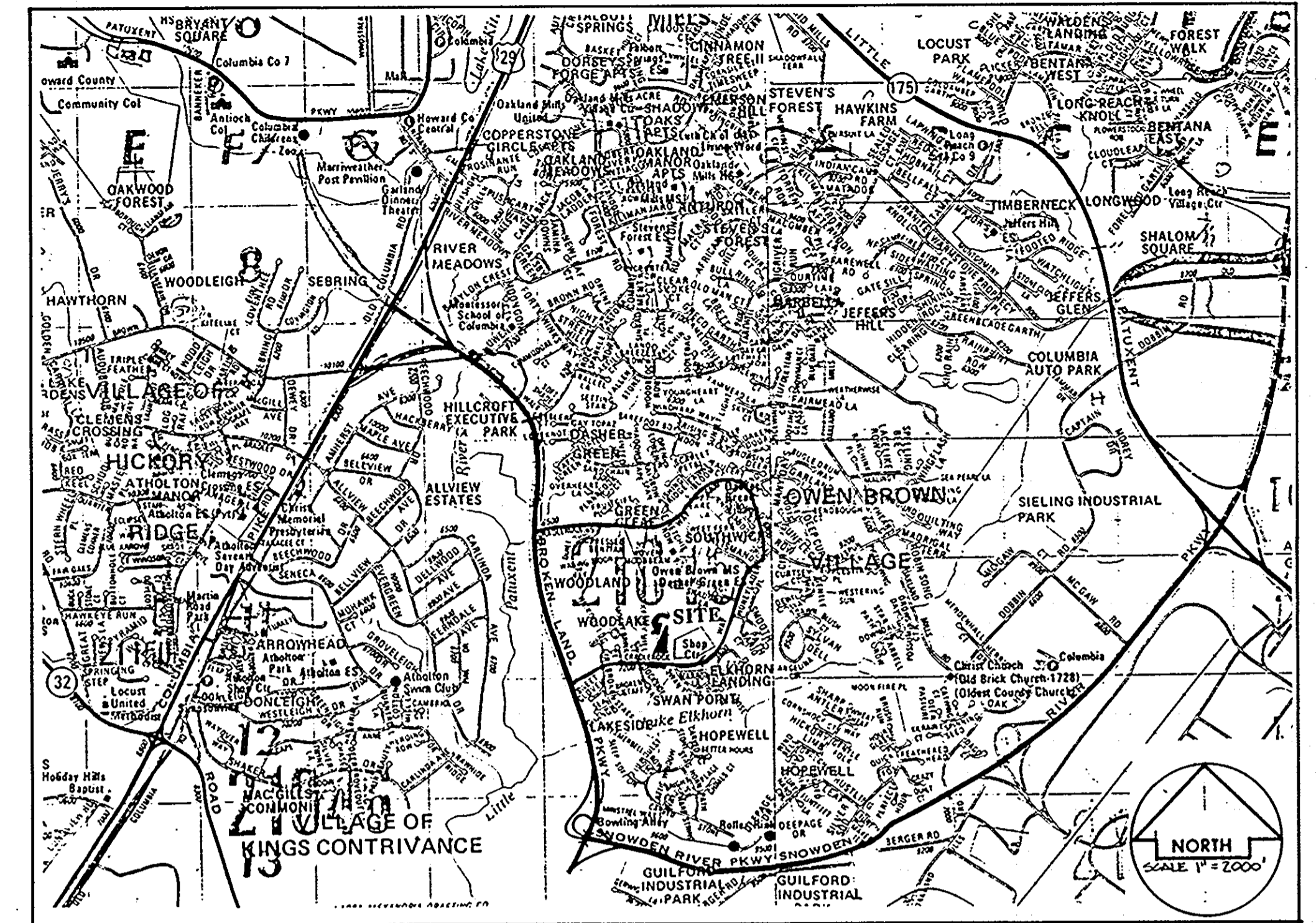


General notes:

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MDOT STANDARDS AND SPECIFICATIONS WHERE APPLICABLE.
- CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS:

MISS UTILITY	1-800-257-7777
C&P TELEPHONE COMPANY	725-9976
HOWARD COUNTY BUREAU OF UTILITIES	313-4900
AT&T CABLE LOCATION DIVISION	393-3553
BALTIMORE GAS & ELECTRIC COMPANY	695-0123
HOWARD COUNTY CONSTRUCTION / INSPECTION SURVEY DIVISION	313-1880
- TREES ADJACENT TO THE PATHWAY CONSTRUCTION ARE TO BE PROTECTED WITH TREE PROTECTIVE FENCING.
- A WAIVER HAS BEEN SUBMITTED FOR STORM WATER MANAGEMENT QUANTITY AND QUALITY CONTROL. A FEE IN LIEU OF STORMWATER MANAGEMENT HAS BEEN REQUESTED.
- THE CONTRACTOR SHALL STAKEOUT AND CONSTRUCT PATH CONNECTIONS IN A MANNER THAT AVOIDS IMPACT TO EXISTING UTILITIES AND SHALL MEET EXISTING SIDEWALKS AND/OR CURBS WHEN FEASIBLE.
- ALL PROPOSED IMPROVEMENTS SHALL BE MAINTAINED BY THE OWNER.
- THE LIMIT OF DISTURBANCE FOR PATHWAY CONSTRUCTION SHALL BE RESTRICTED TO A 14 FOOT WIDE CORRIDOR FOR ALL ENCROACHMENTS UPON THE WETLAND/STREAM BUFFERS AS INDICATED.
- LOCATE THE PATH WITHIN THE EXISTING CLEARED AREA WHEREVER POSSIBLE ON OPEN SPACE LOT 280.
- SITE REFERENCE FILE NO.: VOB 1/1 OPEN SPACE LOTS 280 AND 379, F-72-85C, FDP PHASE 113-A-IX; AND VOB 1/3, PARCEL B-4, F-77-52, F-78-165C, FDP PHASE 150-A-1.
- ALL ROADS ARE PUBLIC.
- TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- ALL PLAN DIMENSIONS ARE TO THE CENTER LINE OF THE PATHWAY UNLESS OTHERWISE NOTED.
- CONTOUR INTERVALS (2) ARE BASED ON A FIELD RUN SURVEY BY: RBA, INC. DATED OCTOBER, 1991.
- ALL HORIZONTAL AND VERTICAL CONTROLS ARE BASED ON HOWARD COUNTY BENCHMARKS.
- EXISTING WATER AND SEWER FACILITIES ARE PUBLIC.
- 100 YEAR FLOODPLAIN ELEVATION WAS COMPUTED BY PHOENIX ENGINEERING, INC.
- WETLAND DELINEATION PERFORMED BY EXPLORATION RESEARCH, INC.
- A TRAFFIC STUDY IS NOT REQUIRED FOR THIS SITE.
- EXISTING UTILITIES WERE LOCATED FROM AS BUILT PLANS AND FIELD CHECKED WHENEVER POSSIBLE. THE CONTRACTOR SHALL VERIFY THEIR LOCATION TO HIS OWN SATISFACTION.
- THE CONTRACTOR SHALL NOTE THAT IN THE CASE OF DISCREPANCY BETWEEN THE SCALED AND FIGURED DIMENSIONS SHOWN ON THESE PLANS, THE FIGURED DIMENSIONS SHALL GOVERN.
- PROPOSED LIGHT POLES AND HARDWARE TO MATCH EXISTING FIXTURES ON SITE.
- THE PURPOSE OF THIS PLAN IS TO SHOW CONSTRUCTION OF THE PROPOSED IMPROVEMENTS LISTED HERE: PAVED PATHWAY, STORM DRAINAGE IMPROVEMENTS, LIGHTING, LANDSCAPING, CONCRETE STEPS AND RAILINGS.

Location Map:



OWEN BROWN PATHWAY CONNECTOR

VOB 1/1

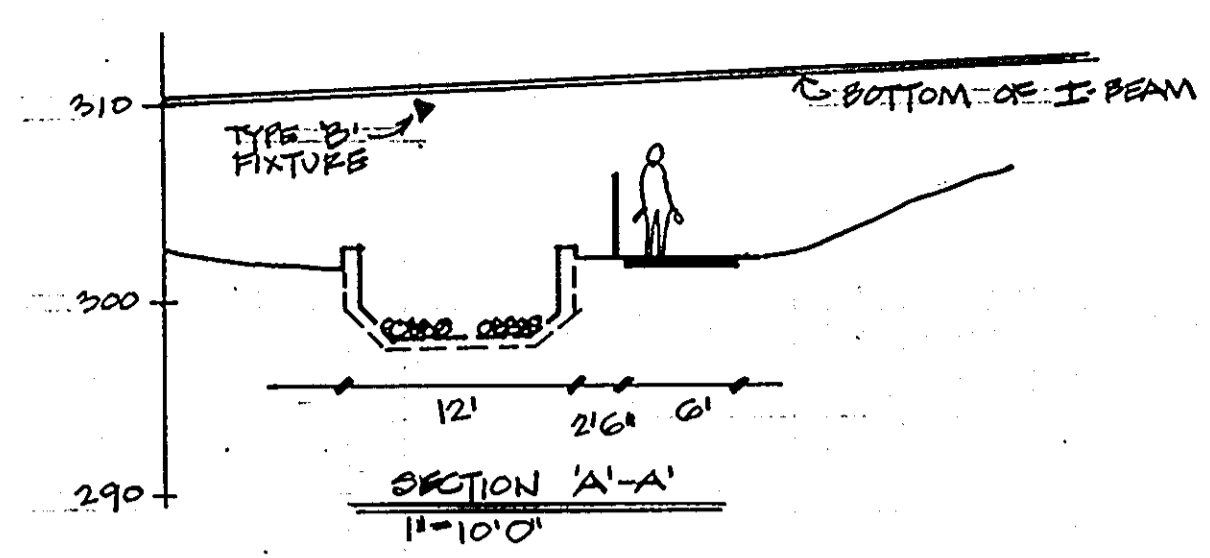
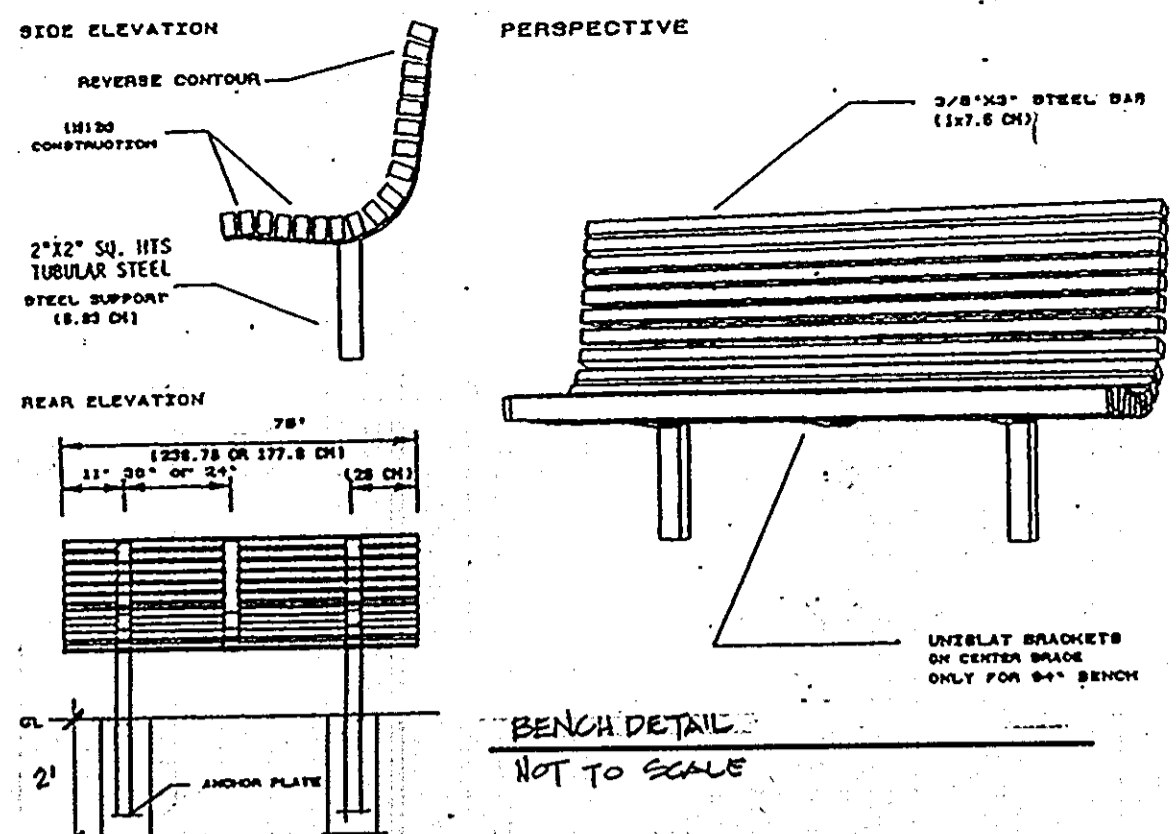
APPROVED
PLANNING BOARD
of HOWARD COUNTY
DATE 24 Sept. 95

Drawing Schedule:

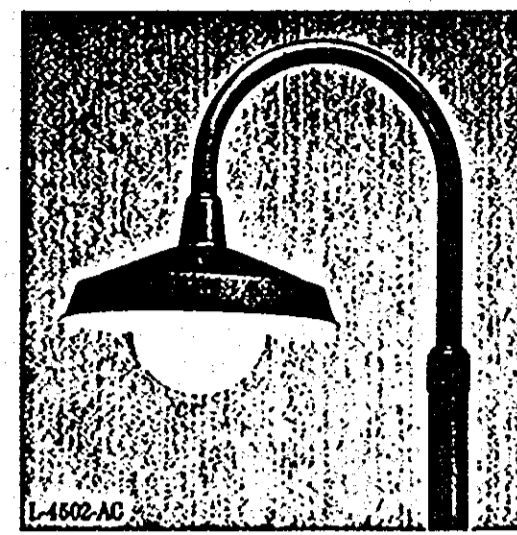
- Cover Sheet
- Construction Layout
- Grading & Erosion Control/Stormwater Management Plan
- Planting Plan
- Misc. Construction Details

