THE ESSELTINE DRAIN: BOOK 2 - DRAWINGS

Municipal Drainage Report Prepared for the Town of Kingsville

RC SPENCER ASSOCIATES INC.
Consulting Engineers

17 June 2016

Project No.: 14-425

TOWN OF KINGSVILLE
MUNICIPAL DRAINAGE REPORT
REPAIR AND IMPROVEMENT AND EXTENSION OF THE ESSELTINE DRAIN

INDEX

No.	DESCRIPTION	No.	DESCRIPTION
1	INDEX, LEGEND, KEY PLAN & BENCH MARK	25	CROSS SECTIONS – STATION 1+107 TO 1+272
2	DRAINAGE AREA AND LANDS AFFECTED	26	CROSS SECTIONS – STATION 1+350 TO 1+800
3	LIST OF AFFECTED LANDOWNERS	27	CROSS SECTIONS – STATION 1+830 TO 2+300
4	LIST OF AFFECTED LANDOWNERS CONTINUED	28	CROSS SECTIONS – STATION 1+340 TO 2+452
5	PROFILE – STATIONS 0+000 TO 2+450	29	AERIAL PLAN – EXISTING CONDITIONS STATIONS 0+000 TO 0+750
6	PROFILE – STATIONS 2+450 TO 4+883	30	AERIAL PLAN – EXISTING CONDITIONS STATIONS 0+520 TO 1+150
7	NEW BRANCH DRAIN PROFILES	31	AERIAL PLAN – EXISTING CONDITIONS STATIONS 1+100 TO 1+900
8	CROSS SECTIONS – STATION 0+000 (WEIR DETAIL)	32	AERIAL PLAN – EXISTING CONDITIONS STATIONS 1+900 TO 2+452
9	CROSS SECTIONS – STATION 0+004	33	AERIAL PLAN – DRAIN CONDITION SURVEY STATIONS 2+452 TO 2+900
10	CROSS SECTIONS – STATION 0+100	34	AERIAL PLAN – DRAIN CONDITION SURVEY STATIONS 2+900 TO 3+350
11	CROSS SECTIONS – STATION 0+150 TO 0+200	35	AERIAL PLAN – DRAIN CONDITION SURVEY STATIONS 3+350 TO 4+000
12	CROSS SECTIONS – STATION 0+225 TO 0+250	36	AERIAL PLAN – DRAIN CONDITION SURVEY STATIONS 4+000 TO 4+600
13	CROSS SECTIONS – STATION 0+300 TO 0+320	37	AERIAL PLAN – DRAIN CONDITION SURVEY STATIONS 4+600 TO 5+047
14	CROSS SECTIONS – STATION 0+350 TO 0+375	38	OUTLET WEIR DETAIL AND CROSS SECTION
15	CROSS SECTIONS – STATION 0+394 TO 0+400	39	COUNTY ROAD 20 CONCRETE CULVERT OUTLET DETAILS
16	CROSS SECTIONS – STATION 0+420 TO 0+450	40	MISCELLANEOUS DETAILS I
17	CROSS SECTIONS – STATION 0+475 TO 0+490	41	MISCELLANEOUS DETAILS II
18	CROSS SECTIONS – STATION 0+500 TO 0+510	42	DRAIN OUTLET AND SHORELINE WORKS DETAIL
19	CROSS SECTIONS – STATION 0+520 TO 0+551	43	FISH HABITAT DETAILS
20	CROSS SECTIONS – STATION 0+565 TO 0+600	44	RESIDENTIAL TREES DETAILS
21	CROSS SECTIONS – STATION 0+625 TO 0+650	45	ACCESS AND MAINTENANCE CORRIDOR DETAILS
22	CROSS SECTIONS – STATION 0+675 TO 0+750	46	CONCRETE BOX CULVERT DETAILS (STA 0+280)
23	CROSS SECTIONS – STATION 0+800 TO 0+925	47	CSP CULVERT DETAILS (STA 0+726 & 2+116)
24	CROSS SECTIONS – STATION 0+950 TO 1+050		*NOTE: AERIAL PLAN FROM TOWN MAPPING DATED 2015*

KEY PLAN

BENCHMARKS

NUMBER	STATION	DESCRIPTION	ELEVATION
NO. 1	0+125	TOP OF CONCRETE PILLAR ON S/W CORNER OF GREENHOUSE EAST OF ACCESS ROAD (MB 1875 COUNTY ROAD 20).	192.280
NO. 2	0+520	GEODETIC BENCHMARK #81U034 LOCATED ON CONCRETE BOX CULVERT ON SOUTH SIDE OF COUNTY ROAD 20.	188.724
NO. 3	0+825	TOP OF NUT ON FIRE HYDRANT AT N/W CORNER OF MUCCI FARMS FRONT BUILDING (MB 1876 COUNTY ROAD 20) AND EAST SIDE OF ESSELTINE DRAIN.	194.880
NO. 4	1+150	TOP OF NUT ON FIRE HYDRANT AT WEST OF MUCCI FARMS GREENHOUSES (MB 1876 COUNTRY RD 20) AND EAST SIDE OF ESSELTINE DRAIN.	196.715
NO. 5	2+387	TOP OF CONCRETE WALL AT ℄ OF CSP CULVERT ON SOUTH SIDE OF COUNTY ROAD 34 ACROSS FROM MB 1750	204.363

NOTE

CONSTRUCTION LIMITS FOR THIS PROJECT ARE FROM STATION 0+000 TO 2+387.

EXISTING CONDITION SURVEY WAS PERFORMED FROM STATION 2+387 TO 4+883.

LEGEND

MB 1735 – DENOTES PROPERTY ADDRESS
290–15200 – DENOTES PROPERTY ROLL NUMBER

SEE SHEET 4 FOR BUILT UP RESIDENTIAL AREAS

THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

RC SPENCER ASSOCIATES INC. Consulting Engineers

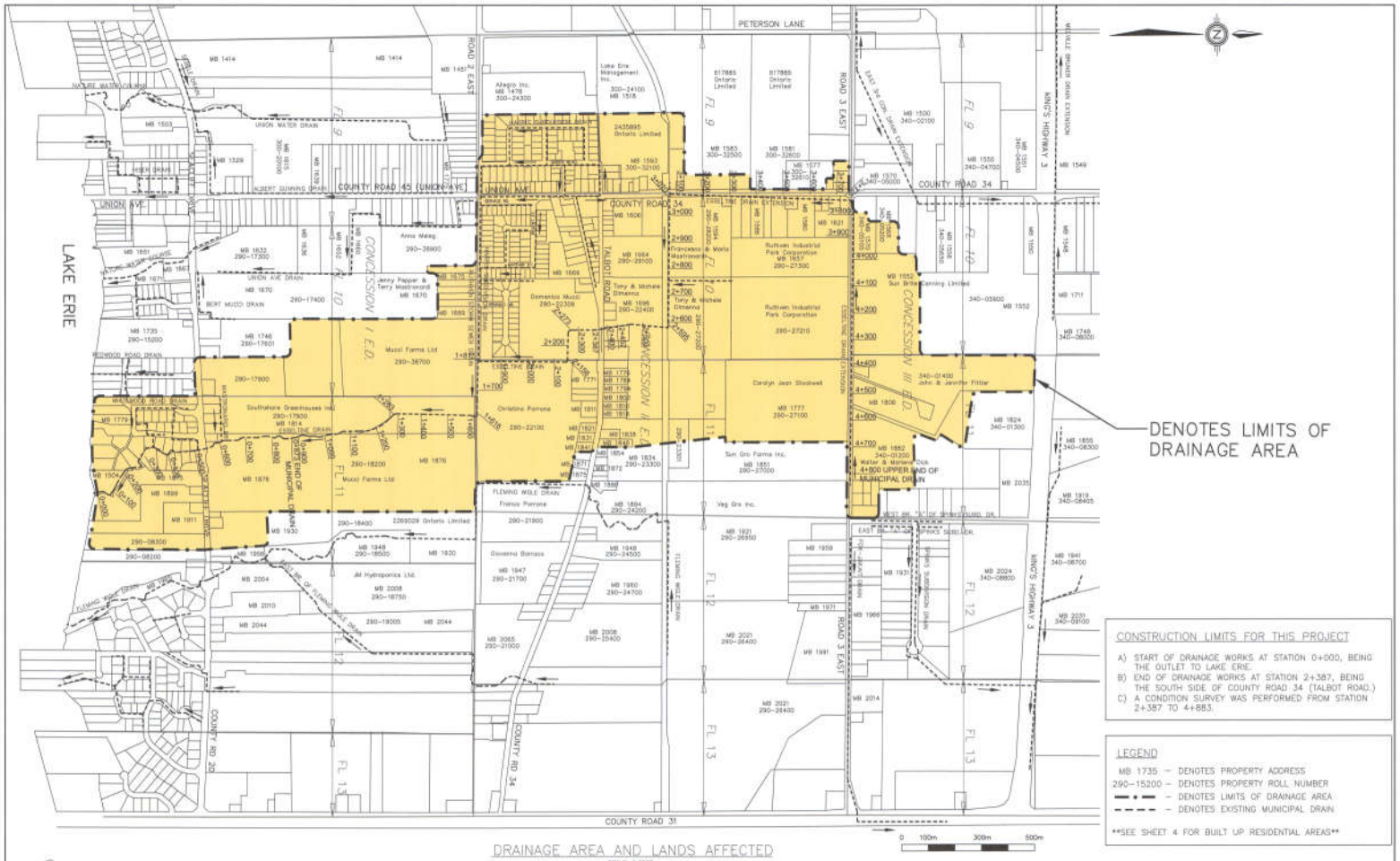
NO.	REVISION	DATE	BY	APP.
5.				
4.				
3.				
2.				
1.				

DESIGN L.Z.
CHECKED A.M.E.
DRAWN A.A.H.
CHECKED R.C.S.
DATE JUNE 17, 2016
SCALE AS SHOWN

ESSELTINE DRAIN

INDEX, LEGEND, KEY PLAN AND BENCHMARK

PROJECT NO. 14-425
SHEET NO. 1
OF 47



DRAINAGE AREA AND LANDS AFFECTED

SCALE: 1:5000

CONSTRUCTION LIMITS FOR THIS PROJECT

A) START OF DRAINAGE WORKS AT STATION 0+000, BEING THE OUTLET TO LAKE ERIE.
B) END OF DRAINAGE WORKS AT STATION 2+387, BEING THE SOUTH SIDE OF COUNTY ROAD 34 (TALBOT ROAD.)
C) A CONDITION SURVEY WAS PERFORMED FROM STATION 2+387 TO 4+883.

LEGEND

MB 1735 – DENOTES PROPERTY ADDRESS
290–15200 – DENOTES PROPERTY ROLL NUMBER
– DENOTES LIMITS OF DRAINAGE AREA
– DENOTES EXISTING MUNICIPAL DRAIN

SEE SHEET 4 FOR BUILT UP RESIDENTIAL AREAS

THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

M.C. SPENCER ASSOCIATES INC.
Consulting Engineers

NO	REVISION	DATE	BY	APR
5.				
4.				
3.				
2.				
1.				

DESIGN L.Z.
CHECKED A.M.G.
DRAWN A.A.H.
CHECKED R.E.B.
DATE JUNE 11, 2014
SCALE 1:5000

ESSELTINE DRAIN

DRAINAGE AREA AND LANDS AFFECTED

PROJECT NO. 14-425
SHEET NO. 2
OF 47

LIST OF AFFECTED LAND OWNERS

STREET NAME	ADDRESS NUMBER	NAME OF OWNERS
BROOKVIEW DR.	1517	LATAM CONNIE-JEAN
BROOKVIEW DR.	1519	DEBORAH & EDMUND ROLLIER
BROOKVIEW DR.	1521	GREGORY & VICKI CALCOTT
BROOKVIEW DR.	1523	JAMES & SHIRLEY JENSEN
BROOKVIEW DR.	1525	RICHARD & PHYLLIS HICKS
BROOKVIEW DR.	1524	STANLEY GEVAERT
C & O ROADWAY	440-04300	STERLING ACRE FARMS LIMITED
COTTONWOOD AVE.	1775	BRADLEY LANE & ROSEANNE MAKSYMETZ
COTTONWOOD AVE.	1777	CARRIE GROSSI
COTTONWOOD AVE.	1779	CATHERINE STIEGLER
COTTONWOOD AVE.	1781	GAIL KELTON
COTTONWOOD AVE.	1792	DANNY PULCINELLI
COTTONWOOD AVE.	1826	GEORGE EGGLEZOS & AIMEE OMSTEAD
COUNTY ROAD 34	1552	SUN-BRITE CANNING LIMITED
COUNTY ROAD 34	1568	GIOVANNI & ANNA COLASANTI
COUNTY ROAD 34	1570	PIETRO & ITALIA COLASANTI
COUNTY ROAD 34	1574	MICHAEL DEL CIANCIO
COUNTY ROAD 34	1576	DENNIS & LILLY REIVE
COUNTY ROAD 34	1578	DENNIS & LILLY REIVE
COUNTY ROAD 34	1580	BERNARD & ELIZABETH FRIESEN
COUNTY ROAD 34	1582	JACOB & ANNA FEHR
COUNTY ROAD 34	1584	ISAAK & HELENA NEUFELD
COUNTY ROAD 34	290-27710	TONY & LINDA MASTRONARDI
COUNTY ROAD 34	1586	FRANCESCO & MARIA MASTROONARDI
COUNTY ROAD 34	1587	EXCALIBUR PLASTICS LTD
COUNTY ROAD 34	1588	MAURINO & BETTY FREITAS
COUNTY ROAD 34	1589	ALFREDO DIMENNA
COUNTY ROAD 34	1590	MICHELINA POLICELLA
COUNTY ROAD 34	1592	JOHN PENNER
COUNTY ROAD 34	1593	2435885 ONTARIO LIMITED
COUNTY ROAD 34	1594	FRANCESCO & MARIA MASTRONARDI
COUNTY ROAD 34	1595	CANADA POST CORPORATION
COUNTY ROAD 34	1597	TRUDY WOOD
COUNTY ROAD 34	1599	ENNS & ANETHA THIESSEN
COUNTY ROAD 34	1601	RUTHVEN AUTO TOWING & REPAIRS LTD
COUNTY ROAD 34	1602	GIOVANNI & FRANCA VESPA
COUNTY ROAD 34	1603	TINA SALLOWS & ROGER PARENT
COUNTY ROAD 34	1605	ALAN & IRENE FOX
COUNTY ROAD 34	1606	DANNY & JOHNNY VESPA
COUNTY ROAD 34	1607	STEPHEN & LESLIE STEPHENSON
COUNTY ROAD 34	1608	DWAYNE & KIM TESKEY
COUNTY ROAD 34	1620	ROBERT & GWENDOLYN ULCH
COUNTY ROAD 34	300-31001	WIGLE THORBOURN ESTATE
COUNTY ROAD 34	300-31502	WIGLE THORBOURN ESTATE
COUNTY ROAD 34	300-32102	KENNETH HINKS IN TRUST
ELGIN STREET	1609	SELMA SUMARAH
ELGIN STREET	1617	JAMES FRIESEN
ELGIN STREET	1625	T G & SON MARKETING LTD
ELGIN STREET	1628	ANDREW & CAROL CARRUTHERS
ELGIN STREET	1633	BRENDA TAGGART
ELGIN STREET	1634	PETER & AGANETHA PENNER
ELGIN STREET	1639	SCOTT & SARAH WYBENGA
ELGIN STREET	1640	JAMES & JUDY JEFFREY
ELGIN STREET	1645	DONALD & MARGARET DUNMORE
ELGIN STREET	1646	GARY & SHEILA DUNMORE
ELGIN STREET	1651	PETER & ELIZABETH FRIESSEN

LIST OF AFFECTED LAND OWNERS

STREET NAME	ADDRESS NUMBER	NAME OF OWNERS
ELGIN STREET	1654	SHAWNA & MARGARET MACKENZIE
ELGIN STREET	1657	ANDREW KROSLAK & ASHLEY CHAUVIN
ELGIN STREET	1660	PERRY & LUCIA KENNEY
ELGIN STREET	1663	JOHN & MARIA FONTES
ELGIN STREET	1666	CARLOS CORDEIRO
ELGIN STREET	1669	ERCOLE DIMENNA
ELGIN STREET	1672	JONATHAN BADADA
ELGIN STREET	1678	BRIAN & LISA DALE
ELGIN STREET	1684	BERNHARD NEUFELD & HELENA FRIESEN
ELGIN STREET	1691	EVA KRAHN
ELGIN STREET	1695	RUTHVEN MONTESSORI ACAD. INC
FAIRLEA CRESENT	1635	DAVID & MARY TOEWS
FAIRLEA CRESENT	1639	WILHELM & KATAREN DYCK
FAIRLEA CRESENT	1640	ELSIE KUBNEC
FAIRLEA CRESENT	1641	KATHARINA REIMER
FAIRLEA CRESENT	1644	PETER BLOKKER
FAIRLEA CRESENT	1645	SHELDON WIENS
FAIRLEA CRESENT	1649	BERNHARD & ANNA FROESE
FAIRLEA CRESENT	1650	GENARO HERNANDEZ & KIM DERODRIGUEZ
FAIRLEA CRESENT	1654	HEINRICH BERGEN
FAIRLEA CRESENT	1655	RUDOLF & ELIZABETH BAUMANN
FAIRLEA CRESENT	1659	FRANK CAPPELLI
FAIRLEA CRESENT	1660	JASON WALL
FAIRLEA CRESENT	1664	DALE & TANYA DILLEN
FAIRLEA CRESENT	1645	BARBARA GRIEVE
FAIRLEA CRESENT	1651	CYNTHIA WARE
FAIRLEA CRESENT	1655	JOSE PACHECO
FAIRLEA CRESENT	1661	MATTHEW MCRAE
FAIRLEA CRESENT	1665	GUILLERMO & ELIZABETH WIEBE
GREENWOOD ROAD	1485	ROBERT & CATHERINE TANNER
GREENWOOD ROAD	1487	HELENA & JACOB KRAHN
GREENWOOD ROAD	1504	CORNELIUS & SUSANA THIESSEN
GREENWOOD ROAD	1506	DAVID & PATRICIA POWELL
GREENWOOD ROAD	1508	GREGORY & PEGGY MOCKLER
GREENWOOD ROAD	1509	EMIL KUNTZ
GREENWOOD ROAD	1510	JAMES & JENNIFER GUALTIERI
GREENWOOD ROAD	1512	PAUL & NANCY SEBELE
GREENWOOD ROAD	1514	ROBERT KING
GREENWOOD ROAD	1516	FRANK FRIESEN & MARIA KNELSEN
LEE ROAD	1556	JOHN & SHARON PARENT
LEE ROAD	1557	DIEDRICH & SARA KNELSEN
LEE ROAD	1563	JOSEPH & LORI BERESH
LEE ROAD	1565	SARA KNELSEN
MAYFAIR STREET	1828	DAVID WALL & ELIZABETH BRAUN
MAYFAIR STREET	1832	DAVID WALL & ELIZABETH BRAUN
MAYFAIR STREET	1836	DAVID LOPEZ & JILL GEDDES
MAYFAIR STREET	1837	ANNITA MATTIA
MAYFAIR STREET	1842	CARLOS SANTOS
MAYFAIR STREET	1846	TONINO & GLORIA DI MENNA
MAYFAIR STREET	1850	AARON & MARGARETA NEUFELD
MAYFAIR STREET	1856	ABRAM FRIESSEN & HELENA BOSCHMAN
MAYFAIR STREET	1860	CLIFFORD & DOREEN NEUTS
MAYFAIR STREET	1864	KEVIN & LORI DAVID
NEVAN COURT	1680	DAVID & MARIA REIMER
NEVAN COURT	1681	DONALD FURTADO & DIANE QUADROS
NEVAN COURT	1682	BRIAN & DIANE STOCKTON

LIST OF AFFECTED LAND OWNERS

STREET NAME	ADDRESS NUMBER	NAME OF OWNERS
NEVAN COURT	1683	CHARLIE & NICOLE ABDUL-MASSIH
NEVAN COURT	1684	JASON & MILKA PIEPER
NEVAN COURT	1685	1552843 ONTARIO LTD
NEVAN COURT	1686	LUIS & NELIA MONIZ
NOAH CRESENT	1690	1552843 ONTARIO LTD
NOAH CRESENT	1691	1552843 ONTARIO LTD
NOAH CRESENT	1692	1552843 ONTARIO LTD
NOAH CRESENT	1693	KEITH & SHARON BOEHME
NOAH CRESENT	1694	1552843 ONTARIO LTD
NOAH CRESENT	1695	STEPHEN & MICHELLE MARCOVECCHIO
NOAH CRESENT	1696	ADAM & SANDRA PILLON
NOAH CRESENT	1697	KEVIN & JENNY CARDOSO
NOAH CRESENT	1698	1552843 ONTARIO LTD
NOAH CRESENT	1699	LOUIS & REBECCA RODRIGUES
NOAH CRESENT	1700	1552843 ONTARIO LTD
NOAH CRESENT	1701	MICHAEL DIAB & DEANNA MATHIES
NOAH CRESENT	1702	1552843 ONTARIO LTD
NOAH CRESENT	1703	DOMENICO MUCCI
NOAH CRESENT	1704	SUSY TEIXEIRA
NOAH CRESENT	1705	1552843 ONTARIO LTD
PEACH DRIVE	1506	JOHN & WILHELMINA VANDERBEEK
PEACH DRIVE	1512	CHEING & NGOP TANG
PEACH DRIVE	1520	RANDAL & NOREEN NASH
PEACH DRIVE	1526	HARRIS BICKFORD & DIANE MCKNIGHT
PEACH DRIVE	1532	ANTONIO & CHARLYNN ACOSTA
PEACH DRIVE	1533	MARY INGRATTA
PEACH DRIVE	1538	JOE & CONNIE CADILHAS
PEACH DRIVE	1539	ERIC & SUSANNE TIESSEN
PEACH DRIVE	1544	GARY & FERNANDA GILLIS
PEACH DRIVE	1545	ALLAN & VIRGINIA CAMPBELL
PRINCE STREET	1558	MARVIN & HELENA KLASSEN
PRINCE STREET	1559	KELLY BLAKE
PRINCE STREET	1560	EVA STEIN
PRINCE STREET	1561	MARCOVECCHIO CONSTRUCTION LTD
PRINCE STREET	1564	PAUL WIGLE & STACY DESCHAMPS
PRINCE STREET	1568	AMANDA GRAY
PRINCE STREET	300-25900	UNITED CHURCH OF CANADA
QUEEN BLVD.	1824	STANLEY & SHEILA BALTZER
QUEEN BLVD.	1832	ROBERTO & MARIA PIMENTEL
QUEEN BLVD.	1838	RANDY & MARY THIESSEN
QUEEN BLVD.	1842	VIRGILIO & MARIA PEREIRA
QUEEN BLVD.	1852	JOHN & BESSIE UNRAU
QUEEN BLVD.	1856	MARIA CAPUSSI & GIOVANNA DILAUDO
QUEEN BLVD.	1863	DAVID & TAMMIE MILLS
QUEEN BLVD.	1866	DAVID & JOANNE GRAHAM
QUEEN BLVD.	1872	JOHN & AGNES PEREIRA
QUEEN BLVD.	1880	MAUREEN RYAN
QUEEN BLVD.	1886	JOSE & TERESA MEDEIROS
QUEEN BLVD.	1899	HEINRICH & MARGARETHA FEHR
QUEEN BLVD.	1907	UNITED CHURCH OF CANADA
QUEEN BLVD.	1916	GEOFFREY & DEBRA DUNMORE
QUEEN BLVD.	1922	ROBERT SHORTT & DEBRA DUNMORE
QUEEN BLVD.	300-29401	KINGSVILLE TOWN
REGENT STREET	1612	MILDRED HALL
REGENT STREET	1616	LEE & BRENDA MILLER
REGENT STREET	1624	MARIO & THERESA CAPPELLI

