RECEIVED
MAR 09 2015
PLANNING/ZONING

ESSEX ALLIANCE CHURCH
ROUTE 2A / ESSEX ROAD

DECEMBER 15, 2009
REVISED JANUARY 23, 2015

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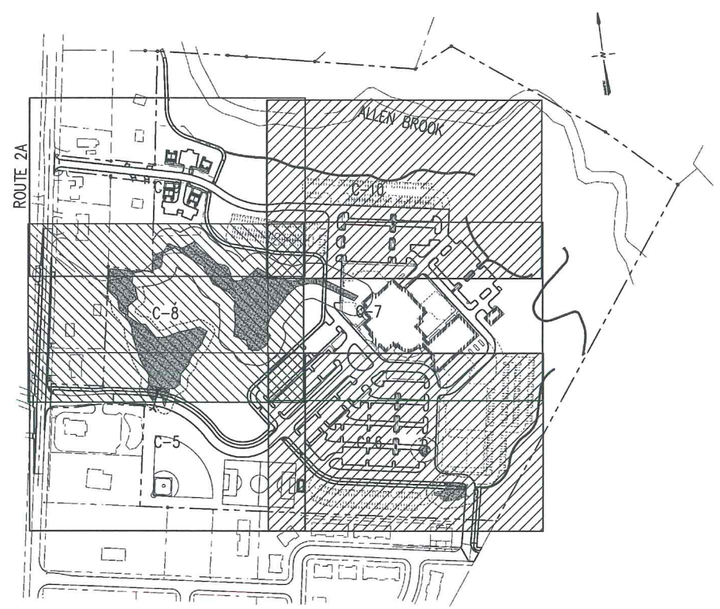
APPROVAL SIGNATURE BLOCK
UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BYLAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT DP09-21, THE WILLISTON DEVELOPMENT REVIEW BOARD APPROVED THE FINAL PLANS FOR THE ESSEX ALLIANCE CHURCH ON THE 22 DAY OF APRIL 2015
DEVELOPMENT REVIEW BOARD PRESIDING MEMBER



1 TITLE SHEET LAYOUT PLAN
N.T.S.

APPLICATION NO: DP 09-21
TAX PARCEL NO: 8:102:28, 48

PERMIT SET

OWNER
ESSEX ALLIANCE CHURCH
37 OLD STAGE ROAD
ESSEX JUNCTION, VERMONT 05452
CONTACT: SCOTT SLOCUM

APPLICANT
ESSEX ALLIANCE CHURCH
37 OLD STAGE ROAD
ESSEX JUNCTION, VERMONT 05452
CONTACT: JEFF KOLOK
(802) 899-3070

ARCHITECTS
GARDNER KILCOYNE ARCHITECTS
147 ALLEN BROOK LANE, SUITE 103
WILLISTON, VT 05495
CONTACT: BILL GARDNER, NCARB
(802) 655-0145

JEFFREY HARRIS ARCHITECT
16 FERRY ROAD
DOYLESTOWN, PENNSYLVANIA 18901
CONTACT: JEFFREY A. HARRIS, A.I.A.
(215) 603-4054

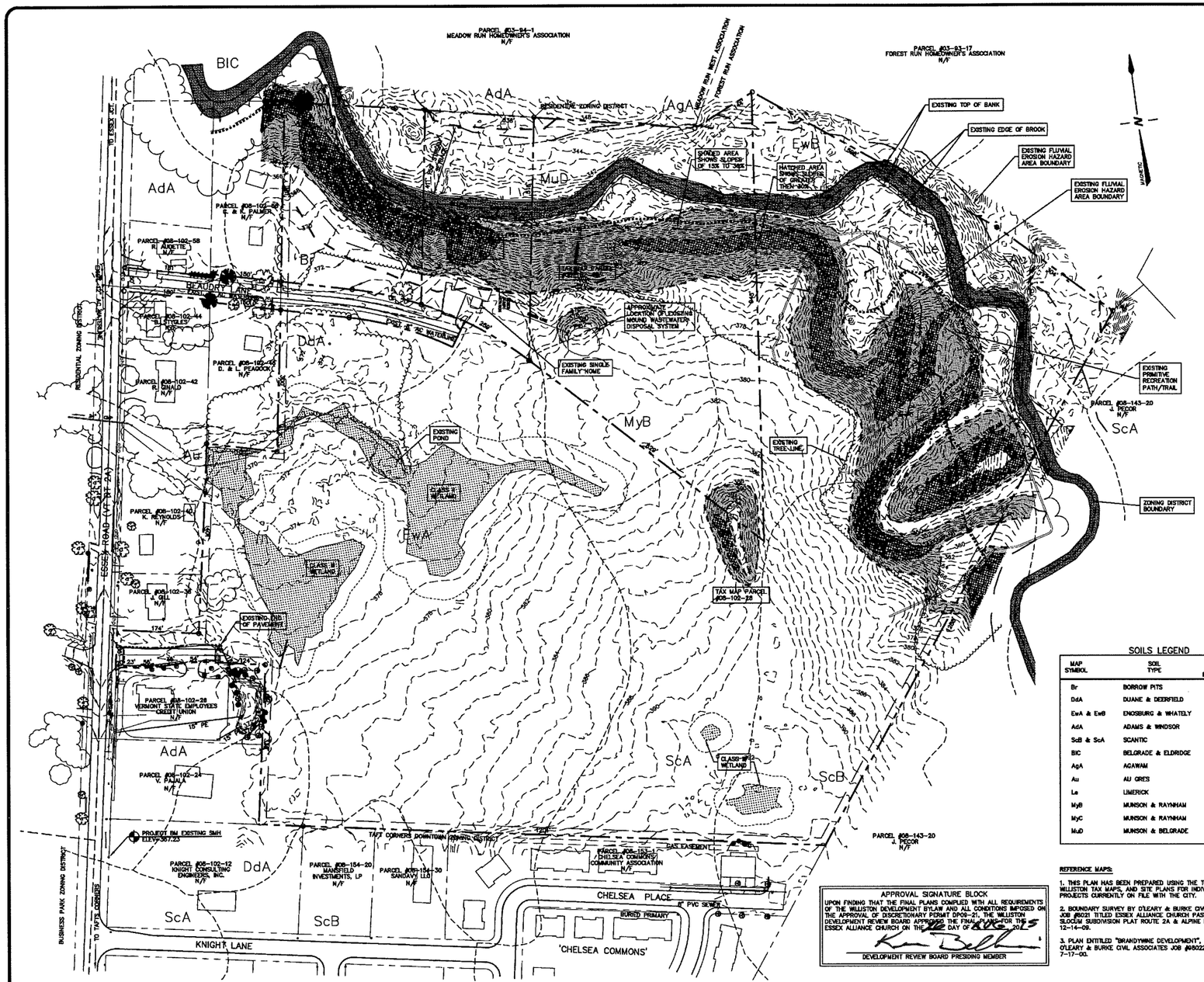
CIVIL ENGINEER
CHAMPLAIN CONSULTING ENGINEERS
85 PRIM ROAD, P.O. BOX 453
COLCHESTER, VERMONT 05446
CONTACT: MARTIN E. COURCELLE, P.E.
(802) 863-8060

LAND SURVEYOR
DUBOIS & KING
6 GREEN TREE DRIVE
SOUTH BURLINGTON, VT 05403
CONTACT: JOE FLYNN
(802) 878-7661

TRAFFIC ENGINEER
RESOURCE SYSTEM GROUP, INC.
60 LAKE STREET SUITE 1E
BURLINGTON, VERMONT 05401
(802) 383-0118

WETLAND ECOLOGIST
NATURAL RESOURCE CONSULTING SERVICES
67 WEST SHORE ROAD
GRAND ISLE, VERMONT 05458
CONTACT: PETER SPEAR
(802) 878-4800

DP 09-21

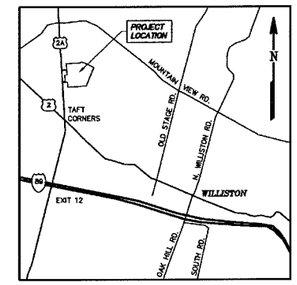


EXISTING CONDITIONS PLAN

SCALE 1" = 100'

Graphic Scale: 100 0 100 200 300 400 feet

THIS TOPOGRAPHIC SURVEY WAS CONDUCTED WITHOUT THE BENEFIT OF "DIG SAFE" MARKINGS. UTILITIES SHOWN ARE NOT WARRANTED TO BE EXACT OR COMPLETE. THE CONTRACTOR SHALL CONTACT "DIG SAFE" AT 1-888-344-7233 BEFORE COMMENCING ANY WORK AND SHALL PRESERVE EXISTING UTILITIES WHICH ARE NOT PART OF THE DEMOLITION PLAN.



LOCATION MAP

N.T.S.

DESIGN SUMMARY:

1. PROJECT DESCRIPTION:

PROPOSED ESSEX ALLIANCE CHURCH CAMPUS COMPRISED OF AN APPROXIMATELY 57,400± SQUARE FEET FOOTPRINT, 573± TOTAL PHASE I PARKING SPACES, ACCESS ROADS AND ASSOCIATED INFRASTRUCTURE AND GREEN SPACE INCLUDING RECREATION FIELDS AND RECREATION PATHS.

2. PROJECT CONTACTS:

OWNER: ESSEX ALLIANCE CHURCH
37 OLD STAGE ROAD
ESSEX JUNCTION, VERMONT 05452
www.essexalliance.org
CONTACT: SCOTT SLOCUM

APPLICANT: ESSEX ALLIANCE CHURCH
37 OLD STAGE ROAD
ESSEX JUNCTION, VERMONT 05452
www.essexalliance.org
CONTACT: JEFF KOLOK, BUILDING COMMITTEE CHAIR
(802) 869-3070
jeff@kolokinc.com

ARCHITECTS: GARDNER KILDOYNE ARCHITECTS
147 ALLEN BROOK LANE, SUITE 103
WILLISTON, VERMONT 05495
CONTACT: BILL GARDNER, NCARB
(802) 855-0145
bgardner@gk-architects.com

JEFFREY HARRIS ARCHITECT
16 FERRY ROAD
DOYLESTOWN, PENNSYLVANIA 18901
CONTACT: JEFFREY A. HARRIS, A.I.A.
(215) 603-4054
jharris@churcharchitects.com

CIVIL ENGINEER: CHAMPLAIN CONSULTING ENGINEERS
85 PRIM ROAD, P.O. BOX 453
COLCHESTER, VERMONT 05446
CONTACT: MARTIN E. COURCELLE, P.E.
(802) 863-8060
mcourcelle@champlainconsulting.net

LAND SURVEYOR: O'LEARY-BURKE CIVIL ASSOCIATES
5 ANDREW AVENUE, SUITE 5
ESSEX JUNCTION, VERMONT 05452
CONTACT: KARL MARCHESSAULT, P.E.
(802) 878-9990
karlm@olearyburke.com

WETLAND ECOLOGIST: NATURAL RESOURCE CONSULTING SERVICES
67 WEST SHORE ROAD
GRAND ISLE, VERMONT 05458
CONTACT: PETER SPEAR
(802) 878-4600
pwsnrcs@metrocast.net

3. ZONING & PARCEL INFORMATION:

ZONING DISTRICT: TAFTS CORNERS DOWNTOWN ZONING DISTRICT, TCZD

COVERAGE:
PARCEL A AREA: 52.8 ACRES (EXISTING TOTAL AREA: 54.1)
BUILDING COVERAGE PROPOSED: 2.5%
LOT COVERAGE PROPOSED: 19.6%

GENERAL NOTES:

1. PRIOR TO COMMENCING SITE WORK, THE GENERAL CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS. THE PROJECT ENGINEER SHALL BE NOTIFIED IMMEDIATELY WHERE DISCREPANCIES EXIST BETWEEN THE PROJECT DRAWINGS AND ACTUAL FIELD CONDITIONS.

2. THE GENERAL CONTRACTOR SHALL CONTACT DIG SAFE (1-888-344-7233) SEVENTY TWO HOURS PRIOR TO ANY EXCAVATION TO ACCURATELY ESTABLISH THE LOCATION OF ALL UNDERGROUND UTILITIES ON THE PROJECT SITE.

3. WHERE DIMENSIONS ON THE PROJECT DRAWINGS ARE UNCLEAR, CONTACT THE PROJECT ENGINEER IMMEDIATELY FOR CLARIFICATION.

4. IT IS THE GENERAL CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE PROJECT DRAWINGS REFLECT THE LATEST REVISIONS.

5. THIS PLAN SET PREPARED BY CHAMPLAIN CONSULTING ENGINEERS SHALL NOT BE CONSIDERED AS A BOUNDARY SURVEY. ALL PROPERTY BOUNDARIES SHOWN ARE CONSIDERED APPROXIMATE.

6. ALL EXISTING UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ACTUAL LOCATIONS PRIOR TO CONSTRUCTION.

7. REFER TO THE SITE SPECIFICATION MANUAL FOR ADDITIONAL INFORMATION.

SOILS LEGEND

MAP SYMBOL	SOIL TYPE	COVERAGE AREA ON PARCEL (ac)
Br	BORROW PITS	2.08
DdA	DUANE & DEERFIELD	2.23
EwA & EwB	ENOSBURG & WHATELY	16.96
AdA	ADAMS & WINDSOR	1.16
ScB & ScA	SCANTIC	13.12
BIC	BELGRADE & ELDRIDGE	0.42
AgA	AGAWAM	0.12
Au	AU GRES	1.41
Le	LIMERICK	1.51
MyB	MUNSON & RAYNHAM	2.85
MyC	MUNSON & RAYNHAM	3.17
MuD	MUNSON & BELGRADE	9.12

REFERENCE MAPS:

1. THIS PLAN HAS BEEN PREPARED USING THE TOWN OF WILLISTON TAX MAPS, AND SITE PLANS FOR INDIVIDUAL PROJECTS CURRENTLY ON FILE WITH THE CITY.

2. BOUNDARY SURVEY BY O'LEARY & BURKE CIVIL ASSOCIATES, JOB #8021 TITLED ESSEX ALLIANCE CHURCH PASTOR SCOTT SLOCUM SUBDIVISION PLAT ROUTE 2A & ALPINE DRIVE, DATED 12-14-09.

3. PLAN ENTITLED "BRANDYWINE DEVELOPMENT", PREPARED BY O'LEARY & BURKE CIVIL ASSOCIATES JOB #8022 DATED 7-17-00.

APPROVAL SIGNATURE BLOCK

UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BYLAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT DP09-21, THE WILLISTON DEVELOPMENT REVIEW BOARD APPROVED THE FINAL PLANS FOR THE ESSEX ALLIANCE CHURCH ON THE 15 DAY OF DECEMBER, 2015

DEVELOPMENT REVIEW BOARD PRESIDING MEMBER

LEGEND

EXISTING CONTOUR	362	EXISTING BUILDING SETBACK	
EXISTING TREELINE		EXISTING STREAM SETBACK	
EXISTING WETLAND		SOIL CLASSIFICATION BOUNDARY	
EXISTING 100 YR FLOOD PLAIN		EXISTING WATER LINE	
EXISTING PROPERTY LINE W/ DIMENSION	123'	EXISTING SANITARY SEWER LINE	
EXISTING ZONING DISTRICT BOUNDARY		EXISTING GAS LINE	

APPLICATION NO: DP 09-21
TAX PARCEL NO: 8:102:28, 48

PERMIT SET

REVISION DATE & DESCRIPTION	BY
02/19/10 - REVISED PER TOWN COMMENTS	MEC
02/18/10 - REVISED	MEC
03/30/12 - REVISED TO REDUCE WETLAND IMPACT	MEC
08/10/12 - ISSUED FOR PERMITTING	MEC
01/22/14 - REVISED TITLE SHEET CONTACTS	MEC

Champlain Consulting ENGINEERS
85 PRIM ROAD, P.O. BOX 453
COLCHESTER, VERMONT 05446
(802) 863-8060 - 864-1878 FAX

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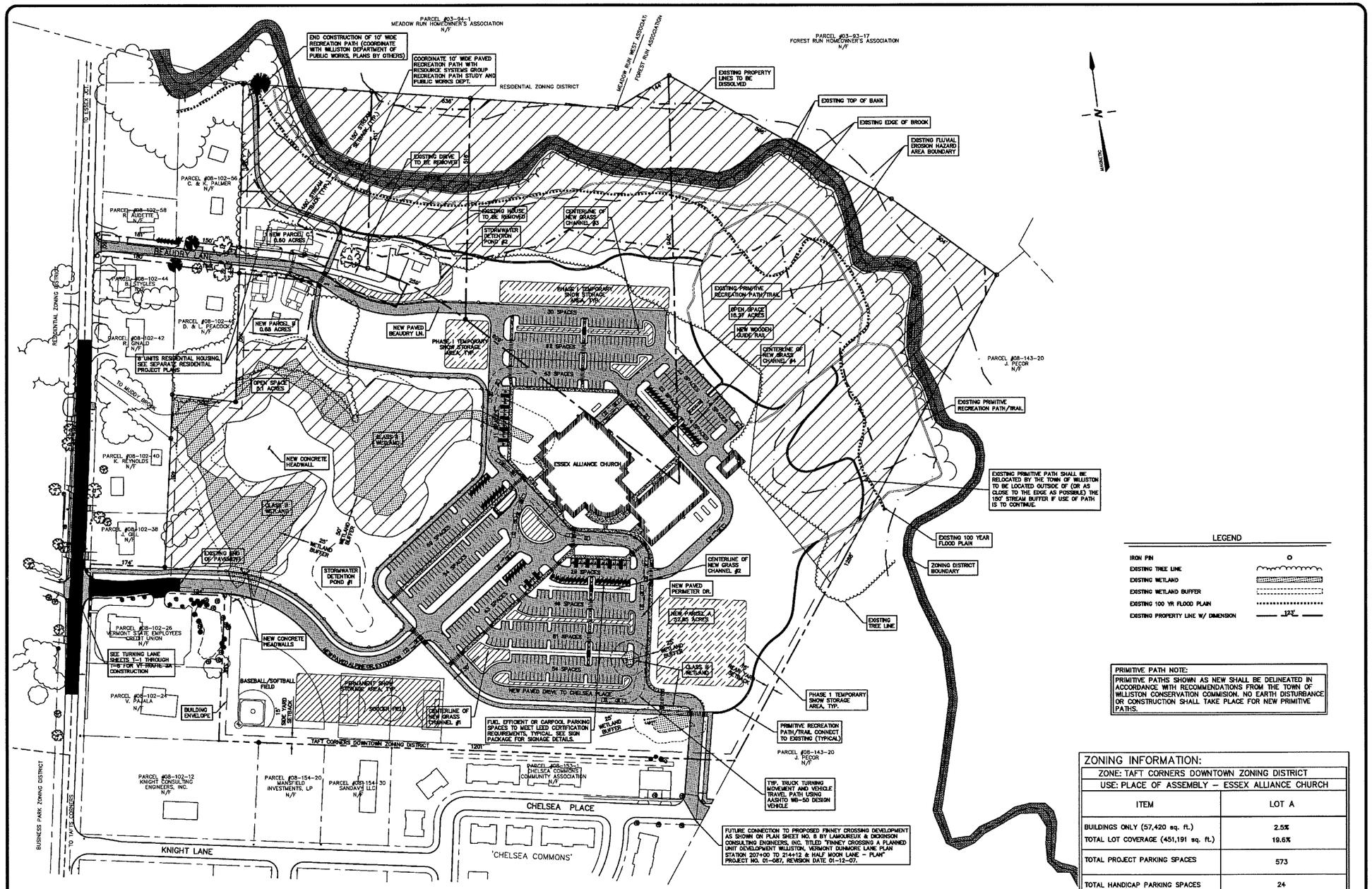
STATE OF VERMONT MARTIN E. COURCELLE NO. 8745 CIVIL LICENSED PROFESSIONAL ENGINEER

ESSEX ALLIANCE CHURCH
ROUTE 2A / ESSEX ROAD
EXISTING CONDITIONS PLAN
WILLISTON VERMONT

DRAWN	CCE
CHECKED	MEC
SCALE	1" = 100'
DATE	12/15/09
JOB NO.	25141
SHEET	C-1

OF 18 SHEETS



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OVERALL SITE PLAN

(1) C-2

SCALE 1" = 100'

Graphic Scale

100 0 100 200 300 400 feet

LEGEND

IRON PIN	o
EXISTING TREE LINE	
EXISTING WETLAND	
EXISTING WETLAND BUFFER	
EXISTING 100 YR FLOOD PLAIN	
EXISTING PROPERTY LINE W/ DIMENSION	123'

PRIMITIVE PATH NOTE:

PRIMITIVE PATHS SHOWN AS NEW SHALL BE DELINEATED IN ACCORDANCE WITH RECOMMENDATIONS FROM THE TOWN OF WILLISTON CONSERVATION COMMISION. NO EARTH DISTURBANCE OR CONSTRUCTION SHALL TAKE PLACE FOR NEW PRIMITIVE PATHS.

ZONING INFORMATION:

ZONE: TAFT CORNERS DOWNTOWN ZONING DISTRICT

USE: PLACE OF ASSEMBLY – ESSEX ALLIANCE CHURCH

ITEM	LOT A
BUILDINGS ONLY (57,420 sq. ft.)	2.5%
TOTAL LOT COVERAGE (451,191 sq. ft.)	19.6%
TOTAL PROJECT PARKING SPACES	573
TOTAL HANDICAP PARKING SPACES	24

APPROVAL SIGNATURE BLOCK

UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BYLAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT DP09-21, THE WILLISTON DEVELOPMENT REVIEW BOARD APPROVED THE FINAL PLANS FOR THE ESSEX ALLIANCE CHURCH ON THIS 25 DAY OF AUG, 20 15

DEVELOPMENT REVIEW BOARD PRESIDING MEMBER

APPLICATION NO: DP 09-21
TAX PARCEL NO: 8:102:28, 48

PERMIT SET

REVISION DATE & DESCRIPTION	BY
02/18/10 – REVISED PER TOWN COMMENTS	MEC
05/26/10 – REVISED PER VT WATER SUPPLY	MEC
02/15/11 – REVISED	MEC
03/30/12 – REVISED TO REDUCE WETLAND IMPACT	MEC
06/10/12 – ISSUED FOR PERMITTING	MEC
09/20/12 – REVISED PER TOWN COMMENTS	MEC
07/02/13 – REVISED PRIMITIVE PATH LOCATION	MEC
01/21/14 – REVISED TO REFLECT TURN LANE PLANS	MEC
01/23/15 – REVISED REC. PATH	MEC

Champlain Consulting ENGINEERS
85 PRIM ROAD, P.O. BOX 453
COLCHESTER, VERMONT 05446
(802) 863-8060 - 864-1878 FAX
www.champlainconsulting.net

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STATE OF VERMONT
MARK E. CONCELLE
NO. 8745
CIVIL
LICENSED
PROFESSIONAL ENGINEER

Mark E. Concelle

ESSEX ALLIANCE CHURCH
ROUTE 2A / ESSEX ROAD
OVERALL SITE PLAN
WILLISTON VERMONT

DRAWN	CCE
CHECKED	MEC
SCALE	1" = 100'
DATE	12/15/09
JOB NO.	26141
SHEET	C-2

OF 18 SHEETS

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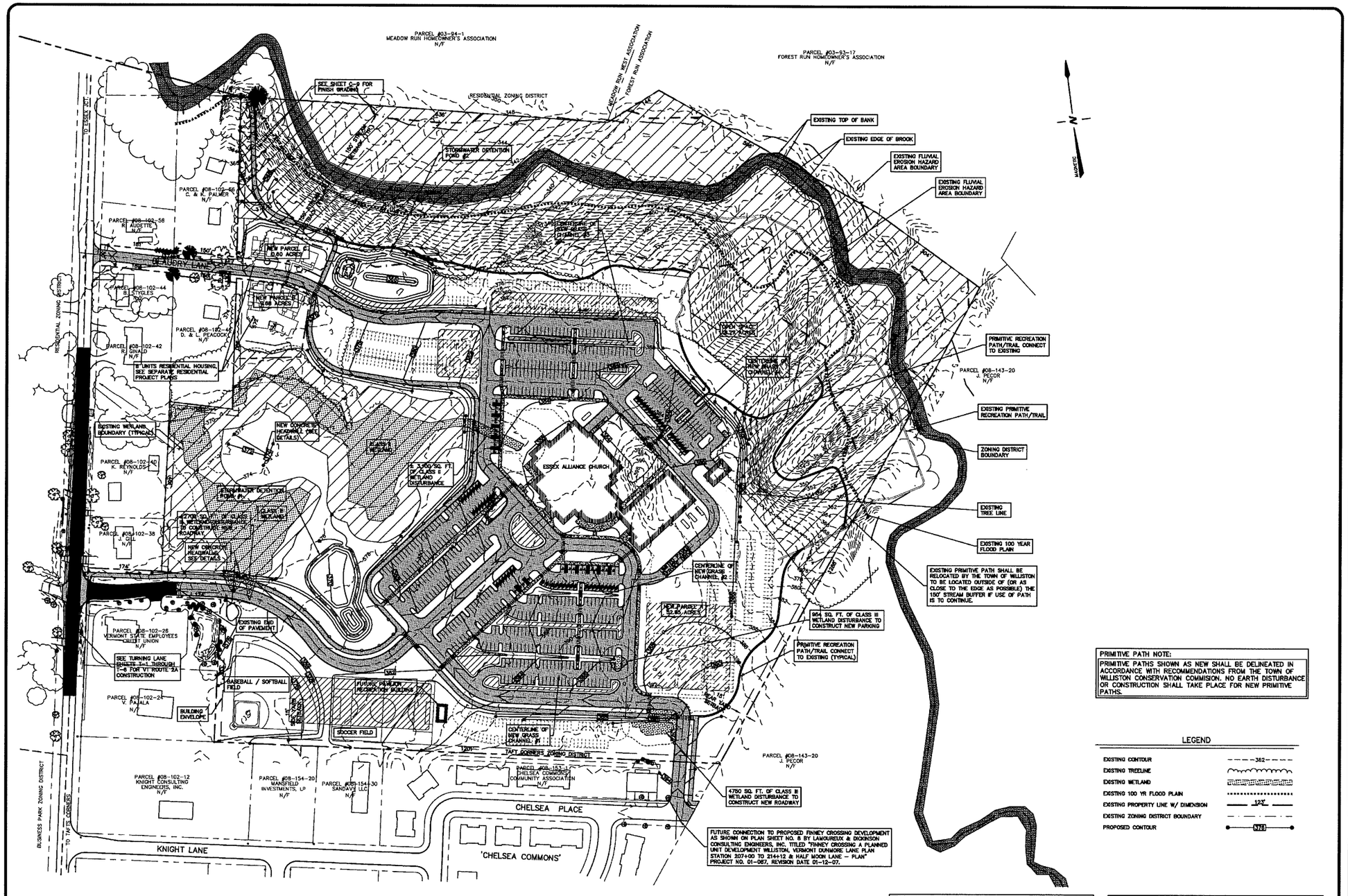

PRIMITIVE PATH NOTE:

PRIMITIVE PATHS SHOWN AS NEW SHALL BE DELINEATED IN ACCORDANCE WITH RECOMMENDATIONS FROM THE TOWN OF WILLISTON CONSERVATION COMMISION. NO EARTH DISTURBANCE OR CONSTRUCTION SHALL TAKE PLACE FOR NEW PRIMITIVE PATHS.

