CITRUS COUNTY
SOLID WASTE MANAGEMENT DIVISION

CENTRAL LANDFILL
PHASE 3 EXPANSION PROJECT
CONSTRUCTION DRAWINGS

CITRUS COUNTY, FLORIDA

APRIL 2010

BOARD OF COUNTY COMMISSIONERS

Dennis Damato, Commissioner, District 1
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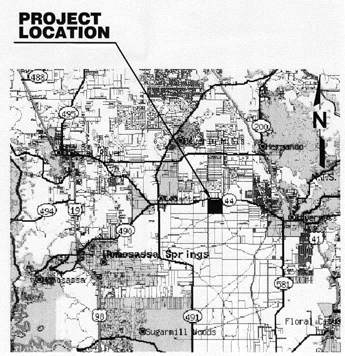


LOCATION MAP

DRAWING INDEX

DRAWING NO.		DRAWING TITLE
1	-	COVER SHEET
⚠1 2	-	EXISTING FACILITY SITE PLAN (TOPOGRAPHIC SURVEY DATE 04/08/09)
3	-	DEMOLITION PLAN
4	-	SITE GRADING PLAN
5	-	SITE GRADING CONTROL POINTS PLAN
6	-	SITE GRADING CONTROL POINTS TABLE
7	-	SECTIONS
8	-	LEACHATE COLLECTION SYSTEM DETAILS
9	-	LEACHATE COLLECTION SYSTEM DETAILS
10	-	LEACHATE COLLECTION SYSTEM DETAILS
11	-	LEACHATE COLLECTION SYSTEM AND STORMWATER DETAILS
12	-	LINER AND TRENCH SYSTEM DETAILS
13	-	STORMWATER PUMP STATION DEMOLITION DETAILS
14	-	STORMWATER IMPOUNDMENT DEMOLITION DETAILS
15	-	STORMWATER MISCELLANEAOUS DEMOLITION DETAILS
⚠1 16	-	STORMWATER AND MISCELLANEOUS DETAILS
17	-	STORMWATER BOX CULVERT DETAILS
18	-	LEACHATE ELECTRICAL SYSTEM EQUIPMENT LOCATION
19	-	LEACHATE ELECTRICAL SYSTEM RISER DIAGRAM AND NOTES
20	-	PRIMARY LINER AS-BUILT PANEL LAYOUT
21	-	SECONDARY LINER AS-BUILT PANEL LAYOUT

BERGLUND CONSTRUCTION SERVICES, LLC SURVEY

1 OF 3	-	EXISTING SITE AS-BUILT PLAN
2 OF 3	-	EXISTING SITE AS-BIULT CONTROL POINT PLAN
3 OF 3	-	EXISTING SITE AS-BUILT CONTROL POINT TABLE
4	-	SITE GRADING AND DRAINAGE AS-BUILT PLAN
5	-	SITE GRADING CONTROL POINTS AS-BUILT PLAN
5.1	-	OFF-SITE GRADING CONTROL POINTS AS-BUILT PLAN
6	-	SITE GRADING CONTROL POINTS AS-BUILT TABLE
6.1	-	OFF-SITE GRADING CONTROL POINTS AS-BUILT TABLE
8	-	LEACHATE COLLECTION SYSTEM AS-BUILT PLAN
8.1	-	LEACHATE COLLECTION SYSTEM AS-BUILT PLAN

ISSUED FOR BID SET – 4/11/10.

⚠1 REVISED PER ADDENDUM NO. 1 – 4/23/10.

CONFORMED SET – 6/22/10.

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
APR 07 2011
SOUTHWEST DISTRICT TAMPA

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
4041 PARK OAKS BLVD., SUITE 100
TAMPA, FLORIDA 33610
PH (813) 621-0080 FAX NO. (813) 623-6757
WWW.SCSENGINEERS.COM
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

SCS PROJECT NO. 09207049.06

RECORD DRAWING SET

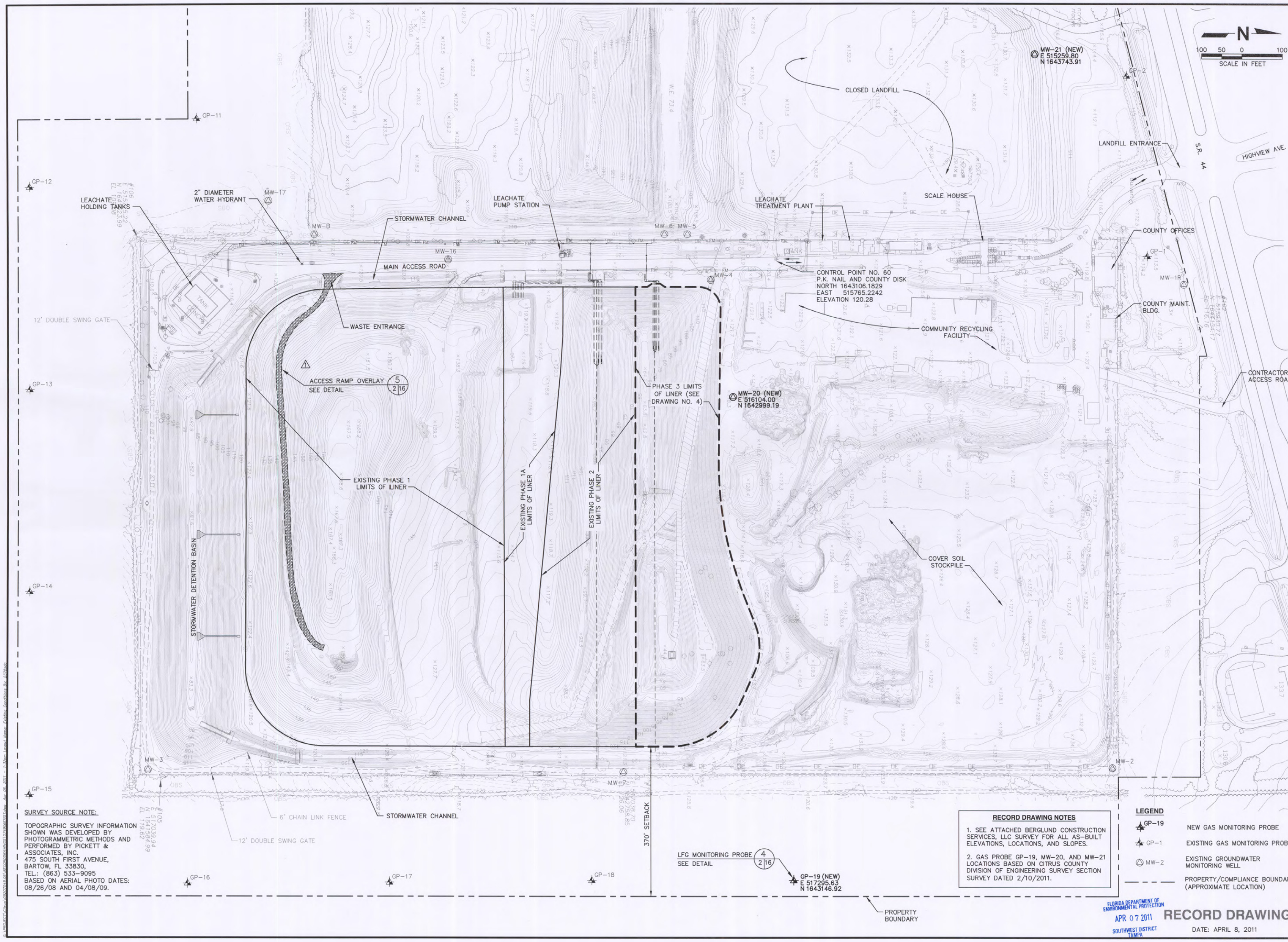
THIS RECORD DRAWING SET HAS BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE ENGINEER HAS NOT VERIFIED THE ACCURACY OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

SCS ENGINEERS Date: APRIL 2011

RECORD DRAWING SET

DATE: APRIL 8, 2011

DOMINIQUE H. BRAMLETT, P.E.
LICENSE NO. 61829



SURVEY SOURCE NOTE:

TOPOGRAPHIC SURVEY INFORMATION SHOWN WAS DEVELOPED BY PHOTOGRAMMETRIC METHODS AND PERFORMED BY PICKETT & ASSOCIATES, INC.
475 SOUTH FIRST AVENUE,
BARTOW, FL 33830,
TEL.: (863) 533-9095
BASED ON AERIAL PHOTO DATES: 08/26/08 AND 04/08/09.

RECORD DRAWING NOTES

1. SEE ATTACHED BERGLUND CONSTRUCTION SERVICES, LLC SURVEY FOR ALL AS-BUILT ELEVATIONS, LOCATIONS, AND SLOPES.
2. GAS PROBE GP-19, MW-20, AND MW-21 LOCATIONS BASED ON CITRUS COUNTY DIVISION OF ENGINEERING SURVEY SECTION SURVEY DATED 2/10/2011.

LEGEND

GP-19	NEW GAS MONITORING PROBE
GP-1	EXISTING GAS MONITORING PROBE
MW-2	EXISTING GROUNDWATER MONITORING WELL
— — —	PROPERTY/COMPLIANCE BOUNDARY (APPROXIMATE LOCATION)

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
APR 07 2011
SOUTHWEST DISTRICT TAMPA

RECORD DRAWING

DATE: APRIL 8, 2011

DOMINIQUE H. BRAMLETT, P.E.
LICENSE NO. 61829

REV	DATE	DESCRIPTION	BY
3	4/8/11	REVISED FOR THE RECORD	DHB
2	6/22/10	CONFORMED	DHB
1	4/23/10	REVISED PER ADDENDUM NO. 1	DHB
0	4/11/10	ISSUED FOR BID	DHB

DRAWING TITLE
EXISTING FACILITY SITE PLAN (TOPOGRAPHIC SURVEY DATE 04/08/09)

PROJECT TITLE
CENTRAL LANDFILL PHASE 3 EXPANSION PROJECT CONSTRUCTION DRAWINGS

CLIENT
CITRUS COUNTY SOLID WASTE MANAGEMENT DIVISION CITRUS COUNTY, FLORIDA

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
4041 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
813 621-0080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

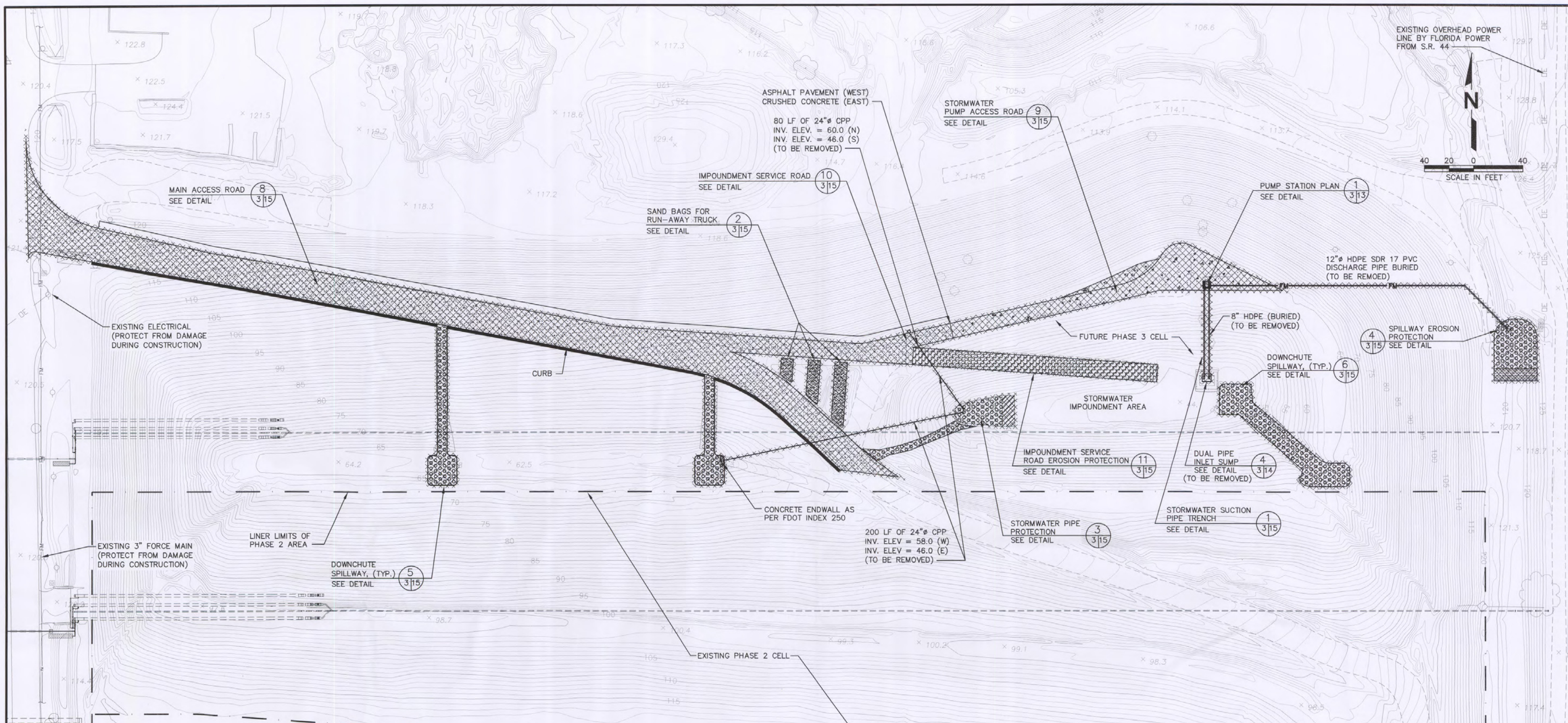
PROJ. NO.	DWN. BY:	Q/A RVW BY:
09207049.06	SDA/CTN	CEH
DSN. BY: DHB	CHK. BY: CEH	APP. BY: DHB

CADD FILE: 074906EXIST

DATE: APRIL 2010

SCALE: AS SHOWN

DRAWING NO. **2** of 21



EXISTING PHASE 1A AREA (LIMITS OF LINER)

SURVEY SOURCE NOTE:

TOPOGRAPHIC SURVEY INFORMATION SHOWN WAS DEVELOPED BY PHOTOGRAMMETRIC METHODS AND PERFORMED BY PICKETT & ASSOCIATES, INC. 475 SOUTH FIRST AVENUE, BARTOW, FL 33830, TEL.: (863) 533-9095 BASED ON AERIAL PHOTO DATES: 04/08/09.

DEMOLITION NOTES:

1. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COLLECT ALL REQUIRED INFORMATION NECESSARY FOR DEMOLITION OF THE PROPOSED STRUCTURES AND PROTECTION OF THE EXISTING STRUCTURES AND UTILITIES. STRUCTURES, UTILITIES, ROADS, BUILDING MATERIALS, DIMENSIONS, ETC. SHOWN ARE APPROXIMATE REPRESENTATIONS OF EXISTING SITE CONDITIONS. THE INFORMATION COLLECTED BY THE CONTRACTOR (DURING A SITE AND STRUCTURE INVESTIGATION, REVIEW OF APPLICABLE DRAWINGS, ETC.) SHALL BE USED BY THE CONTRACTOR TO VERIFY SITE CONDITIONS AND TO CREATE A DEMOLITION WORK-PLAN. THE WORK-PLAN SHALL INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING INFORMATION:
   - A. PHYSICAL COMPONENTS AND EXTENTS OF STRUCTURES ABOVE/BELOW GROUND.
   - B. TECHNIQUE AND METHOD OF DEMOLITION TO BE ADOPTED.
   - C. PERSONNEL REQUIRED FOR DEMOLITION.
   - D. EQUIPMENT REQUIRED FOR DEMOLITION (SIZE, WEIGHT, AND METHOD OF MOVEMENT AROUND SITE).
   - E. PROPOSED ACCESS AND EGRESS TO THE DEMOLITION SITE, STRUCTURES, AND ANY ADJOINING PROPERTIES AFFECTED BY THE WORK (INCLUDES EMERGENCY ACCESS AND EGRESS).
   - F. NATURE, EXTENT AND LOCATION OF PUBLIC PROTECTION DURING DEMOLITION (EG. FENCING, BARRICADES, SCAFFOLDING, NETS, SIGNAGE, ETC.).
   - G. UTILITY LOCATION/PROTECTION BEFORE/DURING DEMOLITION TO INCLUDE ARRANGEMENTS FOR ISOLATION/DISCONNECTION OF SERVICES AS REQUIRED. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS AND SERVE AS NOTICE TO THE CONTRACTOR THAT UNDERGROUND UTILITIES EXIST. THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THERE MAY BE SOME AREAS OF POSSIBLE UTILITY CONFLICTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ANY AND ALL EXISTING UTILITIES ON THIS PROJECT THAT ARE TO BE REUSED/UNAFFECTED. THE CONTRACTOR SHALL REPAIR ALL DAMAGE TO EXISTING UTILITIES AT NO ADDITIONAL COST THAT ARE NOT SCHEDULED FOR DEMOLITION/REMOVAL.
   - H. LOCATION/PROTECTION OF OTHER FEATURES AFFECTING CONTRACTOR PRIOR TO DEMOLITION. THE CONTRACTOR SHALL NOTIFY THE COUNTY IMMEDIATELY WHEN CONFLICTS BETWEEN DRAWINGS AND ACTUAL CONDITIONS ARE DISCOVERED.
   - I. TYPE OF PERSONAL PROTECTIVE EQUIPMENT (PPE) REQUIRED FOR PERSONNEL INVOLVED IN THE DEMOLITION PROJECT.
   - J. PROPOSED METHOD OF HANDLING DEMOLITION DEBRIS.
   - K. DEMOLITION DEBRIS DISPOSAL SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
2. MAINTENANCE AND PROTECTION OF TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE TO THE STANDARDS OF APPLICATION AS FOUND IN THE "MANUAL OF TRAFFIC CONTROL AND PRACTICES" STATE OF FLORIDA DOT AND THE DIRECTIVES OF THE COUNTY AND THE SPECIFICATIONS.
3. EXISTING STORMWATER PUMPS SHALL REMAIN PROPERTY OF THE COUNTY. CONTRACTOR SHALL COORDINATE WITH COUNTY AS TO LOCATION TO STORE PUMPS.

LEGEND

- ASPHALT PAVEMENT TO BE REMOVED
- CRUSHED CONCRETE PUMP ACCESS ROAD TO BE REMOVED
- IMPOUNDMENT SERVICE ROAD TO BE REMOVED
- FABRIFORM O.E. UNIMAT REVETMENT TO BE REMOVED
- TURF REINFORCING MAT & SOD TO BE REMOVED
- SAND BAG TO BE REMOVED

DESIGNATION LETTER INDICATES SECTION, NUMBER INDICATES DETAIL OR ELEVATION
INDICATES DIRECTION OF CUTTING PLANE
A
5 8
SHEET NUMBER WHERE SECTION IS TAKEN
SHEET NUMBER WHERE SECTION IS SHOWN

SECTION AND DETAIL DESIGNATION

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
APR 07 2011
SOUTHWEST DISTRICT TAMPA

RECORD DRAWING
DATE: APRIL 8, 2011

REV	DATE	DESCRIPTION	BY
	4/8/11	REVISED FOR THE RECORD	DHB
	6/22/10	CONFORMED	DHB
	4/11/10	ISSUED FOR BID	DHB

DOMINGOS H. BRAMLETT, P.E. LICENSE NO. 61829

DRAWING TITLE: **DEMOLITION PLAN**

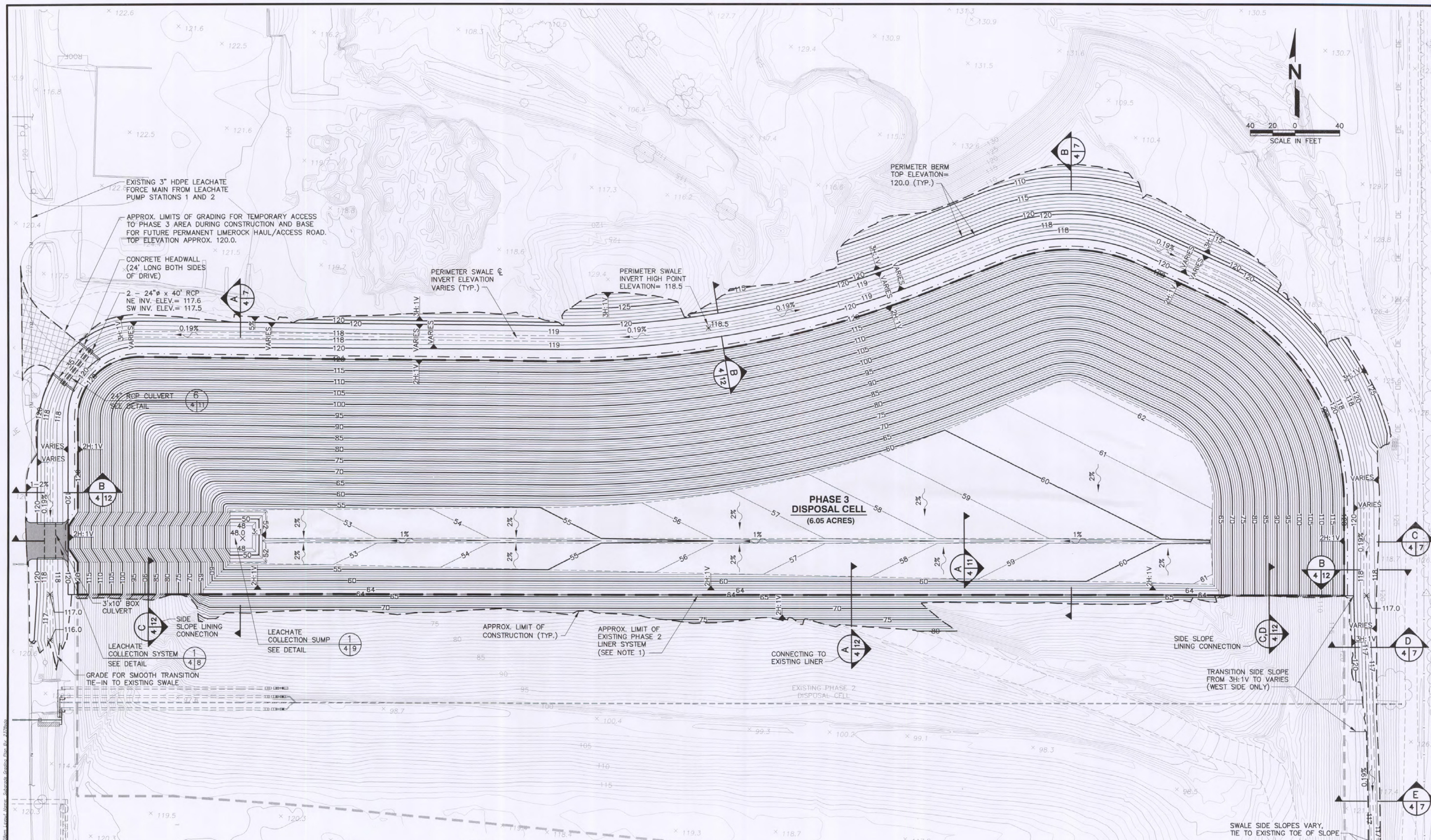
PROJECT TITLE: **CENTRAL LANDFILL PHASE 3 EXPANSION PROJECT CONSTRUCTION DRAWINGS**

CLIENT: **CITRUS COUNTY SOLID WASTE MANAGEMENT DIVISION CITRUS COUNTY, FLORIDA**

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS
4041 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09207049.06 | DWN. BY: SDA/CTN | Q/A RVW BY: CEH
DSN. BY: DHB | CHK. BY: CEH | APP. BY: DHB

CADD FILE: 074906DEMOPLN
DATE: APRIL 2010
SCALE: AS SHOWN
DRAWING NO. 3 of 21



LEGEND

- —55— TOP OF SUBGRADE LAYER CONTOUR (5 FOOT INTERVAL)
- TOP OF SUBGRADE LAYER CONTOUR (1 FOOT INTERVAL)
- ×116.0 SPOT ELEVATION
- —90— EXISTING GRADE CONTOUR (5 FOOT INTERVAL) 04/08/09 SURVEY
- EXISTING GRADE CONTOUR (1 FOOT INTERVAL) 04/08/09 SURVEY
- SURFACE WATER FLOW/SLOPE DIRECTION
- APPROXIMATE LIMIT OF EXISTING PHASE 2 DISPOSAL CELL (SEE NOTE 1)
- LIMIT OF PHASE 3 DISPOSAL CELL (AT TOP OF SLOPE)
- PHASE 3 LINER ANCHOR TRENCH TURN-DOWN POINT (OUTSIDE PERIMETER)

NOTES:

1. EXISTING PHASE 2 LINER LIMITS SHOWN ARE APPROXIMATE. CONTRACTOR TO CAREFULLY EXCAVATE EXISTING SOIL AND/OR MUNICIPAL WASTE TO EXPOSE EXISTING PHASE 2 LINER FOR PHASE 3 LINER TIE-IN.
2. TOPOGRAPHIC SURVEY PERFORMED BY PICKETT & ASSOCIATES, INC., 475 SOUTH FIRST AVENUE, BARTOW, FLORIDA, 33830, TEL: (863) 533-9095. SURVEY INFORMATION SHOWN WAS DEVELOPED BY PHOTOGRAMMETRIC METHODS BASED ON AN AERIAL PHOTO DATE OF APRIL 8, 2009.
3. CONTRACTOR SHALL PROVIDE TEMPORARY FACILITIES COMPATIBLE WITH PROPOSED IMPROVEMENTS AND COMPATIBLE WITH COUNTY OPERATIONS, FOR DIVERTING STORM WATER RUNOFF FROM ACTIVE LANDFILL, SO THAT CONSTRUCTION CAN BE ACCOMPLISHED IN ACCORDANCE WITH SPECIFICATIONS. SEE SPECIFICATION SECTION 312000 FOR EXCAVATION PLAN REQUIREMENTS.
4. ALL FINISHED SLOPES GREATER THAN 10% OUTSIDE THE ANCHOR TRENCH LIMIT SHALL BE SODDED. SOD ON SLOPES GREATER THAN 3:1 SHALL BE PINNED. CONTRACTOR SHALL STABILIZE ALL TEMPORARY SLOPES TO MINIMIZE EROSION.

RECORD DRAWING NOTE

SEE ATTACHED BERGLUND CONSTRUCTION SERVICES, LLC SURVEY FOR ALL AS-BUILT ELEVATIONS, LOCATIONS, AND SLOPES.

RECORD DRAWING

DATE: APRIL 8, 2011

REV	DATE	DESCRIPTION	BY
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0	4/11/10	ISSUED FOR BID	DHB

DOMINIQUE H. BRAMLETT, P.E.
LICENSE NO. 61829

DRAWING TITLE
SITE GRADING PLAN

PROJECT TITLE
CENTRAL LANDFILL
PHASE 3 EXPANSION PROJECT
CONSTRUCTION DRAWINGS

CLIENT
CITRUS COUNTY
SOLID WASTE MANAGEMENT DIVISION
CITRUS COUNTY, FLORIDA

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
APR 07 2011
SOUTHWEST DISTRICT TAMPA

SCS ENGINEERS
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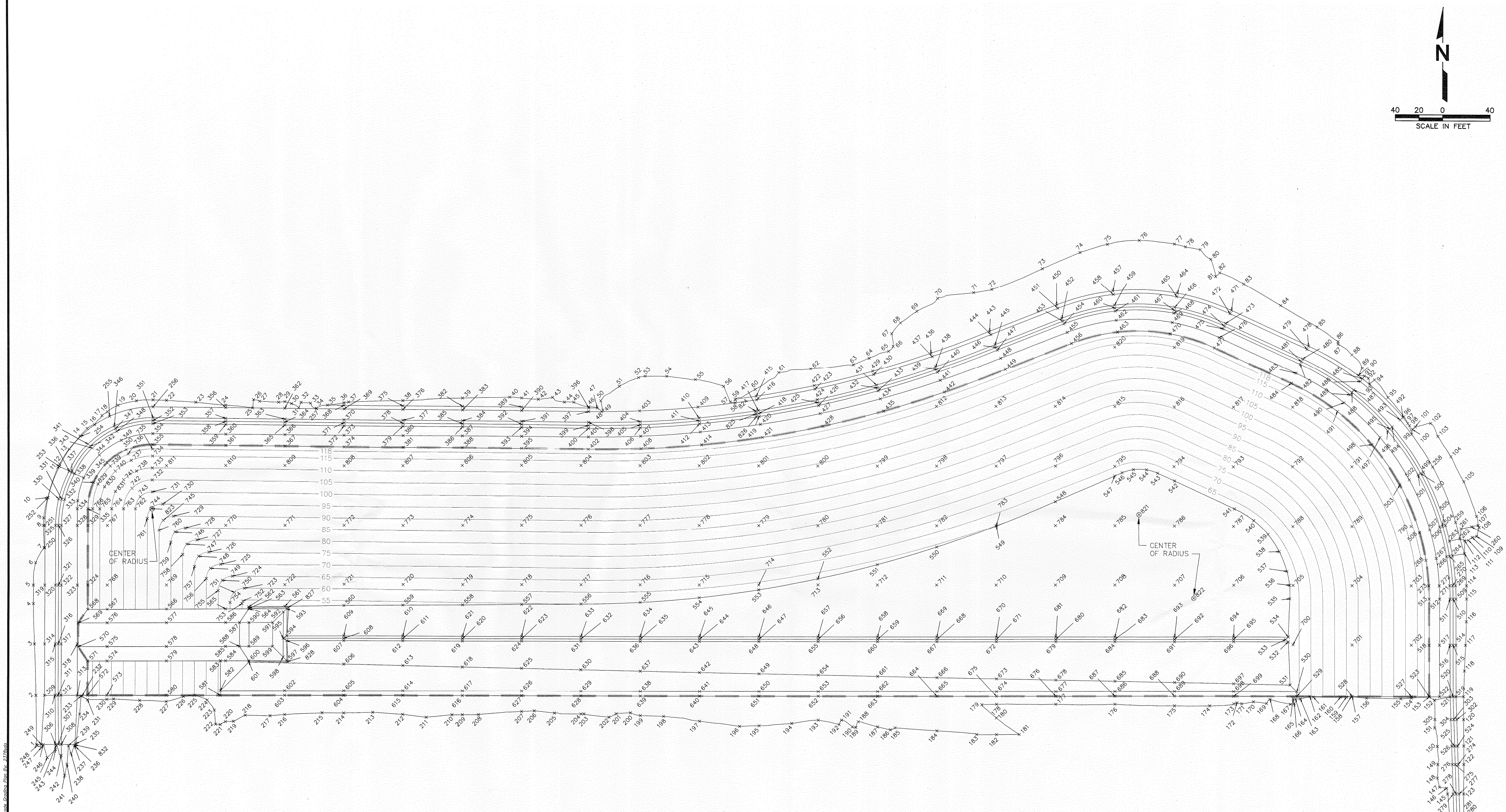
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09207049.06 | DWN. BY: SDA | Q/A RVW BY: CEH
DSN. BY: DHB | CHK. BY: CEH | APP. BY: DHB

CADD FILE: 074906GRADING
DATE: APRIL 2010
SCALE: AS SHOWN
DRAWING NO. 4 of 21



LEGEND

+127	HORIZONTAL AND VERTICAL CONTROL POINT AND IDENTIFICATION NUMBER (SEE DRAWING NO. 6 FOR COORDINATE LOCATIONS AND ELEVATIONS)
	VERTICAL GRADE BREAK/TRANSITION LINE
110	TOP OF SUBGRADE LAYER CONTOUR
	LIMIT OF PHASE 3 DISPOSAL CELL (SEE NOTE 2)

RECORD DRAWING NOTE

SEE ATTACHED BERGLUND CONSTRUCTION SERVICES, LLC SURVEY FOR ALL AS-BUILT ELEVATIONS, LOCATIONS, AND SLOPES.

NOTES:

1. PERIMETER CONTROL POINTS NUMBERS 1 THROUGH 248 ARE APPROXIMATE LOCATIONS WHERE THE NEW CONSTRUCTION GRADING TIES TO EXISTING GRADE. CONTRACTOR TO MAINTAIN SET DESIGN SLOPES AS SHOWN ON PLANS, THEREFORE ACTUAL HORIZONTAL AND VERTICAL TIE-IN LOCATIONS OF NEW GRADING TO EXISTING GRADE MAY VARY BASED ON EXISTING GRADE CONDITIONS AT THE TIME OF CONSTRUCTION.
2. CONTROL POINTS SHOWN ON OR INSIDE THE LIMIT OF PHASE 3 DISPOSAL CELL BOUNDARY REPRESENT THE TOP OF SUBGRADE LAYER ON WHICH THE LINER SYSTEM IS PLACED (SEE DETAIL B, DRAWING NO. 12).
3. CONTROL POINTS SHOWN ALONG THE PERIMETER SWALE ON THE WEST SIDE OF THE SITE DO NOT REFLECT FINAL FACILITY CONSTRUCTION GRADES SPECIFICALLY IN AREAS OF THE TEMPORARY CONSTRUCTION ACCESS ROAD AND THE ASPHALT DRIVEWAY/BOX CULVERTS.