LIST OF AFFECTED LAND OWNERS

STREET NAME	ADDRESS NUMBER	NAME OF OWNERS
REGENT STREET	1630	JOSEPH & ELIZABETH BERESH
REGENT STREET	1636	CHARLES & DONNA GIRTY
REGENT STREET	1641	MURRAY HARTFORD
REGENT STREET	1642	ETELVINO & FATIMA FREITAS
REGENT STREET	1648	ROBERT MYLES & KAREN SCHILLER
REGENT STREET	1649	DENNIS & MARY BROWN
REGENT STREET	1652	EMILLIO MASSANISSO
REGENT STREET	1655	PETER & ELIZABETH BERGEN
REGENT STREET	1656	DOMENICO & ANTONIETTA MASSANISSO
REGENT STREET	1661	HELENA & VICTOR ANDRADE
REGENT STREET	1662	VELMA NOVAK
REGENT STREET	1665	PAOLINO & ELENA MARCOVECCHIO
REGENT STREET	1668	VINCENZO & MARIA MASTRONARDI
REGENT STREET	1670	CORY & HEATHER LANIGAN
REGENT STREET	1676	LAMBERT & LORIE WYBENGA
REGENT STREET	1680	FREDERICK & SANDRA GRANT
REGENT STREET	290-35700	TOWN OF KINGSVILLE
ROAD 2 EAST	1604	GARRY & DONNA JOHNSON
ROAD 2 EAST	1606	ANGELA SCHNEKENBURGER
ROAD 2 EAST	1608	JOHN & HELEN AFFLECK
ROAD 2 EAST	1612	ABRAHAM BICKER & SUSANA NEUDORF
ROAD 2 EAST	1618	NEIL & TRACY REIMER
ROAD 2 EAST	1622	VINCENZO & SANTINA MARCOVECCHIO
ROAD 2 EAST	1626	JACOB & AGATHA SAWATZKY
ROAD 2 EAST	1628	JEREMY & MINDY COLENUTT
ROAD 2 EAST	1630	HEINRICH & MARGARETHA FRIESEN
ROAD 2 EAST	1634	ARTHUR & HEDWIG TIESSEN
ROAD 2 EAST	1638	TREVOR BROWN & SHERI REEKIE
ROAD 2 EAST	1642	JOHN & ALICE FRIESEN
ROAD 2 EAST	1648	WILHELM & KATHARINA HIEBERT
ROAD 2 EAST	1654	MICHAEL & SANDRA STEIN
ROAD 2 EAST	1660	JOHAN & MARGARETHA FRIESSEN
ROAD 2 EAST	1664	JENNIFER SMITH
ROAD 2 EAST	1671	CAROL & CATHY HARRISON
ROAD 2 EAST	1675	MICHELE DI VINCENZO & MICHELLE HILL
ROAD 2 EAST	1677	CHRISTOPHER & MICHELLE WEBSTER
ROAD 2 EAST	1678	BENJAMIN & TINA REDECOP
ROAD 2 EAST	1679	VICTOR & MARIA PEREIRA
ROAD 2 EAST	1680	JOHAN & HELENA FEHR
ROAD 2 EAST	1681	MARIA & SILVESTRE GONTARDE
ROAD 2 EAST	1682	PETER & HELEN STRAVATO
ROAD 2 EAST	1684	HEINRICH KROEKER & SUSANA FRIESSEN
ROAD 2 EAST	1685	TONINO INGRATTA
ROAD 2 EAST	1688	MARK & MARIANNE WESTERHOFF
ROAD 2 EAST	1689	PETER & MARGARETHA NEUFELD
ROAD 2 EAST	1690	STEVEN & VIKTORIA BARTEL
ROAD 2 EAST	290-22333	DOMENICO MUCCI
ROAD 2 EAST	290-22334	DOMENICO MUCCI
ROAD 2 EAST	1717	MUCCI FARMS LTD
ROAD 3 EAST	1621	MUCCIPAC LTD
ROAD 3 EAST	1657	RUTHVEN INDUSTRIAL PARK
ROAD 3 EAST	1770	BENJAMIN KNELSEN
ROAD 3 EAST	1777	CAROLYN STOCKWELL
ROAD 3 EAST	1808	KRISTOPHER KLASSEN & JENNIF ELLWOOD
ROAD 3 EAST	1824	JOHN & JENNIFER FITTLER
ROAD 2 EAST	1851	SUN GRO FARMS INC

LIST OF AFFECTED LAND OWNERS

STREET NAME	ADDRESS NUMBER	NAME OF OWNERS
ROAD 3 EAST	1882	WALTER & MARLENE DICK
ROAD 3 EAST	1880	AGANETHA GIESBRECHT
ROAD 3 EAST	1892	SARA KLASSEN
ROAD 3 EAST	1906	ANTONIA ALETTA EVERS
ROAD 3 EAST	1908	PETER & ELISABETH DYCK
ROAD 3 EAST	1910	ABRAM & HELENA FRIESEN
ROAD 3 EAST	290-27200	TONY DIMENNA
ROAD 3 EAST	290-27210	RUTHVEN INDUSTRIAL PARK
ROAD 3 EAST	340-00500	FAIRVIEW CEMETERY
ROAD 3 EAST	340-01400	JOHN & JENNIFER FITTLER
SEACLIFF DRIVE	1746	1382296 ONTARIO LIMITED
SEACLIFF DRIVE	1778	GEMINO & VENERANDA MASTRONARDI
SEACLIFF DRIVE	1798	FRANK MASTRONARDI
SEACLIFF DRIVE	1801	RICHARD & ANNA GUENTHER
SEACLIFF DRIVE	1808	ANTONIO & ELENA DIMENNA
SEACLIFF DRIVE	1809	SHEILA FORMAN
SEACLIFF DRIVE	1814	SOUTHSHORE GREENHOUSES INC
SEACLIFF DRIVE	1818	WILL & HELENA WIEBE
SEACLIFF DRIVE	1827	MOHAMED JOSEPH
SEACLIFF DRIVE	1838	NEIL & ANJANETTE MACTAVISH
SEACLIFF DRIVE	1875	2462284 ONTARIO INC
SEACLIFF DRIVE	1876	MUCCI FARMS LTD
SEACLIFF DRIVE	1881	ENRICO MASTRONARDI
SEACLIFF DRIVE	1899	ENRICO & ANNA MASTRONARDI
SEACLIFF DRIVE	1907	ALBERT MASTRONARDI
SEACLIFF DRIVE	1911	H & A MASTRONARDI FARMS LTD
SEACLIFF DRIVE	1916	MAXINE & JOSEPH KNIGHT
SEACLIFF DRIVE	1920	ERIEVIEW ACRES INC
SEACLIFF DRIVE	1930	2269029 ONTARIO LIMITED
SEACLIFF DRIVE	290-08300	FIORINA CAPUSSI
SEACLIFF DRIVE	290-08700	PHYLLIS HICKS
SERVICE ROAD	1822	ANNA VALERI & ROSE SPIDALIERI
SERVICE ROAD	1828	DAVID & JUSTINA FEHR
SERVICE ROAD	1832	KENNETH BRUNER
SERVICE ROAD	1836	BENJAMIN & AGATHA BOSCHMAN
SERVICE ROAD	1838	DAVID FRIESEN
SERVICE ROAD	1842	ABRAM WALL
SERVICE ROAD	1852	RAYMOND KENNETTE
SERVICE ROAD	1856	ABRAM & KATHERINA DYCK
SERVICE ROAD	1860	ERCOLINO DI MENNA & VIORICA JEFFERY
SERVICE ROAD	1866	JOAO & ISALTINA REGO
TALBOT ROAD	1611	TONY & MICHELE DIMENNA
TALBOT ROAD	1626	JAMES BISHOP & ADELAIDA TAGA-OC
TALBOT ROAD	1629	GORDON & HEATHER EPP
TALBOT ROAD	1630	RENZE & MARJORIE POSTMA
TALBOT ROAD	1636	PASQUALE & JO ANNE MATTIA
TALBOT ROAD	1640	HUMBERTO PAVAO
TALBOT ROAD	1664	TRUSTEES OF CORNERSTONE CUMMUN
TALBOT ROAD	1696	TONY & MICHELE DIMENNA
TALBOT ROAD	1710	RICHARD & WINNIFRED NEAL
TALBOT ROAD	1714	JOHAN & ANNA HILDEBRAND
TALBOT ROAD	1750	DINO & VERA DIMENNA
TALBOT ROAD	1766	TONY & MICHELLE DIMENNA
TALBOT ROAD	1768	ROBERT GRAHAM
TALBOT ROAD	1771	617812 ONTARIO LIMITED
TALBOT ROAD	1778	JOHAN & JUSTINA GIESBRECHT

L. ZARLENGA

THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

RC SPENCER ASSOCIATES INC. Consulting Engineers

NO.	REVISION	DATE	BY	APP.
5.				
4.				
3.				
2.				
1.				

DESIGN	L.Z.
CHECKED	A.M.S.
DRAWN	A.A.H.
CHECKED	R.C.S.
DATE	JUNE 17, 2016
SCALE	AS SHOWN

ESSELTINE DRAIN

LIST OF AFFECTED LAND OWNERS

PROJECT NO. 14-425

SHEET NO. 3 OF 47

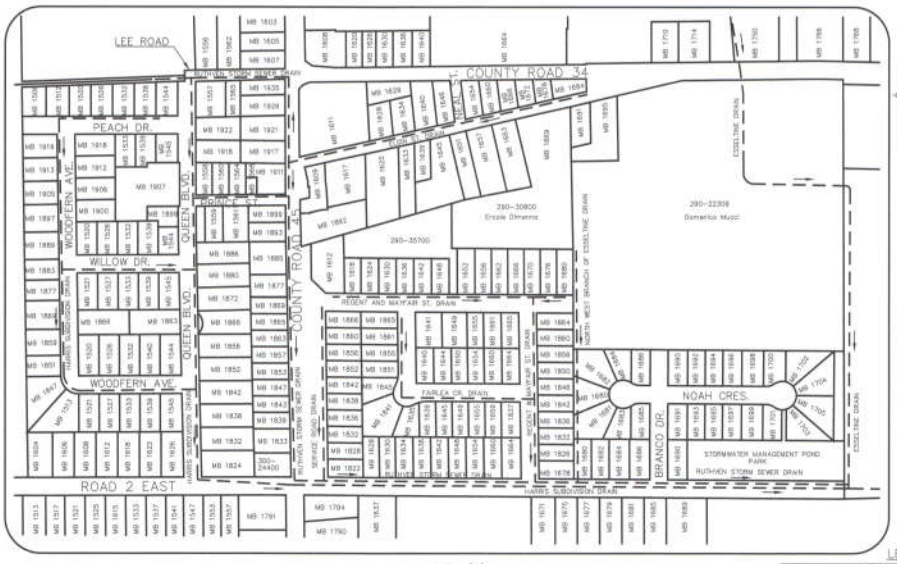
LIST OF AFFECTED LAND OWNERS		
STREET NAME	ADDRESS NUMBER	NAME OF OWNERS
TALBOT ROAD	1784	NELSON & KIMBERLY ANDRADE
TALBOT ROAD	1794	JEREMY CHOBROA
TALBOT ROAD	1802	MICHAEL MASTRONARDI
TALBOT ROAD	1810	HARRY & GUGLIELMINA KELLER
TALBOT ROAD	1811	FRANCO & CRISTINA PORRONE
TALBOT ROAD	1818	RICHARD ENNS
TALBOT ROAD	1821	MARY PORRONE
TALBOT ROAD	1831	JOHN GEORGE & MADELEINE MUNRO
TALBOT ROAD	1834	ERIC & CINDY ZIMMER
TALBOT ROAD	1838	ROY HALL
TALBOT ROAD	1841	JUAN & ELISABETH DYCK
TALBOT ROAD	1846	ABRAM & HELENA PENNER
TALBOT ROAD	290-22309	DOMENICO MUCCI
TALBOT ROAD	290-22102	792743 ONTARIO INC
TALBOT ROAD	290-31902	792743 ONTARIO INC
TALBOT ROAD	290-23301	971117K ONTARIO INC
TALBOT ROAD	290-22100	CRISTINA PORRONE
UNION AVENUE	1825	ABRAM & ANNA GIESBRECHT
UNION AVENUE	1833	ROSEMARY & JOHN FEDERSEN

LIST OF AFFECTED LAND OWNERS		
STREET NAME	ADDRESS NUMBER	NAME OF OWNERS
UNION AVENUE	1839	ROBYN RAE LANGLOIS
UNION AVENUE	1843	DAVID & MARIA FRIESEN
UNION AVENUE	1847	BRIAN & DIANE STOCKTON
UNION AVENUE	1853	JOHN & BARBARA POTTER
UNION AVENUE	1857	MITSUJI YAMAMOTO
UNION AVENUE	1863	ONT. ABORIGINAL HOUSING SUPPORT
UNION AVENUE	1865	COREY & TAMMY LECLAIRE
UNION AVENUE	1888	JACOB GERARD & CHARLOTTE HILLIS
UNION AVENUE	1877	ROBERT & ROSE HAINES
UNION AVENUE	1885	ADAM WILHELM & MICHELLE WARMERDAM
UNION AVENUE	1892	EVA HARMS & JACOB HARMS-DYCK
UNION AVENUE	1893	MARCOVECCHIO HOLDINGS INC
UNION AVENUE	1899	MARCOVECCHIO CONSTRUCTION LTD
UNION AVENUE	1911	LARRY & ANN DUNMORE
UNION AVENUE	1917	DONALD & HEATHER DUNMORE
UNION AVENUE	1921	PETER & JUSTINA QUIRINI
UNION AVENUE	1929	KAREN BROWN
UNION AVENUE	1935	ROGER PARENT
WHITEWOOD ROAD	1496	JEAN TONLE

LIST OF AFFECTED LAND OWNERS		
STREET NAME	ADDRESS NUMBER	NAME OF OWNERS
WHITEWOOD ROAD	1498	JEAN TONLE
WHITEWOOD ROAD	1503	JOHN & LOUISE WEBB
WHITEWOOD ROAD	1502	DAVID & JACQUELINE SULLIVAN
WHITEWOOD ROAD	1504	JEAN-MARC & ISABELLA PINSONNEAULT
WHITEWOOD ROAD	1506	STEVEN MARCHANDI & FELICIA RICO
WHITEWOOD ROAD	1508	DAVID & SUSAN WHITE
WHITEWOOD ROAD	1509	BRIAN & SONYA CORNIES
WHITEWOOD ROAD	1510	SCOTT SHILSON
WHITEWOOD ROAD	1511	ROBERT & CATHY BAKER
WHITEWOOD ROAD	1512	DAVID DANN
WHITEWOOD ROAD	1513	ALINE ROCKS
WHITEWOOD ROAD	1514	JIN ZHU
WHITEWOOD ROAD	1515	GYPSY DAWROLL
WHITEWOOD ROAD	1516	GEOFFREY GARDNER JENNIFER FRASER
WHITEWOOD ROAD	1517	GARRY & KRISTYN SYMONS
WHITEWOOD ROAD	1518	JEN BALTZER
WHITEWOOD ROAD	1519	LAURA & JAMES STEVENSON
WHITEWOOD ROAD	1520	JASON & JENNIFER COPE
WHITEWOOD ROAD	1522	LEO & KATHY PROBE

LIST OF AFFECTED LAND OWNERS		
STREET NAME	ADDRESS NUMBER	NAME OF OWNERS
WHITEWOOD ROAD	290-10601	KINGSVILLE TOWN
WILLOW DRIVE	1520	JOHAN & SARA HILDEBRANDT
WILLOW DRIVE	1521	GERARDO & ANNA NEUFELD
WILLOW DRIVE	1526	MARY ANN BECHARD
WILLOW DRIVE	1527	KENNETH & SUSAN COSFORD
WILLOW DRIVE	1532	FRANK & NELNORA GUENTHER
WILLOW DRIVE	1533	TRACEY YOUNG
WILLOW DRIVE	1538	HENRICH & SARA HILDEBRAND
WILLOW DRIVE	1539	PHILIP & LYDIA HAMM
WILLOW DRIVE	1544	JOSE & MARIA FURTADO
WILLOW DRIVE	1545	JACOB & ANNA NEUFELD
WOODFERN AVENUE	1513	DARRELL & JULIE SCRATCH
WOODFERN AVENUE	1520	AARON & MARIA WALL
WOODFERN AVENUE	1521	ISAAC & AMY NEUFELD
WOODFERN AVENUE	1526	PETER & JUSTINA BERGEN
WOODFERN AVENUE	1527	JOSEPH & COLETTE PEREIRA
WOODFERN AVENUE	1532	KIRSTYN FARNSWORTH
WOODFERN AVENUE	1533	NICK & ROSINA TOTARO
WOODFERN AVENUE	1539	JOHN & BARBARA BAKER

LIST OF AFFECTED LAND OWNERS		
STREET NAME	ADDRESS NUMBER	NAME OF OWNERS
WOODFERN AVENUE	1540	FRANK QUATRINI
WOODFERN AVENUE	1544	MARY RUSSELO
WOODFERN AVENUE	1545	ROGER RUSSELO
WOODFERN AVENUE	1847	PEDRO & MAGARETHA KNELSEN
WOODFERN AVENUE	1851	RUDY & HELEN SPITSE
WOODFERN AVENUE	1859	TODD & MARTHA JENNER
WOODFERN AVENUE	1866	VICTOR & MARIA PEREIRA
WOODFERN AVENUE	1868	CAROLYN WENZLER
WOODFERN AVENUE	1877	MAXIMINO & MARIA MATEUS
WOODFERN AVENUE	1883	JOCHEM & JANNY WARDENBERG
WOODFERN AVENUE	1888	ARMANDO PALLOTTA
WOODFERN AVENUE	1897	JUAN BOSCHMAN & ANNA FEHR
WOODFERN AVENUE	1900	MANUEL & ERMELINDA FURTADO
WOODFERN AVENUE	1905	ABRAM PENNER & MARIA DYCK
WOODFERN AVENUE	1906	RAYMOND & GAIL FOSTER
WOODFERN AVENUE	1912	MARY-ELIZABETH SCHAUER
WOODFERN AVENUE	1913	ISAAC & HELENA FEHR
WOODFERN AVENUE	1918	BERNHARD ENNS & MARIA SCHROEDER
WOODFERN AVENUE	1919	DAVID & ROSALINA CABRAL
	300-00030	CONSERVATION AUTHORITY ESSEX



DETAIL 'B'
SCALE: 1:2000

DETAIL 'A'
SCALE: 1:2000

LEGEND

- - - - DENOTES EXISTING MUNICIPAL DRAIN

THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

B.C. SPENCER ASSOCIATES inc
Consulting Engineers

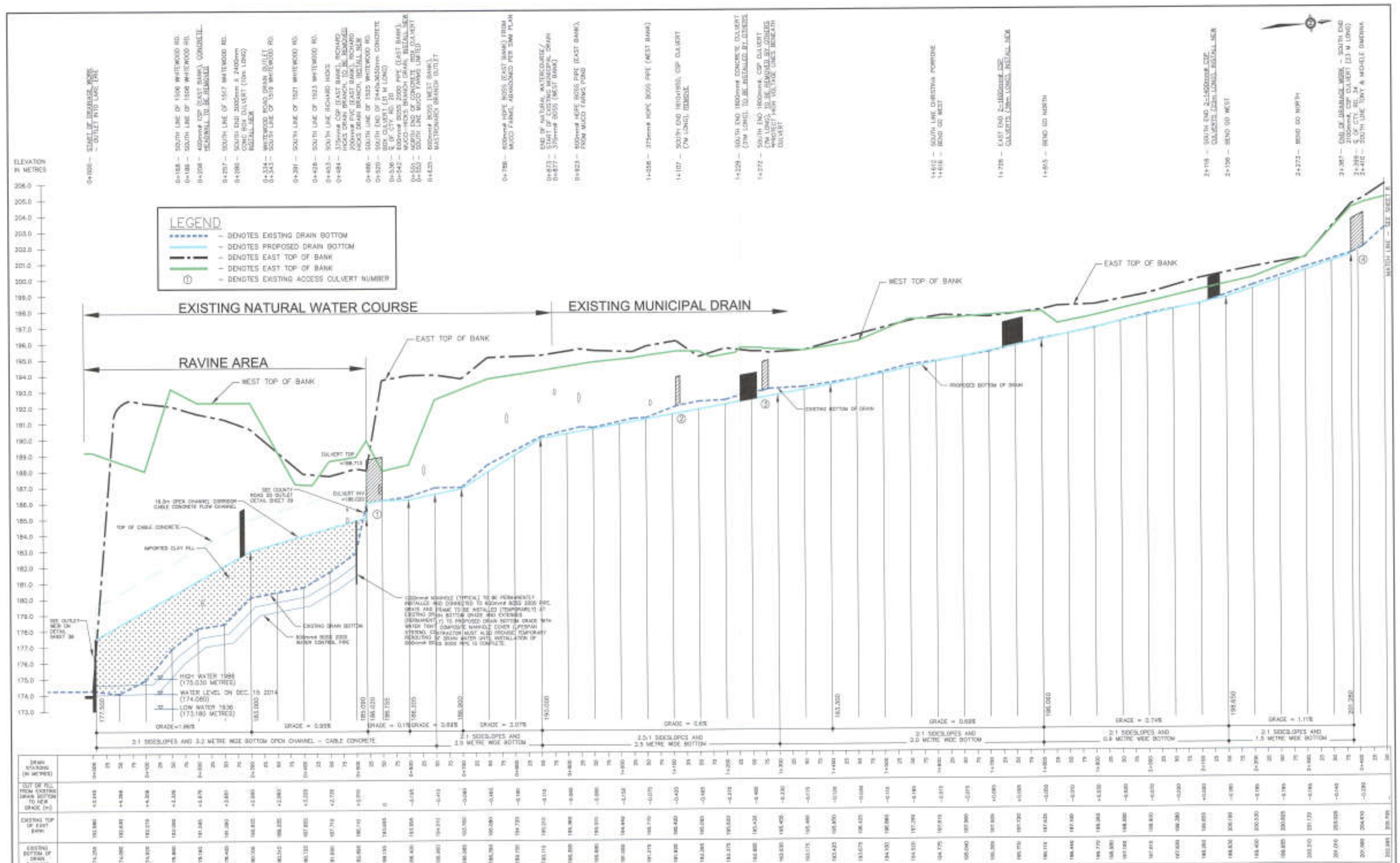
NO.	REVISION	DATE	BY	APP.
6.				
4.				
3.				
2.				
1.				

DESIGN: L.C.
CHECKED: A.M.S.
DRAWN: A.A.H.
CHECKED: R.C.H.
DATE: JUNE 17, 2015
SCALE: 1:2000

ESSELTINE DRAIN

LIST OF AFFECTED LAND OWNERS CONTINUED

PROJECT NO. 14-425
SHEET NO. 4
OF 47



THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

RC SPENCER ASSOCIATES INC. Consulting Engineers

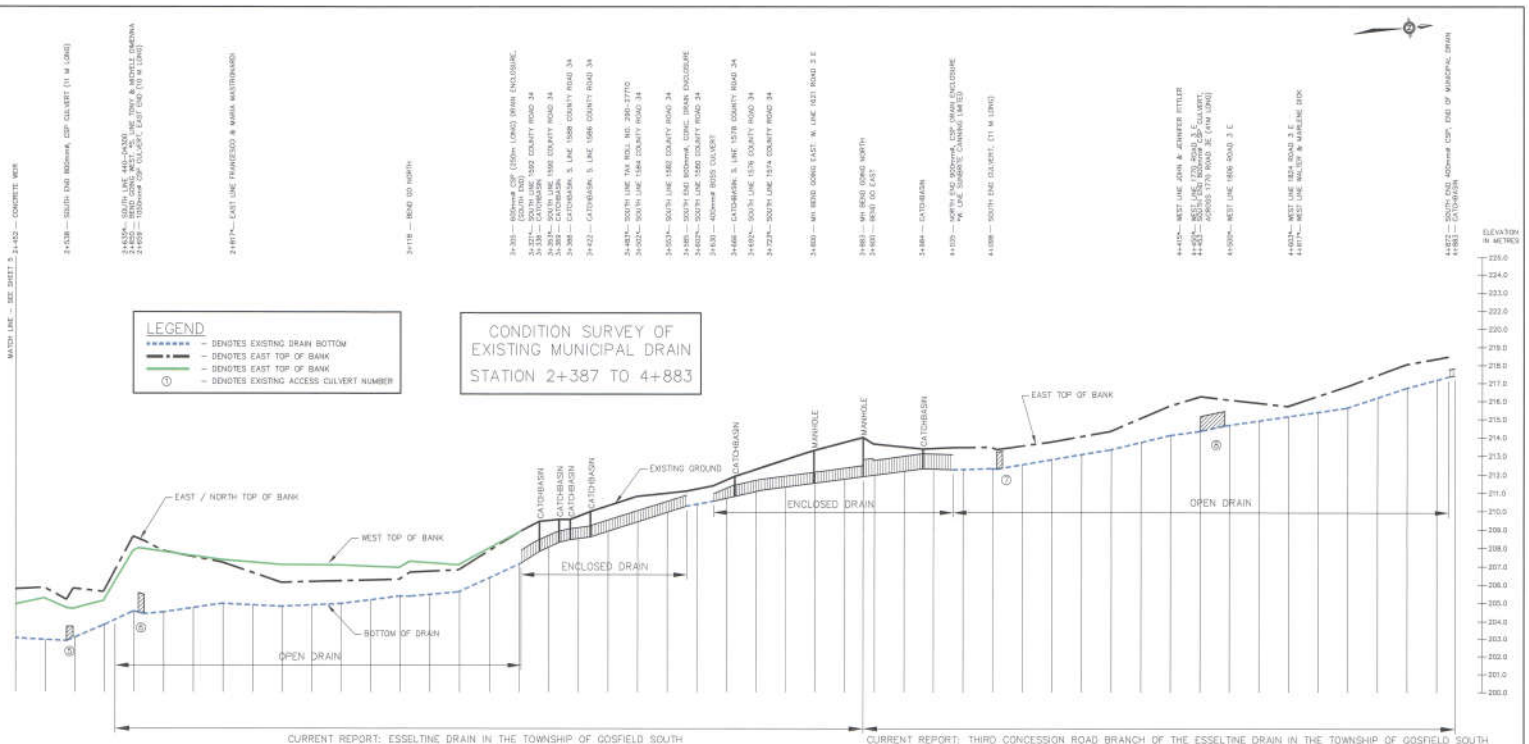
NO.	REVISION	DATE	BY	APP.
5				
4				
3				
2				
1				

