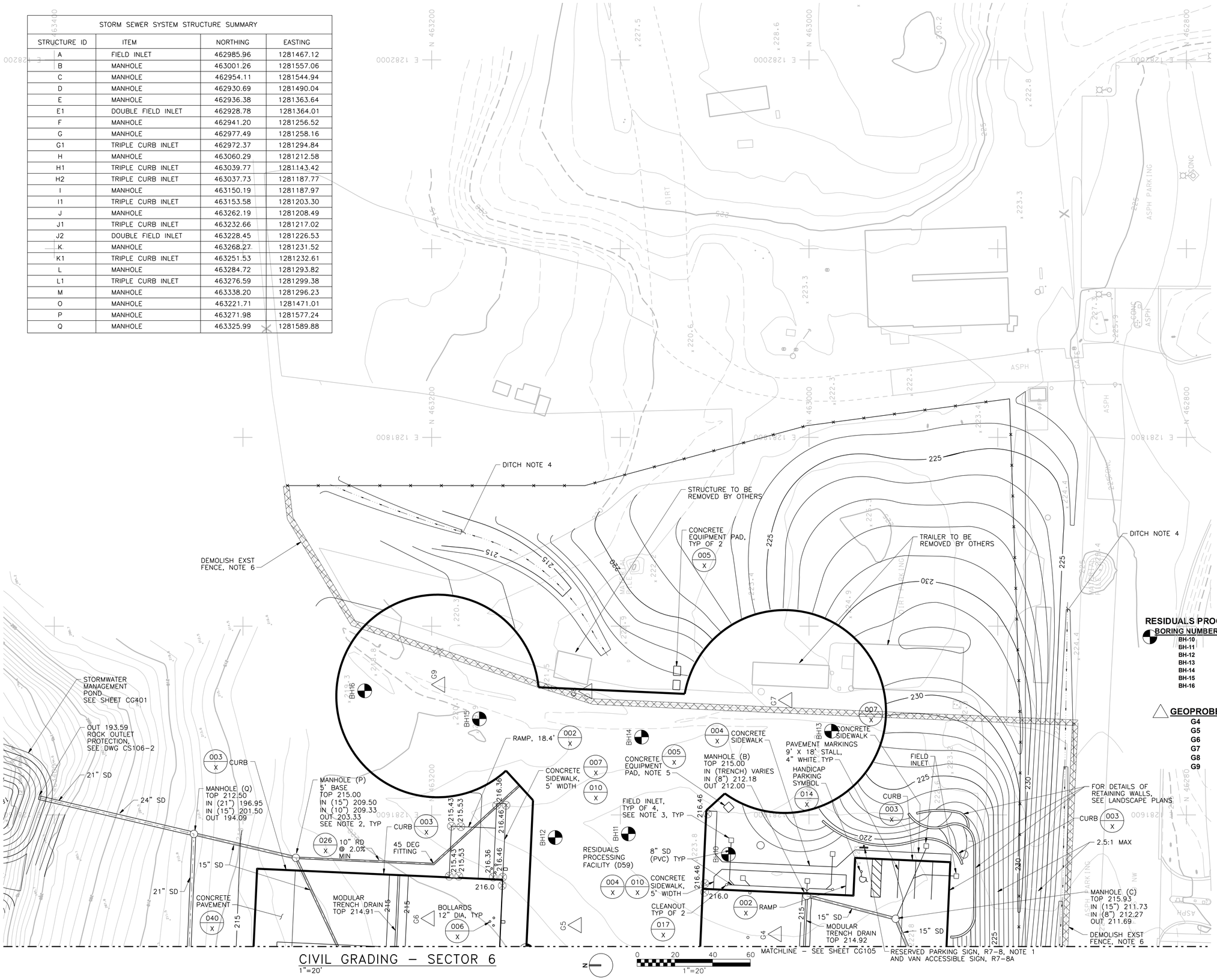
# Appendix C
# Boring Location Plans

| STORM SEWER SYSTEM STRUCTURE SUMMARY | | | |
|---|---|---|---|
| STRUCTURE ID | ITEM | NORTHING | EASTING |
| A | FIELD INLET | 462985.96 | 1281467.12 |
| B | MANHOLE | 463001.26 | 1281557.06 |
| C | MANHOLE | 462954.11 | 1281544.94 |
| D | MANHOLE | 462930.69 | 1281490.04 |
| E | MANHOLE | 462936.38 | 1281363.64 |
| E1 | DOUBLE FIELD INLET | 462928.78 | 1281364.01 |
| F | MANHOLE | 462941.20 | 1281256.52 |
| G | MANHOLE | 462977.49 | 1281258.16 |
| G1 | TRIPLE CURB INLET | 462972.37 | 1281294.84 |
| H | MANHOLE | 463060.29 | 1281212.58 |
| H1 | TRIPLE CURB INLET | 463039.77 | 1281143.42 |
| H2 | TRIPLE CURB INLET | 463037.73 | 1281187.77 |
| I | MANHOLE | 463150.19 | 1281187.97 |
| I1 | TRIPLE CURB INLET | 463153.58 | 1281203.30 |
| J | MANHOLE | 463262.19 | 1281208.49 |
| J1 | TRIPLE CURB INLET | 463232.66 | 1281217.02 |
| J2 | DOUBLE FIELD INLET | 463228.45 | 1281226.53 |
| K | MANHOLE | 463268.27 | 1281231.52 |
| K1 | TRIPLE CURB INLET | 463251.53 | 1281232.61 |
| L | MANHOLE | 463284.72 | 1281293.82 |
| L1 | TRIPLE CURB INLET | 463276.59 | 1281299.38 |
| M | MANHOLE | 463338.20 | 1281296.23 |
| O | MANHOLE | 463221.71 | 1281471.01 |
| P | MANHOLE | 463271.98 | 1281577.24 |
