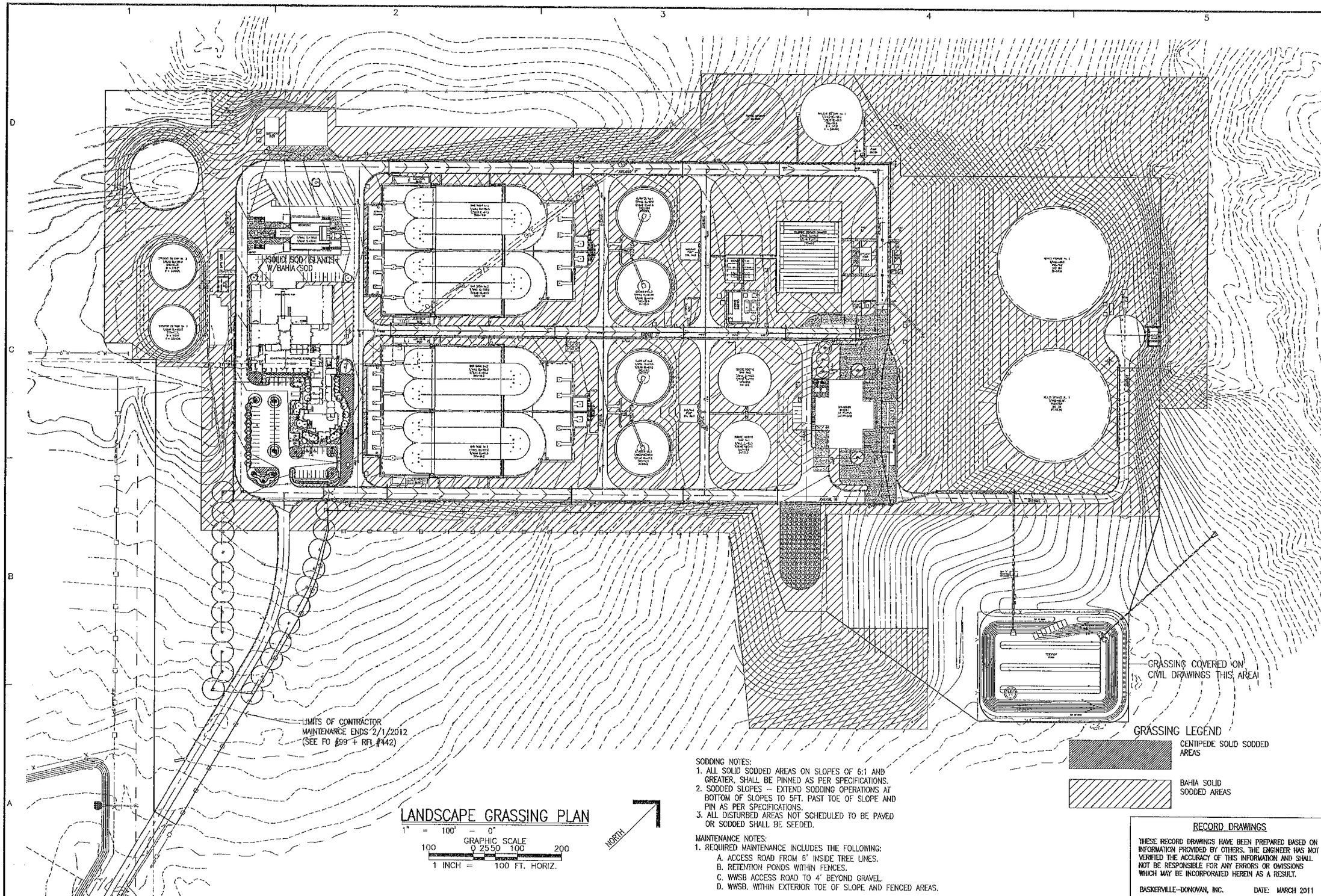

LANDSCAPE GRASSING PLAN

1" = 100' – 0"

GRAPHIC SCALE
100 0 25 50 100 200
1 INCH = 100 FT. HORIZ.

SODDING NOTES:
1. ALL SOLID SODDED AREAS ON SLOPES OF 6:1 AND GREATER, SHALL BE PINNED AS PER SPECIFICATIONS.
2. SODDED SLOPES – EXTEND SODDING OPERATIONS AT BOTTOM OF SLOPES TO 5FT. PAST TOE OF SLOPE AND PIN AS PER SPECIFICATIONS.
3. ALL DISTURBED AREAS NOT SCHEDULED TO BE PAVED OR SODDED SHALL BE SEEDED.

MAINTENANCE NOTES:
1. REQUIRED MAINTENANCE INCLUDES THE FOLLOWING:
   A. ACCESS ROAD FROM 6' INSIDE TREE LINES.
   B. RETENTION PONDS WITHIN FENCES.
   C. WWSB ACCESS ROAD TO 4' BEYOND GRAVEL.
   D. WWSB. WITHIN EXTERIOR TOE OF SLOPE AND FENCED AREAS.

GRASSING LEGEND

CENTIPEDE SOLID SODDED AREAS

BAHIA SOLID SODDED AREAS

RECORD DRAWINGS

THESE RECORD DRAWINGS HAVE 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.

BASKERVILLE–DONOVAN, INC. DATE: MARCH 2011

RECORD DRAWING

BASKERVILLE-DONOVAN, INC.
INNOVATIVE INFRASTRUCTURE SOLUTIONS
PENSACOLA ■ PANAMA CITY ■ TALLAHASSEE ■ MOBILE
449 WEST MAIN STREET
PENSACOLA, FLORIDA 32502 (850)433-9661
ENGINEERING BUSINESS: ES-0000340

DAVID K. HEMPHILL
FL Reg. Landscape Architect #502

ECUA
CENTRAL WATER RECLAMATION FACILITY
ESCAMBIA COUNTY, FLORIDA

NO.	DATE	APPR.	REVISION/ACTION TAKEN
1.	3/13/08	DAC	100% SUBMITTAL – FOR REVIEW ONLY
2.	4/3/08	DAC	RELEASED FOR BID
3.	JUNE 08	DAC	RELEASED FOR CONSTRUCTION
4	MARCH 2011	DAC	RECORD DRAWING

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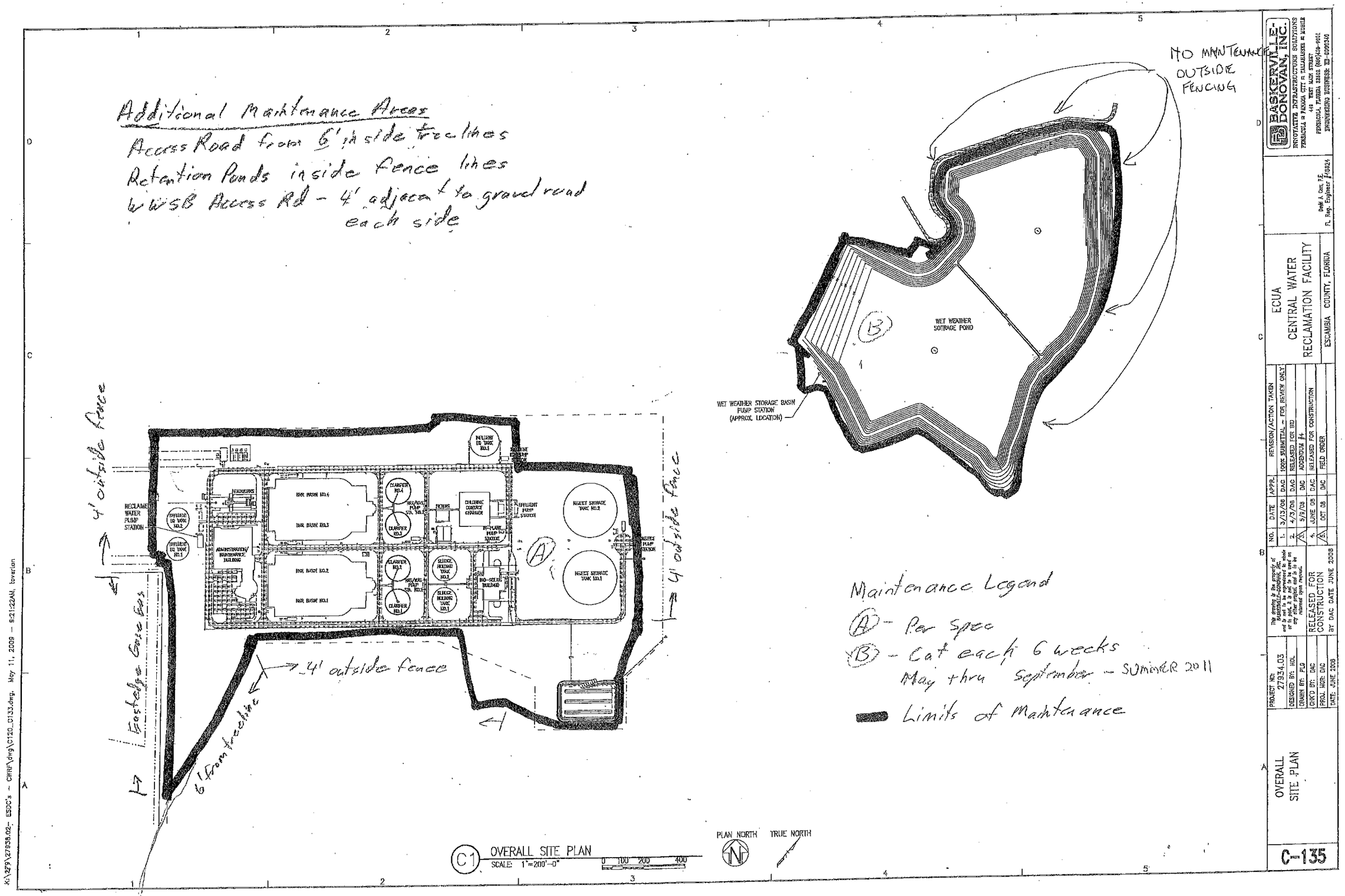
RELEASED FOR CONSTRUCTION
BY DAC DATE JUNE 2008

PROJECT NO: 27934.03
DESIGNED BY: LGW
DRAWN BY: LGW
CHK'D BY: LGW
PROJ. MGR: DAC
DATE: FEBRUARY 2011

LANDSCAPE GRASSING PLAN

L–108

K:\279\27938.02– ESDC's – CWRF\dwg\021408 Landscape 2.dwg, Apr 01, 2011 – 7:30:07AM, toverton