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
APR 07 2011
SOUTHWEST DISTRICT TAMPA

RECORD DRAWING
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	4/8/11	REVISED FOR THE RECORD	DHB
	6/22/10	CONFORMED	DHB
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DOMINIQUE H. BRAMLETT, P.E.
LICENSE NO. 61829

DRAWING TITLE
SITE GRADING CONTROL POINTS PLAN

PROJECT TITLE
CENTRAL LANDFILL PHASE 3 EXPANSION PROJECT CONSTRUCTION DRAWINGS

CLIENT
CITRUS COUNTY SOLID WASTE MANAGEMENT DIVISION CITRUS COUNTY, FLORIDA

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
4041 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
813 621-0080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 092070 49.06 | DWN. BY: SDA/CTN | Q/A RVW BY: CEH
DSN. BY: DHB | CHK. BY: CEH | APP. BY: DHB

CADD FILE: 074906GRAD-CNTRL
DATE: APRIL 2010
SCALE: AS SHOWN
DRAWING NO. 5 of 21

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POINT NO.	NORTHING	EASTING	ELEV. (FT.)
1	1642715.33	515790.65	120.20
2	1642756.67	515790.12	120.04
3	1642800.00	515788.70	120.15
4	1642834.60	515787.72	120.20
5	1642850.00	515787.68	120.16
6	1642868.57	515789.58	120.18
7	1642881.15	515796.72	120.26
8	1642900.00	515796.15	120.39
9	1642906.39	515796.27	120.42
10	1642923.30	515799.82	120.06
11	1642948.39	515808.27	120.28
12	1642951.42	515809.78	119.73
13	1642964.12	515817.92	119.91
14	1642975.31	515827.13	119.82
15	1642981.64	515833.07	119.57
16	1642984.83	515839.48	120.01
17	1642992.47	515845.58	121.13
18	1642995.65	515850.10	121.41
19	1643001.03	515859.10	121.98
20	1643004.72	515874.69	122.00
21	1643005.47	515888.63	121.94
22	1643005.03	515900.00	121.84
23	1643003.35	515924.73	121.38
24	1643000.93	515950.00	120.67
25	1642998.65	515972.75	120.00
26	1643005.51	515973.51	120.34
27	1643004.13	515978.74	120.28
28	1643003.38	515994.73	120.25
29	1643003.81	516000.00	120.27
30	1643002.19	516005.72	120.20
31	1642998.72	516011.68	120.03
32	1643003.23	516013.73	120.25
33	1643002.53	516021.72	120.22
34	1642998.21	516026.67	120.00
35	1643000.91	516035.94	120.00
36	1643002.84	516050.00	119.30
37	1643003.48	516053.97	119.07
38	1643004.57	516099.99	118.53
39	1643006.50	516150.00	117.69
40	1643006.77	516190.03	117.65
41	1643006.47	516200.00	117.50
42	1643005.49	516214.01	117.77
43	1643007.11	516226.03	117.18
44	1643003.17	516235.98	118.46
45	1643003.06	516243.98	118.46
46	1642999.27	516256.55	119.68
47	1642998.24	516263.78	120.00
48	1642995.24	516267.47	120.00
49	1642996.52	516268.50	120.43
50	1643004.23	516266.64	123.03
51	1643016.31	516282.11	126.98
52	1643023.60	516298.61	129.25
53	1643024.86	516304.19	129.59
54	1643024.82	516322.60	129.24
55	1643022.09	516346.70	127.68
56	1643016.52	516370.41	124.98
57	1643003.51	516376.04	120.44
58	1643002.71	516380.18	120.00
59	1643005.72	516380.03	120.00
60	1643013.98	516396.91	118.07
61	1643028.07	516416.81	114.53
62	1643031.28	516443.98	115.24
63	1643034.77	516479.86	116.85
64	1643040.31	516493.17	116.21
65	1643046.08	516509.50	115.87
66	1643050.23	516513.39	114.92
67	1643060.79	516512.20	111.44
68	1643069.78	516519.51	109.31
69	1643079.47	516533.37	107.69
70	1643090.35	516550.90	106.23
71	1643095.18	516581.21	108.74
72	1643097.87	516596.38	109.39
73	1643115.34	516638.96	109.16
74	1643128.94	516670.62	107.92
75	1643135.83	516693.87	106.95
76	1643139.16	516720.29	106.34
77	1643136.30	516750.00	106.63
78	1643134.04	516759.31	106.90
79	1643131.70	516771.84	106.82
80	1643123.79	516780.90	108.62
81	1643109.51	516784.95	112.78
82	1643112.63	516788.35	111.44
83	1643103.32	516808.50	111.85
84	1643085.19	516839.80	113.00
85	1643067.21	516870.52	114.20
86	1643055.01	516888.26	115.13
87	1643052.99	516888.33	115.71
88	1643043.92	516900.00	116.26
89	1643032.76	516908.74	117.65
90	1643026.64	516905.47	120.06
91	1643025.96	516910.63	120.92
92	1643024.32	516913.87	121.16
93	1643019.35	516915.02	119.89
94	1643022.75	516919.16	118.14
95	1643008.05	516930.55	119.24
96	1642992.12	516943.87	119.65
97	1642986.45	516947.24	120.00
98	1642984.71	516948.64	120.00
99	1642977.38	516950.52	120.00
100	1642981.64	516951.10	121.00

POINT NO.	NORTHING	EASTING	ELEV. (FT.)
101	1642983.49	516953.50	122.00
102	1642986.53	516966.55	126.11
103	1642975.75	516972.66	125.72
104	1642958.38	516983.65	125.86
105	1642937.38	516994.58	126.06
106	1642908.47	517005.18	126.13
107	1642900.75	517006.47	125.87
108	1642899.05	517007.32	126.00
109	1642891.38	517005.29	126.00
110	1642890.42	517001.52	124.00
111	1642888.00	516998.51	122.00
112	1642887.81	516995.10	120.00
113	1642876.94	516994.97	118.79
114	1642850.00	516996.62	118.98
115	1642838.95	516996.68	119.01
116	1642819.59	516996.47	118.95
117	1642800.00	516995.81	118.73
118	1642778.52	516994.82	118.43
119	1642756.64	516994.03	118.28
120	1642737.50	516994.01	118.18
121	1642715.53	516994.05	117.81
122	1642700.00	516994.08	117.54
123	1642675.00	516993.92	117.59
124	1642650.00	516993.91	117.40
125	1642625.00	516995.10	117.18
126	1642600.00	516996.10	117.35
127	1642589.00	516996.48	117.43
128	1642575.00	516996.66	117.46
129	1642550.00	516996.87	117.46
130	1642525.00	516996.94	117.39
131	1642504.56	516997.01	117.35
132	1642488.96	516995.36	116.63
133	1642492.91	516990.24	116.64
134	1642508.96	516986.61	116.87
135	1642525.00	516986.11	117.05
136	1642550.00	516986.12	117.20
137	1642575.00	516986.01	117.18
138	1642600.00	516985.56	117.15
139	1642625.00	516985.12	117.18
140	1642635.98	516984.89	117.25
141	1642636.93	516983.47	117.40
142	1642642.95	516984.11	117.45
143	1642650.00	516983.64	117.55
144	1642657.90	516982.01	118.03
145	1642675.00	516980.33	118.45
146	1642679.84	516979.56	118.67
147	1642680.66	516973.46	120.70
148	1642688.31	516971.74	121.21
149	1642700.00	516972.12	120.99
150	1642714.89	516971.80	120.97
151	1642730.58	516969.70	121.54
152	1642753.79	516969.52	121.41
153	1642756.41	516965.10	119.90
154	1642755.45	516950.00	113.04
155	1642754.81	516941.17	108.94
156	1642755.26	516912.17	94.21
157	1642756.51	516900.00	87.50
158	1642756.60	516899.17	87.04
159	1642756.21	516895.17	84.83
160	1642756.06	516890.17	82.26
161	1642756.09	516867.17	70.77
162	1642756.53	516864.17	69.58
163	1642754.57	516856.10	65.52
164	1642754.40	516852.01	65.00
165	1642754.58	516850.07	65.02
166	1642750.58	516851.01	67.00
167	1642749.90	516847.67	67.36
168	1642754.09	516830.67	65.26
169	1642750.49	516827.67	67.07
170	1642751.96	516816.67	66.33
171	1642750.26	516806.67	67.18
172	1642751.13	516802.67	66.75
173	1642750.21	516800.00	67.21
174	1642748.43	516779.67	68.09
175	1642748.51	516750.00	68.05
176	1642749.81	516700.00	67.40
177	1642749.86	516650.00	67.38
178	1642749.94	516600.00	67.34
179	1642749.56	516587.67	67.53
180	1642738.49	516600.00	73.06
181	1642724.62	516619.13	80.00
182	1642724.51	516600.00	80.06
183	1642727.62	516583.43	80.00
184	1642727.67	516550.00	78.47
185	1642730.15	516514.67	77.23
186	1642728.46	516510.67	78.08
187	1642730.94	516500.00	76.84
188	1642735.27	516483.67	74.67
189	1642730.53	516481.67	77.04
190	1642731.00	516478.67	76.81
191	1642736.56	516469.67	74.03
192	1642732.84	516467.67	75.89
193	1642736.58	516450.00	74.02
194	1642733.76	516426.67	75.43
195	1642731.88	516400.00	76.37
196	1642731.34	516383.67	76.64
197	1642735.59	516350.00	74.51
198	1642739.61	516319.67	72.50
199	1642740.22	516300.00	72.20
200	1642742.48	516291.67	71.07

POINT NO.	NORTHING	EASTING	ELEV. (FT.)
201	1642741.67	516279.67	71.47
202	1642738.76	516273.67	72.93
203	1642741.45	516252.67	71.58
204	1642741.41	516250.00	71.61
205	1642742.14	516227.67	71.24
206	1642743.94	516210.67	70.34
207	1642743.39	516200.00	70.62
208	1642740.71	516183.67	71.95
209	1642740.56	516150.00	72.03
210	1642740.52	516141.67	72.05
211	1642738.37	516119.67	73.12
212	1642740.73	516100.00	71.95
213	1642742.37	516074.67	71.12
214	1642741.87	516050.00	71.37
215	1642742.05	516031.67	71.28
216	1642740.48	516000.00	72.07
217	1642739.47	515987.67	72.57
218	1642739.91	515966.67	72.36
219	1642734.79	515956.67	74.91
220	1642734.54	515950.00	75.04
221	1642732.03	515945.67	76.29
222	1642732.41	515941.67	78.10
223	1642744.17	515940.67	72.72
224	1642752.63	515934.67	71.49
225	1642756.61	515923.67	75.00
226	1642755.59	515914.67	78.99
227	1642751.40	515900.00	84.23
228	1642752.32	515877.67	95.85
229	1642753.46	515855.67	107.42
230	1642753.28	515850.00	110.17
231	1642752.91	515833.67	118.15
232	1642756.01	515829.17	119.70
233	1642755.97	515828.26	119.68
234	1642740.89	515827.06	119.65
235	1642716.00	515824.08	119.72
236	1642713.42	515824.00	119.70
237	1642714.46	515822.71	119.71
238	1642707.90	515819.91	119.55
239	1642714.40	515817.70	118.08
240	1642698.93	515816.51	116.18
241	1642689.39	515814.59	114.73
242	1642706.24	515811.59	115.07
243	1642714.67	515807.25	115.92
244	1642711.04	515806.79	116.44
245	1642704.48	515799.86	119.43
246	1642715.13	515796.25	119.48
247	1642712.79	515794.77	119.74
248	1642714.50	515791.25	120.08
249	1642715.36	515794.75	120.00
250	1642881.15	515797.31	120.00
251	1642900.00	515797.31	120.00
252	1642923.28	515800.00	120.00
253	1642949.27	515809.65	120.00
254	1642974.94	515827.50	119.99
255	1642991.85	515851.96	120.02
256	1642999.65	515888.60	120.00
257	1642998.02	515926.67	120.00
258	1642949.92	515968.24	120.00
259	1642903.34	515987.52	120.00
260	1642899.64	517000.98	124.00
261	1642897.85	516992.15	121.00
262	1642889.38	516991.11	120.00
263	1642887.39	516982.34	117.24
264	1642875.19	516984.71	117.22
265	1642874.78	516982.25	117.22
266	1642874.36	516979.78	117.22
267	1642872.90	516971.15	120.00
268	1642871.42	516962.43	120.00
269	1642850.00	516987.42	117.17
270	1642850.00	516984.91	117.17
271	1642850.00	516982.41	117.17
272	1642850.00	516973.59	120.00
273	1642850.00	516964.79	120.00
274	1642700.00	516989.32	116.92
275	1642700.00	516986.82	116.92
276	1642700.00	516984.31	116.92
277	1642675.00	516990.03	116.89
278	1642675.00	516987.53	116.89
279	1642675.00	516985.03	116.89
280	1642650.00	516990.74	116.85
281	1642650.00	516988.24	116.85
282	1642650.00	516985.74	116.85
283	1642625.00	516991.46	116.82
284	1642625.00	516988.96	116.82
285	1642625.00	516986.45	116.82
286	1642600.00	516992.17	116.78
287	1642600.00	516989.67	116.78
288	1642600.00	516987.17	116.78
289	1642575.00	516992.88	116.75
290	1642575.00	516990.38	116.75
291	1642575.00	516987.88	116.75
292	1642550.00	516993.60	116.71
293	1642550.00	516991.09	116.71
294	1642550.00	516988.59	116.71
295	1642525.00	516994.31	116.68
296	1642525.00	516991.81	116.68
297	1642525.00	516989.31	116.68
298	1642509.05	516989.67	116.68
299	1642504.50	516994.91	116.65
300	1642493.06	516995.24	116.64

POINT NO.	NORTHING	EASTING	ELEV. (FT.)
301	1642492.99	516992.74	116.64
302	1642737.50	516988.25	116.97
303	1642737.50	516985.75	116.97
304	1642737.50	516983.24	116.97
305	1642737.50	516969.79	121.46
306	1642715.49	515806.74	116.00
307	1642715.52	515809.24	116.00
308	1642715.54	515811.74	116.00
309	1642756.67	515797.31	120.00
310	1642756.72	515806.31	117.00
311	1642756.73	515808.81	117.00
312	1642756.75	515811.31	117.00
313	1642756.62	515825.07	120.00
314	1642800.00	515797.31	120.00
315	1642800.00	515806.31	117.08
316	1642800.00	515808.81	117.08
317	1642800.00	515811.31	117.08
318	1642800.00	515824.98	120.00
319	1642850.00	515797.31	120.00
320	1642850.00	515806.31	117.18
321	1642850.00	515808.81	117.18
322	1642850.00	515811.31	117.18
323	1642850.00	515824.87	120.00
324	1642850.00	515833.67	120.00
325	1642900.00	515806.31	117.27
326	1642900.00	515808.81	117.27
327	1642900.00	515811.31	117.27
328	1642900.00	515824.75	120.00
329	1642900.00	515833.67	120.00
330	1642922.33	515809.03	117.31
331	1642922.00	515811.53	117.32
332	1642921.80	515814.04	117.32
333	1642920.64	515825.06	120.00
334	1642914.05	515824.72	120.00
335	1642914.05	515833.67	120.00
336	1642945.43	515817.79	117.36
337	1642944.36	515820.05	117.36
338	1642943.32	515822.32	117.36
339	1642939.79	515830.16	120.00
340	1642936.09	515838.37	120.00
341	1642968.53	515833.83	117.41
342	1642966.75	515835.59	117.41
343	1642964.98	515837.34	117.41
344	1642958.92	515843.33	120.00
345	1642952.46	515849.71	120.00
346	1642983.75	515855.91	117.46
347	1642981.51	515857.01	117.46
348	1642979.26	515858.11	117.46
349	1642971.67	515861.81	120.00
350	1642963.44	515865.83	120.00
351	1642990.65	515888.58	117.53
352	1642988.15	515888.55	117.53
353	1642985.65	515888.52	117.53
354	1642977.29	515888.42	120.00
355	1642968.05	515888.31	120.00
356	1642999.69	515950.00	120.00
357	1642989.92	515950.00	117.64
358	1642987.42	515950.00	117.64
359	1642984.92	515950.00	117.64
360	1642976.73	515950.00	120.00
361	1642967.32	515950.00	120.00
362	1642998.33	516000.00	120.00
363	1642989.33	516000.00	117.74
364	1642986.83	516000.00	117.74
365	1642984.33	516000.00	117.74
366	1642976.28	516000.00	120.00
367	1642966.73	516000.00	120.00
368	1643000.74	516050.00	120.00
369	1642997.74	516050.00	120.00
370	1642988.74	516050.00	117.83
371	1642986.24	516050.00	117.83
372	1642983.74	516050.00	117.83
373	1642975.84	516050.00	120.00
374	1642966.14	516050.00	120.00
375	1643000.15	516100.00	120.00
376	1642997.15	516100.00	120.00
377	1642988.15	516100.00	117.93
378	1642985.65	516100.00	117.93
379	1642983.15	516100.00	117.93
380	1642975.40	516100.00	120.00
381	1642965.55	516100.00	120.00
382	1642999.56	516150.00	120.00
383	1642996.56	516150.00	120.00
384	1642987.56	516150.00	118.03
385	1642985.06	516150.00	118.03
386	1642982.56	516150.00	118.03
387	1642974.98	516150.00	120.00
388	1642964.95	516150.00	120.00
389	1642998.97	516200.00	120.00
390	1642995.96	516200.00	120.00
391	1642986.96	516200.00	118.12
392	1642984.46	516200.00	118.12
393	1642981.96	516200.00	118.12
394	1642974.56	516200.00	120.00
395	1642964.36	516200.00	120.00
396	1642998.30	516256.53	120.00
397	1642995.30	516256.50	120.00
398	1642986.36	516256.39	118.23
399	1642983.80	516256.36	118.23
400	1642981.30	516256.33	118.23

POINT NO.	NORTHING	EASTING	ELEV. (FT.)
401	1642974.10	516256.24	120.00
402	1642963.70	516256.12	120.00
403	1642995.86	516299.67	119.99
404	1642986.87	516300.01	118.31
405	1642984.37	516300.11	118.31
406	1642981.87	516300.20	118.31
407	1642974.86	516300.47	120.00
408	1642964.29	516300.87	119.97
409	1642999.15	516348.89	119.97
410	1642990.19	516349.75	118.41
411	1642987.70	516349.99	118.41
412	1642985.21	516350.23	118.41
413	1642978.43	516350.87	120.00
414	1642967.69	516351.90	119.90
415	1643008.27	516397.79	120.00
416	1643005.30	516398.25	119.96
417	1642996.41	516399.62	118.50
418	1642993.94	516400.00	118.50
419	1642991.46	516400.38	118.50
420	1642984.92	516401.39	120.00
421	1642974.07	516403.06	119.88
422	1643017.30	516446.97	120.00
423	1643014.37	516447.59	119.96
424	1643005.57	516449.48	118.40
425	1643003.13	516450.00	118.40
426	1643000.68	516450.52	118.40
427	1642994.00	516451.95	120.00
428	1642983.47	516454.21	119.90
429	1643029.36	516496.19	120.00
430	1643026.47	516496.99	119.98
431	1643017.80	516499.39	118.31
432	1643015.39	516500.06	118.31
433	1643012.98	516500.72	118.31
434	1643006.20	516502.60	120.00
435	1642996.01	516505.41	119.98
436	1643044.53	516545.31	120.00
437	1643041.69	516546.28	119.98
438	1643033.18	516549.19	118.21
439	1643030.81	516550.00	118.21
440	1643028.44	516550.81	118.21
441	1643021.60	516553.15	120.00
442	1643011.79	516556.50	119.91
443	1643062.92	516594.48	120.00
444	1643060.14	516595.62	120.00
445	1643051.82	516599.05	118.11
446	1643049.50	516600.00	118.11
447	1643047.19	516600.95	118.11
448	1643040.33	516603.77	120.00
449	1643030.91	516607.65	120.00
450	1643085.09	516650.86	120.00
451	1643082.29	516651.96	120.00
452	1643073.92	516655.25	118.00
453	1643071.59	516656.17	118.00
454	1643069.27	516657.08	118.00
455	1643062.18	516659.87	120.00
456	1643052.89	516663.52	120.00
457	1643096.94	516698.34	119.92
458	1643093.96	516698.69	120.00
459	1643085.01	516699.71	117.92
460	1643082.53	516700.00	117.92
461	1643080.05	516700.29	117.92
462	1643072.33	516701.17	120.00
463	1643062.56	516702.30	120.00
464	1643095.33	516752.51	119.93
465	1643092.37	516751.99	120.00
466	1643083.51	516750.43	117.83
467	1643081.04	516750.00	117.83
468	1643078.58	516749.57	117.83
469	1643070.79	516748.20	120.00
470	1643061.25	516746.52	120.00
471	1643081.08	516798.33	120.00
472	1643078.35	516797.09	120.00
473	1643070.17	516793.34	117.74
474	1643067.90	516792.30	117.74
475	1643065.62	516791.26	117.74
476	1643058.31	516787.92	120.00
477	1643049.62	516783.94	120.00
478	1643051.38	516863.26	120.00
479	1643048.65	516862.01	120.00
480	1643040.47	516858.27	117.61
481	1643038.20	516857.23	117.61
482	1643035.92	516856.19	117.61
483	1643028.43	516852.77	120.00
484	1643019.92	516848.87	120.00
485	1643023.78	516908.94	119.97
486	1643021.41	516907.11	120.00
487	1643014.29	516901.61	117.52
488	1643012.31	516900.08	117.52
489	1643010.33	516898.55	117.52
490	1643003.71	516893.43	120.00
491	1642996.41	516887.79	120.00
492	1642991.43	516943.07	119.96
493	1642989.47	516940.79	120.00
494	1642983.60	516933.98	117.44
495	1642981.96	516932.08	117.44
496	1642980.33	516930.19	117.44
497	1642974.80	516923.77	120.00
498	1642968.84	516916.85	120.00
499	1642945.59	516960.35	117.35
500	1642944.39	516958.16	117.35

POINT NO.	NORTHING	EASTING	ELEV. (FT.)
501	1642943.18	516955.97	117.35
502	1642939.05	516948.44	120.00
503	1642934.71	516940.54	120.00
504	1642900.82	516978.88	117.27
505	1642900.13	516976.48	117.27
506	1642899.43	516974.08	117.27
507	1642897.00	516965.73	120.00
508	1642894.51	516957.18	120.00
509	1642838.95	516987.70	117.15
510	1642838.95	516985.20	117.15
511	1642838.94	516982.70	117.15
512	1642838.96	516973.86	120.00
513	1642838.95	516965.10	120.00
514	1642800.00	516987.70	117.08
515	1642800.00	516985.20	117.08
516	1642800.00	516982.70	117.08
517	1642800.00	516973.78	120.00
518	1642800.00	516965.10	120.00
519	1642756.65	516987.70	117.00
520	1642756.62	516985.20	117.00
521	1642756.58	516982.70	117.00
522	1642756.62	516973.70	120.00
523	1642756.62	516965.10	120.00
524	1642715.38	516988.88	116.94
525	1642715.31	516986.38	116.94
526	1642715.24	516983.88	116.94
527	1642756.62	516950.00	112.45
528	1642756.62	516900.00	87.45
529	1642756.62	516853.10	64.00
530	1642760.62	516853.10	64.00
531	1642766.26	516847.46	61.18
532	1642802.39	516845.98	60.44
533	1642804.39	516843.94	59.42
534	1642806.39	516845.98	60.44
535	1642838.94	516847.31	61.11
536	1642850.00	516846.99	61.33
537	1642861.87	516844.91	61.54
538	1642878.71	516838.53	61.81
539	1642893.14	516828.99	62.01
540	1642904.81	516817.00	62.12
541	1642914.71	516800.75	62.16
542	1642937.83	516750.00	62.11
543	1642944.31	516735.77	62.10
544	1642947.12	516726.48	62.06
545	1642947.23	516715.55	61.96
546	1642944.58	516706.12	61.81
547	1642941.93	516700.00	61.69
548	1642920.26	516650.00	60.76
549	1642899.53	516600.00	59.85
550	1642881.83	516550.00	58.99
551	1642867.07	516500.00	58.20
552	1642855.14	516450.00	57.46
553	1642845.91	516400.00	56.77
554	1642839.31	516350.00	56.14
555	1642835.30	516300.00	55.56
556	1642833.83	516250.00	55.03
557	1642833.40	516200.00	54.52
558	1642832.97	516150.00	54.01
559	1642832.55	516100.00	53.51
560	1642832.12	516050.00	53.00
561	1642831.70	516000.00	52.49
562	1642831.44	515969.31	52.18
563	1642830.11	515969.65	52.15
564	1642829.65	515969.67	52.00
565	1642829.65	515950.00	61.83
566	1642829.65	515900.00	86.83
567	1642829.65	515850.00	111.83
568	1642829.65	515833.67	120.00
569	1642817.65	515825.67	120.00
570	1642797.65	515825.67	120.00
571	1642785.65	515833.67	120.00
572	1642756.62	515833.67	120.00
573	1642756.62	515850.00	111.83
574	1642785.65	515850.00	111.83
575	1642797.65	515850.00	107.83
576	1642817.65	515850.00	107.83
577	1642817.65	515900.00	82.83
578	1642797.65	515900.00	82.83
579	1642785.65	515900.00	86.83
580	1642756.62	515900.00	86.83
581	1642756.62	515945.67	64.00
582	1642760.62	515945.67	64.00
583	1642785.65	515945.67	64.00
584	1642785.65	515950.00	61.83
585	1642797.65	515950.00	57.83
586	1642817.65	515950.00	57.83
587	1642817.65	515961.67	52.00
588	1642797.65	515961.67	52.00
589	1642797.65	515969.67	48.00
590	1642817.65	515969.67	48.00
591	1642817.65	515989.67	48.00
592	1642826.57	515998.59	50.97
593	1642829.65	516001.67	52.00
594	1642806.39	516001.67	52.00
595	1642804.39	515998.59	50.97
596	1642802.39	516001.67	52.00
597	1642785.65	516001.67	52.00
598	1642788.73	515998.59	50.97
599	1642797.65	515989.67	48.00
600	1642785.65	515969.67	52.00

POINT NO.	NORTHING	EASTING	ELEV. (FT.)
601	1642784.62	515969.60	52.03
602	1642760.62	516000.00	64.00
603	1642756.62	516000.00	64.00
604	1642756.62	516050.00	64.00
605	1642760.62	516050.00	64.00
606	1642782.87	516050.00	52.87
607	1642802.39	516050.00	52.48
608	1642804.39	516050.00	51.48
609	1642806.39	516050.00	52.48
610	1642806.39	516100.00	52.98
611	1642804.39	516100.00	51.98
612	1642802.39	516100.00	52.98
613	1642781.83	516100.00	53.39
614	1642760.62	516100.00	64.00
615	1642756.62	516100.00	64.00
616	1642756.62	516150.00	64.00
617	1642760.62	516150.00	64.00
618	1642780.79	516150.00	53.92
619	1642802.39	516150.00	53.48
620	1642804.39	516150.00	52.48
621	1642806.39	516150.00	53.48
622	1642806.39	516200.00	53.98
623	1642804.39	516200.00	52.98
624	1642802.39	516200.00	53.98
625	1642779.74	516200.00	54.44
626	1642760.62	516200.00	64.00
627	1642756.62	516200.00	64.00
628	1642756.62	516250.00	64.00
629	1642760.62	516250.00	64.00
630	1642778.70	516250.00	54.96
631	1642802.39	516250.00	54.48
632	1642804.39	516250.00	53.48
633	1642806.39	516250.00	54.48
634	1642806.39	516300.00	54.98
635	1642804.39	516300.00	53.98
636	1642802.39	516300.00	54.98
637	1642777.66	516300.00	55.48
638	1642760.62	516300.00	64.00
639	1642756.62	516300.00	64.00
640	1642756.62	516350.00	64.00
641	1642760.62	516350.00	64.00
642	1642776.62	516350.00	56.00
643	1642802.39	516350.00	55.48
644	1642804.39	516350.00	54.48
645	1642806.39	516350.00	55.48
646	1642806.39	516400.00	55.98
647	1642804.39	516400.00	54.98
648	1642802.39	516400.00	55.98
649	1642775.58	516400.00	56.52
650	1642760.62	516400.00	64.00
651	1642756.62	516400.00	64.00
652	1642756.62	516450.00	64.00
653	1642760.62	516450.00	64.00
654	1642774.54	516450.00	57.04
655	1642802.39	516450.00	56.48
656	1642804.39	516450.00	55.48
657	1642806.39	516450.00	56.48
658	1642806.39	516500.00	56.98
659	1642804.39	516500.00	55.98
660	1642802.39	516500.00	56.98
661	1642773.49	516500.00	57.56
662	1642760.62	516500.00	64.00
663	1642756.62	516500.00	64.00
664	1642756.62	516550.00	64.00
665	1642760.62	516550.00	64.00
666	1642772.45	516550.00	58.08
667	1642802.39	516550.00	57.48
668	1642804.39	516550.00	56.48
669	1642806.39	516550.00	57.48
670	1642806.39	516600.00	57.98
671	1642804.39	516600.00	56.98
672	1642802.39	516600.00	57.98
673	1642771.41	516600.00	58.60
674	1642760.62	516600.00	64.00
675	1642756.62	516600.00	64.00
676	1642756.62	516650.00	64.00
677	1642760.62	516650.00	64.00
678	1642770.37	516650.00	59.12
679	1642802.39	516650.00	58.48
680	1642804.39	516650.00	57.48
681	1642806.39	516650.00	58.48
682	1642806.39	516700.00	58.98
683	1642804.39	516700.00	57.98
684	1642802.39	516700.00	58.98
685	1642769.33	516700.00	59.64
686	1642760.62	516700.00	64.00
687	1642756.62	516700.00	64.00
688	1642756.62	516750.00	64.00
689	1642760.62	516750.00	64.00
690	1642768.29	516750.00	60.17
691	1642802.39	516750.00	59.48
692	1642804.39	516750.00	58.48
693	1642806.39	516750.00	59.48
694	1642806.39	516800.00	59.98
695	1642804.39	516800.00	58.98
696	1642802.39	516800.00	59.98
697	1642767.24	516800.00	60.69
698	1642760.62	516800.00	64.00
699	1642756.62	516800.00	64.00
700	1642800.00	516850.00	62.45

POINT NO.	NORTHING	EASTING	ELEV. (FT.)
701	1642800.00	516900.00	87.45
702	1642800.00	516950.00	112.45
703	1642850.00	516950.00	112.70
704	1642850.00	516900.00	87.74
705	1642850.00	516850.00	62.84
706	1642850.00	516800.00	60.86
707	1642850.00	516750.00	60.36
708	1642850.00	516700.00	59.86
709	1642850.00	516650.00	59.36
710	1642850.00	516600.00	58.86
711	1642850.00	516550.00	58.36
712	1642850.00	516500.00	57.86
713	1642850.00	516450.00	57.36
714	1642850.00	516400.00	58.77
715	1642850.00	516350.00	61.42
716	1642850.00	516300.00	62.90
717	1642850.00	516250.00	63.12
718	1642850.00	516200.00	62.82
719	1642850.00	516150.00	62.53
720	1642850.00	516100.00	62.23
721	1642850.00	516050.00	61.94
722	1642850.00	516000.00	61.64
723	1642847.12	515965.81	60.00
724	1642857.24	515955.81	65.00
725	1642867.36	515945.81	70.00
726	1642877.48	515935.81	75.00
727	1642887.60	515925.81	80.00
728	1642897.72	515915.81	85.00
729	1642907.84	515905.81	90.00
730	1642917.95	515896.82	95.00
731	1642928.05	515887.83	100.00
732	1642938.05	515887.95	105.00
733	1642948.05	515888.07	110.00
734	1642958.05	515888.19	115.00
735	1642964.05	515888.26	118.00
736	1642959.84	515867.59	118.00
737	1642954.42	515870.16	115.00
738	1642945.50	515874.74	110.00
739	1642949.62	515852.52	118.00
740	1642945.35	515856.74	115.00
741	1642938.24	515863.77	110.00
742	1642931.12	515870.80	105.00
743	1642924.01	515877.83	100.00
744	1642914.49	515887.23	95.00
745	1642904.37	515897.23	90.00
746	1642894.26	515907.23	85.00
747	1642884.14	515917.23	80.00
748	1642874.02	515927.23	75.00
749	1642863.90	515937.23	70.00
750	1642853.78	515947.23	65.00
751	1642843.66	515957.23	60.00
752	1642836.25	515964.56	55.00
753	1642834.11	515963.67	55.00
754	1642835.13	515953.67	60.00
755	1642845.24	515943.67	65.00
756	1642855.36	515933.67	70.00
757	1642865.48	515923.67	75.00
758	1642875.60	515913.67	80.00
759	1642885.72	515903.67	85.00
760	1642895.84	515893.67	90.00
761	1642905.96	515883.67	95.00
762	1642914.05	515873.67	100.00
763	1642914.05	515863.67	105.00
764	1642914.05	515853.67	110.00
765	1642914.05	515843.67	115.00
766	1642914.05	515837.67	118.00
767	1642900.00	515850.00	111.83
768	1642850.00	515850.00	111.83
769	1642850.00	515900.00	86.83
770	1642900.00	515950.00	86.34
771	1642900.00	516000.00	86.64
772	1642900.00	516050.00	86.93
773	1642900.00	516100.00	87.23
774	1642900.00	516150.00	87.53
775	1642900.00	516200.00	87.82
776	1642900.00	516250.00	88.12
777	1642900.00	516300.00	87.88
778	1642900.00	516350.00	86.31
779	1642900.00	516400.00	83.48
780	1642900.00	516450.00	79.39
781	1642900.00	516500.00	74.09
782	1642900.00	516550.00	67.61
783	1642900.00	516600.00	59.99
784	1642900.00	516650.00	60.36
785	1642900.00	516700.00	60.86
786	1642900.00	516750.00	61.36
787	1642900.00	516800.00	61.86
788	1642900.00	516850.00	72.47
789	1642900.00	516900.00	94.14
790	1642900.00	516950.00	117.42
791	1642950.00	516900.00	107.55
792	1642950.00	516850.00	90.17
793	1642950.00	516800.00	78.05
794	1642950.00	516750.00	67.65
795	1642950.00	516700.00	65.45
796	1642950.00	516650.00	74.60
797	1642950.00	516600.00	83.61
798	1642950.00	516550.00	91.58
799	1642950.00	516500.00	98.36
800	1642950.00	516450.00	103.92

POINT NO.	NORTHING	EASTING	ELEV. (FT.)
801	1642950.00	516400.00	108.21
802	1642950.00	516350.00	111.20
803	1642950.00	516300.00	112.86
804	1642950.00	516250.00	113.11
805	1642950.00	516200.00	112.82
806	1642950.00	516150.00	112.52
807	1642950.00	516100.00	112.23
808	1642950.00	516050.00	111.93
809	1642950.00	516000.00	111.64
810	1642950.00	515950.00	111.34
811	1642950.00	515900.00	111.05
812	1643000.00	516550.00	115.43
813	1643000.00	516600.00	107.00
814	1643000.00	516650.00	97.87
815	1643000.00	516700.00	89.33
816	1643000.00	516750.00	90.73
817	1643000.00	516800.00	100.78
818	1643000.00	516850.00	111.42
819	1643050.00	516750.00	114.82
820	1643050.00	516700.00	113.93
821	1642909.57	516719.88	61.25
822	1642838.95	516766.10	60.30
823	1642914.06	515887.67	94.79
824	1642996.04	516397.25	118.50
825	1642993.57	516397.62	118.50
826	1642991.10	516397.99	118.50
827	1642830.70	516002.72	52.50
828	1642784.89	516002.43	52.36
829	1642934.69	515842.13	118.00
830	1642932.38	515847.67	115.00
831	1642928.43	515856.86	110.00
832	1642715.03	515823.18	119.80

RECORD DRAWING NOTE

SEE ATTACHED BERGLUND CONSTRUCTION SERVICES, LLC SURVEY FOR ALL AS-BUILT ELEVATIONS, LOCATIONS, AND SLOPES.

