INDUSTRI-PLEX SITE
OU-1 COVER CERTIFICATION REPORT
LOCUS OF TAX MAP LOT 10-1-17 (AKA LOT IC-25)
N/F CITY OF WOBURN
RECORD DRAWINGS
WOBURN, MASSACHUSETTS
AUGUST 8, 2000

REFERENCE PLANS:

1. "REGIONAL TRANSPORTATION CENTER– WOBURN, MASSACHUSETTS" ALTERNATE COVER DESIGN– ISSUED FOR EPA/DEP APPROVAL, DATE ISSUED: MAY 16, 1995 LATEST ISSUE: JULY 26, 1996, BY VANASSE HANGEN BRUSTLIN, INC., WATERTOWN, MA

2. "INDUSTRIAL–PLEX SITE – WOBURN, MASSACHUSETTS – 100% DESIGN REPORT, PART I – REMEDIAL WORK FOR SOIL, SEDIMENTS AND AIR– VOLUME 7 OF 8", PREPARED BY GOLDER ASSOCIATES, MT. LAUREL, N.J., APRIL 25, 1992.

3a. "SUBDIVISION PLAN OF LAND – IN – WOBURN – MASSACHUSETTS – PREPARED FOR: NATIONAL DEVELOPMENT OF NEW ENGLAND.", SCALE 1"=120', DATED JULY 15, 1997 BY VANASSE HAGEN BRUSTLIN, INC. (RECORDED IN MRDSD AS PLAN NO. 1191 OF 1997.)

3b. "SUBDIVISION PLAN OF LAND IN WOBURN – PERFORMED BY MASSPORT SURVEY UNIT – OCTOBER 21, 1996", SCALE 1"=300', CERT. OF TITLE NO. 209396 BOOK 1188 PAGE 186, RECORDED AS PLAN NO.7312–Z ON JANUARY 18, 2000 AT SOUTH REGISTRY DISTRICT OF MIDDLESEX COUNTY.

4. "INDEX PLAN OF – LAND COURT SUBDIVISION – IN – WOBURN, MA" PREPARED FOR THE NORTHEAST REGIONAL TRANSPORTATION CENTER BY MASSACHUSETTS PORT AUTHORITY, DATED OCTOBER 21, 1996, SHEETS 1–6. LCC 7312.

5. "THE COMMONWEALTH OF MASSACHUSETTS – DEPARTMENT OF HIGHWAYS – PLAN AND PROFILE OF – ROUTE I–93 INTERCHANGE – IN THE CITY OF – WOBURN – MIDDLESEX COUNTY", SHEETS 18–23 OF 107, SCALE 1"=40' , PREPARED BY VHB, INC. PROJECT NO. 072310.

6. "THE COMMONWEALTH OF MASSACHUSETTS – PLAN OF ROAD – IN THE CITY OF – WOBURN – MIDDLESEX COUNTY – ALTERED AND LAID OUT AS A STATE HIGHWAY – BY THE DEPARTMENT OF HIGHWAYS", SCALE 1" = 40' DATED MAY 21, 1997, ON FILE AT THE COMMONWEALTH OF MASSACHUSETTS, DEPARTMENT OF HIGHWAYS AS LAYOUT NO. 7376, PROJECT FILE NO. 072310.

SURVEY CONTROL NETWORK POINTS

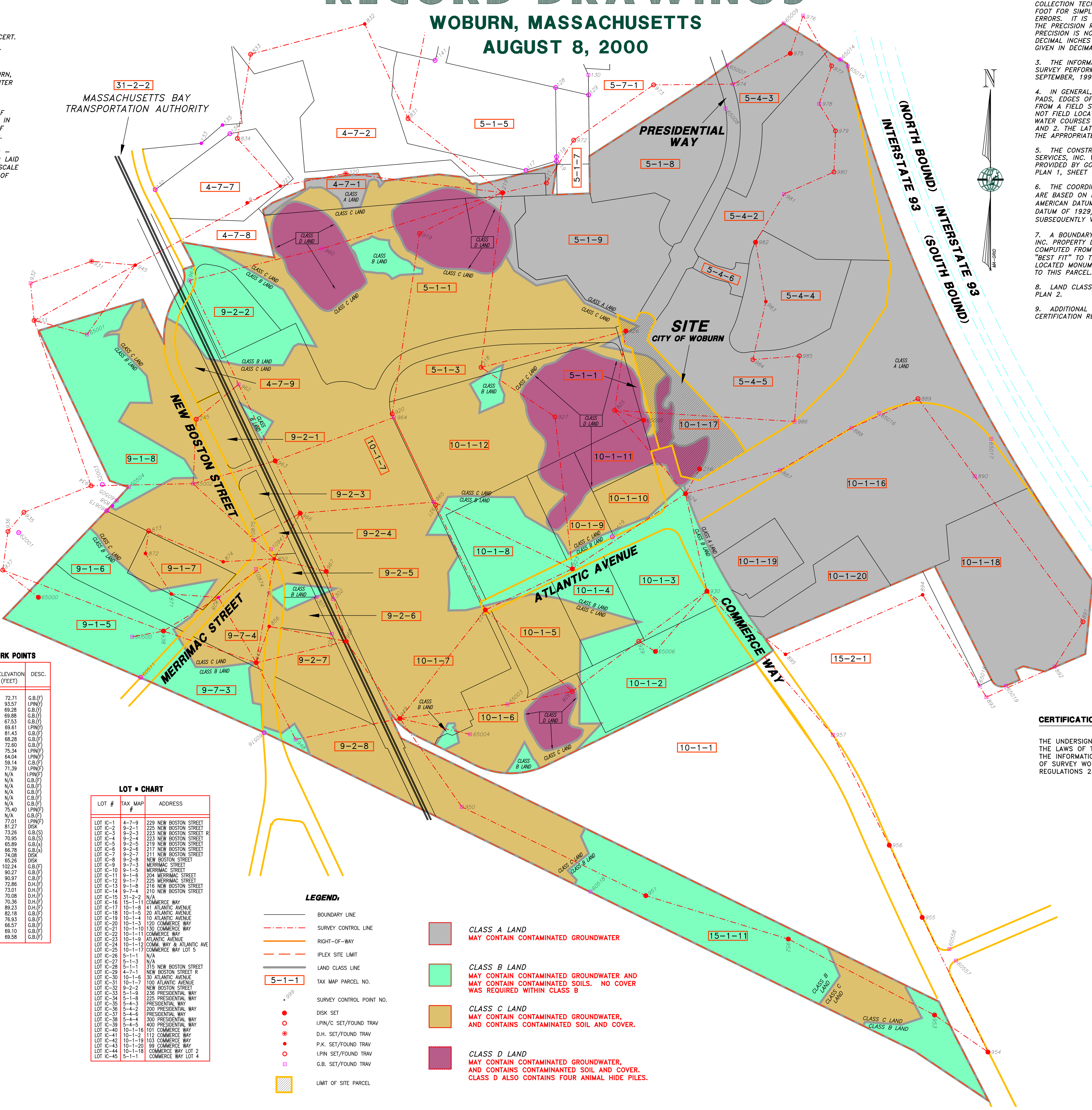
POINT #	NORTHING (FEET)	EASTING (FEET)	ELEVATION (FEET)	DESC.
8	555829.94	696197.41	88.93	PIN/C(s)
9	554787.93	695334.79	93.29	MAGNL(s)
117	554935.71	696605.05	119.44	I.PIN(f)
118	554997.69	696744.31	124.49	I.PIN(f)
119	554977.42	696743.93	125.72	I.PIN(f)
120	556005.46	696613.05	95.27	C.B.(f)
128	555312.88	696740.29	115.51	I.PIN(f)
129	555279.16	696890.59	117.47	I.PIN(f)
130	555370.20	696889.50	118.61	C.B.(f)
132	554847.71	694915.95	78.43	I.PIN(f)
133	555058.90	695126.18	96.01	P.K.(f)
134	555102.46	695256.34	96.55	I.PIN(f)
135	555142.01	695222.63	90.28	P.K.(f)
157	555902.41	696284.78	90.59	C.B.(f)
216	553575.07	697396.19	72.34	DISK
218	554038.23	696400.64	91.30	I.PIN(s)
219	554833.75	696498.97	113.51	DISK
220	554921.67	695784.06	73.06	D.H.(f)
221	554863.96	695486.38	98.35	P.K.(f)
245	553801.79	695102.81	70.74	PIN/C(s)
301	552991.99	695650.71	67.70	G.B.(f)
302	552983.08	695726.35	68.00	G.B.(f)
303	552824.40	695720.82	66.92	G.B.(f)
751	550314.48	698866.23	58.42	G.B.(f)
752	550363.63	698811.51	57.52	G.B.(f)
754	550089.43	697819.49	53.51	G.B.(f)
755	550155.77	697925.27	54.70	G.B.(f)
756	550192.19	698080.56	56.08	PIN/C(f)
828	552989.66	695204.98	72.68	RRSPK(S)
831	555171.27	696067.95	92.16	PIN/C(s)
832	555602.29	695870.66	86.06	P.K.(s)
833	555464.48	695350.57	78.24	PIN/C(s)
834	555080.77	695290.39	96.82	PIN/C(s)
850	553166.01	695458.74	66.79	P.K.(f)
857	554268.42	694914.00	73.19	PIN/C(S)
858	553407.27	694721.18	73.66	P.K.(S)
871	553005.63	694989.59	75.27	P.K.(s)
872	553190.49	694871.47	74.38	P.K.(s)
873	553293.14	694886.21	73.74	PIN/C(s)
874	553152.45	695225.83	72.96	P.K.(s)
887	553569.05	697762.19	74.67	G.B.(s)
888	553762.69	698088.18	75.46	G.B.(F)
889	553895.58	698391.10	74.41	PIN/C(s)
890	553542.21	698649.64	72.97	G.B.(S)
891	552879.28	699142.48	69.34	PIN/C(s)
892	552674.56	699013.57	68.58	G.B.(S)
893	552536.04	698702.70	69.67	G.B.(S)
894	553002.10	698412.19	69.40	MAGNL(s)
895	552730.89	697787.70	67.50	MAGNL(s)
919	554648.09	696120.30	106.02	PIN/C(s)
920	553826.01	695995.76	79.40	PIN/C(s)
921	553411.21	696193.36	78.92	PIN/C(s)
922	552932.88	696420.08	71.72	DISK
923	553120.20	696816.46	72.78	DISK
924	553462.61	697331.77	68.39	DISK
925	553842.55	697009.22	94.88	PIN/C(s)
926	554203.87	697060.28	79.00	DISK
927	553812.75	696737.39	107.69	PIN/C(s)
928	552561.74	696815.28	88.15	PIN/C(s)
929	552790.55	697119.09	71.75	PIN/C(s)
930	553018.55	697429.53	68.02	DISK
931	554521.49	694626.27	87.39	D.H.(f)
932	554421.26	694348.31	101.39	G.B.(f)
933	554251.87	694364.55	90.95	PIN/C(s)
934	553498.56	694623.81	69.94	PIN/C(s)
935	553378.01	694317.96	72.10	PIN/C(s)
936	553290.51	694245.09	81.03	PIN/C(s)
937	553114.85	694221.58	97.94	PIN/C(s)
938	552836.93	694953.72	80.60	DISK
944	550614.66	697637.80	N/A	G.B.(F)
945	554503.77	694825.96	74.68	P.K.(f)
947	552692.72	695376.15	65.92	DISK
948	552343.09	695555.77	63.57	G.B.(s)
949	552438.47	696030.92	71.73	DISK
950	552035.73	696313.53	68.40	G.B.(s)
951	551631.65	697151.14	65.87	DISK
952	551433.89	697800.32	73.68	DISK
953	551087.91	698466.50	63.64	DISK
954	550919.29	698709.73	60.45	DISK
955	551532.44	698410.23	63.71	DISK
956	551861.31	698260.16	65.21	DISK
957	552364.26	698003.18	67.73	G.B.(F)
960	554579.37	695677.56	96.32	G.B.(s)
961	554434.15	695071.84	85.91	G.B.(s)
962	553960.20	695295.87	79.76	G.B.(s)
963	553612.09	695462.70	78.81	DISK
964	553810.04	696003.71	79.67	G.B.(s)
965	553424.46	696186.34	79.67	G.B.(s)
966	553373.67	695576.30	77.68	DISK
967	553108.66	695695.24	76.92	DISK
968	552790.10	695786.11	73.69	DISK
971	554878.15	696698.61	129.11	PIN/C(s)
972	555073.02	696822.69	125.79	PIN/C(s)
973	555324.98	697186.40	117.15	PIN/C(s)
974	555328.29	697548.91	96.63	G.B.(f)
975	555468.38	697809.50	92.45	DISK
976	555640.49	697867.72	72.09	G.B.(s)
977	555411.42	697997.77	85.47	PIN/C(s)
978	555238.37	697940.64	70.49	G.B.(S)
979	555115.28	698015.18	87.78	PIN/C(s)
980	554928.03	698008.18	80.93	PIN/C(s)
981	554828.02	697781.52	67.51	G.B.(S)
982	554608.27	697651.96	76.95	DISK
983	554337.91	697697.91	77.28	MAGNL(s)
984	554073.15	697638.96	76.58	PIN/C(s)
985	554090.37	697850.88	75.15	PIN/C(s)