Additional Maintenance Areas
Access Road from 6' inside tree lines
Retention Ponds inside fence lines
WWSB Access Rd - 4' adjacent to gravel road each side
NO MAINTENANCE OUTSIDE FENCING
WET WEATHER SOTRAGE POND
WET WEATHER STORAGE BASIN PUMP STATION (APPROX. LOCATION)
B
4' outside fence
RECLAIMED WATER PUMP STATION
EFFLUENT EQ TANK NO.2
EFFLUENT EQ TANK NO.1
HEADWORKS
ADMINISTRATION/ MAINTENANCE BUILDING
BNR BASIN NO.4
BNR BASIN NO.3
BNR BASIN NO.2
BNR BASIN NO.1
CLARIFIER NO.4
CLARIFIER NO.3
CLARIFIER NO.2
CLARIFIER NO.1
RAS/WAS PUMP STA. NO.2
RAS/WAS PUMP STA. NO.1
FILTERS
CHLORINE CONTACT CHAMBER
RE-PLANT PUMP STATION
SLUDGE HOLDING TANK NO.2
SLUDGE HOLDING TANK NO.1
BIO-SOLIDS BUILDING
INFLUENT EQ TANK NO.1
INFLUENT PUMP STATION
INSECT STORAGE TANK NO.2
INSECT STORAGE TANK NO.1
INSECT PUMP STATION
A
4' outside fence
4' outside fence
Eastedge Gas Gas
6' from treeline
Maintenance Legend
A - Per Spec
B - Cut each 6 weeks May thru September - SUMMER 2011
Limits of Maintenance
C1 OVERALL SITE PLAN
SCALE: 1"=200'-0"
0 100 200 400
PLAN NORTH
TRUE NORTH
N
BASKERVILLE-DONOVAN, INC.
INNOVATIVE INFRASTRUCTURE SOLUTIONS
PENSACOLA ■ PANAMA CITY ■ TALLAHASSEE ■ MOBILE
440 WEST MAIN STREET
PENSACOLA, FLORIDA 32502 (850)438-9001
ENGINEERING BUSINESS: ED-0000340
Daniel A. Carr, P.E.
FL Reg. Engineer #48824
ECUA
CENTRAL WATER
RECLAMATION FACILITY
ESCAMBIA COUNTY, FLORIDA
NO. | DATE | APPR. | REVISION/ACTION TAKEN
1. | 3/13/08 | DAC | 100% SUBMITTAL - FOR REVIEW ONLY
2. | 4/3/08 | DAC | RELEASED FOR BID
3. | 5/9/08 | DAC | ADDENDUM #4
4. | JUNE 08 | DAC | RELEASED FOR CONSTRUCTION
5. | OCT 08 | DAC | FIELD ORDER
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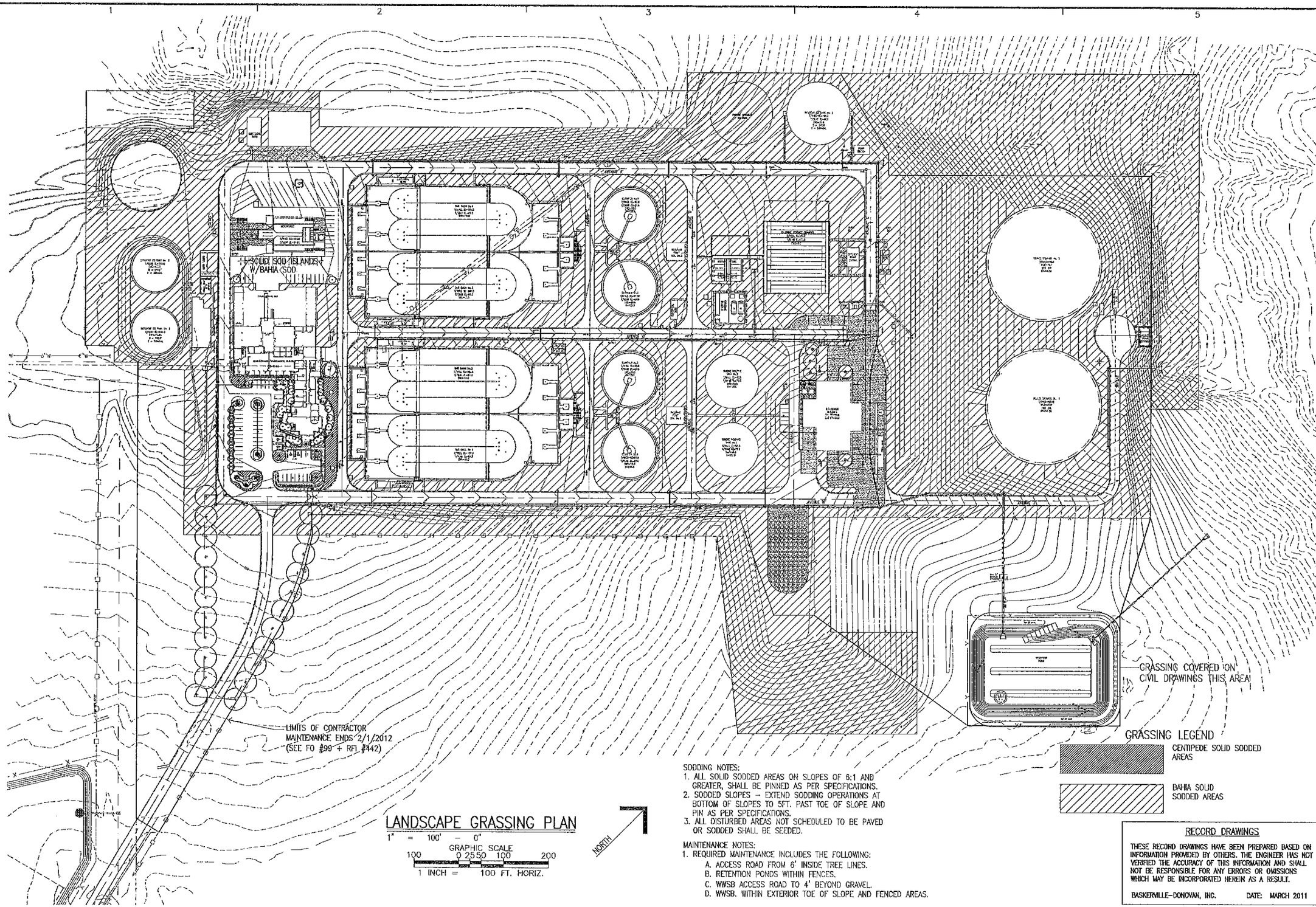
RELEASED FOR CONSTRUCTION
BY DAC DATE JUNE 2008
PROJECT NO: 27934.03
DESIGNED BY: MDL
DRAWN BY: PLG
CHK'D BY: DAC
PROJ. MGR: DAC
DATE: JUNE 2008
OVERALL SITE PLAN
C-135
K:\279\27938.02- ESDC's - CWRF\dwg\C120_C133.dwg, May 11, 2009 - 9:21:22AM, tovarian



LANDSCAPE GRASSING PLAN

1" = 100' – 0"

GRAPHIC SCALE
100 0 25 50 100 200
1 INCH = 100 FT. HORIZ.

SODDING NOTES:
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   C. WWSB ACCESS ROAD TO 4' BEYOND GRAVEL.
   D. WWSB. WITHIN EXTERIOR TOE OF SLOPE AND FENCED AREAS.

RECORD DRAWINGS

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BASKERVILLE-DONOVAN, INC. DATE: MARCH 2011

RECORD DRAWING

BASKERVILLE-DONOVAN, INC.
INNOVATIVE INFRASTRUCTURE SOLUTIONS
PENSACOLA ■ PANAMA CITY ■ TALLAHASSEE ■ MOBILE
440 WEST MAIN STREET
PENSACOLA, FLORIDA 32502 (850)438-9661
ENGINEERING BUSINESS: NO-0000340

DAVID K. HEMPHILL
FL Reg. Landscape Architect #502

ECUA
CENTRAL WATER RECLAMATION FACILITY
ESCAMBIA COUNTY, FLORIDA

NO.	DATE	APPR.	REVISION/ACTION TAKEN
1.	3/15/08	DAC	100% SUBMITTAL – FOR REVIEW ONLY
2.	4/3/08	DAC	RELEASED FOR BID
3.	JUNE 08	DAC	RELEASED FOR CONSTRUCTION
4.	MARCH 2011	DAC	RECORD DRAWING

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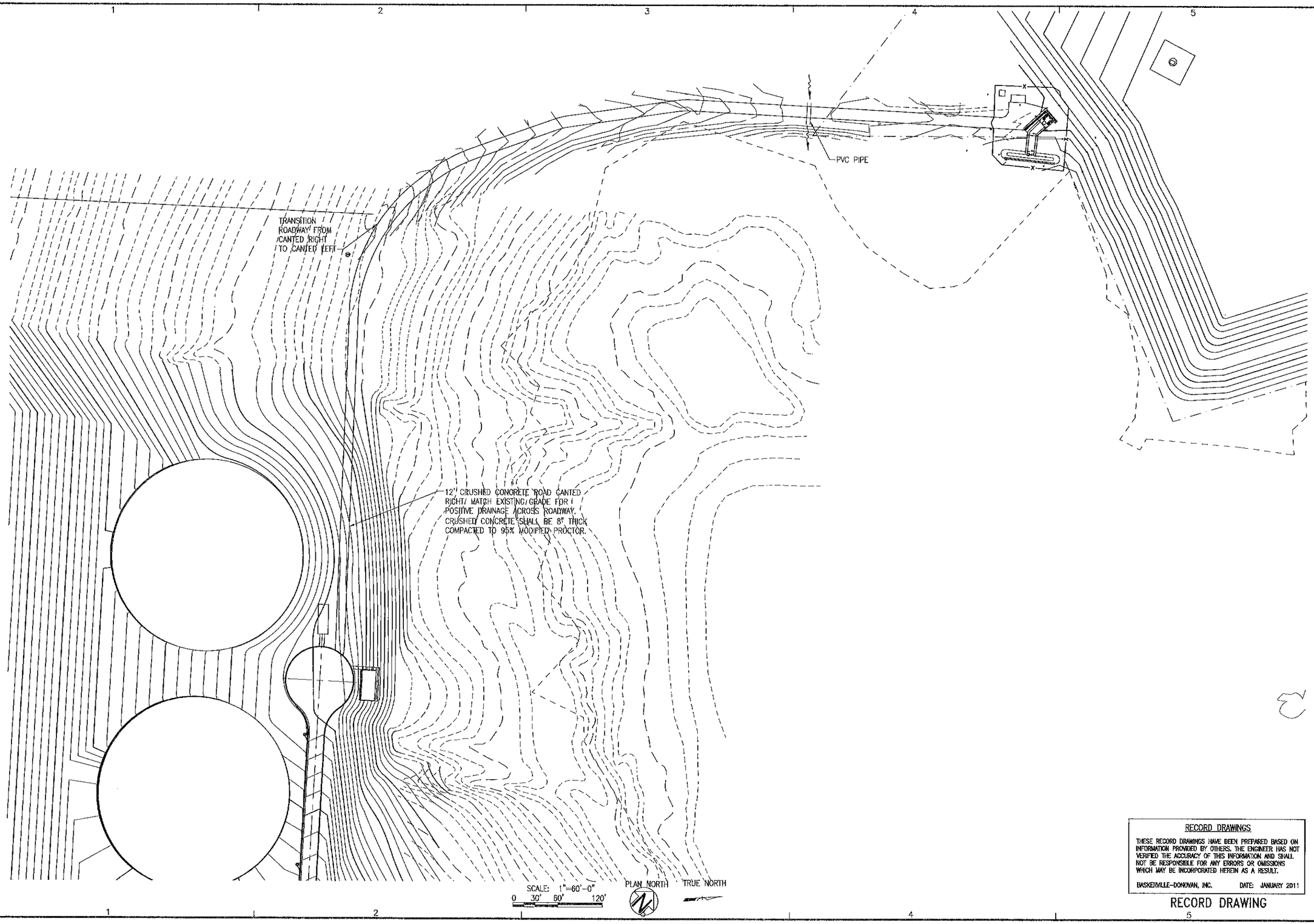
PROJECT NO: 27934.03
DESIGNED BY: LGW
DRAWN BY: LGW
CHK'D BY: LGW
PROJ. MGR: DAC
DATE: FEBRUARY 2011

RELEASED FOR CONSTRUCTION
BY: DAC DATE JUNE 2008

LANDSCAPE GRASSING PLAN

L-108

K:\279\27938.02- ESDC's - CWRF\dwg\021408 Landscape 2.dwg, Apr 01, 2011 - 7:30:07AM, toverton



RECORD DRAWINGS

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BASKERVILLE-DONOVAN, INC. DATE: JANUARY 2011

RECORD DRAWING

BASKERVILLE-DONOVAN, INC.
INNOVATIVE INFRASTRUCTURE SOLUTIONS
PENSACOLA ■ PANAMA CITY ■ TALLAHASSEE ■ MOBILE
449 WEST MAIN STREET
PENSACOLA, FLORIDA 32502 (850)438-9661
ENGINEERING BUSINESS: EB-0000340

David A. Carr, P.E.
FL Reg. Engineer #48624

ECUA
CENTRAL WATER
RECLAMATION FACILITY
ESCAMBIA COUNTY, FLORIDA

NO.	DATE	APPR.	REVISION/ACTION TAKEN
1	MAY 10	DAC	SHEET ADDED TO SHOW ROAD
2	JAN 11	DAC	RECORD DRAWING

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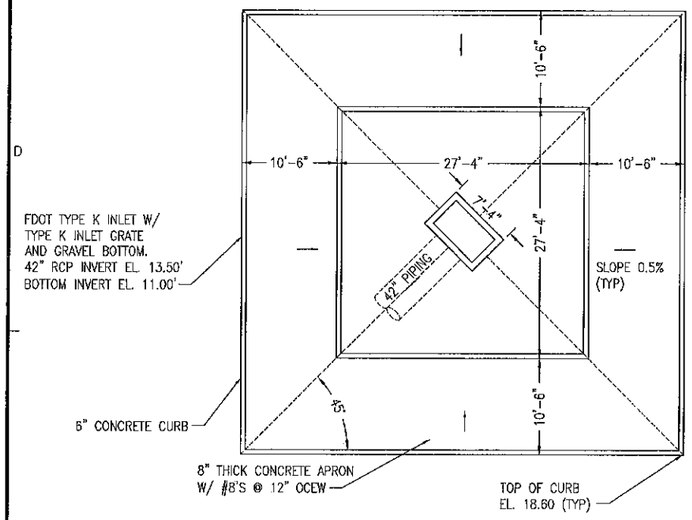
RELEASED FOR CONSTRUCTION
BY DAC DATE OCT 2010

PROJECT NO: 27934.03
DESIGNED BY: MDL
DRAWN BY: PLG
CHK'D BY: DAC
PROJ. MGR: DAC
DATE: JANUARY 2011

WET WEATHER STORAGE POND

C-130a

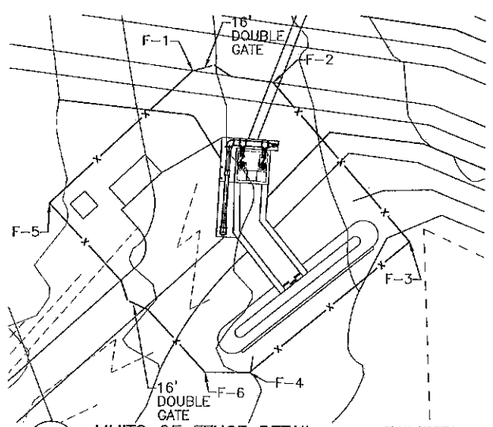
K:\279\27938.02- ESDC's - CWRF\dwg\C127_C131.dwg, Jan 27, 2011 - 5:22:54PM, lgraham



C1 WWSB INLET SW-3

SCALE: 1/8"=1'-0" 0 2' 4' 8' 16'

NOTE:
STORMWATER FROM OUTSIDE OF THE BERM IS EXCLUDED FROM ENTERING THE WWSB AS A CONDITION OF IT'S AUTHORITY TO OPERATE UNDER WATER MANAGEMENT DISTRICT RULES.



