

BLANDAIR REGIONAL PARK - PHASE 1

HOWARD COUNTY, MARYLAND

CAPITAL PROJECT #N-3102

SITE DEVELOPMENT PLAN 10-007

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY. SPECIFICATIONS AND DETAILS FOR CONSTRUCTION PLUS MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- THE SUBJECT PROPERTY IS ZONED RC-DEO PER THE 2/2/04 COMPREHENSIVE ZONING PLAN AND PER THE "COMP LITE" ZONING REGULATION AMENDMENTS EFFECTIVE 7/28/06.
- NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING OR NEW STRUCTURES SHALL BE PERMITTED WITHIN WETLANDS, STREAMS, WETLAND OR STREAM BUFFERS, 100-YEAR FLOODPLAIN, OR FOREST CONSERVATION EASEMENTS UNLESS APPROVED BY THE DEPARTMENT OF PLANNING AND ZONING.
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.
- THIS PROJECT WILL PHASE THE REQUIREMENTS OF SUBSECTION 16.1202(g)(1) OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION AS ALLOWED BY WAIVER PETITION WP-10-013, APPROVED OCTOBER 15, 2009. THE TOTAL PROJECT FOREST CONSERVATION OBLIGATION WILL BE UPDATED UPON SUBMITTAL OF EACH NEW PHASE. IN ADDITION, RECONSIDERATION OF WP-10-013, APPROVED JANUARY 27, 2010, WILL WAIVE SUBSECTION 16.1204(c)(1) TO ALLOW TEMPORARY DEFERRAL OF RECORDATION OF FOREST CONSERVATION EASEMENTS. PRIOR TO APPROVAL OF THE SDP FOR THE FINAL PHASE OF THE PARK, A FINAL PLAN APPLICATION SHALL BE SUBMITTED CONCURRENTLY TO DEPICT THE FOREST CONSERVATION EASEMENTS OF THE FINAL PHASE AND ALL FOREST CONSERVATION EASEMENTS PREVIOUSLY APPROVED ON PRIOR SDP'S FOR THE PARK.

TOTAL EXISTING FOREST (EXCLUDING FLOODPLAIN): 105.64 AC
ESTIMATED TOTAL CLEARING PER MASTERPLAN: 41.79 AC
ESTIMATED TOTAL FOREST RETAINED: 63.85 AC

PHASE 1 PROPOSED CLEARING: 2.87 AC
PHASE 1 PROPOSED RETENTION: 1.94 AC
- WATER IS PUBLIC: CONTRACT NUMBER 24-4637-D.
- SEWER IS PUBLIC: CONTRACT NUMBER 24-4637-D.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UP ON THE MARYLAND STATE PLANE COORDINATE SYSTEM: HORIZONTAL NAD'83/91 VERTICAL NAVD'88.

HOWARD COUNTY MONUMENTS USED FOR THIS PROJECT:
30HA: N 566030.6258, E 1357989.5444
36BC: N 563264.1261, E 1359585.7197
- THE 100-YEAR APPROXIMATE FLOODPLAIN IS SHOWN ON NFIP FIRM PANEL 240044 0034B, DATED 12/4/1986 AND NFIP LOMR, DATED 10/14/1999. A FLOODPLAIN STUDY FOR THIS PROJECT WAS PREPARED BY WHITMAN, REQUARDT & ASSOCIATES AND WAS APPROVED ON NOVEMBER 5, 2009 BY PLANNING AND ZONING, DEVELOPMENT ENGINEERING DIVISION.
- THE WETLANDS DELINEATION STUDY FOR PHASE 1 AND PHASE J OF THE PROJECT WAS PREPARED BY WHITMAN, REQUARDT & ASSOCIATES AND REVIEWED AND CONCURRED IN THE FIELD WITH MDE AND USACE ON AUGUST 17, 2009.
- THE TRAFFIC STUDY FOR THIS PROJECT WAS PREPARED BY WHITMAN, REQUARDT & ASSOCIATES AND WAS APPROVED ON NOVEMBER 5, 2009 BY PLANNING AND ZONING, DEVELOPMENT ENGINEERING DIVISION.
- TOPOGRAPHICAL FIELD SURVEYS OF THE SITE WERE PERFORMED BY WHITMAN, REQUARDT AND ASSOCIATES LLP (WRA) IN MARCH 2008. ADDITIONAL UTILITY INFORMATION WAS PROVIDED BY HOWARD COUNTY RECORDS AND MAY NOT REFLECT CURRENT CONDITIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY CURRENT TOPOGRAPHIC AND UTILITY INFORMATION.
- APPROXIMATE LOCATION AND INVERTS OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN AN UNINTERRUPTED SERVICE. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES BY TEST PIT OR OTHER MEANS OF INVESTIGATION APPROVED BY THE OWNER WELL IN ADVANCE OF CONSTRUCTION. ANY DAMAGE BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- ALL TRAFFIC SIGNS AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF MSHA'S MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL TRAFFIC SIGNS SHALL CONFORM TO THE LATEST VERSION OF MSHA'S STANDARD SIGN BOOK.
- LETTERS SHALL BE OBTAINED PRIOR TO GRADING PERMIT APPROVAL FROM ADJACENT PROPERTY OWNERS AUTHORIZING OFF-SITE ACTIVITIES.
- ALL TRASH AND REFUSE WILL BE RESPONSIBILITY OF THE DEPARTMENT OF RECREATION AND PARKS, AND WILL BE REMOVED FROM THE PARK ON A WEEKLY BASIS.
- PERIMETER LANDSCAPE BUFFER P-3 WILL BE A TEMPORARY CONDITION. PLANS TO RELOCATE OAKLAND MILLS ROAD TO THE EAST AND EXPAND THE PARKING LOT SHOWN ON THESE PLANS ARE CURRENTLY UNDERWAY. THE PROPOSED PERIMETER LANDSCAPE TREATMENT ALONG THE FUTURE RELOCATED OAKLAND MILLS ROAD WILL BE DEVELOPED AS PART OF THE EXPANDED PARKING LOT PLANS.
- AN EXTENDED DETENTION SHALLOW WETLAND (W-2) WILL PROVIDE WATER QUALITY VOLUME (WQV), CHANNEL PROTECTION VOLUME (CPV), OVERBANK FLOOD PROTECTION VOLUME (Qp) AND EXTREME FLOOD VOLUME (Qf). RECHARGE VOLUME (REV) WILL BE PROVIDED WITH RECHARGE TRENCHES UNDER DRY SWALES AND THE FIELD TURF UNDERDRAINS. NON-ROOFTOP DISCONNECTION CREDITS, ROOFTOP DISCONNECTION CREDIT AND GRASS CHANNEL CREDITS WILL ALSO BE USED TO MANAGE THE PROPOSED DEVELOPMENT. HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL STORMWATER MANAGEMENT FACILITIES.
- MDE PERMIT FOR LOD WITHIN STREAM IS 09-NI-0448/200963354.



Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 16156 Expiration Date: 8-28-18



SEAL FOR RESUME REV. 1 ONLY

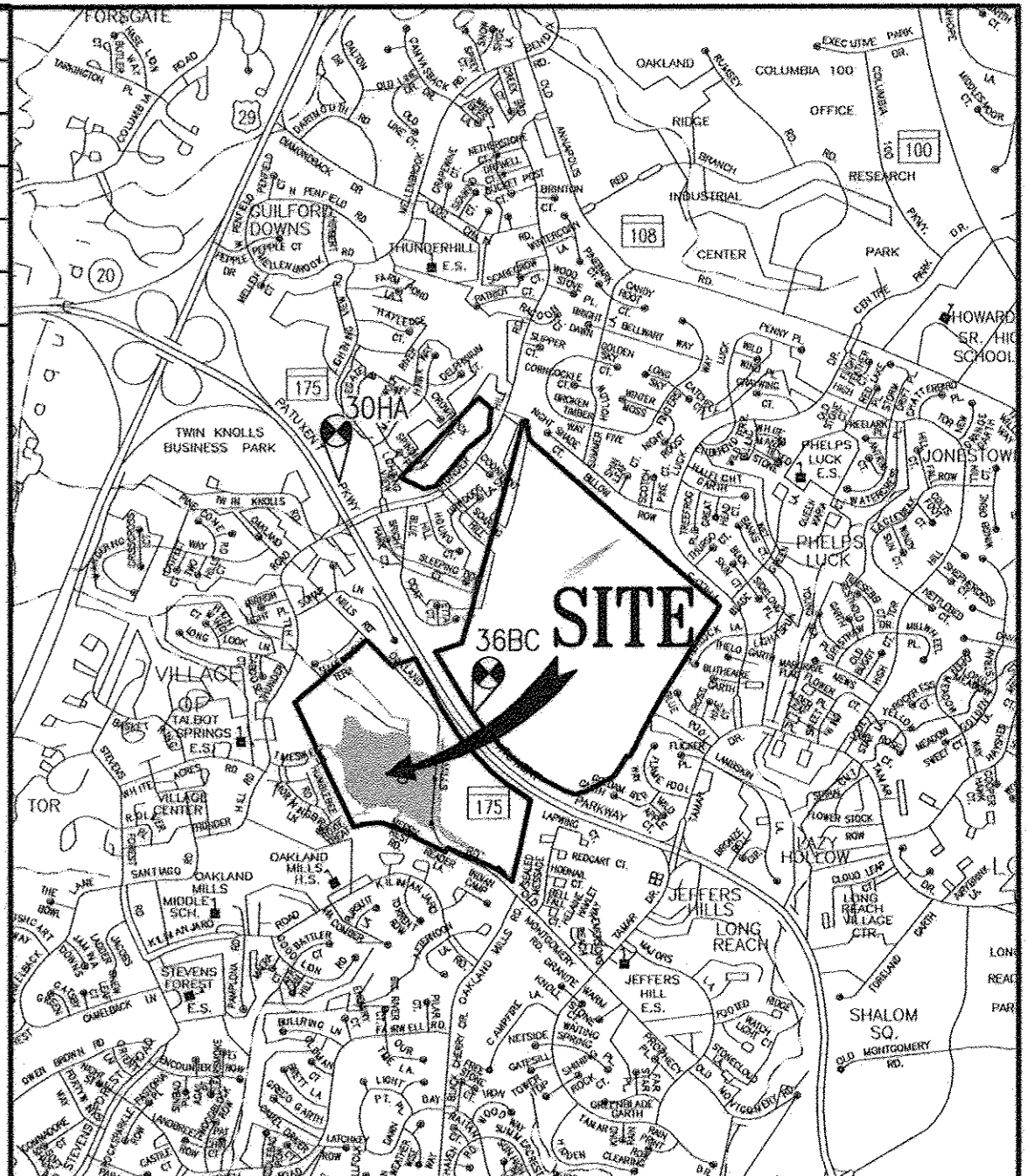
REVISIONS	
1	PROPOSED SHADE STRUCTURE 10/21/10

BENCHMARK DATA

30HA: N 566030.6258, E 1357989.5444, ELEV. 386.983
36BC: N 563264.1261, E 1359585.7197, ELEV. 409.981

LIST OF DRAWINGS

- | | | |
|--|-----------------------------------|--|
| 1. CIVIL | 1. CO.1 COVER SHEET | |
| 2. CO.2 ABBREVIATIONS, NOTES, AND LEGENDS | | |
| 3. C1.0 EXISTING SITE PLAN | | |
| 4. C1.1 OVERALL SITE DEVELOPMENT PLAN | | |
| 5. C1.2 SITE PLAN A | | |
| 6. C1.3 SITE PLAN B | | |
| 7. C1.4 STAKEOUT PLAN A | | |
| 8. C1.5 STAKEOUT PLAN B | | |
| 9. C1.6 OVERALL EROSION & SEDIMENT CONTROL/GRADING PLAN A | | |
| 10. C1.7 EROSION & SEDIMENT CONTROL/GRADING PLAN B | | |
| 11. C1.8 INITIAL GRADING | | |
| 12. C1.9 EROSION & SEDIMENT CONTROL/GRADING PLAN B FINAL GRADING | | |
| 13. C1.10 PHOTOMETRIC TEST PLAN | | |
| 14. C1.11 TRAFFIC CONTROL PLAN PHASE 1 | LANDSCAPE | |
| 15. C1.12 TRAFFIC CONTROL PLAN PHASE 1 | 39. L1.1 SITE LANDSCAPE PLAN | |
| 16. C1.13 TRAFFIC CONTROL PLAN PHASE 1 | 40. L1.2 SWM LANDSCAPE PLAN | |
| 17. C1.14 TRAFFIC CONTROL PLAN PHASE 2 | 41. L1.3 ENLARGEMENT | |
| 18. C1.15 TRAFFIC CONTROL PLAN PHASE 2 | 42. L1.4 LANDSCAPE PLAN | |
| 19. C1.16 TRAFFIC CONTROL PLAN PHASE 2 | 43. L1.5 ENLARGEMENTS | |
| 20. C1.17 SIGNING AND MARKING PLAN | 44. L2.1 SEEDING PLAN | |
| 21. C2.1 STORM DRAIN PROFILES | 45. L2.2 HARDSCAPE DETAILS | |
| 22. C2.2 STORM DRAIN PROFILES | 46. L2.3 HARDSCAPE DETAILS | |
| 23. C2.3 STORM DRAIN PROFILES | 47. L2.4 PLANTING DETAILS | |
| 24. C3.1 MULTIPURPOSE FIELD PLAN | 48. L2.5 PLANTING SCHEDULES | |
| 25. C3.2 ENLARGED SITE PLANS | | |
| 26. C3.3 STORMWATER MANAGEMENT POND DETAILS | | |
| 27. C4.1 STORMWATER MANAGEMENT DETAILS | FOREST CONSERVATION | |
| 28. C4.2 SITE DETAILS | 49. F1.1 FOREST CONSERVATION PLAN | |
| 29. C4.3 SITE DETAILS | 50. F1.2 FOREST CONSERVATION PLAN | |
| 30. C4.4 SITE DETAILS | 51. F1.3 FOREST CONSERVATION PLAN | |
| 31. C5.1 EROSION AND SEDIMENT CONTROL - NOTES | | |
| 32. C5.2 EROSION AND SEDIMENT CONTROL - NOTES/DETAILS | | |
| 33. C5.3 EROSION AND SEDIMENT CONTROL - DETAILS | | |
| 34. C5.4 BORING LOGS | | |
| 35. C5.5 SWM CONSTRUCTION NOTES AND SWM BORINGS | | |
| 36. C6.1 OVERALL DRAINAGE AREA MAPS | | |
| 37. C6.2 STORMWATER MANAGEMENT DRAINAGE AREA PLAN | | |
| 38. C6.3 INLET DRAINAGE AREA MAP | | |

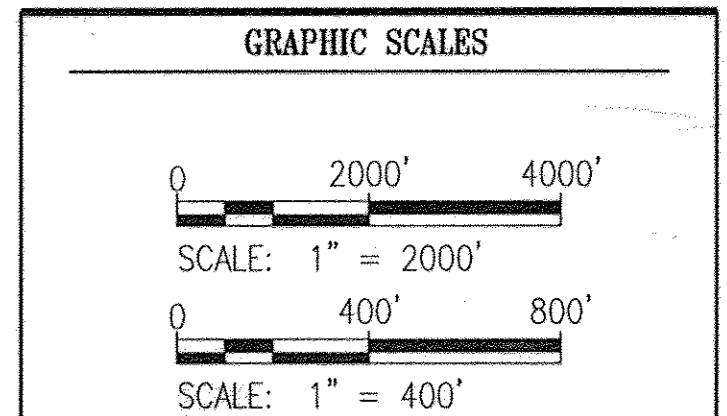


ADC MAP: 16
GRID: A6,A7

VICINITY MAP
1" = 2000'



WHITMAN, REQUARDT & ASSOCIATES, LLP
801 South Caroline Street, Baltimore, Maryland 21231
Phone: 410-235-5450 Fax: 410-243-5716



SIGNATURE

Whitman
PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19376
EXPIRATION DATE: 08/22/2011

SITE ANALYSIS DATA CHART

TOTAL PROPERTY AREA: 298.08 ACRES
AREA OF PLAN SUBMISSION: 25.1 ACRES
LIMIT OF DISTURBED AREA: 25.1 ACRES

PRESENT ZONING DESIGNATION: RC-DEO

PROPOSED USES: REGIONAL PARK, ATHLETIC FIELDS, PLAYGROUND, PICNIC SHELTER, COMFORT STATION

FLOOR SPACE: PICNIC SHELTER - 1ST FLOOR: 1470 SF
COMFORT STATION - 1ST FLOOR: 1270 SF

PARKING REQUIREMENTS (PER HOWARD COUNTY RECREATION & PARKS)
MULTIPURPOSE FIELD: 50 SPACES X 3 = 150 SPACES
PICNIC SHELTER: 50 SPACES
PLAYGROUND: 10 SPACES
TOTAL REQUIRED: 210 SPACES

PARKING SPACES PROVIDED: 270 SPACES, 8 HANDICAP (278 TOTAL)

APPLICABLE DPZ FILE NUMBERS: WP-10-013

ADDRESS CHART	
PARCEL #	STREET ADDRESS
3/72	PICNIC SHELTER: 5750 OAKLAND MILLS ROAD COMFORT STATION: 5752 OAKLAND MILLS ROAD

OWNER:	DEVELOPER:	PERMIT INFORMATION CHART			
HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS 7120 OAKLAND MILLS ROAD COLUMBIA, MD 21046 ATTN: MR. RAIL DELERME	HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS 9250 BENDIX ROAD COLUMBIA, MD 21045 ATTN: MR. MARK KOVACH	WATER CODE: PUBLIC	SEWER CODE: PUBLIC	BUILDING N/A	STREET ADDRESS N/A
VOICE 410-313-4689 FAX 410-313-4646	VOICE 410-313-6153 FAX 410-313-6144	PROJECT NAME: BLANDAIR REGIONAL PARK - PHASE 1	SECTION/AREA N/A	PARCEL 3/72	
		L/7 4391/55 5203/439	GRID #5	ZONING RC-DEO	TAX MAP BLOCK 36 5 ELEC. DIST 3/7 CENSUS TRACT 60603

APPROVED: DEPARTMENT OF PUBLIC WORKS

Sanjiv 2/22/10
DIRECTOR OF PUBLIC WORKS DATE
Paul 2/22/10
CHIEF, BUREAU OF ENGINEERING DATE
Steve 2/22/10
CHIEF, TRANSPORTATION AND SPECIAL PROJECTS DATE

APPROVED: DEPARTMENT OF RECREATION AND PARKS

Andrew 2-22-10
DIRECTOR DATE
Patricia 3/31/2010
COUNTY HEALTH OFFICER DATE
HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS

Patricia 3/31/2010
COUNTY HEALTH OFFICER DATE
HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: DEPARTMENT OF PLANNING AND ZONING

John 3/9/10
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE
John 4/8/10
CHIEF, DIVISION OF LAND DEVELOPMENT DATE
Morgan 4/8/10
DIRECTOR DATE

LOCATION MAP

1" = 400'

BLANDAIR REGIONAL PARK - PHASE 1

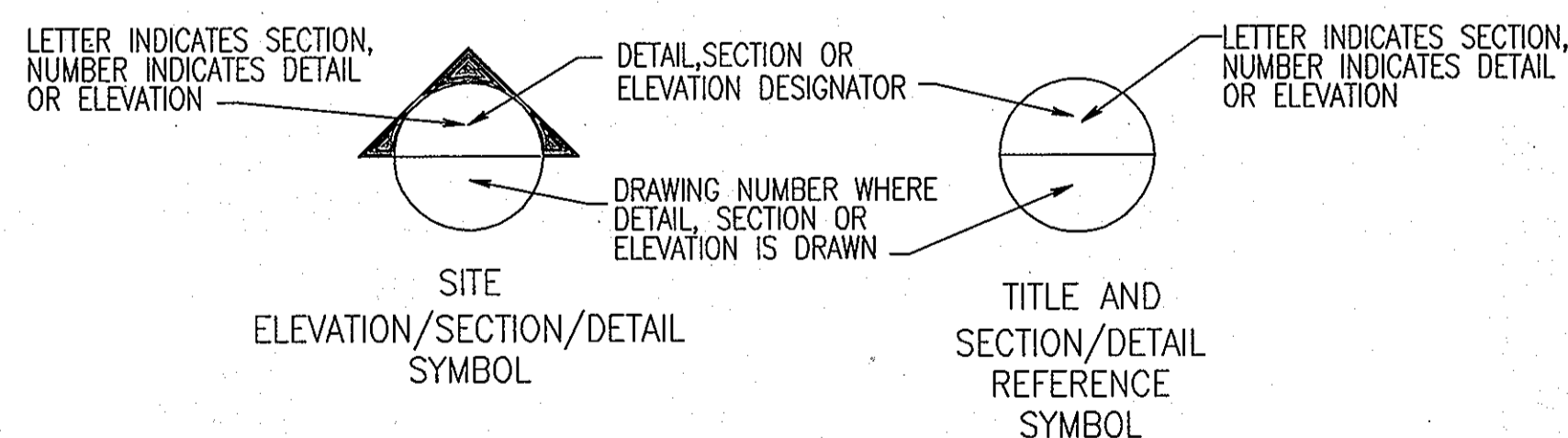
COVER SHEET
Drawing No.
C0.1
Scale: AS SHOWN
Date: 02/19/10 Sheet 1 of 51
Des: CYH Drawn: CJK Check: AUO
SDP-10-007

ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	OHE	OVERHEAD ELECTRIC
ABAND	ABANDON	OHT	OVERHEAD TELEPHONE
APPROX	APPROXIMATELY	PC	POINT OF CURVATURE
ASTM	ASSOCIATION FOR STANDARD TESTING METHODS	PCC	POINT OF COMPOUND CURVATURE
BLDG	BUILDING	PERF	PERFORATED
BIT	BITUMINOUS	PI	POINT OF INTERSECTION, POST INDICATOR
B.M.	BENCH MARK	PQB	POINT OF BEGINNING
CFS	CUBIC FEET PER SECOND	POC	POINT ON CURVE
C.I.	CAST IRON	POE	POINT OF END
C.I.P.	CAST IRON PIPE	POT	POINT ON TRAVERSE
C/L	CENTERLINE	PT	POINT OF TANGENCY
CO	CLEAN OUT	PVC	POLYVINYL CHLORIDE, POINT OF VERTICAL CURVE
COMM	COMMUNICATION	PVI	POINT OF VERTICAL INTERSECTION
CONTR. JT	CONTRACTION JOINT	PVMT	PAVEMENT
CONC	CONCRETE	PVT	POINT OF VERTICAL TANGENCY
CMP	CORRUGATED METAL PIPE	PP	POWER POLE
DEMO	DEMOLITION	PIV	POST INDICATOR VALVE
DIP	DUCTILE IRON PIPE	PROP	PROPOSED
DIA, DIAM	DIAMETER	R	RADIUS, RIGHT
DWG, DRWG	DRAWING	RD	ROAD
E	EAST	RCCP	REINFORCED CONCRETE CULVERT PIPE
EL, ELEV	ELEVATION	RCP	REINFORCED CONCRETE PIPE
ELECT, ELEC	ELECTRICAL	REIN, REINF	REINFORCED
EMBED	EMBEDDED	RR	RAILROAD
EX	EXISTING	S	SOUTH, SLOPE, SANITARY
EXP JT	EXPANSION JOINT	SAN	SANITARY
EW	EACH WAY	SCE	STABILIZED CONSTRUCTION ENTRANCE
F&C	FRAME AND COVER	SCH	SCHEDULE
FH	FIRE HYDRANT	SD	STORM DRAIN
FIN, FL, F.F.	FINISHED FLOOR	SDR	STANDARD DIMENSION RATIO
FT	FEET	SE	SOUTHEAST
FPS	FEET PER SECOND	SF	SILT FENCE
HB	HORIZONTAL BEND	SHT	SHEET
HO. CO.	HOWARD COUNTY	SP	STUDY POINT
HC	HANDICAPPED	SS	STAINLESS STEEL
HP	HIGH POINT	STA	STATION
IN	INCH	STD	STANDARD
INV	INVERT	STRUCT, STR	STRUCTURAL
IP	INLET PROTECTION	SW	SOUTHWEST
JT	JOINT	TEL	TELEPHONE
LT	LEFT	TS&V	TAPPING SLEEVE & VALVE
LOD	LIMIT OF DISTURBANCE	T/C	TOP OF CURB
LP	LOW POINT	TC	TOP OF COVER
MAX	MAXIMUM	TG	TOP OF GRATE
MECH	MECHANICAL	TW	TOP OF WALL
MH	MANHOLE	TYP	TYPICAL
MIN	MINIMUM	UG	UNDERGROUND
MW	MONITORING WELL	UE	UNDERGROUND ELECTRIC DUCT
N	NORTH	UMH	UNKNOWN MANHOLE
NE	NORTHEAST	UT	UNDERGROUND TELEPHONE DUCT
NTS	NOT TO SCALE	UFA	UNDERGROUND FIRE ALARM
NW	NORTHWEST	VB	VERTICAL BEND
OC, O/C	ON CENTER	VC	VERTICAL CURVE
OD	OUTSIDE DIAMETER	W	WEST, WATT, WATER, WIDE
		W/	WITH
		WWF	WELDED WIRE FABRIC

LEGEND

EXISTING	PROPOSED	DESCRIPTION
145	145	CONTOUR
X 145.50	145.50	SPOT ELEVATION
12"RCP	12"SD	STORM DRAIN
8"WATER	8"W	WATER
6"SAN	6"SAN	SANITARY SEWER
E	E	UNDERGROUND ELECTRIC
T	T	UNDERGROUND TELEPHONE
CONC	CONC	CONCRETE CURB AND GUTTER
MAC	MAC	FENCE
		BUILDING
		CONCRETE PAVEMENT
		HEAVY DUTY CONCRETE PAVEMENT
		BITUMINOUS CONCRETE PAVEMENT
		PLAYGROUND PAVEMENT
		WATER VALVE
		FIRE HYDRANT
		STORM DRAIN INLET
		STORM DRAIN MANHOLE
		SANITARY SEWER MANHOLE
		ELECTRIC MANHOLE
		TELEPHONE MANHOLE
		LIGHT POLE
		UTILITY POLE
		TRANSFORMER
		SWITCHGEAR
		UTILITY MARKER
		ELECTRIC JUNCTION BOX
		GUY WIRE
		SIGN
		BUSH/SHRUBS
		EVERGREEN TREE
		DECIDUOUS TREE
		HEDGEROW
		WOODSLINE
		RIPRAP
		CONNECT TO EXISTING
		15-24.9% SLOPES
		>25% SLOPES
		100-YR FLOODPLAIN
		STREAM
		75' STREAM BUFFER
		FLY MONUMENT
		GPS MONUMENT
		PHOTO TARGET
		SURVEY TRAVERSE MONUMENT
		LIMIT OF DISTURBANCE
		PROPERTY LINE
		SETBACK



REVISIONS	

HOWARD COUNTY

DEPARTMENT OF RECREATION AND PARKS
7120 OAKLAND MILLS ROAD
COLUMBIA, MD 21046

DEPARTMENT OF PUBLIC WORKS
9250 BENDIX ROAD
ELLICOTT CITY, MD 21043

WR&A

WHITMAN, REQUARDT & ASSOCIATES, LLP
801 South Caroline Street, Baltimore, Maryland 21231
Phone: 410-235-3450 Fax: 410-243-5716

PROPERTY

TAX MAP 36, GRID 5, PARCEL 3,72

ZONING: RC-DEO

ELECTION DISTRICT 3/7

GRAPHIC SCALES

SIGNATURE

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19376
EXPIRATION DATE: 09/22/2011

BLANDAIR REGIONAL PARK - PHASE 1

ABBREVIATIONS, NOTES AND LEGENDS

Drawing No. **C0.2**

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 3/5/10
CHIEF, DEVELOPMENT ENGINEERING DIVISION

[Signature] 4/28/10
CHIEF, DIVISION OF LAND DEVELOPMENT

[Signature] 4/8/10
DIRECTOR

APPROVED: FOR PUBLIC WATER AND SEWERAGE SYSTEMS

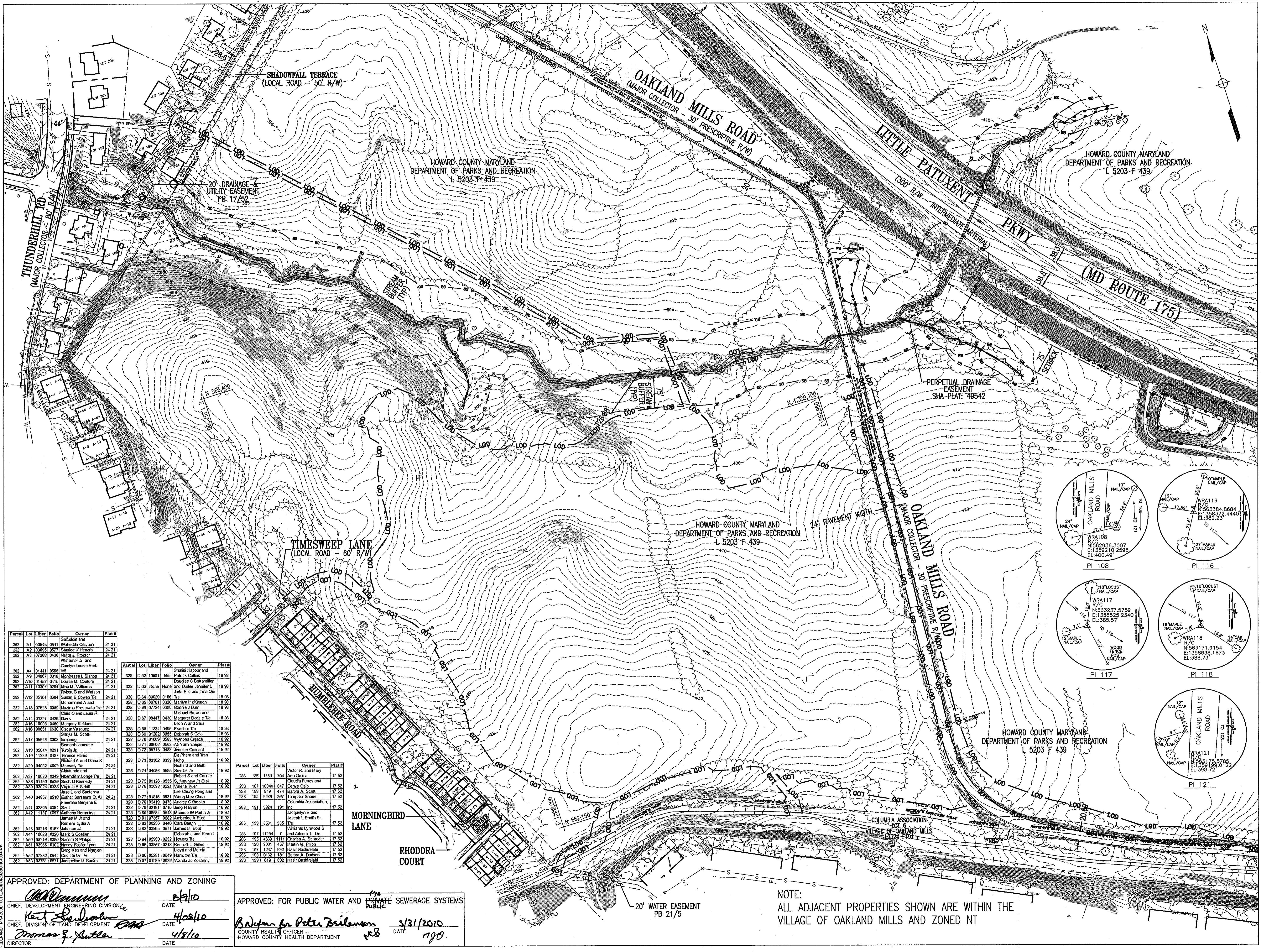
[Signature] 3/31/2010
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT

[Signature] 1790
DATE

Scale: NONE

Date: 02/19/10 Sheet 2 of 51

Des: CJK Drawn: CJK Check: AUO



REVISIONS	

HOWARD COUNTY
 DEPARTMENT OF RECREATION AND PARKS
 7120 OAKLAND MILLS ROAD
 COLUMBIA, MD 21046

DEPARTMENT OF PUBLIC WORKS
 9250 BENDIX ROAD
 ELLICOTT CITY, MD 21043

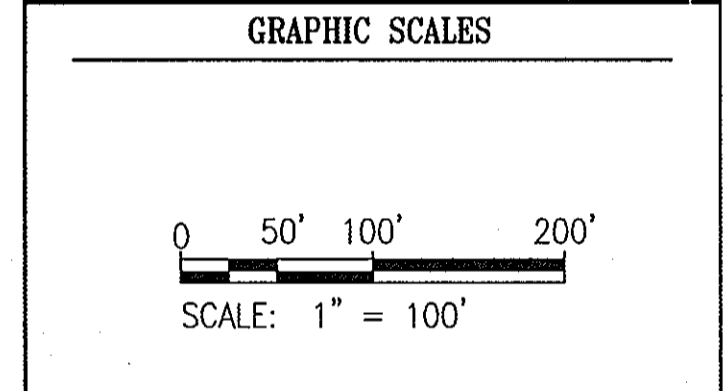
WR&A
 WHITMAN, REQUARDT & ASSOCIATES, LLP
 801 South Caroline Street, Baltimore, Maryland 21231
 Phone: 410-235-3450 Fax: 410-243-5716

PROPERTY

TAX MAP 36, GRID 5, PARCEL 3,72

ZONING: RC-DEO

ELECTION DISTRICT 3/7



SIGNATURE

PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19376
 EXPIRATION DATE: 09/22/2011

BLANDAIR REGIONAL PARK - PHASE 1

EXISTING SITE PLAN

Drawing No.
C1.0

Scale: 1" = 100'

Date: 02/19/10 Sheet 3 of 51

Des: CYH Drawn: CYH Check: AUO

Parcel	Lot	Libor	Folio	Owner	Plate
362	A1	00945	0541	Shaddad and	24 21
362	A2	03853	0277	Waheda Oaburn	24 21
362	A3	07393	0439	Sharon K Hendry	24 21
362	A4	01441	0565	William F J and Carolyn Louise Verb	24 21
362	A9	04887	0018	Monressa L Bishop	24 21
362	A10	01458	0415	Louise M. Coakley	24 21
362	A11	03097	0204	None	24 21
362	A12	05101	0504	Robert B and Watson Susan B Coakley	24 21
362	A13	07525	0059	Michael and Naama Presswala	24 21
362	A14	03327	0426	Chris C and Laura R Davis	24 21
362	A15	10093	0460	Marquay Kikkand	24 21
362	A16	09651	0630	Oscar Vasquez	24 21
362	A17	05548	0903	None	24 21
362	A18	05044	0291	Bernard Lawrence	24 21
362	A19	11529	0487	Terence Harris	24 21
362	A20	04032	0092	Richard A and Diana K Mcnamara	24 21
362	A21	10980	0249	Akronside and Abundant Longe	24 21
362	A22	01460	0928	Scott J Kennedy	24 21
362	A23	03294	0338	Virginia E Schilf	24 21
362	A24	04657	0510	John L and Barbara E Fisher	24 21
362	A25	02955	0584	Freeman Berjane E	24 21
362	A26	11137	0397	Anthony Manning	24 21
362	A27	02219	0197	James M Jr and Romero Lydia A Johnson	24 21
362	A28	10028	0220	Mark S Gosler	24 21
362	A29	08218	0380	Sandra S Phelps	24 21
362	A30	03959	0302	Nancy Foster Lyon	24 21
362	A31	07882	0544	Phong Van and Nguyen Cuc Thi Ly	24 21
362	A32	03761	0571	Jacqueline M Banks	24 21

Parcel	Lot	Libor	Folio	Owner	Plate
328	D 62	10291	595	Shahid Kapoor and Patrick Collins	18 93
328	D 63	None	None	Douglas C Botamiller and Darlene Jennifer L	18 93
328	D 64	08029	0185	Jude Elio and Irma Qu	18 93
328	D 65	02701	0220	Sharon M Kinross	18 93
328	D 66	07724	0388	Boonka J Durr	18 93
328	D 67	06447	0430	Michael Brown and Margaret Debra Te	18 93
328	D 68	11334	0456	Leon A and Sara Escobar	18 93
328	D 69	01292	0520	Osborn S Cole	18 93
328	D 70	01899	0583	Wynona Creech	18 92
328	D 71	09026	0563	Jan Yamamoto	18 92
328	D 72	02715	0483	Do Phan and Tran Hong	18 92
328	D 73	03382	0388	Richard and Beth Snyder	18 92
328	D 74	04306	0585	Robert S and Corrie St. Mathias Jr Etal	18 92
328	D 75	09126	0550	Valerie Tyler	18 92
328	D 76	03268	0221	Lee Chung Hong and Phung Mien Chin	18 92
328	D 77	01816	0531	Audrey C Brooks	18 92
328	D 78	05419	0473	Angela H Byun	18 92
328	D 79	02181	0710	James W Pralin Jr	18 92
328	D 80	02584	0520	Jarvis A Rust	18 92
328	D 81	07397	0582	Casa Santa	18 92
328	D 82	05256	0440	James M Trout	18 92
328	D 83	03395	0871	Deborah L and Kevin T Howard	18 92
328	D 84	05959	0252	William Lymond S and Alicia T. Lte	18 92
328	D 85	03957	0210	Charles A. Schroder	18 92
328	D 86	03957	0210	Martha M. Pugh	18 92
328	D 87	03957	0210	Edward M. Pugh	18 92
328	D 88	05281	0549	Nisar Bashirah	18 92
328	D 89	05281	0549	Barbra A. Dodson	18 92
328	D 90	05281	0549	Nisar Bashirah	18 92

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Robert W. Reardon 2/19/10
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

Kurt Seidenman 4/28/10
 CHIEF, DIVISION OF LAND DEVELOPMENT

Thomas E. Xutler 4/8/10
 DIRECTOR

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS

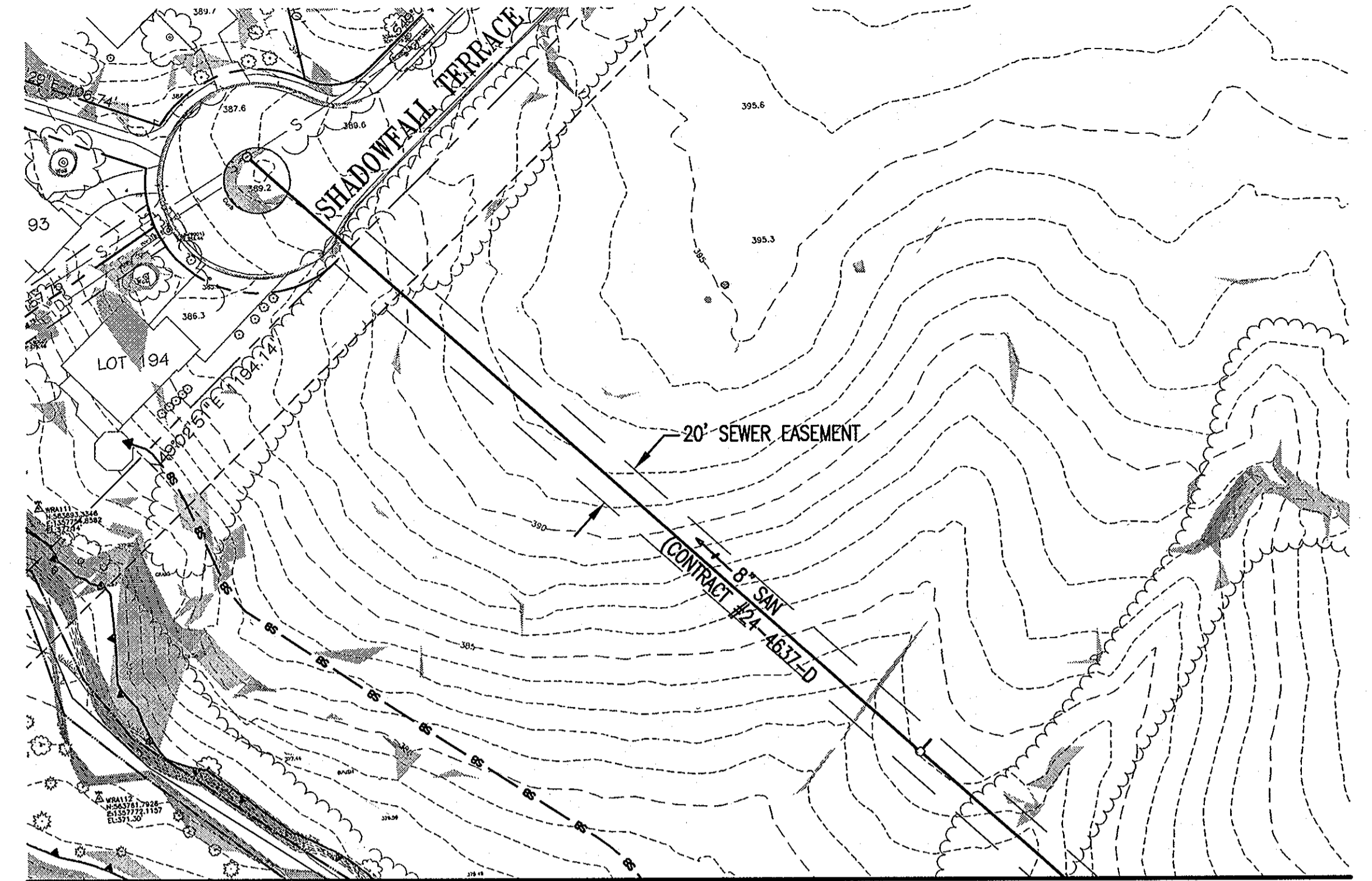
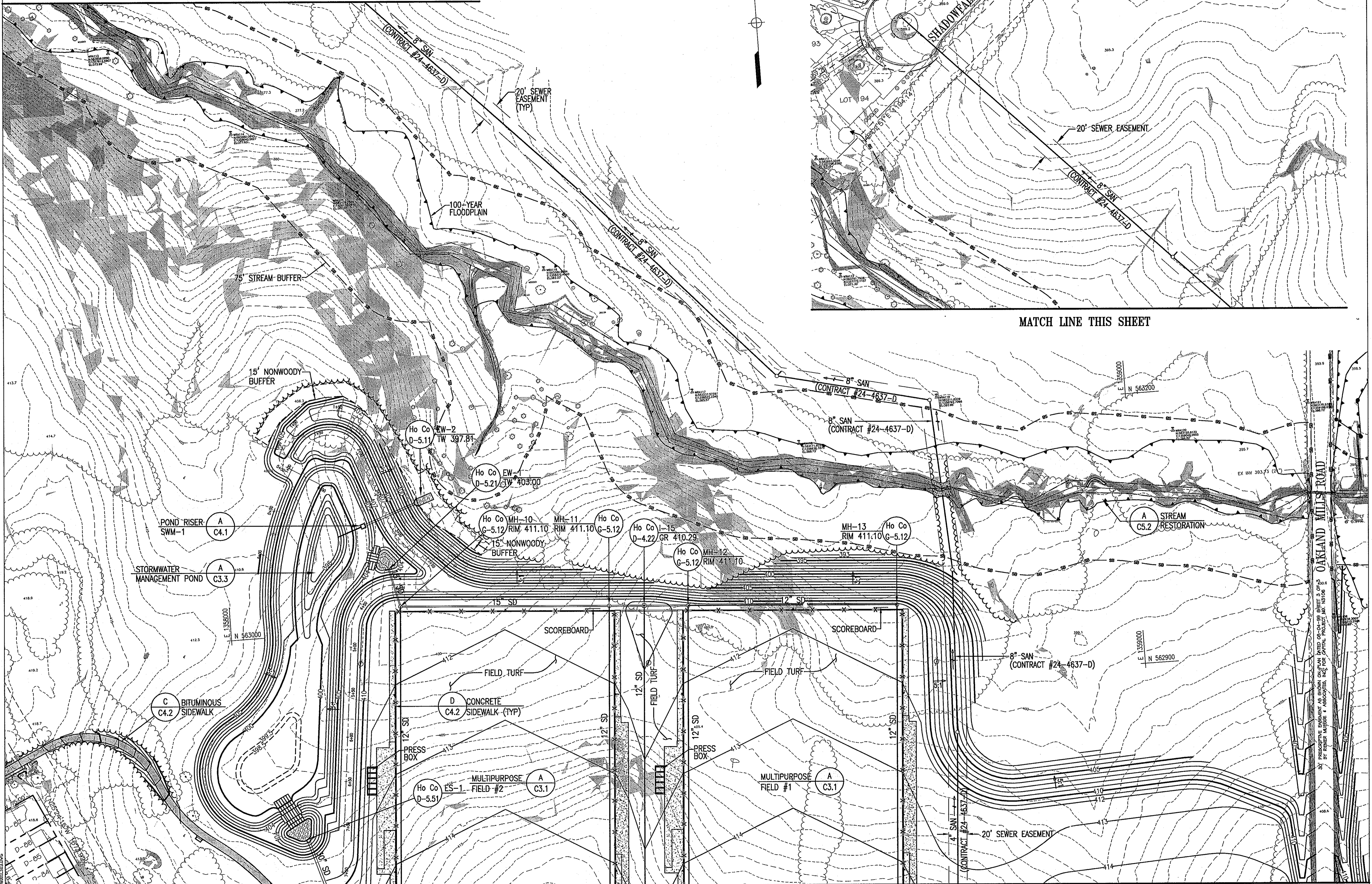
Robert W. Reardon 3/31/2010
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

John J. ... 1/9/0
 DATE

NOTE:
 ALL ADJACENT PROPERTIES SHOWN ARE WITHIN THE VILLAGE OF OAKLAND MILLS AND ZONED NT

PLOT DATE: 2/19/2010 9:08:47 AM PAGE SETUP: SETS CHASO: PLOT STYLE: WPL_BMG.CTB PAPER SIZE: ARCH D 36.00 X 24.00 INCHES
 FILENAME: N:\2009-2010\CAD\42830000.DWG

MATCH LINE THIS SHEET



MATCH LINE THIS SHEET

REVISIONS	

HOWARD COUNTY

DEPARTMENT OF RECREATION AND PARKS
7120 OAKLAND MILLS ROAD
COLUMBIA, MD 21046

DEPARTMENT OF PUBLIC WORKS
9250 BENDIX ROAD
ELLCOTT CITY, MD 21043

WR&A

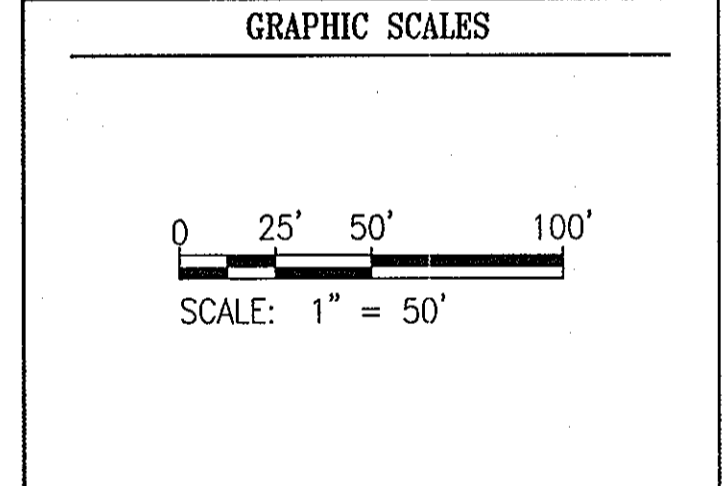
WHITMAN, REQUARDT & ASSOCIATES, LLP
801 South Caroline Street, Baltimore, Maryland 21231
Phone: 410-235-3450 Fax: 410-243-6716

PROPERTY

TAX MAP 36, GRID 5, PARCEL 3,72

ZONING: RC-DEO

ELECTION DISTRICT 3/7



SIGNATURE

PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19376, EXPIRATION DATE: 09/22/2011.

BLANDAIR REGIONAL PARK - PHASE 1

SITE PLAN B

Drawing No. **C1.3**

Scale: 1" = 50'

Date: 02/19/10 Sheet 6 of 51

Des: CYH Drawn: CYH Check: AUO

APPROVED: DEPARTMENT OF PLANNING AND ZONING

John D. ... 3/9/10
CHIEF, DEVELOPMENT ENGINEERING DIVISION

... 4/28/10
CHIEF, DIVISION OF LAND DEVELOPMENT

... 4/9/10
DIRECTOR

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS

Brian ... 3/31/2010
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT

... 1/9/0
DATE

MATCH LINE SEE DWG. C1.2



PLOT DATE: 2/19/2010 9:40:58 AM PAGE SETUP: SETS (24X36) PLOT STYLE: WPA_PLOT.ctb PAPER: B3 (36" X 48") INCHES

PARKING LOT STAKEOUT

POINT	NORTHING	EASTING	R	Δ	T
C1	561975.55	1359129.94	40.00	079°07'45"	33.05'
C2	561963.13	1359049.36	76.00	065°03'52"	48.48'
C3.1	562007.76	1359019.60	20.00	028°57'18"	5.16'
C3.2	562013.00	1359009.47	5.00	090°00'00"	5.00'
P1	561997.02	1359001.20	-	-	-
P2	562042.50	1358913.27	-	-	-
C4	562058.48	1358921.53	6.00	090°00'00"	6.00'
C5	562069.51	1358900.22	6.00	090°00'00"	6.00'
P3	562053.52	1358891.95	-	-	-
P4	562114.00	1358780.03	-	-	-
C6	562143.93	1358756.32	6.00	090°00'00"	6.00'
P5	562152.20	1358740.33	-	-	-
P6	562248.13	1358789.95	-	-	-

PARKING LOT STAKEOUT

POINT	NORTHING	EASTING	R	Δ	T
C7	562239.86	1358805.94	6.00	090°00'00"	6.00'
C8	562258.51	1358815.58	6.00	090°00'00"	6.00'
P7	562266.78	1358799.60	-	-	-
P8	562376.03	1358856.10	-	-	-
C9	562367.77	1358872.09	6.00	090°00'00"	6.00'
C10	562386.42	1358881.74	6.00	090°00'00"	6.00'
P9	562394.69	1358865.75	-	-	-
P10	562453.31	1358896.07	-	-	-
C11	562445.04	1358912.06	5.00	090°00'00"	5.00'
C12	562497.17	1358939.02	72.00	054°15'27"	36.89'
P11	562520.76	1358908.88	-	-	-
C13	562512.33	1358910.24	15.00	045°00'00"	6.21'
C14	562519.83	1358916.04	40.00	077°34'18"	32.14'

SIDEWALK STAKEOUT

POINT	NORTHING	EASTING	R	Δ	T
C15	562483.07	1359158.57	40.00	102°50'13"	50.14'
C16	562462.07	1359016.26	15.00	144°15'27"	46.52'
C17	562401.77	1359132.86	-	-	-
C18	562305.84	1359083.24	6.00	090°00'00"	6.00'
P12	562297.57	1359099.23	-	-	-
C19	562177.66	1359037.21	-	-	-
P13	562155.96	1359079.17	30.00	075°31'21"	23.24'
C20	562128.78	1359072.96	6.00	075°31'21"	4.65'
P14	562120.60	1359088.76	-	-	-
P15	562048.66	1359051.55	-	-	-
C21	562056.93	1359035.56	6.00	090°00'00"	6.00'
C22	562032.94	1359023.16	6.00	090°00'00"	6.00'
C23	561978.81	1359127.82	40.00	119°09'01"	68.11'

PLAYGROUND STAKEOUT

POINT	NORTHING	EASTING
40	562497.54	1358742.89

PATHWAY STAKEOUT

POINT	NORTHING	EASTING	R	Δ	T
50	562152.04	1358730.49	-	-	-
51	562226.49	1358886.54	375.00	033°31'46"	112.97'
52	562207.19	1358315.17	-	-	-
53	562167.45	1358308.63	70.00	034°28'41"	21.72'
54	562115.04	1358258.33	55.00	055°09'52"	28.73'
55	562175.01	1358111.30	275.00	090°59'03"	279.76'
56	562610.48	1358079.05	42.00	093°04'38"	44.32'
57	562625.18	1358079.64	81.51	058°13'41"	45.40'
58	562704.82	1358063.11	250.00	048°21'38"	112.25'
65	562109.69	1358713.09	40.00	055°32'42"	21.07'
66	562047.12	1358746.64	50.00	048°23'50"	22.47'

STAKEOUT NOTES

1. ALL PARKING LOT STAKEOUT IS FROM FACE OF CURB, UNLESS OTHERWISE NOTED.
2. ALL CURB FILLETS ARE 6' UNLESS OTHERWISE NOTED.
3. ALL CONCRETE SIDEWALK FILLETS ARE 5' UNLESS OTHERWISE NOTED.
4. ALL ASPHALT PATHWAY FILLETS ARE 15' UNLESS OTHERWISE NOTED.
5. ATHLETIC FIELD STAKEOUT ARE AT C/L OF FENCE.
6. CURVE COORDINATES SHOWN ARE AT THE POINT OF INTERSECTION.

REVISIONS

NO.	DESCRIPTION	DATE
1	PARKING LOT EXPANSION	01/31/14

HOWARD COUNTY

DEPARTMENT OF RECREATION AND PARKS
7120 OAKLAND MILLS ROAD
COLUMBIA, MD 21046

DEPARTMENT OF PUBLIC WORKS
9250 BENDIX ROAD
ELLICOTT CITY, MD 21043



WHITMAN, REQUARDT & ASSOCIATES, LLP
801 South Caroline Street, Baltimore, Maryland 21231
Phone: 410-235-3450 Fax: 410-243-5716

PROPERTY
TAX MAP 36, GRID 5, PARCEL 3,72
ZONING: RC-DEO
ELECTION DISTRICT 3/7

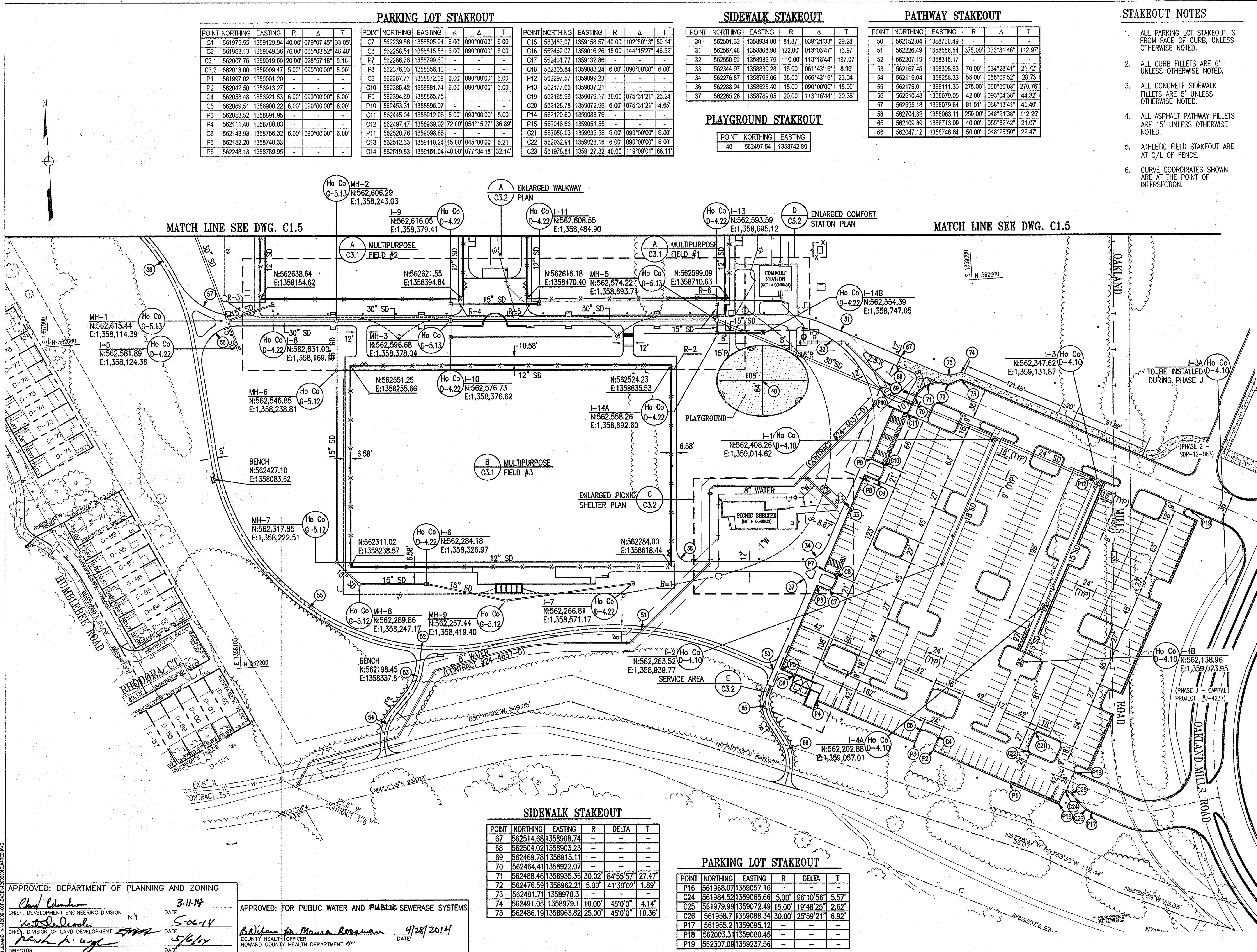
GRAPHIC SCALES
0 25' 50' 100'
SCALE: 1" = 50'

SIGNATURE

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19376
EXPIRATION DATE: 09/22/2015

BLANDAIR REGIONAL PARK - PHASE 1

STAKEOUT PLAN A
Drawing No.
C1.4
Scale: 1" = 50'
Date: 11/16/2012 Sheet 7 of 65
Des: CYH Drawn: CYH Check: AU0
SDP-10-007



APPROVED: DEPARTMENT OF PLANNING AND ZONING
Chief Development Engineering Division
Date: 3-11-14
Date: 5-06-14
Date: 5/6/14

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
Blairman for Mauna Roseman
County Health Officer
Howard County Health Department
Date: 4/28/2014

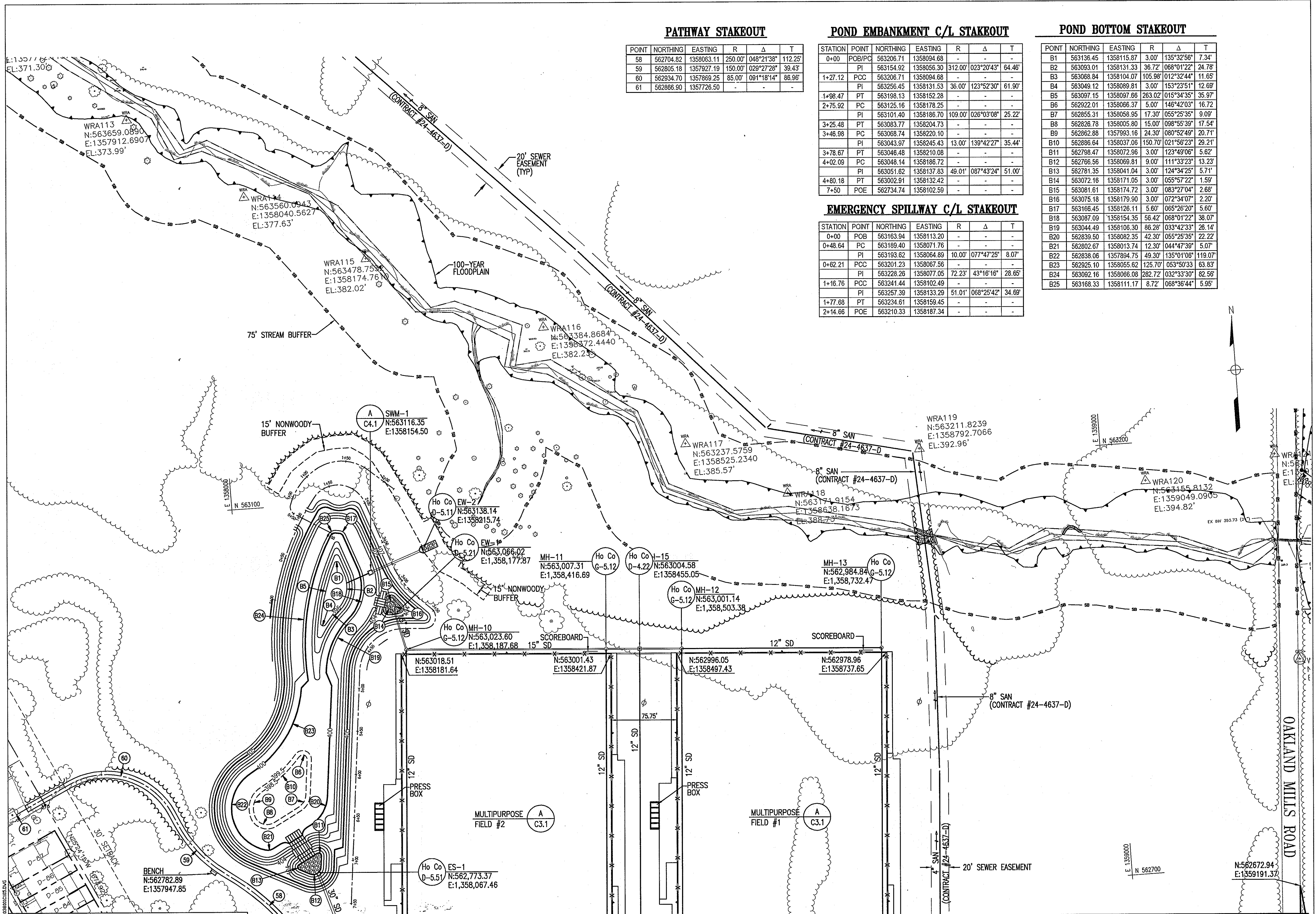
SIDEWALK STAKEOUT

POINT	NORTHING	EASTING	R	DELTA	T
67	562514.68	1358908.74	-	-	-
68	562504.02	1358903.23	-	-	-
69	562469.78	1358915.11	-	-	-
70	562464.41	1358922.07	-	-	-
71	562488.46	1358935.36	30.02	84°55'57"	27.47'
72	562476.59	1358962.21	5.00	41°30'02"	1.89'
73	562481.71	1358978.3	-	-	-
74	562491.05	1358979.1	10.00	45°0'0"	4.14'
75	562486.19	1358963.82	25.00	45°0'0"	10.36'

PARKING LOT STAKEOUT

POINT	NORTHING	EASTING	R	DELTA	T
P16	561968.07	1359057.16	-	-	-
C24	561984.52	1359065.66	5.00	96°10'56"	5.57'
C25	561979.99	1359072.49	15.00	19°48'25"	2.62'
C26	561958.7	1359088.34	30.00	25°59'21"	6.92'
P17	561955.2	1359095.12	-	-	-
P18	562003.31	1359080.45	-	-	-
P19	562307.09	1359237.56	-	-	-

FILED: 11/16/2012 10:43 AM PAGE 7 OF 10 PLOT TITLE: WRA_PP_C06240 FLUT STYLE: WRA_PP_C06240 PAPER SIZE: 36x62



PATHWAY STAKEOUT

POINT	NORTHING	EASTING	R	Δ	T
58	562704.82	1358063.11	250.00'	048°21'38"	112.25'
59	562805.18	1357927.19	150.00'	029°27'28"	39.43'
60	562934.70	1357869.25	85.00'	091°18'14"	86.96'
61	562866.90	1357726.50	-	-	-

POND EMBANKMENT C/L STAKEOUT

STATION	POINT	NORTHING	EASTING	R	Δ	T
0+00	POB/PC	563206.71	1358094.68	-	-	-
	PI	563154.92	1358056.30	312.00'	023°20'43"	64.46'
1+27.12	PCC	563206.71	1358094.68	-	-	-
	PI	563256.45	1358131.53	36.00'	123°52'30"	61.90'
1+98.47	PT	563198.13	1358152.28	-	-	-
2+75.92	PC	563125.16	1358178.25	-	-	-
	PI	563101.40	1358186.70	109.00'	026°03'08"	25.22'
3+25.48	PT	563083.77	1358204.73	-	-	-
3+46.98	PC	563068.74	1358220.10	-	-	-
	PI	563043.97	1358245.43	13.00'	139°42'27"	35.44'
3+78.67	PT	563046.48	1358210.08	-	-	-
4+02.09	PC	563048.14	1358186.72	-	-	-
	PI	563051.62	1358137.83	49.01'	087°43'24"	51.00'
4+80.18	PT	563002.91	1358132.42	-	-	-
7+50	POE	562734.74	1358102.59	-	-	-

POND BOTTOM STAKEOUT

POINT	NORTHING	EASTING	R	Δ	T
B1	563136.45	1358115.87	3.00'	135°32'56"	7.34'
B2	563093.01	1358131.33	36.72'	068°01'22"	24.78'
B3	563068.84	1358104.07	105.98'	012°32'44"	11.66'
B4	563049.12	1358099.81	3.00'	153°23'51"	12.69'
B5	563097.15	1358097.66	263.02'	015°34'35"	35.97'
B6	562922.01	1358066.37	5.00'	146°42'03"	16.72'
B7	562855.31	1358058.95	17.30'	055°25'35"	9.09'
B8	562826.78	1358005.80	15.00'	098°55'39"	17.54'
B9	562862.88	1357993.16	24.30'	080°52'49"	20.71'
B10	562866.64	1358037.06	150.70'	021°56'23"	29.21'
B11	562798.47	1358072.96	3.00'	123°49'06"	5.62'
B12	562766.56	1358069.81	9.00'	111°33'23"	13.23'
B13	562781.35	1358041.04	3.00'	124°34'25"	5.71'
B14	563072.16	1358171.05	3.00'	055°57'22"	1.59'
B15	563081.61	1358174.72	3.00'	083°27'04"	2.68'
B16	563075.18	1358179.90	3.00'	072°34'07"	2.20'
B17	563166.45	1358126.11	5.60'	065°26'20"	5.60'
B18	563087.09	1358154.35	56.42'	068°01'22"	38.07'
B19	563044.49	1358106.30	86.28'	033°42'33"	26.14'
B20	562839.50	1358082.35	42.30'	055°25'35"	22.22'
B21	562802.67	1358013.74	12.30'	044°47'39"	5.07'
B22	562838.06	1357894.75	49.30'	135°01'06"	119.07'
B23	562925.10	1358055.62	125.70'	053°50'33"	63.83'
B24	563082.16	1358066.08	282.72'	032°33'30"	82.56'
B25	563168.33	1358111.17	8.72'	068°36'44"	5.95'

EMERGENCY SPILLWAY C/L STAKEOUT

STATION	POINT	NORTHING	EASTING	R	Δ	T
0+00	POB	563163.94	1358113.20	-	-	-
0+48.64	PC	563189.40	1358071.76	-	-	-
	PI	563193.62	1358064.89	10.00'	077°47'25"	8.07'
0+62.21	PCC	563201.23	1358067.56	-	-	-
	PI	563228.26	1358077.05	72.23'	43°18'18"	28.65'
1+16.76	PCC	563241.44	1358102.49	-	-	-
	PI	563257.39	1358133.29	51.01'	068°25'42"	34.69'
1+77.68	PT	563234.61	1358159.45	-	-	-
2+14.66	POE	563210.33	1358187.34	-	-	-

REVISIONS

HOWARD COUNTY
 DEPARTMENT OF RECREATION AND PARKS
 7120 OAKLAND MILLS ROAD
 COLUMBIA, MD 21046

DEPARTMENT OF PUBLIC WORKS
 9250 BENDIX ROAD
 ELLICOTT CITY, MD 21043

WR&A
 WHITMAN, REQUARDT & ASSOCIATES, LLP
 801 South Caroline Street, Baltimore, Maryland 21231
 Phone: 410-235-3450 Fax: 410-243-9716

PROPERTY

TAX MAP 36, GRID 5, PARCEL 3,72

ZONING: RC-DEO

ELECTION DISTRICT 3/7

GRAPHIC SCALES

0 25' 50' 100'

SCALE: 1" = 50'

SIGNATURE

PROFESSIONAL CERTIFICATION
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BLANDAIR REGIONAL PARK - PHASE 1

STAKEOUT PLAN B

Drawing No. **C1.5**

Scale: 1" = 50'

Date: 02/19/10 Sheet 8 of 51

Des: CYH Drawn: CYH Check: AUO

SDP-10-007

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 3/10
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

[Signature] 4/08/10
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

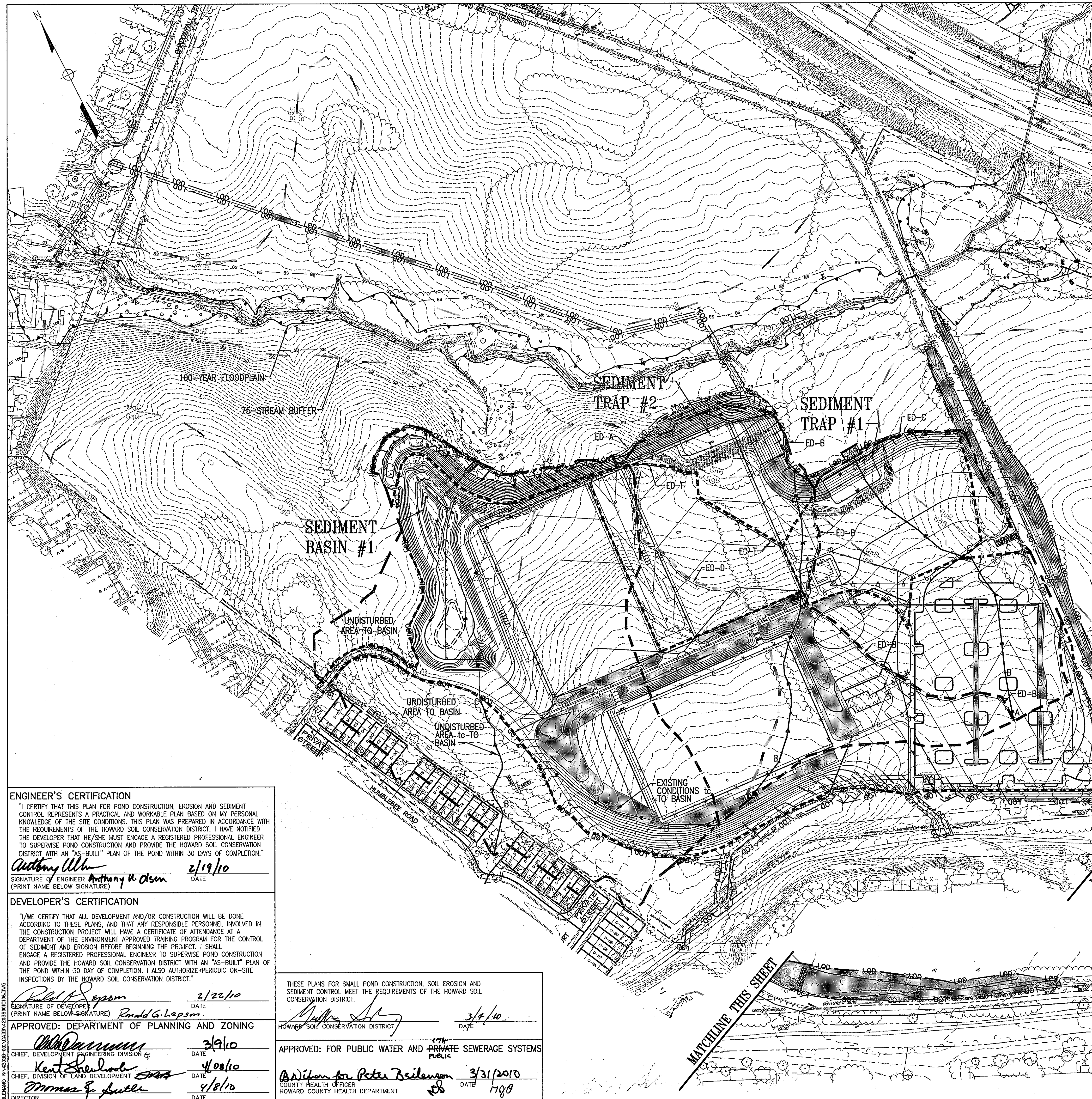
[Signature] 4/8/10
 DIRECTOR DATE

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS

[Signature] 3/31/2010
 COUNTY HEALTH OFFICER DATE

[Signature] 1/9/10
 HOWARD COUNTY HEALTH DEPARTMENT DATE

MATCH LINE SEE DWG. C1.4



SEQUENCE OF CONSTRUCTION

- OBTAIN A GRADING PERMIT AND ARRANGE FOR AN ON-SITE PRE-CONSTRUCTION MEETING. (1 DAY)
- NOTIFY THE SEDIMENT CONTROL INSPECTION OFFICE 24 HOURS PRIOR TO CONSTRUCTION. (1 DAY)
- FOR ROAD CONSTRUCTION, INSTALL SUPER SILT FENCE AT DOWNSTREAM END OF LIMIT OF OAKLAND MILLS ROAD SWALES AND ALONG WEST SIDE OF THE WEST DITCH, STARTING FROM DOWNSTREAM END, CONSTRUCT WIDENING OF OAKLAND MILLS ROAD/ADJACENT SWALES IN DAILY SEGMENTS AND PERMANENTLY STABILIZE WITH EROSION CONTROL MATTING AT END OF EACH WORK DAY. INSTALL IMBRICATED SILT FENCE BETWEEN ROAD EDGE AND SWALE. INSTALL STABILIZED CONSTRUCTION ENTRANCE UPON REACHING OAKLAND MILLS ROAD SWALE AREA AS SHOWN ON SHEET C1.7. (1 MONTH)
- FOR PARK CONSTRUCTION, INSTALL THE STONE CONSTRUCTION ENTRANCES AND SILT FENCE/SUPER SILT FENCE FOR CONSTRUCTION OF SEDIMENT TRAPS #1, AND #2. (1 WEEK)
- CLEAR AND GRUB AS NECESSARY FOR CONSTRUCTION OF SEDIMENT TRAPS #1 AND #2. CONSTRUCT TRAPS AND UPSTREAM OF TRAPS INSTALL EARTH DIKES ED-A, ED-B, ED-C AND ED-D TO DIRECT RUNOFF TOWARDS SEDIMENT TRAPS. INSTALL HIGHLY VISIBLE FENCE (HVF) ON INTERNAL EARTH DIKES ED-B AND ED-D. MAINTAIN POSITIVE DRAINAGE ALONG ALL EARTH DIKES DURING CONSTRUCTION. SEE SHEET C1.7 AND C1.8 FOR LOCATION OF EARTH DIKES AND GRADING OF TRAPS. (1 MONTH)
- INSTALL IMBRICATED SILT FENCE AND SUPER SILT FENCE FOR CONSTRUCTION OF SEDIMENT BASIN. UPON APPROVAL OF SEDIMENT CONTROL INSPECTOR, CLEAR AND GRUB AS NECESSARY FOR CONSTRUCTION OF SEDIMENT BASIN EMBANKMENT. UPON VERIFICATION FROM THE NATIONAL WEATHER SERVICE OF NEXT 5 DAY NO PRECIPITATION FORECAST, BEGIN CONSTRUCTION OF BASIN EMBANKMENT, RISER R-1 AND PRINCIPAL SPILLWAY. INSTALL DRAW-DOWN DEVICE IN RISER. SEE SHEET C1.8 FOR GRADING OF BASIN EMBANKMENT. (1 MONTH)
- UPON COMPLETION OF SEDIMENT BASIN EMBANKMENT, INSTALL IMBRICATED SILT FENCE ON ALONG SOUTH PROPERTY LINE. UPON APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, BEGIN GRADING OF ENTIRE SITE AS SHOWN ON SHEET C1.7 AND C1.9. ADJUST EARTH DIKES AS NECESSARY TO MAINTAIN POSITIVE DRAINAGE. GRADE TO LIMIT OF TEMPORARY GRADES OF SEDIMENT TRAPS #1 AND #2 AS SHOWN ON SHEET C1.9. UPON COMPLETION OF GRADING TO TEMPORARY LIMITS OF SEDIMENT TRAP #2, INSTALL EARTH DIKE (ED-E) W/HVF AND ED-F UPSTREAM OF TRAP #2 TO DIVERT RUNOFF TO BASIN. UPON APPROVAL OF SEDIMENT CONTROL INSPECTOR, REMOVE EARTH DIKE ED-A, ED-B, ED-C AND ED-D. (3 MONTHS)
- INSTALL ALL UTILITIES AND COORDINATE WITH GRADING OPERATION. DURING INSTALLATION OF SANITARY AND WATER, ONLY EXCAVATE AMOUNT OF TRENCH TO ALLOW INSTALLATION OF PIPE AND BACKFILL WITHIN 1 WORK DAY. PLACE EXCAVATED MATERIAL ON UPHILL SIDED OF TRENCH AND IMMEDIATELY STABILIZE ALL DISTURBED AREA AROUND TRENCH AT THE END OF EACH WORK DAY. (1 MONTH)
- BEGIN PICNIC SHELTER AND COMFORT STATION CONSTRUCTION. (3 MONTHS)
- INSTALL SUBBASE FOR SYNTHETIC ATHLETIC FIELDS AND PARKING LOT. (1 MONTH)
- INSTALL ATHLETIC FIELD CURB, PARKING CURB AND GUTTER, SIDEWALKS AND PAVE ALL AREAS TO BE PAVED. (1 MONTH)
- STABILIZE ALL OTHER AREAS WITH PERMANENT SEEDING, MULCH, AND LANDSCAPING. INSTALLATION OR THE FINAL PAVEMENT COURSE MUST BE INSPECTED BY THE ON-SITE GEO-TECHNICAL ENGINEER. COMPLETE UTILITY, BUILDING AND REMAINING SITE CONSTRUCTION. (1 MONTH)
- STABILIZE ALL UPSTREAM DRAINAGE AREA TO TRAP#1. EARTH DIKE W/HVF (ED-E) UPSTREAM OF TRAP #2 TO REMAIN DIVERTING RUNOFF TO BASIN UNTIL STORM DRAIN FROM ES-1 TO I-3 IS COMPLETED. WHEN ALL RUNOFF IS FLOWING INTO THE INLETS AND WITH APPROVAL OF SEDIMENT CONTROL INSPECTOR, REMOVE ED-E. (1 WEEK)
- MAINTAIN SILT FENCE PROTECTION DOWNSTREAM OF SEDIMENT TRAPS. WITH APPROVAL OF SEDIMENT CONTROL INSPECTOR, FILL IN SEDIMENT TRAPS #1 AND #2 AND COMPLETE FINAL GRADES OVER TRAPS AS SHOWN ON SHEET C1.9. BACKFILL OF SEDIMENT TRAPS SHALL BE WITH SUITABLE MATERIAL AS APPROVED BY THE GEOTECHNICAL ENGINEER AND COMPACTED/TESTED AS DEFINED BY THE SPECIFICATIONS. (1 WEEK)
- COMPLETE STORM DRAIN CONSTRUCTION, ATHLETIC TURF SUBBASE AND CURBING ALONG NORTH ATHLETIC FIELDS. (2 WEEKS)
- INSTALL SYNTHETIC ATHLETIC TURF SURFACE AND FENCE CONSTRUCTION. (2 WEEKS)
- FLUSH AND PUMP CLEAN THE STORM DRAIN SYSTEM. (1 DAY)
- WITH PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR, CONVERT THE SEDIMENT BASIN TO THE STORMWATER MANAGEMENT FACILITY AND COMPLETE FINAL GRADING. SEE SHEET C3.3. CONSTRUCT FOREBAYS AND GABION MATTRESSES AND STORMWATER MANAGEMENT LANDSCAPING. REMOVE TEMPORARY DRAW-DOWN DEVICE FROM RISER AND INSTALL ALL TRASH RACKS. (1 MONTH)
- UPON PERMANENT STABILIZATION OF ALL DISTURBED AREAS AND WITH APPROVAL OF SEDIMENT CONTROL INSPECTOR, REMOVE ANY REMAINING SEDIMENT CONTROL DEVICES AND ALL NON-NATURAL ITEMS FROM FORESTS, FLOODPLAIN, STREAMS, WETLANDS AND THEIR BUFFERS.

- ***ALL ROOT PRUNING SHALL BE COMPLETED PRIOR TO ANY CONSTRUCTION ACTIVITIES
- ***NO CLEARING OR GRUBBING SHALL COMMENCE PRIOR TO THE INSTALLATION OF THE TREE PROTECTION FENCING AND SIGNAGE ADJACENT TO THE CLEARING/GRUBBING AREA WHERE APPLICABLE.
- ***TREE PROTECTION FENCING AND SIGNAGE SHOULD BE INSTALLED SIMULTANEOUSLY WITH SILT FENCE/SUPER SILT FENCE/IMBRICATED SILT FENCE AND PRIOR TO INSTALLATION OF EARTH DIKES. (STEPS 3, 4, 5, AND 6)
- ***ALL TREE PROTECTION FENCING AND SIGNAGE AS INDICATED ON FOREST CONSERVATION PLAN SHEETS FCP02 THROUGH FCP06 SHALL BE INSTALLED IN STEPS 1 THROUGH 6, BEFORE BEGINNING ROUGH GRADING OF THE ENTIRE SITE.
- ***TREE PROTECTION FENCING AND SPECIMEN TREE SIGNAGE SHALL BE REMOVED UPON PERMANENT STABILIZATION OF ALL DISTURBED AREAS. FOREST RETENTION SIGNAGE SHALL REMAIN. (STEP 17)

LEGEND

- EXISTING DRAINAGE DIVIDE
- - - - - PROPOSED DRAINAGE DIVIDE
- · - · - INTERMEDIATE DRAINAGE DIVIDE
- - - - - EXISTING/PROPOSED DRAINAGE DIVIDE
- - - - - EXISTING TIME OF CONCENTRATION FLOW PATH
- SF - SILT FENCE
- SSF - SUPER SILT FENCE
- [Symbol] STABILIZED CONSTRUCTION ENTRANCE
- [Symbol] EROSION CONTROL MATTING
- - - - - EXISTING CONTOURS
- - - - - TEMPORARY CONTOURS
- - - - - FINISHED CONTOURS
- LOD - LIMIT OF DISTURBANCE

ENGINEER'S CERTIFICATION
 I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN 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.

Anthony Olsen 2/19/10
 SIGNATURE OF ENGINEER DATE
 (PRINT NAME BELOW SIGNATURE) Anthony M. Olsen

DEVELOPER'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.