DESIGN	L.Z.
CHECKED	A.M.D.
DRAWN	A.A.H.
CHECKED	R.C.S.
DATE	JUNE 17, 2016
SCALE	H=1:2500 V=1:100

ESSELTINE DRAIN

PROFILE
STATIONS 0+000 TO 2+450

PROJECT NO. 14-425
SHEET NO. 5
OF 47



DRAIN STATIONS (IN METRES)	CUT OR FILL FROM EXISTING TOP OF BANK TO NEW GRADE (m)	EXISTING TOP OF CANT BANK	EXISTING BOTTOM OF DRAIN (METRES)
2+387	-	205.700	203.986
2+400	-	205.790	203.999
2+425	-	205.740	203.720
2+450	-	205.500	203.720
2+475	-	205.500	204.490
2+500	-	205.300	204.440
2+525	-	207.800	204.630
2+550	-	207.480	204.805
2+575	-	207.180	204.805
2+600	-	208.830	204.805
2+625	-	208.980	204.740
2+650	-	208.770	204.805
2+675	-	209.110	204.860
2+700	-	209.190	205.109
2+725	-	208.320	205.305
2+750	-	208.300	205.420
2+775	-	208.700	205.340
2+800	-	207.870	206.320
2+825	-	208.800	207.110
2+850	0		208.805
2+875	0		208.460
2+900	0		208.870
2+925	0		208.460
2+950	0		208.876
2+975	0	211.110	210.983
3+000	0	211.028	211.110
3+025			210.835
3+050			211.140
3+075	0		0
3+100	0		0
3+125	0		0
3+150	0		0
3+175	0		0
3+200	0		0
3+225	0		0
3+250	0		0
3+275	0		0
3+300	0		0
3+325	0		0
3+350	0		0
3+375	0		0
3+400	0		0
3+425	0		0
3+450	0		0
3+475	0		0
3+500	0		0
3+525	0		0
3+550	0		0
3+575	0		0
3+600	0		0
3+625	0		0
3+650	0		0
3+675	0		0
3+700	0		0
3+725	0		0
3+750	0		0
3+775	0		0
3+800	0		0
3+825	0		0
3+850	0		0
3+875	0		0
3+900	0		0
3+925	0		0
3+950	0		0
3+975	0		0
4+000	0		0
4+025	0		0
4+050	0		0
4+075	0		0
4+100	0		0
4+125	0		0
4+150	0		0
4+175	0		0
4+200	0		0
4+225	0		0
4+250	0		0
4+275	0		0
4+300	0		0
4+325	0		0
4+350	0		0
4+375	0		0
4+400	0		0
4+425	0		0
4+450	0		0
4+475	0		0
4+500	0		0
4+525	0		0
4+550	0		0
4+575	0		0
4+600	0		0
4+625	0		0
4+650	0		0
4+675	0		0
4+700	0		0
4+725	0		0
4+750	0		0
4+775	0		0
4+800	0		0
4+825	0		0
4+850	0		0
4+875	0		0
4+883	0		0

THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

RC SPENCER ASSOCIATES INC
Consulting Engineers
Professional Engineers Ontario

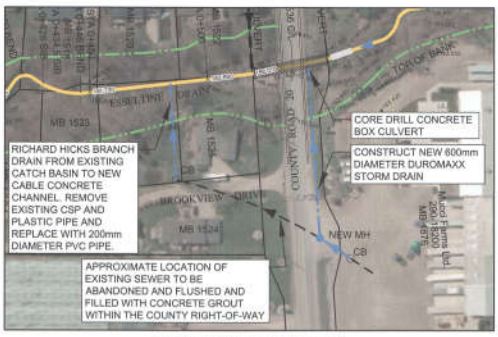
NO.	REVISION	DATE	BY	APP.
3				
4				
5				
6				
7				

DESIGN L.E.
CHECKED A.W.S.
DRAWN A.A.H.
CHECKED R.E.S.
DATE JUNE 17, 2016
SCALE H=1:500 V=1:100

ESSELTINE DRAIN

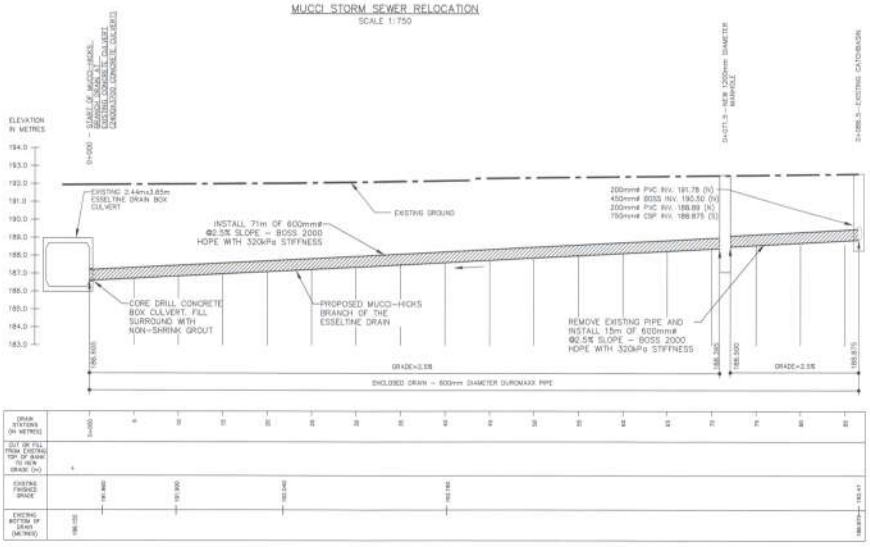
PROFILE
STATIONS 2+450 TO 4+883

PROJECT NO. 14-425
SHEET NO. 6
OF 47

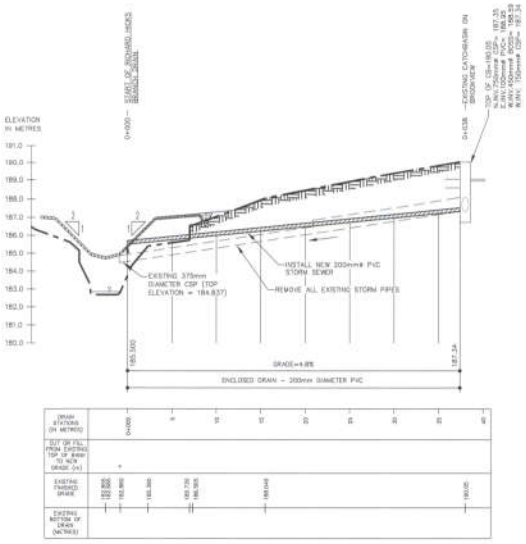


MUCCI STORM SEWER RELOCATION
SCALE 1:750

LEGEND
- - - - DENOTES EXISTING MUNICIPAL DRAIN BRANCH
— · — DENOTES NEW MUNICIPAL DRAIN BRANCH



PROPOSED MUCCI-HICKS BRANCH DRAIN
STA. 0+542 OF MAIN ESSELTINE DRAIN



PROPOSED RICHARD HICKS BRANCH DRAIN
STA. 0+484 OF MAIN ESSELTINE DRAIN

THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

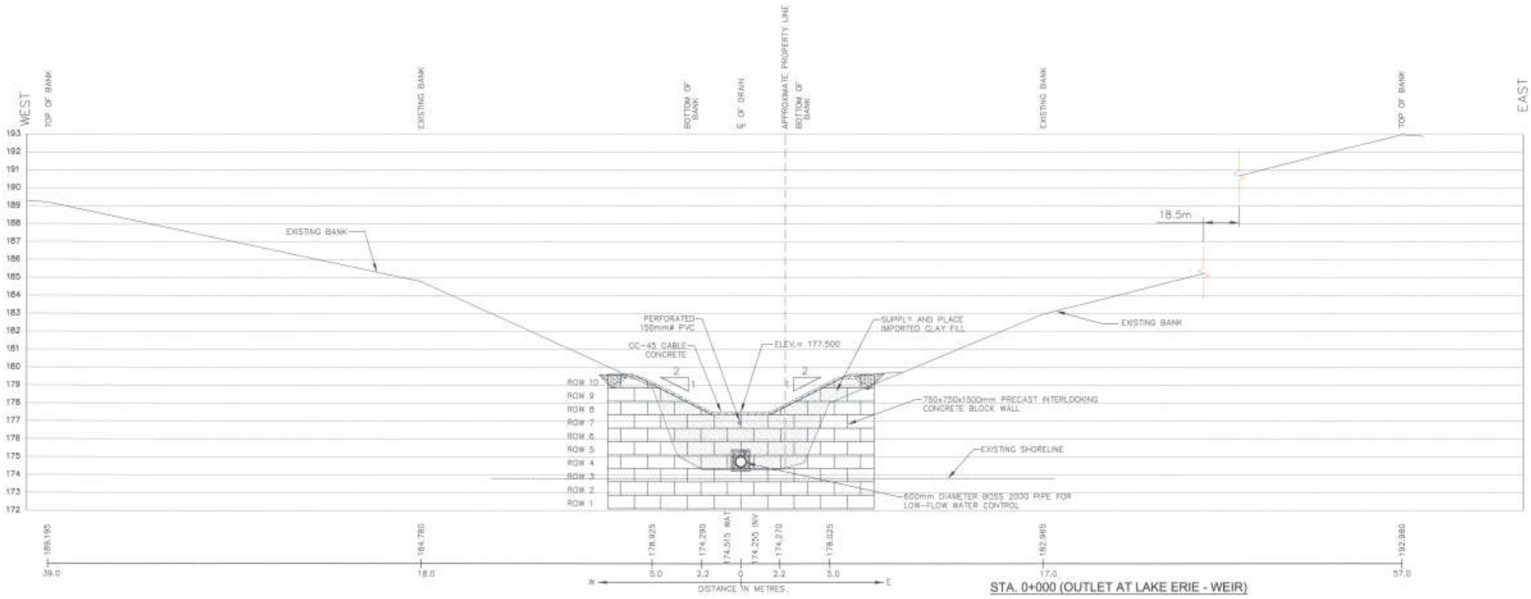
RC SPENCER ASSOCIATES INC. Consulting Engineers

NO.	REVISION	DATE	BY	APP.
5.				
4.				
3.				
2.				
1.				

DESIGN L.Z.
CHECKED A.M.G.
DRAWN A.A.N.
CHECKED R.C.S.
DATE JUNE 13, 2019
SCALE 1:750 1:50

ESSELTINE DRAIN
NEW BRANCH DRAIN PROFILES

PROJECT NO. 14-425
SHEET NO. 7
OF 47



STA. 0+000 (OUTLET AT LAKE ERIE - WEIR)

SEE SHEET 38 ADDITIONAL CONSTRUCTION DETAILS FOR OUTLET WEIR

0 5m 10m 15m 20m

SCALE

THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

RC SPENCER ASSOCIATES INC. Consulting Engineers

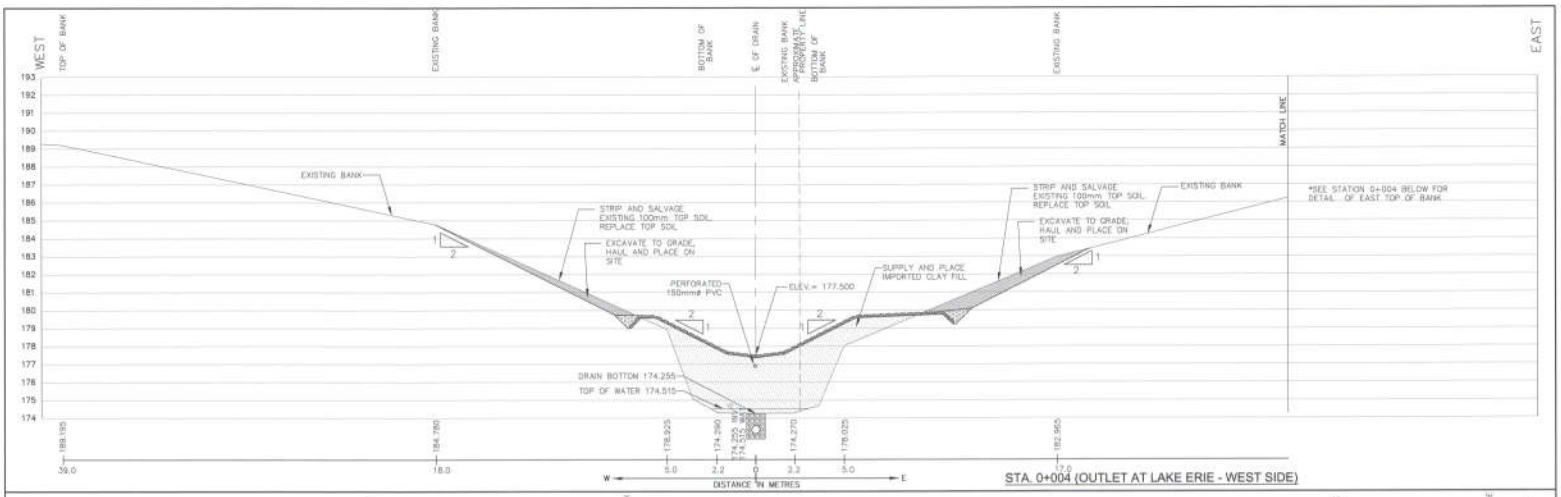
NO.	REVISION	DATE	BY	APP.
5.				
4.				
3.				
2.				
1.				

DESIGN L.Z.
CHECKED A.M.E.
DRAWN A.A.H.
CHECKED R.C.S.
DATE JUNE 17, 2016

ESSELTINE DRAIN

CROSS-SECTION
STA. 0+000 (WEIR DETAIL)

PROJECT NO. 14-425
SHEET NO. 8
OF 47



STA. 0+004 (OUTLET AT LAKE ERIE - WEST SIDE)

STA. 0+004 (OUTLET AT LAKE ERIE - EAST SIDE)

THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

M. SPENCER ASSOCIATES INC.
Consulting Engineers

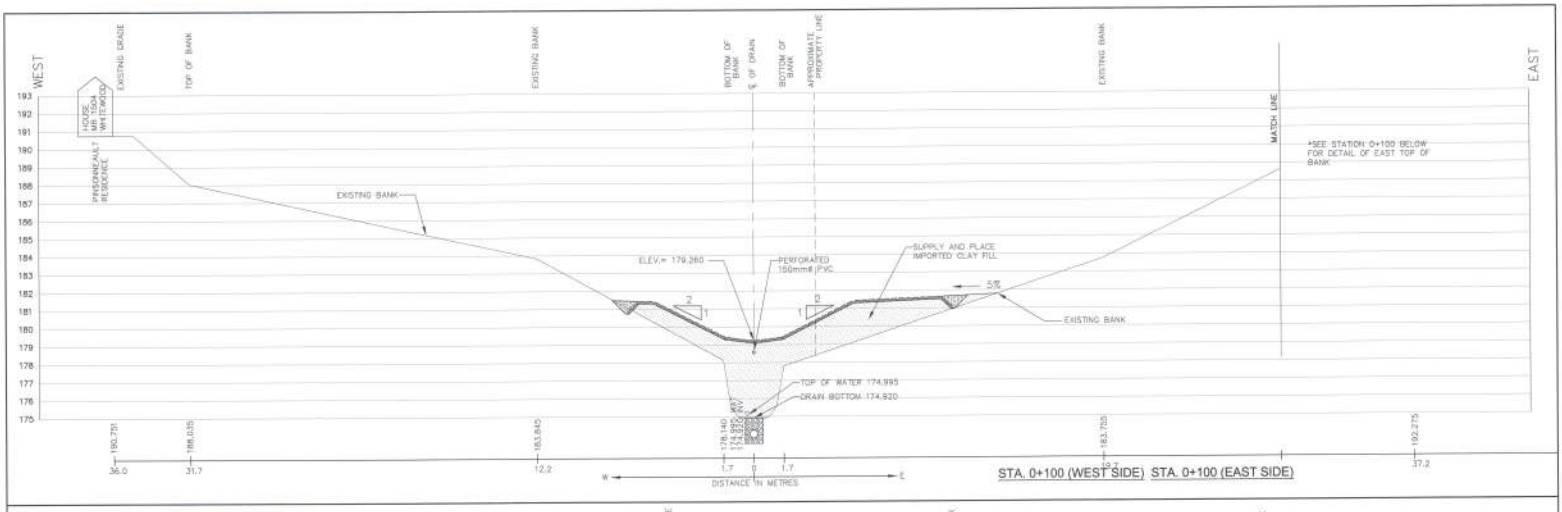
NO.	REVISION	DATE	BY	APP.
5.				
4.				
3.				
2.				
1.				

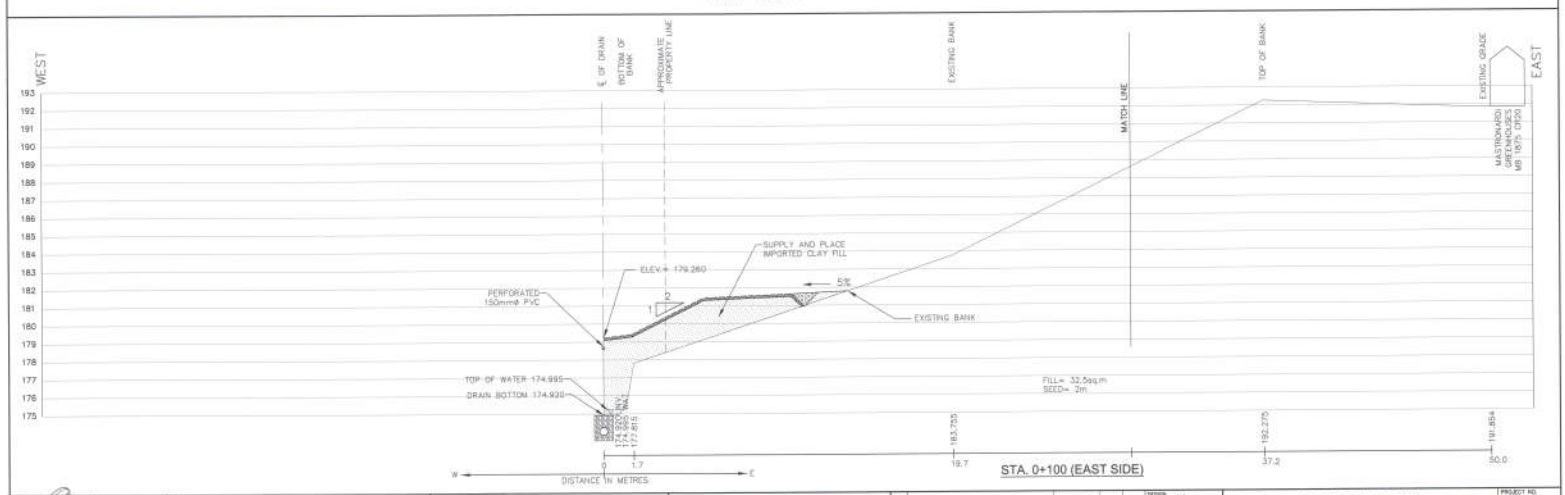
DESIGN L.Z.
CHECKED A.M.S.
DRAWN A.A.H.
CHECKED R.G.S.
DATE JUNE 17, 2015
SCALE 8x11 (1/2) 1x11 (1/1)

ESSELTINE DRAIN

CROSS-SECTIONS
STA. 0+004

PROJECT NO. 14-425
SHEET NO. 9 OF 47





THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE.

L. ZWEERINK

Kingsville ONTARIO

E.C. SPENCER ASSOCIATES INC.
Consulting Engineers

NO.	REVISION	DATE	BY	APP.
5.				
4.				
3.				
2.				
1.				

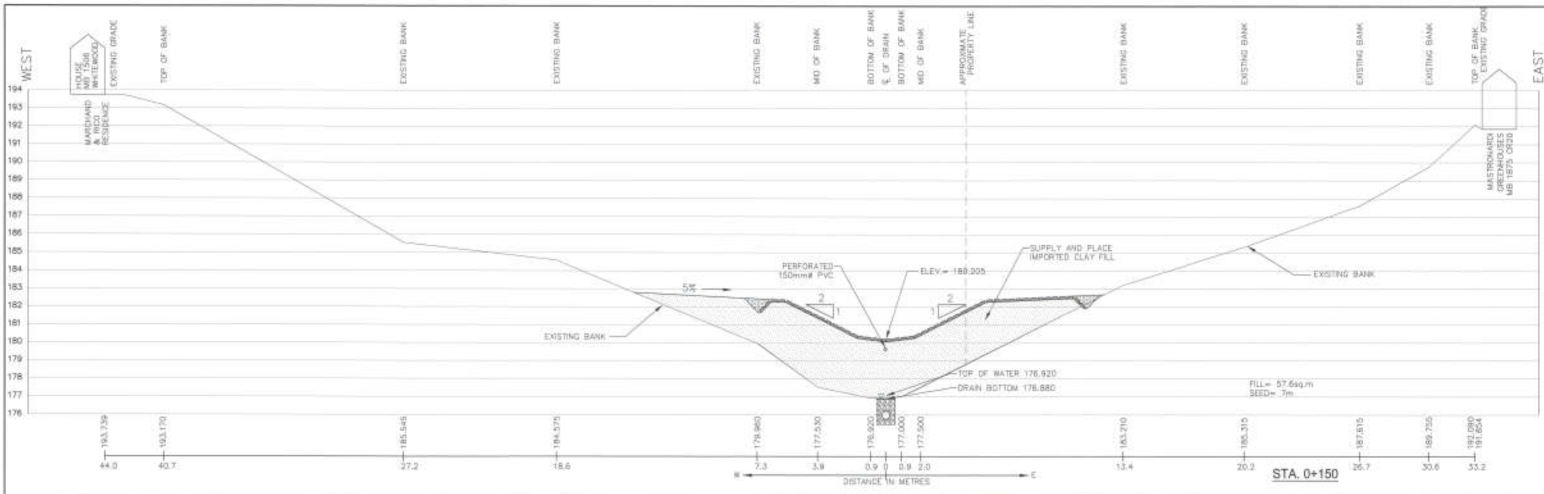
DESIGN	L.Z.
CHECKED	A.M.G.
DRAWN	A.A.K.
CHECKED	R.G.S.
DATE	JUNE 17, 2016
SCALE	HORZ 1:100 VERT 1:100

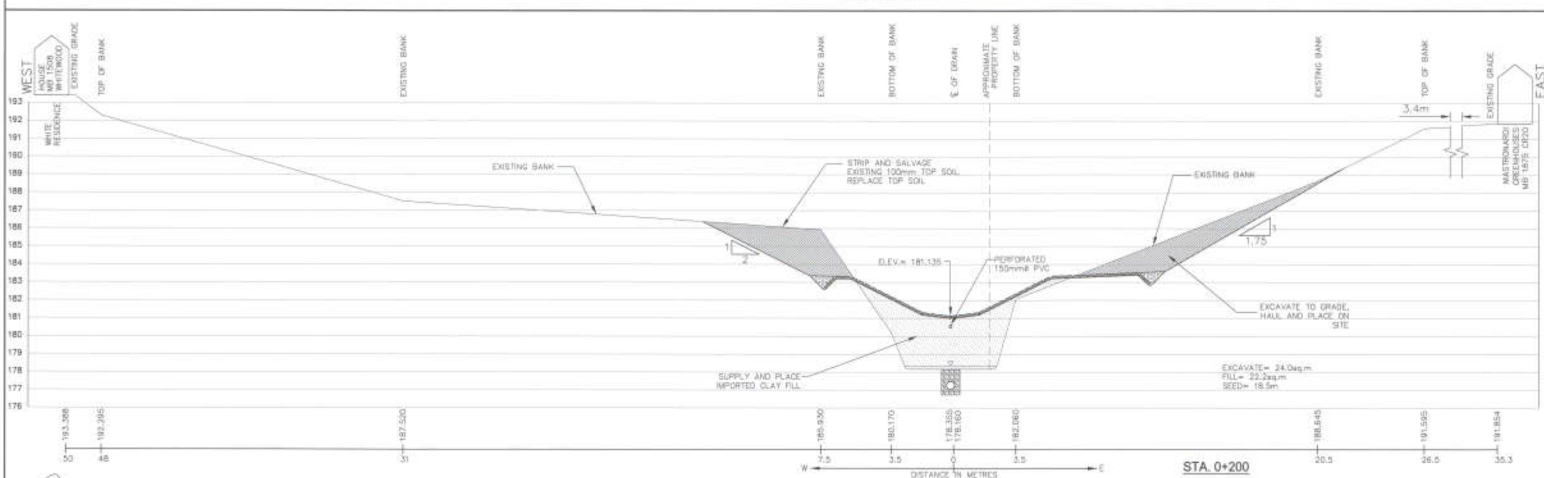
ESSELTINE DRAIN

CROSS-SECTIONS
STA. 0+100

PROJECT NO. 14-425

SHEET NO. 10 OF 47





THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

RC SPENCER ASSOCIATES INC. Consulting Engineers

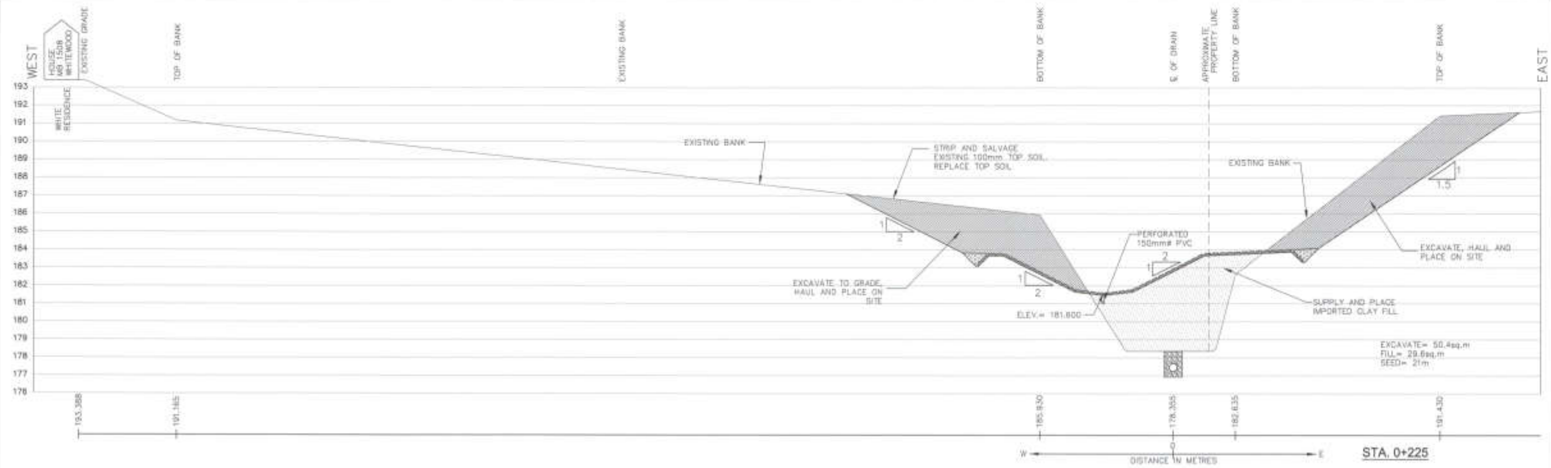
NO.	REVISION	DATE	BY	APP.
5.				
4.				
3.				
2.				
1.				