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
APR 07 2011
SOUTHWEST DISTRICT TAMPA

RECORD DRAWING

DATE: APRIL 8, 2011

DOMINIQUE H. BRAMLETT, P.E.
LICENSE NO. 61829

REV	DATE	DESCRIPTION	BY
3	4/8/11	REVISED FOR THE RECORD	DHB
2	6/22/10	CONFORMED	DHB
1	4/11/10	ISSUED FOR BID	DHB

DRAWING TITLE
SITE GRADING CONTROL POINTS TABLE

PROJECT TITLE
CENTRAL LANDFILL PHASE 3 EXPANSION PROJECT CONSTRUCTION DRAWINGS

CLIENT
CITRUS COUNTY SOLID WASTE MANAGEMENT DIVISION CITRUS COUNTY, FLORIDA

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
4041 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
813 621-0080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

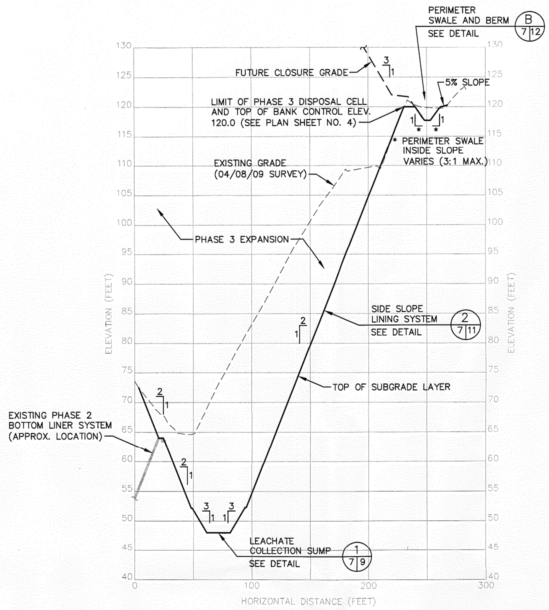
PROJ. NO. 09207049.06 | DSN. BY: DHB | CHK. BY: SDA/CTN | Q/A RVW BY: CEH | DWN. BY: DHB | APP. BY: CEH

CADD FILE: 074906GRAD-CNTRL

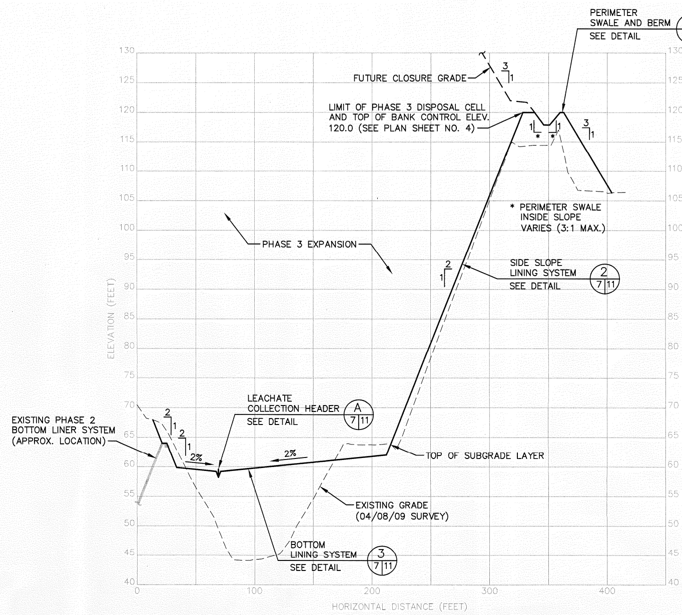
DATE: APRIL 2010

SCALE: AS SHOWN

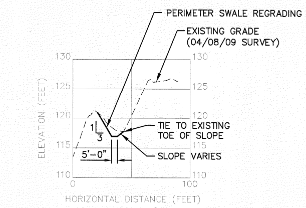
DRAWING NO. 6 of 21



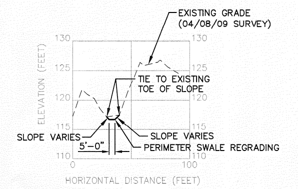
SECTION A 4|7
SCALE: 1" = 50' HORZ.
1" = 10' VERT.



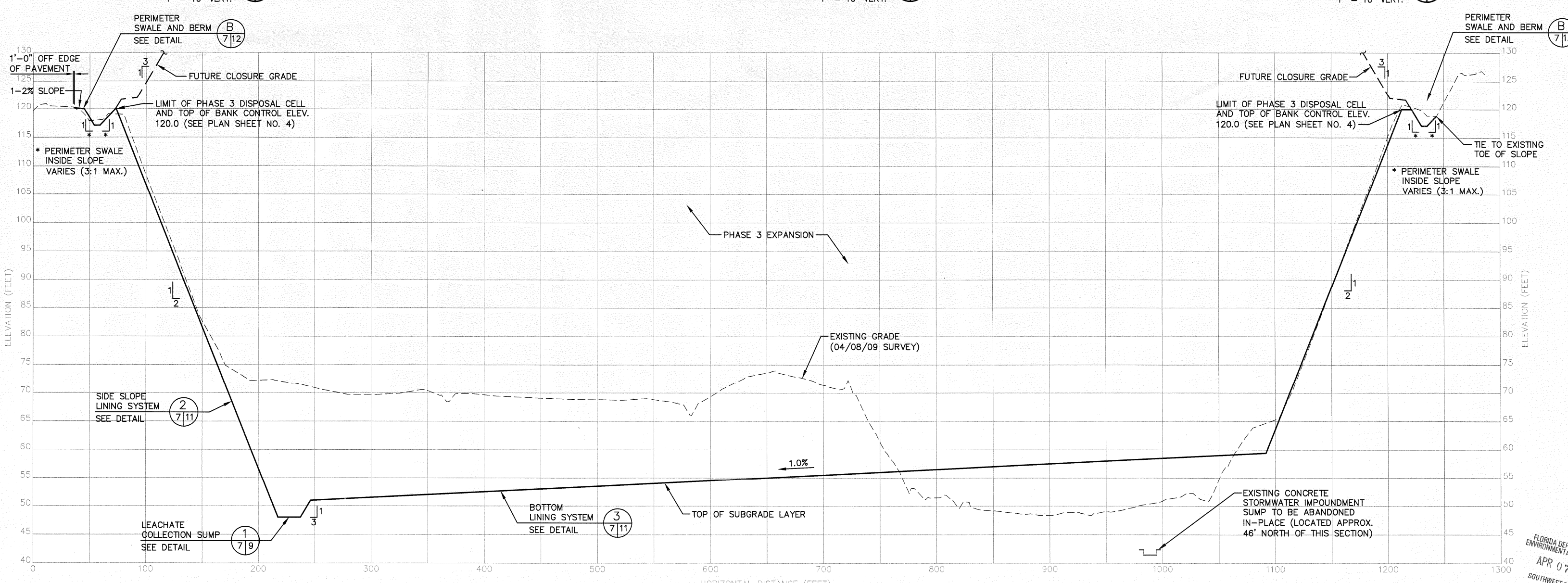
SECTION B 4|7
SCALE: 1" = 50' HORZ.
1" = 10' VERT.



SECTION D 4|7
SCALE: 1" = 50' HORZ.
1" = 10' VERT.



SECTION E 4|7
SCALE: 1" = 50' HORZ.
1" = 10' VERT.



SECTION C 4|7
SCALE: 1" = 50' HORZ.
1" = 10' VERT.

RECORD DRAWING NOTE

SEE ATTACHED BERGLUND CONSTRUCTION SERVICES, LLC SURVEY FOR ALL AS-BUILT ELEVATIONS, LOCATIONS, AND SLOPES.

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
APR 07 2011
SOUTHWEST DISTRICT TAMPA

RECORD DRAWING
DATE: APRIL 8, 2011

DOMINIQUE H. BRAMLETT, P.E. LICENSE NO. 61829

REV	DATE	DESCRIPTION	BY
3	4/8/11	REVISED FOR THE RECORD	DHB
2	6/22/10	CONFORMED	DHB
1	4/11/10	ISSUED FOR BID	DHB

DRAWING TITLE: SECTIONS

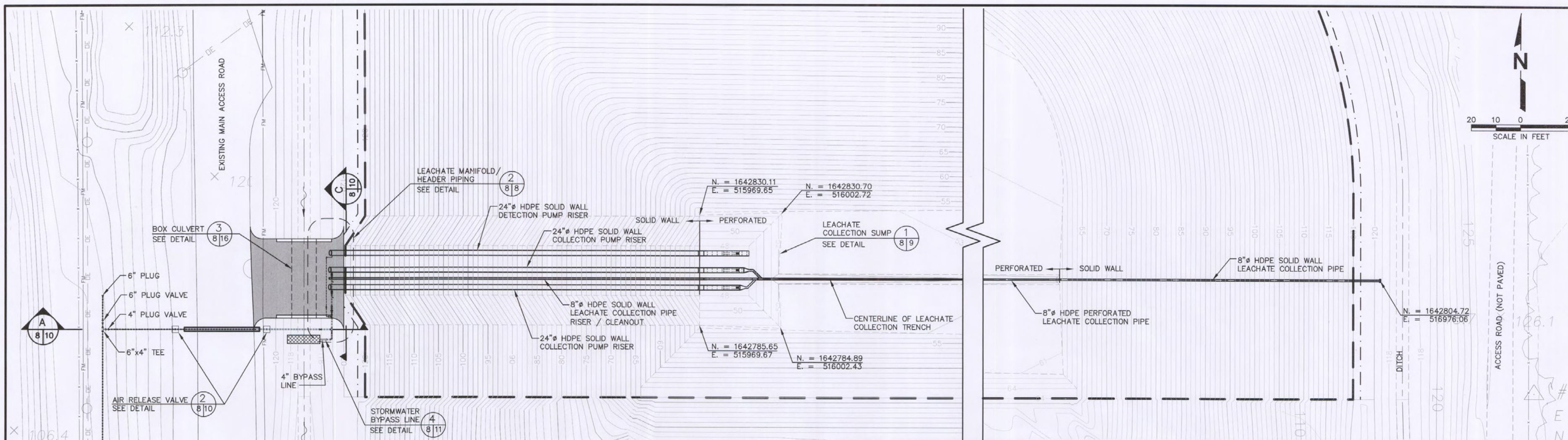
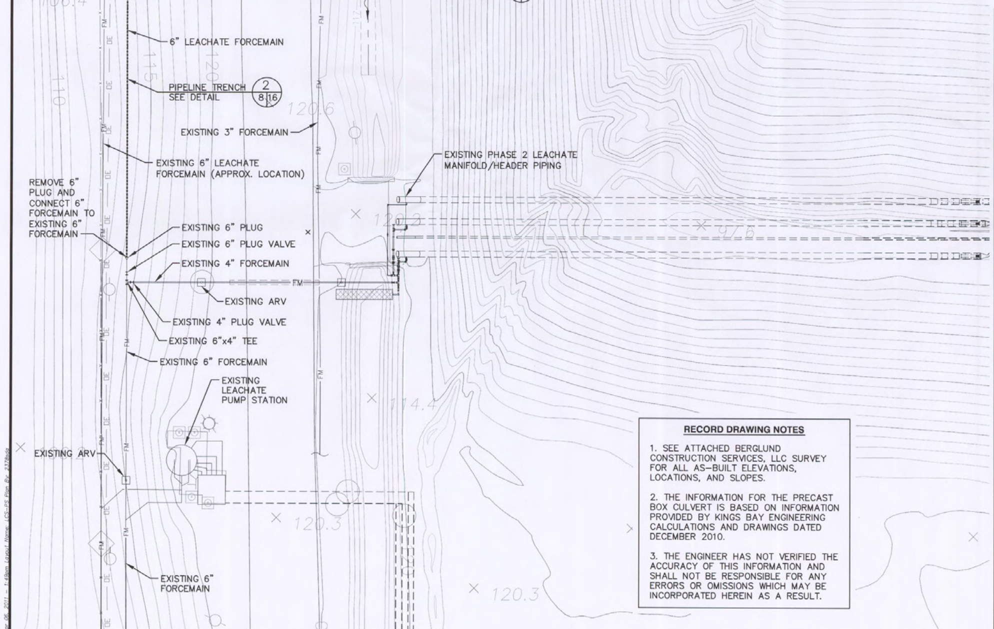
PROJECT TITLE: CENTRAL LANDFILL PHASE 3 EXPANSION PROJECT CONSTRUCTION DRAWINGS

CLIENT: CITRUS COUNTY SOLID WASTE MANAGEMENT DIVISION CITRUS COUNTY, FLORIDA

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS
4041 PARK OAKS BLVD, SUITE 100, TAMPA, FL 33610
813 621-0080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO.: 09207049.06 | DWN. BY: SDA/CTN | Q/A RVW BY: CEH
DSN. BY: DHB | CHK. BY: CEH | APP. BY: DHB

CADD FILE: 074906SECTIONS
DATE: APRIL 2010
SCALE: AS SHOWN
DRAWING NO. 7 of 21

RECORD DRAWING NOTES

1. SEE ATTACHED BERGLUND CONSTRUCTION SERVICES, LLC SURVEY FOR ALL AS-BUILT ELEVATIONS, LOCATIONS, AND SLOPES.
2. THE INFORMATION FOR THE PRECAST BOX CULVERT IS BASED ON INFORMATION PROVIDED BY KINGS BAY ENGINEERING CALCULATIONS AND DRAWINGS DATED DECEMBER 2010.
3. THE ENGINEER HAS NOT VERIFIED THE ACCURACY OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

SURVEY SOURCE NOTE:

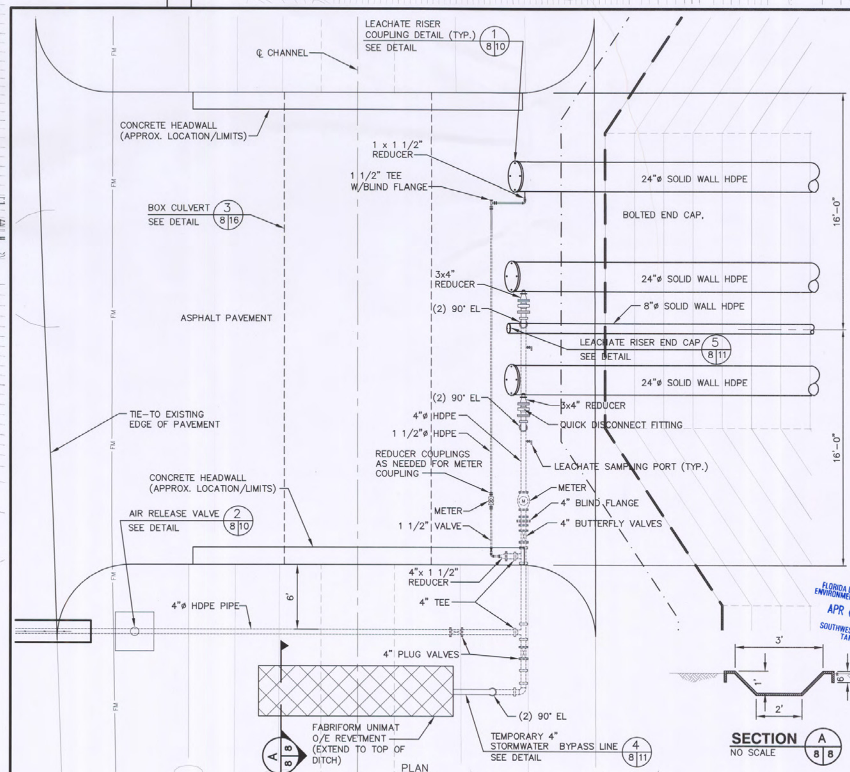
TOPOGRAPHIC SURVEY INFORMATION SHOWN WAS DEVELOPED BY PHOTOGRAMMETRIC METHODS AND PERFORMED BY PICKETT & ASSOCIATES, INC.
475 SOUTH FIRST AVENUE,
BARTOW, FL 33830,
TEL.: (863) 533-9095
BASED ON AERIAL PHOTO DATES: 08/26/08 AND 04/08/09.

LEACHATE COLLECTION SYSTEM HEADER, SUMP AND RISER PLAN 1 / 8

SCALE: 1" = 20'

LEGEND

- TOP OF SUBGRADE LAYER CONTOUR (5 FOOT INTERVAL)
- TOP OF SUBGRADE LAYER CONTOUR (1 FOOT INTERVAL)
- EXISTING GRADE CONTOUR (5 FOOT INTERVAL) 04/08/09 SURVEY
- EXISTING GRADE CONTOUR (1 FOOT INTERVAL) 04/08/09 SURVEY
- SURFACE WATER FLOW/SLOPE DIRECTION
- LIMIT OF PHASE 3 DISPOSAL CELL (AT TOP OF SLOPE)
- PHASE 3 LINER ANCHOR TRENCH TURN-DOWN POINT (OUTSIDE PERIMETER)



LEACHATE MANIFOLD / HEADER PIPING DETAIL 2 / 8

SCALE: 1" = 4'

SECTION A / 8

NO SCALE

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
APR 07 2011
SOUTHWEST DISTRICT TAMPA

RECORD DRAWING

DATE: APRIL 8, 2011

REV	DATE	DESCRIPTION	BY
	4/8/11	REVISED FOR THE RECORD	DHB
	6/22/10	CONFORMED	DHB
	4/11/10	ISSUED FOR BID	DHB

DOMINIQUE H. BRAMLETT, P.E.
LICENSE NO. 61829

DRAWING TITLE: LEACHATE COLLECTION SYSTEM DETAILS

PROJECT TITLE: CENTRAL LANDFILL PHASE 3 EXPANSION PROJECT CONSTRUCTION DRAWINGS

CLIENT: CITRUS COUNTY SOLID WASTE MANAGEMENT DIVISION CITRUS COUNTY, FLORIDA

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS
4041 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
813 621-0080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

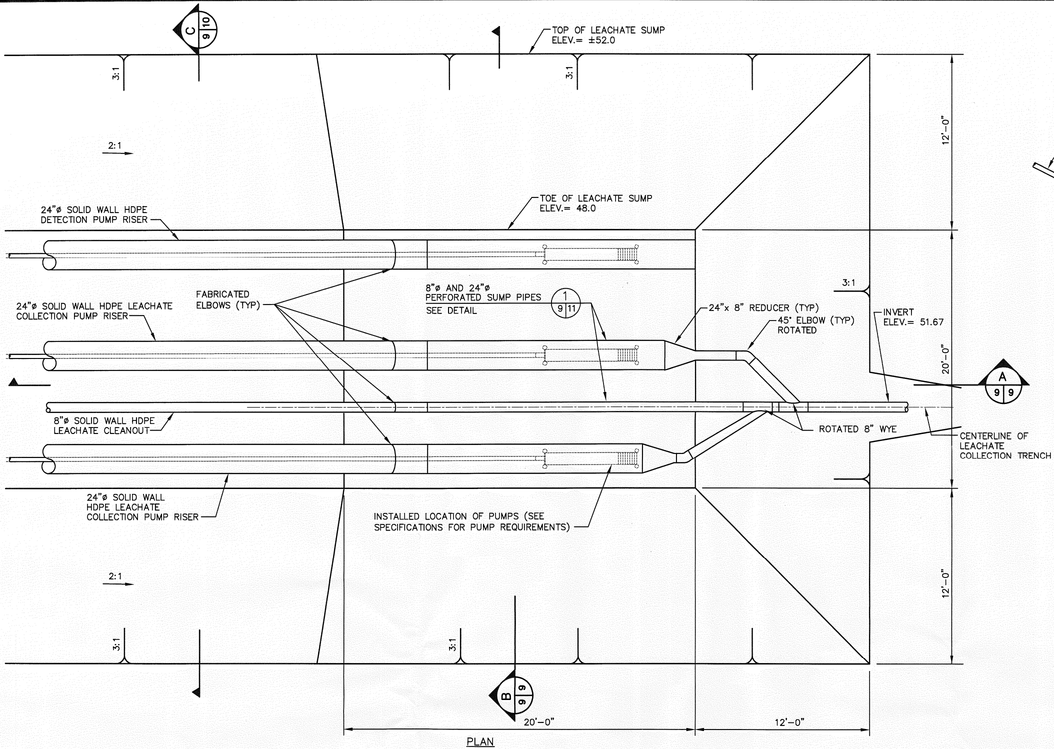
PROJ. NO. 09207049.06 | DSN. BY: SDA | Q/A RVW BY: CEH
DWN. BY: DHB | CHK. BY: CEH | APP. BY: DHB

CADD FILE: 074906LCSPLAN

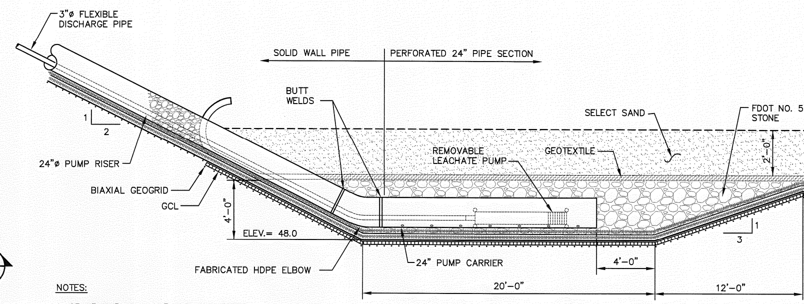
DATE: APRIL 2010

SCALE: AS SHOWN

DRAWING NO. **8** of 21



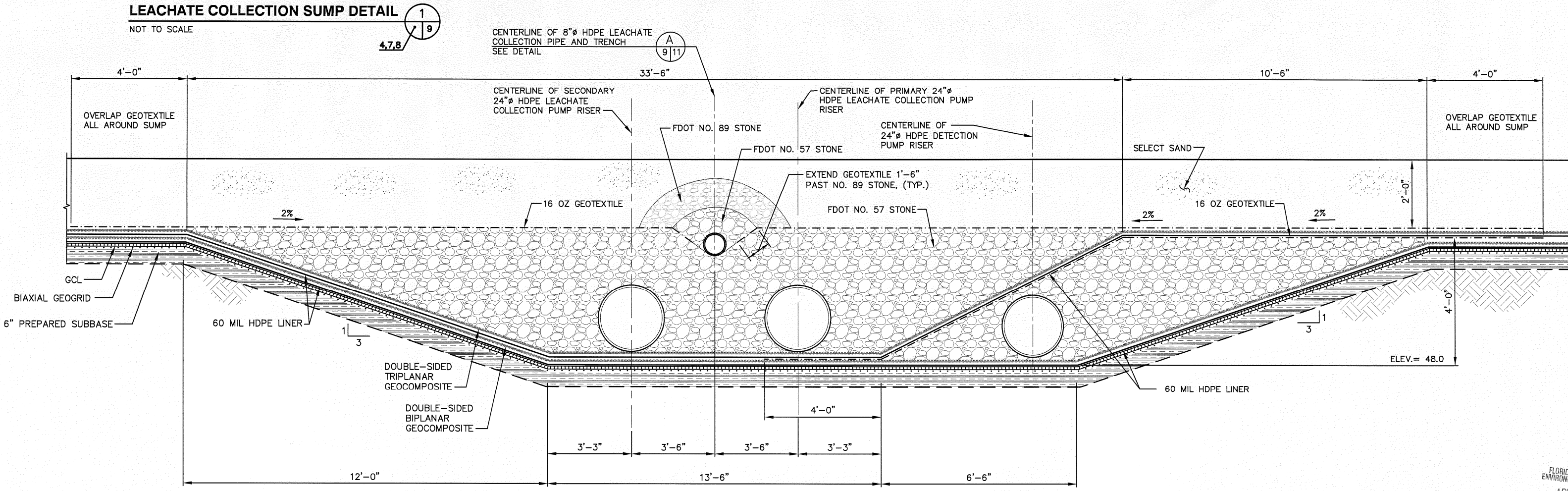
LEACHATE COLLECTION SUMP DETAIL
NOT TO SCALE



NOTES:

1. GEOTEXTILE SHALL BE CUT AND FITTED AROUND THE 24"ø PUMP RISER.
2. GEOTEXTILE SHALL EXTEND UP THE SLOPE UNTIL IT DAYLIGHTS ABOVE THE 2'-0" SELECT SAND COVER.
3. CONTRACTOR SHALL GRIND SMOOTH THE WELD BEAD ON THE INTERIOR OF THE 24" PUMP RISER TUBE, 24" ELBOW AND 24" PUMP CARRIER PIPES.
4. THE GEOCOMPOSITE DRAINAGE NETS SHALL OVERLAP A MINIMUM OF 20 FEET WHEN MATS INTERSECT AT ANGLES GREATER THAN 45°.

LEACHATE COLLECTION SUMP SECTION A
NOT TO SCALE



LEACHATE COLLECTION SUMP SECTION B
NOT TO SCALE

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
APR 07 2011
SOUTHWEST DISTRICT TAMPA

RECORD DRAWING NOTE
SEE ATTACHED BERGLUND CONSTRUCTION SERVICES, LLC SURVEY FOR ALL AS-BUILT ELEVATIONS, LOCATIONS, AND SLOPES.

RECORD DRAWING
DATE: APRIL 8, 2011

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3	6/22/10	CONFORMED	DHB
2	4/11/10	ISSUED FOR BID	DHB

DOMINIQUE H. BRAMLETT, P.E.
LICENSE NO. 61829

DRAWING TITLE: LEACHATE COLLECTION SYSTEM DETAILS

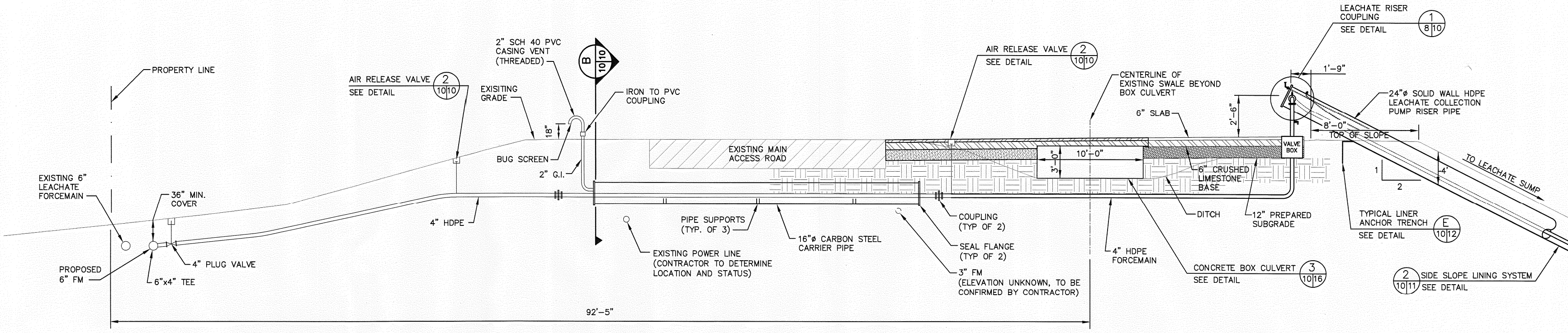
PROJECT TITLE: CENTRAL LANDFILL PHASE 3 EXPANSION PROJECT CONSTRUCTION DRAWINGS

CLIENT: CITRUS COUNTY SOLID WASTE MANAGEMENT DIVISION CITRUS COUNTY, FLORIDA

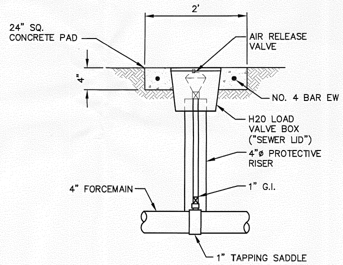
SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS
4041 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
813 621-0080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09207049.06 | DWN. BY: SDA/CTN | Q/A RVW BY: CEH
CHK. BY: DHB | APP. BY: DHB

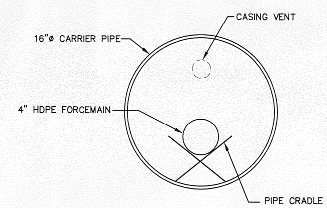
CADD FILE: 074906LCSDETLS
DATE: APRIL 2010
SCALE: AS SHOWN
DRAWING NO. 9 of 21



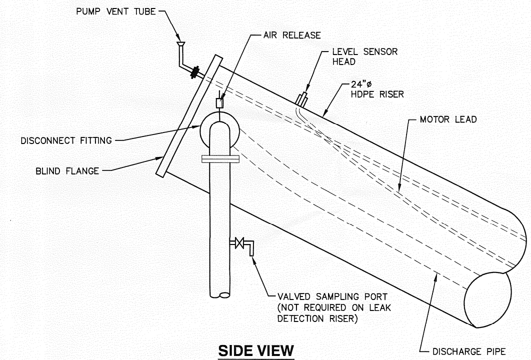
SECTION A 8/10
NOT TO SCALE



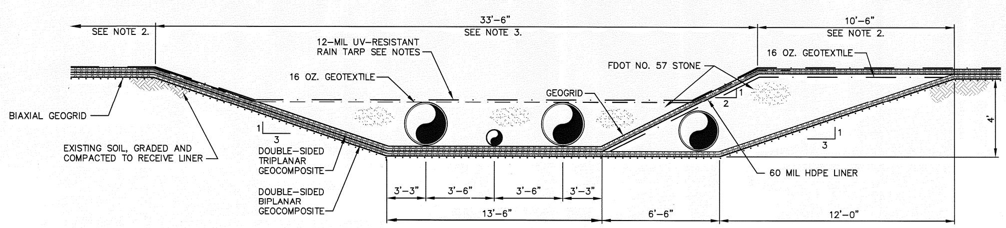
AIR RELEASE VALVE DETAIL 2 10
NOT TO SCALE
8,10



SECTION B 10/10
NOT TO SCALE



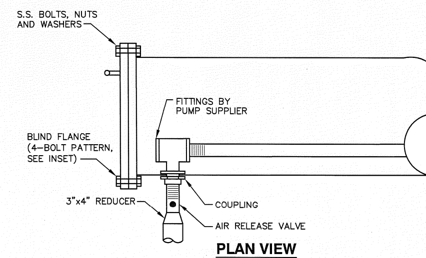
SIDE VIEW
NOT TO SCALE



NOTES:

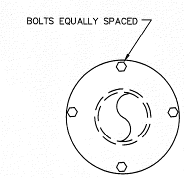
1. UV-RESISTANT RAIN TARP TO BE REMOVED AS FILLING OPERATIONS PROGRESS UP-SLOPE.
2. WHEN RAIN TARP IS REMOVED, 2'-0" OF SELECT SAND SHALL BE PLACED OVER GEOTEXTILE PRIOR TO PLACEMENT OF WASTE.
3. WHEN RAIN TARP IS REMOVED, PLACE 4'-0" OF SAND PRIOR TO PLACING WASTE.
4. ALL PIPES SHOWN ON SIDESLOPE ARE SOLID WALL (NON-PERFORATED).