SURVEY CONTROL NETWORK POINTS

POINT #	NORTHING (FEET)	EASTING (FEET)	ELEVATION (FEET)	DESC.
986	553791.19	697828.87	72.71	G.B.(F)
1141	555436.21	696190.95	93.57	I.PIN(f)
10874	553119.80	695375.82	69.28	G.B.(f)
10875	553250.96	695361.95	69.88	G.B.(f)
10941	553209.59	695443.61	67.53	G.B.(f)
52003	553504.76	694675.40	69.61	I.PIN(f)
60500	552811.04	694811.44	81.43	G.B.(F)
60504	553493.08	694795.99	68.28	G.B.(F)
60505	553431.74	694740.48	72.60	G.B.(F)
60511	552626.22	694850.12	75.34	I.PIN(F)
60516	552373.95	695412.38	64.04	I.PIN(F)
60518	551650.24	696899.13	59.14	C.B.(F)
60519	553266.67	696998.63	71.39	I.PIN(F)
60545	550535.42	698962.56	N/A	I.PIN(F)
60549	550646.41	699172.79	N/A	G.B.(F)
60551	550588.82	697583.34	N/A	G.B.(F)
60552	550611.64	697561.55	N/A	G.B.(F)
60557	551335.71	698564.07	N/A	C.B.(F)
60558	551388.23	698534.25	N/A	G.B.(F)
60615	553385.09	694695.50	75.40	I.PIN(F)
60950	550705.00	699289.45	N/A	G.B.(F)
62001	553285.48	694294.18	77.01	I.PIN(F)
65000	552990.73	694384.08	81.27	DISK
65001	554187.89	694605.57	73.26	G.B.(S)
65002	553508.43	695088.74	70.95	G.B.(S)
65003	552503.26	696521.21	65.89	G.B.(s)
65004	552366.69	696350.85	66.78	G.B.(s)
65005	553796.88	697140.89	74.08	DISK
65006	552744.10	697194.90	65.26	DISK
65007	555414.66	697522.06	102.24	G.B.(F)
65008	555217.20	697514.54	90.27	G.B.(F)
65009	555605.36	697779.98	90.97	C.B.(F)
65010	555803.93	697977.42	72.86	D.H.(F)
65011	555708.75	697858.52	73.01	D.H.(F)
65012	555702.94	697888.20	70.08	D.H.(F)
65013	555745.19	697945.39	70.36	D.H.(F)
65014	555440.08	698036.86	89.23	D.H.(F)
65015	555409.32	698071.85	82.18	G.B.(F)
65016	553829.73	698214.01	76.93	G.B.(F)
65017	553712.31	698725.05	66.57	G.B.(F)
65018	552588.82	698672.03	69.10	G.B.(F)
65019	552588.11	698792.15	69.58	G.B.(F)

RESTRICTED AREAS BY CLASSES OF LAND

CLASS OF LAND	DESCRIPTION
A	MAY CONTAIN CONTAMINATED GROUNDWATER
B	MAY CONTAIN CONTAMINATED GROUNDWATER, AND MAY CONTAIN CONTAMINATED SOILS. NO COVER WAS REQUIRED WITHIN CLASS B.
C	MAY CONTAIN CONTAMINATED GROUNDWATER, AND CONTAINS CONTAMINATED SOIL AND COVER.
D	MAY CONTAIN CONTAMINATED GROUNDWATER, AND CONTAINS CONTAMINATED SOIL AND COVER. CLASS D ALSO CONTAINS FOUR ANIMAL HIDE PILES.



LOT # CHART

LOT #	TAX MAP #	ADDRESS
LOT IC-1	4-7-9	229 NEW BOSTON STREET
LOT IC-2	9-2-1	225 NEW BOSTON STREET
LOT IC-3	9-2-3	223 NEW BOSTON STREET R
LOT IC-4	9-2-4	223 NEW BOSTON STREET
LOT IC-5	9-2-5	219 NEW BOSTON STREET
LOT IC-6	9-2-6	217 NEW BOSTON STREET
LOT IC-7	9-2-7	211 NEW BOSTON STREET
LOT IC-8	9-2-8	NEW BOSTON STREET
LOT IC-9	9-7-3	MERRIMAC STREET
LOT IC-10	9-1-5	MERRIMAC STREET
LOT IC-11	9-1-6	204 MERRIMAC STREET
LOT IC-12	9-1-7	225 MERRIMAC STREET
LOT IC-13	9-1-8	216 NEW BOSTON STREET
LOT IC-14	9-7-4	210 NEW BOSTON STREET
LOT IC-15	31-2-2	N/A
LOT IC-16	15-1-11	COMMERCE WAY
LOT IC-17	10-1-8	41 ATLANTIC AVENUE
LOT IC-18	10-1-5	20 ATLANTIC AVENUE
LOT IC-19	10-1-4	10 ATLANTIC AVENUE
LOT IC-20	10-1-3	120 COMMERCE WAY
LOT IC-21	10-1-10	130 COMMERCE WAY
LOT IC-22	10-1-11	COMMERCE WAY
LOT IC-23	10-1-9	ATLANTIC AVENUE
LOT IC-24	10-1-12	COMM. WAY & ATLANTIC AVE
LOT IC-25	10-1-17	COMMERCE WAY LOT 5
LOT IC-26	5-1-1	N/A
LOT IC-27	5-1-3	N/A
LOT IC-28	5-1-1	315 NEW BOSTON STREET
LOT IC-29	4-7-1	NEW BOSTON STREET R
LOT IC-30	10-1-6	30 ATLANTIC AVENUE
LOT IC-31	10-1-7	100 ATLANTIC AVENUE
LOT IC-32	9-2-2	NEW BOSTON STREET
LOT IC-33	5-1-9	236 PRESIDENTIAL WAY
LOT IC-34	5-1-8	225 PRESIDENTIAL WAY
LOT IC-35	5-4-3	PRESIDENTIAL WAY
LOT IC-36	5-4-2	200 PRESIDENTIAL WAY
LOT IC-37	5-4-6	PRESIDENTIAL WAY
LOT IC-38	5-4-4	300 PRESIDENTIAL WAY
LOT IC-39	5-4-5	400 PRESIDENTIAL WAY
LOT IC-40	10-1-16	101 COMMERCE WAY
LOT IC-41	10-1-2	112 COMMERCE WAY
LOT IC-42	10-1-19	103 COMMERCE WAY
LOT IC-43	10-1-20	99 COMMERCE WAY
LOT IC-44	10-1-18	COMMERCE WAY LOT 2
LOT IC-45	5-1-1	COMMERCE WAY LOT 4

LEGEND:

- BOUNDARY LINE
- SURVEY CONTROL LINE
- RIGHT-OF-WAY
- IPLEX SITE LIMIT
- LAND CLASS LINE
- 5-1-1 TAX MAP PARCEL NO.
- 999 SURVEY CONTROL POINT NO.
- DISK SET
- I.PIN/C SET/FOUND TRAV
- D.H. SET/FOUND TRAV
- P.K. SET/FOUND TRAV
- I.PIN SET/FOUND TRAV
- G.B. SET/FOUND TRAV
- LIMIT OF SITE PARCEL

CLASS A LAND
MAY CONTAIN CONTAMINATED GROUNDWATER

CLASS B LAND
MAY CONTAIN CONTAMINATED GROUNDWATER AND MAY CONTAIN CONTAMINATED SOILS. NO COVER WAS REQUIRED WITHIN CLASS B

CLASS C LAND
MAY CONTAIN CONTAMINATED GROUNDWATER, AND CONTAINS CONTAMINATED SOIL AND COVER.

CLASS D LAND
MAY CONTAIN CONTAMINATED GROUNDWATER, AND CONTAINS CONTAMINANTED SOIL AND COVER. CLASS D ALSO CONTAINS FOUR ANIMAL HIDE PILES.

NOTES:

1. THE OWNER OF RECORD FOR LOT 10–1–17 IS (NOW OR FORMERLY) THE CITY OF WOBURN – CITY HALL, – 10 COMMON ST. WOBURN, MASSACHUSETTS 01801. DEED REFFRENCE TO PARCEL IS BOOK 27845 PAGE 284, DATED OCTOBER 23, 1997 (RECORDED LAND) FILED IN THE SOUTH REGISTRY DISTRICT OF MIDDLESEX COUNTY.

2. ELEVATION RECORDS TABULATED ON THESE DRAWINGS WERE COMPILED FROM FIELD OBSERVATIONS COLLECTED BY ELECTRONIC TOTAL STATION AND DATA COLLECTION TECHNIQUES. ELEVATIONS ARE SHOWN TO ONE HUNDREDTH OF A FOOT FOR SIMPLICITY OF TABULATION AND TO REDUCE COMPOUNDING ROUNDING ERRORS. IT IS THE INTENTION OF THE SURVEY TO REFLECT ELEVATIONS ONLY TO THE PRECISION REQUIRED BY THE PROJECT SPECIFICATIONS. ADDITIONAL PRECISION IS NOT IMPLIED BY THE TABULATION. COVER DEPTHS ARE GIVEN IN DECIMAL INCHES AND CALCULATED BY MULTIPLYING THE ELEVATION DIFFERENCES GIVEN IN DECIMAL FEET BY 12.