| Q | MANHOLE | 463325.99 | 1281589.88 |

NOTES:

1. ALL ROADWAY SIGNS SHALL BE IN ACCORDANCE WITH MUTCD, LATEST EDITION.
2. STORM SEWER MANHOLES SHALL BE AS PER DETAIL 028/X UNLESS SHOWN OTHERWISE.
3. SEE DETAIL 036/X FOR ALL FIELD INLETS.
4. TYPICAL DITCH SECTION SHALL BE 2' WIDE BOTTOM WIDTH, MIN 2' DEEP AND 3:1 SIDESLOPES.
5. CONTRACTOR SHALL COORDINATE SIZE OF PAD WITH GAS COMPANY.
6. MAINTAIN A SECURE SITE PERIMETER AT ALL TIMES. TO THIS END, SOME AREAS OF NEW FENCE MAY NEED TO BE INSTALLED PRIOR TO DEMOLITION OF OLD FENCE OR GATE.




CIVIL GRADING – SECTOR 6
1"=20'

**RESIDUALS PROCESSING FACILITY**

| BORING NUMBER | NORTHING | EASTING | ELEVATION |
|---|---|---|---|
| BH-10 | 463042.7597 | 1281579.1090 | 223.7621 |
| BH-11 | 463095.8150 | 1281587.9530 | 223.2641 |
| BH-12 | 463134.5724 | 1281587.9940 | 222.1194 |
| BH-13 | 462988.1460 | 1281644.3930 | 222.2941 |
| BH-14 | 463088.8051 | 1281641.2300 | 221.1720 |
| BH-15 | 463174.7829 | 1281650.8110 | 220.0700 |
| BH-16 | 463235.5426 | 1281665.7330 | 219.8714 |

| GEOPROBE | NORTHING | EASTING |
|---|---|---|
| G4 | 463018.26 | 1281536.8 |
| G5 | 463124.25 | 1281541.59 |
| G6 | 463202.16 | 1281545.1 |
| G7 | 463012.71 | 1281660.75 |
| G8 | 463118.67 | 1281665.49 |
| G9 | 463202.16 | 1281545.10 |

