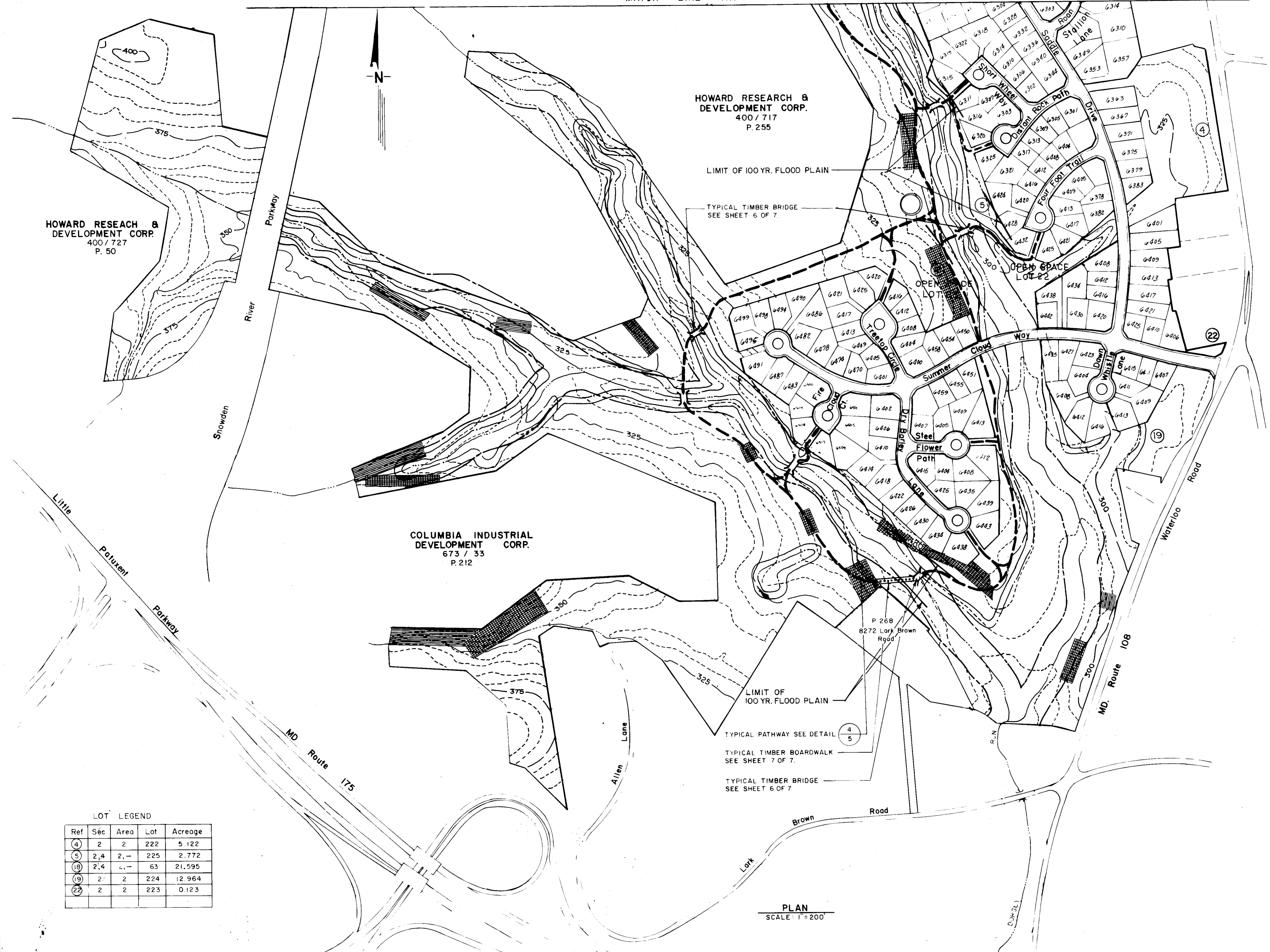




MATCH LINE AA



HOWARD RESEARCH & DEVELOPMENT CORP.  
400 / 727  
P. 50

HOWARD RESEARCH & DEVELOPMENT CORP.  
400 / 717  
P. 255

COLUMBIA INDUSTRIAL DEVELOPMENT CORP.  
673 / 33  
P. 212

LOT LEGEND

Ref	Sec	Area	Lot	Acres
4	2	2	222	5.122
5	2,4	2,-	225	2.772
18	2,4	-,	63	21.595
19	2	2	224	12.964
22	2	2	223	0.123

PLAN  
SCALE: 1" = 200'

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
REVIEWED NO FACILITIES REQUIRED  
DIRECTOR: *James J. ...* DATE: 5/5/92  
CHIEF, BUREAU OF ENGINEERING: *...* DATE: 4-29-92

APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
DIRECTOR: *James J. ...* DATE: 5/14/92  
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT: *Emma Helmuth* DATE: 5/13/92

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
REVIEWED NO FACILITIES REQUIRED  
COUNTY HEALTH OFFICER: *...* DATE: 5-11-92

APPROVED  
of EC...  
DATE: Nov. 26, 1991

- KEY
- PROPOSED PATHWAY
  - PROPOSED BRIDGE
  - PROPOSED BOARDWALK
  - FUTURE TOT LOT
  - NON-TIDAL WETLAND LIMIT
  - 25' WETLAND BUFFER
  - STREAM
  - 75' STREAM BUFFER
  - ▨ SLOPES 15% - 25%
  - ▨ SLOPES 25% AND GREATER

NOTE: THE LIMIT OF DISTURBANCE SHALL BE RESTRICTED TO A MAXIMUM OF A 10 FOOT WIDE STRIP FOR THE CONSTRUCTION OF PATHWAYS.

OWNER/DEVELOPER  
COLUMBIA PARK & RECREATION ASSOCIATION  
5829 BANNER ROAD  
COLUMBIA, MD 21044  
(301) 730-1003

ADDRESS CHART

BUILDING	STREET ADDRESS
PATH	8550 TAMAR DRIVE

SUBDIVISION NAME: KENDALL RIDGE  
SECTION/AREA: SEE SHEET 1 OF 7  
LOT: 223  
PLAT: N/A  
TAX ZONE: 36 B 37 6  
WATER CODE: N/A  
SEWER CODE: N/A

RESPONSIBLE PERSONNEL CERTIFICATION  
I HEREBY CERTIFY THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE FROM A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.  
SIGNATURE OF DEVELOPER: *Dennis Ellis* DATE: 2/10/92

CERTIFICATION BY THE ENGINEER  
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
SIGNATURE OF ENGINEER: *John M. Christman* DATE: 2/28/92  
JOHN M. CHRISTMAN, P.E.

CERTIFICATION BY THE DEVELOPER  
I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND ALSO AUTHORIZE PERIODIC ON SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS DEEMED NECESSARY.  
SIGNATURE OF DEVELOPER: *Dennis Ellis* DATE: 2/23/92

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
APPROVED: *John H. Robertson* 4/16/92  
HOWARD S.C.D.  
REVIEWED FOR HOWARD S.C.D. AND METS TECHNICAL REQUIREMENTS  
APPROVED: *John M. Stoltz* 4/16/92  
U.S. SOIL CONSERVATION SERVICE

revisions  
no. description date  
1 Response to comments & wetlands redeelineation. 2/27/92

STATE OF MARYLAND  
REGISTERED PROFESSIONAL ENGINEER  
JOHN M. CHRISTMAN, P.E.  
MD. NO. 14889

prepared by  
**RBA** ENGINEERS • ARCHITECTS • PLANNERS  
5560 STERRETT PLACE SUITE 300  
COLUMBIA MARYLAND 21044  
301 / 730-7950 621-6050

