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NO.	REVISION	DATE
2	ADA PARKING AND ADD SHEETS 82-109	MARCH 2021

INSTRUCTIONS FOR FUTURE REDLINES
 Only on Sheet 1 the index and revision box shall be revised and on Sheet 82 the index and revision box shall be revised.

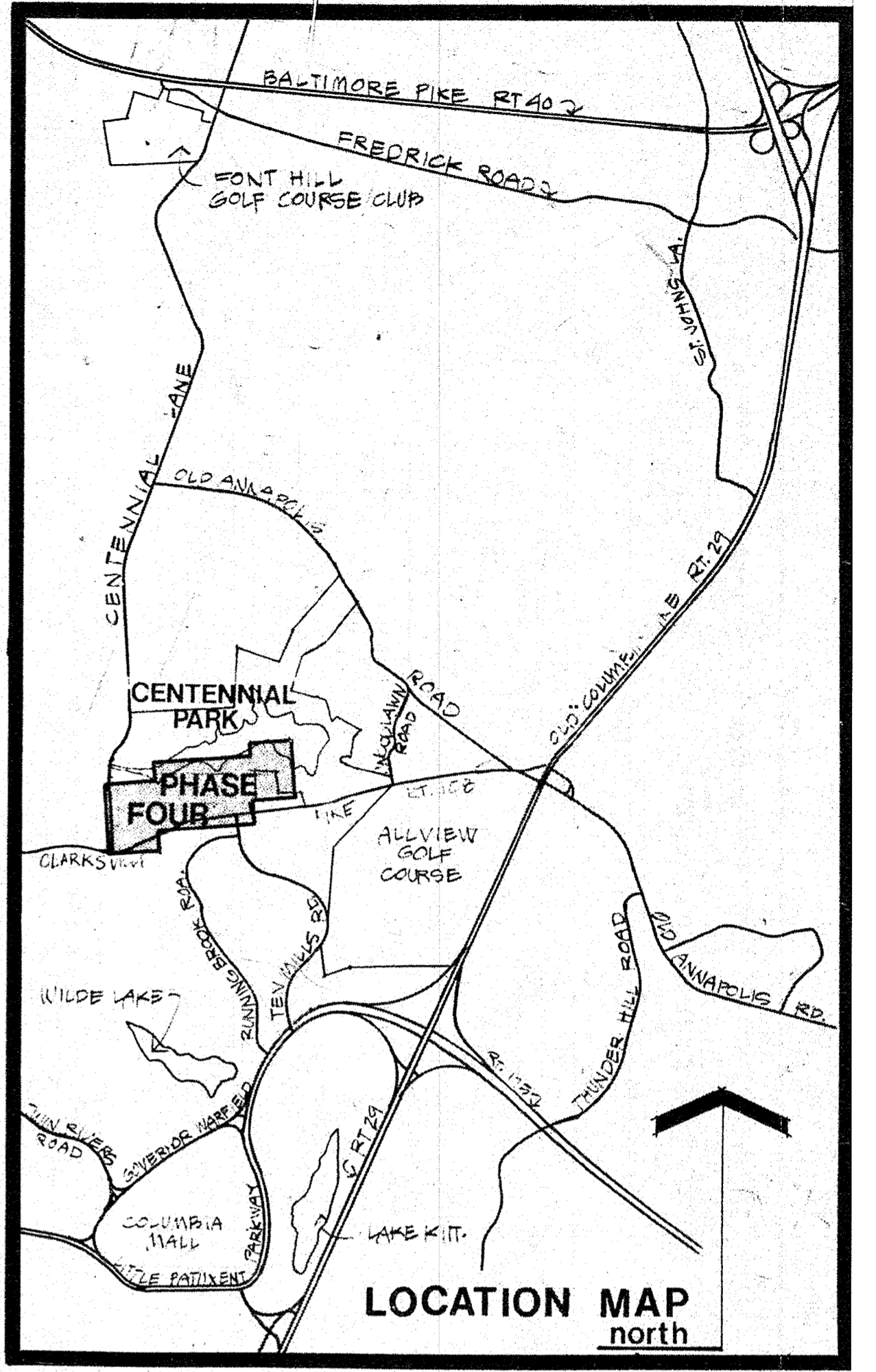
CENTENNIAL PARK

CAPITAL PROJECT NO. N-4-3014

PHASE FOUR - LAKESHORE SOUTH AREA

**DEPT. OF PUBLIC WORKS FOR THE
 DEPT. OF RECREATION AND PARKS
 HOWARD COUNTY MARYLAND**

- LEGEND**
- EXISTING MAINT. ROAD TO BE REMOVED
 - EXISTING ROAD TO BE REMOVED
 - CONTRACT LIMIT LINE C.L.L.
 - LIMIT OF CUT/FILL
 - TREES TO BE REMOVED
 - TREES TO BE SAVED AND PROTECTED
 - EDGE OF PROPOSED LAKE
 - B-1 BORING LOCATION
 - T-1 TEST PIT



APPROVED: For public Water, Drainage Systems and Storm and Storm
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

 DIRECTOR DATE

APPROVED: For public Sewerage Systems Water and Storm
 HOWARD COUNTY HEALTH DEPARTMENT

 COUNTY HEALTH OFFICER DATE 1-25-84

APPROVED: Howard County Office of Planning and Zoning

 PLANNING DIRECTOR DATE

 CHIEF, DIVISION OF LAND DEVELOPMENT & ZONING ADMIN. DATE

ENGINEER'S CERTIFICATE

"I CERTIFY THAT THE 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 DATE

DEVELOPER'S CERTIFICATE

"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE IN ACCORDANCE WITH THE PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL, AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY. DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT."

 SIGNATURE OF DEVELOPER DATE

REVIEWED FOR Howard S.C.D. AND MEETS TECHNICAL REQUIREMENTS
 NAME DATE 1-4-84

 SIGNATURE DATE
 U.S. SOIL CONSERVATION SERVICE

SITE ANALYSIS

ZONING OF PROPERTY	R-20
TOTAL AREA OF SITE	89.8 ACRES
TOTAL AREA DISTURBED	38.8 ACRES
TOTAL EXISTING IMPERVIOUS AREA	0 ACRES
TOTAL PROPOSED IMPERVIOUS AREA	5.2 ACRES
NET INCREASE IMPERVIOUS AREA	6.4% 4%
TOTAL REVEGETATED AREA	33.8 ACRES
TOTAL AREA UNDISTURBED	50.5 ACRES

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

 APPROVED DATE 1-3-84
 HOWARD S.C.D. DATE

SHEET INDEX

SH'T NO.	DESCRIPTION	SH'T NO.	DESCRIPTION	SH'T NO.	DESCRIPTION
1	Cover Sheet	40	Electrical Site Plan, Details and Notes	25A	Boat Dock/Concession Cluster Construction Details/Trellis Plan
2	Area A Existing Conditions/Demolition Plan	41	Area A Landscaping Plan	26A	Restroom Building Foundation Plan & Elevations
3	Area B Existing Conditions/Demolition Plan	42	Area B Landscaping Plan	27A	Restroom Building Floor Plan & Elevations
4	Area C Existing Conditions/Demolition Plan	43	Area C Landscaping Plan	28A	Restroom Building Roof Framing Plan Elevations
5	Area D Existing Conditions/Demolition Plan	44	Area D Landscaping Plan	29A	Restroom Building Details
6	Area A Construction Layout	45	Landscaping Details	30A	Restroom Building Details
7	Area B Construction Layout	46	Boathouse Concession Building Planting/Grading Plan	31A	Restroom Building Details
8	Area C Construction Layout	47	Site Layout - Restroom Misc. Details	32A	Small Picnic Shelter Floor Plans
9	Area D Construction Layout			33A	Small Picnic Shelter Elevations
10	Area A Grading Plan			34A	Small Picnic Shelter Construction Details
11	Area B Grading Plan			35A	Restroom Building #2- Plumbing
12	Area C Grading Plan				
13	Area D Grading Plan				
14	Area A-D Drainage Area Map				
15					
16					
17	Area C Sediment & Erosion Control				
18	Area B Sediment & Erosion Control				
19	Road Profiles				
20	Road Profiles				
21	Road Profiles				
22	Typical Sections				
23	Paving Details				
24	Area B Utility Plan				
25	Area C Utility Plan				
26	Area D Utility Plan				
27	Storm Drain Profiles				
28	Storm Drain and Sediment & Erosion Control Details				
29	Miscellaneous Details				
30	Boat Launch Ramp				
31	Tot-Lot Layout Plan & Miscellaneous Details				
32	Mechanical-Kitchen Plan, Details Sections & Schedule				
33	Mechanical-Office & General Layout				
34	Mechanical-Plumbing Plan & Details				
35	SANITARY SEWER PROFILE, TILE FIELD & DETAILS				
36	Pump Station, Detail and Sections				
37	Electrical - Concession Bldg. Schedule & Notes				
38	Electrical - Concession Bldg. Symbol List, Schedules and Details				
39	Restroom Bldg. - Electrical Plan, Service Layout and Details				

APPROVED:
 DIRECTOR OF RECREATION & PARKS

 SIGNATURE DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

 Chief, Development Engineering Division Date 7/21/21

 Chief, Division of Land Development Date 7/23/21

 Director Date 7/23/21

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City

Elect. Dist. No. 2, Ho. Co. Tax Map No. 30

Law Docket A-3652

Liber 781 Folio 592, Parcel 345, 63.6 Ac.

Liber 333 Folio 62, Parcel (Partial) 10, 42.9 Ac.

Liber 507 Folio 437, Parcel 278, 61.45 Ac.

Adjacent Property Owners:

Name	Liber	Folio	Acres	Parcel
Legg, M. R.	875	471	1.01	126
Zaiser, W. J.	259	195	7.08	92
Saas, J. A.	274	299	2.36	93
Taury, J. P.	611	589	1.23	149
	383	604	1.16	94

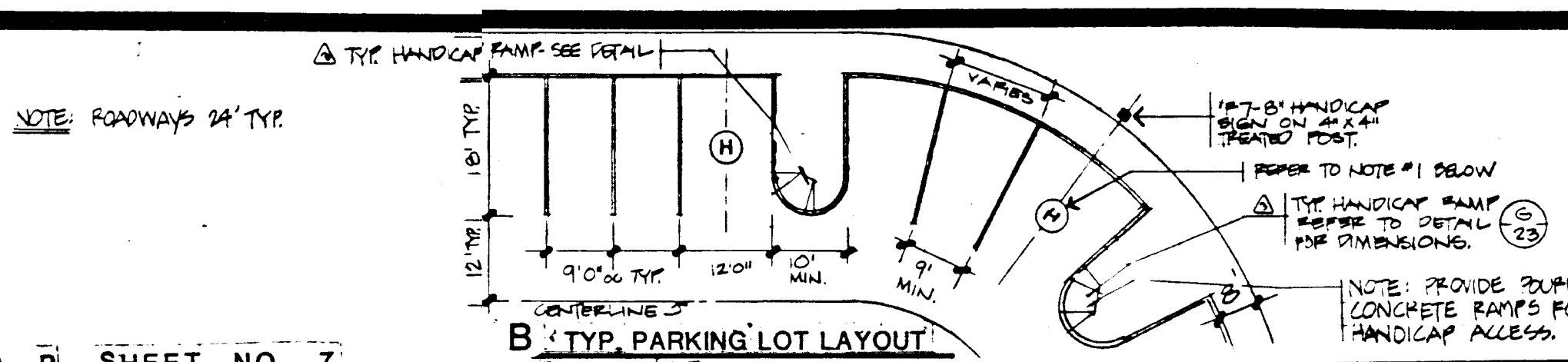
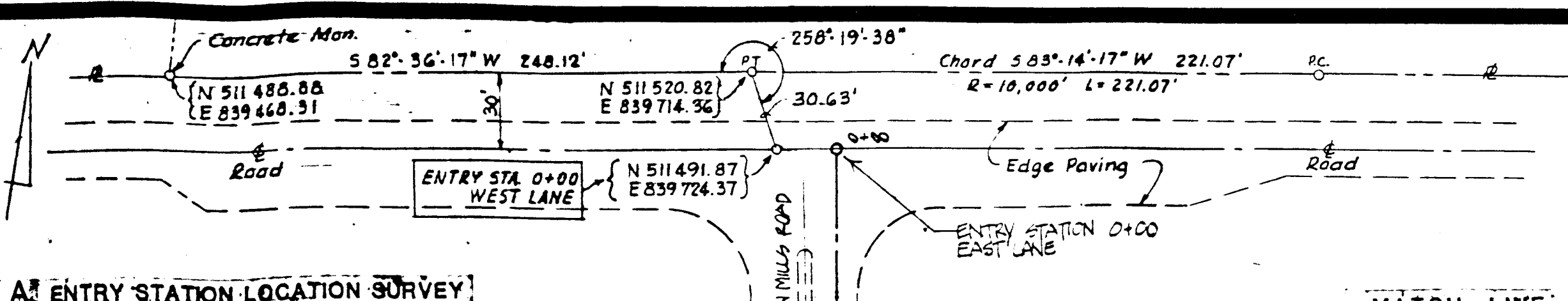
LD LAND DESIGN / RESEARCH, INC.
 5560 STERRET PLACE, SUITE 300
 COLUMBIA, MARYLAND 21044

COVER SHEET

CENTENNIAL PARK
PHASE FOUR LAKESHORE SOUTH AREA

DATE	REVISIONS:	SHEET NO.
0-1-83		1
SCALE		OF 81
DRAWN	TRE	
CHECKED	0-21-83	

TAMM LIT SDP-84-165



NOTE REFER TO SHEET NO. 22 FOR CROSS SECTIONS 'A-A' TO 'E-E'

APPROVED: For Public Water, Drainage Systems and Roads and Storm
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: [Signature] DATE: 8-26-84
 CHIEF, BUREAU OF ENGINEERING

APPROVED: For Public Sewerage Systems and Private
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: [Signature] DATE: 1-25-84

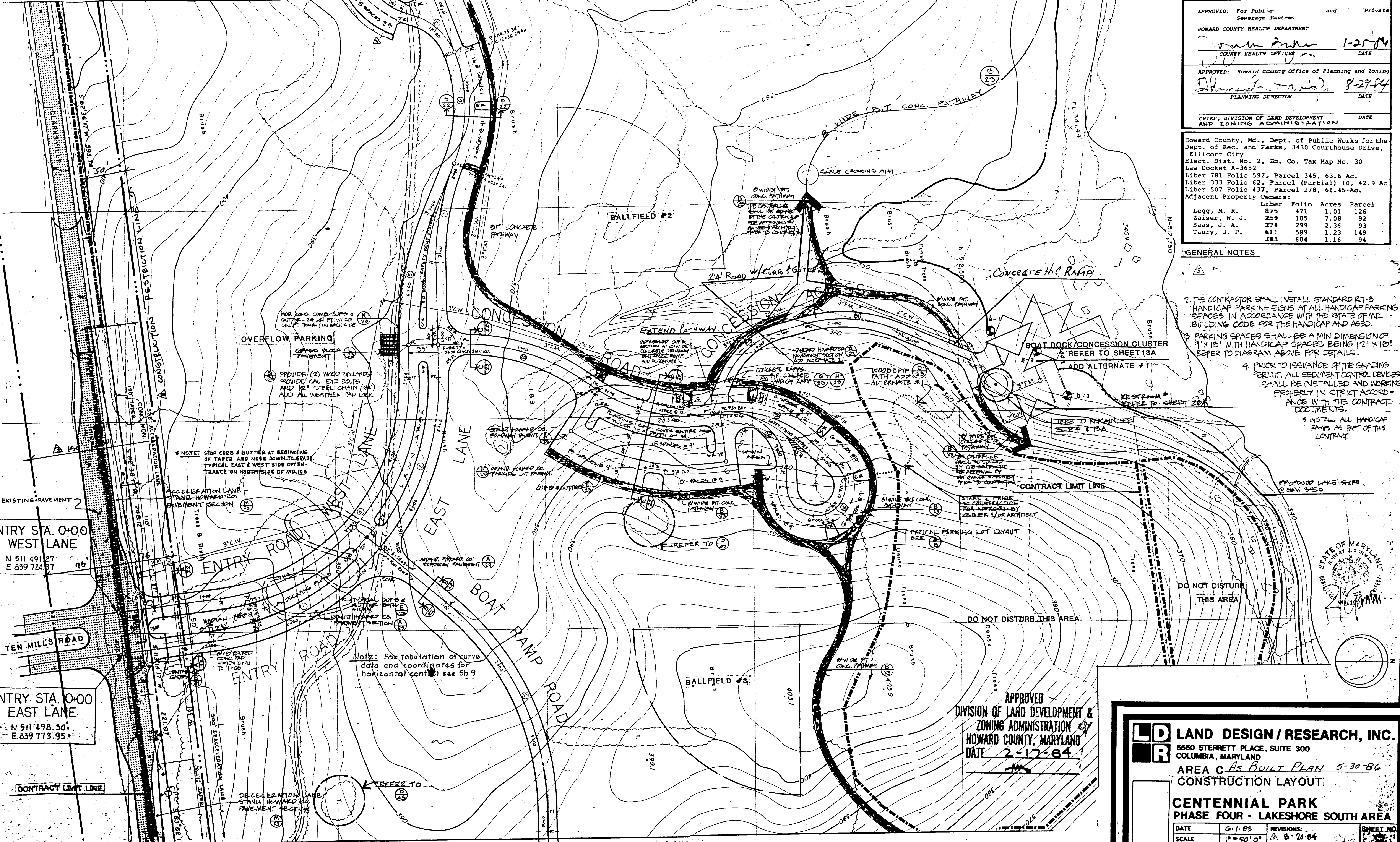
APPROVED: Howard County Office of Planning and Zoning
 PLANNING DIRECTOR: [Signature] DATE: 8-27-84
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City
 Elect. Dist. No. 2, Bd. Co. Tax Map No. 30
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Taury, J. P.	611	589	1.23	149
	383	604	1.16	94

A2 ENTRY STATION LOCATION SURVEY
 NO SCALE

MATCH LINE AREA B SHEET NO. 7



- GENERAL NOTES
1. THE CONTRACTOR SHALL INSTALL STANDARD R7-B HANDICAP PARKING SIGNS AT ALL HANDICAP PARKING SPACES IN ACCORDANCE WITH THE STATE OF MD. BUILDING CODE FOR THE HANDICAP AND AED.
 2. THE CONTRACTOR SHALL INSTALL STANDARD R7-B HANDICAP PARKING SIGNS AT ALL HANDICAP PARKING SPACES IN ACCORDANCE WITH THE STATE OF MD. BUILDING CODE FOR THE HANDICAP AND AED.
 3. PARKING SPACES SHALL BE A MIN DIMENSION OF 9' x 10' WITH HANDICAP SPACES BEING 12' x 10'. REFER TO DIAGRAM ABOVE FOR DETAILS.
 4. PRIOR TO ISSUANCE OF THE GRADING PERMIT, ALL SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AND WORKING PROPERLY IN STRICT ACCORDANCE WITH THE CONTRACT DOCUMENTS.
 5. INSTALL ALL HANDICAP RAMPS AS PART OF THIS CONTRACT.

ENTRY STA. 0+00 WEST LANE
 N 511 491.87
 E 839 724.87

ENTRY STA. 0+00 EAST LANE
 N 511 498.30
 E 839 773.95

APPROVED
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 2-17-84

LD R LAND DESIGN / RESEARCH, INC.
 5560 STERRETT PLACE, SUITE 300
 COLUMBIA, MARYLAND
 AREA C AS BUILT PLAN 5-30-86
 CONSTRUCTION LAYOUT

**CENTENNIAL PARK
 PHASE FOUR - LAKESHORE SOUTH AREA**

DATE	6-1-83	REVISIONS:	
SCALE	1" = 50' @		8-20-84
DRAWN	NHO		
CHECKED	10-21-83		

SHEET NO. 8 OF 81

MATCH LINE AREA 'D' SHEET NO. 9

NOTE :
REFER TO SHEET NO. 9
FOR CONSTRUCTION LAYOUT.
REFER TO SHEET NO. 26
FOR UTILITY PLAN .

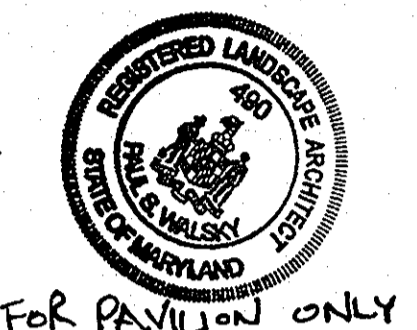
Reviewed for Howard p.c.
and meets Technical Requirements
Signature [Signature] Date 6-27-84
U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED
FOR SOIL EROSION AND SEDIMENT
CONTROL BY THE HOWARD SOIL
CONSERVATION DISTRICT
Approved [Signature] Date 10-27-83
Howard S.C.D.

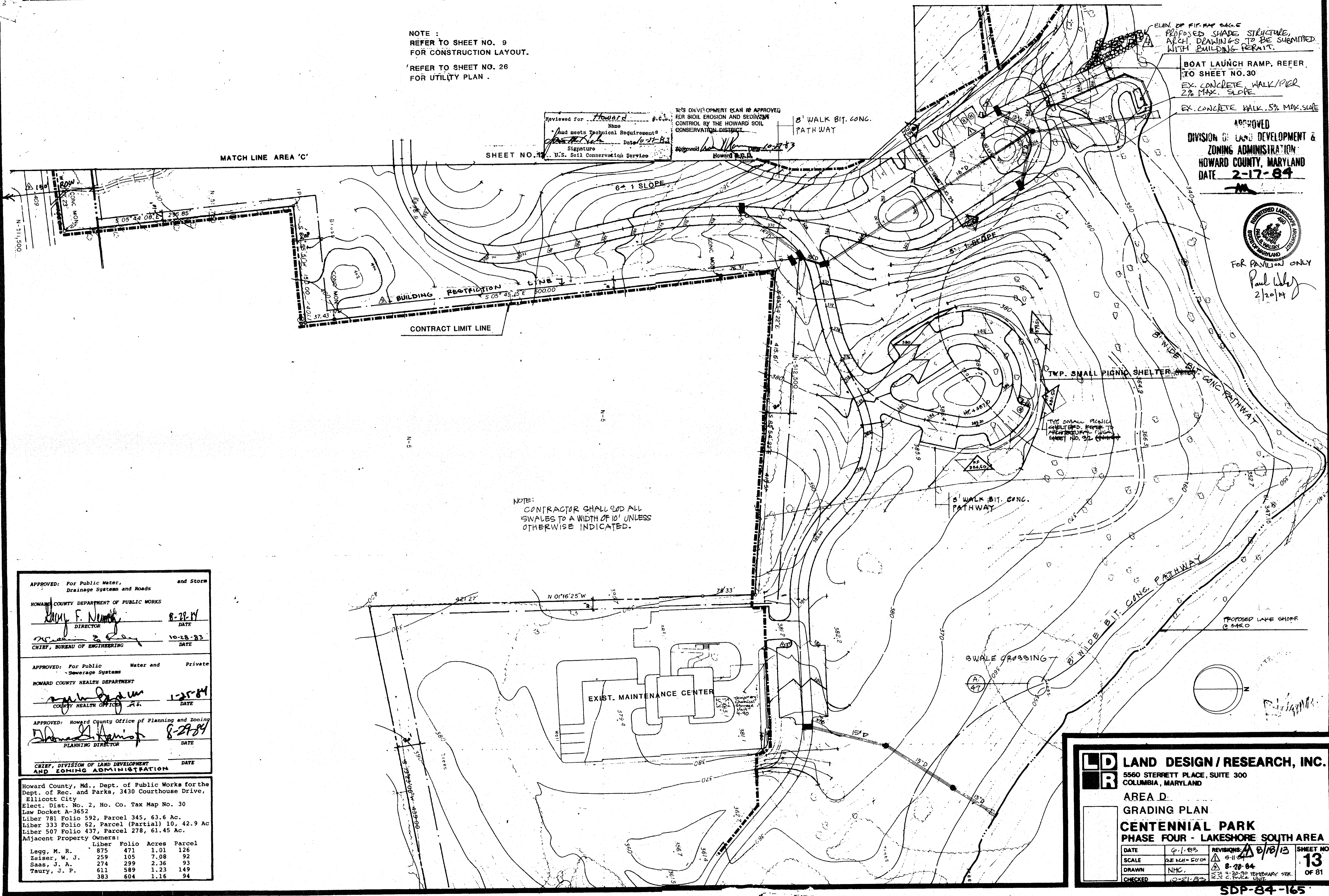
ELEV. OF FIN. MAP 84G.C
PROPOSED SHADE STRUCTURE,
ARCH. DRAWINGS TO BE SUBMITTED
WITH BUILDING PERMIT.

BOAT LAUNCH RAMP, REFER
TO SHEET NO. 30
EX. CONCRETE WALK/PIER
2% MAX. SLOPE
EX. CONCRETE WALK .5% MAX. SLOPE

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 2-17-84



FOR PAVILION ONLY
Paul W. W.
2/20/84



NOTE:
CONTRACTOR SHALL BOLD ALL
SWALES TO A WIDTH OF 10' UNLESS
OTHERWISE INDICATED.

APPROVED: For Public Water, and Storm
Drainage Systems and Roads
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature] 8-28-84
DIRECTOR DATE
[Signature] 10-28-83
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: For Public Water and Private
Sewerage Systems
HOWARD COUNTY HEALTH DEPARTMENT
[Signature] 1-25-84
COUNTY HEALTH OFFICER DATE

APPROVED: Howard County Office of Planning and Zoning
[Signature] 8-29-84
PLANNING DIRECTOR DATE
CHIEF, DIVISION OF LAND DEVELOPMENT
AND ZONING ADMINISTRATION

Howard County, Md., Dept. of Public Works for the
Dept. of Rec. and Parks, 3430 Courthouse Drive,
Ellicott City
Elect. Dist. No. 2, Ho. Co. Tax Map No. 30
Law Docket A-3652
Liber 781 Folio 592, Parcel 345, 63.6 Ac.
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Saas, J. A.	274	299	2.36 93
Taury, J. P.	611	589	1.23 149
	383	604	1.16 94

LD LAND DESIGN / RESEARCH, INC.
5560 STERRETT PLACE, SUITE 300
COLUMBIA, MARYLAND

AREA D
GRADING PLAN
CENTENNIAL PARK
PHASE FOUR - LAKESHORE SOUTH AREA

DATE	6-1-83	REVISIONS	8/18/13	SHEET NO.	13
SCALE	ONE INCH = 50' OR			OF 81	
DRAWN	NHC		8-20-84		
CHECKED	[Signature]		8-21-84		

SDP-84-165

By the Developer:

"I hereby certify that all development and construction shown on this plan and that any work to be done hereunder is in accordance with the provisions of the plan and that the same are in accordance with the requirements of the Department of National Resources Approval Training Program for the Control of Erosion and Sedimentation before beginning the project."

