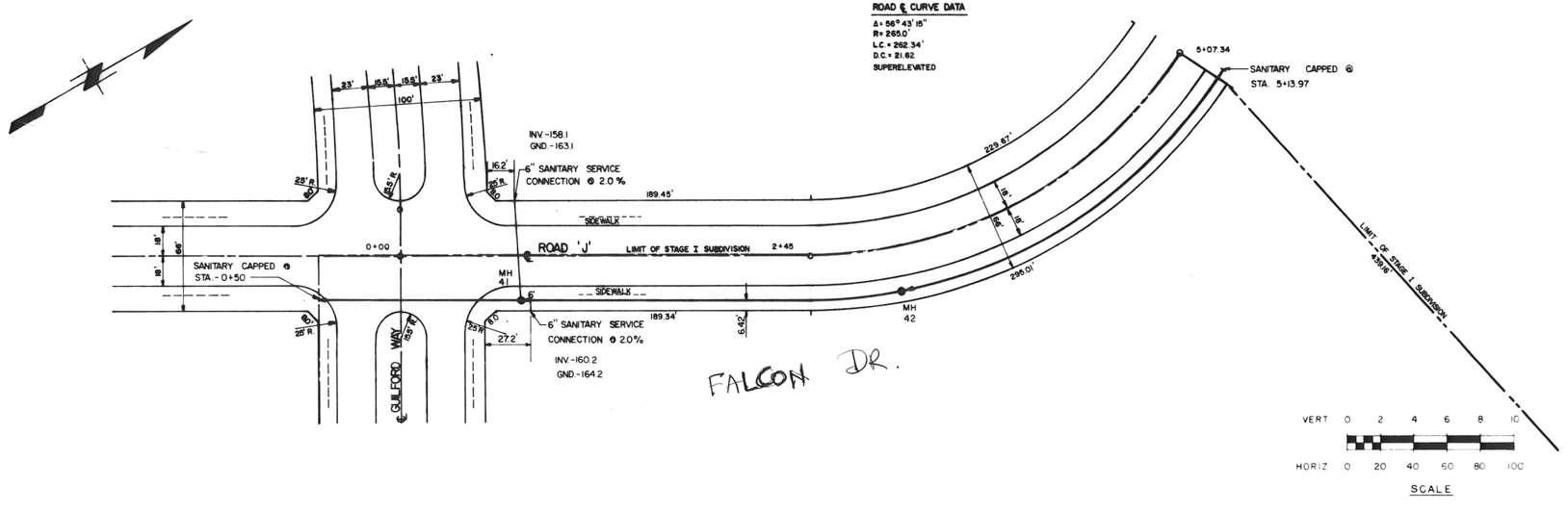


IMPORTANT:
HYDRO, GAS AND TELEPHONE **ARE NOT LOCATED** ON THE CITY OF COQUITLAM AS-BUILTS.
CONTACT BC HYDRO, TERASEN GAS AND TELUS FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN **ARE APPROXIMATE ONLY** AND **SHOULD BE CONFRIMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIES BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND **THE ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NO WAY GUAARENTEED BY THE CITTY.**

ROAD ℄ CURVE DATA
Δ = 56° 43' 18"
R = 265.0'
L.C. = 262.34'
D.C. = 21.62
SUPERELEVATED



FALCON DR.

S-492

ON	DATE	BY

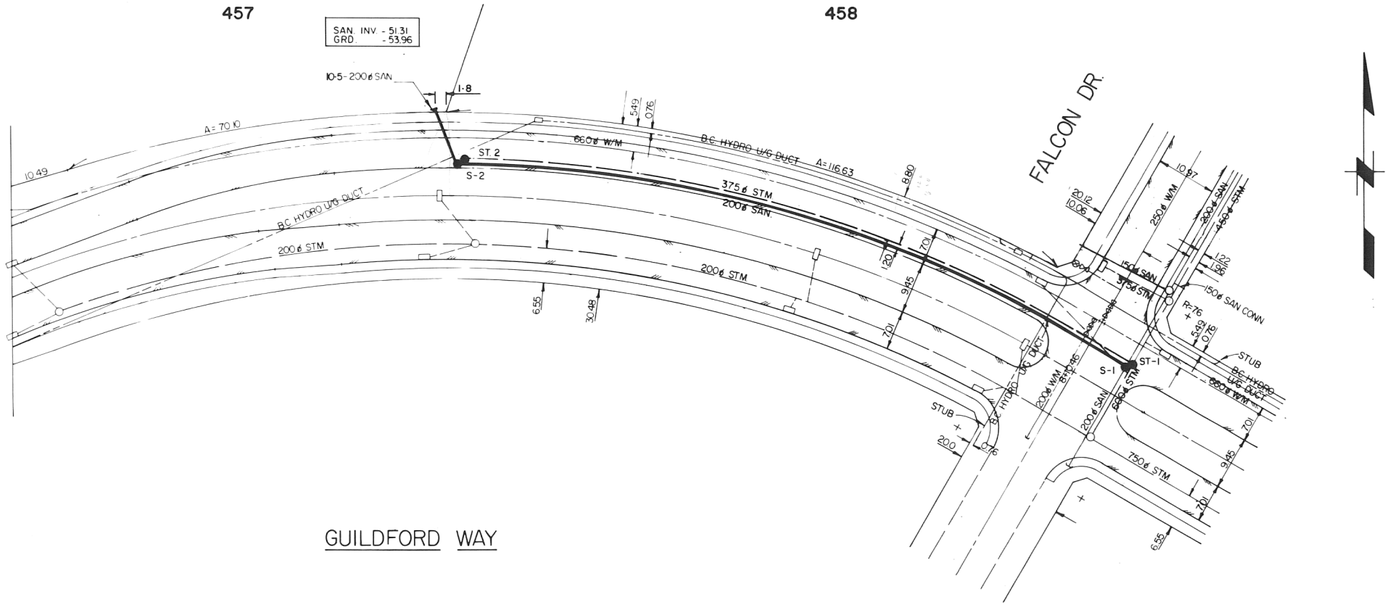
B.A.C.M. DEVELOPMENT CORPORATION LIMITED

EAGLE RIDGE SUBDIVISION STAGE 1
SANITARY SEWER AS CONSTRUCTED
ROAD ~~'J'~~ FALCON DR

DESIGN - CLM		FILE NO.	
DRAWN - TSC		DRAWING NO.	REV.
CHECKED - F.C.F		711-844	
DATE	SCALE AS SHOWN		

S-492

Invert elevation noted on the asbuilt are based on the the GVSDD datum.
Subtract 27.850m for Geodetic invert elevations.



IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

130.40 - 200ø @ 2.50%

9+50	9130.40 5113.E 5114N	9+00	8+50	8+0.46	8102.72 47.76N.W 47.75S	8+00
						CHAINAGE

SANITARY SEWER INVERT LENGTH & GRADE

REVISION	DATE	BY
2 AS CONSTRUCTED	3-4-81	J.L.H.
1 GENERAL REVISION, EX VALVES REVISED	30-10-80	CLW

NO	REVISION	DATE	BY

DESIGN C.L.W
DRAWN J.B.
CHECKED F.C.F
DATE JULY 31, 1980

EAGLE RIDGE STAGE 5A
SANITARY SEWER DESIGN
GUILDFORD WAY
AS CONSTRUCTED

GENSTAR DEVELOPMENT COMPANY
A MEMBER OF THE GENSTAR GROUP OF COMPANIES

SCALE HORIZ 1:500 VERT 1:50
DRAWING NO 715-641A
SHEET __ OF ____ REVISION 2

S - 572

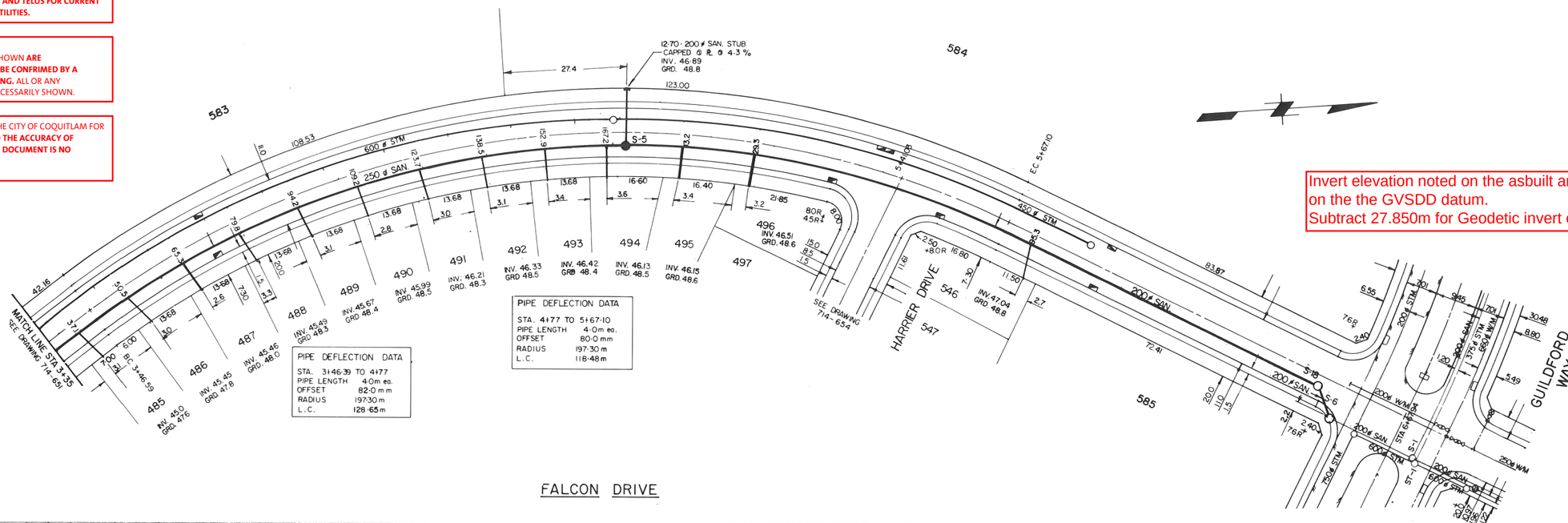
IMPORTANT:
HYDRO, GAS AND TELEPHONE **ARE NOT LOCATED** ON THE CITY OF COQUITLAM AS-BUILTS.
CONTACT BC HYDRO, TERASEN GAS AND TELUS FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN **ARE APPROXIMATE ONLY** AND **SHOULD BE CONFRIMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

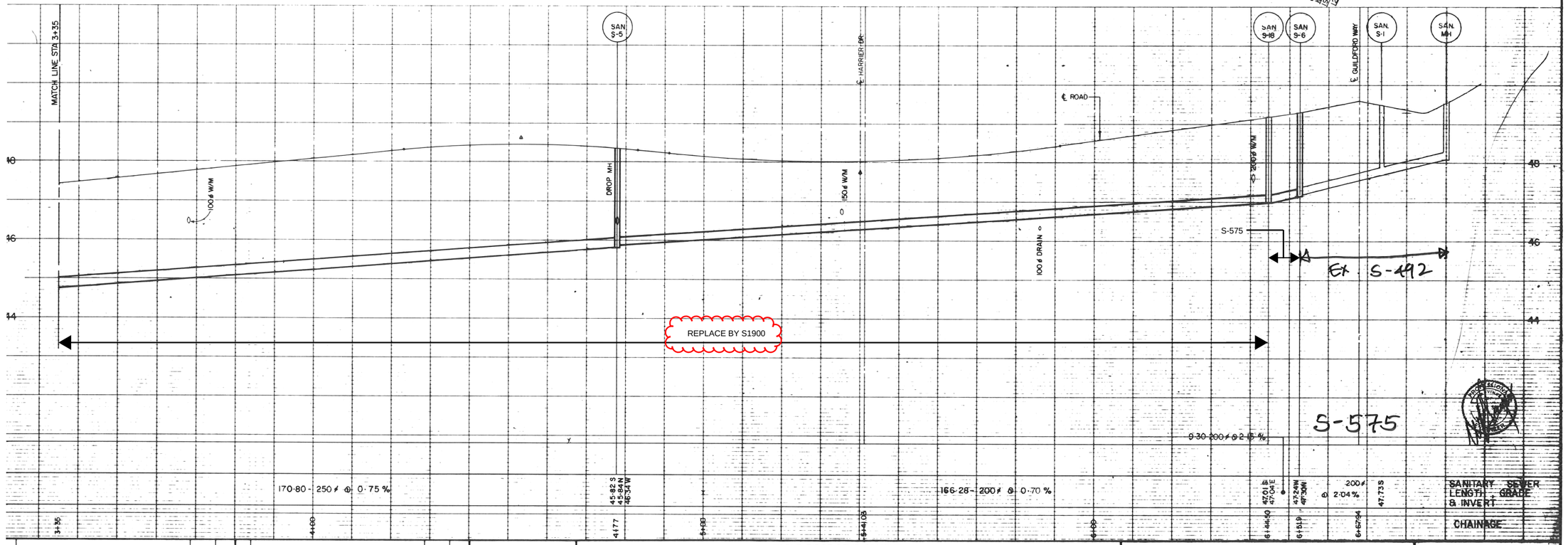
THIS PHOTOCOPY IS SUPPLIES BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND **THE ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NO WAY GUAARENTEED BY THE CITTY.**

NOTES
1.) ALL CHAINAGES AND LENGTHS ARE IN METRES, PIPE SIZES ARE IN MILLIMETRES.
2) ALL CURB RADII ARE 8·0 m UNLESS OTHERWISE NOTED.
3.) FOR SANITARY NOTES SEE DWG. 714-615.
4) GEODETIC ELEVATION= ELEVATION – 27.85 METERS

Invert elevation noted on the asbuilt are based on the the GVSDD datum.
Subtract 27.850m for Geodetic invert elevations.



FALCON DRIVE



NO	REVISION	DATE	BY
1	AS CONSTRUCTED	29.12.81	PR.

DESIGN C.L.W.
DRAWN J.B., k.o.j.
CHECKED L.L., W.R.S.
DATE APRIL, 1981

EAGLE RIDGE DEVELOPMENT
STAGE IV
FALCON DR. (3+35-GUILDFORD WAY)
SANITARY SEWER

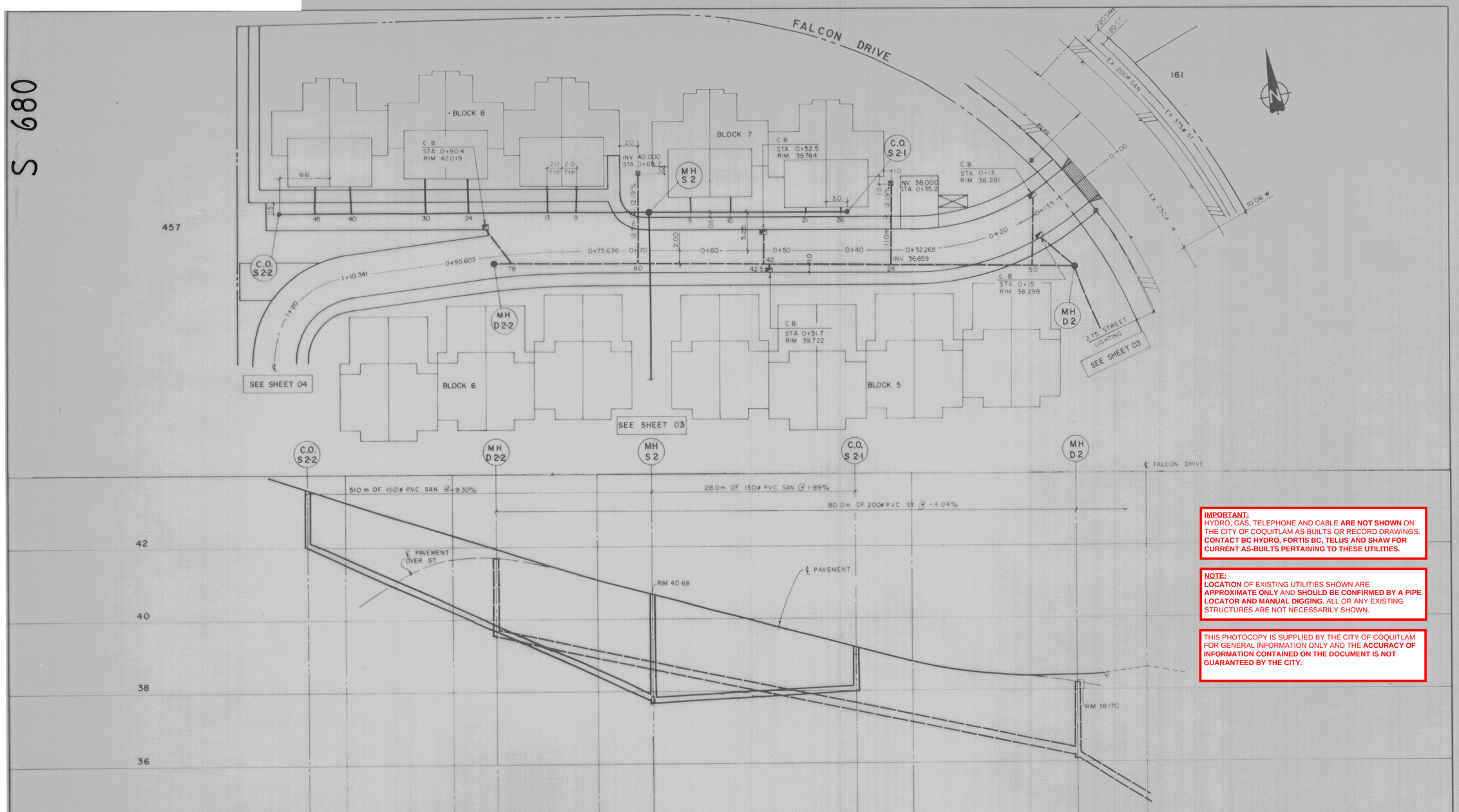
AS CONSTRUCTED

GENSTAR DEVELOPMENT COMPANY
A MEMBER OF THE GENSTAR GROUP OF COMPANIES

SCALE HORIZ 1:500 VERT 1:50
DRAWING NO 714-652
SHEET 40

S - 575

S 680



IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

no.	date	by	revisions	chk'd
2	84 03	FSA	RECORD DRAWING	
1	82 04	PCL	ORIGINAL REVISION AS PER COQUITLAM REQUIREMENTS	

Allan & Ashford Ltd.
consulting engineers surveyors

designed BHP
drawn
checked
date MARCH, 1982

PROFESSIONAL ENGINEER OF BRITISH COLUMBIA PAUL C. LEE

approved for construction
approval date

client VANAC DEVELOPMENT CORP.
project FERNLEAF PLACE COQUITLAM, B.C.

title STORM & SANITARY STA. 0+00 to 1+18.573

scales horiz. 1:250 vert. 1:50

drawing no.		sht	rev
2634	AC	02	2

cooper tanner and associates ltd.
vancouver 732-7451
victoria 385-2478.

S·680-1 cta

IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

MH S 2 — SEE SHEET 02 — 5.25 — 2.00 — SEE SHEET 02

BLOCK 6 — BLOCK 5 — BLOCK 3

MH D 2 — FALCON DRIVE — MH S5.1 — MH S1 — C.O. S1-1

3.0 — 1.8 — 2.65 — 2.0 TYP. — 2.0 TYP.

37 — 33 — 24 — 20 — 11 — 7 — 58 — 54 — 45 — 41 — 31 — 27 — 18 — 14

10 — 8.5m @ 2.0% — 14 — 10 — INV 32.82

MH D1 — EX. 375ø ST. — 2.75 ST. LIGHT.

10.06 W — 2.20 SAN. — 1.20 ST. — EX. 250ø W. — EX. 375ø ST. — EX. 200ø ST.

EX. D MH — EX. S MH

MH S5.1 — MH D1 — EX. S MH — EX. D MH — MH S5.1 — MH S5

W ℄ — ℄ FALCON DR. — E P

EXIST. 21.0m OF 375ø ST. @ 2.00% — 35.0 m OF 200ø PVC. @ 12.343 %

C.O. S H — MH S2 — MH S1 — MH D2 — MH S5

RIM 40.68 — 32.0 m OF 200ø PVC @ 9.547 % — 39.0 m OF 150ø P.V.C. @ 4.200 %

SEE SHEET 05

65.5 m OF 200ø PVC. @ 5.354 % — 41.9 m OF 200ø PVC @ 14.718 %

RIM 35.657 — GROUND OVER PIPE — APPROX. GROUND — RIM 28.08

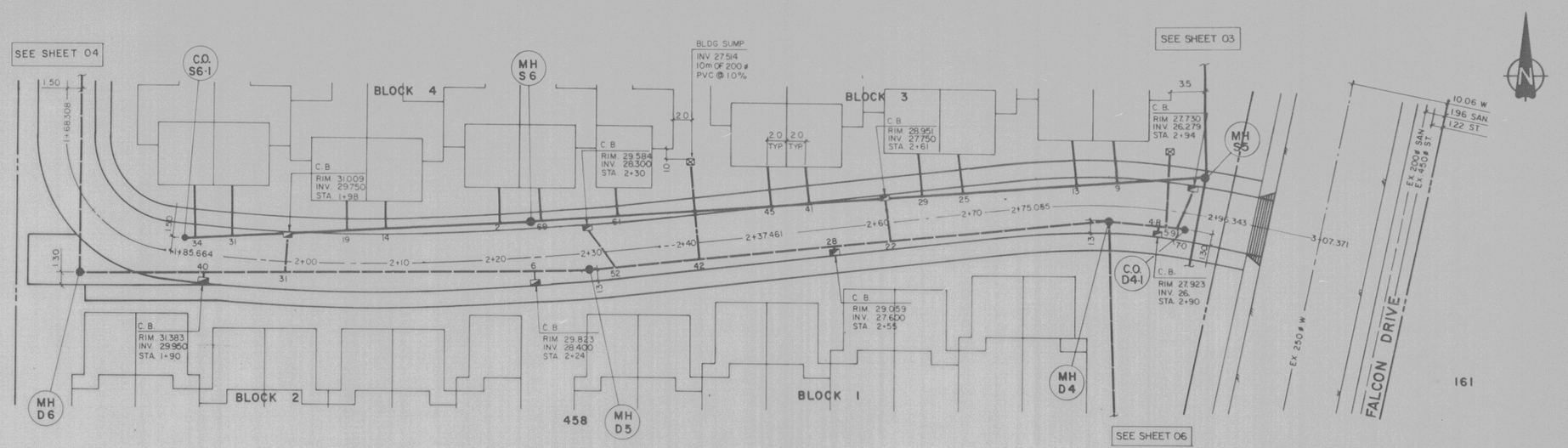
38 — 36 — 34 — 32 — 30 — 32 — 30 — 28 — 26

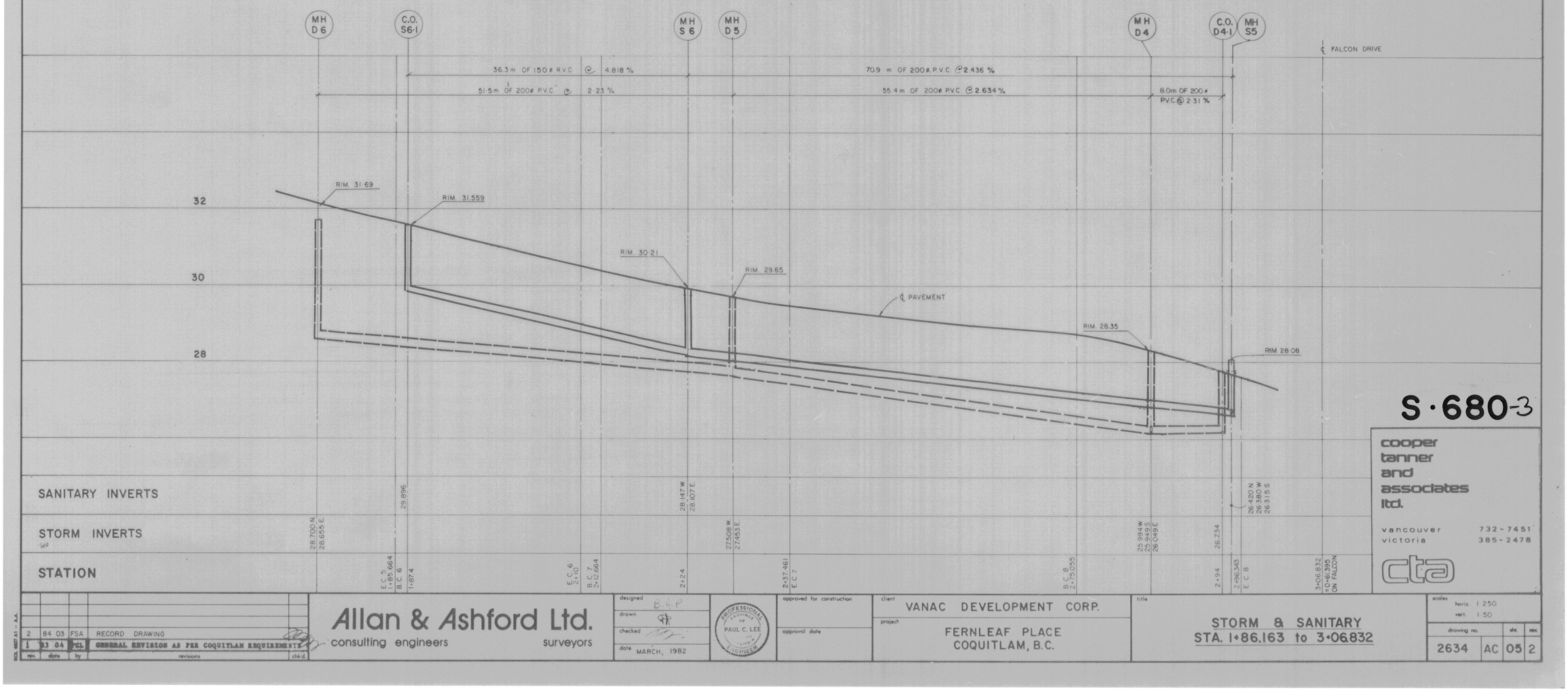
| | | |

IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**





S·680-3

cooper tanner and associates ltd.
vancouver 732-7451
victoria 385-2478

rev.	date	by	revisions	chk'd
2	84 03	FSA	RECORD DRAWING	
1	83 04	PCL	GENERAL REVISION AS PER COQUITLAM REQUIREMENTS	

Allan & Ashford Ltd.
consulting engineers surveyors

designed B.H.P
drawn
checked
date MARCH, 1982

PROFESSIONAL ENGINEER PROVINCE OF B.C. PAUL C. LEE

approved for construction
approval date

client VANAC DEVELOPMENT CORP.
project FERNLEAF PLACE COQUITLAM, B.C.

title STORM & SANITARY STA. 1+86.163 to 3+06.832

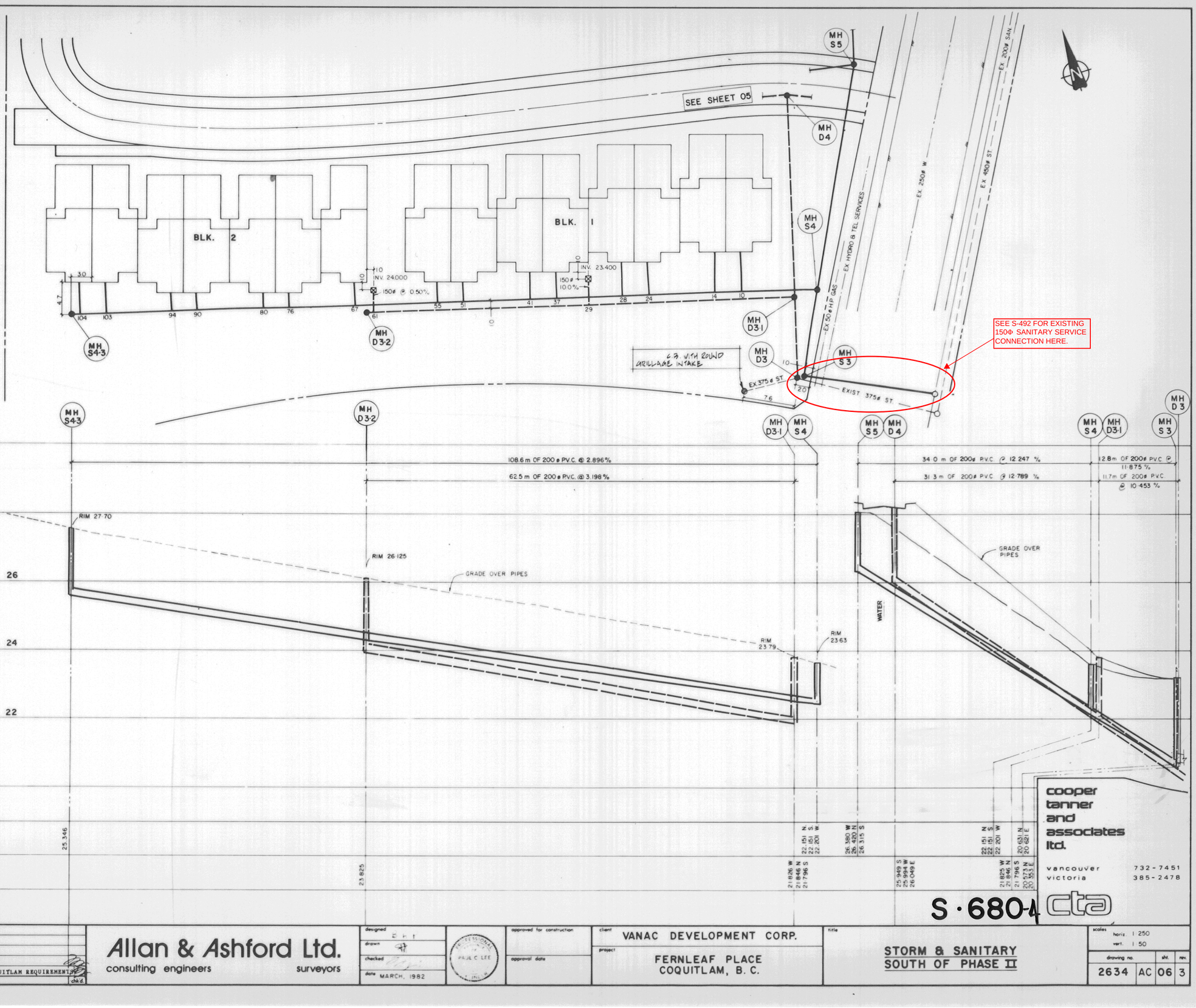
scales horiz. 1:250 vert. 1:50

drawing no.		sht.	rev.
2634	AC	05	2

IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**



rev.	date	by	revisions	chk'd.
3	84 03	FSA	RECORD DRAWING	
2	83 09	PBL	REVISED AS PER COQ. REQ'T	
1	83 04	EH	GENERAL REVISION AS PER COQUITLAM REQUIREMENTS	

SIZE ARCH A1 - A.A.

Allan & Ashford Ltd.
consulting engineers surveyors

designed EHT
drawn
checked
date MARCH, 1982

PAUL C LEE

approved for construction
approval date

client VANAC DEVELOPMENT CORP.
project FERNLEAF PLACE
COQUITLAM, B. C.

title **STORM & SANITARY SOUTH OF PHASE II**

scales horiz. 1:250
vert. 1:50
drawing no. 2634 AC 06
sht. 3
rev.

cooper tanner and associates ltd.
vancouver 732-7451
victoria 385-2478

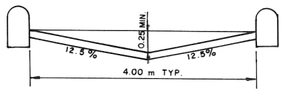
S·680-4

IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

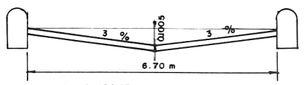
THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

DETAIL 1
SWALE SECTION IN WALKWAY ONLY
NOT TO SCALE

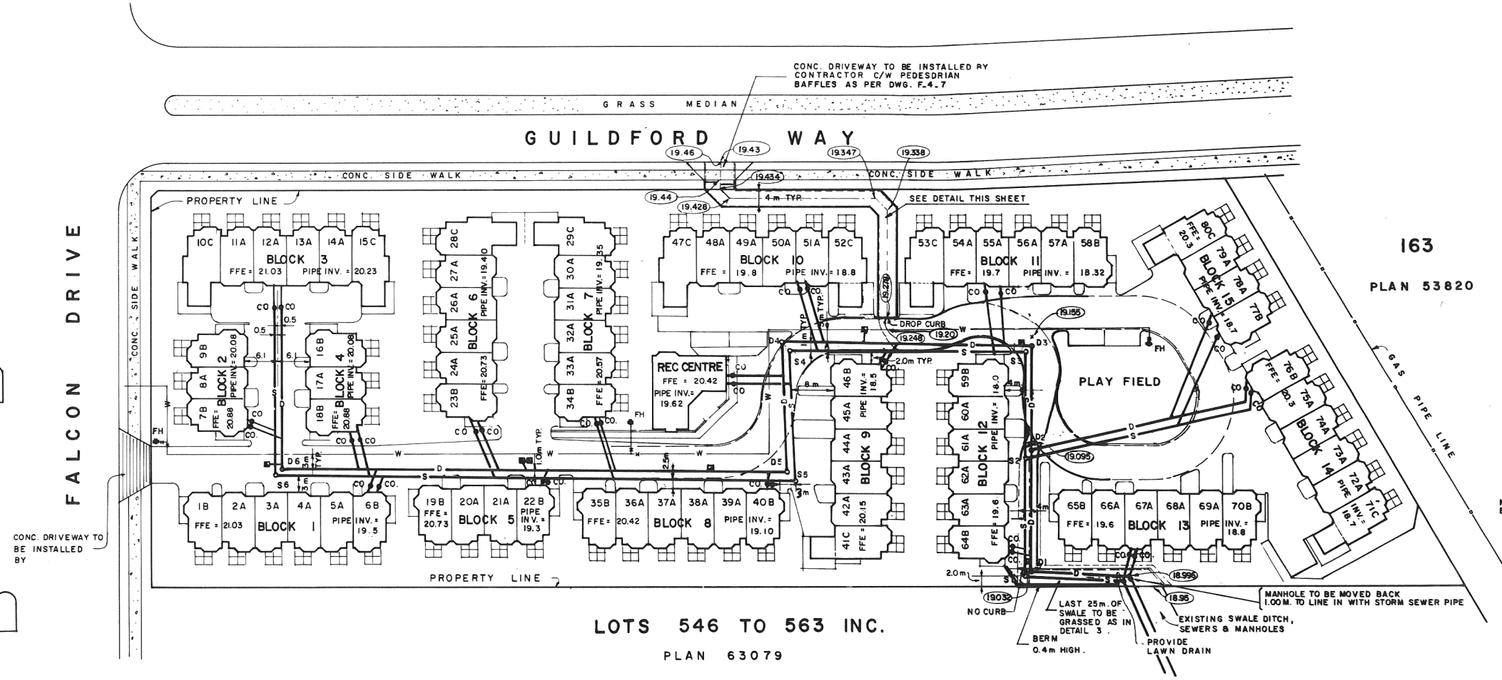


1 - CURB TYPE AS SHOWN ON DWG. F-4-3 D.O. COQUITLAM SPECS.
2. ASPHALT 50mm ON 100mm 19mm CRUSH COMPACTED TO 95% MPD.

DETAIL 2
SWALE SECTION IN ROADWAY ONLY
NOT TO SCALE



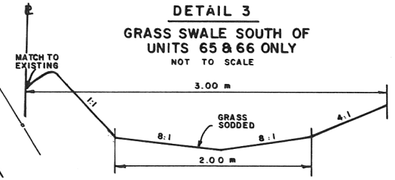
1. CURB AS ABOVE.
2. ASPHALT AS ROAD SPECS.



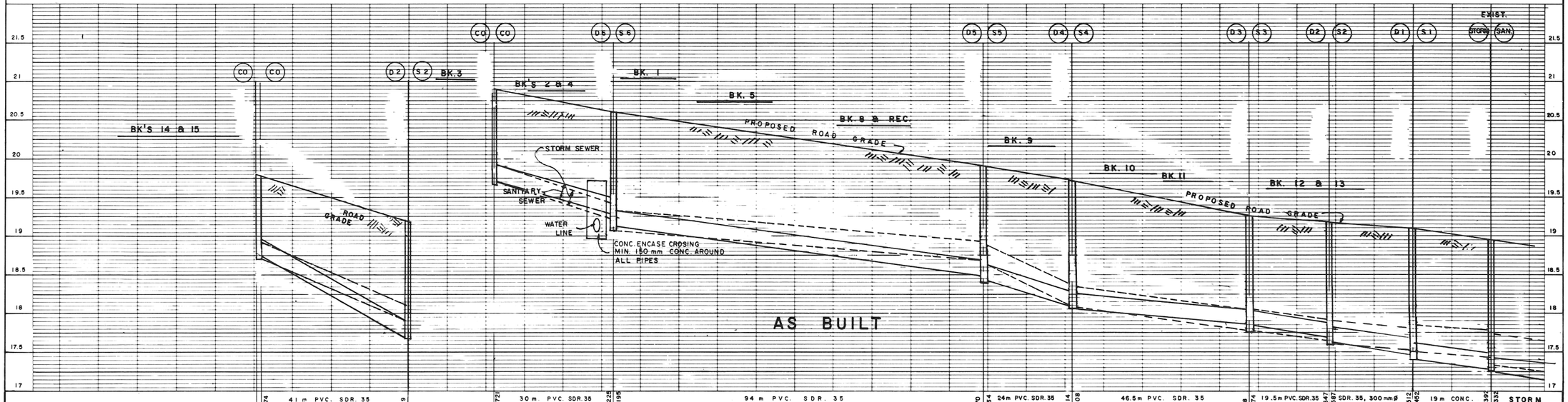
NOTES:

1. BM. IS MON # 77H6917 IN THE CURB SOUTH SIDE OF GUILDFORD WAY EAST OF FALCON DRIVE AT 20.516 m. GEODETIC.
2. ALL STORM & SANITARY WORK TO CLEANOUTS TO BE COMPLETED IN ACCORDANCE WITH THE DISTRICT OF COQUITLAM ENGINEERING SPECIFICATIONS.
3. MORGAN STEWART & COMPANY DOES NOT TAKE RESPONSABILITY FOR ANY INSPECTIONS UNLESS AN AGREEMENT IS REACHED WITH UNITED PROPERTIES LIMITED.
4. THE SANITARY SEWER PROFILE IS SLIGHTLY OUT OF SCALE TO FACILITATE CLARITY.
5. CONTRACTOR TO EXPOSE ALL CONNECTIONS BEFORE COMMENCING PIPE LAYING.
6. ELEVATIONS SHOW IN ELLIPSE'S ARE PROPOSED.
7. CB's ARE TO BE CENTRED IN ROAD WAY.
8. ALL SERVICE CONNECTIONS TO STOP 1.0m. FROM THE FACE OF BLDG'S. AND TO TERMINATE WITH CLEAN OUTS.
9. CONCRETE CURB AS SHOW IN DWG. F-4-3 TO BE INSTALLED ALONG ROUTE OF SWALE DITCH AND 1.0m. BACK FROM SIDES OF SWALE.
10. CIVIL CONTRACTOR TO CONSULT ARCHITECTS DRAWINGS FOR BUILDING LAYOUT AND THEREFORE SEWER LAYOUT.
11. SUMPS 600 mm ø x 1030 mm DEEP TO BE INSTALLED BEFORE CONNECTION TO STORM CONNECTION AT EACH BUILDING.
12. EXISTING STORM MANHOLE TO BE MOVED NORTH 1.00M. TO LINE IN WITH STORM LINE. MANHOLE NOT TO BE TAKEN APART BUT MOVED AS ONE UNIT AND EXTRA BASE 100mm ± PLACED UNDER. EXISTING GRADES TO BE MAINTAINED. EXISTING PIPE FROM EASEMENT TO BE EXTENDED TO NEW POSITION AND REGOUTED.

DETAIL 3
GRASS SWALE SOUTH OF UNITS 65 & 66 ONLY
NOT TO SCALE



13 - CLEAN OUT TO BE TO DWG. F-1-6 ON MAIN LINES AND IN TRAVELLED AREAS AND TO DWG. F-1-5 ON UNTRAVELLED AREAS.



ISSUE No	DESCRIPTION	BY	DATE
E	NOTES AS PER COQUITLAMS		
A	ISSUED FOR CLIENT APPROVAL	D.O.S	APR. 1984
B	FINISHED FLOOR ELEVATIONS & PIPE INVERTS REVISED	D.O.S.	APR. 1984
C	SUMP DEPTH CHANGED & M.H. INVERTS	D.O.S.	MAY 1984
D	GRADES & PIPE SIZES CHANGED AS PER COQUITLAM	D.O.S.	JUNE 1984
F	REVISIONS AS PER "AS BUILT" INFO		

DESIGNED D.O.S
DRAWN T.V.
CHECKED I.S.
APPROVED
SCALES 1 : 500, 1 : 25

MORGAN STEWART AND COMPANY LIMITED
Engineers & Surveyors
760 Denman Street, VANCOUVER, B.C. V6G 2L5

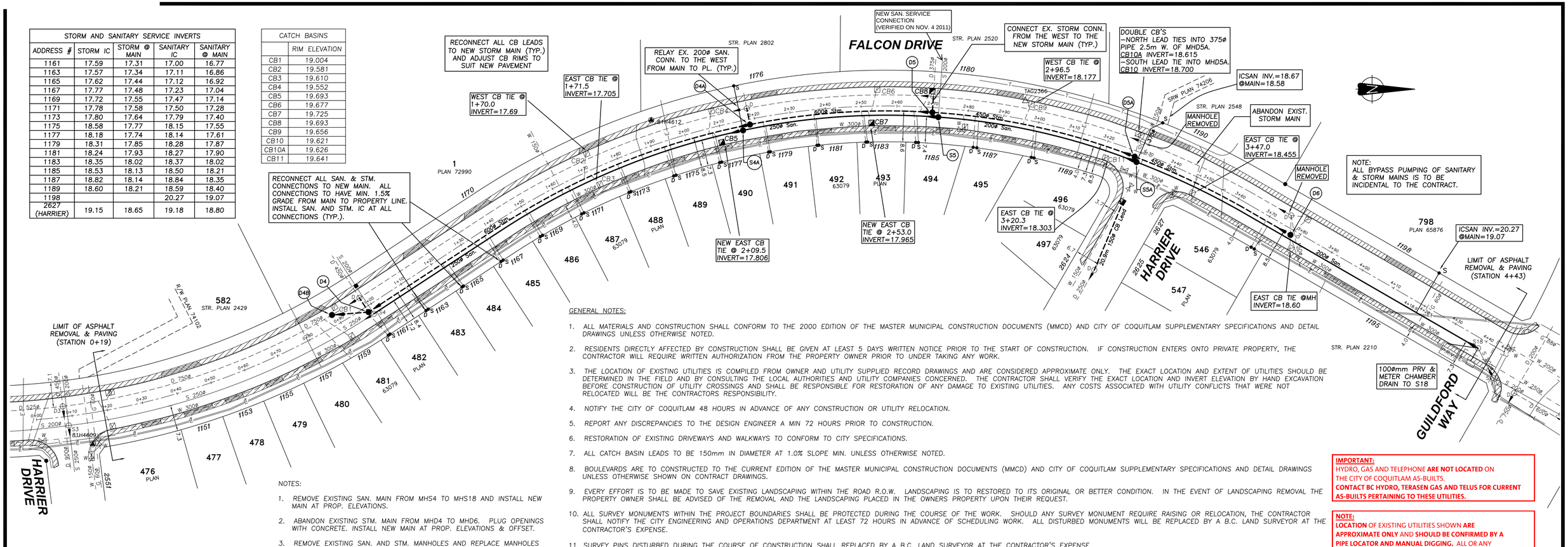
CLIENT: UNITED PROPERTIES LTD.
PROJECT: THE COURT YARDS STORM & SANITARY SEWERS

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA L. STREU

JOB No 3573
DATE
SHEET 2 OF 4
DRAWING No 3573 - 2
ISSUE No F

STORM AND SANITARY SERVICE INVERTS				
ADDRESS #	STORM IC	STORM @ MAIN	SANITARY IC	SANITARY @ MAIN
1161	17.59	17.31	17.00	16.77
1163	17.57	17.34	17.11	16.86
1165	17.62	17.44	17.12	16.92
1167	17.77	17.48	17.23	17.04
1169	17.72	17.55	17.47	17.14
1171	17.78	17.58	17.50	17.28
1173	17.80	17.64	17.79	17.40
1175	18.58	17.77	18.15	17.55
1177	18.18	17.74	18.14	17.61
1179	18.31	17.85	18.28	17.87
1181	18.24	17.93	18.27	17.90
1183	18.35	18.02	18.37	18.02
1185	18.53	18.13	18.50	18.21
1187	18.82	18.14	18.84	18.35
1189	18.60	18.21	18.59	18.40
1198			20.27	19.07
2627 (HARRIER)	19.15	18.65	19.18	18.80

CATCH BASINS	
	RIM ELEVATION
CB1	19.004
CB2	19.581
CB3	19.610
CB4	19.552
CB5	19.693
CB6	19.677
CB7	19.725
CB8	19.693
CB9	19.656
CB10	19.621
CB10A	19.626
CB11	19.641



NOTES:

1. REMOVE EXISTING SAN. MAIN FROM MHS4 TO MHS18 AND INSTALL NEW MAIN AT PROP. ELEVATIONS.
2. ABANDON EXISTING STM. MAIN FROM MHD4 TO MHD6. PLUG OPENINGS WITH CONCRETE. INSTALL NEW MAIN AT PROP. ELEVATIONS & OFFSET.
3. REMOVE EXISTING SAN. AND STM. MANHOLES AND REPLACE MANHOLES TO SUIT NEW GRADES & ELEVATIONS EXCEPT MANHOLE S4 & S18.
4. REMOVE THE REMAINING ASPHALT & RE-GRADE BASE FROM CURB TO CURB AND INSTALL TWO LIFTS OF ASPHALT, 60mm OF LOWER COURSE #1 MMCD, & 50mm OF SUPERPAVE UPPER COURSE FROM HARRIER DR. TO GUILDFORD WAY.
5. REINSTATE TRAFFIC LOOPS ON FALCON & GUILDFORD WAY. INFORM TRAFFIC DEPT. 72 HOURS PRIOR TO REMOVING LOOPS.
6. LIGHTWEIGHT BACKFILL OF THE NEW SANITARY & STORM MAINS TO BE INSTALLED.
7. PIPE BEDDING AS PER MMCD G4.

GENERAL NOTES:

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE 2000 EDITION OF THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD) AND CITY OF COQUITLAM SUPPLEMENTARY SPECIFICATIONS AND DETAIL DRAWINGS UNLESS OTHERWISE NOTED.
2. RESIDENTS DIRECTLY AFFECTED BY CONSTRUCTION SHALL BE GIVEN AT LEAST 5 DAYS WRITTEN NOTICE PRIOR TO THE START OF CONSTRUCTION. IF CONSTRUCTION ENTERS ONTO PRIVATE PROPERTY, THE CONTRACTOR WILL REQUIRE WRITTEN AUTHORIZATION FROM THE PROPERTY OWNER PRIOR TO UNDER TAKING ANY WORK.
3. THE LOCATION OF EXISTING UTILITIES IS COMPILED FROM OWNER AND UTILITY SUPPLIED RECORD DRAWINGS AND ARE CONSIDERED APPROXIMATE ONLY. THE EXACT LOCATION AND EXTENT OF UTILITIES SHOULD BE DETERMINED IN THE FIELD AND BY CONSULTING THE LOCAL AUTHORITIES AND UTILITY COMPANIES CONCERNED. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND INVERT ELEVATION BY HAND EXCAVATION BEFORE CONSTRUCTION OF UTILITY CROSSINGS AND SHALL BE RESPONSIBLE FOR RESTORATION OF ANY DAMAGE TO EXISTING UTILITIES. ANY COSTS ASSOCIATED WITH UTILITY CONFLICTS THAT WERE NOT RELOCATED WILL BE THE CONTRACTORS RESPONSIBILITY.
4. NOTIFY THE CITY OF COQUITLAM 48 HOURS IN ADVANCE OF ANY CONSTRUCTION OR UTILITY RELOCATION.
5. REPORT ANY DISCREPANCIES TO THE DESIGN ENGINEER A MIN 72 HOURS PRIOR TO CONSTRUCTION.
6. RESTORATION OF EXISTING DRIVEWAYS AND WALKWAYS TO CONFORM TO CITY SPECIFICATIONS.
7. ALL CATCH BASIN LEADS TO BE 150mm IN DIAMETER AT 1.0% SLOPE MIN. UNLESS OTHERWISE NOTED.
8. BOULEVARDS ARE TO CONSTRUCTED TO THE CURRENT EDITION OF THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD) AND CITY OF COQUITLAM SUPPLEMENTARY SPECIFICATIONS AND DETAIL DRAWINGS UNLESS OTHERWISE SHOWN ON CONTRACT DRAWINGS.
9. EVERY EFFORT IS TO BE MADE TO SAVE EXISTING LANDSCAPING WITHIN THE ROAD R.O.W. LANDSCAPING IS TO RESTORED TO ITS ORIGINAL OR BETTER CONDITION. IN THE EVENT OF LANDSCAPING REMOVAL THE PROPERTY OWNER SHALL BE ADVISED OF THE REMOVAL AND THE LANDSCAPING PLACED IN THE OWNERS PROPERTY UPON THEIR REQUEST.
10. ALL SURVEY MONUMENTS WITHIN THE PROJECT BOUNDARIES SHALL BE PROTECTED DURING THE COURSE OF THE WORK. SHOULD ANY SURVEY MONUMENT REQUIRE RAISING OR RELOCATION, THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEERING AND OPERATIONS DEPARTMENT AT LEAST 72 HOURS IN ADVANCE OF SCHEDULING WORK. ALL DISTURBED MONUMENTS WILL BE REPLACED BY A B.C. LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
11. SURVEY PINS DISTURBED DURING THE COURSE OF CONSTRUCTION SHALL REPLACED BY A B.C. LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
12. THE CONTRACTOR SHALL PROVIDE CONSTRUCTION SIGNAGE, BARRIERS, FLASHING INDICATORS, ETC. AT ALL TIMES TO ENSURE THE SAFETY OF THE PUBLIC. TRAFFIC CONTROL WILL BE REQUIRED FOR ALL CONSTRUCTION WORKS WITHIN THE TRAVELED PORTION OF THE ROAD. NO ROAD SHALL BE CLOSED WITHOUT THE WRITTEN CONSENT OF THE DIRECTOR OF ENGINEERING AND OPERATIONS.
13. ALL PUBLIC ROADWAYS AFFECTED BY THE WORKS SHALL BE KEPT IN A CLEAN STATE AT ALL TIMES. DUST CONTROL MEASURES SHALL BE EMPLOYED DURING THE COURSE OF THE WORK.
14. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, AND FOR COORDINATING THE VARIOUS PARTS OF THE WORK. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THERE IS NO DISRUPTION TO SERVICE, AND IF DISRUPTION IS ANTICIPATED, TO NOTIFY THE DESIGN ENGINEER A MINIMUM OF 72 HOURS PRIOR, AND OBTAIN APPROVAL FOR THE DISRUPTION.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL EXCAVATED MATERIAL UNSUITABLE FOR REUSE AT A SUITABLE OFF-SITE DISPOSAL AREA, IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
16. CONTRACTOR TO MAINTAIN AN UP TO DATE SET OF AS-CONSTRUCTED DRAWINGS AT ALL TIMES. AS-CONSTRUCTED DRAWINGS TO BE DELIVERED TO THE ENGINEER AT SUBSTANTIAL PERFORMANCE FOR PREPARATION OF FINAL RECORD DRAWINGS.

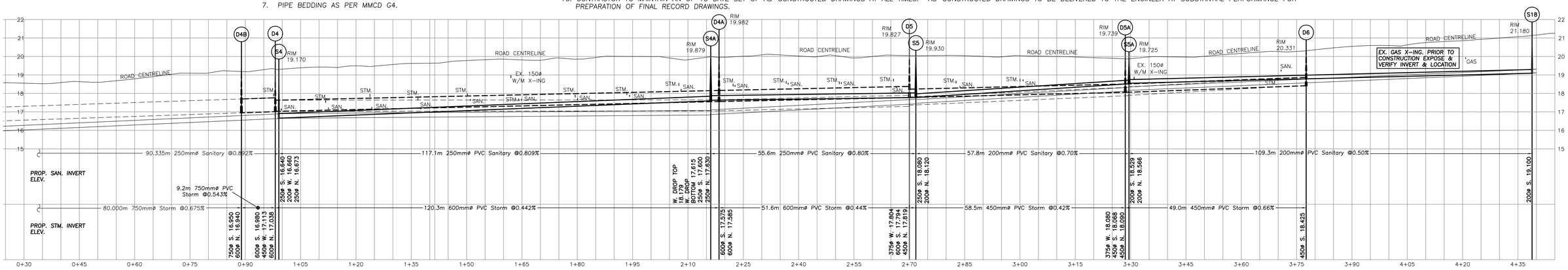
SUPPLEMENTARY LEGEND

- Iron pin found
- Lead Plug found
- Control point placed
- Control monument found

IMPORTANT:
HYDRO, GAS AND TELEPHONE **ARE NOT LOCATED** ON THE CITY OF COQUITLAM AS-BUILTS.
CONTACT BC HYDRO, TERASEN GAS AND TELUS FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN **ARE APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND **THE ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NO WAY GUARANTEED BY THE CITY.**



COQ. ASBUILT No.
D2544
S1900

PROJECT# 85181

	EXISTING	PROPOSED		EXISTING	PROPOSED		EXISTING	PROPOSED		EXISTING	PROPOSED
Edge of pavement			Drainage sewer, MH			Sanitary sewer, MH			U/G signal/light duct		
Asphalt curb			Drainage service, Cleanout			Sanitary service, Cleanout			Streetlight, davit		
Concrete sidewalk			Catch basin, top inlet			Sanitary sewer, forcemain			Streetlight, post top		
Concrete curb			Catch basin, side inlet			U/G electrical duct, MH			Traffic signal pole		
Watermain and valve			Catch basin, round			Utility pole			Traffic signal post		
Water service box/curb stop			Swale			Utility pole with light			Traffic street sign		
Hydrant			Ditch			Junction box			Flasher		
Water blowoff			Culvert			U/G telecommunication, MH			Signal fixture		
Water air valve			Inlet/Outlet Structure			U/G gas main and valve			Combination traffic signal pole		

Destroy All Prints Bearing Rev. No. less than one indicated below

REV.	DATE	REVISION
1	SEP 12 11	CB ELEVATIONS ADDED

Coquitlam
Engineering & Public Works
3000 Guildford Way, Coquitlam, B.C. V3B 7N2

Project: FALCON DRIVE

Harrier Dr. to Guildford Dr.
Sewer Rehab. & Paving

DESIGNED	SCALE Horiz. 1:500 Vert. 1:100	DATE JAN 4 09
DRAWN A.S.K.	DWG FILE: 11Falcon01071611A0	
CHECKED	SHEET 1 OF 1	REV. 1
APPROVED		

PLOT DATE/TIME: Tuesday, September 13, 2011 9:26:31 AM

W-659-8

26" I.D. x 1/4" PL, BELL & SPIGOT WELDED JOINT STEEL PIPE - API 5LX52

20" B.F.V. CHAMBER 4" A.V. & G.B.D. SEE SH. 14

PIPE MATCH STA. 87+88.5

36" CORR. IRON CULV. INV. 171.63

82+86.3 8" CONN. S.

82+81.3 12" CONN. N.

6" B.D. & HATCH (79+28.7)

0.10% 1.07 7.93 % 2.82 % 3.23 % 2.57 % 5.00 % 1.19 % 0.24 % 1.01 % 0.77 % 1.92 %

CHAINAGE	INVERT ELEVATION
89+78.3	184.50
89+62.3	184.50
89+29.6	184.85
86+99.1	168.50
85+80.2	165.00
84+61.3	160.80
83+42.4	157.75
82+83	153.00
82+23.5	152.29
81+04.6	152.00
79+26.1	150.20
78+07	151.12
76+48.1	154.26

PROFILE
Scale: Horiz. 1" = 50'
Vert. 1" = 10'

NOTE: CHAINAGE READS FROM RIGHT TO LEFT

PORT MOODY

FLOW RECORDER CABINET SEE SH. 19

20'

VALVE CHAMBER P.I. 89+69.3

(1+07.03)

53.7'

12'

GUILDFORD WAY

FUTURE MEDIAN

P.I. 89+47.3 1-CUT MITRE BEND Δ=16°00'

20" O.D. VENTURI CONNECTION SEE SH. 9 & 17

ELECTRICAL SUPPLY DUCT

1PF

(0+00)

CITY OF PORT MOODY PRV STATION

PORT MOODY - COQUITLAM BOUNDARY

12" CONN. STA. 82+81.3

8" CONN. STA. 82+86.3

MATCH LINE

B.D. CHAMBER

EAST-WEST ARTERIAL

PLAN
Scale: 1" = 50'

IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

ABANDONED

THIS DRAWING REDUCED TO HALF SIZE

DRAWING SYMBOLS

- PORT MOODY MAIN No. 2
- TRAVERSE HUB
- IPF IRON POST FOUND
- OOP WOODEN POST FOUND
- HEDGE, TREE
- POWER POLE
- TELEPHONE POLE
- GUY WIRE OR ANCHOR POLE
- WATER MAIN
- WATER VALVE BOX
- WH WATER HOUSE CONNECTION
- FIRE HYDRANT
- S SEWER (EXISTING)
- D STORM DRAIN
- CB CATCH BASIN
- C CULVERT
- G GAS MAIN
- GH GAS HOUSE CONNECTION
- O OIL PIPELINE
- T UNDERGROUND TEL. CABLES
- LPF LEAD PLUG FOUND
- E UNDERGROUND ELEC. CABLES
- LAMP STANDARD
- BASEMENT OR MAIN FLOOR ELEV.
- DITCH
- PAVEMENT
- ROCKERIES
- FENCE
- RODDING INLET OR INSP. CHAMBER
- SH SEWER HOUSE CONN.
- TP TRUNK PRESSURE
- GRADE BREAK
- AIR VALVE (A.V.)
- BLOWDOWN (B.D.)

Notes:
1. All elevations refer to G.V.W.D. datum. G.V.W.D. 91.37 = 0.00 Geodetic.
2. Chainages shown in brackets refer to Preliminary Survey Line.

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA J. Q. MEEK

Issue	Date	Desn	Dr'n	Chkd	App'd	Description
D	APR. '77	J.M.	DCA		B.F.T.	AS CONSTRUCTED
C	OCT. '76		H.K.		B.F.T.	REVISED GRADE BETWEEN 81+04.4 TO 83+19.4
B	OCT. '76		H.K.		B.F.T.	REVISED CONN. SIZE TO 12". GRADE AND GENERAL NOTE FROM 1.3' TO READ 0.6'

GREATER VANCOUVER WATER DISTRICT

Design L.G.M.
Des. Chkd D.C.A.
Drawn/Tr. D.W.N.K.
Dwg Chkd B.F.T.
Submitted
Engineer

PORT MOODY MAIN No. 2
COQUITLAM SECTION
PLAN AND PROFILE

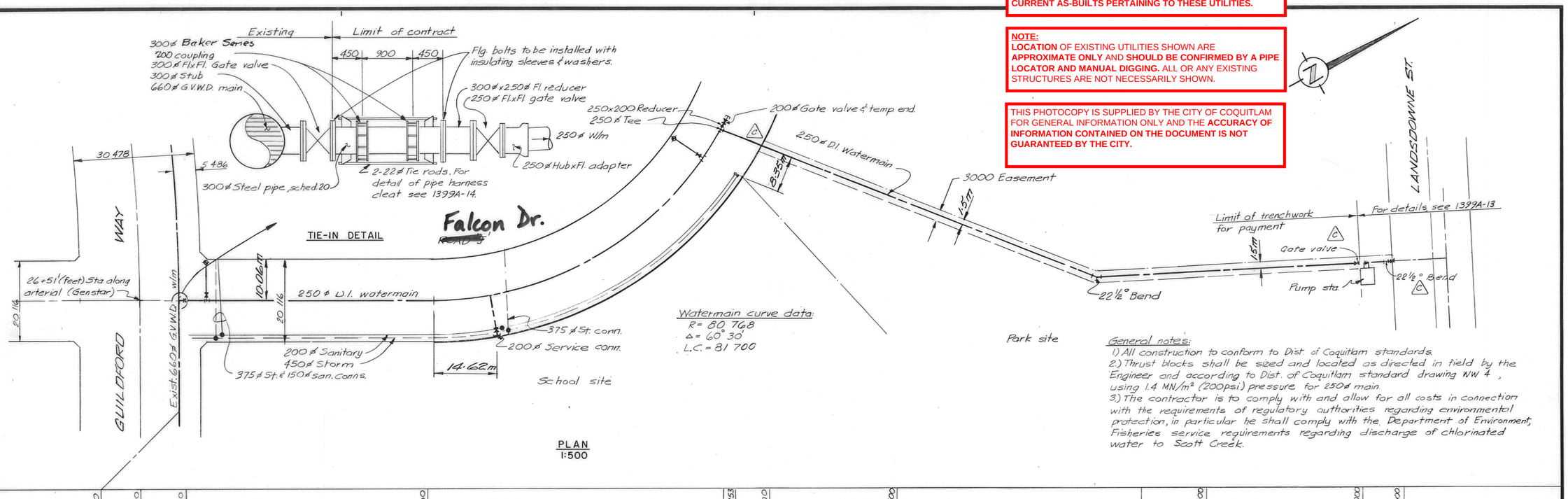
SCALE: As Shown
DATE: August 1976
Sheet 8
DRAWING NO. WF-1409

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → D

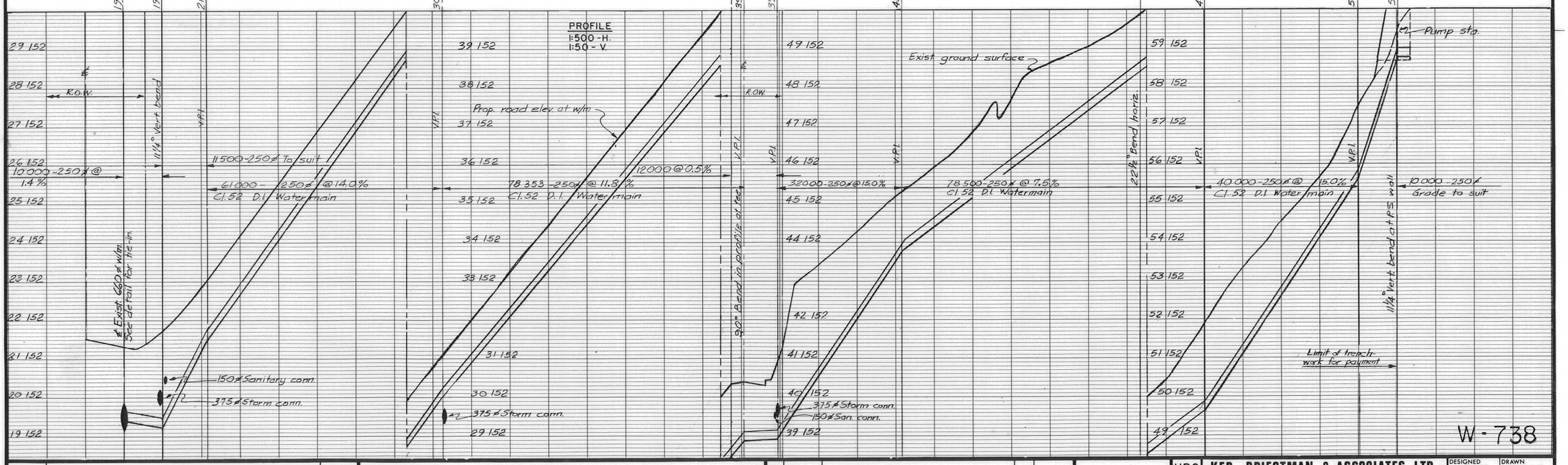
IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**



PLAN
1:500



General notes:
1.) All construction to conform to Dist. of Coquitlam standards.
2.) Thrust blocks shall be sized and located as directed in field by the Engineer and according to Dist. of Coquitlam standard drawing WW 4, using 1.4 MN/m² (200psi) pressure for 250ø main.
3.) The contractor is to comply with and allow for all costs in connection with the requirements of regulatory authorities regarding environmental protection, in particular he shall comply with the Department of Environment, Fisheries service requirements regarding discharge of chlorinated water to Scott Creek.

W-738

DWG. No.	REFERENCE DRAWINGS	DATE

THE CONTRACTOR SHALL CONFIRM THE ACTUAL LOCATION OF ALL SERVICES WITHIN THE AREA OF OPERATIONS, AND SHOULD NOT ASSUME THAT THE LOCATIONS OF SERVICES SHOWN ON THE DRAWINGS ARE EITHER ACCURATE OR COMPLETE.

No.	DATE	REVISIONS	BY	APPROVED
C	Aug. 79	As Constructed	GS	
B	OCT. 78	All elevs. changed to Geodetic	D.D.	
A	Aug. 78	Road, easement, plan & profile revised	D.D.	R.A.F

PROFESSIONAL ENGINEER R.A. FURNESS BRITISH COLUMBIA

KPA **KER, PRIESTMAN & ASSOCIATES LTD.**
consulting engineers and planners
VICTORIA BURNABY ABBOTSFORD PORT HARDY

GENSTAR DEVELOPMENT COMPANY
EAGLE RIDGE SUBDIVISION STAGE 2
PUMP STATION SUPPLY WATERMAIN
PLAN AND PROFILE

DESIGNED R.A.F	DRAWN D.K.D.
DATE JULY, 1978	SCALE AS SHOWN
CHECKED R.A.F.	FILE 1399A
APPROVED	
DWG. No. 1399 A - 12	REV. C

CANCEL PRINTS BEARING EARLIER LETTER

NO. 214 - K.P.A.

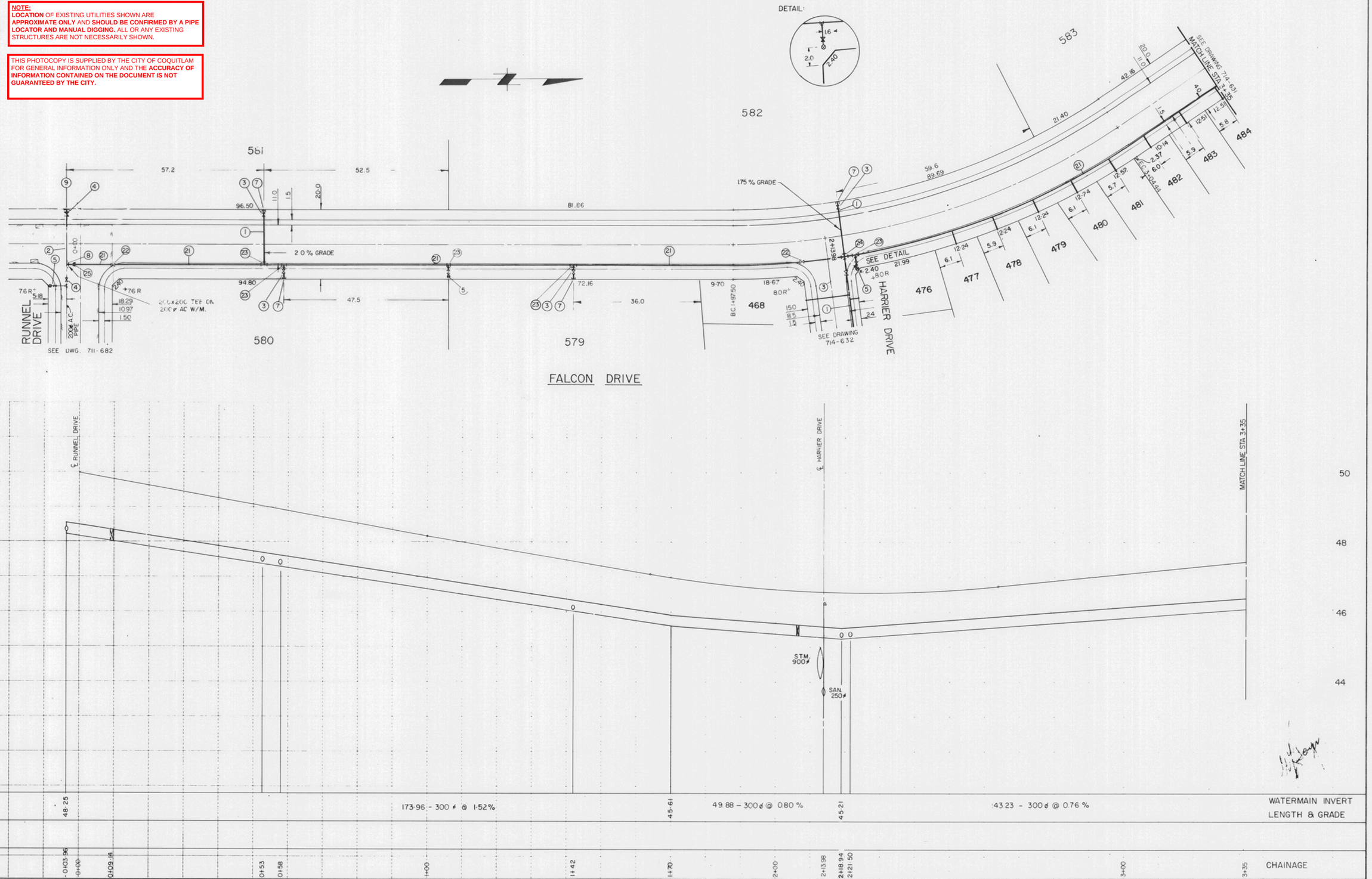
W - 808

IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

NOTES :
1) ALL CHAINAGES AND LENGTHS ARE IN METRES, PIPE SIZES ARE IN MILLIMETRES.
2) ALL CURB RADII ARE 8·0m UNLESS OTHERWISE NOTED.
3) FOR WATERMAIN NOTES AND LEGEND SEE DWG 714-615
4) GEODETIC ELEVATION= ELEVATION – 27.85 METERS



48·25 | 173·96 - 300ø @ 1·52% | 45·61 | 49·88 – 300ø @ 0·80 % | 45·21 | 43·23 - 300ø @ 0·76 % | WATERMAIN INVERT LENGTH & GRADE

0+03·96 | 0+00 | 0+09·14 | 0+53 | 0+58 | 1+00 | 1+42 | 1+70 | 2+00 | 2+13·98 | 2+18·94 | 2+21·50 | 3+00 | 3+35 | CHAINAGE

NO	REVISION	DATE	BY
3	AS CONSTRUCTED	1/12/81	P.R.
2	FIRE HYDRANT ADDED	24/07/81	J.L.H.
1	WATERMAIN RELOCATED	16/07/81	J.L.H.

DESIGN W.L. , C.L.W.
DRAWN J.B. , k.g.j.
CHECKED L.L. , W.R.S.
DATE APRIL, 1981

EAGLE RIDGE DEVELOPMENT
STAGE IV
FALCON DR. (0+00 - 3+35)
WATERMAIN

AS CONSTRUCTED

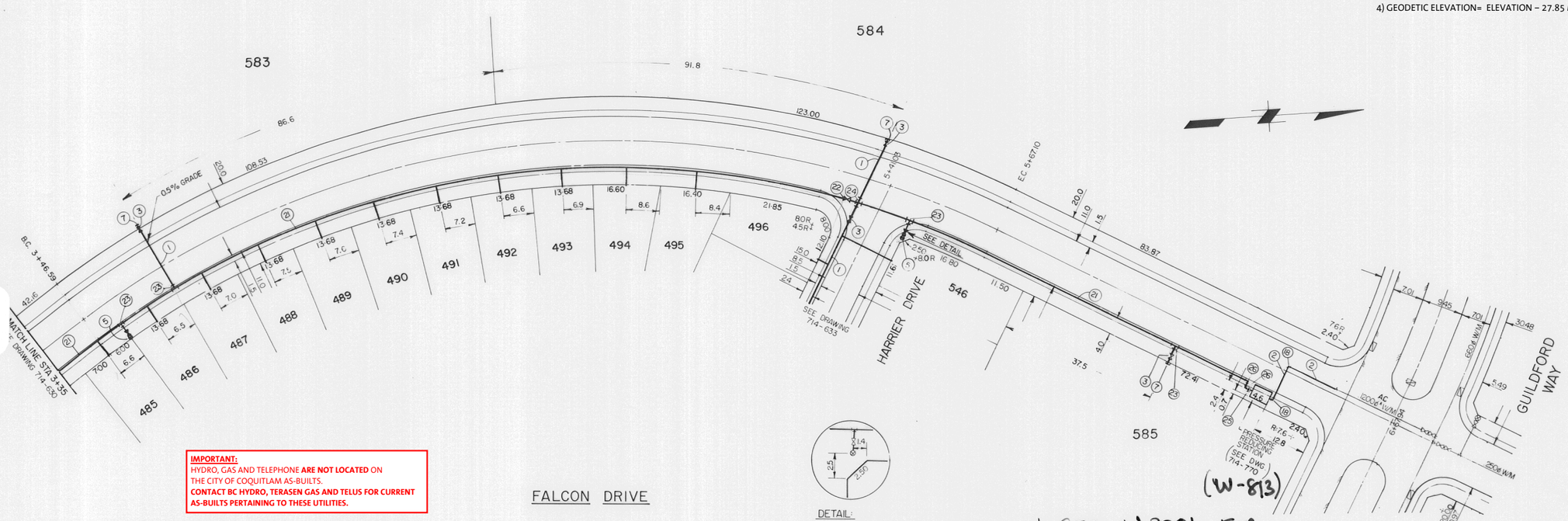
GENSTAR DEVELOPMENT COMPANY
A MEMBER OF THE GENSTAR GROUP OF COMPANIES

SCALE HORIZ 1:500 VERT 1:50
DRAWING NO 714-630
SHEET ___ OF ___ REVISION 3

W - 808

W-809

NOTES :
1) ALL CHAINAGES AND LENGTHS ARE IN METRES, PIPE SIZES ARE IN MILLIMETRES.
2.) ALL CURB RADII ARE 8.0m UNLESS OTHERWISE NOTED.
3.) FOR WATERMAIN NOTES AND LEGEND SEE DWG 714-615.
4) GEODETIC ELEVATION= ELEVATION – 27.85 METERS

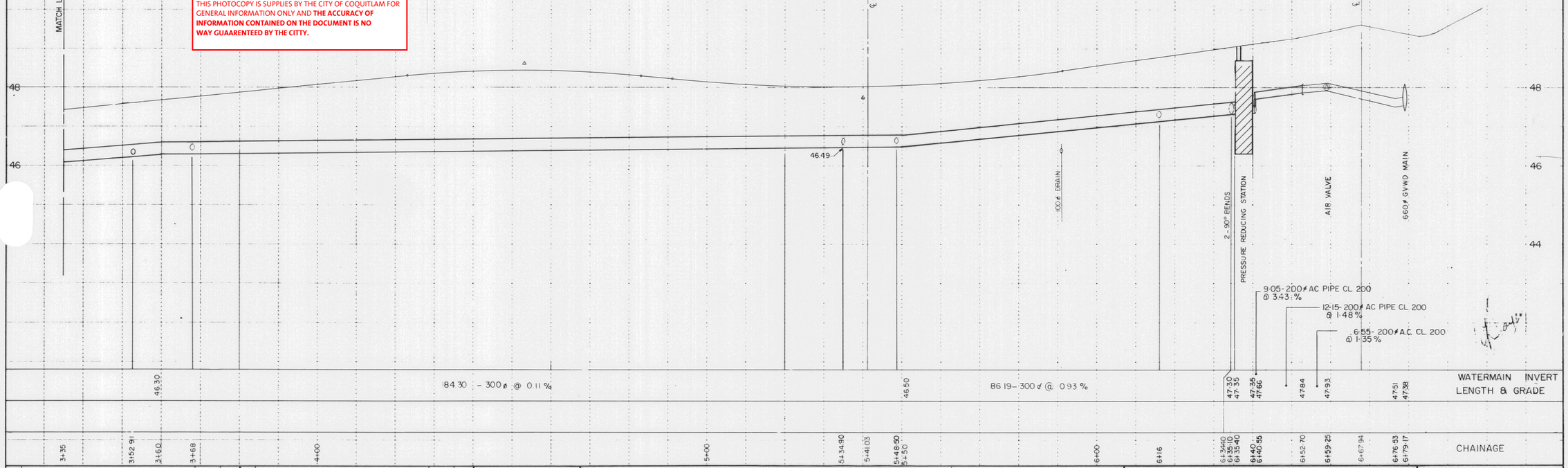


* SEE W2001 FOR FALCON PRV CHAMBER UPGRADE

IMPORTANT:
HYDRO, GAS AND TELEPHONE **ARE NOT LOCATED** ON THE CITY OF COQUITLAM AS-BUILTS.
CONTACT BC HYDRO, TERASEN GAS AND TELUS FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN **ARE APPROXIMATE ONLY** AND **SHOULD BE CONFRIMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIES BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND **THE ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NO WAY GUAARENTEED BY THE CITTY.**



NO	REVISION	DATE	BY
2	AS CONSTRUCTED	2/12/81	P.R.
1	WATERMAIN RELOCATED	16/07/81	J.L.H.