PATHWAY LAYOUT  
KENDALL RIDGE NEIGHBORHOOD  
OPEN SPACE MASTER PLAN  
VILLAGE OF LONG REACH  
HOWARD COUNTY MARYLAND

SCALE 1" = 200'  
DRAWN: T.R. CHECKED: L.D.T.  
PROJ NO: M0328 DATE: \_\_\_\_\_  
SHEET 2 OF 7  
SDR 92-40

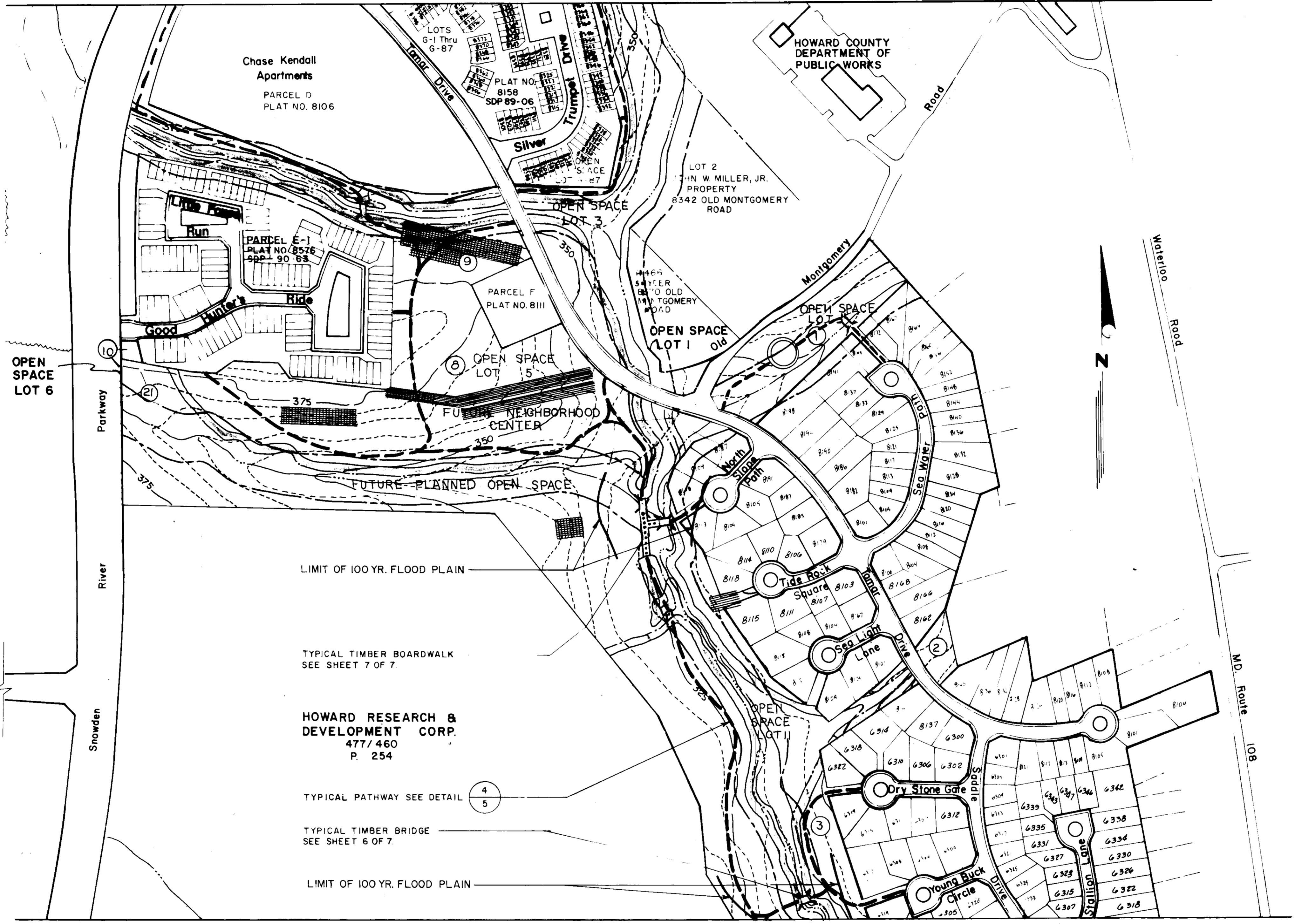
APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE SYSTEMS,  
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS,  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS,  
REVIEWED: NO FACILITIES REQUIRED  
DATE 5-5-92  
DIRECTOR  
DATE 4-29-92  
CHIEF, BUREAU OF ENGINEERING  
APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
DATE 5/14/92  
DIRECTOR  
DATE 5/13/92  
CHIEF, DIVISION OF COMMUNITY  
PLANNING AND LAND  
DEVELOPMENT  
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,  
HOWARD COUNTY HEALTH DEPARTMENT  
REVIEWED: NO FACILITIES REQUIRED  
DATE 5-11-92  
COUNTY HEALTH OFFICER

APPROVED  
PLANNING BOARD  
of HOWARD COUNTY  
DATE Nov. 26, 1991

MATCH LINE BB

LOT LEGEND

Ref.	Sec.	Area	Lot	Acres
1	2	1	115	3.163
2	2	1	116	0.400
3	2	1	117	9.574
8	3	2	5	6.402
9	3	2	7	9.3894
10	3	2	8	0.0909
20	3	1	1	0.250
21	3	2	6	0.240



- KEY
- PROPOSED PATHWAY
  - PROPOSED BRIDGE
  - PROPOSED BOARDWALK
  - FUTURE TOT LOT
  - NON-TIDAL WETLAND LIMIT
  - 25' WETLAND BUFFER
  - STREAM
  - 75' STREAM BUFFER
  - ▨ SLOPES 15% - 25%
  - ▨ SLOPES 25% AND GREATER

NOTE: THE LIMIT OF DISTURBANCE SHALL BE RESTRICTED TO A MAXIMUM OF A 10 FOOT WIDE STRIP FOR THE CONSTRUCTION OF PATHWAYS.

OWNER/DEVELOPER  
COLUMBIA PARK & RECREATION ASSOCIATION  
3829 BANNERER ROAD  
COLUMBIA, MD. 21044  
(301) 730-1003

ADDRESS CHART

BUILDING	STREET ADDRESS
TAX#	B250 TAMAR DRIVE

SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL
KENDALL RIDGE	SEE SHEET 1 OF 7	
PLAT	BLOCK ZONE	TAX ZONE MAP REF DIST CENSUS TR
SEE LIST N/A	NT OS	36 B 37 6 N/A
WATER CODE		SEWER CODE
N/A		N/A

MATCH LINE AA

RESPONSIBLE PERSONNEL CERTIFICATION  
"I HEREBY CERTIFY THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE FROM A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT."  
SIGNATURE OF DEVELOPER: Denis Ems  
DATE: 2/28/92

CERTIFICATION BY THE ENGINEER  
"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."  
SIGNATURE OF ENGINEER: John M. Christman  
DATE: 2/28/92

CERTIFICATION BY THE DEVELOPER  
"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS DEEMED NECESSARY."  
SIGNATURE OF DEVELOPER: Denis Ems  
DATE: 2/28/92

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT  
APPROVED: John L. Robertson 4/16/92  
HOWARD S.C.D.  
REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS  
APPROVED: John M. Christman 4/16/92  
U.S. SOIL CONSERVATION SERVICE

revisions  
no. 1 description: Response to comments & wetlands redelineation. date: 2/27/92  
STATE OF MARYLAND PROFESSIONAL ENGINEERS  
JOHN M. CHRISTMAN, P.E.  
MD. NO. 14889

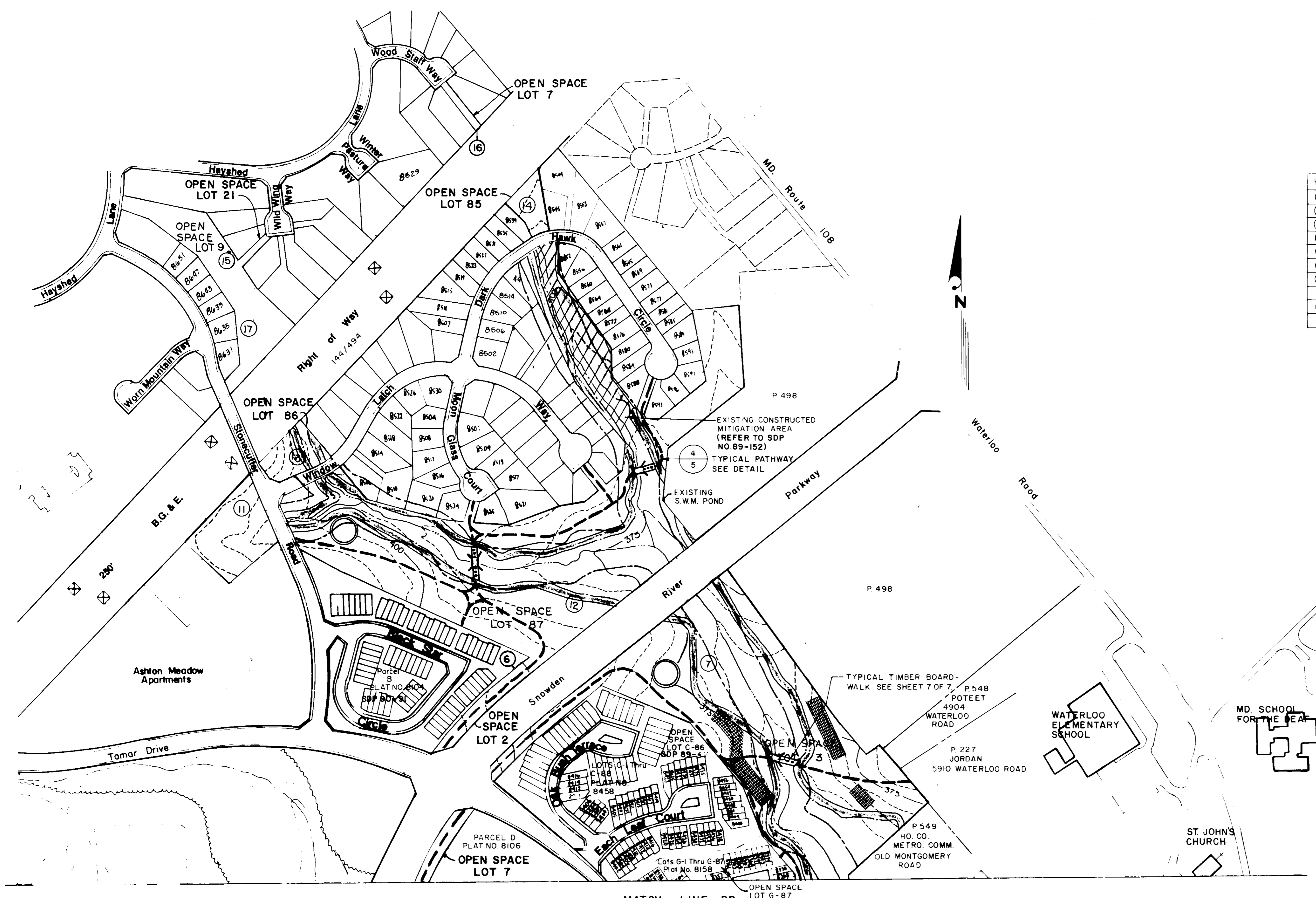
prepared by  
RBA ENGINEERS • ARCHITECTS • PLANNERS  
5560 STERRETT PLACE, SUITE 300  
COLUMBIA, MARYLAND 21044  
301 / 730-7950 621-6050