3. THE INFORMATION CONTAINED HEREIN IS THE RESULT OF AN ON–SITE FIELD SURVEY PERFORMED BY MERIDIAN LAND SERVICES, INC. DURING THE PERIOD OF SEPTEMBER, 1993 THROUGH JANUARY, 2000.

4. IN GENERAL, PLAN GRAPHICS SUCH AS BUILDINGS, WALKWAYS, CONCRETE PADS, EDGES OF PAVEMENT, CURBING, DRAINAGE FEATURES, ETC. WERE LOCATED FROM A FIELD SURVEY BY THIS OFFICE. ADDITIONAL GRAPHIC REPRESENTATIONS, NOT FIELD LOCATED, SUCH AS NON–GERMANE EDGES OF PAVEMENT, FENCE LINES, WATER COURSES AND ABUTTING DETAIL WERE TAKEN FROM REFERENCE PLANS 1 AND 2. THE LATTER MENTIONED DETAIL WILL BE REFERENCED ON THE PLAN WITHIN THE APPROPRIATE AREAS.

5. THE CONSTRUCTION SURVEY CONTROL NETWORK USED BY MERIDIAN LAND SERVICES, INC. WAS DERIVED ENTIRELY FROM THE EXISTING SITE CONTROL POINTS PROVIDED BY GOLDER ASSOCIATES AND VHB, INC., AS SHOWN ON REFERENCE PLAN 1, SHEET C–2 AND REFERENCE PLAN 2, SHEETS 11–1A THRU 11–1D.

6. THE COORDINATES AND ELEVATIONS OF THE EXISTING SITE CONTROL POINTS ARE BASED ON MASSACHUSETTS GRID COORDINATE SYSTEM/NAD–27 (NORTH AMERICAN DATUM OF 1927) AND NGVD–29 (THE NATIONAL GEODETIC VERTICAL DATUM OF 1929), AS STATED IN THE REFERENCE PLAN 2 NOTE 3 & SUBSEQUENTLY VERIFIED BY THIS OFFICE VIA GPS (GLOBAL POSITIONING) IN 2001.

7. A BOUNDARY "TIE IN" SURVEY WAS PERFORMED BY MERIDIAN LAND SERVICES, INC. PROPERTY LINES SHOWN HEREON WERE COMPILED AND MATHEMATICALLY COMPUTED FROM LAND COURT CASE NUMBER 7312. THESE COMPUTED PLANS WERE "BEST FIT" TO THE PROJECT COORDINATE SYSTEM USING NUMEROUS FIELD LOCATED MONUMENTS. SEE REFERENCE PLAN #3 FOR BOUNDARY LINES PERTAINING TO THIS PARCEL.

8. LAND CLASSIFICATION LINES SHOWN HEREON WERE TAKEN FROM REFERENCE PLAN 2.

9. ADDITIONAL SITE–WIDE INFORMATION CAN BE FOUND IN THE MASTER COVER CERTIFICATION REPORT, INCLUDING, MASTER RECORD DRAWINGS.

DIG SAFE 1-888-344-7233

CERTIFICATION:

THE UNDERSIGNED, A DULY REGISTERED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE COMMONWEALTH OF MASSACHUSETTS, HEREBY CERTIFIES THAT THE INFORMATION ON THESE RECORD PLANS CONTAINED HEREIN IS THE RESULT OF SURVEY WORK PERFORMED IN CONFORMANCE WITH THE CODE OF MASSACHUSETTS REGULATIONS 250, SECTION 6.03.

FINAL

PROFESSIONAL LAND SURVEYOR — DATE

GRAPHIC SCALE: 200' 100' 0 200' 400' 600'

REV.	DATE	DESCRIPTION	DR	CK
I	9/30/08	FINAL SUBMISSION	DBH	MDP
H	2/8/08	EPA COMMENTS OF 1/22/08	DBH	MDP
G	9/28/07	EPA & DEP COMMENTS OF 8/29/07	CAC	MDP
F	5/1/06	EPA & DEP COMMENTS OF 8/3/06	CAC	MDP
E	9/21/05	EPA & DEP COMMENTS OF 7/12/04	MDP	JGK
D	6/11/04	EPA & DEP COMMENTS OF 10/30/03	MDP	JGK
C	10/16/03	DEP REVISIONS	MDP	JGK
B	8/12/01	EPA REVISIONS	MDP	JGK
A	8/8/00	ISSUE FOR REVIEW	MDP	JGK

FINAL — PROFESSIONAL LAND SURVEYOR

PROFESSIONAL ENGINEER

PREPARED FOR: ROUX ASSOCIATES, INC. Environmental Consulting & Management

PREPARED BY: MERIDIAN Land Services, Inc. ENGINEERS • LAND SURVEYORS • SCIENTISTS • LAND PLANNERS

DESIGNED BY: Golder Associates, Manchester, New Hampshire, 400 Commercial Street, Manchester, N.H. USA 03101, 603-668-0880 • FAX 603-668-1199

PROJECT RECORD (TAX MAP LOT 10-1-17)

N/F CITY OF WOBURN

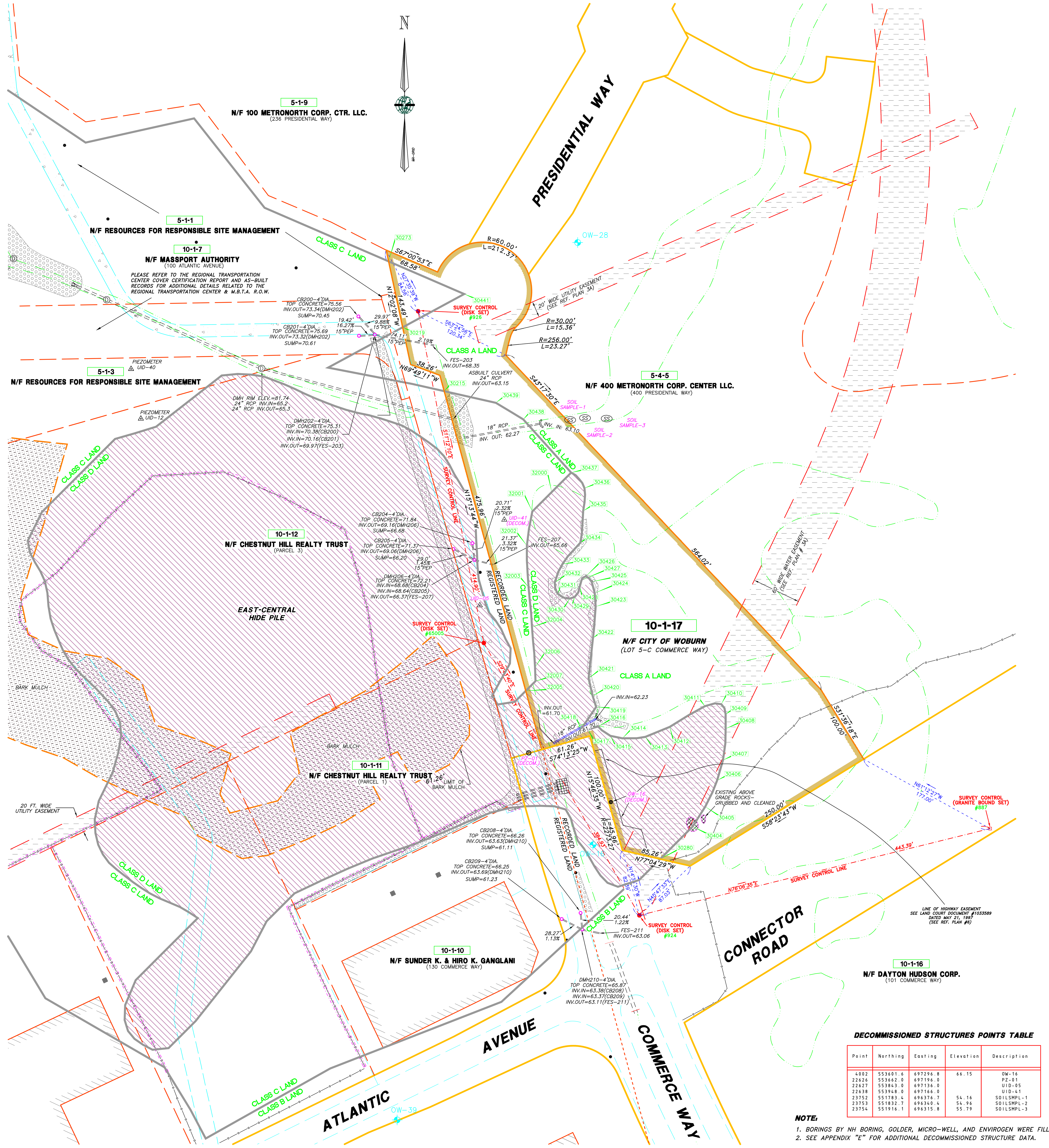
INDUSTRI-PLEX SITE REMEDIAL TRUST WOBURN, MASSACHUSETTS

SCALE: 1" = 200' — AUGUST 8, 2000

DESIGNED BY: MDP
DRAFTED BY: MDP
CHECKED BY: JGK
FILE: 29001121.dwg
DO NOT SCALE DRAWING

C-19 SHEET NO.