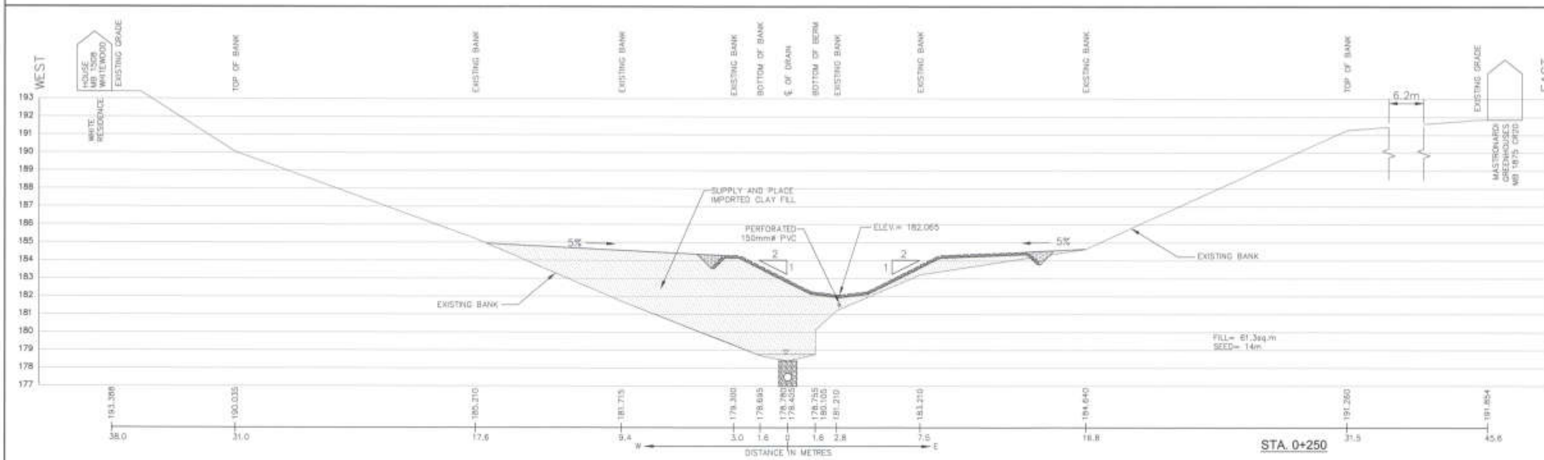
DESIGN	L.Z.
CHECKED	A.M.G.
DRAWN	A.A.H.
CHECKED	R.G.S.
DATE	JUNE 17, 2016
SCALE	H=1:100 V=1:100

ESSELTINE DRAIN

CROSS–SECTIONS
STA. 0+150 to STA. 0+200

PROJECT NO. 14–425
SHEET NO. 11
OF 47





THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

RC SPENCER ASSOCIATES Inc. Consulting Engineers

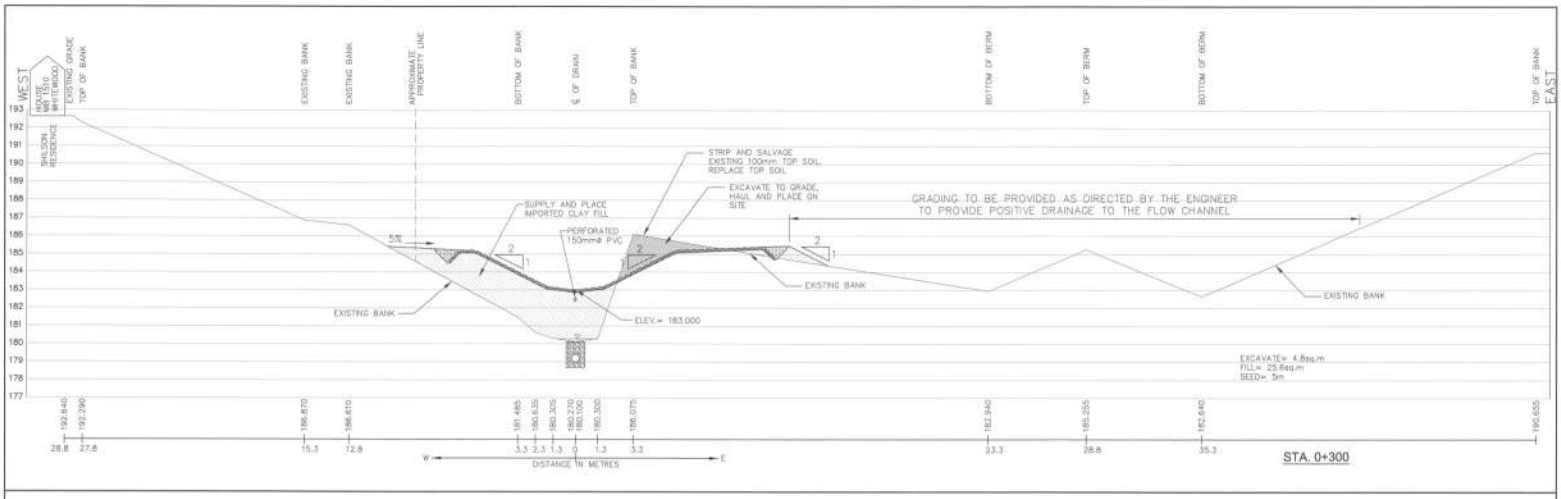
NO.	REVISION	DATE	BY	APP.
5.				
4.				
3.				
2.				
1.				

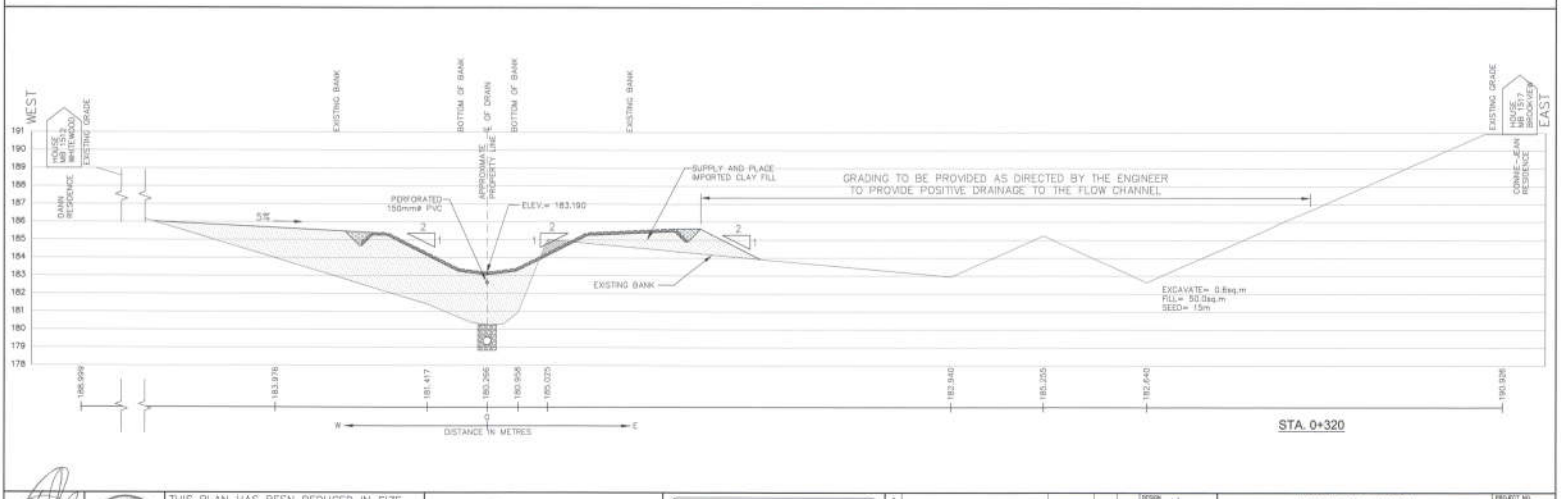
DESIGN	L.Z.
CHECKED	A.M.G.
DRAWN	A.A.K.
CHECKED	R.C.S.
DATE	JUNE 17, 2019
SCALE	Hor 1:100 Ver 1:100

ESSELTINE DRAIN

CROSS-SECTIONS
STA. 0+225 to STA. 0+250

PROJECT NO. 14-425
SHEET NO. 12
OF 47





THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE.

Kingsville ONTARIO

B.C. SPENCER ASSOCIATES INC.
Consulting Engineers

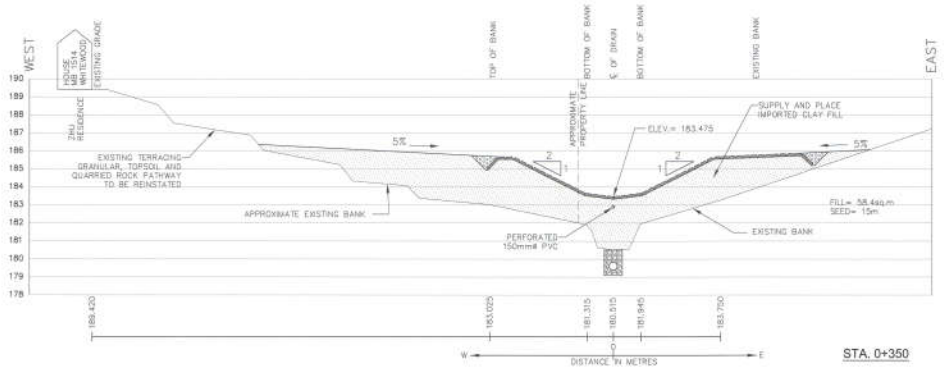
NO.	REVISION	DATE	BY	APP.
5.				
4.				
3.				
2.				
1.				

DESIGN L.Z.
CHECKED A.A.H.
DRAWN A.A.H.
CHECKED D.C.S.
DATE JUNE 17, 2016
SCALE 1H:1100 1V:1100

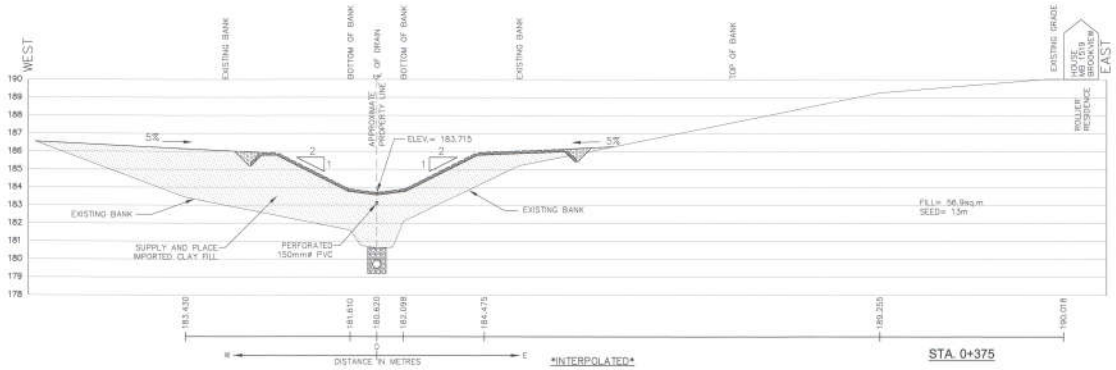
ESSELTINE DRAIN

CROSS-SECTIONS
STA. 0+300 to STA. 0+320

PROJECT NO. 14-425
SHEET NO. 13
OF 47



STA. 0+350



INTERPOLATED

STA. 0+375

THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

B.C. SPENCER ASSOCIATES INC.
Consulting Engineers

NO.	REVISION	DATE	BY	APP.
6.				
4.				
3.				
2.				
1.				

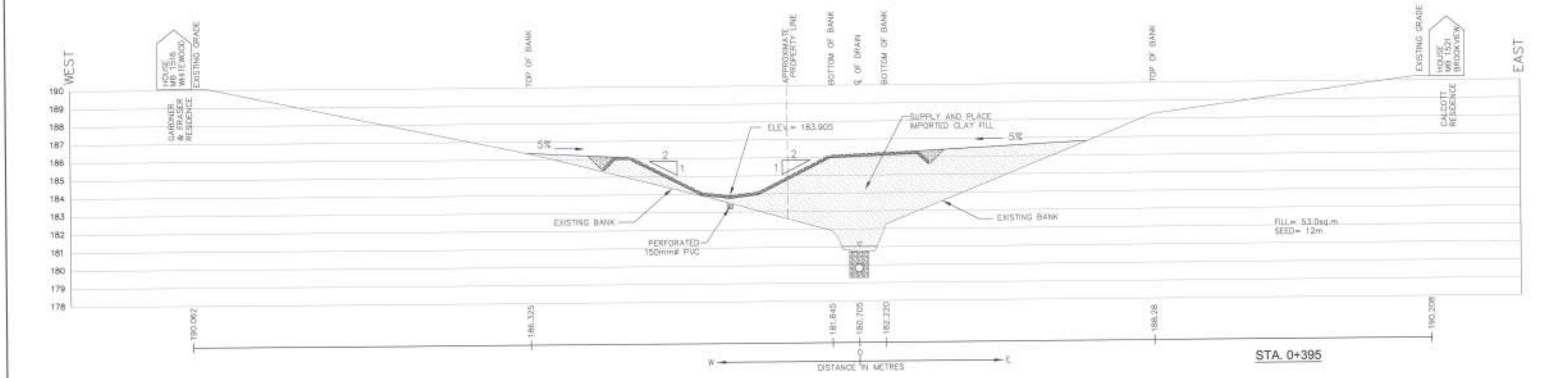
DESIGN	L.E.
CHECKED	A.M.G.
DRAWN	A.A.H.
CHECKED	R.E.S.
DATE	APRIL 17, 2018
SCALE	1:50 (H) 1:100 (V)

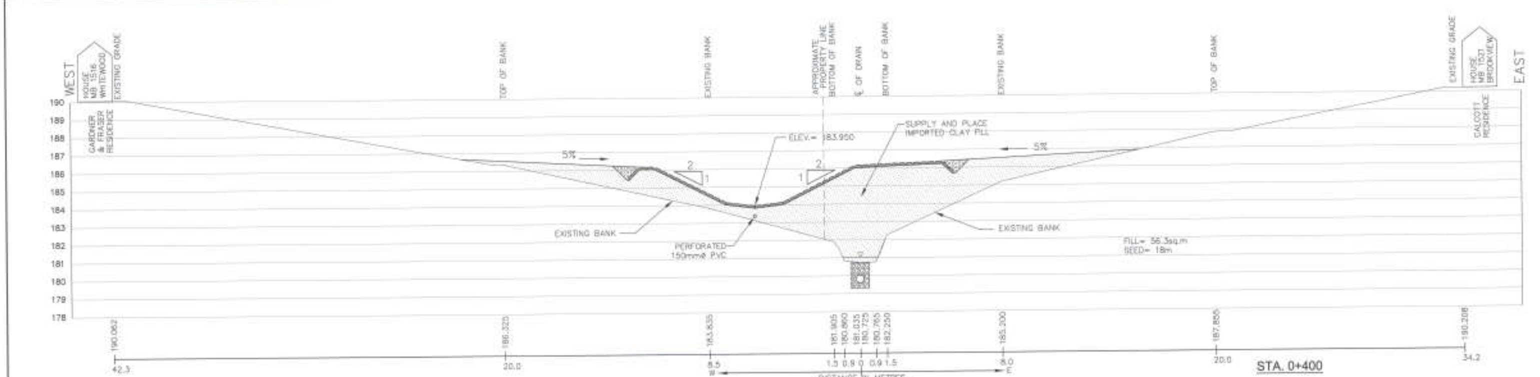
ESSELTINE DRAIN

CROSS-SECTIONS
STA. 0+350 to STA. 0+375

PROJECT NO. 14-425

SHEET NO. 14 OF 47





L. ZAVLITAGA

THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

RC SPENCER ASSOCIATES INC. Consulting Engineers

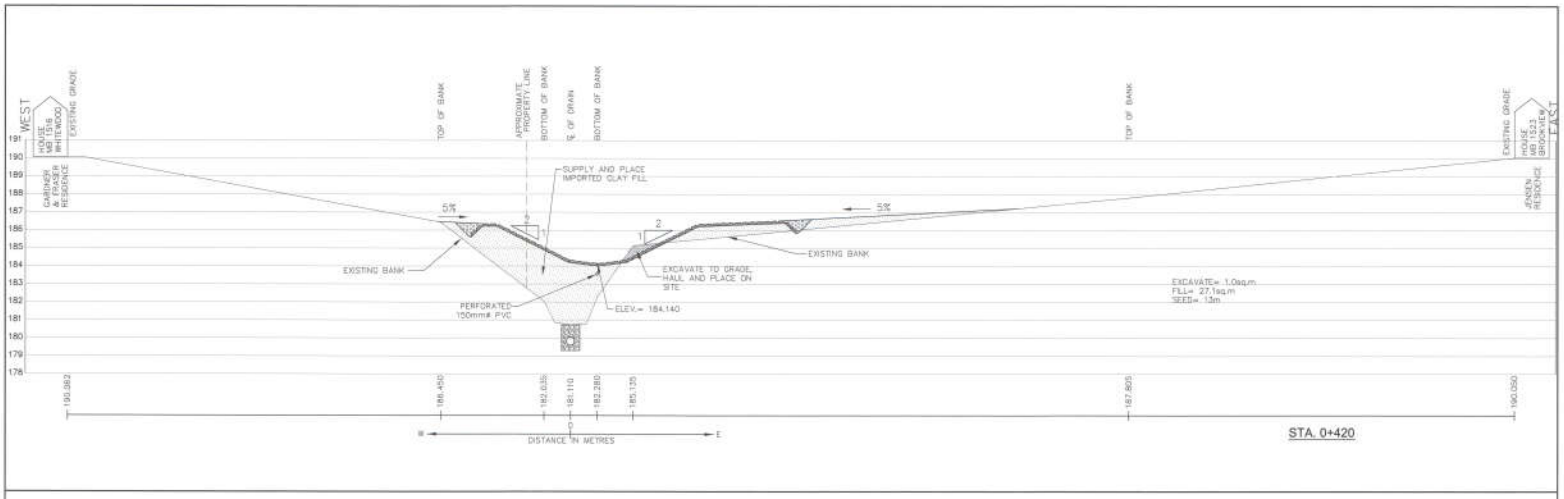
NO.	REVISION	DATE	BY	APP.
5.				
4.				
3.				
2.				
1.				

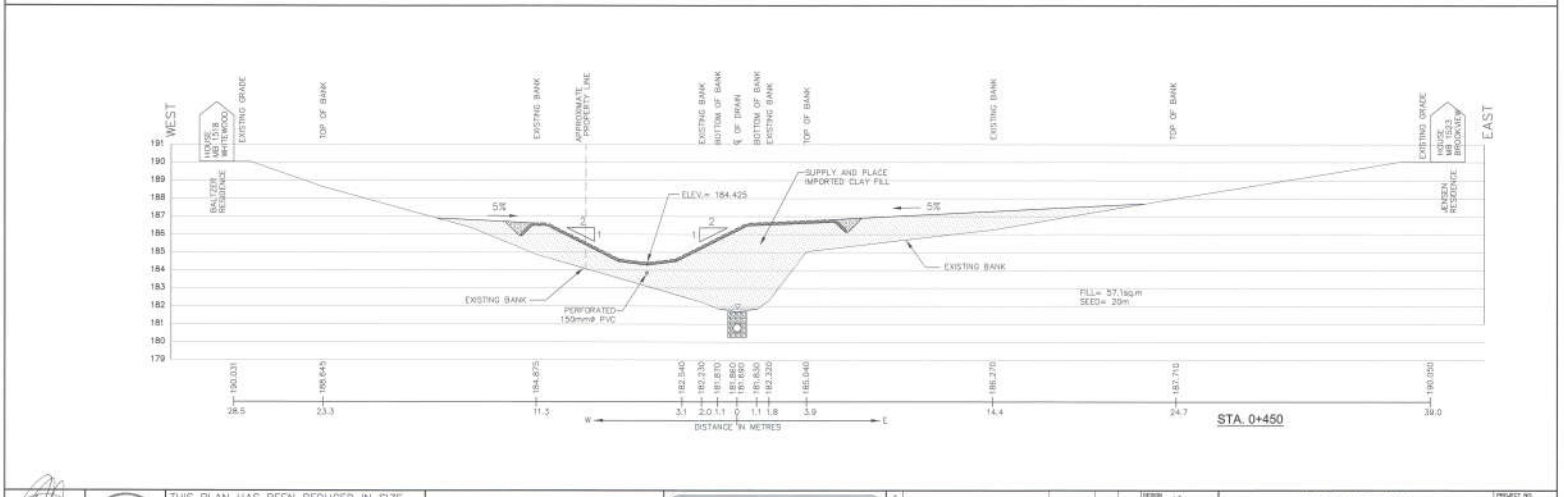
DESIGN L.Z.
CHECKED A.M.G.
DRAWN A.A.H.
CHECKED R.C.S.
DATE JUNE 17, 2016
SCALE H=1:100 V=1:100

ESSELTINE DRAIN

CROSS–SECTIONS
STA. 0+394 to STA. 0+400

PROJECT NO. 14–425
SHEET NO. 15
OF 47





THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE.

Kingsville ONTARIO

D.C. SPENCER ASSOCIATES Inc. Consulting Engineers

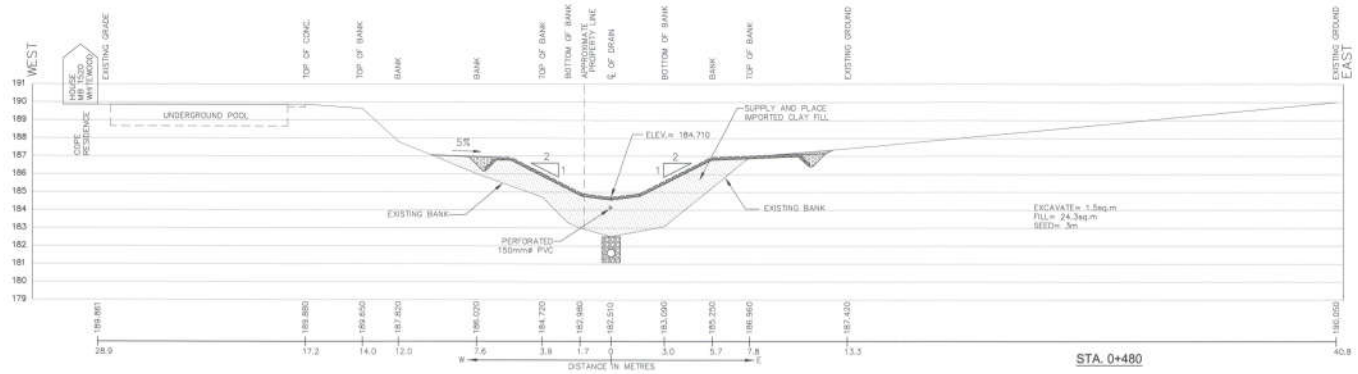
NO.	REVISION	DATE	BY	APR.
5.				
4.				
3.				
2.				
1.				