SCALE 1" = 200'  
DRAWN T.R. CHECKED L.D.T.  
PROJ. NO. M0328 DATE  
3 7  
SHEET OF  
KENDALL RIDGE NEIGHBORHOOD  
OPEN SPACE MASTER PLAN  
VILLAGE OF LONG REACH  
HOWARD COUNTY MARYLAND

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE SYSTEMS, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 REVIEWED: NO FACILITIES REQUIRED.  
 DIRECTOR: *James M. Smith* DATE: 5/5/92  
 CHIEF, BUREAU OF ENGINEERING: *John M. Christman* DATE: 4-23-92

APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
 DIRECTOR: *Joseph R. Kott* DATE: 5/14/92  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT: *Edmund J. Kolomac* DATE: 5/13/92

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
 REVIEWED: NO FACILITIES REQUIRED.  
 COUNTY HEALTH OFFICER: *Joseph B. ...* DATE: 5-11-92



LOT LEGEND

Ref	Sec	Area	Lot	Acres
(6)	3	2	2	0.527
(7)	3	2	3	18.962
(11)	3	3	88	1.580
(12)	3	3	87	17.707
(13)	3	3	86	0.673
(14)	3	3	85	0.465
(15)	1	11	21	0.032
(16)	1	11	7	0.047
(17)	1	12	9	2.223

- KEY
- PROPOSED PATHWAY
  - PROPOSED BRIDGE
  - PROPOSED BOARDWALK
  - FUTURE TOT LOT
  - NON-TIDAL WETLAND LIMIT
  - 25' WETLAND BUFFER
  - STREAM
  - 75' STREAM BUFFER
  - ▨ SLOPES 15% - 25%
  - ▨ SLOPES 25% AND GREATER

NOTE: THE LIMIT OF DISTURBANCE SHALL BE RESTRICTED TO A MAXIMUM OF A 10 FOOT WIDE STRIP FOR THE CONSTRUCTION OF PATHWAYS.

OWNER/DEVELOPER  
 COLUMBIA PARK & RECREATION ASSOCIATION  
 5829 BANNEKER ROAD  
 COLUMBIA, MD. 21044  
 (301) 730-1003

ADDRESS CHART  
 BUILDING STREET ADDRESS  
 PATH 8250 TAMAR DRIVE

SUBDIVISION NAME SECTION/AREA LOT/PARCEL  
 KENDALL RIDGE SEE SHEET 1 OF 7  
 PLAT BLOCK/ZONE TAX/ZONE MAP/FEET DIST TENSUS TR  
 SEE LIST N/A N/A 36 B 37 6 N/A  
 WATER CODE N/A SEWER CODE N/A

PLAN  
 SCALE: 1"=200'

<b>RESPONSIBLE PERSONNEL CERTIFICATION</b> I HEREBY CERTIFY THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE FROM A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. <i>Dehis Ems</i> 2/25/92 SIGNATURE OF DEVELOPER (PRINT NAME BELOW) DATE	<b>CERTIFICATION BY THE ENGINEER</b> I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. <i>John M. Christman</i> 2/28/92 SIGNATURE OF ENGINEER (PRINT NAME BELOW) DATE	<b>CERTIFICATION BY THE DEVELOPER</b> I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND ALSO AUTHORIZE PERIODIC ON SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS DEEMED NECESSARY. <i>Dehis Ems</i> 2/25/92 SIGNATURE OF DEVELOPER (PRINT NAME BELOW) DATE	THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT. APPROVED: <i>John M. Christman</i> 2/27/92 REVIEWED FOR HOWARD SOIL AND METEOROLOGICAL REQUIREMENTS: <i>James M. ...</i> 2/16/92 APPROVED: _____ DATE: _____ SOIL CONSERVATION SERVICE	no. description date 1 Response to comments & wetlands redelineation 2/27/92	prepared by <b>RBA</b> ENGINEERS • ARCHITECTS • PLANNERS 5560 STERRETT PLACE SUITE 300 COLUMBIA, MARYLAND 21044 301 730 7950 621-6050	<b>PATHWAY LAYOUT</b> KENDALL RIDGE NEIGHBORHOOD OPEN SPACE MASTER PLAN VILLAGE OF LONG REACH HOWARD COUNTY MARYLAND	SCALE: 1"=200' DRAWN T.R. CHECKED L.D.T. PROJ NO MO328 DATE 4 SHEET 7

**SEDIMENT AND EROSION CONTROL NOTES**

- ALL DISTURBED AREAS SHALL BE STABILIZED WITH PERMANENT SEED AND MULCH IN ACCORDANCE WITH PLANS APPROVED BY HSCD. APPROVAL OF FINAL STABILIZATION OF ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES BEFORE REMOVAL OF CONTROLS.
- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION. (880-3450)
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- FOLLOWING THE INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETE WITHIN: (A) SEVEN (7) CALENDAR DAYS AS TO THE SURFACE OF ALL PERMITS TO DISTURB AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) AND (B) FOURTEEN (14) DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- THE DEVELOPER SHALL IMPLEMENT AND ADEQUATELY MAINTAIN SEDIMENT AND EROSION CONTROL MEASURES INCLUDING LIMITING THE AREA OF DISTURBANCE TO EXISTING VEGETATION AND STEEP SLOPES FOR AREAS ADJACENT TO WETLANDS.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC. 51), SOO (SEC. 54) TEMPORARY SEEDING (SEC. 50), AND MULCHING (SEC. 52) TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF VEGETATION.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED IF DEEMED NECESSARY BY THE HOWARD COUNTY DEPT. OF PUBLIC WORKS SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES, DISTURBED AREAS IN EXCESS OF 2 ACRES APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- REFER TO 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR THE SOIL EROSION AND SEDIMENT CONTROL FOR THE STANDARD DETAILS AND DETAILED SPECIFICATIONS OF EACH PRACTICE SPECIFIED HEREIN.
- WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, MINOR FIELD ADJUSTMENTS CAN AND WILL BE MADE TO INSURE THE CONTROL OF ANY SEDIMENT, CHANGES IN SEDIMENT CONTROL PRACTICES REQUIRE PRIOR APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
- ANY CHANGE TO THE GRADING PROPOSED ON THIS PLAN REQUIRES RE-SUBMISSION TO HOWARD COUNTY SOIL CONSERVATION DISTRICT FOR APPROVAL.
- DUST CONTROL WILL BE PROVIDED FOR ALL DISTURBED AREAS REFER TO 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, PP 62.01 OR 62.02 FOR ACCEPTABLE METHODS AND SPECIFICATIONS FOR DUST CONTROL.
- ANY VARIATION FROM THE SEQUENCE OF OPERATIONS STATED ON THIS PLAN REQUIRES THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND THE HOWARD COUNTY SOIL CONSERVATION DISTRICT PRIOR TO THE INITIATION OF THE CHANGE.
- ANY DISTURBED EARTH LEFT IDLE FOR PERIODS EXCEEDING 14 DAYS SHALL BE STABILIZED ACCORDING TO TEMPORARY STABILIZATION SPECIFICATIONS.
- AT THE END OF EACH WORKING DAY ALL SEDIMENT CONTROL PRACTICE WILL BE INSPECTED AND LEFT IN OPERATIONAL CONDITION.
- ALL SEDIMENT AND EROSION CONTROL SHALL BE IN ACCORDANCE WITH THE AGREEMENT MADE BETWEEN COLUMBIA ASSOCIATION AND HSCD AND AS AMENDED 8/1/90.
- THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS, AND/OR RIGHTS-OF-WAYS THAT MAY BE REQUIRED FOR THE SEDIMENT AND EROSION CONTROL PRACTICES, STORMWATER MANAGEMENT PRACTICES AND THE DISCHARGE OF STORMWATER ONTO OR ACROSS ADJACENT OR DOWNSTREAM PROPERTIES INCLUDED IN THIS PLAN. HE IS ALSO RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAYS THAT MAY BE REQUIRED FOR GRADING AND/OR WORK ON ADJACENT PROPERTIES INCLUDED IN THIS PLAN.
- THE SEDIMENT CONTROL APPROVALS ON THIS PLAN EXTEND ONLY TO AREAS AND PRACTICES IDENTIFIED AS PROPOSED WORK AND SHALL APPLY AS IF SHOWN ON ALL PLANS.
- THE APPROVAL OF THE PLAN FOR SEDIMENT AND EROSION CONTROL DOES NOT RELIEVE THE DEVELOPER/CONSULTANT FROM COMPLYING WITH ANY FEDERAL/STATE/COUNTY REQUIREMENTS PERTAINING TO ENVIRONMENTAL ISSUES.

**DEVELOPERS CERTIFICATION**

( ) PROVIDE THE FOLLOWING CERTIFICATION BLOCKS ON SEDIMENT CONTROL PLANS.  
 (X) BY THE DEVELOPER:  
 I, John M. Christman, PE, hereby certify that all development and/or construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a certificate of attendance at a Department of Environment approved training program for the control of sediment and erosion before the beginning of the project. I also authorize permitting on-site inspection by the Howard Soil Conservation District.