LEGEND

EXISTING CONTOUR	382
EXISTING TREELINE	
EXISTING WETLAND	
EXISTING 100 YR FLOOD PLAIN	
EXISTING PROPERTY LINE W/ DIMENSION	12'
EXISTING ZONING DISTRICT BOUNDARY	
PROPOSED CONTOUR	378

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1 C-3 OVERALL GRADING PLAN

SCALE 1" = 100'

Graphic Scale

100 0 100 200 300 400 feet

APPROVAL SIGNATURE BLOCK

UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BYLAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT DP09-21, THE WILLISTON DEVELOPMENT REVIEW BOARD APPROVED THE FINAL PLANS FOR THE ESSEX ALLIANCE CHURCH ON THE 28 DAY OF June 2015

DEVELOPMENT REVIEW BOARD PRESIDING MEMBER

APPLICATION NO: DP 09-21
TAX PARCEL NO: 8:102:28, 48

PERMIT SET

REVISION DATE & DESCRIPTION	BY
02/19/10 – REVISED PER TOWN COMMENTS	MEC
05/26/10 – REVISED PER VT WATER SUPPLY	MEC
02/15/11 – REVISED	MEC
03/30/12 – REVISED TO REDUCE WETLAND IMPACT	MEC
09/10/12 – ISSUED FOR PERMITTING	MEC
09/20/12 – REVISED PER TOWN COMMENTS	MEC
07/02/13 – REVISED PRIMEVIE PATH LOCATION	MEC
01/23/14 – REVISED TO REFLECT TURN LANE PLANS	MEC
01/23/15 – REVISED REC. PATH	MEC

Champlain Consulting ENGINEERS
85 PRIM ROAD, P.O. BOX 453
COLCHESTER, VERMONT 05446
(802) 863-8060 - 864-1878 FAX

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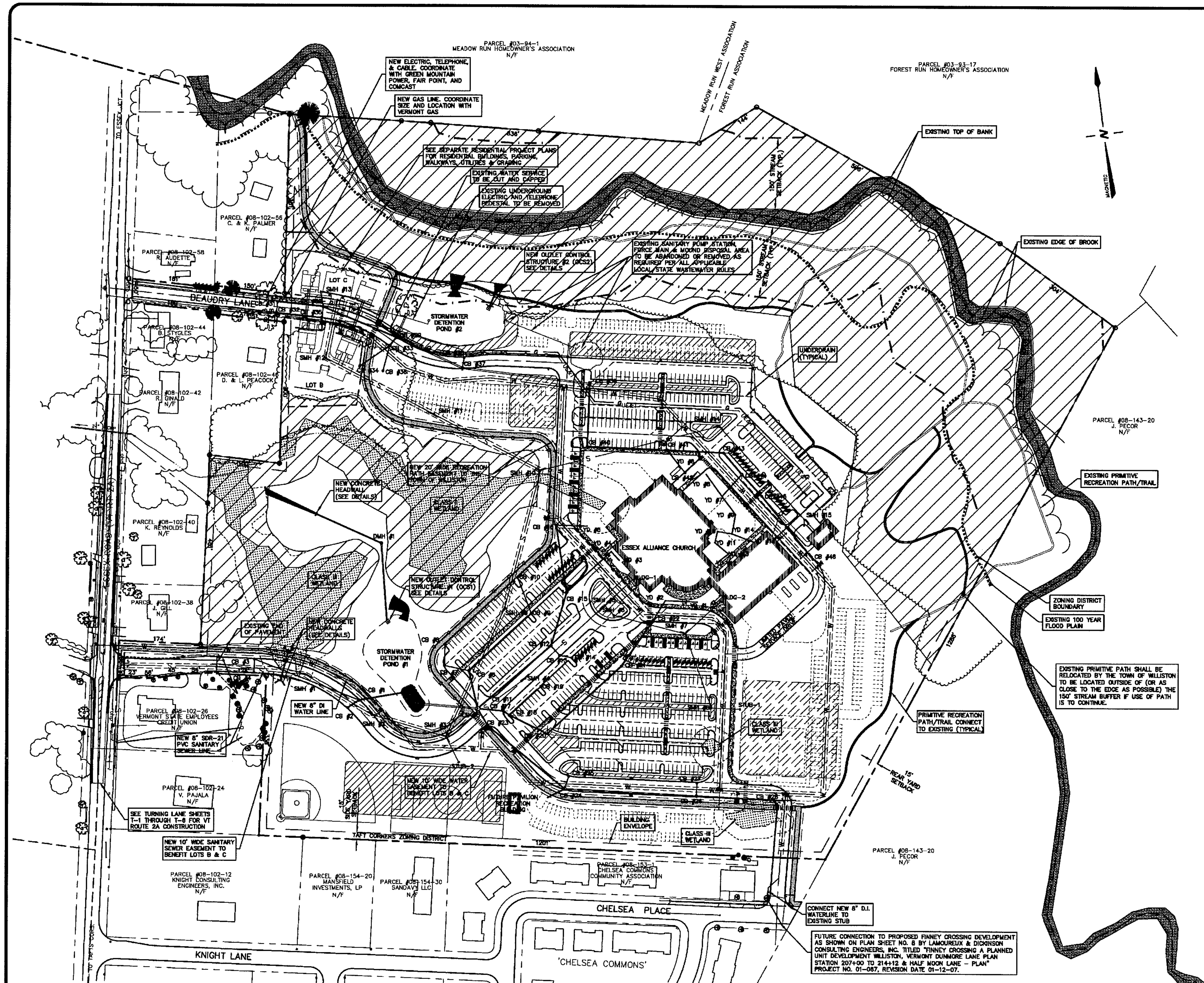
STATE OF VERMONT MARK E. CORNELLE NO. 8745 CIVIL LICENSED PROFESSIONAL ENGINEER

ESSEX ALLIANCE CHURCH
ROUTE 2A / ESSEX ROAD
OVERALL GRADING PLAN
WILLISTON VERMONT

DRAWN	CCE
CHECKED	MEC
SCALE	1" = 100'
DATE	12/15/09
JOB NO.	28141
SHEET	C-3

OF 18 SHEETS

N:\ccsk\pro\28141\28141_02.dwg Fri Jan 23 4:22:06 2015 CJS/MEC



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(1/C-4) OVERALL UTILITY PLAN

SCALE 1" = 100'

Graphic Scale: 100 0 100 200 300 400 feet

DRAINAGE SUMMARY

CB NO.	RIM	MINIMUM STRUCTURE DIA. (IN)	INV. IN	INV. OUT	PIPE TO NEXT INVERT DIA. (In)	LENGTH (ft)	INVERT	SLOPE ft/ft
1	379.94	60	372.00	371.90	24	89.7	371.00	0.010
2	379.88	48	–	373.27	24	25.5	372.00	0.050
3	378.17	48	373.26	373.16	12	232.3	372.00	0.005
4	378.17	48	–	373.49	12	23.3	373.26	0.010
5	379.97	96	371.67	371.57	36	113.1	371.00	0.005
6	379.53	60	372.51	372.41	24	74.7	371.67	0.010
7	379.01	48	373.09	372.99	12	48.1	372.51	0.010
8	379.31	48	–	373.90	12	40.2	373.09	0.020
9	382.83	48	376.11	376.01	24	175.0	372.51	0.020
10	383.17	48	–	377.27	12	77.3	376.11	0.015
11	380.19	48	372.34	372.24	24	28.9	371.67	0.020
12	382.89	60	375.73	375.63	24	164.5	372.34	0.020
13	382.89	48	376.97	376.87	12	22.7	375.73	0.050
14	383.35	48	–	378.04	12	21.4	376.97	0.050
15	384.56	60	376.98	376.88	24	112.4	375.73	0.010
16	383.68	48	377.75	377.65	24	139.3	376.98	0.005
17	380.22	48	372.73	372.63	24	48.2	371.67	0.020
18	381.07	60	373.05	372.95	24	11.2	372.73	0.020
19	382.21	48	–	376.44	12	84.7	373.05	0.040
20	381.05	48	374.00	373.90	24	84.3	373.05	0.010
21	383.25	48	376.18	376.08	24	208.3	374.00	0.010
22	384.42	60	378.51	378.41	24	111.5	376.18	0.020
23	380.03	48	372.82	372.72	24	35.0	371.67	0.030
24	383.29	72	377.05	376.95	24	208.7	372.82	0.020
25	383.30	48	–	377.72	12	22.4	377.05	0.030
26	388.27	60	379.90	379.80	24	274.9	377.05	0.010
27	388.27	48	–	380.35	12	22.7	379.90	0.020
28	389.20	48	382.40	382.30	24	160.0	379.90	0.015
29	375.93	72	368.29	368.19	36	37.3	368.00	0.005
30	374.19	48	369.20	369.10	24	162.1	368.29	0.005
31	373.64	48	369.78	369.68	12	92.4	369.20	0.005
32	373.64	48	–	369.85	12	17.3	369.78	0.005
33	375.91	60	368.47	368.37	24	15.8	368.29	0.005
34	373.25	48	369.29	369.19	12	72.4	368.47	0.010
35	374.25	48	369.39	369.29	15	17.2	369.20	0.005
36	376.50	48	–	368.97	12	50.6	368.47	0.010
37	378.28	60	369.13	369.03	36	149.3	368.29	0.005
38	378.35	48	–	369.99	12	17.1	369.13	0.050
39	379.50	60	371.91	371.81	36	287.7	369.13	0.010
40	382.65	48	373.30	373.20	24	128.7	371.91	0.010
41	383.50	60	375.04	374.94	24	164.3	373.30	0.010
42	382.50	48	–	376.11	12	22.7	376.00	0.005
43	382.60	48	376.30	376.20	24	115.7	375.04	0.010
44	382.70	60	376.95	376.85	24	54.8	376.25	0.010
45	384.17	48	377.62	377.52	24	57.7	376.88	0.010
46	388.30	48	–	379.30	24	167.6	377.57	0.010
YD1	385.50	15	–	381.02	15	86.2	379.78	0.040
YD2	385.50	15	379.78	379.78	15	48.0	378.51	0.035
YD3	386.10	15	–	380.53	15	23.2	379.91	0.020
YD4	386.00	15	380.07	380.07	15	124.3	376.98	0.025
YD5	384.60	15	–	379.00	15	62.6	377.75	0.020
YD6	382.25	15	376.00	376.00	15	32.0	375.04	0.030
YD7	384.30	15	378.73	378.73	15	59.3	376.88	0.030
YD8	383.50	15	–	379.29	15	56.0	378.57	0.010
YD9	384.60	15	379.19	379.19	15	46.2	378.57	0.010
YD10	385.50	15	380.70	380.70	15	29.6	379.28	0.030
YD11	385.50	15	380.92	380.92	15	22.8	380.44	0.010
YD12	385.50	15	–	381.61	15	32.2	380.67	0.010
YD13	385.50	15	–	381.29	15	36.1	380.87	0.010
YD14	385.50	15	380.40	380.40	15	40.4	379.28	0.030
YD15	386.50	15	–	381.32	15	46.0	381.35	0.020
YD16	374.50	15	369.53	369.53	15	48.7	369.28	0.005
YD17	375.25	15	369.82	369.82	15	58.1	369.53	0.005
YD18	375.25	15	369.52	369.52	15	26.0	369.39	0.005
YD19	375.25	15	369.79	369.79	15	83.4	369.52	0.005
YD20	375.25	15	369.35	369.35	15	30.2	369.20	0.005
YD21	375.25	15	369.69	369.69	15	67.7	369.35	0.005
YD22	375.25	15	369.92	369.92	15	45.9	369.69	0.005
OCS1	377.00	72 x 72	SEE DETAIL	372.40	24	181.7	371.61	0.005
DMH1	375.10	60	371.59	371.49	24	149.0	370.75	0.005
OCS2	374.00	72 x 72	SEE DETAIL	369.15	24	73.1	368.79	0.005

NOTE: SEE LANDSCAPE PLANS & DETAILS FOR POSSIBLE ADDITIONAL DRAINAGE PIPING TO YARD DRAINS.

SANITARY SEWER SUMMARY

MH NO.	RIM	MINIMUM STRUCTURE DIA. (IN)	INV. IN	INV. OUT	PIPE TO NEXT INVERT DIA. (In)	LENGTH (ft)	INVERT	SLOPE ft/ft
1	379.18	48	364.87	364.77	8	186.23	364.02	0.004
2	380.28	48	365.61	365.51	8	160.87	364.87	0.004
3	381.80	48	366.35	366.25	8	160.87	365.61	0.004
4	381.84	48	369.00	368.90	8	205.31	366.35	0.0124
5	385.75	48	371.65	371.55	8	225.18	369.00	0.0113
6	385.75	48	372.27	372.17	8	25.14	371.65	0.0206
7	386.20	48	375.48	375.38	8	153.22	372.27	0.0203
8	386.87	48	377.47	377.37	8	162.63	375.48	0.0118
9	382.27	48	367.64	367.54	8	297.04	366.35	0.004
10	378.00	48	368.93	368.83	8	297.04	367.64	0.004
11	378.59	48	370.04	369.94	8	253.84	368.93	0.004
12	378.32	48	371.16	371.06	8	253.84	370.04	0.004
13	375.39	48	371.74	371.64	8	120.95	371.16	0.004
14	384.30	48	376.50	376.40	8	387.10	368.93	0.0193
15	388.29	48	381.20	381.10	8	275.62	376.50	0.0187
BLDG 1	–	–	–	373.70	8	78.27	371.65	0.0262
BLDG 2	–	–	–	377.58	8	99.88	375.48	0.021
SHED	–	–	–	381.58	4	18.00	381.20	0.021
STUB 1	–	–	–	378.73	8	60	377.47	0.021
STUB 2	–	–	–	367.61	8	60	366.35	0.021

LEGEND

- EXISTING TREELINE
- EXISTING WETLAND
- EXISTING 100 YR FLOOD PLAIN
- EXISTING PROPERTY LINE W/ DIMENSION — 123'
- EXISTING ZONING DISTRICT BOUNDARY
- PROPOSED DETENTION POND
- WATER LINE — W
- SANITARY SEWER LINE — S
- GAS LINE — G
- STORM LINE
- UNDERGROUND ELECTRIC, CABLE AND TELEPHONE LINE — UE&T

APPROVAL SIGNATURE BLOCK

UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BYLAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT DP09-21, THE WILLISTON DEVELOPMENT REVIEW BOARD APPROVED THE FINAL PLANS FOR THE ESSEX ALLIANCE CHURCH ON THE 26 DAY OF AUG, 2015

[signature]

DEVELOPMENT REVIEW BOARD PRESIDING MEMBER

APPLICATION NO: DP 09-21
TAX PARCEL NO: 8:102:28, 48

PERMIT SET

REVISION DATE & DESCRIPTION	BY
05/26/10 – REVISED PER VT WATER SUPPLY	MEC
02/18/11 – REVISED	MEC
11/29/11 – WATER AND SEWER EASEMENTS ADDED	MEC
03/30/12 – REVISED TO REDUCE WETLAND IMPACT	MEC
08/10/12 – ISSUED FOR PERMITTING	MEC
09/20/12 – REVISED PER TOWN COMMENTS	MEC
07/02/13 – REVISED PRIMITIVE PATH LOCATION	MEC
01/23/14 – REVISED TO REFLECT TURN LANE PLANS	MEC
01/23/15 – REVISED REC. PATH	MEC

Champlain Consulting
ENGINEERS
85 PRIM ROAD, P.O. BOX 453
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STATE OF VERMONT
MARTIN E. COURCELLE
NO. 8745
CIVIL
LICENSED
PROFESSIONAL ENGINEER
[signature]

ESSEX ALLIANCE CHURCH
ROUTE 2A / ESSEX ROAD
OVERALL UTILITY PLAN
WILLISTON VERMONT

DRAWN	CCE
CHECKED	MEC
SCALE	1" = 100'
DATE	12/15/09
JOB NO.	26141
SHEET	C-4

OF 18 SHEETS

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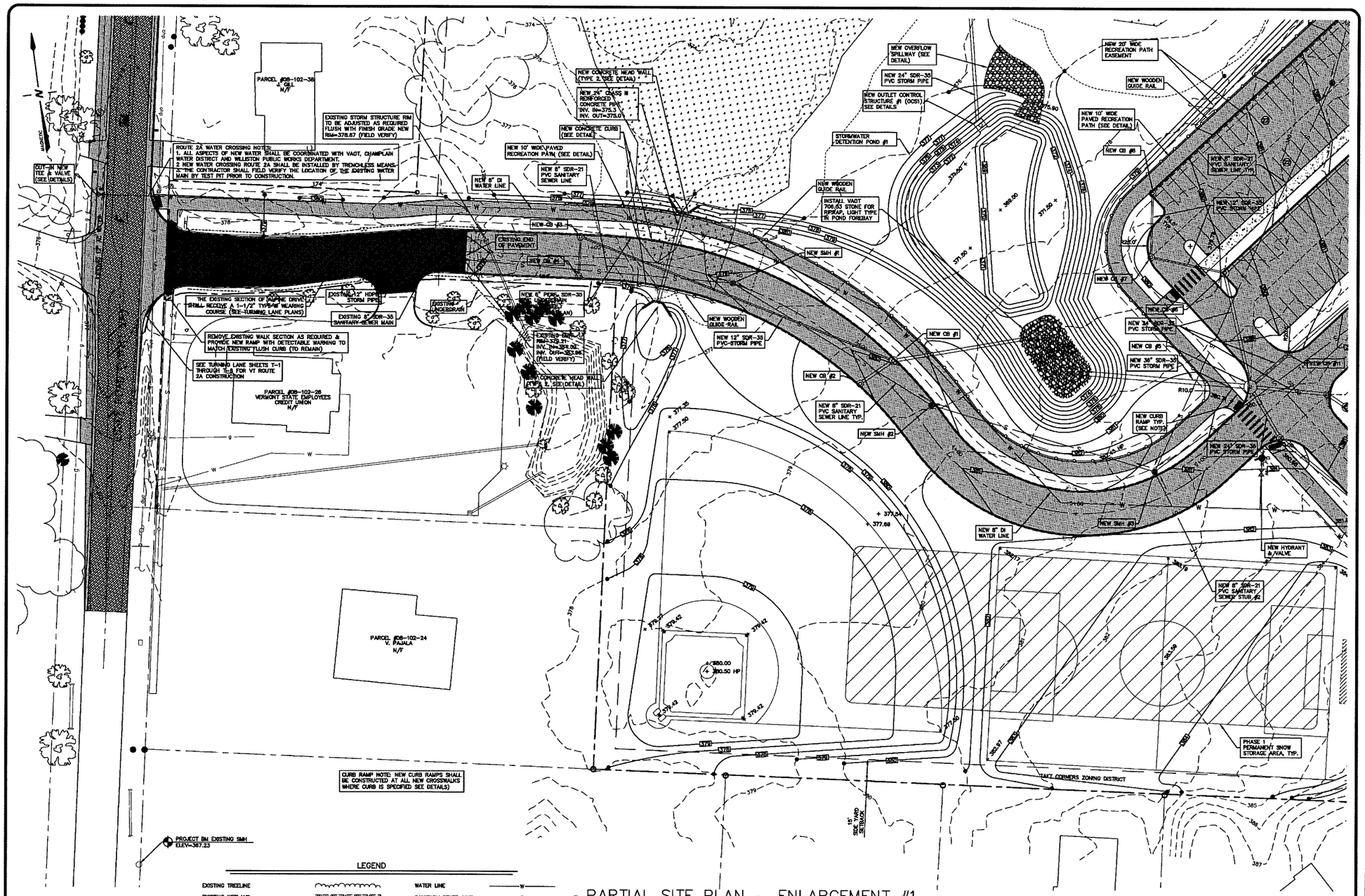

LEGEND

EXISTING TREELINE		WATER LINE	W
EXISTING WETLAND		SANITARY SEWER LINE	S
EXISTING 100 YR FLOOD PLAIN		GAS LINE	G
EXISTING PROPERTY LINE W/ DIMENSION	123'	UNDERGROUND ELECTRIC, CABLE AND TELEPHONE	UE&T
EXISTING CONTOUR	380	STORM LINE	
PROPOSED CONTOUR	379	SPOT ELEVATION	+ 375.50
SANITARY SEWER MANHOLE		STORMWATER CATCH BASIN	
HYDRANT		STORMWATER MANHOLE	
WATER VALVE			

THIS TOPOGRAPHIC SURVEY WAS CONDUCTED WITHOUT THE BENEFIT OF "DIG SAFE" MARKINGS. UTILITIES SHOWN ARE NOT WARRANTED TO BE EXACT OR COMPLETE. THE CONTRACTOR SHALL CONTACT "DIG SAFE" AT 1-888-344-7233 BEFORE COMMENCING ANY WORK AND SHALL PRESERVE EXISTING UTILITIES WHICH ARE NOT PART OF THE DEMOLITION PLAN.