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT	
COUNTY HEALTH OFFICER	DATE
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>Ramon G. Brown</i> DIRECTOR	3/8/95 DATE
<i>Robert J. Brown</i> CHIEF, BUREAU OF ENGINEERING	3/7/95 DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	
<i>James S. Smith</i> PLANNING DIRECTOR	3/10/95 DATE
<i>Gina Drummond</i> CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH	3/10/95 DATE

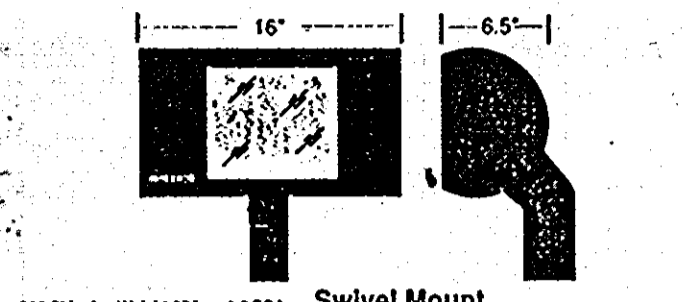
PERMIT INFORMATION CHART				ADDRESS CHART		no. 1	description DPW COMMENTS	date 3-5-94	Project: Owen Brown Pathway Connector	Sheet Title: Cover Sheet	Owner: The Columbia Park & Recreation Association 10221 Wincopin Circle, Suite 100, Columbia, MD 21044 (410) 715-3000 - Fax (410) 715-3042	SCALE 1" = 20'	DRAWN	CHECKED	PROJ. NO.	DATE	Sheet No. 1 of 5	
Subdivision Name VILLAGE OF OWEN BROWN	Section/Area SECTION 1, AREA 1	Lot/Parcel # 05 LOTS 379 & 280	LOT NUMBER 05 LOTS 280 & 379	STREET ADDRESS 7270 CRADLEPOLE WAY														Prepared by: Slater Associates 5560 Sterrett Place, Suite 302, Columbia, MD 21044 (410) 992-0001 fax (410) 992-0212
Plot # or LFF 4002	Block # NTOS	Tax/Zone Map 368.42	Eject Dist 6 th	Consent Tract 6067.02	Water Code NA		Sewer Code NA											



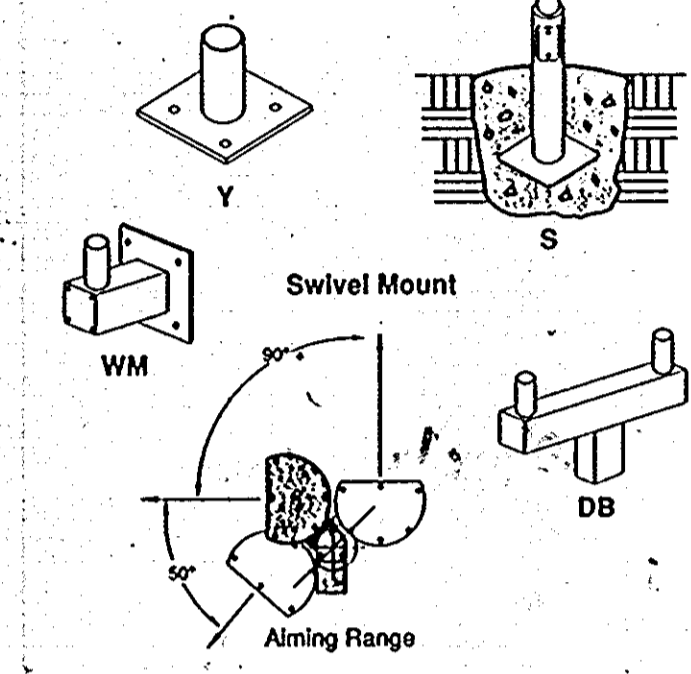
- GENERAL SPECIFICATIONS**
- Heavy gauge spun aluminum construction
 - Inside of shade finished in high reflectance white powder coat finish
 - Opal glass spheres
 - Finish: Black
 - Long life Craftcast™ protective finish
 - U.L. listed
 - Three year limited warranty



Components:
Housing: One piece, D-shaped, extruded aluminum alloy with integrally extruded heat dissipating fins. End caps are aluminum plate, fastened to the housing with stainless steel screws and sealed with an E.D.M. gasket.
Reflector: High purity anodized specular or patterned aluminum sheet in a choice of forms provide a wide selection of regular, constricted, high-proportioned or broad-proportioned rectangular beam shapes.
Lens Assembly: Clear tempered glass lens.
Ballast Assembly: A removable, extruded aluminum component tray contains the reflector system, lamp and ballast components.
Finish: Electrostatically applied dark bronze, baked enamel is standard. Optional Duranodic finishes and other painted colors are available, consult factory.
 U.L. Fixture is U.L. listed for use in wet locations.



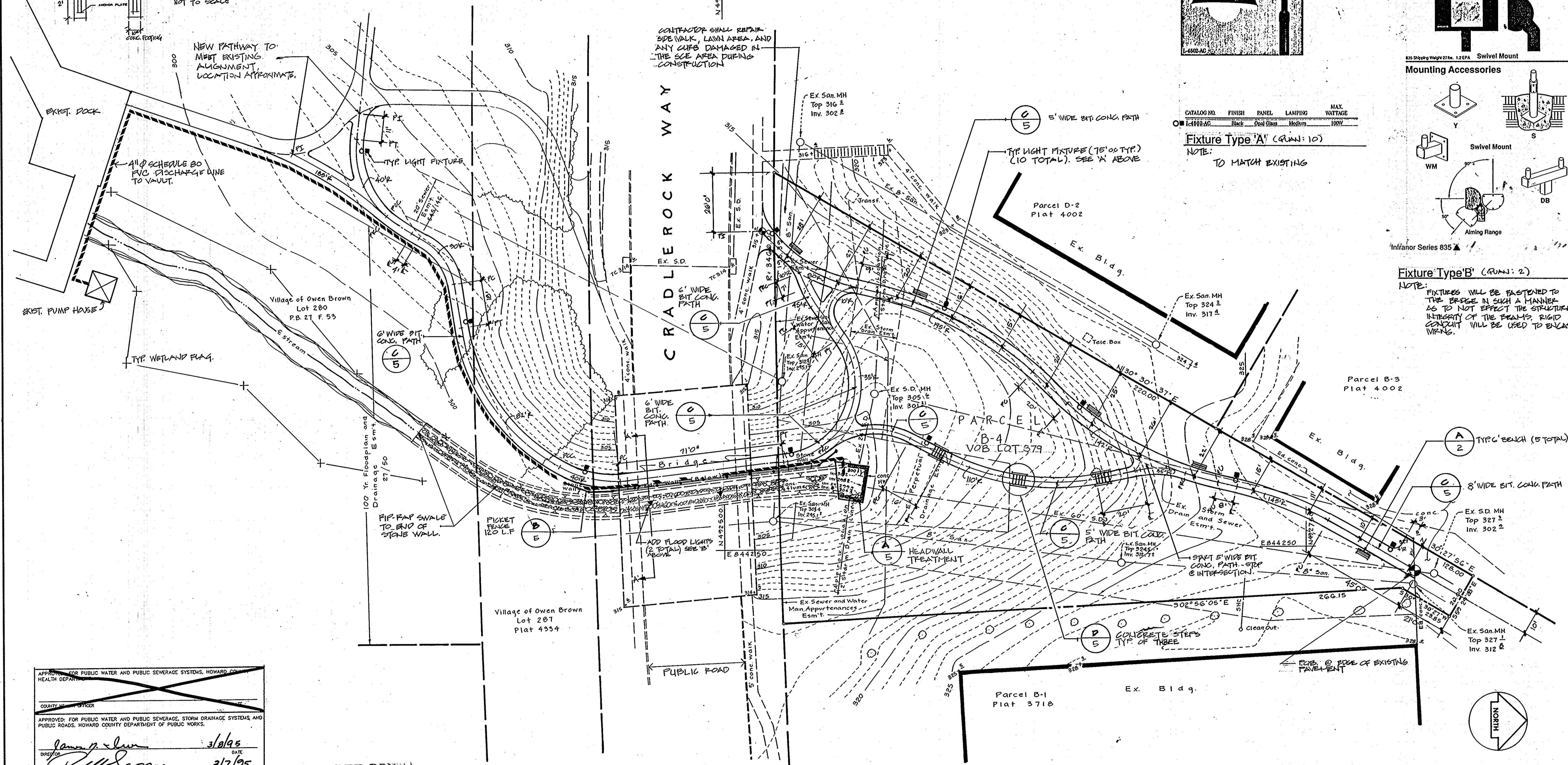
835 Shipping Weight 27 lbs. 1.2 EPA Swivel Mount
Mounting Accessories



Fixture Type 'B' (QUAN: 2)
 NOTE: FIXTURES WILL BE FASTENED TO THE BEAMS IN SUCH A MANNER AS TO NOT AFFECT THE STRUCTURAL INTEGRITY OF THE BEAMS. RIGID CONDUIT WILL BE USED TO ENCASE WIRING.

CATALOG NO.	FINISH	PANEL	LAMPING	MAX. WATTAGE
01449242	Black	Opal Glass	Medium	100W

Fixture Type 'A' (QUAN: 10)
 NOTE: TO MATCH EXISTING



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED, HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

DATE 3/10/95

APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY
 DATE 29 Sept 94

TOPOGRAPHIC SURVEY
PARCEL B-4
 VILLAGE OF OWEN BROWN
 SECTION 1 AREA 1
 Plat Ref. No. 4002
 6th Election Dist., Howard County, Md.

Prepared by:
Slater Associates
 5560 Stenrett Place, Suite 302, Columbia, MD 21044
 (410) 992-0001 fax (410) 992-0212

Phoenix Engineering, Inc.
 817 Maiden Choice Lane, Suite 300
 Baltimore, MD 21228
 (410) 247-8833 fax (410) 247-9397

revisions	date
1 description DFN COMMENTS	8-5-94

Project:
Owen Brown Pathway Connector

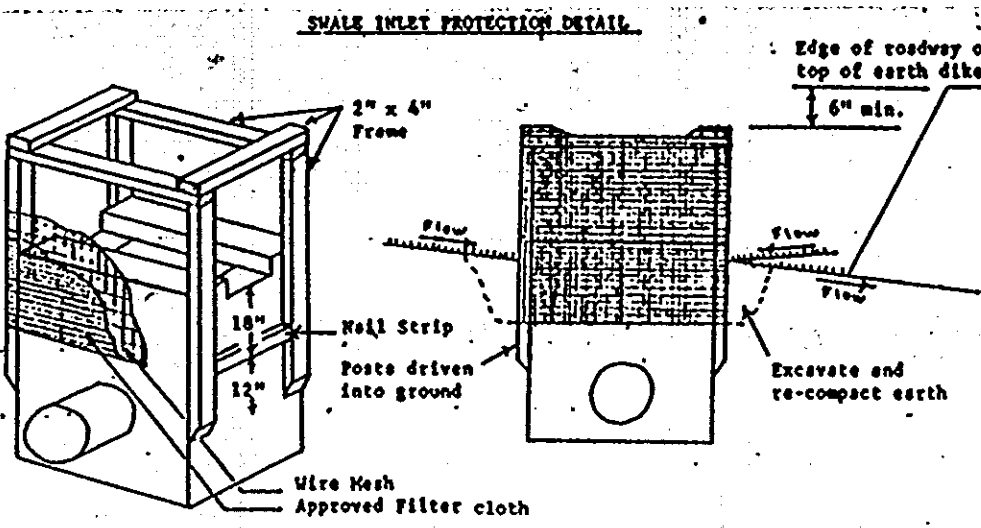
Sheet Title:
Construction Layout

Owner:
The Columbia Park & Recreation Association
 10221 Wincopin Circle, Suite 100, Columbia, MD 21044
 (410) 715-3000 Fax (410) 715-3042

SCALE 1"=20'

DRAWN	CHECKED
PROJ. NO.	DATE

Sheet No. 2 of 5



STANDARD SYMBOL

Construction Specifications

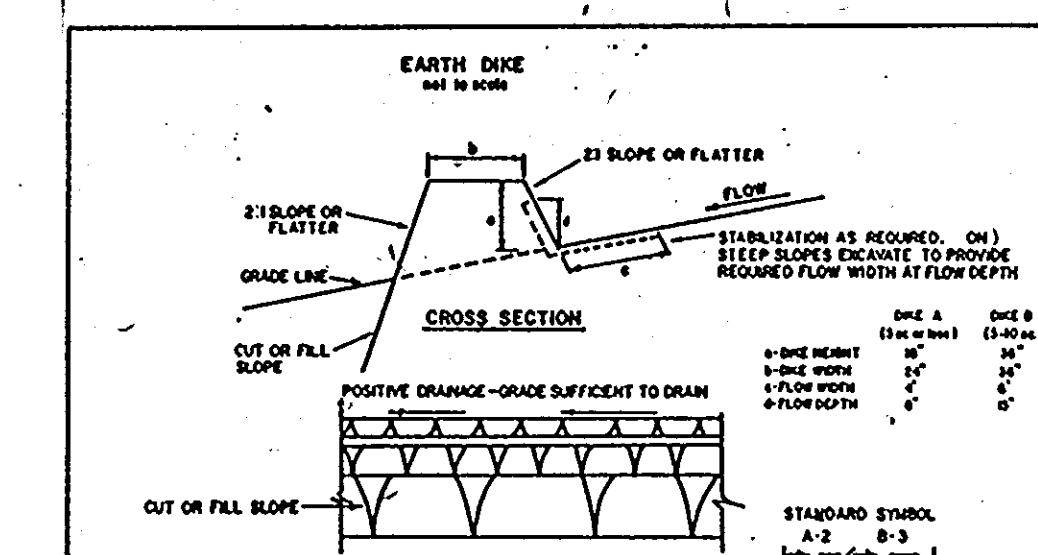
- Materials
 - Wooden frame is to be constructed of 2" x 4" construction grade lumber.
 - Wire mesh must be of sufficient strength to support filter fabric, and stone for cut inlets, with water fully impounded against it.
 - Filter cloth must be of a type approved for this purpose resistant to sunlight with sieve size, Z05, 60-85, to allow sufficient passage of water and removal of sediment.
 - Stone is to be 2" in size and clean, since fines would clog the cloth.