SIGNATURE OF DEVELOPER: John M. Christman DATE: 2/28/92  
 PRINT NAME BELOW SIGNATURE: John M. Christman

**SEQUENCE OF CONSTRUCTION**

- OBTAIN GRADING PERMIT FROM HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS.
- NOTIFY MD. DEPARTMENT OF ENVIRONMENT TEN (10) DAYS PRIOR TO COMMENCING WORK. VERBAL NOTIFICATION IS TO BE FOLLOWED BY WRITTEN NOTICE WITHIN TEN (10) DAYS.
- NOTIFY INSPECTIONS, LICENSES AND PERMITS AT LEAST 48 HOURS BEFORE ANY WORK BEGINS.
- CLEAR AND GRUB FOR SEDIMENT AND EROSION CONTROL MEASURES ONLY. 2 DAYS
- INSTALL STABILIZED CONSTRUCTION ENTRANCES. 1 DAY
- INSTALL SEDIMENT AND EROSION CONTROL MEASURES ASSOCIATED WITH BRIDGE AND BOARDWALK CROSSING AREAS. 2 DAYS
- INSTALL BRIDGES AND BOARDWALKS TO AVOID DISTURBANCE TO EXISTING STREAM CHANNELS. 5 DAYS
- OBTAIN BUILDING PERMIT FOR CONSTRUCTION OF BRIDGES.
- INSTALL SILT FENCE ALONG THE PATH SECTION TO BE CONSTRUCTED. PLACE ON THE DOWNHILL SIDE OF THE PROPOSED PATH IN ACCORDANCE WITH THE HOWARD COUNTY SOIL CONSERVATION DISTRICT. DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS AND 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. 2 DAYS
- NOTIFY HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS. SEDIMENT CONTROL DIVISION UPON COMPLETION OF SAID INSTALLATION. 2 DAYS
- ALL PROPOSED PATHWAY LOCATIONS SHALL BE FIELD STAKED AND APPROVED BY THE PROJECT ENGINEER. PATHWAYS SHALL BE LAID OUT 30' FROM EXISTING STREAM CHANNELS WHERE OPEN SPACE PROPERTY LIMITS PERMIT. 2 DAYS
- WITH THE APPROVAL OF HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS AND THE SEDIMENT CONTROL INSPECTOR, CLEAR AND GRUB AREAS FOR PATHWAY CONSTRUCTION. 1 DAY
- GRADE AREAS FOR PATHWAY CONSTRUCTION AS CLOSE TO EXISTING GRADES AS POSSIBLE. CROSS SLOPES SHALL REFLECT EXISTING TOPOGRAPHIC CONDITIONS. 3 DAYS
- MAINTAIN POSITIVE DRAINAGE TO SEDIMENT CONTROL STRUCTURES. NO SLOPES SHALL EXCEED 3:1 SLOPE. STABILIZE ROUGH GRADED AREAS PER SPECIFICATIONS LISTED. 2 DAYS
- STABILIZE ALL DISTURBED AREAS IMMEDIATELY FOLLOWING INITIAL SOIL DISTURBANCE AND WITHIN 14 DAYS.
- INSTALL BASE COURSE AND BITUMINOUS ASPHALT AS REQUIRED TO MAINTAIN POSITIVE DRAINAGE FLOW. PERMANENTLY STABILIZE ALL DISTURBED AREAS ON EITHER SIDE OF PATHWAYS. 10 DAYS
- AFTER OBTAINING PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR, REMOVE ALL EROSION CONTROL DEVICES AND STABILIZE THOSE AREAS. 1 DAY

**PERMANENT SEEDING NOTES**

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: LEU OF SOIL TESTS RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

- PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 800 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.) BEFORE SEEDING. HARRROW OR DISC INTO UPPER THREE INCHES OF SOIL AT TIME OF SEEDING. APPLY 400 LB. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ. FT.)
- ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) BEFORE SEEDING. HARRROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING - FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (.05 LBS/1000 SQ. FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOO. OPTION (3) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

MULCHING - APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING.

MAINTENANCE - INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

**TEMPORARY SEEDING NOTES**

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: APPLY 60 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.)

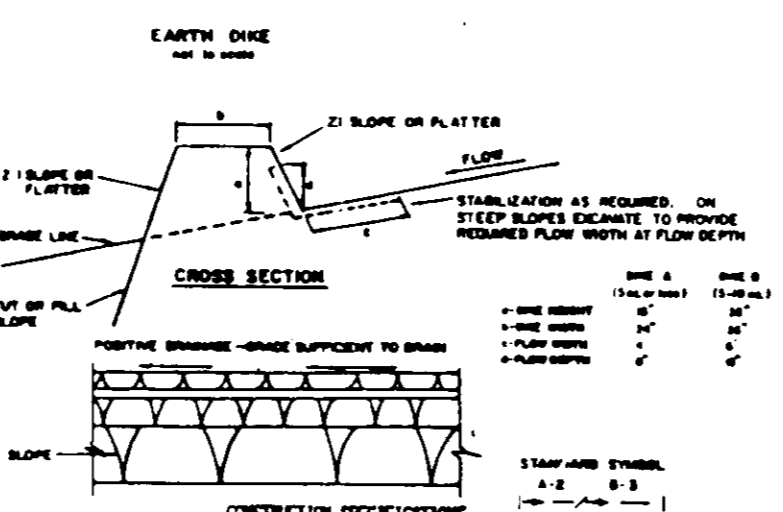
SEEDING: FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 15 THRU NOVEMBER 15, SEED WITH 2 1/2 BUSHELS PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ. FT.) FOR THE PERIOD OF MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (.07 LBS/1000 SQ. FT.) FOR THE PERIOD OF NOVEMBER 16 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOO.

MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING. REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

**SITE TABULATIONS**

1. PROPOSED BITUMINOUS PATHWAY 20,710 SF TOTAL 124,380 SF TOTAL	5. TOTAL CUT 1,813 CY. THE CONTRACTOR SHALL TRANSPORT EXCESS SOIL MATERIAL TO THE ALPHA RIDGE LANDFILL, 2750 HARRIOTTVILLE ROAD, HARRIOTTVILLE, MD 21104. 301 442-1160
2. PROPOSED TIMBER BRIDGE CROSSINGS 14 EA. TOTAL	6. DISTURBED WETLANDS (PERMANENT) 406 SF TOTAL
3. PROPOSED TIMBER BOARDWALK 580 LF TOTAL 4,440 SF TOTAL	7. DISTURBED STREAM BUFFER (PERMANENT) 9,810 SF TOTAL 0.21 AC TOTAL
4. DISTURBED AREA FOR PATHWAY, BOARDWALK AND BRIDGE CONSTRUCTION (TEMPORARY) 217,200 SF TOTAL 4.99 AC TOTAL	



**EARTH DIKE NOTES**

CERTIFICATION BY THE ENGINEER  
 I, John M. Christman, PE, certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the HOWARD SOIL CONSERVATION DISTRICT.

SIGNATURE OF ENGINEER: John M. Christman DATE: 2/28/92  
 PRINT NAME BELOW: JOHN M. CHRISTMAN, PE

CERTIFICATION BY THE DEVELOPER  
 I, John M. Christman, certify that all development and/or construction will be done according to this plan of development and plan for erosion and sediment control and I also authorize periodic on-site inspection by the HOWARD SOIL CONSERVATION DISTRICT OR OTHER AUTHORIZED AGENTS, AS DEEMED NECESSARY.

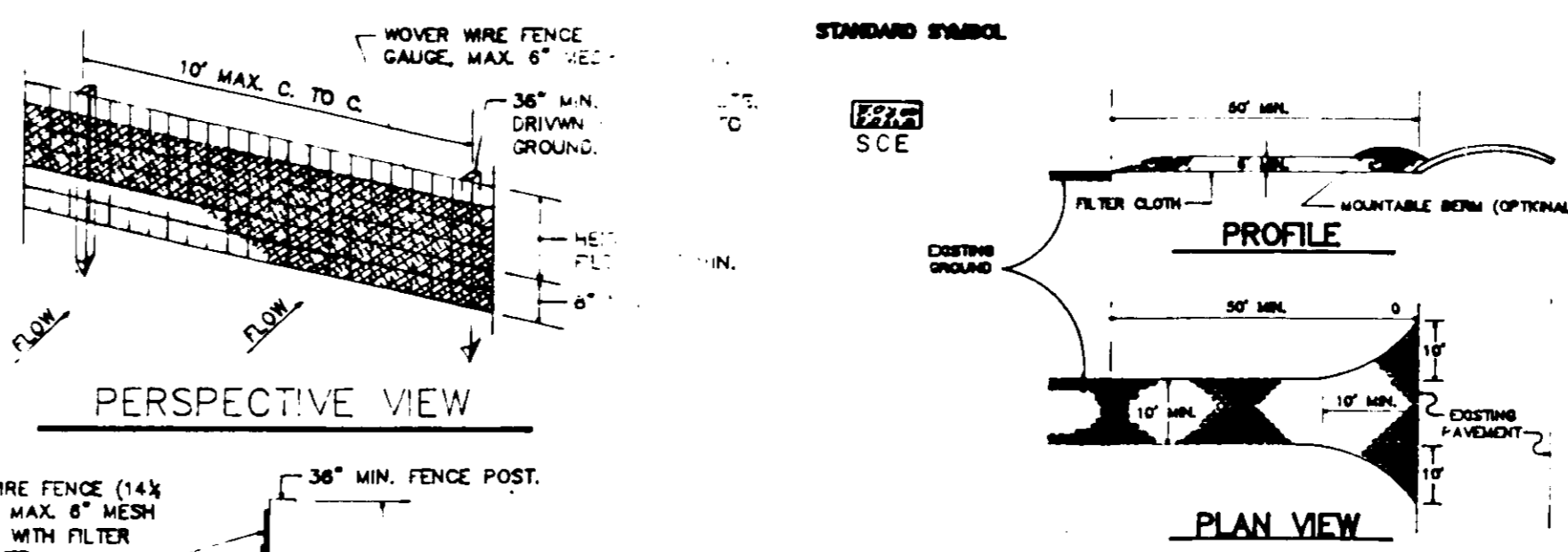
SIGNATURE OF DEVELOPER: John M. Christman DATE: 2/28/92  
 PRINT NAME BELOW: JOHN M. CHRISTMAN

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

APPROVED: John R. Robertson DATE: 4/16/92  
 HOWARD SCD

REVISIONS FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS.