A1 LIMITS OF FENCE DETAIL

SCALE: 1"=30'-0" 0 15' 30' 60'

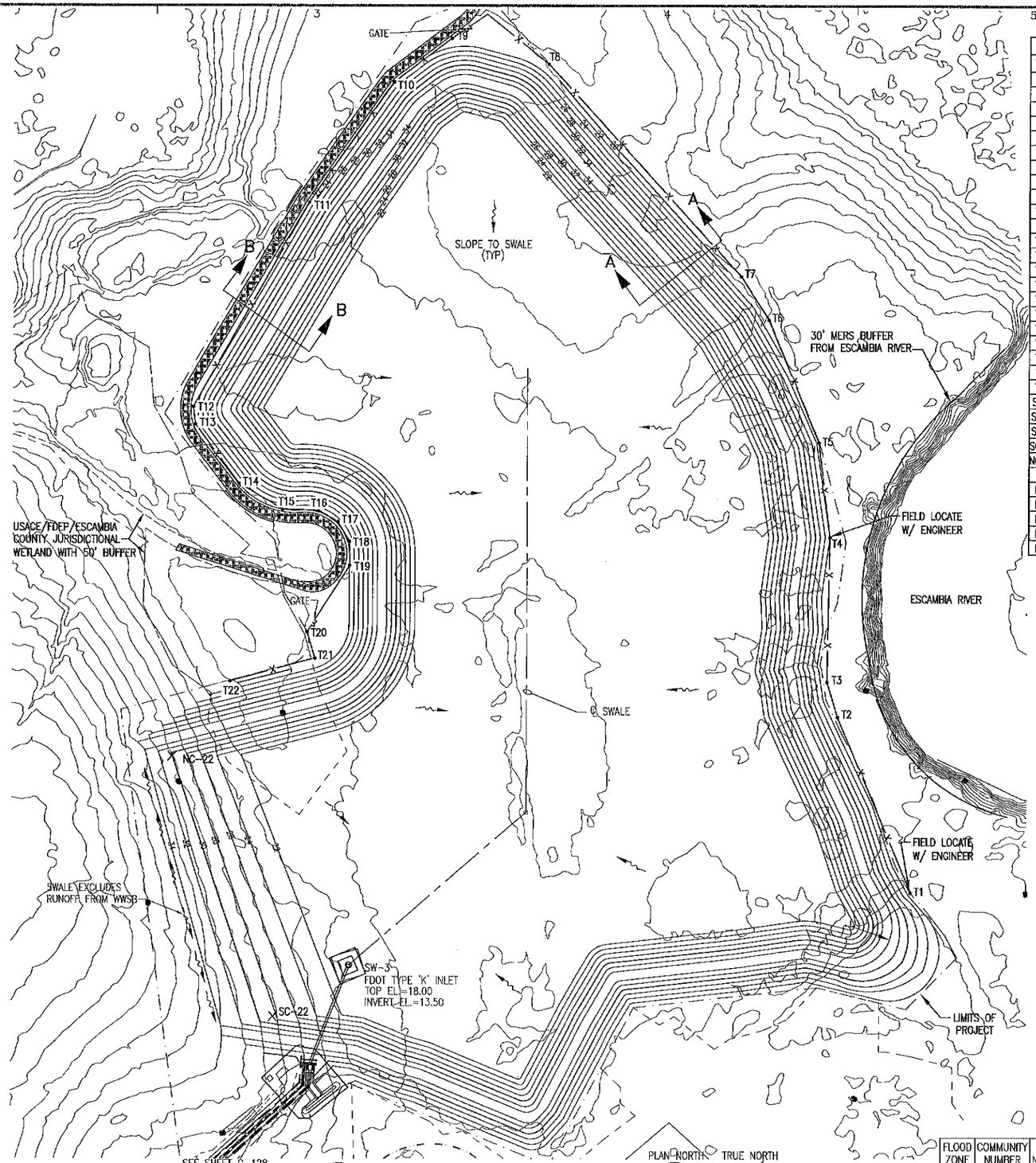
PLAN NORTH

RECORD DRAWINGS

THESE RECORD DRAWINGS HAVE 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.

BASKERVILLE-DONOVAN, INC. DATE: JANUARY 2011

RECORD DRAWING



A2 WET WEATHER STORAGE POND

SCALE: 1"=100'-0" 0 50' 100' 200'

FENCE COORDINATES		
TAG	NORTHING	EASTING
T1	596244.32	1100426.89
T2	596544.05	1100301.00
T3	596604.05	1100283.03
T4	596850.59	1100287.32
T5	597012.71	1100268.09
T6	597221.86	1100181.51
T7	597296.26	1100133.36
T8	597658.18	1099802.02
T9	597702.34	1099636.03
T10	597627.56	1099536.94
T11	597422.29	1099392.86
T12	597072.71	1099196.46
T13	597042.84	1099200.30
T14	596941.34	1099274.80
T15	596897.92	1099348.58
T16	596895.87	1099411.51
T17	596876.47	1099443.47
T18	596842.96	1099463.15
T19	596802.01	1099463.62
T20	596688.50	1099391.42
T21	596643.60	1099404.98
T22	596604.34	1099260.16
SW-1	597138.24	1099767.64
SW-2	596380.71	1099767.36
SW-3	596118.61	1099463.53
SC-22	596035.79	1099452.94
NC-22	596478.87	1099280.00
F-1	595982.17	1099375.43
F-2	595977.50	1099408.49
F-3	595935.22	1099447.80
F-4	595859.35	1099399.57
F-5	595928.08	1099317.24
F-6	595859.35	1099381.18

FLOOD ZONE	COMMUNITY NUMBER	MAP NUMBER	PANEL NUMBER	SUFFIX	MAP REV DATE
AE	120080	12033C	0285	G	SEPT. 29, 2006

BASKERVILLE-DONOVAN, INC.
INNOVATIVE INFRASTRUCTURE SOLUTIONS
PENSACOLA ■ PANAMA CITY ■ TALLAHASSEE ■ MOBILE
449 WEST MAIN STREET
PENSACOLA, FLORIDA 32502 (850)438-9661
ENGINEERING BUSINESS: EB-0000940

David A. Corr, P.E.
FL. Reg. Engineer #48624

ECUA
CENTRAL WATER
RECLAMATION FACILITY

ESCAMBIA COUNTY, FLORIDA

NO.	DATE	APPR.	REVISION/ACTION TAKEN
1	2/8/10	DAC	WWSB PUMP STATION CHANGE ORDER
2	3/15/10	DAC	ADDED GRADING & COORDINATES
3	3/22/10	DAC	REVISED SW-3
4	4/8/10	DAC	WWSB PS CHANGE ORDER
5	JAN 11	DAC	RECORD DRAWING

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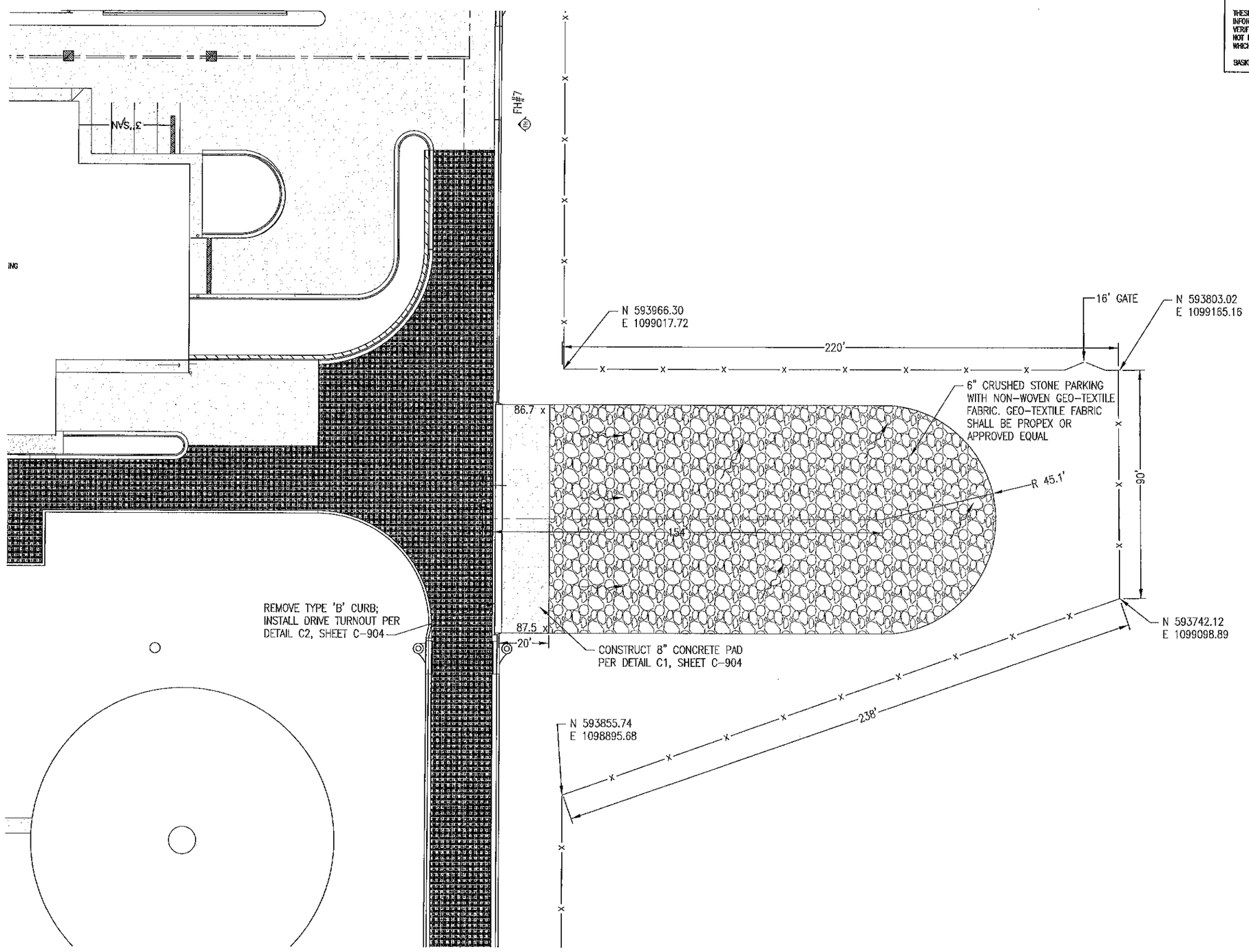
RELEASED FOR CONSTRUCTION
BY DAC DATE JUNE 2008

PROJECT NO: 27938.02
DESIGNED BY: MDL
DRAWN BY: PLG
CHK'D BY: DAC
PROJ. MGR: DAC
DATE: NOV 2009

WET WEATHER
STORAGE POND

C-130

K:\279\27938.02- ESDC's - CWRF\dwg\C127_C131.dwg, Feb 11, 2011 - 1:58:58PM, toverton



A1 TRUCK PARKING SITE PLAN

SCALE: 1"=20'-0" 0 10' 20' 40'

PLAN NORTH TRUE NORTH

RECORD DRAWINGS

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BASKERVILLE-DONOVAN, INC. DATE: JANUARY 2011

RECORD DRAWING

BASKERVILLE-DONOVAN, INC.
INNOVATIVE INFRASTRUCTURE SOLUTIONS
PENSACOLA ■ PANAMA CITY ■ TALLAHASSEE ■ MOBILE
449 WEST MAIN STREET
PENSACOLA, FLORIDA 32502 (850)433-9461
ENGINEERING BUSINESS: EB-0000340

David A. Carr, P.E.
FL Reg. Engineer #48024

ECUA
CENTRAL WATER
RECLAMATION FACILITY

ESCAMBIA COUNTY, FLORIDA

NO.	DATE	APPR.	REVISION/ACTION TAKEN
1.	3/13/08	DAC	100% SUBMITTAL - FOR REVIEW ONLY
2.	4/3/08	DAC	RELEASED FOR BID
3.	5/9/08	DAC	ADDENDUM #4
4.	JUNE 08	DAC	RELEASED FOR CONSTRUCTION
5.	APRIL 09	DAC	CHANGE ORDER
6	JAN 11	DAC	RECORD DRAWING

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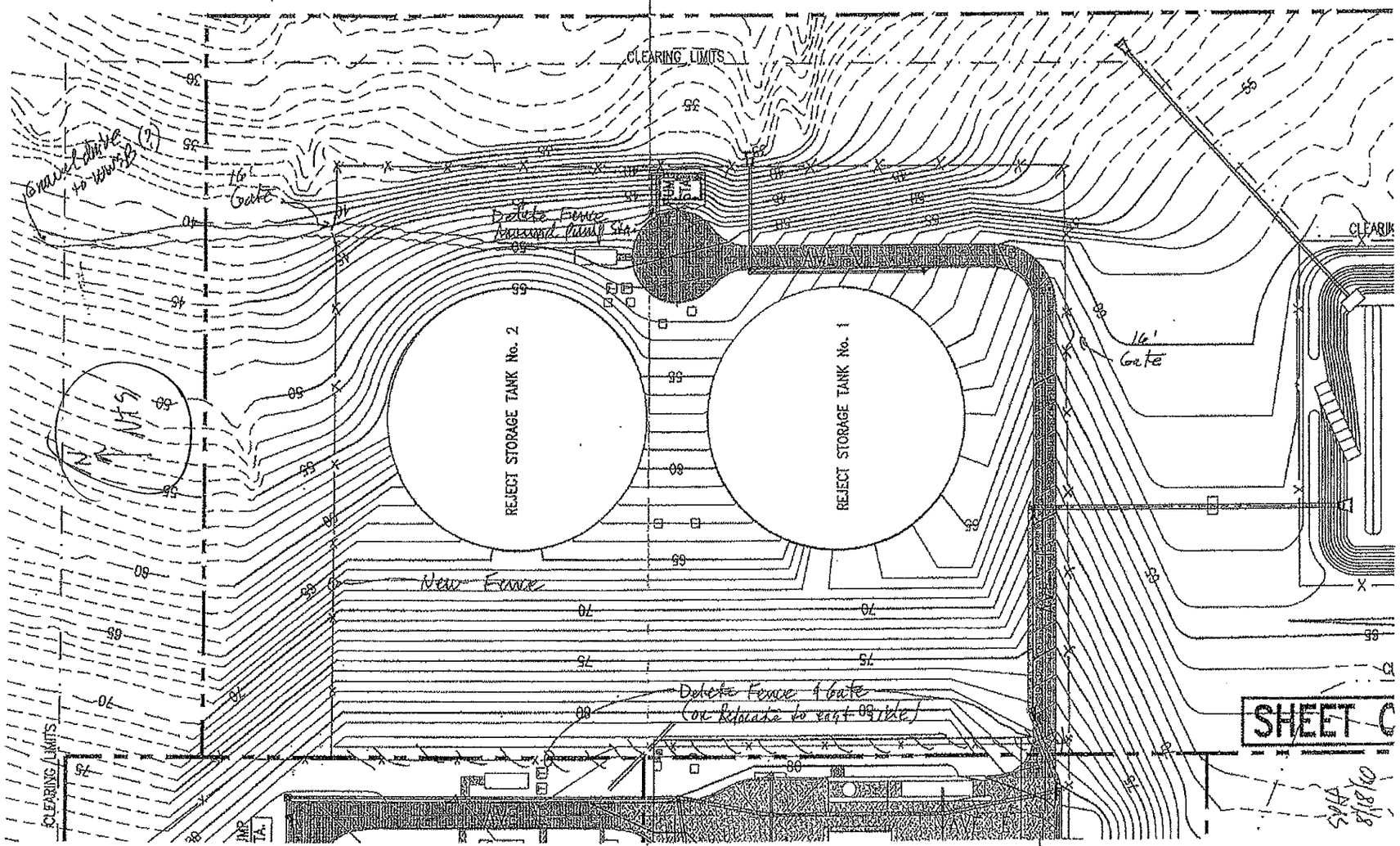
RELEASED FOR CONSTRUCTION
BY DAC DATE JUNE 2008