DESIGN L.E.
CHECKED A.M.G.
DRAWN A.A.H.
CHECKED R.S.S.
DATE JUNE 17, 2014
SCALE 1:1000 Vert.1:100

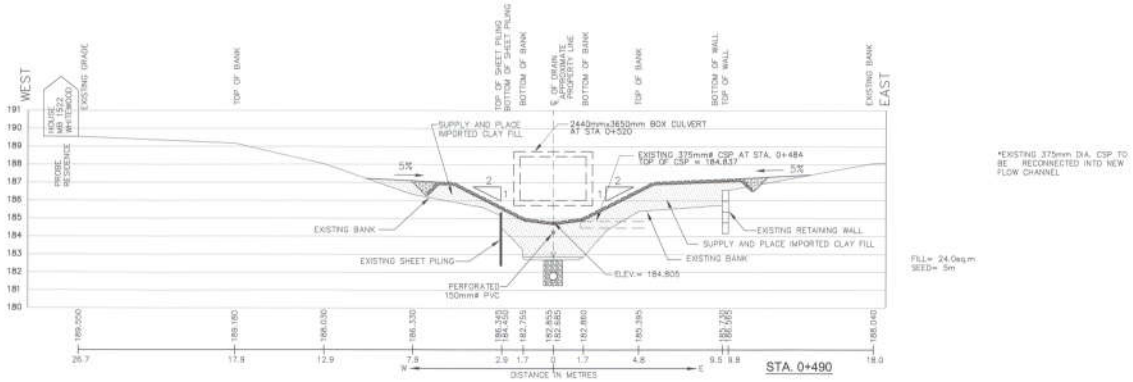
ESSELTINE DRAIN

CROSS–SECTIONS
STA. 0+420 to STA. 0+450

PROJECT NO. 14–425
SHEET NO. 16 OF 47



STA. 0+480



*EXISTING 375mm DIA. CSP TO BE RECONNECTED INTO NEW FLOW CHANNEL

STA. 0+490

THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

RC SPENCER ASSOCIATES INC. Consulting Engineers

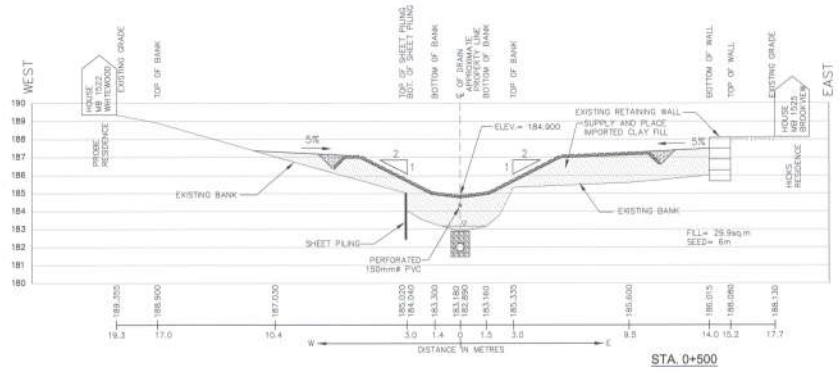
NO.	REVISION	DATE	BY	APP.
5.				
4.				
3.				
2.				
1.				

DESIGN L.J.
CHECKED A.M.E.
DRAWN A.A.H.
CHECKED R.D.S.
DATE JUNE 17, 2014
SCALE 1:100 H 1:100 V

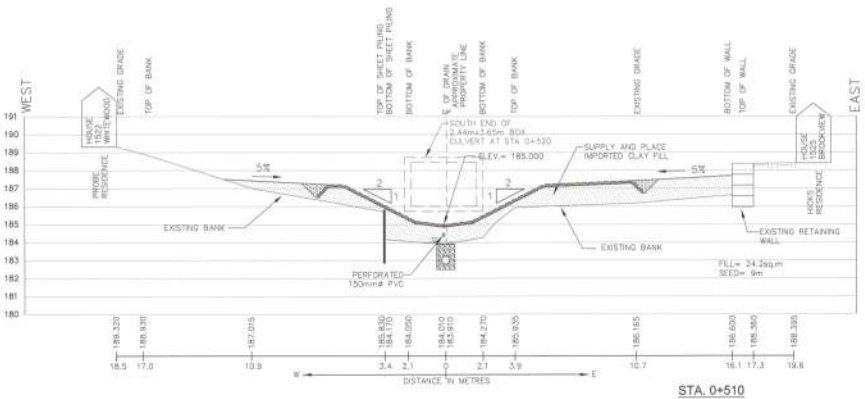
ESSELTINE DRAIN

CROSS-SECTIONS
STA. 0+475 to STA. 0+490

PROJECT NO. 14-425
SHEET NO. 17 OF 47



STA. 0+500



STA. 0+510

NOTES:

1. ABANDON STEEL SHEET PILE WALL (CUT TO BELOW CONCRETE MAT – DO NOT REMOVE)
2. REPLACE SEPTIC LATERALS:
   - EXCAVATE AND LOCATE LATERAL
   - REPLACE LATERALS
   - RESTORE YARD
3. TEMPORARY USE OF EXISTING CISTERN FOR PUMPING CONTENTS ON WEEKLY BASIS BY ENVIRONMENTAL CONTRACTOR
4. REMOVAL OF 4 LARGE TREES DUE TO BURYING TREE CROWN ROOTS.

THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE.

Kingsville ONTARIO

R.C. SPENCER ASSOCIATES INC. Consulting Engineers

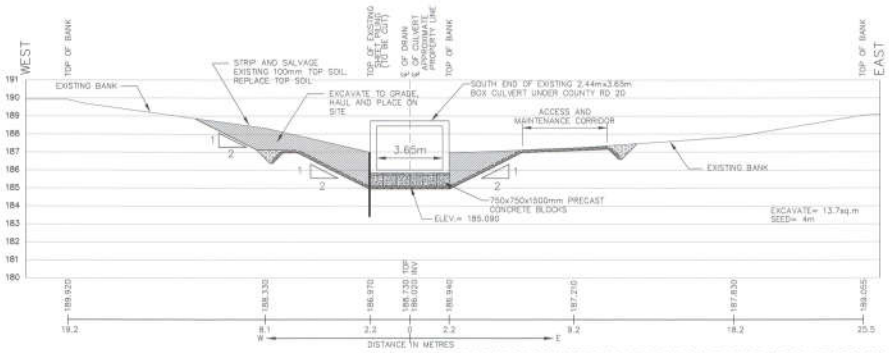
NO.	REVISION	DATE	BY	APP.
6				
4				
3				
2				
1				

DESIGN L.Z.
CHECKED A.M.G.
DRAWN A.A.K.
CHECKED R.C.S.
DATE JUNE 17, 2016
SCALE 1:1000 (H) 1:100 (V)

ESSELTINE DRAIN

CROSS-SECTIONS
STA. 0+500 to STA. 0+510

PROJECT NO. 14-425
SHEET NO. 18
OF 47

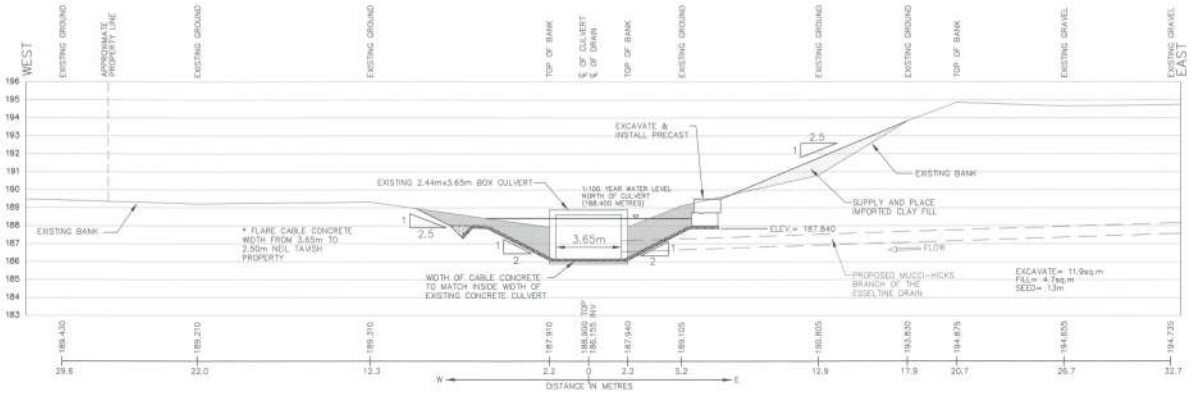


STA. 0+520 (SOUTH END OF CONCRETE CULVERT AT SOUTH SIDE OF COUNTY RD. 20)

NOTES:

1. ABANDON STEEL SHEET PILE WALL (CUT AND REMOVE TO BELOW CONCRETE MAT – DO NOT REMOVE LOWER PORTION)
2. STATIONS ACROSS COUNTY ROAD 20:
   - STA. 0+520 SOUTH END EXISTING BOX CULVERT
   - STA. 0+532 SOUTH EDGE OF PAVEMENT
   - STA. 0+536 CENTER LINE OF COUNTY ROAD 20 PAVEMENT
   - STA. 0+540 NORTH EDGE OF PAVEMENT COUNTY ROAD 20
   - STA. 0+542 PROPOSED MUCCI HICKS BRANCH

* OUTLET PROTECTION SEE DETAILS (PG 39)



STA. 0+551 (NORTH END OF EXISTING CONCRETE CULVER AT NORTH SIDE OF COUNTY RD. 20)

THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

B.C. SPENCER ASSOCIATES INC. Consulting Engineers

NO.	REVISION	DATE	BY	APP.
5				
4				
3				
2				
1				

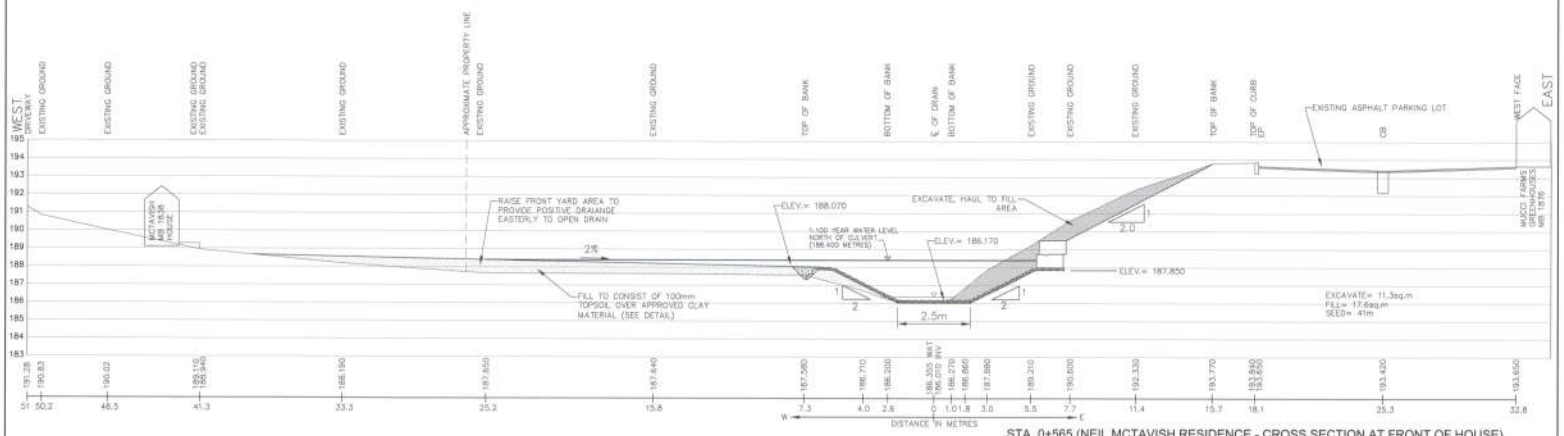
DESIGN L.Z. | CHECKED A.M.E. | DRAWN A.A.K. | CHECKED A.C.E. | DATE APR 17, 2018 | SCALE 1:1000 1:1,000

ESSELTINE DRAIN

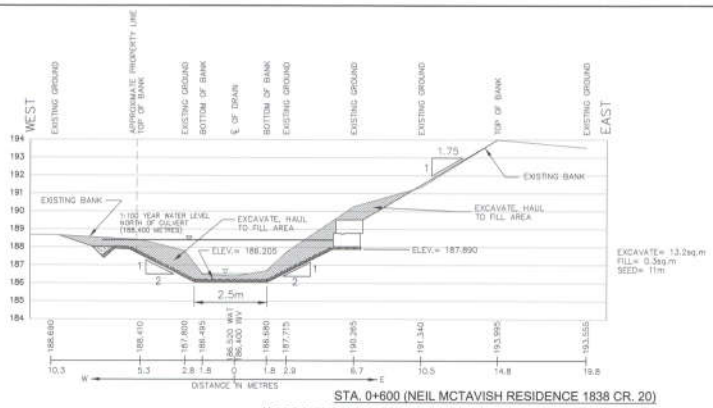
CROSS–SECTIONS
STA. 0+520 to STA. 0+551

PROJECT NO. 14–425

SHEET NO. 19 OF 47



STA. 0+565 (NEIL MCTAVISH RESIDENCE - CROSS SECTION AT FRONT OF HOUSE)
(APPROXIMATELY 10 METRES SOUTH OF SOUTH EAST CORNER)



STA. 0+600 (NEIL MCTAVISH RESIDENCE 1838 CR. 20)
(APPROXIMATELY 5 METRES NORTH OF NORTH EAST CORNER)

NOTES: RE 1838 CR 20 YARD RESTORATION

1. REMOVE AND SALVAGE AND STOCKPILE EXISTING TOPSOIL
2. HAUL AND PLACE APPROVED FILL FROM EXCAVATION AREAS
3. REPLACE STOCKPILED TOPSOIL
4. APPLY CANADA NO. 1 GRASS SEED
5. DETAIL FOR FILL AREA TO BE RAISED APPROXIMATELY 200mm TO 500mm:

THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

B.C. SPENCER ASSOCIATES INC.
Consulting Engineers

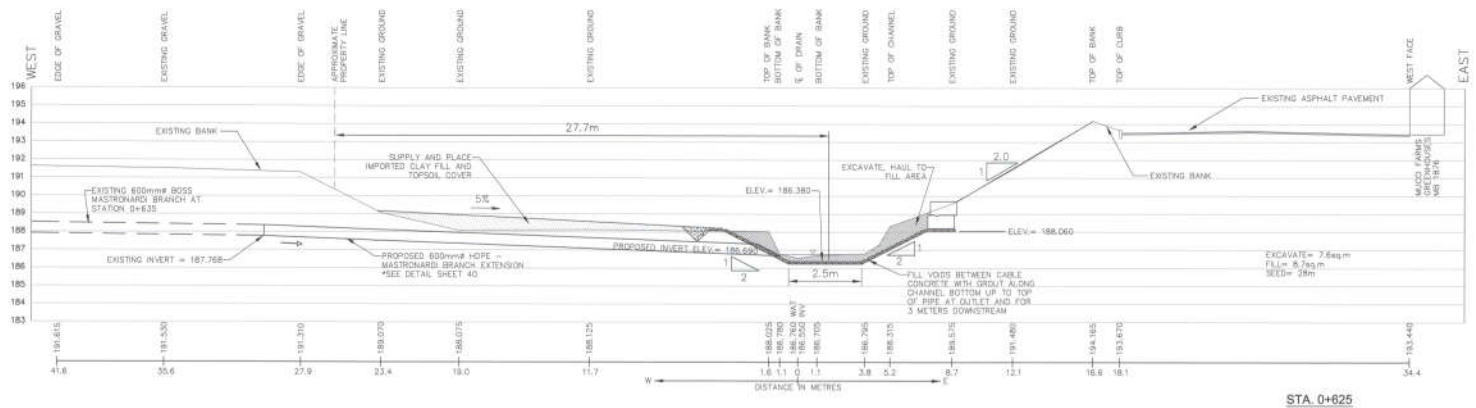
NO.	REVISION	DATE	BY	APP.
5.				
4.				
3.				
2.				
1.				

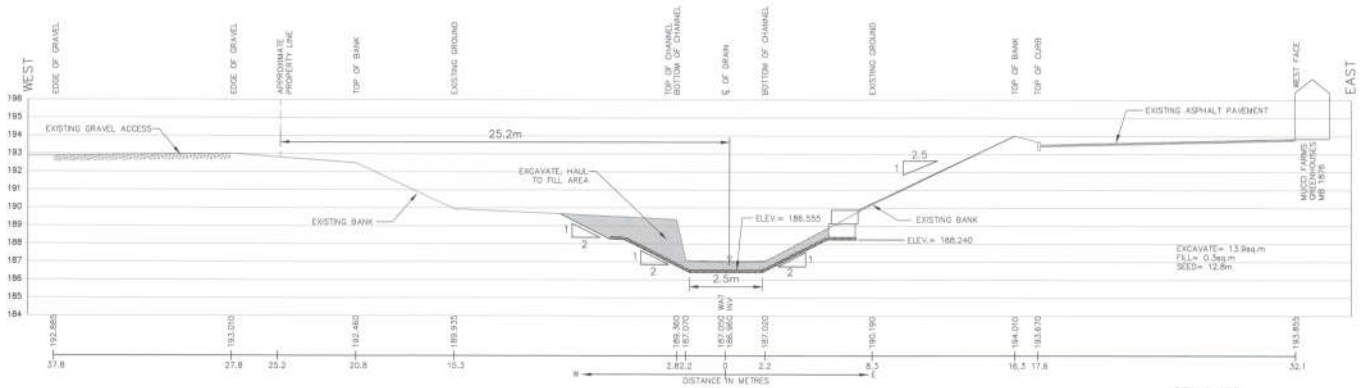
DESIGN L.Z.
CHECKED A.M.C.
DRAWN A.A.H.
CHECKED R.C.S.
DATE JUNE 17, 2015
SCALE 1:100 1:100

ESSELTINE DRAIN

CROSS–SECTIONS
STA. 0+565 to STA. 0+600

PROJECT NO. 14–425
SHEET NO. 20
OF 47





NOTES:

1. CONCRETE CABLE PLACED UP TO STATION 0+650. NORTHERLY PORTIONS OF DRAIN ARE CLAY CHANNELS

THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

B.C. SPENCER ASSOCIATES INC. Consulting Engineers

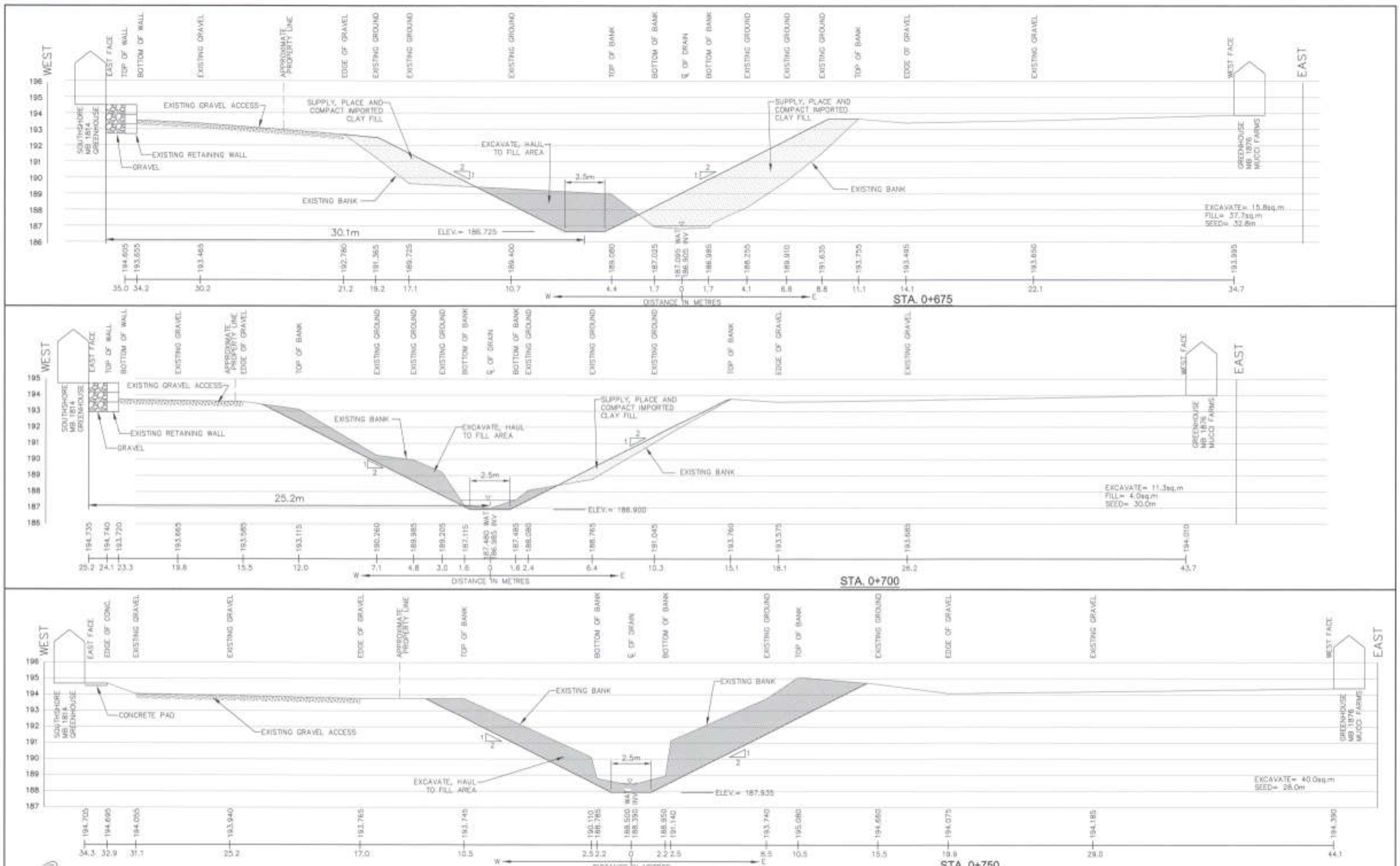
NO.	REVISION	DATE	BY	APP.
5.				
4.				
3.				
2.				
1.				

DESIGN L.E.
CHECKED A.M.E.
DRAWN A.A.H.
CHECKED R.D.S.
DATE JUNE 17, 2016
SCALE HORZ. 1:250 VERT. 1:100

ESSELTINE DRAIN

CROSS-SECTIONS
STA. 0+625 to STA. 0+650

PROJECT NO. 14-425
SHEET NO. 21
OF 47



THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

RC SPENCER ASSOCIATES INC. Consulting Engineers

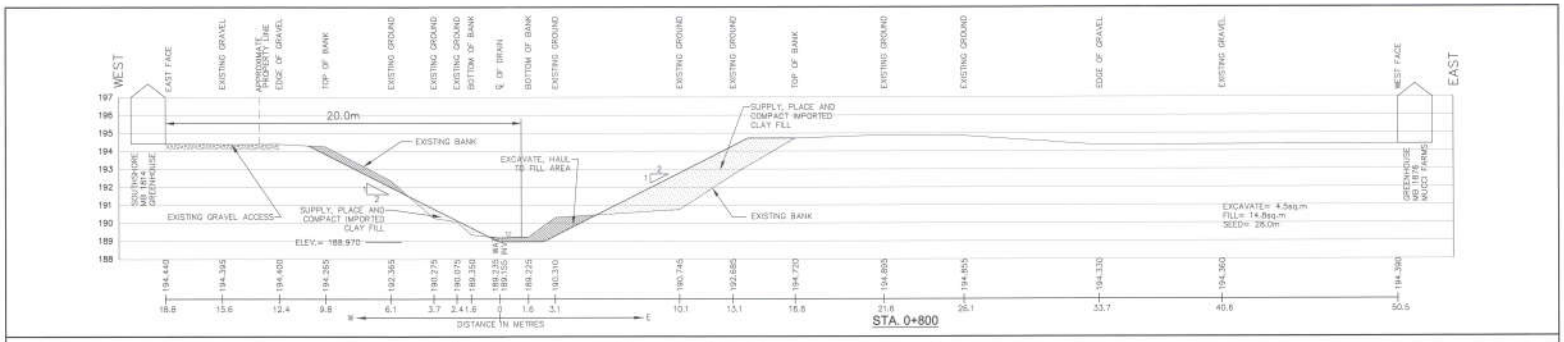
NO.	REVISION	DATE	BY	APP.
5.				
4.				
3.				
2.				
1.				

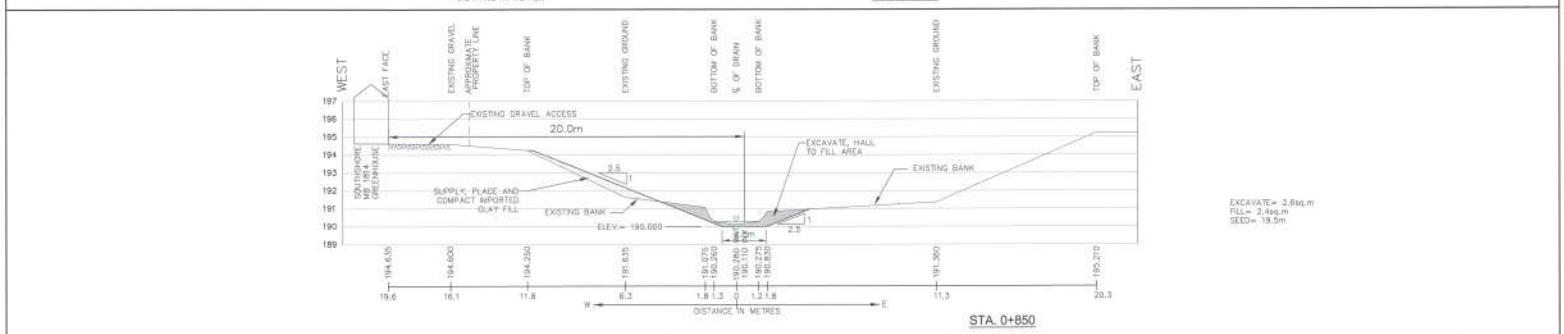
DESIGN	L.Z.
CHECKED	A.M.G.
DRAWN	S.A.K.
CHECKED	R.C.S.
DATE	JUNE 17, 2016
SCALE	H=1:100 V=1:100

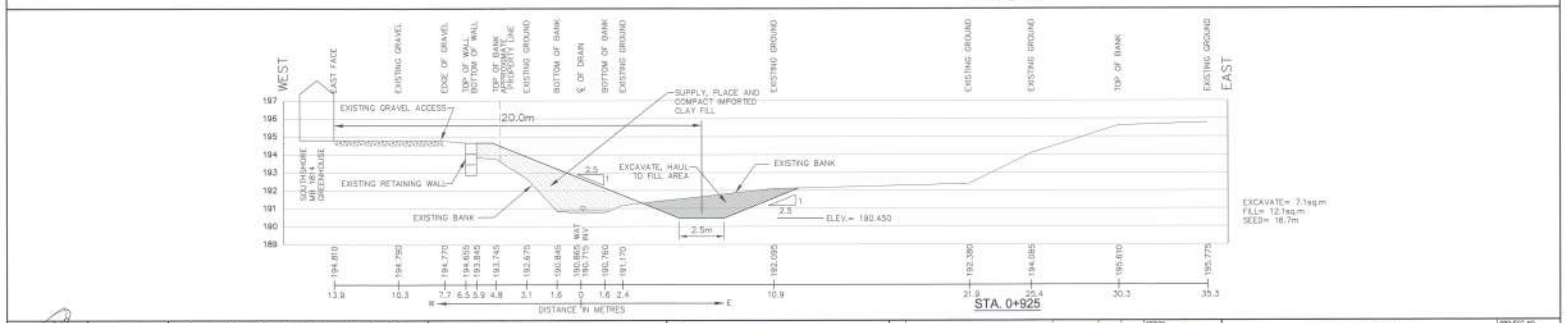
ESSELTINE DRAIN

CROSS-SECTION
STA. 0+675 to STA. 0+750

PROJECT NO. 14-425
SHEET NO. 22
OF 47







THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

D.C. SPENCER ASSOCIATES INC. Consulting Engineers

NO.	REVISION	DATE	BY	APP.
5.				
4.				
3.				
2.				
1.				