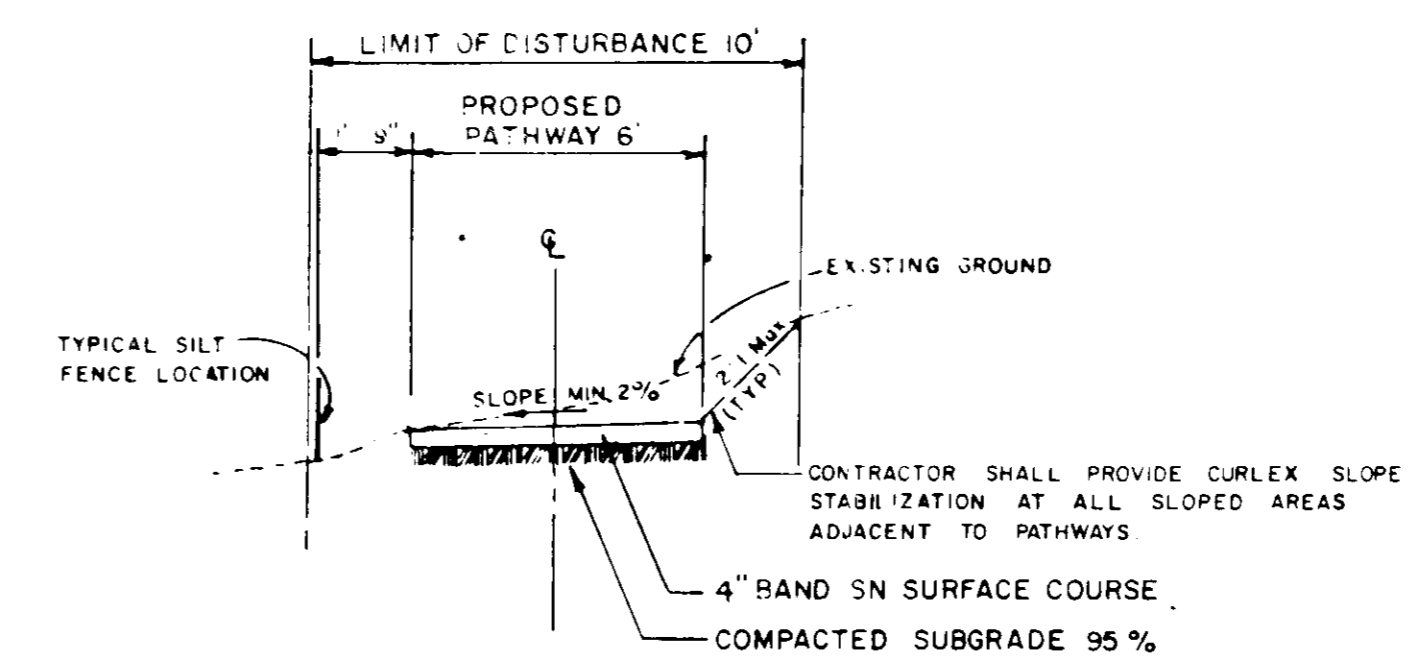
APPROVED: John M. Christman DATE: 4/16/92  
 US SOIL CONSERVATION SERVICE



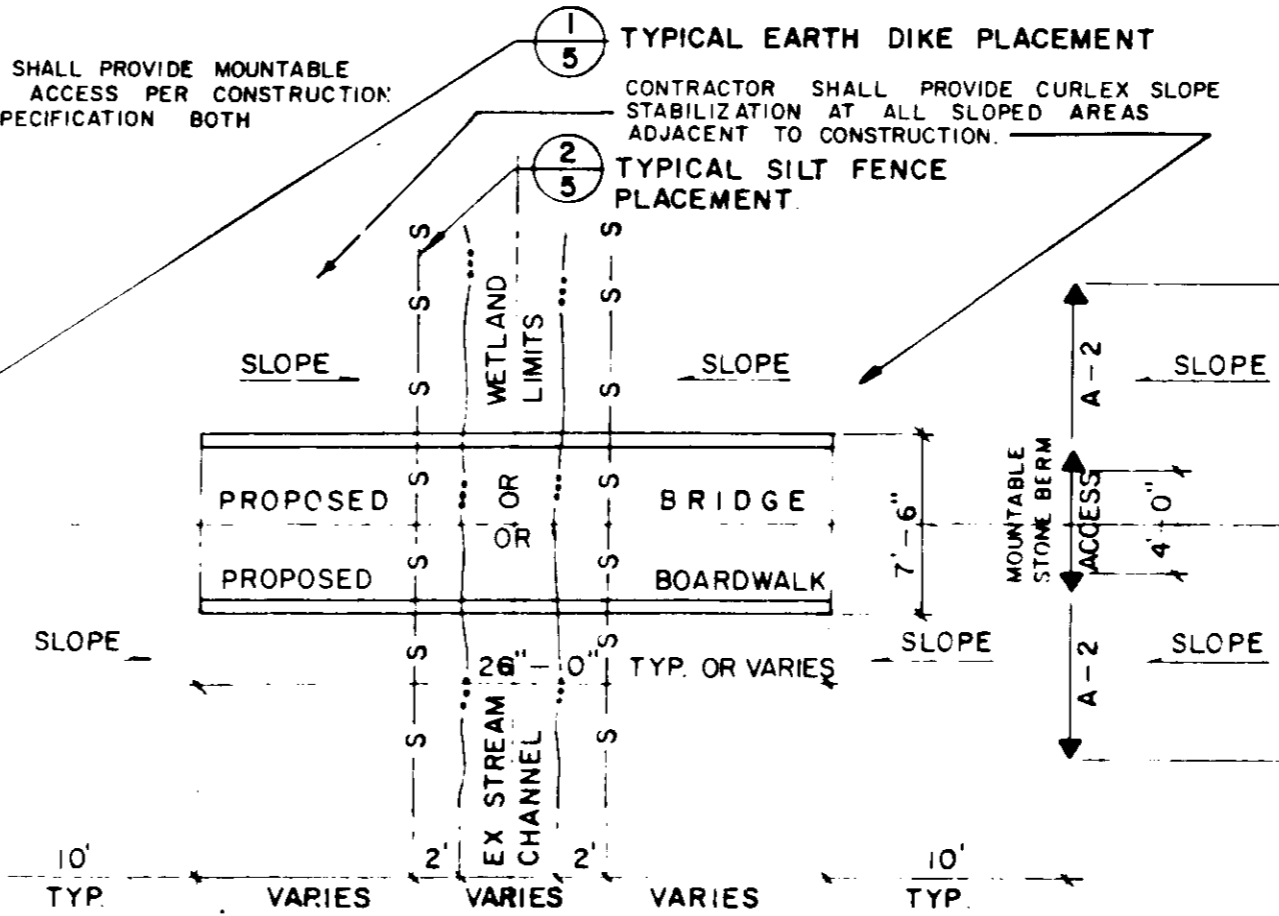
- CONSTRUCTION SPECIFICATIONS**
- STONE USE - USE OF STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
  - LENGTH - AS REQUIRED, BUT NOT LESS THAN 30 FEET (EXCEPT ON A SINGLE REDUNDANT LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
  - THICKNESS - NOT LESS THAN SIX (6) INCHES.
  - BOTH - TOP (TO FOOT) MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE TURNING OR TURNING OCCURS.
  - FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER WILL NOT BE REQUIRED ON A SINGLE FAMILY REDUNDANT LOT.
  - SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCE SHALL BE PAVED ACROSS THE ENTRANCE. IF PAVING IS IMPRACTICAL, A MOUNTABLE BERM SHALL BE PAVED ACROSS THE ENTRANCE.
  - WITH 6:1 SLOPES WILL BE PERMITTED.
  - MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY WEARWAYS USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, BURNED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
  - SHIPPING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN NECESSARY, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINAGE INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
  - PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

**2 SILT FENCE N.T.S.**

**3 STABILIZED CONSTRUCTION ENTRANCE N.T.S.**



**4 TYPICAL PATHWAY CROSS SECTION N.T.S.**



**5 BRIDGE AND BOARDWALK INSTALLATION PLAN N.T.S.**

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE SYSTEMS, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 REVIEWED: NO FACILITIES REQUIRED.

James R. ... DATE: 5/29/92  
 DIRECTOR

... DATE: 4/22/92  
 CHIEF OF BUREAU OF ENGINEERING

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

James R. ... DATE: 5/14/92  
 DIRECTOR

... DATE: 5/13/92  
 CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
 REVIEWED: NO FACILITIES REQUIRED.