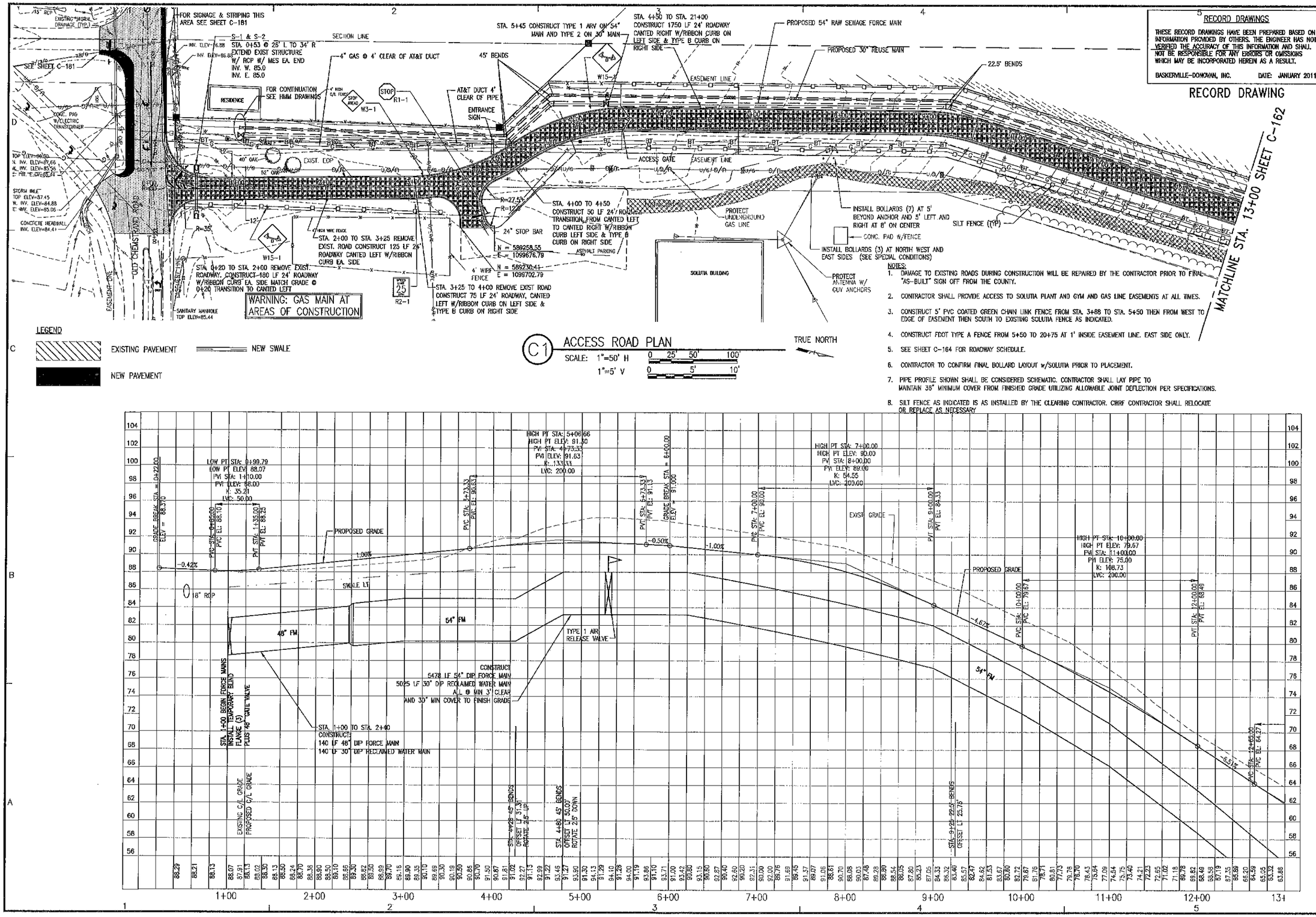
PROJECT NO: 27934.03
DESIGNED BY: JSP
DRAWN BY: DLB
CHK'D BY: DAC
PROJ. MGR: DAC
DATE: JANUARY 2011

TRUCK PARKING
SITE PLAN

C-126A

K:\279\27938.02- ESDC's - CWRF\dwg\C120_C126.dwg, Jan 27, 2011 - 5:17:26PM, lgraham


CLEARING LIMITS
REJECT STORAGE TANK No. 2
REJECT STORAGE TANK No. 1
16' Gate
Delete Fence
New Fence
Delete Fence & Gate
(or Relocate to east side)
SHEET C



RECORD DRAWINGS

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BASKERVILLE-DONOVAN, INC. DATE: JANUARY 2011

RECORD DRAWING

NOTES:

1. DAMAGE TO EXISTING ROADS DURING CONSTRUCTION WILL BE REPAIRED BY THE CONTRACTOR PRIOR TO FINAL "AS-BUILT" SIGN OFF FROM THE COUNTY.
2. CONTRACTOR SHALL PROVIDE ACCESS TO SOLUTIA PLANT AND GYM AND GAS LINE EASEMENTS AT ALL TIMES.
3. CONSTRUCT 5' PVC COATED GREEN CHAIN LINK FENCE FROM STA. 3+88 TO STA. 5+50 THEN FROM WEST TO EDGE OF EASEMENT THEN SOUTH TO EXISTING SOLUTIA FENCE AS INDICATED.
4. CONSTRUCT FDOT TYPE A FENCE FROM 5+50 TO 20+75 AT 1' INSIDE EASEMENT LINE. EAST SIDE ONLY.
5. SEE SHEET C-164 FOR ROADWAY SCHEDULE.
6. CONTRACTOR TO CONFIRM FINAL BOLLARD LAYOUT w/SOLUTIA PRIOR TO PLACEMENT.
7. PIPE PROFILE SHOWN SHALL BE CONSIDERED SCHEMATIC. CONTRACTOR SHALL LAY PIPE TO MAINTAIN 36" MINIMUM COVER FROM FINISHED GRADE UTILIZING ALLOWABLE JOINT DEFLECTION PER SPECIFICATIONS.
8. SILT FENCE AS INDICATED IS AS INSTALLED BY THE CLEARING CONTRACTOR. CWRF CONTRACTOR SHALL RELOCATE OR REPLACE AS NECESSARY

BASKERVILLE-DONOVAN, INC.
INNOVATIVE INFRASTRUCTURE SOLUTIONS
PENSACOLA ■ PANAMA CITY ■ TALLAHASSEE ■ MOBILE
440 WEST MAIN STREET
PENSACOLA, FLORIDA 32502 (850)434-8681
ENGINEERING BUSINESS: EB-0000940
David A. Carr, P.E.
FL Reg. Engineer #48624

ECUA
CENTRAL WATER
RECLAMATION FACILITY
ESCAMBIA COUNTY, FLORIDA

NO.	DATE	APPR.	REVISION/ACTION TAKEN
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3.	5/2/08	DAC	ADDENDUM #3
4.	JUNE 08	DAC	RELEASED FOR CONSTRUCTION
5	JAN 11	DAC	RECORD DRAWING

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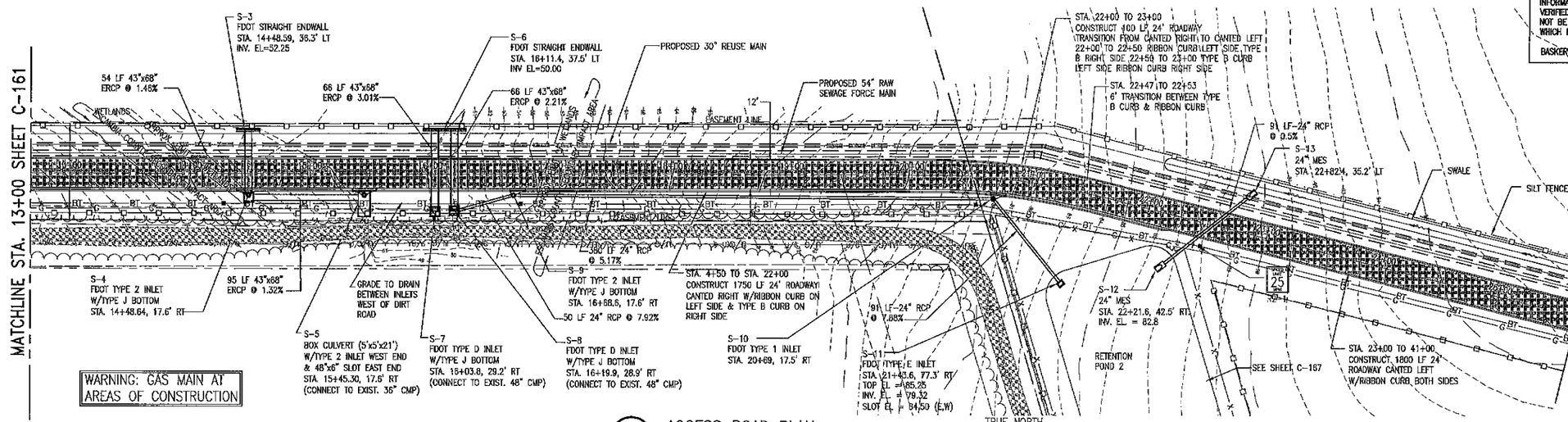
PROJECT NO: 27934.03
DESIGNED BY: DAC
DRAWN BY: RGG
CHK'D BY: DAC
PROJ. MGR: DAC
DATE: JANUARY 2011

RELEASED FOR CONSTRUCTION
BY DAC DATE JUNE 2008

SITE ACCESS ROAD
PLAN & PROFILE
STA. 0+00
THRU STA. 13+00

C-161

K:\279\27936.02- ESDC's - CWRF\dwg\C160_C171.dwg, Oct 14, 2011 - 11:53:49AM, toverton



RECORD DRAWINGS

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BASKERVILLE-DONOVAN, INC. DATE: JANUARY 2011