PROJECT: 2900.00



LEGEND

ASBUILT COVER TYPE; TEST PIT; MONITOR WELL; BORING LOCATION; MICRO WELL LOCATION; PIEZOMETER LOCATION; SOIL SAMPLE LOCATION; STAFF GUAGE LOCATION; TENSIOMETER LOCATION; UID LOCATION; MONITORING WELL LOCATION; HYDRANT; GATE VALVE; CATCH BASIN (SQUARE); CATCH BASIN (ROUND); DRAIN MANHOLE; SEWER MANHOLE; UTILITY POLE; GUY WIRE; ASBUILT POINT NO. & LOCATION; GAS METER; GAS SHUT OFF; WATER SHUT OFF; WATER CONTROL BOX; SIGN; BOLLARD; TELEPHONE MANHOLE

BOUNDARY LINE; RIGHT-OF-WAY; ABUTTING PROPERTY LINES; ASPHALT, CONCRETE, GRANITE CURB; TRANSITION ZONE; LAND CLASS LINE; GRID LINE; EDGE OF EXISTING PAVEMENT; LIMIT OF GEOTEXTILE; A.T.&T. FIBER OPTIC CABLE; TOE OF SLOPE; TOP OF SLOPE; LIMIT CHAIN LINK FENCE; EDGE OF ASBUILT GRAVEL ROAD; BACK EDGE OF PLANTER; EDGE OF PROPOSED PAVEMENT; EXISTING EASEMENT; ASBUILT CULVERT; LIMIT OF TREELINE; EXISTING CONCRETE STRUCTURE; SURVEY CONTROL MONUMENT (GRANITE BOUND SET); SURVEY CONTROL MONUMENT (DISK SET); SURVEY CONTROL MONUMENT (PIN/CAP SET)

LIMITS OF EXISTING EASEMENTS; EDGE OF EXISTING BUILDINGS; AREA OF LEDGE; HIDE PILES BASED ON CONSENT DECREE; LIMITS OF RIPRAP = 6" STONE; AREA OF ENGINEERED COVER (COMPLIES WITH TOOR DESIGN PLANS UNLESS OTHERWISE STATED); ASBUILT FINISH GRADE CONTOUR 5' INTERVAL; ASBUILT FINISH GRADE CONTOUR 1' INTERVAL; OVERHEAD WIRES; UNDERGROUND GAS LINE; POINT MARKER (SEE POINTS CHART); TIE COURSE; SURVEY CONTROL LINE; DECOMMISSIONED WELL PER REFERENCE PLAN #2

SURVEY CONTROL NETWORK POINTS

POINT #	NORTHING (FEET)	EASTING (FEET)	ELEVATION (FEET)	DESC.
8	555829.94	696197.41	88.93	PIN/C(s)
9	554787.93	695334.79	93.29	MAGNL(s)
117	554935.71	696605.05	119.44	I.PIN(f)
118	554997.69	696744.31	124.49	I.PIN(f)
119	554977.42	696743.93	125.72	I.PIN(f)
120	556005.46	696613.05	95.27	C.B.(f)
128	555312.88	696740.29	115.51	I.PIN(f)
129	555279.16	696890.59	117.47	I.PIN(f)
130	555370.20	696889.50	118.61	C.B.(f)
132	554847.71	694915.95	78.43	I.PIN(f)
133	555058.90	695126.18	96.01	P.K.(f)
134	555102.46	695256.34	96.55	I.PIN(f)
135	555142.01	695222.63	90.28	P.K.(f)
157	555902.41	696284.78	90.59	C.B.(f)
216	553575.07	697396.19	72.34	DISK
218	554038.23	696400.64	91.30	I.PIN(s)
219	554833.75	696498.97	113.51	DISK
220	554921.67	695784.06	73.06	D.H.(f)
221	554863.96	695486.38	98.35	P.K.(f)
245	553801.79	695102.81	70.74	PIN/C(s)
301	552991.99	695650.71	67.70	G.B.(f)
302	552983.08	695726.35	68.00	G.B.(f)
303	552824.40	695720.82	66.92	G.B.(f)
751	550314.48	698866.23	58.42	G.B.(f)
752	550363.63	698811.51	57.52	G.B.(f)
754	550089.43	697819.49	53.51	G.B.(f)
755	550155.77	697925.27	54.70	G.B.(f)
756	550192.19	698080.56	56.08	PIN/C(f)
828	552989.66	695204.98	72.68	RRSPK(S)
831	555171.27	696067.95	92.16	PIN/C(s)
832	555602.29	695870.66	86.06	P.K.(s)
833	555464.48	695350.57	78.24	PIN/C(s)
834	555080.77	695290.39	96.82	PIN/C(s)
850	553166.01	695458.74	66.79	P.K.(f)
857	554268.42	694914.00	73.19	PIN/C(S)
858	553407.27	694721.18	73.66	P.K.(S)
871	553005.63	694989.59	75.27	P.K.(s)
872	553190.49	694871.47	74.38	P.K.(s)
873	553293.14	694886.21	73.74	PIN/C(s)
874	553152.45	695225.83	72.96	P.K.(s)
887	553569.05	697762.19	74.67	G.B.(s)
888	553762.69	698088.18	75.46	G.B.(F)
889	553895.58	698391.10	74.41	PIN/C(s)
890	553542.21	698649.64	72.97	G.B.(S)
891	552879.28	699142.48	69.34	PIN/C(s)
892	552674.56	699013.57	68.58	G.B.(S)
893	552536.04	698702.70	69.67	G.B.(S)
894	553002.10	698412.19	69.40	MAGNL(s)
895	552730.89	697787.70	67.50	MAGNL(s)
919	554648.09	696120.30	106.02	PIN/C(s)
920	553826.01	695995.76	79.40	PIN/C(s)
921	553411.21	696193.36	78.92	PIN/C(s)
922	552932.88	696420.08	71.72	DISK
923	553120.20	696816.46	72.78	DISK
924	553462.61	697331.77	68.39	DISK
925	553842.55	697009.22	94.88	PIN/C(s)
926	554203.87	697060.28	79.00	DISK
927	553812.75	696737.39	107.69	PIN/C(s)
928	552561.74	696815.28	88.15	PIN/C(s)
929	552790.55	697119.09	71.75	PIN/C(s)
930	553018.55	697429.53	68.02	DISK
931	554521.49	694626.27	87.39	D.H.(f)
932	554421.26	694348.31	101.39	G.B.(f)
933	554251.87	694364.55	90.95	PIN/C(s)
934	553498.56	694623.81	69.94	PIN/C(s)
935	553378.01	694317.96	72.10	PIN/C(s)
936	553290.51	694245.09	81.03	PIN/C(s)
937	553114.85	694221.58	97.94	PIN/C(s)
938	552836.93	694953.72	80.60	DISK
944	550614.66	697637.80	N/F	G.B.(F)
945	554503.77	694825.96	74.68	P.K.(f)
947	552692.72	695376.15	65.92	DISK
948	552343.09	695555.77	63.57	G.B.(s)
949	552438.47	696030.92	71.73	DISK
950	552035.73	696313.53	68.40	G.B.(s)
951	551631.65	697151.14	65.87	DISK
952	551433.89	697800.32	73.68	DISK
953	551087.91	698466.50	63.64	DISK
954	550919.29	698709.73	60.45	DISK
955	551532.44	698410.23	63.71	DISK
956	551861.31	698260.16	65.21	DISK
957	552364.26	698003.18	67.73	G.B.(F)
960	554579.37	695677.56	96.32	G.B.(s)
961	554434.15	695071.84	85.91	G.B.(s)
962	553960.20	695295.87	79.76	G.B.(s)
963	553612.09	695462.70	78.81	DISK
964	553810.04	696003.71	79.67	G.B.(s)
965	553424.46	696186.34	79.67	G.B.(s)
966	553373.67	695576.30	77.68	DISK
967	553108.66	695695.24	76.92	DISK
968	552790.10	695786.11	73.69	DISK
971	554878.15	696698.61	129.11	PIN/C(s)
972	555073.02	696822.69	125.79	PIN/C(s)
973	555324.98	697186.40	117.15	PIN/C(s)
974	555328.29	697548.91	96.63	G.B.(f)
975	555468.38	697809.50	92.45	DISK
976	555640.49	697867.72	72.09	G.B.(s)
977	555411.42	697997.77	85.47	PIN/C(s)
978	555238.37	697940.64	70.49	G.B.(S)
979	555115.28	698015.18	87.78	PIN/C(s)
980	554928.03	698008.18	80.93	PIN/C(s)
981	554828.02	697781.52	67.51	G.B.(S)
982	554608.27	697651.96	76.95	DISK
983	554337.91	697697.91	77.28	MAGNL(s)
984	554073.15	697638.96	76.58	PIN/C(s)
985	554090.37	697850.88	75.15	PIN/C(s)

LAND CLASS RESTRICTED AREAS POINTS CHART

NUMBER	NORTHING*	EASTING*	BEARING	LENGTH
30273	554265.1	697024.0	S66°38'16"E	101.04'
30441	554225.0	697116.8	S61°35'55"W	85.84'
30219	554184.2	697041.3	N12°02'09"W	82.71'
30273	554265.1	697024.0		
30215	554105.8	697092.2	S77°16'56"E	64.97'
30439	554091.5	697155.6	S58°53'25"E	39.40'
30438	554071.2	697189.3	S41°56'16"E	87.80'
30437	554005.9	697248.0	S45°00'00"W	33.70'
32000	553982.0	697224.2	S45°00'00"W	33.70'
32001	553958.2	697200.4	S08°56'33"W	42.47'
32002	553916.2	697193.8	S02°19'22"E	51.01'
32003	553865.3	697195.8	S04°53'24"E	49.03'
32004	553816.4	697200.0	S04°20'22"E	49.43'
32006	553767.1	697203.7	S01°48'25"E	17.15'
32007	553750.0	697204.3	S45°00'00"W	16.87'
32005	553737.6	697191.9		
30280	553531.8	697357.3	N45°00'00"E	56.34'
30404	553571.6	697397.1	N32°30'57"E	28.91'
30405	553596.0	697412.7	N24°18'35"E	35.38'
30406	553628.2	697427.2	N16°02'24"E	25.82'
30407	553653.0	697434.4	N04°52'59"E	38.78'
30408	553691.7	697437.7	N00°06'14"W	17.65'
30409	553709.3	697437.6	N23°26'50"W	13.44'
30410	553721.7	697432.3	S83°12'18"W	20.21'
30411	553719.3	697412.2	S59°26'52"W	50.10'
30412	553693.8	697369.1	S67°45'00"W	32.32'
30413	553681.6	697339.2	S86°29'26"W	28.30'
30414	553679.8	697310.9	N78°24'26"W	14.97'
30415	553682.8	697296.2	N52°28'45"W	18.91'
30416	553694.4	697281.2	S74°21'46"W	12.75'
30417	553690.9	697269.0	N88°01'30"W	8.55'
30418	553691.2	697260.4	N33°59'43"E	32.74'
30419	553718.4	697278.7	N17°41'16"W	14.07'
30420	553731.8	697274.4	N12°55'45"W	22.13'
30421	553753.3	697269.5	N06°09'20"E	49.82'
30422	553802.9	697274.8	N04°55'07"E	38.82'
30423	553841.6	697278.2	N04°05'28"W	16.54'
30424	553858.1	697277.0	N15°11'50"W	14.41'
30425	553872.0	697273.2	N47°18'16"W	9.76'
30426	553878.6	697266.0	S49°06'52"W	6.94'
30427	553874.0	697260.8	S14°56'22"W	7.98'
30428	553866.3	697258.7	S26°11'59"W	14.58'
30429	553853.2	697252.3	S72°17'07"W	6.11'
30430	553851.4	697246.5	N68°44'50"W	15.73'
30431	553857.1	697231.8	N15°52'19"W	14.31'
30432	553870.8	697227.9	N22°40'29"E	24.79'
30433	553893.7	697237.5	N39°53'57"E	34.05'
30434	553919.8	697259.3	N05°11'26"E	39.14'
30435	553958.8	697262.8	N03°05'36"E	28.07'
30436	553986.8	697264.4	N40°39'37"W	25.07'
30437	554005.9	697248.0		

