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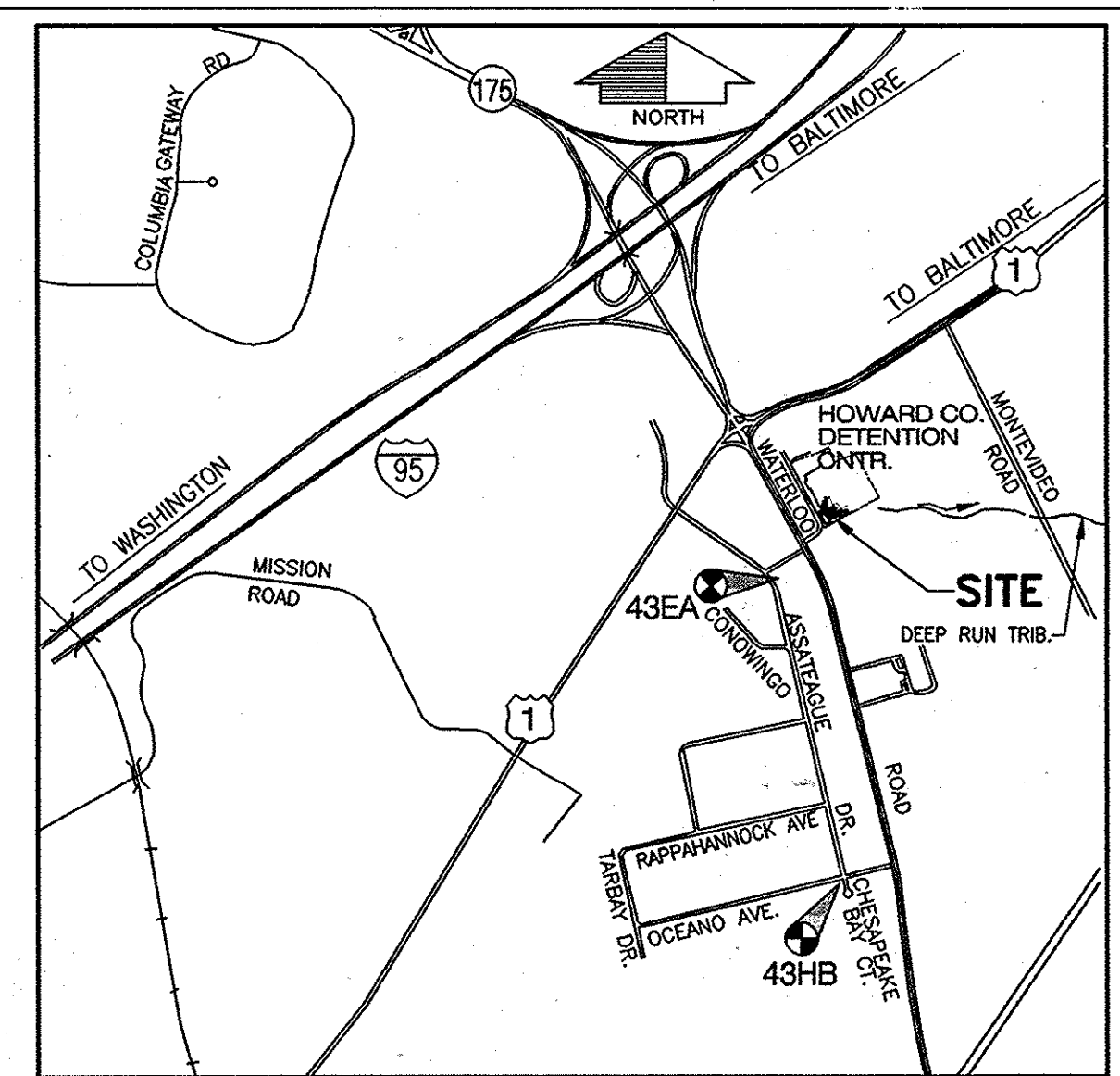
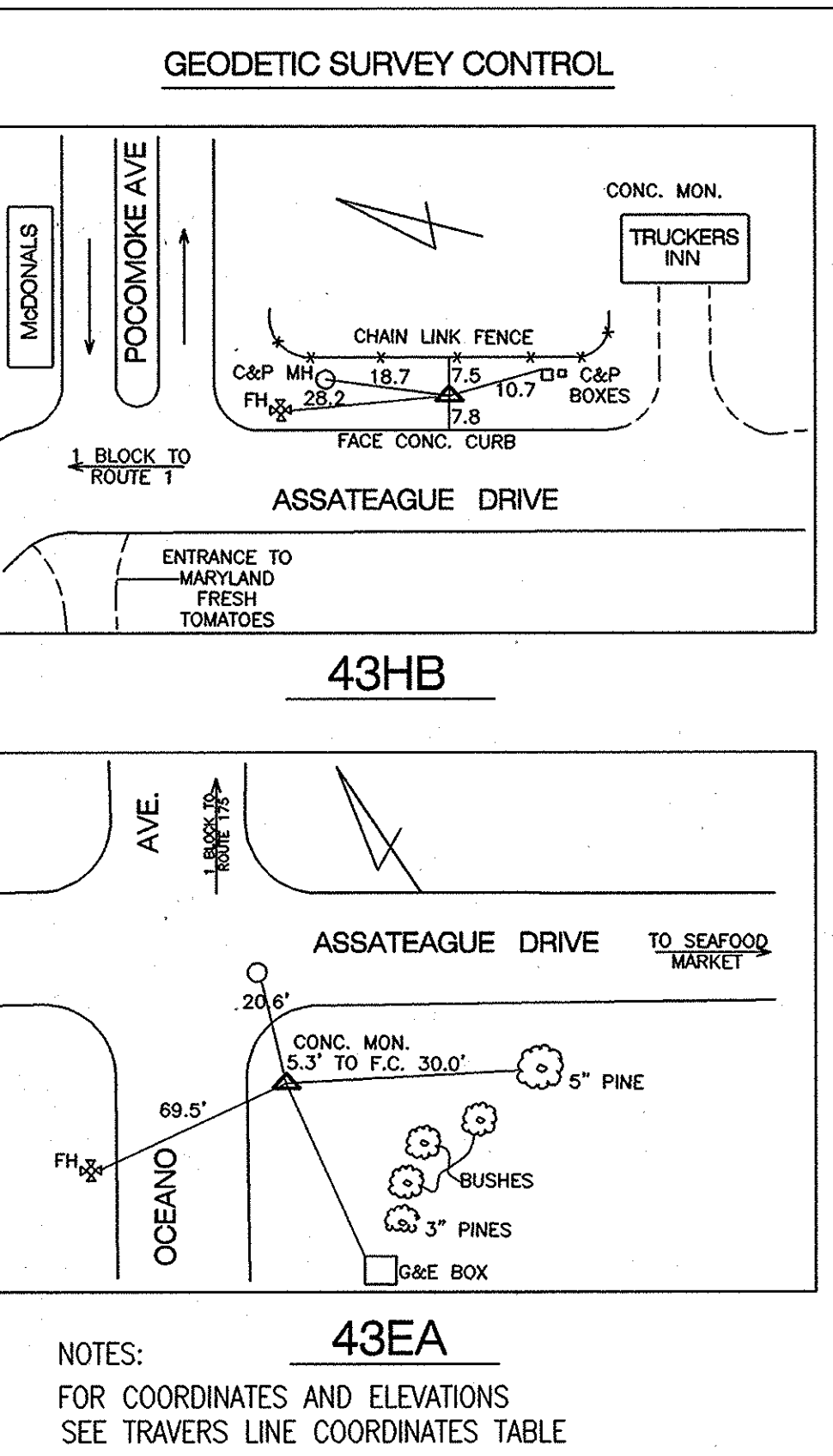
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BASE LINE COORDINATES

NO	NORTHING	EASTING
1	547196.0481	1374031.5005
2	547132.6480	1374066.2603
3	547040.0403	1374117.0335
4	547020.5301	1374127.7301
5	547010.5283	1374162.0097
6	547073.1698	1374276.2647
7	547107.4494	1374286.2665
8	547126.9595	1374275.5699
9	547175.2477	1374249.0954
10	547137.8787	1374333.4477
11	547107.5541	1374022.6477
12	547129.2962	1374061.1249
13	547157.6469	1374083.5912
14	547223.6097	1374102.8290
15	547110.9568	1374284.3435

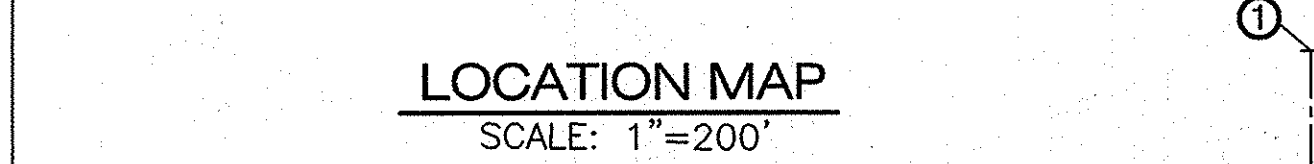
BASELINE STATION AND OFFSET

NO	BASELINE	STA.	OFFSET	NO	BASELINE	STA.	OFFSET
1	B	1+32.48	12.00' RT.	20	A	2+39.83	12.00' LT.
2	B	1+32.48	32.67' RT.	21	A	2+46.58	12.00' LT.
3	B	+95.81	12.00' RT.	22	A	2+39.83	12.00' RT.
4	B	+90.17	6.35' RT.	23	A	2+46.58	32.00' LT.
5	B	+85.56	32.67' RT.	24	C	3+45.58	15.50' RT.
6	B	+83.16	3.45' RT.	25	A	3+45.58	12.00' LT.
7	A	+75.75	14.95' LT.	26	C	3+70.13	9.00' RT.
8	A	+82.84	12.00' LT.	27	A	3+70.13	12.00' LT.
9	A	+90.42	22.67' LT.	28	A	3+70.13	12.00' RT.
10	B	+28.12	14.75' RT.	29	A	3+95.30	12.00' RT.
11	A	1+07.73	22.00' RT.	30	D	0+26.97	12.00' RT.
12	A	1+07.73	32.00' RT.	31	D	0+26.76	23.00' LT.
13	A	1+56.92	12.00' LT.	32	D	0+56.00	12.00' RT.
14	A	1+63.42	22.66' LT.	33	D	0+56.00	23.00' LT.
15	C	2+38.58	9.00' LT.	34	A	4+48.31	12.00' RT.
16	C	2+39.83	9.00' RT.	35	C	3+70.38	9.00' LT.
17	A	2+03.06	32.17' RT.	36	A	4+59.27	12.00' RT.
18	A	2+04.22	15.71' RT.	37	A	4+56.92	12.00' LT.
19	A	2+07.17	12.00' RT.	38	C	1+38.17	14.50' LT.
				39	B	0+75.45	24.60' LT.
				40	B	0+45.37	15.02' LT.



SITE ANALYSIS

TOTAL AREA OF SITE	= 6.00 ACRES
LIMIT OF DISTURBED AREA	= 1.8 ACRES
PRESENT ZONING DESIGNATION	= M-2
PROPOSED USES FOR SITE AND STRUCTURES	= CENTRAL BOOKING FACILITY
MAXIMUM NUMBER OF EMPLOYEES	= 15
NO OF PARKING SPACES REQUIRED	= 25 BY HOWARD COUNTY DPW
NO OF PARKING SPACES	= 25
BUILDING AREA	= 9940 SF. (ADDITION) 40,940 SF. (TOTAL)
FOREST AREA IMPACTED	= 28,315 SQ. FT.
BUILDING COVERAGE OF SITE	0.90 ACRES AND 16% GROSS AREA
APPLICABLE DPZ FILE REFERENCE: SDP-78-108, SDP-80-123, SDP-90-117, AND SDP-91-107, WP-02-114	



CURVE DATA

CURVE-1

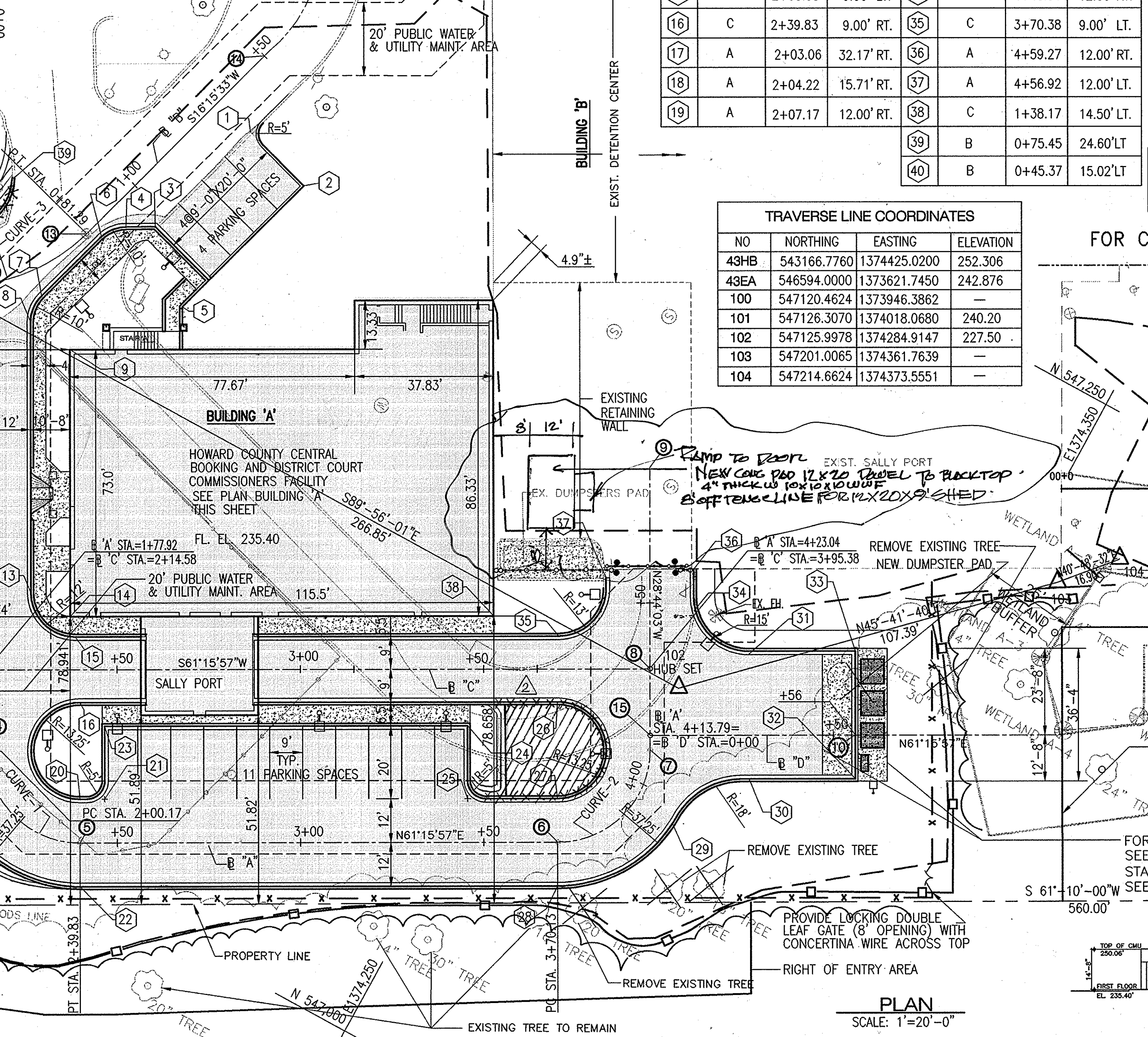
Δ = 90°-00'-00"
Dc = 226°-54'-50"
Rc = 25.25'
Lc = 39.66'
Tc = 25.25'
E = 10.459'

CURVE-2

Δ = 90°-00'-00"
Dc = 226°-54'-50"
Rc = 25.25'
Lc = 39.66'
Tc = 25.25'
E = 10.459'

CURVE-3

Δ = 44°-16'-18"
Dc = 119°-21'-58"
Rc = 48.00'
Lc = 37.09'
Tc = 19.5257'
E = 3.8194'



PROJECT ADDRESS CHART

LOT/PARCEL#	STREET ADDRESS	OWNER	PHONE NO.
660	7811 WATERLOO ROAD JESSUP, MD 20794	Howard County Government 3480 COURTHOUSE DRIVE ELLCOTT CITY, MD 21043	410-913-4401

NOTES:
FOR COORDINATES AND ELEVATIONS SEE TRAVERS LINE COORDINATES TABLE

TRAVERSE LINE COORDINATES

NO	NORTHING	EASTING	ELEVATION
43HB	543166.7780	1374425.0200	252.306
43EA	546594.0000	1373621.7450	242.876
100	547120.4624	1373946.3862	-
101	547126.3070	1374018.0680	240.20
102	547125.9978	1374284.9147	227.50
103	547201.0065	1374361.7639	-
104	547214.6624	1374373.5551	-

- NOTES:**
- FOR GENERAL NOTES SEE SHEET NO. C-2
 - FOR PARKING LOT SIGN DETAILS SEE SHEET C-25
 - FOR DIMENSIONS OF EXIST. DETENTION CENTER, SEE SHEET NO. C-2
 - MODULAR BUILDING TO BE REMOVED BY OTHERS
 - FOR LEGEND SEE SHEET NO. C-2
 - FOR BASELINE "E" INFORMATION SEE SHEET C-10.

THE SUBJECT PROPERTY IS ZONED M-2 PER THE 10-18-93 COMPREHENSIVE ZONING PLAN

Approved: Department of Planning and Zoning

Jessie D. Lough 3/19/03
Director (Acting) Date

Chris Hanrahan 3/19/03
Chief, Division of Land Development Date

Chris Hanrahan 3/19/03
Chief, Development Engineering Division Date

SUBDIVISION NAME	SECTION/AREA	PARCEL NO.
HOWARD COUNTY DETENTION CENTER	N/A	660

LIBER/FOLIO	BLOCK NO	ZONING	TAX MAP	GRID NO.	HOWARD CO. ELEC. DIST.	CENSUS TR.
2118/282	9,10 AND 15	M-2	43	9	N0-1	6012.02
1009/368						
15840, 15841						

WATER CODE B01 SEWER CODE 2221000

PROPOSED IMPROVEMENTS
BUILDING ADDITION, SEE SITE ANALYSIS CHART FOR APPLICABLE DPZ FILE REFERENCE DPZ FILE REF. FOR CURRENT PROJECT SDP-02-20

STATE OF MARYLAND
STATE BOARD OF PRISON CONTROL
LIBER 104/FOLIO 384, LIBER 232/FOLIO 85, LIBER 929/FOLIO 187
ZONING M-2

ati Architects Engineers and Construction Consultants
8950 Route 108 Suite 218
Columbia Maryland 21045 (410)995-4067 Fax (410)992-1837

DCI CONSULTING ENGINEERING AND PLANNING
8950 Rt. 108 E., Suite 229 Columbia, MD, 21045
Phone: 410-995-0090 Fax: 410-992-7038

REVISIONS

NO.	DATE	DESCRIPTION
1	3/12/03	ADDENDUM NO. 1
2	9/15/05	REDLINE REVISION

GEOMETRIC LAYOUT
HOWARD COUNTY CENTRAL BOOKING & DISTRICT COURT COMMISSIONERS FACILITY
HOWARD COUNTY, MARYLAND
DATE: FEBRUARY 21, 2003

CAPITAL PROJECT NO.
P-4916
C-1
SET SHEET 1 OF 25
SDP-02-20

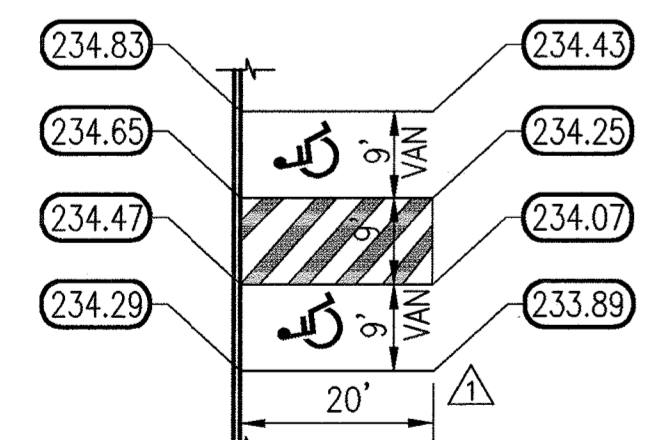
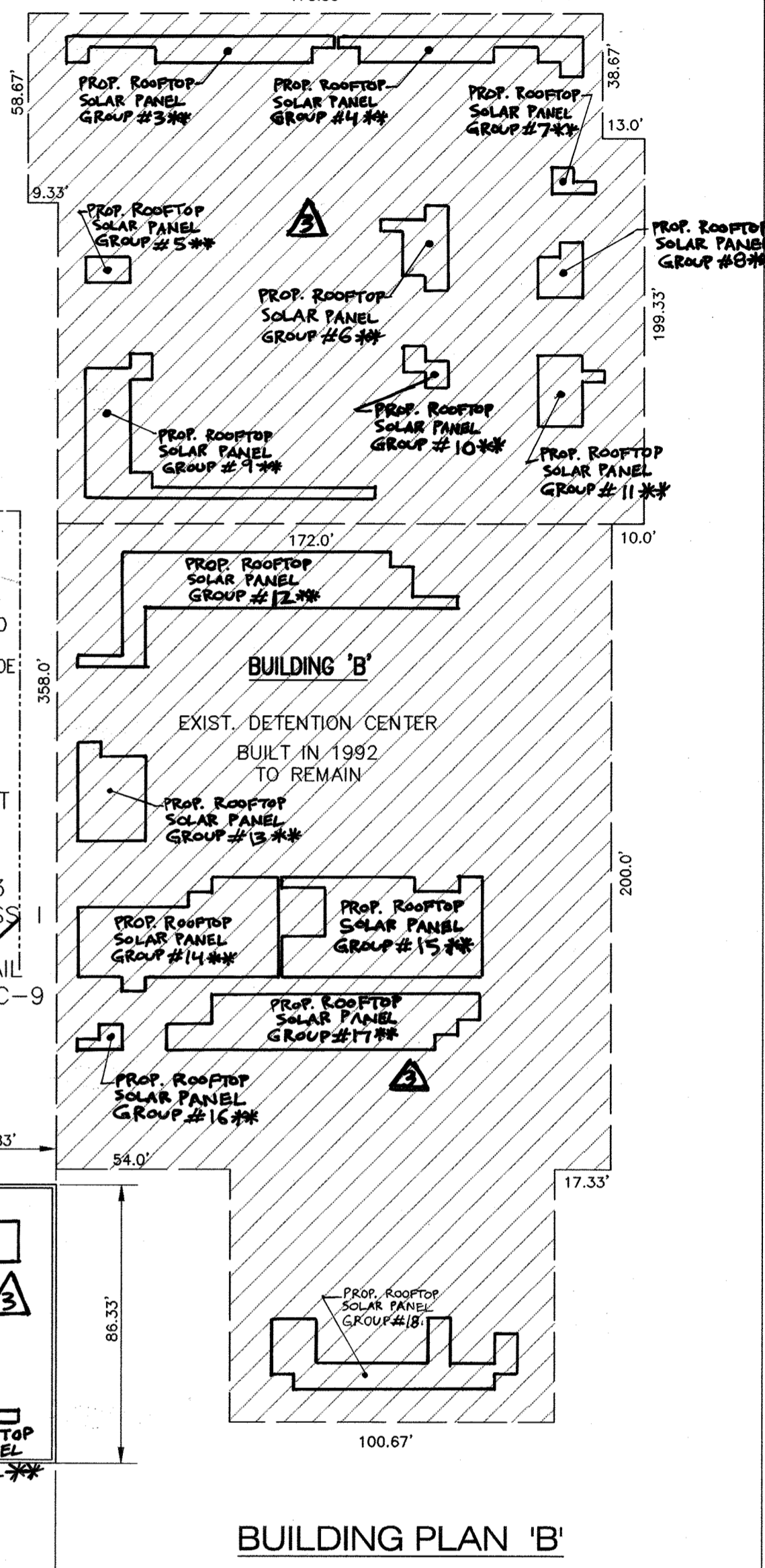
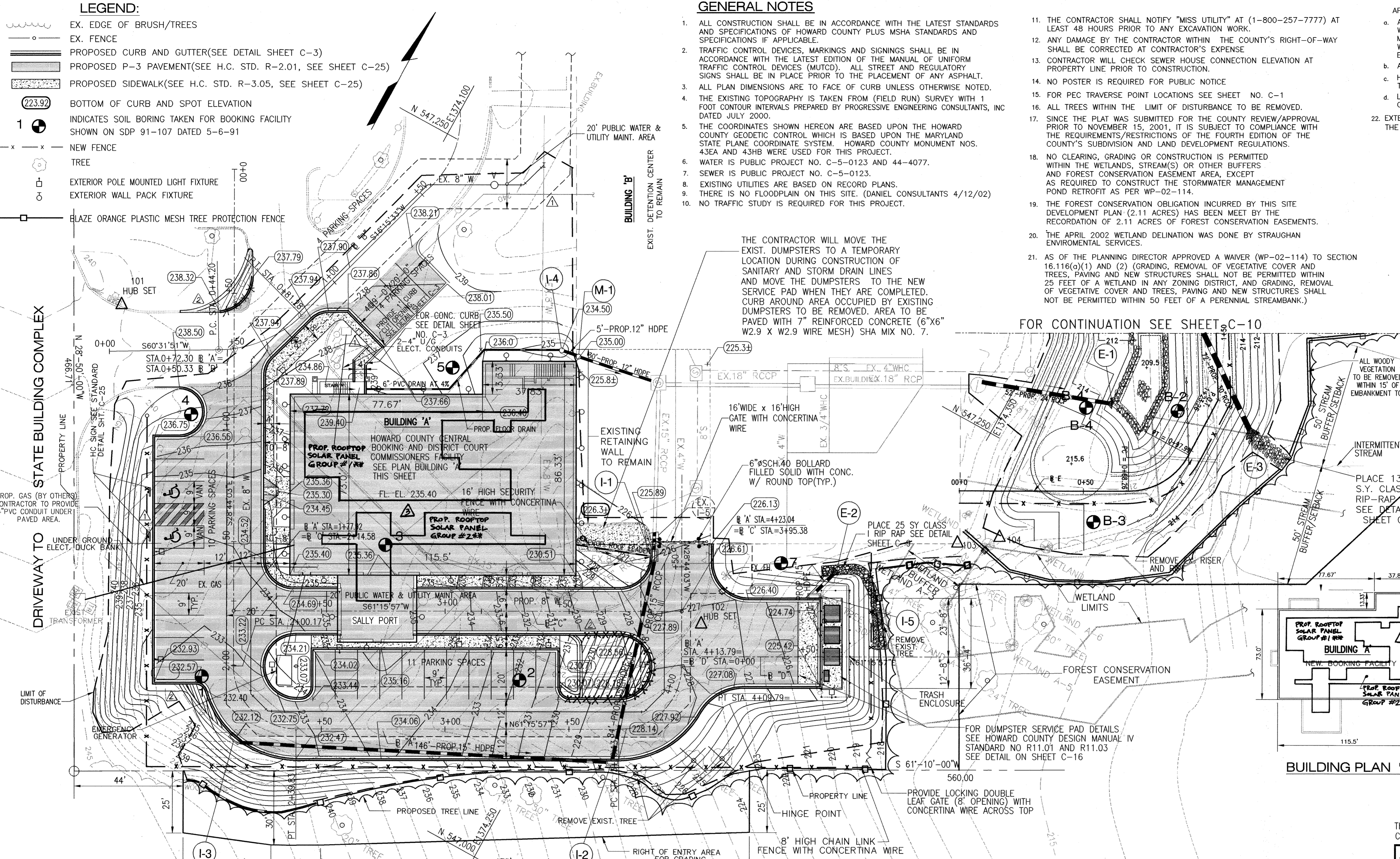
LEGEND:

- EX. EDGE OF BRUSH/TREES
- EX. FENCE
- PROPOSED CURB AND GUTTER(SEE DETAIL SHEET C-3)
- PROPOSED P-3 PAVEMENT(SEE H.C. STD. R-2.01, SEE SHEET C-25)
- PROPOSED SIDEWALK(SEE H.C. STD. R-3.05, SEE SHEET C-25)
- (233.92) BOTTOM OF CURB AND SPOT ELEVATION
- 1 INDICATES SOIL BORING TAKEN FOR BOOKING FACILITY SHOWN ON SDP 91-107 DATED 5-6-91
- x - x - NEW FENCE
- TREE
- EXTERIOR POLE MOUNTED LIGHT FIXTURE
- EXTERIOR WALL PACK FIXTURE
- FLAZE ORANGE PLASTIC MESH TREE PROTECTION FENCE

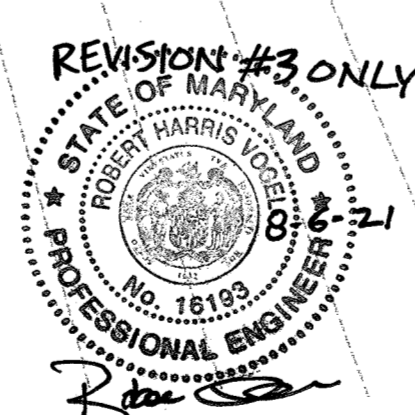
GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
2. TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
3. ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
4. THE EXISTING TOPOGRAPHY IS TAKEN FROM (FIELD RUN) SURVEY WITH 1 FOOT CONTOUR INTERVALS PREPARED BY PROGRESSIVE ENGINEERING CONSULTANTS, INC DATED JULY 2000.
5. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 43EA AND 43HB WERE USED FOR THIS PROJECT.
6. WATER IS PUBLIC PROJECT NO. C-5-0123 AND 44-4077.
7. SEWER IS PUBLIC PROJECT NO. C-5-0123.
8. EXISTING UTILITIES ARE BASED ON RECORD PLANS.
9. THERE IS NO FLOODPLAIN ON THIS SITE. (DANIEL CONSULTANTS 4/12/02)
10. NO TRAFFIC STUDY IS REQUIRED FOR THIS PROJECT.
11. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT (1-800-257-7777) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
12. ANY DAMAGE BY THE CONTRACTOR WITHIN THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT CONTRACTOR'S EXPENSE
13. CONTRACTOR WILL CHECK SEWER HOUSE CONNECTION ELEVATION AT PROPERTY LINE PRIOR TO CONSTRUCTION.
14. NO POSTER IS REQUIRED FOR PUBLIC NOTICE
15. FOR PEC TRAVERSE POINT LOCATIONS SEE SHEET NO. C-1
16. ALL TREES WITHIN THE LIMIT OF DISTURBANCE TO BE REMOVED.
17. SINCE THE PLAT WAS SUBMITTED FOR THE COUNTY REVIEW/APPROVAL PRIOR TO NOVEMBER 15, 2001, IT IS SUBJECT TO COMPLIANCE WITH THE REQUIREMENTS/RESTRICTIONS OF THE FOURTH EDITION OF THE COUNTY'S SUBDIVISION AND LAND DEVELOPMENT REGULATIONS.
18. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE WETLANDS, STREAM(S) OR OTHER BUFFERS AND FOREST CONSERVATION EASEMENT AREA, EXCEPT AS REQUIRED TO CONSTRUCT THE STORMWATER MANAGEMENT POND RETROFIT AS PER WP-02-114.
19. THE FOREST CONSERVATION OBLIGATION INCURRED BY THIS SITE DEVELOPMENT PLAN (2.11 ACRES) HAS BEEN MET BY THE RECORDATION OF 2.11 ACRES OF FOREST CONSERVATION EASEMENTS.
20. THE APRIL 2002 WETLAND DELINEATION WAS DONE BY STRAUGHAN ENVIRONMENTAL SERVICES.
21. AS OF THE PLANNING DIRECTOR APPROVED A WAIVER (WP-02-114) TO SECTION 16.116(a)(1) AND (2) (GRADING, REMOVAL OF VEGETATIVE COVER AND TREES, PAVING AND NEW STRUCTURES SHALL NOT BE PERMITTED WITHIN 25 FEET OF A WETLAND IN ANY ZONING DISTRICT, AND GRADING, REMOVAL OF VEGETATIVE COVER AND TREES, PAVING AND NEW STRUCTURES SHALL NOT BE PERMITTED WITHIN 50 FEET OF A PERENNIAL STREAMBANK.)

- APPROVAL WAS SUBJECT TO THE FOLLOWING CONDITIONS:
- a. ALL GRADING, CLEARING OR CONSTRUCTION DISTURBANCES WITHIN THE WETLANDS, WETLAND BUFFER AND STREAM BUFFER SHALL BE KEPT TO A MINIMUM NECESSARY TO RETROFIT THE EXISTING SWM FACILITY. THIS WAIVER APPROVAL APPLIES ONLY TO THE GRADING SHOWN ON THE PLAN EXHIBIT DATED JANUARY 25, 2002.
 - b. ALL GRADED AREAS MUST BE RESTABILIZED AND REVEGETATED.
 - c. HOLD THE L.O.D. TO EXPAND NO FURTHER THAN THE EXISTING OUTSIDE TOE-OF-DAM.
 - d. LIMIT EMBANKMENT SLOPES TO 3:1, BOTH SIDES, PER HOWARD SCD CRITERIA, I.E. DO NOT EXPAND TOE INTO WETLAND OR STREAM BUFFER.
22. EXTERIOR LIGHTING WILL BE IN CONFORMANCE WITH SECTION 134 OF THE HOWARD COUNTY ZONING REGULATIONS. 178.33'



- NOTES:**
1. THE ROOFTOP SOLAR PANELS ARE AN ACCESSORY USE TO THE PRINCIPLE USE.
 2. THE MAXIMUM HEIGHT OF THE ROOFTOP SOLAR PANELS FROM THE GROUND IS 21'± (20' FROM GROUND LEVEL TO THE HIGHEST BUILDING ROOF LEVEL + 11' OF THE SOLAR PANELS FULLY EXTENDED AT A 10° TILT).
 3. THE ROOFTOP SOLAR PANELS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH ALL SETBACKS.



SITE PLAN
SCALE 1"=20'

- NOTES:**
1. FOR CURB & GUTTER DETAILS SEE SHEET NO. C-3
 2. FOR PAVEMENT AND CURB ELEVATIONS SEE SHEET NO. C-21
 3. FOR SIDEWALK DETAILS SEE H.C. STD. NO. R-3.05, SEE SHEET C-25
 4. USE TYPE "A" SIDEWALK RAMP H.C. STD. R4.01, SEE SHEET C-25

THE SUBJECT PROPERTY IS ZONED M-2 PER THE 10-18-93 COMPREHENSIVE ZONING PLAN

Approved: Department of Planning and Zoning		Date
Director	<i>March 2, 2003</i>	3/10/03
Chief, Department of Development	<i>Cindy Hamilton</i>	3/14/03
Chief, Development Engineering Division	<i>Al Daneman</i>	3/19/03

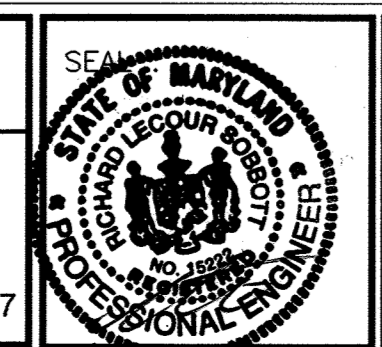
SUBDIVISION NAME HOWARD COUNTY DETENTION CENTER		SECTION/AREA N/A	PARCEL NO. 660
LIBER/FOLIO 2116/282 1009/368 0840, 15841	BLOCK NO 9, 10 AND 15	ZONING M-2	TAX MAP GRID NO 43 9
WATER CODE B01		SEWER CODE 2221000	HOWARD CO. CENSUS TR. NO-1 6012.02

PROPOSED IMPROVEMENTS
BUILDING ADDITION, SEE SITE ANALYSIS CHART FOR APPLICABLE DPZ FILE REFERENCE DPZ FILE REF. FOR CURRENT PROJECT SDP-02-20

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Architects Engineers and Construction Consultants

 8950 Route 108 Suite 218
 Columbia Maryland 21045 (410)995-4067 Fax(410)992-1837



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 8950 Rt. 108 E., Suite 229 Columbia, MD. 21045
 Phone: 410-995-0090 Fax: 410-992-7038
 DANIEL CONSULTANTS, INC.

REVISIONS		
NO.	DATE	DESCRIPTION
1	3/12/03	ADDENDUM NO. 1
2	9/15/05	REDLINE REVISION
3	6-15-21	REMOVE TO ADD ROOFTOP SOLAR PANELS

SITE AND GRADING PLAN	
HOWARD COUNTY CENTRAL BOOKING & DISTRICT COURT COMMISSIONERS FACILITY	
HOWARD COUNTY, MARYLAND	
DATE:	FEBRUARY 21, 2003

CAPITAL PROJECT NO.
 P - 4916
C-2
 SET SHEET 2 OF 25
 SDP-02-20

LEGEND:

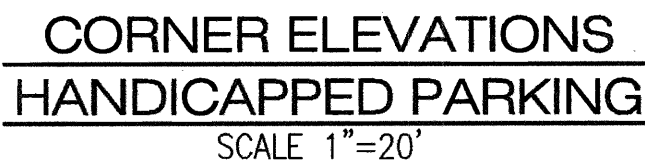
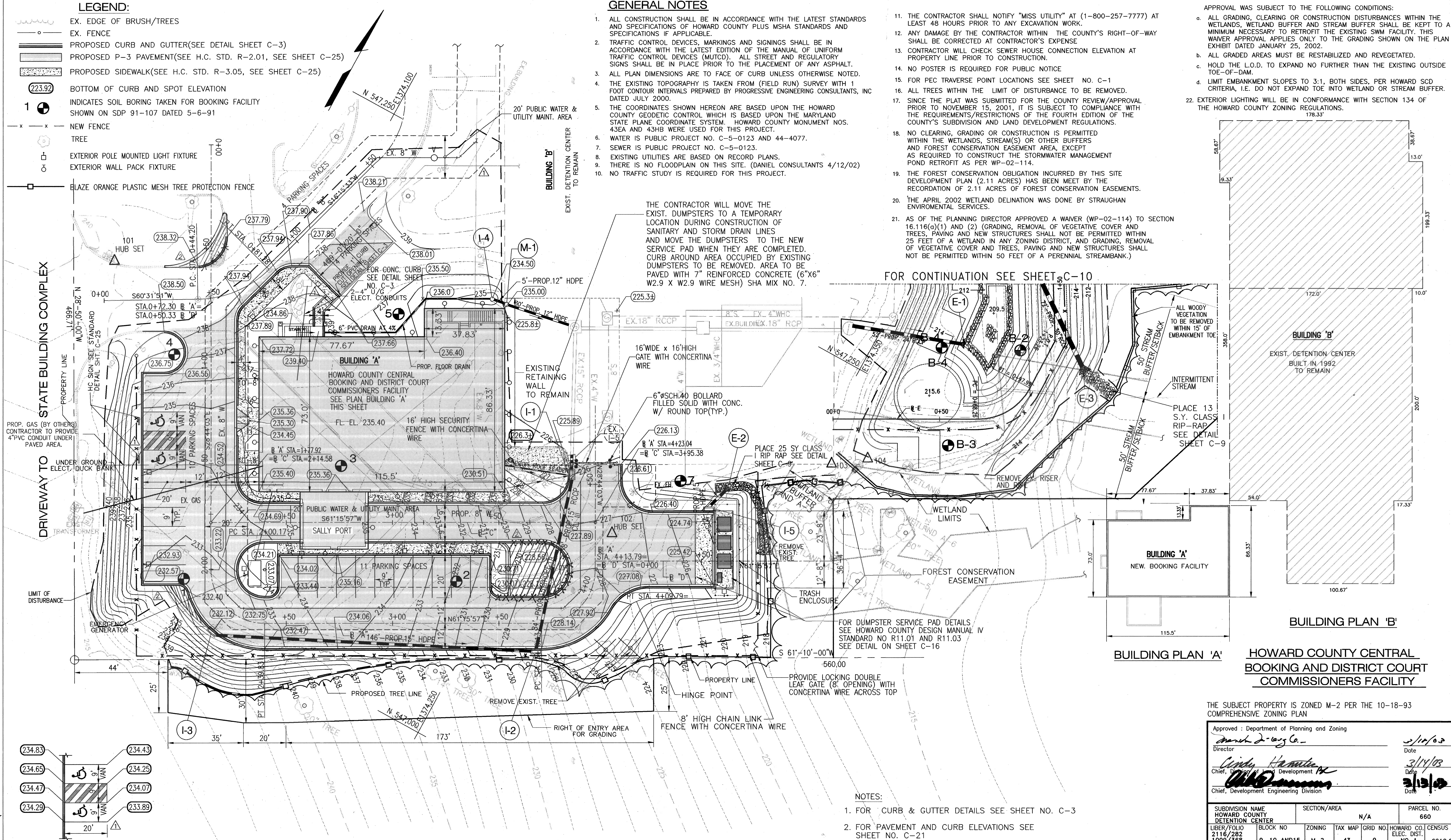
- EX. EDGE OF BRUSH/TREES
- EX. FENCE
- PROPOSED CURB AND GUTTER(SEE DETAIL SHEET C-3)
- PROPOSED P-3 PAVEMENT(SEE H.C. STD. R-2.01, SEE SHEET C-25)
- PROPOSED SIDEWALK(SEE H.C. STD. R-3.05, SEE SHEET C-25)
- 223.92 BOTTOM OF CURB AND SPOT ELEVATION
- INDICATES SOIL BORING TAKEN FOR BOOKING FACILITY SHOWN ON SDP 91-107 DATED 5-6-91
- NEW FENCE
- TREE
- EXTERIOR POLE MOUNTED LIGHT FIXTURE
- EXTERIOR WALL PACK FIXTURE
- BLAZE ORANGE PLASTIC MESH TREE PROTECTION FENCE

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19. THE FOREST CONSERVATION OBLIGATION INCURRED BY THIS SITE DEVELOPMENT PLAN (2.11 ACRES) HAS BEEN MET BY THE RECORDATION OF 2.11 ACRES OF FOREST CONSERVATION EASEMENTS.
20. THE APRIL 2002 WETLAND DELINEATION WAS DONE BY STRAUGHAN ENVIRONMENTAL SERVICES.
21. AS OF THE PLANNING DIRECTOR APPROVED A WAIVER (WP-02-114) TO SECTION 16.116(a)(1) AND (2) (GRADING, REMOVAL OF VEGETATIVE COVER AND TREES, PAVING AND NEW STRUCTURES SHALL NOT BE PERMITTED WITHIN 25 FEET OF A WETLAND IN ANY ZONING DISTRICT, AND GRADING, REMOVAL OF VEGETATIVE COVER AND TREES, PAVING AND NEW STRUCTURES SHALL NOT BE PERMITTED WITHIN 50 FEET OF A PERENNIAL STREAMBANK.)

APPROVAL WAS SUBJECT TO THE FOLLOWING CONDITIONS:

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- d. LIMIT EMBANKMENT SLOPES TO 3:1, BOTH SIDES, PER HOWARD SCD CRITERIA, I.E. DO NOT EXPAND TOE INTO WETLAND OR STREAM BUFFER.
22. EXTERIOR LIGHTING WILL BE IN CONFORMANCE WITH SECTION 134 OF THE HOWARD COUNTY ZONING REGULATIONS. 178.33'



SITE PLAN
SCALE 1"=20'

NOTES:

1. FOR CURB & GUTTER DETAILS SEE SHEET NO. C-3
2. FOR PAVEMENT AND CURB ELEVATIONS SEE SHEET NO. C-21
3. FOR SIDEWALK DETAILS SEE H.C. STD. NO. R-3.05, SEE SHEET C-25
4. USE TYPE "A" SIDEWALK RAMP H.C. STD. R4.01, SEE SHEET C-25

**HOWARD COUNTY CENTRAL
BOOKING AND DISTRICT COURT
COMMISSIONERS FACILITY**

THE SUBJECT PROPERTY IS ZONED M-2 PER THE 10-18-93 COMPREHENSIVE ZONING PLAN

Approved: Department of Planning and Zoning	
Director	2/11/03
Chief, Development Division	3/14/03
Chief, Development Engineering Division	3/15/03

SUBDIVISION NAME HOWARD COUNTY DETENTION CENTER		SECTION/AREA N/A	PARCEL NO. 660
LIBER/FOLIO 2116/282 1009/358 1584	BLOCK NO 9, 10 AND 15	ZONING M-2	TAX MAP 43
GRID NO 9		HOWARD CO. NO-1	CENSUS TR. 6012.02
WATER CODE B01		SEWER CODE 2221000	

PROPOSED IMPROVEMENTS
BUILDING ADDITION, SEE SITE ANALYSIS CHART FOR APPLICABLE DPZ FILE REFERENCE DPZ FILE REF. FOR CURRENT PROJECT SDP-02-20

H:\PROJECTS\CIVIL\0121901\PROGRESSIVE\C-2.DWG

lati Architects Engineers and Construction Consultants
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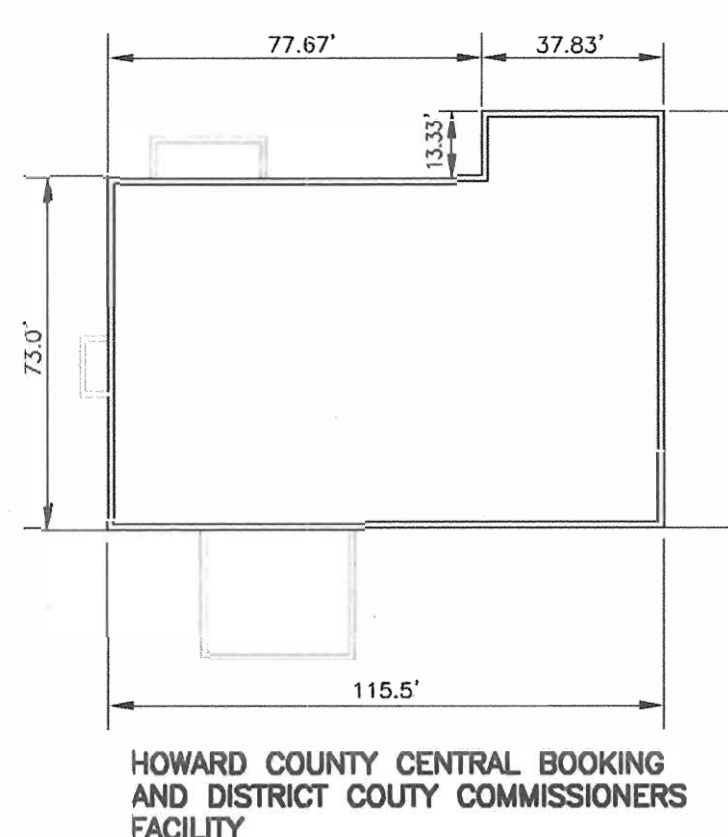
REVISIONS		
NO.	DATE	DESCRIPTION
1	3/12/03	ADDENDUM NO. 1
2	9/15/05	REDLINE REVISION

SITE AND GRADING PLAN
HOWARD COUNTY CENTRAL BOOKING & DISTRICT COURT COMMISSIONERS FACILITY
HOWARD COUNTY, MARYLAND
DATE: FEBRUARY 21, 2003

CAPITAL PROJECT NO.
 P - 4916
C-2
SET SHEET 2 OF 25
SDP-02-20

STRUCTURE SCHEDULE							
STRUCT. NO.	TYPE	STD. NO.	LOCATION	TOP ELEV.	INVERT IN	INVERT OUT	REMARK
I-4	YARD INLET	SD.4.14	NORTH CORNER OF BLDG.	234.50	-	224.05	DRAIN AT EL.=229.86
I-3	A-5 INLET	SD.4.40	STA. 2+23.47 @ A	232.72	-	227.70	WIDTH = 2'-6" LENGTH = 5'-0" (INSIDE DIMENSIONS)
I-2	A-5 INLET	SD.4.40	STA. 3+67 @ A	228.74	224.50	224.25	WIDTH = 2'-6" LENGTH = 5'-0" (INSIDE DIMENSIONS)
I-1	SINGLE WR INLET	SD.4.38	STA. 4+54 @ A	225.89	221.10	220.68	6" ROOF LEADER AT INVERT EL. 223.1
I-5	A-5 INLET	SD.4.40	STA. 0+56 @ D	225.34	-	222.34	WIDTH = 2'-6" LENGTH = 5'-0" (INSIDE DIMENSIONS)
E-2	END SECTION	HDPE	STA. 0+62 @ D	-	-	222.84	PROVIDE RIP RAP AT OUTLET
E-1	END SECTION	SD.5.52	STA. 0+60 @ E	-	-	210.00	PROVIDE RIP RAP AT OUTLET
EX I-5							TO BE REMOVED
M-1	SHALLOW MANHOLE	G5.05	STA. 3+53 @ C	235.8±	224.0	222.3	

STRUCTURE SCHEDULE						
STRUCT. NO.	TYPE	STD. NO.	LOCATION	TOP ELEV.	INVERT IN	INVERT OUT
E-3	END SECTION	SD.5.52	STA. 1+17 @ E	-	-	209.00
S-1	RISER	DETAIL SHEET C-15	STA. 1+69 @ E	SEE DET.C-15	-	209.5
SM-1	SHALLOW MANHOLE	G5.05	STA. 3+55 @ C	226.8	224.0	223.4
E-4	END SECTION	SD.5.52	STA. 2+80 @ E	-	-	209.5
E-5	END SECTION	SD.5.52	STA. 3+37 @ E	-	-	216.2
M-2	MANHOLE	G5.12	STA. 3+13 @ E	221.5	216.0	210.0
E-6	END SECTION	SD.5.52	STA. 3+78 @ E	-	-	216.3
E-7	UNDERDRAIN OUTLET	R8.01	STA. 0+38 @ D	-	-	222.0



GENERAL NOTES

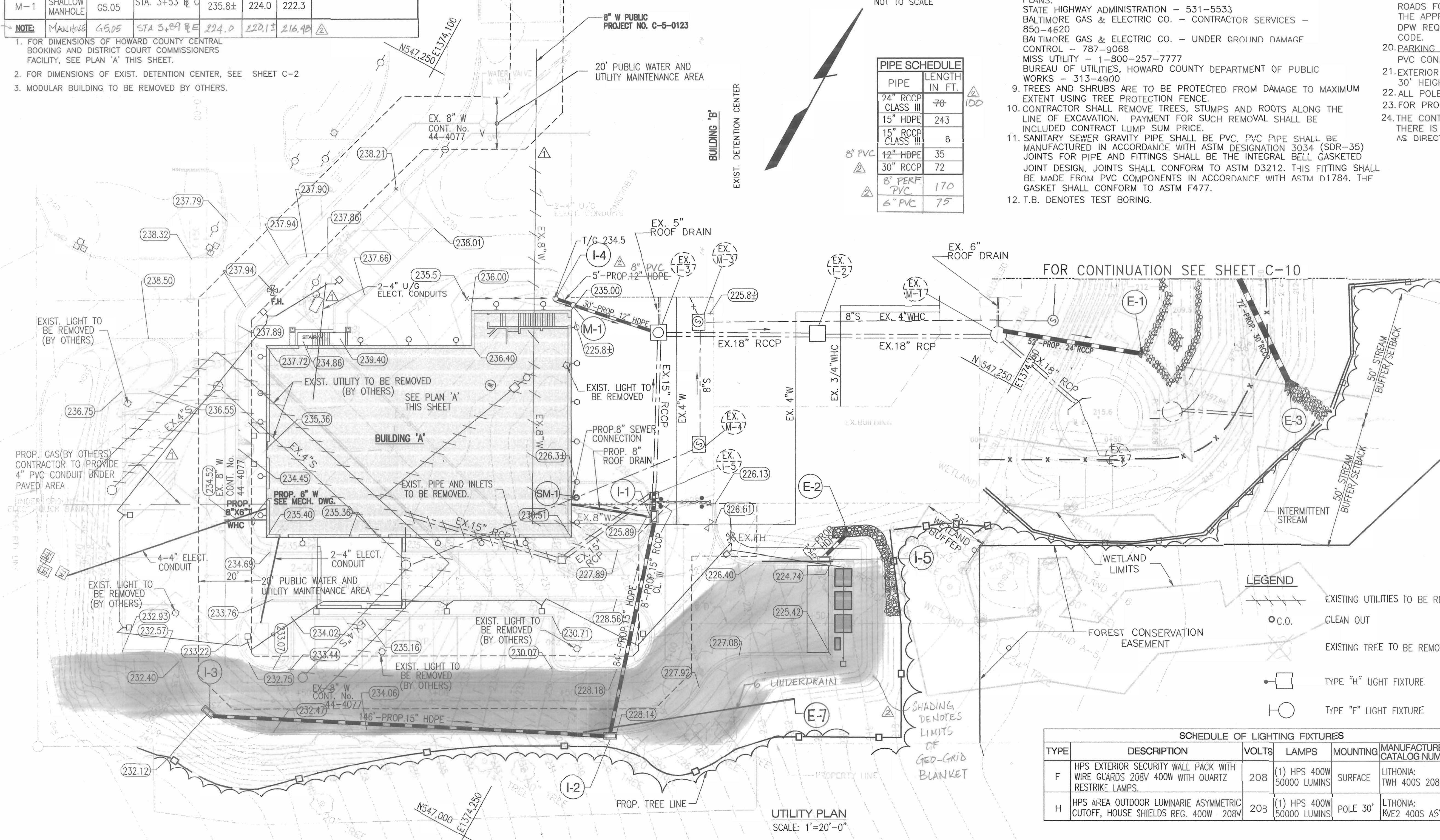
- APPROXIMATE LOCATIONS OF EXISTING WATER LINES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
- ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.
- ALL PIPE ELEVATIONS ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (1991 AMENDMENTS) THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB SITE.
- EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION. ANY DAMAGE TO EXISTING FACILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
STATE HIGHWAY ADMINISTRATION - 531-5533
BALTIMORE GAS & ELECTRIC CO. - CONTRACTOR SERVICES - 850-4620
BALTIMORE GAS & ELECTRIC CO. - UNDER GROUND DAMAGE CONTROL - 787-9068
MISS UTILITY - 1-800-257-7777
BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - 313-4900
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT USING TREE PROTECTION FENCE.
- CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED CONTRACT LUMP SUM PRICE.
- SANITARY SEWER GRAVITY PIPE SHALL BE PVC. PVC PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM DESIGNATION 3034 (SDR-35) JOINTS FOR PIPE AND FITTINGS SHALL BE THE INTEGRAL BELL GASKETED JOINT DESIGN. JOINTS SHALL CONFORM TO ASTM D3212. THIS FITTING SHALL BE MADE FROM PVC COMPONENTS IN ACCORDANCE WITH ASTM D1784. THE GASKET SHALL CONFORM TO ASTM F477.
- T.B. DENOTES TEST BORING.

- WATER MAINS AND WATER HOUSE CONNECTION LINES MUST BE PLACED AS TO HAVE ONE (1) FOOT SEPARATION FROM THE SEWER MAIN OR SEWER HOUSE CONNECTION AS THEY PASS ABOUT IT.
- DUCTILE IRON WATER MAIN OR OFFSETS OF EXISTING MAINS SHALL CONFORM TO AWWA C150 AND C151. CLASS OF PIPE SHALL BE SPECIAL CLASS 52 FOR DIP IN ACCORDANCE WITH AWWA C150 TABLE 50.15. THE MINIMUM ACCEPTABLE PRESSURE RATING SHALL BE 250 PSI, IF COMPACT FITTINGS ARE USED THEN THE MINIMUM ACCEPTABLE PRESSURE RATING SHALL BE 350 PSI. INSTALLATION SHALL BE IN ACCORDANCE WITH AWWA C600. JOINTS: USE PUSH-ON OR MECHANICAL JOINTS CONFORMING WITH ALL APPLICABLE PROVISIONS OF AWWA C111. OR RESTRAINED JOINTS AS SHOWN WHERE FLANGED FITTINGS ARE REQUIRED FOR CONNECTIONS. VERIFY AND COORDINATE BOLT HOLE DRILLING WITH MANUFACTURER.
- TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3-1/2" COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, (410) 313-2450 AT LEAST FIVE WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BORING OPERATION IN COUNTY ROADS FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(g) OF THE HOWARD COUNTY CODE.
- PARKING LOT: USE MINIMUM WIRE #10AWG FOR LIGHT CIRCUITS. USE PVC CONDUIT 1-1/4" DIRECT BURIED 30" BELOW FINISHED GRADE.
- EXTERIOR LIGHTING POLES SHALL BE SQUARE STRAIGHT STEEL 6"x6", 7 GAUGE, 30' HEIGHT, AND SET 2' BEHIND THE CURB. SEE DETAIL SHEET C-25
- ALL POLE LIGHTS SHALL BE TYPE "H".
- FOR PROPOSED LANDSCAPING, SEE SHEET C-16.
- THE CONTRACTOR IS ALERTED THAT IN THE AREA OF THE STORMWATER MANAGEMENT THERE IS EXISTING SECURITY MONITORING EQUIPMENT THAT MUST BE RELOCATED AS DIRECTED BY THE ENGINEER.

PIPE SCHEDULE	
PIPE CLASS	LENGTH IN FT.
74" RCCP	70
15" HDPE	243
15" RCCP	8
12" HDPE	35
30" RCCP	72
8" PERF PVC	170
6" PVC	75

M-3

- FOR DIMENSIONS OF HOWARD COUNTY CENTRAL BOOKING AND DISTRICT COURT COMMISSIONERS FACILITY, SEE PLAN 'A' THIS SHEET.
- FOR DIMENSIONS OF EXIST. DETENTION CENTER, SEE SHEET C-2
- MODULAR BUILDING TO BE REMOVED BY OTHERS.



FOR CONTINUATION SEE SHEET C-10

LEGEND

- EXISTING UTILITIES TO BE REMOVED
- C.O. CLEAN OUT
- EXISTING TREE TO BE REMOVE
- TYPE "H" LIGHT FIXTURE
- TYPE "T" LIGHT FIXTURE

SCHEDULE OF LIGHTING FIXTURES					
TYPE	DESCRIPTION	VOLTS	LAMPS	MOUNTING	MANUFACTURER AND CATALOG NUMBER
F	HPS EXTERIOR SECURITY WALL PACK WITH WIRE GUARDS 208V 400W WITH QUARTZ RESTRIKE LAMPS.	208	(1) HPS 400W 50000 LUMENS	SURFACE	LITHONIA: TWH 400S 208 WG
H	HPS AREA OUTDOOR LUMINARIE ASYMMETRIC CUTOFF, HOUSE SHIELDS REG. 400W 208V	208	(1) HPS 400W 50000 LUMENS	POLE 30'	LITHONIA: KVE2 400S ASYC

THE SUBJECT PROPERTY IS ZONED M-2 PER THE 10-18-93 COMPREHENSIVE ZONING PLAN

Approved: Department of Planning and Zoning
 Director: *Maria De la Cruz* Date: 3/18/03
 Chief, Division of Land Development: *Andy Krametz* Date: 3/18/03
 Chief, Development Engineering Division: *John P. ...* Date: 3/18/03

SUBDIVISION NAME HOWARD COUNTY DETENTION CENTER	SECTION/AREA N/A	PARCEL NO 660
LIBER/FOLIO 2116/282 1099/368 1899/1324	BLOCK NO 9.10 AND 15	ZONING M-2
TAX MAP 43	GRID NO 9	HOWARD CO. CENSUS TR. ELEC. DIST. NO-1
WATER CODE R01	SEWER CODE 2221000	CENSUS TR. 6012.02

PROPOSED IMPROVEMENTS:
BUILDING ADDITION, SEE SITE ANALYSIS CHART FOR APPLICABLE DPZ FILE.
REFERENCE DPZ FILE REF. FOR CURRENT PROJECT SDP-02-20

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ati Architects Engineers and Construction Consultants
 8950 Route 108 Suite 218
 Columbia Maryland 21045 (410)985-4067 Fax(410)992-1837

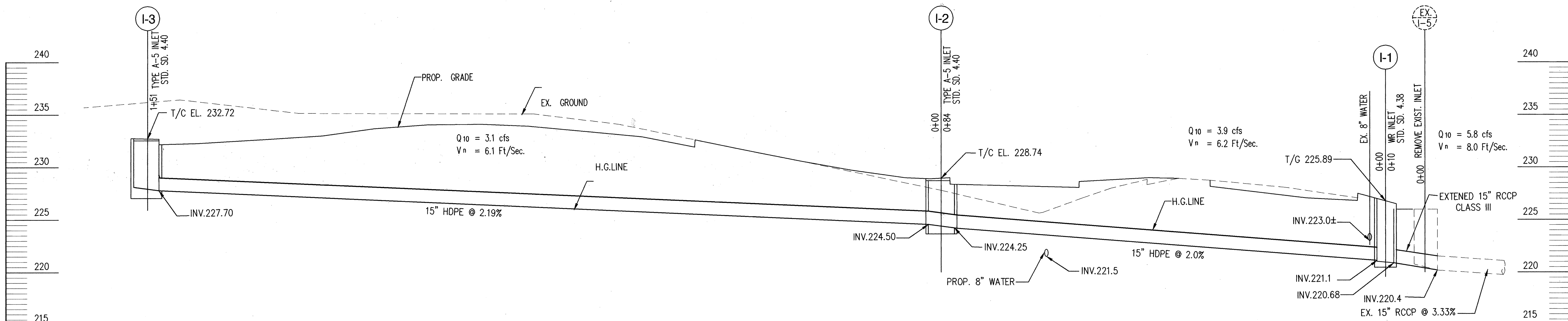


DCI CONSULTING ENGINEERING AND PLANNING
 8950 Rt. 108 E., Suite 229 Columbia, MD. 21045
 Phone: 410-995-0090 Fax: 410-992-7038

REVISIONS		
NO.	DATE	DESCRIPTION
1	3/12/03	ADDENDUM NO. 1
2	3/18/03	REDLINE REVISION

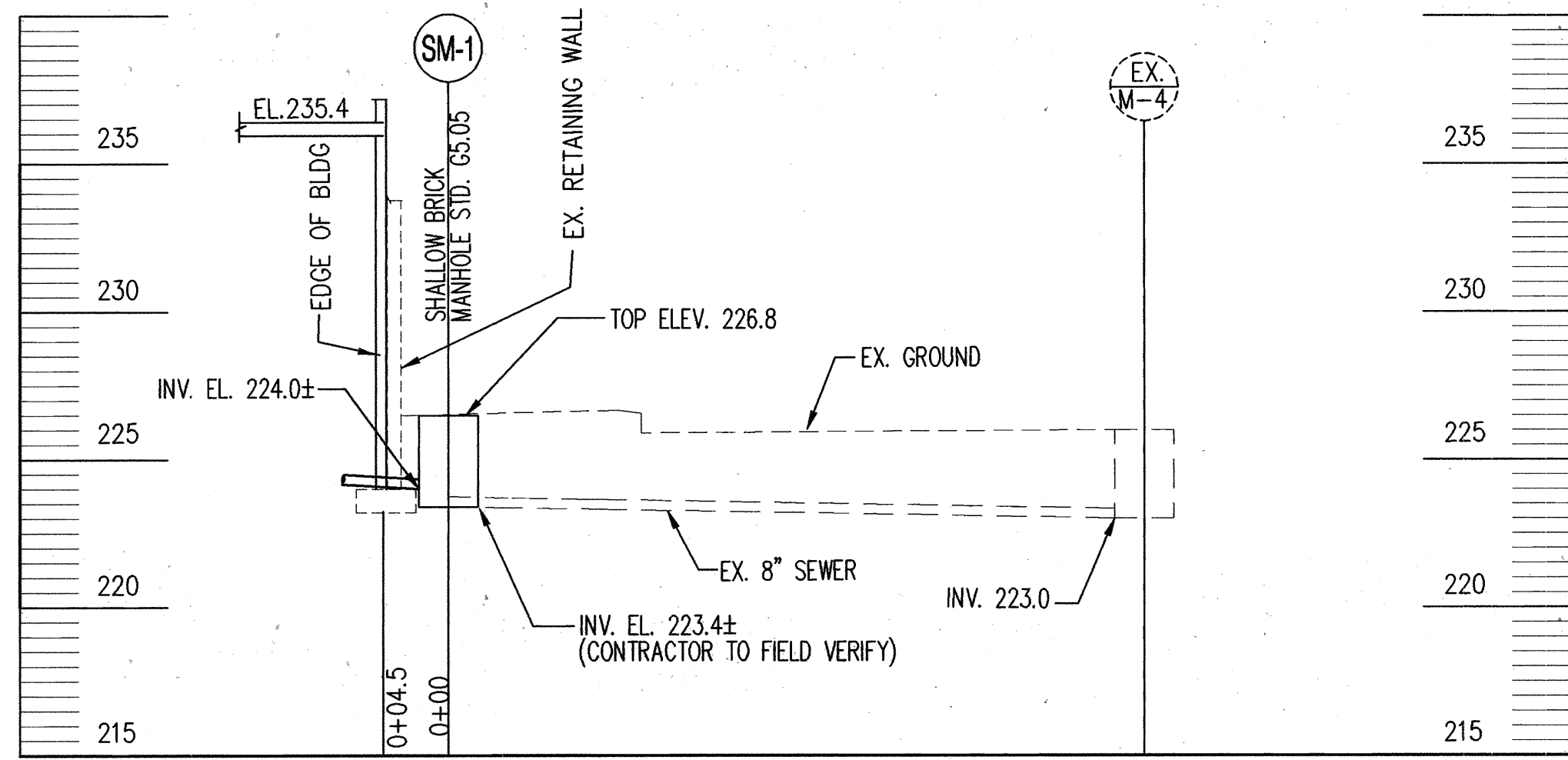
UTILITY PLAN
 HOWARD COUNTY CENTRAL BOOKING & DISTRICT COURT COMMISSIONERS FACILITY
 HOWARD COUNTY, MARYLAND
 DATE: FEBRUARY 21, 2003

CAPITAL PROJECT NO.
 P - 4916
C-7
 SET SHEET 7 of 25



PROFILE - PROP. STORM DRAIN

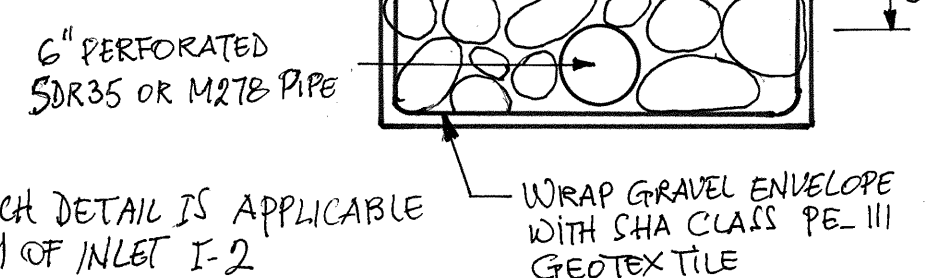
SCALE: HORZ=1"=10'
VERT.=1"=5'



PROFILE - PROP. SANITARY SEWER

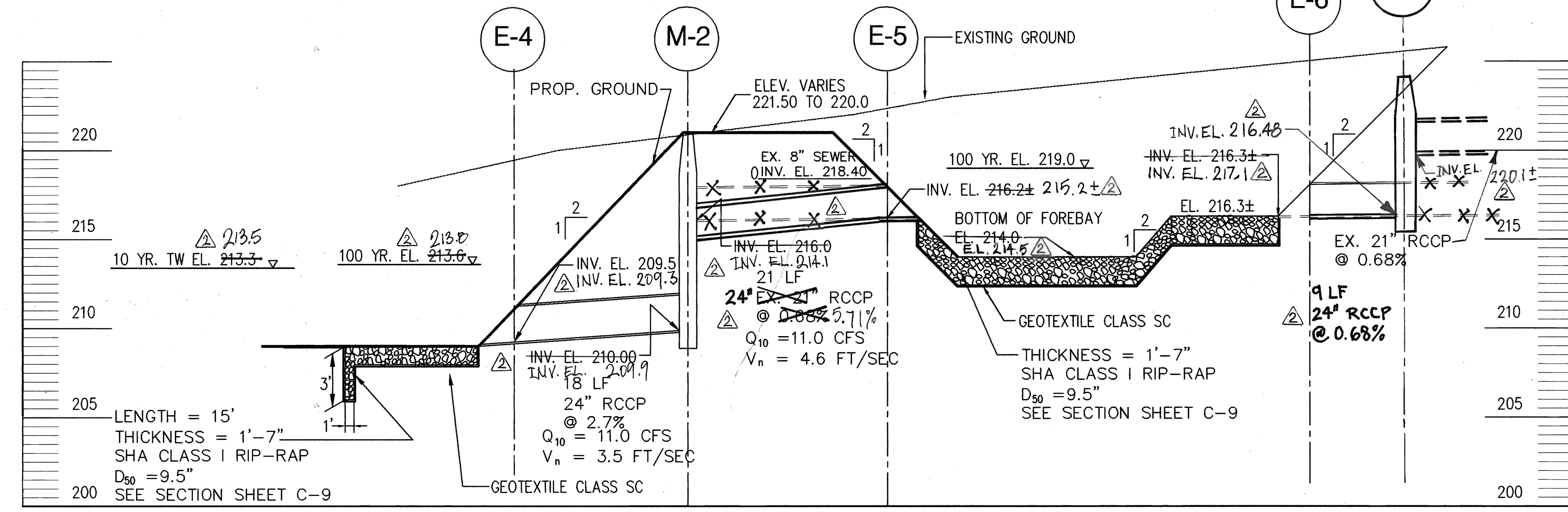
SCALE: HORZ=1"=10'
VERT.=1"=5'

NOTE:
THIS TRENCH DETAIL IS APPLICABLE
UPSTREAM OF INLET I-2



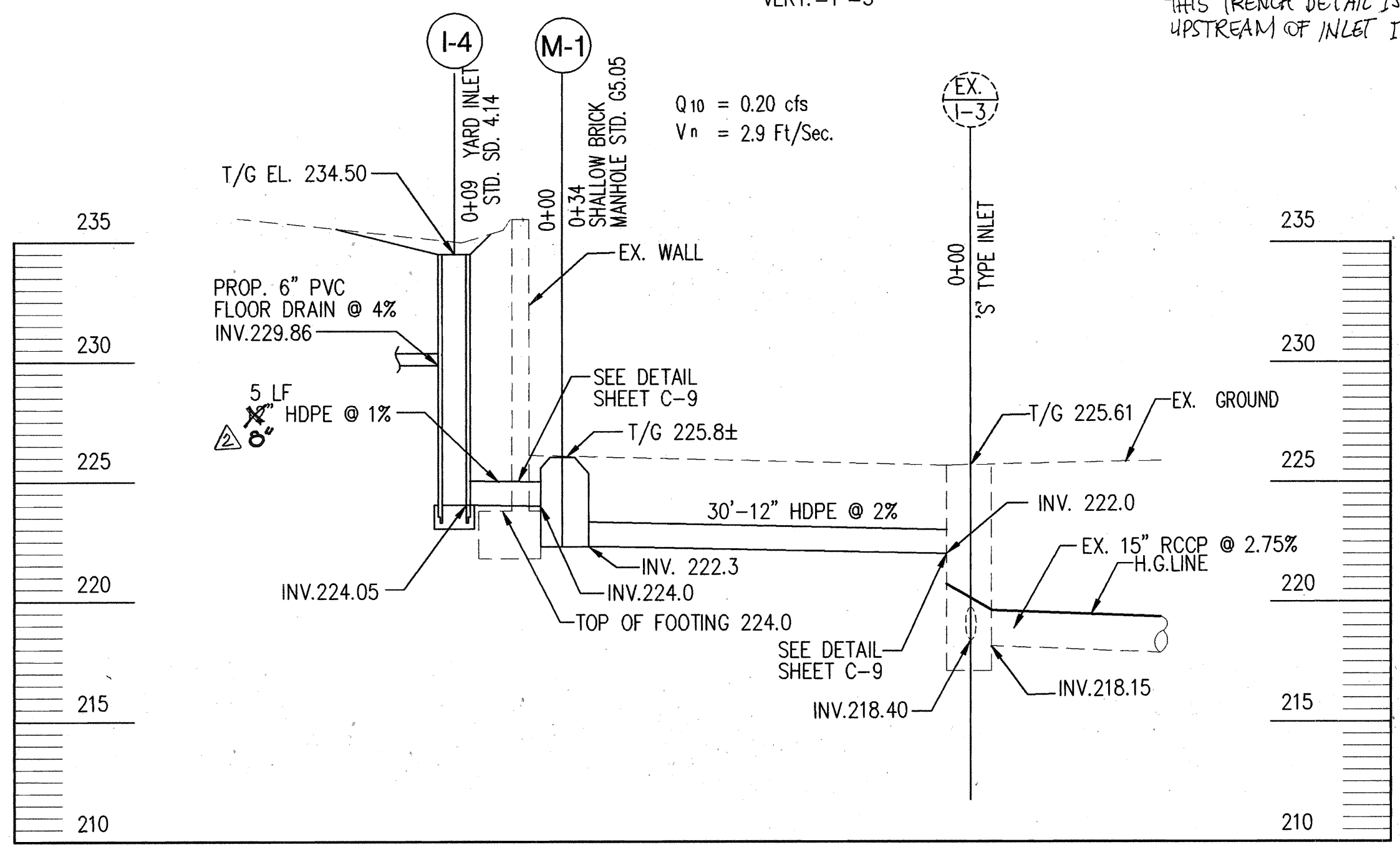
SECTION A-A

NOT TO SCALE



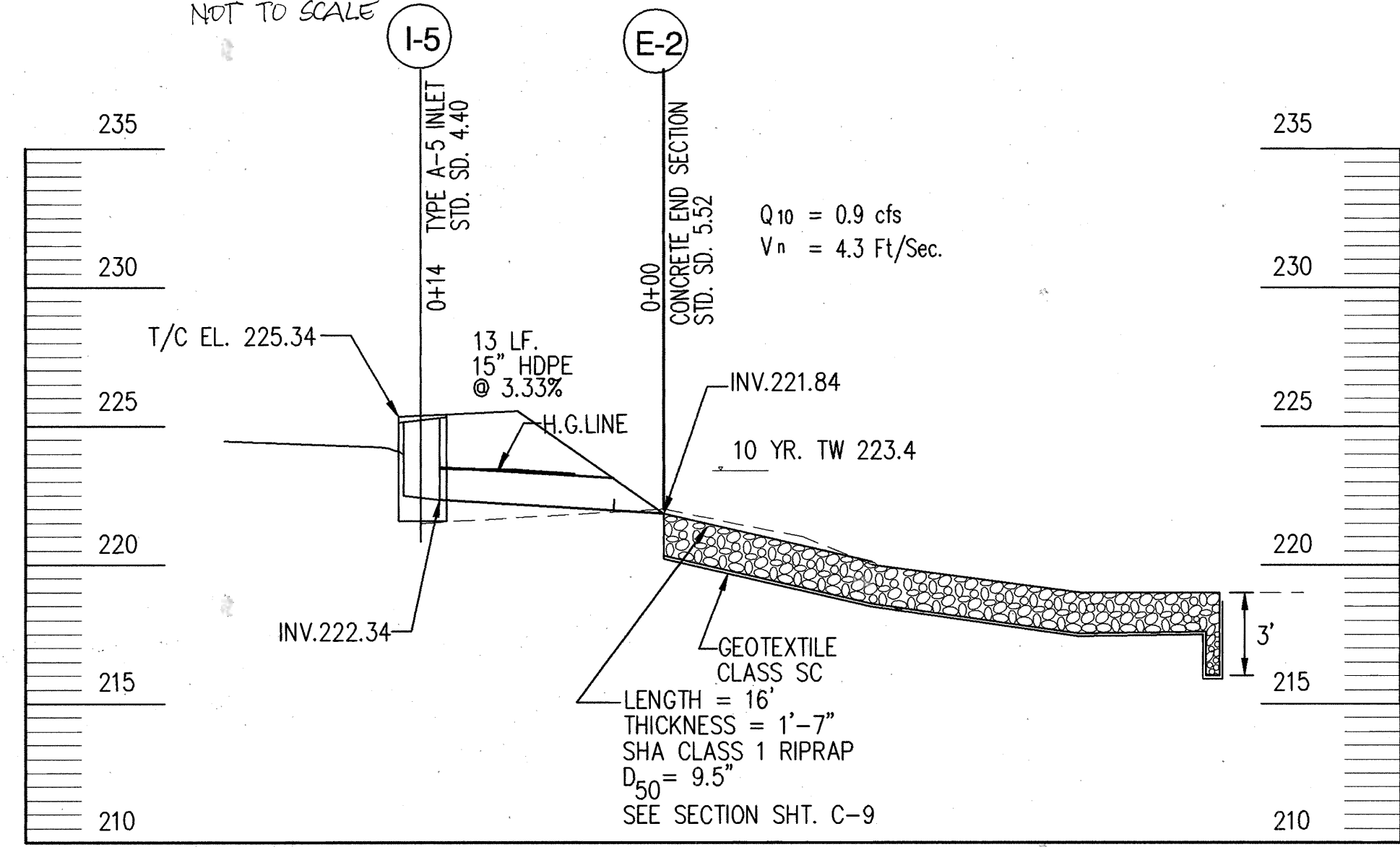
PROFILE PROPOSED STORM DRAIN

SCALE: 1" = 10' HORIZ.
1" = 5' VERT.