Ronald G. Lapsom 2/22/10
 SIGNATURE OF DEVELOPER DATE
 (PRINT NAME BELOW SIGNATURE) Ronald G. Lapsom

APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature] 3/9/10
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

[Signature] 4/02/10
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

[Signature] 4/18/10
 DIRECTOR DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

[Signature] 3/4/10
 HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS
[Signature] 3/31/2010
 COUNTY HEALTH OFFICER DATE
 HOWARD COUNTY HEALTH DEPARTMENT

REVISIONS	

HOWARD COUNTY
 DEPARTMENT OF RECREATION AND PARKS
 7120 OAKLAND MILLS ROAD
 COLUMBIA, MD 21046

DEPARTMENT OF PUBLIC WORKS
 9250 BENDIX ROAD
 ELLICOTT CITY, MD 21043

WR&A
 WHITMAN, REQUARDT & ASSOCIATES, LLP
 801 South Caroline Street, Baltimore, Maryland 21231
 Phone: 410-235-3450 Fax: 410-243-5716

PROPERTY

TAX MAP 36, GRID 5, PARCEL 3,72

ZONING: RC-DEO

ELECTION DISTRICT 3/7

GRAPHIC SCALES

0 50' 100' 200'

SCALE: 1" = 100'

SIGNATURE

[Signature]
 STATE OF MARYLAND
 PROFESSIONAL ENGINEER

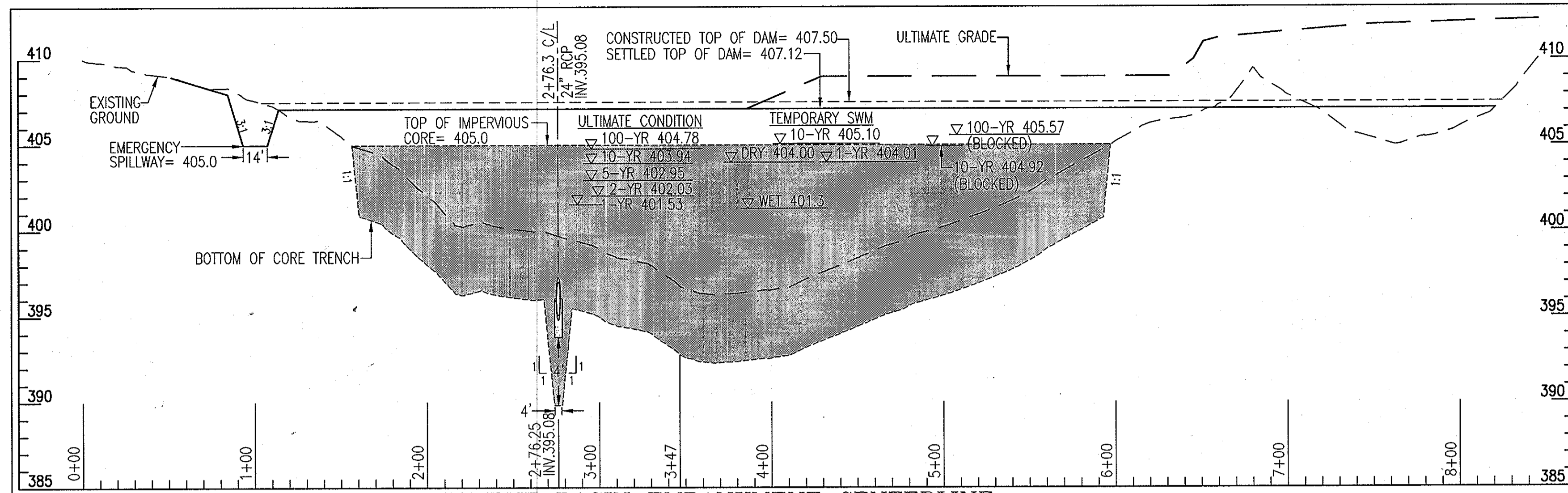
PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19376
 EXPIRATION DATE: 09/22/2011

BLANDAIR REGIONAL PARK - PHASE 1

OVERALL SEDIMENT/EROSION CONTROL PLAN

Drawing No.
C1.6

Scale: 1" = 100'
 Date: 02/19/10 Sheet 9 of 51
 Des: CYH Drawn: CYH Check: AUO



SEDIMENT BASIN
EXISTING DRAINAGE AREA: 11.17 AC +/-
INTERMEDIATE DRAINAGE AREA: 13.60 AC +/-
PROPOSED DRAINAGE AREA: 21.85 AC +/-
WET STORAGE REQUIRED: 38,970 CF
WET STORAGE PROVIDED: 45,505 CF
DRY STORAGE REQUIRED: 38,970 CF
DRY STORAGE PROVIDED: 57,533 CF
TOP OF EMBANKMENT ELEV.: 407.12
RISER CREST ELEV.: 404.0
DRY STORAGE ELEV.: 404.0
WET STORAGE ELEV.: 401.3
CLEANOUT ELEV.: 400.0
BOTTOM ELEV.: 396.0
SIDE SLOPES: 3(H):1(V)
Q1 EXISTING = 1.12 CFS
Q1 INT (UNMANAGED) = 19.97 CFS
Q1 DEV (UNMANAGED) = 234.87 CFS
1 YR STORAGE REQUIRED: 56,845 CF
1 YR STORAGE PROVIDED: 57,533 CF
1 YR STORM STORAGE ELEV.: 404.0
Q1 INT (MANAGED) = 0.64 CFS
Q1 DEV (MANAGED) = 1.05 CFS

SEDIMENT TRAP #2
TYPE: ST II
EXISTING DRAINAGE AREA: 4.88 AC +/-
PROPOSED DRAINAGE AREA: 3.6 AC +/-
WET STORAGE REQUIRED: 8,784 CF
WET STORAGE PROVIDED: 11,975 CF
DRY STORAGE REQUIRED: 8,784 CF
DRY STORAGE PROVIDED: 25,415 CF
1 YR STORAGE REQUIRED: 15,165 CF
1 YR STORAGE PROVIDED: 25,415 CF
WEIR LENGTH: 24 FT
TOP OF EMBANKMENT ELEV.: 396.5
WEIR CREST ELEV.: 395.5
1 YR STORM STORAGE ELEV.: 395.5
DRY STORAGE ELEV.: 395.5
WET STORAGE ELEV.: 392.5
CLEANOUT ELEV.: 391.3
BOTTOM ELEV.: 390.5
SIDE SLOPES: 2(H):1(V)
OUTFALL LENGTH: 10 FT

SEDIMENT TRAP #1
TYPE: ST II
EXISTING DRAINAGE AREA: 4.98 AC +/-
PROPOSED DRAINAGE AREA: 2.4 AC +/-
WET STORAGE REQUIRED: 8,964 CF
WET STORAGE PROVIDED: 13,755 CF
DRY STORAGE REQUIRED: 8,964 CF
DRY STORAGE PROVIDED: 15,070 CF
1 YR STORAGE REQUIRED: 14,857 CF
1 YR STORAGE PROVIDED: 15,070 CF
WEIR LENGTH: 28 FT
TOP OF EMBANKMENT ELEV.: 403.5
WEIR CREST ELEV.: 402.5
1 YR STORM STORAGE ELEV.: 402.5
DRY STORAGE ELEV.: 402.5
WET STORAGE ELEV.: 400.4
CLEANOUT ELEV.: 398.8
BOTTOM ELEV.: 398.0
SIDE SLOPES: 2(H):1(V)
OUTFALL LENGTH: 10 FT

REVISIONS	

HOWARD COUNTY
DEPARTMENT OF RECREATION AND PARKS
7120 OAKLAND MILLS ROAD
COLUMBIA, MD 21046

DEPARTMENT OF PUBLIC WORKS
9250 BENDIX ROAD
ELLICOTT CITY, MD 21043

WR&A
WHITMAN, REQUARDT & ASSOCIATES, LLP
801 South Caroline Street, Baltimore, Maryland 21231
Phone: 410-235-3450 Fax: 410-243-5716

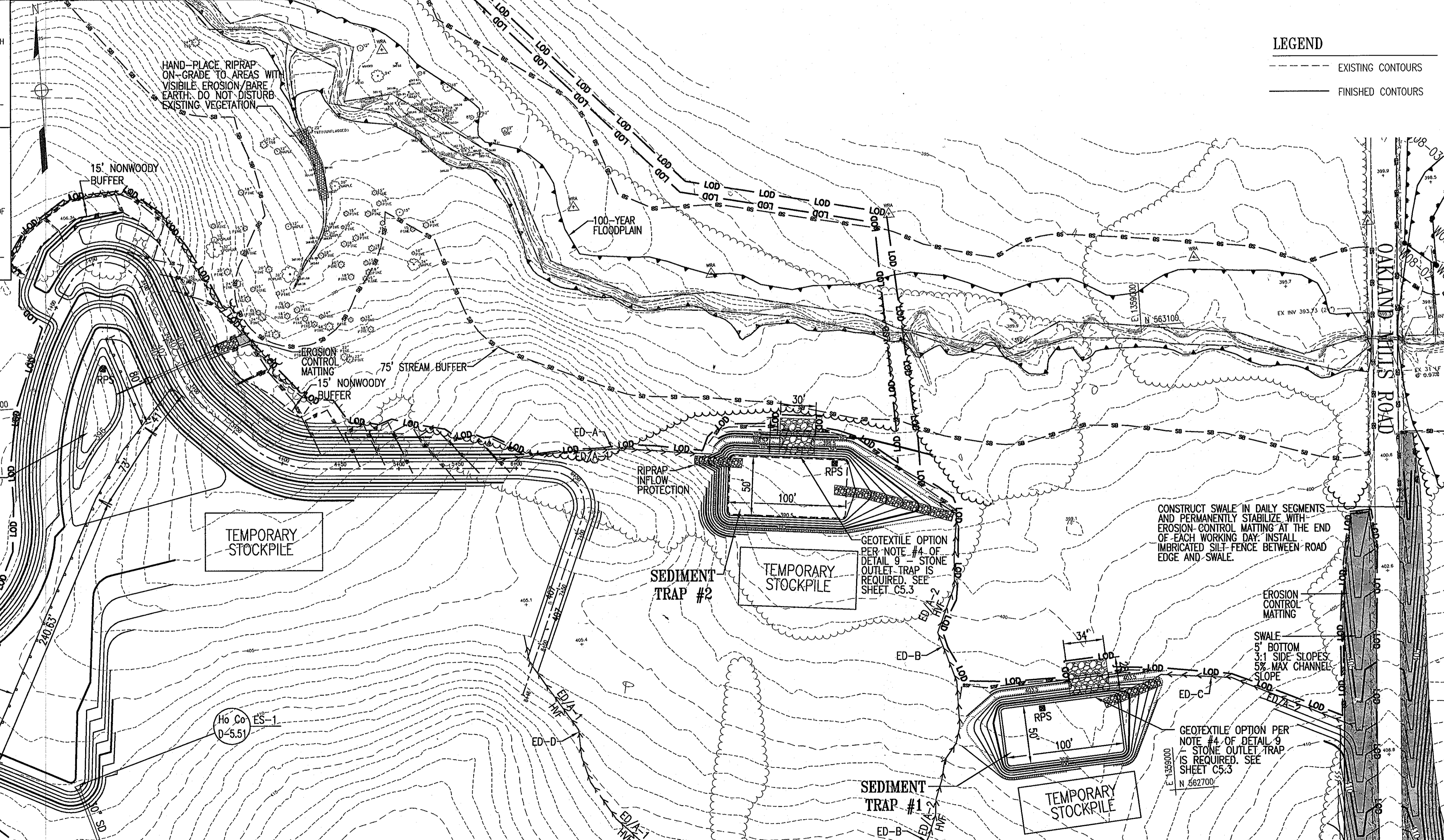
PROFILE OF SEDIMENT BASIN EMBANKMENT CENTERLINE
MATCH LINE - SEE SHEET DWG. C1.9

ENGINEER'S CERTIFICATION
I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN 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.

Anthony U. Olson
SIGNATURE OF ENGINEER
Anthony U. Olson
DATE: 2/19/10

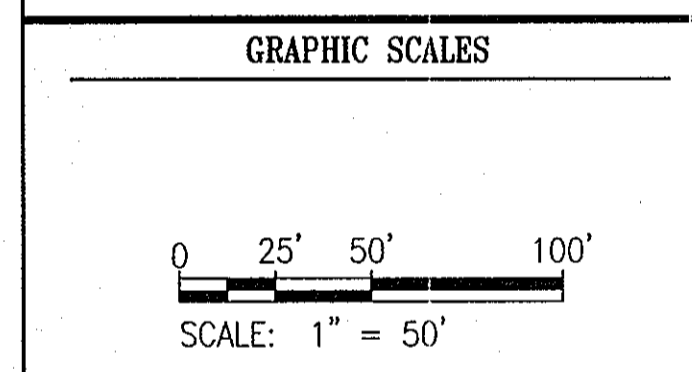
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Ronald G. Lepson
SIGNATURE OF DEVELOPER
Ronald G. Lepson
DATE: 2/22/10



LEGEND
--- EXISTING CONTOURS
--- FINISHED CONTOURS

PROPERTY
TAX MAP 36, GRID 5, PARCEL 3,72
ZONING: RC-DEO
ELECTION DISTRICT 3/7



SIGNATURE

Anthony U. Olson
STATE OF MARYLAND
REGISTERED PROFESSIONAL ENGINEER
EXPIRATION DATE: 09/22/2011

PROFESSIONAL CERTIFICATION.
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19376
EXPIRATION DATE: 09/22/2011

BLANDAIR REGIONAL PARK - PHASE 1

EROSION & SEDIMENT CONTROL / GRADING PLAN B INITIAL GRADING

Drawing No. **C1.8**

Scale: 1" = 50'
Date: 02/19/10 Sheet 11 of 51
Des: CYH Drawn: CYH Check: AUO

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 3/9/10
CHIEF, DEVELOPMENT ENGINEERING DIVISION

[Signature] 4/08/10
CHIEF, DIVISION OF LAND DEVELOPMENT

[Signature] 4/18/10
DIRECTOR

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS

[Signature] 3/31/2010
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT

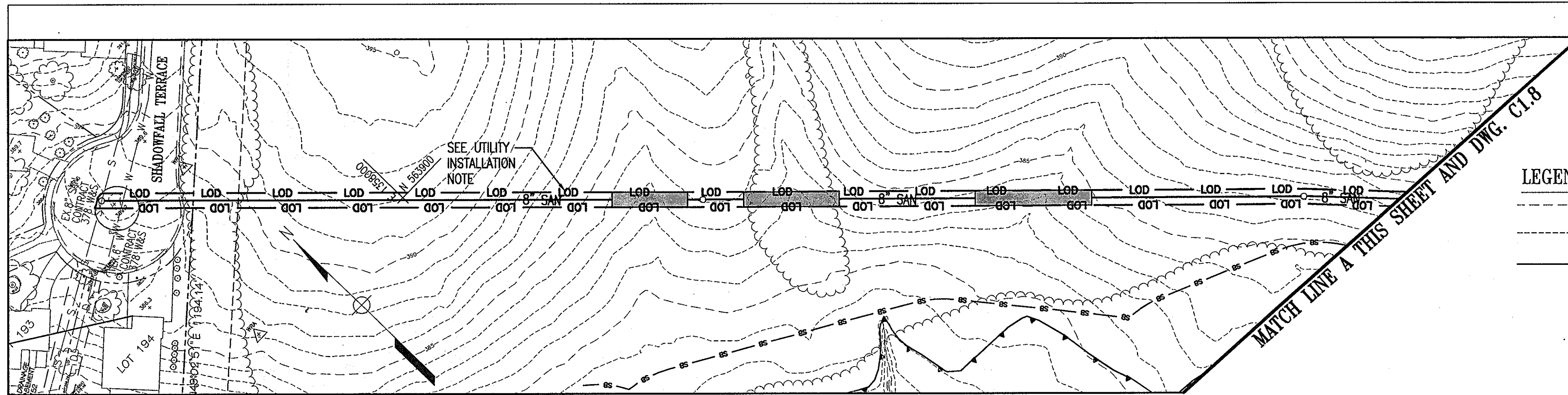
THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

[Signature] 3/14/10
HOWARD SOIL CONSERVATION DISTRICT

UTILITY INSTALLATION NOTE:
ALL TRENCHES CREATED FOR UTILITY INSTALLATION SHALL BE BACKFILLED, COMPACTED AND STABILIZED AT THE END OF EACH WORKING DAY. EXCAVATED TRENCH MATERIAL SHALL BE PLACED ON THE HIGH SIDE OF THE TRENCH. TRENCH SHALL NOT BE OPENED IF IT CANNOT BE STABILIZED THE SAME DAY. IF AN AREA MUST BE LEFT UNSTABILIZED OVERNIGHT, SILT FENCE WILL BE PLACED IMMEDIATELY DOWNSTREAM OF ALL DISTURBED AREAS AND STOCKPILES, AND APPROPRIATE SAFETY MEASURES WILL BE INSTALLED AS REQUIRED.

NOTE:
ALL BACKFILL OF SEDIMENT TRAPS SHALL BE WITH SUITABLE MATERIAL AS APPROVED BY THE GEOTECHNICAL ENGINEER AND COMPACTED AS DEFINED BY THE SPECIFICATIONS.

PLOT DATE: 2/19/2010 9:45:33 AM PAGE SETUP: SETS (24X36) PLOT STYLE: WPA_2006.ctb PAPER SIZE: ARCH D (36.00 X 48.00 INCHES)



LEGEND

- - - - - EXISTING CONTOURS
- - - - - TEMPORARY CONTOURS
- FINISHED CONTOURS

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Anthony Ullman 2/19/10
 SIGNATURE OF ENGINEER DATE
 (PRINT NAME BELOW SIGNATURE) Anthony Ullman

DEVELOPER'S CERTIFICATION
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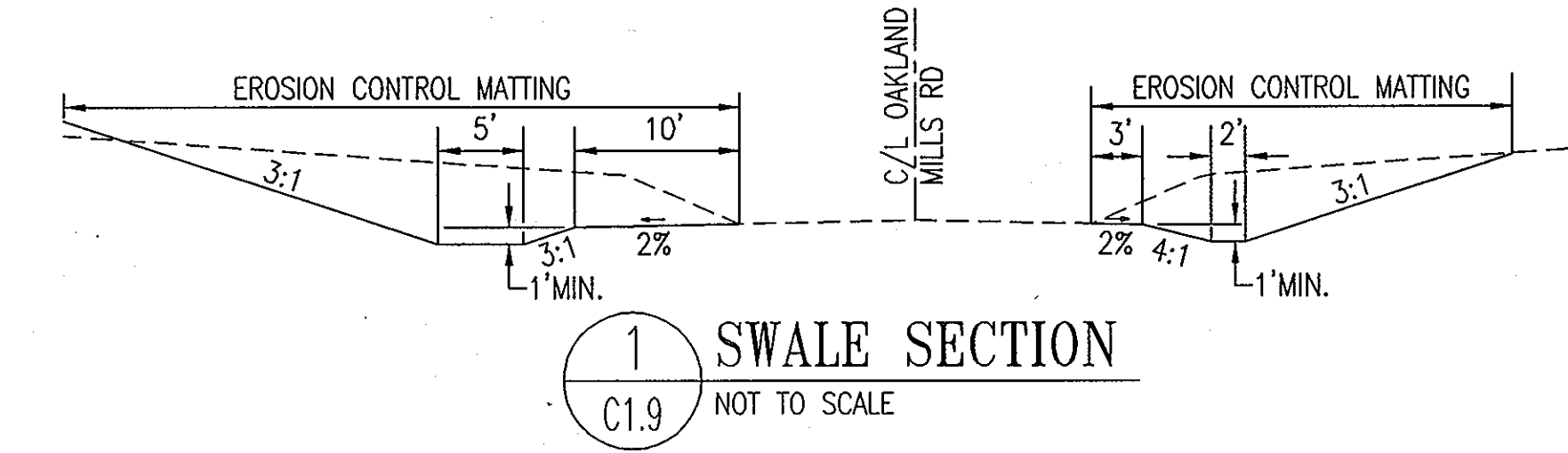
Ronald G. Lepson 2/22/10
 SIGNATURE OF DEVELOPER DATE
 (PRINT NAME BELOW SIGNATURE) Ronald G. Lepson

REVISIONS	

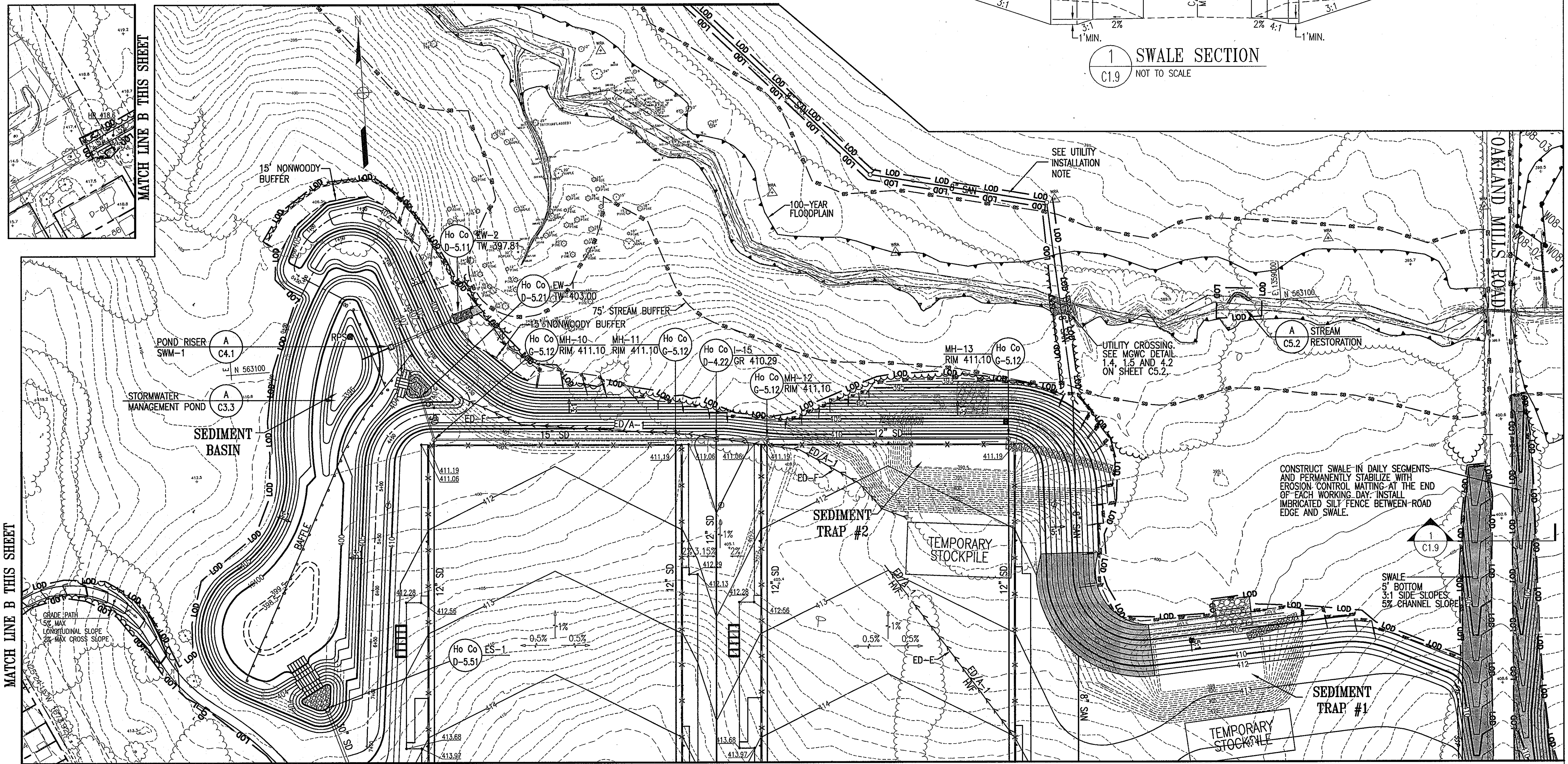
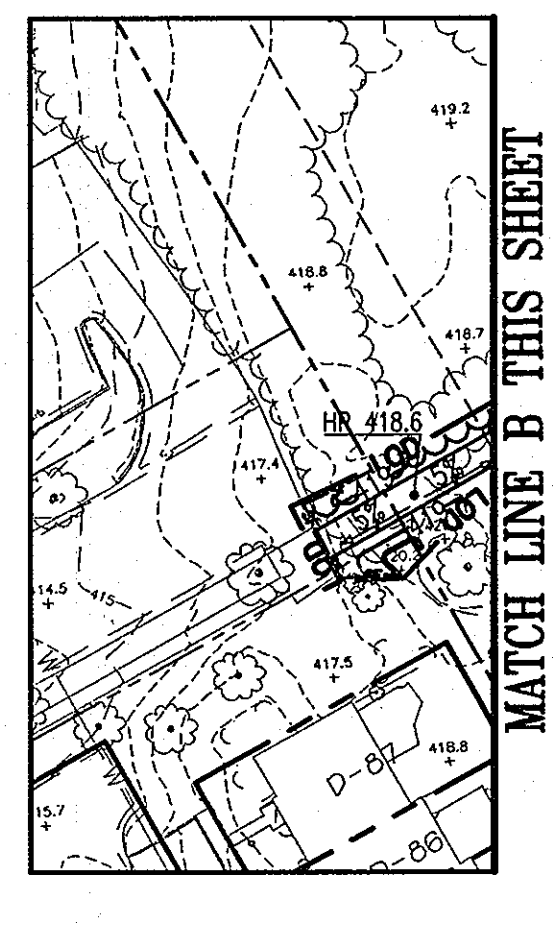
HOWARD COUNTY
 DEPARTMENT OF RECREATION AND PARKS
 7120 OAKLAND MILLS ROAD
 COLUMBIA, MD 21046

DEPARTMENT OF PUBLIC WORKS
 9250 BENDIX ROAD
 ELLICOTT CITY, MD 21043

WR&A
 WHITMAN, REQUARDT & ASSOCIATES, LLP
 801 South Caroline Street, Baltimore, Maryland 21231
 Phone: 410-235-3450 Fax: 410-243-5716



MATCH LINE A THIS SHEET



MATCH LINE SEE DWG. C1.7

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Anthony Ullman 3/1/10
 CHIEF, DEVELOPMENT ENGINEERING DIVISION CE DATE
Thomas G. Rutledge 4/18/10
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE
 DIRECTOR

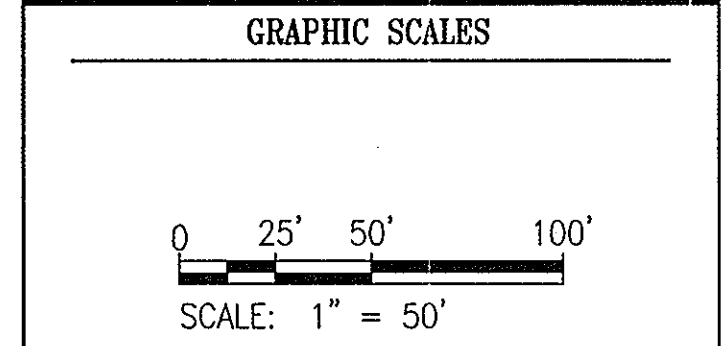
APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS
Robert P. Bileman 3/31/2010
 COUNTY HEALTH OFFICER DATE
 HOWARD COUNTY HEALTH DEPARTMENT

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
Anthony Ullman 2/19/10
 HOWARD SOIL CONSERVATION DISTRICT DATE

UTILITY INSTALLATION NOTE:
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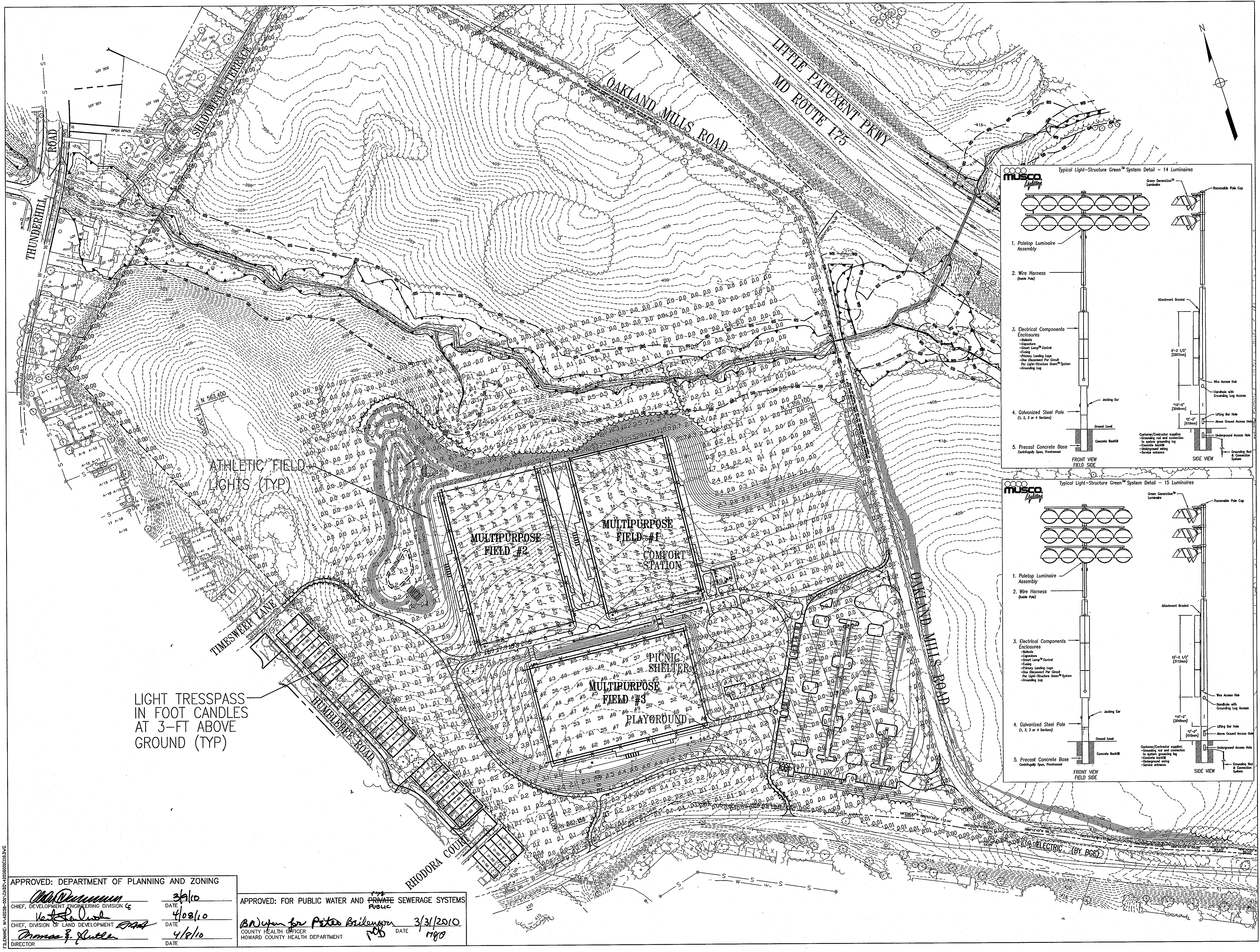
PROPERTY
 TAX MAP 36, GRID 5, PARCEL 3,72
 ZONING: RC-DEO
 ELECTION DISTRICT 3/7



SIGNATURE
Anthony Ullman
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF MARYLAND
 PROFESSIONAL ENGINEERING
 EXPIRATION DATE: 09/22/2011

BLANDAIR REGIONAL PARK - PHASE 1

EROSION & SEDIMENT CONTROL / GRADING PLAN B
 FINAL GRADING
 Drawing No.
C1.9
 Scale: 1" = 50'
 Date: 02/19/10 Sheet 12 of 51
 Des: CYH Drawn: CYH Check: AUO



ATHLETIC FIELD LIGHTS (TYP)

LIGHT TRESSPASS IN FOOT CANDLES AT 3-FT ABOVE GROUND (TYP)

REVISIONS	

HOWARD COUNTY
 DEPARTMENT OF RECREATION AND PARKS
 7120 OAKLAND MILLS ROAD
 COLUMBIA, MD 21046

DEPARTMENT OF PUBLIC WORKS
 9250 BENDIX ROAD
 ELLICOTT CITY, MD 21043

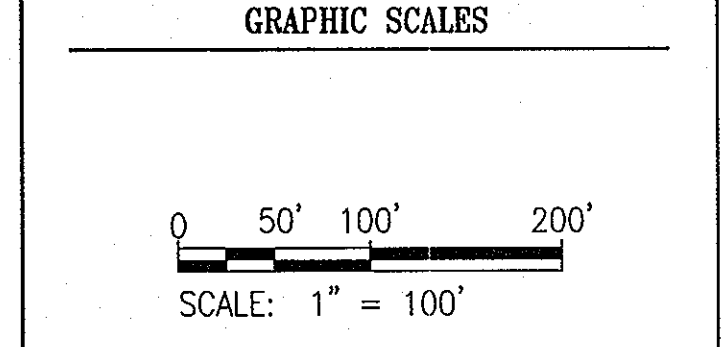
WR&A
 WHITMAN, REQUARDT & ASSOCIATES, LLP
 801 South Caroline Street, Baltimore, Maryland 21231
 Phone: 410-235-3450 Fax: 410-243-5716

PROPERTY

TAX MAP 36, GRID 5, PARCEL 3,72

ZONING: RC-DEO

ELECTION DISTRICT 3/7



SIGNATURE

PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 183716, EXPIRATION DATE: 09/22/2011.

BLANDAIR REGIONAL PARK - PHASE 1

PHOTOMETRIC TEST DIAGRAM

Drawing No.
C1.10

Scale: 1" = 100'

Date: 02/19/10 Sheet 13 of 51

Des: CYH Drawn: CYH Check: AUO

APPROVED: DEPARTMENT OF PLANNING AND ZONING

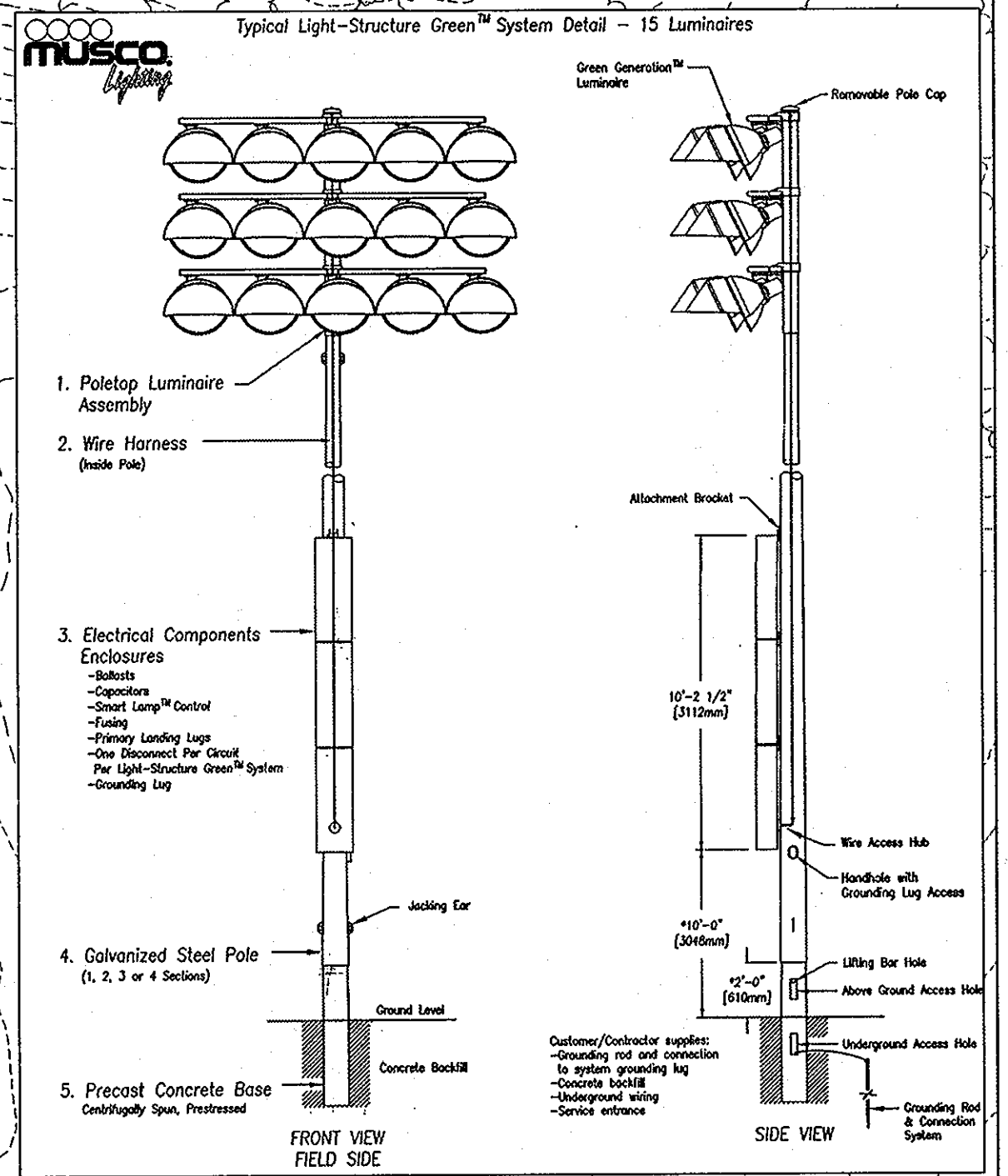
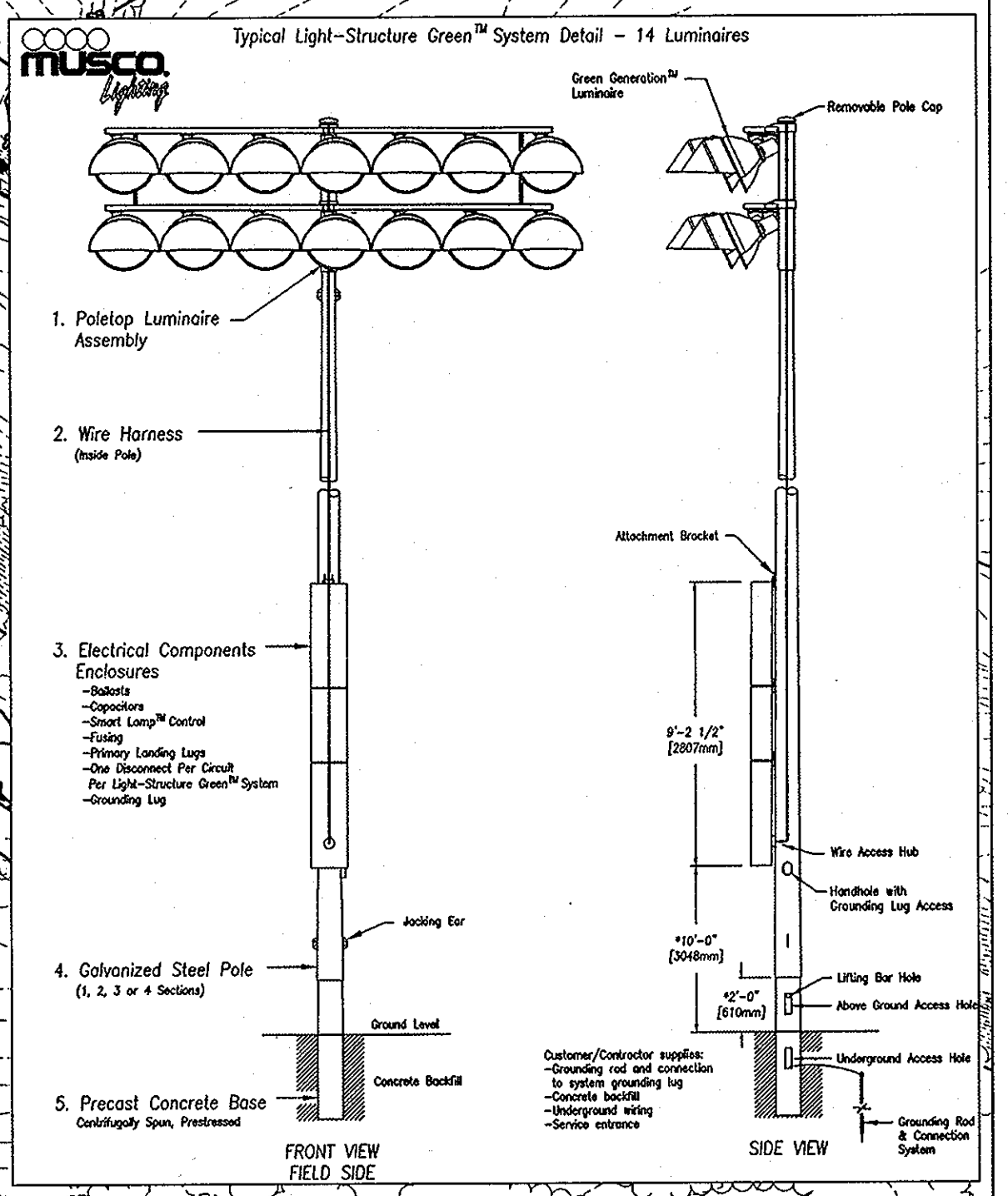
Thomas E. Kelle 3/1/10
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

Thomas E. Kelle 4/08/10
 CHIEF, DIVISION OF LAND DEVELOPMENT

Thomas E. Kelle 4/8/10
 DIRECTOR







APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS

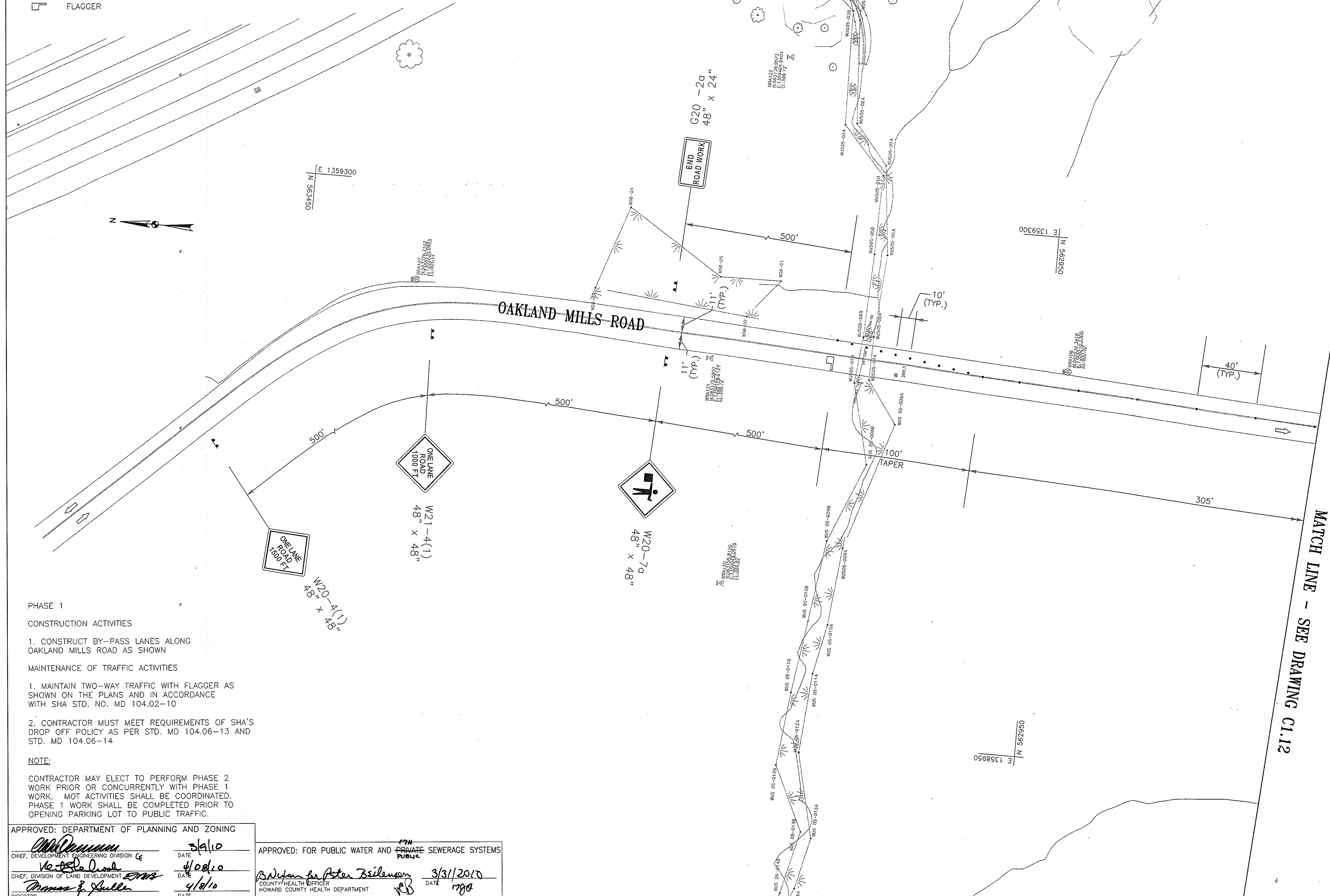
Peter Brillemann 3/31/2010
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT



PLOT DATE: 2/19/2010 9:46:41 AM PAGE SETUP: SETS: GRAY555 PLOT STYLE: WPA_2004.ctb PAPER: 33X43.75 INCHES

MOT LEGEND

-  PROPOSED CONSTRUCTION THIS PHASE
-  TEMPORARY SIGN SUPPORT
-  DRUM
-  EXISTING DIRECTION OF TRAVEL
-  TYPE 3 BARRICADE
-  FLAGGER



- PHASE 1
CONSTRUCTION ACTIVITIES
1. CONSTRUCT BY-PASS LANES ALONG OAKLAND MILLS ROAD AS SHOWN
- MAINTENANCE OF TRAFFIC ACTIVITIES
1. MAINTAIN TWO-WAY TRAFFIC WITH FLAGGER AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH SHA STD. NO. MD 104.02-10
 2. CONTRACTOR MUST MEET REQUIREMENTS OF SHA'S DROP OFF POLICY AS PER STD. MD 104.06-13 AND STD. MD 104.06-14

NOTE:
CONTRACTOR MAY ELECT TO PERFORM PHASE 2 WORK PRIOR OR CONCURRENTLY WITH PHASE 1 WORK. MOT ACTIVITIES SHALL BE COORDINATED. PHASE 1 WORK SHALL BE COMPLETED PRIOR TO OPENING PARKING LOT TO PUBLIC TRAFFIC.

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 [Signature] 3/1/10
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 [Signature] 4/28/10
 CHIEF, DIVISION OF LAND DEVELOPMENT
 [Signature] 4/18/10
 DIRECTOR

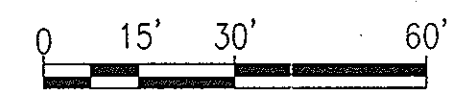
APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS
 [Signature] 3/31/2010
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

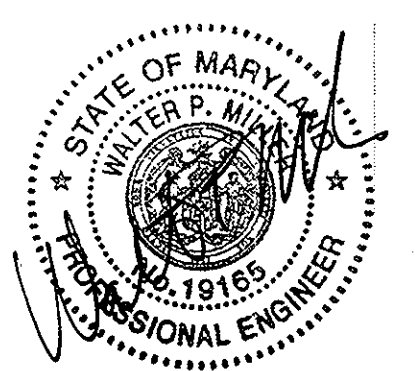
REVISIONS	

HOWARD COUNTY
 DEPARTMENT OF RECREATION AND PARKS
 7120 OAKLAND MILLS ROAD
 COLUMBIA, MD 21046
 DEPARTMENT OF PUBLIC WORKS
 9250 BENDIX ROAD
 ELLICOTT CITY, MD 21043

WR&A
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 Phone: 410-235-3450 Fax: 410-243-5716

PROPERTY
 TAX MAP 36, GRID 5, PARCEL 3,72
 ZONING: RC-DEO
 ELECTION DISTRICT 3/7

GRAPHIC SCALES

 SCALE: 1" = 30'-0"

SIGNATURE





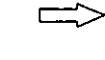

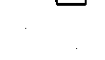
PROFESSIONAL CERTIFICATION.
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 19165
 EXPIRATION DATE: 06/11/2011

BLANDAIR REGIONAL PARK - PHASE 1

TRAFFIC CONTROL PLAN
 PHASE 1-A
 Drawing No.
C1.11

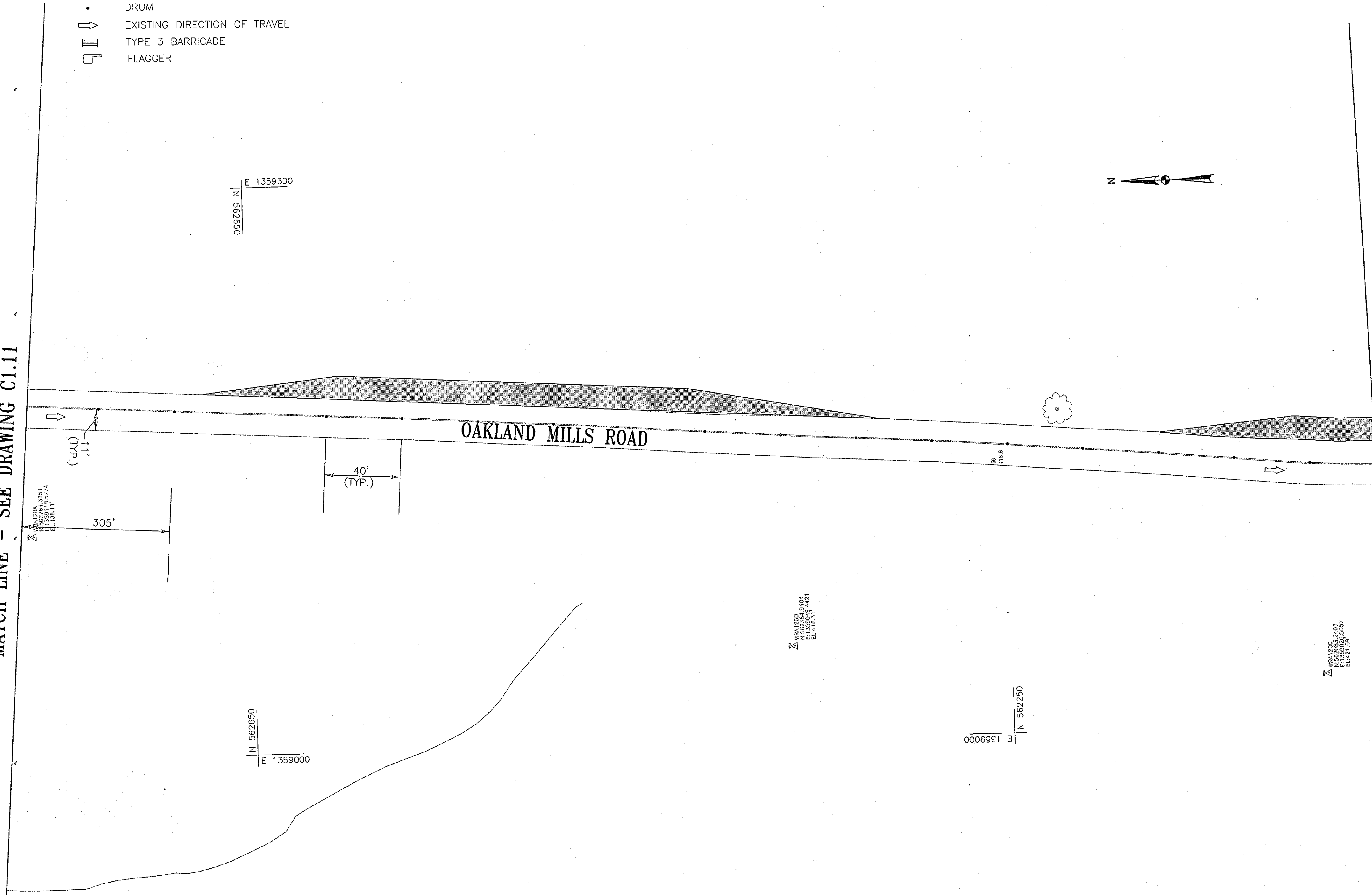
Scale: AS SHOWN
 Date: 02/19/10 Sheet 14 of 51
 Des: KAH Drawn: KAH Check: BRT

MOT LEGEND

-  PROPOSED CONSTRUCTION THIS PHASE
-  TEMPORARY SIGN SUPPORT
-  DRUM
-  EXISTING DIRECTION OF TRAVEL
-  TYPE 3 BARRICADE
-  FLAGGER

MATCH LINE - SEE DRAWING C1.11

MATCH LINE - SEE DRAWING C1.13



PHASE 1

CONSTRUCTION ACTIVITIES

1. CONSTRUCT BY-PASS LANES ALONG OAKLAND MILLS ROAD AS SHOWN

MAINTENANCE OF TRAFFIC ACTIVITIES

1. MAINTAIN TWO-WAY TRAFFIC WITH FLAGGER AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH SHA STD. NO. MD 104.02-10

2. CONTRACTOR MUST MEET REQUIREMENTS OF SHA'S DROP OFF POLICY AS PER STD. MD 104.06-13 AND STD. MD 104.06-14

NOTE:

CONTRACTOR MAY ELECT TO PERFORM PHASE 2 WORK PRIOR OR CONCURRENTLY WITH PHASE 1 WORK. MOT ACTIVITIES SHALL BE COORDINATED. PHASE 1 WORK SHALL BE COMPLETED PRIOR TO OPENING PARKING LOT TO PUBLIC TRAFFIC.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature]
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 3/1/10

[Signature]
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE: 4/08/10

[Signature]
DIRECTOR
DATE: 4/8/10

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS

[Signature]
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT
DATE: 3/31/2010

REVISIONS	

HOWARD COUNTY
DEPARTMENT OF RECREATION AND PARKS
7120 OAKLAND MILLS ROAD
COLUMBIA, MD 21046

DEPARTMENT OF PUBLIC WORKS
9250 BENDIX ROAD
ELLCOTT CITY, MD 21043

WR&A
WHITMAN, REQUARDT & ASSOCIATES, LLP
801 South Caroline Street, Baltimore, Maryland 21231
Phone: 410-235-3450 Fax: 410-243-5716

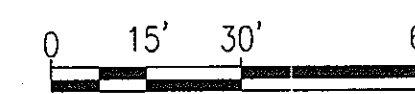
PROPERTY

TAX MAP 36, GRID 5, PARCEL 3,72

ZONING: RC-DEO


ELECTION DISTRICT 3/7

GRAPHIC SCALES



SCALE: 1" = 30'-0"

SIGNATURE



PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19165
EXPIRATION DATE: 06/11/2011

BLANDAIR REGIONAL PARK - PHASE 1

TRAFFIC CONTROL PLAN
PHASE 1-A
Drawing No.
C1.12

Scale: AS SHOWN
Date: 02/19/10 Sheet 15 of 51
Des: KAH Drawn: KAH Check: BRT

REVISIONS	

HOWARD COUNTY
DEPARTMENT OF RECREATION AND PARKS
7120 OAKLAND MILLS ROAD
COLUMBIA, MD 21046

DEPARTMENT OF PUBLIC WORKS
9250 BENDIX ROAD
ELLCOTT CITY, MD 21043

WR&A
WHITMAN, REQUARDT & ASSOCIATES, LLP
801 South Caroline Street, Baltimore, Maryland 21231
Phone: 410-235-3450 Fax: 410-243-5716

PROPERTY

TAX MAP 36, GRID 5, PARCEL 3.72

ZONING: RC-DBO


ELECTION DISTRICT 3/7

GRAPHIC SCALES

0 15' 30' 60'

SCALE: 1" = 30'-0"

SIGNATURE



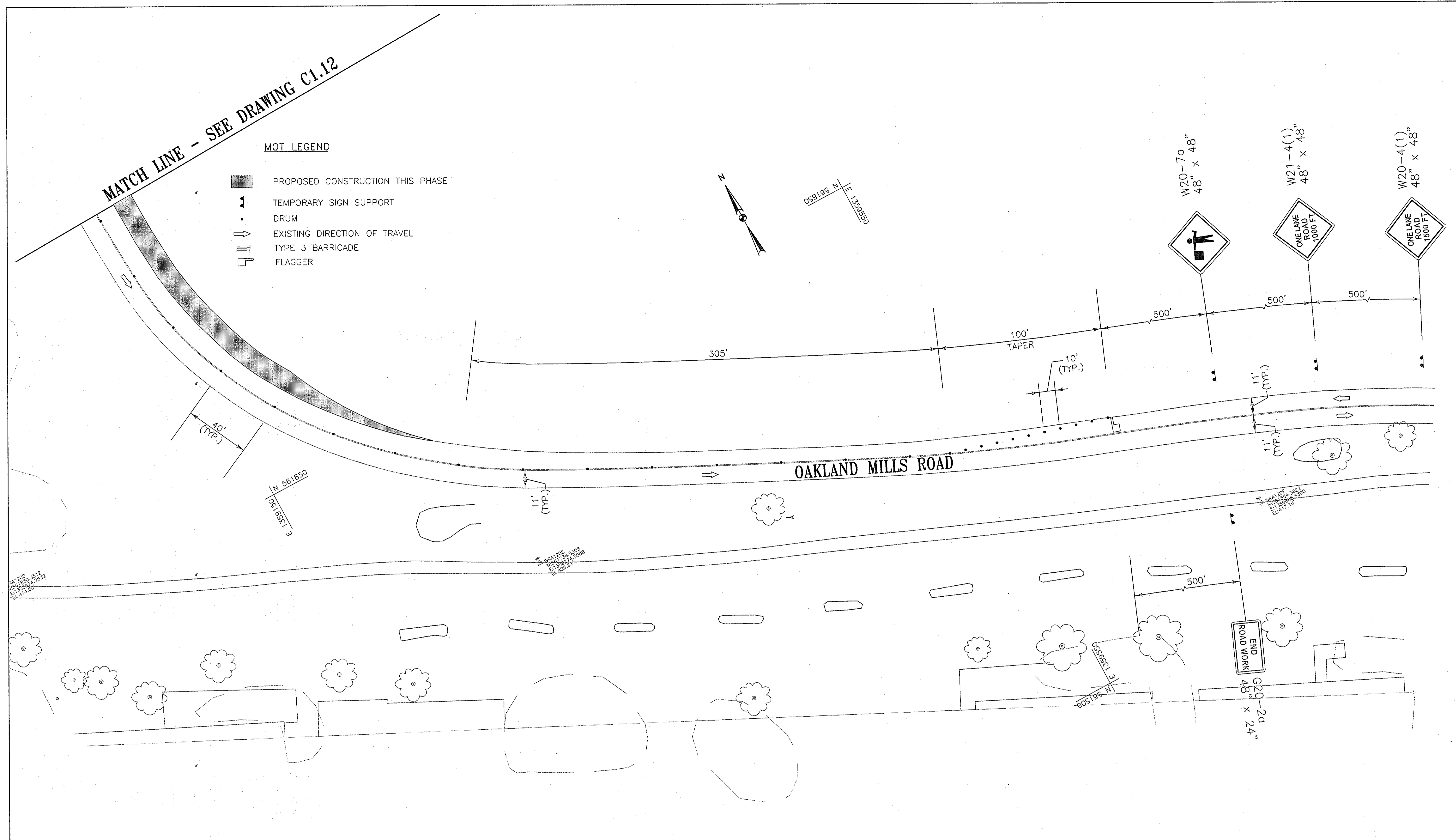
PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19165, EXPIRATION DATE: 06/11/2011

BLANDAIR REGIONAL PARK - PHASE 1

TRAFFIC CONTROL PLAN
PHASE 1-A

Drawing No.
C1.13

Scale: AS SHOWN
Date: 02/19/10 Sheet 16 of 51
Des: KAH Drawn: KAH Check: BRT



- MOT LEGEND**
- PROPOSED CONSTRUCTION THIS PHASE
 - TEMPORARY SIGN SUPPORT
 - DRUM
 - EXISTING DIRECTION OF TRAVEL
 - TYPE 3 BARRICADE
 - FLAGGER

- PHASE 1**
- CONSTRUCTION ACTIVITIES**
1. CONSTRUCT BY-PASS LANES ALONG OAKLAND MILLS ROAD AS SHOWN
- MAINTENANCE OF TRAFFIC ACTIVITIES**
1. MAINTAIN TWO-WAY TRAFFIC WITH FLAGGER AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH SHA STD. NO. MD 104.02-10
 2. CONTRACTOR MUST MEET REQUIREMENTS OF SHA'S DROP OFF POLICY AS PER STD. MD 104.06-13 AND STD. MD 104.06-14
- NOTE:**
- CONTRACTOR MAY ELECT TO PERFORM PHASE 2 WORK PRIOR OR CONCURRENTLY WITH PHASE 1 WORK. MOT ACTIVITIES SHALL BE COORDINATED. PHASE 1 WORK SHALL BE COMPLETED PRIOR TO OPENING PARKING LOT TO PUBLIC TRAFFIC.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

William P. Wills
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 3/1/10







Kurt D. Dool
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE: 4/08/10

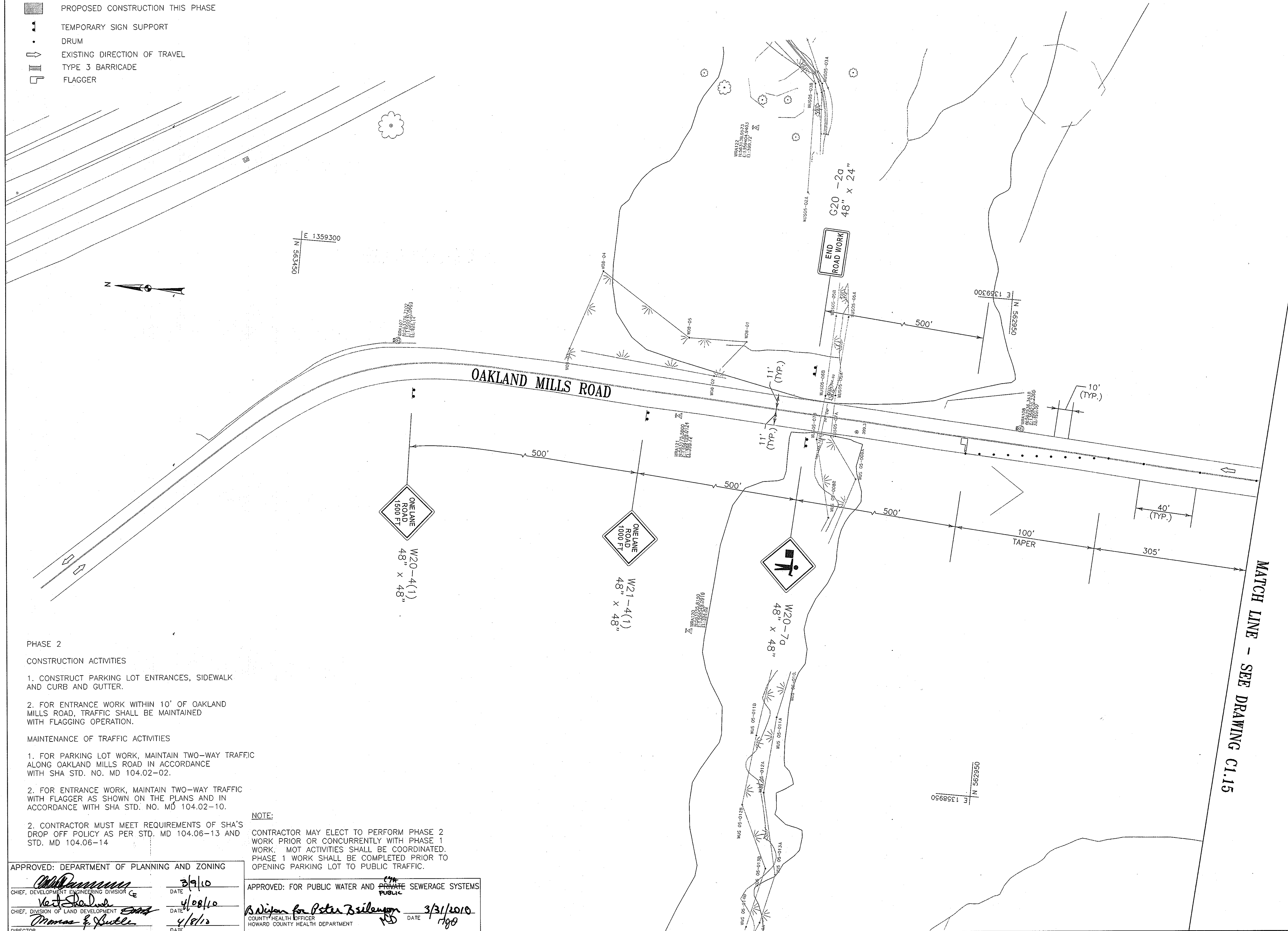
Thomas E. Shuttle
DIRECTOR
DATE: 4/8/10

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS

Brian for Peter Bilangan
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT
DATE: 3/31/2010

MOT LEGEND

-  PROPOSED CONSTRUCTION THIS PHASE
-  TEMPORARY SIGN SUPPORT
-  DRUM
-  EXISTING DIRECTION OF TRAVEL
-  TYPE 3 BARRICADE
-  FLAGGER



**PHASE 2
CONSTRUCTION ACTIVITIES**

1. CONSTRUCT PARKING LOT ENTRANCES, SIDEWALK AND CURB AND GUTTER.
2. FOR ENTRANCE WORK WITHIN 10' OF OAKLAND MILLS ROAD, TRAFFIC SHALL BE MAINTAINED WITH FLAGGING OPERATION.

MAINTENANCE OF TRAFFIC ACTIVITIES

1. FOR PARKING LOT WORK, MAINTAIN TWO-WAY TRAFFIC ALONG OAKLAND MILLS ROAD IN ACCORDANCE WITH SHA STD. NO. MD 104.02-02.
2. FOR ENTRANCE WORK, MAINTAIN TWO-WAY TRAFFIC WITH FLAGGER AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH SHA STD. NO. MD 104.02-10.

NOTE:
CONTRACTOR MAY ELECT TO PERFORM PHASE 2 WORK PRIOR OR CONCURRENTLY WITH PHASE 1 WORK. MOT ACTIVITIES SHALL BE COORDINATED. PHASE 1 WORK SHALL BE COMPLETED PRIOR TO OPENING PARKING LOT TO PUBLIC TRAFFIC.

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 [Signature] DATE 2/9/10
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 [Signature] DATE 4/08/10
 CHIEF, DIVISION OF LAND DEVELOPMENT
 [Signature] DATE 4/8/10
 DIRECTOR

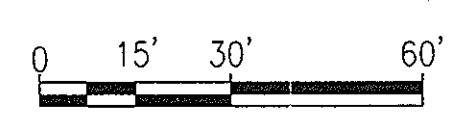
APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS
 [Signature] DATE 3/31/2010
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT


REVISIONS	

HOWARD COUNTY
 DEPARTMENT OF RECREATION AND PARKS
 7120 OAKLAND MILLS ROAD
 COLUMBIA, MD 21046
 DEPARTMENT OF PUBLIC WORKS
 9250 BENDIX ROAD
 ELLICOTT CITY, MD 21043

WR&A
 WHITMAN, REQUARDT & ASSOCIATES, LLP
 801 South Caroline Street, Baltimore, Maryland 21231
 Phone: 410-235-3450 Fax: 410-243-5716

PROPERTY
 TAX MAP 36, GRID 5, PARCEL 3.72
 ZONING: RC-DEO
 ELECTION DISTRICT 3/7




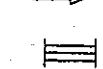


GRAPHIC SCALES

 SCALE: 1" = 30'-0"

SIGNATURE

 PROFESSIONAL CERTIFICATION:
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19165
 EXPIRATION DATE: 05/11/2011

BLANDAIR REGIONAL PARK - PHASE 1

**TRAFFIC CONTROL PLAN
 PHASE 1-B**
 Drawing No.
C1.14
 Scale: AS SHOWN
 Date: 02/19/10 Sheet 17 of 51
 Des: KAH Drawn: KAH Check: BRT
 SDP-10-007

MOT LEGEND

-  PROPOSED CONSTRUCTION THIS PHASE
-  TEMPORARY SIGN SUPPORT
-  DRUM
-  EXISTING DIRECTION OF TRAVEL
-  TYPE 3 BARRICADE
-  FLAGGER

PHASE 2

CONSTRUCTION ACTIVITIES

1. CONSTRUCT PARKING LOT ENTRANCES, SIDEWALK AND CURB AND GUTTER.
2. FOR ENTRANCE WORK WITHIN 10' OF OAKLAND MILLS ROAD, TRAFFIC SHALL BE MAINTAINED WITH FLAGGING OPERATION.

MAINTENANCE OF TRAFFIC ACTIVITIES

1. FOR PARKING LOT WORK, MAINTAIN TWO-WAY TRAFFIC ALONG OAKLAND MILLS ROAD IN ACCORDANCE WITH SHA STD. NO. MD 104.02-02.
2. FOR ENTRANCE WORK, MAINTAIN TWO-WAY TRAFFIC WITH FLAGGER AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH SHA STD. NO. MD 104.02-10.
2. CONTRACTOR MUST MEET REQUIREMENTS OF SHA'S DROP OFF POLICY AS PER STD. MD 104.06-13 AND STD. MD 104.06-14

NOTE:

CONTRACTOR MAY ELECT TO PERFORM PHASE 2 WORK PRIOR OR CONCURRENTLY WITH PHASE 1 WORK. MOT ACTIVITIES SHALL BE COORDINATED. PHASE 1 WORK SHALL BE COMPLETED PRIOR TO OPENING PARKING LOT TO PUBLIC TRAFFIC.

REVISIONS	

HOWARD COUNTY

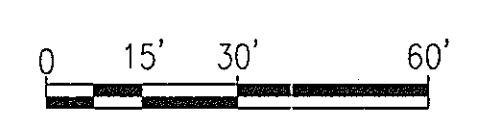
DEPARTMENT OF RECREATION AND PARKS
7120 OAKLAND MILLS ROAD
COLUMBIA, MD 21046

DEPARTMENT OF PUBLIC WORKS
9250 BENDIX ROAD
ELLCOTT CITY, MD 21043

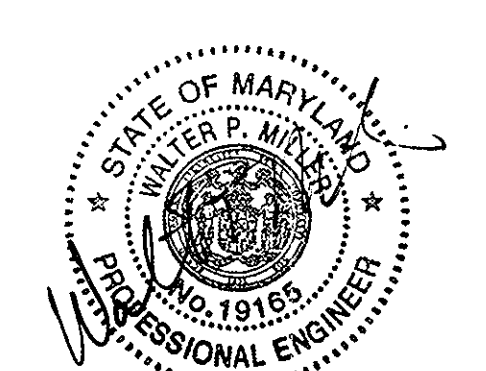


WHITMAN, REQUARDT & ASSOCIATES, LLP
801 South Caroline Street, Baltimore, Maryland 21231
Phone: 410-235-3450 Fax: 410-243-5716

PROPERTY
TAX MAP 36, GRID 5, PARCEL 3.72
ZONING: RC-DEO
ELECTION DISTRICT 3/7

GRAPHIC SCALES
 SCALE: 1" = 30'-0"

SIGNATURE



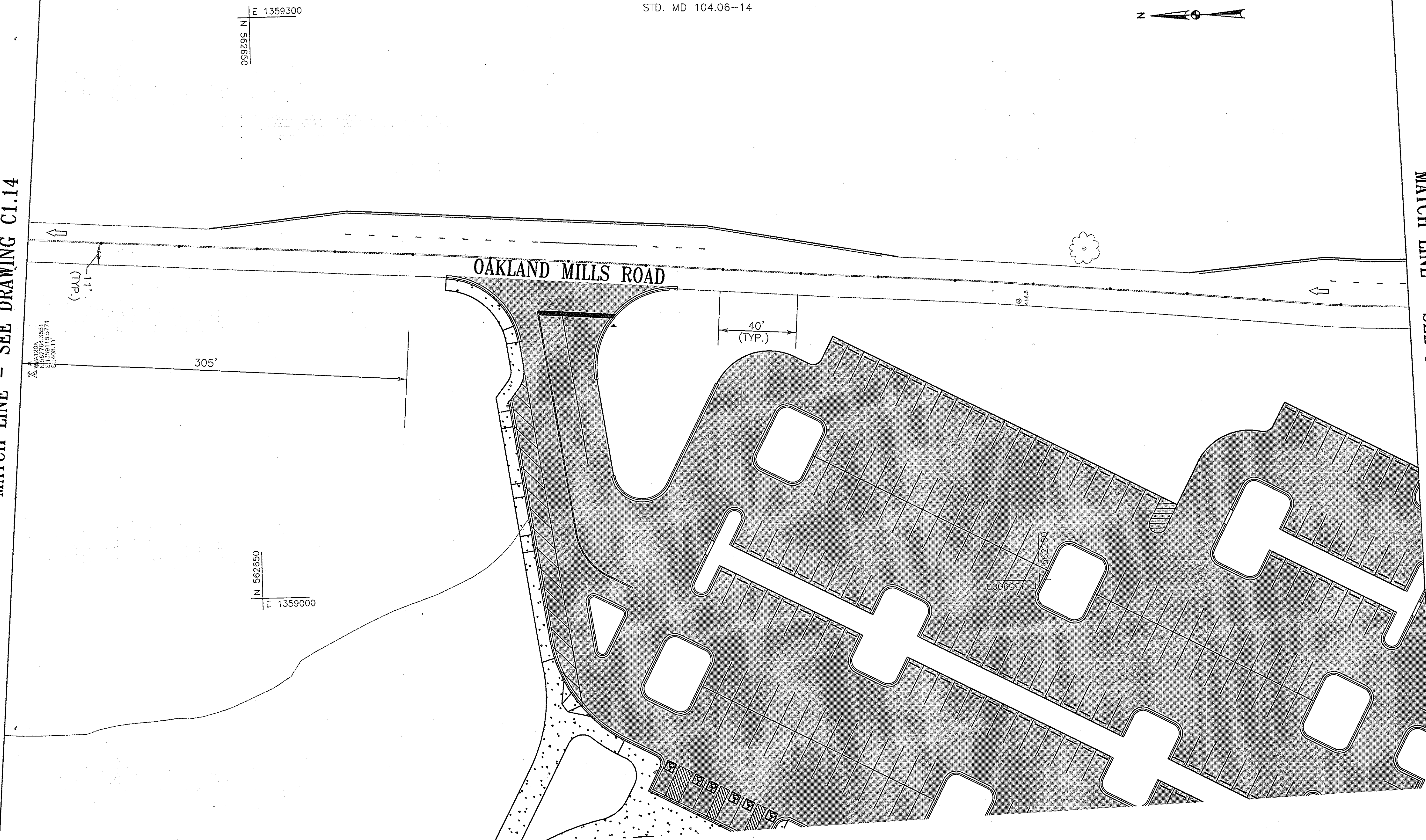
PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19155, EXPIRATION DATE: 06/11/2011


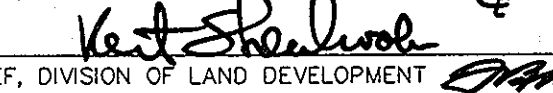
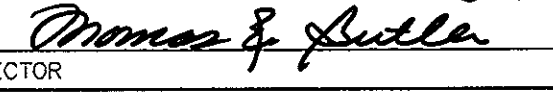
BLANDAIR REGIONAL PARK - PHASE 1

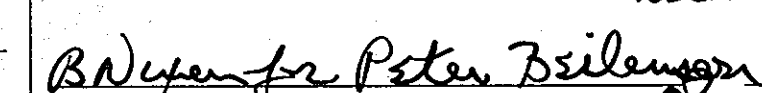
TRAFFIC CONTROL PLAN PHASE 1-B		
Drawing No.		
C1.15		
Scale: AS SHOWN		
Date: 02/19/10	Sheet 18 of 51	
Des: KAH	Drawn: KAH	Check: BRT

MATCH LINE - SEE DRAWING C1.14

MATCH LINE - SEE DRAWING C1.16



APPROVED: DEPARTMENT OF PLANNING AND ZONING
 DATE: 2/10/10
 DATE: 4/03/10
 DATE: 4/8/10

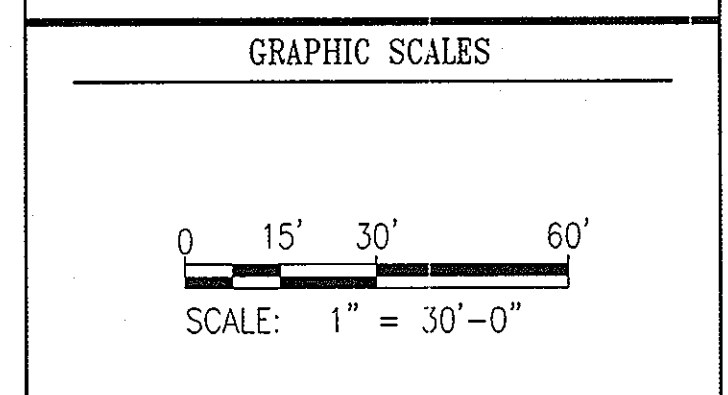
APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS
 DATE: 3/31/2010
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

REVISIONS	

HOWARD COUNTY
 DEPARTMENT OF RECREATION AND PARKS
 7120 OAKLAND MILLS ROAD
 COLUMBIA, MD 21046
 DEPARTMENT OF PUBLIC WORKS
 9250 BENDIX ROAD
 ELLICOTT CITY, MD 21043

WR&A
 WHITMAN, REQUARDT & ASSOCIATES, LLP
 801 South Caroline Street, Baltimore, Maryland 21231
 Phone: 410-235-3450 Fax: 410-243-5716

PROPERTY
 TAX MAP 36, GRID 5, PARCEL 3.72
 ZONING: RC-DEO
 ELECTION DISTRICT 3/7



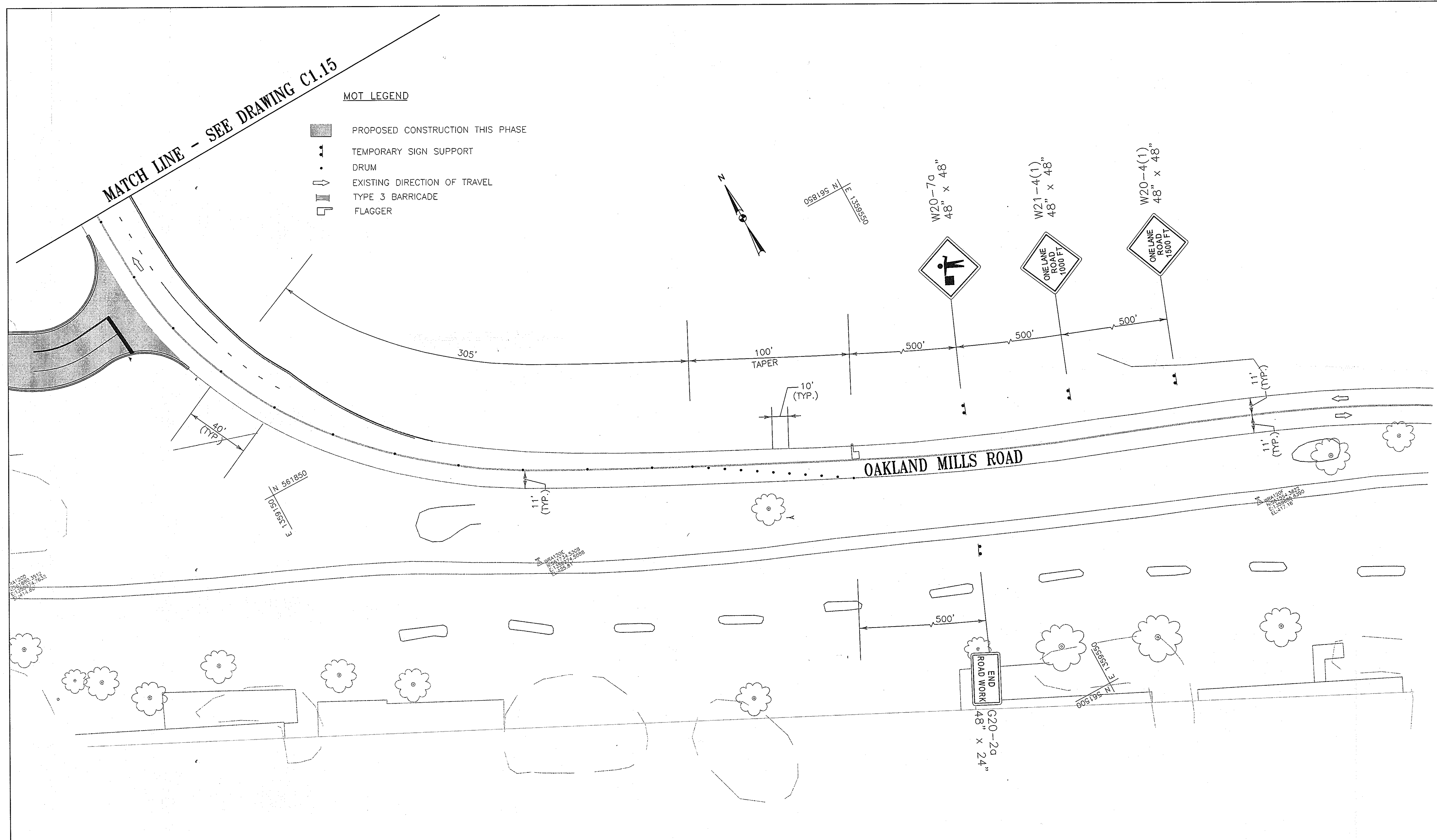
SIGNATURE

PROFESSIONAL CERTIFICATION:
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19185, EXPIRATION DATE: 06/11/2011

BLANDAIR REGIONAL PARK - PHASE 1

TRAFFIC CONTROL PLAN
 PHASE 1-B
 Drawing No.
C1.16

Scale: AS SHOWN
 Date: 02/19/10 Sheet 19 of 51
 Des: KAH Drawn: KAH Check: BRT



- PHASE 2
 CONSTRUCTION ACTIVITIES
1. CONSTRUCT PARKING LOT ENTRANCES, SIDEWALK AND CURB AND GUTTER.
 2. FOR ENTRANCE WORK WITHIN 10' OF OAKLAND MILLS ROAD, TRAFFIC SHALL BE MAINTAINED WITH FLAGGING OPERATION.
- MAINTENANCE OF TRAFFIC ACTIVITIES
1. FOR PARKING LOT WORK, MAINTAIN TWO-WAY TRAFFIC ALONG OAKLAND MILLS ROAD IN ACCORDANCE WITH SHA STD. NO. MD 104.02-02.
 2. FOR ENTRANCE WORK, MAINTAIN TWO-WAY TRAFFIC WITH FLAGGER AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH SHA STD. NO. MD 104.02-10.
- NOTE:
 CONTRACTOR MAY ELECT TO PERFORM PHASE 2 WORK PRIOR OR CONCURRENTLY WITH PHASE 1 WORK. MOT ACTIVITIES SHALL BE COORDINATED. PHASE 1 WORK SHALL BE COMPLETED PRIOR TO OPENING PARKING LOT TO PUBLIC TRAFFIC.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 3/10

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS

 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT
 DATE: 3/31/2010

CHIEF, DIVISION OF LAND DEVELOPMENT

 DATE: 4/08/10

DIRECTOR

 DATE: 4/8/10

PAVEMENT MARKING LEGEND

- (A) 5 INCH SOLID WHITE PAVEMENT MARKING PAINT LINE
- (B) 5 INCH SKIP WHITE PAVEMENT MARKING PAINT LINE (3 FOOT LINE WITH 9 FOOT GAP)
- (C) 5 INCH SOLID YELLOW PAVEMENT MARKING PAINT LINE
- (D) 16 INCH SOLID WHITE PAVEMENT MARKING PAINT LINE
- (E) 4 INCH SOLID WHITE PAVEMENT MARKING PAINT LINE

REVISIONS	

HOWARD COUNTY

DEPARTMENT OF RECREATION AND PARKS
7120 OAKLAND MILLS ROAD
COLUMBIA, MD 21046

DEPARTMENT OF PUBLIC WORKS
9250 BENDIX ROAD
ELLCOTT CITY, MD 21043

WR&A

WHITMAN, REQUARDT & ASSOCIATES, LLP
801 South Caroline Street, Baltimore, Maryland 21231
Phone: 410-235-3450 Fax: 410-243-5716