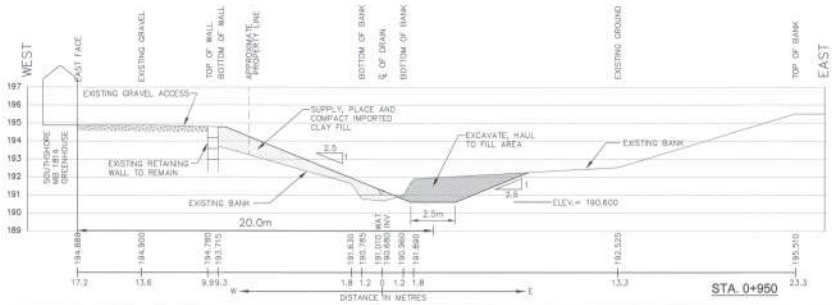
DESIGN	L.C.
CHECKED	A.M.S.
DRAWN	A.A.R.
CHECKED	K.D.S.
DATE	JUNE 11, 2014
SCALE	H=1:100 V=1:100

ESSELTINE DRAIN

CROSS-SECTIONS
STA. 0+800 to STA. 0+925

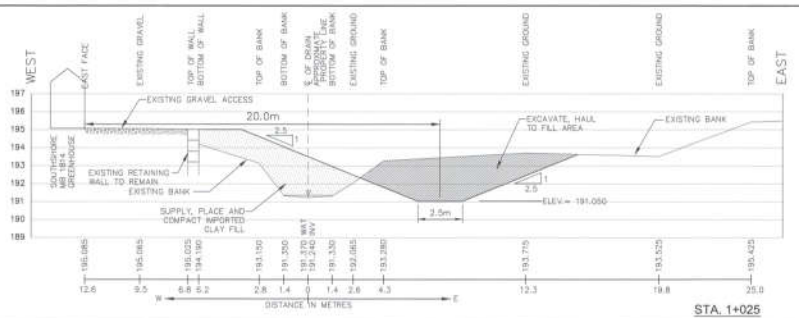
PROJECT NO. 14-425

SHEET NO. 23 OF 47



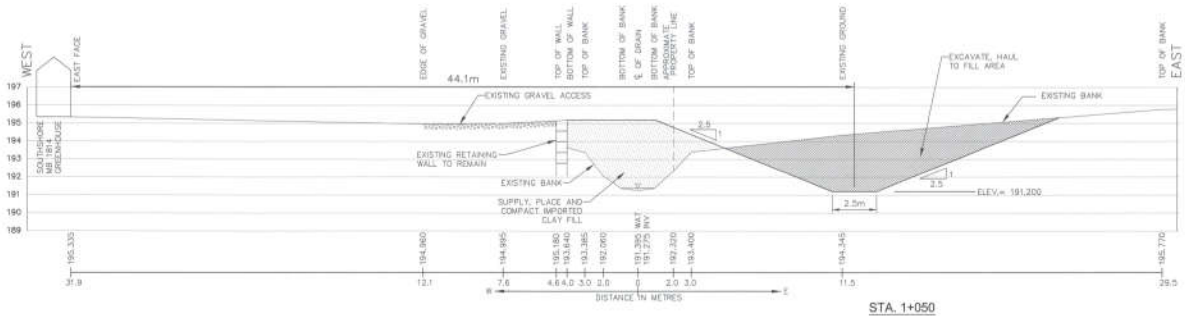
EXCAVATE= 6.6sq.m
FILL= 7.2sq.m
SEED= 17.0m

STA. 0+950



EXCAVATE= 18.9sq.m
FILL= 14.6sq.m
SEED= 17.5m

STA. 1+025



EXCAVATE= 34.2sq.m
FILL= 21.0sq.m
SEED= 26.7m

STA. 1+050

THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

D.G. SPENCER ASSOCIATES INC.
Consulting Engineers

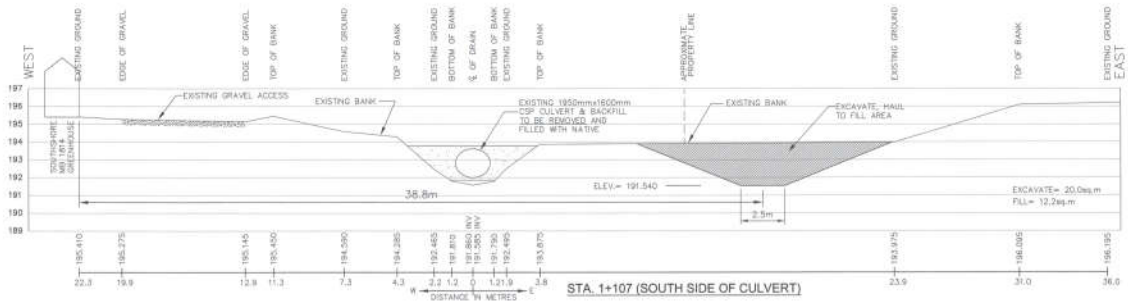
NO.	REVISION	DATE	BY	APP.
5.				
4.				
3.				
2.				
1.				

DESIGN L.Z.
CHECKED A.M.G.
DRAWN A.A.R.
CHECKED R.C.S.
DATE JUNE 17, 2014
SCALE HORIZ. 1:250 VERT. 1:100

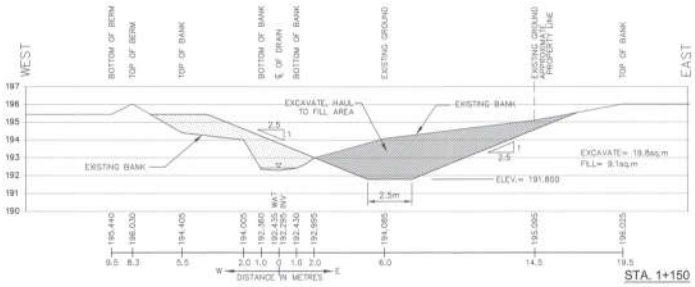
ESSELTINE DRAIN

CROSS-SECTIONS
STA. 0+950 to STA. 1+050

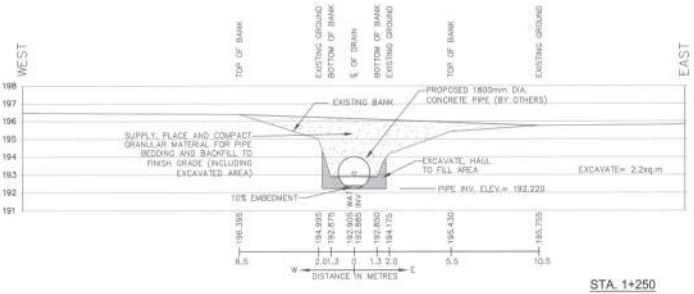
PROJECT NO. 14-425
SHEET NO. 24
OF 47



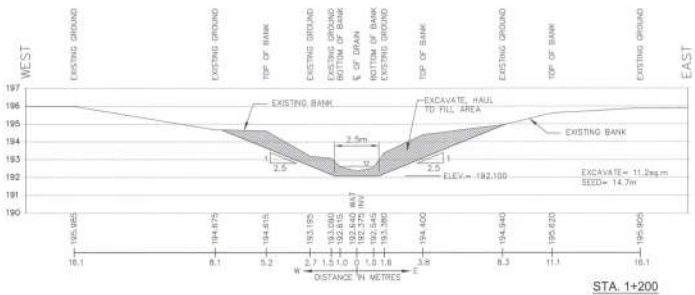
STA. 1+107 (SOUTH SIDE OF CULVERT)



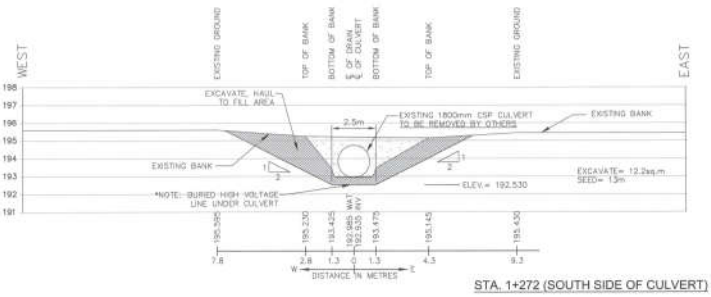
STA. 1+150



STA. 1+250



STA. 1+200



STA. 1+272 (SOUTH SIDE OF CULVERT)

THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

BC SPENCER ASSOCIATES INC. Consulting Engineers

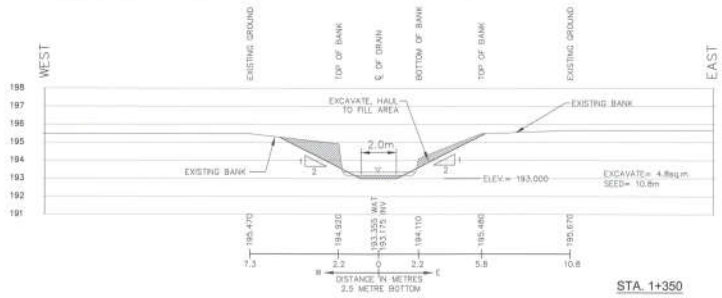
NO.	REVISION	DATE	BY	APP.
5.				
4.				
3.				
2.				
1.				

DESIGN	L.J.
CHECKED	A.W.G.
DRAWN	A.A.K.
CHECKED	R.G.B.
DATE	APR. 17, 2014
SCALE	H=1:100 V=1:100

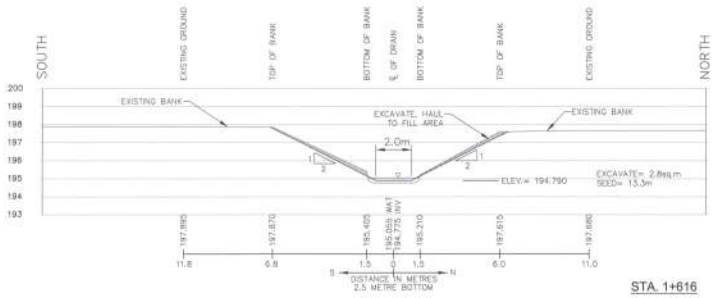
ESSELTINE DRAIN

CROSS-SECTIONS
STA. 1+107 to STA. 1+272

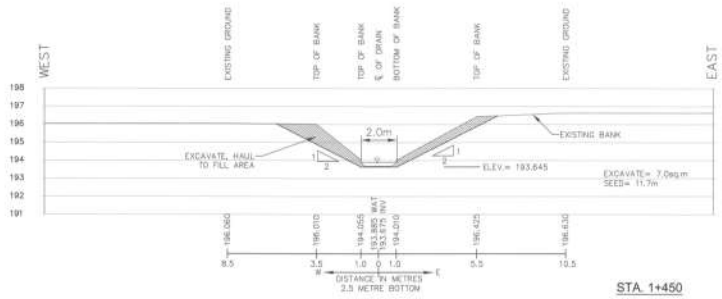
PROJECT NO. 14-425
SHEET NO. 25
OF 47



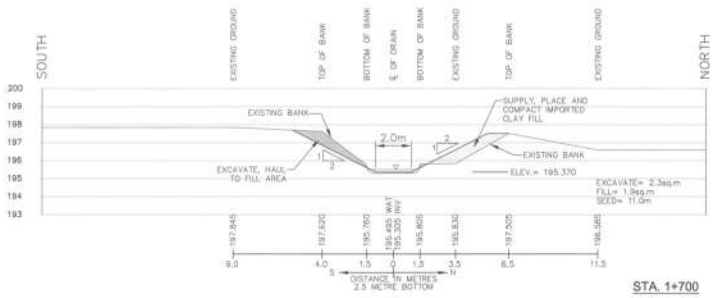
STA. 1+350



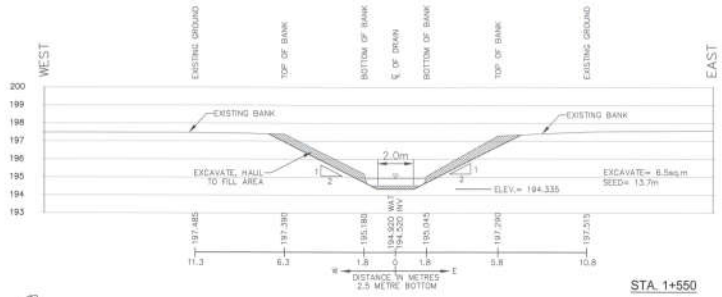
STA. 1+616



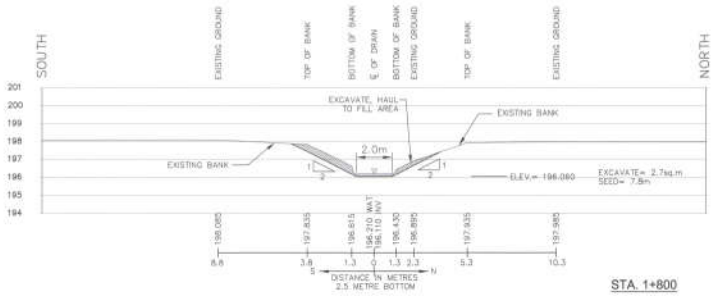
STA. 1+450



STA. 1+700



STA. 1+550



STA. 1+800

L. ZIMLENGA

THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

R.C. SPENCER ASSOCIATES LTD.
Consulting Engineers

NO.	REVISION	DATE	BY	APP.
5.				
4.				
3.				
2.				
1.				

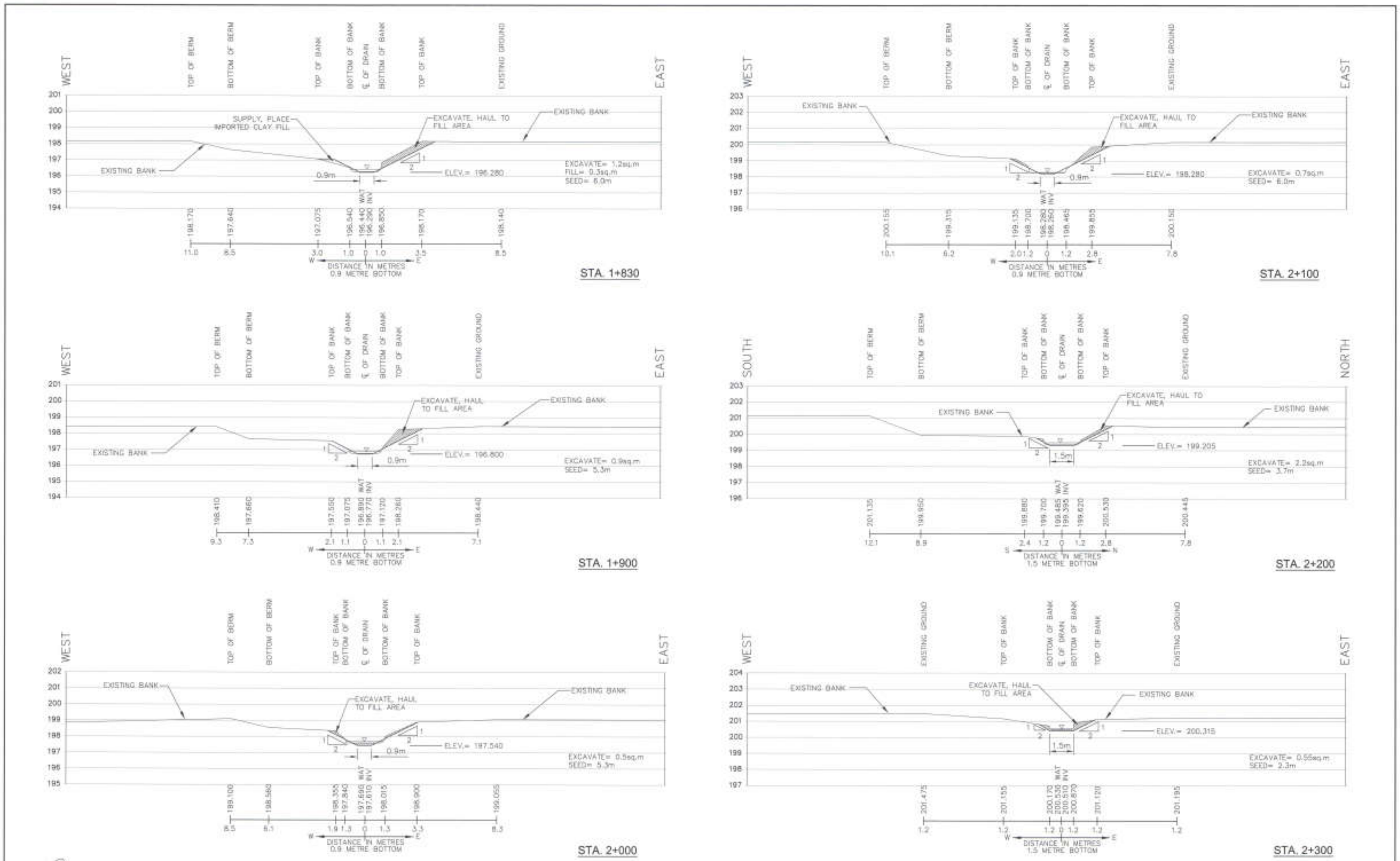
DESIGN	L.Z.
CHECKED	A.M.G.
DRAWN	A.A.K.
CHECKED	R.C.S.
DATE	JUNE 17, 2016
SCALE	1:100 / 1:100

ESSELTINE DRAIN

CROSS-SECTIONS
STA. 1+350 to STA. 1+800

PROJECT NO. 14-425

SHEET NO. 26 OF 47



THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

RC SPENCER ASSOCIATES INC. Consulting Engineers

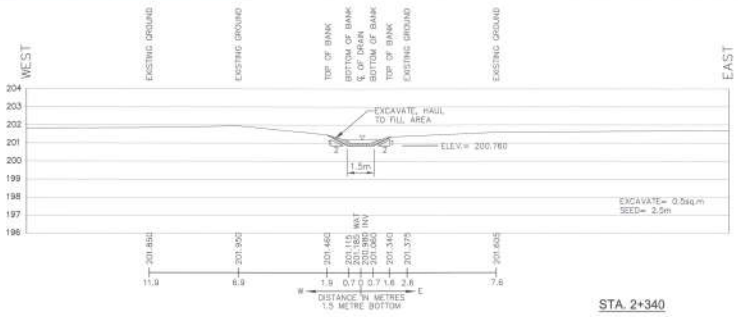
NO.	REVISION	DATE	BY	APP.
5.				
4.				
3.				
2.				
1.				

DESIGN L.Z.
CHECKED A.M.S.
DRAWN A.A.H.
CHECKED R.D.S.
DATE JUNE 17, 2016

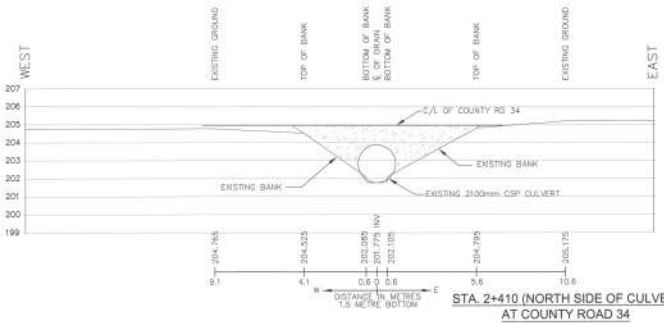
ESSELTINE DRAIN

CROSS-SECTIONS
STA. 1+830 to STA. 2+300

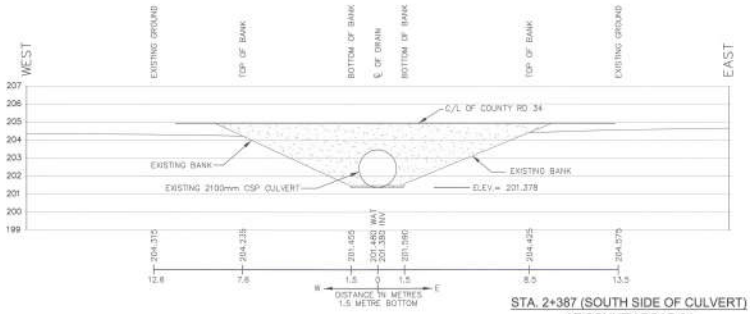
PROJECT NO. 14-425
SHEET NO. 27
OF 47



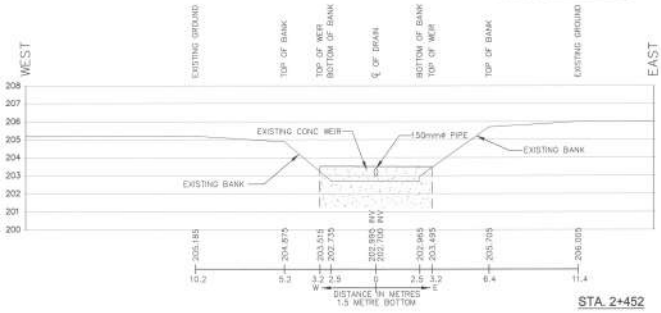
STA. 2+340



STA. 2+410 (NORTH SIDE OF CULVERT)
AT COUNTY ROAD 34



STA. 2+387 (SOUTH SIDE OF CULVERT)
AT COUNTY ROAD 34



STA. 2+452

THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

RC SPENCER ASSOCIATES INC.
Consulting Engineers

NO.	REVISION	DATE	BY	APP.
5.				
4.				
3.				
2.				
1.				

DESIGN L.J.
CHECKED A.M.S.
DRAWN A.A.H.
CHECKED K.G.S.
DATE JUNE 17, 2016
SCALE HOR. 1:100 VER. 1:10

ESSELTINE DRAIN

CROSS-SECTIONS
STA. 2+340 to STA. 2+452

PROJECT NO. 14-425
SHEET NO. 28
OF 47

THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

R.C. SPENCER ASSOCIATES INC.
Consulting Engineers

NO.	REVISION	DATE	BY	APP
5				
4				
3				
2				
1				

DESIGN L.Z.
CHECKED A.M.E.
DRAWN A.A.H.
CHECKED K.C.S.
DATE JUNE 11, 2014
SCALE 1:750

ESSELTINE DRAIN

AERIAL PLAN
EXISTING CONDITIONS
STA. 0+000 to STA. 0+750

PROJECT NO. 14--425
SHEET NO. 29 OF 47

THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

M.C. SPENCER ASSOCIATES INC.
Consulting Engineers

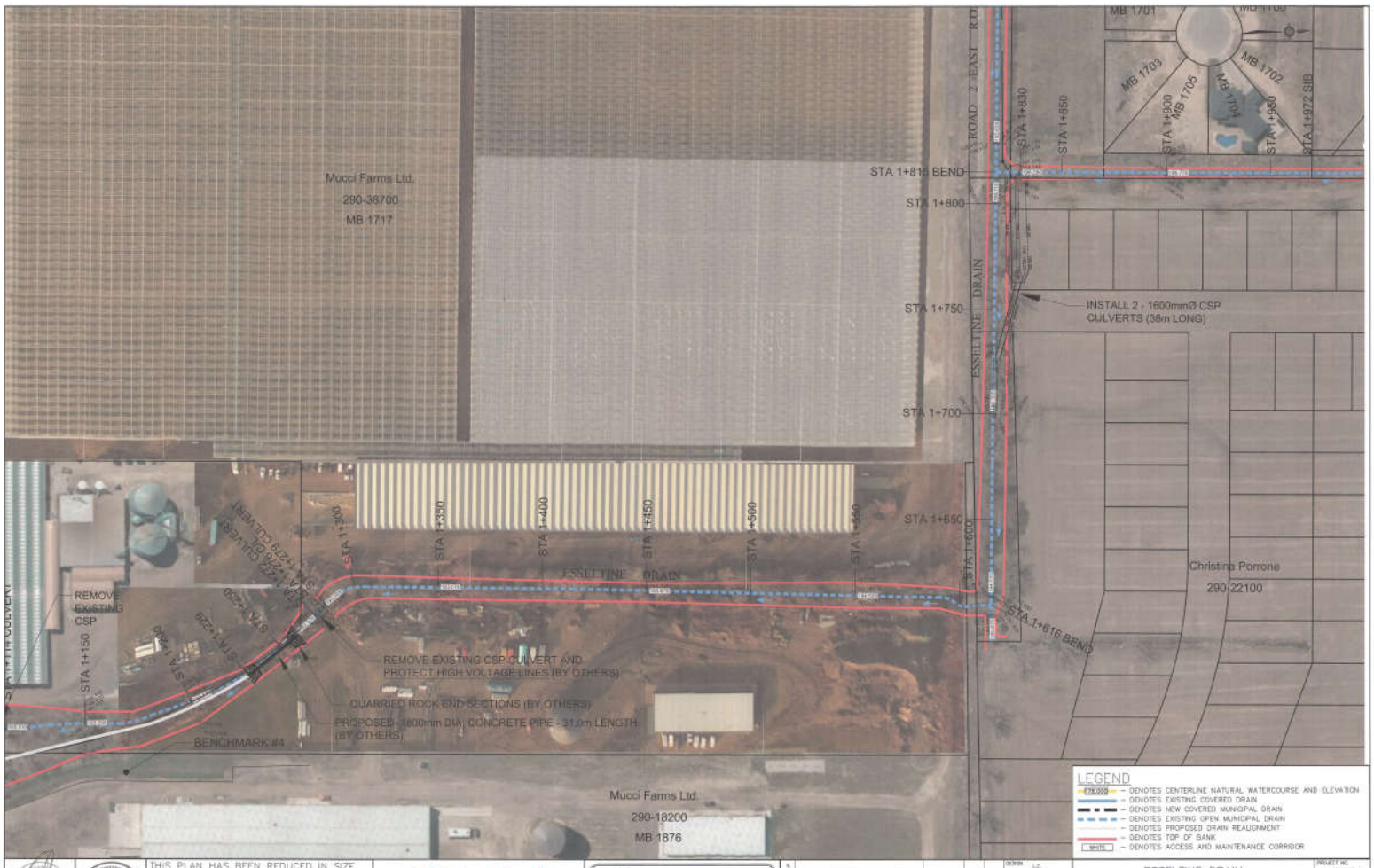
NO.	REVISION	DATE	BY	APP.
4.				
3.				
2.				
1.				