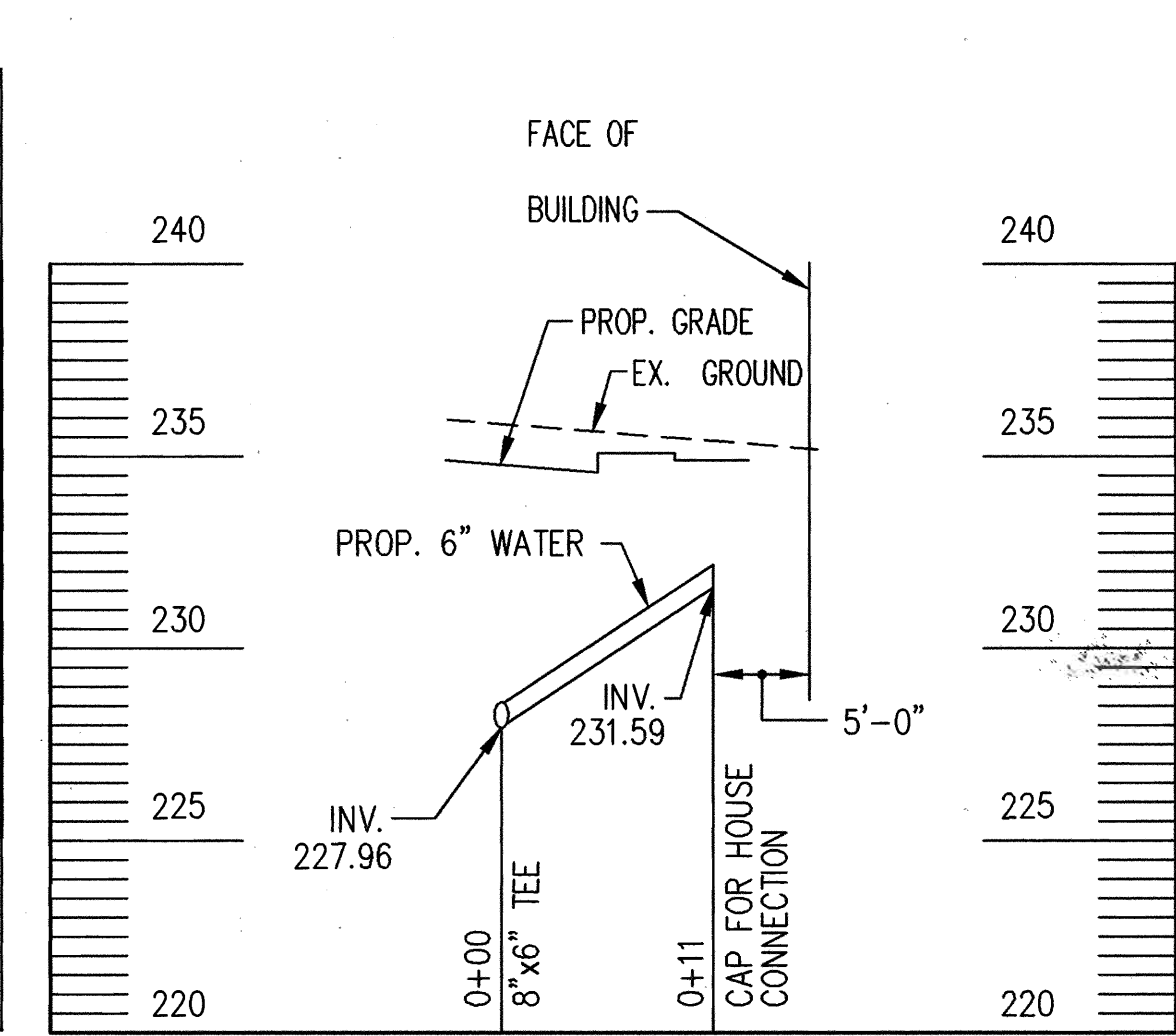
PROFILE - PROP. STORM DRAIN

SCALE: HORZ=1"=10'
VERT.=1"=5'



PROFILE - PROP. STORM DRAIN

SCALE: HORZ=1"=10'
VERT.=1"=5'



PROFILE - PROP. 6" WHC

SCALE: HORZ=1"=10'
VERT.=1"=5'

*SEE GENERAL NOTES 11 ON SHEET C-7 FOR MATERIAL TYPES

THE SUBJECT PROPERTY IS ZONED M-2 PER THE 10-18-93
COMPREHENSIVE ZONING PLAN

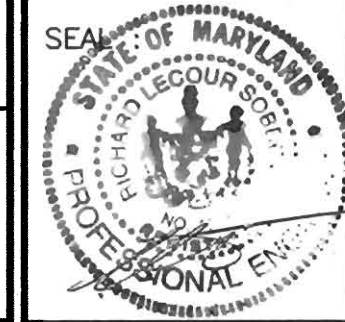
Approved: Department of Planning and Zoning
Director: *David D. Wright* Date: 3/10/03
Chief, Division of Land Development: *Andy Remick* Date: 2/14/03
Chief, Development Engineering Division: *Chris Williams* Date: 2/5/03

SUBDIVISION NAME HOWARD COUNTY DETENTION CENTER		SECTION/AREA N/A	PARCEL NO. 660
LIBER/FOLIO 2116/282 1009/368 15840, 15841	BLOCK NO 9, 10 AND 15	ZONING M-2	TAX MAP GRID NO 43 9
HOWARD CO. ELEC. DIST. NO-1		CENSUS TR. 6012.02	SEWER CODE 2221000

PROPOSED IMPROVEMENTS
BUILDING ADDITION, SEE SITE ANALYSIS CHART FOR APPLICABLE DPZ FILE
REFERENCE DPZ FILE REF. FOR CURRENT PROJECT SDP-02-20

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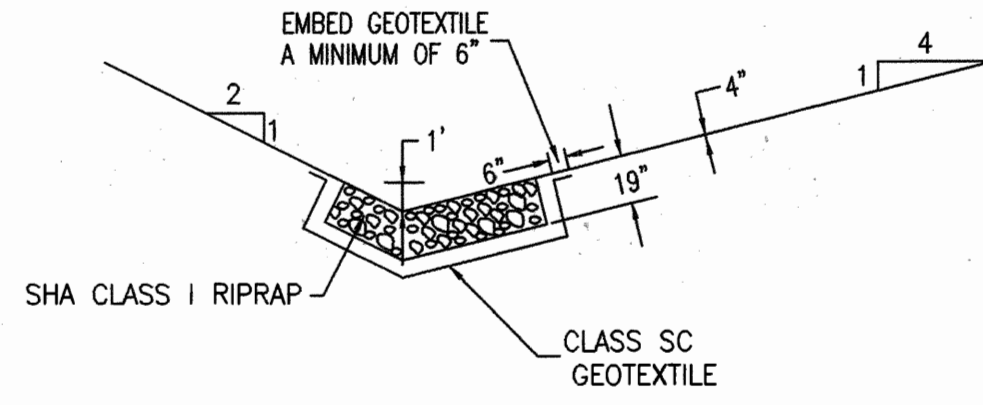
REVISIONS		
NO.	DATE	DESCRIPTION
2	9/15/03	REDLINE REVISION

UTILITY PROFILES I
HOWARD COUNTY CENTRAL BOOKING &
DISTRICT COURT COMMISSIONERS FACILITY
HOWARD COUNTY, MARYLAND
DATE: FEBRUARY 21, 2003

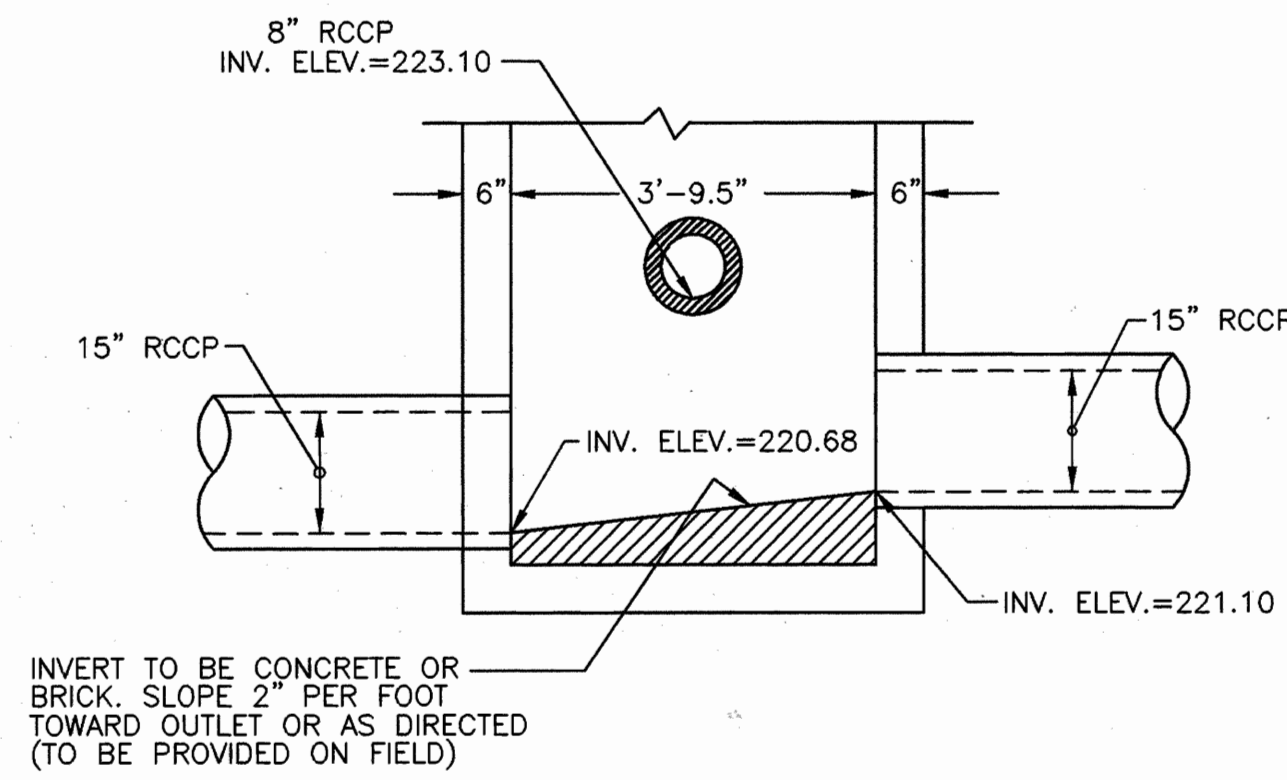
CAPITAL PROJECT NO.
 P - 4916
C-8
SET SHEET 8 OF 25
SDP-02-20

CONSTRUCTION SPECIFICATIONS

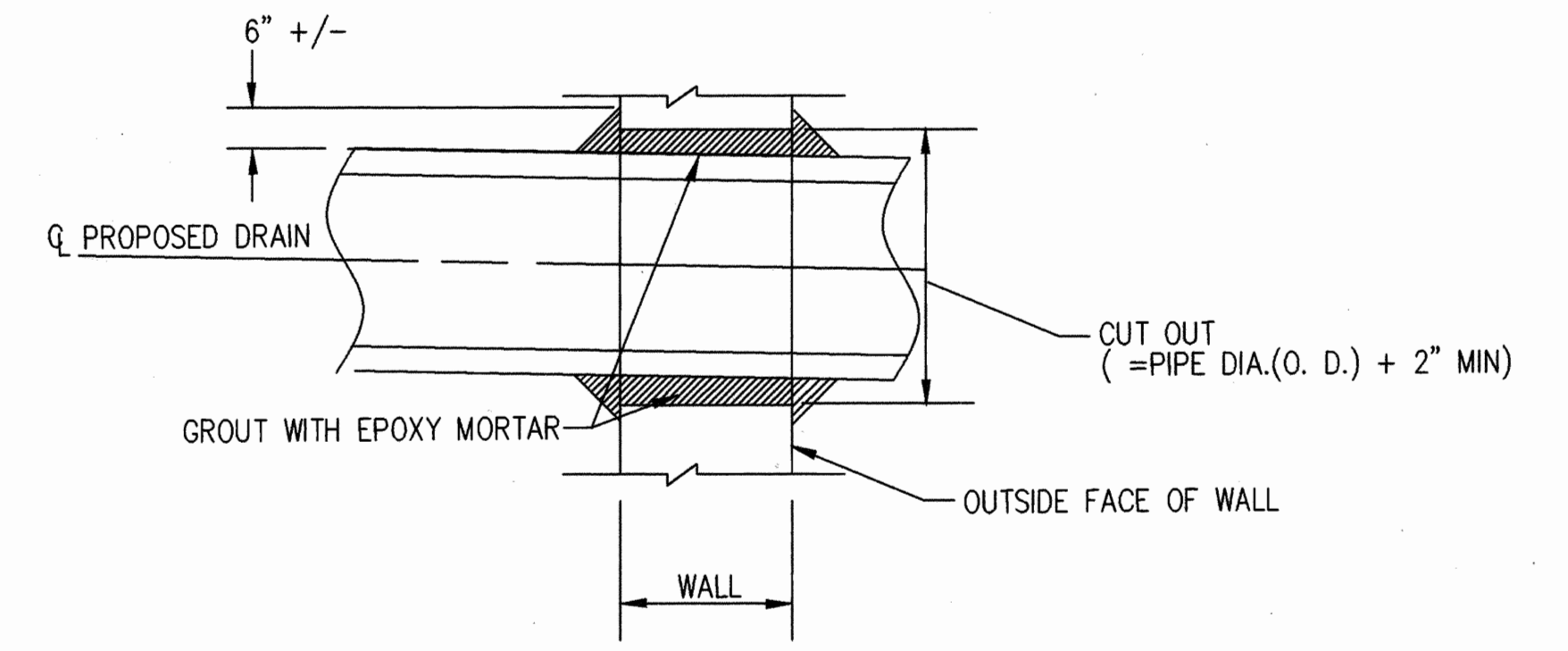
1. THE SUBGRADE FOR THE FILTER, RIPRAP SHALL BE PREPARED TO THE REQUIRED LINES AND GRADES. ANY FILL REQUIRED IN THE SUBGRADE SHALL BE COMPACTED TO A DENSITY OF APPROXIMATELY THAT OF THE SURROUNDING UNDISTURBED MATERIAL.
2. THE ROCK OR GRAVEL SHALL CONFORM TO THE SPECIFIED GRADING LIMITS WHEN INSTALLED RESPECTIVELY IN THE RIPRAP OR FILTER.
3. GEOTEXTILE SHALL BE PROTECTED FROM PUNCHING, CUTTING, OR TEARING. ANY DAMAGE OTHER THAN AN OCCASIONAL SMALL HOLE SHALL BE REPAIRED BY PLACING ANOTHER PIECE OF GEOTEXTILE OVER THE DAMAGED PART OR BY COMPLETELY REPLACING THE GEOTEXTILE. ALL OVERLAPS WHETHER FOR REPAIRS OR FOR JOINING TWO PIECES OF GEOTEXTILE SHALL BE A MINIMUM OF ONE FOOT.
4. STONE FOR THE RIPRAP OUTLETS MAYBE PLACED BY EQUIPMENT. THEY SHALL BE CONSTRUCTED TO THE FULL COURSE THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO AVOID DISPLACEMENT OF UNDERLYING MATERIALS. THE STONE FOR RIPRAP OUTLETS SHALL BE DELIVERED AND PLACED IN A MANNER THAT WILL ENSURE THAT IT IS REASONABLY HOMOGENOUS WITH THE SMALLER STONE AND SPALLS FILLING THE VOIDS BETWEEN THE LARGER STONES. RIP-RAP SHALL BE PLACED IN A MANNER TO PREVENT DAMAGE TO THE FILTER BLANKET OR GEOTEXTILE. HAND PLACEMENT WILL BE REQUIRED TO THE EXTENT NECESSARY TO PREVENT DAMAGE TO THE PERMANENT WORKS.
5. THE STONE SHALL BE PLACED SO THAT IT BLENDS IN WITH THE EXISTING GROUND.



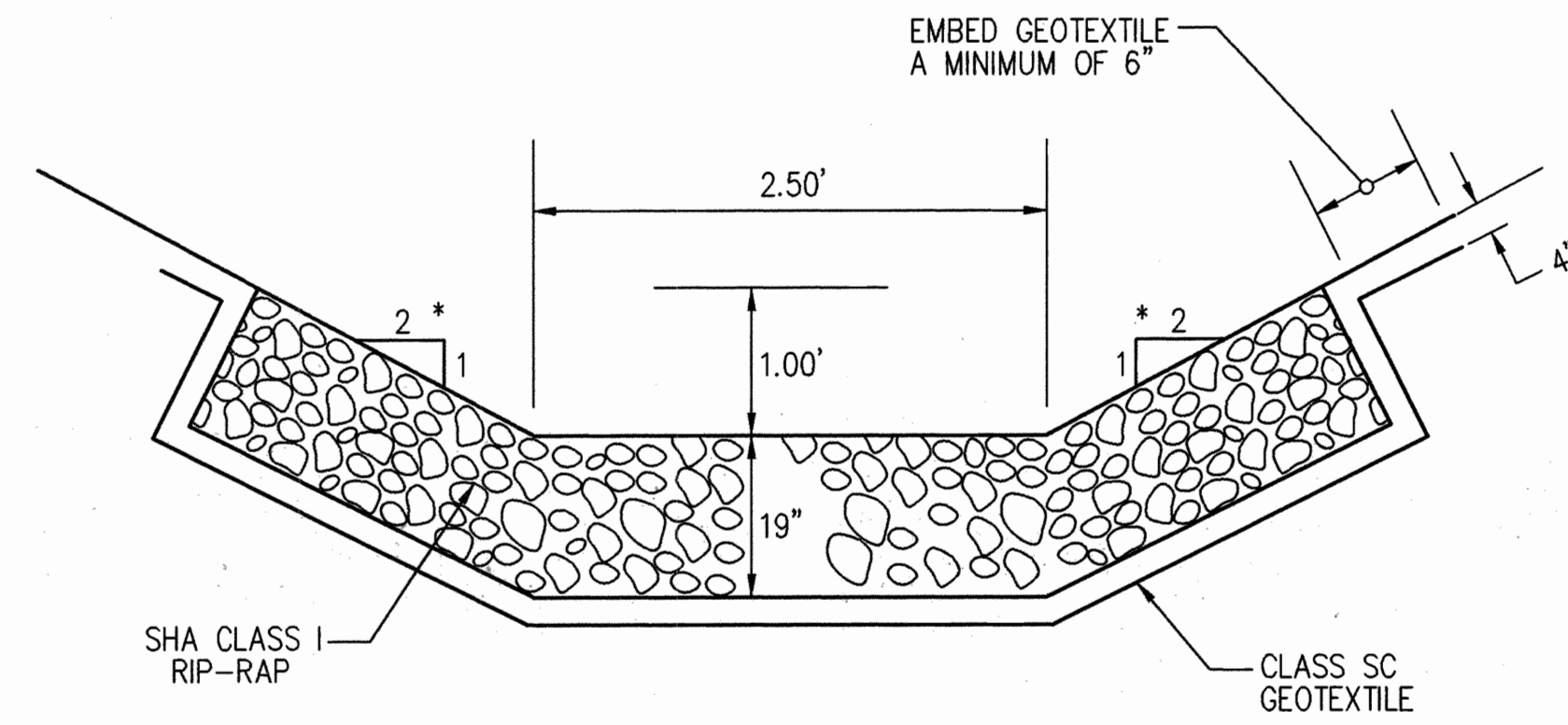
DITCH SECTION BELOW E-2
N.T.S.



WR-INLET MODIFICATION DETAILS
SCALE: 1/2" = 1'-0"

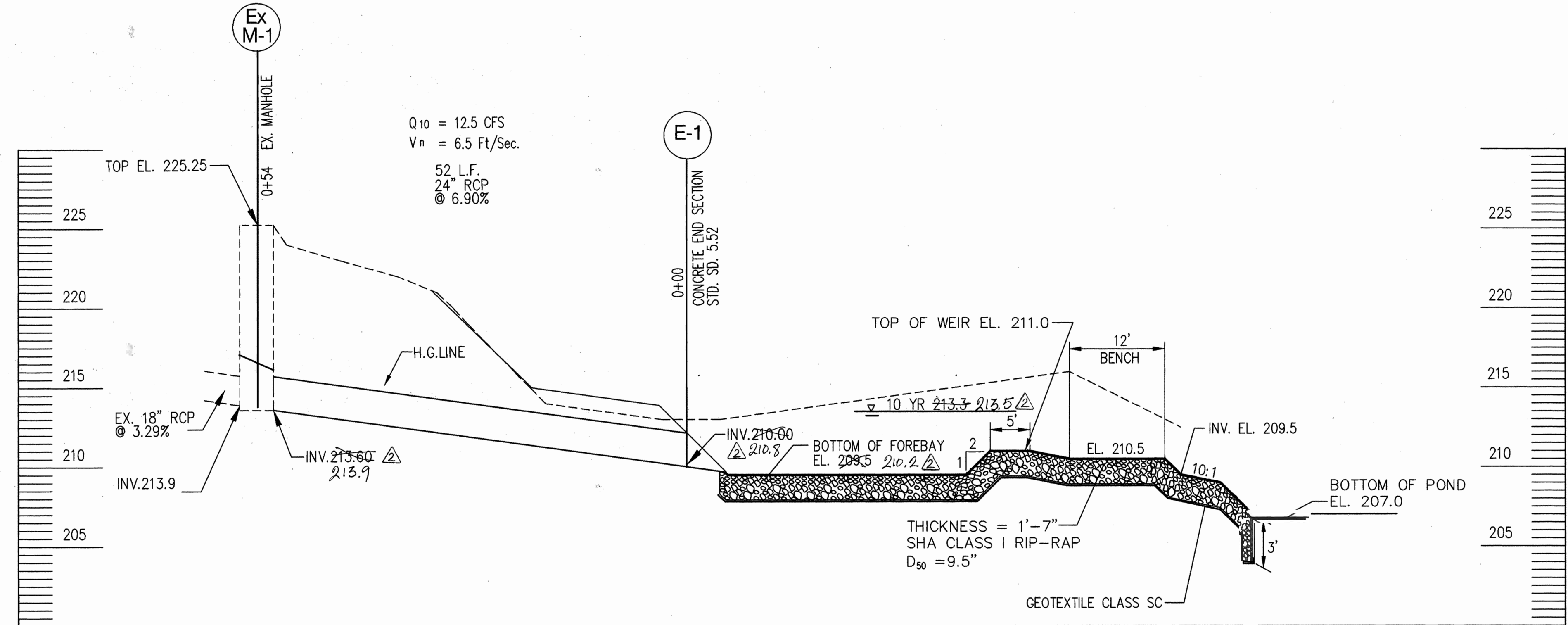


CUT IN THRU WALL
SCALE: 1/2" = 1'-0"

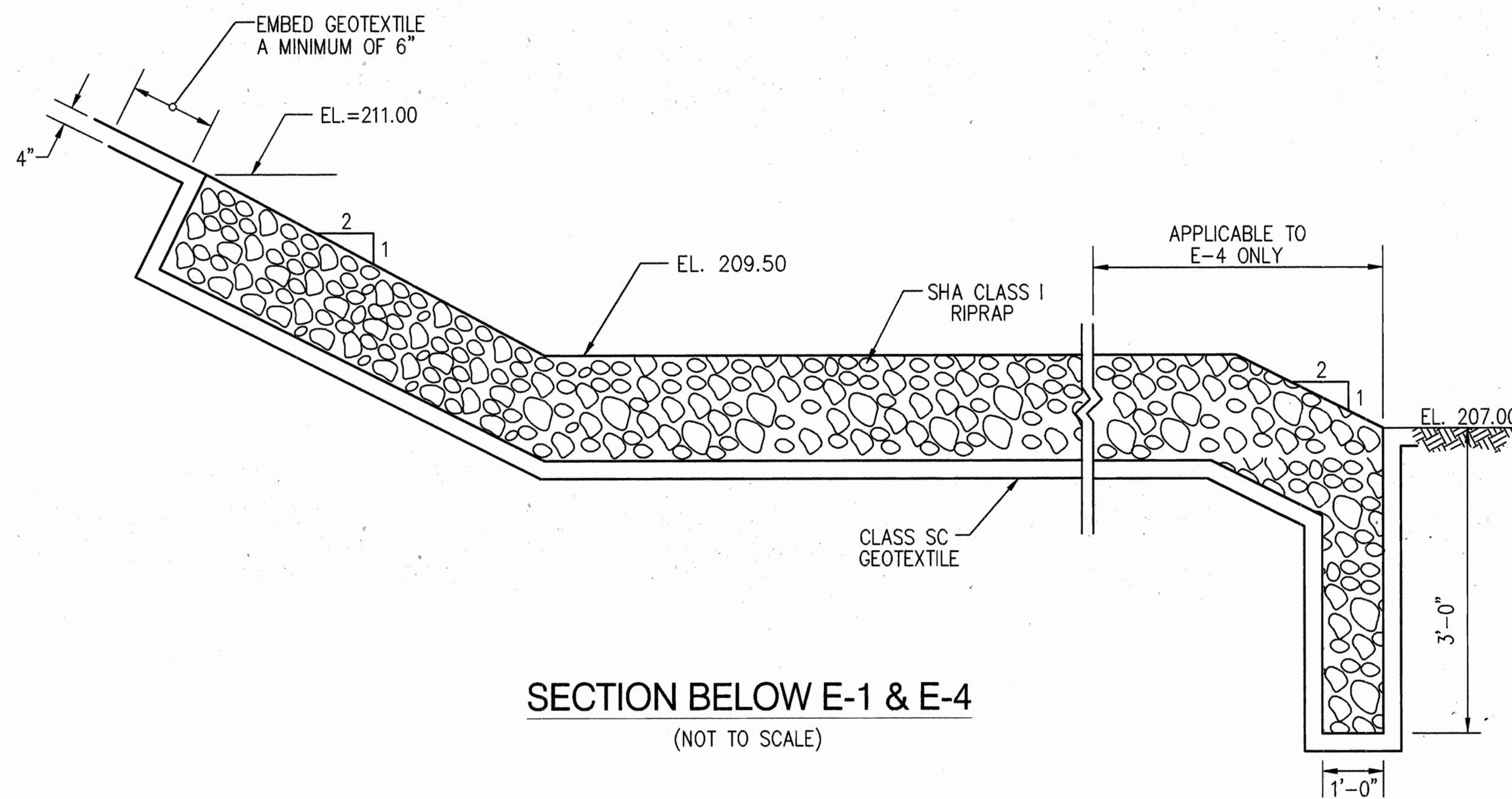


SECTION BELOW E-3
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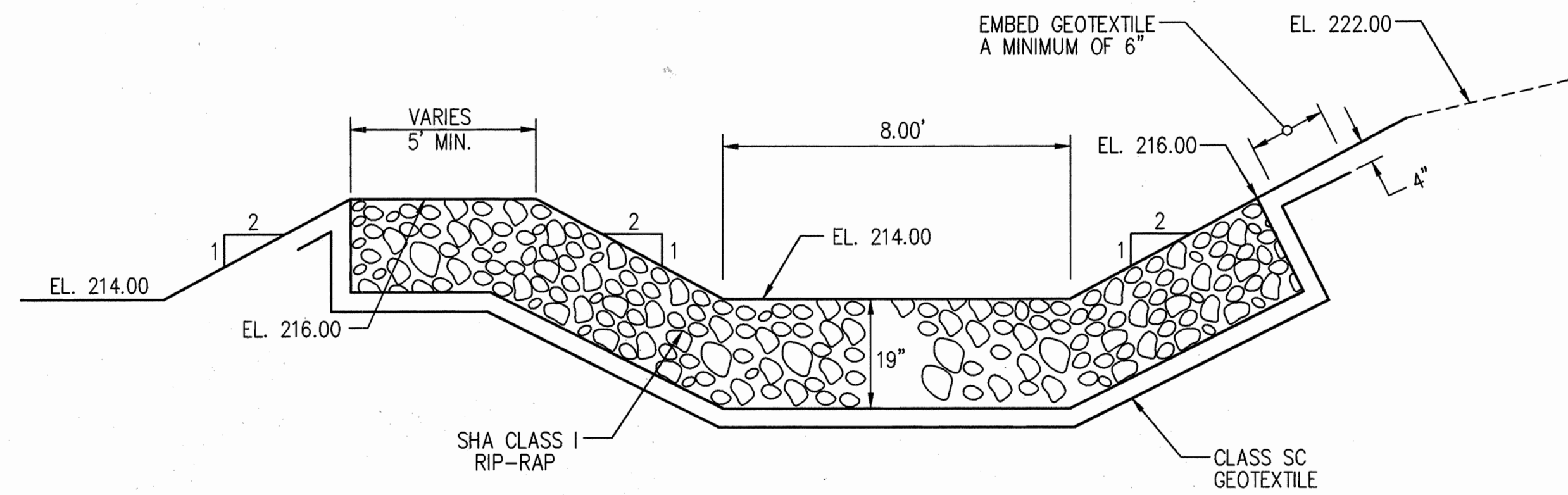
* VARY SIDESLOPE TO MEET EXISTING GROUND AT DOWNSTREAM END OF APRON.



PROFILE - PROP. STORM DRAIN
SCALE: HORIZ. 1"=10'
VERT. 1"=5'



SECTION BELOW E-1 & E-4
(NOT TO SCALE)



SECTION THRU OVERFLOW WEIR SEPARATING FOREBAY AND INFILTRATION BASIN
(NOT TO SCALE)

THE SUBJECT PROPERTY IS ZONED M-2 PER THE 10-18-93 COMPREHENSIVE ZONING PLAN

Approved: Department of Planning and Zoning		
Director <i>David D. Cooper</i>	Date 3/10/03	
Chief, Development Division <i>Kevin Starnes</i>	Date 3/11/03	
Chief, Development Engineering Division <i>Mike Dammon</i>	Date 3/5/03	
SUBDIVISION NAME HOWARD COUNTY DETENTION CENTER	SECTION/AREA N/A	PARCEL NO. 660
LIBER/FOLIO 2116/282 1005/368	BLOCK NO. 9,10 AND 15	ZONING M-2
TAX MAP 43	GRID NO. 9	HOWARD CO. CENSUS TR. ELEC. DIST. NO-1
WATER CODE B01	SEWER CODE 2221000	6012.02
PROPOSED IMPROVEMENTS BUILDING ADDITION. SEE SITE ANALYSIS CHART FOR APPLICABLE DPZ FILE REFERENCE DPZ FILE REF. FOR CURRENT PROJECT SDP-02-20		

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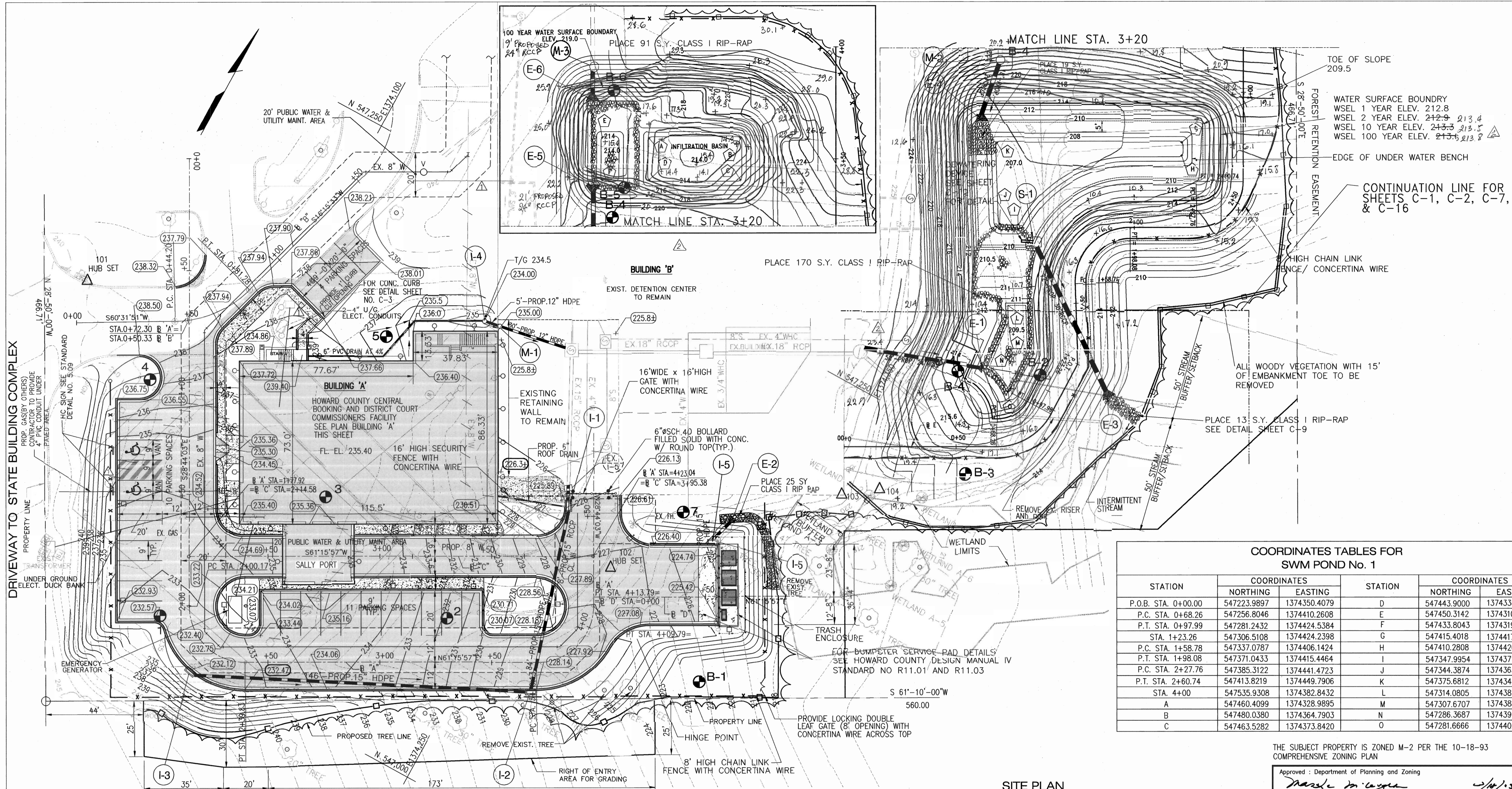


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REVISIONS		
NO.	DATE	DESCRIPTION
1	3/15/03	REDLINE REVISION

UTILITY PROFILES II
HOWARD COUNTY CENTRAL BOOKING &
DISTRICT COURT COMMISSIONERS FACILITY
HOWARD COUNTY, MARYLAND
DATE: FEBRUARY 21, 2003

CAPITAL PROJECT NO.
 P - 4916
C-9
SET SHEET 9 of 25
SDP-02-20



TOE OF SLOPE
209.5

WATER SURFACE BOUNDARY
WSEL 1 YEAR ELEV. 212.8
WSEL 2 YEAR ELEV. 212.9 213.4
WSEL 10 YEAR ELEV. 213.3 213.5
WSEL 100 YEAR ELEV. 213.5 213.8

EDGE OF UNDER WATER BENCH

CONTINUATION LINE FOR SHEETS C-1, C-2, C-7, & C-16

FOREST RETENTION EASEMENT

HIGH CHAIN LINK FENCE/ CONCERTINA WIRE

ALL WOODY VEGETATION WITH 15' OF EMBANKMENT TOE TO BE REMOVED

PLACE 13' S.Y. CLASS I RIP-RAP SEE DETAIL SHEET C-9

50' STREAM BUFFER SETBACK

INTERMITTENT STREAM

REMOVE EXIST. RISER

WETLAND LIMITS

WETLAND A-6

WETLAND A-5

WETLAND A-8

WETLAND A-7

WETLAND A-9

WETLAND A-10

WETLAND A-11

WETLAND A-12

WETLAND A-13

WETLAND A-14

WETLAND A-15

WETLAND A-16

WETLAND A-17

WETLAND A-18

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WETLAND A-94

WETLAND A-95

WETLAND A-96

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WETLAND A-98

WETLAND A-99

WETLAND A-100

COORDINATES TABLES FOR SWM POND No. 1

STATION	COORDINATES		STATION	COORDINATES	
	NORTHING	EASTING		NORTHING	EASTING
P.O.B. STA. 0+00.00	547223.9897	1374350.4079	D	547443.9000	1374338.0412
P.C. STA. 0+68.26	547256.8046	1374410.2608	E	547450.3142	1374310.5754
P.T. STA. 0+97.99	547281.2432	1374424.5384	F	547433.8043	1374319.6271
STA. 1+23.26	547306.5108	1374424.2398	G	547415.4018	1374417.4647
P.C. STA. 1+58.78	547337.0787	1374406.1424	H	547410.2808	1374420.2723
P.T. STA. 1+98.08	547371.0433	1374415.4464	I	547347.9954	1374371.0373
P.C. STA. 2+27.76	547385.3122	1374441.4723	J	547344.3874	1374363.5382
P.T. STA. 2+60.74	547413.8219	1374449.7906	K	547375.6812	1374345.0653
STA. 4+00	547535.9308	1374382.8432	L	547314.0805	1374384.3136
A	547460.4099	1374328.9895	M	547307.6707	1374388.1085
B	547480.0380	1374364.7903	N	547286.3687	1374390.2087
C	547463.5282	1374373.8420	O	547281.6666	1374402.0366

SITE PLAN
SCALE 1"=20'

THE SUBJECT PROPERTY IS ZONED M-2 PER THE 10-18-93 COMPREHENSIVE ZONING PLAN

Approved: Department of Planning and Zoning
Maselle M. Caylor 3/12/03
 Director Date
Wanda Stewart 3/14/03
 Chief, Division of Land Development Date
John Williamson 3/14/03
 Chief, Development Engineering Division Date

DEVELOPER'S/LANDOWNER'S CERTIFICATION
 I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a Registered Professional Engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.
Michael A. Gordinello 3/12/03
 Signature Date
 Michael A. Gordinello
 Print Name MD. License No.

CONSULTANT'S HAZARD CLASS CERTIFICATION
 I certify that this pond meets all the requirements for hazard Class A. (Requirements as stated in the soil conservation service-Maryland standards and specifications for pond, code 378, November 1992) All necessary investigations and computations have been performed to verify this finding.
Richard Sobhoff 3/12/03
 Signature Date
 Richard Sobhoff
 Print Name MD. License No. 15222

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.
Jim Lynn 3/12/03
 U.S.D.A. Natural Resources Conservation Service Date

"AS-BUILT" CERTIFICATION
 I hereby certify that the facility shown on this plan was constructed as shown on the "As-Built" plans and meets the approved plans and specifications. I also certify that construction was inspected in accordance with the requirements of Howard County.
 Signature Date
 Print Name MD. License No.

ENGINEER'S CERTIFICATION
 I certify that these plans for pond construction, erosion and sediment control represent a practical and workable plans based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he/she must engage a Registered Professional Engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.
Richard Sobhoff 3/12/03
 Signature Date
 Richard Sobhoff
 Print Name MD. License No. 15222

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.
John Williamson 3/13/03
 Howard Soil Conservation District Date

SUBDIVISION NAME: HOWARD COUNTY DETENTION CENTER
 SEL/TUM/AREA: N/A
 PARCEL NO.: 660
 LIBER/FOLIO: 2116/282
 BLOCK NO.: 1009/368
 ZONING: 9, 10 AND 15
 TAX MAP: 43
 GRID NO.: 9
 HOWARD CO. ELEC. DIST. NO.: 1
 CENSUS TR. NO.: 6012.02
 WATER CODE: B01
 SEWER CODE: 2221000

PROPOSED IMPROVEMENTS
 BUILDING ADDITION, SEE SITE ANALYSIS CHART FOR APPLICABLE DPZ FILE REFERENCE DPZ FILE REF. FOR CURRENT PROJECT SDP-20

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lati Architects Engineers and Construction Consultants
 8950 Route 108 Suite 218
 Columbia Maryland 21045 (410)995-4067 Fax (410)992-1837



DCI CONSULTING ENGINEERING AND PLANNING
 8950 Rt. 108 E., Suite 229 Columbia, MD. 21045
 Phone: 410-995-0090 Fax: 410-992-7038

REVISIONS

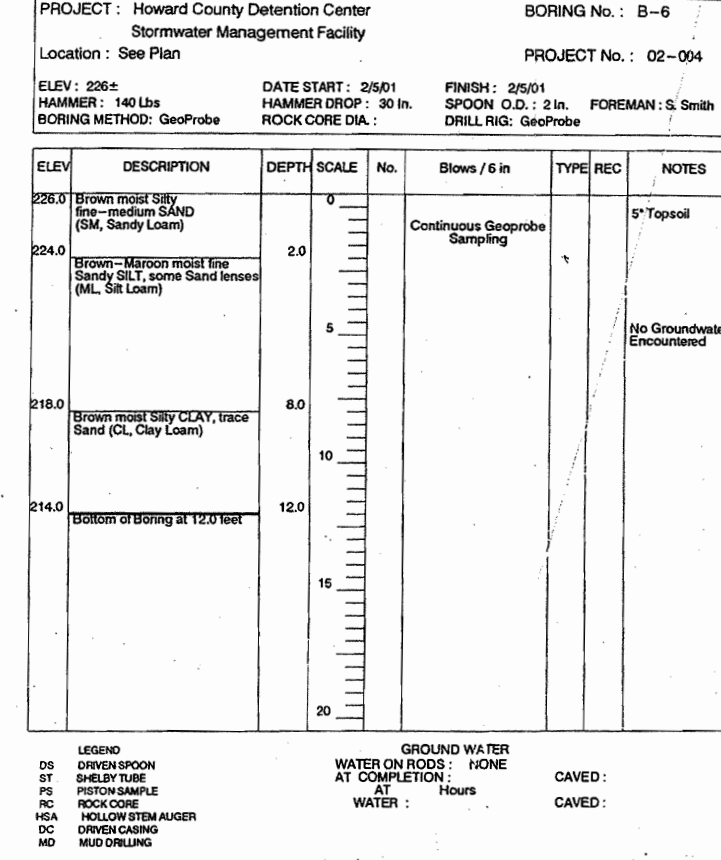
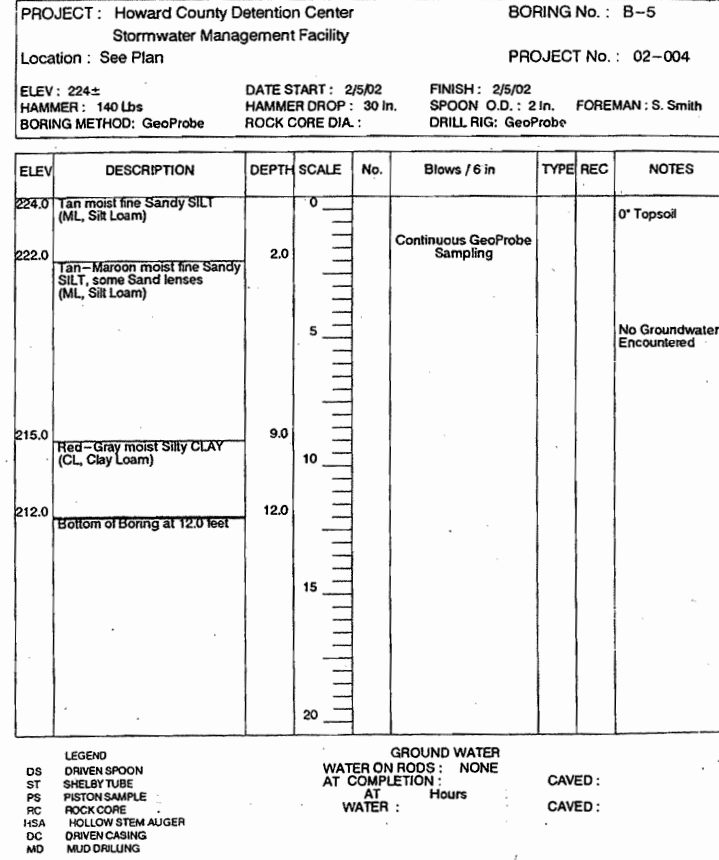
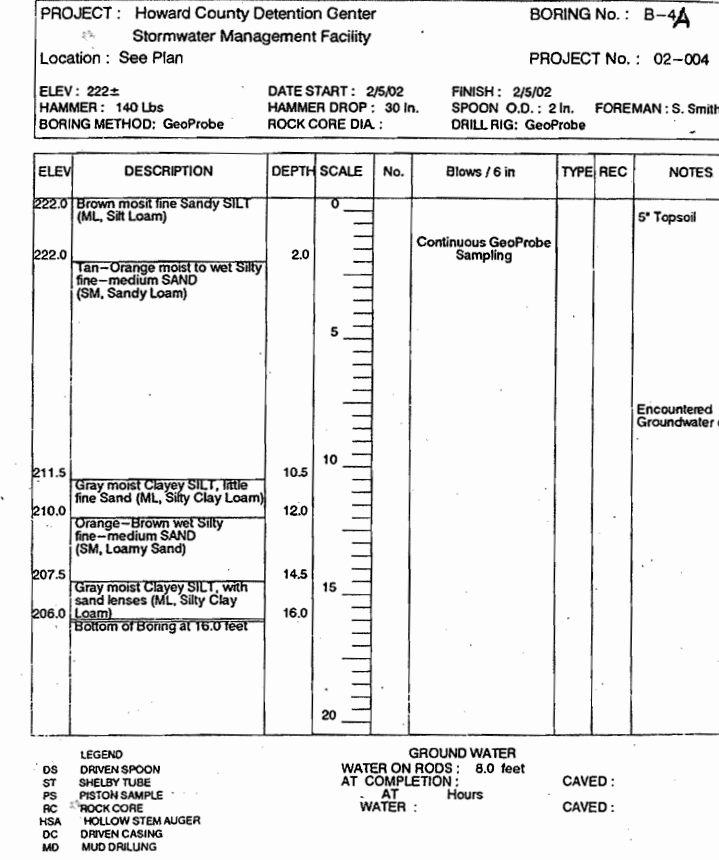
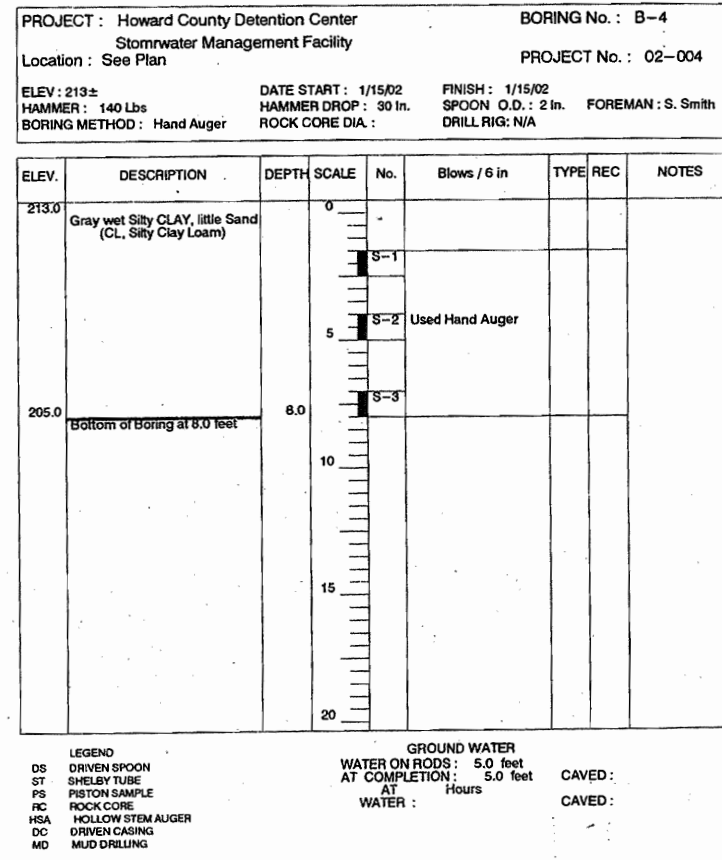
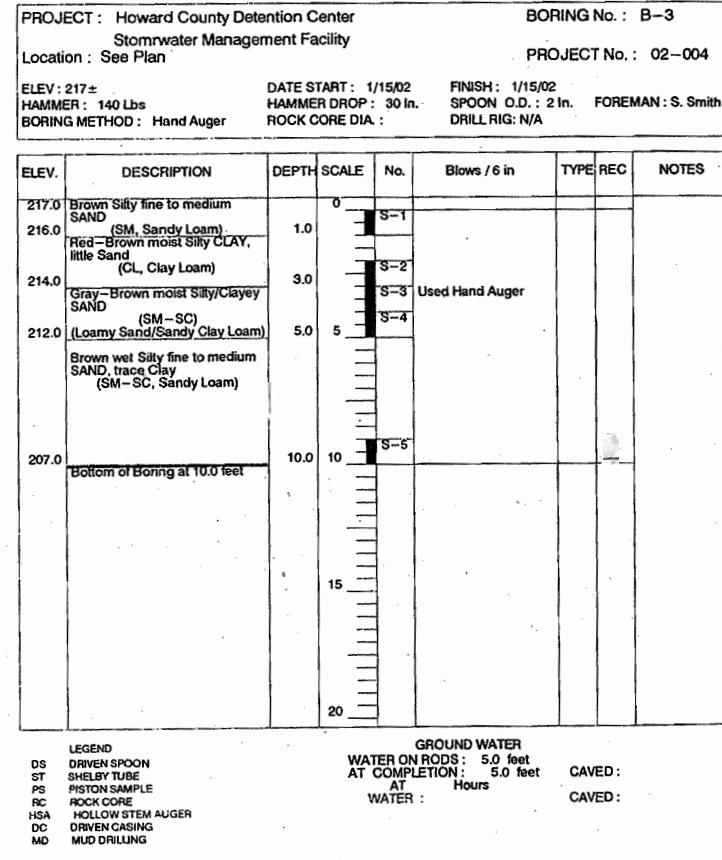
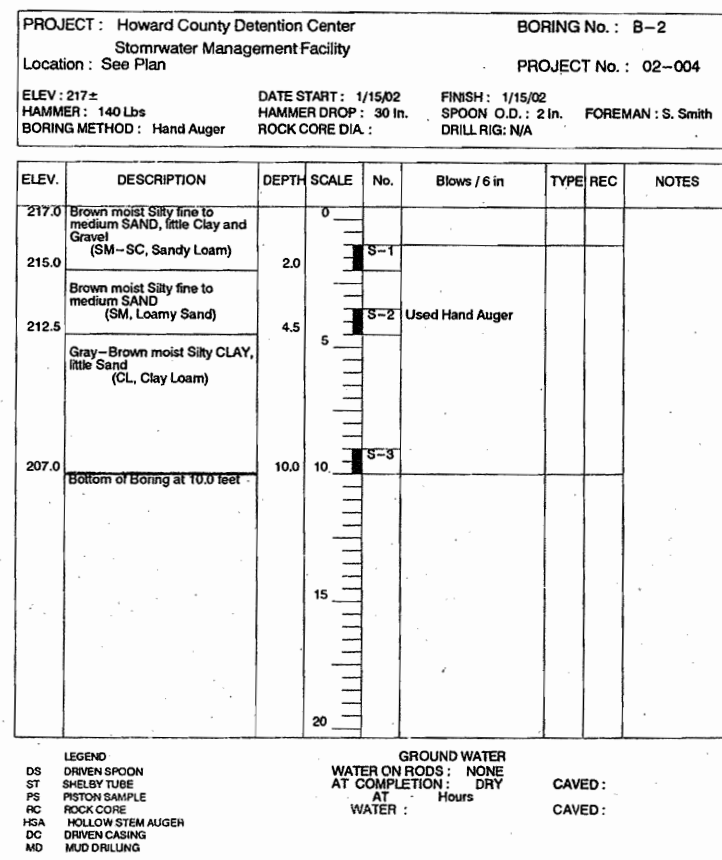
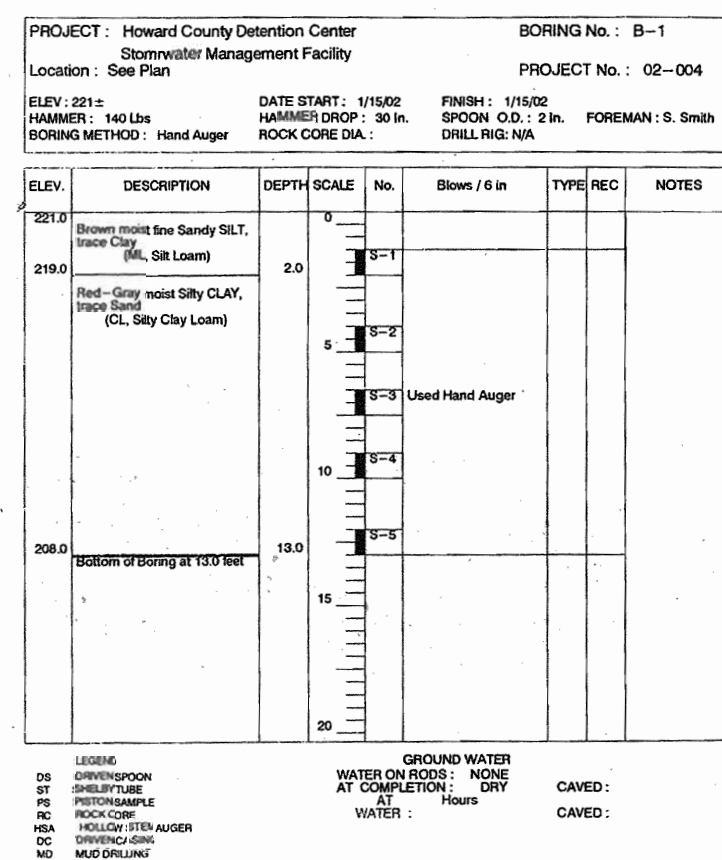
NO.	DATE	DESCRIPTION
1	3/12/03	ADDENDUM NO. 1
2	9/15/05	REDLINE REVISION

STORMWATER MANAGEMENT PLAN

HOWARD COUNTY CENTRAL BOOKING & DISTRICT COURT COMMISSIONERS FACILITY
 HOWARD COUNTY, MARYLAND

DATE: FEBRUARY 21, 2003

CAPITAL PROJECT NO. P-4916
C-10
 SET SHEET 10 OF 25
 SDP-02-20



BORINGS

CONCLUSION FROM APRIL 29, 2002 GEOTECHNICAL REPORT BY TIDEWATER INC.

- 1. THE CLAYEY SOILS ENCOUNTERED AT THE BOTTOM OF THE POND (BORING B-4) ARE NOT SUITABLE FOR INFILTRATION. IT IS THEREFORE NOT FEASIBLE TO USE INFILTRATION PRACTICES TO PROVIDE FOR THE WATER QUALITY VOLUME.

STORMWATER MANAGEMENT SUMMARY

CHANNEL PROTECTION VOLUME

DRAINAGE AREA 5.5 Ac
INFLOW CENTROID AT TIME 13.5 Hr
OUTFLOW CENTROID AT TIME 31.9 Hr
TIME LAG 18.4 Hr

OVERBANK FLOOD PROTECTION VOLUME

PRE-CONST. DRAINAGE AREA 9.5 Ac
PRE-CONST. RCN 67
PRE-CONST. Tc 33 Hr
PRE-CONST. DISCHARGE (1 yr.) 3.7 cfs

EXTREME FLOOD PROTECTION VOLUME

DRAINAGE AREA 5.5 Ac
EXTENDED DETENTION POCKET POND (PASS 100 Yr. EVENT WITH 2 FT. OF FREEBOARD

WATER QUALITY VOLUME

SITE AREA: 4.84 Ac
PERCENT IMPERVIOUS 72 %
WQV 10453 cfs ***
BMP EXTENDED DETENTION POCKET POND

RECHARGE VOLUME

SITE AREA: 4.84 Ac
PERCENT IMPERVIOUS 72 %
SOIL WEIGHTED RECHARGE FACTOR 0.15
REV 1845 cfs
BMP INFILTRATION BASIN

CONSTRUCTION CHECKLIST SWM POND NO. 1

Table with columns: POND ITEM, DESIGN ELEVATION (SETTLED), CONSTRUCTION ELEVATION, DESIGN SLOPE, CONSTRUCTION SLOPE, DESIGN LENGTH, CONSTRUCTION LENGTH, DESIGN WIDTH, CONSTRUCTION WIDTH, DESIGN DIAMETER, CONSTRUCTION DIAMETER.

PROJECT NAME: HOWARD COUNTY BOOKING COURT FACILITY
SCD FILE NO: SDP-02-20

OWNER INFORMATION: HOWARD COUNTY GOVERNMENT
ADDRESS: 3430 COURTHOUSE DRIVE
CITY: ELLICOTT CITY
STATE: MD. ZIP: 21043

(TO NEAREST 1000 FT)
EAST 1374350
NORTH 547250
COUNTY HOWARD
ADC MAP/GRID /

TYPE OF POND: EXCAVATED, EMBANKMENT, BOTH
DRAINAGE AREA: 5.5 ACRES
SURFACE AREA: 0.5 ACRES
NORMAL DEPTH: 4.0 FEET
DESIGN STORM FREQUENCY: 100 YEARS
STORAGE AT DESIGN HIGH WATER (DHW): 0.54 AC-FT

EMBANKMENT (CHECK ALL THAT APPLY)

- STORMWATER MGMT. - WET, DRY
INFILTRATION/WATER QUALITY
WATER SUPPLY/IRRIGATION
SAND & GRAVEL WASH POND
SEDIMENT CONTROL
LIVESTOCK
FLOOD CONTROL
RECREATION
BORROW MATERIAL
WETLAND MITIGATION
WILDLIFE/FISH
FIRE CONTROL
OTHER (SPECIFY):

EMBANKMENT TOP ELEVATION: 215.6 FT.
NORMAL POOL ELEVATION: 209.5 FT.
DHW WATER ELEVATION: 213.5 FT.

WILL EMBANKMENT SERVE AS A PUBLIC ROADWAY? YES X NO

PRINCIPAL SPILLWAY

BARREL SIZE: 30 INCHES
DESIGN CAPACITY AT DHW: 57.6 CFS
BCCMP: ALUM, PVC, CAST-IN-PLACE BOX CULVERT, WEIR, CHANNEL, OTHER: RCCP

EMERGENCY SPILLWAY

DESIGN CAPACITY AT DHW: N/A CFS
VELOCITY: FT/SEC
CREST ELEV.: FT
SIDE SLOPES: :1
SPILLWAY PROTECTION: GRASS, RIPRAP, GABIONS, OTHER

DISTANCE BELOW POND TO PROPERTY LINE: 210 FT
PUBLIC ROAD: 1210 FT

SOIL CONSERVATION DISTRICT (NAME):
DISTRICT MANAGER SIGNATURE:
DATE AS-BUILT ACCEPTED:
DISTRICT REPRESENTATIVE SIGNATURE:

* ALL DEVELOPMENT PROHIBITED WITHIN THIS REACH BY EASEMENT

DESIGN SUMMARY POND NO. 1

WATER SHED: 4.1 FT.
STORAGE HEIGHT: 0.56 ACRE FEET
DRAINAGE AREA: 5.5 ACRE
NORMAL SURFACE AREA: 0.2 ACRE
SPILLWAY CAPACITY: 34.3 CFS (100 YEAR)
STORAGE HEIGHT PRODUCT: 2.3 ACRE FEET
STRUCTURE CLASSIFICATION: "A" (BECAUSE STORAGE HEIGHT PRODUCT IS LESS THAN 3000)

ENGINEER'S CERTIFICATE and DEVELOPER'S CERTIFICATE sections with signatures and dates.

THE SUBJECT PROPERTY IS ZONED M-2 PER THE 10-18-93 COMPREHENSIVE ZONING PLAN

Approval section with Department of Planning and Zoning signatures and zoning details table.

STORMWATER MANAGEMENT PLAN DETAILS - I section with project information and revision table.

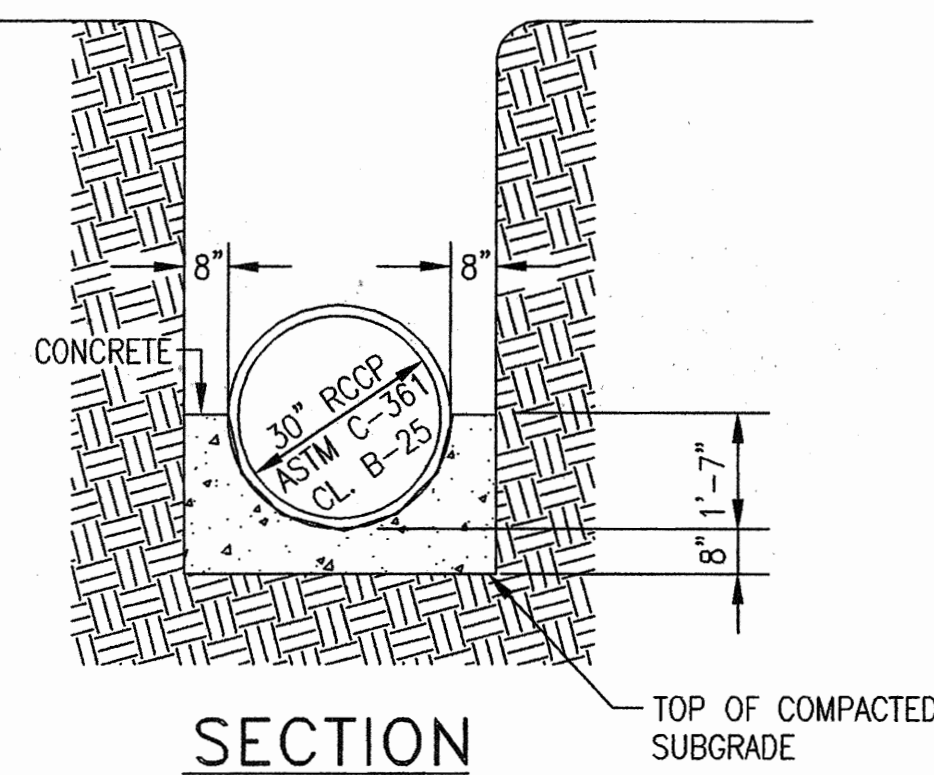
Architects Engineers and Construction Consultants logo and address.

Professional Engineer seal for Daniel Consultants, Inc.

DCI CONSULTING ENGINEERING AND PLANNING logo and address.

REVISIONS table with columns: NO., DATE, DESCRIPTION.

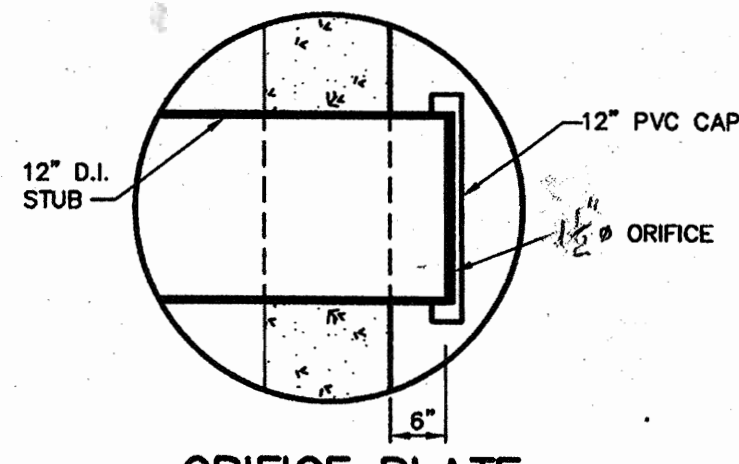
STORMWATER MANAGEMENT PLAN DETAILS - I section with project information and revision table.



SECTION

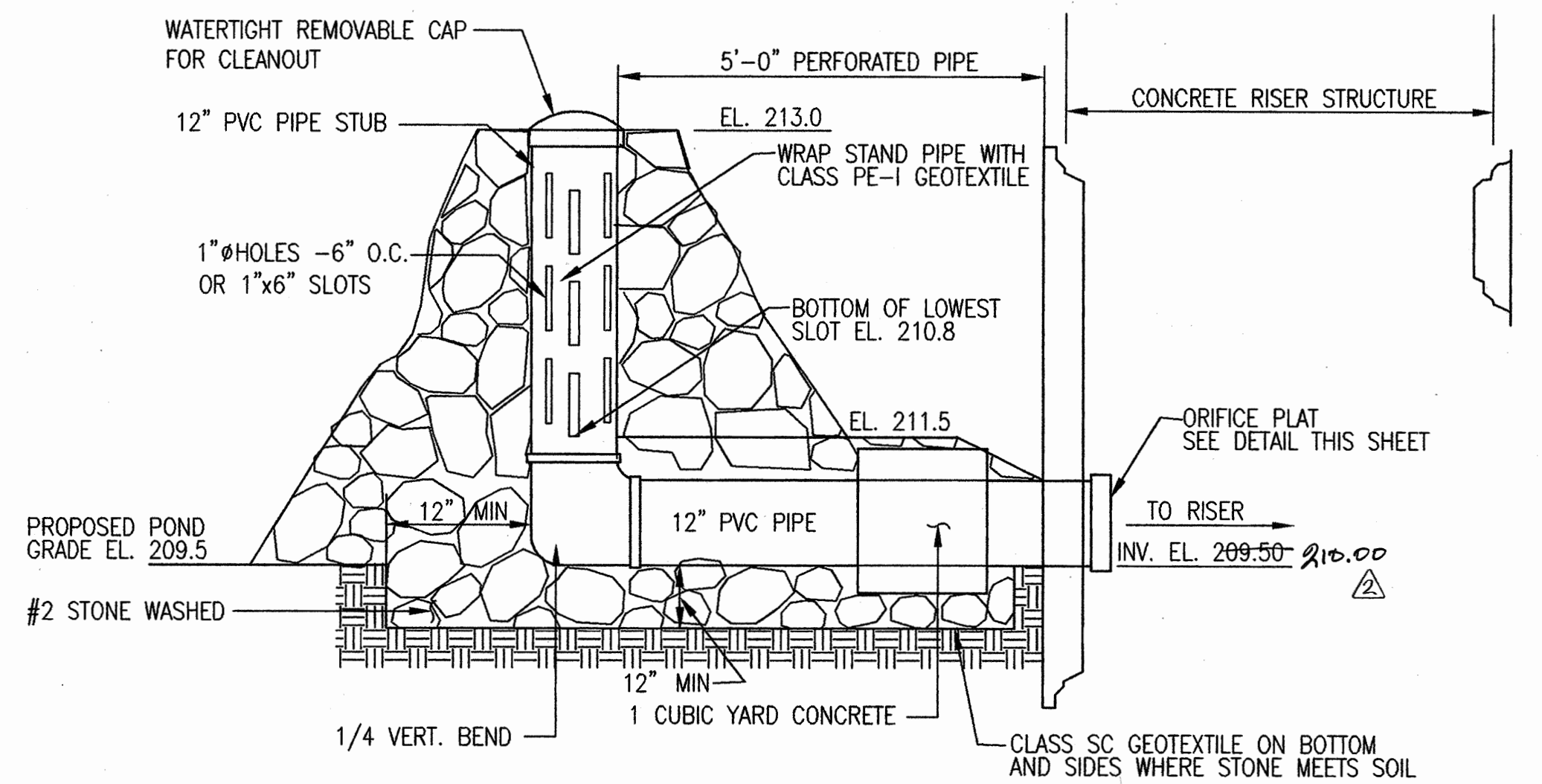
NOTE: POUR CONCRETE AGAINST UNDISTURBED EARTH. REMOVE SHEETING BEFORE POURING CONCRETE. ALL CONCRETE SHALL BE 3000 PSI.

SCS TR-46 A-2 CONCRETE CRADLE
NOT TO SCALE

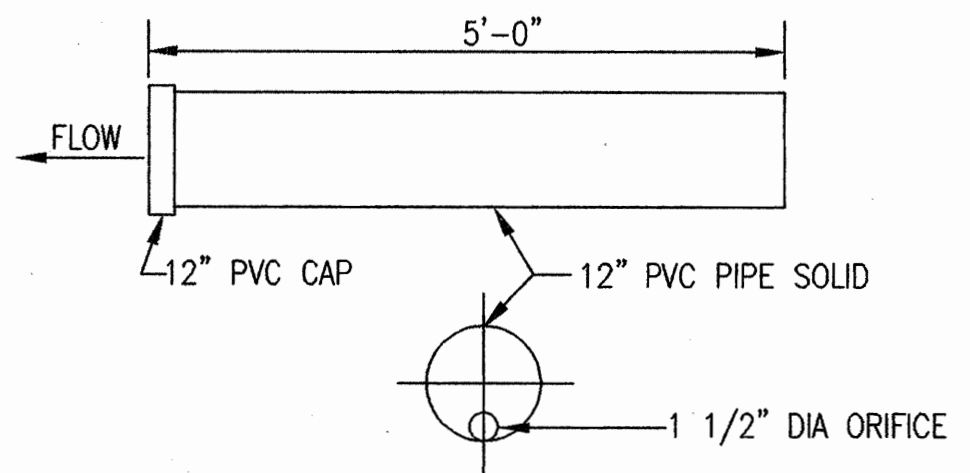


ORIFICE PLATE

PERFORATED PIPE SHALL BE BONDED TO ORIFICE SECTION AND HAVE REMOVABLE CAP PLACED ONTO OPPOSITE END FOR CLEAN OUT.
PERFORATED PIPE SHALL BE SECURELY COVERED ON ALL SIDES WITH 12" MINIMUM #2 STONE. SEE DETAIL 2 THIS SHEET.
CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION ARE MINIMIZED.
SET PERFORATED PIPE AT INVERTS SPECIFIED ON STORM WATER MANAGEMENT PLANS PRINCIPAL SPILLWAY PROFILE.

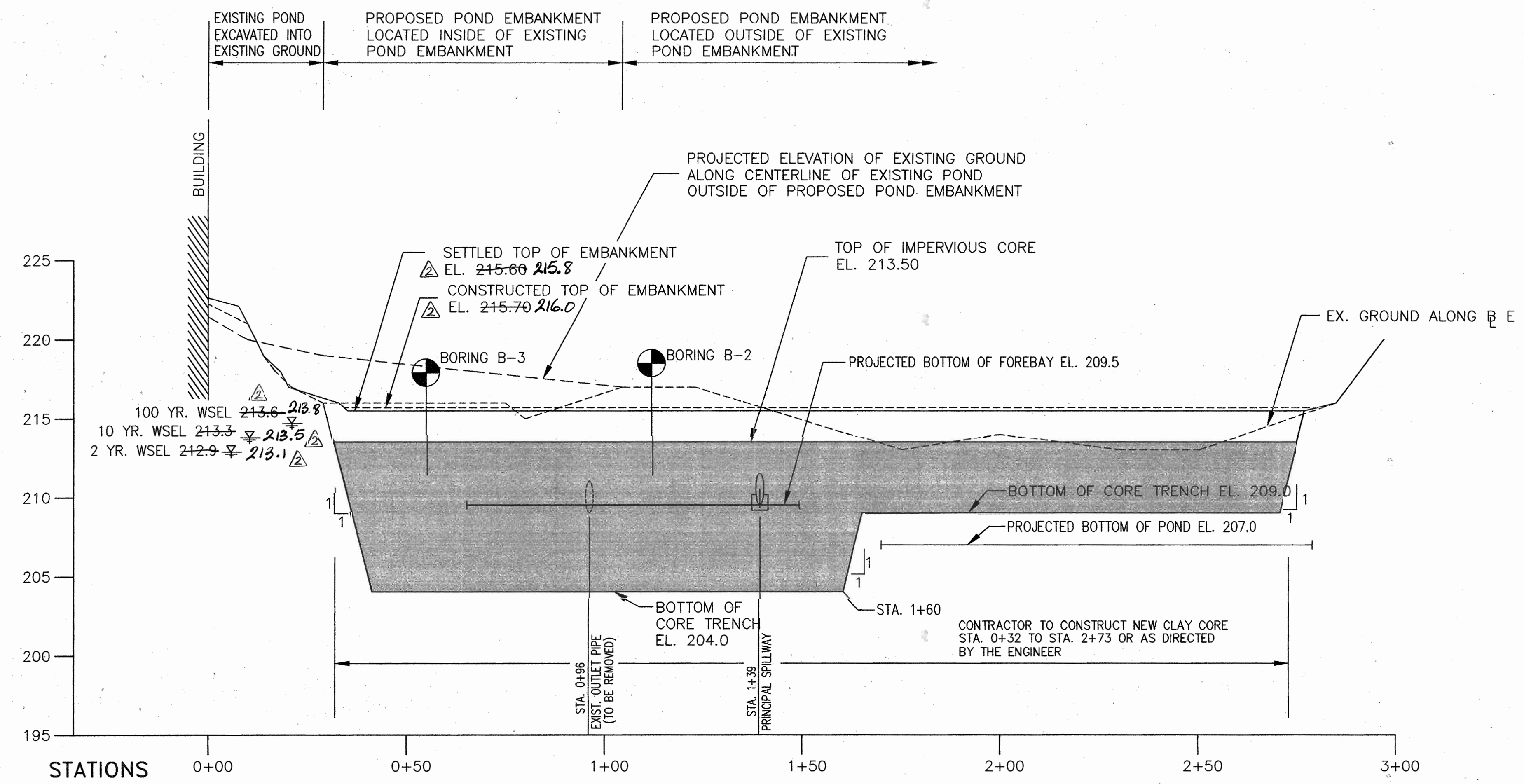


INTERNALLY CONTROLLED ORIFICE
NOT TO SCALE



ORIFICE SECTION
NOT TO SCALE

PROFILE ELEVATIONS



EMBANKMENT PROFILE

SCALE: 1" = 20' HORIZ.
1" = 5' VERT.

DEVELOPER'S/LANDOWNER'S CERTIFICATION
I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a Registered Professional Engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 day of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.

Signature: *Michael A. Giovanniello* Date: 2/25/03
Print Name: Michael A. Giovanniello MD. License No.

"AS-BUILT" CERTIFICATION
I hereby certify that the facility shown on this plan was constructed as shown on the "As-Built" plans and meets the approved plans and specifications. I also certify that construction was inspected in accordance with the requirements of Howard County.

Signature: _____ Date: _____
Print Name: _____ MD. License No. _____

ENGINEER'S CERTIFICATE
I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with requirements of the Howard Soil Conservation District.

Signature of Engineer (Print name below signature): *Richard S. Sobot* Date: 2/25/03

DEVELOPER'S CERTIFICATE
I/We Certify that all development and construction will be done according to this plan and that any responsible personnel involved in the construction project will have a certificate of Attendance at the Department of the Environment Approved Training Program for the Control of sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by Howard Soil Conservation District.

Signature of Developer (Print name below signature): *Michael A. Giovanniello* Date: 2/25/03

Reviewed for HOWARD SCD and meet Technical Requirements.
U.S.D.A. - Natural Resources Conservation Service
Signature: *John Ryan* Date: 3/6/03

The development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.
Signature: *John Ryan* Date: 3/6/03

THE SUBJECT PROPERTY IS ZONED M-2 PER THE 10-18-93 COMPREHENSIVE ZONING PLAN

Approved: Department of Planning and Zoning
Director: *Mark J. Lopez* Date: 3/10/03
Chief, Division of Land Development: *Andy Hamlett* Date: 3/10/03
Chief, Development Engineering Division: *John Ryan* Date: 3/5/03

SUBDIVISION NAME HOWARD COUNTY DETENTION CENTER		SECTION/AREA N/A	PARCEL NO. 660
LIBER/FOLIO 2116/282	BLOCK NO 1009/368	ZONING M-2	TAX MAP GRID NO. 9
15840, 15841	9, 10 AND 15	43	HOWARD CO. ELEC. DIST. NO-1
WATER CODE B01		SEWER CODE 2221000	

PROPOSED IMPROVEMENTS
BUILDING ADDITION. SEE SITE ANALYSIS CHART FOR APPLICABLE DPZ FILE REFERENCE DPZ FILE REF. FOR CURRENT PROJECT SDP-02-20

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cati Architects Engineers and Construction Consultants
8950 Route 108 Suite 218
Columbia Maryland 21045 (410)995-4067 Fax(410)992-1837

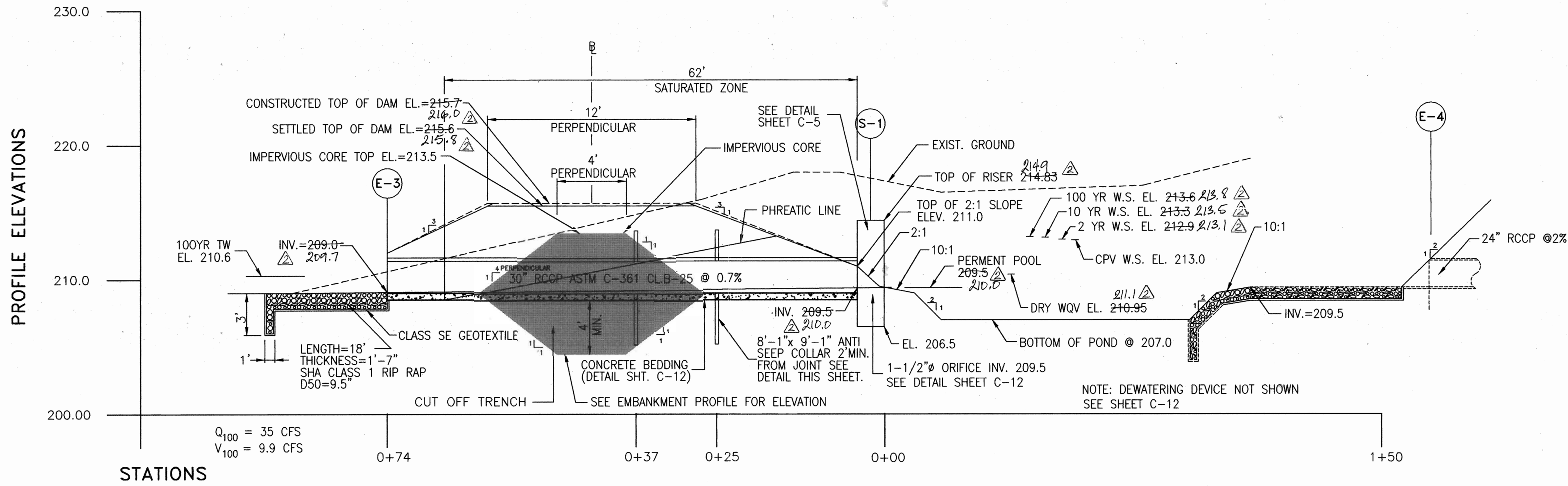


DCI CONSULTING ENGINEERING AND PLANNING
8950 Rt. 108 E., Suite 229 Columbia, MD. 21045
Phone: 410-995-0090 Fax: 410-992-7038

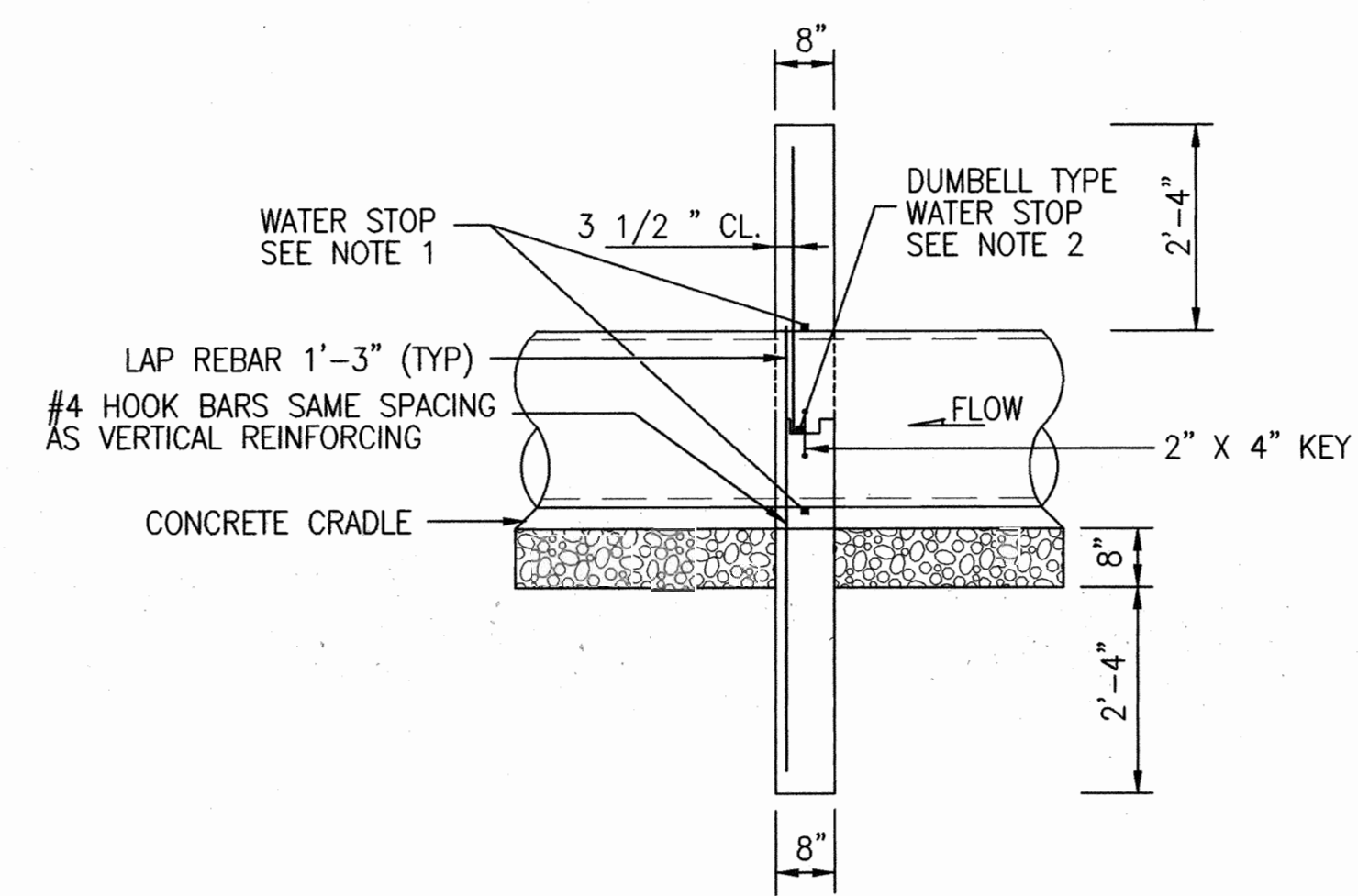
REVISIONS		
NO.	DATE	DESCRIPTION
2	9/15/05	REDLINE REVISION

STORMWATER MANAGEMENT PLAN DETAILS - I
HOWARD COUNTY CENTRAL BOOKING & DISTRICT COURT COMMISSIONERS FACILITY
HOWARD COUNTY, MARYLAND
DATE: FEBRUARY 21, 2003

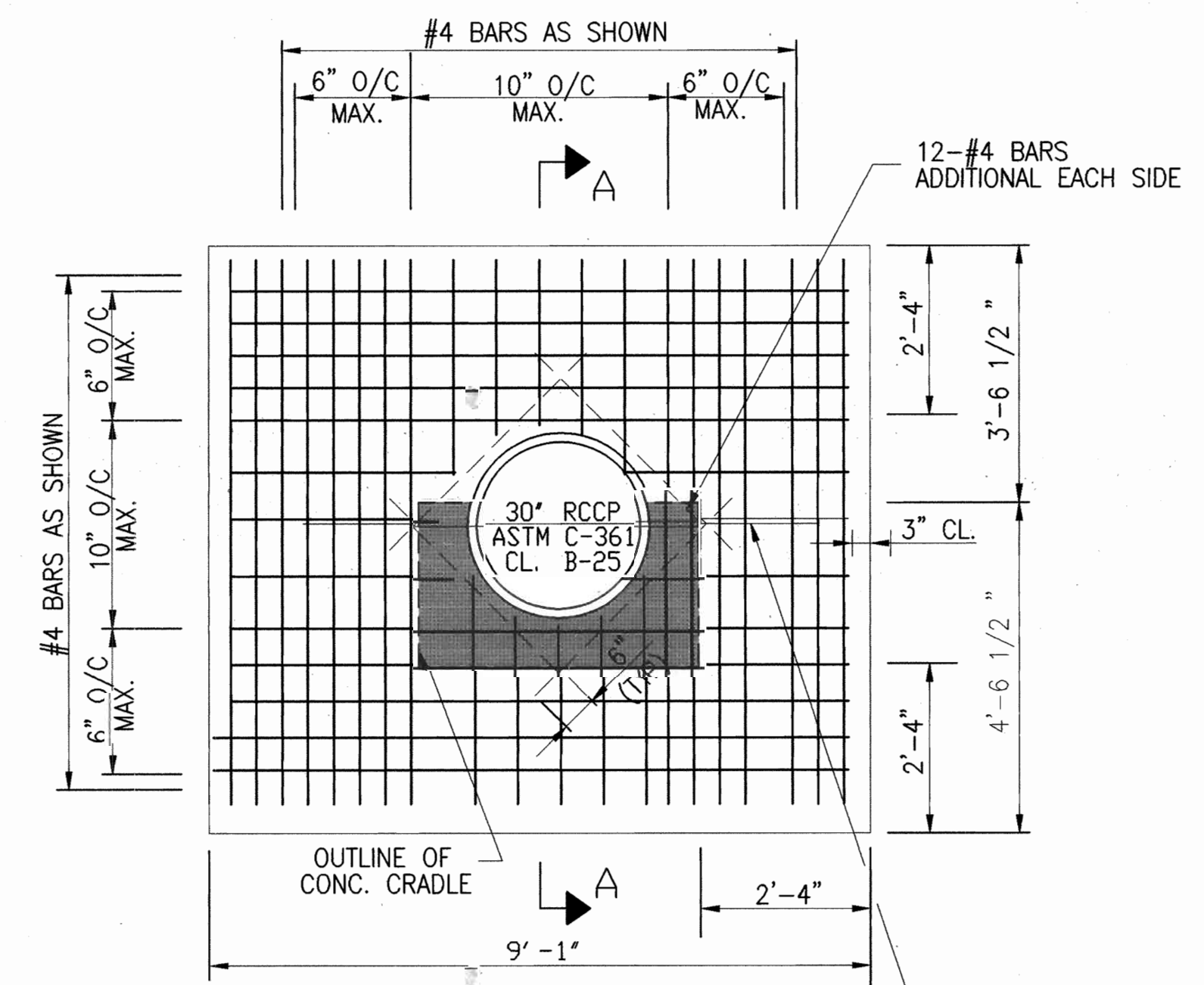
CAPITAL PROJECT NO.
 P - 4916
C-12
SET SHEET 12 OF 25



PRINCIPAL SPILLWAY
SCALE: 1" = 10' HORIZ.
1" = 5' VERT.