REPLACE EXISTING SOLID COVER WITH TARP INLET COVER (S.P. 4.14)

SEQUENCE OF CONSTRUCTION

- DAY 1 OBTAIN GRADING PERMIT.
- DAY 2-3 CLEAR AND GRUB FOR AND INSTALL (SCE) STABILIZED CONSTRUCTION ENTRANCE.
- DAY 3-8 CLEAR AND GRUB AREA FOR AND INSTALL SILT FENCE, EARTH DIKES AND SILT PROTECTION.
- DAY 8-10 CLEAR AND GRUB REMAINDER OF SITE.
- DAY 10-17 GRADE SITE AND STABILIZE IMMEDIATELY AS PER PERMANENT SEEDING NOTES.
- DAY 17-20 CONSTRUCT PATHWAY - STABILIZE ALL DISTURBED AREAS IMMEDIATELY.
- DAY 20-40 MAKE NECESSARY ADJUSTMENTS TO EX. CONCRETE PILES, ADJUST SILT FENCE DAILY, OR AS NECESSARY TO REMAIN FUNCTIONAL.
- DAY 40-50 WHEN ALL CONSTRUCTION IS COMPLETE AND ALL DISTURBED AREAS HAVE BEEN STABILIZED AND WITH PROTECTION FROM THE SEDIMENT CONTROL INSPECTOR REMOVE REMAINING SEDIMENT CONTROL DEVICES AND STABILIZE ALL DISTURBED AREAS IMMEDIATELY.

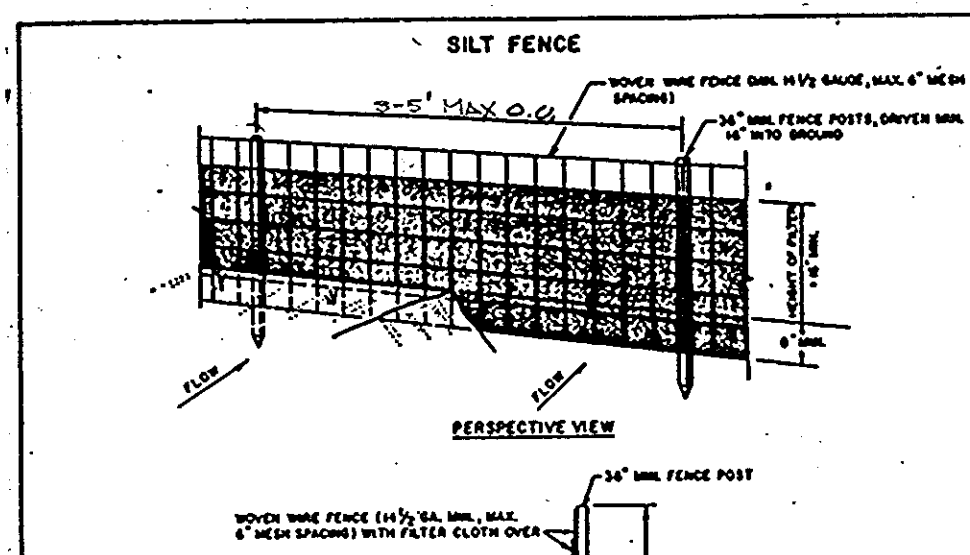
NOTE: CONTRACTOR TO VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES TO HIS OWN SATISFACTION PRIOR TO BEGINNING ANY GRADING ON THIS PROJECT.



TYPE OF DIKE	DIKE A	DIKE B
1	5-3.0' SEED AND STRAW FLOCH	SEED AND STRAW FLOCH
2	3.1-5.0' SEED AND STRAW FLOCH	SEED USING LIME, OR EXCELISUR 500, 2" STONE
3	5.1-8.0' SLED WITH LIME, OR SOY 2" STONE	LINED RUP-RUP 4-8"
4	8.1-XX' LINED RUP-RUP 4-8"	ENGINEERING DESIGN

A. Stone to be 2 inch stone, or recycled concrete equivalent, in a layer at least 3 inches in thickness and be pressed into the soil with construction equipment.
 B. Riprap to be 1/4 inch to 1/2 inch thick and 1/2 inch to 1 inch in diameter and be pressed into the soil with construction equipment.
 C. Other materials can be substituted for any of the above materials.
 D. Periodic inspection and required maintenance must be provided after each rain event.

U.S. DEPARTMENT OF AGRICULTURE
 SOIL CONSERVATION SERVICE
 COLLEGE PARK, MARYLAND

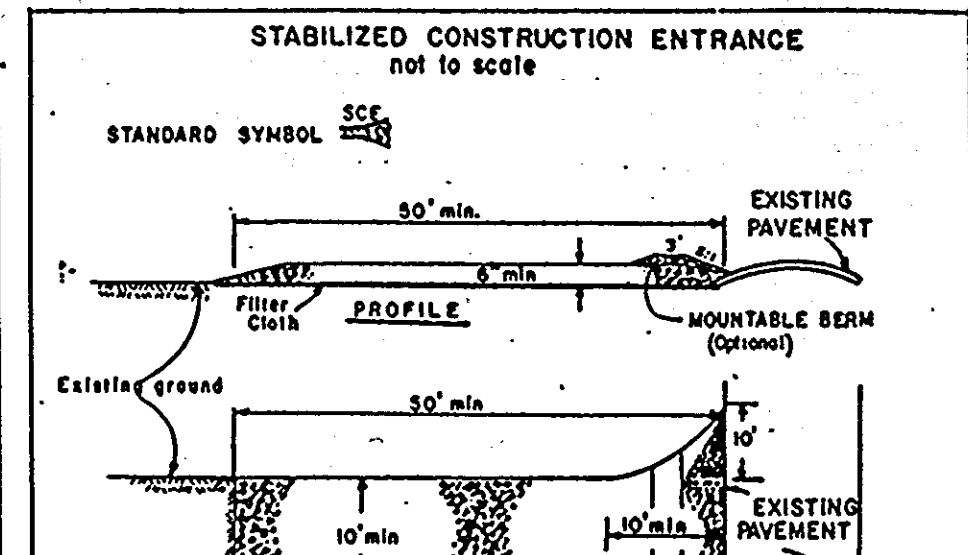


CONSTRUCTION NOTES FOR PARAPETED SILT FENCE

- MONUMENT FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- FILTER CLOTH TO BE FASTENED SECURELY TO MONUMENT FENCE WITH TIES SPACED EVERY 4 FT. AT TOP AND MID SECTION.
- WHEN NO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FLOCH.
- MAINTENANCE SHALL BE PERFORMED AS KEEN AND INTERNAL APPROVED MAINTENANCE "ALGAE" DEVELOP IN THE SILT FENCE.

POSTS: STEEL TUBES I OR U TYPE OR 2" WOOD
 FENCE: MONUMENT 1 1/2" DIA. MAX. FENCE OPENING
 FILTER CLOTH: FILTER X 36" RUP-RUP 4-8" LINED RUP-RUP 4-8" OR APPROVED EQ. PREPARATED UNIT: GEOWA, LINDSEY, OR APPROVED EQ.

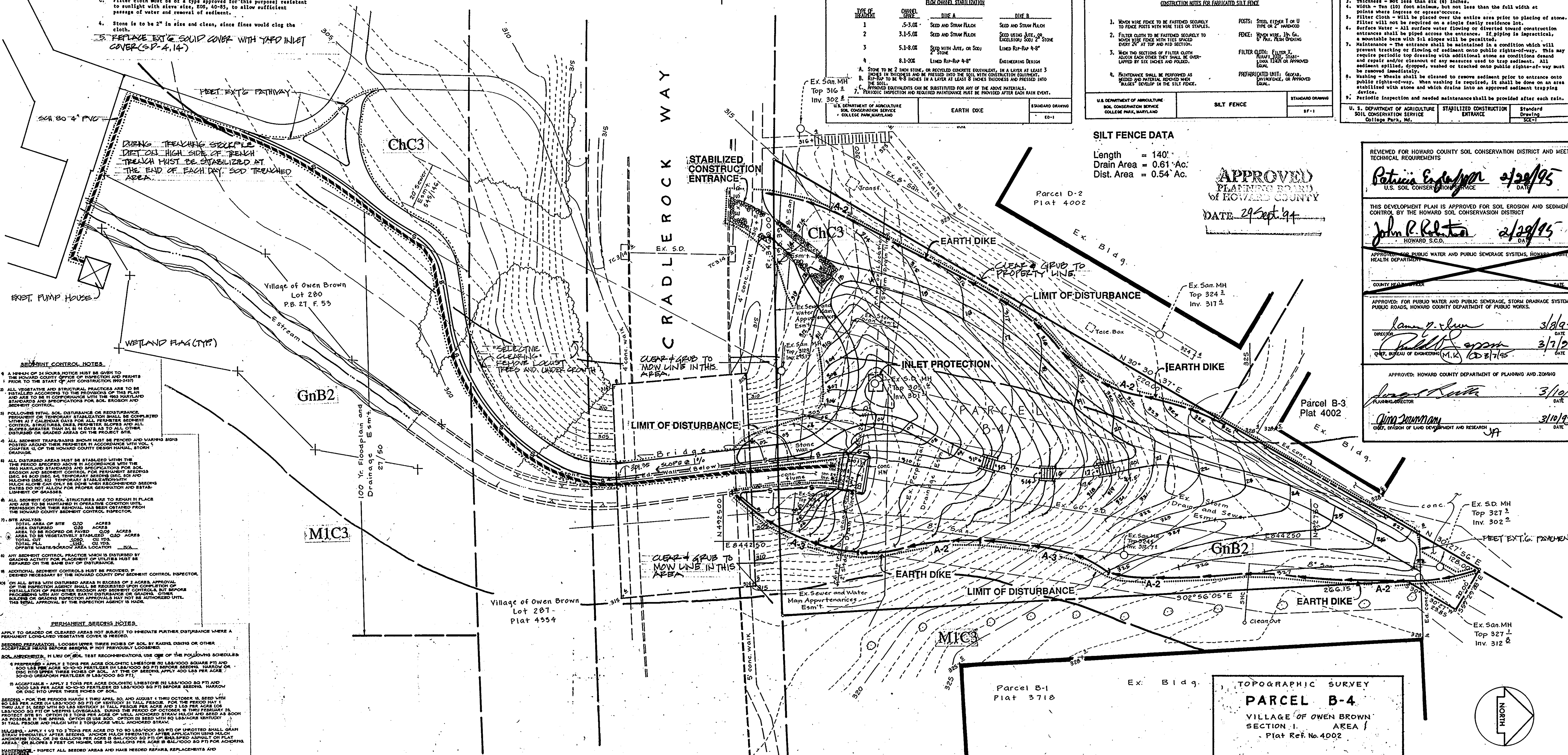
U.S. DEPARTMENT OF AGRICULTURE
 SOIL CONSERVATION SERVICE
 COLLEGE PARK, MARYLAND



CONSTRUCTION SPECIFICATIONS

- Stone Size - Use 1/2" stone, or recycled or recycled concrete equivalent. Thickness - Not less than six (6) inches. Length - Not less than 30 feet (except on a slope resistance lot where a 30 foot minimum length would apply).
- Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
- Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mounded berm with 6:1 slope 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 cleaning of any measures used to trap sediment. All sediment spilled, stopped, washed or tracked onto public rights-of-way may be removed immediately.
- Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment leading device.
- Periodic inspection and needed maintenance shall be provided after each rain.