DESIGN L.Z.
CHECKED A.M.D.
DRAWN A.A.K.
CHECKED R.C.S.
DATE JUNE 17, 2016
SCALE 1:750

ESSELTINE DRAIN

AERIAL PLAN
EXISTING CONDITIONS
STA. 0+520 to STA. 1+150

PROJECT NO. 14-425
SHEET NO. 30
OF 47



THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

BC SPENCER ASSOCIATES INC
Consulting Engineers

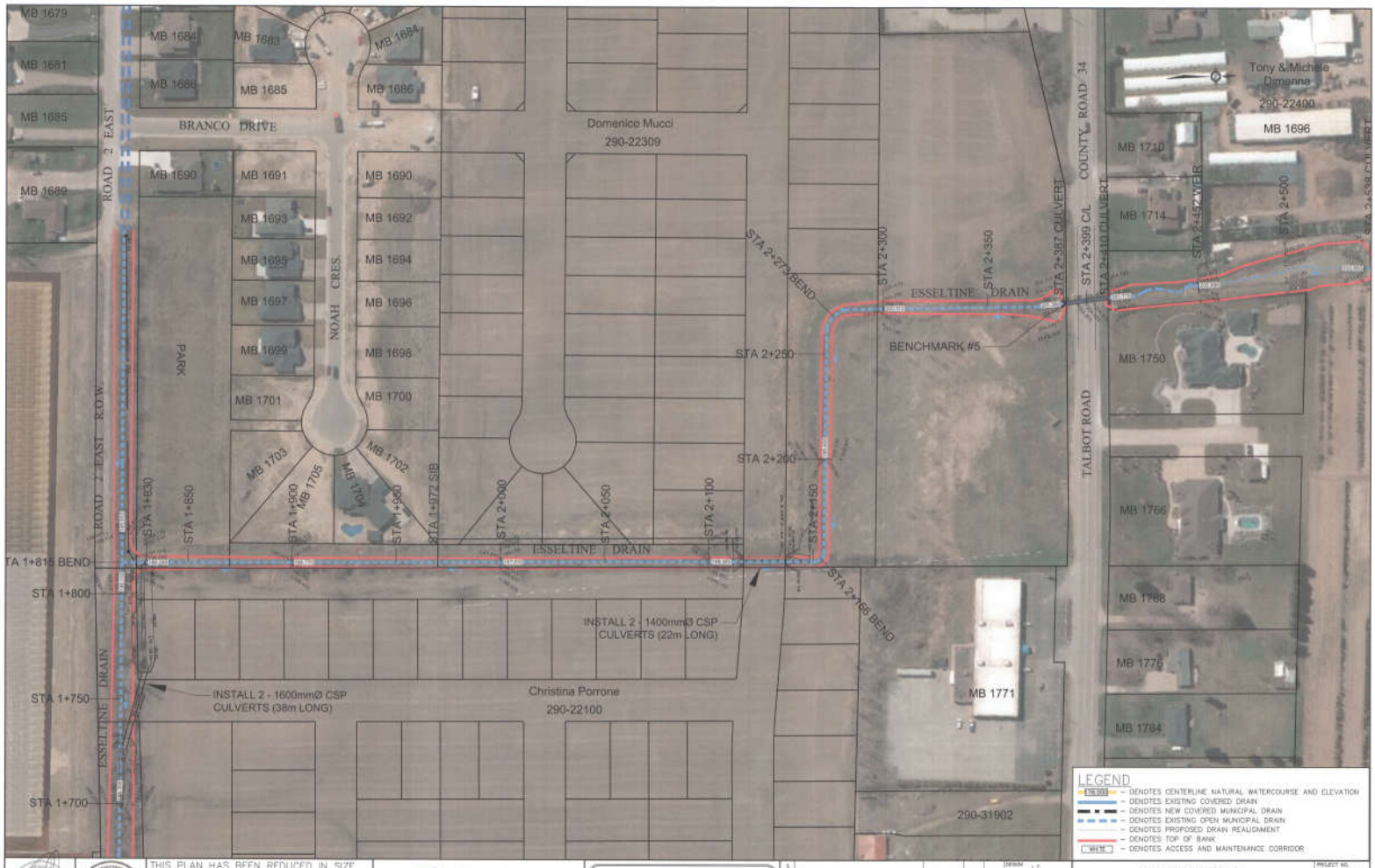
NO.	REVISION	DATE	BY	APP.
5.				
4.				
3.				
2.				
1.				

DESIGN L.T.
CHECKED A.M.S.
DRAWN A.A.H.
CHECKED K.C.S.
DATE JUNE 17, 2016
SCALE 1:750

ESSELTINE DRAIN

AERIAL PLAN
EXISTING CONDITIONS
STA. 1+100 to STA. 1+900

PROJECT NO. 14-425
SHEET NO. 31 of 47



THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

BC SPENCER ASSOCIATES INC.
Consulting Engineers

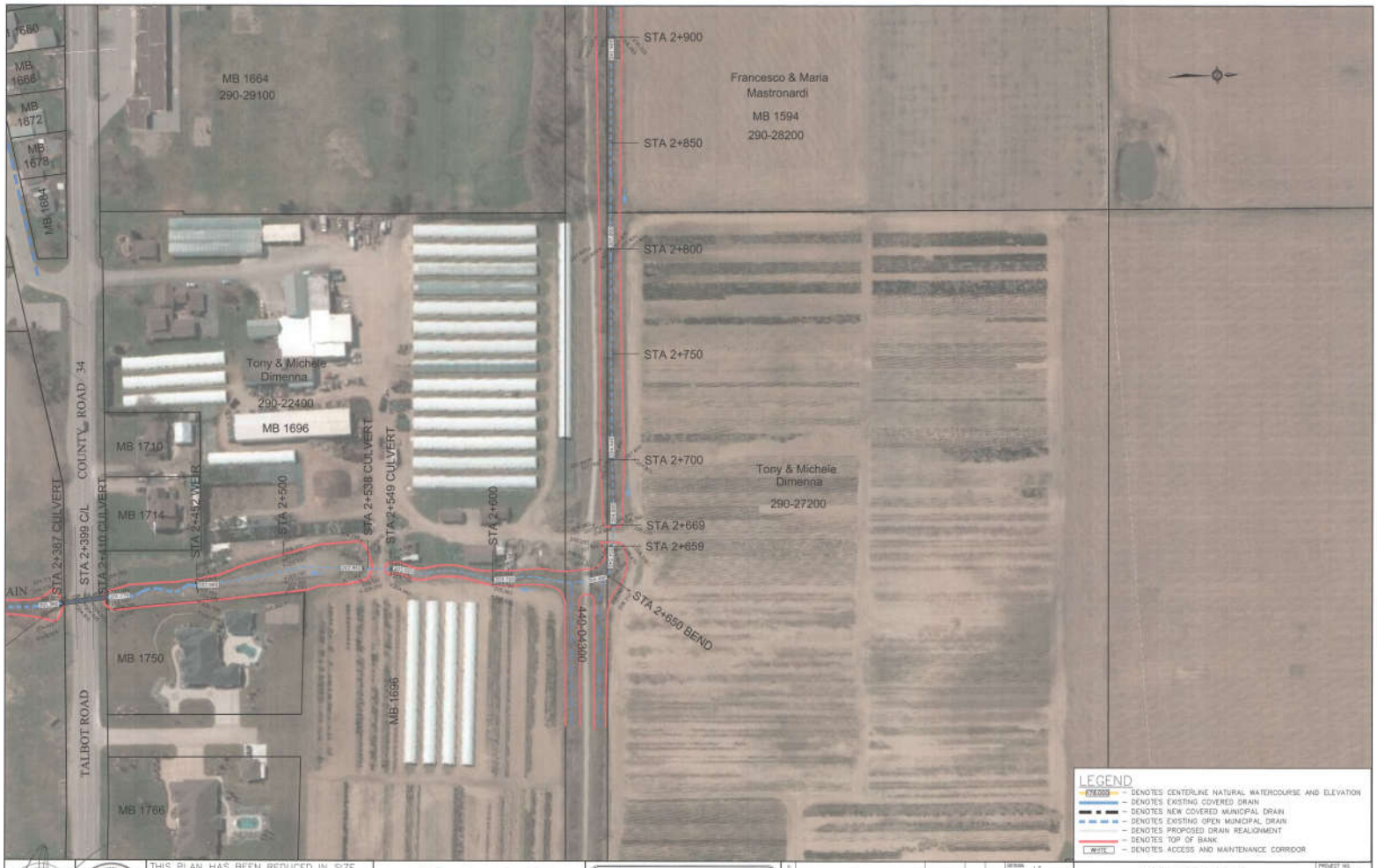
NO.	REVISION	DATE	BY	APP
5				
4				
3				
2				
1				

DESIGN	L.E.
CHECKED	K.M.G.
DRAWN	A.A.H.
CHECKED	R.E.S.
DATE	JUNE 17, 2016
SCALE	1:750

ESSELTINE DRAIN

AERIAL PLAN
EXISTING CONDITIONS
STA. 1+900 to STA. 2+452

PROJECT NO. 14-425
SHEET NO. 32 OF 47



THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

M. SPENCER ASSOCIATES Inc.
Consulting Engineers

NO.	REVISION	DATE	BY	APP
5.				
4.				
3.				
2.				
1.				

DESIGN L.E.
CHECKED A.M.S.
DRAWN A.A.H.
CHECKED K.C.S.
DATE JUNE 17, 2016
SCALE 1:750

ESSELTINE DRAIN

AERIAL PLAN
DRAIN CONDITION SURVEY
STA. 2+452 to STA. 2+900

PROJECT NO. 14-425
SHEET NO. 33 OF 47

THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

RC SPENCER ASSOCIATES INC.
Consulting Engineers

NO.	REVISION	DATE	BY	APP.
5.				
4.				
3.				
2.				
1.				

DESIGN L.Z.
CHECKED A.M.R.
DRAWN A.A.R.
CHECKED R.C.S.
DATE JUNE 17, 2016
SCALE 1:750

ESSELTINE DRAIN

AERIAL PLAN
DRAIN CONDITION SURVEY
STA. 2+900 to STA. 3+350

PROJECT NO. 14-425
SHEET NO. 34 OF 47

THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

RC SPENCER ASSOCIATES INC.
Consulting Engineers

NO.	REVISION	DATE	BY	APP.
5.				
4.				
3.				
2.				
1.				

DESIGN L.C.
CHECKED A.M.D.
DRAWN A.A.R.
CHECKED R.C.S.
DATE JUNE 11, 2014
SCALE 1:750

ESSELTINE DRAIN

AERIAL PLAN
DRAIN CONDITION SURVEY
STA. 3+350 to STA. 4+000

PROJECT NO. 14-425
SHEET NO. 35
OF 47

THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

B.C. SPENCER ASSOCIATES INC.
Consulting Engineers

NO.	REVISION	DATE	BY	APP
4				
3				
2				
1				

DESIGN	L.C.
CHECKED	A.M.G.
DRAWN	A.A.H.
CHECKED	S.C.S.
DATE	JUNE 17, 2016
SCALE	1:750

ESSELTINE DRAIN

AERIAL PLAN
DRAIN CONDITION SURVEY
STA. 4+000 to STA. 4+600

PROJECT NO. 14-425
SHEET NO. 36
OF 47

THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

R.C. SPENCER ASSOCIATES INC.
Consulting Engineers

NO.	REVISION	DATE	BY	APP.
6				
4				
3				
2				
1				

DESIGN L.Z.
CHECKED A.M.S.
DRAWN A.A.H.
CHECKED K.C.S.
DATE JUNE 17, 2015
SCALE 1:750

ESSELTINE DRAIN

AERIAL PLAN
DRAIN CONDITION SURVEY
STA. 4+600 to STA. 5+047

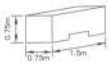
PROJECT NO. 14-425
SHEET NO. 37
OF 47

NOTES

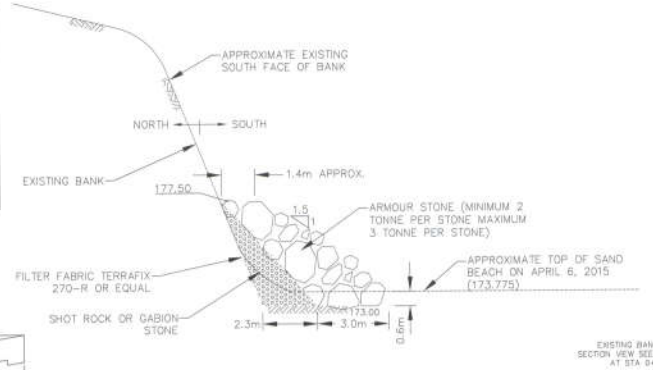
1. BLOCKS TO BE 750x750x1500mm PRECAST CONCRETE BLOCKS BY UNDERGROUND SPECIALTIES, CHATHAM-KENT READY MIX OR APPROVED EQUAL. SHOP DRAWINGS TO BE PROVIDED.
2. APPROXIMATE NUMBER OF BLOCKS IS 385.
3. 600mmø WATER CONTROL PIPE TO REQUIRE MODIFICATION TO SURROUNDING BLOCKS. FILL VOIDS WITH NON-SHRINK GROUT.
4. SUITABLE CLAY ELEVATION FOR PLACING PRECAST BLOCKS AND ARMOUR ROCK TO BE DETERMINED PRIOR TO CONSTRUCTION.
5. ALL CONCRETE BLOCKS TO BE 25MPa AIR ENTRAINED.
6. BLOCKS MUST BE INTERLOCKING.

PRECAST WEDGE BLOCK DETAIL
SCALE = 1:50

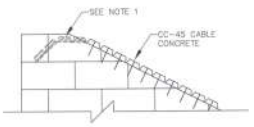
PRECAST BLOCK DETAILS
SCALE = 1:50



MODIFIED BLOCK
SCALE = 1:50

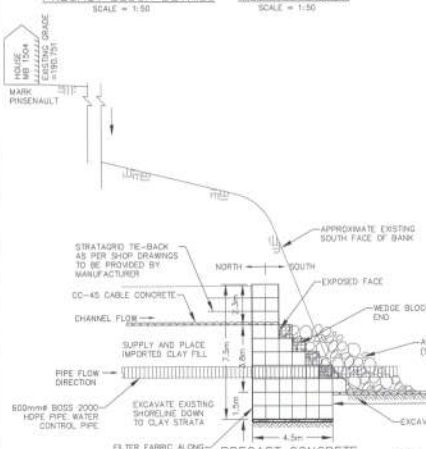


SIDE VIEW OF ARMOUR STONE DETAIL
SCALE = 1:75



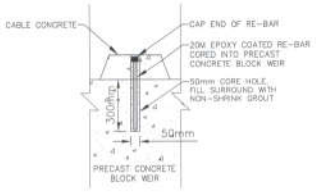
1. END BLOCKS OF CABLE CONCRETE TO BE REMOVED FROM FACE TO BACK OF CONCRETE WEIR.
2. CONNECT CABLE CONCRETE TO TOP OF WEIR USING 20M BAR DRILLED 300mm INTO CONCRETE BLOCKS. FILL SURROUND WITH NON-SHRINK GROUT (SEE DETAIL THIS SHEET).
3. MISCELLANEOUS VOIDS TO BE FILLED WITH CONCRETE.

FASTENING CABLE CONCRETE MAT TO PRECAST BLOCKS DETAIL
SCALE = 1:50



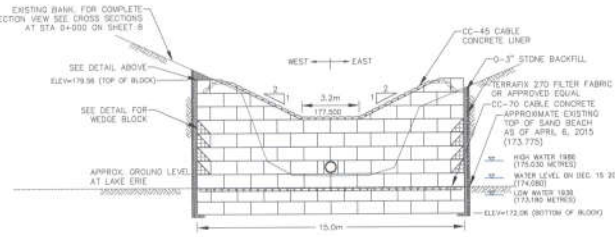
PRECAST CONCRETE BLOCK STEP WEIR SIDE VIEW

NOTE:
750x750x1500mm PRECAST CONCRETE BLOCKS FOR OUTLET WEIR MUST BE FOUNDED ON CLAY STRATA.

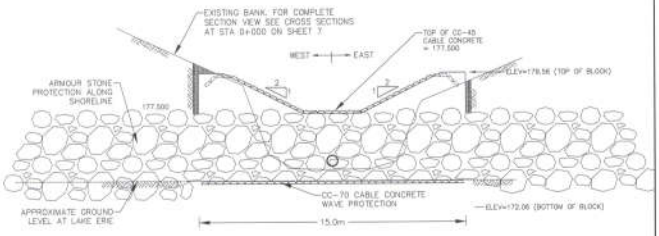


RE-BAR CORE DETAIL
SCALE = 1:10

HIGH WATER 1986 (175.030 METRES)
WATER LEVEL ON DEC. 15 2014 (174.080)
LOW WATER 1936 (173.180 METRES)



FRONT VIEW OF PRECAST BLOCK WEIR



FRONT VIEW OF ARMOUR ROCK

WEIR OUTLET DETAIL
SCALE = 1:100

THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

BC SPENCER ASSOCIATES INC. Consulting Engineers
Professional Engineers Ontario

NO	REVISION	DATE	BY	APP
5				
4				
3				
2				
1				

DESIGN	L.S.
CHECKED	A.M.S.
DRAWN	A.A.H.
CHECKED	R.C.S.
DATE	JUNE 11, 2015
SCALE	AS SHOWN

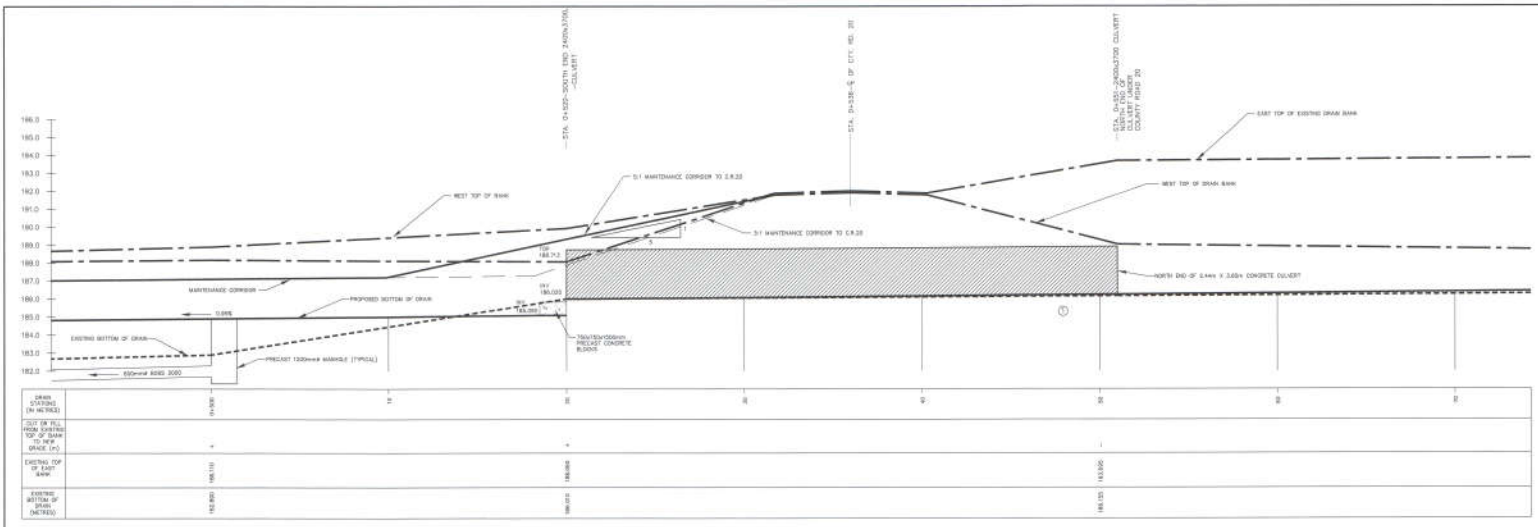
ESSELTINE DRAIN

OUTLET WEIR DETAIL AND CROSS-SECTION

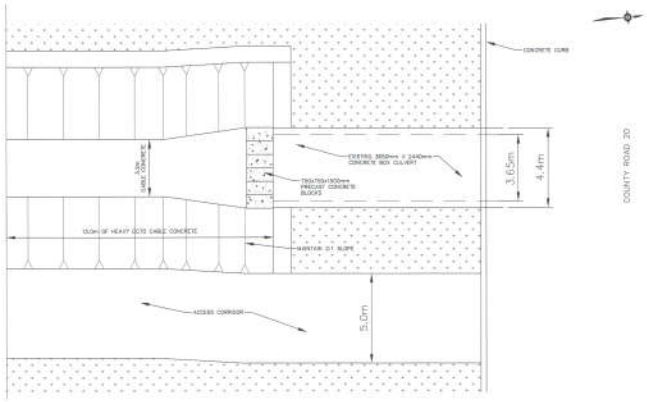
STA. 0+000 (WEIR DETAIL)

PROJECT NO. 14-425

SHEET NO. 38 OF 47



PROFILE OF CONCRETE CULVERT UNDER COUNTY ROAD 20



OUTLET DETAIL FOR SOUTH END OF 3650mm X 2440mm CONCRETE CULVERT UNDER COUNTY ROAD 20

L. JABLONSKI

THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

RC SPENCER ASSOCIATES INC. Consulting Engineers

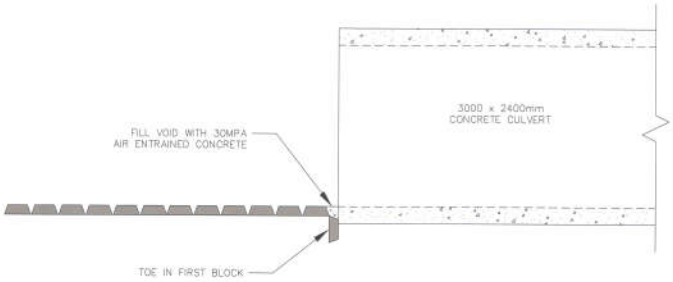
NO.	REVISION	DATE	BY	APP.
4.				
3.				
2.				
1.				

DESIGN L.J.
CHECKED A.M.G.
DRAWN A.A.H.
CHECKED R.C.S.
DATE JUNE 17, 2015
SCALE

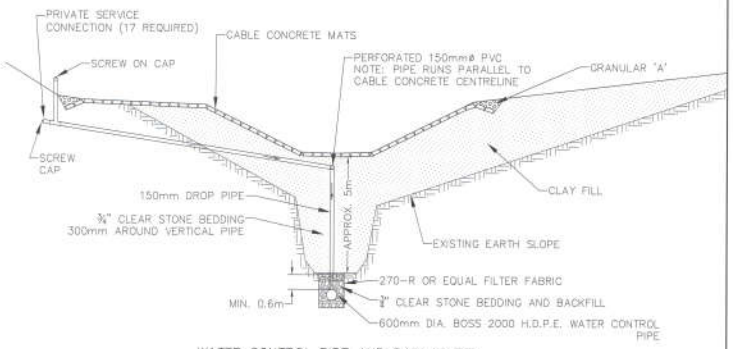
ESSELTINE DRAIN

COUNTY ROAD 20
CONCRETE CULVERT
OUTLET DETAIL

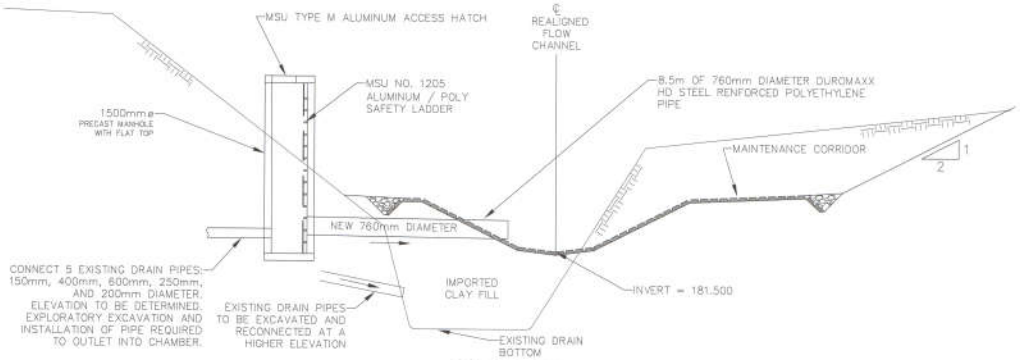
PROJECT NO. 14-425
SHEET NO. 39 OF 47



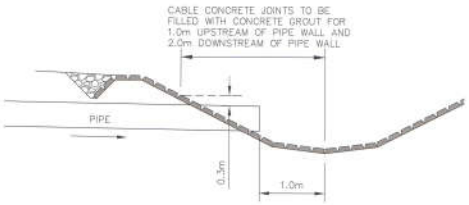
CABLE CONCRETE BLOCKS ADJACENT TO
CONCRETE STRUCTURE GENERAL DETAIL



WATER CONTROL PIPE AND RAIN WATER
DRAIN CONNECTION DETAILS FOR INDIVIDUAL
CONNECTIONS TO EXISTING RAVINE HOMES
SCALE = 1:75



STATION 0+220
STORM WATER COLLECTION MANHOLE DETAIL FOR
GREENHOUSES SOUTH OF COUNTY ROAD 20
SCALE = 1:75
EXPLORATORY EXCAVATION AND CAMERA WORK REQUIRED***



DETAIL FOR PIPE OUTLET
THROUGH CABLE CONCRETE

THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE.