SECTION A-A
SCALE: 1/2" = 1'-0"



ELEVATION
SCALE: 1/2" = 1'-0"

- NOTES:**
1. WATER STOP AROUND PIPE SHALL BE VOLCLAY TYPE RX AS MANUFACTURED BY AMERICAN COLLOID CO. OR APPROVED EQUIVALENT.
 2. DUMB BELL TYPE WATER STOP IN CONSTRUCTION JOINT SHALL BE 6" VINYL; MODEL D6-316 BY VINYLEX OR APPROVED EQUIVALENT.
 3. ALL CONCRETE SHALL BE MSHA MIX NO. 3 (3500 PSI).
 4. ALL SURFACES BETWEEN THE PIPE AND ANTI-SEEP COLLAR, EXCEPT BETWEEN THE PIPE AND THE CRADLE SHALL BE SEALED WITH AN ASPHALT JOINT FILLER MATERIAL TO PREVENT SEEPAGE.

ENGINEER'S CERTIFICATE
I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with requirements of the Howard Soil Conservation District.

Michael A. Giovanniello 2/25/03
Signature of Engineer (Print name below signature) Date

DEVELOPER'S CERTIFICATE
I/We Certify that all development and construction will be done according to this plan and that any responsible personnel involved in the construction project will have a certificate of Attendance at the Department of the Environment Approved Training Program for the Control of sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by Howard Soil Conservation District.

Michael A. Giovanniello 2/25/03
Signature of Developer (Print name below signature) Date

Reviewed for HOWARD SCD and meet Technical Requirements. 2/16/03
U.S.D.A. - Howard Soil Conservation District Date

The development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT. 2/14/03
Howard SCD Date

THE SUBJECT PROPERTY IS ZONED M-2 PER THE 10-18-93 COMPREHENSIVE ZONING PLAN

Approved: Department of Planning and Zoning
James D. Cagle 2/16/03
Director Date

Michael A. Giovanniello 2/16/03
Chief, Division of Land Development Date

Michael A. Giovanniello 2/16/03
Chief, Development Engineering Division Date

SUBDIVISION NAME HOWARD COUNTY DETENTION CENTER	SECTION/AREA N/A	PARCEL NO. 660
LIBER/FOLIO 2116/282 1005/568	BLOCK NO 9, 10 AND 15	ZONING M-2
TAX MAP 43	GRID NO. 9	HOWARD CO. CENSUS TR. ELEC. DIST. NO-1 6012.02
WATER CODE B01	SEWER CODE 2221000	

PROPOSED IMPROVEMENTS
BUILDING ADDITION. SEE SITE ANALYSIS CHART FOR APPLICABLE DPZ FILE REFERENCE DPZ FILE REF. FOR CURRENT PROJECT SDP-02-20

DEVELOPER'S/LANDOWNER'S CERTIFICATION
I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a Registered Professional Engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 day of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.

Michael A. Giovanniello 2/25/03
Signature Date
Michael A. Giovanniello MD. License No.

"AS-BUILT" CERTIFICATION
I hereby certify that the facility shown on this plan was constructed as shown on the "As-Built" plans and meets the approved plans and specifications. I also certify that construction was inspected in accordance with the requirements of Howard County.

Signature Date
Print Name MD. License No.

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ati Architects Engineers and Construction Consultants
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Columbia Maryland 21045 (410)995-4067 Fax(410)992-1837



DCI CONSULTING ENGINEERING AND PLANNING
8950 Rt. 108 E., Suite 229 Columbia, MD. 21045
Phone: 410-995-0090 Fax: 410-992-7038

DANIEL CONSULTANTS, INC.

REVISIONS

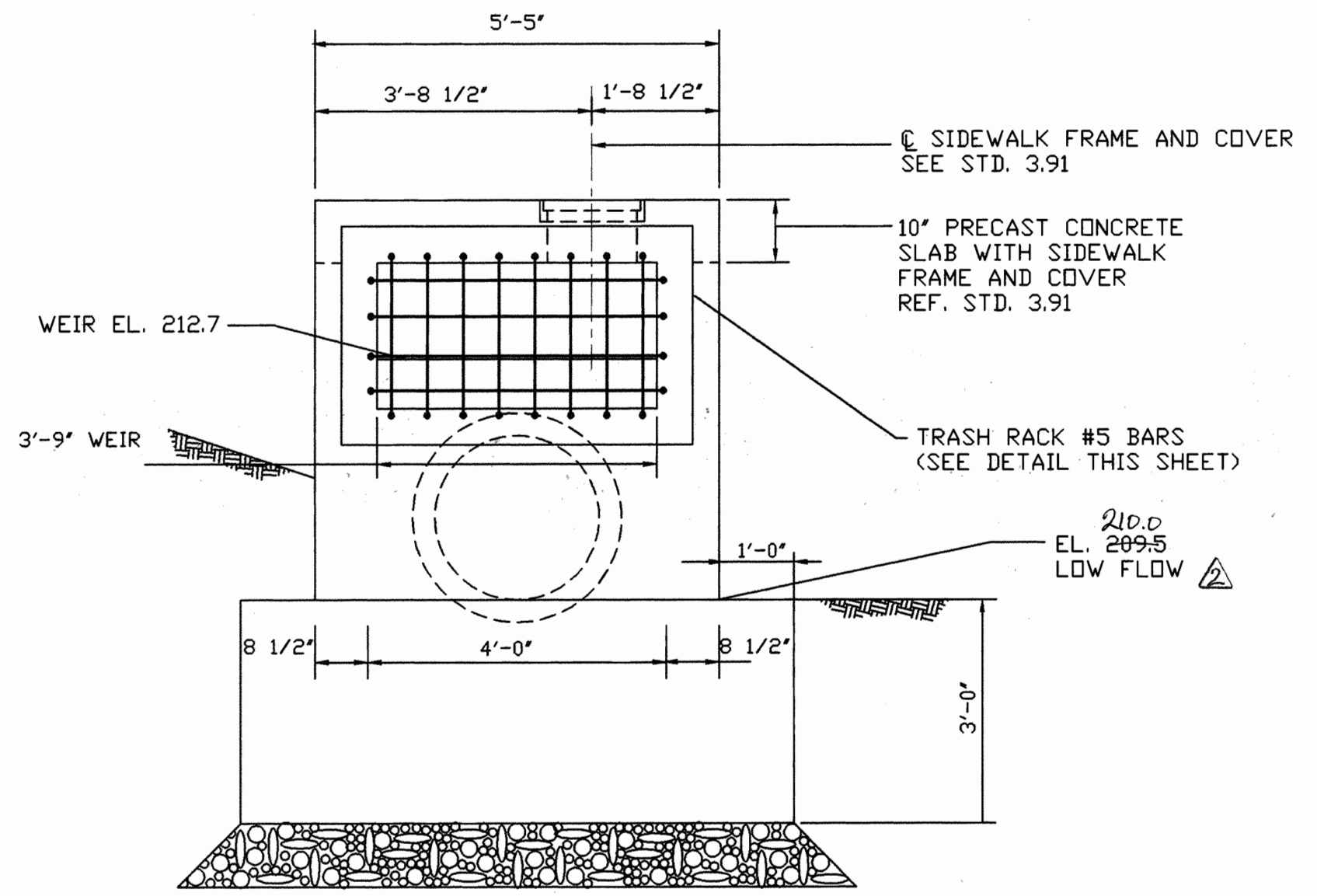
NO.	DATE	DESCRIPTION
2	2/15/03	REDLINE REVISION

STORMWATER MANAGEMENT DETAILS-III

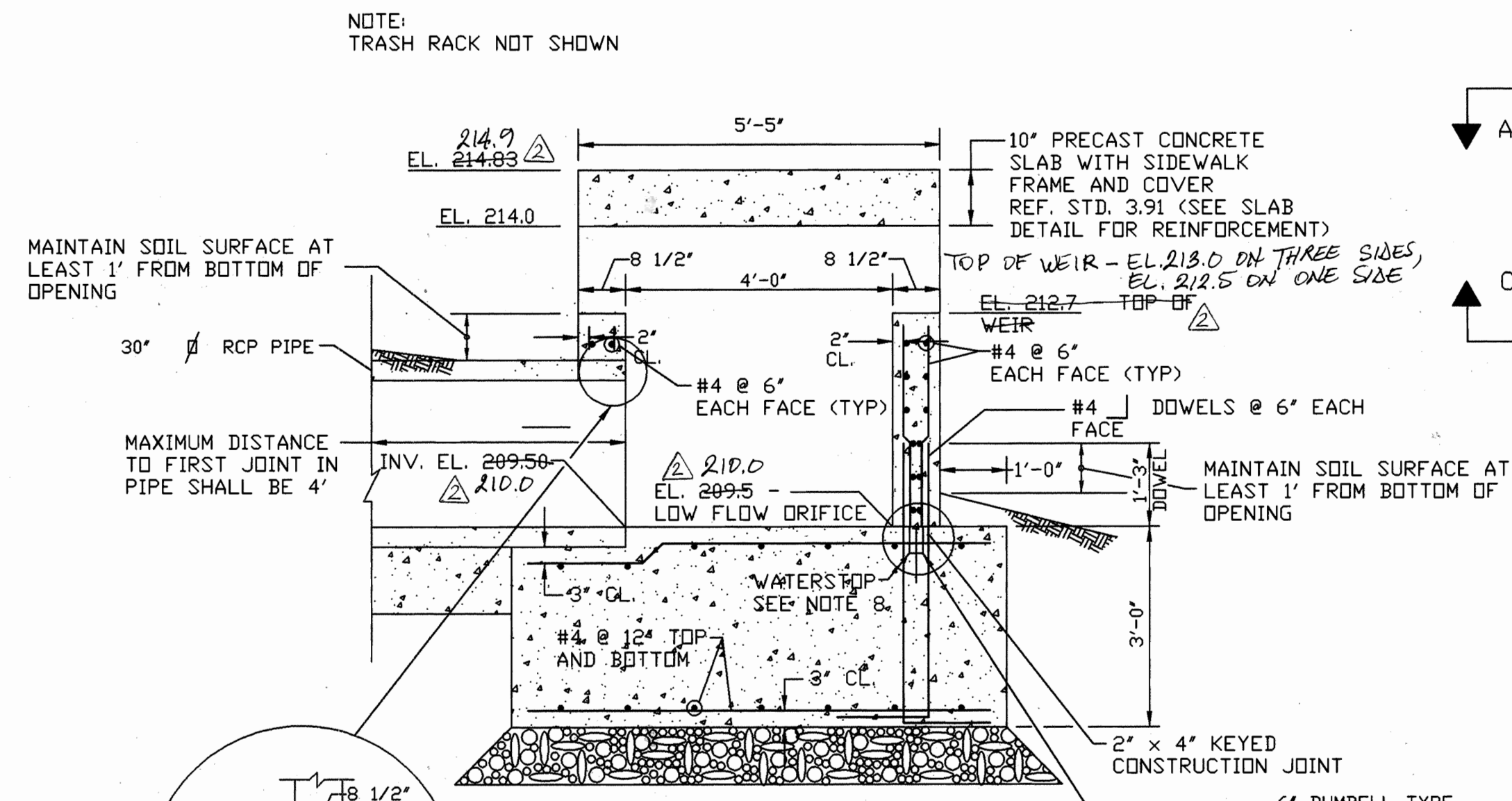
HOWARD COUNTY CENTRAL BOOKING & DISTRICT COURT COMMISSIONERS FACILITY
HOWARD COUNTY, MARYLAND

DATE: FEBRUARY 21, 2003

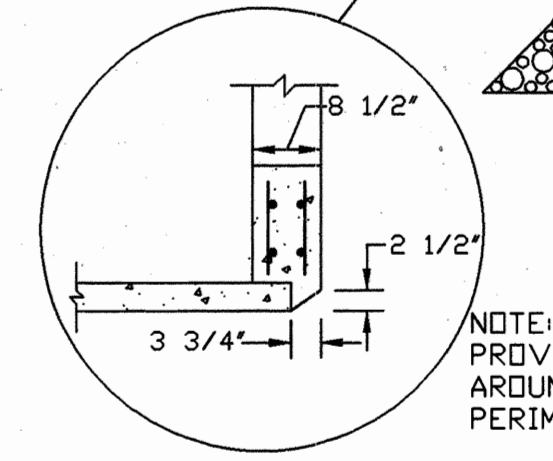
CAPITAL PROJECT NO. P-4916
C-13
SET SHEET 13 OF 25
SDP-02-20



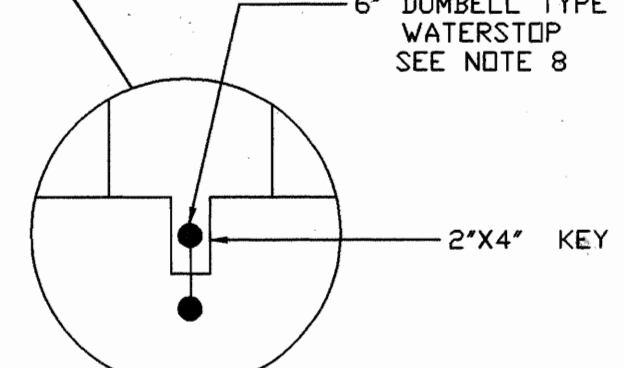
SECTION A-A
SCALE: 1/2" = 1'-0"



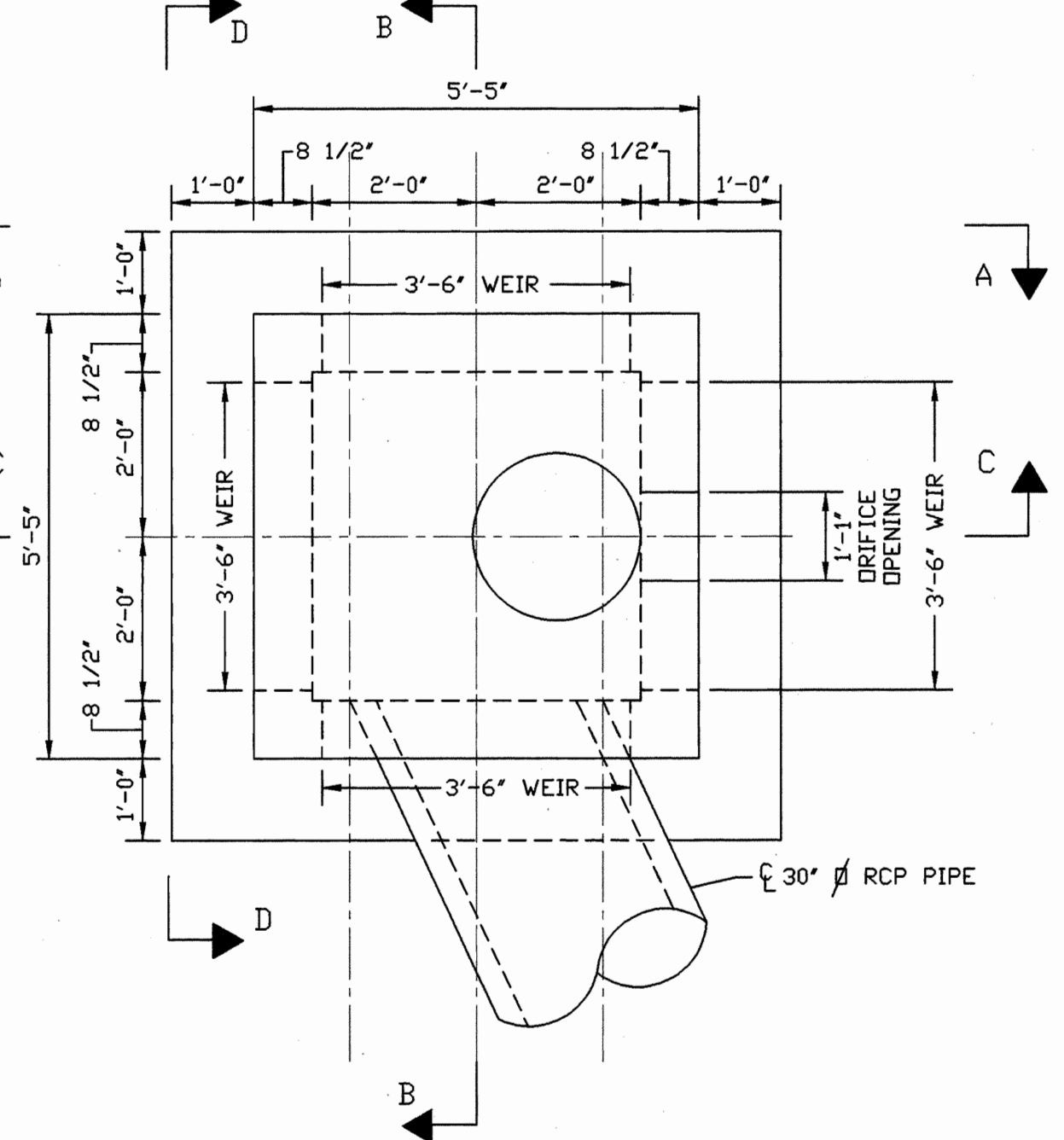
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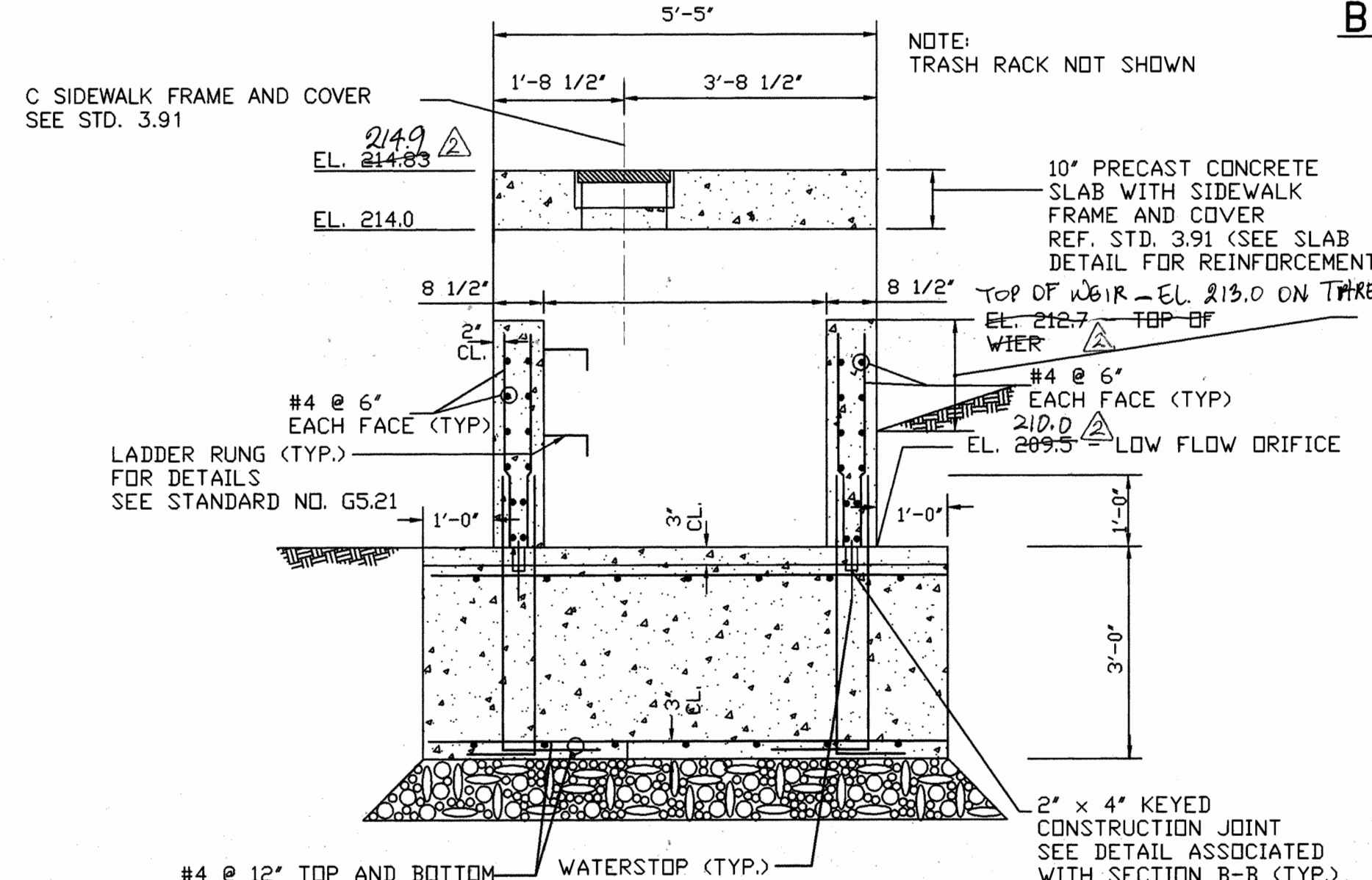
BEVEL RING DETAIL



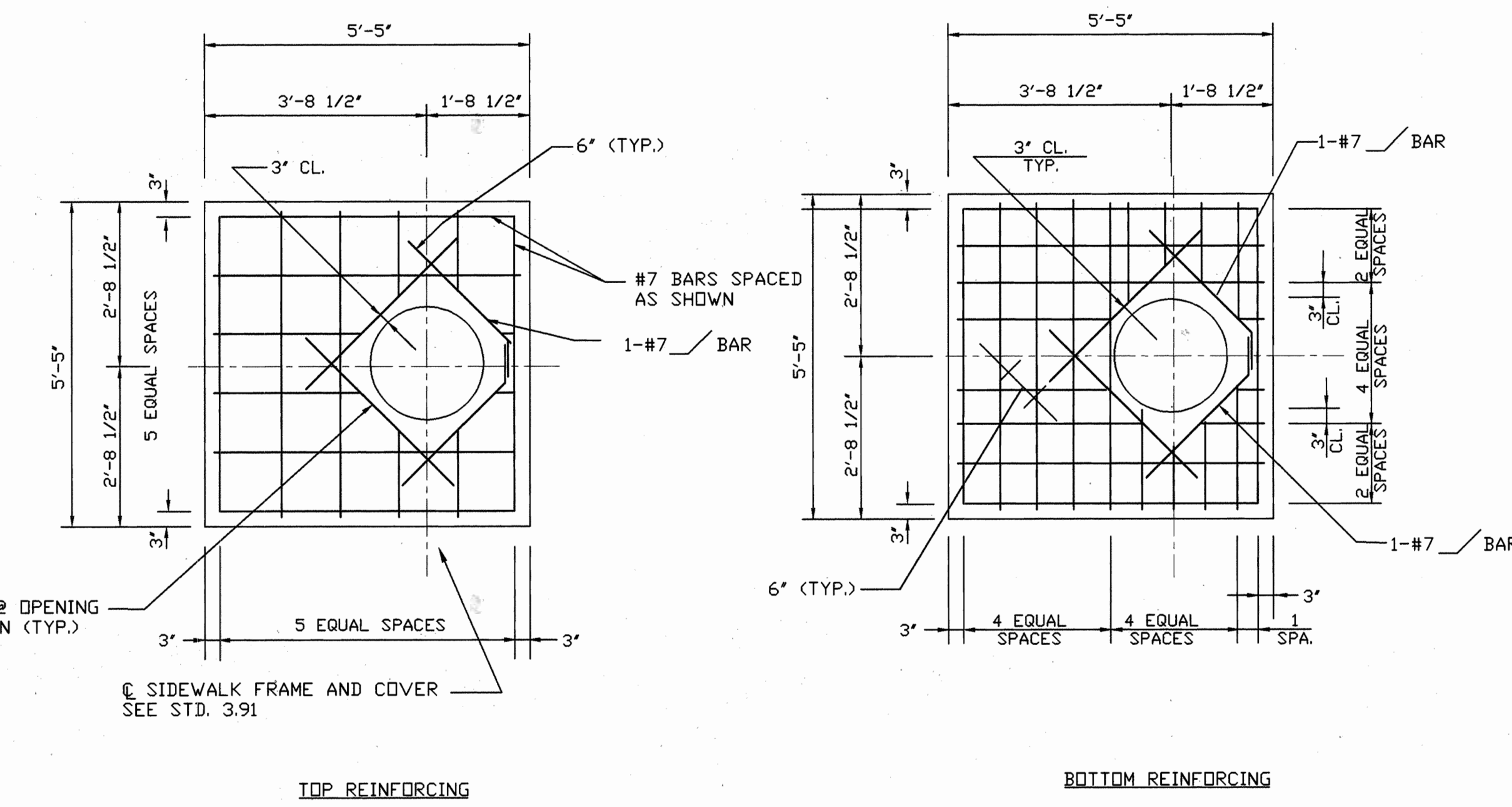
JOINT DETAIL



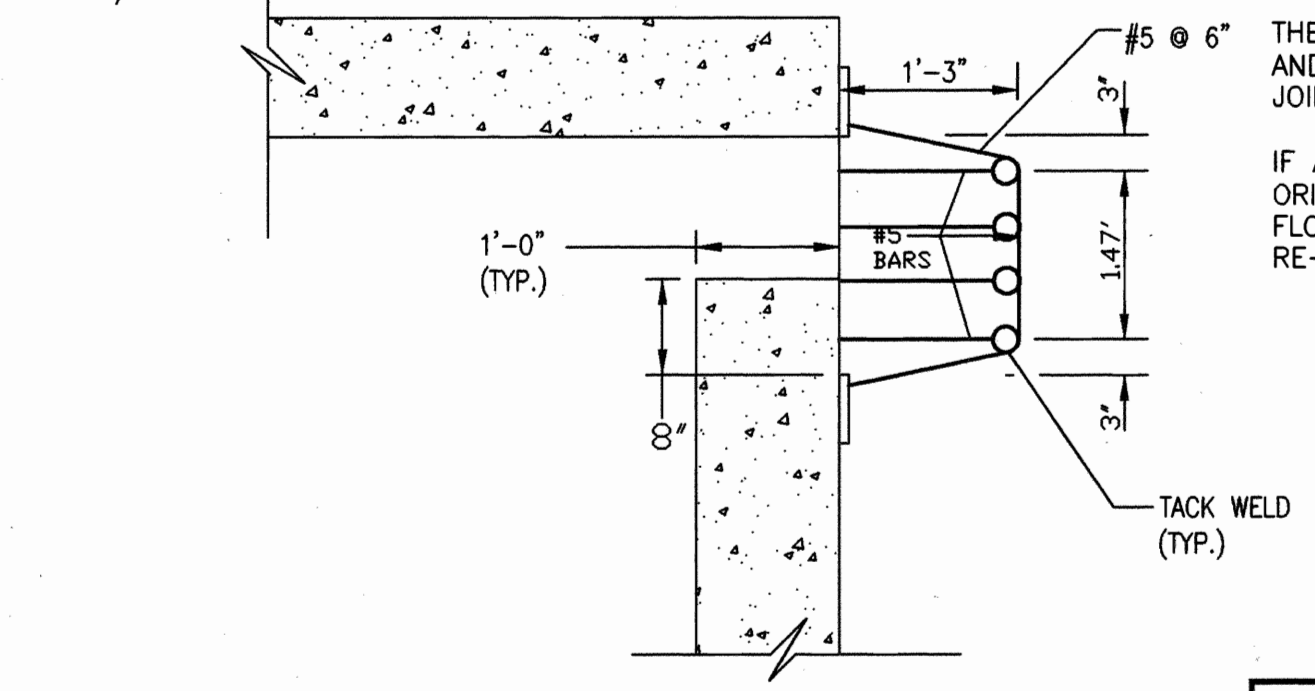
PLAN VIEW
SCALE: 1/2" = 1'-0"



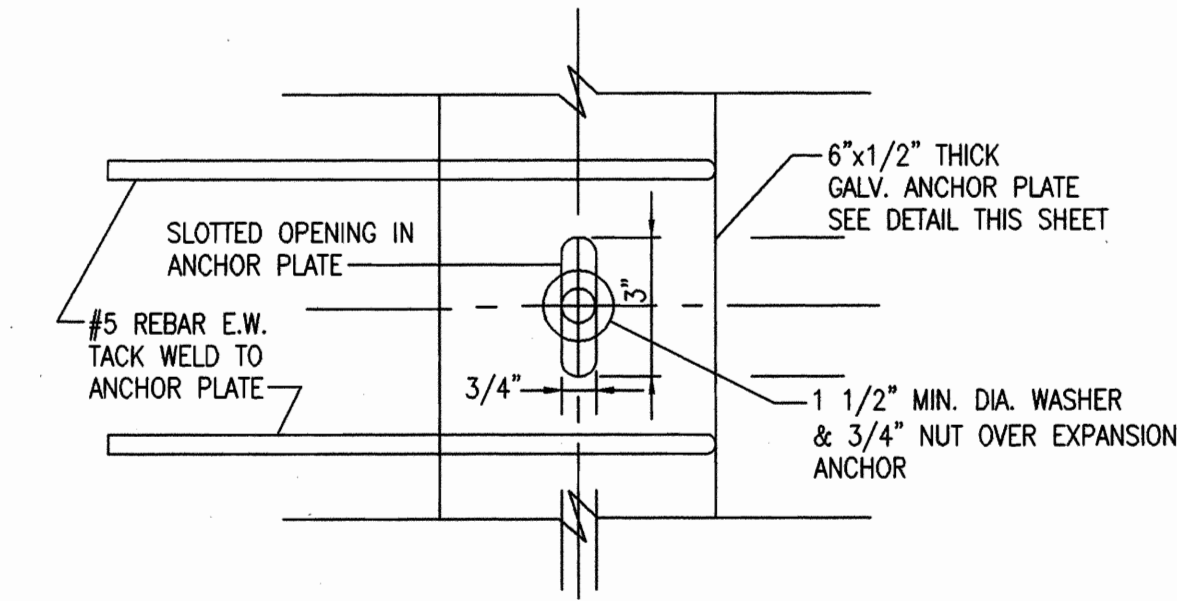
SECTION C-C
SCALE: 1/2" = 1'-0"



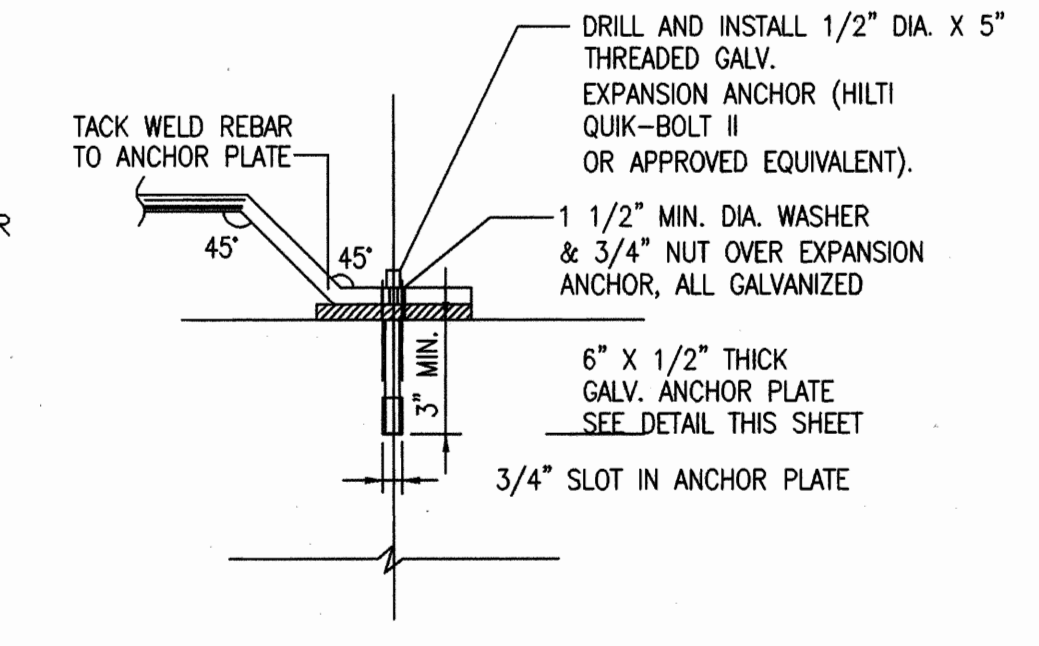
PRECAST CONCRETE SLAB
SCALE: 1/2" = 1'-0"



WEIR TRASH RACK SIDE ELEVATION VIEW
SCALE: 3/4" = 1'-0"



ANCHOR PLATE DETAIL



TRASH RACK CONNECTION

OUTLET STRUCTURE NOTES

1. THE STRUCTURE DETAILED IS CAST IN PLACE CONSTRUCTION IF THE CONTRACTOR ELECTS TO USE A PRECAST STRUCTURE. THE CONTRACTOR MUST MEET THE REQUIREMENTS OF THE "PRECAST CONCRETE RISER NOTE", BELOW
2. CONCRETE TO BE MIX NO. 3 (4500 PSI)
3. ALL EXPOSED CORNERS OF CONCRETE STRUCTURE SHALL BE CHAMFERED WITH 3/4" X 3/4" MILLED CHAMFER STRIPS.
4. REINFORCING: REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60
5. MINIMUM COVER FOR REBARS SHALL BE 2" IN WALLS AND 3" IN BOTTOM UNLESS OTHERWISE NOTED.
6. PIPE OPENINGS TO BE PROVIDED AS REQUIRED, FOR SIZE, LOCATION AND INVERT ELEVATIONS SPECIFIED
7. LADDER RUNGS SHALL BE IN ACCORDANCE WITH STANDARD MD.-383.91, AND MD.-383.92 OR AS DIRECTED BY THE ENGINEER. PROVIDE LADDER RUNGS ON BOTH THE INSIDE AND OUTSIDE OF THE STRUCTURE.
8. PROVIDE WATERTIGHT SEAL AROUND PIPES AT ALL OPENINGS WATERSTOP SHALL BE VOLCLAY WATERSTOP - RX AS MADE BY AMERICAN COLLOID CO. OR APPROVED EQUIVALENT.
PROVIDE WATERTIGHT SEAL AT ALL JOINTS. WATERSTOP SHALL BE DUMB BELL TYPE WATERSTOP 6" VINYLE, MODEL D6-316 MADE BY VINYLEX OR APPROVED EQUIVALENT.
9. TRASH RACK SHALL BE GALVANIZED AFTER FABRICATION AND PAINTED WITH TWO COATS OF BATTLESHIP GREY PAINT.

PRECAST CONCRETE RISER NOTE

SHOP DRAWINGS FOR PRE-CAST CONCRETE RISERS WITH SUPPORTING STRUCTURE COMPUTATIONS (SIGNED AND SEALED BY A MARYLAND REGISTERED PROFESSIONAL ENGINEER) MEETING ASTM REQUIREMENTS FOR PRE-CAST STRUCTURES MUST BE SUBMITTED TO THE ENGINEER, AND THE APPROVING AGENCY FOR APPROVAL PRIOR TO FABRICATION.

THE SHOP DRAWINGS SHALL INCLUDE METHODS, MATERIALS, AND DETAILING OF WATER-TIGHT SEALS AT ALL CONSTRUCTION JOINTS AND AROUND ALL PIPES.

IF ANY STRUCTURE DIMENSIONS VARY FROM WHAT WAS ORIGINALLY REVIEWED/APPROVED, THEN THE HYDRAULICS, FLOTATION AND STRUCTURAL INTEGRITY SHALL BE RE-ANALYZED AND SUBMITTED FOR APPROVAL.

ENGINEER'S CERTIFICATE
I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with requirements of the Howard Soil Conservation District.
Michael A. Giovannella 2/25/03
Signature of Engineer (Print name below signature) Date

DEVELOPER'S CERTIFICATE
I/We certify that all development and construction will be done according to this plan and that any responsible personnel involved in the construction project will have a certificate of Attendance at the Department of the Environment Approved Training Program for the Control of sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by Howard Soil Conservation District.
Michael A. Giovannella 2/25/03
Signature of Developer (Print name below signature) Date

Reviewed for HOWARD SCD and meet Technical Requirements.
Michael A. Giovannella 3/4/03
Signature of Developer (Print name below signature) Date

U.S.D.A. - Natural Resources Conservation Service
The development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT
Michael A. Giovannella 3/6/03
Signature of Developer (Print name below signature) Date

THE SUBJECT PROPERTY IS ZONED M-2 PER THE 10-18-93 COMPREHENSIVE ZONING PLAN

Approved: Department of Planning and Zoning
David M. Leary 2/18/03
Director Date

Cynthia Hamilton 3/17/03
Chief, Division of Planning and Development Date

John O'Connell 2/15/03
Chief, Development Engineering Division Date

SUBDIVISION NAME HOWARD COUNTY DETENTION CENTER		SECTION/AREA N/A	PARCEL NO. 660	
LIBER/FOLIO 2166/282 1009/368 1586-12841	BLOCK NO 9,10 AND 15	ZONING M-2	TAX MAP [GRID NO] 43 9	HOWARD CO. ELEC. DIST. NO-1
WATER CODE B01		SEWER CODE 2221000		

PROPOSED IMPROVEMENTS
BUILDING ADDITION, SEE SITE ANALYSIS CHART FOR APPLICABLE DPZ FILE REFERENCE DPZ FILE REF. FOR CURRENT PROJECT SDP-02-20

DEVELOPER'S/ANCHORER'S CERTIFICATION
I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance of a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a Registered Professional Engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.
Michael A. Giovannella 2/25/03
Signature Date
Michael A. Giovannella MD License No.

"AS-BUILT" CERTIFICATION
I hereby certify that the facility shown on this plan was constructed as shown on the "As-Built" plans and meets the approved plans and specifications. I also certify that construction was inspected in accordance with the requirements of Howard County.
Signature Date
Print Name MD License No.

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atit Architects Engineers and Construction Consultants
8950 Route 108 Suite 218
Columbia Maryland 21045 (410)995-4067 Fax (410)992-1837



DCI CONSULTING ENGINEERING AND PLANNING
8950 Rt. 108 E., Suite 229 Columbia, MD. 21045
Phone: 410-995-0090 Fax: 410-992-7038
DANIEL CONSULTANTS, INC.

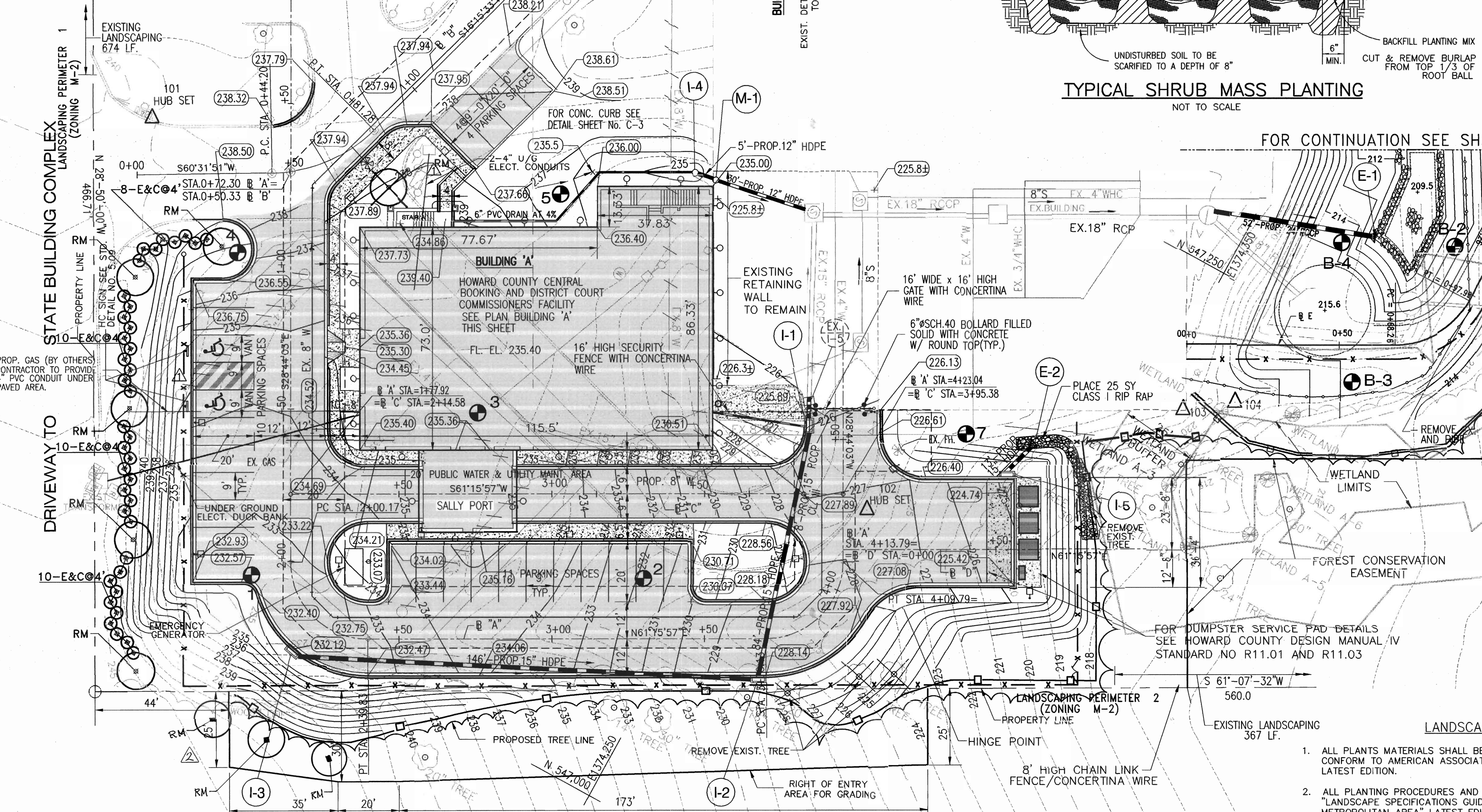
REVISIONS

NO.	DATE	DESCRIPTION
1	2/15/03	REDLINE REVISION

STORMWATER MANAGEMENT DETAILS V
HOWARD COUNTY CENTRAL BOOKING & DISTRICT COURT COMMISSIONERS FACILITY
HOWARD COUNTY, MARYLAND
DATE: FEBRUARY 21, 2003

CAPITAL PROJECT NO.
 P - 4916
C-15
SET SHEET 15 of 25

- LEGEND:**
- EX. EDGE OF BRUSH/TREES
 - EX. FENCE
 - PROPOSED CURB AND GUTTER(SEE DETAIL SHEET C-3)
 - PROPOSED P-3 PAVEMENT(SEE H.C. STD. R-2.01)
 - PROPOSED SIDEWALK(SEE H.C. STD. R-3.05)
 - 223.92 BOTTOM OF CURB AND SPOT ELEVATION
 - 1 INDICATES SOIL BORING TAKEN FOR BOOKING FACILITY SHOWN ON SDP 91-107 DATED 5-6-91
 - NEW FENCE
 - TREE
 - EXTERIOR POLE MOUNTED LIGHT FIXTURE
 - EXTERIOR WALL PACK FIXTURE
 - BLAZE ORANGE PLASTIC MESH TREE PROTECTION FENCE



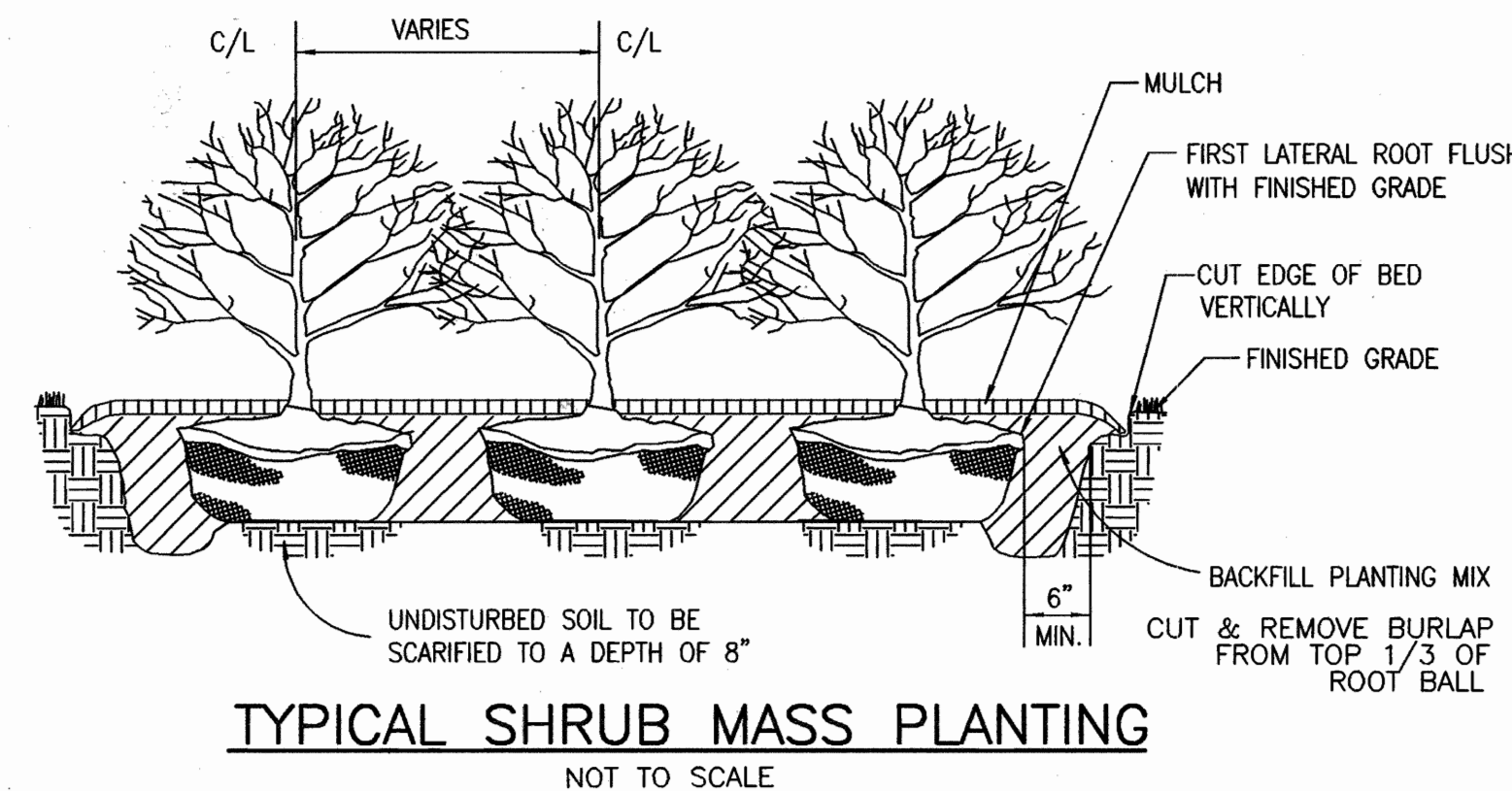
DEVELOPER'S/BUILDER'S CERTIFICATE

I/WE CERTIFY THAT THE LANDSCAPE PLANTING SHOWN ON THIS PLAN WILL BE DONE IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION, A CERTIFICATE OF LANDSCAPE INSTALLATION ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

Michael A. Giovanniello
NAME
3/12/03
DATE

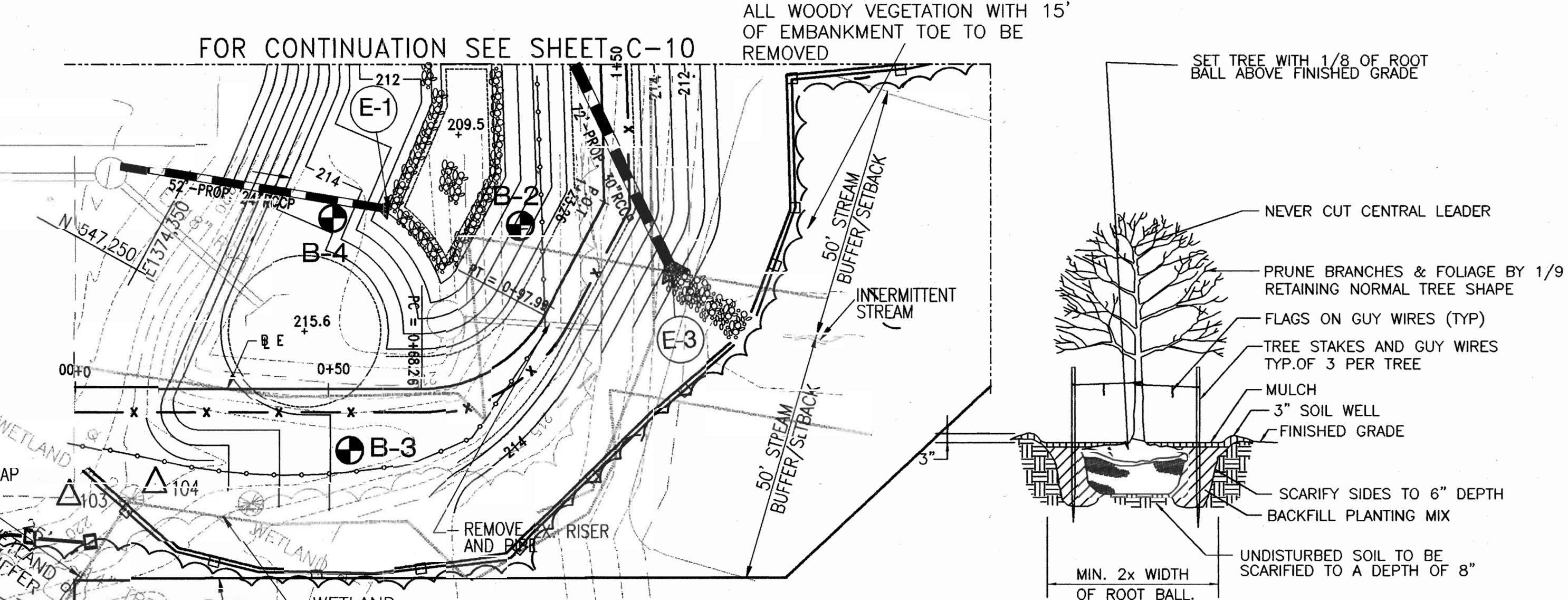
LANDSCAPING PLANTING LIST

KEY	QUANTITY	COMMON NAME/BOTANICAL NAME	MIN. SIZE	ROOT	REMARKS
RM	6 EA.	RED SUNSET MAPLE / ACER RUBRUM "RED SUNSET"	2.5" CAL.	B&B	20' O.C.
E&C	38 EA.	BURNING BUSH/EUONYMUS ALATUS (COMPACTUS)	30"-36"	B&B	4' O.C.



SCHEDULE "A" - PERIMETER LANDSCAPE EDGE

CATEGORY LANDSCAPE TYPE	ADJACENT TO ROADWAYS	ADJACENT TO PROPERTY
	PERIMETER 1 TYPE "E"	PERIMETER 2 TYPE "A" (PROPERTY LINE)
LINEAR FEET OF ROADWAY FRONTAGE / PERIMETER	814	697
CREDIT FOR EXIST. VEGETATION (YES, NO, LINEAR FOOT) (DESCRIBED BELOW IF NEEDED)	YES (674 LF) (NET 140 LF)	YES (697 LF)
CREDIT FOR WALL, FENCE OR BERM	NO	NO
NUMBER OF PLANTS REQUIRED		
SHADE TREES	4	0
EVERGREEN TREES	0	0
SHRUBS	35	0
NUMBER OF PLANTS PROVIDED		
SHADE TREES	4	0
EVERGREEN TREES	0	0
SHRUBS	38	0



- NOTES:**
- CUT AND REMOVE BURLAP FROM TOP 1/3 OF ROOT BALL.
 - REMOVE ALL NON-BIODEGRADABLE CONTAINERS & SCARIFY ROOT BALL.

SCHEDULE "B" - PARKING LOT INTERNAL LANDSCAPING

NUMBER OF PARKING SPACES	25
NUMBER OF TREES REQUIRED(LANDSCAPE ISLANDS)	2
NUMBER OF TREES PROVIDED(LANDSCAPE ISLANDS)	2
SHADE TREES	2

LANDSCAPE NOTES

- ALL PLANTS MATERIALS SHALL BE NURSERY GROWN AND SHALL CONFORM TO AMERICAN ASSOCIATION OF NURSERYMAN, INC. STANDARD, LATEST EDITION.
- ALL PLANTING PROCEDURES AND SPECIFICATIONS SHALL CONFORM TO "LANDSCAPE SPECIFICATIONS GUIDELINES FOR BALTIMORE WASHINGTON METROPOLITAN AREA" LATEST EDITION.
- THE CONTRACTOR SHALL CONTACT "MISS UTILITY" FOR UNDERGROUND UTILITY LOCATIONS AT LEAST 72 HOURS PRIOR TO THE COMPLETION DATE.
- ALL PLANTS SHALL BE GUARANTEED BY THE CONTRACTOR FOR ONE YEAR FOLLOWING THE INSTALLATION COMPLETION DATE.
- AT THE TIME OF INSTALLMENT, ALL SHRUBS AND OTHER PLANTING HEREWITH LISTED AND APPROVED FOR THIS SITE, SHALL BE OF THE PROPER HEIGHT REQUIREMENTS IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL. IN ADDITION, NO SUBSTITUTIONS OR RELOCATION OF REQUIRED PLANTINGS MAY BE MADE WITHOUT PRIOR REVIEW AND APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING. ANY DEVIATION FROM THIS APPROVED LANDSCAPE PLAN MAY RESULT IN DENIAL OR DELAY IN THE RELEASE OF LANDSCAPE SURETY UNTIL SUCH TIME AS ALL REQUIRED MATERIALS ARE PLANTED AND/OR REVISIONS ARE MADE TO APPLICABLE PLANS AND CERTIFICATES.

THE SUBJECT PROPERTY IS ZONED M-2 PER THE 10-18-93 COMPREHENSIVE ZONING PLAN

Approved: Department of Planning and Zoning
 Director: *Mark D. Layton* 3/12/03
 Chief, Division of Land Development: *Chris Hamilton* 3/14/03
 Chief, Development Engineering Division: *Chris Hamilton* 3/12/03

SUBDIVISION NAME		SECTION/AREA	N/A	PARCEL NO.
HOWARD COUNTY DETENTION CENTER				660
LIBER/FOLIO	BLOCK NO	ZONING	TAX MAP GRID NO	HOWARD CO. ELEC. DIST.
2116/282	9, 10 AND 15	M-2	43 9	NO-1
1099/368				6012.02
WATER CODE			SEWER CODE	
B01			2221000	

PROPOSED IMPROVEMENTS
 BUILDING ADDITION, SEE SITE ANALYSIS IS CHART FOR APPLICABLE DPZ FILE REFERENCE DPZ FILE REF. FOR CURRENT PROJECT SDP-02-20

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 8950 Route 108 Suite 218
 Columbia Maryland 21045 (410)995-4067 Fax(410)992-1837



DCI CONSULTING ENGINEERING AND PLANNING
 8950 Rt. 108 E., Suite 229 Columbia, MD. 21045
 Phone: 410-995-0090 Fax: 410-992-7038

REVISIONS

NO.	DATE	DESCRIPTION
3	3/12/03	ADDENDUM NO. 1
4	9/15/05	REDLINE REVISION

LANDSCAPING PLAN
 HOWARD COUNTY CENTRAL BOOKING & DISTRICT COURT COMMISSIONERS FACILITY
 HOWARD COUNTY, MARYLAND
 DATE: FEBRUARY 21, 2003

CAPITAL PROJECT NO. P-4916
C-16
 SET SHEET 16 OF 25
 SDP-02-20

PAVEMENT AND CURB & GUTTER ELEVATIONS FROM BASELINE "A"

Table with columns for stationing (16' Left to 12' Rt. Flow), elevations, and slopes. Includes hinge point information at the bottom.

CAPITAL PROJECT NO. P-4916 PAVEMENT ELEVATIONS, BASELINE "C"

Table with columns for stationing (9' Left to 9' Right) and elevations. Includes a note 'SALLY PORT FOR ELEVATION SEE ARCHITECTURAL DRAWING SHEET'.

PAVEMENT AND CURB & GUTTER ELEVATIONS FROM BASELINE "D"

Table with columns for stationing (Hinge Point to 12' Right) and elevations. Includes hinge point information.

file: Elev BL D for plan.wb3 Revised: 10/6/2001 for Dumpster

THE SUBJECT PROPERTY IS ZONED M-2 PER THE 10-18-93 COMPREHENSIVE ZONING PLAN

Approval form with signature lines for Director and Chief, Development Engineering Division, dated 3/10/03.

Subdivision information form for Howard County Detention Center, including parcel number 560 and zoning details.

PROPOSED IMPROVEMENTS: BUILDING ADDITION, SEE SITE ANALYSIS CHART FOR APPLICABLE DPZ FILE REFERENCE DPZ FILE REF. FOR CURRENT PROJECT SDP-02-20

H:\PROJECTS\CIVIL\0121901\PROGRESSIVE\C-21.DWG (C-21)

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DCI CONSULTING ENGINEERING AND PLANNING logo and address: 8950 Rt. 108 E., Suite 229 Columbia, MD. 21045.

REVISIONS table with columns for NO., DATE, and DESCRIPTION. Includes revision 2 dated 9/15/05.

PAVEMENT ELEVATIONS project title block with Howard County Central Booking & District Court Commissioners Facility information.

CAPITAL PROJECT NO. C-21, SET SHEET 21 of 25, SDP-02-20.

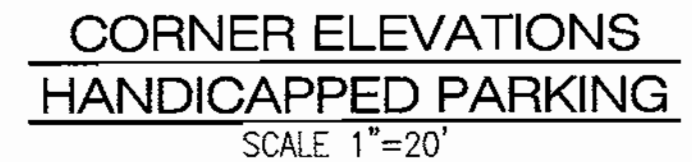
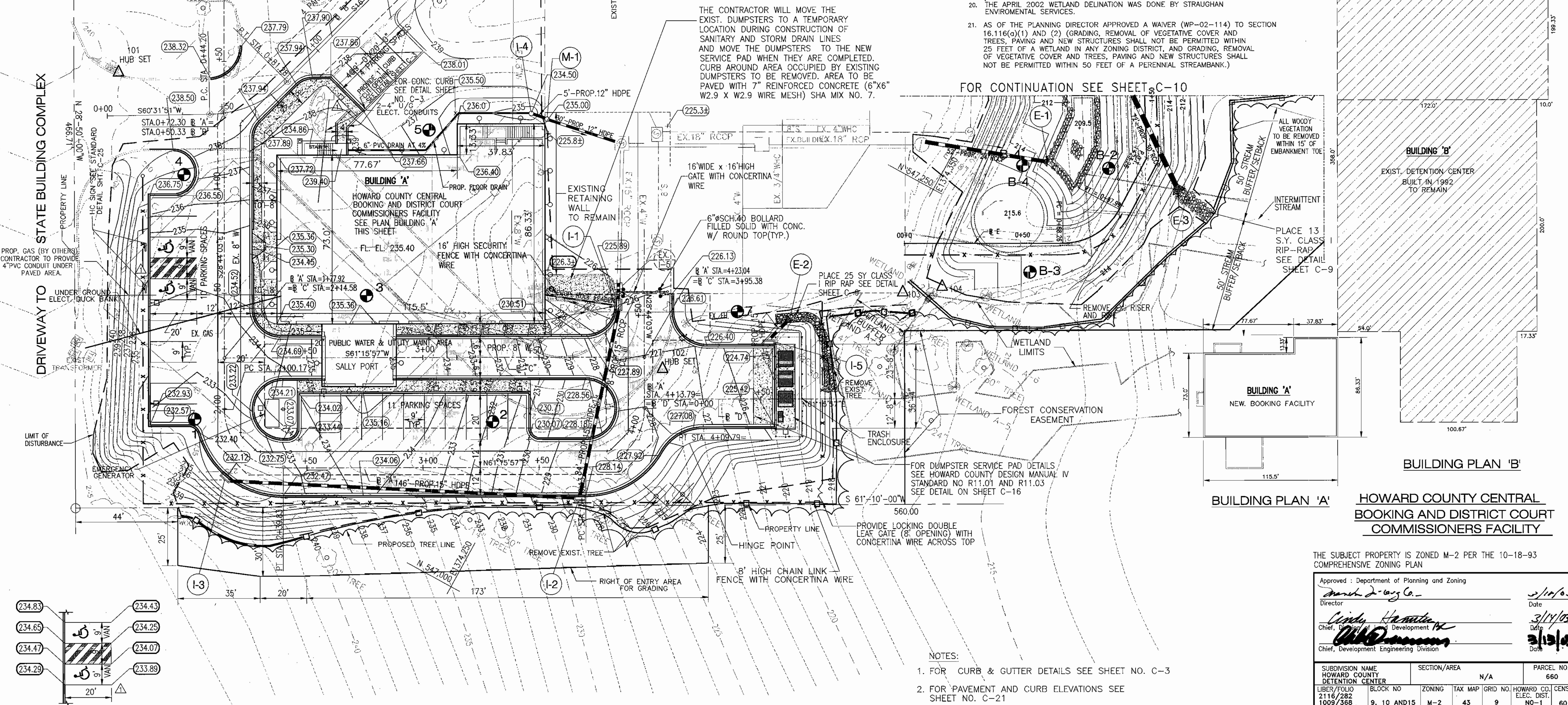
LEGEND:

- EX. EDGE OF BRUSH/TREES
EX. FENCE
PROPOSED CURB AND GUTTER(SEE DETAIL SHEET C-3)
PROPOSED P-3 PAVEMENT(SEE H.C. STD. R-2.01, SEE SHEET C-25)
PROPOSED SIDEWALK(SEE H.C. STD. R-3.05, SEE SHEET C-25)
BOTTOM OF CURB AND SPOT ELEVATION
INDICATES SOIL BORING TAKEN FOR BOOKING FACILITY SHOWN ON SDP 91-107 DATED 5-6-91
NEW FENCE
TREE
EXTERIOR POLE MOUNTED LIGHT FIXTURE
EXTERIOR WALL PACK FIXTURE
BLAZE ORANGE PLASTIC MESH TREE PROTECTION FENCE

GENERAL NOTES

- 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
2. TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
3. ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
4. THE EXISTING TOPOGRAPHY IS TAKEN FROM (FIELD RUN) SURVEY WITH 1 FOOT CONTOUR INTERVALS PREPARED BY PROGRESSIVE ENGINEERING CONSULTANTS, INC DATED JULY 2000.
5. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 43EA AND 43HB WERE USED FOR THIS PROJECT.
6. WATER IS PUBLIC PROJECT NO. C-5-0123 AND 44-4077.
7. SEWER IS PUBLIC PROJECT NO. C-5-0123.
8. EXISTING UTILITIES ARE BASED ON RECORD PLANS.
9. THERE IS NO FLOODPLAIN ON THIS SITE. (DANIEL CONSULTANTS 4/12/02)
10. NO TRAFFIC STUDY IS REQUIRED FOR THIS PROJECT.
11. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT (1-800-257-7777) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
12. ANY DAMAGE BY THE CONTRACTOR WITHIN THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT CONTRACTOR'S EXPENSE
13. CONTRACTOR WILL CHECK SEWER HOUSE CONNECTION ELEVATION AT PROPERTY LINE PRIOR TO CONSTRUCTION.
14. NO POSTER IS REQUIRED FOR PUBLIC NOTICE
15. FOR PEC TRAVERSE POINT LOCATIONS SEE SHEET NO. C-1
16. ALL TREES WITHIN THE LIMIT OF DISTURBANCE TO BE REMOVED.
17. SINCE THE PLAT WAS SUBMITTED FOR THE COUNTY REVIEW/APPROVAL PRIOR TO NOVEMBER 15, 2001, IT IS SUBJECT TO COMPLIANCE WITH THE REQUIREMENTS/RESTRICTIONS OF THE FOURTH EDITION OF THE COUNTY'S SUBDIVISION AND LAND DEVELOPMENT REGULATIONS.
18. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE WETLANDS, STREAM(S) OR OTHER BUFFERS AND FOREST CONSERVATION EASEMENT AREA, EXCEPT AS REQUIRED TO CONSTRUCT THE STORMWATER MANAGEMENT POND RETROFIT AS PER WP-02-114.
19. THE FOREST CONSERVATION OBLIGATION INCURRED BY THIS SITE DEVELOPMENT PLAN (2.11 ACRES) HAS BEEN MET BY THE RECORDATION OF 2.11 ACRES OF FOREST CONSERVATION EASEMENTS.
20. THE APRIL 2002 WETLAND DELINEATION WAS DONE BY STRAUGHAN ENVIRONMENTAL SERVICES.
21. AS OF THE PLANNING DIRECTOR APPROVED A WAIVER (WP-02-114) TO SECTION 16.116(a)(1) AND (2) (GRADING, REMOVAL OF VEGETATIVE COVER AND TREES, PAVING AND NEW STRUCTURES SHALL NOT BE PERMITTED WITHIN 25 FEET OF A WETLAND IN ANY ZONING DISTRICT, AND GRADING, REMOVAL OF VEGETATIVE COVER AND TREES, PAVING AND NEW STRUCTURES SHALL NOT BE PERMITTED WITHIN 50 FEET OF A PERENNIAL STREAMBANK.)

- APPROVAL WAS SUBJECT TO THE FOLLOWING CONDITIONS:
a. ALL GRADING, CLEARING OR CONSTRUCTION DISTURBANCES WITHIN THE WETLANDS, WETLAND BUFFER AND STREAM BUFFER SHALL BE KEPT TO A MINIMUM NECESSARY TO RETROFIT THE EXISTING SWM FACILITY. THIS WAIVER APPROVAL APPLIES ONLY TO THE GRADING SHOWN ON THE PLAN EXHIBIT DATED JANUARY 25, 2002.
b. ALL GRADED AREAS MUST BE RESTABILIZED AND REVEGETATED.
c. HOLD THE L.O.D. TO EXPAND NO FURTHER THAN THE EXISTING OUTSIDE TOE-OF-DAM.
d. LIMIT EMBANKMENT SLOPES TO 3:1, BOTH SIDES, PER HOWARD SCD CRITERIA, I.E. DO NOT EXPAND TOE INTO WETLAND OR STREAM BUFFER.
22. EXTERIOR LIGHTING WILL BE IN CONFORMANCE WITH SECTION 134 OF THE HOWARD COUNTY ZONING REGULATIONS. 178.33



CORNER ELEVATIONS HANDICAPPED PARKING SCALE 1"=20'

SITE PLAN SCALE 1"=20'

- NOTES:
1. FOR CURB & GUTTER DETAILS SEE SHEET NO. C-3
2. FOR PAVEMENT AND CURB ELEVATIONS SEE SHEET NO. C-21
3. FOR SIDEWALK DETAILS SEE H.C. STD. NO. R-3.05, SEE SHEET C-25
4. USE TYPE "A" SIDEWALK RAMP H.C. STD. R4.01, SEE SHEET C-25

HOWARD COUNTY CENTRAL BOOKING AND DISTRICT COURT COMMISSIONERS FACILITY

THE SUBJECT PROPERTY IS ZONED M-2 PER THE 10-18-93 COMPREHENSIVE ZONING PLAN

Approval table with signatures and dates for Director, Chief of Planning and Development, and Chief of Development Engineering Division.

Table with columns: SUBDIVISION NAME, SECTION/AREA, PARCEL NO., LIBER/FOLIO, BLOCK NO, ZONING, TAX MAP, GRID NO, HOWARD CO. ELEC. DIST., CENSUS TR.

PROPOSED IMPROVEMENTS BUILDING ADDITION, SEE SITE ANALYSIS CHART FOR APPLICABLE DPZ FILE REFERENCE DPZ FILE REF. FOR CURRENT PROJECT SDP-02-20

Site and Grading Plan title block including project name, location, date (FEBRUARY 21, 2003), and sheet number (C-2 of 25).

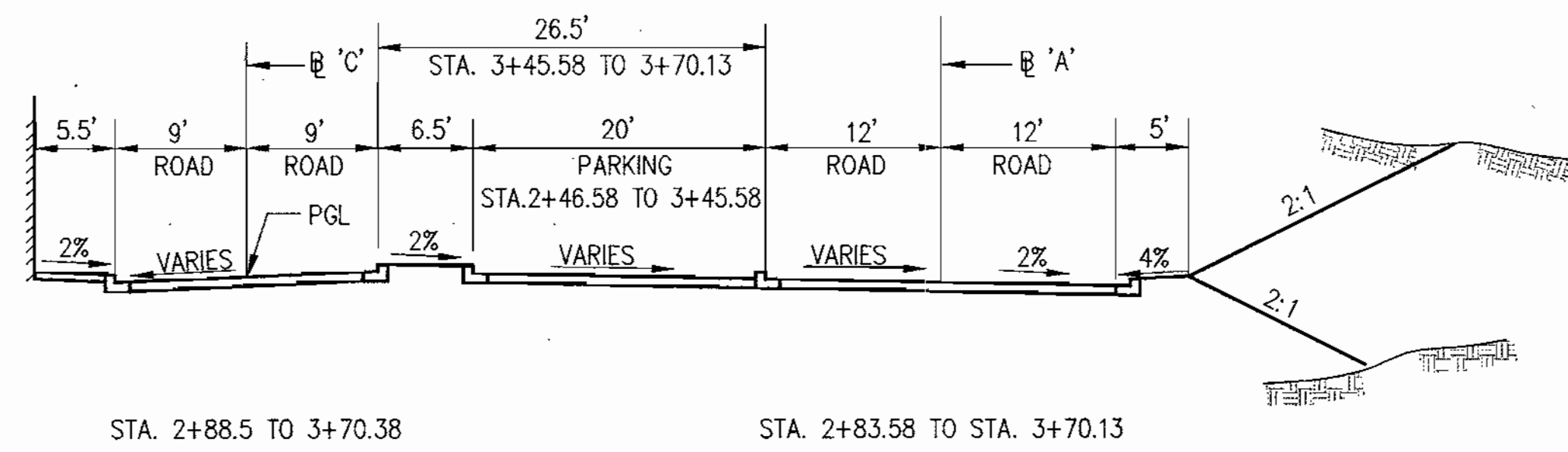
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Architects Engineers and Construction Consultants logo and address: 8950 Route 108 Suite 218, Columbia Maryland 21045

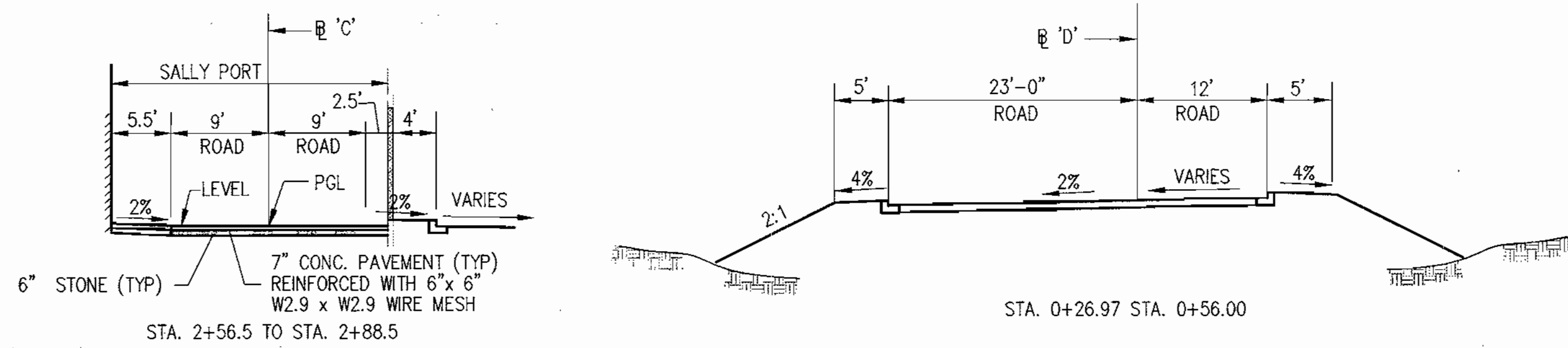


DCI CONSULTING ENGINEERING AND PLANNING logo and address: 8950 Rt. 108 E., Suite 229, Columbia, MD, 21045

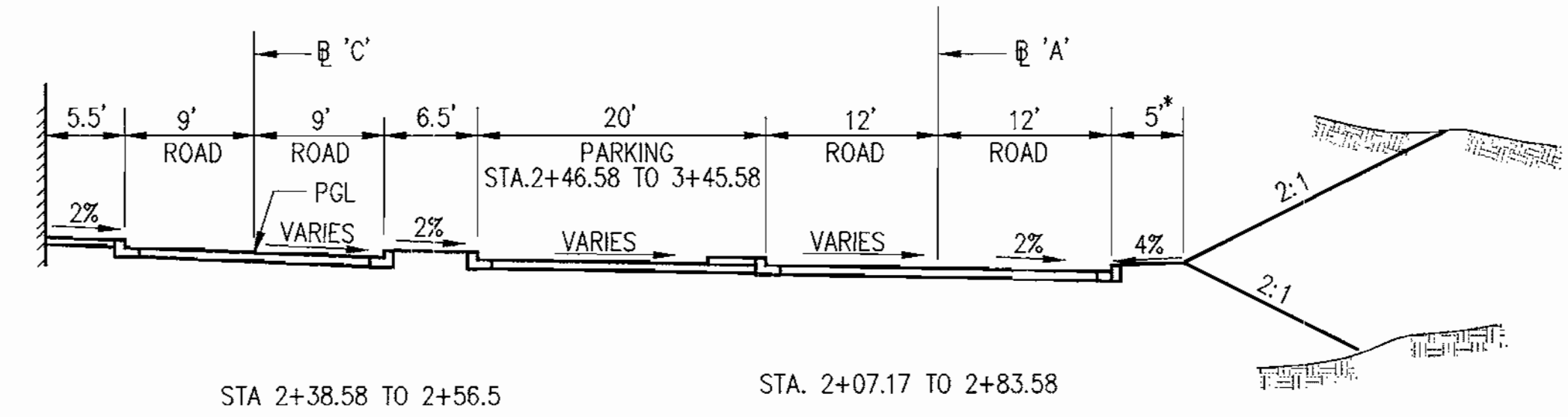
Revisions table with columns: NO., DATE, DESCRIPTION. Includes entry 1: 3/12/03, ADDENDUM NO. 1.



TYPICAL SECTION
SCALE: 1"=10'

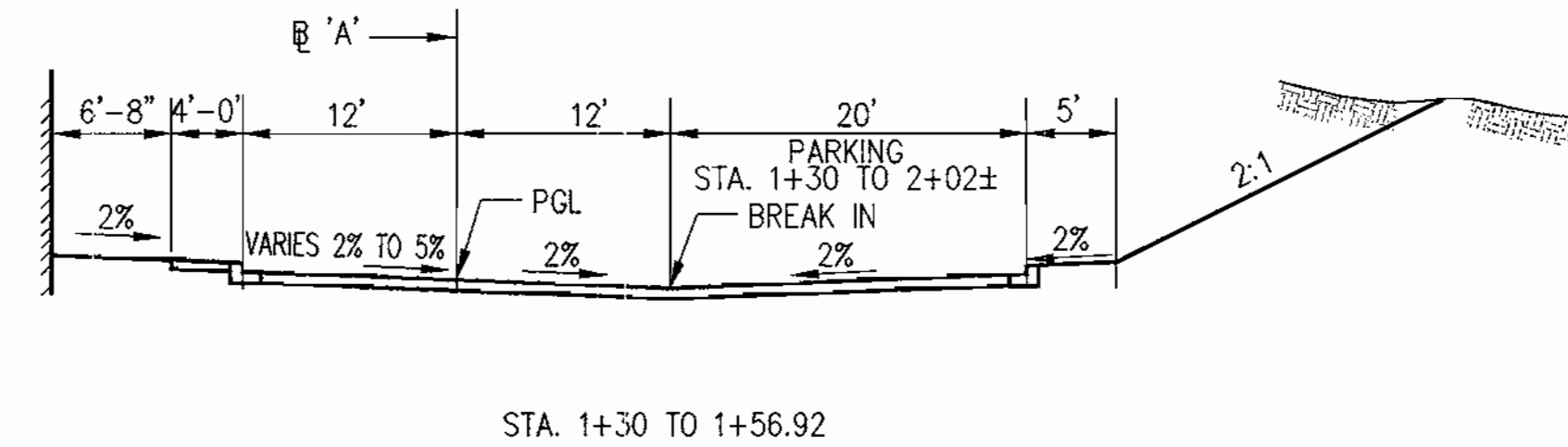


TYPICAL SECTION
SCALE: 1"=10'

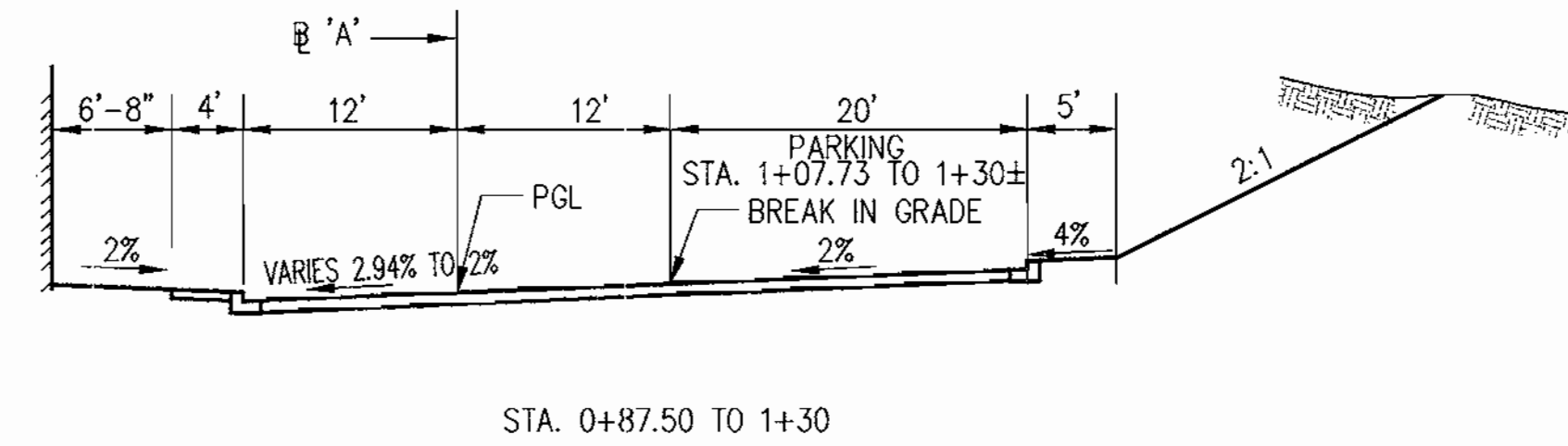


TYPICAL SECTION
SCALE: 1"=10'

* FROM B 'A' STA 2+39.83 TO STA 3+70 CURB BACKING WIDTH TO BE REDUCED TO 3'.