U. S. DEPARTMENT OF AGRICULTURE
 SOIL CONSERVATION SERVICE
 COLLEGE PARK, MD.



SEEDING CONTROL NOTES:

- A PERIOD OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DISTRICT OFFICE AND PERMITS MUST BE OBTAINED PRIOR TO THE START OF ANY CONSTRUCTION (89-2471)
- ALL OPERATIONS AND ACTIVITIES SHALL BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND AS TO THE CONFORMANCE WITH ALL APPLICABLE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- FOLLOWING PERMANENT SOIL DISTURBANCE OR RESTORATION, PERMANENT OR TEMPORARY STABILIZATION SHALL BE INSTALLED WITHIN 7 CALENDAR DAYS OF THE PERIOD OF SOIL EROSION AND SEDIMENT CONTROL. FOR PERMANENT SEEDINGS, THE SEEDING SHALL BE DONE WITHIN 7 CALENDAR DAYS OF THE PERIOD OF SOIL EROSION AND SEDIMENT CONTROL. FOR TEMPORARY SEEDINGS, THE SEEDING SHALL BE DONE WITHIN 7 CALENDAR DAYS OF THE PERIOD OF SOIL EROSION AND SEDIMENT CONTROL. SEEDING SHALL BE DONE WITHIN 7 CALENDAR DAYS OF THE PERIOD OF SOIL EROSION AND SEDIMENT CONTROL.
- ALL SEDIMENT TRAPBASSES SHALL BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1 CHAPTER 26 OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE PERMANENT SEEDING NOTES AND PERMANENT SEEDING NOTES. FOR PERMANENT SEEDINGS, THE SEEDING SHALL BE DONE WITHIN 7 CALENDAR DAYS OF THE PERIOD OF SOIL EROSION AND SEDIMENT CONTROL. FOR TEMPORARY SEEDINGS, THE SEEDING SHALL BE DONE WITHIN 7 CALENDAR DAYS OF THE PERIOD OF SOIL EROSION AND SEDIMENT CONTROL.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE UNTIL THE PERIOD OF SOIL EROSION AND SEDIMENT CONTROL HAS BEEN OBTAINED FROM THE HOWARD COUNTY DISTRICT OFFICE.
- PERMANENT SEEDING NOTES
- APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.
- LOCATIONS WHERE THREE INCHES OF SOIL BY BANKS, DITCHES OR OTHER ACCEPTABLE MEANS BEFORE SEEDING IS NOT PREVIOUSLY OBTAINED.
- SOIL AMENDMENTS: IN LIME OF SOIL TEST RECOMMENDATIONS USE ONE OF THE FOLLOWING SCHEDULES:
 1. PREPARED - APPLY 5 TONS PER ACRE COLCISTIC LIMESTONE OR 1.5 LBS/1000 SQ FT OR 400 LBS PER ACRE OR 40 LBS PER ACRE OF ANNUAL RATE OR 1.5 LBS/1000 SQ FT FOR THE PERIOD OF SOIL EROSION AND SEDIMENT CONTROL. FOR THE PERIOD OF SOIL EROSION AND SEDIMENT CONTROL, APPLY 400 LBS PER ACRE OR 40 LBS PER ACRE OF ANNUAL RATE OR 1.5 LBS/1000 SQ FT TO UPPER THREE INCHES OF SOIL.
 2. ACCEPTABLE - APPLY 5 TONS PER ACRE COLCISTIC LIMESTONE OR 1.5 LBS/1000 SQ FT AND 500 LBS PER ACRE OF ANNUAL RATE OR 1.5 LBS/1000 SQ FT BEFORE SEEDING, HARROW OR DISE IN UPPER THREE INCHES OF SOIL.
- SEEDING - FOR THE PERIODS MARCH 1 THRU APRIL 30 AND AUGUST 1 THRU OCTOBER 31, SEED WITH 1.5 LBS PER ACRE OF LIME/500 SQ FT OF SEEDING 3:1 BERM, FOR THE PERIOD FROM MAY 1 THRU JULY 31, SEED WITH 1.5 LBS PER ACRE OF LIME/500 SQ FT OF SEEDING 3:1 BERM, FOR THE PERIOD FROM AUGUST 1 THRU OCTOBER 31, SEED WITH 1.5 LBS PER ACRE OF LIME/500 SQ FT OF SEEDING 3:1 BERM. SEEDING SHALL BE DONE AS SOON AS POSSIBLE IN THE SPRING. OPTION IS TO SEED WITH NO LIME/CALCIUM HYDROXIDE AT ALL TIMES AND LIME WITH 1.5 LBS PER ACRE OF SEEDING 3:1 BERM. SEEDING SHALL BE DONE AS SOON AS POSSIBLE IN THE SPRING. OPTION IS TO SEED WITH NO LIME/CALCIUM HYDROXIDE AT ALL TIMES AND LIME WITH 1.5 LBS PER ACRE OF SEEDING 3:1 BERM. SEEDING SHALL BE DONE AS SOON AS POSSIBLE IN THE SPRING.
- MULCHING - APPLY 4 TO 7 TONS PER ACRE (70 TO 90 LBS/1000 SQ FT) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING AN ANCHORING TOOL OR 24 GALLONS PER ACRE OF 3/4" GALVANIZED ANCHORING TOOL OR FLAT AREA, OR BLOCS 6 FEET OR HIGHER, USE 340 GALLONS PER ACRE IN 1/4" GALVANIZED ANCHORING TOOL. INSPECT ALL SEEDING AREAS AND MAKE NECESSARY REPAIRS, REPLACEMENTS AND MAINTENANCE.

TEMPORARY SEEDING NOTES:

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

SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY BANKS, DITCHES OR OTHER ACCEPTABLE MEANS BEFORE SEEDING IS NOT PREVIOUSLY OBTAINED.

SOIL AMENDMENTS: IN LIME OF SOIL TEST RECOMMENDATIONS USE ONE OF THE FOLLOWING SCHEDULES:
 1. PREPARED - APPLY 5 TONS PER ACRE COLCISTIC LIMESTONE OR 1.5 LBS/1000 SQ FT OR 400 LBS PER ACRE OR 40 LBS PER ACRE OF ANNUAL RATE OR 1.5 LBS/1000 SQ FT FOR THE PERIOD OF SOIL EROSION AND SEDIMENT CONTROL. FOR THE PERIOD OF SOIL EROSION AND SEDIMENT CONTROL, APPLY 400 LBS PER ACRE OR 40 LBS PER ACRE OF ANNUAL RATE OR 1.5 LBS/1000 SQ FT TO UPPER THREE INCHES OF SOIL.
 2. ACCEPTABLE - APPLY 5 TONS PER ACRE COLCISTIC LIMESTONE OR 1.5 LBS/1000 SQ FT AND 500 LBS PER ACRE OF ANNUAL RATE OR 1.5 LBS/1000 SQ FT BEFORE SEEDING, HARROW OR DISE IN UPPER THREE INCHES OF SOIL.

SEEDING - FOR THE PERIODS MARCH 1 THRU APRIL 30 AND AUGUST 1 THRU OCTOBER 31, SEED WITH 1.5 LBS PER ACRE OF LIME/500 SQ FT OF SEEDING 3:1 BERM, FOR THE PERIOD FROM MAY 1 THRU JULY 31, SEED WITH 1.5 LBS PER ACRE OF LIME/500 SQ FT OF SEEDING 3:1 BERM, FOR THE PERIOD FROM AUGUST 1 THRU OCTOBER 31, SEED WITH 1.5 LBS PER ACRE OF LIME/500 SQ FT OF SEEDING 3:1 BERM. SEEDING SHALL BE DONE AS SOON AS POSSIBLE IN THE SPRING. OPTION IS TO SEED WITH NO LIME/CALCIUM HYDROXIDE AT ALL TIMES AND LIME WITH 1.5 LBS PER ACRE OF SEEDING 3:1 BERM. SEEDING SHALL BE DONE AS SOON AS POSSIBLE IN THE SPRING.

MULCHING - APPLY 4 TO 7 TONS PER ACRE (70 TO 90 LBS/1000 SQ FT) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING AN ANCHORING TOOL OR 24 GALLONS PER ACRE OF 3/4" GALVANIZED ANCHORING TOOL OR FLAT AREA, OR BLOCS 6 FEET OR HIGHER, USE 340 GALLONS PER ACRE IN 1/4" GALVANIZED ANCHORING TOOL. INSPECT ALL SEEDING AREAS AND MAKE NECESSARY REPAIRS, REPLACEMENTS AND MAINTENANCE.

SILT FENCE DATA
 Length = 140'
 Drain Area = 0.61 'Ac.
 Dist. Area = 0.54 'Ac.

APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY
 DATE: 29 Sept. 94

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

Patricia Engelman 2/29/95
 U.S. SOIL CONSERVATION SERVICE DATE

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

John P. Reiter 2/29/95
 HOWARD S.C.D. DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James P. Schum 3/8/95
 DIRECTOR DATE

Charles E. Engeman 3/7/95
 CHIEF, DIVISION OF CONSERVATION (M,K) DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

James P. Schum 3/10/95
 PLANNING DIRECTOR DATE

Quinn Zimmerman 3/10/95
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE



BY THE DEVELOPER:
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

Michael M. Payer, Vice Pres. June 6, 1994
 DEVELOPER: COLUMBIA PARK AND RECREATION ASSOC. DATE

BY THE ENGINEER:
 I/WE 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 COUNTY SOIL CONSERVATION DISTRICT.

John A. Hendrichs 6/9/94
 ENGINEER: JOHN A. HENDRICHS DATE

Prepared by:
Slater Associates
 5560 Sterrett Place, Suite 302, Columbia, MD 21044
 (410) 992-0001 Fax (410) 992-0212

Phoenix Engineering, Inc.
 817 Maiden Choke Lane, Suite 300
 Baltimore, MD 21228
 (410) 247-8833 Fax (410) 247-9397

no.	description	date
1	DFV COMMENTS	8/5/94

Project:
Owen Brown Pathway Connector
 Sheet Title:
 Grading & Erosion Control/Stormwater Management Plan
 Owner:
 The Columbia Park & Recreation Association
 10221 Wincopin Circle, Suite 100, Columbia, MD 21044
 (410) 715-3000 Fax (410) 715-3042