DESIGN W.L. , C.L.W.
DRAWN J.B. , k.o.j.
CHECKED L.L. , W.R.S.
DATE APRIL , 1981

EAGLE RIDGE DEVELOPMENT
STAGE IV
FALCON DR. (3+35 - GUILDFORD WAY)
WATERMAIN

AS CONSTRUCTED

GENSTAR DEVELOPMENT COMPANY
A MEMBER OF THE GENSTAR GROUP OF COMPANIES

SCALE HORIZ 1:500 VERT 1:50
DRAWING NO 714-631
SHEET __ OF __ **REVISION** 2

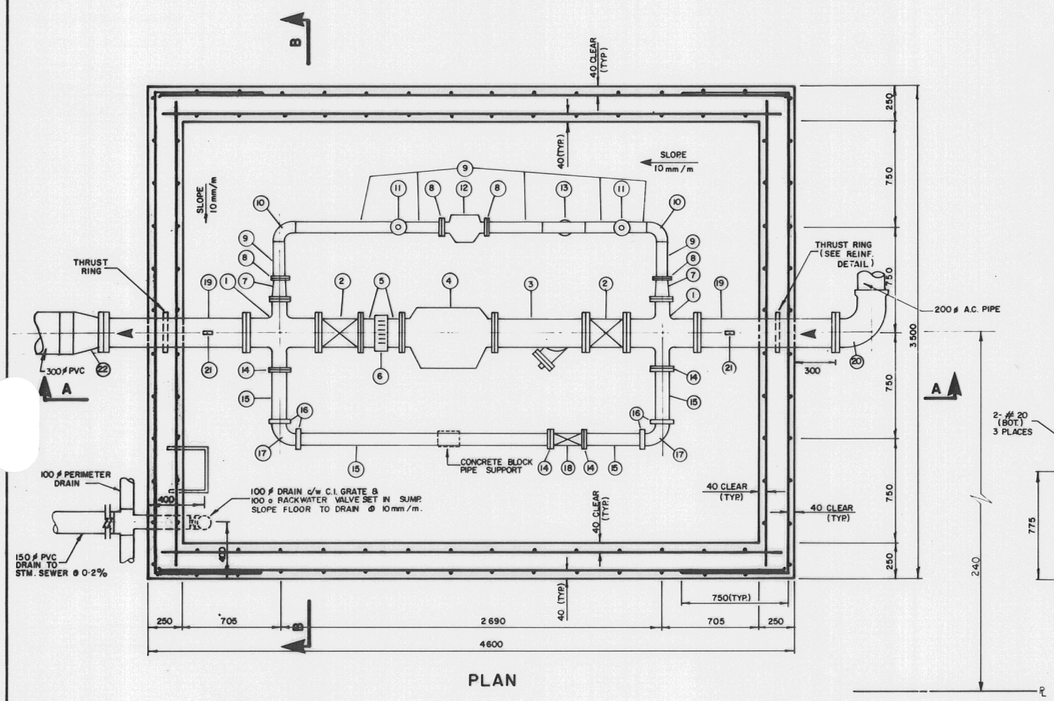
W - 809

W-813

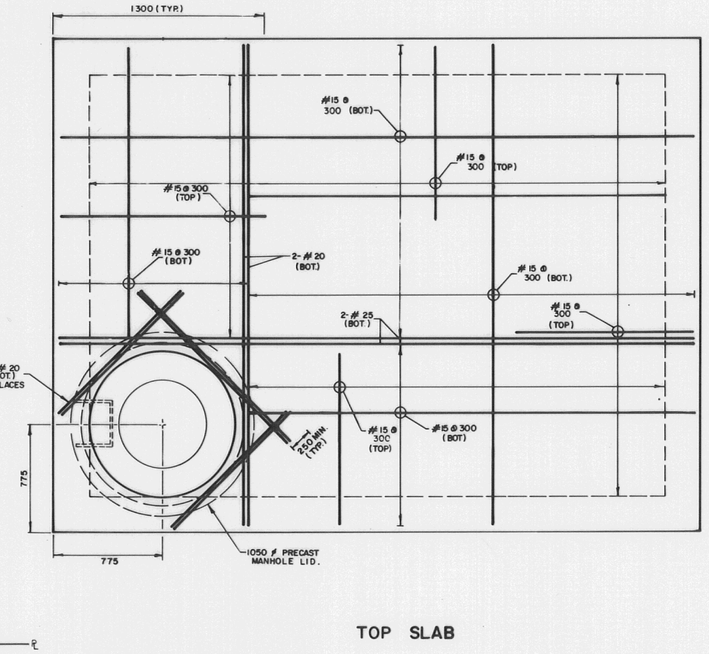
IMPORTANT:
HYDRO, GAS AND TELEPHONE **ARE NOT LOCATED** ON THE CITY OF COQUITLAM AS-BUILTS.
CONTACT BC HYDRO, TERASEN GAS AND TELUS FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN **ARE APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIES BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND **THE ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NO WAY GUAARENTEED BY THE CITY.**



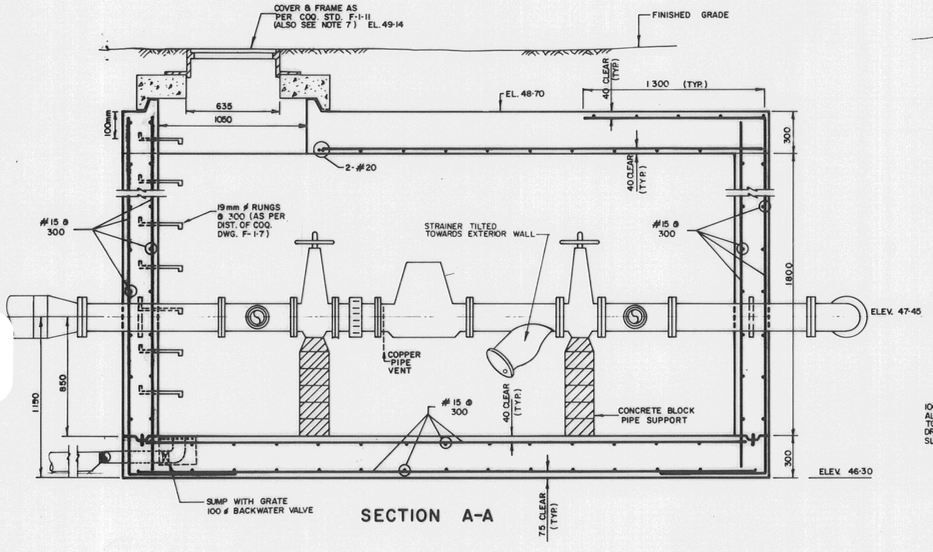
PLAN



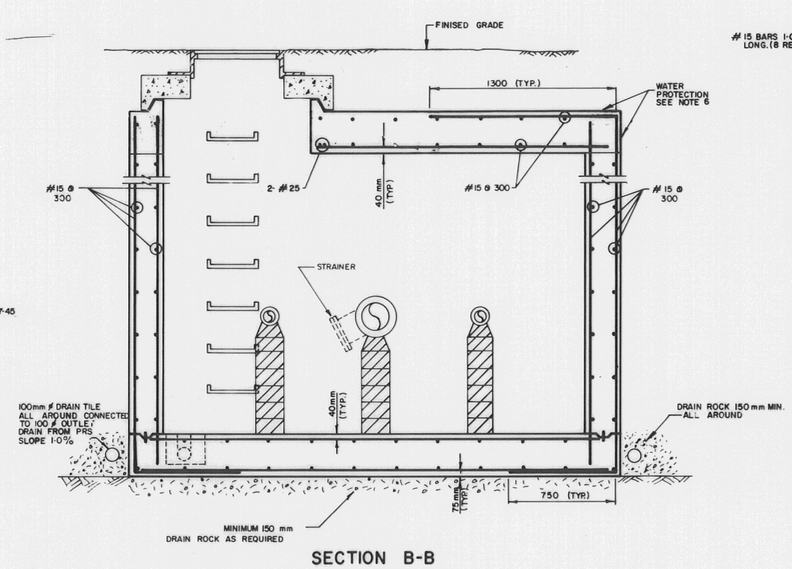
TOP SLAB

BILL OF MATERIALS

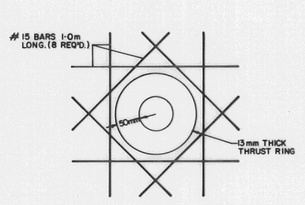
MARK	SIZE	NO. REQUIRED	DESCRIPTION
1	--	2	200 X 200 X 100 X 100 C.I. Cross Flanged
2	200 mm	2	Gate valve (flanged)
3	200 mm	1	Wye Strainer (flanged) c/w blowoff valve
4	200 mm	1	Pressure reducing valve, flange ends, 690 to 1379 KPa reduced pressure range, D/S pressure set at 807 KPa
5	200 mm	2	Steel pipe, flange X victaulic, int. & ext. coated A.W.W.A. C203
6	200 mm	1	Victaulic Coupling
7	--	2	100 X 75 mm concentric reducer flange ends
8	75 mm	4	Adapter threaded X flanged
9	75 mm	7	75 mm schedule 40 steel pipe threaded ends, galvanized
10	75 mm	2	90° elbow (threaded)
11	75 mm	2	Gate valve threaded ends
12	75 mm	1	Pressure reducing valve, flange ends, 690 to 1379 KPa reduced pressure range, D/S pressure set at 841 KPa
13	75 mm	1	Wye strainer threaded ends c/w blowoff valve.
14	100 mm	4	Adapter threaded X flange
15	100 mm	4	Steel pipe galvanized, threaded & victaulic
16	100 mm	4	Victaulic coupling
17	100 mm	2	90° elbow (victaulic)
18	100 mm	1	Gate valve flanged ends
19	200 mm	2	Steel pipe flanged ends, int. & ext. coated A.W.W.A. C203 C/W 300 ø thrust ring.
20	200 mm	1	90° elbow flange X hub
21	--	2	Pressure gauge (0-1379 KPa range)
22	--	1	300 mm Terc-o-plas X 200 mm flange concentric reducer



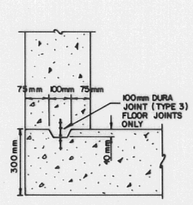
SECTION A-A



SECTION B-B



PIPE OPENING DETAIL (REINFORCING)
NTS



CONSTRUCTION JOINT DETAIL
NTS

NOTES

1. All construction to conform to District of Coquitlam Standards.
2. Concrete shall have a compressive strength of 28 MPa @ 28 days.
3. All galvanizing to be hot dip galvanizing in accordance with CSA G614.
4. All parts and materials supplied to conform to the latest pertinent A.W.W.A. specifications.
5. All reinforcing steel shall have a yield strength of 400 MPa.
6. Water proofing shall consist of two coats of static asphalt protective coating type #1, as made by Flintkote of Canada, or approved equivalent, and shall be applied to all exterior faces of concrete walls from foundation to grade and all below grade roofs.
7. Cover elev. to be level with finished grade.

* SEE W2001 FOR FALCON PRV CHAMBER UPGRADE.

METRIC

NO	REVISION	DATE	BY
2	AS CONSTRUCTED	29/2 81	P.R.
1	WYE STRAINER ORIENTATION REVISED	17-7 81	J.L.H.

DESIGN W.L.
DRAWN W.L., k.o.j.
CHECKED CL.W., W.R.S.
DATE APRIL 1981

EAGLE RIDGE DEVELOPMENT
STAGE 4
PRESSURE REDUCING STATION DETAILS

AS CONSTRUCTED

GENSTAR DEVELOPMENT COMPANY
A MEMBER OF THE GENSTAR GROUP OF COMPANIES

SCALE 1:20
DRAWING NO 714-770
SHEET __ OF ____ REVISION 2

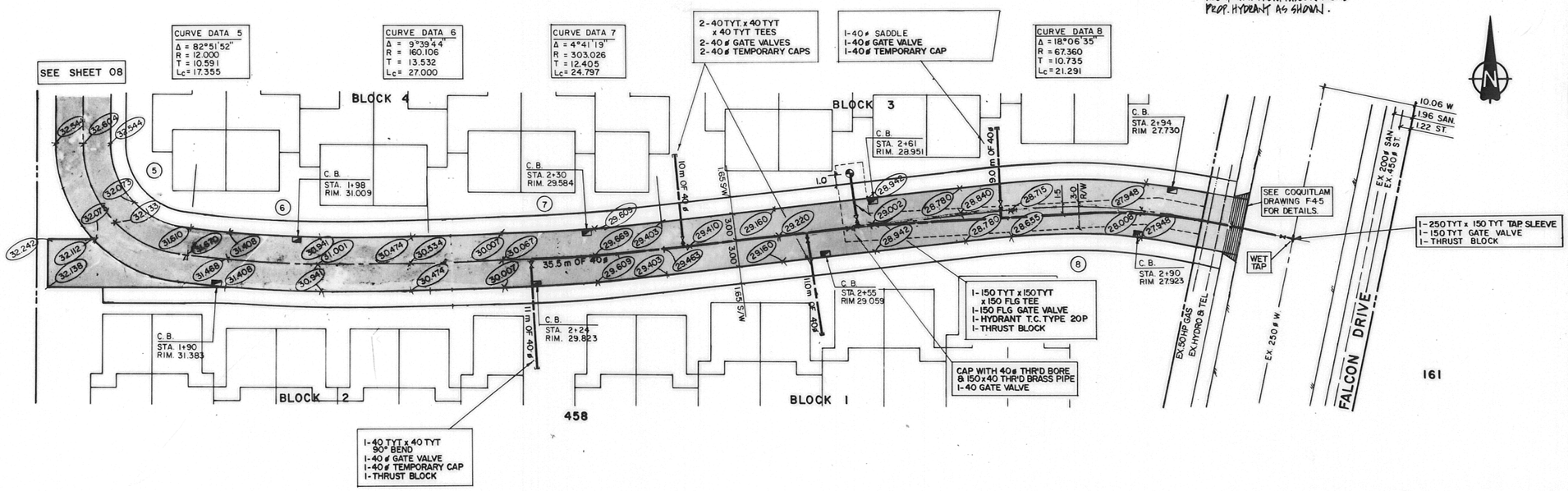
W-813

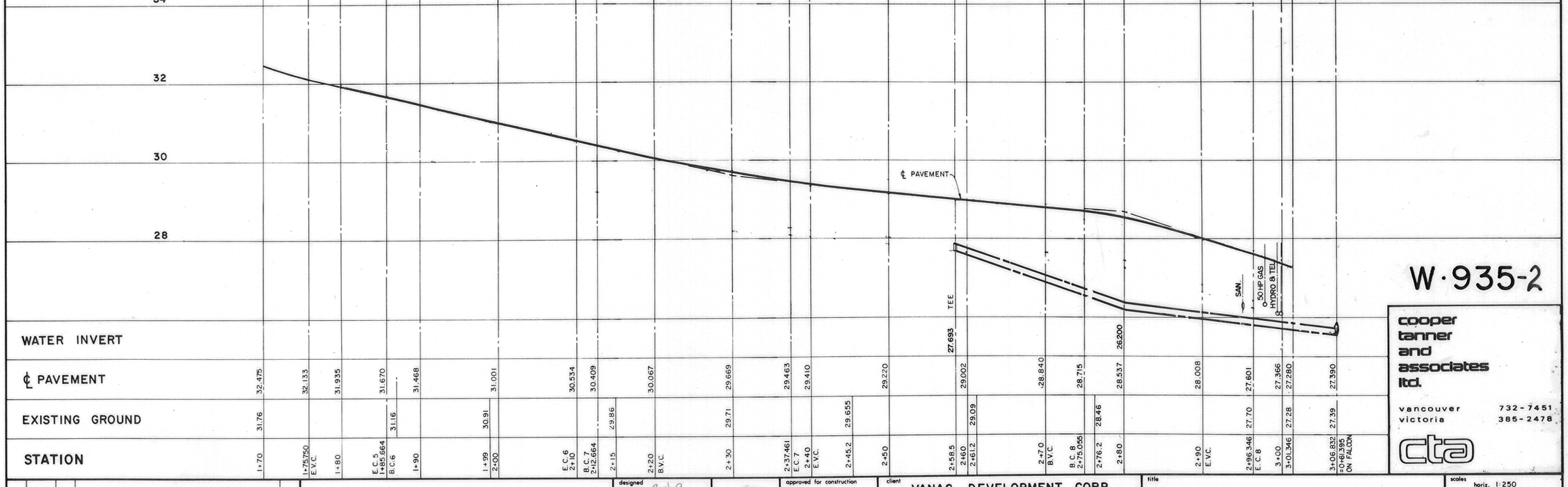
W-935

IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**





W·935-2

rev.	date	by	revisions	chk'd.
3	84 03	FDA	RECORD DRAWING	
2	83 05	PCL	REVISED AS PER COQ. REQ'D	
1	83 04	PCL	GENERAL REVISION AS PER COQUITLAM REQUIREMENTS	

Allan & Ashford Ltd.
consulting engineers surveyors

designed B.H.P.
drawn
checked
date MARCH, 1982

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA PAUL C. LEE

approved for construction
approval date

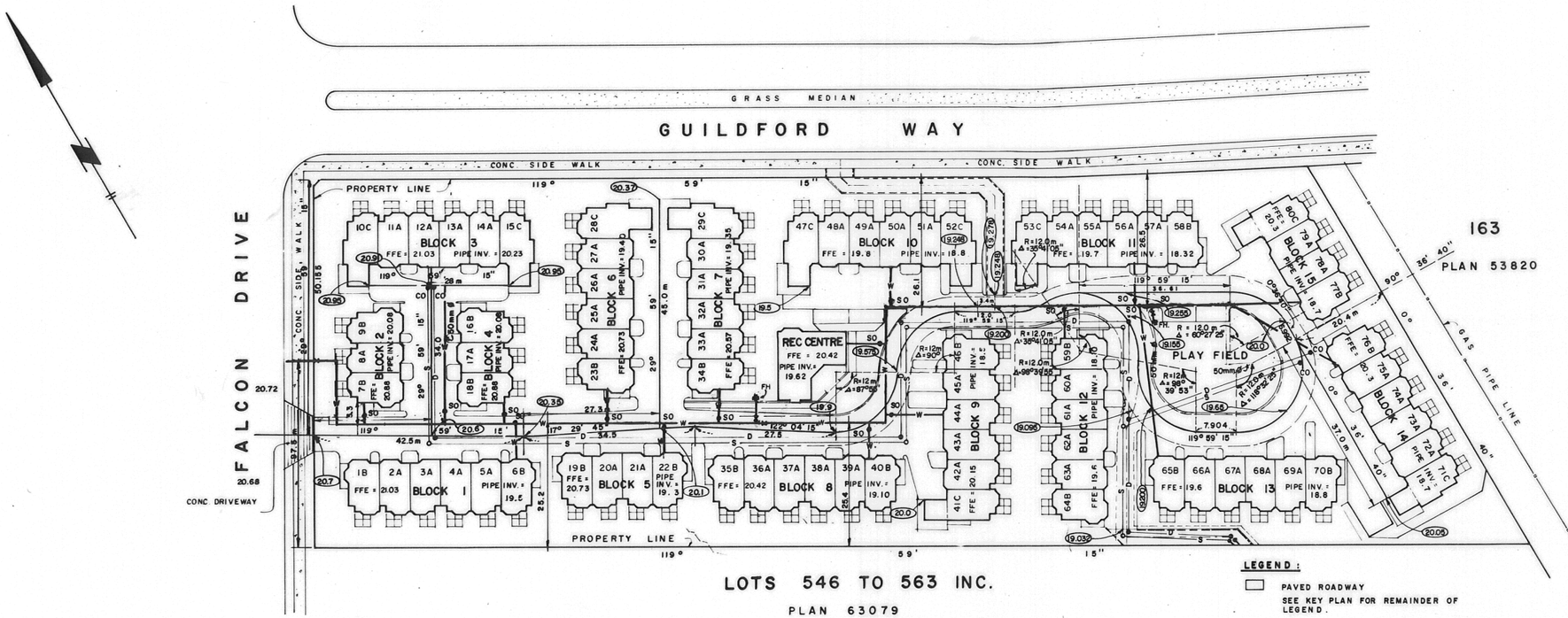
client VANAC DEVELOPMENT CORP.
project FERNLEAF PLACE COQUITLAM, B.C.

title ROADS & WATER STA. 1+86.163 to 3+06.832

scales horiz. 1:250 vert. 1:50
drawing no. 2634 AC 09 3

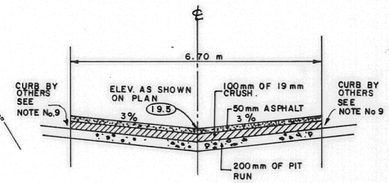
cooper tanner and associates ltd.
vancouver 732-7451
victoria 385-2478
cta

W·967

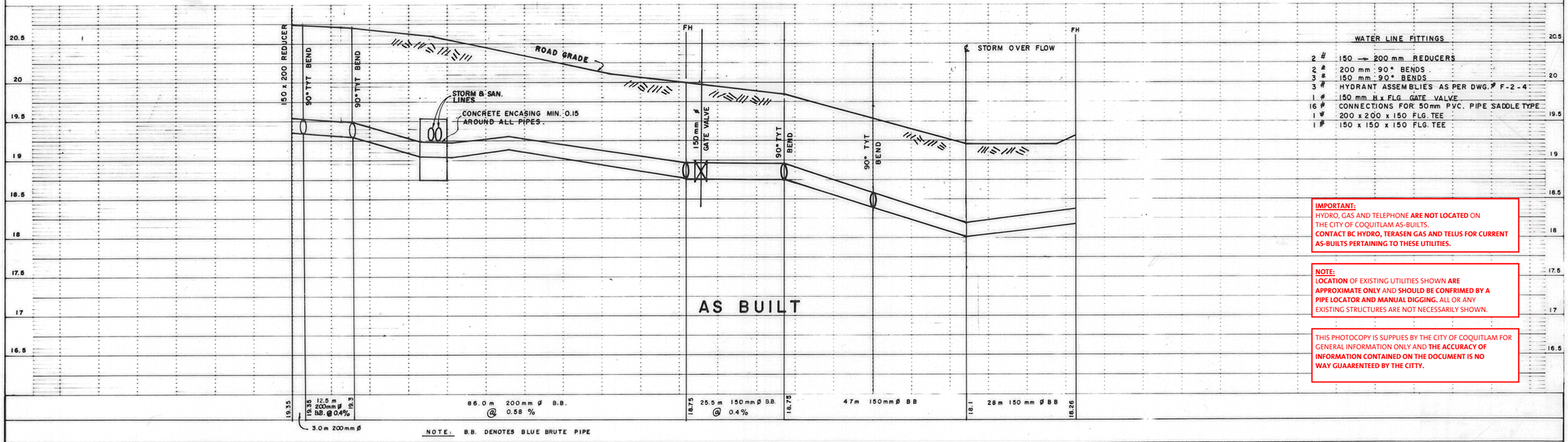


NOTES :

1. BM IS MON # 77H6917 IN THE CURB SOUTH SIDE OF GUILDFORD WAY EAST OF FALCON DRIVE AT 20.516 m. GEODETIC .
2. ALL WORK TO BE COMPLETED IN ACCORDANCE WITH THE DISTRICT OF COQUITLAM ENGINEERING SPECIFICATIONS.
3. MORGAN STEWART & COMPANY DOES NOT TAKE RESPONSABILITY FOR ANY INSPECTIONS UNLESS AN AGREEMENT IS REACHED WITH UNITED PROPERTIES LIMITED .
4. ALL WATER CONNECTIONS TO BLOCKS SHALL BE 50mm Ø PVC. CLASS 160 .
5. STATIC PRESSURE IN WATER MAINS IS 117 PSI.
6. SERVICE CONNECTIONS SHALL BE AS SHOWN ON DWG. F-2-7.
7. WATER MAIN TO BE PLACED 3.0 m TYP. FROM SANITARY SEWER .
8. ALL ELEVATIONS PLACED IN ELIPSE ARE PROPOSED.
9. CURB IN AREA NOT CONTROLED BY SWALE DITCH AS SHOWN ON ARCH DWGS. FOR CURB IN AREA OF SWALE DITCH SEE DWG. 2 OF 3 .
10. CIVIL CONTRACTOR TO CONSULT ARCHITECTS DRAWINGS FOR BUILDING LAYOUT AND THEREFORE SEWER LAYOUT AND WATER LAYOUT .
11. FIRE HYDRANTS TO BE TERMINAL CITY TYPE 20 P.
12. MIN. COVER TO BE 1.0m
13. ALL DOMESTIC WATER CONNECTIONS TO BE 50 mm Ø



TYPICAL ROAD CROSS SECTION
NOT TO SCALE



NOTE: B.B. DENOTES BLUE BRUTE PIPE

WATER LINE FITTINGS

2 #	150 → 200 mm REDUCERS
2 #	200 mm 90° BENDS .
3 #	150 mm 90° BENDS
3 #	HYDRANT ASSEMBLIES AS PER DWG.# F-2-4
1 #	150 mm H x FLG GATE VALVE
16 #	CONNECTIONS FOR 50mm PVC. PIPE SADDLE TYPE
1 #	200 x 200 x 150 FLG. TEE
1 #	150 x 150 x 150 FLG. TEE

IMPORTANT:
HYDRO, GAS AND TELEPHONE **ARE NOT LOCATED** ON THE CITY OF COQUITLAM AS-BUILTS.
CONTACT BC HYDRO, TERASEN GAS AND TELUS FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN **ARE APPROXIMATE ONLY** AND **SHOULD BE CONFRIMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIES BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND **THE ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NO WAY GUAARENTEED BY THE CITTY.**

W·967

ISSUE No	DESCRIPTION	BY	DATE
A	ISSUED FOR CLIENT APPROVAL	D.O.S	APR. 1984
B	FINISHED FLOOR ELEVATIONS & PIPE INVERTS REVISED	D.O.S	APR. 1984
C	REVISIONS AS PER COQUITLAM REQUIREMENTS	D.O.S.	JUN. 1984
D	REVISIONS AS PER AS BUILT INFO	D.O.S.	AUG. 84.

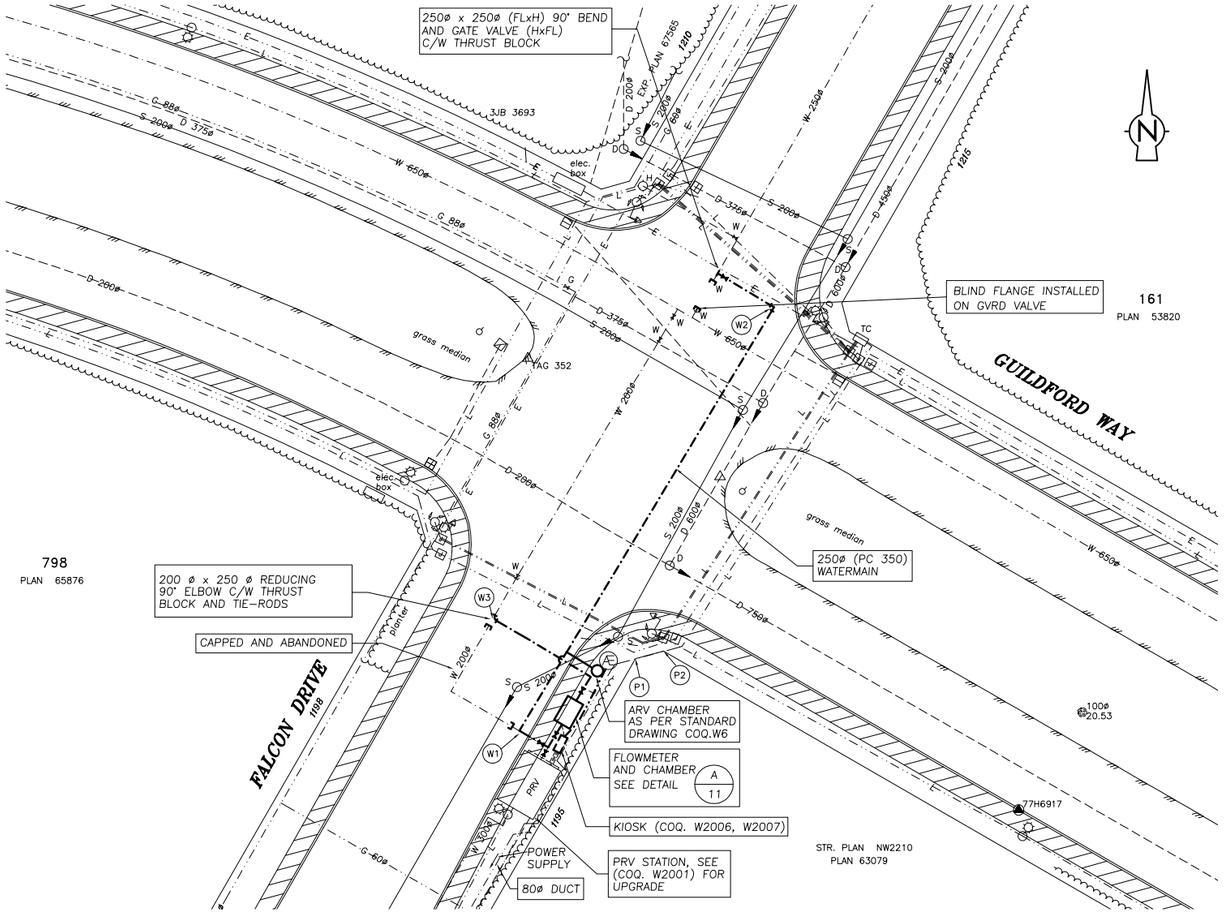
DESIGNED D.O.S
DRAWN T.V.
CHECKED I.S.
APPROVED
SCALES HOR. 1 : 500 VERT. 1 : 25

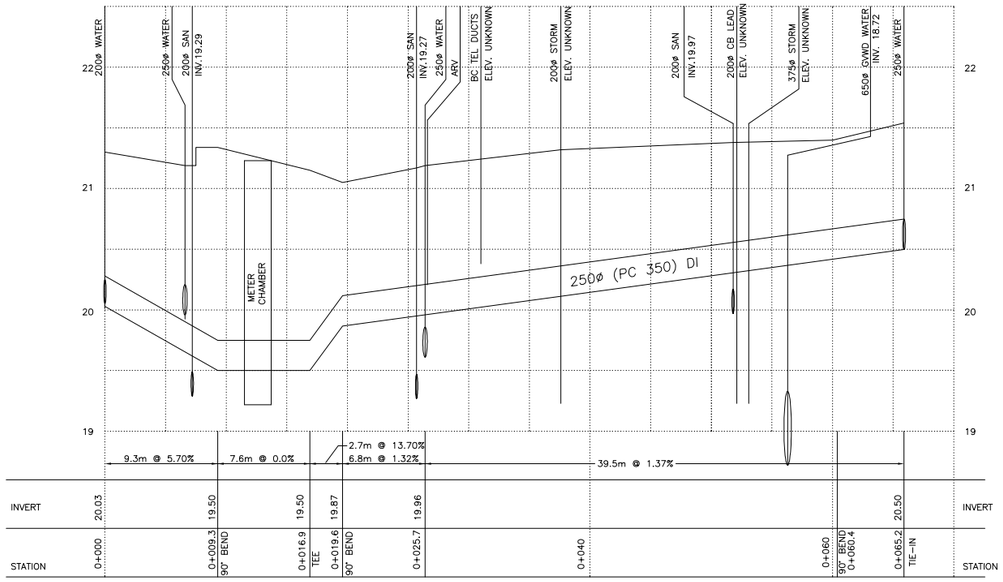
MORGAN STEWART AND COMPANY LIMITED
Engineers & Surveyors
760 Denman Street, VANCOUVER, B C V6G 2L5

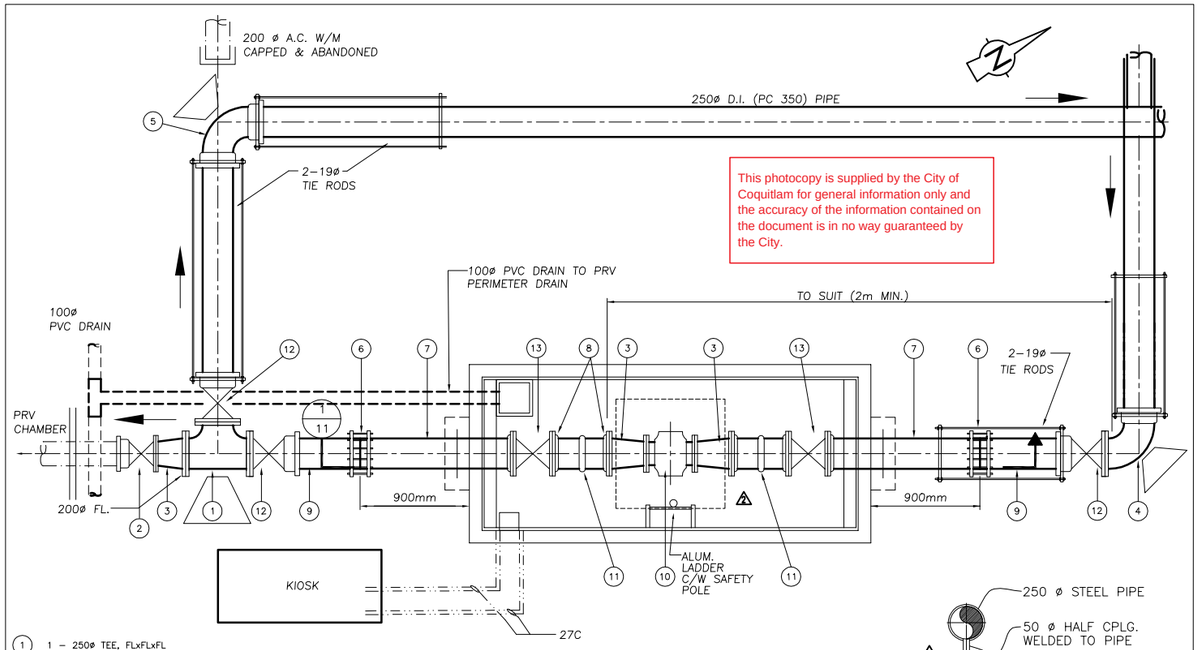
CLIENT UNITED PROPERTIES LTD.
PROJECT THE COURT YARDS ROADS & WATER

ENGINEER'S SEAL

JOB No 3573 DATE
SHEET 3 OF 4
DRAWING No 3573 - 3
ISSUE No D



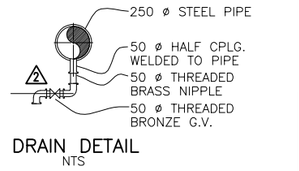




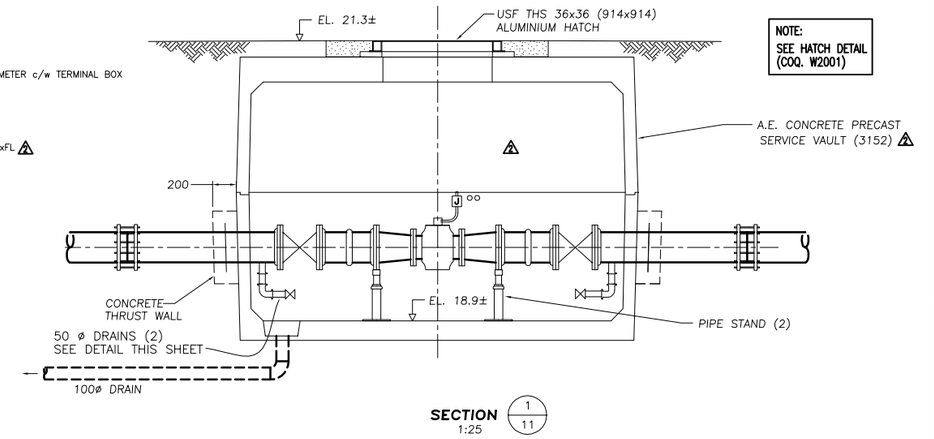
This photocopy is supplied by the City of Coquitlam for general information only and the accuracy of the information contained on the document is in no way guaranteed by the City.

1. 1 – 250ø TEE, FLxFLxFL
2. 1 – 200ø G.V. FLxH
3. 3 – 200ø FL x 250ø FL DI REDUCER (TAPER < 8°) ⚠
4. 1 – 250ø HxFL 90° ELBOW
5. 1 – 250ø HxH 90° ELBOW
6. 2 – 250ø ROBAR 140B DI TO STEEL TRANSITION COUPLINGS
7. 2 – 250ø SCH40 STEEL PIPE, PExVICT, EPOXY LINED AND COATED C/W THRUST RINGS IN WALLS
9. 2 – 250ø PC 350 DI MAKE-UP PIPES
10. 1 – 200ø DANFOSS 3100N MAGNETIC FLOWMETER c/w TERMINAL BOX
11. 2 – 250ø VICT. #07 COUPLING
12. 3 – 250ø G.V. FLxH
13. 2 – 200ø MUELLER A2360 RN NRS G.V. FLxFL ⚠

PLAN
1:25



DRAIN DETAIL
NTS



NOTE:
SEE HATCH DETAIL (COQ. W2001)

SECTION 1 / 1:1
1:25

FLOW METER CHAMBER DETAIL

DETAIL A / 1:1

WATER UTILITY FEATURES

	NORTHING	EASTING	ELEVATION	TYPE
W1	5461128.66	513499.76	–	90° ELBOW ON PROP. TIE-IN 200ø
W2	5461163.87	513520.08	–	90° ELBOW ON PROP. TIE-IN 200ø
W3	5461138.50	513497.54	–	90° ELBOW ON PROP. TIE-IN 200ø

NOTES:

1. UTM COORDINATES AND ELEVATIONS DERIVED FROM INTEGRATED SURVEY MONUMENTS 93H1002 AND 93H1003

93H1002	93H1003
5458913.570	5457813.798 N
514251.979	511176.869 E
ELEV. 20.075	ELEV. 110.152

2. SURVEY MONUMENT 93H1002 LOCATED N.W. CORNER OF INTERSECTION OF GLEN DR AND McCOMB DR.
2. SURVEY MONUMENT 93H1003 LOCATED S.E. CORNER OF INTERSECTION OF GLEN DR AND JOHNSON ST.
3. SURVEY IS BASED UPON NAD83 UTM GRID COORDINATES.
4. UTM COMBINED SCALE FACTOR IS 0.9996020
5. ELEVATIONS TO GEODETIC DATUM IN METRES.

PROPERTY CORNERS

	NORTHING	EASTING
P1	5461134.766	513509.055
P2	5461135.388	513511.373
P3	5461103.242	513490.863

5 0 5 10 15 20
GRAPHIC SCALE
SCALE 1:250

See W1990 for Index and Key Plan

See W2001 for details of the Falcon PRV

DENOTES LOCATION OF ANTENNA POLE

MATERIAL LIST
GATE VALVES – CLOW
FITTINGS – A.C.S.
HYDRANTS – T.C. COMPRESSION
WATERMAIN – D.I. PC 350

FOR WATERWORKS NOTES, (COQ. W1991)

"These Record Drawings have been prepared based on information provided by the Contractor and others. Dayton & Knight Ltd. has not verified the accuracy or completeness of the information provided to them and does not warrant the accuracy or completeness of these Record Drawings. Users of these Record Drawings assume all risk of loss resulting from their use."

DAYTON & KNIGHT LTD.
Consulting Engineers
612 Clyde Ave., West Vancouver, BC
Tel: (604) 922-3255
Fax: (604) 922-3253

BC CALL 1 CALL BEFORE YOU DIG!
1-800-474-6886
or by CELLULAR #6886
Vancouver Area 257-9140
CALL AT LEAST TWO FULL WORKING DAYS BEFORE YOU PLAN TO DIG

COQ. AsBUILT No.
W 2000

LEGEND

	EXISTING	PROPOSED
Edge of pavement		
Asphalt curb		
Concrete sidewalk		
Concrete curb		
Watermain and valve	W	W
Watermain, capped end	W	W
Hydrant		
Water blowoff		
Water temporary blowoff		

	EXISTING	PROPOSED
Drainage sewer and MH		
Drainage sewer capped end		
Catch basin, top inlet		
Catch basin, side inlet		
Catch basin, round		
Swale		
Ditch		
Culvert		
Inlet Structure		

	EXISTING	PROPOSED
Sanitary sewer and MH		
Sanitary sewer, capped end		
Sanitary sewer, forcemain		
U/G electrical duct and MH		
Utility pole		
Utility pole with light		
Junction box		
U/G telephone and MH		
U/G gas main and valve		

	EXISTING	PROPOSED
U/G signal/light duct		
Streetlight, davit		
Streetlight, post top		
Traffic signal pole		
Traffic signal post		
Traffic controller		
Service box		
Signal fixture		
Traffic street sign		

Note:
Location of existing utilities shown are approximate and should be confirmed by pipe locator and manual digging. All or any existing structures are not necessarily shown.

REV'D	DATE	DR'N	CH'D	
3	06/09/03	J.NG	JL	AS CONSTRUCTED
2	11/06/01	KS	JT	METER CHAMBER REVISION
1	06/11/01	KS	JT	ISSUED FOR TENDER

Destroy All Prints Bearing Previous Rev. No.

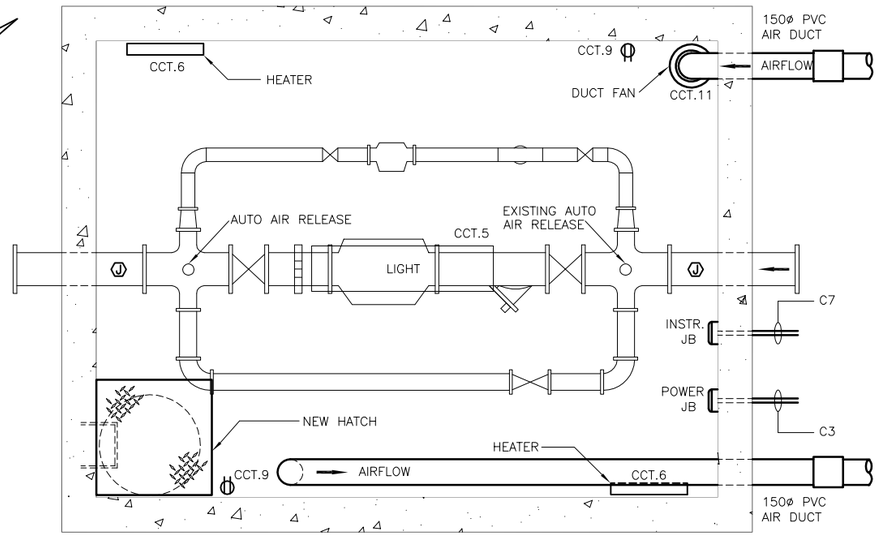
CITY OF COQUITLAM — **Operations**

DESIGNED – J.T./G.S.
DRAWN – K.R.C.
METRIC SCALE – Horiz.1:250 Vert. NONE
APPROVED –
DATE – MAR 12 01

NEW FALCON METER CHAMBER

FILE – 138.40.1
CONSULTANTS DWG No– 138-40-1_11
COQ. PROJECT No– C 91856-1
SHEET 11 OF 21
PLOT DATE/TIME: Sep 04, 2003-4:46pm

This photocopy is supplied by the City of Coquitlam for general information only and the accuracy of the information contained on the document is in no way guaranteed by the City.

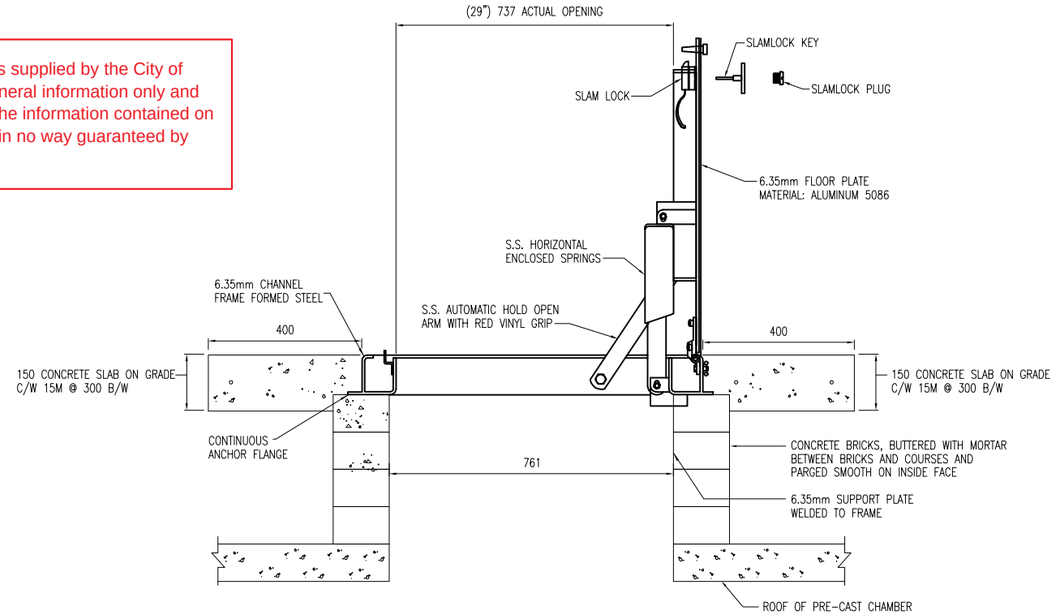


PRV PLAN

(N.T.S.)

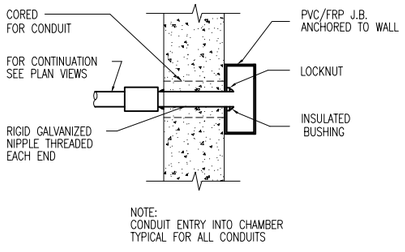
See W1990 for Index and Key Plan

See W2000 for the Site Plan of Falcon PRV at Falcon Dr. & Guildford Way



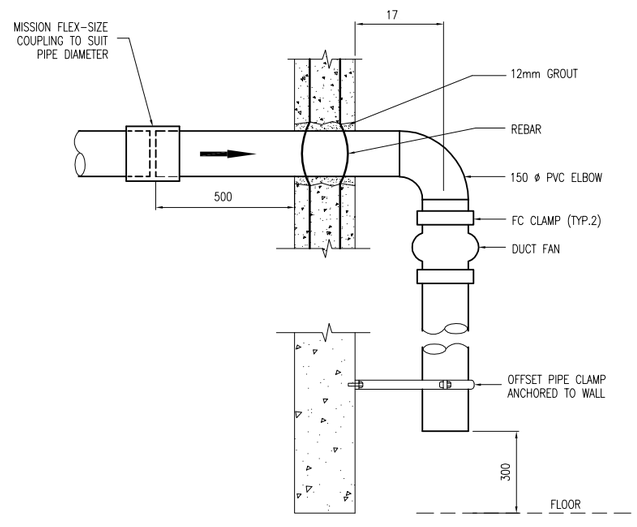
USF TPS36x36 (914x914) ALUMINIUM HATCH DETAIL

(N.T.S.)



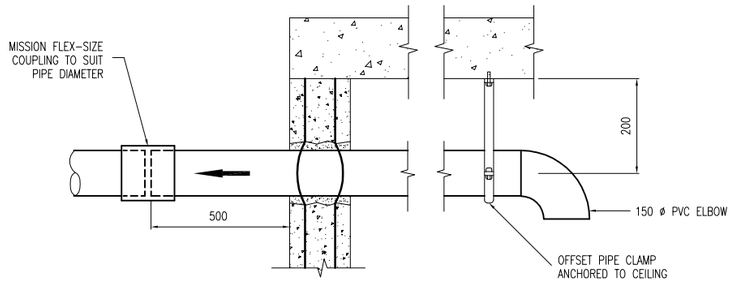
SECTION THROUGH CHAMBER
SHOWING CONDUIT ENTRY DETAIL

(N.T.S.)



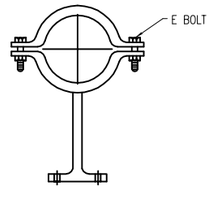
VENT DUCT FROM KIOSK ENTRY DETAIL – INTAKE

(N.T.S.)



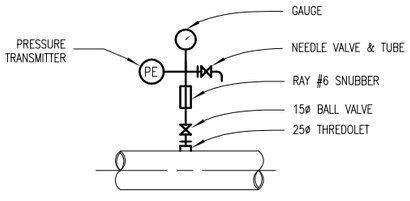
VENT DUCT FROM KIOSK ENTRY DETAIL – EXHAUST

(N.T.S.)



OFFSET PIPE CLAMP DETAIL

(N.T.S.)



DETAIL J

Note:
Location of existing utilities shown are approximate and should be confirmed by pipe locator and manual digging. All or any existing structures are not necessarily shown.

"These Record Drawings have been prepared based on information provided by the Contractor and others. Dayton & Knight Ltd. has not verified the accuracy or completeness of the information provided to them and does not warrant the accuracy or completeness of these Record Drawings. Users of these Record Drawings assume all risk of loss resulting from their use."

LEGEND

	EXISTING	PROPOSED
Edge of pavement		
Asphalt curb		
Concrete sidewalk		
Concrete curb		
Watermain and valve		
Watermain, capped end		
Hydrant		
Water blowoff		
Water temporary blowoff		
Drainage sewer and MH		
Drainage sewer capped end		
Catch basin, top inlet		
Catch basin, side inlet		
Catch basin, round		
Swale		
Ditch		
Culvert		
Inlet Structure		
Sanitary sewer and MH		
Sanitary sewer, capped end		
Sanitary sewer, forcemain		
U/G electrical duct and MH		
Utility pole		
Utility pole with light		
Junction box		
U/G telephone and MH		
U/G gas main and valve		
U/G signal/light duct		
Streetlight, davit		
Streetlight, post top		
Traffic signal pole		
Traffic signal post		
Traffic controller		
Service box		
Signal fixture		
Traffic street sign		

REV'D	DATE	DR'N	CH'D	
2	06/02/03	PTL	JL	AS CONSTRUCTED
1	06/11/01	KS	D.R.	ISSUED FOR TENDER

Destroy All Prints Bearing Previous Rev. No.

DAYTON & KNIGHT LTD.
Consulting Engineers
612 Clyde Ave., West Vancouver, BC
Tel: (604) 922-3255
Fax: (604) 922-3253

BC 1 CALL
CALL BEFORE YOU DIG!
1-800-474-6886
or by CELLULAR *6886
Vancouver Area 257-7940
CALL AT LEAST TWO FULL WORKING DAYS BEFORE YOU PLAN TO DIG

COQ. AsBUILT No.
W 2001

CITY OF COQUITLAM — Operations

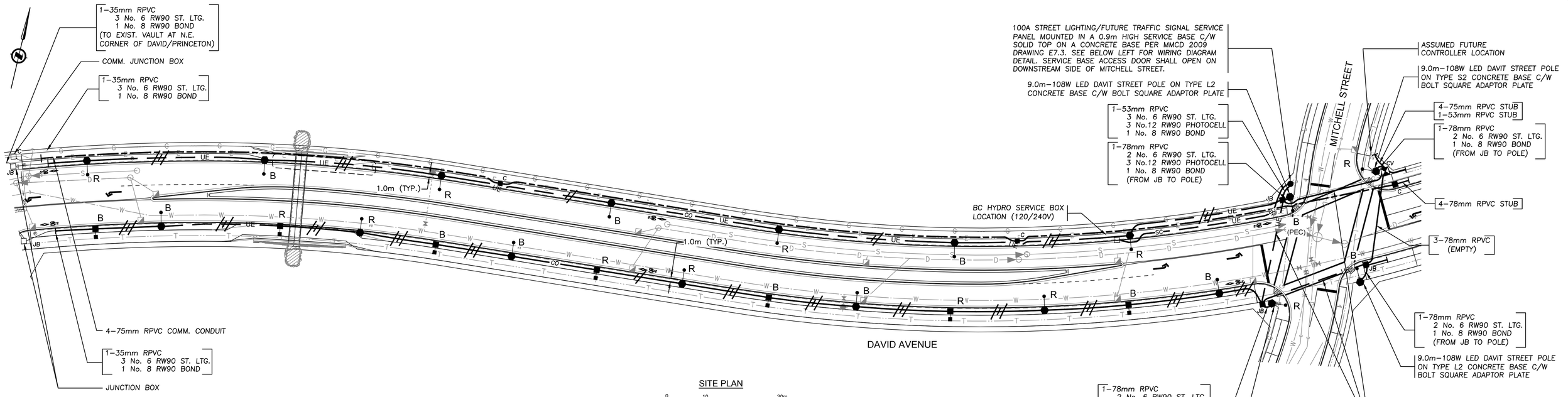
DESIGNED – D.R.
DRAWN – B.J.
METRIC SCALE – Horiz. N.T.S. Vert. N.T.S.
APPROVED –
DATE – MAR 29 01

EXISTING FALCON
PRV CHAMBER
UPGRADE

FILE – 138.40.1
CONSULTANTS DWG No– 138-40-1_12
COQ. PROJECT No– C 91856-1
SHEET 12 OF 21
PLOT DATE/TIME: Sep 04, 2003-4:47pm

As Built Record Drawings -

David Avenue East of Princeton Avenue



SITE PLAN

1:500 0 10 30m

120V SERVICE LOAD AT PRINCETON AVENUE AND DAVID AVENUE INTERSECTION

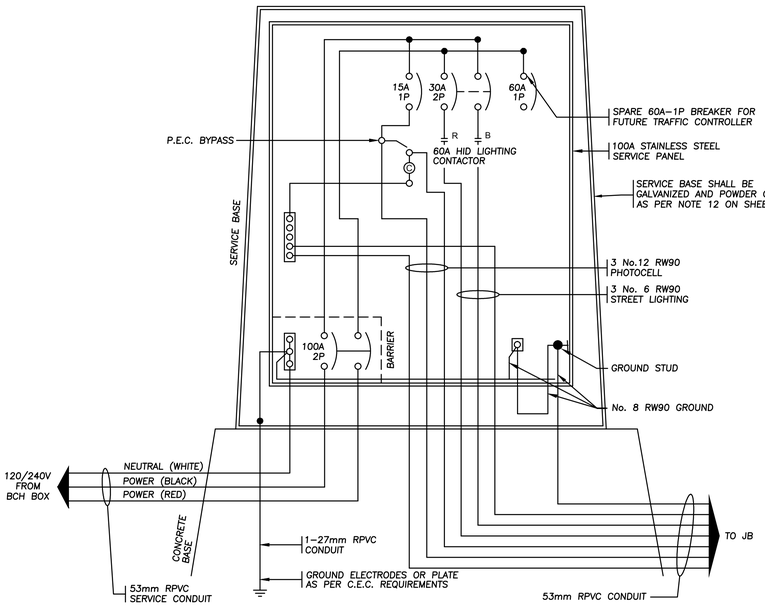
(100A – 120/240V SERVICE PANEL)

WATTAGE (W)	CCT. PHASE	EXISTING	REMOVED	NEW	TOTAL No. OF LIGHTS	CURRENT (A)
150W (HPS)	R	6	0	0	6	10.02A
	B	5	0	0	5	8.35A
92W (LED)	R	0	0	3	3	2.30A
	B	0	0	4	4	3.07A
45W (LED)	R	2	0	0	2	0.80A
	B	2	0	0	2	0.80A
25W (LED)	R	0	0	1	1	0.21A
	B	0	0	2	2	0.42A
1.40% VOLTAGE DROP						

120V SERVICE LOAD AT MITCHELL STREET AND DAVID AVENUE INTERSECTION

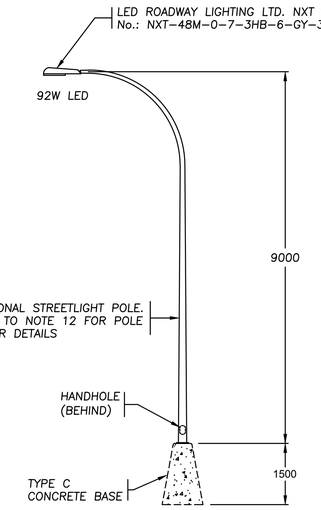
(100A – 120/240V SERVICE PANEL)

WATTAGE (W)	CCT. PHASE	EXISTING	REMOVED	NEW	TOTAL No. OF LIGHTS	CURRENT (A)
92W (LED)	R	0	0	4	4	4.60A
	B	0	0	3	3	3.83A
25W (LED)	R	0	0	2	2	0.42A
	B	0	0	2	2	0.42A
108W (LED)	R	0	0	2	2	1.80A
	B	0	0	2	2	1.80A
0.55% VOLTAGE DROP						

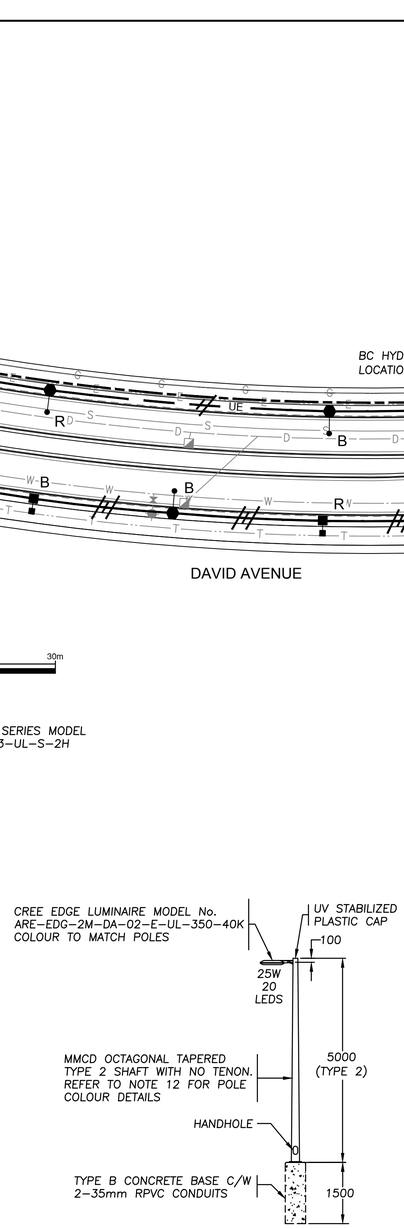


MITCHELL STREET WIRING DIAGRAM

N.T.S.



TYPICAL STREETLIGHT POLE



TYPICAL PATHWAY POLE

ELEVATIONS

1:75 0 5

LUMINANCE DESIGN CRITERIA

ITEM	DESIGN REQUIREMENTS	DESIGN ACHIEVED
STREET NAME(S)	DAVID AVENUE (PRINCETON AVE TO MITCHELL ST)	
PEDESTRIAN CONFLICT AREA	MEDIUM	
ROAD CLASSIFICATION	ARTERIAL	
ILLUMINATION TYPE	9.0m DAVIT POLE 92W LED TYPE 3	
SPACING (MAX)	24m STAGGERED	
LUMINANCE LEVEL (AVG.)	0.9 cd/m^2	1.10 cd/m^2
LUMINANCE UNIFORMITY RATIO (AVG.:MIN.)	3.0:1	1.96:1
VEILING LUMINANCE RATIO (VLMAX.:AVG.)	0.3:1	0.2:1

REFER TO SHEET 1 FOR LEGEND AND NOTES

IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

BC 1 CALL — CALL BEFORE YOU DIG! 1-800-474-6886 or by CELLULAR #6886 Vancouver Area 257-1940 — CALL AT LEAST TWO FULL WORKING DAYS BEFORE YOU PLAN TO DIG.

COQ. ASBUILT No.
E1284-01
C2059

DMD & Associates Ltd.
12-17358 104A Avenue, Surrey, BC, Canada V4N 5M3
www.dmdeng.com 604/589-9010
office@dmdeng.com Fax 604/589-9012
DMD PROJECT No. 4260d-14-01 of 02

No.	Date	By	Revisions	Eng.
1	2017-08-21	PD	RECORD DRAWING	
.	2016-05-17	PD	ISSUED FOR CONSTRUCTION	.
.	2016-04-19	AM	ISSUED FOR TENDER	.

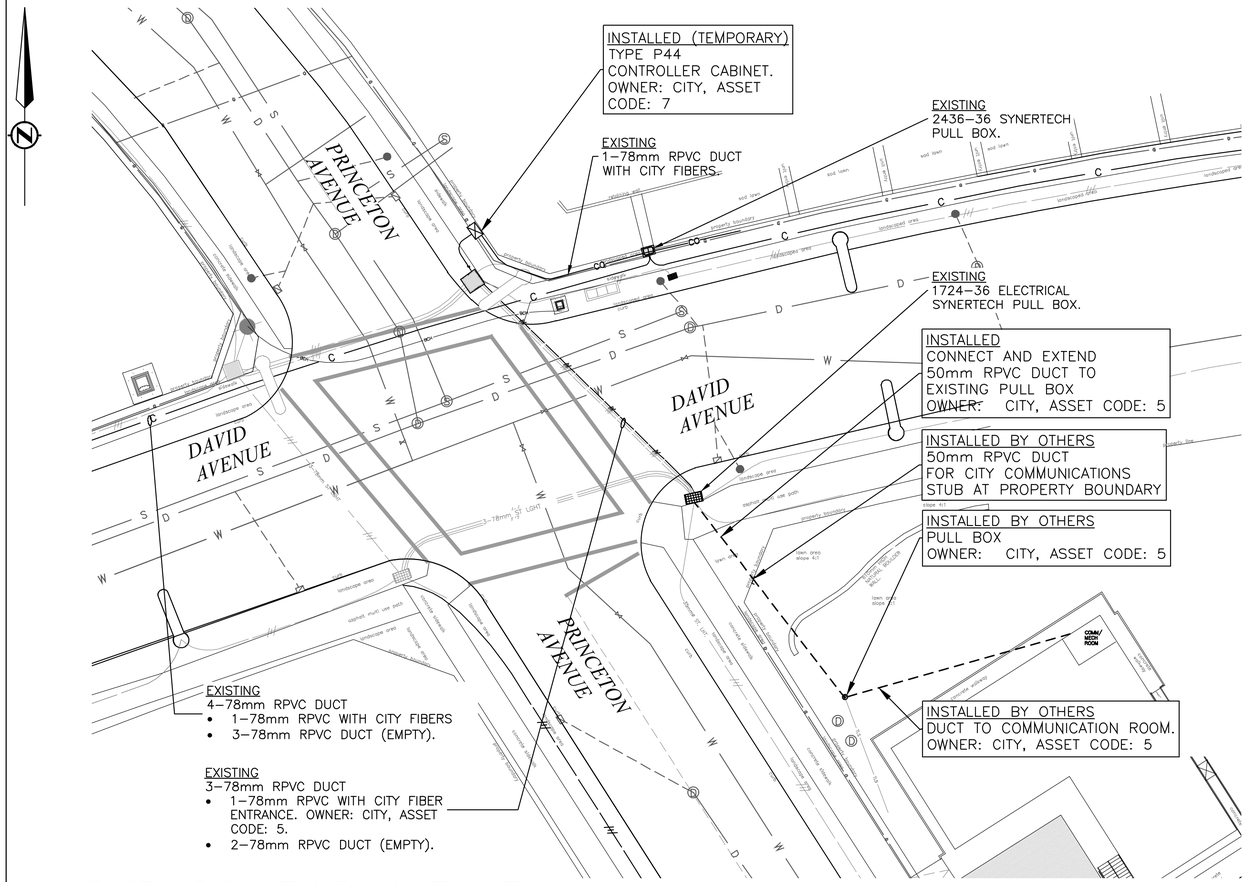
Design by PD Date 02-03-2016
Drawn by GV Date 02-03-2016
Checked by NB Date 02-03-2016
Approved by NB Date 02-03-2016

Coquitlam
Engineering & Public Works
3000 Guildford Way, Coquitlam, B.C. V3B 7N2

Scale AS SHOWN
Sheet of 2 of 2
Eng. Project No. .

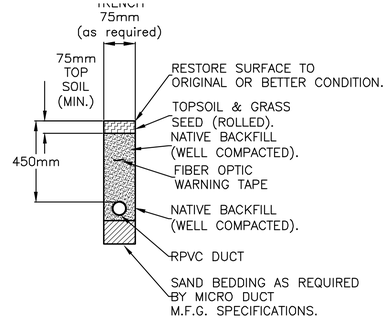
Project DAVID AVENUE
PRINCETON AVE. TO MITCHELL ST.
Description STREET LIGHTING
File: 4260d-14

Plot Date: August 21, 2017



DUCT AND JUNCTON BOX INSTALLATION.

SCALE: 1 : 250



TRENCH IN NON-TRAVELLED SURFACE

SCALE: NTS

COQ AS BUILT
C2163

IMPORTANT:
HYDRO, GAS AND TELEPHONE **ARE NOT LOCATED** ON THE CITY OF COQUITLAM AS-BUILTS.
CONTACT BC HYDRO, TERASEN GAS AND TELUS FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN **ARE APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND **THE ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NO WAY GUARANTEED BY THE CITY.**

GENERAL CONSTRUCTION NOTES

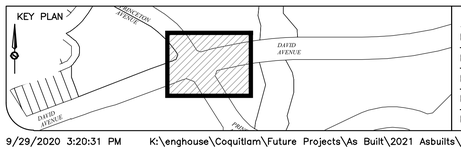
1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE MASTER MUNICIPAL SPECIFICATIONS CONTAINED IN THE CONTRACT DOCUMENTS, CITY OF COQUITLAM'S SUBDIVISION AND DEVELOPMENT SERVICING BYLAW NO.3558
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY OF COQUITLAM'S STREAM AND DRAINAGE SYSTEM PROTECTION BYLAW NO. 4403 2013.
3. ALL WORK SHALL PASS THE INSPECTION OF THE ENGINEERING AND PUBLIC WORKS DEPARTMENT OF THE CITY OF COQUITLAM. CONTACT CHAD BRALEY CITY'S SUPERVISOR DESIGN AND CONSTRUCTION, 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION (PHONE: (604) 927–3513.
4. THE CONTRACTOR SHALL ENSURE THAT ALL APPROVALS REQUIRED FOR THE PROPOSED WORKS HAVE BEEN OBTAINED FROM ALL AUTHORITIES AND AGENCIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
5. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL LOCATE AND EXPOSE ALL EXISTING STORM SEWERS, SANITARY SEWERS, WATERMAINS, GAS MAINS, UNDERGROUND ELECTRICAL AND/OR TELEPHONE DUCTING, STREETLIGHT AND ALL OTHER EXISTING UNDERGROUND UTILITIES AT ALL TIE–IN POINTS AND ALL POINTS WHERE THEY MAT CROSS OR COME INTO CLOSE PROXIMITY WITH THE PROPOSED WORKS. IN THE EVENT OF CONFLICTS, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER FOR DIRECTIONS.
6. THE CONTRACTOR SHALL RESTORE THE EXISTING PAVEMENT ACROSS ALL TRENCH EXCAVATIONS TO ORIGINAL CONDITION OR BETTER AND THE FINISHED PAVEMENT. ALL PAVEMENT CUTS AND RESTORATION WORK SHALL BE IN ACCORDANCE WITH THE CITY OF COQUITLAM'S ENGINEERING AND PUBLIC WORKS DEPARTMENT.
7. THE CONTRACTOR SHALL NOT BE ALLOWED TO ENCROACH INTO PRIVATE PROPERTY ADJACENT TO THE PROJECT SITE.
8. TRENCH DETAILS PER COQUITLAM STANDARD DETAIL COQ–G4
9. THE CONTRACTOR SHALL TAKE EXTREME CARE WHEN WORKING NEAR OR AROUND EXISTING SERVICES, ANY DISTURBANCE TO THESE SERVICES SHAL BE REPLACED OR MADE GOOD TO THE SATISFACTION OF THE CITY OF COQUITLAM OR OWNER OF THE UTILITY.
10. DISTURBANCE TO ANY LANDSCAPING OR IMPROVEMENT SHALL BE RESTORED BY THE CONTRACTOR TO THE SATISFACTION OF THE CITY OF COQUITLAM. IN SOME CASES THE CITY OF COQUITLAM MAY REQUIRE THE CONTRACTOR TO OBTAIN WRITTEN ACCEPTANCE OF THE RESTORATION FROM THE AFFECTED PROPERTY OWNERS.
11. ALL EXISTING LIVE SERVICES SHALL BE MAINTAINED OPERATIONAL DURING CONSTRUCTION.
12. ALL RESIDENCES AFFECTED BY CONSTRUCTION ARE TO BE GIVEN 48 HOURS NOTICE OF CONSTRUCTION.

FIBRE CONSTRUCTION NOTES

1. MINIMUM CONDUIT COVER 1.0m ALL SECTIONS, EXCEPT WHERE OTHER WISE NOTED.
2. ALL DUCTS TO BE 50mm SCHEDULE 40 UNLESS OTHERWISE NOTED.
3. ALL MANUFACTURED BENDS TO BE 0.9m RADIUS UNLESS OTHERWISE NOTED.
4. ALL CONCRETE PILASTERS TO BE 20mm ABOVE GRADE UNLESS OTHERWISE NOTED.
5. CONTRACTOR IS TO PROVE THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES AND SERVICES AFFECTED BY CONSTRUCTION.
6. CONTRACTOR TO CONTACT THE APPROPRIATE BC GAS INC. RECORDS DEPARTMENT 48 HRS PRIOR TO STARTING WORK.
7. CONTRACTOR TO CONTACT THE CITY/MUNICIPAL HIGHWAYS WORKS DEPARTMENT INSPECTOR 48 HRS TO STARTING WORK.
8. ALL BACKFILL MATERIAL AND COMPACTION TO BE IN ACCORDANCE WITH THE APPROVING AUTHORITIES SPECIFICATIONS.
9. ORANGE MARKER TAPE TO BE PLACED IN TRENCH LINE, 300mm ABOVE DUCTS.
10. ALL TRAFFIC RELATED CONTROLS SHALL CONFORM TO THE LATEST MUNICIPAL CODE AND /OR BYLAW.
11. MINIMUM 0.3m HORIZONTAL SEPARATION FROM EXISTING UTILITIES.
12. ALL TRENCHES COMMON TO ALL POWER AND COMMUNICATION DUCTS TO BE CONCRETE ENCASED.

CONTRACTOR TO LOCATE ALL APPROXIMATE RUNNING LINES FOR UTILITIES AND OTHER.COMMUNICATIONS DUCTS PRIOR TO TRENCHING.	CHECK BEFORE YOU DIG THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT BC ONE CALL 48–72 HOURS PRIOR TO DIGGING/EXCAVATING.
ALL NEW PLACED DUCTS, SHALL BE RPVC DUCT ON THE EXTERIOR AND SHALL BE EMT ON THE INTERIOR OF BUILDING.	RPVC DUCTS TO BE TAGGED "QNet" IN PULLBOXES AND BE CAPPED/SEALED UNTIL TIME OF CABLE INSTALLATION.
CAUTION: CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES REQUIRED TO PREVENT ANY MATERIALS FROM ENTERING CATCH BASINS OR FISH–BEARING WATERWAYS (PER D.F.O AND BC ENVIRONMENTAL REGULATIONS). NOTES: 1. RESTORE NON–TRAVELLED SURFACES TO PREVIOUSLY EXISTING OR BETTER CONDITION. 2. "NON–TRAVELLED AREAS" ARE HARD SURFACED FOR PEDESTRIAN TRAFFIC ONLY AND ARE GENERALLY LANDSCAPED OR NON LANDSCAPED AREAS, NATURAL GARDENS AND LAWNS. 3. NATIVIE OR GRANULAR FILL TO BE WELL COMPACTED IN MAXIMUM OF 150mm LIFTS.	BC OneCall Call or Click Before You Dig Call:1-800-474-6886 Email: bconecall.ca

KEY PLAN



LEGEND

EX. STREET LIGHT JUNCTION BOX		EX.STREET DUCT		STORM DRAIN PIPE	D
EX. HYDRO PULL BOX		EX.HYDRO DUCT	BCH	SANITARY DRAIN PIPE	S
EX.OTHER CATV. JB		EX. CATV. DUCTS	TLS SHAW	WATER PIPE MAIN	W
EX.QNET TELECO. DUCT		PROPOSED QNET COMM. DUCT	Q	SERVICE LEADS	
EX.QNET TELECO. PULL BOX		PROPOSED QNET COMM. JB	Q	SERVICE MANHOLES AND CATCH BASINS	D S

REVISIONS

REV. #	DATE	DESCRIPTION	BY
–	–	–	–
–	–	–	–
–	–	–	–
E	11/26/2021	As built record drawing.	DR
D	9/05/2021	Construction completed.	HighANgle
C	7/09/2021	Sent to Utility Permit for Approvals and comments.	DR
B	11/30/2020	Design review.	BG
A	12/04/2020	Preliminary Designs, Comments and Review.	BG

DESIGN INFORMATION

SHEET No.:	1 of 1
SCALE:	AS SHOWN
DRW. BY:	DR
CHKD BY:	Bagpin
SHEET SIZE:	ARCH D 24 x 36
APPR. DATE:	
CEDMS No.:	–
ASBUILT REF.:	E1245–02/03
CEDMS#	3857071/2

QNET
Coquitlam Optical Network Corporation
3000 Guildford Way, Coquitlam, BC V3B 7N2
Phone: 604–927–3001 or Email: asbuilts@qnetbc.net

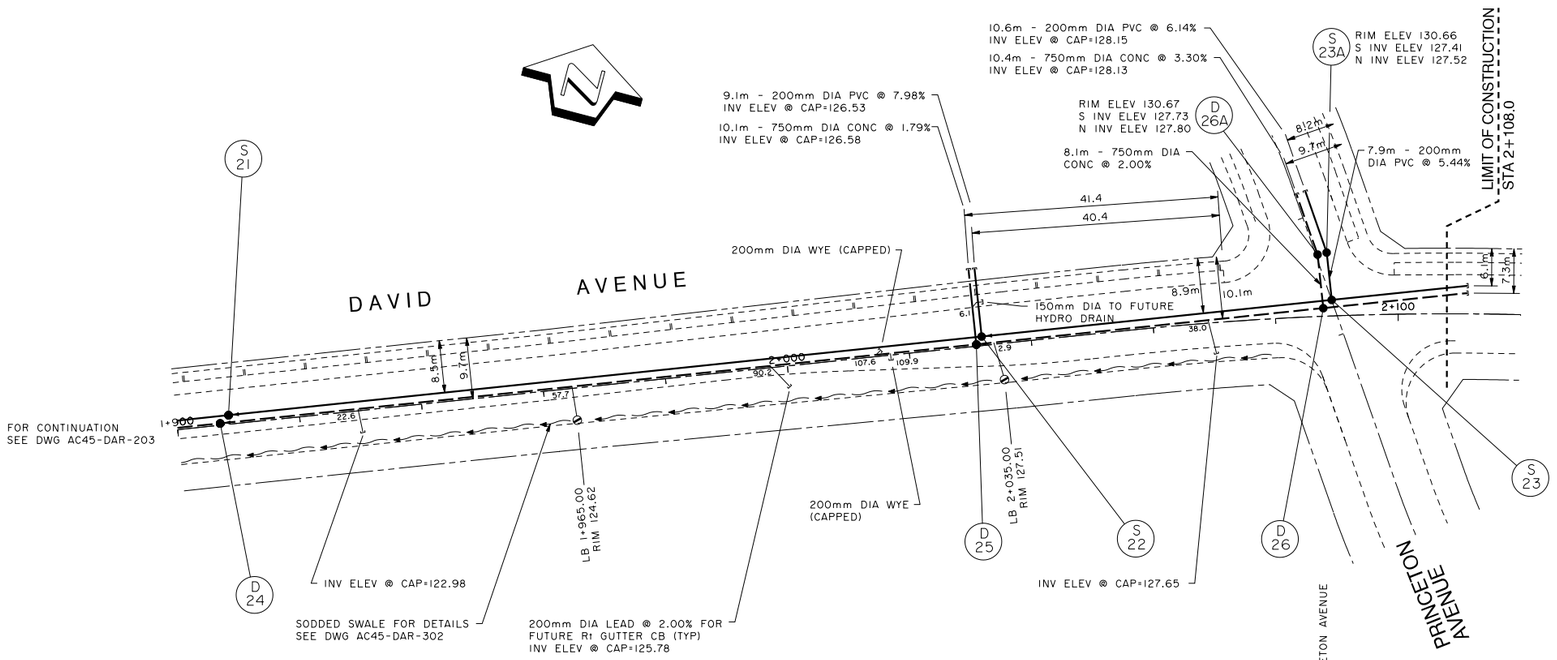
PROJECT INFORMATION

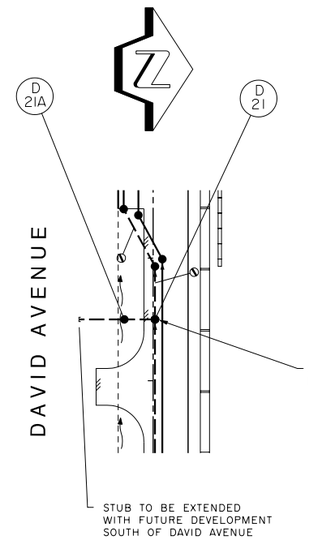
PROJECT NAME:
Discovery Centre
As built record drawing.

PROJECT LOCATION:
3537 Princeton Avenue
Burke Mountian Coquitlam.

PROJECT No.:	DWG. No.:	REV. No.:
61473–026	61473–026–101	E

9/29/2020 3:20:31 PM K:\enghouse\Coquitlam\Future Projects\As Built\2021 Asbuilts\3rd QTR\3357 Princeton Avenue – Discovery Centre\61473–026 3537 Princetion Avenue – Discovery Centre As Built Record Drawing.dwg

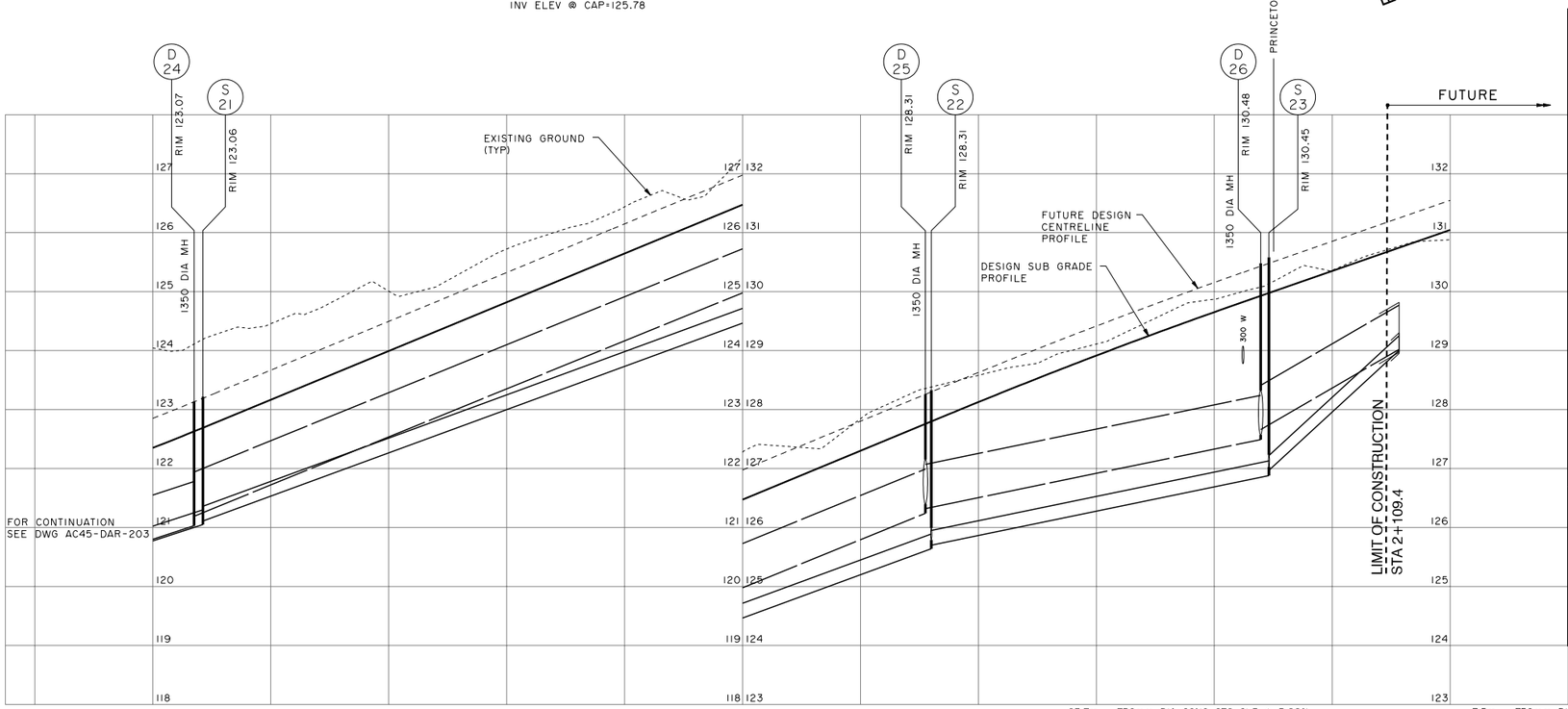


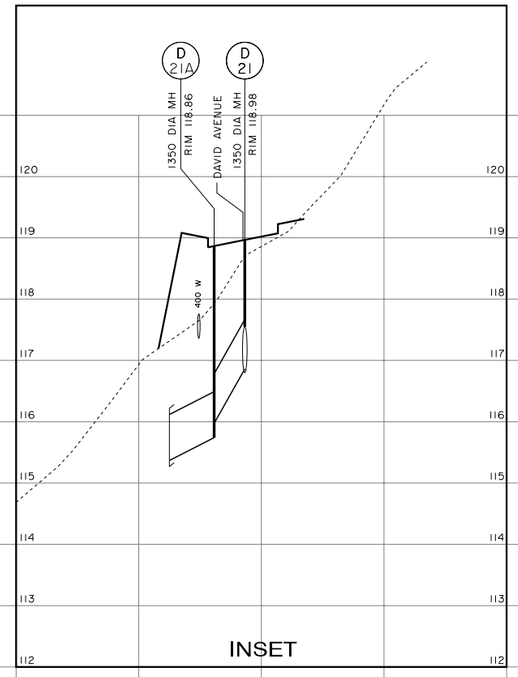


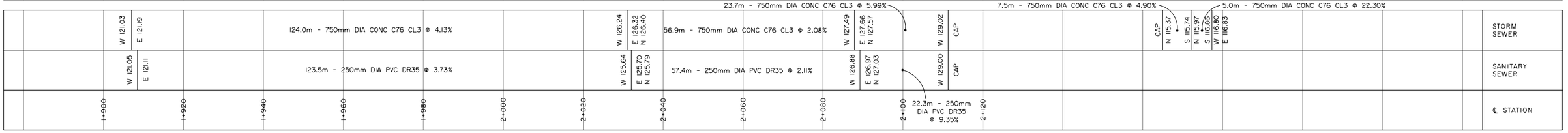
NOTES:

1. UNLESS OTHERWISE INDICATED STORM SERVICE CONNECTIONS ARE 150mm DIA PVC.
2. UNLESS OTHERWISE INDICATED SANITARY SERVICE CONNECTIONS ARE 100mm DIA PVC.
3. UNLESS OTHERWISE INDICATED CATCH BASIN AND LAWN DRAIN LEADS ARE 150mm DIA PVC.
4. ALL PVC PIPE MANUFACTURED BY ROYAL PIPE SYSTEMS.
5. ALL CONCRETE PIPE MANUFACTURED BY LANGLEY CONCRETE GROUP.
6. STORM AND SANITARY MANHOLES ARE 1050mm DIA UNLESS OTHERWISE INDICATED.

AS CONSTRUCTED







IMPORTANT:
HYDRO, GAS AND TELEPHONE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, TERASEN GAS AND TELUS FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING**. ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

Coquitlam
Record Drawing Number
D2538-06
S1895-06

InterCAD
CONSULTING ENGINEERS

NO.	DATE	REVISIONS	BY	APPROVED
3	10-12-22	As Constructed	J.B.R.	
2	08-05-07	Issued for Construction	B.E.	
1	08-03-14	Issued for Tender	B.E.	