1/C-5 PARTIAL SITE PLAN – ENLARGEMENT #1

SCALE 1" = 30'

Graphic Scale: 30 0 30 60 90 120 feet

APPROVAL SIGNATURE BLOCK

UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BYLAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT DP09-21, THE WILLISTON DEVELOPMENT REVIEW BOARD APPROVED THE FINAL PLANS FOR THE ESSEX ALLIANCE CHURCH ON THE 15 DAY OF APRIL 2015

DEVELOPMENT REVIEW BOARD PRESIDING MEMBER

APPLICATION NO: DP 09-21
TAX PARCEL NO: 8:102:28, 48

PERMIT SET

REVISION DATE & DESCRIPTION	BY
01/15/10 – MODIFIED	MEC
SANITARY SEWER	
02/18/10 – REVISED PER	MEC
TOWN COMMENTS	
05/26/10 – REVISED PER VT	MEC
WATER SUPPLY	
02/18/11 – REVISED	MEC
03/30/12 – REVISED TO	
REDUCE WETLAND	
IMPACT	MEC
09/19/12 – ISSUED FOR	
PERMITTING	MEC
09/20/12 – REVISED PER	
TOWN COMMENTS	MEC
01/23/14 – REVISED TO REFLECT	
TURN LANE PLANS	MEC

Champlain Consulting ENGINEERS
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STATE OF VERMONT MARK E. CONNELLY NO. 8745 CIVIL LICENSED PROFESSIONAL ENGINEER

ESSEX ALLIANCE CHURCH
ROUTE 2A / ESSEX ROAD
PARTIAL SITE PLAN
ENLARGEMENT #1

WILLISTON VERMONT

DRAWN	CCE
CHECKED	MEC
SCALE	1" = 30'
DATE	12/15/09
JOB NO.	26141
SHEET	C-5

OF 18 SHEETS

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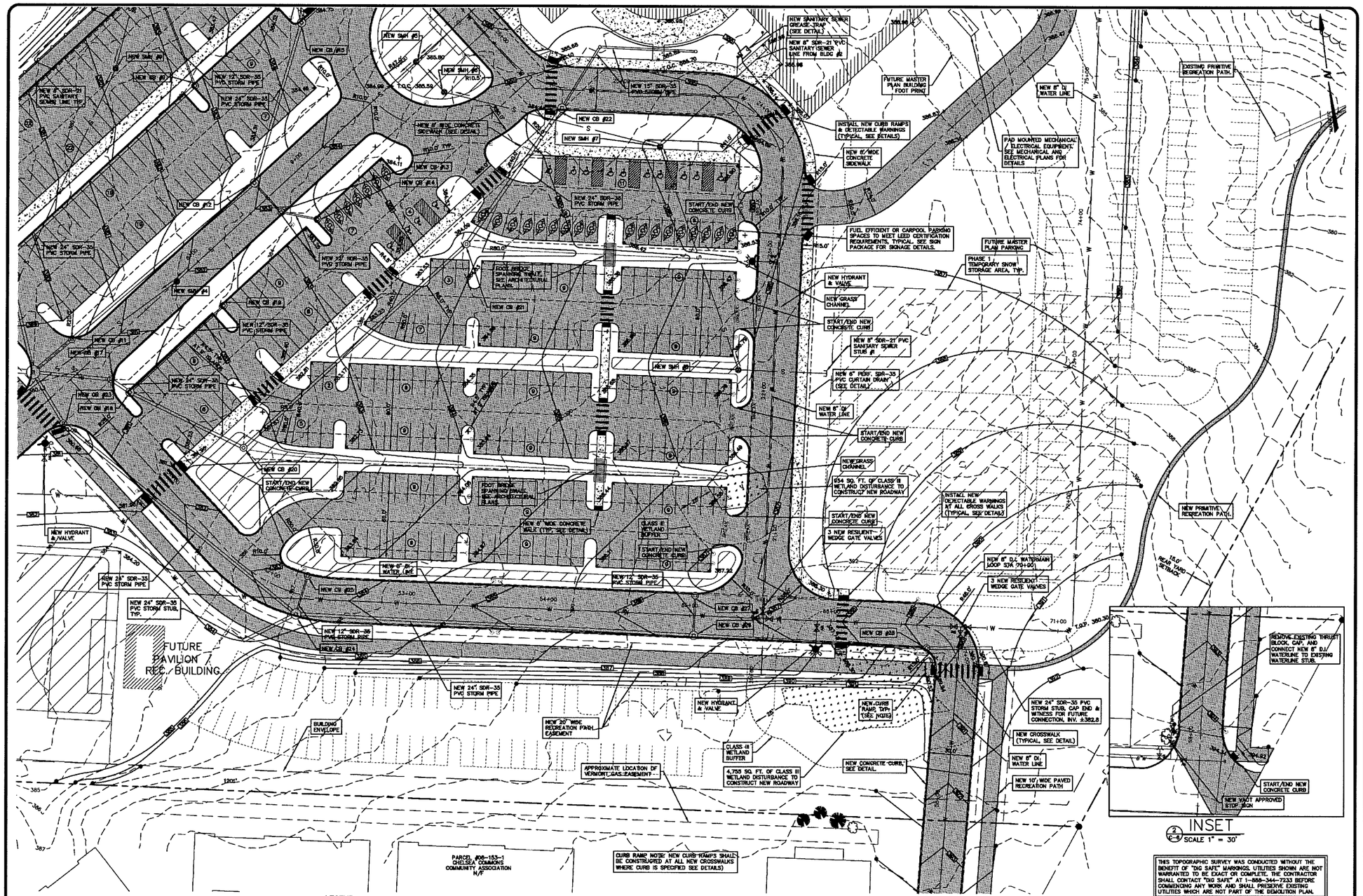

INSET
2 / C-5 SCALE 1" = 30'

THIS TOPOGRAPHIC SURVEY WAS CONDUCTED WITHOUT THE BENEFIT OF "DIG SAFE" MARKINGS. UTILITIES SHOWN ARE NOT WARRANTED TO BE EXACT OR COMPLETE. THE CONTRACTOR SHALL CONTACT "DIG SAFE" AT 1-888-344-7233 BEFORE COMMENCING ANY WORK AND SHALL PRESERVE EXISTING UTILITIES WHICH ARE NOT PART OF THE DEMOLITION PLAN.

LEGEND

EXISTING TREELINE		EXISTING CONTOUR	380	GAS LINE	G
EXISTING WETLAND		PROPOSED CONTOUR	378	UNDERGROUND ELECTRIC, CABLE AND TELEPHONE	UE&T
EXISTING 100 YR FLOOD PLAIN		WATER LINE	W	STORM LINE	
EXISTING PROPERTY LINE W/ DIMENSION	147'	SANITARY SEWER LINE	S	SPOT ELEVATION	+ 375.50
EXISTING ZONING DISTRICT BOUNDARY		HYDRANT		STORMWATER CATCH BASIN	
SANITARY SEWER MANHOLE	S	WATER VALVE	W	STORMWATER MANHOLE	

PARTIAL SITE PLAN ENLARGEMENT #2

1 / C-5 SCALE 1" = 30'

Graphic Scale
30 0 30 60 90 120 feet

APPROVAL SIGNATURE BLOCK

UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BYLAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT DP09-21, THE WILLISTON DEVELOPMENT REVIEW BOARD APPROVED THE FINAL PLANS FOR THE ESSEX ALLIANCE CHURCH ON THIS 22 DAY OF June 2015

DEVELOPMENT REVIEW BOARD PRESIDING MEMBER

APPLICATION NO: DP 09-21
TAX PARCEL NO: 8:102:28, 48

PERMIT SET

REVISION DATE & DESCRIPTION	BY
01/15/10 - MODIFIED SANITARY SEWER	MEC
02/16/10 - REVISED PER TOWN COMMENTS	MEC
05/28/10 - REVISED PER VT WATER SUPPLY	MEC
02/08/11 - REVISED	MEC
03/30/12 - REVISED TO REDUCE WETLAND IMPACT	MEC
06/10/12 - ISSUED FOR PERMITTING	MEC
08/20/12 - REVISED PER TOWN COMMENTS	MEC
07/02/13 - REVISED PRIMITIVE PATH LOCATION	MEC

Champlain Consulting ENGINEERS
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STATE OF VERMONT
MARK E. CONCELLE
NO. 8745
CIVIL
LICENSED
PROFESSIONAL ENGINEER

ESSEX ALLIANCE CHURCH
ROUTE 2A / ESSEX ROAD
PARTIAL SITE PLAN
ENLARGEMENT #2
WILLISTON VERMONT

DRAWN	CCE
CHECKED	MEC
SCALE	1" = 30'
DATE	12/15/09
JOB NO.	28141
SHEET	C-6

OF 18 SHEETS

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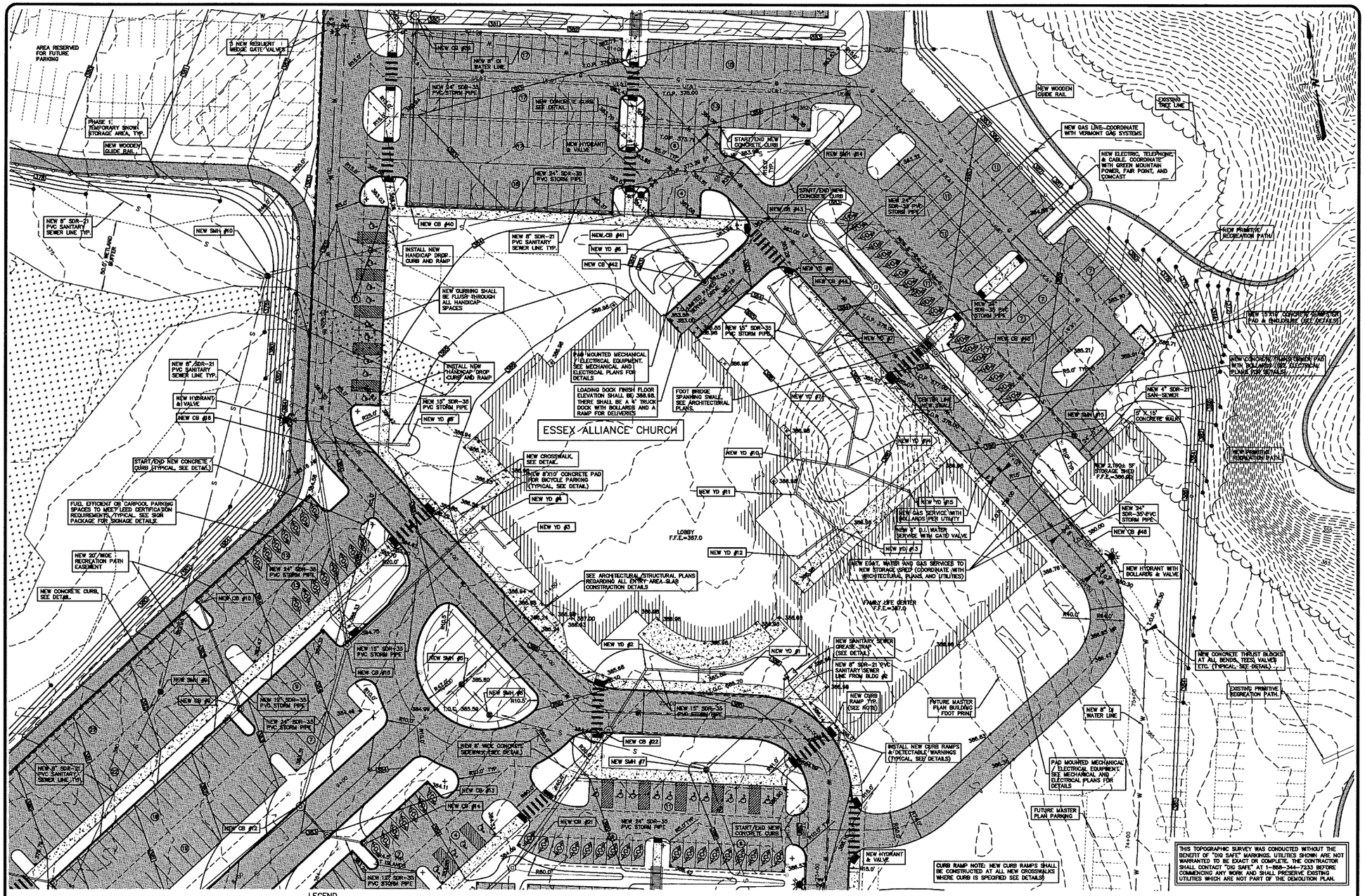

LEGEND

EXISTING TREELINE		EXISTING CONTOUR	380	GAS LINE	G
EXISTING WETLAND		PROPOSED CONTOUR	378	UNDERGROUND ELECTRIC, CABLE AND TELEPHONE	UE&T
EXISTING 100 YR FLOOD PLAIN		WATER LINE	W	STORM LINE	D
EXISTING PROPERTY LINE W/ DIMENSION	127'	SANITARY SEWER LINE	S	SPOT ELEVATION	+ 375.50
EXISTING ZONING DISTRICT BOUNDARY		HYDRANT		STORMWATER CATCH BASIN	
SANITARY SEWER MANHOLE	S	WATER VALVE	W	STORMWATER MANHOLE	D

PARTIAL SITE PLAN ENLARGEMENT #3

1 / C-7

SCALE 1" = 30'

Graphic Scale

30 0 30 60 90 120 feet

APPROVAL SIGNATURE BLOCK

UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BYLAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT DP09-21, THE WILLISTON DEVELOPMENT REVIEW BOARD APPROVED THE FINAL PLANS OF THE ESSEX ALLIANCE CHURCH ON THIS 15 DAY OF May, 20 12.

Ken Belliveau

DEVELOPMENT REVIEW BOARD PRESIDING MEMBER

APPLICATION NO: DP 09-21
TAX PARCEL NO: 8:102:28, 48

PERMIT SET

REVISION DATE & DESCRIPTION	BY
01/15/10 - MODIFIED SANITARY SEWER	MEC
02/16/10 - REVISED PER TOWN COMMENTS	MEC
05/28/10 - REVISED PER VT WATER SUPPLY	MEC
02/16/11 - REVISED	MEC
03/30/12 - REVISED TO REDUCE WETLAND IMPACT	MEC
04/10/12 - ISSUED FOR PERMITTING	MEC
06/20/12 - REVISED PER TOWN COMMENTS	MEC
07/02/12 - REVISED PRIMITIVE PATH LOCATION	MEC

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STATE OF VERMONT MICHAEL C. EMERELLE NO. 8745 CIVIL LICENSED PROFESSIONAL ENGINEER

Michael C. Emerelle

ESSEX ALLIANCE CHURCH
ROUTE 2A / ESSEX ROAD
PARTIAL SITE PLAN
ENLARGEMENT #3
WILLISTON VERMONT

DRAWN	CCE
CHECKED	MEC
SCALE	1" = 30'
DATE	12/15/09
JOB NO.	28141
SHEET	C-7

OF 18 SHEETS

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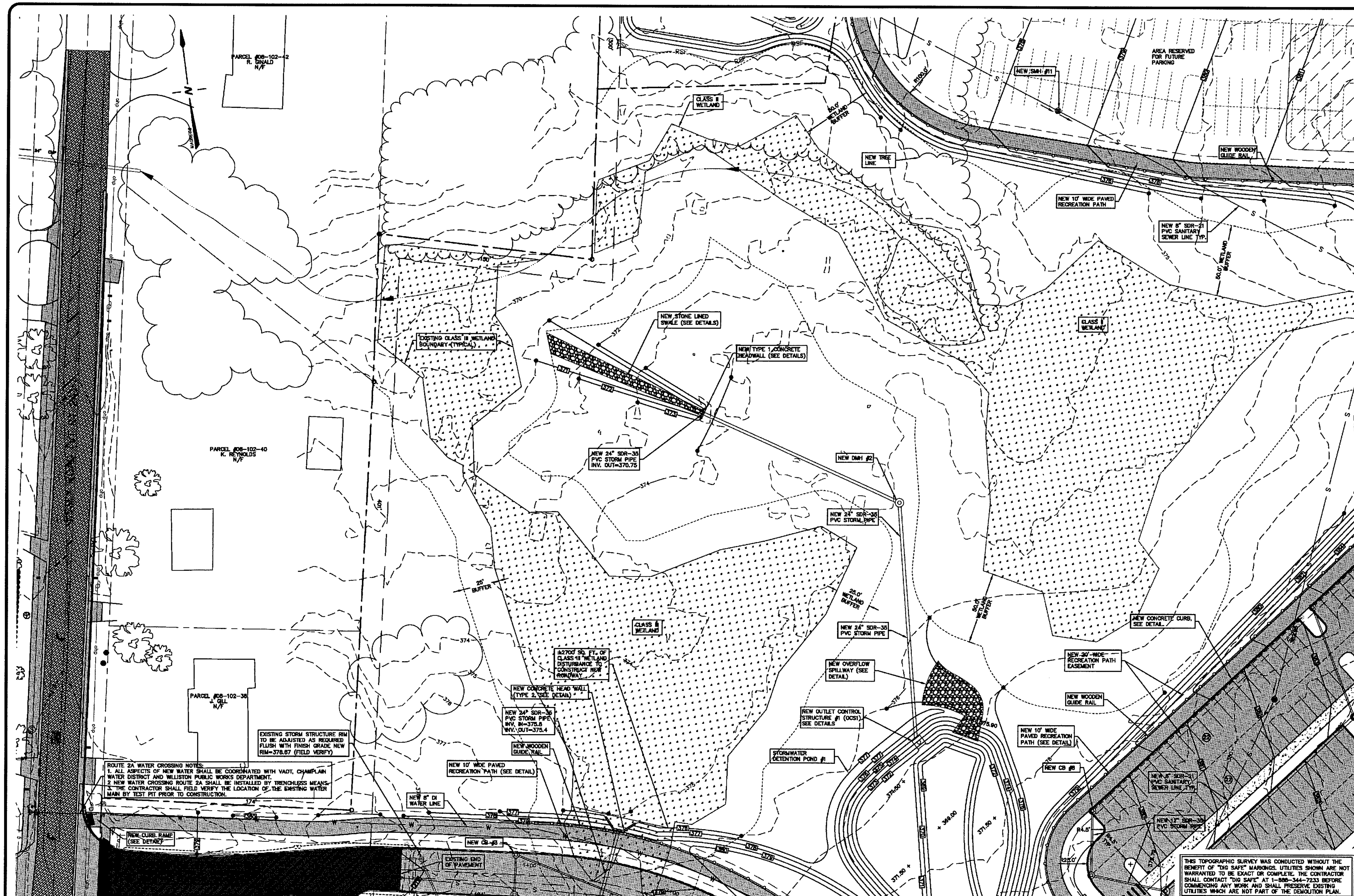

LEGEND

EXISTING TREELINE		EXISTING CONTOUR	--380--	GAS LINE	G
EXISTING WETLAND		PROPOSED CONTOUR	379	UNDERGROUND ELECTRIC, CABLE AND TELEPHONE	UE&T
EXISTING 100 YR FLOOD PLAIN		WATER LINE	W	STORM LINE	
EXISTING PROPERTY LINE W/ DIMENSION	123'	SANITARY SEWER LINE	S	SPOT ELEVATION	+ 375.50
EXISTING ZONING DISTRICT BOUNDARY		HYDRANT		STORMWATER CATCH BASIN	
SANITARY SEWER MANHOLE		WATER VALVE		STORMWATER MANHOLE	

PARTIAL SITE PLAN ENLARGEMENT #4

1 / C-8

SCALE 1" = 30'

Graphic Scale: 30 0 30 60 90 120 feet

APPROVAL SIGNATURE BLOCK

UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BYLAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT DP09-21, THE WILLISTON DEVELOPMENT REVIEW BOARD APPROVED THE FINAL PLANS FOR THE ESSEX ALLIANCE CHURCH ON THE 24 DAY OF AUG 2015

DEVELOPMENT REVIEW BOARD PRESIDING MEMBER

APPLICATION NO: DP 09-21
TAX PARCEL NO: 8:102:28, 48

PERMIT SET

REVISION DATE & DESCRIPTION	BY
01/15/10 – MODIFIED SANITARY SEWER	MEC
02/19/10 – REVISED PER TOWN COMMENTS	MEC
05/28/10 – REVISED PER VT WATER SUPPLY	MEC
02/18/11 – REVISED	MEC
03/30/12 – REVISED TO REDUCE WETLAND IMPACT	MEC
09/10/12 – ISSUED FOR PERMITTING	MEC
09/20/12 – REVISED PER TOWN COMMENTS	MEC
01/23/14 – REVISED TO REFLECT TURN LANE PLANS	MEC

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STATE OF VERMONT
MARTIN E. COUNCELLE
NO. 8745
CIVIL
LICENSED
PROFESSIONAL ENGINEER

ESSEX ALLIANCE CHURCH
ROUTE 2A / ESSEX ROAD
PARTIAL SITE PLAN
ENLARGEMENT #4
WILLISTON VERMONT

DRAWN	CCE
CHECKED	MEC
SCALE	1" = 30'
DATE	12/15/09
JOB NO.	26141
SHEET	C-8

OF 18 SHEETS

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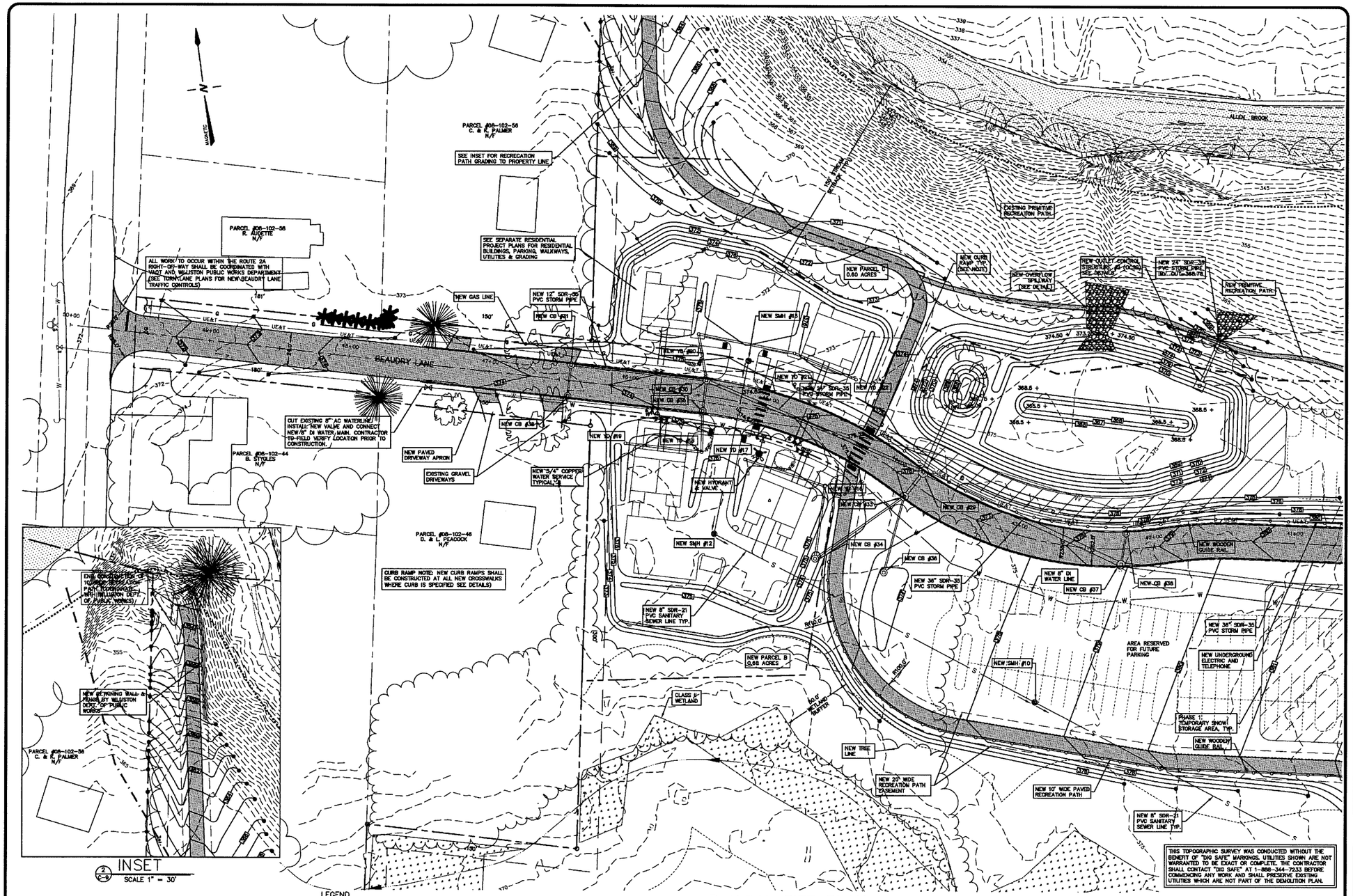

INSET
2 / C-9
SCALE 1" = 30'

LEGEND

EXISTING TREELINE		EXISTING CONTOUR	380	GAS LINE	G
EXISTING WETLAND		PROPOSED CONTOUR	378	UNDERGROUND ELECTRIC, CABLE AND TELEPHONE	UE&T
EXISTING 100 YR FLOOD PLAIN		WATER LINE	W	STORM LINE	D
EXISTING PROPERTY LINE W/ DIMENSION	12'X'	SANITARY SEWER LINE	S	SPOT ELEVATION	+ 375.50
EXISTING ZONING DISTRICT BOUNDARY		HYDRANT		STORMWATER CATCH BASIN	D
SANITARY SEWER MANHOLE	S	WATER VALVE	W	STORMWATER MANHOLE	D

PARTIAL SITE PLAN
ENLARGEMENT #5
1 / C-9
SCALE 1" = 30'

Graphic Scale
30 0 30 60 90 120 feet

APPROVAL SIGNATURE BLOCK

UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BYLAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT DP09-21, THE WILLISTON DEVELOPMENT REVIEW BOARD APPROVED THE FINAL PLANS FOR THE ESSEX ALLIANCE CHURCH ON THE 22 DAY OF 12 20 15

DEVELOPMENT REVIEW BOARD PRESIDING MEMBER

APPLICATION NO: DP 09-21
TAX PARCEL NO: 8:102:28, 48

PERMIT SET

REVISION DATE & DESCRIPTION	BY
02/10/10 - REVISED PER TOWN COMMENTS	MEC
06/08/10 - REVISED PER VT WATER SUPPLY	MEC
02/18/11 - REVISED	MEC
03/30/12 - REVISED TO REDUCE WETLAND IMPACT	MEC
06/10/12 - ISSUED FOR PERMITTING	MEC
08/20/12 - REVISED PER TOWN COMMENTS	MEC
07/02/13 - REVISED PRIMITIVE PATH LOCATION	MEC
01/23/14 - REVISED TO REFLECT TOWN LANE PLANS	MEC
01/23/15 - REVISED REC. PATH	MEC

Champlain Consulting ENGINEERS
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STATE OF VERMONT
MARK E. CORNELLE
NO. 8745
CIVIL
LICENSED
PROFESSIONAL ENGINEER