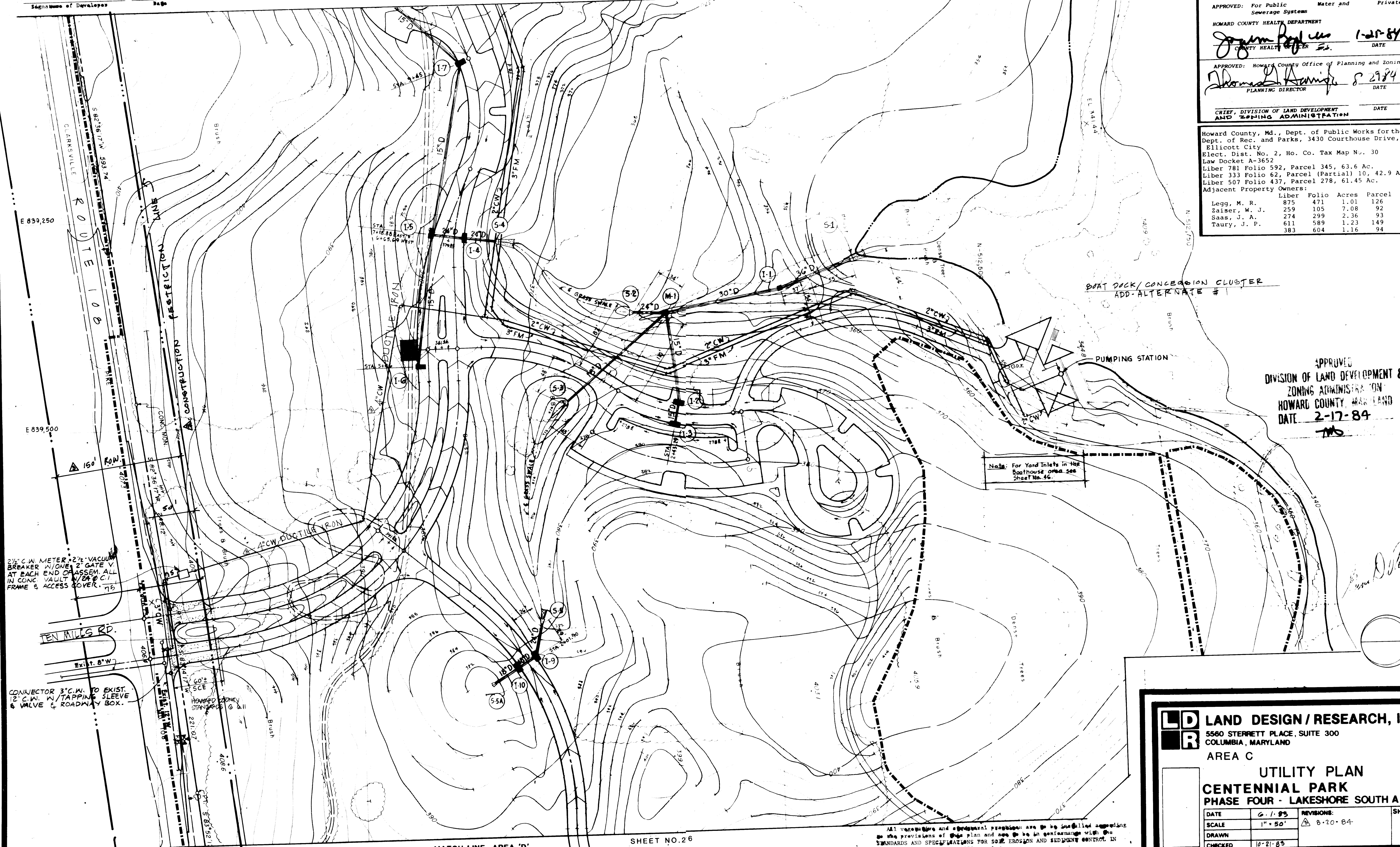
By the Engineer:

"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 _____ Date _____

Signature of Developer _____ Date _____

MATCH LINE SHEET NO. 24 AREA 'B'



APPROVED: For Public Water, Drainage Systems and Storm and Storm
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 8-27-84
 DATE
 1-18-85
 DATE
 APPROVED: For Public Water and Private
 Sewerage Systems
 HOWARD COUNTY HEALTH DEPARTMENT
 1-27-84
 DATE
 APPROVED: Howard County Office of Planning and Zoning
 8-27-84
 DATE
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City, Md. 21043
 Elect. Dist. No. 2, Ho. Co. Tax Map No. 30
 Law Docket A-3652
 Liber 781 Folio 592, Parcel 345, 63.6 Ac.
 Liber 333 Folio 62, Parcel (Partial) 10, 42.9 Ac.
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Taury, J. P.	611	589	1.23	149
	383	604	1.16	94

APPROVED
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 2-17-84

Note: For Yard Inlets in the Boat House area see Sheet No. 46.

LD R LAND DESIGN / RESEARCH, INC.
 5560 STERRETT PLACE, SUITE 300
 COLUMBIA, MARYLAND
 AREA C
 UTILITY PLAN
 CENTENNIAL PARK
 PHASE FOUR - LAKESHORE SOUTH AREA

DATE	6-1-85	REVISIONS:		SHEET NO.
SCALE	1" = 50'		8-20-84	25
DRAWN				OF 87
CHECKED	10-21-85			

All vegetation and structural provisions are to be installed according to the provisions of this plan and are to be in accordance with the STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS, dated 1975, or later.

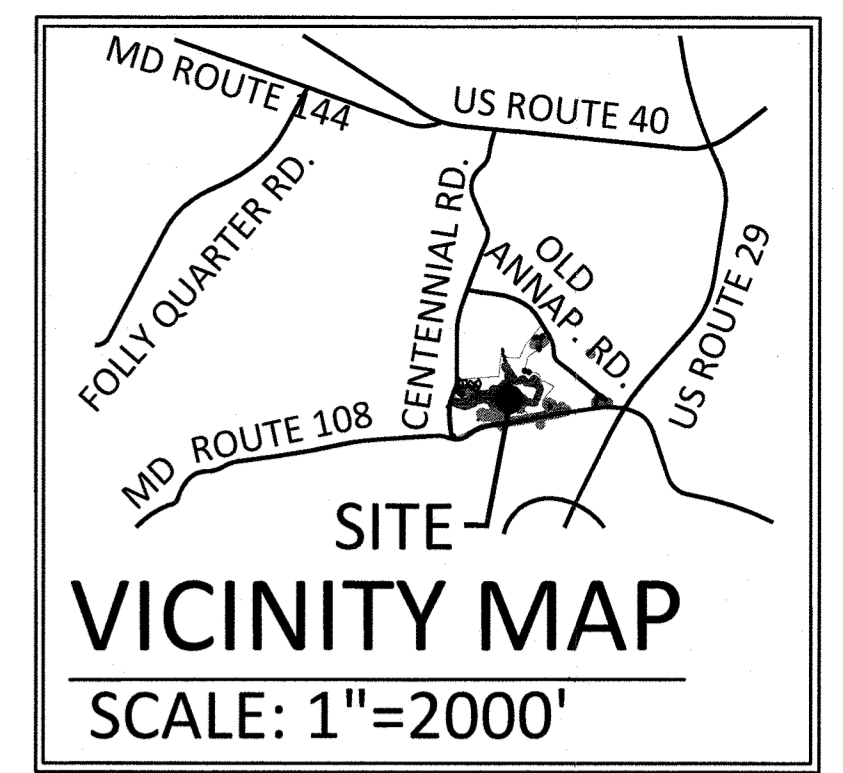
MATCH LINE AREA 'D' SHEET NO. 26

SDP-84-165

CENTENNIAL PARK SITE DEVELOPMENT PLAN SDP-84-165

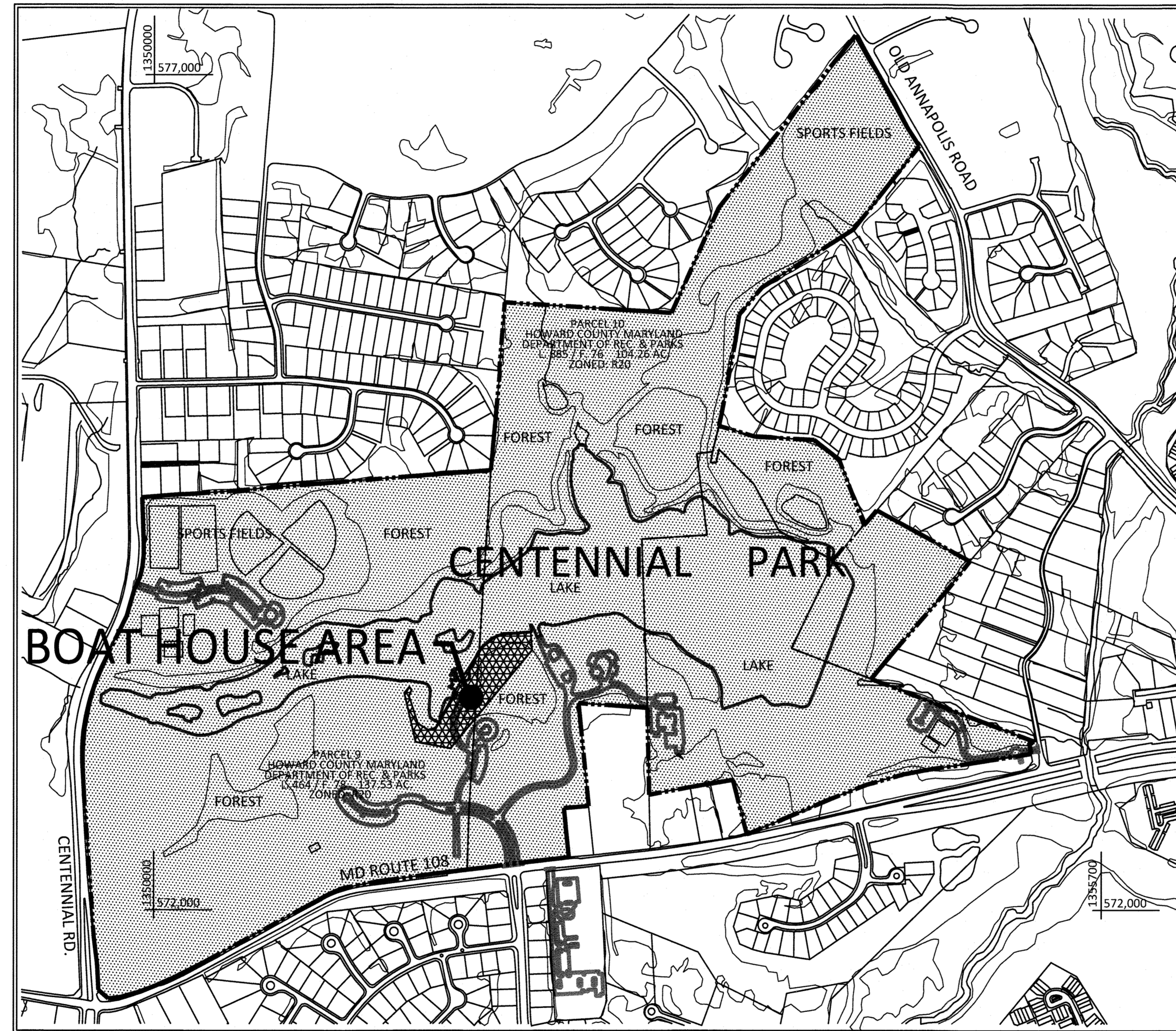
10,000 CLARKSVILLE PIKE, ELICOTT CITY, MARYLAND

CONSTRUCTION FUNDING: WBS- N0009.3.5000 AND N0010.3.5000



GENERAL NOTES

- 1) SUBJECT PROPERTY ZONED R-20 PER THE 10/06/2013 COMPREHENSIVE PLAN.
 - 2) PROPERTY ADDRESS: 10,000 CLARKSVILLE PIKE, ELICOTT CITY, MARYLAND 21042
 - 3) TOTAL PROPERTY AREA IN CURRENT PROJECT: 241.89 AC.
A) MAP 30 GRID 7 PARCEL 9 L.F.464/78 TAX ACCOUNT: 2-223082, 137.53 ACRES
B) MAP 30 GRID 2 PARCEL 10 L.F.885/76 TAX ACCOUNT: 2-218690, 104.36 ACRES
 - 4) PUBLIC WATER AND PUBLIC SEWER ARE USED WITHIN THIS SITE.
 - 5) THE TOPOGRAPHY SHOWN HEREON HAS BEEN FIELD RUN BY HOWARD COUNTY SURVEY DIVISION ON MAY 8, 2018 AND REVISED APRIL 18, 2019 AND MARCH 15, 2019. THE TOPOGRAPHY SHOWN BEYOND THE LIMIT OF FIELD RUN SURVEY IS BASED ON HOWARD COUNTY AERIAL TOPOGRAPHY FLOWN IN 2011.
 - 6) THE SOILS INDICATED ARE FROM THE U.S. DEPARTMENT OF AGRICULTURE, NATURAL RESOURCE CONSERVATION SERVICE WEB SOIL SERVICE WEBSITE.
 - 7) THERE ARE NO WETLANDS, WETLAND BUFFERS, STREAMS OR STREAM BUFFERS WITHIN THE LIMIT OF WORK ON SHEETS 86 THROUGH 106. DISTURBANCE IS WITHIN THE 100 YEAR FLOOD PLAIN AND IS BEING REVIEWED BY MARYLAND DEPARTMENT OF THE ENVIRONMENT (PERMIT NUMBER: 202160157).
 - 8) THERE ARE NO EXISTING WELLS, SEPTIC SYSTEMS AND SEWAGE DISPOSAL EASEMENTS WITHIN 100 FEET OF THE LIMIT OF DISTURBANCE.
 - 9) EXISTING UTILITIES ARE LOCATED BY THE USE ON ALL OF THE FOLLOWING CONSTRUCTION PLANS, FIELD SURVEYS, PUBLIC WATER AND SEWER PLANS AND OTHER AVAILABLE RECORD DRAWINGS. APPROXIMATE LOCATION OF THE EXISTING UTILITIES ARE INDICATED FOR THE CONTRACTOR'S INFORMATION. CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
 - 10) SOILS INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCE CONSERVATION SERVICE, WEB SOIL SURVEY WEBSITE AND INDICATED FOR THE CONTRACTOR'S INFORMATION. INVESTIGATIONS SHOW UNSATISFACTORY SOIL CONDITIONS FOR ANY OF THE STORMWATER MANAGEMENT TREATMENTS SHOWN, EITHER UNDERDRAINS WILL BE PROVIDED OR A DIFFERENT PRACTICE WILL BE SUBSTITUTED.
 - 11) THE COORDINATES SHOWN HERE ON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL, WHICH IS BASED ON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY CONTROL POINTS 30BA AND 30DB WERE USED FOR THIS PROJECT.
 - 12) NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE LIMITS OF WETLANDS, STREAMS OR THEIR REQUIRED BUFFERS, FLOODPLAIN AND FOREST CONSERVATION EASEMENT AREAS, UNLESS WAIVERS HAVE BEEN APPROVED OR ACTIVITIES HAVE BEEN DETERMINED ESSENTIAL BY THE DEPARTMENT OF PLANNING AND ZONING.
 - 13) THE STORMWATER MANAGEMENT OBLIGATIONS FOR SHEETS 83 THROUGH 106 WILL BE MET BY ONE MICRO-BIORETENTION FACILITY.
 - 14) NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE LIMITS OF WETLANDS, STREAMS OR THEIR REQUIRED BUFFERS, FLOODPLAIN AND FOREST CONSERVATION EASEMENT AREAS, UNLESS WAIVERS HAVE BEEN APPROVED OR ACTIVITIES HAVE BEEN DETERMINED ESSENTIAL BY THE DEPARTMENT OF PLANNING AND ZONING.
 - 15) THE FOREST CONSERVATION OBLIGATION FOR THIS PLAN WILL BE MET BY OFFSITE FOREST BANKING. THE TOTAL AFFORESTATION REQUIREMENT OF 0.3 ACRES WILL BE PROVIDED AT THE PRESERVE AT CLARKSVILLE SUBDIVISION FILE F-06-072. THIS BANK LOCATION IS OWNED BY HOWARD COUNTY GOVERNMENT AND MANAGED AND TRACKED BY THE DEPARTMENT OF RECREATION AND PARKS NATURAL RESOURCE BUREAU AND THE DEPARTMENT OF PLANNING AND ZONING DIVISION OF LAND DEVELOPEMNT.
 - 16) ALTERNATIVE COMPLIANCE WP-21-059 WAS APPROVED ON JANUARY 7, 2021 WITH RESPECT TO SECTION 16.1201.(v) AND SECTION 16.1205(a)(3) OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS TO USE THE LOD TO SERVE AS THE NET TRACT AREA FOR CALCULATING THE FOREST CONSERVATION OBLIGATION AND REMOVE ONE SPECIMEN TREE, A 36" LIRODENDRON TULIPFERA.
- THE APPROVAL OF COMPLIANCE OF SECTION 16.1201.(v) AND SECTION 16.1205(a)(3) IS SUBJECT TO THE FOLLOWING CONDITIONS:
THE APPROVAL OF THE ONE SPECIMEN TREE WILL BE MITIGATED BY PLANTING 2 NATIVE TREES WITH A DBH OF 3" IN OR NEAR THE PROJECT SITE.
FOR MITIGATION SEE SHEET 96 AND 97 FOR THE PROPOSED 2 TREES:
-ONE AMERICAN BEECH, 3 INCH CAL.
-ONE AMERICAN HOLLY, 3 INCH CAL.

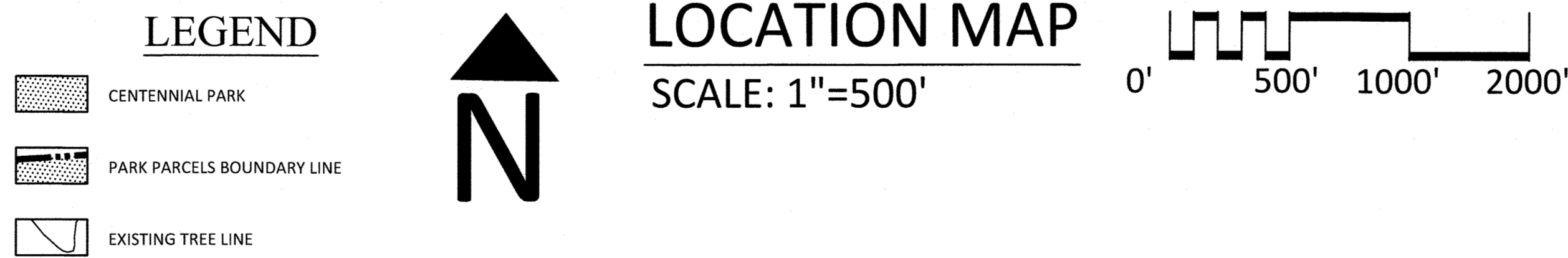


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NOTE: SHEETS 82 - 109 ARE ADDED SHEETS, MARCH 2021.

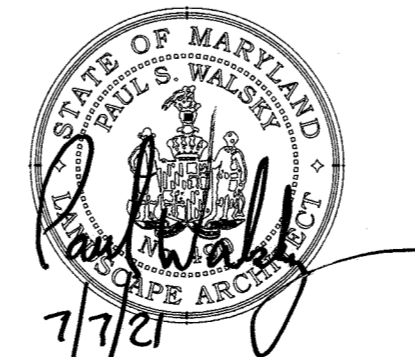
NOTES

- 1) THE ORIGINAL DRAWINGS FOR THE INITIAL CONSTRUCTION OF CAPITAL PROJECT SDP-84-165 CENTENNIAL PARK ARE NOT ON FILE AS OF JANUARY, 2021. ONLY PART OF THE ORIGINAL SET ARE ON FILE.
- 2) THE INITIAL DESIGN AND CONSTRUCTION OF CENTENNIAL PARK - SOUTH AREA INCLUDED DEVELOPMENT OF ROADS, PARKING LOTS, PATHWAYS, UTILITIES, GRADING AND STRUCTURES.



Department of
Recreation & Parks
Bureau of Capital Projects, Park
Planning & Construction

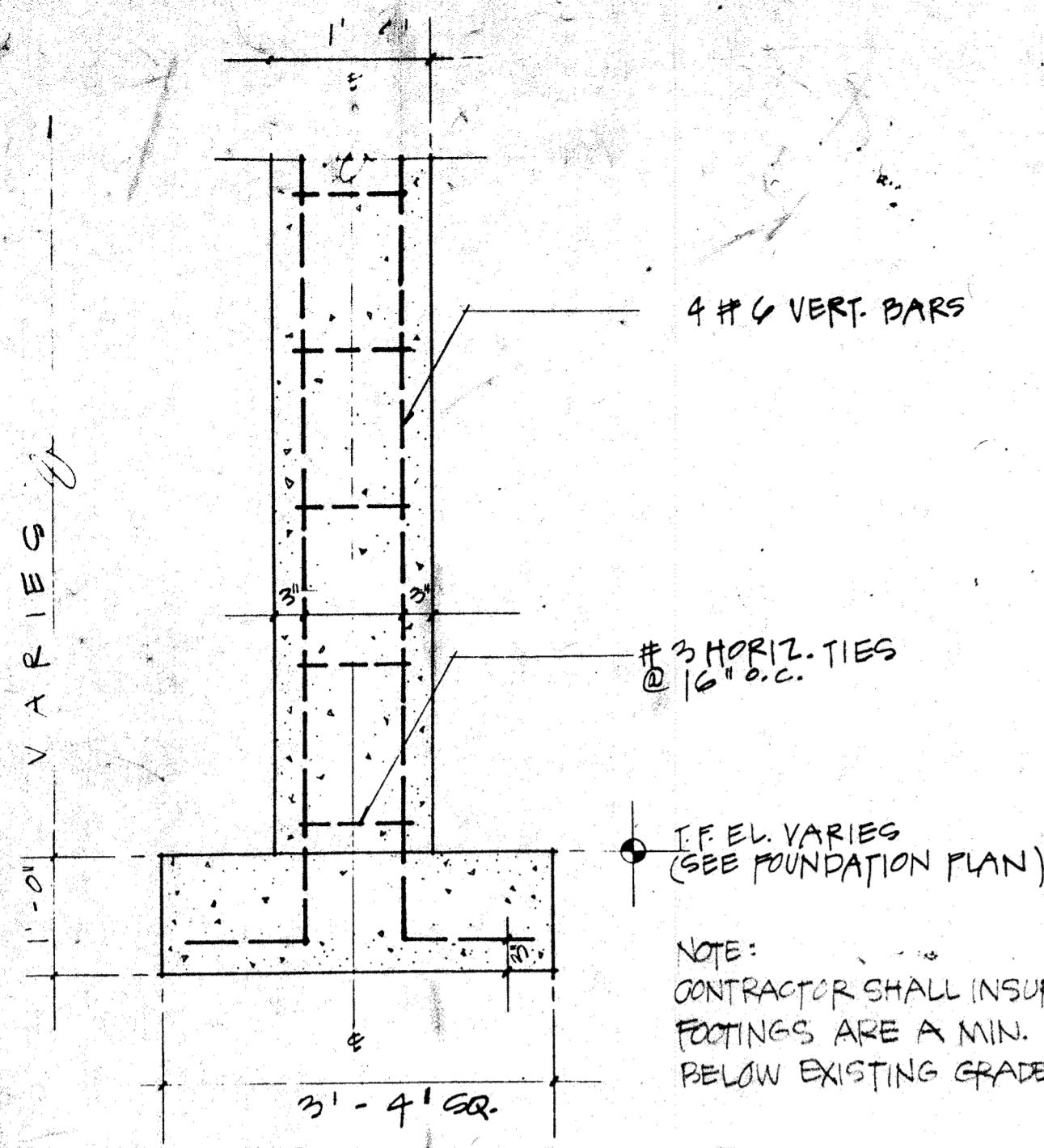
DESIGN PROFESSIONAL:
PAUL WALSKY
HOWARD CO. DEPT. OF REC. & PARKS
7120 OAKLAND MILLS ROAD
COLUMBIA, MARYLAND 21046
TELEPHONE NUMBER: 410 313-1695



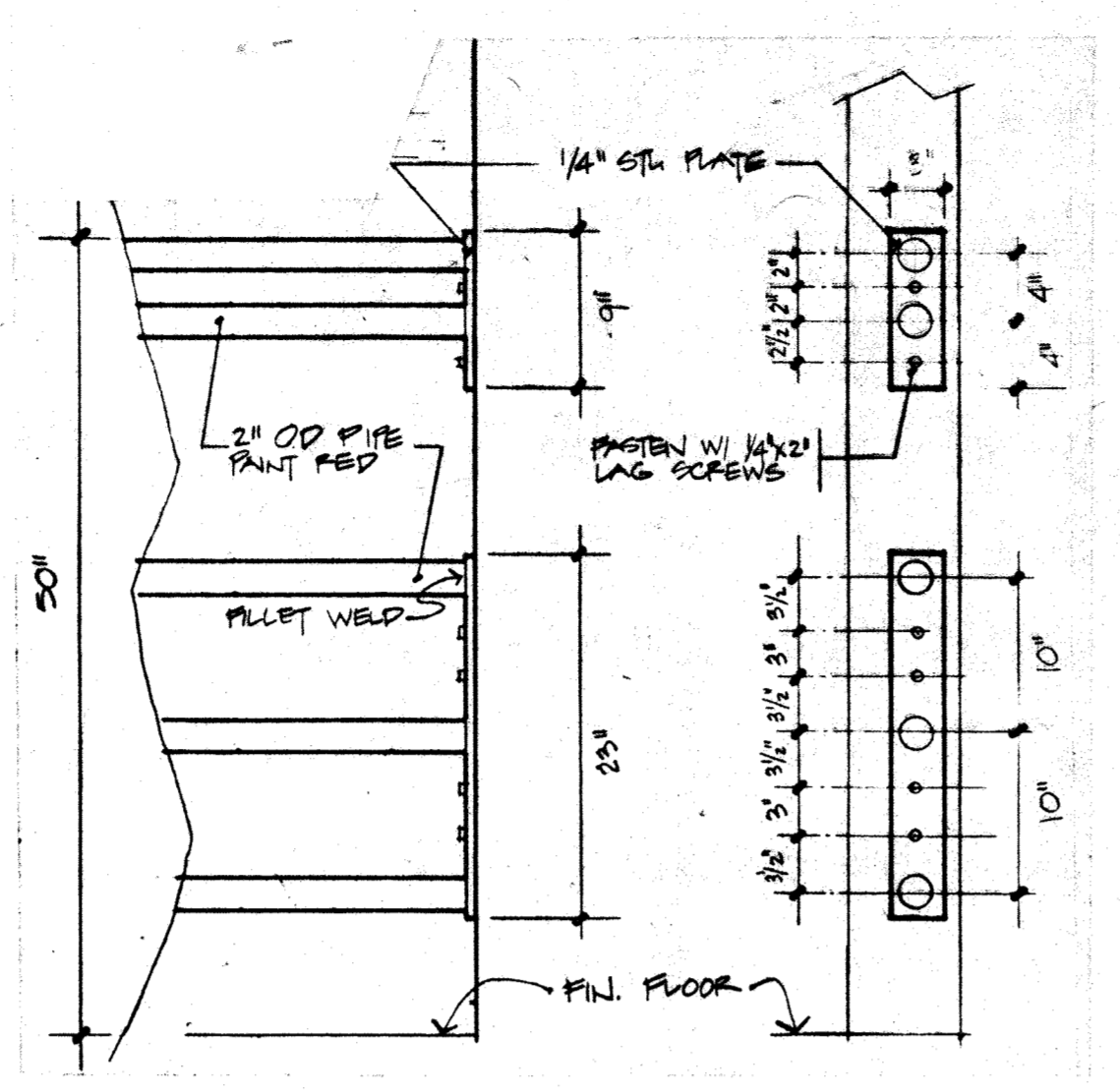
NO.	REVISION	DATE
2	ADA PARKING AND ADD SHEETS 82-109	MARCH 2021

APPROVED: DEPARTMENT OF PLANNING & ZONING	
Chief, Development Engineering Division	7/14/21
Chief, Division of Land Management Development	7/23/21
Director	7/30/21

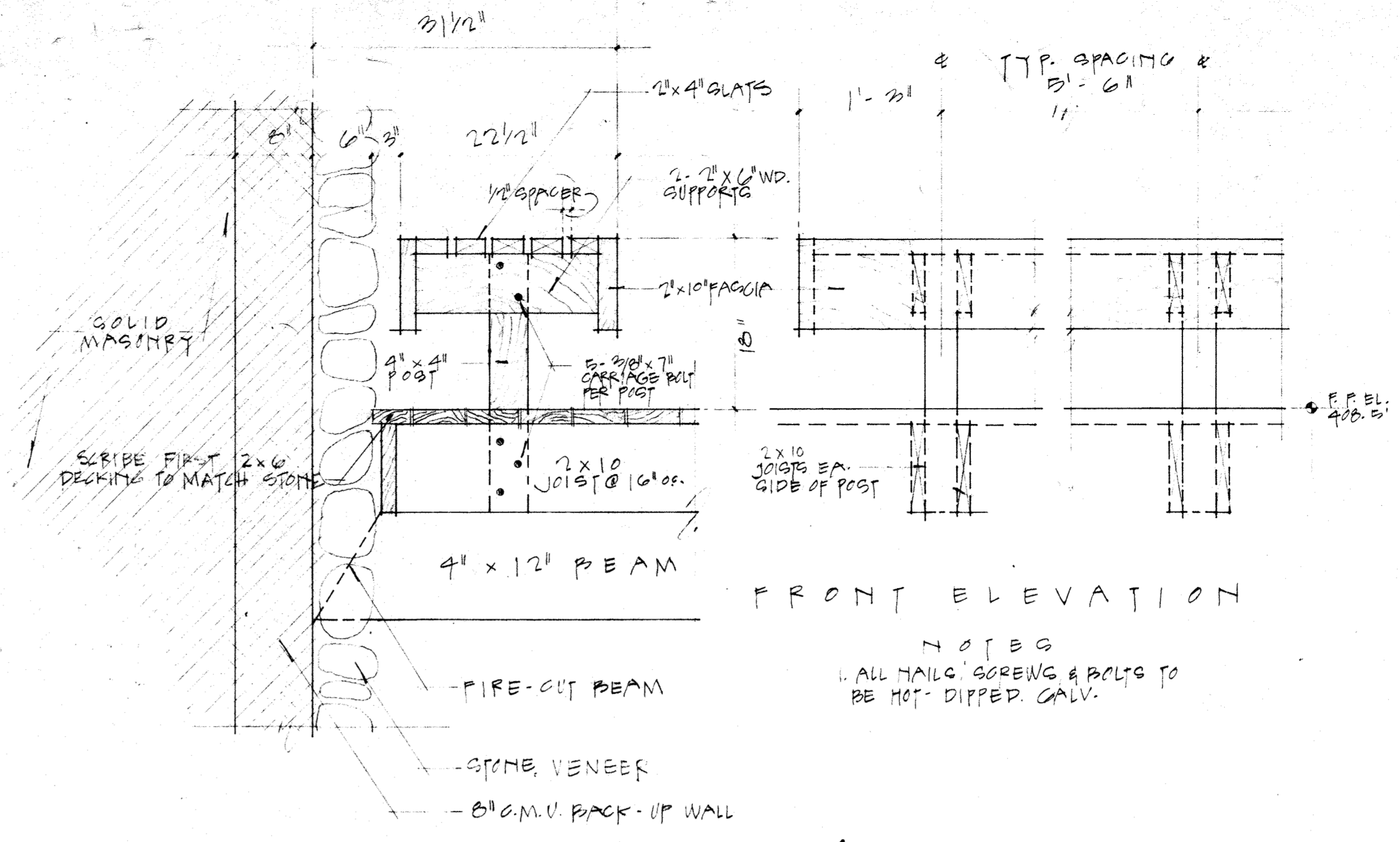
Centennial Park
ADA IMPROVEMENTS - BOAT HOUSE AREA
10,000 CLARKSVILLE PIKE, ELICOTT CITY, MARYLAND 21042 ZONING: R-20 ELEC. DIST.: 1
A) MAP 30 GRID 7 PARCEL 9 L.F.464/78 TAX ACCOUNT: 2-223082, 137.53 ACRES
B) MAP 30 GRID 2 PARCEL 10 L.F.885/76 TAX ACCOUNT: 2-218690, 104.36 ACRES
OWNER: HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS JULY 7, 2021 SHEET 82 OF 109