Client: Wesbild

Project: David Avenue

Scale: 0 10 20 30 — 1:500

Design: R. SKAPSKI | Drawn: D. YOUNG

Plot Date: 12/22/2010 | Plot Time: 4:04:56 PM

Title: Storm and Sanitary Sewer — Reduced Construction

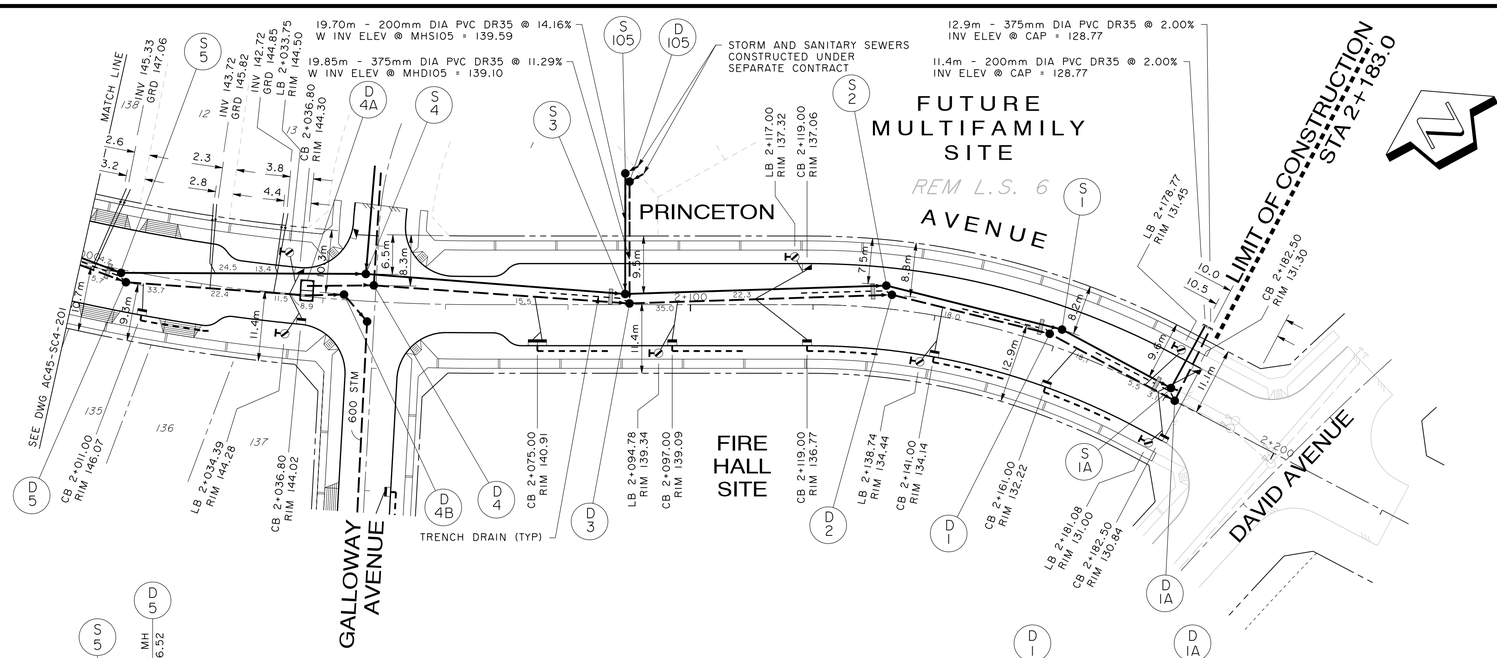
Drawing Number: AC45-DAR-204 | Revision: 3

I:\ac45\usin\DAVID-AVE\AS-BUILT\Reduced+Const\daR-204.dgn 12/22/2010 4:04:56 PM

IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

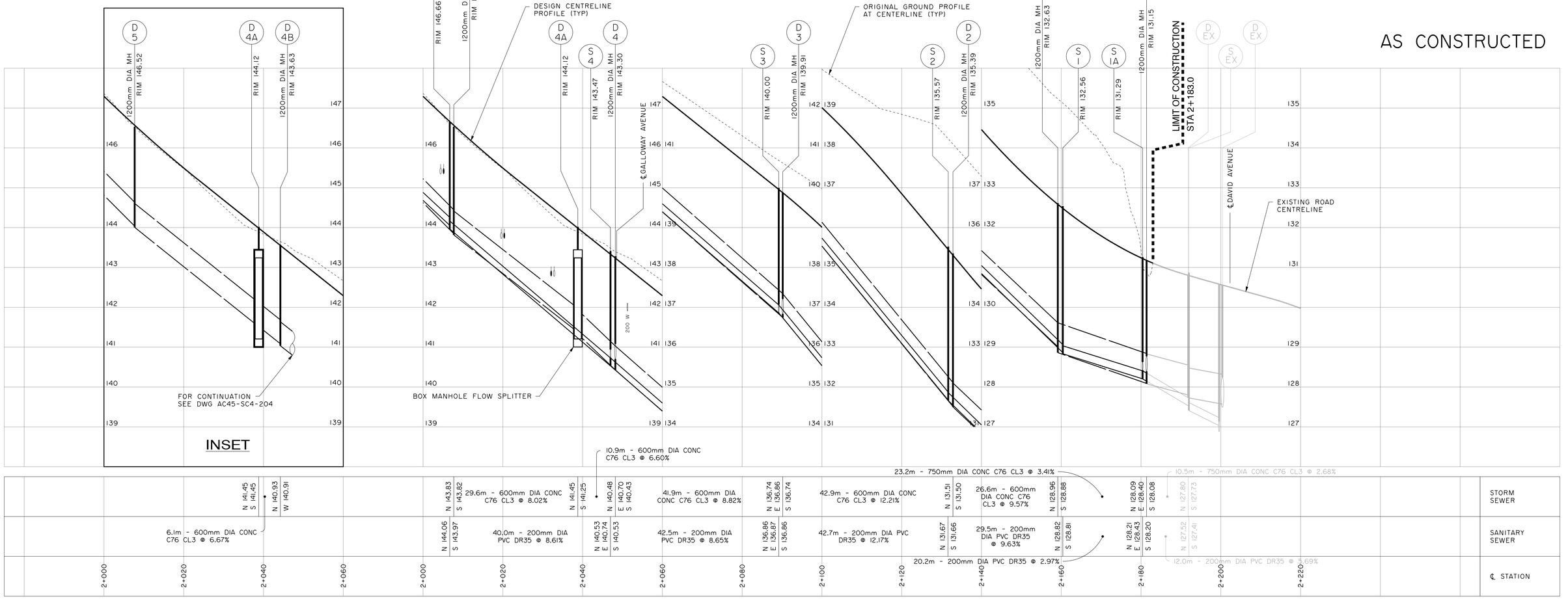
THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**



NOTES:

1. UNLESS OTHERWISE INDICATED STORM SERVICE CONNECTIONS ARE 150mm DIA PVC.
2. UNLESS OTHERWISE INDICATED SANITARY SERVICE CONNECTIONS ARE 100mm DIA PVC.
3. ALL PVC PIPE MANUFACTURED BY ROYAL PIPE.
4. ALL CONCRETE PIPE MANUFACTURED BY LANGLEY CONCRETE.
5. STORM AND SANITARY MANHOLES ARE 1050mm DIA UNLESS OTHERWISE INDICATED.
6. SERVICE CONNECTION OFFSETS SHOWN ON DRAWING INDICATE DISTANCE ALONG THE PROPERTY LINE FROM NEAREST LOT CORNER.

AS CONSTRUCTED



NO.	DATE	REVISIONS	BY	APPROVED
5	13-07-04	As Constructed	J.C.	
4	12-10-18	Issued for Construction	J.C.	
3	12-09-11	Second Submission for City Approval	J.C.	
2	12-07-26	Issued for Tender	J.C.	
1	12-06-20	First Submission for City Approval	J.C.	

InterCAD
CONSULTING ENGINEERS

Client: Wesbild

Project: Smiling Creek Neighbourhood
Development Parcel SC-4 - Phase One

Scale: 0 10 20 30 — 1:500

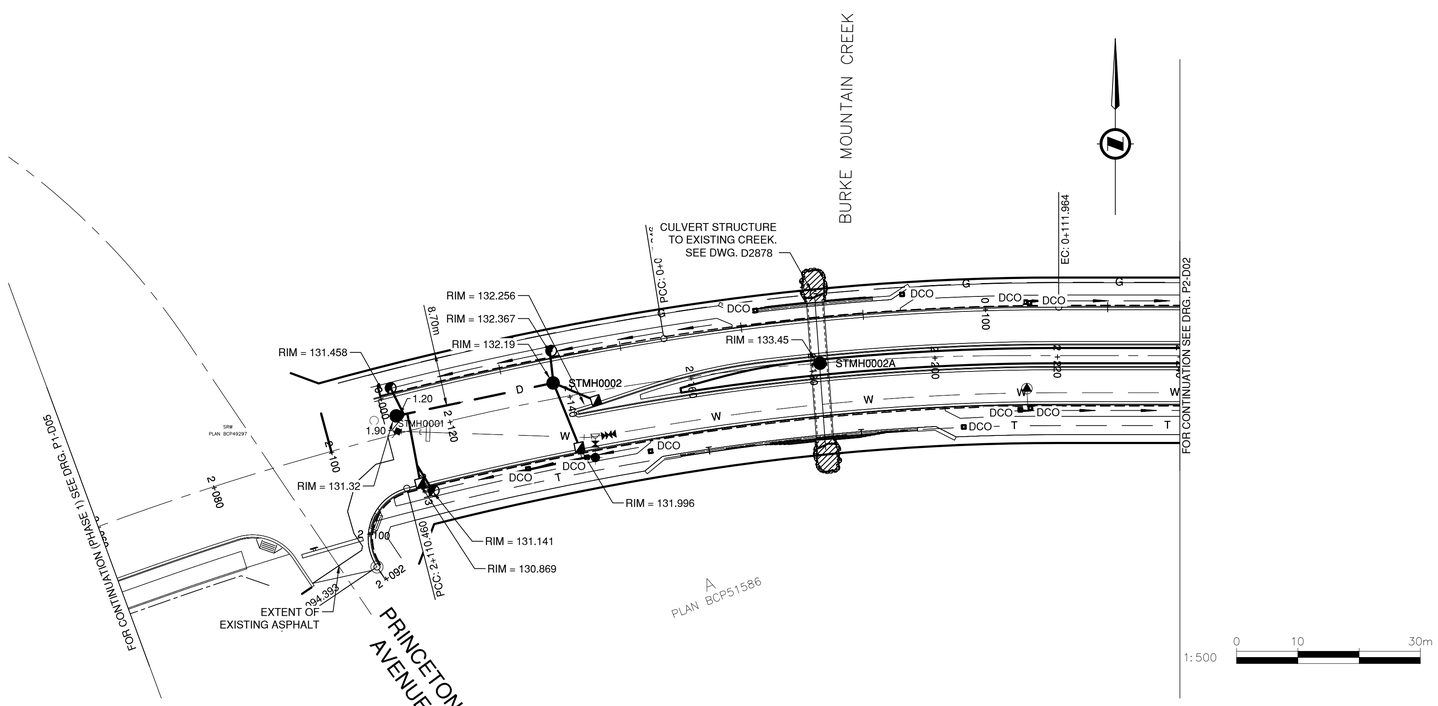
Design: J. CHEUNG | Drawn: M. CARREIRA

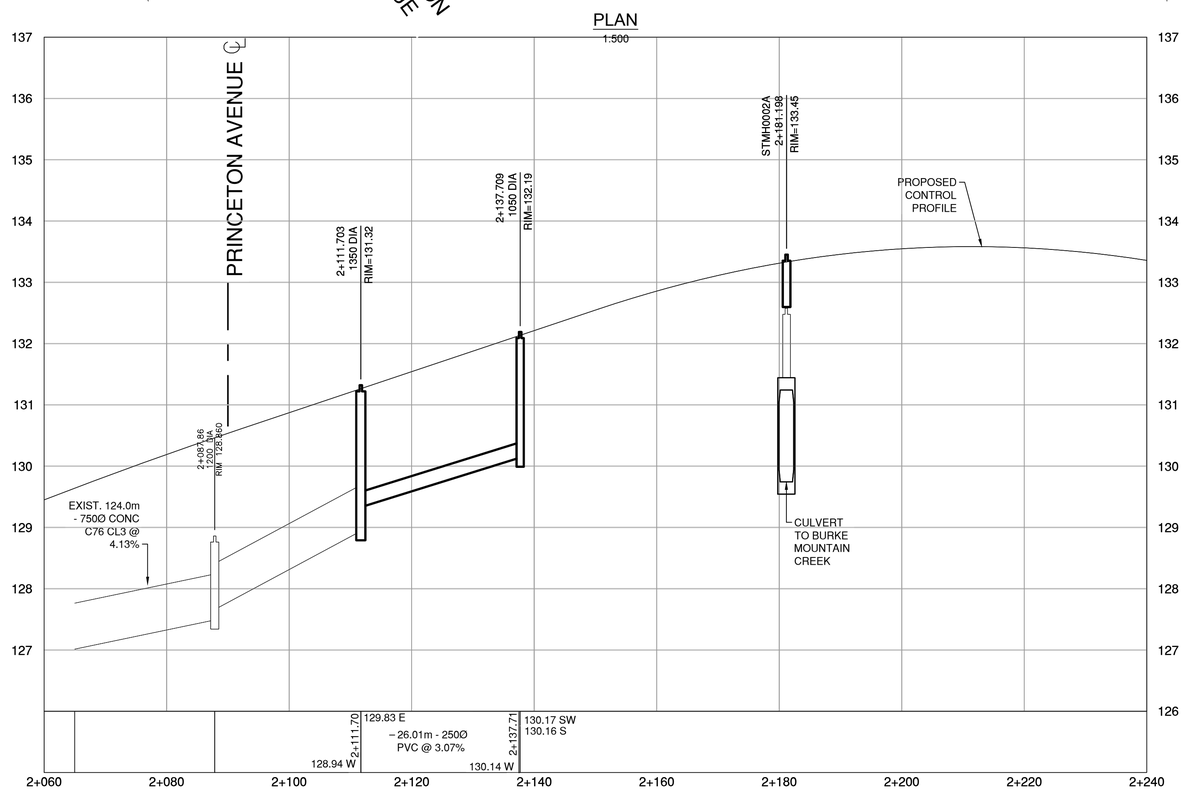
Plot Date: 3/6/2014 | Plot Time: 1:42:59 PM

Title: Storm and Sanitary Sewer
Princeton Avenue
Sta. 1+178.1 to Sta. 2+000.0

Drawing Number: **D2698-02** S2002-02 | Revision: 5

I:\ac45\ustn\smingerk\As-built\SC-4-Ph1\Drawings\SC4-202.dgn 3/6/2014 1:42:59 PM





IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

NOTES:
1. STORM SEWER SHALL BE CONSTRUCTED TO MMCD 2009 EDITION AND CITY OF COQUITLAM SUPPLEMENTARY SPECIFICATIONS.

2. STORM SEWER MAINS SHALL BE PVC DR35 PIPE.

3. FOR TYPICAL TRENCH SECTION SEE CITY OF COQUITLAM STD. DWG. COQ-G4.

4. ALL STORM SEWER SERVICE CONNECTIONS SHALL BE 150mm DIAMETER PVC DR28 PIPE c/w INSPECTION CHAMBER (MMCD STD. DWG. "S9") CENTRED AT A 300mm OFFSET FROM PROPERTY LINE AND INSTALLED AS PER MMCD STD. DWG. "S8".

5. FOR SIDE INLET CATCHBASIN DETAILS SEE CITY OF COQUITLAM'S STD. DWG. COQ-S11A. ALL CATCHBASIN COVERS TO BE BICYCLE FRIENDLY; DOBNEY B39A (FRAME), B39 (GRATE) AND B39B SIDE INLET.

6. FOR MANHOLE DETAILS SEE MMCD STD. DWG. "S1", "S2" AND "S3". ALL MANHOLES SHALL BE 1050mm DIAMETER, UNLESS OTHERWISE NOTED ON DRAWING.

7. ELEVATIONS ARE DERIVED FROM CONTROL MONUMENT 2383. NORTHING = 2568.662, EASTING = 9014.163, ELEVATION = 131.177m, LOCATED AT NORTH EAST CORNER OF THE INTERSECTION OF DAVID AVENUE AND PRINCETON AVENUE.

8. SINGLE CB AND LB LEADS TO BE 200mm. DOUBLE CB OR CB/LB COMBINATION TO BE 250mm.

9. CONNECT LAWN BASIN LEADS DIRECTLY TO CB LEADS WITH WYE.

LEGEND:

(1) 150mm PERFORATED PVC INTERCEPT DRAIN C/W CONCRETE SACK DAM. CONNECTED INTO LAWN DRAIN.

(2) 12m LONG150m PERFORATED PVC DISPERSAL DRAIN C/W CLEAN OUT, BACKFILLED WITH CLEAR CRUSH GRAVEL AND FILTER CLOTH SURROUND CONNECTED TO CATCH BASIN.

▫ DCO - DITCH CLEANOUT

BC 1 CALL — CALL BEFORE YOU DIG! 1-800-474-6886 or by CELLULAR #6886 Vancouver Area 257-9140 — CALL AT LEAST TWO FULL WORKING DAYS BEFORE YOU PLAN TO DIG

COQ. ASBUILT No.
D2877-01

PLOT DATE: January 18, 2017

Edge of pavement	Drainage sewer and MH	Sanitary sewer and MH	U/G signal/light duct
Asphalt curb	Drainage service, Cleanout	Sanitary service, Cleanout	Streetlight, davit
Concrete sidewalk	Catch basin, top inlet	Sanitary sewer, forcemain	Streetlight, post top
Concrete curb	Catch basin, side inlet	U/G electrical duct and MH	Traffic signal pole
Watermain and valve	Catch basin, round	Utility pole	Traffic signal post
Water service box/curb stop	Swale	Utility pole with light	Traffic street sign
Hydrant	Ditch	Junction box	Flasher
Water blowoff	Culvert	U/G telephone and MH	Signal fixture
Water air valve	Inlet/Outlet Structure	U/G gas main and valve	Combination traffic signal pole

NO.	DATE	BY	REVISIONS	ENG.
7				
6				
5				
4	2017-01-10	RL	ISSUED ASBUILT	TB
3	2016-05-17	WL	ISSUED FOR CONSTRUCTION	DC
2	2016-04-21	WL	ISSUED FOR TENDER	DC
1	2014-05-20	CW	DETAILED DESIGN	DC

DESIGN BY DC	DATE 2014-05-20
DRAWN BY CW	DATE 2014-05-20
CHECKED BY DC	DATE 2014-05-20
APPROVED BY SR	DATE 2014-05-20

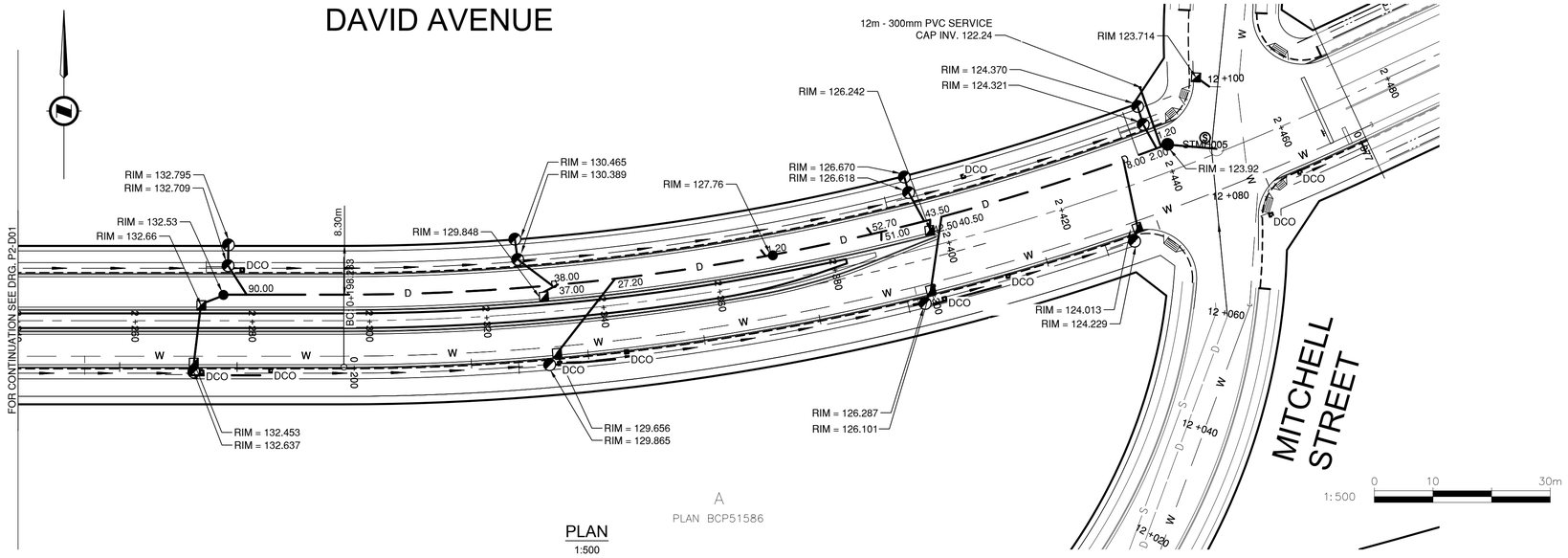
PARSONS
METROTOWER I, SUITE 2300, 4710 KINGSWAY,
BURNABY, BRITISH COLUMBIA, CANADA V5H 4M2
TEL: 604-438-5300 FAX: 604-438-5350
www.parsons.com

Coquitlam
Engineering & Public Works
3000 Guildford Way, Coquitlam, B.C. V3B 7N2

SCALE HORIZ. 1:500 SCALE VERT. 1:50
SHEET 1 OF 3
ENG PROJECT NUMBER 74031

PROJECT
DAVID AVENUE EXTENSION
STA. 2+090.070 TO STA. 2+240.000
DESCRIPTION
PHASE 2 - STORM MAIN P2-D01
File: TV1095TVA-P2-D01_02 AS BUILT

DAVID AVENUE



A
PLAN BCP51586

PLAN
1:500

NOTES:
1. STORM SEWER SHALL BE CONSTRUCTED TO MMCD 2009 EDITION AND CITY OF COQUITLAM SUPPLEMENTARY SPECIFICATIONS.

2. STORM SEWER MAINS SHALL BE PVC DR35 PIPE.

3. FOR TYPICAL TRENCH SECTION SEE CITY OF COQUITLAM STD. DWG. COQ-G4.

4. ALL STORM SEWER SERVICE CONNECTIONS SHALL BE 150mm DIAMETER PVC DR28 PIPE c/w INSPECTION CHAMBER (MMCD STD. DWG. "S9") CENTRED AT A 300mm OFFSET FROM PROPERTY LINE AND INSTALLED AS PER MMCD STD. DWG. "S8".

5. FOR SIDE INLET CATCHBASIN DETAILS SEE CITY OF COQUITLAM'S STD. DWG. COQ-S11A. ALL CATCHBASIN COVERS TO BE BICYCLE FRIENDLY; DOBNEY B39A (FRAME), B39 (GRATE) AND B39B SIDE INLET.

6. FOR MANHOLE DETAILS SEE MMCD STD. DWG. "S1", "S2" AND "S3". ALL MANHOLES SHALL BE 1050mm DIAMETER, UNLESS OTHERWISE NOTED ON DRAWING.

7. ELEVATIONS ARE DERIVED FROM CONTROL MONUMENT 2383. NORTHING = 2568.662, EASTING = 9014.163, ELEVATION = 131.177m, LOCATED AT NORTH EAST CORNER OF THE INTERSECTION OF DAVID AVENUE AND PRINCETON AVENUE.

8. CB AND LB LEADS TO BE 200mm. DOUBLE CB AND CB/LB COMBINATION LEADS TO BE 250mm.

9. CONNECT LAWN BASIN LEADS DIRECTLY INTO CB LEAD WITH WYE.

LEGEND:

(1) 150mm PERFORATED PVC INTERCEPT DRAIN C/W CONCRETE SACK DAM. CONNECTED INTO LAWN DRAIN.

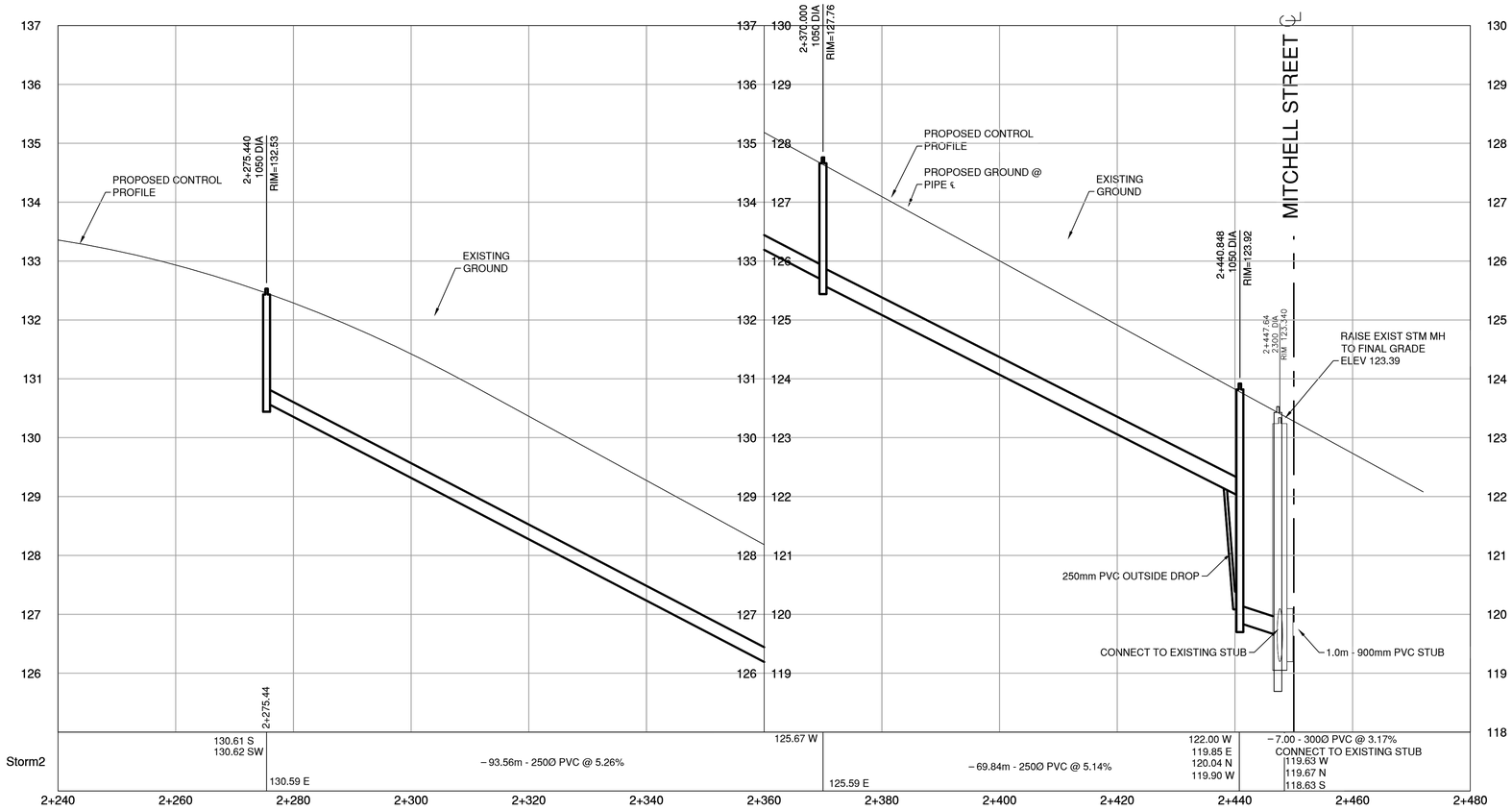
(2) 12m LONG150m PERFORATED PVC DISPERSAL DRAIN C/W CLEAN OUT, BACKFILLED WITH CLEAR CRUSH GRAVEL AND FILTER CLOTH SURROUND CONNECTED TO CATCH BASIN.

▫ DCO - DITCH CLEANOUT

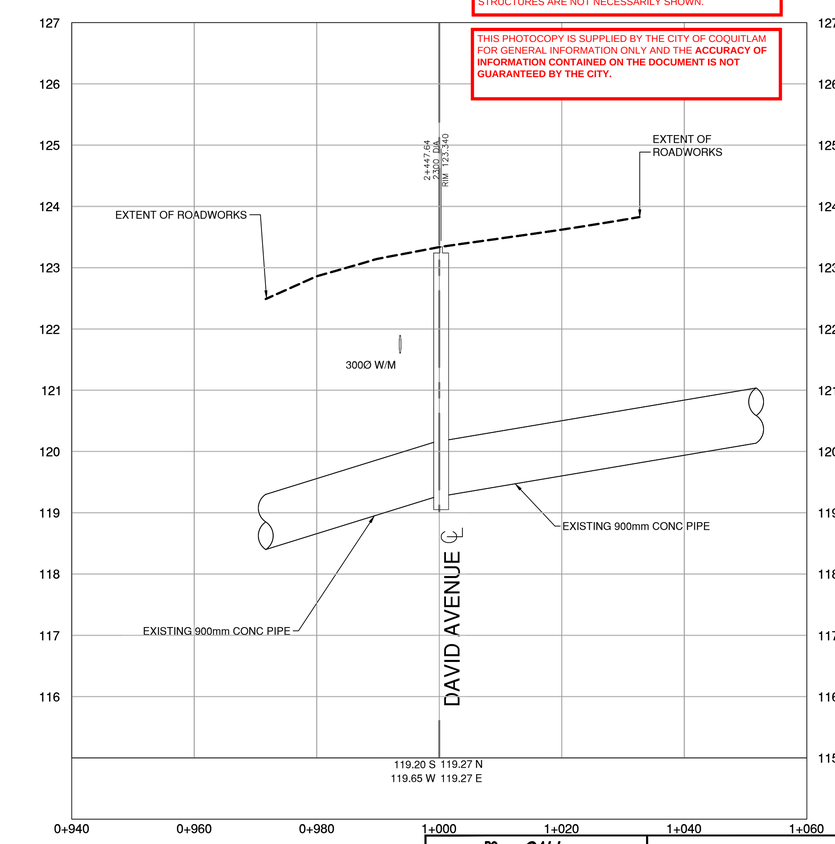
IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**



PROFILE
HOR: 1:500 VER: 1:50



PROFILE (MITCHELL STREET)
HOR: 1:500 VER: 1:50

BC 1 CALL
CALL BEFORE YOU DIG!
1-800-474-6886
or by CELLULAR *6886
Vancouver Area 257-7640
CALL AT LEAST TWO FULL WORKING DAYS BEFORE YOU PLAN TO DIG

COQ. ASBUILT No.
D2877-02

PLOT DATE: January 18, 2017

Edge of pavement	Drainage sewer and MH	Sanitary sewer and MH	U/G signal/light duct
Asphalt curb	Drainage service, Cleanout	Sanitary service, Cleanout	Streetlight, davit
Concrete sidewalk	Catch basin, top inlet	Sanitary sewer, forcemain	Streetlight, post top
Concrete curb	Catch basin, side inlet	U/G electrical duct and MH	Traffic signal pole
Watermain and valve	Catch basin, round	Utility pole	Traffic signal post
Water service box/curb stop	Swale	Utility pole with light	Traffic street sign
Hydrant	Ditch	Junction box	Flasher
Water blowoff	Culvert	U/G telephone and MH	Signal fixture
Water air valve	Inlet/Outlet Structure	U/G gas main and valve	Combination traffic signal pole

NO.	DATE	BY	REVISIONS	ENG.
7				
6				
5				
4	2017-01-10	RL	ISSUED ASBUILT	TB
3	2016-05-17	WL	ISSUED FOR CONSTRUCTION	DC
2	2016-04-21	WL	ISSUED FOR TENDER	DC
1	2014-05-20	CW	DETAILED DESIGN	DC

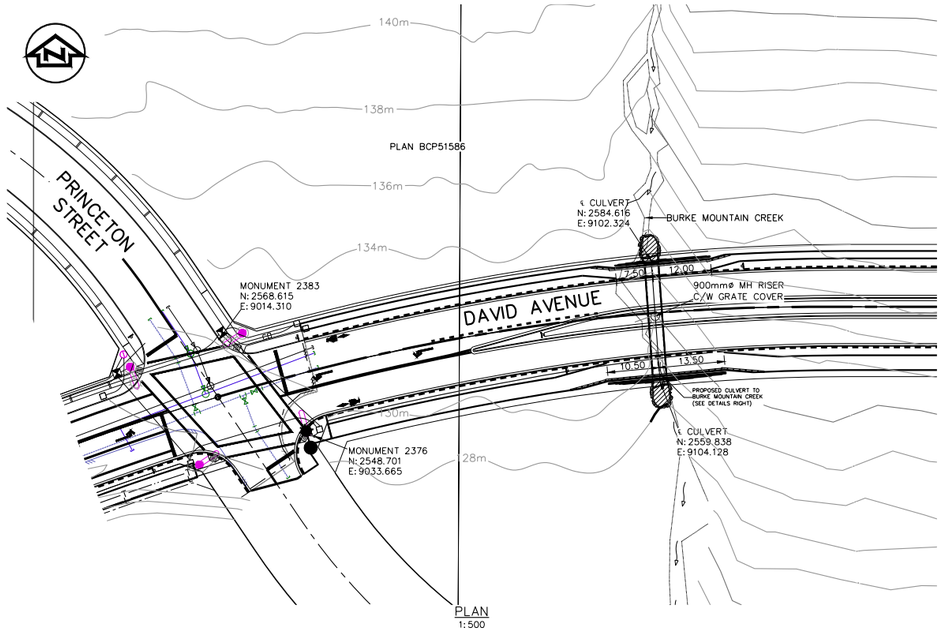
DESIGN BY DC	DATE 2014-05-20
DRAWN BY CW	DATE 2014-05-20
CHECKED BY DC	DATE 2014-05-20
APPROVED BY SR	DATE 2014-05-20

PARSONS
METROTOWER I, SUITE 2300, 4710 KINGSWAY, BURNABY, BRITISH COLUMBIA, CANADA V5H 4M2
TEL: 604-438-5300 FAX: 604-438-5350
www.parsons.com

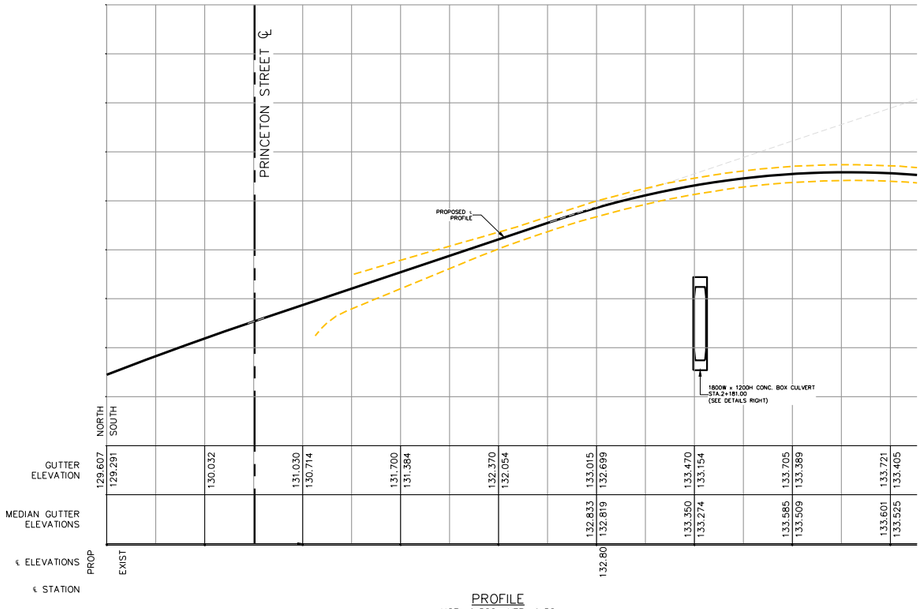
Coquitlam
Engineering & Public Works
3000 Guildford Way, Coquitlam, B.C. V3B 7N2

SCALE HORIZ. 1:500 SCALE VERT. 1:50
SHEET 2 OF 3
ENG PROJECT NUMBER 74031

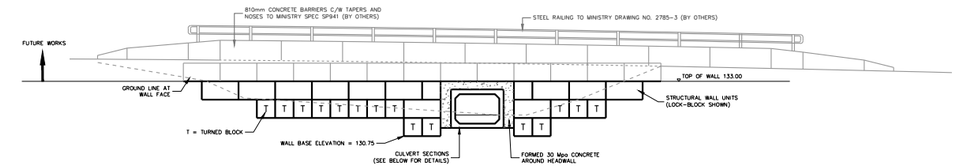
PROJECT
DAVID AVENUE EXTENSION
STA. 2+240.070 TO STA. 2+471.334
DESCRIPTION
PHASE 2 - STORM MAIN P2-D02
File: TV1095TVA-P2-D01_02 AS BUILT



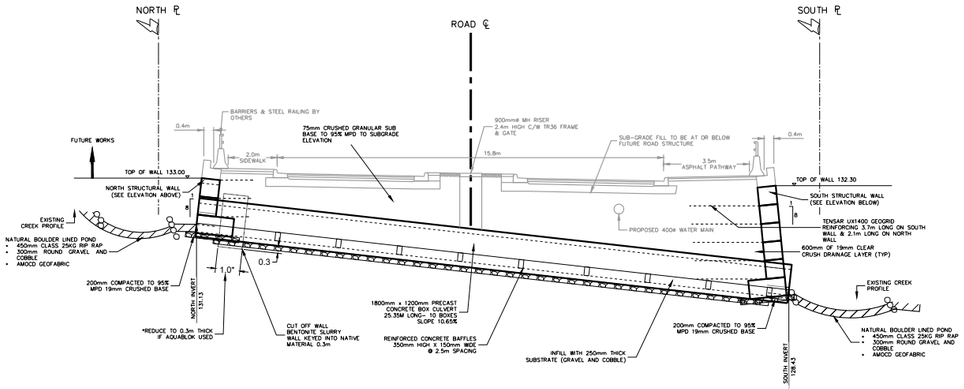
PLAN
1:500



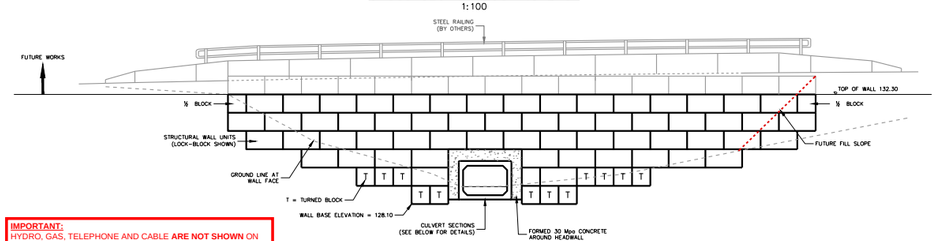
PROFILE
HOR: 1:500 VER: 1:50



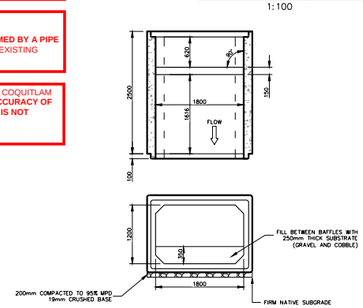
NORTH FACE ELEVATION
1:100



CROSS SECTION LOOKING EAST
1:100



SOUTH FACE ELEVATION
1:100



LAYOUT & DIMENSIONS
1:50

IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

The seal and signature of the undersigned on this drawing certifies that the design information contained in these drawings accurately reflects the original design and the material design changes made during construction, that were brought to the undersigned's attention. These drawings are intended to incorporate addenda, change orders, and other material design changes, but not necessarily all site instructions.
The undersigned does not warrant or guarantee, nor accept any responsibility for the accuracy or completeness of the as-constructed information supplied by others contained in these drawings, but does, by sealing and signing, certify that the as-constructed information, if accurate and complete, provides an as-constructed system which substantially complies in all material respects with the original design intent.

BC CALL BEFORE YOU DIG
1-800-474-6886
or by CELLULAR HERE
Vancouver Area 257-7410
CALL AT LEAST TWO FULL WORKING DAYS BEFORE YOU PLAN TO DIG

COQ. ASBUILT No.
D2878

Coquitlam

SEAL

No.	REVISION DESCRIPTION	DATE (Y/M/D)	BY	CHECK
3	ISSUED ASBUILT	2015/12/11	WL	DC
2	ISSUED FOR CONSTRUCTION	2015/09/26	CW	DC
1	ISSUED FOR TENDER	2015/08/31	CW	DC
0	RECORD DRAWING	2014/03/10	CW	DC

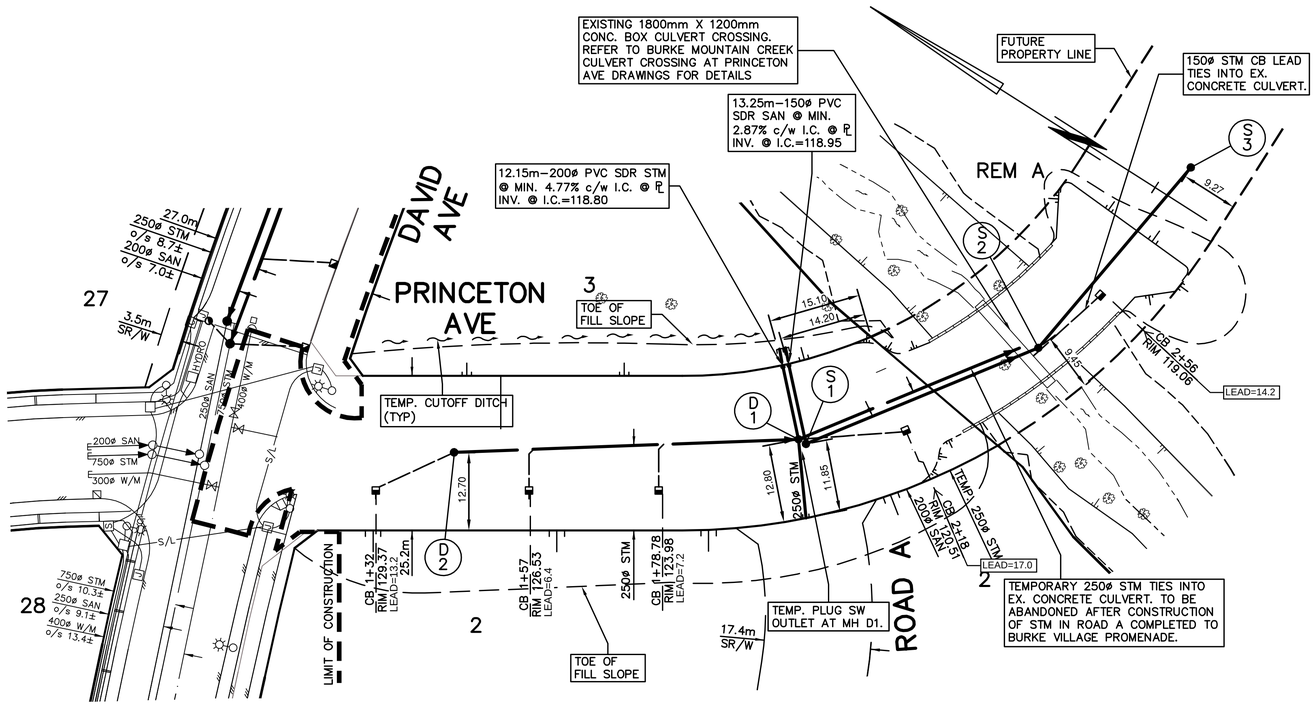
DESIGN	C.WOOLLACOTT
DRAWN	C.WOOLLACOTT
CHECK	D.CHALMERS
APPROVED	S.RUSSELL
DATE	2014/03/10
SCALE	1:500, 1:50
PROJECT No.	TV1095

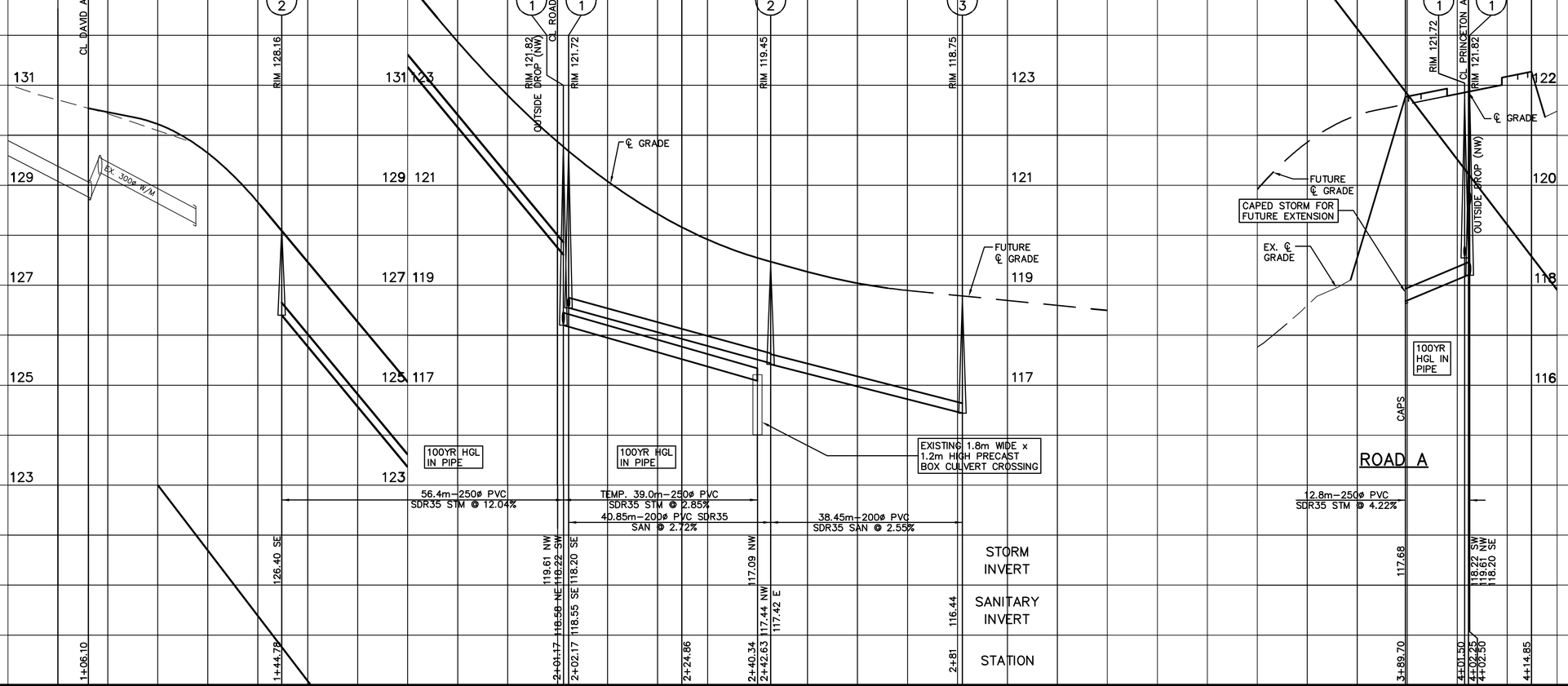
Delcan
METROTOWER I, SUITE 2300, 4710 KINGSWAY,
BURNABY, BRITISH COLUMBIA, CANADA V5H 4M2
TEL: 604-438-5300 FAX: 604-438-5350
www.delcan.com

CITY OF COQUITLAM
DAVID AVENUE
ROAD IMPROVEMENTS
DC
CULVERT CROSSING (STA. 2+181.000)

SHEET No. SK01
OF
REV. 3
DRAWING NO. TV1095-TVA-SK01

G:\PROJECTS\COQUITLAM\DAVID AVENUE\ROAD IMPROVEMENTS\DESIGN\CULVERT\DWG\TV1095-TVA-SK01 AS BUILT.DWG 24/07/2015 2:35:04 PM PSEVANS





COQ AS BUILT
D2976
S2165

IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

NOTE:
1. SEE SHEET #2 FOR GENERAL NOTES, STORM AND SANITARY NOTES.

REV.	DATE		DR.	APP.
A	10.21.15	FIRST DESIGN SUBMISSION	M.L.	M.F.
B	10.12.16	REVISED AS PER CITY COMMENTS	P.L.B.	D.J.R.
C	04.03.17	REVISED AS PER CITY COMMENTS	M.L.	D.J.R.
D	04.20.17	REVISED AS PER CITY COMMENTS	M.L.	D.J.R.
E	04.24.17	ISSUED FOR TENDER	M.L.	D.J.R.
F	04.10.18	AS CONSTRUCTED DRAWING	V.M.	B.C.R

CLIENT
CITY OF COQUITLAM
3000 GUILFORD WAY, COQUITLAM, BC V3B 7N2
PH : 604–927–3504 , FAX : 604–927–3505

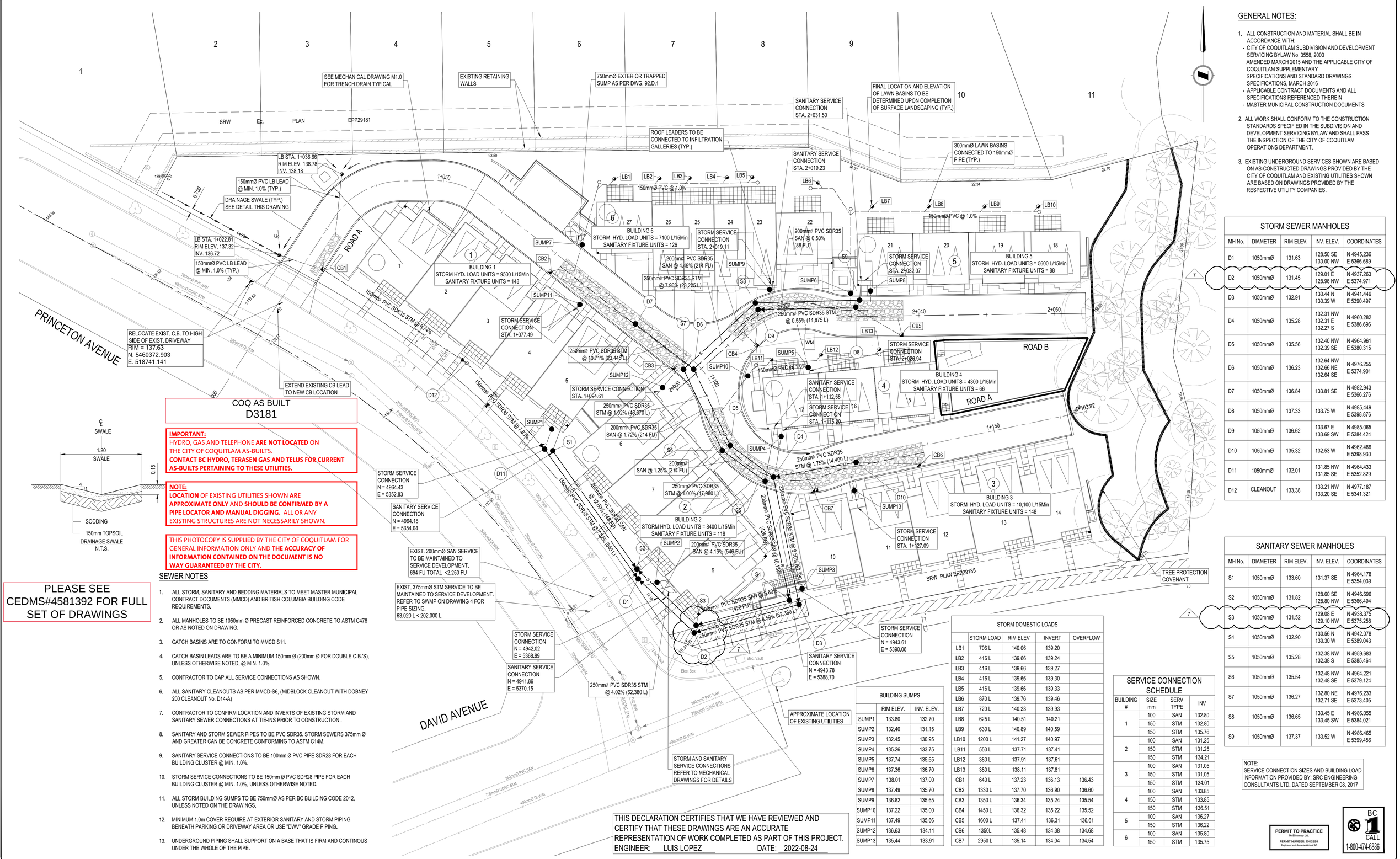
PROJECT
PRINCETON AVE. SOUTH OF DAVID AVE., COQUITLAM, BC

DRAWING TITLE
STORM & SANITARY SEWERS
PRINCETON AVE

WSP CANADA INC.
#300 - 65 RICHMOND STREET
NEW WESTMINSTER, B.C.
CANADA V3L 5P5
TEL. 604-525-4651 | FAX. 604-525-5715
WWW.WSPGROUP.COM

TITLE: STORM & SANITARY
SCALE: HORZ. 1:500 VERT. 1:50
DATE: SEP., 2015
FB. PG.
DRAWN: M.L.
DESIGN: M.F.
CHECKED: D.J.R.
PROJECT NO. 60257
DRAWING NO.
SHEET NO. 4 OF 10
JOB NO. 161–00097–00

THIS DRAWING REMAINS THE PROPERTY OF WSP CANADA INC. AND ITS REPRODUCTION OR USE WITHOUT WRITTEN PERMISSION IS PROHIBITED.
DESTROY PRINTS OF THIS DRAWING BEARING PREVIOUS LETTERS



COQ AS BUILT
D3181

IMPORTANT:
HYDRO, GAS AND TELEPHONE **ARE NOT LOCATED** ON THE CITY OF COQUITLAM AS-BUILTS.
CONTACT BC HYDRO, TERASEN GAS AND TELUS FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN **ARE APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND **THE ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NO WAY GUARANTEED BY THE CITY.**

PLEASE SEE CEDMS#4581392 FOR FULL SET OF DRAWINGS

SEWER NOTES

1. ALL STORM, SANITARY AND BEDDING MATERIALS TO MEET MASTER MUNICIPAL CONTRACT DOCUMENTS (MMCD) AND BRITISH COLUMBIA BUILDING CODE REQUIREMENTS.
2. ALL MANHOLES TO BE 1050mm Ø PRECAST REINFORCED CONCRETE TO ASTM C478 OR AS NOTED ON DRAWING.
3. CATCH BASINS ARE TO CONFORM TO MMCD S11.
4. CATCH BASIN LEADS ARE TO BE A MINIMUM 150mm Ø (200mm Ø FOR DOUBLE C.B.'S), UNLESS OTHERWISE NOTED, @ MIN. 1.0%.
5. CONTRACTOR TO CAP ALL SERVICE CONNECTIONS AS SHOWN.
6. ALL SANITARY CLEANOUTS AS PER MMCD-S6, (MIDBLOCK CLEANOUT WITH DOBNEY 200 CLEANOUT No. D14-A)
7. CONTRACTOR TO CONFIRM LOCATION AND INVERTS OF EXISTING STORM AND SANITARY SEWER CONNECTIONS AT TIE-INS PRIOR TO CONSTRUCTION .
8. SANITARY AND STORM SEWER PIPES TO BE PVC SDR35. STORM SEWERS 375mm Ø AND GREATER CAN BE CONCRETE CONFORMING TO ASTM C14M.
9. SANITARY SERVICE CONNECTIONS TO BE 100mm Ø PVC PIPE SDR28 FOR EACH BUILDING CLUSTER @ MIN. 1.0%.
10. STORM SERVICE CONNECTIONS TO BE 150mm Ø PVC SDR28 PIPE FOR EACH BUILDING CLUSTER @ MIN. 1.0%, UNLESS OTHERWISE NOTED.
11. ALL STORM BUILDING SUMPS TO BE 750mmØ AS PER BC BUILDING CODE 2012, UNLESS NOTED ON THE DRAWINGS.
12. MINIMUM 1.0m COVER REQUIRE AT EXTERIOR SANITARY AND STORM PIPING BENEATH PARKING OR DRIVEWAY AREA OR USE "DWV" GRADE PIPING.
13. UNDERGROUND PIPING SHALL SUPPORT ON A BASE THAT IS FIRM AND CONTINOUS UNDER THE WHOLE OF THE PIPE.

GENERAL NOTES:

1. ALL CONSTRUCTION AND MATERIAL SHALL BE IN ACCORDANCE WITH:
   - CITY OF COQUITLAM SUBDIVISION AND DEVELOPMENT SERVICING BYLAW No. 3558, 2003 AMENDED MARCH 2015 AND THE APPLICABLE CITY OF COQUITLAM SUPPLEMENTARY SPECIFICATIONS AND STANDARD DRAWINGS SPECIFICATIONS, MARCH 2016
   - APPLICABLE CONTRACT DOCUMENTS AND ALL SPECIFICATIONS REFERENCED THEREIN
   - MASTER MUNICIPAL CONSTRUCTION DOCUMENTS
2. ALL WORK SHALL CONFORM TO THE CONSTRUCTION STANDARDS SPECIFIED IN THE SUBDIVISION AND DEVELOPMENT SERVICING BYLAW AND SHALL PASS THE INSPECTION OF THE CITY OF COQUITLAM OPERATIONS DEPARTMENT.
3. EXISTING UNDERGROUND SERVICES SHOWN ARE BASED ON AS-CONSTRUCTED DRAWINGS PROVIDED BY THE CITY OF COQUITLAM AND EXISTING UTILITIES SHOWN ARE BASED ON DRAWINGS PROVIDED BY THE RESPECTIVE UTILITY COMPANIES.

STORM SEWER MANHOLES

MH No.	DIAMETER	RIM ELEV.	INV. ELEV.	COORDINATES
D1	1050mmØ	131.63	128.50 SE 130.00 NW	N 4945.236 E 5366.689
D2	1050mmØ	131.45	129.01 E 128.96 NW	N 4937.263 E 5374.971
D3	1050mmØ	132.91	130.44 N 130.39 W	N 4941.446 E 5390.497
D4	1050mmØ	135.28	132.31 NW 132.31 E 132.27 S	N 4960.282 E 5386.696
D5	1050mmØ	135.56	132.40 NW 132.39 SE	N 4964.961 E 5380.315
D6	1050mmØ	136.23	132.64 NW 132.66 NE 132.64 SE	N 4976.255 E 5374.901
D7	1050mmØ	136.84	133.81 SE	N 4982.943 E 5366.276
D8	1050mmØ	137.33	133.75 W	N 4985.449 E 5398.876
D9	1050mmØ	136.62	133.67 E 133.69 SW	N 4985.065 E 5384.424
D10	1050mmØ	135.32	132.53 W	N 4962.486 E 5398.930
D11	1050mmØ	132.01	131.85 NW 131.85 SE	N 4964.433 E 5352.829
D12	CLEANOUT	133.38	133.21 NW 133.20 SE	N 4977.187 E 5341.321

SANITARY SEWER MANHOLES

MH No.	DIAMETER	RIM ELEV.	INV. ELEV.	COORDINATES
S1	1050mmØ	133.60	131.37 SE	N 4964.178 E 5354.039
S2	1050mmØ	131.82	128.60 SE 128.80 NW	N 4946.696 E 5366.494
S3	1050mmØ	131.52	129.06 E 129.10 NW	N 4938.375 E 5375.258
S4	1050mmØ	132.90	130.56 N 130.30 W	N 4942.078 E 5389.043
S5	1050mmØ	135.28	132.38 NW 132.38 S	N 4959.683 E 5385.464
S6	1050mmØ	135.54	132.48 NW 132.48 SE	N 4964.221 E 5379.124
S7	1050mmØ	136.27	132.80 NE 132.71 SE	N 4976.233 E 5373.405
S8	1050mmØ	136.65	133.45 E 133.45 SW	N 4986.055 E 5384.021
S9	1050mmØ	137.37	133.52 W	N 4986.465 E 5399.456

BUILDING SUMPS

	RIM ELEV.	INV. ELEV.
SUMP1	133.80	132.70
SUMP2	132.40	131.15
SUMP3	132.45	130.95
SUMP4	135.26	133.75
SUMP5	137.74	135.65
SUMP6	137.36	136.70
SUMP7	138.01	137.00
SUMP8	137.49	135.70
SUMP9	136.82	135.65
SUMP10	137.22	135.00
SUMP11	137.49	135.66
SUMP12	136.63	134.11
SUMP13	135.44	133.91

STORM DOMESTIC LOADS

	STORM LOAD	RIM ELEV	INVERT	OVERFLOW
LB1	706 L	140.06	139.20	
LB2	416 L	139.66	139.24	
LB3	416 L	139.66	139.27	
LB4	416 L	139.66	139.30	
LB5	416 L	139.66	139.33	
LB6	870 L	139.76	139.46	
LB7	720 L	140.23	139.93	
LB8	625 L	140.51	140.21	
LB9	630 L	140.89	140.59	
LB10	1200 L	141.27	140.97	
LB11	550 L	137.71	137.41	
LB12	380 L	137.91	137.61	
LB13	380 L	138.11	137.81	
CB1	640 L	137.23	136.13	136.43
CB2	1330 L	137.70	136.90	136.60
CB3	1350 L	136.34	135.24	135.54
CB4	1450 L	136.32	135.22	135.52
CB5	1600 L	137.41	136.31	136.61
CB6	1350L	135.48	134.38	134.68
CB7	2950 L	135.14	134.04	134.54

SERVICE CONNECTION SCHEDULE

BUILDING #	SIZE mm	SERV TYPE	INV
1	100	SAN	132.80
	150	STM	132.80
	150	STM	135.76
2	100	SAN	131.25
	150	STM	131.25
	150	STM	134.21
3	100	SAN	131.05
	150	STM	131.05
	150	STM	134.01
4	100	SAN	133.85
	150	STM	133.85
	150	STM	136.51
5	100	SAN	136.27
	150	STM	136.22
6	100	SAN	135.80
	150	STM	135.75

NOTE:
SERVICE CONNECTION SIZES AND BUILDING LOAD INFORMATION PROVIDED BY: SRC ENGINEERING CONSULTANTS LTD. DATED SEPTEMBER 08, 2017

THIS DECLARATION CERTIFIES THAT WE HAVE REVIEWED AND CERTIFY THAT THESE DRAWINGS ARE AN ACCURATE REPRESENTATION OF WORK COMPLETED AS PART OF THIS PROJECT.
ENGINEER: LUIS LOPEZ DATE: 2022-08-24

PERMIT TO PRACTICE
McElhanney Ltd.
PERMIT NUMBER: 1003299
Engineers and Geoscientists of BC

BC 1 CALL
1-800-474-6886

Edge of pavement
Watermain and valve — W
Drainage sewer, MH — D
Drainage ditch
Sanitary sewer, MH — S
Sanitary forcemain — FM
Gasmain and valve
Hydro duct, MH
Telephone duct, MH
Hydrant
Water air valve
Water blowoff
Water service
Catch basin, top inlet
Catch basin, side inlet
Catch basin, round
Drainage service
Drainage cleanout
Sanitary service
Sanitary cleanout
Utility pole(joint pole)
Utility pole with light
Streetlight, davit
Streetlight, post top
Comb signal pole
Traffic signal pole
Traffic signal post

STAMP

NO.	DATE	BY	REVISIONS	ENG.
7	2018.09.11	DS	MANHOLE RELOCATION	LL
6	2018.08.24	DS	ISSUED FOR CONSTRUCTION	LL
5	2018.05.01	HR	REVISED AS PER CITY COMMENTS	LL
4	2017.10.05	HR	REVISED AS PER CITY COMMENTS	LL
3	2017.09.27	HR	REVISED AS PER CITY COMMENTS	LL
2	2017.09.22	HR	BUILDING PERMIT REVISION	LL
1	2017.08.02	HR	BUILDING PERMIT SUBMISSION	LL

DESIGN BY DS	DATE JULY 2017
DRAWN BY HR	DATE JULY 2017
CHECKED BY LL	DATE JULY 2017
APPROVED BY LL	DATE JULY 2017

Coquitlam
McElhanney
Suite 2300 - 13450-102 Ave.
Surrey BC. Canada V3T 5X3
Tel 604 596 0391

SCALE HORIZ. 1:250 SCALE VERT.
SHEET 2 OF 10
ENG PROJECT NUMBER 2111-03673-00

PROJECT
27 UNIT TOWNHOUSE DEVELOPMENT
3535 PRINCETON AVE. COQUITLAM
DESCRIPTION
SANITARY AND STORM SEWERS

File: 03673-00-200 SAN-STM

LEGEND:

- DAVIT STREETLIGHT POLE (6.6m – 150W HPS TYPE 2 MC DISTRIBUTION, FLAT GLASS) C/W PHOTOCELL AND A 40A STREET LIGHTING SERVICE PANEL IN A 0.9m HIGH SERVICE BASE ON A TYPE C3 CONCRETE BASE
- DAVIT STREETLIGHT POLE (6.6m – 150W HPS TYPE 3 MC DISTRIBUTION, FLAT GLASS) C/W PHOTOCELL AND A 40A STREET LIGHTING SERVICE PANEL IN A 0.9m HIGH SERVICE BASE ON A TYPE C3 CONCRETE BASE
- DAVIT STREETLIGHT POLE (7.5m – 150W HPS TYPE 2 MC DISTRIBUTION, FLAT GLASS) ON A TYPE C2 CONCRETE BASE
- DAVIT STREETLIGHT POLE (7.5m – 150W HPS TYPE 3 MC DISTRIBUTION, FLAT GLASS) ON A TYPE C2 CONCRETE BASE
- DAVIT STREETLIGHT POLE
- POST–TOP STREETLIGHT POLE (6.0m – 100W HPS TYPE 2 DISTRIBUTION, TWISTPAK) ON A TYPE C2 CONCRETE BASE
- POST TOP STREETLIGHT POLE (6.0m – 100W HPS TYPE 2 DISTRIBUTION, TWISTPAK) ON A TYPE C2 CONCRETE BASE.
- PATHWAY POLE (4.6m – 70W CMH TYPE 2 DISTRIBUTION C/W HOUSE–SIDE SHIELD) ON A TYPE B CONCRETE BASE (REFER TO ELEVATION ON THIS SHEET FOR DETAILS)
- PATHWAY POLE (4.6m – 70W CMH TYPE 2 DISTRIBUTION C/W HOUSE–SIDE SHIELD) ON A TYPE B CONCRETE BASE
- JUNCTION BOX
- CV SMALL CONCRETE VAULT C/W BONDED GALVANIZED STEEL CHECKERPLATE LID LABELED "ELEC" (REFER TO MoTI DWG. SP635 1.3.3)
- R LUMINAIRE ON RED PHASE CONDUCTOR
- B LUMINAIRE ON BLACK PHASE CONDUCTOR
- 3 No.6 RW90 ST. LTG. & 1 No.8 RW90 BOND IN 30mm RPVC
- 2 No.6 RW90 ST. LTG. & 1 No.8 RW90 BOND IN 30mm RPVC
- 3 No.6 RW90 ST. LTG. & 1 No.8 RW90 BOND IN 30mm RPVC
- 2 No.6 RW90 ST. LTG. & 1 No.8 RW90 BOND IN 30mm RPVC
- CO 30mm RPVC CONDUIT ONLY
- CO 30mm RPVC CONDUIT ONLY
- SC 50mm RPVC SERVICE CONDUIT WITH 3 No. 6 RW90 SERVICE CONDUCTORS
- RPVC STUB OUT FOR FUTURE EXTENSION (CAPPED & LOCATION MARKED)

STREET LIGHTING NOTES:

1. UNLESS OTHERWISE INDICATED, ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MMCD (CURRENT ISSUE) AND THAT OF THE CITY OF COQUITLAM CURRENT SUBDIVISION CONTROL BYLAW AND MUST PASS THEIR INSPECTIONS. PLEASE CONTACT THE PROJECT COORDINATOR 72 HOURS PRIOR TO COMMENCING CONSTRUCTION.
2. CHECK BEFORE YOU DIG. THE CONTRACTOR SHALL REFER TO CIVIL "AS–BUILT" DRAWINGS FOR ALL UTILITIES, SERVICE LOCATIONS AND DETAILS. THE EXACT LOCATION OF THESE UTILITIES SHALL BE DETERMINED ON SITE.
3. PRIOR TO STREET LIGHT BASE INSTALLATIONS, THE CONTRACTOR SHALL ENSURE THAT ALL STREET LIGHT POLES AND FIXTURES SHALL BE A MINIMUM OF 3.0m CLEAR OF ALL HYDRO POLES AND OVERHEAD PRIMARY WIRES, AND 0.3m CLEAR OF ALL OVERHEAD SECONDARY WIRES.
4. THE CONTRACTOR SHALL NOTIFY PROVINCIAL AND MUNICIPAL INSPECTORS 24 HOURS PRIOR TO COMMENCEMENT OF UNDER GROUND AND ELECTRICAL WORK.
5. THE CONTRACTOR SHALL OBTAIN ALL EQUIPMENT APPROVAL PERMITS FROM THE ELECTRICAL SAFETY BRANCH. THE ELECTRICAL SAFETY BRANCH SHALL BE MADE AWARE OF THE (POSSIBLE) USE OF AN IRRIGATION SYSTEM WITHIN THE STREET LIGHT POLES.
6. MINIMUM DEPTH FOR UNDER GROUND DUCTING SHALL BE 600mm BELOW BOULEVARD AND SIDEWALKS, AND 900mm BENEATH ASPHALT, AND AS PER COQUITLAM STANDARD DRAWINGS E–5.
7. ALL POLES, ARMS, SERVICE BASES, ETC., ARE TO BE GALVANIZED, PRIMED AND POWDER–COATED IN COLOUR EQUIVALENT TO COQUITLAM LAMP STANDARD GREEN. GENERAL PAINT #16–214 B1Y12F36 EXTERIOR UV STABILIZED INDUSTRIAL ENAMEL, OR WEST COAST ENGINEERING GREEN FERN COQUITLAM PWD P5399–9.
8. ALL POLE HAND HOLE ACCESS SHALL UTILIZE WEST COAST ENGINEERING BULLDOG COVERS, RE–ENFORCED BACKING BARS AND PROVIDED WITH ROUND HOCKEY PUCK STYLE LOCKS. IF NOVA POLES SUPPLIED, USE THESE ITEMS:
   NOVA HAND HOLE COVER (FINISHED IN SAME COLOUR AS POLE)
   P/N: SMALL OPENING – USE P20–CS4X7–S01; LARGE OPENING – USE P20–CS4X7–L01. NOVA BACKING BAR P/N: P04–01–CS–L01
   NOVA SECURITY BOLT P/N: H11–SB–A0.375L (STAINLESS STEEL, 3/8–16 x 3 INCHES, LEFT HAND THREAD.)
9. LUMINAIRES ON BLACK PHASE CONDUCTOR ARE IDENTIFIED WITH A B DESIGNATION NEXT TO THE PROPOSED / EXISTING LUMINAIRES
10. LUMINAIRES ON RED PHASE CONDUCTOR ARE IDENTIFIED WITH A R DESIGNATION NEXT TO THE PROPOSED / EXISTING LUMINAIRES
11. EACH LUMINAIRE SHALL BE WIRED WITH No. 12 RW90. BLACK AND WHITE FOR 120V SERVICE, BLACK AND RED FOR 240V SERVICE.
12. EACH STREET LIGHT AND PATHWAY LUMINAIRE SHALL BE PROVIDED WITH A TRON HEB–AA WATER–RESISTANT FUSE HOLDER, C/W 2 TYPE "L" INSULATING BOOTS OR APPROVED EQUIVALENT. EACH FUSE HOLDER SHALL BE PROVIDED WITH ONE 10–A BUSS KTK–TYPE FUSE, WIRED IN LIVE CONDUCTOR(S). FOR 240V SERVICES, ONE FUSE SHALL BE IN EACH LIVE CONDUCTOR. THE FUSE HOLDER(S) SHALL BE ACCESSIBLE FROM THE HAND HOLE ACCESS AT THE POLE BASES.
13. ALL LUMINAIRES SHALL BE BONDED WITH A No. 12 RW90 CONDUCTOR (GREEN). THE CONTRACTOR SHALL SUPPLY A PIGTAIL SPLICE WITH A RING LUG TERMINAL FOR THE BOND STUD.
14. THE BONDING STUD IN EACH POLE SHALL COMPRISE OF ONE 3/8–16 BOLT 2.0 INCHES LONG, ONE SPLIT LOCK WASHER, AND TWO HEX NUTS. THE SPLIT LOCK–WASHER SHALL BE SLID ONTO THE BOLT ON THE INSIDE OF THE POLE, AND HELD TIGHTLY IN PLACE WITH THE FIRST NUT. THIS NUT SHALL BE TIGHTENED TO SPECIFICATION. THE RING TERMINAL SHALL BE SANDWICHED BETWEEN THE TWO HEX NUTS. THE LAST NUT HOLDS THE RING TERMINAL IN PLACE. THIS NUT SHALL BE TIGHTENED TO SPECIFICATIONS. THE POLE MANUFACTURER/CONTRACTOR SHALL ENSURE THE AREA AROUND THE BONDING NUT ON THE INSIDE OF THE POLE IS PAINT FREE TO OBTAIN A SOLID MECHANICAL AND ELECTRICAL BONDING CONNECTION. THE INTERIOR PAINTED SURFACE SURROUNDING THE BOND STUD OPENING SHALL BE GROUND OFF TO BARE STEEL FOR ELECTRICAL BOND ADHERENCE. THE BOND STUD SHALL BE INSTALLED IMMEDIATELY AFTER GRINDING.
15. ALL POLES SHALL BE BONDED WITH A No. 8 RW90 CONDUCTOR (GREEN). THE CONTRACTOR SHALL SUPPLY A PIGTAIL SPLICE WITH A RING LUG TERMINAL FOR THE BOND STUD.
16. ALL JUNCTION BOX AND IN–POLE SPLICES, USING 3 OR MORE CONDUCTORS IN ONE SPLICE, SHALL USE SPLIT BOLTS. ALL JUNCTION BOX AND IN–POLE SPLICES SHALL BE SEALED WITH TAPE CONSISTING OF BISHOP BI–SEAL, PHILLIPS ROTUNDRA, OR 3M SELF–HOLDING TAPE, COVERED WITH PVC TAPE AND DIPPED IN 3M SCOTCHCOAT (OR APPROVED EQUIVALENT).
17. EMPTY CONDUITS / CONDUITS ONLY (CO) SHALL BE PROVIDED WITH A NYLON PULL LINE, AND EACH END SHALL BE CAPPED.
18. STANDING WATER IS NOT PERMITTED IN CONDUITS. CONDUITS WITH WATER SHALL BE BLOWN CLEAR OF WATER.

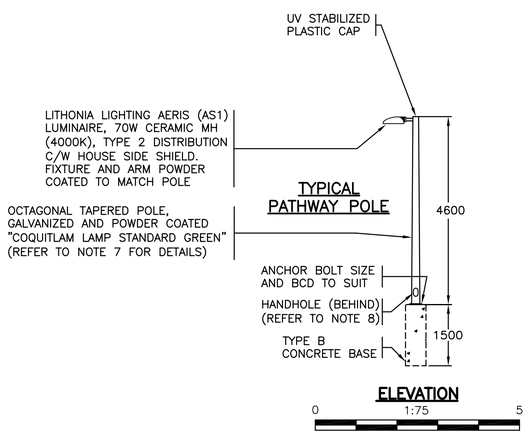
LUMINAIRE FIXTURES:

1. DAVIT LUMINAIRE SHALL BE COBRA–TYPE FIXTURES C/W FLAT LENSES AND CLEAR HPS. LAMP WATTAGES SHALL BE 150W H.P.S.
2. POST–TOP LUMINAIRE SHALL BE AMERICAN ELECTRIC TWISTPACK REFRACTOR (TWT–CA–R2), C/W 28–INCH HOOD, POLYCARBONATE REFRACTOR AND HOUSE SIDE SHIELD. LAMP WATTAGES SHALL BE 100W H.P.S.
3. ALL LUMINAIRES SHALL BE PROVIDED WITH LAMP WATTAGE LABELS (BLACK LETTERING ON YELLOW BACKGROUND FOR HPS LAMPS), 10 = 100, 15 = 150, 25 = 250, ETC.
4. REFER TO ELEVATION ON THIS SHEET FOR PATHWAY LUMINAIRE SPECIFICATIONS.

IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS.
CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**



SERVICE LOAD ON PRINCETON AVENUE

ITEM	No. OF LIGHT	WATTAGE (W)	CURRENT (A)
SERVICE SIZE	40A – 120/240V		
LOAD (CCT. R)	1	100W	1.18A
LOAD (CCT. R)	5	150W	8.35A
LOAD (CCT. B)	6	150W	10.0A
ADDED LOAD (CCT. R)	1	150W	1.67A
TOTAL LOAD (CCT. R)	1	100W	1.18A
TOTAL LOAD (CCT. R)	6	150W	10.0A
TOTAL LOAD (CCT. B)	6	150W	10.0A
VOLTAGE DROP (%)	2.96%		

SERVICE LOAD ON GALLOWAY AVENUE

ITEM	No. OF LIGHT	WATTAGE (W)	CURRENT (A)
SERVICE SIZE	40A – 120/240V		
LOAD (CCT. R)	8	100W	9.44A
LOAD (CCT. B)	9	100W	10.62A
LOAD (CCT. R)	3	70W	2.34A
LOAD (CCT. B)	2	70W	1.56A
ADDED LOAD (CCT. R)	1	100W	1.18A
ADDED LOAD (CCT. B)	1	100W	1.18A
ADDED LOAD (CCT. B)	1	70W	0.78A
TOTAL LOAD (CCT. R)	9	100W	10.62A
TOTAL LOAD (CCT. B)	10	100W	11.80A
TOTAL LOAD (CCT. R)	3	70W	2.34A
TOTAL LOAD (CCT. B)	3	70W	2.34A
VOLTAGE DROP (%)	2.52%		

ILLUMINANCE DESIGN CRITERIA

ITEM	DESIGN REQUIREMENTS	DESIGN ACHIEVED
STREET NAME(S)	PRINCETON AVENUE	
PEDESTRIAN ACTIVITY	LOW	
ROAD CLASSIFICATION	COLLECTOR	
ILLUMINATION TYPE	7.5m DAVIT 150W HPS TYPE 3 DIST.	
SPACING (MAX)	45.0m STAGGERED	
ILLUMINANCE LEVEL (AVG.)	6.0 LUX	8.7 LUX
ILLUMINANCE UNIFORMITY RATIO (AVG.:MIN.)	4.0:1	3.6:1
VEILING LUMINANCE RATIO (VLMAX.:AVG.)	0.4:1	0.3:1

ILLUMINANCE DESIGN CRITERIA

ITEM	DESIGN REQUIREMENTS	DESIGN ACHIEVED
STREET NAME	SHEFFIELD AVENUE (WEST OF PRINCETON AVE.)	
PEDESTRIAN ACTIVITY	LOW	
ROAD CLASSIFICATION	LOCAL	
ILLUMINATION TYPE	6.0m POST–TOP 100W HPS TYPE 2 DIST.	
SPACING (MAX)	44.0m ONE SIDED	
ILLUMINANCE LEVEL (AVG.)	4.0 LUX	4.0 LUX
ILLUMINANCE UNIFORMITY RATIO (AVG.:MIN.)	6.0:1	1.7:1

ILLUMINANCE DESIGN CRITERIA

ITEM	DESIGN REQUIREMENTS	DESIGN ACHIEVED
STREET NAME	SHEFFIELD AVENUE (EAST OF PRINCETON AVE.)	
PEDESTRIAN ACTIVITY	LOW	
ROAD CLASSIFICATION	COLLECTOR	
ILLUMINATION TYPE	7.5m DAVIT 150W HPS TYPE 2 DIST.	
SPACING (MAX)	45.5m STAGGERED	
ILLUMINANCE LEVEL (AVG.)	6.0 LUX	9.9 LUX
ILLUMINANCE UNIFORMITY RATIO (AVG.:MIN.)	4.0:1	3.8:1
VEILING LUMINANCE RATIO (VLMAX.:AVG.)	0.4:1	0.3:1

ILLUMINANCE DESIGN CRITERIA

ITEM	DESIGN REQUIREMENTS	DESIGN ACHIEVED
STREET NAME	CHANDLER STREET	
PEDESTRIAN ACTIVITY	LOW	
ROAD CLASSIFICATION	LOCAL	
ILLUMINATION TYPE	6.0m POST–TOP 100W HPS TYPE 2 DIST.	
SPACING (MAX)	44.0m STAGGERED	
ILLUMINANCE LEVEL (AVG.)	4.0 LUX	4.0 LUX
ILLUMINANCE UNIFORMITY RATIO (AVG.:MIN.)	6.0:1	1.7:1

ILLUMINANCE DESIGN CRITERIA

ITEM	DESIGN REQUIREMENTS	DESIGN ACHIEVED
STREET NAME	HIGHLAND DRIVE	
PEDESTRIAN ACTIVITY	LOW	
ROAD CLASSIFICATION	LOCAL	
ILLUMINATION TYPE	6.0m POST–TOP 100W HPS TYPE 2 DIST.	
SPACING (MAX)	44.0m STAGGERED	
ILLUMINANCE LEVEL (AVG.)	4.0 LUX	4.0 LUX
ILLUMINANCE UNIFORMITY RATIO (AVG.:MIN.)	6.0:1	1.7:1

ILLUMINANCE DESIGN CRITERIA

ITEM	DESIGN REQUIREMENTS	DESIGN ACHIEVED
STREET NAME	GALLOWAY AVENUE	
PEDESTRIAN ACTIVITY	LOW	
ROAD CLASSIFICATION	LOCAL	
ILLUMINATION TYPE	6.0m POST–TOP 100W HPS TYPE 2 DIST.	
SPACING (MAX)	44.0m STAGGERED	
ILLUMINANCE LEVEL (AVG.)	4.0 LUX	4.0 LUX
ILLUMINANCE UNIFORMITY RATIO (AVG.:MIN.)	6.0:1	1.7:1

DMD & Associates Ltd.
#12–17358 104A Avenue
Surrey, BC, Canada V4N 5M3
www.dmdeng.com 604/589–9010
office@dmdeng.com Fax 604/589–9012

DESIGNED	DON SAMSON
DRAWN	BOB KELLIE
CHECKED	DANIEL J. WONG
DATE	2012–06–12
SCALE:	N/A
SEAL	

COQ. REC. DWG. No.
E1162–01

No.	DATE	BY	CHK'D	REVISION
.	2012–06–20	DIS	DJW	ISSUED FOR REVIEW
.	2012–07–26	DIS	DJW	ISSUED FOR TENDER
1	2012–09–10	DIS	DJW	REVISED AS PER CITY COMMENTS & NEW GEOMETRICS
2	2012–10–17	DIS	DJW	ISSUED FOR CONSTRUCTION
3	2014–02–20	AM	DJW	RECORD DRAWING

DRAWING REFERENCE

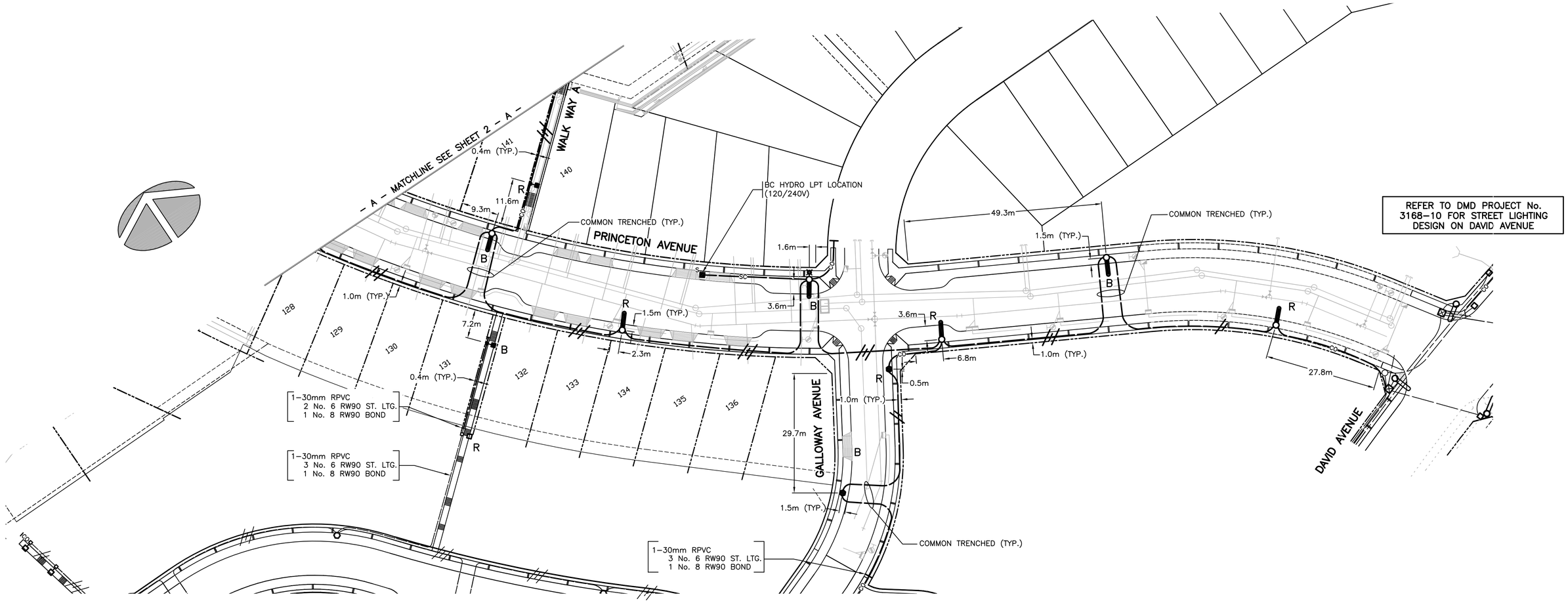
Wesbild
Suite 2650 Park Place 666 Burrard St Vancouver, BC V6C 2X8 PH: 604–694–0502

STREET LIGHTING
SMILING CREEK NEIGHBOURHOOD
ROAD SC4–B, SC4–C, PRINCETON AVENUE, HIGHLAND DRIVE & GALLOWAY AVENUE
COQUITLAM, B.C.