PROPERTY

TAX MAP 36, GRID 5, PARCEL 3,72

ZONING: RC-DEO

ELECTION DISTRICT 3/7

GRAPHIC SCALES

SIGNATURE

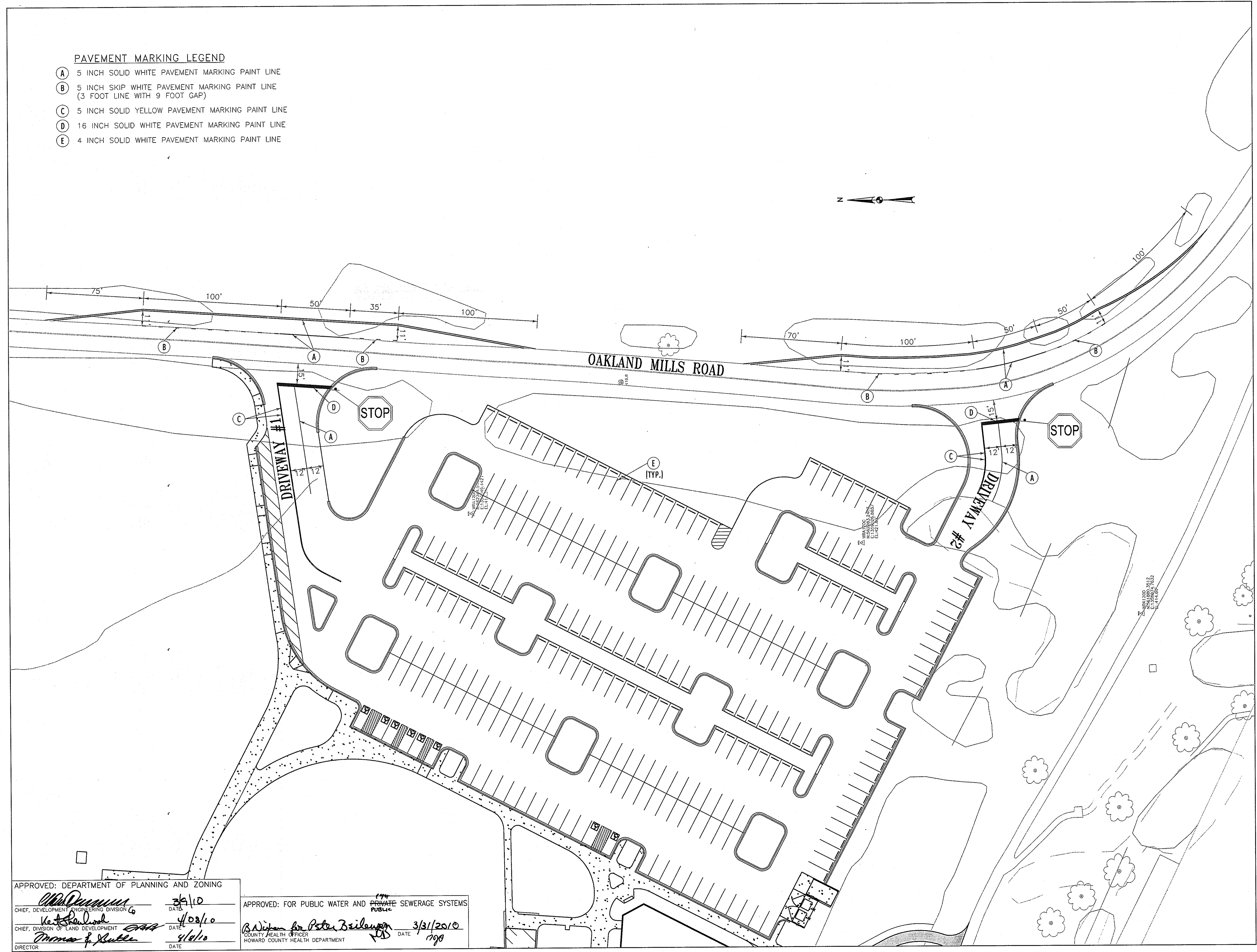
PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19165. EXPIRATION DATE: 06/11/2011

BLANDAIR REGIONAL PARK - PHASE 1

SIGNING AND MARKING PLAN

Drawing No.
C1.17

Scale: AS SHOWN
Date: 02/19/10 Sheet 20 of 51
Des: CH Drawn: VAK Check: BRT



APPROVED: DEPARTMENT OF PLANNING AND ZONING

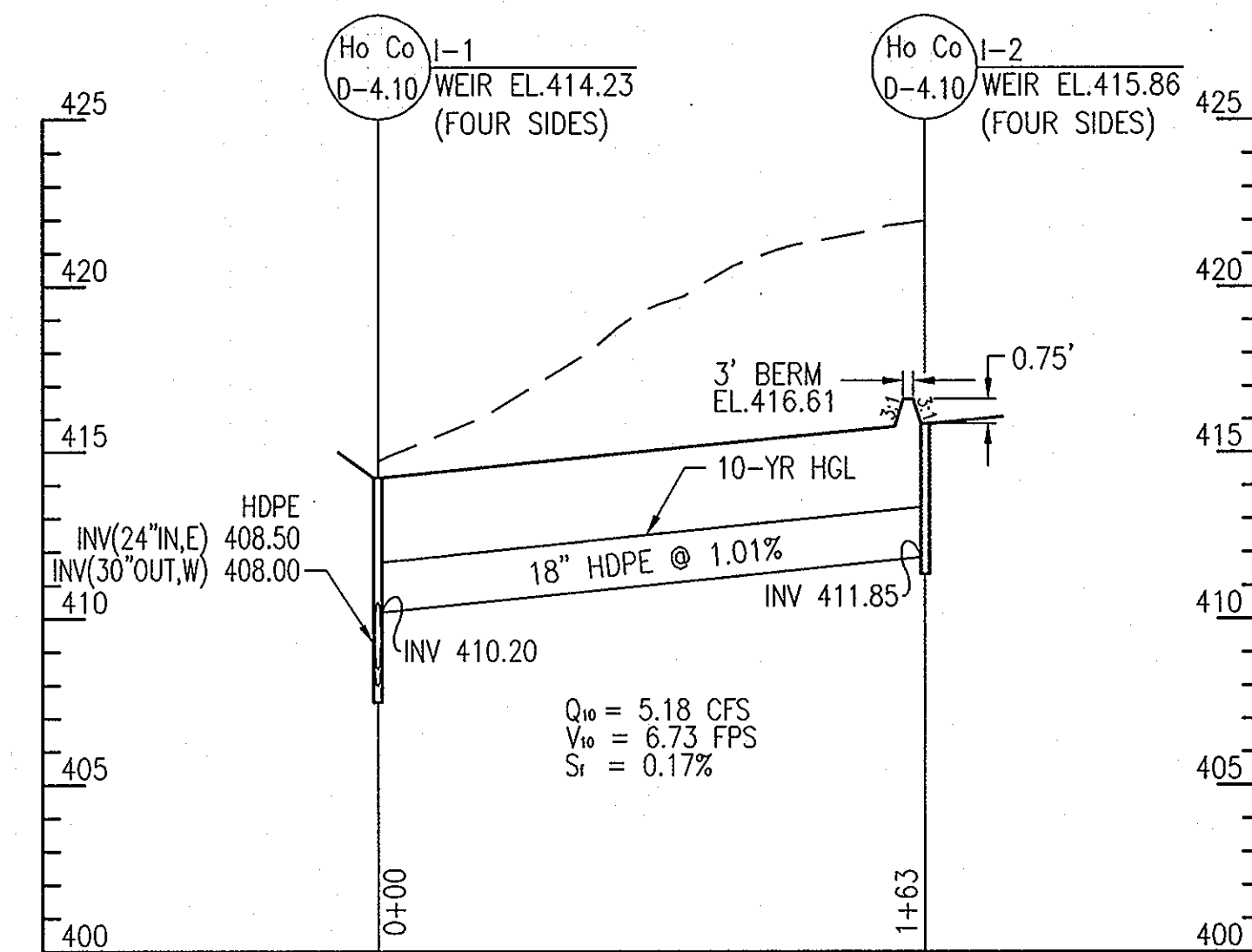
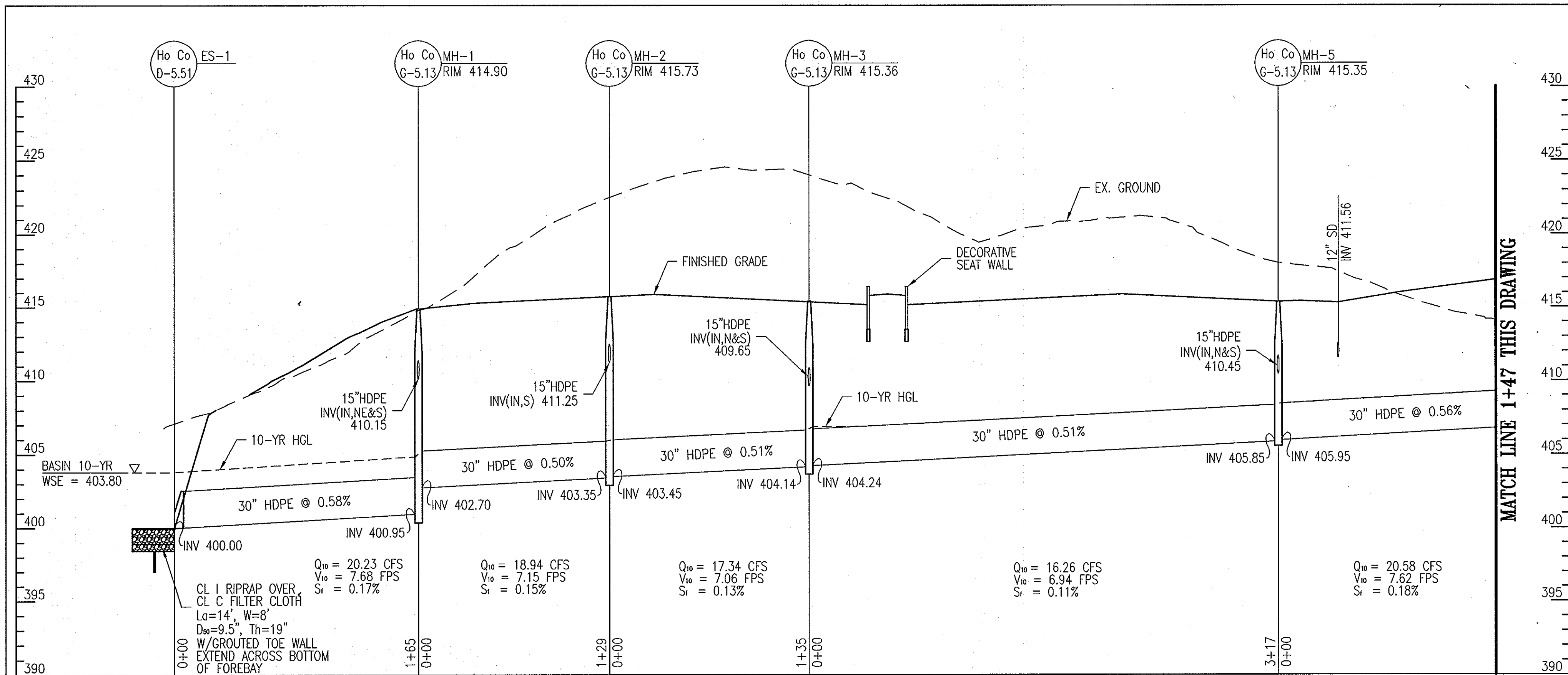
[Signature] DATE: 3/9/10
CHIEF, DEVELOPMENT ENGINEERING DIVISION

[Signature] DATE: 4/03/10
CHIEF, DIVISION OF LAND DEVELOPMENT

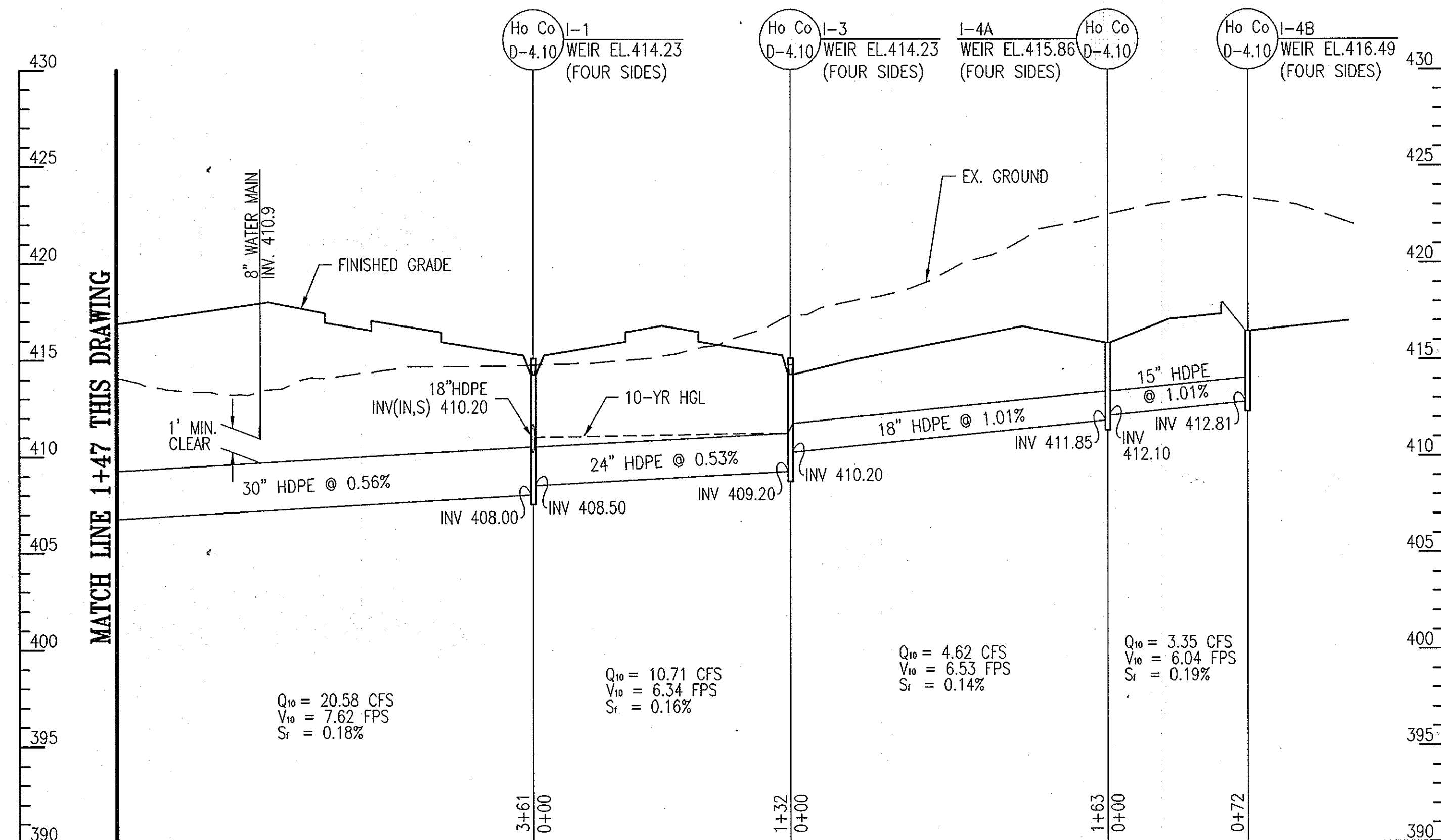
[Signature] DATE: 4/6/10
DIRECTOR

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS

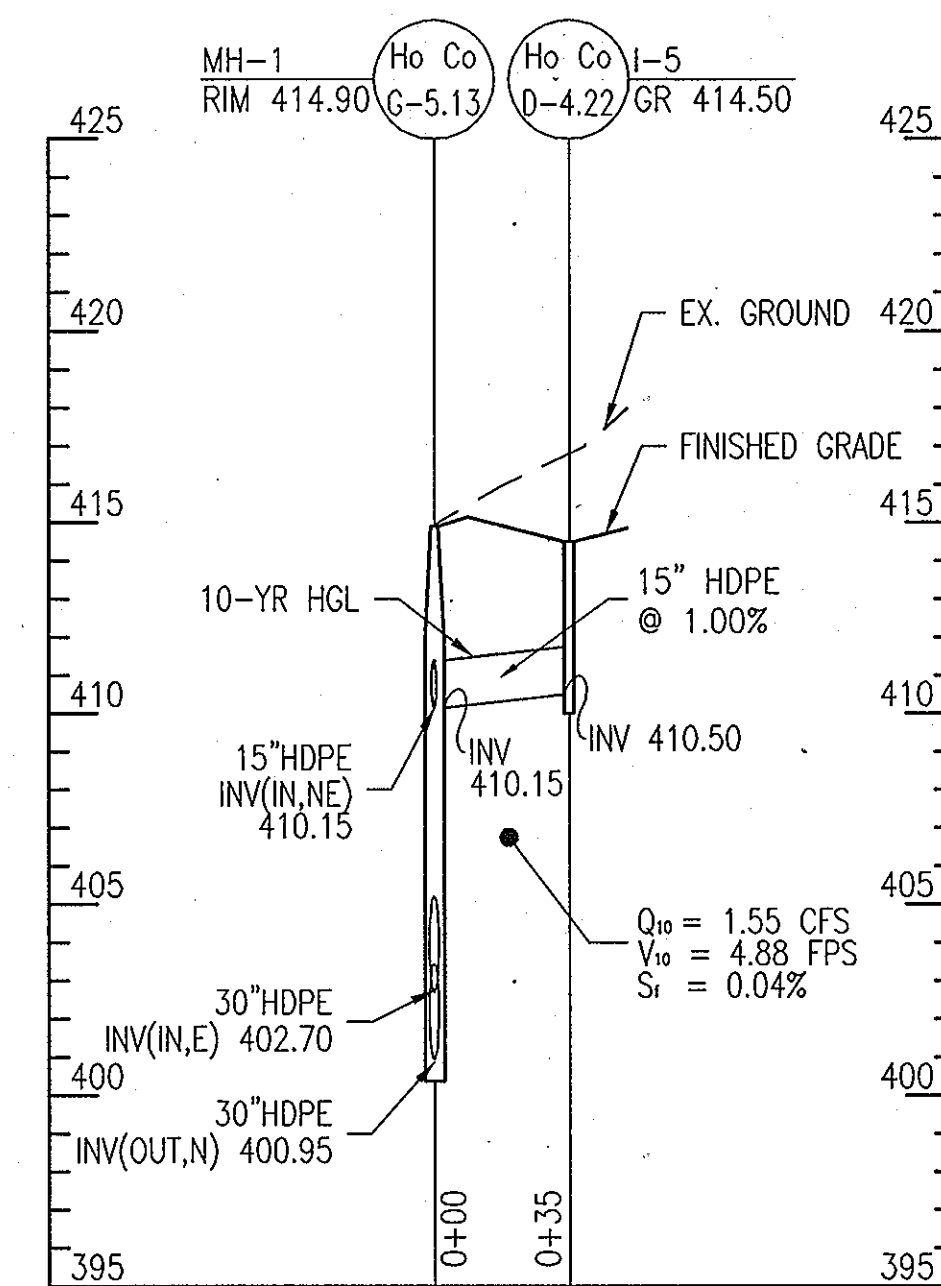
[Signature] DATE: 3/31/2010
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT



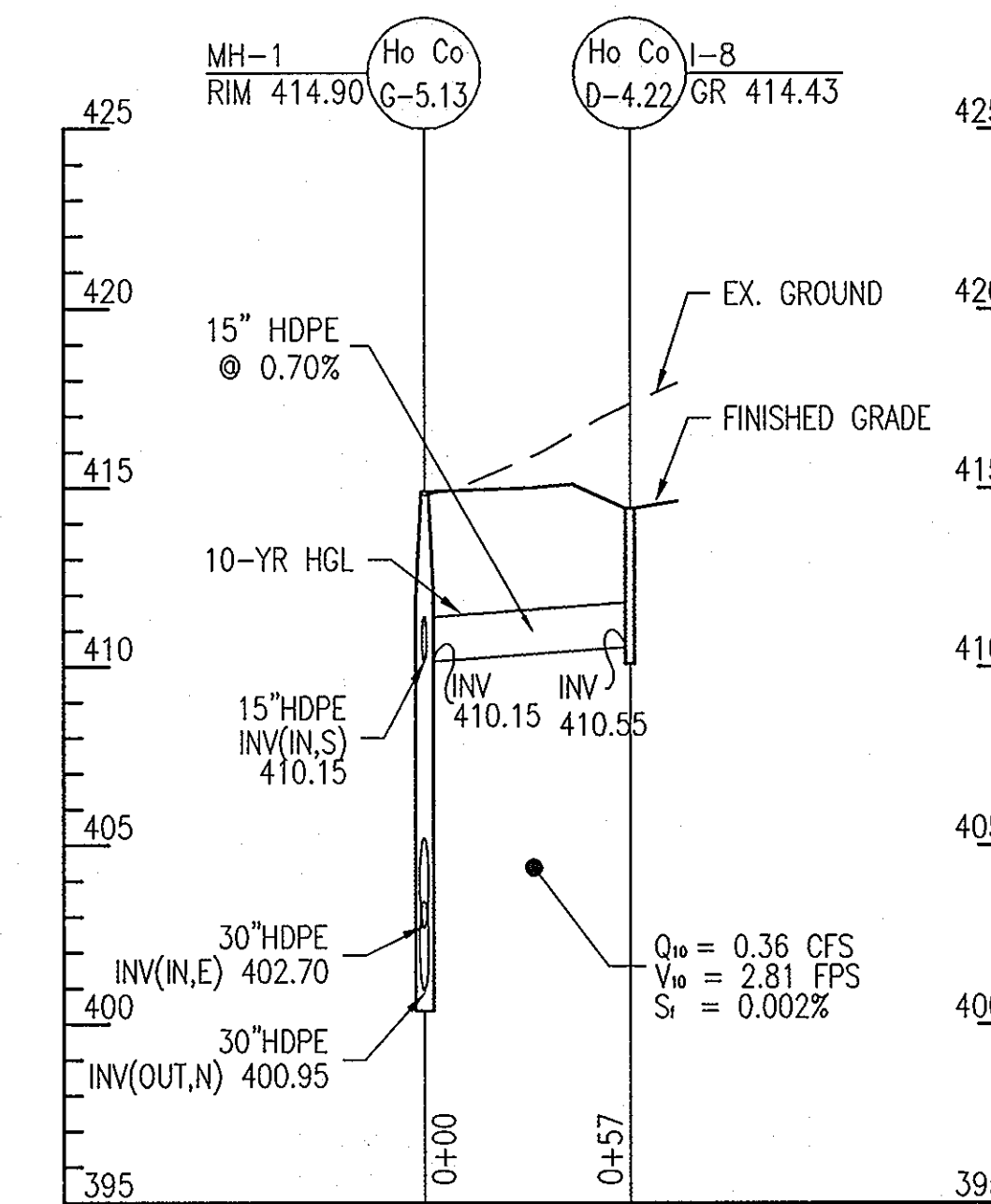
STORM DRAIN PROFILE: I-1 TO ES-1
SCALE: 1" = 50' HORIZONTAL, 1" = 5' VERTICAL



STORM DRAIN PROFILE: I-1 TO ES-1
SCALE: 1" = 50' HORIZONTAL, 1" = 5' VERTICAL



STORM DRAIN PROFILE: I-5 TO MH-1
SCALE: 1" = 50' HORIZONTAL, 1" = 5' VERTICAL



STORM DRAIN PROFILE: I-8 TO MH-1
SCALE: 1" = 50' HORIZONTAL, 1" = 5' VERTICAL

REVISIONS	

HOWARD COUNTY
DEPARTMENT OF RECREATION AND PARKS
7120 OAKLAND MILLS ROAD
COLUMBIA, MD 21046

DEPARTMENT OF PUBLIC WORKS
9250 BENDIX ROAD
ELLCOTT CITY, MD 21043



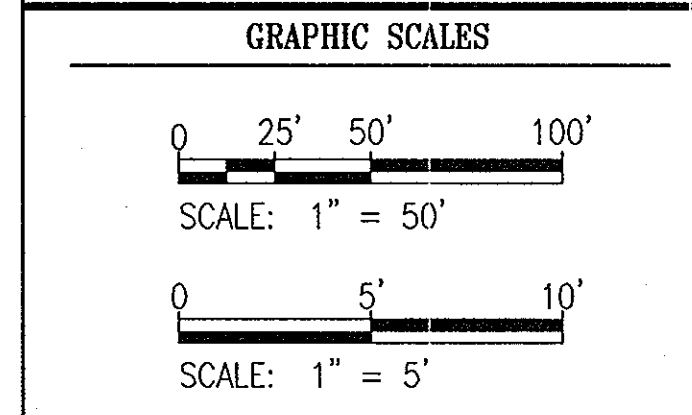
WHITMAN, REQUARDT & ASSOCIATES, LLP
801 South Caroline Street, Baltimore, Maryland 21231
Phone: 410-235-3450 Fax: 410-243-5716

PROPERTY

TAX MAP 36, GRID 5, PARCEL 3,72

ZONING: RC-DEO

ELECTION DISTRICT 3/7



SIGNATURE

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19376
EXPIRATION DATE: 09/22/2011

BLANDAIR REGIONAL PARK - PHASE 1

STORM DRAIN PROFILES

Drawing No.
C2.1

Scale: AS SHOWN

Date: 02/19/10 Sheet 21 of 51

Des: RBC Drawn: CJK Check: AUO

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 3/1/10
CHIEF, DEVELOPMENT ENGINEERING DIVISION

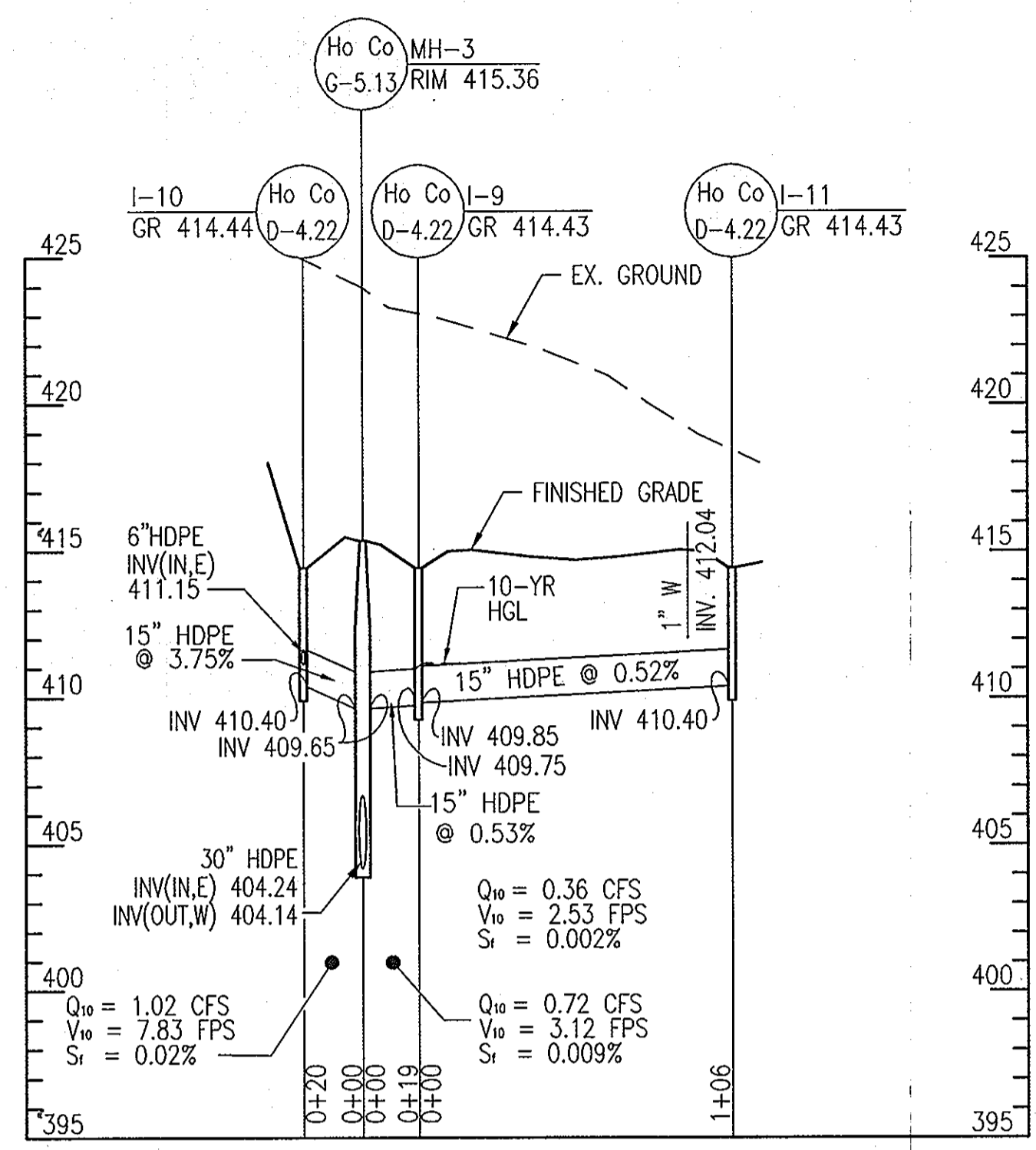
[Signature] 4/08/10
CHIEF, DIVISION OF LAND DEVELOPMENT

[Signature] 4/8/10
DIRECTOR

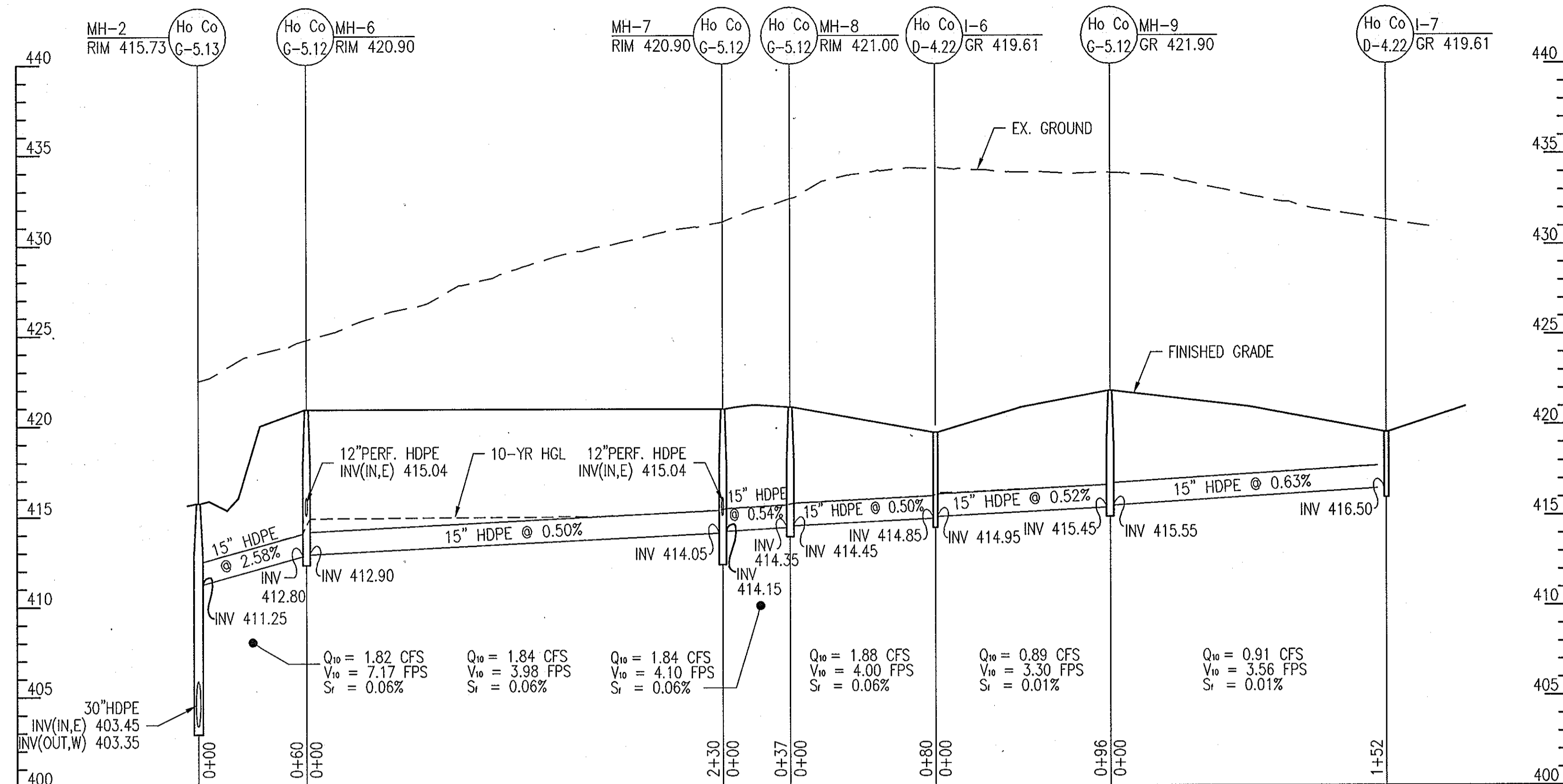
APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS

[Signature] 3/31/2010
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT

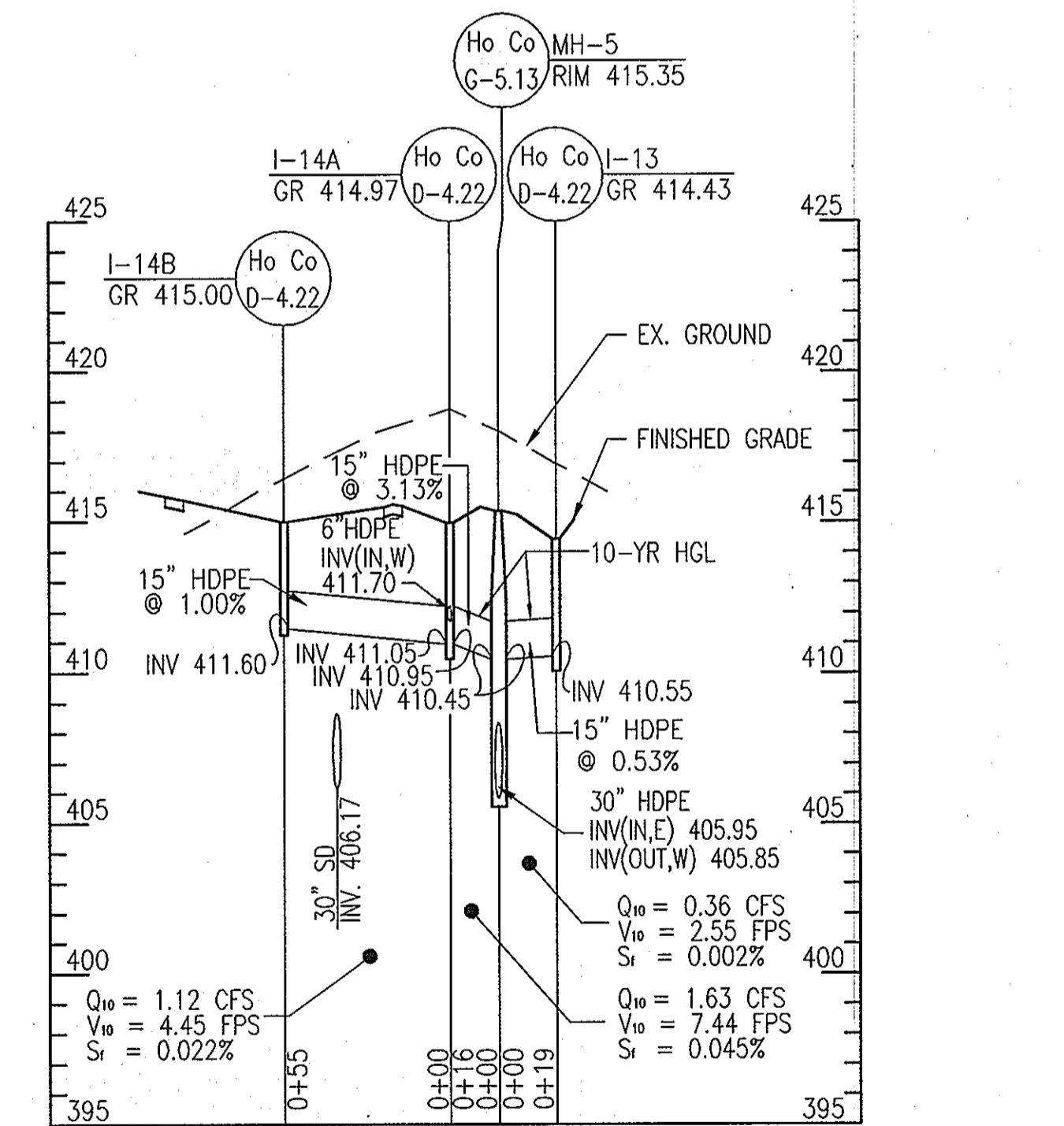
FILENAME: N:\19376-001\DWG\SDP10-007.DWG



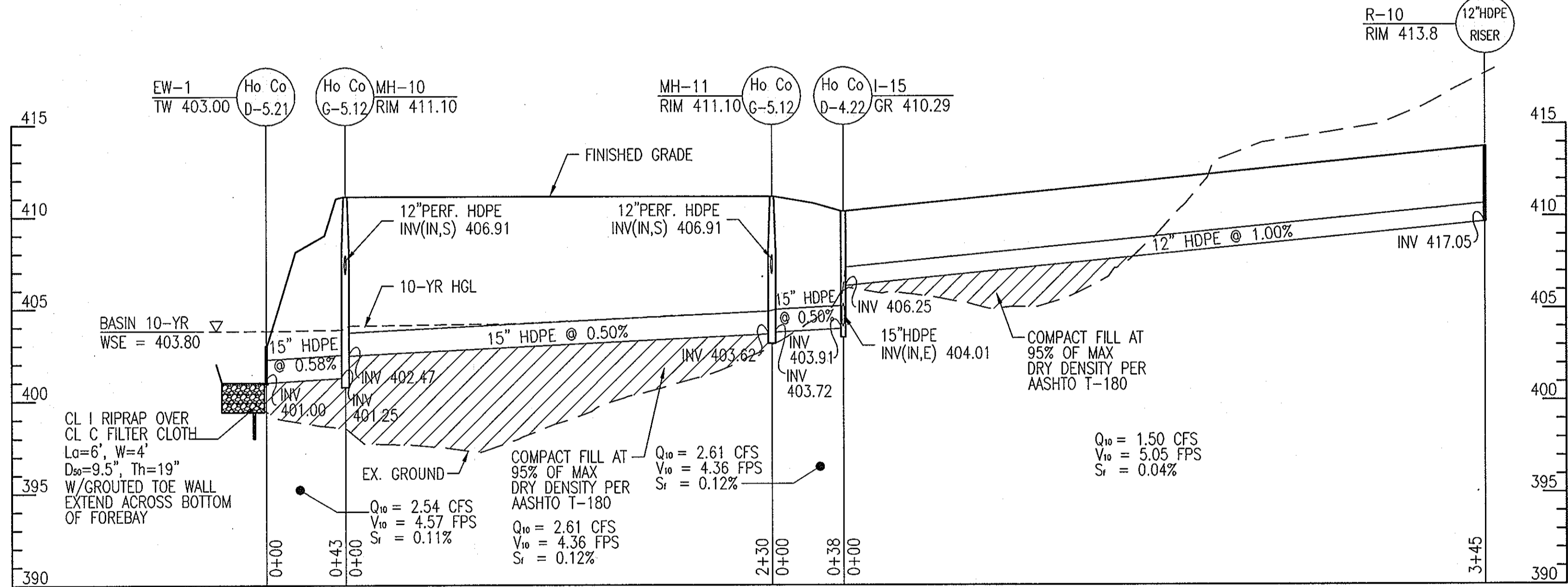
STORM DRAIN PROFILE: I-10 TO I-11
SCALE: 1" = 50' HORIZONTAL, 1" = 5' VERTICAL



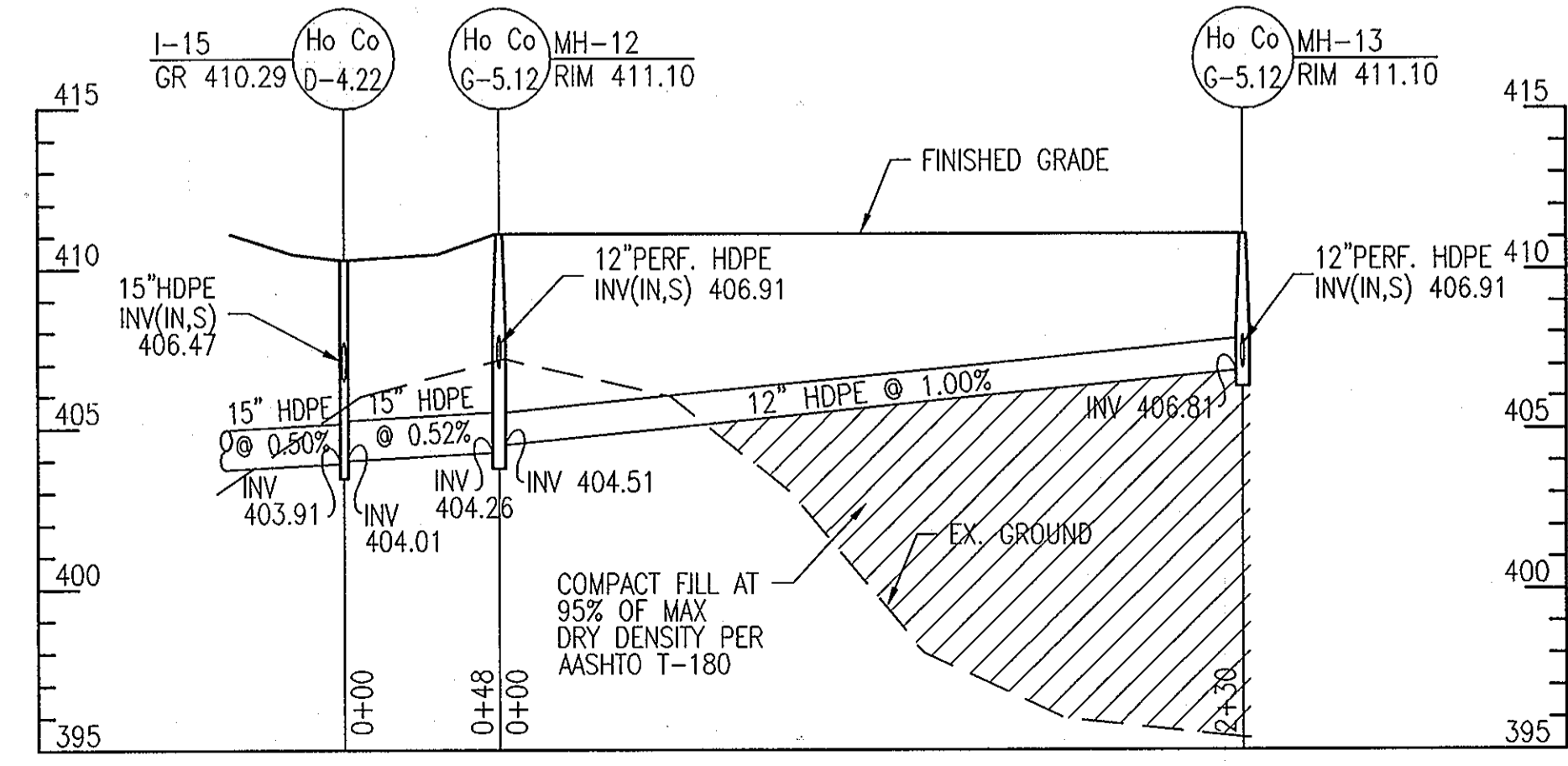
STORM DRAIN PROFILE: I-7 TO MH-2
SCALE: 1" = 50' HORIZONTAL, 1" = 5' VERTICAL



STORM DRAIN PROFILE: I-13 & I-14 TO MH-5
SCALE: 1" = 50' HORIZONTAL, 1" = 5' VERTICAL



STORM DRAIN PROFILE: I-16 TO EW-1
SCALE: 1" = 50' HORIZONTAL, 1" = 5' VERTICAL



STORM DRAIN PROFILE: MH-13 TO I-15
SCALE: 1" = 50' HORIZONTAL, 1" = 5' VERTICAL

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 [Signature]
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 3/9/10

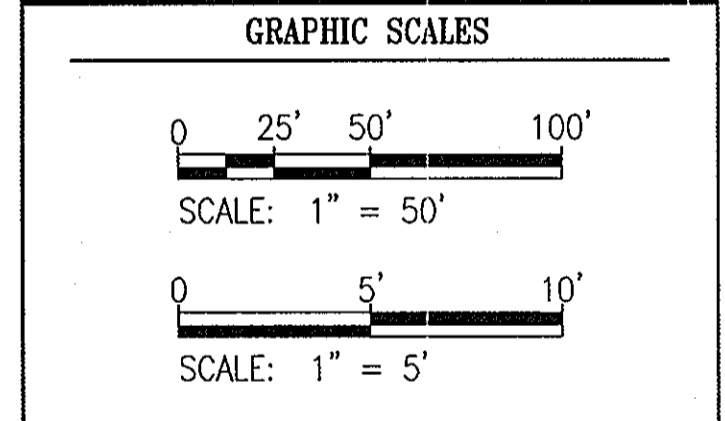
APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS
 [Signature]
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT
 DATE: 3/31/2010

REVISIONS	

HOWARD COUNTY
 DEPARTMENT OF RECREATION AND PARKS
 7120 OAKLAND MILLS ROAD
 COLUMBIA, MD 21046
 DEPARTMENT OF PUBLIC WORKS
 9250 BENDIX ROAD
 ELLICOTT CITY, MD 21043

WR&A
 WHITMAN, REQUARDT & ASSOCIATES, LLP
 801 South Caroline Street, Baltimore, Maryland 21231
 Phone: 410-235-3450 Fax: 410-243-8716

PROPERTY
 TAX MAP 36, GRID 5, PARCEL 3,72
 ZONING: RC-DEO
 ELECTION DISTRICT 3/7



SIGNATURE
 [Signature]
 STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 LICENSE NO. 19376
 EXPIRATION DATE: 09/22/2011

PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19376, EXPIRATION DATE: 09/22/2011

BLANDAIR REGIONAL PARK - PHASE 1

STORM DRAIN PROFILES
 Drawing No. C2.2
 Scale: 1" = 50'
 Date: 02/19/10 Sheet 22 of 51
 Des: CYH Drawn: CYH Check: AUO
 SDP-10-007

REVISIONS	

HOWARD COUNTY

DEPARTMENT OF
RECREATION AND PARKS
7120 OAKLAND MILLS ROAD
COLUMBIA, MD 21046

DEPARTMENT OF
PUBLIC WORKS
9250 BENDIX ROAD
ELLICOTT CITY, MD 21043

WR&A

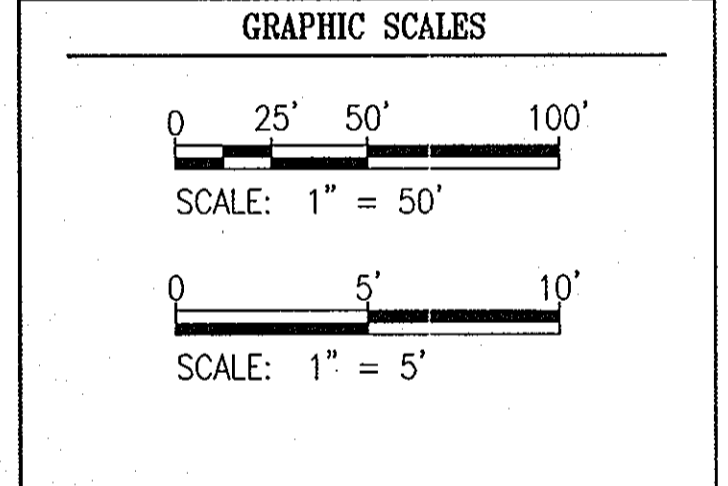
WHITMAN, REQUARDT
& ASSOCIATES, LLP
801 South Caroline Street, Baltimore, Maryland 21231
Phone: 410-235-3450 Fax: 410-243-5716

PROPERTY

TAX MAP 36, GRID 5, PARCEL 3,72

ZONING: RC-DEO

ELECTION DISTRICT 3/7



SIGNATURE

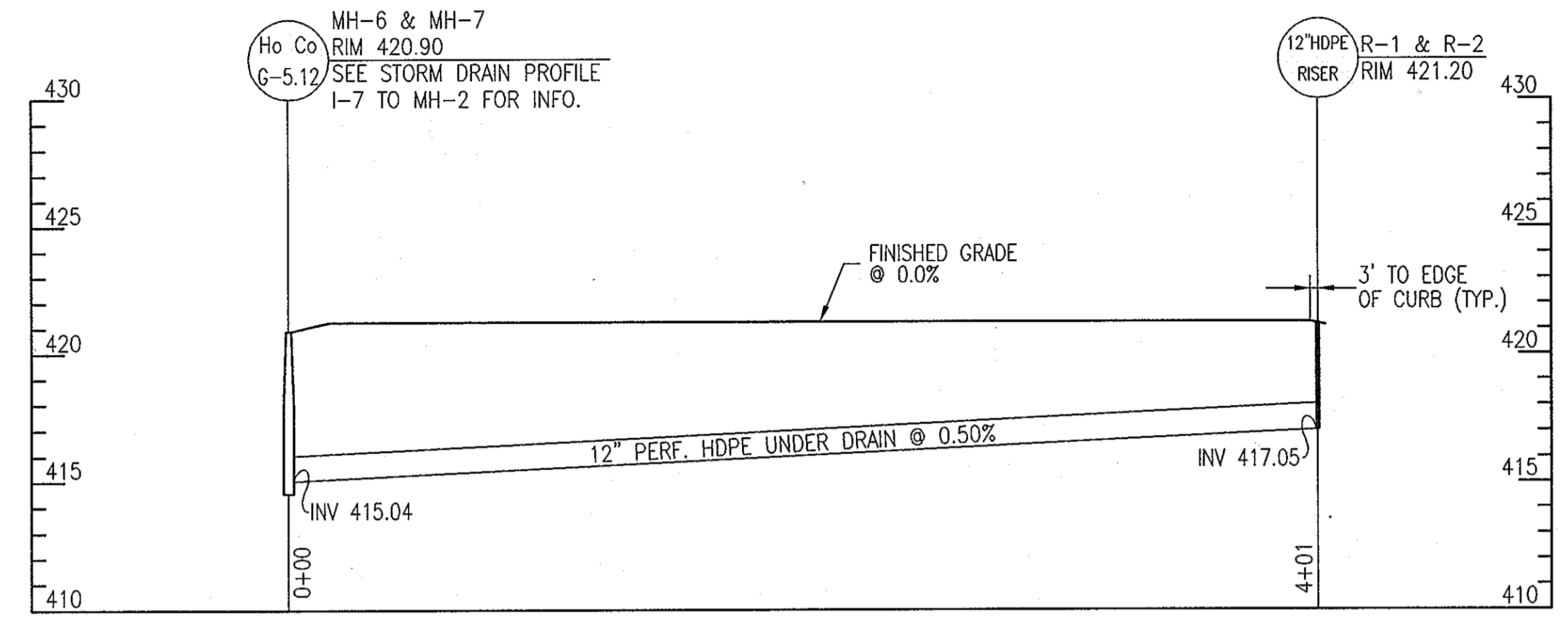
PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE
PREPARED OR APPROVED BY ME, AND THAT I AM A DULY
LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF
THE STATE OF MARYLAND, LICENSE NO. 19376
EXPIRATION DATE: 09/22/2011

**BLANDAIR REGIONAL
PARK - PHASE 1**

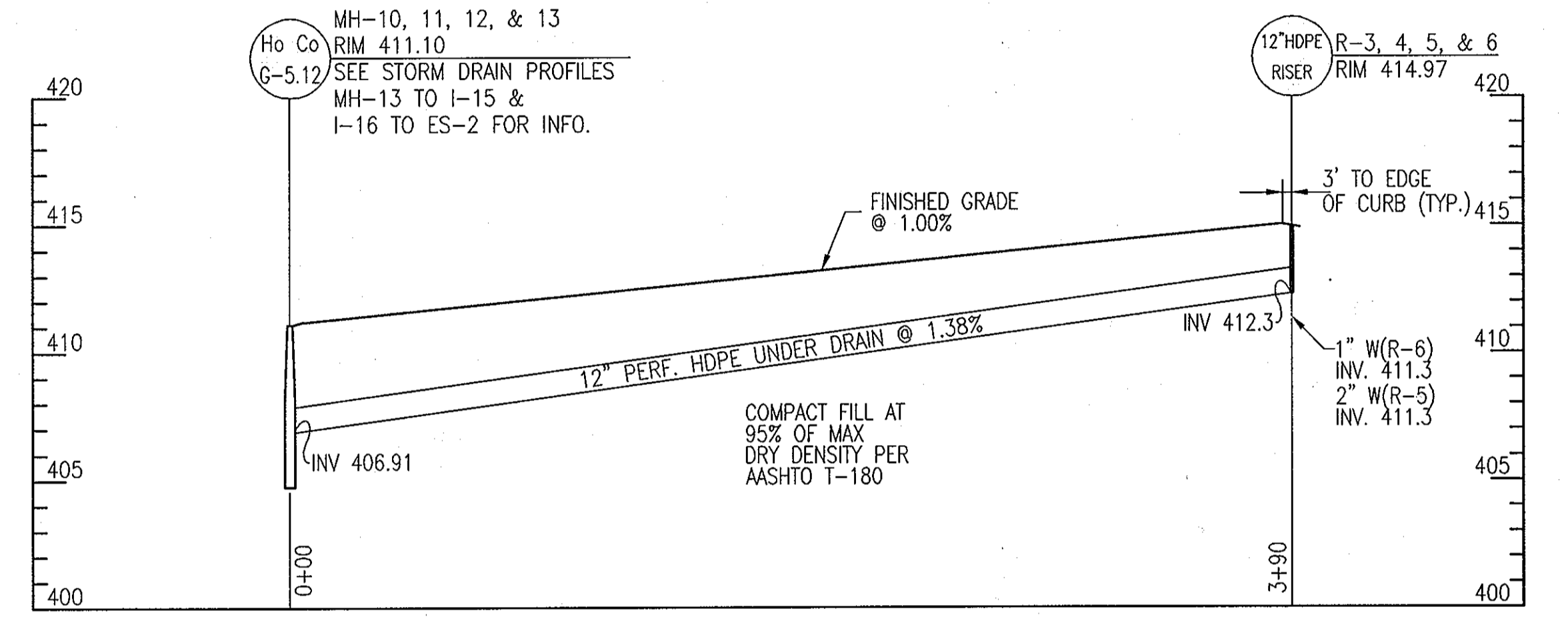
STORM DRAIN PROFILES

Drawing No.
C2.3

Scale: AS SHOWN
Date: 02/19/10 Sheet 23 of 51
Des: CYH Drawn: CYH Check: AUO



UNDER DRAIN PROFILE: R-1 & R-2 TO MH-6 & MH-7
SCALE: 1" = 50' HORIZONTAL, 1" = 5' VERTICAL



UNDER DRAIN PROFILE: R-3, 4, 5 & 6 TO MH-10, 11, 12 & 13
SCALE: 1" = 50' HORIZONTAL, 1" = 5' VERTICAL

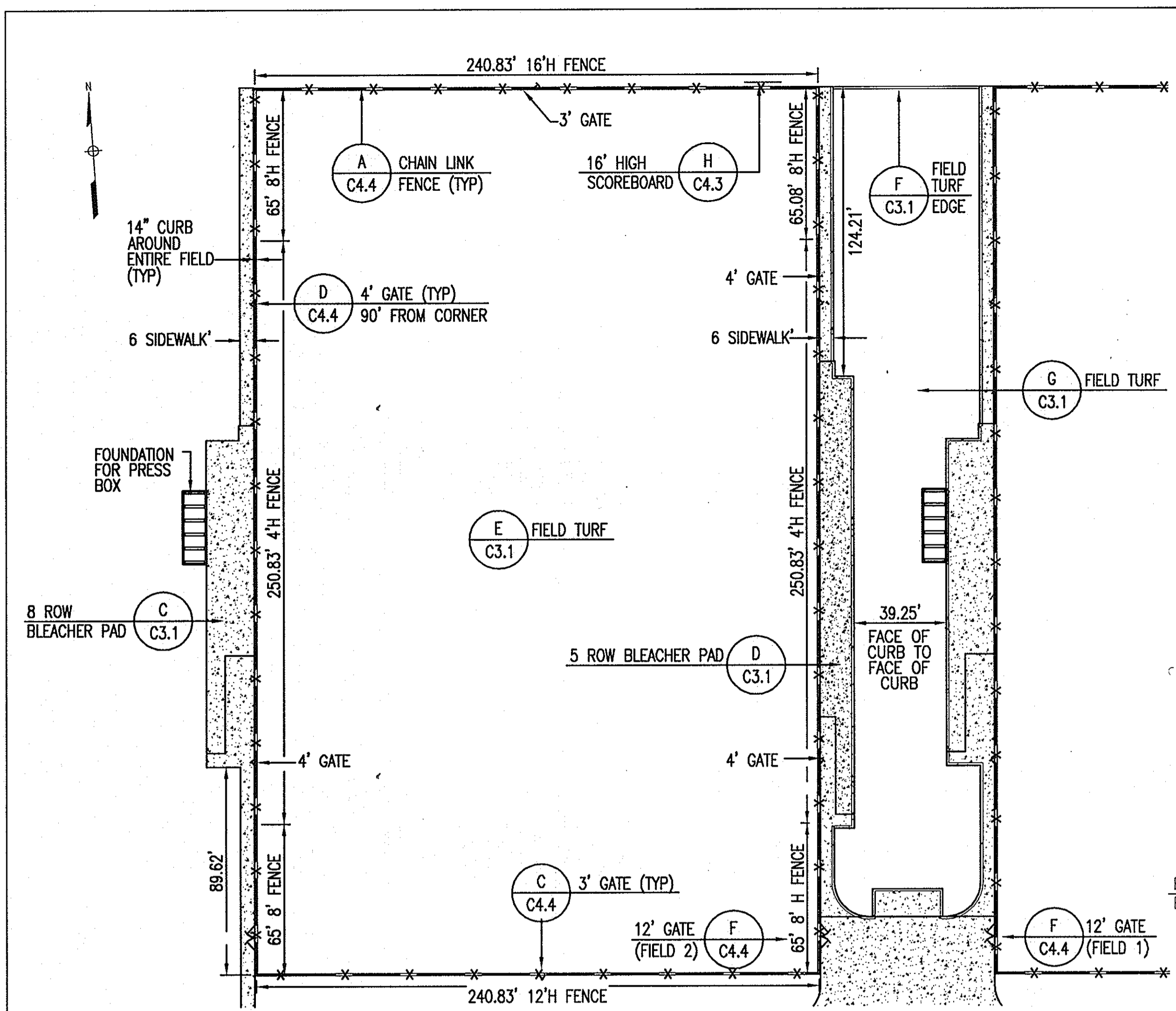
STORM DRAIN STRUCTURE SCHEDULE		
NO.	TYPE	STANDARD DETAIL
ES-1	CONCRETE END SECTION	HO. CO. SD 5.51
EW-1	TYPE 'C' ENDWALL	HO. CO. SD 5.21
I-1	TYPE 'D' INLET	HO. CO. SD 4.10
I-2	TYPE 'D' INLET	HO. CO. SD 4.10
I-3	TYPE 'D' INLET	HO. CO. SD 4.10
I-4A	TYPE 'D' INLET	HO. CO. SD 4.10
I-4B	TYPE 'D' INLET	HO. CO. SD 4.10
I-5	TYPE 'S' INLET	HO. CO. SD 4.22
I-6	TYPE 'S' INLET	HO. CO. SD 4.22
I-7	TYPE 'S' INLET	HO. CO. SD 4.22
I-8	TYPE 'S' INLET	HO. CO. SD 4.22
I-9	TYPE 'S' INLET	HO. CO. SD 4.22
I-10	TYPE 'S' INLET	HO. CO. SD 4.22
I-11	TYPE 'S' INLET	HO. CO. SD 4.22
I-13	TYPE 'S' INLET	HO. CO. SD 4.22
I-14A	TYPE 'S' INLET	HO. CO. SD 4.22
I-14B	TYPE 'S' INLET	HO. CO. SD 4.22
I-15	TYPE 'S' INLET	HO. CO. SD 4.22
MH-1	5'-0" PRECAST MANHOLE	HO. CO. G 5.13
MH-2	5'-0" PRECAST MANHOLE	HO. CO. G 5.13
MH-3	5'-0" PRECAST MANHOLE	HO. CO. G 5.13
MH-5	5'-0" PRECAST MANHOLE	HO. CO. G 5.13
MH-6	4'-0" PRECAST MANHOLE	HO. CO. G 5.12
MH-7	4'-0" PRECAST MANHOLE	HO. CO. G 5.12
MH-8	4'-0" PRECAST MANHOLE	HO. CO. G 5.12
MH-9	4'-0" PRECAST MANHOLE	HO. CO. G 5.12
MH-10	4'-0" PRECAST MANHOLE	HO. CO. G 5.12
MH-11	4'-0" PRECAST MANHOLE	HO. CO. G 5.12
MH-12	4'-0" PRECAST MANHOLE	HO. CO. G 5.12
MH-13	4'-0" PRECAST MANHOLE	HO. CO. G 5.12
R-1	12" HDPE RISER WITH VENTED CAP	-
R-2	12" HDPE RISER WITH VENTED CAP	-
R-3	12" HDPE RISER WITH VENTED CAP	-
R-4	12" HDPE RISER WITH VENTED CAP	-
R-5	12" HDPE RISER WITH VENTED CAP	-
R-6	12" HDPE RISER WITH VENTED CAP	-
R-7	6" HDPE RISER WITH VENTED CAP	-
R-8	6" HDPE RISER WITH VENTED CAP	-
R-9	6" HDPE RISER WITH VENTED CAP	-
R-10	12" HDPE RISER WITH VENTED CAP	-

STORM DRAIN PIPE SCHEDULE				
FROM	TO	SIZE	TYPE	LENGTH
I-4B	I-4A	15	HDPE	72
I-4A	I-3	18	HDPE	163
I-3	I-1	24	HDPE	132
I-2	I-1	18	HDPE	163
I-1	MH-5	30	HDPE	361
R-9	I-14	6	PERF HDPE	98
R-8	I-14	6	PERF HDPE	86
I-14B	I-14A	15	HDPE	55
I-14A	MH-5	15	HDPE	16
I-13	MH-5	15	HDPE	19
MH-5	MH-3	30	HDPE	317
I-11	I-9	15	HDPE	106
I-9	MH-3	15	HDPE	19
R-7	I-10	6	PERF HDPE	191
I-10	MH-3	15	HDPE	20
MH-3	MH-2	30	HDPE	135
I-7	MH-9	15	HDPE	152
MH-9	I-6	15	HDPE	96
I-6	MH-8	15	HDPE	80
MH-8	MH-7	15	HDPE	37
R-1	MH-7	12	PERF HDPE	401
MH-7	MH-6	15	HDPE	230
R-2	MH-6	12	PERF HDPE	401
MH-6	MH-2	15	HDPE	60
MH-2	MH-1	30	HDPE	129
I-8	MH-1	15	HDPE	57
I-5	MH-1	15	HDPE	35
MH-1	ES-1	30	HDPE	165
R-6	MH-13	12	PERF HDPE	390
MH-13	MH-12	12	HDPE	230
R-5	MH-12	12	PERF HDPE	390
MH-12	I-15	15	HDPE	48
R-10	I-15	12	PERF HDPE	345
I-15	MH-11	15	HDPE	38
R-4	MH-11	12	PERF HDPE	390
MH-11	MH-10	15	HDPE	230
R-3	MH-10	12	PERF HDPE	390
MH-10	EW-1	15	HDPE	43

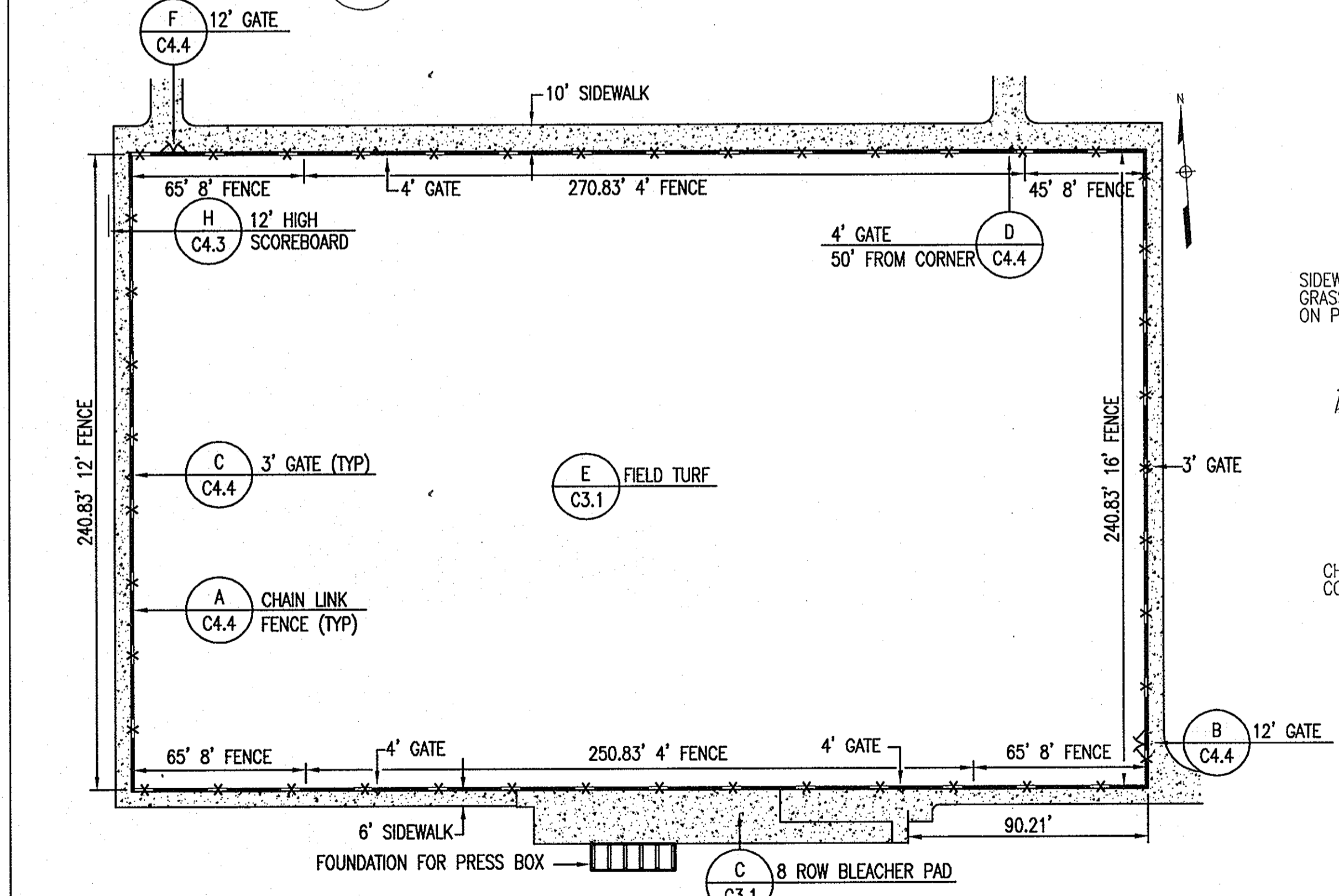
APPROVED: DEPARTMENT OF PLANNING AND ZONING
 [Signature] DATE 3/1/10
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 [Signature] DATE 4/08/10
 CHIEF, DIVISION OF LAND DEVELOPMENT
 [Signature] DATE 4/8/10
 DIRECTOR

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS
 [Signature] DATE 3/31/2010
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

FILENAME: N:\2008-2010\CADD\4208060103.DWG
 PLOT DATE: 2/19/2010 9:40 AM PAGE SETUP: SETS: GRASSISO PLOT STYLE: WPA_2006LTP3 PAPER SIZE: ARCH D 36.00 X 24.00 INCHES



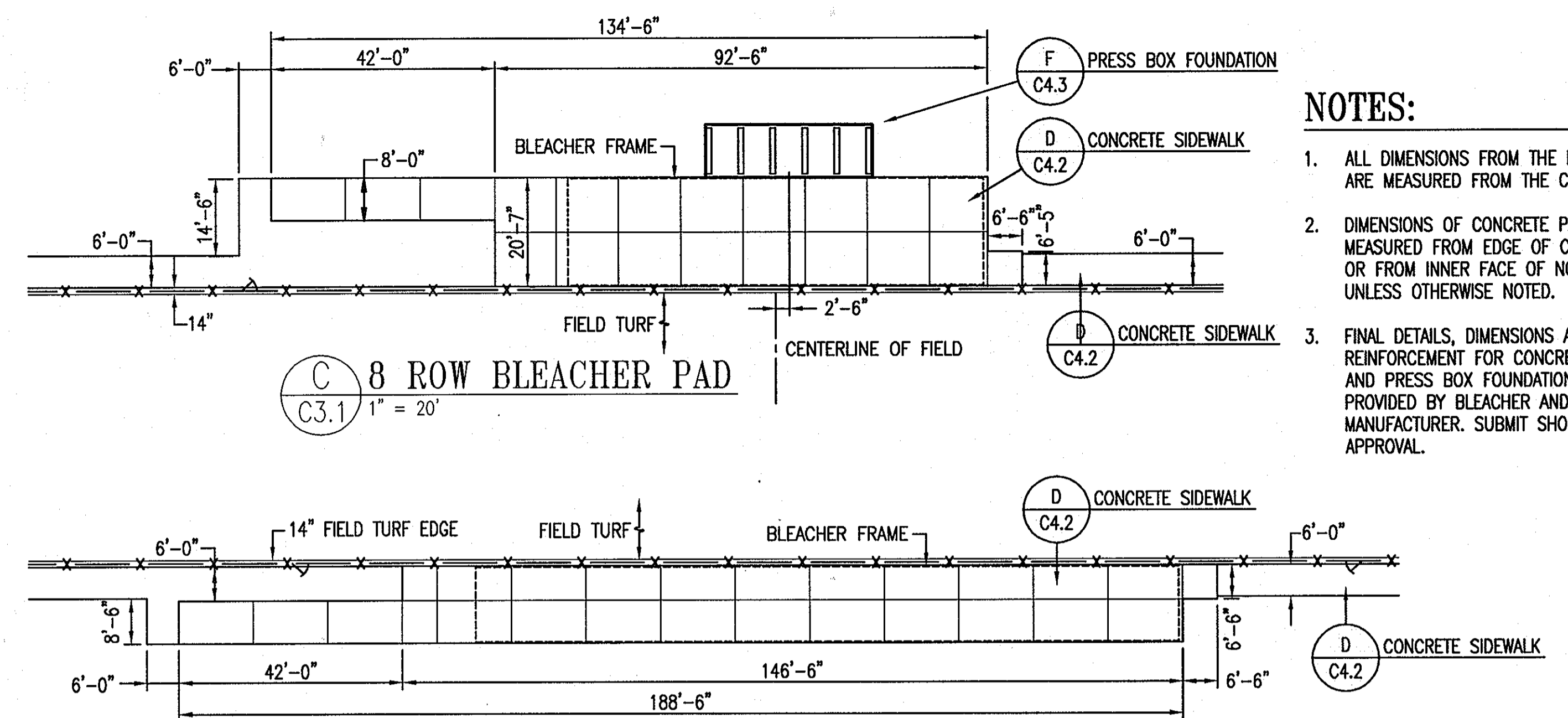
A MULTIPURPOSE FIELD #1 AND #2
C3.1 1" = 40'



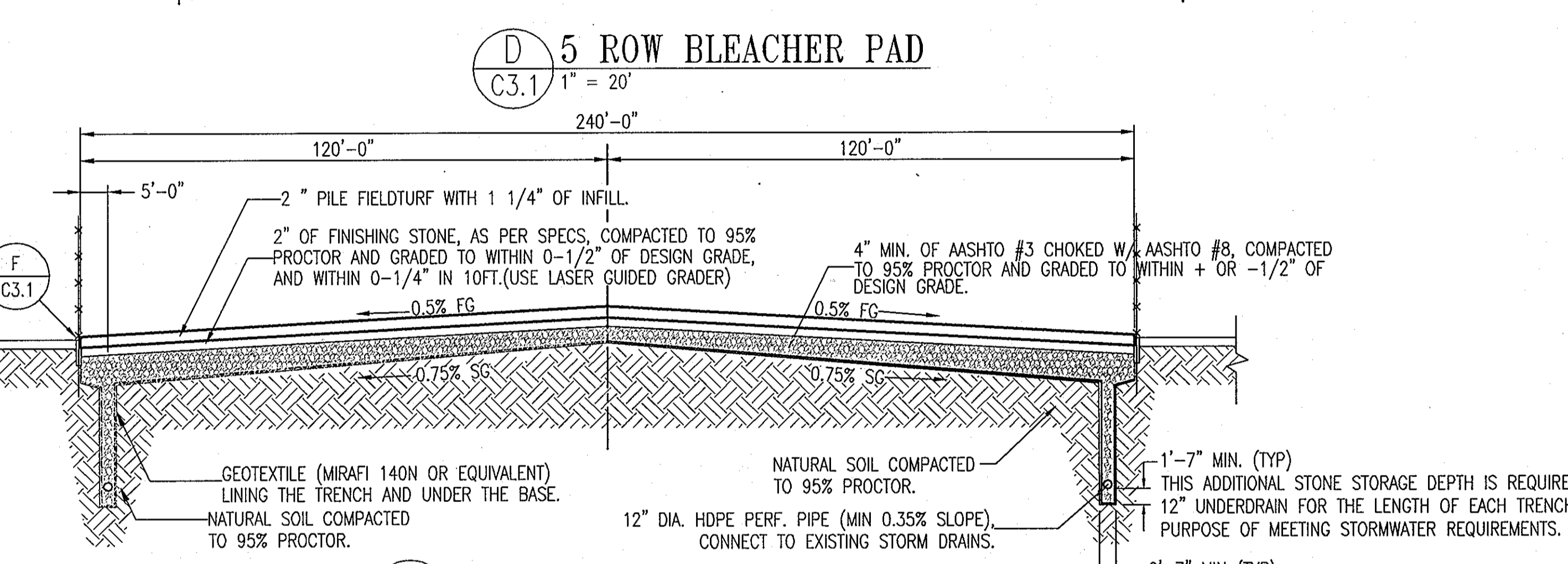
B MULTIPURPOSE FIELD #3
C3.1 1" = 40'

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 [Signature] DATE 3/1/10
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 [Signature] DATE 4/08/10
 CHIEF, DIVISION OF LAND DEVELOPMENT
 [Signature] DATE 4/8/10
 DIRECTOR

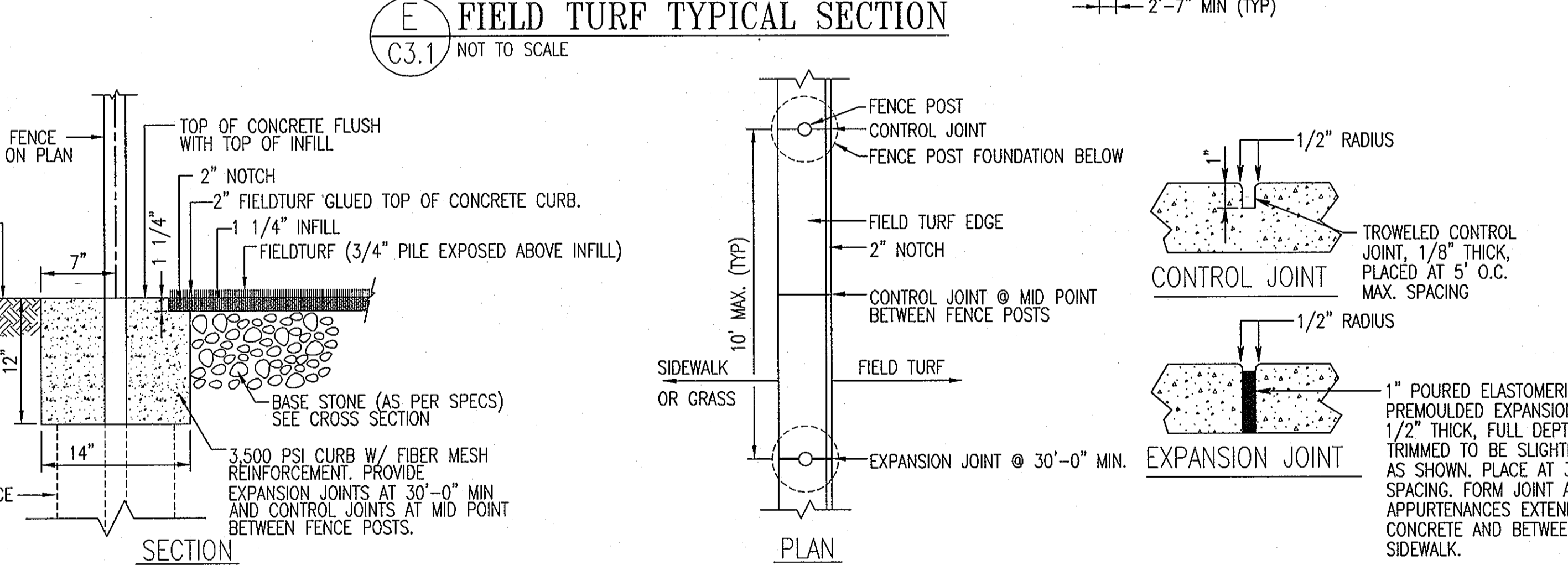
APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS
 [Signature] DATE 3/31/2010
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT



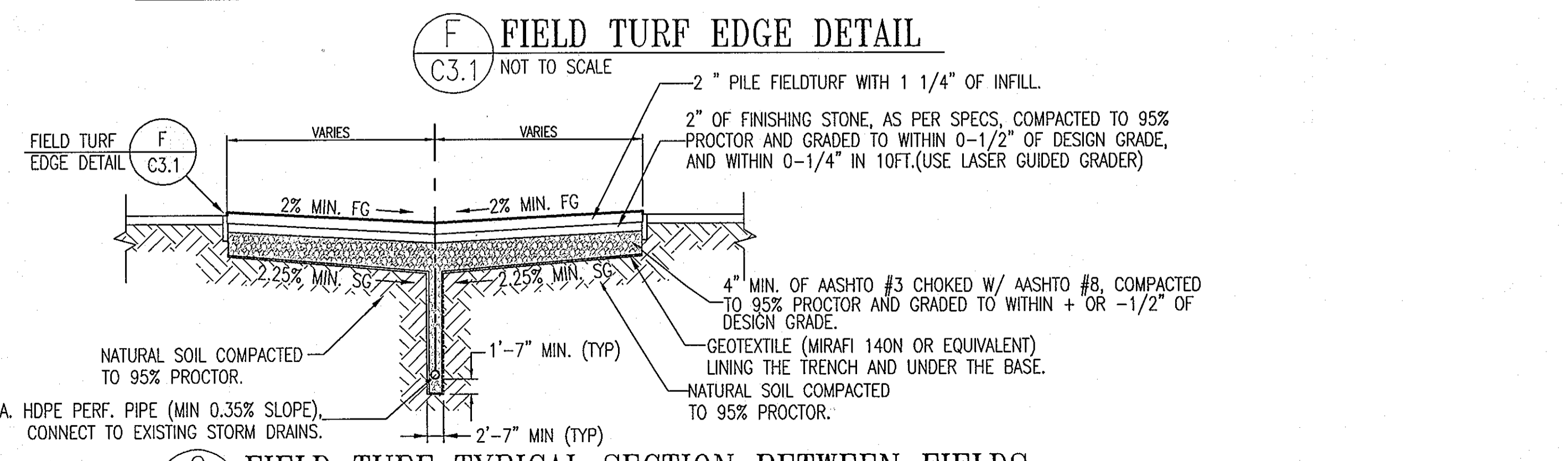
C 8 ROW BLEACHER PAD
C3.1 1" = 20'



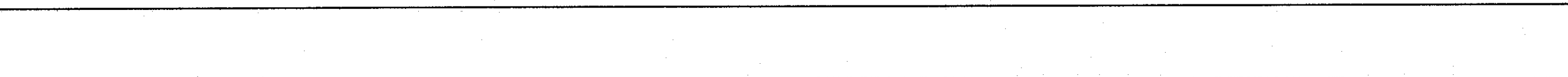
D 5 ROW BLEACHER PAD
C3.1 1" = 20'



E FIELD TURF TYPICAL SECTION
C3.1 NOT TO SCALE



F FIELD TURF EDGE DETAIL
C3.1 NOT TO SCALE



G FIELD TURF TYPICAL SECTION BETWEEN FIELDS
C3.1 NOT TO SCALE

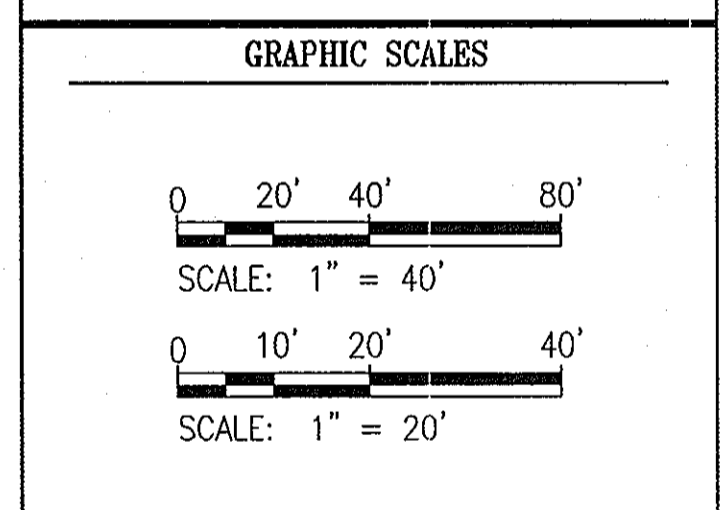
- NOTES:**
- ALL DIMENSIONS FROM THE MULTIPURPOSE FIELDS ARE MEASURED FROM THE CENTERLINE OF FENCE.
 - DIMENSIONS OF CONCRETE PAVEMENT ARE MEASURED FROM EDGE OF CONCRETE PAVEMENT OR FROM INNER FACE OF NOTCH ON TURF EDGE, UNLESS OTHERWISE NOTED.
 - FINAL DETAILS, DIMENSIONS AND STEEL REINFORCEMENT FOR CONCRETE BLEACHER PADS AND PRESS BOX FOUNDATIONS ARE TO BE PROVIDED BY BLEACHER AND PRESS BOX MANUFACTURER. SUBMIT SHOP DRAWINGS FOR APPROVAL.