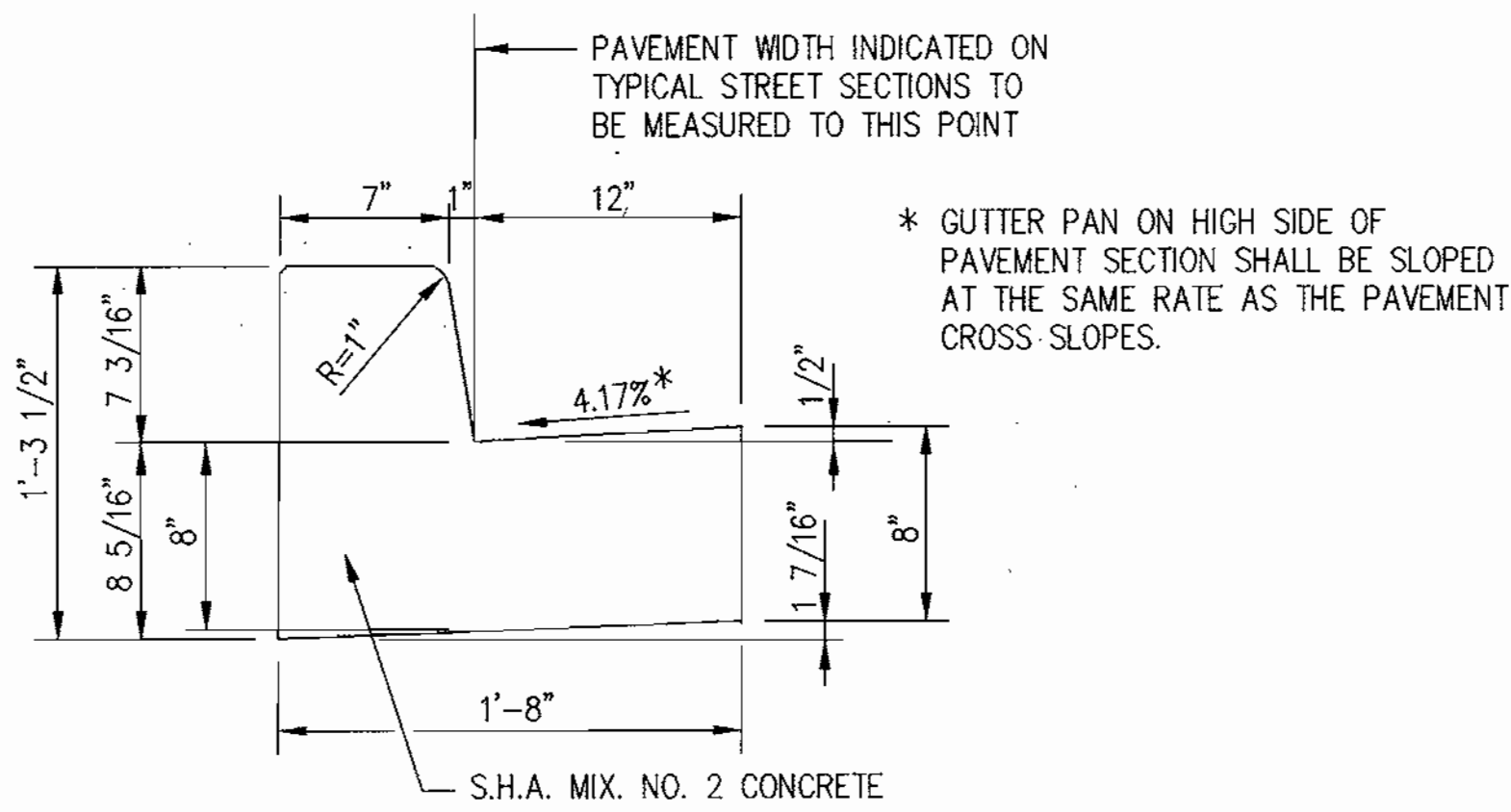


TYPICAL SECTION
SCALE: 1"=10'

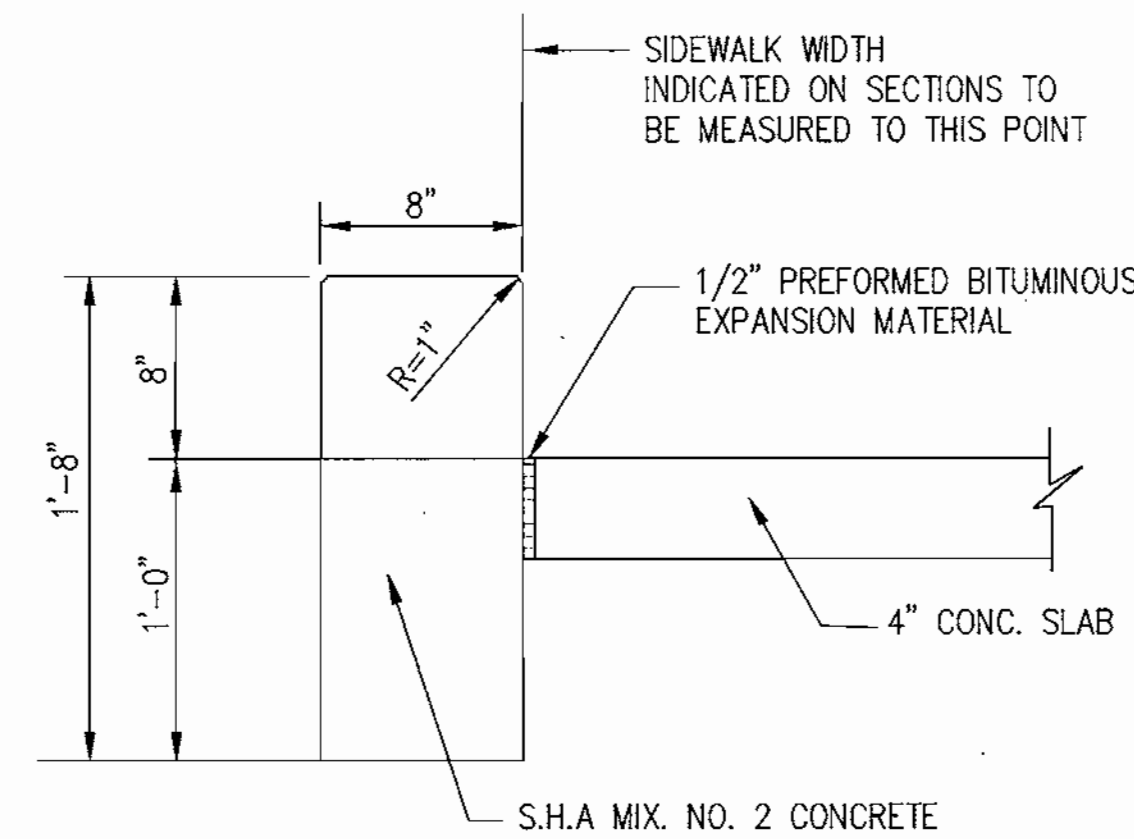


TYPICAL SECTION
SCALE: 1"=10'

- NOTE:**
1. ALL PAVEMENT SECTIONS P-3 HOWARD CO. STD. R-2.01 GRADULAR BASE ALTERNATE, ONLY (SHEET C-25) Δ
 2. FOR PAVEMENT AND CURB ELEVATIONS SEE SHEET NO. C-12
 3. PLACE 2" TOP SOIL WITH SEED & MULCH ON ALL EXPOSED GRADED AREAS
 4. FOR HANDICAP SIGN SEE STD. DETAIL ON SHEET C-25
 5. FOR SIDEWALK DETAILS SEE H.C. STANDARD R-3.05 (SHEET C-25)
 6. USE TYPE A SIDEWALK RAMP HOWARD CO. STD. R-4.01 (SHEET C-25)

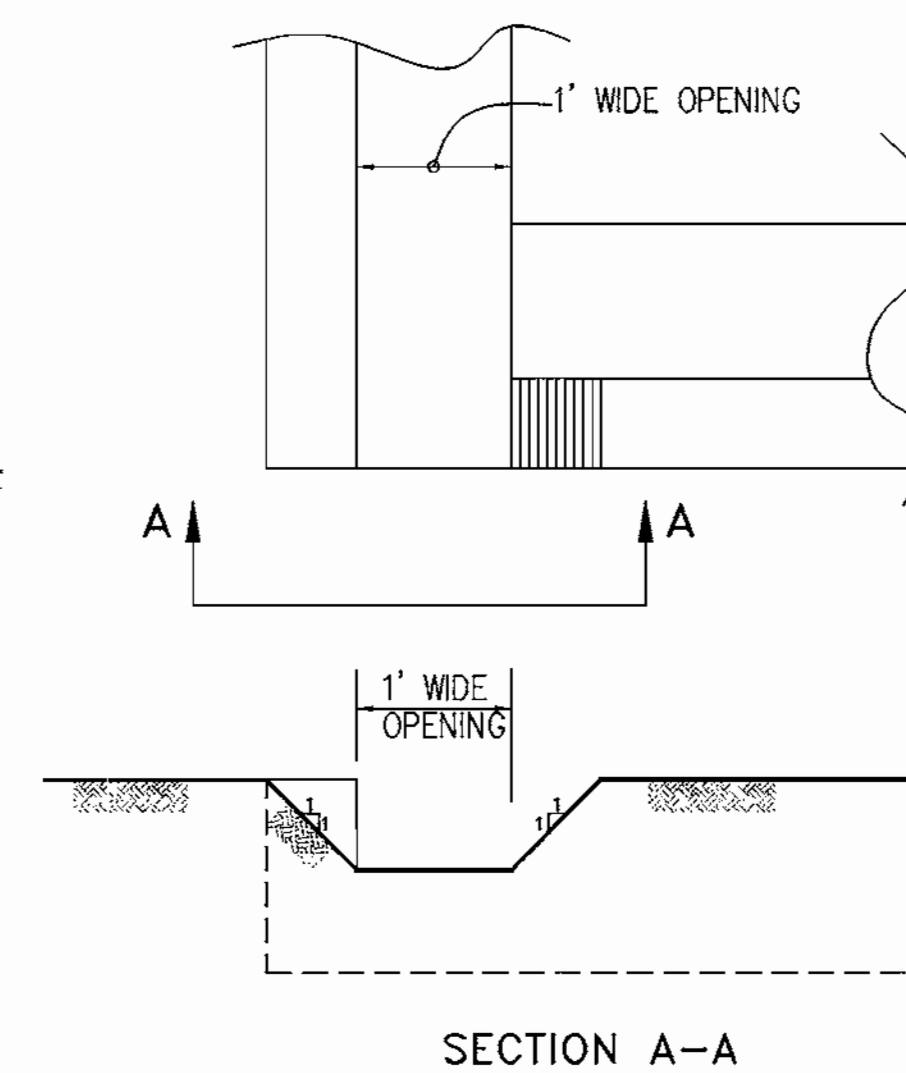


STANDARD 7" COMBINATION CURB AND GUTTER
SCALE: N.T.S.



CURB DETAIL
SCALE: N.T.S.

CURB OPENING DETAIL
NOT TO SCALE



SECTION A-A

THE SUBJECT PROPERTY IS ZONED M-2 PER THE 10-18-93 COMPREHENSIVE ZONING PLAN

Approved: Department of Planning and Zoning			
Director: <i>Janice D. Logli</i>			Date: 2/18/03
Chief, Division of Land Development: <i>Cindy Harvett</i>			Date: 2/14/03
Chief, Development Engineering Division: <i>Chad D...</i>			Date: 2/19/03
SUBDIVISION NAME HOWARD COUNTY DETENTION CENTER	SECTION/AREA N/A	PARCEL NO. 660	
LIBER/FOLIO 2116/282 1009/368 15840/15841	BLOCK NO 9.10 AND 15	ZONING M-2	TAX MAP GRID NO. 43 9
WATER CODE B01		SEWER CODE 2221000	
PROPOSED IMPROVEMENTS BUILDING ADDITION. SEE SITE ANALYSIS CHART FOR APPLICABLE DPZ FILE REFERENCE DP2 FILE REF. FOR CURRENT PROJECT SDP-02-20			

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8950 Route 108 Suite 218
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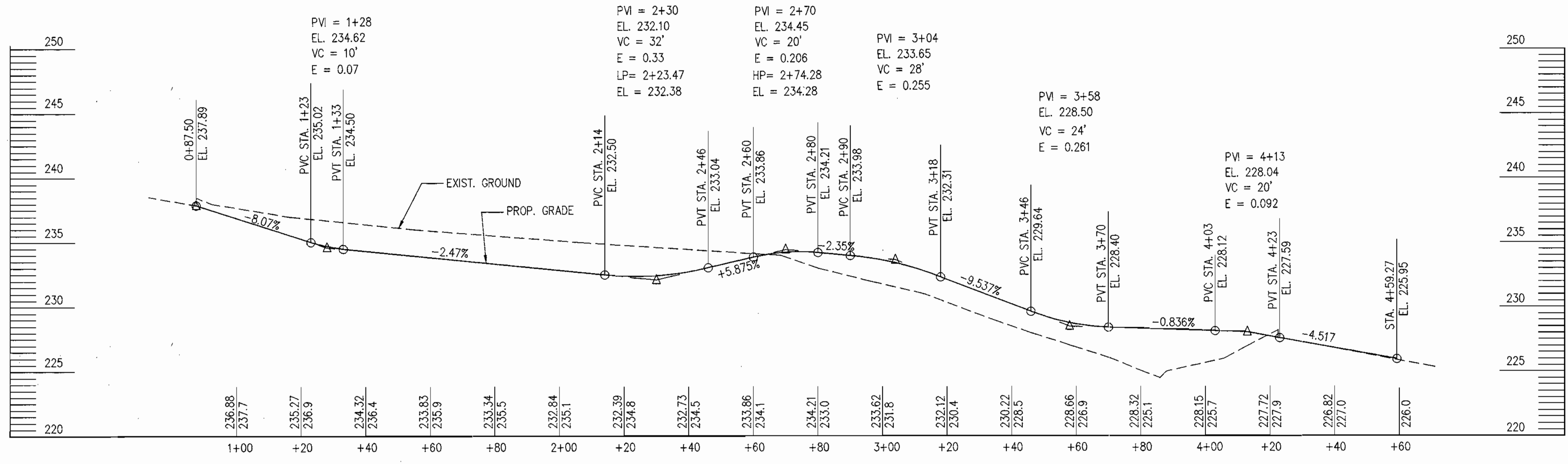


DCI CONSULTING ENGINEERING AND PLANNING
8950 Rt. 108 E., Suite 229 Columbia, MD. 21045
Phone: 410-995-0090 Fax: 410-992-7038

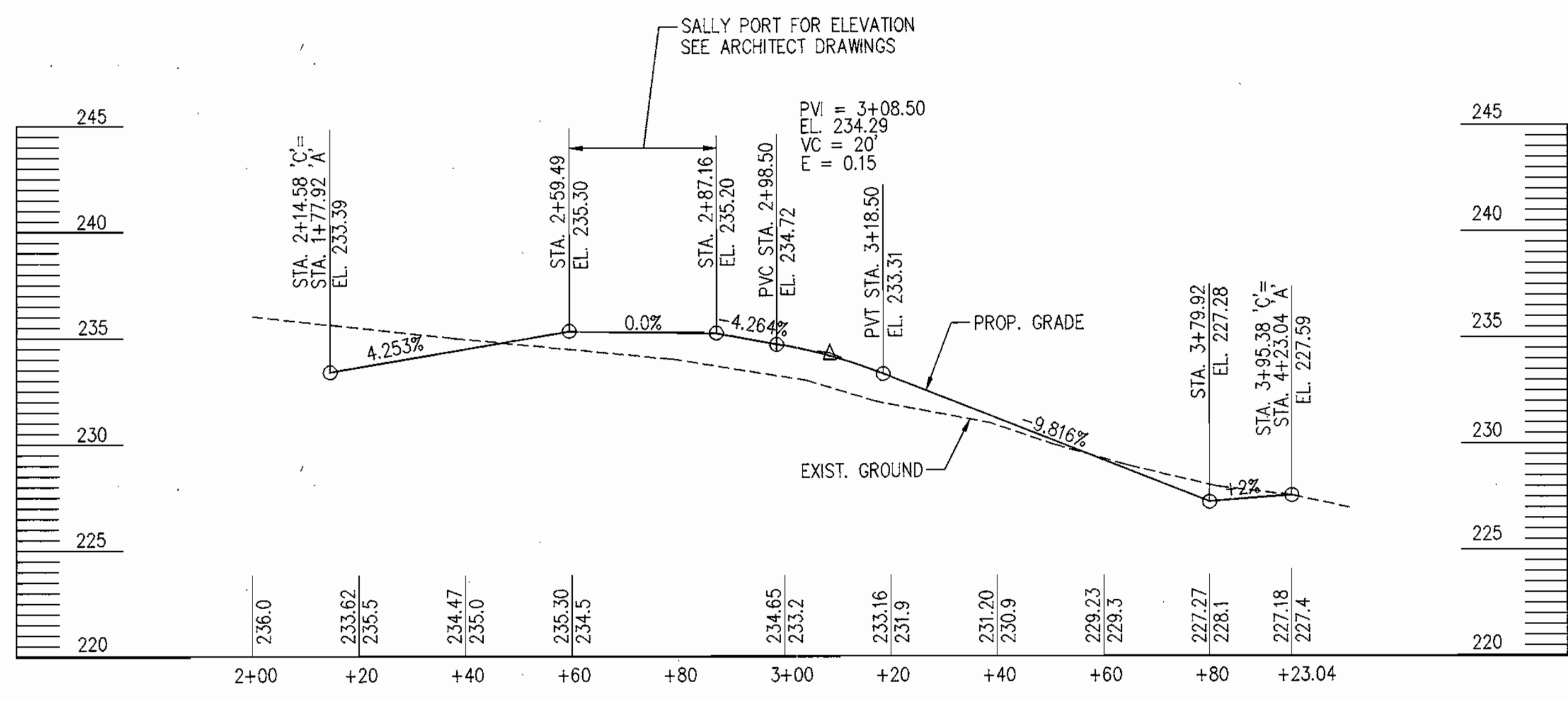
REVISIONS		
NO.	DATE	DESCRIPTION
Δ	3/12/03	ADDENDUM NO. 1

TYPICAL SECTIONS
HOWARD COUNTY CENTRAL BOOKING & DISTRICT COURT COMMISSIONERS FACILITY
HOWARD COUNTY, MARYLAND
DATE: FEBRUARY 21, 2003

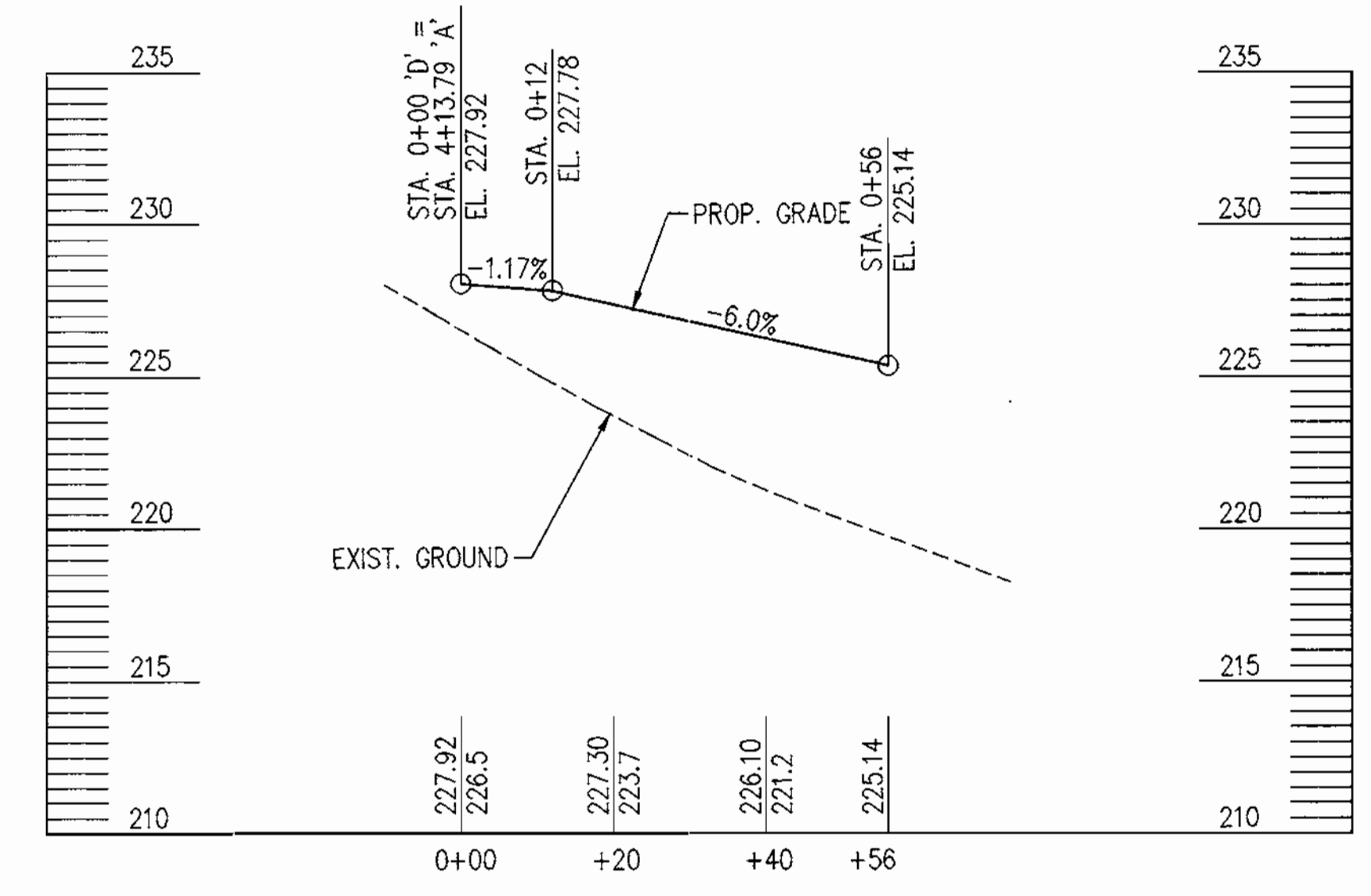
CAPITAL PROJECT NO.
 P - 4916
C-3
SET SHEET 3 OF 25
SDP-02-20



PROFILE ROAD 'A'
SCALE: HORS=1"=20'
VERT: 1"=5'



PROFILE ROAD 'C'
SCALE: HORS=1"=20'
VERT: 1"=5'



PROFILE ROAD 'D'
SCALE: HORS=1"=20'
VERT: 1"=5'

THE SUBJECT PROPERTY IS ZONED M-2 PER THE 10-18-93 COMPREHENSIVE ZONING PLAN

Approved: Department of Planning and Zoning
 Director: *Maria M. Leight* Date: 2/18/03
 Chief, Division of Land Development: *Windy Hamada* Date: 2/19/03
 Chief, Development Engineering Division: *Chris Danner* Date: 2/19/03

SUBDIVISION NAME HOWARD COUNTY DETENTION CENTER		SECTION/AREA N/A	PARCEL NO. 660
LIBER/FOLIO 2116/282 1009/368	BLOCK NO 9,10 AND 15	ZONING M-2	TAX MAP 43
GRID NO. 184, 184A	HOWARD CO. NO-1	CENSUS TR. 6012.02	SEWER CODE 2221000
WATER CODE 801			

PROPOSED IMPROVEMENTS
 BUILDING ADDITION, SEE SITE ANALYSIS CHART FOR APPLICABLE DPZ FILE
 REFERENCE DPZ FILE REF. FOR CURRENT PROJECT SDP-02-20

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8950 Route 108 Suite 218
Columbia Maryland 21045 (410)995-4067 Fax(410)992-1837

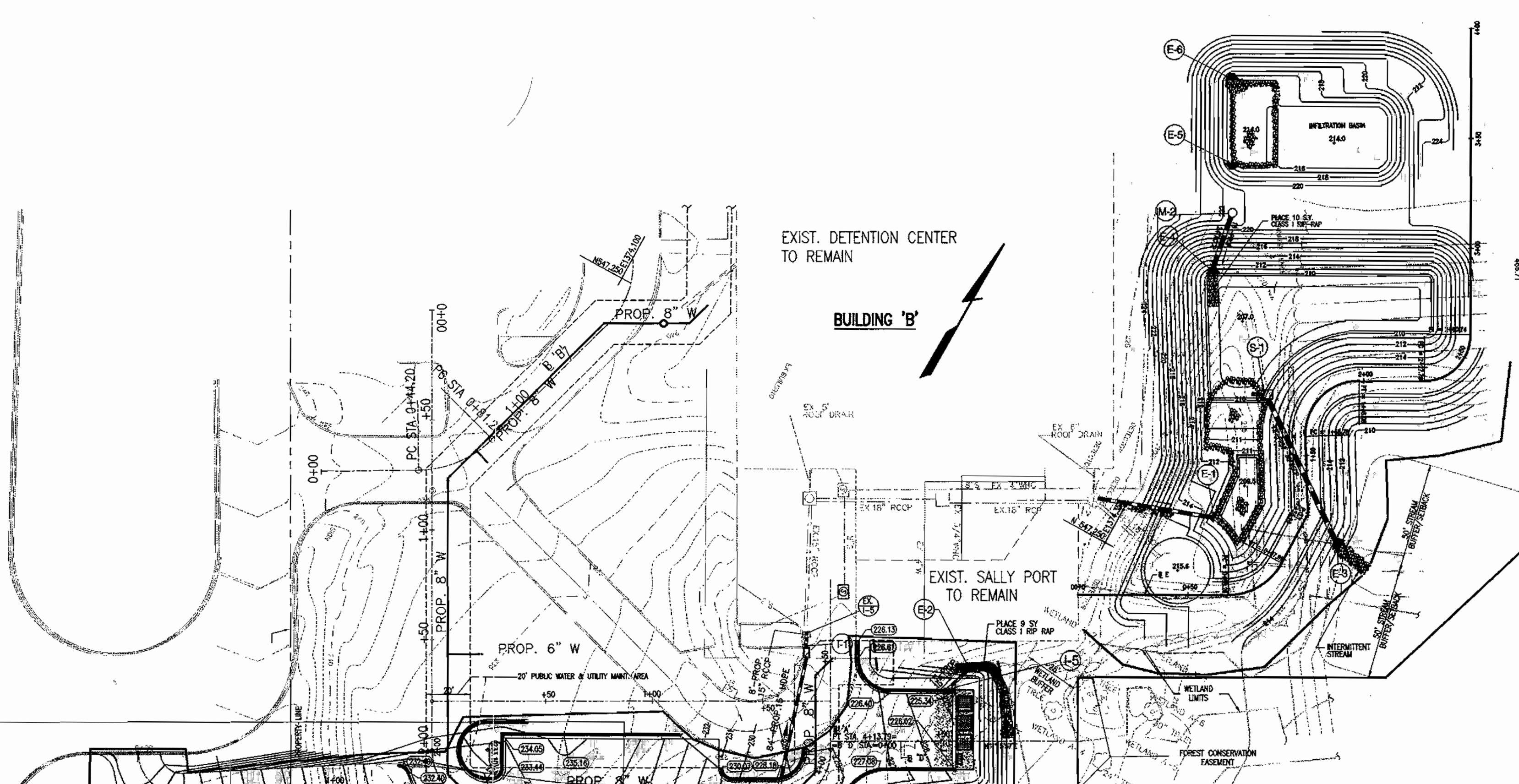
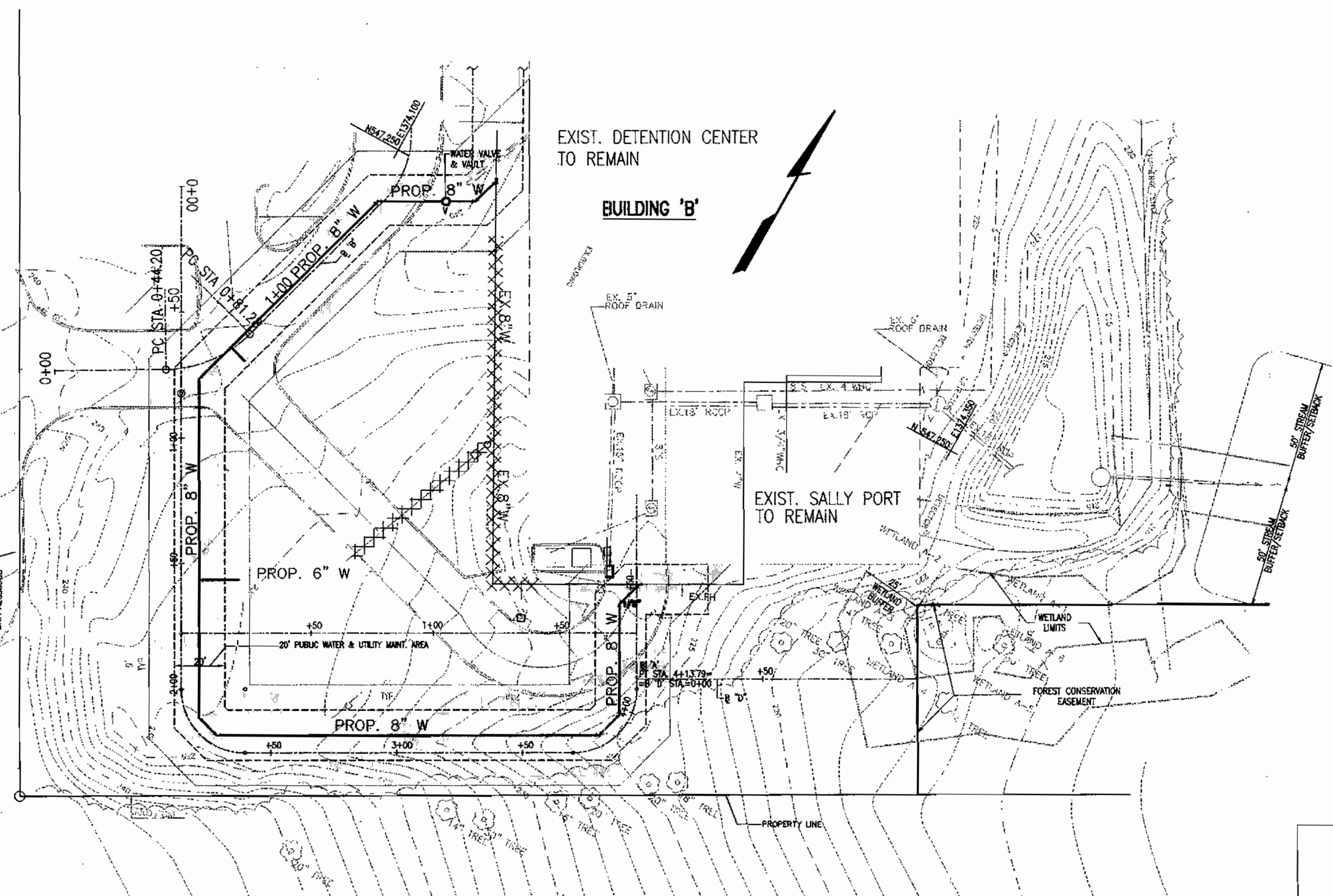


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Phone: 410-995-0090 Fax: 410-992-7038
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REVISIONS		
NO.	DATE	DESCRIPTION

ROADWAY PROFILES
 HOWARD COUNTY CENTRAL BOOKING &
 DISTRICT COURT COMMISSIONERS FACILITY
 HOWARD COUNTY, MARYLAND
 DATE: FEBRUARY 21, 2003

CAPITAL PROJECT NO.
 P - 4916
C-4
 SET SHEET 4 OF 25
 SDP-02-20

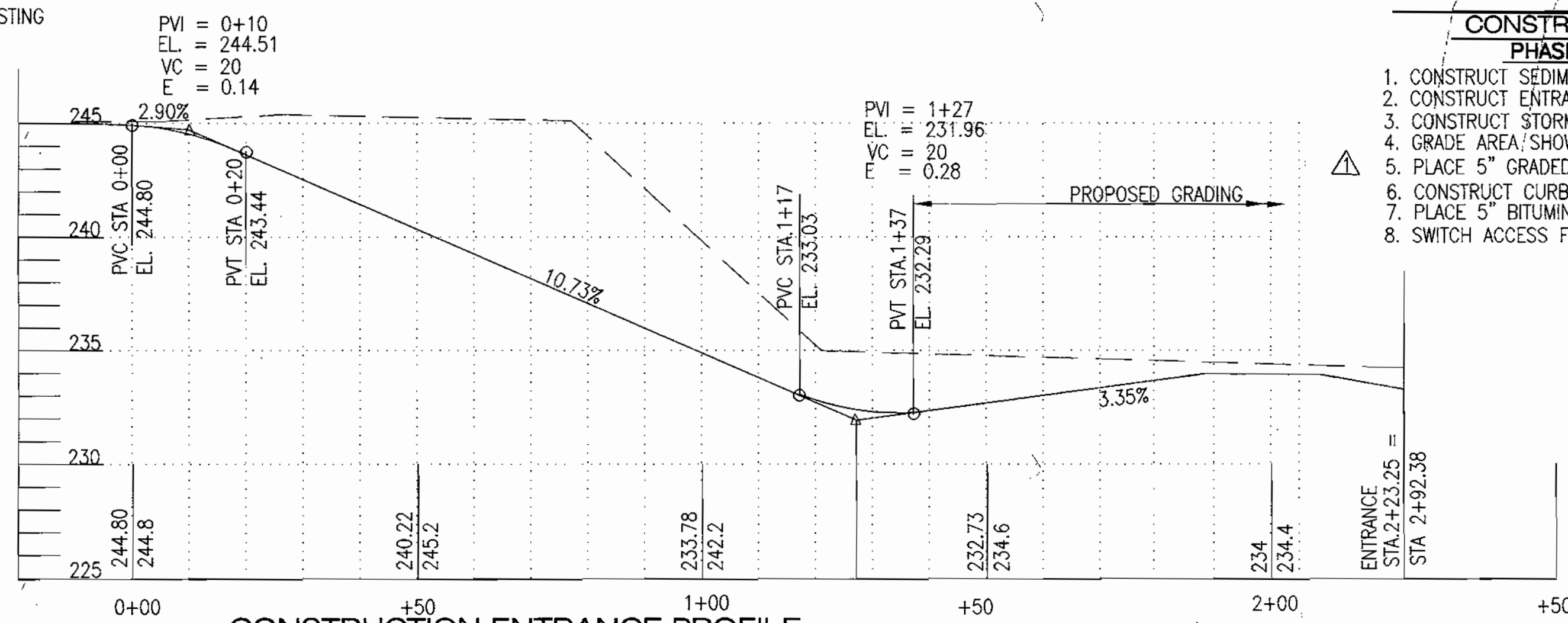


SEQUENCE OF CONSTRUCTION FOR CONSTRUCTION PHASING

- PHASE 1**
1. INSTALL NEW 8" WATER LINE
 2. CONNECT THE NEW WATER LINE TO THE EXISTING WATER LINE
 3. REMOVE EXISTING 8" WATER LINE BEYOND THE CONNECTION

PHASE - 1
SCALE: 1"=40'-0"

NOTE:
FIRE HYDRANT AT B A STA. 0+67 LT IS TO BE INSTALLED IN PHASE 4.



CONSTRUCTION ENTRANCE PROFILE
SCALE: HOR. 1"=20'-0"
VERT. 1"=5'-0"

SEQUENCE OF CONSTRUCTION FOR

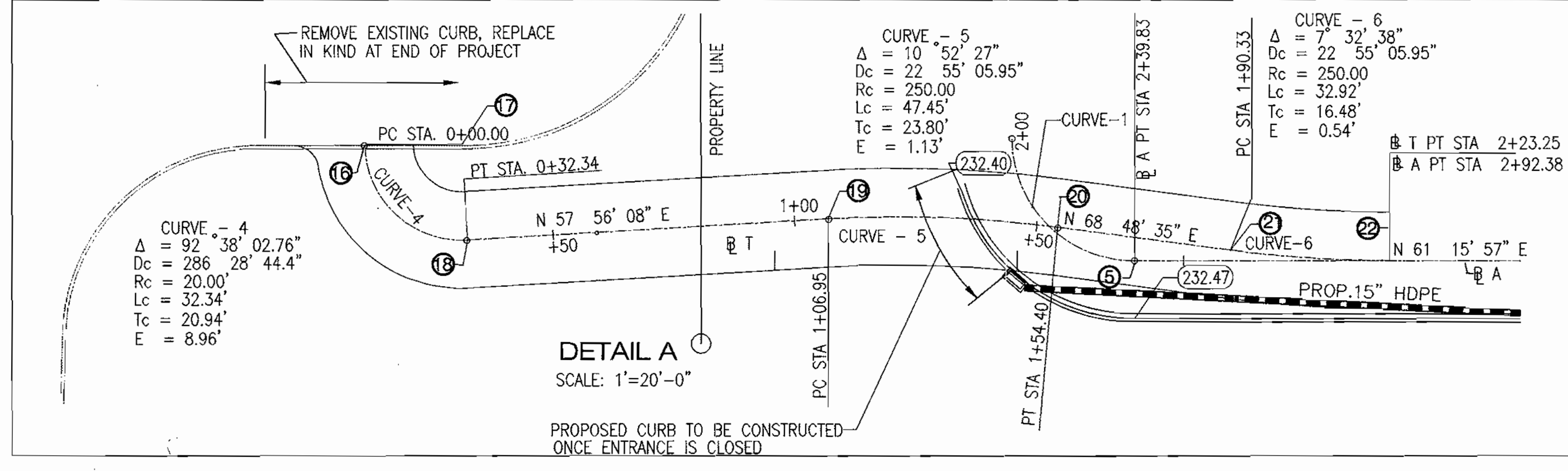
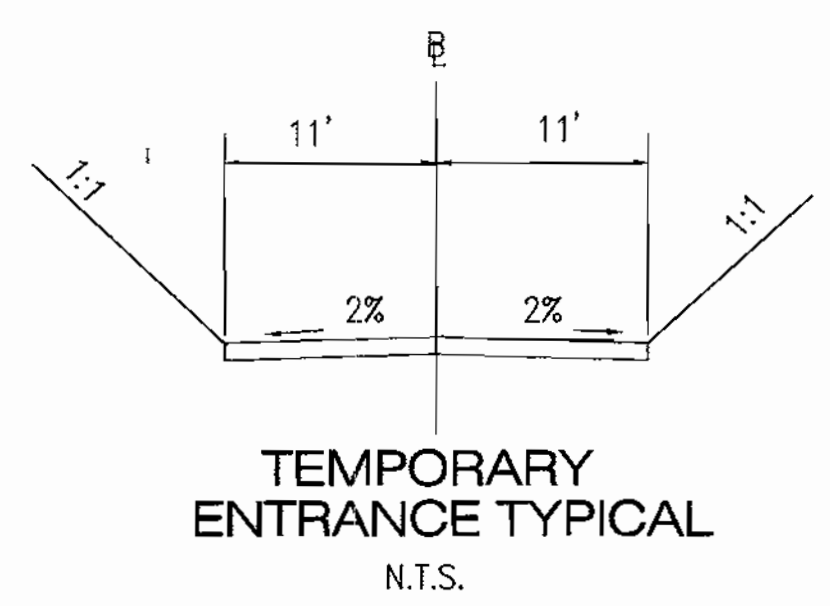
- PHASE 2**
1. CONSTRUCT SEDIMENT BASIN (SEE SHEET C-18)
 2. CONSTRUCT ENTRANCE
 3. CONSTRUCT STORM DRAIN AS SHOWN
 4. GRADE AREA SHOWN TO SUB-GRADE
 5. PLACE 5" GRADED AGGREGATE BASE COURSE
 6. CONSTRUCT CURB AND GUTTER
 7. PLACE 5" BITUMINOUS CONCRETE BASE
 8. SWITCH ACCESS FOR EXISTING BUILDING

PHASE - 2
SCALE: 1"=40'-0"

NO	NORTHING	EASTING
5	547010.5282	1374162.0097
16	546955.0569	1374011.2565
17	546964.9194	1374028.7379
18	546948.1216	1374039.2606
19	546987.7280	1374102.4854
20	547008.9615	1374144.8370
21	547021.9489	1374178.3371
22	547035.8329	1374208.1617

- LEGEND**
- EXISTING UTILITIES AND MODULAR BLDG. TO BE REMOVED
 - SEQUENCE OF CONSTRUCTION AREA

- NOTE:
1. ACCESS TO EXISTING BUILDING MUST BE MAINTAINED DURING CONSTRUCTION
 2. CONTRACTOR TO PROVIDE TEMPORARY LIGHTING FROM THE TIME THE EXISTING LIGHTS ARE REMOVED UNTIL THE PROPOSED LIGHTS BROUGHT ON LINE.
 3. FOR EROSION AND SEDIMENT CONTROL SEQUENCE OF CONSTRUCTION SEE SHEET C-18.
 4. TEMPORARY PAVING SECTION P3 (GRANDULAR BASE ALT. ONLY). HOWARD CO. STD. R-2.01 (SHEET C-25)



THE SUBJECT PROPERTY IS ZONED M-2 PER THE 10-18-93 COMPREHENSIVE ZONING PLAN

Approved: Department of Planning and Zoning
 Director: *Maria J. Lopez* Date: 3/20/03
 Chief, Division of Land Development: *Wanda Henders* Date: 3/14/03
 Chief, Development Engineering Division: *[Signature]* Date: 3/13/03

SUBDIVISION NAME HOWARD COUNTY DETENTION CENTER	SECTION/AREA N/A	PARCEL NO. 660
LIBER/FOLIO 2116/282 1009/368 15840, 15841	BLOCK NO. 9, 10 AND 15	ZONING M-2
TAX MAP 43	GRID NO. 9	HOWARD CO. ELEC. DIST. NO-1
WATER CODE B01	SEWER CODE 2221000	CENSUS TR. 6012.02

PROPOSED IMPROVEMENTS
 BUILDING ADDITION, SEE SITE ANALYSIS CHART FOR APPLICABLE DPZ FILE REFERENCE DPZ FILE REF. FOR CURRENT PROJECT SDP-02-20

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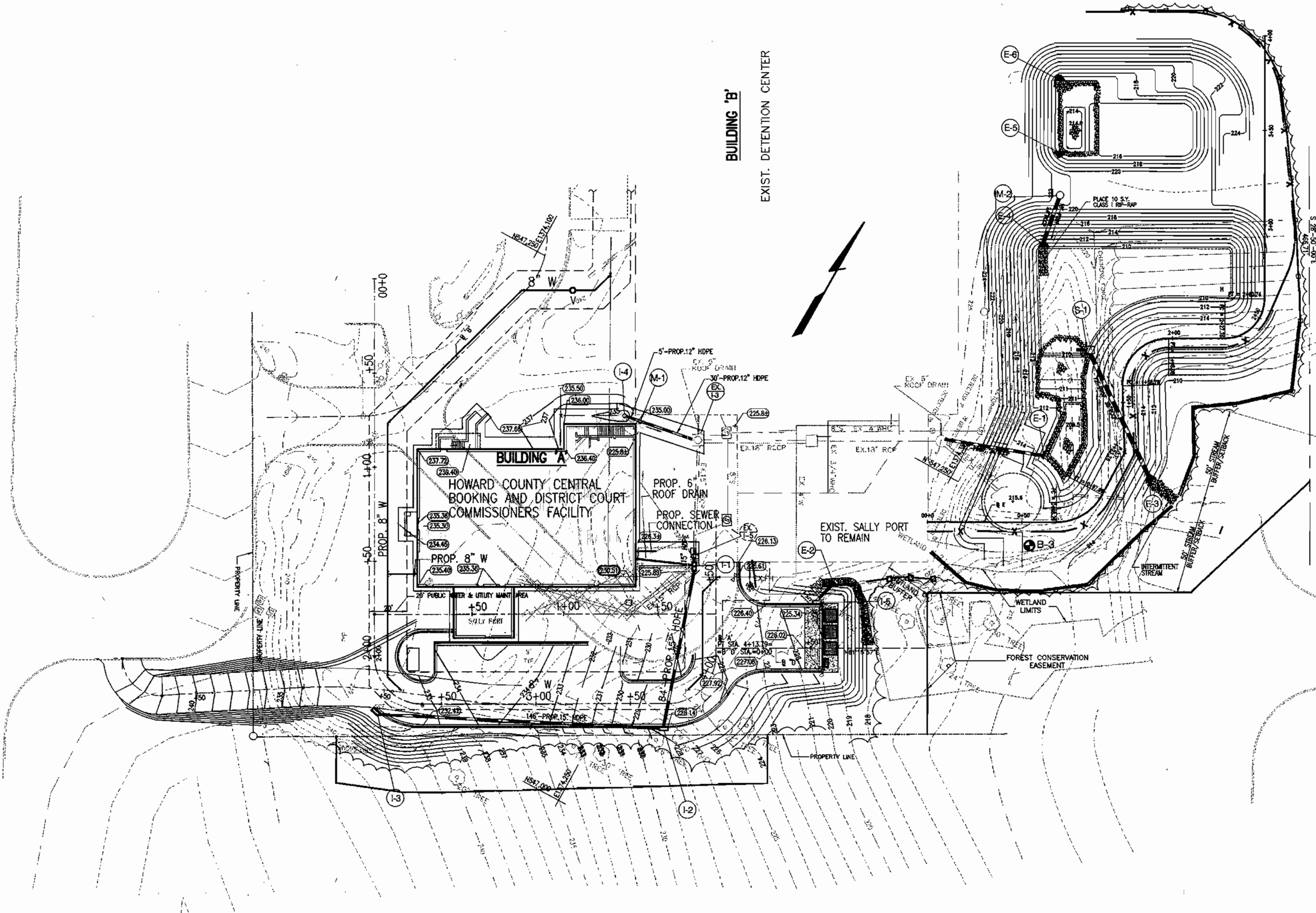
DCI CONSULTING ENGINEERING AND PLANNING
 8950 Rt. 108 E., Suite 229 Columbia, MD. 21045
 Phone: 410-995-0090 Fax: 410-992-7038

REVISIONS

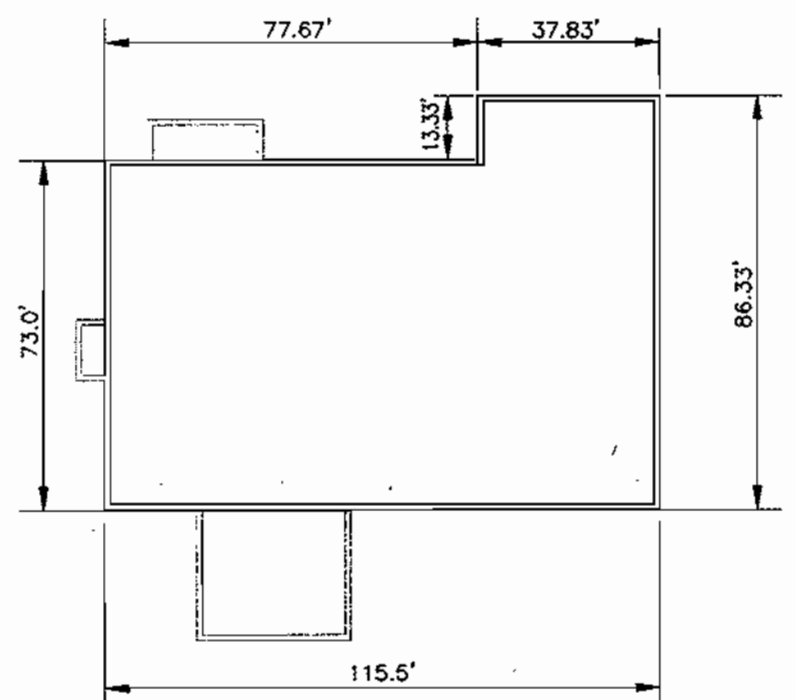
NO.	DATE	DESCRIPTION
1	03/12/03	ADDENDUM NO. 1

SEQUENCE OF CONSTRUCTION - 1
 HOWARD COUNTY CENTRAL BOOKING & DISTRICT COURT COMMISSIONERS FACILITY
 HOWARD COUNTY, MARYLAND
 DATE: FEBRUARY 21, 2003

CAPITAL PROJECT NO.
 P - 4916
C-5
 SET SHEET 5 OF 25



PHASE - 3
SCALE: 1"=40'-0"

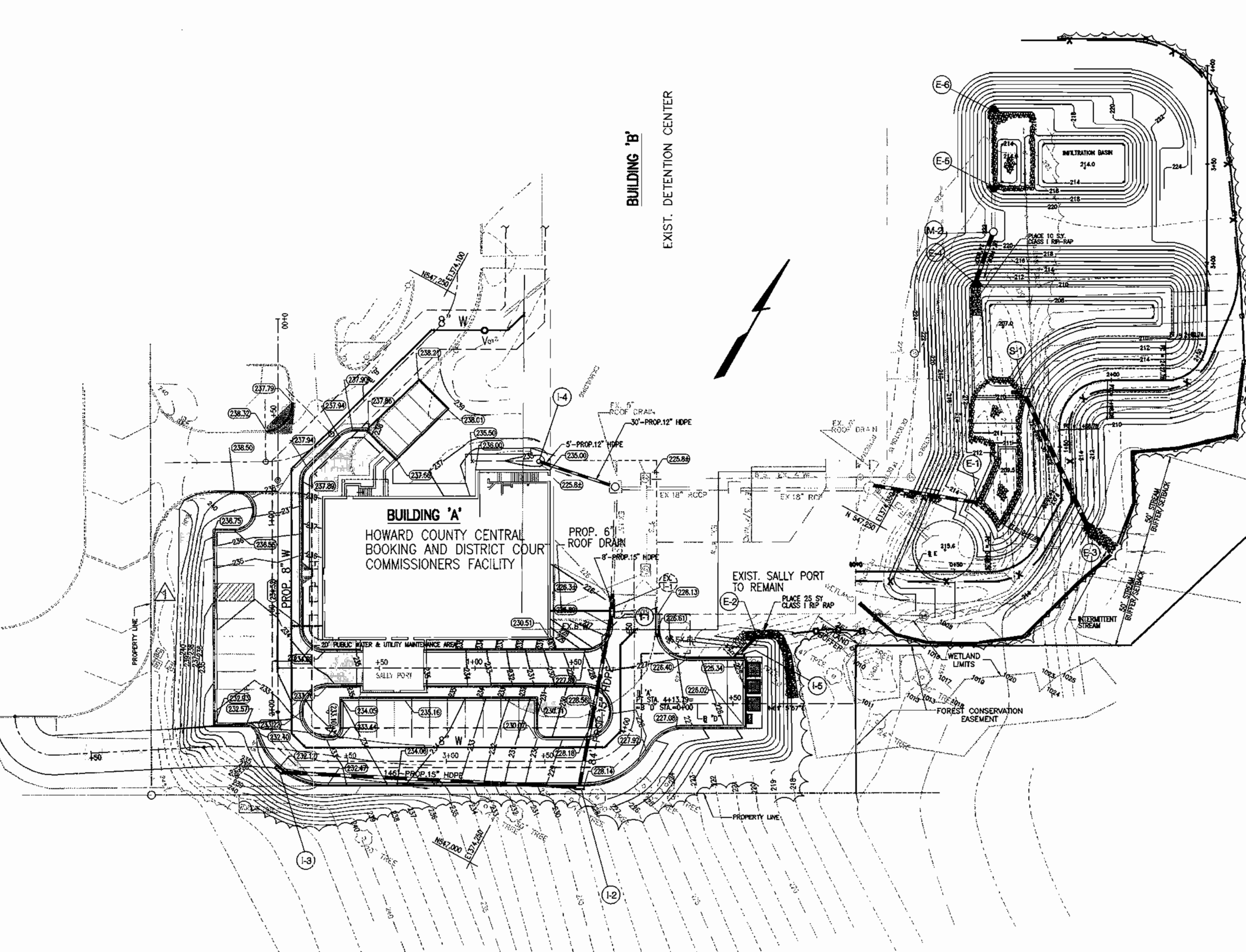


HOWARD COUNTY CENTRAL BOOKING AND DISTRICT COURT COMMISSIONERS FACILITY
PLAN BUILDING 'A'

SEQUENCE OF CONSTRUCTION FOR CONSTRUCTION PHASING

PHASE 3

1. REMOVE ALL REMAINING UTILITIES AND STORM DRAIN NOT REMOVED UNDER PHASE 1. CLOSE OPENING IN I-1 FOR EXISTING 15" RCCP.
2. PREPARE SOIL FOR FOUNDATION FOR NEW BUILDING.
3. CONSTRUCT INLET I-4
4. FINISH BUILDING CONSTRUCTION.
5. MAKE WATER AND SEWER CONNECTION TO NEW BLDG.



PHASE - 4
SCALE: 1"=40'-0"

SEQUENCE OF CONSTRUCTION FOR CONSTRUCTION PHASING

PHASE 4:

1. GRADE AREA SHOWN TO SUB-GRADE
2. PLACE 6" GRADED AGGREGATE BASE COURSE
3. CONSTRUCT CURB AND GUTTER
4. PLACE 5" BITUMINOUS CONCRETE BASE
5. CONSTRUCT SIDEWALKS AS SHOWN ON THE PLANS
6. PLACE 1 1/2" BITUMINOUS CONCRETE SURFACE ON ALL NEW ROAD AND PARKING SURFACES
7. REMOVE ENTRANCE
8. REMOVE BAFFLES AND SEDIMENT BASIN DRAW DOWN DEVICE AND INFILTRATION BASIN, AND FINAL POND GRADING

THE SUBJECT PROPERTY IS ZONED M-2 PER THE 10-18-93 COMPREHENSIVE ZONING PLAN

LEGEND

- SEQUENCE OF CONSTRUCTION AREA
- EXISTING UTILITIES TO BE REMOVED

NOTE:

1. ACCESS TO EXISTING BUILDING MUST BE MAINTAINED DURING CONSTRUCTION
2. CONTRACTOR TO PROVIDE TEMPORARY LIGHTING FROM THE TIME THE EXISTING LIGHTS ARE REMOVED UNTIL THE PROPOSED LIGHTS BROUGHT ON LINE.
3. FOR EROSION AND SEDIMENT CONTROL SEQUENCE OF CONSTRUCTION SEE SHEET C-18.

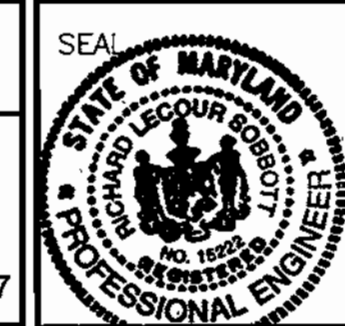
Approved: Department of Planning and Zoning
Marsha D. Leagle 2/10/03
 Director Date
Carole Annitta 2/14/03
 Chief, Division of Land Development Date
John J. ... 2/10/03
 Chief, Development Engineering Division Date

SUBDIVISION NAME HOWARD COUNTY DETENTION CENTER		SECTION/AREA N/A	PARCEL NO. 660
LIBER/FOLIO 2116/282 1009/368 15040, 15841	BLOCK NO 9, 10 AND 15	ZONING M-2	TAX MAP GRID NO. 43 9
WATER CODE B01		HOWARD CO. ELEC. DIST. NO-1	CENSUS TR. 6012.02
		SEWER CODE 2221000	

PROPOSED IMPROVEMENTS
 BUILDING ADDITION, SEE SITE ANALYSIS CHART FOR APPLICABLE DPZ FILE REFERENCE DPZ FILE REF. FOR CURRENT PROJECT SDP-02-20

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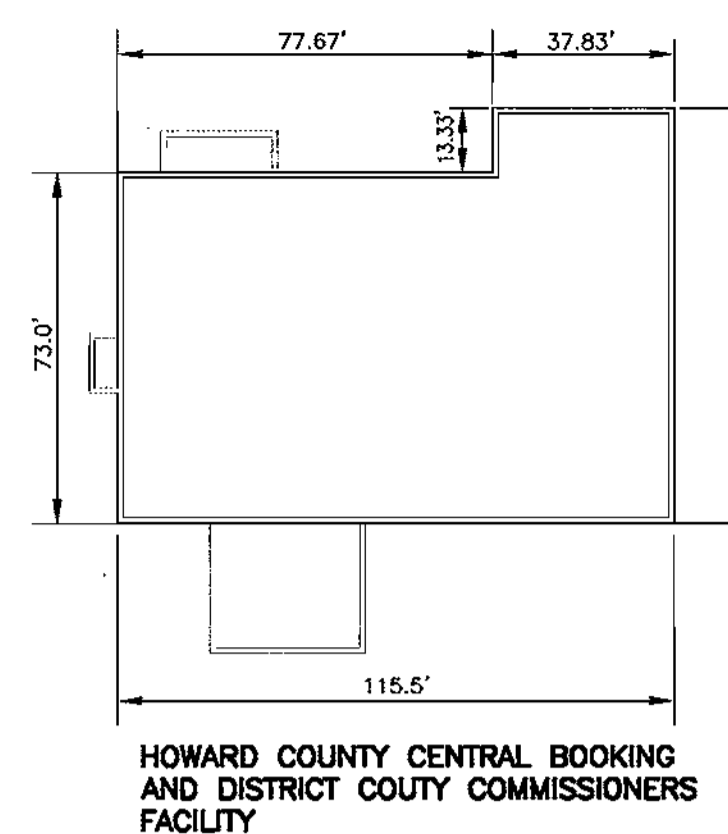
NO.	DATE	DESCRIPTION
1	3/12/03	ADDENDUM NO. 1

SEQUENCE OF CONSTRUCTION - II
 HOWARD COUNTY CENTRAL BOOKING & DISTRICT COURT COMMISSIONERS FACILITY
 HOWARD COUNTY, MARYLAND
 DATE: FEBRUARY 21, 2003

CAPITAL PROJECT NO.
 P - 4916
C-6
 SET SHEET 6 OF 25
 SDP-02-20

STRUCTURE SCHEDULE							
STRUCT. NO.	TYPE	STD. NO.	LOCATION	TOP ELEV.	INVERT IN	INVERT OUT	REMARK
I-4	YARD INLET	SD.4.14	NORTH CORNER OF BLDG.	234.50	-	224.05	DRAIN AT EL.=229.86
I-3	A-5 INLET	SD.4.40	STA. 2+23.47 @ A	232.72	-	227.70	WIDTH = 2'-6" LENGTH = 5'-0" (INSIDE DIMENSIONS)
I-2	A-5 INLET	SD.4.40	STA. 3+67 @ A	228.74	224.50	224.25	WIDTH = 2'-6" LENGTH = 5'-0" (INSIDE DIMENSIONS)
I-1	SINGLE WR INLET	SD.4.38	STA. 4+54 @ A	225.89	221.10	220.68	6" ROOF LEADER AT INVERT EL. 223.1
I-5	A-5 INLET	SD.4.40	STA. 0+56 @ D	225.34	-	222.34	WIDTH = 2'-6" LENGTH = 5'-0" (INSIDE DIMENSIONS)
E-2	END SECTION	HDPE	STA. 0+62 @ D	-	-	222.84	PROVIDE RIP RAP AT OUTLET
E-1	END SECTION	SD.5.52	STA. 0+60 @ E	-	-	210.00	PROVIDE RIP RAP AT OUTLET
EX I-5							TO BE REMOVED
M-1	SHALLOW MANHOLE	G5.05	STA. 3+53 @ C	235.8±	224.0	222.3	

STRUCTURE SCHEDULE						
STRUCT. NO.	TYPE	STD. NO.	LOCATION	TOP ELEV.	INVERT IN	INVERT OUT
E-3	END SECTION	SD.5.52	STA. 1+17 @ E	-	-	209.00
S-1	RISER	DETAIL SHEET C-15	STA. 1+69 @ E	SEE DET. C-15	-	209.5
SM-1	SHALLOW MANHOLE	G5.05	STA. 3+55 @ C	226.8	224.0	223.4
E-4	END SECTION	SD.5.52	STA. 2+80 @ E	-	-	209.5
E-5	END SECTION	SD.5.52	STA. 3+37 @ E	-	-	216.2
M-2	MANHOLE	G5.12	STA. 3+13 @ E	221.5	216.0	210.0
E-6	END SECTION	SD.5.52	STA. 3+78 @ E	-	-	216.3



HOWARD COUNTY CENTRAL BOOKING AND DISTRICT COURT COMMISSIONERS FACILITY

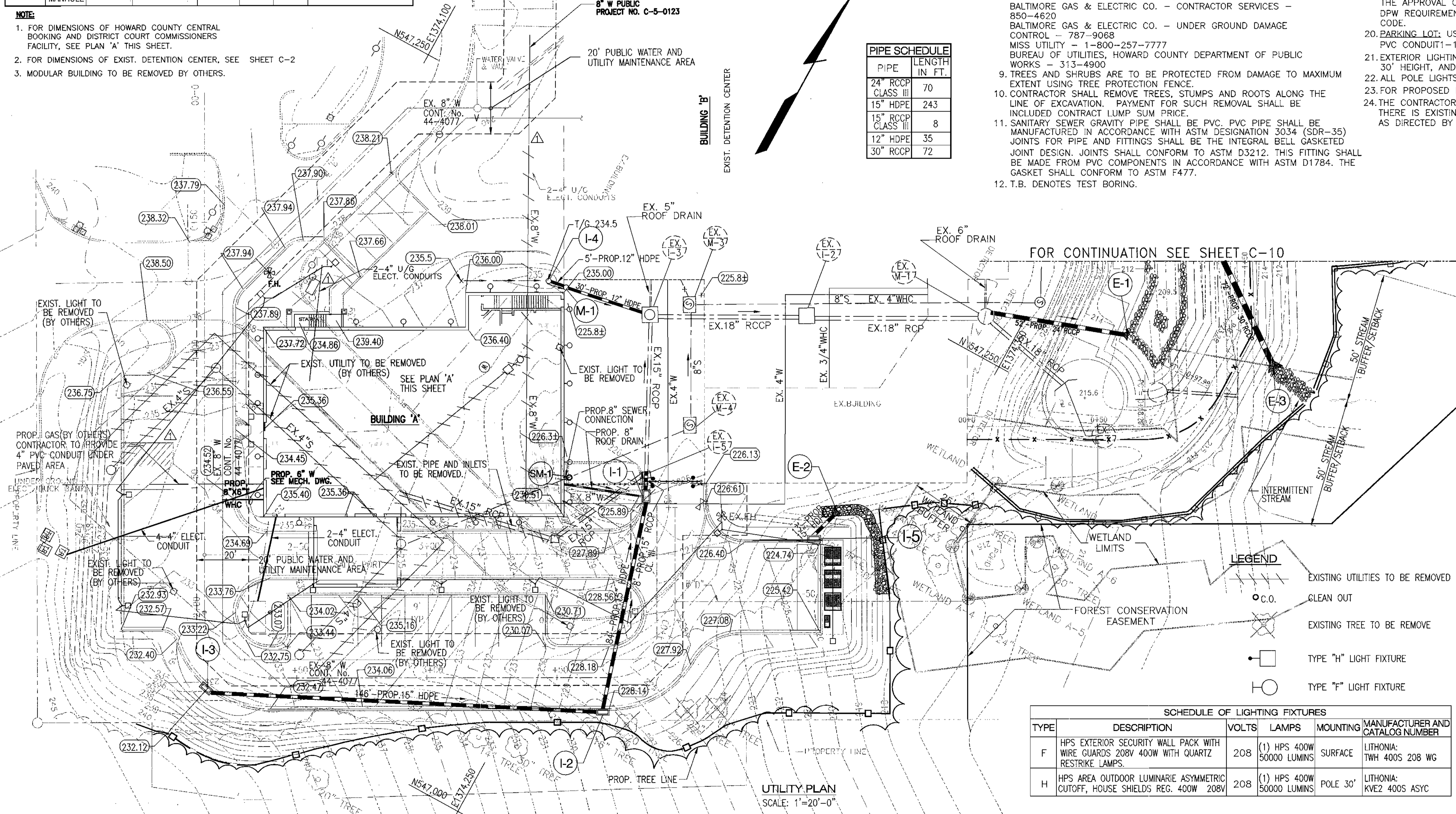
PLAN 'A'
NOT TO SCALE

PIPE SCHEDULE	
PIPE	LENGTH IN FT.
24" RCCP CLASS III	70
15" HDPE	243
15" RCCP CLASS III	8
12" HDPE	35
30" RCCP	72

GENERAL NOTES

- APPROXIMATE LOCATIONS OF EXISTING WATER LINES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
- ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.
- ALL PIPE ELEVATIONS ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (1991 AMENDMENTS) THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB SITE.
- EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION. ANY DAMAGE TO EXISTING FACILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
STATE HIGHWAY ADMINISTRATION - 531-5533
BALTIMORE GAS & ELECTRIC CO. - CONTRACTOR SERVICES - 850-4620
BALTIMORE GAS & ELECTRIC CO. - UNDER GROUND DAMAGE CONTROL - 787-9068
MISS UTILITY - 1-800-257-7777
BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - 313-4900
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT USING TREE PROTECTION FENCE.
- CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED CONTRACT LUMP SUM PRICE.
- SANITARY SEWER GRAVITY PIPE SHALL BE PVC. PVC PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM DESIGNATION 3034 (SDR-35) JOINTS FOR PIPE AND FITTINGS SHALL BE THE INTEGRAL BELL GASKETED JOINT DESIGN. JOINTS SHALL CONFORM TO ASTM D3212. THIS FITTING SHALL BE MADE FROM PVC COMPONENTS IN ACCORDANCE WITH ASTM D1784. THE GASKET SHALL CONFORM TO ASTM F477.
- T.B. DENOTES TEST BORING.

- WATER MAINS AND WATER HOUSE CONNECTION LINES MUST BE PLACED AS TO HAVE ONE (1) FOOT SEPARATION FROM THE SEWER MAIN OR SEWER HOUSE CONNECTION AS THEY PASS ABOUT IT.
- DUCTILE IRON WATER MAIN OR OFFSETS OF EXISTING MAINS SHALL CONFORM TO AWWA C150 AND C151. CLASS OF PIPE SHALL BE SPECIAL CLASS 52 FOR DIP IN ACCORDANCE WITH AWWA C150 TABLE 50.15. THE MINIMUM ACCEPTABLE PRESSURE RATING SHALL BE 250 PSI, IF COMPACT FITTINGS ARE USED THEN THE MINIMUM ACCEPTABLE PRESSURE RATING SHALL BE 350 PSI. INSTALLATION SHALL BE IN ACCORDANCE WITH AWWA C600. JOINTS: USE PUSH-ON OR MECHANICAL JOINTS CONFORMING WITH ALL APPLICABLE PROVISIONS OF AWWA C111. OR RESTRAINED JOINTS AS SHOWN WHERE FLANGED FITTINGS ARE REQUIRED FOR CONNECTIONS. VERIFY AND COORDINATE BOLT HOLE DRILLING WITH MANUFACTURER.
- TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3-1/2' COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, (410) 313-2450 AT LEAST FIVE WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BORING OPERATION IN COUNTY ROADS FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(a) OF THE HOWARD COUNTY CODE.
- PARKING LOT: USE MINIMUM WIRE #10AWG FOR LIGHT CIRCUITS. USE PVC CONDUIT 1-1/4" DIRECT BURIED 30" BELOW FINISHED GRADE.
- EXTERIOR LIGHTING POLES SHALL BE SQUARE STRAIGHT STEEL 6"x6", 7 GAUGE, 30' HEIGHT, AND SET 2' BEHIND THE CURB. SEE DETAIL SHEET C-25
- ALL POLE LIGHTS SHALL BE TYPE "H".
- FOR PROPOSED LANDSCAPING, SEE SHEET C-16.
- THE CONTRACTOR IS ALERTED THAT IN THE AREA OF THE STORMWATER MANAGEMENT THERE IS EXISTING SECURITY MONITORING EQUIPMENT THAT MUST BE RELOCATED AS DIRECTED BY THE ENGINEER.



FOR CONTINUATION SEE SHEET C-10

LEGEND

- EXISTING UTILITIES TO BE REMOVED
- C.O. CLEAN OUT
- EXISTING TREE TO BE REMOVE
- TYPE "H" LIGHT FIXTURE
- TYPE "F" LIGHT FIXTURE

SCHEDULE OF LIGHTING FIXTURES					
TYPE	DESCRIPTION	VOLTS	LAMPS	MOUNTING	MANUFACTURER AND CATALOG NUMBER
F	HPS EXTERIOR SECURITY WALL PACK WITH WIRE GUARDS 208V 400W WITH QUARTZ RESTRIKE LAMPS.	208	(1) HPS 400W 50000 LUMENS	SURFACE	LITHONIA: TWH 400S 208 WG
H	HPS AREA OUTDOOR LUMINARIE ASYMMETRIC CUTOFF, HOUSE SHIELDS REG. 400W 208V	208	(1) HPS 400W 50000 LUMENS	POLE 30'	LITHONIA: KVE2 400S ASYC

THE SUBJECT PROPERTY IS ZONED M-2 PER THE 10-18-93 COMPREHENSIVE ZONING PLAN

Approved: Department of Planning and Zoning
 Director: *Mark DeLonge* Date: 2/18/03
 Chief, Division of Land Development: *Chris Smith* Date: 2/18/03
 Chief, Development Engineering Division: *John D...* Date: 2/18/03

SUBDIVISION NAME		SECTION/AREA		PARCEL NO.	
HOWARD COUNTY DETENTION CENTER		N/A		660	
LIBER/FOLIO	BLOCK NO	ZONING	TAX MAP	GRID NO	HOWARD CO. CENSUS TR. ELEC. DIST.
2116/282	1009/368	9,10 AND 15	M-2	43	9
WATER CODE				SEWER CODE	
801				2221000	

PROPOSED IMPROVEMENTS
 BUILDING ADDITION, SEE SITE ANALYSIS CHART FOR APPLICABLE DPZ FILE REFERENCE DPZ FILE REF. FOR CURRENT PROJECT SDP-02-20

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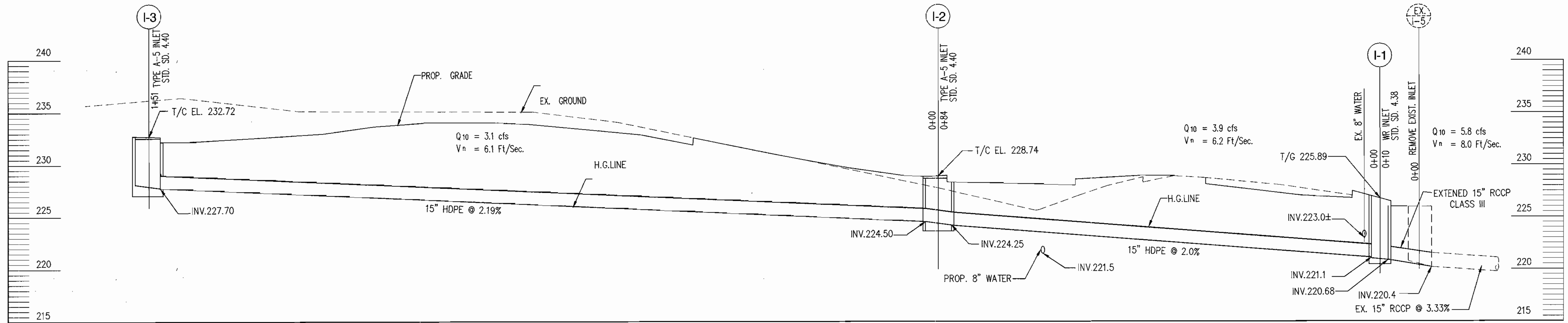


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 8950 Rt. 108 E., Suite 229 Columbia, MD. 21045
 Phone: 410-995-0090 Fax: 410-992-7038

REVISIONS		
NO.	DATE	DESCRIPTION
1	3/12/03	ADDENDUM NO. 1

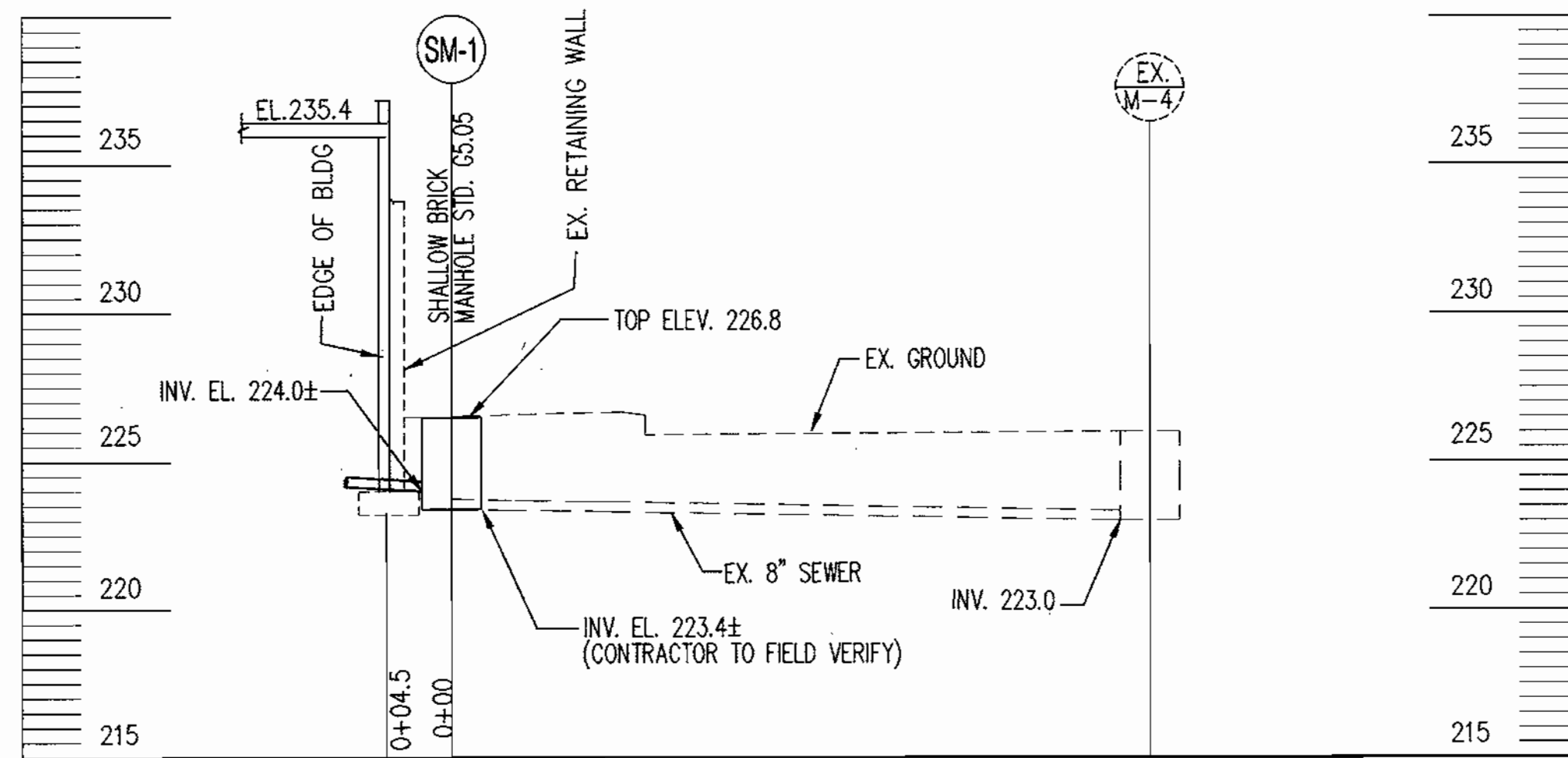
UTILITY PLAN
 HOWARD COUNTY CENTRAL BOOKING & DISTRICT COURT COMMISSIONERS FACILITY
 HOWARD COUNTY, MARYLAND
 DATE: FEBRUARY 21, 2003

CAPITAL PROJECT NO.
 P - 4916
C-7
 SET SHEET 7 OF 25



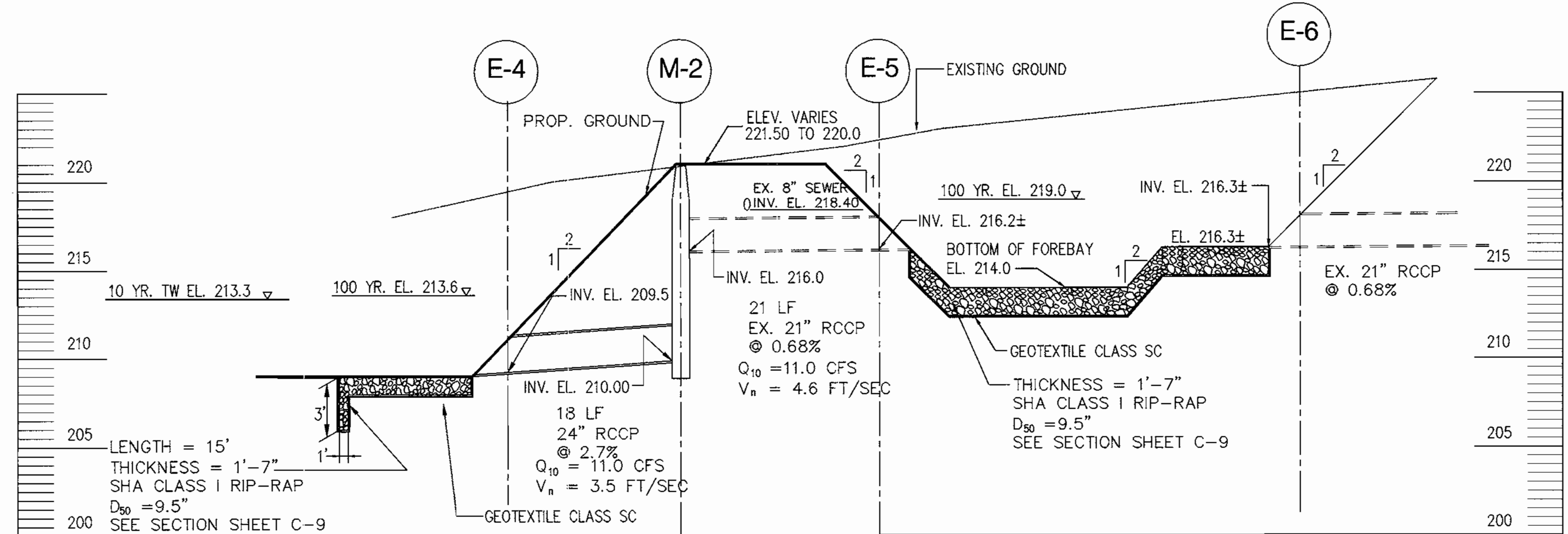
PROFILE - PROP. STORM DRAIN

SCALE: HORZ=1"=10'
VERT.=1"=5'



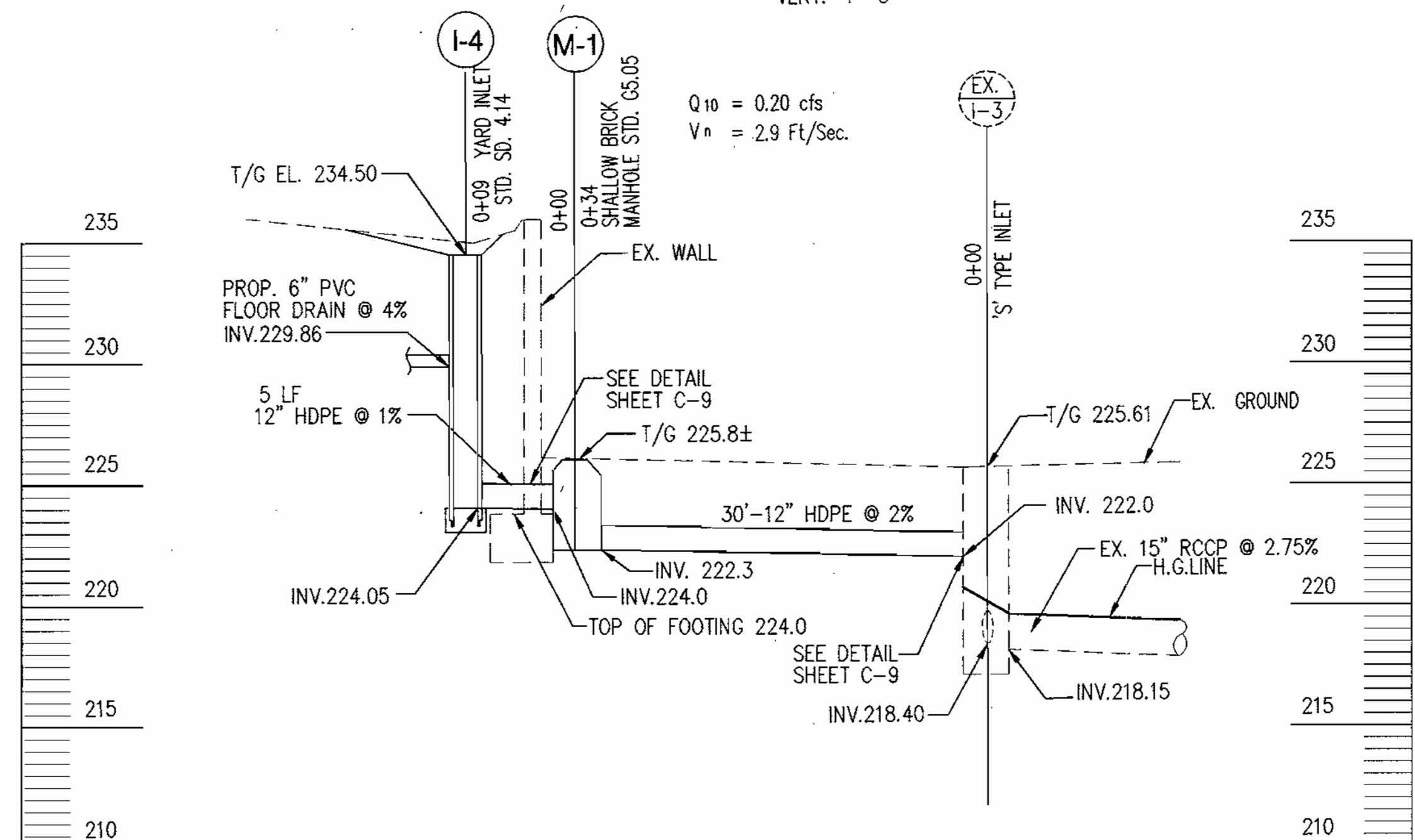
PROFILE - PROP. SANITARY SEWER

SCALE: HORZ=1"=10'
VERT.=1"=5'



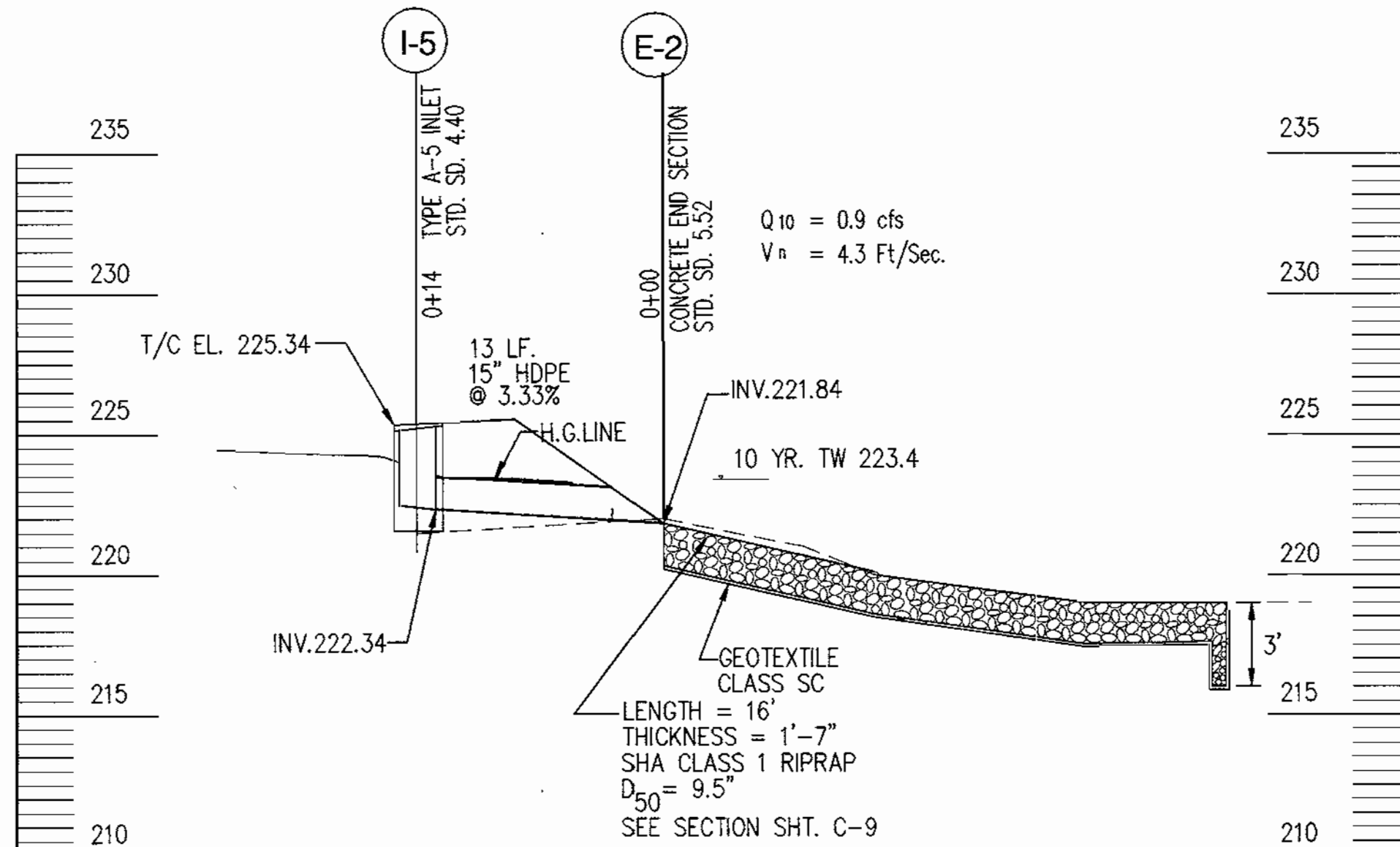
PROFILE PROPOSED STORM DRAIN

SCALE: 1" = 10' HORIZ.
1" = 5' VERT.