... DATE: 5/11/92  
 COUNTY HEALTH OFFICER

Nov. 26, 1991

OWNER/DEVELOPER  
 COLUMBIA PARK & RECREATION ASSOCIATION  
 5829 BANNEKER ROAD  
 COLUMBIA, MD. 21044  
 (301) 730-1003

ADDRESS CHART  
 BUILDING STREET ADDRESS

SUBDIVISION NAME	SECTION/AREA	LOT/MARCEL
KENDALL RIDGE	SEE SHEET 1 OF 7	
PLAT	BLOCK	TAX ZONE
SEE LIST N/A	NT	36 B 37
		6
		N/A
WATER CODE	SEWER CODE	
N/A	N/A	

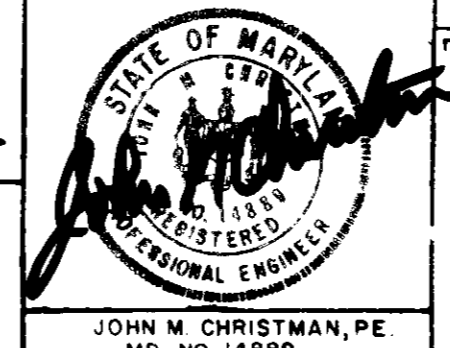
**SEDIMENT & EROSION CONTROL AND SITE DETAIL SHEET**