REVISIONS	

HOWARD COUNTY
 DEPARTMENT OF RECREATION AND PARKS
 7120 OAKLAND MILLS ROAD
 COLUMBIA, MD 21046
 DEPARTMENT OF PUBLIC WORKS
 9250 BENDIX ROAD
 ELLICOTT CITY, MD 21043

WR&A
 WHITMAN, REQUARDT & ASSOCIATES, LLP
 801 South Caroline Street, Baltimore, Maryland 21231
 Phone: 410-235-3450 Fax: 410-243-9716

PROPERTY
 TAX MAP 36, GRID 5, PARCEL 3,72
 ZONING: RC-DEO
 ELECTION DISTRICT 3/7

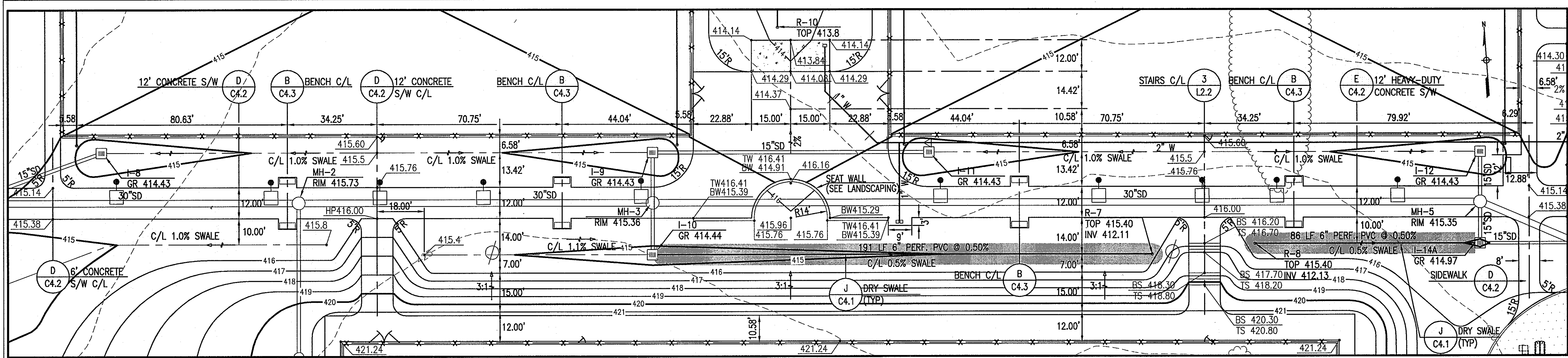


SIGNATURE

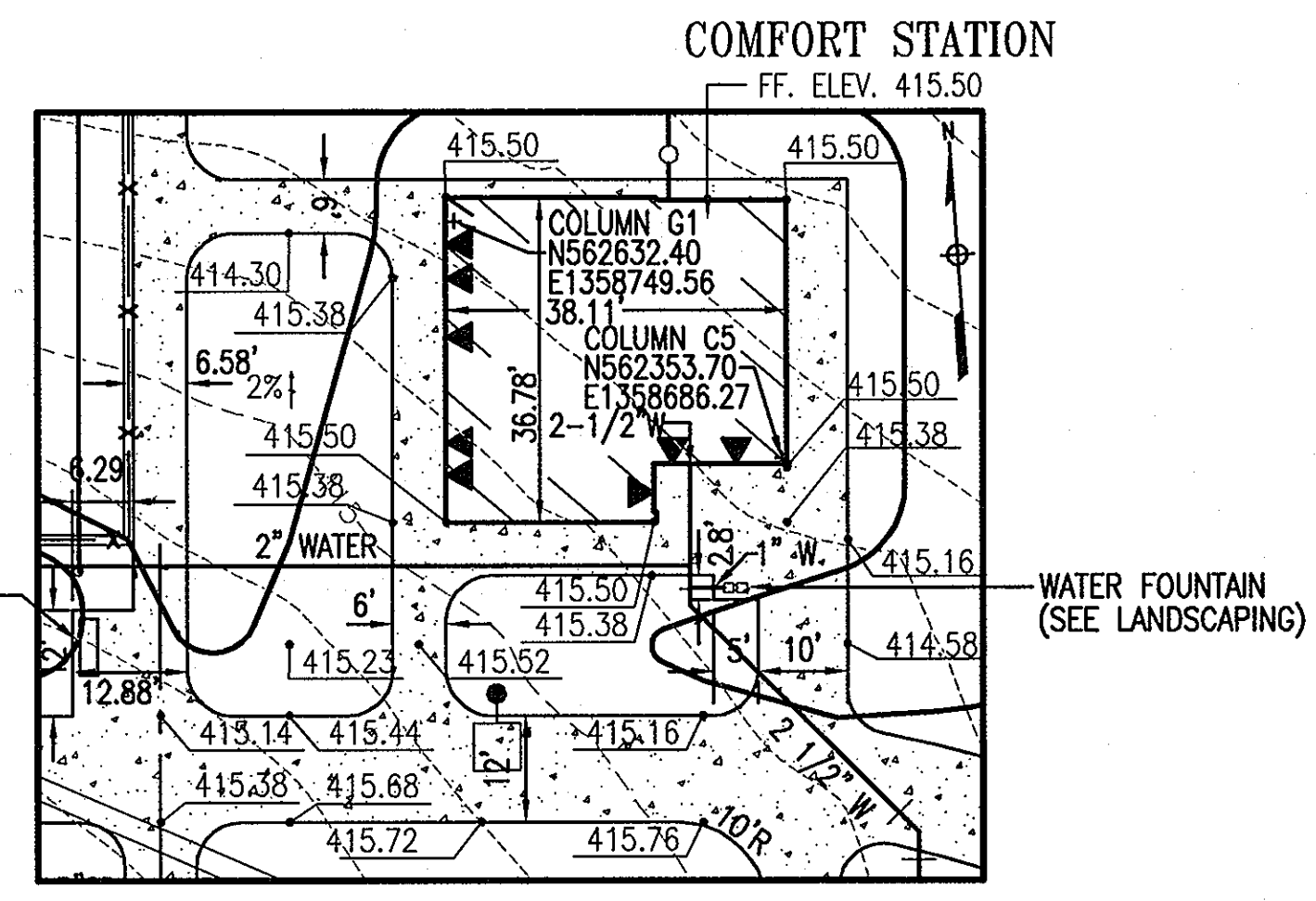
 PROFESSIONAL CERTIFICATION:
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19376, EXPIRATION DATE: 09/22/2011.

BLANDAIR REGIONAL PARK - PHASE 1

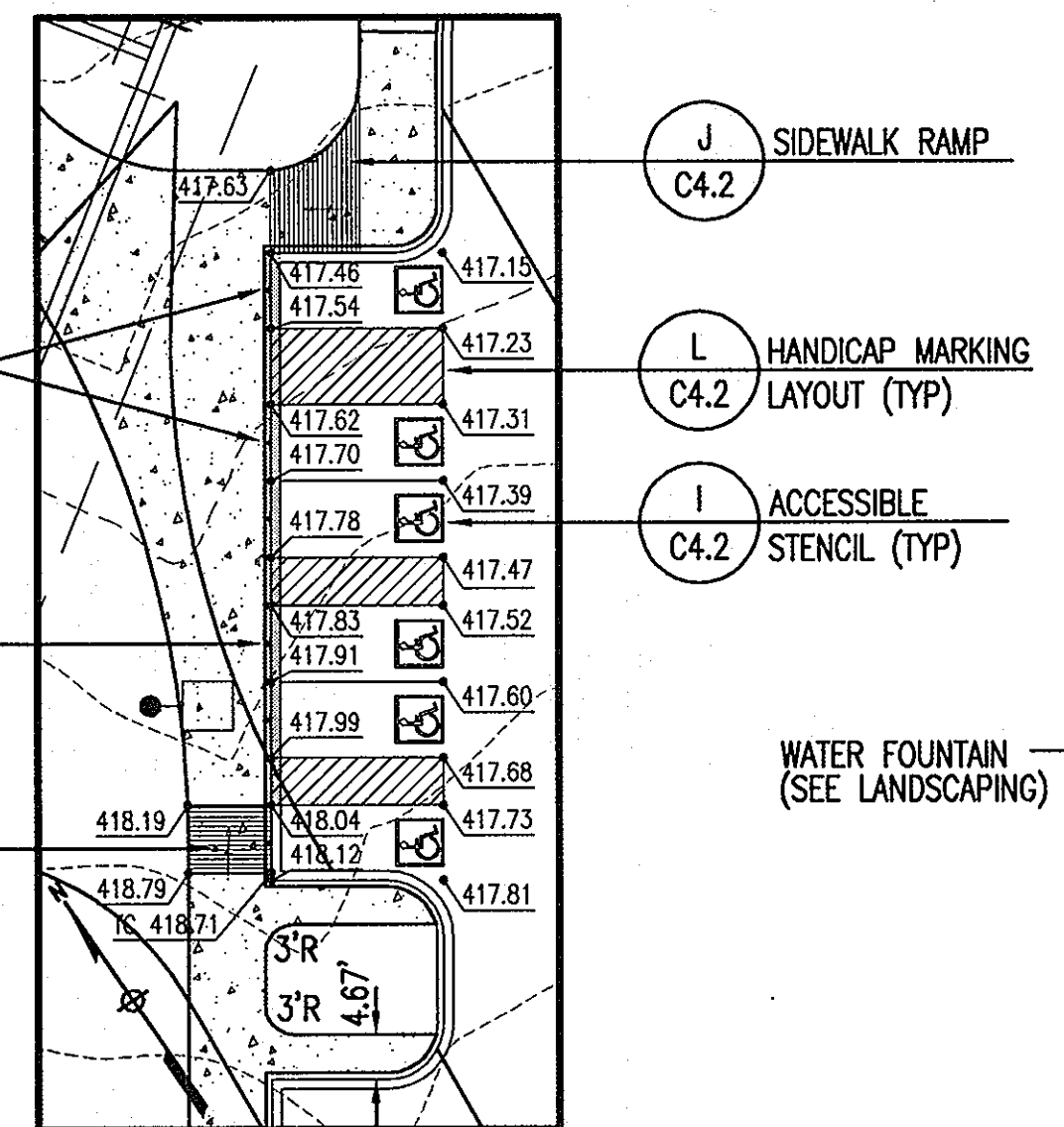
MULTIPURPOSE FIELD PLAN
 Drawing No.
C3.1
 Scale: AS SHOWN
 Date: 02/19/10 Sheet 24 of 51
 Des: CYH Drawn: CYH Check: AUO



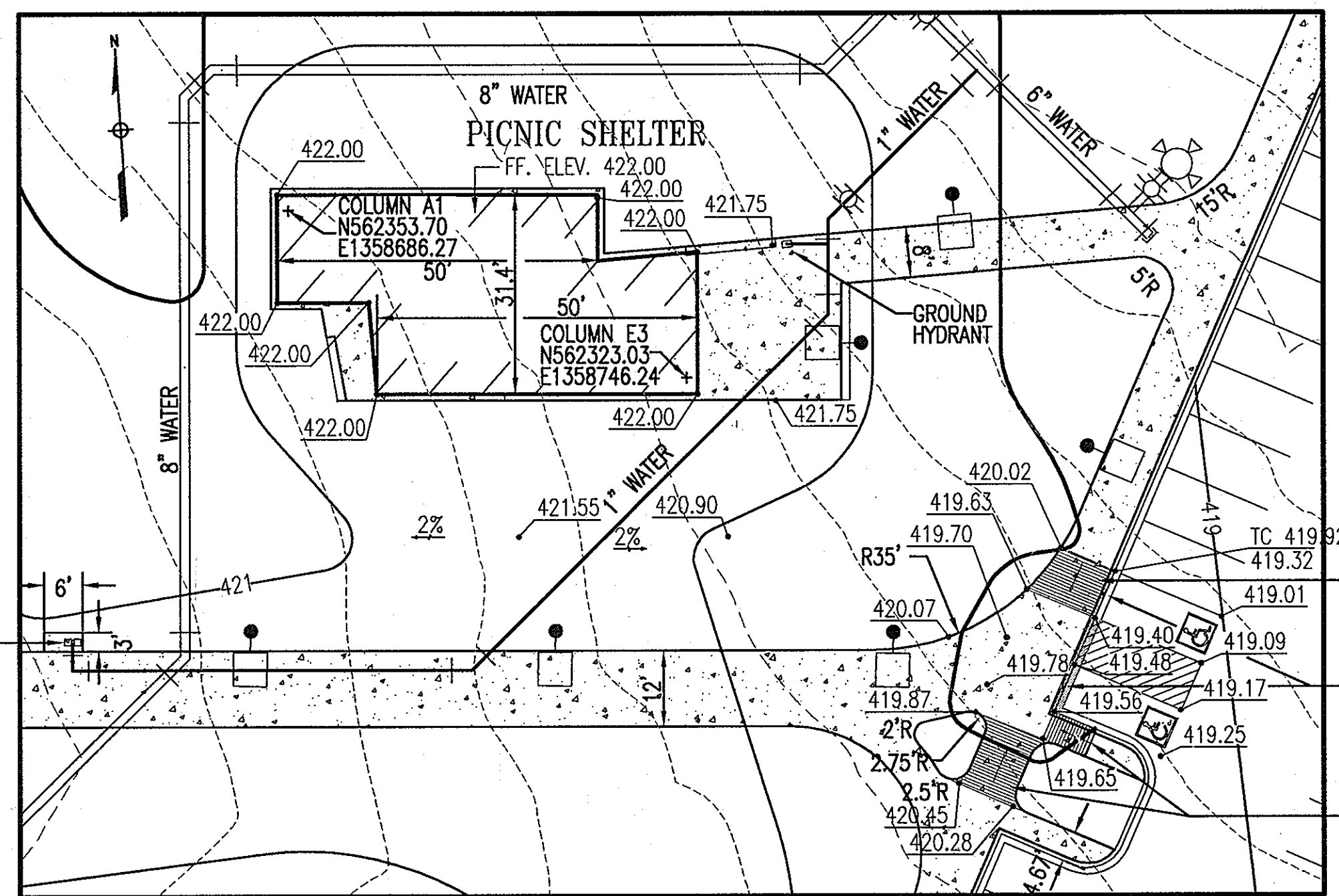
A ENLARGED WALKWAY PLAN
C3.2 1" = 20'



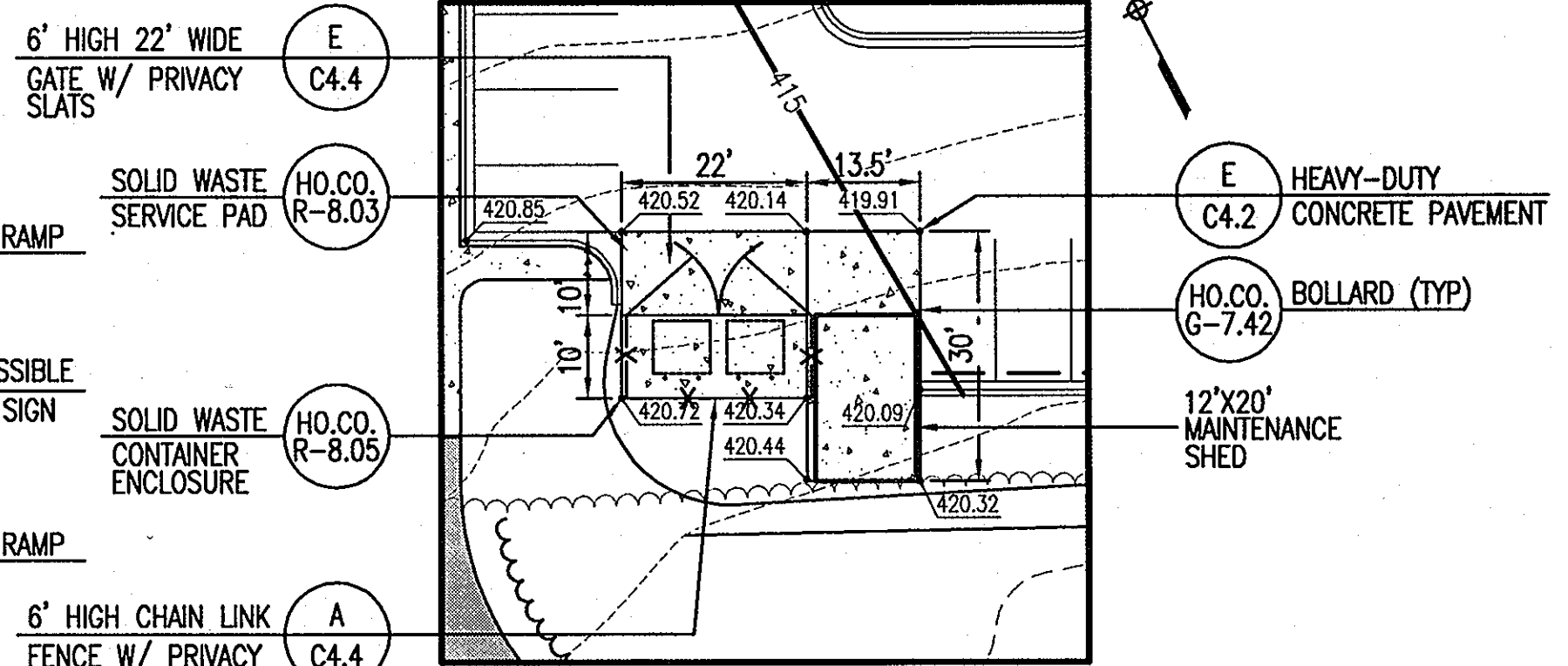
D ENLARGED COMFORT STATION PLAN
C3.2 1" = 20'



B ACCESSIBLE PARKING PLAN
C3.2 1" = 20'



C ENLARGED PICNIC SHELTER PLAN
C3.2 1" = 20'



E SERVICE AREA PLAN
C3.2 1" = 20'

REVISIONS	

HOWARD COUNTY
DEPARTMENT OF RECREATION AND PARKS
7120 OAKLAND MILLS ROAD
COLUMBIA, MD 21046

DEPARTMENT OF PUBLIC WORKS
9250 BENDIX ROAD
ELLICOTT CITY, MD 21043

WR&A
WHITMAN, REQUARDT & ASSOCIATES, LLP
801 South Caroline Street, Baltimore, Maryland 21231
Phone: 410-235-3450 Fax: 410-243-5716

PROPERTY
TAX MAP 36, GRID 5, PARCEL 3,72
ZONING: RC-DEO
ELECTION DISTRICT 3/7

GRAPHIC SCALES
0 10' 20' 40'
SCALE: 1" = 20'

SIGNATURE

PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19376, EXPIRATION DATE: 09/22/2011

BLANDAIR REGIONAL PARK - PHASE 1

ENLARGED SITE PLANS
Drawing No.
C3.2
Scale: 1" = 20'
Date: 02/19/10 Sheet 25 of 51
Des: CYH Drawn: CYH Check: AUO

APPROVED: DEPARTMENT OF PLANNING AND ZONING

DATE: 2/6/10

APPROVED: DEPARTMENT OF PLANNING AND ZONING

DATE: 4/20/10

APPROVED: DEPARTMENT OF PLANNING AND ZONING

DATE: 4/8/10

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS

DATE: 3/31/2010

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS

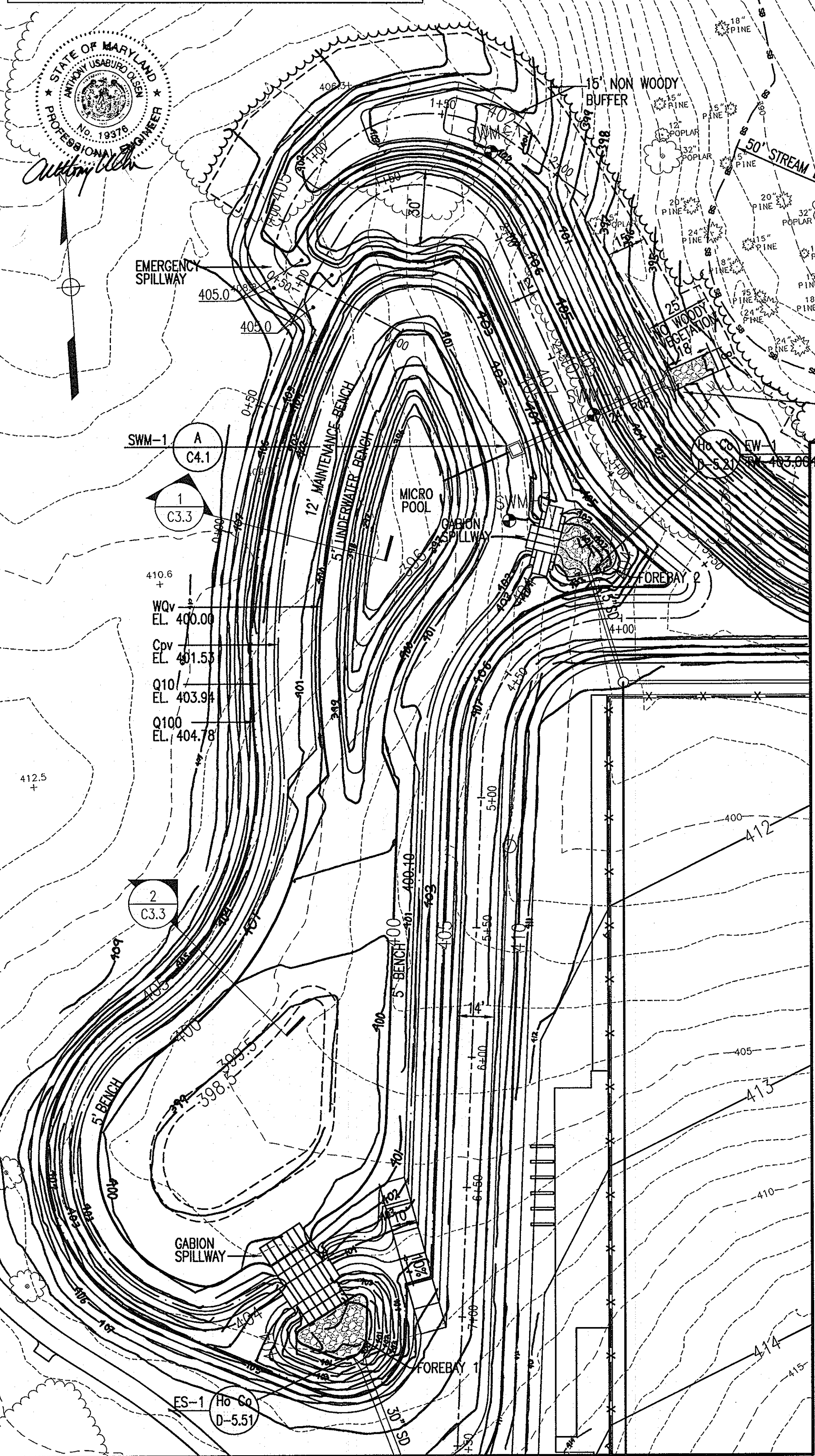
DATE: 1/10/10

FILED: IN 10238-001 CAD/DA/ES/060202/DWG

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.

Anthony U. Olson
 SIGNATURE OF ENGINEER
 (PRINT NAME BELOW SIGNATURE)

12/19/10
 DATE



A SWM POND PLAN
 C3.3 1" = 30'

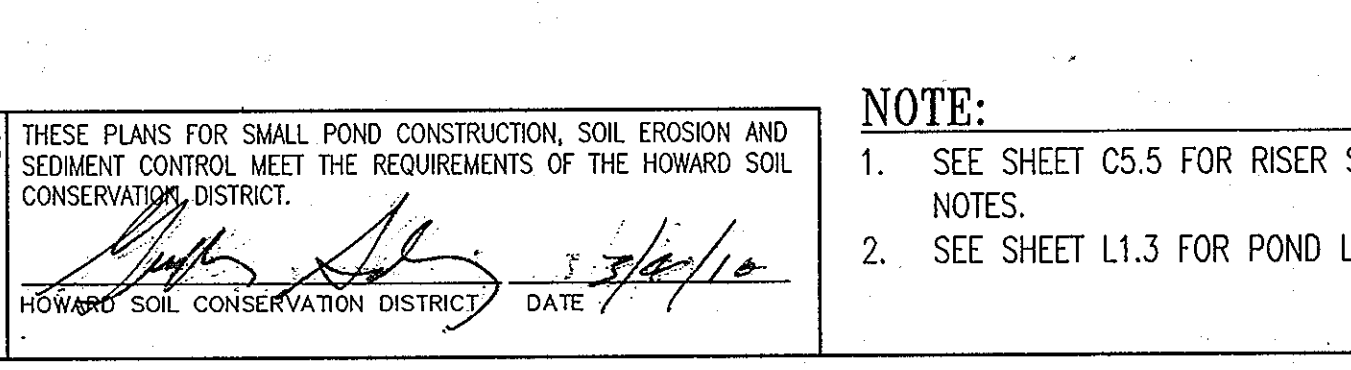
APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature]
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 3/10

APPROVED: COUNTY HEALTH OFFICER
[Signature]
 COUNTY HEALTH OFFICER
 DATE: 4/19/10

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS
[Signature]
 COUNTY HEALTH OFFICER
 DATE: 3/31/2010

APPROVED: HOWARD SOIL CONSERVATION DISTRICT
[Signature]
 DATE: 3/10/10

PROFILE OF PRINCIPAL SPILLWAY - 24" RCP
 SCALE: 1" = 50' HORIZONTAL, 1" = 5' VERTICAL



POND DESIGN SUMMARY

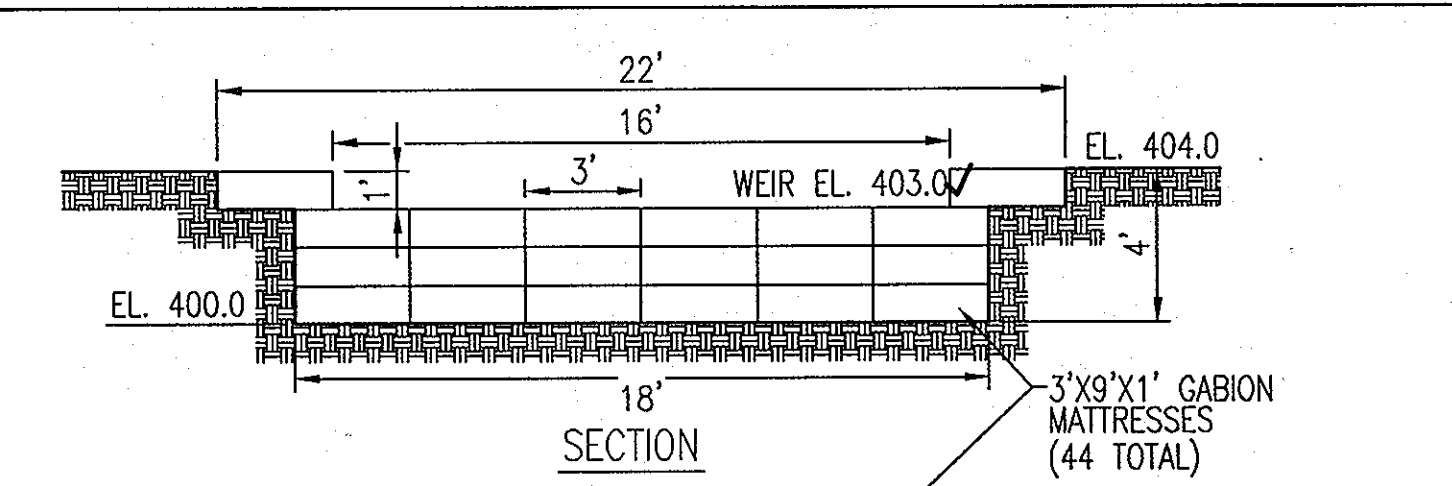
EXTENDED DETENTION SHALLOW WETLAND (W-2) HAZARD CLASS "A"
 DRAINAGE AREA: 22.47 AC
 IMPERVIOUS AREA: 6.39 AC

DESIGN STORM	WSEL (FT)	STORAGE (AC-FT)	Qin (CFS)	Qout (CFS)
INVERT	396.0			
WQv	400.00	0-431 0.517	n/a	n/a
Cpv	401.53	0-857 1.349	18.63	0.36
2-YEAR	402.03	1-187 1.677	26.86	0.87
10-YEAR	403.94	2-722 3.233	65.16	2.32
100-YEAR	404.78	3-546 4.044	112.72	34.13

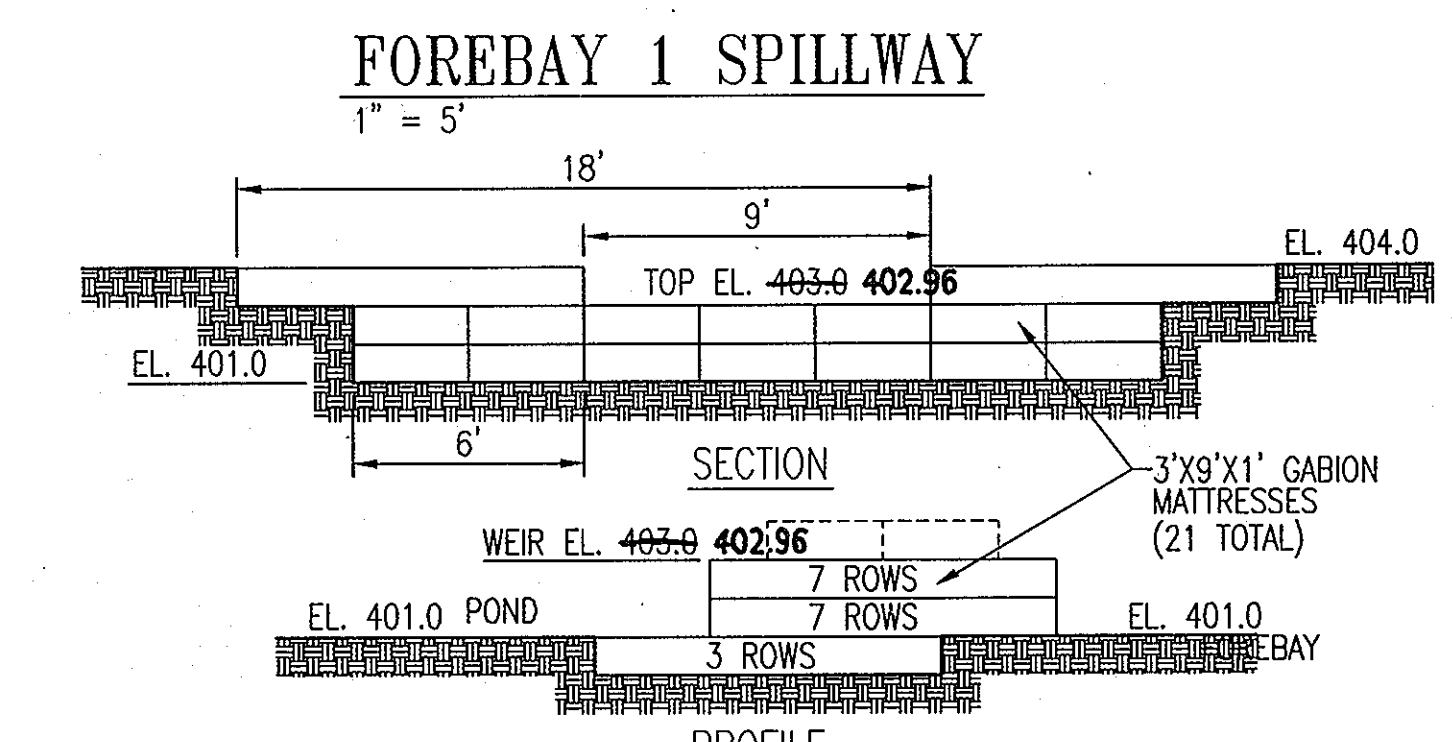
OPERATION AND MAINTENANCE SCHEDULE

- INSPECTION SCHEDULE**
- ANNUALLY: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS TO INSPECT ANNUALLY AND GENERATE ANNUAL INSPECTION REPORT
 - SIXTY HOURS AFTER THE END OF EACH SIGNIFICANT RAINFALL EVENT (>2.6 INCHES OF RAINFALL). CHECK FOR PONDING WATER, SEDIMENT DEPOSITION IN THE FOREBAYS, EROSION DAMAGE, TRASH AND CLOGGING OF THE SPILLWAY ORIFICES.
- ROUTINE MAINTENANCE**
- MOW GRASS ON EMBANKMENT TWICE PER YEAR OR WHEN GRASS HEIGHT EXCEEDS 18 INCHES.
 - ANNUALLY REMOVE ANY WOODY VEGETATION FROM EMBANKMENT WITHIN 15 FEET OF THE TOE OF THE EMBANKMENT AND WITHIN 25 FEET OF THE PRINCIPAL SPILLWAY.
- MAINTENANCE REQUIREMENTS**
- REMOVAL OF SILT WHEN ACCUMULATION EXCEEDS FOUR (4) INCHES IN FOREBAY.
 - REMOVAL OF ACCUMULATED PAPER, TRASH AND DEBRIS AS NECESSARY.
 - VEGETATION GROWING ON THE EMBANKMENT TOP AND FACES IS NOT ALLOWED TO EXCEED 18 INCHES IN HEIGHT AT ANY TIME.
 - ANNUAL INSPECTION AND REPAIR OF THE STRUCTURE.
 - CORRECTIVE MAINTENANCE IS REQUIRED ANY TIME THE EXTENDED DETENTION BASIN OR FOREBAYS DO NOT DRAIN WITHIN 60 HOURS.
 - IF MINIMUM COVERAGE OF 50% IS NOT ACHIEVED IN THE PLANTED WETLAND ZONES AFTER THE SECOND GROWING SEASON, A REINFORCEMENT PLANTING WILL BE REQUIRED.

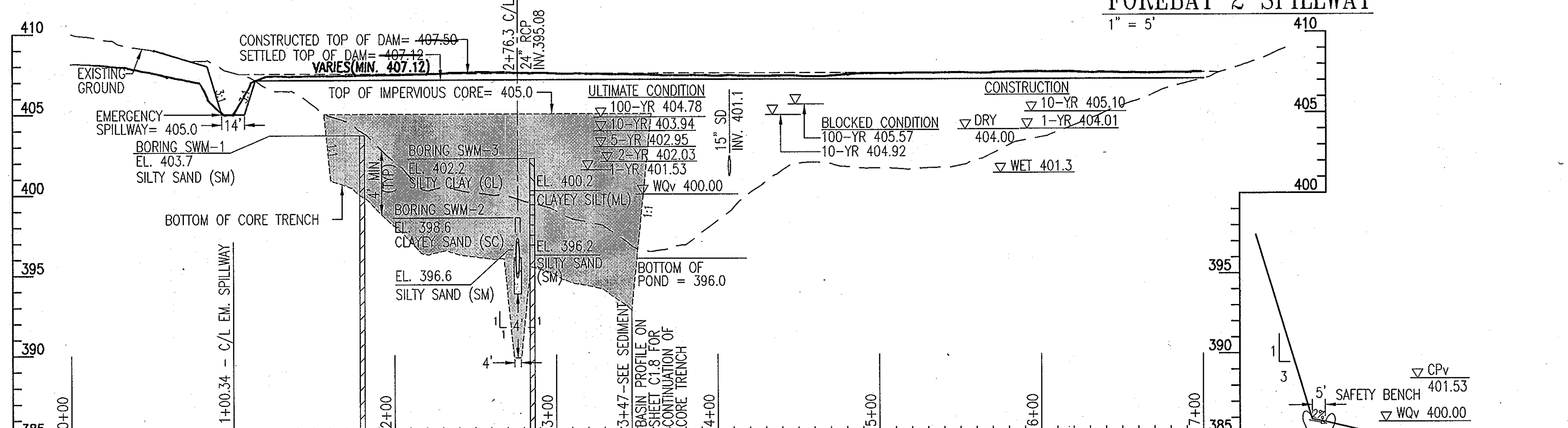
THE DAM INSPECTION CHECKLIST CAN BE FOUND IN APPENDIX A OF USDA NRCS - MARYLAND- CONSERVATION PRACTICE STANDARD - POND - CODE 378 (MD-378) MAY BE USED TO DOCUMENT THESE REQUIREMENTS.



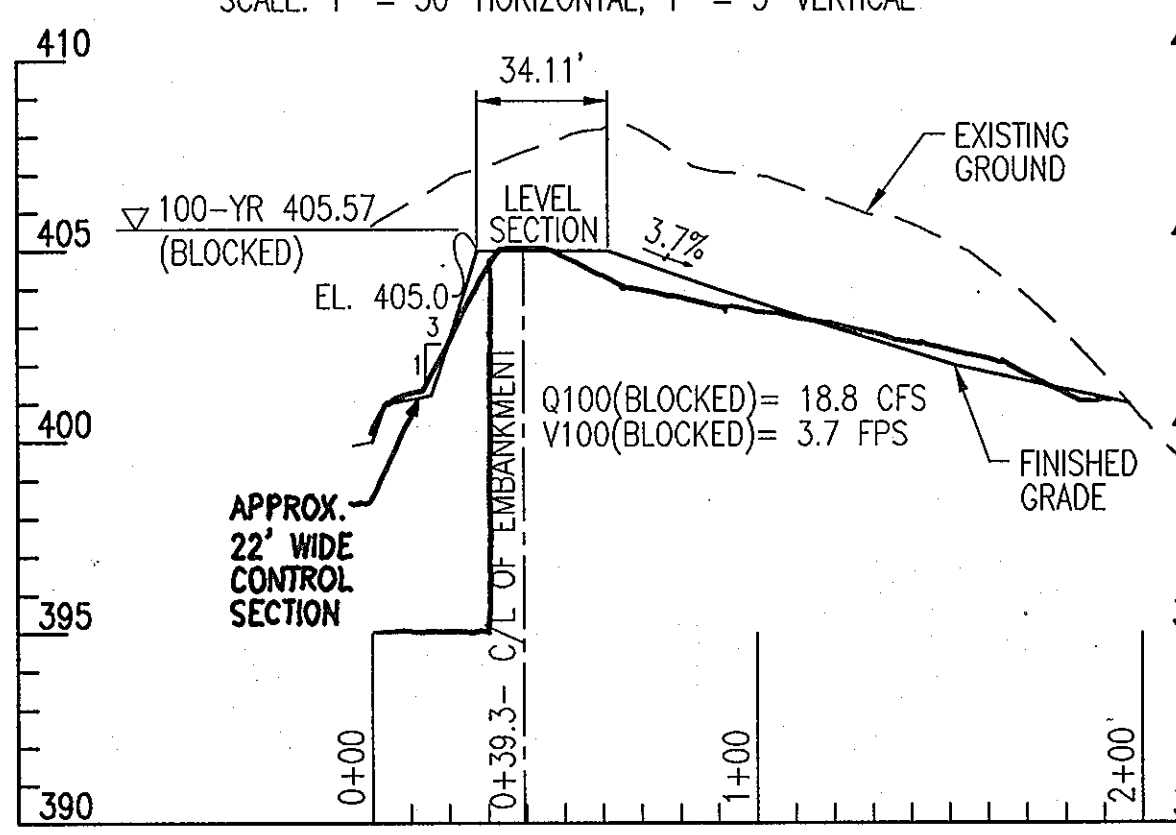
FOREBAY 1 SPILLWAY
 1" = 5'



FOREBAY 2 SPILLWAY
 1" = 5'



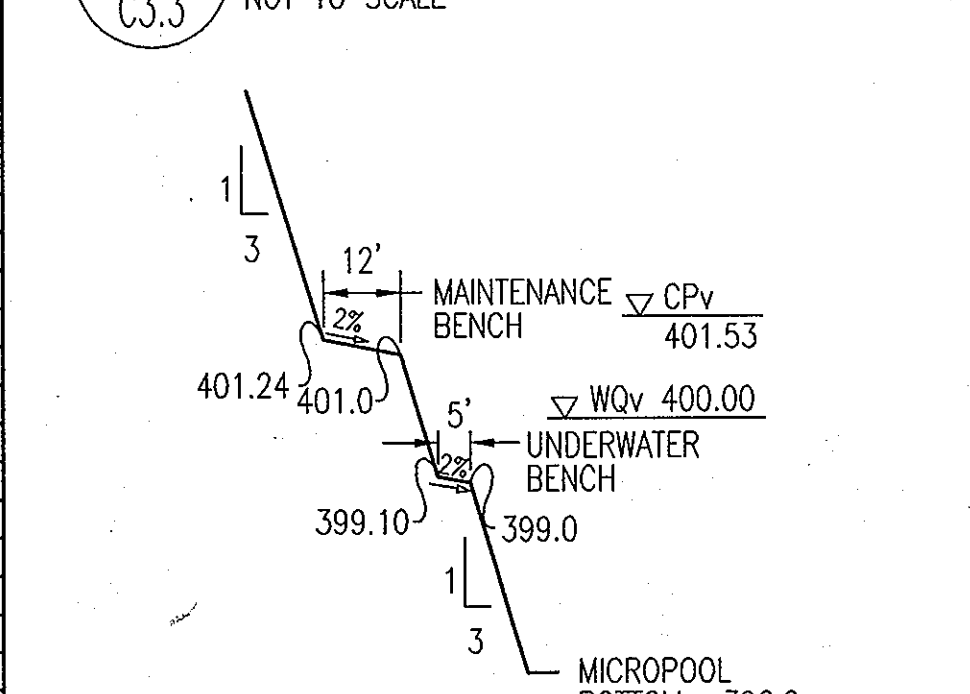
PROFILE OF POND CENTERLINE
 SCALE: 1" = 50' HORIZONTAL, 1" = 5' VERTICAL



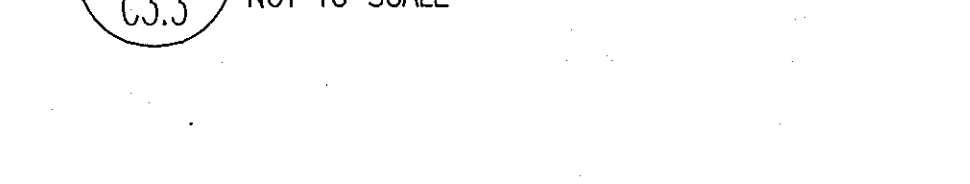
PROFILE OF EMERGENCY SPILLWAY
 SCALE: 1" = 50' HORIZONTAL, 1" = 5' VERTICAL



2 POND BENCH SECTION
 C3.3 NOT TO SCALE



1 POND BENCH SECTION
 C3.3 NOT TO SCALE



DEVELOPER'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.

Ronald G. Lepson
 SIGNATURE OF DEVELOPER
 (PRINT NAME BELOW SIGNATURE)

2/22/10
 DATE

ENGINEER'S CERTIFICATION

I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN 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.

Anthony U. Olson
 SIGNATURE OF ENGINEER
 (PRINT NAME BELOW SIGNATURE)

2/19/10
 DATE

REVISIONS

NO.	DATE	DESCRIPTION

HOWARD COUNTY
 DEPARTMENT OF RECREATION AND PARKS
 7120 OAKLAND MILLS ROAD
 COLUMBIA, MD 21046

DEPARTMENT OF PUBLIC WORKS
 9250 BENDIX ROAD
 ELLICOTT CITY, MD 21043

WR&A
 WHITMAN, REQUARDT & ASSOCIATES, LLP
 801 South Caroline Street, Baltimore, Maryland 21231
 Phone: 410-235-3450 Fax: 410-243-6716

PROPERTY

TAX MAP 36, GRID 5, PARCEL 3,72

ZONING: RC-DEO

ELECTION DISTRICT 3/7

GRAPHIC SCALES

0 5' 10'

SCALE: 1" = 5'

0 15' 30' 60'

SCALE: 1" = 30'

0 25' 50' 100'

SCALE: 1" = 50'

SIGNATURE

Anthony U. Olson
 STATE OF MARYLAND
 REGISTERED PROFESSIONAL ENGINEER
 LICENSE NO. 19376
 EXPIRATION DATE: 09/22/2011

BLANDAIR REGIONAL PARK - PHASE 1

STORMWATER MANAGEMENT POND PLAN

Drawing No. **C3.3**

Scale: AS SHOWN

Date: 02/19/10 Sheet 26 of 51

Des: CYH Drawn: CYH Check: AUO

REVISIONS	

HOWARD COUNTY

DEPARTMENT OF RECREATION AND PARKS
7120 OAKLAND MILLS ROAD
COLUMBIA, MD 21046

DEPARTMENT OF PUBLIC WORKS
9250 BENDIX ROAD
ELLCOTT CITY, MD 21043



PROPERTY

TAX MAP 36, GRID 5, PARCEL 3.72

ZONING: RC-DEO

ELECTION DISTRICT 3/7

GRAPHIC SCALES

0 2' 4' 8'

SCALE: 1/4" = 1'-0"


0 1' 2' 3' 5'

SCALE: 3/8" = 1'-0"

0 6" 1' 2'

SCALE: 1" = 1'-0"

SIGNATURE



PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19376
EXPIRATION DATE: 09/22/2011

BLANDAIR REGIONAL PARK - PHASE 1

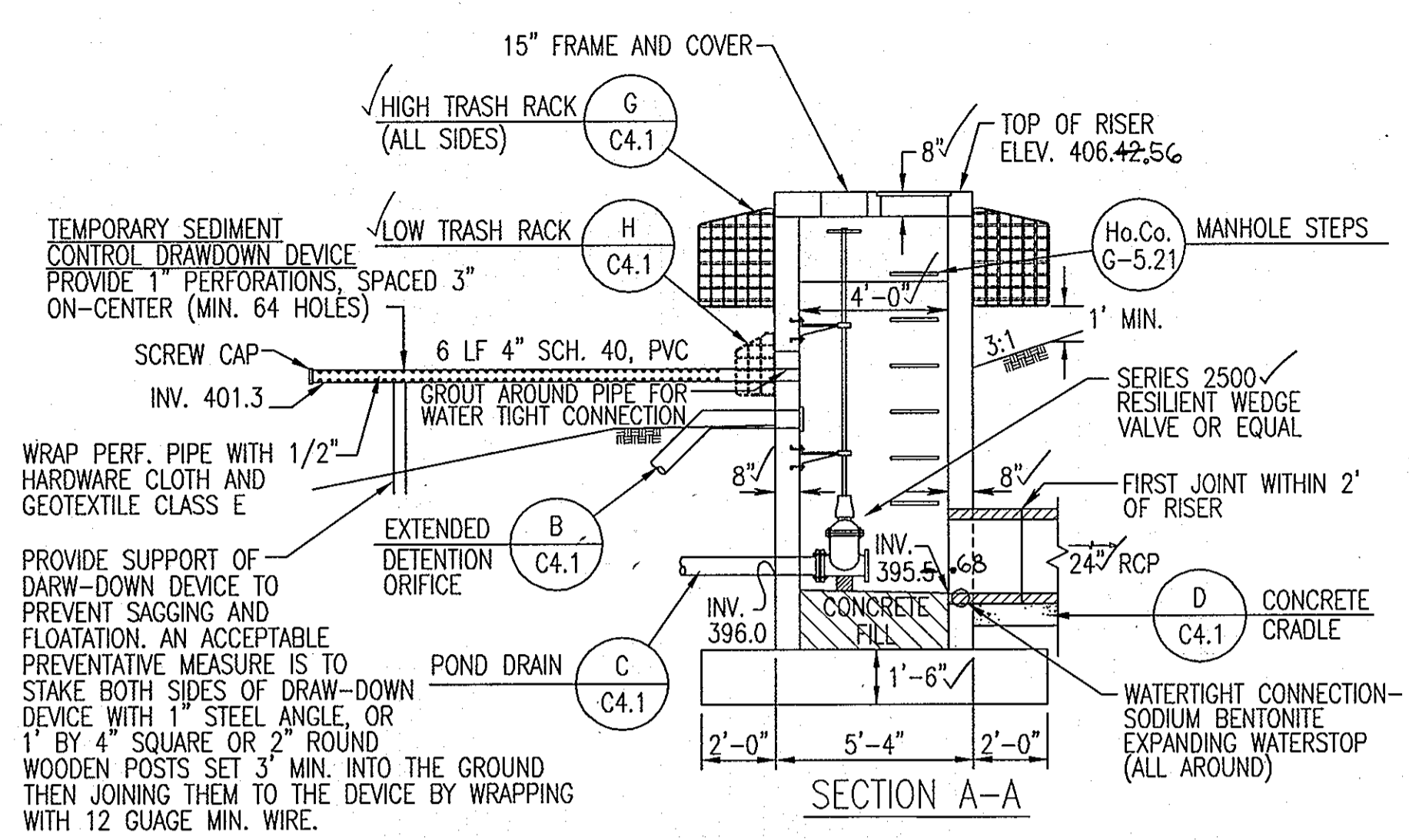
STORMWATER MANAGEMENT DETAILS

Drawing No. **C4.1**

Scale: AS SHOWN

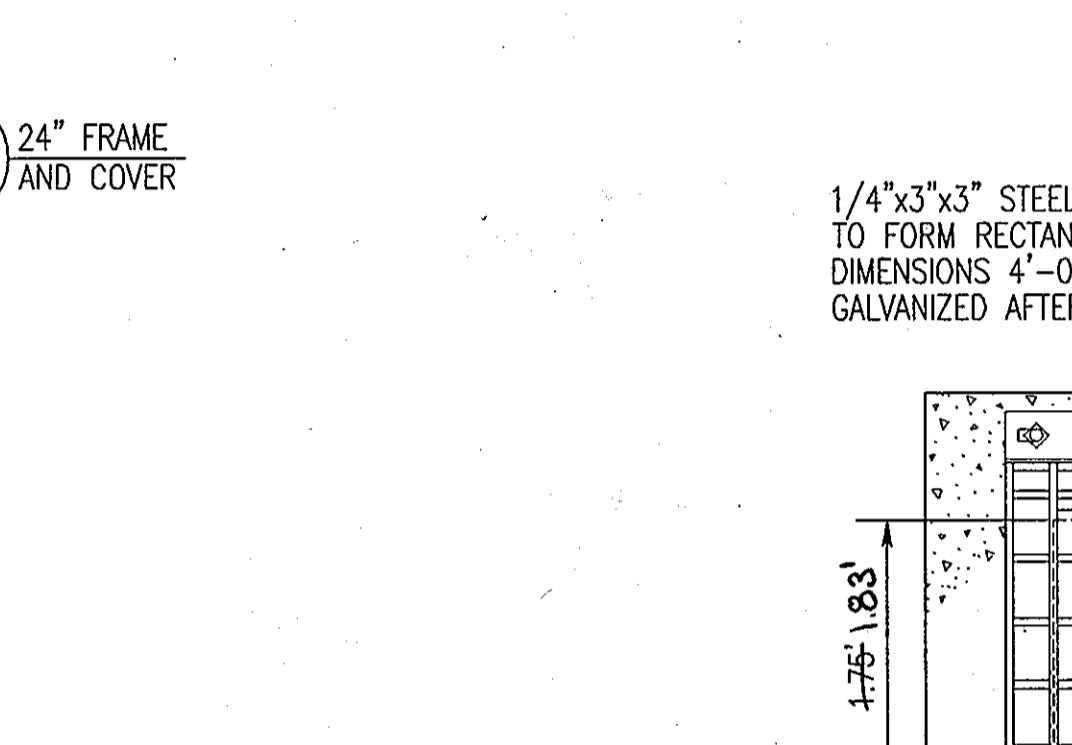
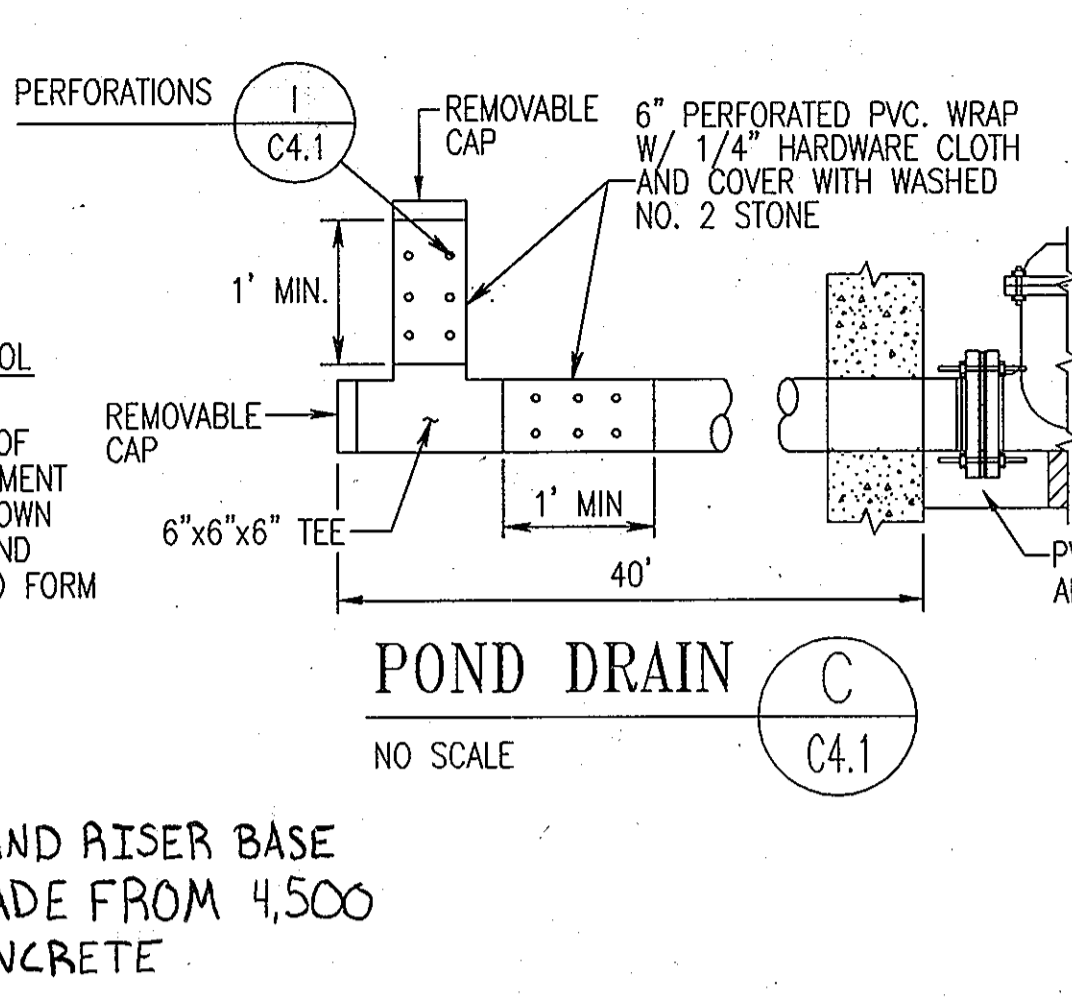
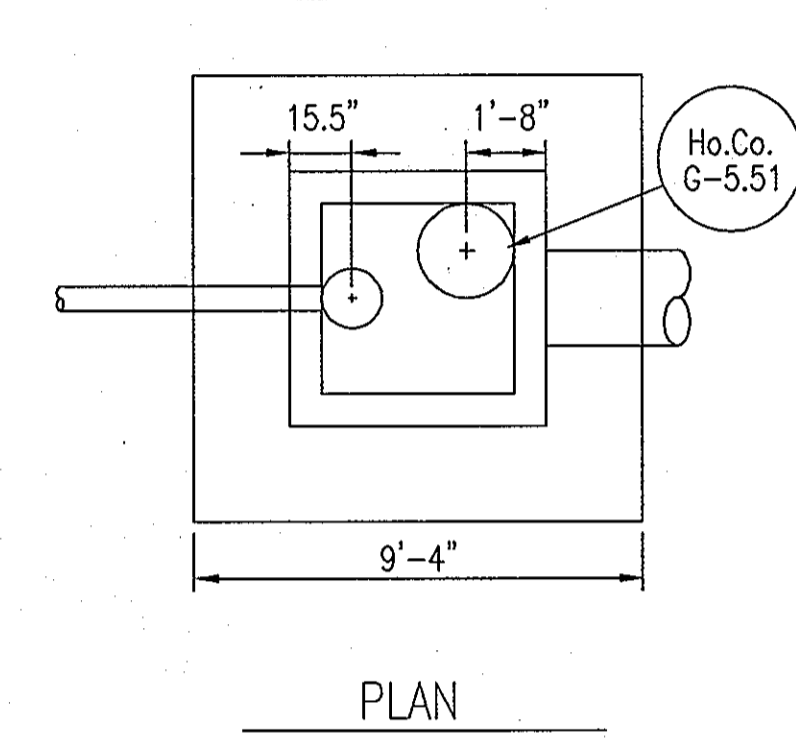
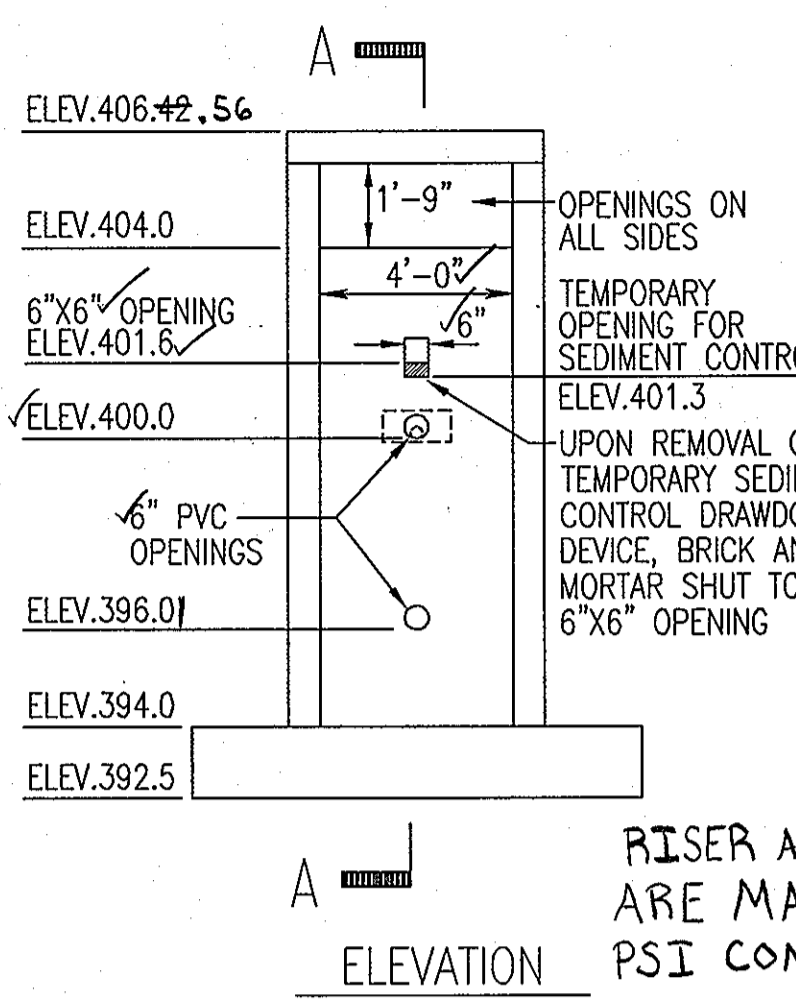
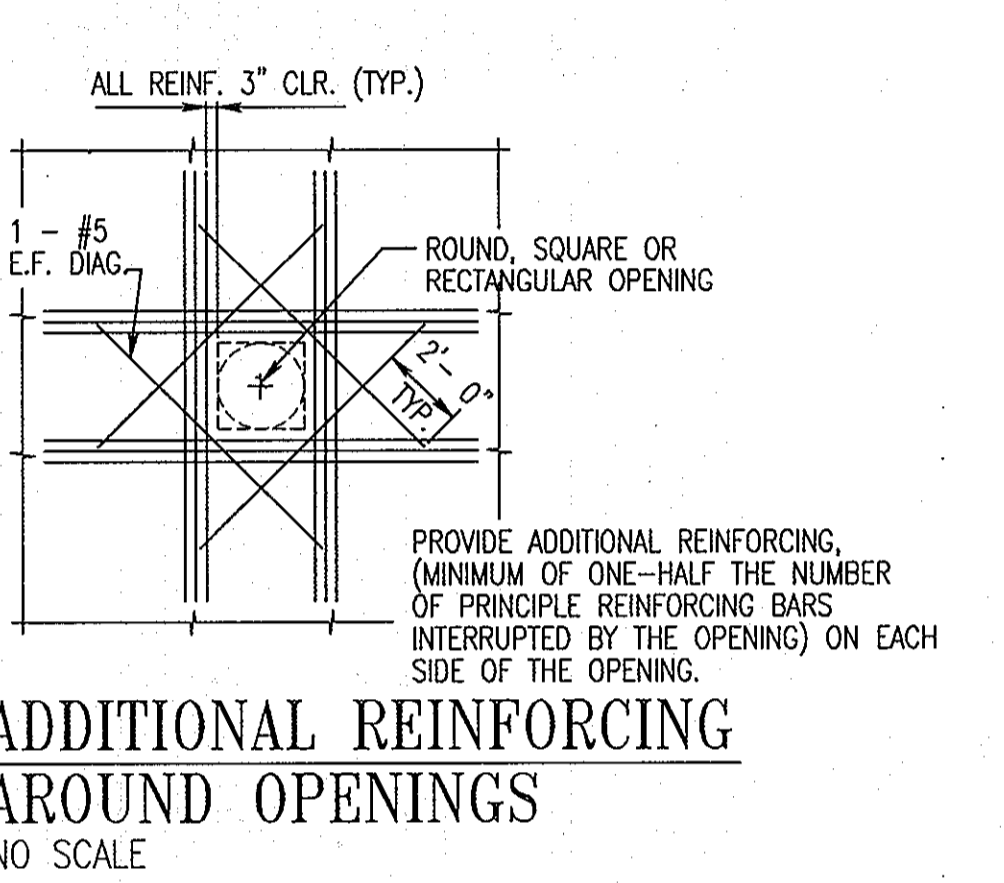
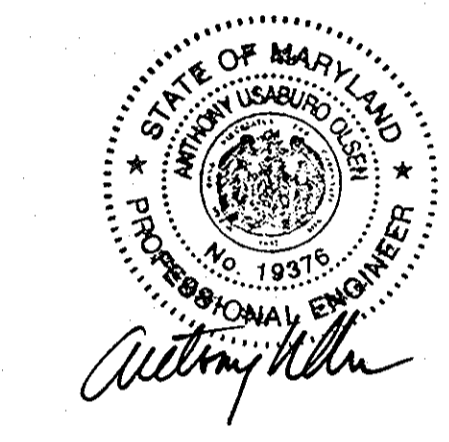
Date: 02/19/10 Sheet 27 of 51

Des: CYH Drawn: CYH Check: AUO



NOTE: CONTRACTOR SHALL KEEP EXTENDED DETENTION ORIFICE OPENING SHUT AND DRAIN VALVE CLOSED DURING CONSTRUCTION.

NOTE: FOR OPENINGS LESS THAN 12" DIA., NO ADDITIONAL REINFORCING IS REQUIRED PROVIDED NO REINFORCING IS INTERRUPTED BY THE OPENING

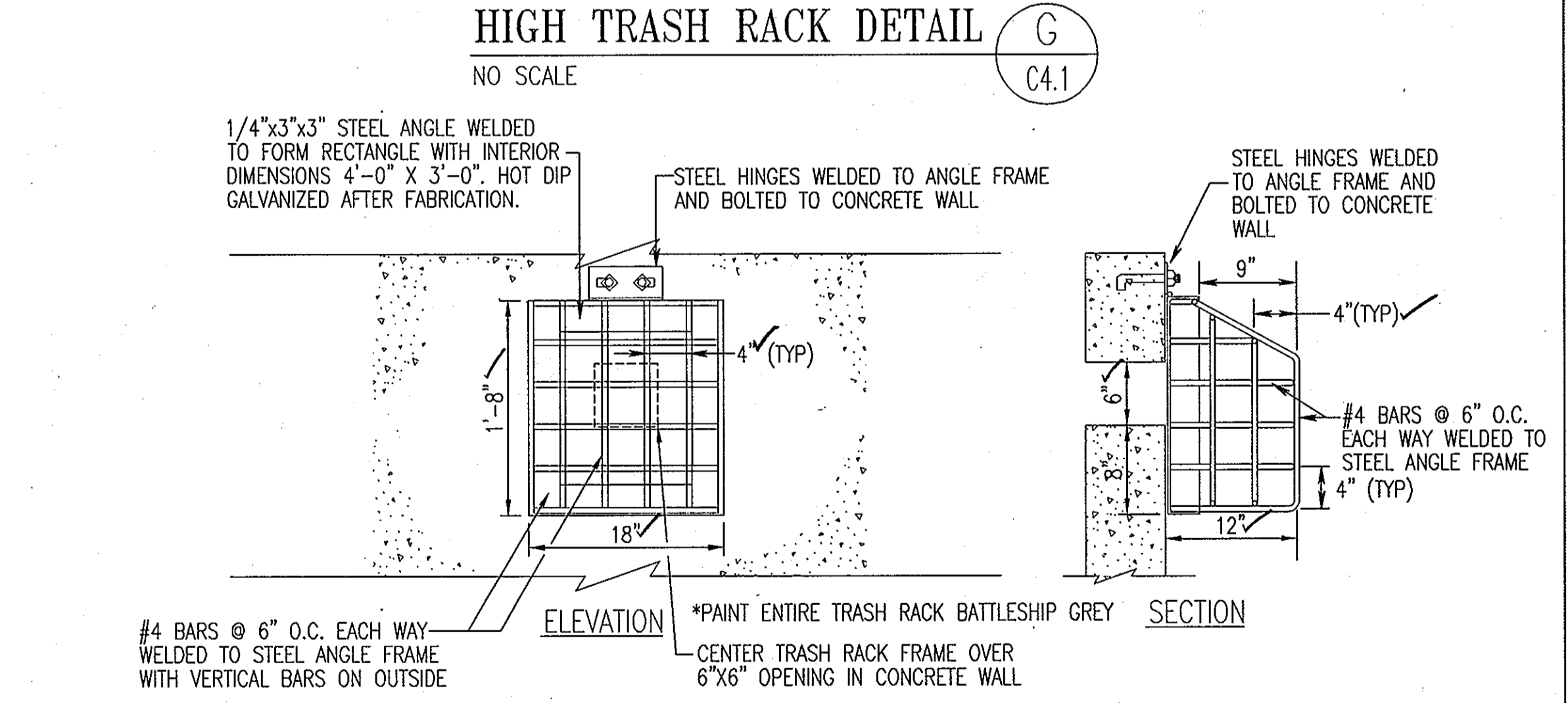
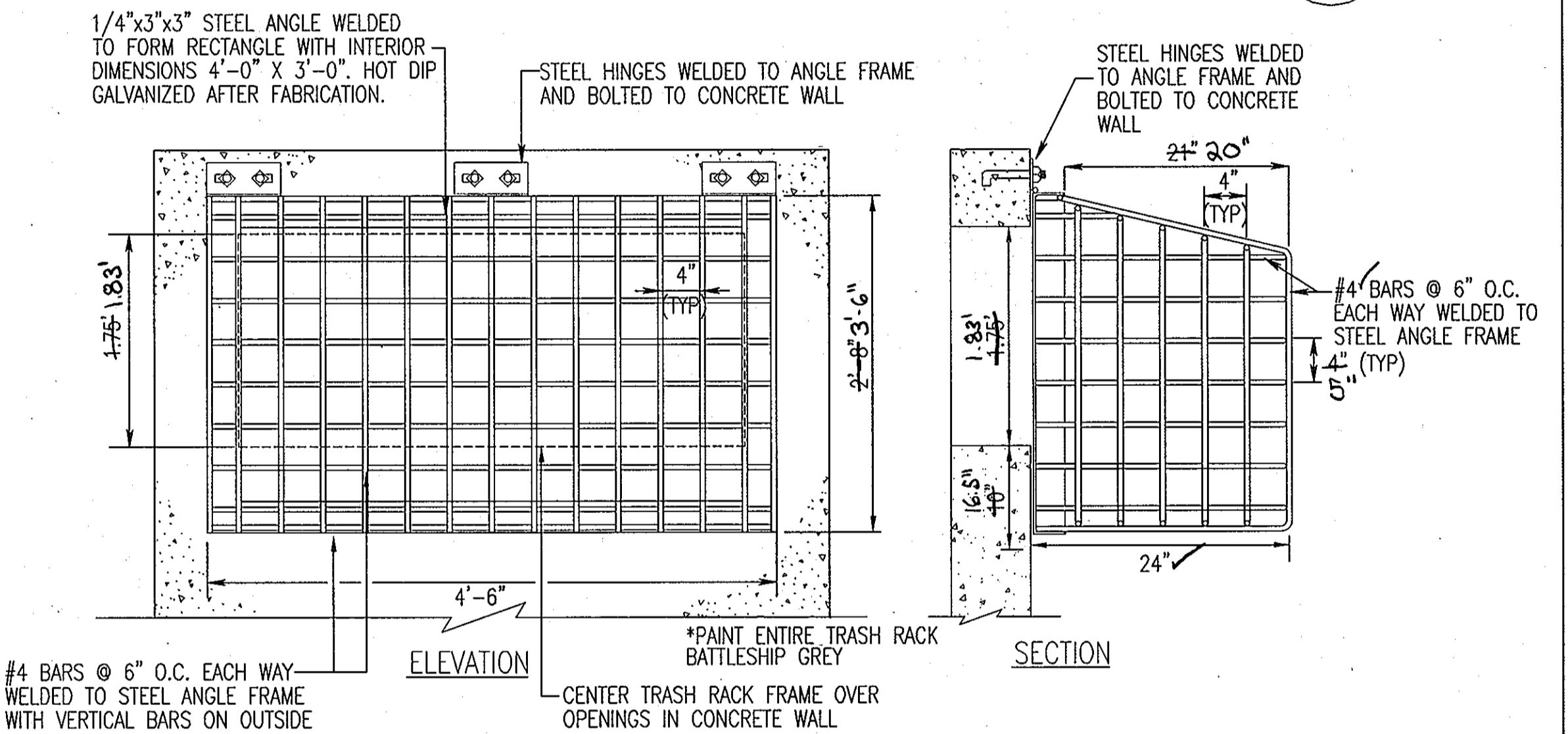
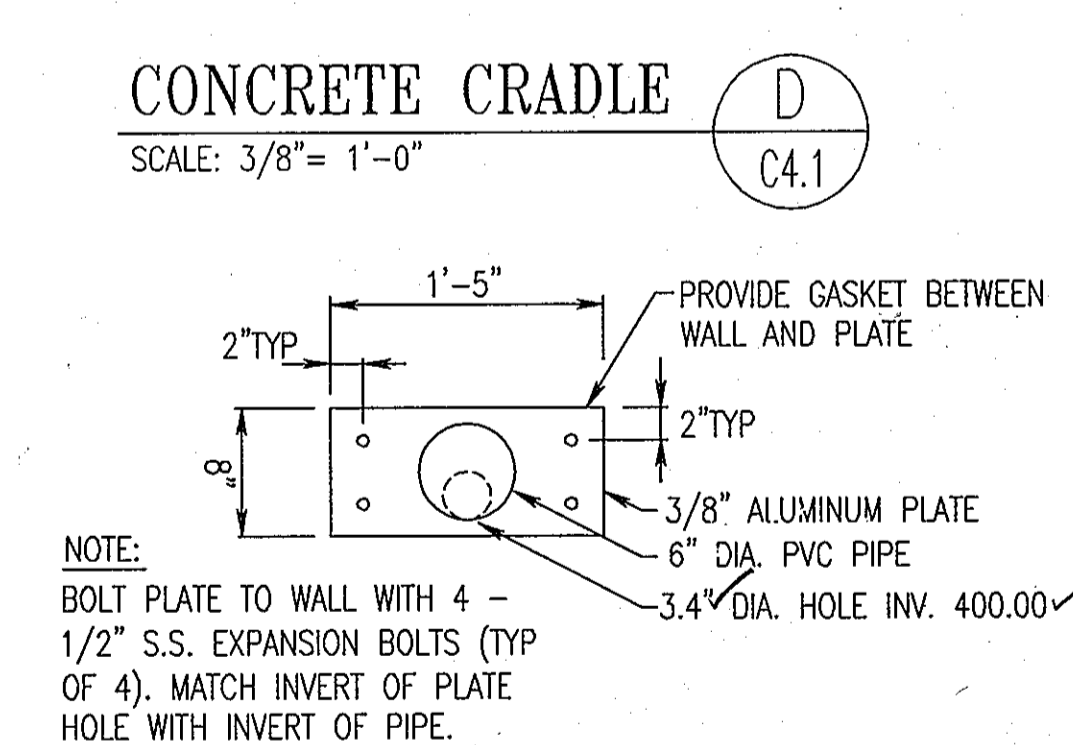
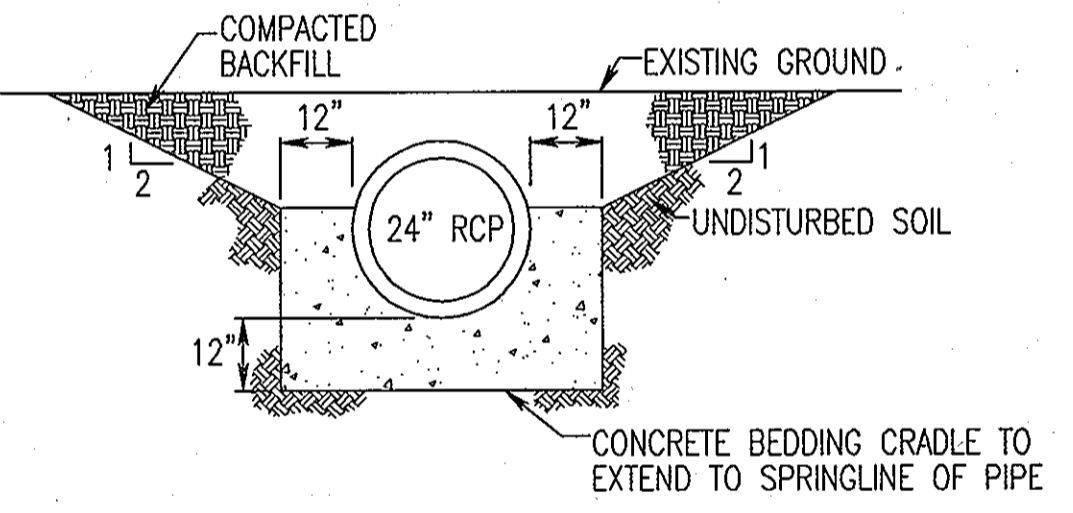
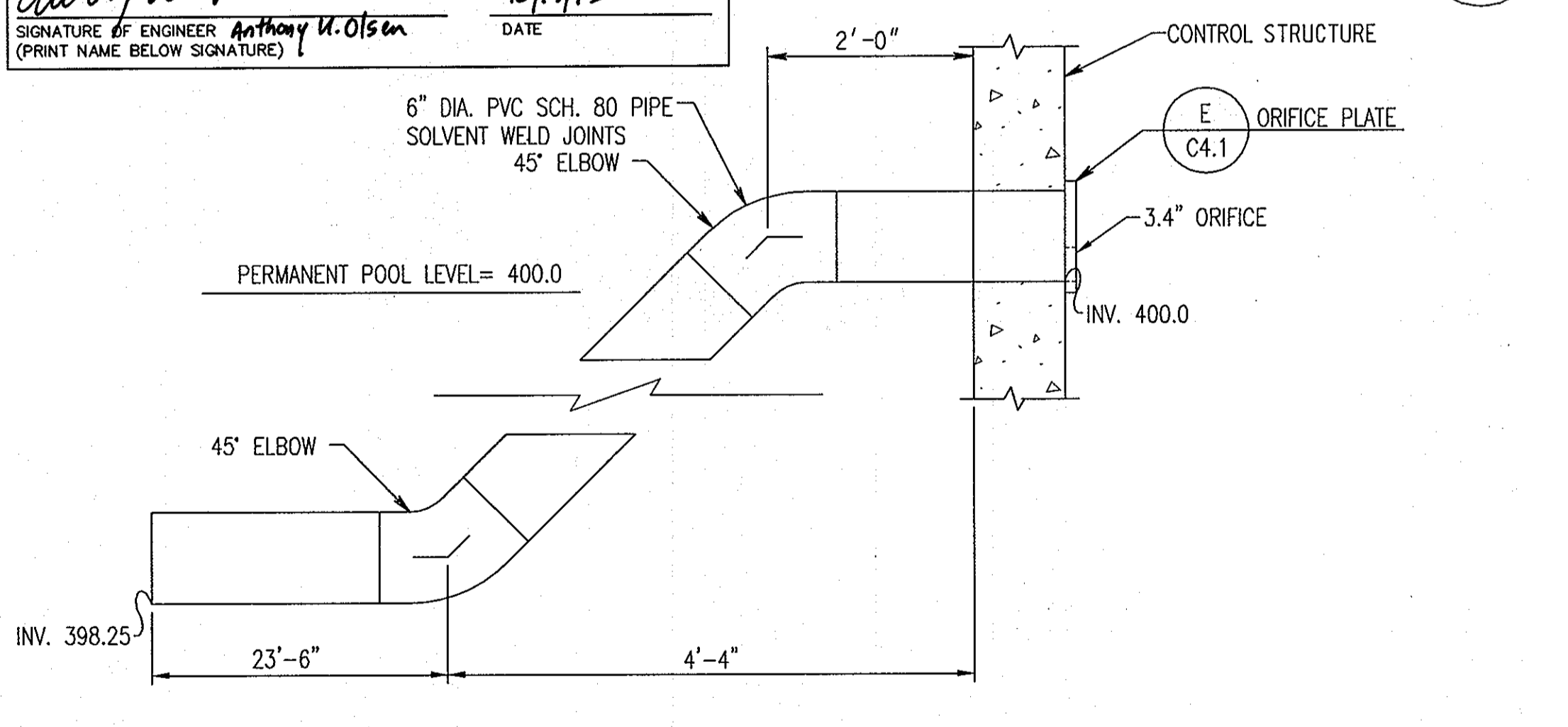


AS-BUILT CERTIFICATION
I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND MEETS THE APPROVED PLANS AND SPECIFICATIONS.

Signature: Anthony Ulls
Signature of Engineer: Anthony U. Olson
DATE: 12/17/13

NOTE: SEE SHEET C5.5 FOR POND CONSTRUCTION SPECIFICATIONS AND RISER STRUCTURAL SPECIFICATIONS

POND RISER SWM-1 DETAIL
SCALE: 1/4" = 1'-0"



ENGINEER'S CERTIFICATION
I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN 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.