SURVEY CONTROL NETWORK POINTS

POINT #	NORTHING (FEET)	EASTING (FEET)	ELEVATION (FEET)	DESC.
986	553791.19	697828.87	72.71	G.B.(F)
1141	555436.21	696190.95	93.57	I.PIN(f)
10874	553119.80	695375.82	69.28	G.B.(f)
10875	553250.96	695361.95	69.88	G.B.(f)
10941	553209.59	695443.61	67.53	G.B.(f)
52003	553504.76	694675.40	69.61	I.PIN(f)
60500	552811.04	694811.44	81.43	G.B.(F)
60504	553493.08	694795.99	68.28	G.B.(F)
60505	553431.74	694740.48	72.60	G.B.(F)
60511	552626.22	694850.12	75.34	I.PIN(F)
60516	552373.95	695412.38	64.04	I.PIN(F)
60518	551650.24	696899.13	59.14	C.B.(F)
60519	553266.67	696998.63	71.39	I.PIN(F)
60545	550535.42	698962.56	N/F	I.PIN(F)
60549	550646.41	699172.79	N/F	G.B.(F)
60551	550588.82	697583.34	N/F	G.B.(F)
60552	550611.64	697561.55	N/F	G.B.(F)
60557	551335.71	698564.07	N/F	C.B.(F)
60558	551388.23	698534.25	N/F	G.B.(F)
60615	553385.09	694695.50	75.40	I.PIN(F)
60950	550705.00	699289.45	N/F	G.B.(F)
62001	553285.48	694294.18	77.01	I.PIN(F)
65000	552990.73	694384.08	81.27	DISK
65001	554187.89	694605.57	73.26	G.B.(S)
65002	553508.43	695088.74	70.95	G.B.(S)
65003	552503.26	696521.21	65.89	G.B.(s)
65004	552366.69	696350.85	66.78	G.B.(s)
65005	553796.88	697140.89	74.08	DISK
65006	552744.10	697194.90	65.26	DISK
65007	555414.66	697522.06	102.24	G.B.(F)
65008	555217.20	697514.54	90.27	G.B.(F)
65009	555605.36	697779.98	90.97	C.B.(F)
65010	555803.93	697977.42	72.86	D.H.(F)
65011	555708.75	697858.52	73.01	D.H.(F)
65012	555702.94	697888.20	70.08	D.H.(F)
65013	555745.19	697945.39	70.36	D.H.(F)
65014	555440.08	698036.86	89.23	D.H.(F)
65015	555409.32	698071.85	82.18	G.B.(F)
65016	553829.73	698214.01	76.93	G.B.(F)
65017	553712.31	698725.05	66.57	G.B.(F)
65018	552588.82	698672.03	69.10	G.B.(F)
65019	552588.11	698792.15	69.58	G.B.(F)

RESTRICTED AREAS BY CLASSES OF LAND

CLASS OF LAND	DESCRIPTION
A	MAY CONTAIN CONTAMINATED GROUNDWATER
B	MAY CONTAIN CONTAMINATED GROUNDWATER, AND MAY CONTAIN CONTAMINATED SOILS. NO COVER WAS REQUIRED WITHIN CLASS B.
C	MAY CONTAIN CONTAMINATED GROUNDWATER, AND CONTAINS CONTAMINATED SOIL AND COVER.
D	MAY CONTAIN CONTAMINATED GROUNDWATER, AND CONTAINS CONTAMINATED SOIL AND COVER. CLASS D ALSO CONTAINS FOUR ANIMAL HIDE PILES.

DECOMMISSIONED STRUCTURES POINTS TABLE

Point	Northing	Easting	Elevation	Description
4002	553601.6	697296.8	66.15	OW-16
22626	553662.0	697196.0		PZ-01
22627	553843.0	697136.0		UID-05
22638	553948.0	697166.0		UID-41
23752	551783.4	696376.7	54.16	SOILSMPL-1
23753	551832.7	696340.4	54.96	SOILSMPL-2
23754	551916.1	696315.8	55.79	SOILSMPL-3

NOTE:

1. BORINGS BY NH BORING, GOLDER, MICRO-WELL, AND ENVIROGEN WERE FILLED WITH GROUT.
2. SEE APPENDIX "E" FOR ADDITIONAL DECOMMISSIONED STRUCTURE DATA.

GRAPHIC SCALE
50' 25' 0 50' 100' 150'

REV.	DATE	DESCRIPTION		
I	9/30/08	FINAL SUBMISSION	DBH	MDP
H	2/8/08	EPA COMMENTS OF 1/22/08	DBH	MDP
G	9/28/07	EPA & DEP COMMENTS OF 8/29/07	CAC	MDP
F	5/1/07	EPA & DEP COMMENTS OF 8/3/06	CAC	MDP
E	9/21/05	EPA & DEP COMMENTS OF 7/12/04	MDP	JGK
D	6/11/04	EPA & DEP COMMENTS OF 10/30/03	MDP	JGK
C	10/16/03	DEP REVISIONS	MDP	JGK
B	8/12/01	EPA REVISIONS	MDP	JGK
A	8/8/00	ISSUE FOR REVIEW	MDP	JGK
			DR	CK

FINAL

PROFESSIONAL LAND SURVEYOR

PROFESSIONAL ENGINEER

PREPARED FOR: ROUX ASSOCIATES, INC. Environmental Consulting & Management

PREPARED BY: MERIDIAN Land Services, Inc. ENGINEERS - LAND SURVEYORS - SCIENTISTS - LAND PLANNERS

DESIGNED BY: Golder Associates, Manchester, New Hampshire, 400 Commercial Street, Manchester, N.H. USA 03101, 603-668-0880 • FAX 603-668-1199

PROJECT RECORD (TAX MAP LOT 10-1-17)

BOUNDARY LINES, LAND CLASSIFICATIONS, EASEMENTS AND ASBUILT DRAINAGE

INDUSTRI-PLEX SITE REMEDIAL TRUST WOBURN, MASSACHUSETTS

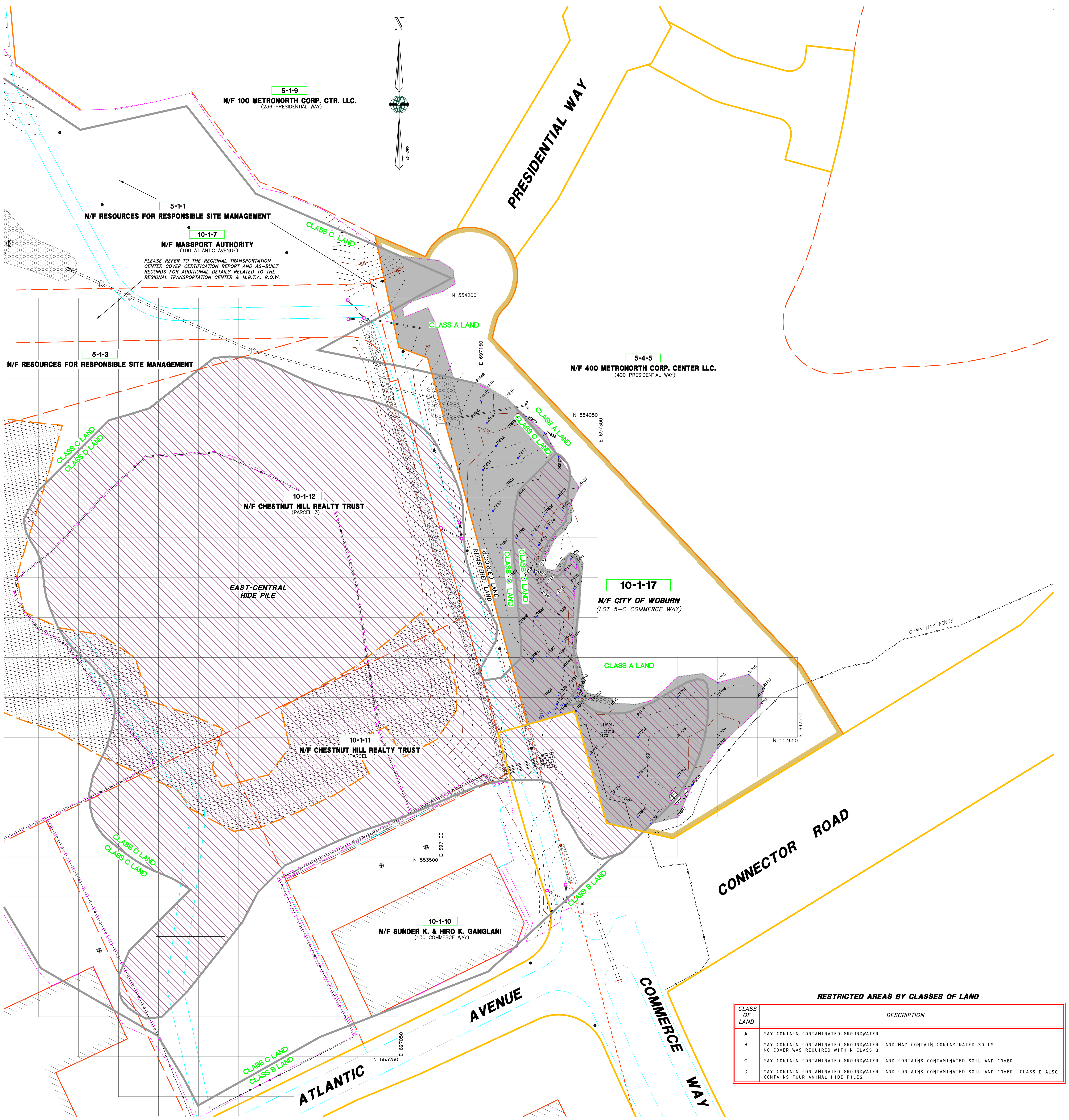
SCALE: 1" = 50' MDP

DESIGNED BY: MDP
DRAFTED BY: MDP
CHECKED BY: JGK
FILE: 2900112l2.dwg
DO NOT SCALE DRAWING

C-20 SHEET NO.