DETAIL: CONC. FTG. & PIER, TYPE A
3/4" = 1'-0"

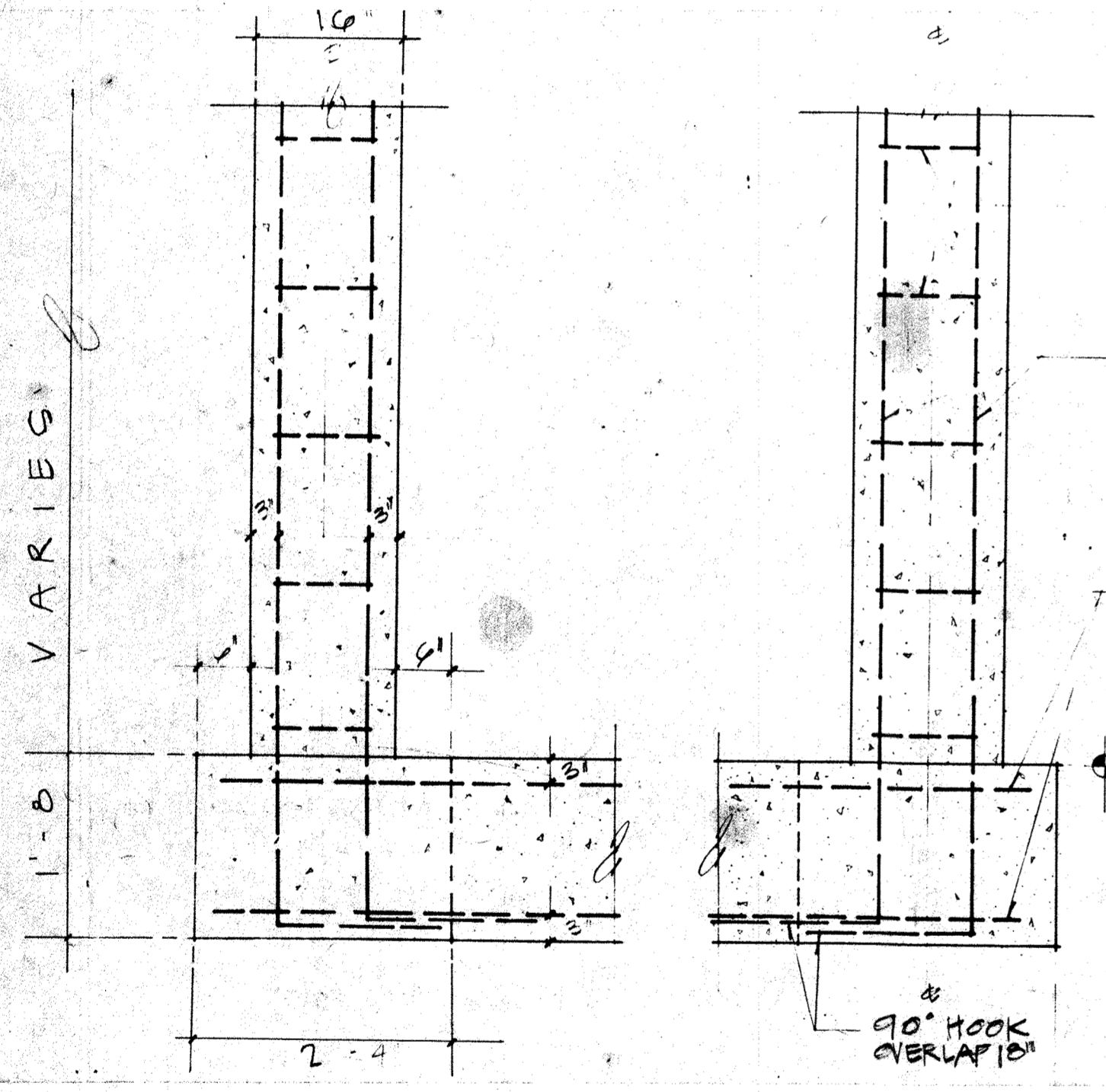


PIPE-RAILING WALL PLATE FASTNER
3/4" = 1'-0"



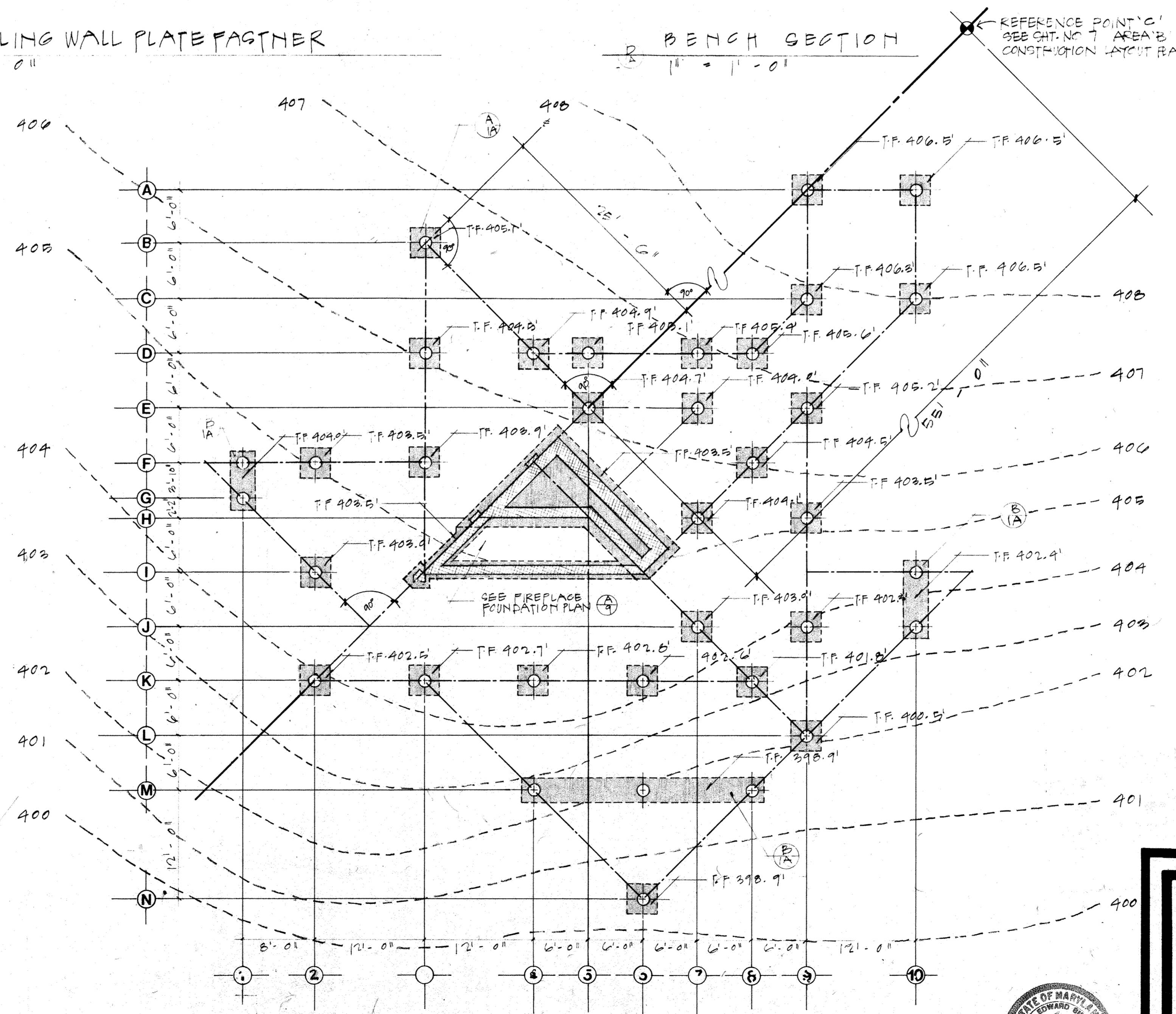
FRONT ELEVATION

NOTES
ALL NAILS, SCREWS & BOLTS TO BE HOT-DIPPED GALV.



DETAIL: CONC. FTG. & PIER, TYPE B
3/4" = 1'-0"

4 #6 VERT. BARS.
4 #6 BARS TOP & BOTTOM WRAP BARS AROUND CORNER MIN. 2'-6"
NOTE: CONTRACTOR SHALL INSURE ALL FOOTINGS ARE A MIN. 2'-6" BELOW EXISTING GRADE.



Foundation Plan
1/8" = 1'-0"

APPROVED: For Public Water, Drainage Systems and Roads	and Storm
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>Steve Nemy</i>	8-28-84
DIRECTOR	DATE
<i>William E. Reed</i>	8-28-84
CHIEF, BUREAU OF ENGINEERING	DATE
APPROVED: For Public Water and Private Sewerage Systems	
HOWARD COUNTY HEALTH DEPARTMENT	
<i>John Sykes</i>	1-25-84
COUNTY HEALTH OFFICER	DATE
APPROVED: Howard County Office of Planning and Zoning	
<i>Thomas Harris</i>	8-29-84
PLANNING DIRECTOR	DATE
<i>William E. Reed</i>	8-28-84
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION	DATE
Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City	
Elect. Dist. No. 2, Ho. Co. Tax Map No. 30	
Law Docket A-3652	
Liber 781 Folio 592, Parcel 345, 63.6 Ac.	
Liber 333 Folio 62, Parcel (Partial) 10, 42.9 Ac.	
Liber 507 Folio 437, Parcel 278, 61.45 Ac.	
Adjacent Property Owners:	
Legg, M. R.	875 471 1.01 126
Zaiser, W. J.	259 105 7.08 92
Saas, J. A.	274 299 2.36 93
Taury, J. P.	611 589 1.23 149
	383 604 1.16 94

LD LAND DESIGN / RESEARCH, INC.
5560 STERRETT PLACE, SUITE 300
COLUMBIA, MARYLAND

Foundation Plan/Misc. Const. Details
LARGE PICNIC SHELTER
CENTENNIAL PARK
PHASE FOUR - LAKESHORE SOUTH AREA

DATE	AS SHOWN	REVISIONS:	SHEET NO.
SCALE	1" = 1'-0"		1A
DRAWN	T. R. E.		OF 81
CHECKED	10-21-83		



APPROVED: For Public Water, and Storm Drainage Systems and Roads
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Director: *Henry F. Nunn* 8-28-84
 DATE: 8-28-84
 Chief, Bureau of Engineering: *William J. Nunn* 10-22-83
 DATE: 10-22-83

APPROVED: For Public Water and Private Sewerage Systems
 HOWARD COUNTY HEALTH DEPARTMENT
 County Health Officer: *John J. Williams* 1-25-84
 DATE: 1-25-84

APPROVED: Howard County Office of Planning and Zoning
 Planning Director: *Donald J. Davis* 8-29-84
 DATE: 8-29-84
 Chief, Division of Land Development and Zoning Administration

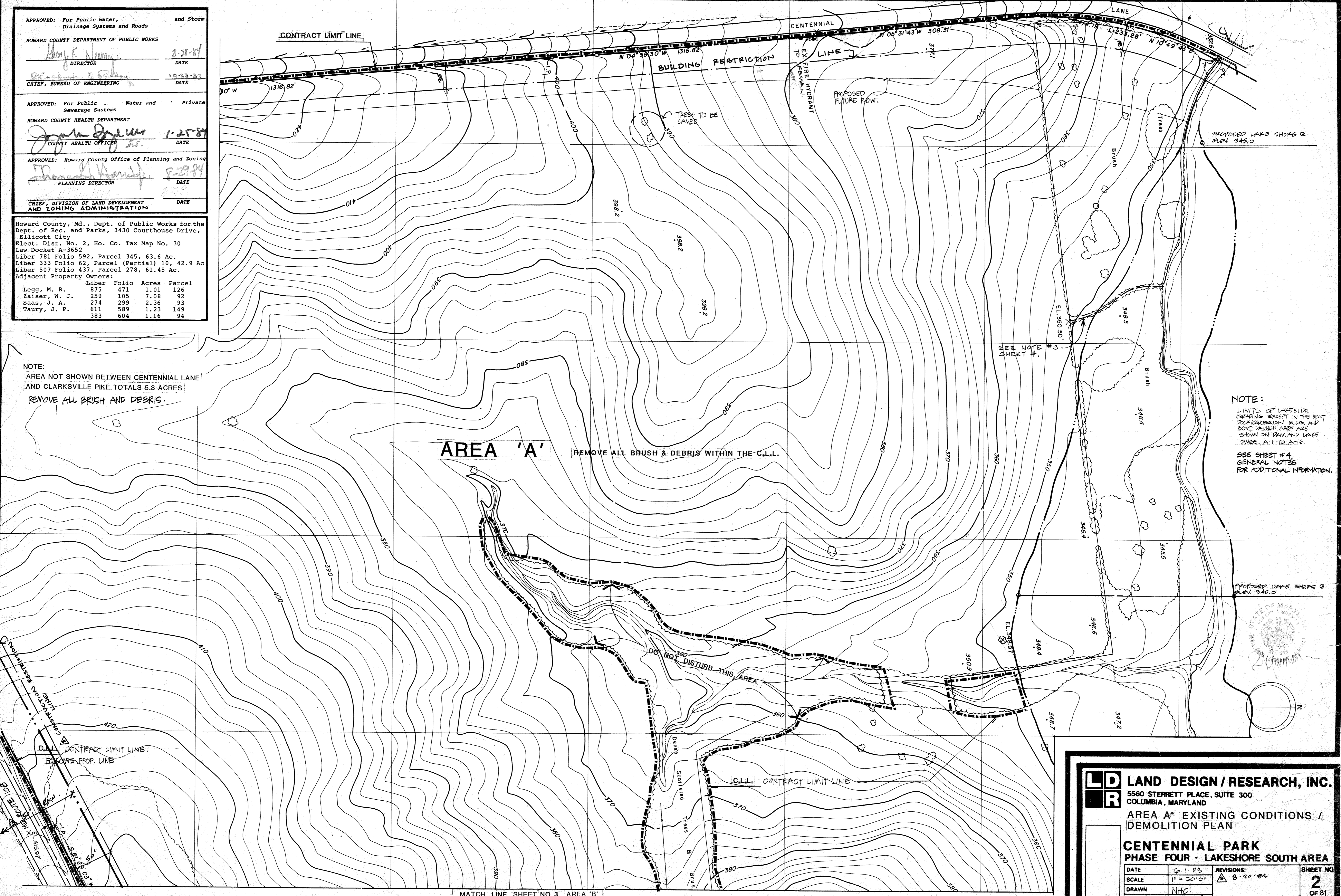
Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City
 Elect. Dist. No. 2, Ho. Co. Tax Map No. 30
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Zaiser, W. J.	259	105	7.08 92
Saas, J. A.	274	299	2.36 93
Taury, J. P.	611	589	1.23 149
	383	604	1.16 94

NOTE:
 AREA NOT SHOWN BETWEEN CENTENNIAL LANE AND CLARKSVILLE PIKE TOTALS 5.3 ACRES
 REMOVE ALL BRUSH AND DEBRIS.

AREA 'A' REMOVE ALL BRUSH & DEBRIS WITHIN THE C.L.L.

NOTE:
 LIMITS OF LAKESIDE CREATING EXCEPT IN THE BOAT DOCK CONCRESSION BLDG. AND BOAT LAUNCH AREA ARE SHOWN ON DAM AND LAKE DWGS. A-1 TO A-16.
 SEE SHEET #4 GENERAL NOTES FOR ADDITIONAL INFORMATION.



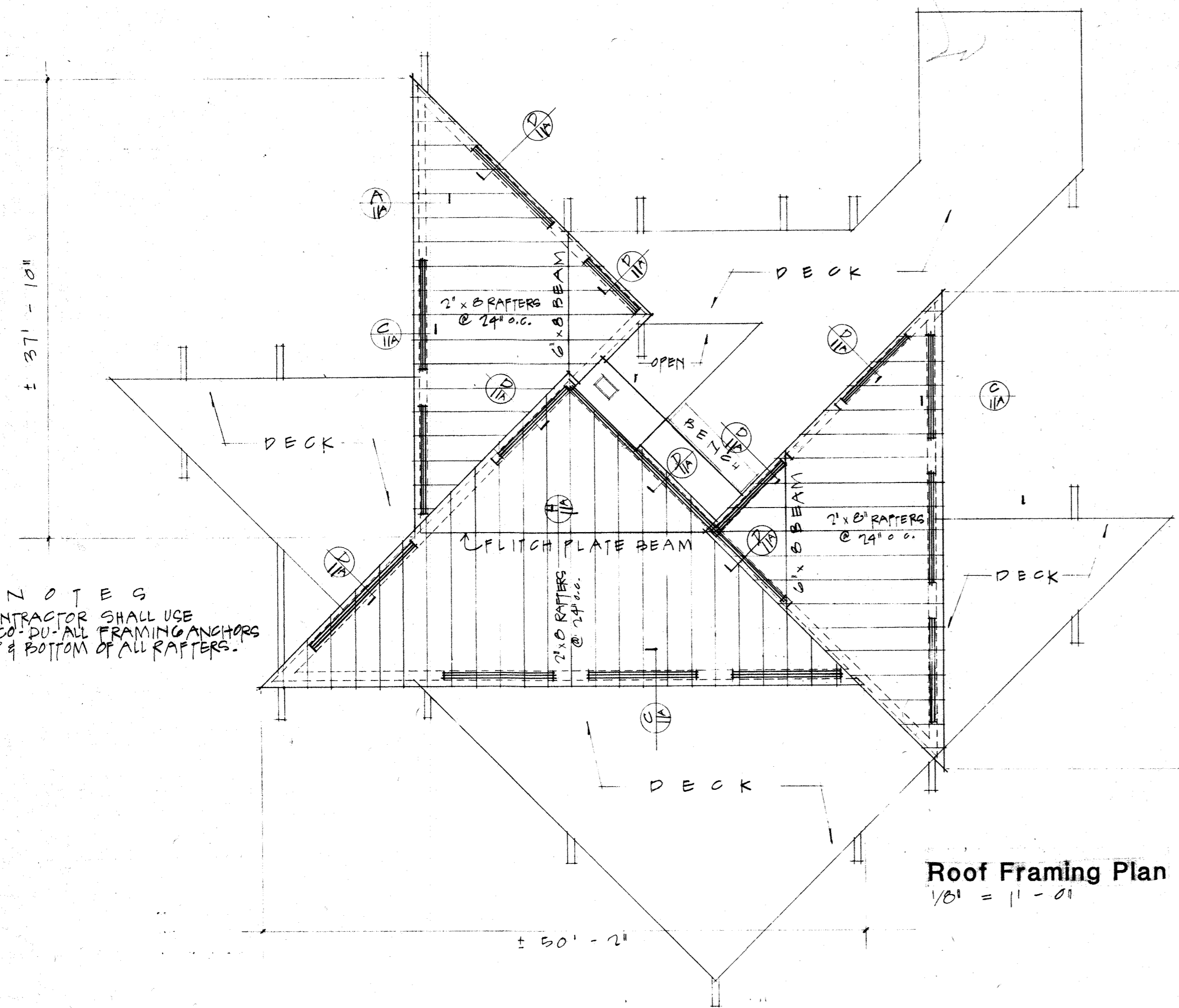
LD LAND DESIGN / RESEARCH, INC.
 5560 STERRETT PLACE, SUITE 300
 COLUMBIA, MARYLAND

AREA A* EXISTING CONDITIONS / DEMOLITION PLAN

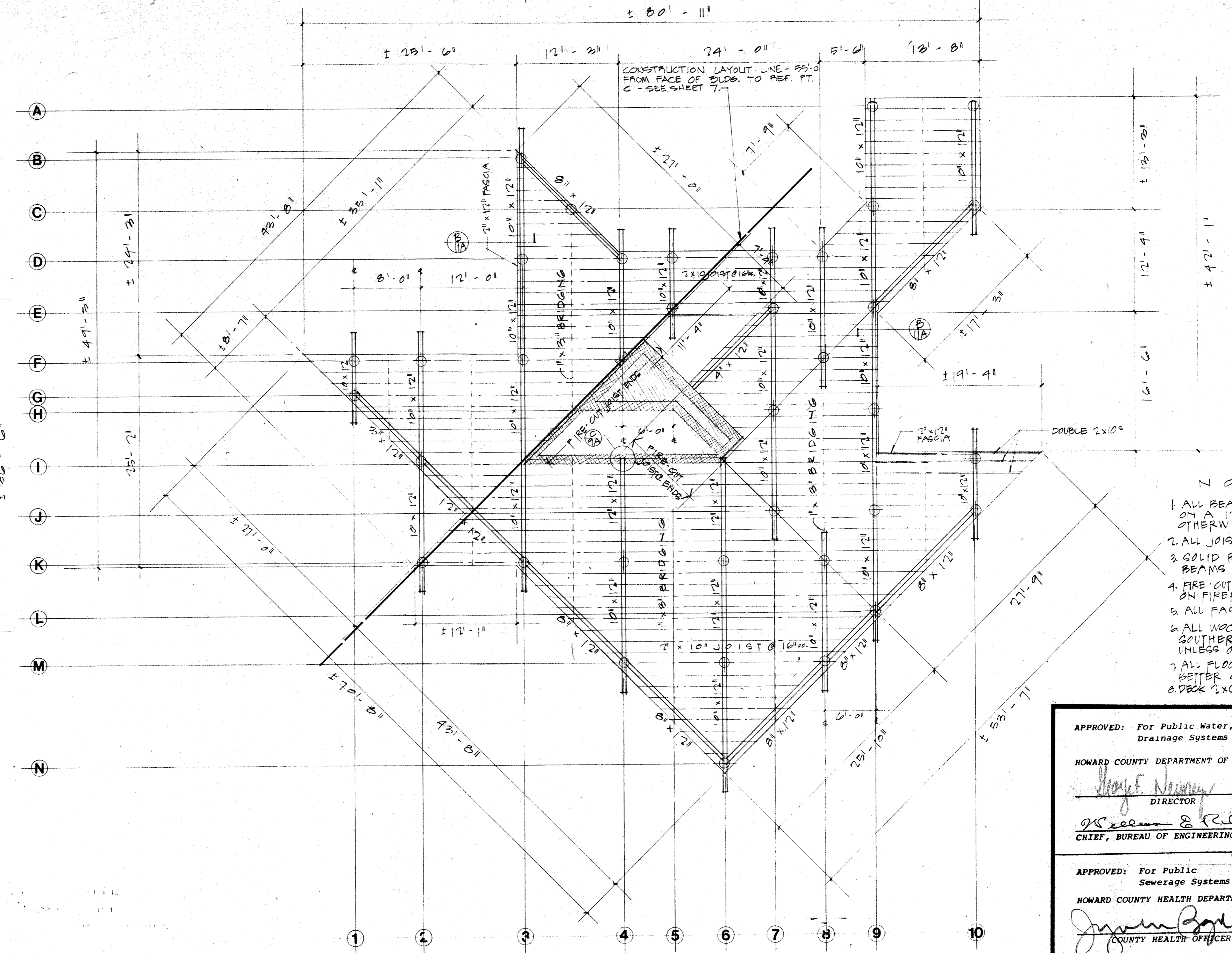
**CENTENNIAL PARK
 PHASE FOUR - LAKESHORE SOUTH AREA**

DATE	6-1-83	REVISIONS:		SHEET NO.
SCALE	1" = 50' 0"	8-20-84		2
DRAWN	NHC			OF 81
CHECKED	10-21-83			

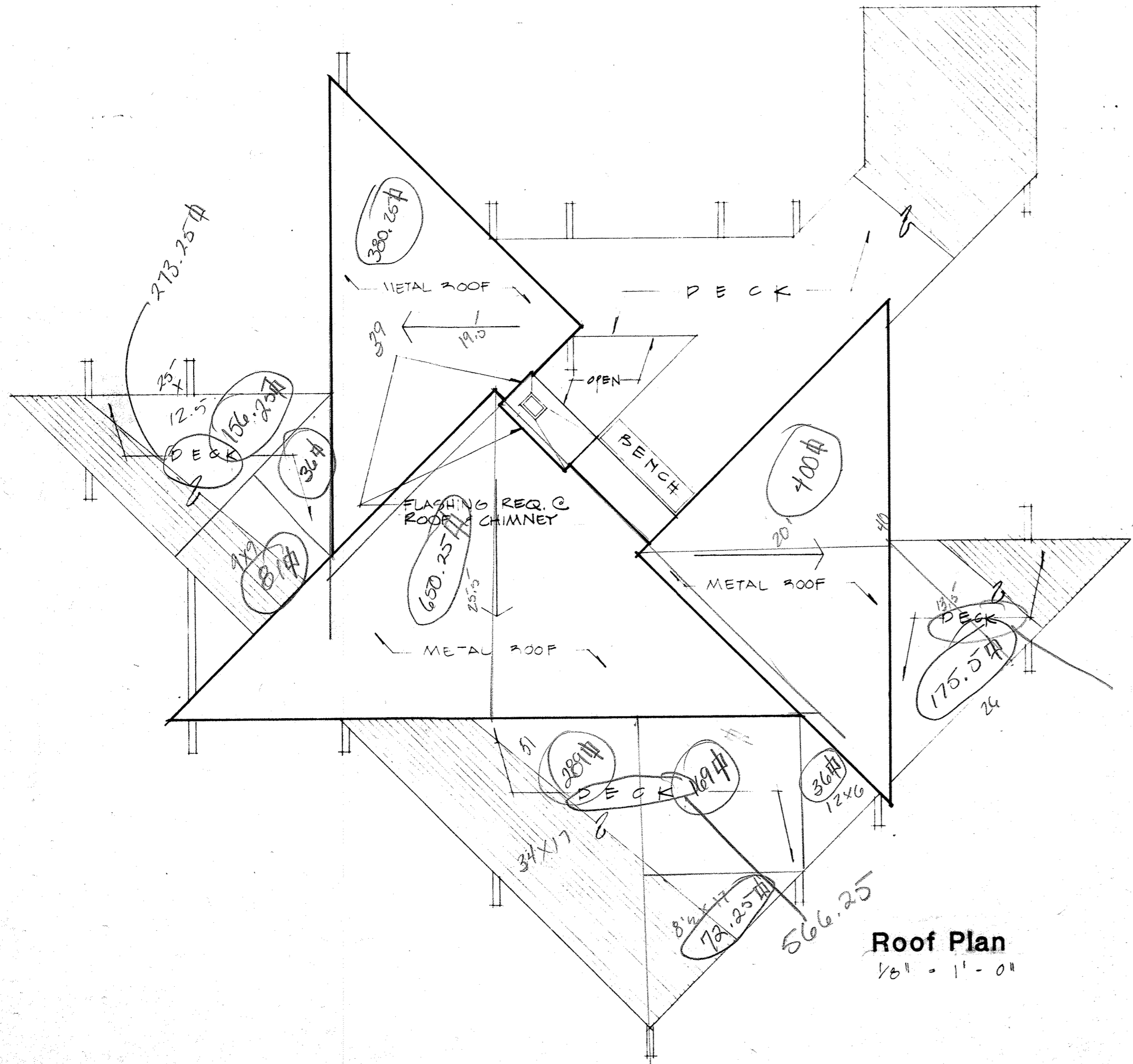
NOTES
 CONTRACTOR SHALL USE
 TEO-DU-ALL FRAMING ANCHORS
 TOP & BOTTOM OF ALL RAFTERS.