LEACHATE SIDESLOPE RISER SECTION C 10
NOT TO SCALE
8,9



PLAN VIEW
NOT TO SCALE

LEACHATE RISER COUPLING DETAIL 1 8/10
NOT TO SCALE



BOLT PATTERN INSET FOR 8" & 24" RISER
NOT TO SCALE

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
APR 07 2011
SOUTHWEST DISTRICT TAMPA

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DOMINIC H. BRAMLETT, P.E.
LICENSE NO. 61829

DRAWING TITLE: **LEACHATE COLLECTION SYSTEM DETAILS**

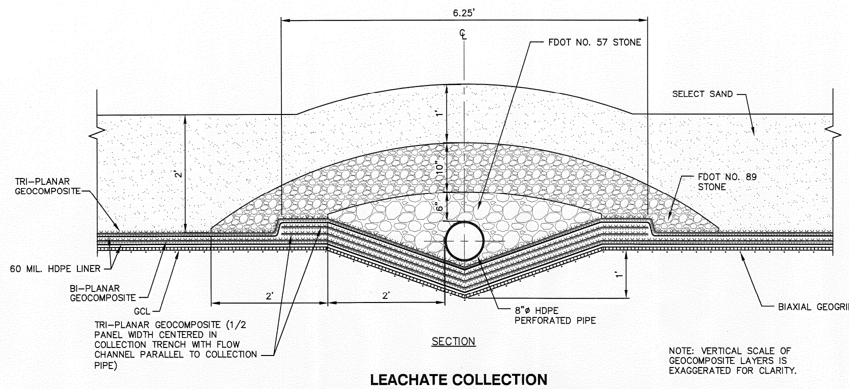
PROJECT TITLE: **CENTRAL LANDFILL PHASE 3 EXPANSION PROJECT CONSTRUCTION DRAWINGS**

CLIENT: **CITRUS COUNTY SOLID WASTE MANAGEMENT DIVISION CITRUS COUNTY, FLORIDA**

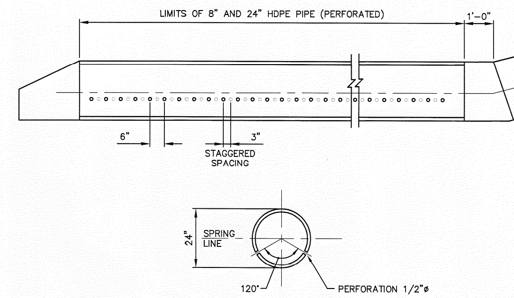
SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS
4041 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
813 621-0080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09207049.06 | DSN. BY: SDA/CTN | Q/A RVW BY: CEH
DWN. BY: DHB | CHK. BY: CEH | APP. BY: CEH

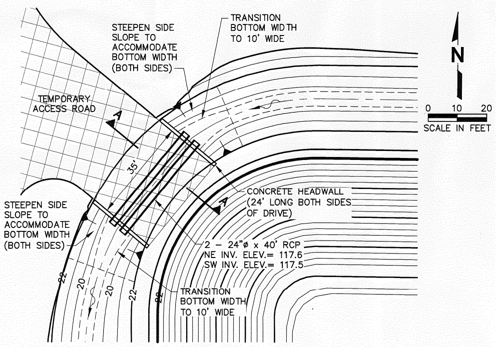
CADD FILE: 074906LCSDETLS
DATE: APRIL 2010
SCALE: AS SHOWN
DRAWING NO. 10 of 21



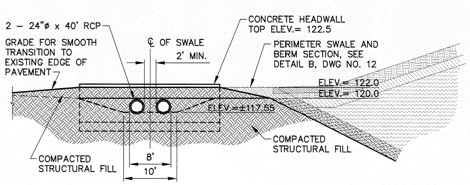
LEACHATE COLLECTION HEADER DETAIL (A / 11)
NOT TO SCALE
4,7,9



8" AND 24" SUMP PIPE PERFORATIONS DETAIL (1 / 9 | 11)
SCALE: 1" = 1'



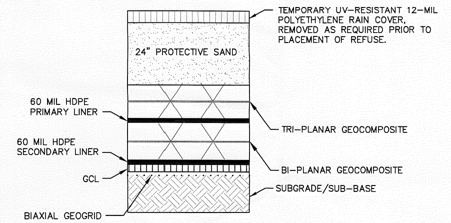
PLAN
SCALE: 1" = 20'



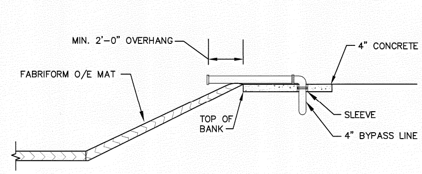
SECTION A-A
SCALE: 1" = 10'

24" RCP CULVERT DETAIL (6 / 4 | 11)
SCALE: AS SHOWN

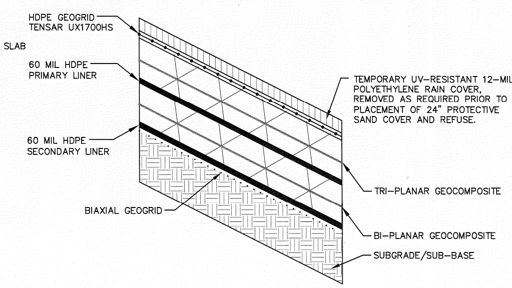
PRIOR TO WASTE FILLING



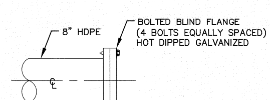
BOTTOM LINING SYSTEM DETAIL (3 / 7 | 11)
NOT TO SCALE



STORMWATER BYPASS LINE DETAIL (4 / 8 | 11)
NOT TO SCALE



SIDE SLOPE LINING SYSTEM DETAIL (2 / 11)
NOT TO SCALE
7,10,12



PIPE END CAP DETAIL (5 / 8 | 11)
NOT TO SCALE

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
APR 07 2011
SOUTHWEST DISTRICT TAMPA

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DOMINQUE H. BRAMLETT, P.E.
LICENSE NO. 61829

DRAWING TITLE
LEACHATE COLLECTION SYSTEM AND STORMWATER DETAILS

PROJECT TITLE
CENTRAL LANDFILL PHASE 3 EXPANSION PROJECT CONSTRUCTION DRAWINGS

CLIENT
CITRUS COUNTY SOLID WASTE MANAGEMENT DIVISION CITRUS COUNTY, FLORIDA

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS
4041 PARK OAKS BLVD, SUITE 100, TAMPA, FL 33610
813 621-0080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO.: 09207049.06
DWN. BY: SDA/CTN
Q/A RVW BY: CEH
DSN. BY: DHB
CHK. BY: CEH
APP. BY: DHB

CADD FILE: 074906LCSDETLS
DATE: APRIL 2010
SCALE: AS SHOWN
DRAWING NO. **11** of 21

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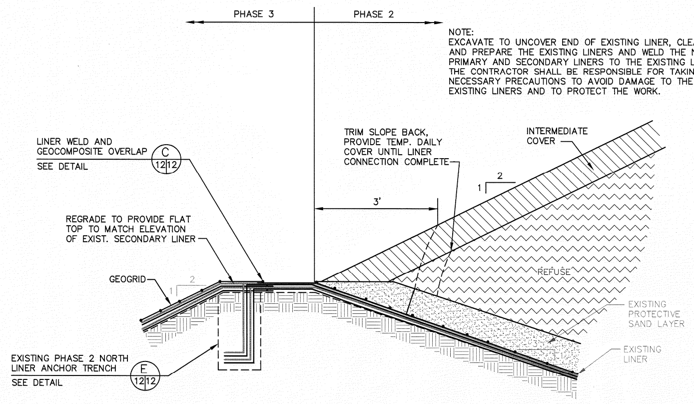
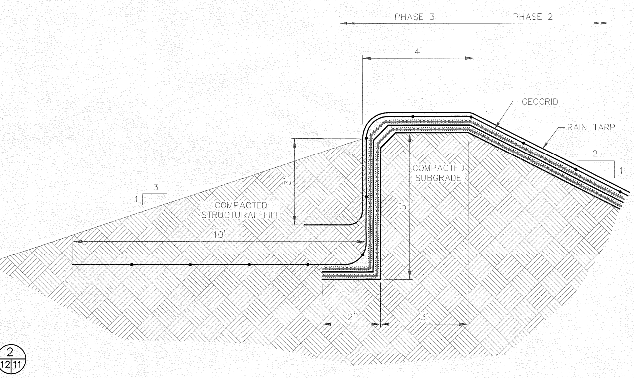


NOTE:
EXCAVATE TO UNCOVER END OF EXISTING LINER, CLEAN AND PREPARE THE EXISTING LINERS AND WELD THE NEW PRIMARY AND SECONDARY LINERS TO THE EXISTING LINER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING NECESSARY PRECAUTIONS TO AVOID DAMAGE TO THE EXISTING LINERS AND TO PROTECT THE WORK.

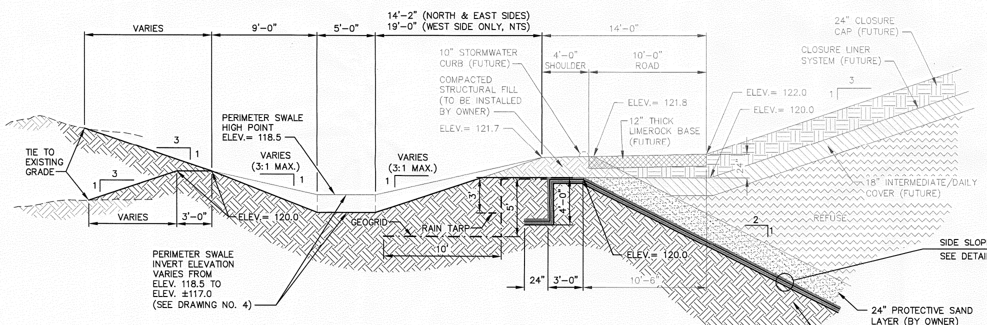
GENERAL STEPS FOR CONNECTING LINERS FROM PHASE 2 TO PHASE 3

1. REMOVE GRASSING AND INTERMEDIATE COVER AND TRIM BACK SLOPE TO EXPOSE EXISTING LINERS.
2. PROVIDE TEMPORARY DAILY COVER TO EXPOSED SLOPE UNTIL LINER CONNECTIONS ARE COMPLETE. COORDINATE WITH COUNTY, WHO WILL FURNISH COVER MATERIAL.
3. CUT ALL LINER LAYERS AT ANCHOR TRENCH, EXCEPT SECONDARY HDPE LINER (BOTTOM LINER).
4. EXTRUSION WELD NEW SECONDARY LINER TO EXPOSED EXISTING SECONDARY LINER. OVERLAP NEW GEOCOMPOSITE OVER EXISTING GEOCOMPOSITE 2'-0".
5. EXTRUSION WELD NEW PRIMARY LINER TO EXPOSED EXISTING PRIMARY LINER. OVERLAP NEW GEOCOMPOSITE OVER EXISTING GEOCOMPOSITE 2'-0".
6. TIE NEW GEOGRID TO EXISTING GEOGRID.
7. APPLY PROTECTIVE SAND COVER TO JOINED SECTIONS, AND REGRADE EXISTING WASTE SLOPE AS NEEDED (NOT SHOWN FOR CLARITY).

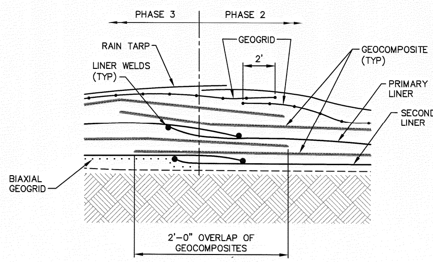
CONNECTION TO EXISTING LINER SECTION (A 4/12)
NOT TO SCALE



EXISTING PHASE 2 NORTH AND PROPOSED PHASE 3 LINER ANCHOR TRENCH SECTION (E 10,12/12)
NOT TO SCALE



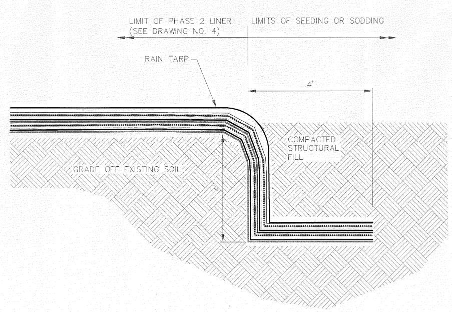
PERIMETER SWALE AND BERM SECTION (B 4,7/12)
SCALE: 1" = 5'



GENERAL NOTES:

1. EXPOSE LINERS FROM EXISTING ANCHOR TRENCH. (ANCHOR TRENCH NOT SHOWN).
2. PULL BACK RAIN TARP AND CUT EXISTING GEOGRID AT ADJOINING AREA.
3. PULL BACK ALL OTHER LINERS, WELD NEW SECONDARY LINER TO EXISTING SECONDARY LINER.
4. OVERLAP EXISTING GEOCOMPOSITE, THEN WELD NEW PRIMARY LINER TO EXISTING PRIMARY LINER.
5. THEN TIE NEW GEOGRID TO EXISTING GEOGRID.
6. THEN JOIN NEW RAIN TARP TO EXISTING RAIN TARP.

SIDE SLOPE LINING CONNECTION SECTION (C 4,12/12)
NOT TO SCALE



EXISTING PHASE 2 LINING SIDE SLOPE ANCHOR TRENCH SECTION (D 4/12)
NOT TO SCALE

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
APR 07 2011
SOUTHWEST DISTRICT TAMPA

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DOMINIQUE H. BEAMETT, P.E. LICENSE NO. 61829

DRAWING TITLE: LINER AND TRENCH SYSTEM DETAILS

PROJECT TITLE: CENTRAL LANDFILL PHASE 3 EXPANSION PROJECT CONSTRUCTION DRAWINGS

CLIENT: CITRUS COUNTY SOLID WASTE MANAGEMENT DIVISION CITRUS COUNTY, FLORIDA

SCS ENGINEERS
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813 621-0080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892
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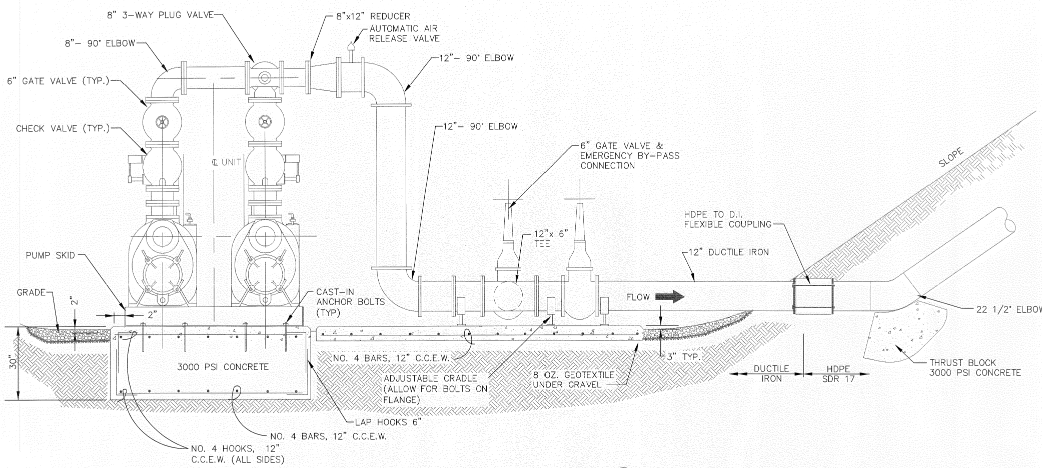
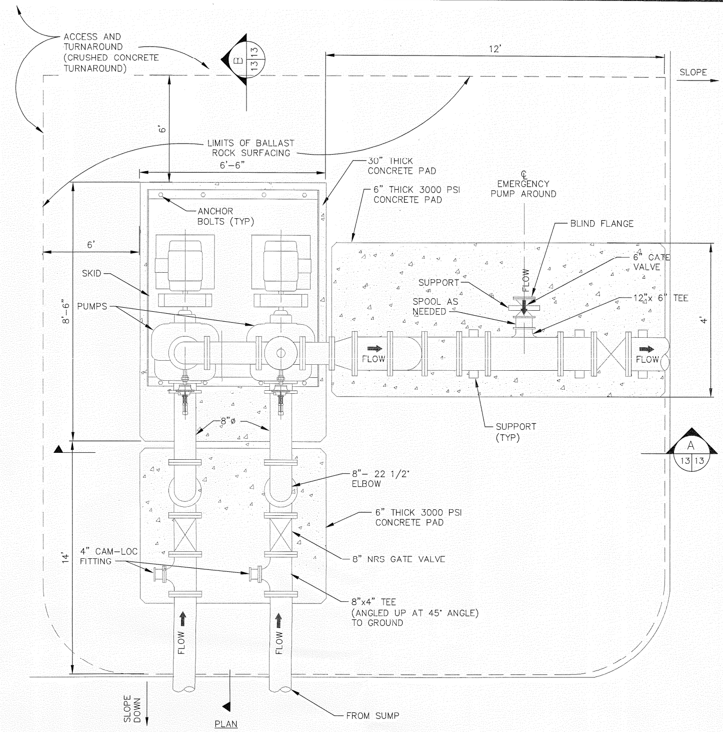
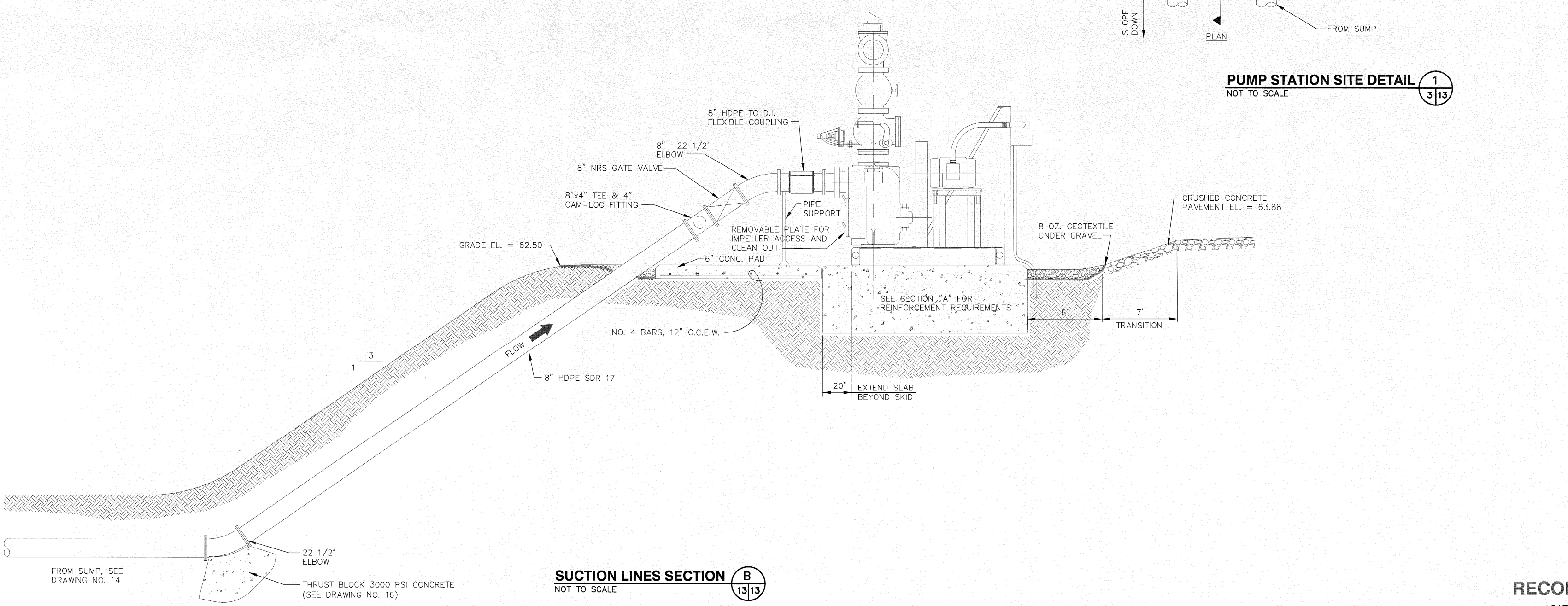
CADD FILE: 074906DTLS1
DATE: APRIL 2010
SCALE: AS SHOWN
DRAWING NO. **12** of 21



DISCHARGE LINE SECTION (A / 13|13)
NOT TO SCALE



PUMP STATION SITE DETAIL (1 / 3|13)
NOT TO SCALE



SUCTION LINES SECTION (B / 13|13)
NOT TO SCALE

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
APR 07 2011
SOUTHWEST DISTRICT TAMPA

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DOMINIQUE M. BRAMLETT, P.E.
LICENSE NO. 61829

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DRAWING TITLE
STORMWATER PUMP STATION DEMOLITION DETAILS

PROJECT TITLE
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CADD FILE: 074906SMPDTLS
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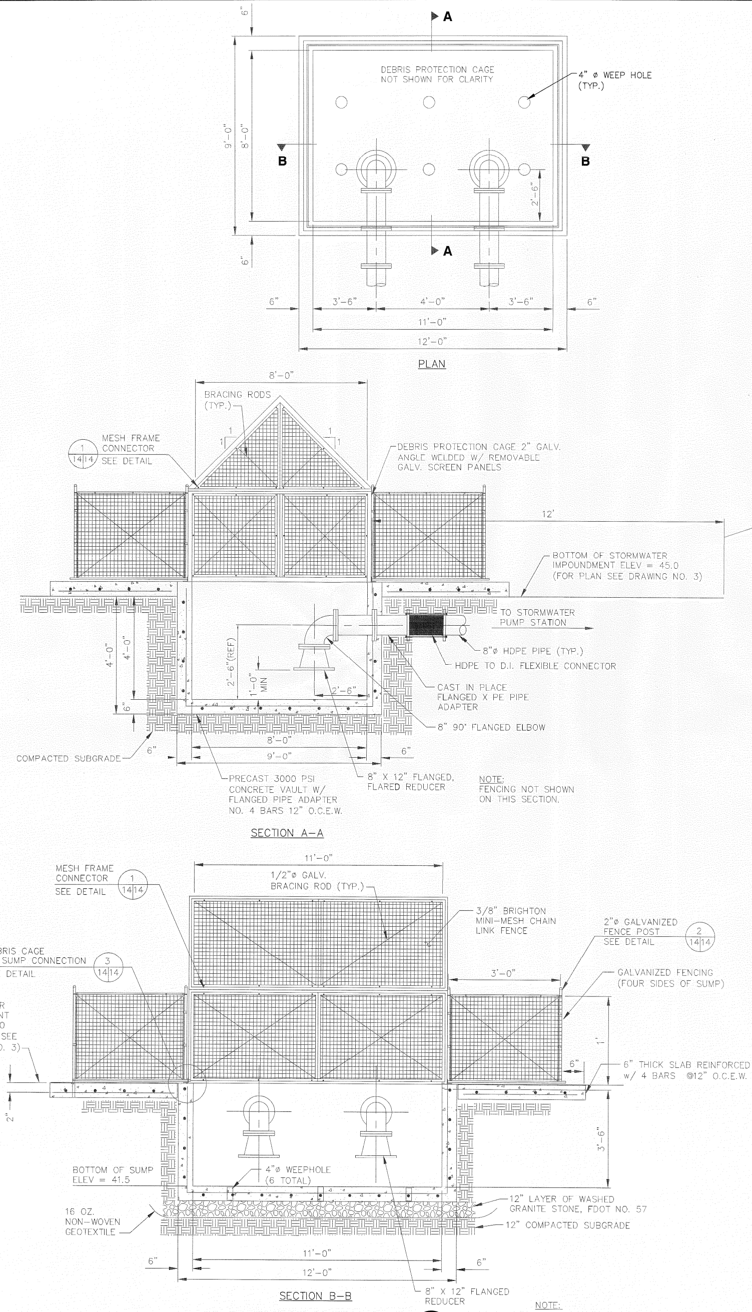
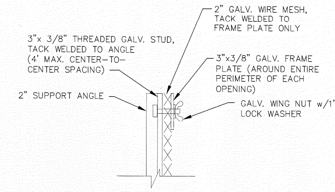
SCALE: AS SHOWN
DRAWING NO.
13 of **21**

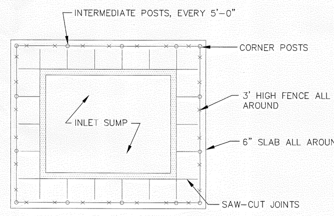


DUAL PIPE INLET SUMP DETAIL 4 3|14
NOT TO SCALE

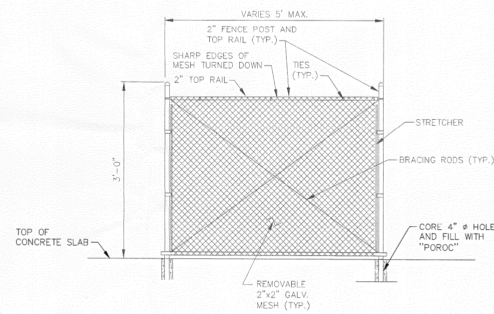
NOTE:
FOR FENCE PLAN VIEW, SEE SUMP FENCING PLAN THIS SHEET.



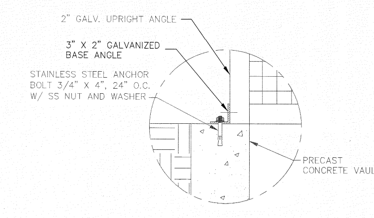
MESH FRAME CONNECTOR DETAIL 1 14|14
NOT TO SCALE



SUMP FENCING DETAIL 5 14|14
NOT TO SCALE



SUMP FENCING DETAIL 2 14|14
NOT TO SCALE



DEBRIS CAGE TO SUMP CONNECTION DETAIL 3 14|14
NOT TO SCALE

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
APR 07 2011
SOUTHWEST DISTRICT TAMPA

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LICENSE NO. 61829

DRAWING TITLE
STORMWATER IMPOUNDMENT DEMOLITION DETAILS

PROJECT TITLE
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FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO.	DWN. BY:	Q/A RVW BY:
09207049.06	SDA/CTN	CEH
DSN. BY: DHB	CHK. BY: CEH	APP. BY: DHB

CADD FILE: 074906SMPDTLS
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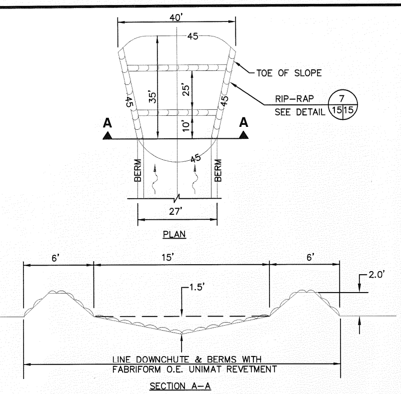
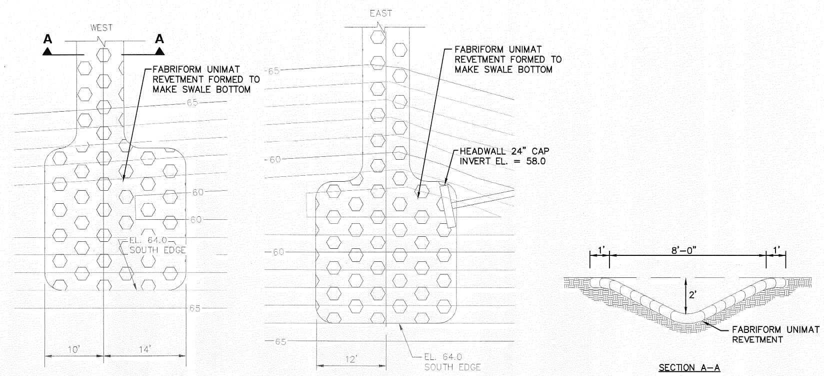
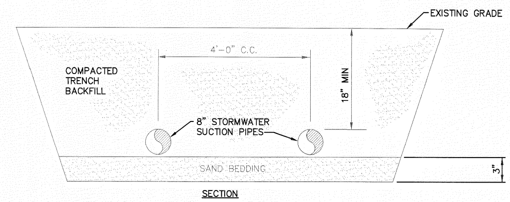
SCALE: AS SHOWN
DRAWING NO.
14 of **21**



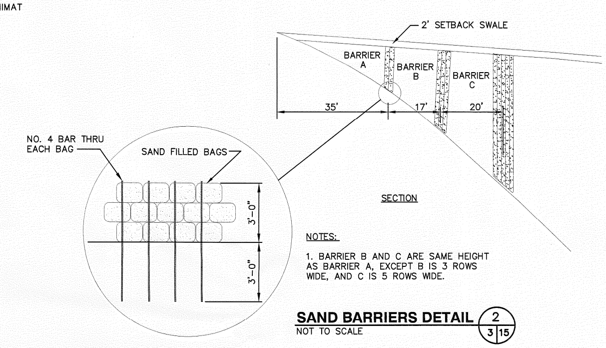
DOWNCHUTE SPILLWAY DETAIL 6 3|15
NOT TO SCALE



DOWNCHUTE SPILLWAY DETAIL 5 3|15
NOT TO SCALE



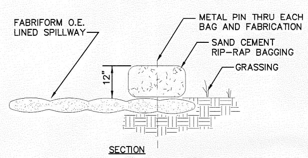
STORMWATER SUCTION PIPE TRENCH DETAIL 1 3|15
NOT TO SCALE



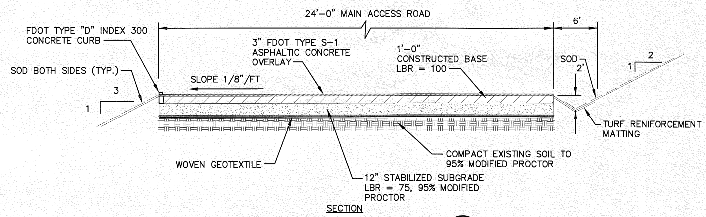
NOTES:

1. BARRIER B AND C ARE SAME HEIGHT AS BARRIER A, EXCEPT B IS 3 ROWS WIDE, AND C IS 5 ROWS WIDE.

SAND BARRIERS DETAIL 2 3|15
NOT TO SCALE



RIP-RAP DETAIL 7 15|15
NOT TO SCALE

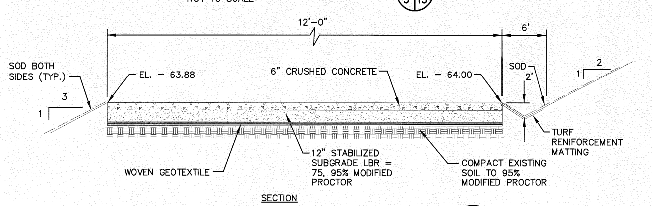


MAIN ACCESS ROAD DETAIL 8 3|15
NOT TO SCALE

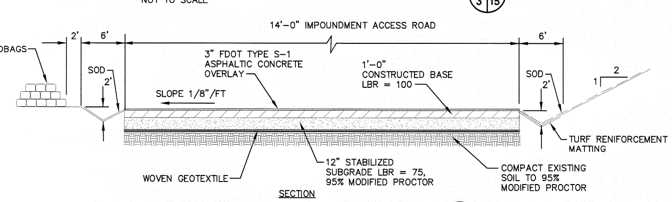
GENERAL NOTES:

1. THE CONTRACTOR SHALL SEGREGATE ROADWAY/ASPHALT MATERIALS. THE COUNTY SHALL DESIGNATE A MATERIALS STOCKPILE LOCATION ON PROJECT SITE.

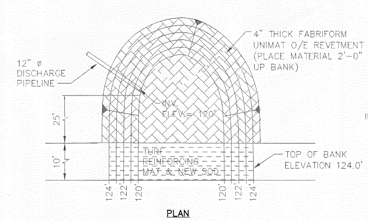
2. THE CONTRACTOR SHALL BREAKUP THE GFFR MATERIAL AND PLACE AT DESIGNATED LOCATION AS APPROVED BY COUNTY.



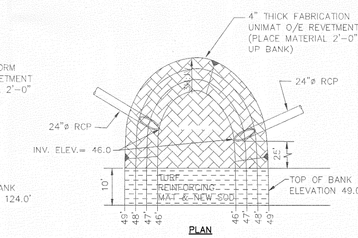
STORMWATER PUMP ACCESS ROAD DETAIL 9 3|15
NOT TO SCALE



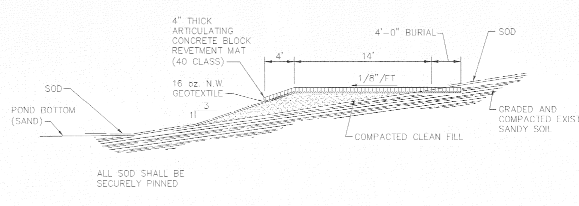
IMPOUNDMENT ACCESS ROAD DETAIL 10 3|15
NOT TO SCALE



SPILLWAY EROSION PROTECTION DETAIL 4 3|15
NOT TO SCALE



STORMWATER DISCHARGE PIPE PROTECTION DETAIL 3 3|15
NOT TO SCALE



IMPOUNDMENT SERVICE ROAD EROSION PROTECTION DETAIL 11 3|15
NOT TO SCALE

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
APR 07 2011
SOUTHWEST DISTRICT TAMPA

RECORD DRAWING
DATE: APRIL 8, 2011

REV	DATE	DESCRIPTION	BY
3	4/8/11	REVISED FOR THE RECORD	DHB
2	6/22/10	CONFORMED	DHB
1	4/11/10	ISSUED FOR BID	DHB

DOMINIQUE H. BRAMLETT, P.E.
LICENSE NO. 61829

DRAWING TITLE: STORMWATER AND MISCELLANEOUS DEMOLITION DETAILS

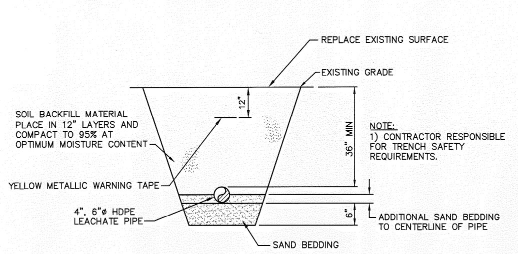
PROJECT TITLE: CENTRAL LANDFILL PHASE 3 EXPANSION PROJECT CONSTRUCTION DRAWINGS

CLIENT: CITRUS COUNTY SOLID WASTE MANAGEMENT DIVISION CITRUS COUNTY, FLORIDA

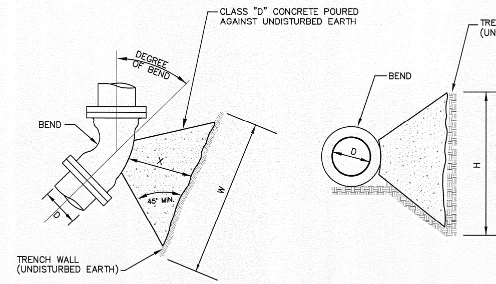
SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS
4041 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
813 621-0080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO.: 09207049.06 | DWN. BY: SDA/CTN | Q/A RVW BY: CEH
DSN. BY: DHB | CHK. BY: CEH | APP. BY: DHB

CADD FILE: 074906DTLS1
DATE: APRIL 2010
SCALE: AS SHOWN
DRAWING NO. 15 of 21



PIPELINE TRENCH DETAIL 2 / 8 | 16
NOT TO SCALE

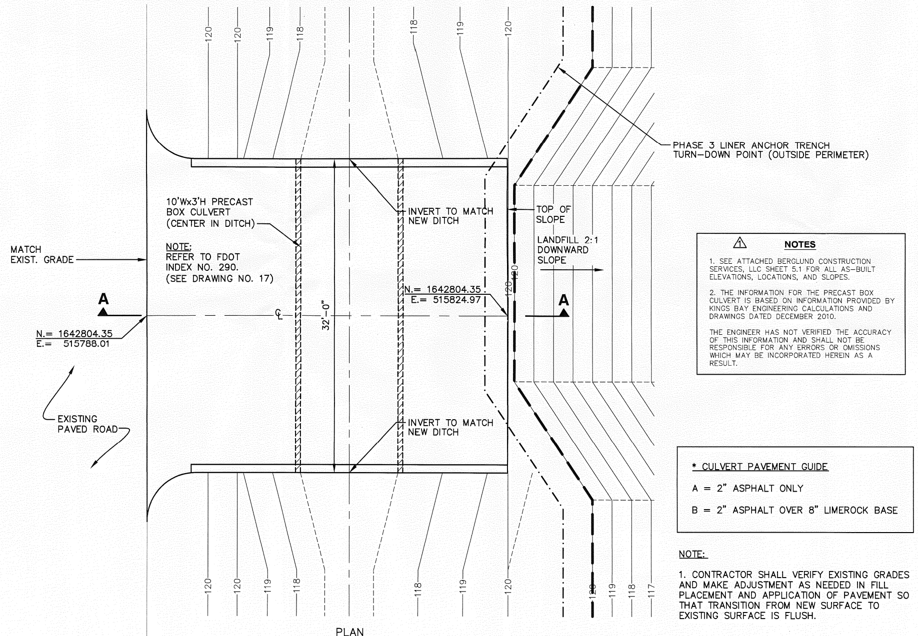


THRUST BLOCK DETAIL 1 / 13 | 16
NOT TO SCALE

DIMENSIONS OF THRUST BLOCKS FOR GOOD SOIL

	SIZE (D)	4"	6"	8"	12"
11-1/4" BEND	THRUST (lbs.)	532	1100	1892	4024
	BEARING AREA (ft.^{2})	0.27	0.55	0.95	2.01
	CONCRETE (yds^3)	0.02	0.04	0.08	0.24
	H	5"	7"	9"	1'-1"
	W	8"	1'-0"	1'-4"	1'-11"
	X	12" Min.	12" Min.	12" Min.	18" Min.
22-1/2" BEND	THRUST (lbs.)	1059	2188	3765	8010
	BEARING AREA (ft.^{2})	0.53	1.09	1.88	4.01
	CONCRETE (yds^3)	0.03	0.08	0.15	0.48
	H	7"	10"	1'-0"	1'-6"
	W	1'-0"	1'-5"	1'-10"	2'-8"
	X	12" Min.	12" Min.	12" Min.	18" Min.
45° BEND	THRUST (lbs.)	2078	4293	7384	15,711
	BEARING AREA (ft.^{2})	1.04	2.15	3.69	7.81
	CONCRETE (yds^3)	0.07	0.16	0.30	0.94
	H	9"	1'-1"	1'-5"	2'-1"
	W	1'-4"	2'-0"	2'-6"	3'-8"
	X	12" Min.	12" Min.	12" Min.	18" Min.
6'-8"	THRUST (lbs.)	3838	7932	13,645	15,711
	BEARING AREA (ft.^{2})	1.92	3.97	6.82	14.51
	CONCRETE (yds^3)	0.12	0.29	0.55	1.75
	H	1'-0"	1'-6"	2'-0"	2'-11"
	W	1'-10"	2'-8"	3'-5"	5'-0"
	X	12" Min.	12" Min.	12" Min.	18" Min.