PROJECT No.	SHEET No.	REVISION
3831–12–01 of 03	1 of 3	3

DMD (2009)

CANCEL PRINTS BEARING PREVIOUS LETTER



REFER TO DMD PROJECT No. 3343–11 FOR STREET LIGHTING DESIGN ON GALLOWAY AVENUE

REFER TO DMD PROJECT No. 3168–10 FOR STREET LIGHTING DESIGN ON DAVID AVENUE

SITE PLAN

0 1:500 25

IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

REFER TO E1162-01 FOR LEGEND AND NOTES

COQ. REC. DWG. No.
E1162–03

DMD & Associates Ltd.
#12–17358 104A Avenue
Surrey, BC, Canada V4N 5M3
www.dmdeng.com 604/589–9010
office@dmdeng.com Fax 604/589–9012

DESIGNED	DON SAMSON
DRAWN	BOB KELLIE
CHECKED	DANIEL J. WONG
DATE	2012–06–12

SCALE: AS SHOWN

SEAL

No.	DATE	BY	CHK'D	REVISION
.	2012–06–20	DIS	DJW	ISSUED FOR REVIEW
.	2012–07–26	DIS	DJW	ISSUED FOR TENDER
1	2012–09–10	DIS	DJW	REVISED AS PER CITY COMMENTS & NEW GEOMETRICS
2	2012–10–17	DIS	DJW	REVISED FOR NEW GEOMETRICS, ISSUED FOR CONSTRUCTION
3	2014–02–20	AM	DJW	RECORD DRAWING

DRAWING REFERENCE

Wesbild
Suite 2650 Park Place 666 Burrard St Vancouver, BC V6C 2X8 PH: 604–694–0502

STREET LIGHTING SMILING CREEK NEIGHBOURHOOD ROAD SC4–B, SC4–C, PRINCETON AVENUE, HIGHLAND DRIVE & GALLOWAY AVENUE

COQUITLAM, B.C.

PROJECT No.	SHEET No.	REVISION
3831–12–03 of 03	3 of 3	3

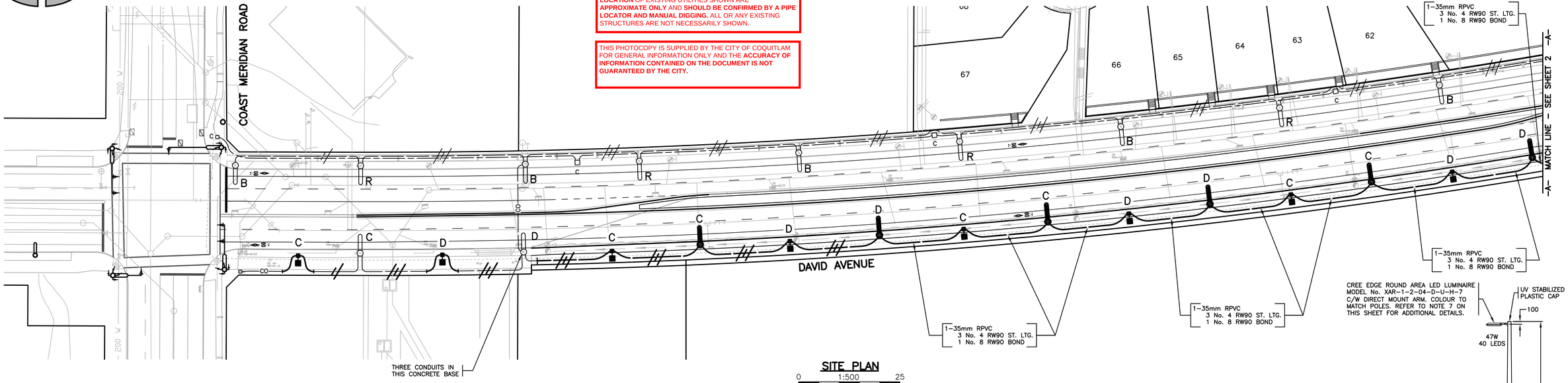
DMD (2009)

CANCEL PRINTS BEARING PREVIOUS LETTER

IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

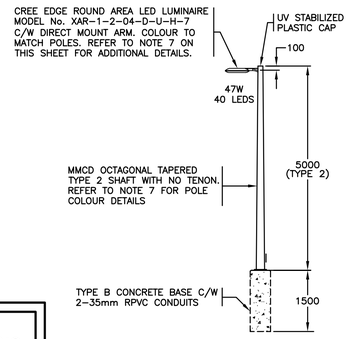
NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**



SITE PLAN

0 1:500 25



TYPICAL PATHWAY POLE

ELEVATION

0 1:75 5

STREET LIGHTING AND COMMUNICATIONS NOTES

1. UNLESS OTHERWISE INDICATED, ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MMCD (CURRENT ISSUE) AND THAT OF THE CITY OF COQUITLAM CURRENT SUBDIVISION CONTROL BYLAW AND MUST PASS THEIR INSPECTIONS. PLEASE CONTACT THE PROJECT COORDINATOR 72 HOURS PRIOR TO COMMENCING CONSTRUCTION.
2. CHECK BEFORE YOU DIG. THE CONTRACTOR SHALL REFER TO CIVIL 'AS–BUILT' DRAWINGS FOR ALL UTILITIES, SERVICE LOCATIONS AND DETAILS. THE EXACT LOCATION OF THESE UTILITIES SHALL BE DETERMINED ON SITE.
3. PRIOR TO STREET LIGHT BASE INSTALLATIONS, THE CONTRACTOR SHALL ENSURE THAT ALL STREET LIGHT POLES AND FIXTURES SHALL BE A MINIMUM OF 3.0m CLEAR OF ALL HYDRO POLES AND OVERHEAD PRIMARY WIRES, AND 1.0m CLEAR OF ALL OVERHEAD SECONDARY WIRES.
4. THE CONTRACTOR SHALL NOTIFY PROVINCIAL AND MUNICIPAL INSPECTORS 24 HOURS PRIOR TO COMMENCEMENT OF UNDER GROUND AND ELECTRICAL WORK.
5. THE CONTRACTOR SHALL OBTAIN ALL EQUIPMENT APPROVAL PERMITS FROM THE ELECTRICAL SAFETY BRANCH. THE ELECTRICAL SAFETY BRANCH SHALL BE MADE AWARE OF THE (POSSIBLE) USE OF AN IRRIGATION SYSTEM WITHIN THE STREET LIGHT POLES.
6. MINIMUM DEPTH FOR UNDER GROUND DUCTING SHALL BE 600mm BELOW BOULEVARD AND SIDEWALKS, AND 900mm BENEATH ASPHALT, AND AS PER COQUITLAM STANDARD DRAWING E–5.
7. ALL ROADWAY POLES, SIGNAL POLES, ARMS, SERVICE BASES, ETC., ARE TO BE GALVANIZED, PRIMED AND POWDER–COATED IN COLOUR EQUIVALENT TO COQUITLAM LAMP STANDARD GREEN. GENERAL PAINT #16–214 B1Y12F36 EXTERIOR UV STABILIZED INDUSTRIAL ENAMEL, OR WEST COAST ENGINEERING GREEN FERN COQUITLAM PWD P5399–9.
8. ALL POLE HAND HOLE ACCESS SHALL UTILIZE WEST COAST ENGINEERING BULLDOG COVERS, RE–ENFORCED BACKING BARS AND PROVIDED WITH ROUND HOOKEY PUCK STYLE LOCKS. IF NOVA POLES SUPPLIED, USE THESE ITEMS: NOVA HAND HOLE COVER (FINISHED IN SAME COLOUR AS POLE) P/N: SMALL OPENING – USE P20–CS4X7–S01; LARGE OPENING – USE P20–CS4X7–L01. NOVA BACKING BAR P/N: P04–01–CS–L01. NOVA SECURITY BOLT P/N: H11–SB–A0.375L (STAINLESS STEEL, 3/8–16 x 3 INCHES, LEFT HAND THREAD.) BULLDOG LOCK KEYS AND/OR NOVA BOLT TOOLS TO BE SUPPLIED TO COQUITLAM TRAFFIC OPERATIONS.
9. LUMINAIRES ON BLACK PHASE CONDUCTOR ARE IDENTIFIED WITH A 'B OR D' DESIGNATION NEXT TO THE PROPOSED / EXISTING LUMINAIRES.
10. LUMINAIRES ON RED PHASE CONDUCTOR ARE IDENTIFIED WITH A 'R OR C' DESIGNATION NEXT TO THE PROPOSED / EXISTING LUMINAIRES.
11. EACH LUMINAIRE SHALL BE WIRED WITH No. 12 RW90. BLACK AND WHITE FOR 120V SERVICE, BLACK AND RED FOR 240V SERVICE.
12. EACH PEDESTRIAN / STREET LIGHT LUMINAIRE SHALL BE PROVIDED WITH A TRON HEB–AA WATER–RESISTANT FUSE HOLDER, C/W 2 TYPE 'L' INSULATING BOOTS. OR APPROVED EQUIVALENT. EACH FUSE HOLDER SHALL BE PROVIDED WITH ONE 10–A BUSS KTK–TYPE FUSE, WIRED IN LIVE CONDUCTOR(S). FOR 240V SERVICES, ONE FUSE SHALL BE IN EACH LIVE CONDUCTOR. THE FUSE HOLDER(S) SHALL BE ACCESSIBLE FROM THE HAND HOLE ACCESS AT THE POLE BASES.
13. ALL LUMINAIRES SHALL BE BONDED WITH A No. 12 RW90 CONDUCTOR (GREEN). THE CONTRACTOR SHALL SUPPLY A PIGTAIL SPLICE WITH A RING LUG TERMINAL FOR THE BOND STUD.
14. THE BONDING STUD IN EACH POLE SHALL COMPRISE OF ONE 3/8–16 BOLT 2.0 INCHES LONG, ONE SPLIT LOCK–WASHER, AND TWO HEX NUTS. THE SPLIT LOCK–WASHER SHALL BE SLID ONTO THE BOLT ON THE INSIDE OF THE POLE, AND HELD TIGHTLY IN PLACE WITH THE FIRST NUT. THIS NUT SHALL BE TIGHTENED TO SPECIFICATION. THE RING TERMINAL SHALL BE SANDWICHED BETWEEN THE TWO HEX NUTS. THE LAST NUT HOLDS THE RING TERMINAL IN PLACE. THIS NUT SHALL BE TIGHTENED TO SPECIFICATIONS. THE POLE MANUFACTURER/CONTRACTOR SHALL ENSURE THE AREA AROUND THE BONDING NUT ON THE INSIDE OF THE POLE IS PAINT FREE TO OBTAIN A SOLID MECHANICAL AND ELECTRICAL BONDING CONNECTION. THE INTERIOR PAINTED SURFACE SURROUNDING THE BOND STUD OPENING SHALL BE GROUND OFF TO BARE STEEL FOR ELECTRICAL BOND ADHERENCE. THE BOND STUD SHALL BE INSTALLED IMMEDIATELY AFTER GRINDING.
15. ALL POLES SHALL BE BONDED WITH A No. 8 RW90 CONDUCTOR (GREEN). THE CONTRACTOR SHALL SUPPLY A PIGTAIL SPLICE WITH A RING LUG TERMINAL FOR THE BOND STUD.
16. ALL JUNCTION BOX AND IN–POLE SPLICES SHALL BE SEALED WITH TAPE CONSISTING OF BISHOP BI–SEAL, PHILLIPS ROTUNDRA OR 3M SELF–HOLDING TAPE; COVERED WITH PVC TAPE AND DIPPED IN 3M SCOTCHCOAT (OR APPROVED ALTERNATE).
17. HYDRO SERVICE (DIP) CONNECTIONS SHALL BE PER MMCD OR PER BC HYDRO STANDARDS.
18. EMPTY CONDUITS / CONDUITS ONLY (CO) SHALL BE PROVIDED WITH A NYLON PULL LINE, AND EACH END SHALL BE CAPPED.
19. STANDING WATER IS NOT PERMITTED IN CONDUITS. CONDUITS WITH WATER SHALL BE BLOWN CLEAR OF WATER. AFTER BLOWING OUT WATER, CAP EACH CONDUIT END WITH DUCT SEAL.
20. ALL EXISTING JUNCTION BOXES WITH STEEL LIDS SHALL BE BONDED.
21. POLE SYMBOLS ARE NOT TO SCALE.
22. ALL CONDUCTORS SHALL STRANDED COPPER, TYPE RW90 INSULATED, COLOUR CODED AS INDICATED.
23. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM THE ADEQUACY OF THE EXISTING STREET LIGHT CONDUIT AND CONDUCTORS AND MAKE ALL NECESSARY REPAIRS TO ADEQUATELY COMPLETE ALL CONNECTIONS INTO THE EXISTING STREET LIGHT SYSTEM.
24. CONTRACTOR SHALL LOCATE COMMUNICATIONS CONDUITS IN SUCH A WAY TO MINIMIZE CONDUIT BENDING AROUND EXISTING INFRASTRUCTURE AND COLUMNS.
25. ALL COMMUNICATIONS CONDUITS SHALL BE BLOWN CLEAN WITH COMPRESSED AIR. THIS PROCESS SHALL BE FOLLOWED BY PULLING THROUGH A RUBBER MANDREL; A CLEAN SOFT CLOTH AND NEW POLYPROPYLENE PULL STRING WITH A MINIMUM TENSILE STRENGTH OF 1.1 kN.
26. ALL GROUND PLATES AND GROUND PLATE CONDUCTORS ARE TO HAVE A MINIMUM OF 5 METERS CLEARANCE BETWEEN THEM.
27. CONCRETE VAULTS AND JUNCTION BOXES LOCATED IN NON–PAVED OR NON–SIDEWALK AREAS ARE TO BE PROTECTED FROM MOWER OR EROSION/VEGETATION DAMAGE WITH A 200mm WIDE x 150mm DEEP CONCRETE COLLAR FLUSH WITH TOP EDGES OF THE TOP OF THE BOX LID. COLLAR TO SLOPE DOWN AWAY FROM BOX OPENING AT 3% TO DIRECT WATER AWAY FROM BOX OPENING.
28. JUNCTION BOXES IN SIDEWALK AREAS SHALL BE SUPPORTED BY CONCRETE MATERIALS ON ALL SIDES WITH A 200mm WIDE x 150mm DEEP CONCRETE COLLAR FLUSH WITH TOP OF SIDEWALK AND THE TOP OF THE BOX LID.
29. JUNCTION BOXES FOR ELECTRICAL APPLICATIONS (TRAFFIC SIGNALS, STREET LIGHTING, ETC.) – THE LIDS SHOULD BE ETCHED ELEC, JUNCTION BOXES FOR COMMUNICATIONS – THE LIDS SHOULD BE ETCHED COMM, ALL UPPERCASE LETTERS.
30. SYNERTEC 24 x 36 x 36 PULL BOXES SHALL BE INSTALLED AS SHOWN ON STANDARD DETAIL MMCD DRAWING E2.3 C/W BOLT 2 PIECE DOWN LIDS. REPLACE 150mm FINE DRAIN ROCK WITH 300mm FINE DRAIN ROCK.
31. ALL JUNCTION BOXES SHALL BE 2 SECTIONS DEEP. BOTTOM OF JUNCTION BOXES SHALL BE OPEN. BOTTOM SECTIONS SHALL BE SUPPORTED WITH CONCRETE BRICKS AND USE CRUSHED GRAVEL TO DRAIN WATER.
32. ALL BOLT DOWN JUNCTION BOX LIDS SHALL BE TIER 15 (20K) RATED.

LUMINAIRE FIXTURES

1. ROADWAY DAVIT LUMINAIRES SHALL BE COBRA–TYPE FIXTURES C/W FLAT LENSES AND CLEAR HPS. LAMP WATTAGES SHALL BE 150W HPS. DECORATIVE MULTI–USE PATHWAY LUMINAIRES SHALL BE CREE EDGE ROUND AREA LED LUMINAIRE SERIES C/W TYPE 2 MEDIUM DISTRIBUTION.
2. ALL ROADWAY HID LUMINAIRES SHALL BE PROVIDED WITH LAMP WATTAGE LABELS (BLACK LETTERING ON YELLOW BACKGROUND), 10 = 100, 15 = 150, 25 = 250, ETC.
3. ALL PATHWAY LED LUMINAIRES SHALL BE PROVIDED WITH LAMP WATTAGE LABELS (BLACK LETTERING ON WHITE BACKGROUND) TO NEMA STANDARDS.

LEGEND

- DAVIT STREETLIGHT POLE (9.0m – 150W HPS TYPE 2 MC DISTRIBUTION, FLAT GLASS) ON A TYPE C CONCRETE BASE UNLESS OTHERWISE NOTED
- POST TOP STREETLIGHT POLE (5.1m – 100W HPS TYPE 2 DISTRIBUTION, TWISTPAK) C/W PHOTOCELL AND A 40A STREET LIGHTING SERVICE PANEL IN A 0.9m SERVICE BASE ON A TYPE C3 CONCRETE BASE.
- DAVIT STREETLIGHT POLE (8.1m – 150W HPS TYPE 2 MC DISTRIBUTION, FLAT GLASS) C/W PHOTCELL AND A 40A STREET LIGHTING SERVICE PANEL IN A 0.9m HIGH SERVICE BASE ON A TYPE C1 CONCRETE BASE
- DAVIT STREETLIGHT POLE (9.0m – 150W HPS TYPE 2 MC DISTRIBUTION, FLAT GLASS) ON A TYPE C CONCRETE BASE
- FUTURE DAVIT STREETLIGHT POLE
- PATHWAY POLE (5.0m – 47W 40 LEDS C/W TYPE 2 MEDIUM DISTRIBUTION) ON A TYPE B CONCRETE BASE
- CV — SMALL CONCRETE VAULT C/W BONDED DOUBLE DOOR GALVANIZED STEEL LID LABELED "ELEC"
- JB — POLYMER JUNCTION BOX (SYNERTECH 24 x 36 x 36, OPEN BOTTOM) 2 SECTIONS DEEP C/W LID LABELED "ELEC"
- 37 — POLYMER JUNCTION BOX (SYNERTECH 11 x 18 x 24, OPEN BOTTOM) 2 SECTIONS DEEP C/W LID LABELED "ELEC"
- C — POLYMER JUNCTION BOX (SYNERTECH 24 x 36 x 36, OPEN BOTTOM) 2 SECTIONS DEEP C/W LID LABELED "COMM"
- CV — SMALL CONCRETE VAULT C/W DOUBLE DOOR STEEL LID LABELED "ELEC"
- JB — JUNCTION BOX C/W LID LABELED "ELEC"
- C — JUNCTION BOX C/W LID LABELED "COMM"
- R/C — LUMINAIRE ON RED PHASE CONDUCTOR
- B/D — LUMINAIRE ON BLACK PHASE CONDUCTOR
- 3 No. 6 RW90 ST. LTG. & 1 No. 8 RW90 BOND IN 35mm RPVC
- 2 No. 6 RW90 ST. LTG. & 1 No. 8 RW90 BOND IN 35mm RPVC
- 3 No. 6 RW90 ST. LTG. & 1 No. 8 RW90 BOND IN 35mm RPVC
- 2 No. 6 RW90 ST. LTG. & 1 No. 8 RW90 BOND IN 35mm RPVC
- 3 No. 6 RW90 ST. LTG. & 1 No. 8 RW90 BOND IN 35mm RPVC
- 2 No. 6 RW90 ST. LTG. & 1 No. 8 RW90 BOND IN 35mm RPVC
- 4–78mm RPVC COMMUNICATIONS CONDUITS
- 4–78mm RPVC COMMUNICATIONS CONDUITS
- CO — 35mm RPVC CONDUIT ONLY
- CO — 35mm RPVC CONDUIT ONLY
- SC — 53mm RPVC SERVICE CONDUIT C/W 3 No. 6 RW90 FEEDERS
- 35mm RPVC STUB OUT FOR FUTURE EXTENSION (CAPPED & LOCATION MARKED)

DISCLAIMER:
INFORMATION SHOWN ON THIS RECORD DRAWING WAS PROVIDED BY THE ELECTRICAL CONTRACTOR. DMD & ASSOCIATES TAKE NO RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS OF THE AS BUILT INFORMATION PROVIDED TO US.

120V SERVICE LOAD AT SOBALL STREET AND DAVID AVENUE INTERSECTION

(100A – 120/240V SERVICE PANEL)

WATTAGE (W)	CCT. PHASE	EXISTING	REMOVED	NEW	TOTAL No. OF LIGHTS	CURRENT (A)
150W (HPS)	R	10	0	0	10	16.7A
	B	10	0	0	10	16.7A
150W (HPS)	C	0	0	7	7	11.7A
	D	0	0	6	6	10.02A
47W (LED)	C	0	0	6	6	2.4A
	D	0	0	6	6	2.4A
2.95% VOLTAGE DROP (CCTS. C & D)						

ILLUMINANCE DESIGN CRITERIA

ITEM	DESIGN REQUIREMENTS	DESIGN ACHIEVED
STREET NAME(S)	DAVID AVENUE (COAST MERIDIAN RD TO SOBALL ST)	
PEDESTRIAN CONFLICT	MEDIUM	
ROAD CLASSIFICATION	ARTERIAL	
ILLUMINATION TYPE	150W HPS (9.0m DAVIT POLE)	
SPACING (MAX)	22m STAGGERED	
ILLUMINANCE LEVEL (AVG.)	13 LUX	13.1 LUX
ILLUMINANCE UNIFORMITY RATIO (AVG.:MIN.)	3.0:1	2.5:1
VEILING LUMINANCE RATIO (VLMAX.:AVG.)	0.3:1	0.2:1

COQ. REC. DWG. No.
E1246-01

No.	DATE	BY	CHK'D	REVISION
.	2014–07–03	AM	NB	ISSUED FOR REVIEW
.	2015–02–19	RF	NB	ISSUED FOR TENDER
.	2016–06–20	AM	NB	RECORD DRAWING

DRAWING REFERENCE

DELCAN CORPORATION
Suite 2300 – 4710 Kingsway, Metrotower 1, Burnaby, B.C. V5H 4M2

STREET LIGHTING
DAVID AVENUE FROM
COAST MERIDIAN ROAD TO PRINCETON AVENUE
COQUITLAM, BC

PROJECT No.	SHEET No.	REVISION
4260–14–01 of 04	1 of 4	.

DMD & Associates Ltd.
#12–17358 104A Avenue
Surrey, BC, Canada V4N 5M3
www.dmdeng.com 604/589–9010
office@dmdeng.com Fax 604/589–9012

DESIGNED	MICAH de GOUVEIA
DRAWN	ARVIND MUTTI
CHECKED	NEIL BRIGHT
DATE	MAY 16, 2014
SCALE:	1:500

SEAL

DMD (2009)

CANCEL PRINTS BEARING PREVIOUS LETTER

REFER TO E1247-01TS FOR ENLARGEMENT
REFER TO E1247-02TS FOR ELEVATIONS AND DETAILS

1–35mm R.PVC
3 No. 6 RW90 ST. LTG. (CCTS. R/B)
3 No. 4 RW90 ST. LTG. (CCTS. C/D)
1 No. 8 RW90 BOND

100A SERVICE PANEL PER WIRING DIAGRAM

1–35mm RPVC
3 No. 4 RW90 ST. LTG.
1 No. 8 RW90 BOND

1–53mm RPVC SERVICE CONDUIT
3 No. 3 SERVICE CONDUCTORS

SOBALL STREET

MATCH LINE – SEE SHEET 1

KINGSTON STREET

1–35mm RPVC (EMPTY)

DAVID AVENUE

MATCH LINE – SEE BELOW

4–78mm RPVC (EMPTY)
1–53mm RPVC (EMPTY)

1–35mm RPVC
3 No. 6 RW90 ST. LTG.
1 No. 8 RW90 BOND

SITE PLAN
0 1:500 25

2–25mm RPVC (STUB–OUTS)

100A STREET LIGHTING/FUTURE TRAFFIC SIGNAL/FUTURE FIRE SIGNAL SERVICE PANEL MOUNTED IN A 0.9m HIGH SERVICE BASE C/W SOLID TOP ON A MODIFIED TYPE 'C3' CONCRETE BASE (900mm DEEP).

PRINCETON AVENUE

TYPE P44 CONCRETE CONTROLLER BASE

9.0m–150W DAVIT STREET POLE ON TYPE S2 CONCRETE BASE C/W BOLT SQUARE ADAPTOR PLATE

0.4m FROM BACK OF SIDEWALK

BC HYDRO LPT LOCATION (120/240V)

3–78mm RPVC (EMPTY)

1–53mm RPVC
3 No. 6 RW90 ST. LTG.
3 No.14 RW90 PEC
1 No. 8 RW90 BOND

PLEASE SEE E1246-03 TO 05TS FOR FIRE SIGNAL DETAILS

BC HYDRO SERVICE BOX LOCATION (120/240V)

MATCH LINE – SEE ABOVE

DAVID AVENUE

RILEY STREET

1–35mm RPVC
3 No. 6 RW90 ST. LTG
1 No. 8 RW90 BOND

TYPE L POLE C/W 0.25L EXTENSION, TYPE 2 FLANGE COVER PLATE, 2A ARM AND 150W LUMINAIRE (FLAT GLASS) ON TYPE L2 CONCRETE BASE.

1–53mm RPVC (EMPTY)

2–78mm RPVC (1 EMPTY)
2 No. 6 RW90 ST. LTG.
1 No. 8 RW90 BOND
(FROM JB TO POLE)

TYPE L POLE C/W 0.25L EXTENSION, TYPE 2 FLANGE COVER PLATE, 2A ARM AND 150W LUMINAIRE (FLAT GLASS) ON TYPE L2 CONCRETE BASE. CONCRETE BASE IS C/W 2–53mm RPVC CONDUITS

9.0m–150W DAVIT STREET POLE ON TYPE L2 CONCRETE BASE C/W BOLT SQUARE ADAPTOR PLATE

1–78mm RPVC
3 No. 6 RW90 ST. LTG.
1 No. 8 RW90 BOND

2–78mm RPVC
(EMPTY)

1–78mm R.PVC
2 No. 6 RW90 ST. LTG.
1 No. 8 RW90 BOND
(FROM JB TO POLE)

1–78mm RPVC
3 No. 6 RW90 ST. LTG.
1 No. 8 RW90 BOND

2–78mm RPVC
(EMPTY)

1–78mm RPVC COMM.
(EMPTY)

PLEASE SEE E1246-03 TO 05TS FOR DETAILS

1–78mm R.PVC
2 No. 6 RW90 ST. LTG.
1 No. 8 RW90 BOND
(FROM JB TO POLE)

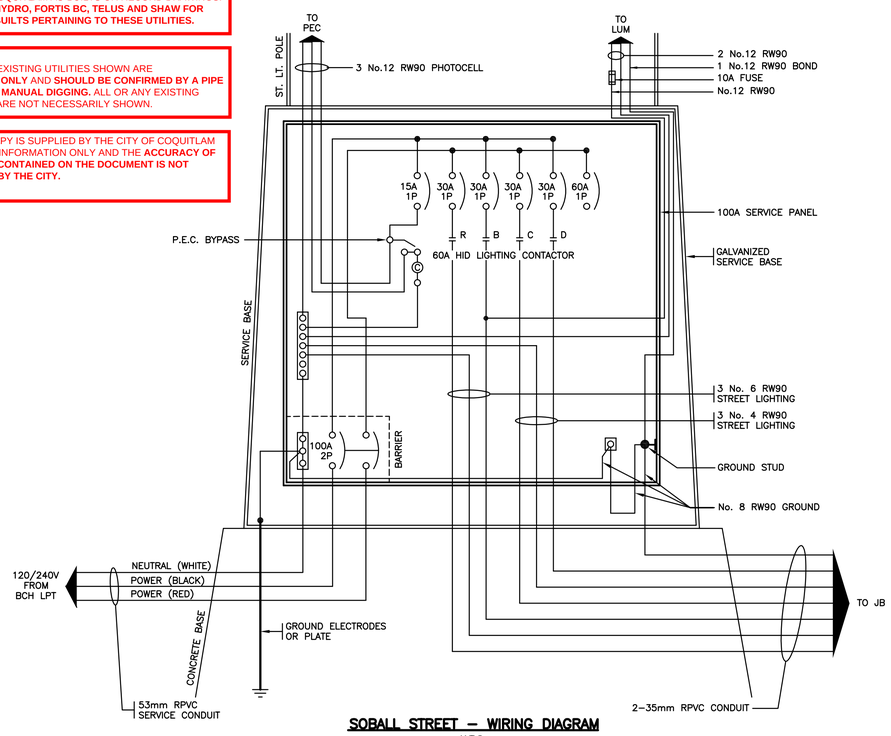
SITE PLAN
0 1:500 25

REFER TO SHEET 1 FOR LEGEND AND NOTES

IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**



SOBALL STREET – WIRING DIAGRAM
N.T.S.

ILLUMINANCE DESIGN CRITERIA

ITEM	DESIGN REQUIREMENTS	DESIGN ACHIEVED
STREET NAME(S)	DAVID AVENUE (SOBALL ST TO PRINCETON AVE)	
PEDESTRIAN CONFLICT AREA	MEDIUM	
ROAD CLASSIFICATION	ARTERIAL	
ILLUMINATION TYPE	9.0m DAVIT POLE 150W HPS TYPE 2	
SPACING (MAX)	31.0m STAGGERED	
ILLUMINANCE LEVEL (AVG.)	13.0 LUX	13.1 LUX
ILLUMINANCE UNIFORMITY RATIO (AVG.:MIN.)	3.0:1	1.9:1
VEILING LUMINANCE RATIO (VLMAX.:AVG.)	0.3:1	0.2:1

120V SERVICE LOAD AT RILEY STREET AND DAVID AVENUE INTERSECTION

(40A – 120/240V SERVICE PANEL)

WATTAGE (W)	CCT. PHASE	EXISTING	REMOVED	NEW	TOTAL No. OF LIGHTS	CURRENT (A)
150W (HPS)	R	2	0	3	5	8.35A
	B	2	0	2	4	6.68A
100W (HPS)	R	5	0	0	5	5.90A
	B	6	0	0	6	7.08A
45W (LED)	R	0	0	3	3	1.2A
	B	0	0	2	2	0.8A
WORST CASE – 2.22% VOLTAGE DROP (TO THE SOUTH ON RILEY STREET)						

120V SERVICE LOAD AT PRINCETON AVENUE AND DAVID AVENUE INTERSECTION

(100A – 120/240V SERVICE PANEL)

WATTAGE (W)	CCT. PHASE	EXISTING	REMOVED	NEW	TOTAL No. OF LIGHTS	CURRENT (A)
150W (HPS)	R	2	0	4	6	10.02A
	B	2	0	3	5	8.35A
45W (LED)	R	0	0	2	2	0.8A
	B	0	0	2	2	0.8A
1.30% VOLTAGE DROP						

DISCLAIMER:
INFORMATION SHOWN ON THIS RECORD DRAWING WAS PROVIDED BY THE ELECTRICAL CONTRACTOR. DMD & ASSOCIATES TAKE NO RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS OF THE AS BUILT INFORMATION PROVIDED TO US.

COQ. REC. DWG. No.
E1246-02

No.	DATE	BY	CHK'D	REVISION
.	2014–07–03	AM	NB	ISSUED FOR REVIEW
.	2015–02–19	RF	NB	ISSUED FOR TENDER
.	2016–06–20	AM	NB	RECORD DRAWING

DRAWING REFERENCE

DMD & Associates Ltd.
#12–17358 104A Avenue
Surrey, BC, Canada V4N 5M3
www.dmdeng.com 604/589–9010
office@dmdeng.com Fax 604/589–9012

DESIGNED	MICAH de GOUVEIA
DRAWN	ARVIND MUTTI
CHECKED	NEIL BRIGHT
DATE	MAY 16, 2014
SCALE:	AS SHOWN

SEAL

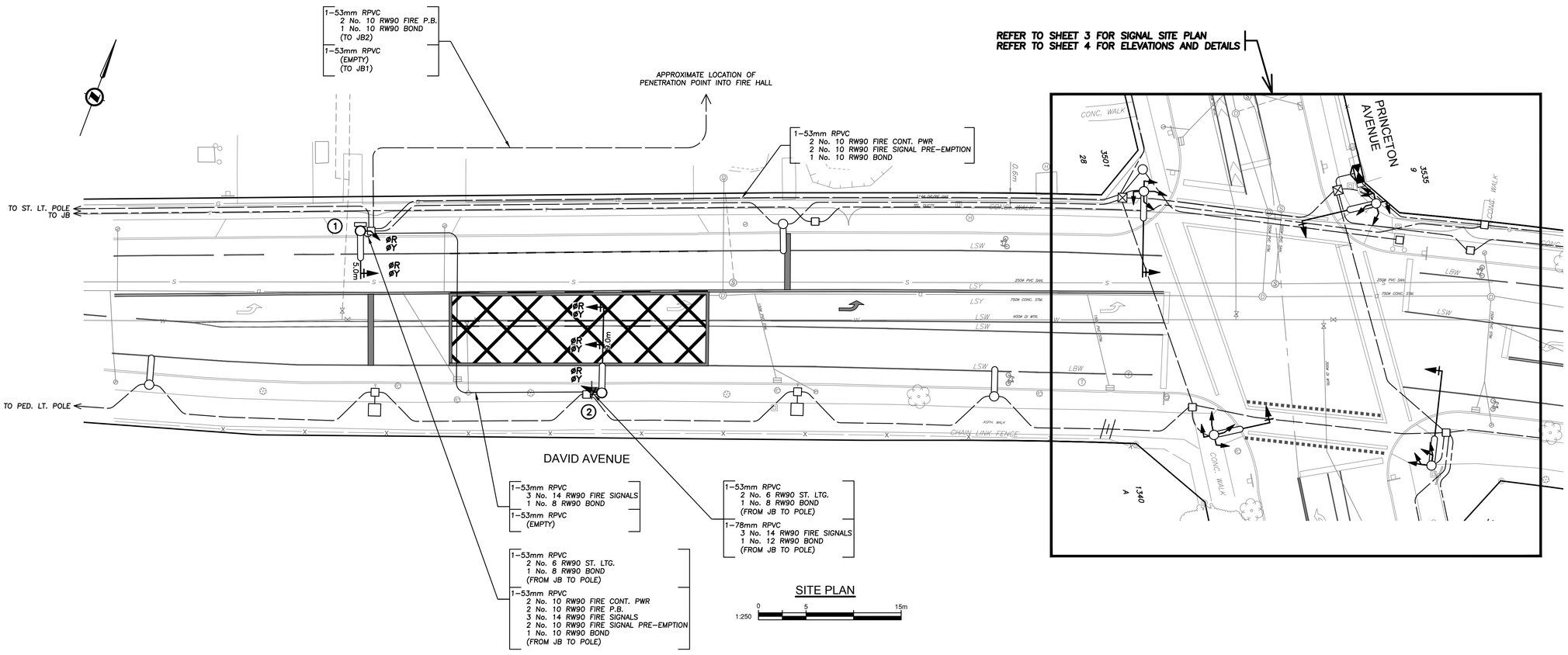
DELCAN CORPORATION
Suite 2300 – 4710 Kingsway, Metrotower I, Burnaby, B.C. V5H 4M2

STREET LIGHTING
DAVID AVENUE FROM COAST MERIDIAN ROAD TO PRINCETON AVENUE
COQUITLAM, BC

PROJECT No.	SHEET No.	REVISION
4260–14–02 of 04	2 of 4	.

DMD (2009)

CANCEL PRINTS BEARING PREVIOUS LETTER



SITE PLAN

1:250 0 5 15m

LEGEND

- COMBINATION FIRE SIGNAL POLE
- DAVIT STREET LIGHT POLE
- PATHWAY POLE
- JUNCTION BOX
- CONDUIT AND CONDUCTORS
- COMMUNICATIONS CONDUITS

NOTES

1. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE (IN ORDER OF PRECEDENCE) WITH THE SUPPLEMENTAL SPECIFICATIONS, MASTER MUNICIPAL CONSTRUCTION DOCUMENT, 2009 ISSUE AND THE CURRENT MOTH STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION UNLESS OTHERWISE NOTED ON DESIGN DRAWINGS.
2. CONDUCTORS INSIDE POLES SHALL BE:
   No. 14 RW90 X–LINK FOR SIGNALS
   No. 12 RW90 X–LINK FOR ALL OTHERS
3. A TRON HEB AA WEATHERPROOF FUSE HOLDER, C/W A 10A BUSS KTK FUSE AND 2 'L' TYPE INSULATING BOOTS, SHALL BE INSTALLED IN EACH LUMINAIRE & SIGN LIVE CONDUCTOR, IN THE HANDHOLE.
4. ALL SINGLE CONDUCTORS SHALL BE STRANDED COPPER, TYPE RW90 INSULATED AND COLOR CODED.
5. EMPTY CONDUITS SHALL HAVE A No.8 HB POLY YELLOW/GRN Mk PULL STRING AND CAPPED AT BOTH ENDS AS PER MMCD E3.6.
6. WHERE INDIVIDUAL CONDUCTORS OR CABLES ARE RUN, ALL OF THE COMMON CIRCUITS SHALL BE BUNDLED, TY–RAPPED TOGETHER WITH IDENTIFICATION TAGS IN ALL JUNCTION BOXES, VAULTS, HAND HOLES, CONTROLLER AND ACCESS POINTS AS NOTED IN THE MMCD. TAGS SHALL BE MARKED AS FOLLOWS CABLE N/W POLE, STREET LIGHTING CCTS R OR B, PHOTOCELL, CONTROLLER POWER, WITH BLACK INDELIBLE MARKING PEN. TAGS TO BE ATTACHED NO FURTHER THAN 75mm FROM WIRE OR CABLE TERMINATION POINT.
7. TRAFFIC SIGNAL NEUTRALS SHALL BE KEPT SEPARATE FROM STREET LIGHTING NEUTRAL CONDUCTORS.
8. ALL SIGNAL HEADS AND LUMINAIRES SHALL BE BONDED WITH A SEPARATE No.12 RW90 CONDUCTOR (GREEN) AT THE HANDHOLE, AS REQUIRED.
9. EQUIPMENT MODELS SPECIFIED SHALL BE CONFIRMED WITH THE CITY IMMEDIATELY PRIOR TO THEIR PURCHASE TO ENSURE THAT THEY ARE CORRECT AND CURRENT. CUTSHEETS, EQUIPMENT, MAKE, MODEL & SERIAL LIST TO BE PROVIDED FOR EACH SIGNAL LOCATION.
10. ALL CONDUITS ENTERING POLES AND CABINETS SHALL BE SEALED WITH "DUCT SEAL".
11. CONTRACTOR IS REQUIRED TO PROVIDE 72 HOURS NOTICE PRIOR TO ANY CONSTRUCTION.
12. TRAFFIC CONTROL IS REQUIRED TO CITY STANDARDS. (M.o.T.)
13. ALL SIGNAL POLE ARMS TO BE GALVANIZED, PRIMED AND POWDER–COATED IN COLOUR. EQUIVALENT TO COQUITLAM LAMP STANDARD GREEN RAL 6028, UNLESS OTHERWISE NOTED OR APPROVED.
14. INSTALL HANGER BAR & TY–RAP WIRES TO BAR IN JUNCTION BOXES AS PER MMCD DRAWING E3.6.
15. BOND ALL STEEL JUNCTION BOX LIDS.
16. CONTRACTOR SHALL REPLACE ALL ASPHALT, CONCRETE SIDEWALKS AND WHEELCHAIR RAMPS REMOVED FOR THE INSTALLATION OF THE SIGNAL AND COMM EQUIPMENT, AND RESTORE TO THE SAME OR BETTER CONDITION.
17. BACKBOARDS WITH PLUMBIZER GAPS OR KNOCKOUT SECTIONS WILL NOT BE ACCEPTED FOR ANY HEAD MOUNTED WITH OTHER THAN PLUMBIZER STYLE HARDWARE.
18. ALL ELECTRICAL PRODUCTS SHALL BEAR CSA/ETC APPROVALS OR BC ELECTRICAL INSPECTION PRIOR TO INSTALLATION.
19. SIGNAL WIRING SHALL BE TAGGED AND LABELED USING PANDUIT MP250–C TAGS AND THE APPROPRIATE PANDUIT INDELIBLE MARKER.
20. SECURITY HARDWARE TO BE USED ON ALL POLES, SECURITY BITS ARE TO BE SUBMITTED TO THE CITY AFTER SIGNAL HAS BEEN FULLY COMPLETED.

IMPORTANT:
HYDRO, GAS AND TELEPHONE **ARE NOT LOCATED** ON THE CITY OF COQUITLAM AS-BUILTS.
CONTACT BC HYDRO, TERASEN GAS AND TELUS FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN **ARE APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND **THE ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NO WAY GUARANTEED BY THE CITY.**

The seal and signature on the undersigned of this drawing certifies that the design information contained in these drawings accurately reflects the original design and the material design changes made during construction that were brought to the undersigned's attention. These drawings are intended to incorporate addenda, change orders and other material design changes, but not necessarily all site instructions.

The undersigned does not warrant or guarantee, nor accept any responsibility for the accuracy or completeness of the as-constructed information supplied by others contained in these drawings, but does, by sealing and signing, certify that the as-constructed information, if accurate and complete, provides an as-constructed system which substantially complies in all material respects with the original design intent.

FOR EXISTING STREET LIGHTING INFORMATION, REFERENCE COQUITLAM PROJECT No. E1246-02

BC 1 CALL — CALL BEFORE YOU DIG! 1-800-474-6886 or by CELLULAR #6886 Vancouver Area 257-9140 — CALL AT LEAST TWO FULL WORKING DAYS BEFORE YOU PLAN TO DIG

COQ AS BUILT
E1246-03

Benchmark:

Contractor to contact Telus, BC Hydro, FortisBC and BC one call prior to construction to confirm locations of utilities and appurtenances requiring adjustment.

DMD & Associates
Electrical Consultants Ltd.
#12-17358 104A Avenue, Surrey, BC, Canada V4N 5M3
www.dmdeng.com 604/589-9010
office@dmdeng.com Fax 604/589-9012

DMD PROJECT No. 7952-23-01 of 04

No.	Date	By	Revisions
.	2024-07-24	.	RECORD DRAWING
.	2024-01-04	.	ISSUED FOR CONSTRUCTION
.	2023-11-03	.	ISSUED FOR TENDER
.	2023-10-10	.	PRELIMINARY SUBMISSION

ACCEPTED FOR CONSTRUCTION
Date:_____
Manager of Development Servicing

Coquitlam
Engineering & Public Works
3000 Guildford Way, Coquitlam, B.C. V3B 7N2

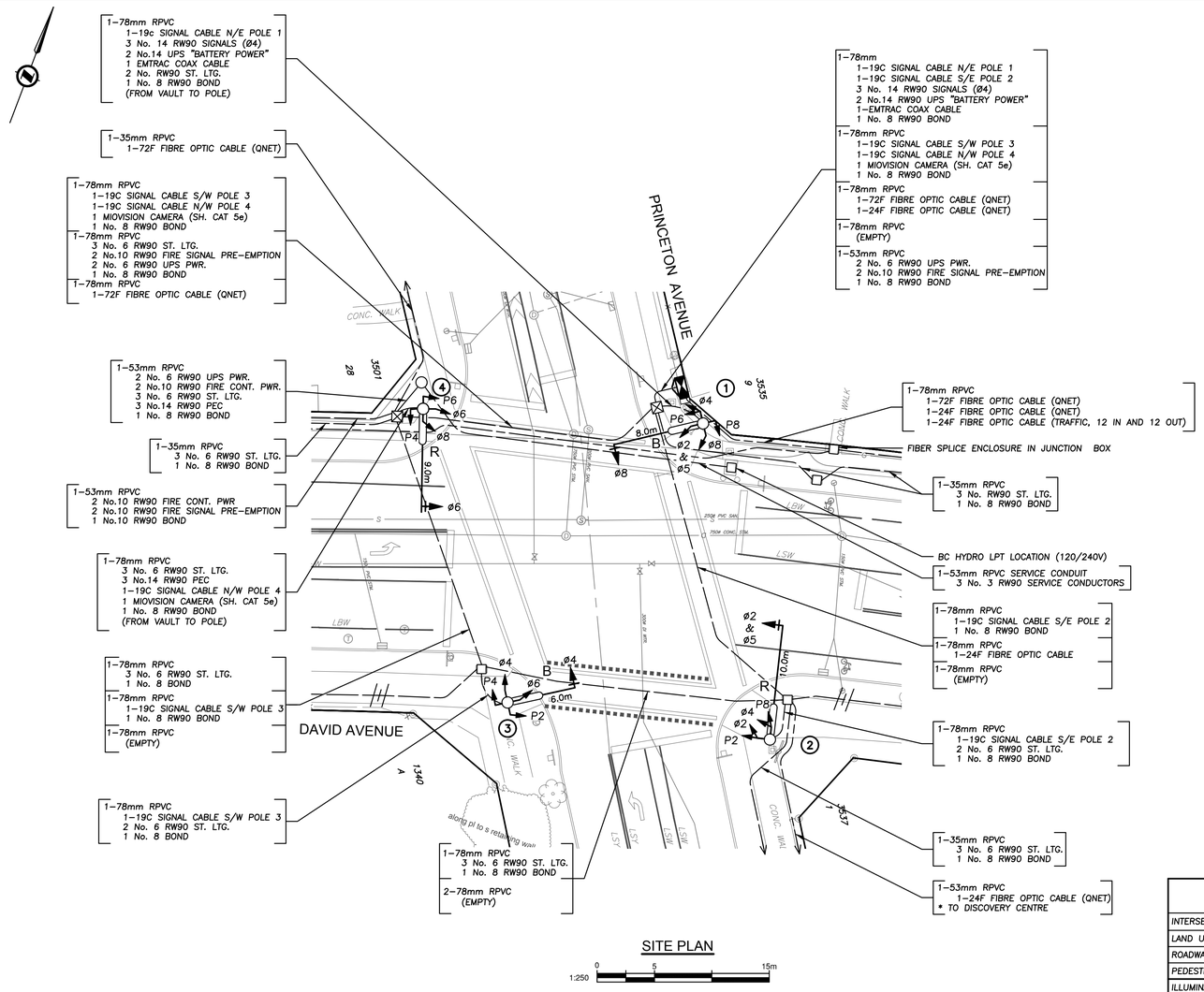
PERMIT TO PRACTICE
Signature:_____
Date: 2024-07-24
PERMIT NUMBER: 1000771
The Association of Professional Engineers and Geoscientists of British Columbia

Seal: PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — N. W. [illegible]
2024-07-24

Design by BP	Date 28-07-2023	Scale 1:250	
Drawn by KH	Date 28-07-2023	Sheet of 1 OF 4	
Checked by NB	Date 06-10-2023	Eng. Project No. .	
Approved by .	Date .		

Project: DAVID AVENUE
Description: FIRE SIGNAL
File: 7952-23

Plot Date: July 24, 2024



SITE PLAN

1:250 0 5 15m

LEGEND

- COMBINATION TRAFFIC SIGNAL POLE
- TRAFFIC CONTROLLER (TYPE 44) C/W CABINET MOUNTED UPS ON TYPE P44 CONCRETE BASE C/W CONCRETE WORKING PAD FOR UPS
- CONCRETE VAULT (1.04m x 1.04m) C/W BONDED GALVANIZED STEEL CHECKERPLATE LIDS LABELED "ELEC" (REFER TO DWG. SS–E2.5).
- JUNCTION BOX
- R — LUMINAIRE ON RED PHASE CONDUCTORS
- B — LUMINAIRE ON BLACK PHASE CONDUCTORS
- Ø2 — VEHICLE PHASE
- P2 — PEDESTRIAN PHASE
- CONDUIT AND CONDUCTORS
- 3 No. 6 RW90 ST. LTG. & 1 No. 8 RW90 BOND IN 35mm RPVC
- 4–78mm RPVC COMMUNICATIONS CONDUITS

IMPORTANT:
HYDRO, GAS AND TELEPHONE **ARE NOT LOCATED** ON THE CITY OF COQUITLAM AS-BUILTS.
CONTACT BC HYDRO, TERASEN GAS AND TELUS FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN **ARE APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND **THE ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NO WAY GUARANTEED BY THE CITY.**

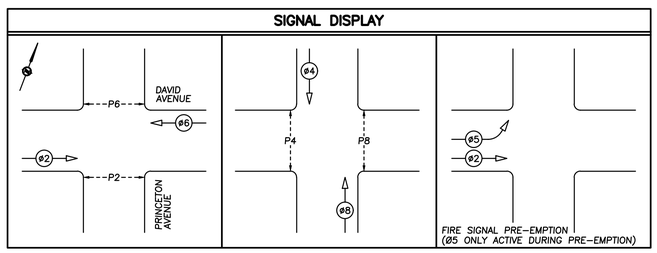
TRAFFIC SIGNAL NOTES

1. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE (IN ORDER OF PRECEDENCE) WITH THE SUPPLEMENTAL SPECIFICATIONS, MASTER MUNICIPAL CONSTRUCTION DOCUMENT, 2009 ISSUE AND THE CURRENT MOTH STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION UNLESS OTHERWISE NOTED ON DESIGN DRAWINGS.
2. CONDUCTORS INSIDE POLES SHALL BE:
   No. 14 RW90 X–LINK FOR SIGNALS
   No. 12 RW90 X–LINK FOR ALL OTHERS
3. A TRON HEB AA WEATHERPROOF FUSE HOLDER, C/W A 10A BUSS KTK FUSE AND 2 'L' TYPE INSULATING BOOTS, SHALL BE INSTALLED IN EACH LUMINAIRE & SIGN LIVE CONDUCTOR, IN THE HANDHOLE.
4. EXACT POSITION OF ALL EQUIPMENT WILL BE LAYED OUT BY THE CITY REPRESENTATIVE.
5. ALL SINGLE CONDUCTORS SHALL BE STRANDED COPPER, TYPE RW90 INSULATED AND COLOR CODED.
6. EMPTY CONDUITS SHALL HAVE A No.8 HB POLY YELLOW/GRN Mk PULL STRING AND CAPPED AT BOTH ENDS AS PER MMCD E3.6.
7. WHERE INDIVIDUAL CONDUCTORS OR CABLES ARE RUN, ALL OF THE COMMON CIRCUITS SHALL BE BUNDLED, TY–RAPPED TOGETHER WITH IDENTIFICATION TAGS IN ALL JUNCTION BOXES, VAULTS, HAND HOLES, CONTROLLER AND ACCESS POINTS AS NOTED IN THE MMCD. TAGS SHALL BE MARKED AS FOLLOWS CABLE N/W POLE, STREET LIGHTING CCTS R OR B, PHOTOCELL, CONTROLLER POWER, WITH BLACK INDELIBLE MARKING PEN. TAGS TO BE ATTACHED NO FURTHER THAN 75mm FROM WIRE OR CABLE TERMINATION POINT.
8. TRAFFIC SIGNAL NEUTRALS SHALL BE KEPT SEPARATE FROM STREET LIGHTING NEUTRAL CONDUCTORS.
9. ALL SIGNAL HEADS AND LUMINAIRES SHALL BE BONDED WITH A SEPARATE No.12 RW90 CONDUCTOR (GREEN) AT THE HANDHOLE, AS REQUIRED.
10. EQUIPMENT MODELS SPECIFIED SHALL BE CONFIRMED WITH THE CITY IMMEDIATELY PRIOR TO THEIR PURCHASE TO ENSURE THAT THEY ARE CORRECT AND CURRENT. CUTSHEETS, EQUIPMENT, MAKE, MODEL & SERIAL LIST TO BE PROVIDED FOR EACH SIGNAL LOCATION.
11. ALL CONDUITS ENTERING POLES AND CABINETS SHALL BE SEALED WITH "DUCT SEAL".
12. SEE B.C. HYDRO STANDARDS FOR SERVICE CONNECTION DETAILS.
13. CONTRACTOR SHALL CONFIRM EXACT SERVICE LOCATIONS WITH B.C. HYDRO PRIOR TO CONSTRUCTION.
14. CITY TO SUPPLY CONTROLLER AND UPS. ALLOW MINIMUM 10 WEEKS FOR CONTROLLER AND UPS TO BE AVAILABLE FOR INSTALLATION. CONTRACTOR TO PICK UP TRAFFIC CONTROLLER AND CABINET, UPS AND STREET SIGN FROM CITY OF COQUITLAM SERVICE CENTRE, TRAFFIC DIVISION, DELIVER TO THE SITE AND INSTALL (ONE WEEK NOTICE REQUIRED).
15. CONTRACTOR IS REQUIRED TO PROVIDE 72 HOURS NOTICE PRIOR TO ANY CONSTRUCTION.
16. TRAFFIC CONTROL IS REQUIRED TO CITY STANDARDS. (M.o.T.)
17. ALL POLES, ARMS, SERVICE BASES, ETC. TO BE GALVANIZED, PRIMED AND POWDER–COATED IN COLOUR. EQUIVALENT TO COQUITLAM LAMP STANDARD GREEN RAL 6028, UNLESS OTHERWISE NOTED OR APPROVED.
18. INSTALL BELL END FITTING ON ALL CONDUITS ENTERING JUNCTION BOXES.
19. INSTALL HANGER BAR & TY–RAP WIRES TO BAR IN JUNCTION BOXES AS PER MMCD DRAWING E3.6.
20. ALL CONDUITS SHALL BE BURIED MINIMUM 600mm DEEP. A 'BURIED CABLE" MAKER TAPE SHALL BE INSTALLED 300mm ABOVE CONDUIT IN ALL TRENCHES. DETECTABLE (METALIC) TAPE TO BE USED ABOVE CONDUIT IN TRENCHES CONTAINING ONLY INTERCONNECT CONDUIT.
21. BOND ALL STEEL JUNCTION BOX LIDS.
22. CONTRACTOR SHALL REPLACE ALL ASPHALT, CONCRETE SIDEWALKS AND WHEELCHAIR RAMPS REMOVED FOR THE INSTALLATION OF THE SIGNAL AND COMM EQUIPMENT, AND RESTORE TO THE SAME OR BETTER CONDITION.
23. AUDIBLE PEDESTRIAN SIGNAL ENTRANCE TO POLE (MOUNTING HOLE) SHALL BE SEALED WITH SILICONE SEALANT.
24. BACKBOARDS WITH PLUMBIZER GAPS OR KNOCKOUT SECTIONS WILL NOT BE ACCEPTED FOR ANY HEAD MOUNTED WITH OTHER THAN PLUMBIZER STYLE HARDWARE.
25. ALL ELECTRICAL PRODUCTS SHALL BEAR CSA/ETC APPROVALS OR BC ELECTRICAL INSPECTION PRIOR TO INSTALLATION.
26. SIGNAL WIRING SHALL BE TAGGED AND LABELED USING PANDUIT MP250–C TAGS AND THE APPROPRIATE PANDUIT INDELIBLE MARKER.
27. SECURITY HARDWARE TO BE USED ON ALL POLES, SECURITY BITS ARE TO BE SUBMITTED TO THE CITY AFTER SIGNAL HAS BEEN FULLY COMPLETED.
28. ALL DETECTOR TO LOOP CABLE SPLICES SHALL BE SOLDERED WITH ROSIN CORE SOLDER (NO ACID CORE OR ACID FLUX) THEN CAP WITH WATERPROOF GEL FILLED WIRE NUT AND TAPE WITH VINYL DI–ELECTRIC TAPE. SUSPEND AND TY–WRAP SPLICES IN TOP OF JUNCTION BOX WITH OPEN END OF WIRE NUTS POINTING DOWN. REFER TO COQUITLAM SUPPLEMENTARY DRAWINGS SS–E8.2 & SS–E8.4
29. DETECTOR CABLE TO BE IMSA 50–2 SPECIFICATION:
    2 CONDUCTOR 14 GAUGE STRANDED IMSA 50–2 SPECIFICATION SHIELDED LOOP DETECTOR CABLE.
30. ALL GROUND PLATES AND GROUND PLATE CONDUCTORS ARE TO HAVE A MINIMUM OF 5 METERS CLEARANCE BETWEEN THEM.
31. ALL JUNCTION BOXES, IN SOFT BOULEVARD SHALL BE SUPPORTED/PROTECTED WITH A CONCRETE COLLAR. MINIMUM 200mm WIDE BY 150mm DEPTH, WITH REBAR. COLLAR TO SLOPE DOWN AWAY FROM BOX OPENING AT 3% TO DIRECT WATER AWAY FROM BOX OPENING. REFER TO COQUITLAM SUPPLEMENTAL SPECIFICATION DRAWING SS–E2.5 FOR DETAILS.
32. JUNCTION BOXES IN SIDEWALK AREAS SHALL BE SUPPORTED BY CONCRETE MATERIALS ON ALL SIDES WITH A 200mm WIDE x 150mm DEEP CONCRETE COLLAR FLUSH WITH TOP OF SIDEWALK AND THE TOP OF THE BOX LID.
33. JUNCTION BOXES FOR ELECTRICAL APPLICATIONS (TRAFFIC SIGNALS, STREET LIGHTING, ETC.) – THE LIDS SHOULD BE ETCHED ELEC, JUNCTION BOXES FOR COMMUNICATIONS – THE LIDS SHOULD BE ETCHED COMM, ALL UPPERCASE LETTERS.
34. POLYMER CONCRETE 24 x 36 x 36 PULL BOXES SHALL BE INSTALLED AS SHOWN ON STANDARD DETAIL MMCD DRAWING E2.3 C/W BOLT 2 PIECE DOWN LIDS. REPLACE 150mm FINE DRAIN ROCK WITH 300mm FINE DRAIN ROCK.
35. BOTTOM OF JUNCTION BOXES SHALL BE OPEN. BOTTOM SECTIONS SHALL BE SUPPORTED WITH CONCRETE BRICKS AND USE CRUSHED GRAVEL TO DRAIN WATER.
36. ALL BOLT DOWN JUNCTION BOX LIDS SHALL BE TIER 15 (20K) RATED.
37. EMTRAC ANTENNA WILL BE SUPPLIED BY THE CITY AND INSTALLED BY THE CONTRACTOR. CITY WILL SUPPLY AND CONTRACTOR WILL INSTALL BRACKET WITH NEOPRENE GASKET MATERIAL TO FORM A SEAL BETWEEN BRACKET AND POLE. NEOPRENE SHALL BE FULLY ENCLOSED WITHIN OUTER EDGES OF THE BRACKET SUCH THAT NONE IS VISIBLE AFTER THE BRACKET IS MOUNTED. EMTRAC ANTENNA CABLE (TIMES COMMUNICATION CABLE LMR–240DB) WILL BE SUPPLIED BY THE CITY AND INSTALLED BY THE CONTRACTOR. CONTRACTOR SHALL CONTACT THE CITY WHEN CABLE IS NEEDED AND SPECIFY LENGTH REQUIRED TO COMPLETE THE PROJECT. EMTRAC CABLE WILL RUN CONTINUOUS WITH NO SPLICES FROM CONTROLLER TO THE EMTRAC ANTENNA. TERMINATION OF CABLE TO BE DONE BY COBRA ELECTRIC.

INTERSECTION DESIGN CRITERIA PER: (CITY BYLAW 3558)

INTERSECTION (NAME)		DAVID AVENUE	PRINCETON STREET
LAND USE CLASSIFICATION		RESIDENTIAL	RESIDENTIAL
ROADWAY CLASSIFICATION		ARTERIAL	COLLECTOR
PEDESTRIAN ACTIVITY LEVEL		MED	MED
ILLUMINANCE RECOMMENDED/DELIVERED		22.0 LUX	24.5 LUX
UNIFORMITY RECOMMENDED/DELIVERED		3.0:1	1.6:1
LIGHT LOSS FACTOR		0.84	
SPACING		AS SHOWN	
EQUIPMENT			
FIXTURE TYPE: LED	WATTAGE: 99W	MTG. HEIGHT: 9.5m	DIST TYPE: II
IES FILE:	NXT–60M–525mA–2ES–4000K	MODEL: NXT–60M– SERIES	
FIXTURE TYPE: LED	WATTAGE: 99W	MTG. HEIGHT: 9.5m	DIST TYPE: II
IES FILE:	NXT–60M–525mA–2ES–4000K	MODEL: NXT–60M– SERIES	
FIXTURE TYPE: LED	WATTAGE: 99W	MTG. HEIGHT: 9.5m	DIST TYPE: II
IES FILE:	NXT–60M–525mA–2ES–4000K	MODEL: NXT–60M– SERIES	
FIXTURE TYPE: LED	WATTAGE: 99W	MTG. HEIGHT: 9.5m	DIST TYPE: II
IES FILE:	NXT–60M–525mA–2ES–4000K	MODEL: NXT–60M– SERIES	

SIGNAL DISPLAY



ALL JUNCTION BOX LOCATIONS AND CONDUIT ROUTING ARE DIAGRAMMATIC AND ARE NOT TO SCALE.

DO NOT USE THIS DRAWING FOR PAVEMENT MARKINGS

The seal and signature on the undersigned of this drawing certifies that the design information contained in these drawings accurately reflects the original design and the material design changes made during construction that were brought to the undersigned's attention. These drawings are intended to incorporate addenda, change orders and other material design changes, but not necessarily all site instructions.

The undersigned does not warrant or guarantee, nor accept any responsibility for the accuracy or completeness of the as-constructed information supplied by others contained in these drawings, but does, by sealing and signing, certify that the as-constructed information, if accurate and complete, provides an as-constructed system which substantially complies in all material respects with the original design intent.

BC 1 CALL — CALL BEFORE YOU DIG! 1-800-474-6886 or by CELLULAR #6886 Vancouver Area 257-9140 — CALL AT LEAST TWO FULL WORKING DAYS BEFORE YOU PLAN TO DIG

COQ AS BUILT
E1246-05TS

Benchmark:

Contractor to contact Telus, BC Hydro, FortisBC and BC one call prior to construction to confirm locations of utilities and appurtenances requiring adjustment.

DMD
DMD & Associates
Electrical Consultants Ltd.
#12-17358 104A Avenue, Surrey, BC, Canada V4N 5M3
www.dmdeng.com 604/589-9010
office@dmdeng.com Fax 604/589-9012

DMD PROJECT No. 7952-23-03 of 04

No.	Date	By	Revisions
.	2024-07-24	.	RECORD DRAWING
.	2024-01-04	.	ISSUED FOR CONSTRUCTION
.	2023-11-03	.	ISSUED FOR TENDER
.	2023-10-10	.	PRELIMINARY SUBMISSION

ACCEPTED FOR CONSTRUCTION
Date:
Manager of Development Servicing

Coquitlam
Engineering & Public Works
3000 Guildford Way, Coquitlam, B.C. V3B 7N2

PERMIT TO PRACTICE
Signature:
Date: 2024-07-24
PERMIT NUMBER: 1000771
The Association of Professional Engineers and Geoscientists of British Columbia

Seal: PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA N. WONG
2024-07-24

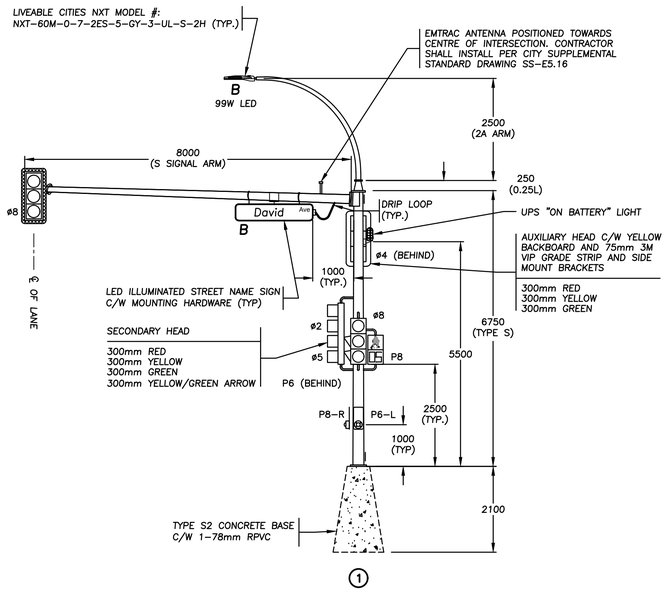
Design by BP	Date 28-07-2023	Scale 1:250	
Drawn by KH	Date 28-07-2023	Sheet of 3 OF 4	
Checked by NB	Date 06-10-2023	Eng. Project No. -	
Approved by	Date -		

Project: PRINCETON AVENUE / DAVID AVENUE
Description: TRAFFIC SIGNAL
File: 7952-23

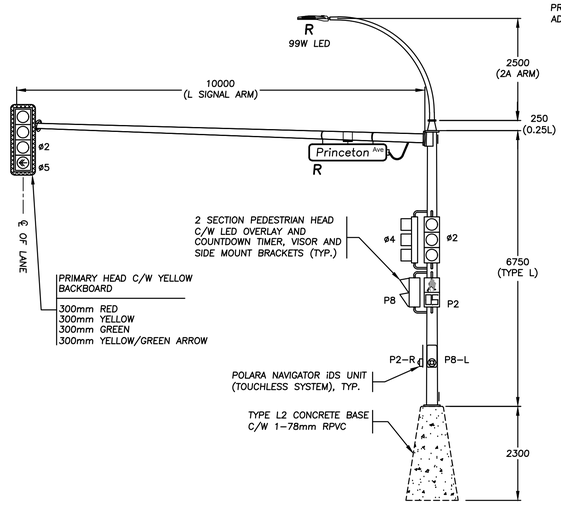
Plot Date: July 24, 2024

ALL SIGNAL DISPLAYS HAVE TUNNEL VISORS

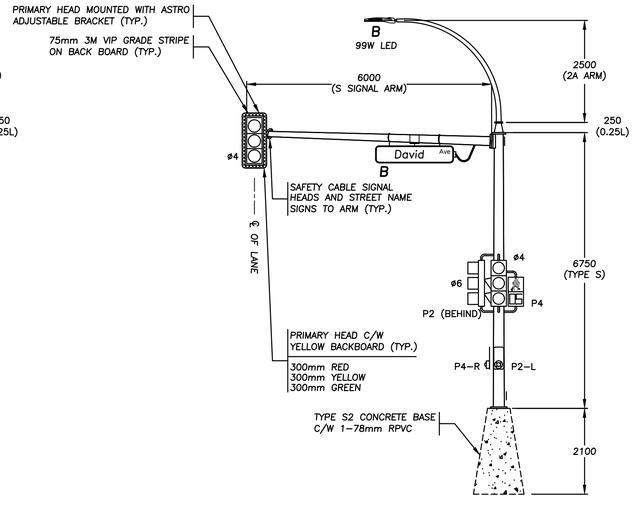
ALL SIGNAL AND PEDESTRIAN DISPLAYS ARE LED



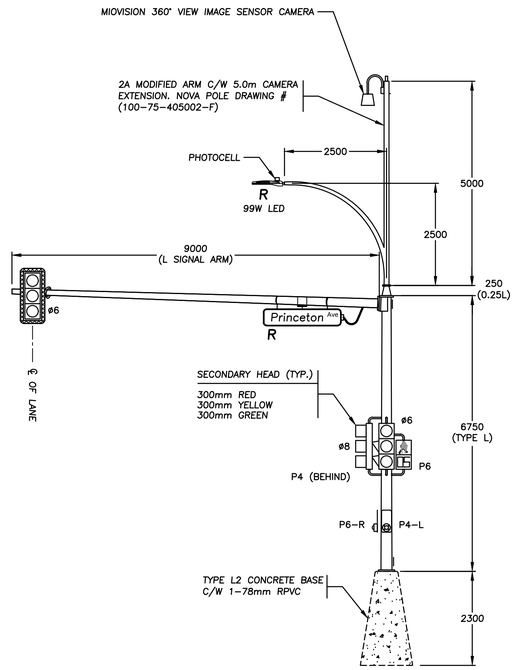
①



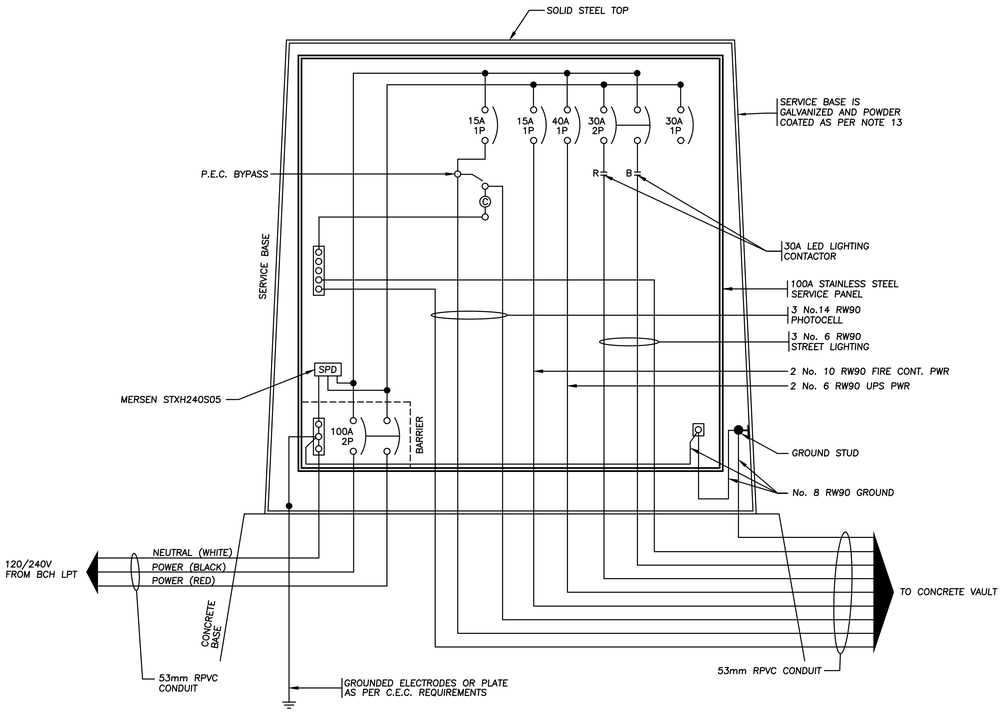
②



③



④



WIRING DIAGRAM
N.T.S.

ELEVATIONS
0 1:75 5

CONDUCTOR COLOUR CODE
(HANDHOLE TO SIGNAL HEADS)

ITEM	SIGNAL SECTION	CONDUCTOR COLOUR
ø2	RED YELLOW GREEN	RED YELLOW BLUE
ø4	RED YELLOW GREEN	RED BROWN BLUE
ø5	YELLOW ARROW GREEN ARROW	ORANGE (WHITE T.T.) BLUE (WHITE T.T.)
ø6	RED YELLOW GREEN	RED YELLOW (RED T.T.) BLUE
ø8	RED YELLOW GREEN	RED BROWN (ORANGE T.T.) BLUE
P2	DON'T WALK WALK PUSH BUTTON	YELLOW BLUE PURPLE/PURPLE (YELLOW T.T.)
P4	DON'T WALK WALK PUSH BUTTON	BROWN BLUE PURPLE/PURPLE (BROWN T.T.)
P6	DON'T WALK WALK PUSH BUTTON	YELLOW (RED T.T.) BLUE PURPLE/PURPLE (RED T.T.)
P8	DON'T WALK WALK PUSH BUTTON	BROWN (ORANGE T.T.) BLUE PURPLE/PURPLE (ORANGE T.T.)

ITEM	CIRCUITS	CONDUCTOR COLOUR
SIGNAL NEUTRAL	NEUTRAL	WHITE
STREET/SIGN LIGHTING LUMINAIRES	B R	BLACK RED
UPS/CONTROLLER	POWER	BLACK
PHOTOCELL	POWER	BLACK
	SWITCH LEG	RED
PANEL SUPPLY	POWER POWER	BLACK RED
NEUTRAL	NEUTRAL	WHITE
GROUND/BOND	GROUND/BOND	GREEN

NOTE: T.T. DENOTES TAPE TRACER.

IMPORTANT:
HYDRO, GAS AND TELEPHONE **ARE NOT LOCATED** ON THE CITY OF COQUITLAM AS-BUILTS.
CONTACT BC HYDRO, TERASEN GAS AND TELUS FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN **ARE APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND **THE ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NO WAY GUARANTEED BY THE CITY.**

The seal and signature on the undersigned of this drawing certifies that the design information contained in these drawings accurately reflects the original design and the material design changes made during construction that were brought to the undersigned's attention. These drawings are intended to incorporate addenda, change orders and other material design changes, but not necessarily all site instructions.

The undersigned does not warrant or guarantee, nor accept any responsibility for the accuracy or completeness of the as-constructed information supplied by others contained in these drawings, but does, by sealing and signing, certify that the as-constructed information, if accurate and complete, provides an as-constructed system which substantially complies in all material respects with the original design intent.

BC 1 CALL — CALL BEFORE YOU DIG!
1-800-474-6886
or by CELLULAR 16886
Vancouver Area 257-7940
CALL AT LEAST TWO FULL WORKING DAYS BEFORE YOU PLAN TO DIG

COQ AS BUILT
E1246-06TS

Benchmark:

Contractor to contact Telus, BC Hydro, FortisBC and BC one call prior to construction to confirm locations of utilities and appurtenances requiring adjustment.

DMD & Associates
Electrical Consultants Ltd.
#12-17358 104A Avenue, Surrey, BC, Canada V4N 5M3
www.dmdeng.com 604/589-9010
office@dmdeng.com Fax 604/589-9012
DMD PROJECT No. 7952-23-04 of 04

No.	Date	By	Revisions
.	2024-07-24	.	RECORD DRAWING
.	2024-01-04	.	ISSUED FOR CONSTRUCTION
.	2023-11-03	.	ISSUED FOR TENDER
.	2023-10-10	.	PRELIMINARY SUBMISSION

ACCEPTED FOR CONSTRUCTION
Date:
Manager of Development Servicing

Coquitlam
Engineering & Public Works
3000 Guildford Way, Coquitlam, B.C. V3B 7N2

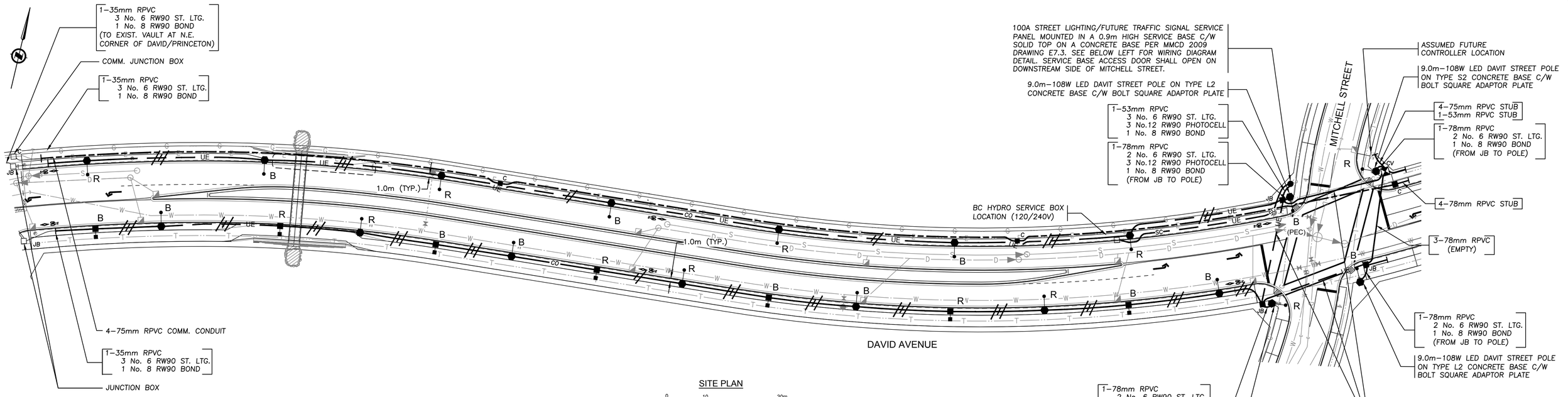
PERMIT TO PRACTICE
Signature:
Date: 2024-07-24
PERMIT NUMBER: 1000771
The Association of Professional Engineers and Geoscientists of British Columbia

Seal:
PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA
2024-07-24

Design by BP	Date 28-07-2023	Scale 1:75	
Drawn by KH	Date 28-07-2023	Sheet of 4 OF 4	
Checked by NB	Date 06-10-2023	Eng. Project No. .	
Approved by .	Date .		

Project: PRINCETON AVENUE
DAVID AVENUE
Description: TRAFFIC SIGNAL
File: 7952-23

Plot Date: July 24, 2024



SITE PLAN

1:500 0 10 30m

120V SERVICE LOAD AT PRINCETON AVENUE AND DAVID AVENUE INTERSECTION

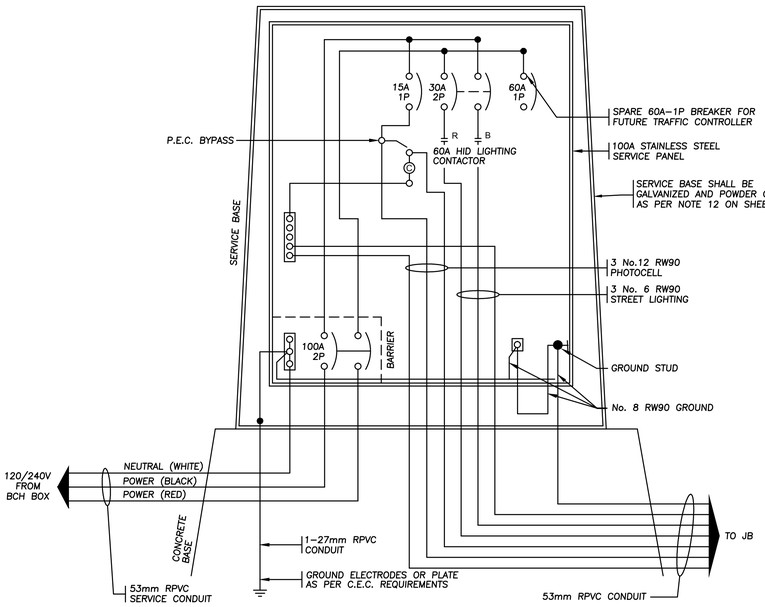
(100A – 120/240V SERVICE PANEL)

WATTAGE (W)	CCT. PHASE	EXISTING	REMOVED	NEW	TOTAL No. OF LIGHTS	CURRENT (A)
150W (HPS)	R	6	0	0	6	10.02A
	B	5	0	0	5	8.35A
92W (LED)	R	0	0	3	3	2.30A
	B	0	0	4	4	3.07A
45W (LED)	R	2	0	0	2	0.80A
	B	2	0	0	2	0.80A
25W (LED)	R	0	0	1	1	0.21A
	B	0	0	2	2	0.42A
1.40% VOLTAGE DROP						

120V SERVICE LOAD AT MITCHELL STREET AND DAVID AVENUE INTERSECTION

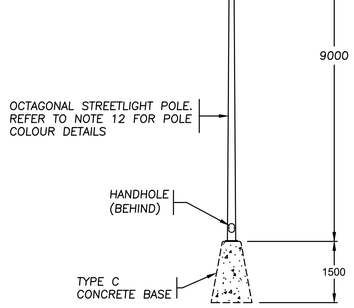
(100A – 120/240V SERVICE PANEL)

WATTAGE (W)	CCT. PHASE	EXISTING	REMOVED	NEW	TOTAL No. OF LIGHTS	CURRENT (A)
92W (LED)	R	0	0	4	4	4.60A
	B	0	0	3	3	3.83A
25W (LED)	R	0	0	2	2	0.42A
	B	0	0	2	2	0.42A
108W (LED)	R	0	0	2	2	1.80A
	B	0	0	2	2	1.80A
0.55% VOLTAGE DROP						

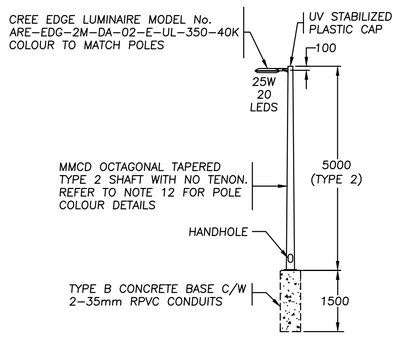


MITCHELL STREET WIRING DIAGRAM

N.T.S.



TYPICAL STREETLIGHT POLE



TYPICAL PATHWAY POLE

ELEVATIONS

0 1:75 5

LUMINANCE DESIGN CRITERIA

ITEM	DESIGN REQUIREMENTS	DESIGN ACHIEVED
STREET NAME(S)	DAVID AVENUE (PRINCETON AVE TO MITCHELL ST)	
PEDESTRIAN CONFLICT AREA	MEDIUM	
ROAD CLASSIFICATION	ARTERIAL	
ILLUMINATION TYPE	9.0m DAVIT POLE 92W LED TYPE 3	
SPACING (MAX)	24m STAGGERED	
LUMINANCE LEVEL (AVG.)	0.9 cd/m^2	1.10 cd/m^2
LUMINANCE UNIFORMITY RATIO (AVG.:MIN.)	3.0:1	1.96:1
VEILING LUMINANCE RATIO (VLMAX.:AVG.)	0.3:1	0.2:1

REFER TO SHEET 1 FOR LEGEND AND NOTES

IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

BC 1 CALL — CALL BEFORE YOU DIG! 1-800-474-6886 or by CELLULAR #6886 Vancouver Area 257-7940 — CALL AT LEAST TWO FULL WORKING DAYS BEFORE YOU PLAN TO DIG.

COQ. ASBUILT No.
E1284-01
C2059

DMD & Associates Ltd.
12-17358 104A Avenue, Surrey, BC, Canada V4N 5M3
www.dmdeng.com 604/589-9010
office@dmdeng.com Fax 604/589-9012
DMD PROJECT No. 4260d-14-01 of 02

No.	Date	By	Revisions	Eng.
1	2017-08-21	PD	RECORD DRAWING	
.	2016-05-17	PD	ISSUED FOR CONSTRUCTION	.
.	2016-04-19	AM	ISSUED FOR TENDER	.