Roof Framing Plan
 1/8" = 1' - 0"



Deck Framing Plan
 1/8" = 1' - 0"



Roof Plan
 1/8" = 1' - 0"

156.25
 36.00
 81.00
 273.25

289.00
 169.00
 72.25
 36.00
 566.25

175.5#
 380.25
 680.25
 400.00

2445.5

CONSTRUCTION LAYOUT LINE - 89'-0"
 FROM FACE OF BLDG. TO REF. PT.
 C - SEE SHEET 7.

- NOTES:**
1. ALL BEAMS ARE LAID OUT ON A 12'-0" MODULE UNLESS OTHERWISE DIMENSIONED.
 2. ALL JOIST ARE 2" x 10" @ 16" o.c.
 3. SOLID BRIDGING OVER ALL BEAMS
 4. FIRE-CUT ALL JOIST WHICH BEAR ON FIREPLACE FOUNDATION.
 5. ALL FASCIA'S ARE 2" x 12"
 6. ALL WOOD BEAMS SHALL BE SOUTHERN PINE # 2 G.R. # 61100 UNLESS OTHERWISE NOTED.
 7. ALL FLOOR JOIST ARE # 2 OR BETTER SOUTHERN PINE # 61100 & DECK 2x6 # 1 SOUTHERN PINE PT.

APPROVED: For Public Water, Drainage Systems and Roads and Storm
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Director: *Wayne F. Neuman* 8-28-84
 Chief, Bureau of Engineering: *W. E. Ryan* 8-28-84

APPROVED: For Public Water and Private Sewerage Systems
 HOWARD COUNTY HEALTH DEPARTMENT
 County Health Officer: *James R. Jones* 1-27-84

APPROVED: Howard County Office of Planning and Zoning
 Planning Director: *James R. Jones* 8-29-84
 Chief, Division of Land Development and Zoning Administration: *James R. Jones* 8-29-84

APPROVED
 DIVISION OF LAND DEVELOPMENT &
 ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 2-17-84

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City, Md.
 Elect. Dist. No. 2, Ho. Co. Tax Map No. 30
 Law Docket A-3652
 Liber 781 Folio 592, Parcel 345, 63.6 Ac.
 Liber 333 Folio 62, Parcel (Partial), 10.42.9 Ac.
 Liber 507 Folio 437, Parcel 278, 61.45 Ac.
 Adjacent Property Owners:

Name	Liber	Folio	Acres	Parcel
Legg, M. R.	875	471	1.01	126
Zaiser, W. J.	259	105	7.08	92
Saas, J. A.	274	299	2.36	93
Taury, J. P.	611	589	1.23	149
	383	604	1.16	94



LD LAND DESIGN / RESEARCH, INC.
 5560 STERRETT PLACE, SUITE 300
 COLUMBIA, MARYLAND

LARGE PICNIC SHELTER
 Roof/Deck Framing & Roof Plans
CENTENNIAL PARK
 PHASE FOUR - LAKESHORE SOUTH AREA

DATE	REVISIONS:	SHEET NO.
SCALE	AS SHOWN	2A OF 81
DRAWN	J. R. E.	
CHECKED	10-21-83	

GENERAL NOTES:

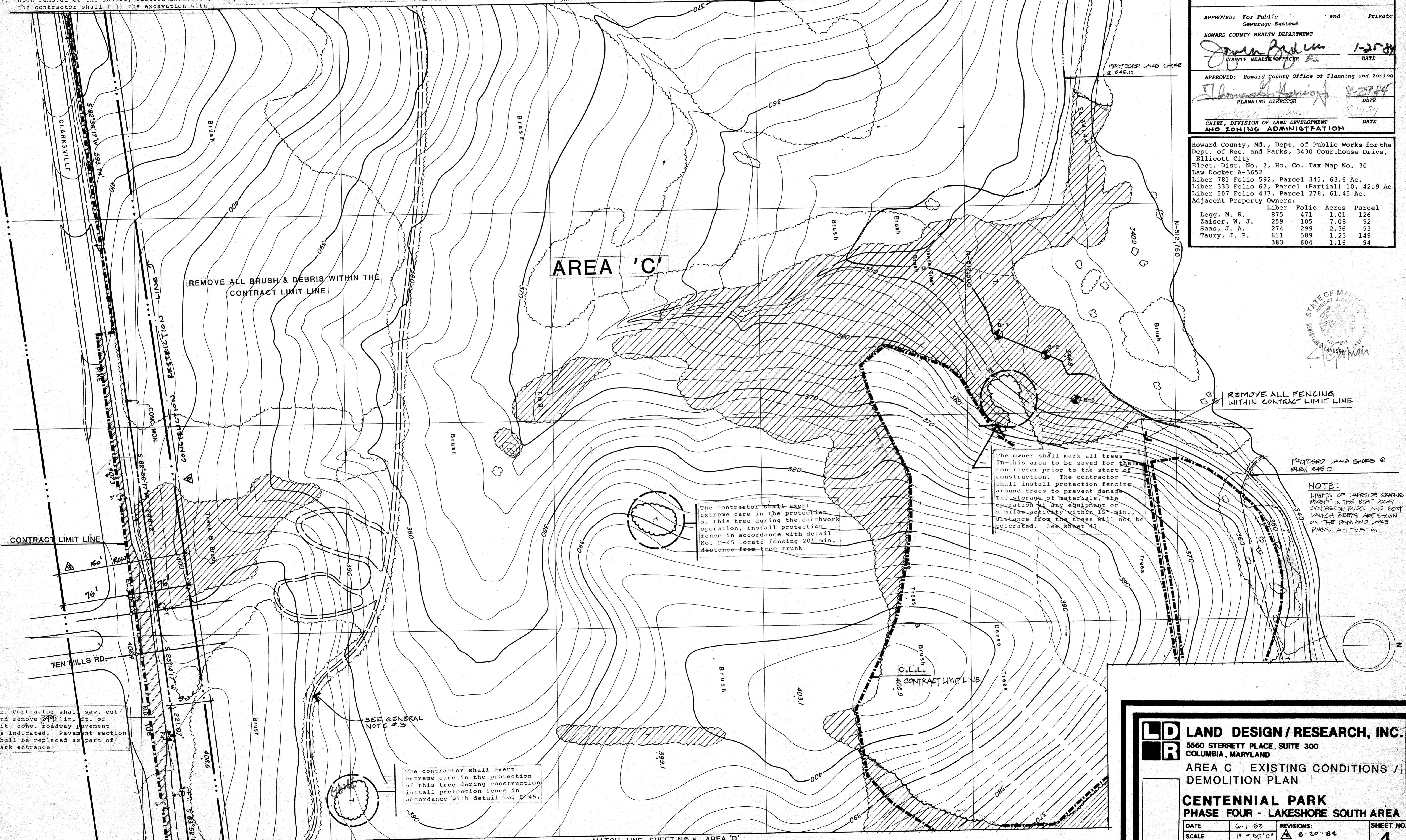
1. The contractor shall be responsible for the erection of all required construction sign, barriers, and lights, in accordance with the manual of uniform traffic control devices (M.U.T.C.D.) latest edition and the requirements of the Maryland Department of Transportation. The contractor shall also be responsible for the hazard identification, flagman, traffic cone application as needed or requested by the owner.
2. Upon removal of the roadway section indicated, the contractor shall fill the excavation with (con't) the required depth of CR-6 to meet the remaining bit. conc. pavement in line and grade. The contractor shall check the excavation daily and insure that the proper grade is maintained.
3. All existing trails, sections of roads, etc., (whether shown on these drawings or not), shall be graded to the contour of surrounding areas unless otherwise noted. Finish according to Plan; seeded, paved, etc.

4. Limits of Lakeside grading except in the boat dock/concession Bldg. and boat launch areas are shown on the Dam and Lake drawings, A-1 to A-16.
5. Refer to specifications, Section 2A for additional information.

MATCH LINE SHEET NO.3 AREA 'B'

AREA 'C'

MATCH LINE SHEET NO.5 AREA 'D'



APPROVED: For Public Water, Drainage Systems and Roads and Storm
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Clay F. Newman 8-28-84
 DIRECTOR DATE
William S. Paul 10-23-83
 CHIEF, BUREAU OF ENGINEERING DATE

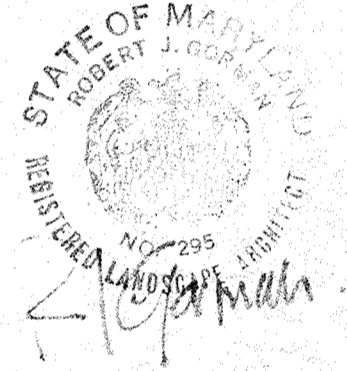
APPROVED: For Public and Private Sewerage Systems
 HOWARD COUNTY HEALTH DEPARTMENT
John P. Williams 1-25-84
 COUNTY HEALTH OFFICER DATE

APPROVED: Howard County Office of Planning and Zoning
Thomas S. Harvick 8-29-84
 PLANNING DIRECTOR DATE
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City, Md. 21043

Elect. Dist. No. 2, Ho. Co. Tax Map No. 30
 Law Docket A-3652
 Liber 781 Folio 592, Parcel 345, 63.6 Ac.
 Liber 333 Folio 62, Parcel (Partial) 10, 42.9 Ac.
 Liber 507 Folio 437, Parcel 278, 61.45 Ac.
 Adjacent Property Owners:

Liber	Folio	Acres	Parcel
Legg, M. R.	875	471	1.01
Zaiser, W. J.	259	105	7.08
Saas, J. A.	274	299	2.36
Taury, J. P.	611	589	1.23
	383	604	1.16
			94



The owner shall mark all trees in this area to be saved for the contractor prior to the start of construction. The contractor shall install protection fencing around trees to prevent damage. The storage of materials, the operation of any equipment or similar activity within 15' min. distance from the trees will not be tolerated. See Sheet 47.

NOTE:
 LIMITS OF LAKESIDE GRADING EXCEPT IN THE BOAT DOCK, CONCESSION BLDG. AND BOAT LAUNCH AREAS ARE SHOWN ON THE DAM AND LAKE PAGES A-1 TO A-16.

The Contractor shall saw, cut and remove 6" lin. ft. of bit. conc. roadway pavement as indicated. Pavement section shall be replaced as part of park entrance.

SEE GENERAL NOTE #3

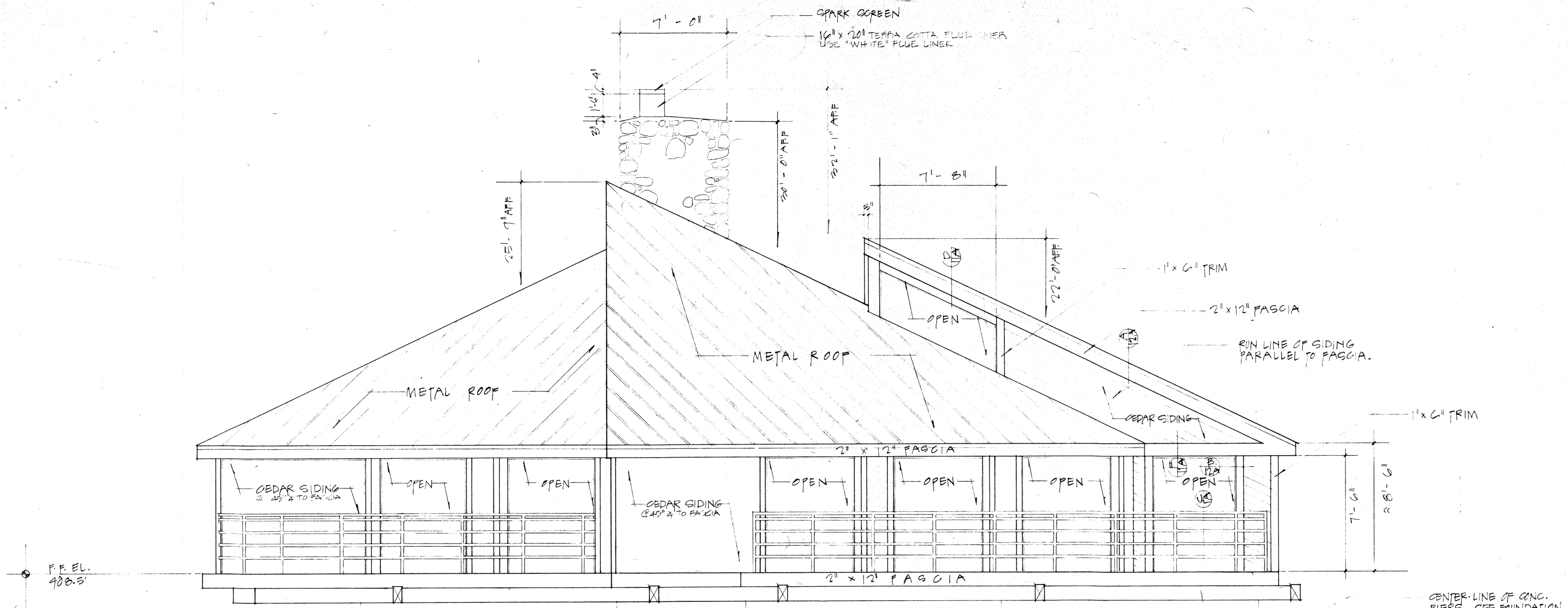
The contractor shall exert extreme care in the protection of this tree during construction install protection fence in accordance with detail no. P-45.

LD R LAND DESIGN / RESEARCH, INC.
 5560 STERRETT PLACE, SUITE 300
 COLUMBIA, MARYLAND

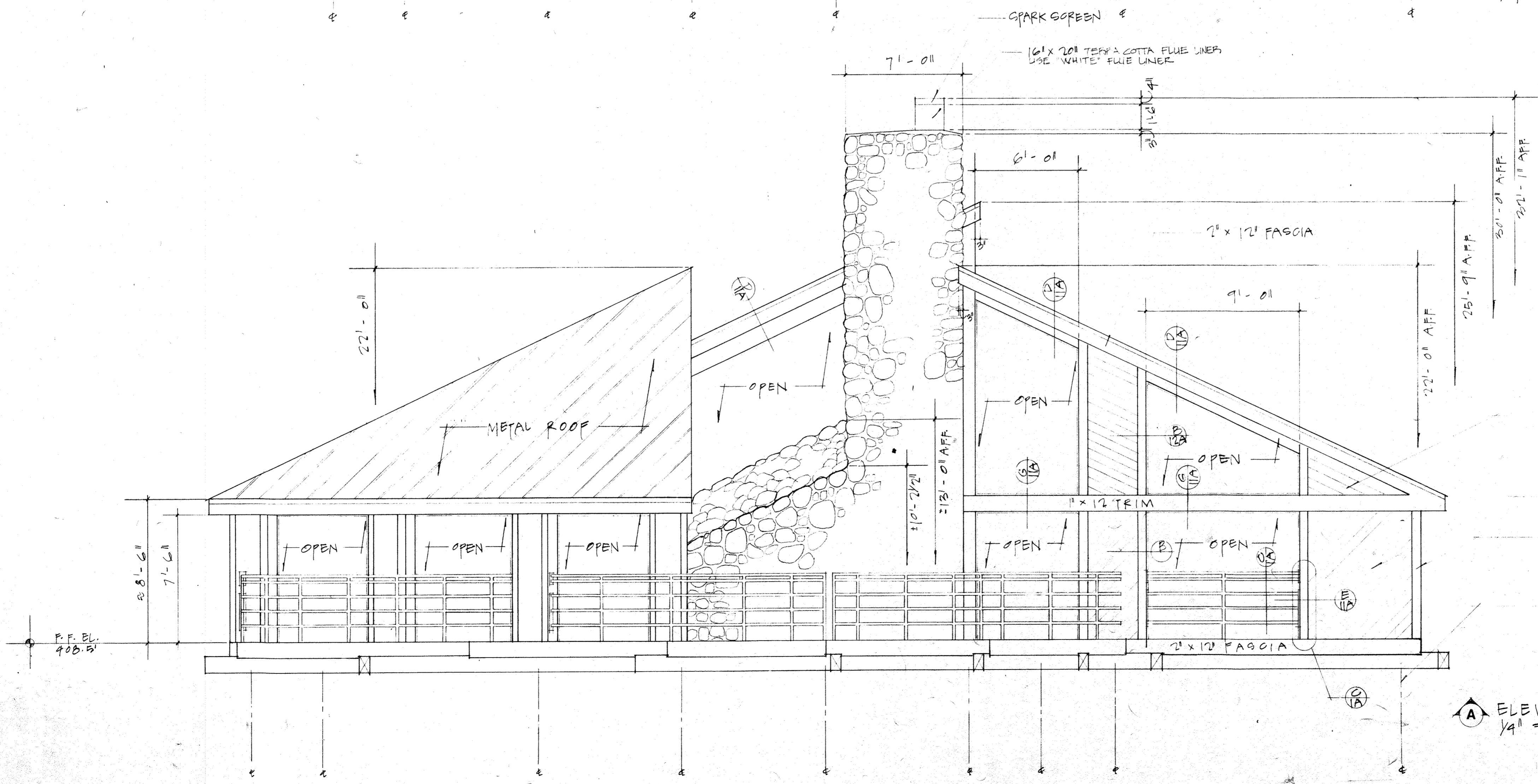
AREA C EXISTING CONDITIONS / DEMOLITION PLAN

**CENTENNIAL PARK
 PHASE FOUR - LAKESHORE SOUTH AREA**

DATE	6.1.83	REVISIONS:	△ 8.20.84	SHEET NO.	4
SCALE	1" = 80' 0"			OF 81	
DRAWN	NHC				
CHECKED	10/21/83				



D ELEVATION
1/4" = 1'-0"



A ELEVATION
1/4" = 1'-0"

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 2-17-84



APPROVED: For Public Water, Drainage Systems and Storm	and Storm
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>W. J. Wemy</i> DIRECTOR	8-28-84 DATE
<i>W. J. Wemy</i> CHIEF, BUREAU OF ENGINEERING	8-28-84 DATE
APPROVED: For Public Sewerage Systems	Water and Private
HOWARD COUNTY HEALTH DEPARTMENT	
<i>John P. ...</i> COUNTY HEALTH OFFICER	1-25-84 DATE
APPROVED: Howard County Office of Planning and Zoning	
<i>Thomas ...</i> PLANNING DIRECTOR	8-29-84 DATE
<i>...</i> CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION	8-29-84 DATE

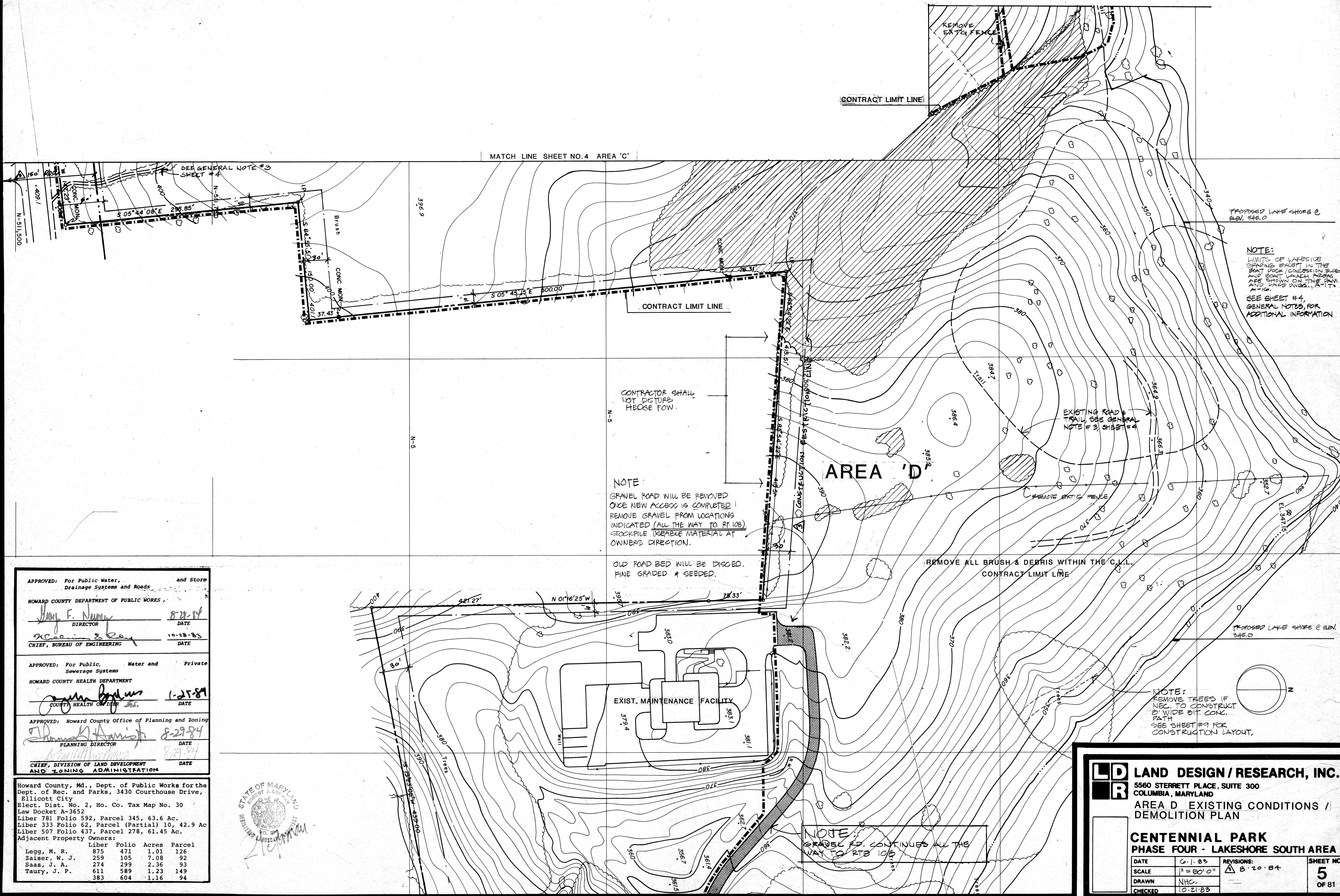
Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City, Md. Elect. Dist. No. 2, Ho. Co. Tax Map No. 30 Law Docket A-3652
 Liber 781 Folio 592, Parcel 345, 63.6 Ac.
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Owner	Liber	Folio	Acres	Parcel
Legg, M. R.	875	471	1.01	126
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	383	604	1.16	94

LD R LAND DESIGN / RESEARCH, INC.
 5560 STERRETT PLACE, SUITE 300
 COLUMBIA, MARYLAND

LARGE PICNIC SHELTER
ELEVATIONS
CENTENNIAL PARK
PHASE FOUR - LAKESHORE SOUTH AREA

DATE	REVISIONS:	SHEET NO.
SCALE 1/4" = 1'-0"		4A
DRAWN T. R. E.		OF 81
CHECKED 10-21-83		



NOTE:
 LIMITS OF LAKESIDE GRADING EXCEPT IN THE BOAT DOCK / CONCESSION BUILDING AND BOAT LANDING AREAS ARE SHOWN ON THE PLAN AND LAKE DINGS, A, B, C & D.
 SEE SHEET #4, GENERAL NOTES, FOR ADDITIONAL INFORMATION.

CONTRACTOR SHALL NOT DISTURB HEDGE ROW.

NOTE:
 GRAVEL ROAD WILL BE REMOVED ONCE NEW ACCESS IS COMPLETED. REMOVE GRAVEL FROM LOCATIONS INDICATED (ALL THE WAY TO RT 108). STOCKPILE USABLE MATERIAL AT OWNERS DIRECTION.

OLD ROAD BED WILL BE DISCED, FINE GRADED & SEEDED.

REMOVE ALL BRUSH & DEBRIS WITHIN THE C.L.L. CONTRACT LIMIT LINE

NOTE:
 REMOVE TREES IF NEEDED TO CONSTRUCT 8' WIDE BIT. CONC. PATH. SEE SHEET #9 FOR CONSTRUCTION LAYOUT.

NOTE:
 GRAVEL ED. CONTINUES ALL THE WAY TO RT 108

APPROVED: For Public Water, and Storm Drainage Systems and Roads
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Henry F. Nummy 8-21-84
 DIRECTOR DATE
W. C. ... 10-28-83
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: For Public, Water and Private Sewerage Systems
 HOWARD COUNTY HEALTH DEPARTMENT
... 1-25-84
 COUNTY HEALTH OFFICER DATE

APPROVED: Howard County Office of Planning and Zoning
... 8-29-84
 PLANNING DIRECTOR DATE
... 8-29-84
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City
 Elect. Dist. No. 2, Ho. Co. Tax Map No. 30
 Law Docket A-3652
 Liber 781 Folio 592, Parcel 345, 63.6 Ac.
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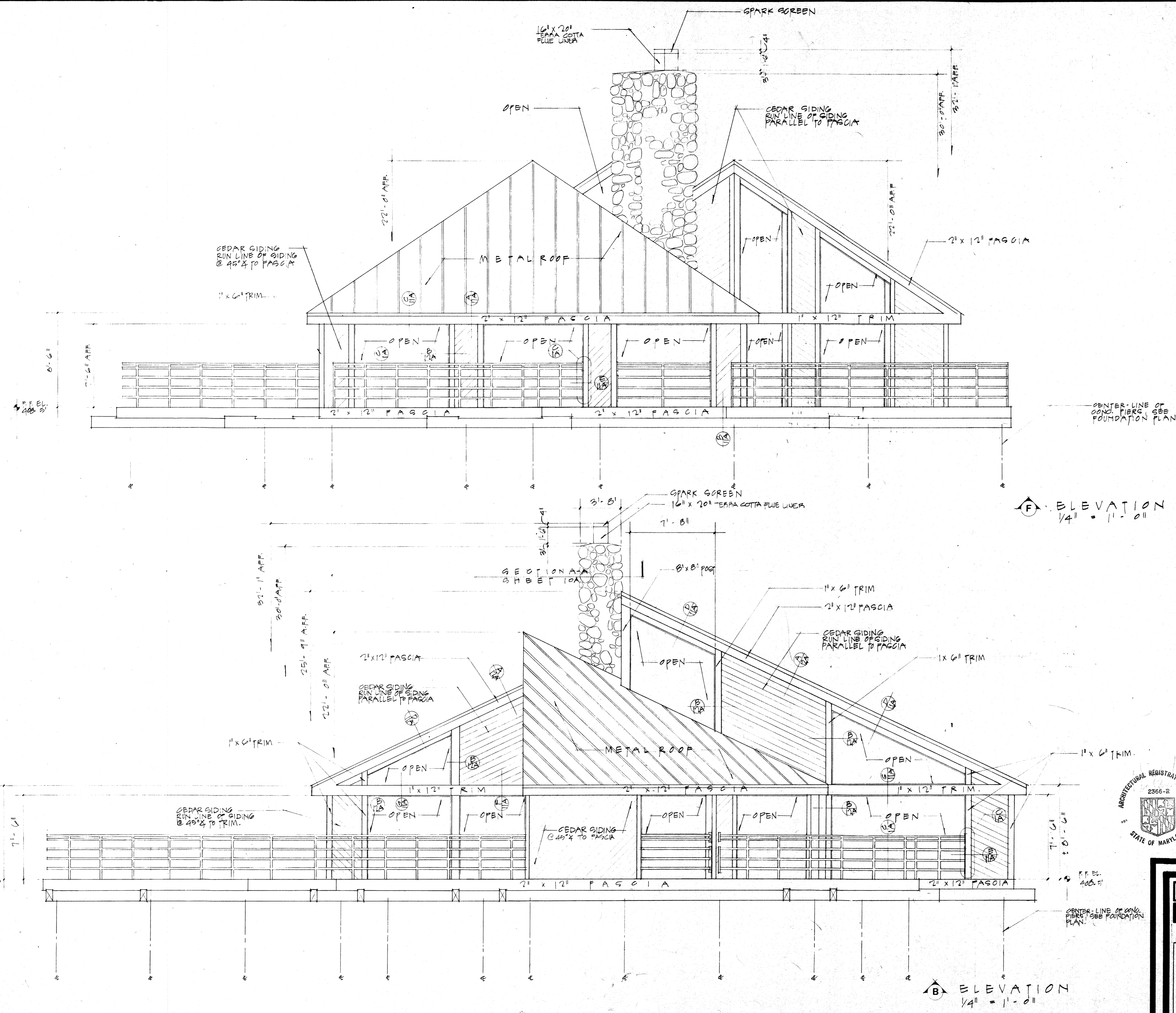