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|

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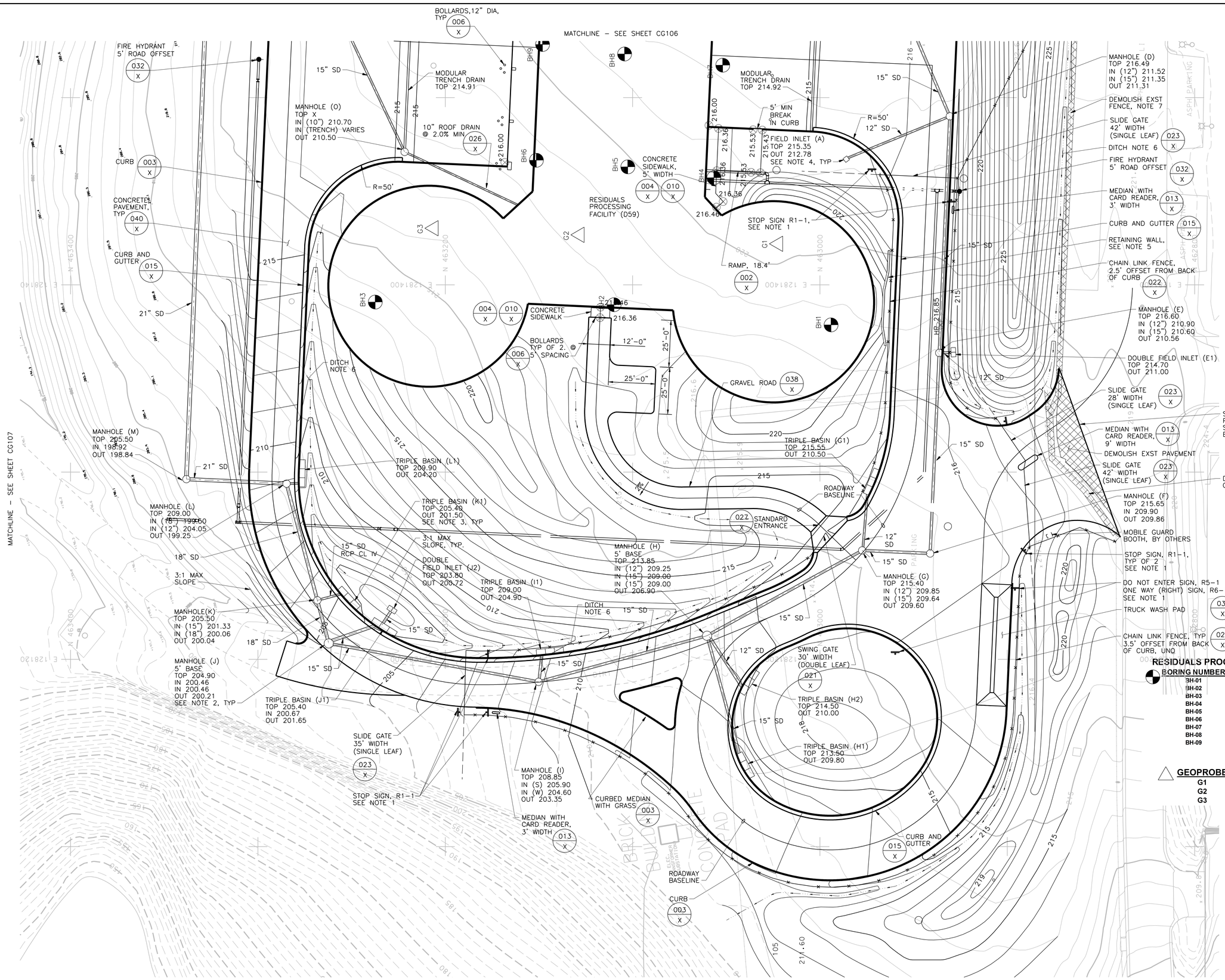
BALTIMORE, MARYLAND

WASHINGTON AQUEDUCT
RESIDUALS COLLECTION AND TREATMENT FACILITIES
DALECARLIA WTP
SOIL BORING LOCATION PLAN
CIVIL

CH2MHILL

| DRAWING NUMBER | PLATE |
|---|---|
| 200.1.061 | 061 |

SCALE: AS SHOWN | DATE: APRIL 2007 | SHEET: CG106




NOTES:

1. ALL ROADWAY SIGNS SHALL BE IN ACCORDANCE WITH MUTCD, LATEST EDITION.
2. STORM SEWER MANHOLES SHALL BE AS PER DETAIL 028 X UNLESS SHOWN OTHERWISE.
3. SEE DETAIL 035 X FOR ALL TRIPLE BASIN INLETS.
4. SEE DETAIL 036 X FOR ALL FIELD INLETS.
5. RETAINING WALL SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS: SLOPE BLOCK IV, PISA II, OR APPROVED EQUAL.
6. TYPICAL DITCH SECTION SHALL BE 2' WIDE BOTTOM WIDTH, MIN 2' DEEP, AND 3:1 SIDESLOPES.
7. MAINTAIN A SECURE SITE PERIMETER AT ALL TIMES. TO THIS END, SOME AREAS OF NEW FENCE MAY NEED TO BE INSTALLED PRIOR TO DEMOLITION OF OLD FENCE OR GATE.