SCALE	DRAWN	CHECKED
1" = 20'	<i>MCC</i>	
	PROJ. NO.	DATE

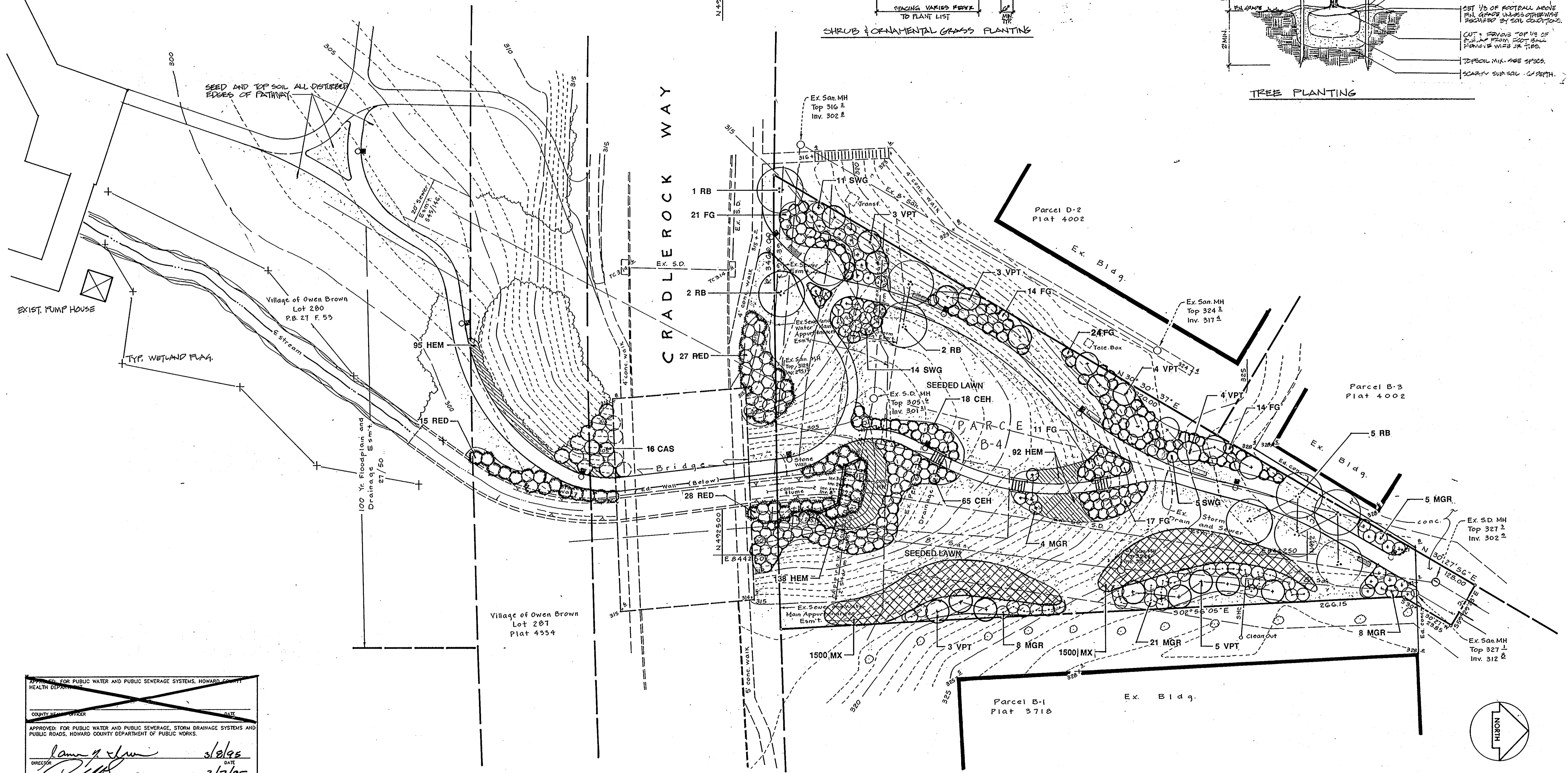
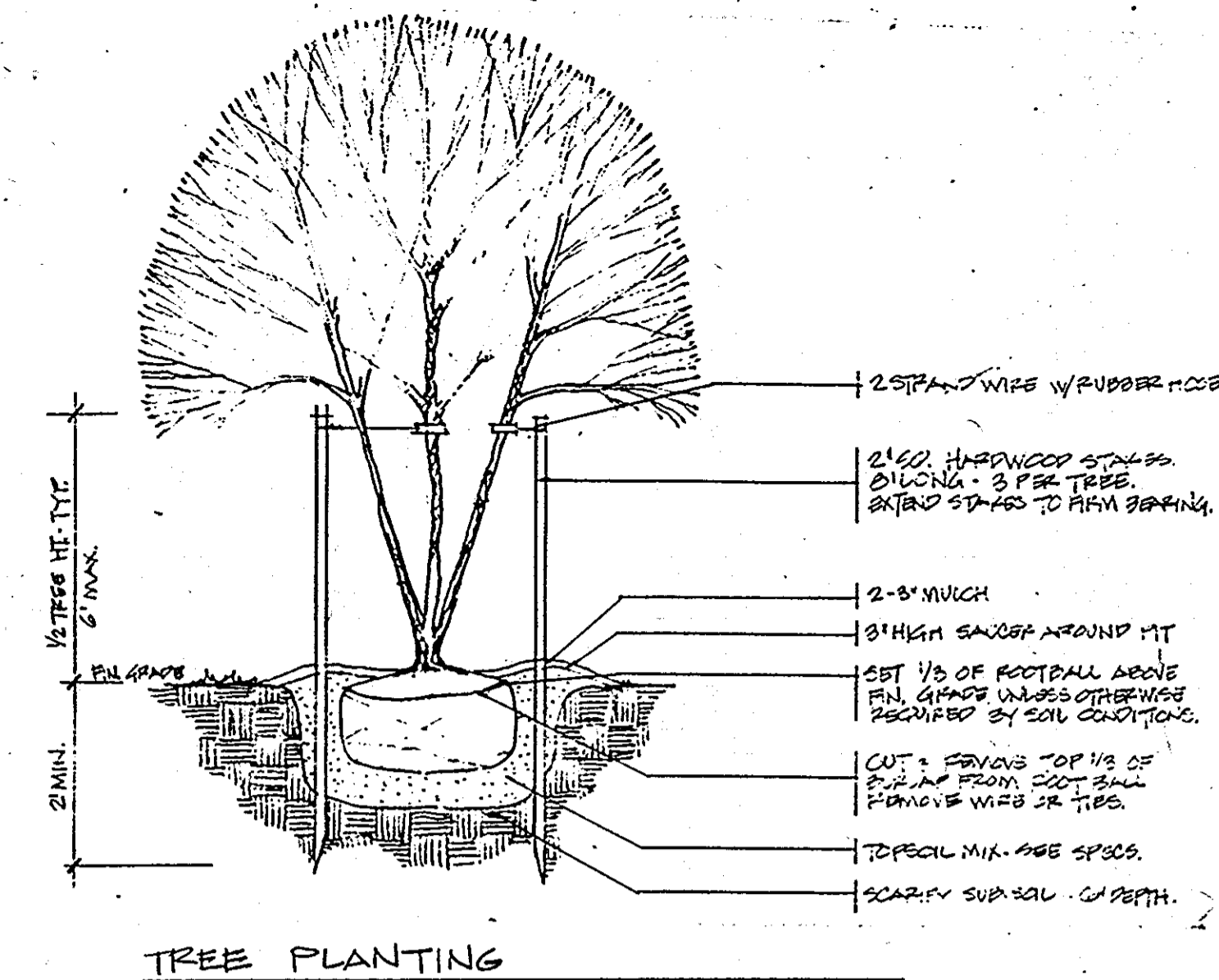
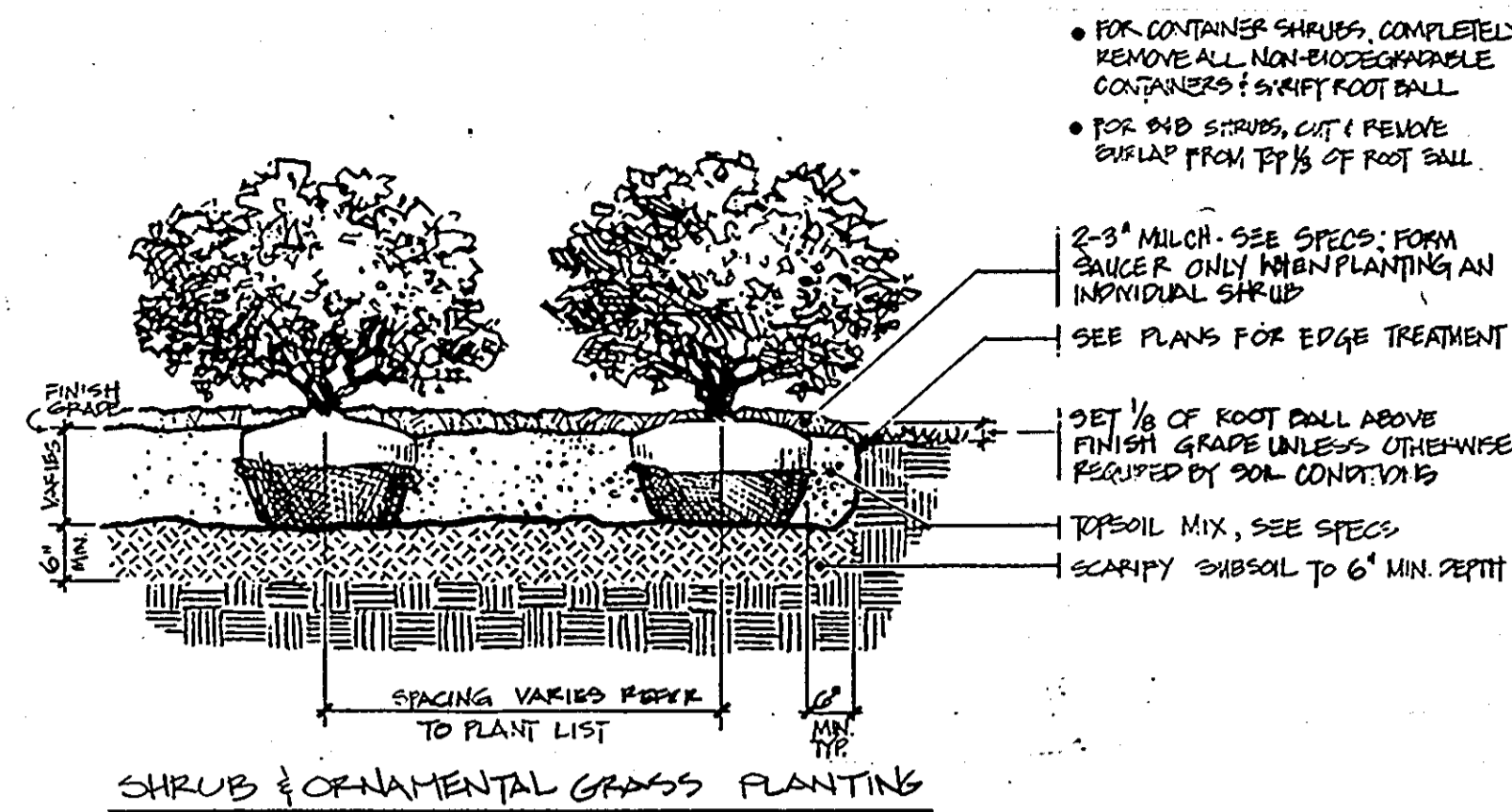
Sheet No. 3 of 5

Plant List

Quan.	Symbol	Botanical Name	Common Name	Remarks
16	CAS	Cornus alba sibirica	Red-Twig Dogwood	3-4' hgt.
83	CEH	Calamagrostis acutiflora stricta	Feather Reed Grass	1 gal. cont.
101	FG	Pennisetum alopecuroides	Fountain Grass	1 gal. cont.
325	HEM	Hemerocallis hybrid mix *	Hybrid Daylily varieties	2 qt. cont., 18" o.c.
46	MGR	Miscanthus sinensis gracillimus	Maiden Grass	2 gal. cont.
	MX	Wildflower seed mix *		3000 sq.ft.
6	RB	Betula nigra	River Birch	12-14' hgt.
70	RED	Rosa Medialand 'Meineble'	Red Medialand Rose	1 gal. cont.
30	SWG	Panicum virgatum 'Haense Herms'	Red Switch Grass	1 gal. cont.
22	VPT	Viburnum plicatum tomentosum	Doublefile Viburnum	5-6' hgt.

* Note: Daylily mix will consist of equal parts of yellow, gold, orange, melon, and cream colors.
Contractor to submit list of selections for approval.

* Note: See specifications for wildflower seed mix.