NOTES:
1. Concrete shall be kept at sufficient distance from joint for removal of all joint accessories including bolts.
2. All bearing surfaces to be carried to undisturbed soil.
3. This table shows the minimum size thrust blocks for soil bearing pressure of 2000 psf and an internal pressure of 150 psi.
4. Poor and wet sol (silty soils, clay, muck and peat) will require larger thrust blocks.
5. Fittings shall be completely polywrapped prior to pouring thrust blocks.



⚠ 1 **NOTES**

1. SEE ATTACHED BERGLUND CONSTRUCTION SERVICES, LLC SHEET 5.1 FOR ALL AS-BUILT ELEVATIONS, LOCATIONS, AND SLOPES.

2. THE INFORMATION FOR THE PRECAST BOX CULVERT IS BASED ON INFORMATION PROVIDED BY KINGS BAY ENGINEERING CALCULATIONS AND DRAWINGS DATED DECEMBER 2010.

THE ENGINEER HAS NOT VERIFIED THE ACCURACY OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

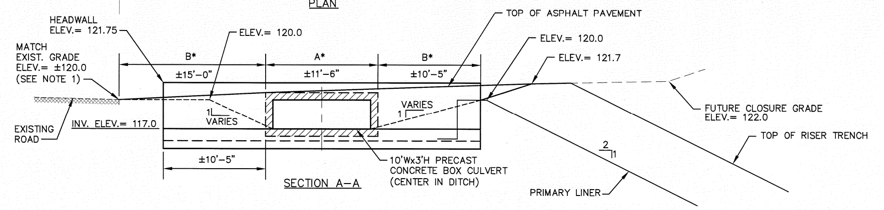
* CULVERT PAVEMENT GUIDE

A = 2" ASPHALT ONLY

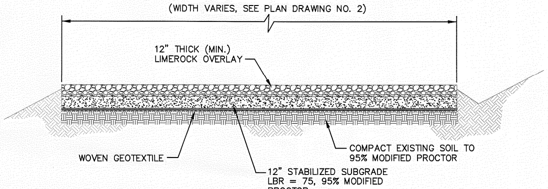
B = 2" ASPHALT OVER 8" LIMEROCK BASE

NOTE:

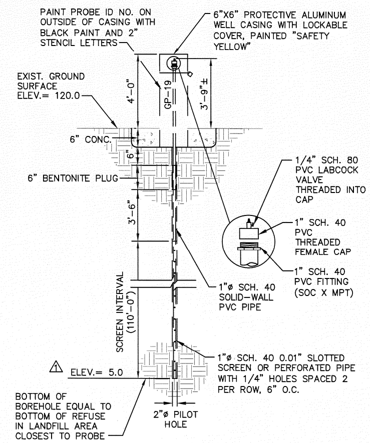
1. CONTRACTOR SHALL VERIFY EXISTING GRADES AND MAKE ADJUSTMENT AS NEEDED IN FILL PLACEMENT AND APPLICATION OF PAVEMENT SO THAT TRANSITION FROM NEW SURFACE TO EXISTING SURFACE IS FLUSH.



LEACHATE MANIFOLD CROSSING BOX CULVERT (LOCATED WEST OF PHASE 3) DETAIL 3 / 8,10 | 16
SCALE: 1" = 6'



ACCESS RAMP OVERLAY DETAIL 5 / 2 | 16
NOT TO SCALE



LFG MONITORING PROBE DETAIL 4 / 2 | 16
NOT TO SCALE

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
APR 07 2011
SOUTHWEST DISTRICT TAMPA

RECORD DRAWING
DATE: APRIL 8, 2011

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1	4/11/10	ISSUED FOR BID	DHB

DOMINIQUE H. BRAMLETT, P.E.
LICENSE NO. 61829

DRAWING TITLE: **STORMWATER AND MISCELLANEOUS DETAILS**

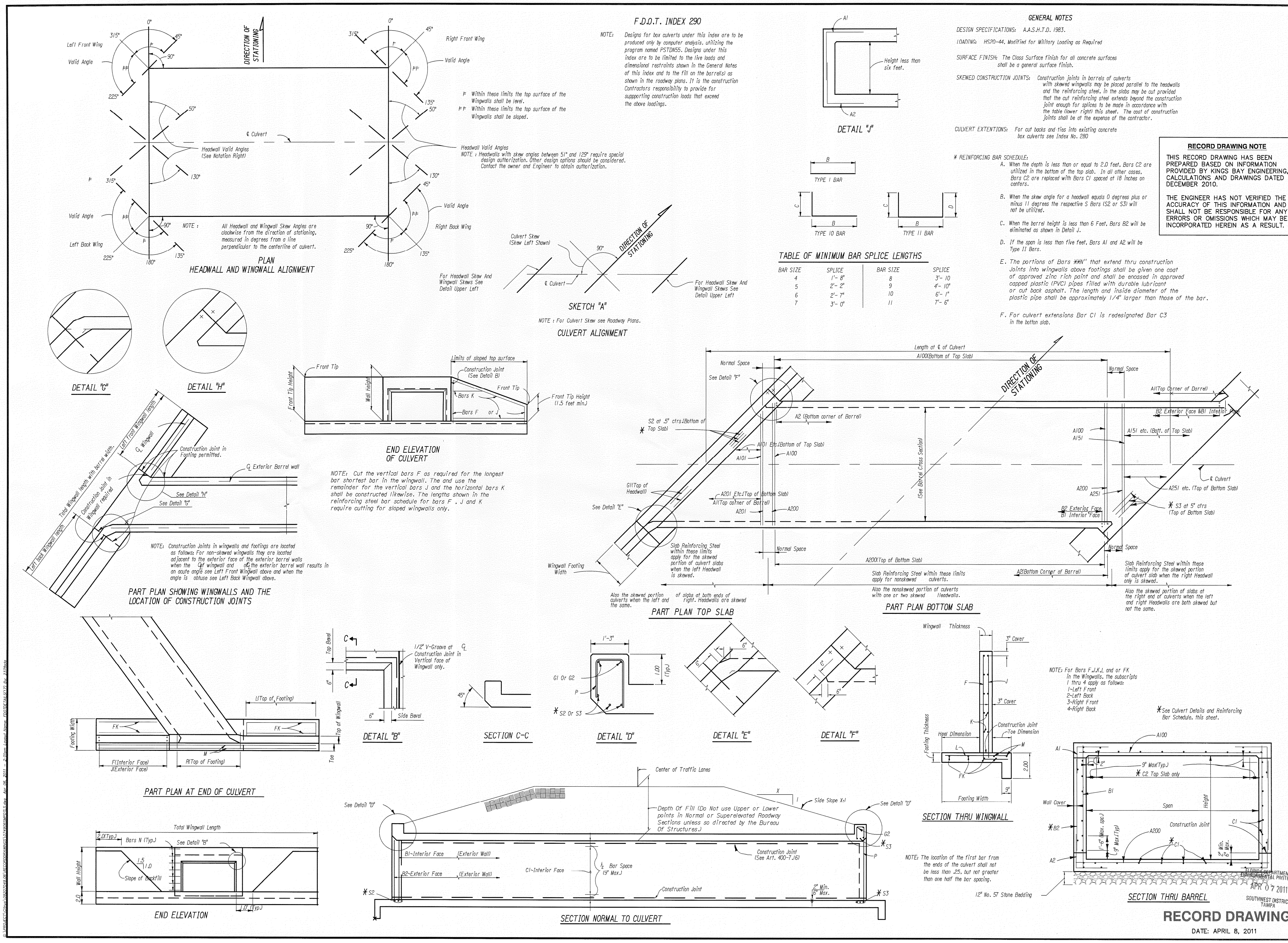
PROJECT TITLE: **CENTRAL LANDFILL PHASE 3 EXPANSION PROJECT CONSTRUCTION DRAWINGS**

CLIENT: **CITRUS COUNTY SOLID WASTE MANAGEMENT DIVISION CITRUS COUNTY, FLORIDA**

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS
4041 PARK OAKS BLVD, SUITE 100, TAMPA, FL 33610
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09207049.06 | DSN. BY: SDA/CTN | Q/A RVW BY: CEH
DWN. BY: DHB | CHK. BY: CEH | APP. BY: DHB

CADD FILE: 074906DTLS2
DATE: APRIL 2010
SCALE: AS SHOWN
DRAWING NO.
16 of 21



F.D.O.T. INDEX 290

NOTE: Designs for box culverts under this index are to be produced only by computer analysis, utilizing the program named PSTDN55. Designs under this index are to be limited to the live loads and dimensional restraints shown in the General Notes of this index and to the fill on the barrel(s) as shown in the roadway plans. It is the construction Contractors responsibility to provide for suppporting construction loads that exceed the above loadings.

GENERAL NOTES

DESIGN SPECIFICATIONS: A.A.S.H.T.O. 1983.

LOADING: HS20-44, Modified for Military Loading as Required

SURFACE FINISH: The Class Surface finish for all concrete surfaces shall be a general surface finish.

SKEWED CONSTRUCTION JOINTS: Construction joints in barrels of culverts with skewed wingwalls may be placed parallel to the headwalls and the reinforcing steel, in the slabs may be cut provided that the cut reinforcing steel extends beyond the construction joint enough for splices to be made in accordance with the table (lower right) this sheet. The cost of construction joints shall be at the expense of the contractor.

CULVERT EXTENTIONS: For cut backs and ties into existing concrete box culverts see Index No. 280

* REINFORCING BAR SCHEDULE:

A. When the depth is less than or equal to 2.0 feet, Bars C2 are utilized in the bottom of the top slab. In all other cases, Bars C2 are replaced with Bars C1 spaced at 18 inches on centers.

B. When the skew angle for a headwall equals 0 degrees plus or minus 11 degrees the respective S Bars (S2 or S3) will not be utilized.

C. When the barrel height is less than 6 Feet, Bars B2 will be eliminated as shown in Detail J.

D. If the span is less than five feet, Bars A1 and A2 will be Type II Bars.

E. The portions of Bars **N" that extend thru construction Joints into wingwalls above footings shall be given one coat of approved zinc rich paint and shall be encased in approved capped plastic (PVC) pipes filled with durable lubricant or cut back asphalt. The length and inside diameter of the plastic pipe shall be approximately 1/4" larger than those of the bar.

F. For culvert extensions Bar C1 is redesignated Bar C3 in the botton slab.

TABLE OF MINIMUM BAR SPLICE LENGTHS

BAR SIZE	SPLICE	BAR SIZE	SPLICE
4	1'- 8"	8	3'- 10
5	2'- 2"	9	4'- 10"
6	2'- 7"	10	6'- 1"
7	3'- 0"	11	7'- 6"

RECORD DRAWING NOTE

THIS RECORD DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED BY KINGS BAY ENGINEERING, CALCULATIONS AND DRAWINGS DATED DECEMBER 2010.

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	6/22/10	CONFORMED	DHB
	4/11/10	ISSUED FOR BID	DHB

DOMINIQUE H. BRAMLETT, P.E.
LICENSE NO. 61829

DRAWING TITLE: STORMWATER BOX CULVERT DETAILS

PROJECT TITLE: CENTRAL LANDFILL PHASE 3 EXPANSION PROJECT CONSTRUCTION DRAWINGS

CLIENT: CITRUS COUNTY SOLID WASTE MANAGEMENT DIVISION CITRUS COUNTY, FLORIDA

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS
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FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09207049.06 | DWN. BY: SDA/CTN | Q/A RVW BY: CEH
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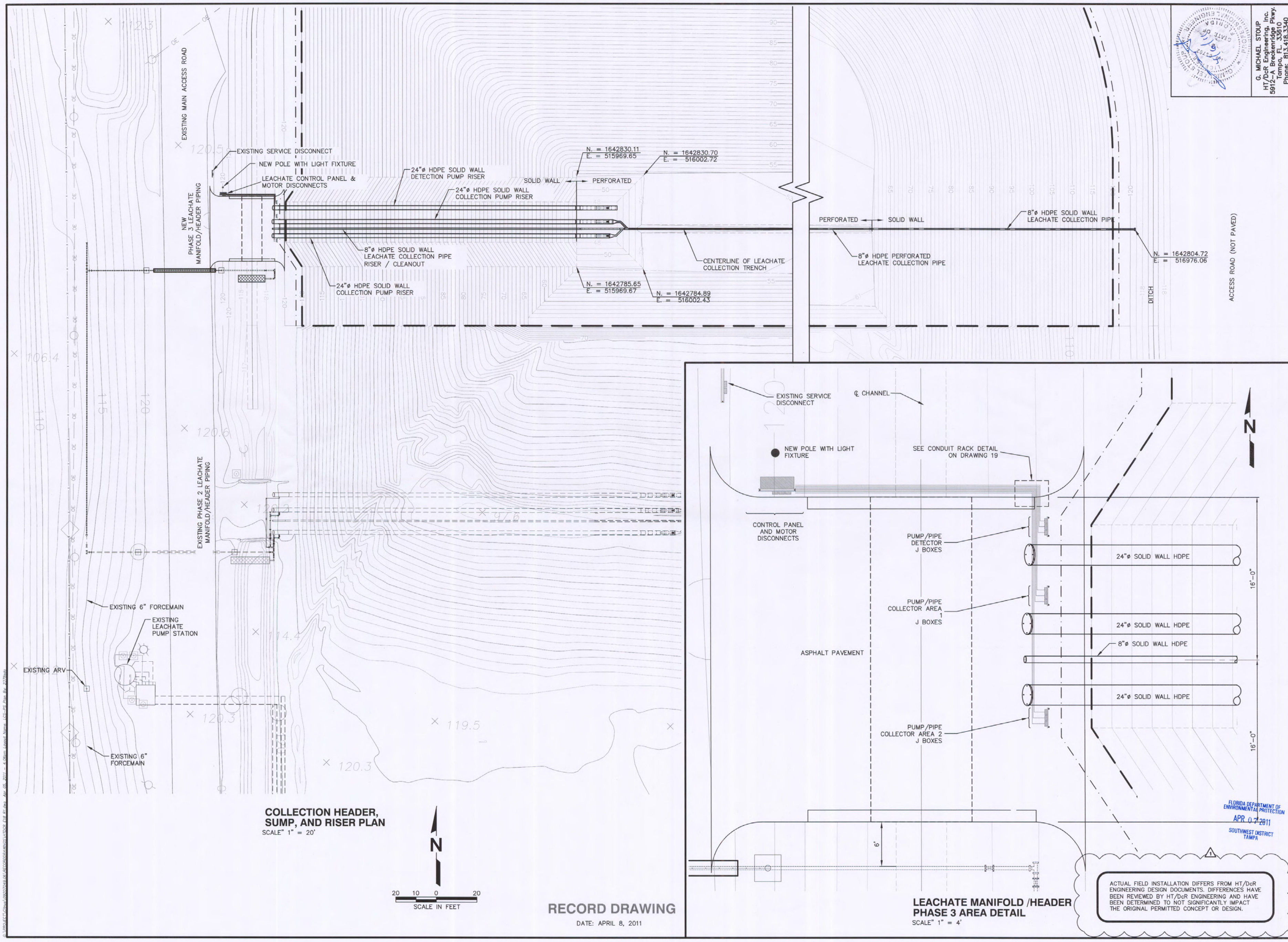
CADD FILE: 074906SMPDTLS

DATE: APRIL 2010

SCALE: AS SHOWN

DRAWING NO. 17 of 21



COLLECTION HEADER, SUMP, AND RISER PLAN
SCALE: 1" = 20'

RECORD DRAWING
DATE: APRIL 8, 2011

LEACHATE MANIFOLD /HEADER PHASE 3 AREA DETAIL
SCALE: 1" = 4'

G. MICHAEL STOUP
HT/DcR Engineering, Inc.
5912-A Breckenridge Pkwy.
Tampa, FL. 33610
Phone: 813.418.3340
P.E. Number 65702

REV	DATE	DESCRIPTION	BY
	4/5/11	REVISED FOR THE RECORD	TTR
	6/22/10	CONFORMED	DHB
	4/11/10	ISSUED FOR BID	SGO

DRAWING TITLE: **LEACHATE ELECTRICAL SYSTEM EQUIPMENT LOCATION**

PROJECT TITLE: **CENTRAL LANDFILL PHASE 3 EXPANSION PROJECT CONSTRUCTION DRAWINGS**

CLIENT: **CITRUS COUNTY SOLID WASTE MANAGEMENT DIVISION CITRUS COUNTY, FLORIDA**

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS
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FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09207049.06 | DWN. BY: AV | Q/A RVW BY: –
DSN. BY: SGO | CHK. BY: SGO | APP. BY: –

CADD FILE: HT/DCR E18
DATE: APRIL 2010
SCALE: AS SHOWN
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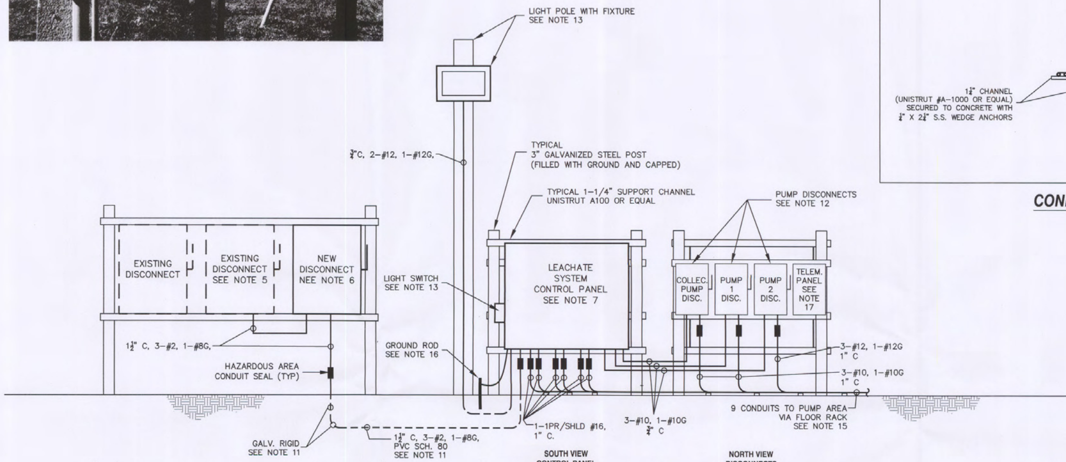
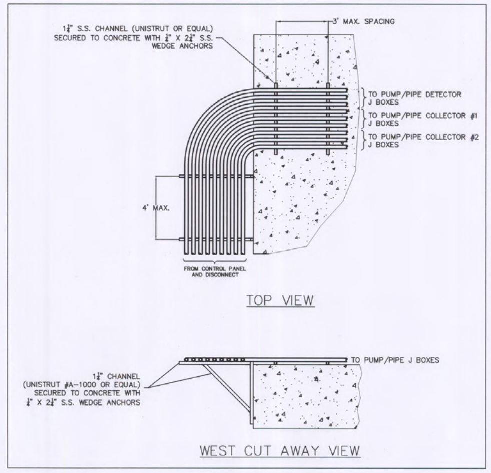


EXISTING SERVICE

CONTROL PANEL & MOTOR DISCONNECTS

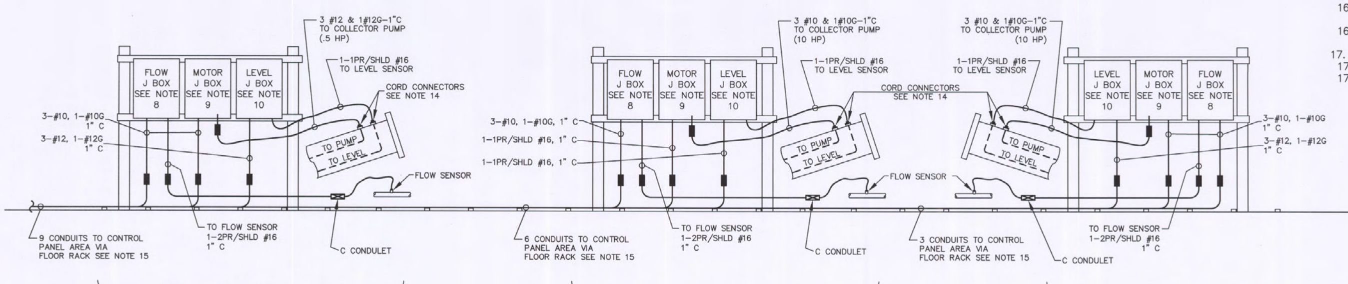


CONDUIT RACK DETAILS

NOT TO SCALE

NOTES:

1. ELECTRICAL CONTRACTOR TO BE AWARE OF METHANE GAS HAZARD DURING CONSTRUCTION AND TAKE SUITABLE PRECAUTIONS.
2. ALL ELECTRICAL EQUIPMENT AT PUMPS ARE TO BE EXPLOSION PROOF AND UL LISTED FOR HAZARDOUS LOCATIONS CLASS 1,GROUP D, DIV 1.
3. E.C. = ELECTRICAL CONTRACTOR
4. FBO = FURNISHED BY OTHERS
5. EXISTING DISCONNECT:
   - 5.1. E.C. SHALL REPLACE THE PRIMARY LUGS WITH A DOUBLE LUG KIT, SQUARE D PART NUMBER CL20F.
   - 5.2. ELECTRICAL CONTRACTOR TO COORDINATE WITH THE POWER COMPANY FOR THE DISCONNECTION AND RECONNECTION OF PRIMARY FEEDERS.
   - 5.3. E.C. SHALL PROVIDE AND INSTALL A LAMICOID NAME PLATE, BLACK WITH WHITE LETTERS, DESCRIPTION "LEACHATE PUMP STATION PHASE 2"
6. NEW DISCONNECT:
   - 6.1. PROVIDED AND INSTALLED BY E.C.
   - 6.2. NEW 100 AMP, 3ϕ, 600 VOLTS, NEMA 4X, S.S. DISCONNECT SHALL BE SQUARE MODEL H363DX.
   - 6.3. FUSES SHALL BE 100 AMPS CLASS "R"
   - 6.4. PROVIDE AND INSTALL A LAMICOID NAME PLATE, BLACK WITH WHITE LETTERS, DESCRIPTION "LEACHATE PUMP STATION PHASE 3"
7. LEACHATE CONTROL PANEL FBO INSTALLATION BY E.C.
8. FLOW J BOX FBO INSTALLATION BY E.C
   - 8.1. REQUIRES 1-2PR. TWISTED SHIELDED CABLE
9. MOTOR J BOX FBO INSTALLATION BY E.C.
10. LEVEL J BOX FBO INSTALLATION BY E.C.
    - 10.1. REQUIRES 1-2PR. TWISTED SHIELDED CABLE (INTRINSICALLY SAFE CIRCUITS).
    - 10.2. INSTALL AND LABEL INTRINSICALLY SAFE CIRCUITS PER NEC ARTICLE 504.
11. CONDUITS;
    - 11.1. ALL UNDER GROUND CONDUITS FROM ELBOW SHALL BE PVC SCH 80.
    - 11.2. CONDUIT STUB-UPS AT PANELS AND JUNCTION BOXES SHALL BE RIGID GALV. STEEL.
    - 11.3. ALL CONDUITS ABOVE GROUND SHALL BE SUPPORTED USING UNISTRUT WITH CLAMPS.
12. PUMP DISCONNECTS 30 AMPS, 3ϕ, 600 VOLTS, NEMA 4X S.S., NON-FUSIBLE, SQUARE D #HU361DS
    - 12.1. E.C. SHALL PROVIDE AND INSTALL A LAMICOID NAME PLATE BLACK WITH WHITE LETTERS ON EACH OF THE DISCONNECT.
13. WOOD POLE WITH LIGHT FIXTURE LIGHT:
    - 13.1. 35' WOOD POLE CATEGORY 1, DIRECT BURIAL, DEPTH PER MANUFACTURER RECOMMENDATIONS.
    - 13.2. LIGHT FIXTURE METAL HALIDE, 250 WATTS, 120 VOLTS, HUBBELL #MVK-025H-268 WITH POLE MOUNTING KIT #4041
    - 13.3. APPROXIMATE FIXTURE MOUNTING HEIGHT 25'.
    - 13.4. LIGHT SWITCH WILL BE PROVIDED WITH CONTROL PANEL E.C. TO WIRE.
14. MOTORS & LEVELS WILL BE FURNISHED AND INSTALLED BY OTHERS.
    - 14.1. MOTOR AND LEVEL WILL BE PROVIDED WITH CABLE, E.C. SHALL PROVIDE "Q2" TYPE "SR" CORD CONNECTORS, DRILL PIPE TO PROPER SIZE, AND INSTALL.
15. CONDUIT SUPPORT RACK;
    - 15.1. E.C. TO DETERMINE BEST ROUTING.
    - 15.2. SEE RACK DETAILS FOR ADDITIONAL INFORMATION
16. GROUND ROD:
    - 16.1. E.C. TO PROVIDE AND INSTALL ONE COPPERCLAD ¾" X 20' GROUND ROD.
    - 16.2. INSTALL A #4 STRANDED BARE COPPER FROM GROUND ROD TO CONTROL PANEL.
17. TELEMETRY PANEL
    - 17.1. FURNISH AND INSTALL BY OTHERS
    - 17.2. E.C. TO ALLOW SUFFICIENT ROOM IN THE RACK



PUMP/PIPE DETECTOR

PUMP/PIPE COLLECTOR #1

PUMP/PIPE COLLECTOR #2

N

LEACHATE MANIFOLD/HEADER AREA

NOT TO SCALE

RECORD DRAWING

DATE: APRIL 8, 2011

ACTUAL FIELD INSTALLATION DIFFERS FROM HT/DcR ENGINEERING DESIGN DOCUMENTS. DIFFERENCES HAVE BEEN REVIEWED BY HT/DcR ENGINEERING AND HAVE BEEN DETERMINED TO NOT SIGNIFICANTLY IMPACT THE ORIGINAL PERMITTED CONCEPT OR DESIGN.

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION APR 07 2011 SOUTHWEST DISTRICT TAMPA

G. MICHAEL STOUP
HT/DcR Engineering, Inc.
5912-a Breckenridge Pkwy.
Tampa, FL 33610
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P.E. Number 65702

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	4/5/11	REVISED FOR THE RECORD	TTR
	6/22/10	CONFORMED	DHB
	4/11/10	ISSUED FOR BID	SGO

DRAWING TITLE: LEACHATE ELECTRICAL SYSTEM RISER DIAGRAM & NOTES

PROJECT TITLE: CENTRAL LANDFILL PHASE 3 EXPANSION PROJECT CONSTRUCTION DRAWINGS

CLIENT: CITRUS COUNTY SOLID WASTE MANAGEMENT DIVISION CITRUS COUNTY, FLORIDA

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS

PROJ. NO. 09207049.06

CADD FILE: HT/DCR E19

DATE: APRIL 2010

SCALE: AS SHOWN

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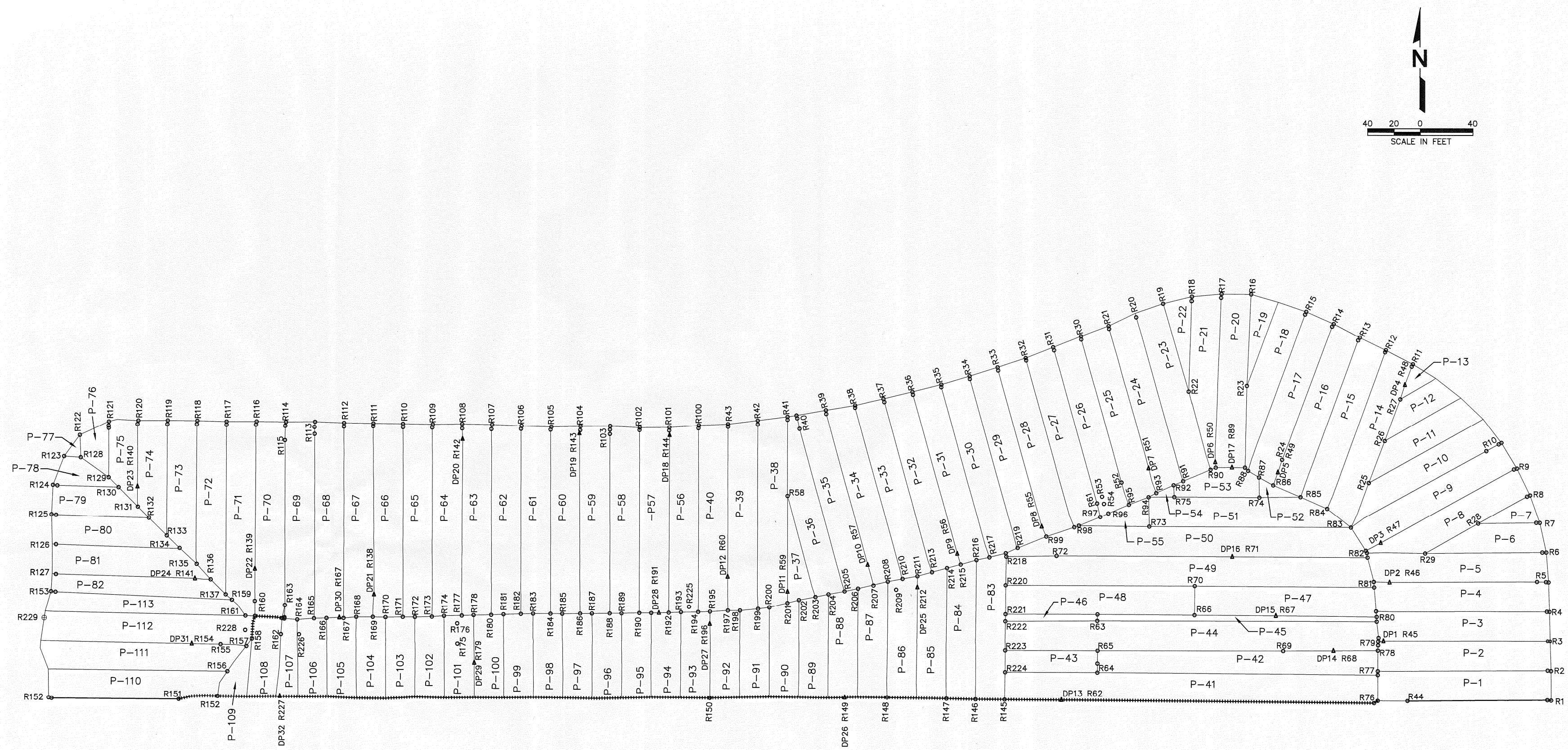

LEGEND

(extrusion weld line)	EXTRUSION WELD
(fusion weld line)	FUSION WELD
P-43	PRIMARY PANEL NUMBER
R59	REPAIR NUMBER
DP13	DESTRUCTIVE SAMPLE NUMBER
o	REPAIR
▲	DESTRUCTIVE SAMPLE
⊕	BOOT AROUND 24" HDPE PIPE

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
APR 07 2011
SOUTHWEST DISTRICT TAMPA

RECORD DRAWING
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DOMINIQUE H. BRAMLETT, P.E.
LICENSE NO. 61829

DRAWING TITLE: **PRIMARY LINER AS-BUILT PANEL LAYOUT**

PROJECT TITLE: **CENTRAL LANDFILL PHASE 3 EXPANSION PROJECT CONSTRUCTION DRAWINGS**

CLIENT: **CITRUS COUNTY SOLID WASTE MANAGEMENT DIVISION CITRUS COUNTY, FLORIDA**

SCS ENGINEERS
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FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09207049.06 | DWN. BY: SPS | Q/A RVW BY: CEH
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DATE: APRIL 2011
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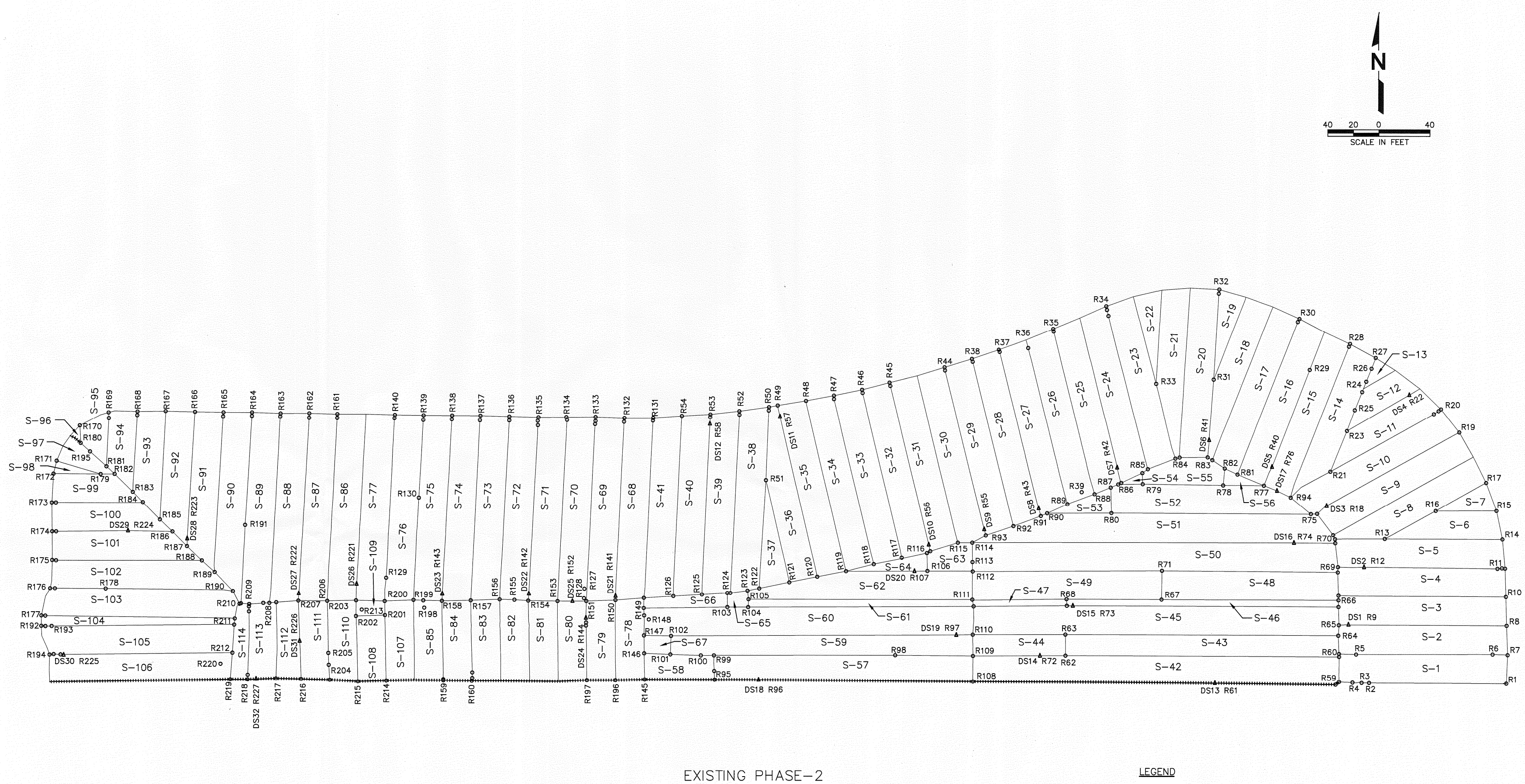
DRAWING NO. **20** of **21**