## RESIDUALS PROCESSING FACILITY

| BORING NUMBER | NORTHING | EASTING | ELEVATION |
|---|---|---|---|
| BH-01 | 462997.3977 | 1281387.5180 | 218.8345 |
| BH-02 | 463109.9584 | 1281389.4210 | 217.8668 |
| BH-03 | 463237.4068 | 1281390.8260 | 213.2891 |
| BH-04 | 463056.6507 | 1281457.2230 | 220.5162 |
| BH-05 | 463102.6226 | 1281463.0320 | 219.3912 |
| BH-06 | 463151.4029 | 1281466.5650 | 218.4911 |
| BH-07 | 463051.9350 | 1281517.3350 | 222.0985 |
| BH-08 | 463104.3310 | 1281523.3120 | 221.2288 |
| BH-09 | 463148.1217 | 1281528.3890 | 220.0276 |

| GEOPROBE | NORTHING | EASTING |
|---|---|---|
| G1 | 463023.44 | 1281421.92 |
| G2 | 463129.43 | 1281426.7 |
| G3 | 463207.35 | 1281430.22 |

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|

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DALECARLIA WTP
SOIL BORING LOCATION PLAN
CIVIL

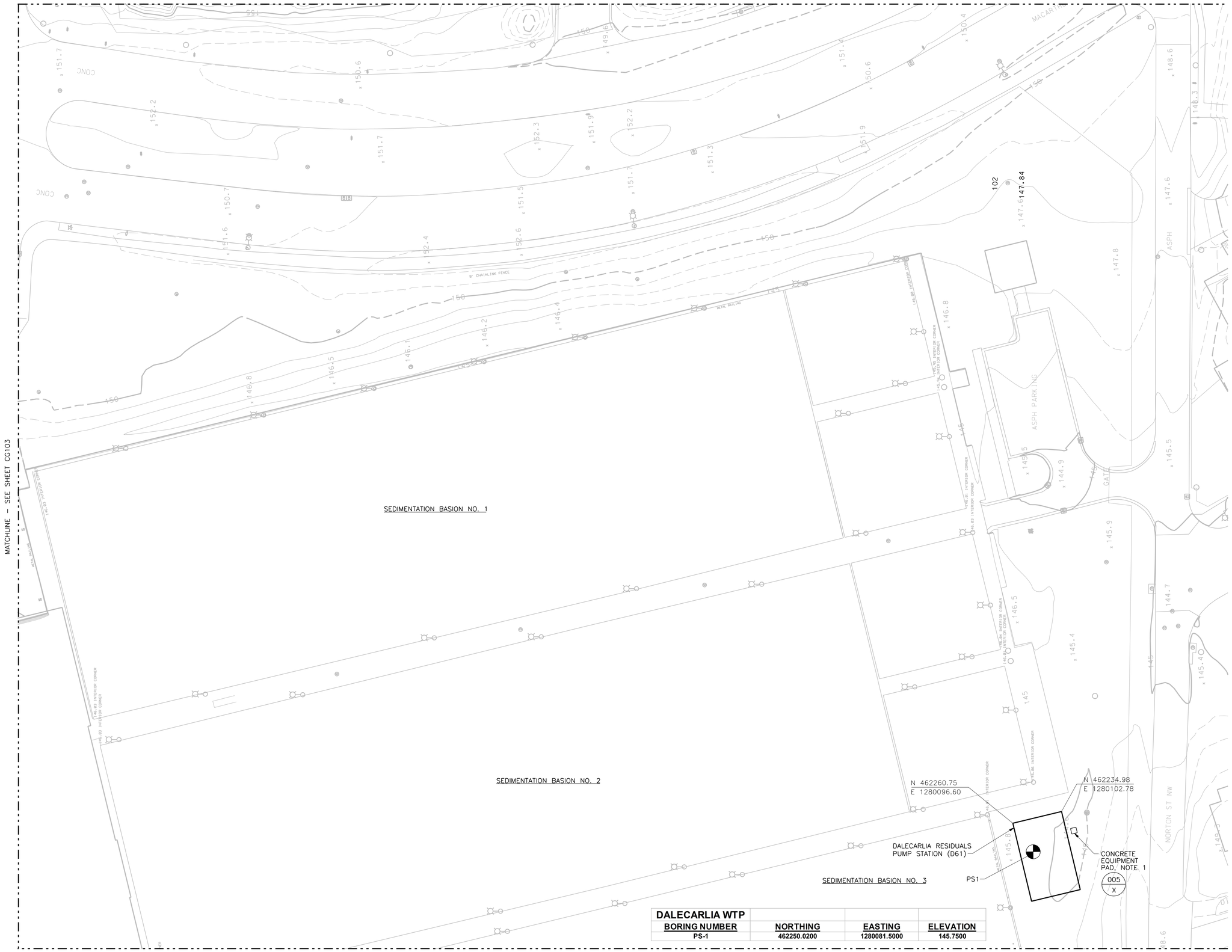
CH2MHILL

DRAWING NUMBER 200.1.060 | PLATE 060

SCALE: AS SHOWN | DATE: APRIL 2007 | SHEET: CG105

CIVIL GRADING – SECTOR 5
1"=20'