LD LAND DESIGN / RESEARCH, INC.
 5560 STERRETT PLACE, SUITE 300
 COLUMBIA, MARYLAND

AREA D EXISTING CONDITIONS / DEMOLITION PLAN

**CENTENNIAL PARK
 PHASE FOUR - LAKESHORE SOUTH AREA**

DATE	6.1.83	REVISIONS:	Δ 8.20.84	SHEET NO.	5
SCALE	1" = 80' 0"			OF 81	
DRAWN	NHC				
CHECKED	10.21.83				



APPROVED: For Public Water, Drainage Systems and Roads and Storm
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
W. F. Nummy 8-28-84
 DIRECTOR DATE
Robert P. Ray 8-28-84
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: For Public Water and Private Sewerage Systems
 HOWARD COUNTY HEALTH DEPARTMENT
James B. ... 1-25-84
 COUNTY HEALTH OFFICER DATE

APPROVED: Howard County Office of Planning and Zoning
Thomas A. ... 8-29-84
 PLANNING DIRECTOR DATE
John ... 8-29-84
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City, Md.
 Elect. Dist. No. 2, Ho. Co. Tax Map No. 30
 Law Docket A-3652
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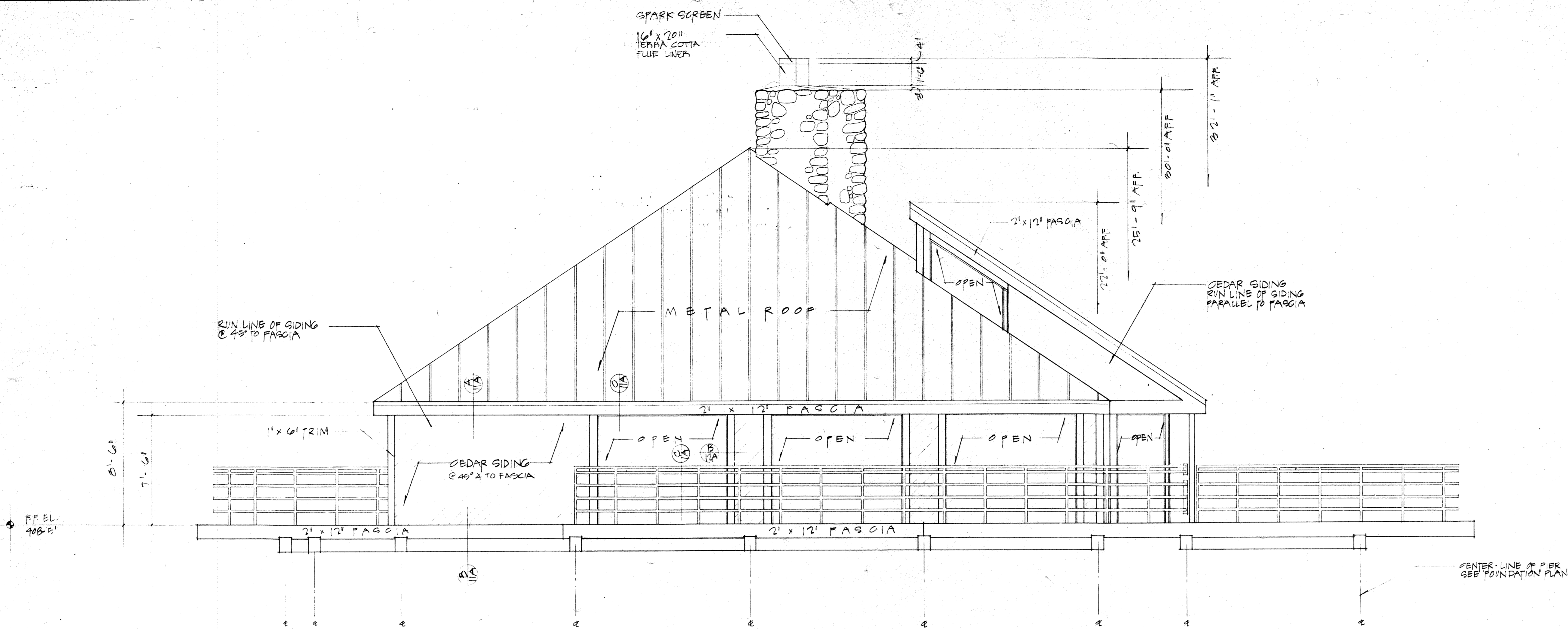
ARCHITECTURAL REGISTRATION BOARD
 2366-R
 STATE OF MARYLAND

LD LAND DESIGN / RESEARCH, INC.
 5560 STERRETT PLACE, SUITE 300
 COLUMBIA, MARYLAND

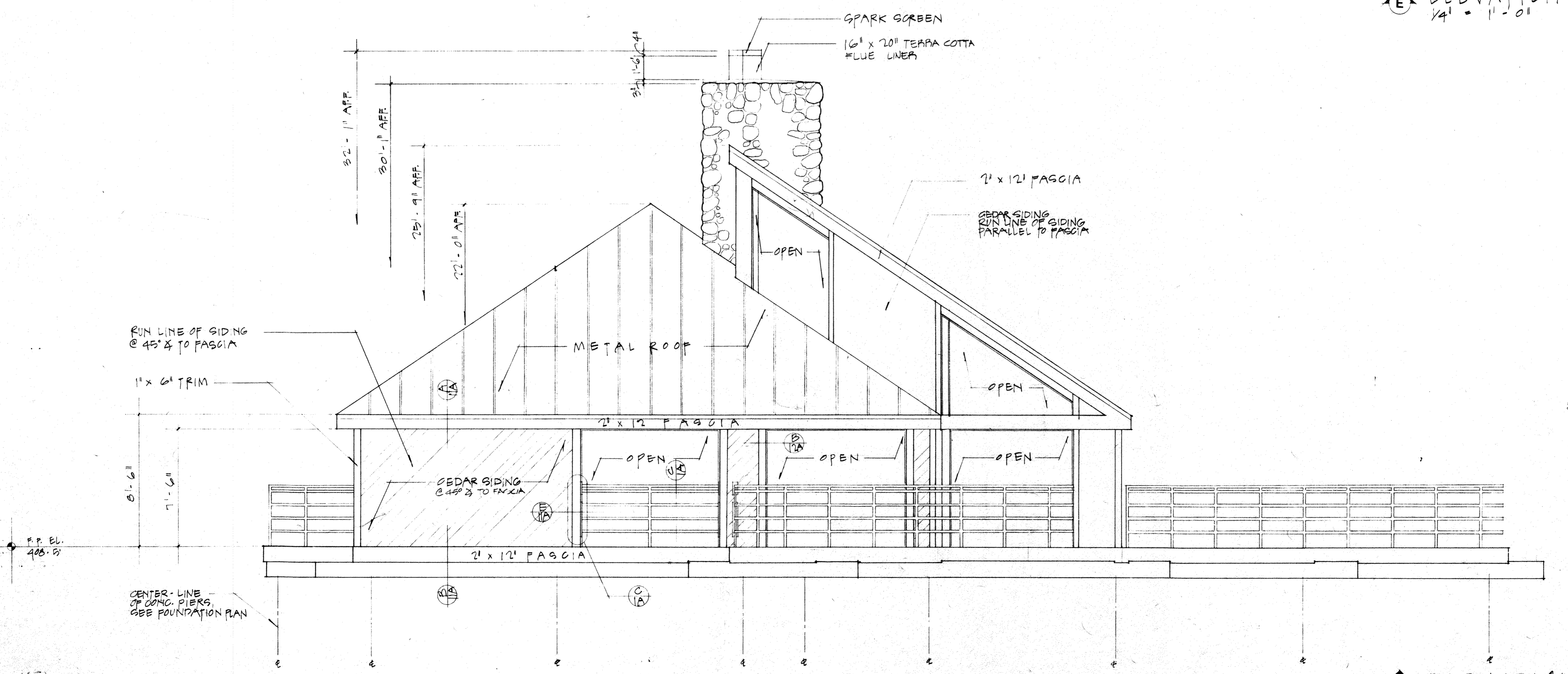
LARGE PICNIC SHELTER
ELEVATIONS
CENTENNIAL PARK
PHASE FOUR - LAKESHORE SOUTH AREA

DATE	REVISIONS	SHEET NO.
		5A
		OF 81

DRAWN: T. R. E.
 CHECKED: 10-21-85



E ELEVATION
1/4" = 1'-0"



C ELEVATION
1/4" = 1'-0"

APPROVED: For Public Water, and Storm
Drainage Systems and Roads

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

W. F. ... 8-28-84
DIRECTOR DATE

W. ... 8-28-84
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: For Public Water and Private
Sewerage Systems

HOWARD COUNTY HEALTH DEPARTMENT

John ... 1-25-84
COUNTY HEALTH OFFICER DATE

APPROVED: Howard County Office of Planning and Zoning

Thomas ... 8-29-84
PLANNING DIRECTOR DATE

Joseph ... 8-29-84
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City, Elect. Dist. No. 2, Ho. Co. Tax Map No. 30e, Law Docket A-3652

Liber 781 Folio 592, Parcel 345, 63.6 Ac.
Liber 333 Folio 62, Parcel (Partial) 10, 42.9 Ac.
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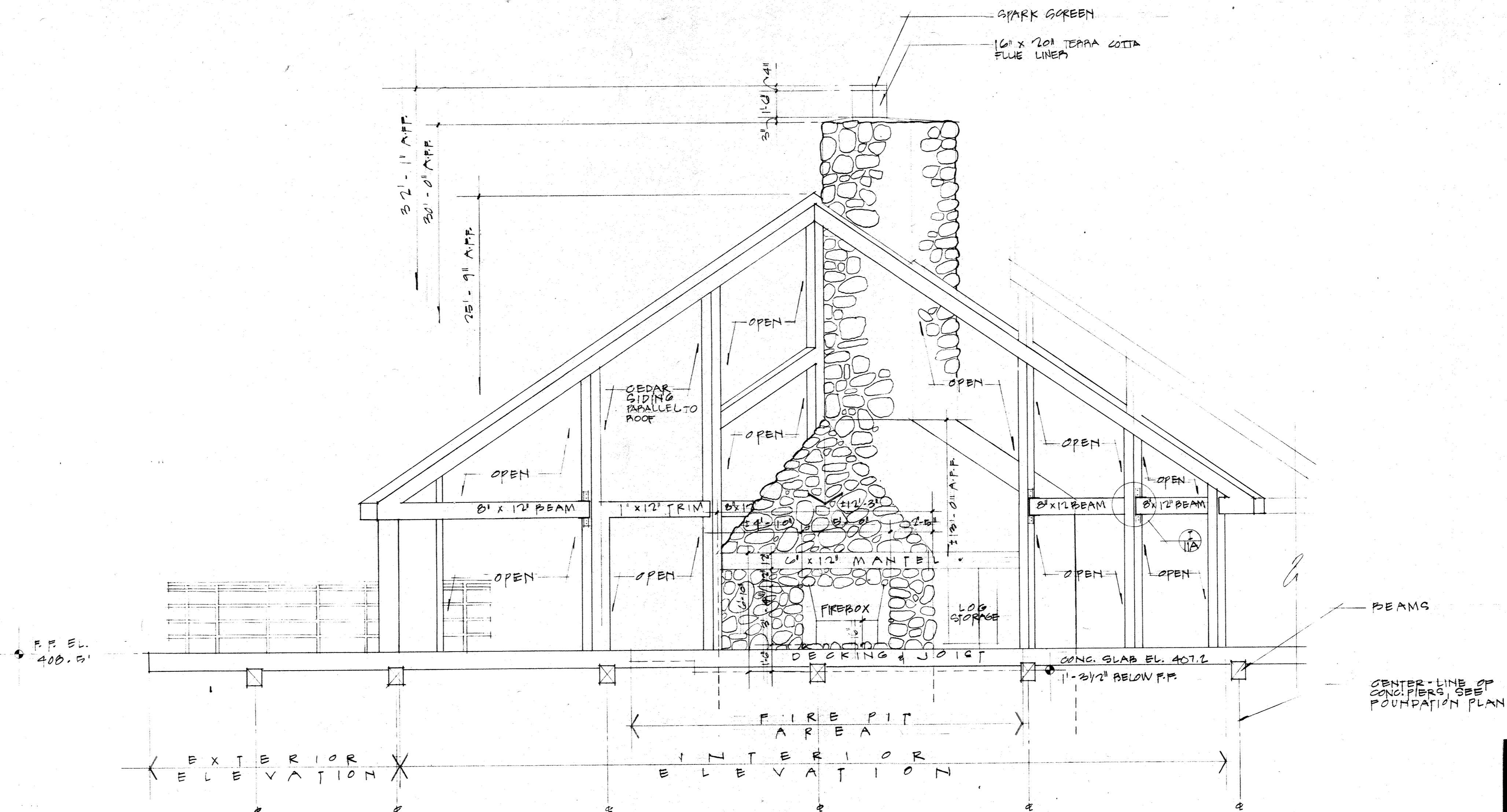
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LD LAND DESIGN / RESEARCH, INC.
5560 STERRETT PLACE, SUITE 300
COLUMBIA, MARYLAND

LARGE PICNIC SHELTER
ELEVATIONS
CENTENNIAL PARK
PHASE FOUR - LAKESHORE SOUTH AREA

DATE	REVISIONS:	SHEET NO.
SCALE	1/4" = 1'-0"	6A OF 81
DRAWN	T. R. E.	
CHECKED	10-21-83	



① FIREPLACE FRONT ELEVATION
1/4" = 1' - 0"

APPROVED: For Public Water and Storm
Drainage Systems and Roads
and Storm

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

[Signature] 8-28-84
DIRECTOR DATE

[Signature] 8-28-84
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: For Public Water and Private
Sewerage Systems

HOWARD COUNTY HEALTH DEPARTMENT

[Signature] 1-25-84
COUNTY HEALTH OFFICER DATE

APPROVED: Howard County Office of Planning and Zoning

[Signature] 8-28-84
PLANNING DIRECTOR DATE

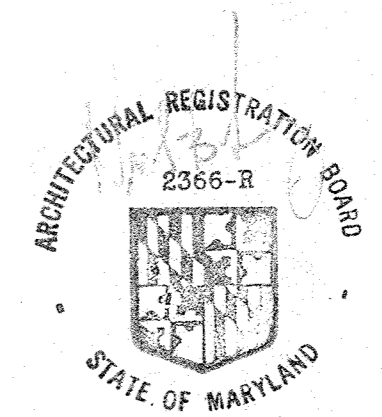
[Signature] 8-28-84
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City, Elect. Dist. No. 2, Ho. Co. Tax Map No. 30, Law Docket A-3652

Liber 781 Folio 592, Parcel 345, 63.6 Ac.
Liber 333 Folio 62, Parcel (Partial) 10, 42.9 Ac.
Liber 507 Folio 437, Parcel 278, 61.45 Ac.

Adjacent Property Owners:

Name	Liber	Folio	Acres	Parcel
Legg, M. R.	875	471	1.01	126
Zaiser, W. J.	259	105	7.08	92
Saas, J. A.	274	299	2.36	93
Taury, J. P.	611	589	1.23	149
	383	604	1.16	94

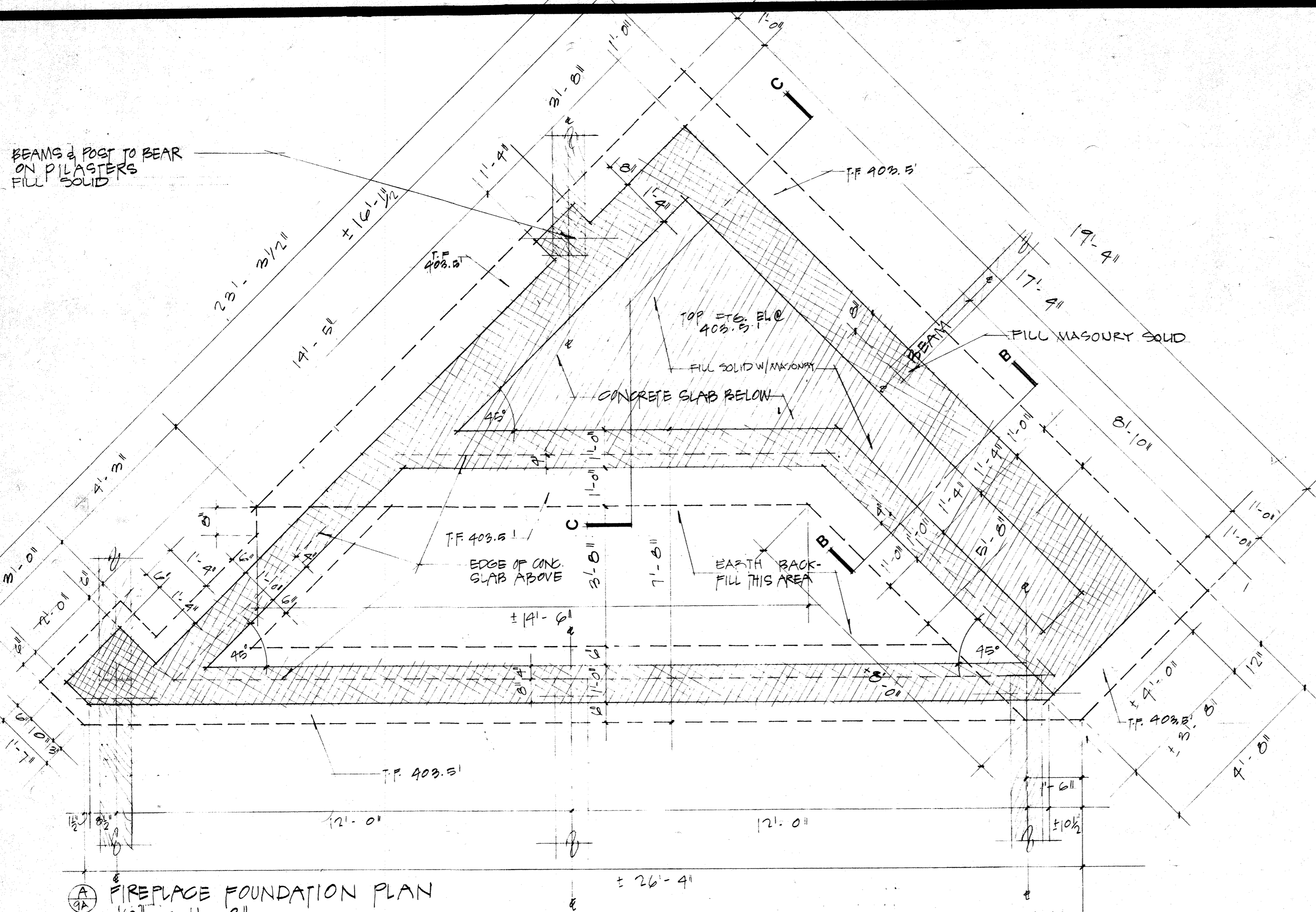


LD LAND DESIGN / RESEARCH, INC.
5560 STERRETT PLACE, SUITE 300
COLUMBIA, MARYLAND

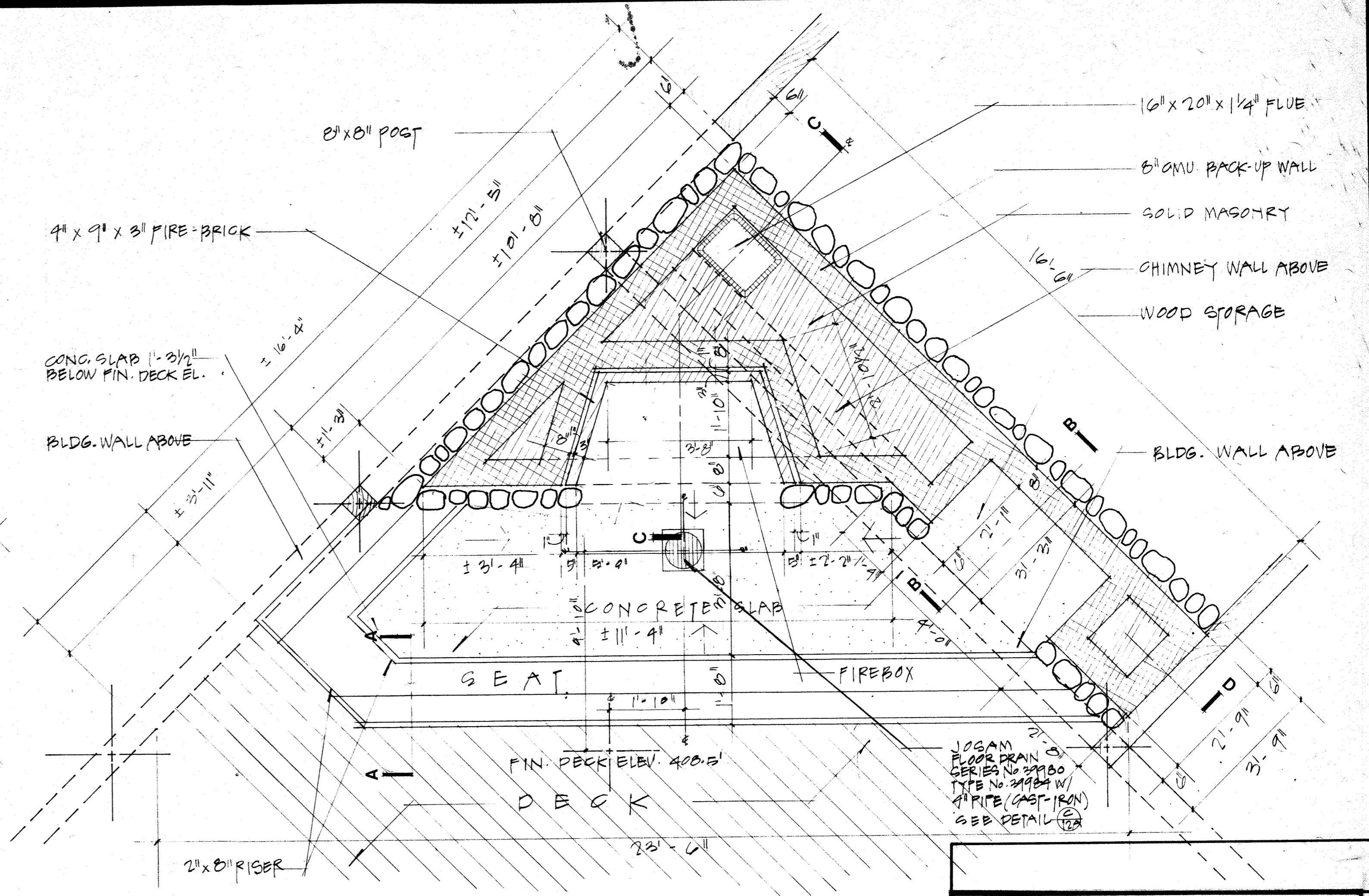
**LARGE PICNIC SHELTER
ELEVATIONS
CENTENNIAL PARK
PHASE FOUR - LAKESHORE SOUTH AREA**

DATE	REVISIONS:	SHEET NO.
SCALE	AS SHOWN	8A
DRAWN	T. R. E.	OF 81
CHECKED	10-21-83	

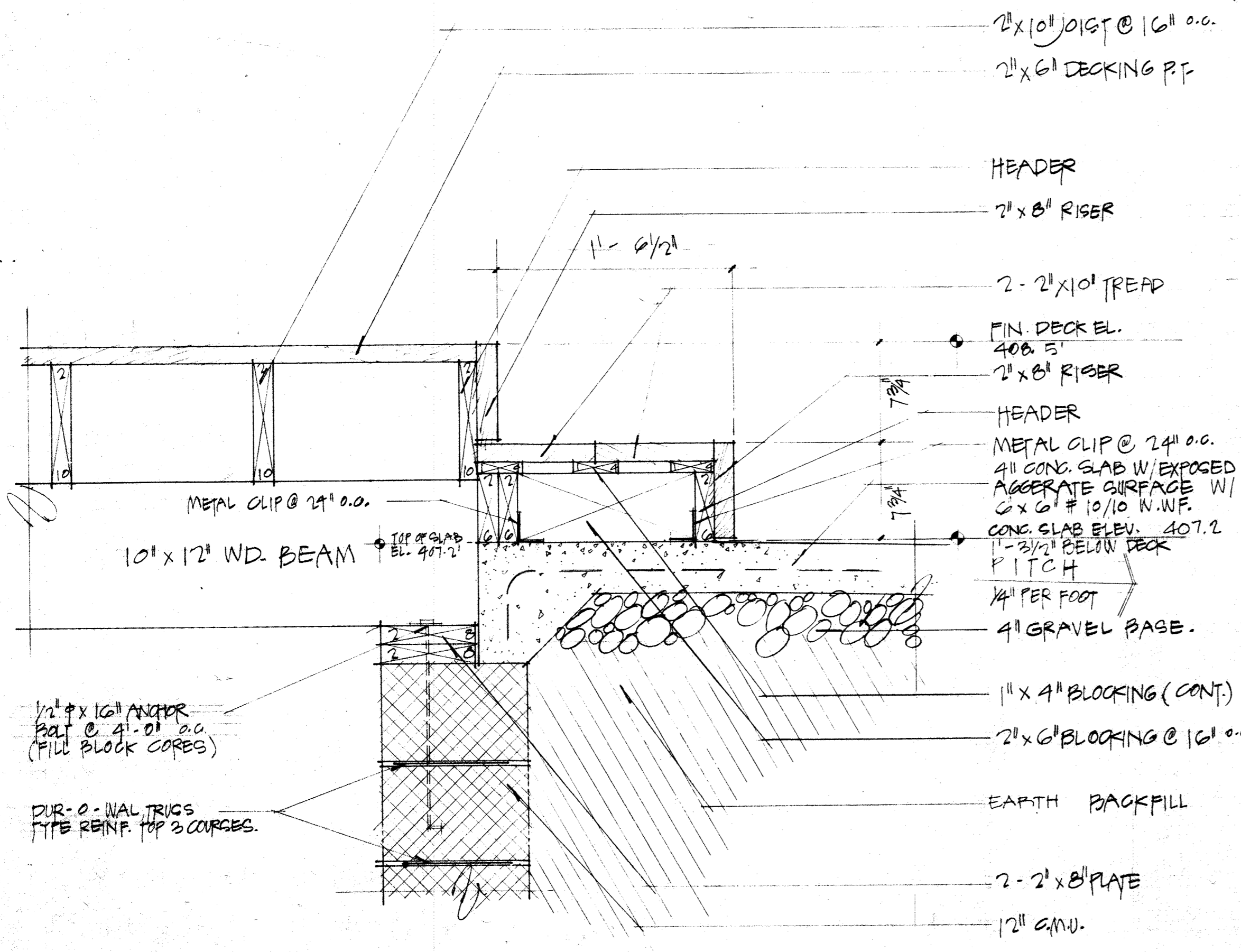
BEAMS & POST TO BEAR ON PILASTERS FILL SOLID



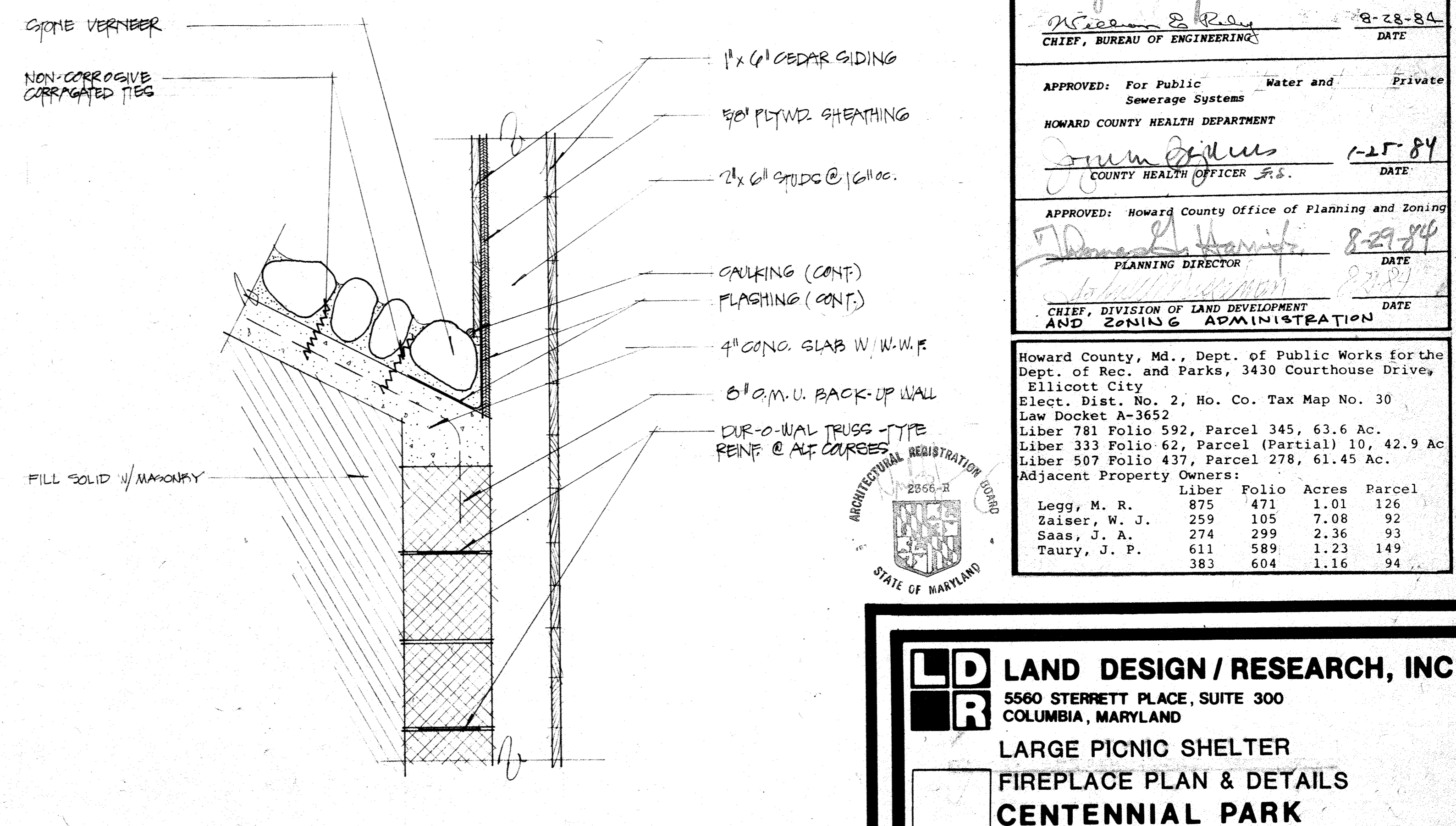
Ⓐ FIREPLACE FOUNDATION PLAN
1/2" = 1'-0"



Ⓑ FIREPLACE PLAN
1/2" = 1'-0"



Ⓒ DETAIL FIREPLACE PIT SEATING AREA, PARTIAL SECTION A-A
1/2" = 1'-0"



Ⓓ DETAIL CHIMNEY @ STUD WALL, PARTIAL SECTION D-D
1/2" = 1'-0"

APPROVED: For Public Water, Drainage Systems and Storm	and Storm
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>[Signature]</i>	8-18-84
DIRECTOR	DATE
<i>[Signature]</i>	8-28-84
CHIEF, BUREAU OF ENGINEERING	DATE
APPROVED: For Public Water and Private Sewerage Systems	Private
HOWARD COUNTY HEALTH DEPARTMENT	
<i>[Signature]</i>	1-25-84
COUNTY HEALTH OFFICER	DATE
APPROVED: Howard County Office of Planning and Zoning	
<i>[Signature]</i>	8-29-84
PLANNING DIRECTOR	DATE
<i>[Signature]</i>	8-29-84
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION	DATE

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City, Elect. Dist. No. 2, Ho. Co. Tax Map No. 30 Law Docket A-3652

Liber 781 Folio 592, Parcel 345, 63.6 Ac.
Liber 333 Folio 62, Parcel (Partial) 10, 42.9 Ac.
Liber 507 Folio 437, Parcel 278, 61.45 Ac.