KENDALL RIDGE NEIGHBORHOOD  
 OPEN SPACE MASTER PLAN  
 VILLAGE OF LONG REACH

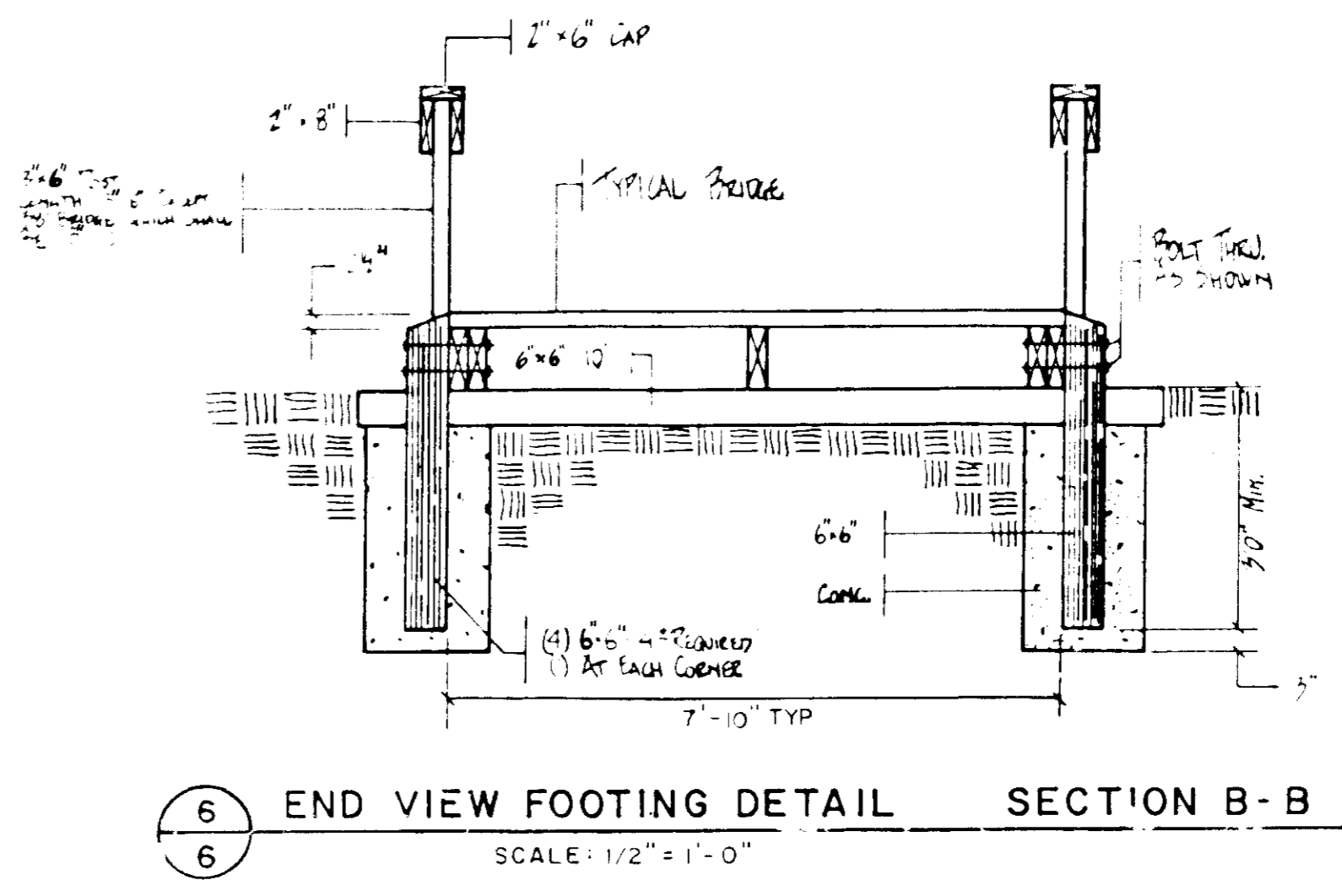
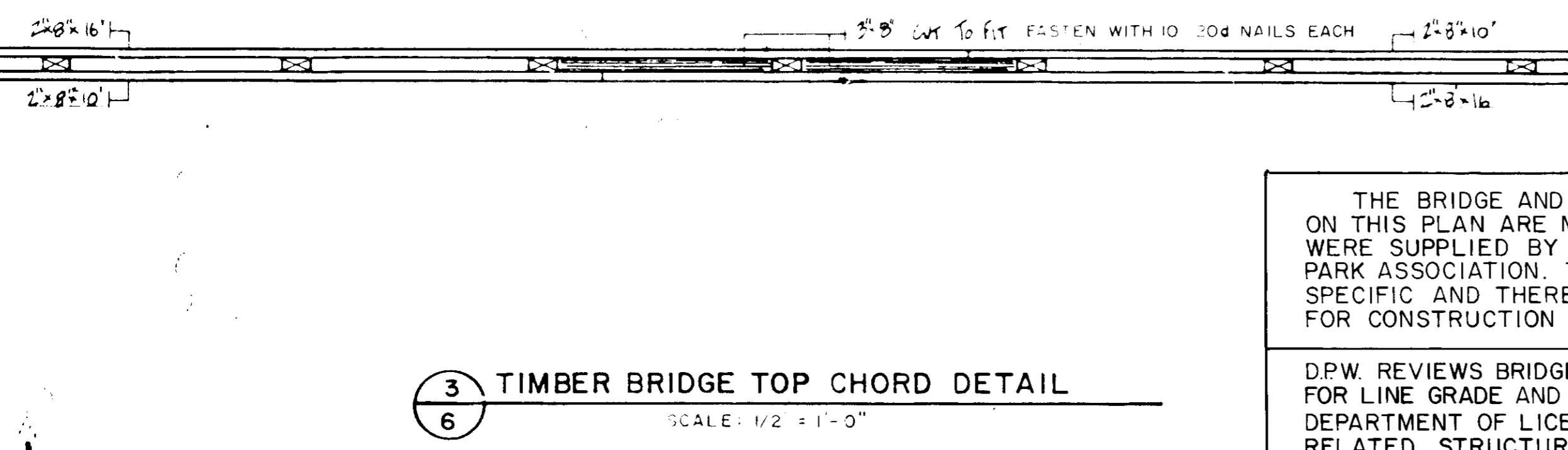
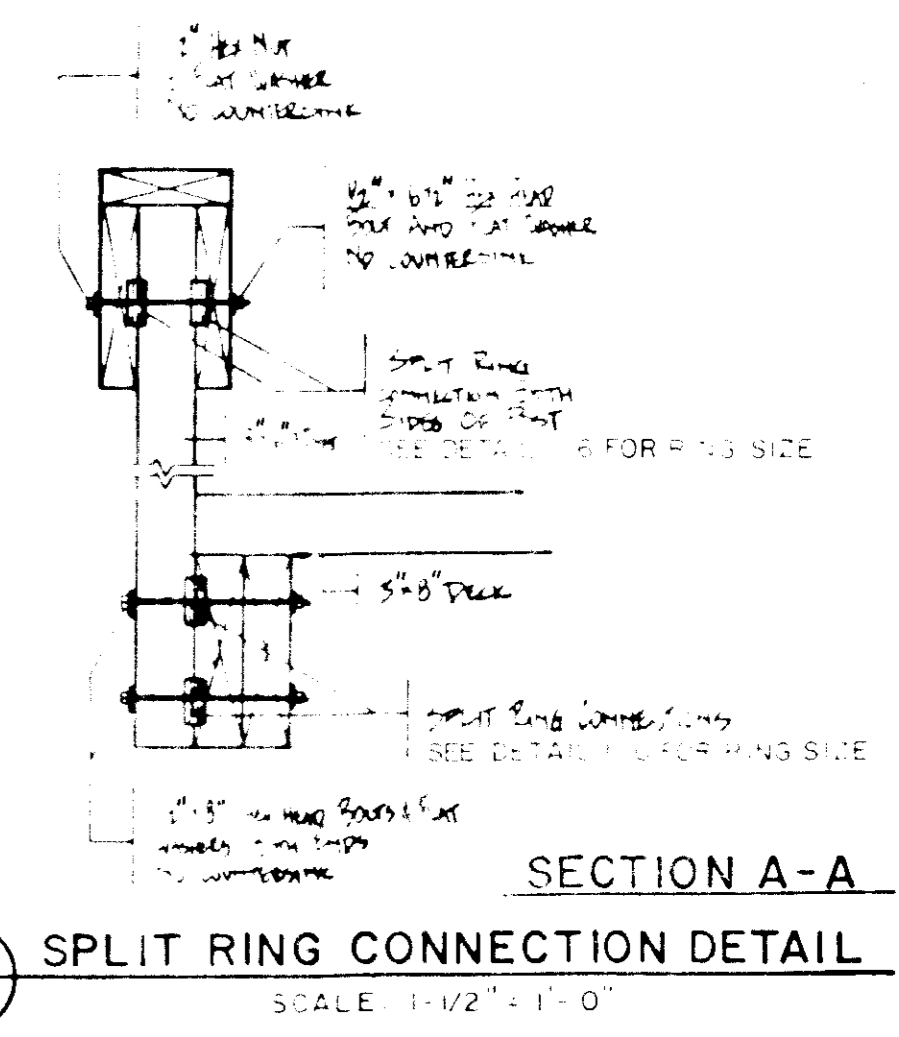
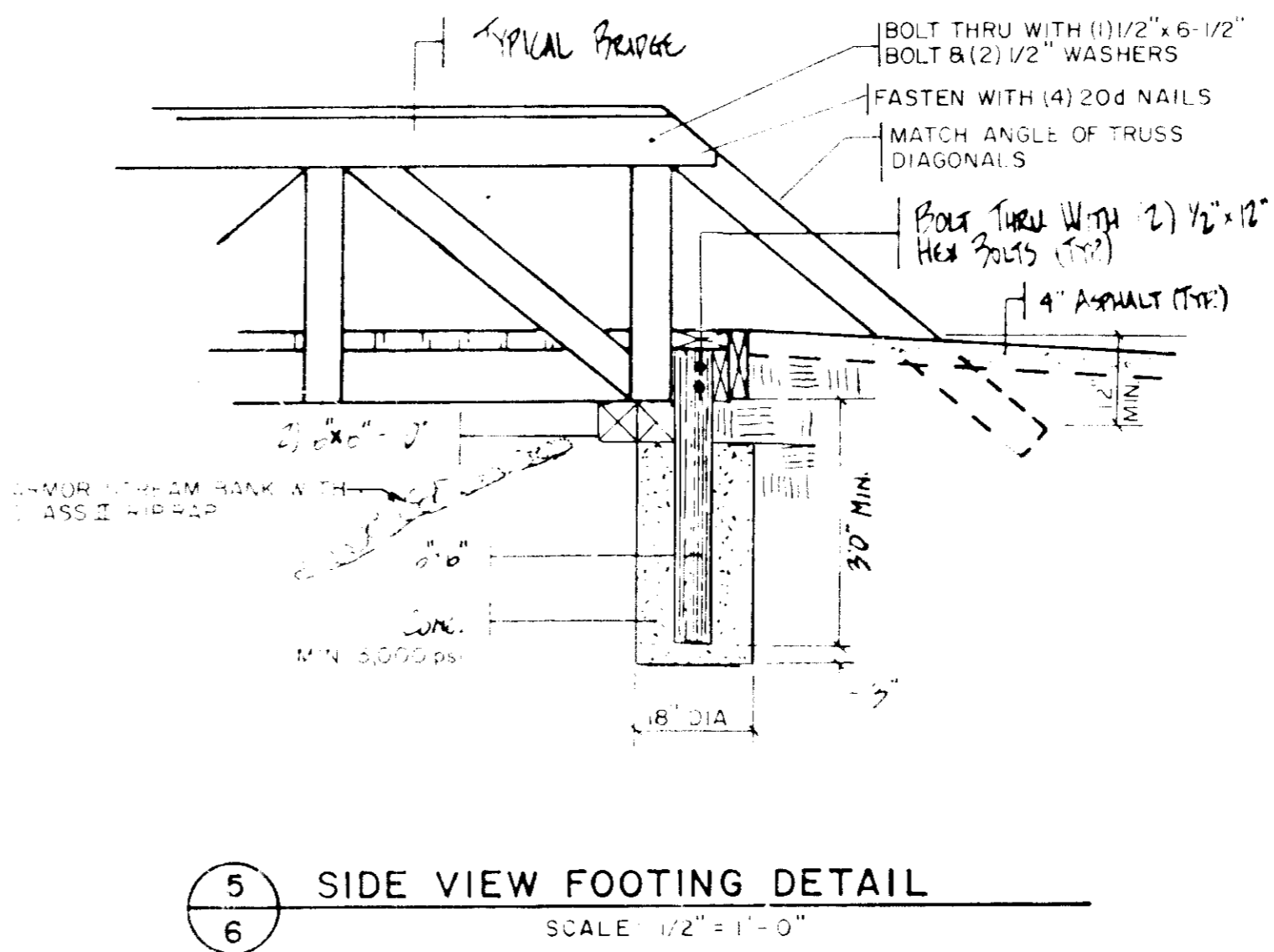
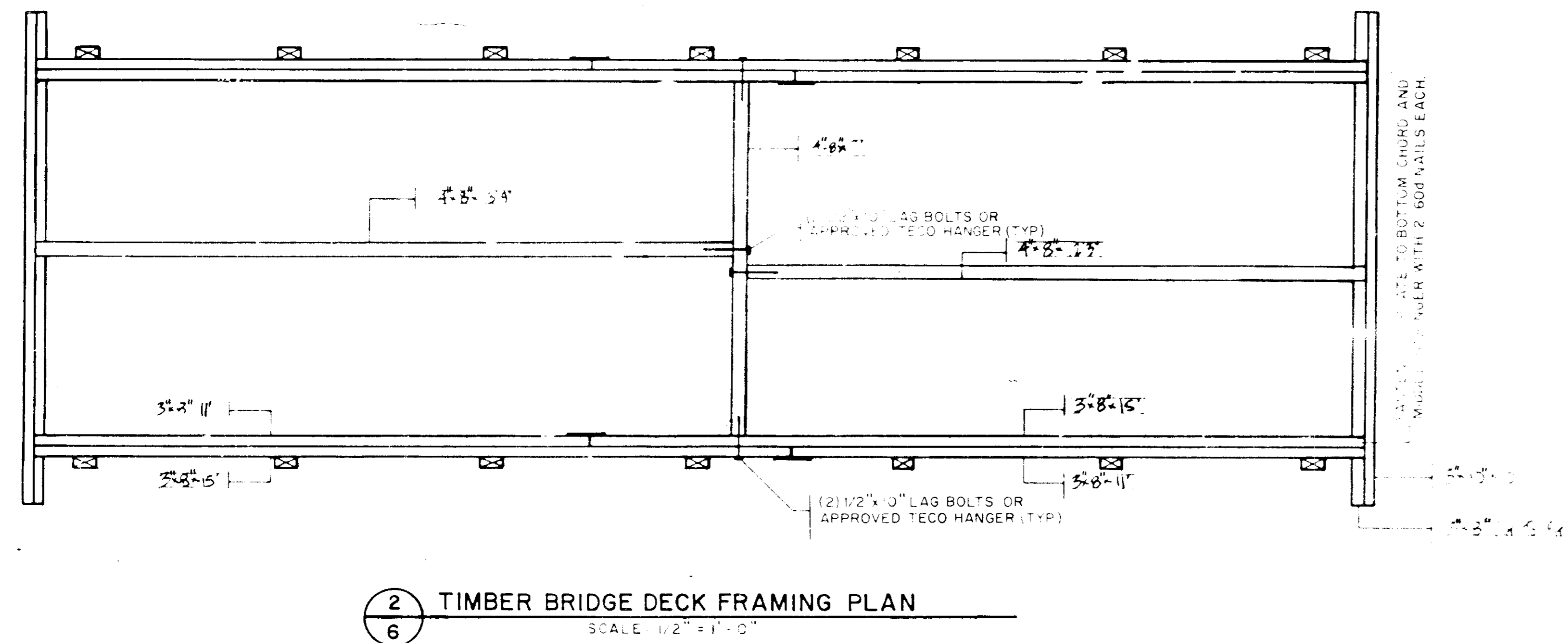
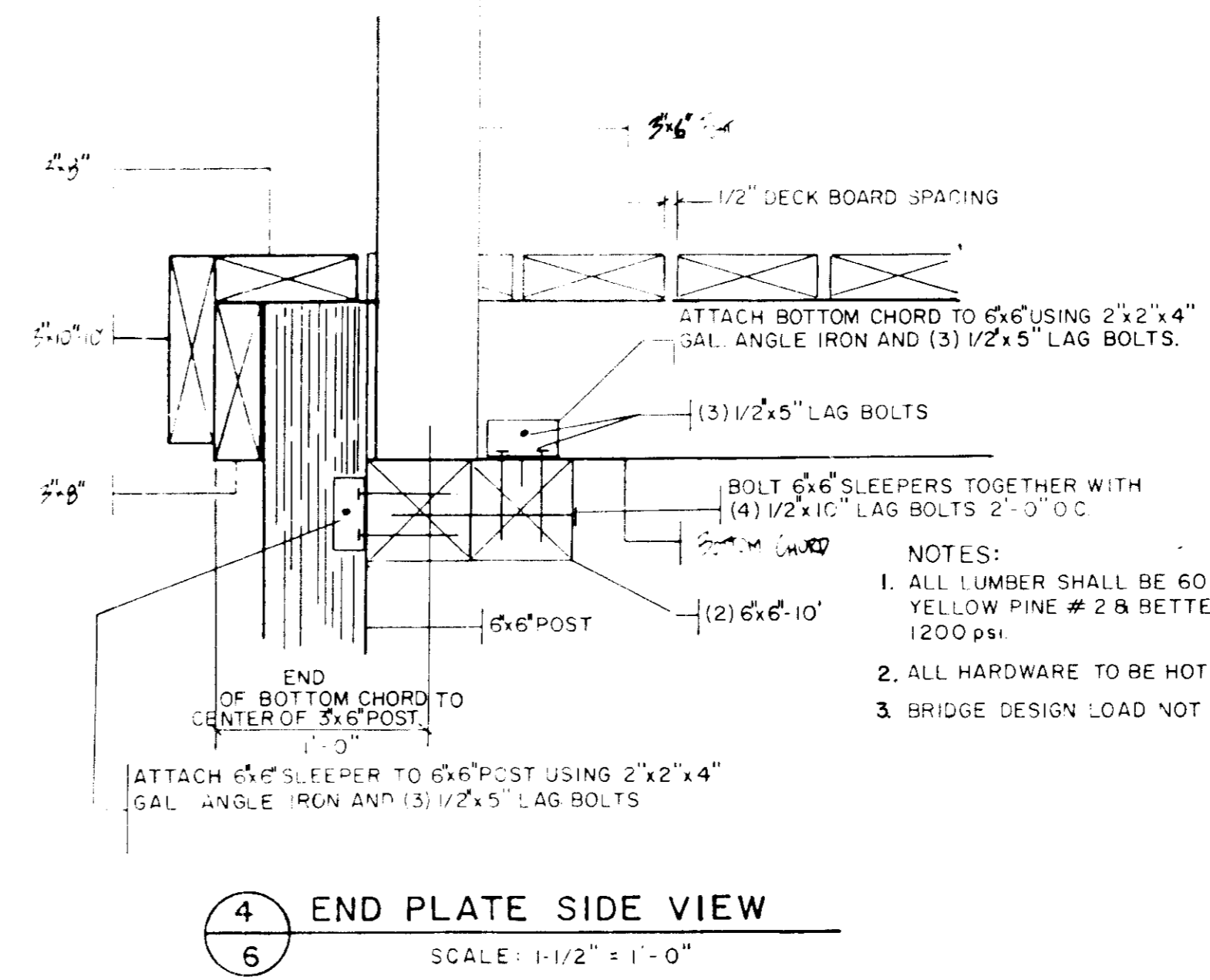
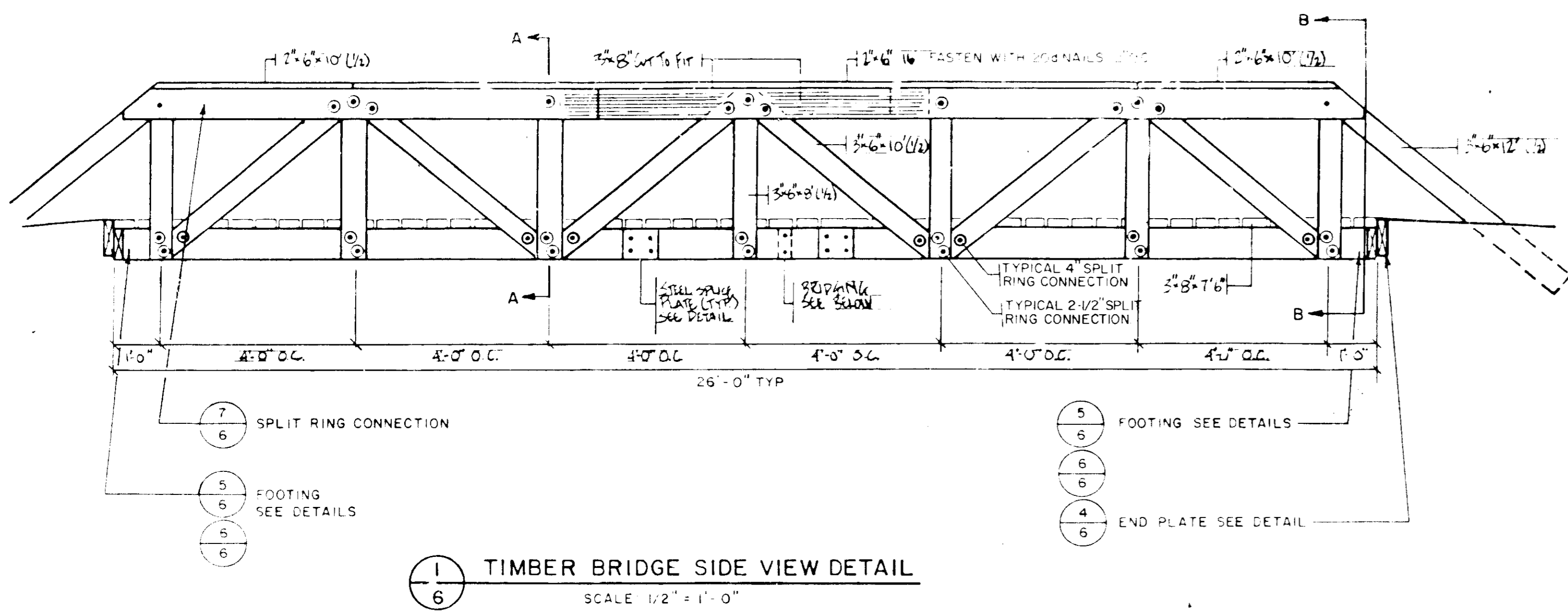
SCALE AS SHOWN