ESSEX ALLIANCE CHURCH
ROUTE 2A / ESSEX ROAD
PARTIAL SITE PLAN
ENLARGEMENT #5
WILLISTON VERMONT

DRAWN	CCE
CHECKED	MEC
SCALE	1" = 30'
DATE	12/15/09
JOB NO.	26141
SHEET	C-9

OF 18 SHEETS

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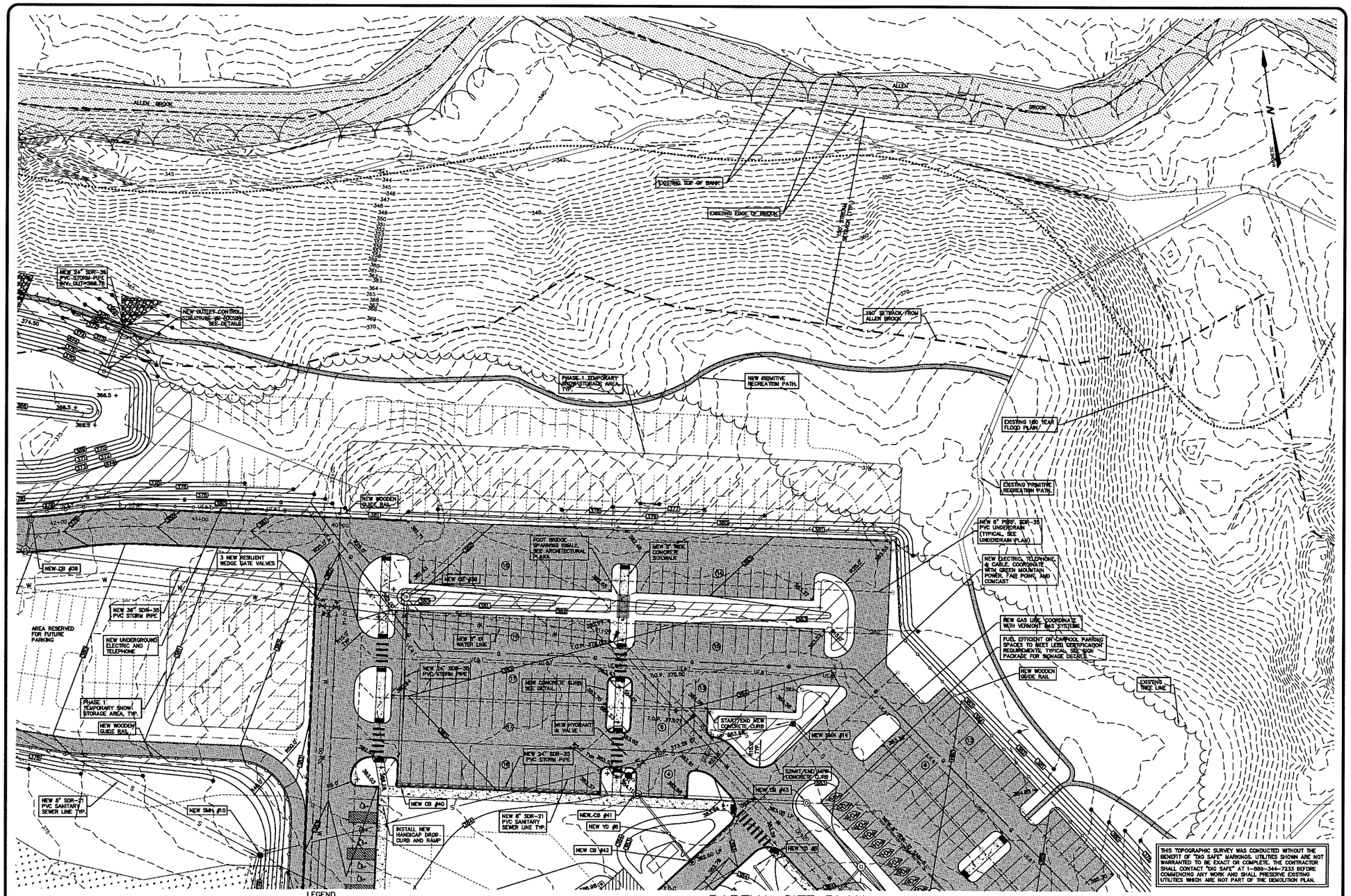

LEGEND

EXISTING TREELINE		EXISTING CONTOUR	380	GAS LINE	G
EXISTING WETLAND		PROPOSED CONTOUR	378	UNDERGROUND ELECTRIC, CABLE AND TELEPHONE	UE&T
EXISTING 100 YR FLOOD PLAIN		WATER LINE	W	STORM LINE	
EXISTING PROPERTY LINE W/ DIMENSION	123'	SANITARY SEWER LINE	S	SPOT ELEVATION	+ 375.50
EXISTING ZONING DISTRICT BOUNDARY		HYDRANT		STORMWATER CATCH BASIN	
SANITARY SEWER MANHOLE		WATER VALVE		STORMWATER MANHOLE	

PARTIAL SITE PLAN ENLARGEMENT #6

C-10

SCALE 1" = 30'

Graphic Scale

30 0 30 60 90 120 feet

APPROVAL SIGNATURE BLOCK

UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BYLAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT DP09-21, THE WILLISTON DEVELOPMENT REVIEW BOARD APPROVED THE FINAL PLANS FOR THE ESSEX ALLIANCE CHURCH ON THE 25 DAY OF APRIL 20 15

DEVELOPMENT REVIEW BOARD PRESIDING MEMBER

APPLICATION NO: DP 09-21
TAX PARCEL NO: 8:102:28, 48

PERMIT SET

REVISION DATE & DESCRIPTION	BY
01/15/10 - MODIFIED SANITARY SEWER	MEC
02/19/10 - REVISED PER TOWN COMMENTS	MEC
03/26/10 - REVISED PER VT WATER SUPPLY	MEC
02/18/11 - REVISED	MEC
03/30/12 - REVISED TO REDUCE WETLAND IMPACT	MEC
06/10/12 - ISSUED FOR PERMITTING	MEC
07/02/13 - REVISED PRIMITIVE PATH LOCATION	MEC

Champlain Consulting ENGINEERS
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STATE OF VERMONT MARK E. CORRELL NO. 8745 CIVIL LICENSED PROFESSIONAL ENGINEER

ESSEX ALLIANCE CHURCH
ROUTE 2A / ESSEX ROAD
PARTIAL SITE PLAN
ENLARGEMENT #6
WILLISTON VERMONT

DRAWN	CCE
CHECKED	MEC
SCALE	1" = 30'
DATE	12/15/09
JOB NO.	26141
SHEET	C-10

OF 18 SHEETS

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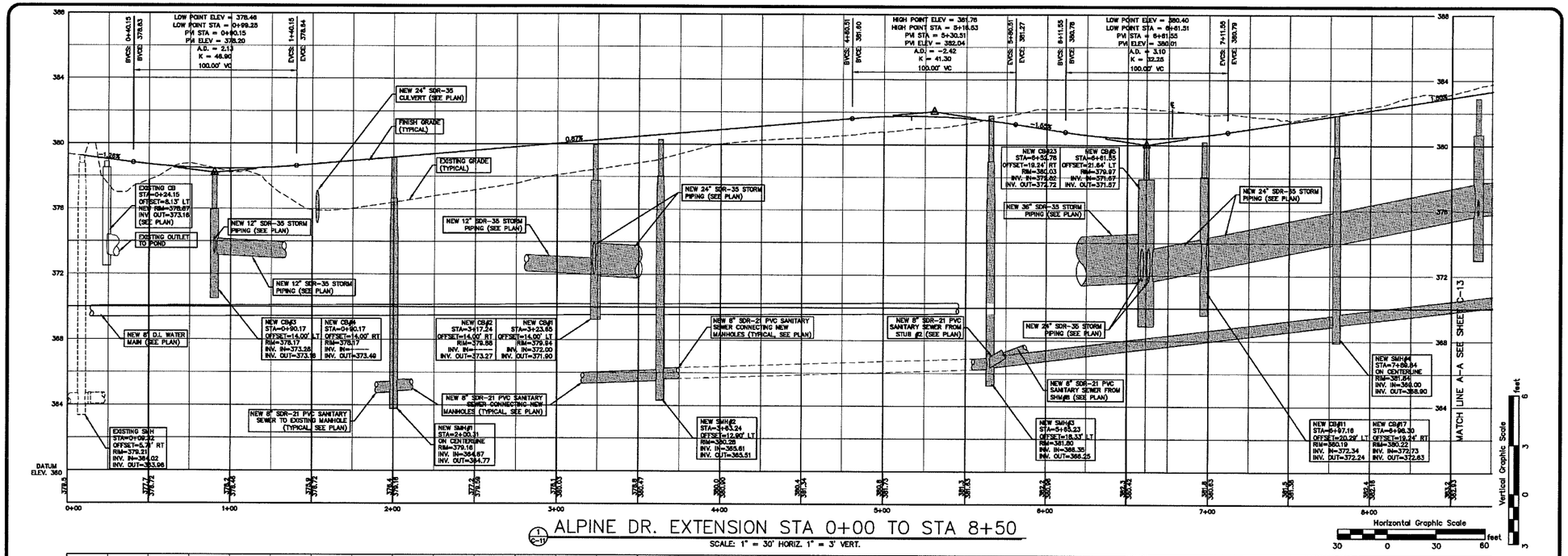
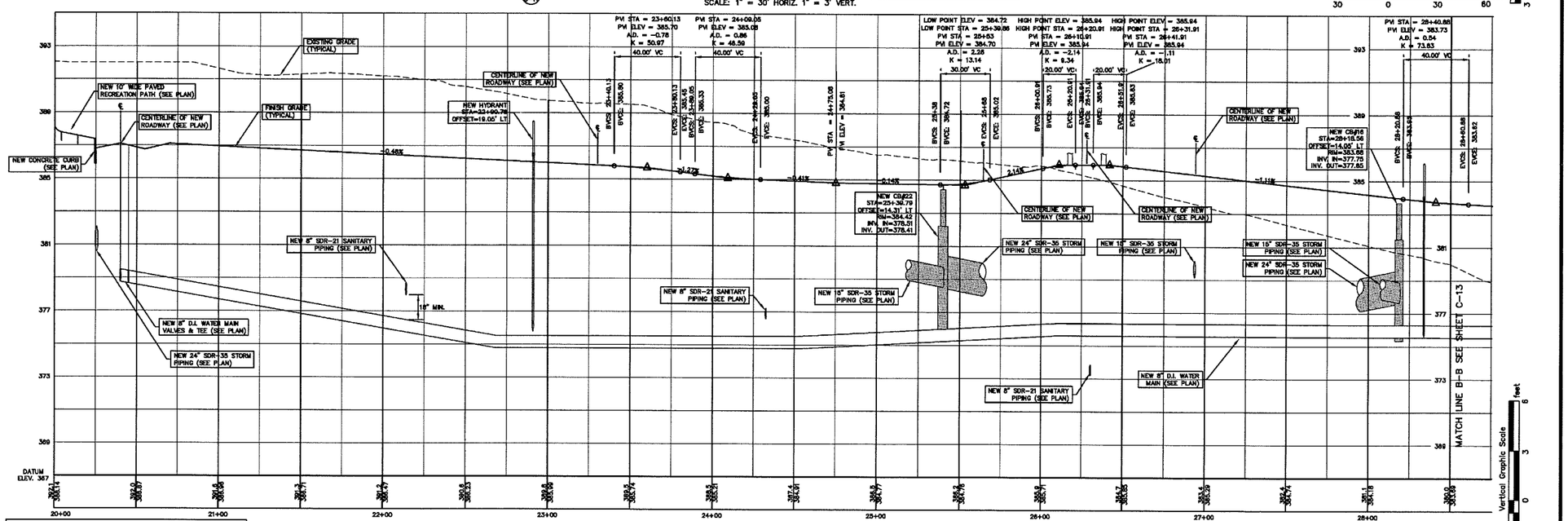


1 C-11 ALPINE DR. EXTENSION STA 0+00 TO STA 8+50

SCALE: 1" = 30' HORIZ. 1" = 3' VERT.



2 C-11 PERIMETER DR. STA 20+00 TO STA 28+50

SCALE: 1" = 30' HORIZ. 1" = 3' VERT.

APPROVAL SIGNATURE BLOCK

UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BYLAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT DP09-21, THE WILLISTON DEVELOPMENT REVIEW BOARD APPROVED THE FINAL PLANS FOR THE ESSEX ALLIANCE CHURCH ON THE _____ DAY OF _____, 20__.

DEVELOPMENT REVIEW BOARD PRESIDING MEMBER

APPLICATION NO: DP 09-21
TAX PARCEL NO: 8:102:28, 48

PERMIT SET

REVISION DATE & DESCRIPTION	BY
01/15/10 - MODIFIED SANITARY SEWER	MEC
02/16/10 - REVISED PER TOWN COMMENTS	MEC
02/18/11 - REVISED	MEC
03/30/12 - REVISED TO REDUCE WETLAND IMPACT	MEC
08/10/12 - ISSUED FOR PERMITTING	MEC

Champlain Consulting ENGINEERS
85 PRIM ROAD, P.O. BOX 453
COLCHESTER, VERMONT 05446
(802) 863-8060 - 864-1878 FAX

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STATE OF VERMONT MARK E. CONSOLE NO. 8745 CIVIL LICENSED PROFESSIONAL ENGINEER

ESSEX ALLIANCE CHURCH
ROUTE 2A / ESSEX ROAD
ROAD PROFILES
WILLISTON VERMONT

DRAWN	CCE
CHECKED	MEC
SCALE	AS SHOWN
DATE	12/15/09
JOB NO.	26141
SHEET	C-11

OF 18 SHEETS

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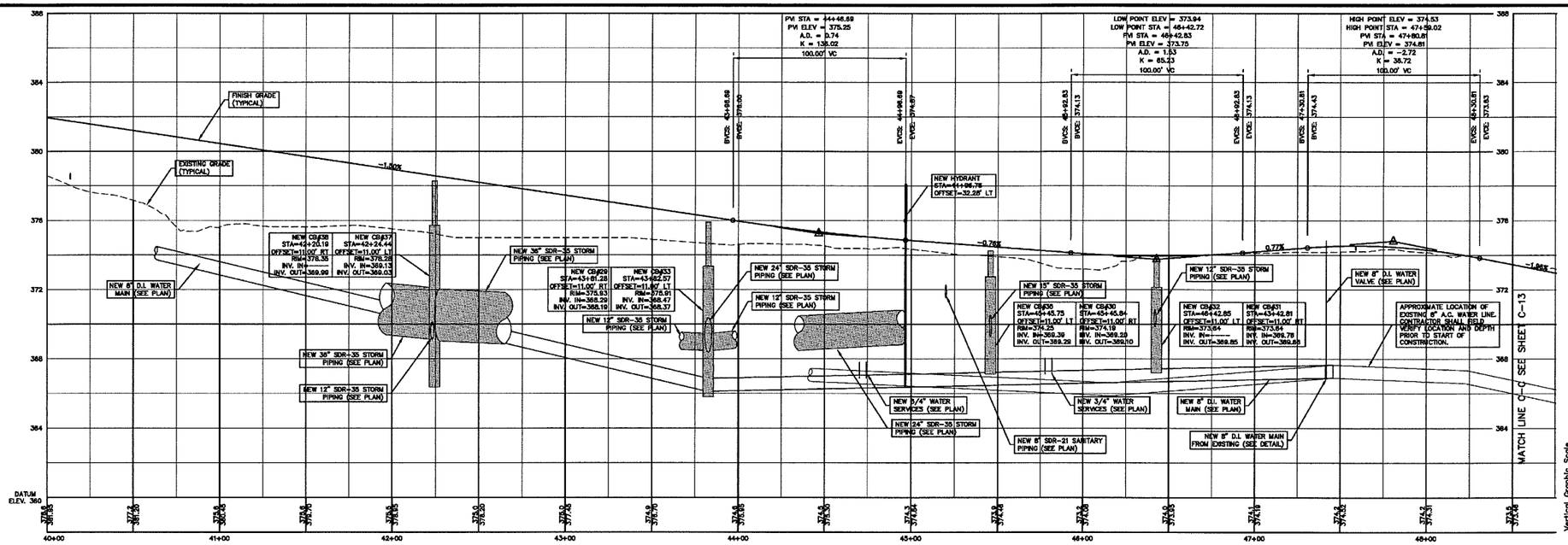
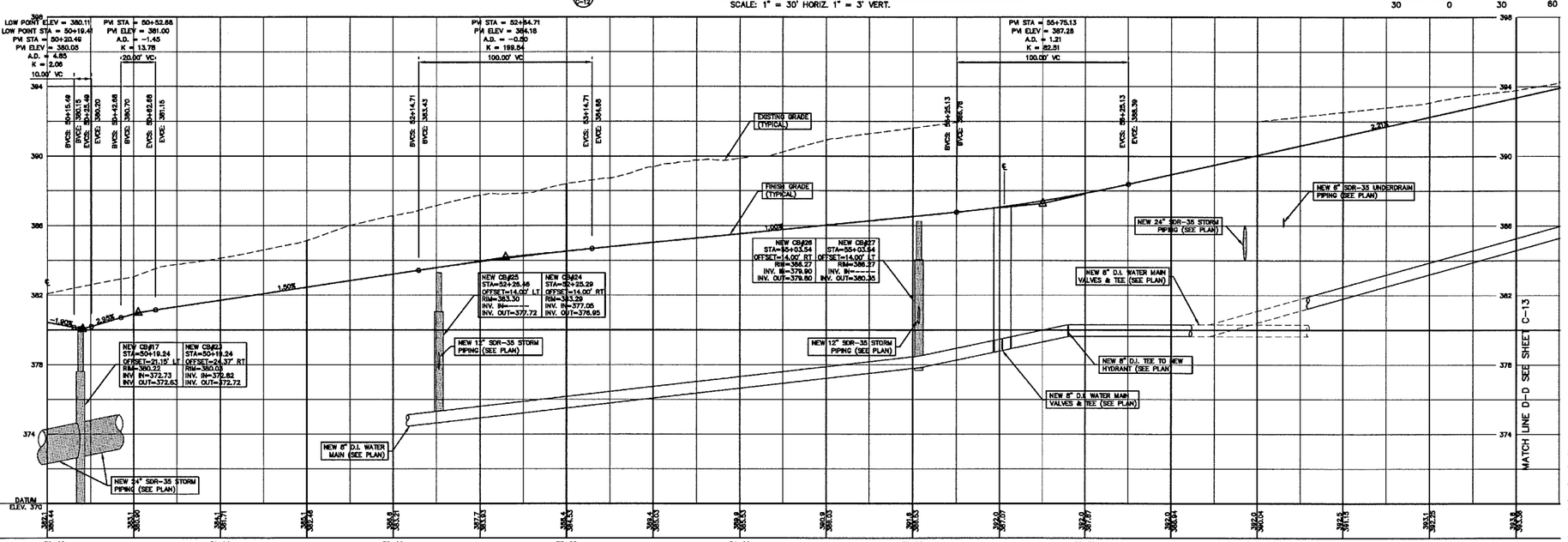


1 C-12 BEAUDRY LN. STA 40+00 TO STA 48+50

SCALE: 1" = 30' HORIZ. 1" = 3' VERT.



2 C-12 ALPINE DR. EXTENSION TO CHELSEA PL. STA 50+00 TO STA 58+50

SCALE: 1" = 30' HORIZ. 1" = 3' VERT.

APPROVAL SIGNATURE BLOCK

UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BYLAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT DP09-21, THE WILLISTON DEVELOPMENT REVIEW BOARD APPROVED THE FINAL PLANS FOR THE ESSEX ALLIANCE CHURCH ON THE [illegible] DAY OF [illegible]

DEVELOPMENT REVIEW BOARD PRESIDING MEMBER

APPLICATION NO: DP 09-21
TAX PARCEL NO: 8:102:28, 48

PERMIT SET

REVISION DATE & DESCRIPTION	BY
01/15/10 - MODIFIED SANITARY SEWER	MEC
02/18/10 - REVISED FOR TOWN COMMENTS	MEC
02/18/11 - REVISED	MEC
03/30/12 - REVISED TO REDUCE WETLAND IMPACT	MEC
09/10/12 - ISSUED FOR PERMITTING	MEC

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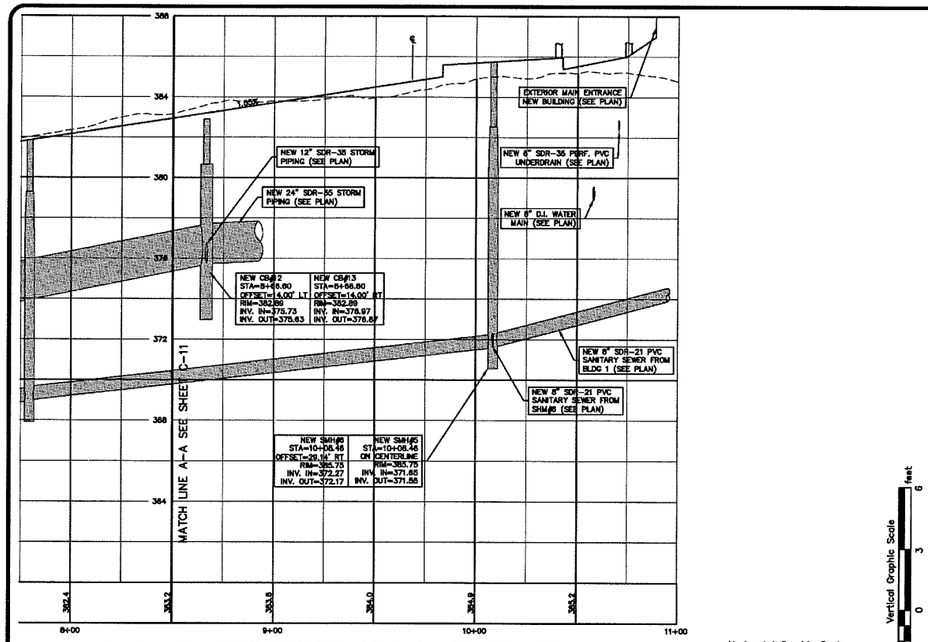
STATE OF VERMONT
MARTIN E. COUCELLE
NO. 8745
CIVIL
LICENSED
PROFESSIONAL ENGINEER

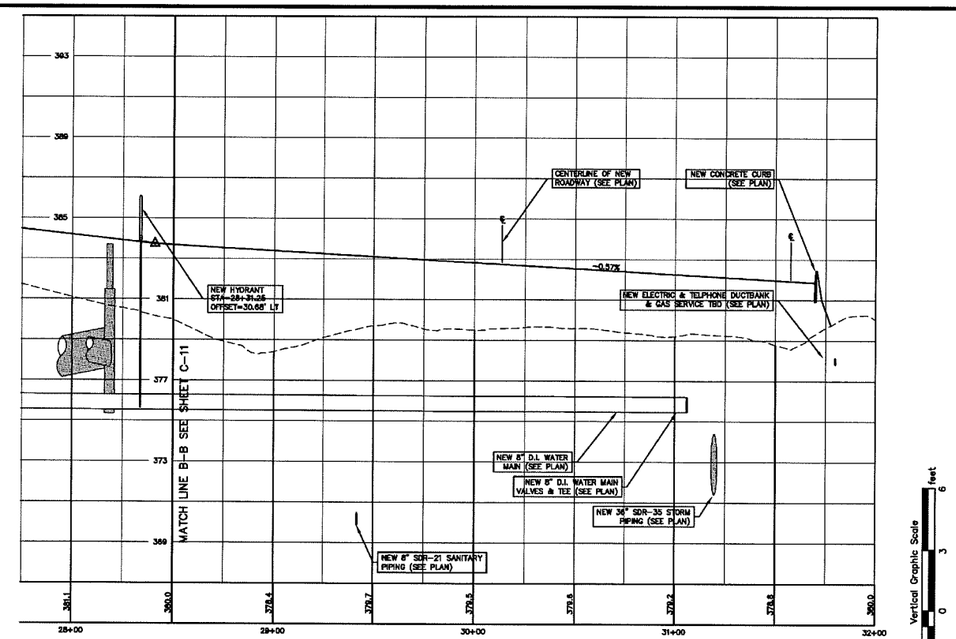
ESSEX ALLIANCE CHURCH
ROUTE 2A / ESSEX ROAD
ROAD PROFILES
WILLISTON VERMONT

DRAWN CCE
CHECKED MEC
SCALE AS SHOWN
DATE 12/15/09
JOB NO. 26141
SHEET C-12
OF 18 SHEETS



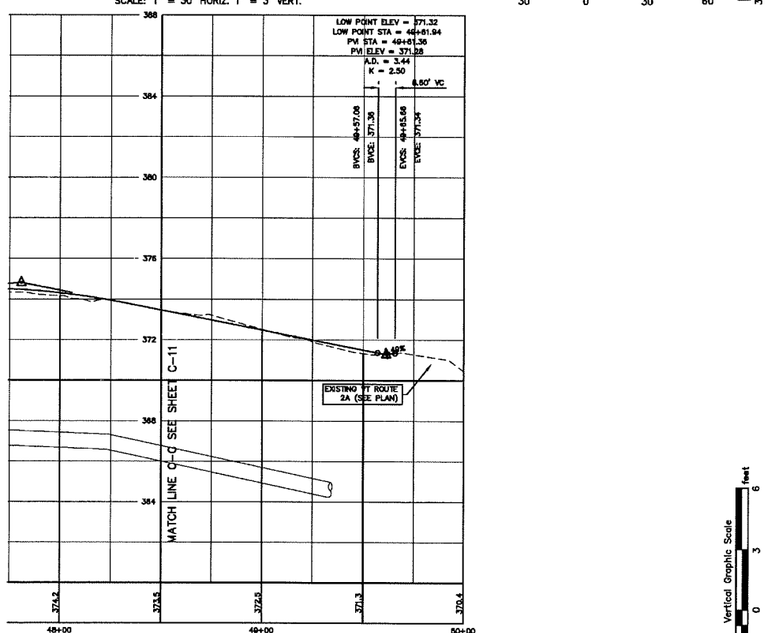
1 C-13 ALPINE DR. EXTENSION STA 8+50 TO STA 11+00

SCALE: 1" = 30' HORIZ. 1" = 3' VERT.