Adjacent Property Owners:

Owner	Liber	Folio	Acres	Parcel
Legg, M. R.	875	471	1.01	126
Zaiser, W. J.	259	105	7.08	92
Saas, J. A.	274	299	2.36	93
Taury, J. P.	611	589	1.23	149
	383	604	1.16	94



LD LAND DESIGN / RESEARCH, INC.
5560 STERRETT PLACE, SUITE 300
COLUMBIA, MARYLAND

**LARGE PICNIC SHELTER
FIREPLACE PLAN & DETAILS
CENTENNIAL PARK
PHASE FOUR - LAKESHORE SOUTH AREA**

DATE	REVISIONS:	SHEET NO.
SCALE	AS SHOWN	9A
DRAWN	T.R.E.	OF 81
CHECKED	10-21-83	

this sheet not finished

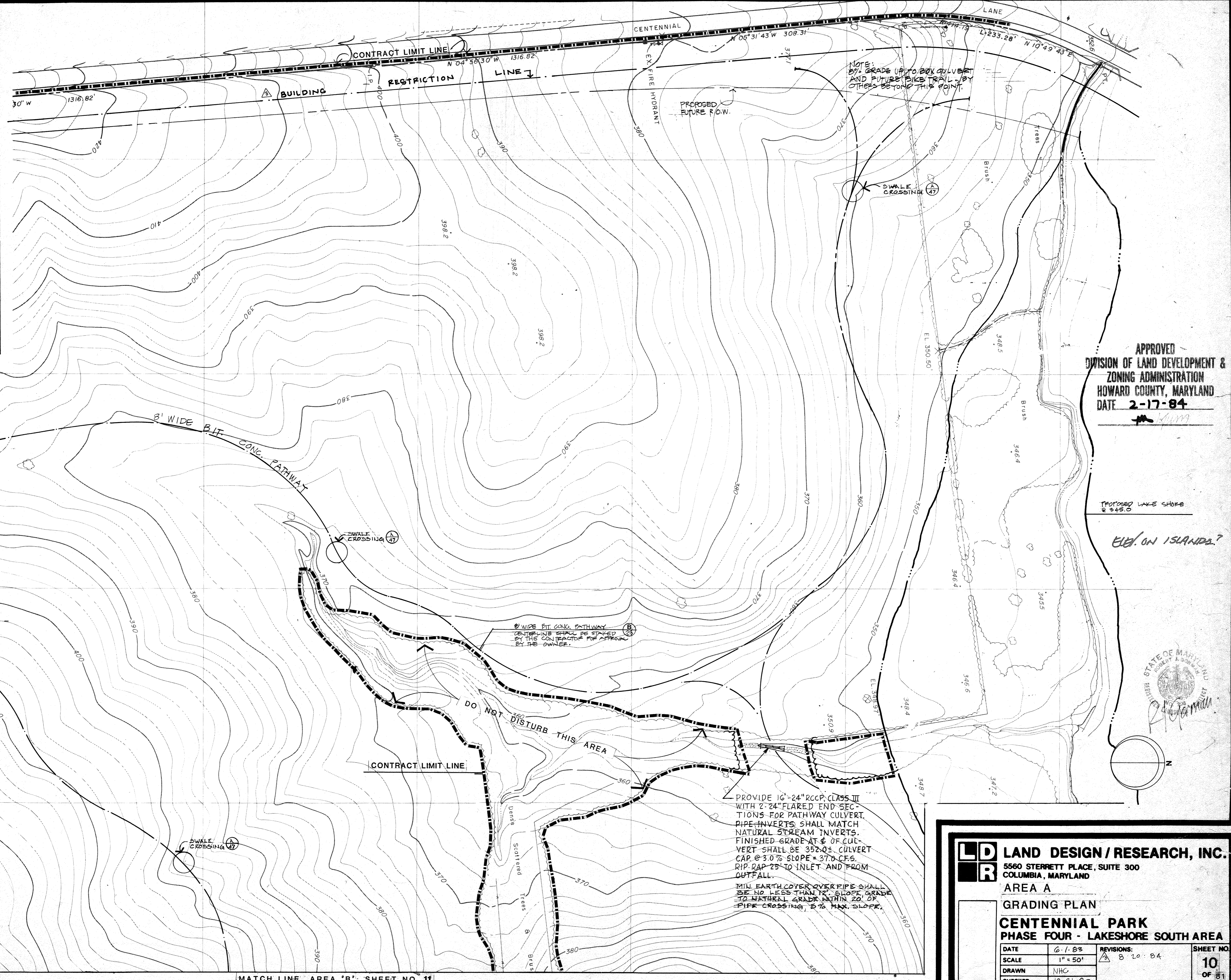
APPROVED: For Public Water, Drainage Systems and Roads and Storm
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Director: *Henry F. Nummy* 8-21-84
 DATE: 8-21-84
 Chief, Bureau of Engineering: *Robert E. Riley* 10-28-83
 DATE: 10-28-83

APPROVED: For Public Water and Private Sewerage Systems
 HOWARD COUNTY HEALTH DEPARTMENT
 County Health Officer: *John A. Ogden* 1-25-84
 DATE: 1-25-84

APPROVED: Howard County Office of Planning and Zoning
 Planning Director: *Donald L. Hamilton* 8-21-84
 DATE: 8-21-84
 Chief, Division of Land Development and Zoning Administration: *Donald L. Hamilton* 8-21-84
 DATE: 8-21-84

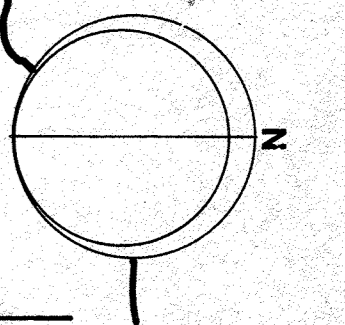
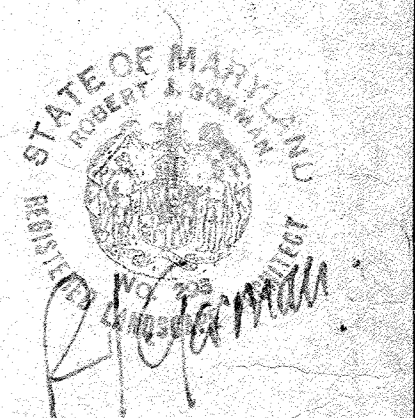
Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City
 Elect. Dist. No. 2, Ho. Co. Tax Map No. 30
 Law Docket A-3652
 Liber 781 Folio 592, Parcel 345, 63.6 Ac.
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 Liber 507 Folio 437, Parcel 278, 61.45 Ac.
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Zaiser, W. J.	259	105	7.08	92
Saas, J. A.	274	299	2.36	93
Taury, J. P.	611	589	1.23	149
	383	604	1.16	94



APPROVED
 DIVISION OF LAND DEVELOPMENT &
 ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 2-17-84
[Signature]

PROPOSED LAKE SHORE @ 345.0
 ELEV. ON ISLANDS?



PROVIDE 16" x 24" RCCP, CLASS III WITH 2" x 24" FLARED END SECTIONS FOR PATHWAY CULVERT. PIPE INVERTS SHALL MATCH NATURAL STREAM INVERTS. FINISHED GRADE AT ϕ OF CULVERT SHALL BE 352.0±. CULVERT CAP @ 3.0% SLOPE = 37.0 C.F.S. RIP RAP 25' TO INLET AND FROM OUTFALL. MIN. EARTH COVER OVER PIPE SHALL BE NO LESS THAN 12' SLOPE GRADE TO NATURAL GRADE WITHIN 20' OF PIPE CROSSING, 5% MAX. SLOPE.

MATCH LINE AREA 'B' SHEET NO. 11

LD R	LAND DESIGN / RESEARCH, INC.		
	5560 STERRETT PLACE, SUITE 300 COLUMBIA, MARYLAND		
AREA A			
GRADING PLAN			
CENTENNIAL PARK PHASE FOUR - LAKESHORE SOUTH AREA			
DATE	6-1-83	REVISIONS:	SHEET NO.
SCALE	1" = 50'	1. 8-20-84	10
DRAWN	NHC		OF 81
CHECKED	10-21-82		

SDP-84-165

NOTE:
 REFER TO SHEET NO. 7
 FOR CONSTRUCTION LAYOUT
 REFER TO SHEET NO. 24
 FOR UTILITY PLAN

Reviewed for *Howard* S.C.D.
 Name
 and meets Technical Requirements
John M. Tolson Date *12-27-83*
 Signature
 U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED
 FOR SOIL EROSION AND SEDIMENT
 CONTROL BY THE HOWARD SOIL
 CONSERVATION DISTRICT.
 Approved *Howard* Date *10-27-83*
 Howard S.C.D.

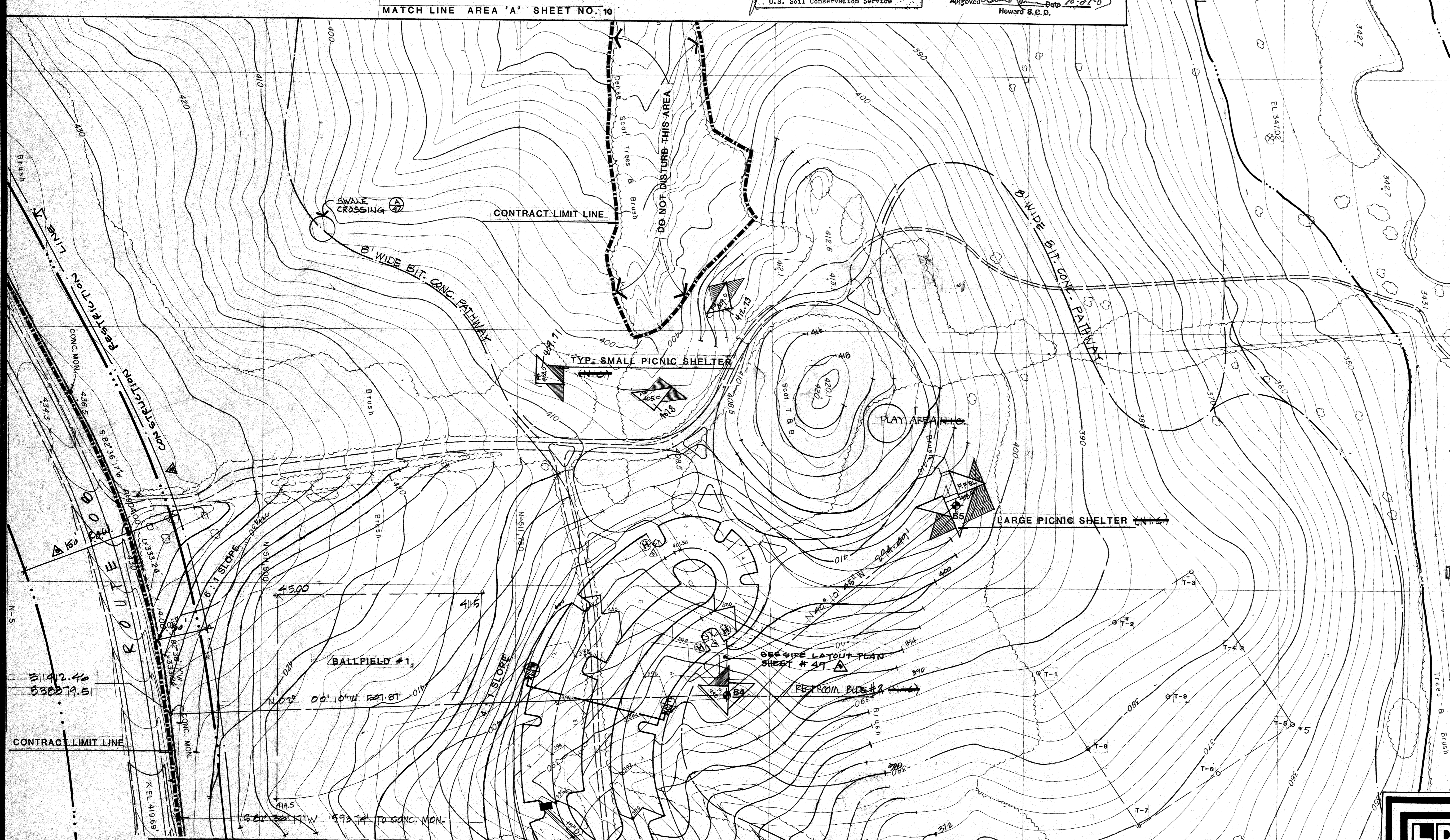
APPROVED: For Public Water, Drainage Systems and Storm and Storm
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
George E. Nemy 8-27-84
 DIRECTOR DATE
Robert S. Kelly 10-23-83
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: For Public Water and Private Sewerage Systems
 HOWARD COUNTY HEALTH DEPARTMENT
Joseph J. Jones 1-25-84
 COUNTY HEALTH OFFICER DATE

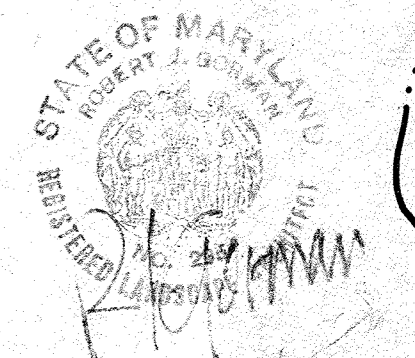
APPROVED: Howard County Office of Planning and Zoning
Thomas J. King 8-29-84
 PLANNING DIRECTOR DATE
John M. Tolson 8-29-84
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City
 Elect. Dist. No. 2, Ho. Co. Tax Map No. 30
 Law Docket A-3652
 Liber 781 Folio 592, Parcel 345, 63.6 Ac.
 Liber 333 Folio 62, Parcel (Partial) 10, 42.9 Ac.
 Liber 507 Folio 437, Parcel 278, 61.45 Ac.
 Adjacent Property Owners:

Liber	Folio	Acres	Parcel
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Zaiser, W. J.	259	105	7.08 92
Saas, J. A.	274	299	2.36 93
Taury, J. P.	611	589	1.23 149
	383	604	1.16 94



APPROVED
 DIVISION OF LAND DEVELOPMENT &
 ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 2-17-84



MATCH LINE AREA 'C' SHEET NO. 12

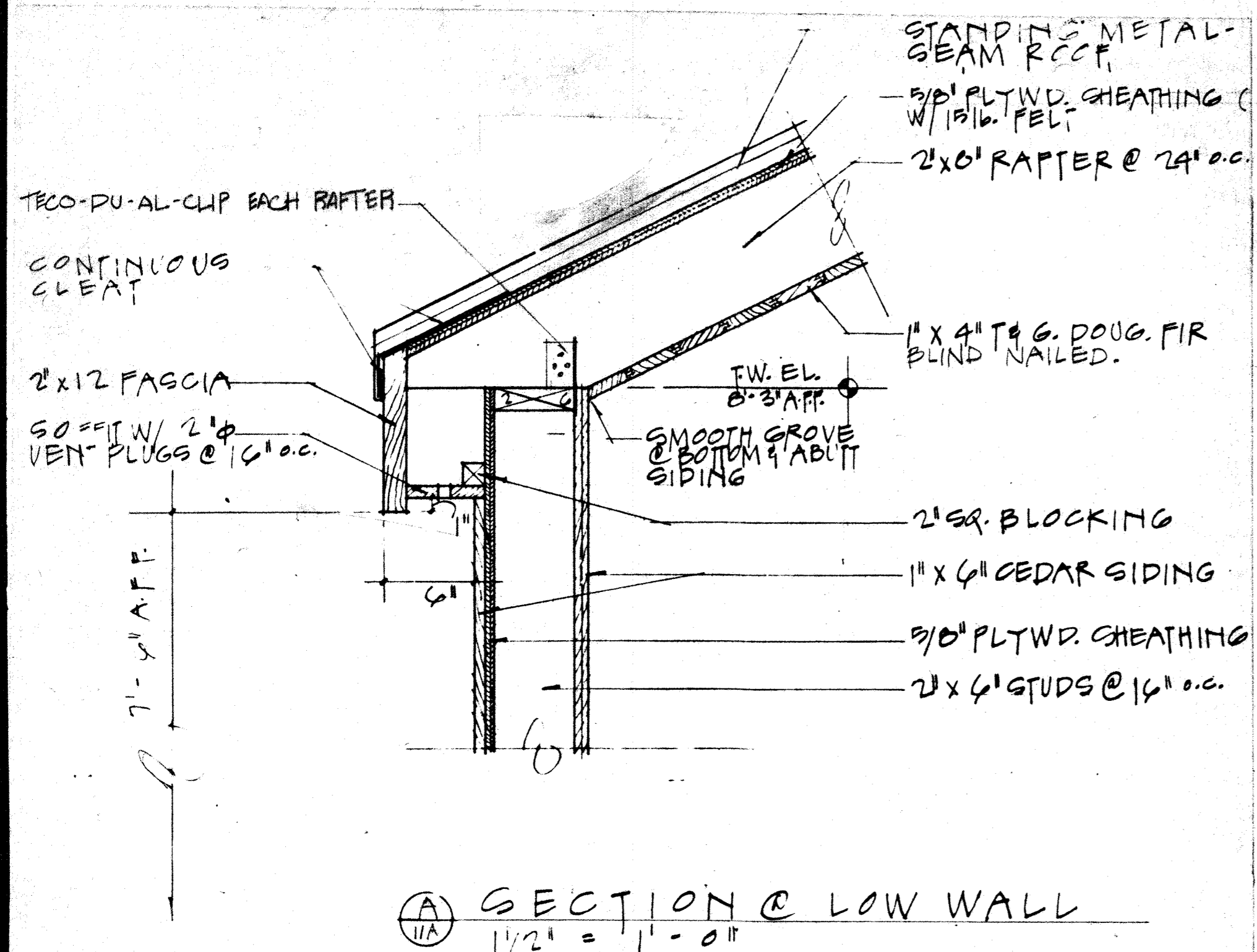
TEST HOLES SHALL
 BE 90' ± ON CENTER

NOTE:
 1. CONTRACTOR SHALL SOD ALL SWALES TO A WIDTH OF 10' UNLESS OTHERWISE INDICATED.
 2. ALL SMALL PICNIC SHELTERS SHALL BE FIELD LOCATED BY THE DEPT. OF REC. AND PARKS. (N.T.C.)

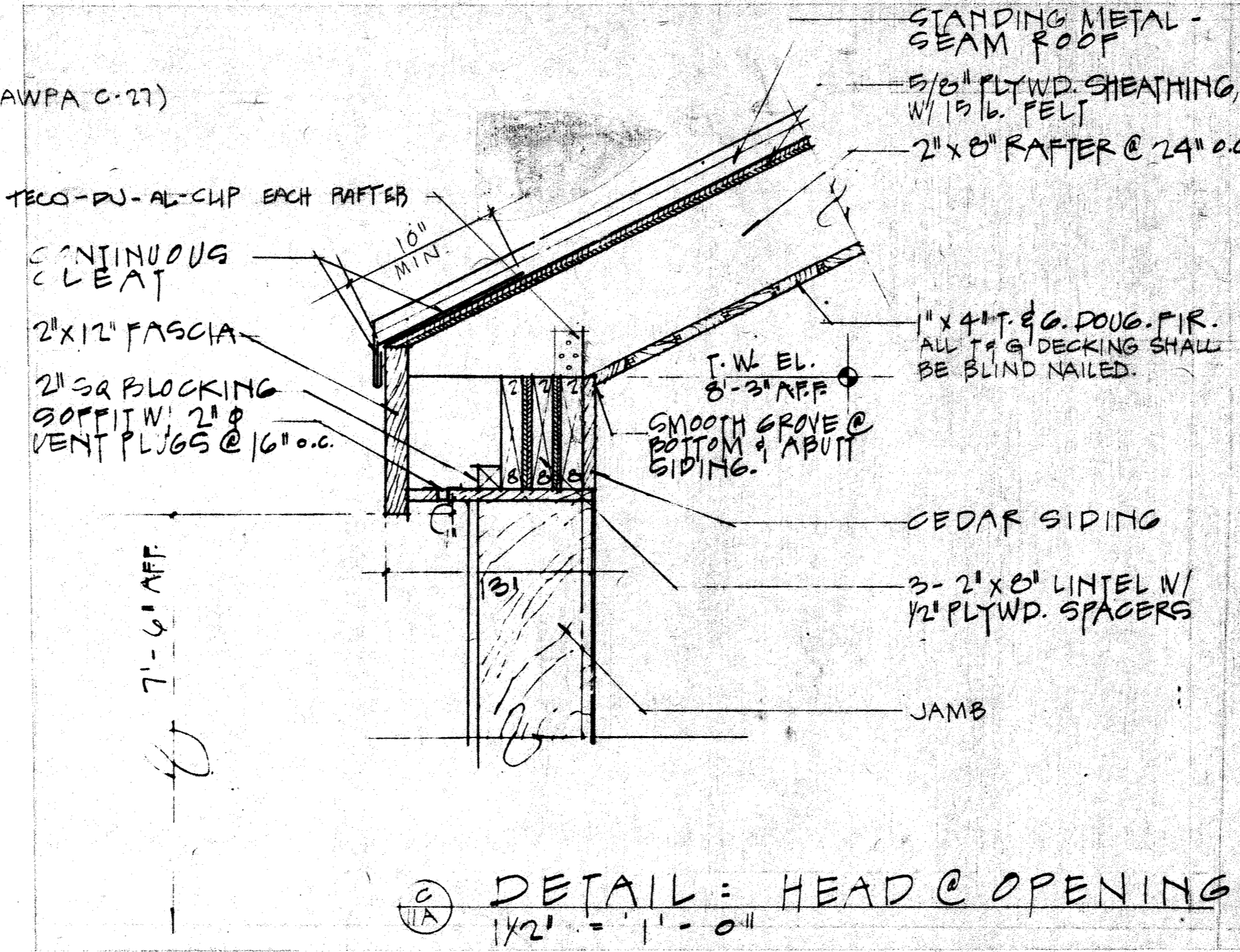
LD LAND DESIGN / RESEARCH, INC.
 5560 STERRETT PLACE, SUITE 300
 COLUMBIA, MARYLAND

AREA B
 GRADING PLAN
CENTENNIAL PARK
 PHASE FOUR - LAKESHORE SOUTH AREA

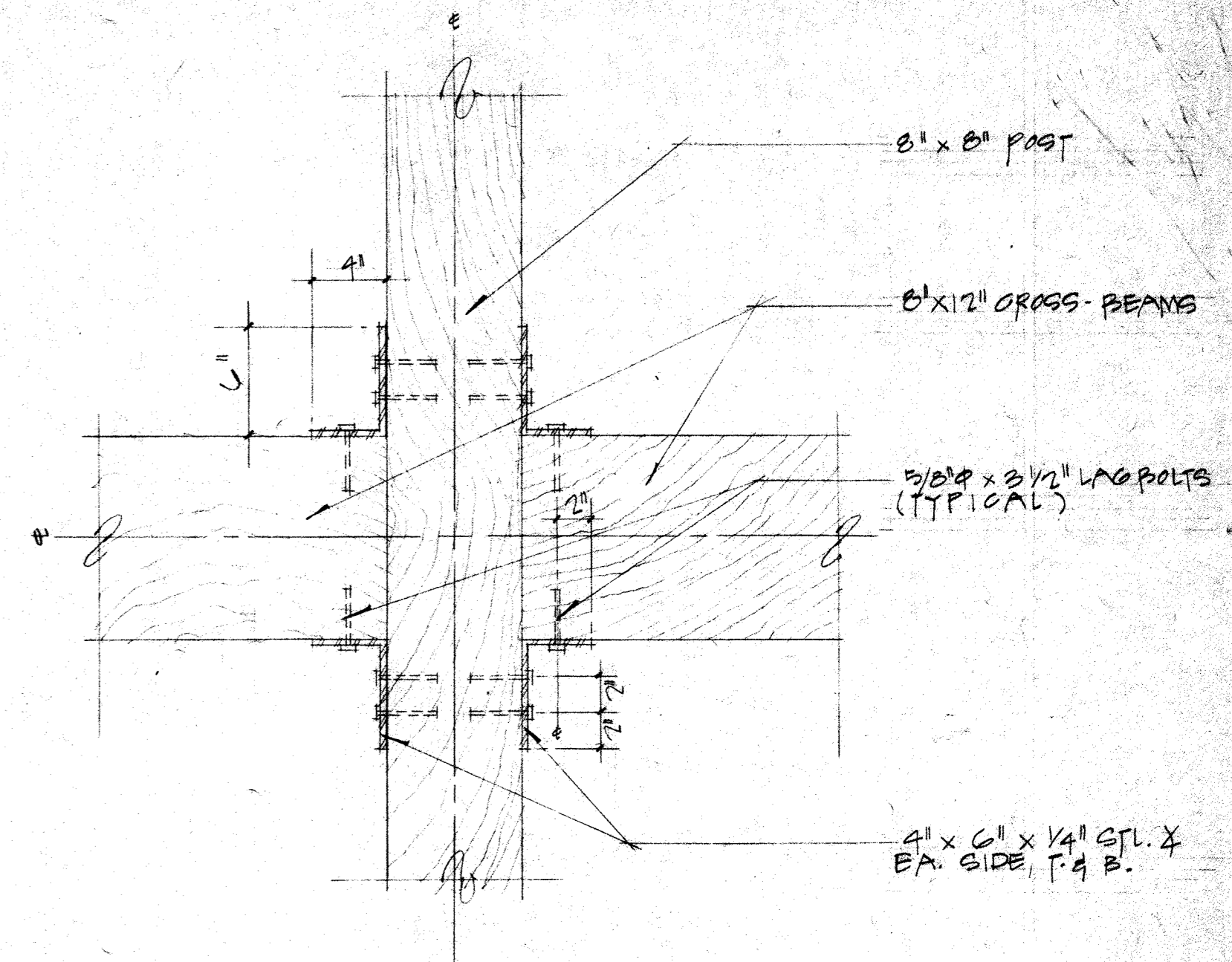
DATE	0-1-83	REVISIONS:	Δ 8-28-84	SHEET NO.	11
SCALE	ONE INCH = 80' ON				OF 81
DRAWN	NHC				
CHECKED	10-21-83				