LEGEND

(heavy line)	EXTRUSION WELD
(thin line)	FUSION WELD
S-43	SECONDARY PANEL NUMBER
R59	REPAIR NUMBER
DS13	DESTRUCTIVE SAMPLE NUMBER
○	REPAIR
▲	DESTRUCTIVE SAMPLE

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
APR 07 2011
SOUTHWEST DISTRICT TAMPA

RECORD DRAWING
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△	4/8/11	DRAWING ADDED FOR THE RECORD	DHB

DOMINIQUE H. BRAMLETT, P.E.
LICENSE NO. 61829

DRAWING TITLE: SECONDARY LINER AS-BUILT PANEL LAYOUT

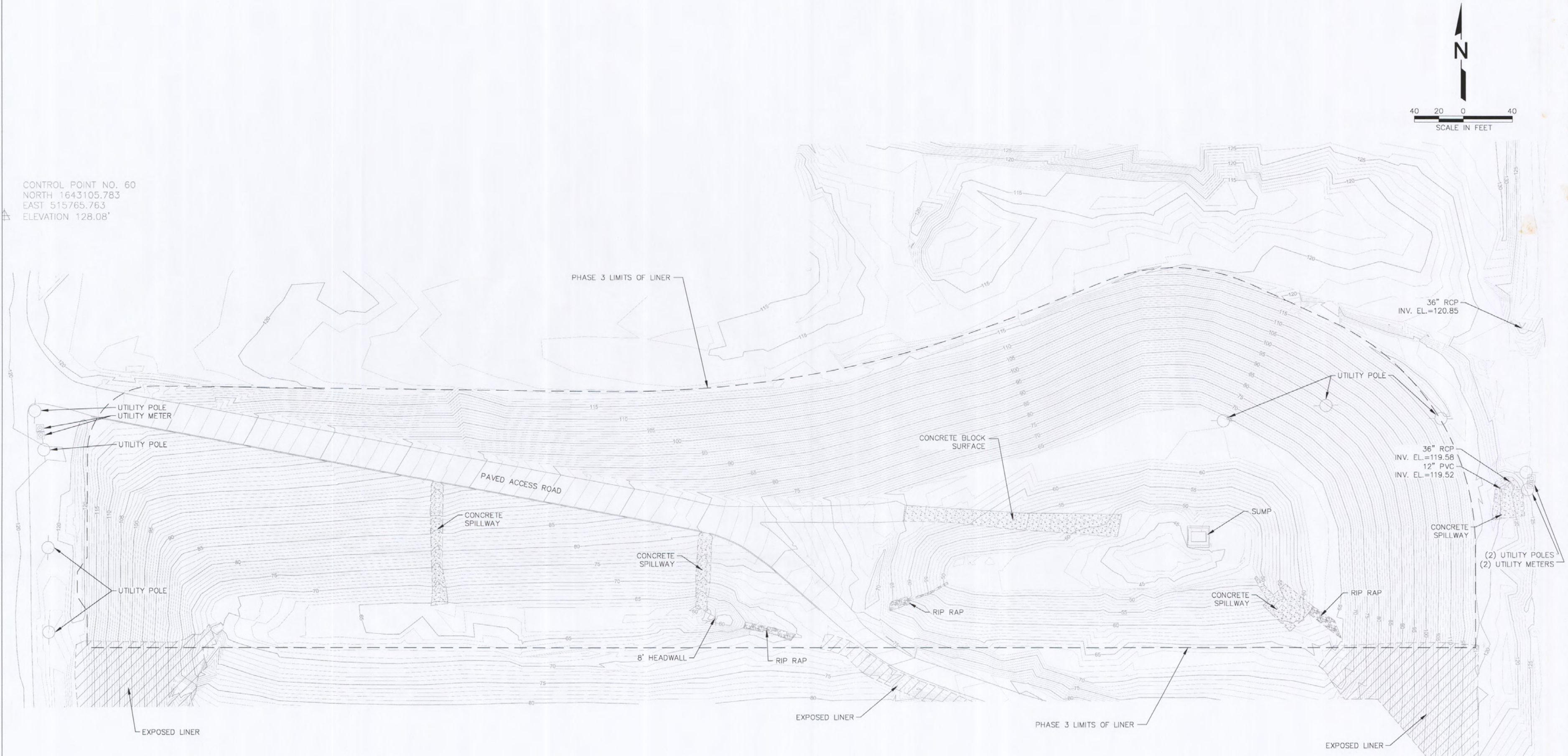
PROJECT TITLE: CENTRAL LANDFILL PHASE 3 EXPANSION PROJECT CONSTRUCTION DRAWINGS

CLIENT: CITRUS COUNTY SOLID WASTE MANAGEMENT DIVISION CITRUS COUNTY, FLORIDA

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
4041 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
813 621-0080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09207049.06 | DWN. BY: SPS | Q/A RVW BY: CEH
DSN. BY: DHB | CHK. BY: CEH | APP. BY: DHB

CADD FILE: 074906SECONDARYLINER
DATE: APRIL 2011
SCALE: AS SHOWN
DRAWING NO. 21 of 21



SURVEY CONTROL POINTS:

CONTROL POINT NO. 60
NORTH 1643105.783
EAST 515765.763
ELEVATION 120.08' (NGVD 29)

CONTROL POINT NO. 13 (CITRUS 13)
NORTH 1643796.219
EAST 513851.261
ELEVATION 96.14' (NGVD 29)

CONTROL POINT NO. 14 (CITRUS 14)
NORTH 1644565.866
EAST 517007.863
ELEVATION 135.93' (NGVD 29)

SURVEYOR'S NOTES:

1. AS-BUILT LOCATIONS BOTH HORIZONTALLY AND VERTICALLY ARE BASED ON SITE PLAN CONTROL POINTS. AS SHOWN ON THE CONSTRUCTION DRAWINGS OF CITRUS COUNTY CENTRAL LANDFILL PHASE 3 EXPANSION PROJECT.
2. THIS DOCUMENT IS NOT INTENDED TO REPRESENT A BOUNDARY SURVEY.
3. THIS DOCUMENT MEETS COMMERCIAL/HIGH RISK LINEAR: 1:10,000.

LEGEND

RIP-RAP

CONCRETE SURFACE

EXPOSED LINER

CERTIFIED TO:
BERGLUND CONSTRUCTION SERVICES, LLC
This survey is not valid without the original signature and raised seal of a Florida licensed Surveyor and Mapper.

SURVEYOR'S CERTIFICATE:
Christopher J. Noyes, PSM
7168 65th Street
Pinellas Park, Fl. 33781

I hereby certify that the survey represented hereon meets the requirements of Chapter 61G17-6, Florida Administrative Code.

Christopher J. Noyes, PSM
Florida Surveyors Registration No. 6381

Last Survey Date: 07/20/10

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
APR 07 2011
SOUTHWEST DISTRICT TAMPA

REV	DATE	DESCRIPTION	BY
1	07/20/10	AS-BUILT INFORMATION	JB

DRAWING TITLE: **EXISTING SITE AS-BUILT PLAN**

PROJECT TITLE: **CENTRAL LANDFILL PHASE 3 EXPANSION PROJECT**

PREPARED FOR: **COMANCO ENVIRONMENTAL CORPORATION PLANT CITY, FLORIDA**

BERGLUND CONSTRUCTION SERVICES, LLC
PINELLAS COUNTY, FLORIDA
P: 727-639-1241 F: 727-475-9979

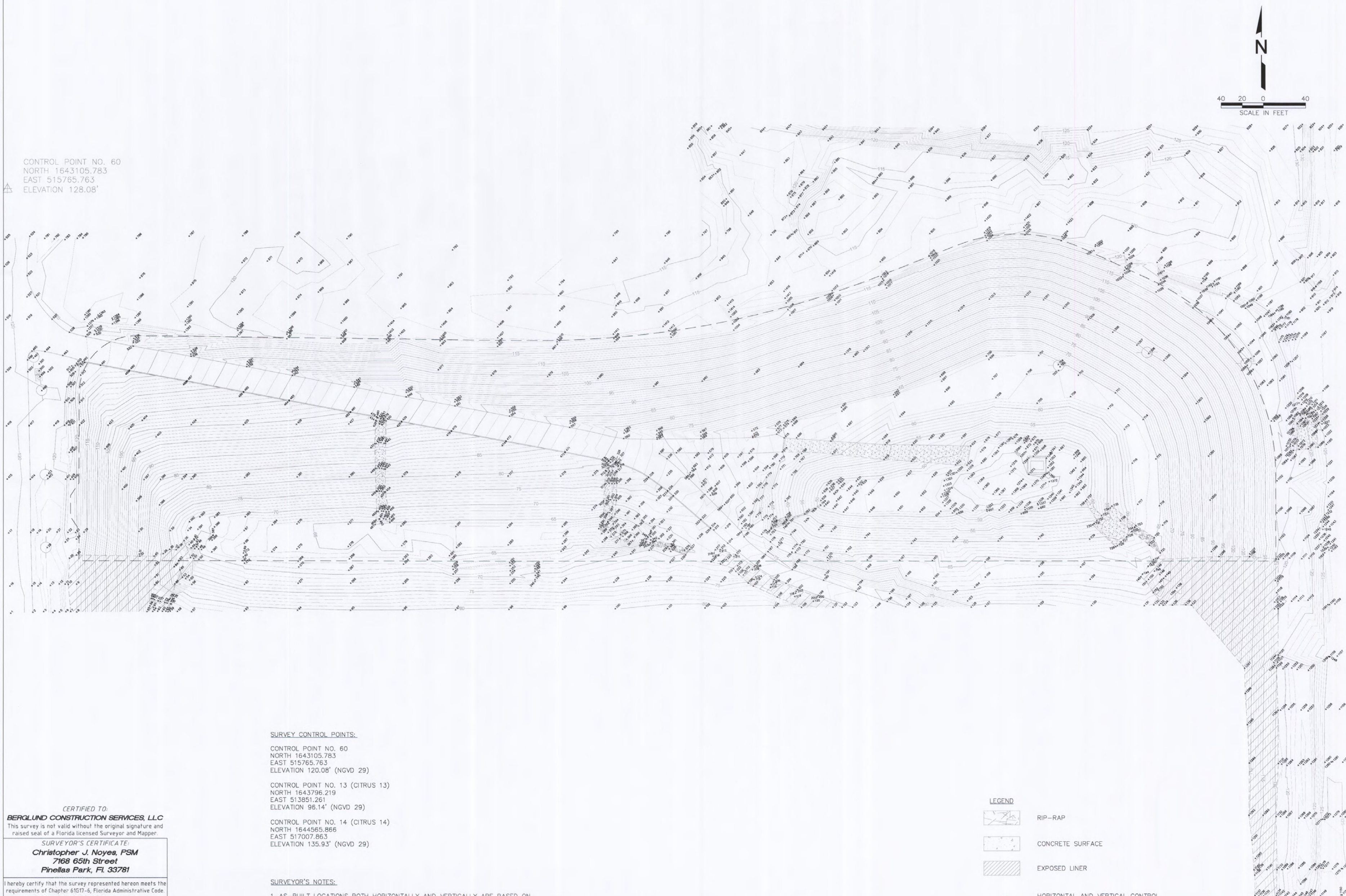
PROJ. NO. 09207049.06	DWN. BY: JB	Q/A RVW BY:
DSN. BY:	CHK. BY: CN	APP. BY:

CADD FILE: ASB_074906EXIST

DATE: JULY 2010

SCALE: AS SHOWN

DRAWING NO. **1** of **3**



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LEGEND

RIP-RAP

CONCRETE SURFACE

EXPOSED LINER

+127 HORIZONTAL AND VERTICAL CONTROL POINT AND IDENTIFICATION NUMBER (SEE DRAWING NO. 3 FOR COORDINATE LOCATIONS AND ELEVATIONS)

CERTIFIED TO:

BERGLUND CONSTRUCTION SERVICES, LLC

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FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
APR 07 2011
SOUTHWEST DISTRICT TAMPA

REV	DATE	DESCRIPTION	BY
1	07/20/10	AS-BUILT INFORMATION	JB

DRAWING TITLE
EXISTING SITE AS-BUILT CONTROL POINT PLAN

PROJECT TITLE
CENTRAL LANDFILL PHASE 3 EXPANSION PROJECT

PREPARED FOR
COMANCO ENVIRONMENTAL CORPORATION PLANT CITY, FLORIDA

BERGLUND CONSTRUCTION SERVICES, LLC
PINELLAS COUNTY, FLORIDA
P: 727-639-1241 F: 727-475-9979

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DSN. BY:	CHK. BY: CN	APP. BY:

CADD FILE: ASB_074906EXIST

DATE: JULY 2010

SCALE: AS SHOWN

DRAWING NO. **2** of **3**

POINT NO.	NOTHING	EASTING	ELEV. (FT.)	POINT NO.	NOTHING	EASTING	ELEV. (FT.)
1	1642707.24	515768.97	120.20	161	1642733.79	516640.34	68.47
2	1642708.13	515790.01	119.88	162	1642725.25	516659.82	70.81
3	1642708.66	515800.19	119.12	163	1642718.99	516673.51	73.22
4	1642707.86	515808.97	115.17	164	1642731.99	516680.22	69.35
5	1642708.40	515815.27	114.98	165	1642757.08	516640.20	66.85
6	1642708.64	515821.33	119.08	166	1642742.75	516615.51	67.76
7	1642708.71	515825.84	119.36	167	1642757.45	516609.35	67.04
8	1642708.41	515831.50	119.03	168	1642757.67	516578.86	67.23
9	1642734.80	515831.47	119.06	169	1642749.30	516577.89	68.20
10	1642734.62	515823.52	119.64	170	1642759.92	516541.11	67.99
11	1642734.85	515820.68	119.30	171	1642757.10	516541.40	68.61
12	1642735.06	515815.05	115.98	172	1642762.36	516519.62	69.66
13	1642733.59	515806.67	115.85	173	1642764.82	516511.05	69.48
14	1642733.09	515794.88	119.52	174	1642768.25	516508.48	69.74
15	1642733.26	515789.13	119.89	175	1642764.79	516507.52	69.45
16	1642732.92	515768.23	120.12	176	1642769.87	516494.10	69.56
17	1642782.53	515767.04	120.10	177	1642773.86	516495.26	69.48
18	1642783.06	515787.91	119.83	178	1642774.56	516487.44	69.70
19	1642782.60	515794.27	119.34	179	1642781.54	516479.10	69.37
20	1642783.38	515803.41	116.88	180	1642786.48	516467.05	69.76
21	1642783.39	515812.91	116.88	181	1642787.37	516464.34	69.43
22	1642783.10	515823.27	121.58	182	1642791.59	516460.19	69.78
23	1642782.85	515830.40	120.78	183	1642787.28	516460.78	69.65
24	1642776.77	515831.24	119.44	184	1642783.75	516459.88	70.18

POINT NO.	NOTHING	EASTING	ELEV. (FT.)	POINT NO.	NOTHING	EASTING	ELEV. (FT.)	POINT NO.	NOTHING	EASTING	ELEV. (FT.)	POINT NO.	NOTHING	EASTING	ELEV. (FT.)
321	1642848.31	516340.52	78.44	481	1642896.74	516091.06	99.49	641	1642806.03	516546.85	48.41	801	1643063.41	516508.95	117.91
322	1642849.29	516336.52	78.77	482	1642896.05	516090.73	99.97	642	1642812.79	516550.02	48.61	802	1643063.06	516523.36	111.67
323	1642847.72	516334.04	79.47	483	1642907.60	516032.71	104.28	643	1642822.92	516551.04	48.19	803	1643063.56	516555.94	113.55
324	1642849.36	516332.96	80.34	484	1642905.96	516032.62	104.78	644	1642822.72	516560.05	48.40	804	1643064.15	516588.72	115.73
325	1642846.51	516333.66	79.23	485	1642915.49	515989.43	107.64	645	1642818.37	516565.59	48.18	805	1643063.98	516638.30	117.68
326	1642849.32	516341.22	79.04	486	1642914.86	515989.29	108.24	646	1642810.97	516562.30	48.25	806	1643088.73	516688.50	118.57
327	1642849.03	516341.23	79.71	487	1642925.59	515935.83	112.07	647	1642802.63	516556.58	48.59	807	1643089.15	516738.20	119.40
328	1642835.28	516372.38	76.62	488	1642924.97	515935.60	112.61	648	1642802.77	516581.07	47.97	808	1643089.43	516788.15	119.69
329	1642834.99	516372.17	77.22	489	1642934.86	515881.00	117.06	649	1642818.90	516580.41	47.93	809	1643089.60	516838.38	118.33
330	1642817.90	516395.86	74.53	490	1642935.59	515881.23	116.33	650	1642817.22	516604.60	47.48	810	1643093.01	516873.97	117.43
331	1642817.28	516395.37	75.04	491	1642940.10	515853.82	118.40	651	1642804.37	516608.07	47.53	811	1643090.38	516888.52	117.79
332	1642795.40	516421.92	72.19	492	1642943.21	515836.71	119.33	652	1642818.11	516629.71	47.00	812	1643090.40	516928.20	119.59
333	1642794.90	516421.21	72.66	493	1642949.31	515818.22	119.27	653	1642802.74	516628.72	47.85	813	1643090.97	516964.92	127.06
334	1642787.63	516430.83	71.27	494	1642952.99	515801.33	119.62	654	1642803.13	516648.20	47.85	814	1643090.55	516983.30	127.84
335	1642786.74	516430.64	71.72	495	1642953.45	515788.91	119.71	655	1642801.70	516659.26	48.78	815	1643090.10	516990.24	130.63
336	1642777.74	516418.88	71.49	496	1642945.05	515784.80	119.80	656	1642800.88	516663.40	49.76	816	1643090.55	517002.52	123.15
337	1642767.33	516411.16	69.88	497	1642946.76	515790.24	119.83	657	1642803.24	516692.02	48.50	817	1643090.60	517007.63	122.05
338	1642762.24	516407.26	70.17	498	1642916.26	515798.28	120.12	658	1642802.37	516712.63	49.08	818	1643090.17	517021.52	123.50
339	1642766.76	516406.27	68.73	499	1642929.48	515796.51	119.69	659	1642800.58	516724.10	51.05	819	1643141.89	517023.66	123.61
340	1642767.96	516391.91	67.80	500	1642934.95	515795.71	119.55	660	1642805.55	516740.51	49.09	820	1643141.76	517021.16	124.55
341	1642772.44	516393.82	67.88	501	1642941.40	515795.80	119.33	661	1642813.36	516761.32	47.34	821	1643141.20	517006.68	122.10
342	1642776.28	516374.46	65.44	502	1642933.98	515804.17	119.43	662	1642816.66	516774.87	47.98	822	1643140.76	517001.18	123.12
343	1642771.67	516372.89	65.80	503	1642933.99	515784.98	119.75	663	1642823.43	516780.80	47.16	823	1643141.15	516997.57	125.83
344	1642773.46	516373.87	65.37	504	1642933.91	515764.49	120.17	664	1642839.89	516780.90	46.52	824	1643140.96	516989.19	131.19
345	1642772.35	516368.72	65.28	505	1642933.78	515824.44	119.48	665	1642849.79	516780.73	46.52	825	1643140.68	516983.97	129.99
346	1642774.40	516369.52	64.87	506	1642934.10	515829.99	122.05	666	1642856.33	516774.09	46.23	826	1643141.52	516960.22	128.59
347	1642777.29	516370.40	65.05	507	1642920.05	515825.94	122.20	667	1642860.73	516760.47	46.10	827	1643140.17	516911.31	123.99
348	1642778.61	516371.84	66.26	508	1642919.93	515822.04	119.93	668	1642860.51	516742.73	46.10	828	1643115.90	516893.62	119.77
349	1642779.41	516371.40	66.23	509	1642905.00	515824.66	122.63	669	1642866.15	516739.67	48.48	829	1643137.26	516879.65	120.12
350	1642779.37	516374.56	67.41	510	1642905.22	515820.11	119.97	670	1642866.05	516736.16	49.82	830	1643135.78	516842.07	117.14
351	1642785.08	516374.63	68.02	511	1642905.24	515834.33	117.90	671	1642859.78	516735.69	47.78	831	1643117.50	516841.73	116.57
352	1642777.65	516382.11	68.04	512	1642919.96	515834.40	118.22	672	1642862.11	516728.59	46.20	832	1643110.36	516792.20	115.49
353	1642791.02	516382.76	70.54	513	1642930.85	515835.10	118.86	673	1642867.50	516727.33	47.08	833	1643122.31	516791.33	115.22
354	1642791.87	516373.49	71.49	514	1642939.00	515834.90	119.30	674	1642869.82	516726.83	49.27	834	1643135.15	516787.18	115.57
355	1642794.79	516366.07	71.20	515	1642941.92	515831.23	119.42	675	1642869.20	516733.39	49.46	835	1643133.68	516761.56	113.92
356	1642807.87	516363.83	72.11	516	1642939.78	515830.12	121.01	676	1642871.38	516716.18	49.38	836	1643132.67	516727.29	113.96

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FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
APR 07 2011
SOUTHWEST DISTRICT TAMPA

REV	DATE	DESCRIPTION	BY
	07/20/10	AS-BUILT INFORMATION	JB

DRAWING TITLE
EXISTING SITE AS-BUILT CONTROL POINT TABLE

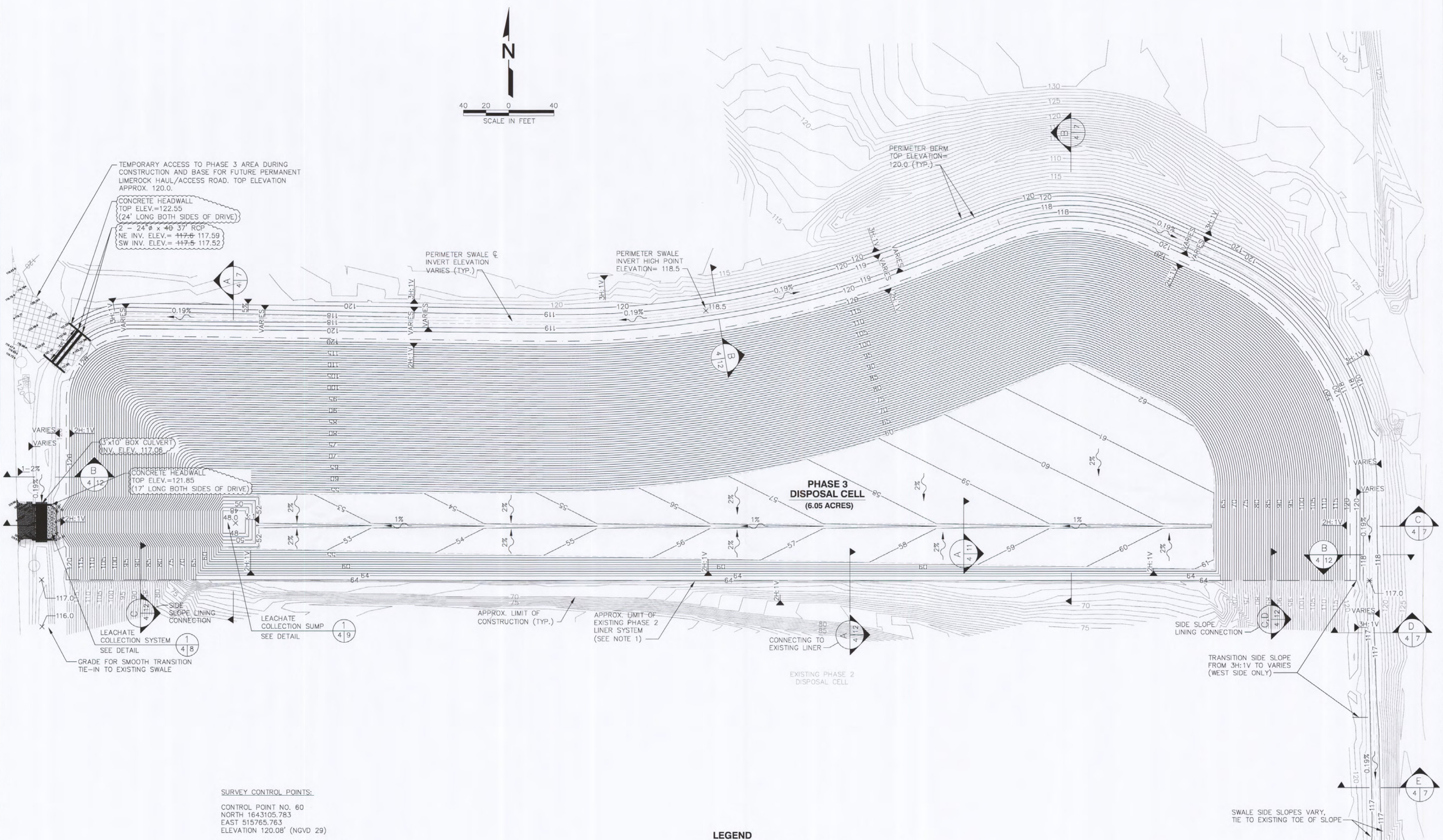
PROJECT TITLE
CENTRAL LANDFILL PHASE 3 EXPANSION PROJECT

PREPARED FOR
COMANCO ENVIRONMENTAL CORPORATION
PLANT CITY, FLORIDA

BERGLUND CONSTRUCTION SERVICES, LLC
PINELLAS COUNTY, FLORIDA

PROJ. NO. 09207049.06 DWN. BY: JB CHK. BY: CN

CADD FILE: ASB_074906EXIST
DATE: JULY 2010
SCALE: AS SHOWN
DRAWING NO.
3 of **3**



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ELEVATION 120.08' (NGVD 29)

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Last Survey Date: 12/21/10

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LEGEND

55	TOP OF SUBGRADE LAYER CONTOUR (5 FOOT INTERVAL)
	TOP OF SUBGRADE LAYER CONTOUR (1 FOOT INTERVAL)
× 116.0	SPOT ELEVATION
90	EXISTING GRADE CONTOUR (5 FOOT INTERVAL) 04/08/09 SURVEY
	EXISTING GRADE CONTOUR (1 FOOT INTERVAL) 04/08/09 SURVEY
	SURFACE WATER FLOW/SLOPE DIRECTION
	APPROXIMATE LIMIT OF EXISTING PHASE 2 DISPOSAL CELL (SEE NOTE 1)
	LIMIT OF PHASE 3 DISPOSAL CELL (AT TOP OF SLOPE)
	PHASE 3 LINER ANCHOR TRENCH TURN-DOWN POINT (OUTSIDE PERIMETER)

NOTES:

1. EXISTING PHASE 2 LINER LIMITS SHOWN ARE APPROXIMATE. CONTRACTOR TO CAREFULLY EXCAVATE EXISTING SOIL AND/OR MUNICIPAL WASTE TO EXPOSE EXISTING PHASE 2 LINER FOR PHASE 3 LINER TIE-IN.
2. TOPOGRAPHIC SURVEY PERFORMED BY PICKETT & ASSOCIATES, INC., 475 SOUTH FIRST AVENUE, BARTOW, FLORIDA, 33830, TEL: (863) 533-9095. SURVEY INFORMATION SHOWN WAS DEVELOPED BY PHOTOGRAMMETRIC METHODS BASED ON AN AERIAL PHOTO DATE OF APRIL 8, 2009.
3. CONTRACTOR SHALL PROVIDE TEMPORARY FACILITIES COMPATIBLE WITH PROPOSED IMPROVEMENTS AND COMPATIBLE WITH COUNTY OPERATIONS, FOR DIVERTING STORM WATER RUNOFF FROM ACTIVE LANDFILL, SO THAT CONSTRUCTION CAN BE ACCOMPLISHED IN ACCORDANCE WITH SPECIFICATIONS. SEE SPECIFICATION SECTION 312000 FOR EXCAVATION PLAN REQUIREMENTS.
4. ALL FINISHED SLOPES GREATER THAN 10% OUTSIDE THE ANCHOR TRENCH LIMIT SHALL BE SODDED. SOD ON SLOPES GREATER THAN 3:1 SHALL BE PINNED. CONTRACTOR SHALL STABILIZE ALL TEMPORARY SLOPES TO MINIMIZE EROSION.

REV	DATE	DESCRIPTION	BY
1	12/21/10	AS-BUILT INFORMATION	JB

DRAWING TITLE
SITE GRADING AND DRAINAGE AS-BUILT PLAN

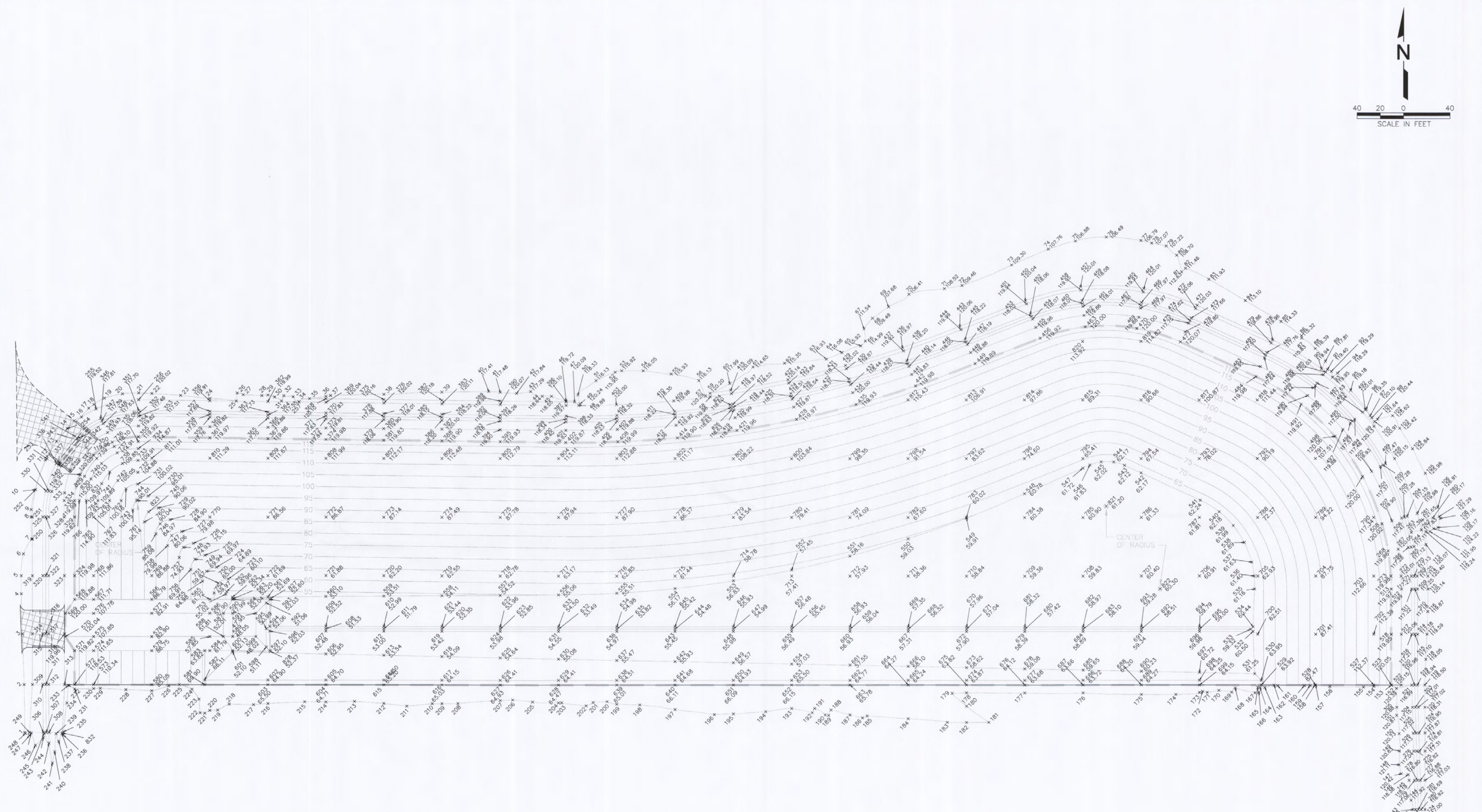
PROJECT TITLE
CENTRAL LANDFILL PHASE 3 EXPANSION PROJECT

PREPARED FOR
COMANCO ENVIRONMENTAL CORPORATION PLANT CITY, FLORIDA

BERGLUND CONSTRUCTION SERVICES, LLC
PINELLAS COUNTY, FLORIDA
P: 727-639-1241 F: 727-475-9979

PROJ. NO. 09207049.06 | DWN. BY: JB | Q/A RVW BY:
DSN. BY: | CHK. BY: CN | APP. BY:

CADD FILE: ASB_074906GRADING
DATE: APRIL 2010
SCALE: AS SHOWN
DRAWING NO. 4



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Last Survey Date: 12/21/10

LEGEND

×127 HORIZONTAL AND VERTICAL CONTROL POINT AND IDENTIFICATION NUMBER (SEE DRAWING NO. 6 FOR COORDINATE LOCATIONS AND ELEVATIONS)

VERTICAL GRADE BREAK/TRANSITION LINE

110 TOP OF SUBGRADE LAYER CONTOUR

LIMIT OF PHASE 3 DISPOSAL CELL (SEE NOTE 2)

NOTES:

1. PERIMETER CONTROL POINTS NUMBERS 1 THROUGH 248 ARE APPROXIMATE LOCATIONS WHERE THE NEW CONSTRUCTION GRADING TIES TO EXISTING GRADE. CONTRACTOR TO MAINTAIN SET DESIGN SLOPES AS SHOWN ON PLANS, THEREFORE ACTUAL HORIZONTAL AND VERTICAL TIE-IN LOCATIONS OF NEW GRADING TO EXISTING GRADE MAY VARY BASED ON EXISTING GRADE CONDITIONS AT THE TIME OF CONSTRUCTION.
2. CONTROL POINTS SHOWN ON OR INSIDE THE LIMIT OF PHASE 3 DISPOSAL CELL BOUNDARY REPRESENT THE TOP OF SUBGRADE LAYER ON WHICH THE LINER SYSTEM IS PLACED (SEE DETAIL B, DRAWING NO. 12).
3. CONTROL POINTS SHOWN ALONG THE PERIMETER SWALE ON THE WEST SIDE OF THE SITE DO NOT REFLECT FINAL FACILITY CONSTRUCTION GRADES SPECIFICALLY IN AREAS OF THE TEMPORARY CONSTRUCTION ACCESS ROAD AND THE ASPHALT DRIVEWAY/BOX CULVERTS.