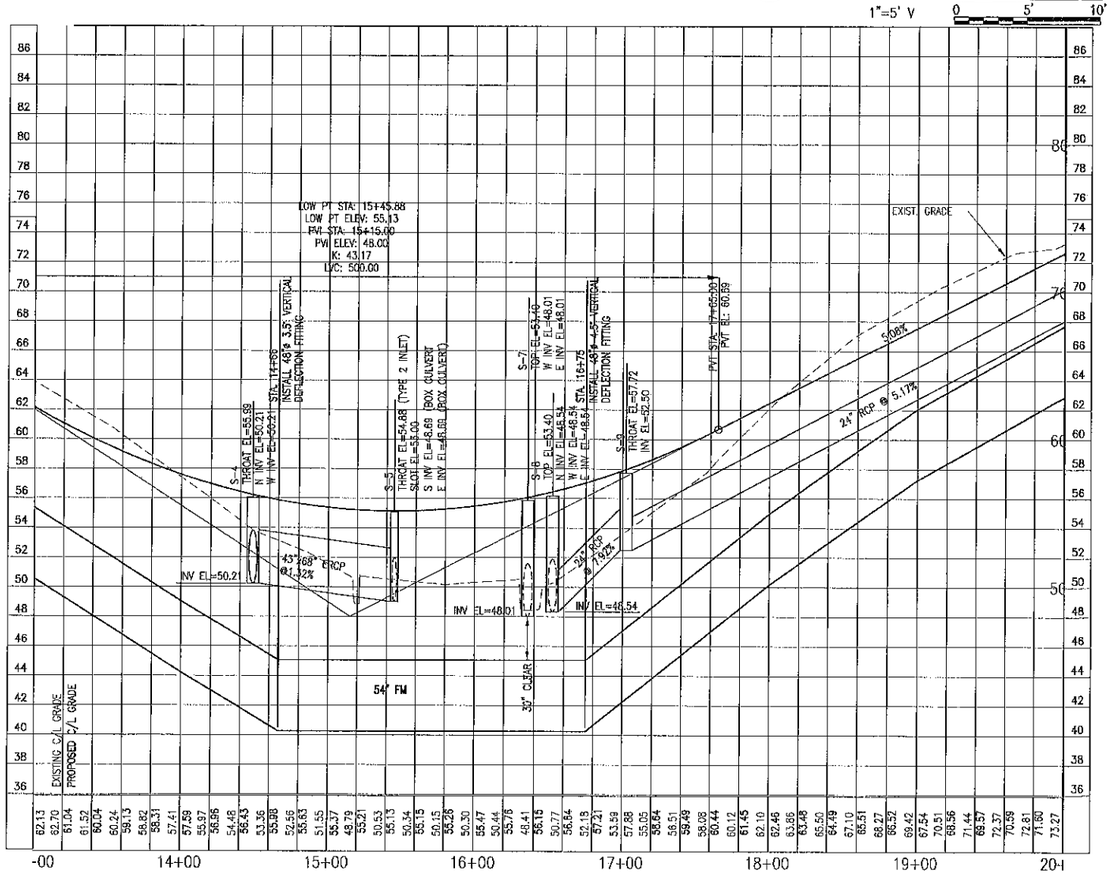
RECORD DRAWING

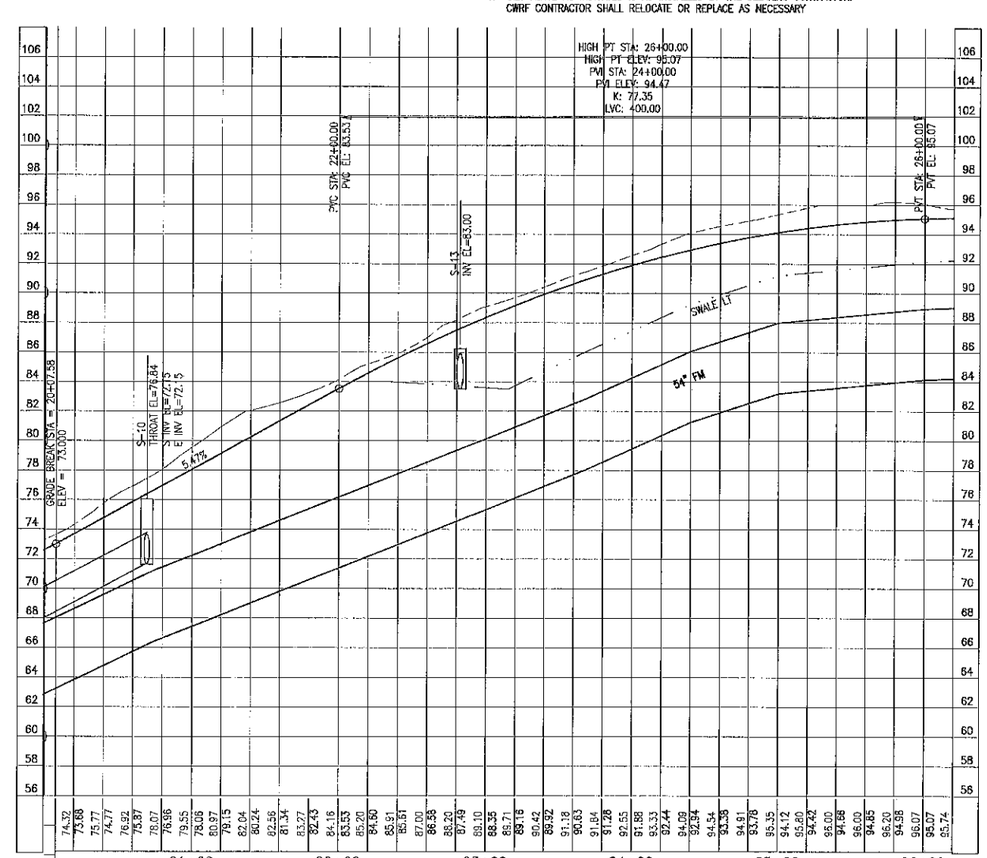
C1 ACCESS ROAD PLAN

SCALE: 1"=50' H (0, 25', 50', 100')
1"=5' V (0, 5', 10')

NOTE:

1. SILT FENCE AS INDICATED IS AS INSTALLED BY THE CLEARING CONTRACTOR. CWRF CONTRACTOR SHALL RELOCATE OR REPLACE AS NECESSARY





BASKERVILLE-DONOVAN, INC.
ENGINEERING ■ PLANNING ■ ENVIRONMENTAL ■ INFRASTRUCTURE SOLUTIONS
PENSACOLA ■ PANAMA CITY ■ TALLAHASSEE ■ MOBILE
449 WEST MAIN STREET
PENSACOLA, FLORIDA 32502 (850)469-9811
ENGINEERING BUSINESS: EB-0006940

David A. Carr, P.E.
FL Reg. Engineer #46624

ECUA
CENTRAL WATER
RECLAMATION FACILITY

ESCAMBIA COUNTY, FLORIDA

NO.	DATE	APPR.	REVISION/ACTION TAKEN
1.	3/13/08	DAC	100% SUBMITTAL - FOR REVIEW ONLY
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3.	JUNE 08	DAC	RELEASED FOR CONSTRUCTION
4.	9/10/08	DAC	REVISED
5.	OCT 08	DAC	FIELD ORDER
6.	JAN 11	DAC	RECORD DRAWING

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PROJECT NO: 27934.03
DESIGNED BY: DAC
DRAWN BY: RGG
CHK'D BY:
PROJ. MGR: DAC
DATE: JANUARY 2011

RELEASED FOR CONSTRUCTION
BY DAC DATE JUNE 2008

SITE ACCESS ROAD
PLAN & PROFILE
STA. 13+00
THRU STA. 26+00

C-162

K:\279\27936.02- ESDC's - CWRF\dwg\C160_C171.dwg, Mar 30, 2011 - 10:09:21AM, taverton

RECORD DRAWINGS

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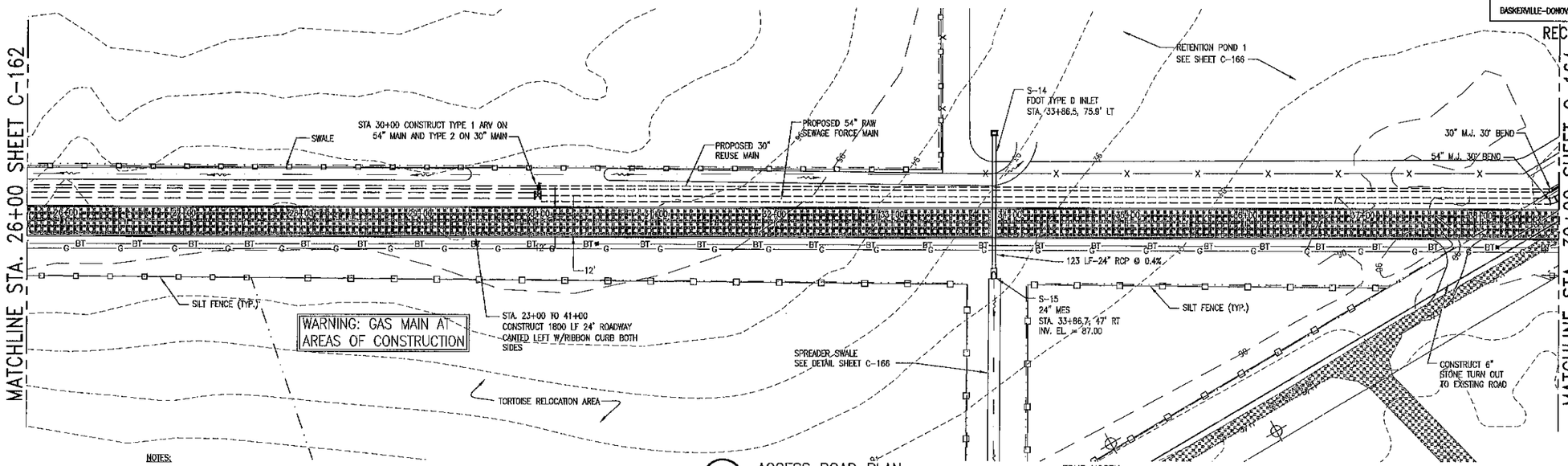
BASKERVILLE-DONOVAN, INC. DATE: JANUARY 2011

RECORD DRAWING



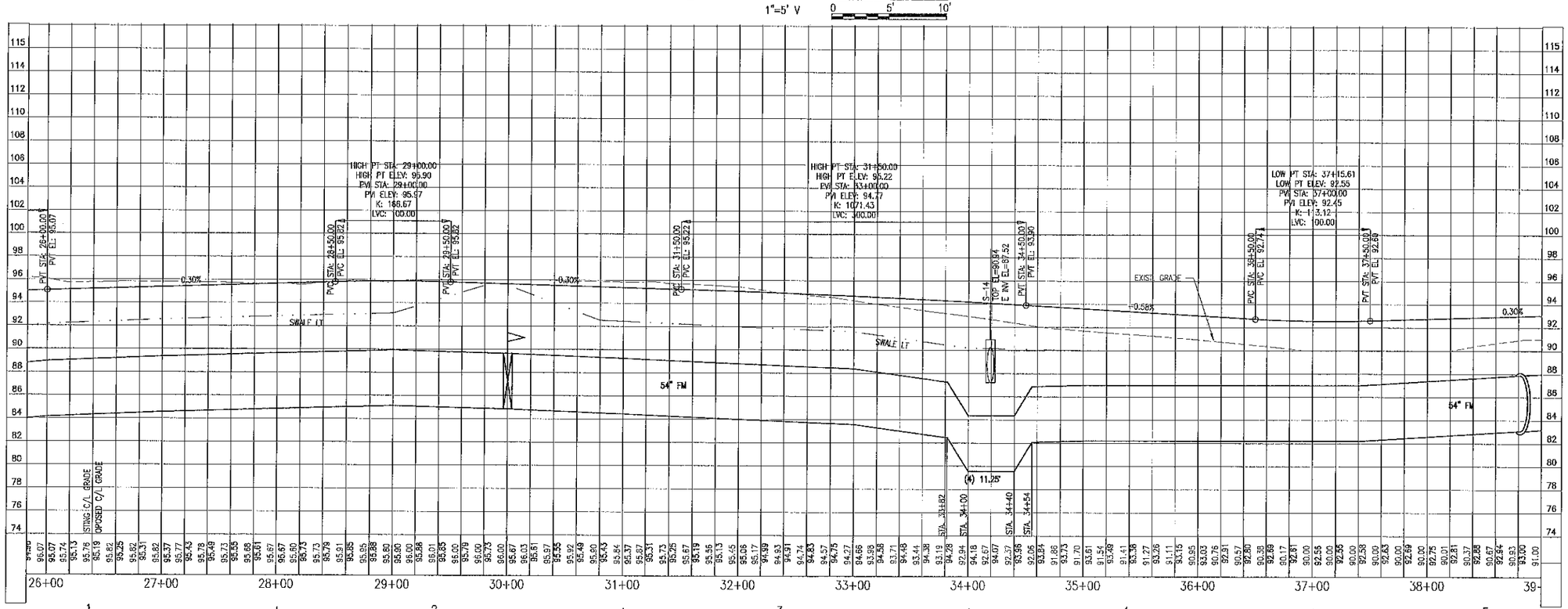
NOTES:

1. SILT FENCE AS INDICATED IS AS INSTALLED BY THE CLEARING CONTRACTOR. CWRF CONTRACTOR SHALL RELOCATE OR REPLACE AS NECESSARY.

C1 ACCESS ROAD PLAN

SCALE: 1"=50' H 0 25' 50' 100'

1"=5' V 0 5' 10'



BASKERVILLE-DONOVAN, INC.
INNOVATIVE INFRASTRUCTURE SOLUTIONS
PENSACOLA ■ PANAMA CITY ■ TALLAHASSEE ■ MOBILE
446 WEST MAIN STREET
PENSACOLA, FLORIDA 32502 (850)438-9661
ENGINEERING BUSINESS: EB-0000340

David A. Carr, P.E.
FL Reg. Engineer #48624

ECUA
CENTRAL WATER
RECLAMATION FACILITY
ESCAMBIA COUNTY, FLORIDA

NO.	DATE	APPR.	REVISION/ACTION TAKEN
1.	3/13/08	DAC	100% SUBMITTAL - FOR REVIEW ONLY
2.	4/3/08	DAC	RELEASED FOR BID
3.	5/2/08	DAC	ADDENDUM #3
4.	JUNE 08	DAC	RELEASED FOR CONSTRUCTION
5.	9/10/08	DAC	REVISED
6	JAN 11	DAC	RECORD DRAWING

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RELEASED FOR CONSTRUCTION
BY DAC DATE JUNE 2008

PROJECT NO: 27934.03
DESIGNED BY: DAC
DRAWN BY: RGG
CHK'D BY:
PROJ. MGR: DAC
DATE: JANUARY 2011

SITE ACCESS ROAD
PLAN & PROFILE
STA. 26+00 THRU
STA. 39+00

C-163

K:\279\27938.02- ESDC's - CWRF\dwg\C160_C171.dwg, Mar 30, 2011 - 10:10:29AM, toverton