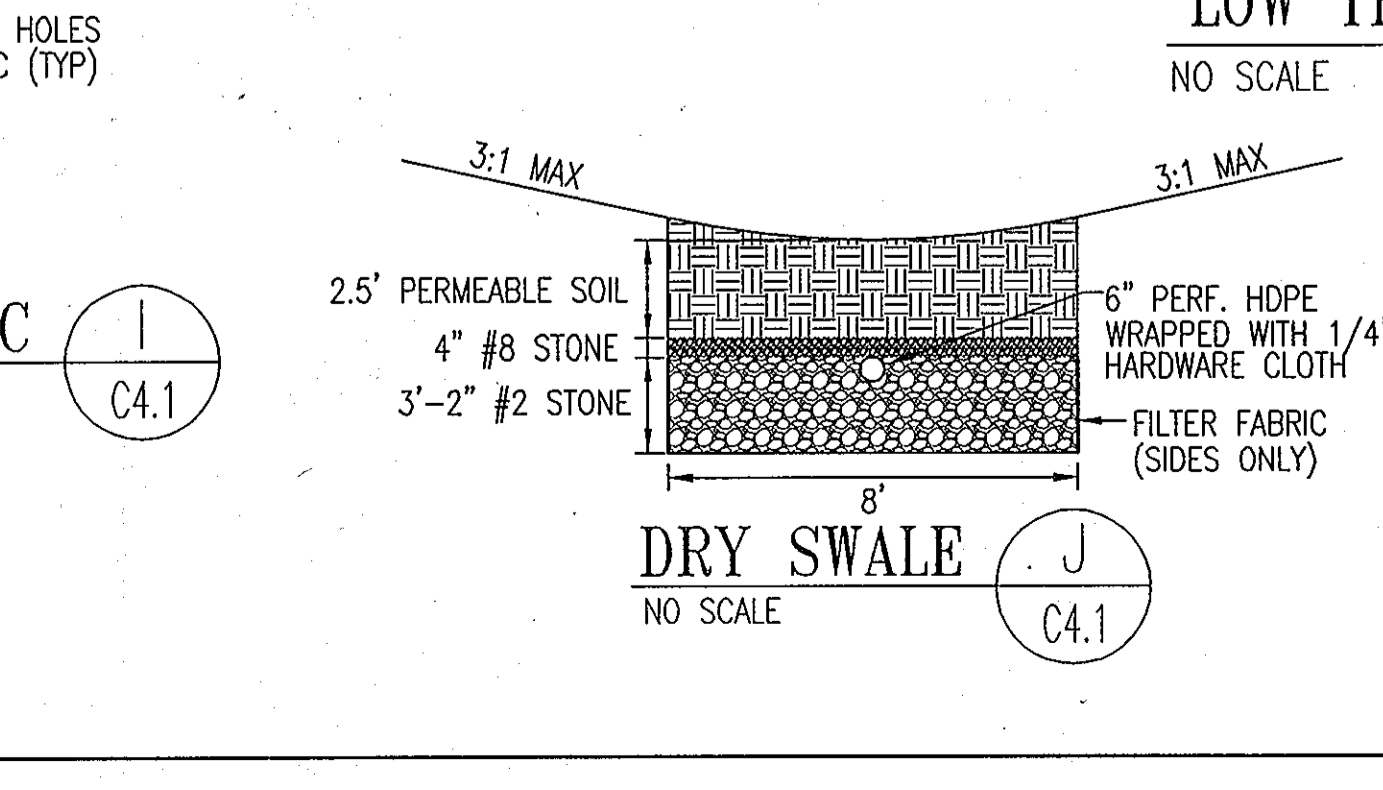
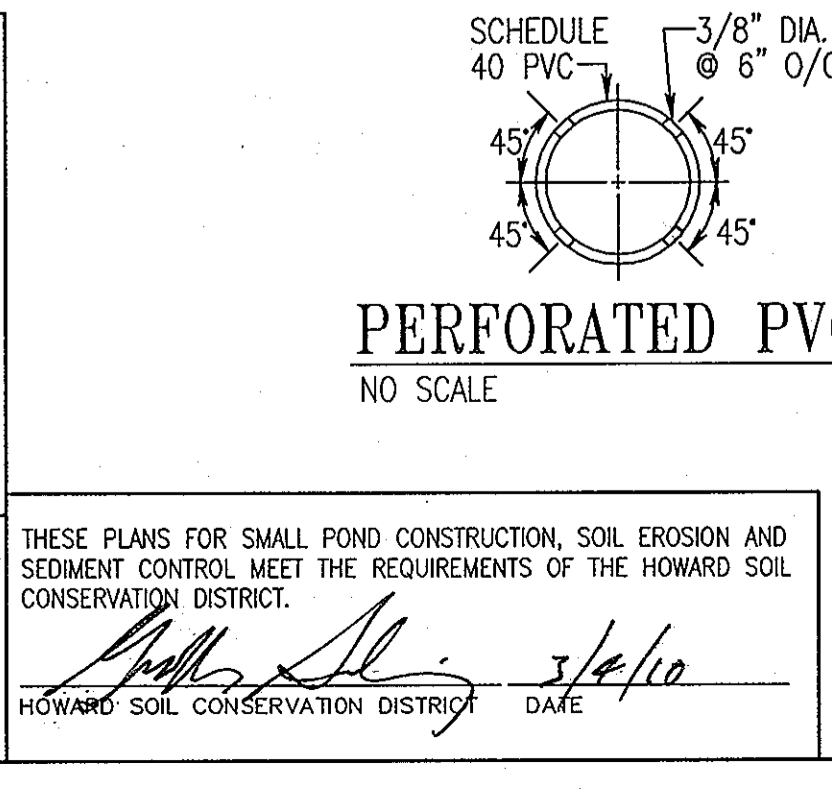
Signature: Anthony Ulls
Signature of Engineer: Anthony U. Olson
DATE: 2/19/10

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Chief, Development Engineering Division: [Signature]
Chief, Division of Land Development: [Signature]
Director: [Signature]

DEVELOPER'S CERTIFICATION
I HEREBY 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: Ronald G. Lepore
Signature of Developer: Ronald G. Lepore
DATE: 2/22/10

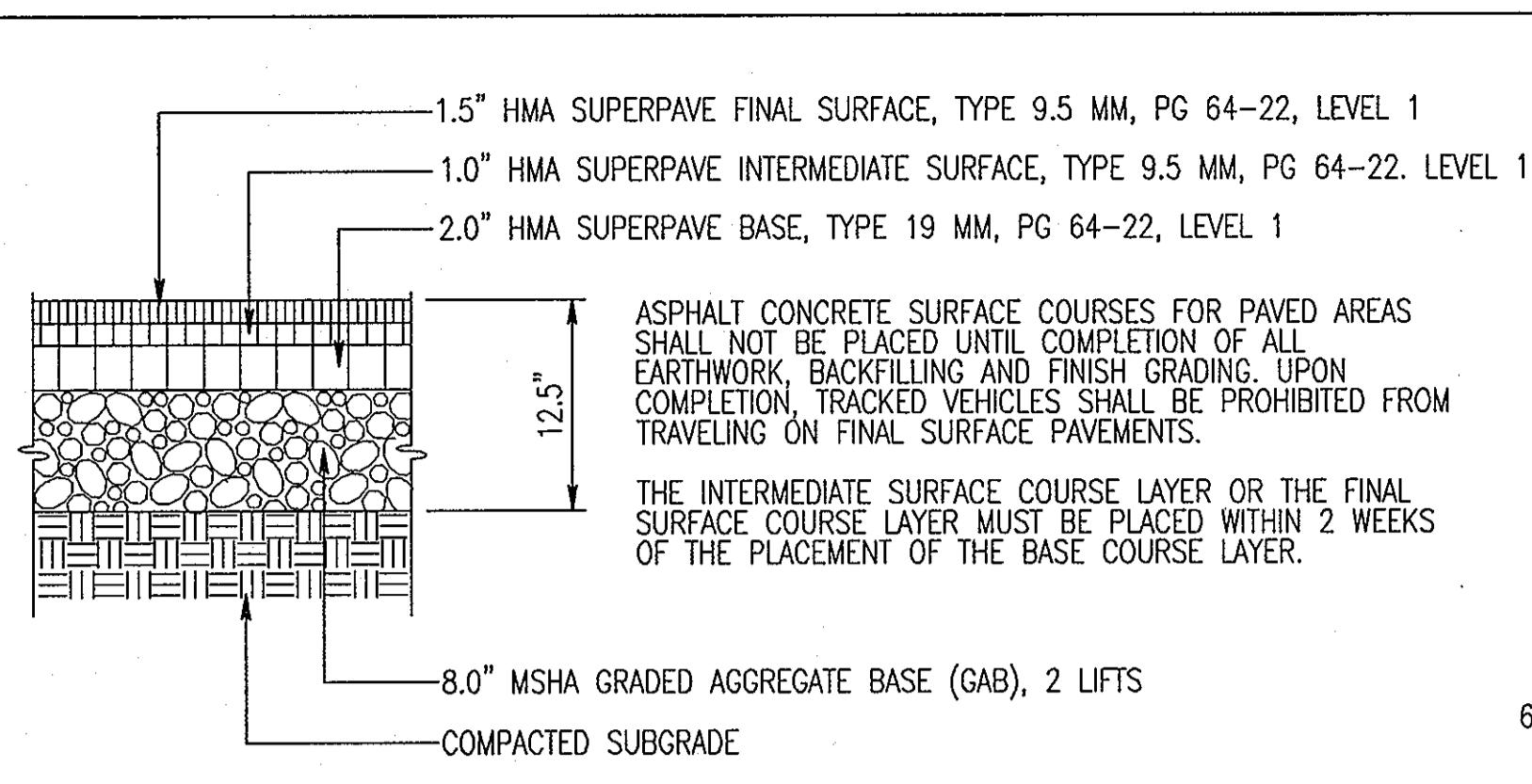
APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS
County Health Officer: [Signature]
Howard County Health Department: [Signature]



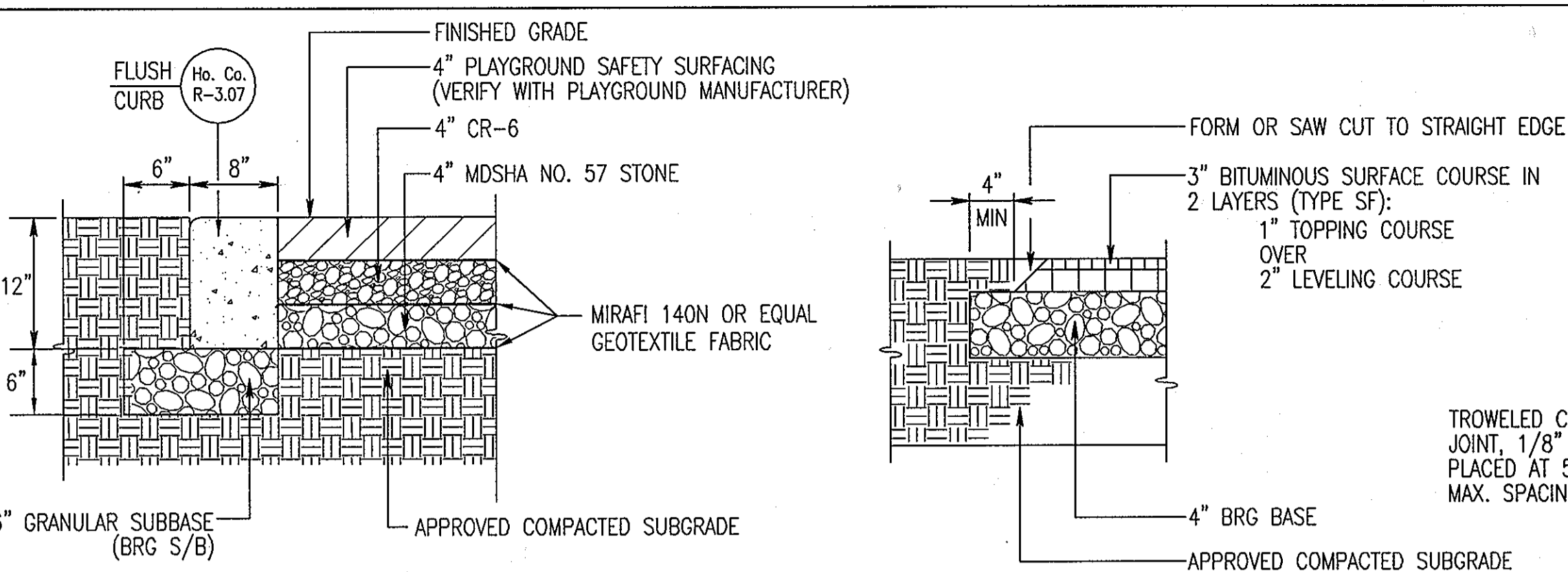
THE PERMEABLE SOIL SHALL BE A UNIFORM MIX, FREE OF STONES, STUMPS, ROOTS OR OTHER SIMILAR OBJECTS LARGER THAN TWO INCHES. NO OTHER MATERIALS OR SUBSTANCES SHALL BE MIXED OR DUMPED WITHIN THE DRY SWALE THAT MAY BE HARMFUL TO PLANT GROWTH, OR PROVE A HINDRANCE TO THE PLANTING OR MAINTENANCE OPERATIONS. THE PLANTING SOIL SHALL BE FREE OF BERMUDA GRASS, QUACKGRASS, JOHNSON GRASS, OR OTHER NOXIOUS WEEDS AS SPECIFIED UNDER COMAR 15.08.01.05.

PERMEABLE SOIL SPECIFICATIONS
SAND 35 - 60%
SILT 30 - 55%
CLAY 10 - 25%
NOTE: USDA SOIL TYPES LOAMY SAND, SANDY LOAM OR LOAM

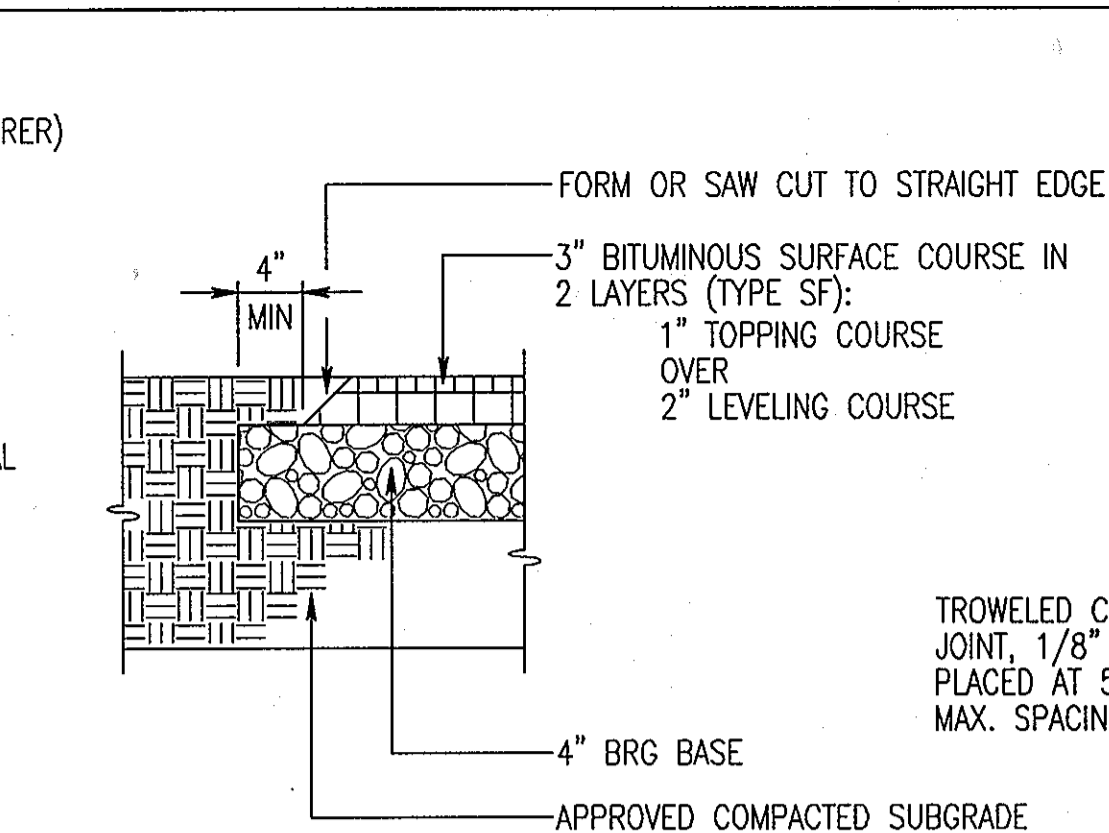
THE PLANTING SOIL SHALL BE TESTED AND SHALL MEET THE FOLLOWING CRITERIA:
PH RANGE 5.2 - 7.0
ORGANIC MATTER 1.5 - 4% (BY WEIGHT)
MAGNESIUM 35 LB./AC
PHOSPHORUS (PHOSPHATE - P₂O₅) 75 LB./AC
POTASSIUM (POTASH - K₂O) 85 LB./AC
SOLUBLE SALTS NOT TO EXCEED 500 PPM



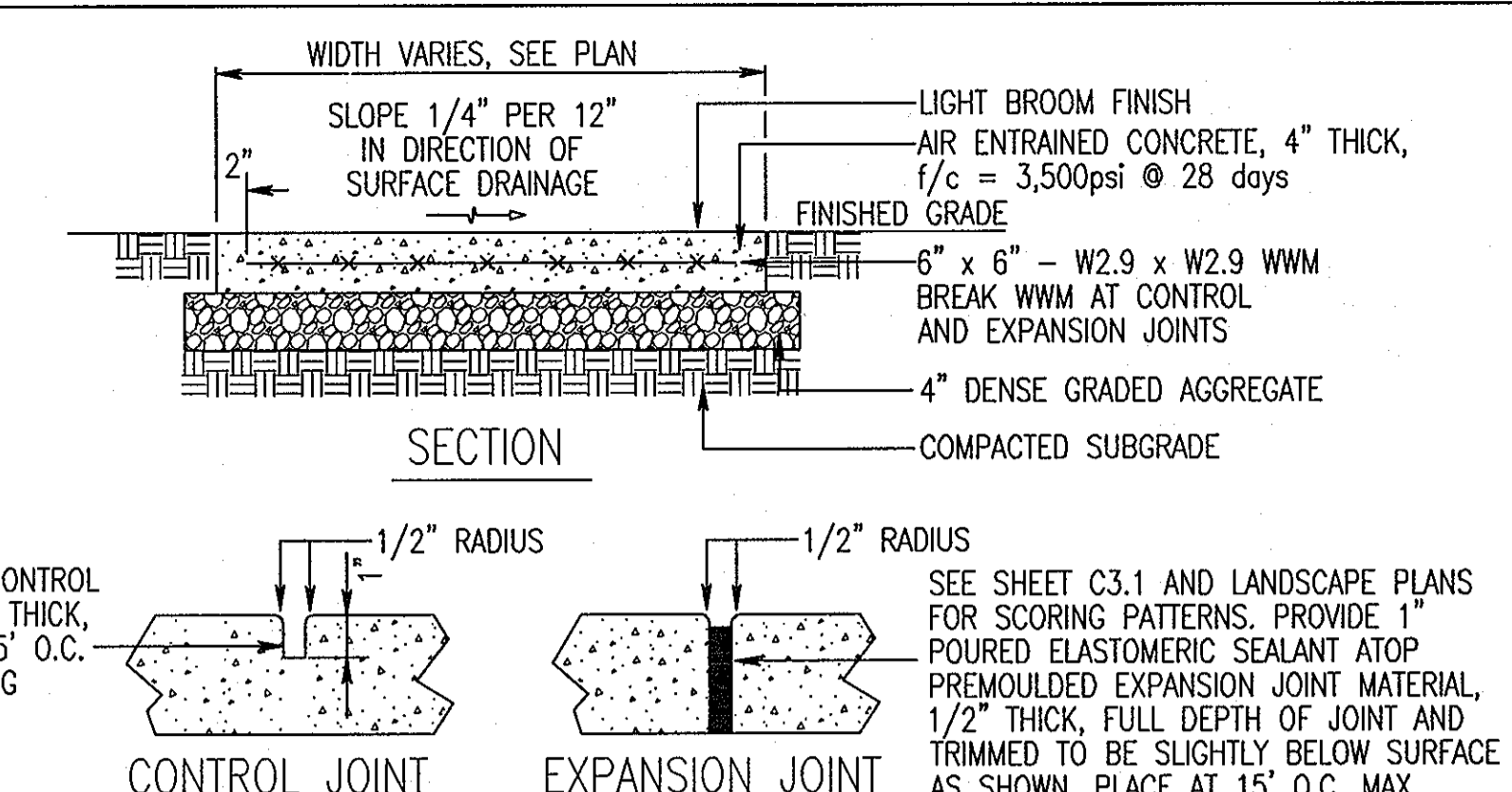
A BITUMINOUS CONCRETE PAVEMENT
C4.2 NOT TO SCALE



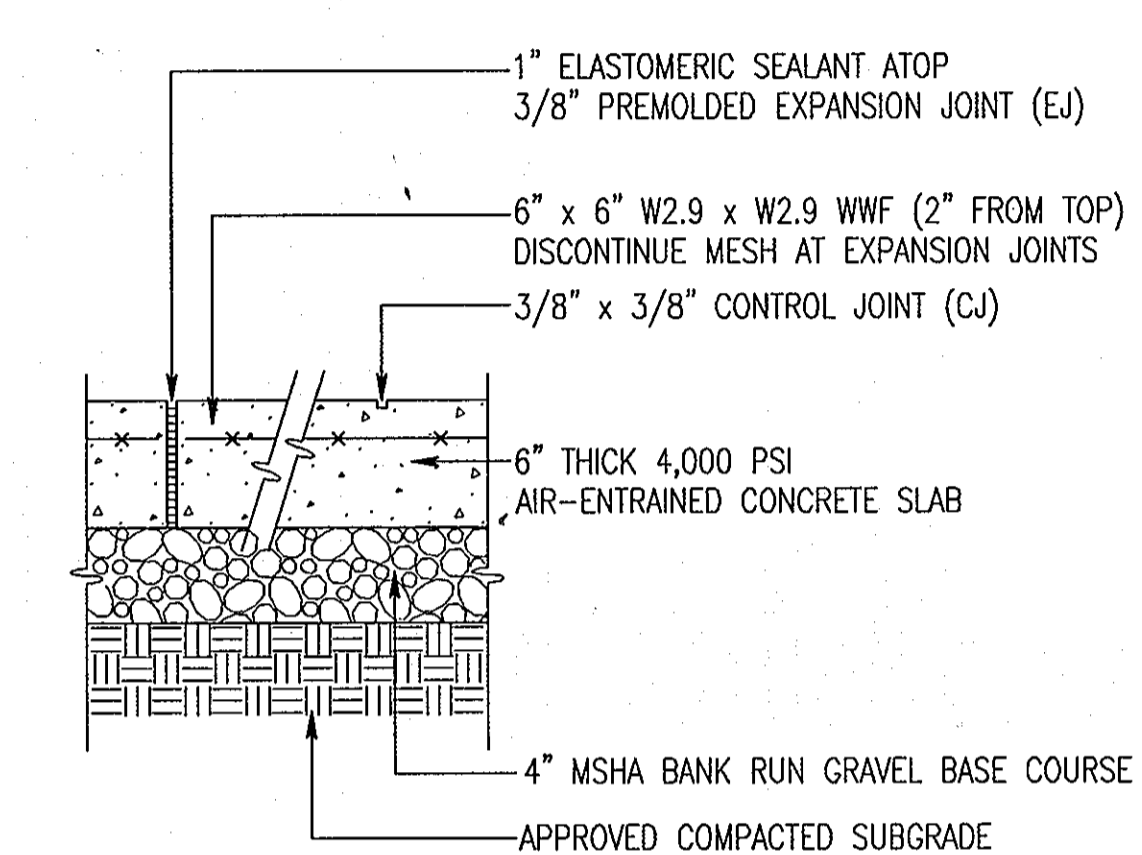
B PLAYGROUND SURFACE
C4.2 NOT TO SCALE



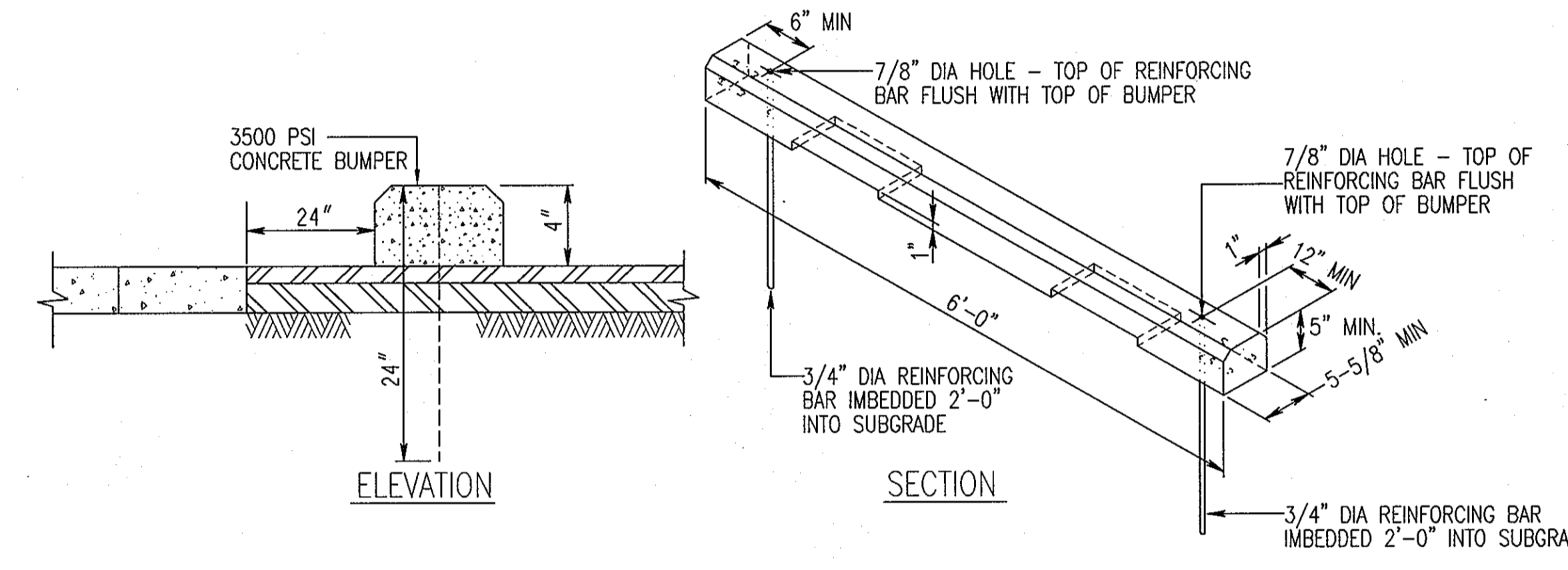
C BITUMINOUS SIDEWALK
C4.2 NOT TO SCALE



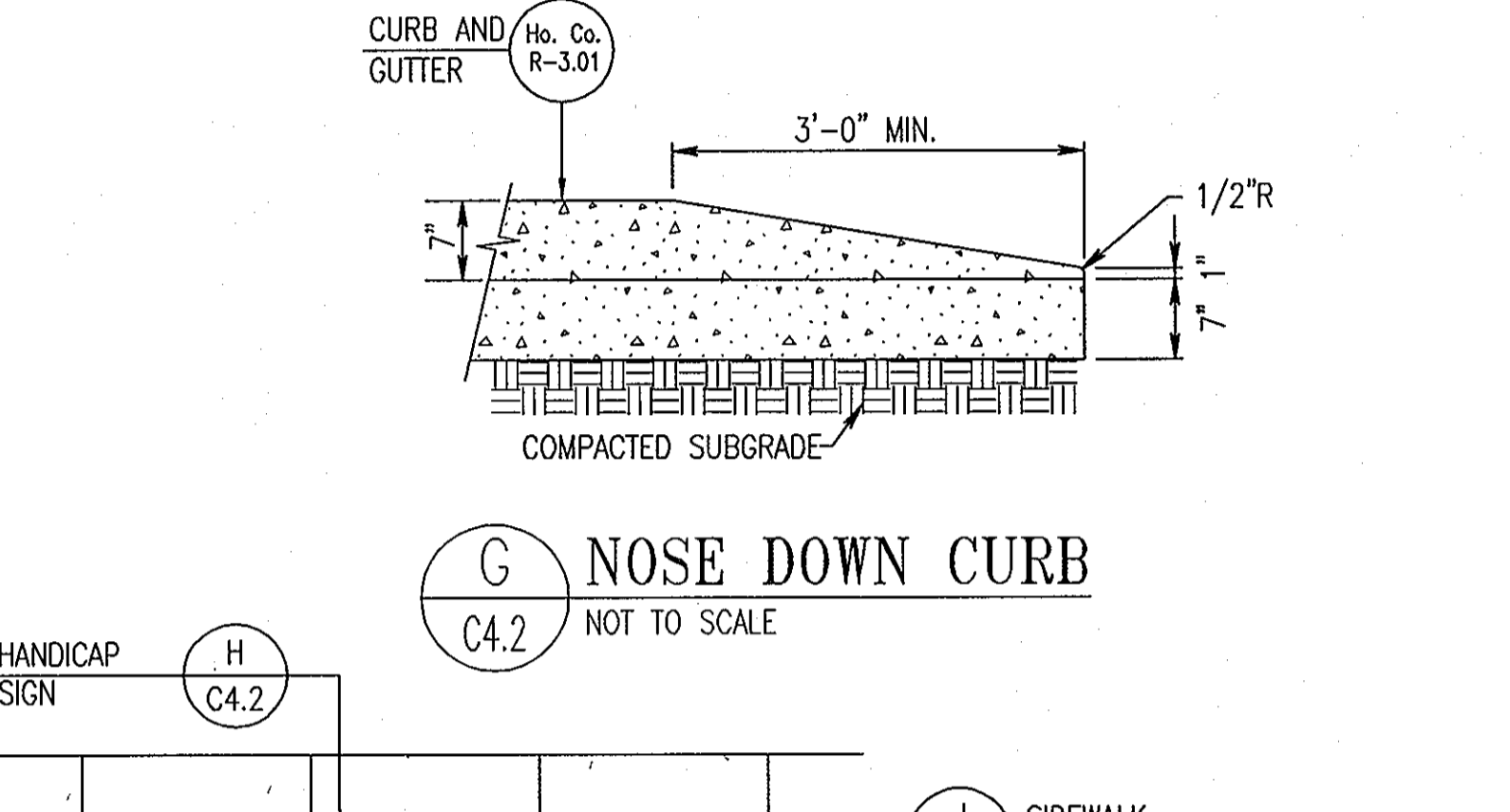
D CONCRETE SIDEWALK
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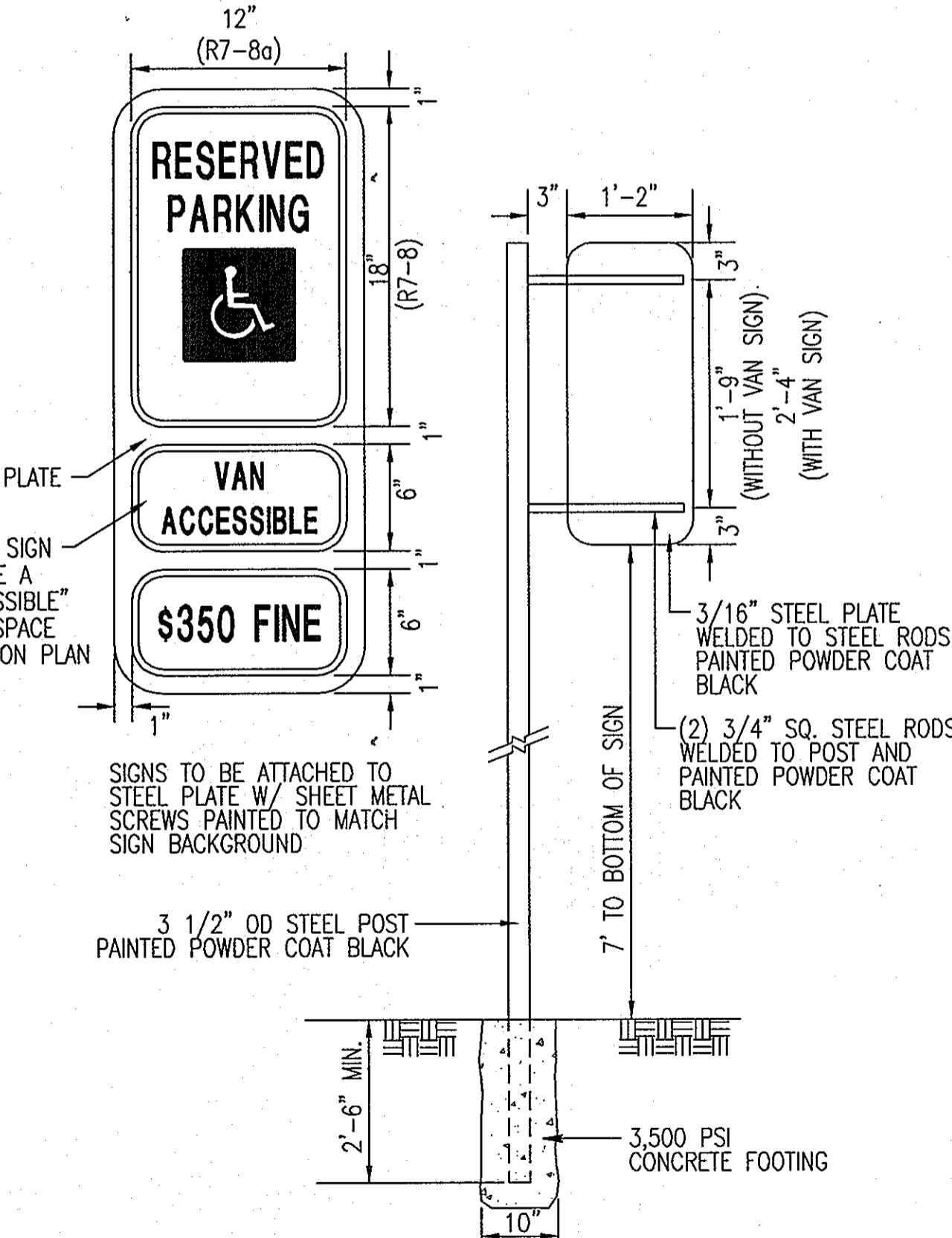
E HEAVY-DUTY CONCRETE PAVEMENT
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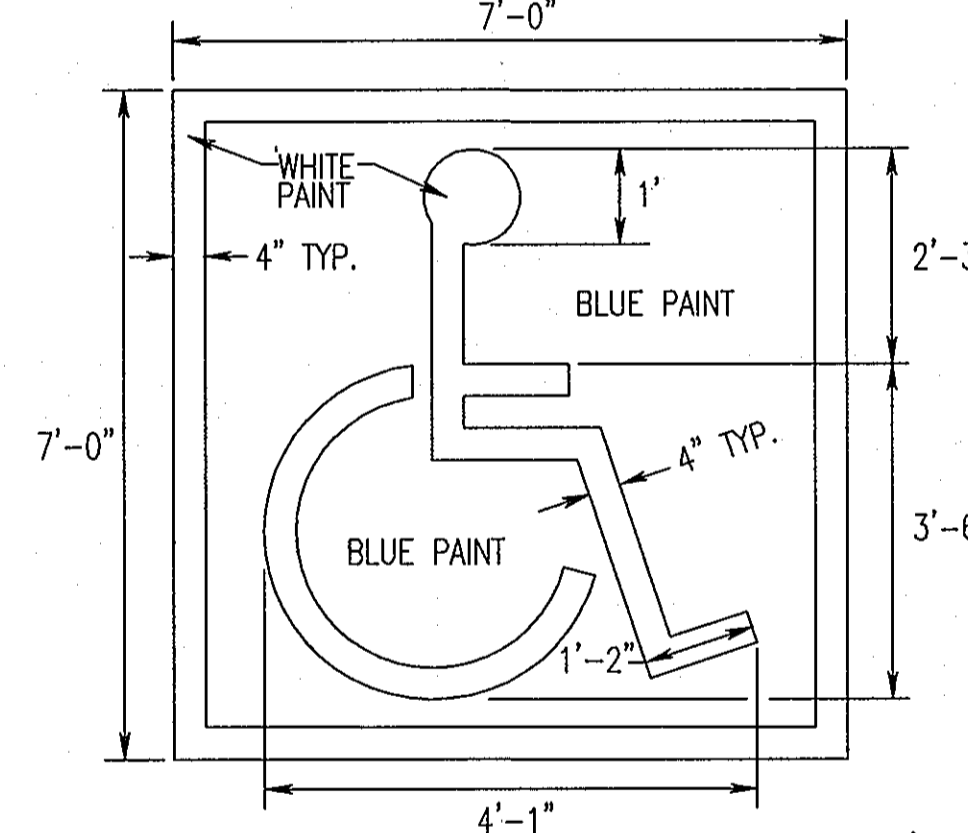
F PARKING BUMPER
C4.2 NOT TO SCALE



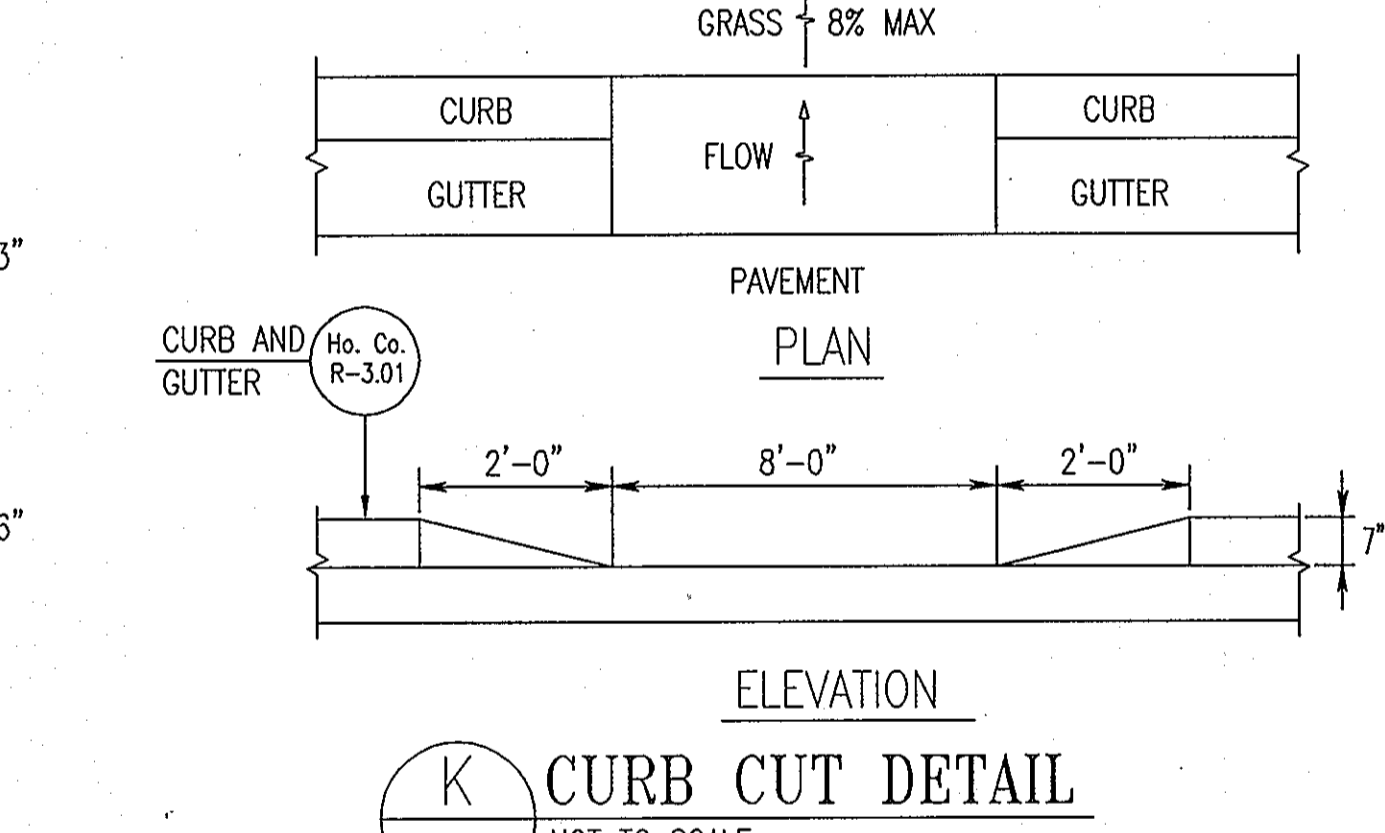
G NOSE DOWN CURB
C4.2 NOT TO SCALE



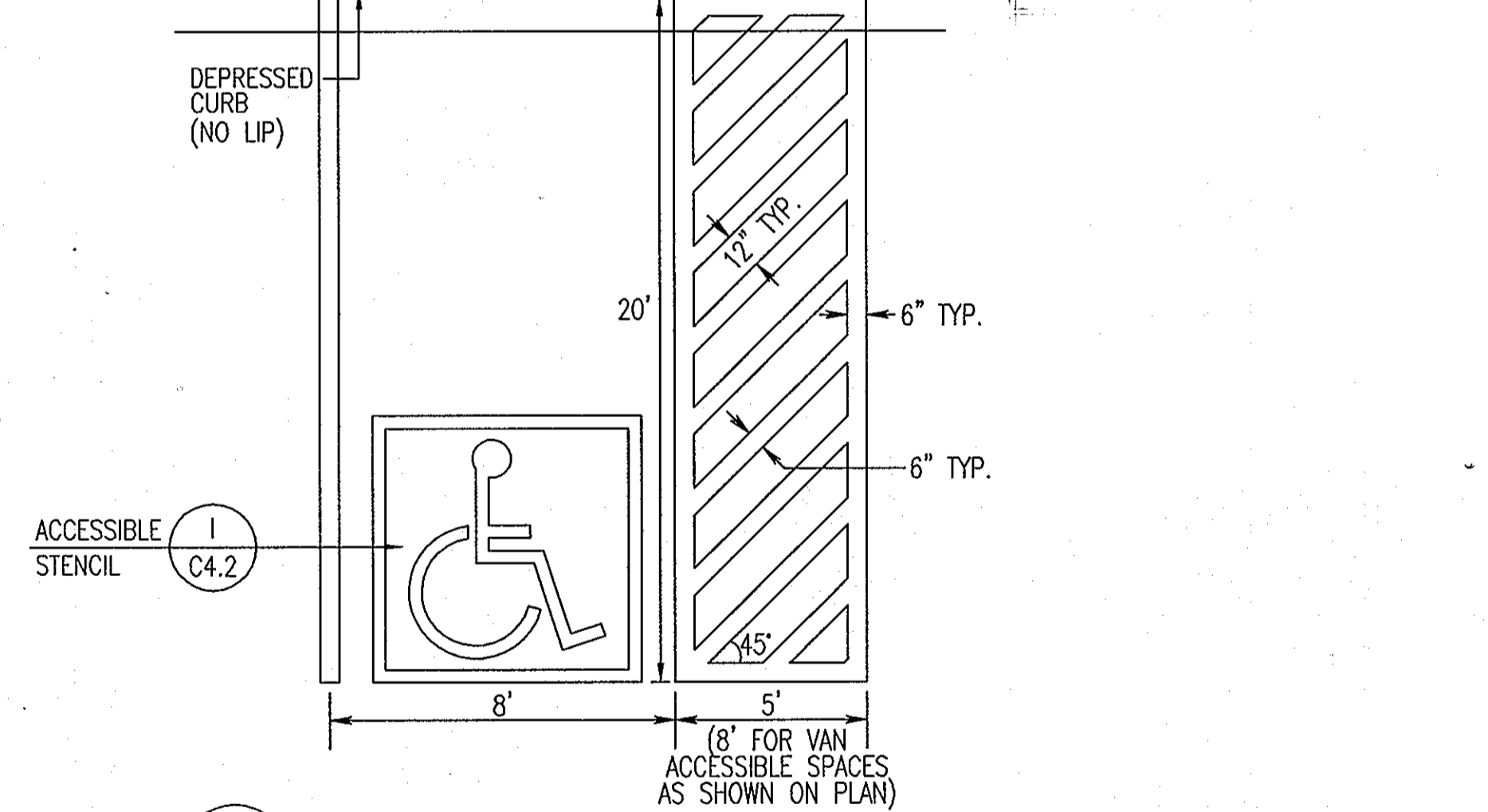
H HANDICAP SIGN
C4.2 NOT TO SCALE



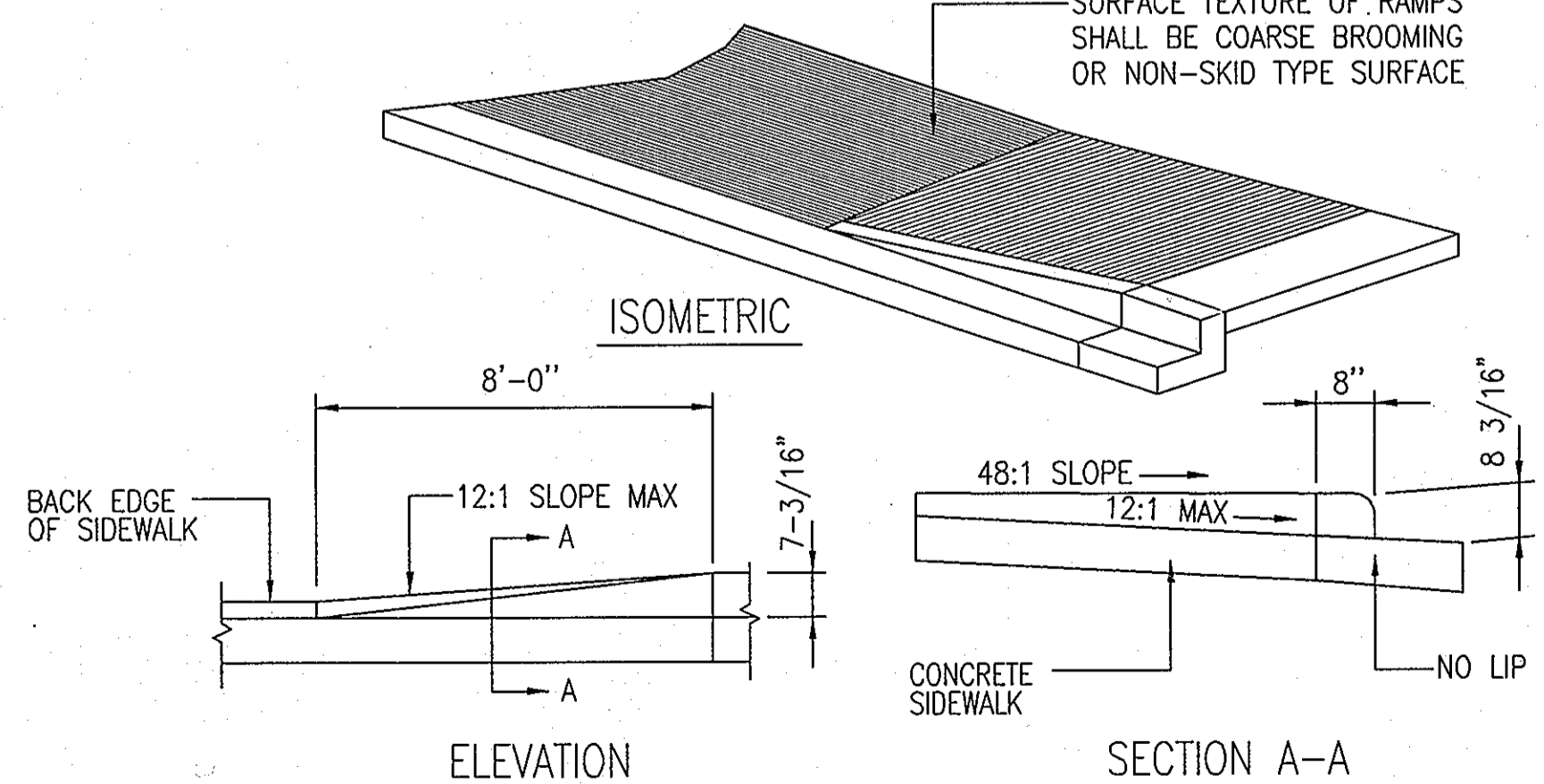
I ACCESSIBLE STENCIL
C4.2 NOT TO SCALE



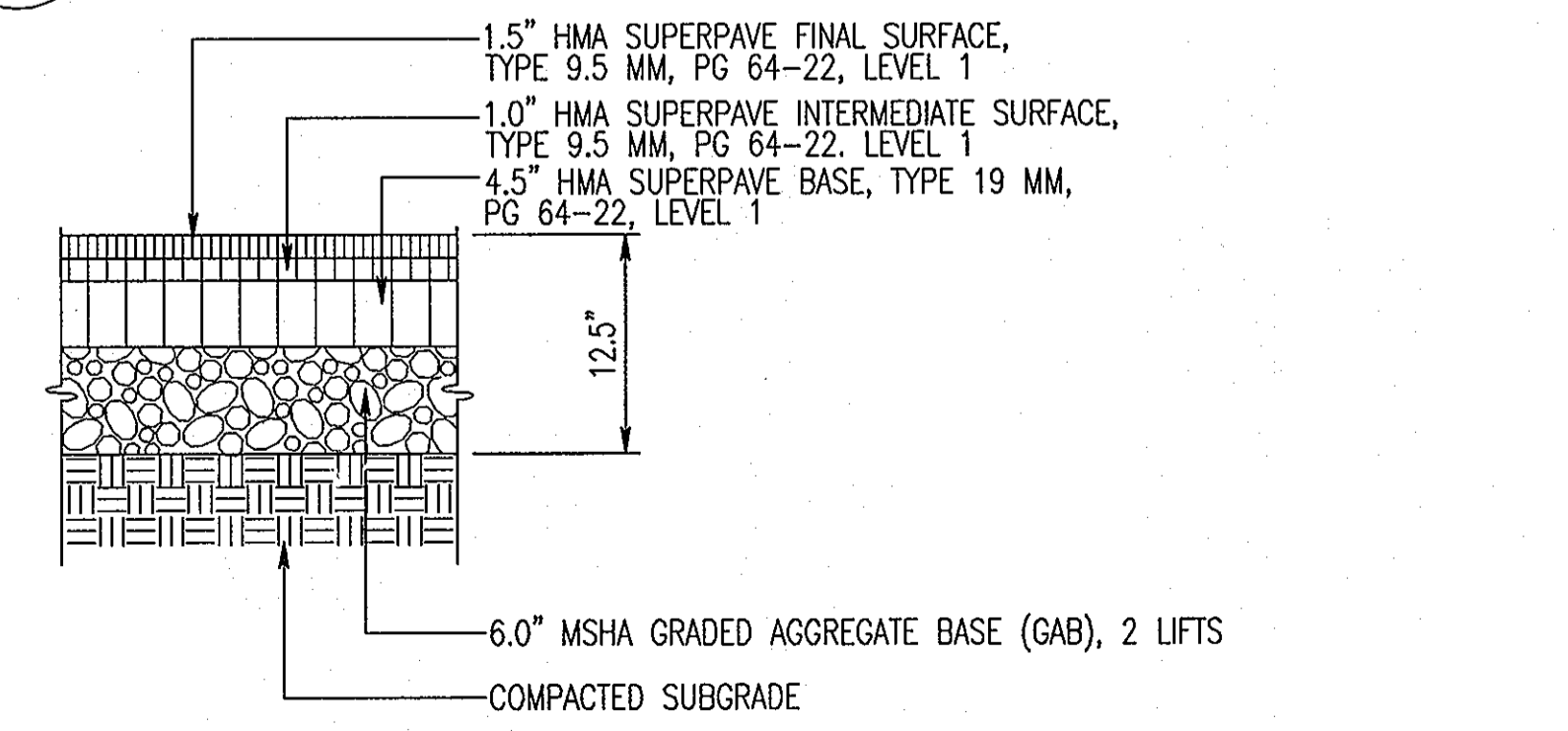
K CURB CUT DETAIL
C4.2 NOT TO SCALE



L HANDICAP MARKING LAYOUT
C4.2 NOT TO SCALE



J SIDEWALK RAMP DETAIL
C4.2 NO SCALE



M BYPASS LANE BITUMINOUS CONCRETE PAVEMENT
C4.2 NOT TO SCALE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division
 Chief, Division of Land Development
 Director

APPROVED: FOR PUBLIC WATER AND SEWERAGE SYSTEMS
 County Health Officer
 Howard County Health Department

REVISIONS	

HOWARD COUNTY
 DEPARTMENT OF RECREATION AND PARKS
 7120 OAKLAND MILLS ROAD
 COLUMBIA, MD 21046
 DEPARTMENT OF PUBLIC WORKS
 9250 BENDIX ROAD
 ELLICOTT CITY, MD 21043

WR&A
 WHITMAN, REQUARDT & ASSOCIATES, LLP
 801 South Caroline Street, Baltimore, Maryland 21231
 Phone: 410-235-3450 Fax: 410-243-5716

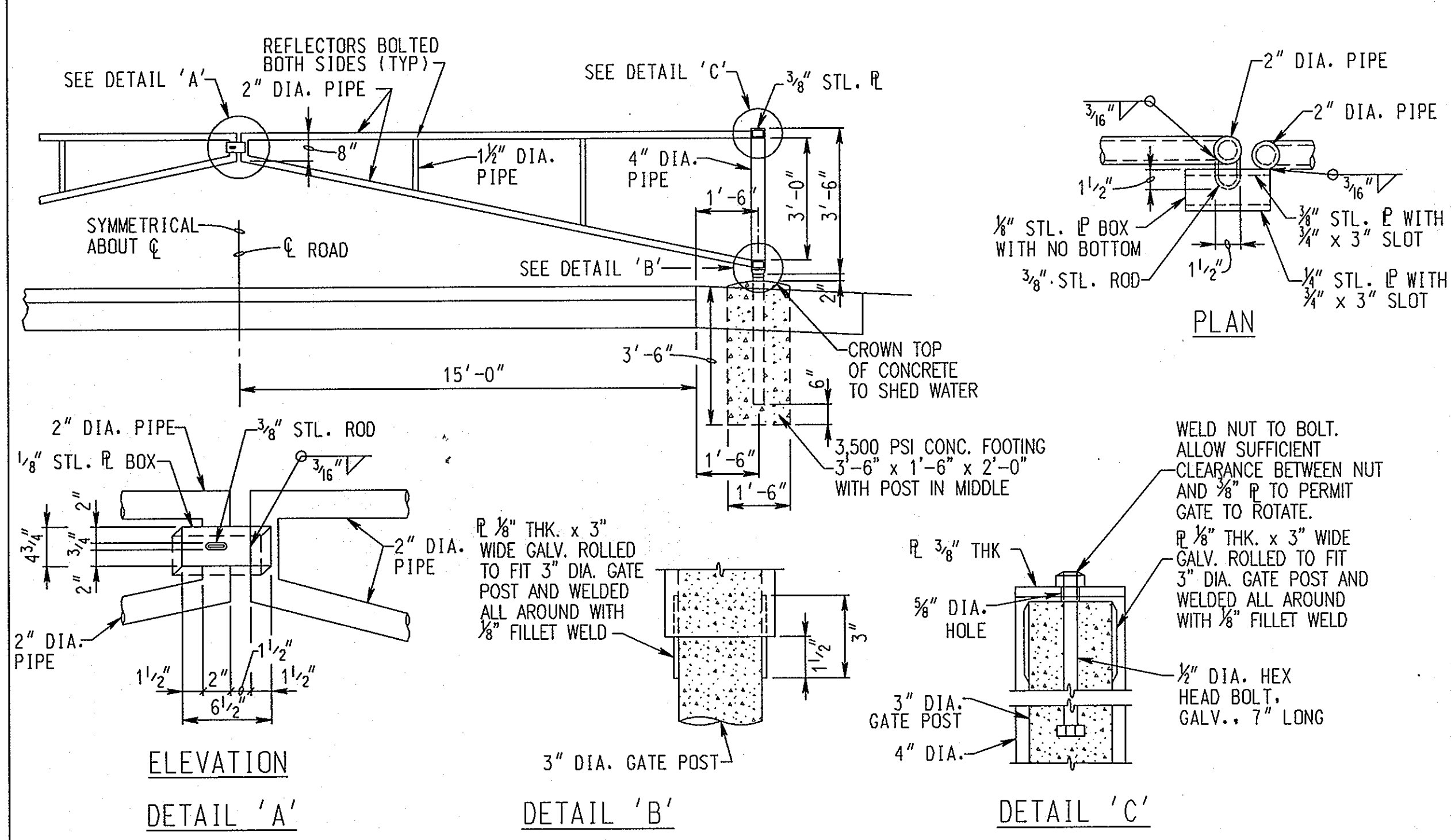
PROPERTY
 TAX MAP 36, GRID 5, PARCEL 3,72
 ZONING: RC-DEO
 ELECTION DISTRICT 3/7

GRAPHIC SCALES

SIGNATURE

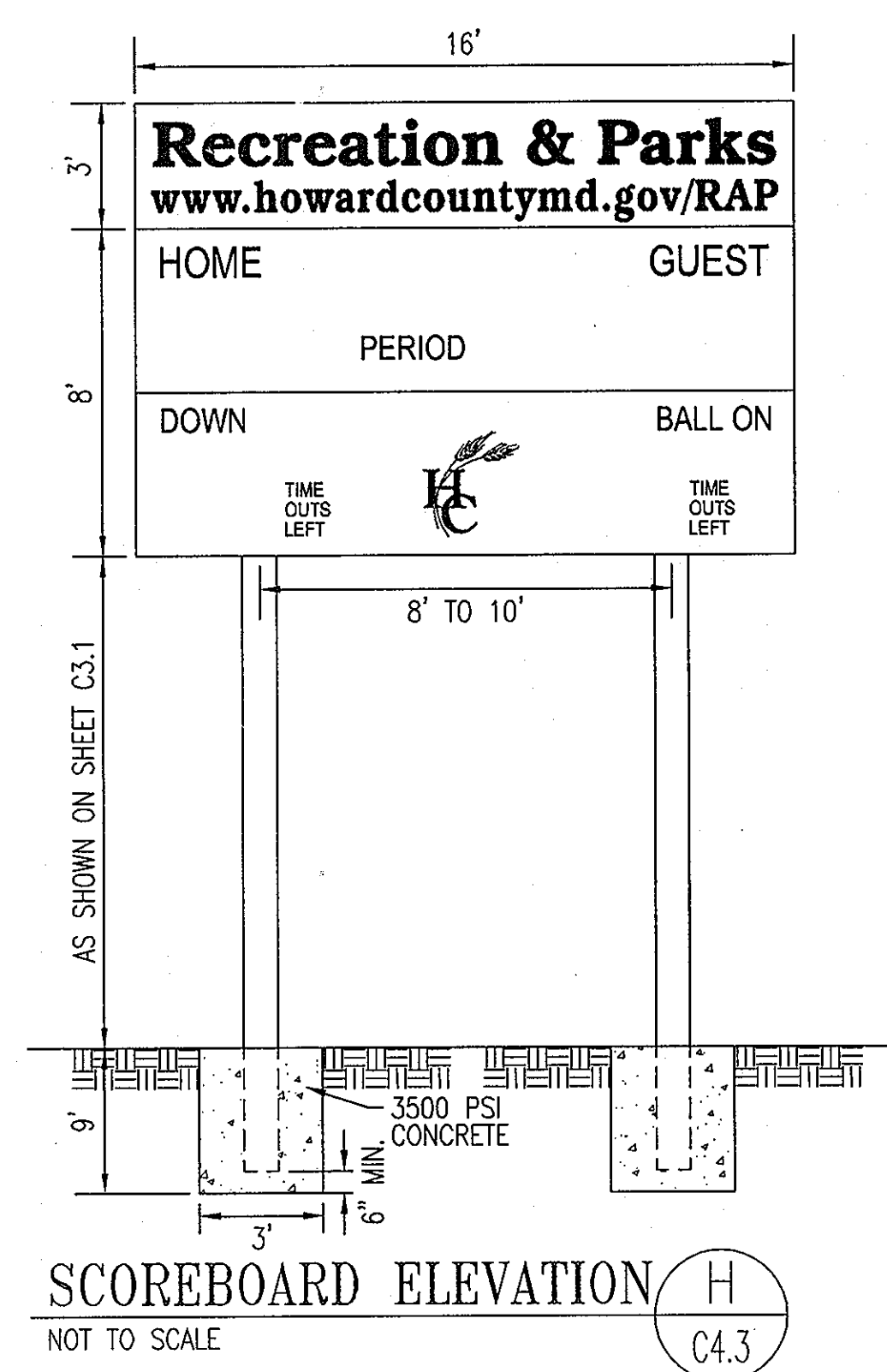
BLANDAIR REGIONAL PARK - PHASE 1

SITE DETAILS
 Drawing No. **C4.2**
 Scale: NONE
 Date: 02/19/10 Sheet 28 of 51
 Des: CYH Drawn: CJK Check: AUO
 SDP-10-007

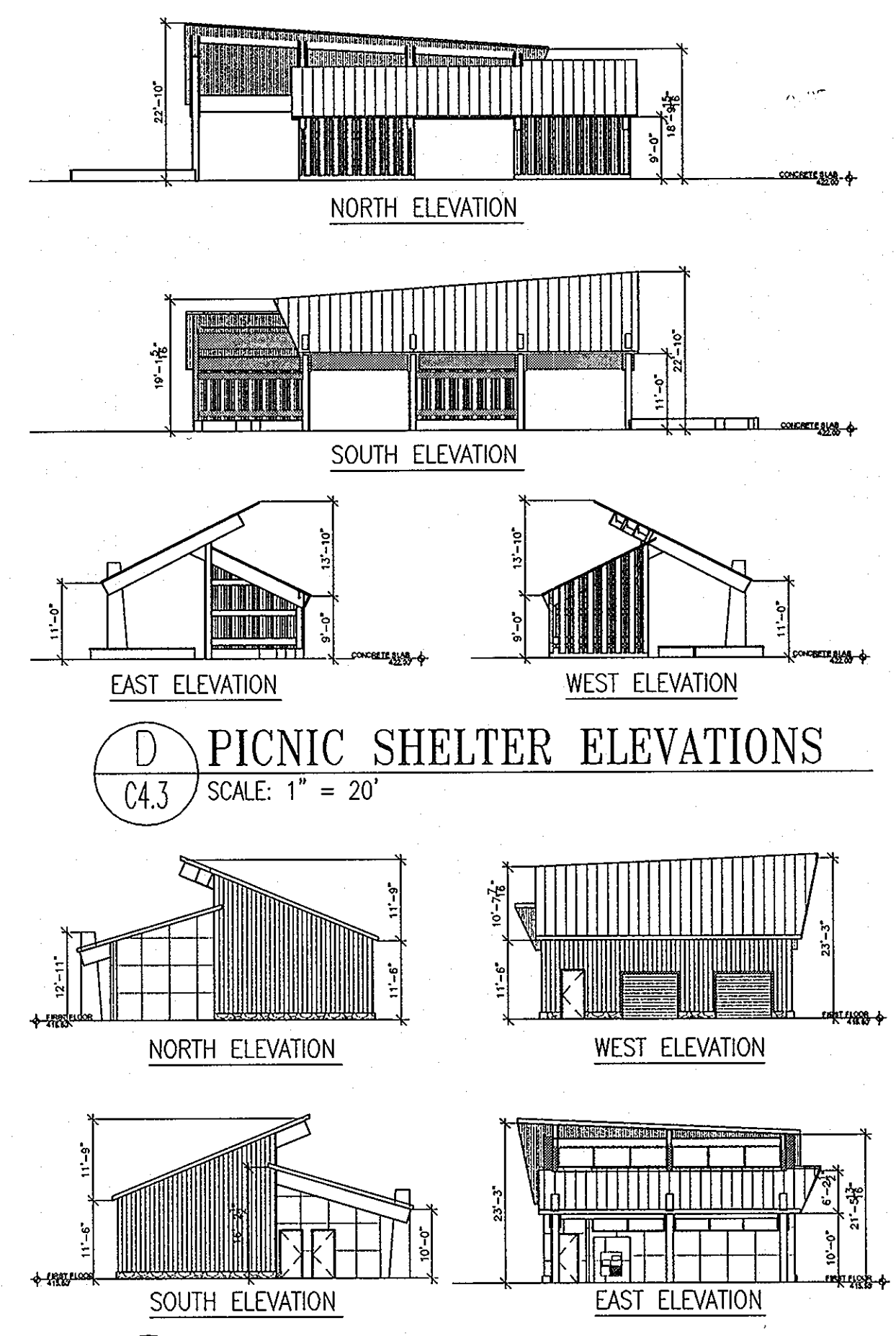


1. ALL METAL USED IN THE MANUFACTURE OF THE PIPE GATE TO BE HOT DIP GALVANIZED.
2. ALL JOINTS TO BE WELDED ALL AROUND WITH 3/16" WELDS.
3. ALL PIPE TO BE SCHEDULE 40 STEEL. DIAMETERS SHOWN ARE NOMINAL PIPE SIZE.
4. PADLOCK TO BE FURNISHED BY OWNER.
5. CONTRACTOR TO FURNISH AND INSTALL AN ADDITIONAL 3" DIA. POST WITH 3/8" ROD. LOCATE TO HOLD GATE IN AN OPEN POSITION 90° FROM THAT SHOWN ON THE PLAN.
6. PAINT GATES AND POST WITH TWO(2) COATS OF GLOSS BLACK, POLYURETHANE PAINT, PRIME FIRST.
7. SUBMIT SHOP DRAWINGS FOR OWNERS APPROVAL PRIOR TO FABRICATION.

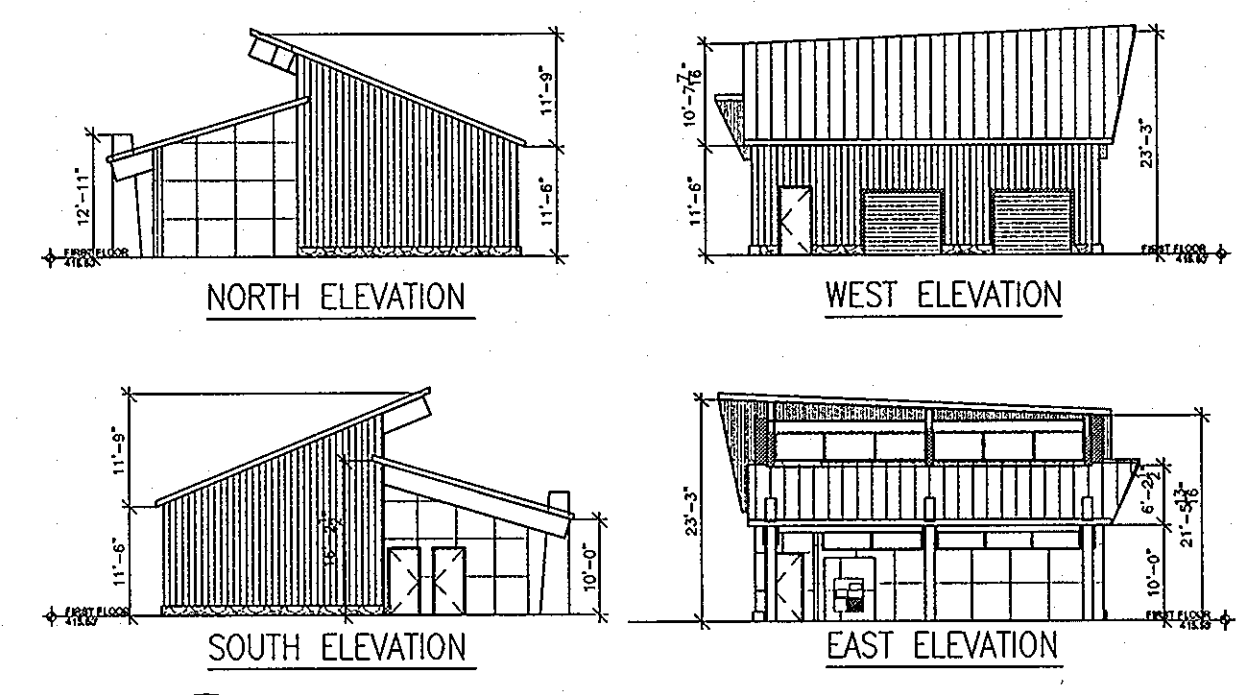
A PIPE GATE
C4.3 NOT TO SCALE



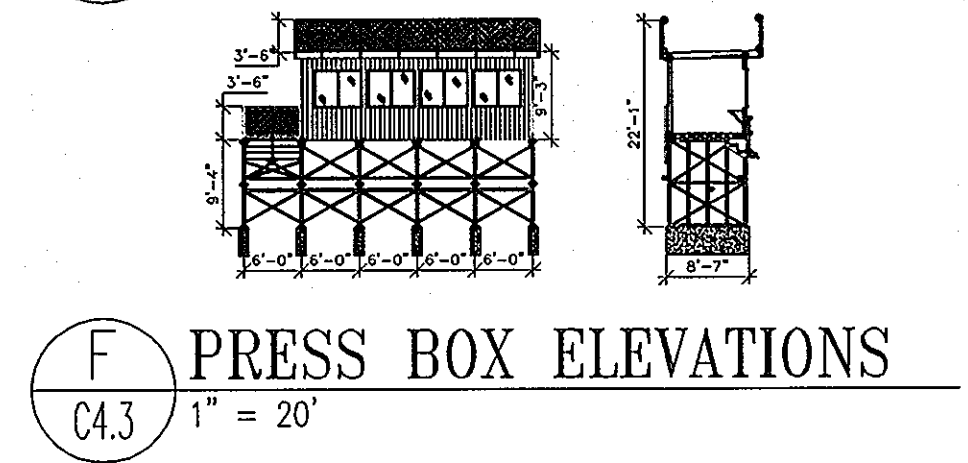
SCOREBOARD ELEVATION
NOT TO SCALE C4.3



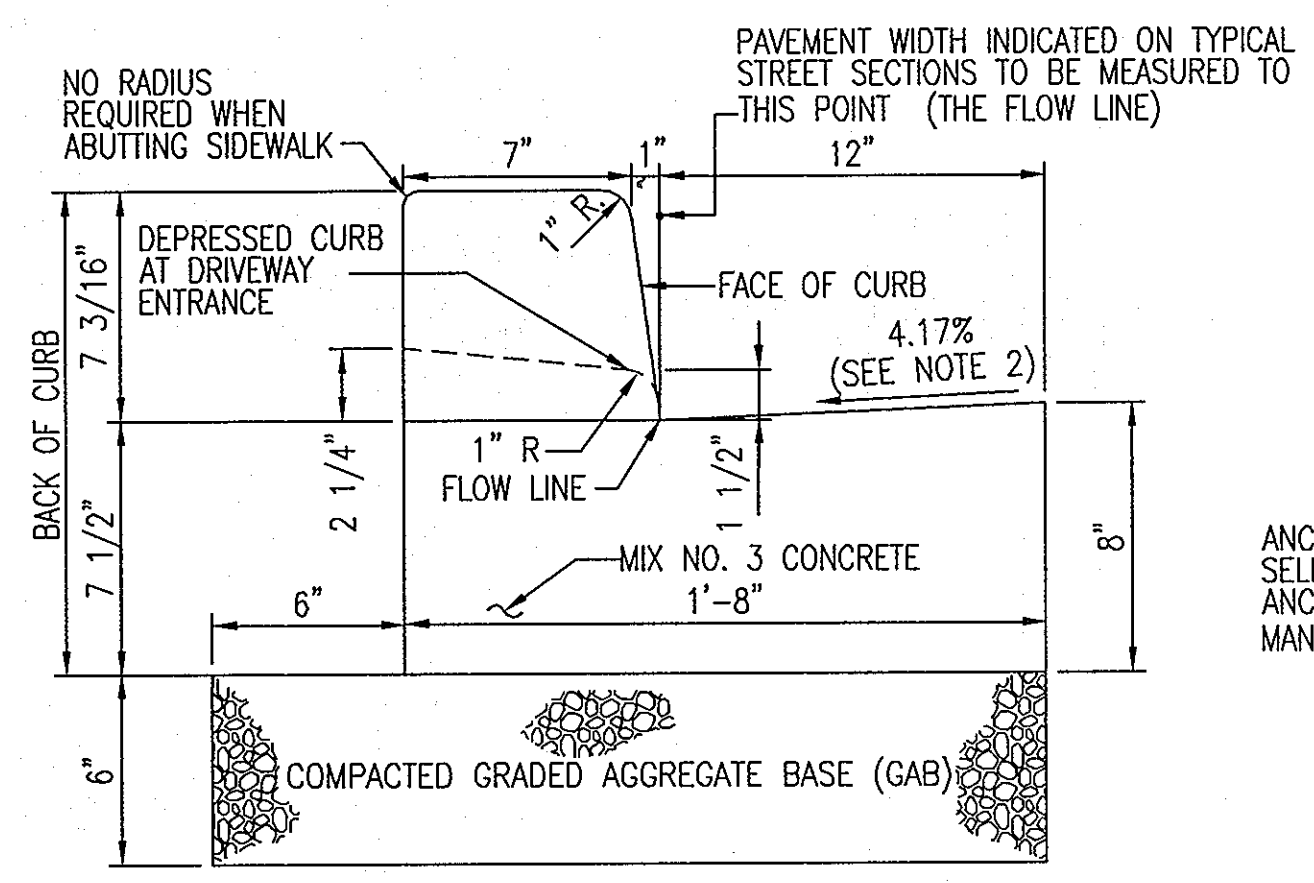
D PICNIC SHELTER ELEVATIONS
C4.3 SCALE: 1" = 20'



E COMFORT STATION ELEVATIONS
C4.3 SCALE: 1" = 20'

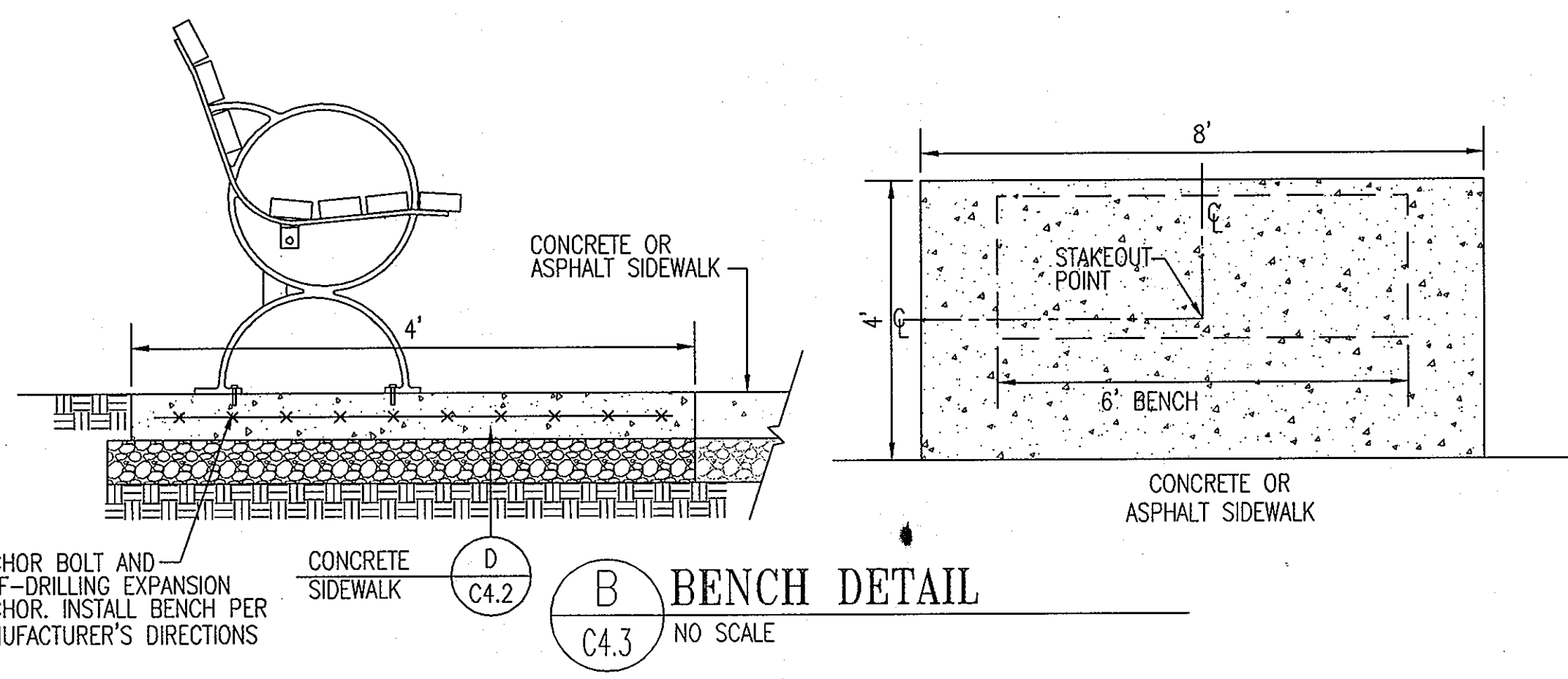


F PRESS BOX ELEVATIONS
C4.3 1" = 20'

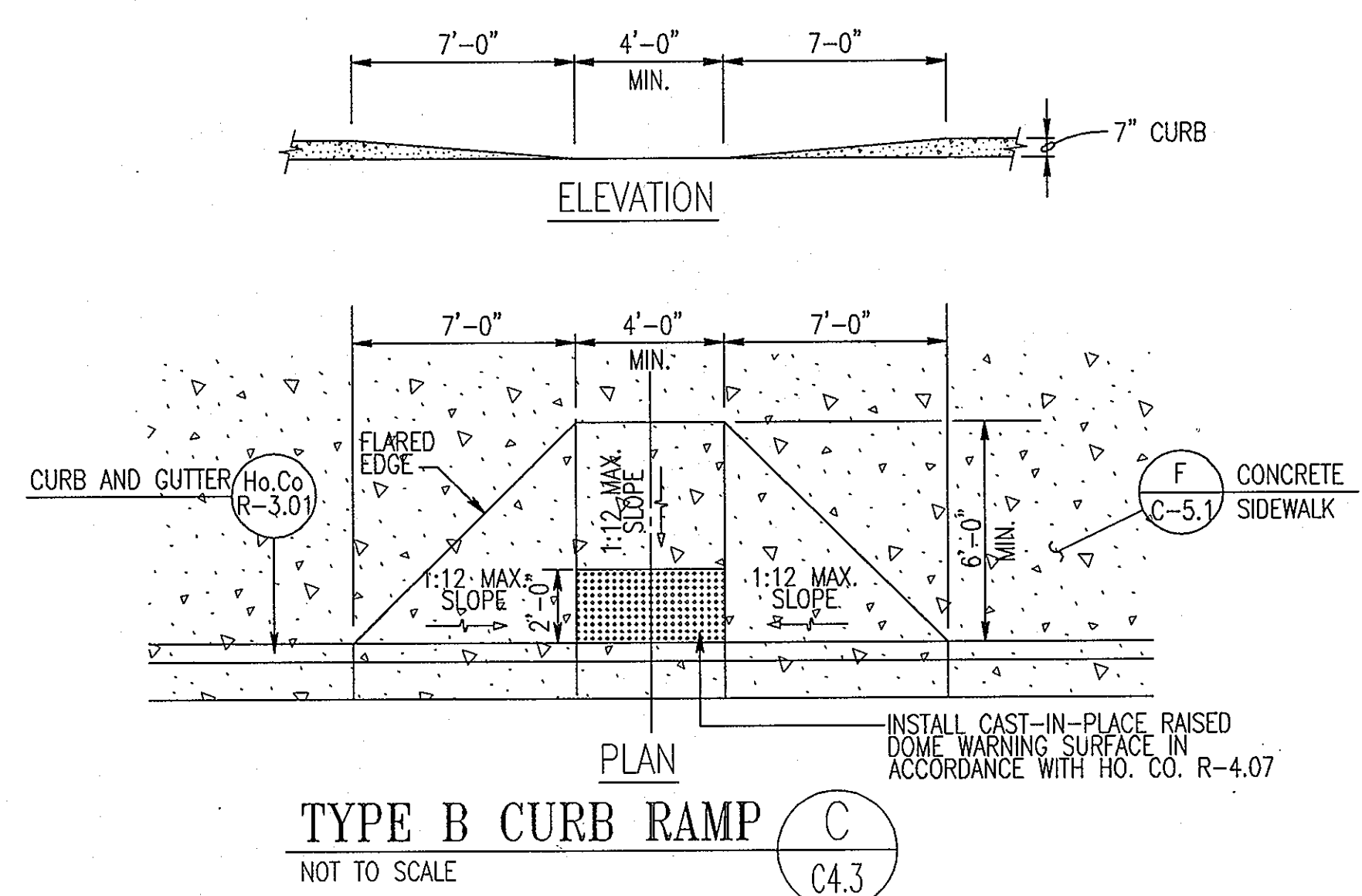


- NOTES:
1. A REVERSE GUTTER PAN SHALL HAVE A GUTTER SLOPE OF 4.17% AWAY FROM THE FLOW LINE, AND SHALL NOT BE USED WHERE THIS DRAINAGE CREATES A HAZARDOUS CONDITION.
 2. GUTTER PAN AT THE MEDIAN EDGE OF INTERMEDIATE ARTERIALS OR THE HIGH SIDE OF SUPERELEVATED SECTIONS SHALL BE SLOPED AT THE SAME RATE AND IN THE SAME DIRECTION AS THE PAVEMENT. MATCH PAVEMENT CROSS SLOPE WHEN CURB IS LOCATED ON THE LOW SIDE OF SUPERELEVATED SECTION AND THE RATE OF SUPERELEVATION IS GREATER THAN 3% FOR MODIFIED CURB & GUTTER.
 3. A MINIMUM OF TWO (2) FEET OF COMPACTED STABILIZED EARTH, OR EQUIVALENT, SHALL SUPPORT THE ENTIRE BACK OF CURB.
 4. POSITIVE DRAINAGE SHALL BE PROVIDED BOTH BEHIND THE CURB AND ALONG THE GUTTER AND FLOW LINE.
 5. DETAIL PROVIDED FOR REFERENCE ONLY. SEE HOWARD COUNTY STANDARD DETAILS.