Kingsville ONTARIO

B.C. SPENCER ASSOCIATES INC.
Consulting Engineers

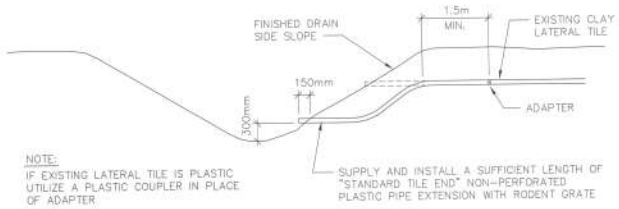
NO.	REVISION	DATE	BY	APP.
5.				
4.				
3.				
2.				
1.				

DESIGN L.Z.
CHECKED A.M.G.
DRAWN A.A.H.
CHECKED B.C.S.
DATE JUNE 17, 2016
SCALE AS SHOWN

ESSELTINE DRAIN

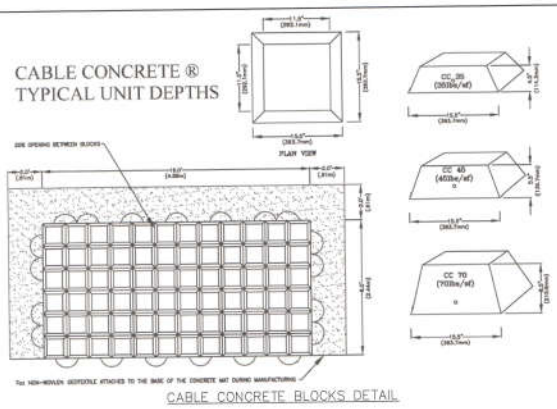
MISCELLANEOUS DETAILS I

PROJECT NO. 14-425
SHEET NO. 40
OF 47

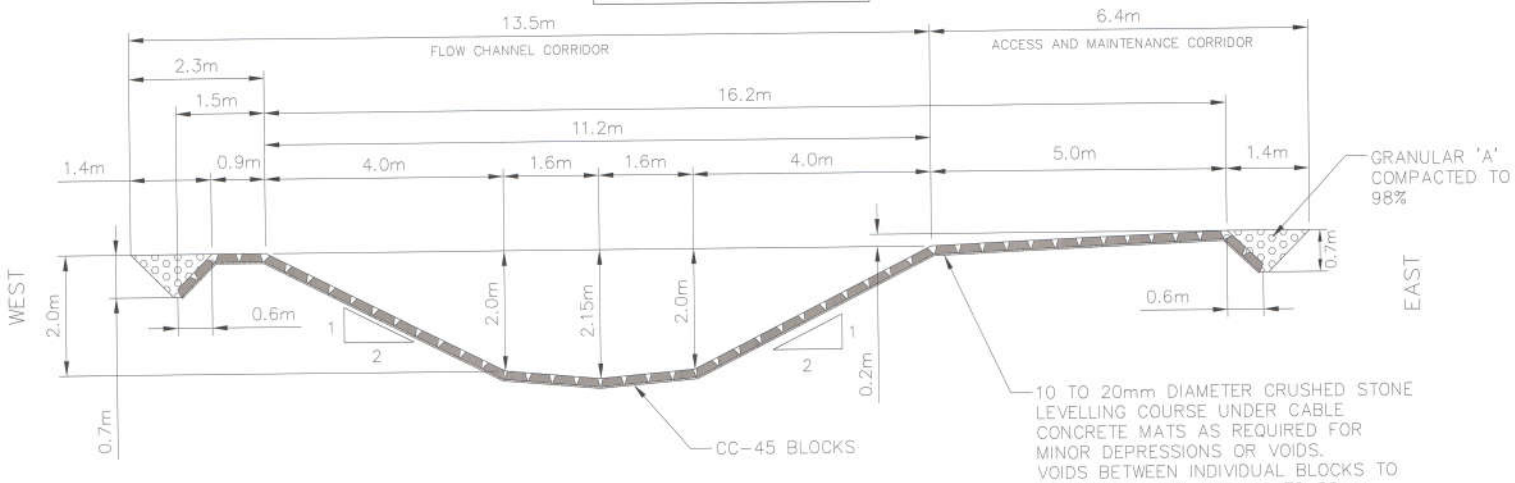


STANDARD LATERAL TILE DETAIL
N.T.S.

PRECAST ARTICULATING CONCRETE BLOCKS ARE TO BE INSTALLED PER ASTM DESIGNATION D6884-03



CABLE CONCRETE BLOCKS DETAIL



NOTE: STANDARD MAT SIZE IS 2.44mx4.88m

FLOW CHANNEL AND MAINTENANCE CORRIDOR DETAILS
(STATION 0+000 TO 0+520)
SCALE 1:30

THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

B.C. SPENCER ASSOCIATES INC.
Consulting Engineers

NO.	REVISION	DATE	BY	APP.
5				
4				
3				
2				
1				

DESIGN L.E.
CHECKED A.M.G.
DRAWN A.A.H.
CHECKED R.C.S.
DATE JUNE 17, 2014
SCALE AS SHOWN

ESSELTINE DRAIN

MISCELLANEOUS DETAILS II

PROJECT NO. 14-425
SHEET NO. 41
OF 47

THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

R.C. SPENCER ASSOCIATES INC.
Consulting Engineers

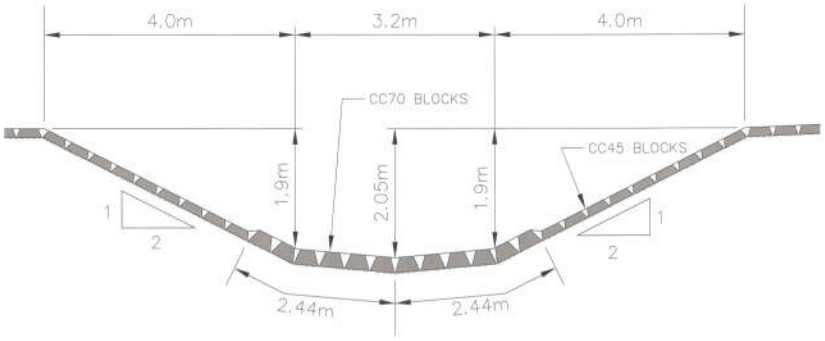
NO.	REVISION	DATE	BY	APP.
5.				
4.				
3.				
2.				
1.				

DESIGN L.Z.
CHECKED A.M.G.
DRAWN A.A.P.
CHECKED R.C.S.
DATE JUNE 17, 2016
SCALE 1:200

ESSELTINE DRAIN

DRAIN OUTLET AND SHORELINE WORKS DETAIL

PROJECT NO. 14-425
SHEET NO. 42
OF 47



OPTIONAL FISH RIFFLE DETAIL WITH CC70 BLOCKS
(IF REQUIRED)

CHANNEL BOTTOM PROFILE FOR FISH BAFFLES IN CABLE CONCRETE (IF REQUIRED)

THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

R.C. SPENCER ASSOCIATES INC.
Consulting Engineers

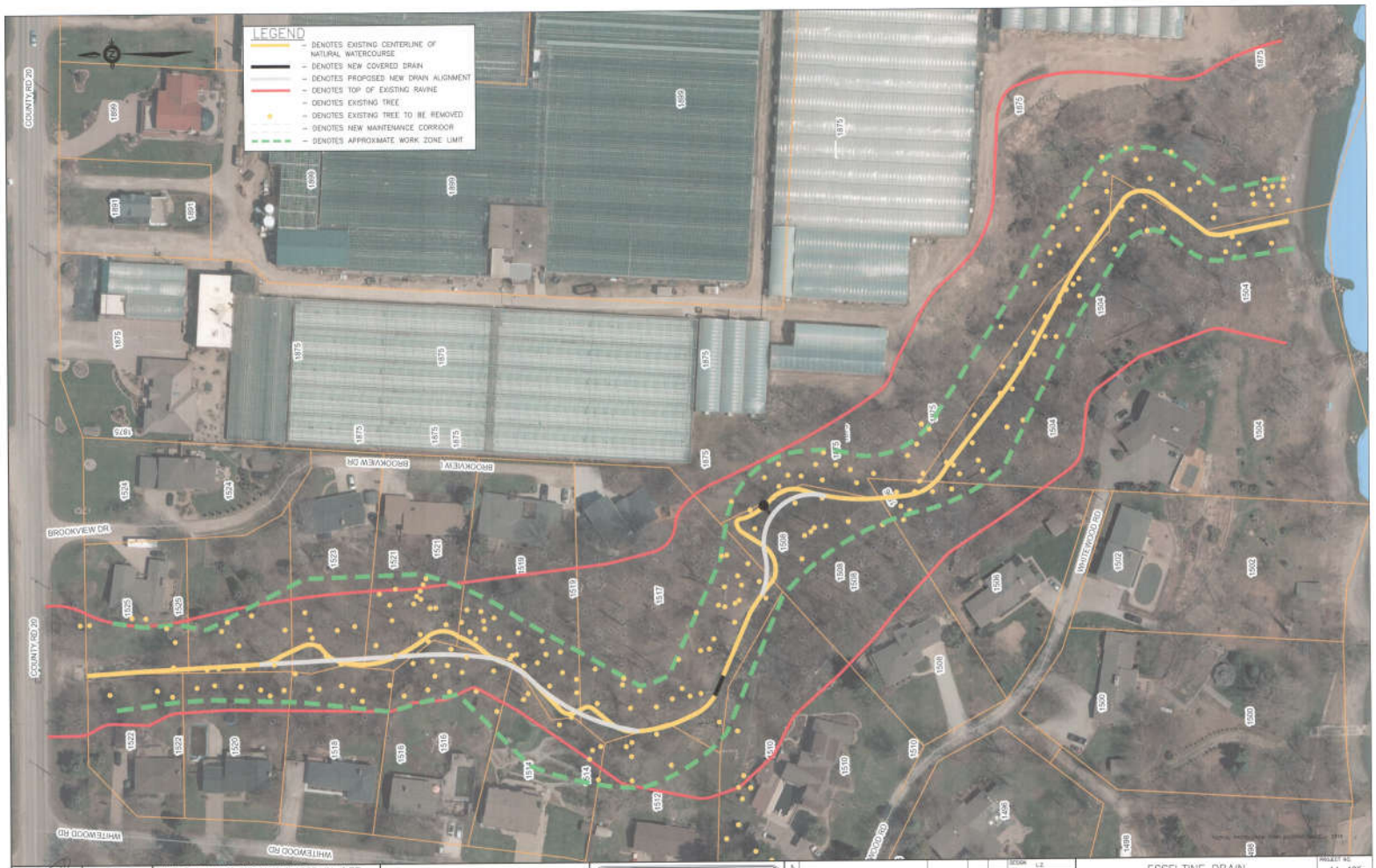
NO.	REVISION	DATE	BY	APP.
5.				
4.				
3.				
2.				
1.				

DESIGN L.Z.
CHECKED A.M.S.
DRAWN K.A.H.
CHECKED R.C.S.
DATE JUNE 17, 2016
SCALE 1:100

ESSELTINE DRAIN

FISH HABITAT DETAILS

PROJECT NO. 14-425
SHEET NO. 43
OF 47



THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

R.C. SPENCER ASSOCIATES INC.
Consulting Engineers

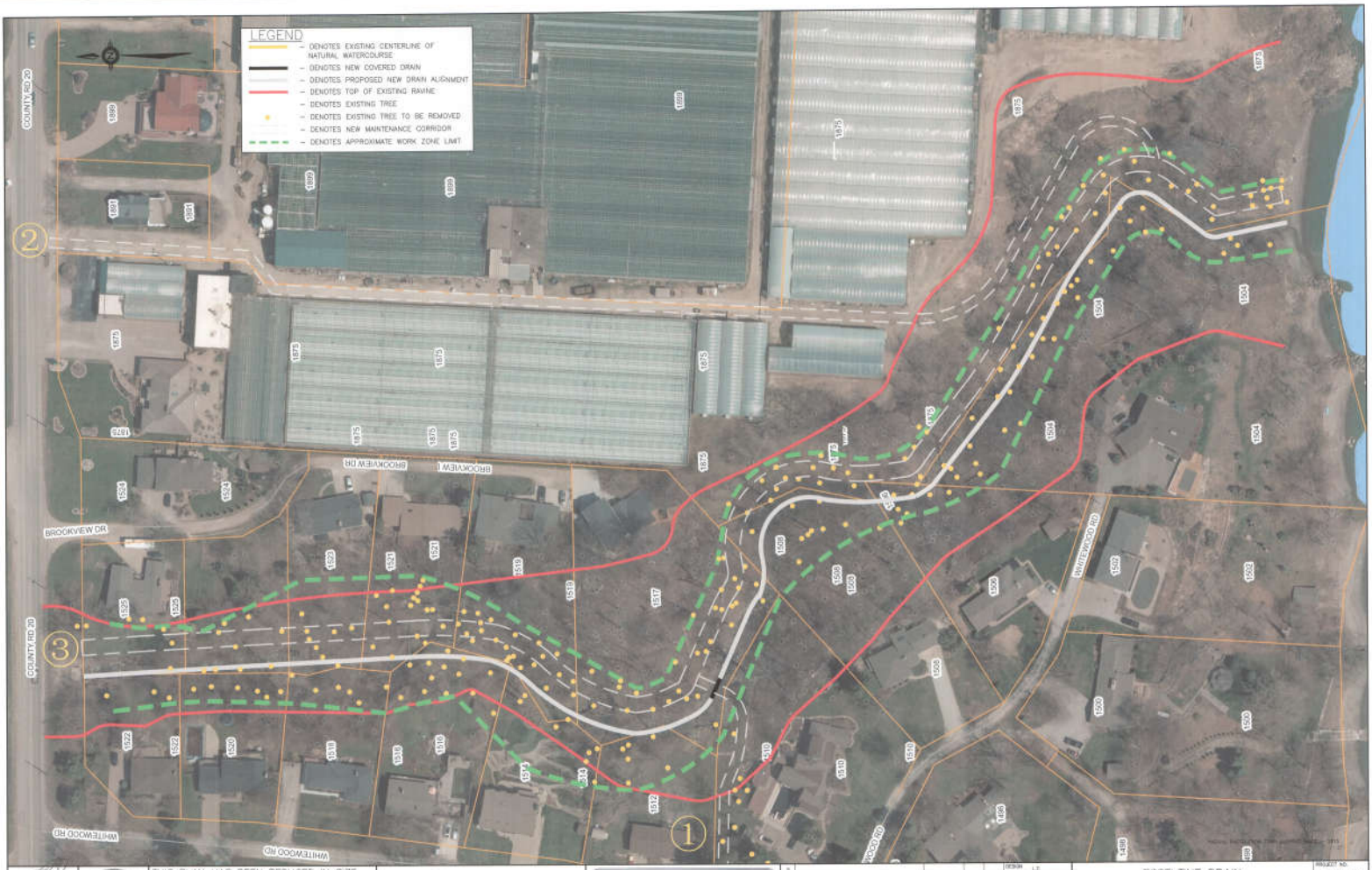
NO.	REVISION	DATE	BY	APP.
5.				
4.				
3.				
2.				
1.				

DESIGN L.Z.
CHECKED J.M.E.
DRAWN A.A.K.
CHECKED R.C.S.
DATE JUNE 17, 2016
SCALE 1 : 500

ESSELTINE DRAIN

RESIDENTIAL TREES DETAILS

PROJECT NO. 14-425
SHEET NO. 44
OF 47



THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

D.C. SPENCER ASSOCIATES INC.
Consulting Engineers

NO.	REVISION	DATE	BY	APP.
5.				
4.				
3.				
2.				
1.				

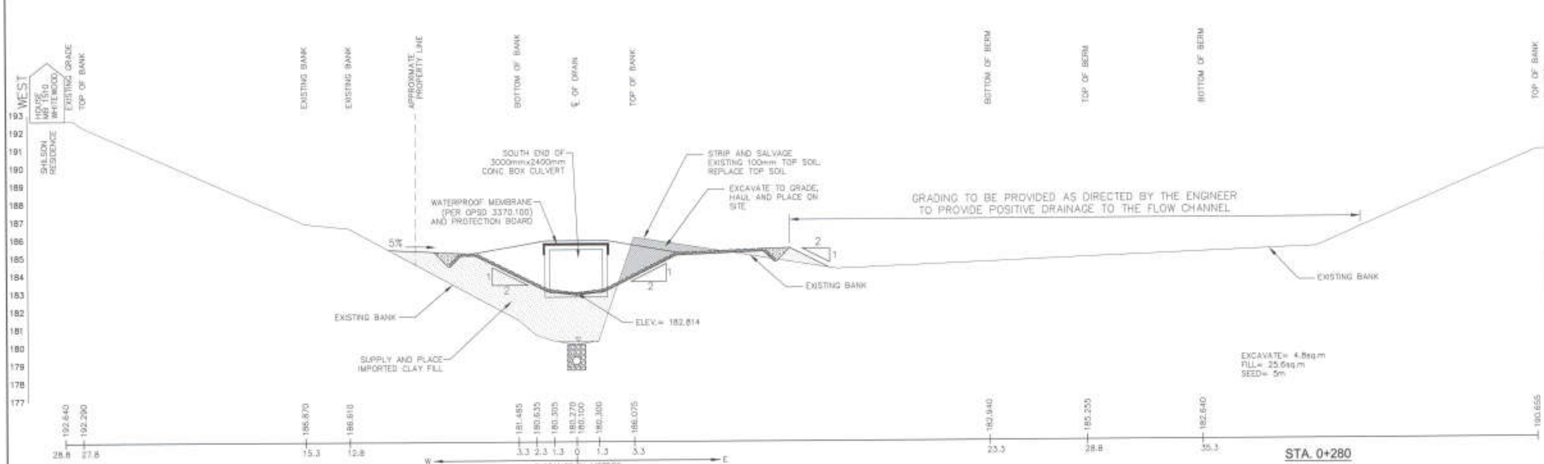
DESIGN	L.E.
CHECKED	A.M.S.
DRAWN	A.A.H.
CHECKED	R.C.S.
DATE	JUNE 17, 2016
SCALE	1 : 500

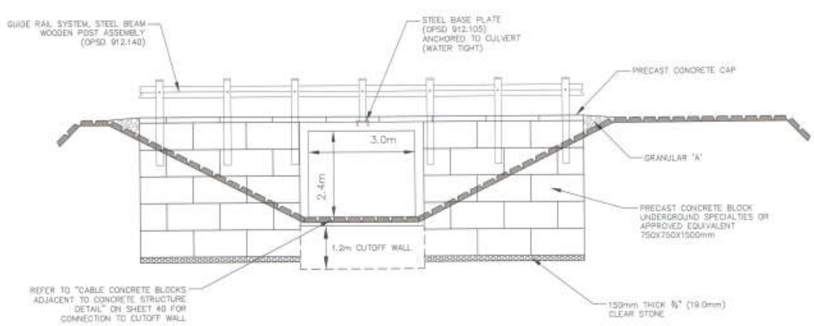
ESSELTINE DRAIN

ACCESS AND MAINTENANCE CORRIDOR DETAILS

PROJECT NO. 14-425

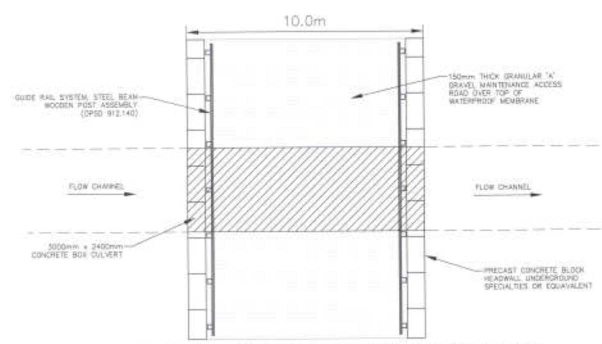
SHEET NO. 45 OF 47





INSTALL NEW CONCRETE CULVERT AND BLOCK HEADWALL DETAIL

SCALE: 1 : 50



CONCRETE CULVERT AND BLOCK HEADWALL (TOP VIEW) DETAIL

SCALE: 1 : 75

THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

RC SPENCER ASSOCIATES INC. Consulting Engineers

NO.	REVISION	DATE	BY	APP.
5				
4				
3				
2				
1				

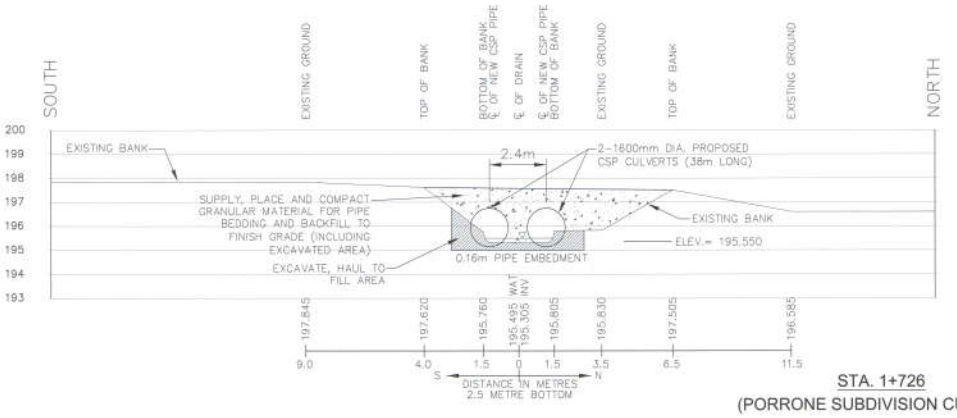
DESIGN	L.Z.
CHECKED	A.M.G.
DRAWN	A.A.H.
CHECKED	R.C.S.
DATE	JUNE 11, 2019
SCALE	H=1:100 V=1:100

ESSELTINE DRAIN

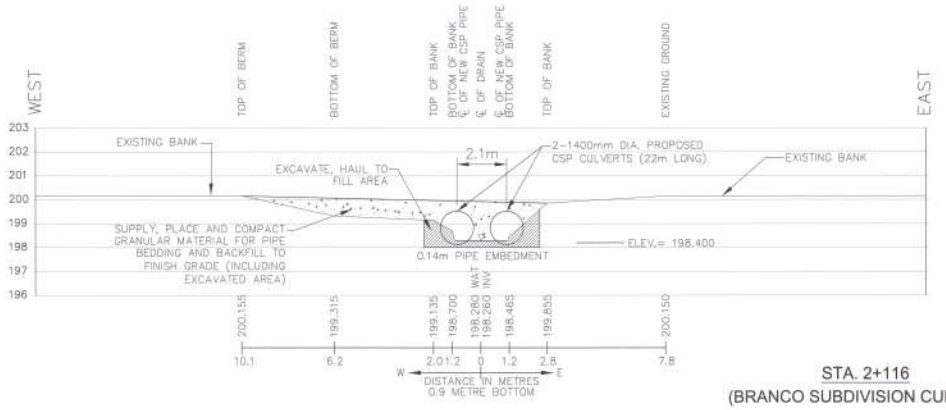
CROSS-SECTION CONCRETE BOX CULVERT DETAIL (STA 0+280)

PROJECT NO. 14-425

SHEET NO. 46 OF 47



STA. 1+726
(PORRONE SUBDIVISION CULVERT)



STA. 2+116
(BRANCO SUBDIVISION CULVERT)

THIS PLAN HAS BEEN REDUCED IN SIZE FOR PRESENTATION PURPOSES AND THEREFORE IT IS NOT TO THE SCALES INDICATED. A FULL SIZE SET OF DRAWINGS IS AVAILABLE FOR REVIEW AT THE TOWN OFFICE

Kingsville ONTARIO

K.C. SPENCER ASSOCIATES Inc.
Consulting Engineers

NO.	REVISION	DATE	BY	APP.
5.				
4.				
3.				
2.				
1.				

DESIGN L.Z.
CHECKED A.W.G.
DRAWN A.A.R.
CHECKED R.G.S.
DATE JUNE 17, 2016
SCALE HORZ 1:100 VERT 1:100

ESSELTINE DRAIN
CROSS-SECTION
CSP CULVERT DETAILS AT
STA 1+726 & 2+116

PROJECT NO. 14-425
SHEET NO. 47
OF 47