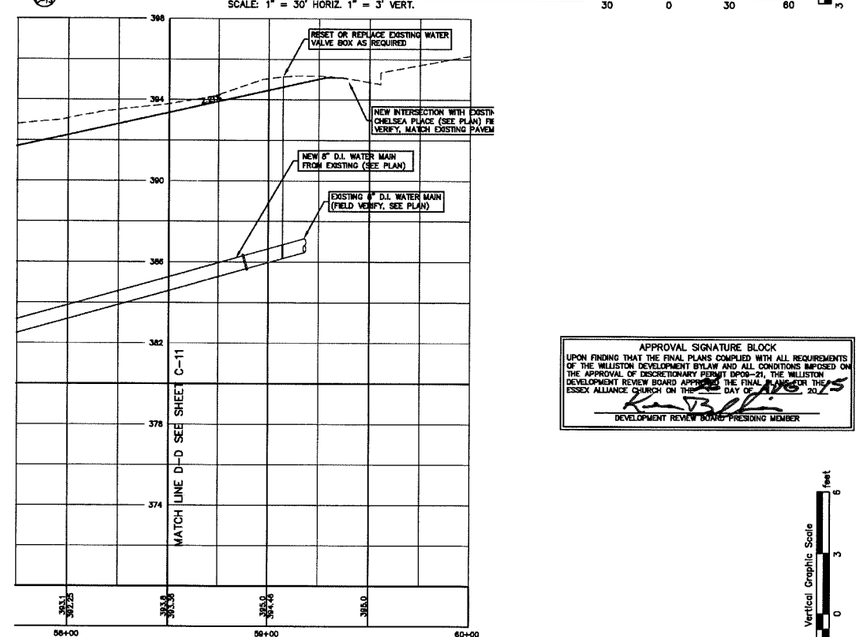
2 C-13 PERIMETER DR. STA 28+50 TO STA 32+00

SCALE: 1" = 30' HORIZ. 1" = 3' VERT.



3 C-13 BEAUDRY LN. STA 48+50 TO STA 50+00

SCALE: 1" = 30' HORIZ. 1" = 3' VERT.



4 C-13 ALPINE DR. TO CHELSEA PL STA 58+50 TO STA 60+00

SCALE: 1" = 30' HORIZ. 1" = 3' VERT.

APPROVAL SIGNATURE BLOCK

UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BYLAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT DP09-21, THE WILLISTON DEVELOPMENT REVIEW BOARD APPROVED THE FINAL PLANS FOR THE ESSEX ALLIANCE CHURCH ON THE [illegible] DAY OF [illegible], 20[illegible]

DEVELOPMENT REVIEW BOARD PRESIDING MEMBER

APPLICATION NO: DP 09-21
TAX PARCEL NO: 8:102:28, 48

PERMIT SET

REVISION DATE & DESCRIPTION	BY
01/15/10 - MODIFIED SANITARY SEWER	MEC
02/18/10 - REVISED PER TOWN COMMENTS	MEC
02/18/11 - REVISED	MEC
03/30/12 - REVISED TO REDUCE WETLAND IMPACT	MEC
08/10/12 - ISSUED FOR PERMITTING	MEC

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STATE OF VERMONT
MARTIN E. CONNELLY
NO. 8745
CIVIL
LICENSED
PROFESSIONAL ENGINEER

ESSEX ALLIANCE CHURCH
ROUTE 2A / ESSEX ROAD
ROAD PROFILES
WILLISTON VERMONT

DRAWN	CCE
CHECKED	MEC
SCALE	AS SHOWN
DATE	12/15/09
JOB NO.	26141
SHEET	C-13

OF 18 SHEETS

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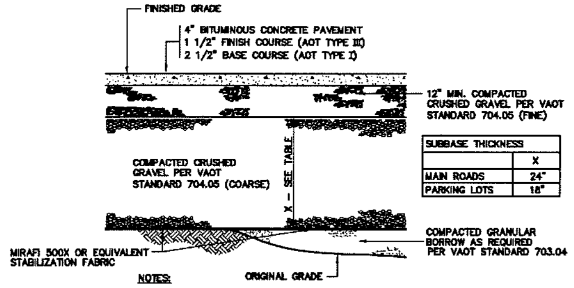


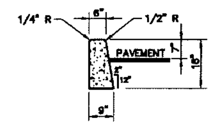
SUBBASE THICKNESS	
	X
MAIN ROADS	24"
PARKING LOTS	18"

NOTES:

1) MATERIAL TYPE AND DEPTH IS SUBJECT TO CHANGE BASED ON SITE SPECIFIC RECOMMENDATIONS MADE BY THE PROJECT GEOTECHNICAL ENGINEER AND PUBLIC WORKS DEPARTMENT.

2) THE NATIVE SOILS SHOULD NOT BE STRIPPED OF TOPSOIL/OVERBURDEN SOILS FOR EXTENDED PERIODS OF TIME AND SURFACE WATER SHALL BE DIRECTED AWAY FROM ALL EXCAVATED AREAS. IF THE NATIVE SOILS GET WET THEY ARE SUSCEPTIBLE TO DESTABILIZATION. IF THE NATIVE SOILS ARE WET AND DESTABILIZED THE CONTRACTOR SHALL OVER EXCAVATE 12" AND INSTALL EXTRA SUBBASE MATERIAL – COMPACTED CRUSHED GRAVEL PER VAOT 704.05 (COARSE).

1 (C-14) TYPICAL PAVEMENT SECTION
N.T.S.



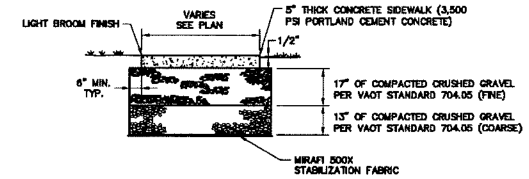
NOTES:

1. CURBING SHALL BE 3,500 PSI PORTLAND CEMENT CONCRETE.

2. CURBING EXPANSION JOINTS SHALL BE CONSTRUCTED EVERY 10' AND SHALL BE CONSTRUCTED OF MATERIAL CONFORMING TO AASHTO DESIGNATION M-153 (1/2" SPONGE RUBBER OR CORK).

3. ALL EXPOSED SURFACES SHALL RECEIVE TWO (2) COATS OF AN APPROVED ANTI-SPALLING COMPOUND.

2 (C-14) CONCRETE CURB DETAIL
N.T.S.



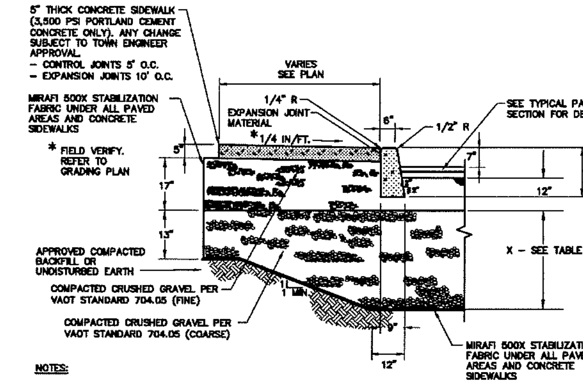
NOTES:

1. MATERIAL TYPE AND DEPTH IS SUBJECT TO CHANGE BASED ON SITE SPECIFIC RECOMMENDATIONS MADE BY THE PROJECT GEOTECHNICAL ENGINEER AND PUBLIC WORKS DEPARTMENT.

2. CONSTRUCT EXPANSION JOINTS EVERY 10' WITH DUMMY JOINTS EVERY 5'.

3. CROSS SLOPE PER PLAN.

3 (C-14) CONCRETE SIDEWALK CROSS-SECTION
N.T.S.



SUBBASE THICKNESS	
	X
MAIN ROADS	24"
PARKING LOTS	18"

NOTES:

1) MATERIAL TYPE AND DEPTH IS SUBJECT TO CHANGE BASED ON SITE SPECIFIC RECOMMENDATIONS MADE BY THE PROJECT GEOTECHNICAL ENGINEER AND PUBLIC WORKS DEPARTMENT.

2) THE NATIVE SOILS SHOULD NOT BE STRIPPED OF TOPSOIL/OVERBURDEN SOILS FOR EXTENDED PERIODS OF TIME AND SURFACE WATER SHALL BE DIRECTED AWAY FROM ALL EXCAVATED AREAS. IF THE NATIVE SOILS GET WET THEY ARE SUSCEPTIBLE TO DESTABILIZATION. IF THE NATIVE SOILS ARE WET AND DESTABILIZED THE CONTRACTOR SHALL OVER EXCAVATE 12" AND INSTALL EXTRA SUBBASE MATERIAL – COMPACTED CRUSHED GRAVEL PER VAOT 704.05 (COARSE).

SIDEWALK & CURB NOTE:
MATERIAL TYPE AND DEPTH IS SUBJECT TO CHANGE BASED ON SITE SPECIFIC RECOMMENDATIONS MADE BY THE PROJECT GEOTECHNICAL ENGINEER AND PUBLIC WORKS DEPARTMENT

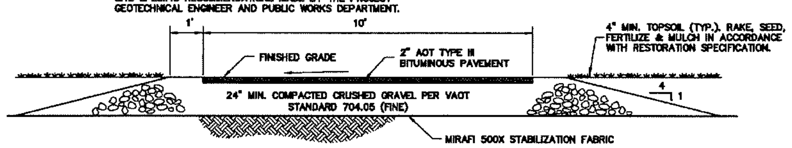
CONSTRUCTION NOTES:

1. REFER TO CONCRETE CURB DETAIL.

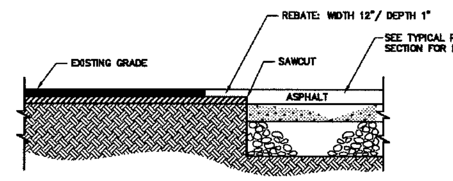
2. ASPHALT TREATED FELT TO BE USED BETWEEN SIDEWALK AND CONCRETE CURB. TOP WITH 1" FLEXIBLE JOINT SEALANT.

4 (C-14) CONCRETE SIDEWALK & CURB DETAIL
N.T.S.

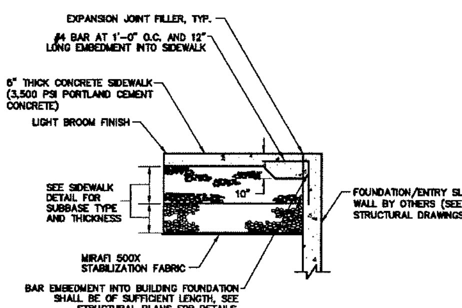
RECREATION PATH SECTION NOTE:
MATERIAL TYPE AND DEPTH IS SUBJECT TO CHANGE BASED ON SITE SPECIFIC RECOMMENDATIONS MADE BY THE PROJECT GEOTECHNICAL ENGINEER AND PUBLIC WORKS DEPARTMENT.



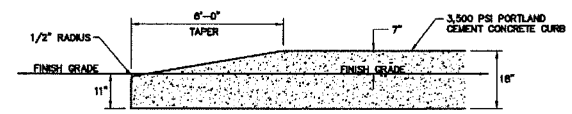
5 (C-14) RECREATION PATH CROSS SECTION
N.T.S.



6 (C-14) TYPICAL SAWCUT/REBATE SECTION
N.T.S.



7 (C-14) CONCRETE SIDEWALK / ENTRY SLAB CONNECTION DETAIL
N.T.S.

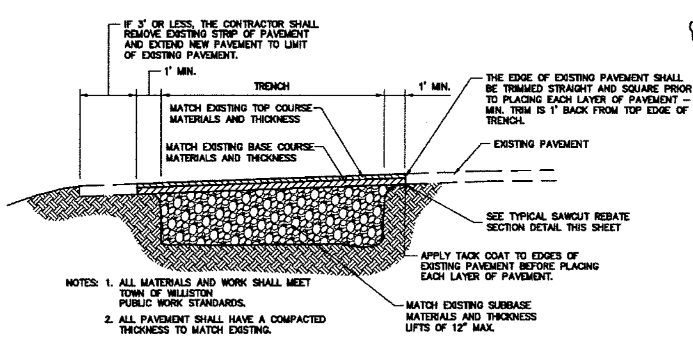


NOTES:

1. SHALL CONFORM TO VAOT STANDARD SHEET C-10

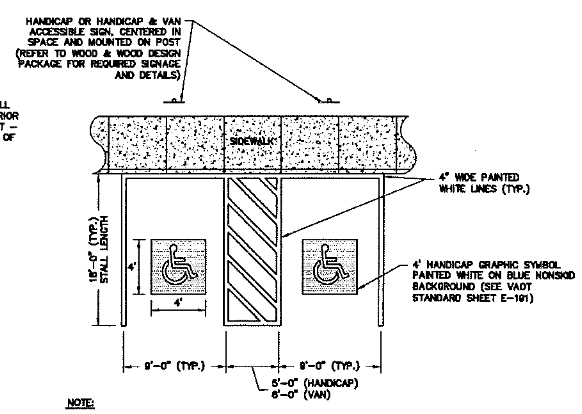
2. ALL EXPOSED SURFACES OF THE SIDEWALK AND CURB SHALL RECEIVE TWO (2) COATS OF AN ANTI-SPALLING COMPOUND

8 (C-14) TYPICAL START / END OF CURB
N.T.S.



NOTES:
1. ALL MATERIALS AND WORK SHALL MEET TOWN OF WILLISTON PUBLIC WORK STANDARDS.
2. ALL PAVEMENT SHALL HAVE A COMPACTED THICKNESS TO MATCH EXISTING.
3. ALL EXISTING ROAD LINES SHALL BE RE-MARKED AS NECESSARY.
4. SHOULDER SHALL BE REPLACED, IF NECESSARY, AS IT EXISTED PRIOR TO CONSTRUCTION.

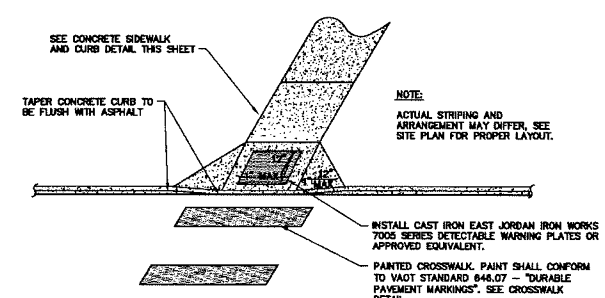
9 (C-14) TYPICAL TRENCH PAVEMENT REPAIR
N.T.S.



NOTE:

ACTUAL STRIPING AND ARRANGEMENT MAY DIFFER, SEE SITE PLAN FOR PROPER LAYOUT.

10 (C-14) ACCESSIBLE SPACE PAVEMENT MARKING
N.T.S.



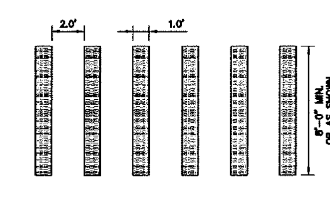
NOTE:

ACTUAL STRIPING AND ARRANGEMENT MAY DIFFER, SEE SITE PLAN FOR PROPER LAYOUT.

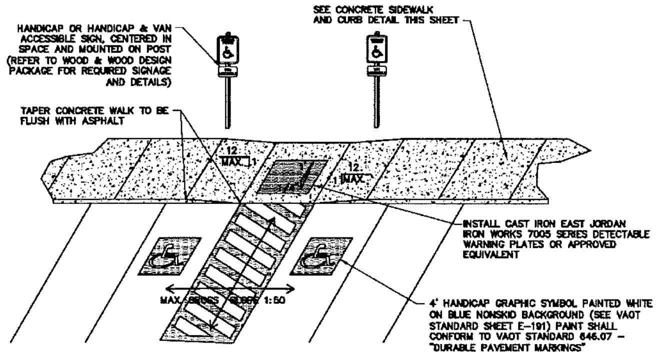
11 (C-14) HANDICAP RAMP/CROSS WALK DETAIL
N.T.S.

NOTES:
1. ACTUAL STRIPING AND ARRANGEMENT MAY DIFFER, SEE SITE PLAN FOR PROPER LAYOUT.

2. PAINT SHALL CONFORM TO VAOT STANDARD 646.07 – "DURABLE PAVEMENT MARKINGS"



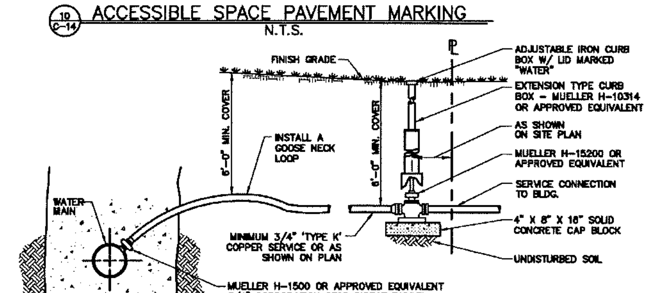
12 (C-14) CROSSWALK DETAIL
N.T.S.



NOTE:

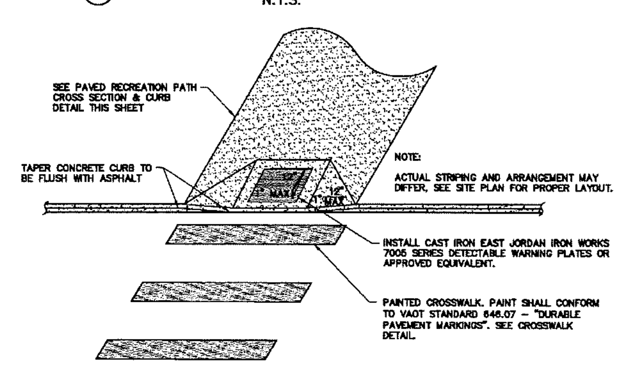
ACTUAL STRIPING AND ARRANGEMENT MAY DIFFER, SEE SITE PLAN FOR PROPER LAYOUT.

13 (C-14) HANDICAP RAMP ADJACENT TO PARKING DETAIL
N.T.S.



NOTES:
1. TEFLON THREAD SEALANT TAPE WILL BE USED ON ALL CORPORATION STOPS PRIOR TO INSERTION.
   A. SPIRAL WRAP COMPLETELY COVERING THE THREAD AREA WITH TWO WRAPS.
   B. PIPE DOPE OR OTHER LIQUID THREAD SEALANTS ARE NOT ACCEPTABLE
2. LEAVE ONE TO THREE THREADS SHOWING OUTSIDE OF PIPE (A TORQUE OF 35 LBS OR LESS IS RECOMMENDED.)
3. CORPORATION STOPS SHALL NOT BE PLACED LESS THAN 1' APART ALONG PIPE.
4. CORPORATION BOXES AND STOPS SHALL NOT BE CONSTRUCTED BENEATH DRIVES OR SIDEWALKS.
5. VALVE ROD AND PINS SHALL BE STAINLESS STEEL.

14 (C-14) TYPICAL CORPORATION STOP/WATER SERVICE DETAIL
N.T.S.



NOTE:

ACTUAL STRIPING AND ARRANGEMENT MAY DIFFER, SEE SITE PLAN FOR PROPER LAYOUT.

15 (C-14) RECREATION PATH HANDICAP RAMP/CROSS WALK DETAIL
N.T.S.

APPROVAL SIGNATURE BLOCK
UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BYLAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT DP09-21, THE WILLISTON DEVELOPMENT REVIEW BOARD APPROVED THE FINAL PLANS FOR THE ESSEX ALLIANCE CHURCH ON THE 25 DAY OF AUG 2015
DEVELOPMENT REVIEW BOARD PRESIDING MEMBER

CONSTRUCTION NOTE
ALL NEW CONSTRUCTION SHALL ADHERE TO THE TOWN OF WILLISTON "PUBLIC WORKS STANDARD SPECIFICATIONS", CURRENT EDITION.

APPLICATION NO: DP 09-21
TAX PARCEL NO: 8:102:28, 48

PERMIT SET

REVISION DATE & DESCRIPTION	BY
02/19/10 – REVISED PER TOWN COMMENTS	MEC
05/26/10 – REVISED PER PUBLIC WORKS	MEC
02/18/11 – REVISED	MEC
03/30/12 – REVISED TO REDUCE WETLAND IMPACT	MEC
09/10/12 – ISSUED FOR PERMITTING	MEC
09/20/12 – REVISED PER TOWN COMMENTS	MEC

Champlain Consulting
ENGINEERS
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STATE OF VERMONT
MARTIN E. COURCELLE
NO. 8745
CIVIL
LICENSED
PROFESSIONAL ENGINEER

ESSEX ALLIANCE CHURCH
ROUTE 2A / ESSEX ROAD
SITE DETAILS
WILLISTON VERMONT

DRAWN	CCE
CHECKED	MEC
SCALE	N.T.S.
DATE	12/15/09
JOB NO.	26141
SHEET	C-14

OF 18 SHEETS

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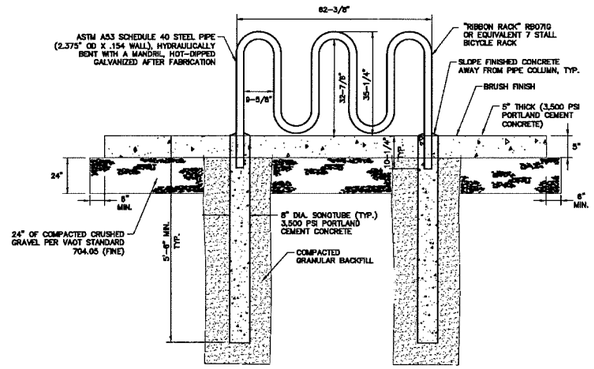
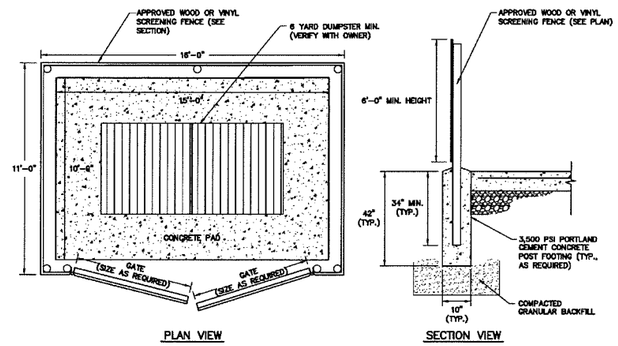


1 C-15 BICYCLE RACK DETAIL
N.T.S.

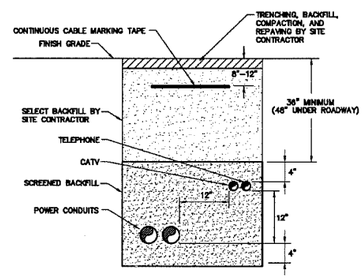


2 C-15 DUMPSTER ENCLOSURE DETAILS
N.T.S.

APPROVAL SIGNATURE BLOCK

UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BYLAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT DP09-21, THE WILLISTON DEVELOPMENT REVIEW BOARD APPROVED THE FINAL PLANS ON THIS ESSEX ALLIANCE CHURCH ON THE 22 DAY OF APRIL 20 12

DEVELOPMENT REVIEW BOARD PRESIDING MEMBER

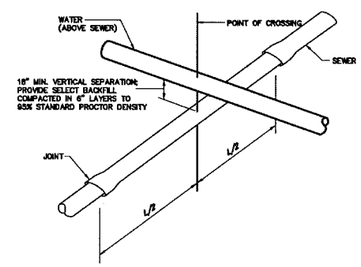


NOTES:

1.THE GENERAL CONTRACTOR SHALL COORDINATE ALL UTILITY WORK WITH GREEN MOUNTAIN POWER FOR ELECTRICAL, FAIRPOINT FOR TELEPHONE AND COMCAST FOR CABLE.

2. ALL EXCAVATION, CONDUIT INSTALLATION AND BACKFILL SHALL BE IN CONFORMANCE WITH GMP DISTRIBUTION STANDARDS. CONTACT THE DISTRICT SUPERINTENDENT AT 802-864-5731 TO OBTAIN COPIES OF THE LATEST STANDARDS AND TO COORDINATE INSPECTION OF WORK PERFORMED BY THE GENERAL CONTRACTOR. INSTALLATION NOT INSPECTED AND APPROVED BY GMP WILL BE EXCAVATED AND REDONE AT THE CONTRACTOR'S EXPENSE.

3 C-15 UNDERGROUND ELECTRIC & TELEPHONE CONDUIT TRENCH DETAIL
N.T.S.

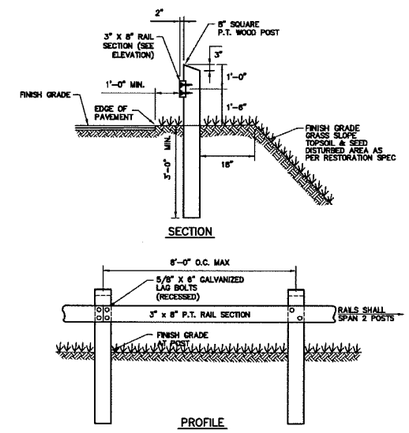


NOTES:

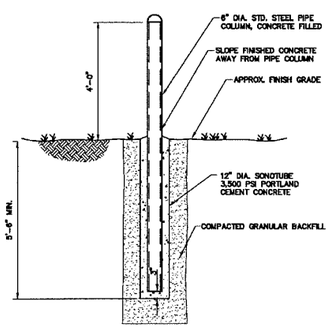
1) IF 18" OF VERTICAL SEPARATION CANNOT BE MAINTAINED REFER TO WATER & SEWER/STORM OFFSET DETAIL.