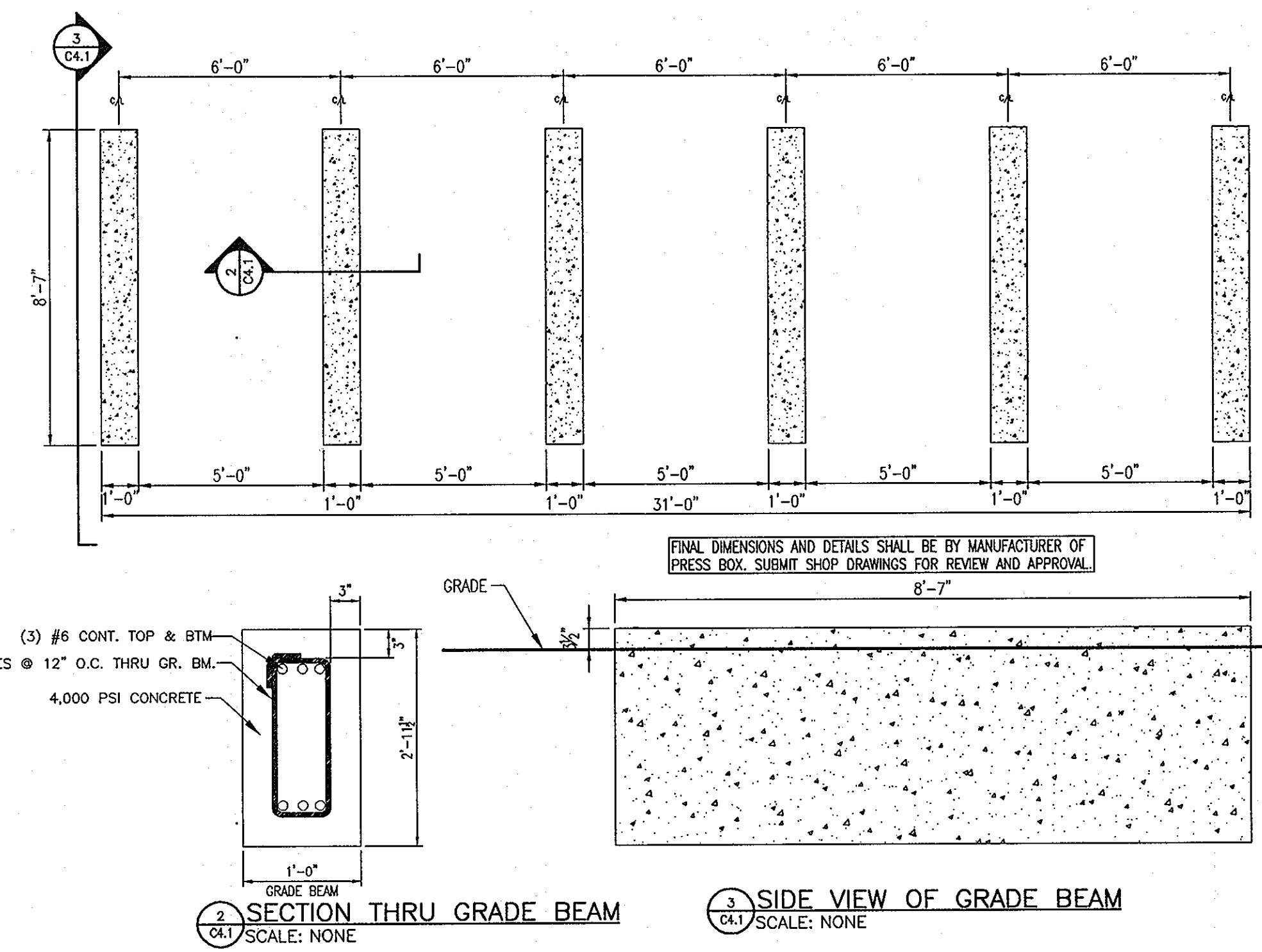
HOWARD CO. 7" CURB
Ho. Co. R-3.01 NOT TO SCALE



B BENCH DETAIL
C4.3 NO SCALE



TYPE B CURB RAMP
NOT TO SCALE C4.3



G PRESS BOX FOUNDATION DETAIL
C4.3 NOT TO SCALE

REVISIONS	

HOWARD COUNTY
DEPARTMENT OF RECREATION AND PARKS
7120 OAKLAND MILLS ROAD
COLUMBIA, MD 21046

DEPARTMENT OF PUBLIC WORKS
9250 BENDIX ROAD
ELLICOTT CITY, MD 21043

WR&A
WHITMAN, REQUARDT & ASSOCIATES, LLP
801 South Caroline Street, Baltimore, Maryland 21231
Phone: 410-235-3450 Fax: 410-243-6716

PROPERTY

TAX MAP 36, GRID 5, PARCEL 3,72

ZONING: RC-DEO

ELECTION DISTRICT 3/7

GRAPHIC SCALES

0 10' 20' 40'

SCALE: 1" = 20'-0"

SIGNATURE

Anthony Colby

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19376
EXPIRATION DATE: 09/22/2011

BLANDAIR REGIONAL PARK - PHASE 1

SITE DETAILS

Drawing No. **C4.3**

Scale: AS SHOWN

Date: 02/19/10 Sheet 29 of 51

Des: CYH Drawn: CJK Check: AUO

APPROVED: DEPARTMENT OF PLANNING AND ZONING

John D. ... 2/9/10
CHIEF, DEVELOPMENT ENGINEERING DIVISION

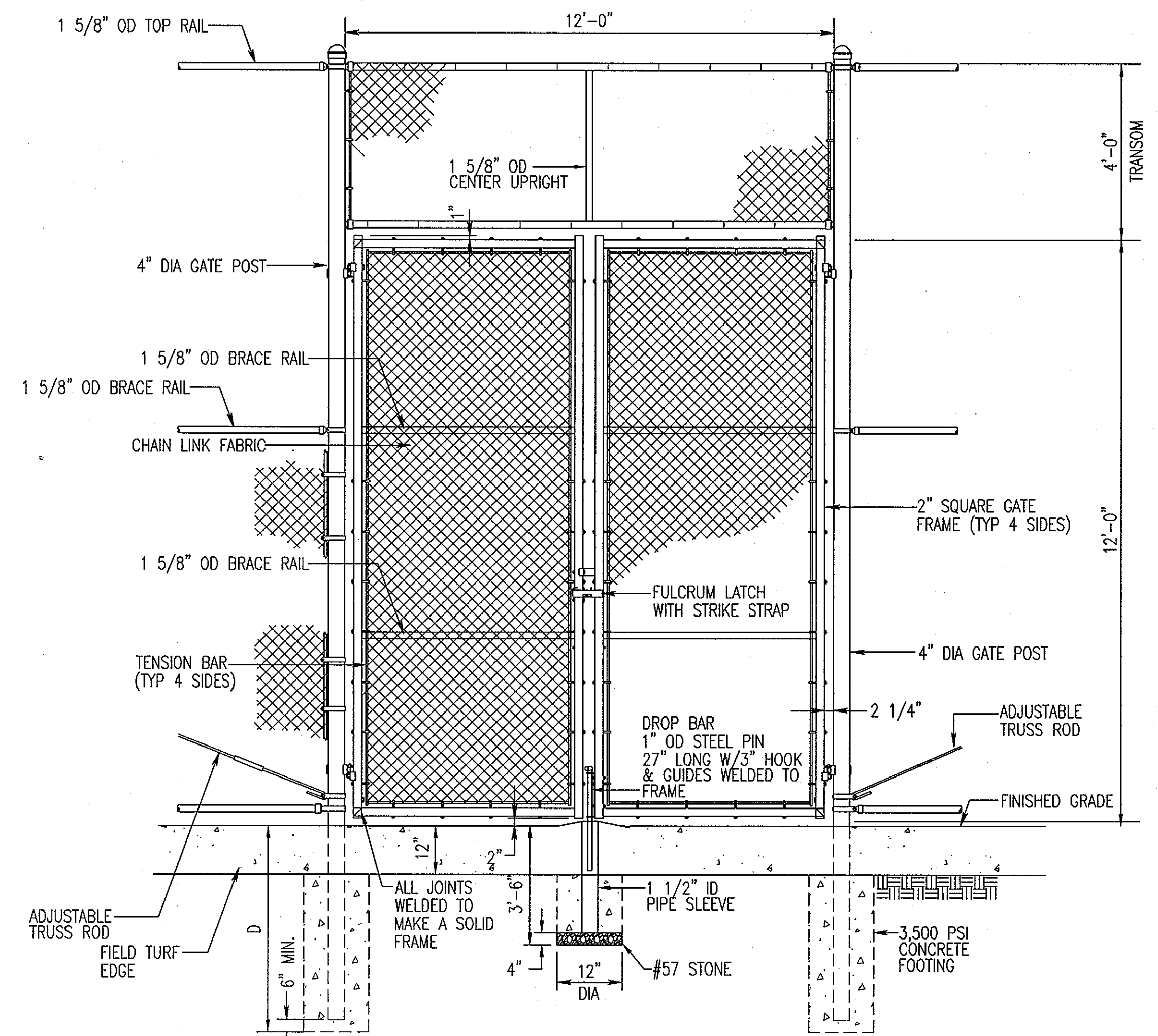
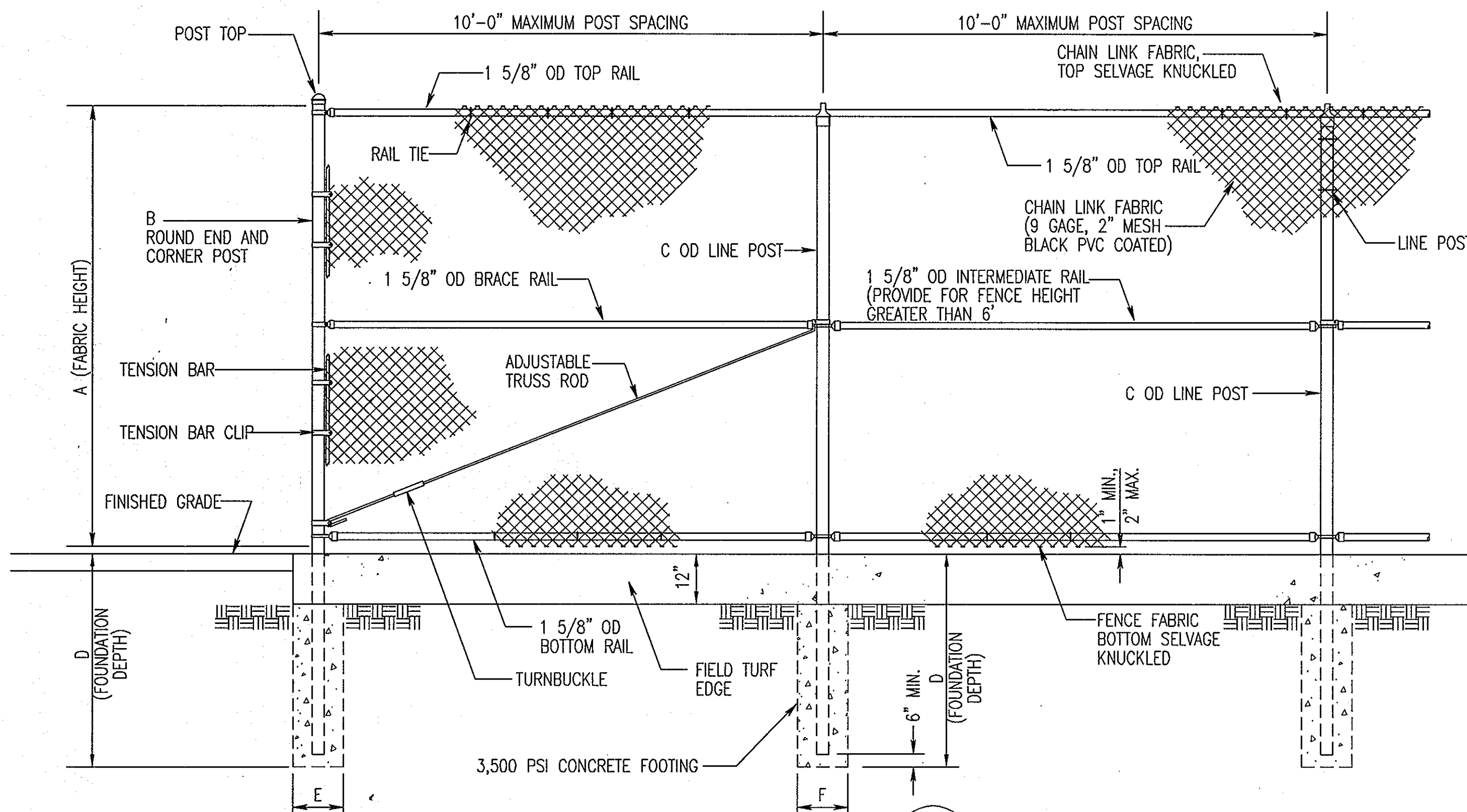
Keith ... 4/23/10
CHIEF, DIVISION OF LAND DEVELOPMENT

... & ... 4/1/10
DIRECTOR

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS

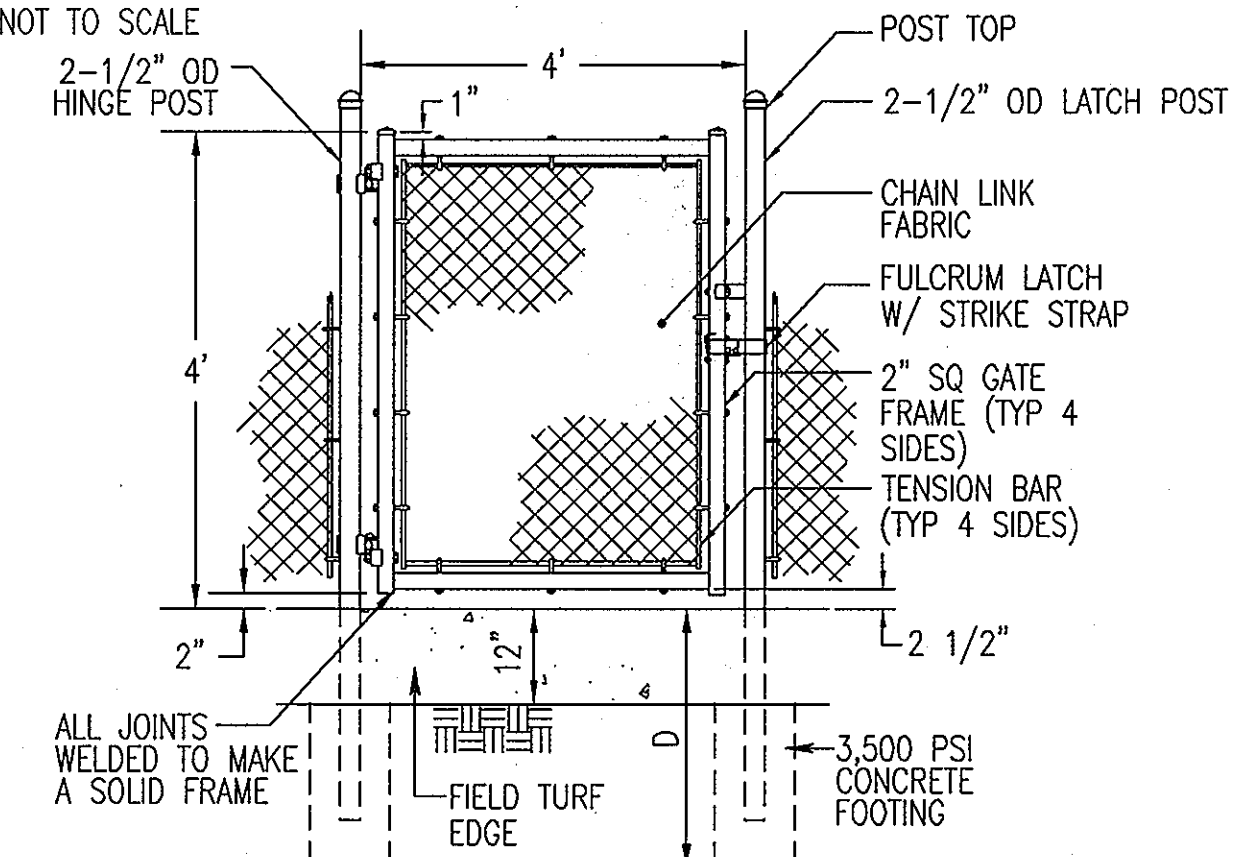
B. Wilson for Peter ... 3/31/2010
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT

PLOT DATE: 2/19/2010 9:54:49 AM PAGE SETUP: SETS (ANSI) PAPER SIZE: ARCH D (36.00 X 48.00 INCHES)

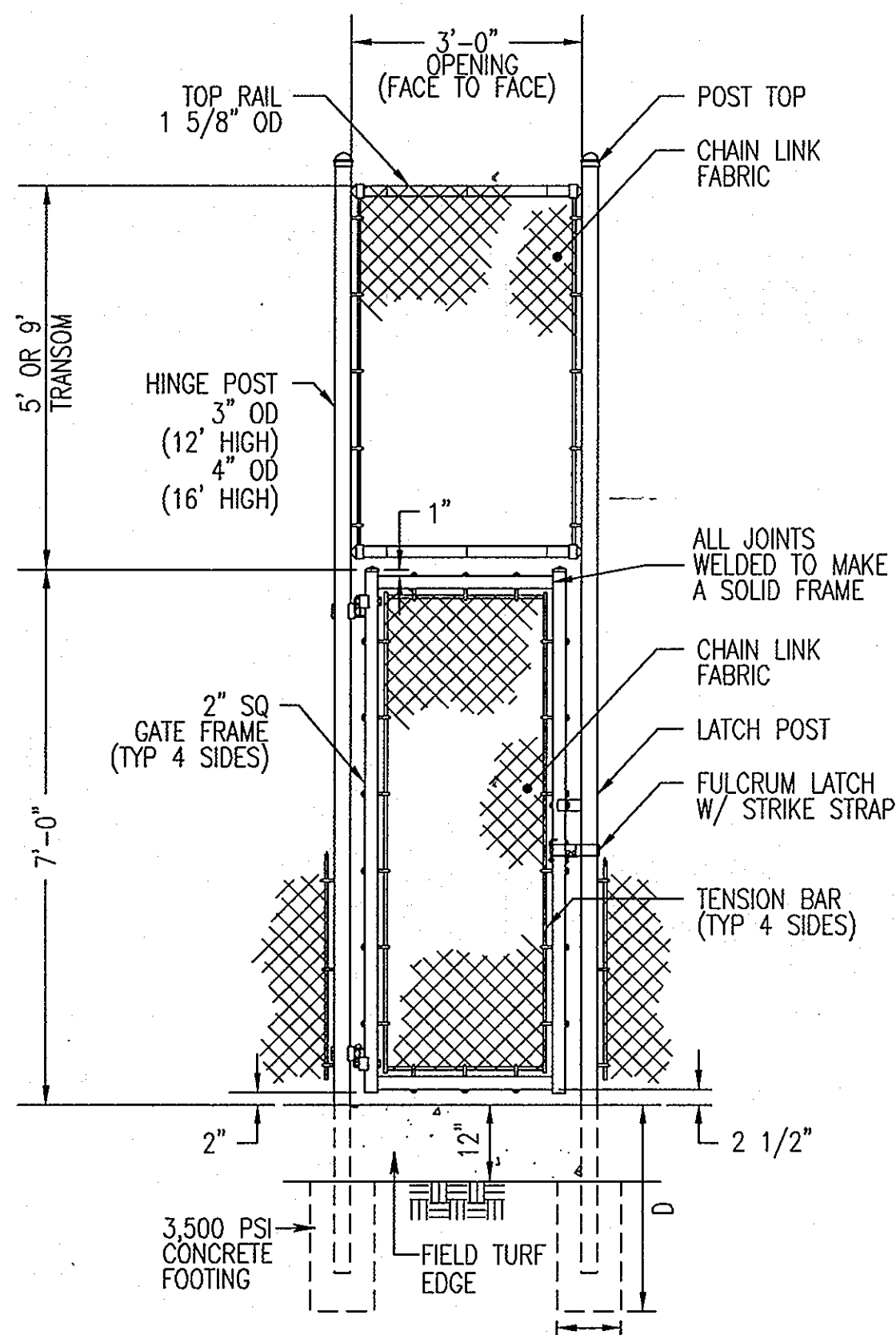


A (FENCE HEIGHT AS SHOWN ON PLAN)	4'-0\"/> <th>8'-0\"/> <th>12'-0\"/> <th>16'-0\"/> </th></th></th>	8'-0\"/> <th>12'-0\"/> <th>16'-0\"/> </th></th>	12'-0\"/> <th>16'-0\"/> </th>	16'-0\"/>
B (END AND CORNER POST DIA.)*	2 1/2"	3"	3"	4"
C (LINE POST DIA.)	2"	2 1/2"	3"	3"
D (FOUNDATION DEPTH)	3'-0"	3'-6"	4'-6"	5'-6"
E (END AND CORNER POST FOUNDATION DIA.)	12"	15"	15"	18"
F (LINE POST FOUNDATION DIA.)	10"	12"	15"	15"

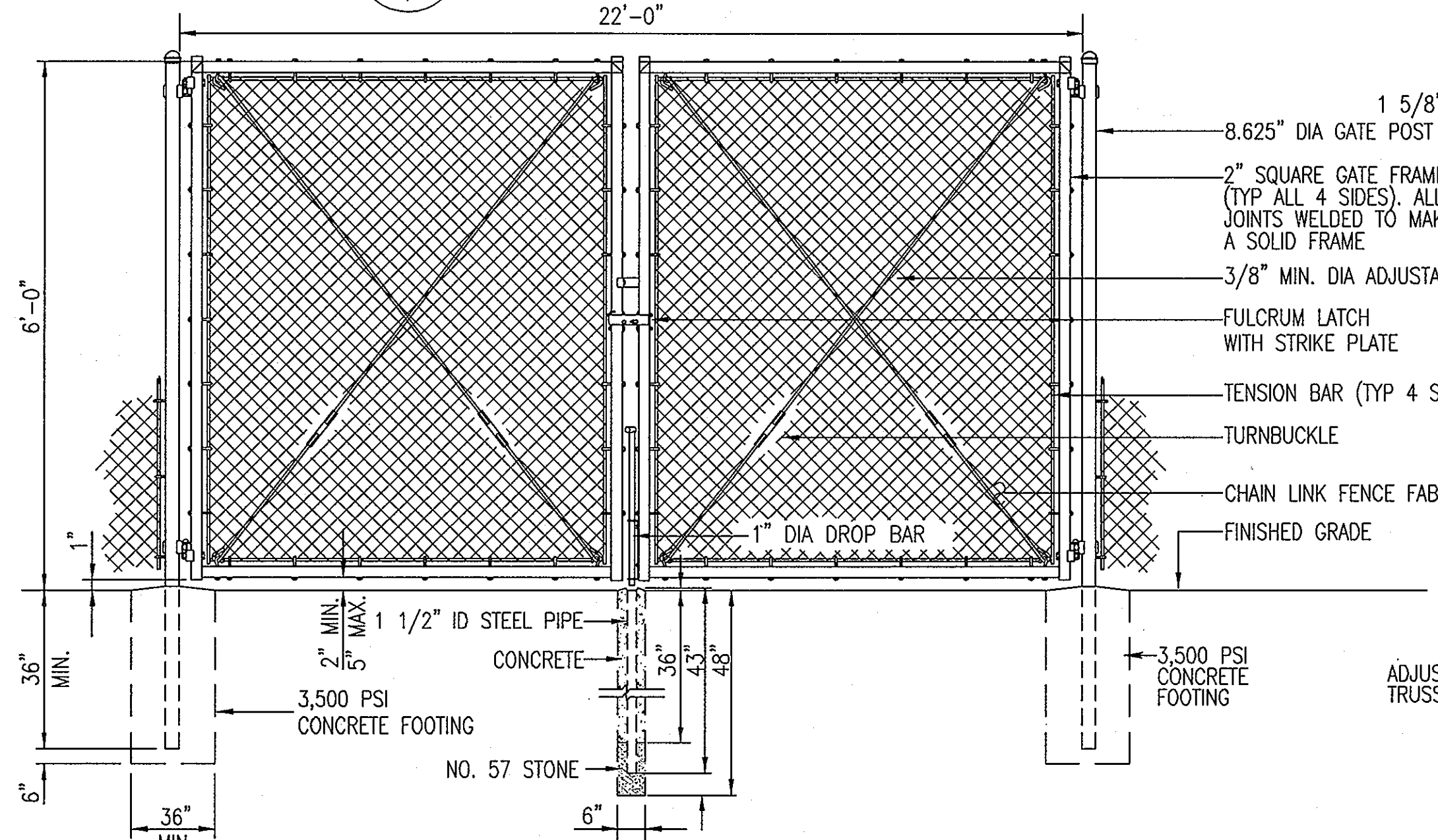
A CHAIN LINK FENCE
C4.4 NOT TO SCALE



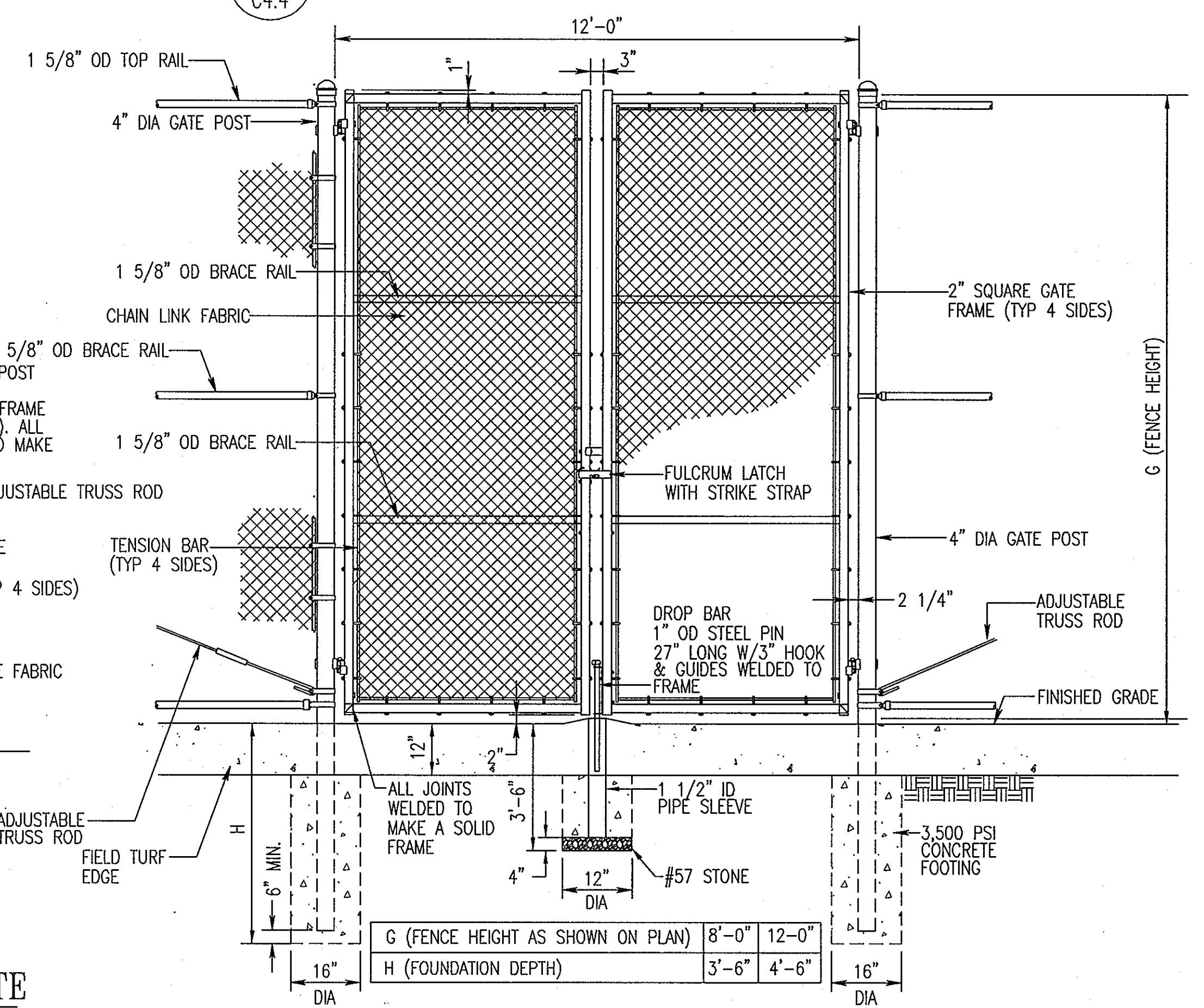
D 4' WIDE CHAIN LINK FENCE GATE
C4.4 NOT TO SCALE



C 3' WIDE CHAIN LINK FENCE GATE
C4.4 NOT TO SCALE



E 22' WIDE CHAIN LINK FENCE GATE
C4.4 NOT TO SCALE



F 12' WIDE, 8' OR 12' HIGH CHAIN LINK FENCE GATE
C4.4 NOT TO SCALE

REVISIONS	

HOWARD COUNTY
DEPARTMENT OF RECREATION AND PARKS
7120 OAKLAND MILLS ROAD
COLUMBIA, MD 21046
DEPARTMENT OF PUBLIC WORKS
9250 BENDIX ROAD
ELLICOTT CITY, MD 21043

WR&A
WHITMAN, REQUARDT & ASSOCIATES, LLP
801 South Caroline Street, Baltimore, Maryland 21213
Phone: 410-235-3450 Fax: 410-243-5716

PROPERTY
TAX MAP 36, GRID 5, PARCEL 3,72
ZONING: RC-DEO
ELECTION DISTRICT 3/7

GRAPHIC SCALES

SIGNATURE

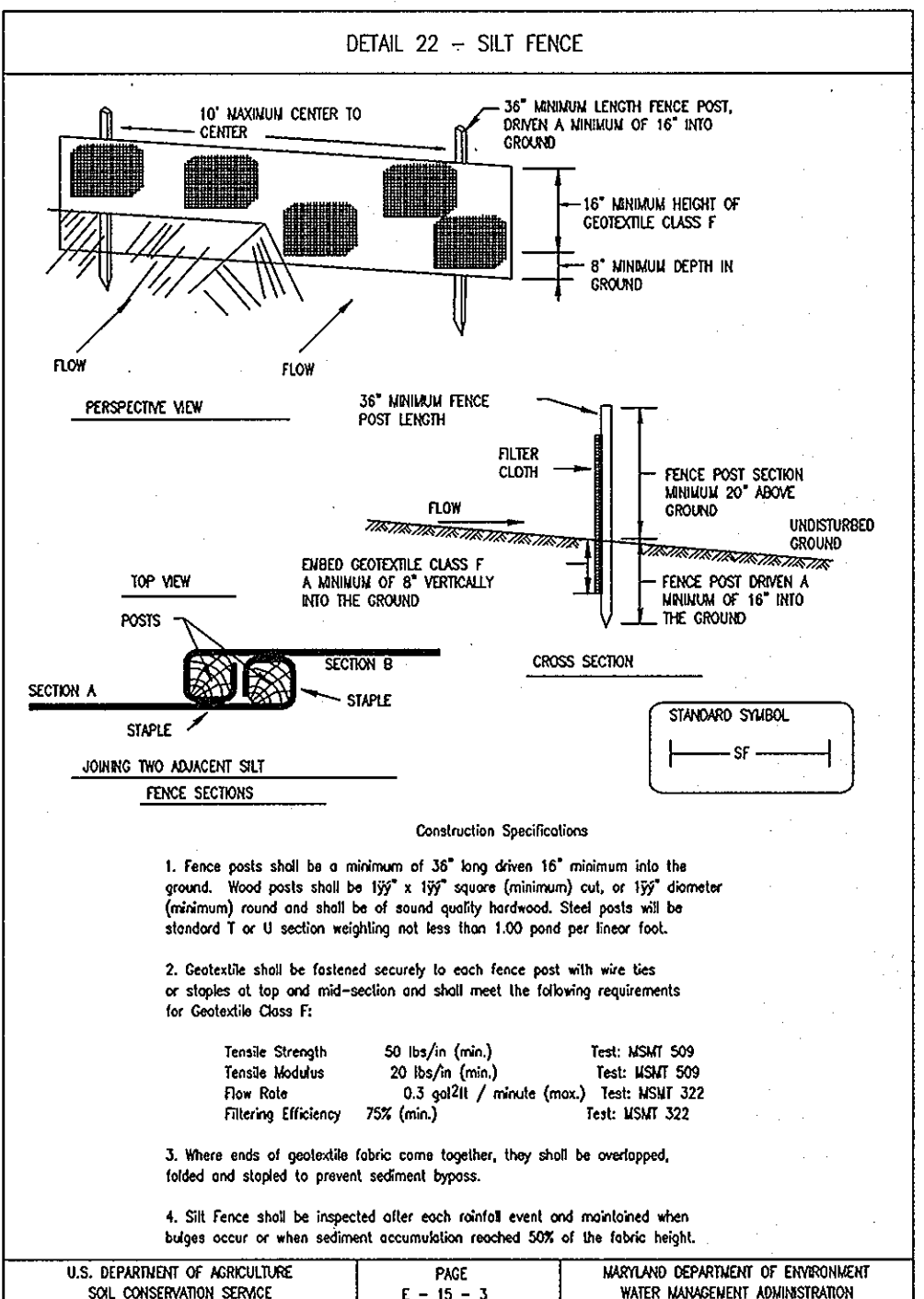
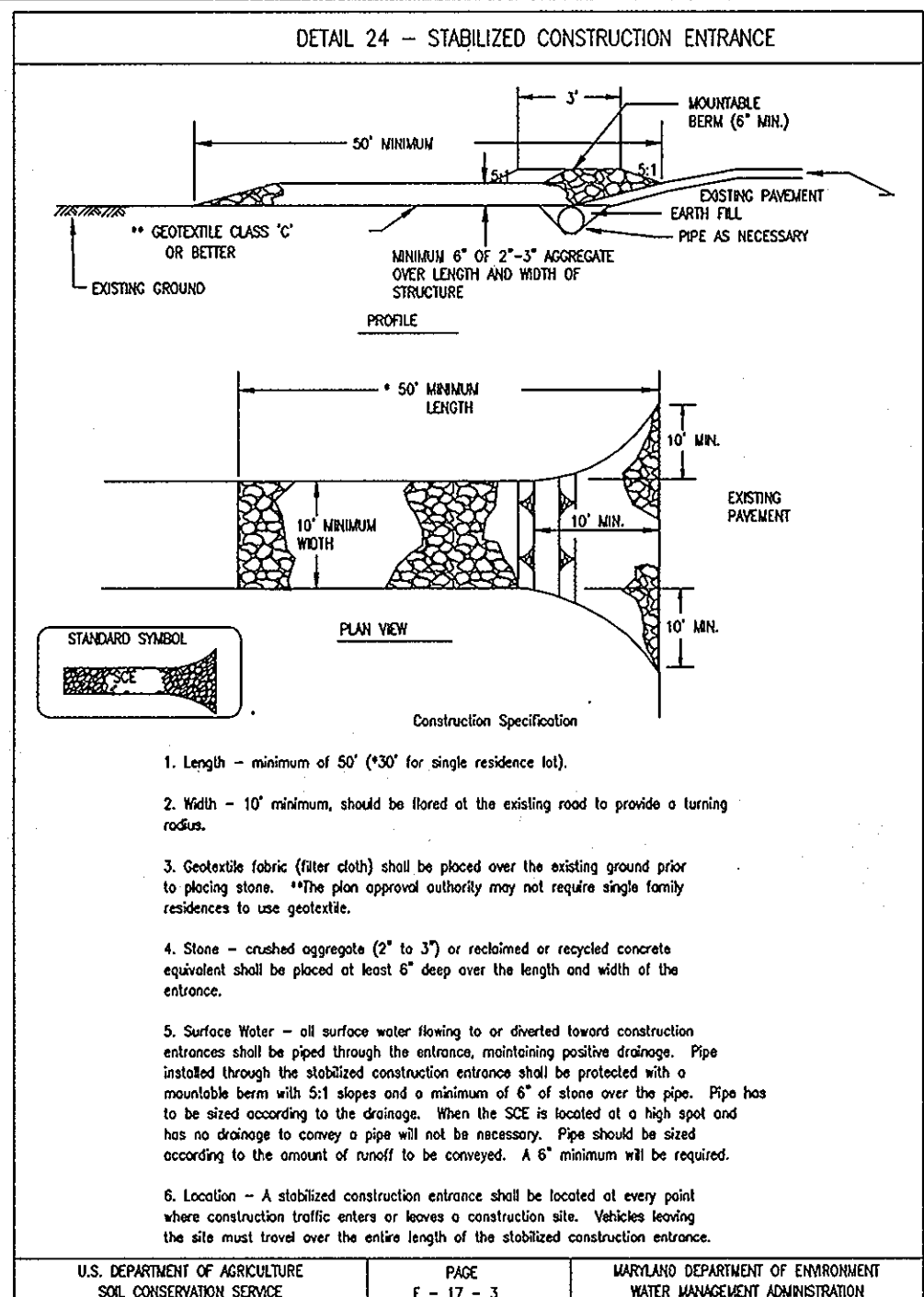
BLANDAIR REGIONAL PARK - PHASE 1

SITE DETAILS
Drawing No. **C4.4**
Scale: NONE
Date: 02/19/10 Sheet 30 of 51
Des: CYH Drawn: CJK Check: AUO

APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature] DATE: 3/9/10
[Signature] DATE: 4/03/10
[Signature] DATE: 4/8/10

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS
[Signature] DATE: 3/31/2010
[Signature] DATE: 7/9/10

PLOT DATE: 2/19/2010 9:59:49 AM PAGE SETUP: SETS 6/24/2010 PLOT STYLE: VPL_PLOT.CTB PAPER: SITEGRAPH D 08.60 X 24.00 INCHES

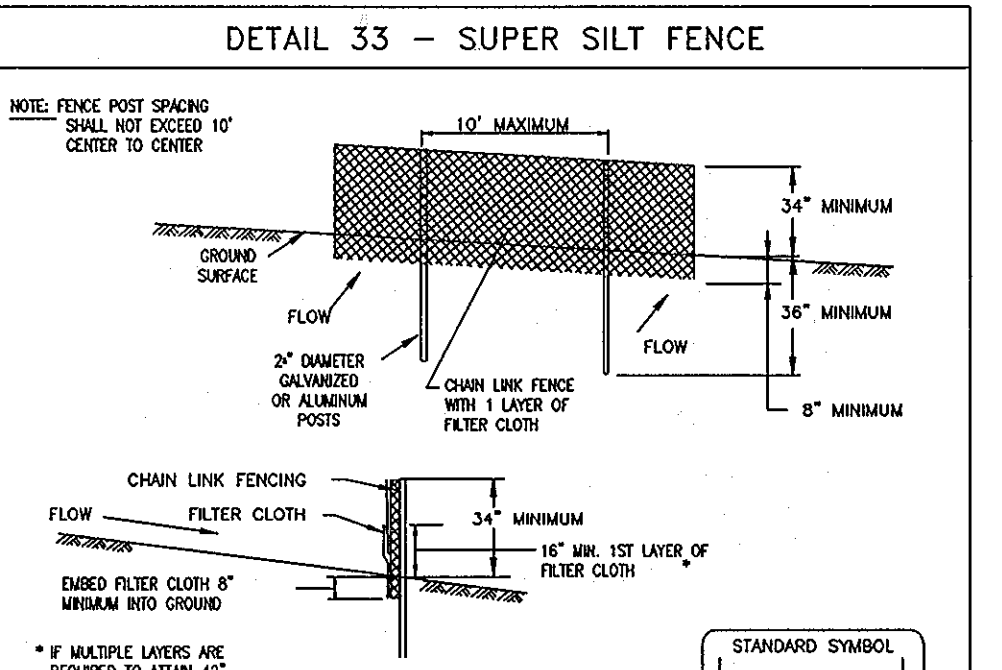


SILT FENCE

Slope Steepness	Slope Length (Minimum)	Silt Fence Length (Maximum)
Flatter than 50:1	unlimited	unlimited
50:1 to 10:1	125 feet	1,000 feet
10:1 to 5:1	100 feet	750 feet
5:1 to 3:1	60 feet	500 feet
3:1 to 2:1	40 feet	250 feet
2:1 and steeper	20 feet	125 feet

Note: In areas of less than 2:1 slope and sandy soils (USDA general classification system, soil Class A) maximum slope length and all fence length will be unlimited. In these areas a silt fence may be the only perimeter control required.

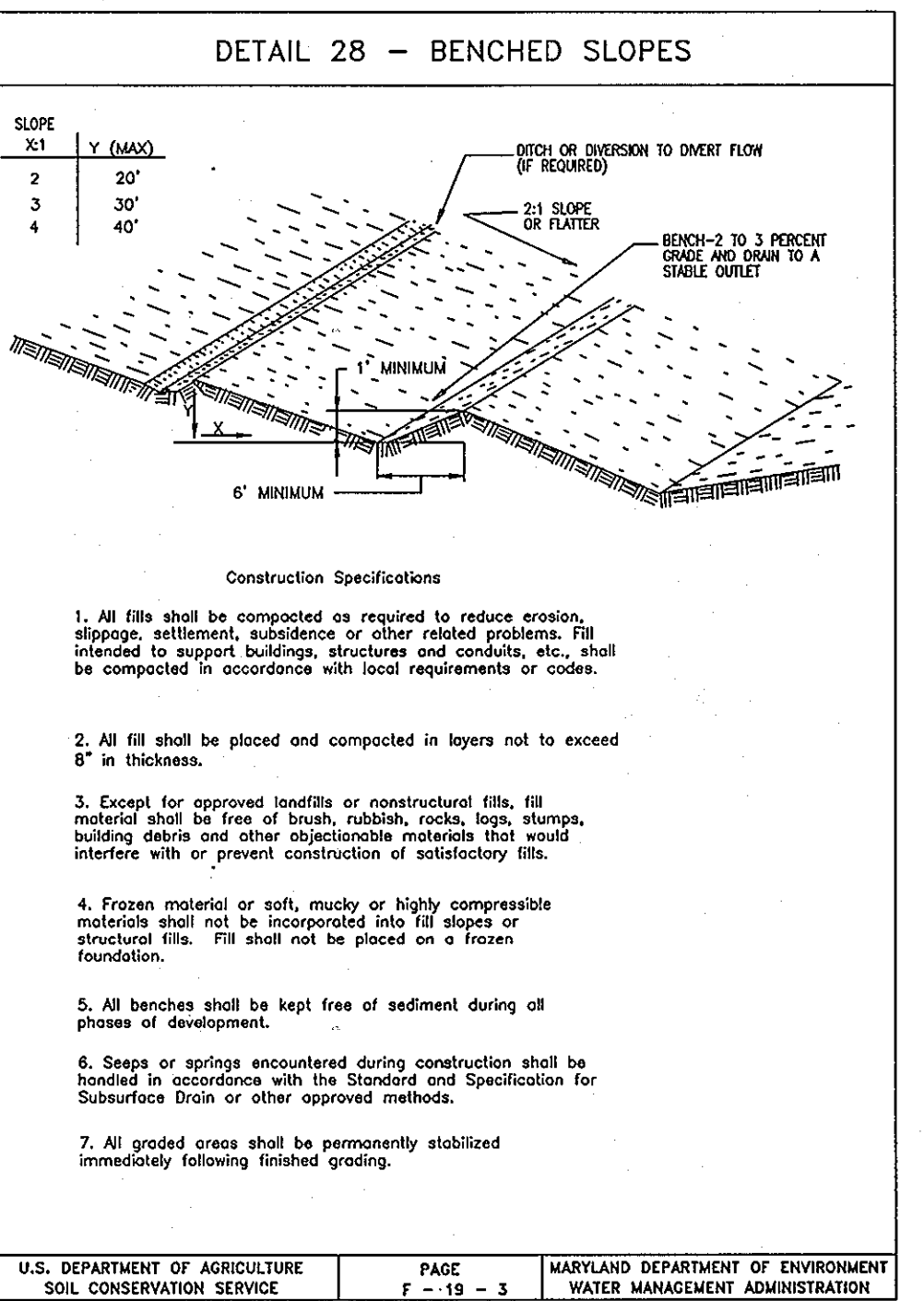
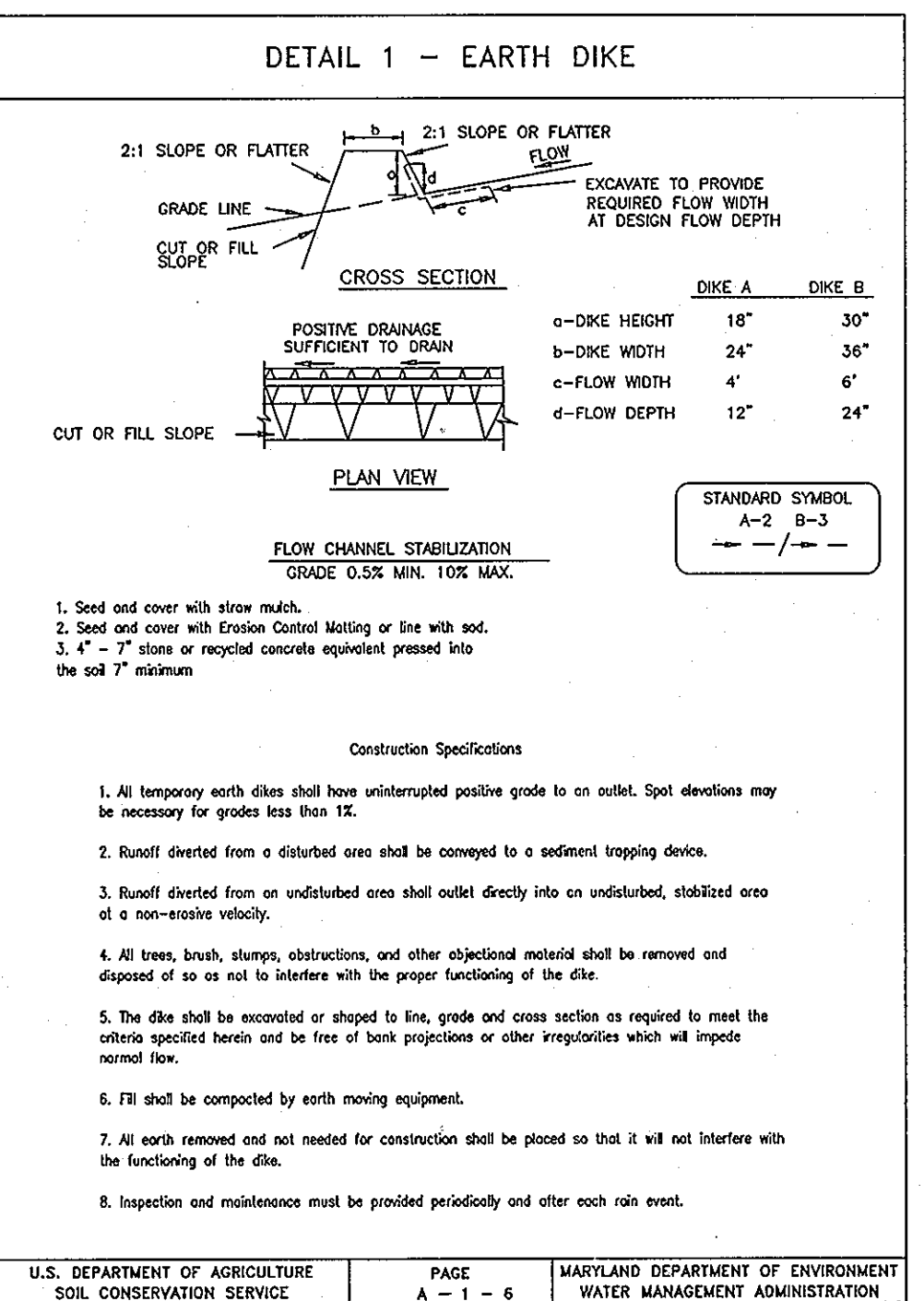
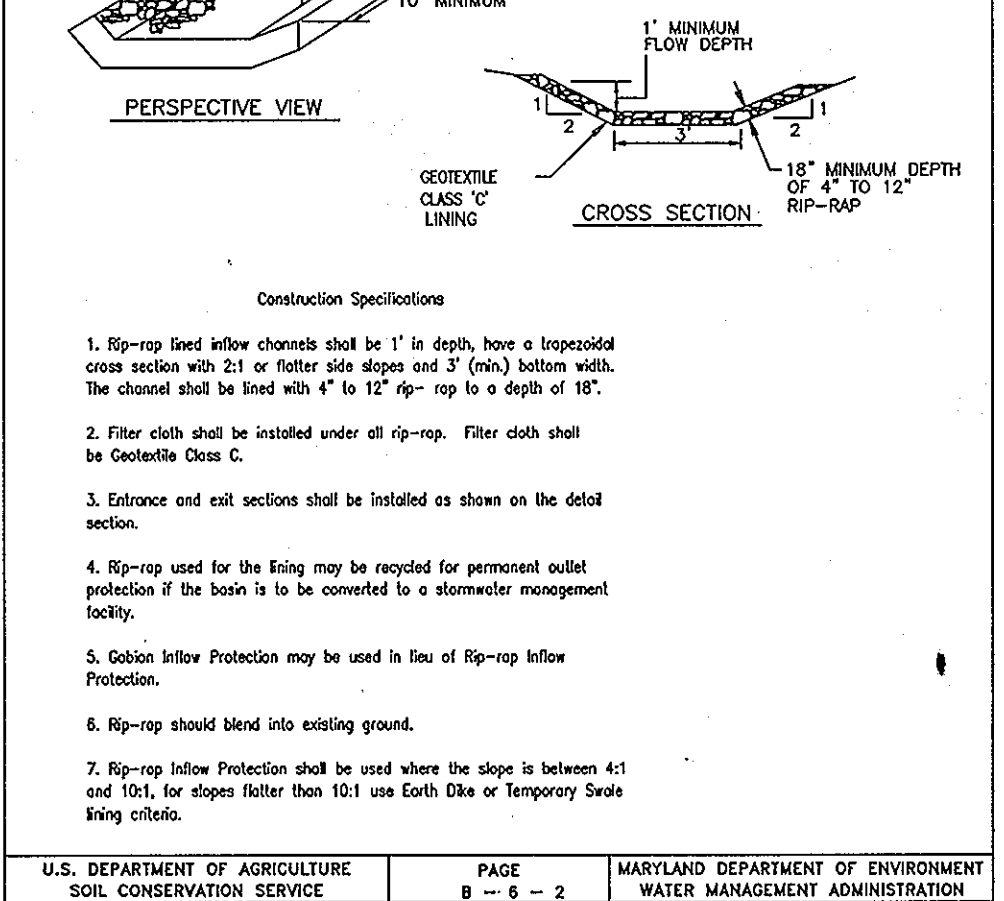
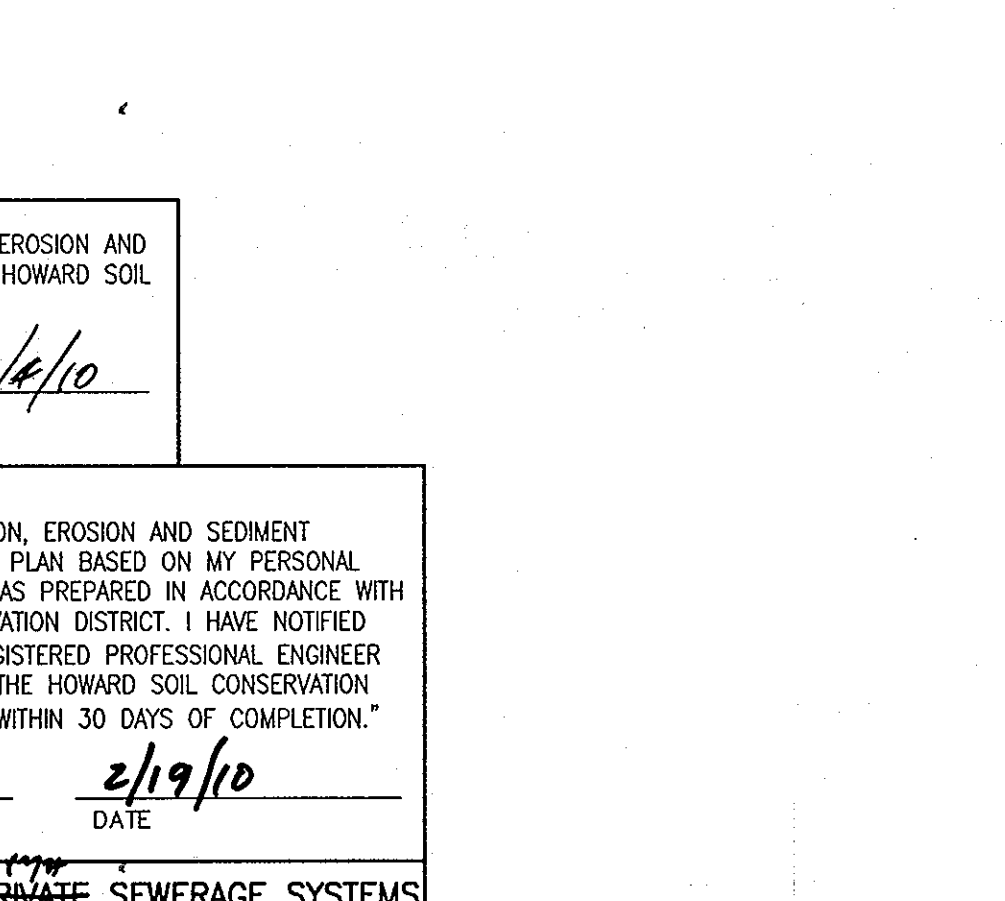
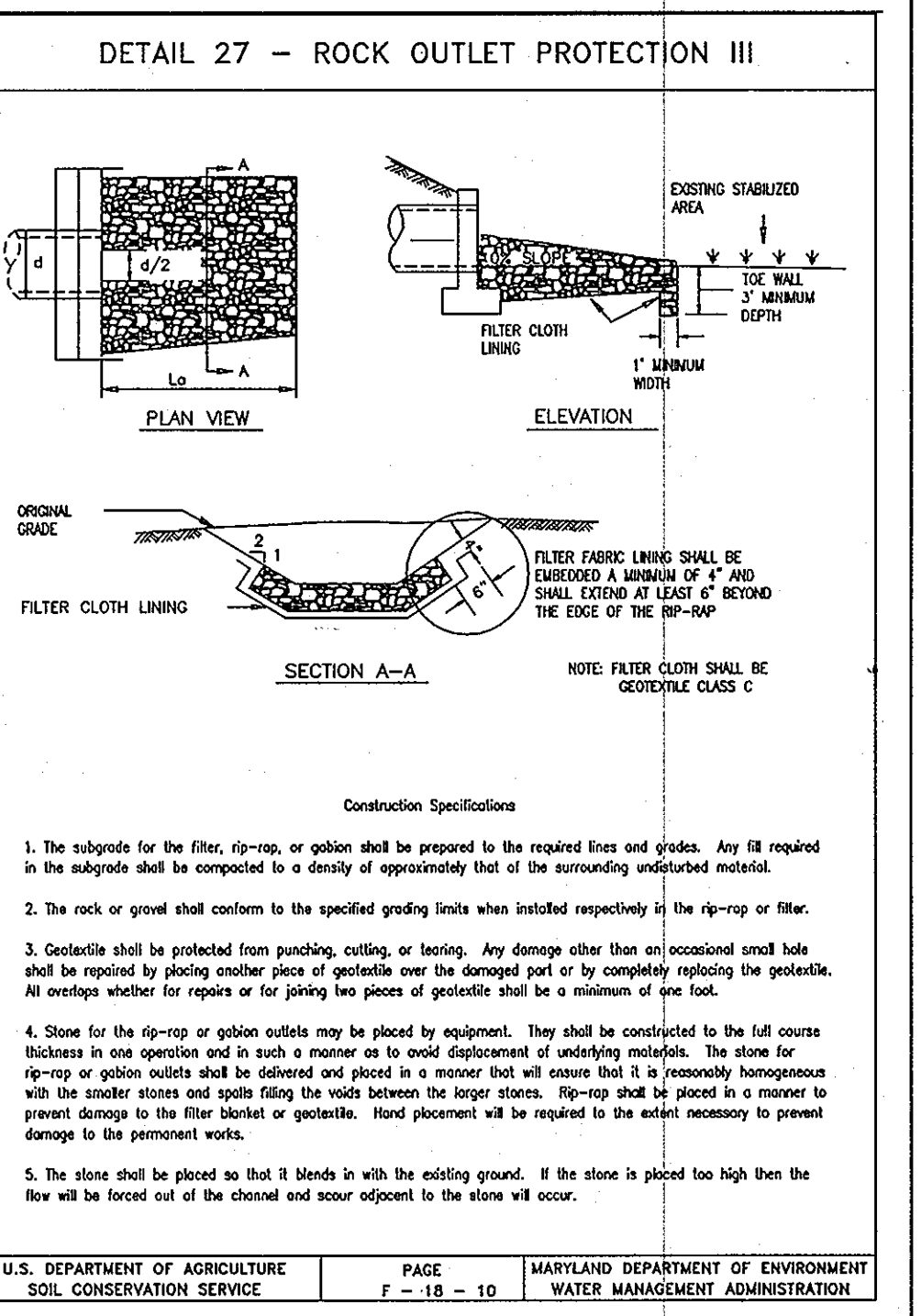
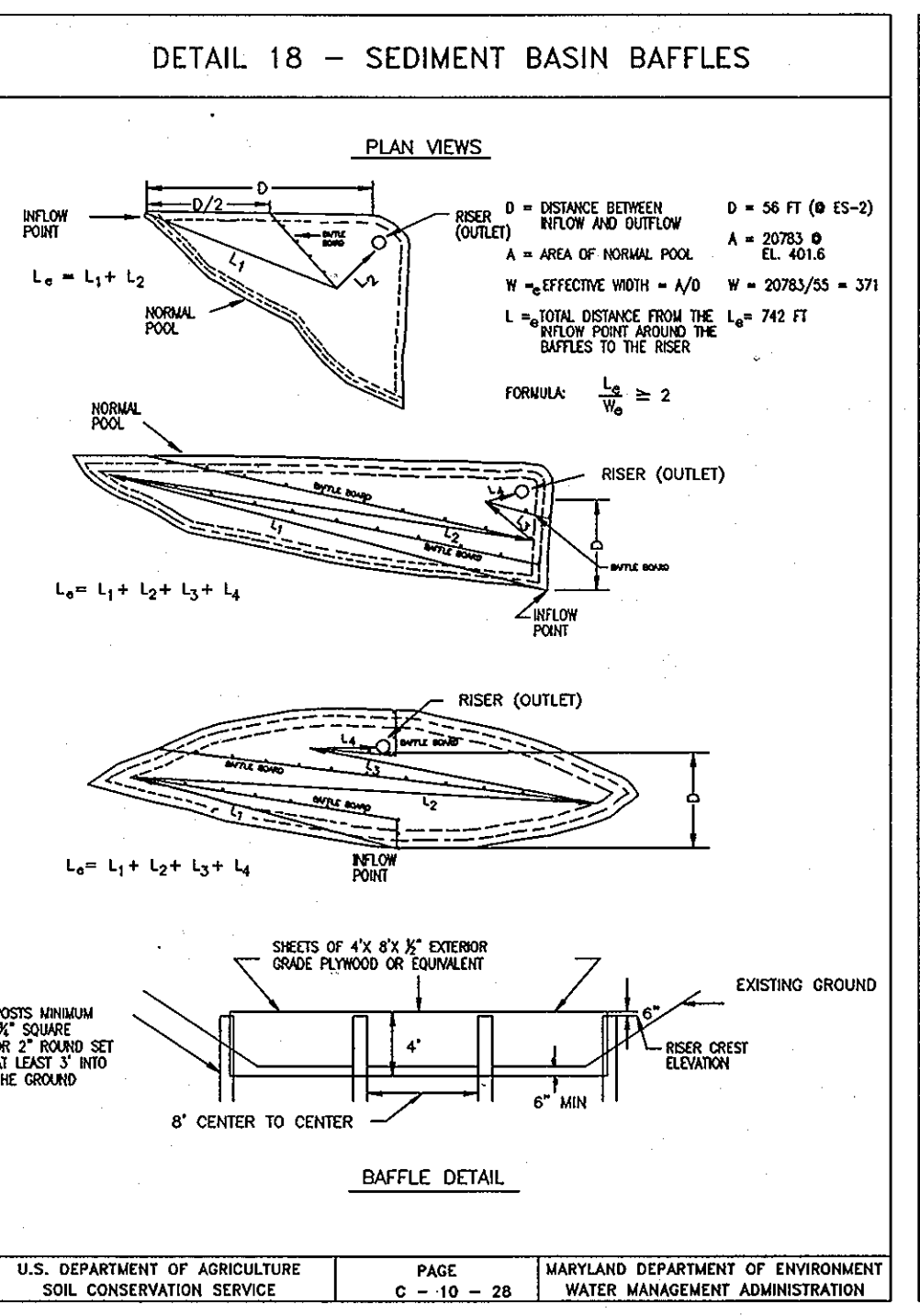
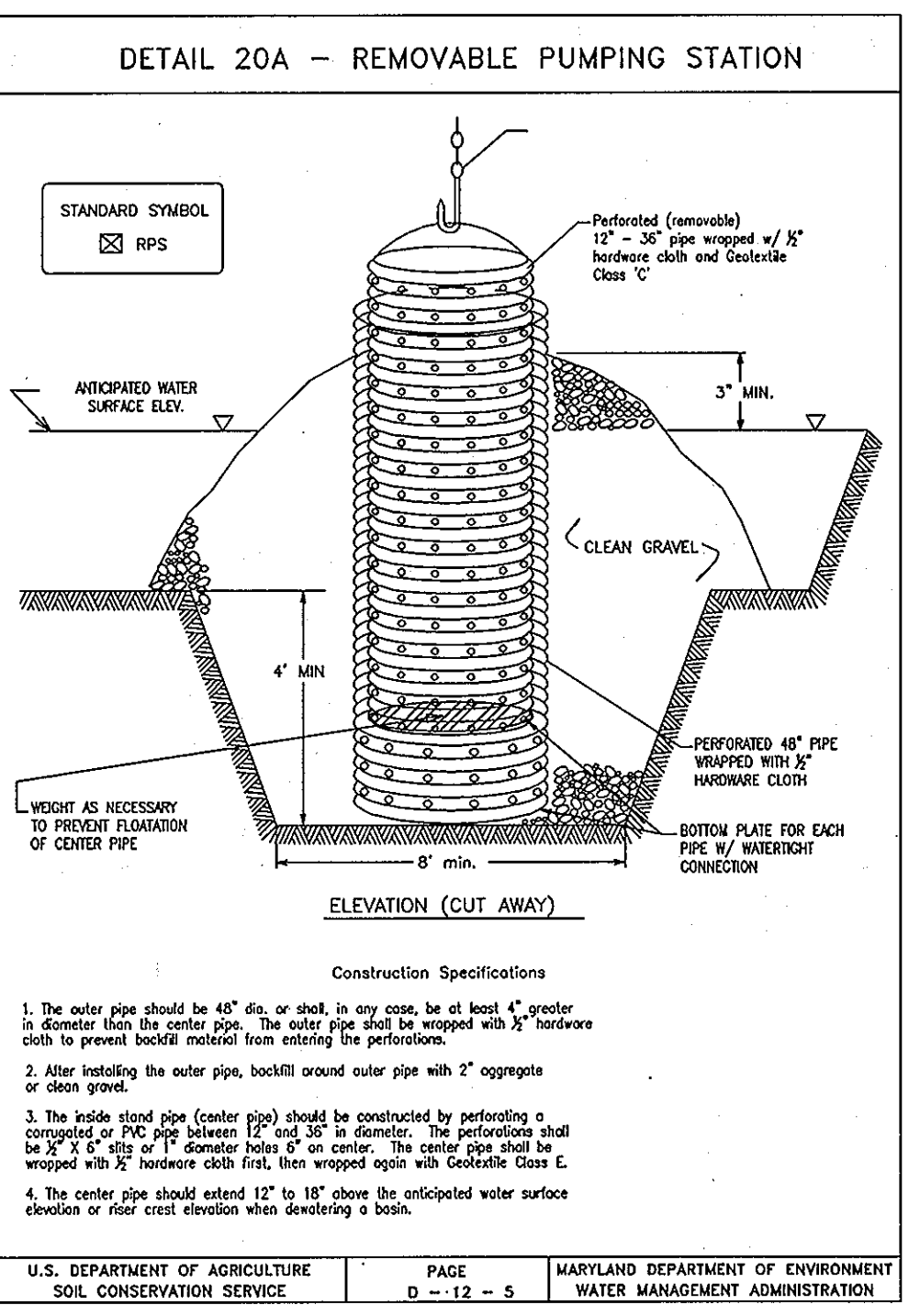
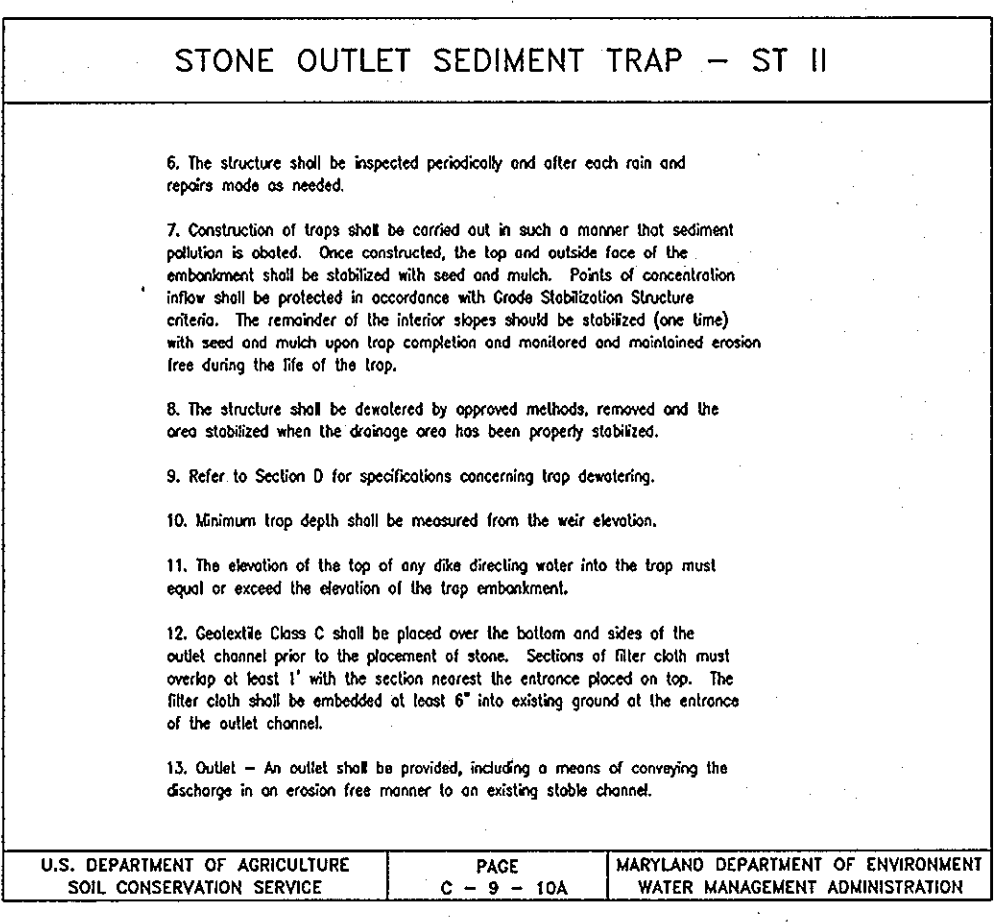
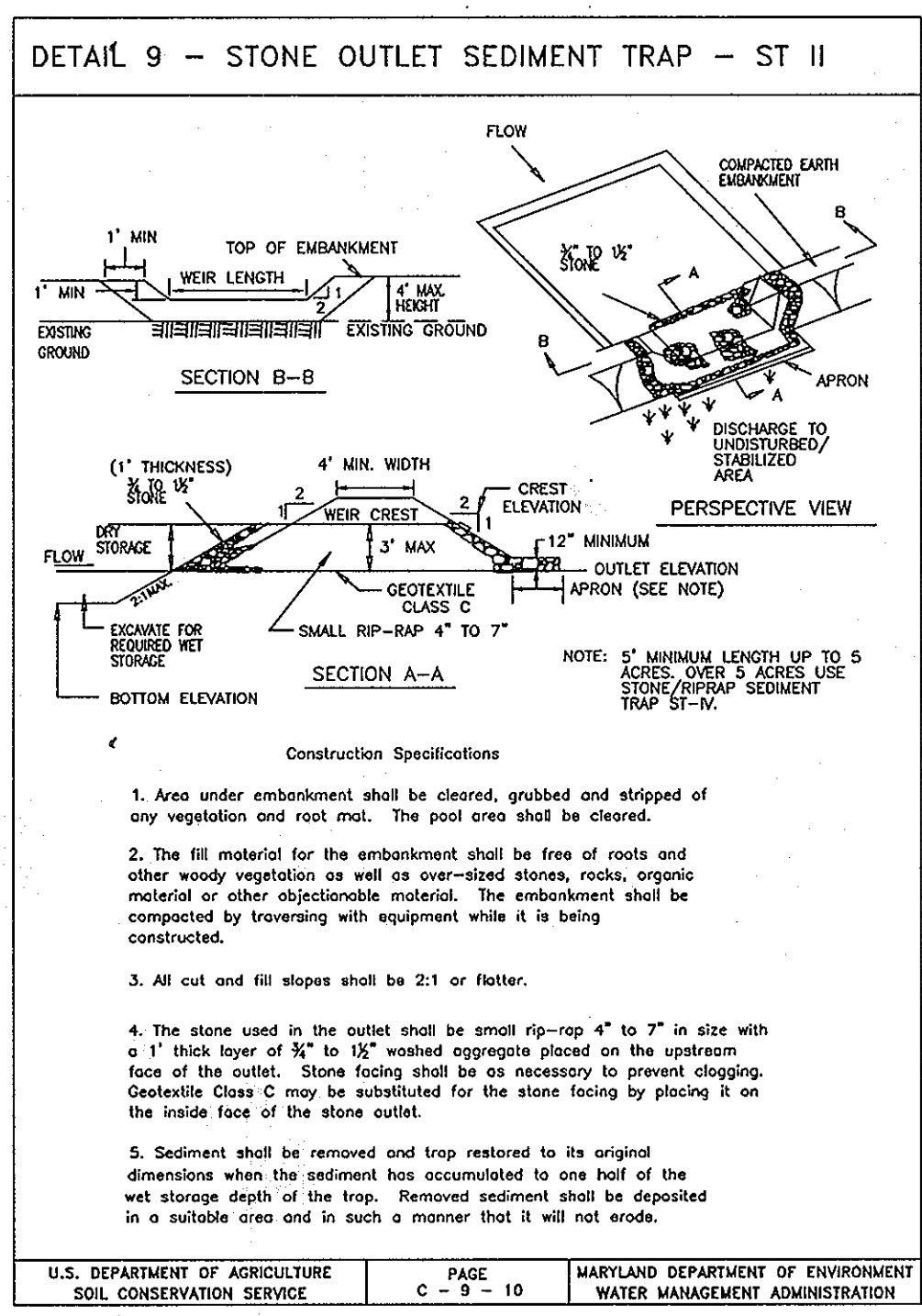
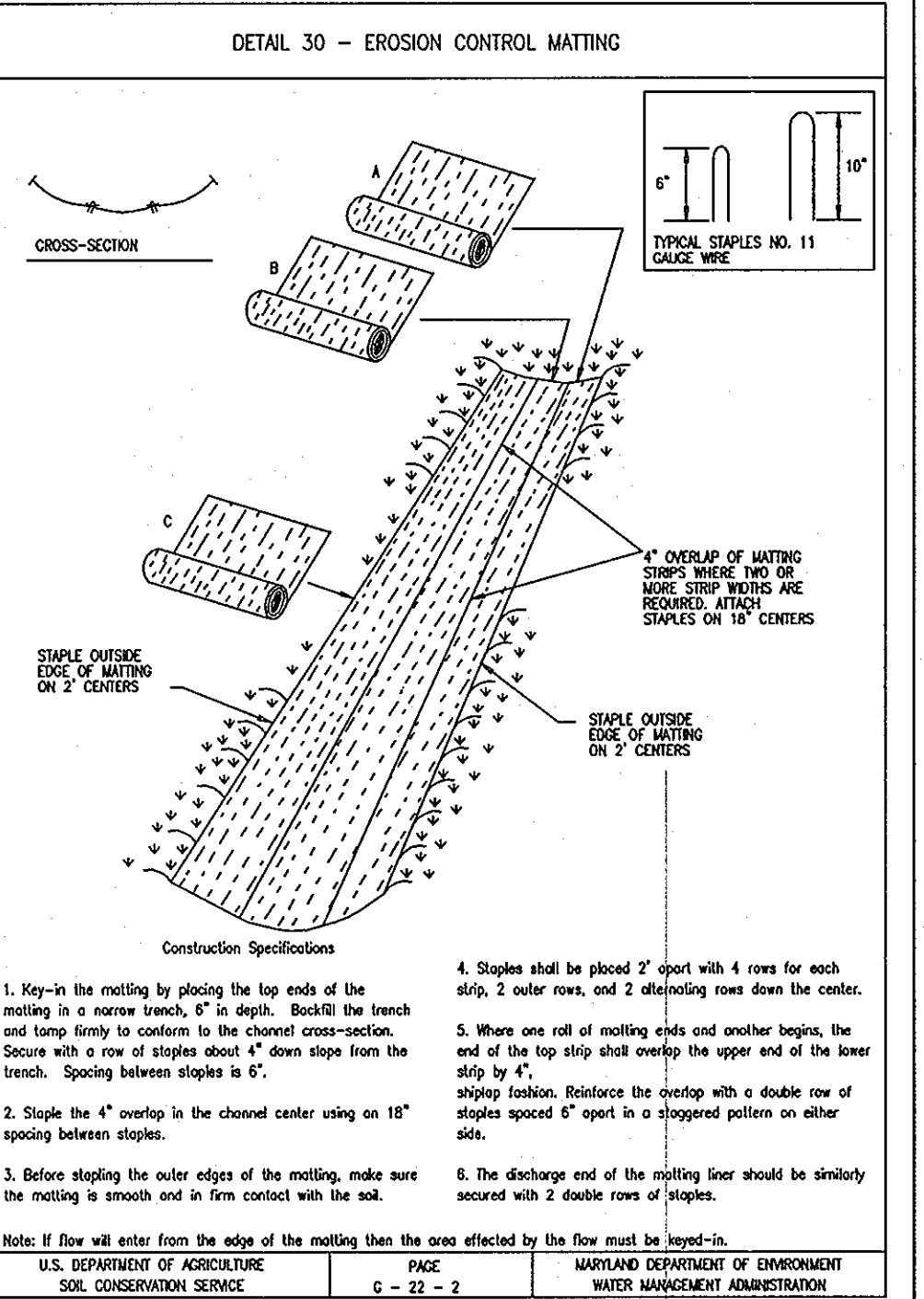
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE 15 - 3A MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



SUPER SILT FENCE

Slope	Slope Steepness	Slope Length (Minimum)	Silt Fence Length (Maximum)
0 - 10%	0 - 10:1	Unlimited	Unlimited
10 - 20%	10:1 - 5:1	200 feet	1,500 feet
20 - 33%	5:1 - 3:1	100 feet	1,000 feet
33 - 50%	3:1 - 2:1	100 feet	500 feet
50% +	2:1 +	50 feet	250 feet

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE 17 - 3A MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



REVISIONS

NO.	DATE	DESCRIPTION

HOWARD COUNTY
DEPARTMENT OF RECREATION AND PARKS
 7120 OAKLAND MILLS ROAD
 COLUMBIA, MD 21046

DEPARTMENT OF PUBLIC WORKS
 9250 BENDIX ROAD
 ELLICOTT CITY, MD 21043



WHITMAN, REQUARDT & ASSOCIATES, LLP
 801 South Caroline Street, Baltimore, Maryland 21231
 Phone: 410-235-3450 Fax: 410-243-5716

PROPERTY

TAX MAP 36, GRID 5, PARCEL 3,72

ZONING: RC-DEO

ELECTION DISTRICT 3/7

GRAPHIC SCALES

SIGNATURE

STATE OF MARYLAND
 DEPARTMENT OF ENVIRONMENT
 PROFESSIONAL ENGINEER

Anthony U. Olson

PROFESSIONAL CERTIFICATION:
 HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19376
 EXPIRATION DATE: 09/22/2011

BLANDAIR REGIONAL PARK - PHASE 1

EROSION AND SEDIMENT CONTROL - DETAILS

Drawing No. **C5.3**

Scale: NONE

Date: 02/19/10 Sheet 33 of 51

Des: RBC Drawn: CJK Check: AUO

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Anthony U. Olson 3/4/10
 HOWARD SOIL CONSERVATION DISTRICT DATE

ENGINEER'S CERTIFICATION

I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL, REPRESENTS A PRACTICAL AND WORKABLE PLAN 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.

Anthony U. Olson 2/19/10
 SIGNATURE OF ENGINEER DATE
 (PRINT NAME BELOW SIGNATURE) Anthony U. Olson

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS PUBLIC

B. Nijon for Peter Beilman 3/31/2010
 COUNTY HEALTH OFFICER DATE
 HOWARD COUNTY HEALTH DEPARTMENT JOB 1798

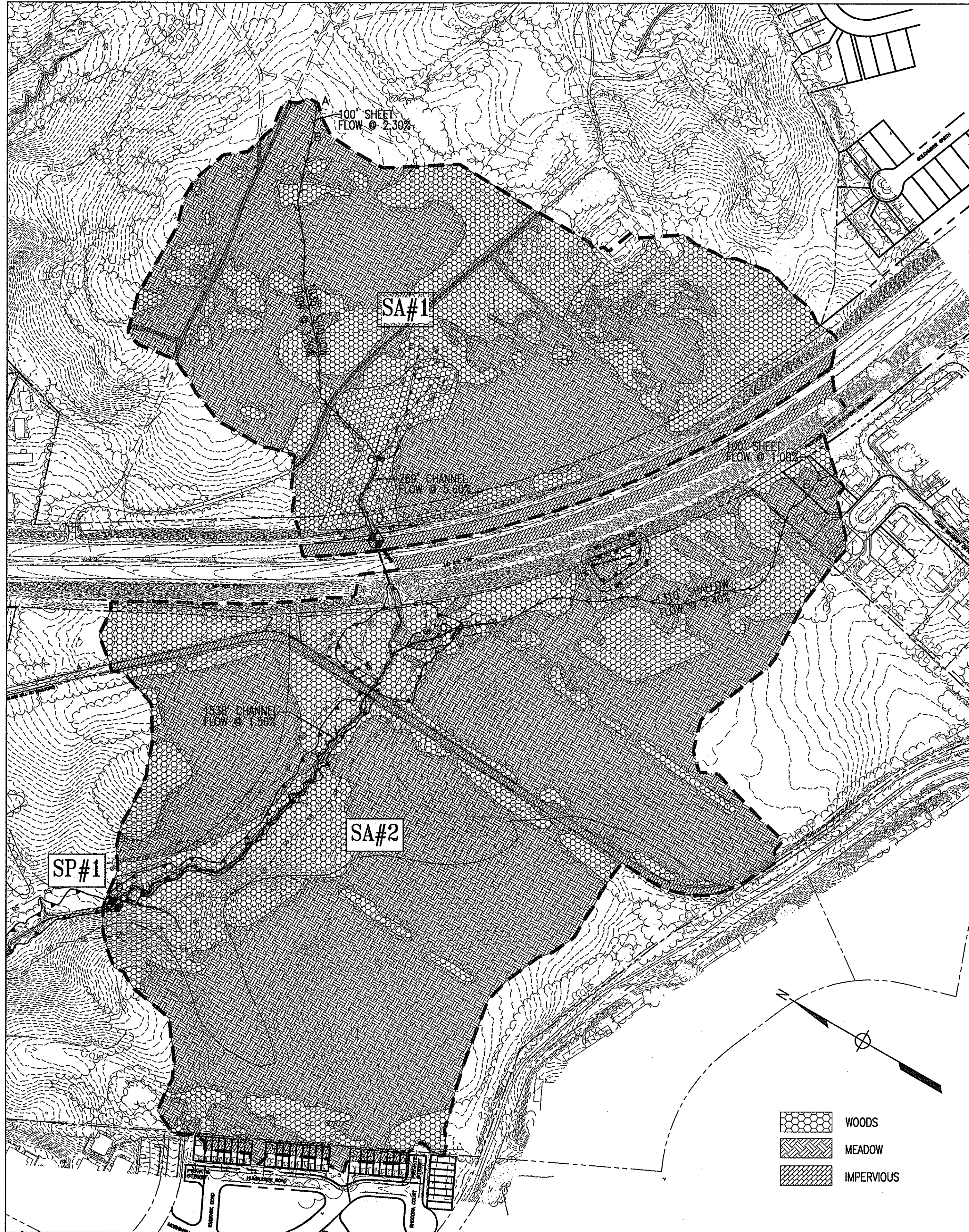
APPROVED: DEPARTMENT OF PLANNING AND ZONING

Thomas J. Suttle 4/8/10
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE
 DIRECTOR

DEVELOPER'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 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.

Ronald G. Lepson 2/22/10
 SIGNATURE OF DEVELOPER DATE
 (PRINT NAME BELOW SIGNATURE) Ronald G. Lepson

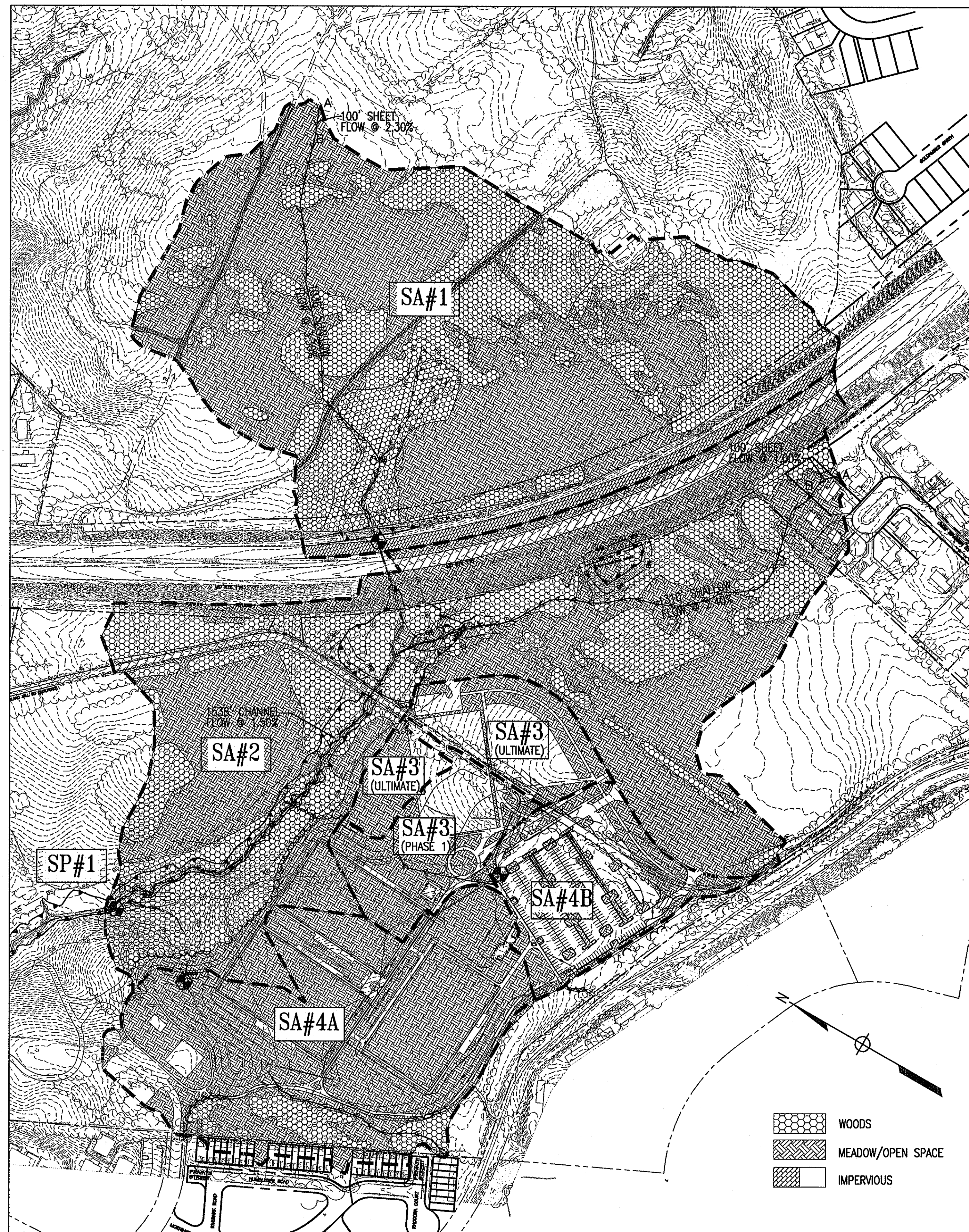


EXISTING DRAINAGE AREA
1" = 200'

Soil Symbol	HSG	Soil Description
GnB	C	Glenville-Baile silt loams, 0-8% slopes
GgB	B	Glenelg loam, 3-8% slopes
GhB	B	Glenelg-Urban land complex, 0-8% slopes
MaC	B	Manor loam, 8-15% slopes
RuB	C	Russett and Beltsville soils, 2-5% slopes

APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature] DATE: 3/9/10
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
[Signature] DATE: 4/20/10
 CHIEF, DIVISION OF LAND DEVELOPMENT
[Signature] DATE: 4/8/10
 DIRECTOR

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS
[Signature] DATE: 3/31/2010
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT



PROPOSED DRAINAGE AREA
1" = 200'

STUDY ID	EXISTING CONDITIONS				PROPOSED CONDITIONS				ULTIMATE CONDITIONS			
	DA (ac)	tc (in)	Impervious (ac)	RCN	DA (ac)	tc (in)	Impervious (ac)	RCN	DA (ac)	tc (in)	Impervious (ac)	RCN
SA 1	38.92	0.34	1.99	61	38.92	0.34	1.99	61	38.92	0.34	1.99	61
SA 2	69.17	0.43	3.02	67	45.85	0.43	1.89	71	41.3	0.43	1.89	70
SA 3	-	-	-	-	4.34	0.18	0.55	69	8.75	0.18	4.05	83
SA 4A	-	-	-	-	15.24	0.20	1.62	67	16.53	0.20	2.69	67
SA 4B	-	-	-	-	4.22	0.10	2.71	85	5.94	0.10	3.82	86
SP 1	108.09	-	5.01	-	108.57	-	8.76	-	111.44	-	14.44	-

STUDY ID	EXISTING CONDITIONS				PROPOSED CONDITIONS				ULTIMATE CONDITIONS			
	1-yr	2-yr	10-yr	100-yr	1-yr	2-yr	10-yr	100-yr	1-yr	2-yr	10-yr	100-yr
SA 1	4.22	12.00	53.17	112.00	4.22	12.00	53.17	112.00	4.22	12.00	53.17	112.00
SA 2	17.79	35.95	112.23	213.46	18.58	32.91	88.71	159.51	15.10	27.51	79.65	139.65
SA 3	-	-	-	-	2.16	3.98	11.12	20.28	11.58	16.48	32.80	51.49
SA 4A	-	-	-	-	4.63	9.72	31.47	60.96	6.49	12.54	37.51	70.48
SA 4B	-	-	-	-	7.90	10.92	20.81	31.81	11.68	15.95	29.95	45.42
POND	-	-	-	-	0.30	0.49	1.90	14.48	0.36	0.87	2.32	34.13
SP 1	22.00	47.82	164.74	324.64	23.99	47.25	150.60	288.70	28.24	53.30	159.67	319.59

REVISIONS

HOWARD COUNTY

DEPARTMENT OF RECREATION AND PARKS
 7120 OAKLAND MILLS ROAD
 COLUMBIA, MD 21046

DEPARTMENT OF PUBLIC WORKS
 9250 BENDIX ROAD
 ELLICOTT CITY, MD 21043

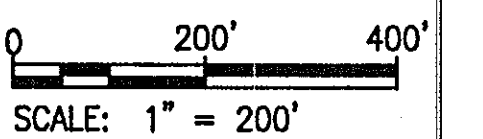


WHITMAN, REARDT & ASSOCIATES, LLP
 801 South Caroline Street, Baltimore, Maryland 21231
 Phone: 410-235-3450 Fax: 410-243-5716

PROPERTY

TAX MAP 36, GRID 5, PARCEL 3.72
 ZONING: RC-DEO
 ELECTION DISTRICT 3/7

GRAPHIC SCALES



SIGNATURE



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19376, EXPIRATION DATE: 09/22/2011

BLANDAIR REGIONAL PARK - PHASE 1

OVERALL DRAINAGE AREA MAPS

Drawing No.