REV	DATE	DESCRIPTION	BY
1	12/21/10	AS-BUILT INFORMATION	JB

DRAWING TITLE
SITE GRADING CONTROL POINTS AS-BUILT PLAN

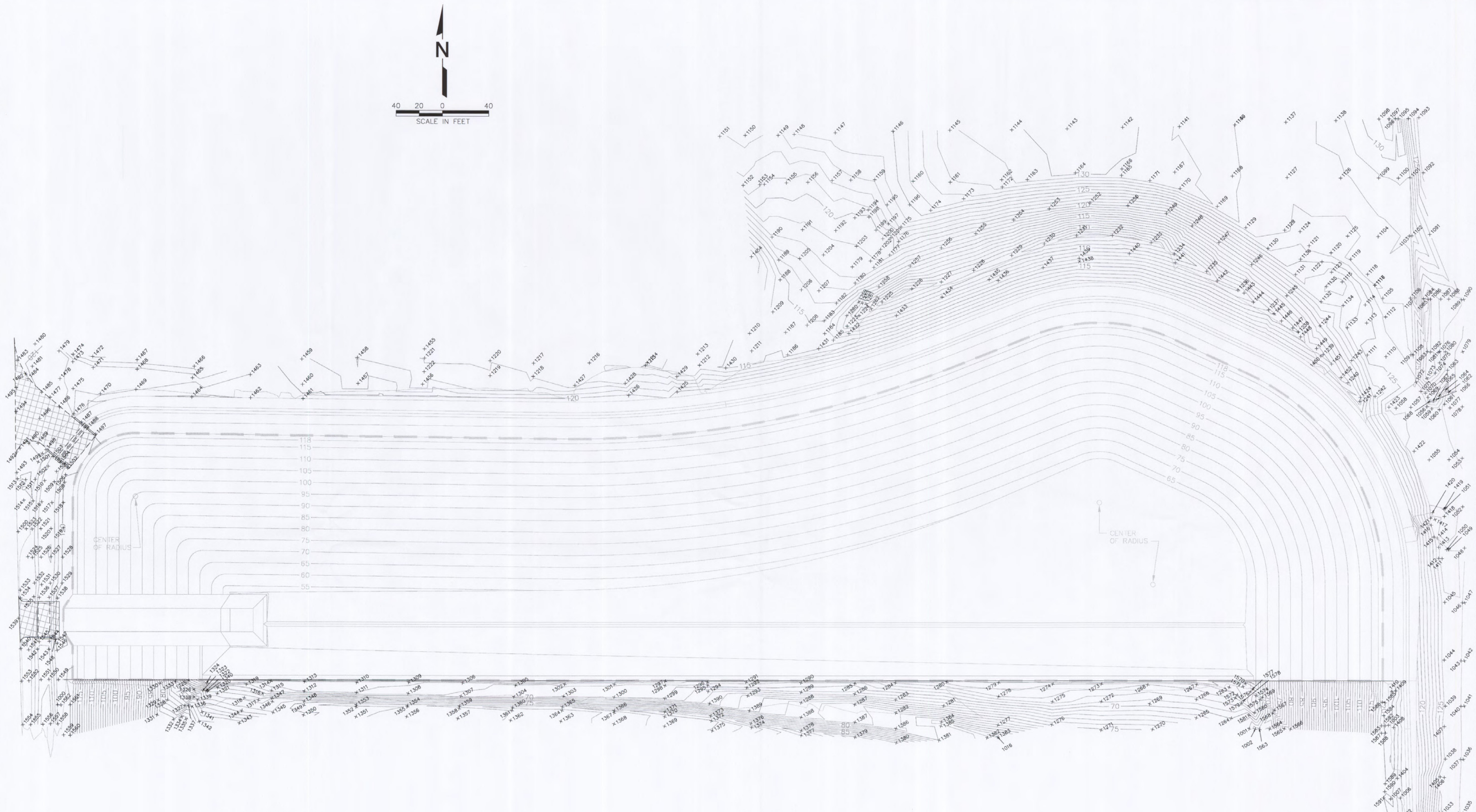
PROJECT TITLE
CENTRAL LANDFILL PHASE 3 EXPANSION PROJECT

PREPARED FOR
COMANCO ENVIRONMENTAL CORPORATION PLANT CITY, FLORIDA

BERGLUND CONSTRUCTION SERVICES, LLC
PINELLAS COUNTY, FLORIDA
P: 727-639-1241 F: 727-475-9979

PROJ. NO. 09207049.06	DWN. BY: JB	Q/A RVW BY:
DSN. BY:	CHK. BY: CN	APP. BY:

CADD FILE: ASB_074906GRAD-CNTRL
DATE: APRIL 2010
SCALE: AS SHOWN
DRAWING NO. **5**



SURVEY CONTROL POINTS:

CONTROL POINT NO. 60
NORTH 1643105.783
EAST 515765.763
ELEVATION 120.08' (NGVD 29)

CONTROL POINT NO. 13 (CITRUS 13)
NORTH 1643796.219
EAST 513851.261
ELEVATION 96.14' (NGVD 29)

CONTROL POINT NO. 14 (CITRUS 14)
NORTH 1644565.866
EAST 517007.863
ELEVATION 135.93' (NGVD 29)

LEGEND

×127	HORIZONTAL AND VERTICAL CONTROL POINT AND IDENTIFICATION NUMBER (SEE DRAWING NO. 6 FOR COORDINATE LOCATIONS AND ELEVATIONS)
	VERTICAL GRADE BREAK/TRANSITION LINE
110	TOP OF SUBGRADE LAYER CONTOUR
	LIMIT OF PHASE 3 DISPOSAL CELL (SEE NOTE 2)

CERTIFIED TO:
BERGLUND CONSTRUCTION SERVICES, LLC
This survey is not valid without the original signature and raised seal of a Florida licensed Surveyor and Mapper.

SURVEYOR'S CERTIFICATE:
Christopher J. Noyes, PSM
7168 65th Street
Pinellas Park, Fl. 33781

I hereby certify that the survey represented hereon meets the requirements of Chapter 61G17-6, Florida Administrative Code.

Christopher J. Noyes, PSM
Florida Surveyors Registration No. 6381

Last Survey Date: 12/21/10

SURVEYOR'S NOTES:

1. AS-BUILT LOCATIONS BOTH HORIZONTALLY AND VERTICALLY ARE BASED ON SITE PLAN CONTROL POINTS, AS SHOWN ON THE CONSTRUCTION DRAWINGS OF CITRUS COUNTY CENTRAL LANDFILL PHASE 3 EXPANSION PROJECT.
2. CLOUDED AREA DENOTES AS-BUILT INFORMATION.
3. THIS DOCUMENT IS NOT INTENDED TO REPRESENT A BOUNDARY SURVEY.
4. THIS DOCUMENT MEETS COMMERCIAL/HIGH RISK LINEAR: 1:10,000.

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
APR 07 2011
SOUTHWEST DISTRICT TAMPA

REV	DATE	DESCRIPTION	BY
1	12/21/10	AS-BUILT INFORMATION	JB

DRAWING TITLE
OFF-SITE GRADING CONTROL POINTS AS-BUILT PLAN

PROJECT TITLE
CENTRAL LANDFILL PHASE 3 EXPANSION PROJECT

PREPARED FOR
COMANCO ENVIRONMENTAL CORPORATION PLANT CITY, FLORIDA

BERGLUND CONSTRUCTION SERVICES, LLC
PINELLAS COUNTY, FLORIDA
P: 727-639-1241 F: 727-475-9979

PROJ. NO. 092007049.06	DWN. BY: JB	Q/A RVW BY:
DSN. BY:	CHK. BY: CN	APP. BY:

CADD FILE: ASB_0749060SGRAD-CNTRL

DATE: APRIL 2010

SCALE: AS SHOWN

DRAWING NO.
5.1

SITE AS-BUILT GRADING TABLE

POINT NO.	NORTHING	EASTING	ELEV. (FT.)	A.B. ELEV. (FT.)
1	1642715.33	515790.65	120.20	.
2	1642756.67	515790.12	120.04	.
3	1642800.00	515788.70	120.15	.
4	1642834.60	515787.72	120.20	.
5	1642850.00	515787.68	120.16	.
6	1642866.57	515786.58	120.18	.
7	1642881.15	515796.72	120.26	.
8	1642900.00	515796.18	120.39	.
9	1642906.39	515798.27	120.42	.
10	1642923.30	515799.82	120.06	.
11	1642948.39	515808.27	120.28	.
12	1642951.42	515809.78	119.73	.
13	1642964.12	515817.92	119.91	.
14	1642975.31	515827.13	119.82	.
15	1642981.64	515833.07	119.57	.
16	1642984.83	515839.48	120.01	.
17	1642992.42	515845.58	121.13	.
18	1642998.65	515850.10	121.41	.
19	1643001.03	515859.10	121.98	.
20	1643004.72	515874.69	122.00	.
21	1643005.47	515888.63	121.94	.
22	1643008.03	515900.00	121.84	.
23	1643003.35	515924.73	121.38	.
24	1643000.93	515950.00	120.67	.
25	1642995.65	515972.75	120.00	.
26	1643008.51	515973.51	120.34	.
27	1643004.13	515978.74	120.28	.
28	1643003.38	515994.73	120.28	.
29	1643003.81	516000.00	120.27	.
30	1643002.19	516005.72	120.20	.
31	1642998.22	516011.68	120.05	.
32	1643003.23	516013.73	120.28	.
33	1643002.53	516021.72	120.22	.
34	1642998.21	516026.87	120.00	.
35	1643000.91	516035.94	120.00	.
36	1643002.84	516060.00	119.30	.
37	1643003.48	516053.97	119.07	.
38	1643004.57	516099.99	118.53	.
39	1643006.50	516150.00	117.89	.
40	1643007.20	516190.03	~~117.30~~	117.41 (T)
41	1643006.47	516200.00	~~117.50~~	117.48 (T)
42	1643005.49	516214.01	~~117.77~~	117.84 (T)
43	1643007.11	516226.03	~~117.18~~	117.29 (T)
44	1643003.17	516235.98	~~118.46~~	118.64 (T)
45	1643003.06	516243.98	~~118.46~~	118.55 (T)
46	1642999.27	516256.55	~~119.66~~	119.72 (T)
47	1642998.24	516263.78	~~120.00~~	120.09 (T)
48	1642995.24	516267.47	~~120.00~~	119.89 (T)
49	1642996.52	516268.50	~~120.43~~	120.24 (T)
50	1643004.23	516266.64	~~120.00~~	118.33 (T)
51	1643016.31	516282.11	~~126.98~~	116.13 (T)
52	1643023.60	516298.61	~~129.25~~	115.95 (T)
53	1643024.86	516304.19	~~129.59~~	115.92 (T)
54	1643024.82	516322.60	~~129.24~~	116.05 (T)
55	1643022.09	516346.70	~~127.68~~	115.93 (T)
56	1643016.52	516370.41	~~124.98~~	116.13 (T)
57	1643003.51	516376.04	~~120.44~~	120.29 (T)
58	1643003.01	516380.18	~~120.00~~	119.96 (T)
59	1643005.72	516380.03	~~120.00~~	120.20 (T)
60	1643013.98	516396.91	~~118.07~~	117.99 (T)
61	1643028.07	516416.81	~~114.53~~	114.65 (T)
62	1643031.28	516443.98	~~115.24~~	115.35 (T)
63	1643034.77	516479.86	~~116.85~~	116.93 (T)
64	1643040.31	516493.17	~~116.21~~	116.08 (T)
65	1643046.08	516509.50	~~115.81~~	115.92 (T)
66	1643050.23	516513.39	~~114.92~~	114.99 (T)
67	1643060.79	516512.20	~~111.44~~	111.54 (T)
68	1643069.78	516519.51	~~109.31~~	109.49 (T)
69	1643079.47	516533.37	~~107.69~~	107.68 (T)
70	1643090.35	516550.90	~~106.23~~	106.41 (T)
71	1643095.18	516581.21	~~108.37~~	108.52 (T)
72	1643097.87	516596.38	~~109.39~~	109.46 (T)
73	1643115.34	516638.96	~~109.16~~	109.20 (T)
74	1643128.94	516670.62	~~107.92~~	107.76 (T)
75	1643135.83	516693.87	~~106.95~~	106.88 (T)
76	1643139.16	516720.29	~~106.34~~	106.49 (T)
77	1643136.30	516750.00	~~106.11~~	106.16 (T)
78	1643134.04	516759.31	~~106.90~~	107.07 (T)
79	1643131.70	516771.84	~~106.82~~	107.22 (T)
80	1643123.79	516780.90	~~108.62~~	108.70 (T)
81	1643109.51	516784.95	~~112.76~~	112.63 (T)
82	1643112.63	516788.35	~~111.44~~	111.46 (T)
83	1643103.32	516808.50	~~111.85~~	111.93 (T)
84	1643085.19	516839.80	~~113.00~~	113.10 (T)
85	1643067.21	516870.52	~~114.20~~	114.33 (T)
86	1643055.01	516888.26	~~115.13~~	115.32 (T)
87	1643052.99	516888.33	~~115.71~~	115.83 (T)
88	1643043.92	516900.00	~~116.26~~	116.39 (T)
89	1643032.76	516908.74	~~117.65~~	117.81 (T)
90	1643026.64	516905.47	~~120.06~~	119.94 (T)
91	1643025.96	516910.63	~~120.92~~	119.90 (T)
92	1643024.32	516913.87	~~121.16~~	119.29 (T)
93	1643019.35	516915.02	~~119.89~~	119.95 (T)
94	1643022.75	516919.16	~~118.14~~	118.29 (T)
95	1643008.05	516930.55	~~119.24~~	119.19 (T)
96	1642992.12	516943.87	~~119.65~~	119.35 (T)
97	1642986.45	516947.24	~~120.00~~	120.10 (T)
98	1642984.71	516948.64	~~120.00~~	120.44 (T)
99	1642977.38	516950.52	~~120.00~~	120.13 (T)
100	1642981.64	516951.10	~~121.00~~	120.91 (T)
101	1642983.49	516953.50	~~122.00~~	121.64 (T)
102	1642986.53	516966.55	~~126.11~~	125.62 (T)
103	1642975.75	516972.66	~~125.72~~	125.42 (T)
104	1642958.38	516983.65	~~125.86~~	125.84 (T)
105	1642937.38	516994.58	~~126.06~~	125.98 (T)
106	1642908.47	517005.18	~~126.13~~	126.91 (T)
107	1642900.75	517006.47	~~125.87~~	127.29 (T)
108	1642899.05	517007.32	~~126.00~~	127.16 (T)
109	1642891.38	517005.29	~~126.00~~	126.17 (T)
110	1642890.42	517001.52	~~124.00~~	124.22 (T)
111	1642888.00	516998.51	~~122.00~~	121.95 (T)
112	1642887.81	516995.10	~~120.00~~	119.24 (T)
113	1642876.94	516994.97	~~118.79~~	120.07 (T)
114	1642850.00	516996.62	~~118.98~~	120.40 (T)
115	1642838.95	516996.68	~~119.01~~	120.14 (T)
116	1642819.59	516996.47	~~118.95~~	119.87 (T)
117	1642800.00	516995.81	~~118.73~~	119.59 (T)
118	1642778.52	516994.82	~~118.43~~	119.05 (T)
119	1642756.64	516994.03	~~118.28~~	118.50 (T)
120	1642737.50	516994.01	~~118.18~~	118.31 (T)
121	1642715.53	516994.05	~~117.81~~	117.87 (T)
122	1642700.00	516994.08	~~117.54~~	117.31 (T)
123	1642675.00	516993.92	~~117.59~~	117.03 (T)
124	1642650.00	516993.91	~~117.40~~	117.00 (T)
125	1642625.00	516995.10	~~117.18~~	116.53 (T)
126	1642600.00	516996.10	~~117.35~~	116.70 (T)
127	1642589.00	516996.48	~~117.43~~	116.89 (T)
128	1642575.00	516996.66	~~117.46~~	117.10 (T)
129	1642550.00	516996.87	~~117.46~~	117.31 (T)
130	1642525.00	516996.94	~~117.39~~	117.37 (T)
131	1642504.56	516997.01	~~117.35~~	117.42 (T)
132	1642488.96	516995.36	116.63	.
133	1642492.91	516990.24	~~116.64~~	116.48 (T)
134	1642508.96	516986.61	~~116.87~~	116.86 (T)
135	1642525.00	516986.11	~~117.05~~	117.03 (T)
136	1642550.00	516986.12	~~117.20~~	117.00 (T)
137	1642575.00	516986.01	~~117.18~~	117.02 (T)
138	1642600.00	516985.56	~~117.15~~	117.05 (T)
139	1642625.00	516985.12	~~117.18~~	117.13 (T)
140	1642635.98	516984.89	~~117.25~~	117.07 (T)
141	1642636.93	516983.47	~~117.71~~	117.55 (T)
142	1642642.95	516984.11	~~117.45~~	117.45 (T)
143	1642650.00	516983.64	~~117.55~~	117.45 (T)
144	1642657.90	516982.01	~~118.03~~	117.92 (T)
145	1642675.00	516980.33	~~118.45~~	118.19 (T)
146	1642679.84	516979.56	~~118.67~~	118.38 (T)
147	1642680.66	516973.46	~~120.70~~	120.42 (T)
148	1642688.31	516971.74	~~121.21~~	121.11 (T)
149	1642700.00	516972.12	~~120.99~~	120.83 (T)
150	1642714.89	516971.80	~~120.97~~	120.73 (T)
151	1642730.58	516969.70	~~121.54~~	120.87 (T)
152	1642753.79	516969.52	~~121.41~~	120.39 (T)
153	1642756.41	516965.10	119.90	.
154	1642755.45	516950.00	113.04	.
155	1642754.81	516941.17	108.94	.
156	1642755.26	516912.17	94.21	.
201	1642741.67	516279.67	71.47	.
202	1642738.76	516273.67	72.93	.
203	1642741.45	516252.67	71.58	.
204	1642741.41	516250.00	71.61	.
205	1642742.14	516227.67	71.24	.
206	1642743.94	516210.67	70.34	.
207	1642743.39	516200.00	70.62	.
208	1642740.71	516163.67	71.95	.
209	1642740.56	516150.00	72.03	.
210	1642740.52	516141.67	72.05	.
211	1642738.37	516119.67	73.12	.
212	1642740.73	516100.00	71.95	.
213	1642742.37	516074.67	71.12	.
214	1642741.87	516050.00	71.37	.
215	1642742.05	516031.67	71.28	.
216	1642740.48	516000.00	72.07	.
217	1642739.47	515987.67	72.57	.
218	1642739.91	515966.67	72.36	.
219	1642734.79	515956.67	74.91	.
220	1642734.54	515950.00	75.04	.
221	1642732.03	515945.67	76.29	.
222	1642732.41	515941.67	78.10	.
223	1642744.17	515940.67	72.72	.
224	1642752.63	515934.67	71.49	.
225	1642756.61	515923.67	75.00	.
226	1642755.59	515914.67	78.99	.
227	1642751.40	515900.00	84.23	.
228	1642752.32	515877.67	95.85	.
229	1642753.46	515855.67	107.42	.
230	1642753.28	515850.00	110.17	.
231	1642752.91	515833.67	118.15	.
232	1642756.01	515829.17	119.70	.
233	1642755.97	515828.26	119.68	.
234	1642740.89	515827.06	119.65	.
235	1642716.00	515824.08	119.72	.
236	1642713.42	515824.00	119.70	.
237	1642714.46	515822.71	119.71	.
238	1642707.90	515819.91	119.55	.
239	1642714.40	515817.70	118.08	.
240	1642698.93	515816.51	116.18	.
241	1642689.39	515814.59	114.73	.
242	1642706.24	515811.59	115.07	.
243	1642714.67	515807.25	115.92	.
244	1642711.04	515806.79	116.44	.
245	1642704.48	515799.86	119.43	.
246	1642715.13	515796.25	119.48	.
247	1642712.79	515794.77	119.74	.
248	1642714.50	515791.25	120.08	.
249	1642715.36	515794.75	120.00	.
250	1642881.15	515797.31	120.00	.
251	1642900.00	515797.31	120.00	.
252	1642923.28	515800.00	120.00	.
253	1642949.27	515809.65	120.00	.
254	1642974.94	515827.50	119.99	.
255	1642991.85	515851.96	~~120.02~~	119.52 (T)
256	1642999.65	515888.60	~~120.00~~	120.02
301	1642492.99	516992.74	~~116.64~~	116.57
302	1642737.50	516988.25	~~116.97~~	117.02
303	1642737.50	516985.75	~~116.97~~	117.01
304	1642737.50	516983.24	~~116.97~~	117.15
305	1642737.50	516969.79	~~121.46~~	120.88 (T)
306	1642715.49	515806.74	116.00	.
307	1642715.52	515809.24	116.00	.
308	1642715.54	515811.74	116.00	.
309	1642756.67	515797.31	120.00	.
310	1642756.72	515806.31	117.00	.
311	1642756.73	515808.81	117.00	.
312	1642756.75	515811.31	117.00	.
313	1642756.62	515825.07	120.00	.
314	1642800.00	515797.31	120.00	.
315	1642800.00	515806.31	117.08	.
316	1642800.00	515808.81	117.08	.
317	1642800.00	515811.31	117.08	.
318	1642800.00	515824.98	~~120.00~~	119.96
319	1642850.00	515797.31	120.00	.
320	1642850.00	515806.31	117.18	.
321	1642850.00	515808.81	117.18	.
322	1642850.00	515811.31	117.18	.
323	1642850.00	515824.87	120.00	.
324	1642850.00	515833.67	~~120.00~~	119.98
325	1642900.00	515806.31	117.27	.
326	1642900.00	515808.81	117.27	.
327	1642900.00	515811.31	117.27	.
328	1642900.00	515824.75	120.00	.
329	1642900.00	515833.67	~~120.00~~	119.82
330	1642922.33	515809.03	117.31	.
331	1642922.06	515811.53	117.32	.
332	1642921.80	515814.04	117.32	.
333	1642920.64	515825.06	120.00	.
334	1642914.05	515824.72	120.00	.
335	1642914.05	515833.67	~~120.00~~	119.99
336	1642945.43	515817.79	117.36	.
337	1642944.36	515820.05	117.36	.
338	1642943.32	515822.32	117.36	.
339	1642939.79	515830.16	120.00	.
340	1642936.09	515838.37	~~120.00~~	119.92
341	1642968.53	515833.83	117.41	.
342	1642966.75	515835.59	117.41	.
343	1642964.98	515837.34	117.41	.
344	1642958.92	515843.33	120.00	.
345	1642952.46	515849.71	~~120.00~~	120.05
346	1642983.75	515855.91	~~117.46~~	117.61
347	1642981.51	515857.01	~~117.46~~	117.59
348	1642979.26	515858.11	~~117.46~~	117.63
349	1642971.67	515861.81	~~120.00~~	119.93
350	1642963.44	515865.83	~~120.00~~	119.96
351	1642990.65	515888.58	~~117.53~~	117.70
352	1642988.15	515888.55	~~117.53~~	117.46
353	1642985.65	515888.52	~~117.53~~	117.51
354	1642977.29	515888.42	~~120.00~~	119.82
355	1642968.05	515888.31	~~120.00~~	119.92
356	1642998.92	515950.00	~~120.00~~	119.91
401	1642974.10	516256.24	~~120.00~~	119.83
402	1642963.70	516256.12	~~120.00~~	119.87
403	1642995.86	516299.67	~~119.99~~	120.00
404	1642986.87	516300.01	~~118.31~~	118.32
405	1642984.37	516300.11	~~118.31~~	118.23
406	1642981.87	516300.20	~~118.31~~	118.46
407	1642974.86	516300.47	~~120.00~~	119.88
408	1642964.29	516300.87	~~119.97~~	119.99
409	1642999.15	516348.89	~~119.97~~	119.98
410	1642990.19	516349.75	~~118.41~~	118.35
411	1642987.70	516349.99	~~118.41~~	118.22
412	1642985.21	516350.23	~~118.41~~	118.36
413	1642978.43	516350.87	~~120.00~~	119.92
414	1642967.69	516351.90	~~119.90~~	119.90
415	1643008.27	516397.79	~~120.00~~	120.09
416	1643005.30	516398.25	~~119.96~~	119.97
417	1642996.41	516399.62	~~118.50~~	118.52
418	1642993.94	516400.00	~~118.50~~	118.44
419	1642991.46	516400.38	~~118.50~~	118.49
420	1642984.92	516401.39	~~120.00~~	119.99
421	1642974.07	516403.06	~~119.88~~	119.96
422	1643017.30	516446.97	~~120.00~~	120.14
423	1643014.37	516447.59	~~119.96~~	119.84
424	1643005.57	516449.48	~~118.40~~	118.51
425	1643003.13	516450.00	~~118.40~~	118.51
426	1643000.68	516450.52	~~118.40~~	118.54
427	1642994.00	516451.95	~~120.00~~	119.87
428	1642983.47	516454.21	~~119.90~~	119.97
429	1643029.36	516496.19	~~120.00~~	120.02
430	1643026.47	516496.99	~~119.98~~	119.87
431	1643017.80	516499.39	~~118.31~~	118.33
432	1643015.39	516500.06	~~118.31~~	118.31
433	1643012.98	516500.72	~~118.31~~	118.44
434	1643006.20	516502.60	~~120.00~~	120.00
435	1642996.01	516505.41	~~119.98~~	119.93
436	1643044.53	516545.31	~~120.00~~	119.97
437	1643041.69	516546.28	~~119.98~~	119.92
438	1643033.18	516549.19	~~118.21~~	118.20
439	1643030.81	516550.00	~~118.21~~	118.07
440	1643028.44	516550.81	~~118.21~~	118.14
441	1643021.60	516553.15	~~120.00~~	119.83
442	1643011.79	516556.50	~~119.91~~	119.98
443	1643062.92	516594.48	~~120.00~~	120.06
444	1643060.14	516595.62	~~120.00~~	119.99
445	1643051.82	516599.05	~~118.11~~	118.22
446	1643049.50	516600.00	~~118.11~~	118.05
447	1643047.19	516600.95	~~118.11~~	118.19
448	1643040.33	516603.77	~~120.00~~	119.88
449	1643030.91	516607.65	~~120.00~~	119.89
450	1643085.09	516650.86	~~120.00~~	120.04
451	1643082.29	516651.96	~~120.00~~	119.94
452	1643073.92	516655.25	~~118.00~~	118.06
453	1643071.59	516656.17	~~118.00~~	118.02
454	1643069.27	516657.08	~~118.00~~	118.07
455	1643062.18	516659.87	~~120.00~~	119.96
456	1643052.89	516663.52	~~120.00~~	119.92
501	1642943.18	516955.97	~~117.35~~	117.37
502	1642939.05	516948.44	~~120.00~~	119.93
503	1642934.71	516940.54	~~120.00~~	120.00
504	1642900.82	516978.88	~~117.27~~	117.15
505	1642900.13	516976.48	~~117.27~~	117.28
506	1642899.43	516974.08	~~117.27~~	117.41
507	1642897.00	516965.73	~~120.00~~	119.90
508	1642894.51	516957.18	~~120.00~~	120.02
509	1642838.95	516987.70	~~117.15~~	117.25
510	1642838.95	516985.20	~~117.15~~	117.18
511	1642838.94	516982.70	~~117.15~~	117.22
512	1642838.96	516973.86	~~120.00~~	119.99
513	1642838.95	516965.10	~~120.00~~	119.97
514	1642800.00	516987.70	~~117.08~~	117.18
515	1642800.00	516985.20	~~117.08~~	117.10
516	1642800.00	516982.70	~~117.08~~	117.21
517	1642800.00	516973.78	~~120.00~~	120.06
518	1642800.00	516965.10	~~120.00~~	119.95
519	1642756.65	516987.70	~~117.00~~	116.94
520	1642756.62	516985.20	~~117.00~~	116.98
521	1642756.58	516982.70	~~117.00~~	116.99
522	1642756.62	516973.70	~~120.00~~	120.15
523	1642756.62	516965.10	~~120.00~~	120.05
524	1642715.38	516988.88	~~116.94~~	116.95
525	1642715.31	516986.38	~~116.94~~	117.02
526	1642715.24	516983.88	~~116.94~~	117.13
527	1642756.62	516950.00	~~112.45~~	112.37
528	1642756.62	516900.00	~~87.45~~	87.47
529	1642756.62	516853.10	~~64.00~~	63.92
530	1642760.62	516853.10	~~64.00~~	63.95
531	1642766.26	516847.46	~~61.18~~	61.25
532	1642802.39	516845.98	~~60.44~~	60.50
533	1642804.39	516843.94	~~59.42~~	59.32
534	1642806.39	516845.98	~~60.44~~	60.44
535	1642838.94	516847.31	~~61.11~~	61.16
536	1642850.00	516846.99	~~61.33~~	61.40
537	1642861.87	516844.91	~~61.54~~	61.63
538	1642878.71	516838.53	~~61.81~~	61.89
539	1642893.14	516828.99	~~62.01~~	61.99
540	1642904.81	516817.00	~~62.12~~	62.18
541	1642914.71	516800.75	~~62.16~~	62.24
542	1642937.83	516750.00	~~62.11~~	62.17
543	1642944.31	516735.77	~~62.10~~	62.12
544	1642947.12	516726.48	~~62.06~~	62.17
545	1642947.23	516715.55	~~61.96~~	62.02
546	1642944.58	516706.12	~~61.81~~	61.83
547	1642941.93	516700.00	~~61.69~~	61.72
548	1642920.26	516650.00	~~60.76~~	60.78
549	1642899.53	516600.00	~~59.85~~	59.91
550	1642881.83	516550.00	~~58.99~~	59.03
551	1642867.07	516500.00	~~58.20~~	58.16
552	1642855.14	516450.00	~~57.46~~	57.45
553	1642845.91	516400.00	~~56.77~~	56.83
554	1642839.31	516350.00	~~56.14~~	56.17
555	1642835.30	516300.00	~~55.56~~	55.51
556	1642833.83	516250.00	~~55.03~~	55.06
601	1642784.62	515969.60	~~52.03~~	52.10
602	1642760.62	516000.00	~~64.00~~	64.90 (T)
603	1642756.62	516000.00	~~64.00~~	65.50 (T)
604	1642756.62	516050.00	~~64.00~~	64.71 (T)
605	1642760.62	516050.00	~~64.00~~	64.70 (T)
606	1642782.87	516050.00	~~52.87~~	52.95
607	1642802.39	516050.00	~~52.48~~	52.48
608	1642804.39	516050.00	~~51.48~~	51.53
609	1642806.39	516050.00	~~52.48~~	52.52
610	1642806.39	516100.00	~~52.98~~	52.99
611	1642804.39	516100.00	~~51.98~~	51.79
612	1642802.39	516100.00	~~52.98~~	53.00
613	1642781.83	516100.00	~~53.39~~	53.54
614	1642760.62	516100.00	~~64.00~~	64.50 (T)
615	1642756.62	516100.00	~~64.00~~	65.20 (T)
616	1642756.62	516150.00	~~64.00~~	65.03 (T)
617	1642760.62	516150.00	~~64.00~~	64.15 (T)
618	1642780.79	516150.00	~~53.92~~	54.09
619	1642802.39	516150.00	~~53.48~~	53.42
620	1642804.39	516150.00	~~52.48~~	52.35
621	1642806.39	516150.00	~~53.48~~	53.44
622	1642806.39	516200.00	~~53.98~~	53.96
623	1642804.39	516200.00	~~52.98~~	52.85
624	1642802.39	516200.00	~~53.98~~	53.98
625	1642779.74	516200.00	~~54.44~~	54.61
626	1642760.62	516200.00	~~64.00~~	64.41 (T)
627	1642756.62	516200.00	~~64.00~~	64.93 (T)
628	1642756.62	516250.00	~~64.00~~	64.47 (T)
629	1642760.62	516250.00	~~64.00~~	64.41 (T)
630	1642778.70	516250.00	~~54.96~~	55.08
631	1642802.39	516250.00	~~54.48~~	54.55
632	1642804.39	516250.00	~~53.48~~	53.49
633	1642806.39	516250.00	~~54.48~~	54.50
634	1642806.39	516300.00	~~54.98~~	54.98
635	1642804.39	516300.00	~~53.98~~	53.82
636	1642802.39	516300.00	~~54.98~~	54.97
637	1642777.66	516300.00	~~55.48~~	55.47
638	1642760.62	516300.00	~~64.00~~	64.51 (T)
639	1642756.62	516300.00	~~64.00~~	65.01 (T)
640	1642756.62	516350.00	~~64.00~~	66.11 (T)
641	1642760.62	516350.00	~~64.00~~	64.68 (T)
642	1642776.62	516350.00	~~56.00~~	55.93
643	1642802.39	516350.00	~~55.48~~	55.45
644	1642804.39	516350.00	~~54.48~~	54.48
645	1642806.39	516350.00	~~55.48~~	55.42
646	1642806.39	516400.00	~~55.98~~	55.93
647	1642804.39	516400.00	~~54.98~~	54.99
648	1642802.39	516400.00	~~55.98~~	55.98
649	1642775.58	516400.00	~~56.52~~	56.57
650	1642760.62	516400.00	~~64.00~~	64.93 (T)
651	1642756.62	516400.00	~~64.00~~	66.09 (T)
652	1642756.62	516450.00	~~64.00~~	66.15 (T)
653	1642760.62	516450.00	~~64.00~~	65.60 (T)
654	1642774.54	516450.00	~~57.04~~	57.03
655	1642802.39	516450.00	~~56.48~~	56.49
656	1642804.39	516450.00	~~55.48~~	55.45
701	1642800.00	516900.00	~~87.45~~	87.41
702	1642800.00	516950.00	~~112.45~~	112.39
703	1642850.00	516950.00	~~112.70~~	112.66
704	1642850.00	516900.00	~~87.74~~	87.75
705	1642850.00	516850.00	~~62.84~~	62.93
706	1642850.00	516800.00	~~60.86~~	60.91
707	1642850.00	516750.00	~~60.36~~	60.40
708	1642850.00	516700.00	~~59.86~~	59.83
709	1642850.00	516650.00	~~59.36~~	59.36
710	1642850.00	516600.00	~~58.86~~	58.84
711	1642850.00	516550.00	~~58.36~~	56.36
712	1642850.00	516500.00	~~57.86~~	57.93
713	1642850.00	516450.00	~~57.36~~	57.41
714	1642850.00	516400.00	~~58.77~~	58.78
715	1642850.00	516350.00	~~61.42~~	61.44
716	1642850.00	516300.00	~~62.90~~	62.85
717	1642850.00	516250.00	~~63.12~~	63.17
718	1642850.00	516200.00	~~62.82~~	62.78
719	1642850.00	516150.00	~~62.53~~	62.55
720	1642850.00	516100.00	~~62.23~~	62.20
721	1642850.00	516050.00	~~61.94~~	61.88
722	1642850.00	516000.00	~~61.64~~	61.69
723	1642847.12	515965.81	~~60.00~~	60.10
724	1642857.24	515955.81	~~65.00~~	64.89
725	1642867.36	515945.81	~~70.00~~	69.97
726	1642877.48	515935.81	~~75.00~~	75.15
727	1642887.60	515925.81	~~80.00~~	79.98
728	1642897.72	515915.81	~~85.00~~	84.90
729	1642907.84	515905.81	~~90.00~~	90.02
730	1642917.95	515896.82	~~95.00~~	95.01
731	1642928.05	515887.83	~~100.00~~	100.02
732	1642938.05	515887.95	~~105.00~~	104.88
733	1642948.05	515888.07	~~110.00~~	109.91
734	1642958.05	515888.19	~~115.00~~	114.87
735	1642964.05	515888.26	~~118.00~~	118.06
736	1642959.84	515867.59	~~118.00~~	118.10
737	1642954.42	515870.16	~~115.00~~	114.91
738	1642945.50	515874.74	~~110.00~~	109.85
739	1642949.62	515852.52	~~118.00~~	118.11
740	1642945.35	515856.74	~~115.00~~	115.03
741	1642938.24	515863.77	~~110.00~~	109.89
742	1642931.12	515870.80	~~105.00~~	105.05
743	1642924.01	515877.83	~~100.00~~	100.15
744	1642914.49	515887.23	~~95.00~~	95.01
745	1642904.37	515897.23	~~90.00~~	90.06
746	1642894.26	515907.23	~~85.00~~	84.97
747	1642884.14	515917.23	~~80.00~~	80.06
748	1642874.02	515927.23	~~75.00~~	74.93
749	1642863.90	515937.23	~~70.00~~	69.94
750	1642853.78	515947.23	~~65.00~~	65.00
751	1642843.66	515957.23	~~60.00~~	59.87
752	1642836.25	515964.56	~~55.00~~	55.08
753	1642834.11	515963.67	~~55.00~~	55.02
754	1642835.13	515953.67	~~60.00~~	59.97
755	1642845.24	515943.67	~~65.00~~	64.98
756	1642855.36	515933.67	~~70.00~~	69.91
801	1642950.00	516400.00	~~108.21~~	108.22
802	1642950.00	516350.00	~~111.20~~	111.17
803	1642950.00	516300.00	~~112.86~~	112.88
804	1642950.00	516250.00	~~113.11~~	113.11
805	1642950.00	516200.00	~~112.82~~	112.79
806	1642950.00	516150.00	~~112.52~~	112.48
807	1642950.00	516100.00	~~112.23~~	112.17
808	1642950.00	516050.00	~~111.93~~	111.99
809	1642950.00	516000.00	~~111.64~~	111.67
810	1642950.00	515950.00	~~111.34~~	111.29
811	1642950.00	515900.00	~~111.05~~	111.01
812	1643000.00	516550.00	~~115.43~~	115.43
813	1643000.00	516600.00	~~107.00~~	106.91
814	1643000.00	516650.00	~~97.87~~	97.86
815	1643000.00	516700.00	~~89.33~~	89.31
816	1643000.00	516750.00	~~90.73~~	90.66
817	1643000.00	516800.00	~~100.78~~	100.87
818	1643000.00	516850.00	~~111.42~~	111.44
819	1643050.00	516750.00	~~114.82~~	114.82
820	1643050.00	516700.00	~~113.93~~	113.92
821	1642909.57	516719.88	~~61.25~~	61.20
822	1642838.95	516766.10	~~60.30~~	60.30
823	1642914.06	515887.67	94.79	.
824	1642996.04	516397.25	~~118.50~~	118.60
825	1642993.57	516397.62	~~118.50~~	118.63
826	1642991.10	516397.99	~~118.50~~	118.63
827	1642830.70	516002.72	~~52.50~~	52.60
828	1642784.89	516002.43	~~52.36~~	52.37
829	1642934.69	515842.13	~~118.00~~	118.06
830	1642932.38	515847.67	~~115.00~~	115.00
831	1642928.43	515856.86	~~110.00~~	109.97
832	1642715.03	515823.18	119.80	.