2) SEWERS CROSSING WATER MAINS SHALL BE LAID BENEATH THE WATER MAIN WITH AT LEAST 18 INCHES VERTICAL CLEARANCE BETWEEN THE OUTSIDE OF THE SEWER PIPE AND THE OUTSIDE OF THE WATER MAIN. THE CROSSING SHALL BE ARRANGED SO THAT ONE FULL LENGTH OF SEWER PIPE IS CENTERED BELOW THE WATER LINE WITH SEWER JOINTS AS FAR AS POSSIBLE FROM WATER JOINTS.

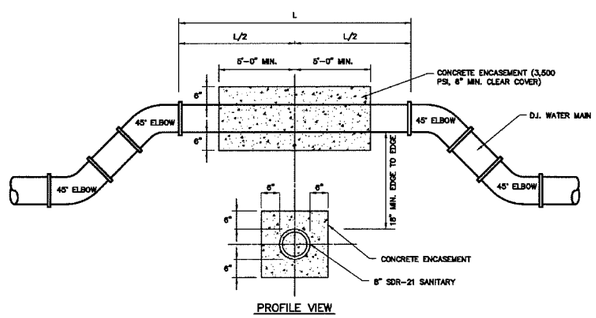
TYPICAL
4 C-15 WATER & SEWER/STORM CROSSING DETAIL
N.T.S.



5 C-15 WOODEN GUIDE RAIL DETAILS
N.T.S.



6 C-15 EXTERIOR BOLLARD
N.T.S.

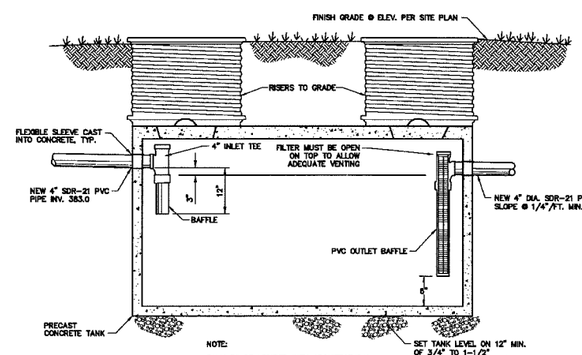


NOTES:

1) IF 18" OF VERTICAL SEPARATION CAN BE MAINTAINED REFER TO WATER & SEWER/STORM CROSSING DETAIL.

2) WATER MAINS CROSSING SEWER LINES SHALL BE LAID ABOVE THE SEWER LINE TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF WATER MAIN TO THE OUTSIDE OF THE SEWER LINE. ONE FULL LENGTH (L) OF WATER PIPE SHALL BE CENTERED ABOVE THE SEWER LINE SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER LINE AS POSSIBLE. SPECIAL SUPPORT FOR THE WATER AND SEWER PIPES MAY BE REQUIRED. SEE THRUST BLOCK DETAIL.

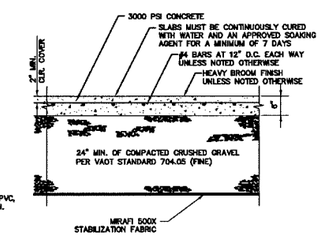
7 C-15 WATER & SEWER/STORM OFFSET DETAIL
N.T.S.



NOTE:

TANK TO BE VERIFIED WITH ARCHITECTURAL PLANS; 1500 GALLON MINIMUM.

8 C-15 LIGHT DUTY GREASE TRAP TANK
N.T.S.



9 C-15 SLAB-ON GRADE FOR DUMPSTER PAD
N.T.S.

APPLICATION NO: DP 09-21
TAX PARCEL NO: 8:102:28, 48

PERMIT SET

REVISION DATE & DESCRIPTION	BY
01/15/10 - MODIFIED SANITARY SEWER	MEC
02/19/10 - REVISED PER TOWN COMMENTS	MEC
05/28/10 - REVISED PER PUBLIC WORKS	MEC
02/16/11 - REVISED	MEC
03/30/12 - REVISED TO REDUCE WETLAND IMPACT	MEC
04/19/12 - ISSUED FOR PERMITTING	MEC

Champlain Consulting ENGINEERS
85 PRIM ROAD, P.O. BOX 453
COLCHESTER, VERMONT 05446
(802) 863-8060 - 864-1878 FAX

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STATE OF VERMONT JOHN C. GERKEN NO. 5745 CIVIL LICENSED PROFESSIONAL ENGINEER

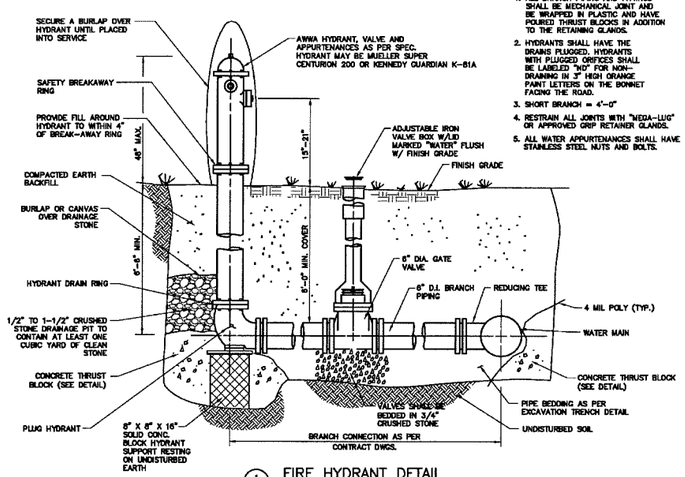
ESSEX ALLIANCE CHURCH
ROUTE 2A / ESSEX ROAD
SITE DETAILS
WILLISTON VERMONT

DRAWN	CCE
CHECKED	MEC
SCALE	N.T.S.
DATE	12/15/09
JOB NO.	26141
SHEET	C-15

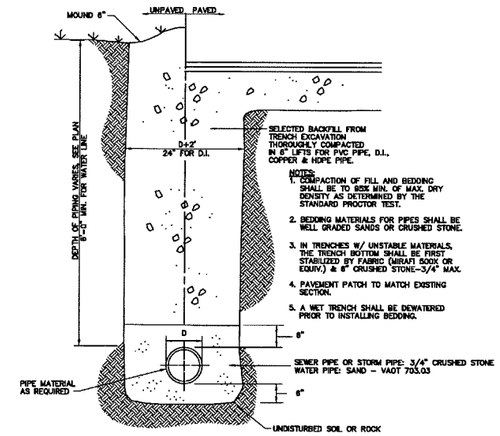
OF 18 SHEETS

N:\jobs\proj\2614\1\26141.15.dwg Fri Jan 23 4:3' 04 2015 CJE/TCL

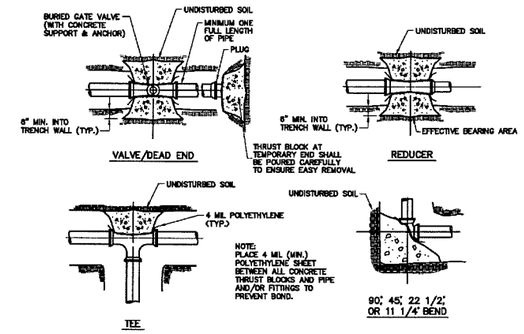
NOTES:
1. ALL BRANCH PIPING AND FITTINGS SHALL BE MECHANICAL JOINT AND BE WRAPPED IN PLASTIC AND HAVE POURED THRUST BLOCKS IN ADDITION TO THE RETAINING GLANDS.
2. HYDRANTS SHALL HAVE THE DRAINS PLUGGED. HYDRANTS WITH PLUGGED ORIFICES SHALL BE LABELED "NO" FOR NON-DRAINING IN 3" HIGH ORANGE PAINT LETTERS ON THE BONNET FACING THE ROAD.
3. SHORT BRANCH = 4'-0"
4. RESTRAIN ALL JOINTS WITH "MEGA-LUG" OR APPROVED GRIP RETAINER GLANDS.
5. ALL WATER APPURTENANCES SHALL HAVE STAINLESS STEEL NUTS AND BOLTS.



1 C-16 FIRE HYDRANT DETAIL
N.T.S.



2 C-16 TYPICAL EXCAVATION TRENCH DETAIL
N.T.S.

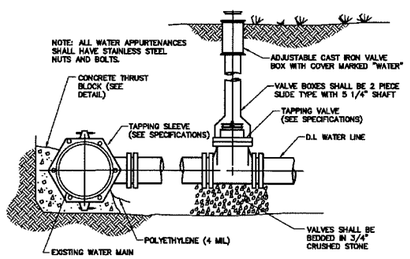


MINIMUM AREA OF BEARING SURFACE OF CONC. THRUST BLOCKS (in square feet)

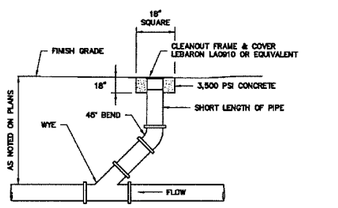
3"				4"				6"				8"				10"				12"					
ENDS & TEES	90° ELB.	45° ELB.	22.5° ELB.	ENDS & TEES	90° ELB.	45° ELB.	22.5° ELB.	ENDS & TEES	90° ELB.	45° ELB.	22.5° ELB.	ENDS & TEES	90° ELB.	45° ELB.	22.5° ELB.	ENDS & TEES	90° ELB.	45° ELB.	22.5° ELB.	ENDS & TEES	90° ELB.	45° ELB.	22.5° ELB.	SOIL CONDITION	SAFE BEARING LOAD(P.S.F.)
0.5	0.5	0.5	0.5	0.5	1.0	0.5	0.5	1.0	1.5	1.0	0.5	2.0	2.5	1.5	1.0	3.5	4.5	2.5	1.5	4.0	5.5	3.0	1.5	ROUND SHALE	10,000
1.0	1.0	1.0	0.5	1.5	2.0	1.0	0.5	3.0	4.0	2.0	1.0	4.5	6.5	3.5	2.0	8.5	10.5	6.0	3.0	10.0	4.0	7.5	4.0	SOFT SHALE, GRAVEL, SAND	4,000
1.0	1.5	1.0	0.5	2.0	2.5	1.5	1.0	3.5	8.0	3.0	1.5	6.0	8.5	5.0	2.5	11.0	14.0	8.0	4.0	13.0	18.5	10.0	5.0	SILT, CLAY & FINE SAND	3,000
1.5	2.5	1.5	1.0	2.5	3.5	2.0	1.0	5.5	7.5	4.0	2.0	8.0	13.0	7.0	3.5	16.5	21.0	11.5	6.0	20.0	27.5	15.0	8.0	SOFT CLAY & SILT	2,000
3.0	4.5	2.5	1.5	5.0	7.0	4.0	2.0	10.5	15.0	8.0	4.0	18.0	25.0	14.0	7.0	33.0	42.0	23.0	12.0	38.0	55.0	30.0	15.0	SOFT CLAY	1,000

MAXIMUM WATER PRESSURE = 300 P.S.I. NOTE: REDUCER BEARING AREA = 45 BEND, LARGER PIPE

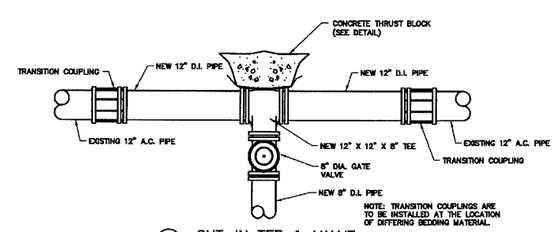
3 C-16 THRUST BLOCK DETAILS
N.T.S.



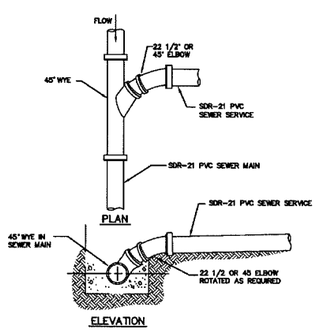
4 C-16 TAPPING SLEEVE & VALVE
N.T.S.



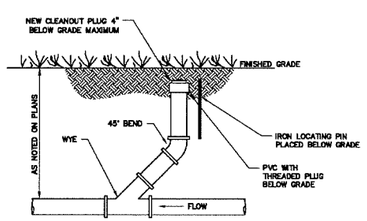
5 C-16 TYPICAL CLEANOUT IN PAVEMENT DETAIL
N.T.S.



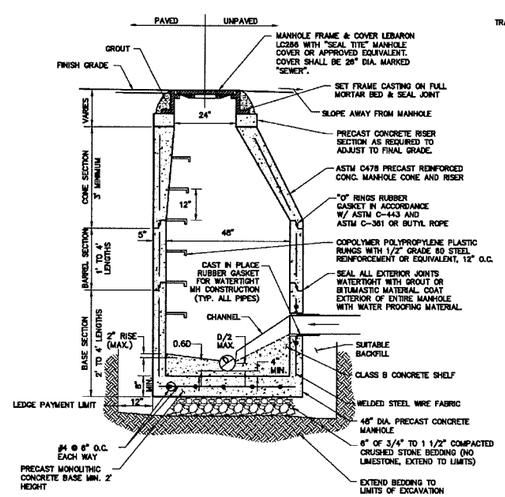
6 C-16 CUT-IN TEE & VALVE
N.T.S.



7 C-16 SEWER SERVICE DETAIL
N.T.S.

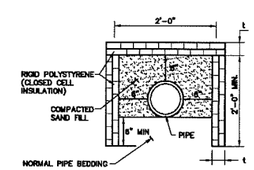


8 C-16 TYPICAL CLEANOUT IN GRASS DETAIL
N.T.S.



NOTES:
1. FORM INVERT TO SAME RADIUS AS LARGEST PIPE LEAVING SANITARY MANHOLE ALL INVERTS & TRANSITIONS TO BE SMOOTH. NO SHARP BENDS ALLOWED.
2. INLET & OUTLET PIPES SHALL BE JOINED TO THE MANHOLE WITH A FLEXIBLE WATERTIGHT CONNECTION OR ANY WATERTIGHT CONNECTION ARRANGEMENT THAT ALLOWS DIFFERENTIAL SETTLEMENT OF PIPE AND MANHOLE TO OCCUR.
3. ALL SANITARY SEWER MANHOLES MUST BE TESTED AND INSPECTED PRIOR TO BACKFILLING THE STRUCTURE.

9 C-16 TYPICAL PRECAST SANITARY MANHOLE
N.T.S.



NOTE: INSULATE ALL SECTIONS OF STORM & SANITARY SEWER PIPING WITH LESS THAN 5'-6" OF COVER
t = 2" (COVER 4'-6" - 5'-6")
t = 4" (COVER LESS THAN 4'-6")

10 C-16 SEWER INSULATION DETAIL
N.T.S.

APPROVAL SIGNATURE BLOCK
UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BYLAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT DP09-21, THE WILLISTON DEVELOPMENT REVIEW BOARD APPROVED THE FINAL PLANS FOR THE ESSEX ALLIANCE CHURCH ON THE [illegible] DAY OF [illegible], 20[illegible]5
DEVELOPMENT REVIEW BOARD PRESIDING MEMBER

APPLICATION NO: DP 09-21
TAX PARCEL NO: 8:102:28, 48

PERMIT SET

REVISION DATE & DESCRIPTION	BY
01/15/10 - MODIFIED SANITARY SEWER	MEC
02/16/10 - REVISED PER TOWN COMMENTS	MEC
05/28/10 - REVISED PER PUBLIC WORKS	MEC
02/03/11 - REVISED	MEC
03/30/12 - REVISED TO REDUCE WETLAND IMPACT	MEC
06/16/12 - ISSUED FOR PERMITTING	MEC

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85 PRUM ROAD, P.O. BOX 453
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STATE OF VERMONT MARK E. CORNELLE NO. 8745 CIVIL LICENSED PROFESSIONAL ENGINEER

ESSEX ALLIANCE CHURCH
ROUTE 2A / ESSEX ROAD
WATER / SEWER DETAILS
WILLISTON VERMONT

DRAWN	CCE
CHECKED	MEC
SCALE	N.T.S.
DATE	12/15/09
JOB NO.	26141
SHEET	C-16
OF	18 SHEETS

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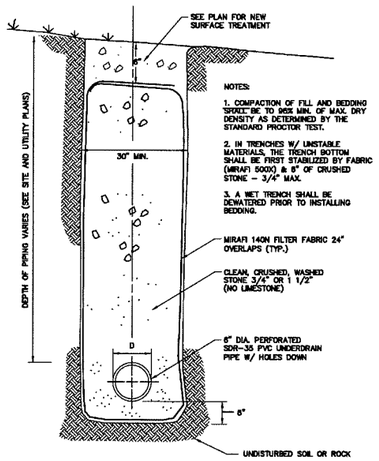


NOTES:

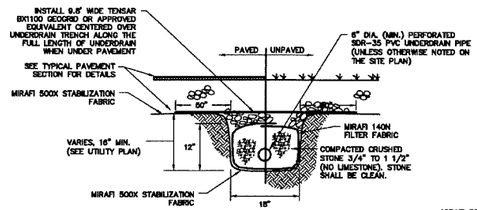
1. COMPACTION OF FILL AND BEDDING "SHALL" BE TO 95% MIN. OF MAX. DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST.

2. IN TRENCHES W/ UNSTABLE MATERIALS, THE TRENCH BOTTOM SHALL BE FIRST STABILIZED BY FABRIC (MIRAFI 500X) & 8" OF CRUSHED STONE – 3/4" MAX.

3. A WET TRENCH SHALL BE DEWATERED PRIOR TO INSTALLING BEDDING.

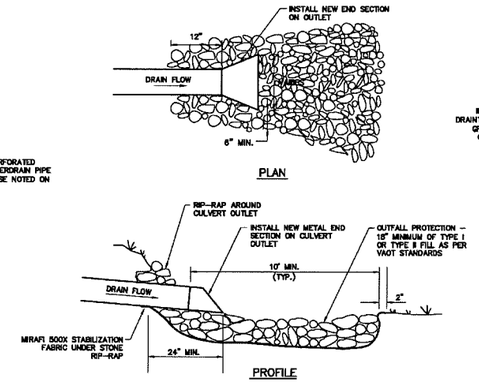
1/C-17 TYPICAL CURTAIN DRAIN DETAIL
N.T.S.

UNDERDRAIN NOTE:
MATERIAL TYPE AND DEPTH IS SUBJECT TO CHANGE BASED ON SITE SPECIFIC RECOMMENDATIONS MADE BY THE PROJECT GEOTECHNICAL ENGINEER.

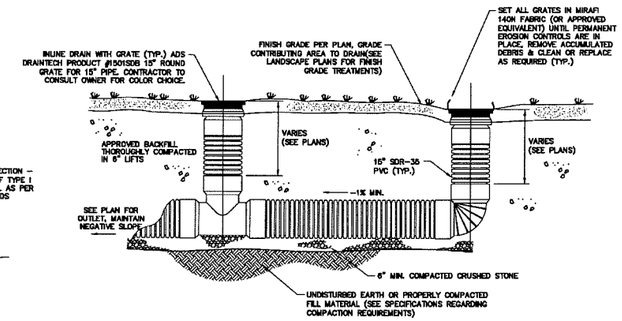


NOTE:
DO NOT PLACE MIRAFI 500X FABRIC OVER THE UNDERDRAIN TRENCH

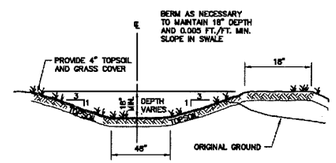
3/C-17 TYPICAL UNDERDRAIN DETAIL
N.T.S.



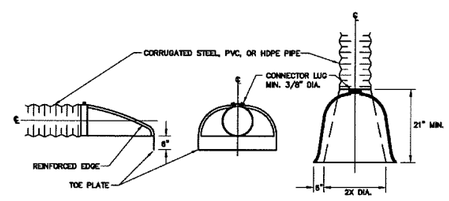
3/C-17 CULVERT OUTLET DETAIL
N.T.S.



4/C-17 TYPICAL YARD DRAIN
N.T.S.

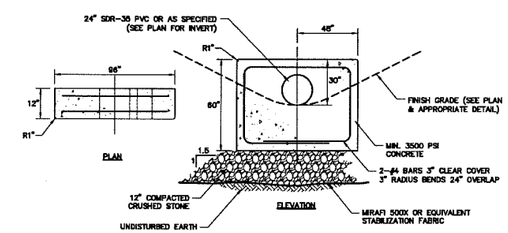


5/C-17 TYPICAL SWALE/CHANNEL DETAIL
N.T.S.

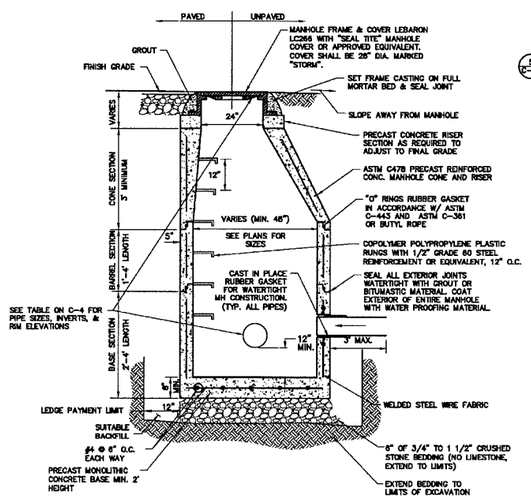


NOTE:
END SECTIONS ARE TO BE INSTALLED TO THE MANUFACTURER'S SPECIFICATIONS AND TO THE APPROVAL OF THE ENGINEER AND OWNER.

8/C-17 FLARED END SECTION DETAIL
N.T.S.

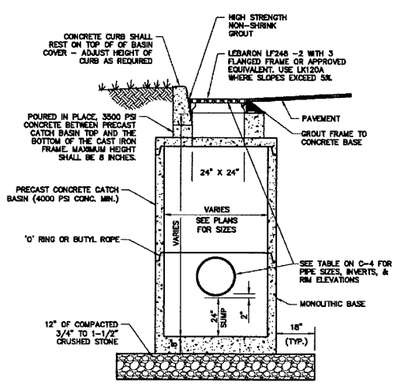


7/C-17 TYPE 1 CONCRETE HEADWALL DETAIL
N.T.S.



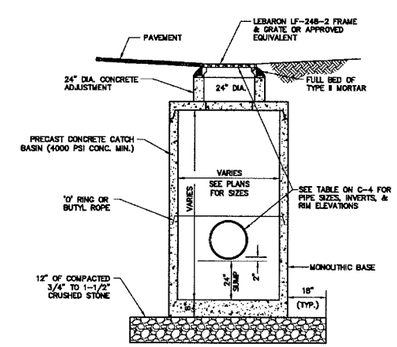
MANHOLE NOTE:
1. INLET & OUTLET PIPES SHALL BE JOINED TO THE MANHOLE WITH A FLEXIBLE WATERTIGHT CONNECTION OR ANY WATERTIGHT CONNECTION ARRANGEMENT THAT ALLOWS DIFFERENTIAL SETTLEMENT OF PIPE AND MANHOLE TO OCCUR.

8/C-17 TYPICAL PRECAST STORM MANHOLE
N.T.S.



NOTE: INLET & OUTLET PIPES SHALL BE JOINED TO THE MANHOLE WITH A GASKETED FLEXIBLE WATERTIGHT CONNECTION OR ANY WATERTIGHT CONNECTION ARRANGEMENT THAT ALLOWS DIFFERENTIAL SETTLEMENT OF PIPE AND MANHOLE TO OCCUR.

9/C-17 TYPICAL CATCH BASIN AT CURB
N.T.S.



NOTE: INLET & OUTLET PIPES SHALL BE JOINED TO THE MANHOLE WITH A GASKETED FLEXIBLE WATERTIGHT CONNECTION OR ANY WATERTIGHT CONNECTION ARRANGEMENT THAT ALLOWS DIFFERENTIAL SETTLEMENT OF PIPE AND MANHOLE TO OCCUR.

10/C-17 TYPICAL CATCH BASIN
N.T.S.

APPROVAL SIGNATURE BLOCK
UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BYLAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT DP09-21, THE WILLISTON DEVELOPMENT REVIEW BOARD APPROVED THE FINAL PLANS FOR THE ESSEX ALLIANCE CHURCH ON THIS 22 DAY OF JANUARY 2015
DEVELOPMENT REVIEW BOARD PRESIDING MEMBER

APPLICATION NO: DP 09-21
TAX PARCEL NO: 8:102:28, 48

PERMIT SET

REVISION DATE & DESCRIPTION	BY
02/18/10 – REVISED PER TOWN COMMENTS	MEC
02/18/11 – REVISED	MEC
03/30/12 – REVISED TO REDUCE WETLAND IMPACT	MEC
09/10/12 – ISSUED FOR PERMITTING	MEC

Champlain Consulting ENGINEERS
85 PRIM ROAD, P.O. BOX 453
COLCHESTER, VERMONT 05446
(802) 863-8060 - 864-1878 FAX

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STATE OF VERMONT
MARTIN E. CONSOLLE
NO. 8745
CIVIL
LICENSED PROFESSIONAL ENGINEER

ESSEX ALLIANCE CHURCH
ROUTE 2A / ESSEX ROAD
STORMWATER DETAILS
WILLISTON VERMONT

DRAWN	CCE
CHECKED	MEC
SCALE	N.T.S.
DATE	12/15/09
JOB NO.	26141
SHEET	C-17

OF 18 SHEETS

N:\26SERVER\26141\26141_LIT.DWG Fri Jan 23 14:32:42 2015 LJB/PKL

STORMWATER NOTE:

RECEIVING SWALE FOR THE STORMWATER DISCHARGE SHALL BE MONITORED MONTHLY AND AFTER EVERY MAJOR STORM EVENT DURING THE FIRST YEAR OF OPERATION TO DETERMINE WHETHER ANY EROSION HAS OCCURRED. AFTER THE FIRST YEAR THE OUTFALL SHALL BE MONITORED ONCE A YEAR. SHOULD EROSION OCCUR AT ANY POINT A REMEDIATION PLAN SHALL BE SUBMITTED TO THE TOWN.