0 20 40 60
1"=20'




| DALECARLIA WTP | | | |
|---|---|---|---|
| BORING NUMBER | NORTHING | EASTING | ELEVATION |
| PS-1 | 462250.0200 | 1280081.5000 | 145.7500 |

NOTES:

1. CONTRACTOR SHALL COORDINATE SIDE OF PAD WITH GAS COMPANY.

# CIVIL GRADING – SECTOR 2

1"=20'

N

0 20 40 60

1"=20'

MATCHLINE – SEE SHEET CG101

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
| | | | |
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| | | | |

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DALECARLIA WTP
GRADING & BORINGS – SECTOR 2
CIVIL

CH2MHILL

DRAWING NUMBER: 200.1.059

PLATE: 059

SCALE: AS SHOWN | DATE: APRIL 2007 | SHEET: CG102

CIVIL GRADING – SECTOR 8

1"=30'

0 20 40 60

1"=30'

**DALECARLIA/FOREBAY**

| BORING NUMBER | NORTHING | EASTING | ELEVATION |
|---|---|---|---|
| FPS-1 | 465234.6300 | 1279666.0700 | 156.7900 |
| FB-1 | 465020.9700 | 1280122.9100 | 151.6500 |

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
| | | | |
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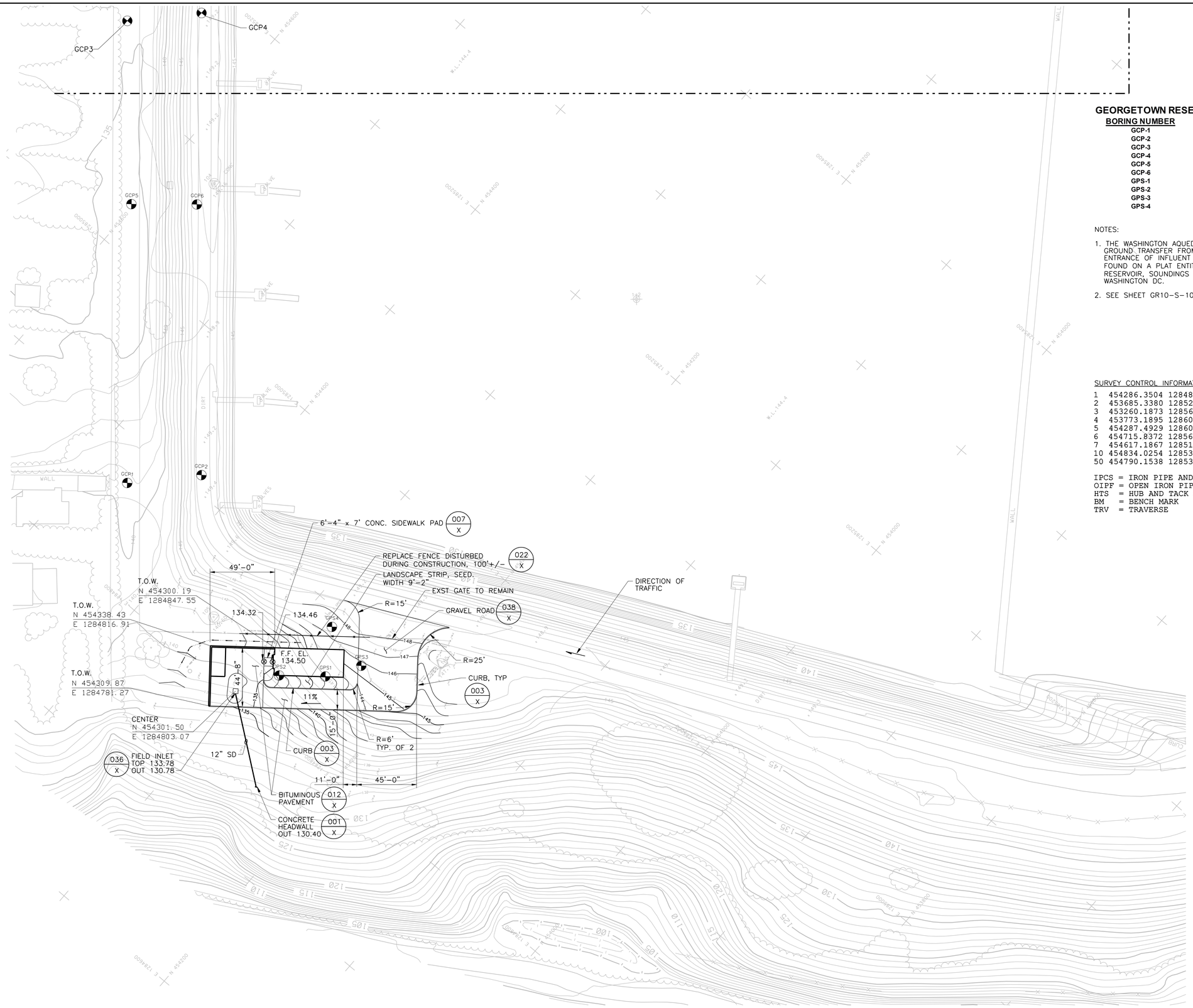
RESIDUALS COLLECTION AND
TREATMENT FACILITIES
DALECARLIA/FOREBAY
GRADING & BORINGS – SECTOR 8
CIVIL