OFF-SITE GRADING TABLE			
POINT NO.	NORTHING	EASTING	ELEV. (FT.)
1001	[illegible]	[illegible]	[illegible]
1002	[illegible]	[illegible]	[illegible]
1003	[illegible]	[illegible]	[illegible]
1004	[illegible]	[illegible]	[illegible]
1005	[illegible]	[illegible]	[illegible]
1006	[illegible]	[illegible]	[illegible]
1007	[illegible]	[illegible]	[illegible]
1008	[illegible]	[illegible]	[illegible]
1009	[illegible]	[illegible]	[illegible]
1010	[illegible]	[illegible]	[illegible]
1011	[illegible]	[illegible]	[illegible]
1012	[illegible]	[illegible]	[illegible]
1013	[illegible]	[illegible]	[illegible]
1014	[illegible]	[illegible]	[illegible]
1015	[illegible]	[illegible]	[illegible]
1016	[illegible]	[illegible]	[illegible]
1017	[illegible]	[illegible]	[illegible]
1018	[illegible]	[illegible]	[illegible]
1019	[illegible]	[illegible]	[illegible]
1020	[illegible]	[illegible]	[illegible]
1021	[illegible]	[illegible]	[illegible]
1022	[illegible]	[illegible]	[illegible]
1023	[illegible]	[illegible]	[illegible]
1024	[illegible]	[illegible]	[illegible]
1025	[illegible]	[illegible]	[illegible]
1026	[illegible]	[illegible]	[illegible]
1027	[illegible]	[illegible]	[illegible]
1028	[illegible]	[illegible]	[illegible]
1029	[illegible]	[illegible]	[illegible]
1030	[illegible]	[illegible]	[illegible]
1031	[illegible]	[illegible]	[illegible]
1032	[illegible]	[illegible]	[illegible]
1033	[illegible]	[illegible]	[illegible]
1034	[illegible]	[illegible]	[illegible]
1035	[illegible]	[illegible]	[illegible]
1036	[illegible]	[illegible]	[illegible]
1037	[illegible]	[illegible]	[illegible]
1038	[illegible]	[illegible]	[illegible]
1039	[illegible]	[illegible]	[illegible]
1040	1642734.73	517032.53	127.00
1041	1642734.85	517035.37	127.53
1042	1642773.81	517035.44	127.64
1043	1642773.94	517032.53	126.83
1044	1642774.64	517018.06	126.65
1045	1642823.88	517018.54	126.82
1046	1642823.57	517033.66	126.92
1047	1642823.47	517035.68	127.69
1048	1642870.47	517035.65	126.78
1049	1642869.16	517021.96	126.93
1050	1642869.08	517020.33	127.58
1051	1642904.61	517019.19	126.70
1052	1642906.04	517034.12	126.92
1053	1642947.72	517033.80	125.75
1054	1642946.48	517022.45	126.44
1055	1642946.40	517005.31	126.33
1056	1642991.81	517003.26	126.52
1057	1642991.33	516989.47	126.22
1058	1642990.69	516976.73	126.36
1059	1642990.03	517007.59	126.48
1060	1642989.27	517014.18	126.25
1061	1642993.88	517018.62	125.80
1062	1643004.48	517022.15	124.99
1063	1643023.07	517021.28	124.62
1064	1643006.55	517019.66	128.15
1065	1643000.90	517013.96	128.87
1066	1642998.23	517011.81	128.91
1067	1642996.98	517008.93	129.72
1068	1642996.50	517005.81	129.24
1069	1642999.90	517004.33	128.15
1070	1643003.47	517002.10	127.63
1071	1643005.21	516998.14	126.91
1072	1643013.06	516994.00	125.94
1073	1643016.35	517003.48	121.37
1074	1643020.78	517010.62	121.89
1075	1643029.43	517014.35	122.63
1076	1643039.19	517014.35	122.89
1077	1642990.96	517023.35	125.31
1078	1642991.68	517033.97	125.31
1079	1643039.01	517034.35	125.42
1080	1643038.91	517019.51	124.46
1081	1643038.27	517013.16	122.42
1082	1643038.69	517006.43	121.65
1083	1643039.24	517003.88	121.67
1084	1643084.52	517000.62	123.47
1085	1643084.07	517004.43	123.36
1086	1643084.17	517006.47	121.92
1087	1643084.19	517015.39	123.22
1088	1643084.18	517022.26	123.51
1089	1643083.67	517033.12	123.84
1090	1643083.84	517035.37	124.56
1091	1643140.11	517005.86	122.03
1092	1643193.01	517000.35	122.49
1093	1643240.50	516996.39	122.43
1094	1643239.62	516987.32	125.70
1095	1643239.42	516978.57	131.59
1096	1643239.47	516976.09	130.31
1097	1643239.34	516970.68	132.11
1098	1643239.17	516961.90	130.93
1099	1643188.61	516961.65	128.87
1100	1643188.45	516978.77	129.11

OFF-SITE GRADING TABLE			
POINT NO.	NORTHING	EASTING	ELEV. (FT.)
1101	1643188.74	516988.80	128.97
1102	1643138.95	516990.51	129.67
1103	1643138.77	516988.18	128.19
1104	1643138.20	516961.25	127.51
1105	1643084.90	516965.34	127.25
1106	1643085.05	516989.15	127.31
1107	1643085.27	516992.95	128.94
1108	1643036.42	516991.35	127.16
1109	1643036.36	516989.59	126.23
1110	1643034.81	516968.10	125.55
1111	1643036.16	516951.96	125.42
1112	1643068.80	516967.71	126.27
1113	1643063.66	516951.36	124.53
1114	1643079.25	516950.12	124.27
1115	1643098.94	516930.14	122.70
1116	1643096.03	516958.60	126.92
1117	1643096.07	516958.35	126.95
1118	1643105.47	516952.18	127.78
1119	1643118.53	516937.60	127.21
1120	1643124.18	516920.58	126.50
1121	1643130.24	516901.54	126.53
1122	1643116.35	516912.67	125.03
1123	1643107.30	516920.97	123.49
1124	1643142.40	516893.68	126.73
1125	1643138.58	516934.88	126.64
1126	1643188.40	516928.79	127.68
1127	1643188.77	516882.43	127.26
1128	1643143.68	516880.33	127.15
1129	1643145.84	516846.75	127.70
1130	1643127.88	516865.84	126.17
1131	1643105.28	516889.77	124.48
1132	1643081.83	516911.86	123.13
1133	1643059.54	516934.61	124.20
1134	1643078.63	516931.03	123.21
1135	1643094.81	516916.44	122.94
1136	1643118.54	516894.13	125.08
1137	1643236.23	516881.30	127.22
1138	1643237.65	516924.67	128.50
1139	1643233.86	516837.21	127.99
1140	1643233.86	516837.07	127.99
1141	1643232.34	516789.23	128.82
1142	1643231.53	516739.97	130.47
1143	1643230.31	516692.28	130.44
1144	1643229.25	516644.40	129.88
1145	1643228.91	516590.97	128.86
1146	1643227.85	516542.00	124.97
1147	1643226.65	516492.11	124.70
1148	1643225.09	516456.72	123.93
1149	1643224.27	516442.85	122.62
1150	1643224.22	516414.35	123.44
1151	1643223.38	516392.36	122.83
1152	1643181.36	516412.53	121.69
1153	1643182.02	516426.86	121.10
1154	1643182.37	516430.91	120.77
1155	1643183.58	516449.94	120.82
1156	1643184.09	516468.46	120.40
1157	1643185.67	516489.39	122.18
1158	1643185.98	516505.50	122.81
1159	1643186.33	516526.28	123.12
1160	1643184.98	516559.37	126.24
1161	1643184.33	516591.39	127.91
1162	1643186.47	516635.82	128.55
1163	1643186.76	516658.01	129.57
1164	1643192.44	516699.44	130.42
1165	1643190.34	516739.02	129.78
1166	1643195.77	516739.39	129.85
1167	1643193.13	516785.13	129.74
1168	1643189.90	516835.02	128.13
1169	1643164.05	516822.03	128.95
1170	1643179.29	516789.96	129.36
1171	1643186.03	516763.68	129.50
1172	1643180.22	516636.31	128.34
1173	1643170.29	516602.86	126.66
1174	1643160.23	516574.56	125.79
1175	1643145.94	516548.95	123.27
1176	1643133.31	516546.84	120.86
1177	1643121.73	516539.20	119.33
1178	1643116.47	516522.60	118.87
1179	1643111.36	516506.81	118.82
1180	1643097.37	516509.34	117.54
1181	1643110.89	516525.49	118.59
1182	1643079.91	516493.11	115.94
1183	1643065.07	516482.56	115.04
1184	1643053.89	516482.97	114.66
1185	1643048.34	516490.47	114.35
1186	1643035.93	516451.04	114.62
1187	1643054.96	516449.31	114.36
1188	1643100.14	516444.52	114.56
1189	1643117.26	516443.47	115.97
1190	1643137.14	516437.56	117.85
1191	1643143.48	516463.87	118.71
1192	1643142.80	516492.52	119.35
1193	1643153.77	516509.02	119.68
1194	1643160.57	516520.62	120.77
1195	1643164.98	516537.01	123.20
1196	1643164.98	516556.42	124.97
1197	1643148.61	516538.07	122.00
1198	1643154.50	516521.22	119.72
1199	1643143.14	516527.36	119.78
1200	1643135.73	516533.23	119.44

OFF-SITE GRADING TABLE			
POINT NO.	NORTHING	EASTING	ELEV. (FT.)
1201–1300	[illegible]	[illegible]	[illegible]

OFF-SITE GRADING TABLE			
POINT NO.	NORTHING	EASTING	ELEV. (FT.)
1301–1400	[illegible]	[illegible]	[illegible]

OFF-SITE GRADING TABLE			
POINT NO.	NORTHING	EASTING	ELEV. (FT.)
1401–1500	[illegible]	[illegible]	[illegible]

OFF-SITE GRADING TABLE			
POINT NO.	NORTHING	EASTING	ELEV. (FT.)
1501–1596	[illegible]	[illegible]	[illegible]

CERTIFIED TO:
BERGLUND CONSTRUCTION SERVICES, LLC
This survey is not valid without the original signature and raised seal of a Florida licensed Surveyor and Mapper.

SURVEYOR'S CERTIFICATE:
Christopher J. Noyes, PSM
7168 65th Street
Pinellas Park, Fl. 33781

I hereby certify that the survey represented hereon meets the requirements of Chapter 61G17-6, Florida Administrative Code.

Christopher J. Noyes, PSM
Florida Surveyors Registration No. 6381

Last Survey Date: 12/21/10

AS-BUILT NOTE:
1. CLOUDED AREA DENOTES AS-BUILT INFORMATION.

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
APR 07 2011
SOUTHWEST DISTRICT TAMPA

REV	DATE	DESCRIPTION	BY
1	12/21/10	AS-BUILT INFORMATION	JB

DRAWING TITLE: OFF-SITE GRADING CONTROL POINTS AS-BUILT TABLE

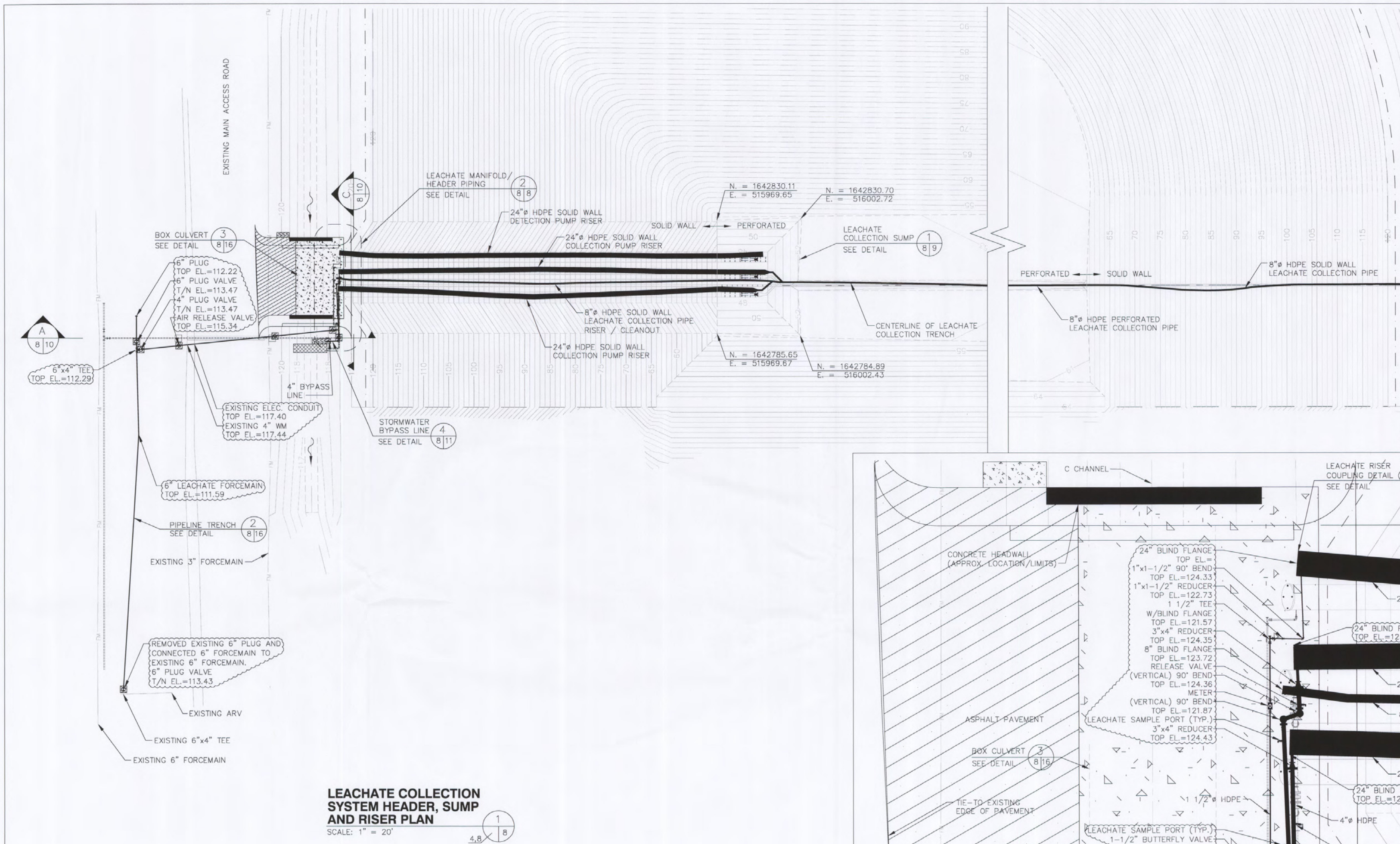
PROJECT TITLE: CENTRAL LANDFILL PHASE 3 EXPANSION PROJECT

PREPARED FOR: COMANCO ENVIRONMENTAL CORPORATION PLANT CITY, FLORIDA

BERGLUND CONSTRUCTION SERVICES, LLC
PINELLAS COUNTY, FLORIDA
P: 727-639-1241 F: 727-475-9979

PROJ. NO. 09207049.06 | DWN. BY: JB | Q/A RVW BY: | DSN. BY: | CHK. BY: CN | APP. BY:

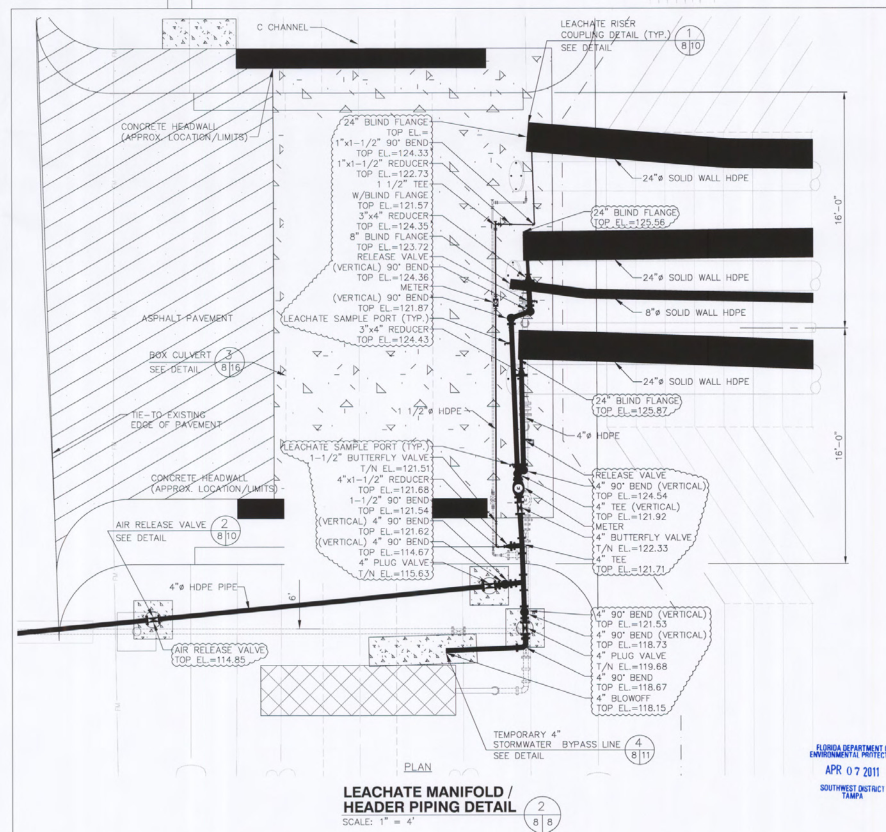
CADD FILE: ASB_0749060SGRAD-CNTRL
DATE: APRIL 2010
SCALE: AS SHOWN
DRAWING NO. 6.1



LEACHATE COLLECTION SYSTEM HEADER, SUMP AND RISER PLAN 1 8

SCALE: 1" = 20'

4,8



LEACHATE MANIFOLD / HEADER PIPING DETAIL 2 8|8

SCALE: 1" = 4'

SURVEY CONTROL POINTS:

CONTROL POINT NO. 60
NORTH 1643105.783
EAST 515765.763
ELEVATION 120.08' (NGVD 29)

CONTROL POINT NO. 13 (CITRUS 13)
NORTH 1643796.219
EAST 513851.261
ELEVATION 96.14' (NGVD 29)

CONTROL POINT NO. 14 (CITRUS 14)
NORTH 1644565.866
EAST 517007.863
ELEVATION 135.93' (NGVD 29)

SURVEYOR'S NOTES:

1. AS-BUILT LOCATIONS BOTH HORIZONTALLY AND VERTICALLY ARE BASED ON SITE PLAN CONTROL POINTS. AS SHOWN ON THE CONSTRUCTION DRAWINGS OF CITRUS COUNTY CENTRAL LANDFILL PHASE 3 EXPANSION PROJECT.
2. CLOUDED AREA DENOTES AS-BUILT INFORMATION.
3. THIS DOCUMENT IS NOT INTENDED TO REPRESENT A BOUNDARY SURVEY.
4. THIS DOCUMENT MEETS COMMERCIAL/HIGH RISK LINEAR: 1:10,000.

LEGEND

55	TOP OF SUBGRADE LAYER CONTOUR (5 FOOT INTERVAL)
	TOP OF SUBGRADE LAYER CONTOUR (1 FOOT INTERVAL)
90	EXISTING GRADE CONTOUR (5 FOOT INTERVAL) 04/08/09 SURVEY
	EXISTING GRADE CONTOUR (1 FOOT INTERVAL) 04/08/09 SURVEY
	SURFACE WATER FLOW/SLOPE DIRECTION
	LIMIT OF PHASE 3 DISPOSAL CELL (AT TOP OF SLOPE)
	PHASE 3 LINER ANCHOR TRENCH TURN-DOWN POINT (OUTSIDE PERIMETER)

CERTIFIED TO:
BERGLUND CONSTRUCTION SERVICES, LLC
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SURVEYOR'S CERTIFICATE:
Christopher J. Noyes, PSM
7168 65th Street
Pinellas Park, Fl. 33781

I hereby certify that the survey represented hereon meets the requirements of Chapter 61G17-6, Florida Administrative Code.

Christopher J. Noyes, PSM
Florida Surveyors Registration No. 6381

Last Survey Date: 12/21/10

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
APR 07 2011
SOUTHWEST DISTRICT TAMPA

REV	DATE	DESCRIPTION	BY
	12/21/10	AS-BUILT INFORMATION	JB

DRAWING TITLE: **LEACHATE COLLECTION SYSTEM AS-BUILT PLAN**

PROJECT TITLE: **CENTRAL LANDFILL PHASE 3 EXPANSION PROJECT**

PREPARED FOR: **COMANCO ENVIRONMENTAL CORPORATION PLANT CITY, FLORIDA**

BERGLUND CONSTRUCTION SERVICES, LLC
PINELLAS COUNTY, FLORIDA
P: 727-639-1241 F: 727-475-9979

PROJ. NO.: 09207049.06
DWN. BY: JB
CHK. BY: CN
Q/A RVW BY:
APP. BY:

CADD FILE: ASB_074906LCSPLAN

DATE: APRIL 2010

SCALE: AS SHOWN

DRAWING NO. **8**

SURVEYOR'S NOTES:

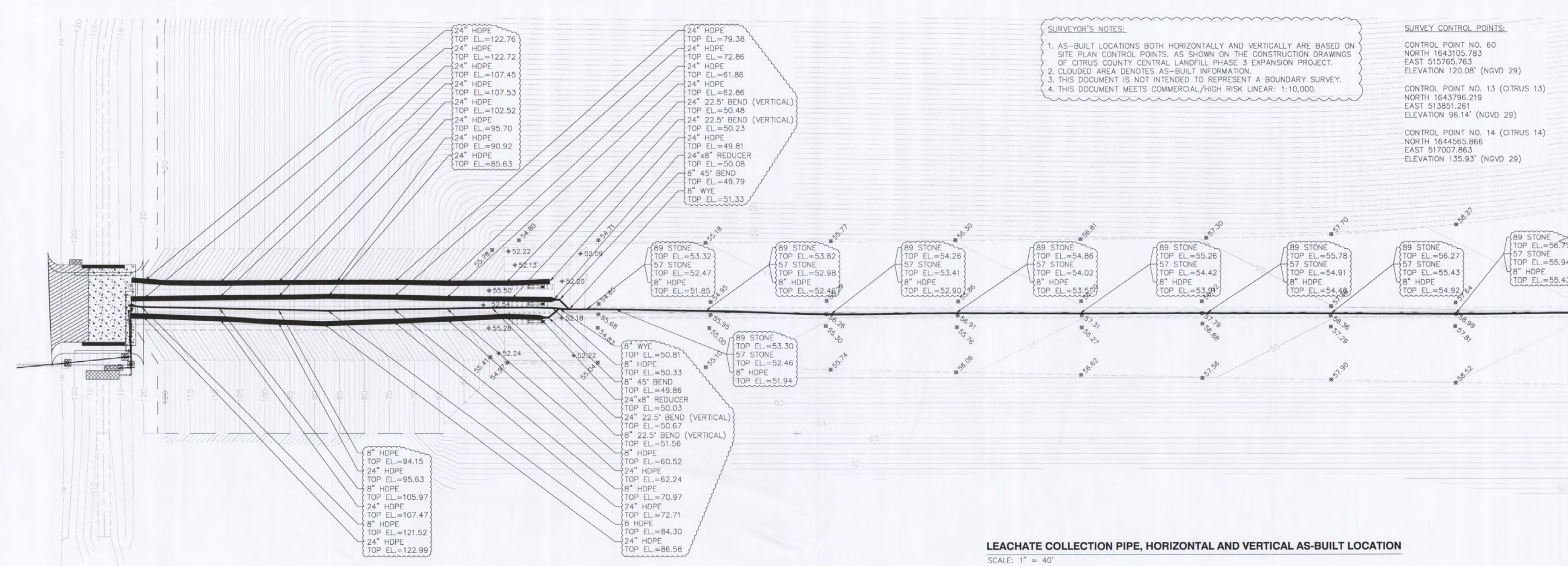
1. AS-BUILT LOCATIONS BOTH HORIZONTALLY AND VERTICALLY ARE BASED ON SITE PLAN CONTROL POINTS AS SHOWN ON THE CONSTRUCTION DRAWINGS OF CITRUS COUNTY CENTRAL LANDFILL PHASE 3 EXPANSION PROJECT.
2. CLOUDED AREA DENOTES AS-BUILT INFORMATION.
3. THIS DOCUMENT IS NOT INTENDED TO REPRESENT A BOUNDARY SURVEY.
4. THIS DOCUMENT MEETS COMMERCIAL/HIGH RISK LINEAR: 1:10,000.

SURVEY CONTROL POINTS:

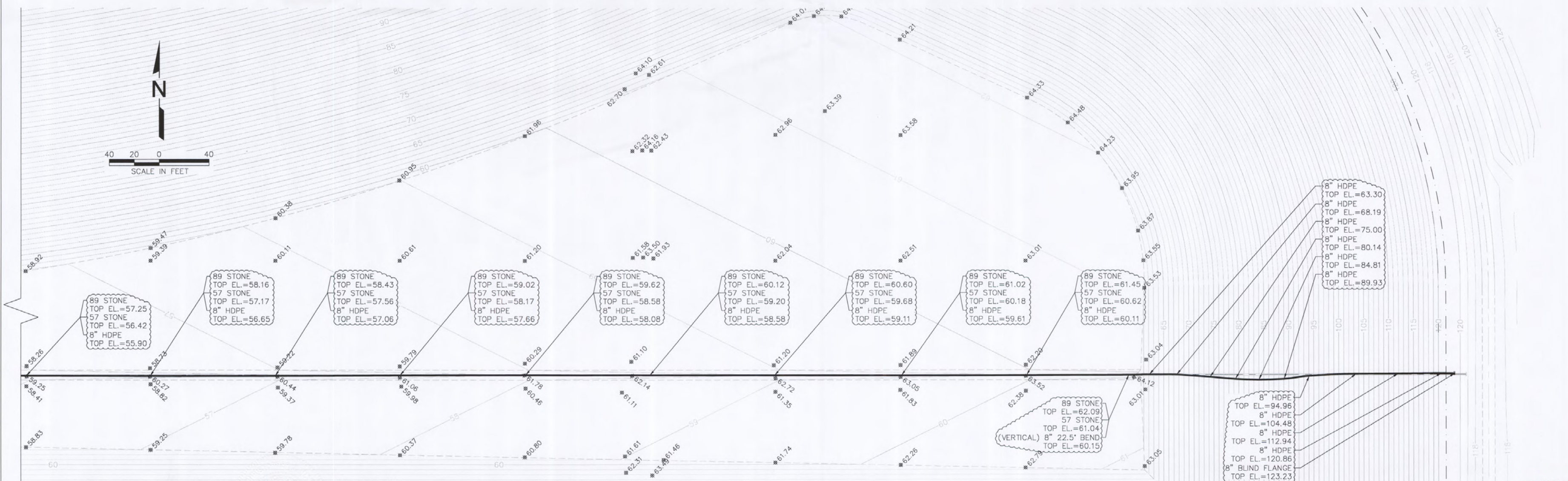
CONTROL POINT NO. 60
NORTH 1643105.783
EAST 515765.763
ELEVATION 120.08' (NGVD 29)

CONTROL POINT NO. 13 (CITRUS 13)
NORTH 1643796.219
EAST 513851.261
ELEVATION 96.14' (NGVD 29)

CONTROL POINT NO. 14 (CITRUS 14)
NORTH 1644565.866
EAST 517007.863
ELEVATION 135.93' (NGVD 29)



LEACHATE COLLECTION PIPE, HORIZONTAL AND VERTICAL AS-BUILT LOCATION
SCALE: 1" = 40'



LEACHATE COLLECTION PIPE, HORIZONTAL AND VERTICAL AS-BUILT LOCATION
SCALE: 1" = 40'

CERTIFIED TO:
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7168 65th Street
Pinellas Park, Fl. 33781

I hereby certify that the survey represented hereon meets the requirements of Chapter 61G17-6, Florida Administrative Code.

Christopher J. Noyes, PSM
Florida Surveyors Registration No. 6381

Last Survey Date; 12/21/10

LEGEND
#57 STONE SPOT ELEVATION
PROTECTIVE COVER SPOT ELEVATION

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
APR 07 2011
SOUTHWEST DISTRICT TAMPA

REV	DATE	DESCRIPTION	BY	
1	12/21/10	AS-BUILT INFORMATION	JB	DOMINIQUE H. BRAMLETT, P.E.

DRAWING TITLE: LEACHATE COLLECTION SYSTEM AS-BUILT PLAN

PROJECT TITLE: CENTRAL LANDFILL PHASE 3 EXPANSION PROJECT

PREPARED FOR: COMANCO ENVIRONMENTAL CORPORATION PLANT CITY, FLORIDA

BERGLUND CONSTRUCTION SERVICES, LLC
PINELLAS COUNTY, FLORIDA
P: 727-639-1241 F: 727-475-9979

PROJ. NO. 09207049.06 | DWN. BY: JB | Q/A RVW BY:
DSN. BY: | CHK. BY: CN | APP. BY:

CADD FILE: ASB_074906LCSPLAN
DATE: APRIL 2010
SCALE: AS SHOWN
DRAWING NO. 8.1