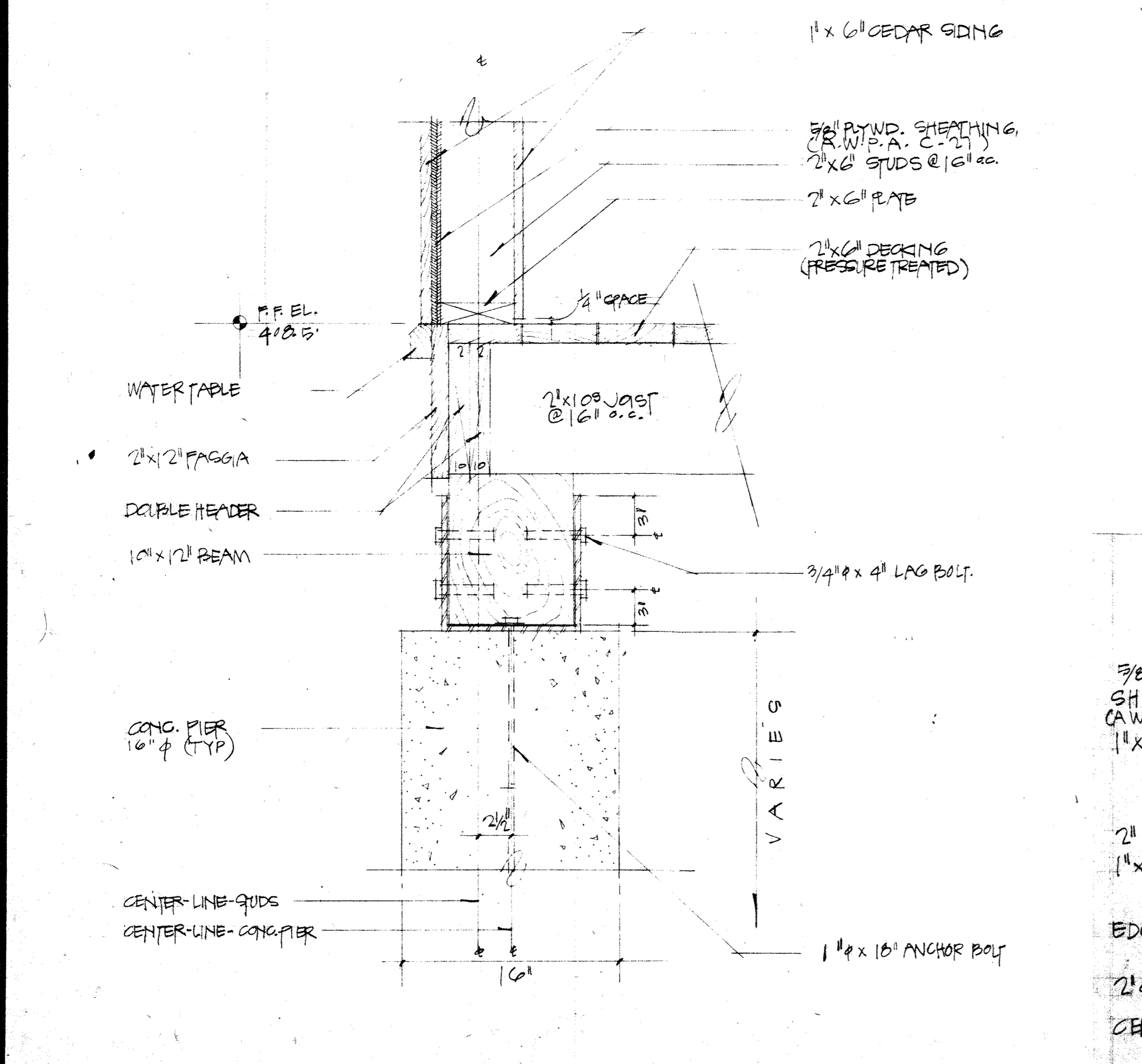
(A) SECTION @ LOW WALL
1/2" = 1'-0"



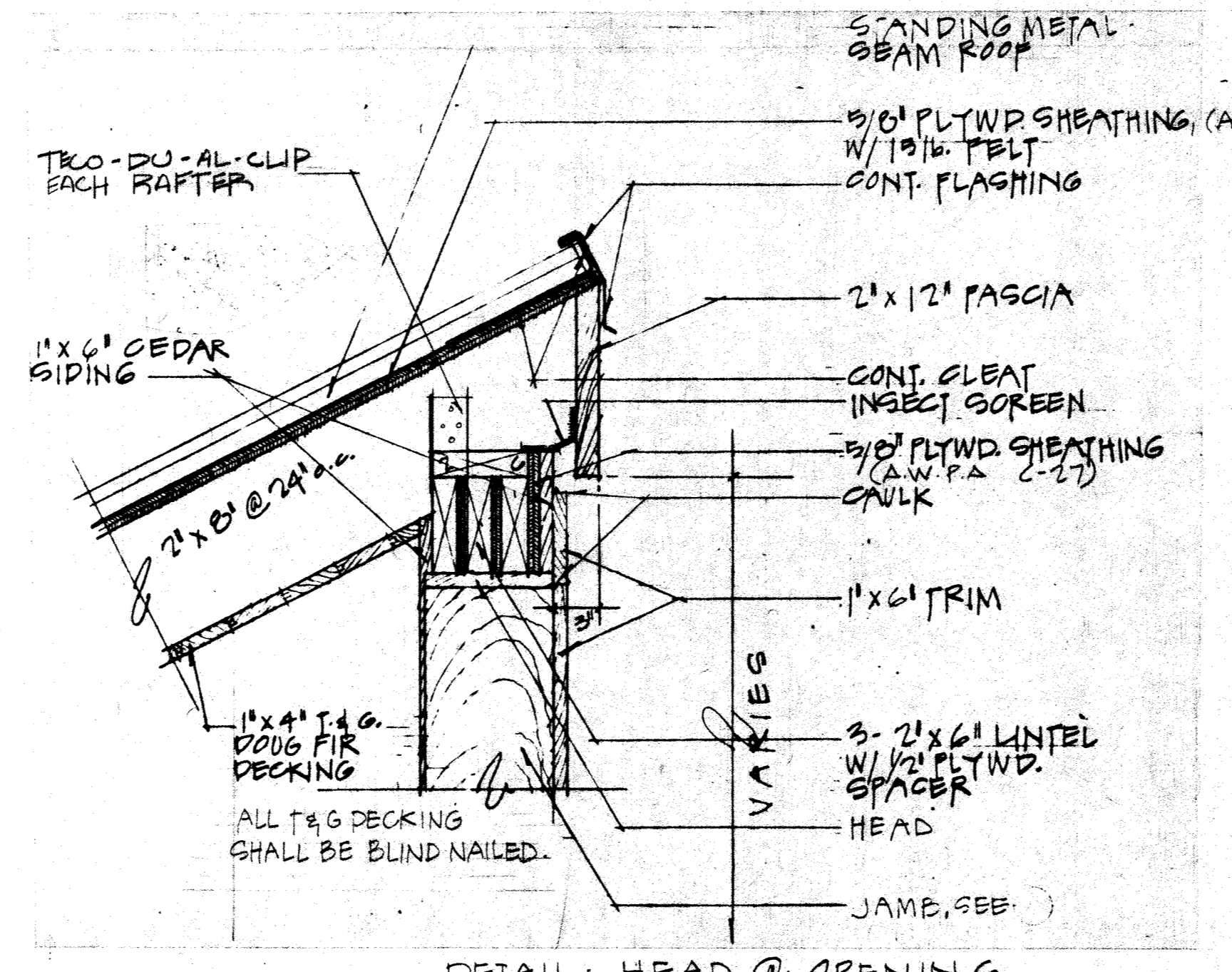
(A) DETAIL: HEAD @ OPENING
1/2" = 1'-0"



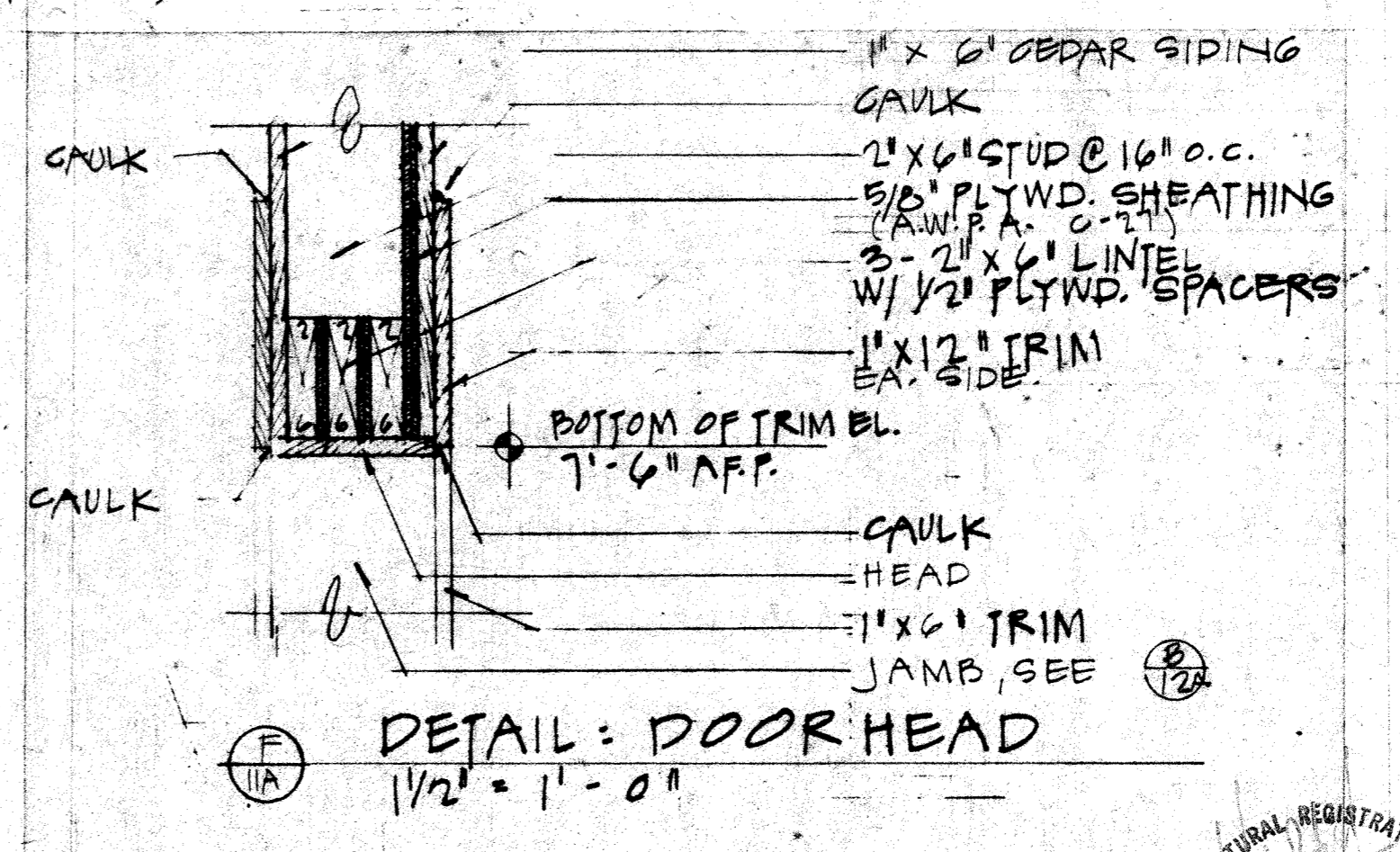
(A) INTERIOR POST & BEAM CONNECTION
1/2" = 1'-0"



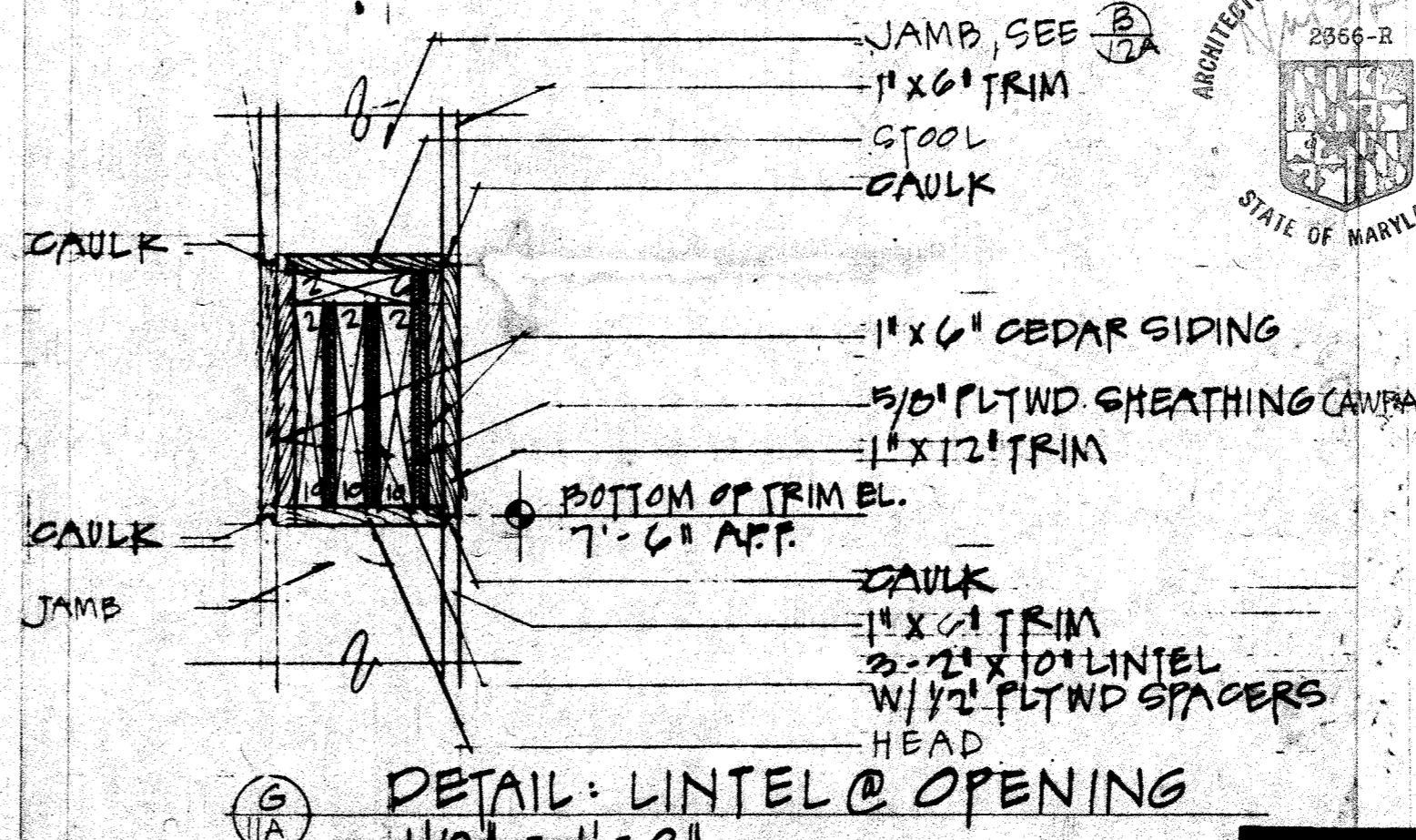
(B) DETAIL: BASE OF WALL @ PIER
1/2" = 1'-0"



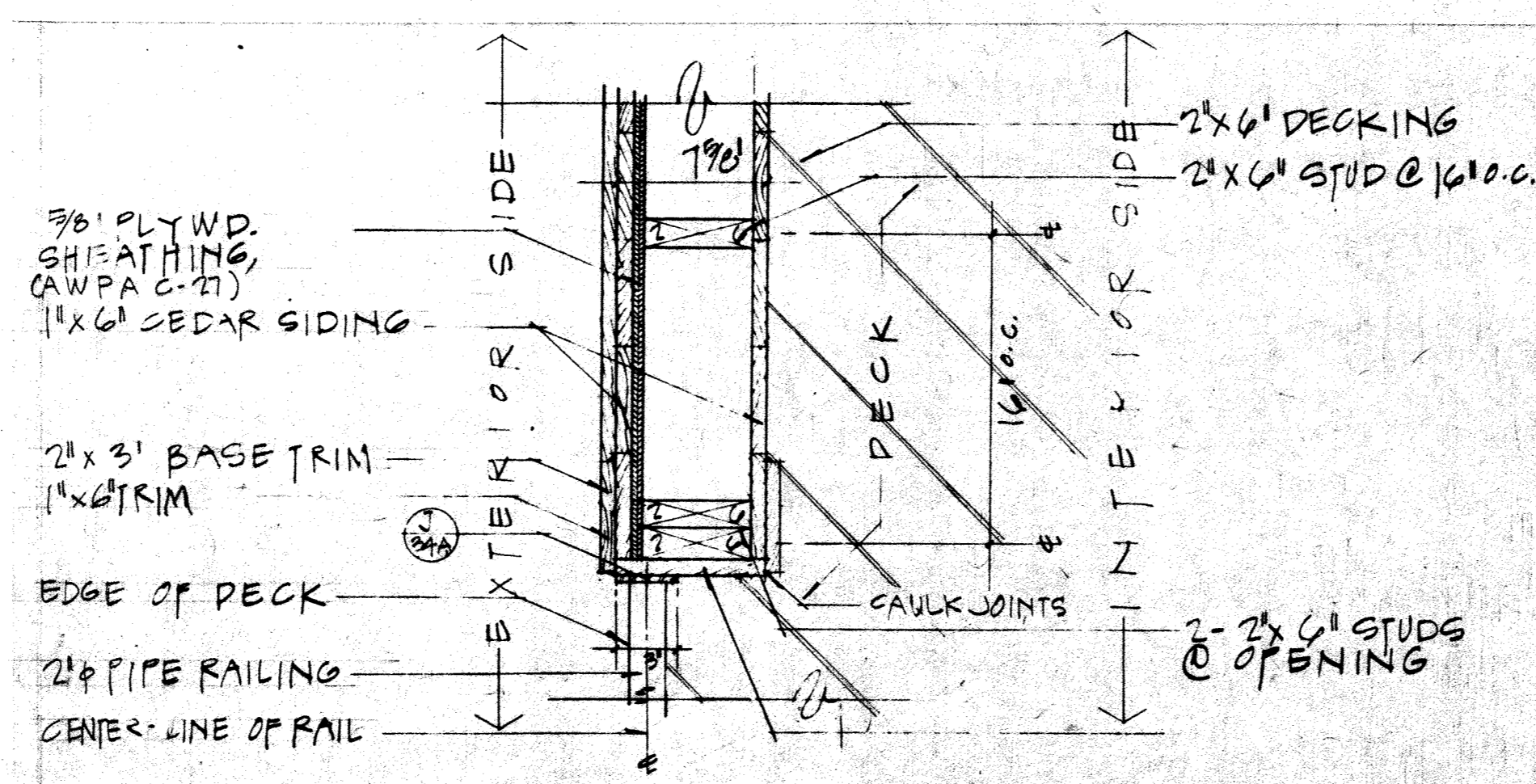
(A) DETAIL: HEAD @ OPENING
1/2" = 1'-0"



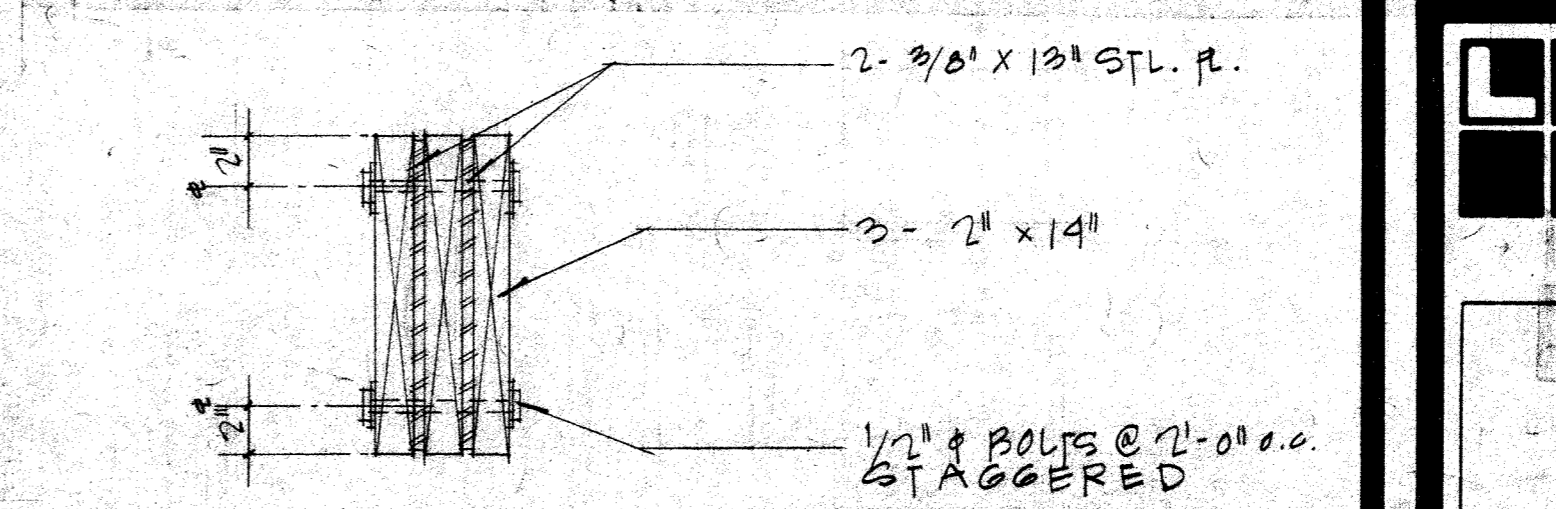
(A) DETAIL: DOOR HEAD
1/2" = 1'-0"



(A) DETAIL: LINTEL @ OPENING
1/2" = 1'-0"

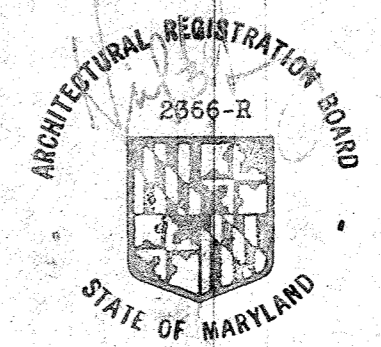


(A) DETAIL: JAMB @ OPENING W/ RAILING
1/2" = 1'-0"



(A) FITCH PLATE BEAM
1/2" = 1'-0"

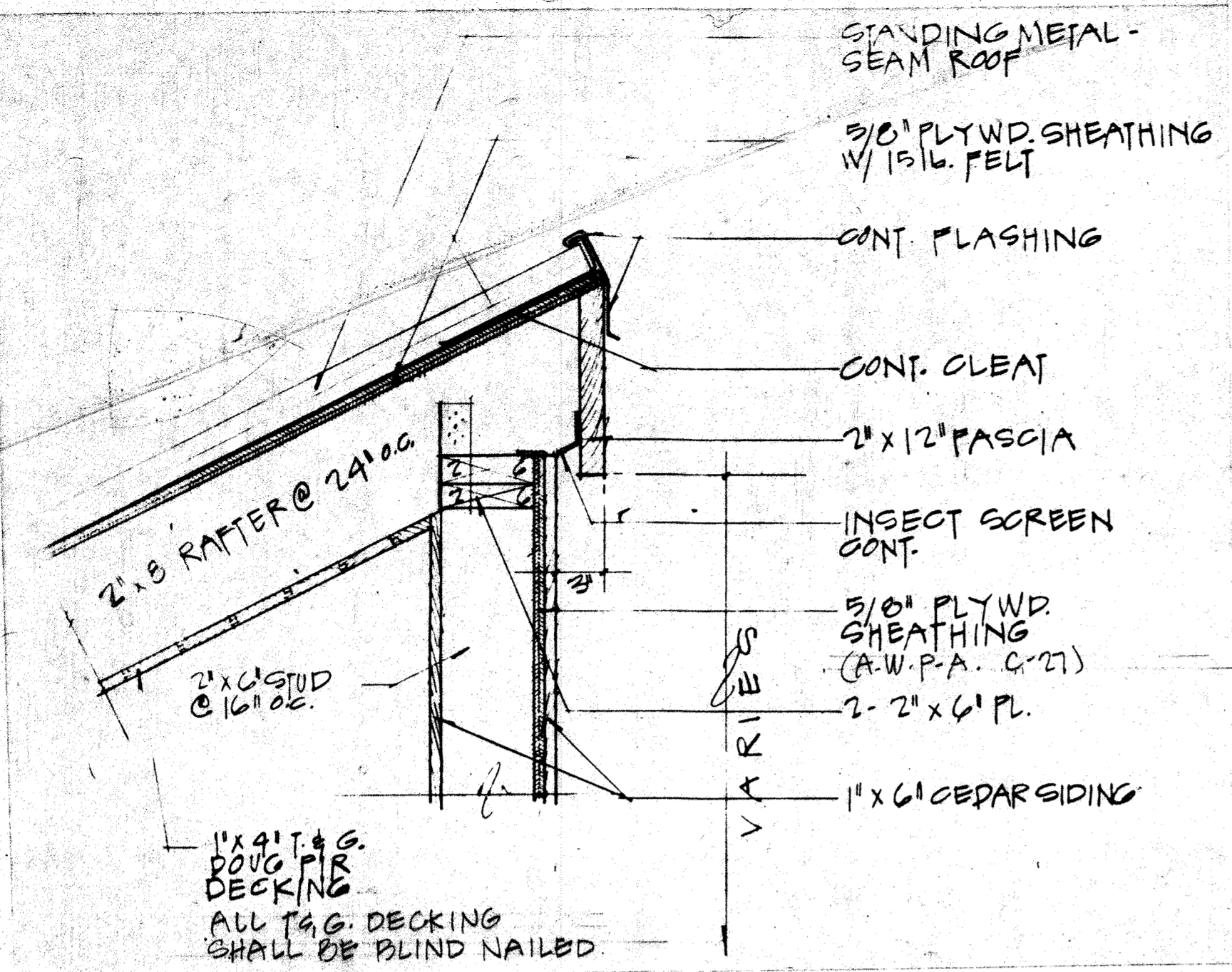
APPROVED: For Public Water, Drainage Systems and Roads		and Storm
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS		
<i>John F. Neuman</i>	8-28-84	DATE
DIRECTOR		
<i>William S. Brown</i>	8-28-84	DATE
CHIEF, BUREAU OF ENGINEERING		
APPROVED: For Public Sewerage Systems		Water and Private
HOWARD COUNTY HEALTH DEPARTMENT		
<i>John Paul Lee</i>	1-25-84	DATE
COUNTY HEALTH OFFICER		
APPROVED: Howard County Office of Planning and Zoning		
<i>William L. Smith</i>	8-28-84	DATE
PLANNING DIRECTOR		
<i>William L. Smith</i>	8-28-84	DATE
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION		
Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City, Md. Elect. Dist. No. 2, Ho. Co. Tax Map No. 30, Law Docket A-3652		
Liber 781 Folio 592, Parcel 345, 63.6 Ac.		
Liber 333 Folio 62, Parcel (Partial) 10, 42.9 Ac.		
Liber 507 Folio 437, Parcel 278, 61.45 Ac.		
Adjacent Property Owners:		
Legg, M. R.	Liber 875	Folio 1.01
Zaiser, W. J.	259	105 7.08
Saas, J. A.	274	299 2.36
Taury, J. P.	611	589 1.23
	383	604 1.16
		94