C6.1

Scale: 1" = 200'

Date: 02/19/10 Sheet 36 of 51

Des: CYH Drawn: CYH Check: AUO

REVISIONS	

HOWARD COUNTY

DEPARTMENT OF RECREATION AND PARKS
7120 OAKLAND MILLS ROAD
COLUMBIA, MD 21046

DEPARTMENT OF PUBLIC WORKS
9250 BENDIX ROAD
ELLICOTT CITY, MD 21043



WHITMAN, REQUARDT & ASSOCIATES, LLP
801 South Caroline Street, Baltimore, Maryland 21231
Phone: 410-235-3450 Fax: 410-243-8716

PROPERTY
TAX MAP 36, GRID 5, PARCEL 3,72
ZONING: RC-DEO
ELECTION DISTRICT 3/7

GRAPHIC SCALES
0 50' 100' 200'
SCALE: 1" = 100'

SIGNATURE

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EXPIRATION DATE: 09/22/2011

BLANDAIR REGIONAL PARK - PHASE 1

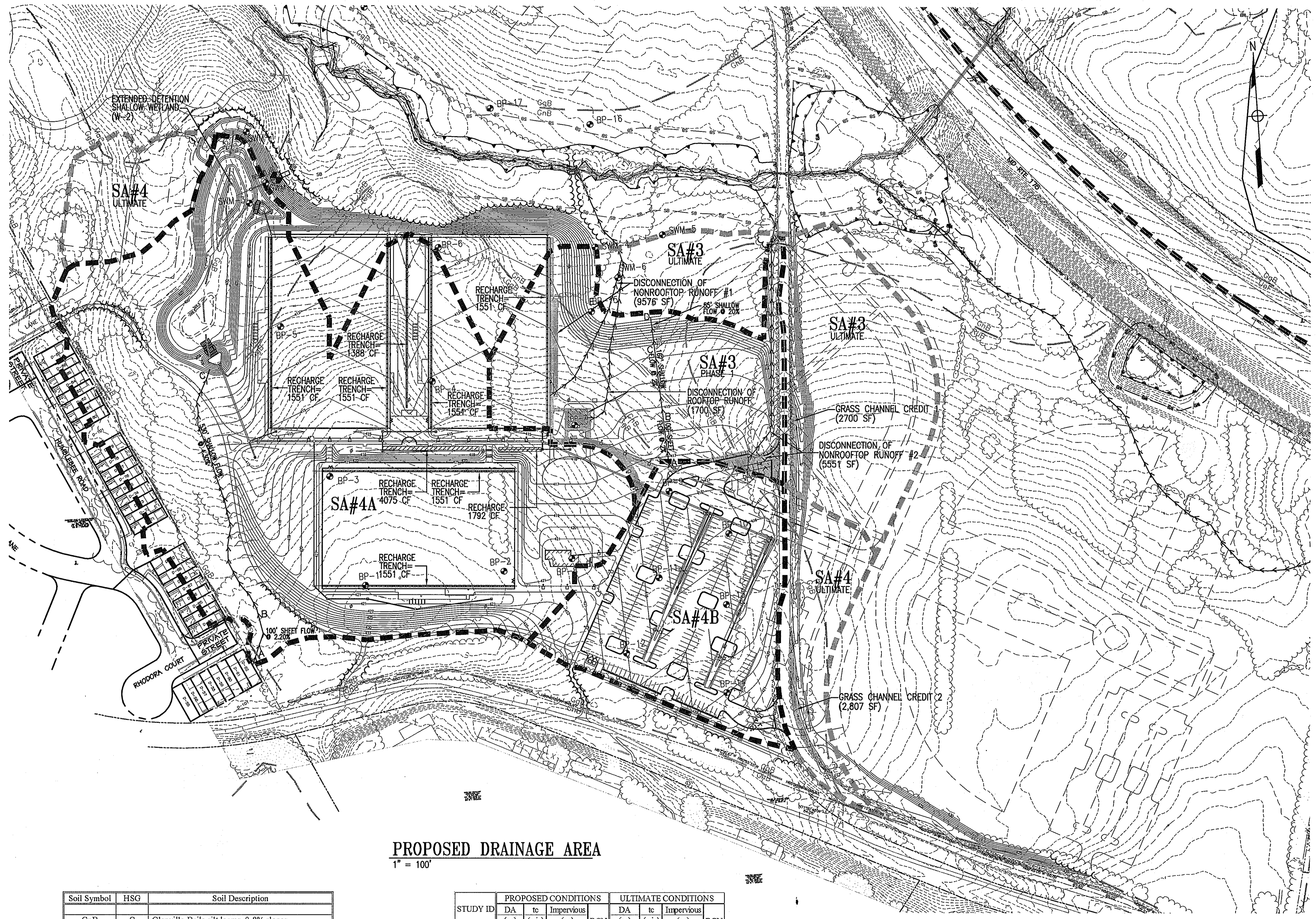
STORMWATER DRAINAGE AREA PLAN

Drawing No. **C6.2**

Scale: 1" = 100'

Date: 02/19/10 Sheet 37 of 51

Des: CYH Drawn: CYH Check: AUO



PROPOSED DRAINAGE AREA
1" = 100'

Soil Symbol	HSG	Soil Description
GnB	C	Glenville-Baile silt loams, 0-8% slopes
GgB	B	Glenelg loam, 3-8% slopes
GhB	B	Glenelg-Urban land complex, 0-8% slopes
MaC	B	Manor loam, 8-15% slopes
RuB	C	Russett and Beltsville soils, 2-5% slopes

STUDY ID	PROPOSED CONDITIONS				ULTIMATE CONDITIONS			
	DA (ac)	tc (min)	Impervious (ac)	RCN	DA (ac)	tc (min)	Impervious (ac)	RCN
SA 3	4.34	0.18	0.55	69	8.75	0.18	4.05	83
SA 4A	15.24	0.20	1.62	67	16.53	0.20	2.69	67
SA 4B	4.22	0.10	2.71	85	5.94	0.10	3.82	86

DISCONNECTION CREDIT SUMMARY (SHADED AREAS)

	AREA (SF)	DISCONNECTION LENGTH (FT)	AVG. SLOPE
NON-ROOFTOP DISCONNECTION CREDIT #1	9576	510	5.0%
NON-ROOFTOP DISCONNECTION CREDIT #2	5551	597	3.4%
ROOFTOP DISCONNECTION CREDIT	1700	541	5.0%

GRASS CHANNEL CREDIT #1 2700 AC: WATER QUALITY STORM, V=0.82FPS
GRASS CHANNEL CREDIT #2 2807 AC: WATER QUALITY STORM, V=0.93FPS

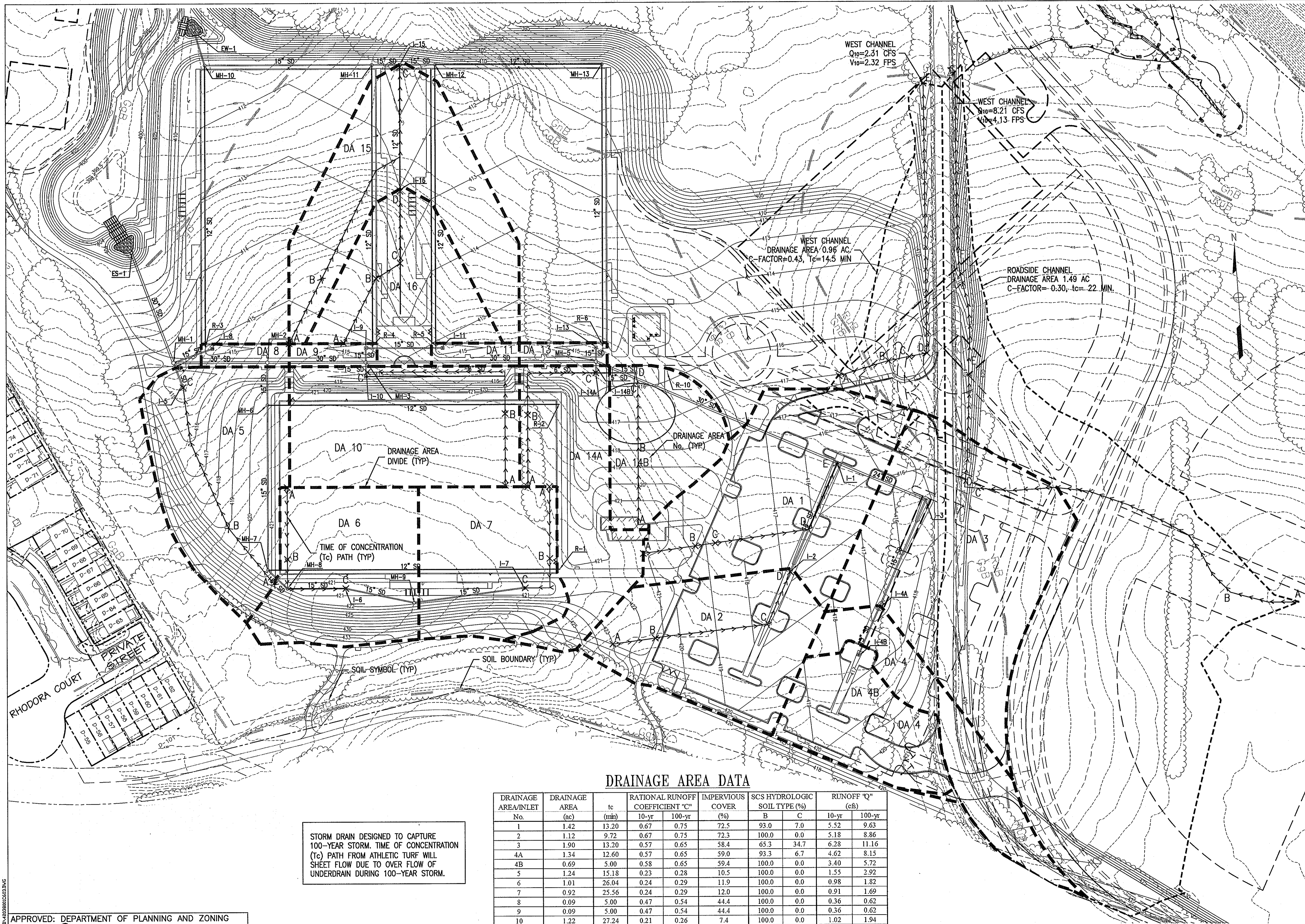
APPROVED: DEPARTMENT OF PLANNING AND ZONING

 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 3/1/10

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS

 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT
 DATE: 3/31/2010

FILENAME: H:\4288-00\CAD\4288000000\428810.DWG



STORM DRAIN DESIGNED TO CAPTURE 100-YEAR STORM. TIME OF CONCENTRATION (Tc) PATH FROM ATHLETIC TURF WILL SHEET FLOW DUE TO OVER FLOW OF UNDERDRAIN DURING 100-YEAR STORM.

DRAINAGE AREA DATA

DRAINAGE AREA/INLET No.	DRAINAGE AREA (ac)	tc (min)	RATIONAL RUNOFF COEFFICIENT "C"		IMPERVIOUS COVER (%)	SCS HYDROLOGIC SOIL TYPE (%)		RUNOFF "Q" (cfs)	
			10-yr	100-yr		B	C	10-yr	100-yr
1	1.42	13.20	0.67	0.75	72.5	93.0	7.0	5.52	9.63
2	1.12	9.72	0.67	0.75	72.3	100.0	0.0	5.18	8.86
3	1.90	13.20	0.57	0.65	58.4	65.3	34.7	6.28	11.16
4A	1.34	12.60	0.57	0.65	59.0	93.3	6.7	4.62	8.15
4B	0.69	5.00	0.58	0.65	59.4	100.0	0.0	3.40	5.72
5	1.24	15.18	0.23	0.28	10.5	100.0	0.0	1.55	2.92
6	1.01	26.04	0.24	0.29	11.9	100.0	0.0	0.98	1.82
7	0.92	25.56	0.24	0.29	12.0	100.0	0.0	0.91	1.69
8	0.09	5.00	0.47	0.54	44.4	100.0	0.0	0.36	0.62
9	0.09	5.00	0.47	0.54	44.4	100.0	0.0	0.36	0.62
10	1.22	27.24	0.21	0.26	7.4	100.0	0.0	1.02	1.94
11	0.09	5.00	0.47	0.54	44.4	100.0	0.0	0.36	0.62
13	0.09	5.00	0.47	0.54	44.4	100.0	0.0	0.36	0.62
14A	1.70	26.52	0.25	0.30	12.9	100.0	0.0	1.63	2.75
14B	0.65	8.24	0.19	0.24	4.6	100.0	0.0	1.12	1.73
15	1.29	21.18	0.20	0.25	6.2	100.0	0.0	1.18	2.25
16	0.86	19.26	0.36	0.41	27.9	100.0	0.0	1.50	2.61

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division
 Chief, Division of Land Development
 Director

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS
 County Health Officer
 Howard County Health Department

REVISIONS

HOWARD COUNTY
 DEPARTMENT OF RECREATION AND PARKS
 7120 OAKLAND MILLS ROAD
 COLUMBIA, MD 21046
 DEPARTMENT OF PUBLIC WORKS
 9250 BENDIX ROAD
 ELLICOTT CITY, MD 21043

WR&A
 WHITMAN, REQUARDT & ASSOCIATES, LLP
 801 South Caroline Street, Baltimore, Maryland 21231
 Phone: 410-259-3450 Fax: 410-243-6716

PROPERTY
 TAX MAP 36, GRID 5, PARCEL 3.72
 ZONING: RC-DEO
 ELECTION DISTRICT 3/7

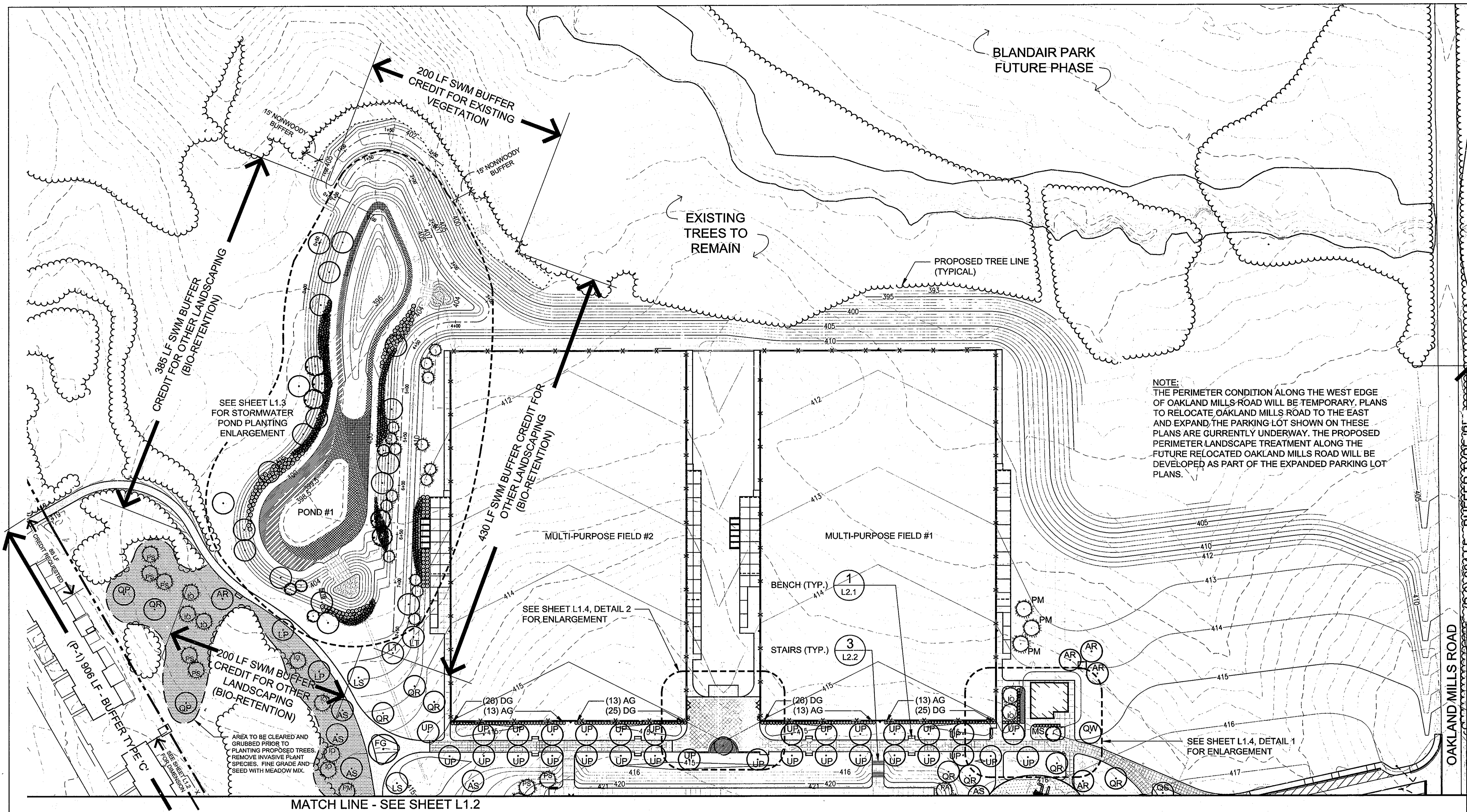
GRAPHIC SCALES
 0 30' 60' 120'
 SCALE: 1" = 60'

SIGNATURE

PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 19376
 EXPIRATION DATE: 09/22/2011

BLANDAIR REGIONAL PARK - PHASE 1

INLET DRAINAGE AREA MAP
 Drawing No. C6.3
 Scale: 1" = 60'
 Date: 02/19/10 Sheet 38 of 51
 Des: MAT Drawn: MAT Check: AUO



REVISIONS	

HOWARD COUNTY

DEPARTMENT OF RECREATION AND PARKS
7120 OAKLAND MILLS ROAD
COLUMBIA, MD 21046

DEPARTMENT OF PUBLIC WORKS
9250 BENDIX ROAD
ELLICOTT CITY, MD 21043

WR&A

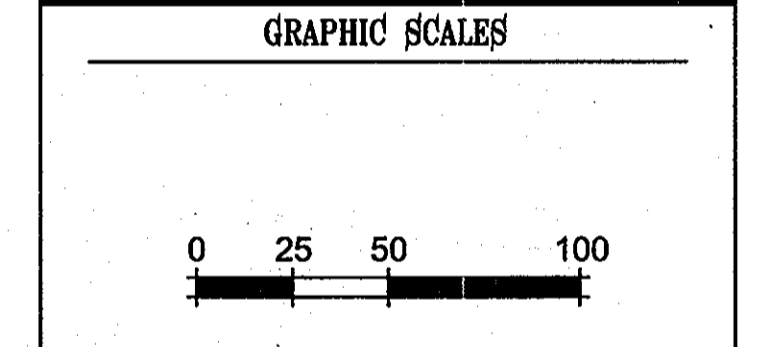
WHITMAN, REQUARDT & ASSOCIATES, LLP
801 South Caroline Street, Baltimore, Maryland 21201
Phone: 410-235-3450 Fax: 410-243-5716

PROPERTY

TAX MAP 36, GRID 5, PARCEL 3,72

ZONING: RC-DEO

ELECTION DISTRICT 3/7



SIGNATURE

BLANDAIR REGIONAL PARK - PHASE 1

Site Landscape Plan

Drawing No. **L1.1**

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 3/1/10
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

[Signature] 4/29/10
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

[Signature] 4/16/10
DIRECTOR DATE

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS

[Signature] 3/31/2010
COUNTY HEALTH OFFICER DATE

[Signature] 1/9/08
HOWARD COUNTY HEALTH DEPARTMENT DATE

PLANT LIST (THIS SHEET ONLY)

Qty.	Key	Botanical/Common Name	Size	Root	Comments	Qty.	Key	Botanical/Common Name	Size	Root	Comments
SHADE TREES											
5	AR	Acer rubrum 'Red Sunset' / Red Sunset Maple	2-1/2" Cal.	B&B	Full	9	IO	Ilex opaca / American Holly	6' Ht.	B&B	Full
5	AS	Acer saccharum 'Green Mountain' / Green Mountain Sugar Maple	2-1/2" Cal.	B&B	Full	1	PA	Picea abies / Norway Spruce	6' Ht.	B&B	Full
1	FG	Fagus grandifolia / American Beech	2-1/2" Cal.	B&B	Full	4	PM	Pseudotsuga menziesii / Douglas Fir	6' Ht.	B&B	Full
2	LP	Platanus acerifolia 'Bloodgood' / Bloodgood London Plane Tree	2-1/2" Cal.	B&B	Full	7	PS	Pinus strobus / White Pine	6' Ht.	B&B	Full
2	LS	Liquidambar styraciflua 'Rotundiloba' / Round Lobed Sweetgum	2-1/2" Cal.	B&B	Full	UNDERSTORY TREES					
2	LT	Liriodendron tulipifera / Tulip Tree	2-1/2" Cal.	B&B	Full	1	MS	Magnolia x soulangian / Saucer Magnolia	10' Ht.	B&B	Multi-Stem, Full
2	QP	Quercus palustris / Pin Oak	2-1/2" Cal.	B&B	Full	SHRUBS					
8	QR	Quercus rubra / Red Oak	2-1/2" Cal.	B&B	Full	52	AG	Abelia x 'Edward Goucher' / Edward Goucher Abelia	24" Spd./Ht.	#5	Full
1	QS	Quercus coccinea / Scarlet Oak	2-1/2" Cal.	B&B	Full	102	DG	Deutzia gracilis / Slender Deutzia	24" Spd./Ht.	#5	Full
1	QW	Quercus phellos / Willow Oak	2-1/2" Cal.	B&B	Full						
29	UP	Ulmus parvifolia 'Allee' / Allee Elm	2-1/2" Cal.	B&B	Full						

NOTE:

- FOR MINIMUM LANDSCAPE REQUIREMENT CHARTS (PERIMETER BUFFER, STORM WATER MANAGEMENT POND AND PARKING LOT), SEE SHEET L2.5
- ALL PLANT LOCATIONS TO BE MARKED IN THE FIELD AND APPROVED BY HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS REPRESENTATIVE PRIOR TO PLANTING.
- SEE SHEET L2.5 FOR PLANTING SCHEDULES.

SHADED TREES REPRESENT PLANTS REQUIRED BY HOWARD COUNTY LANDSCAPE MANUAL

[Signature]

MAHAN RYKIEL ASSOCIATES, INC.
Landscape Architecture, Urban Design, Planning
800 Wyman Park Drive, Suite 100, Baltimore, MD 21211 USA
Tel. 410.235.6001 Fax. 410.235.6002

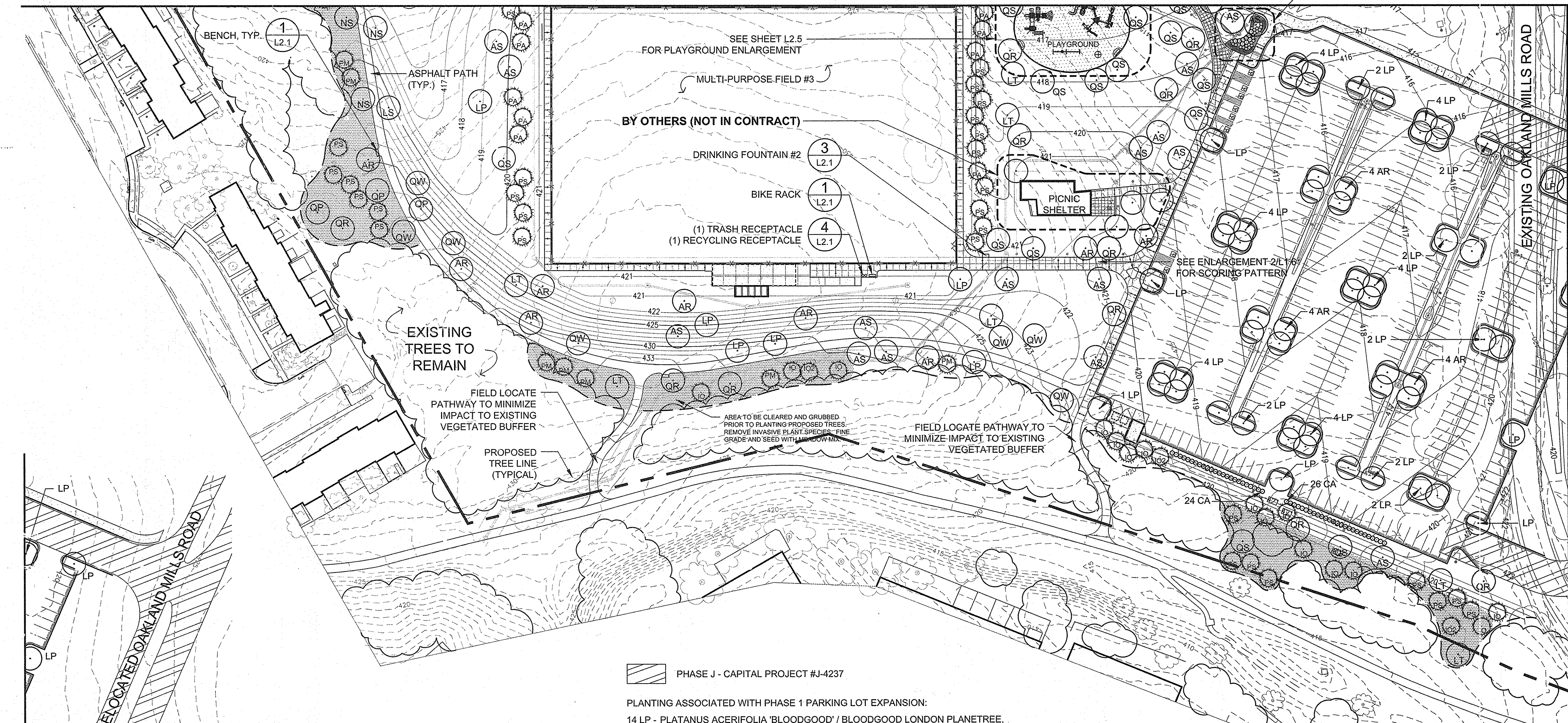
Scale: 1" = 50'

Date: 02/19/10 Sheet 39 of 51

Des: CB Drawn: NS Check: CB

MATCH LINE - SEE SHEET L1.1

SEE PLANTING ENLARGEMENT 3/L1.4



MATCH LINE - SEE THIS SHEET

MATCH LINE - SEE THIS SHEET

PHASE J - CAPITAL PROJECT #J-4237

PLANTING ASSOCIATED WITH PHASE 1 PARKING LOT EXPANSION:
14 LP - PLATANUS ACERIFOLIA 'BLOODGOOD' / BLOODGOOD LONDON PLANETREE,
SEE PLANT LIST BELOW FOR SIZE, ROOT, AND COMMENTS INFORMATION

PLANT LIST (THIS SHEET ONLY)

Qty.	Key	Botanical/Common Name	Size	Root	Comments	Qty.	Key	Botanical/Common Name	Size	Root	Comments
SHADE TREES						EVERGREEN TREES					
21	AR	Acer rubrum 'Red Sunset' / Red Sunset Maple	2-1/2" Cal.	B&B	Full canopy, central leader	15	IO	Ilex opaca 'Miss Helen' / Miss Helen American Holly	6' Ht.	B&B	Full / heavy
16	AS	Acer saccharum 'Legacy' / Legacy Sugar Maple	2-1/2" Cal.	B&B	Full canopy, central leader	3	IO2	Ilex opaca 'Jersey Knight' / Jersey Knight American Holly	6' Ht.	B&B	Full / heavy
40	LP	Platanus acerifolia 'Bloodgood' / Bloodgood London Plane Tree	2-1/2" Cal.	B&B	Full canopy, central leader	9	PA	Picea abies / Norway Spruce	6' Ht.	B&B	Full / heavy
1	LS	Liquidambar styraciflua 'Rotundiloba' / Round Lobed Sweetgum	2-1/2" Cal.	B&B	Full canopy, central leader	7	PM	Pseudotsuga menziesii / Douglas Fir	6' Ht.	B&B	Full / heavy
7	LT	Liriodendron tulipifera / Tulip Tree	2-1/2" Cal.	B&B	Full canopy, central leader	29	PS	Pinus strobus / White Pine	6' Ht.	B&B	Full
3	NS	Nyssa sylvatica / Sourwood	2-1/2" Cal.	B&B	Full canopy, central leader	SHRUBS					
3	QP	Quercus palustris / Pin Oak	2-1/2" Cal.	B&B	Full canopy, central leader	50	CA	Clethra alnifolia 'September Beauty' / September Beauty Summersweet	#7	Cont.	36" Spd., matched
12	QR	Quercus rubra / Red Oak	2-1/2" Cal.	B&B	Full canopy, central leader						
13	QS	Quercus coccinea / Scarlet Oak	2-1/2" Cal.	B&B	Full canopy, central leader						
7	QW	Quercus phellos / Willow Oak	2-1/2" Cal.	B&B	Full canopy, central leader						

NOTE:
1. ALL PLANT LOCATIONS TO BE MARKED IN THE FIELD AND APPROVED BY HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS REPRESENTATIVE PRIOR TO PLANTING.

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division
 DATE: 3-11-14

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 County Health Officer
 DATE: 4/28/2014

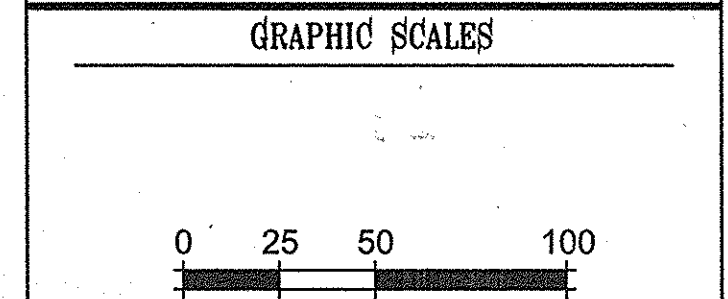
MAHAN RYKIEL ASSOCIATES, INC.
 Landscape Architecture, Urban Design, Planning
 800 Wyman Park Drive, Suite 100, Baltimore, MD 21211 USA
 Tel. 410.235.6001 Fax. 410.235.6002

REVISIONS	
PARKING EXPANSION	07/12/13
BID SET	07/09/10
BID REVIEW SET	05/28/10

HOWARD COUNTY
 DEPARTMENT OF RECREATION AND PARKS
 7120 OAKLAND MILLS ROAD
 COLUMBIA, MD 21046
 DEPARTMENT OF PUBLIC WORKS
 9250 BENDIX ROAD
 ELLICOTT CITY, MD 21043

WR&A
 WHITMAN, REQUARDT & ASSOCIATES, LLP
 801 South Caroline Street, Baltimore, Maryland 21231
 Phone: 410-235-9450 Fax: 410-243-5716

PROPERTY
 TAX MAP 36, GRID 5, PARCEL 3.72
 ZONING: RC-DEO
 ELECTION DISTRICT 3/7



SIGNATURE

BLANDAIR REGIONAL PARK - PHASE 1 SITE CONTRACT

Site Landscape Plan
 Drawing No. **L1.2**
 Scale: 1" = 50'
 Date: 07/09/2010 Sheet 40 of 65
 Des: CB Drawn: NS Check: CB

REVISIONS	

HOWARD COUNTY

DEPARTMENT OF RECREATION AND PARKS
7120 OAKLAND MILLS ROAD
COLUMBIA, MD 21046

DEPARTMENT OF PUBLIC WORKS
9250 BENDIX ROAD
ELLICOTT CITY, MD 21043



WHITMAN, REQUARDT & ASSOCIATES, LLP
801 South Caroline Street, Baltimore, Maryland 21231
Phone: 410-235-3450 Fax: 410-243-6716

PROPERTY
TAX MAP 36, GRID 5, PARCEL 3,72
ZONING: RC-DEO
ELECTION DISTRICT 3/7

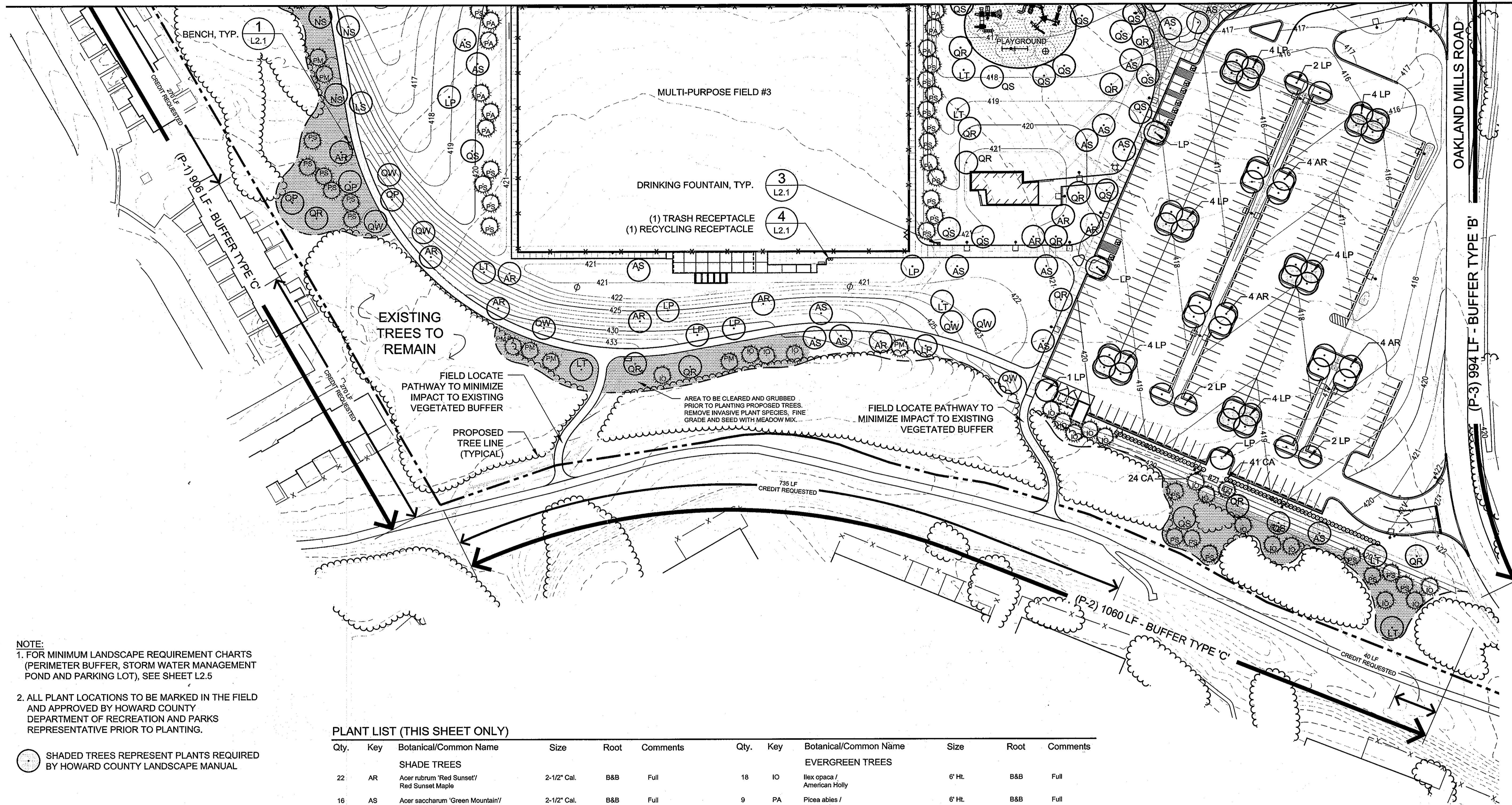
GRAPHIC SCALES
0 25 50 100

SIGNATURE

BLANDAIR REGIONAL PARK - PHASE 1

Site Landscape Plan		
Drawing No.		
L1.2		
Scale: 1" = 50'	Date: 02/19/10	Sheet 40 of 51
Des: CB	Drawn: NS	Check: CB

MATCH LINE - SEE SHEET L1.1



- NOTE:**
- FOR MINIMUM LANDSCAPE REQUIREMENT CHARTS (PERIMETER BUFFER, STORM WATER MANAGEMENT POND AND PARKING LOT), SEE SHEET L2.5
 - ALL PLANT LOCATIONS TO BE MARKED IN THE FIELD AND APPROVED BY HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS REPRESENTATIVE PRIOR TO PLANTING.

SHADED TREES REPRESENT PLANTS REQUIRED BY HOWARD COUNTY LANDSCAPE MANUAL

PLANT LIST (THIS SHEET ONLY)

Qty.	Key	Botanical/Common Name	Size	Root	Comments	Qty.	Key	Botanical/Common Name	Size	Root	Comments
SHADE TREES						EVERGREEN TREES					
22	AR	Acer rubrum 'Red Sunset' / Red Sunset Maple	2-1/2" Cal.	B&B	Full	18	IO	Ilex opaca / American Holly	6' Ht.	B&B	Full
16	AS	Acer saccharum 'Green Mountain' / Green Mountain Sugar Maple	2-1/2" Cal.	B&B	Full	9	PA	Picea abies / Norway Spruce	6' Ht.	B&B	Full
40	LP	Platanus acerifolia 'Bloodgood' / Bloodgood London Plane Tree	2-1/2" Cal.	B&B	Full	7	PM	Pseudotsuga menziesii / Douglas Fir	6' Ht.	B&B	Full
1	LS	Liquidambar styraciflua 'Rotundiloba' / Round Lobed Sweetgum	2-1/2" Cal.	B&B	Full	29	PS	Pinus strobus / White Pine	6' Ht.	B&B	Full
7	LT	Liriodendron tulipifera / Tulip Tree	2-1/2" Cal.	B&B	Full	SHRUBS					
3	NS	Nyssa sylvatica / Sourwood	2-1/2" Cal.	B&B	Full	65	CA	Clethra alnifolia 'September Beauty' / September Beauty Summersweet	36" Spd./Ht.	#3	Full
3	QP	Quercus palustris / Pin Oak	2-1/2" Cal.	B&B	Full						
14	QR	Quercus rubra / Red Oak	2-1/2" Cal.	B&B	Full						
14	QS	Quercus coccinea / Scarlet Oak	2-1/2" Cal.	B&B	Full						
7	QW	Quercus phellos / Willow Oak	2-1/2" Cal.	B&B	Full						

NOTE:
THE PERIMETER CONDITION ALONG THE WEST EDGE OF OAKLAND MILLS ROAD WILL BE TEMPORARY. PLANS TO RELOCATE OAKLAND MILLS ROAD TO THE EAST AND EXPAND THE PARKING LOT SHOWN ON THESE PLANS ARE CURRENTLY UNDERWAY. THE PROPOSED PERIMETER LANDSCAPE TREATMENT ALONG THE FUTURE RELOCATED OAKLAND MILLS ROAD WILL BE DEVELOPED AS PART OF THE EXPANDED PARKING LOT PLANS.

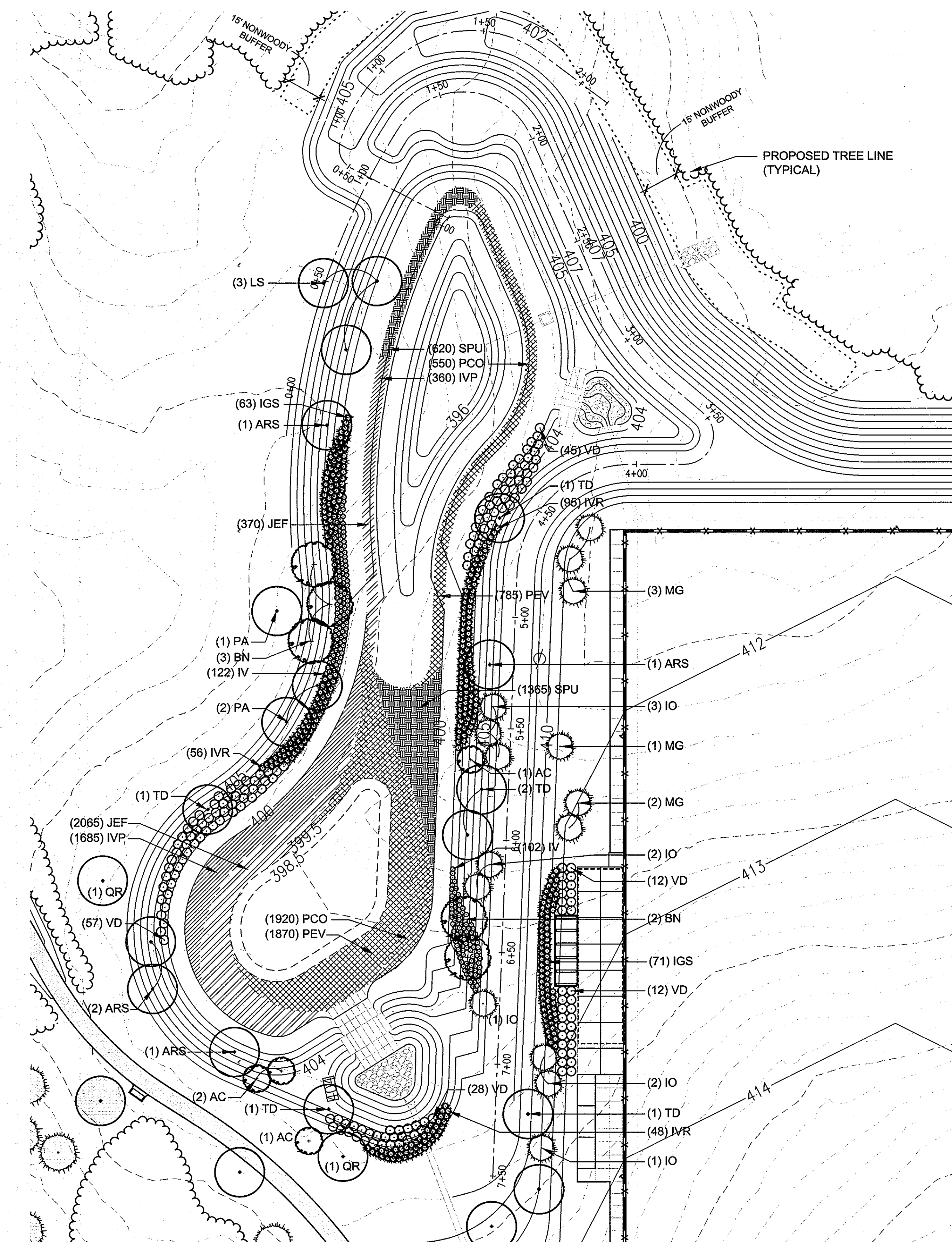
APPROVED: DEPARTMENT OF PLANNING AND ZONING

 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 3/9/10

APPROVED: FOR PUBLIC WATER AND SEWERAGE SYSTEMS

 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT
 DATE: 3/31/2010

MAHAN RYKIEL ASSOCIATES, INC.
 Landscape Architecture, Urban Design, Planning
 800 Wyman Park Drive, Suite 100, Baltimore, MD 21211 USA
 Tel. 410.236.8001 Fax. 410.236.8002



1 Stormwater Management Pond A Planting Plan

1"=30'

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 3/1/10

 CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE: 4/09/10

 DIRECTOR
 DATE: 4/1/10

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS

COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT
 DATE: 3/31/2010

 PUBLIC HEALTH OFFICER
 DATE: 1/9/10

PLANT LIST (THIS SHEET ONLY)

Qty.	Key	Botanical/Common Name	Size	Root	Comments
SHADE TREES					
5	ARS	Acer rubrum 'Red Sunset' / Red Sunset Maple	2-1/2" Cal.	B+B	Central Leader, Full Canopy
3	LS	Liquidambar styraciflua 'Rotundiloba' / Round Lobed Sweetgum	2-1/2" Cal.	B+B	Central Leader, Full Canopy
3	PA	Platanus x acerifolia 'Bloodgood' / Bloodgood Planetree	2-1/2" Cal.	B+B	Central Leader, Full Canopy
6	TD	Taxodium distichum / Bald Cypress	2-1/2" Cal.	B+B	Central Leader, Full Canopy
1	QR	Quercus rubra / Red Oak	2-1/2" Cal.	B+B	Central Leader, Full Canopy
EVERGREEN TREES					
9	IO	Ilex opaca 'Jersey Princess' / Jersey Princess American Holly	8' Ht.	B+B	Full to Base, Central Leader
7	MG	Metasequoia glyptostroboides / Dawn Redwood	8' Ht.	B+B	Full Canopy, Central Leader
UNDERSTORY TREES					
4	AC	Amelanchier canadensis / Serviceberry	8' Ht.	B+B	Clump, 3-5 Canes, Full Canopy
5	BN	Betula nigra / River Birch		B+B	
SHRUBS					
134	IGS	Ilex glabra 'Shamrock' / Shamrock Inkberry Holly	#5	Cont.	30" Ht, Full
224	IV	Itea virginica 'Little Henry' / Little Henry Sweetspire	#3	Cont.	18" Ht, Full
154	VD	Viburnum dentatum 'Synnestevedt' / Chicago Lustre Arrowwood Viburnum	#5	Cont.	30" Ht, Full
199	IVR	Ilex verticillata 'Red Sprite' / Red Sprite Winterberry	#5	Cont.	24" Ht, Full
HERBACEOUS					
2045	IVP	Iris versicolor / Blueflag Iris	-	Plug	12" O.C.
2435	JEF	Juncus effusus / Soft Rush	-	Plug	12" O.C.
2470	PCO	Pontederia cordata / Pickerel Weed	-	Plug	12" O.C.
2655	PEV	Peltandra virginica / Arrow Arum	-	Plug	12" O.C.
1985	SPU	Scirpus pungens / Common Three-Square	-	Plug	12" O.C.

NOTE: SEE SHEET L2.5 FOR STORMWATER MANAGEMENT AREA LANDSCAPING REQUIREMENTS.

PLANTING DESIGN FOR STORMWATER MANAGEMENT POND BASED ON "LANDSCAPING GUIDANCE FOR STORMWATER BMP'S" PROVIDED BY MDE. THE LANDSCAPING STRATEGY FOR THE POND ATTEMPTS TO CREATE AN ENVIRONMENTAL AND AESTHETIC AMENITY THE FITS WITHIN ITS PARKLAND CONTEXT INSTEAD OF SCREENING ITS VIEW FROM PARK USERS AS SUGGESTED IN THE COUNTY LANDSCAPE MANUAL. INCORPORATION OF NATIVE AND ADAPTED WETLAND SPECIES HELPS TREAT STANDING WATER AT SEVERAL POOL ELEVATIONS AND CONTRIBUTES TO A SUSTAINABLE ENVIRONMENT FOR WATERFOWL, INSECTS AND AQUATIC LIFE. TREES AND SHRUBS ARE LOCATED TO PROMOTE SOIL STABILITY, INTEGRATE THE POND INTO ADJACENT WOODED AREAS AND PROVIDE AN AESTHETICALLY-PLEASING BACKDROP FOR VIEWS TO THE POND.

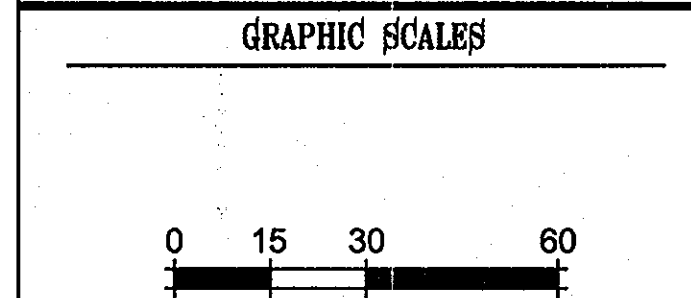
REVISIONS	

HOWARD COUNTY
 DEPARTMENT OF RECREATION AND PARKS
 7120 OAKLAND MILLS ROAD
 COLUMBIA, MD 21046
 DEPARTMENT OF PUBLIC WORKS
 9250 BENDIX ROAD
 ELLICOTT CITY, MD 21043



WHITMAN, REQUARDT & ASSOCIATES, LLP
 801 South Caroline Street, Baltimore, Maryland 21231
 Phone: 410-235-3450 Fax: 410-243-5716

PROPERTY
 TAX MAP 36, GRID 5, PARCEL 3,72
 ZONING: RC-DEO
 ELECTION DISTRICT 3/7



SIGNATURE

BLANDAIR REGIONAL PARK - PHASE 1

SWM Landscape Plan
 Enlargement
 Drawing No.
L1.3
 Scale: AS SHOWN
 Date: 02/19/10 Sheet 41 of 51
 Des: CB Drawn: NS Check: CB

MAHAN RYKIEL ASSOCIATES, INC.
 Landscape Architecture, Urban Design, Planning
 800 Wyman Park Drive, Suite 100, Baltimore, MD 21211 USA
 Tel. 410.235.6001 Fax. 410.235.6002

REVISIONS	

HOWARD COUNTY

DEPARTMENT OF RECREATION AND PARKS
7120 OAKLAND MILLS ROAD
COLUMBIA, MD 21046

DEPARTMENT OF PUBLIC WORKS
9250 BENDIX ROAD
ELLCOTT CITY, MD 21043



WHITMAN, REQUARDT & ASSOCIATES, LLP
801 South Caroline Street, Baltimore, Maryland 21231
Phone: 410-235-3450 Fax: 410-243-5716

PROPERTY

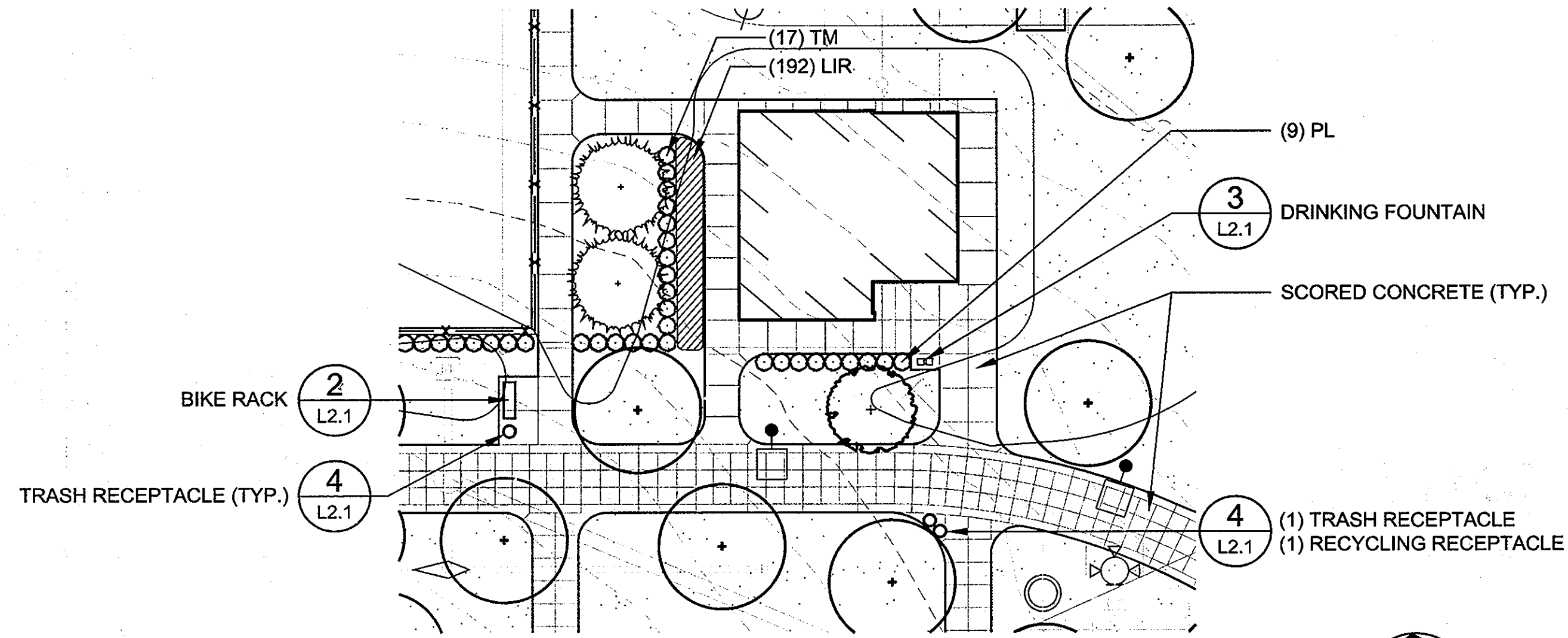
TAX MAP 36, GRID 5, PARCEL 3,72
ZONING: RC-DEO
ELECTION DISTRICT 3/7

GRAPHIC SCALES

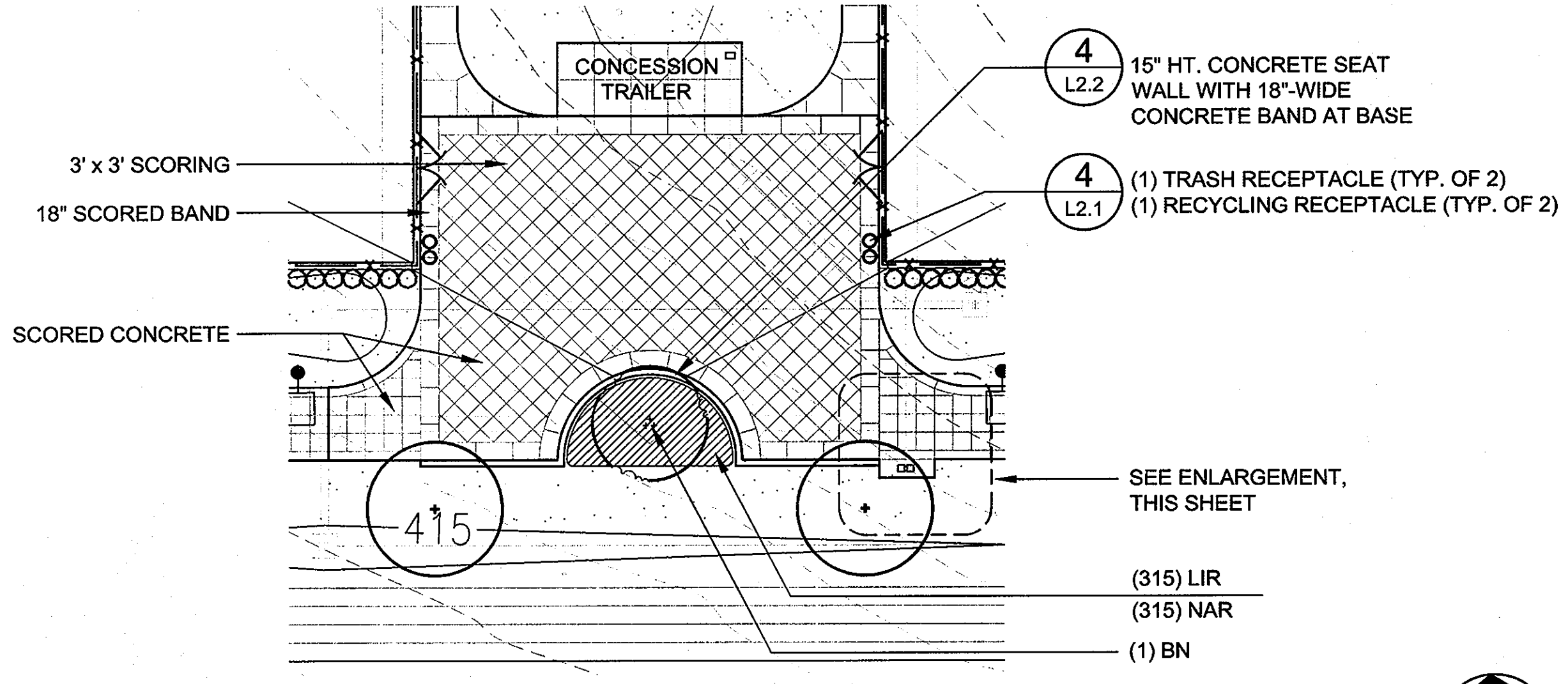
SIGNATURE

BLANDAIR REGIONAL PARK - PHASE 1

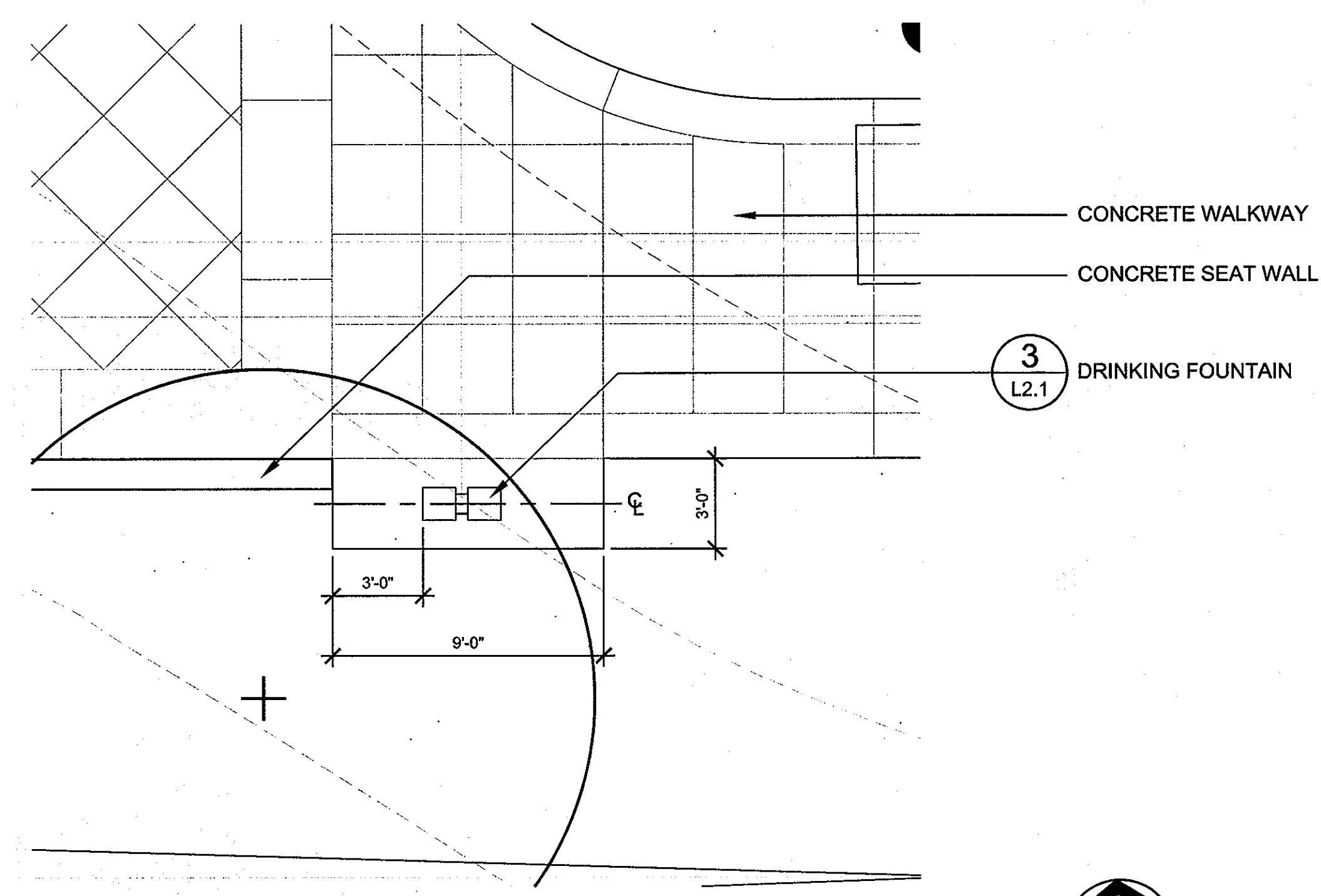
Landscape Plan Enlargements
Drawing No. **L1.4**
Scale: AS SHOWN
Date: 02/19/10 Sheet 42 of 51
Des: CB Drawn: NS Check: CB



1 Comfort Station Enlargement
1"=20'



2 Field Entry Plaza Enlargement
1"=20'



3 Drinking Fountain Enlargement
1/4"=1'

PLANT LIST (THIS SHEET ONLY)

Qty.	Key	Botanical/Common Name	Size	Root	Comments
UNDERSTORY TREES					
1	BN	Betula nigra 'Duraheat' Duraheat River Birch	12' Ht.	B&B	Multi-Stem; 3 cane min., 5 cane max. Specimen
SHRUBS					
9	PL	Prunus laurocerasus 'Otto Luyken' Otto Luyken Cherry Laurel	24" Ht./Spd.	B&B or Cont.	Full
17	TM	Taxus x media 'Densiformis' Dense Yew	30" Ht./Spd.	B&B	Full
GROUNDCOVER					
507	LIR	Liriope muscari 'Big Blue' Big Blue Liriope	#1	Cont.	12" O.C.
BULBS					
315	NAR	Narcissus 'Marieke' Marieke Daffodil	DN1	Bulb	12" O.C.

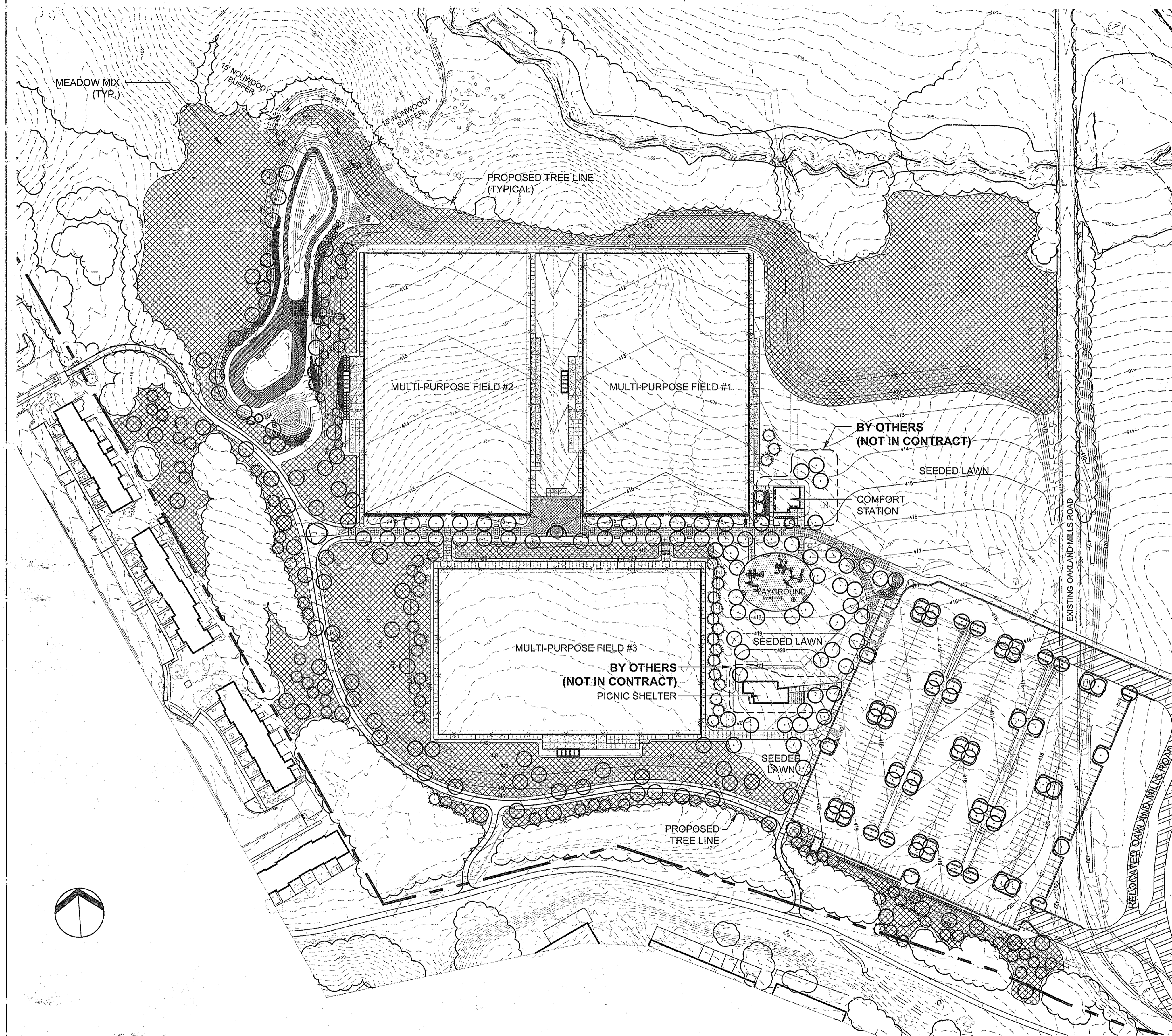
APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature] DATE 3/1/10
CHIEF, DEVELOPMENT ENGINEERING DIVISION
[Signature] DATE 4/08/10
CHIEF, DIVISION OF LAND DEVELOPMENT
[Signature] DATE 4/8/10
DIRECTOR

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS
[Signature] DATE 3/31/2010
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT



MAHAN RYKIEL ASSOCIATES, INC.
Landscape Architecture, Urban Design, Planning
800 Wyman Park Drive, Suite 100, Baltimore, MD 21211 USA
Tel. 410.235.6001 Fax. 410.235.6002

[Signature]
Professional Seal of the State of Maryland



MEADOW MIX

NATIVE UPLAND WILDLIFE FORAGE AND COVER MEADOW MIX: ERNMX-123

% of Total	Botanical Name	Common Name
20.00%	<i>Elymus virginicus</i>	Virginia Wild Rye
20.00%	<i>Schizachyrium scoparium, PA Ecotype</i>	Little Bluestem, PA Ecotype
10.00%	<i>Panicum virgatum, 'Shelter'</i>	'Shelter' Switchgrass
12.00%	<i>Sorghastrum nutans, PA Ecotype</i>	Indiangrass, PA Ecotype
10.00%	<i>Tripsacum dactyloides</i>	Eastern Gamma Grass
5.00%	<i>Chamaecrista fasciculata</i>	Patridge Pea
5.00%	<i>Coreopsis tinctoria</i>	Plains Coreopsis
5.00%	<i>Panicum amarum, 'Atlantic'</i>	'Atlantic' Coastal Panic Grass
3.00%	<i>Rudbeckia hirta</i>	Black Eyed Susan
4.00%	<i>Andropogon gerardii, 'Niagara'</i>	'Niagara' Big Bluestem
5.00%	<i>Poa palustris</i>	Fowl Bluegrass
1.00%	<i>Asclepias syriaca</i>	Common Milkweed

100.00% Total
 Seeding Rate: 15 lb per acre or 1/3-1/2 lb per 1,000 sq ft
 Use: Meadow sites

SEED MIX BY ERNST

9006 MERCER PIKE
 MEADVILLE, PA 16335
 (814) 336-2404

LEGEND

MEADOW MIX (OPEN FIELD MEADOW)

NOTE: ALL OTHER DISTURBED AREAS TO BE SEEDED WITH STANDARD TURF MIX.

PHASE J - CAPITAL PROJECT #J-4237

REVISIONS	
PARKING EXPANSION	07/12/13
BID SET	07/09/10
BID REVIEW SET	05/28/10

HOWARD COUNTY
 DEPARTMENT OF RECREATION AND PARKS
 7120 OAKLAND MILLS ROAD
 COLUMBIA, MD 21046
 DEPARTMENT OF PUBLIC WORKS
 9250 BENDIX ROAD
 ELLICOTT CITY, MD 21043

WR&A
 WHITMAN, REQUARDT & ASSOCIATES, LLP
 801 South Caroline Street, Baltimore, Maryland 21231
 Phone: 410-235-3450 Fax: 410-243-5716

PROPERTY
 TAX MAP 36, GRID 5, PARCEL 3,72
 ZONING: RC-DEO
 ELECTION DISTRICT 3/7

GRAPHIC SCALES

SIGNATURE

BLANDAIR REGIONAL PARK - PHASE 1 SITE CONTRACT

Seeding Plan

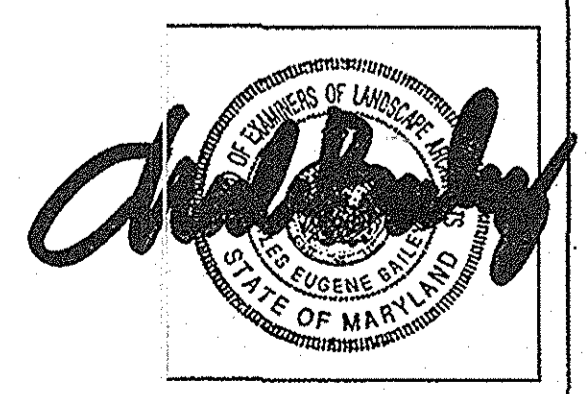
Drawing No. **L1.5**
 Scale: 1"=80'
 Date: 07/09/2010 Sheet 43 of 65
 Des: CB Drawn: NS Check: CB

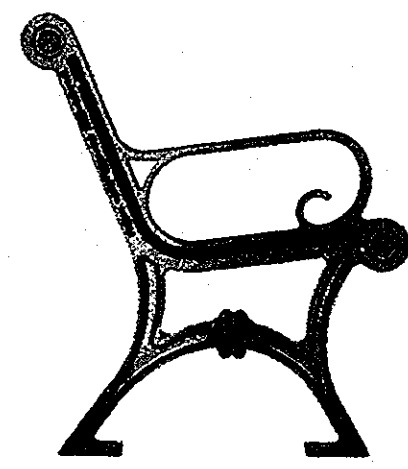
APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division
 Date: 3-11-14

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 County Health Officer
 Date: 4/28/2014



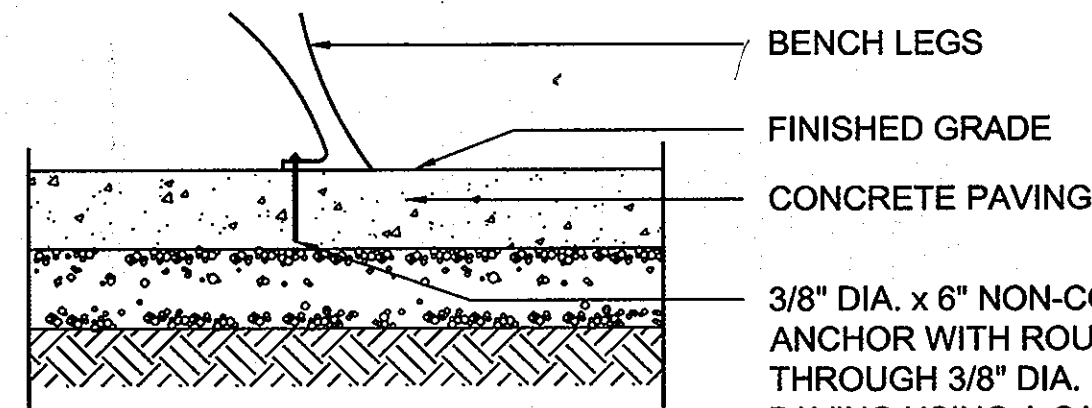
MAHAN RYKIEL ASSOCIATES, INC.
 Landscape Architecture, Urban Design, Planning
 800 Wyman Park Drive, Suite 100, Baltimore, MD 21211 USA
 Tel. 410.235.6001 Fax. 410.235.6002



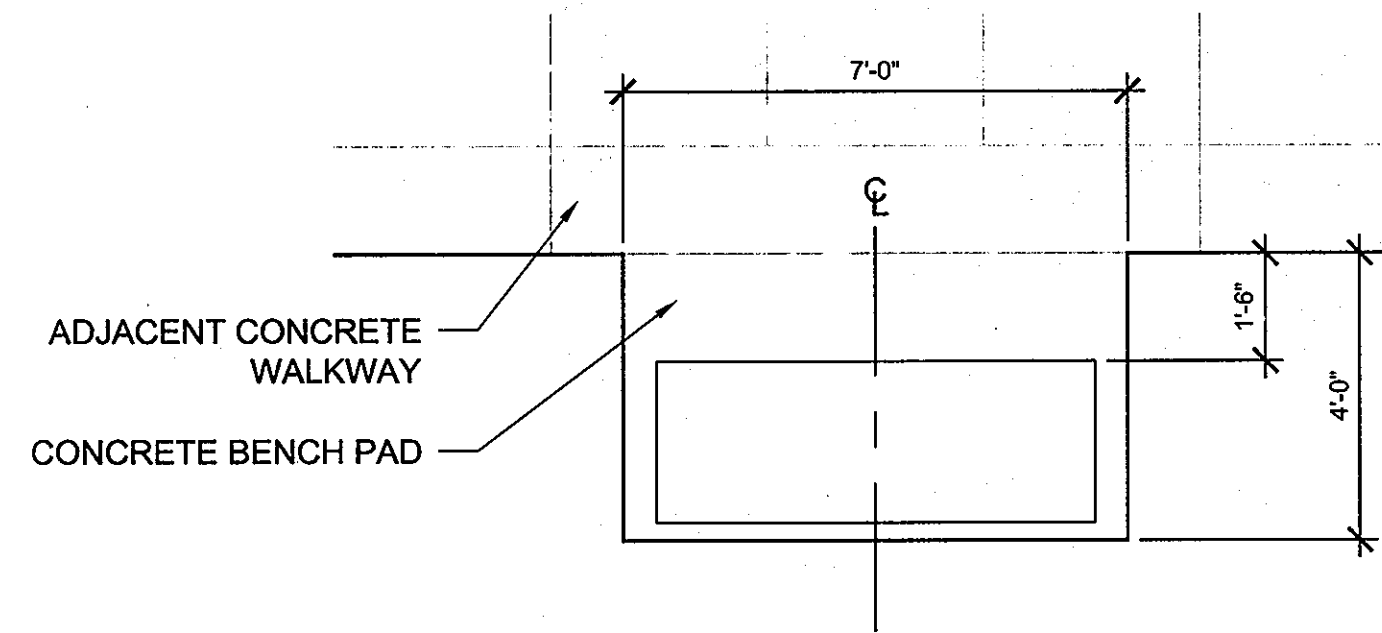


MANUFACTURER INFORMATION:
Victor Stanley, Inc.
P.O. Drawer 330
Dunkirk, MD 20754
1-800-368-2573
www.victorstanley.com

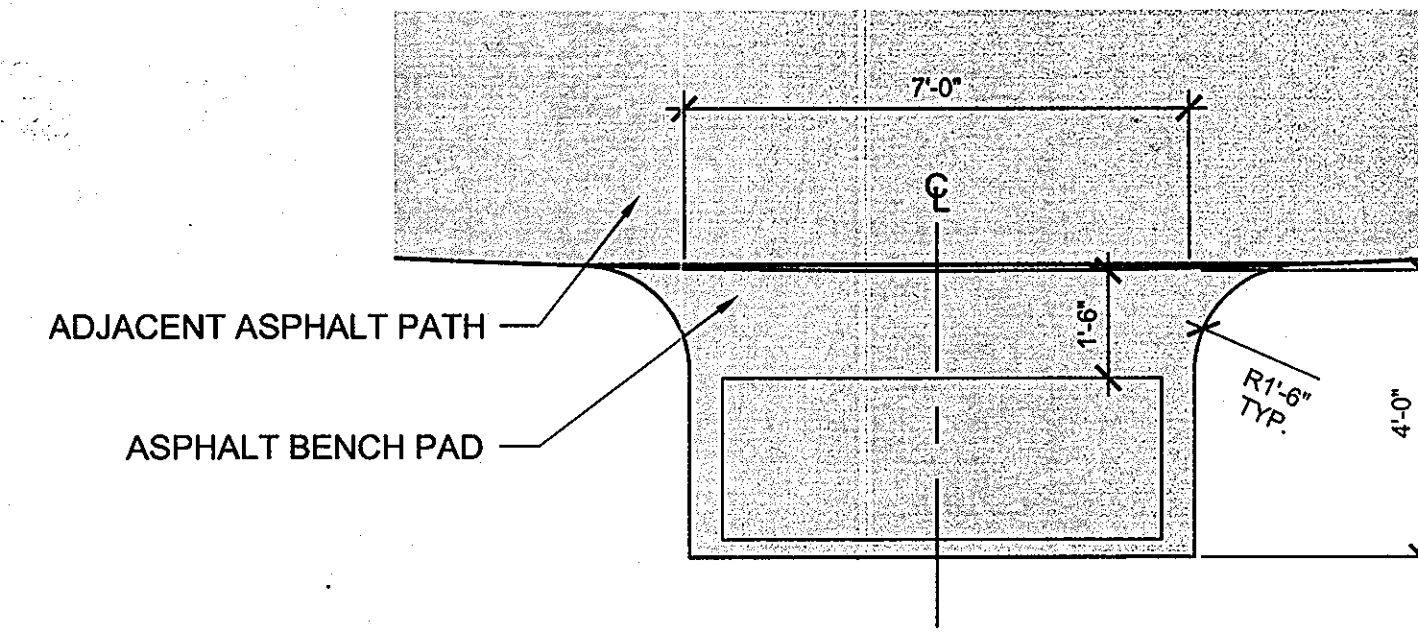
Classic Series by Victor Stanley
6' bench
Casting #196 with 2nd Site System
Frame color: bronze
Recycled plastic slats, color: maple



3/8" DIA. x 6" NON-CORROSIVE SLEEVE ANCHOR WITH ROUND HEAD. PLACE THROUGH 3/8" DIA. HOLE DRILLED INTO PAVING USING A CARBIDE BIT. FASTEN ANCHOR SNUG AGAINST SITE FURNITURE.