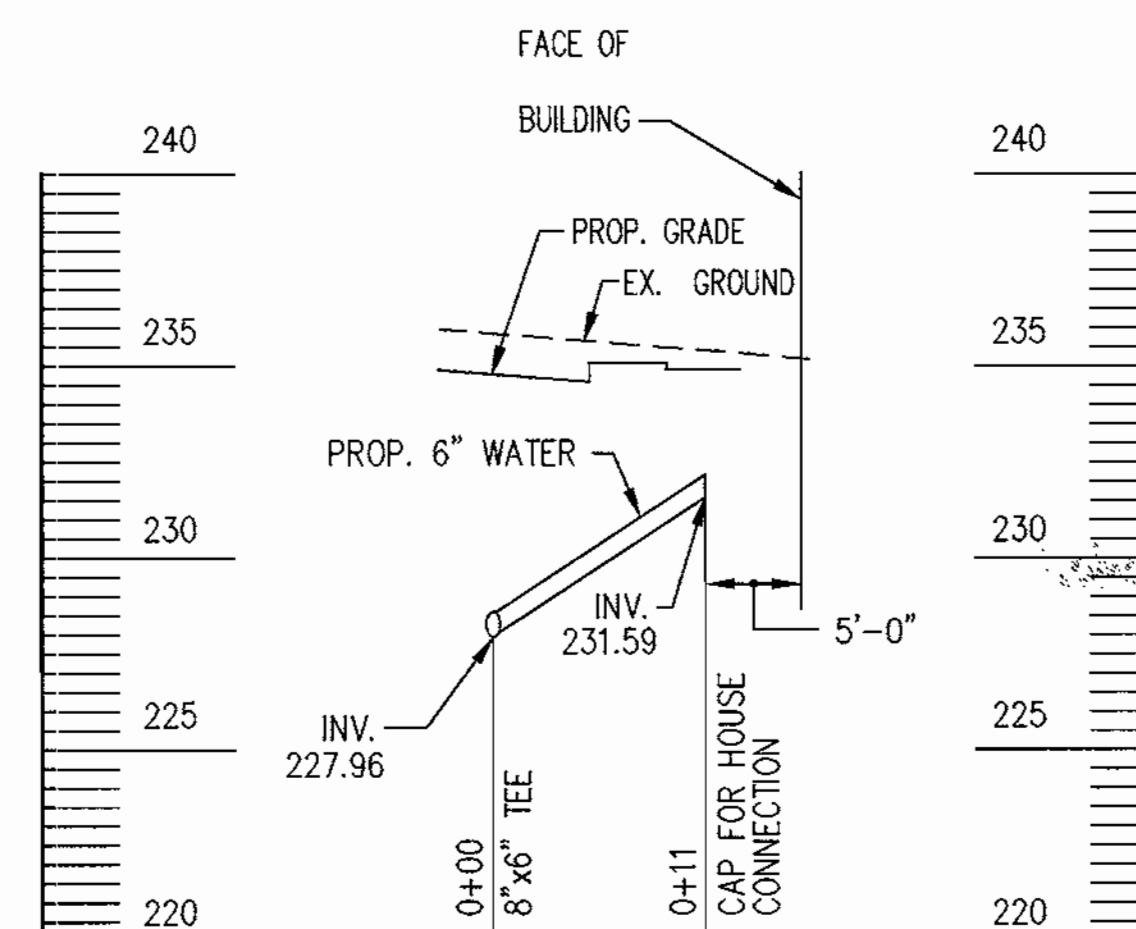
PROFILE - PROP. STORM DRAIN

SCALE: HORZ=1"=10'
VERT.=1"=5'



PROFILE - PROP. STORM DRAIN

SCALE: HORZ=1"=10'
VERT.=1"=5'



PROFILE - PROP. 6" WHC

SCALE: HORZ=1"=10'
VERT.=1"=5'

*SEE GENERAL NOTES 11 ON SHEET C-7 FOR MATERIAL TYPES

THE SUBJECT PROPERTY IS ZONED M-2 PER THE 10-18-93 COMPREHENSIVE ZONING PLAN

Approved: Department of Planning and Zoning
 Director: *Mark D. Wright* Date: 2/10/03
 Chief, Division of Land Development: *Windy Hamels* Date: 2/10/03
 Chief, Development Engineering Division: *Chris Williams* Date: 2/5/03

SUBDIVISION NAME HOWARD COUNTY DETENTION CENTER		SECTION/AREA N/A	PARCEL NO. 660
LIBER/FOLIO 2116/282 1009/368	BLOCK NO 9,10 AND 15	ZONING M-2	TAX MAP GRID NO. 43 9
WATER CODE B01		SEWER CODE 2221000	

PROPOSED IMPROVEMENTS
 BUILDING ADDITION, SEE SITE ANALYSIS CHART FOR APPLICABLE DPZ FILE
 REFERENCE DPZ FILE REF. FOR CURRENT PROJECT SDP-02-20

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8950 Route 108 Suite 218
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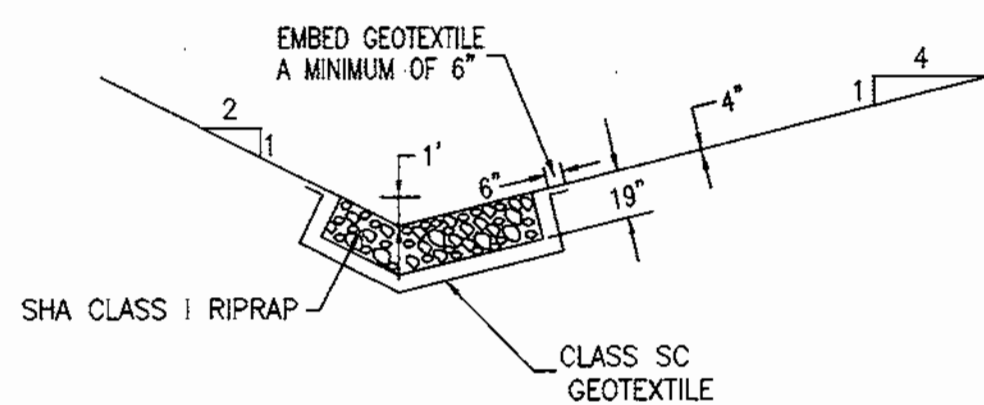
REVISIONS		
NO.	DATE	DESCRIPTION

UTILITY PROFILES I
 HOWARD COUNTY CENTRAL BOOKING &
 DISTRICT COURT COMMISSIONERS FACILITY
 HOWARD COUNTY, MARYLAND
 DATE: FEBRUARY 21, 2003

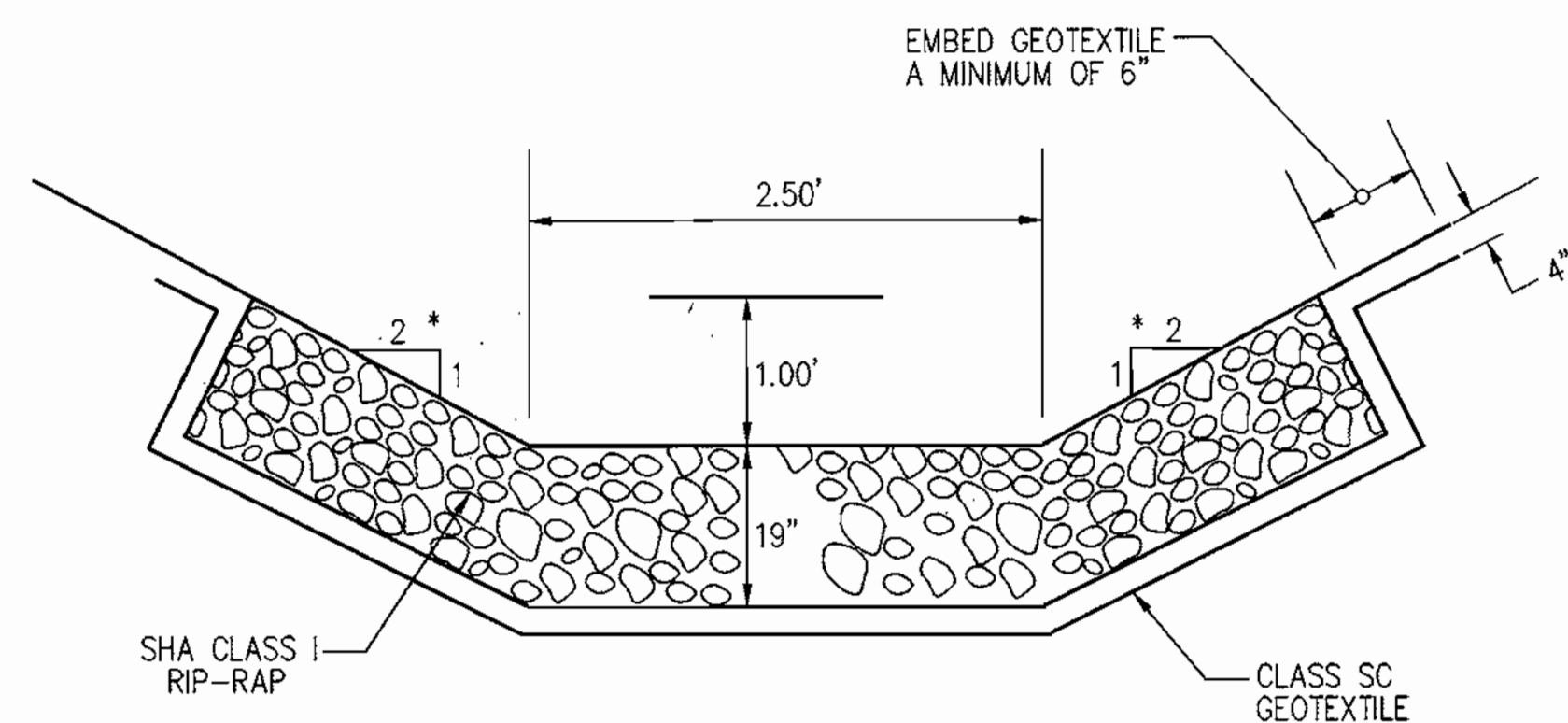
CAPITAL PROJECT NO.
 P - 4916
C-8
 SET SHEET 8 OF 25
 SDP-02-20

CONSTRUCTION SPECIFICATIONS

1. THE SUBGRADE FOR THE FILTER, RIPRAP SHALL BE PREPARED TO THE REQUIRED LINES AND GRADES. ANY FILL REQUIRED IN THE SUBGRADE SHALL BE COMPACTED TO A DENSITY OF APPROXIMATELY THAT OF THE SURROUNDING UNDISTURBED MATERIAL.
2. THE ROCK OR GRAVEL SHALL CONFORM TO THE SPECIFIED GRADING LIMITS WHEN INSTALLED RESPECTIVELY IN THE RIPRAP OR FILTER.
3. GEOTEXTILE SHALL BE PROTECTED FROM PUNCHING, CUTTING, OR TEARING. ANY DAMAGE OTHER THAN AN OCCASIONAL SMALL HOLE SHALL BE REPAIRED BY PLACING ANOTHER PIECE OF GEOTEXTILE OVER THE DAMAGED PART OR BY COMPLETELY REPLACING THE GEOTEXTILE. ALL OVERLAPS WHETHER FOR REPAIRS OR FOR JOINING TWO PIECES OF GEOTEXTILE SHALL BE A MINIMUM OF ONE FOOT.
4. STONE FOR THE RIPRAP OUTLETS MAYBE PLACED BY EQUIPMENT. THEY SHALL BE CONSTRUCTED TO THE FULL COURSE THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO AVOID DISPLACEMENT OF UNDERLYING MATERIALS. THE STONE FOR RIPRAP OUTLETS SHALL BE DELIVERED AND PLACED IN A MANNER THAT WILL ENSURE THAT IT IS REASONABLY HOMOGENOUS WITH THE SMALLER STONE AND SPALLS FILLING THE VOIDS BETWEEN THE LARGER STONES. RIP-RAP SHALL BE PLACED IN A MANNER TO PREVENT DAMAGE TO THE FILTER BLANKET OR GEOTEXTILE. HAND PLACEMENT WILL BE REQUIRED TO THE EXTENT NECESSARY TO PREVENT DAMAGE TO THE PERMANENT WORKS.
5. THE STONE SHALL BE PLACED SO THAT IT BLENDS IN WITH THE EXISTING GROUND.

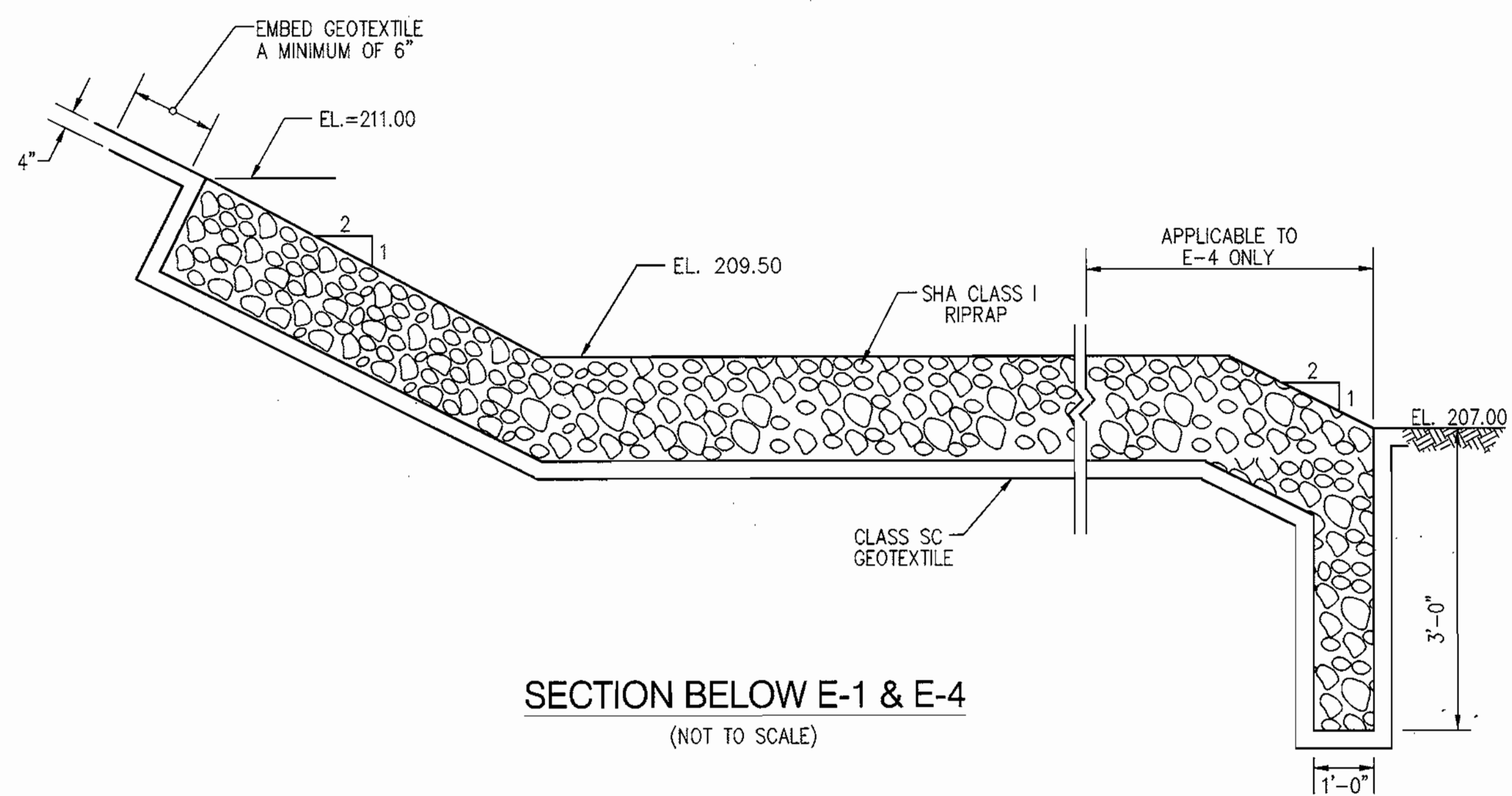


DITCH SECTION BELOW E-2
N.T.S

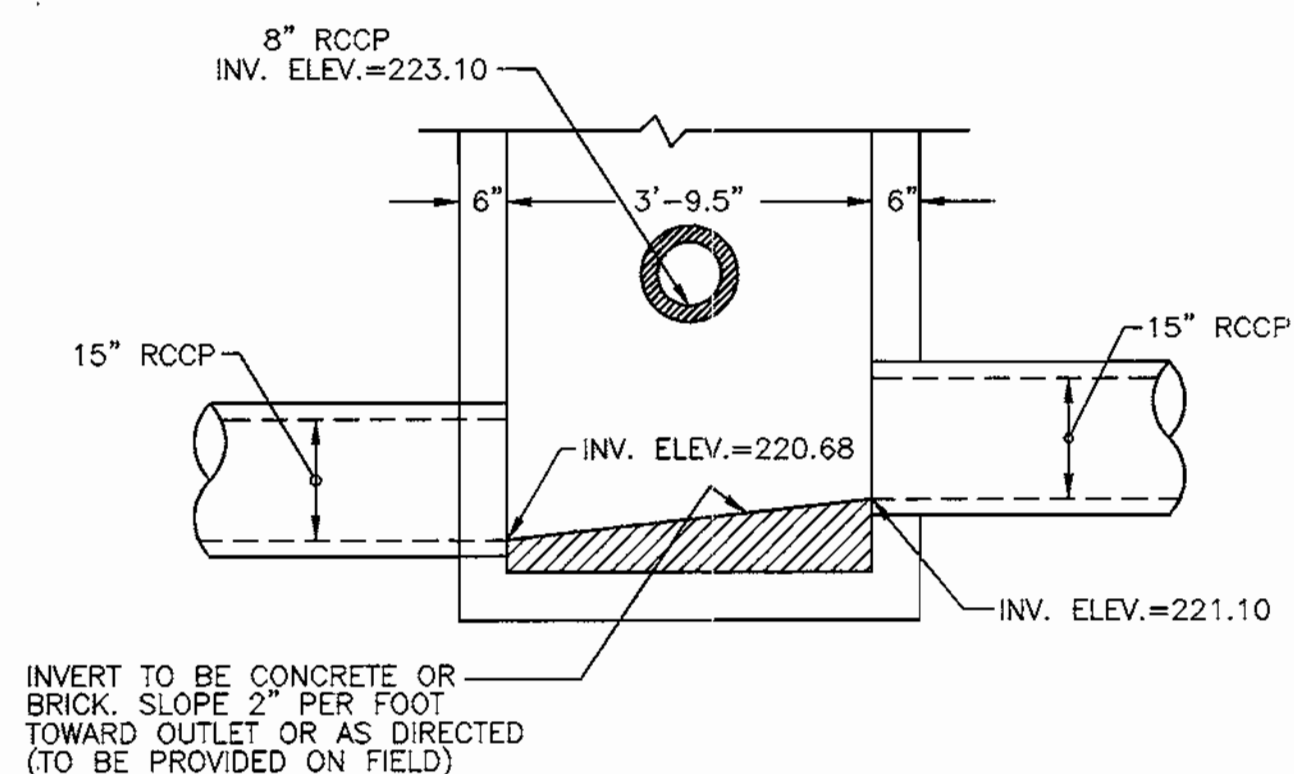


SECTION BELOW E-3
(NOT TO SCALE)

* VARY SIDESLOPE TO MEET EXISTING GROUND AT DOWNSTREAM END OF APRON.



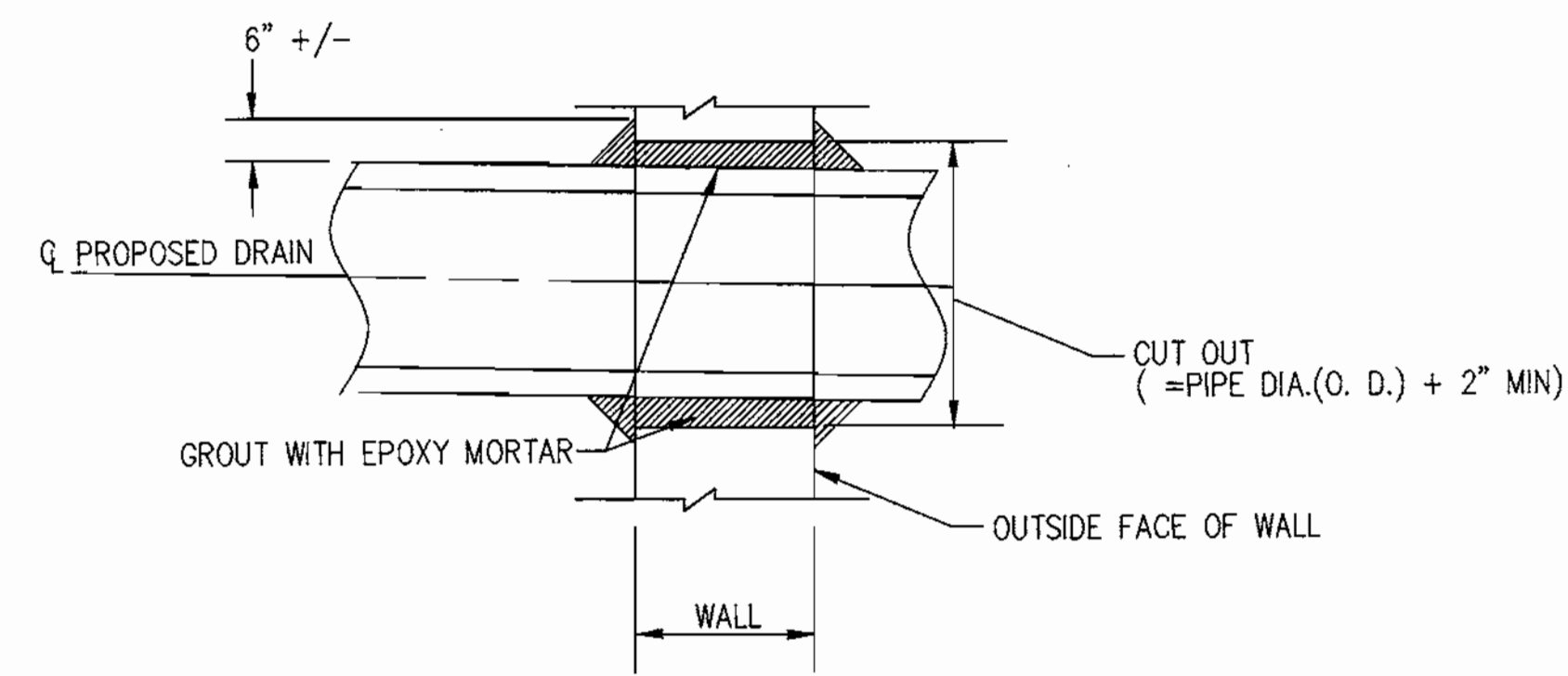
SECTION BELOW E-1 & E-4
(NOT TO SCALE)



WR-INLET MODIFICATION DETAILS

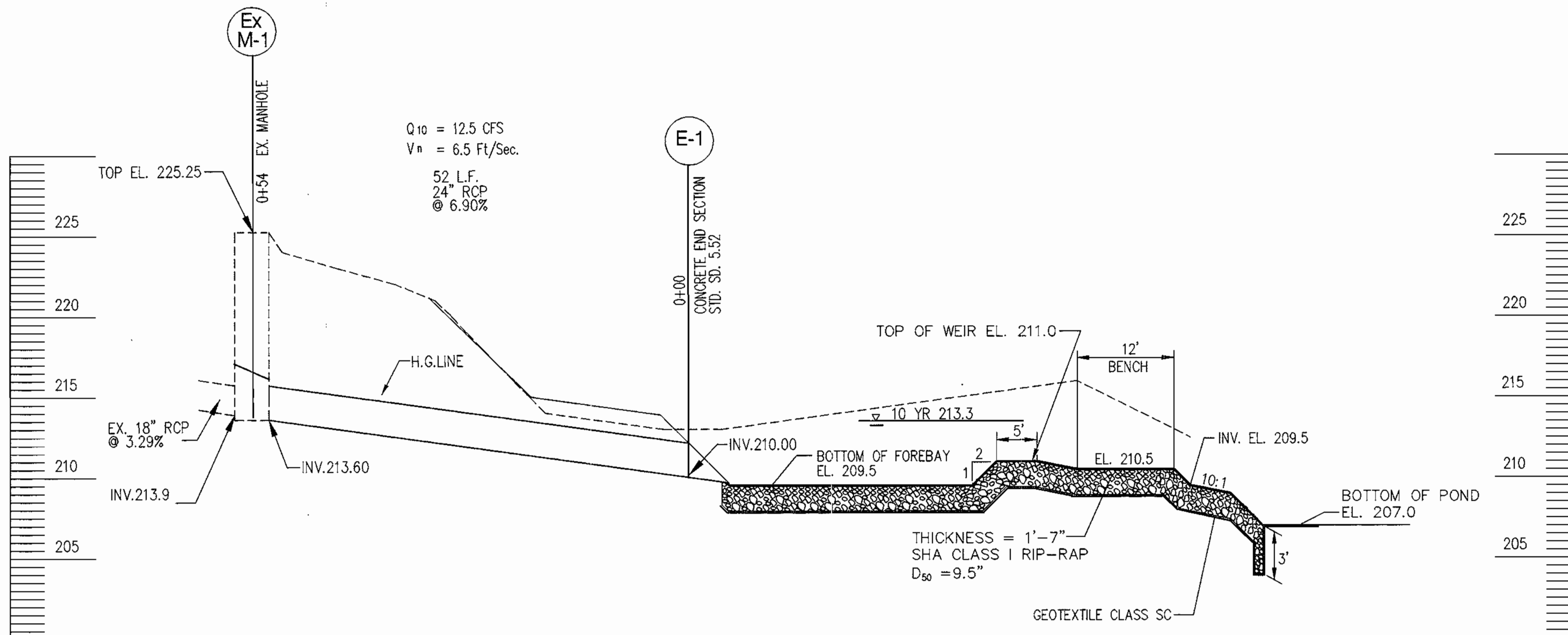
SCALE: 1/2" = 1'-0"

NOTE:
FOR ALL OTHER DETAILS, SEE HOWARD COUNTY STANDARD No. SD 4.38



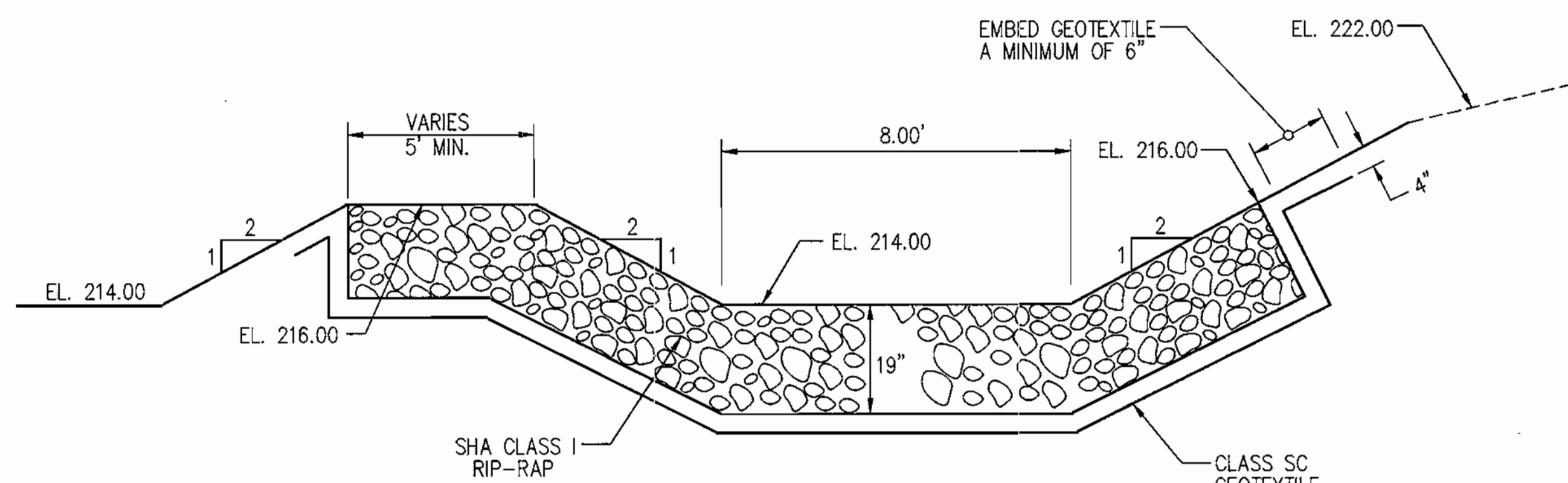
CUT IN THRU WALL

SCALE: 1/2" = 1'-0"



PROFILE - PROP. STORM DRAIN

SCALE: HORIZ. 1"=10'
VERT. 1"=5'



SECTION THRU OVERFLOW WEIR SEPARATING FOREBAY AND INFILTRATION BASIN

(NOT TO SCALE)

THE SUBJECT PROPERTY IS ZONED M-2 PER THE 10-18-93 COMPREHENSIVE ZONING PLAN

Approved: Department of Planning and Zoning			
Director	<i>[Signature]</i>	Date	2/10/03
Chief, Division of Land Development	<i>[Signature]</i>	Date	2/17/03
Chief, Development Engineering Division	<i>[Signature]</i>	Date	2/17/03
SUBDIVISION NAME	SECTION/AREA	PARCEL NO.	
HOWARD COUNTY	N/A	660	
LIBER/FOLIO	BLOCK NO	TAX MAP	GRID NO.
2116/282	9,10 AND 15	43	9
1009/368			
1584/1004			
WATER CODE	SEWER CODE		
B01	2221000		
PROPOSED IMPROVEMENTS			
BUILDING ADDITION, SEE SITE ANALYSIS CHART FOR APPLICABLE DPZ FILE REFERENCE DPZ FILE REF. FOR CURRENT PROJECT SDP-02-20			

H:\PROJECTS\CIVIL\0121901\PROGRESSIVE\C-9.DWG



8950 Route 108 Suite 218
Columbia Maryland 21045 (410)995-4067 Fax(410)992-1837



DCL CONSULTING ENGINEERING AND PLANNING
8950 Rt. 108 E., Suite 229 Columbia, MD. 21045
Phone: 410-995-0090 Fax: 410-992-7038

REVISIONS		
NO.	DATE	DESCRIPTION

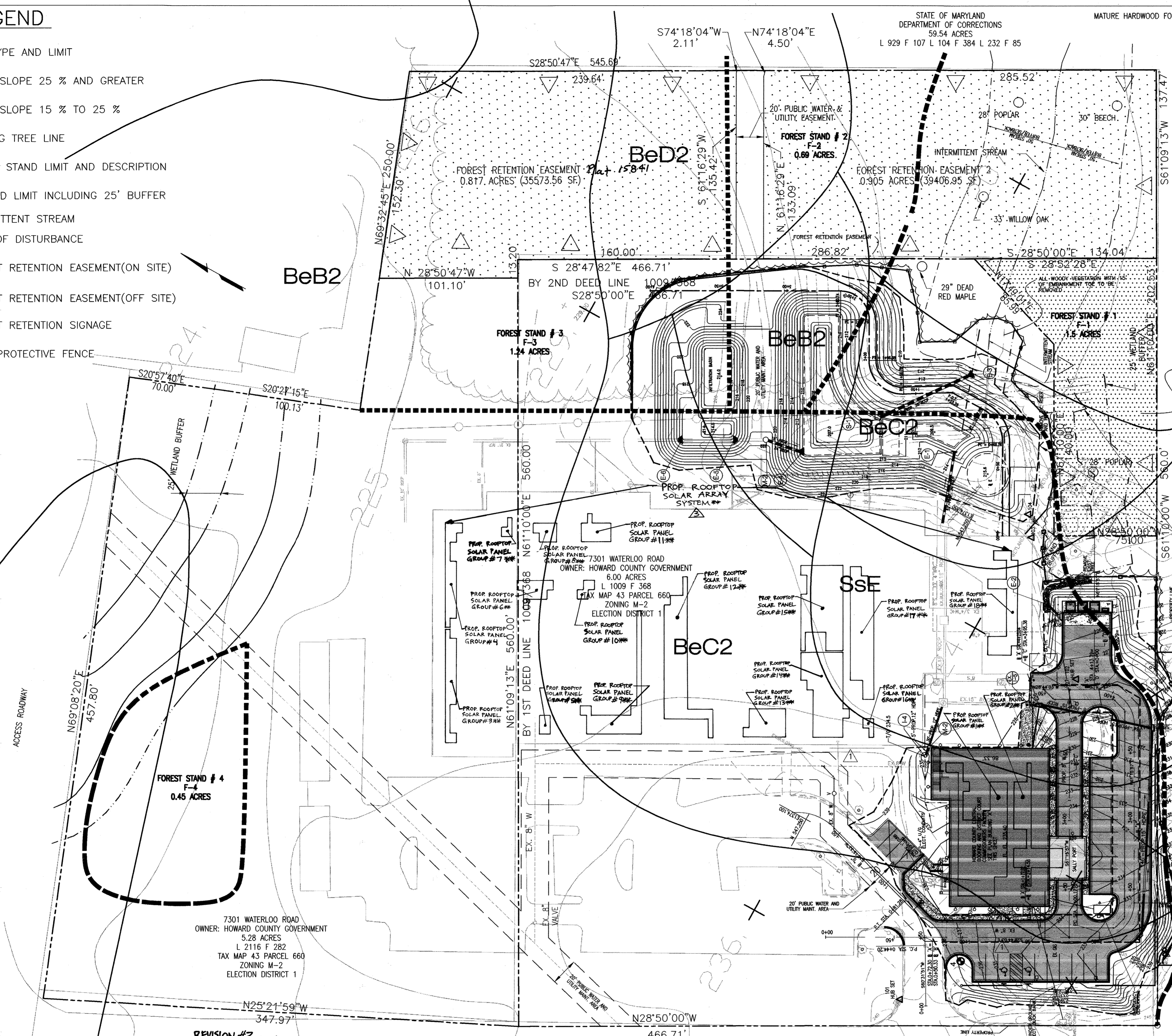
UTILITY PROFILES II
HOWARD COUNTY CENTRAL BOOKING & DISTRICT COURT COMMISSIONERS FACILITY
HOWARD COUNTY, MARYLAND
DATE: FEBRUARY 21, 2003

CAPITAL PROJECT NO.
P - 4916
C-9
SET SHEET 9 OF 25

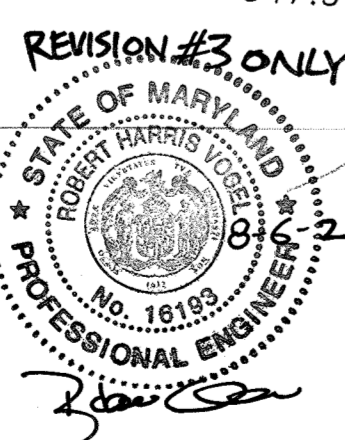
PLAN LEGEND

- BeB2 SOIL TYPE AND LIMIT
- STEEP SLOPE 25 % AND GREATER
- STEEP SLOPE 15 % TO 25 %
- EXISTING TREE LINE
- FOREST STAND LIMIT AND DESCRIPTION
- WETLAND LIMIT INCLUDING 25' BUFFER
- INTERMITTENT STREAM
- LIMIT OF DISTURBANCE
- FOREST RETENTION EASEMENT(ON SITE)
- FOREST RETENTION EASEMENT(OFF SITE)
- FOREST RETENTION SIGNAGE
- TREE PROTECTIVE FENCE

STATE OF MARYLAND
DEPARTMENT OF CORRECTIONS
59.54 ACRES
L 104 F 384
L 232 F 85
L 929 F 107

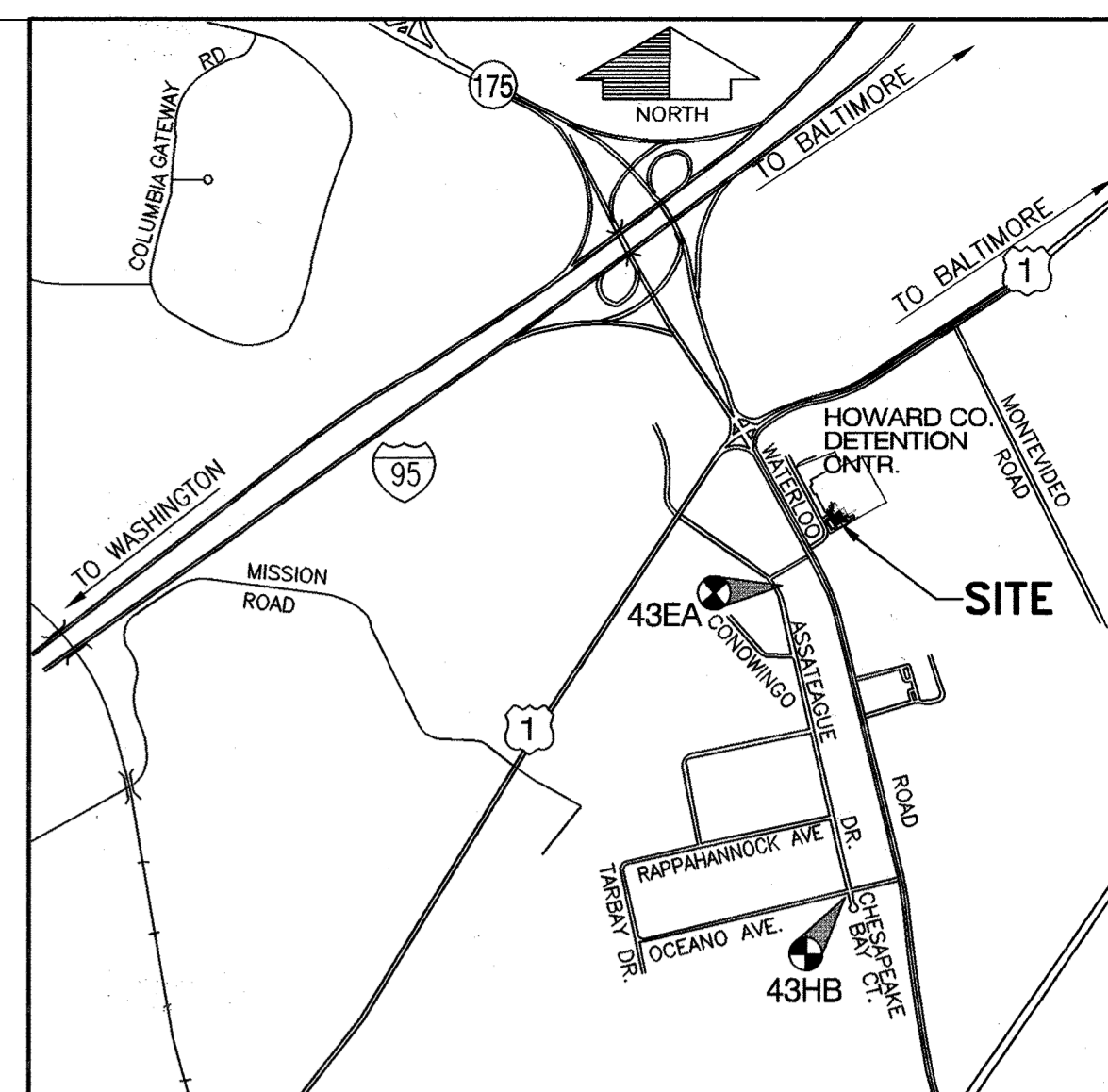


7301 WATERLOO ROAD
OWNER: HOWARD COUNTY GOVERNMENT
5.28 ACRES
L 2116 F 282
TAX MAP 43 PARCEL 660
ZONING M-2
ELECTION DISTRICT 1



SEE SHEET C-2 FOR ROOFTOP SOLAR NOTES

SITE PLAN
SCALE 1"=40'



VICINITY MAP
SCALE: 1"=2000'

FOREST RETENTION EASEMENT Plat 15840
0.39 ACRES (17036.25 SF)

- SOIL LEGEND
- | SYMBOL | NAME |
|--------|------------------------------------------------------------------|
| BeA | Beltsville silt loam, 0 to 1 percent slopes |
| BeB2 | Beltsville silt loam, 1 to 5 percent slopes, moderately eroded |
| BeC2 | Beltsville silt loam, 5 to 10 percent slopes, moderately eroded |
| BeD2 | Beltsville silt loam, 10 to 15 percent slopes, moderately eroded |
| L1 | Leonardtown silt loam |
| SsE | Sassafras soils, 15 to 40 percent slopes |

THE SUBJECT PROPERTY IS ZONED M-2 PER THE 10-18-93 COMPREHENSIVE ZONING PLAN

Approved: Department of Planning and Zoning	
<i>Janet D. Taylor</i> Director	3/10/03 Date
<i>Charles Hamilton</i> Chief, Division of Land Development	3/17/03 Date
<i>Richard Subbitt</i> Chief, Development Engineering Division	3/12/03 Date

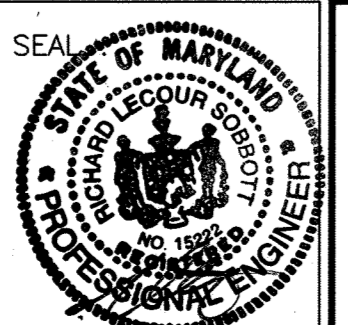
SUBDIVISION NAME	SECTION/AREA	PARCEL NO.				
HOWARD COUNTY DETENTION CENTER	N/A	660				
LIBER/FOLIO	BLOCK NO	ZONING	TAX MAP	GRID NO.	HOWARD CO. ELEC. DIST.	CENSUS TR.
2116/282	9, 10 AND 15	M-2	43	9	NO-1	6012.02
1009/368						
WATER CODE	B01				SEWER CODE	2221000

QUALIFIED PROFESSIONAL PER THE MARYLAND FOREST CONSERVATION ACT
Richard Subbitt 3/12/03
DATE

PROPOSED IMPROVEMENTS
BUILDING ADDITION, SEE SITE ANALYSIS CHART FOR APPLICABLE DPZ FILE REFERENCE DPZ FILE REF. FOR CURRENT PROJECT SDP-02-20

H:\PROJECTS\CIVIL\0121901\PROGRESSIVE\C-22.DWG USED LEVEL MANAGER

lati Architects Engineers and Construction Consultants
8950 Route 108 Suite 218
Columbia Maryland 21045 (410)995-4067 Fax(410)992-1837



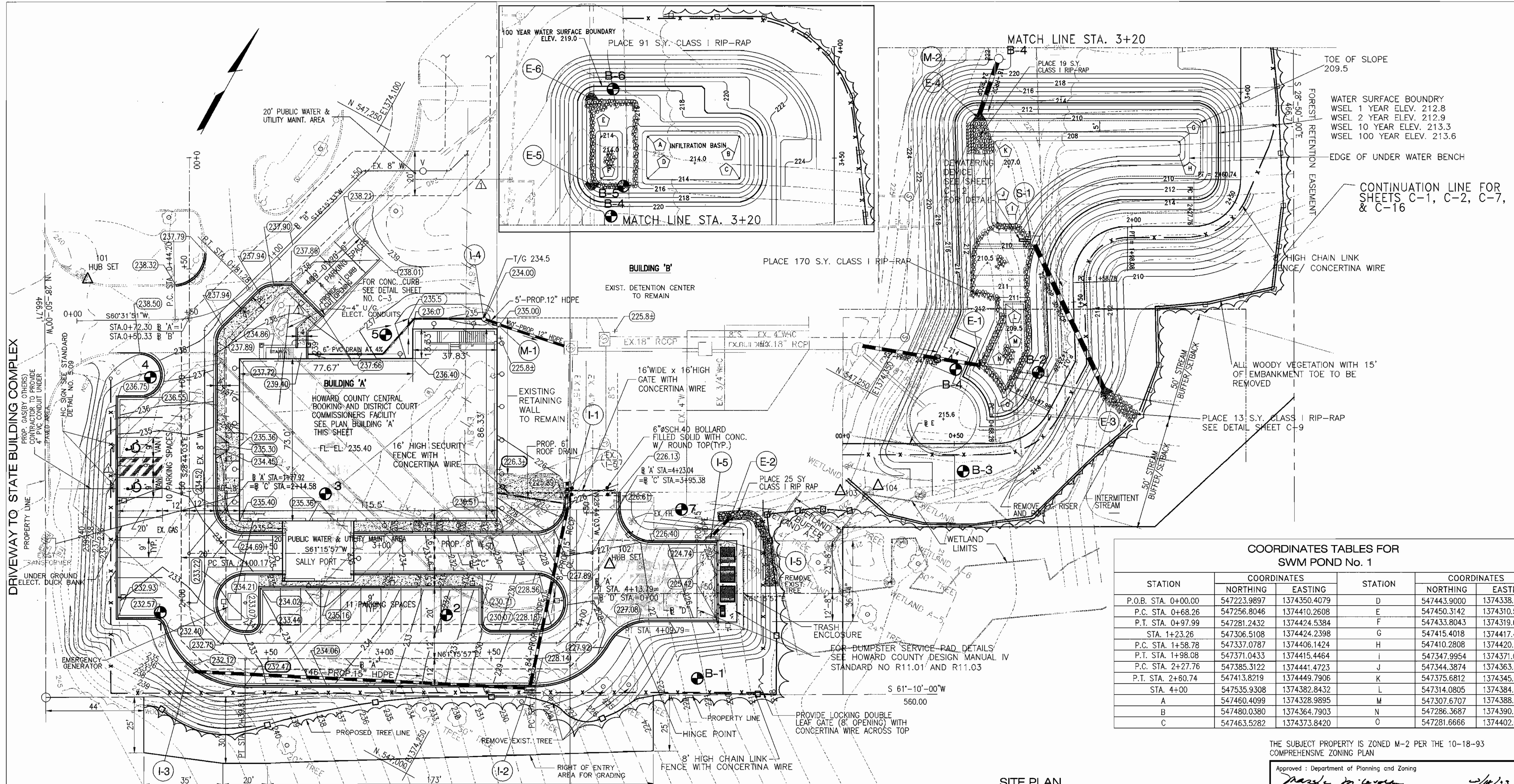
DCI CONSULTING ENGINEERING AND PLANNING
8950 Rt. 108 E., Suite 229 Columbia, MD. 21045
Phone: 410-995-0090 Fax: 410-992-7038
DANIEL CONSULTANTS, INC.

REVISIONS

NO.	DATE	DESCRIPTION
1	3/12/03	ADDENDUM NO 1
2	6-15-21	REVISE TO ADD ROOFTOP SOLAR PANELS

FOREST CONSERVATION PLAN
HOWARD COUNTY CENTRAL BOOKING & DISTRICT COURT COMMISSIONERS FACILITY
HOWARD COUNTY, MARYLAND
DATE: FEBRUARY 21, 2003

CAPITAL PROJECT NO.
 P - 4916
C-23
SET SHEET 23 OF 25
SDP-02-20



TOE OF SLOPE
209.5

WATER SURFACE BOUNDARY
WSEL 1 YEAR ELEV. 212.8
WSEL 2 YEAR ELEV. 212.9
WSEL 10 YEAR ELEV. 213.3
WSEL 100 YEAR ELEV. 213.6

EDGE OF UNDER WATER BENCH

CONTINUATION LINE FOR
SHEETS C-1, C-2, C-7,
& C-16

COORDINATES TABLES FOR
SWM POND No. 1

STATION	COORDINATES		STATION	COORDINATES	
	NORTHING	EASTING		NORTHING	EASTING
P.O.B. STA. 0+00.00	547223.9897	1374350.4079	D	547443.9000	1374338.0412
P.C. STA. 0+68.26	547256.8046	1374410.2608	E	547450.3142	1374310.5754
P.T. STA. 0+97.99	547281.2432	1374424.5384	F	547433.8043	1374319.6271
STA. 1+23.26	547306.5108	1374424.2398	G	547415.4018	1374417.4647
P.C. STA. 1+58.78	547337.0787	1374406.1424	H	547410.2808	1374420.2723
P.T. STA. 1+98.08	547371.0433	1374415.4464	I	547347.9954	1374371.0373
P.C. STA. 2+27.76	547385.3122	1374441.4723	J	547344.3874	1374363.5382
P.T. STA. 2+60.74	547413.8219	1374449.7906	K	547375.6812	1374345.0653
STA. 4+00	547535.9308	1374382.8432	L	547314.0805	1374384.3136
A	547460.4099	1374328.9895	M	547307.6707	1374388.1085
B	547480.0380	1374364.7903	N	547286.3687	1374390.2087
C	547463.5282	1374373.8420	O	547281.6666	1374402.0366

THE SUBJECT PROPERTY IS ZONED M-2 PER THE 10-18-93
COMPREHENSIVE ZONING PLAN

SITE PLAN
SCALE 1"=20'

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.

Jin Myra Lee 3/13/03
U.S.D.A. Natural Resources Conservation Service Date

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.

Jeffrey Sel... 3/13/03
Howard Soil Conservation District Date

DEVELOPER'S/LANDOWNER'S CERTIFICATION
I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a Registered Professional Engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.

Michael A. Geronziello 3/12/03
Signature Date
Michael A. Geronziello MD. License No.

"AS-BUILT" CERTIFICATION
I hereby certify that the facility shown on this plan was constructed as shown on the "As-Built" plans and meets the approved plans and specifications. I also certify that construction was inspected in accordance with the requirements of Howard County.

Richard Sobott 3/12/03
Signature Date
Richard Sobott MD. License No.

CONSULTANT'S HAZARD CLASS CERTIFICATION
I certify that this pond meets all the requirements for hazard Class A. (Requirements as stated in the soil conservation service Maryland standards and specifications for pond, code 378, November 1992) All necessary investigations and computations have been performed to verify this finding.

Richard Sobott 3/12/03
Signature Date
Richard Sobott MD. License No.

ENGINEER'S CERTIFICATION
I certify that these plans for pond construction, erosion and sediment control represent a practical and workable plans based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he/she must engage a Registered Professional Engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.

Richard Sobott 3/12/03
Signature Date
Richard Sobott MD. License No.

H:\PROJECTS\CIVIL\0121901\PROGRESSIVE\NEW-C-10.DWG

cati Architects Engineers
and Construction Consultants
8950 Route 108 Suite 218
Columbia, Maryland 21045 (410)995-4067 Fax (410)992-1837

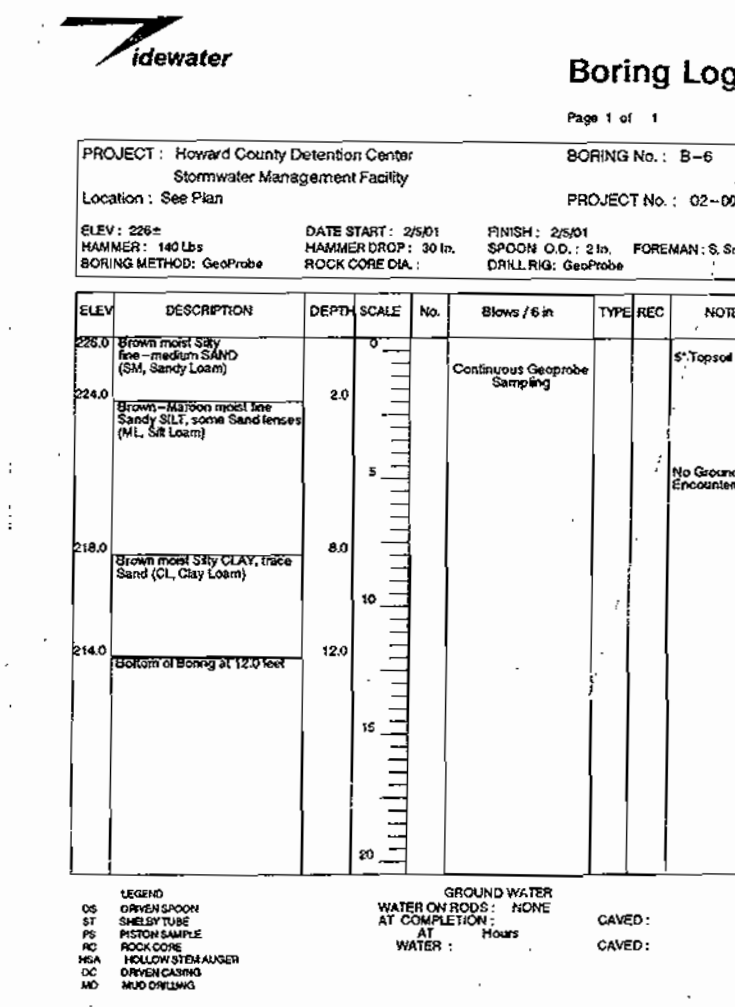
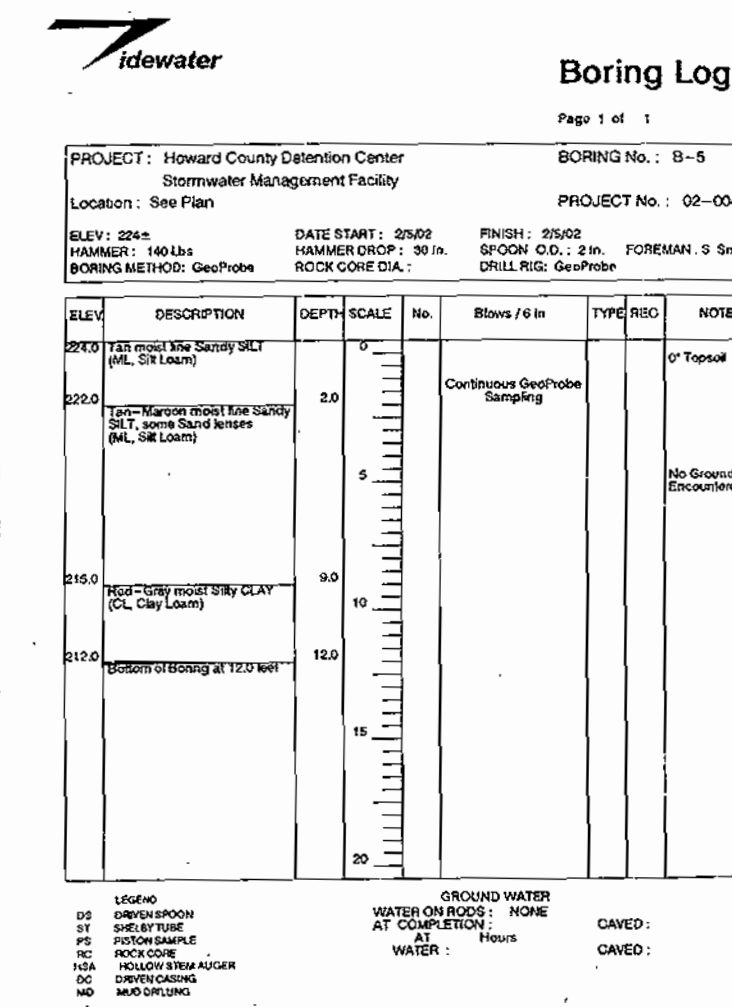
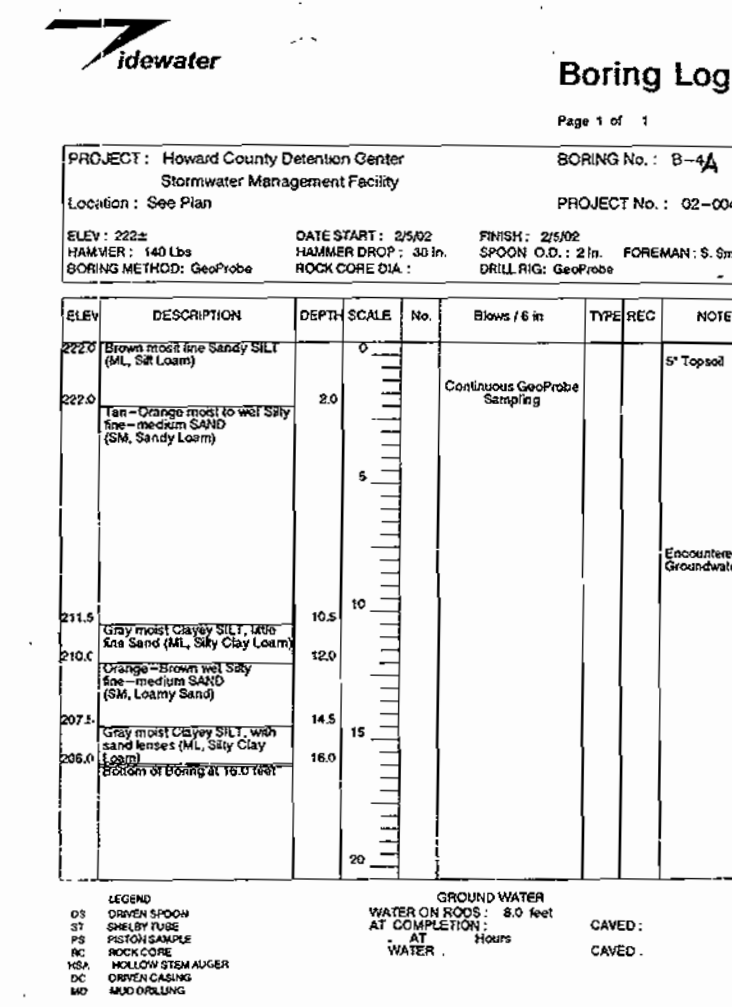
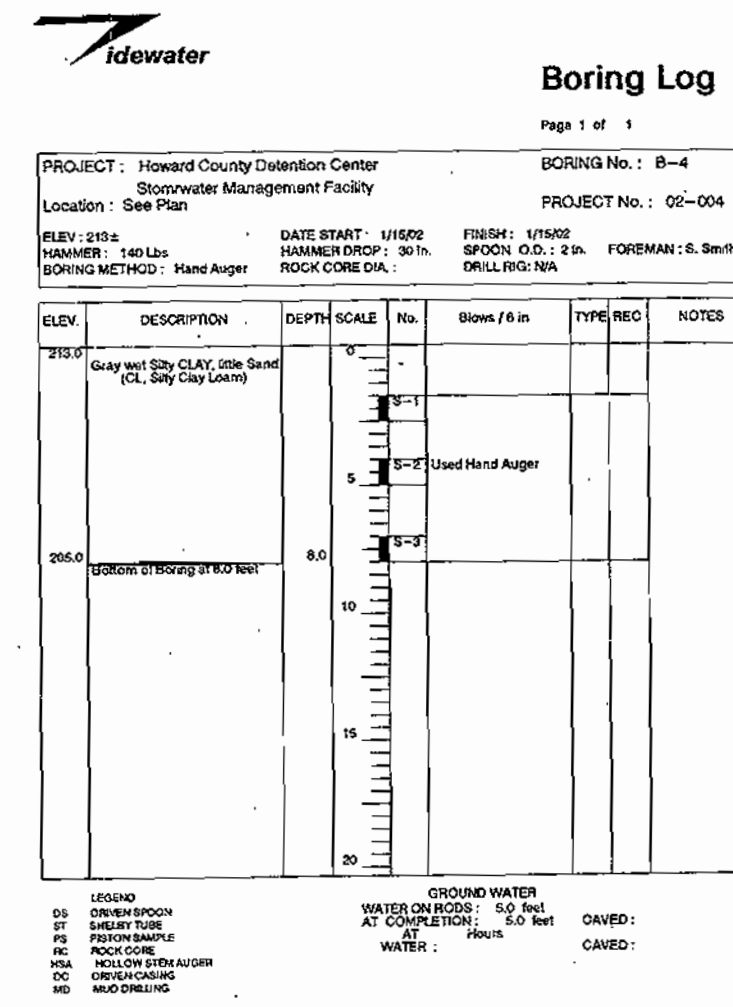
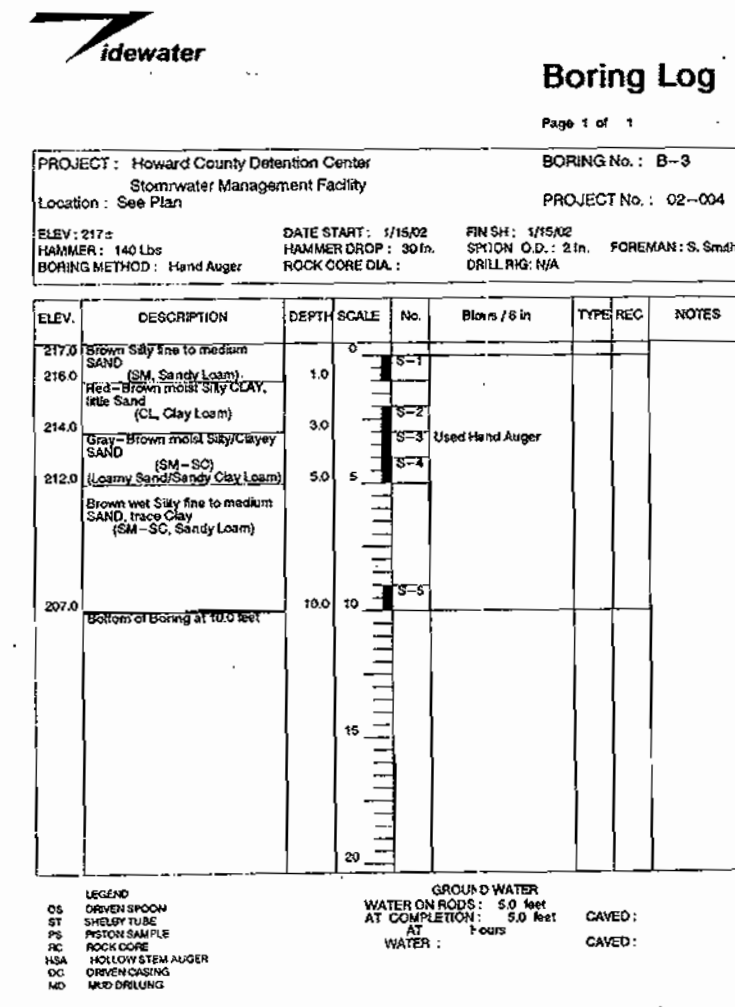
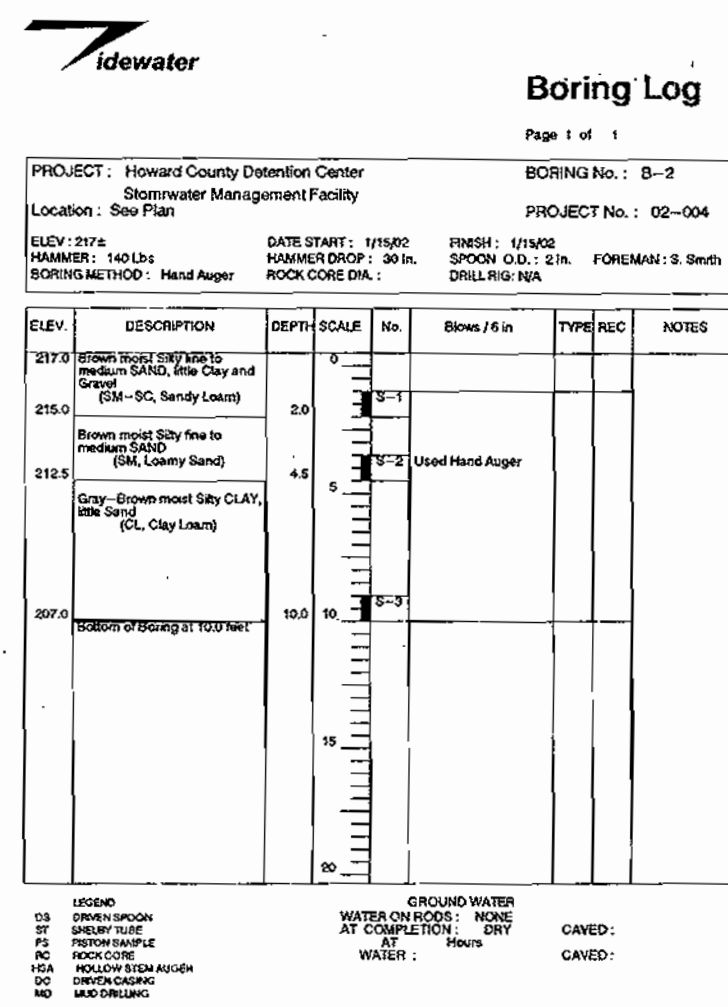
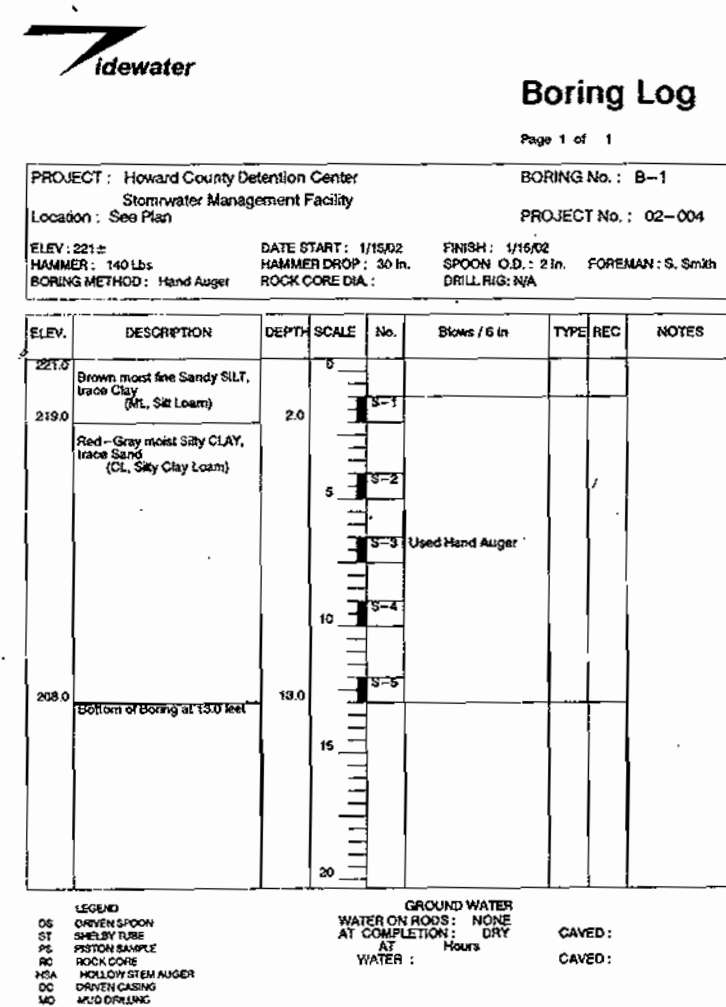


DCI CONSULTING ENGINEERING AND PLANNING
8950 Rt. 108 E., Suite 229 Columbia, MD. 21045
Phone: 410-995-0090 Fax: 410-992-7038

REVISIONS

NO.	DATE	DESCRIPTION
A	3/12/03	ADDENDUM NO. 1

STORMWATER MANAGEMENT PLAN
HOWARD COUNTY CENTRAL BOOKING &
DISTRICT COURT COMMISSIONERS FACILITY
HOWARD COUNTY, MARYLAND
DATE: FEBRUARY 21, 2003
CAPITAL PROJECT NO. P-4916
C-10
SET SHEET 10 OF 25
SDP-02-20



BORINGS

CONCLUSION FROM APRIL 29, 2002 GEOTECHNICAL REPORT BY TIDEWATER INC.

1. THE CLAYEY SOILS ENCOUNTERED AT THE BOTTOM OF THE POND (BORING B-4) ARE NOT SUITABLE FOR INFILTRATION. IT IS THEREFORE NOT FEASIBLE TO USE INFILTRATION PRACTICES TO PROVIDE FOR THE WATER QUALITY VOLUME.
2. THE RECHARGE VOLUME AND WATER QUALITY VOLUME SHOULD BE PROVIDED FOR USING SEPARATE FACILITIES BECAUSE OF THE LOW INFILTRATION RATES.
3. THE HIGH WATER TABLE AT BORING B-4 WOULD INDICATE A WET POND IS FEASIBLE AT THAT LOCATION TO PROVIDE THE WATER QUALITY VOLUME.
4. THE SOILS BELOW THE BOTTOM OF THE PROPOSED POND CONSIST OF VERY FIRM SANDY SILT (BORING B-5) AND HARD SILTY CLAY (BORING B-6). THE SOILS HAVE USDA CLASSIFICATIONS OF SILT LOAM AND CLAY LOAM WHICH ARE UNSUITABLE FOR INFILTRATION. THE PUBLISHED INFILTRATION RATES FOR THESE SOILS ARE 0.27 AND 0.09 INCHES PER HOUR RESPECTIVELY.

STORMWATER MANAGEMENT SUMMARY

CHANNEL PROTECTION VOLUME

DRAINAGE AREA	5.5 Ac
INFLOW CENTROID AT TME	13.5 Hr
OUTFLOW CENTROID AT TIME	33.0 Hr
TIME LAG	20.0 Hr (Greater than 18Hr.)
BMP	EXTENDED DETENTION POCKET POND (1 1/2" DIA. ORIFICE INV. 209.5)

OVERBANK FLOOD PROTECTION VOLUME

PRE-CONST. DRAINAGE AREA	9.5 Ac.
PRE-CONST. RCN	69
PRE-CONST. Tc	33 Hr
PRE-CONST. DISCHARGE (1 yr.)	3.7 cfs

POST-CONST.	
SUB-AREA 1 DRAINAGE AREA	4.13 Ac.
SUB-AREA 1 RCN	67
SUB-AREA 1 Tc	.27 Hr
SUB-AREA 2 DRAINAGE AREA	3.12 Ac.
SUB-AREA 2 RCN	90
SUB-AREA 2 Tc	.21 Hr
SUB-AREA 3 DRAINAGE AREA	2.42 Ac.
SUB-AREA 3 RCN	91
SUB-AREA 3 Tc	.245 Hr

POST-CONST. DISCHARGE (1 yr.) 3.1 cfs ***
 BMP EXTENDED DETENTION POCKET POND

*** AS PER COMMENTS FROM PHIL THOMPSON DATED 8/26/02 IT IS ONLY NECESSARY TO MANAGE THE 1 YEAR EVENT.

EXTREME FLOOD PROTECTION VOLUME

DRAINAGE AREA	5.5 Ac
BMP	EXTENDED DETENTION POCKET POND (PASS 100 Yr. EVENT WITH 2 FT. OF FREEBOARD)

WATER QUALITY VOLUME

SITE AREA:	4.84 Ac.
PERCENT IMPERVIOUS	72 %
WQV	10453 cfs ***
BMP	EXTENDED DETENTION POCKET POND

*** DEDUCT REV FROM WQV SINCE INFILTRATION BASIN PROVIDED UPSTREAM. SPLIT THIS VOLUME BETWEEN WET AND DRY VOLUME AS PER COMMENTS FROM PHIL THOMPSON 8/26/02 THE DRY VOLUME DRAINS OUT IN 36 HOURS (>24 HOURS)

RECHARGE VOLUME

SITE AREA:	4.84 Ac.
PERCENT IMPERVIOUS	72 %
SOIL WEIGHTED RECHARGE FACTOR	0.15
REV	1845 cfs
BMP	INFILTRATION BASIN

CONSTRUCTION CHECKLIST SWM POND NO. 1

POND ITEM	DESIGN ELEVATION (SETTLED)	CONSTRUCTION ELEVATION	DESIGN SLOPE	CONSTRUCTION SLOPE	DESIGN LENGTH	CONSTRUCTION LENGTH	DESIGN WIDTH	CONSTRUCTION WIDTH	DESIGN DIAMETER	CONSTRUCTION DIAMETER
EMBANKMENT	215.6		3:1/3:1		300		12'-0"		30'	
<p>GEOTECHNICAL CERTIFICATION RECEIVED FOR EMBANKMENT CUTOFF TRENCH, IMPERVIOUS CORE, WEIR WALL, BARREL, ETC. CONSTRUCTION AND MATERIALS? YES NO</p> <p>POND GRADED TO SUBSTANTIALLY MATCH DESIGN GRADES AND VOLUME YES NO</p> <p>TRASHRACKS AND ORIFICE ELBOWS IN PLACE? YES NO</p>										

SWM POND NO. 1 DESIGN SUMMARY				
DESIGN STORM	FACILITY INFLOW (CFS)	FACILITY DISCHARGE (CFS)	WATER SURFACE ELEVATION (FT)	STORAGE VOLUME C. F.
				REQUIRED PROVIDED
CRV	11.0	2.6	212.8	---
2 YEAR	14.5	212.9	---	17765
10 YEAR	25.6	24.0	---	---
100 YEAR	37.6	34.3	---	---
CLOGGED	37.6	34.3	213.6	---
WQV			209.5 WET	5227 WET 5291 DRY
REV			216.0	1845 5227 DRY 5330 DRY 2460

PROJECT INFORMATION
 PROJECT NAME: HOWARD COUNTY BOOKING COURT FACILITY
 SCD FILE NO: SDP-02-20
 POND NO: _____

OWNER INFORMATION
 NAME: HOWARD COUNTY GOVERNMENT
 ADDRESS: 3430 COURTHOUSE DRIVE
 CITY: ELLICOTT CITY
 STATE: MD. ZIP: 21043

(TO NEAREST 1000 FT)
 EAST 1374350
 NORTH 547250
 COUNTY HOWARD
 ADC MAP/GRID _____

TYPE OF POND:
 EXCAVATED
 EMBANKMENT
 BOTH

DRAINAGE AREA: 5.5 ACRES
 SURFACE AREA: 0.5 ACRES
 NORMAL DEPTH: 4.0 FEET
 DESIGN STORM FREQUENCY: 100 YEARS
 STORAGE AT DESIGN HIGH WATER (DHW): 0.54 AC-FT

EMBANKMENT (CHECK ALL THAT APPLY)

<input type="checkbox"/> STORMWATER MGMT. - WET	<input type="checkbox"/> SEDIMENT CONTROL	<input type="checkbox"/> WETLAND MITIGATION
<input type="checkbox"/> STORMWATER MGMT. - DRY	<input type="checkbox"/> LIVESTOCK	<input type="checkbox"/> WILDLIFE/FISH
<input type="checkbox"/> INFILTRATION/WATER QUALITY	<input type="checkbox"/> FLOOD CONTROL	<input type="checkbox"/> FIRE CONTROL
<input type="checkbox"/> WATER SUPPLY/IRRIGATION	<input type="checkbox"/> RECREATION	<input type="checkbox"/> OTHER (SPECIFY):
<input type="checkbox"/> SAND & GRAVEL WASH POND	<input type="checkbox"/> BORROW MATERIAL	

EMBANKMENT

TOP ELEVATION: 215.6 FT.	MAX FILL HEIGHT: 5.6 FT.
NORMAL POOL ELEVATION: 209.5 FT.	TOP WIDTH: 12 FT.
DHW WATER ELEVATION: 213.6 FT.	SIDE SLOPES: U.S. 3 : 1
	D.S. 3 : 1

WILL EMBANKMENT SERVE AS A PUBLIC ROADWAY? YES NO

PRINCIPAL SPILLWAY

BARREL SIZE: 30 INCHES DESIGN CAPACITY AT DHW: 34.3 CFS
 BCCMP ALUM PVC CAST-IN-PLACE BOX CULVERT
 WEIR CHANNEL OTHER: RCCP

EMERGENCY SPILLWAY

DESIGN CAPACITY AT DHW: N/A CFS
 VELOCITY: _____ FT/SEC BOTTOM WIDTH: _____ FT
 CREST ELEV: _____ FT SIDE SLOPES: _____ : 1
 SPILLWAY PROTECTION: GRASS RIPRAP GABIONS OTHER _____

DISTANCE BELOW POND TO PROPERTY LINE: 210 FT
 PUBLIC ROAD: 1210 FT *

SOIL CONSERVATION DISTRICT (NAME): _____ DATE: _____
 DISTRICT MANAGER SIGNATURE: _____
 (The following line to be completed and form re-submitted after As-Built certification has been accepted by the District)
 DATE AS-BUILT ACCEPTED: _____ DISTRICT REPRESENTATIVE SIGNATURE _____

* ALL DEVELOPMENT PROHIBITED WITHIN THIS REACH BY EASEMENT

DESIGN SUMMARY POND NO. 1

WATER SHED: _____ DEEP RUN
 STORAGE HEIGHT: 4.1 FT. 0.56 ACRE FEET
 100 YEAR STORAGE
 DRAINAGE AREA: 5.5 ACRE
 NORMAL SURFACE AREA: 0.2 ACRE
 SPILLWAY CAPACITY: 34.3 CFS (100 YEAR)
 STORAGE HEIGHT PRODUCT: 2.3 ACRE FEET²
 STRUCTURE CLASSIFICATION: "A" (BECAUSE STORAGE HEIGHT PRODUCT IS LESS THAN 3000) DEVELOPMENT IS PROHIBITED 120' DOWNSTREAM OF DAM BY FOREST CONSERVATION AND FLOOD PLAN EASEMENTS DURING NON-STORM CONDITIONS. NO WATER WILL BE IMPOUNDED AGAINST THE EMBANKMENT.
 2.0' NO EMERGENCY SPILLWAY
 2.0 EXCAVATED AND EMBANKMENT POCKET POND

FREEBOARD REQUIRED: _____
 FREEBOARD PROVIDED: _____
 STRUCTURE TYPE: _____

ENGINEER'S CERTIFICATE

"I Certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with requirements of the Howard Soil Conservation District."