PROJECT: 2900.00

SHEET 2 OF 5



LEGEND

Symbol	Description	Symbol	Description
	BOUNDARY LINE	(33)	ASBUILT COVER TYPE
	RIGHT-OF-WAY		TEST PIT
	ABUTTING PROPERTY LINES		MONITOR WELL
	ASPHALT, CONCRETE, GRANITE CURB		HYDRANT
	TRANSITION ZONE		GATE VALVE
	LAND CLASS LINE		CATCH BASIN (SQUARE)
N 551,000	GRID LINE		CATCH BASIN (ROUND)
	EDGE OF EXISTING PAVEMENT		DRAIN MANHOLE
	LIMIT OF GEOTEXTILE		SEWER MANHOLE
	A.T.&T. FIBER OPTIC CABLE		UTILITY POLE
	TOE OF SLOPE		GUY WIRE
	TOP OF SLOPE	+14000	ASBUILT POINT NO. & LOCATION
	LIMIT CHAIN LINK FENCE		GAS METER
	EDGE OF ASBUILT GRAVEL ROAD		GAS SHUT OFF
	BACK EDGE OF PLANTER		WATER SHUT OFF
	EDGE OF PROPOSED PAVEMENT		WATER CONTROL BOX
	EXISTING EASEMENT		SIGN
	ASBUILT CULVERT		TELEPHONE MANHOLE
	LIMIT OF TREELINE		BORING LOCATION
	EXISTING CONCRETE STRUCTURE		MICRO WELL LOCATION
	ASBUILT FINISH GRADE CONTOUR 5' INTERVAL		PIEZOMETER LOCATION
	ASBUILT FINISH GRADE CONTOUR 1' INTERVAL		SOIL SAMPLE LOCATION
OHW	OVERHEAD WIRES		STAFF GUAGE LOCATION
UGG	UNDERGROUND GAS LINE		TENSIOMETER LOCATION
			UID LOCATION
	LIMITS OF EXISTING EASEMENTS		MONITORING WELL LOCATION
	EDGE OF EXISTING BUILDINGS		
	AREA OF LEDGE		HIDE PILES BASED ON CONSENT DECREE
	AREA OF ENGINEERED COVER (COMPLIES WITH 100% DESIGN PLANS UNLESS OTHERWISE STATED)		LIMITS OF RIPRAP = 6" STONE

TABLE REMARKS

A	IN RIP RAP- SUBGRADE AND FINISH GRADE ONLY
B	IN GRAVEL ROAD- SUBGRADE AND FINISH GRADE ONLY
C	CULVERT- ONLY SUBGRADE AND FINISH GRADE
D	REMEDIATION IN PROGRESS
E	UNABLE TO COLLECT
F	ON CLAY BERM- NO SUBGRADE
G	BOX CULVERT SUBGRADE ONLY
H	TOP OF BANK OF UTILITY CORRIDOR- SUBGRADE ONLY
I	CREATED WETLANDS STREAM- SEE COVER GRADE
J	FINISH GRADE ON CONCRETE WEIR
K	NO "TEWKSBURY" LOAM APPLIED
L	NOT COLLECTED
M	OUTSIDE LIMIT OF CLAY GRADE
N	UNDER WATER
P	AT TRANSITION- NO COVER GRADE
Q	IN GRAVEL ROAD- SEE ADJACENT SUBGRADE
R	IN GRAVEL ROAD- SEE ADJACENT FINISH GRADE
S	IN GRAVEL ROAD AT UTILITY CORRIDOR- NO SUBGRADE

POINT DESCRIPTORS

A	AERO	HYD	HYDRANT
BEOP	BACK EDGE OF PLANTER	K	KOSTER
BLDG	BUILDING	LIM	LIMIT
BNDY	BOUNDARY	MW	MONITOR WELL
BR	BREAK IN SLOPE	P	PEBCO (NOW WJP REALTY TRUST)
C##	CONTOUR INTERVAL	PLNTR	PLANTER
CG	COVER GRADE	PC	POINT OF CURVATURE
CHNL	CHANNEL	POC	POINT ON CURVE
CL	CENTERLINE	PT	POINT OF TANGENCY
CLF	CHAIN LINK FENCE	PX	PX REALTY
CONT	CONTOURS	R	RANDOM
COR	CORNER	RD	ROAD
CUL	CULVERT	REM	REMEDIATION
CURBa	ASPHALT CURB	RPRP	RIPRAP
CURBg	GRANITE CURB	SG	SUBGRADE
D	DAGATA	SL	SLOPE
DTCH	DITCH	SWL	SWALE
E.	EDGE OF	TOB	TOP OF BANK
E.C.	EDGE OF CONCRETE	TOE	TOE OF SLOPE
E.P.	EDGE OF PAVEMENT	TOP	TOP OF SLOPE
EX	EXCAVATION	TRAN	TRANSITION ZONE
EZ	EXCLUSION ZONE	UC	UTILITY CORRIDOR
FAB	FABRIC	UCN	NORTH UTILITY CORRIDOR
FG	FINISH GRADE	UP	UTILITY POLE
G	GENERAL POINT	WG	WATERGATE
GUY	GUY WIRE	RRBD	RAILROAD BED

MERIDIAN LAND SERVICES POINTS TABLE

Point Number	Northing	Easting	Subgrade Elev. Feet	Cover Grade Elev. Feet	Cover Grade Depth Inches	Finish Grade Elev. Feet	Finish Grade Depth Inches	Total Depth Inches	Desc.
11086	553681.1	697253.1	63.73	67.33	43.13	67.90	6.84	49.97	R
11087	553691.5	697248.8	62.82	67.49	55.98	68.03	6.55	62.53	R
11088	553710.4	697275.4	62.48	64.23	21.05	64.58	4.15	25.20	R
11090	553687.2	697315.4	63.26	63.94	8.22	64.51	6.85	15.07	R
11091	553664.2	697304.1	63.76	64.64	10.49	65.80	14.02	24.50	R
11092	553683.0	697272.7	63.55	66.60	36.64	66.98	4.46	41.10	R
11093	553695.9	697294.4	63.00	63.66	7.97	64.00	4.07	12.04	R
11163	553717.6	697278.2	62.49	63.23	8.89	63.85	7.43	16.32	R
11164	553716.4	697264.8	65.78	66.61	9.96	67.18	6.82	16.78	R
11165	553770.0	697255.8	65.39	66.22	10.00	66.78	6.71	16.70	R
11166	553772.0	697268.7	62.33	63.29	11.46	63.88	7.09	18.55	R
11167	553835.5	697271.1	62.50	63.43	11.11	63.93	6.05	17.16	R
11168	553827.6	697248.8	64.58	65.43	10.25	65.80	4.39	14.64	R
11170	553842.9	697266.9	62.34	63.63	15.46	64.02	4.79	20.24	R
11171	553842.2	697237.2	62.79	63.95	13.98	64.43	5.74	19.72	R
11172	553862.3	697226.5	62.33	63.98	19.75	64.35	4.52	24.28	R
11173	553891.1	697226.9	64.14	64.86	8.64	65.22	4.36	13.00	R
11174	553912.3	697236.5	63.25	64.14	10.62	64.49	4.24	14.86	R
11175	553934.5	697255.3	62.79	63.87	12.96	64.23	4.34	17.30	R
11177	553867.1	697273.3	63.34	63.37	0.37	63.81	5.32	5.69	R
11178	553872.7	697266.2	63.19	63.22	0.43	63.63	4.86	5.29	R
11179	553855.8	697258.4	63.57	63.75	2.12	64.15	4.85	6.97	R
21696	553550.0	697350.0	65.98	67.00	12.22	67.57	6.88	19.09	GRID
21697	553550.0	697400.1	64.98	66.09	13.34	66.44	4.10	17.45	GRID
21699	553600.1	697350.1	67.22	68.37	13.78	68.77	4.85	18.62	GRID
21700	553600.0	697400.0	68.35	69.36	12.17	69.72	4.31	16.48	GRID
21701	553650.5	697300.2	65.76	66.94	14.17	67.51	6.92	21.10	GRID
21702	553650.0	697350.0	67.39	68.39	12.01	68.74	4.20	16.21	GRID
21703	553650.0	697400.0	68.26	69.31	12.58	69.71	4.81	17.39	GRID
21704	553649.9	697449.9	69.35	70.47	13.44	70.85	4.55	17.99	GRID
21705	553700.0	697400.0	66.03	67.06	12.31	67.53	5.74	18.05	GRID
21706	553699.9	697449.9	67.89	69.05	13.92	69.42	4.49	18.41	GRID
21707	553700.0	697499.9	67.84	68.99	13.73	69.45	5.60	19.33	GRID
21710	553578.6	697319.1	66.20	67.41	14.42	68.01	7.27	21.70	R
21711	553628.5	697290.7	66.17	67.20	12.36	67.87	8.02	20.38	R
21713	553655.9	697305.3	65.72	66.76	12.52	67.13	4.48	16.99	R
21714	553675.8	697349.9	66.23	67.28	12.59	67.92	7.62	20.21	R
21715	553718.5	697450.4	67.02	68.06	12.44	68.41	4.21	16.66	R
21716	553728.4	697488.4	67.23	68.28	12.55	68.63	4.16	16.72	R
21717	553711.9	697507.1	67.54	68.58	12.42	68.96	4.56	16.98	R
21718	553687.3	697502.9	67.64	68.83	14.26	69.22	4.70	18.96	R
21719	553636.6	697450.0	69.38	70.39	12.20	70.75	4.24	16.44	R
21720	553590.2	697417.4	67.75	68.76	12.08	69.15	4.62	16.70	R
21721	553541.6	697366.3	65.74	66.92	14.15	67.45	6.38	20.53	R
21816	554050.0	697200.0	68.92	69.97	12.68	70.35	4.50	17.18	GRID
21817	554000.1	697200.0	66.85	67.89	12.48	68.25	4.21	16.69	GRID
21818	553950.3	697200.1	64.59	65.74	13.72	66.31	6.86	20.58	GRID
21820	554000.8	697250.5	64.87	66.11	14.80	66.48	4.44	19.24	GRID
21821	553950.0	697249.9	64.29	65.54	14.94	65.90	4.34	19.28	GRID
21823	553799.9	697250.2	65.83	66.91	13.03	67.26	4.09	17.12	GRID
21824	553749.8	697250.3	66.64	67.64	12.00	68.16	6.22	18.22	GRID
21826	553702.4	697250.9	66.21	67.49	15.35	68.02	6.29	21.64	R
21827	553751.1	697236.1	66.92	67.95	12.37	68.30	4.24	16.61	R
21828	553800.5	697222.4	66.72	67.77	12.62	68.13	4.30	16.92	R
21829	553849.2	697208.1	66.37	67.42	12.65	67.78	4.27	16.92	R
21830	553899.3	697198.0	65.29	66.52	14.66	66.92	4.85	19.51	R
21831	553963.1	697184.9	65.57	66.58	12.10	67.02	5.27	17.36	R
21832	554014.9	697172.7	67.45	68.74	15.38	69.24	6.02	21.41	R
21833	554043.8	697161.4	69.26	70.27	12.12	70.62	4.30	16.42	R
21834	554052.7	697211.6	68.79	69.80	12.20	70.17	4.38	16.58	R
21835	554030.9	697234.2	67.64	68.74	13.21	69.17	5.14	18.35	R
21837	553962.7	697276.6	64.46	65.59	13.57	66.00	4.94	18.52	R
21838	553929.1	697234.1	64.45	65.45	12.07	65.97	6.22	18.29	R
21839	553903.9	697217.1	64.93	66.06	13.67	66.45	4.57	18.24	R
21840	553856.9	697219.7	65.83	66.88	12.64	67.27	4.75	17.39	R
21841	553832.5	697227.4	65.92	67.10	14.23	67.48	4.56	18.79	R
21844	553737.3	697256.6	66.74	67.89	13.87	68.24	4.19	18.06	R
21846	554074.0	697184.9	67.19	68.42	14.66	68.94	6.25	20.92	R
21847	554071.6	697153.9	68.68	69.73	12.54	71.06	16.02	28.56	R
21848	554084.1	697159.8	69.12	70.16	12.44	70.66	5.95	18.40	R
21849	554093.8	697147.9	69.29	70.46	13.97	70.85	4.75	18.72	R
21851	553535.2	697313.8	66.01	67.04	12.35	67.40	4.34	16.69	R
21856	553698.8	697232.4	66.82	67.92	13.22	68.28	4.31	17.53	R
21858	553791.5	697202.1	65.75	66.85	13.24	67.22	4.43	17.66	R
21859	553845.8	697189.0	65.03	66.29	15.02	67.43	13.69	28.72	R
21862	553887.1	697178.5	65.13	66.34	14.56	66.73	4.69	19.25	R
21863	553933.6	697168.8	64.74	65.99	15.08	66.50	6.04	21.12	R
21864	553984.9	697156.2	66.27	67.53	15.06	67.95	5.09	20.15	R
21865	554048.8	697141.6	68.78	69.84	12.72	70.30	5.50	18.22	R

RESTRICTED AREAS BY CLASSES OF LAND

CLASS OF LAND	DESCRIPTION
A	MAY CONTAIN CONTAMINATED GROUNDWATER
B	MAY CONTAIN CONTAMINATED GROUNDWATER, AND MAY CONTAIN CONTAMINATED SOILS. NO COVER WAS REQUIRED WITHIN CLASS B.
C	MAY CONTAIN CONTAMINATED GROUNDWATER, AND CONTAINS CONTAMINATED SOIL AND COVER.
D	MAY CONTAIN CONTAMINATED GROUNDWATER, AND CONTAINS CONTAMINATED SOIL AND COVER. CLASS D ALSO CONTAINS FOUR ANIMAL HIDE PILES.