Design by PD Date 02-03-2016
Drawn by GV Date 02-03-2016
Checked by NB Date 02-03-2016
Approved by NB Date 02-03-2016

Coquitlam
Engineering & Public Works
3000 Guildford Way, Coquitlam, B.C. V3B 7N2

Scale AS SHOWN
Sheet of 2 of 2
Eng. Project No. .

Project DAVID AVENUE
PRINCETON AVE. TO MITCHELL ST.
Description STREET LIGHTING
File: 4260d-14

Plot Date: August 21, 2017

GENERAL

THE INTENT OF THIS DOCUMENT IS TO PROVIDE ELECTRICAL ENGINEERING AND CONSULTING FIRMS THE ADDITIONAL DETAILS TO BE INCLUDED IN THEIR PLAN DRAWINGS.

DETAILS REQUIRED FOR SPECIFIC DEVELOPMENTS SHALL BE EXTRACTED FROM THIS DOCUMENT. SUCH AS 120V SERVICES VERSUS 240V SERVICES. ONLY THOSE NOTATIONS THAT ARE SPECIFIC TO THE DEVELOPMENT PLANS SHALL BE USED.

ANY DEVIATIONS FROM THESE SPECIFICATIONS SHALL BE PRE-APPROVED.

STREET LIGHTING NOTES

1. UNLESS OTHERWISE INDICATED, ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF COQUITLAM CURRENT SUBDIVISION CONTROL BYLAWS, CITY OF COQUITLAM SUPPLEMENTARY SPECIFICATIONS AND DETAILED DRAWINGS TO MMCD (CURRENT ISSUE), AND THE MMCD (CURRENT COQUITLAM APPROVED ISSUE).
2. THE CONTRACTOR SHALL REFER TO COQUITLAM RECORD DRAWINGS. FOR ALL CITY UTILITIES, SERVICE LOCATIONS AND DETAILS. THE EXACT LOCATION OF THESE UTILITIES SHALL BE CONFIRMED ON SITE BY THE CONTRACTOR AND WITH COQUITLAM INSPECTORS.
3. CHECK BEFORE YOU DIG: BCOneCall. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATION ONLY, AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVES. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MAY OCCUR DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UNDERGROUND UTILITIES.
4. PRIOR TO STREET LIGHT BASE INSTALLATIONS, THE CONTRACTOR SHALL ENSURE THAT ALL STREET LIGHT POLES, FIXTURES AND RELATED EQUIPMENT MEETS OR EXCEED: BC HYDRO, TELUS, SHAW AND WORKSAFEBC CLEARANCE REQUIREMENTS FOR ALL OVERHEAD PRIMARY AND SECONDARY (120/240V) CONDUCTORS. CONTRACTOR IS RESPONSIBLE TO REPORT ANY CONFLICTS OR DISCREPANCIES TO THE CITY, AND TO THE DESIGN ENGINEERS.
5. THE CONTRACTOR SHALL NOTIFY PROVINCIAL AND COQUITLAM INSPECTORS 24 HOURS PRIOR TO COMMENCEMENT OF UNDERGROUND ELECTRICAL WORK.
6. THE CONTRACTOR SHALL OBTAIN PERMITS FROM THE CITY OF COQUITLAM, AND FROM THE BRITISH COLUMBIA ELECTRICAL SAFETY BRANCH.
7. THE BRITISH COLUMBIA ELECTRICAL SAFETY BRANCH SHALL BE MADE AWARE OF THE (POSSIBLE) USE OF AN IRRIGATION SYSTEM WITHIN THE STREET LIGHT POLES. IRRIGATION POWER SHALL BE POWERED FROM METERED CIRCUITS.
8. ALL STREET LIGHT WIRING SHALL BE DESIGNED IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE, PROVINCE OF BRITISH COLUMBIA AMENDMENTS AND ALL BULLETINS ISSUED BY THE BC ELECTRICAL SAFETY BRANCH, INCLUDING THE PROVINCIAL ELECTRICAL INSPECTION AMENDMENTS.
9. HYDRO SERVICE DIP CONNECTIONS SHALL BE PER BC HYDRO STANDARDS OR PER MMCD (CURRENT COQUITLAM APPROVED ISSUE). NOTE: HYDRO DIP SERVICES MUST USE A STEEL GUARD OVER RPVC CONDUITS. THE USE OF RIGID CONDUIT AND/OR RPVC TO RIGID CONDUIT FITTINGS IS NO LONGER PERMITTED.
10. MINIMUM DEPTH FOR UNDERGROUND CONDUIT DUCTING SHALL BE 600-MM BELOW BOULEVARD AND SIDEWALKS, AND 900-MM BENEATH ASPHALT. PER COQUITLAM SUBDIVISION AND DEVELOPMENT SERVICING BYLAWS.
11. STREET LIGHTING DESIGNS SHALL BE 120/240V SERVICES.
12. UNLESS OTHERWISE INDICATED: ALL POLES, ARMS, SERVICE BASES, HAND ACCESS COVERS, SECURITY COVERS, AND RE-ENFORCED STEEL BACKING BARS, SHALL BE GALVANIZED, PRIMED AND POWDER-COATED IN COLOUR. EQUIVALENT TO COQUITLAM LAMP STANDARD GREEN GENERAL PAINT #16-214 B1Y12F36 EXTERIOR UV STABILIZED INDUSTRIAL ENAMEL, OR WEST COAST ENGINEERING GREEN FERN COQUITLAM PWD P5399-9.
13. ALL STREET LIGHT HAND-HOLE COVERS SHALL BE PROVIDED WITH SECURITY COVERS REINFORCED U-SHAPED REINFORCED BACKER BARS AND SECURITY BOLTS. TWO MAJOR POLE MANUFACTURERS OFFER ENHANCED SECURITY DEVICES:
    a. WEST COAST ENGINEERING OFFERS "BULLDOG" COVERS, RE-ENFORCED U-SHAPED STEEL BACKING BARS AND PROVIDED WITH ROUND HOCKEY PUCK STYLE LOCKS. CONTRACTOR SHALL SUPPLY AND INSTALL LOCKS, AND PROVIDE KEYS TO COQUITLAM TRAFFIC OPERATIONS.
    b. NOVA POLE OFFERS A REINFORCED COVER, REVERSE THREADED SECURITY BOLT, AND ROBUST BACKER BAR. CONTRACTOR SHALL PROVIDE ONE (1) TOOL BIT TO COQUITLAM TRAFFIC OPERATIONS.
    c. THE ABOVE ITEMS DO NOT APPLY TO SPECIALTY POLES, SUCH AS LUMEC, QUATTRO, ETC. CONSULT THOSE COMPANIES FOR THEIR SECURITY MEASURES.
    d. THE WIRE SENTRY PRODUCT IS NOT APPROVED FOR USE IN COQUITLAM.
14. UNLESS OTHERWISE INDICATED, ALL CONDUCTORS SHALL BE TYPE RW90, STRANDED COPPER, INSULATED, AND COLOURS PER STREET LIGHT PLANS.
15. THE STREET LIGHT PHOTO-ELECTRIC CONTROL (PEC) CONDUCTORS SHALL BE #12 RW90, COLOURS: RED, BLACK AND WHITE. BUNDLED SEPARATE OF THE STREET LIGHTING CONDUCTORS.
16. LUMINAIRES SHALL BE WIRED WITH #12 RW90 CONDUCTORS. BLACK AND WHITE FOR 120V SERVICE, BLACK AND RED FOR 240V SERVICE. WIRING BUNDLED SEPARATE OF THE PHOTO-ELECTRIC CONTROL (PEC) CONDUCTORS.
17. LUMINAIRES ON BLACK PHASE CONDUCTOR ARE IDENTIFIED WITH A B DESIGNATION NEXT TO THE PROPOSED / EXISTING LUMINAIRES.
18. LUMINAIRES ON RED PHASE CONDUCTOR ARE IDENTIFIED WITH AN R DESIGNATION NEXT TO THE PROPOSED / EXISTING LUMINAIRES.
19. EACH LUMINAIRE SHALL BE PROVIDED WITH A TRON HEB-AA FUSE-HOLDER C/W 2 L-TYPE INSULATING BOOTS. OR APPROVED EQUIVALENT. THE FUSE-HOLDER SHALL BE ACCESSIBLE IN THE HAND-HOLE COVER.
20. EACH FUSE HOLDER SHALL BE PROVIDED WITH ONE 10-AMPERE BUSS KTK-TYPE FUSE, WIRED IN THE LIVE CONDUCTOR(S). FOR 240V LINE TO LINE SERVICES, ONE TWO POLE FUSE HOLDER AND TWO FUSES SHALL BE PROVIDED. THE FUSE HOLDER(S) SHALL BE ACCESSIBLE FROM THE HAND-HOLE ACCESS AT THE POLE BASES.
21. ALL LUMINAIRE FIXTURES SHALL BE BONDED WITH A NUMBER 12 RW90 GREEN CONDUCTOR. THIS CONDUCTOR SHALL TERMINATE INTO THE BONDING CONDUCTOR RUN AT THE BASE OF THE POLE.
22. THE BOND STUD OPENING SHALL BE AT THE REAR OF THE POLE AND SHALL NOT BE ON THE FLANGE OF THE ACCESS HOLE OPENING.
23. THE INTERIOR COLOUR-FINISHED SURFACE SURROUNDING THE BOND STUD SHALL BE GROUND OFF TO THE GALVANIZING OR BARE STEEL FOR THE ELECTRICAL BOND ADHERENCE. TO ENSURE A PROPER BOND AND REDUCE CORROSION OR RUSTING, THE BONDING STUD SHALL BE INSTALLED IMMEDIATELY AFTER THE GRINDING.
24. THE BONDING STUD IN EACH POLE SHALL COMPRISE OF ONE 3/8-16 BOLT 1.5-INCHES LONG, ONE SPLIT LOCK WASHER, AND TWO HEX NUTS. THE SPLIT LOCK-WASHER SHALL BE SLID ONTO THE BOLT ON THE INSIDE OF THE POLE, AND HELD TIGHTLY IN PLACE WITH THE FIRST NUT. THIS NUT SHALL BE TIGHTENED TO SPECIFICATION. THE RING TERMINAL SHALL BE SANDWICHED BETWEEN THE TWO HEX NUTS. THE LAST NUT HOLDS THE RING TERMINAL IN PLACE. ALL HARDWARE SHALL BE TIGHTENED TO SPECIFICATIONS.
25. ALL POLES SHALL BE BONDED WITH A NO 8 RW90 BONDING CONDUCTOR. THE CONTRACTOR SHALL SUPPLY A 4-WAY PIGTAIL SPLICE TO THE POLE BOND, AND WITH A RING LUG TERMINAL BENEATH THE BONDING HARDWARE.
26. ALL LARGE GAUGE WIRING SPLICES SHALL UTILIZE SPLIT BOLT HARDWARE, AND WEATHER-RESISTANT / WATER-PROOF CONNECTION MEANS. THE STANDARD HOUSE-HOLD "WIRE NUT" IS NOT WATER PROOF.
27. WHERE POSSIBLE, JUNCTION BOXES SHALL BE AVOIDED. JUNCTION BOXES ARE AN EASY ACCESS FOR WIRE THEFT. HOWEVER, IF JUNCTION BOXES ARE REQUIRED FOR 3 OR MORE CONNECTIONS, CITY OF COQUITLAM HAS STANDARDIZED ON DUO-MOLD BOXES BY SYNERTECH. PREFERRED SIZE IS 11X18X24-2, 2 SECTIONS DEEP (MINIMUM).
28. JUNCTION BOXES SHALL BE PROVIDED WITH RPVC SUPPORT BARS TO SUPPORT THE FUSE HOLDERS AND ELECTRICAL CONNECTIONS. THE RPVC BARS SHALL BE ATTACHED INTO THE JUNCTION BOX SIDEWALLS. THE ELECTRICAL CONNECTIONS AND FUSE-HOLDERS WILL BE HELD IN PLACE BY TIE-WRAPS.
29. ALL JUNCTION BOXES WITH METALLIC LIDS (NEW OR EXISTING) SHALL BE BONDED WITH A NO 8 RW90 BONDING CONDUCTOR WITH A SUITABLY SIZED RING LUG. THE CONTRACTOR SHALL SUPPLY A PIGTAIL SPLICE, FOR THE LID BOND.
30. CONCRETE VAULTS AND JUNCTION BOXES LOCATED IN NON-PAVED OR NON-SIDEWALK AREAS ARE TO BE PROTECTED FROM MOWER OR EROSION/VEGETATION DAMAGE WITH A 200mm WIDE x 150mm DEEP CONCRETE COLLAR FLUSH WITH TOP EDGES OF THE TOP OF THE BOX LID. COLLAR TO SLOPE DOWN AWAY FROM BOX OPENING AT 3% TO DIRECT WATER AWAY FROM BOX OPENING. REFER TO COQUITLAM SUPPLEMENTAL SPECIFICATION FOR DETAILS.
31. JUNCTION BOXES IN SIDEWALK AREAS SHALL BE SUPPORTED BY CONCRETE MATERIALS ON ALL SIDES WITH A 200mm WIDE x 150mm DEEP CONCRETE COLLAR FLUSH WITH TOP OF SIDEWALK AND THE TOP OF THE BOX LID.
32. JUNCTION BOXES FOR ELECTRICAL APPLICATIONS (TRAFFIC SIGNALS, STREET LIGHTING, ETC.) – THE LIDS SHOULD BE ETCHED ELEC, JUNCTION BOXES FOR COMMUNICATIONS – THE LIDS SHOULD BE ETCHED COMM, ALL UPPERCASE LETTERS.
33. SYNERTEC 24 x 36 x 36 PULL BOXES SHALL BE INSTALLED AS SHOWN ON STANDARD DETAIL MMCD DRAWING E2.3 C/W BOLT 2 PIECE DOWN LIDS. REPLACE 150mm FINE DRAIN ROCK WITH 300mm FINE DRAIN ROCK.
34. ALL JUNCTION BOXES SHALL BE 2 SECTIONS DEEP. BOTTOM OF JUNCTION BOXES SHALL BE OPEN. BOTTOM SECTIONS SHALL BE SUPPORTED WITH CONCRETE BRICKS AND USE CRUSHED GRAVEL TO DRAIN WATER.
35. ALL BOLT DOWN JUNCTION BOX LIDS SHALL BE TIER 15 (20K) RATED.
36. ALL LARGE GAUGE (# 8 OR LARGER) SPLICES AND CONNECTIONS, WITHIN JUNCTION BOXES OR HAND ACCESS OPENINGS, SHALL BE SEALED WITH TAPE CONSISTING OF BISHOP BI-SEAL PHILLIPS ROTRUNDA OR 3M SELF HOLDING TAPE; COVERED WITH PVC TAPE AND DIPPED IN 3M SCOTCHCOAT. OR PRE-APPROVED EQUIVALENT.
37. WIRING AND FUSE-HOLDERS IN POLE HAND ACCESS AND/OR JUNCTION BOXES SHALL BE MARKED WITH YELLOW WATER-PROOF WIRE MARKER TAGS, AND ATTACHED USING TIE-WRAPS. LABELLING SHALL BE WITH A WATERPROOF SHARPIE INK PEN.
38. WIRING CONNECTIONS, SPLICES AND FUSE-HOLDERS IN JUNCTION BOXES SHALL BE KEPT OUT OF WATER.
39. ALL CONDUITS SHALL BE PROVIDED WITH A NYLON PULL LINE.
40. EMPTY CONDUITS / CONDUITS ONLY (CO) SHALL BE CAPPED.
41. WATER OR OTHER OBSTRUCTIONS, ARE NOT PERMITTED IN CONDUITS. CONDUITS WITH WATER OR OTHER OBSTRUCTIONS SHALL BE BLOWN CLEAR.
42. PER COQUITLAM SUBDIVISION BYLAWS, SECTION 8.04, MINIMUM SPACING BETWEEN STREET LIGHTS AND:
    a. TREES SHALL BE 6-METERS
    b. DRIVEWAYS SHALL BE 2-METERS
43. STREET LIGHT BASE FLANGES SHALL BE LEVEL ON TWO HORIZONTAL AXIS.
44. STREET LIGHT BOLTS SHALL HAVE COLOUR-CODED NUT CAPS.
45. IT SHALL BE THE CONTRACTORS / DEVELOPERS RESPONSIBILITY TO SUBMIT THE ELECTRICAL PERMITS TO THE ASSIGNED COQUITLAM FIELD INSPECTOR. COQUITLAM TRAFFIC OPERATIONS (OR ASSIGNED) WILL INSPECT THE INSTALLATIONS AND PROVIDE A DEFICIENCY LIST (IF NECESSARY). TRAFFIC OPERATIONS WILL ISSUE A REQUEST TO BC HYDRO FOR CONNECTIONS.
46. EFFECTIVE JANUARY 2013, DEVELOPERS ARE REQUIRED TO PAY A FLAT-RATE CHARGE TO CITY OF COQUITLAM FOR NEW BC HYDRO CONNECTION FEES. THIS DOES NOT APPLY WHERE NEW STREET LIGHTS ARE CONNECTED INTO EXISTING SERVICES.

CONCRETE BASE NOTES

1. THE CONCRETE BASES SHALL BE PER MMCD, PROVIDED WITH APPROPRIATE CONDUITS PER DESIGNER REQUIREMENTS.
2. CONCRETE BASES FOR A SERVICE BASE:
    a. PRIOR TO SERVICE BASE INSTALLATIONS, THE CONTRACTOR SHALL ENSURE THE CONCRETE BASE IS PROPERLY ORIENTATED SUCH THAT THE SERVICE CONDUIT (SC) IS ALIGNED TO THE PROTECTED AREA WITHIN THE ELECTRICAL PANEL WITHIN THE SERVICE BASE.
    b. CITY INSPECTOR SHALL ATTEND WHEN THE CONCRETE BASE IS TO BE INSTALLED TO ENSURE THE CONCRETE BASE IS PROPERLY ALIGNED FOR THE SERVICE BASE ACCESS DOOR. PER MMCD PLANS, THE SERVICE BASE ACCESS DOOR SHALL BE ON THE DOWNWARD SIDE OF TRAFFIC.
3. THE CONTRACTOR SHALL ENSURE ALL STREET LIGHT POLES, FIXTURES AND RELATED EQUIPMENT MEETS OR EXCEED BC HYDRO AND WORKSAFEBC CLEARANCE REQUIREMENTS FOR ALL OVERHEAD PRIMARY AND SECONDARY LINES. CONTRACTOR IS RESPONSIBLE TO REPORT ANY CONFLICTS OR DISCREPANCIES TO THE CITY, AND TO THE DESIGN ENGINEERS.
4. CONCRETE BASES WITH MORE THAN 2 CONDUITS SHALL BE NOTED ON THE PLANS. AS AN EXAMPLE, "THIS BASE HAS 3 CONDUITS"
5. CONCRETE BASES SHALL BE PROVIDED WITH A V-GROOVE TO DISPERSE STANDING WATER. IF A V-GROOVE IS NOT AVAILABLE, THEN FLAT STAINLESS STEEL WASHERS SHALL BE MOUNTED BETWEEN THE CONCRETE BASE AND THE BOTTOM OF THE SERVICE BASE.
6. CONCRETE BASE TOPS SHALL BE 7-CM (~2.5-INCHES) ABOVE FINAL GRADE.
7. CONCRETE BASES SHALL BE LEVEL ON TWO HORIZONTAL AXIS.
8. STREET LIGHT BOLTS SHALL HAVE COLOUR-CODED NUT CAPS.

SERVICE BASE NOTES

1. UNLESS OTHERWISE INDICATED, SERVICE BASES AND ELECTRICAL PANELS SHALL BE PER MMCD SPECIFICATIONS AND PLANS. CURRENT COQUITLAM APPROVED.
2. UNLESS OTHERWISE INDICATED, THE SERVICE BASE AND ACCESS COVERS ARE TO BE GALVANIZED, PRIMED AND POWER-COATED IN COLOUR. EQUIVALENT TO COQUITLAM LAMP STANDARD GREEN. GENERAL PAINT #16-214 B1Y12F36 EXTERIOR UV STABILIZED INDUSTRIAL ENAMEL, OR WEST COAST ENGINEERING GREEN FERN COQUITLAM PWD P5399-9.
3. THE SERVICE BASE SHALL BE MOUNTED ON A MMCD CONCRETE BASE, APPROPRIATE CONDUITS PER DESIGNER REQUIREMENTS.
4. THE SERVICE BASE SHALL BE PROVIDED WITH TWO 3/8-16 THREADED HOLES IN THE UPPER FLANGE AND WITH MATING CLEARANCE HOLES ON THE COVER. THESE HOLES SHALL BE AT THE TOP, ONE HOLE ON EITHER SIDE OF THE LOCKING TAB. THE CONTRACTOR SHALL PROVIDE 2 EACH 3/8-16 STAINLESS STEEL BOLTS, FLAT WASHERS AND ANTI-SEIZING COMPOUND. THE CITY MAY INSTALL SECURITY BOLTS.
5. THE SERVICE BASE COVER SHALL NOT BE A SNUG FIT INTO THE SERVICE BASE OPENING. SOME LEEWAY MUST BE PROVIDED TO FIT THE LOCKING TAB AND BOLTS THROUGH THE CLEARANCE HOLES.
6. THE LOCKING TAB SHALL BE OF A ROBUST DESIGN AND MANUFACTURE, AND SHALL ACCEPT A STANDARD CITY PADLOCK. A WCE BULLDOG PRODUCT SHALL NOT BE INSTALLED.
7. THE SERVICE BASE SHALL BE PROVIDED WITH A BONDING TAB. THE COLOUR-FINISHED SURFACE SURROUNDING THE BOND TAB SHALL BE GROUND OFF TO GALVANIZING OR TO BARE STEEL FOR THE ELECTRICAL BOND ADHERENCE. TO ENSURE A PROPER BOND AND REDUCE CORROSION OR RUSTING, THE BONDING STUD SHALL BE INSTALLED IMMEDIATELY AFTER THE GRINDING.
8. UNLESS OTHERWISE INDICATED, ALL CONDUCTORS SHALL BE TYPE RW90 (MINIMUM), STRANDED COPPER, INSULATED, AND COLOUR CODED PER DRAWINGS.
9. THE ELECTRICIAN SHALL PROVIDE A NO 8 GAUGE RW90 BOND WITH A RING LUG FROM THIS TAB INTO THE ELECTRICAL PANEL ONTO THE BONDING BUSS. THE 3/8-16 BOLT SHALL CONSIST OF ONE 3/8-16 BOLT, SPLIT LOCK WASHER AND 2 HEX NUTS. THE RING TERMINAL IS SANDWICHED BETWEEN THE 2 NUTS. TIGHTEN TO SPECIFICATIONS.
10. THE ELECTRICAL PANEL WITHIN THE SERVICE BASE SHALL BE FABRICATED FROM STAINLESS STEEL OR ALUMINUM. THE ELECTRICAL PANEL SHALL BE SET STRAIGHT, AND PARALLEL TO INTERNAL SERVICE BASE SURFACES. AMPERAGE CAPACITIES PER DESIGN DRAWINGS. PANEL SHALL BEAR ELECTRICALLY APPROVED LABELS FOR USE IN CANADA. SUCH AS CSA, CEC, ULC, SPECIAL INSPECTIONS, ETC.
11. ALL CIRCUIT BREAKERS SHALL HAVE A MINIMUM TEMPERATURE RATING OF 75° CELSIUS.
12. THE PHOTOELECTRIC CELL (PEC) CIRCUIT FUSING SHALL PER MMCD, USE A 10-AMPERE KTK TYPE FUSE AND SUITABLE FRONT PANEL MOUNTED FUSE-HOLDER. PUSH-BUTTON CIRCUIT BREAKERS ARE NOT ACCEPTABLE.
13. THE PEC BYPASS SWITCH SHALL PER MMCD, A HEAVY-DUTY, 3-POSITION MAINTAINED, HOA OR OHA ROTARY SWITCH. A TOGGLE SWITCH IS NOT ACCEPTABLE.
14. THE STREET LIGHT PEC CONDUCTORS SHALL BE #12 RW90, COLOURS: RED, BLACK AND WHITE. BUNDLED SEPARATE OF THE STREET LIGHTING CONDUCTORS.
15. THE FRONT PANEL FUSE-HOLDER AND THE PEC BYPASS SWITCH SHALL BE PROVIDED WITH LABELS, DETAILS PER MMCD DRAWINGS.
16. STREET LIGHTS MOUNTED ON A SERVICE BASE SHALL BE WIRED PER MMCD DRAWINGS. THE LUMINAIRE CONDUCTORS SHALL BE GROUPED TOGETHER, AND SEPARATE OF THE PEC WIRING. GROUPING SHALL BE DONE WITH ELECTRICIANS TAPE.
17. GAPS OR OPENINGS BETWEEN THE STREET LIGHT POLE BASE FLANGES, THE OPENINGS FOR THE NUTS AND BOLTS, TO THE TOP OF THE SERVICE BASE, SHALL BE SEALED WITH RTV SEALANT.
18. STREET LIGHT BOLTS SHALL HAVE COLOUR-CODED NUT CAPS.
19. HYDRO SERVICE (DIP) CONNECTIONS SHALL BE PER BC HYDRO STANDARDS OR PER MMCD (LATEST EDITION). NOTE: HYDRO DIP SERVICES SHALL USE A STEEL GUARD OVER RPVC CONDUITS. THE USE OF RIGID CONDUIT AND/OR RPVC TO RIGID CONDUIT FITTINGS IS NO LONGER PERMITTED.
20. THE ELECTRICAL CONTRACTOR SHALL PRE-TEST THE OPERATION OF THE ELECTRICAL PANEL WITHIN THE SERVICE BASE. THIS INCLUDES TESTING THE OHA/HOA SWITCH AND PEC FOR DAYTIME / NIGHTTIME SIMULATION. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AN EMAIL TO TRAFFIC OPERATIONS STAFF TO ADVISE THE SERVICE BASE HAS BEEN DULY TESTED AND READY FOR CONNECTION.

LUMINAIRE FIXTURE NOTES

CITY OF COQUITLAM USES MULTIPLE LUMINAIRE FIXTURE STYLES. SOME STANDARD FIXTURES ARE NOTED BELOW.

1. DAVIT LUMINAIRES SHALL BE COBRA-TYPE FLAT GLASS FIXTURES. SUPPLIED WITH CWA OR CWI BALLASTS, WITH FACETTED REFLECTORS AND FLAT GLASS LENSES. REACTOR TYPE BALLASTS SHALL NOT BE PROVIDED. IF REQUIRED, LUMINAIRES SHALL BE PROVIDED WITH EXTERIOR MOUNTED METALLIC HOUSE SIDE SHIELDS, OR AS NOTED ON THE PLANS.
2. ROADWAY LUMINAIRE SHALL BE LED ROADWAY LIGHTING LTD. NXT MODEL No. NXT-48M-0-7-3HB-6-GY-3-UL-S-2H. INTERSECTION LUMINAIRES SHALL BE MODEL No. NXT-48M-0-7-3HB-7-GY-3-UL-S-2H.
3. PATHWAY OR WALKWAY LIGHTING SHALL BE CREE EDGE SERIES LUMINAIRE, POLE, COLOUR AND CONCRETE BASE PER PLANS.
4. UNLESS OTHERWISE INDICATED, ALL LAMP BULBS SHALL BE CLEAR HPS. LAMP WATTAGES SHALL BE PER PLANS. PATHWAY LIGHTING MAY BE 25W LED.
5. PHOTO ELECTRIC CONTROL (PEC) SHALL NOT BE AN ELECTRO-MECHANICAL DESIGN, AND SHALL BE SOLID-STATE DESIGN. CONTRACTOR MUST PROVIDE PROOF OF THE ELECTRONIC DEVICE.
6. THE STREET LIGHT PEC CONDUCTORS SHALL BE #12 RW90, COLOURS: RED, BLACK AND WHITE.
7. THE PEC SHALL BE AIMED IN A NORTHERN DIRECTION.
8. ALL LUMINAIRE FIXTURES SHALL BE PROVIDED WITH A NEMA LAMP WATTAGE LABEL (I.E. LED = BLACK LETTERING ON WHITE BACKGROUND). LABEL SHALL BE VISIBLE FROM THE GROUND.
9. ALL LUMINAIRE FIXTURES SHALL BEAR ELECTRICALLY APPROVED LABELS FOR USE IN CANADA. SUCH AS CSA, CEC, ULC, SPECIAL INSPECTIONS, ETC.

LEGEND

	DAVIT STREETLIGHT POLE (9.0m – 92W LED TYPE 2ES DISTRIBUTION, FLAT GLASS) ON A TYPE C CONCRETE BASE UNLESS OTHERWISE NOTED
	PATHWAY POLE (5.0m – 25W 20 LEDS C/W TYPE 2 MEDIUM DISTRIBUTION) ON A TYPE B CONCRETE BASE
CV	SMALL CONCRETE VAULT C/W BONDED DOUBLE DOOR GALVANIZED STEEL LID LABELED "ELEC"
JB	POLYMER JUNCTION BOX (SYNERTECH 24 x 36 x 36, OPEN BOTTOM) 2 SECTIONS DEEP C/W LID LABELED "ELEC"
C	POLYMER JUNCTION BOX (SYNERTECH 24 x 36 x 36, OPEN BOTTOM), C/W LID LABELED "COMM" (REFER TO NOTE 32)
R	LUMINAIRE ON RED PHASE CONDUCTOR
B	LUMINAIRE ON BLACK PHASE CONDUCTOR
– UE	3 No.6 RW90 ST. LTG. & 1 No.8 RW90 BOND IN 35mm RPVC
– UE	2 No.6 RW90 ST. LTG. & 1 No.8 RW90 BOND IN 35mm RPVC
	4-78mm RPVC COMMUNICATIONS CONDUITS
	4-78mm RPVC COMMUNICATIONS CONDUITS
– UE – CO –	35mm RPVC CONDUIT ONLY
– UE – CO –	35mm RPVC CONDUIT ONLY
– UE – SC –	53mm RPVC SERVICE CONDUIT C/W 3 No. 3 RW90 FEEDERS
	35mm RPVC STUB OUT FOR FUTURE EXTENSION (CAP & MARK LOCATION)

IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

BC 1 CALL — CALL BEFORE YOU DIG!
1-800-474-6886
or by CELLULAR #6886
Vancouver Area 257-1940
CALL AT LEAST TWO FULL WORKING DAYS BEFORE YOU PLAN TO DIG

COQ. ASBUILT No.
E1284-02

DMD & Associates Ltd.
12-17358 104A Avenue, Surrey, BC, Canada V4N 5M3
www.dmdeng.com 604/589-9010
office@dmdeng.com Fax 604/589-9012
DMD PROJECT No. 4260d-14-01 of 02

No.	Date	By	Revisions	Eng.
1	2017-08-21	PD	RECORD DRAWING	
.	2016-05-17	PD	ISSUED FOR CONSTRUCTION	.
.	2016-04-19	AM	ISSUED FOR TENDER	.

Design by PD	Date 02-03-2016
Drawn by GV	Date 02-03-2016
Checked by NB	Date 02-03-2016
Approved by NB	Date 02-03-2016

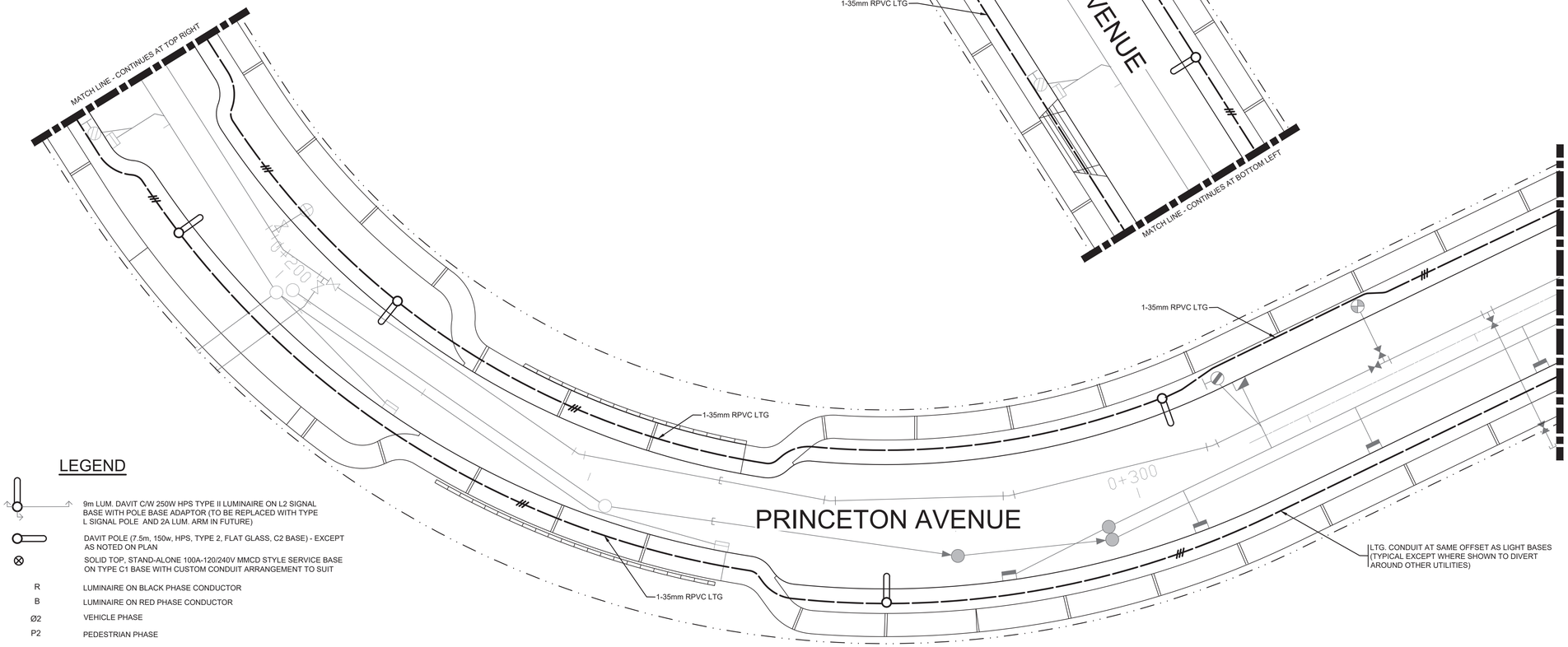
Coquitlam
Engineering & Public Works
3000 Guildford Way, Coquitlam, B.C. V3B 7N2

Scale -
Sheet of 1 of 2
Eng. Project No. .

Project DAVID AVENUE
PRINCETON AVE. TO MITCHELL ST.
Description STREET LIGHTING
File: 4260d-14

Plot Date: August 21, 2017

ROADWAY LIGHTING DESIGN CRITERIA PER: RP-8-00 TABLE 2		ROADWAY LIGHTING DESIGN CRITERIA PER: RP-8-00 TABLE 2	
ROADWAY (NAME)	PRINCETON AVE	ROADWAY (NAME)	MITCHELL ST
ROAD CLASSIFICATION	COLLECTOR	ROAD CLASSIFICATION	COLLECTOR
PEDESTRIAN CONFLICT	MEDIUM	PEDESTRIAN CONFLICT	MEDIUM
ILLUMINANCE RECOMMENDED/DELIVERED	9.0 (LUX) / 9.0 (LUX)	ILLUMINANCE RECOMMENDED/DELIVERED	9.0 (LUX) / 11.4 (LUX)
UNIFORMITY RECOMMENDED/DELIVERED	4:1 / 3.5:1	UNIFORMITY RECOMMENDED/DELIVERED	4:1 / 2.9:1
LIGHT LOSS FACTOR	0.72	LIGHT LOSS FACTOR	0.72
SPACING (STAGGERED)	43m (MAX)	SPACING (STAGGERED)	43m (MAX)
EQUIPMENT:		EQUIPMENT:	
FIXTURE TYPE: HPS / WATTAGE: 150W / MTG. HEIGHT: 7.5m / DIST TYPE: II		FIXTURE TYPE: HPS / WATTAGE: 150W / MTG. HEIGHT: 7.5m / DIST TYPE: II	
IES FILE: GE177286_TCM201-58268.IES / MODEL: GE M250A2		IES FILE: GE177286_TCM201-58268.IES / MODEL: GE M250A2	



LEGEND

- 9m LUM. DAVIT C/W 250W HPS TYPE II LUMINAIRE ON L2 SIGNAL BASE WITH POLE BASE ADAPTOR (TO BE REPLACED WITH TYPE L SIGNAL POLE AND 2A LUM. ARM IN FUTURE)
- DAVIT POLE (7.5m, 150w, HPS, TYPE 2, FLAT GLASS, C2 BASE) - EXCEPT AS NOTED ON PLAN
- SOLID TOP, STAND-ALONE 100A-120/240V MMCD STYLE SERVICE BASE ON TYPE C1 BASE WITH CUSTOM CONDUIT ARRANGEMENT TO SUIT
- R — LUMINAIRE ON BLACK PHASE CONDUCTOR
- B — LUMINAIRE ON RED PHASE CONDUCTOR
- Ø2 — VEHICLE PHASE
- P2 — PEDESTRIAN PHASE
- EXISTING BC HYDRO POLE
- FUTURE P44 TRAFFIC CABINET AND BASE
- 103mm RPVC COMM CONDUIT
- 35mm RPVC ST.LTG CONDUIT C/W 3 No. 6 RW90 STL PWR & 1 No. 8 RW90 BOND
- 35mm RPVC ST.LTG CONDUIT C/W 2 No. 6 RW90 STL PWR & 1 No. 8 RW90 BOND
- CO — STUB OUT AND RUN 35mm RPVC FOR FUTURE EXTENSION (CAP CONDUIT LEAVE PULL STRING INSIDE CONDUIT)
- SC — 53mm RPVC CONDUIT C/W 3 No. 6 RW90 (AC SERVICE)
- TRAFFIC SIGNALS CONDUIT (SIZE, QUANTITY, AND CONTENT AS NOTED)
- ARMTEC 4040 DOUBLE DOOR SIGNAL VAULT (MOT SPEC.)
- SYNERTECH DUO-MOLD 2436-36 JUNCTION BOX (LID MARKED ELEC OR COMM AS REQUIRED)
- 1 — SIGNAL BASE / FUTURE SIGNAL POLE NUMBER

CHECK BEFORE YOU DIG

BC OneCall — Call Before You Dig
1-800-474-6886
or *6886 by CELL
www.bconecall.ca

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. SOME UTILITIES MAY NOT BE SHOWN. THE CONTRACTOR SHALL DETERMINE THE EXISTENCE AND EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH OCCUR DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL EXISTING UTILITIES.

RECORD DRAWING

THE SEAL AND SIGNATURE OF THE UNDERSIGNED ON THIS DRAWING CERTIFIES THAT THE DESIGN INFORMATION CONTAINED IN THESE DRAWINGS ACCURATELY REFLECTS THE ORIGINAL DESIGN AND THE MATERIAL DESIGN CHANGES MADE DURING CONSTRUCTION, THAT WERE BROUGHT TO THE UNDERSIGNED'S ATTENTION. THESE DRAWINGS ARE INTENDED TO INCORPORATE ADDENDA, CHANGE ORDERS AND OTHER MATERIAL DESIGN CHANGES, BUT NOT NECESSARILY ALL SITE INSTRUCTIONS.

GNEC DOES NOT WARRANT OR GUARANTEE, NOR ACCEPT ANY RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE AS-CONSTRUCTED INFORMATION SUPPLIED BY OTHERS CONTAINED IN THESE DRAWINGS, BUT DOES, BY SEALING AND SIGNING, CERTIFY THAT THE AS-CONSTRUCTED INFORMATION, IF ACCURATE AND COMPLETE, PROVIDES AN AS-CONSTRUCTED SYSTEM WHICH SUBSTANTIALLY COMPLIES IN ALL MATERIAL RESPECTS WITH THE ORIGINAL DESIGN INTENT.

COQ AS BUILT
E1323-03
C2067-03

IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

THIS DRAWING AND ALL RELATED FILES ARE PROPRIETARY TO GNEC. RESPONSIBILITY CANNOT BE ACCEPTED BY GNEC FOR ALTERATION AND/OR DEVIATION FROM THIS DESIGN WITHOUT PRIOR ACCEPTANCE BY GNEC. ALL WORK SHOWN IS TO BE CONDUCTED TO THE SATISFACTION OF THE ENGINEER OF RECORD.

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT PROJECT DRAWINGS, SPECIFICATIONS, AND DOCUMENTATION. ALL EXISTING CONDITIONS SHOWN ARE TO BE VERIFIED BY THE CONTRACTOR ON SITE, AND ANY DISCREPANCIES REPORTED TO GNEC FOR ADJUSTMENT AND DIRECTION.

CLIENT
CITY OF COQUITLAM

CLIENT PROJECT No.
-

CITY
Coquitlam
ENGINEERING & PUBLIC WORKS DEPARTMENT
PHONE: 604-927-3500

CITY PROJECT No.	CITY DRAWING No.
-	-

GNEC
Great Northern Engineering Consultants
202 - 8525 Baxter Place
Burnaby, BC V5A 4V7
Phone: 1-855-463-2266
www.gnec.ca

SEAL
PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA C. D. LECOMPTE # 46022 ENGINEER 2018-11-08

REVISION TABLE

REV	DESCRIPTION	DSGN	APPR	DATE
0	RECORD DRAWING	CL	CL	18.11.01

PROJECT DESCRIPTION
PARTINGTON CREEK
PRINCETON - MITCHELL
DESIGN REVISIONS

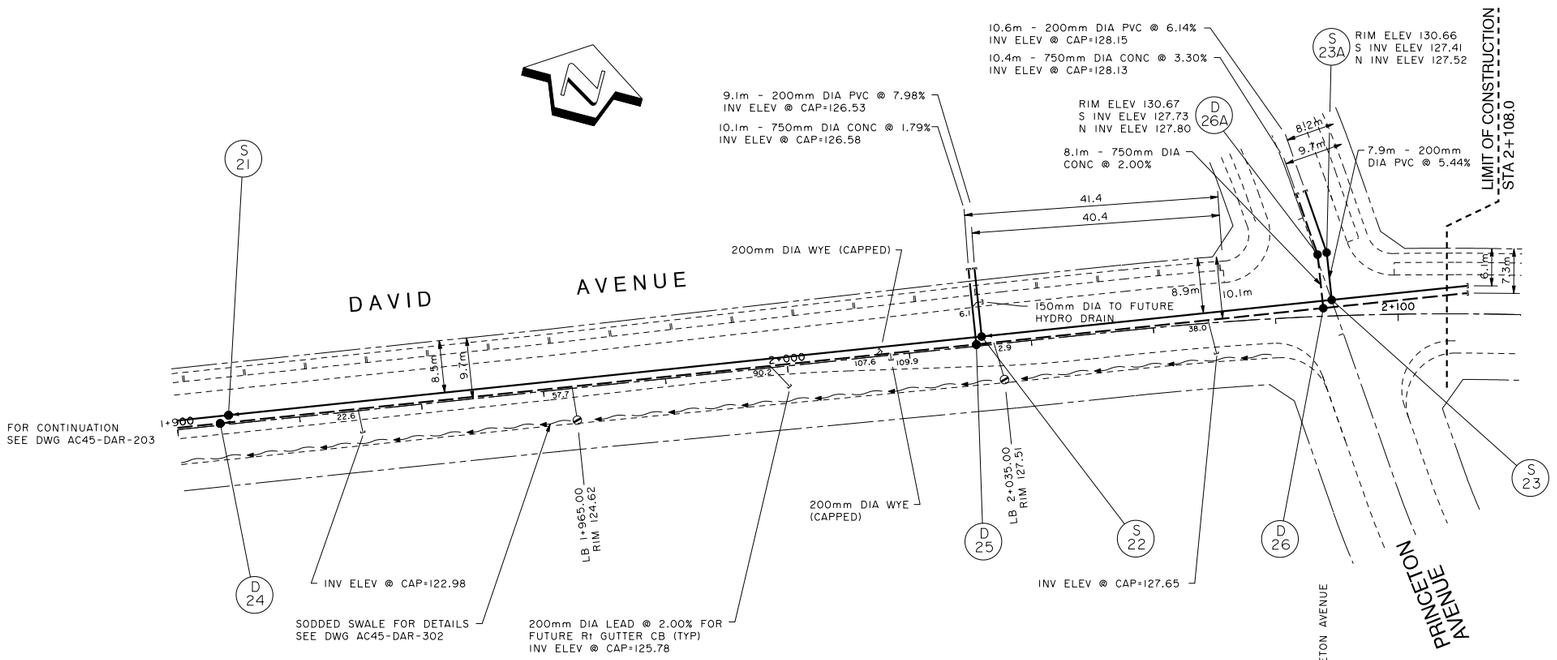
DRAWING TITLE
SIGNAL/COMM/LIGHTING CIVIL WORKS

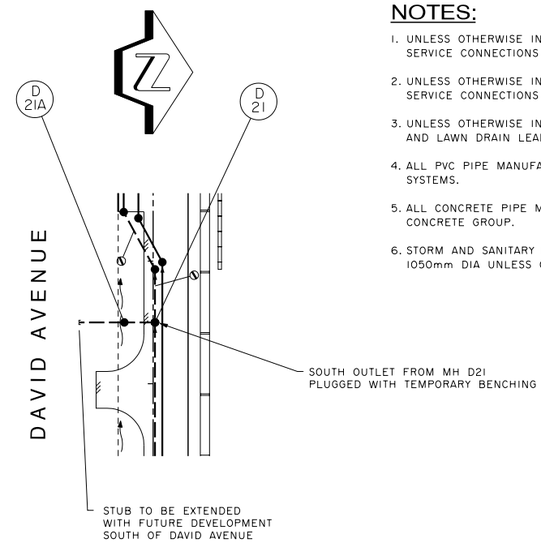
0 1:250 8	GNEC No.	DWG No.	SHT No.	REV
	17BC-0065	E-03	3 of 3	0

DWG. LOCATION: \\192.168.75.75\Burnaby\a-2017 GNEC VAN\17BC-0065 -Coquitlam-Mitchell & Princeton -Const.-\City\01-Mitchell & Princeton\02 Working\17BC-0065 - Princeton at Mitchell COQ TS_Record.dwg
November 1, 2018 12:08:23 PM Enrique.Ullod

SCALE CORRECT WHEN PRINTED 1:1 ON ANSI D SHEET

SUPERCEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO

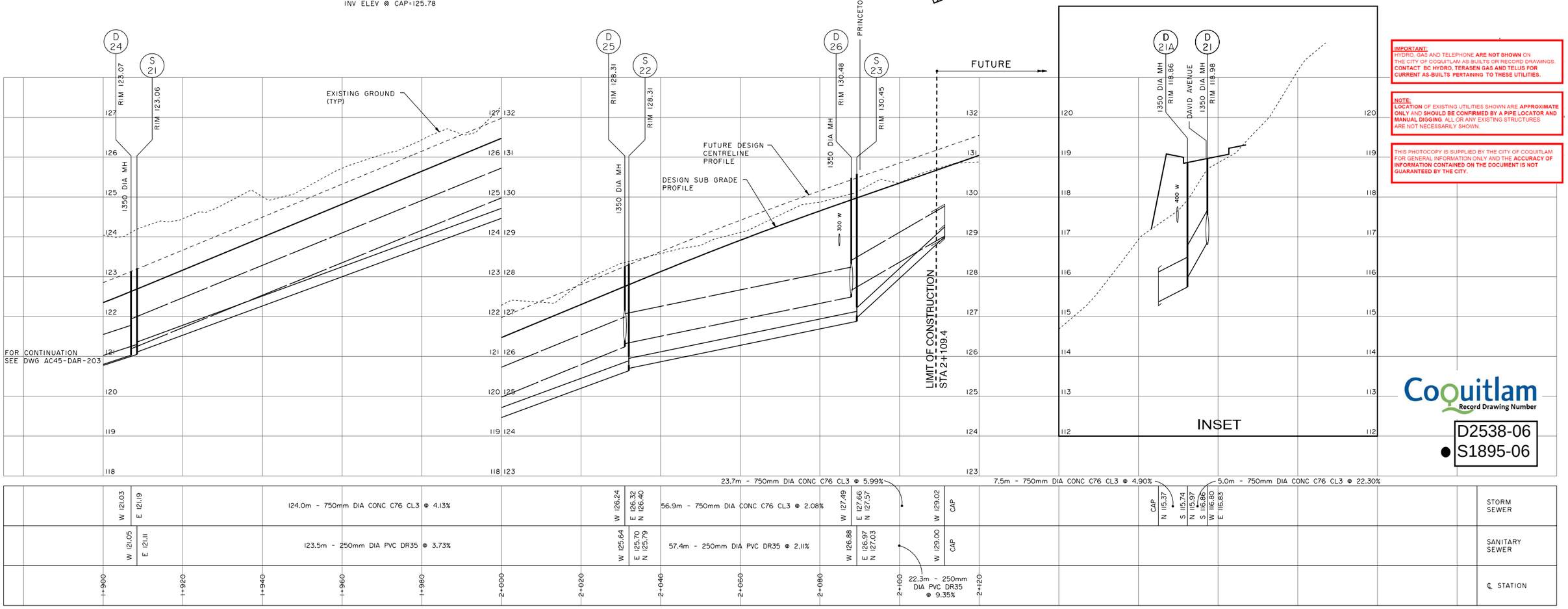




NOTES:

1. UNLESS OTHERWISE INDICATED STORM SERVICE CONNECTIONS ARE 150mm DIA PVC.
2. UNLESS OTHERWISE INDICATED SANITARY SERVICE CONNECTIONS ARE 100mm DIA PVC.
3. UNLESS OTHERWISE INDICATED CATCH BASIN AND LAWN DRAIN LEADS ARE 150mm DIA PVC.
4. ALL PVC PIPE MANUFACTURED BY ROYAL PIPE SYSTEMS.
5. ALL CONCRETE PIPE MANUFACTURED BY LANGLEY CONCRETE GROUP.
6. STORM AND SANITARY MANHOLES ARE 1050mm DIA UNLESS OTHERWISE INDICATED.

AS CONSTRUCTED



IMPORTANT:
HYDRO, GAS AND TELEPHONE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, TERASEN GAS AND TELUS FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING**. ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

Coquitlam
Record Drawing Number
D2538-06
S1895-06

InterCAD
CONSULTING ENGINEERS

NO.	DATE	REVISIONS	BY	APPROVED
3	10-12-22	As Constructed	J.B.R.	
2	08-05-07	Issued for Construction	B.E.	
1	08-03-14	Issued for Tender	B.E.	

Client: Wesbild

Project: David Avenue

Scale: 0 10 20 30 — 1:500

Design: R. SKAPSKI | Drawn: D. YOUNG

Plot Date: 12/22/2010 | Plot Time: 4:04:56 PM

Title: Storm and Sanitary Sewer — Reduced Construction

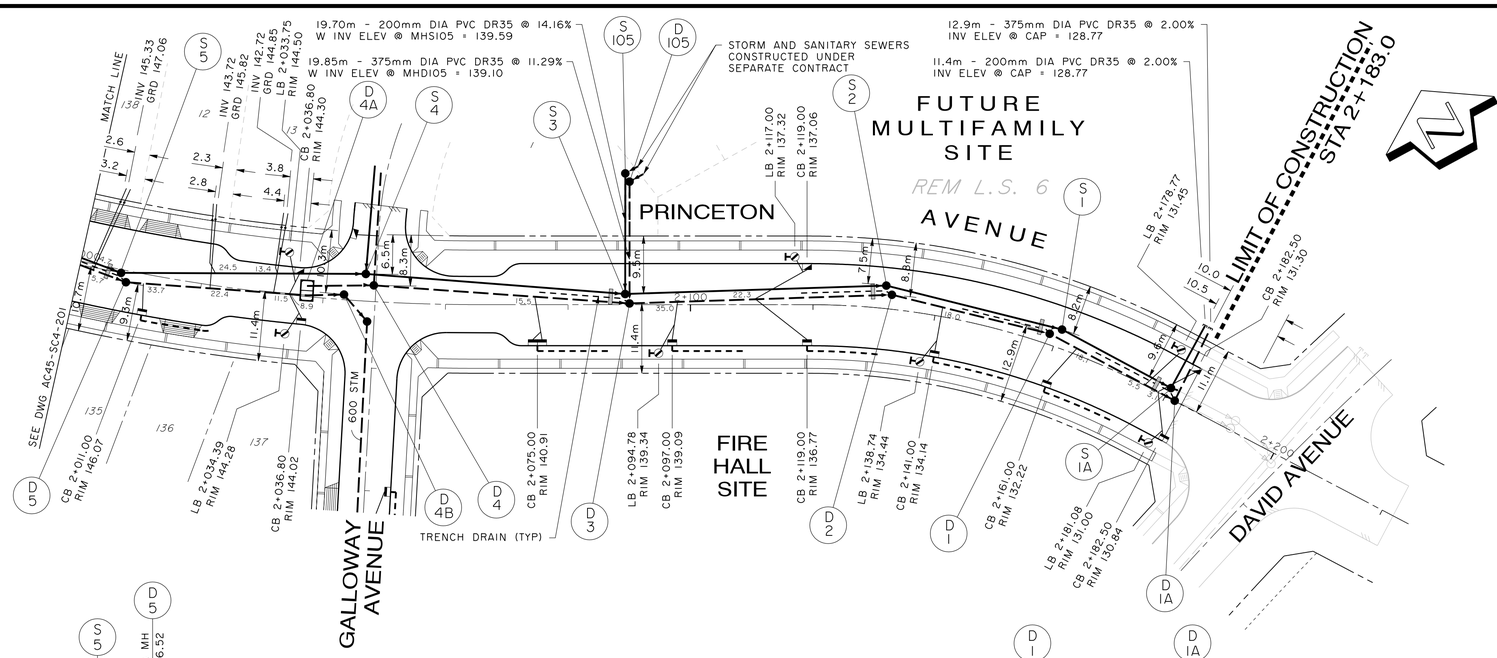
Drawing Number: AC45-DAR-204 | Revision: 3

I:\ac45\usin\DAVID-AVE\AS-BUILT\Reduced+Const\daR-204.dgn 12/22/2010 4:04:56 PM

IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

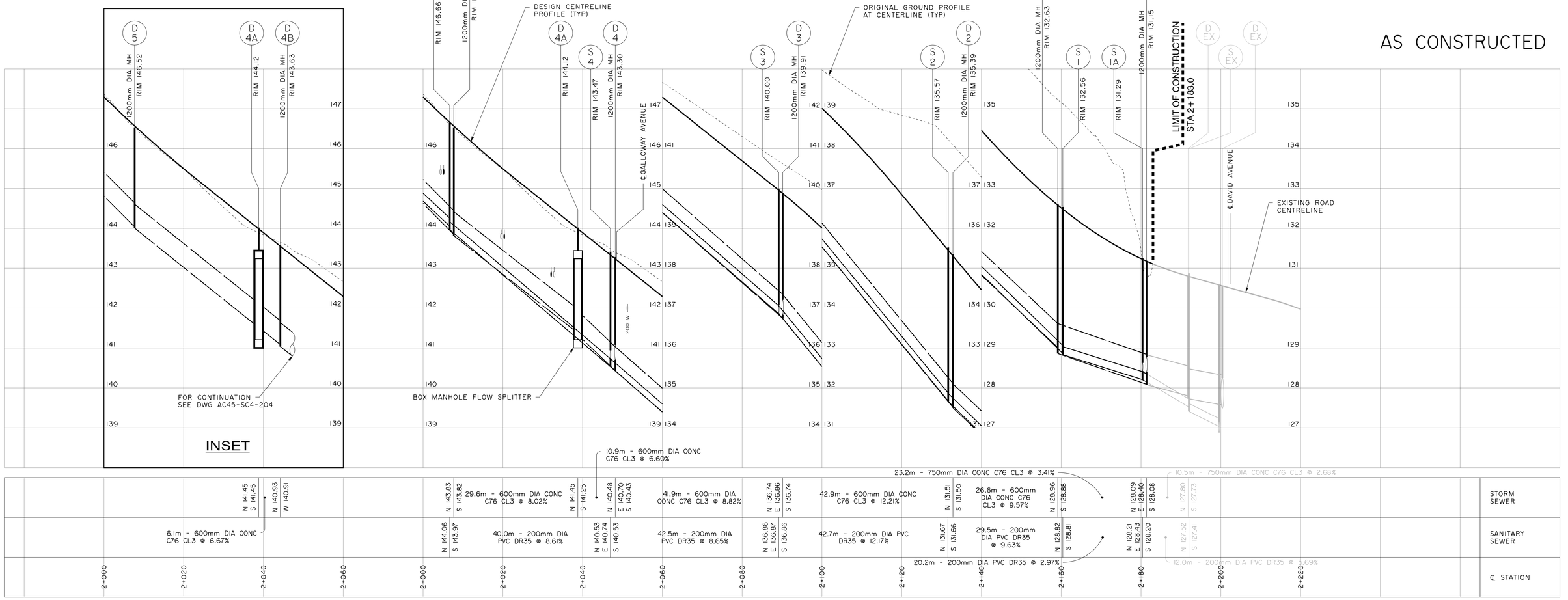
THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**



NOTES:

1. UNLESS OTHERWISE INDICATED STORM SERVICE CONNECTIONS ARE 150mm DIA PVC.
2. UNLESS OTHERWISE INDICATED SANITARY SERVICE CONNECTIONS ARE 100mm DIA PVC.
3. ALL PVC PIPE MANUFACTURED BY ROYAL PIPE.
4. ALL CONCRETE PIPE MANUFACTURED BY LANGLEY CONCRETE.
5. STORM AND SANITARY MANHOLES ARE 1050mm DIA UNLESS OTHERWISE INDICATED.
6. SERVICE CONNECTION OFFSETS SHOWN ON DRAWING INDICATE DISTANCE ALONG THE PROPERTY LINE FROM NEAREST LOT CORNER.

AS CONSTRUCTED



NO.	DATE	REVISIONS	BY	APPROVED
5	13-07-04	As Constructed	J.C.	
4	12-10-18	Issued for Construction	J.C.	
3	12-09-11	Second Submission for City Approval	J.C.	
2	12-07-26	Issued for Tender	J.C.	
1	12-06-20	First Submission for City Approval	J.C.	

InterCAD
CONSULTING ENGINEERS

Client: Wesbild

Project: Smiling Creek Neighbourhood
Development Parcel SC-4 - Phase One

Scale: 0 10 20 30 — 1:500

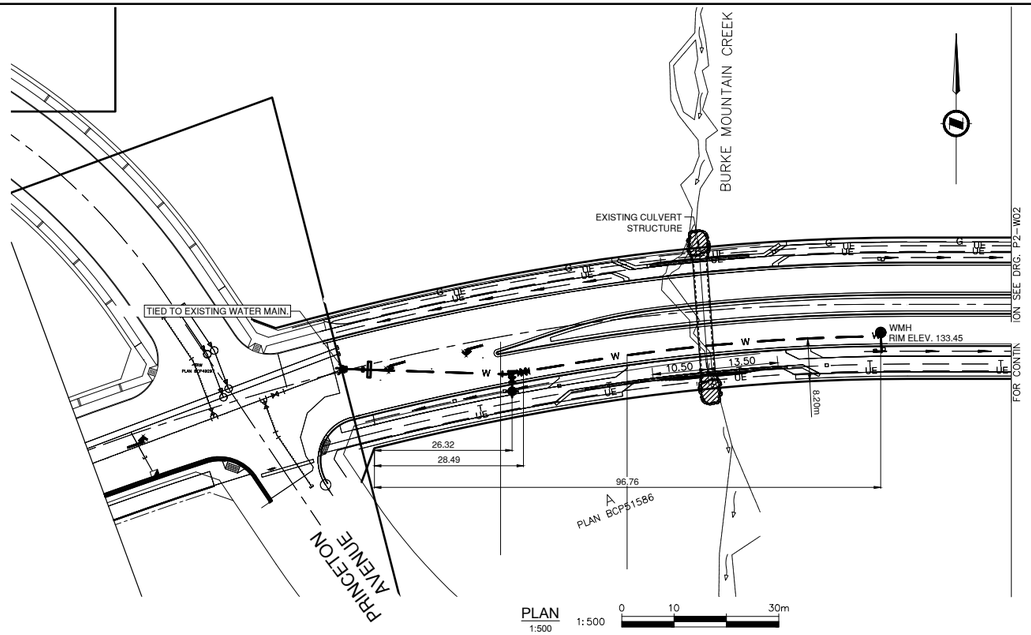
Design: J. CHEUNG | Drawn: M. CARREIRA

Plot Date: 3/6/2014 | Plot Time: 1:42:59 PM

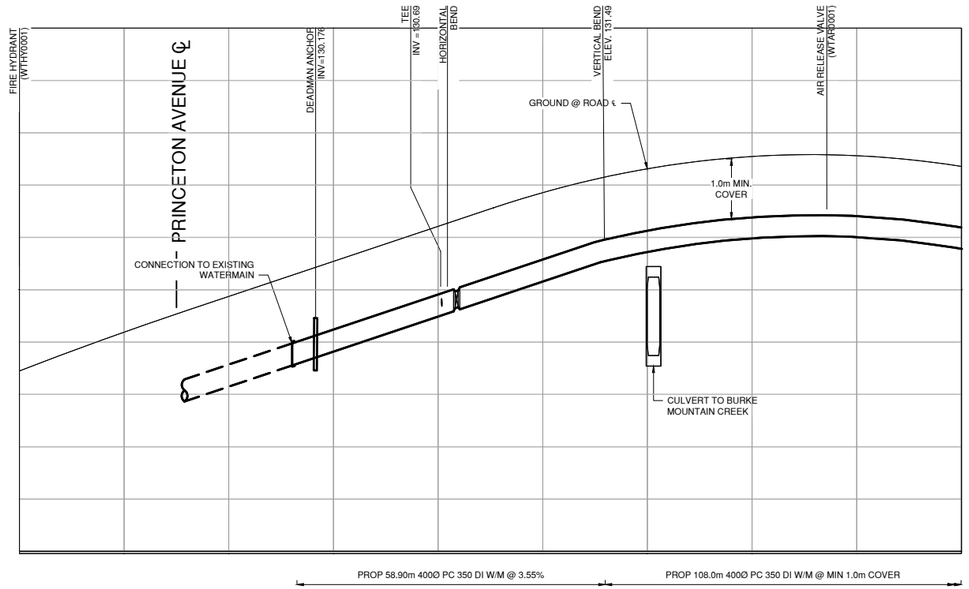
Title: Storm and Sanitary Sewer
Princeton Avenue
Sta. 1+178.1 to Sta. 2+000.0

Drawing Number: D2698-02 **S2002-02** | Revision: 5

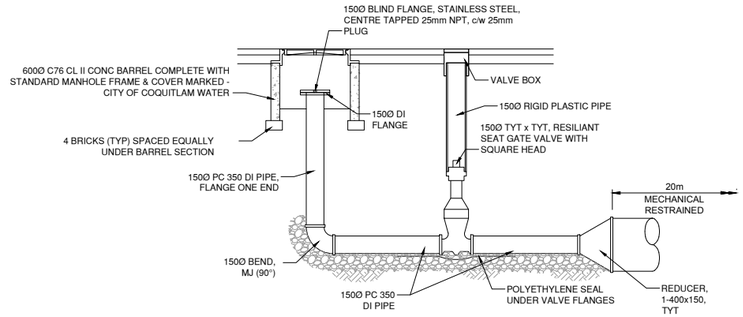
I:\ac45\ustn\smingerk\As-built\SC-4-Ph1\Drawings\SC4-202.dgn 3/6/2014 1:42:59 PM



PLAN
1:500 0 10 30m



PROFILE
HOR: 1:500 VER: 1:50



150Ø 50mm TEMP BLOW-OFF DETAIL
N.T.S.

IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

NOTES:
1. WATER MAINS SHALL BE DUCTILE IRON PC 350 CEMENT LINED TO AWWA C104.

2. CONCRETE THRUST BLOCKS SHALL BE INSTALLED AS PER MMCD 2009 ED. DWG. W1.

3. ALL TESTING AND CHLORINATION OF WATERLINES COMPLETED BY THE GENERAL CONTRACTOR AND WITNESSED BY THE CITY OF COQUITLAM. WATER MAIN TO BE SWABBED AS SPECIFIED IN CONTRACT DOCUMENTS.

4. FIRE HYDRANTS AS PER MMCD 2009 ED. DWG. W4.

5. ALL EXISTING SERVICES CAPPED BY THE ENGINEERING AND PUBLIC WORKS DEPARTMENT AT THE DEVELOPERS EXPENSE.

6. EXISTING UTILITY SERVICE CONNECTIONS ARE NOT SHOWN FOR CLARITY.

7. ELEVATIONS ARE DERIVED FROM CONTROL MONUMENT 2383 NORTHING = 2568.662, EASTING = 9014.163, ELEVATION = 131.177M, LOCATED AT NORTH EAST CORNER OF THE INTERSECTION OF DAVID AVENUE AND PRINCETON AVENUE.

BC 1 CALL CALL BEFORE YOU DIG!
1-800-474-6886
or by CELLULAR HERE
Vancouver Area 822-3648
CALL AT LEAST TWO FULL WORKING DAYS BEFORE YOU PLAN TO DIG

COQ. ASBUILT No.
W2165-01

PLOT DATE: January 16, 2017

Edge of pavement		Drainage sewer and MH	D	Sanitary sewer and MH	S	U/G signal/light duct	L
Asphalt curb		Drainage service, Cleanout	D_O	Sanitary service, Cleanout	S_O	Streetlight, davit	
Concrete sidewalk		Catch basin, top inlet		Sanitary sewer, forcemain	FS	Streetlight, post top	
Concrete curb		Catch basin, side inlet		U/G electrical duct and MH	E	Traffic signal pole	
Watermain and valve	W	Catch basin, round		Utility pole		Traffic signal post	
Water service box/curb stop	W	Swale		Utility pole with light		Traffic street sign	
Hydrant	H	Ditch		Junction box		Flasher	
Water 50mm BLOWoff	W	Culvert		U/G telephone and MH	T	Signal fixture	
Water air valve	W	Inlet/Outlet Structure		U/G gas main and valve	G	Combination traffic signal pole	

NO.	DATE	BY	REVISIONS	ENG.
7				
6				
5				
4				
3	----	----	----	----
2	----	----	----	----
1	2017-01-09	RL	ISSUED ASBUILT	TB

DESIGN BY DC	DATE 2017-01-09
DRAWN BY CW	DATE 2017-01-09
CHECKED BY DC	DATE 2017-01-09
APPROVED BY SR	DATE 2017-01-09

PARSONS
METROTOWER I, SUITE 21-300, 4710 KINGSWAY, BURNABY, BRITISH COLUMBIA, CANADA V5H 4M2
TEL: 604-438-51-300 FAX: 604-436-5350
www.parsons.com

Coquitlam
Engineering & Public Works
1-3000 Guildford Way, Coquitlam, B.C. V3B 7N2

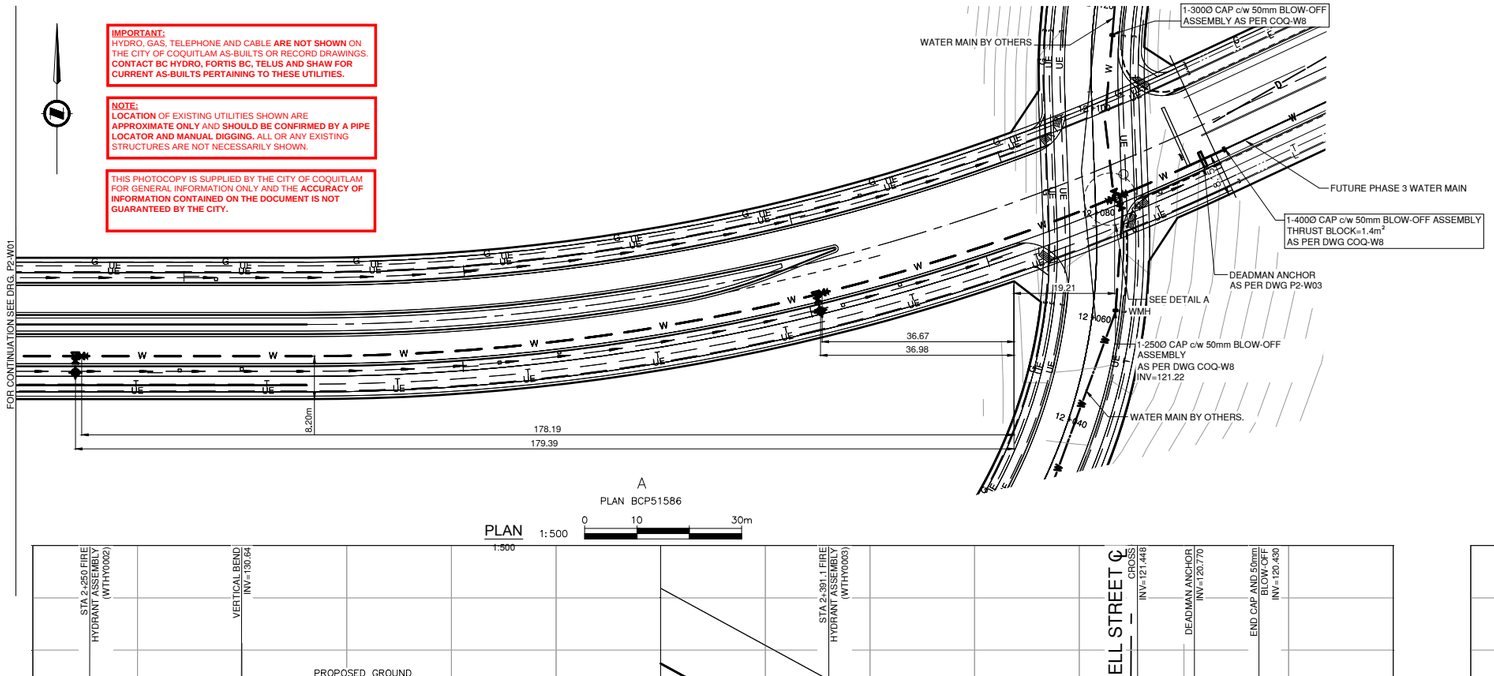
SCALE HORIZ. 1:500 SCALE VERT. 1:50
SHEET 1 OF 3
ENG PROJECT NUMBER 74031

PROJECT
DAVID AVENUE EXTENSION
STA. 2+090.070 TO STA. 2+240.000
DESCRIPTION
PHASE 2 - WATERMAIN P2-W01
File: TV1095TVA-P2-W01_03 AS BUILT

IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

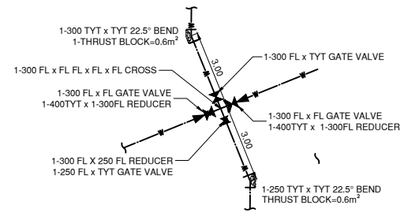
THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**



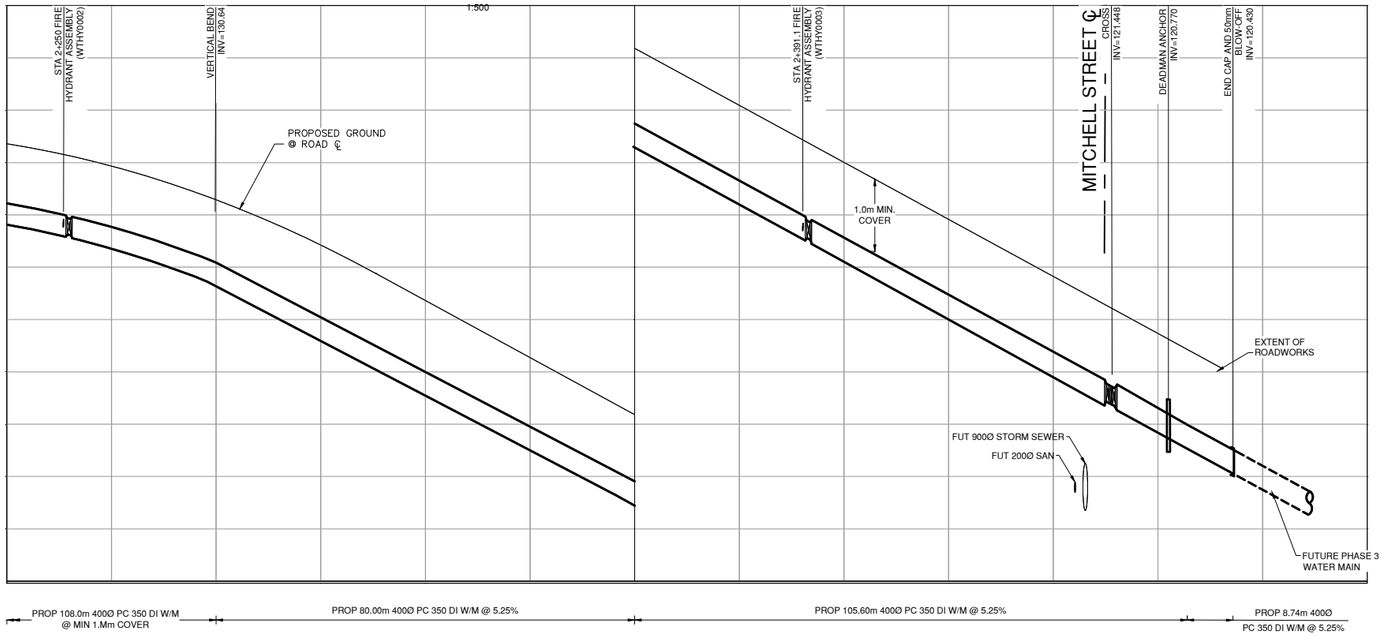
A
PLAN BCP51586

PLAN 1:500
0 10 30m

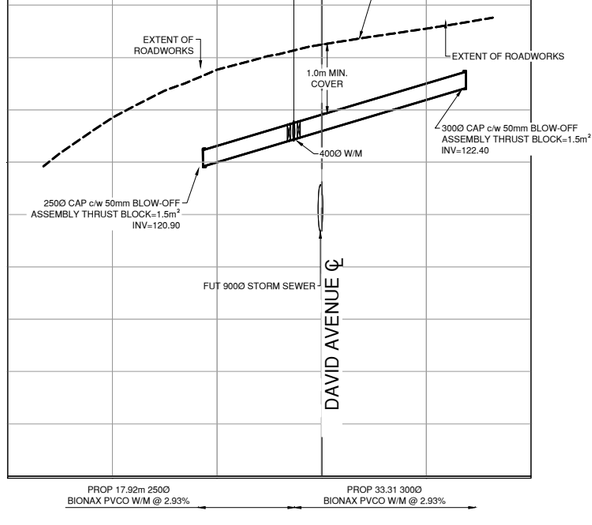
NOTES:
1. WATER MAINS SHALL BE DUCTILE IRON PC 350 CEMENT LINED TO AWWA C104.
2. CONCRETE THRUST BLOCKS SHALL BE INSTALLED AS PER MMCD 2009 ED. DWG. W1.
3. ALL TESTING AND CHLORINATION OF WATERLINES COMPLETED BY THE GENERAL CONTRACTOR AND WITNESSED BY THE CITY OF COQUITLAM. WATER MAIN TO BE SWABBED AS SPECIFIED IN CONTRACT DOCUMENTS.
4. FIRE HYDRANTS AS PER MMCD 2009 ED. DWG. W4.
5. ALL EXISTING SERVICES CAPPED BY THE ENGINEERING AND PUBLIC WORKS DEPARTMENT AT THE DEVELOPERS EXPENCE.
6. EXISTING UTILITY SERVICE CONNECTIONS ARE NOT SHOWN FOR CLARITY.
7. ELEVATIONS ARE DERIVED FROM CONTROL MONUMENT 2383 NORTHING = 2568.662, EASTING = 9014.163, ELEVATION = 131.177m, LOCATED AT NORTH EAST CORNER OF THE INTERSECTION OF DAVID AVENUE AND PRINCETON AVENUE.



DETAIL A
N.T.S.



PROFILE
HOR: 1:500 VER: 1:50



PROFILE (MITCHELL STREET)
HOR: 1:500 VER: 1:50

PLOT DATE: January 16, 2017

Edge of pavement		Drainage sewer and MH	D	Sanitary sewer and MH	S	U/G signal/light duct	L
Asphalt curb		Drainage service, Cleanout	D_D	Sanitary service, Cleanout	D_S	Streetlight, davit	
Concrete sidewalk		Catch basin, top inlet		Sanitary sewer, forcemain	FS	Streetlight, post top	
Concrete curb		Catch basin, side inlet		U/G electrical duct and MH	E	Traffic signal pole	
Watermain and valve	W	Catch basin, round		Utility pole		Traffic signal post	
Water service box/curb stop	W	Swale		Utility pole with light		Traffic street sign	
Hydrant	H	Ditch		Junction box		Flasher	
Water 50mm BLOWoff	W	Culvert		U/G telephone and MH	T	Signal fixture	
Water air valve	W	Inlet/Outlet Structure		U/G gas main and valve	G	Combination traffic signal pole	

NO.	DATE	BY	REVISIONS	ENG.
7				
6				
5				
4				
3	-----	-----	-----	-----
2	-----	-----	-----	-----
1	2017-01-09	RL	RECORD DRAWING	TB

DESIGN BY DC 2017-01-09
DRAWN BY CW 2017-01-09
CHECKED BY DC 2017-01-09
APPROVED BY SR 2017-01-09

PARSONS
METROTOWER I, SUITE 21-300, 4710 KINGSWAY, BURNABY, BRITISH COLUMBIA, CANADA V5H 4M2
TEL: 604-438-51-300 FAX: 604-436-5350
www.parsons.com

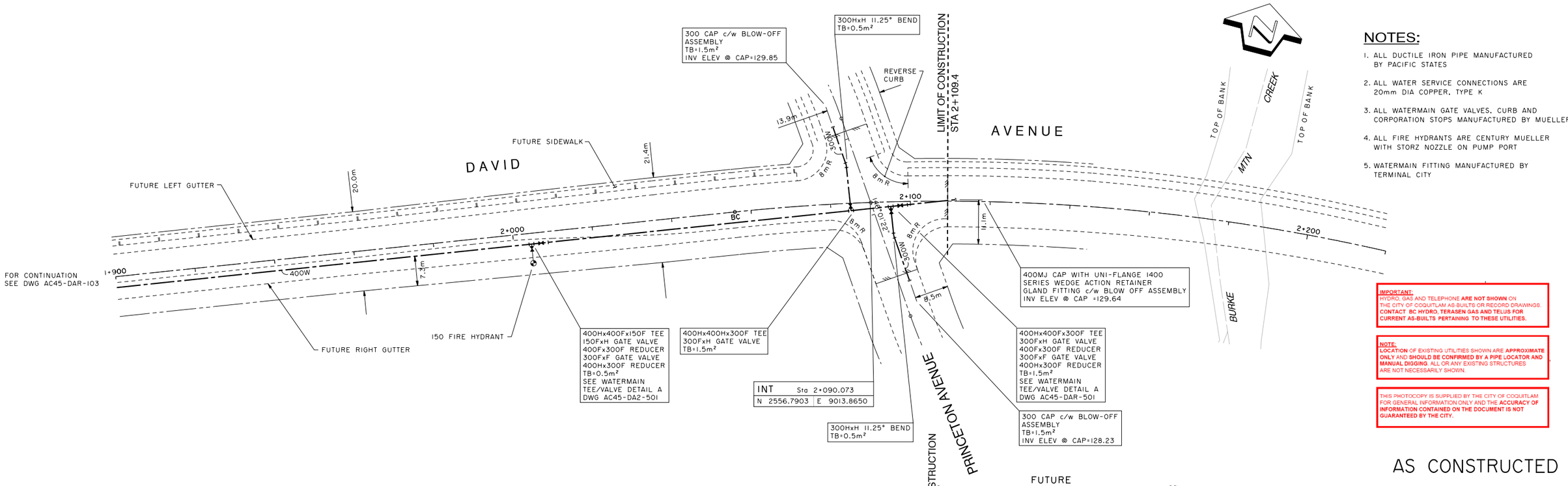
Coquitlam
Engineering & Public Works
1-3000 Guildford Way, Coquitlam, B.C. V3B 7N2

SCALE HORIZ. 1:500 SCALE VERT. 1:50
SHEET 2 OF 3
ENG PROJECT NUMBER 74031

PROJECT
DAVID AVENUE EXTENSION
STA. 2+240.000 TO STA. 2+471.333
DESCRIPTION
PHASE 2 - WATERMAIN P2-W02
File: TV1095TVA-P2-W01_03 AS BUILT

BC 1 CALL CALL BEFORE YOU DIG! 1-800-474-6886 or by CELLULAR HERE Vancouver Area 257-7840
CALL AT LEAST TWO FULL WORKING DAYS BEFORE YOU PLAN TO DIG

COQ. ASBUILT No.
W2165-02



NOTES:

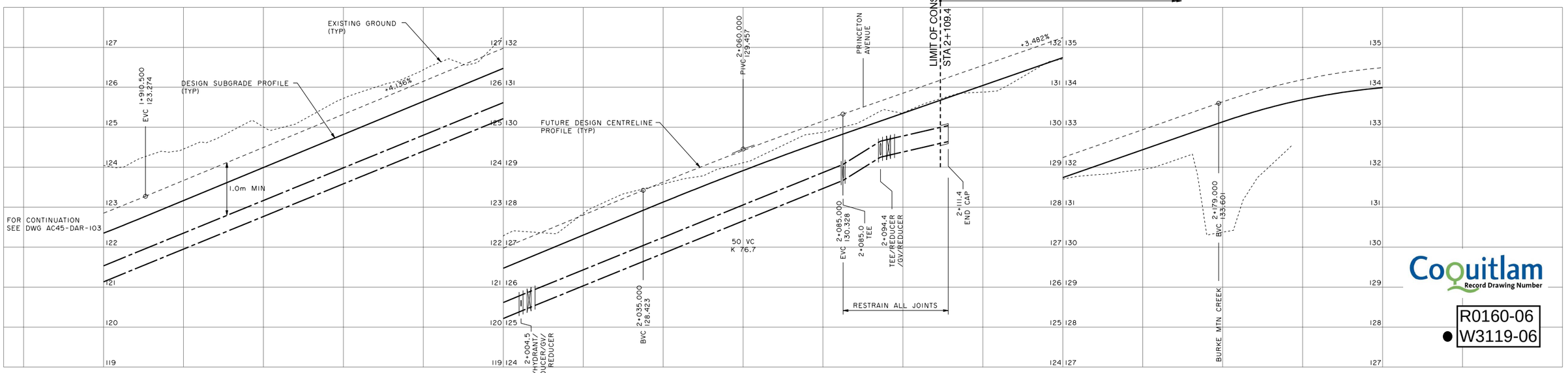
1. ALL DUCTILE IRON PIPE MANUFACTURED BY PACIFIC STATES
2. ALL WATER SERVICE CONNECTIONS ARE 20mm DIA COPPER, TYPE K
3. ALL WATERMAIN GATE VALVES, CURB AND CORPORATION STOPS MANUFACTURED BY MUELLER
4. ALL FIRE HYDRANTS ARE CENTURY MUELLER WITH STORZ NOZZLE ON PUMP PORT
5. WATERMAIN FITTING MANUFACTURED BY TERMINAL CITY

IMPORTANT:
HYDRO, GAS AND TELEPHONE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, TERASEN GAS AND TELUS FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING**. ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

AS CONSTRUCTED



400mm DIA CL50 DUCTILE IRON - ZONE 3											129.65 CAP									WATERMAIN
122.964	123.781	124.608	125.435	126.266	127.097	127.928	128.756	129.608	130.408	131.106	131.803	132.499	133.190	133.878	134.426	134.718			Lt. GUTTER EL.
122.850	123.667	124.494	125.321	126.148	126.976	127.803	128.628	129.416	130.152	130.850	131.547	132.243	132.940	133.636	134.191	134.490			CENTERLINE EL.
122.736	123.553	124.380	125.207	126.031	126.854	127.678	128.500	129.224	129.896	130.594	131.291	131.987	132.689	133.393	133.955	134.262			Rt. GUTTER EL.
1+900.0 +2.00%								2+050.0 +2.00%	2+070.0 +4.00%			2+145.0 +4.00%				2+220.0 +4.00%		L	PAVEMENT CROSSFALL
1+900.0 -2.00%								2+050.0 -2.00%	2+070.0 -4.00%			2+145.0 -4.00%				2+220.0 -4.00%		R	
1+900	1+920	1+940	1+960	1+980	2+000	2+020	2+040	2+060	2+080	2+100	2+120	2+140	2+160	2+180	2+200	2+220			℄ STATION

Coquitlam
Record Drawing Number
R0160-06
W3119-06

InterCAD
CONSULTING ENGINEERS

NO.	DATE	REVISIONS	BY	APPROVED
4	10-12-22	As Constructed	J.B.R.	
3	08-07-29	Revised Invert Elevation at Watermain Cap	B.E.	
2	08-05-07	Issued for Construction	B.E.	
1	08-03-14	Issued for Tender	B.E.	