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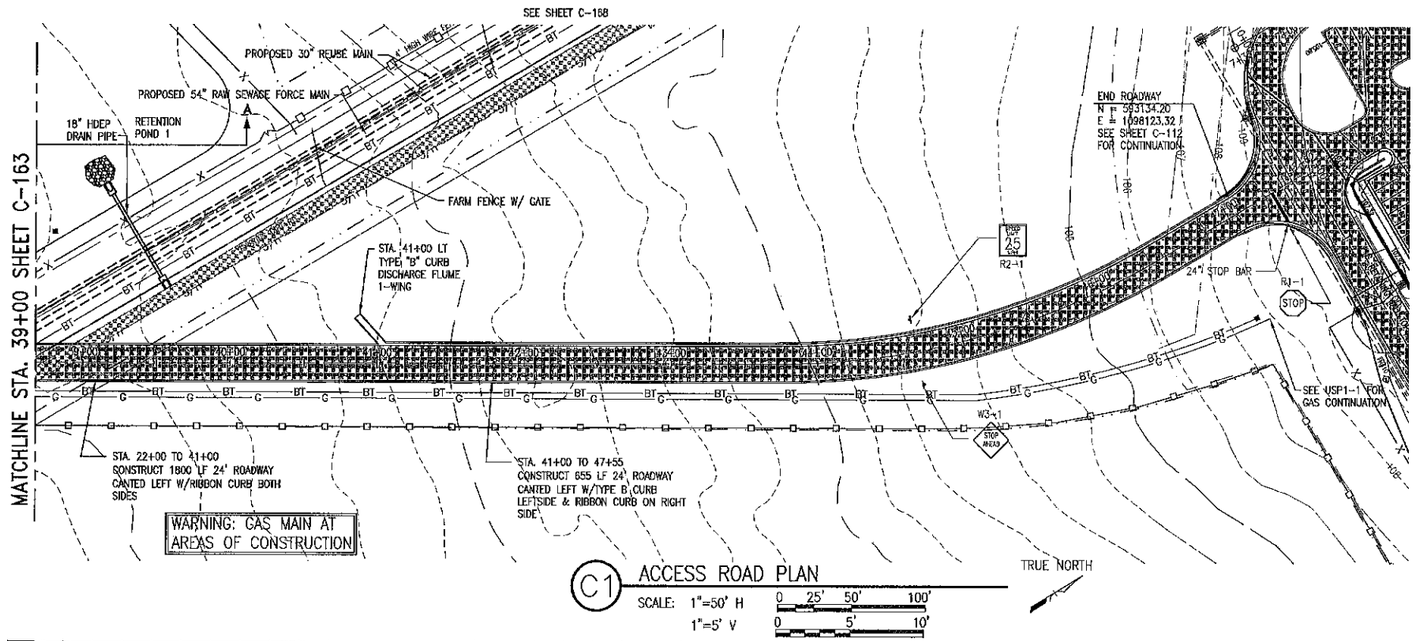
BASKERVILLE-DONOVAN, INC. DATE: JANUARY 2011

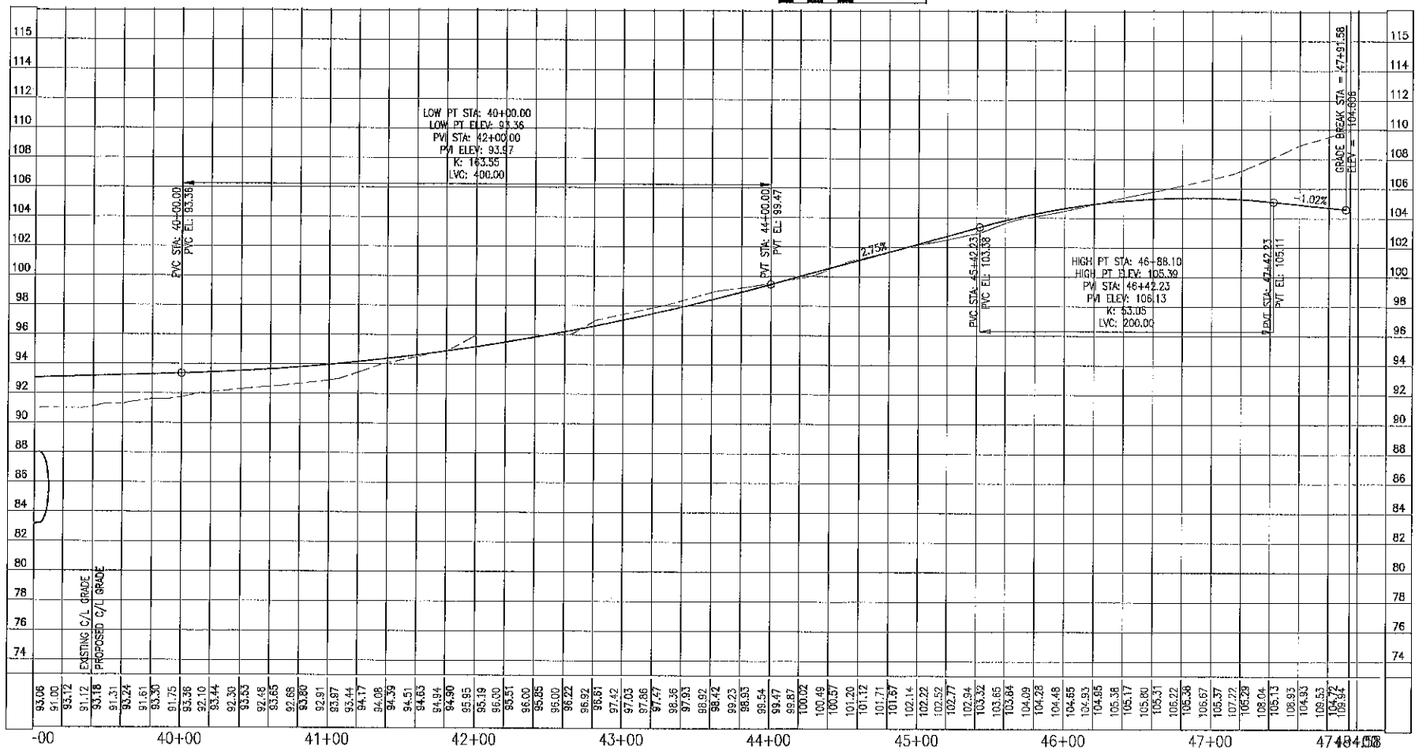
RECORD DRAWING

ROADWAY SCHEDULE			
	BASE	ASPHALT	FRICTION
STA. 0+20 TO 1+00	12" SAND CLAY	3" SP 9.5	1"
STA. 1+00 TO 47+00	6" SAND CLAY	2" SP 9.5	1"
STA. 47+00 TO 47+55	12" SAND CLAY	3" SP 9.5	1"



C1 ACCESS ROAD PLAN

SCALE: 1"=50' H (0, 25', 50', 100')
1"=5' V (0, 5', 10')



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449 WEST MAIN STREET
PENSACOLA, FLORIDA 32502 (850)438-9661
ENGINEERING BUSINESS: EB-0000540

David A. Carr, P.E.
FL Reg. Engineer #46824

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RECLAMATION FACILITY

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5.	9/10/08	DAC	REVISED
6.	JAN 11	DAC	RECORD DRAWING

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BY DAC DATE JUNE 2008

PROJECT NO: 27934.03
DESIGNED BY: DAC
DRAWN BY: RGG
CHK'D BY:
PROJ. MGR: DAC
DATE: JANUARY 2011

SITE ACCESS ROAD
PLAN & PROFILE
STA. 39+00 THRU
END

C-164

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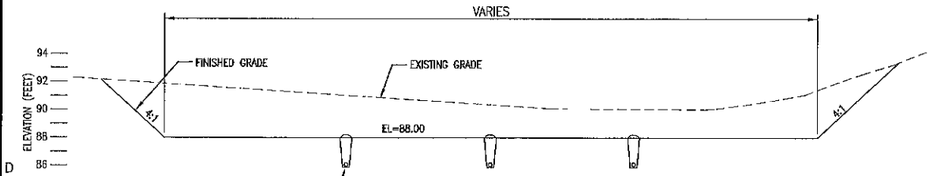
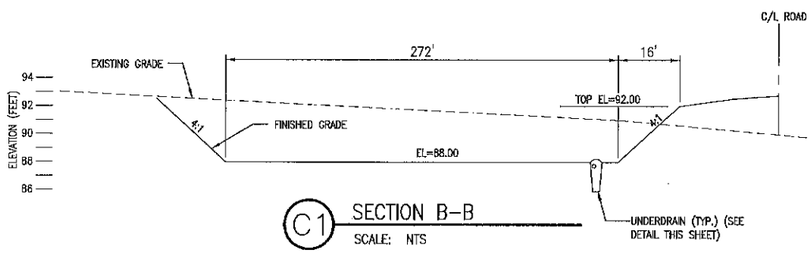
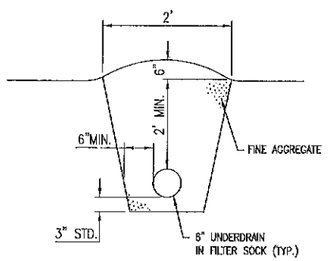


D1 SECTION A–A
SCALE: NTS



C1 SECTION B–B
SCALE: NTS

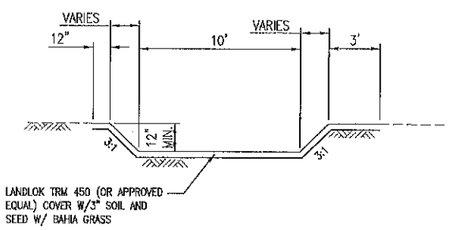


NOTES:

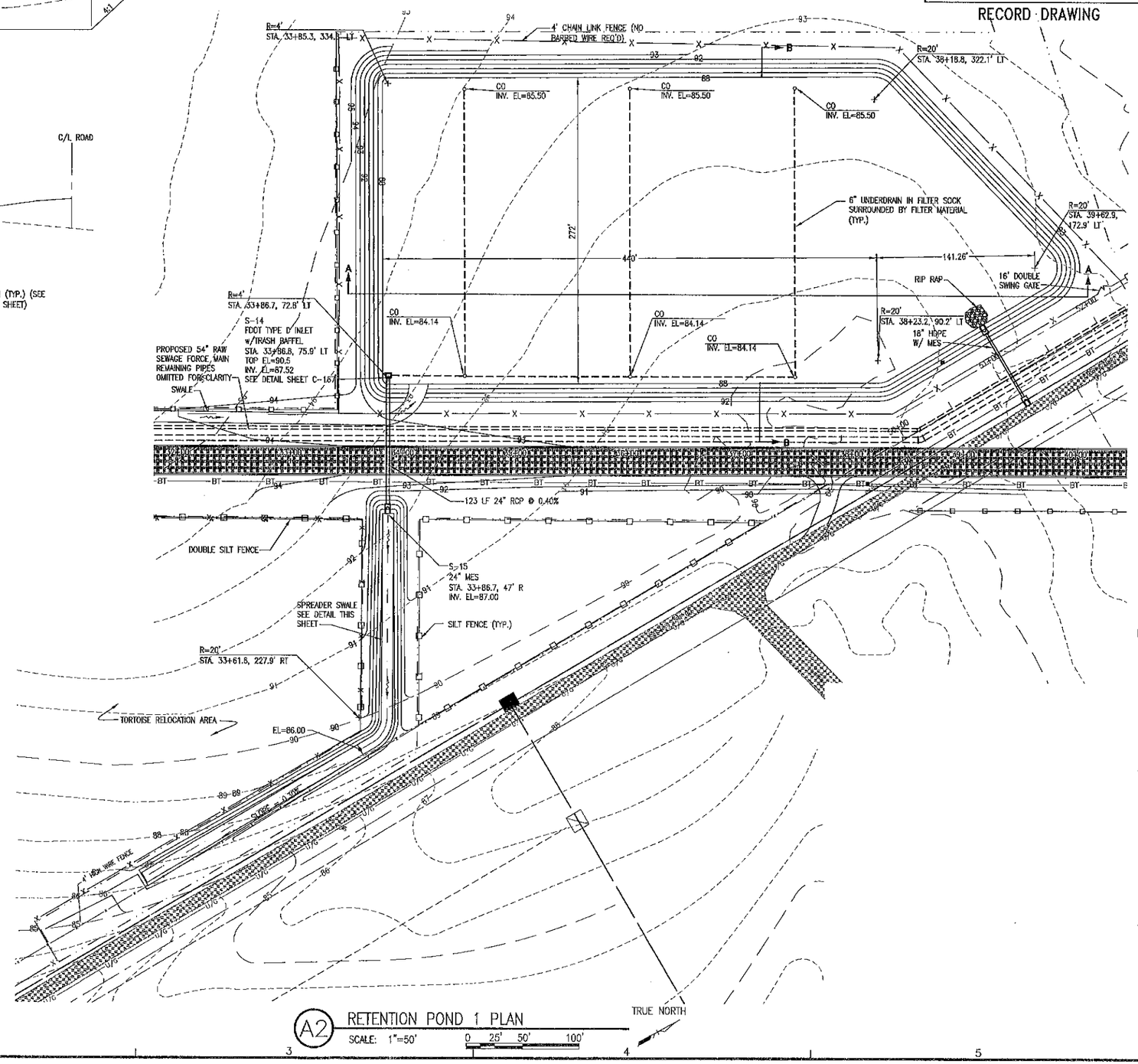
FINE AGGREGATE SHALL MEET THE FOLLOWING SPECIFICATIONS:
1. PERMEABILITY RATE OF 4.0 TO 5.0 FT/HR.
2. LESS THAN 1.0% SILTY CLAY AND ORGANIC MATERIAL.
3. UNIFORM COEFFICIENT OF 1.5 TO 4.0.
4. EFFECTIVE GRAIN SIZE OF 0.2 TO 0.55mm IN DIAMETER.
5. CONTRACTOR TO SUBMIT ANALYSIS OF FILTER MEDIA TO CERTIFY COMPLIANCE OF SET CRITERIA.