CH2MHILL

DRAWING NUMBER 200.1.062

PLATE 062

SCALE: AS SHOWN DATE: APRIL 2007 SHEET: CG108




## GEORGETOWN RESERVOIR

| BORING NUMBER | NORTHING | EASTING | ELEVATION |
|---|---|---|---|
| GCP-1 | 454468.0924 | 1284871.0501 | 139.3094 |
| GCP-2 | 454422.7933 | 1284904.0059 | 149.6094 |
| GCP-3 | 454719.0911 | 1285171.7407 | 136.0977 |
| GCP-4 | 454677.8904 | 1285202.3947 | 149.1041 |
| GCP-5 | 454589.5397 | 1285018.0993 | 134.6560 |
| GCP-6 | 454557.0770 | 1285058.9202 | 148.9330 |
| GPS-1 | 454255.6263 | 1284854.1424 | 145.0644 |
| GPS-2 | 454280.5581 | 1284833.1985 | 141.8928 |
| GPS-3 | 454227.8600 | 1284887.9200 | 147.4000 |
| GPS-4 | 454278.2599 | 1284895.2199 | 147.4860 |

NOTES:

1. THE WASHINGTON AQUEDUCT VERTICAL DATUM WAS ESTABLISHED BY GROUND TRANSFER FROM BOX CUT ON GRANITE SLAB FOUND AT THE ENTRANCE OF INFLUENT GATE HOUSE. ELEVATION INFORMATION WAS FOUND ON A PLAT ENTITLED "WASHINGTON AQUEDUCT, GEORGETOWN RESERVOIR, SOUNDINGS – 1943" DONE BY U.S. ENGINEER OFFICE, WASHINGTON DC.
2. SEE SHEET GR10–S–102 FOR RETAINING WALL ADDITIONAL INFORMATION.

SURVEY CONTROL INFORMATION

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1  454286.3504 1284890.6375 147.74 TRV 1 IPCS
2  453685.3380 1285222.9695 149.22 TRV 2 IPCS
3  453260.1873 1285627.9104 146.71 TRV 3 IPCS
4  453773.1895 1286095.4571 149.47 TRV 4 OIPF
5  454287.4929 1286000.4001 149.02 TRV 5 IPCS
6  454715.8372 1285611.9111 149.15 TRV 6 IPCS
7  454617.1867 1285123.7038 148.41 TRV 7 IPCS
10 454834.0254 1285343.3746 148.76 TRV 10 HTS
50 454790.1538 1285338.4467 150.36 BM BOX CUT

IPCS = IRON PIPE AND CAP SET
OIPF = OPEN IRON PIPE FOUND
HTS  = HUB AND TACK SET
BM   = BENCH MARK
TRV  = TRAVERSE
```

## CIVIL GRADING – SECTOR 9

1"=30'

| REV | DATE | DESCRIPTION | BY |
|---|---|---|---|
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| | | | |
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GEORGETOWN RESERVOIR
GRADING & BORINGS – SECTOR 9
CIVIL

CH2MHILL

DRAWING NUMBER 200.1.063 | PLATE 063

SCALE: AS SHOWN | DATE: APRIL 2007 | SHEET: CG109