Client: Wesbild

Project: David Avenue

Scale: 0 10 20 30 — 1:500

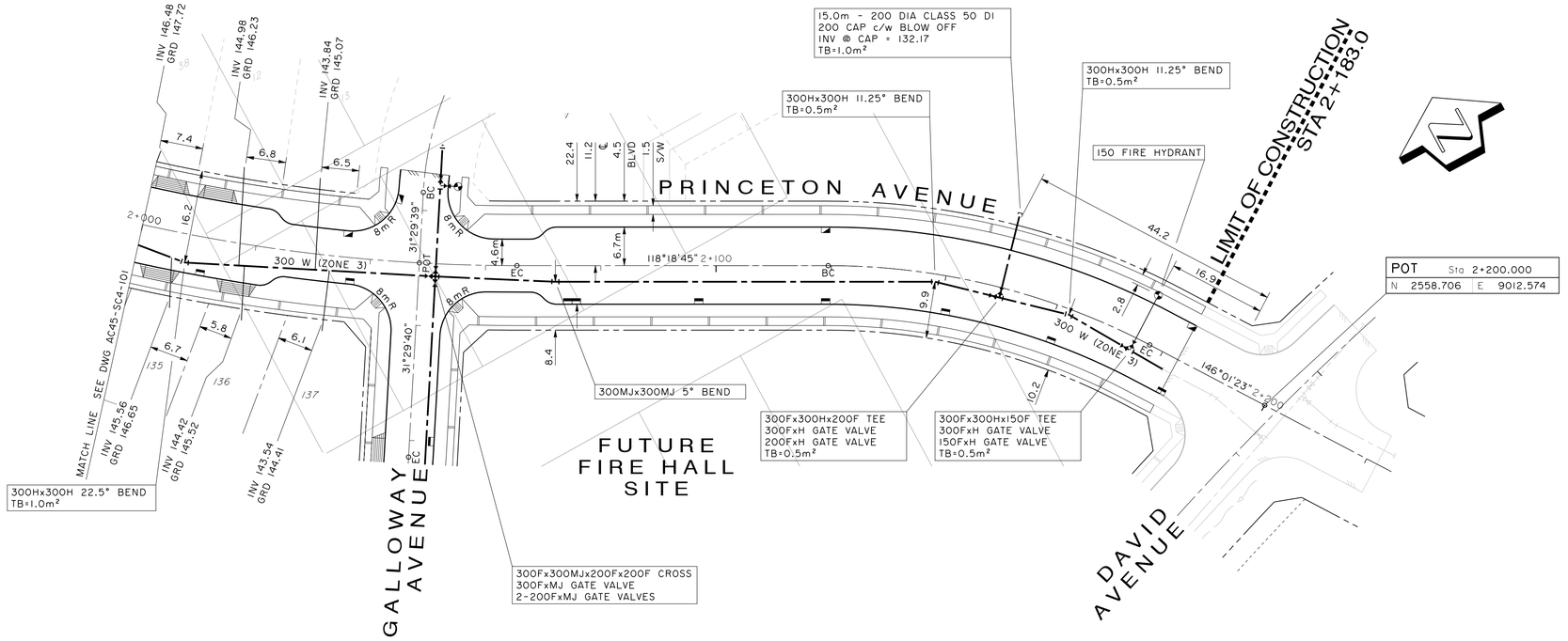
Design: R. SKAPSKI | Drawn: D. YOUNG

Plot Date: 12/22/2010 | Plot Time: 4:05:21 PM

Title: Roadworks and Watermain — Reduced Construction

Drawing Number: AC45-DAR-104 | Revision: 4

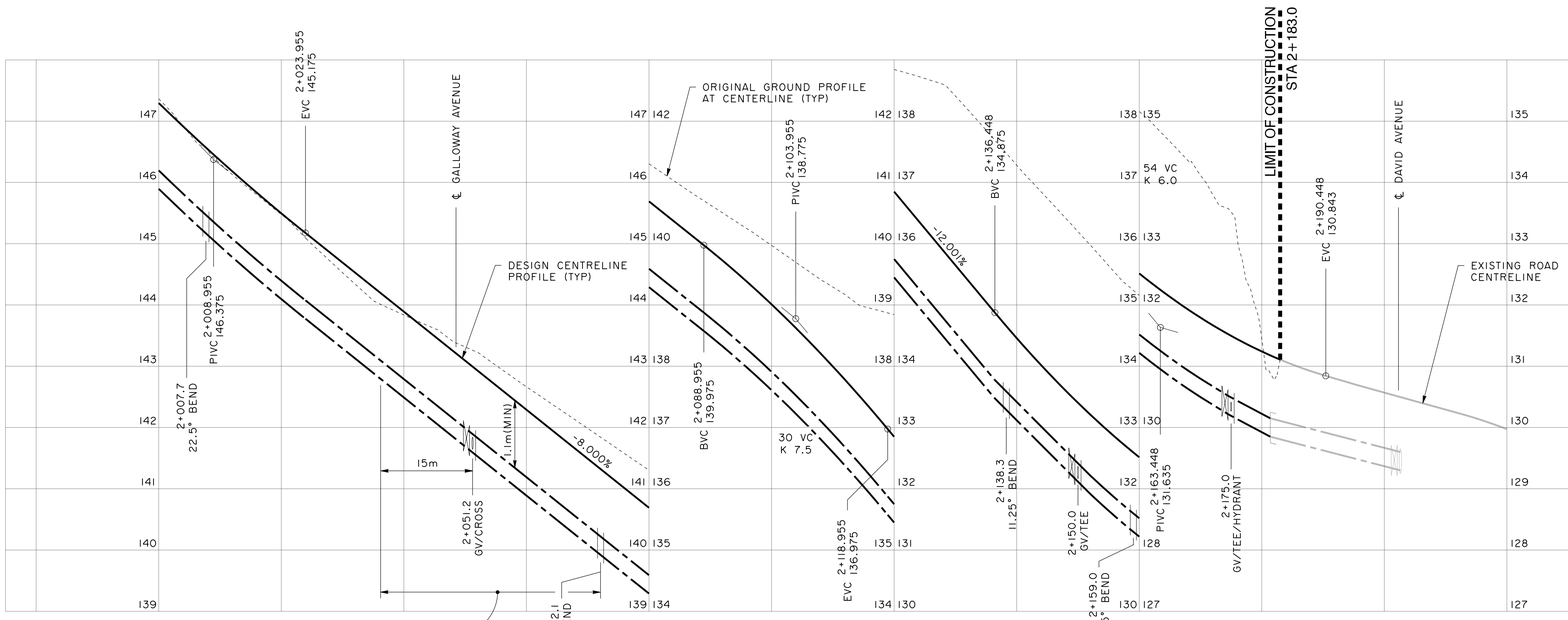
I:\ac45\ustn\DAVID-AVE\AS-BUILT\Reduced+Const\daR-104.dgn 12/22/2010 4:05:21 PM



NOTES:

1. ALL DUCTILE IRON PIPE MANUFACTURED BY CANADA PIPE COMPANY LTD.
2. ALL WATER SERVICE CONNECTIONS ARE 20mm DIA COPPER, TYPE K.
3. ALL WATERMAIN GATE VALVES MANUFACTURED BY CLOW CANADA.
4. ALL FIRE HYDRANTS ARE TERMINAL CITY C-71P MODEL WITH STORZ NOZZLE ON PUMP PORT.
5. CURB AND CORPORATION STOPS MANUFACTURED BY CAMBRIDGE BRASS.
6. SERVICE CONNECTION OFFSETS SHOWN ON DRAWING INDICATE DISTANCE ALONG THE PROPERTY LINE FROM NEAREST LOT CORNER.

AS CONSTRUCTED



147.430	145.630	143.983	142.383	140.825	139.144	136.984	134.593	132.648	131.375			Lt. GUTTER EL.
147.296	145.496	143.891	142.291	140.691	139.010	136.850	134.459	132.514	131.241	130.570		CENTERLINE EL.
147.162	145.362	143.799	142.199	140.557	138.876	136.716	134.325	132.380	131.107			Rt. GUTTER EL.

IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

InterCAD
CONSULTING ENGINEERS

NO.	DATE	REVISIONS	BY	APPROVED
5	13-07-04	As-Constructed	J.C.	
4	12-10-18	Issued for Construction	J.C.	
3	12-09-11	Second Submission for City Approval	J.C.	
2	12-07-26	Issued for Tender	J.C.	
1	12-06-20	First Submission for City Approval	J.C.	

Client: Wesbild

Project: Smiling Creek Neighbourhood
Development Parcel SC-4 - Phase One

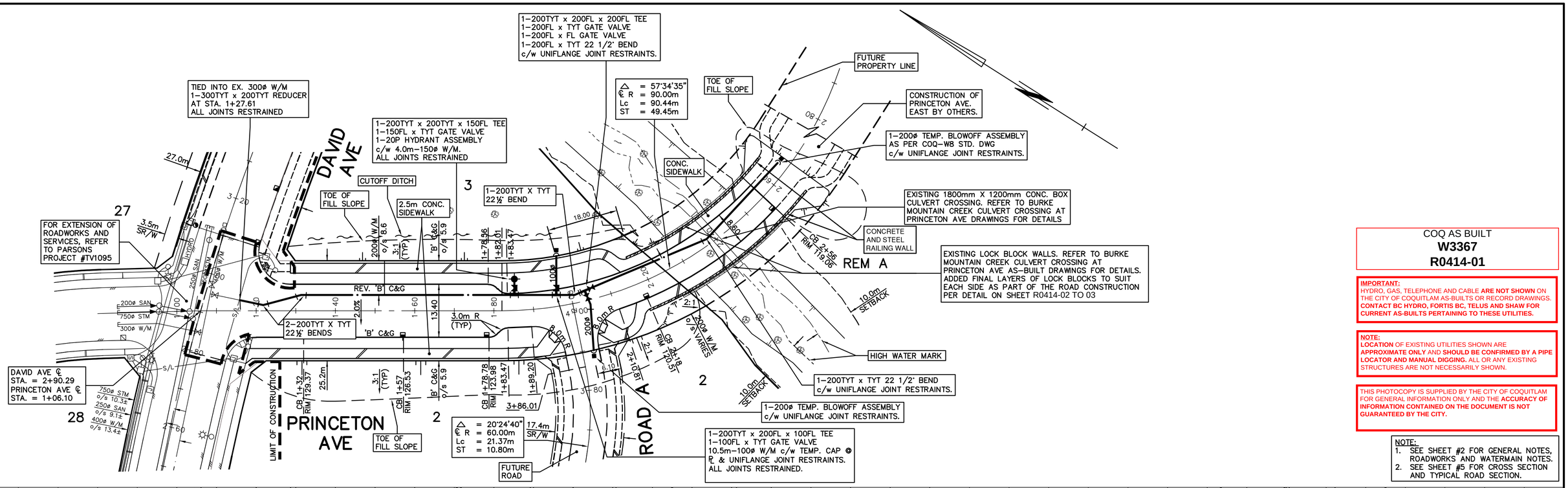
Scale: 0 10 20 30 — 1:500

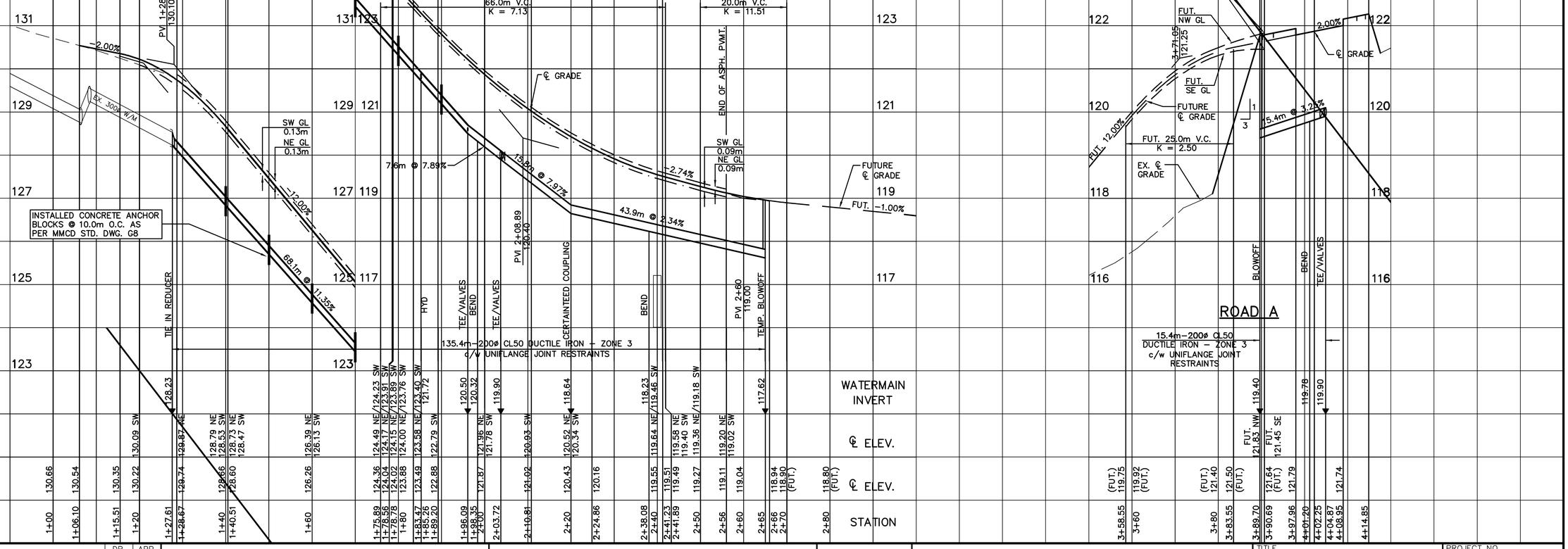
Design: J. CHEUNG | Drawn: B. FOLEY

Plot Date: 3/6/2014 | Plot Time: 1:39:44 PM

Title: Roadwoks and Watermain
Princeton Avenue
Sta. 2+000.0 to 2+183.0

Drawing Number: R0253-02 **W3239-02** | Revision: 5





COQ AS BUILT
W3367
R0414-01

IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

NOTE:
1. SEE SHEET #2 FOR GENERAL NOTES, ROADWORKS AND WATERMAIN NOTES.
2. SEE SHEET #5 FOR CROSS SECTION AND TYPICAL ROAD SECTION.

REV.	DATE		DR.	APP.
A	10.21.15	FIRST DESIGN SUBMISSION	M.L.	M.F.
B	10.12.16	REVISED AS PER CITY COMMENTS	P.L.B.	D.J.R.
C	04.03.17	REVISED AS PER CITY COMMENTS	M.L.	D.J.R.
D	04.20.17	REVISED AS PER CITY COMMENTS	M.L.	D.J.R.
E	04.24.17	ISSUED FOR TENDER	M.L.	D.J.R.
F	04.10.18	AS CONSTRUCTED DRAWING	V.M.	B.C.R

CLIENT
CITY OF COQUITLAM
3000 GUILFORD WAY, COQUITLAM, BC V3B 7N2
PH : 604–927–3504 , FAX : 604–927–3505

PROJECT PRINCETON AVE. SOUTH OF DAVID AVE., COQUITLAM, BC

DRAWING TITLE
ROADWORKS & WATERMAIN
PRINCETON AVE

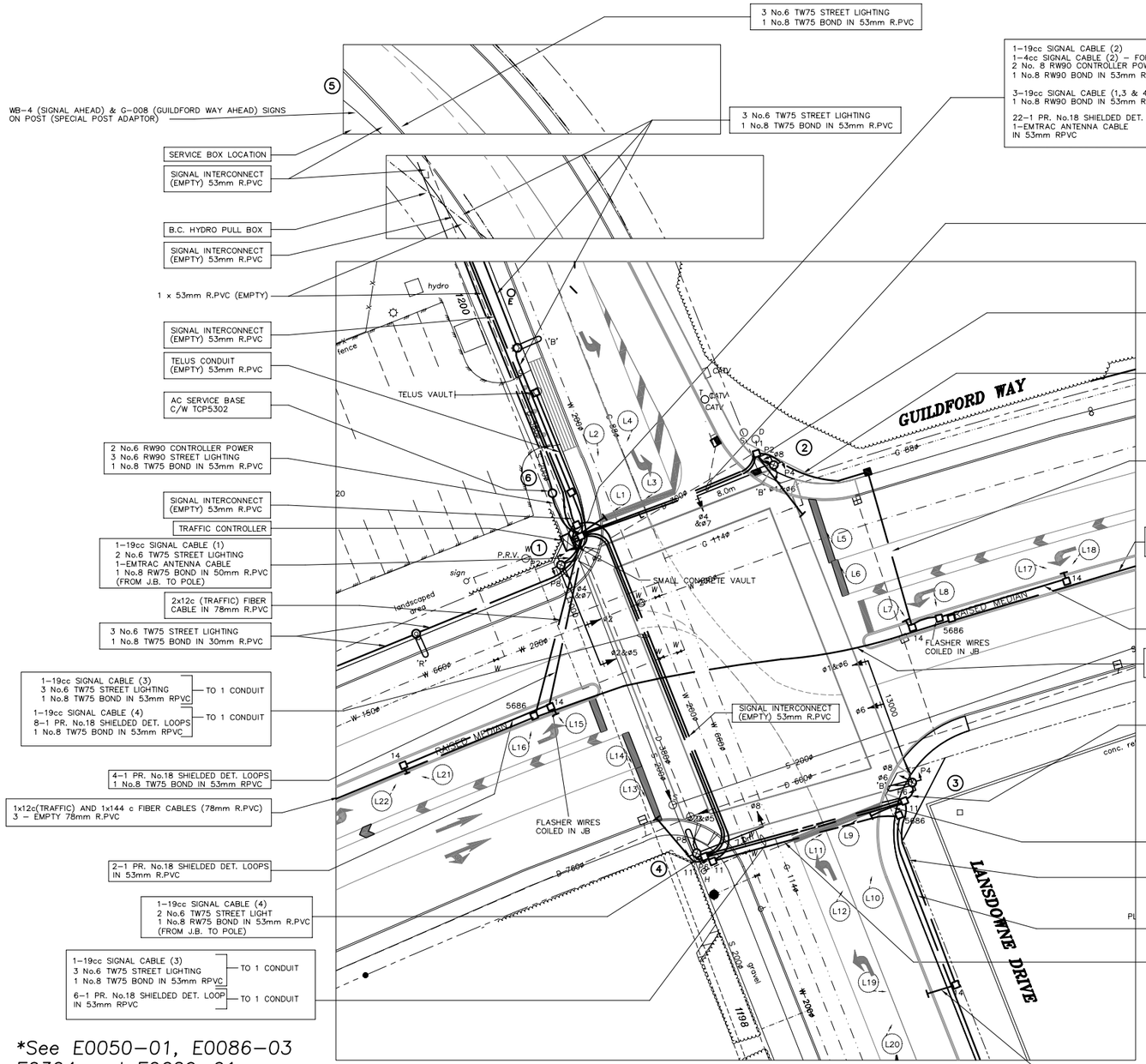
WSP CANADA INC.
#300 - 65 RICHMOND STREET
NEW WESTMINSTER, B.C.
CANADA V3L 5P5
TEL. 604-525-4651 | FAX. 604-525-5715
WWW.WSPGROUP.COM

TITLE: ROADWORKS & WATERMAIN		PROJECT NO. 60257	
SCALE: HORZ. 1:500 VERT. 1:50	DATE: SEP., 2015	DRAWING NO.	
DRAWN: M.L.	FB. PG.	SHEET NO. 3 OF 10	
DESIGN: M.F.	CHECKED: D.J.R.	JOB NO. 161–00097–00	

THIS DRAWING REMAINS THE PROPERTY OF WSP CANADA INC. AND ITS REPRODUCTION OR USE WITHOUT WRITTEN PERMISSION IS PROHIBITED.
DESTROY PRINTS OF THIS DRAWING BEARING PREVIOUS LETTERS

As Built Record Drawings -

Guildford Way and Lansdowne Drive



SITE PLAN
1:250

*See E0050–01, E0086–03 E0304 and E0629–01 &–02 for earlier street lighting along Guildford

*See also E0992–02/C0119–02 for Comm. Duct Installation along Guildford

Note:
Location of existing utilities shown are approximate and should be confirmed by pipe locator and manual digging. All or any existing structures are not necessarily shown.

LEGEND

- COMBINATION TRAFFIC SIGNAL POLE
- PEDESTAL TRAFFIC SIGNAL POLE
- EXISTING STREET LIGHT
- ADVANCE WARNING SIGN/POLE
- 11 PROPOSED PLASTIC ROUND JUNCTION BOX (C/W BONDED STEEL LID) No. DENOTES TYPE
- EXISTING JUNCTION BOX
- A&C LUMINAIRE ON BLACK PHASE CONDUCTOR
- B&D LUMINAIRE ON RED PHASE CONDUCTOR
- 2 VEHICLE PHASE
- P2 PEDESTRIAN PHASE
- B.C. HYDRO POLE
- TRAFFIC CONTROLLER
- SERVICE PANEL
- PROPOSED CONDUIT
- EXISTING CONDUIT
- L9 2m ROUND VEHICLE DETECTOR LOOP

COLOUR CODING (MULTICONDUCTOR SIGNAL CABLE)

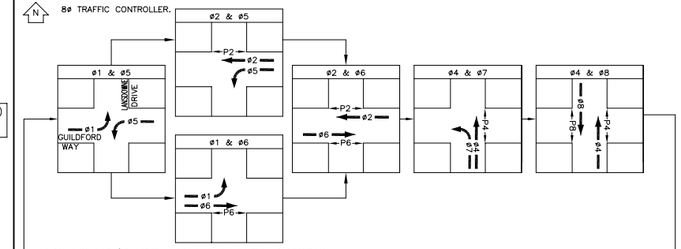
19 CONDUCTOR No.14, CSA SPEC. No.C22.2 – No. 239–97 CABLE IN CONDUIT
SOLID CONDUCTORS –– (COLOUR CODING CHART)

CABLE NUMBER REPRESENTS DESTINATION POLE

CONDUCTOR No.	SIGNAL ASSIGNMENT	LETTERING	CONDUCTOR COLOUR
1	NEUTRAL	WHITE ONE	WHITE
2	PB RETURN	WHITE TWO	WHITE
3	PRIMARY PB	––	BLACK
4	SECONDARY PB	––	ORANGE
5	PRIMARY RED	RED ONE	RED
6	SECONDARY RED	RED TWO	RED
7	SPARE	RED THREE	RED
8	PRIMARY PED DW	RED FOUR	RED
9	SECONDARY PED DW	RED FIVE	RED
10	PRIMARY AMBER	AMBER ONE	YELLOW
11	SECONDARY AMBER	AMBER TWO	YELLOW
12	PRIMARY LT AMBER	AMBER THREE	YELLOW
13	SECONDARY LT AMBER	AMBER FOUR	YELLOW
14	SECONDARY WALK	AMBER FIVE	YELLOW
15	PRIMARY GREEN	GREEN ONE	BLUE
16	SECONDARY GREEN	GREEN TWO	BLUE
17	PRIMARY LT GR ARROW	GREEN THREE	BLUE
18	SECONDARY LT GREEN	GREEN FOUR	BLUE
19	PRIMARY WALK	GREEN FIVE	BLUE

This photocopy is supplied by the City of Coquitlam for general information only and the accuracy of the information contained on the document is in no way guaranteed by the City.

SIGNAL SEQUENCE



PROTECTED/PERMITTED LEFT TURN PHASING

*SUPERCEDES
E0400–01/C0039–01

I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THESE WORKS ARE COMPLETE AND WERE CONSTRUCTED AS ON THIS 'RECORD DRAWING'.

LCP SIGNAL MANAGEMENT INC.

SIGNED : Larry C. Parks

DATE :

Coquitlam Record Drawing No.
E0936–01TS
● C0058–01

LCP Signal Management Inc.
1447 Gabriola Drive
Coquitlam, B.C.
V3E 2C6
Ph: (604)–942–3631
Fax: (604)–945–9809

LEGEND

	EXISTING	PROPOSED
Edge of pavement		
Asphalt curb		
Concrete sidewalk		
Concrete curb		
Watermain and valve		
Watermain, capped end		
Hydrant		
Water blowoff		
Water temporary blowoff		
Drainage sewer and MH		
Drainage sewer capped end		
Catch basin, top inlet		
Catch basin, side inlet		
Catch basin, round		
Swale		
Ditch		
Culvert		
Inlet Structure		
Sanitary sewer and MH		
Sanitary sewer, capped end		
Sanitary sewer, forcemain		
U/G electrical duct and MH		
Utility pole		
Utility pole with light		
Junction box		
U/G telephone and MH		
U/G gas main and valve		
U/G signal/light duct		
Streetlight, davit		
Streetlight, post top		
Traffic signal pole		
Traffic signal post		
Traffic controller		
Service box		
Signal fixture		
Traffic street sign		

REV. No.	DATE	REVISION
6	MAR 01/05	RECORD DRAWING
5	MAY 25/04	ISSUED FOR CONSTRUCTION
4	MAY 5/04	ADD NORTHBOUND PRO/PER LEFT TURN
3	JAN25/04	RECORD DRAWING
2	SEP20/01	ISSUED FOR TENDER
1	AUG28/01	SIGNAL MODS PRELIM DESIGN REVIEW
–	JAN 2001	UPDATE DRAWING TO NEW FORMAT

Destroy All Prints Bearing Rev. No. less than one indicated above

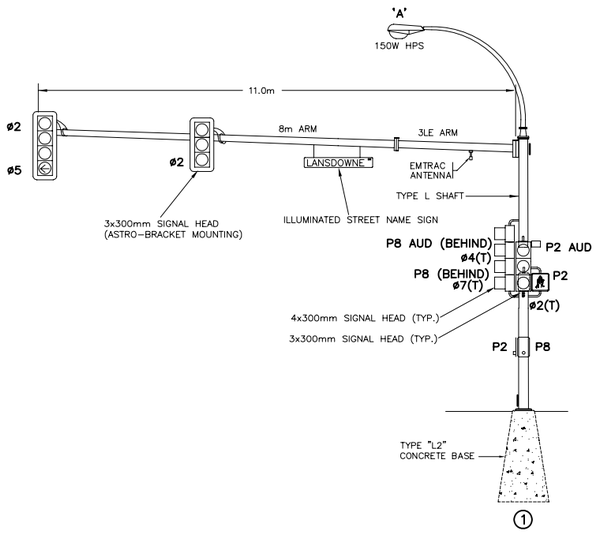
CITY OF COQUITLAM — Operations

DESIGNED – L.C.P.
DRAWN – L.C.P.
METRIC SCALE – 1:250
CHECKED – L.R.M.
DATE – JAN 08/01

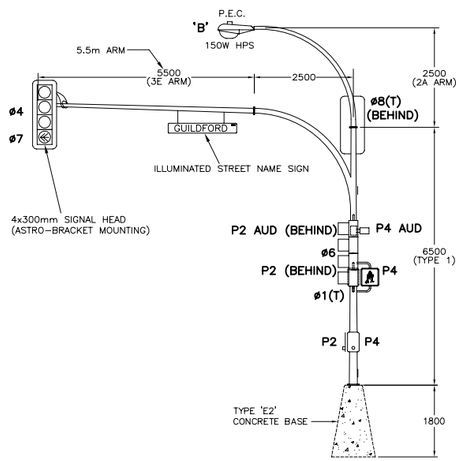
TRAFFIC SIGNAL UPGRADE GUILDFORD WAY @ LANSDOWNE DRIVE PLAN VIEW

DWG FILE: PJ2004–29
SHEET 1 OF 2
REVISION NO. 6

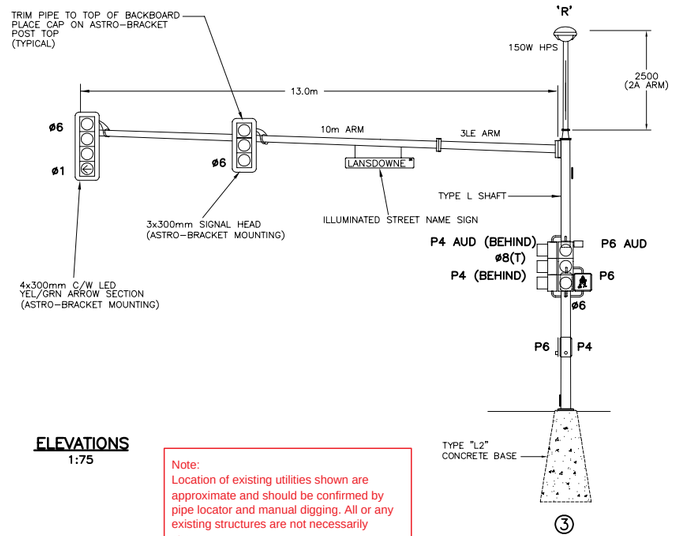
ACAD Lans–Guild Signal Sht 1 Add LT–RECORD.dwg MAR 01, 2005 16:20 LCP



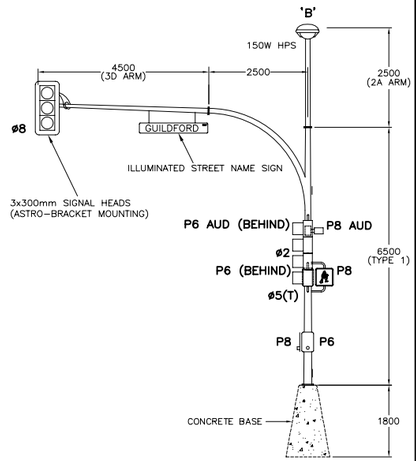
①



②



③

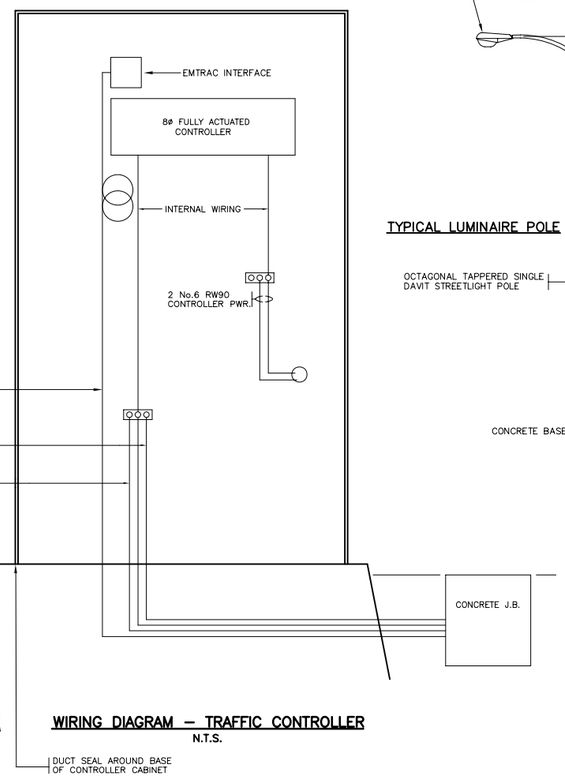


④

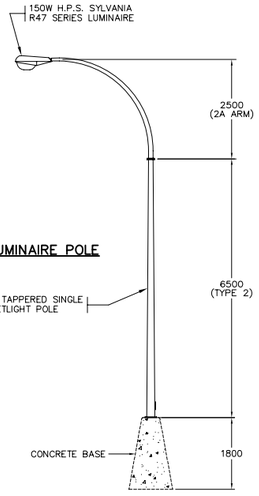
ELEVATIONS
1:75

Note:
Location of existing utilities shown are approximate and should be confirmed by pipe locator and manual digging. All or any existing structures are not necessarily shown.

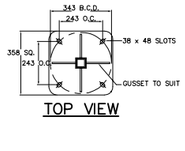
This photocopy is supplied by the City of Coquitlam for general information only and the accuracy of the information contained on the document is in no way guaranteed by the City.



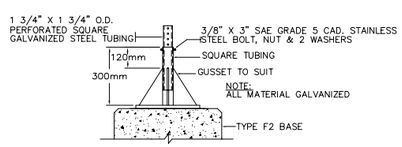
WIRING DIAGRAM – TRAFFIC CONTROLLER
N.T.S.



TYPICAL LUMINAIRE POLE

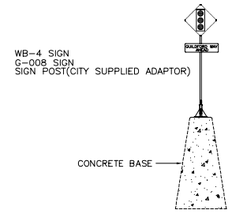


TOP VIEW

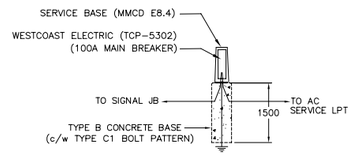


SIDE VIEW

TYPE F2 BASE/SIGN POST ADAPTOR DETAIL
N.T.S.



⑤



⑥

CHECK BEFORE YOU DIG

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH OCCUR DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

*SUPERCEDES
E0400-02/C0039-02

Coquitlam Record Drawing No.
E0936-02TS
•C0058-02

I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THESE WORKS ARE COMPLETE AND WERE CONSTRUCTED AS ON THIS 'RECORD DRAWING'.

LCP SIGNAL MANAGEMENT INC.

SIGNED : _____
Larry C. Parks

DATE : _____

LCP Signal Management Inc.
1447 Gabriola Drive
Coquitlam, B.C.
V3E 2C6
Ph: (604)-942-3631
Fax: (604)-945-9809

REV. No.	DATE	REVISION
6	MAR 01/05	RECORD DRAWING
5	MAY 25/04	ISSUED FOR CONSTRUCTION
4	MAY 5/04	ADD NORTHBOUND PRO/PER LEFT TURN
3	JAN25/04	RECORD DRAWING
2	SEP20/01	ISSUED FOR TENDER
1	AUG28/01	SIGNAL MODS PRELIM DESIGN REVIEW
–	JAN 2001	UPDATE DRAWING TO NEW FORMAT

Destroy All Prints Bearing Rev. No. less than one indicated above

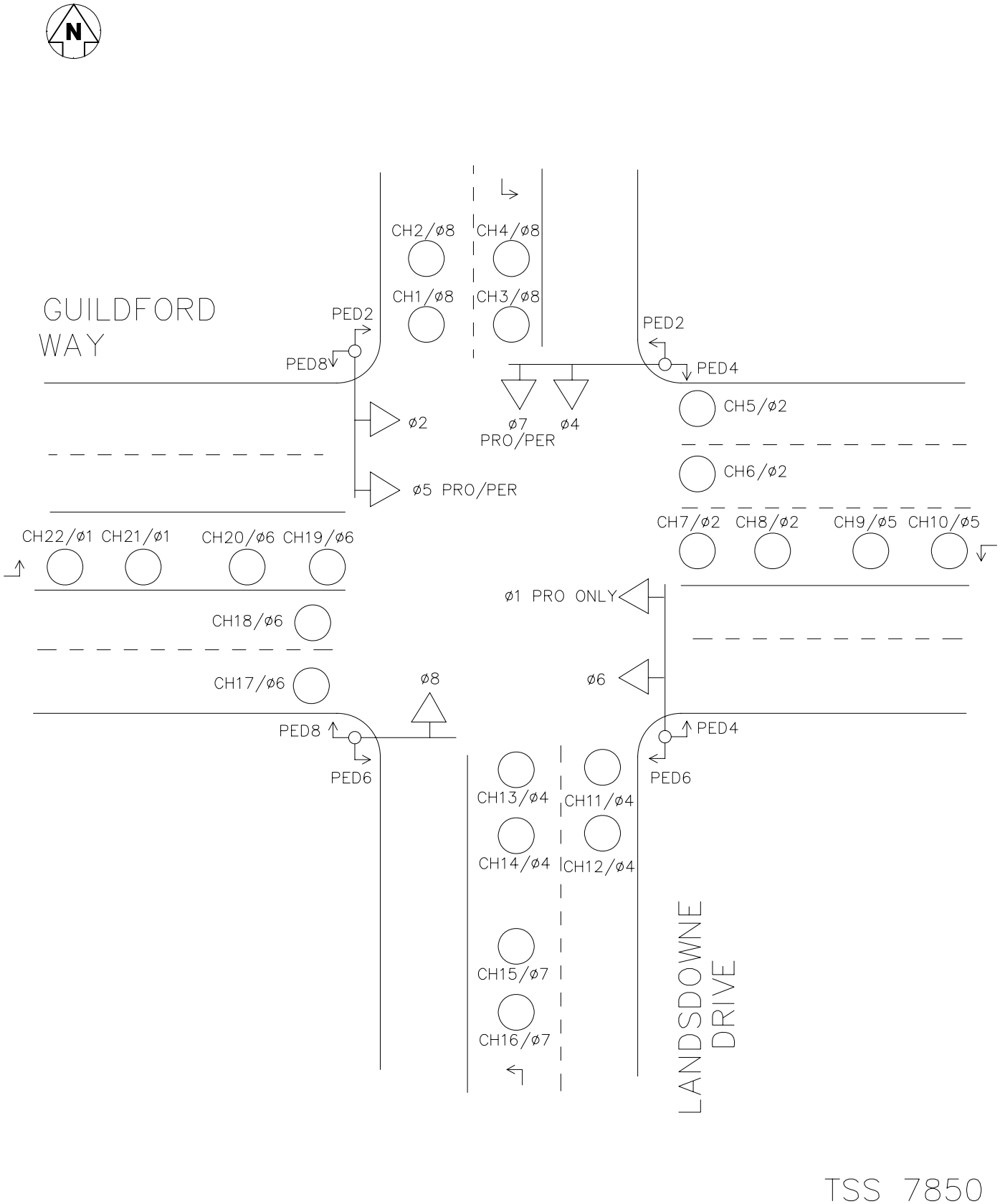
CITY OF COQUITLAM — **Operations**

TRAFFIC SIGNAL UPGRADE GUILDFORD WAY @ LANSDOWNE DRIVE DETAILS

DESIGNED – L.C.P.
DRAWN – L.C.P.
METRIC SCALE – N.T.S.
CHECKED – L.R.M.
DATE – JAN 08/01

DWG FILE: PJ2004-29
SHEET 2 OF 2
REVISION NO. 6

ACAD Lans-Guild Signal Sht 2 Add LT-RECORD.dwg MAR 01, 2005 17:00

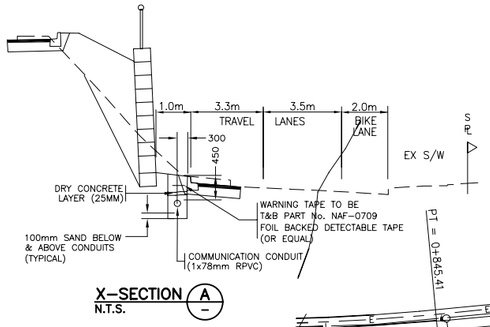


TSS 7850

LCP Signal Management Inc.
1447 Gabriola Drive
Coquitlam, B.C.
V3E 2C6
Ph: 604-942-3631
Fax: 604-945-9809

CITY OF COQUITLAM
Intersection Graphics – Basic Design Layout
GUILDFORD WAY @ LANSDOWNE DR

Guildford@Lansdowne-Basic TSS7850.dwg LCP Apr 08, 2006 11:00

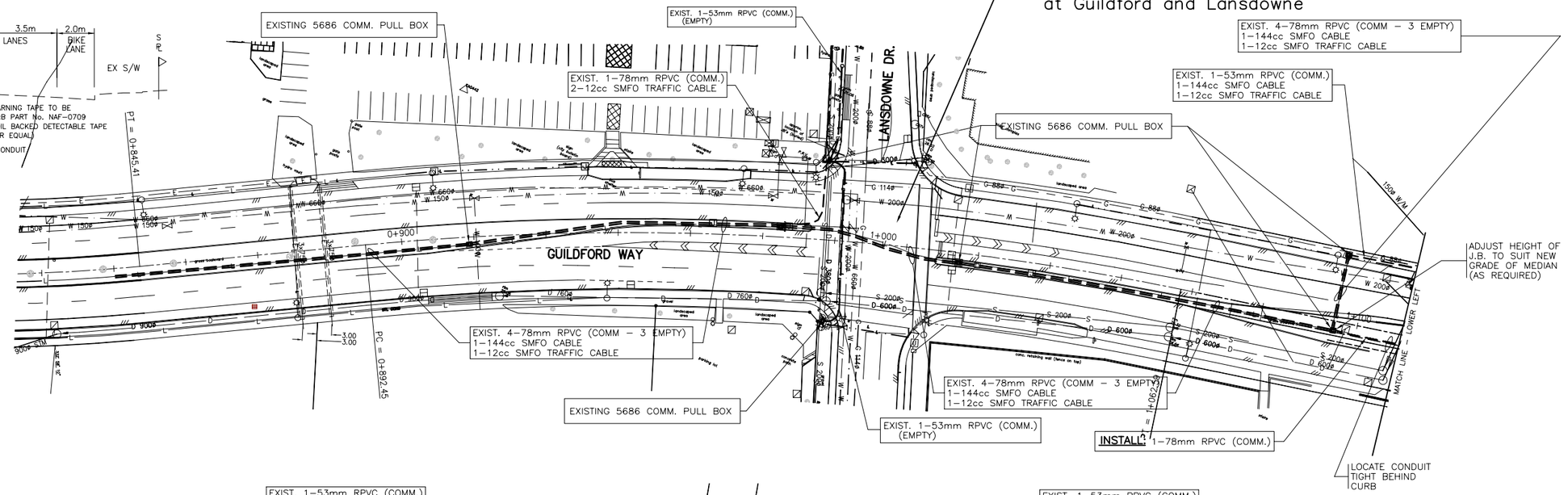


X-SECTION A
N.T.S.

IMPORTANT:
HYDRO GAS AND TELEPHONE **ARE NOT LOCATED** ON THE CITY OF COQUITLAM AS-BUILTS.
CONTACT BC HYDRO, BC GAS AND TELUS FOR CURRENT AS-BUILTS PERTAINING TO THESE UTIILITES.

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN **ARE APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING**. ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND **THE ACCURACY OF THE INFORMATION CONTAINED ON THE DOCUMENT IS NO WAY GUARANTEED BY THE CITY.**



LEGEND

- EXISTING TOWN CENTRE STYLE DAVIT TRAFFIC SIGNAL POLE
- EXISTING TOWN CENTRE STYLE PEDESTAL TRAFFIC SIGNAL POLE
- EXISTING STREET LIGHT (REMAINS AS IS)
- EXISTING DAVIT STREETLIGHT TO BE RELOCATED
- EXISTING DAVIT STREETLIGHT TO REMAIN AS IS
- PROPOSED 5686 COMM. BOX
- EXISTING 5686 COMM. BOX
- EXISTING JUNCTION BOX No. DENOTES TYPE
- PROPOSED JUNCTION BOX - No. DENOTES TYPE
- TRAFFIC CONTROLLER
- SERVICE PANEL
- EXISTING ELECTRICAL CONDUIT
- PROPOSED ELECTRICAL CONDUIT
- EXISTING COMMUNICATIN CONDUIT
- PROPOSED COMMUNICATION CONDUIT
- LX 1.8m ROUND VEHICLE DETECTOR LOOP

ALL UTILITY LOCATIONS ARE APPROXIMATE AND FINAL CONFIRMATION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR PRIOR TO ANY EXCAVATION.

	EXISTING	PROPOSED		EXISTING	PROPOSED		EXISTING	PROPOSED		EXISTING	PROPOSED
Edge of pavement			Drainage sewer and MH	D	D	Sanitary sewer and MH	S	S	U/G signal/light duct	L	L
Asphalt curb			Drainage service		D	Sanitary service		S	Streetlight, davit		
Concrete sidewalk			Catch basin, top inlet			Sanitary sewer, forcemain	FS	FS	Streetlight, post top		
Concrete curb			Catch basin, side inlet			U/G electrical duct and MH	E	E	Traffic signal pole		
Watermain and valve	W	W	Catch basin, round			Utility pole			Traffic signal post		
Water service box/curb stop	W	W	Swale			Utility pole with light			Traffic street sign		
Hydrant	H	H	Ditch			Junction box			Flasher		
Water blowoff	W	W	Culvert			U/G telephone and MH	T	T	Signal fixture		
Water air valve	W	W	Inlet/Outlet Structure			U/G gas main and valve	G	G	Combination traffic signal pole		

*Replaces E0992-02/C0119-02 by LCP, Sep/02

SITE PLAN
0 1:500 20

COQUITLAM RECORD DRAWING NO
E0996-01
•C0123-01

2005 GUILFORD WAY BIKEWAY PROJECT
SHEET 1 OF 7

Coquitlam Record Drawing Number

LCP Signal Management Inc.
1447 Gabriola Drive
Coquitlam, B.C.
V3E 2C6
Ph: (604)-942-3631
Fax: (604)-945-9809

REV. No.	DATE	REVISION
6		
5		
4		
3		
2		
1	FEB. 22/05	ISSUED FOR TENDER (COMM DUCT REDUCED TO 1x78)
–	FEB. 8/05	ISSUED FOR TENDER

Destroy All Prints Bearing Rev. No. less than one indicated above

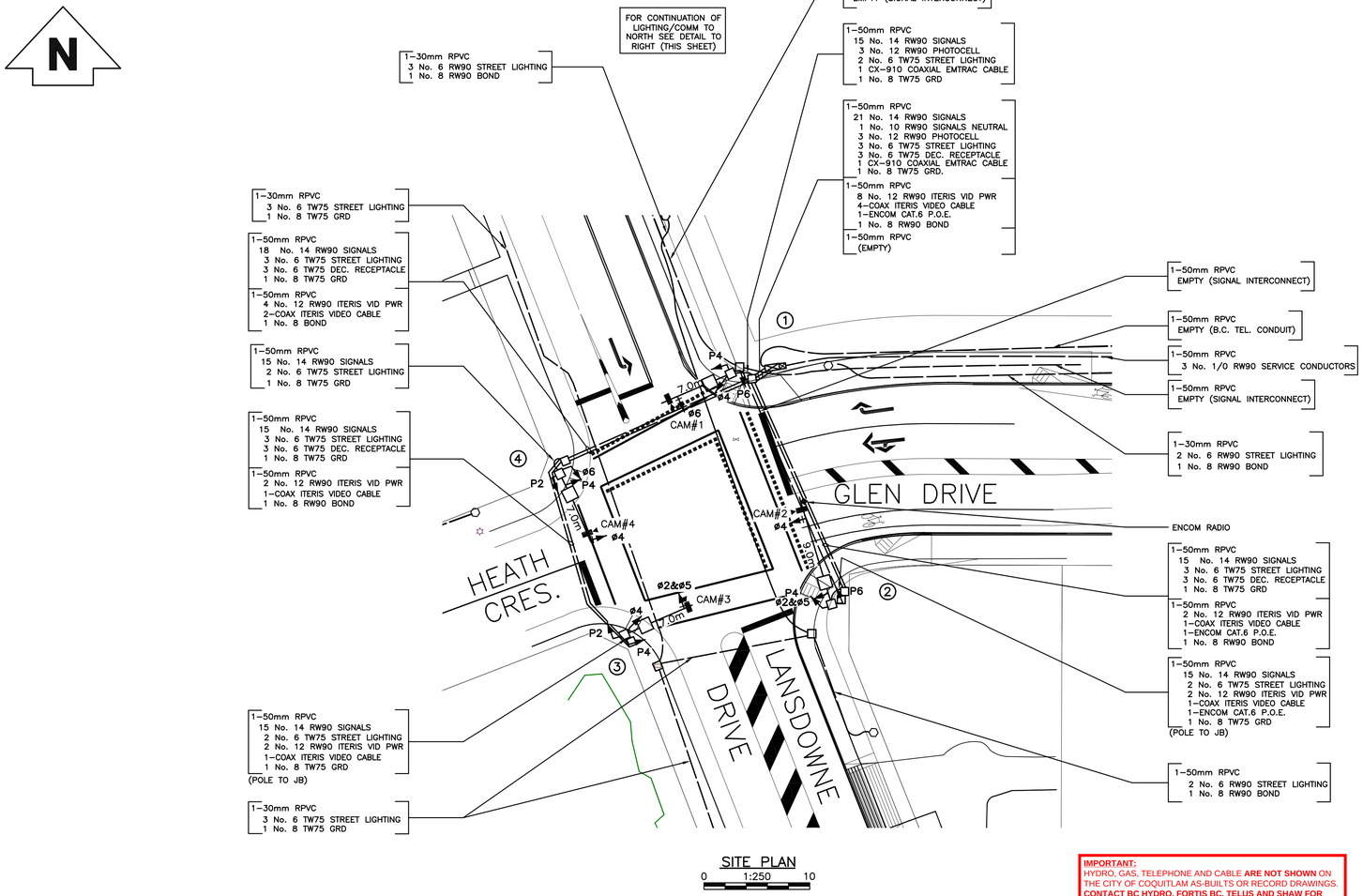
CITY OF COQUITLAM — **Engineering & Public Works**

GUILDFORD WAY LANSDOWNE DRIVE TO PACIFIC STREET PLAN VIEW

DESIGNED	C.D.C
DRAWN	L.C.P.
METRIC SCALE	1:500
CHECKED	L.R.M.
DATE	FEB. 8/2005

DWG FILE: PJ2005-07
SHEET 1 OF 7
REVISION NO. 1

Comm and Lighting Design Work - REV 1.dwg FEB 22, 2005 20:30 LCP



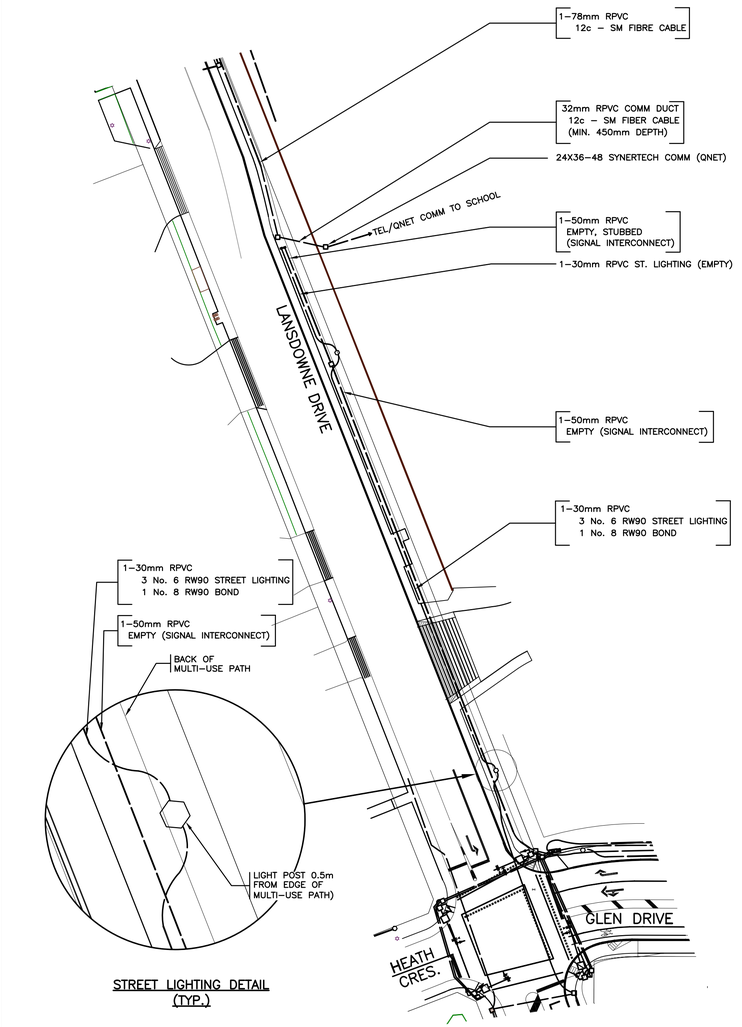
SITE PLAN
0 1:250 10

IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

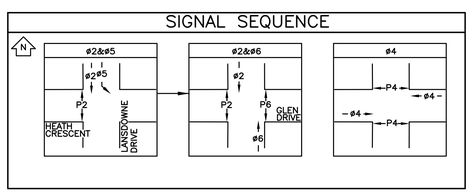
COMM DUCT AND STREET LIGHT RELOCATION WORK NORTH OF INTERSECTION



STREET LIGHTING DETAIL (TYP.)

SITE PLAN
0 1:500 25

SIGNAL SEQUENCE



GNEC
Great Northern Engineering Consultants

THE UNDERSIGNED DOES NOT WARRANT OR GUARANTEE, NOR ACCEPT ANY RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE AS–CONSTRUCTED INFORMATION SUPPLIED BY OTHERS CONTAINED IN THESE DRAWINGS, BUT DOES, BY SEALING AND SIGNING, CERTIFY THAT THE AS–CONSTRUCTED INFORMATION, IF ACCURATE AND COMPLETE, PROVIDES AN AS–CONSTRUCTED SYSTEM WHICH SUBSTANTIALLY COMPLIES IN ALL MATERIAL RESPECTS WITH THE ORIGINAL DESIGN INTENT.

SIGNED : Colin Commandeur, P.Eng.
DATE : JULY 06, 2016

COQ. AS-BUILT NO.
E1250-01TS
C2050

GNEC
Great Northern Engineering Consultants
202 - 8525 Baxter Place
Burnaby, BC V5A 4V7
Tel: 1.855.463.2266
www.gnec.ca

LEGEND

	EXISTING	PROPOSED
Edge of pavement		
Asphalt curb		
Concrete sidewalk		
Concrete curb		
Watermain and valve	W	W
Watermain, capped end	W	W
Hydrant		
Water blowoff		
Water temporary blowoff		

	EXISTING	PROPOSED
Drainage sewer and MH		
Drainage sewer capped end	D	D
Catch basin, top inlet		
Catch basin, side inlet		
Catch basin, round		
Swale		
Ditch		
Culvert		
Inlet Structure		

	EXISTING	PROPOSED
Sanitary sewer and MH	D	D
Sanitary sewer, capped end	D	D
Sanitary sewer, forcemain	FS	FS
U/G electrical duct and MH	E	E
Utility pole		
Utility pole with light		
Junction box	J	J
U/G telephone and MH	T	T
U/G gas main and valve	G	G

	EXISTING	PROPOSED
U/G signal/light duct	S	S
Streetlight, davit		
Streetlight, post top		
Traffic signal pole		
Traffic signal post		
Traffic controller	TC	TC
Service box	SB	SB
Signal fixture		
Traffic street sign		

	EXISTING	PROPOSED
	L	L

REV. No.	DATE	REVISION
5		
4		
3	JUL 06/16	RECORD DRAWING
2	JUL 31/14	ISSUED FOR CONSTRUCTION–GLEN BIKE LANES
1	JUL 14/14	ISSUED FOR TENDER–GLEN BIKE LANES
–	JULY 2014	DWG RECREATED – ISSUED FOR REVIEW – GLEN BIKE LNS

CITY OF COQUITLAM **Engineering**

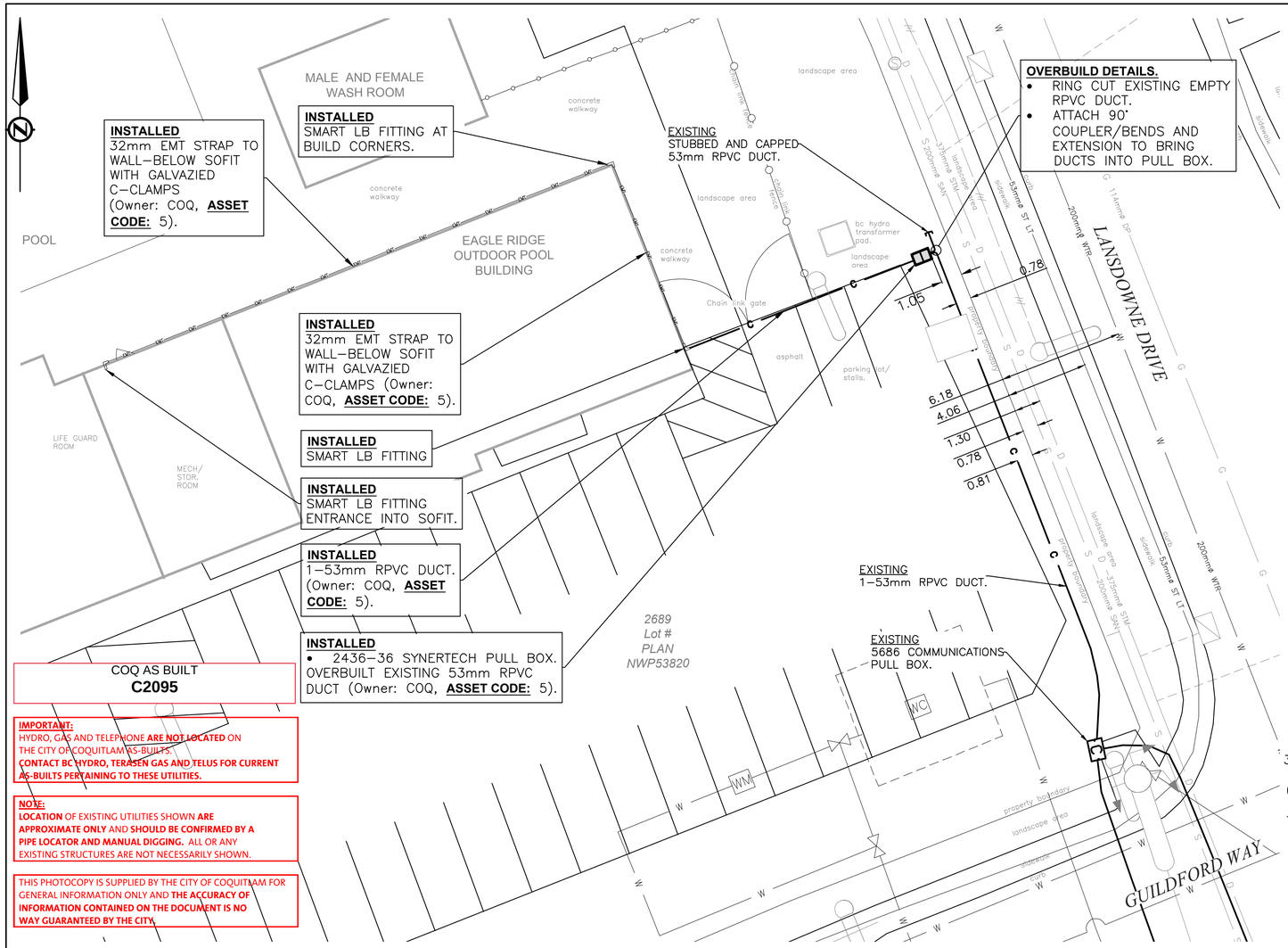
DESIGNED – LCP
DRAWN – CDC
METRIC SCALE – AS NOTED
CHECKED – LCP
DATE – JUNE 2016

GLEN DRIVE @ Lansdowne St.

PLAN VIEW

GNEC PROJECT NUMBER: 14BC–0045
SHEET 1 OF 2
REVISION NO. 3

FILE LOCATION: W:\s–2014 GNEC–VAN\14BC–0045 Coquitlam – Glen Dr – Traffic Signal\02_Drawings – Current\160704 – GLEN DRIVE MODS – MUP – Record Drawings.dwg
PLOT DATE: 7/6/2016 4:42 PM
SAVED BY: shekib.tazi:



RPVC DUCT, TRENCH AND VAULT INTALLATION LAYOUT PLANS.

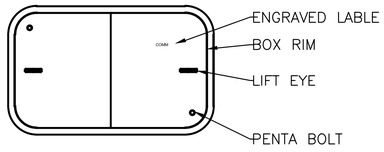
SCALE: 1:125

GENERAL CONSTRUCTION NOTES

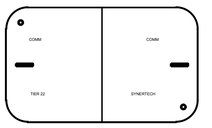
1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE MASTER MUNICIPAL SPECIFICATIONS CONTAINED IN THE CONTRACT DOCUMENTS, CITY OF COQUITLAM'S SUBDIVISION AND DEVELOPMENT SERVICING BYLAW NO.3558
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY OF COQUITLAM'S STREAM AND DRAINAGE SYSTEM PROTECTION BYLAW NO. 4403 2013.
3. ALL WORK SHALL PASS THE INSPECTION OF THE ENGINEERING AND PUBLIC WORKS DEPARTMENT OF THE CITY OF COQUITLAM. CONTACT CHAD BRALEY CITY'S SUPERVISOR DESIGN AND CONSTRUCTION, 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION (PHONE: (604) 927–3513.
4. THE CONTRACTOR SHALL ENSURE THAT ALL APPROVALS REQUIRED FOR THE PROPOSED WORKS HAVE BEEN OBTAINED FROM ALL AUTHORITIES AND AGENCIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
5. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL LOCATE AND EXPOSE ALL EXISTING STORM SEWERS, SANITARY SEWERS, WATERMAINS, GAS MAINS, UNDERGROUND ELECTRICAL AND/OR TELEPHONE DUCTING, STREETLIGHT AND ALL OTHER EXISTING UNDERGROUND UTILITIES AT ALL TIE–IN POINTS AND ALL POINTS WHERE THEY MAT CROSS OR COME INTO CLOSE PROXIMITY WITH THE PROPOSED WORKS. IN THE EVENT OF CONFLICTS, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER FOR DIRECTIONS.
6. THE CONTRACTOR SHALL RESTORE THE EXISTING PAVEMENT ACROSS ALL TRENCH EXCAVATIONS TO ORIGINAL CONDITION OR BETTER AND THE FINISHED PAVEMENT. ALL PAVEMENT CUTS AND RESTORATION WORK SHALL BE IN ACCORDANCE WITH THE CITY OF COQUITLAM'S ENGINEERING AND PUBLIC WORKS DEPARTMENT.
7. THE CONTRACTOR SHALL NOT BE ALLOWED TO ENCROACH INTO PRIVATE PROPERTY ADJACENT TO THE PROJECT SITE.
8. TRENCH DETAILS PER COQUITLAM STANDARD DETAIL COQ–G4
9. THE CONTRACTOR SHALL TAKE EXTREME CARE WHEN WORKING NEAR OR AROUND EXISTING SERVICES, ANY DISTURBANCE TO THESE SERVICES SHAL BE REPLACED OR MADE GOOD TO THE SATISFACTION OF THE CITY OF COQUITLAM OR OWNER OF THE UTILITY.
10. DISTURBANCE TO ANY LANDSCAPING OR IMPROVEMENT SHALL BE RESTORED BY THE CONTRACTOR TO THE SATISFACTION OF THE CITY OF COQUITLAM. IN SOME CASES THE CITY OF COQUITLAM MAY REQUIRE THE CONTRACTOR TO OBTAIN WRITTEN ACCEPTANCE OF THE RESTORATION FROM THE AFFECTED PROPERTY OWNERS.
11. ALL EXISTING LIVE SERVICES SHALL BE MAINTAINED OPERATIONAL DURING CONSTRUCTION.
12. ALL RESIDENCES AFFECTED BY CONSTRUCTION ARE TO BE GIVEN 48 HOURS NOTICE OF CONSTRUCTION.

FIBRE CONSTRUCTION NOTES

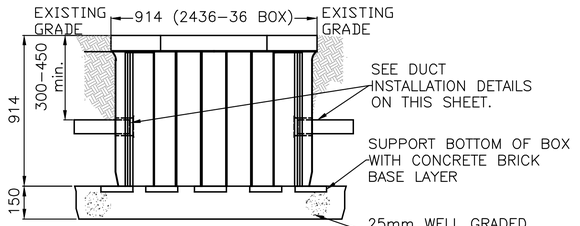
1. MINIMUM CONDUIT COVER 1.0m ALL SECTIONS, EXCEPT WHERE OTHER WISE NOTED.
2. ALL DUCTS TO BE 50mm SCHEDULE 40 UNLESS OTHERWISE NOTED.
3. ALL MANUFACTURED BENDS TO BE 0.9m RADIUS UNLESS OTHERWISE NOTED.
4. ALL CONCRETE PILASTERS TO BE 20mm ABOVE GRADE UNLESS OTHERWISE NOTED.
5. CONTRACTOR IS TO PROVE THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES AND SERVICES AFFECTED BY CONSTRUCTION.
6. CONTRACTOR TO CONTACT THE APPROPRIATE BC GAS INC. RECORDS DEPARTMENT 48 HRS PRIOR TO STARTING WORK.
7. CONTRACTOR TO CONTACT THE CITY/MUNICIPAL HIGHWAYS WORKS DEPARTMENT INSPECTOR 48 HRS TO STARTING WORK.
8. ALL BACKFILL MATERIAL AND COMPACTION TO BE IN ACCORDANCE WITH THE APPROVING AUTHORITIES SPECIFICATIONS.
9. ORANGE MARKER TAPE TO BE PLACED IN TRENCH LINE, 300mm ABOVE DUCTS.
10. ALL TRAFFIC RELATED CONTROLS SHALL CONFORM TO THE LATEST MUNICIPAL CODE AND /OR BYLAW.
11. MINIMUM 0.3m HORIZONTAL SEPARATION FROM EXISTING UTILITIES.
12. ALL TRENCHES COMMON TO ALL POWER AND COMMUNICATION DUCTS TO BE CONCRETE ENCASED.



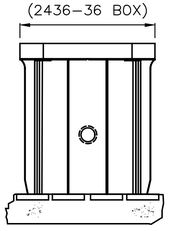
BOX WITH LID-PLAN VIEW



2 PIECE POLY-CONCRETE LID



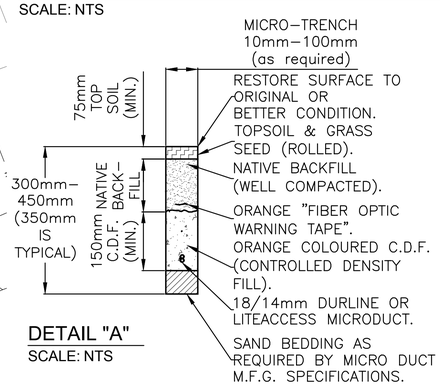
END OF BOX ELEVATION



SIDE OF BOX ELEVATION

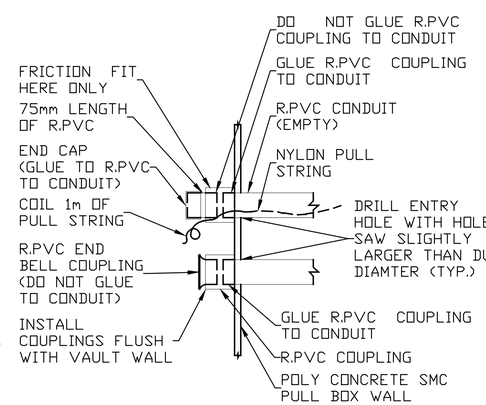
2436-36 SYNERTECH PULL BOX INSTALLATIONS DETAILS.

SCALE: NTS



DETAIL "A"

SCALE: NTS



DUCT INSTALLATION DETAIL

SCALE: NTS

CHECK BEFORE YOU DIG

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE.
THE CONTRACTOR SHALL CONTACT BC ONECALL 48–72 HOURS PRIOR TO DIGGING/EXCAVATING.

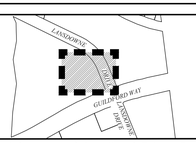
ALL DUCTS TO BE TAGGED "QNet" IN PULL BOXES AND BE CAPPED/SEALED UNTIL TIME OF CABLE INSTALLATION.

CONTRACTOR TO LOCATE ALL APPROXIMATE RUNNING LINES FOR UTILITIES AND OTHER COMMUNICATIONS DUCTS PRIOR TO TRENCHING.

CAUTION:
CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES REQUIRED TO PREVENT ANY MATERIALS FROM ENTERING CATCH BASINS OR FISH–BEARING WATERWAYS (PER D.F.O AND BC ENVIRONMENTAL REGULATIONS).
NOTES:
1. RESTORE NON–TRAVELLED SURFACES TO PREVIOUSLY EXISTING OR BETTER CONDITION.
2. "NON–TRAVELLED AREAS" ARE HARD SURFACED FOR PEDESTRIAN TRAFFIC ONLY AND ARE GENERALLY LANDSCAPED OR NON LANDSCAPED AREAS, NATURAL GARDENS AND LAWNS.
3. NATIVIE OR GRANULAR FILL TO BE WELL COMPACTED IN MAXIMUM OF 150mm LIFTS.

BC OneCall™
Call or Click
Before You Dig
Call:1-800-474-6886
Email: bconecall.ca

KEY PLAN



LEGEND

ex.CATV. Comm. Duct.	— ts —/— swer —	ex.Property Boundary	
ex.CATV. JB		ex.Sidewalk Pavement	
ex.QNet Teleco. Duct	—c—	ex.driveway	
ex.QNet Teleco. Service Vault		New QNet Comm. JB	
Camera		New QNet Comm. Duct	—c—

REVISIONS

REV.#	MTH/DAY/YR	DESCRIPTION	BY
–	–	–	–
–	–	–	–
E	9/16/2019	As built record drawing.	DR
D	4/19/2019	Permit Approved.	COQ. ENG
C	3/20/2019	Sent to Utility Permit for review and Approval.	DR
B	2/15/2019	Design Review.	BG
A	2/01/2019	Prelimnary Designs.	DR

DESIGN INFORMATION

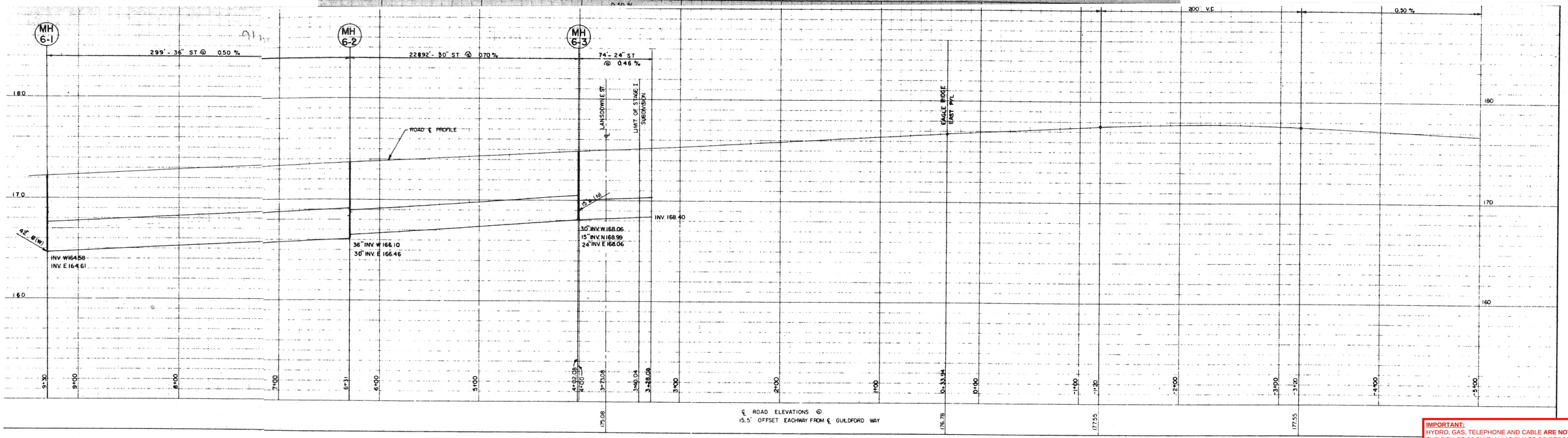
SCALE	SHEET NUMBER	REVISION NUMBER
AS SHOWN	1 of 1	E
QNet PROJECT NO	SHEET SIZE	CDEMS. FILE NO.
61473	ARCH D 24 x 36	3448131
DRAWN	DESIGNER	AS BUILT DRAWN BY
DR	BG & DR	DROPER
DATE	DATE	DATE AS BUILT COMPLETED
20/03/2019	14/02/2019	9/16/2019

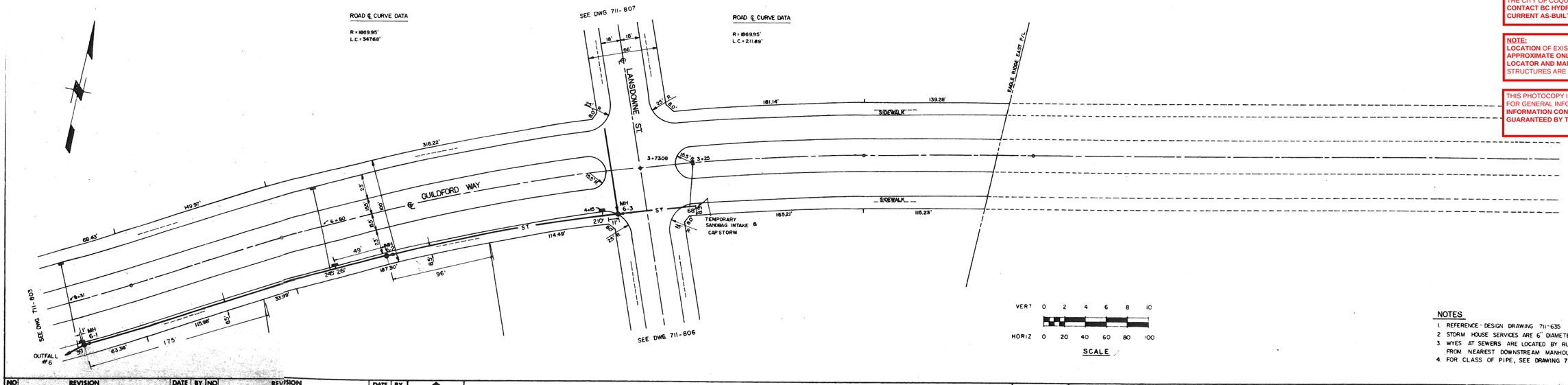
QNET
Coquitlam Optical Network Corporation
3000 Guildford Way, CoQuitlam, BC V3B 7N2
Phone: 604-927-3601 or Email: sales@qnetbc.net

PROJECT NAME:
QNet Duct Entrance into Eagle Ridge Outdoor Pool Building
(Apart of the WiFi in Parks Project).

PROJECT LOCATION:	DRAWING NO.:
2689 Guildford Way	61473–006
Lansdowne Drive and Guildford Way intersection.	

9/13/2018 11:49:27 AM K:\enghouse\Coquitlam\Future Projects\WiFi in Parks\Eagle Ridge Pool\61473–006 2689 Guildford Way – Eagle Ridge Outdoor Pool Civil Permit Connection.dwg





IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

NOTES
1. REFERENCE - DESIGN DRAWING 711-635
2. STORM HOUSE SERVICES ARE 6" DIAMETER
3. WYES AT SEWERS ARE LOCATED BY RUNNING DIMENSION FROM NEAREST DOWNSTREAM MANHOLE.
4. FOR CLASS OF PIPE, SEE DRAWING 711-801, NOTE #1

NO	REVISION	DATE	BY	NO	REVISION	DATE	BY

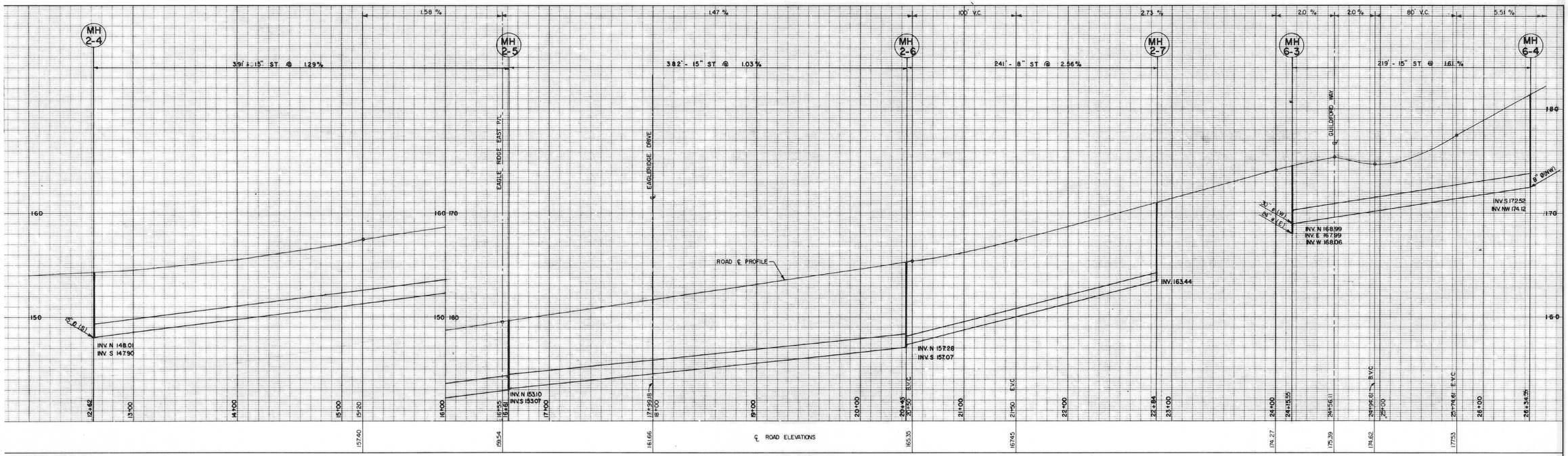
B.A.C.M. DEVELOPMENT CORPORATION LIMITED

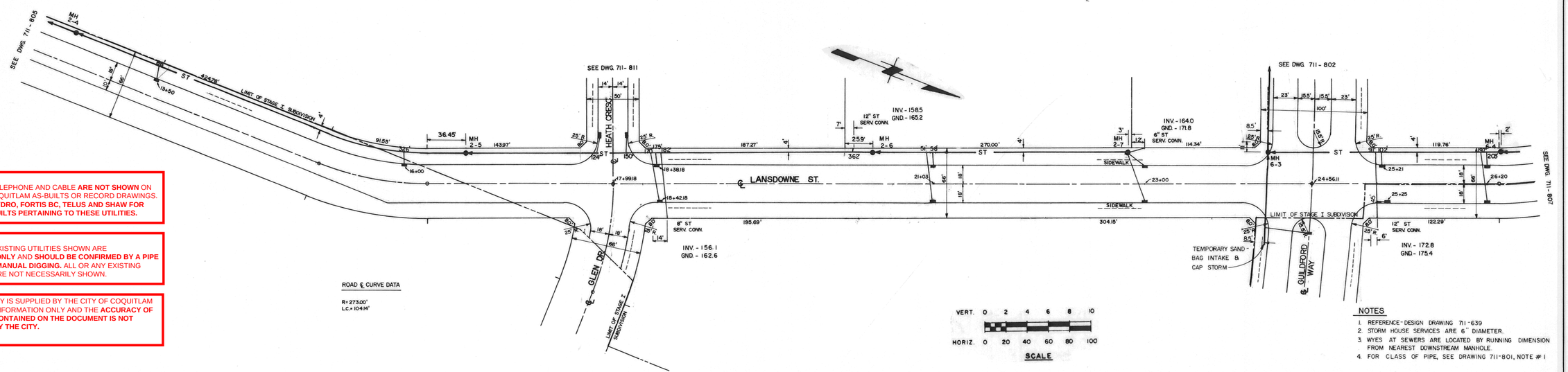
EAGLE RIDGE SUBDIVISION STAGE I
STORM SEWER AS CONSTRUCTED
GUILDFORD WAY STA 0+00 TO 9+00

DESIGN - C.L.M.	
DRAWN - F.K.Y.	
CHECKED - C.F.F.	
DATE JAN. 25 1978	SCALE AS SHOWN

FILE NO.
DRAWING NO. 711-802 REV.