B1 6" UNDERDRAIN
SCALE: NTS

NOTE:
LANDLOK TO BE PLACED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS



A1 SPREADER SWALE
NOT TO SCALE



A2 RETENTION POND 1 PLAN
SCALE: 1"=50'
0 25' 50' 100'

RECORD DRAWINGS

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BASKERVILLE-DONOVAN, INC. DATE: JANUARY 2011

RECORD DRAWING

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449 WEST ALGIERS STREET
PENSACOLA, FLORIDA 32502 (850)438-9661
ENGINEERING BUSINESS: EB-0000840

David A. Carr, P.E.
FL Reg. Engineer #48624

ECUA
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RECLAMATION FACILITY

ESCAMBIA COUNTY, FLORIDA

NO.	DATE	APPR.	REVISION/ACTION TAKEN
1.	3/13/08	DAC	100% SUBMITTAL – FOR REVIEW ONLY
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4.	JUNE 08	DAC	RELEASED FOR CONSTRUCTION
5	JAN 11	DAC	RECORD DRAWING

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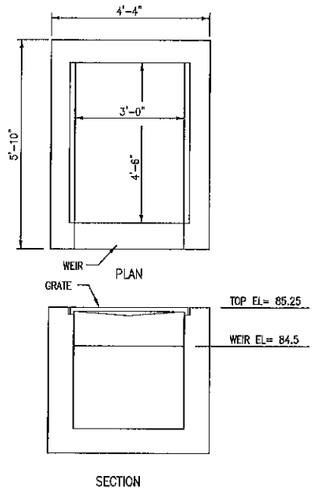
RELEASED FOR CONSTRUCTION
BY DAC DATE JUNE 2008

PROJECT NO: 27934.03
DESIGNED BY: DAC
DRAWN BY: RGB
CHK'D BY:
PROJ. MGR: DAC
DATE: JANUARY 2011

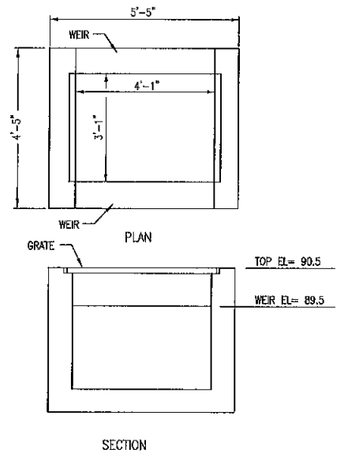
ACCESS ROAD
RETENTION POND 1

C-166

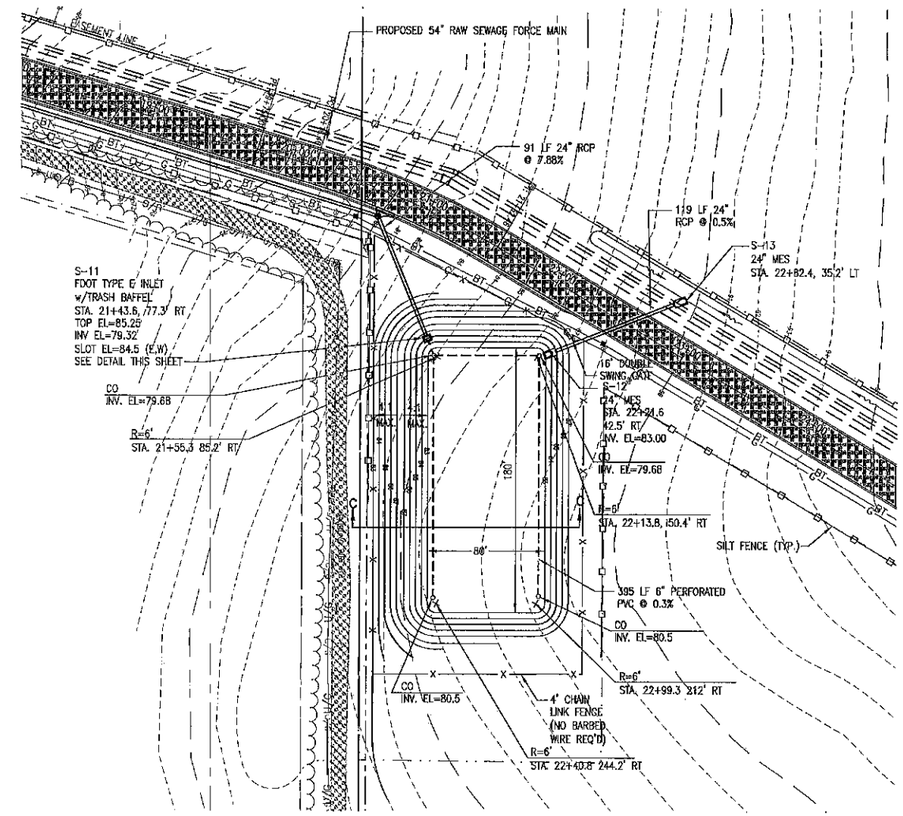
K:\279\27938.02- ESDC's - CWRF\dwg\C160_C171.dwg, Mar 30, 2011 - 10:14:55AM, toverton



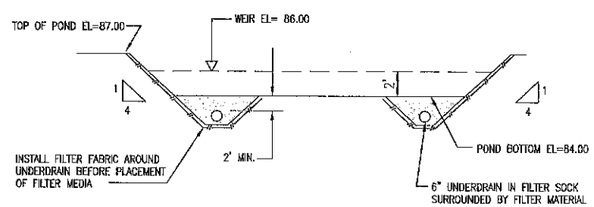
C1 POND 2 OVERFLOW STRUCTURE
SCALE: NTS



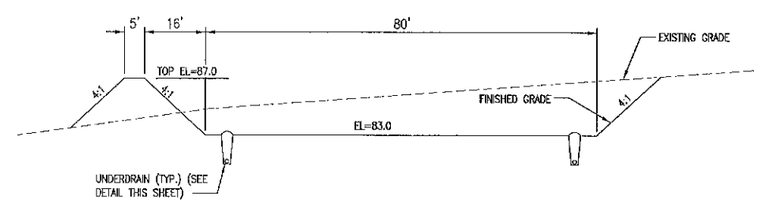
C2 POND 1 OVERFLOW STRUCTURE
SCALE: NTS



B4 RETENTION POND 2 PLAN
SCALE: 1"=50'



A2 RETENTION POND 2 SECTION
SCALE: NTS



A4 SECTION C-C
SCALE: NTS

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BASKERVILLE-DONOVAN, INC. DATE: JANUARY 2011

RECORD DRAWING

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PENSACOLA, FLORIDA 32502 (850)438-9661
ENGINEERING BUSINESS: EB-0000540

David A. Carr, P.E.
FL Reg. Engineer #48624

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ESCAMBIA COUNTY, FLORIDA

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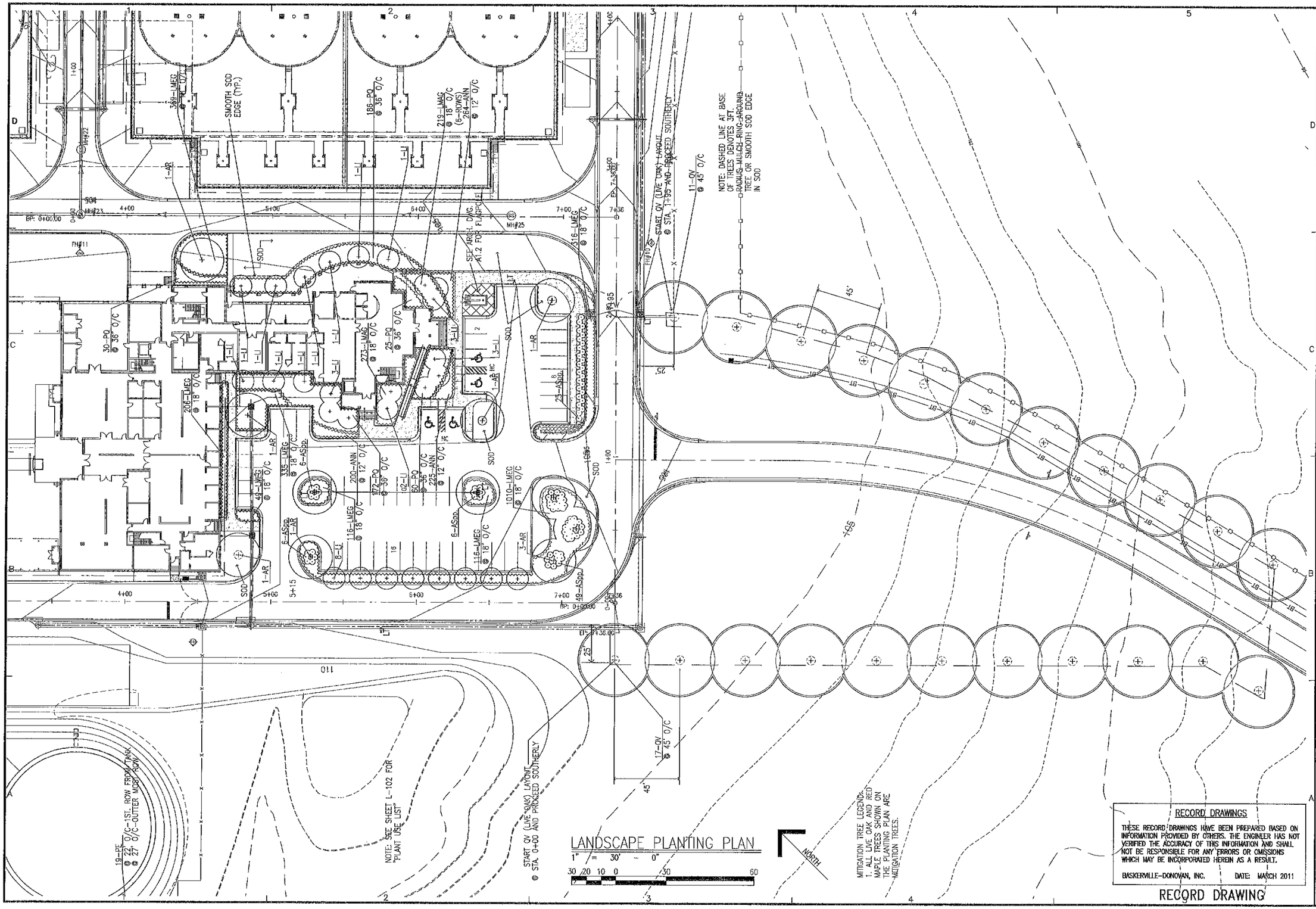
RELEASED FOR CONSTRUCTION
BY DAC DATE JUNE 2008

PROJECT NO: 27934.03
DESIGNED BY: DAC
DRAWN BY: RGG
CHK'D BY:
PROJ. MGR: DAC
DATE: JANUARY 2011

ACCESS ROAD
RETENTION POND 2

C-167

K:\279\27938.02- ESDC's - CWRF\dwg\C160_C171.dwg, Mar 30, 2011 - 10:15:24AM, taverton



BASKERVILLE-DONOVAN, INC.
INNOVATIVE INFRASTRUCTURE SOLUTIONS
PENSACOLA ■ PANAMA CITY ■ TALLAHASSEE ■ MOBILE
449 WEST MAIN STREET
PENSACOLA, FLORIDA 32502 (850)438-9661
ENGINEERING BUSINESS: EB-0000540

DAVID K. HEMPHILL
FL Reg. #0022599
Architect #5527

ECUA
CENTRAL WATER
RECLAMATION FACILITY

ESCAMBIA COUNTY, FLORIDA

NO.	DATE	APPR.	REVISION/ACTION TAKEN
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4.	MARCH 2011	DAC	RECORD DRAWING

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RELEASED FOR CONSTRUCTION
BY DAC DATE JUNE 2008

PROJECT NO: 27934.03
DESIGNED BY: LGW
DRAWN BY: LGW
CHK'D BY: LGW
PROJ. MGR: DAC
DATE: FEBRUARY 2011

LANDSCAPE PLANTING PLAN

L-101

K:\279\27938.02- ESDC's - CWRF\.dwg\021408 Landscape 2.dwg, Apr 01, 2011 - 8:59:42AM, toverton

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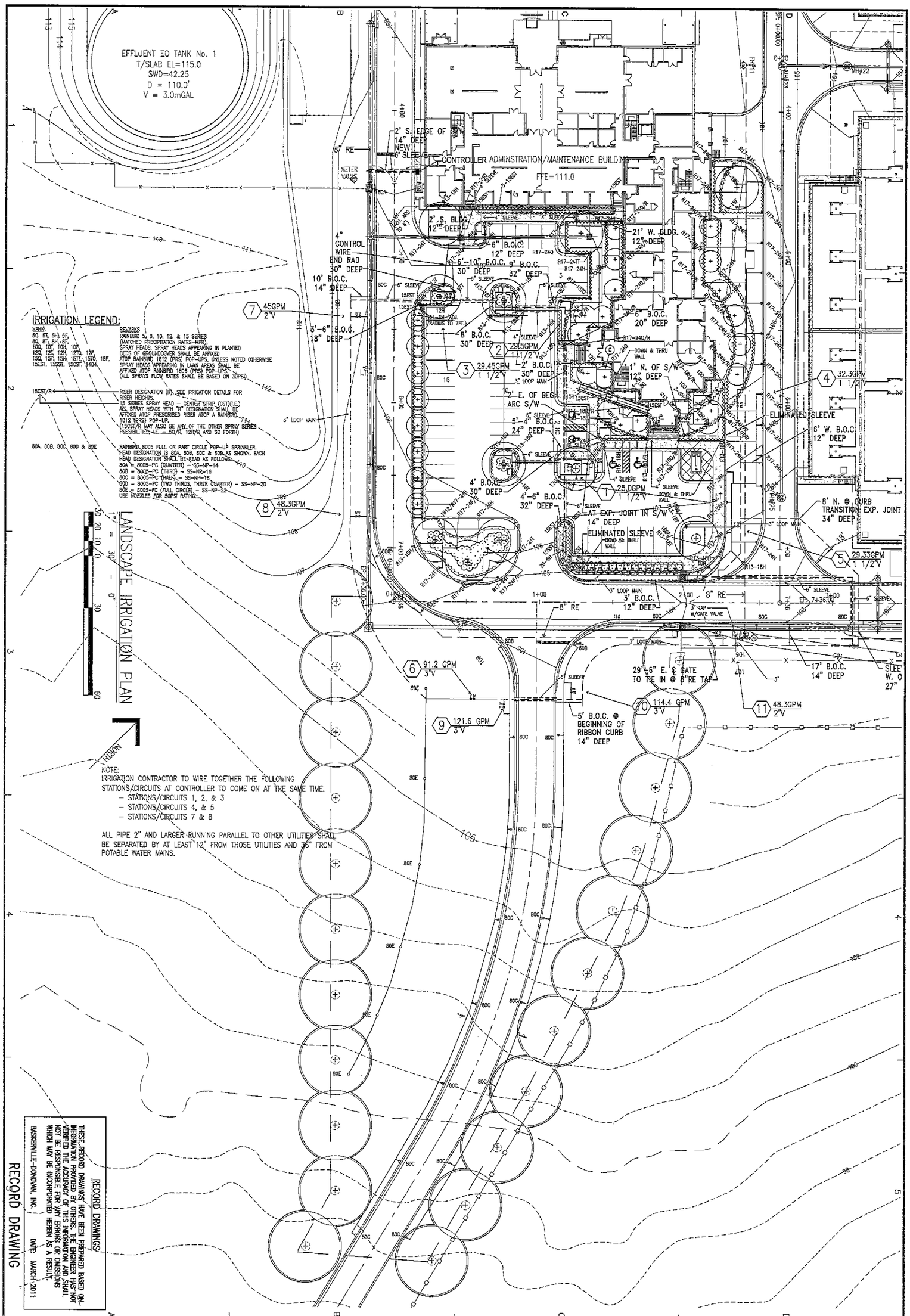