Richard Subitt 2/25/03
 Signature of Engineer (Print name below signature) Date

DEVELOPER'S CERTIFICATE

"I/We Certify that all development and construction will be done according to this plan and that any responsible personal involved in the construction project will have a certificate of Attendance at the Department of the Environment Approved Training Program for the Control of sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by Howard Soil Conservation District"

Michael A. Givanniello 2/15/03
 Signature of Developer (Print name below signature) Date

Reviewed for HOWARD SCD and meet Technical Requirements.
John Pappas 2/14/03
 U.S.D.A. - Natural Resources Conservation Service Date

The development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT
Jeffrey Selig 2/14/03
 Howard SCD Date

THE SUBJECT PROPERTY IS ZONED M-2 PER THE 10-18-93 COMPREHENSIVE ZONING PLAN

Approved: Department of Planning and Zoning

Frank D. Lytle 2/10/03
 Director Date

Cindy Hamilton 2/14/03
 Chief, Division of Planning and Zoning Date

Carl D. Williams 2/15/03
 Chief, Development Engineering Division Date

SUBDIVISION NAME	SECTION/AREA	PARCEL NO.
HOWARD COUNTY DETENTION CENTER	N/A	660
LIBER/FOLIO	BLOCK NO	ZONING
2116/282	9, 10 AND 15	M-2
1009/368		43
15740, 15841		9
WATER CODE	BO1	SEWER CODE
		2221000

PROPOSED IMPROVEMENTS
 BUILDING ADDITION. SEE SITE ANALYSIS CHART FOR APPLICABLE DPZ FILE REFERENCE DPZ FILE REF. FOR CURRENT PROJECT SDP-02-20

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Architects Engineers and Construction Consultants
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 8950 Route 108 Suite 218
 Columbia Maryland 21045 (410)995-4067/Fax(410)992-1837



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 8950 Rt. 108 E., Suite 229 Columbia, MD. 21045
 Phone: 410-995-0090 Fax: 410-992-7038

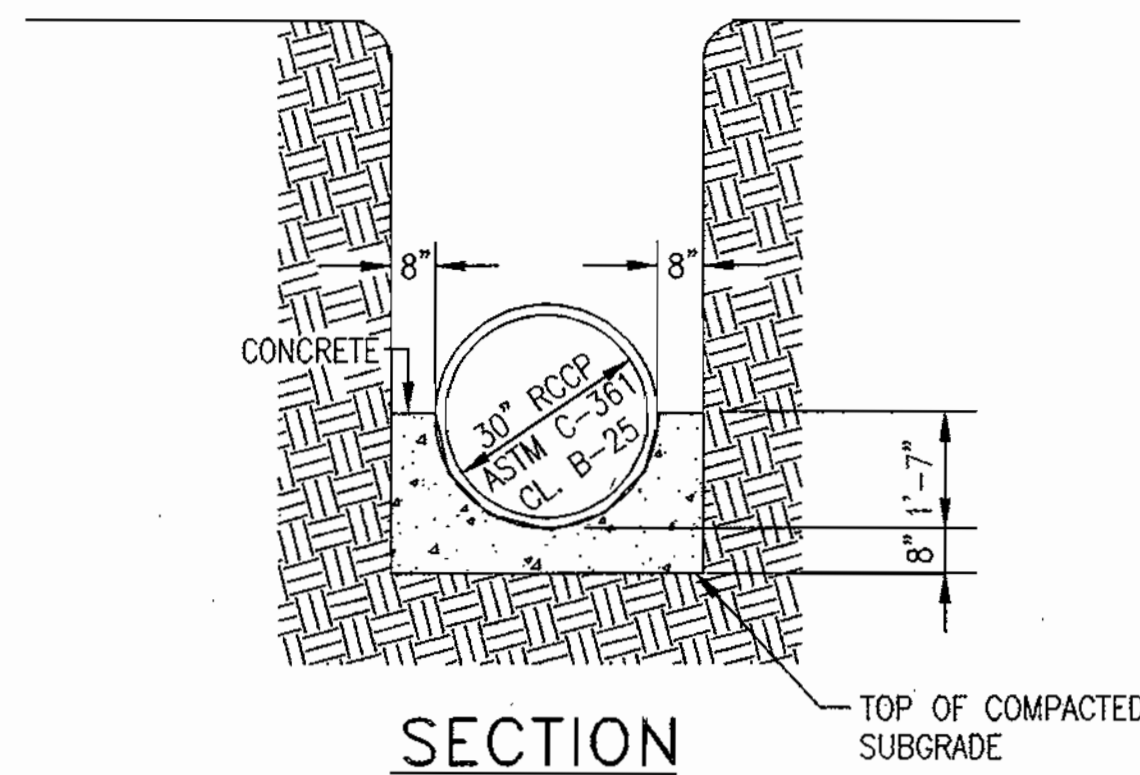
REVISIONS		
NO.	DATE	DESCRIPTION

STORMWATER MANAGEMENT PLAN DETAILS - I

HOWARD COUNTY CENTRAL BOOKING & DISTRICT COURT COMMISSIONERS FACILITY
 HOWARD COUNTY, MARYLAND

DATE: FEBRUARY 21, 2003

CAPITAL PROJECT NO. P-4916
C-11
 SET SHEET 11 of 25

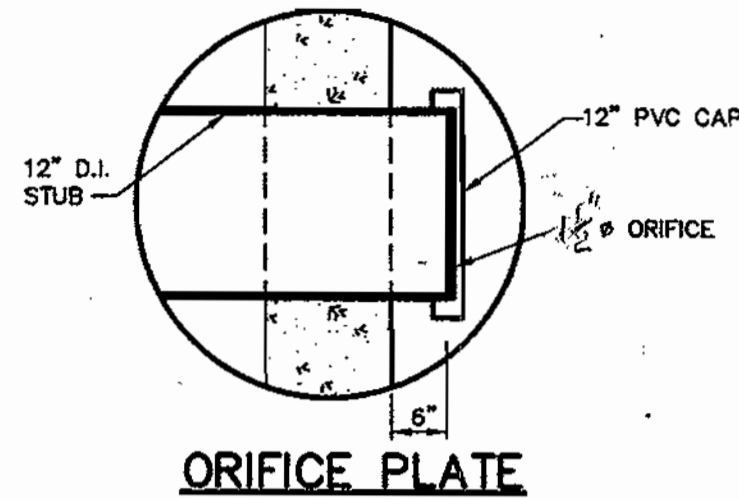


SECTION

NOTE: POUR CONCRETE AGAINST UNDISTURBED EARTH. REMOVE SHEETING BEFORE POURING CONCRETE. ALL CONCRETE SHALL BE 3000 PSI.

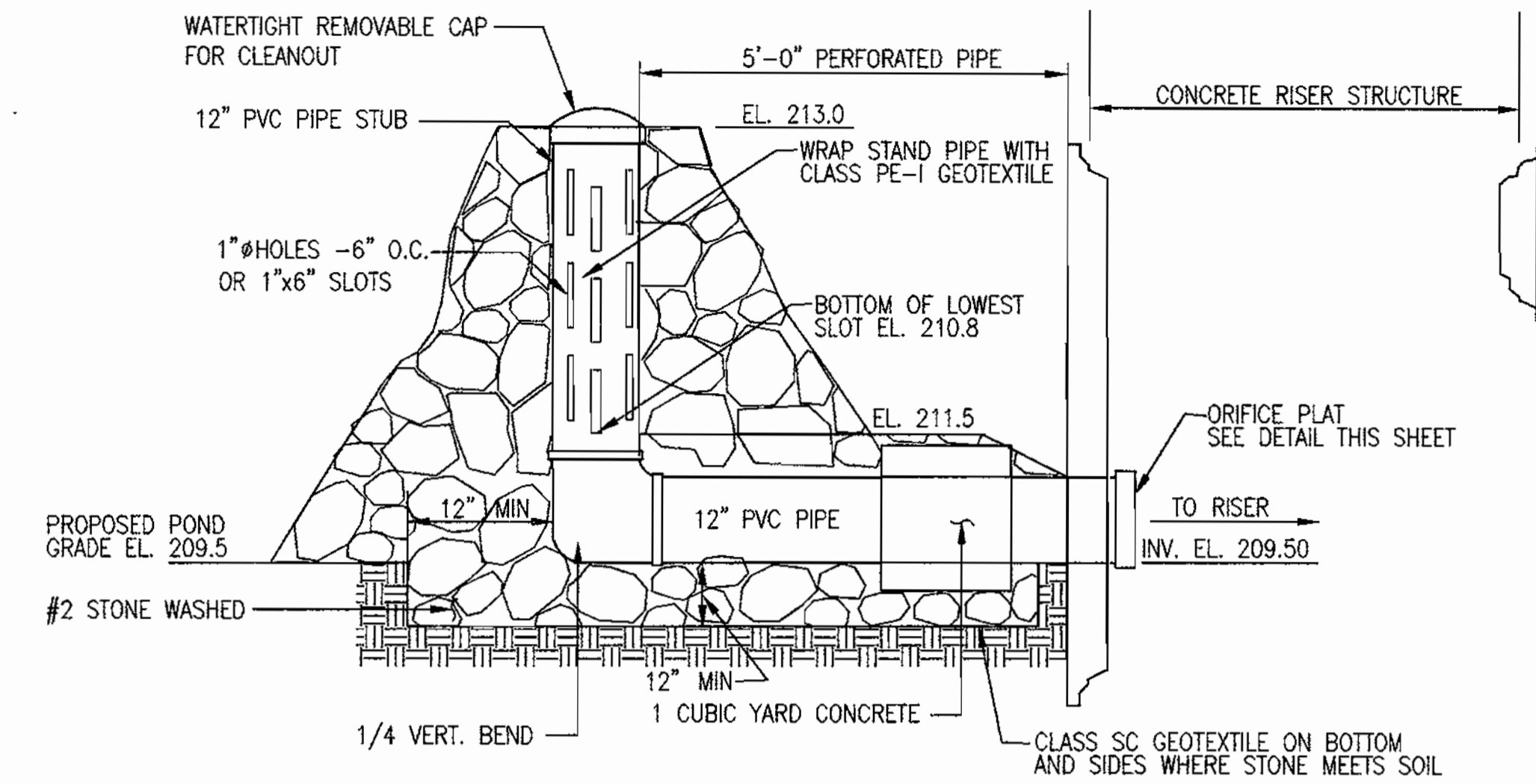
SCS TR-46 A-2 CONCRETE CRADLE

NOT TO SCALE



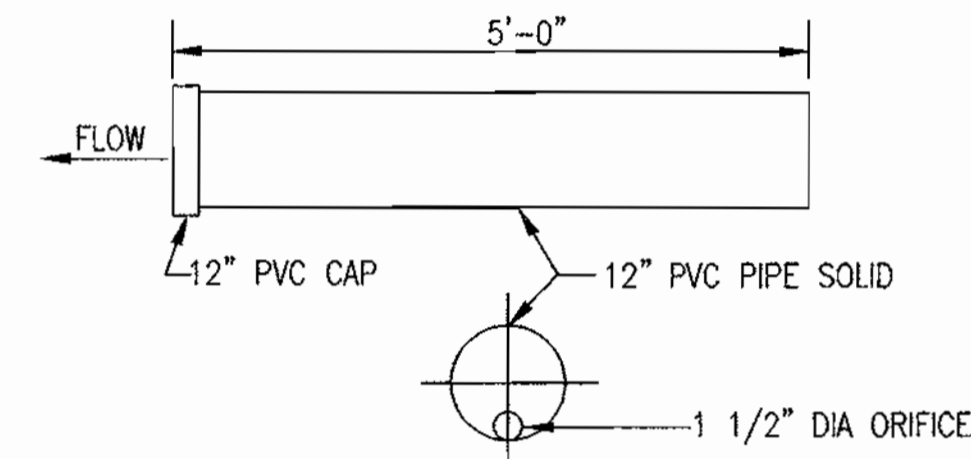
ORIFICE PLATE

PERFORATED PIPE SHALL BE BONDED TO ORIFICE SECTION AND HAVE REMOVABLE CAP PLACED ONTO OPPOSITE END FOR CLEAN OUT.
 PERFORATED PIPE SHALL BE SECURELY COVERED ON ALL SIDES WITH 12" MINIMUM #2 STONE. SEE DETAIL 2 THIS SHEET
 CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION ARE MINIMIZED.
 SET PERFORATED PIPE AT INVERTS SPECIFIED ON STORM WATER MANAGEMENT PLANS PRINCIPAL SPILLWAY PROFILE.



INTERNALLY CONTROLLED ORIFICE

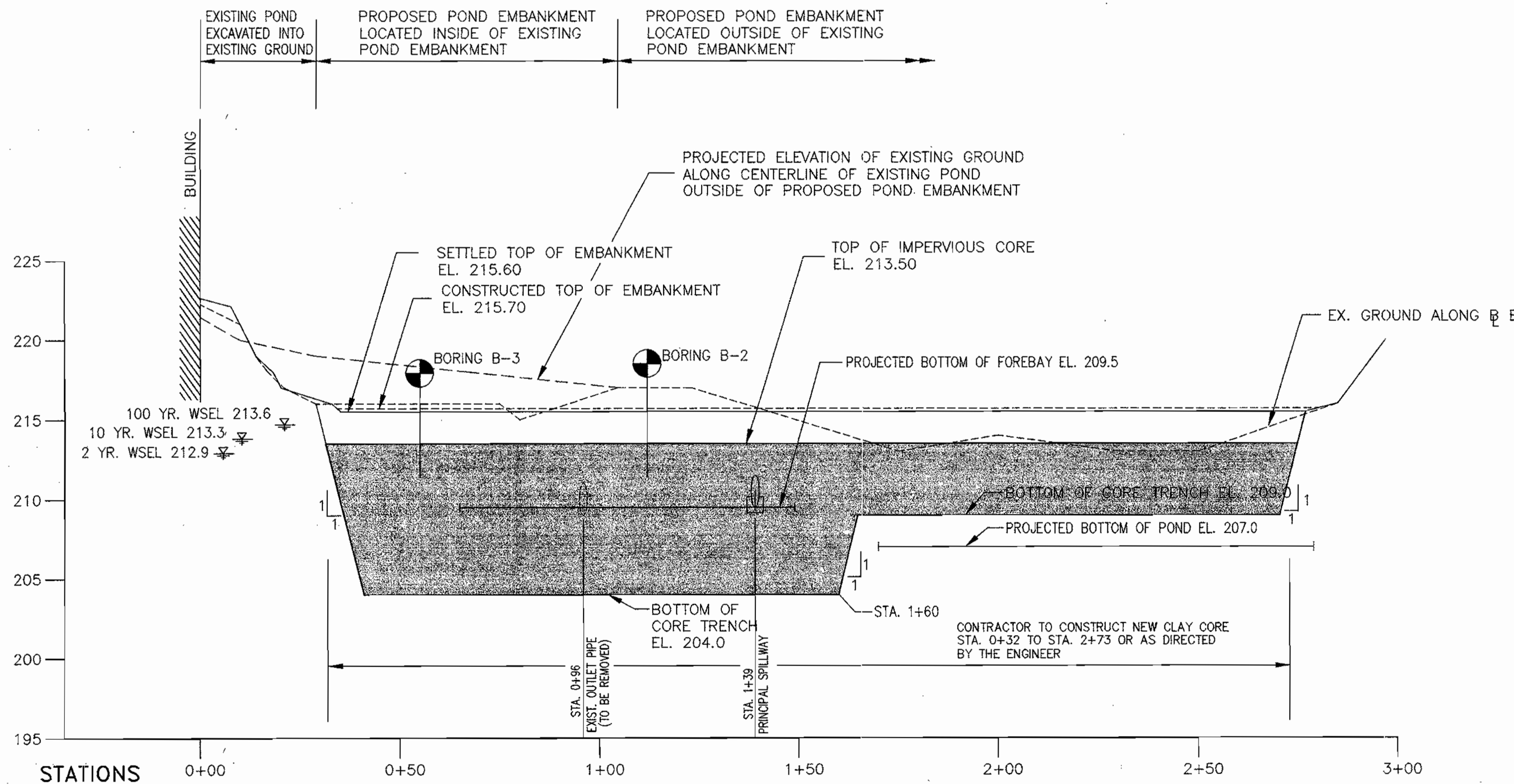
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ORIFICE SECTION

NOT TO SCALE

PROFILE ELEVATIONS



EMBankMENT PROFILE

SCALE: 1" = 20' HORIZ.
 1" = 5' VERT.

DEVELOPER'S/LANDOWNER'S CERTIFICATION
 I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a Registered Professional Engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.

Signature: *Michael A. Giovanniello* Date: 2/25/03
 Print Name: Michael A. Giovanniello MD. License No.

"AS-BUILT" CERTIFICATION
 I hereby certify that the facility shown on this plan was constructed as shown on the "As-Built" plans and meets the approved plans and specifications. I also certify that construction was inspected in accordance with the requirements of Howard County.

Signature: _____ Date: _____
 Print Name: _____ MD. License No. _____

ENGINEER'S CERTIFICATE
 I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with requirements of the Howard Soil Conservation District.

Signature of Engineer: *Richard Sublett* Date: 2/25/03
 Print Name: Richard Sublett

DEVELOPER'S CERTIFICATE
 I/We certify that all development and construction will be done according to this plan and that any responsible personnel involved in the construction project will have a certificate of Attendance at the Department of the Environment Approved Training Program for the Control of sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by Howard Soil Conservation District.

Signature of Developer: *Michael A. Giovanniello* Date: 2/25/03
 Print Name: Michael A. Giovanniello

Reviewed for HOWARD SCD and meet Technical Requirements.
 U.S.D.A. - Natural Resources Conservation Service
 Signature: *[Signature]* Date: 3/4/03

The development plan is approved for soil, erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.
 Signature: *[Signature]* Date: 3/4/03

THE SUBJECT PROPERTY IS ZONED M-2 PER THE 10-18-93 COMPREHENSIVE ZONING PLAN

Approved: Department of Planning and Zoning
 Director: *[Signature]* Date: 3/14/03
 Chief, Division of Land Development: *[Signature]* Date: 3/14/03
 Chief, Development Engineering Division: *[Signature]* Date: 3/14/03

SUBDIVISION NAME HOWARD COUNTY DETENTION CENTER	SECTION/AREA N/A	PARCEL NO. 660
LIBER/FOLIO 2116/282	BLOCK NO 9, 10 AND 15	ZONING M-2
TAX MAP 1009/568	GRID NO. 9	TAX MAP 43
15870, 15841	HOWARD CO. ELEC. DIST. NO-1	CENSUS TR. 6012.02
WATER CODE B01	SEWER CODE 2221000	

PROPOSED IMPROVEMENTS
 BUILDING ADDITION, SEE SITE ANALYSIS CHART FOR APPLICABLE DPZ FILE REFERENCE DPZ FILE REF. FOR CURRENT PROJECT SDP-02-20

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lati Architects Engineers and Construction Consultants
 Architects and Construction Consultants
 8950 Route 108 Suite 218
 Columbia Maryland 21045 (410)995-4067 Fax(410)992-1837



DCI CONSULTING ENGINEERING AND PLANNING
 8950 Rt. 108 E., Suite 229 Columbia, MD. 21045
 Phone: 410-995-0090 Fax: 410-992-7038
 DANIEL CONSULTANTS, INC.

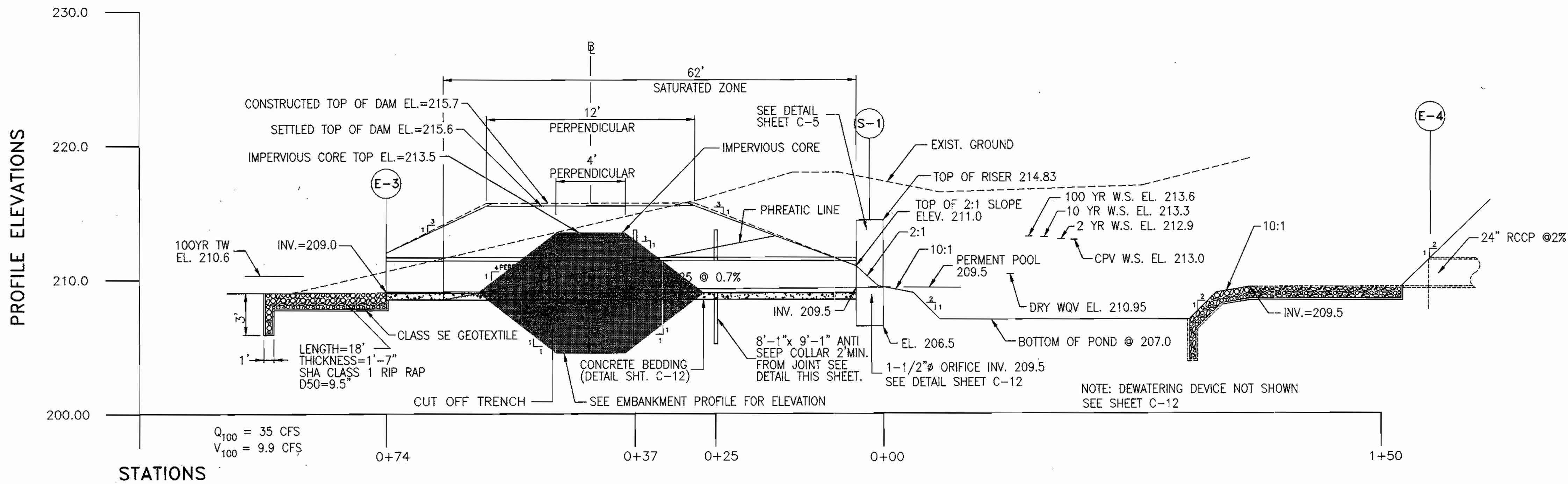
REVISIONS		
NO.	DATE	DESCRIPTION

STORMWATER MANAGEMENT PLAN DETAILS - I
 HOWARD COUNTY CENTRAL BOOKING & DISTRICT COURT COMMISSIONERS FACILITY
 HOWARD COUNTY, MARYLAND
 DATE: FEBRUARY 21, 2003

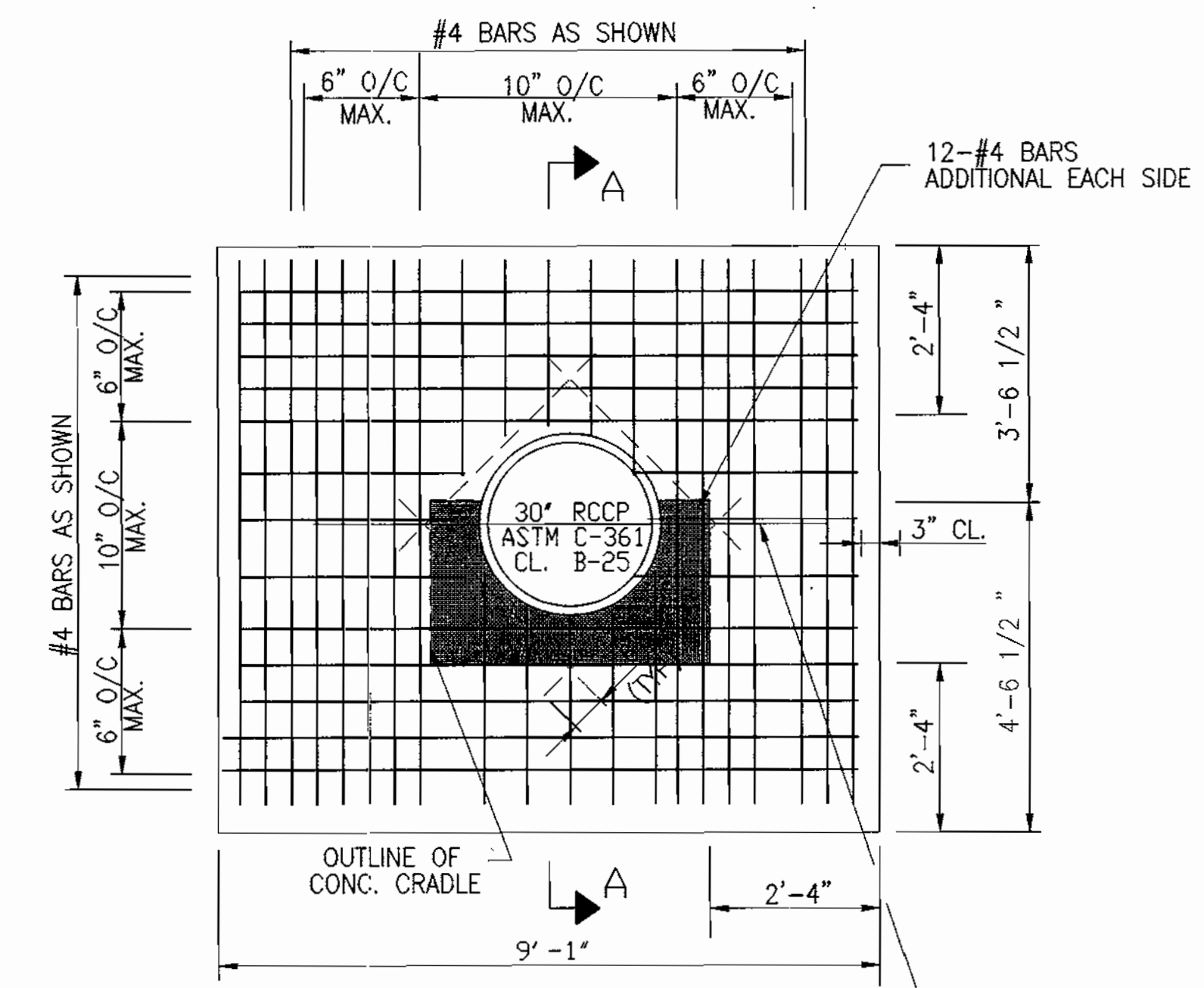
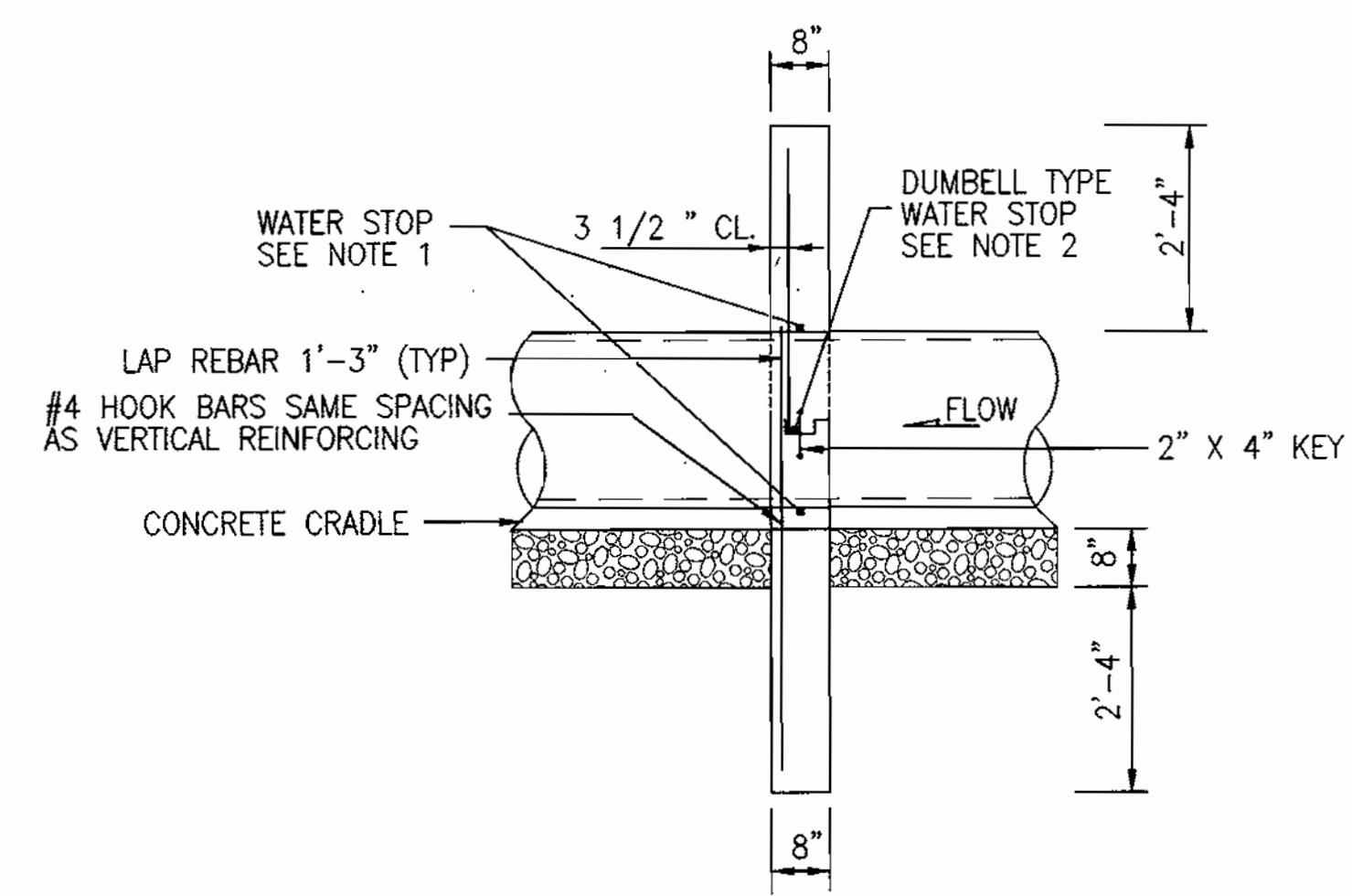
CAPITAL PROJECT NO.
 P - 4916

C-12
 SET SHEET 12 of 25

SDP-02-20



PRINCIPAL SPILLWAY
SCALE: 1" = 10' HORIZ.
1" = 5' VERT.



- NOTES:
1. WATER STOP AROUND PIPE SHALL BE VOLCLAY TYPE RX AS MANUFACTURED BY AMERICAN COLLOID CO. OR APPROVED EQUIVALENT.
 2. DUMB BELL TYPE WATER STOP IN CONSTRUCTION JOINT SHALL BE 6" VINYL; MODEL D6-316 BY VINYLEX OR APPROVED EQUIVALENT.
 3. ALL CONCRETE SHALL BE MSHA MIX NO. 3 (3500 PSI).
 4. ALL SURFACES BETWEEN THE PIPE AND ANTI-SEEP COLLAR, EXCEPT BETWEEN THE PIPE AND THE CRADLE SHALL BE SEALED WITH AN ASPHALT JOINT FILLER MATERIAL TO PREVENT SEEPAGE.

ENGINEER'S CERTIFICATE

I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with requirements of the Howard Soil Conservation District.

Richard Sobott
Signature of Engineer (Print name below signature) 2/25/03
Date

DEVELOPER'S CERTIFICATE

I/We Certify that all development and construction will be done according to this plan and that any responsible personal involved in the construction project will have a certificate of Attendance at the Department of the Environment Approved Training Program for the Control of sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by Howard Soil Conservation District.

Michael A. Guarnicello
Signature of Developer (Print name below signature) 2/25/03
Date

Reviewed for HOWARD SCD and meet Technical Requirements. 3/4/03
U.S.D.A. - Natural Resources Conservation Service Date

The development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT

John Kelly
Howard SCD Date 3/4/03

THE SUBJECT PROPERTY IS ZONED M-2 PER THE 10-18-93 COMPREHENSIVE ZONING PLAN

Approved: Department of Planning and Zoning

Danish D. Cagle
Director Date 2/12/03

Linda Klemm
Chief, Division of Land Development Date 2/18/03

John D. Quinlan
Chief, Development Engineering Division Date 2/19/03

SUBDIVISION NAME HOWARD COUNTY DETENTION CENTER		SECTION/AREA N/A	PARCEL NO. 660
LIBER/FOLIO 2116/282 1009/368 1972/1524	BLOCK NO 9, 10 AND 15	ZONING M-2	TAX MAP GRID NO 43 9
WATER CODE B01		HOWARD CO. ELEC. DIST. NO-1	CENSUS TR. 6012.02
PROPOSED IMPROVEMENTS BUILDING ADDITION, SEE SITE ANALYSIS CHART FOR APPLICABLE DPZ FILE REFERENCE DPZ FILE REF. FOR CURRENT PROJECT SDP-02-20		SEWER CODE 2221000	

DEVELOPER'S/LANDOWNER'S CERTIFICATION

I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a Registered Professional Engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 day of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.

Michael A. Guarnicello
Signature Date 2/25/03
Print Name MD. License No.

"AS-BUILT" CERTIFICATION

I hereby certify that the facility shown on this plan was constructed as shown on the "As-Built" plans and meets the approved plans and specifications. I also certify that construction was inspected in accordance with the requirements of Howard County.

Signature Date
Print Name MD. License No.

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Architects Engineers
and Construction Consultants

8950 Route 108 Suite 218
Columbia Maryland 21045 (410)995-4067 Fax(410)992-1837



DCI CONSULTING ENGINEERING AND PLANNING
8950 Rt. 108 E., Suite 229 Columbia, MD. 21045
Phone: 410-995-0090 Fax: 410-992-7038

DANIEL CONSULTANTS, INC.

REVISIONS

NO.	DATE	DESCRIPTION

STORMWATER MANAGEMENT DETAILS-III

HOWARD COUNTY CENTRAL BOOKING & DISTRICT COURT COMMISSIONERS FACILITY
HOWARD COUNTY, MARYLAND

DATE: FEBRUARY 21, 2003

CAPITAL PROJECT NO.
P - 4916

C-13

SET SHEET 13 OF 25

POUND CONSTRUCTION SPECIFICATIONS

THESE SPECIFICATIONS ARE APPROPRIATE TO ALL PONDS WITHIN THE SCOPE OF THE STANDARD FOR PRACTICE MD-378.

SITE PREPARATION

AREAS DESIGNATED FOR BORROW AREAS, EMBANKMENT, AND STRUCTURAL WORKS SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL.

AREAS TO BE COVERED BY THE RESERVOIR WILL BE CLEARED OF ALL TREES, BRUSH, LOGS, FENCES, RUBBISH AND OTHER OBJECTIONABLE MATERIAL.

ALL CLEARED AND GRUBBED MATERIAL SHALL BE DISPOSED OF OUTSIDE AND BELOW THE LIMITS OF THE DAM AND RESERVOIR AS DIRECTED BY THE OWNER OR HIS REPRESENTATIVE.

EARTH FILL

MATERIAL - THE FILL MATERIAL SHALL BE TAKEN FROM APPROVED DESIGNATED BORROW AREAS. IT SHALL BE FREE OF ROOTS, STUMPS, WOOD, RUBBISH, STONES GREATER THAN 6"

MATERIALS USED IN THE OUTER SHELL OF THE EMBANKMENT MUST HAVE THE CAPABILITY TO SUPPORT VEGETATION OF THE QUALITY REQUIRED TO PREVENT EROSION OF THE EMBANKMENT.

PLACEMENT - AREAS ON WHICH FILL IS TO BE PLACED SHALL BE SCARIFIED PRIOR TO PLACEMENT OF FILL. FILL MATERIALS SHALL BE PLACED IN MAXIMUM 8 INCH THICK (BEFORE COMPACTION) LAYERS WHICH ARE TO BE CONTINUOUS OVER THE ENTIRE LENGTH OF THE FILL.

COMPACTION - THE MOVEMENT OF THE HAULING AND SPREADING EQUIPMENT OVER THE FILL SHALL BE CONTROLLED SO THAT THE ENTIRE SURFACE OF EACH LIFT SHALL BE TRAVERSED BY NOT LESS THAN ONE TREAD TRACK OF HEAVY EQUIPMENT OR COMPACTION SHALL BE ACHIEVED BY A MINIMUM OF FOUR COMPLETE PASSES OF A SHEEPSFOOT, RUBBER TIRE OR VIBRATORY ROLLER.

WHEN REQUIRED BY THE REVIEWING AGENCY THE MINIMUM REQUIRED DENSITY SHALL NOT BE LESS THAN 95 % OF MAXIMUM DRY DENSITY WITH A MOISTURE CONTENT WITHIN ± 2% OF THE OPTIMUM.

OUT - OFF TRENCH - THE CUTOFF TRENCH SHALL BE EXCAVATED INTO IMPERVIOUS MATERIAL ALONG OR PARALLEL TO THE CENTERLINE OF THE EMBANKMENT AS SHOWN ON THE PLANS.

EMBANKMENT CORE - THE CORE SHALL BE PARALLEL TO THE CENTERLINE OF THE EMBANKMENT AS SHOWN ON THE PLANS. THE TOP WIDTH OF THE CORE SHALL BE A MINIMUM OF FOUR FEET.

STRUCTURE BACKFILL - BACKFILL ADJACENT TO PIPES OR STRUCTURES SHALL BE OF THE TYPE AND QUALITY CONFORMING TO THAT SPECIFIED FOR THE ADJOINING FILL MATERIAL.

STRUCTURE BACKFILL MAY BE FLOWABLE FILL MEETING THE REQUIREMENTS OF MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION MATERIALS, SECTION 313 AS MODIFIED.

PIPE CONDUITS-ALL PIPES SHALL BE CIRCULAR IN CROSS SECTION. CORRUGATED METAL PIPE - ALL OF THE FOLLOWING CRITERIA SHALL APPLY FOR CORRUGATED METAL PIPE:

1. MATERIALS - (ALUMINUM COATED STEEL PIPE) - THIS PIPE AND ITS APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF ASHOTO SPECIFICATION M-274 WITH WATER TIGHT COUPLING BANDS OR FLANGES.

2. MATERIALS - (ALUMINUM PIPE) - THIS PIPE AND ITS APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF ASHOTO SPECIFICATION M-196 OR M-211 WITH WATER TIGHT COUPLING BANDS OR FLANGES.

IN CONTACT WITH CONCRETE SHALL BE PAINTED WITH ONE COAT OF ZINC CHROMATE PRIMER OR TWO COATS OF ASPHALT.

2. COUPLING BANDS, ANTI-SEEP COLLARS, END SECTIONS, ETC., MUST BE COMPOSED OF THE SAME MATERIAL AND COATINGS AS THE PIPE.

3. CONNECTIONS - ALL CONNECTIONS WITH PIPES MUST BE COMPLETELY WATER TIGHT. THE DRAIN PIPE OR BARREL CONNECTION TO THE RISER SHALL BE WELDED ALL AROUND WHEN THE PIPE AND RISER ARE METAL.

ALL CONNECTIONS SHALL USE A RUBBER OR NEOPRENE GASKET WHEN JOINING PIPE SECTIONS. THE END OF EACH PIPE SHALL BE RE-ROLLED AN ADEQUATE NUMBER OF CORRUGATIONS TO ACCOMMODATE THE BANDWIDTH.

3. CONNECTIONS - ALL CONNECTIONS WITH PIPES MUST BE COMPLETELY WATER TIGHT. THE DRAIN PIPE OR BARREL CONNECTION TO THE RISER SHALL BE WELDED ALL AROUND WHEN THE PIPE AND RISER ARE METAL.

4. BEDDING - THE PIPE SHALL BE FIRMLY AND UNIFORMLY BEDDED THROUGHOUT ITS ENTIRE LENGTH.

5. BACKFILLING SHALL CONFORM TO "STRUCTURE BACKFILL".

6. OTHER DETAILS (ANTI-SEEP COLLARS, VALVES, ETC.) SHALL BE AS SHOWN ON THE DRAWINGS.

REINFORCED CONCRETE PIPE - ALL OF THE FOLLOWING CRITERIA SHALL APPLY FOR REINFORCED CONCRETE PIPE:

1. MATERIALS - REINFORCED CONCRETE PIPE SHALL HAVE BELL AND SPIGOT JOINTS WITH RUBBER GASKETS AND SHALL EQUAL OR EXCEED ASTM C-361.

2. BEDDING - REINFORCED CONCRETE PIPE CONDUITS SHALL BE LAID IN A CONCRETE BEDDING / CRADLE FOR THEIR ENTIRE LENGTH.

3. LAYING PIPE - BELL AND SPIGOT PIPE SHALL BE PLACED WITH THE BELL END UPSTREAM. JOINTS SHALL BE MADE IN ACCORDANCE WITH RECOMMENDATIONS OF THE MANUFACTURER OF THE MATERIAL.

4. BACKFILLING SHALL CONFORM TO "STRUCTURE BACKFILL".

5. OTHER DETAILS (ANTI-SEEP COLLARS, VALVES, ETC.) SHALL BE SHOWN ON THE DRAWINGS.

6. BACKFILLING SHALL CONFORM TO "STRUCTURE BACKFILL".

7. OTHER DETAILS (ANTI-SEEP COLLARS, VALVES, ETC.) SHALL BE SHOWN ON THE DRAWINGS.

PLASTIC PIPE - THE FOLLOWING CRITERIA SHALL APPLY FOR PLASTIC PIPE:

1. MATERIALS - PVC PIPE SHALL BE PVC-1120 OR PVC-1220 CONFORMING TO ASTM D-1785 OR ASTM D-2241.

2. JOINTS AND CONNECTIONS TO ANTI-SEEP COLLARS SHALL BE COMPLETELY WATER TIGHT.

3. BEDDING - THE PIPE SHALL BE FIRMLY AND UNIFORMLY BEDDED THROUGHOUT ITS ENTIRE LENGTH.

4. BACKFILLING SHALL CONFORM TO "STRUCTURE BACKFILL".

5. OTHER DETAILS (ANTI-SEEP COLLARS, VALVES, ETC.) SHALL BE AS SHOWN ON THE DRAWINGS.

DRAINAGE DIAPHRAGMS WHEN A DRAINAGE DIAPHRAGM IS USED, A REGISTERED PROFESSIONAL ENGINEER WILL SUPERVISE THE DESIGN AND CONSTRUCTION INSPECTION.

CONCRETE CONCRETE SHALL MEET THE REQUIREMENTS OF MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, SECTION 414, MIX NO. 3.

ROCK RIPRAP ROCK RIPRAP SHALL MEET THE REQUIREMENTS OF MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, SECTION 311.

GEOTEXTILE SHALL BE PLACED UNDER ALL RIPRAP AND SHALL MEET THE REQUIREMENTS OF MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, SECTION 921.09, CLASS C.

CARE OF WATER DURING CONSTRUCTION ALL WORK ON PERMANENT STRUCTURES SHALL BE CARRIED OUT IN AREAS FREE FROM WATER.

ALL WORK ON PERMANENT STRUCTURES SHALL BE CARRIED OUT IN AREAS FREE FROM WATER. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN ALL TEMPORARY DIKES, LEVEES, COFFERDAMS, DRAINAGE CHANNELS, AND STREAM DIVERSIONS NECESSARY TO PROTECT THE AREAS TO BE OCCUPIED BY THE PERMANENT WORKS.

THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN ALL TEMPORARY DIKES, LEVEES, COFFERDAMS, DRAINAGE CHANNELS, AND STREAM DIVERSIONS NECESSARY TO PROTECT THE AREAS TO BE OCCUPIED BY THE PERMANENT WORKS.

STABILIZATION

ALL BORROW AREAS SHALL BE GRADED TO PROVIDE PROPER DRAINAGE AND LEFT IN A SLIGHTLY CONDITION. ALL EXPOSED SURFACES OF THE EMBANKMENT, SPILLWAY, SPOIL AND BORROW AREAS, AND BERMS SHALL BE STABILIZED BY SEEDING, LIMING, FERTILIZING AND MULCHING IN ACCORDANCE WITH THE NATURAL RESOURCES CONSERVATION SERVICE STANDARDS AND SPECIFICATIONS FOR CRITICAL AREA PLANTING (MD-342) OR AS SHOWN ON THE ACCOMPANYING DRAWINGS.

EROSION AND SEDIMENT CONTROL

CONSTRUCTION OPERATIONS WILL BE CARRIED OUT IN SUCH A MANNER THAT EROSION WILL BE CONTROLLED AND WATER AND AIR POLLUTION MINIMIZED. STATE AND LOCAL LAWS CONCERNING POLLUTION ABATEMENT WILL BE FOLLOWED. CONSTRUCTION PLANS SHALL DETAIL EROSION AND SEDIMENT CONTROL MEASURES.

CONCLUSIONS FROM APRIL 29, 2002 GEOTECHNICAL REPORT BYTIDEWATER ENVIRONMENTAL ENGINEERING:

1. THE SOILS IN THE PROPOSED INFILTRATION AREA (BORING B-1) CONSISTS OF SILTY CLAY WHICH ARE NOT SUITABLE FOR INFILTRATION; AN INFILTRATION TRENCH CANNOT BE BUILT AT THIS LOCATION TO PROVIDE THE WATER QUALITY VOLUME.

2. IT DOES NOT APPEAR THAT THE EXISTING DIKE WAS CONSTRUCTED IN ACCORDANCE WITH THE USDA COE 378 DESIGN STANDARDS. THESE STANDARDS REQUIRE THAT THE DIKE HAVE AN IMPERVIOUS CORE AND CUTOFF TRENCH WITH MINIMUM DEPTH OF 4 FEET. THE CORE AND CUTOFF TRENCH ARE TO BE CONSTRUCTED WITH FILL HAVING A UNIFIED SOIL CLASSIFICATION OF GC, SC, CH OR CL WITH AT LEAST 30% FINES FOR THE GC AND SC SOILS.

3. THE CLAY SOILS ENCOUNTERED AT THE BOTTOM OF THE POND (BORING B-4) ARE NOT SUITABLE FOR INFILTRATION. IT IS THEREFORE NOT FEASIBLE TO USE INFILTRATION PRACTICES TO PROVIDE FOR THE WATER QUALITY VOLUME.

4. THE RECHARGE VOLUME AND WATER QUALITY VOLUME SHOULD BE PROVIDED FOR USING SEPARATE FACILITIES BECAUSE OF THE LOW INFILTRATION RATES.

5. THE HIGH WATER TABLE AT BORING B-4 WOULD INDICATE A WET POND IS FEASIBLE AT THAT LOCATION TO PROVIDE THE WATER QUALITY VOLUME.

INFILTRATION BASINS NOTES AND SPECIFICATIONS

AN INFILTRATION BASIN MAY NOT RECEIVE RUN-OFF UNTIL ENTIRE CONTRIBUTING DRAINAGE AREA TO THE BASIN HAS RECEIVED FINAL STABILIZATION.

1. THE SEQUENCE OF VARIOUS PHASES OF BASIC CONSTRUCTION SHALL BE COORDINATED WITH THE OVERALL PROJECT CONSTRUCTION SCHEDULE. SEE SHEETS C-5 AND C-6 THE PARTIALLY EXCAVATED BASIN, HOWEVER, CANNOT SERVE AS A SEDIMENTATION BASIN.

2. INITIAL BASIN EXCAVATION SHALL BE CARRIED TO WITHIN 2 FEET OF THE FINAL ELEVATION OF THE BASIN FLOOR. FINAL EXCAVATION TO THE FINISHED GRADE SHALL DEFERRED UNTIL ALL DISTURBED AREAS ON THE WATERSHED HAVE BEEN STABILIZED OR PROTECTED.

3. PROVIDE 4' OF TOPSOIL ON ALL DISTURBED AREAS. PLANT ALL SLOPES STEEPER THAN 4:1 WITH CROWN VETCH SEED BOTTOM OF BASIN WITH MIX NO. 10 GRASSES AS GIVEN ON SHEET C-18.

OPERATION AND MAINTENANCE

AN OPERATION AND MAINTENANCE PLAN IN ACCORDANCE WITH LOCAL OR STATE REGULATIONS WILL BE PREPARED FOR ALL PONDS. AS A MINIMUM, THE DAM INSPECTION CHECKLIST LOCATED IN APPENDIX A OF THE MD-378 SPECIFICATIONS SHALL BE INCLUDED AS PART OF THE OPERATION AND MAINTENANCE PLAN AND PERFORMED AT LEAST ANNUALLY.

OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED STORMWATER PONDS (P-1 THROUGH P-5)

ROUTINE MAINTENANCE:

- A. FACILITY SHALL BE INSPECTED ANNUALLY AND AFTER MAJOR STORM. INSPECTION SHALL BE PERFORMED DURING WET WEATHER TO DETERMINE IF THE POND IS FUNCTIONING PROPERLY.
B. TOP AND SIDE SLOPES OF THE EMBANKMENT SHALL BE MOWED A MINIMUM OF TWO(2) TIMES PER YEAR, ONCE IN JUNE AND ONCE IN SEPTEMBER. OTHER SIDE SLOPES AND MAINTENANCE ACCESS SHALL BE MOWED AS NEEDED.
C. DEBRIS AND LITTER SHALL BE REMOVED DURING REGULAR MOWING OPERATIONS AND AS NEEDED.
D. VISIBLE SIGNS OF EROSION IN THE POND AS WELL AS THE RIPRAP OR GABION OUTLET AREA SHALL BE REPAIRED AS SOON AS IT IS NOTICED.

NON-ROUTINE MAINTENANCE:

- A. STRUCTURAL COMPONENT OF THE POND SUCH AS THE DAM, THE RISER, AND THE PIPES SHALL BE REPAIRED UPON THE DETECTION OF ANY DAMAGED. THE COMPONENT SHALL BE INSPECTED DURING ROUTINE MAINTENANCE OPERATIONS.
B. SEDIMENT SHALL BE REMOVED FROM THE POND, AND FOREBAY, NO LATER THAN WHEN THE CAPACITY OF THE POND, OR FOREBAY, IS HALF FULL OF SEDIMENT, OR, WHEN DEEMED NECESSARY FOR AESTHETIC REASONS, UPON APPROVAL FROM THE DEPARTMENT OF PUBLIC WORKS.

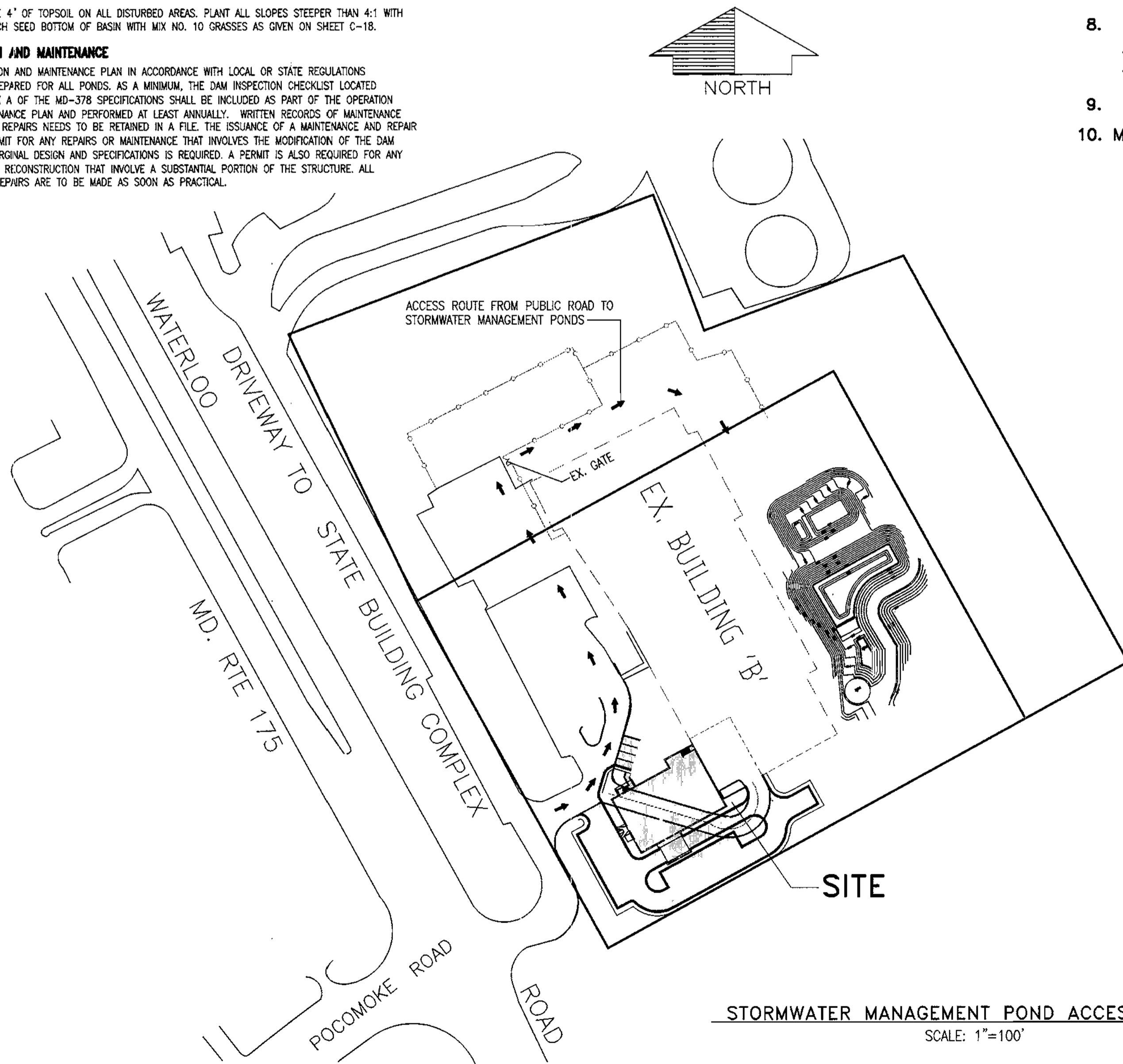


TABLE 2 INFILTRATION BASIN OPERATION/MAINTENANCE CHECKLIST

Table with columns: PROJECT NAME:, PROJECT NUMBER:, INSPECTOR:, INSPECTION DATE:, DEBRIS CLEANOUT, MAINTENANCE FREQUENCY, SEDIMENT TRAPS, VEGETATION, DEWATERING, SEDIMENT CLEANOUT, INLETS, OUTLET/SPILLWAY, STRUCTURAL REPAIRS, FENCES/ACCESS REPAIRS, MOSQUITO CONTROL.

ENGINEER'S CERTIFICATE and DEVELOPER'S CERTIFICATE forms. Includes signatures of Richard Sobota and Michael A. Diwanallo, dated 2/25/03 and 2/25/03.

THE SUBJECT PROPERTY IS ZONED M-2 PER THE 10-18-93 COMPREHENSIVE ZONING PLAN

Approval form from Department of Planning and Zoning, Howard County Detention Center, dated 2/10/03, 2/11/03, and 2/12/03.

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ATI Architects Engineers and Construction Consultants, 8950 Route 108 Suite 218, Columbia Maryland 21045 (410)995-4067 Fax(410)992-1837

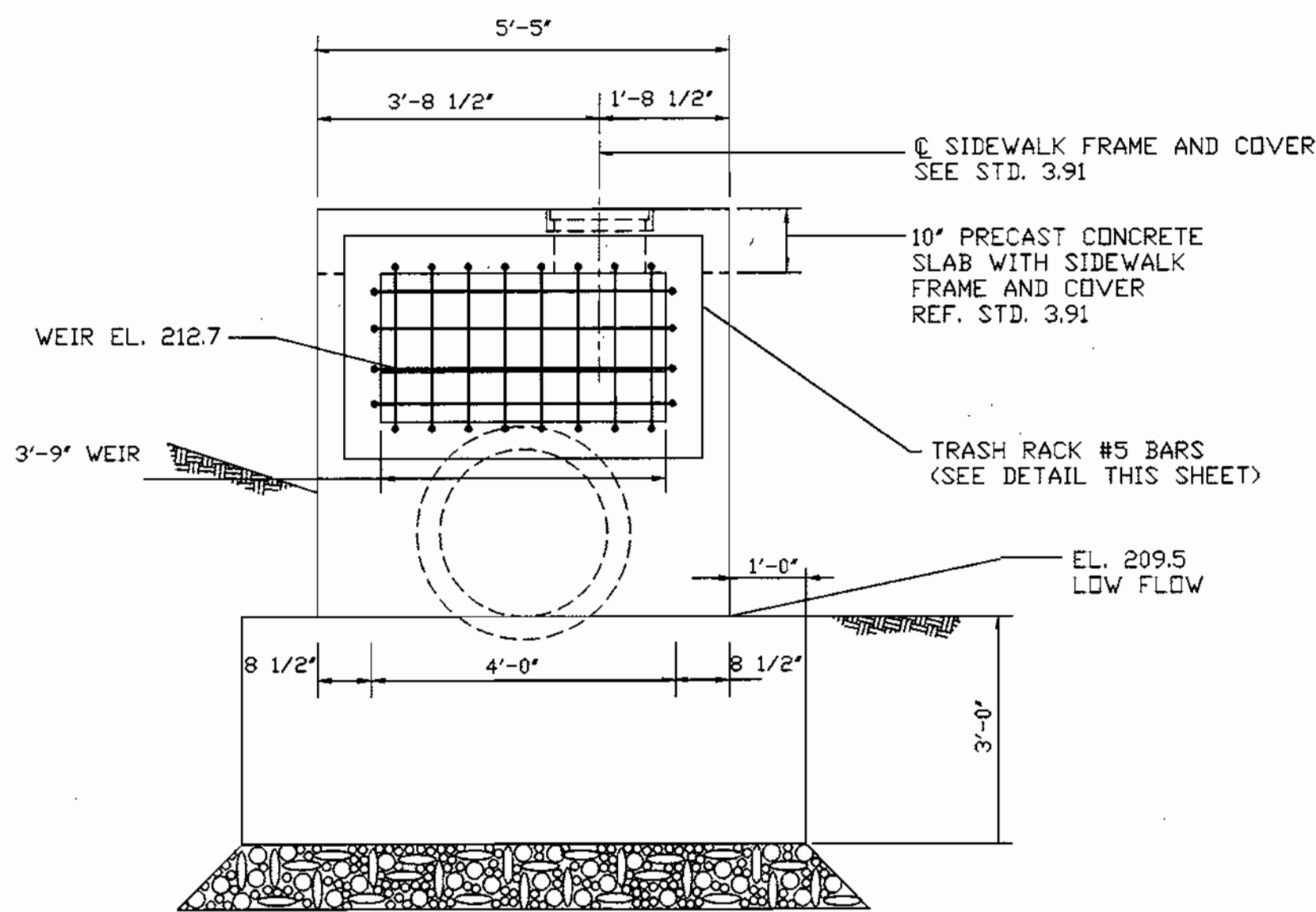
DCI CONSULTING ENGINEERING AND PLANNING, 8950 Rt. 108 E., Suite 229 Columbia, MD. 21045, Phone: 410-995-0090 Fax: 410-992-7038

Table with columns: NO., DATE, DESCRIPTION

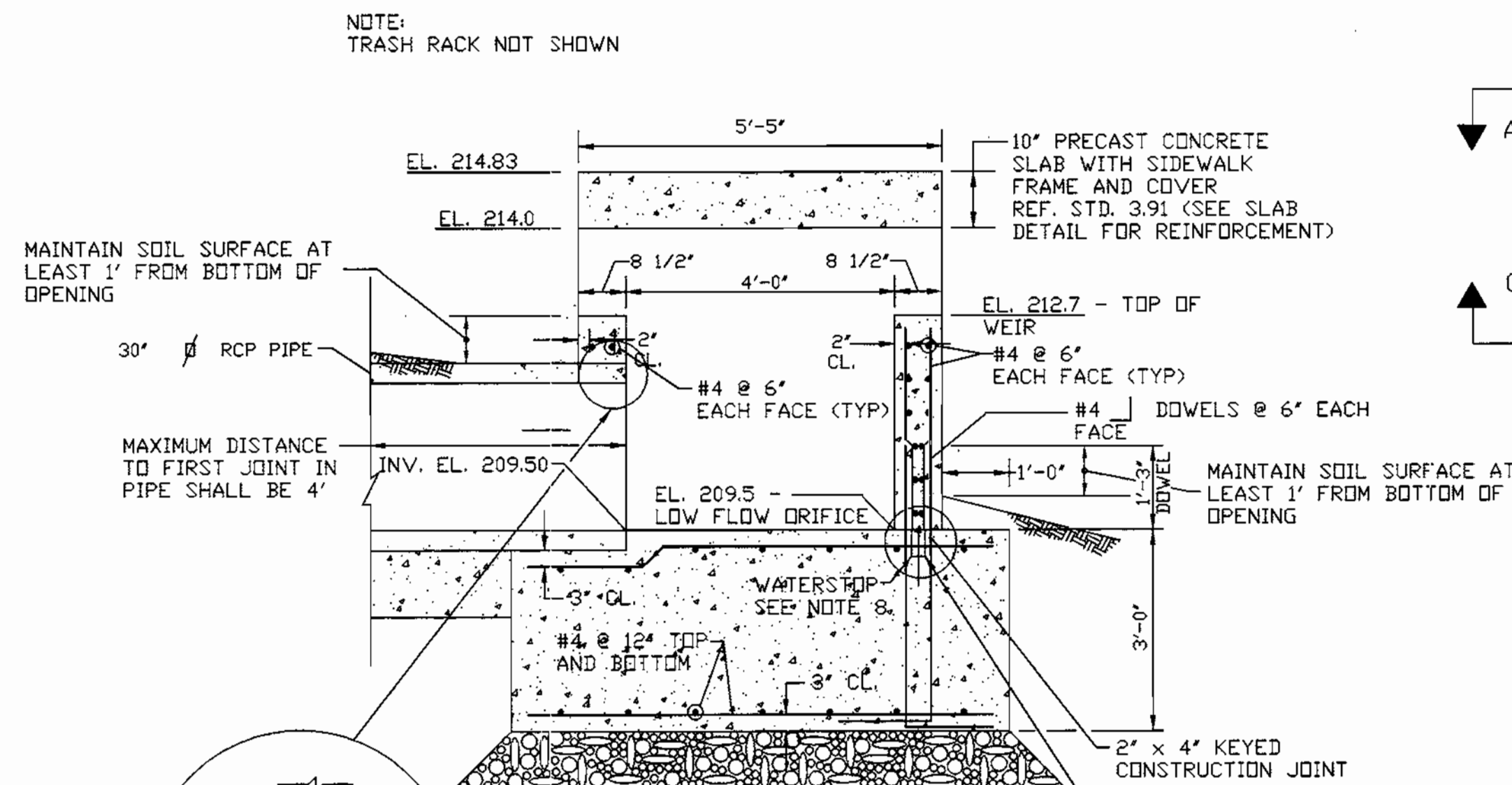
Table with columns: NO., DATE, DESCRIPTION

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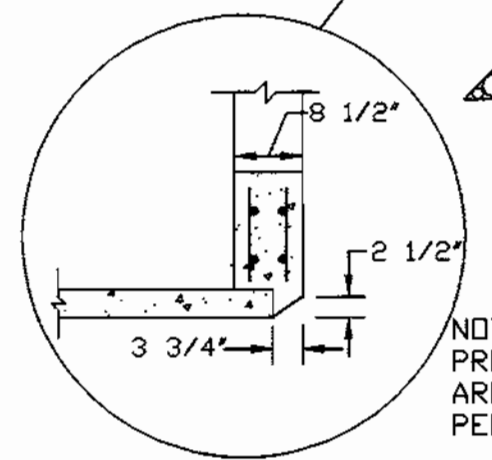
CAPITAL PROJECT NO. C-14, SET SHEET 14 of 25, SDP-02-20



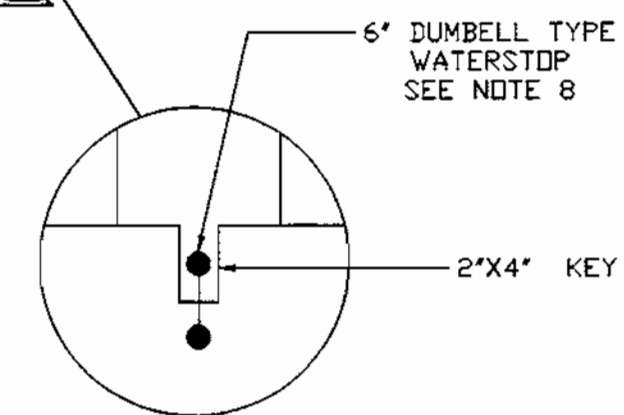
SECTION A-A
SCALE: 1/2" = 1'-0"



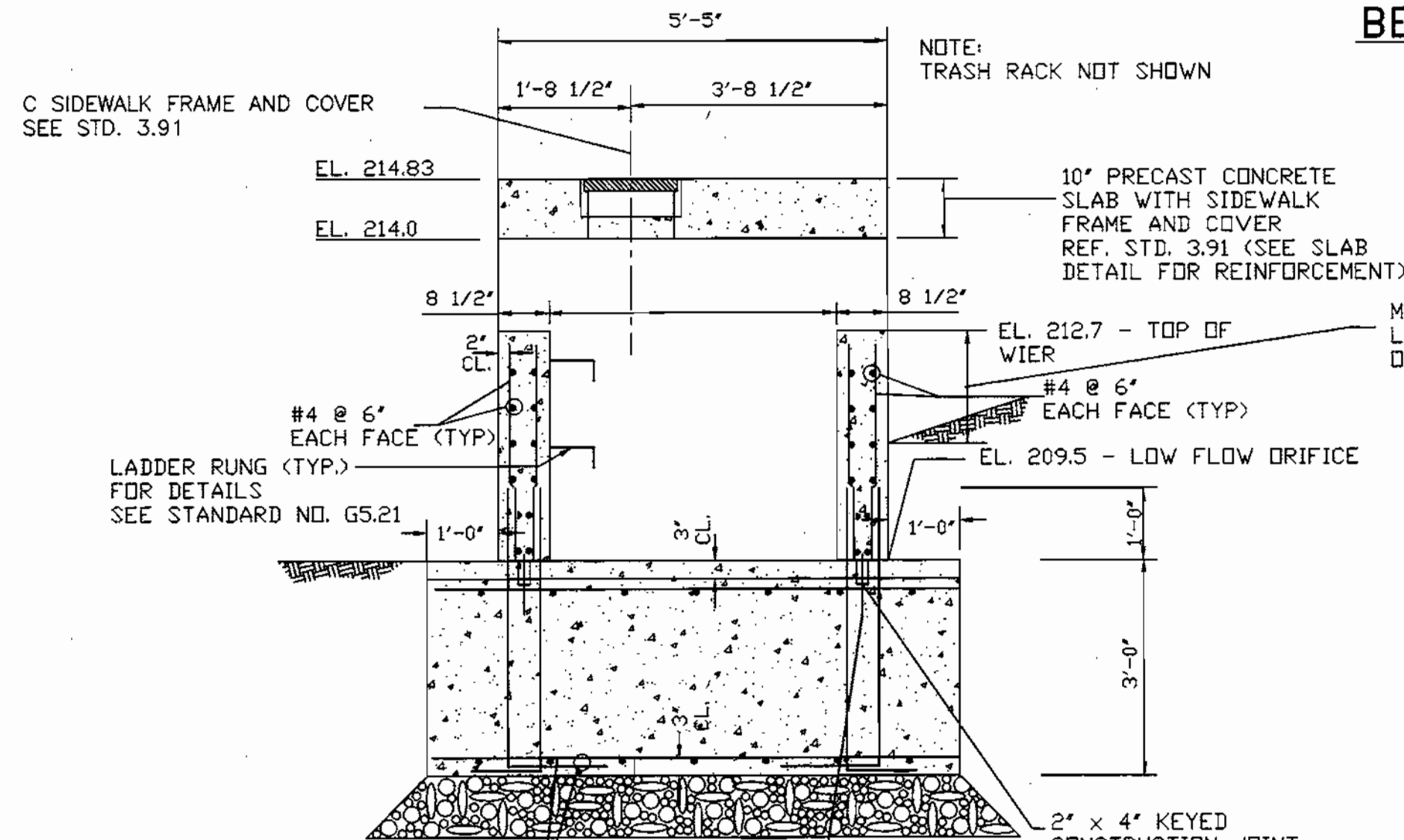
SECTION B-B
SCALE: 1/2" = 1'-0"



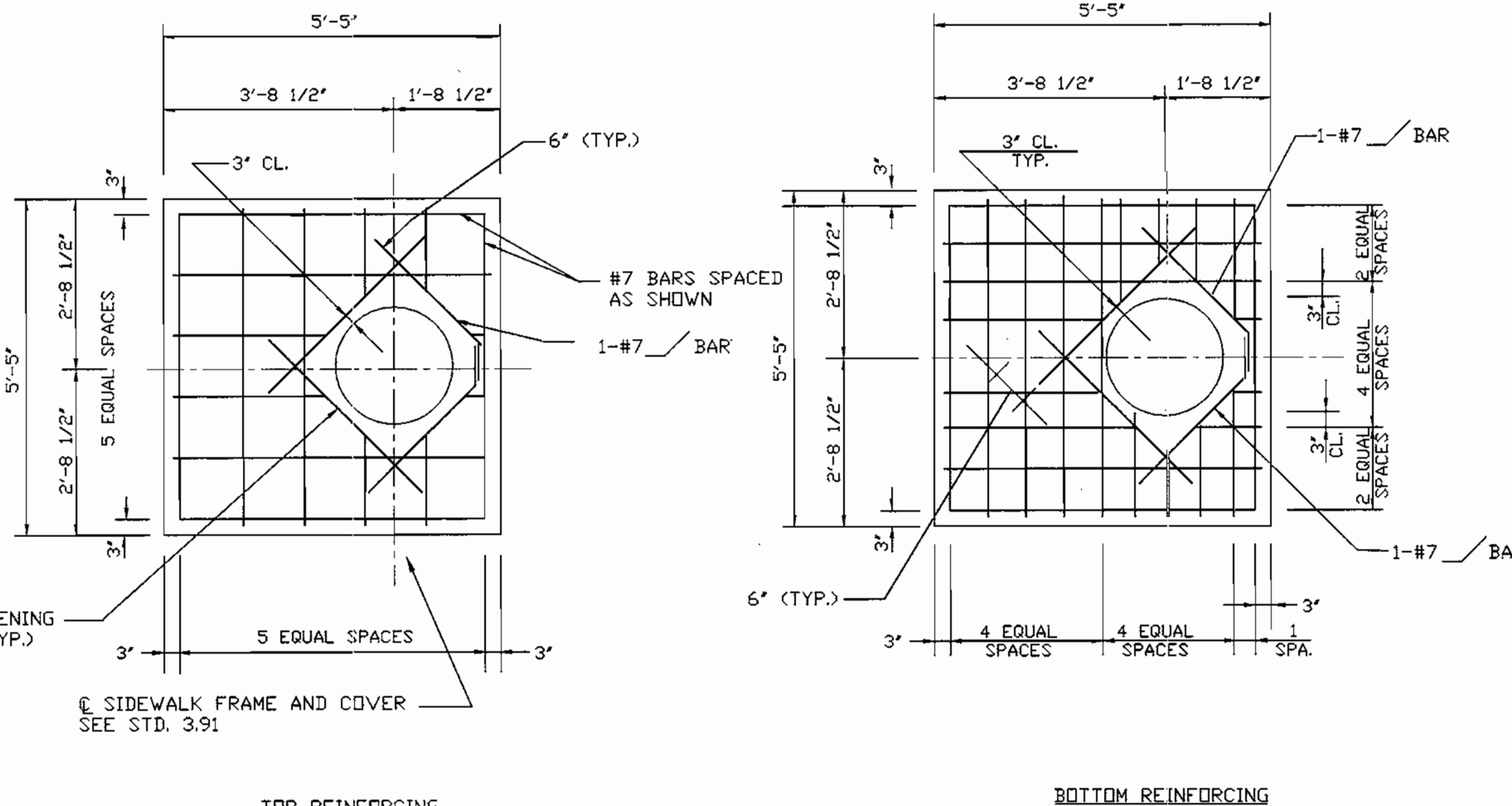
BEVEL RING DETAIL



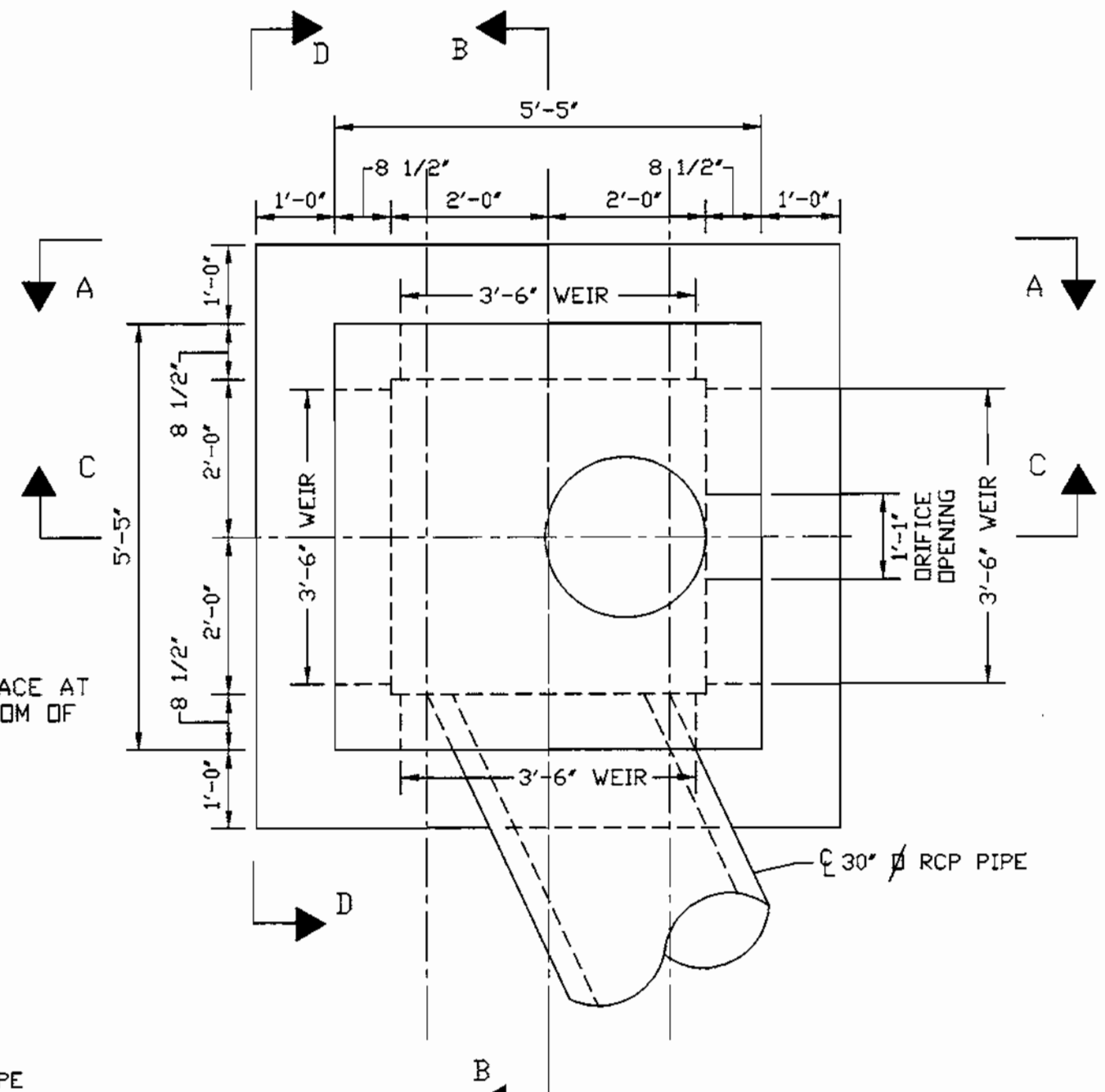
JOINT DETAIL



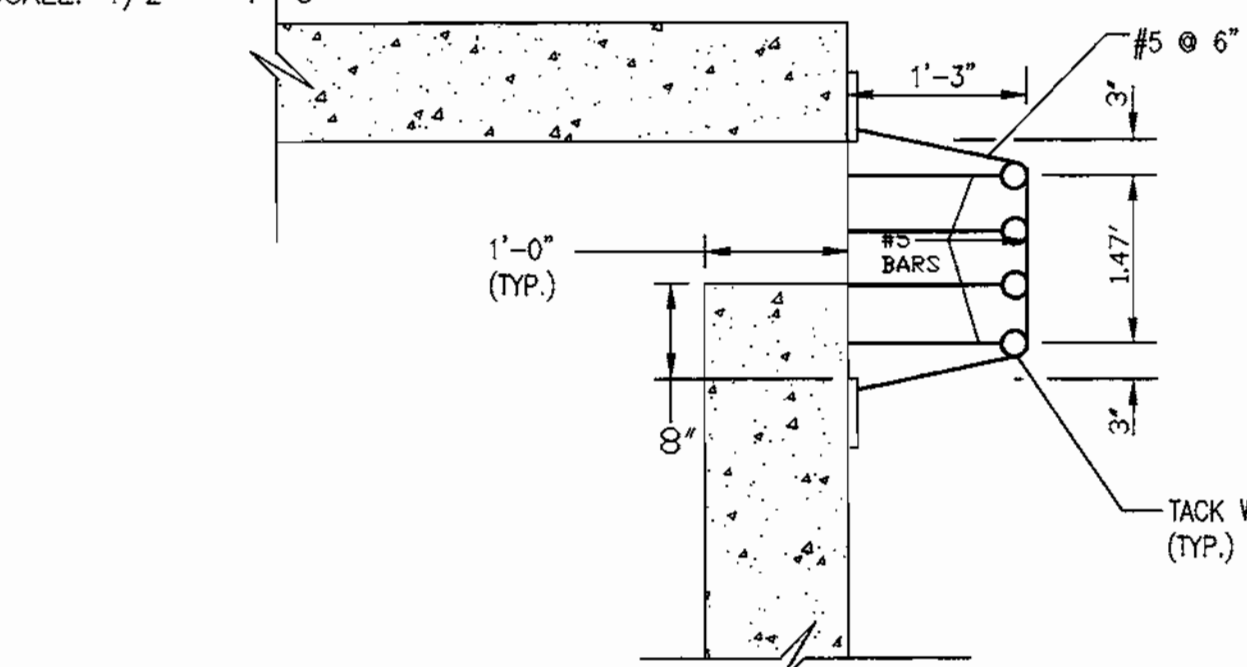
SECTION C-C
SCALE: 1/2" = 1'-0"



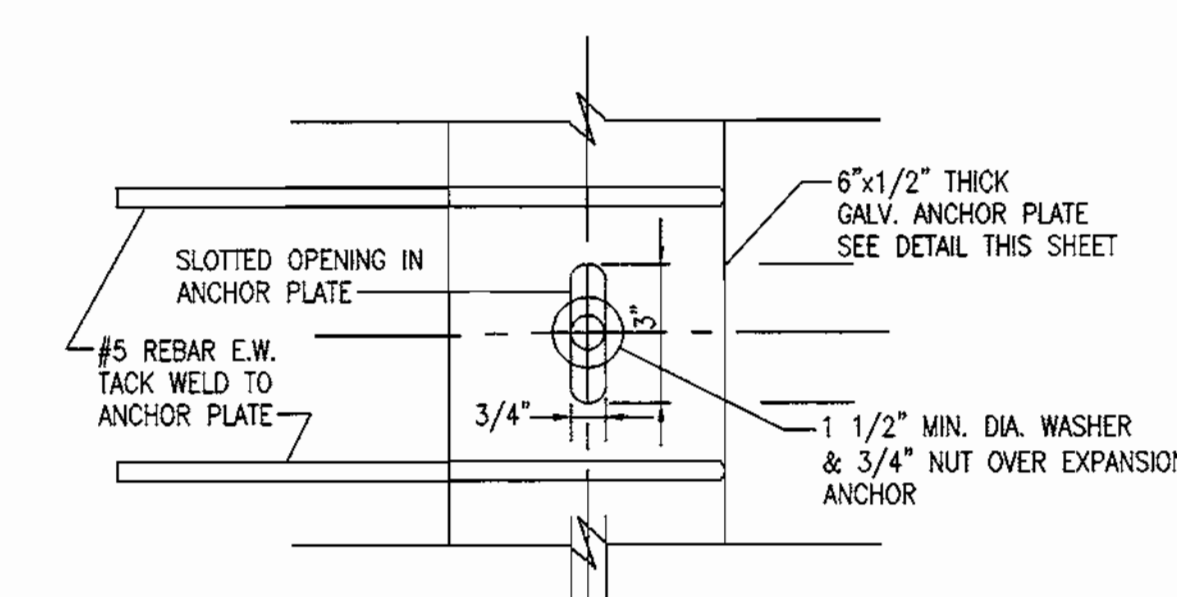
PRECAST CONCRETE SLAB
SCALE: 1/2" = 1'-0"



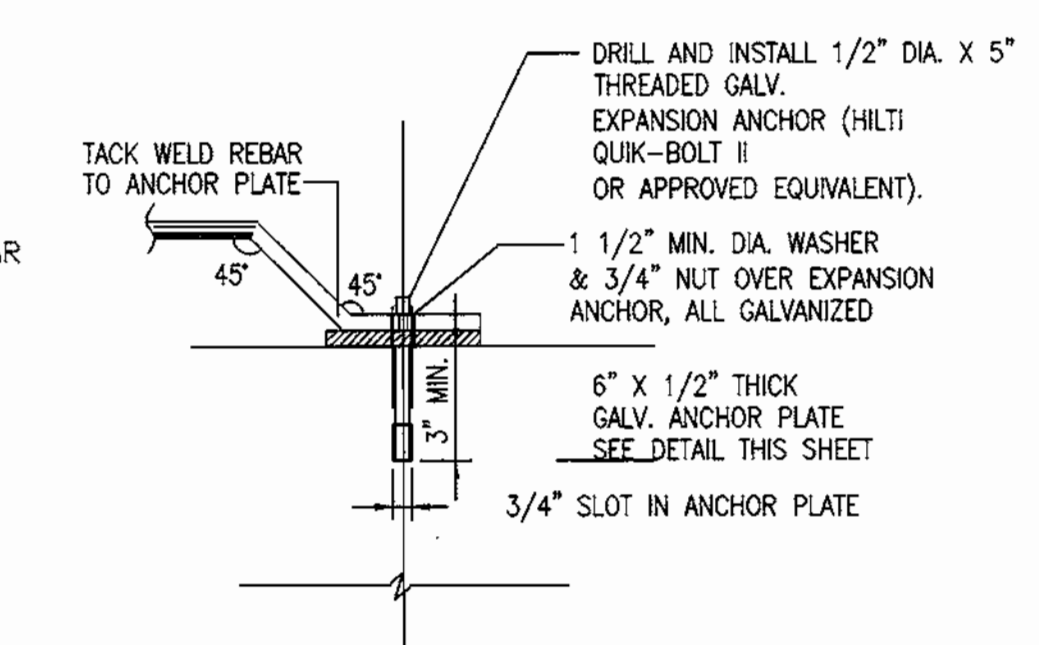
PLAN VIEW
SCALE: 1/2" = 1'-0"



WEIR TRASH RACK SIDE ELEVATION VIEW
SCALE: 3/4" = 1'-0"



ANCHOR PLATE DETAIL



TRASH RACK CONNECTION

OUTLET STRUCTURE NOTES

- THE STRUCTURE DETAILED IS CAST IN PLACE CONSTRUCTION IF THE CONTRACTOR ELECTS TO USE A PRECAST STRUCTURE. THE CONTRACTOR MUST MEET THE REQUIREMENTS OF THE "PRECAST CONCRETE RISER NOTE", BELOW
- CONCRETE TO BE MIX NO. 3 (4500 PSI.)
- ALL EXPOSED CORNERS OF CONCRETE STRUCTURE SHALL BE CHAMFERED WITH 3/4" X 3/4" MILLED CHAMFER STRIPS.
- REINFORCING: REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60
- MINIMUM COVER FOR REBARS SHALL BE 2" IN WALLS AND 3" IN BOTTOM UNLESS OTHERWISE NOTED.
- PIPE OPENINGS TO BE PROVIDED AS REQUIRED, FOR SIZE, LOCATION AND INVERT ELEVATIONS SPECIFIED
- LADDER RUNGS SHALL BE IN ACCORDANCE WITH STANDARD MD-383.91, AND MD-383.92 OR AS DIRECTED BY THE ENGINEER. PROVIDE LADDER RUNGS ON BOTH THE INSIDE AND OUTSIDE OF THE STRUCTURE.
- PROVIDE WATERTIGHT SEAL AROUND PIPES AT ALL OPENINGS. WATERSTOP SHALL BE VOLCLAY WATERSTOP - RX AS MADE BY AMERICAN COLLOID CO. OR APPROVED EQUIVALENT. PROVIDE WATERTIGHT SEAL AT ALL JOINTS. WATERSTOP SHALL BE DUMB BELL TYPE WATERSTOP 2" VINYLE, MODEL D6-316 MADE BY VINYLEX OR APPROVED EQUIVALENT.
- TRASH RACK SHALL BE GALVANIZED AFTER FABRICATION AND PAINTED WITH TWO COATS OF BATTLESHIP GREY PAINT.