D-399-2





IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

NOTES

1. REFERENCE - DESIGN DRAWING 711-639
2. STORM HOUSE SERVICES ARE 6" DIAMETER.
3. WYES AT SEWERS ARE LOCATED BY RUNNING DIMENSION FROM NEAREST DOWNSTREAM MANHOLE.
4. FOR CLASS OF PIPE, SEE DRAWING 711-801, NOTE # 1

REVISION	DATE	BY	NO	REVISION	DATE	BY

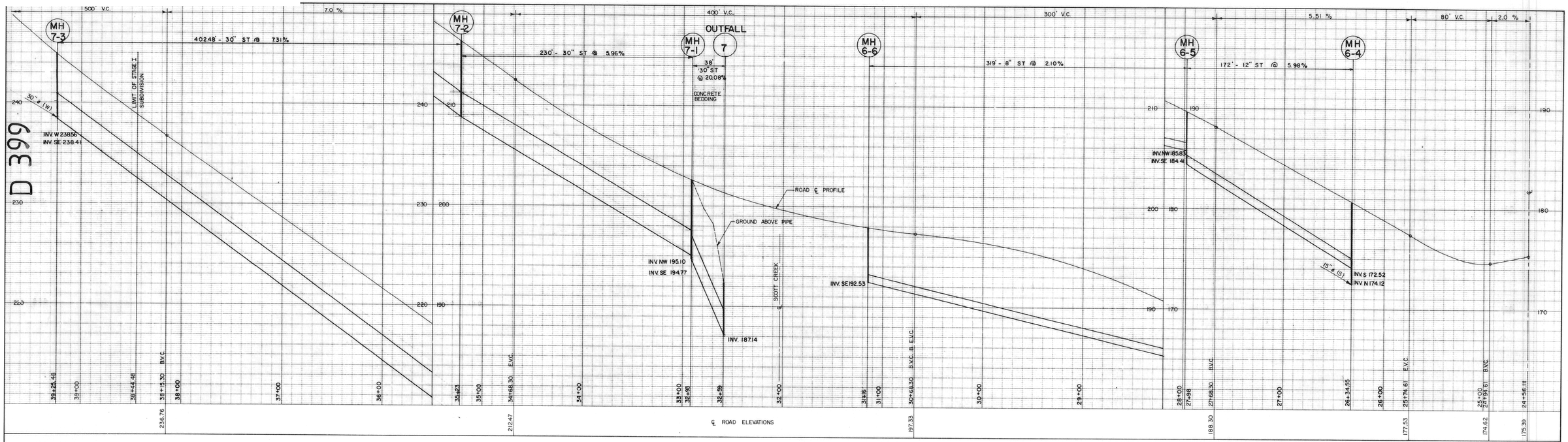
B.A.C.M. DEVELOPMENT CORPORATION LIMITED

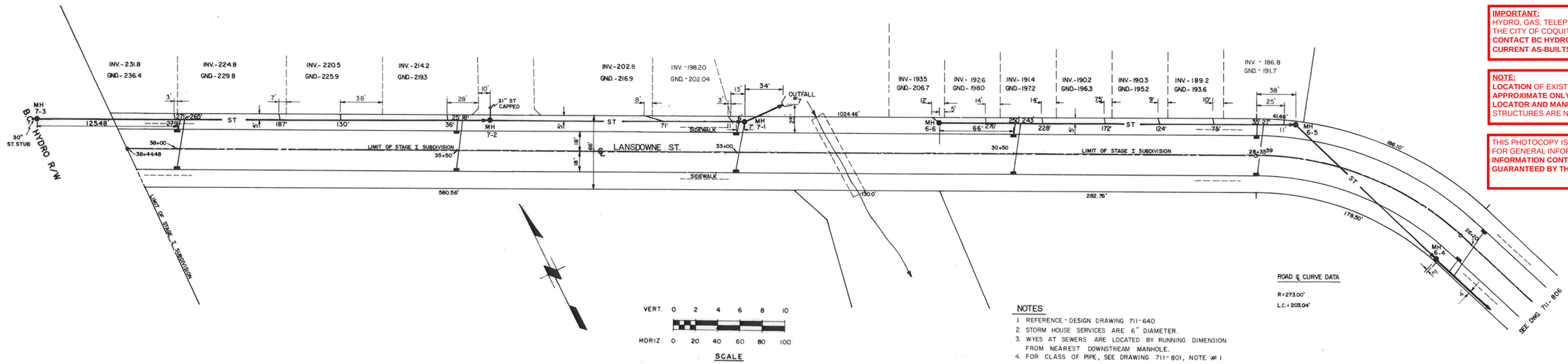
EAGLE RIDGE SUBDIVISION STAGE I
STORM SEWER AS CONSTRUCTED
LANSDOWNE STREET STA. 12+50 TO 26+50

DESIGN – C.L.M.	FILE NO.
DRAWN – F.K.Y.	DRAWING NO. 711-806 REV.
CHECKED – C.F.F.	
DATE JAN. 17 1978	SCALE AS SHOWN

D - 399 - 6

D 399





VERT. 0 2 4 6 8 10

HORIZ 0 20 40 60 80 100

SCALE

NOTES

1. REFERENCE - DESIGN DRAWING 711-640
2. STORM HOUSE SERVICES ARE 6" DIAMETER.
3. WYES AT SEWERS ARE LOCATED BY RUNNING DIMENSION FROM NEAREST DOWNSTREAM MANHOLE.
4. FOR CLASS OF PIPE, SEE DRAWING 711-801, NOTE # 1

IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

NO	REVISION	DATE	BY	NO	REVISION	DATE	BY

BACM DEVELOPMENT

B.A.C.M. DEVELOPMENT CORPORATION LIMITED

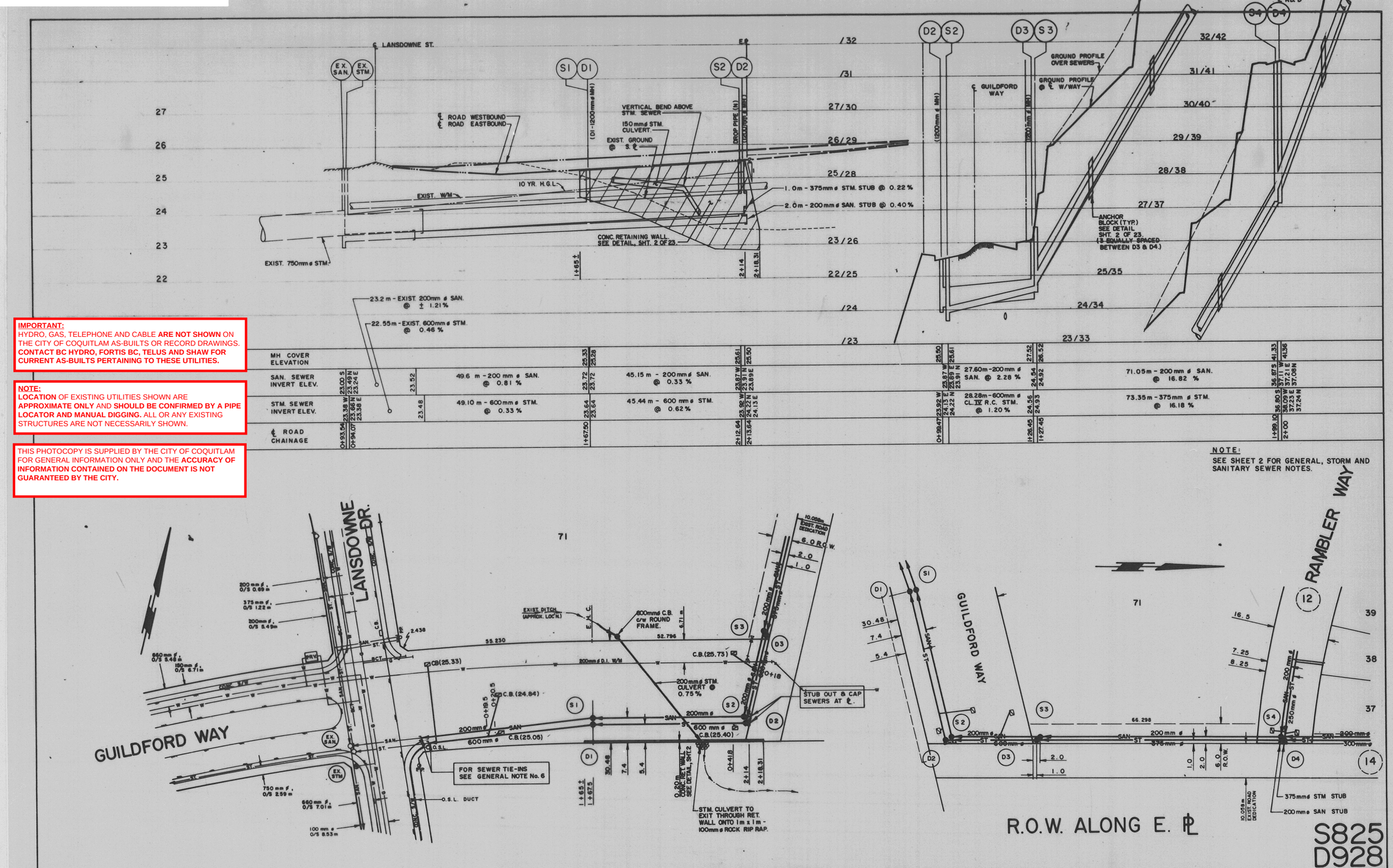
EAGLE RIDGE SUBDIVISION STAGE I
STORM SEWER AS CONSTRUCTED
LANSDOWNE ST. STA. 26+00 TO 39+50

DESIGN - C.L.M.	
DRAWN - F.K.Y.	
CHECKED - C.F.F.	
DATE JAN 19 1978	SCALE AS SHOWN

FILE NO.
DRAWING NO. 711-807 REV.

D-399-7

D-928



IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

S825
D928

Legend

	Proposed	Existing
STORM SEWER	ST	ST
SAN SEWER	SAN	SAN
GAS	G	G
WATER	W	W
UG ELECTRIC	BCH	BCH
UG TELEPHONE	BCT	BCT
VALVE		
MANHOLE		

DITCH; UTILITY POLE; FIRE HYDRANT; IRON PIN; BASEMENT ELEV; EDGE OF PVMT; INTEG SURVEY MON

STORM INLET TYPES - I, II, III, IV

APLIN & MARTIN ENGINEERING LTD.
8911-152nd ST., SURREY, B.C. PH. 588-8541

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA C. A. COWAN

REV'N	DATE	DR'N	CH'D	
4	NOV. 1986	L.B	M.S	AS CONSTRUCTED
3	FEB 1986		CAC	CULVERT SIZE, PROFILE D3 TO D4, DROP PIPES DELETED.
2	JAN. 1986		CAC	WATER, STM. CULVERT, CB's, RETAINING WALL.
1	SEPT. 1985	L.R.P		AS REQ'D BY COQUITLAM.

DISTRICT OF COQUITLAM Engineering Department

DESIGNED - C. A. C.
DRAWN - R. L. D. /
METRIC SCALE - 1:500 / 1:50
APPROVED -
DATE - AUG., 1984

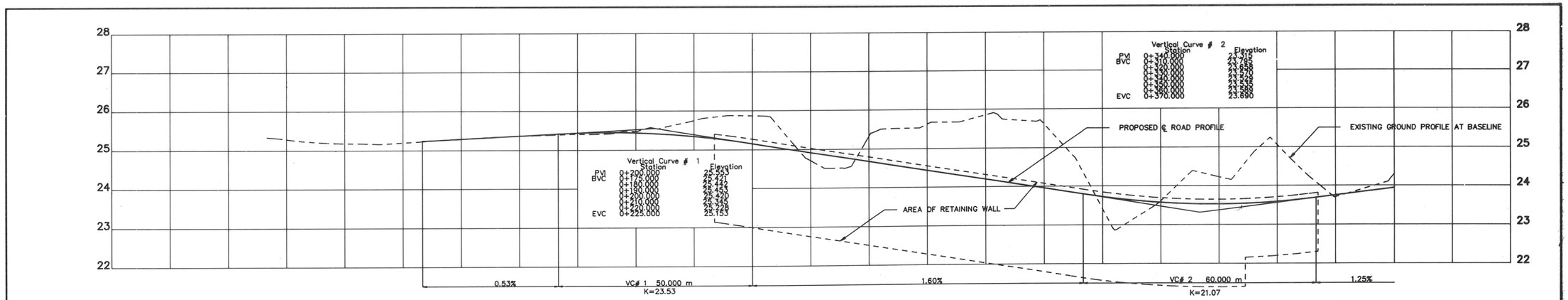
GENSTAR DEVELOPMENT COMPANY
SUITE 400-13225 104 AVE., SURREY, B.C. V3R 6Y8 PH. 584-8511

STORM AND SANITARY SEWERS
GUILDFORD WAY AND R.O.W. ALONG E. ℄

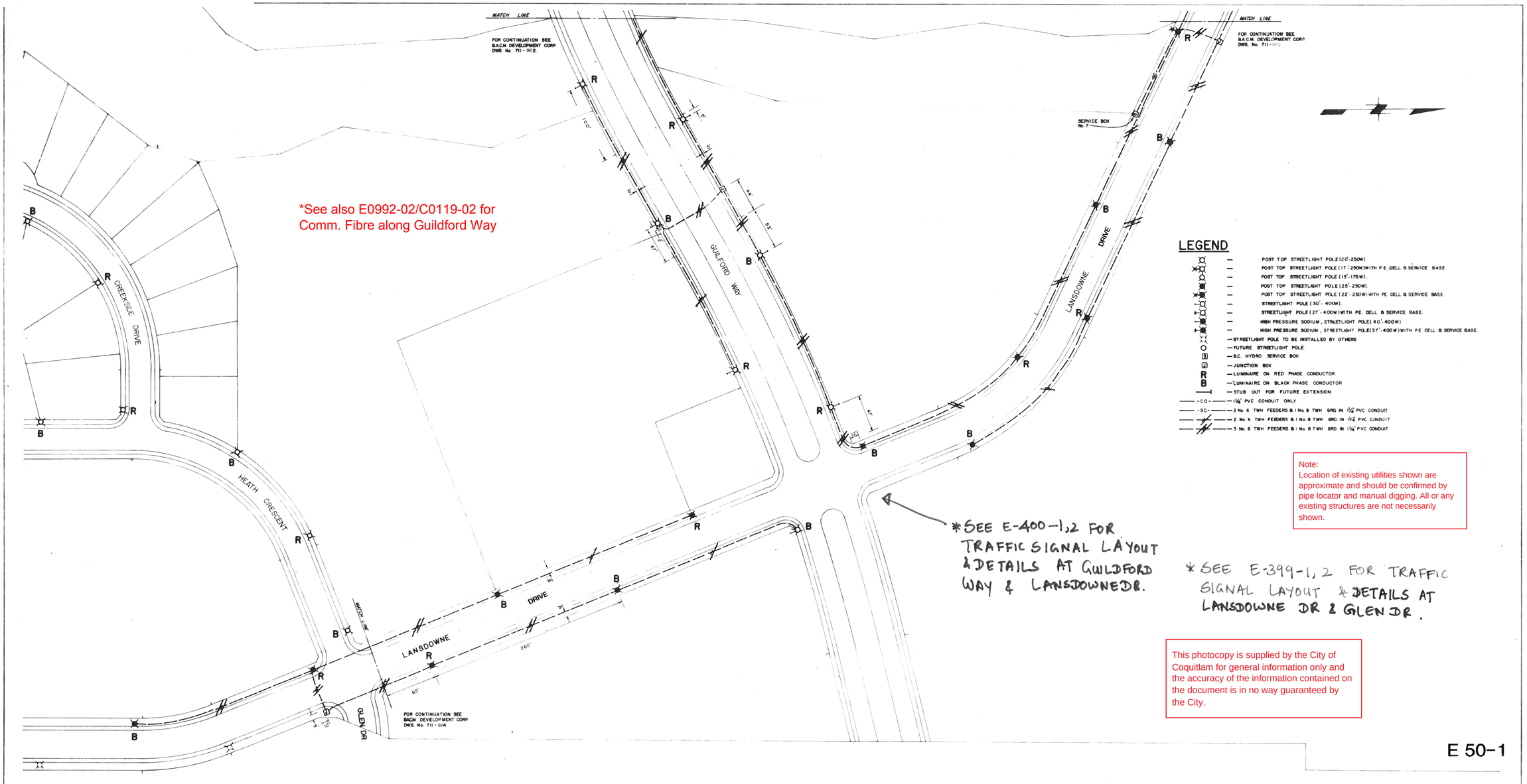
FILE -
CONSULTANTS DWG No - 84949
DISTRICT DWG No -
SHEET 15 OF 23

a-1

D 1631-1


Vertical Curve # 1
Station
PVI 0+200.000
BVC 0+175.000
0+180.000
0+190.000
0+200.000
0+210.000
0+220.000
EVC 0+225.000
Elevation
25.563
25.421
25.422
25.433
25.420
25.373
25.228
25.153
Vertical Curve # 2
Station
PVI 0+340.000
BVC 0+330.000
0+340.000
0+350.000
0+360.000
0+370.000
EVC 0+370.000
Elevation
23.312
23.792
23.658
23.570
23.542
23.535
23.580
23.890
PROPOSED ℄ ROAD PROFILE
EXISTING GROUND PROFILE AT BASELINE
AREA OF RETAINING WALL
0.53%
VC# 1 50.000 m
K=23.53
1.60%
VC# 2 60.000 m
K=21.07
1.25%
28
27
26
25
24
23
22

| | | |



Note:
Location of existing utilities shown are approximate and should be confirmed by pipe locator and manual digging. All or any existing structures are not necessarily shown.

This photocopy is supplied by the City of Coquitlam for general information only and the accuracy of the information contained on the document is in no way guaranteed by the City.

E 50-1

NO	REVISION	DATE	BY	NO	REVISION	DATE	BY

B.A.C.M. DEVELOPMENT CORPORATION LIMITED

R. P. SHAFLIK ENGINEERING LTD.
ELECTRICAL CONSULTANTS
BURNABY, B.C.

EAGLE RIDGE STAGE I
STREETLIGHTING ELECTRICAL AS CONSTRUCTED

DESIGN - RS
DRAWN - L B
CHECKED - RS
DATE JUNE 1977
SCALE 1" = 50'

FILE NO.
DRAWING NO. E-50-1 REV.

E-50-1

E-304

*See also E0992-02/C0119-02 for Comm. Fibre along Guildford Way

This photocopy is supplied by the City of Coquitlam for general information only and the accuracy of the information contained on the document is in no way guaranteed by the City.

Note:
Location of existing utilities shown are approximate and should be confirmed by pipe locator and manual digging. All or any existing structures are not necessarily shown.

GUILDFORD WAY

LANSDOWNE DR.

* SEE E-400-1,2 FOR TRAFFIC SIGNAL LAYOUT & DETAILS AT GUILDFORD WAY & LANSDOWNE DR.

TEMPORARY J.B. TO BE REMOVED, CONDUIT EXTENDED & CONDUCTORS REPLACED UPON EXTENSION OF GUILDFORD WAY.

TEMPORARY SERVICE EXTENSION. CONDUCTORS TO BE DISCONNECTED AT HANDHOLE & CONDUIT ABANDONED UPON EXTENSION OF GUILDFORD WAY

LOCATION OF B.C. HYDRO SERVICE BOX

I.E.S. TYPE IV DISTRIBUTION

I.E.S. TYPE IV DISTRIBUTION.

KAISER WAY

STREET 31

RAMBLER DRIVE

NASH DRIVE

DURANT DRIVE

16

E304

APLIN & MARTIN ENGINEERING LTD.
8911-152nd ST., SURREY, B.C. PH. 588-8541

Legend

	Proposed	Existing
STORM SEWER	ST	ST
SAN SEWER	SAN	SAN
GAS	G	G
WATER	W	W
UG ELECTRIC	BCH	BCH
UG TELEPHONE	BCT	BCT
VALVE		
MANHOLE		

DITCH; UTILITY POLE; FIRE HYDRANT; IRON PIN; BASEMENT ELEV; EDGE OF PVMT; INTEG SURVEY MON

STORM INLET TYPES - I, II, III, IV

PROFESSIONAL ENGINEER PROVINCE OF B.C. C. A. COWAN

REV'N	DATE	DR'N	CH'D	
5	NOV. 1986	L.B.	M.S.	AS CONSTRUCTED
4	AUG. 1986	R.L.D.	R.Mc.	GUILDFORD WAY TEMP. SERVICE FROM RD. 'D'
3	JULY 1986	R.L.D.	R.Mc.	REMOVE HYDRO SERVICE, TIE TO EXIST.
2	JAN 1986		R.Mc.	REVISED FOR LEGAL CHANGES
1	SEPT. 1985	L.R.P.		AS REQ'D BY COQUITLAM.

DISTRICT OF COQUITLAM Engineering Department

DESIGNED - R. Mc
DRAWN -
METRIC SCALE - 1:500
APPROVED -
DATE - AUG., 1984

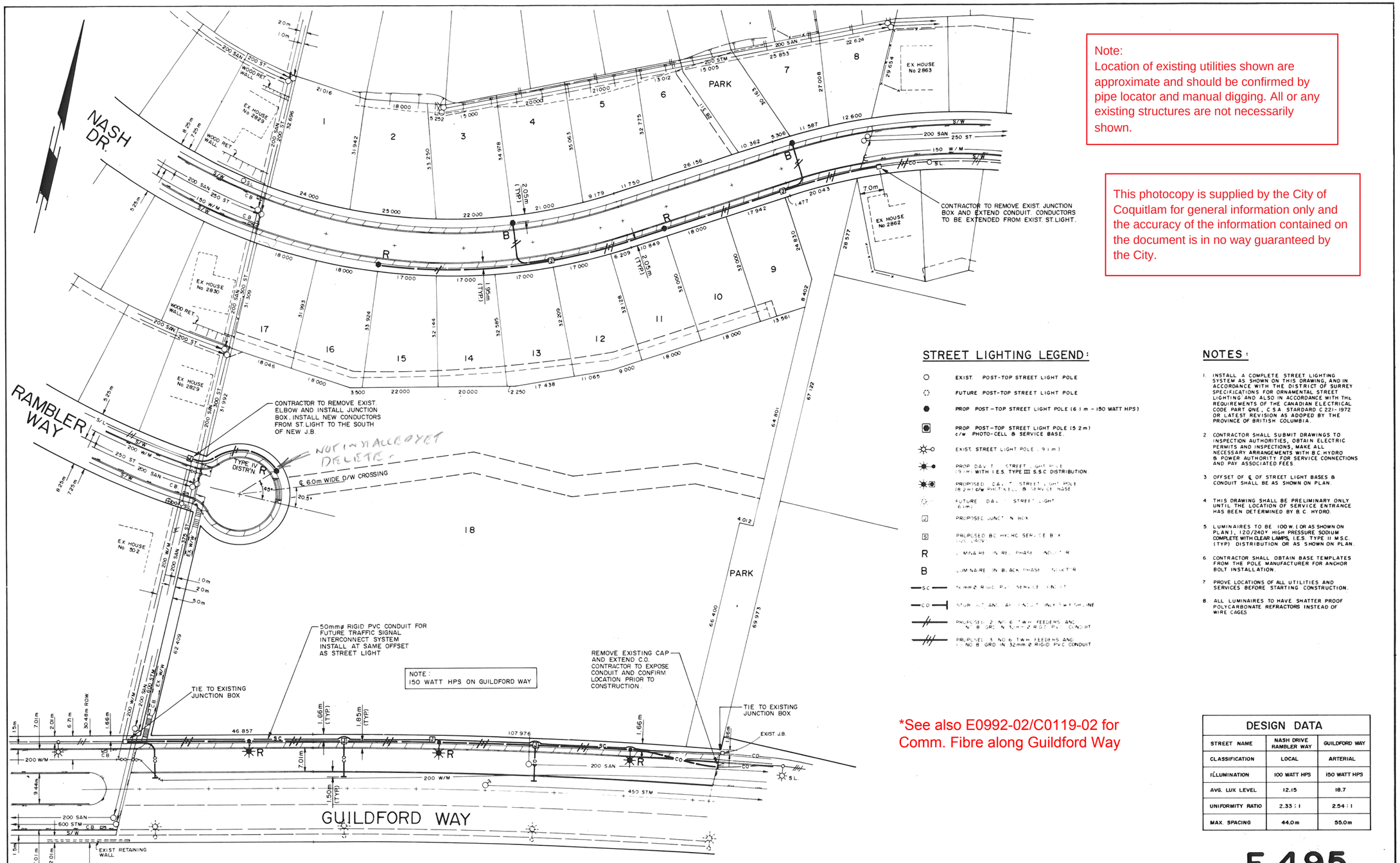
GENSTAR DEVELOPMENT COMPANY
SUITE 400-15225 104 AVE., SURREY, B.C. V3R 6Y8 PH. 584-8511

STREET LIGHTING PLAN No. 2

FILE -
CONSULTANTS DWG No - 84949
DISTRICT DWG No -
SHEET 17 OF 23

a-1

E-495



Note:
Location of existing utilities shown are approximate and should be confirmed by pipe locator and manual digging. All or any existing structures are not necessarily shown.

This photocopy is supplied by the City of Coquitlam for general information only and the accuracy of the document contained on the document is in no way guaranteed by the City.

STREET LIGHTING LEGEND:

- EXIST. POST-TOP STREET LIGHT POLE
- FUTURE POST-TOP STREET LIGHT POLE
- PROP. POST-TOP STREET LIGHT POLE (6.1m - 150 WATT HPS)
- PROP. POST-TOP STREET LIGHT POLE (5.2m) c/w PHOTO-CELL & SERVICE BASE.
- EXIST. STREET LIGHT POLE (9.1m)
- PROP. DAV. T. STREET LIGHT POLE (9.1m) WITH I.E.S. TYPE III S.C. DISTRIBUTION.
- PROPOSED C.A.P. STREET LIGHT POLE (5.2m) C/W PHOTO-CELL & SERVICE BASE.
- FUTURE D.A. STREET LIGHT (9.1m)
- PROPOSED JUNCT'N BOX
- S — PROPOSED B.C. HYDRO SERVICE BOX (SIZE 240V)
- R — LUMINAIRE ON RED PHASE INDICATOR
- B — LUMINAIRE ON BLACK PHASE INDICATOR
- SC — 50mmø RIGID P.V.C. SERVICE CONDUIT
- CO — STORM, SAN. & C.O. CONDUIT ONLY SAME ALIGNMENT
- PROPOSED 2 NO. 6 TWH FEEDERS AND 1 NO. 8 GRD IN 32mmø RIGID P.V.C. CONDUIT
- PROPOSED 3 NO. 6 TWH FEEDERS AND 1 NO. 8 GRD IN 32mmø RIGID P.V.C. CONDUIT

NOTES:

1. INSTALL A COMPLETE STREET LIGHTING SYSTEM AS SHOWN ON THIS DRAWING, AND IN ACCORDANCE WITH THE DISTRICT OF SURREY SPECIFICATIONS FOR ORNAMENTAL STREET LIGHTING AND ALSO IN ACCORDANCE WITH THE REQUIREMENTS OF THE CANADIAN ELECTRICAL CODE PART ONE, C.S.A. STANDARD C.22I-1972 OR LATEST REVISION AS ADOPED BY THE PROVINCE OF BRITISH COLUMBIA.
2. CONTRACTOR SHALL SUBMIT DRAWINGS TO INSPECTION AUTHORITIES, OBTAIN ELECTRIC PERMITS AND INSPECTIONS, MAKE ALL NECESSARY ARRANGEMENTS WITH B.C. HYDRO & POWER AUTHORITY FOR SERVICE CONNECTIONS AND PAY ASSOCIATED FEES.
3. OFFSET OF ℄ OF STREET LIGHT BASES & CONDUIT SHALL BE AS SHOWN ON PLAN.
4. THIS DRAWING SHALL BE PRELIMINARY ONLY UNTIL THE LOCATION OF SERVICE ENTRANCE HAS BEEN DETERMINED BY B.C. HYDRO.
5. LUMINAIRES TO BE 100W. (OR AS SHOWN ON PLAN), 120/240V. HIGH PRESSURE SODIUM COMPLETE WITH CLEAR LAMPS, I.E.S. TYPE II M.S.C. (TYP.) DISTRIBUTION OR AS SHOWN ON PLAN.
6. CONTRACTOR SHALL OBTAIN BASE TEMPLATES FROM THE POLE MANUFACTURER FOR ANCHOR BOLT INSTALLATION.
7. PROVE LOCATIONS OF ALL UTILITIES AND SERVICES BEFORE STARTING CONSTRUCTION.
8. ALL LUMINAIRES TO HAVE SHATTER PROOF POLYCARBONATE REFRACTORS INSTEAD OF WIRE CAGES

*See also E0992-02/C0119-02 for Comm. Fibre along Guildford Way

DESIGN DATA		
STREET NAME	NASH DRIVE RAMBLER WAY	GUILDFORD WAY
CLASSIFICATION	LOCAL	ARTERIAL
ILLUMINATION	100 WATT HPS	150 WATT HPS
AVG. LUX LEVEL	12.15	18.7
UNIFORMITY RATIO	2.33 : 1	2.54 : 1
MAX. SPACING	44.0m	55.0m

E 495

APLIN MARTIN CONSULTANTS LTD
201 - 12448 82 Avenue, Surrey, B.C. Canada
V3W 3E9 (604) 597-9058 Fax 597-9061

Proposed / Existing

STORM SEWER		DITCH	
SAN SEWER		UTILITY POLE	
GAS		FIRE HYDRANT	
WATER		IRON PIN	
UG ELECTRIC		BASEMENT ELEV.	
UG TELEPHONE		EDGE OF PVMT	
VALVE		INTEG SURVEY MON	
MANHOLE			

STORM INLET TYPES: I II III IV

REV'N	DATE	DRN	CHD	
2	MAR., 1991	L.B.	W.L.	AS CONSTRUCTED - AS PER INFORMATION SUPPLIED BY DIST OF COQUITLAM
1	APR. 1990	L.B.	G.T.	REV'D. C.O. TIE-IN AT EAST ℄ AND ADDED 50mmø RIGID PVC S.C.

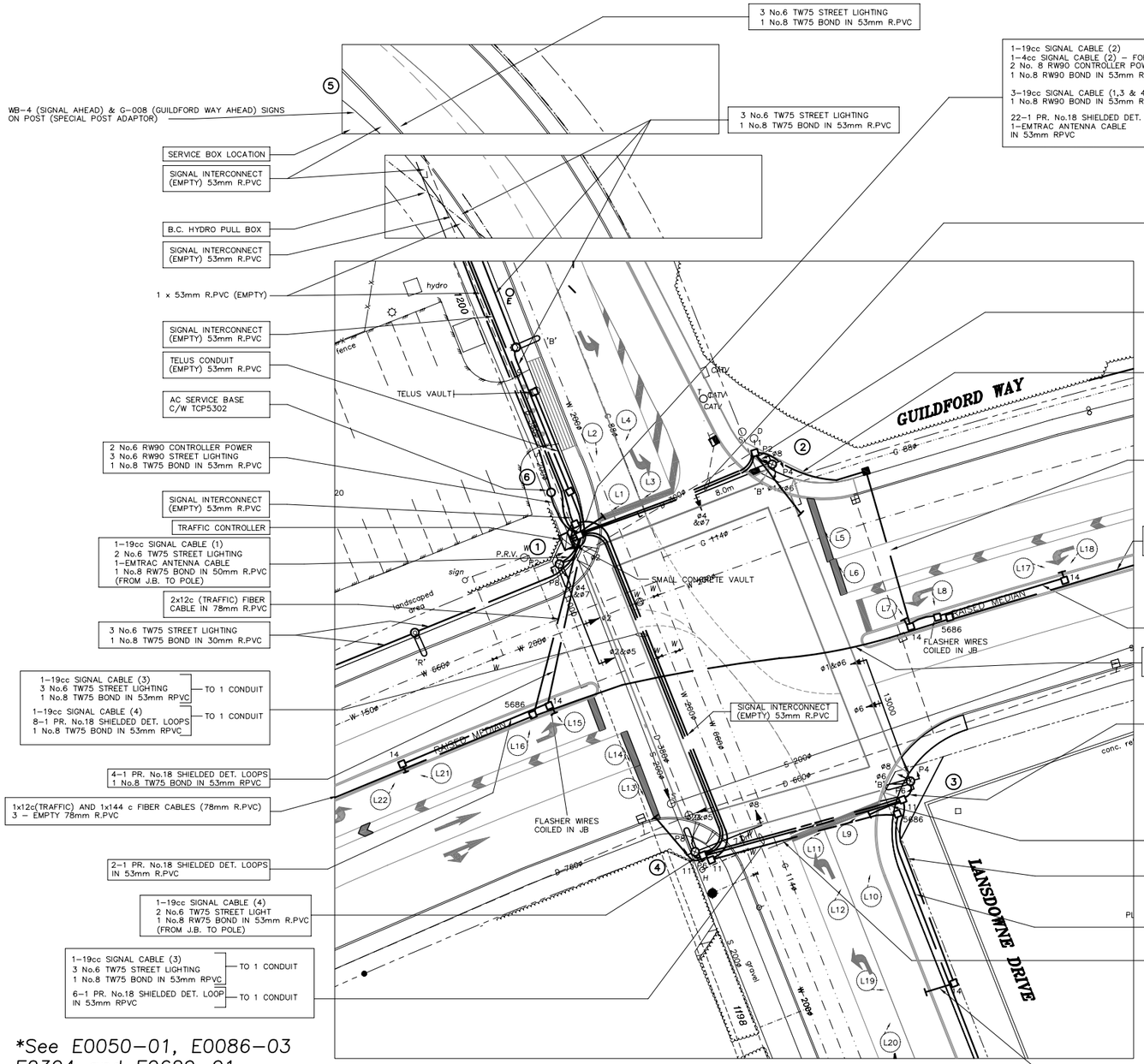
DISTRICT OF COQUITLAM Engineering Department

DESIGNED G.T.
DRAWN
METRIC SCALE 1 : 500
APPROVED
DATE MARCH, 1990

DURANT DRIVE SUBDIVISION PHASE II

STREET LIGHTING PLAN

FILE -05 02 89-03
CONSULTANTS DWG Nº - 89697A-9
DISTRICT DWG Nº -
SHEET 9 OF 11



SITE PLAN
1:250

*See E0050-01, E0086-03 E0304 and E0629-01 &-02 for earlier street lighting along Guildford

*See also E0992-02/C0119-02 for Comm. Duct Installation along Guildford

LEGEND

- COMBINATION TRAFFIC SIGNAL POLE
- PEDESTAL TRAFFIC SIGNAL POLE
- EXISTING STREET LIGHT
- ADVANCE WARNING SIGN/POLE
- 11 PROPOSED PLASTIC ROUND JUNCTION BOX (C/W BONDED STEEL LID) No. DENOTES TYPE
- EXISTING JUNCTION BOX
- A&C LUMINAIRE ON BLACK PHASE CONDUCTOR
- B&D LUMINAIRE ON RED PHASE CONDUCTOR
- 2 VEHICLE PHASE
- P2 PEDESTRIAN PHASE
- B.C. HYDRO POLE
- TRAFFIC CONTROLLER
- SERVICE PANEL
- PROPOSED CONDUIT
- EXISTING CONDUIT
- L9 2m ROUND VEHICLE DETECTOR LOOP

COLOUR CODING (MULTICONDUCTOR SIGNAL CABLE)

19 CONDUCTOR No.14, CSA SPEC. No.C22.2 - No. 239-97 CABLE IN CONDUIT
SOLID CONDUCTORS -- (COLOUR CODING CHART)

CABLE NUMBER REPRESENTS DESTINATION POLE

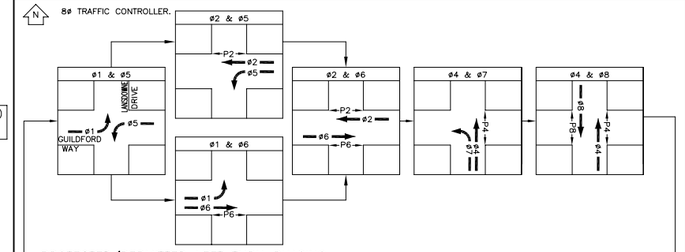
CONDUCTOR No.	SIGNAL ASSIGNMENT	LETTERING	CONDUCTOR COLOUR
1	NEUTRAL	WHITE ONE	WHITE
2	PB RETURN	WHITE TWO	WHITE
3	PRIMARY PB	--	BLACK
4	SECONDARY PB	--	ORANGE
5	PRIMARY RED	RED ONE	RED
6	SECONDARY RED	RED TWO	RED
7	SPARE	RED THREE	RED
8	PRIMARY PED DW	RED FOUR	RED
9	SECONDARY PED DW	RED FIVE	RED
10	PRIMARY AMBER	AMBER ONE	YELLOW
11	SECONDARY AMBER	AMBER TWO	YELLOW
12	PRIMARY LT AMBER	AMBER THREE	YELLOW
13	SECONDARY LT AMBER	AMBER FOUR	YELLOW
14	SECONDARY WALK	AMBER FIVE	YELLOW
15	PRIMARY GREEN	GREEN ONE	BLUE
16	SECONDARY GREEN	GREEN TWO	BLUE
17	PRIMARY LT GR ARROW	GREEN THREE	BLUE
18	SECONDARY LT GREEN	GREEN FOUR	BLUE
19	PRIMARY WALK	GREEN FIVE	BLUE

IMPORTANT:
HYDRO, GAS AND TELEPHONE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, TERASEN GAS AND TELUS FOR CURRENT AS-BUILTS PERTAINNIG TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING**. ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

SIGNAL SEQUENCE



*SUPERCEDES
E0400-01/C0039-01

I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THESE WORKS ARE COMPLETE AND WERE CONSTRUCTED AS ON THIS 'RECORD DRAWING'.

LCP SIGNAL MANAGEMENT INC.

SIGNED : Larry C. Parks

DATE :

Coquitlam Record Drawing No.
●E0936-01TS
C0058-01

LCP Signal Management Inc.
1447 Gabriola Drive
Coquitlam, B.C.
V3E 2C6
Ph: (604)-942-3631
Fax: (604)-945-9809

LEGEND

	EXISTING	PROPOSED
Edge of pavement		
Asphalt curb		
Concrete sidewalk		
Concrete curb		
Watermain and valve		
Watermain, capped end		
Hydrant		
Water blowoff		
Water temporary blowoff		
Drainage sewer and MH		
Drainage sewer capped end		
Catch basin, top inlet		
Catch basin, side inlet		
Catch basin, round		
Swale		
Ditch		
Culvert		
Inlet Structure		
Sanitary sewer and MH		
Sanitary sewer, capped end		
Sanitary sewer, forcemain		
U/G electrical duct and MH		
Utility pole		
Utility pole with light		
Junction box		
U/G telephone and MH		
U/G gas main and valve		
U/G signal/light duct		
Streetlight, davit		
Streetlight, post top		
Traffic signal pole		
Traffic signal post		
Traffic controller		
Service box		
Signal fixture		
Traffic street sign		

REV. No.	DATE	REVISION
6	MAR 01/05	RECORD DRAWING
5	MAY 25/04	ISSUED FOR CONSTRUCTION
4	MAY 5/04	ADD NORTHBOUND PRO/PER LEFT TURN
3	JAN25/04	RECORD DRAWING
2	SEP20/01	ISSUED FOR TENDER
1	AUG28/01	SIGNAL MODS PRELIM DESIGN REVIEW
-	JAN 2001	UPDATE DRAWING TO NEW FORMAT

Destroy All Prints Bearing Rev. No. less than one indicated above

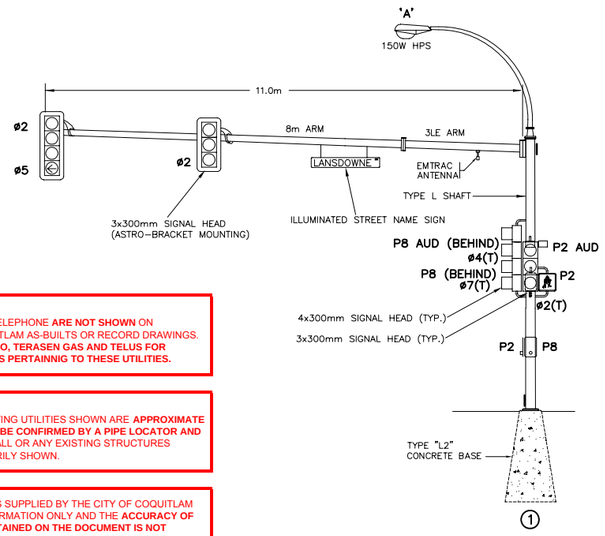
CITY OF COQUITLAM — **Operations**

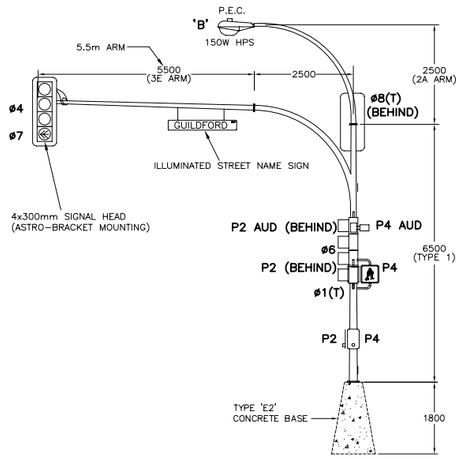
DESIGNED - L.C.P.
DRAWN - L.C.P.
METRIC SCALE - 1:250
CHECKED - L.R.M.
DATE - JAN 08/01

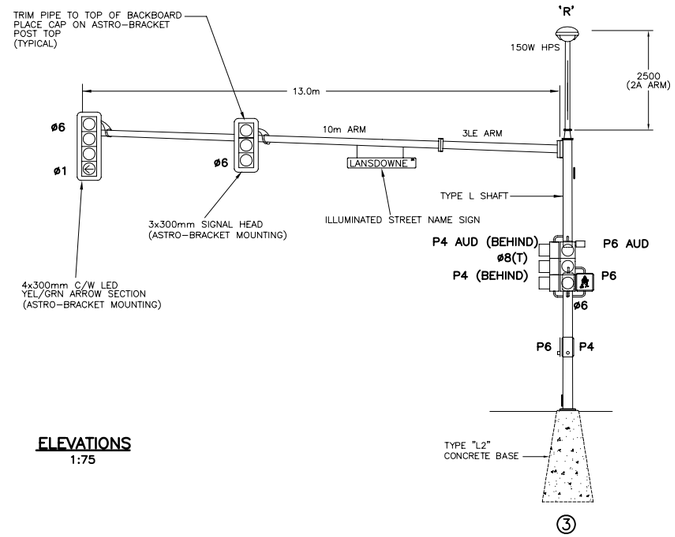
TRAFFIC SIGNAL UPGRADE
GUILDFORD WAY @ LANSDOWNE DRIVE
PLAN VIEW

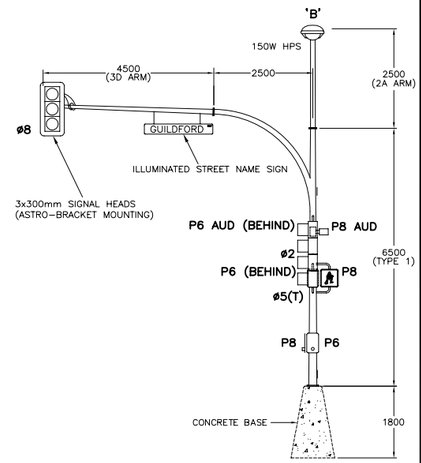
DWG FILE: PJ2004-29
SHEET 1 OF 2
REVISION NO. 6

ACAD Lans-Guild Signal Sht 1 Add LT-RECORD.dwg MAR 01, 2005 16:20 LCP







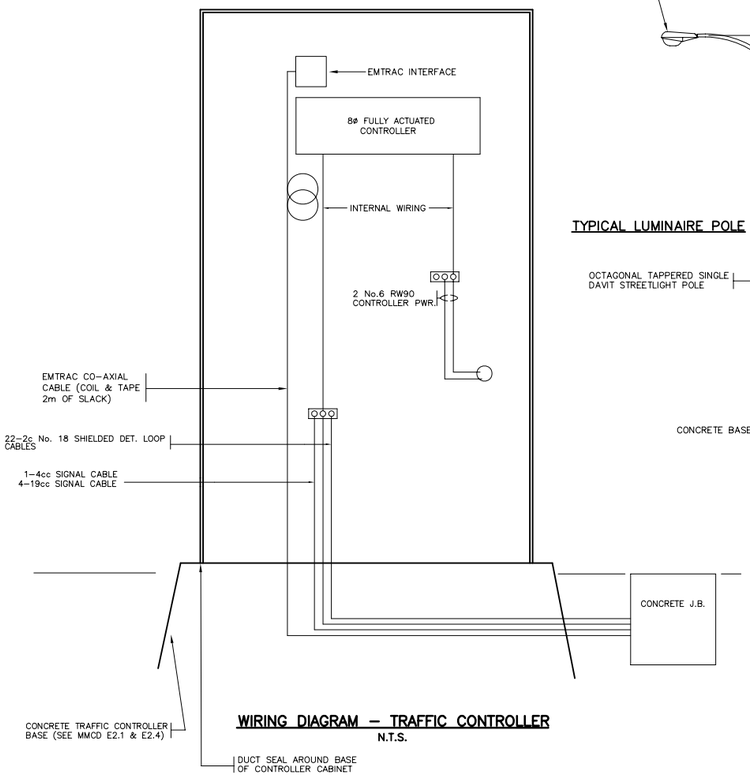


ELEVATIONS
1:75

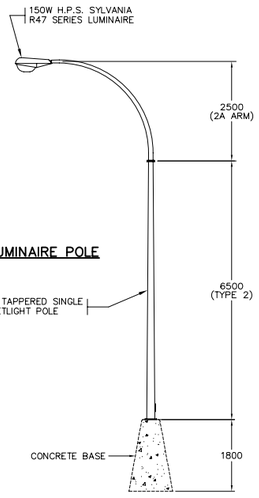
IMPORTANT:
HYDRO, GAS AND TELEPHONE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, TERASEN GAS AND TELUS FOR CURRENT AS-BUILTS PERTAINNIG TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING**. ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

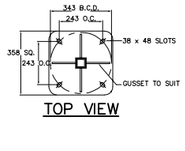
THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**



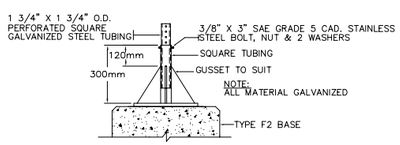
WIRING DIAGRAM – TRAFFIC CONTROLLER
N.T.S.



TYPICAL LUMINAIRE POLE

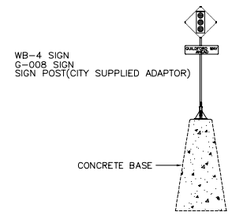


TOP VIEW

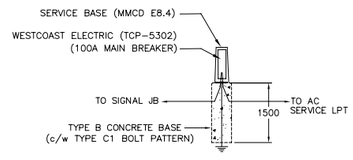


SIDE VIEW

TYPE F2 BASE/SIGN POST ADAPTOR DETAIL
N.T.S.



⑤



⑥

CHECK BEFORE YOU DIG

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH OCCUR DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

*SUPERCEDES
E0400-02/C0039-02

Coquitlam Record Drawing No.
● E0936-02TS
C0058-02

I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THESE WORKS ARE COMPLETE AND WERE CONSTRUCTED AS ON THIS 'RECORD DRAWING'.

LCP SIGNAL MANAGEMENT INC.

SIGNED : _____
Larry C. Parks

DATE : _____

LCP Signal Management Inc.
1447 Gabriola Drive
Coquitlam, B.C.
V3E 2C6
Ph: (604)-942-3631
Fax: (604)-945-9809

REV. No.	DATE	REVISION
6	MAR 01/05	RECORD DRAWING
5	MAY 25/04	ISSUED FOR CONSTRUCTION
4	MAY 5/04	ADD NORTHBOUND PRO/PER LEFT TURN
3	JAN25/04	RECORD DRAWING
2	SEP20/01	ISSUED FOR TENDER
1	AUG28/01	SIGNAL MODS PRELIM DESIGN REVIEW
–	JAN 2001	UPDATE DRAWING TO NEW FORMAT

Destroy All Prints Bearing Rev. No. less than one indicated above

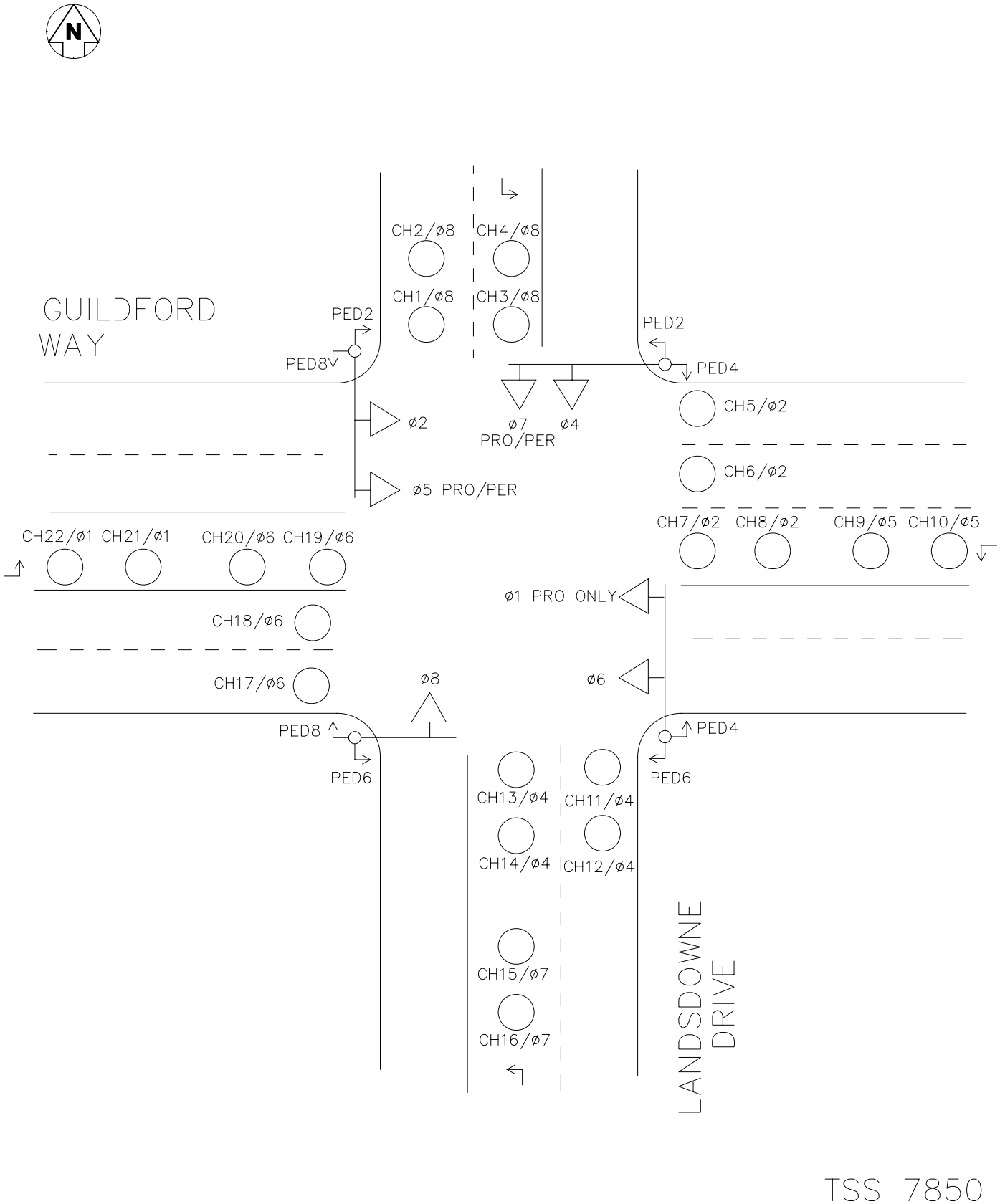
CITY OF COQUITLAM — **Operations**

DESIGNED – L.C.P.
DRAWN – L.C.P.
METRIC SCALE – N.T.S.
CHECKED – L.R.M.
DATE – JAN 08/01

TRAFFIC SIGNAL UPGRADE GUILDFORD WAY @ LANSDOWNE DRIVE DETAILS

DWG FILE: PJ2004-29
SHEET 2 OF 2
REVISION NO. 6

ACAD Lans-Guild Signal Sht 2 Add LT-RECORD.dwg MAR 01, 2005 17:00

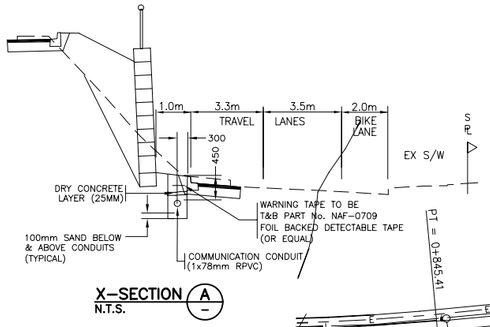


TSS 7850

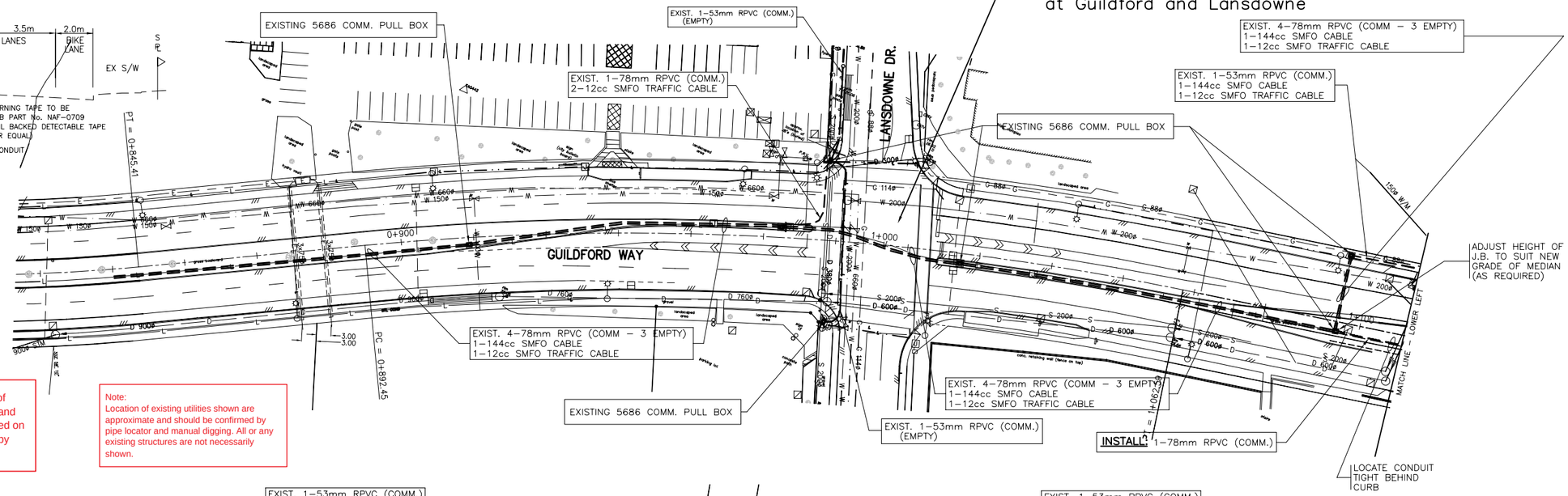
LCP Signal Management Inc.
1447 Gabriola Drive
Coquitlam, B.C.
V3E 2C6
Ph: 604-942-3631
Fax: 604-945-9809

CITY OF COQUITLAM
Intersection Graphics – Basic Design Layout
GUILDFORD WAY @ LANSDOWNE DR

Guildford@Lansdowne-Basic TSS7850.dwg LCP Apr 08, 2006 11:00

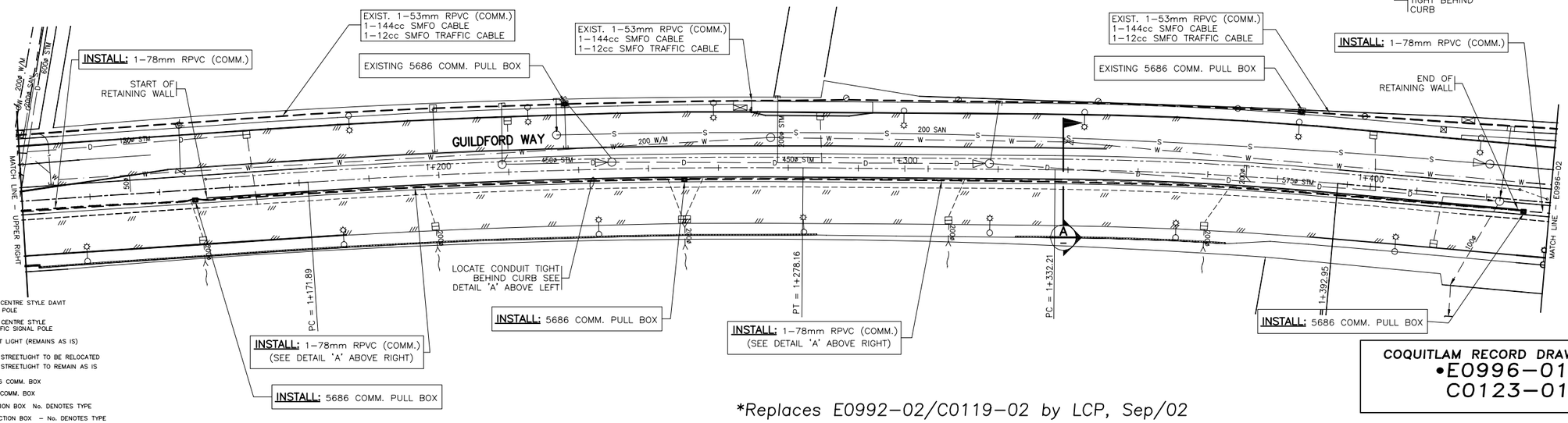


X-SECTION A
N.T.S.



This photocopy is supplied by the City of Coquitlam for general information only and the accuracy of the information contained on the document is in no way guaranteed by the City.

Note:
Location of existing utilities shown are approximate and should be confirmed by pipe locator and manual digging. All or any existing structures are not necessarily shown.



LEGEND

- EXISTING TOWN CENTRE STYLE DAVIT TRAFFIC SIGNAL POLE
- EXISTING TOWN CENTRE STYLE PEDESTAL TRAFFIC SIGNAL POLE
- EXISTING STREET LIGHT (REMAINS AS IS)
- EXISTING DAVIT STREETLIGHT TO BE RELOCATED
- EXISTING DAVIT STREETLIGHT TO REMAIN AS IS
- PROPOSED 5686 COMM. BOX
- EXISTING 5686 COMM. BOX
- EXISTING JUNCTION BOX No. DENOTES TYPE
- PROPOSED JUNCTION BOX - No. DENOTES TYPE
- TRAFFIC CONTROLLER
- SERVICE PANEL
- EXISTING ELECTRICAL CONDUIT
- PROPOSED ELECTRICAL CONDUIT
- EXISTING COMMUNICATIN CONDUIT
- PROPOSED COMMUNICATION CONDUIT
- LX 1.8m ROUND VEHICLE DETECTOR LOOP

ALL UTILITY LOCATIONS ARE APPROXIMATE AND FINAL CONFIRMATION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR PRIOR TO ANY EXCAVATION.

*Replaces E0992-02/C0119-02 by LCP, Sep/02

SITE PLAN
0 1:500 20

	EXISTING	PROPOSED		EXISTING	PROPOSED		EXISTING	PROPOSED		EXISTING	PROPOSED
Edge of pavement			Drainage sewer and MH	D	D	Sanitary sewer and MH	S	S	U/G signal/light duct	L	L
Asphalt curb			Drainage service	D	D	Sanitary service	S	S	Streetlight, davit		
Concrete sidewalk			Catch basin, top inlet			Sanitary sewer, forcemain	FS	FS	Streetlight, post top		
Concrete curb			Catch basin, side inlet			U/G electrical duct and MH	E	E	Traffic signal pole		
Watermain and valve	W	W	Catch basin, round			Utility pole			Traffic signal post		
Water service box/curb stop	W	W	Swale			Utility pole with light			Traffic street sign		
Hydrant	H	H	Ditch			Junction box			Flasher		
Water blowoff	W	W	Culvert			U/G telephone and MH	T	T	Signal fixture		
Water air valve	W	W	Inlet/Outlet Structure			U/G gas main and valve	G	G	Combination traffic signal pole		

REV. No.	DATE	REVISION
6		
5		
4		
3		
2		
1	FEB. 22/05	ISSUED FOR TENDER (COMM DUCT REDUCED TO 1x78)
-	FEB. 8/05	ISSUED FOR TENDER

Destroy All Prints Bearing Rev. No. less than one indicated above

COQUITLAM RECORD DRAWING NO
•E0996-01
C0123-01

2005 GUILFORD WAY BIKEWAY PROJECT
SHEET 1 OF 7

LCP Signal Management Inc.
1447 Gabriola Drive
Coquitlam, B.C.
V3E 2C6
Ph: (604)-942-3631
Fax: (604)-945-9809

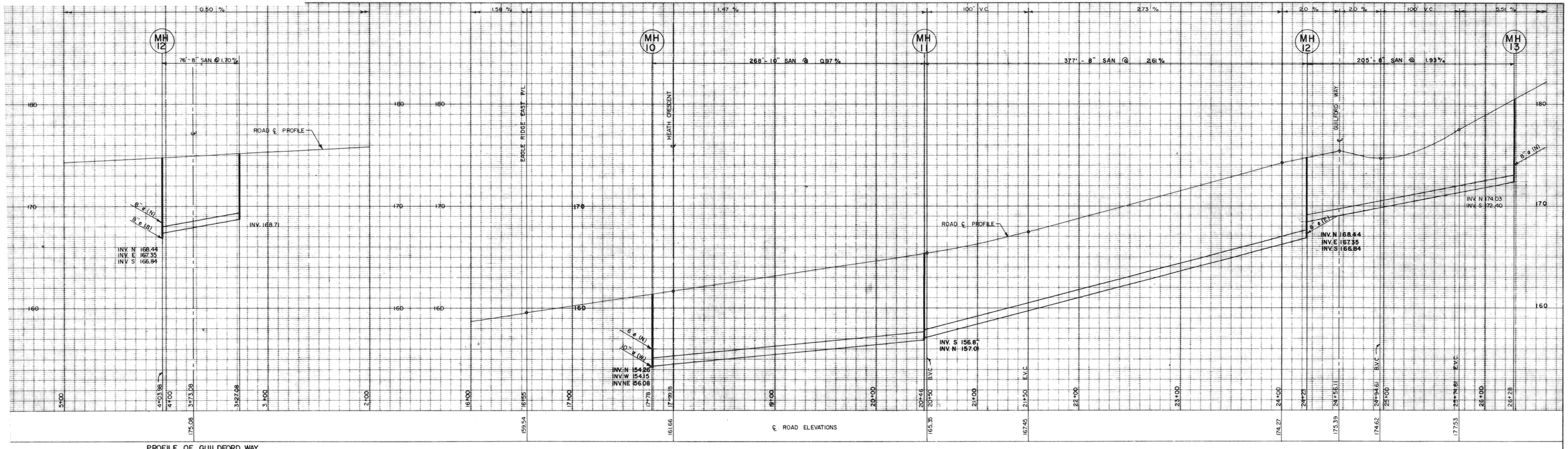
CITY OF COQUITLAM — **Engineering & Public Works**

DESIGNED -	C.D.C
DRAWN -	L.C.P.
METRIC SCALE -	1:500
CHECKED -	L.R.M.
DATE -	FEB. 8/2005

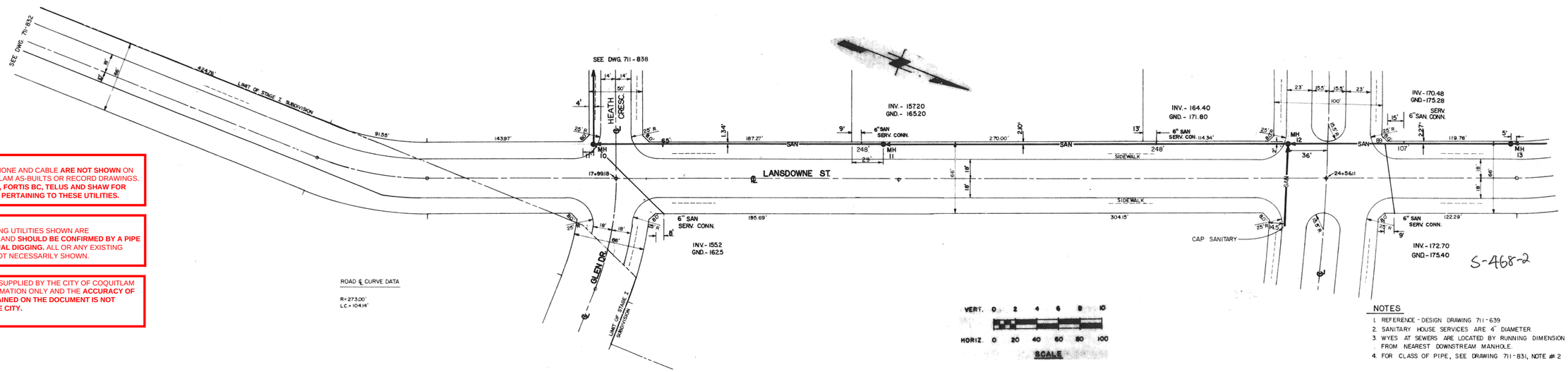
GUILDFORD WAY LANSDOWNE DRIVE TO PACIFIC STREET PLAN VIEW

DWG FILE: PJ2005-07
SHEET 1 OF 7
REVISION NO. 1

Comm and Lighting Design Work - REV 1.dwg FEB 22, 2005 20:30 LCP



PROFILE OF GUILDFORD WAY



ROAD ℄ CURVE DATA

R = 273.00'
L.C. = 104.14'

VERT. 0 2 4 6 8 10
HORIZ. 0 20 40 60 80 100
SCALE

IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

NOTES

1. REFERENCE - DESIGN DRAWING 711-639
2. SANITARY HOUSE SERVICES ARE 4" DIAMETER.
3. WYES AT SEWERS ARE LOCATED BY RUNNING DIMENSION FROM NEAREST DOWNSTREAM MANHOLE.
4. FOR CLASS OF PIPE, SEE DRAWING 711-831, NOTE # 2

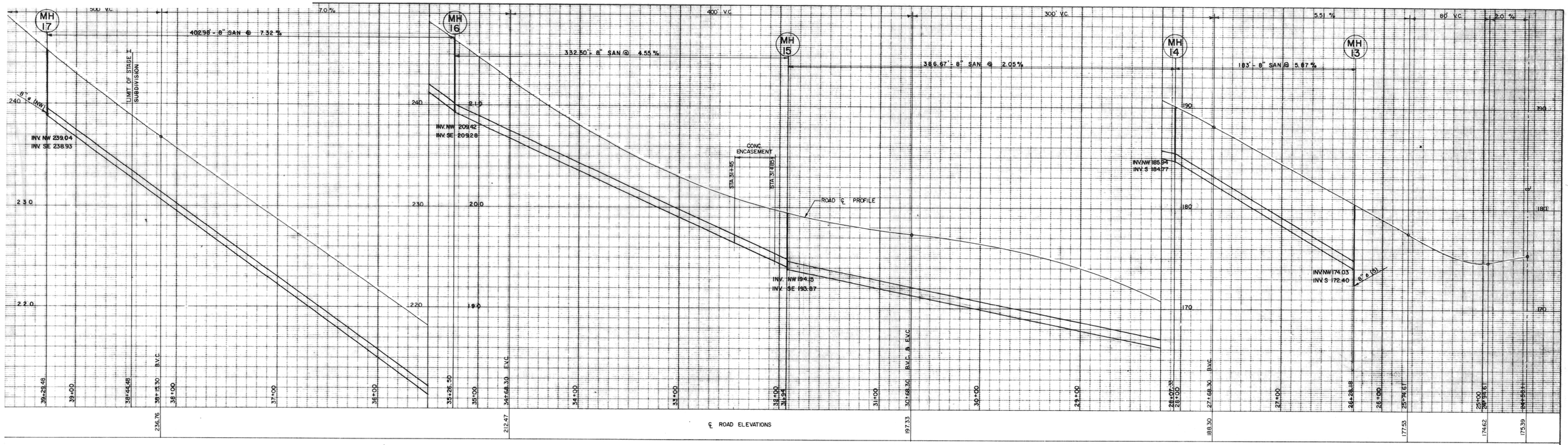
REVISION	DATE	BY	NO	REVISION	DATE	BY

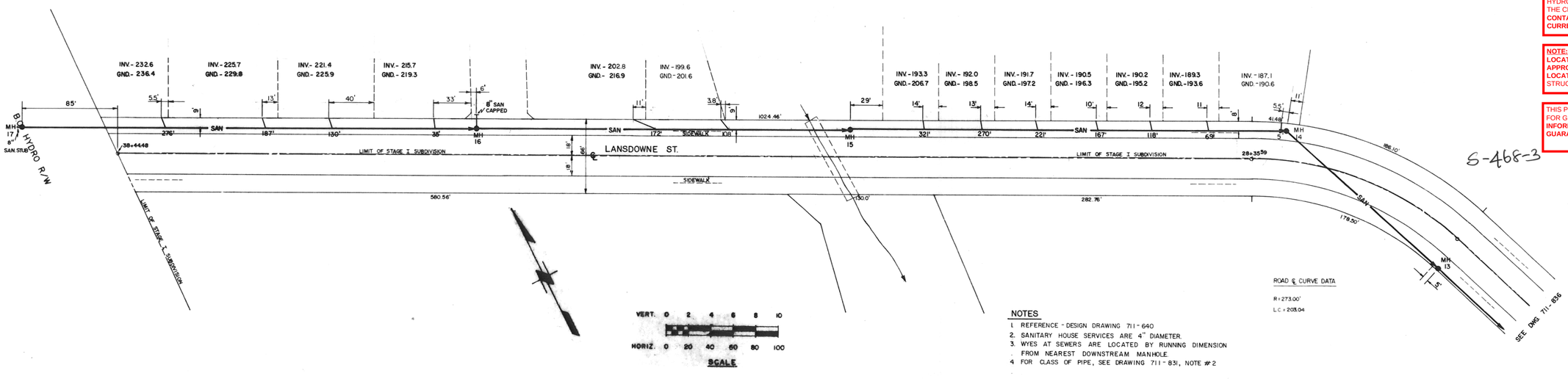
B.A.C.M. DEVELOPMENT CORPORATION LIMITED

EAGLE RIDGE SUBDIVISION STAGE I
SANITARY SEWER AS CONSTRUCTED
LANSDOWNE STREET STA 12+50 TO 26+50

DESIGN - C.L.M.	FILE NO.
DRAWN - F.K.Y.	DRAWING NO. / REV.
CHECKED - C.F.F.	711 - 833
DATE JAN. 17 1978	SCALE AS SHOWN

S-468-2





VERT. 0 2 4 6 8 10
HORIZ. 0 20 40 60 80 100
SCALE

ROAD ℄ CURVE DATA
R = 273.00'
LC = 203.04

NOTES
1. REFERENCE - DESIGN DRAWING 711 - 640
2. SANITARY HOUSE SERVICES ARE 4" DIAMETER.
3. WYES AT SEWERS ARE LOCATED BY RUNNING DIMENSION FROM NEAREST DOWNSTREAM MANHOLE.
4. FOR CLASS OF PIPE, SEE DRAWING 711 - 831, NOTE #2

IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

S-468-3

NO	REVISION	DATE	BY	NO	REVISION	DATE	BY

BACM DEVELOPMENT

B.A.C.M. DEVELOPMENT CORPORATION LIMITED

EAGLE RIDGE SUBDIVISION STAGE I
SANITARY SEWER AS CONSTRUCTED
LANSDOWNE STREET STA. 26+00 TO 39+50

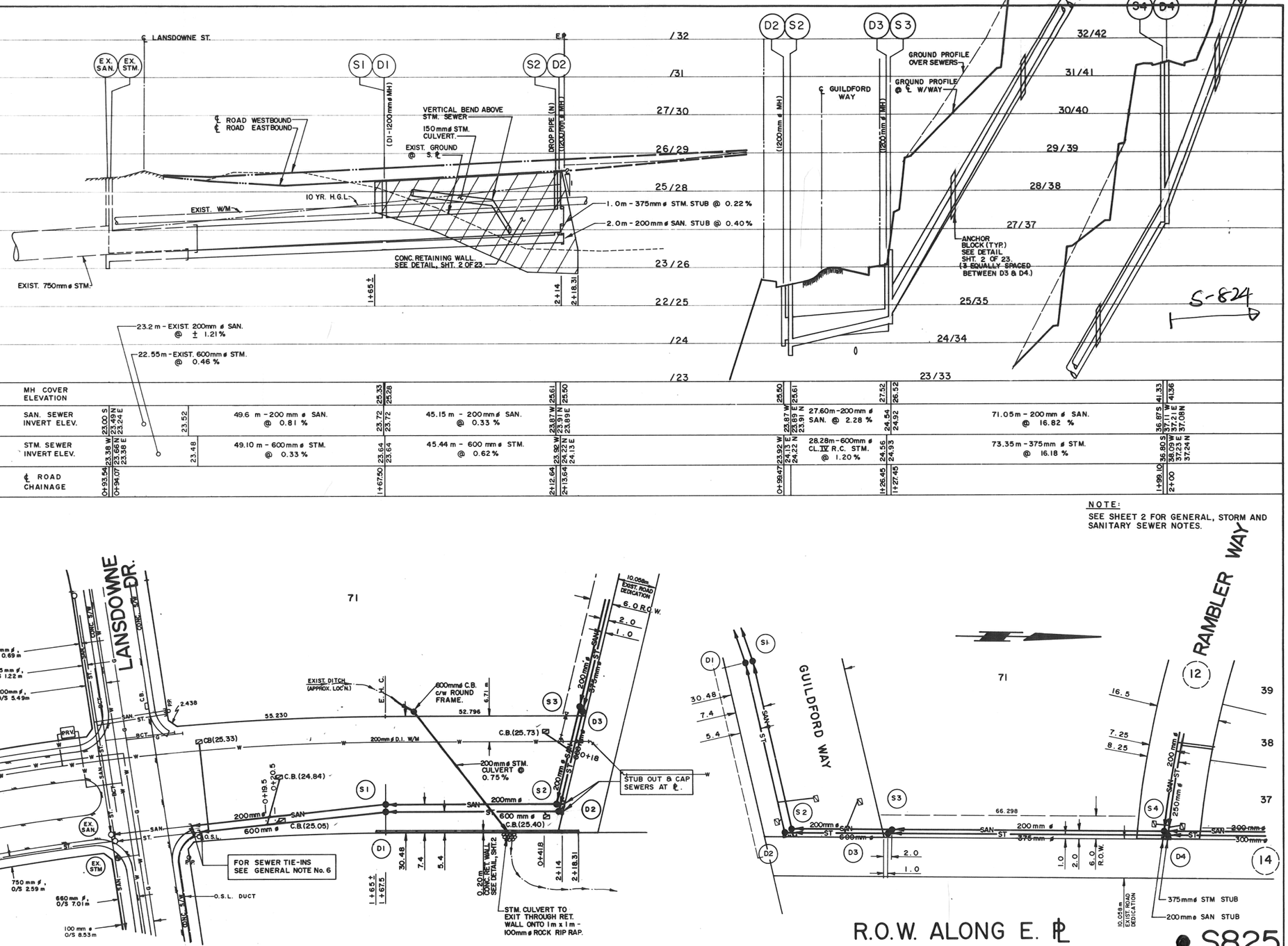
DESIGN - C.L.M.	FILE NO.
DRAWN - F.K.Y.	DRAWING NO. 711 - 834
CHECKED - C.F.F.	REV.
DATE JAN. 19 1978	SCALE AS SHOWN

S-468-3

IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**



NOTE:
SEE SHEET 2 FOR GENERAL, STORM AND SANITARY SEWER NOTES.

APLIN & MARTIN ENGINEERING LTD.
8911-152nd ST., SURREY, B.C. PH. 588-8541

Legend

	Proposed	Existing
STORM SEWER	ST	ST
SAN SEWER	SAN	SAN
GAS	G	G
WATER	W	W
UG ELECTRIC	BCH	BCH
UG TELEPHONE	BCT	BCT
VALVE		
MANHOLE		

DITCH, UTILITY POLE, FIRE HYDRANT, IRON PIN, BASEMENT ELEV (LL RT), EDGE OF PVMT, INTEG SURVEY MON

STORM INLET TYPES - I, II, III, IV

PROFESSIONAL ENGINEER PROVINCE OF B.C. C. A. COWAN

REV'N	DATE	DR'N	CH'D	
4	NOV. 1986	L.B.	M.S.	AS CONSTRUCTED
3	FEB 1986	[illegible]	CAC	CULVERT SIZE, PROFILE D3 TO D4, DROP PIPES DELETED.
2	JAN. 1986	[illegible]	CAC	WATER, STM. CULVERT, CB's, RETAINING WALL.
1	SEPT. 1985	L.R.P.		AS REQ'D BY COQUITLAM.

DISTRICT OF COQUITLAM Engineering Department

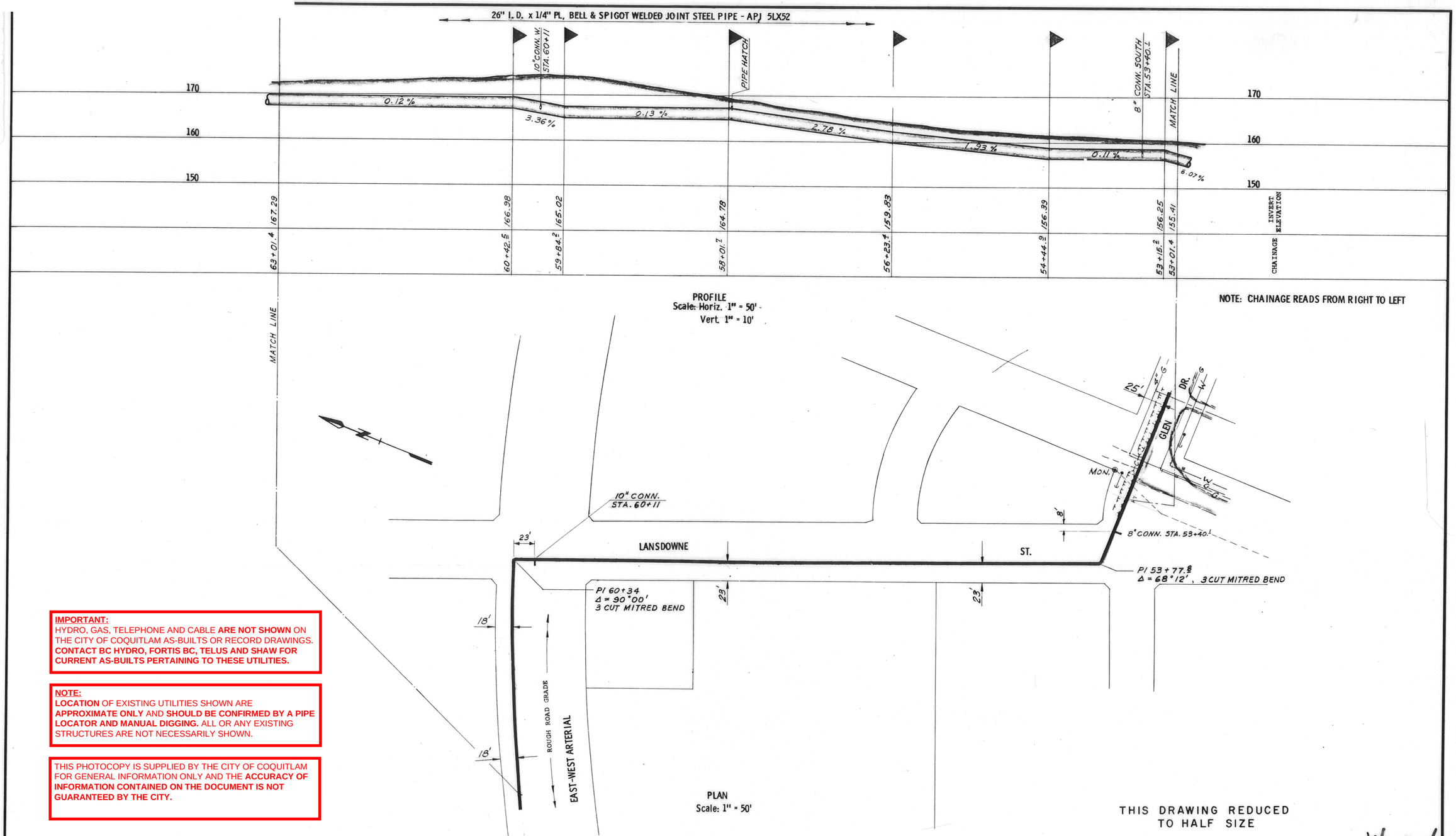
DESIGNED - C. A. C.
DRAWN - R. L. D. /
METRIC SCALE - 1:500 / 1:50
APPROVED -
DATE - AUG., 1984

GENSTAR DEVELOPMENT COMPANY
SUITE 400-15225 104 AVE., SURREY, B.C. V3R 6Y8 PH. 584-8511

STORM AND SANITARY SEWERS
GUILDFORD WAY AND R.O.W. ALONG E. ℄

FILE -
CONSULTANTS DWG No - 84949
DISTRICT DWG No -
SHEET 15 OF 23

659 6



IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

W-659-6

DRAWING SYMBOLS

PORT MOODY MAIN No. 2
TRAVERSE HUB
IPF IRON POST FOUND
OP WOODEN POST FOUND
HEDGE, TREE
POWER POLE
TELEPHONE POLE
GUY WIRE OR ANCHOR POLE
W WATER MAIN
WATER VALVE BOX
WH WATER HOUSE CONNECTION
FIRE HYDRANT
S SEWER (EXISTING)
D STORM DRAIN
CB CATCH BASIN
C CULVERT
G GAS MAIN
GH GAS HOUSE CONNECTION
O OIL PIPELINE
T UNDERGROUND TEL. CABLES
LPF LEAD PLUG FOUND
E UNDERGROUND ELEC. CABLES
LAMP STANDARD
BASEMENT OR MAIN FLOOR ELEV.
DITCH
PAVEMENT
ROCKERIES
FENCE
RODDING INLET OR INSP CHAMBER
SH SEWER HOUSE CONN.
TP = TRUNK PRESSURE

Notes:
1. All elevations refer to G.V.W.D. datum. G. V. W. D. 91.37 - 0.00 Geodetic.
2. Chainages shown in brackets refer to Preliminary Survey Line.

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA J. G. MEEK

GRADE BREAK
AIR VALVE (A.V.)
BLOWDOWN (B.D.)