STORMWATER POND SCHEDULE

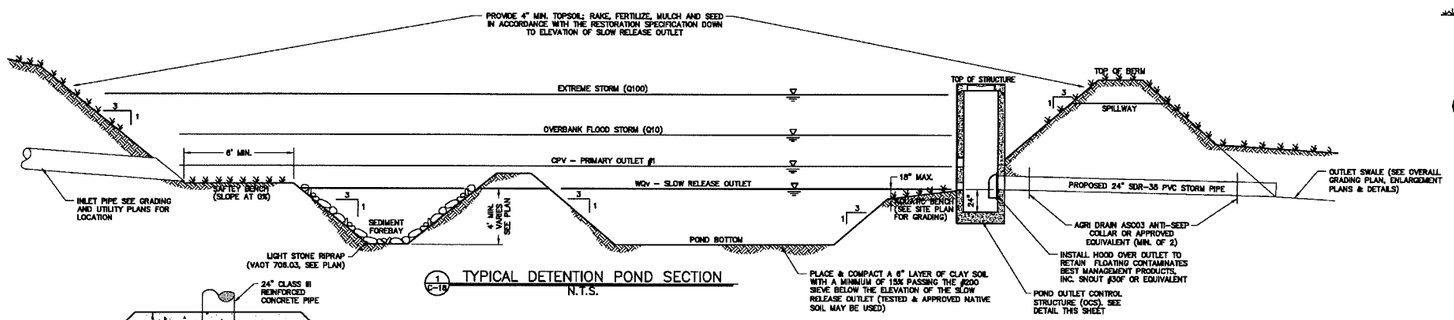
ITEM	POND #1	POND #2
SEDIMENT FOREBAY	368.00'	368.00'
POND BOTTOM	369.00'	365.50'
SLOW RELEASE OUTLET	(7) – 1" DIA. ORIFICE – 372.40'	(2) – 2" DIA. ORIFICE – 369.00'
PRIMARY OUTLET #1	(2) – 3'-0" X 8" RECT. ORIFICE – 375.00'	(2) – 2' – 0" x 8" RECT. ORIFICE – 370.75'
TOP OF STRUCTURE	377.00'	374.00'
SPILLWAY	375.90'	373.25'
TOP OF BERM	377.00'	374.00'

MAINTENANCE SCHEDULE:

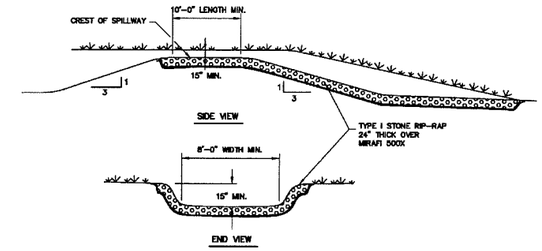
THE POND SHOULD BE INSPECTED FOR SEDIMENT BUILD-UP. MAINTENANCE FOR SEDIMENT BUILD-UP SHOULD INCLUDE BRUSHING OR SCRAPING THE FLOOR AND SIDES TO REMOVE CAKED ON SILT.

THE POND AND THE OUTLET CONTROL SHALL BE INSPECTED ANNUALLY FOR PROPER WORKING ORDER. THE SWALES AND THE POND SHOULD BE INSPECTED FOR EROSION AFTER INTENSE RAINFALL. ADDITIONAL EROSION CONTROL MEASURE SUCH AS RIP-RAP SHOULD BE USED AS NECESSARY.

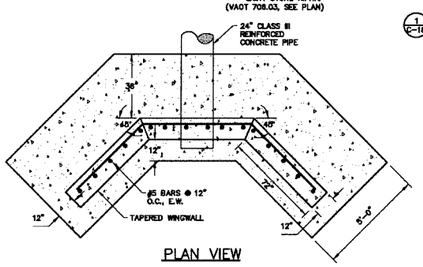
THE POND SHOULD BE INSPECTED FOR TRASH AND DEBRIS AFTER INTENSE RAINFALL. THOROUGHLY INSPECT THE OUTLET DEVICE FOR DEBRIS TO ENSURE IT WILL FUNCTION PROPERLY.



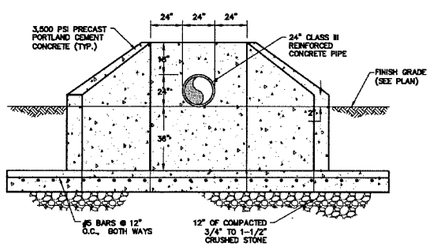
1 C-18 TYPICAL DETENTION POND SECTION
N.T.S.



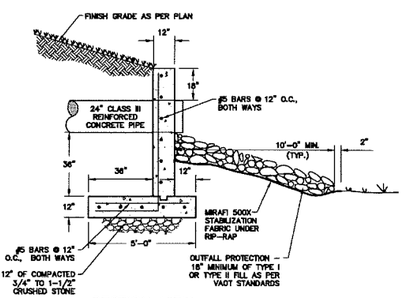
2 C-18 OVERFLOW SPILLWAY DETAIL
N.T.S.



PLAN VIEW

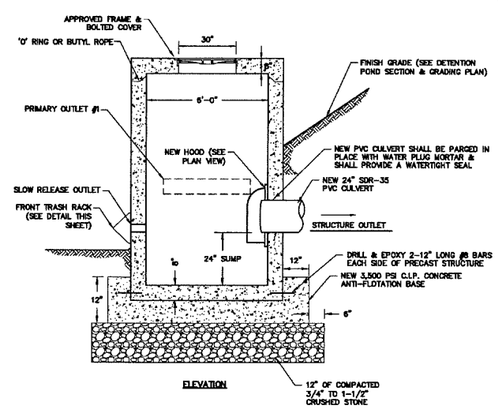


ELEVATION VIEW



SECTION VIEW

4 C-18 TYPE 2 CONCRETE HEADWALL DETAIL
N.T.S.



5 C-18 TYPICAL POND OUTLET CONTROL STRUCTURE (OCS) DETAIL
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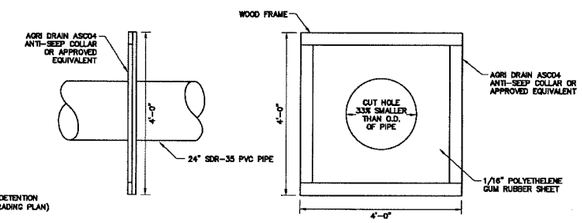
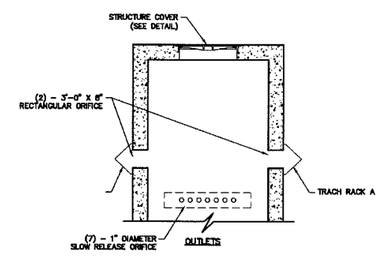
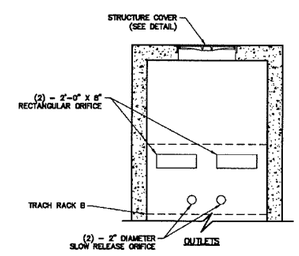


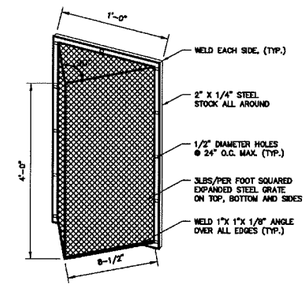
3 C-18 ANTI – SEEP COLLAR
N.T.S.



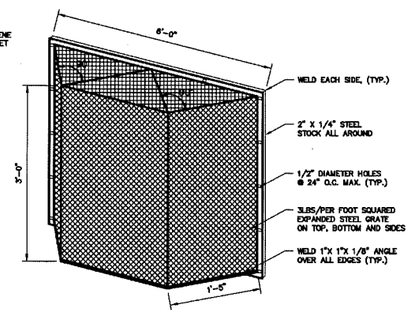
6 C-18 POND OUTLET CONTROL STRUCTURE #1 – OUTLET DETAIL
N.T.S.



7 C-18 POND OUTLET CONTROL STRUCTURE #2 – OUTLET DETAIL
N.T.S.



TRASH RACK A
MOUNTED HORIZONTALLY



TRASH RACK B
MOUNTED VERTICALLY

NOTES FOR TRASH RACKS

1. TRASH RACK TO BE CENTERED OVER OPENING.
2. STEEL TO CONFORM TO ASTM A-36.
3. ALL SURFACES TO BE COATED WITH COLD GALVANIZING COMPOUND AFTER WELDING.
4. TRASH RACK TO BE FASTENED TO THE WALL WITH 1/2" MASONRY ANCHORS. TRASH RACK TO BE REMOVABLE.

8 C-18 TRASH RACK PROTECTION
N.T.S.

APPROVAL SIGNATURE BLOCK

UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BYLAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT DP09-21, THE WILLISTON DEVELOPMENT REVIEW BOARD APPROVED THE FINAL PLANS FOR THE ESSEX ALLIANCE CHURCH ON THIS 5 DAY OF APRIL 20_15

DEVELOPMENT REVIEW BOARD PRESIDING MEMBER

APPLICATION NO: DP 09-21
TAX PARCEL NO: 8:102:28, 48

PERMIT SET

REVISION DATE & DESCRIPTION	BY
02/19/10 – REVISED PER TOWN COMMENTS	MEC
02/18/11 – REVISED	MEC
03/30/12 – REVISED TO REDUCE WETLAND IMPACT	MEC
09/10/12 – ISSUED FOR PERMITTING	MEC

Champlain Consulting ENGINEERS
85 PRIM ROAD, P.O. BOX 453
COLCHESTER, VERMONT 05446
(802) 863-8060 - 864-1878 FAX
www.champlainconsulting.net

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STATE OF VERMONT MATTHEW E. CONCELLE NO. 8745 CIVIL LICENSED PROFESSIONAL ENGINEER

ESSEX ALLIANCE CHURCH
ROUTE 2A / ESSEX ROAD
STORMWATER DETAILS
WILLISTON VERMONT

DRAWN	CCE
CHECKED	MEC
SCALE	N.T.S.
DATE	12/15/09
JOB NO.	26141
SHEET	C-18

OF 18 SHEETS

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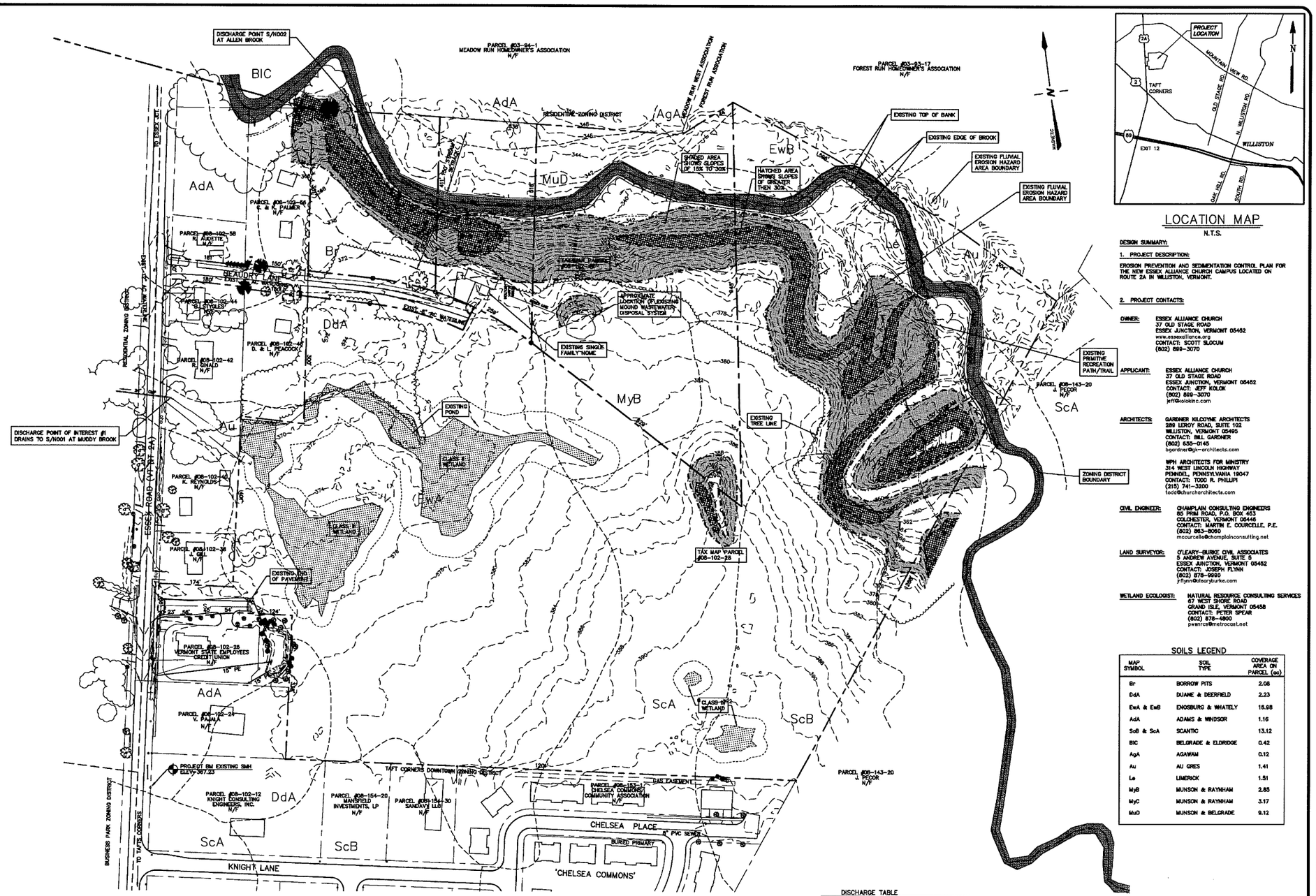

LOCATION MAP

N.T.S.

DESIGN SUMMARY:

1. PROJECT DESCRIPTION:

EROSION PREVENTION AND SEDIMENTATION CONTROL PLAN FOR THE NEW ESSEX ALLIANCE CHURCH CAMPUS LOCATED ON ROUTE 2A IN WILLISTON, VERMONT.

2. PROJECT CONTACTS:

OWNER: ESSEX ALLIANCE CHURCH
37 OLD STAGE ROAD
ESSEX JUNCTION, VERMONT 05452
www.essexalliance.org
CONTACT: SCOTT SLOCUM
(802) 899-3070

APPLICANT: ESSEX ALLIANCE CHURCH
37 OLD STAGE ROAD
ESSEX JUNCTION, VERMONT 05452
CONTACT: JEFF KOLOK
(802) 899-3070
jeff@kolokinc.com

ARCHITECTS: GARDNER KILCOYNE ARCHITECTS
289 LEROY ROAD, SUITE 102
WILLISTON, VERMONT 05495
CONTACT: BILL GARDNER
(802) 655-0145
bgardner@gk-architects.com

WPH ARCHITECTS FOR MINISTRY
314 WEST LINCOLN HIGHWAY
PENNDEL, PENNSYLVANIA 19047
CONTACT: TODD R. PHILLIPI
(215) 741-3200
todd@churcharchitects.com

CIVIL ENGINEER: CHAMPLAIN CONSULTING ENGINEERS
85 PRIM ROAD, P.O. BOX 453
COLCHESTER, VERMONT 05446
CONTACT: MARTIN E. COURCELLE, P.E.
(802) 863-8060
mcourcelle@champlainconsulting.net

LAND SURVEYOR: O'LEARY-BURKE CIVIL ASSOCIATES
5 ANDREW AVENUE, SUITE 5
ESSEX JUNCTION, VERMONT 05452
CONTACT: JOSEPH FLYNN
(802) 878-9990
jflynn@olearyburke.com

WETLAND ECOLOGIST: NATURAL RESOURCE CONSULTING SERVICES
67 WEST SHORE ROAD
GRAND ISLE, VERMONT 05458
CONTACT: PETER SPEAR
(802) 878-4800
pwsnrcs@metrocast.net

SOILS LEGEND

MAP SYMBOL	SOIL TYPE	COVERAGE AREA ON PARCEL (ac)
Br	BORROW PITS	2.08
DdA	DUANE & DEERFIELD	2.23
EwA & EwB	ENOSBURG & WHATELY	15.98
AdA	ADAMS & WINDSOR	1.16
SoB & ScA	SCANTIC	13.12
BIC	BELGRADE & ELDRIDGE	0.42
AgA	AGAWAM	0.12
Au	AU GRES	1.41
Le	LIMERICK	1.51
MyB	MUNSON & RAYNHAM	2.85
MyC	MUNSON & RAYNHAM	3.17
MuD	MUNSON & BELGRADE	9.12

APPROVAL SIGNATURE BLOCK

UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BYLAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT DP09-21, THE WILLISTON DEVELOPMENT REVIEW BOARD APPROVED THE FINAL PLANS FOR THE ESSEX ALLIANCE CHURCH ON THE ____ DAY OF _____, 20__.

DEVELOPMENT REVIEW BOARD PRESIDING MEMBER

EROSION CONTROL– EXISTING CONDITIONS

EC-1

SCALE 1" = 100'

Graphic Scale: 100 0 100 200 300 400 feet

DISCHARGE TABLE

DISCHARGE POINT OF INTEREST #1
DISCHARGE POINT OF INTEREST #1 DRAINS TO DISCHARGE S/N001 AT MUDDY BROOK APPROXIMATELY 500'± DOWN STREAM

DISCHARGE S/N 002
THE SITE SHEET AND CHANNEL FLOWS DOWN TO ALLEN BROOK AND FLOWS TO DISCHARGE POINT S/N002

APPLICATION NO: DP 09-21
TAX PARCEL NO: 8:102:28, 48

PERMIT SET

REVISION DATE & DESCRIPTION	BY
02/18/10 - REVISED PER TOWN COMMENTS	MEC
02/18/11 - REVISED	MEC
03/20/12 - REVISED TO REDUCE WETLAND IMPACT	MEC
08/10/12 - ISSUED FOR PERMITTING	MEC

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STATE OF VERMONT MARTIN E. COURCELLE NO. 8745 CIVIL LICENSED PROFESSIONAL ENGINEER

ESSEX ALLIANCE CHURCH
ROUTE 2A / ESSEX ROAD
EROSION PREVENTION AND SEDIMENTATION CONTROL
EXISTING CONDITIONS
WILLISTON VERMONT

DRAWN	CCE
CHECKED	MEC
SCALE	1" = 100'
DATE	12/15/09
JOB NO.	28141
SHEET	EC-1

OF 3 SHEETS

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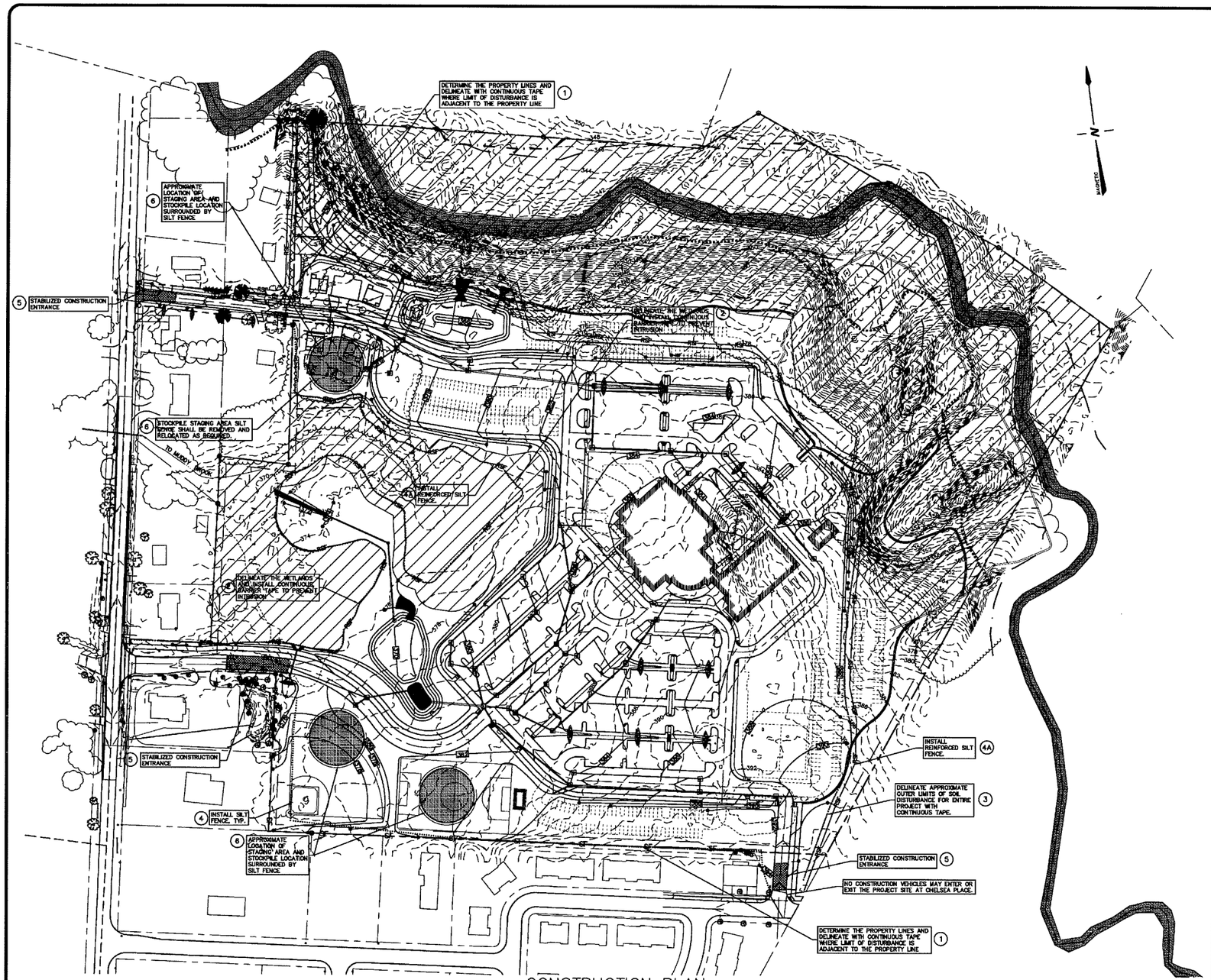

CONSTRUCTION PLAN
EROSION PREVENTION AND SEDIMENT CONTROL

1 / EC-2

SCALE 1" = 100'

Graphic Scale: 100 0 100 200 300 400 feet

APPROVAL SIGNATURE BLOCK

UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BYLAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT DP09-21, THE WILLISTON DEVELOPMENT REVIEW BOARD APPROVED THE FINAL PLANS FOR THE ESSEX ALLIANCE CHURCH ON THE 25 DAY OF Feb 2015

DEVELOPMENT REVIEW BOARD PRESIDING MEMBER

APPLICATION NO: DP 09-21
TAX PARCEL NO: 8:102:28, 48

PERMIT SET

LEGEND

- EXISTING CONTOUR — 362 —
- EXISTING TREELINE
- EXISTING WETLAND
- EXISTING 100 YR FLOOD PLAIN
- EXISTING PROPERTY LINE
- EXISTING ZONING DISTRICT BOUNDARY
- PROPOSED CONTOUR — 376 —
- PROPOSED BUILDING
- WETLAND DELINEATION
- APPROXIMATE LIMITS OF SOIL DISTURBANCE AND CONTINUOUS BARRIER TAPE
- CATCH BASIN WITH INLET PROTECTION
- TEMPORARY STONE CHECK DAM
- STONE OUTLET PAD
- SILT FENCE — SF —
- REINFORCED SILT FENCE — RSF —

THIS PLAN SET FOR EROSION PREVENTION & SEDIMENT CONTROL ONLY. REFER TO PLAN SET TITLED ESSEX ALLIANCE CHURCH, ROUTE 2A / ESSEX ROAD BY CHAMPLAIN CONSULTING ENGINEERS LAST REVISED 09/10/12 FOR LAYOUT & UTILITY INFORMATION.

CONSTRUCTION SEQUENCING TIMETABLE

* A PRE-CONSTRUCTION MEETING SHALL BE HELD BETWEEN THE CONTRACTOR, EARTH WORK SUBCONTRACTOR(S), NATURAL RESOURCES CONSULTING SERVICES (NRCS), PROJECT ENGINEER, OWNER, AND THE CONSTRUCTION FOREMAN PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY OR DE-MARKATION.

1. DETERMINE THE PROPERTY LINES AND DELINEATE WITH CONTINUOUS TAPE WHERE LIMIT OF DISTURBANCE IS ADJACENT TO THE PROPERTY LINE.
2. DELINEATE THE WETLANDS AND INSTALL CONTINUOUS BARRIER TAPE TO PREVENT INTRUSION.
3. DELINEATE APPROXIMATE OUTER LIMITS OF SOIL DISTURBANCE FOR ENTIRE PROJECT WITH CONTINUOUS BARRIER TAPE.
4. INSTALL SILT FENCE FOR ENTIRE SITE.

4A. INSTALL REINFORCED SILT FENCE ALONG ALLEN BROOK AND WHERE DISTURBANCE IS ADJACENT TO WETLANDS.