PRECAST CONCRETE RISER NOTE

SHOP DRAWINGS FOR PRE-CAST CONCRETE RISERS WITH SUPPORTING STRUCTURE COMPUTATIONS (SIGNED AND SEALED BY A MARYLAND REGISTERED PROFESSIONAL ENGINEER) MEETING ASTM REQUIREMENTS FOR PRE-CAST STRUCTURES MUST BE SUBMITTED TO THE ENGINEER, AND THE APPROVING AGENCY FOR APPROVAL PRIOR TO FABRICATION.

THE SHOP DRAWINGS SHALL INCLUDE METHODS, MATERIALS, AND DETAILING OF WATER-TIGHT SEALS AT ALL CONSTRUCTION JOINTS AND AROUND ALL PIPES.

IF ANY STRUCTURE DIMENSIONS VARY FROM WHAT WAS ORIGINALLY REVIEWED/APPROVED, THEN THE HYDRAULICS, FLOTATION AND STRUCTURAL INTEGRITY SHALL BE RE-ANALYZED AND SUBMITTED FOR APPROVAL.

ENGINEER'S CERTIFICATE
I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with requirements of the Howard Soil Conservation District.
Michael A. Giovanniello 2/25/03
Signature of Engineer (Print name below signature) Date

DEVELOPER'S CERTIFICATE
I/We certify that all development and construction will be done according to this plan and that any responsible personnel involved in the construction project will have a certificate of Attendance at the Department of the Environment Approved Training Program for the Control of sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by Howard Soil Conservation District.
Michael A. Giovanniello 2/25/03
Signature of Developer (Print name below signature) Date

Reviewed for HOWARD SCD and meet Technical Requirements.
U.S.D.A. - Natural Resources Conservation Service
John J. Kelly 2/4/03
Date

The development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT
John J. Kelly 2/4/03
Date

THE SUBJECT PROPERTY IS ZONED M-2 PER THE 10-18-93 COMPREHENSIVE ZONING PLAN

Approved : Department of Planning and Zoning
David M. Leigen 2/16/03
Director Date

Andy Hammett 3/19/03
Chief, Division of Land Development Date

John J. Kelly 2/5/03
Chief, Development Engineering Date

SUBDIVISION NAME HOWARD COUNTY DETENTION CENTER		SECTION/AREA N/A	PARCEL NO. 660	
LIBER/FOLIO 2166/282	BLOCK NO 1009/368	ZONING M-2	TAX MAP 43	GRID NO 9
HOWARD CO. ELEC. DIST. NO-1		CENSUS TR. 6012.02		
WATER CODE B01		SEWER CODE 2221000		

PROPOSED IMPROVEMENTS
BUILDING ADDITION, SEE SITE ANALYSIS CHART FOR APPLICABLE DPZ FILE REFERENCE DPZ FILE REF. FOR CURRENT PROJECT SDP-02-20

REVISIONS

NO.	DATE	DESCRIPTION

STORMWATER MANAGEMENT DETAILS V

HOWARD COUNTY CENTRAL BOOKING & DISTRICT COURT COMMISSIONERS FACILITY
HOWARD COUNTY, MARYLAND

DATE : FEBRUARY 21, 2003

CAPITAL PROJECT NO.
 P - 4916

C-15

SET SHEET 15 OF 25

H:\PROJECTS\CIVIL\0121901\PROGRESSIVE\C-12.DWG

DEVELOPER'S/LANDOWNER'S CERTIFICATION
I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a Registered Professional Engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 day of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.
Michael A. Giovanniello 2/25/03
Print Name Date
MD. License No.

"AS-BUILT" CERTIFICATION
I hereby certify that the facility shown on this plan was constructed as shown on the "as-built" plans and meets the approved plans and specifications. I also certify that construction was inspected in accordance with the requirements of Howard County.
Signature Date
Print Name MD. License No.

Architects Engineers and Construction Consultants
8950 Route 108 Suite 218
Columbia Maryland 21045 (410)995-4067 Fax(410)992-1837



DCI CONSULTING ENGINEERING AND PLANNING
8950 Rt. 108 E., Suite 229 Columbia, MD. 21045
Phone: 410-995-0090 Fax: 410-992-7038

DANIEL CONSULTANTS, INC.

LEGEND:

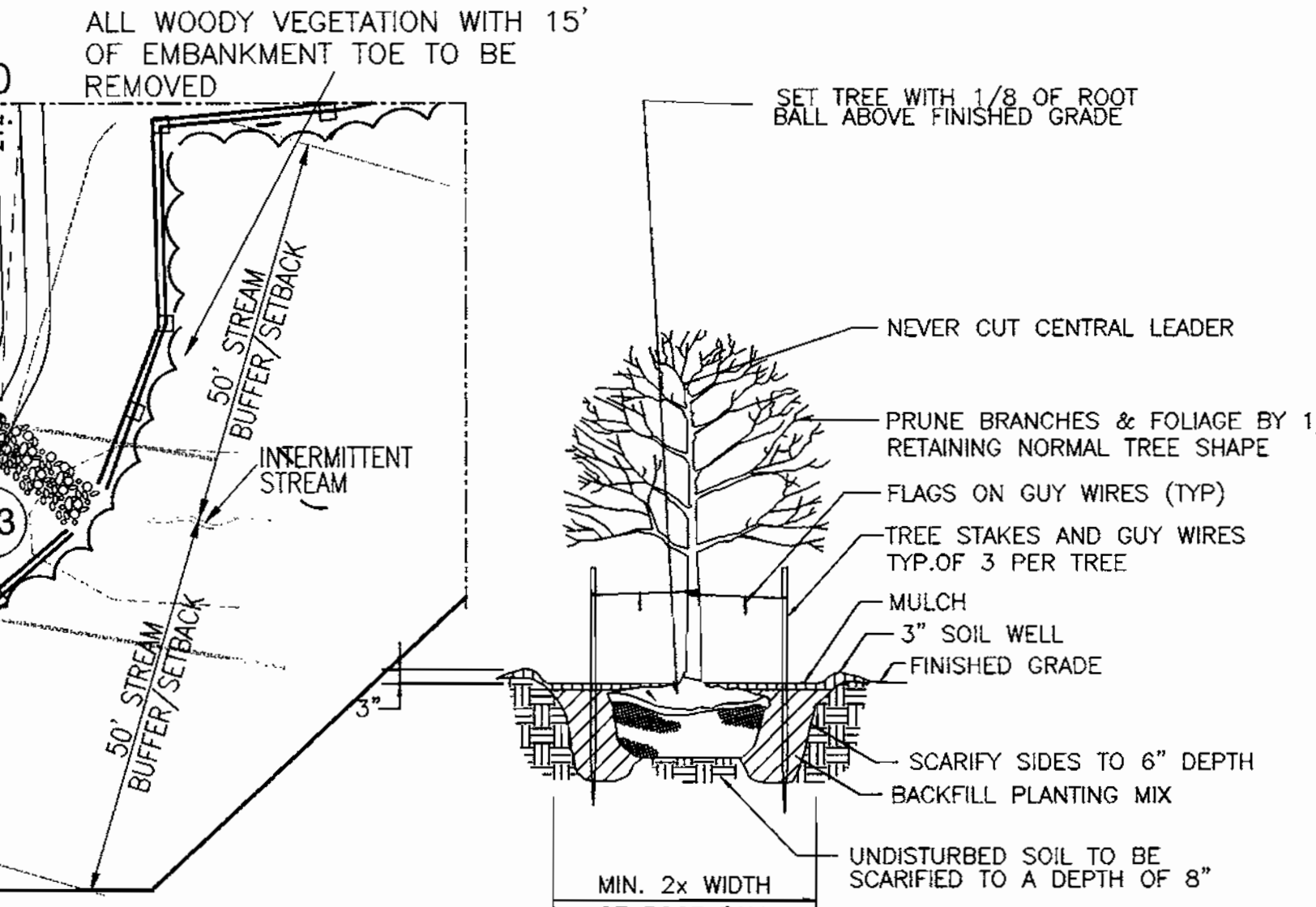
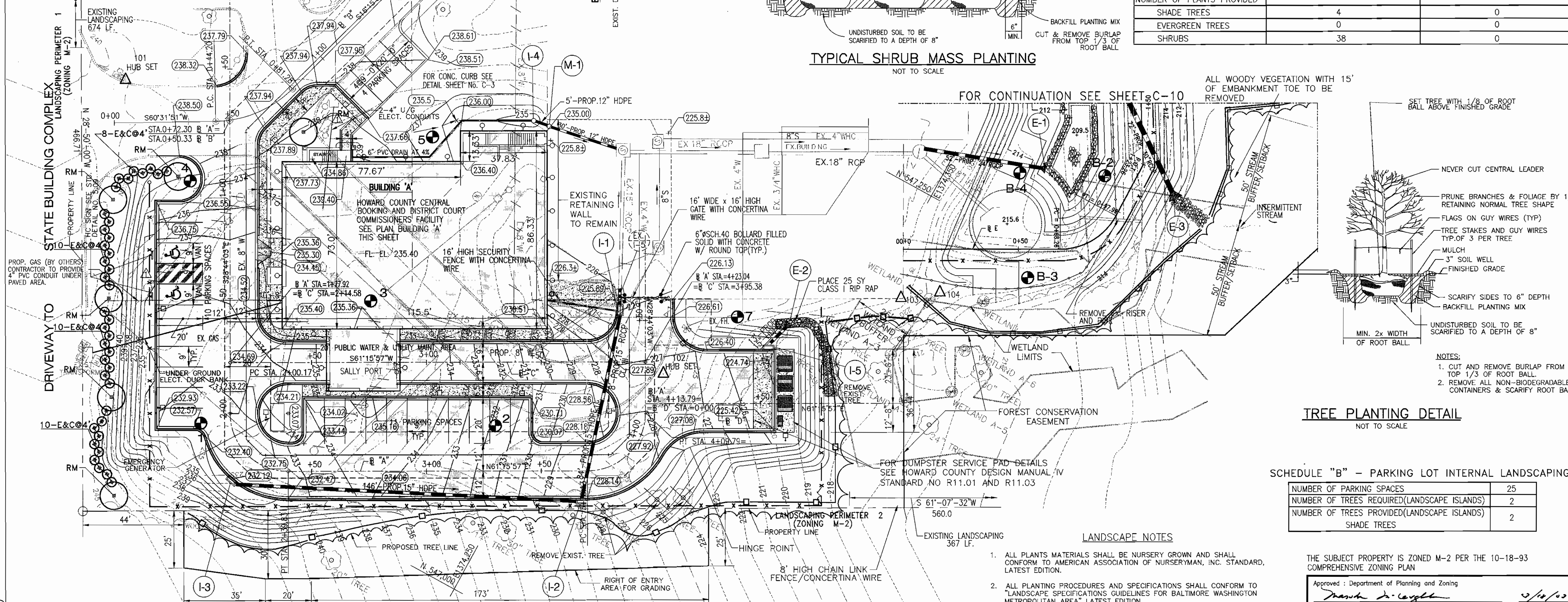
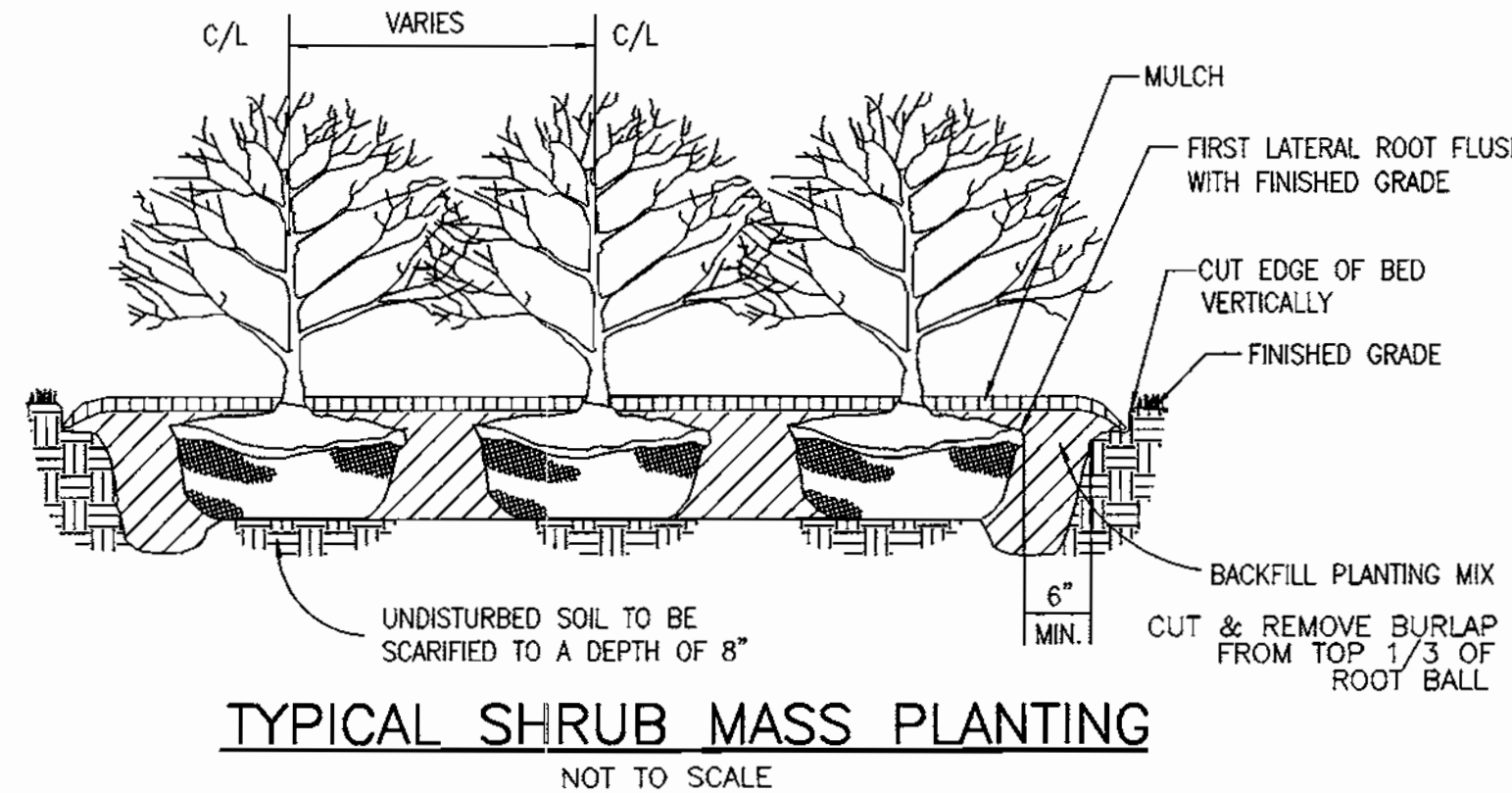
- EX. EDGE OF BRUSH/TREES
- EX. FENCE
- PROPOSED CURB AND GUTTER(SEE DETAIL SHEET C-3)
- PROPOSED P-3 PAVEMENT(SEE H.C. STD. R-2.01)
- PROPOSED SIDEWALK(SEE H.C. STD. R-3.05)
- 223.92 BOTTOM OF CURB AND SPOT ELEVATION
- 1 INDICATES SOIL BORING TAKEN FOR BOOKING FACILITY SHOWN ON SDP 91-107 DATED 5-6-91
- NEW FENCE
- TREE
- EXTERIOR POLE MOUNTED LIGHT FIXTURE
- EXTERIOR WALL PACK FIXTURE
- BLAZE ORANGE PLASTIC MESH TREE PROTECTION FENCE

LANDSCAPING PLANTING LIST

KEY	QUANTITY	COMMON NAME/BOTANICAL NAME	MIN. SIZE	ROOT	REMARKS
RM	6 EA.	RED SUNSET MAPLE / ACER RUBRUM "RED SUNSET"	2.5" CAL.	B&B	20' O.C.
E&C	38 EA.	BURNING BUSH/EUONYMUS ALATUS (COMPACTUS)	30"-36"	B&B	4' O.C.

SCHEDULE "A" - PERIMETER LANDSCAPE EDGE

CATEGORY LANDSCAPE TYPE	ADJACENT TO ROADWAYS	ADJACENT TO PROPERTY
	PERIMETER 1 TYPE "E"	PERIMETER 2 TYPE "A" (PROPERTY LINE)
LINEAR FEET OF ROADWAY FRONTAGE / PERIMETER	814	697
CREDIT FOR EXIST. VEGETATION (YES, NO, LINEAR FOOT) (DESCRIBED BELOW IF NEEDED)	YES (674 LF) (NET 140 LF)	YES (697 LF)
CREDIT FOR WALL, FENCE OR BERM	NO	NO
NUMBER OF PLANTS REQUIRED		
SHADE TREES	4	0
EVERGREEN TREES	0	0
SHRUBS	35	0
NUMBER OF PLANTS PROVIDED		
SHADE TREES	4	0
EVERGREEN TREES	0	0
SHRUBS	38	0



- NOTES:**
- CUT AND REMOVE BURLAP FROM TOP 1/3 OF ROOT BALL.
 - REMOVE ALL NON-BIODEGRADABLE CONTAINERS & SCARIFY ROOT BALL.

SCHEDULE "B" - PARKING LOT INTERNAL LANDSCAPING

NUMBER OF PARKING SPACES	25
NUMBER OF TREES REQUIRED(LANDSCAPE ISLANDS)	2
NUMBER OF TREES PROVIDED(LANDSCAPE ISLANDS)	2
SHADE TREES	2

LANDSCAPE NOTES

- ALL PLANTS MATERIALS SHALL BE NURSERY GROWN AND SHALL CONFORM TO AMERICAN ASSOCIATION OF NURSERYMAN, INC. STANDARD, LATEST EDITION.
- ALL PLANTING PROCEDURES AND SPECIFICATIONS SHALL CONFORM TO "LANDSCAPE SPECIFICATIONS GUIDELINES FOR BALTIMORE WASHINGTON METROPOLITAN AREA" LATEST EDITION.
- THE CONTRACTOR SHALL CONTACT "MISS UTILITY" FOR UNDERGROUND UTILITY LOCATIONS AT LEAST 72 HOURS PRIOR TO THE COMPLETION DATE.
- ALL PLANTS SHALL BE GUARANTEED BY THE CONTRACTOR FOR ONE YEAR FOLLOWING THE INSTALLATION COMPLETION DATE.
- AT THE TIME OF INSTALLMENT, ALL SHRUBS AND OTHER PLANTING HEREWITH LISTED AND APPROVED FOR THIS SITE, SHALL BE OF THE PROPER HEIGHT REQUIREMENTS IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL. IN ADDITION, NO SUBSTITUTIONS OR RELOCATION OF REQUIRED PLANTINGS MAY BE MADE WITHOUT PRIOR REVIEW AND APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING. ANY DEVIATION FROM THIS APPROVED LANDSCAPE PLAN MAY RESULT IN DENIAL OR DELAY IN THE RELEASE OF LANDSCAPE SURETY UNTIL SUCH TIME AS ALL REQUIRED MATERIALS ARE PLANTED AND/OR REVISIONS ARE MADE TO APPLICABLE PLANS AND CERTIFICATES.

THE SUBJECT PROPERTY IS ZONED M-2 PER THE 10-18-93 COMPREHENSIVE ZONING PLAN

Approved: Department of Planning and Zoning
 Director: *Thomas D. Layton* 3/12/03
 Chief, Division for Land Development: *Christy Hannah* 3/14/03
 Chief, Development Engineering Division: *John J. ...* 3/13/03

SUBDIVISION NAME	SECTION/AREA	PARCEL NO.
HOWARD COUNTY DETENTION CENTER	N/A	660
LIBER/FOLIO	BLOCK NO	TAX MAP GRID NO.
2116/282	9, 10 AND 15	43 9
1009/364		
WATER CODE	SEWER CODE	
801	2221000	

PROPOSED IMPROVEMENTS BUILDING ADDITION, SEE SITE ANALYSIS IS CHART FOR APPLICABLE DPZ FILE REFERENCE DPZ FILE REF. FOR CURRENT PROJECT SDP-02-20

DEVELOPER'S/BUILDER'S CERTIFICATE

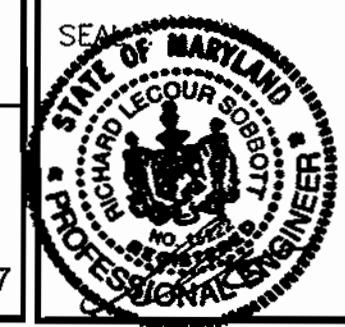
I/WE CERTIFY THAT THE LANDSCAPE PLANTING SHOWN ON THIS PLAN WILL BE DONE IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION, A CERTIFICATE OF LANDSCAPE INSTALLATION ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

Michael A. Giovanniello 3/12/03
 NAME Michael A. Giovanniello DATE 3/12/03

SITE PLAN
SCALE 1"=20'

H:\PROJECTS\CIVIL\0121901\PROGRESSIVE\C-16.DWG (C-15)

lati Architects Engineers and Construction Consultants
 8950 Route 108 Suite 218
 Columbia Maryland 21045 (410)995-4067 Fax(410)992-1837



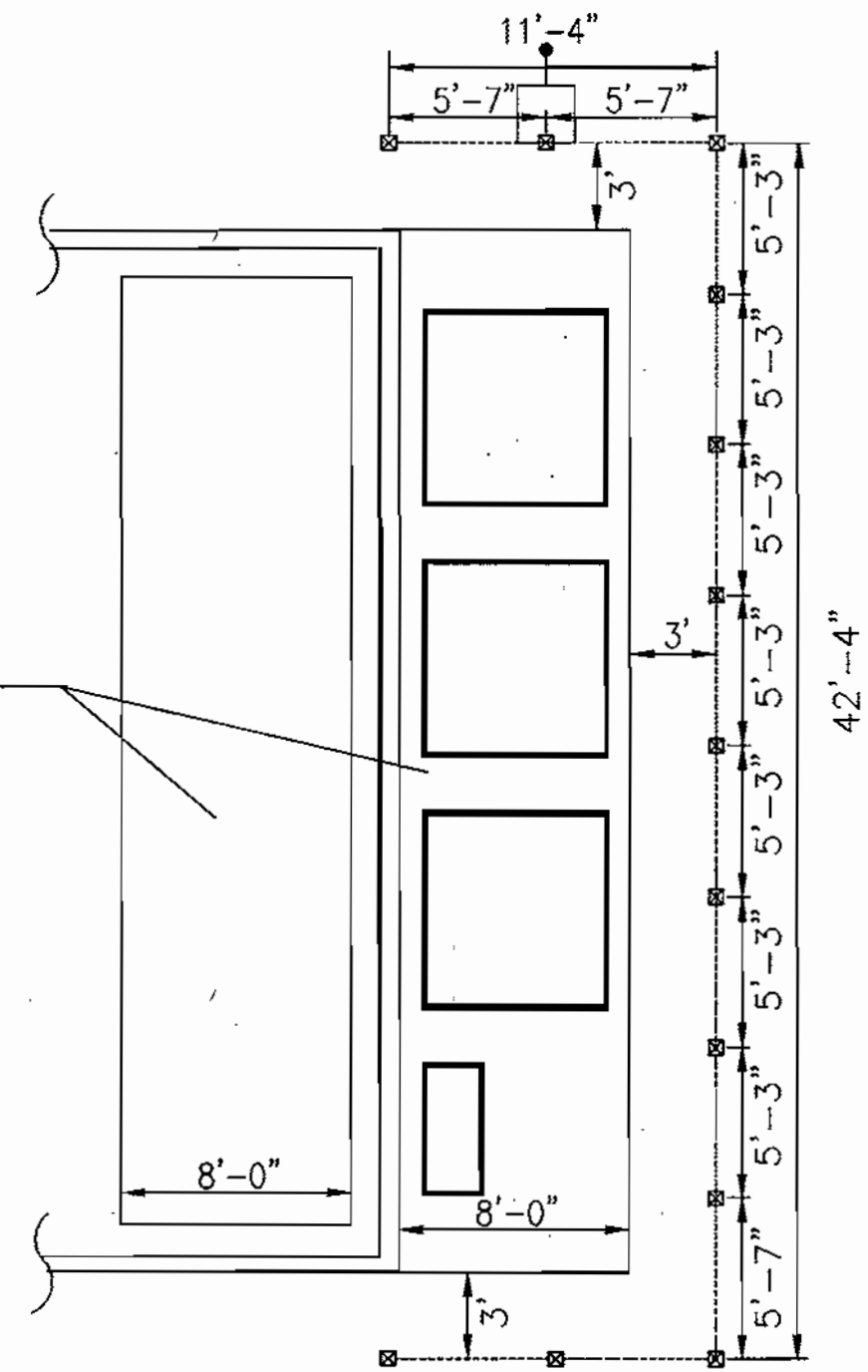
DCI CONSULTING ENGINEERING AND PLANNING
 8950 Rt. 108 E., Suite 229 Columbia, MD. 21045
 Phone: 410-995-0090 Fax: 410-992-7038

REVISIONS

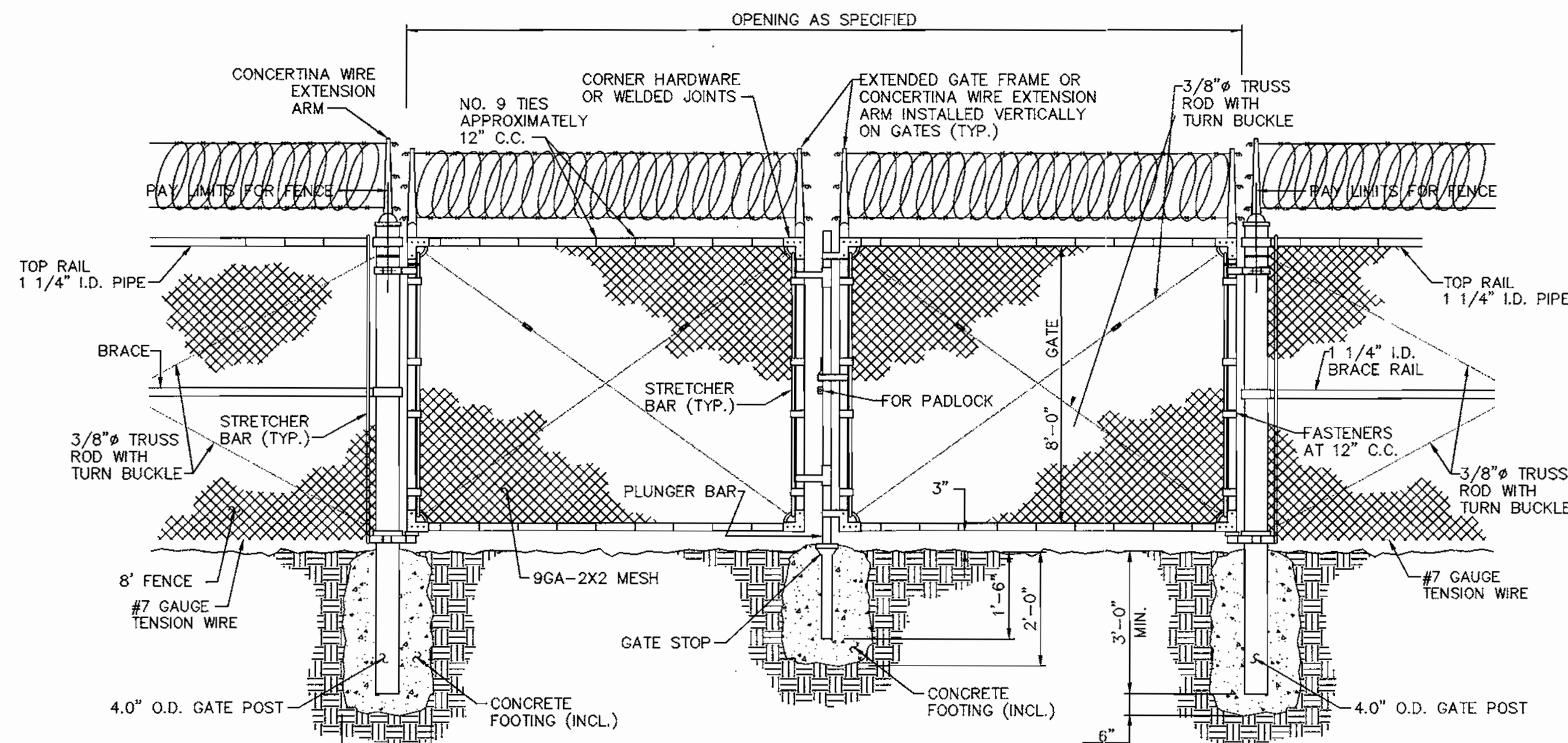
NO.	DATE	DESCRIPTION
1	3/12/03	ADDENDUM NO. 1

LANDSCAPING PLAN
 HOWARD COUNTY CENTRAL BOOKING & DISTRICT COURT COMMISSIONERS FACILITY
 HOWARD COUNTY, MARYLAND
 DATE: FEBRUARY 21, 2003
 CAPITAL PROJECT NO. P-4916
C-16
 SET SHEET 16 OF 25
 SDP-02-20

PROVIDE CONCRETE SLAB AS PER HOWARD CO. STANDARD R11.01

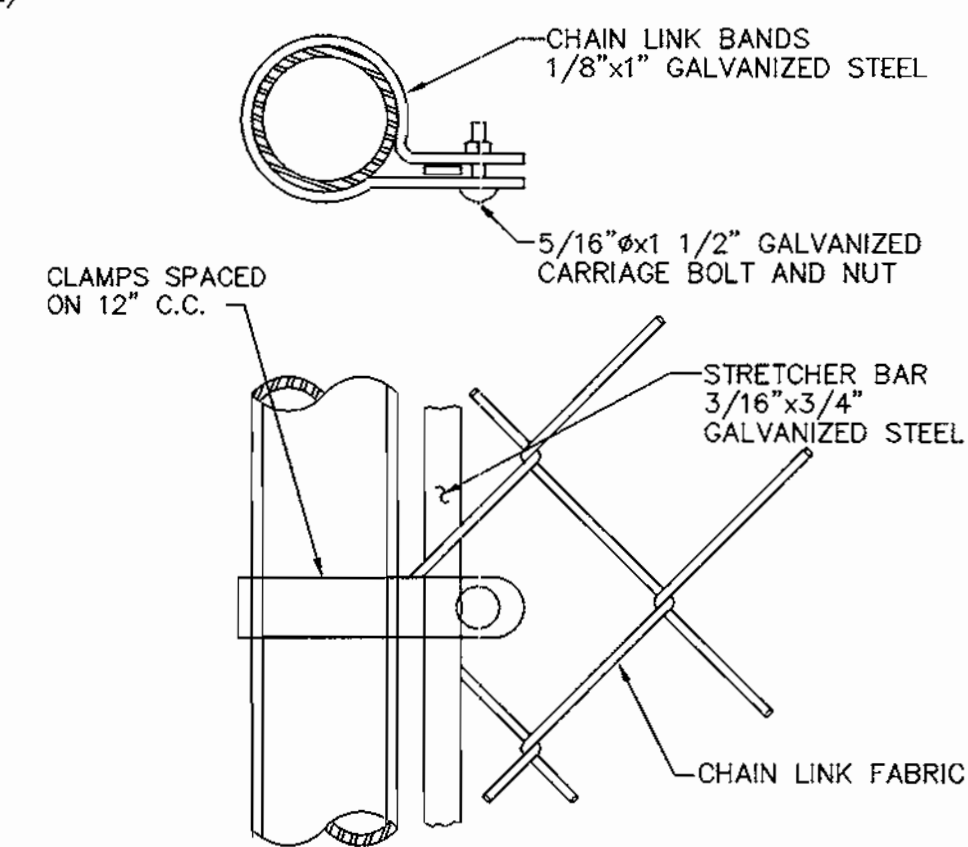


TRASH ENCLOSURE DETAIL (PLAN)
1" = 30'

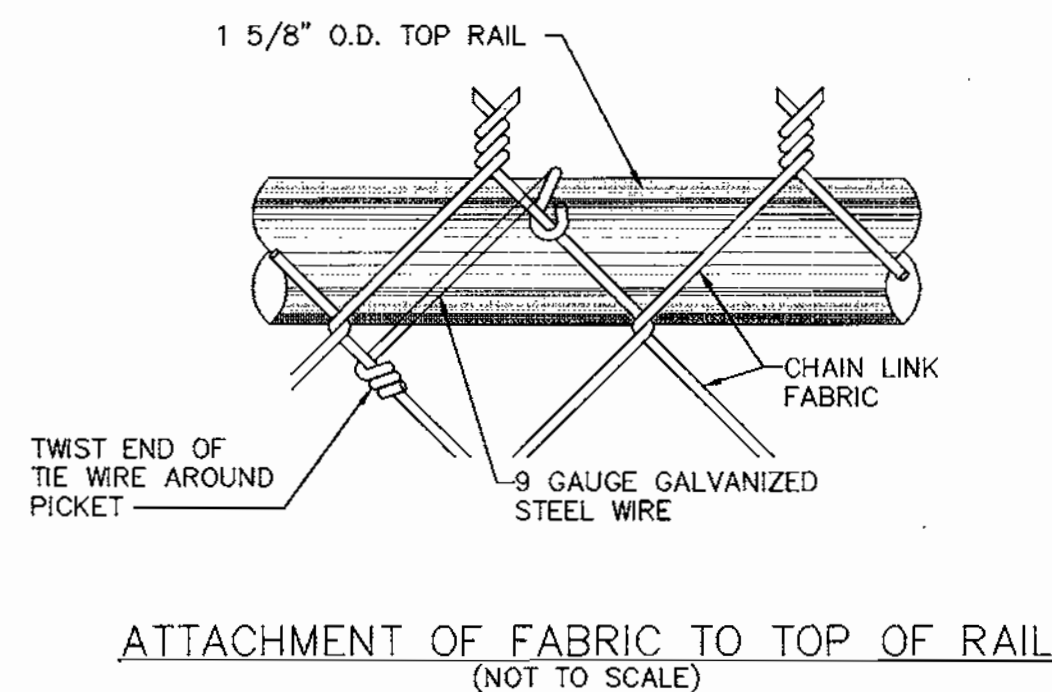


VEHICULAR GATE DETAIL
(NOT TO SCALE)

NOTE: GATE FRAME SHALL BE 1.90" SCHED. 40 PIPE PROVIDE FORKED TYPE LATCH W/ PAD LOCKED & CONCERTINA WIRE FENCE TOP.

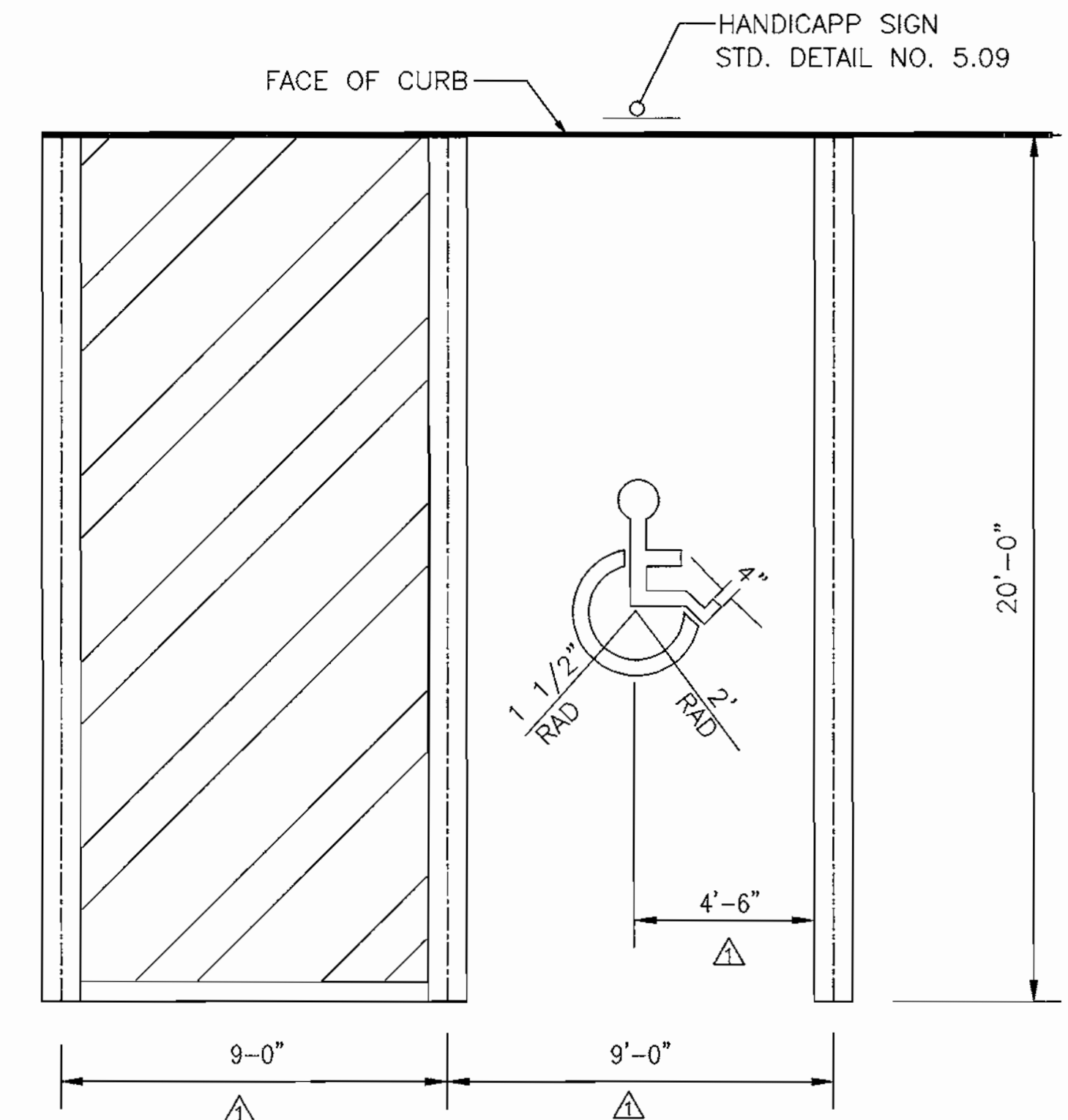


STRETCHER BAR ATTACHMENT
TERMINAL, END, AND CORNER POST CONNECTION
(NOT TO SCALE)

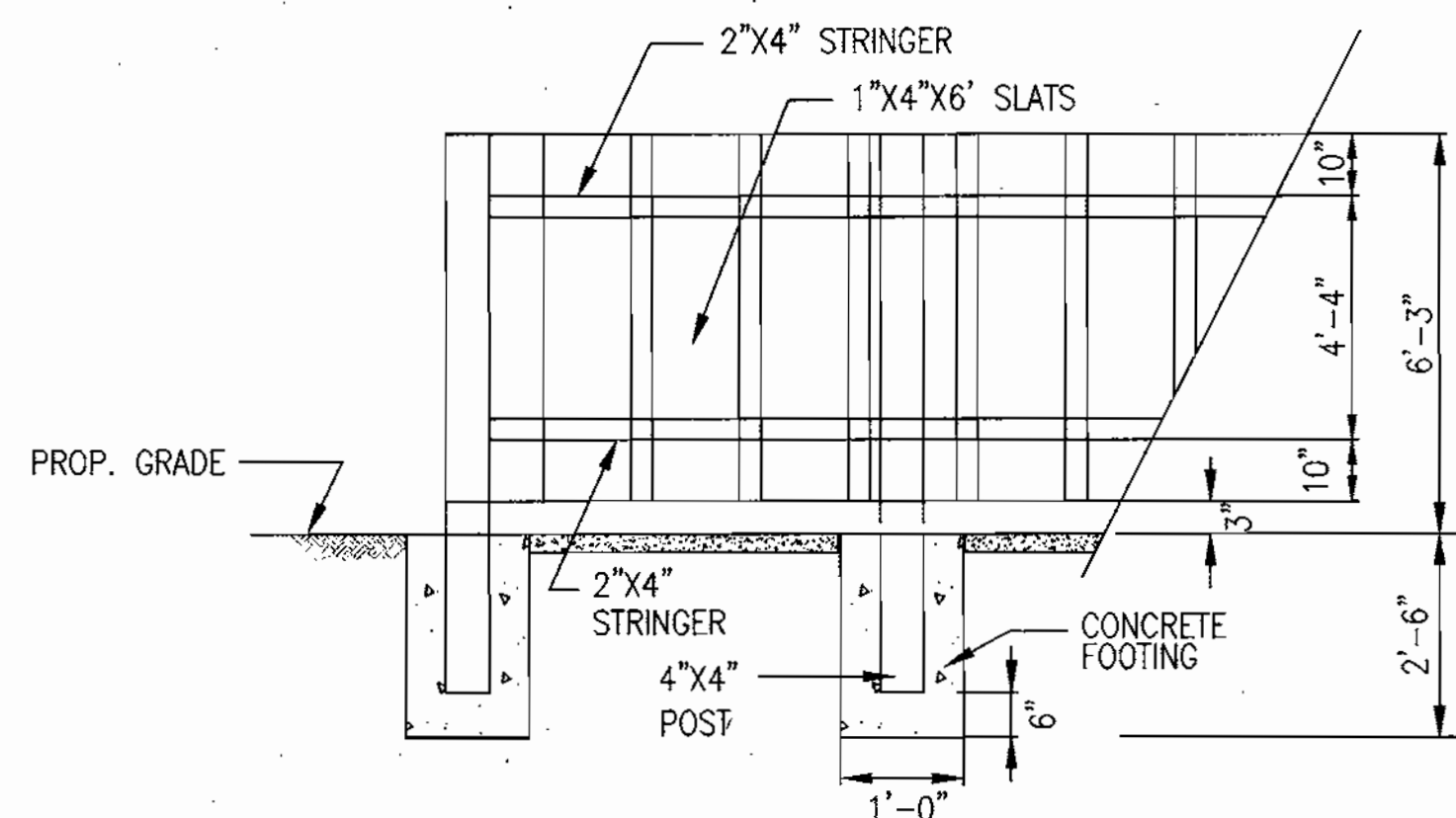


ATTACHMENT OF FABRIC TO TOP OF RAIL
(NOT TO SCALE)

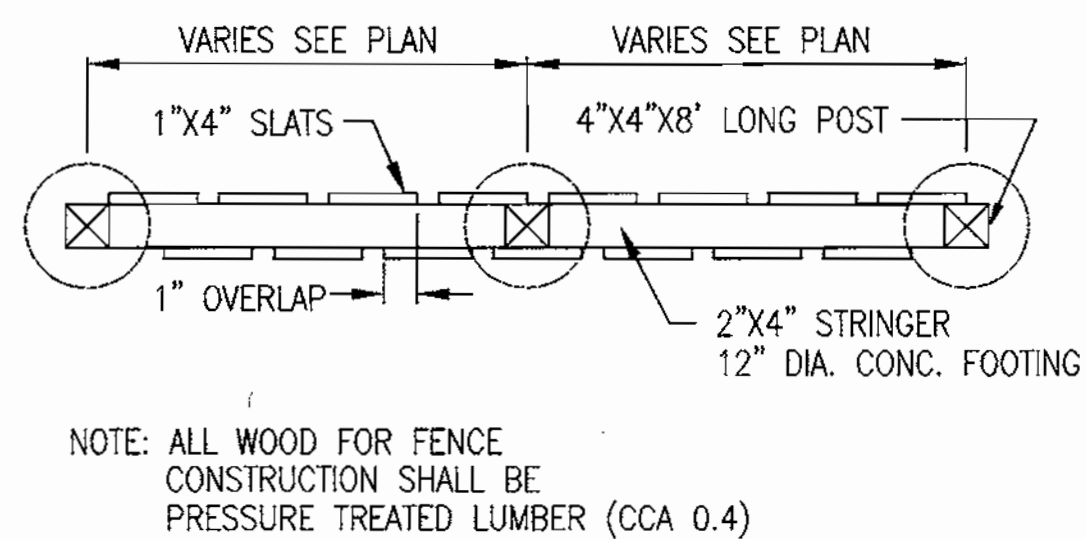
PAINT IS TO BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. (TWO (2) COATS REQUIRED) SYMBOLS AND BACKGROUND PER ADA REQUIREMENTS.



HANDICAPPED PARKING
DETAIL 9
NOT TO SCALE

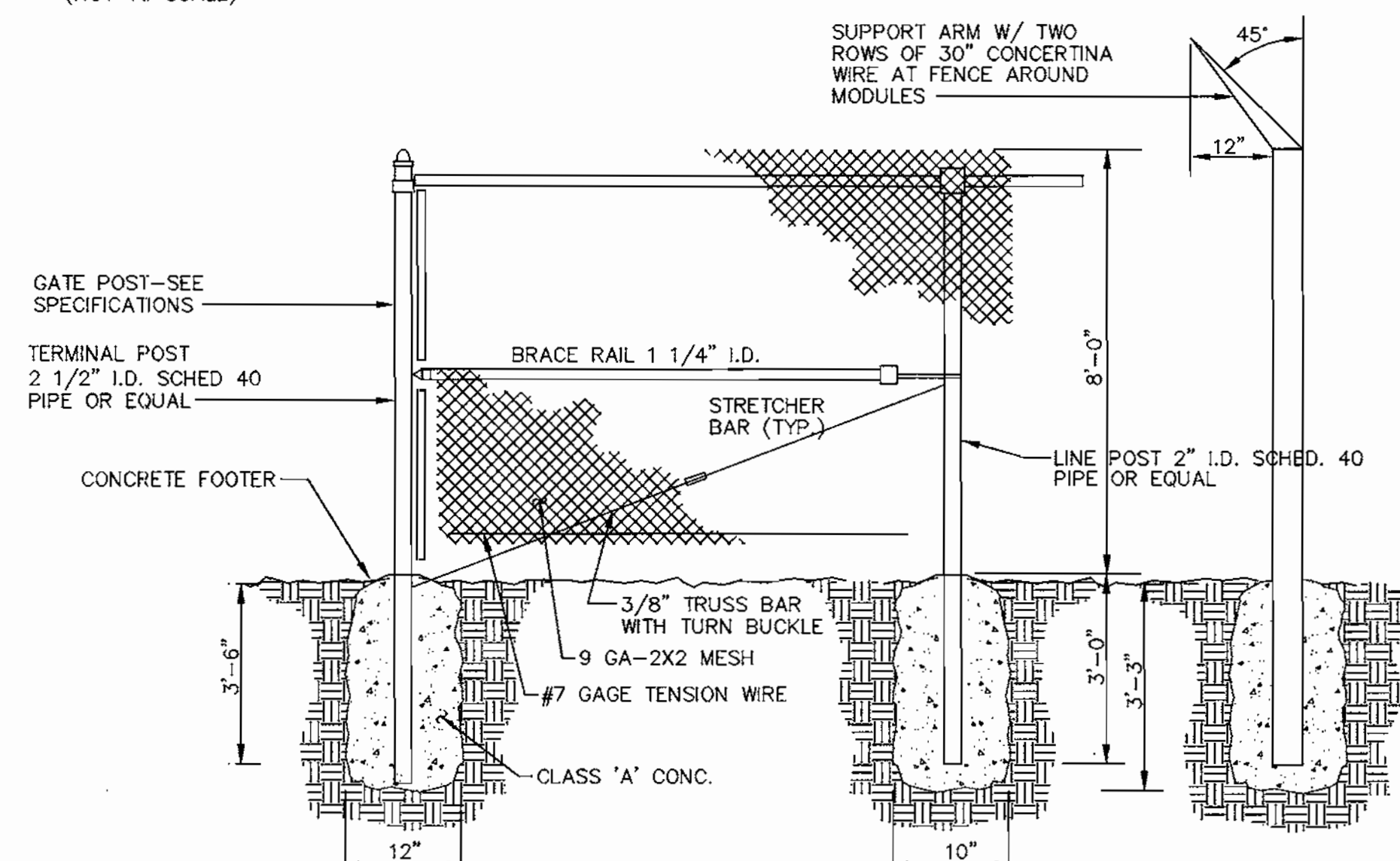


PARTIAL ELEVATION
TRASH ENCLOSURE DETAIL
DETAIL 4
NOT TO SCALE



NOTE: ALL WOOD FOR FENCE CONSTRUCTION SHALL BE PRESSURE TREATED LUMBER (CCA 0.4)

PLAN



CHAIN LINK FENCE DETAIL
(NOT TO SCALE)

THE SUBJECT PROPERTY IS ZONED M-2 PER THE 10-18-93 COMPREHENSIVE ZONING PLAN

Approved: Department of Planning and Zoning					
Director: <i>Thomas McLaughlin</i>					3/10/03
Chief, Division of Development: <i>Chris Hammett</i>					3/10/03
Chief, Development Engineering Division: <i>Chris Hammett</i>					3/10/03
SUBDIVISION NAME	SECTION/AREA	PARCEL NO.			
HOWARD COUNTY	N/A	660			
LIBER/FOLIO	BLOCK NO	ZONING	TAX MAP	GRID NO.	HOWARD CO. ELEC. DIST.
2116/282	9,10 AND 15	M-2	43	9	NO-1
1009/368					6012.02
1584/188-1					
WATER CODE	801			SEWER CODE	2221000
PROPOSED IMPROVEMENTS					
BUILDING ADDITION. SEE SITE ANALYSIS CHART FOR APPLICABLE DPZ FILE REFERENCE DPZ FILE REF. FOR CURRENT PROJECT SDP-02-20					

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lati Architects Engineers and Construction Consultants

8950 Route 108 Suite 218
Columbia Maryland 21045 (410)995-4067 Fax(410)992-1837



DCI CONSULTING ENGINEERING AND PLANNING
8950 Rt. 108 E., Suite 229 Columbia, MD. 21045
Phone: 410-995-0090 Fax: 410-992-7038

REVISIONS

NO.	DATE	DESCRIPTION
1	3/12/03	ADDENDUM NO. 1

SITE DETAILS

HOWARD COUNTY CENTRAL BOOKING & DISTRICT COURT COMMISSIONERS FACILITY
HOWARD COUNTY, MARYLAND

DATE: FEBRUARY 21, 2003

CAPITAL PROJECT NO.

P - 4916

C-17

SET SHEET 17 OF 25

SDP-02-20

LEGEND:

- EX. WOODS LINE
- EX. CONTOUR LINE
- PROP. CONTOUR LINE
- CURB LINE
- CENTER LINE
- EX. FENCE
- SILT FENCE
- SSF
- RSP
- CIP
- AGIP
- SUPER SILT FENCE
- LIMIT OF DISTURBANCE
- REMOVABLE PUMPING STATION
- CURB INLET PROTECTION
- AT-GRADE INLET PROTECTION
- STABILIZED CONST. ENTRANCE

CONTRACTOR NOTE:

- EROSION AND SEDIMENT CONTROL WILL BE STRICTLY ENFORCED
- FOR CONSTRUCTION PHASING SEQUENCE, SEE SHEET C-5 & C-6

STORAGE CAPACITY			
ELEV.(FT)	AREA(SF)	INCREMENTAL VOL.(CF)	CUMULATIVE VOL.(CF)
209.5	4260		
210.0	4780	2260	2260
211.0	5775	5278	7538
211.5	6333	3027	10565
212.0	6890	3306	13871
212.9	8100	6746	20617

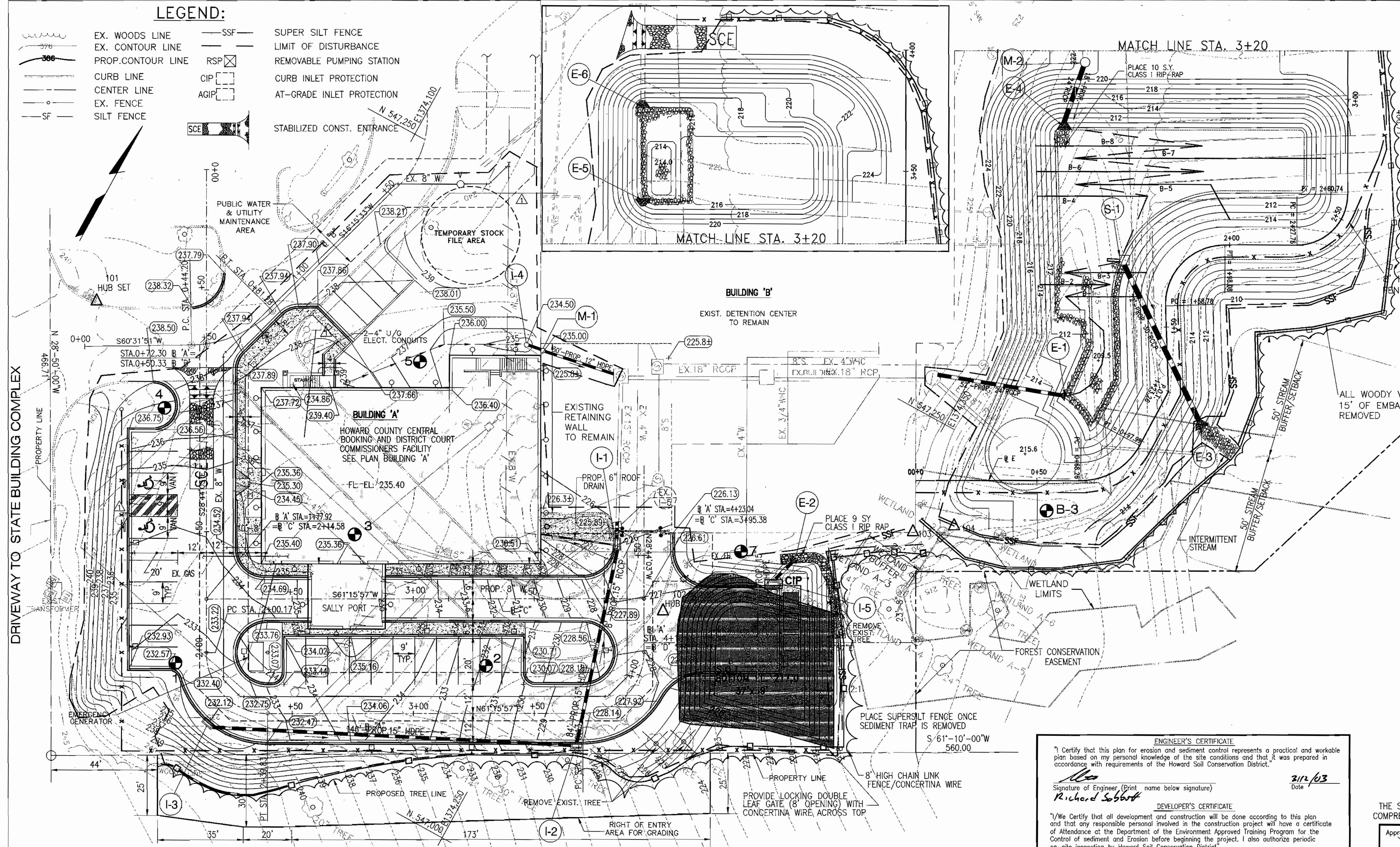
WET STORAGE 209.5 TO 211.5
 DRY STORAGE 211.5 TO 212.9

THE WEIR OPENING INVERT SHALL BE TEMPORARILY RAISED TO ELEVATION 212.9

BAFFLE LENGTHS	
B-1	31'
B-2	29'
B-3	34'
B-4	46'
B-5	73'
B-6	69'
B-7	104'
B-8	69'

STONE OUTLET TRAP ST. 11 NO. 1	
DRAINAGE AREA	1.60 ACRES
STORAGE REQUIRED	5760 CU. FT.
EXISTING OUTLET ELEVATION	218.80
TRAP BOTTOM ELEVATION	217.00
TRAP BOTTOM DIMENSIONS	37' x 39'
STORAGE PROVIDED	5800 CU. FT.
WEIR CREST(DRY STORAGE) ELEV.	218.80
OUTLET(WET STORAGE)ELEVATION	218.10
CLEANOUT ELEVATION	217.50
EMBANKMENT HEIGHT	0.00
SIDE SLOPE	2 : 1
WEIR LENGTH	8'
WET STORAGE ZONE	217-218.1
DRY STORAGE ZONE	218.1-218.8

SEDIMENT BASIN No.1	
DRAINAGE AREA	5.60 ACRES
STORAGE REQUIRED	20160 CU. FT.
EXISTING OUTLET ELEVATION	209.50
TRAP BOTTOM ELEVATION	209.5
TRAP BOTTOM DIMENSIONS	4085
STORAGE PROVIDED	20617 CU. FT.
WEIR CREST(DRY STORAGE) ELEV.	212.9
OUTLET(WET STORAGE)ELEVATION	211.5
CLEANOUT ELEVATION	210.5
EMBANKMENT HEIGHT	7.50
SIDE SLOPE	3:1/2:1
WET STORAGE ZONE	209.5-211.5
DRY STORAGE ZONE	211.5-212.9
EXISTING "Q2"	14.5 CFS
PROPOSED "Q2"	10.0 CFS



DRIVEWAY TO STATE BUILDING COMPLEX

SITE PLAN
SCALE 1"=20'

E&S SEQUENCE OF OPERATION	ESTIMATED TIME*
1. OBTAIN GRADING AND MDE PERMITS. INSTALL SCE IN THE BUILDING AND PARKING LOT ADDITION AREAS AS SHOWN ON THE PLAN.	1/2 DAY
2. INSTALL TREE PROTECTION FENCE AND SIGNS(75' O.C.) AT THE LIMIT OF TREE REMOVAL IN THE BASIN AND PARKING LOT ADDITION AREAS. COORDINATE WITH FOREST CONSERVATION PLAN.	1-1/2 DAY
3. INSTALL PERIMETER SEDIMENT CONTROLS AND SEDIMENT BASIN IN THE POND AND SEDIMENT TRAP IN PARKING LOT ADDITION AREAS AS SHOWN ON THE PLAN.	2 DAYS
4. INSTALL STABILIZED CONSTRUCTION ENTRANCE IN THE SEDIMENT BASIN AREA AS SHOWN ON THE PLAN.	1/2 DAY

E&S SEQUENCE OF OPERATION	ESTIMATED TIME*
5. AFTER ALL BASIN/POND MATERIALS ARE ON SITE AND INSPECTOR PROVIDES PERMISSION TO PROCEED, REMOVE EXISTING RISER STRUCTURE.	1 DAY
6. UPON THE START OF A 5-DAY CLEAR(NON-PRECIPIATION) WEATHER FORECAST FROM THE NATIONAL WEATHER SERVICE AND PERMISSION OF THE INSPECTOR, GRADE BASIN AND INSTALL OUTLET STRUCTURE, SEDIMENT BASIN DRAW DOWN DEVICE AND STORMDRAIN PIPE. STABILIZE DISTURBED AREAS WITH PERMANENT VEGETATION AS SOON AS POSSIBLE.	1 MONTH
7. COMPLETE PHASE 2 THRU PHASE 4 WORK AS DESCRIBED ON SHEETS C-5 & C-6. STABILIZED DISTURBED AREAS WITH STABILIZED DISTURBED AREAS WITH VEGETATION OR GRAVEL BASE COURSE AS SOON AS POSSIBLE.	9 MONTHS

E&S SEQUENCE OF OPERATION	TIME*
8. CONSTRUCT FINAL POND GRADING AND INFILTRATION BASIN WITH APPROVAL OF E & S INSPECTOR, REMOVE ALL REMAINING SEDIMENT CONTROL DEVICES.	1 WEEK
9. RESTABILIZED ALL AREAS OF REDISTURBANCE.	1 WEEK
10. PROVIDE POND AS BUILT TO HOWARD CO. SCD AND CID	1 WEEK

* ESTIMATED TIME NOT TO BE USED FOR ANY PROJECT SCHEDULING PURPOSES.

ENGINEER'S CERTIFICATE
 I Certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with requirements of the Howard Soil Conservation District.

Signature of Engineer (Print name below signature) *Richard Sobott* Date *2/12/03*

DEVELOPER'S CERTIFICATE
 I/We Certify that all development and construction will be done according to this plan and that any responsible personal involved in the construction project will have a certificate of Attendance at the Department of the Environment Approved Training Program for the Control of sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by Howard Soil Conservation District.

Signature of Developer (Print name below signature) *Michael A. Savanillo* Date *2/12/03*

Reviewed for HOWARD SCD and meet Technical Requirements. *Jim Nye/CA* Date *3/13/03*

U.S.D.A. - Natural Resources Conservation Service

The development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT. *Jeffery S. Kelly* Date *3/13/03*

Howard SCD

THE SUBJECT PROPERTY IS ZONED M-2 PER THE 10-18-93 COMPREHENSIVE ZONING PLAN

Approved : Department of Planning and Zoning

Director *Frank DeLeger* Date *2/12/03*

Chief, Division of Development *Wendy Krametz* Date *2/11/03*

Chief, Development Engineering Division *Michael A. Savanillo* Date *2/12/03*

SUBDIVISION NAME HOWARD COUNTY DETENTION CENTER	SECTION/AREA N/A	PARCEL NO. 660
LIBER/FOLIO 2116/282	BLOCK NO 9, 10 AND 15	ZONING M-2
TAX MAP 1009/388	TAX MAP 43	GRID NO. 9
HOWARD CO. ELEC. DIST. NO-1	CENSUS TR. 6012.02	SEWER CODE 2221000

PROPOSED IMPROVEMENTS
 BUILDING ADDITION, SEE SITE ANALYSIS CHART FOR APPLICABLE DPZ FILE REFERENCE DPZ FILE REF. FOR CURRENT PROJECT SDP-02-20

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Architects Engineers and Construction Consultants
 8950 Route 108 Suite 218
 Columbia Maryland 21045 (410)995-4067 Fax(410)992-1837



DCI CONSULTING ENGINEERING AND PLANNING
 8950 Rt. 108 E., Suite 229 Columbia, MD. 21045
 Phone: 410-995-0090 Fax: 410-992-7038

REVISIONS	
NO.	DATE
1	3/12/03
DESCRIPTION ADDENDUM NO. 1	

EROSION AND SEDIMENT CONTROL PLAN
 HOWARD COUNTY CENTRAL BOOKING & DISTRICT COURT COMMISSIONERS FACILITY
 HOWARD COUNTY, MARYLAND

DATE : FEBRUARY 21, 2003

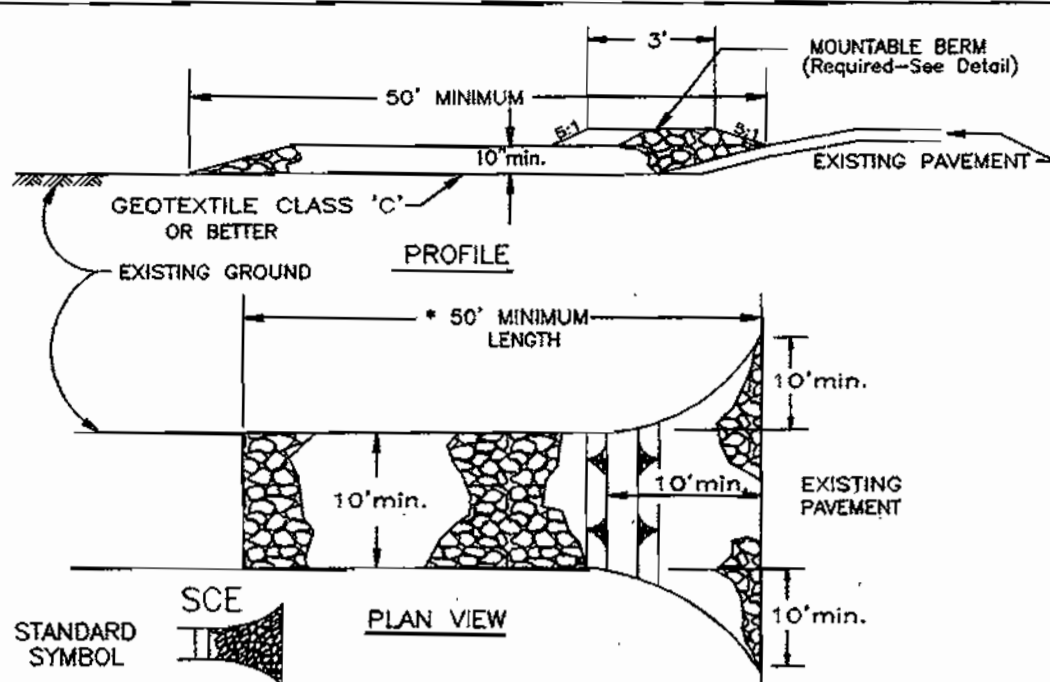
CAPITAL PROJECT NO. P - 4916

C-18

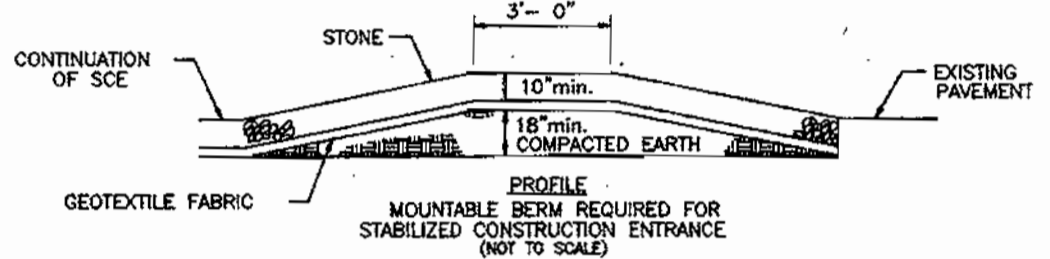
SET SHEET 18 OF 25

SDP-02-20

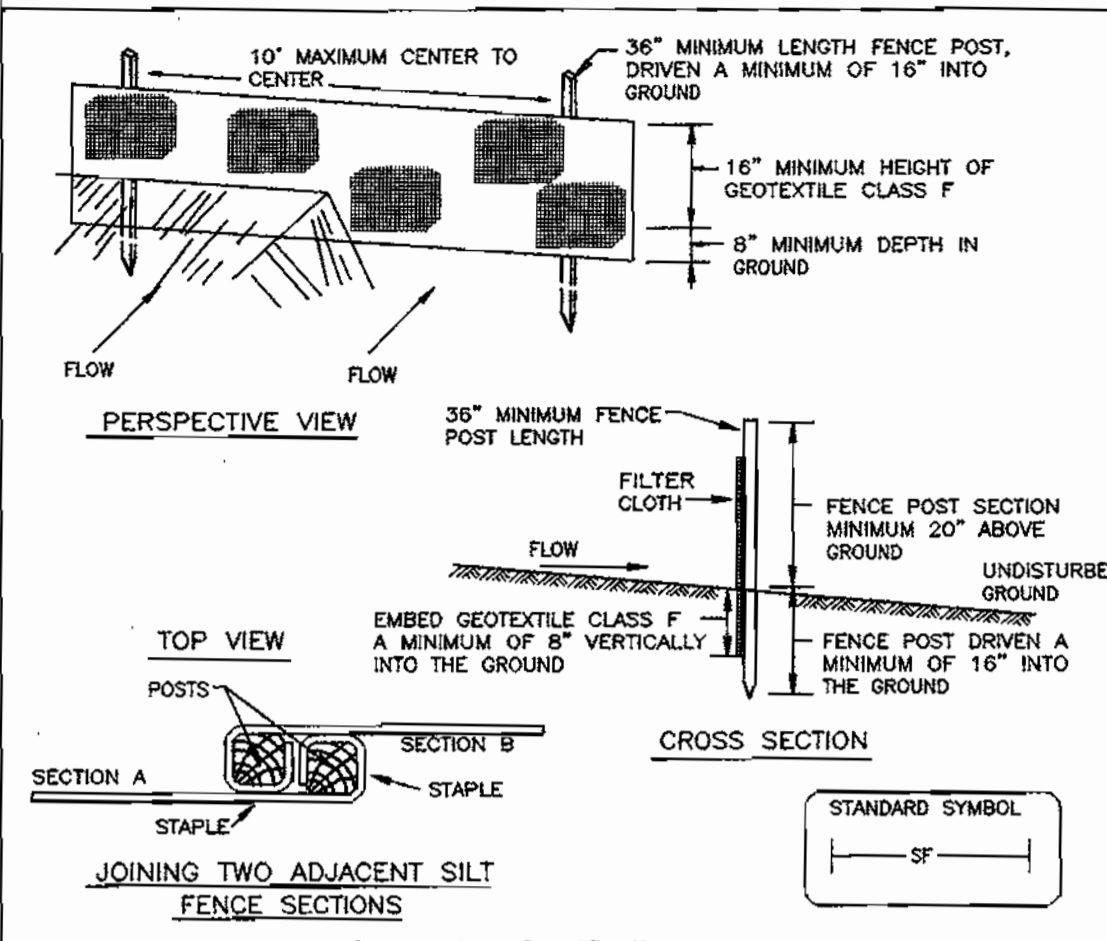
HEAVY DUTY STABILIZED CONSTRUCTION ENTRANCE - not to scale



- CONSTRUCTION SPECIFICATIONS**
- Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent.
 - Length - As required, but not less than 50 feet (except on single ridge lot where a 30 foot minimum length will apply).
 - Thickness - not less than ten (10) inches.
 - Width - Ten (10) foot minimum, but not less than the full width at points where ingress and egress occurs.
 - Geotextile fabric class "C" or better shall be placed over the existing ground prior to placing of stone. Geotextile fabric will not be required on a single family residential lot.
 - A mounatable berm with 5:1 slopes is required for all surface water flowing or diverted towards construction entrance.
 - Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public right-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment applied, dropped, washed or tracked onto public right-of-way must be removed immediately.
 - Washing - Wheels must be cleaned to remove sediment prior to entrance onto public right-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
 - Periodic inspection and needed maintenance shall be provided after each rain.



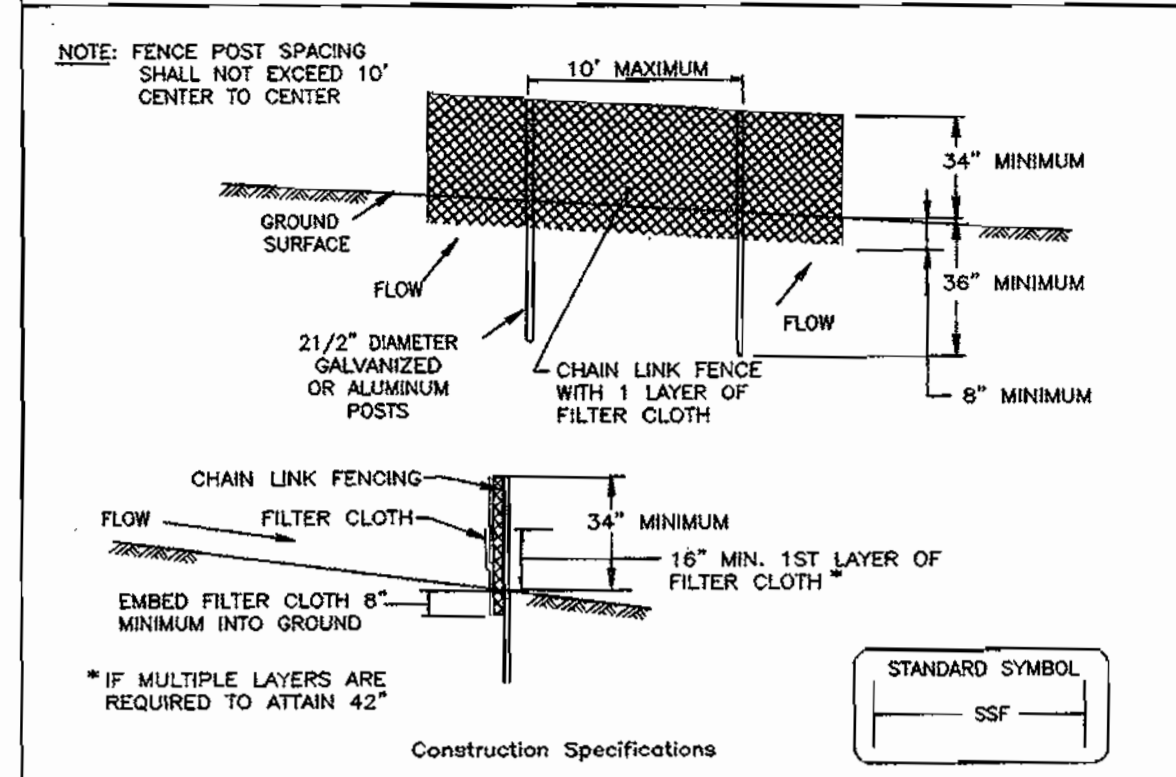
DETAIL 22 - SILT FENCE



- Construction Specifications**
- Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 1.00 pound per linear foot.
 - Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	50 lbs/in. (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in. (min.)	Test: MSMT 509
Flow Rate	0.3 gal/ft./minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322
 - Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
 - Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

DETAIL 33 - SUPER SILT FENCE



- Construction Specifications**
- Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fence. The specification for a 6' fence shall be used, substituting 42" fabric and 6' length posts.
 - Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence.
 - Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.
 - Filter cloth shall be embedded a minimum of 8" into the ground.
 - When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded.
 - Maintenance shall be performed as needed and all bulges removed when "bulges" develop in the silt fence, or when silt reaches 50% of fence height.
 - Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	50 lbs/in. (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in. (min.)	Test: MSMT 509
Flow Rate	0.3 gal/ft./minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322

TOPSOILING SPECIFICATIONS

- SECTION 1 - SITE PREPARATION (WHERE TOPSOIL IS TO BE ADDED)**
- WHEN TOPSOILING, MAINTAIN NEEDED EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, BERMS, DIKES, WATERWAYS AND SEDIMENT BASINS.
 - GRADING: GRADES ON THE AREAS TO BE TOPSOILED WHICH HAVE BEEN PREVIOUSLY ESTABLISHED SHALL BE MAINTAINED.
 - LIMING: WHERE THE SUBSOIL IS EITHER HIGHLY ACID OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 4-8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET). LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES.
 - TILLING: AFTER THE AREAS TO BE TOPSOILED HAVE BEEN BROUGHT TO GRADE, AND IMMEDIATELY PRIOR TO DUMPING AND SPREADING THE TOPSOIL, THE SUBGRADE SHALL BE LOOSENED BY DISKING OR BY SCRAPING TO A DEPTH OF AT LEAST 3 INCHES TO PERMIT BONDING OF THE TOPSOIL TO THE SUBSOIL. PASS A BULLDOZER UP AND DOWN OVER THE ENTIRE SURFACE AREA OF THE SLOPE TO CREATE HORIZONTAL EROSION CHECK SLOTS TO PREVENT TOPSOIL FROM SLIDING DOWN THE SLOPE.
- SECTION 2 - TOPSOIL MATERIAL AND APPLICATION**
- NOTE: TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED BUT IT SHOULD MEET THE SAME STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. THE DEPTH OF TOPSOIL TO BE SALVAGED SHALL BE NO MORE THAN THE DEPTH DESCRIBED AS A REPRESENTATIVE PROFILE FOR THE PARTICULAR SOIL TYPE AS DESCRIBED IN THE SURVEY PUBLISHED BY USDA-SCS IN COOPERATION WITH MARYLAND AGRICULTURAL EXPERIMENTAL STATION.
- MATERIALS: TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, LOAMY SAND OR OTHER SOIL AS APPROVED BY AN AGRONOMIST OR SOIL SCIENTIST. IT SHALL NOT HAVE A MIXTURE OF CONTRASTING TEXTURED SUBSOIL AND CONTAIN NO MORE THAN 5% BY VOLUME OF CHINDERS, STONES, SLAG, COARSE FRAGMENT, GRAVEL, STICKS, ROOTS, TRASH OR OTHER EXTRANEOUS MATERIALS LARGER THAN 1 1/2" IN DIAMETER. TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS OF BERMUDA GRASS, QUACKGRASS, JOHNSON GRASS, NUTSEDGE, POISON IVY, THISTLES, OR OTHERS AS SPECIFIED. ALL TOPSOIL SHALL BE TESTED BY A REGISTERED LABORATORY FOR ORGANIC MATTER CONTENT, PH AND SOLUBLE SALTS. A PH OF 6.0 TO 7.5 AND AN ORGANIC CONTENT OF NOT LESS THAN 1.5% BY WEIGHT IS REQUIRED. IF PH VALUE IS LESS THAN 6.0, LIME SHALL BE APPLIED AND INCORPORATED WITH THE TOPSOIL TO ADJUST THE PH TO 6.5 OR HIGHER. TOPSOIL CONTAINING SOLUBLE SALTS GREATER THAN 500 PARTS PER MILLION SHALL NOT BE USED.
 - GRADING: THE TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED AND COMPACTED TO A MINIMUM OF FOUR (4) INCHES. SPREADING SHALL BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POOLS. TOPSOIL SHALL NOT BE PLACED WHILE IN A FROZEN OR MUDDY SUBGRADE. IS EXCESSIVELY WET, OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.
- NOTE: TOPSOIL SUBSTITUTES OR AMENDMENTS AS APPROVED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST MAY BE USED INSTEAD OF NATURAL TOPSOIL.
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HOWARD SOIL CONSERVATION DISTRICT STANDARD SEDIMENT CONTROL NOTES

- A minimum of 48 hours notice must be given to the Howard County Department of Inspections, Licenses and Permits, Sediment Control Division prior to the start of any construction (313-1855).
- All vegetative and structural practices are to be installed according to the provisions in this plan and are to be in conformance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL and revisions thereto.
- Following initial soil disturbance or re-disturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes steeper than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol 1, Chapter 7 of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seeding, soil temporary seeding, and mulching (Sec.6). Temporary stabilization with mulch alone shall only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- Site Analysis:

Total Area of Site	= 6.00 Acres
Area Disturbed	= 1.8 Acres
Area to be roofed or paved	= 0.66 Acres
Area to be vegetatively stabilized	= 0.22 Acres
Total Cut	= 1521 CY
Total Fill	= 392 CY
Offsite waste/borrow area location	= A SITE WITH AN ACTIVE GRADING PERMIT
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment control must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
- On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspecting approvals may not be authorized until this initial approval by the inspecting agency is made.
- Trenches for the construction of utilities is limited to three pipe lengths or that which shall be back-filled and stabilized within one working day, whichever is shorter.