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER _____ DATE _____

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

DIRECTOR *Laura J. Shaw* DATE *3/8/95*

CHIEF ENGINEER *Richard J. Sporn* DATE *3/7/95*

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

PLANNING DIRECTOR *Angela Smith* DATE *3/10/95*

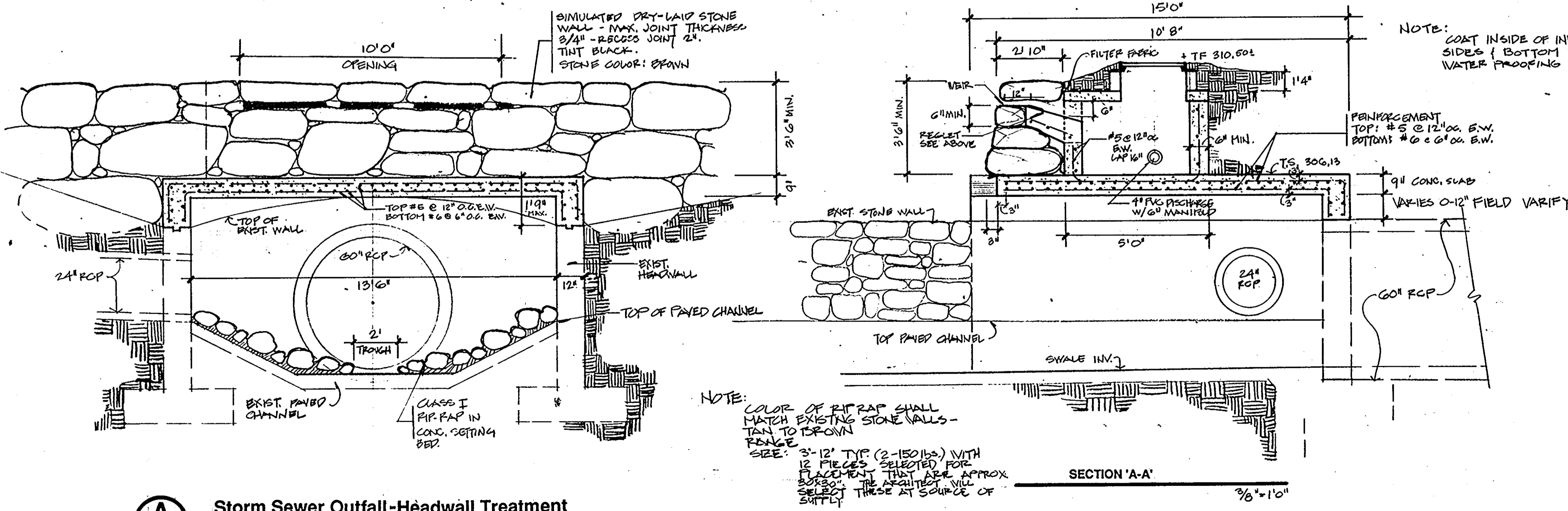
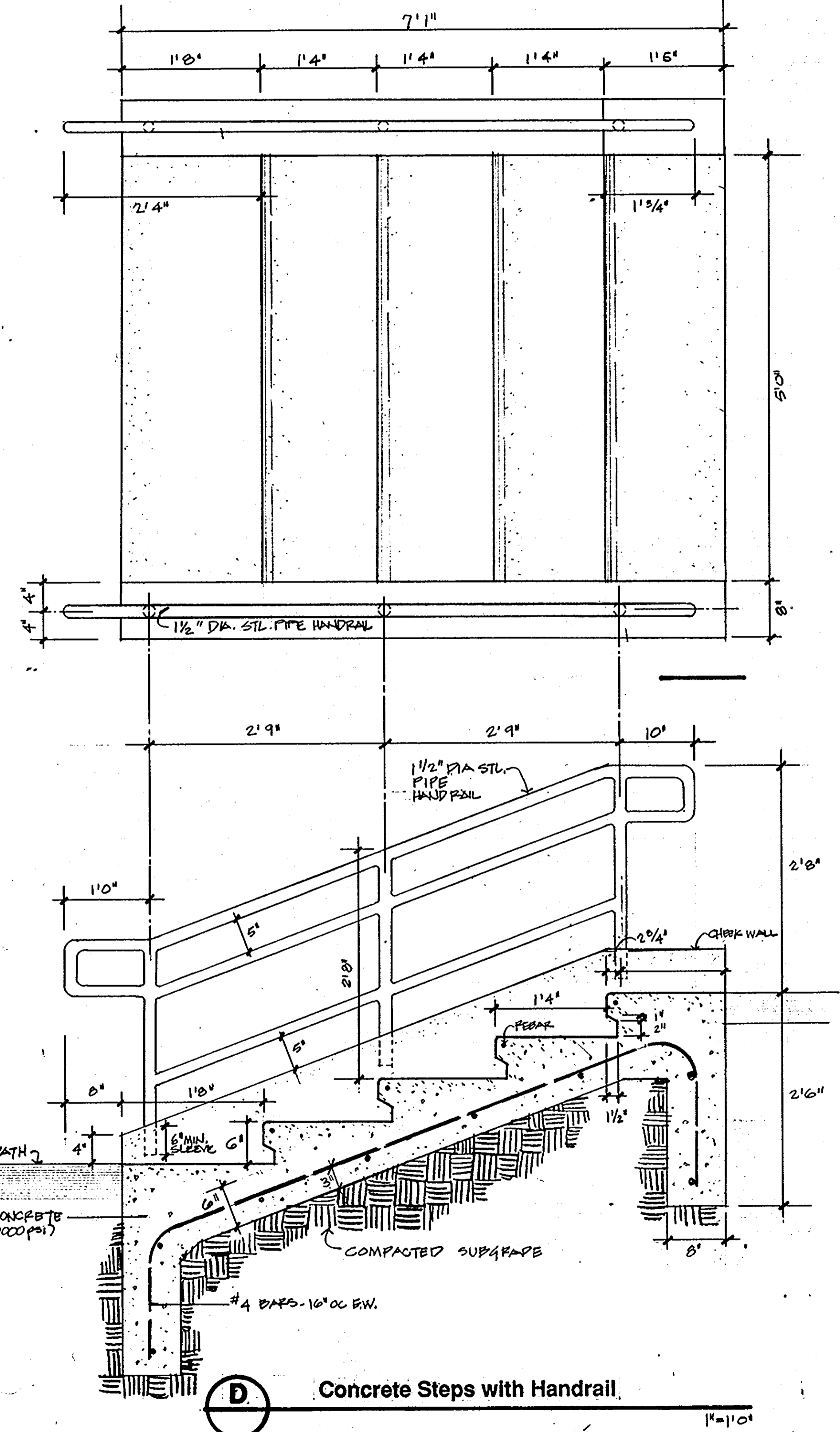
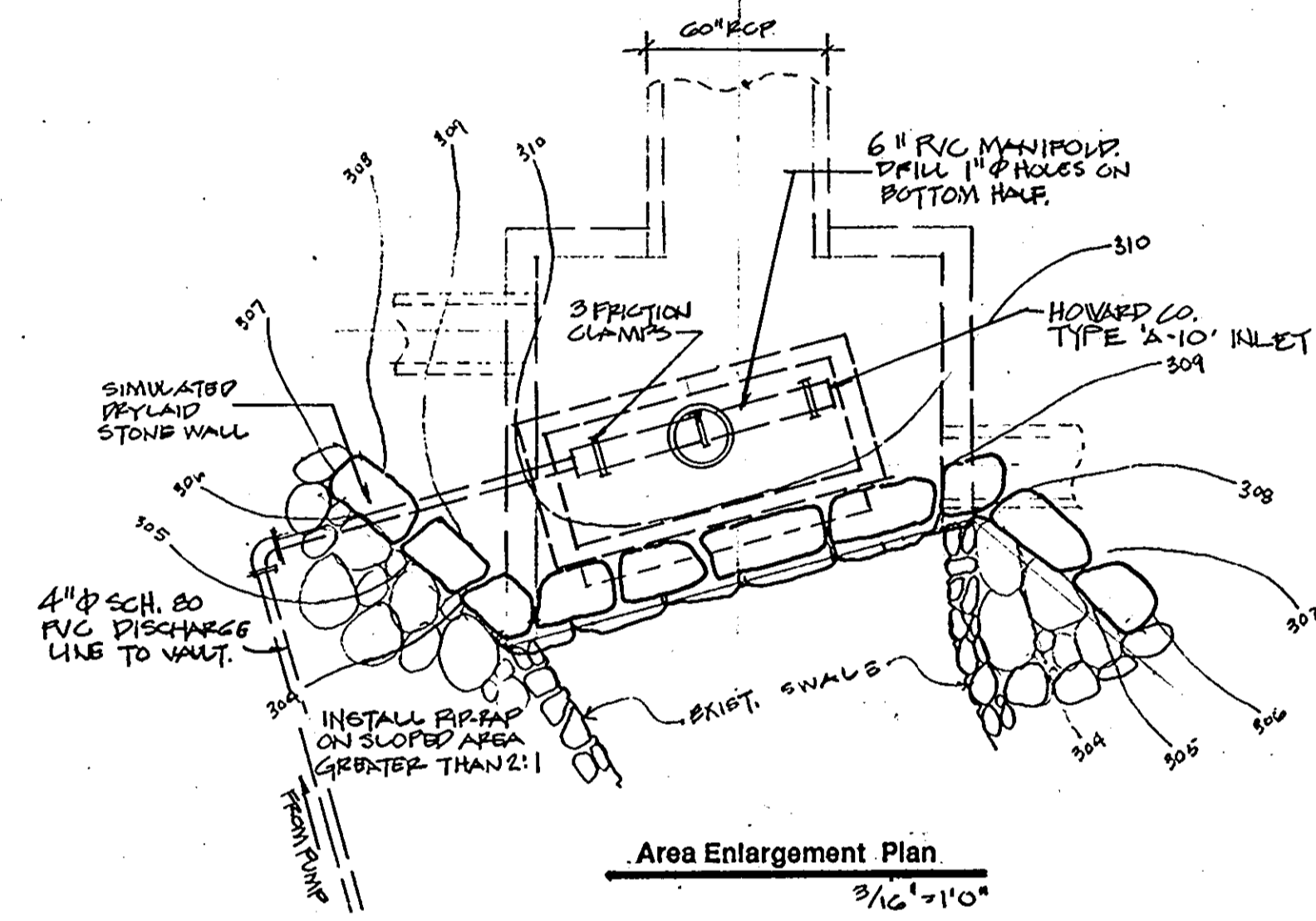
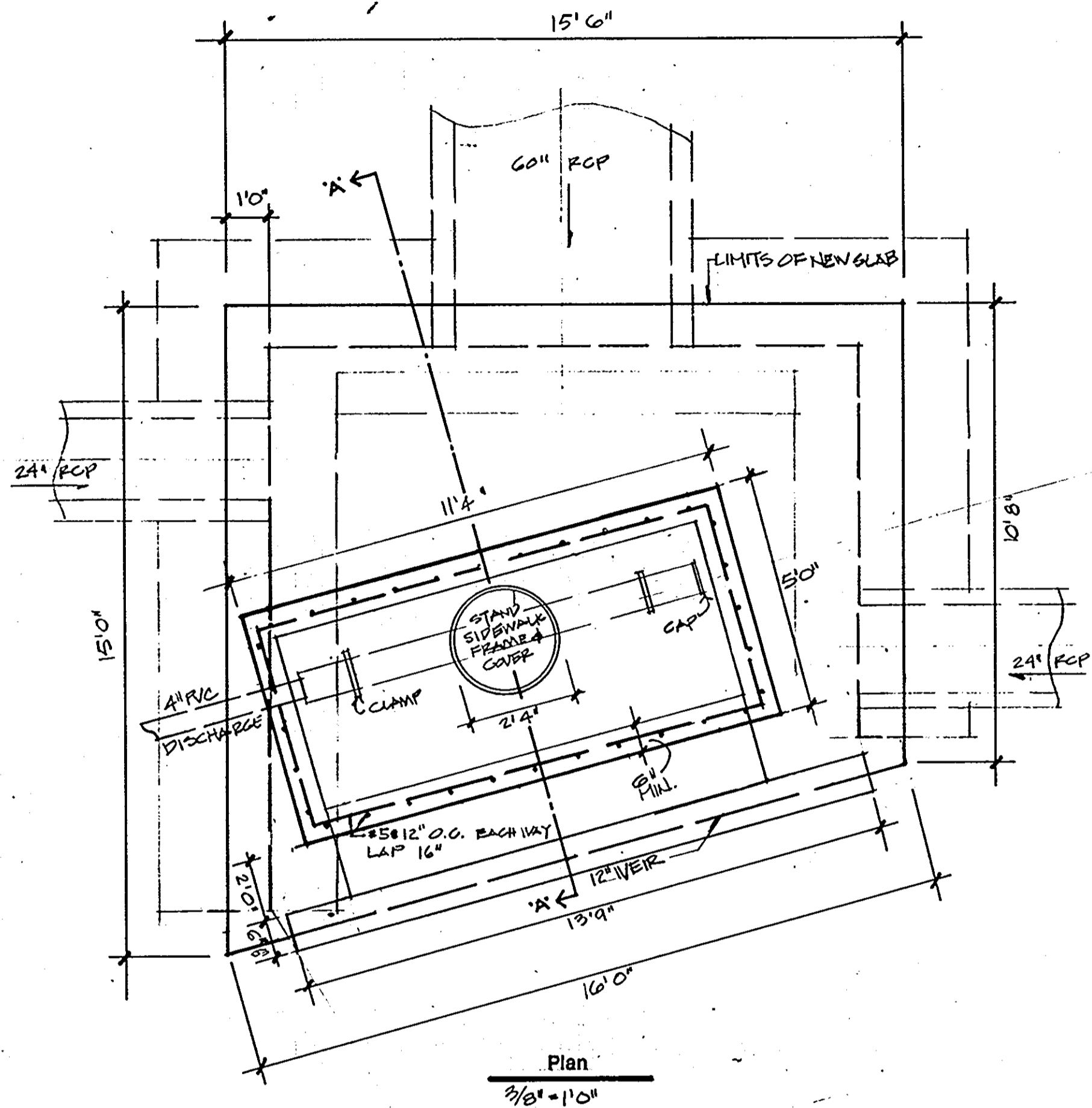
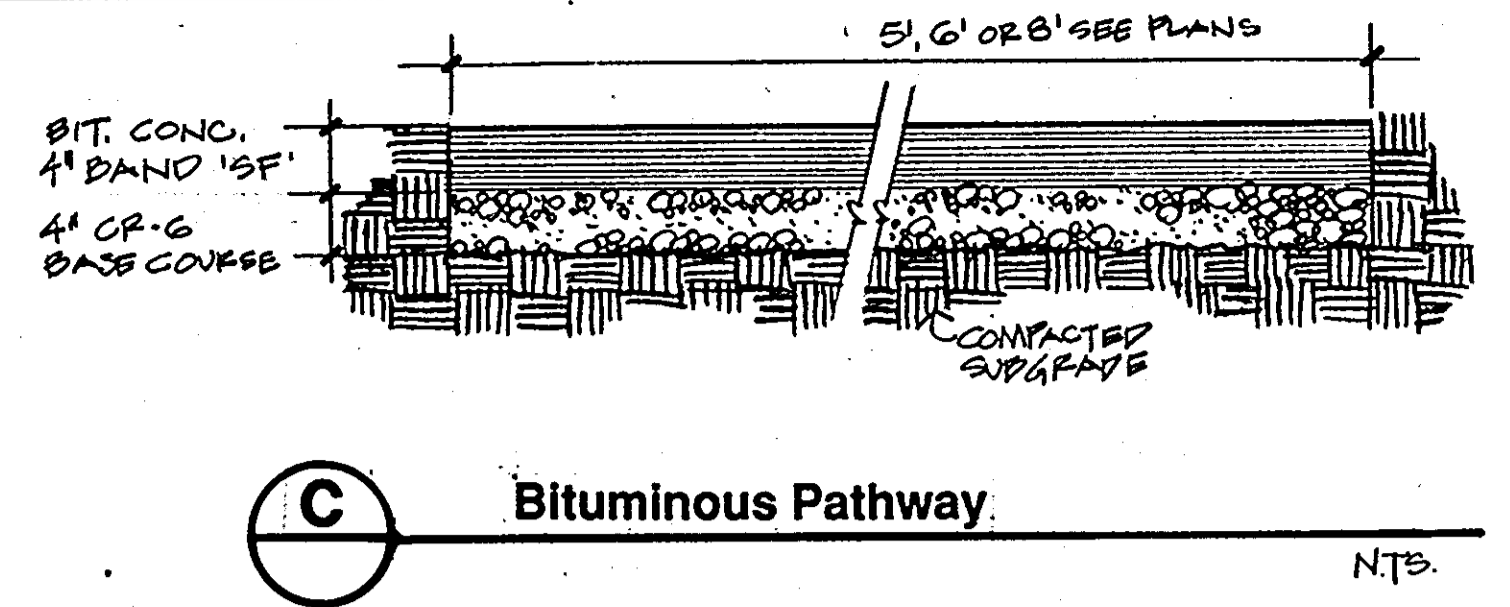
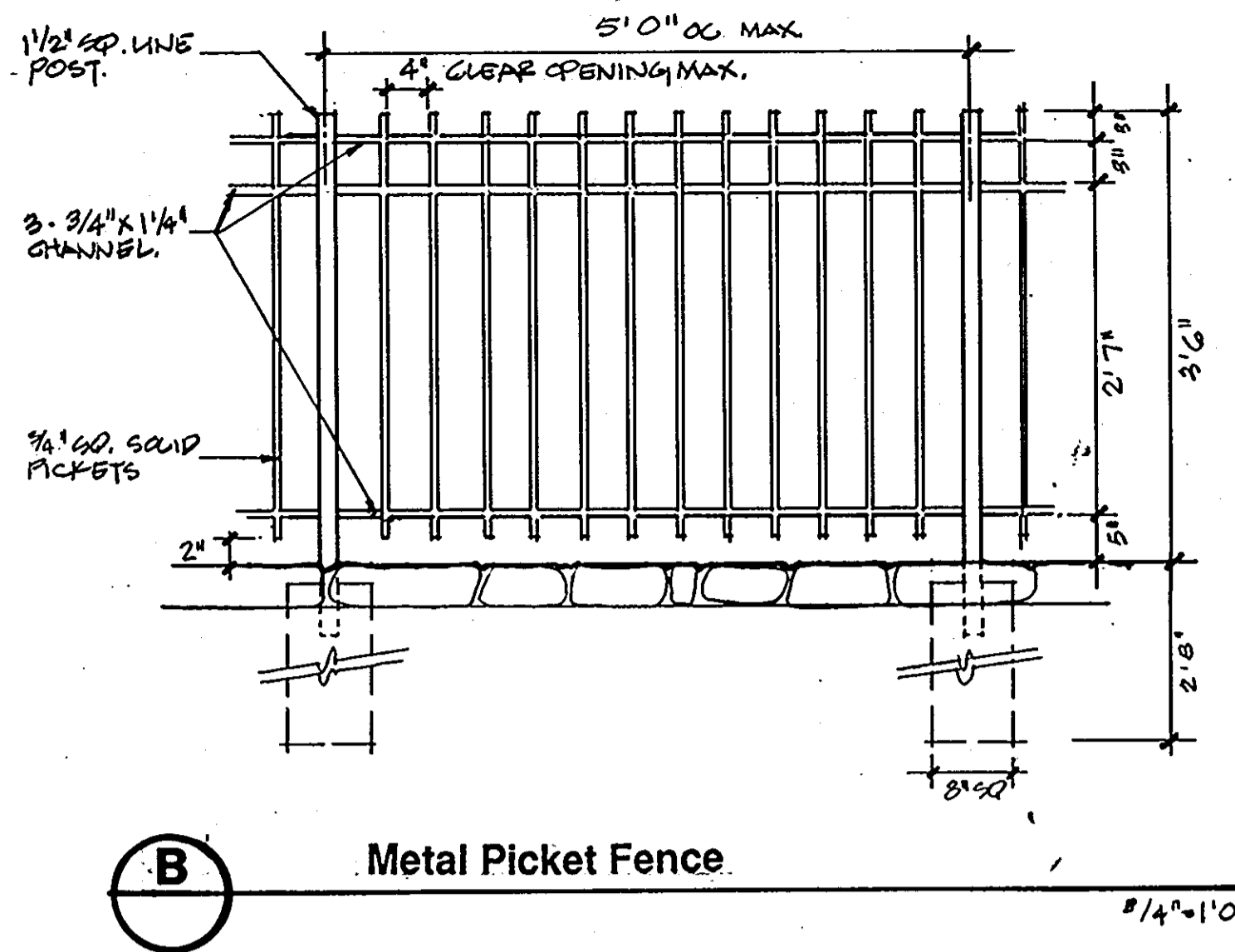
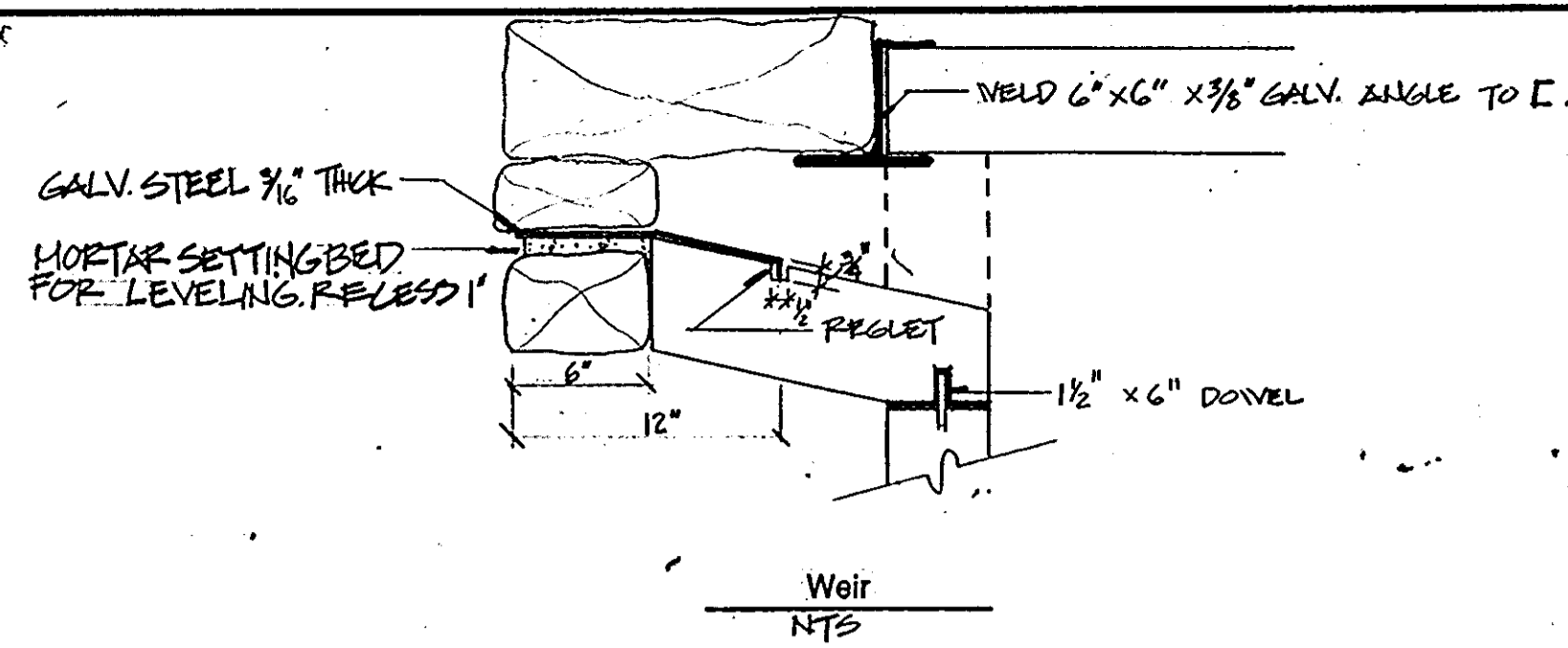
CHIEF DIVISION OF LAND DEVELOPMENT AND RESEARCH *Jim C.* DATE *3/10/95*