GRAPHIC SCALE
50' 25' 0 50' 100' 150'

REV.	DATE	DESCRIPTION		DR	CK
I	9/30/08	FINAL SUBMISSION	TC	DBH	MDP
H	2/8/08	EPA COMMENTS OF 1/22/08	TC	DBH	MDP
G	9/28/07	EPA & DEP COMMENTS OF 8/29/07	JF	CAC	MDP
F	5/1/07	EPA & DEP COMMENTS OF 8/3/06	JF	CAC	MDP
E	9/21/05	EPA & DEP COMMENTS OF 7/12/04	KL	MDP	JGK
D	6/11/04	EPA & DEP COMMENTS OF 10/30/03	JF	MDP	JGK
C	10/16/03	DEP REVISIONS	JF	MDP	JGK
B	8/12/01	EPA REVISIONS	JF	MDP	JGK
A	8/8/00	ISSUE FOR REVIEW		MDP	JGK

FINAL

PROFESSIONAL LAND SURVEYOR

PROFESSIONAL ENGINEER

PREPARED FOR:
ROUX ASSOCIATES, INC.
Environmental Consulting & Management

PREPARED BY:
MERIDIAN Land Services, Inc.
ENGINEERS - LAND SURVEYORS - SCIENTISTS - LAND PLANNERS

DESIGNED BY:
Golder Associates
Manchester, New Hampshire
400 Commercial Street
Manchester, N.H. USA 03101
603-668-0880 • FAX 603-668-1199

PROJECT RECORD (TAX MAP LOT 10-1-17)

RECORD POINTS, TOPOGRAPHY & LIMITS OF ENGINEERED COVER

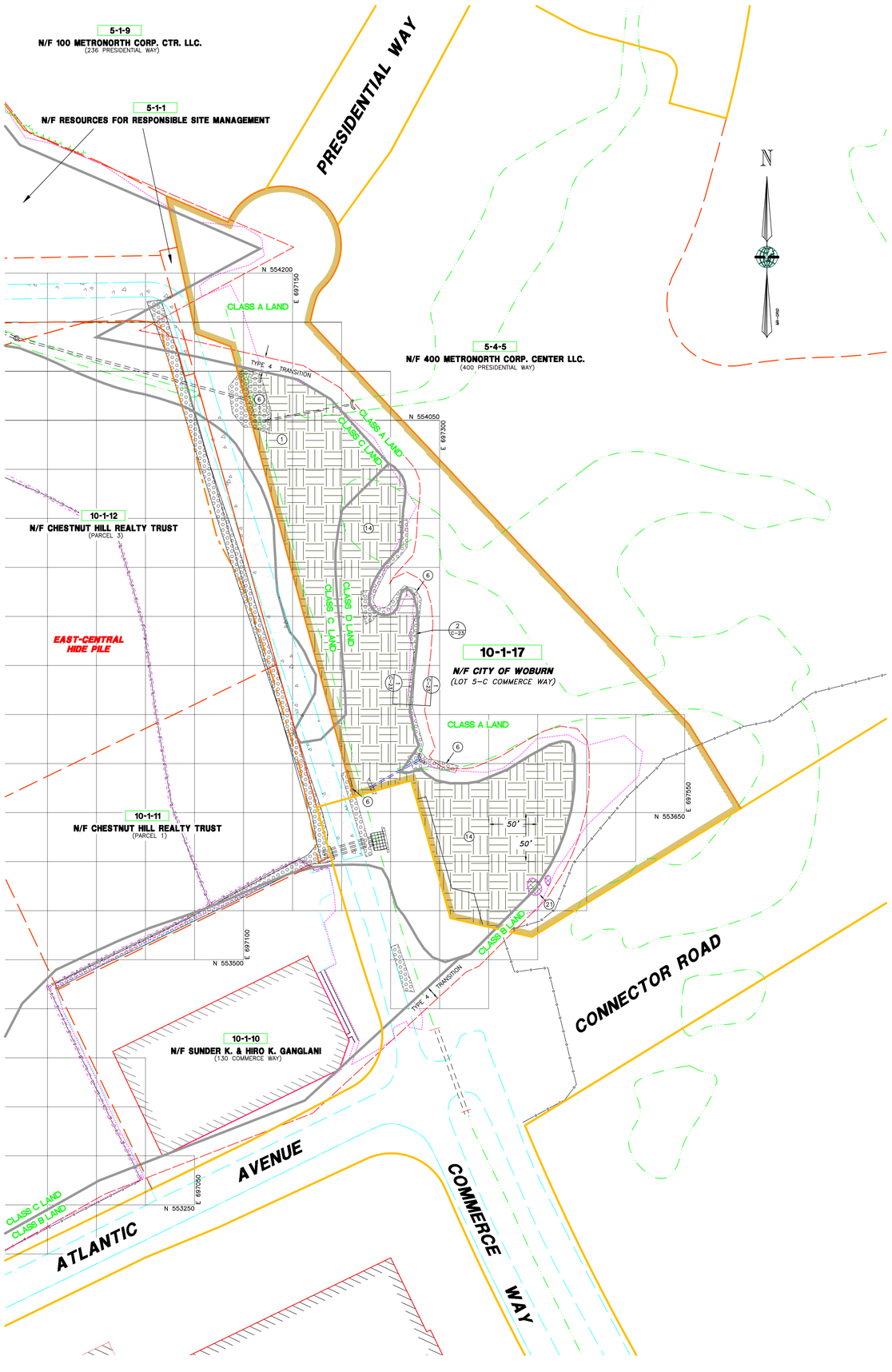
INDUSTRI-PLEX SITE REMEDIAL TRUST WOBURN, MASSACHUSETTS

SCALE: 1" = 50'

AUGUST 8, 2000

DESIGNED BY: MDP
DRAFTED BY: MDP
CHECKED BY: JGK
FILE: 29001121 3.dwg
DO NOT SCALE DRAWING

C-21
SHEET NO.
PROJECT: 2900.00
SHEET 3 OF 5



RESTRICTED AREAS BY CLASSES OF LAND

CLASS OF LAND	DESCRIPTION
A	MAY CONTAIN CONTAMINATED GROUNDWATER
B	MAY CONTAIN CONTAMINATED GROUNDWATER, AND MAY CONTAIN CONTAMINATED SOILS. NO COVER WAS REQUIRED WITHIN CLASS B.
C	MAY CONTAIN CONTAMINATED GROUNDWATER, AND CONTAINS CONTAMINATED SOIL AND COVER.
D	MAY CONTAIN CONTAMINATED GROUNDWATER, AND CONTAINS CONTAMINATED SOIL AND COVER. CLASS D ALSO CONTAINS FOUR ANIMAL HIDE PILES.

LEGEND

- BOUNDARY LINE
- RIGHT-OF-WAY
- ABUTTING PROPERTY LINES
- ASPHALT, CONCRETE, GRANITE CURB
- TRANSITION ZONE
- LAND CLASS LINE
- N 551,000 — GRID LINE
- EDGE OF EXISTING PAVEMENT
- LIMIT OF GEOTEXTILE
- A.T.&T. FIBER OPTIC CABLE
- TOE OF SLOPE
- TOP OF SLOPE
- LIMIT CHAIN LINK FENCE
- EDGE OF ASBUILT GRAVEL ROAD
- BACK EDGE OF PLANTER
- EDGE OF PROPOSED PAVEMENT
- EXISTING EASEMENT
- ASBUILT CULVERT
- LIMIT OF TREE LINE
- EXISTING CONCRETE STRUCTURE
- ASBUILT FINISH GRADE CONTOUR 5' INTERVAL
- ASBUILT FINISH GRADE CONTOUR 1' INTERVAL
- OHW — OVERHEAD WIRES
- UGG — UNDERGROUND GAS LINE
- LIMITS OF EXISTING EASEMENTS
- EDGE OF EXISTING BUILDINGS
- AREA OF LEDGE
- 3.3 — ASBUILT COVER TYPE
- TEST PIT
- MW — MONITOR WELL
- HYDRANT
- GATE VALVE
- CATCH BASIN (SQUARE)
- CATCH BASIN (ROUND)
- DRAIN MANHOLE
- SEWER MANHOLE
- UTILITY POLE
- GUY WIRE
- +14000 — ASBUILT POINT NO. & LOCATION
- GAS METER
- GAS SHUT OFF
- WATER SHUT OFF
- WATER CONTROL BOX
- SIGN
- BOLLARD
- TELEPHONE MANHOLE
- 99999 — POINT MARKER (SEE POINTS CHART)
- BORING LOCATION
- MICRO WELL LOCATION
- P — PIEZOMETER LOCATION
- SS — SOIL SAMPLE LOCATION
- STAFF GUAGE LOCATION
- T — TENSIOMETER LOCATION
- UID LOCATION
- MONITORING WELL LOCATION

X / C-XX — DETAIL/CROSS SECTION DESIGNATION / SHEET No. WHERE DETAIL/CROSS SECTION IS PRESENTED

COVER TYPES (EQUIVALENT)

AREA	ORIGINAL CONDITION	EQUIVALENT COVER TYPE
4	PAVED	EQUIVALENT COVER
5	BUILDING	EQUIVALENT COVER
8	BEDROCK DRAINAGE SWALE	BLAST/EXCAVATE CHANNEL EQUIVALENT COVER
21	BEDROCK OUTCROP	GRUB & CLEAN EQUIVALENT COVER
30	STACK	EQUIVALENT COVER

21 — GRUB & CLEAN EQUIVALENT COVER

COVER TYPES (ENGINEERED)