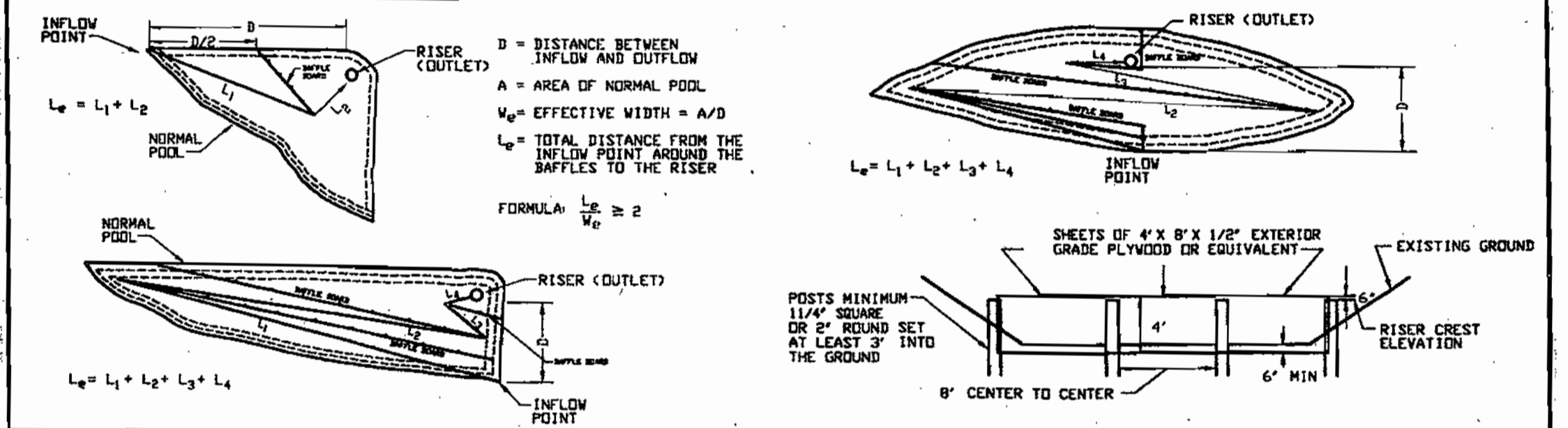
PERMANENT SEEDING NOTES

- Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.
- Seedbed Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.
- Soil Amendments: In lieu of soil test recommendations, use one of the following schedules:
- Preferred - Apply 2 tons/acre dolomitic limestone (92lbs/1000 sq. ft.) and 600 lbs/acre 10-10-10 fertilizer (14 lbs/1000 sq. ft.) before seeding. Harrow or disk into upper three inches of soil. At time of seeding, apply 400 lbs/acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq. ft.)
 - Acceptable - Apply 2 tons/acre dolomitic limestone (92 lbs/1000 sq. ft.) and 1000 lbs/acre 10-10-10 fertilizer (23 lbs/1000 sq. ft.) before seeding. Harrow or disk into upper three inches of soil.
- Seeding - For the periods March 1 - April 30, and August 1 - October 15, seed with 60 lbs/acre (1.4 lbs/1000 sq. ft.) of Kentucky 31 Tall Fescue. For the period May 1 - July 31, seed with 60 lbs/acre Kentucky 31 Tall Fescue per acre and 2 tons/acre (.05 lbs/1000 sq. ft.) of weeping lovegrass. During the period of October 16 - February 28, protect site by Option 1 - Two tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option 2 - Use soil Option 3 - Seed with 60 lbs/acre Kentucky 30 Tall Fescue and mulch with 2 tons/acre well anchored straw.
- Mulching - Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal/1000 sq. ft.) of emulsified asphalt on flat areas. On slope 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq. ft.) for anchoring.
- Maintenance - Inspect all seeding areas and make needed repairs, replacements and reseedings.

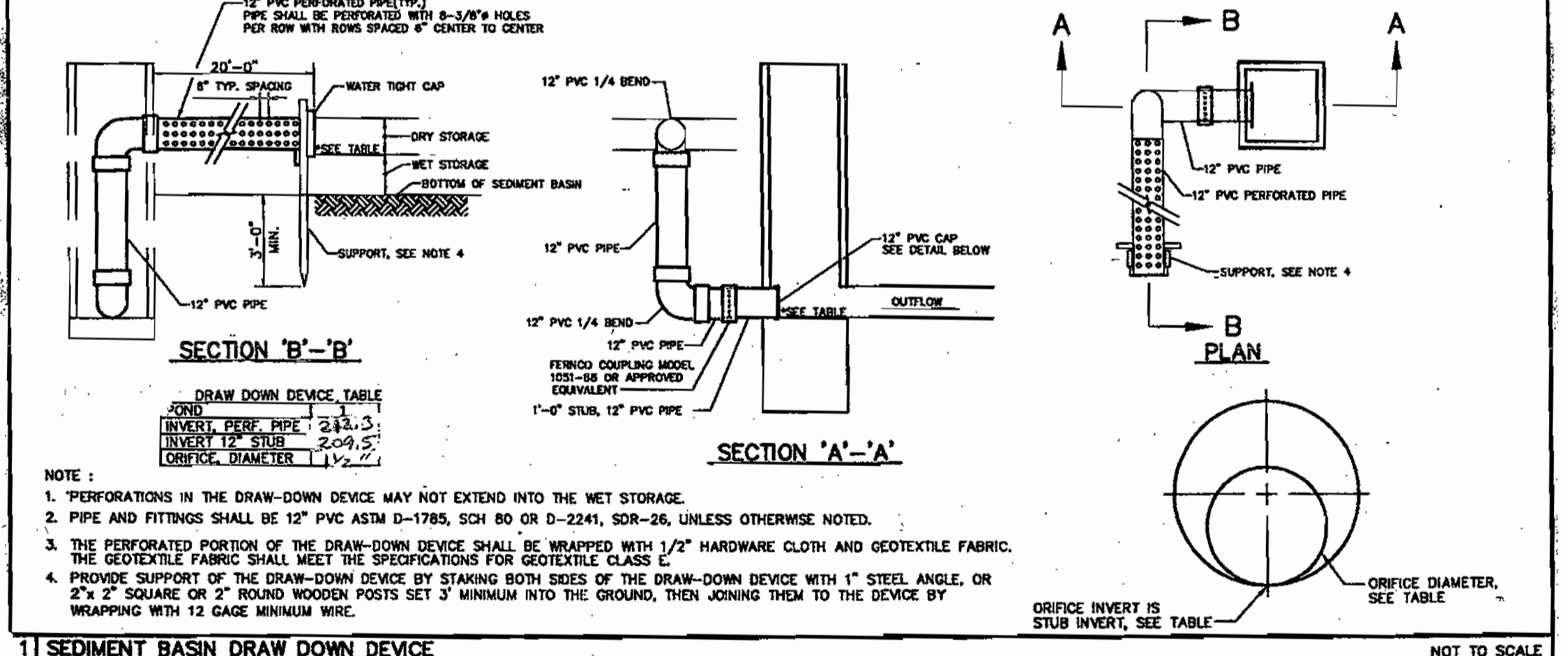
TEMPORARY SEEDING NOTES

- Apply to graded or cleared areas likely to be re-disturbed where a short-term vegetative cover is needed.
- Seedbed preparation: - Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.
- Soil Amendments: - Apply 600 lbs/acre 10-10-10 fertilizer (14lbs/1000 sq. ft.)
- Seeding: - For periods March 1 - April 30 and from August 15 - October 15, seed with 2-1/2 bushel per acre of annual rye (3.2 lbs/1000 sq. ft.). For the period May 1 - August 14, seed with 3 lbs/acre of weeping lovegrass (.07 lbs/1000 sq. ft.). For the period November 16 - February 18, protect site by applying 2 tons/acre of well-anchored straw mulch and seed as soon as possible in the spring, or use sod.
- Mulching - Apply 1-1/2 to 2 tons/acre (70 to 90 lbs/1000 sq. ft.) of unrotted weed-free, small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal/1000 sq. ft.) of emulsified asphalt on flat areas. On slope 8 ft. or higher, use 348 gal. per acre (8 gal/1000 sq. ft.) for anchoring.
- Refer to the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL additional rates and methods not covered.

1 SEDIMENT BASIN DRAW DOWN DEVICE



2 SEDIMENT BASIN BAFFLES



PERMANENT SEEDING SUMMARY

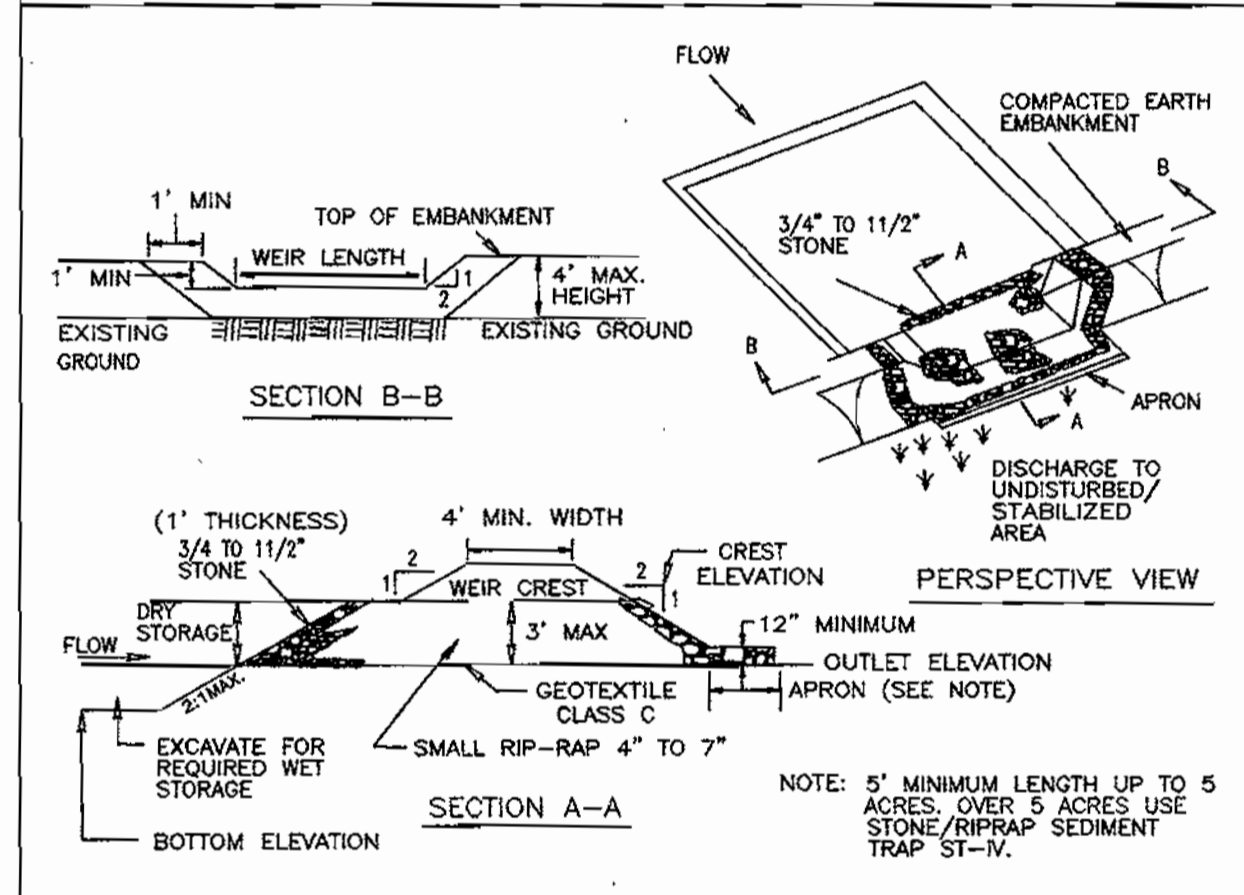
No.	Species	Applic. Rate	Seeding Dates	Seeding Depths	Fertilizer Rate (10-20-20)		Lime Rate
					N	P2O5 K2O	
MIX 10*	TALL FESCUE (80%) HARD FESCUE (20%)	120 LB/AC 30 LB/AC	3/1-5/15 8/15-11/15	1"	90 lb/ac (2.0 lb/1000 sf)	175 lb/ac (4.0 lb/1000 sf)	2 tons/ac (100 lb/1000 sf)
MIX 7	TALL FESCUE (83%) WEEPING LOVEGRASS PLUS SERECIA (2%) LESPEDEZA (15%)	110 LB/AC 3 LB/AC 20 LB/AC	5/16-8/14	1"			

* TO BE USED BOTTOM OF INFILTRATION BASIN ONLY USE MIX NO. 7 IN ALL OTHER LOCATIONS.

TEMPORARY SEEDING SUMMARY

No.	Species	Application Rate(lb/ac)	Seeding Dates	Seeding Depths	Fertilizer Rate (10-10-10)	Lime Rate

DETAIL 9 - STONE OUTLET SEDIMENT TRAP - ST II



Reviewed for HOWARD SCD and meet Technical Requirements.

U.S.D.A. - Natural Resources Conservation Service

The development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT

Howard SCD

3/4/03

3/4/03

ENGINEER'S CERTIFICATE

I Certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with requirements of the Howard Soil Conservation District.

Signature of Engineer (Print name below signature) *Richard Subuff*

Date *2/25/03*

DEVELOPER'S CERTIFICATE

I/We Certify that all development and construction will be done according to this plan and that any responsible personal involved in the construction project will have a certificate of Attendance at the Department of the Environment Approved Training Program for the Control of sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by Howard Soil Conservation District.

Signature of Developer (Print name below signature) *Michael A. Giovannello*

Date *2/25/03*

THE SUBJECT PROPERTY IS ZINED M-2 PER THE 10-18-93 COMPREHENSIVE ZONING PLAN

Approved: Department of Planning and Zoning

Director *Mark DeLugan* Date *2/10/03*

Chief, Division of Land Development *Chad...* Date *2/14/03*

Chief, Development Engineering Division *...* Date *3/5/03*

SUBDIVISION NAME	SECTION/AREA	PARCEL NO.
HOWARD COUNTY DETENTION CENTER	N/A	660

LIBER/FOLIO	BLOCK NO	ZONING	TAX MAP	GRID NO.	HOWARD CO. ELEC. DIST.	CENSUS TR.
2116/282	9,10 AND 15	M-2	45	9	NO-1	6012.02

PROPOSED IMPROVEMENTS
BUILDING ADDITION, SEE SITE ANALYSIS CHART FOR APPLICABLE DPZ FILE
REFERENCE DPZ FILE REF. FOR CURRENT PROJECT SDP-02-20

SEWER CODE 2221000

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Columbia Maryland 21045 (410)995-4067 Fax (410)992-1837

DCI CONSULTING ENGINEERING AND PLANNING

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Phone: 410-995-0090 Fax: 410-992-7038

DANIEL CONSULTANTS, INC.

REVISIONS

NO.	DATE	DESCRIPTION

EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

HOWARD COUNTY CENTRAL BOOKING & DISTRICT COURT COMMISSIONERS FACILITY

HOWARD COUNTY, MARYLAND

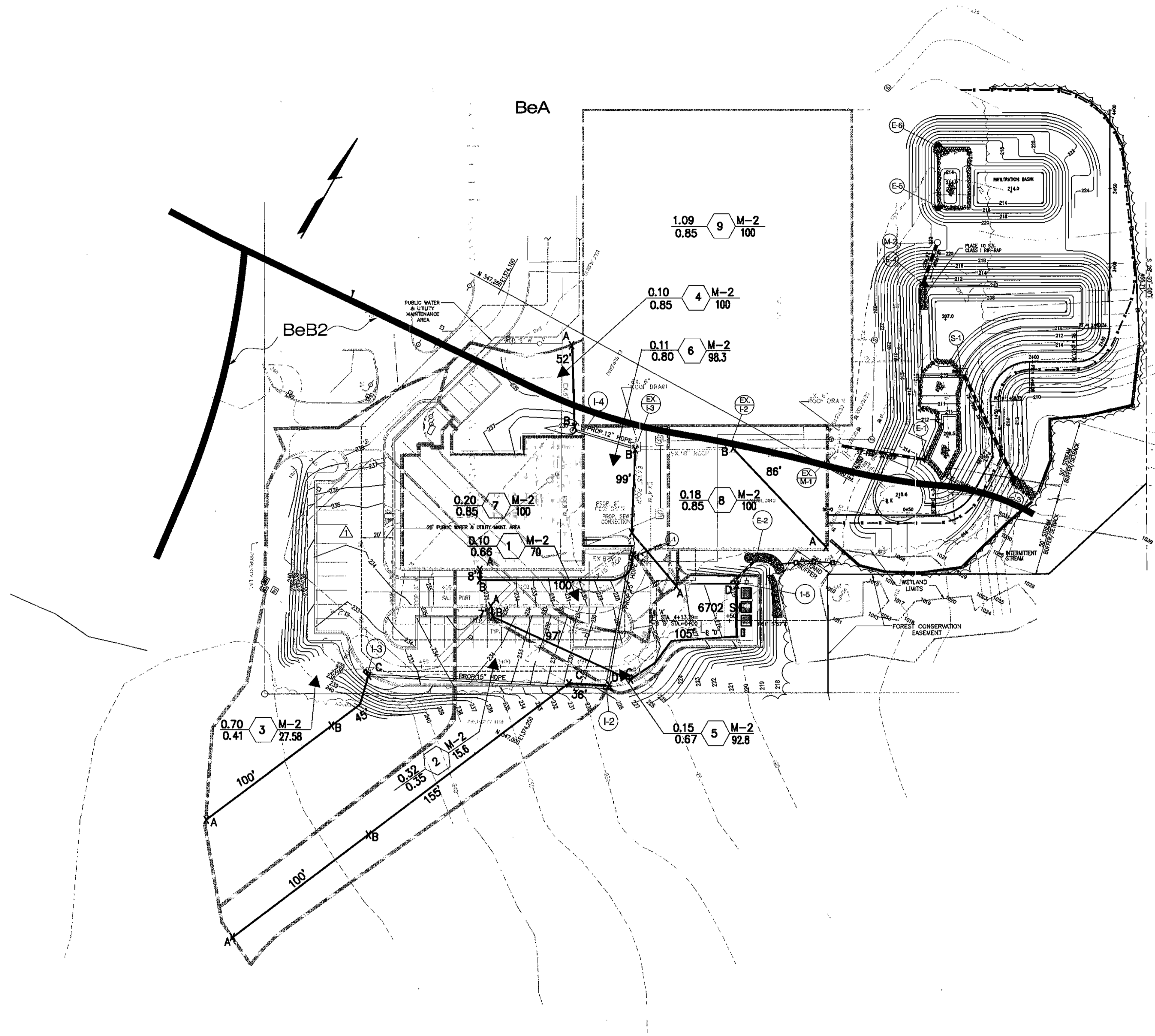
DATE: FEBRUARY 21, 2003

CAPITAL PROJECT NO. P - 4916

C-19

SET SHEET 19 OF 25

SDP-02-20



POST DEVELOPMENT PLAN

SCALE: 1"=40'-0"

LEGEND

AREA (IN ACRES) SUB AREA NO. ZONING % IMPERVIOUS

100' TIME OF CONCENTRATION PATH

THE SUBJECT PROPERTY IS ZONED M-2 PER THE 10-18-93 COMPREHENSIVE ZONING PLAN

Approved: Department of Planning and Zoning
 Director: *Mark D. Cagle* 3/10/03
 Chief, Division of Land Development: *Cindy Harms* 3/14/03
 Chief, Development Engineering Division: *[Signature]* 3/13/03

SUBDIVISION NAME HOWARD COUNTY DETENTION CENTER		SECTION/AREA N/A	PARCEL NO. 660
LIBER/POLIO 2116/282 1009/568 1524, 1534	BLOCK NO 9, 10 AND 15	ZONING M-2	TAX MAP 43
GRID NO. 9		HOWARD CO. ELEC. DIST. NO-1	CENSUS TR. 6012.02
WATER CODE B01		SEWER CODE 2221000	

PROPOSED IMPROVEMENTS
 BUILDING ADDITION. SEE SITE ANALYSIS CHART FOR APPLICABLE DPZ FILE
 REFERENCE DPZ FILE REF. FOR CURRENT PROJECT SDP-02-20

cati Architects Engineers and Construction Consultants

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REVISIONS

NO.	DATE	DESCRIPTION
1	3/12/03	ADDENDUM NO. 1

DRAINAGE AREA

HOWARD COUNTY CENTRAL BOOKING &
 DISTRICT COURT COMMISSIONERS FACILITY
 HOWARD COUNTY, MARYLAND

DATE: FEBRUARY 21, 2003

CAPITAL PROJECT NO.

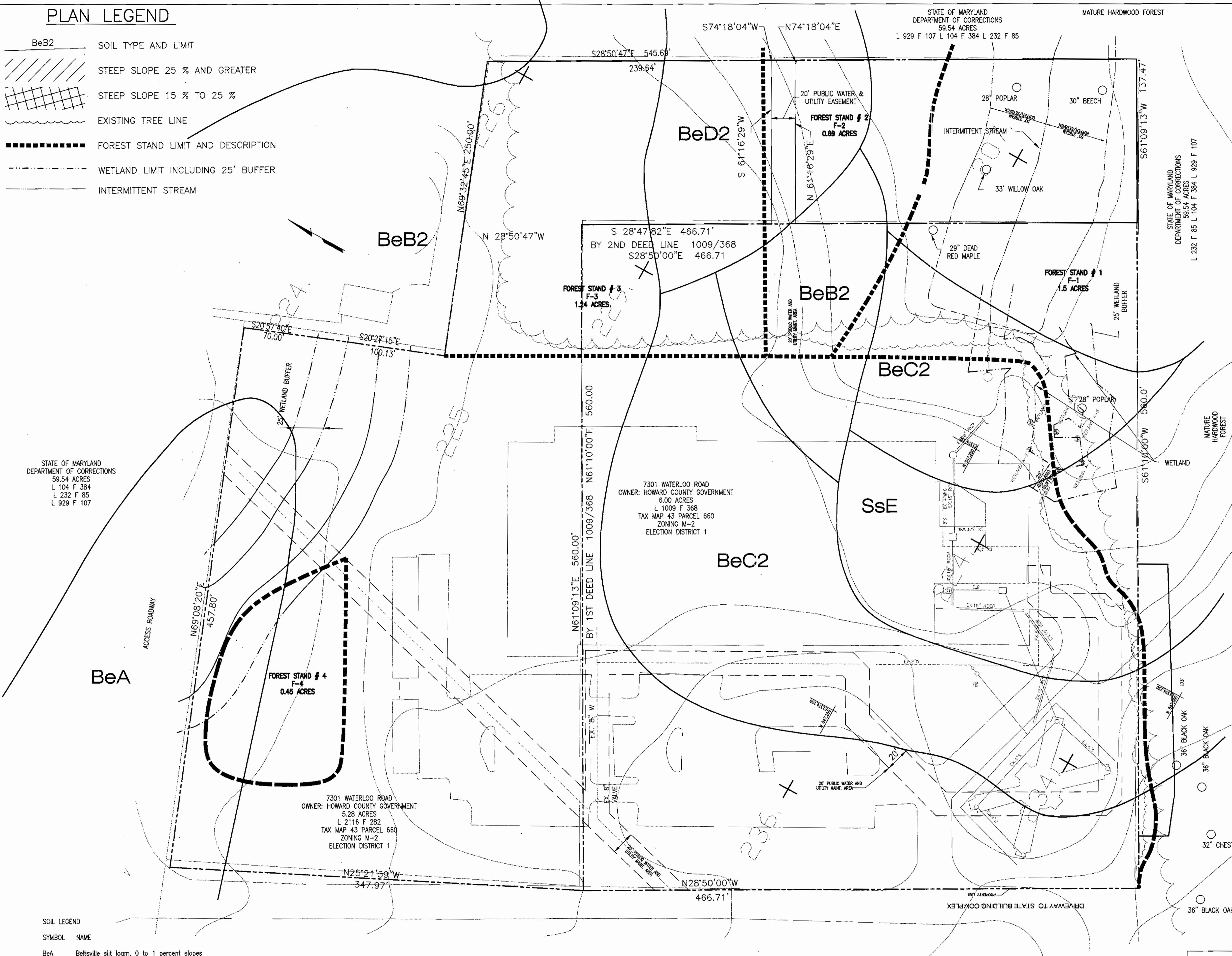
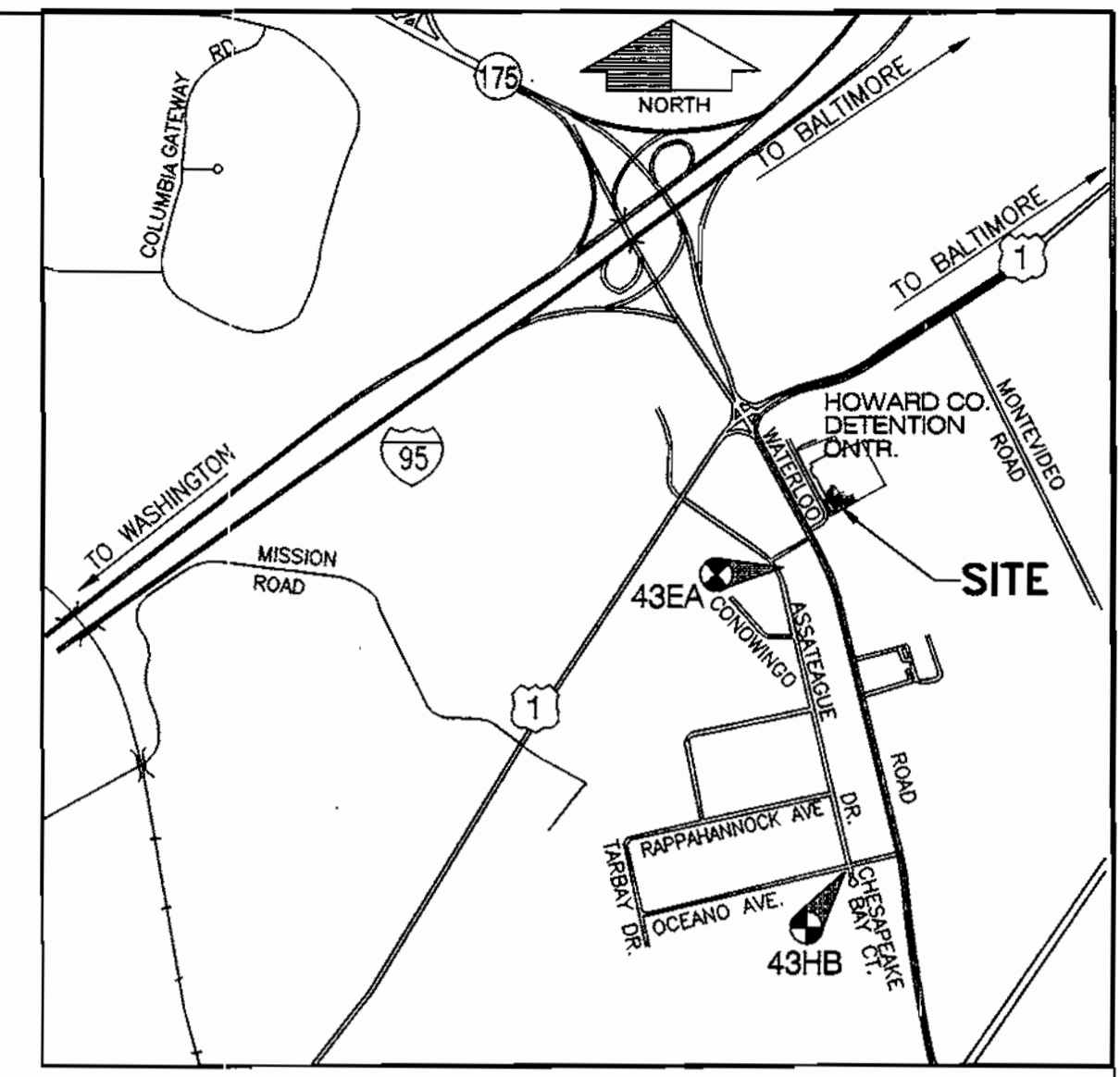
P - 4916

C-20

SET SHEET 20 OF 25

PLAN LEGEND

- BeB2 SOIL TYPE AND LIMIT
- [Hatched Pattern] STEEP SLOPE 25 % AND GREATER
- [Cross-hatched Pattern] STEEP SLOPE 15 % TO 25 %
- [Wavy Line] EXISTING TREE LINE
- [Dashed Line] FOREST STAND LIMIT AND DESCRIPTION
- [Dotted Line] WETLAND LIMIT INCLUDING 25' BUFFER
- [Solid Line] INTERMITTENT STREAM



STAND NARRATIVE

The site consists of about 3.9 acres of woodlands on a 11.28 acre site. 2.18 acres of this forest will be protected by a forest retention easement as shown on this plan.

Stand F1 (0.86 Ac on 1009/71 and 0.64 Ac on 2116/282)
Stand F1 is a mature mixed hardwood forest. The dominant species is tulip poplar but there are also a significant number of red maple and chestnut oak. The size class is medium to large saw timber averaging 18" dbh. The stand contains two specimen trees (a 30" Beech and 33" Willow Oak) and three additional trees, which are newly 30" in diameter. The stocking is in the optimum range for tree growth. This stand is contiguous with mature hardwood stands of the same description to the northeast and southeast of the site the understorey is typical of mature mixed stream valley forests with a large percentage of arrow wood viburnum and spice bush in lowland environments and serviceberry in the upper areas. The ground cover is fairly sparse because of the dense canopy. Cinnamon fern is found in large numbers closer to the wetland areas the only invasive species noted were widely scattered areas of Japanese Honeysuckle closer to the woods edge. Few signs of distress were found. A large dead oak was also found possibly killed by gypsy moth larva. Approximately 85% of the stand covers environmentally sensitive areas (wetlands and wetland buffers). This together with its inherent high quality makes this stand a high preservation priority.

Stand F2 (0.22 Ac on 1009/371 and 0.48 Ac on 2116/282)
Stand F2 is a mixed hardwood forest containing a large percentage of red maple. This forest stand appears to be much younger than the trees in forest stand F-1. A 1968 aerial photograph shows this area was once open field. The only other species within the stand in great numbers is some widely scattered tulip poplar. The size class is small to medium saw timber averaging 9" dbh. The stand contains no specimen trees or unusual species. Because of the dense canopy the understorey and ground cover is relatively sparse and composed mainly of tree regeneration and some Smilax species the understorey becomes more dense closer to the northwest edge of the Japanese Honeysuckle and multiflora rose are beginning to invade. Few signs of distress were found. Approximately 20 percent of the stand covers environmentally sensitive areas (wetland buffer, steep slopes). This together with the developing hardwood forest make this stand a high preservation priority.

Stand F3 (0.40 Ac on 1009/371 and 0.84 Ac on 2116/282)
Stand F3 is a mix of trees typical of middle succession growth on abandoned farm fields. A 1968 aerial photograph shows this area was once open field. Red mulberry is the dominant species. These trees are being displaced by taller red maples and chestnut oaks which are now widely scattered over approximately 60% of the stand. The canopy is not completely closed so the understorey is much denser than in forest stands F-1 and F-2. The understorey and ground cover species include multiflora rose poison ivy, Japanese honey suckle and herbaceous plants such as goldenrod and ragweed. No environmentally sensitive areas are covered by the stand. Because the stand is on well-drained upland soils the stand could in time become a high quality mixed forest habitat contiguous with stand F-2. At this time however its preservation priority would be considered moderate.

Stand F4 (0.45 Ac all on 2116/282)
Stand F4 is a mix of trees typical of middle succession growth on abandoned farm fields in low land environments. The stand is on flat land that appears to be poorly drained adjacent to a wetland area. A 1968 aerial photograph shows this area was once open field. Sweet birch is the dominant species and averages 7" dbh. Other species are also typical of moist lowland areas and include persimmon, red maple and a few sweet gum. The stand is isolated from all other stands on site and on adjacent parcels by buildings and roadways. The understorey is mainly tree regeneration; the ground cover is almost exclusively a dense growth of poison ivy. Along the woods edge there is some Japanese Honeysuckle. Few signs of distress were found. Approximately 25% of the stand covers environmentally sensitive areas (wetland and wetland buffer) although the stand has good potential to evolve into a quality lowland hardwood forest because of its small size and isolated location its preservation priority would be considered low.

STATE OF MARYLAND
DEPARTMENT OF CORRECTIONS
59.54 ACRES
L 104 F 384
L 232 F 85
L 929 F 107

7301 WATERLOO ROAD
OWNER: HOWARD COUNTY GOVERNMENT
6.00 ACRES
L 1009 F 368
TAX MAP 43 PARCEL 660
ZONING M-2
ELECTION DISTRICT 1

7301 WATERLOO ROAD
OWNER: HOWARD COUNTY GOVERNMENT
5.28 ACRES
L 2116 F 282
TAX MAP 43 PARCEL 660
ZONING M-2
ELECTION DISTRICT 1

SOIL LEGEND

SYMBOL	NAME
BeA	Beltville silt loam, 0 to 1 percent slopes
BeB2	Beltville silt loam, 1 to 5 percent slopes, moderately eroded
BeC2	Beltville silt loam, 5 to 10 percent slopes, moderately eroded
BeD2	Beltville silt loam, 10 to 15 percent slopes, moderately eroded
L1	Leonardtown silt loam
SsE	Sassafras soils, 15 to 40 percent slopes

SITE PLAN
SCALE 1"=40'

QUALIFIED PROFESSIONAL PER THE MARYLAND FOREST CONSERVATION ACT
Richard Subitt 2/25/03
DATE

THE SUBJECT PROPERTY IS ZONED M-2 PER THE 10-18-93 COMPREHENSIVE ZONING PLAN

Approved: Department of Planning and Zoning	
Director <i>Marsha D. Langdon</i>	2/10/03 Date
Chief, Division of Land Development <i>Wanda H. ...</i>	2/14/03 Date
Chief, Development Engineering Division <i>Chad ...</i>	2/5/03 Date

SUBDIVISION NAME HOWARD COUNTY DETENTION CENTER	SECTION/AREA N/A	PARCEL NO. 660
LIBER/FOLIC 2116/282 1009/368 1704/154	BLOCK NO 9, 10 AND 15	ZONING M-2
TAX MAP 43	GRID NO. 9	HOWARD CO. ELEC. DIST. NO-1
WATER CODE B01	SEWER CODE 2221000	CENSUS TR. 6012.02

PROPOSED IMPROVEMENTS
BUILDING ADDITION, SEE SITE ANALYSIS CHART FOR APPLICABLE DPZ FILE REFERENCE DPZ FILE REF. FOR CURRENT PROJECT SDP-02-20

H:\PROJECTS\CIVIL\012190\PROGRESSIVE\C-22.DWG USED LEVEL MANAGER

Architects Engineers and Construction Consultants
8950 Route 108 Suite 218
Columbia Maryland 21045 (410)995-4067/Fax(410)992-1837



DCI CONSULTING ENGINEERING AND PLANNING
8950 Rt. 108 E., Suite 229 Columbia, MD. 21045
Phone: 410-995-0090 Fax: 410-992-7038

REVISIONS

NO.	DATE	DESCRIPTION

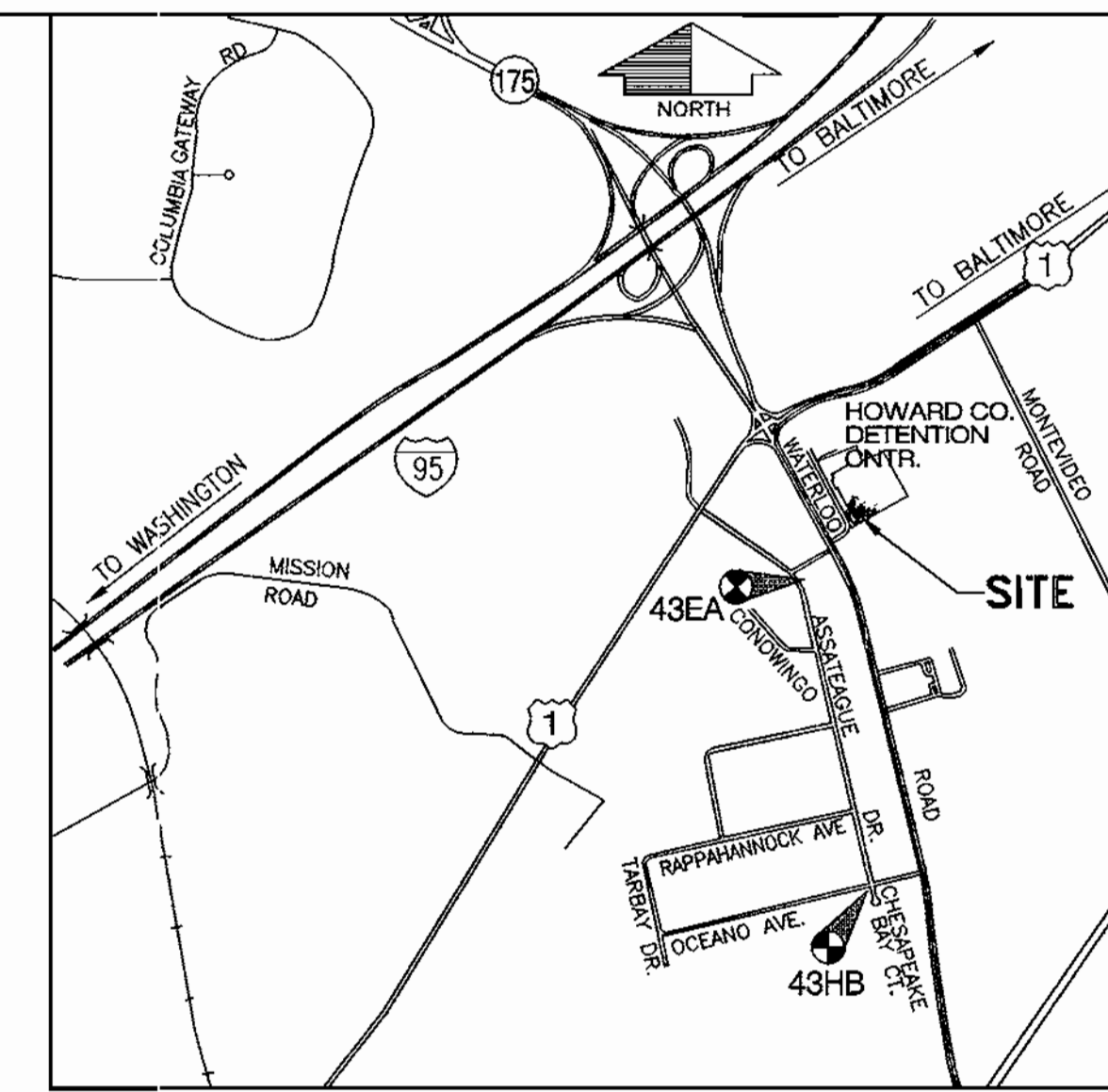
FOREST STAND DELINATION
HOWARD COUNTY CENTRAL BOOKING & DISTRICT COURT COMMISSIONERS FACILITY
HOWARD COUNTY, MARYLAND

DATE: FEBRUARY 21, 2003

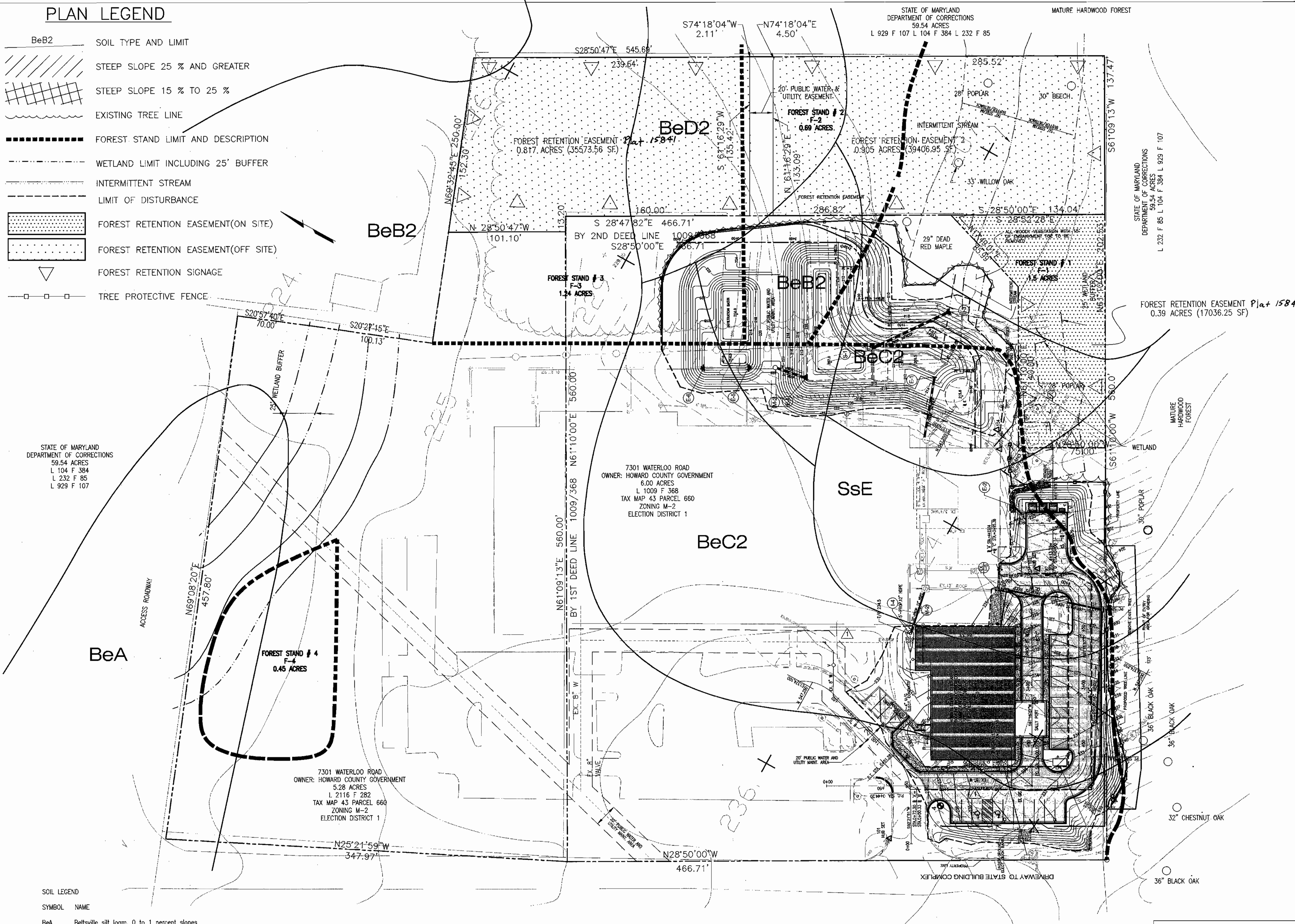
CAPITAL PROJECT NO.
 P - 4916
C-22
SET SHEET 22 OF 25
SDP-02-20

PLAN LEGEND

- BeB2 SOIL TYPE AND LIMIT
- STEEP SLOPE 25 % AND GREATER
- STEEP SLOPE 15 % TO 25 %
- EXISTING TREE LINE
- FOREST STAND LIMIT AND DESCRIPTION
- WETLAND LIMIT INCLUDING 25' BUFFER
- INTERMITTENT STREAM
- LIMIT OF DISTURBANCE
- FOREST RETENTION EASEMENT(ON SITE)
- FOREST RETENTION EASEMENT(OFF SITE)
- FOREST RETENTION SIGNAGE
- TREE PROTECTIVE FENCE



VICINITY MAP
SCALE: 1"=2000'



SITE PLAN
SCALE 1"=40'

STATE OF MARYLAND
DEPARTMENT OF CORRECTIONS
59.54 ACRES
L 104 F 384
L 232 F 85
L 929 F 107

7301 WATERLOO ROAD
OWNER: HOWARD COUNTY GOVERNMENT
5.28 ACRES
L 2116 F 282
TAX MAP 43 PARCEL 660
ZONING M-2
ELECTION DISTRICT 1

7301 WATERLOO ROAD
OWNER: HOWARD COUNTY GOVERNMENT
6.00 ACRES
L 1009 F 368
TAX MAP 43 PARCEL 660
ZONING M-2
ELECTION DISTRICT 1

- SOIL LEGEND
- | SYMBOL | NAME |
|--------|-----------------------------------------------------------------|
| BeA | Beltville silt loam, 0 to 1 percent slopes |
| BeB2 | Beltville silt loam, 1 to 5 percent slopes, moderately eroded |
| BeC2 | Beltville silt loam, 5 to 10 percent slopes, moderately eroded |
| BeD2 | Beltville silt loam, 10 to 15 percent slopes, moderately eroded |
| L1 | Leonardtown silt loam |
| SsE | Sassafras soils, 15 to 40 percent slopes |

THE SUBJECT PROPERTY IS ZONED M-2 PER THE 10-18-93 COMPREHENSIVE ZONING PLAN

Approved: Department of Planning and Zoning

James D. ... 3/16/03
Director Date

Chris ... 3/17/03
Chief, Division of Land Development Date

Chris ... 3/16/03
Chief, Development Engineering Division Date

SUBMISSION NAME		SECTION/AREA	PARCEL NO.
HOWARD COUNTY DETENTION CENTER		N/A	660
LIBER/FOLIO	BLOCK NO	ZONING	TAX MAP
2116/282	9, 10 AND 15	M-2	43
GRID NO.	HOWARD CO. ELEC. DIST.	CENSUS TR.	
1009/368	NO-1	6012.02	
WATER CODE	SEWER CODE		
B01	2221000		

QUALIFIED PROFESSIONAL PER THE MARYLAND FOREST CONSERVATION ACT

Richard ... 3/16/03
DATE

H:\PROJECTS\CIVIL\0121901\PROGRESSIVE\C-22.DWG USED LEVEL MANAGER

lati Architects Engineers and Construction Consultants

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DANIEL CONSULTANTS, INC.

REVISIONS

NO.	DATE	DESCRIPTION
1	3/12/03	ADDENDUM NO 1

FOREST CONSERVATION PLAN

HOWARD COUNTY CENTRAL BOOKING & DISTRICT COURT COMMISSIONERS FACILITY
HOWARD COUNTY, MARYLAND

DATE: FEBRUARY 21, 2003

CAPITAL PROJECT NO. P-4916

C-23

SET SHEET 23 OF 25

SDP-02-20

FOREST CONSERVATION WORK SHEET

I. BASIC SITE DATA

	ACRES (1/10 ACRE)
GROSS SITE AREA	6.00
AREA WITHIN 100 YEAR FLOOD PLAIN	0.00
AREA WITHIN AGRICULTURAL USE OR PRESERVATION PARCEL (IF APPLICABLE)	0.00
NET TRACK AREA	6.00
LAND USE CATEGORY (R-RLD, R-RMD, R-S, C/10, I, R-20)	1

II. INFORMATION FOR CALCULATIONS

A. NET TRACT	6.00
B. REFORESTATION THRESHOLD (20% X A)	1.20
C. AFFORESTATION MINIMUM (15% X A)	0.90
D. EXISTING FOREST ON NET TRACK AREA	1.48
E. FOREST AREAS TO BE CLEARED	1.09*
F. FOREST AREAS TO BE RETAINED	0.39

* ONLY 0.65 AC REMOVED AS PART OF THIS PROJECT.

III. DETERMINING REQUIREMENTS: AFFORESTATION OR REFORESTATION

1. REFORESTATION

IF EXISTING FOREST AREAS EQUAL OR EXCEED THE AFFORESTATION MINIMUM (IF D EQUALS OR IS MORE THAN C), AND CLEARING OF FOREST AREAS IS PROPOSED REFORESTATION REQUIREMENTS MAY APPLY.

GO TO SECTION IV

IF EXISTING FORESTS EXCEED THE AFFORESTATION MINIMUM (IF D EQUALS OR IS MORE THAN C) AND NO CLEARING OF EXISTING FOREST RESOURCES IS PROPOSED, NO REFORESTATION IS REQUIRED. NO FURTHER CALCULATIONS ARE NEEDED.

2. AFFORESTATION

IF EXISTING FOREST AREA ARE LESS THAN THE AFFORESTATION MINIMUM (IF D IS LESS THAN C). AFFORESTATION REQUIREMENTS APPLY.

GO TO SECTION V

IV. REFORESTATION CALCULATIONS

A. NET TRACT AREA	6.00
B. REFORESTATION THRESHOLD (20% X A)	1.20
C. AFFORESTATION MINIMUM (15% X A)	0.90
D. EXISTING FOREST ON NET TRACK AREA	1.48
E. FOREST AREAS TO BE CLEARED	1.09
F. FOREST AREAS TO BE RETAINED	0.39
G. FOREST AREAS CLEARED ABOVE REFORESTATION THRESHOLD (D - F, IF F EQUALS OR IS GREATER THAN B, ALTERNATIVE 1) (D - B, IF F IS LESS THAN B ALTERNATIVE 2)	0.28
H. FOREST AREAS CLEARED BELOW REFORESTATION THRESHOLD (B - F, IF APPLICABLE)	0.81
I. FOREST AREAS RETAINED ABOVE REFORESTATION THRESHOLD (F - B, RETENTION CREDIT, IF APPLICABLE)	N.A.

SELECT THE ALTERNATIVE THAT APPLIES:

- CLEARING ABOVE THE THRESHOLD ONLY:
IF FOREST AREAS TO BE RETAINED EQUAL OR ARE GREATER THAN THE REFORESTATION THRESHOLD (IF F EQUALS OR IS GREATER THAN B), THE FOLLOWING CALCULATIONS APPLY:

REFORESTATION FOR CLEARING ABOVE THRESHOLD
 $G \times 1/4$ 0.00

CREDIT FOR FOREST AREAS RETAINED ABOVE THRESHOLD
I = RETENTION CREDIT 0.00

TOTAL REFORESTATION REQUIRED
 $(G \times 1/4) - I$ 0.00

IF THE TOTAL REFORESTATION REQUIREMENT IS EQUAL TO OR LESS THAN 0, NO REFORESTATION IS REQUIRED.

- CLEARING BELOW THE THRESHOLD:
IF FOREST AREAS TO BE RETAINED ARE LESS THAN THE REFORESTATION THRESHOLD (IF F IS LESS THAN B), THE FOLLOWING CALCULATIONS APPLY:

REFORESTATION FOR CLEARING ABOVE THRESHOLD
 $G \times 1/4$ 0.10

REFORESTATION FOR CLEARING BELOW THRESHOLD
 $H \times 2$ 1.62

TOTAL REFORESTATION REQUIRED
 $(G \times 1/4) + (H \times 2)$ 1.72

SINCE CLEARING OCCURS BELOW THE THRESHOLD, NO FOREST RETENTION CREDIT IS POSSIBLE.

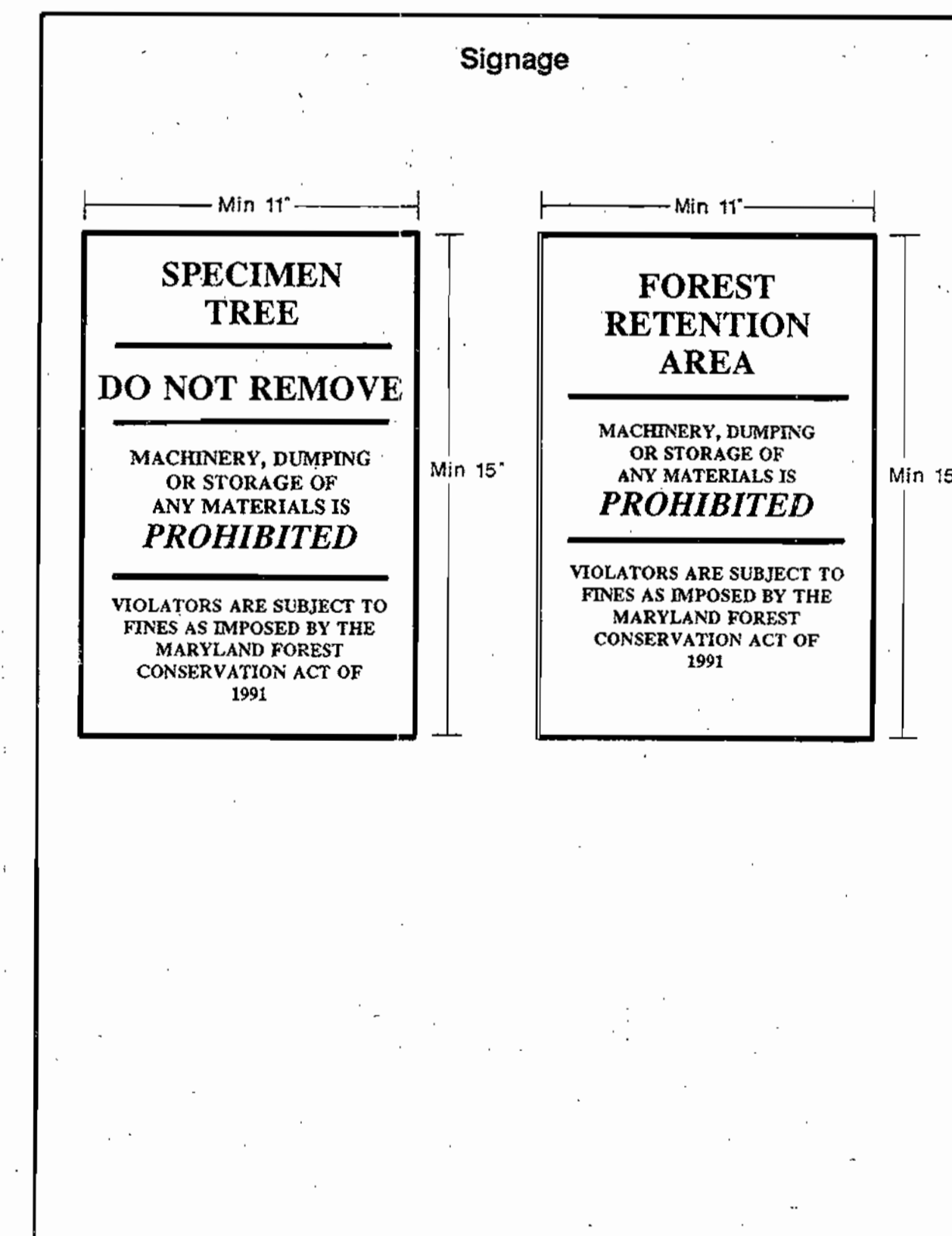
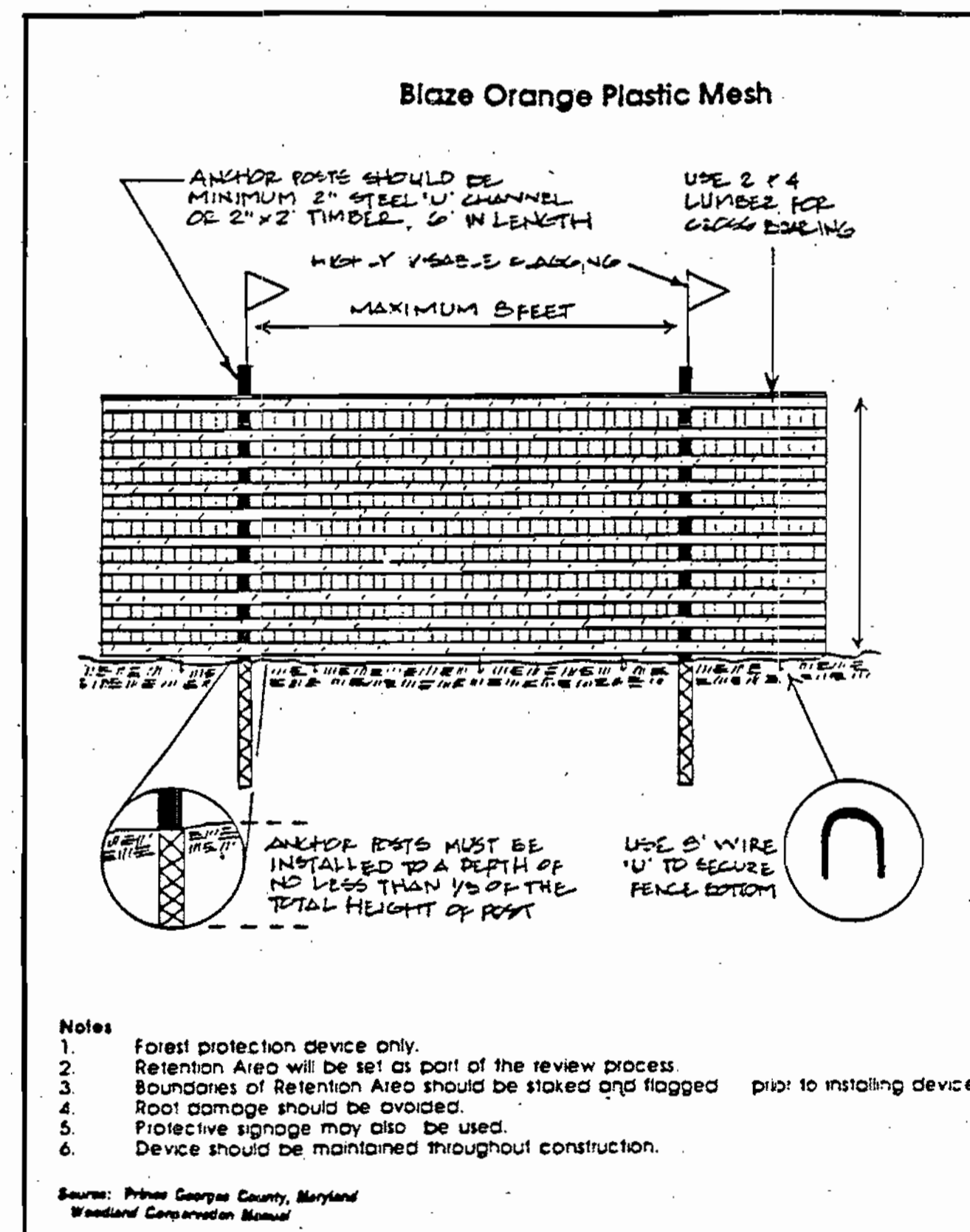
CONSTRUCTION PERIOD PRACTICES

TRAFFIC IS TO BE EXCLUDED FROM THE RETENTION AREAS WHICH WILL BE FENCED AND POSTED PRIOR TO CONSTRUCTION. EVERY EFFORT WILL BE MADE TO AVOID DISTURBANCE OF THE PRIMARY ROOT ZONE OF TREES IN THE RETENTION AREA. THIS MEANS, GENERALLY, THAT THE ROOT ZONE WILL NOT BE DISTURBED WITHIN THE DRIP LINE OF THE TREES IN THE RETENTION AREA. FOR TREES WHICH ARE TO BE RETAINED OUTSIDE THE RETENTION AREA THE SAME CARE APPLIES. ADDITIONALLY, THESE TREES WILL BE PROTECTED FROM COMPACTING BY CONSTRUCTION EQUIPMENT, STORAGE OF CONSTRUCTION MATERIALS, AND FROM FILLING OVER THEIR ROOT ZONES WITHIN THE DRIP LINE. PARKING OF EQUIPMENT AND STORAGE OF MATERIALS WILL BE DIRECTED AWAY FROM RETENTION AREAS, STREAMS, AND OTHER TREES WHICH ARE TO BE RETAINED.

POST CONSTRUCTION PRACTICES

RETENTION AREA FENCING IS TO BE RETAINED FOR THE REQUIRED PERIOD. TREES ON THE MARGINS OF THE RETENTION AREAS WILL BE CHECKED FOR SIGNS OF DECLINE CAUSED BY CONSTRUCTION DISTURBANCE, AND TREATED APPROPRIATELY. ANY EROSION PROBLEMS WILL BE CORRECTED, PARTICULARLY THOSE THAT IMPACT THE RETENTION AREAS. THE NEW HOMEOWNERS WILL RECEIVE BRIEF INSTRUCTION ABOUT THE IMPORTANCE OF THE RETENTION AREAS AND THEIR OWN RIGHTS AND RESPONSIBILITIES WITH RESPECT TO THOSE AREAS ON THEIR PROPERTY. IN GENERAL THE CONSTRUCTION PERIOD PROHIBITIONS WILL APPLY. THE NEW OWNERS WILL BE INSTRUCTED TO MINIMIZE USE OF HERBICIDES AND INSECTICIDES ADJACENT TO RETENTION AREAS AND THEY WILL BE ENCOURAGED TO FEATURE NATIVE SPECIES IN ANY PLANTING DONE ON THE NEW LOTS.

PROVIDE SIGNS EVERY 50' TO 100'



THE SUBJECT PROPERTY IS ZONED M-2 PER THE 10-18-93 COMPREHENSIVE ZONING PLAN

Approved: Department of Planning and Zoning		Date: 2/20/03
Director: <i>Frank DeLuca</i>	Date: 3/14/03	
Chief, Division of Land Development: <i>Chris DeLuca</i>	Date: 3/14/03	
Chief, Development Engineering Division: <i>Chris DeLuca</i>	Date: 3/14/03	
SUBDIVISION NAME: HOWARD COUNTY DETENTION CENTER	SECTION/AREA: N/A	PARCEL NO.: 660
LIBER/FOLIO: 2116/282	BLOCK NO: 9, 10 AND 15	ZONING: M-2
TAX MAP: 1009/368	TAX MAP: 43	GRID NO: 9
HOWARD CO. ELEC. DIST.: NO-1	CENSUS TR.: 6012.02	
WATER CODE: B01	SEWER CODE: 2221000	
PROPOSED IMPROVEMENTS: BUILDING ADDITION. SEE SITE ANALYSIS CHART FOR APPLICABLE DPZ FILE REFERENCE DPZ FILE REF. FOR CURRENT PROJECT SDP-02-20		

PROJECTS CIVIL 0122101 C-23A.DWG

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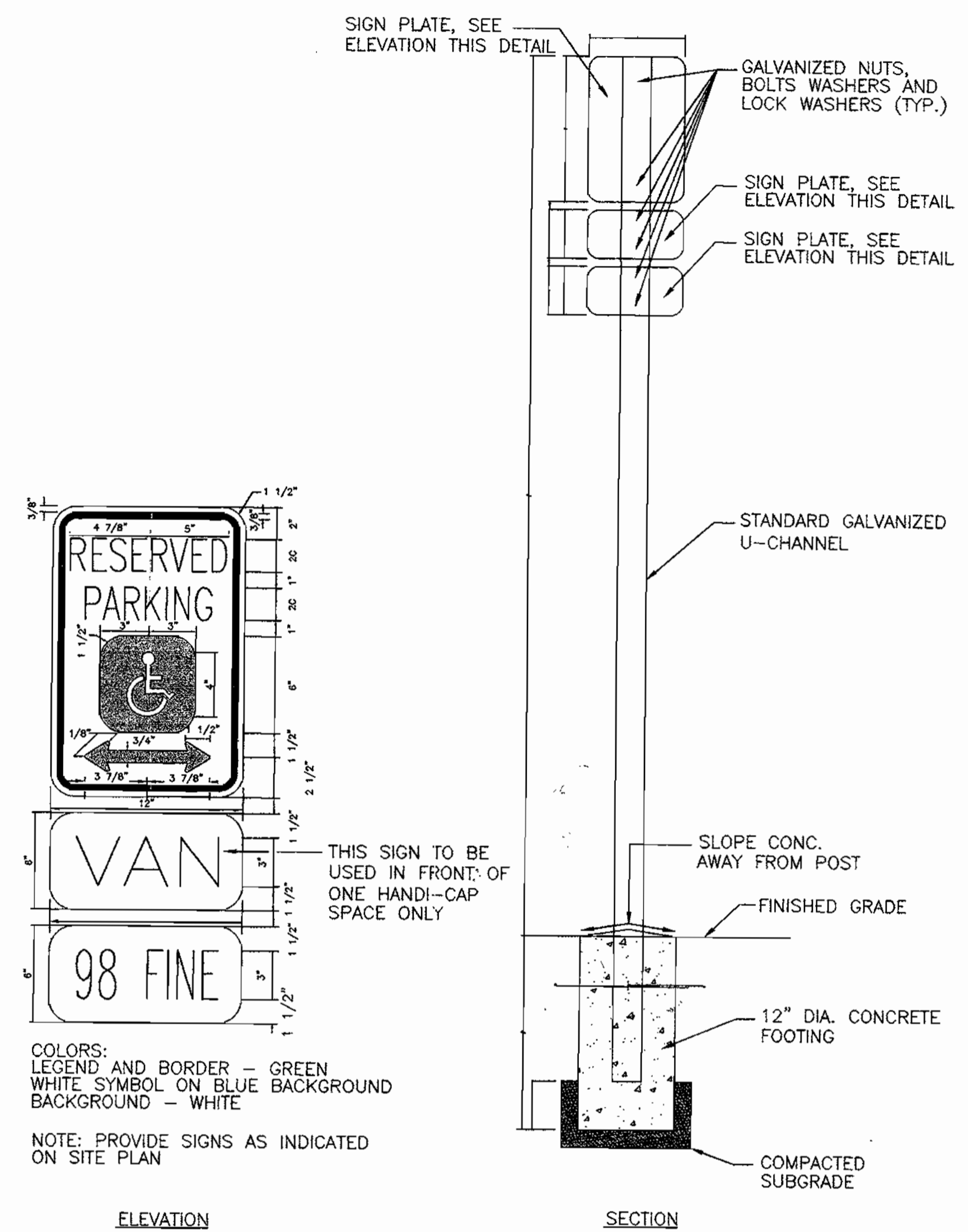
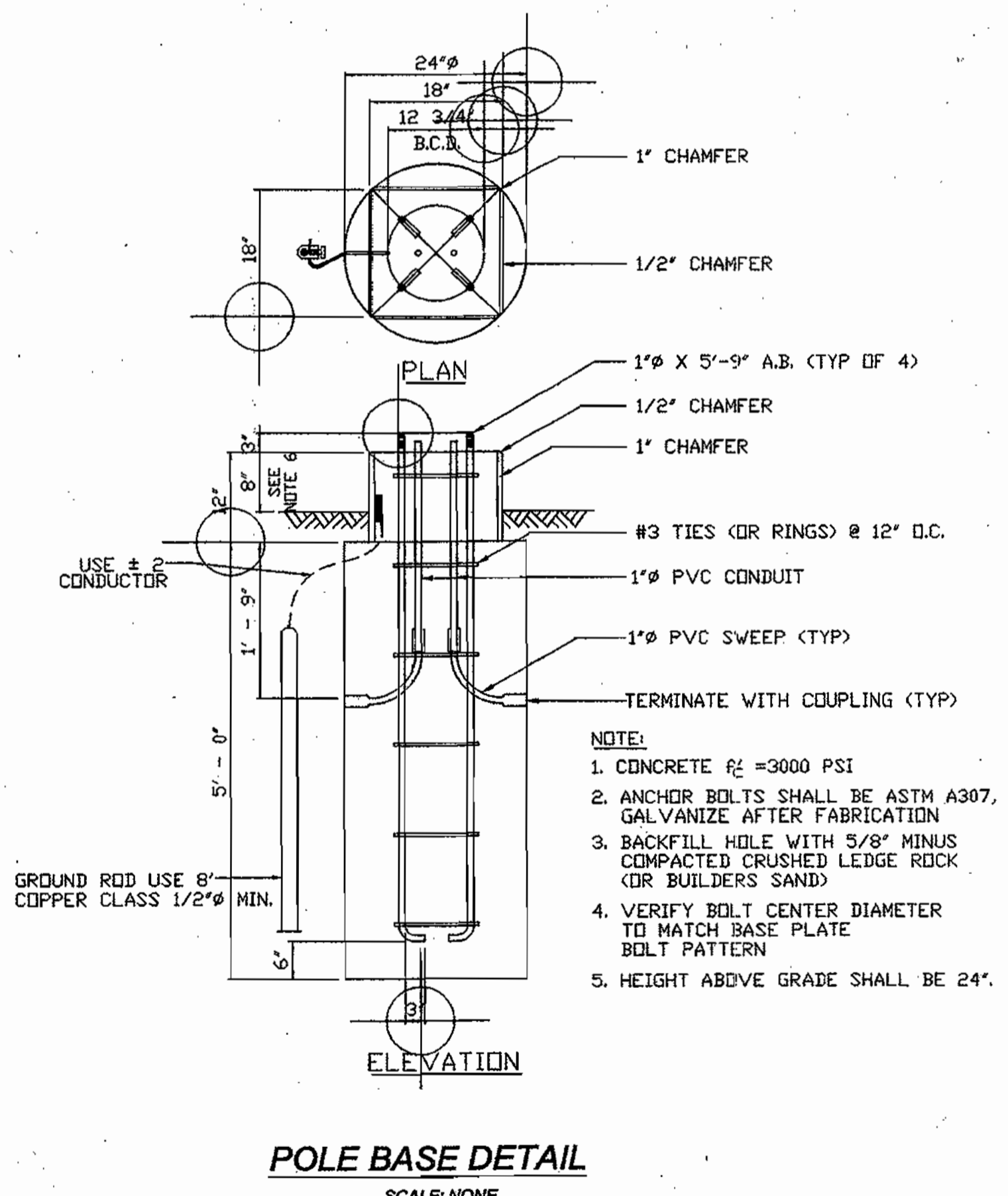
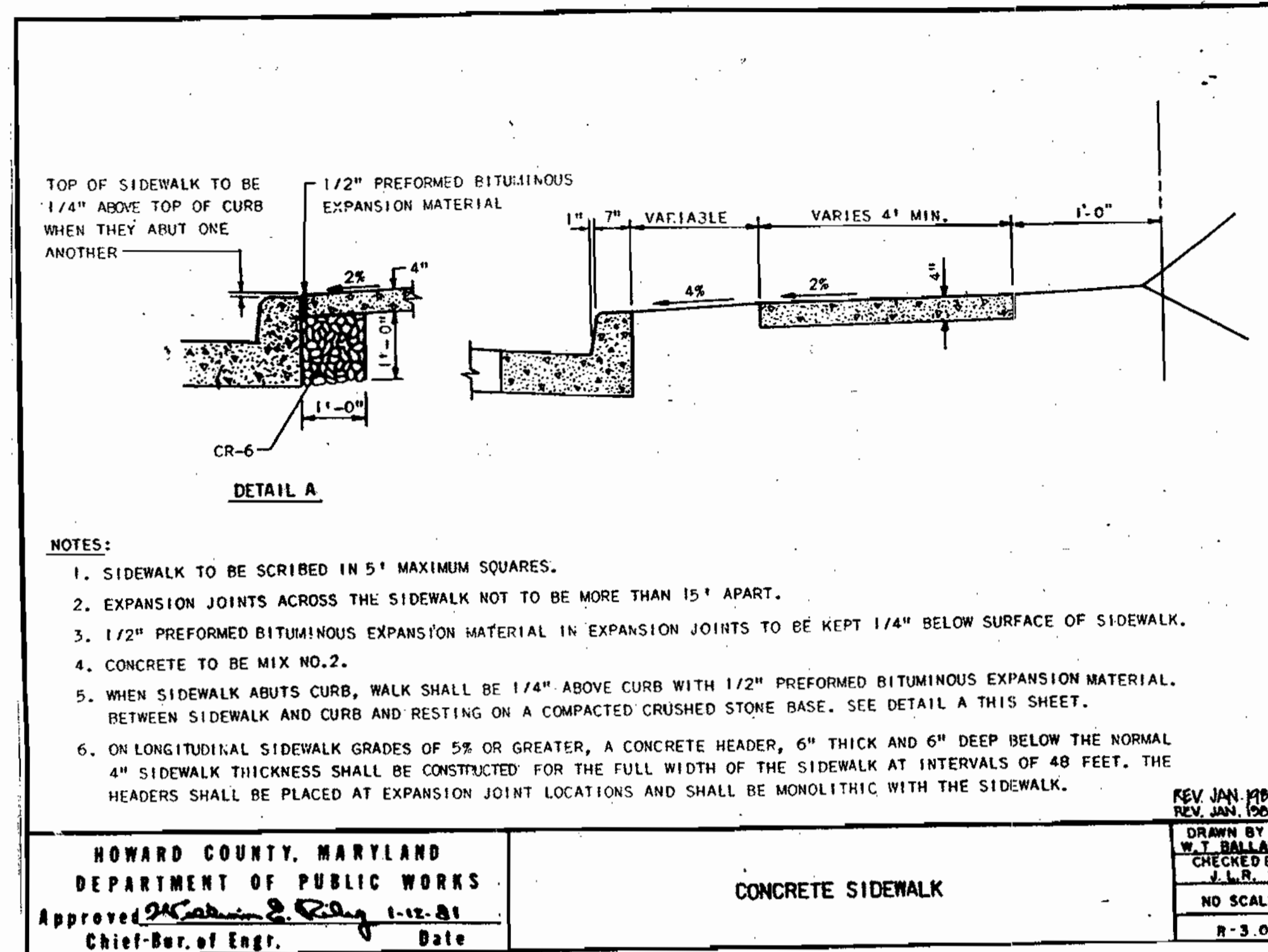
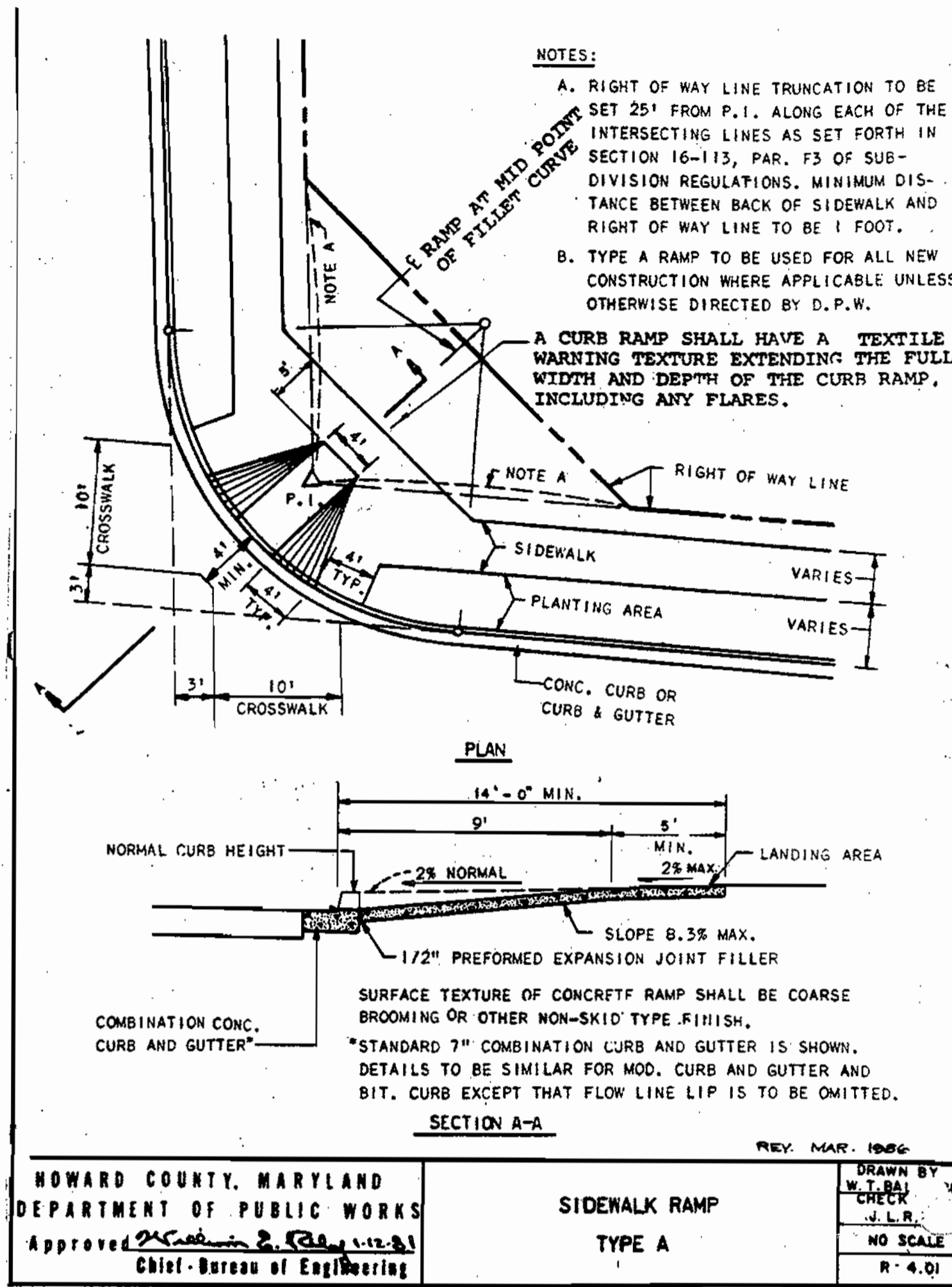


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DANIEL CONSULTANTS, INC.

REVISIONS		
NO.	DATE	DESCRIPTION

FOREST CONSERVATION PLAN DETAILS
HOWARD COUNTY CENTRAL BOOKING & DISTRICT COURT COMMISSIONERS FACILITY
HOWARD COUNTY, MARYLAND
DATE: FEBRUARY 21, 2003

CAPITAL PROJECT NO. P-4916
C-24
SET SHEET 24 OF 25



SECTION NUMBER	ROAD AND STREET CLASSIFICATION	PAVEMENT MATERIALS	
		FULL DEPTH BIT. CONC. ALTERNATE	GRANULAR BASE ALTERNATES
P-1	PARKING BAYS APARTMENTS AND COMMERCIAL-INDUSTRIAL ZONES WITH NO HEAVY TRUCKS TRAVELWAYS FOR APARTMENTS AND COMMERCIAL INDUSTRIAL ZONES WITH NO HEAVY TRUCK	1" BIT. CONC. SURFACE 4" BIT. CONC. BASE	1" BIT. CONC. SURFACE 2" BIT. CONC. BASE 4" GRADED AGGREGATE BASE (GAB)
P-2	RESIDENTIAL ZONES LOCAL, CUL-DE-SAC STS. ALLEYS AND PRIVATE ROADS SERVING INDIVIDUAL LOTS TRAVELWAYS APARTMENTS AND COMMERCIAL-INDUSTRIAL ZONES WITH NO MORE THAN 10 HEAVY TRUCKS PER DAY*	1 1/2" BIT. CONC. SURFACE 5" BIT. CONC. BASE	1 1/2" BIT. CONC. SURFACE 2 1/2" BIT. CONC. BASE 6" GRADED AGGREGATE BASE (GAB)
P-3	RESIDENTIAL ZONES MINOR AND MAJOR COLLECTORS COMMERCIAL-INDUSTRIAL ZONES LOCAL AND CUL-DE-SAC STREETS ALLEYS TRAVELWAYS APARTMENTS AND COMMERCIAL-INDUSTRIAL ZONES WITH MORE THAN 10 HEAVY TRUCKS PER DAY*	1 1/2" BIT. CONC. SURFACE 1 1/2" BIT. CONC. BASE 5" BIT. CONC. BASE	1 1/2" BIT. CONC. SURFACE 4 1/2" BIT. CONC. BASE 5" GRADED AGGREGATE BASE (GAB)
P-4	COMMERCIAL-INDUSTRIAL ZONES MINOR COLLECTOR	1 1/2" BIT. CONC. SURFACE 3 1/2" BIT. CONC. BASE 5" BIT. CONC. BASE	1 1/2" BIT. CONC. SURFACE 1 1/2" BIT. CONC. BASE 5" BIT. CONC. BASE 4" GRADED AGGREGATE BASE (GAB)

* TRAVELWAYS ARE DEFINED AS THE ROADWAYS LEADING TO THE PARKING BAYS.
 * HEAVY TRUCKS ARE DEFINED AS THOSE WITH 6 WHEEL OR MORE INCLUDING GARBAGE TRUCKS.

HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS
 Approved *W. T. Ballard* & *J. L. R.* 1-12-81
 Chief-Bur. of Engr. Date

PAVING SECTIONS P-1 THROUGH P-4
 DRAWN BY W. T. BALLARD
 CHECKED BY J. L. R.
 NO SCALE
 R-2.01

THE SUBJECT PROPERTY IS ZONED M-2 PER THE 10-18-93 COMPREHENSIVE ZONING PLAN

Approved: Department of Planning and Zoning
 Director: *W. T. Ballard* Date: 2/16/02
 Chief, Division of Land Development: *John R. Smith* Date: 2/14/02
 Chief, Development Engineering Division: *W. T. Ballard* Date: 2/16/02

SUBMISSION NAME HOWARD COUNTY DETENTION CENTER	SECTION/AREA N/A	PARCEL NO. 660
LIBER/FOLIO 2116/282 1008/568	ZONING M-2	TAX MAP 43
BLOCK NO. 9, 10 AND 15	GRID NO. 9	HOWARD CO. CENSUS TR. ELEC. DIST. NO-1 6012.02
WATER CODE B01	SEWER CODE 2221000	

PROPOSED IMPROVEMENTS
 BUILDING ADDITION, SEE SITE ANALYSIS CHART FOR APPLICABLE DPZ FILE REFERENCE DPZ FILE REF. FOR CURRENT PROJECT SDP-02-20

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 DANIEL CONSULTANTS, INC.

REVISIONS		
NO.	DATE	DESCRIPTION

HOWARD COUNTY STANDARD PLATES
 HOWARD COUNTY CENTRAL BOOKING & DISTRICT COURT COMMISSIONERS FACILITY
 HOWARD COUNTY, MARYLAND
 DATE: FEBRUARY 21, 2003

CAPITAL PROJECT NO.
 P-4916
C-25
 SET SHEET 25 OF 25