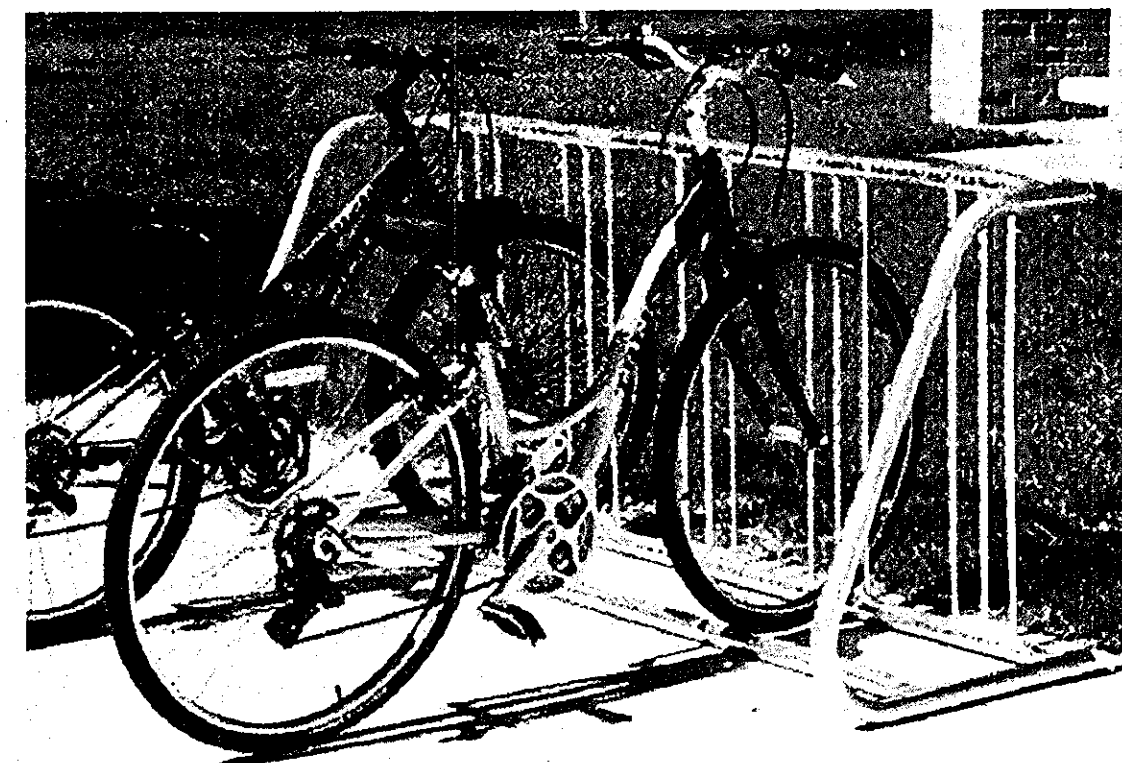
BENCH ON CONCRETE



BENCH ON ASPHALT

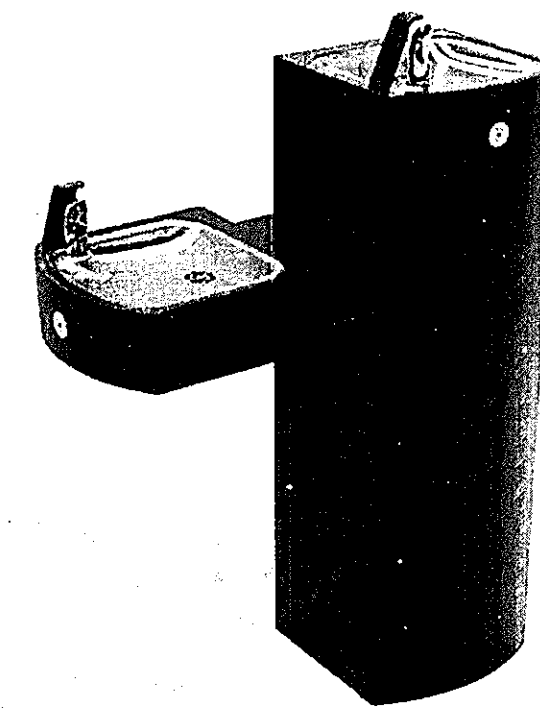
NOTE:
ANCHOR BENCH MIN. 6"
FROM EDGE OF BENCH PAD

1 Bench
NTS



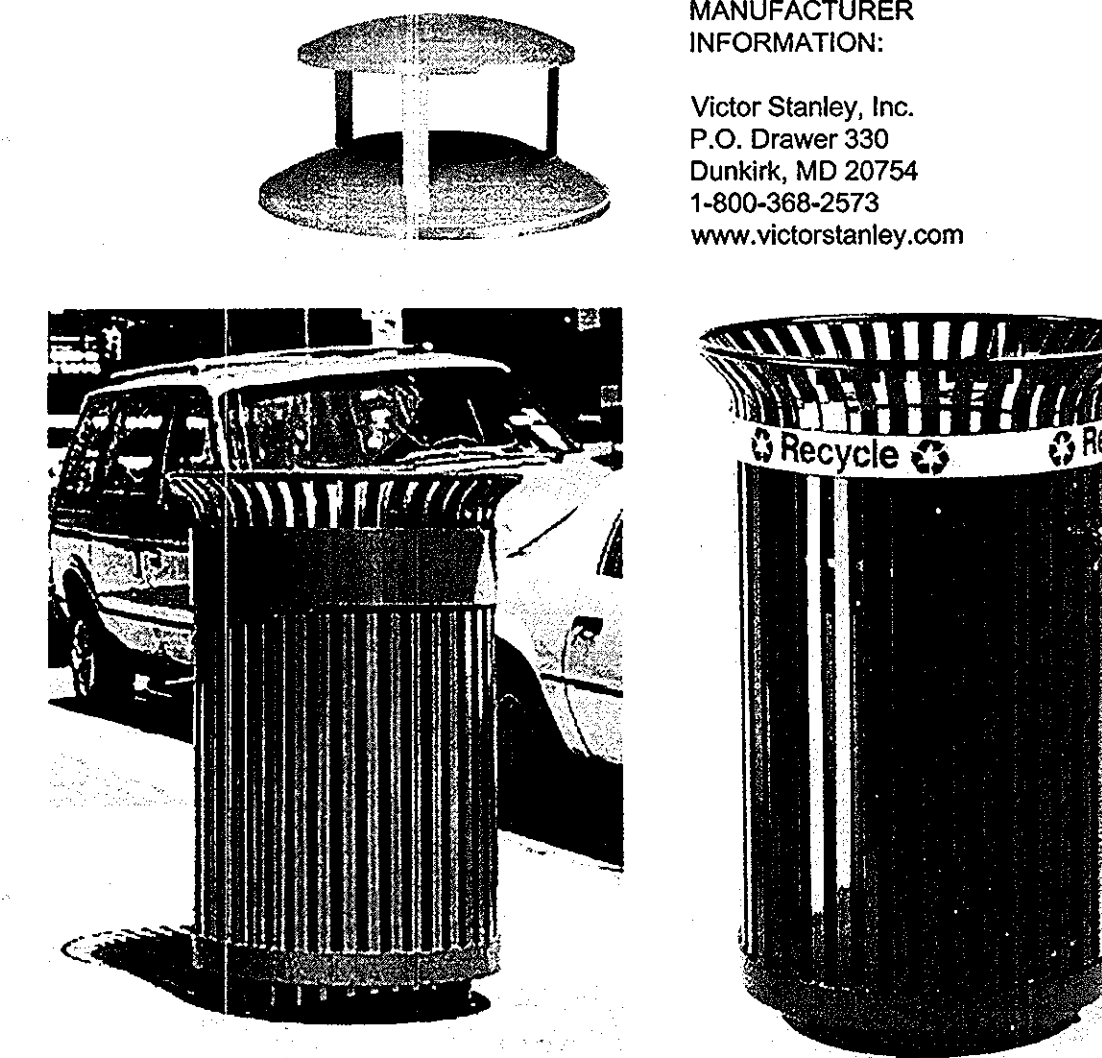
Model BR205SS/CA by Pilot Rock
Single-sided bike rack (holds 5 bikes)
Powder coat finish, color: gray
Anchor to concrete with heavy duty kit #ANC2-4 provided by manufacturer

MANUFACTURER INFORMATION:
Pilot Rock / R.J. Thomas
Manufacturing Co., Inc.
PO Box 946
5648 Hwy. 59 South
Cherokee, Iowa 51015
1-800-762-5002
www.pilotrock.com



Model GSM55 by Murdock-Super Secur
Bi-level pedestal mount, square steel
Color: bronze
Accessories
HB3: hose bib, loose key, vandal resistant, with hose threaded outlet/VB
JF2: jug filler, recessed
NP2: non-pollutable, freeze resistant valve

MANUFACTURER INFORMATION:
Murdock-Super Secur
PO Box 3527
City of Industry, CA 91744
1-800-453-7465
www.murdock-supersecur.com



Ironsites Series Model S-45 by Victor Stanley
45-gallon capacity litter receptacle
Rain bonnet lid
Color: bronze
Black plastic liner, four leveling feet, bottom recessed pedestal (Anchor per manufacturer's recommendations)

MANUFACTURER INFORMATION:
Victor Stanley, Inc.
P.O. Drawer 330
Dunkirk, MD 20754
1-800-368-2573
www.victorstanley.com

2 Bike Rack
NTS

3 Drinking Fountain
NTS

4 Trash Receptacle
NTS

APPROVED: DEPARTMENT OF PLANNING AND ZONING

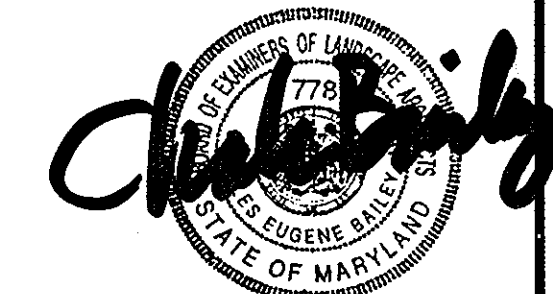
William 3/9/10
CHIEF, DEVELOPMENT ENGINEERING DIVISION
Victor Stanley 4/08/10
CHIEF, DIVISION OF LAND DEVELOPMENT
Morgan & Butten 4/8/10
DIRECTOR

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS

Barbara 3/31/2010
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT
KB 4/8/10



MAHAN RYKIEL ASSOCIATES, INC.
Landscape Architecture, Urban Design, Planning
800 Wyman Park Drive, Suite 100, Baltimore, MD 21211 USA
Tel. 410.235.6001 Fax. 410.235.6002



REVISIONS	

HOWARD COUNTY
DEPARTMENT OF RECREATION AND PARKS
7120 OAKLAND MILLS ROAD
COLUMBIA, MD 21046
DEPARTMENT OF PUBLIC WORKS
9250 BENDIX ROAD
ELLCOTT CITY, MD 21043

WR&A
WHITMAN, REQUARDT & ASSOCIATES, LLP
801 South Caroline Street, Baltimore, Maryland 21231
Phone: 410-235-3450 Fax: 410-243-6716

PROPERTY
TAX MAP 36, GRID 5, PARCEL 3,72
ZONING: RC-DEO
ELECTION DISTRICT 3/7

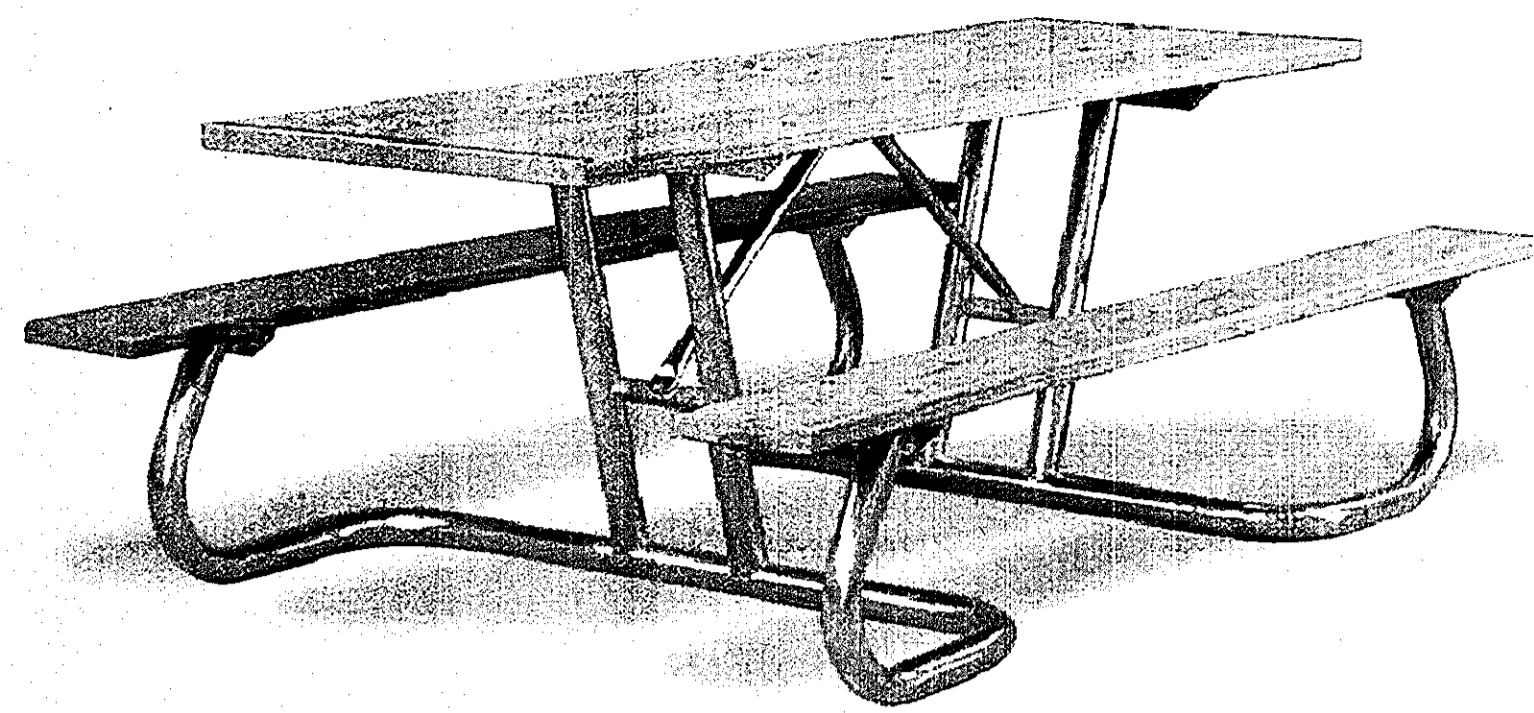
GRAPHIC SCALES

SIGNATURE

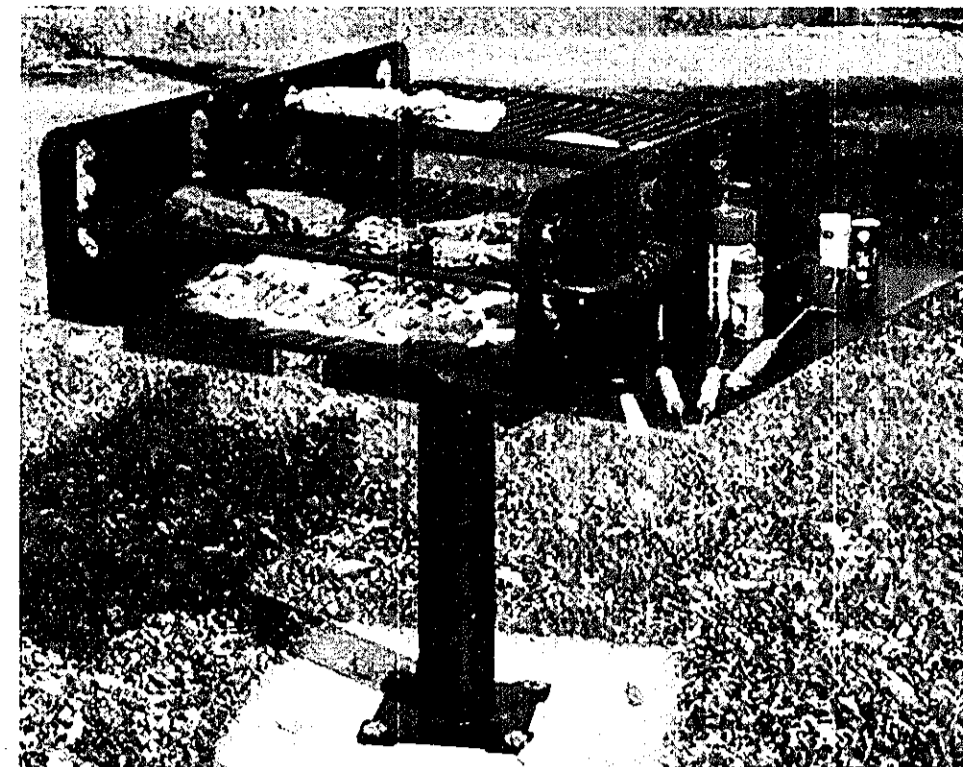
BLANDAIR REGIONAL PARK - PHASE 1

Hardscape Details
Drawing No.
L2.1

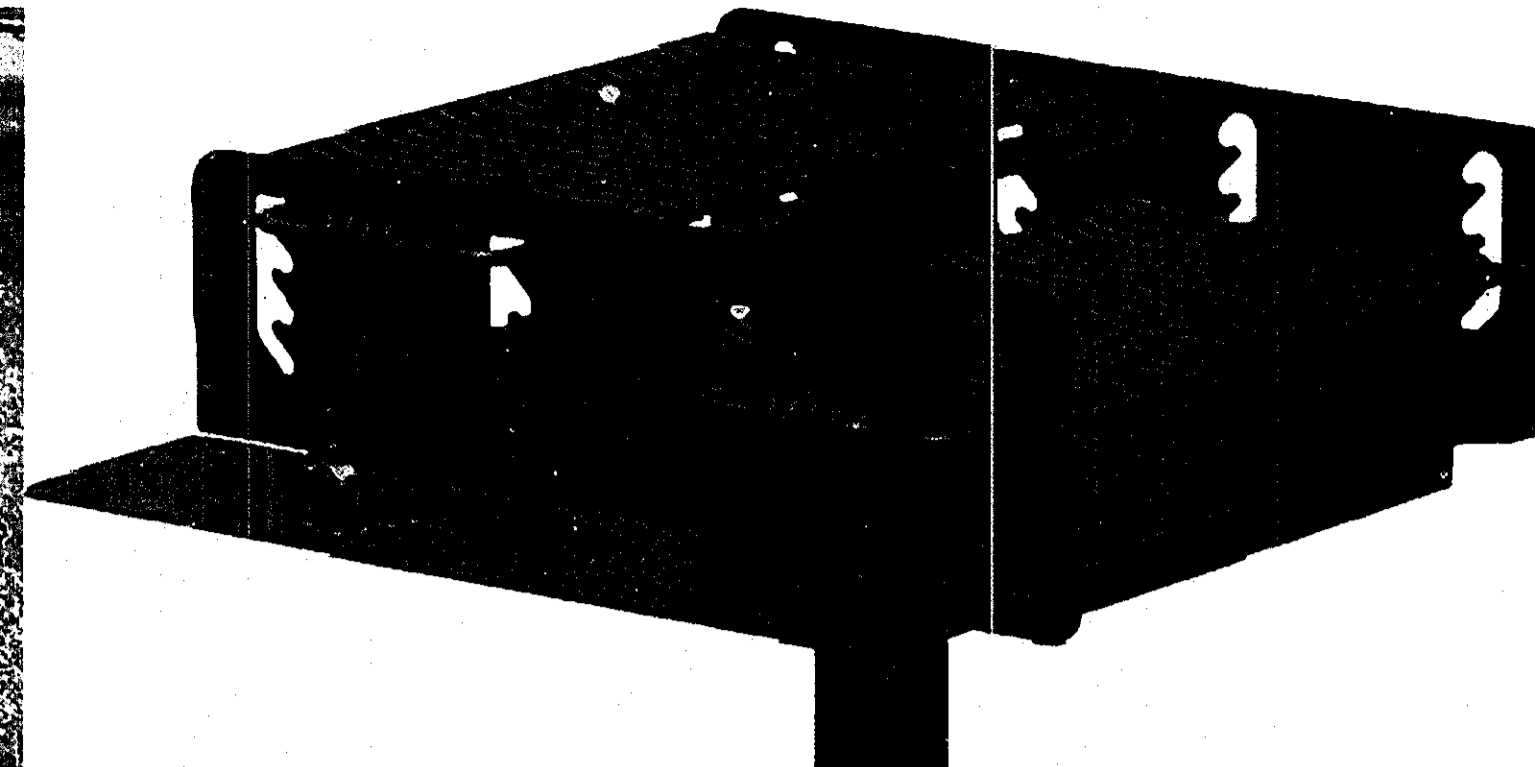
Scale: NONE
Date: 02/19/10 Sheet 44 of 51
Des: CB Drawn: NS Check: CB



Model WXTH/CB-8UP by Pilot Rock
8' accessible park table
Recycled plastic boards, color: cedar
Frame color: stainless steel



Model P-1000/S B7 by Pilot Rock
Surface mounted with one standard shelf
Mount per manufacturer's recommendation



MANUFACTURER INFORMATION:
Pilot Rock / R.J. Thomas Manufacturing Co., Inc.
PO Box 946
5648 Hwy. 59 South
Cherokee, Iowa 51015
1-800-762-5002
www.pilotrock.com

REVISIONS	

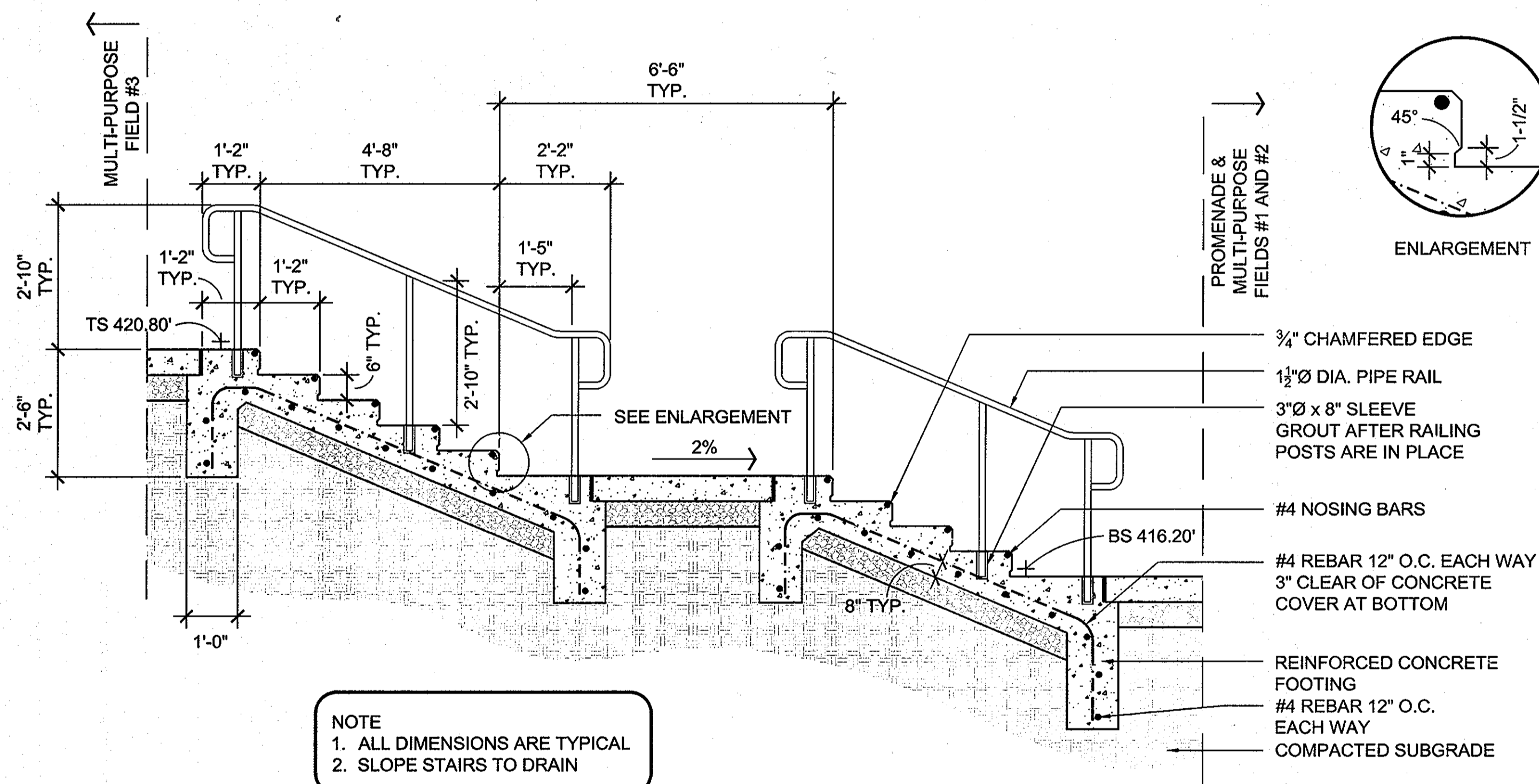
HOWARD COUNTY

DEPARTMENT OF
RECREATION AND PARKS
7120 OAKLAND MILLS ROAD
COLUMBIA, MD 21046

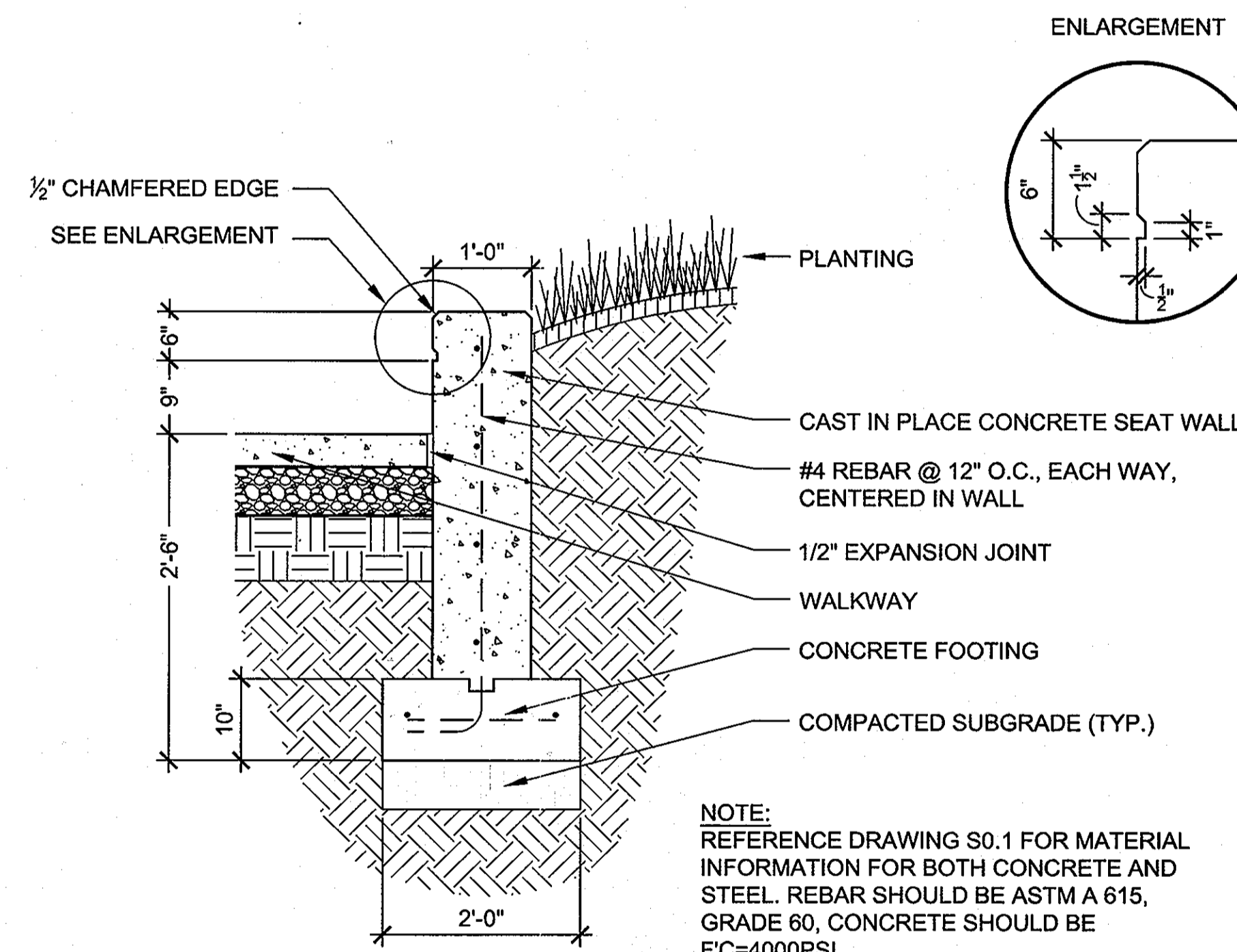
DEPARTMENT OF
PUBLIC WORKS
9250 BENDIX ROAD
ELLCOTT CITY, MD 21043

1 Picnic Table
NTS

2 Grill
NTS



NOTE
1. ALL DIMENSIONS ARE TYPICAL
2. SLOPE STAIRS TO DRAIN



NOTE:
REFERENCE DRAWING S0.1 FOR MATERIAL
INFORMATION FOR BOTH CONCRETE AND
STEEL. REBAR SHOULD BE ASTM A 615,
GRADE 60, CONCRETE SHOULD BE
F'C=4000PSI

3 Stairs and Handrail
Scale: 1/2" = 1'-0"

4 Concrete Seat Wall
Scale: 3/4" = 1'-0"

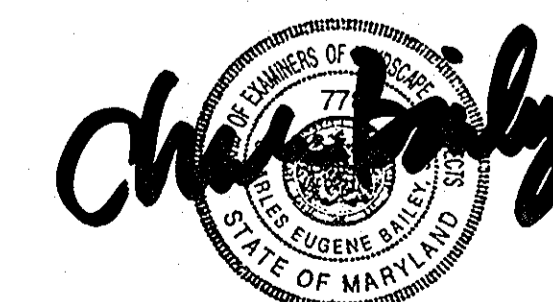
PROPERTY
TAX MAP 36, GRID 5, PARCEL 3,72
ZONING: RC-DEO
ELECTION DISTRICT 3/7
GRAPHIC SCALES
SIGNATURE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature]
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 3/9/10

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS
[Signature]
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT
DATE: 3/31/2010



MAHAN RYKIEL ASSOCIATES, INC.
Landscape Architecture, Urban Design, Planning
800 Wyman Park Drive, Suite 100, Baltimore, MD 21211 USA
Tel. 410.236.6001 Fax. 410.236.6002

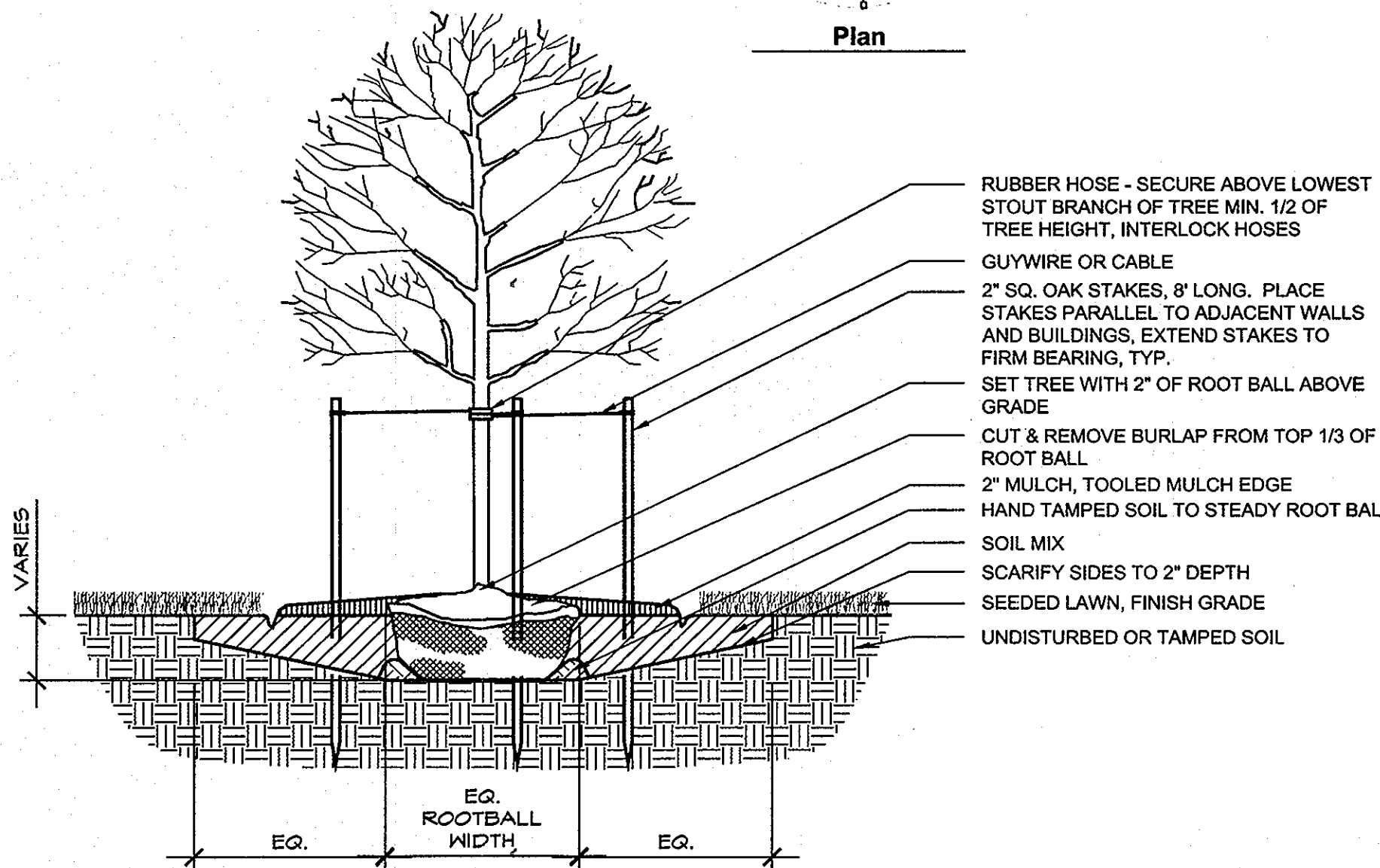
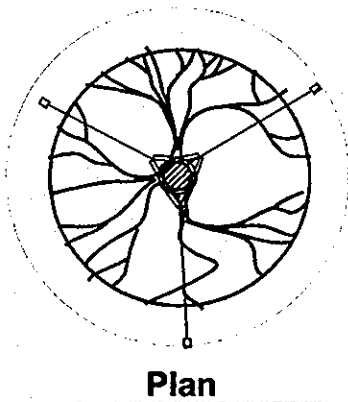


BLANDAIR REGIONAL
PARK - PHASE 1

Hardscape Details		
Drawing No.		
L2.2		
Scale: AS SHOWN		
Date: 12/18/09	Sheet 45 of 51	
Des: CB	Drawn: NS	Check: CB

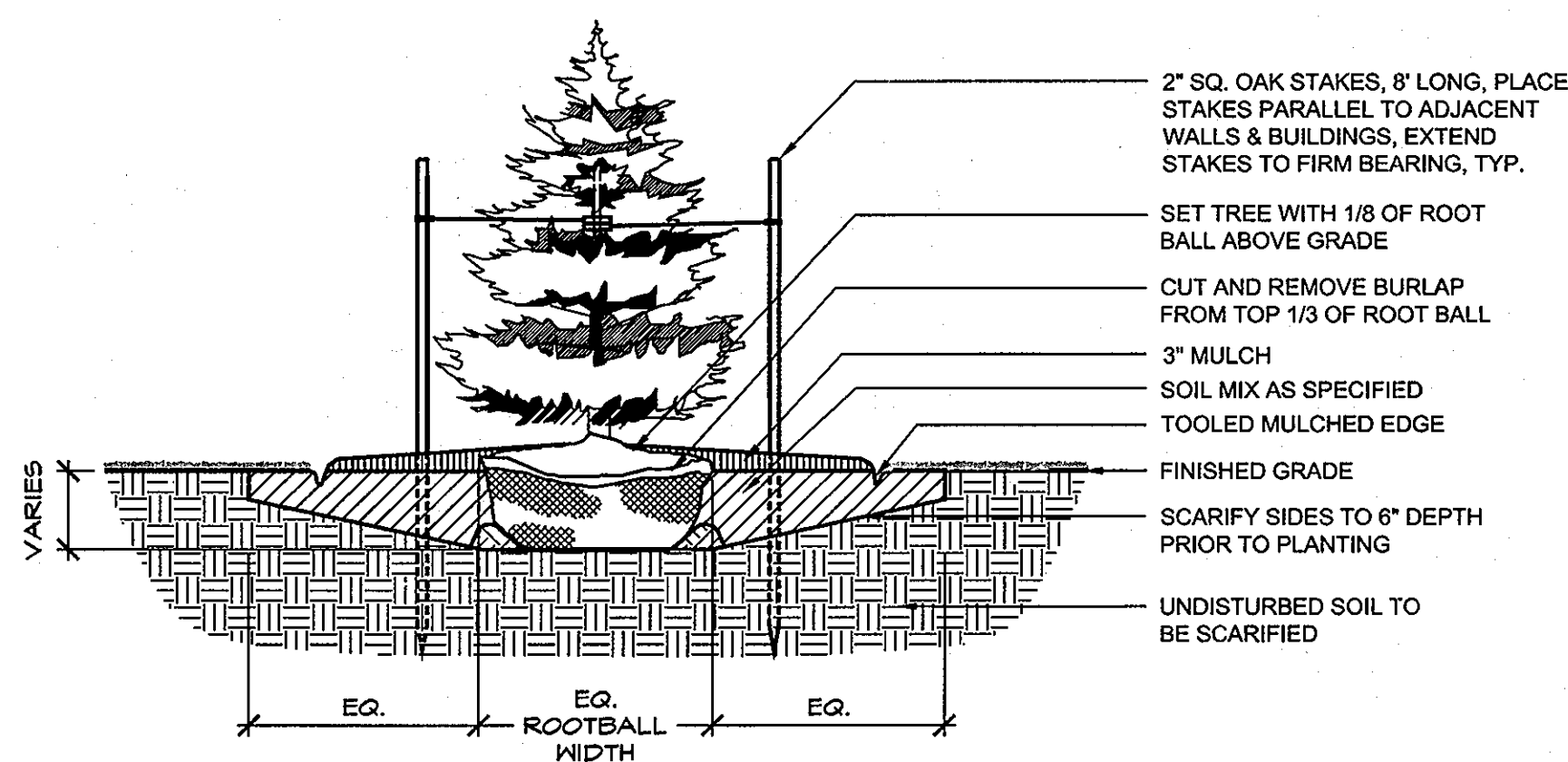
Notes:

1. DO NOT CUT CENTRAL LEADER.
2. FOR PLANTS IN WIRE BASKETS, REFER TO SPECIFICATIONS.
3. DO NOT PLACE MULCH AGAINST TRUNK.
4. TREES TO HAVE SINGLE LEADER.
5. CUT AND REMOVE TOP HALF OF WIRE BASKETS.



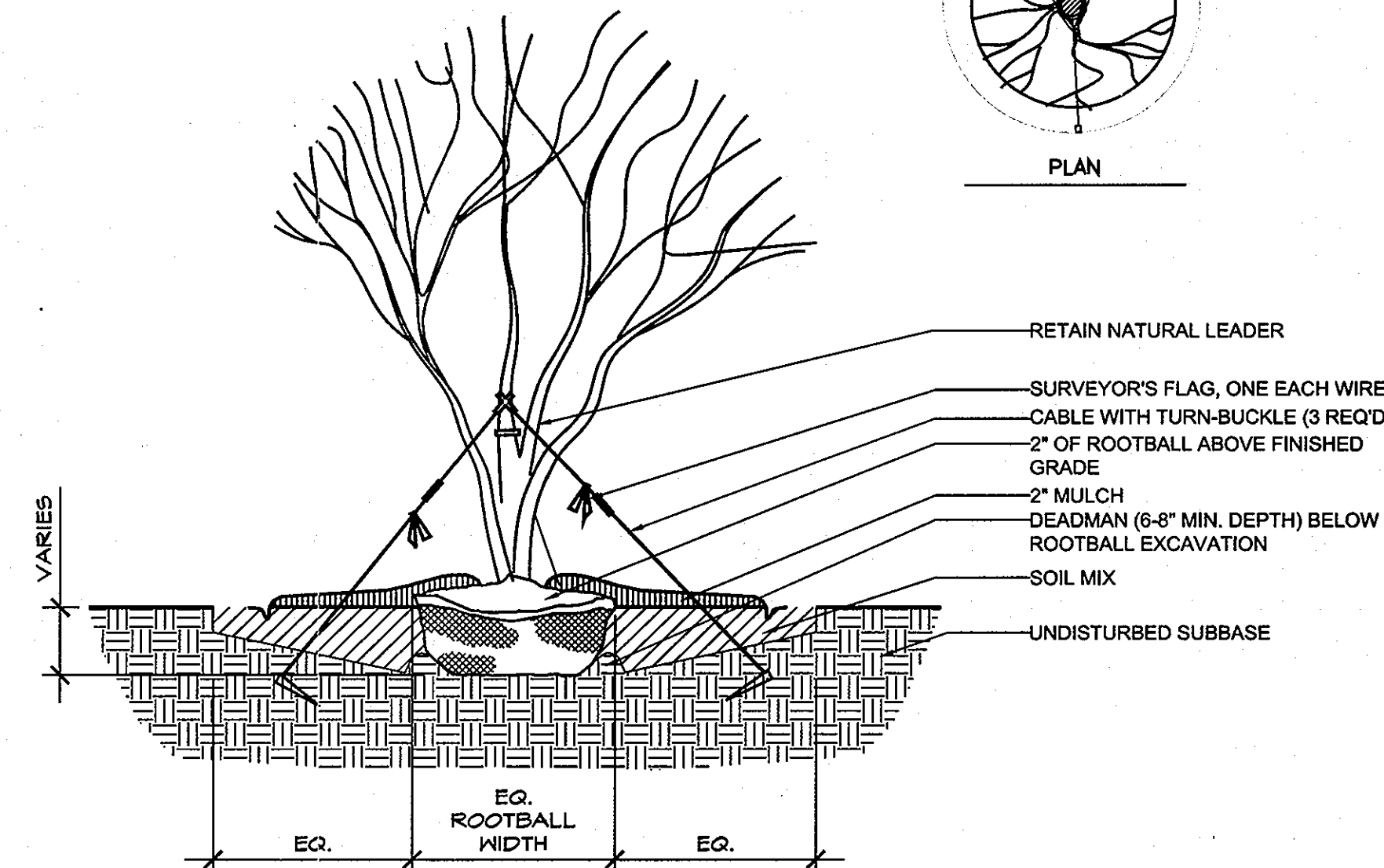
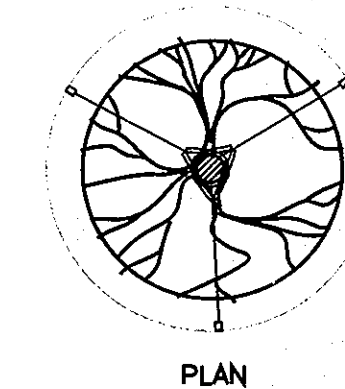
Notes:

1. NEVER CUT CENTRAL LEADER.
2. FOR PLANTS IN WIRE BASKETS, REFER TO SPECIFICATIONS.
3. TREES TO HAVE SINGLE LEADER.
4. CUT AND REMOVE TOP HALF OF WIRE BASKETS.
5. DO NOT PLACE MULCH AGAINST TRUNK.



Notes:

1. FOR B&B TREES, REMOVE TOP 1/3 OF BALL WRAP.
2. CUT WIRE BASKET IN AT LEAST FOUR LOCATIONS CIRCLING ROOTBALL.
3. DO NOT PLACE MULCH AGAINST TRUNK.



1 Typical Deciduous Tree Planting

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

2 Typical Evergreen Tree Planting

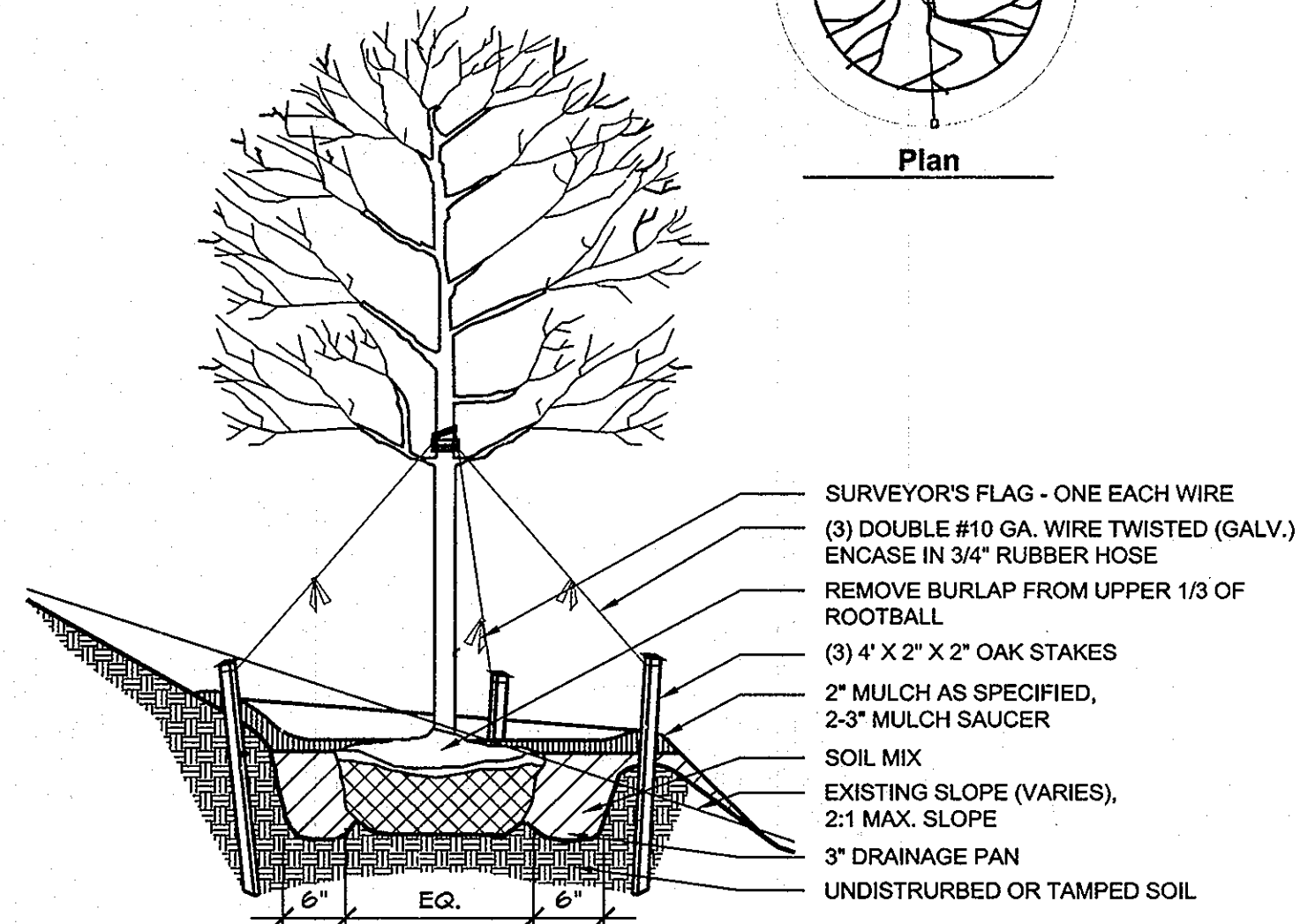
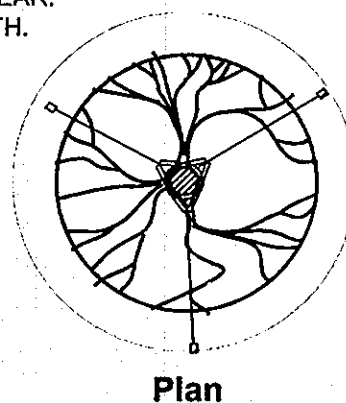
Scale: 1/2" = 1'-0"

3 Typical Flowering Tree Planting

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

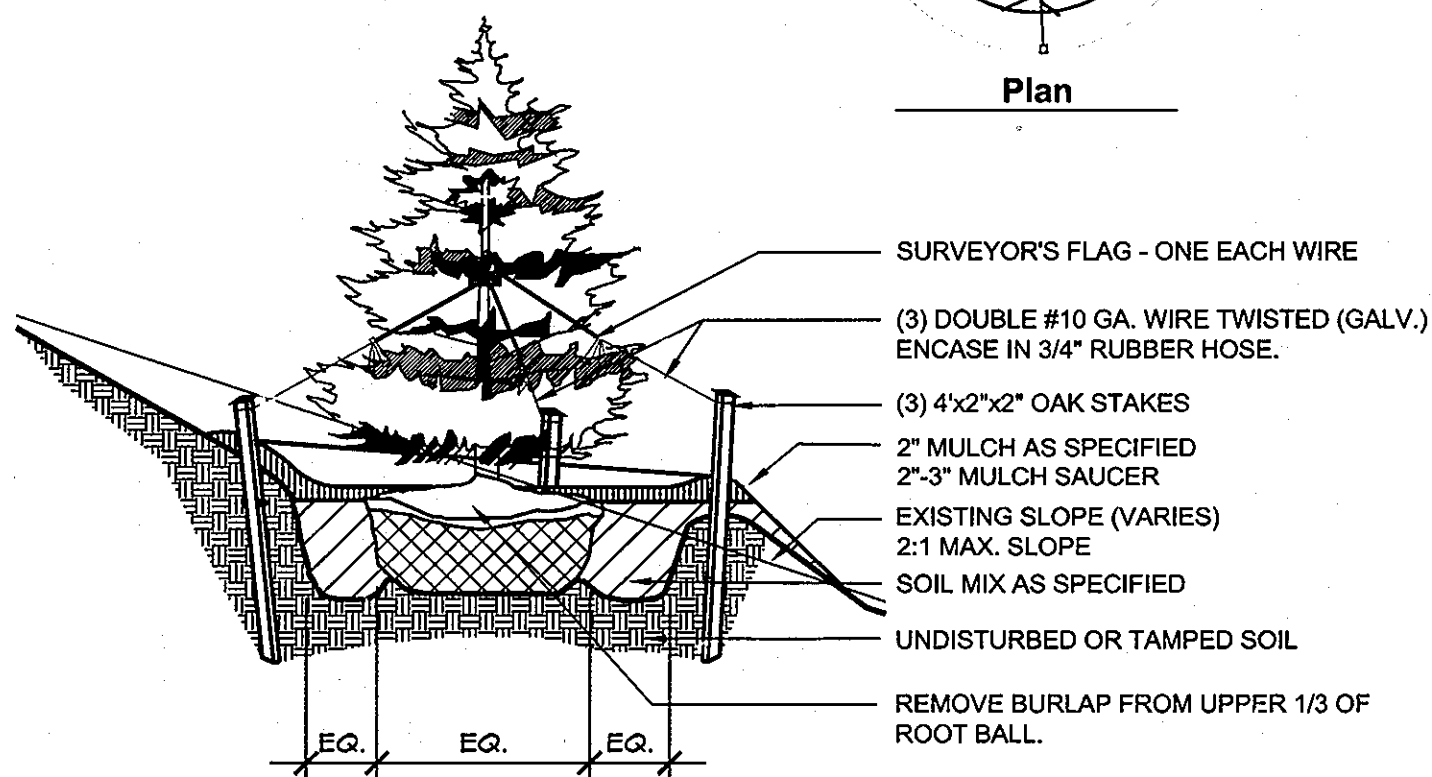
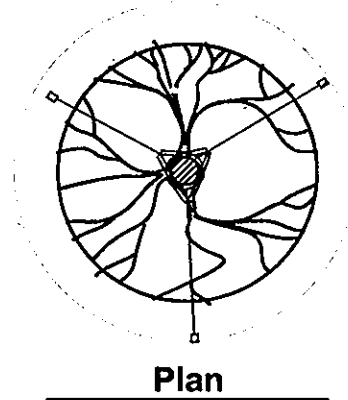
Notes:

1. NEVER CUT CENTRAL LEADER.
2. NEVER MULCH AGAINST TRUNK.
3. SET TREE WITH 1/8 OF ROOT BALL ABOVE GRADE.
4. STAKES, WIRES, AND HOSES SHALL BE REMOVED AFTER ONE YEAR.
5. SCARIFY SUBSOIL AND SIDES OF TREE PIT TO A MIN. OF 4" DEPTH.
6. TREES UNDER 2'-1/2" CAL.: 10" X 2" X 2" STAKES SET VERTICAL, MIN. TWO FEET INTO COMPACTED SUBGRADE.
7. TREES TO HAVE SINGLE LEADER.
8. CUT AND REMOVE TOP HALF OF WIRE BASKETS.



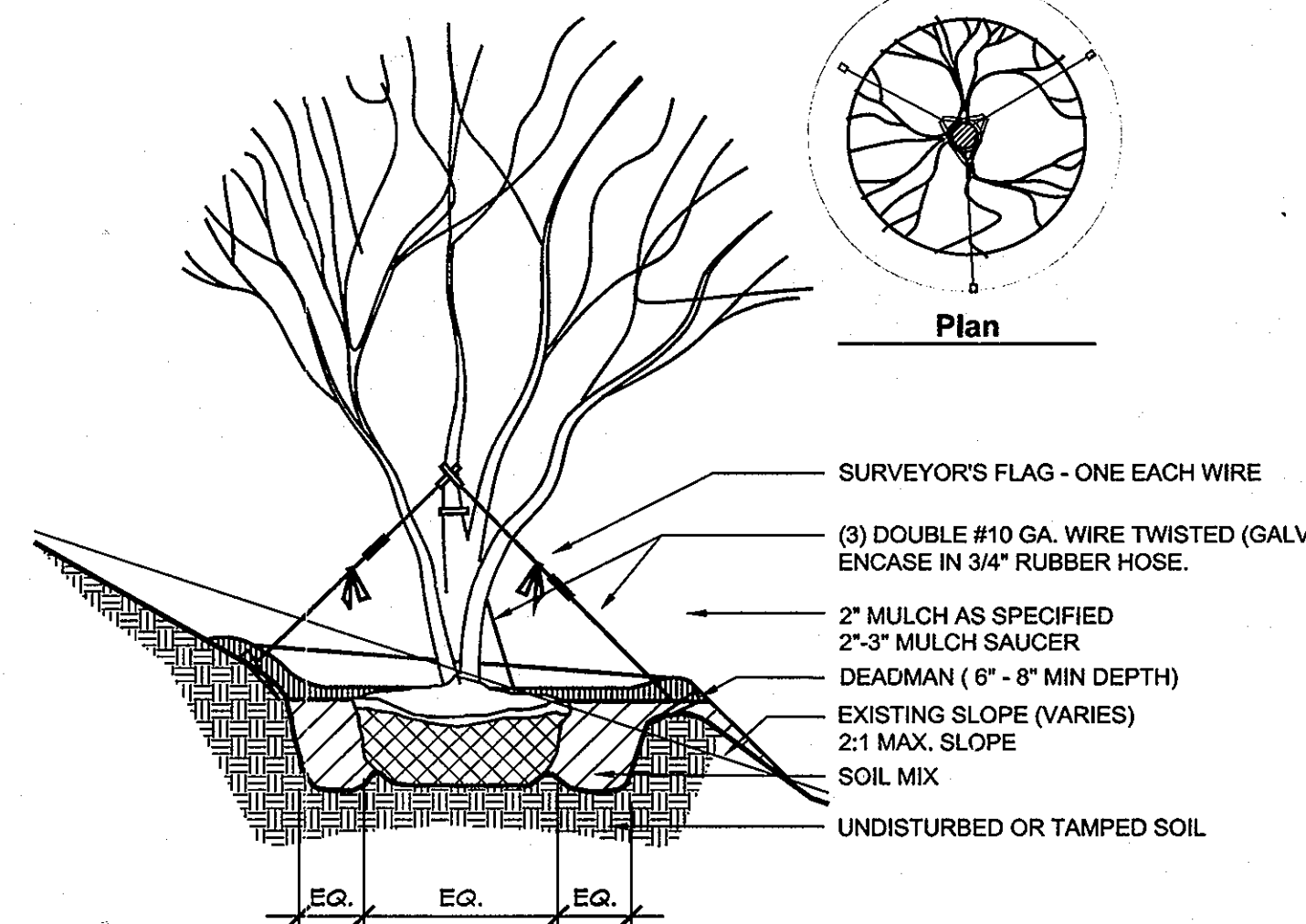
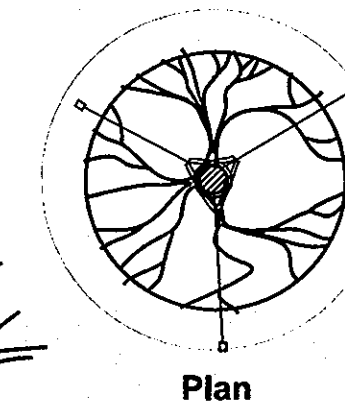
Notes:

1. NEVER CUT CENTRAL LEADER.
2. FOR PLANTS IN WIRE BASKETS, REFER TO SPECIFICATIONS.
3. DO NOT PLACE MULCH AGAINST TRUNK.
4. TREES TO HAVE SINGLE LEADER.
5. CUT AND REMOVE TOP HALF OF WIRE BASKETS.



Notes:

1. FOR B&B TREES, REMOVE TOP 1/3 OF BALL WRAP.
2. CUT WIRE BASKET IN AT LEAST FOUR LOCATIONS CIRCLING ROOTBALL.
3. DO NOT PLACE MULCH AGAINST TRUNK.



4 Typical Deciduous Tree Planting on Slope

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

5 Typical Evergreen Tree Planting on Slope

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

6 Typical Flowering Tree Planting on Slope

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

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 3/9/10
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE: 4/09/10
 DIRECTOR
 DATE: 4/6/10

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS

COUNTY HEALTH OFFICER
 DATE: 3/31/2010
 HOWARD COUNTY HEALTH DEPARTMENT



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 800 Wyman Park Drive, Suite 100, Baltimore, MD 21211 USA
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REVISIONS	

HOWARD COUNTY
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 7120 OAKLAND MILLS ROAD
 COLUMBIA, MD 21046
 DEPARTMENT OF PUBLIC WORKS
 9250 BENDIX ROAD
 ELLICOTT CITY, MD 21043

WR&A
 WHITMAN, REQUARDT & ASSOCIATES, LLP
 801 South Caroline Street, Baltimore, Maryland 21231
 Phone: 410-235-3450 Fax: 410-243-5718

PROPERTY
 TAX MAP 36, GRID 5, PARCEL 3,72
 ZONING: RC-DEO
 ELECTION DISTRICT 3/7

GRAPHIC SCALES

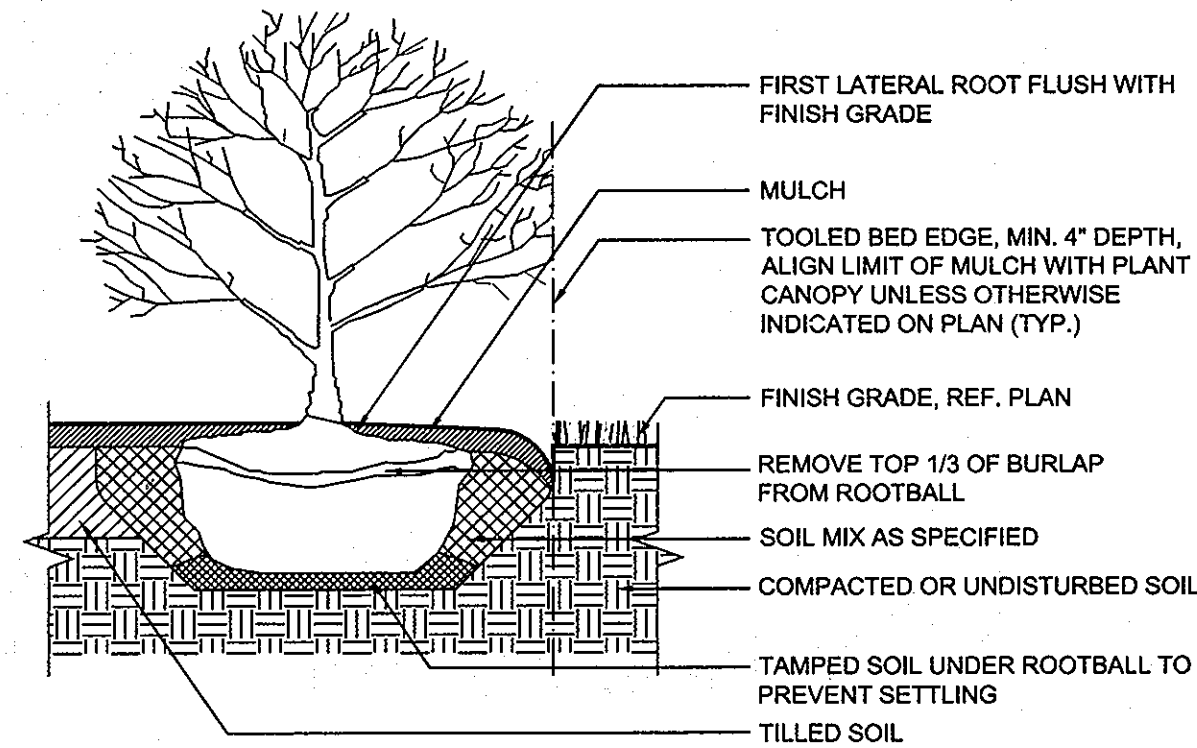
SIGNATURE

BLANDAIR REGIONAL PARK - PHASE 1

Planting Details
 Drawing No. **L2.3**
 Scale: AS SHOWN
 Date: 12/18/09 Sheet 46 of 51
 Des: CB Drawn: NS Check: CB

SEQUENCE OF CONSTRUCTION (GENERAL), REFER TO SPECIFICATIONS

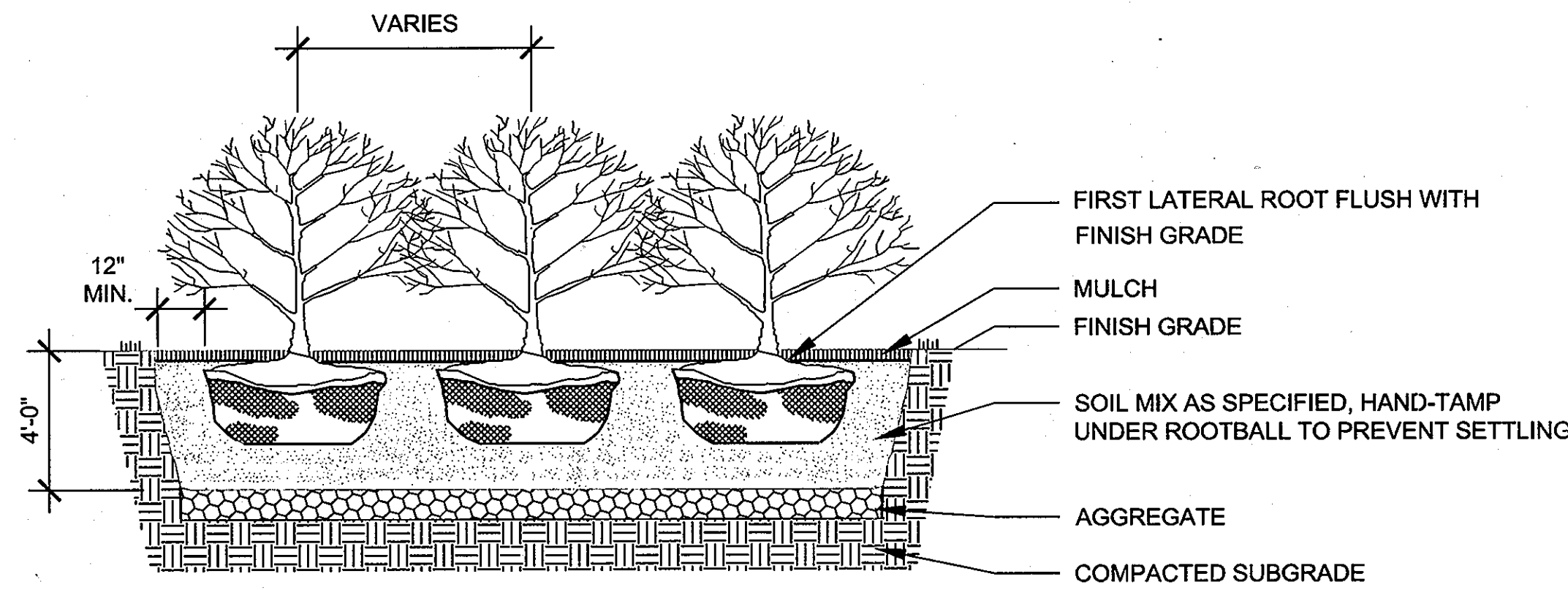
1. STAKE OUT PLANT/BED LOCATIONS.
2. CUT EDGE OF PLANT BED.
3. TILL SOIL AND APPLY AMENDMENTS TO ENTIRE PLANTING AREA.
4. APPLY PRE-EMERGENT HERBICIDE (TWO WEEKS PRIOR TO PLANTING).
5. INSTALL PLANTS.
6. INSTALL FERTILIZER TABLETS IN EACH PLANT PIT.
7. PLACE BACKFILL.
8. WATER EACH INDIVIDUAL PLANT THOROUGHLY.
9. PLACE MULCH OVER ENTIRE PLANT BED.
10. WATER ENTIRE PLANT BED THOROUGHLY.



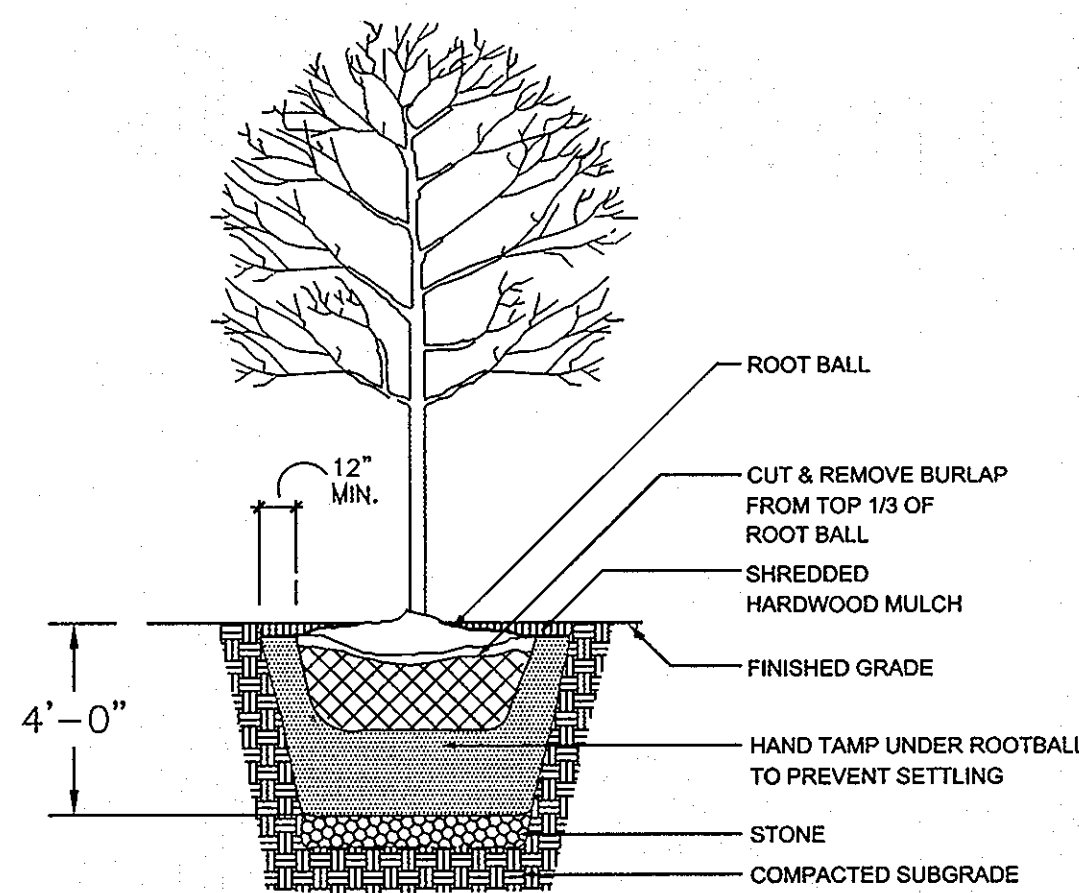
1 Typical Shrub Planting
3/8" = 1'

Note:

1. CUT AND REMOVE BURLAP FROM TOP 1/3 OF ROOT BALL AS SHOWN



2 Shrub Planting - Bio-Retention Area
N.T.S.



3 Tree Planting - Bio-Retention Area
N.T.S.

REVISIONS	

HOWARD COUNTY
DEPARTMENT OF RECREATION AND PARKS
7120 OAKLAND MILLS ROAD
COLUMBIA, MD 21046
DEPARTMENT OF PUBLIC WORKS
9250 BENDIX ROAD
ELLICOTT CITY, MD 21043

WR&A
WHITMAN, REQUARDT & ASSOCIATES, LLP
801 South Caroline Street, Baltimore, Maryland 21231
Phone: 410-235-3450 Fax: 410-243-5716

PROPERTY
TAX MAP 36, GRID 5, PARCEL 3.72
ZONING: RC-DEO
ELECTION DISTRICT 3/7

GRAPHIC SCALES

SIGNATURE

BLANDAIR REGIONAL PARK - PHASE 1

Planting Details
Drawing No. **L2.4**
Scale: AS SHOWN
Date: 12/18/09 Sheet 47 of 51
Des: CB Drawn: NS Check: CB

APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature] DATE 3/9/10
CHIEF, DEVELOPMENT ENGINEERING DIVISION
[Signature] DATE 4/08/10
CHIEF, DIVISION OF LAND DEVELOPMENT
[Signature] DATE 4/8/10
DIRECTOR

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS
[Signature] DATE 3/31/2010
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT
[Signature] DATE 1/9/10



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Landscape Architecture, Urban Design, Planning
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Tel. 410.236.6001 Fax. 410.236.6002

[Signature]

SCHEDULE A PERIMETER LANDSCAPE EDGE			
CATEGORY	ADJACENT TO PERIMETER AND ROADWAYS		
	P-1	P-2	P-3
Perimeter			
Perimeter/Frontage Designation Landscape Type	C	C	B
Linear Feet of Roadway Frontage/Perimeter	906	1060	994
Credit for Existing Vegetation (Yes, No, Linear Feet Describe below if needed)	Yes 625	Yes 775	* SEE NOTE BELOW
Credit for Wall, Fence or Berm (Yes, No, Linear Feet Describe below if needed)	No	No	No
Subtotal (linear feet of perimeter - credits)	281	285	0
Number of Plants Required			
Shade Trees	1:40=7	1:40=7	-
Evergreen Trees	1:20=14	1:20=14	-
Shrubs	-	-	-
Number of Plants Provided			
Shade Trees	7	7	-
Evergreen Trees	14	14	-
Other Trees (2:1 Substitution)	-	-	-
Shrubs (10:1 Substitution)	-	-	-
Describe Plant Substitution Credits Below if needed			

* NOTE:
PERIMETER BUFFER P-3 WILL BE A TEMPORARY CONDITION.
PLANS TO RELOCATE OAKLAND MILLS ROAD TO THE EAST
AND EXPAND THE PARKING LOT SHOWN ON THESE PLANS
ARE CURRENTLY UNDERWAY. THE PROPOSED PERIMETER
LANDSCAPE TREATMENT ALONG THE FUTURE RELOCATED
OAKLAND MILLS ROAD WILL BE DEVELOPED AS PART OF THE
EXPANDED PARKING LOT PLANS.

SCHEDULE B PARKING LOT INTERNAL LANDSCAPING	
Number of parking spaces	278
Number of trees required (1 TREE: 20 SPACES)	14
Number of trees provided	
Shade Trees	14
Other Trees (2:1 Substitution)	-

SCHEDULE D STORMWATER MANAGEMENT AREA LANDSCAPING	
Stormwater Management Pond	POND 1
Linear feet of perimeter	1215
Credit for existing vegetation	YES 200
Credit for other landscaping (see *Note below)	YES 1015
Subtotal (linear feet of perimeter - credits)	0
Number of trees required	
Shade Trees (1:50)	0
Evergreen Trees (1:40)	0
Number of trees provided	
Shade Trees	0
Other Trees (2:1 Substitution)	0
Evergreen Trees	0

* NOTE:
PLANTING DESIGN FOR STORMWATER MANAGEMENT POND
BASED ON "LANDSCAPING GUIDANCE FOR STORMWATER
BMP'S" PROVIDED BY MDE. THE LANDSCAPING STRATEGY
FOR THE POND ATTEMPTS TO CREATE AN ENVIRONMENTAL
AND AESTHETIC AMENITY THE FITS WITHIN ITS PARKLAND
CONTEXT INSTEAD OF SCREENING ITS VIEW FROM PARK
USERS AS SUGGESTED IN THE COUNTY LANDSCAPE MANUAL.
INCORPORATION OF NATIVE AND ADAPTED WETLAND
SPECIES HELPS TREAT STANDING WATER AT SEVERAL POOL
ELEVATIONS AND CONTRIBUTES TO A SUSTAINABLE
ENVIRONMENT FOR WATERFOWL, INSECTS AND AQUATIC
LIFE. TREES AND SHRUBS ARE LOCATED TO PROMOTE SOIL
STABILITY, INTEGRATE THE POND INTO ADJACENT WOODED
AREAS AND PROVIDE AN AESTHETICALLY-PLEASING
BACKDROP FOR VIEWS TO THE POND.

At the time of plant installation, all shrubs and trees listed and approved on the Landscape Plan, shall comply with the proper height requirement in accordance with the Howard County Landscape Manual. In addition, no substitutions or relocations of the required plantings may be made without prior review and approval from the Department of Planning and Zoning. Any deviation from the approved Landscape Plan may result in denial or delay in the final release of the landscape plan until such time as all required materials are planted and/or revisions are made to the applicable plans

The owner, tenants, and/or their agents shall be responsible for maintenance of the required landscaping including both plant materials and berms, fences and walls. All plant materials shall be maintained in good growing condition, and when necessary, replaced with new materials to ensure continued compliance with applicable regulations. All other required landscaping shall be permanently maintained in good condition, and when necessary, repaired or replaced.

This plan has been prepared in accordance with Section 16.124 of the Howard County Code and Landscape Manual with 203 shade trees, 11 ornamental trees, 100 evergreen trees and 956 shrubs.

Developer's/Owner's Landscape Certificate

I/we certify that the landscaping shown on this plan will be done according to the plan, Section 16.124 of the Howard County Code and the Landscape Manual. I/we further certify that upon completion a Letter of Landscape Installation, accompanied by an executed one year guarantee of plant materials, will be submitted to the Department of Planning and Zoning.

Ronald G. Lepson 2/22/10
Developer's/Owner's Name *Ronald G. Lepson*

REVISIONS	

HOWARD COUNTY

DEPARTMENT OF
RECREATION AND PARKS
7120 OAKLAND MILLS ROAD
COLUMBIA, MD 21046

DEPARTMENT OF
PUBLIC WORKS
9250 BENDIX ROAD
ELLCOTT CITY, MD 21043



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& ASSOCIATES, LLP
801 South Caroline Street, Baltimore, Maryland 21231
Phone: 410-235-3450 Fax: 410-245-5716

PROPERTY

TAX MAP 36, GRID 5, PARCEL 3,72

ZONING: RC-DEO

ELECTION DISTRICT 3/7

GRAPHIC SCALES

SIGNATURE

BLANDAIR REGIONAL
PARK - PHASE 1

Plant Schedules

Drawing No.

L2.5

Scale: NONE

Date: 12/18/09 Sheet 48 of 51

Des: CB Drawn: NS Check: CB

APPROVED: DEPARTMENT OF PLANNING AND ZONING

John D. ... 3/1/10
CHIEF, DEVELOPMENT ENGINEERING DIVISION
Thomas J. ... 4/08/10
CHIEF, DIVISION OF LAND DEVELOPMENT
Thomas J. ... 4/8/10
DIRECTOR

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS
B. Wilson for Peter ... 3/21/2010
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT



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800 Wyman Park Drive, Suite 100, Baltimore, MD 21211 USA
Tel. 410.236.6001 Fax. 410.236.6002



FCP TABLES

*This sheet Phase 1 only. See sheet 08 of 08 for overall phase and future estimated totals.

Phase 1 Forest to be Cleared	
Area 1	2310.8 SF
Area 2	14008.7 SF
Area 3	590.8 SF
Area 4	50633.1 SF
Area 5	97.9 SF
Area 6	168.6 SF
Area 7	9786.2 SF
Area 8	2748.5 SF
Area 9	1935.8 SF
Area 10	1064.1 SF
Area 11	5758.2 SF
Total	89102.7 SF / 2.04 Acres

Phase 1 Forest to be Retained	
Area 1	27,044.0 SF
Area 2	32,803.0 SF
Area 3	23,855.7 SF
Total	83,702.7 SF / 1.92 Acres

Phase 1 Other Clearing	
Total	17,594.6 SF / 0.40 Acres

Phase 1 Other Retention	
Total	1,222.1 SF / 0.03 Acres

SPECIMEN TREES*
*This sheet only. See Sheet 08 of 08 for complete list.

There are no specimen trees within the Phase 1 project boundaries.

FOREST CONSERVATION LEGEND

	Phase 1 Forest Clearing		Future Forest Clearing		Specimen Tree with Critical Root Zone
	Phase 1 Retained but Counted as Cleared (see Legend Note 1)		Future Retained but Counted as Cleared		Tree Protection Fence (no signage)
	Phase 1 Forest Retention		Future Forest Retention		Tree Protection Fence with Retention Signage (50 ft spacing)
	Phase 1 Other Retention (see Legend Note 2)		Future Other Retention		Phase 1 Project Boundary
	Phase 1 Other Clearing (see Legend Note 3)		Future Other Clearing		

LEGEND NOTES

- 1) The "Phase 1 Retained but Counted as Cleared" pattern represents existing forest areas to that will be reduced by proposed clearing to less than 35 feet in width or 10,000 square feet in area. The retained trees are no longer considered forest due to the reduction in width or area; therefore, these areas are counted as cleared.
- 2) The "Phase 1 Other Retention" pattern represents existing tree areas (non-forest) less than 35 feet in width or 10,000 square feet in area that will be retained. These areas are not counted as cleared, nor are they counted as retained.
- 3) The "Phase 1 Other Clearing" pattern represents existing tree areas (non-forest) less than 35 feet in width or 10,000 square feet in area that will be cleared.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 2/1/10
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
[Signature] 4/08/10
 CHIEF, DIVISION OF LAND DEVELOPMENT
[Signature] 4/8/10
 DIRECTOR

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS

[Signature] 3/31/2010
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT
 DATE 1/9/08

LEGEND

	Treeline		Wetland		15% < Slopes < 25%
	Shrubline		Stream		Slopes > 25%
	Individual Trees/Shrubs		Wetland Buffer		Property Line
	Existing Reforestation Plantings		Stream Buffer		Soil Boundary
	Gravel Path/Driveway		Floodplain Line		Existing Structure
			Grass Trail		

REVISIONS	

HOWARD COUNTY
 DEPARTMENT OF RECREATION AND PARKS
 7120 OAKLAND MILLS ROAD
 COLUMBIA, MD 21046
 DEPARTMENT OF PUBLIC WORKS
 9250 BENDIX ROAD
 ELLICOTT CITY, MD 21043

WR&A
 WHITMAN, REQUARDT & ASSOCIATES, LLP
 801 South Caroline Street, Baltimore, Maryland 21231
 Phone: 410-235-9450 Fax: 410-243-0716

PROPERTY
 TAX MAP 36, GRID 5, PARCEL 3,72
 ZONING: RC-DBO
 ELECTION DISTRICT 3/7

GRAPHIC SCALES

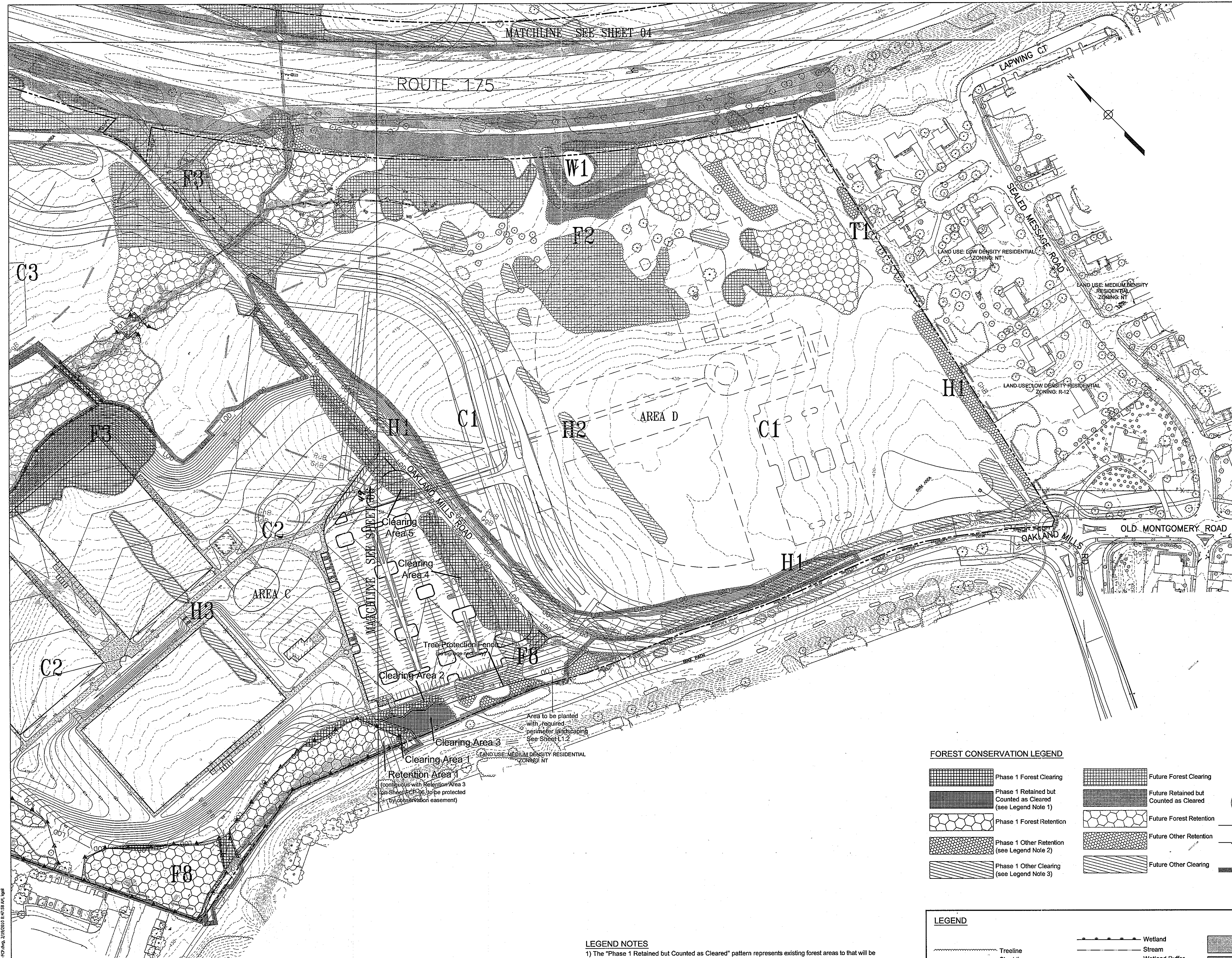
 SCALE: 1" = 100'

SIGNATURE
[Signature] 2/19/10
 KERRIE L. GRIFFIN
 MD DNR QUALIFIED PROFESSIONAL
 DATE

BLANDAIR REGIONAL PARK - PHASE 1

FOREST CONSERVATION PLAN
 Drawing No. **F1.1**

Scale: 1" = 100'
 Date: 02/19/10 Sheet 49 of 51
 Des: KLG Drawn: KLG Check: ATD



FCP TABLES
*This sheet Phase 1 only. See sheet 08 of 08 for overall phase and future estimated totals.

Phase 1 Forest to be Cleared	
Area 1	1,382.8 SF
Area 2	2,203.7 SF
Area 3	6,124.2 SF
Area 4	21,123.1 SF
Area 5	4,869.8 SF
Total	36,073.6 SF / 0.83 Acres

Phase 1 Forest to be Retained	
Area 1	1,047.7 SF
Total	1,047.7 SF / 0.02 Acres

Phase 1 Other Clearing	
Total	28,375.9 SF / 0.65 Acres

Phase 1 Other Retention	
Total	3,339.7 SF / 0.08 Acres

SPECIMEN TREES*
*This sheet only. See Sheet 08 of 08 for complete list.

There are no specimen trees within the Phase 1 project boundaries.

REVISIONS

No.	Description

HOWARD COUNTY

DEPARTMENT OF RECREATION AND PARKS
7120 OAKLAND MILLS ROAD
COLUMBIA, MD 21046

DEPARTMENT OF PUBLIC WORKS
9250 BENDIX ROAD
ELLCOTT CITY, MD 21043

WR&A

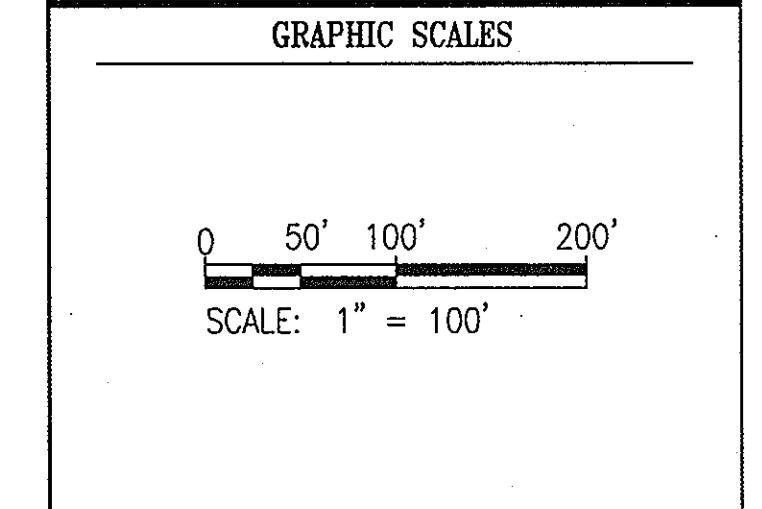
WHITMAN, REQUARDT & ASSOCIATES, LLP
801 South Caroline Street, Baltimore, Maryland 21231
Phone: 410-235-3450 Fax: 410-243-5716

PROPERTY

TAX MAP 36, GRID 5, PARCEL 3,72

ZONING: RC-DEO

ELECTION DISTRICT 3/7



SIGNATURE

Kerrie L. Geil 2/19/10
KERRIE L. GEIL DATE
MD DNR QUALIFIED PROFESSIONAL

BLANDAIR REGIONAL PARK - PHASE 1

FOREST CONSERVATION PLAN

Drawing No. **F1.2**

Scale: 1" = 100'

Date: 02/19/10 Sheet 50 of 51

Des: KLG Drawn: KLG Check: ATD

FOREST CONSERVATION LEGEND

	Phase 1 Forest Clearing		Future Forest Clearing
	Phase 1 Retained but Counted as Cleared (see Legend Note 1)		Future Retained but Counted as Cleared
	Phase 1 Forest Retention		Future Forest Retention
	Phase 1 Other Retention (see Legend Note 2)		Future Other Retention
	Phase 1 Other Clearing (see Legend Note 3)		Future Other Clearing

	Specimen Tree with Critical Root Zone
	Tree Protection Fence (no signage)
	Tree Protection Fence with Retention Signage (50 ft spacing)
	Phase 1 Project Boundary

LEGEND

	Treeline		Wetland		15% < Slopes < 25%
	Shrubline		Stream		Slopes > 25%
	Individual Trees/Shrubs		Wetland Buffer		Property Line
	Reforestation Plantings		Stream Buffer		Soil Boundary
	Gravel Path/Driveway		Floodplain Line		Existing Structure
			Grass Trail		

LEGEND NOTES

1) The "Phase 1 Retained but Counted as Cleared" pattern represents existing forest areas to that will be reduced by proposed clearing to less than 35 feet in width or 10,000 square feet in area. The retained trees are no longer considered forest due to the reduction in square footage; therefore, these areas are counted as cleared.

2) The "Phase 1 Other Retention" pattern represents existing tree areas (non-forest) less than 35 feet in width or 10,000 square feet in area that will be retained. These areas are not counted as cleared, nor are they counted as retained.

3) The "Phase 1 Other Clearing" pattern represents existing tree areas (non-forest) less than 35 feet in width or 10,000 square feet in area that will be cleared.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chad Dammann 2/1/10
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Neil Shubert 4/08/10
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Thomas F. Dutt 4/8/10
DIRECTOR DATE

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS

B. Wilson for Peter Beilerman 3/31/2010
COUNTY HEALTH OFFICER DATE

HOWARD COUNTY HEALTH DEPARTMENT
VCB DATE 1/9/0

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