DRAWN TR	CHECKED LDT
PROJ. NO. MO328	DATE
5	7
SHEET	OF

HOWARD COUNTY MARYLAND



prepared by  
**RBA** ENGINEERS • ARCHITECTS • PLANNERS  
 5560 STERRETT PLACE, SUITE 300  
 COLUMBIA, MARYLAND 21044  
 301 / 730-7950 621-6050



THE BRIDGE AND BOARDWALK DETAILS SHOWN ON THIS PLAN ARE MINIMUM STANDARDS AND WERE SUPPLIED BY COLUMBIA RECREATION AND PARK ASSOCIATION. THEY ARE NOT SITE SPECIFIC AND THEREFORE SHALL NOT BE USED FOR CONSTRUCTION PURPOSES.

D.P.W. REVIEWS BRIDGE AND BOARDWALK DRAWINGS FOR LINE GRADE AND FLOODPLAIN IMPACT ONLY. DEPARTMENT OF LICENSE AND PERMITS PERFORM RELATED STRUCTURAL REVIEW.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
REVIEWED: NO FACILITIES REQUIRED.  
DATE: 5-5-92

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
REVIEWED: NO FACILITIES REQUIRED.  
DATE: 5-11-92

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
REVIEWED: NO FACILITIES REQUIRED.  
DATE: 5-13-92

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
REVIEWED: NO FACILITIES REQUIRED.  
DATE: 5-14-92

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
REVIEWED: NO FACILITIES REQUIRED.  
DATE: 5-13-92

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
REVIEWED: NO FACILITIES REQUIRED.  
DATE: 5-11-92

RECEIVED  
DATE: Nov. 26, 1991

OWNER/DEVELOPER	
COLUMBIA PARK & RECREATION ASSOCIATION 5829 BANNEKER ROAD COLUMBIA, MD. 21044 (301) 730-1003	
ADDRESS	CHART
BUILDING	STREET ADDRESS
SUBDIVISION NAME	
KENDALL RIDGE	
SECTION/A/EA	LOT/PARCEL
SEE SHEET 1 OF 7	
PLAT	BLOCK/ZONE
SEE LIST N/A	OS 36 & 37
DATE	CENSUS TR
	6 N/A
WATER CODE	SEWER CODE
N/A	N/A

<b>RESPONSIBLE PERSONNEL CERTIFICATION</b> I HEREBY CERTIFY THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE FROM A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. DATE: 2/20/92 SIGNATURE: [Signature] PRINT NAME: JOHN M. CHRISTMAN, P.E.	<b>CERTIFICATION BY THE ENGINEER</b> I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. DATE: 2/20/92 SIGNATURE: [Signature] PRINT NAME: JOHN M. CHRISTMAN, P.E.	<b>CERTIFICATION BY THE DEVELOPER</b> I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND ALSO AUTHORIZE PERIODIC INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS DETERMINED NECESSARY. DATE: 2/20/92 SIGNATURE: [Signature] PRINT NAME: JOHN M. CHRISTMAN, P.E.	THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT. APPROVED: [Signature] 4/16/92 DATE: 4/16/92 REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS. APPROVED: [Signature] 4/16/92 DATE: 4/16/92	<b>REVISIONS</b> no. 1 description: Response to comments & wetlands redelineation. date: 2/27/92	<b>prepared by</b> <b>RBA</b> ENGINEERS, ARCHITECTS, PLANNERS 5560 STERRETT PLACE, SUITE 100 COLUMBIA, MARYLAND 21044 301 / 730-7950 621-6050	<b>TYPICAL BRIDGE DETAILS</b> SCALE: AS SHOWN DRAWN: [Signature] (CHECKED) LDJ LOT: [Signature] PROJ. NO. DATE: MO328 SHEET 6 OF 7 HOWARD COUNTY MARYLAND
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