5. INSTALL STABILIZED CONSTRUCTION ENTRANCES.
6. INSTALL SILT FENCE AROUND STAGING AND STOCKPILE AREAS.
7. DELINEATE LIMIT OF DISTURBANCE AREA PERTAINING TO POND #1 (SOUTH) WORK.
8. INSTALL POND #1 AND EROSION CONTROL INLET AND STONE OUTLET PAD.
9. DELINEATE LIMIT OF DISTURBANCE AREA PERTAINING TO POND #2 (NORTH) WORK.
10. INSTALL POND #2 AND EROSION CONTROL INLET AND STONE OUTLET PAD.
11. ALL AREAS DISTURBED FOR POND #1 AND POND #2, SHALL BE STABILIZED PER EROSION PREVENTION AND SEDIMENT CONTROL NOTES AND RESTORATION SPECIFICATION.
12. ALL CATCH BASIN INLETS SHALL HAVE INLET PROTECTION INSTALLED AS THEY ARE CONSTRUCTED, SEE DETAIL.
13. MAINTAIN ALL INLET & OUTLET STONE PADS AND EROSION CONTROL CHECK DAMS.
14. DELINEATE LIMITS OF DISTURBANCE FOR CONSTRUCTION OF BUILDINGS AND ROADWAYS WITH CONTINUOUS TAPE.
15. ALL DISTURBED AREAS SHALL BE STABILIZED. AFTER STABILIZATION OF DISTURBED AREAS, CONSTRUCTION SHALL BEGIN ON THE CENTRAL AREA. AS CONSTRUCTION PROGRESSES DISTURBED AREAS SHALL BE STABILIZED.
16. STOCKPILE STAGING AREA SILT FENCE SHALL BE REMOVED AND RELOCATED AS REQUIRED.
17. ALL DISTURBED AREAS SHALL BE FINAL GRADED AND STABILIZED.
18. ONCE FINAL TURF IS ESTABLISHED; SILT FENCE, ALL DELINEATION MARKERS, AND ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED.

PRIMARY CONSTRUCTION EROSION & SEDIMENT CONTROL SCHEDULE

INSPECTION/ACTIVITY	FREQUENCY/ACTION
THE ON-SITE PLAN COORDINATOR SHALL BRIEF ALL PERSONNEL & SUB-CONTRACTORS REGARDING EROSION/SEDIMENT CONTROL & THE DISTURBANCE LIMITS	AS REQUIRED THROUGHOUT THE PROJECT
THE ON-SITE PLAN COORDINATOR SHALL CONDUCT A PERIMETER CHECK OF CONSTRUCTION AREA TO ENSURE ADHERENCE TO THE DISTURBANCE LIMITS & ASSESS THE EFFECTIVENESS & MAINTENANCE REQUIREMENTS OF THE SILT FENCE	MINIMUM ONCE EVERY 7 CALENDAR DAYS & AS SOON AS POSSIBLE (BUT NO LATER THAN 24 HRS) AFTER EACH STORM EVENT/SCHEDULE & DIRECT ALL REQUIRED MAINTENANCE IMMEDIATELY
THE CONSTRUCTION FOREMAN SHALL ASSESS THE EFFECTIVENESS & MAINTENANCE REQUIREMENTS OF THE CONSTRUCTION ENTRANCE, VEHICLE TRAFFIC AREAS & CHECK DAMS	DAILY/SCHEDULE & DIRECT ALL REQUIRED MAINTENANCE IMMEDIATELY. REPORT ANY ISSUES TO ON-SITE PLAN COORDINATOR IMMEDIATELY
THE ON-SITE PLAN COORDINATOR SHALL VISUALLY CHECK THE EXISTING DISCHARGE POINTS ON THE WEST SIDE OF THE PROPERTY FOR ANY SIGN OF SEDIMENT RELATED DISCOLORATION	MINIMUM ONCE EVERY 7 CALENDAR DAYS & AS SOON AS POSSIBLE (BUT NO LATER THAN 24 HRS) AFTER EACH STORM EVENT/SCHEDULE & DIRECT ALL REQUIRED MAINTENANCE IMMEDIATELY
THE ON-SITE PLAN COORDINATOR SHALL ASSESS THE EFFECTIVENESS & MAINTENANCE REQUIREMENTS OF THE TEMPORARY EROSION CONTROL MEASURES	MINIMUM ONCE EVERY 7 CALENDAR DAYS & AS SOON AS POSSIBLE (BUT NO LATER THAN 24 HRS) AFTER EACH STORM EVENT/SCHEDULE & DIRECT ALL REQUIRED MAINTENANCE IMMEDIATELY
THE ON-SITE PLAN COORDINATOR SHALL ASSESS THE EFFECTIVENESS & MAINTENANCE REQUIREMENTS OF THE TEMPORARY EROSION CONTROL MEASURES SURROUNDING STOCKPILED MATERIALS	MINIMUM ONCE EVERY 7 CALENDAR DAYS & AS SOON AS POSSIBLE (BUT NO LATER THAN 24 HRS) AFTER EACH STORM EVENT/SCHEDULE & DIRECT ALL REQUIRED MAINTENANCE IMMEDIATELY
THE CONSTRUCTION FOREMAN SHALL CHECK THE STAGING AREA FOR POSSIBLE FUEL LEAKS OR OTHER CONTAMINATION SOURCES	DAILY/SCHEDULE & DIRECT ALL REQUIRED MAINTENANCE IMMEDIATELY. REPORT ANY ISSUES TO ON-SITE PLAN COORDINATOR IMMEDIATELY
THE ON-SITE PLAN COORDINATOR SHALL COMPLETE & DISTRIBUTE INSPECTION REPORTS AS REQUIRED	WEEKLY OR AS OTHERWISE REQUIRED BY STORM EVENT, OBSERVED EROSION PROBLEM OR FOLLOW-UP OF PREVIOUS REPORT
THE ON-SITE PLAN COORDINATOR SHALL SCHEDULE AN INSPECTION OF THE WETLAND PROTECTION WITH NRCS WHO WILL FILE A REPORT WITH THE APPROPRIATE PARTIES	MONTHLY, OR AS OTHERWISE REQUIRED

EROSION PREVENTION AND SEDIMENT CONTROL NOTES:

1) ALL AREAS TO BE DISTURBED BY CONSTRUCTION SHALL RECEIVE MIN. 4" TOPSOIL, RAKE, SEED, FERTILIZE AND MULCH IN ACCORDANCE WITH RESTORATION SPECIFICATION AS SOON AS POSSIBLE, BUT WITHIN 48 HOURS OF ACHIEVING FINAL GRADE, TO MINIMIZE THE EXPOSURE OF UNSTABILIZED SOIL.

2) ALL SILT FENCES AND EROSION CONTROL DAMS SHALL BE CLEANED UP WHEN SEDIMENT BUILD-UP REACHES 50%.

3) ALL STOCKPILE LOCATIONS AND STAGING AREAS SHALL BE SURROUNDED BY SILT FENCE ON ALL SIDES. ENTRANCE SHALL BE ON CROSS-GRADIENT SIDE OF STOCKPILE TO PREVENT TRANSPORT OF SEDIMENT.

4) CONSTRUCTION SHALL BE PHASED TO LIMIT THE AMOUNT OF UNSTABILIZED DISTURBED MATERIAL PRESENT ON THE SITE.

5) NO CONSTRUCTION VEHICLES TO ENTER OR EXIT AT CHELSEA PLACE.

6) SEE SITE SPECIFICATION BOOK.

REVISION DATE & DESCRIPTION	BY
02/18/10 - REVISED PER TOWN COMMENTS	MEC
05/20/10 - REVISED PER PUBLIC WORKS	MEC
02/18/11 - REVISED	MEC
03/20/12 - REVISED TO REDUCE WETLAND IMPACT	MEC
09/10/12 - ISSUED FOR PERMITTING	MEC
07/02/13 - REVISED PRIMITIVE PATH LOCATION	MEC
01/23/15 - REVISED REC. PATH	MEC

Champlain Consulting ENGINEERS
85 PRIM ROAD, P.O. BOX 453
COLCHESTER, VERMONT 05446
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STATE OF VERMONT — MARK E. CONNELLY — NO. 8745 CIVIL — LICENSED PROFESSIONAL ENGINEER

ESSEX ALLIANCE CHURCH
ROUTE 2A / ESSEX ROAD
EROSION PREVENTION AND SEDIMENTATION CONTROL CONSTRUCTION PLAN

WILLISTON VERMONT

DRAWN	CCE
CHECKED	MEC
SCALE	1" = 100'
DATE	12/15/09
JOB NO.	28141
SHEET	EC-2

OF 3 SHEETS

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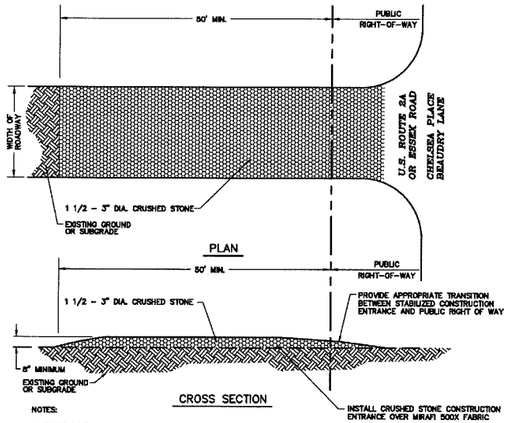
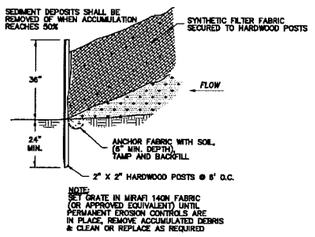


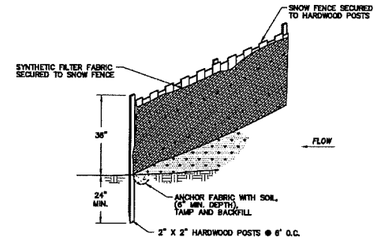
NOTES:

1. TO BE USED AT ALL CONSTRUCTION ACCESS POINTS. NO VEHICLES SHALL ACCESS THE SITE WHERE A STABILIZED ENTRANCE IS NOT PROVIDED.
2. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN-OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT TRACKED, SPILLED, OR WASHED ONTO PUBLIC RIGHT-OF-WAYS SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR.
3. THE USE OF CALCIUM CHLORIDE OR WATER MAY BE NECESSARY TO CONTROL DUST DURING THE SUMMER.

1 EC-3 TEMPORARY STABILIZED CONSTRUCTION ENTRANCE DETAIL
N.T.S.



2 EC-3 SILT FENCE DETAIL
N.T.S.



3 E-3 REINFORCED SILT FENCE DETAIL
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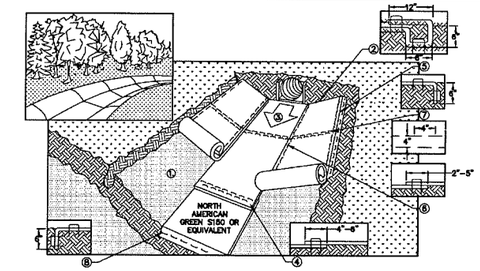
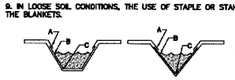


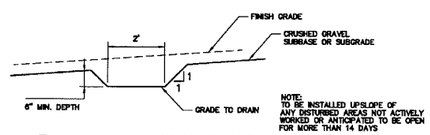
1. PREPARE SOIL BEFORE INSTALLING BLANKETS INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL CENTER BLANKETS IN THE DIRECTION OF FLOW IN THE BOTTOM OF THE CHANNEL. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. PLACE CONSECUTIVE BLANKETS END OVER END (SHINGLE STYLE) WITH A 4" - 6" OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART & 4" O.C. TO SECURE BLANKETS.
5. FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL & COMPACT THE TRENCH AFTER STAPLING.
6. ADJACENT BLANKETS MUST BE OVERLAPPED APPROXIMATELY 2" - 5" (DEPENDING ON TYPE) & STAPLED.
7. A STAPLE CHECK SLOT IS RECOMMENDED FOR HIGH FLOW APPLICATIONS AT APPROXIMATELY 30' - 40' INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART & 4" O.C. OVER THE ENTIRE WIDTH OF THE CHANNEL.
8. THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
9. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.



CRITICAL POINTS
A. OVERLAPS AND SEAMS
B. PROJECTED WATER LINE
C. CHANNEL BOTTOM/SIDE SLOPE VERTICES

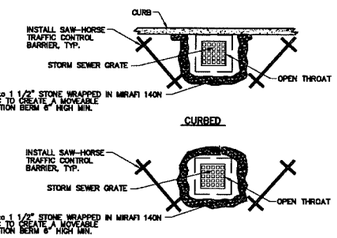
NOTE:
* HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.

4 EC-3 EROSION CHANNEL PROTECTION DETAIL
N.T.S.



NOTE:
TO BE INSTALLED UPSLOPE OF ANY DISTURBED AREAS NOT ACTIVELY WORKED OR ANTICIPATED TO BE OPEN FOR MORE THAN 14 DAYS

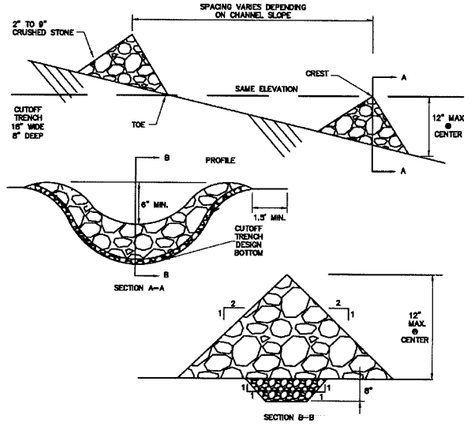
5 EC-3 TYPICAL DIVERSION SWALE
N.T.S.



NOTE: TO BE INSTALLED ON ALL EXISTING CATCH BASINS EFFECTED DURING CONSTRUCTION PRIOR TO THE START OF CONSTRUCTION AND ALL CATCH BASINS IN PAVED AREAS ONCE PAVEMENT IS INSTALLED BUT DRAINAGE AREA TO CATCH BASIN IS NOT FULLY VEGETATED.

NOTE:
SET GRATE IN MIRAFI 140N FABRIC (OR APPROVED EQUIVALENT) UNTIL FINAL TURF IS ESTABLISHED. REMOVE ACCUMULATED DEBRIS & CLEAN OR REPLACE AS REQUIRED.

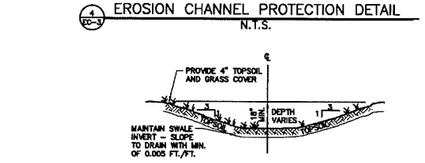
6 EC-3 INLET PROTECTION
N.T.S.



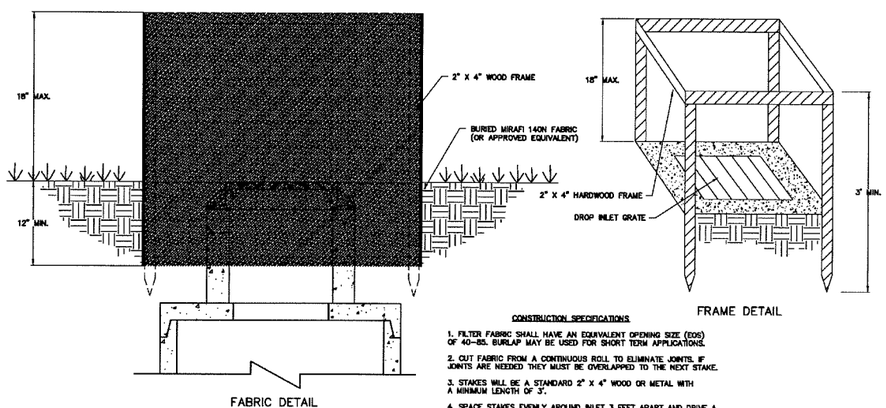
CONSTRUCTION SPECIFICATIONS

1. SET SPACING OF CHECK DAMS TO ASSURE THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT SAME ELEVATION OF THE TOE AS THE UPSTREAM DAM.
2. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
3. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
4. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONES.

7 EC-3 STONE CHECK DAM
N.T.S.



8 EC-3 TYPICAL DRAINAGE SWALE
N.T.S.

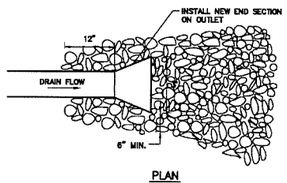


NOTE: TO BE INSTALLED DURING CONSTRUCTION FOR ALL NEW CATCH BASINS AS SOON AS THE CATCH BASINS ARE INSTALLED. UNTIL PAVEMENT IS PLACED TO RIM.

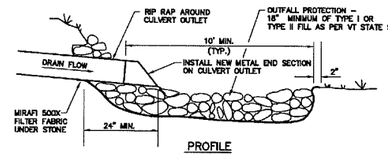
CONSTRUCTION SPECIFICATIONS

1. FILTER FABRIC SHALL HAVE AN EQUIVALENT OPENING SIZE (EOS) OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY MUST BE OVERLAPPED TO THE NEXT STAKE.
3. STAKES MUST BE A STANDARD 2" X 4" WOOD OR METAL WITH A MINIMUM LENGTH OF 3'.
4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
6. A 2" X 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.

9 EC-3 FILTER FABRIC DROP INLET PROTECTION
N.T.S.

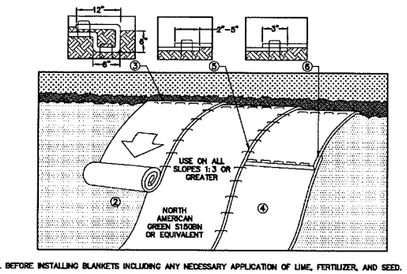


PLAN



PROFILE

10 EC-3 CULVERT OUTLET DETAIL
N.T.S.



1. PREPARE SOIL BEFORE INSTALLING BLANKETS INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS DOWN THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.
6. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

11 EC-3 SLOPE STABILIZATION DETAIL
N.T.S.

APPROVAL SIGNATURE BLOCK

UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BYLAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT DP09-21, THE WILLISTON DEVELOPMENT REVIEW BOARD APPROVED THE FINAL PLANS FOR THE ESSEX ALLIANCE CHURCH ON THE _____ DAY OF _____, 20__.

_____
DEVELOPMENT REVIEW BOARD PRESIDING MEMBER

APPLICATION NO: DP 09-21
TAX PARCEL NO: 8:102:28, 48

PERMIT SET

REVISION DATE & DESCRIPTION	BY
02/19/10 - REVISED PER TOWN COMMENTS	MEC
02/18/11 - REVISED	MEC
03/30/12 - REVISED TO REMOVE WETLAND IMPACT	MEC
09/10/12 - ISSUED FOR PERMITTING	MEC

Champlain Consulting ENGINEERS
85 PRIM ROAD, P.O. BOX 453
COLCHESTER, VERMONT 05446
(802) 863-8060 - 864-1878 FAX

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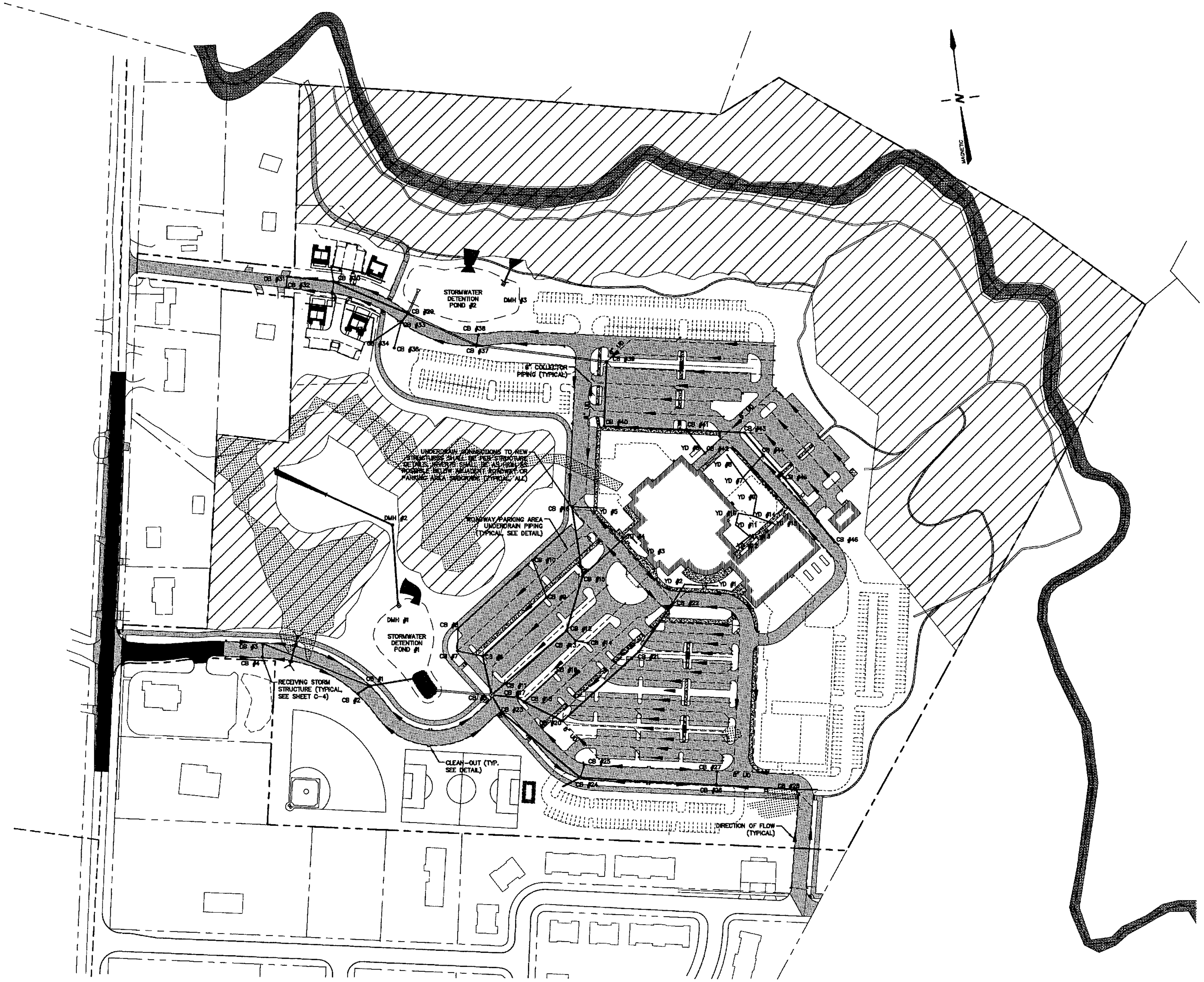
STATE OF VERMONT MARTIN E. CONNOLLY NO. 8745 CIVIL LICENSED PROFESSIONAL ENGINEER

ESSEX ALLIANCE CHURCH
ROUTE 2A / ESSEX ROAD
EROSION PREVENTION AND SEDIMENTATION CONTROL
EROSION & SEDIMENT DETAILS
WILLISTON VERMONT

DRAWN	CCE
CHECKED	MEC
SCALE	N.T.S.
DATE	12/15/09
JOB NO.	26141
SHEET	EC-3

OF 3 SHEETS



UNDERDRAIN PLAN

1 / UD-1

SCALE 1" = 100'

Graphic Scale: 100 0 100 200 300 400 feet

APPROVAL SIGNATURE BLOCK

UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BYLAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT DP09-21, THE WILLISTON DEVELOPMENT REVIEW BOARD APPROVED THE FINAL PLANS FOR THE ESSEX ALLIANCE CHURCH ON THE 26 DAY OF AUG, 2015

DEVELOPMENT REVIEW BOARD PRESIDING MEMBER

THIS TOPOGRAPHIC SURVEY WAS CONDUCTED WITHOUT THE BENEFIT OF "DIG SAFE" MARKINGS. UTILITIES SHOWN ARE NOT WARRANTED TO BE EXACT OR COMPLETE. THE CONTRACTOR SHALL CONTACT "DIG SAFE" AT 1-888-344-7233 BEFORE COMMENCING ANY WORK AND SHALL PRESERVE EXISTING UTILITIES WHICH ARE NOT PART OF THE DEMOLITION PLAN.

APPLICATION NO: DP 09-21
TAX PARCEL NO: 8:102:28, 48

PERMIT SET

REVISION DATE & DESCRIPTION	BY
03/02/11 – UNDERDRAIN PLAN SHEET ADDED	MEC
03/30/12 – REVISED TO REDUCE WETLAND IMPACT	MEC
09/10/12 – ISSUED FOR PERMITTING	MEC
07/02/13 – REVISED PRIMITIVE PATH LOCATION	MEC
01/23/15 – REVISED REC. PATH	MEC

Champlain Consulting ENGINEERS
85 PRIM ROAD, P.O. BOX 453
COLCHESTER, VERMONT 05446
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STATE OF VERMONT MARTIN E. COURCELLE NO. 8745 CIVIL LICENSED PROFESSIONAL ENGINEER

ESSEX ALLIANCE CHURCH
ROUTE 2A / ESSEX ROAD
UNDERDRAIN PLAN
WILLISTON VERMONT

DRAWN	CHECKED	SCALE	DATE	JOB NO.	SHEET
CCE	MEC	1" = 100'	03/02/11	26141	UD-1

OF 19 SHEETS

N:\sdsk\proj\26141\26141_UD01.dwg Fri Jan 23 14:38:10 2015 CCE/MEC