Issue	Date	Des'n	Dr'n	Chkd	App'd	Description
D	APR.'77	rpm	DCA	rpm	BFT	AS CONSTRUCTED
C	OCT. '76	rpm	H.K	rpm	BFT	REVISED GRADE BETWEEN 53+07.4 TO 53+27.4
B	OCT. '76	rpm	H.K	rpm	BFT	REVISED CONN. SIZE 1010", GENERAL NOTE 6 GRADE AND MOVED PIPE HATCH

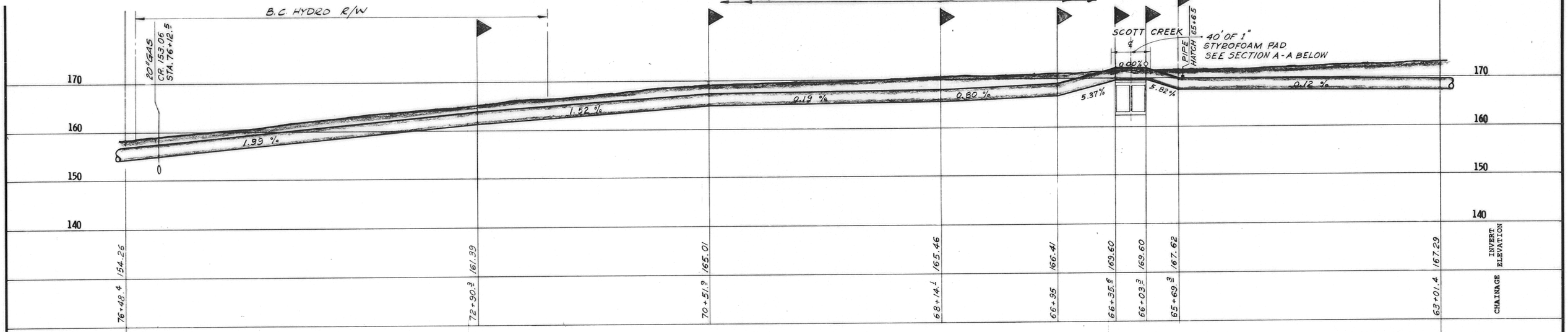
GREATER VANCOUVER WATER DISTRICT

Design J.G.M.
Des. Chkd. rpm
Drawn/Tr. D.W./H.K.
Dwg. Chkd. BFT
Submitted
Engineer

PORT MOODY MAIN No. 2
COQUITLAM SECTION
PLAN AND PROFILE

SCALE: As Shown
DATE: August 1976
Sheet 6
DRAWING NO. WF-1409

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → D

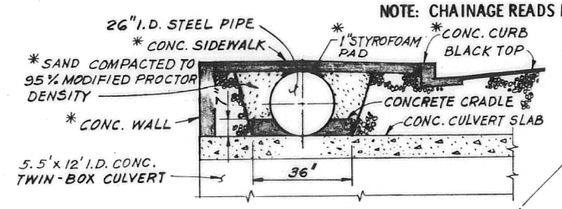


IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

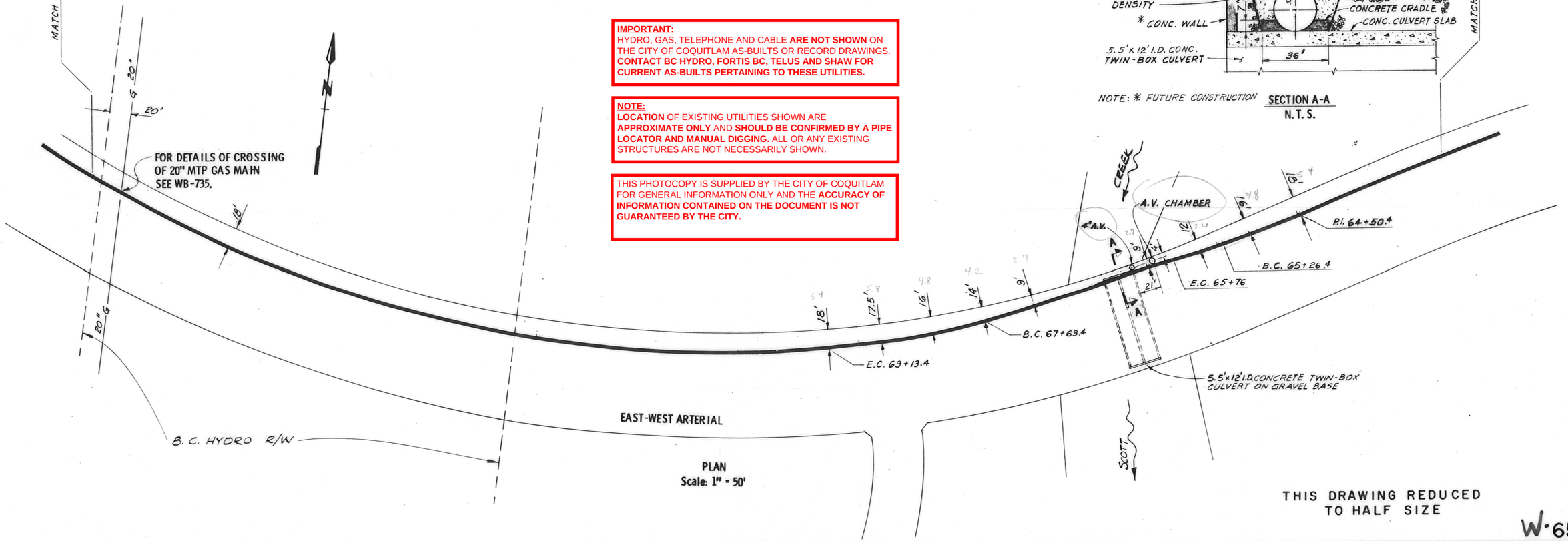
THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

NOTE: CHAINAGE READS FROM RIGHT TO LEFT



NOTE: * FUTURE CONSTRUCTION

SECTION A-A
N.T.S.



PLAN
Scale: 1" = 50'

THIS DRAWING REDUCED TO HALF SIZE

W-6597

DRAWING SYMBOLS

- PORT MOODY MAIN No. 2
- TRAVERSE HUB
- IPF IRON POST FOUND
- OP WOODEN POST FOUND
- HEDGE, TREE
- POWER POLE
- TELEPHONE POLE
- GUY WIRE OR ANCHOR POLE
- W WATER MAIN
- WATER VALVE BOX
- WH WATER HOUSE CONNECTION
- FIRE HYDRANT
- S SEWER (EXISTING)
- D STORM DRAIN
- CB CATCH BASIN
- C CULVERT
- G GAS MAIN
- GH GAS HOUSE CONNECTION
- O OIL PIPELINE
- T UNDERGROUND TEL. CABLES
- LPF LEAD PLUG FOUND
- E UNDERGROUND ELEC. CABLES
- LAMP STANDARD
- BASEMENT OR MAIN FLOOR ELEV.
- DITCH
- PAVEMENT
- ROCKERIES
- FENCE
- RODDING INLET OR INSP CHAMBER
- SH SEWER HOUSE CONN.
- TP = TRUNK PRESSURE
- GRADE BREAK
- AIR VALVE (A.V.)
- BLOWDOWN (B.D.)

Notes:
1. All elevations refer to G.V.W.D. datum. G.V.W.D. 91.37 = 0.00 Geodetic.

PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — J. O. MEEK

Issue	Date	Desn	Dr'n	Chkd	App'd	Description
C	APR.'77	J.M.	DCA	BST	BST	AS CONSTRUCTED
B	OCT'76	J.M.	H.K.	BST	BST	REVISED GENERAL NOTE FROM 1.3 FT. TO READ 0.6 FT, GRADE.

GREATER VANCOUVER WATER DISTRICT

Design L.Q.M.
Des. Chkd. S.P.M.
Drawn/Tr. D.W./N.K.
Dwg. Chkd. B.S.T.
Submitted
Engineer

PORT MOODY MAIN No. 2
COQUITLAM SECTION
PLAN AND PROFILE

SCALE As Shown
DATE August 1976
Sheet 7
DRAWING NO. WF-1409

SUPERSEDES PRINTS OF THIS NUMBER WITH LETTERS PREVIOUS TO → C

IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

343.40' - 6" @ 7.0 %
1240'-8" @ 7.0 %
140.0'-8" @ 4.23 %
300.0' - 8" @ 1.59 %
156.39' - 8" @ 4.22 %
250.0' - 8" @ 5.73 %
35.35'-8" @ 0.0 %

LIMIT OF STAGE I SUBDIVISION
38+44.48
38+37.40
38+00
37+00
36+00
35+00
34+94
34+00
33+00
32+50
31+00
30+00
29+30
29+00
28+00
27+70
27+00
26+00
25+28
24+89.65
24+84.65
24+56.11
233.78
209.74
201.06
195.14
190.37
183.77
171.95
171.95

6" WM.
℄ ROAD PROFILE
℄ ROAD PROFILE
℄ ROAD PROFILE
CONCRETE ENCASEMENT
32+15
31+85
PULLED VERT. JOINT
PULLED VERT. JOINT
PULLED VERT. JOINT
INV. ELEV. OF WATERMAIN
GUILDFORD WAY
DUCTILE IRON PIPE CONCRETE ENCASEMENT
SAN.
ST.
6" WM.(E) 172.04
8" WM.(S) 171.95
8" WM.(W) 171.96

B.C. HYDRO R/W
38+44.48
38+39
37+89
LIMIT OF STAGE I SUBDIVISION
BLOW OFF
LIMIT OF STAGE I SUBDIVISION
32'
34'
27'
ST.
SAN.
2.56
TEMPORARY END SEE DWG. 711-677
34+98
34+90
34+78
34+77
6" ∅ A.C. PIPE
580.56'
8" ∅ SERV CONN
SIDEWALK
LANSDOWNE ST.
1024.46'
4.5'
SIDEWALK
SAN.
ST.
21'
22'
32'
14'
21'
23'
39'
41.48'
LIMIT OF STAGE I SUBDIVISION
29+80
29+73
8" ∅ A.C. PIPE
282.10'
E.C. 28+35.59
28+25
6" ∅ SERV CONN
186.10'
178.50'
SAN.
ST.
B.C. 26+38.55
SEE DETAIL 'A' DWG. 711-680
FOR CONTINUATION SEE DWG. 711-680
EXISTING 8" WM.
TEMPORARY END
GUILDFORD WAY
24+56.11
FOR CONTINUATION SEE DWG. 711-679

WATERMAIN CURVE DATA
Δ = 42° 36' 45"
R = 258.00'
L.C. = 191.88'

ROAD ℄ CURVE DATA
Δ = 42° 36' 45"
R = 273.00'
L.C. = 203.04'

VERT 0 2 4 6 8 10
HORIZ 0 20 40 60 80 100
SCALE

LEGEND
WATERMAIN
VALVE
HYDRANT ASSEMBLY

NOTES
1. FOR GENERAL NOTES, SEE DWG. 711-667

W 679-10

REVISION	DATE	BY	NO	REVISION	DATE	BY
			3	WATERMAIN AS CONSTRUCTED	2/2/78	F.K.Y.
			2	LINE VALVE RELOCATED & WATERMAIN REV'D	205/77	J.L.H.
			1	WATERMAIN REVISED	4/4/77	R.T.W.

B.A.C.M. DEVELOPMENT CORPORATION LIMITED

EAGLE RIDGE SUBDIVISION STAGE I
WATERMAIN AS CONSTRUCTED
LANSDOWNE ST. STA. 24+84.65 TO 38+44.48

DESIGN - R.T.W.
DRAWN - J.L.H. & K.F.B.
CHECKED - C.L.M.
DATE SEPT. 28, 1976
SCALE AS SHOWN
FILE NO.
DRAWING NO. 711-678
REV. 3

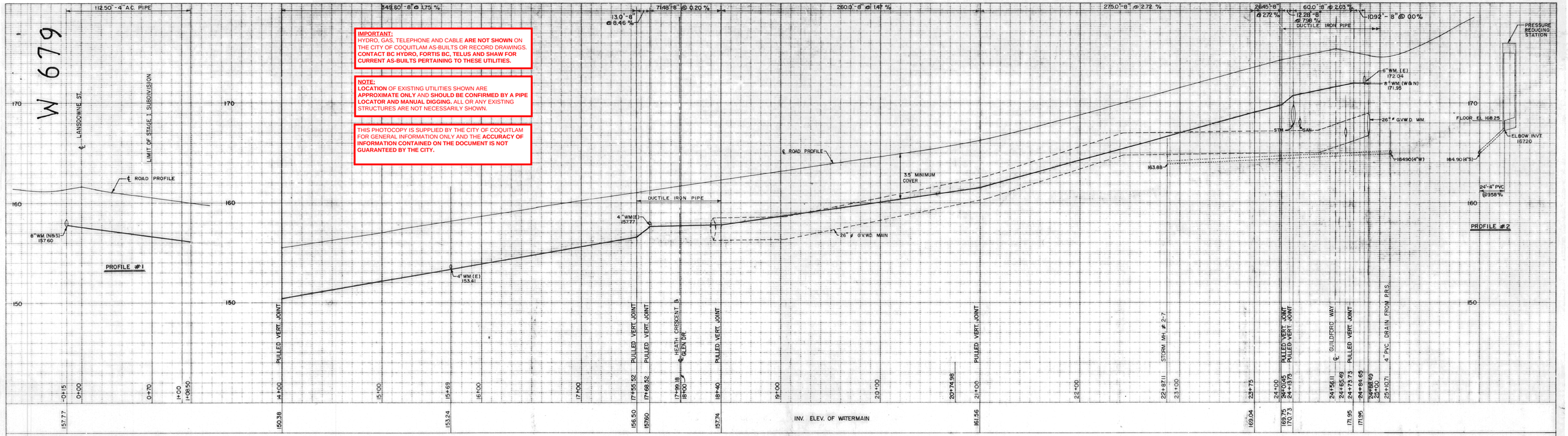
679

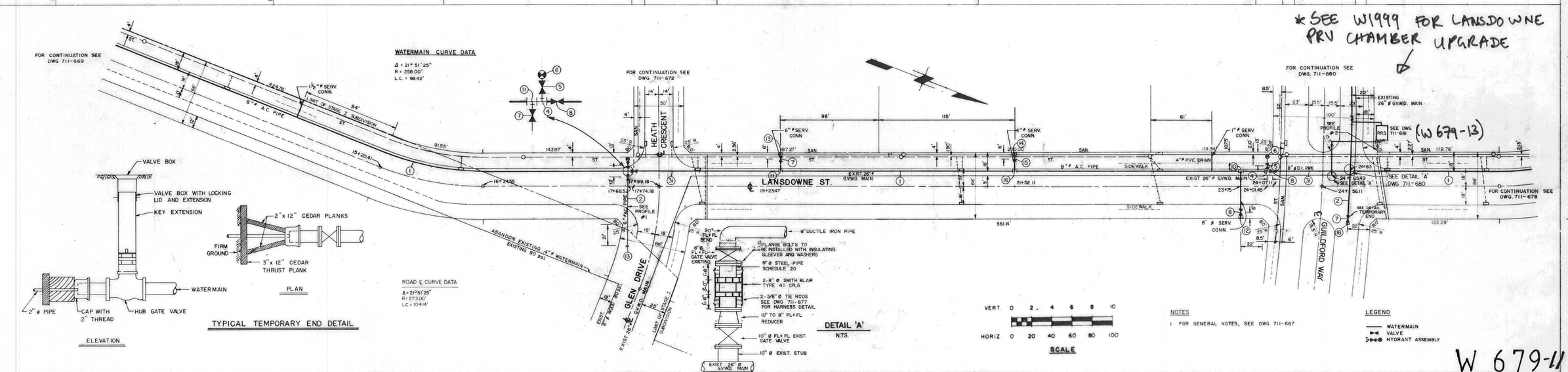
W 679

IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**





*SEE W1999 FOR LANSDOWNE PRV CHAMBER UPGRADE

W 679-11

NO	REVISION	DATE	BY
5	WATERMAIN AS CONSTRUCTED	2/2/78	F.K.Y.
4	WATERMAIN REV'D ON GLEN DR.	2/8/77	D.J.R.
3	WATERMAIN, DETAIL 'A' & P.R.S. REVISED	19/5/77	J.L.H.
2	WATERMAIN, HYDRANTS AND SERV. CONN. REV'D ; DETAIL 'A' ADDED	5/4/77	R.T.W.
1	ROAD 'H' DELETED, WATERMAIN REVISED	21/3/77	R.T.W.

BACM

B.A.C.M. DEVELOPMENT CORPORATION LIMITED

EAGLE RIDGE SUBDIVISION STAGE I
WATERMAIN AS CONSTRUCTED
LANSDOWNE ST. STA. 14+00 TO 24+84.65

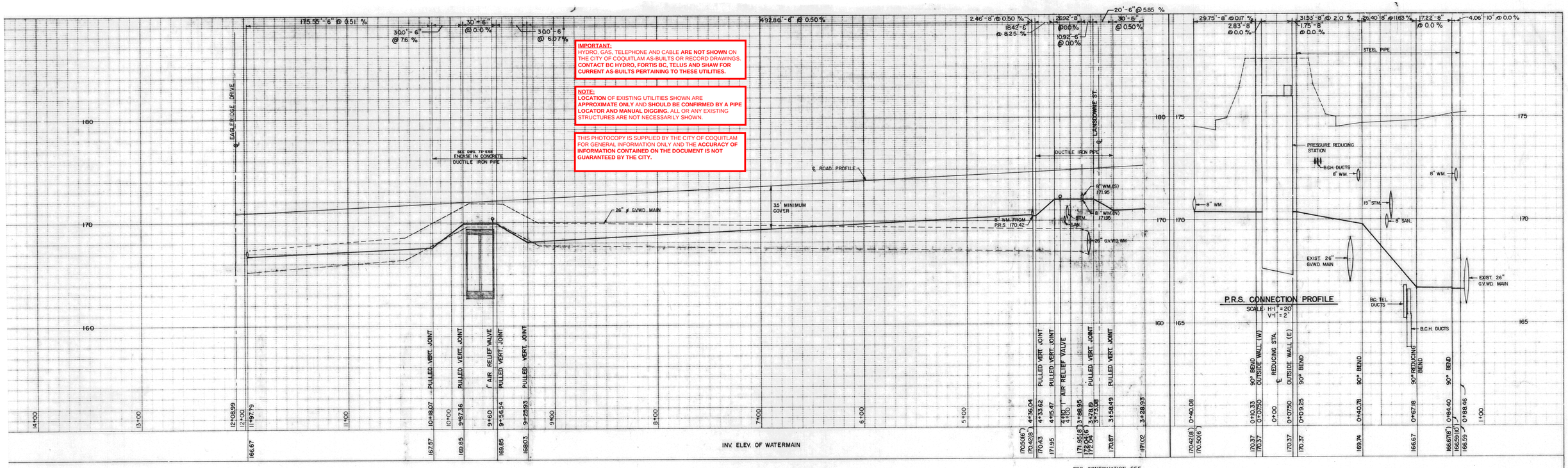
DESIGN - C.L.M. & R.T.W.	
DRAWN - J.L.H. & K.F.B.	
CHECKED - C.L.M. & R.T.W.	
DATE: SEPT. 27, 1976	SCALE: AS SHOWN
FILE NO.	
DRAWING NO.	711 - 679
REV.	5

679

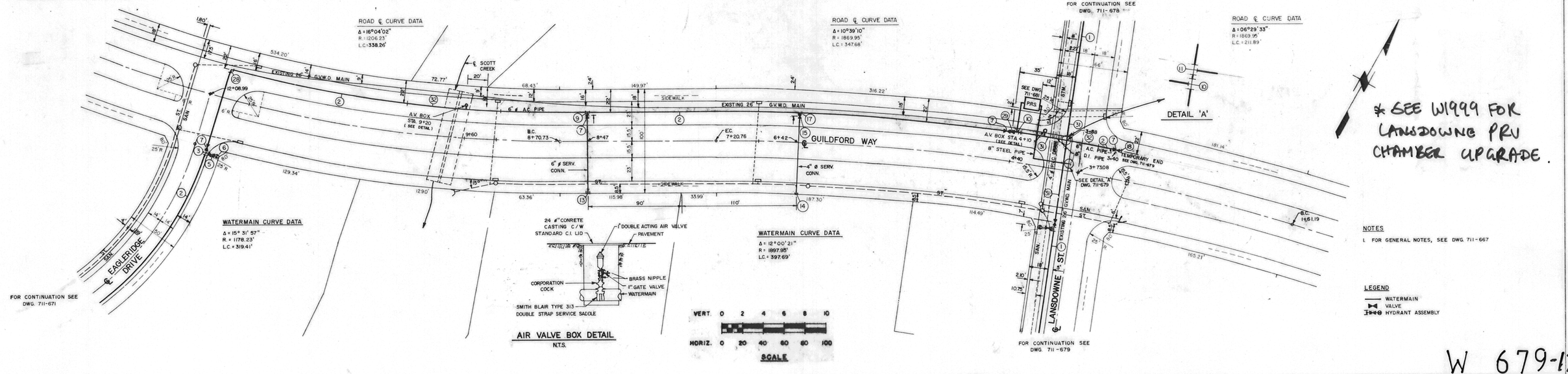
IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**



P.R.S. CONNECTION PROFILE
SCALE: H-1" = 20'
V-1" = 2'



* SEE W1999 FOR LANSDOWNE PRV CHAMBER UPGRADE.

NOTES
1. FOR GENERAL NOTES, SEE DWG. 711-667

LEGEND
WATERMAIN
VALVE
HYDRANT ASSEMBLY

REVISION	DATE	BY	NO	REVISION	DATE	BY
			3	DUCTILE IRON PIPE ADDED	2/8/77	D.J.R.
			2	WATERMAIN REVISED & PROFILE ADDED	20/5/77	J.L.H.
S CONSTRUCTED	2/2/78	F.K.Y.	1	WATERMAIN REV'D, AIR VALVE BOX DETAIL ADDED	6/4/77	R.T.W.

B.A.C.M. DEVELOPMENT CORPORATION LIMITED

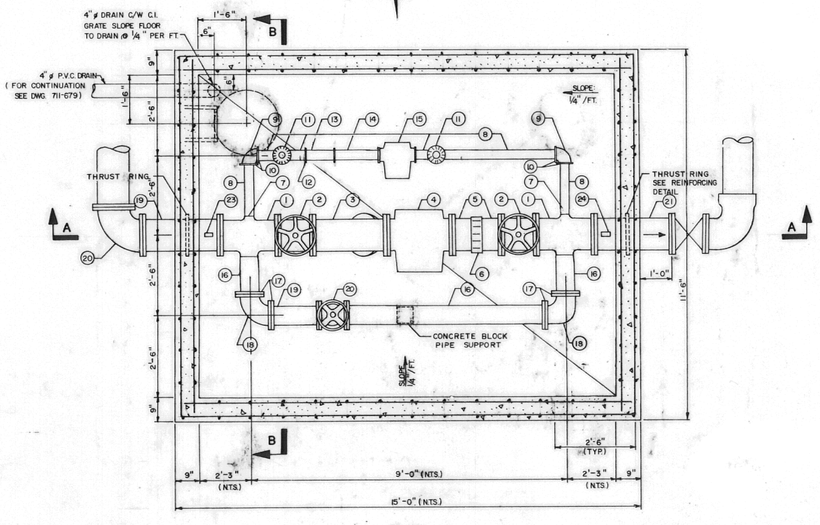
H.V. FRISSEL ENGINEERING CONSULTANTS

EAGLE RIDGE SUBDIVISION STAGE I
WATERMAIN AS CONSTRUCTED
GUILDFORD WAY

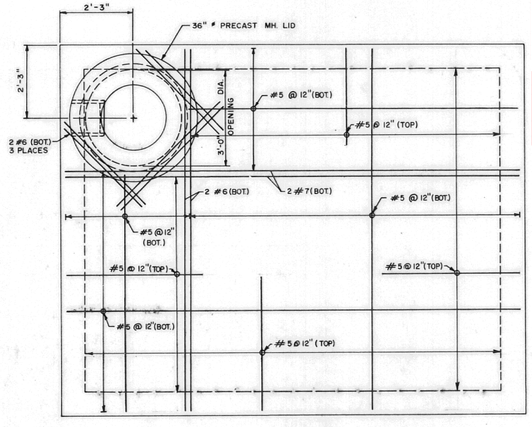
DESIGN - R.T.W.
DRAWN - K.F.B.
CHECKED - C.L.M.
DATE DEC. 7, 1976
SCALE AS SHOWN
FILE NO.
DRAWING NO. 711-680
REV. 3

W 679-12

679



PLAN
SCALE: 1/2" = 1'-0"



ROOF PLAN
SCALE: 1/2" = 1'-0"

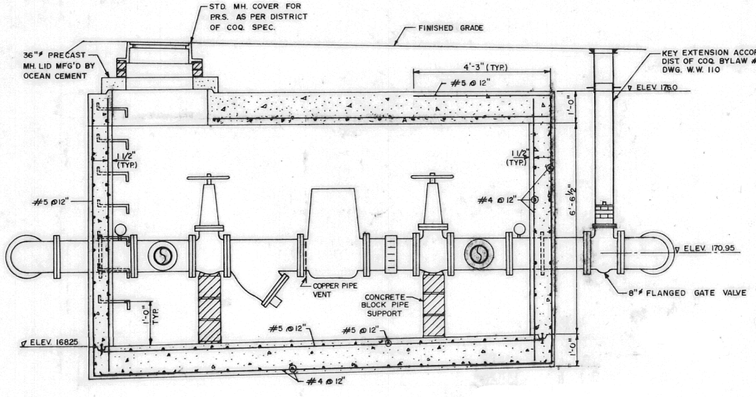
IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

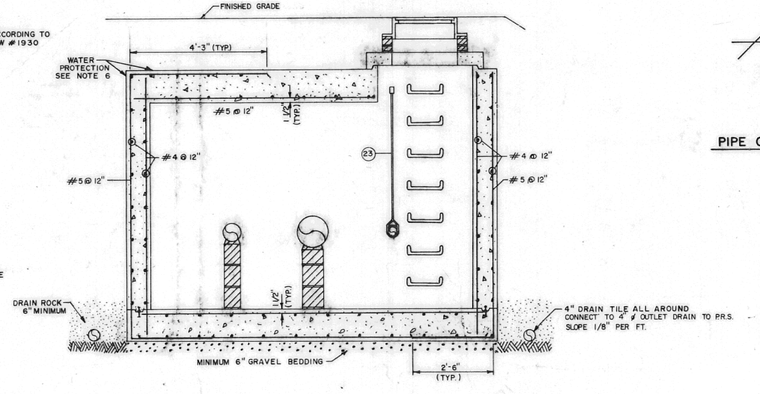
THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

BILL OF MATERIALS

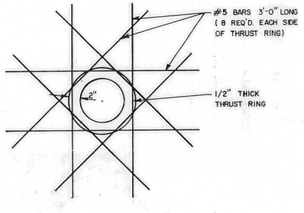
MARK	SIZE	NO. REQ'D	DESCRIPTION
1	—	2	8 x 8 x 4 x 4 C.I. CROSS FLANGED
2	8"	2	GATE VALVE, (RED & WHITE 175)
3	8"	1	WYE STRAINER (RED & WHITE 125) c/w BLOWOFF VALVE
4	8"	1	PRESSURE REDUCING VALVE (SINGER 106 PR) S.S. TRIM, SET TO MAINTAIN A DOWNSTREAM PRESSURE OF 139 P.S.I.
5	8"	2	STEEL PIPE, FLANGE x VICTAULIC, LENGTH 8'-4", INT. & EXT. COATED AWWA. C203.
6	8"	1	VICTAULIC COUPLING (TERMINAL CITY)
7	—	2	3 x 9 REDUCING ADAPTER THREADED VICTAULIC
8	3"	9	3" SCHEDULE 40 STEEL PIPE, THREADED x VICTAULIC GALVANIZED LENGTH: 1 @ 2.90', 1 @ 3.03', 2 @ 1.64', 1 @ 1.33', 1 @ 1.02', 1 @ 1.42', 1 @ 0.35'
9	3"	2	90° ELBOW (VICTAULIC)
10	3"	2	VICTAULIC COUPLING
11	3"	2	GATE VALVE (RED & WHITE 125 S)
12	3"	2	ADAPTER THREADED x FLANGE
13	3"	1	WYE STRAINER (TOYO 125 S)
14	3"	1	SCHEDULE 40 STEEL PIPE, GALVANIZED FLANGE x FLANGE
15	3"	2	PRESSURE REDUCING VALVE (SIMPER 106 PR) S.S. TRIM, SET TO MAINTAIN A DOWNSTREAM PRESSURE OF 139 P.S.I.
16	4"	3	STEEL PIPE GALVANIZED THREADED x VICTAULIC
17	4"	2	VICTAULIC COUPLING
18	4"	2	90° ELBOW (VICTAULIC)
19	4"	2	STEEL PIPE FLANGE x VICTAULIC, GALVANIZED, LENGTH 1.82'
20	4"	1	GATE VALVE (RED & WHITE 125)
21	8"	2	STEEL PIPE FLANGE EACH END x 2'-3" LONG, INT. & EXT. COATED AWWA C 203
22	8"	1	90° ELBOW (CRANE NO. 525)
23	—	1	PRESSURE GAUGE
24	—	1	PRESSURE GAUGE (DANTON SERIES 800, 0-200 P.S.I. c/w 1/4" HANDLE COCK & SNUBBER



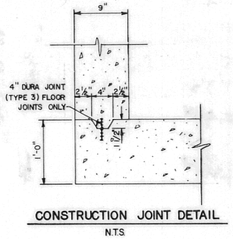
SECTION A-A
SCALE: 1/2" = 1'-0"



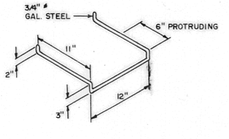
SECTION B-B
SCALE: 1/2" = 1'-0"



PIPE OPENING REINFORCING DETAIL
N.T.S.



CONSTRUCTION JOINT DETAIL
N.T.S.



LADDER RUNG DETAIL
N.T.S.

NOTES

1. ALL CONSTRUCTION TO CONFORM TO DISTRICT OF COQUITLAM STANDARDS.
2. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 4000 P.S.I. @ 28 DAYS.
3. ALL GALVANIZING TO BE HOT DIP GAL. IN ACCORDANCE WITH CSA G614.
4. ALL PARTS TO BE SUPPLIED AS SPECIFIED OR APPROVED EQUAL.
5. ALL REINFORCING STEEL SHALL HAVE A YIELD STRENGTH OF 60,000 P.S.I.
6. WATER PROOFING SHALL CONSIST OF TWO COATS OF STATIC ASPHALT PROTECTIVE COATING TYPE # 1 AS MADE BY FLINTKOTE CO. OF CANADA, OR APPROVED EQUIVALENT, AND SHALL BE APPLIED TO ALL EXTERIOR FACES OF CONCRETE WALLS FROM FOUNDATION TO GRADE AND ALL BELOW GRADE ROOFS.

* SEE W1999 FOR LANSDOWNE PRV CHAMBER UPGRADE.

NO	REVISION	DATE	BY
4	AS CONSTRUCTED	16/5/78	K.F.B.

NO	REVISION	DATE	BY
3	DETAILS ADDED AND REINFORCING REV'D.	28/6/77	D.J.R.
2	PRESSURE REDUCING STATION REVISED	24/5/77	J.L.H.
1	PIT DRAINER REMOVED AND P.R.S. REVISED	12/4/77	C.L.M.

B.A.C.M. DEVELOPMENT CORPORATION LIMITED

EAGLE RIDGE SUBDIVISION STAGE I
WATERMAIN DESIGN
PRESSURE REDUCING STATION - DETAILS

DESIGN - R.T.W.	
DRAWN - J.L.H.	
CHECKED - C.L.M.	
DATE FEB. 3, 1977	SCALE AS SHOWN

FILE NO. 711-681
DRAWING NO. 4
REV.

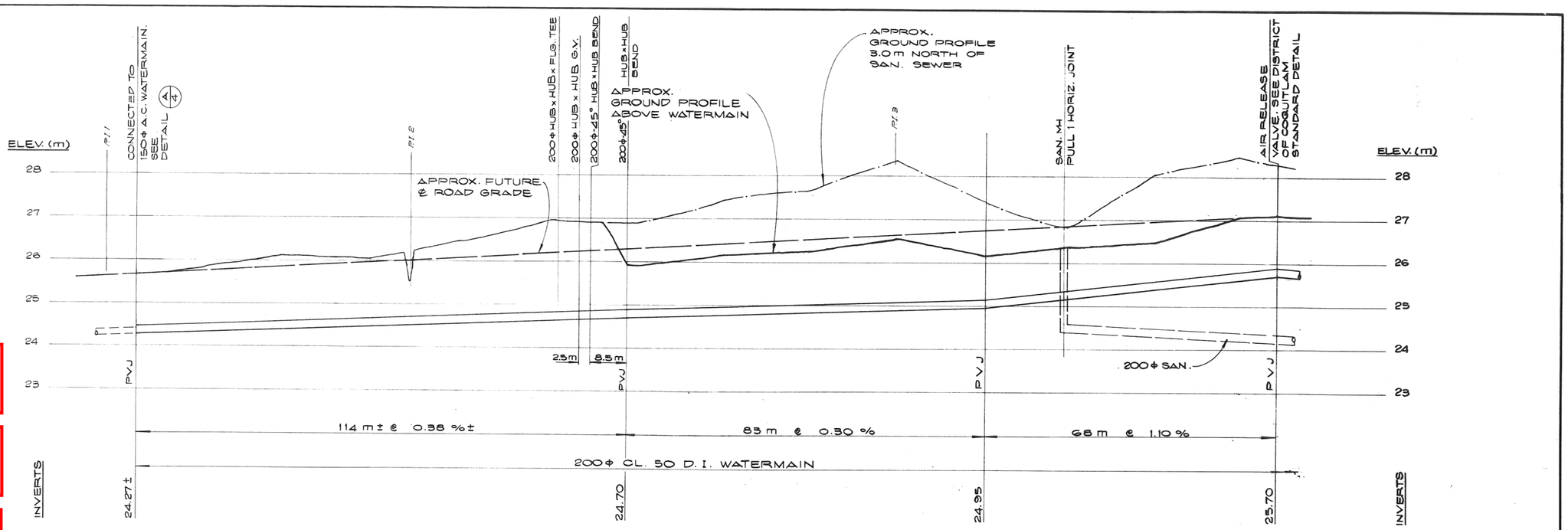
W-679-13

W - 1003

IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

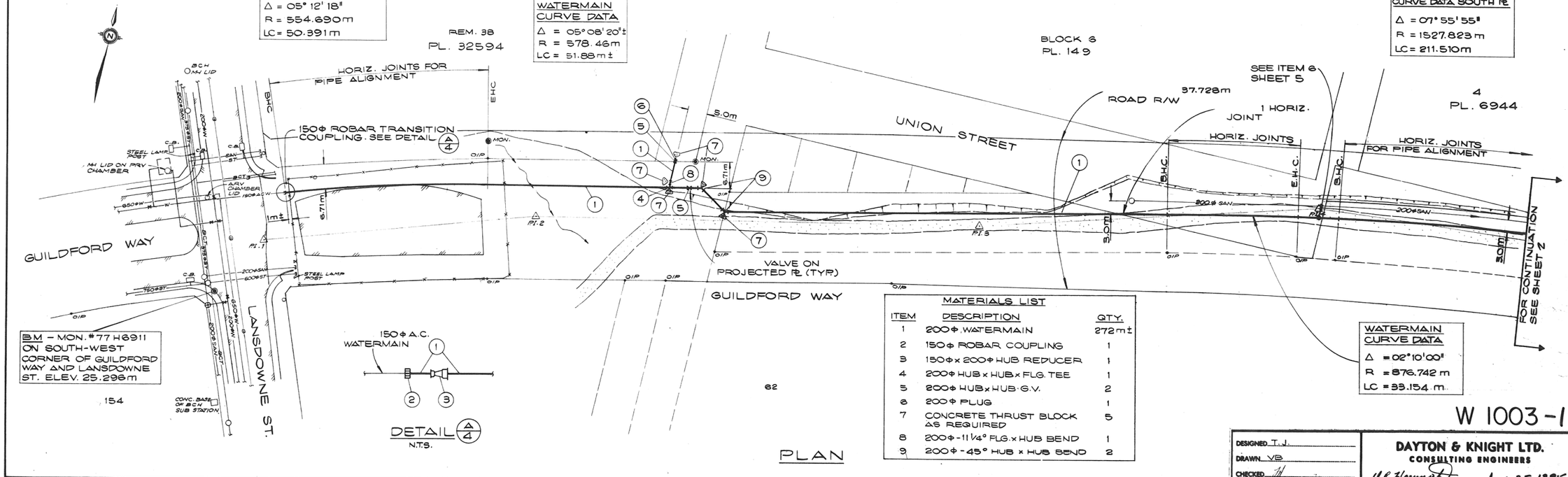


PROFILE

CURVE DATA SOUTH ℄
Δ = 05° 12' 18"
R = 554.690m
LC = 50.391m

WATERMAIN CURVE DATA
Δ = 05° 08' 20" ±
R = 578.46m
LC = 51.88m ±

CURVE DATA SOUTH ℄
Δ = 07° 55' 55"
R = 1527.823m
LC = 211.510m



PLAN

MATERIALS LIST

ITEM	DESCRIPTION	QTY.
1	200φ WATERMAIN	272m ±
2	150φ ROBAR COUPLING	1
3	150φ x 200φ HUB REDUCER	1
4	200φ HUB x HUB x FLG. TEE	1
5	200φ HUB x HUB G.V.	2
6	200φ PLUG	1
7	CONCRETE THRUST BLOCK AS REQUIRED	5
8	200φ - 11 1/4° FLG. x HUB BEND	1
9	200φ - 45° HUB x HUB BEND	2

WATERMAIN CURVE DATA
Δ = 02° 10' 00"
R = 876.742 m
LC = 33.154 m

W 1003-1

Legend

	Proposed	Existing
CULVERT	600φ CSP	
TOP OF BANK		
STORM SEWER	ST	ST
SAN SEWER	SAN	SAN
GAS	G	G
WATER	W	W
UG ELECTRIC	BCH	BCH
UG TELEPHONE	BCT	BCT
VALVE		
MANHOLE		

DITCH
UTILITY POLE
FIRE HYDRANT
IRON PIN
BASEMENT ELEV
EDGE OF PVMT
INTEG SURVEY MON

STORM INLET TYPES – I II III IV

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA TIMOTHY JERVIS 26799

REV'N	DATE	DR'N	CH'D	
B	AUG. 13/86	MR.	TJ	ALIGNMENT REVISED TO 3 m SOUTH OF 200 φ S.S.
C	NOV. 18/86		TJ	AS CONSTRUCTED

DESIGNED T.J.
DRAWN V.B.
CHECKED TJ

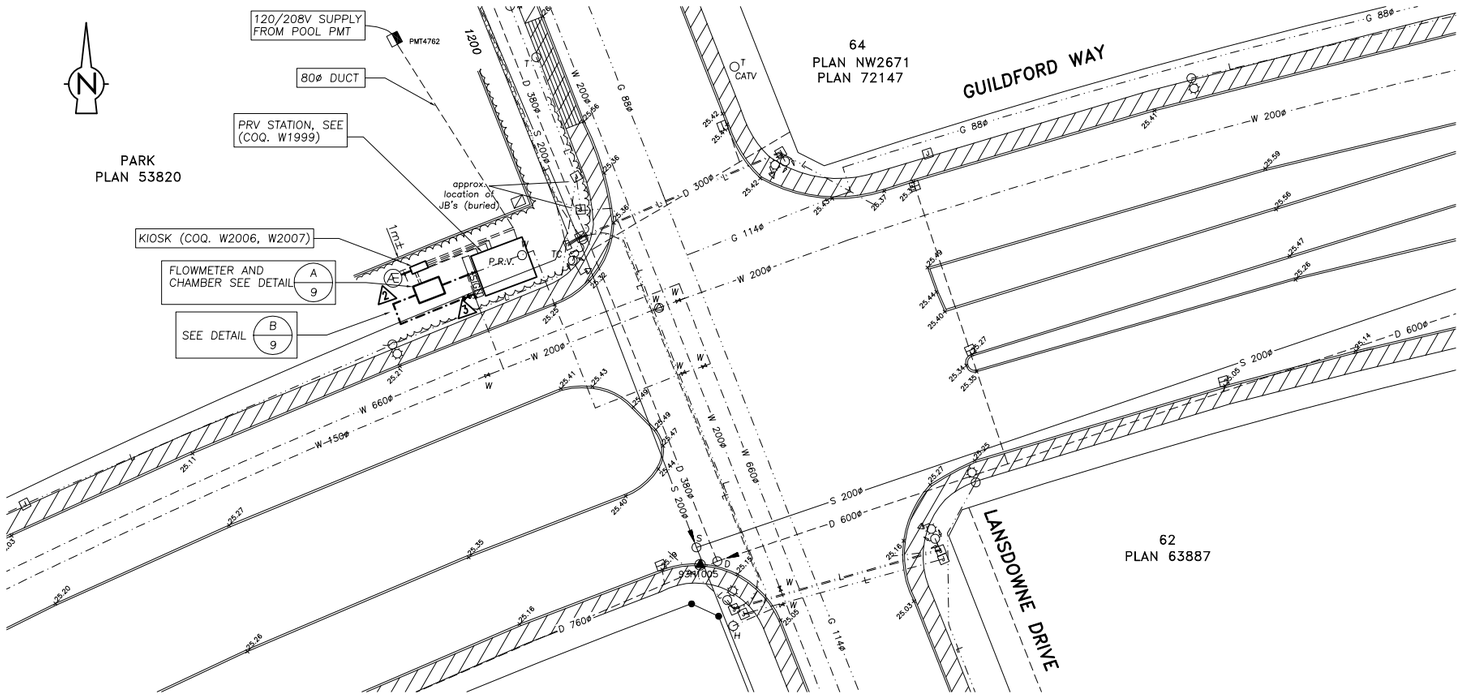
DAYTON & KNIGHT LTD.
CONSULTING ENGINEERS
H.R. Hammett June 25, 1986

DISTRICT OF COQUITLAM Engineering Department

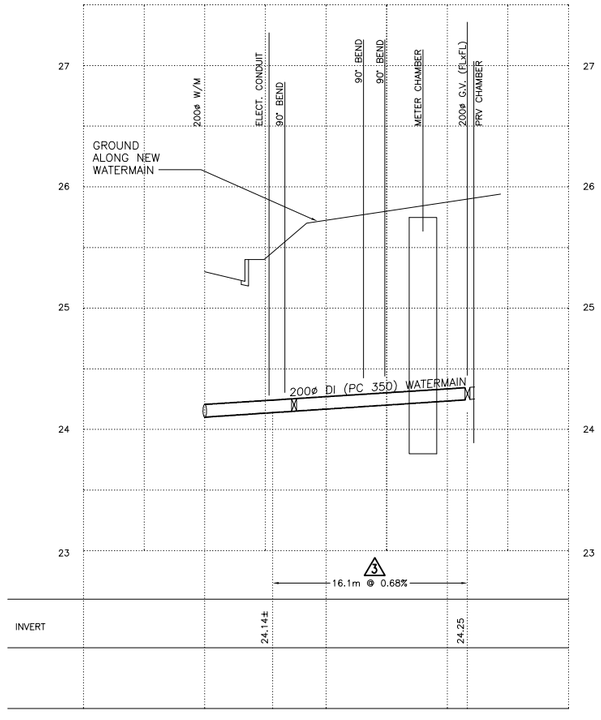
DESIGNED - T.J.
DRAWN - V.B.
METRIC SCALE HORIZ. 1:500 -VERT. 1:50
APPROVED -
DATE -

WATERMAINS (PART 2)
GUILDFORD WAY
LANSDOWNE ST. TO JOHNSON RD.

FILE -
CONSULTANTS DWG Nº - 138-22-1
DISTRICT DWG Nº -
SHEET 1 OF 2

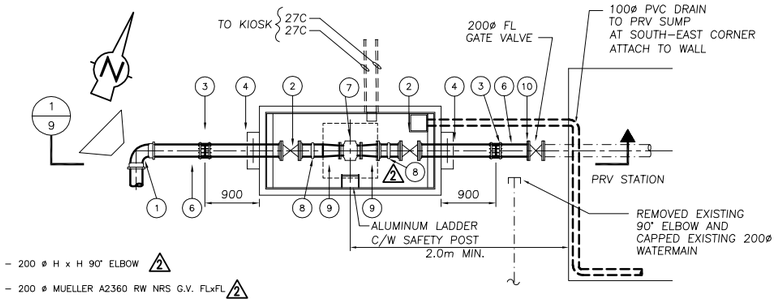


GRAPHIC SCALE
SCALE 1:250

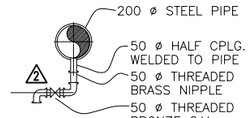


See W1990 for Index and Key Plan

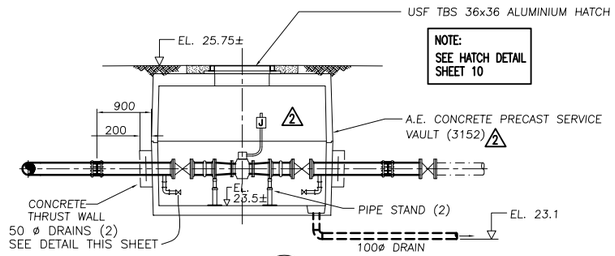
See W1999 for details of the Lansdowne PRV



1. 1 – 200 ø H x H 90° ELBOW
2. 2 – 200 ø MUELLER A2360 RW NRS G.V. FLxFL
3. 2 – 200 ø ROBAR 140B DI TO STEEL TRANSITION COUPLINGS
4. 2 – 200 ø STEEL PIPE, PExVIC, EPOXY LINED AND COATED C/W THRUST RINGS IN WALLS
6. 2 – 200 ø PC 350 DI MAKE–UP PIPES
7. 1 – 150 ø DANFOSS 3KOW MAGNETIC FLOW METER C/W TERMINAL BOX
8. 2 – 200 ø VIC.#07 COUPLING
9. 2 – 200x150 FLxFL DI REDUCER (TAPER < 8°)
10. 1 – 200 ø FL ADAPTOR



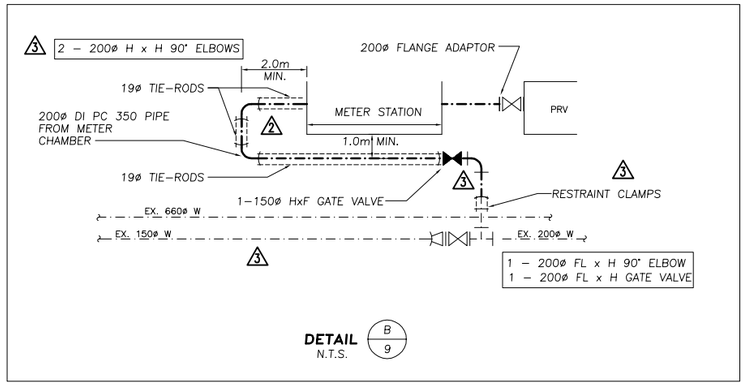
DRAIN DETAIL
NTS



SECTION 1:50 (1/9)

FLOW METER CHAMBER DETAIL

DETAIL A/9
1:50



DETAIL B/9
N.T.S.

AC DENOTES LOCATION OF ANTENNA POLE

MATERIAL LIST	
GATE VALVES	– CLOW
FITTINGS	– A.C.S.
HYDRANTS	– T.C. COMPRESSION
WATERMAIN	– D.I. PC 350

This photocopy is supplied by the City of Coquitlam for general information only and the accuracy of the information contained on the document is in no way guaranteed by the City.

Note:
Location of existing utilities shown are approximate and should be confirmed by pipe locator and manual digging. All or any existing structures are not necessarily shown.

FOR WATERWORKS NOTES, (COQ. W1991)

"These Record Drawings have been prepared based on information provided by the Contractor and others. Dayton & Knight Ltd. has not verified the accuracy or completeness of the information provided to them and does not warrant the accuracy or completeness of these Record Drawings. Users of these Record Drawings assume all risk of loss resulting from their use."

DAYTON & KNIGHT LTD.
Consulting Engineers
612 Clyde Ave., West Vancouver, BC
Tel: (604) 922-3255
Fax: (604) 922-3253

BC 1 CALL CALL BEFORE YOU DIG!
1-800-474-6886
or by CELLULAR HERE
Vancouver Area 257-7940
CALL AT LEAST TWO FULL WORKING DAYS BEFORE YOU PLAN TO DIG

COQ. AsBUILT No.
W 1998

LEGEND

	EXISTING	PROPOSED
Edge of pavement		
Asphalt curb		
Concrete sidewalk		
Concrete curb		
Watermain and valve	W	W
Watermain, capped end	W	W
Hydrant		
Water blowoff		
Water temporary blowoff		
Drainage sewer and MH		
Drainage sewer capped end		
Catch basin, top inlet		
Catch basin, side inlet		
Catch basin, round		
Swale		
Ditch		
Culvert		
Inlet Structure		
Sanitary sewer and MH	D	D
Sanitary sewer, capped end	D	D
Sanitary sewer, forcemain	FS	FS
U/G electrical duct and MH	E	E
Utility pole		
Utility pole with light		
Junction box	J	J
U/G telephone and MH	T	T
U/G gas main and valve	G	G
U/G signal/light duct	S	S
Streetlight, davit	S	S
Streetlight, post top	S	S
Traffic signal pole	E	E
Traffic signal post		
Traffic controller	TC	TC
Service box	SB	SB
Signal fixture		
Traffic street sign		

REV'D	DATE	DR'N	CH'D	
4	05/26/03	PTL	JL	AS CONSTRUCTED
3	02/22/02	JT		REVISE TIE–IN LOCATION
2	11/06/01	KS	JT	METER CHAMER REVISION
1	06/11/01	KS	JT	ISSUED FOR TENDER

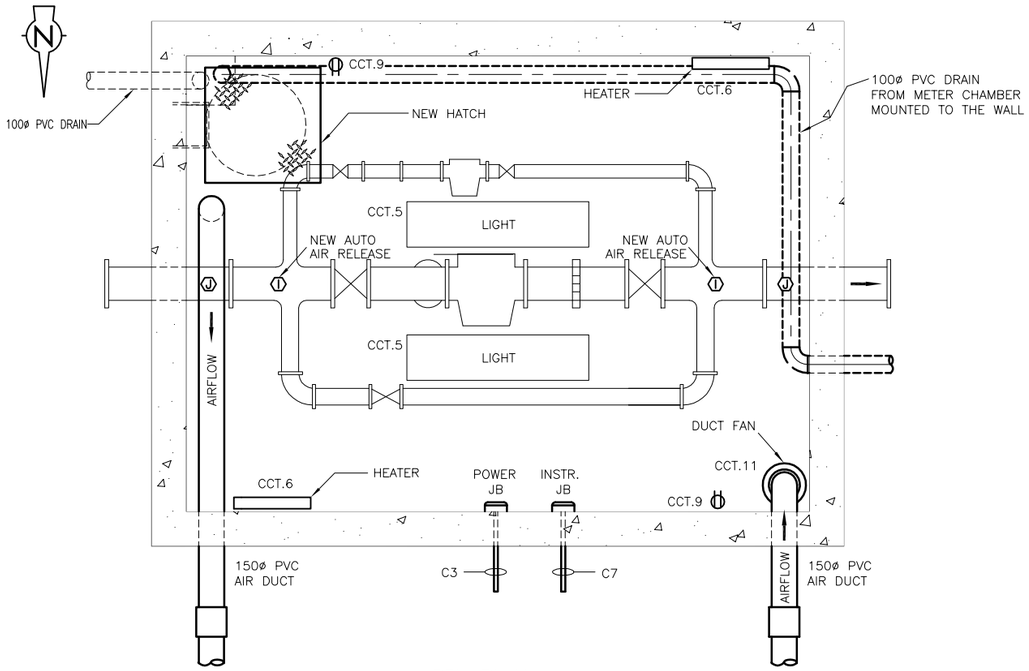
Destroy All Prints Bearing Previous Rev. No.

CITY OF COQUITLAM — Operations

DESIGNED – J.T./G.S.
DRAWN – K.R.C.
METRIC SCALE – Horiz. 1:250 Vert. 1:25
APPROVED –
DATE – MAR 12 01

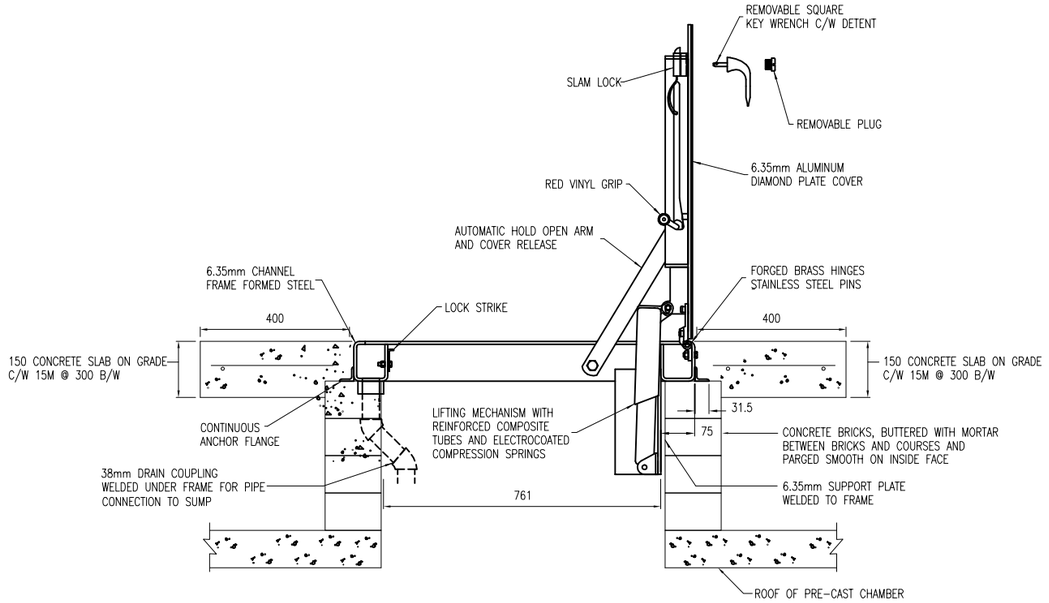
NEW LANSDOWNE METER CHAMBER

FILE – 138.40.1
CONSULTANTS DWG No– 138–40–1_9
COQ. PROJECT No– C 91856–1
SHEET 9 OF 21
PLOT DATE/TIME: Sep 04, 2003–4:43pm



PRV PLAN

(N.T.S.)

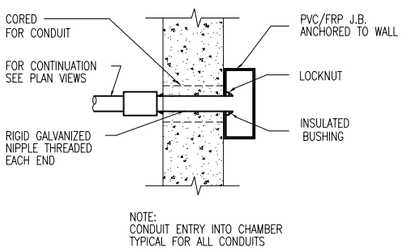


USF TPS 36 x 36 (ALUMINUM HATCH COVER)

(N.T.S.)

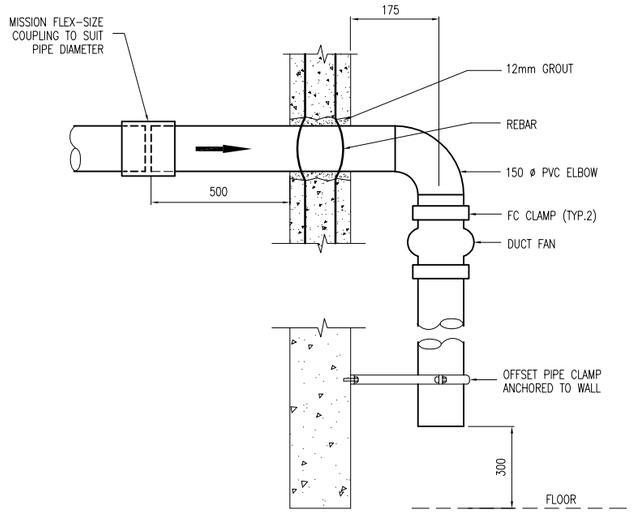
See W1990 for Index and Key Plan

See W1998 for the Site Plan of Lansdowne PRV at Lansdowne Dr. & Guildford Way



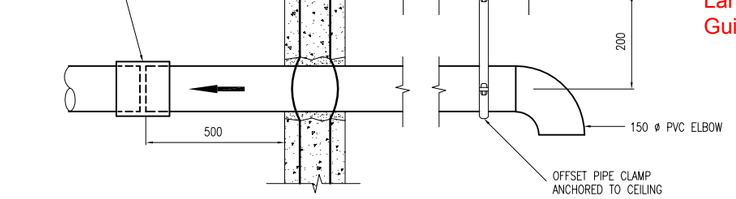
SECTION THROUGH CHAMBER SHOWING CONDUIT ENTRY DETAIL

(N.T.S.)



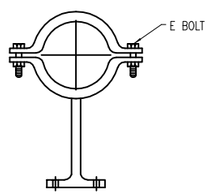
VENT DUCT FROM KIOSK ENTRY DETAIL – INTAKE

(N.T.S.)



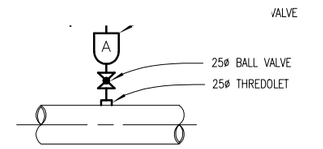
VENT DUCT FROM KIOSK ENTRY DETAIL – EXHAUST

(N.T.S.)

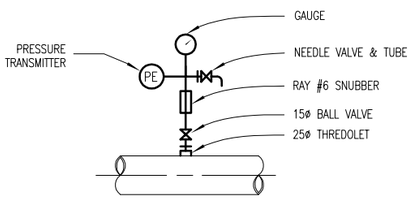


OFFSET PIPE CLAMP DETAIL

(N.T.S.)



DETAIL I



DETAIL J

LEGEND

	EXISTING	PROPOSED		EXISTING	PROPOSED		EXISTING	PROPOSED		EXISTING	PROPOSED
Edge of pavement			Drainage sewer and MH			Sanitary sewer and MH			U/G signal/light duct		
Asphalt curb			Drainage sewer capped end			Sanitary sewer, capped end			Streetlight, davit		
Concrete sidewalk			Catch basin, top inlet			Sanitary sewer, forcemain			Streetlight, post top		
Concrete curb			Catch basin, side inlet			U/G electrical duct and MH			Traffic signal pole		
Watermain and valve			Catch basin, round			Utility pole			Traffic signal post		
Watermain, capped end			Swale			Utility pole with light			Traffic controller		
Hydrant			Ditch			Junction box			Service box		
Water blowoff			Culvert			U/G telephone and MH			Signal fixture		
Water temporary blowoff			Inlet Structure			U/G gas main and valve			Traffic street sign		

This photocopy is supplied by the City of Coquitlam for general information only and the accuracy of the information contained on the document is in no way guaranteed by the City.

Note:
Location of existing utilities shown are approximate and should be confirmed by pipe locator and manual digging. All or any existing structures are not necessarily shown.

These Record Drawings have been prepared based on information provided by the Contractor and others. Dayton & Knight Ltd. has not verified the accuracy or completeness of the information provided to them and does not warrant the accuracy or completeness of these Record Drawings. Users of these Record Drawings assume all risk of loss resulting from their use.

DAYTON & KNIGHT LTD.
Consulting Engineers
612 Clyde Ave., West Vancouver, BC
Tel: (604) 922-3255
Fax: (604) 922-3253

BC 1 CALL — CALL BEFORE YOU DIG!
1-800-474-6886
or by CELLULAR #6886
Vancouver Area 257-7940
CALL AT LEAST TWO FULL WORKING DAYS BEFORE YOU PLAN TO DIG

COQ. AsBUILT No.
W 1999

REV'D	DATE	DR'N	CH'D	
2	06/02/03	PTL	JL	AS CONSTRUCTED
1	06/11/01	KS	D.R.	ISSUED FOR TENDER

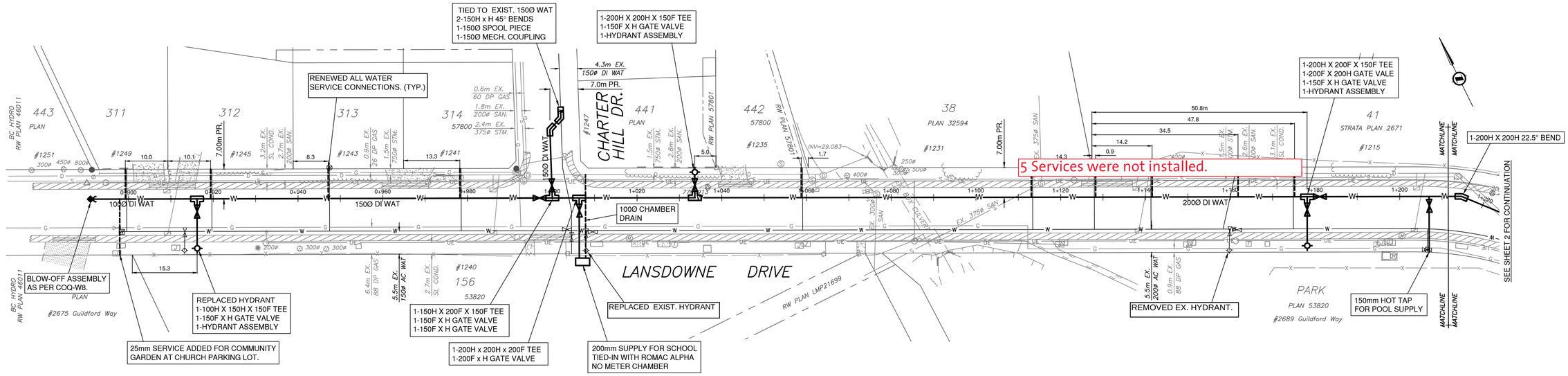
Destroy All Prints Bearing Previous Rev. No.

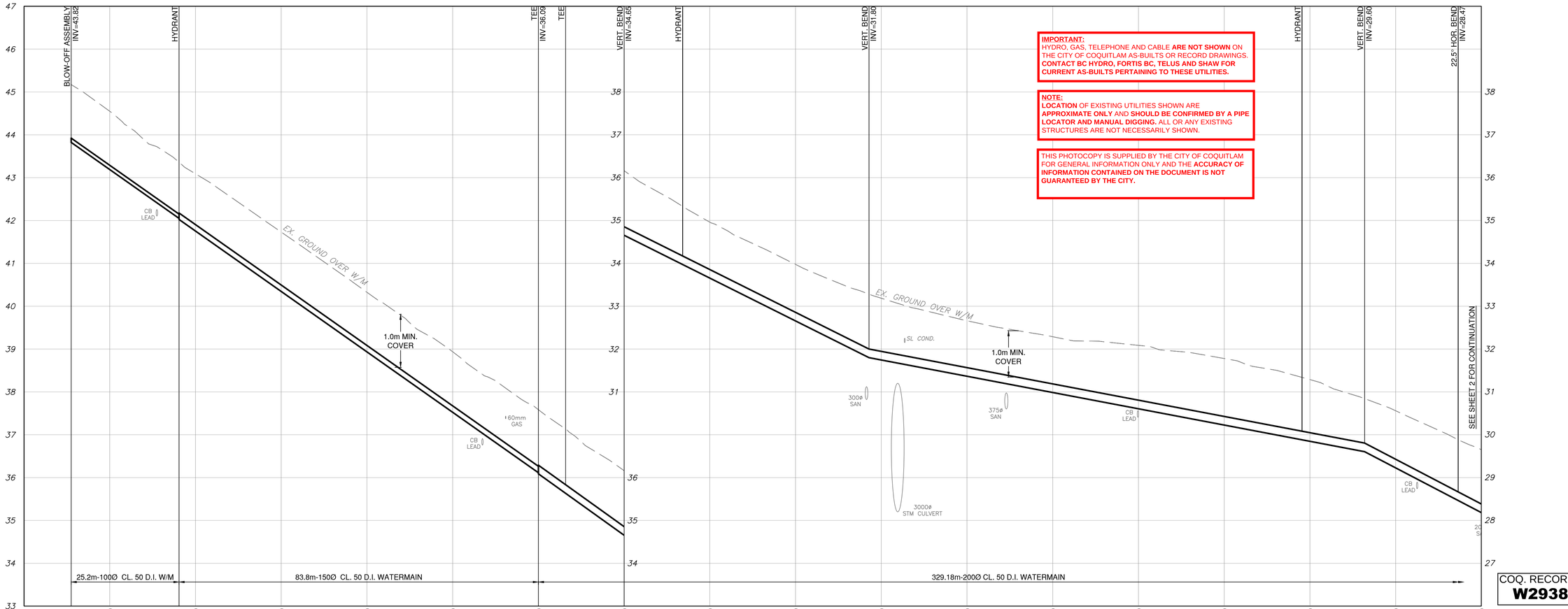
CITY OF COQUITLAM — Operations

DESIGNED – D.R.
DRAWN – B.J.
METRIC SCALE – Horiz. N.T.S. Vert. N.T.S.
APPROVED –
DATE – MAR 29 01

EXISTING LANSDOWNE PRV CHAMBER UPGRADE

FILE – 138.40.1
CONSULTANTS DWG No– 138-40-1_10
COQ. PROJECT No– C 91856-1
SHEET 10 OF 21
PLOT DATE/TIME: Sep 04, 2003-4:45pm





IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

COQ. RECORD DWG.
W2938-01

1:500 0 10 30m

Edge of pavement	Hydrant	Sanitary service	Hydro Guy Wire
Watermain and valve	Water air valve	Sanitary cleanout	Hydro Kiosk
Drainage sewer, MH	Water blowoff	Utility pole(joint pole)	Vegetation Conifer
Drainage ditch	Water service	Utility pole with light	Vegetation Deciduous
Sanitary sewer, MH	Catch basin, top inlet	Streetlight, davit	Vegetation Shrub
Sanitary forcemain	Catch basin, side inlet	Streetlight, post top	Survey Traverse Hub
Gasmain and valve	Catch basin, round	Comb signal pole	Survey Iron Pin
Hydro duct, MH	Drainage service	Traffic signal pole	Survey Lead Plug
Telephone duct, MH	Drainage cleanout	Junction box	Survey Monument

No.	Date	By	Revisions
2	27 JAN 2020	RD	RECORD DRAWING
1	21 JAN 2019	RD	ISSUED FOR CONSTRUCTION

Design by D.B.	Date DEC 07, 2018
Drawn by R.D.	Date DEC 07, 2018
Checked by	Date
Approved by	Date

Coquitlam
Engineering & Public Works
3000 Guildford Way, Coquitlam, B.C. V3B 7N2

Scale horiz. 1:500 Scale vert. 1:50
Sheet of 1 OF 3
Eng. Project No.

Project: LANSDOWNE DRIVE AND GUILDFORD WAY
Description: WATER MAIN REPLACEMENT
File: 18Lansdo10303315A1

Plot Date: February 5, 2020

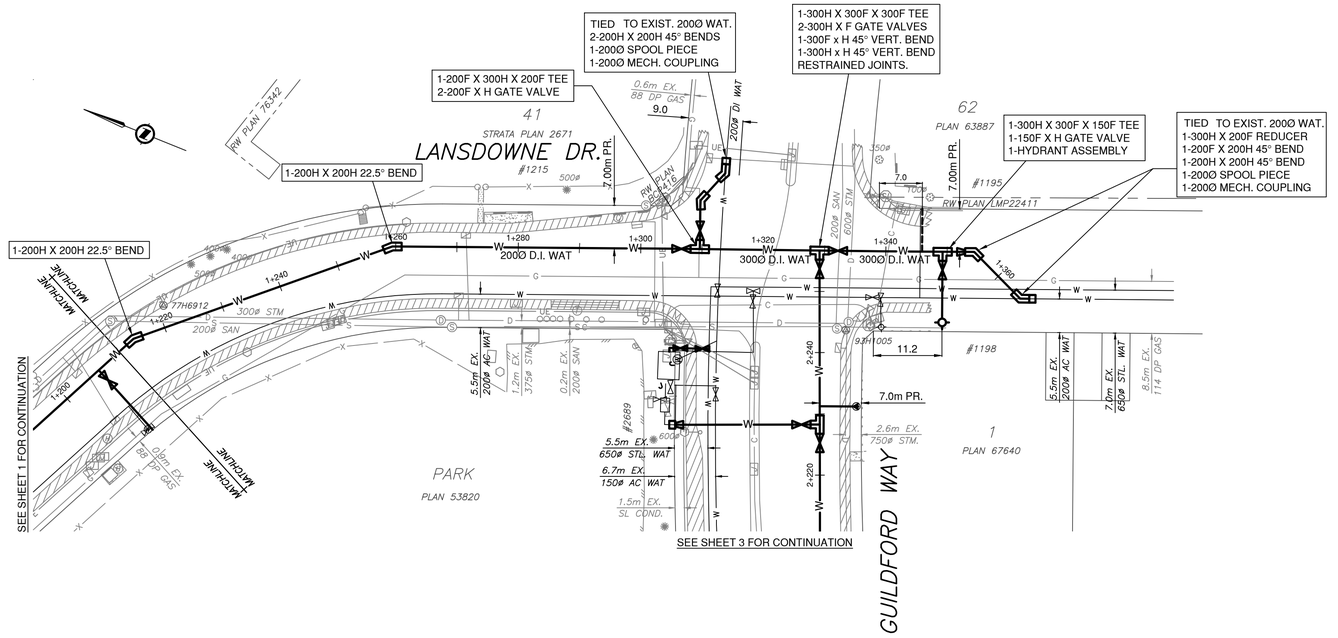
NOTES:

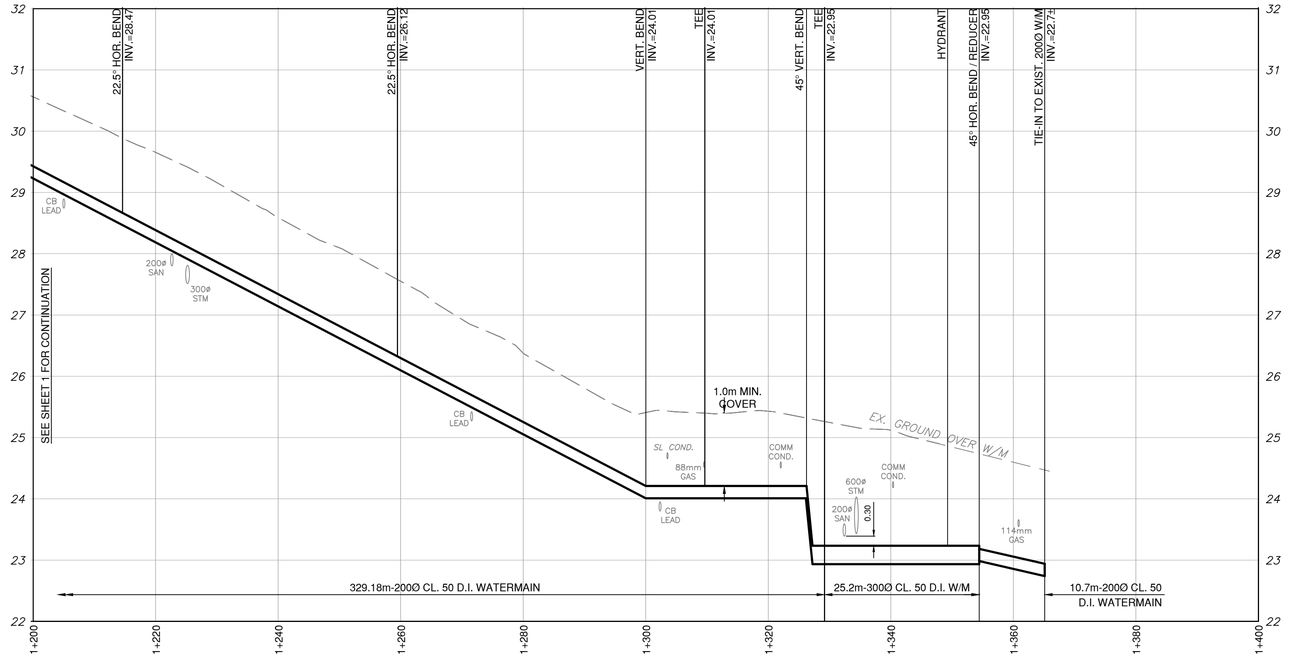
1. WATER MAINS SHALL BE DUCTILE IRON CLASS 50 CEMENT LINED TO AWWA C104.
2. WATER SERVICES SHALL BE 19mm ± COPPER TO ASTM B-88 TYPE "K" CONNECTIONS. MINIMUM COVER FOR WATER SERVICES SHALL BE 1.0m.
3. ALL NEW CONNECTIONS SHALL HAVE DOUBLE STRAP SADDLES AT THE MAIN, SHALL HAVE BRASS CURB STOPS - MULLER A631 OR EQUIVALENT AND INSTALLED AS PER MMCD 2000 ED. DWG. W2B.
4. CONCRETE THRUST BLOCKS SHALL BE INSTALLED AS PER MMCD 2000 ED. DWG W1.
5. ALL TESTING AND CHLORINATION OF WATERLINES COMPLETED BY THE GENERAL CONTRACTOR AND WITNESSED BY THE CITY OF COQUITLAM.
6. FIRE HYDRANTS AS PER MMCD 2000 ED. DWG. W4.
7. ALL EXISTING SERVICES CAPPED BY THE ENGINEERING AND PUBLIC WORKS DEPARTMENT.
8. EXISTING UTILITY SERVICE CONNECTIONS ARE NOT SHOWN FOR CLARITY.
9. GEODETIC ELEVATIONS ARE DERIVED FROM TIES TO INTEGRATED SURVEY CONTROL MONUMENT 77H6913. LOCATED AT #1235 LANSDOWNE DRIVE, PUBLISHED ELEVATION=35.258m, DATUM IS [CGVD28 (GVRD 2005)].

IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**





COQ. RECORD DWG.
W2938-02

1:500 0 10 30m

Edge of pavement — Watermain and valve — Drainage sewer, MH — Drainage ditch — Sanitary sewer, MH — Sanitary forcemain — Gasmain and valve — Hydro duct, MH — Telephone duct, MH
Hydrant — Water air valve — Water blowoff — Water service — Catch basin, top inlet — Catch basin, side inlet — Catch basin, round — Drainage service — Drainage cleanout
Sanitary service — Sanitary cleanout — Utility pole(joint pole) — Utility pole with light — Streetlight, davit — Streetlight, post top — Comb signal pole — Traffic signal pole — Junction box
Hydro Guy Wire — Hydro Kiosk — Vegetation Conifer — Vegetation Deciduous — Vegetation Shrub — Survey Traverse Hub — Survey Iron Pin — Survey Lead Plug — Survey Monument

No.	Date	By	Revisions
2	27 JAN 2020	RD	RECORD DRAWING
1	21 JAN 2019	RD	ISSUED FOR CONSTRUCTION

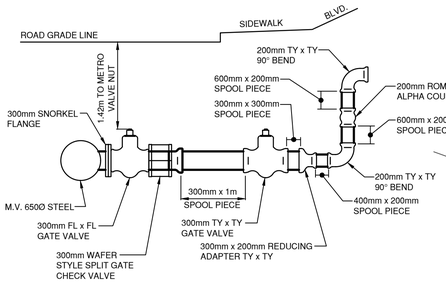
Design by D.B. — Date DEC 07, 2018
Drawn by R.D. — Date DEC 07, 2018
Checked by — Date
Approved by — Date

Coquitlam
Engineering & Public Works
3000 Guildford Way, Coquitlam, B.C. V3B 7N2

Scale horiz. 1:500 Scale vert. 1:50
Sheet of 2 OF 3
Eng. Project No.

Project: LANSDOWNE DRIVE AND GUILDFORD WAY
Description: WATER MAIN REPLACEMENT
File: 18Lansdo10303315A1

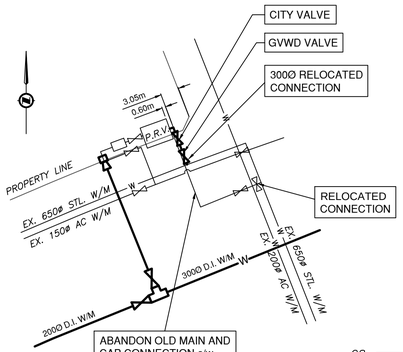
Plot Date: February 5, 2020



ALL JOINTS RODDED, BOLTED OR RESTRAINED

METRO VANCOUVER SUPPLY

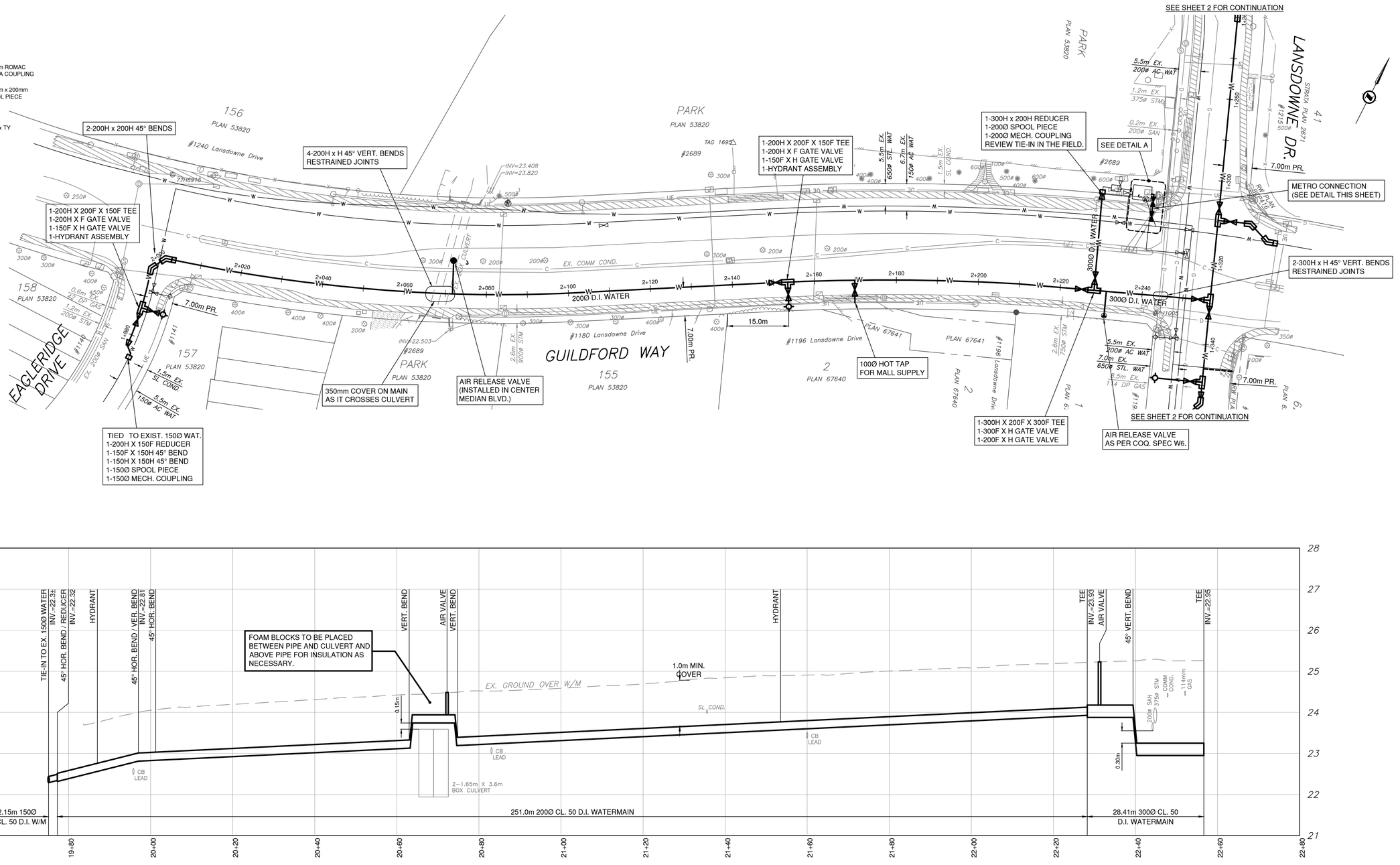
N.T.S.



ABANDON OLD MAIN AND CAP CONNECTION c/w BLIND FLANGE UNDER GVWD SUPERVISION.

DETAIL A

N.T.S.



IMPORTANT:
HYDRO, GAS, TELEPHONE AND CABLE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS. **CONTACT BC HYDRO, FORTIS BC, TELUS AND SHAW FOR CURRENT AS-BUILTS PERTAINING TO THESE UTILITIES.**

NOTE:
LOCATION OF EXISTING UTILITIES SHOWN ARE **APPROXIMATE ONLY** AND **SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING.** ALL OR ANY EXISTING STRUCTURES ARE NOT NECESSARILY SHOWN.

THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE **ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.**

COQ. RECORD DWG.
W2938-03

1:500 0 10 30m

Edge of pavement	Hydrant	Sanitary service	Hydro Guy Wire
Watermain and valve	Water air valve	Sanitary cleanout	Hydro Kiosk
Drainage sewer, MH	Water blowoff	Utility pole(joint pole)	Vegetation Conifer
Drainage ditch	Water service	Utility pole with light	Vegetation Deciduous
Sanitary sewer, MH	Catch basin, top inlet	Streetlight, davit	Vegetation Shrub
Sanitary forcemain	Catch basin, side inlet	Streetlight, post top	Survey Traverse Hub
Gasmain and valve	Catch basin, round	Comb signal pole	Survey Iron Pin
Hydro duct, MH	Drainage service	Traffic signal pole	Survey Lead Plug
Telephone duct, MH	Drainage cleanout	Junction box	Survey Monument

No.	Date	By	Revisions
3	27 JAN 2020	RD	RECORD DRAWING
2	25 JUN 2019	RD	ADDED RELOCATED 300Ø CONNECTION
1	21 JUN 2019	RD	ISSUED FOR CONSTRUCTION

Design by D.B.	Date DEC 07,2018
Drawn by R.D.	Date DEC 07, 2018
Checked by	Date
Approved by	Date

Coquitlam
Engineering & Public Works
3000 Guildford Way, Coquitlam, B.C. V3B 7N2

Scale horiz. 1:500 Scale vert. 1:50
Sheet of 3 OF 3
Eng. Project No.

Project: GUILDFORD WAY
EAGLE RIDGE DR. TO LANSDOWNE DR.
Description: WATER MAIN REPLACEMENT
File: 18Lansdo10303315A1

Plot Date: February 5, 2020