RECORD DRAWING

RECORD DRAWINGS

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BASKERVILLE-DONOVAN, INC. DATE MARCH 2011

L-106

IRRIGATION PLAN

PROJECT NO:	27934.03
DESIGNED BY:	LGW
DRAWN BY:	LGW
CHK'D BY:	LGW
PROJ. MGR:	DAC
DATE:	FEBRUARY 2011

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4	MARCH 2011	DAC	RECORD DRAWING

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RECLAMATION FACILITY

ESCAMBIA COUNTY, FLORIDA

DAVID K. HEMPHILL
FL Reg. Landscape Architect #502

BASKERVILLE-DONOVAN, INC.
INNOVATIVE INFRASTRUCTURE SOLUTIONS
PENSACOLA ■ PANAMA CITY ■ TALLAHASSEE ■ MOBILE
449 WEST MAIN STREET
PENSACOLA, FLORIDA 32502 (850)438-9661
ENGINEERING BUSINESS: EB-0000340

LEGEND:

- RAINBIRD, PESB-PRS-D SERIES, ELECTRIC REMOTE CONTROL VALVE IN MIN. 12" ROUND BOX, FILL BOTTOM W/PEA GRAVEL (SEE DETAIL)
- ISOLATION VALVE – 125# W.O.G. BRASS BALL VALVE IN AMETEK 10" ROUND BOX., FILL BOTTOM W/PEA GRAVEL., SIZE – SAME AS CONTROL VALVE
- 13 — CIRCUIT/STATION NUMBER
- 18.2GPM — TOTAL GPM'S FOR CIRCUIT/STATION
- 2"V — SIZE OF ELECTRIC REMOTE CONTROL VALVE
- C — RAIN BIRD ESP-MC SERIES (8 STATIONS) CONTROLLER, COORD. ELEC. RQMTS. W/ELEC. CONTR. CONTROLLER TO BE WALL MOUNTED, SEE PLAN. PROVIDE & INSTALL A RAIN BIRD (APPROPRIATE) PRIMARY SURGE PROTECTION KIT, INSTALL A 3/4" DIA.X 10' LG. H.D. GALV. GROUND ROD, W/CU WIRE CONN. TO CONTROLLER (AS PER MFGRS' SPECS.)
- 1800 SERIES POP-UP BODY, 12" POP-UP
- 1812/10H/R — DESIGNATION FOR RISER, SEE DETAIL
- 10 SERIES SPRAY HEAD (MPR)
- HEAD LOCATION

PIPE SIZING CHART:

CONTRACTOR TO SIZE EACH CIRCUIT/STATION LATERAL PIPING USING THE FOLLOWING:

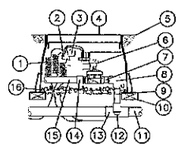
PIPE SIZE	MAX. GPM'S
1"	16
1 1/4"	28
1 1/2"	35
2"	55
2 1/2"	80
3"	120

EACH CIRCUIT/STATION SHOWN ON THIS DRAWING HAS THE NUMBER OF GPM'S REQUIRED FOR THAT CIRCUIT/STATION. EACH SPRAY CIRCUIT/STATION IS DESIGNED BASED ON 30PSI AT THE VALVE OF EACH CIRCUIT/STATION. 8005 CIRCUITS/STATIONS BASED ON 50 PSI @ EA. VALVE.

ISOLATION VALVES (IV) SHALL BE IN A LOCKABLE BOX.

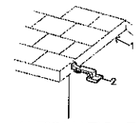
GENERAL NOTES:

1. LAYOUT OF HEADS IS EXACT, PIPING LAYOUT IS DIAGRAMMATIC ONLY. ACTUAL ROUTING OF PIPING LAYOUT DEPENDS ON FINAL SITE CONDITIONS.
2. IRRIGATION CONTRACTOR TO COORDINATE ELECTRICAL REQUIREMENTS FOR THE IRRIGATION SYSTEM WITH THE ELECTRICAL CONTRACTOR.
3. RAIN BIRD 16A-FDV, NOT SHOWN ON THE SYSTEM LAYOUT, BUT IS DETAILED ON THE DRAWING. THE IRRIGATION CONTRACTOR SHALL PROVIDE AND INSTALL AT THE LOWEST POINT OF EACH CIRCUIT/STATION THIS DEVICE AS DETAILED AND SHALL PROVIDE JUST AHEAD OF THE DRAIN VALVE A 3/4" BALL VALVE IN A BOX. THIS TO SHUT OFF THE USE OF THE FDV IN NON-WINTER TIMES.
4. ALL BOXES SHOWN ON THIS DRAWING SHALL HAVE LOCKABLE COVERS. PROVIDE AND PRESENT TO THE OWNER THE APPROPRIATE KEY TO UNLOCK SAID LOCKABLE COVER.
5. A NON-POTABLE WATER SUPPLY SOURCE WILL BE USED FOR THIS IRRIGATION LAYOUT. ALL HEADS, PIPE, ETC., SHALL BE SUITABLE FOR NON-POTABLE USE, AND SHALL BE MARKED AS SUCH.
6. IRRIGATION CONTRACTOR TO WIRE THE FOLLOWING STATIONS/CIRCUITS TOGETHER AT THE CONTROLLER TO COME AT THE SAME TIME:
   - STATIONS/CIRCUITS 1, 2, & 3
   - STATIONS/CIRCUITS 4, 5, & 6
   - STATIONS/CIRCUITS 7 & 8
   - STATIONS/CIRCUITS 9 & 10
   - STATIONS/CIRCUITS 11 & 12



1. 30-INCH LINEAR LENGTH OF WIRE, COILED
2. WATERPROOF CONNECTION 1 OF 2
3. ID TAG
4. VALVE BOX WITH COVER: 12" SIZE
5. FINISH GRADE/TOP OF MULCH
6. REMOTE CONTROL VALVE: RAIN BIRD PESB-PRS-B
7. PVC SCH 80 NIPPLE (CLOSE)
8. PVC SCH 40 ELL
9. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
10. BRICK (1 OF 4)
11. PVC MAINLINE PIPE
12. SCH 80 NIPPLE (2-INCH LENGTH HIDDEN) AND SCH 40 ELL
13. PVC SCH 40 TEE OR ELL
14. PVC SCH 40 MALE ADAPTER
15. PVC LATERAL PIPE
16. 3.0-INCH MINIMUM DEPTH OF 3/4" WASHED GRAVEL

PESB-PRS-D CONTROL VALVE
NOT TO SCALE

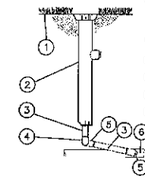


1–ROOF EDGE OR OTHER

2–AUTOMATIC RAIN SHUTOFF: RAIN BIRD – RAIN CHECK

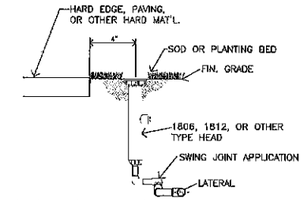
NOTE: FOR COMPLETE INSTALLATION INSTRUCTIONS, SEE THOSE ENCLOSED WITH RAIN CHECK

AUTOMATIC RAIN SHUT OFF
NOT TO SCALE

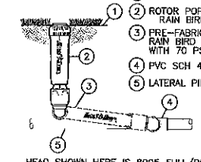


1. FINISH GRADE/TOP OF MULCH
2. POP-UP SPRAY SPRINKLER: RAIN BIRD 1812-SAM-PRS W/1800 VPC, W/RAIN BIRD ROTARY NOZZLE
3. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
4. PVC SCH 40 ELL
5. PVC SCH 40 STREET ELL
6. PVC SCH 40 TEE OR ELL
7. PVC LATERAL PIPE

RAIN BIRD 1812 SPRAY
NOT TO SCALE



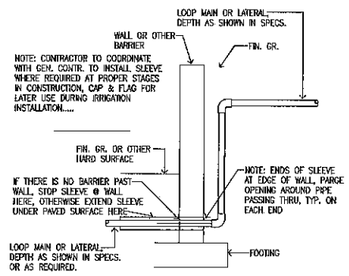
IRRIGATION HEAD @ HARD EDGE
NOT TO SCALE



1. FINISH GRADE
2. ROTOR POP-UP SPRINKLER: RAIN BIRD 8005
3. PRE-FABRICATED SWING JOINT: RAIN BIRD TSJ-100-PRS WITH 70 PSI PRESSURE REGULATOR
4. PVC SCH 40 TEE OR ELL
5. LATERAL PIPE

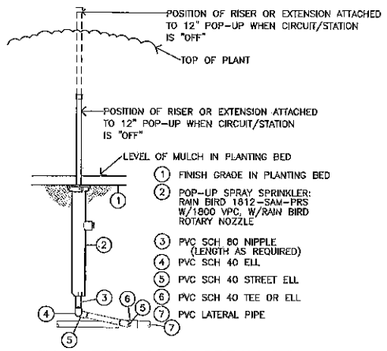
HEAD SHOWN HERE IS 8005 FULL/PC ROTOR POP-UP SERIES, SEE IRRIGATION HEAD LEGEND FOR COMPLETE DESCRIPTIONS.

RAIN BIRD 8005 ROTOR
NOT TO SCALE

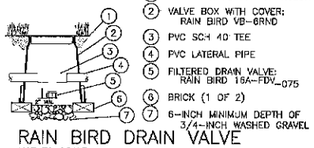


NOTE: IRRIGATION CONTRACTOR TO VERIFY ALL CONDITIONS WHERE IRRIGATION MAIN, OR LATERAL IS TO BE RUN DOWN AND THRU PROPOSED WALLS OF PAVING, ETC. SLEEVE TO BE 3 PIPE DIAMETERS LARGER THAN PIPE PASSING THRU SLEEVE. SLEEVE SHALL BE SCH. 80 PVC PIPING, CAPS USED FOR CAPPING – INSTALL W/NO SOLVENT. MAINTAIN MAIN OR LATERAL DEPTHS AS DESCRIBED IN THE SPECIFICATIONS

PIPE PASSING THRU WALL SECTION
NOT TO SCALE

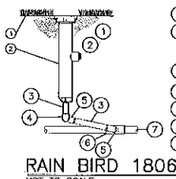


RAIN BIRD 1812 SPRAY POP-UP
NOT TO SCALE



1. FINISH GRADE/TOP OF MULCH
2. VALVE BOX WITH COVER: RAIN BIRD VB-GRND
3. PVC SCH 40 TEE
4. PVC LATERAL PIPE
5. FILTERED DRAIN VALVE: RAIN BIRD 16A-FDV-075
6. BRICK (1 OF 2)
7. 6-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

RAIN BIRD DRAIN VALVE
NOT TO SCALE



1. FINISH GRADE/TOP OF MULCH
2. POP-UP SPRAY SPRINKLER: RAIN BIRD 1806-SAM-PRS W/1800 VPC, W/RAIN BIRD ROTARY NOZZLE
3. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
4. PVC SCH 40 ELL
5. PVC SCH 40 STREET ELL
6. PVC SCH 40 TEE OR ELL
7. PVC LATERAL PIPE

RAIN BIRD 1806 SPRAY POP-UP
NOT TO SCALE

BASKERVILLE-DONOVAN, INC.
INNOVATIVE INFRASTRUCTURE SOLUTIONS
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DAVID K. HEMPHILL
FL Reg. Landscape Architect #302

ECUA
CENTRAL WATER RECLAMATION FACILITY

ESCAMBIA COUNTY, FLORIDA

NO.	DATE	APPR.	REVISION/ACTION TAKEN
1.	3/13/08	DAC	100% SUBMITTAL – FOR REVIEW ONLY
2.	4/3/08	DAC	RELEASED FOR BID
3.	JUNE 08	DAC	RELEASED FOR CONSTRUCTION

This drawing is the property of DONOVAN-BASKERVILLE, INC. and has its approval as a whole or in part. It is not to be used on any other project and is to be returned upon request.

PROJECT NO: 27934.03
DESIGNED BY: LGW
DRAWN BY: LGW
CHKD BY: LGW
PROJ. MGR: DAC
DATE: JUNE 2008

RELEASED FOR CONSTRUCTION
BY DAC DATE JUNE 2008

IRRIGATION LEGEND and DETAILS

L-107

K:\279\27934.03 – ECRWRF – Treatment\Landscape-Irrigation Dwgs 021408\021408 Irrigation.dwg, Jun 12, 2008 – 12:49:06PM, lgraham