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE: 29 Sept '94

TOPOGRAPHIC SURVEY PARCEL B-4 VILLAGE OF OWEN BROWN SECTION I AREA I Plat Ref. No. 4002		Prepared by: Slater Associates 5560 Sterrett Place, Suite 302, Columbia, MD 21044 (410) 992-0001 fax (410) 992-0212	revisions no. description date 1 DEV COMMENTS 6-5-94	Project: Owen Brown Pathway Connector Sheet Title: Planting Plan Owner: The Columbia Park & Recreation Association 10221 Wincopin Circle, Suite 100, Columbia, MD 21044 (410) 715-3000 Fax (410) 715-3042	SCALE 1"=20' DRAWN _____ CHECKED _____ PROJ. NO. _____ DATE _____ Sheet No. 4 of 5
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4th Election Dist., Howard County, Md.

PHOENIX ENGINEERING, INC.
817 MAIDEN CHOICE LANE, SUITE 300
BALTIMORE, MD 21228
(410) 247-8833 fax (410) 247-9397



NOTE:
COAT INSIDE OF INLET-SIDES & BOTTOM W/BIT. WATER PROOFING

A Storm Sewer Outfall-Headwall Treatment
3/8" = 1' 0"

D Concrete Steps with Handrail
1" = 1' 0"

APPROVED
PLANNING
DIVISION
OF HOWARD COUNTY
DATE 29 Sept. 94

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
3/10/95
DATE
3/10/95
DATE

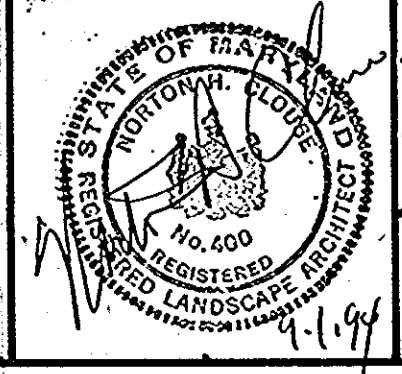
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER
DATE
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR
DATE
3/7/95
DATE

TOPOGRAPHIC SURVEY
PARCEL B-4
VILLAGE OF OWEN BROWN
SECTION 1 AREA 1
Plat Ref. No. 4002.

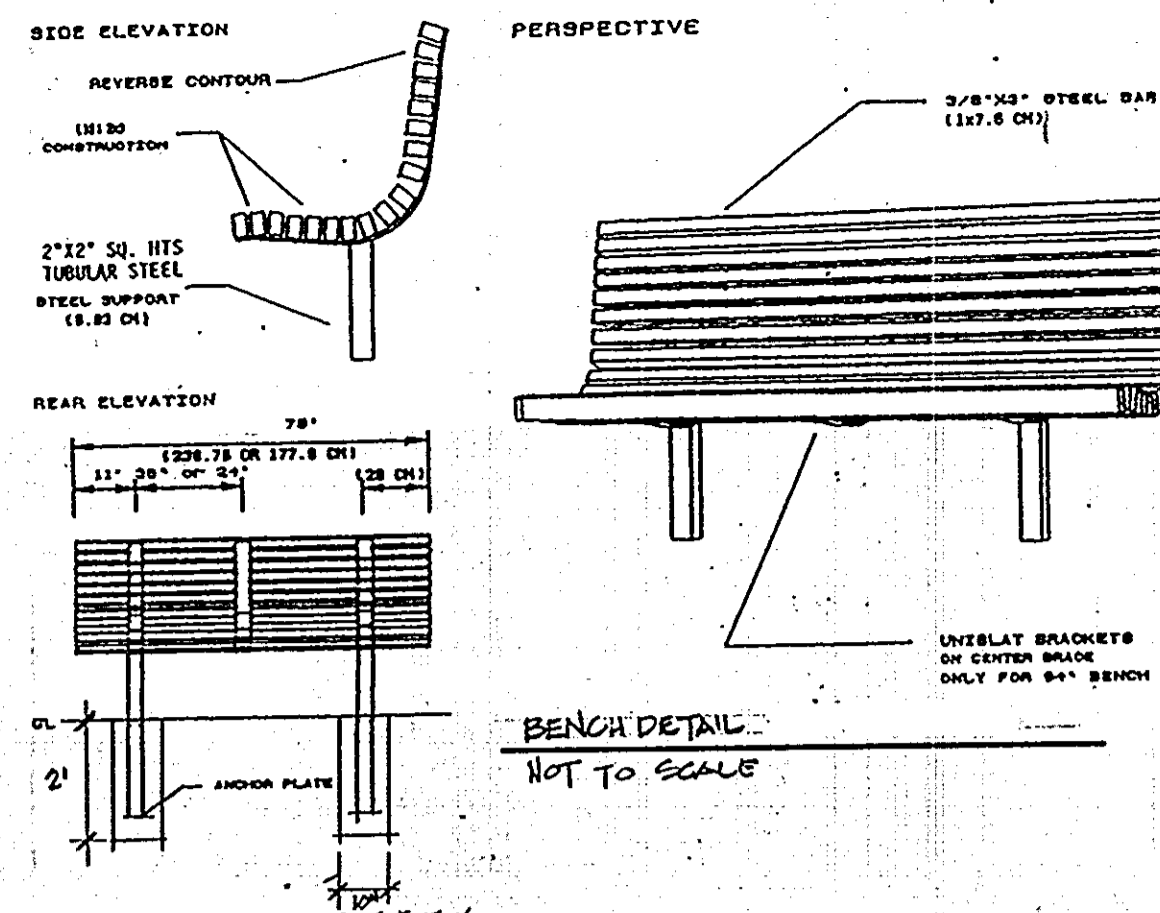
Prepared by:
Slater Associates
5560 Starnett Place, Suite 302, Columbia, MD 21044
(410) 992-0001 fax (410) 992-0212
Phoenix Engineering, Inc.
817 Maiden Choice Lane, Suite 300
Baltimore, MD 21228
(410) 247-8833 fax (410) 247-9397

NO.	DESCRIPTION	DATE
1	DESCRIPTION DTV COMMENTS	8-5-94

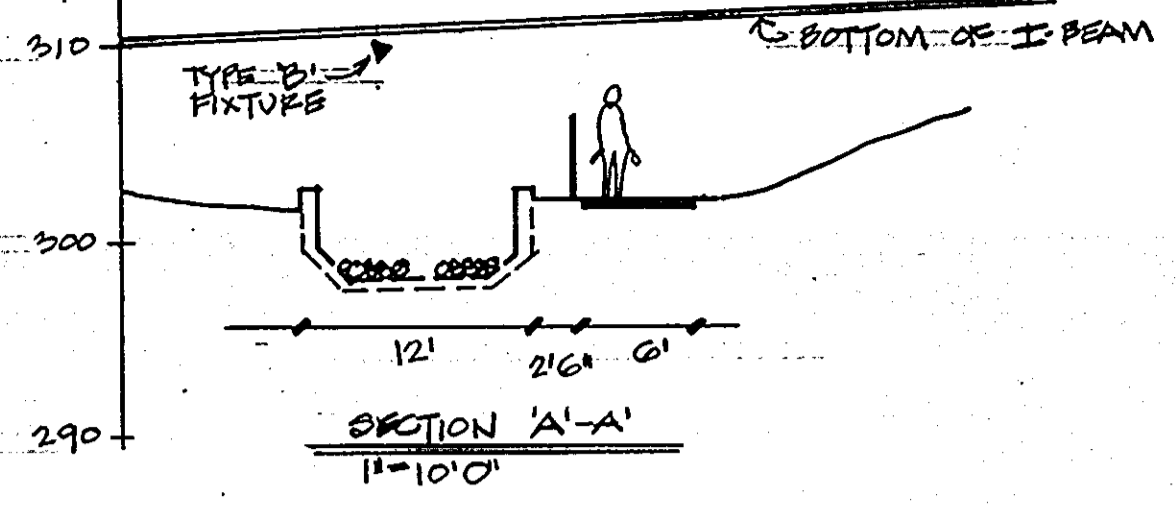
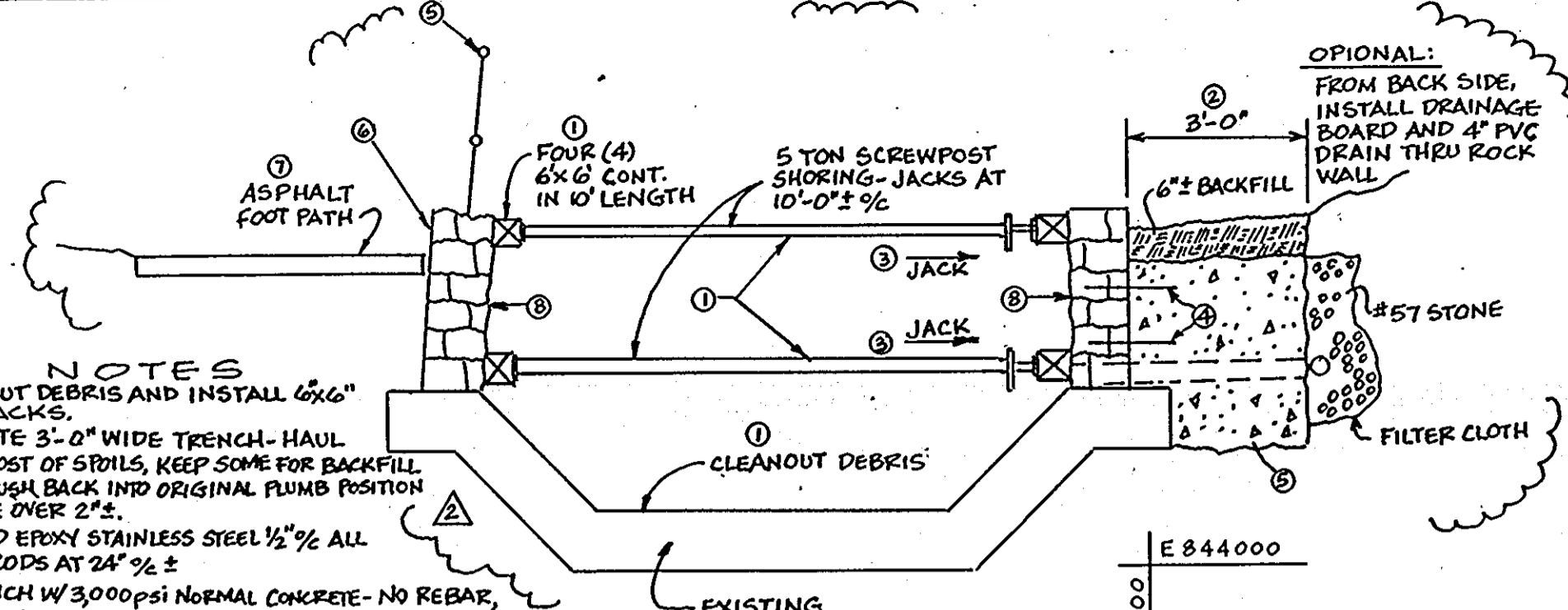
Project:
Owen, Brown Pathway Connector
Sheet Title:
Misc. Construction Details
Owner:
The Columbia Park & Recreation Association
10221 Wincopin Circle, Suite 100, Columbia, MD 21044
(410) 715-3000 Fax (410) 715-3042