AREA	ORIGINAL CONDITION	COVER TYPE
1	VARIES	ABOVE GRADE PERMEABLE COVER
2	VARIES	AT GRADE PERMEABLE COVER
3	PLANTER WITH GRASS SHRUBS, SMALL TREES	AT GRADE PERMEABLE COVER
6	DRAINAGE SWALE	GRAVEL/COBBLE LINED
7	DRAINAGE SWALE	CONCRETE CULVERT (BENEATH EAST-CENTRAL HIDE PILE REMEDIATED SLOPE)
9	WETLANDS	ABOVE GRADE PERMEABLE COVER (WETLANDS REMEDIATION)
10	WETLANDS	DREDGE SEDIMENT, PLACE PERMEABLE COVER (WETLANDS REMEDIATION)
11	EAST HIDE PILE	IMPERMEABLE COVER (EAST HIDE PILE REMEDIATION)
12	VARIES	ABOVE GRADE PERMEABLE COVER (EXTENT OF SOUTH HIDE PILE REMEDIATION)
13	SOUTH HIDE PILE	ABOVE GRADE PERMEABLE COVER
14	EAST CENTRAL HIDE PILE	ABOVE GRADE PERMEABLE COVER
15	DEPRESSION VEGETATION VARIES	AT GRADE PERMEABLE COVER
16	RAILROAD LINES	RAILROAD COVER
17	VARIES	PLACE TRENCH DRAIN
18	VARIES	GRAVEL ACCESS ROAD
19	CHROMIUM LAGOONS	FILL, ABOVE GRADE PERMEABLE COVER
20	CONCRETE FOUNDATION	CLEAR, CLEAN & PATCH
22	PAVED	REGRADE, ABOVE GRADE ASPHALT
23	VARIES	PLACE CULVERT
24	CULVERT	EXTEND CULVERT
25	VARIES	SEE NOTE 4 (SHEET 11-3D) (ON REFERENCE PLAN 2)
26	VARIES	ABOVE GRADE ASPHALT COVER
27	VARIES	EXCAVATE, STORMWATER STORAGE, PLACE 16" FILL
28	DRAINAGE CHANNEL	DREDGE 16" SEDIMENT, PLACE GRAVEL/COBBLE LINING
29	EXISTING MDC SEWER SERVICE	RAISE MANHOLES
31	DRAINAGE SWALE	DREDGE 16", PLACE GRAVEL/COBBLE (GROUNDWATER RECHARGE BASIN)
32	VARIES	AT GRADE COVER (GRAVEL SURFACE)
33	VARIES	ABOVE GRADE COVER (GRAVEL SURFACE)
34	VARIES	GROUNDWATER TREATMENT PLANT
35	VEGETATION VARIES	AT GRADE ASPHALT COVER
36	WEST HIDE PILE	ABOVE GRADE PERMEABLE COVER
37	VARIES	GRAVEL/COBBLE LINED CREATED WETLAND STREAM
38	VARIES	DETENTION BASIN REMEDIATION IMPERMEABLE COVER
39	VARIES	LIMITS OF RIP RAP = 6" STONE (DRAINAGE SWALE / COBBLE LINED)
40	VARIES	GRAVEL ACCESS ROAD IMPERMEABLE COVER

1 & 14 — ABOVE GRADE ENGINEERED PERMEABLE COVER

6 — LIMITS OF RIP RAP = 6" STONE (DRAINAGE SWALE / COBBLE LINED) ENGINEERED COVER

GRAPHIC SCALE

50' 25' 0 50' 100' 150'

REV.	DATE	DESCRIPTION	DR	CK
I	9/30/08	FINAL SUBMISSION	TC DBH	MDP MDP
G	8/29/07	EPA & DEP COMMENTS OF 8/29/07	TC CAC	MDP MDP
F	5/1/07	EPA & DEP COMMENTS OF 8/3/06	JF CAC	MDP MDP
E	9/21/05	EPA & DEP COMMENTS OF 7/12/04	KL MDP	JCK JCK
D	6/11/04	EPA & DEP COMMENTS OF 10/30/03	JF MDP	JCK JCK
C	10/16/03	DEP REVISIONS	JF MDP	JCK JCK
B	8/11/03	EPA REVISIONS	JF MDP	JCK JCK
A	8/8/00	ISSUE FOR REVIEW	MDP	JCK

FINAL

PROFESSIONAL LAND SURVEYOR

PROFESSIONAL ENGINEER

PREPARED FOR: ROUX ASSOCIATES, INC. Environmental Consulting & Management

PREPARED BY: MERIDIAN Land Services, Inc. 1 MERIDIAN WAY, SUITE 1, WOBURN, MA 01801 TEL: 781.935.1122 FAX: 781.935.1133 WWW.MERIDIANLS.COM ENGINEERS - LAND SURVEYORS - SCIENTISTS - LAND PLANNERS

DESIGNED BY:

Golder Associates
400 Commercial Street
Manchester, New Hampshire
Manchester, N.H. USA 03101
603-668-0880 • FAX 603-668-1199

PROJECT RECORD (TAX MAP LOT 10-1-17)

COVER TYPES AND TRANSITIONS

INDUSTRI-PLEX SITE REMEDIAL TRUST
WOBURN, MASSACHUSETTS

AUGUST 8, 2000

SCALE: 1" = 50'

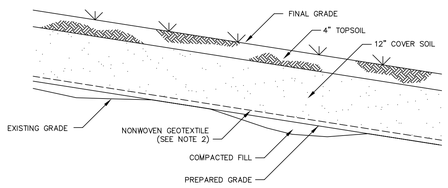
DESIGNED BY: MDP	C-22
DRAFTED BY: MDP	SHEET NO.
CHECKED BY: JCK	
FILE: 29001214.dwg	PROJECT: 2900.00
DO NOT SCALE DRAWING	SHEET 4 OF 5

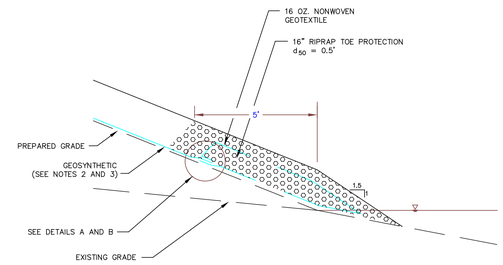
Sep 26, 2008 - 11:32am dbh Land Desktop 2004 - LDT4
H:\jms\02900-0-p48\29001.1\AS-BUILTS\0-PARCEL-2\

COVER TYPES

(1) & (14) ABOVE GRADE PERMEABLE COVER

(SEE NOTES: 1, 3 & 4)
NOT TO SCALE





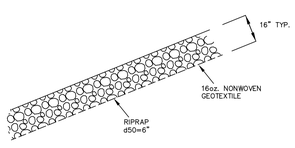
(2) / C-23 TYPICAL WETLAND TIE-IN DETAIL

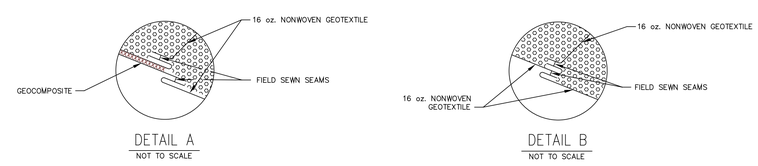
NOT TO SCALE

COVER TYPE

(6) ENGINEERED DRAINAGE SWALE/COBBLE LINED

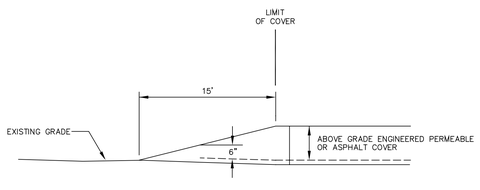
NOT TO SCALE





TYPICAL OVERLAP TIE-IN DETAILS

NOT TO SCALE



(1) / C-23 TYPICAL TYPE 4 TRANSITION

NOT TO SCALE

LEGEND

(X / C-23) — DETAIL/CROSS SECTION DESIGNATION
SHEET No. WHERE DETAIL/CROSS SECTION IS PRESENTED

NOTES

1.) SEE SPECIFICATIONS FOR DETAILS AND MATERIALS USED.

2.) FOR SLOPES FLATTER THAN 25% A 16oz. NONWOVEN GEOTEXTILE WAS INSTALLED ON HIDE PILES AND A 6oz. NONWOVEN GEOTEXTILE WAS INSTALLED ELSEWHERE.

3.) FOR SLOPES 25% OR STEEPER, A GEOSYNTHETIC DRAIN WAS USED AS FOLLOWS:

a. ON HIDE PILES, A GEOCOMPOSITE DRAIN WAS EXTENDED FROM THE TOE OF SLOPE A DISTANCE EQUAL TO A 10 FOOT CHANGE IN ELEVATION. A 16oz. NONWOVEN GEOTEXTILE WAS USED ELSEWHERE AND FIELD SEWN WITH THE GEOCOMPOSITE.

b. IN AREAS OTHER THAN HIDE PILES, A 16oz. NONWOVEN GEOTEXTILE WAS USED THROUGHOUT.

4.) FOR SLOPES STEEPER THAN 33%, A GEOGRID WAS PLACED DIRECTLY ABOVE THE GEOSYNTHETIC AND EXTENDED A DISTANCE OF 10 FEET BEYOND THE CREST OF THE SLOPE. FOR SLOPES 50% OR STEEPER A RIPRAP FACING WAS PLACED WITHOUT GEOGRID.

5.) VERTICAL EXAGGERATION OF GEOSYNTHETICS SCALE FOR VISUAL PURPOSES ONLY.

GRAPHIC SCALE
50' 25' 0 50' 100' 150'

REV.	DATE	DESCRIPTION	DR	CK
I	9/30/08	FINAL SUBMISSION	TC DBH	MDP
H	2/26/08	EPA COMMENTS OF 1/22/08	TC DBH	MDP
G	9/29/07	EPA & DEP COMMENTS OF 8/29/07	JF CAC	MDP
F	5/1/07	EPA & DEP COMMENTS OF 8/3/06	JF CAC	MDP
E	9/21/05	EPA & DEP COMMENTS OF 7/12/04	KL MDP	JCK
D	6/11/04	EPA & DEP COMMENTS OF 10/30/03	JF MDP	JCK
C	10/16/03	DEP REVISIONS	JF MDP	JCK
B	8/11/03	EPA REVISIONS	JF MDP	JCK
A	8/8/00	ISSUE FOR REVIEW	MDP	JCK

FINAL

PROFESSIONAL LAND SURVEYOR

PROFESSIONAL ENGINEER

PREPARED FOR: ROUX ASSOCIATES, INC. Environmental Consulting & Management

PREPARED BY: MERIDIAN Land Services, Inc. ENGINEERS - LAND SURVEYORS - SCIENTISTS - LAND PLANNERS

DESIGNED BY:

Golder Associates
Manchester, New Hampshire
400 Commercial Street
Manchester, N.H. USA 03101
603-668-0880 • FAX 603-668-1199

PROJECT RECORD (TAX MAP LOT 10-1-17)

DETAILS AND TRANSITIONS

INDUSTRI-PLEX SITE REMEDIAL TRUST
WOBURN, MASSACHUSETTS

AUGUST 8, 2000

SCALE: 1" = NONE

DESIGNED BY: MDP	C-23
DRAFTED BY: MDP	SHEET NO.
CHECKED BY: JCK	
FILE: 2900112f5.dwg	PROJECT: 2900.00
DO NOT SCALE DRAWING	SHEET 5 OF 5

Sep 26, 2008 - 12:59pm dbh Land Desktop 2004 - LDT4
H:\Ims\02900-D-MR\2900.11\AS-BUILTS\D-PARCEL-2\