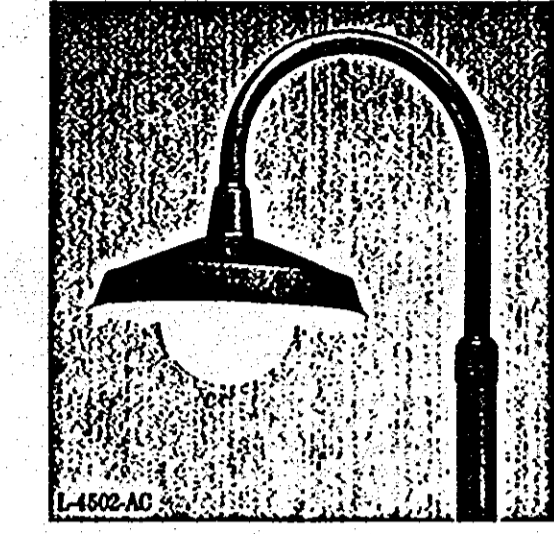
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PROJ. NO.	DATE
Sheet No. 5 of 5	



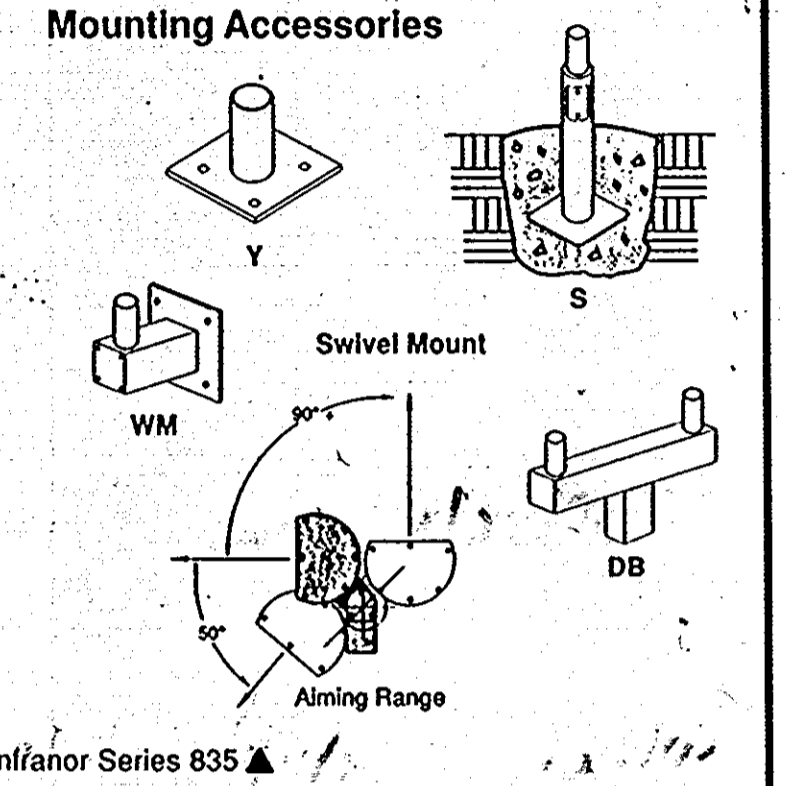
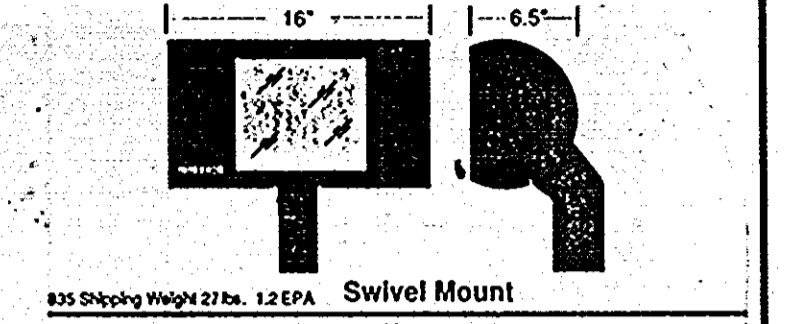
- NOTES**
- CLEAN OUT DEBRIS AND INSTALL 4x6" AND "JACKS"
 - EXCAVATE 3'-0" WIDE TRENCH-HAUL AWAY MOST OF STILLS, KEEP SOME FOR BACKFILL
 - SLOWLY PUSH BACK INTO ORIGINAL PLUMB POSITION AND SLIDE OVER 2"
 - DRILL AND EPOXY STAINLESS STEEL 1/2" ALL THREAD RODS AT 24" ±
 - FILL TRENCH W/ 3000 PSI NORMAL CONCRETE- NO REBAR, BACKFILL W/ EARTH OVER CONCRETE.
 - REPEAT STEPS 2) THRU 5) ON OPPOSITE WALL
 - DEMOLISH AND REMOVE EXISTING
 - REPLACE FOOT PATH TO MATCH EXIST. GRADES
 - TUCK POINT ROCK WALLS WHERE NEEDED.
 - INSTALL CODE COMPLIANT GUARDRAIL MIN. 3'-6" ABOVE FOOT PATH.



- GENERAL SPECIFICATIONS**
- Heavy gauge spun aluminum construction
 - Inside of shade finished in high reflectance white powder coat finish
 - Opal glass spheres
 - Finish: Black
 - Long life Craftcoat™ protective finish
 - UL listed
 - Three year limited warranty



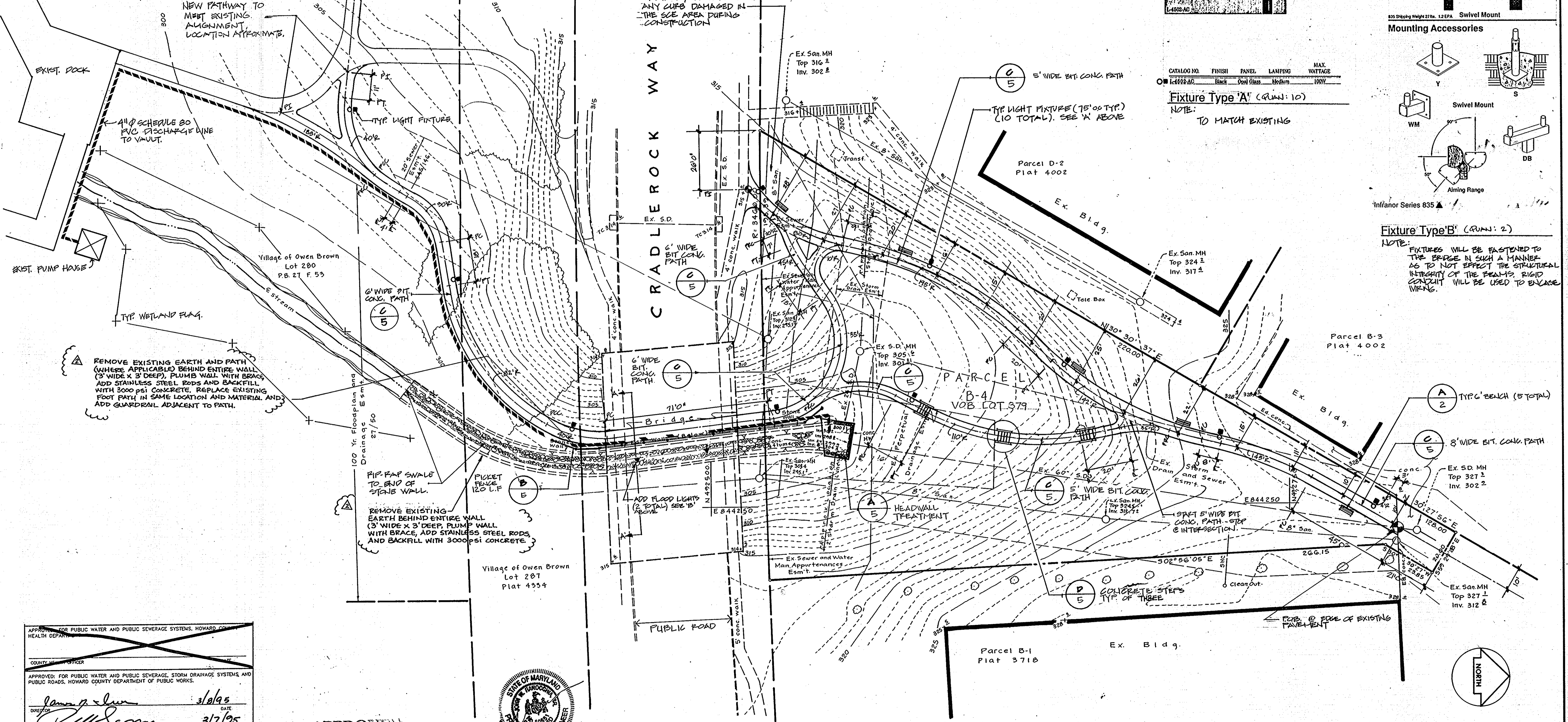
Components:
 Housing: One piece, D-shaped, extruded aluminum alloy with integrally extruded heat dissipating fins. End caps are aluminum plate, fastened to the housing with stainless steel screws and sealed with an E.P.D.M. gasket.
 Reflector: High purity anodized specular or patterned aluminum sheet in a choice of forms provide a wide selection of regular, constricted, high proportioned or broad proportioned rectangular beam shapes.
 Lens Assembly: Clear tempered glass lens.
 Ballast Assembly: A removable, extruded aluminum component tray contains the reflector system, lamp and ballast components.
 Finish: Electrostatically applied dark bronze, baked enamel is standard. Optional Duranod finishes and other painted colors are available, consult factory.
 U.L. Fixture is U.L. listed for use in wet locations.



CATALOG NO.	FINISH	PANEL	LAMPING	MAX. WATTAGE
14502-AC	Black	Opal Glass	Bottom	100W

Fixture Type 'A' (QUAN: 10)
 NOTE: TO MATCH EXISTING

Fixture Type 'B' (QUAN: 2)
 NOTE: FIXTURES WILL BE FASTENED TO THE BRIDGE IN SUCH A MANNER AS TO NOT AFFECT THE STRUCTURAL INTEGRITY OF THE BEAMS. RIGID CONDUIT WILL BE USED TO ENCASE WIRING.



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DATE: 3/10/95

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APPROVED
 PLANNING DEPARTMENT
 OF HOWARD COUNTY
 DATE: 29 Sept. 94



TOPOGRAPHIC SURVEY
PARCEL B-4
 VILLAGE OF OWEN BROWN
 SECTION 1 AREA 1
 Plat Ref. No. 4002
 4th Election Dist., Howard County, Md.

Prepared by:
Slater Associates
 5560 Sterrett Place, Suite 302, Columbia, MD 21044
 (410) 992-0001 fax (410) 992-0212

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 817 Maiden Choice Lane, Suite 300,
 Baltimore, MD 21228
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no.	description	date
1	DESCRIPTION OF VISION COMMENTS AND NOTES AND RETAINING WALL REPAIR ELEVATION TO PLAN.	8-5-94

Project:
Owen Brown Pathway Connector

Sheet Title:
Construction Layout

Owner:
The Columbia Park & Recreation Association
 10221 Winocoin Circle, Suite 100, Columbia, MD 21044
 (410) 715-3000 Fax (410) 715-3042

SCALE	1"=20'
DRAWN	CHECKED
PROJ. NO.	DATE
Sheet No. 2 of 5	

SDP 94-130