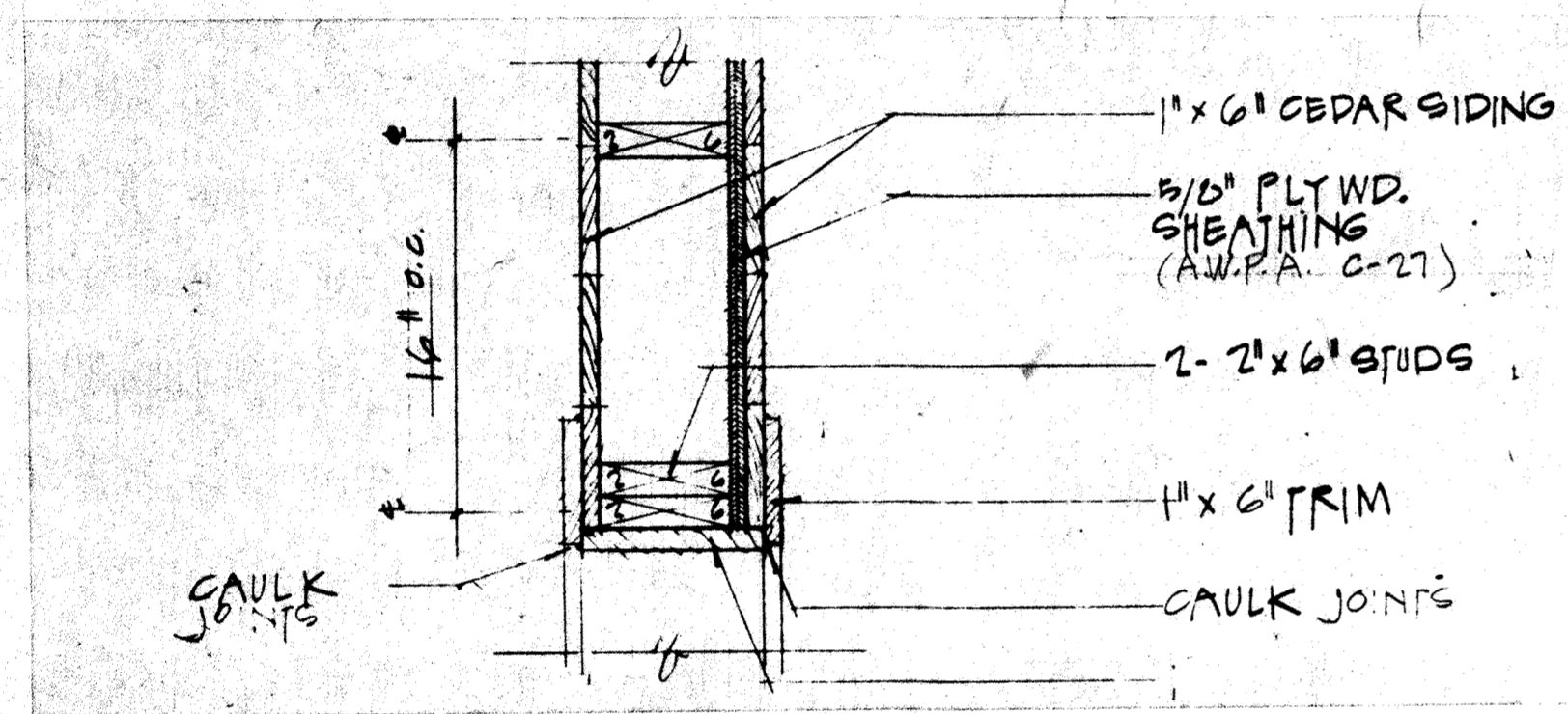
LD LAND DESIGN / RESEARCH, INC.
5560 STERRETT PLACE, SUITE 300
COLUMBIA, MARYLAND

LARGE PICNIC SHELTER
Miscellaneous details
CENTENNIAL PARK
PHASE FOUR - LAKESHORE SOUTH AREA

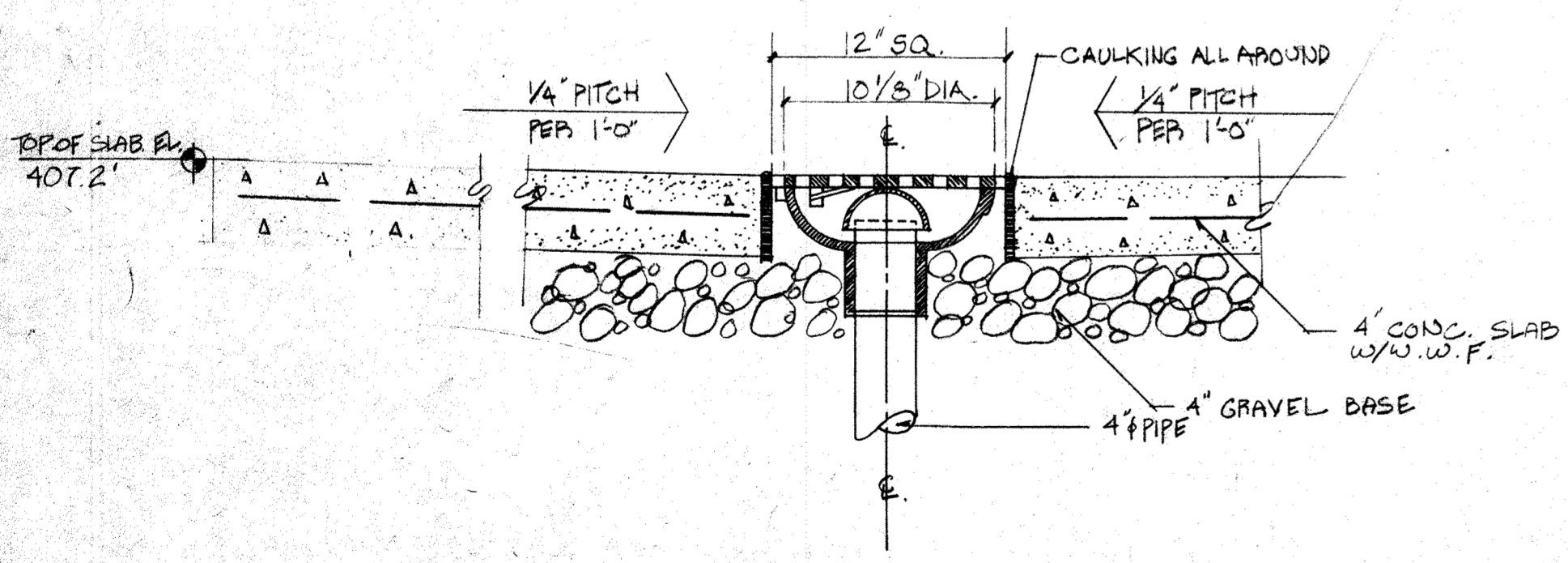
DATE	1/2" = 1'-0"	REVISIONS:	SHEET NO.
SCALE			11A
DRAWN	J. R. E.		OF 81
CHECKED	10-21-83		



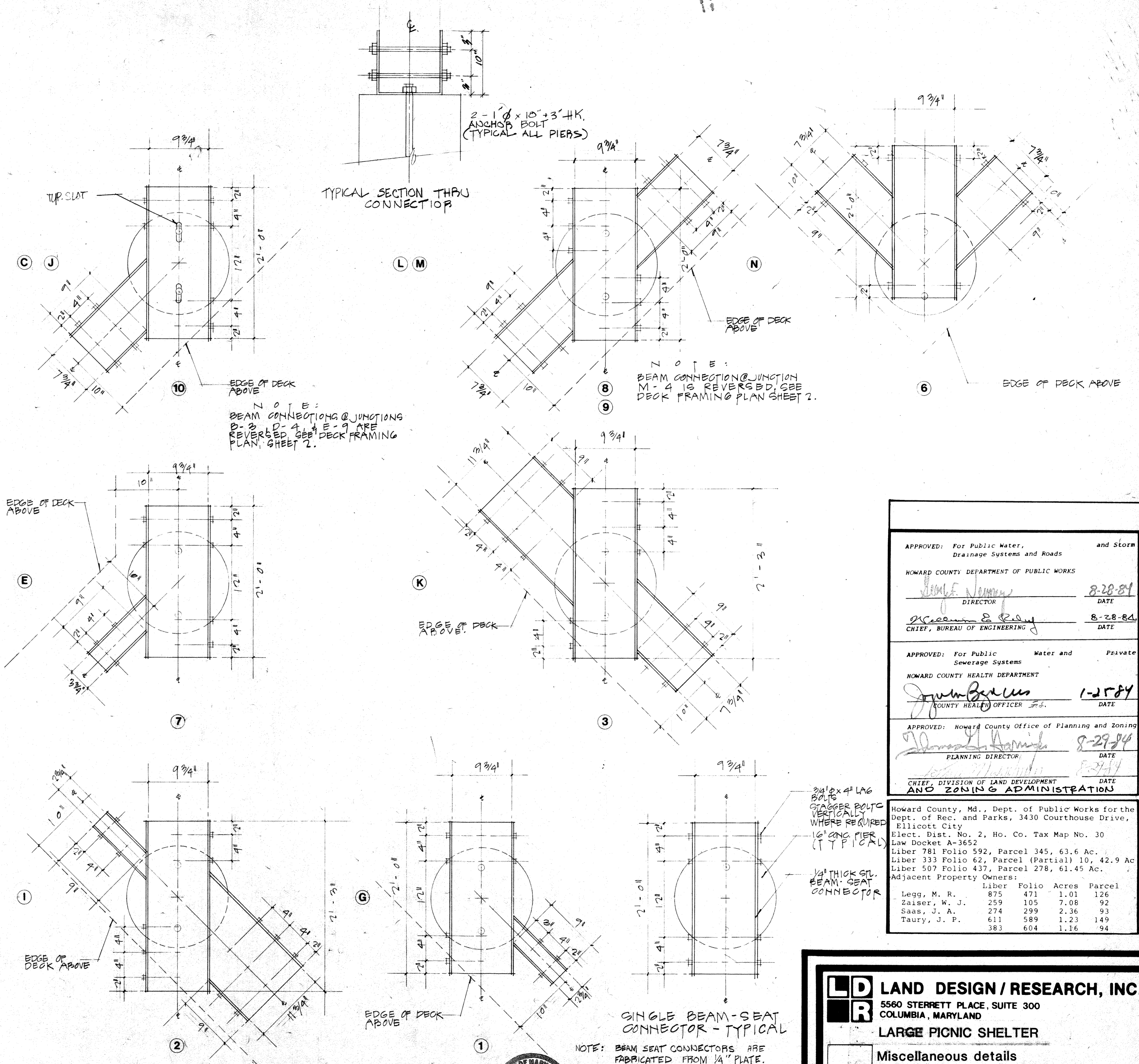
SECTION @ HIGH WALL
1/2" = 1'-0"



DETAIL: JAMB @ OPENING
1/2" = 1'-0"



JOSAH FLOOR DRAIN
1/2" = 1'-0"
SERIES 39980 w/4" PIPE
TYPE 39984 (CAST IRON)



NOTE: BEAM SEAT CONNECTORS ARE FABRICATED FROM 1/4\"/>



APPROVED: For Public Water, Drainage Systems and Storm and Storm		
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS		
<i>Shirley J. Nummy</i>	8-28-84	DATE
DIRECTOR		
<i>William E. Reilly</i>	8-28-84	DATE
CHIEF, BUREAU OF ENGINEERING		
APPROVED: For Public Water and Private Sewerage Systems		
HOWARD COUNTY HEALTH DEPARTMENT		
<i>John B. Lewis</i>	1-25-84	DATE
COUNTY HEALTH OFFICER		
APPROVED: Howard County Office of Planning and Zoning		
<i>Thomas J. Harvill</i>	8-29-84	DATE
PLANNING DIRECTOR		
<i>William E. Reilly</i>	8-29-84	DATE
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION		
Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City		
Elect. Dist. No. 2, Ho. Co. Tax Map No. 30		
Liber 781 Folio 592, Parcel 345, 63.6 Ac.		
Liber 333 Folio 62, Parcel (Partial) 10, 42.9 Ac.		
Liber 507 Folio 437, Parcel 278, 61.45 Ac.		
Adjacent Property Owners:		
Legg, M. R.	Liber Folio Acres	Parcel
Zaiser, W. J.	875 471 1.01	126
Saas, J. A.	259 105 7.08	92
Taury, J. P.	274 299 2.36	93
	611 589 1.23	149
	383 604 1.16	94

LD LAND DESIGN / RESEARCH, INC.
5560 STERRETT PLACE, SUITE 300
COLUMBIA, MARYLAND

LARGE PICNIC SHELTER

Miscellaneous details
CENTENNIAL PARK
PHASE FOUR - LAKESHORE SOUTH AREA

DATE	1/21/85	REVISIONS:	SHEET NO.
SCALE	1/2" = 1'-0"		12A
DRAWN	F. R. E.		OF 81
CHECKED	10-21-83		

NOTE:
 REFER TO SHEET NO. 9
 FOR CONSTRUCTION LAYOUT.
 REFER TO SHEET NO. 26
 FOR UTILITY PLAN.

BOAT LAUNCH RAMP, REFER
 TO SHEET NO. 30

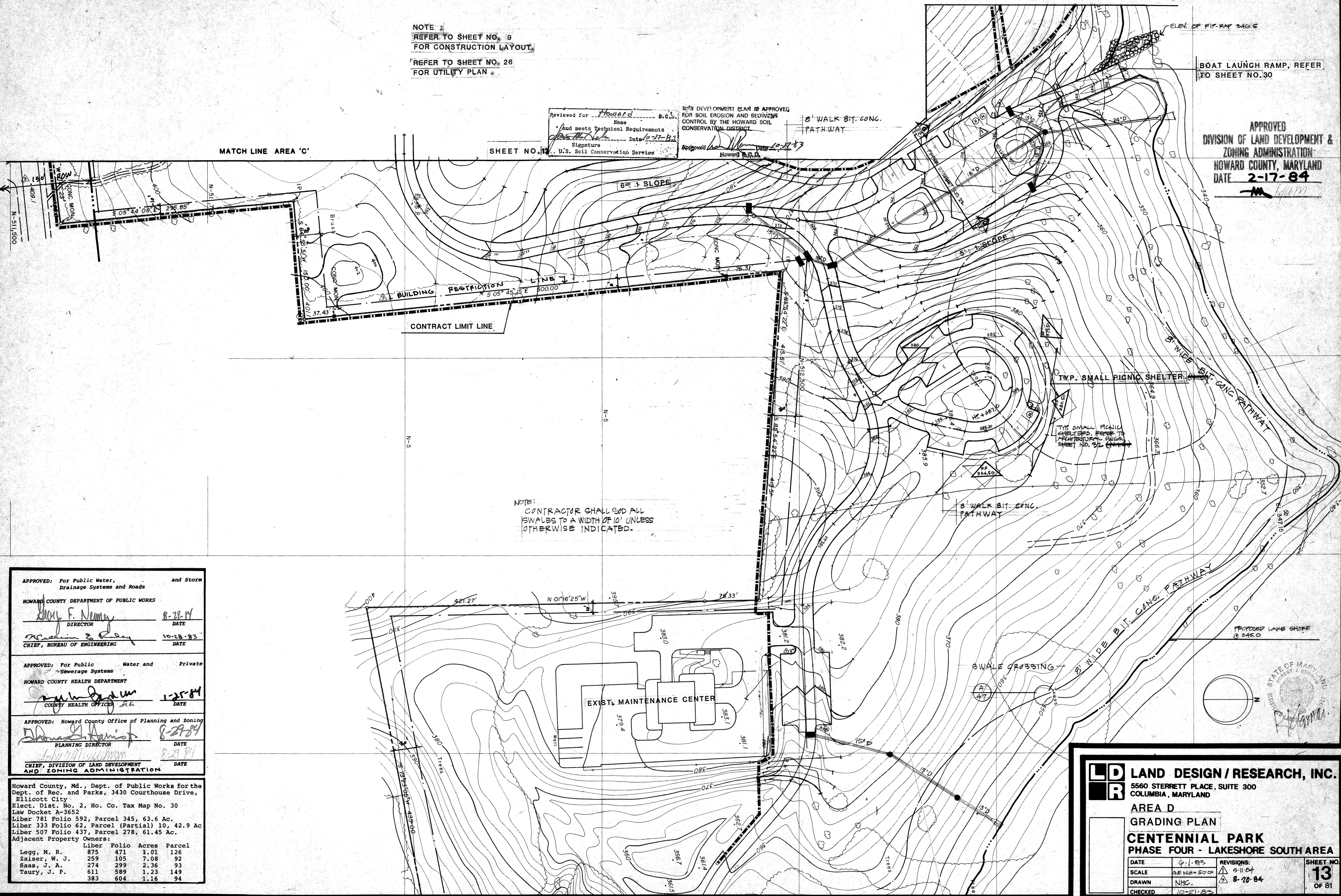
Reviewed for Howard 8-28-84
 Name
 And meets Technical Requirements
 Date
 Signature
 U.S. Soil Conservation Service
 Approved Howard Date 8-28-84
 Howard B. B.

8' WALK BIT. CONC.
 PATHWAY

APPROVED
 DIVISION OF LAND DEVELOPMENT &
 ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 2-17-84

MATCH LINE AREA 'C'

SHEET NO. 12



NOTE:
 CONTRACTOR SHALL SET ALL
 SWALES TO A WIDTH OF 10' UNLESS
 OTHERWISE INDICATED.

APPROVED: For Public Water, and Storm
 Drainage Systems and Roads
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Tommy F. Nemy 8-28-84
 DIRECTOR DATE
William J. Ray 10-28-83
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: For Public Water and Private
 Sewerage Systems
 HOWARD COUNTY HEALTH DEPARTMENT
William J. Ray 1-25-84
 COUNTY HEALTH OFFICER DATE

APPROVED: Howard County Office of Planning and Zoning
Thomas J. Amiot 8-27-84
 PLANNING DIRECTOR DATE
Howard B. B. 8-27-84
 CHIEF, DIVISION OF LAND DEVELOPMENT
 AND ZONING ADMINISTRATION DATE

Howard County, Md., Dept. of Public Works for the
 Dept. of Rec. and Parks, 3430 Courthouse Drive,
 Ellicott City
 Elect. Dist. No. 2, Ho. Co. Tax Map No. 30
 Law Docket A-3652
 Liber 781 Folio 592, Parcel 345, 63.6 Ac.
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Zaiser, W. J.	259	105	7.08 92
Saas, J. A.	274	299	2.36 93
Taury, J. P.	611	589	1.23 149
	383	604	1.16 94

LD LAND DESIGN / RESEARCH, INC.
 5560 STERRETT PLACE, SUITE 300
 COLUMBIA, MARYLAND

AREA D
GRADING PLAN
CENTENNIAL PARK
PHASE FOUR - LAKESHORE SOUTH AREA

DATE	8-1-83	REVISIONS:	
SCALE	ONE INCH = 50 FEET		
DRAWN	NHC		
CHECKED	10-21-83		

SHEET NO. **13**
 OF 81

APPROVED: For Public Water, Drainage Systems and Roads
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Director: *[Signature]* DATE: 8-28-84
 Chief, Bureau of Engineering: *[Signature]* DATE: 10-28-83

APPROVED: For Public Water and Private Sewerage Systems
 HOWARD COUNTY HEALTH DEPARTMENT
 County Health Officer: *[Signature]* DATE: 1-25-84

APPROVED: Howard County Office of Planning and Zoning
 Planning Director: *[Signature]* DATE: 8-29-84
 Chief, Division of Land Development and Zoning Administration: *[Signature]* DATE: 8-29-84

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City
 Elect. Dist. No. 2, Ho. Co. Tax Map No. 30
 Law Docket A-3652
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Saas, J. A.	274	299	2.36	93
Taury, J. P.	611	589	1.23	149
	383	604	1.16	94

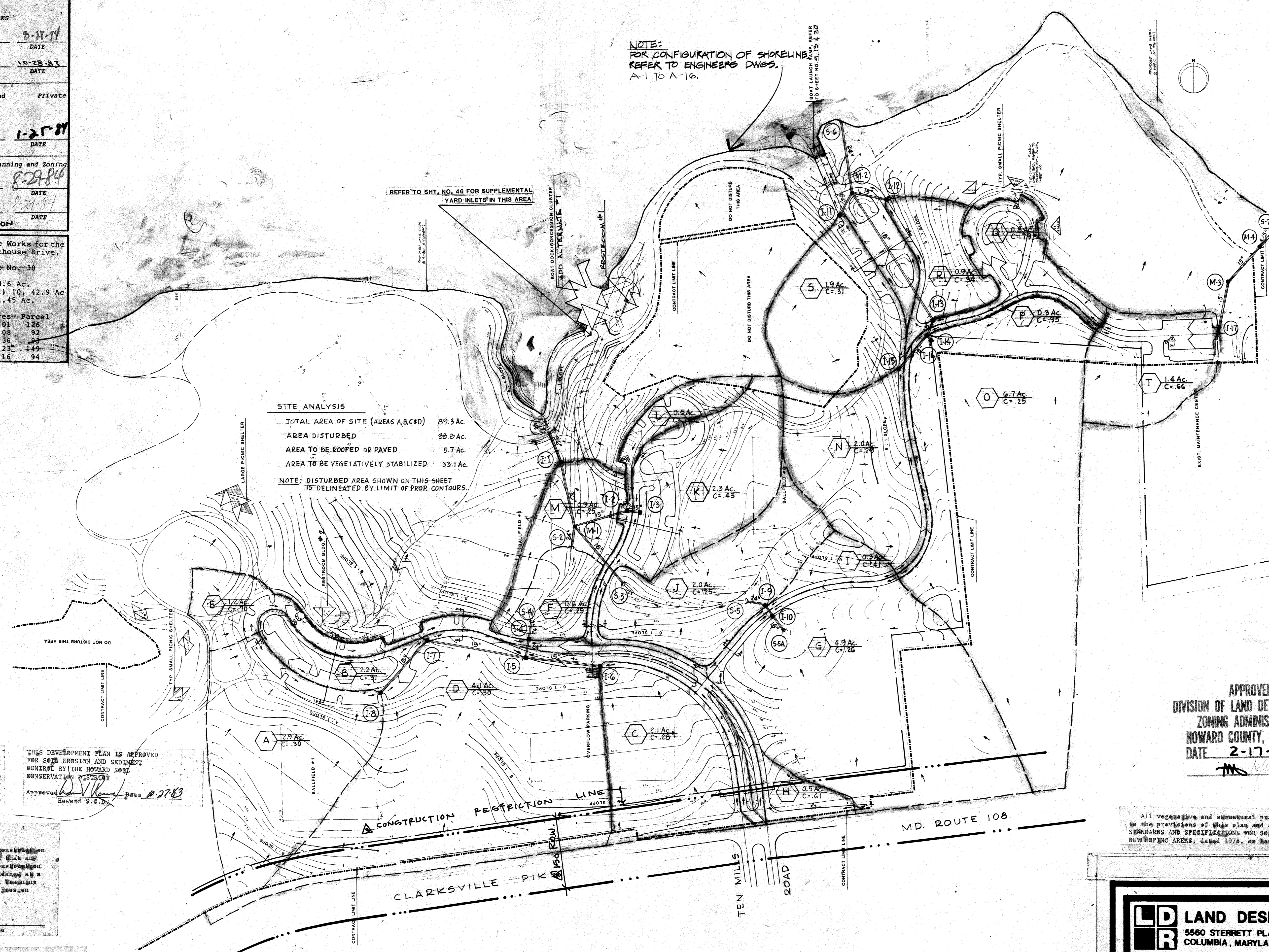
NOTE:
 FOR CONFIGURATION OF SHORELINE
 REFER TO ENGINEERS DWGS.
 A-1 TO A-16.

REFER TO SHT. NO. 48 FOR SUPPLEMENTAL
 YARD INLETS IN THIS AREA.

SITE ANALYSIS

- TOTAL AREA OF SITE (AREAS A,B,C,D) 89.3 Ac.
- AREA DISTURBED 30.8 Ac.
- AREA TO BE ROOFED OR PAVED 5.7 Ac.
- AREA TO BE VEGETATIVELY STABILIZED 33.1 Ac.

NOTE: DISTURBED AREA SHOWN ON THIS SHEET IS DELINEATED BY LIMIT OF PROP. CONTOURS.



Reviewed for Howard S.C.D. and State Technical Requirements
 Date: 10-27-83
 U.S. Soil Conservation Service.

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
 Approved: *[Signature]* Date: 10-27-83
 Howard S.C.D.

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 Assurances as a Department of Natural Resources Approved Working Program for the Control of Sediment and Erosion before beginning the project."
 Signature of Developer: _____ Date: _____

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: _____ Date: _____

APPROVED
 DIVISION OF LAND DEVELOPMENT &
 ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE: 2-17-84
[Signature]

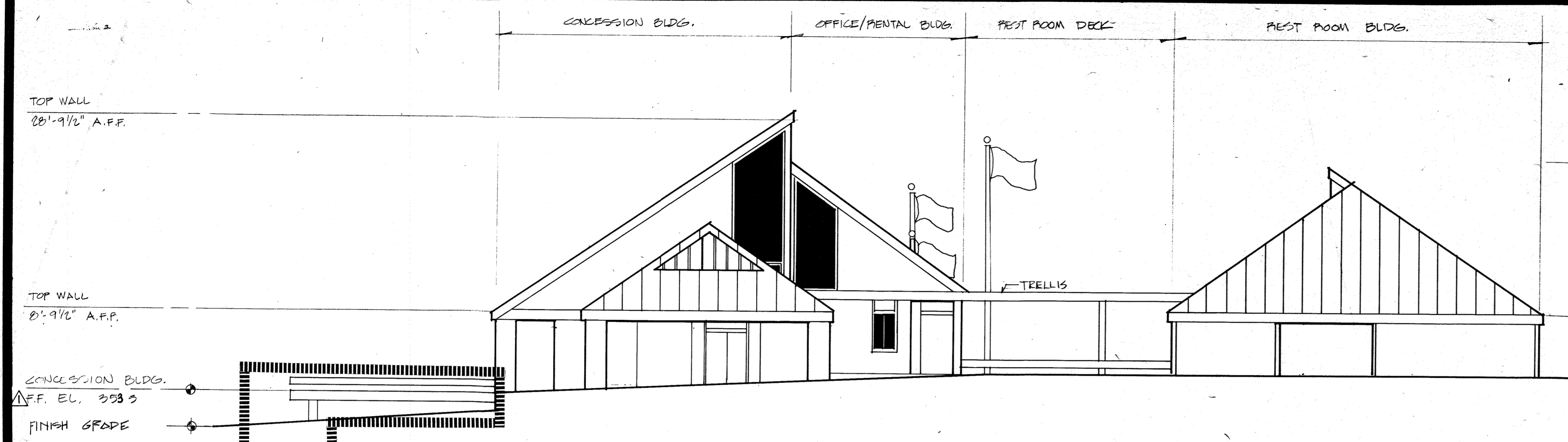
All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS, dated 1976, or later.

NOTE:
 CONTRACTOR SHALL SOD ALL SWALES AS IDENTIFIED ON SHT. 10-13.

[Signature]

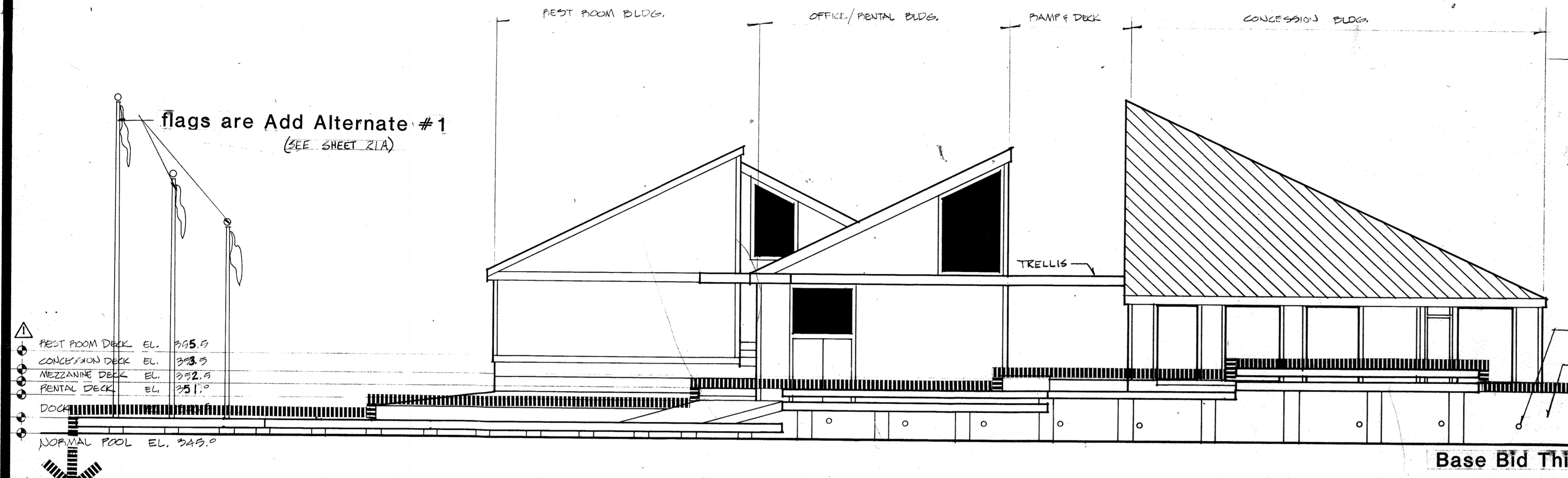
LD R LAND DESIGN / RESEARCH, INC.
 5560 STERRETT PLACE, SUITE 300
 COLUMBIA, MARYLAND
 AREA B-D
 DRAINAGE AREA MAP
 CENTENNIAL PARK
 PHASE FOUR - LAKESHORE SOUTH AREA

DATE	6-1-83	REVISIONS:		SHEET NO.
SCALE	1" = 100'	8-D-04		14
DRAWN				OF 81
CHECKED	10-21-83			



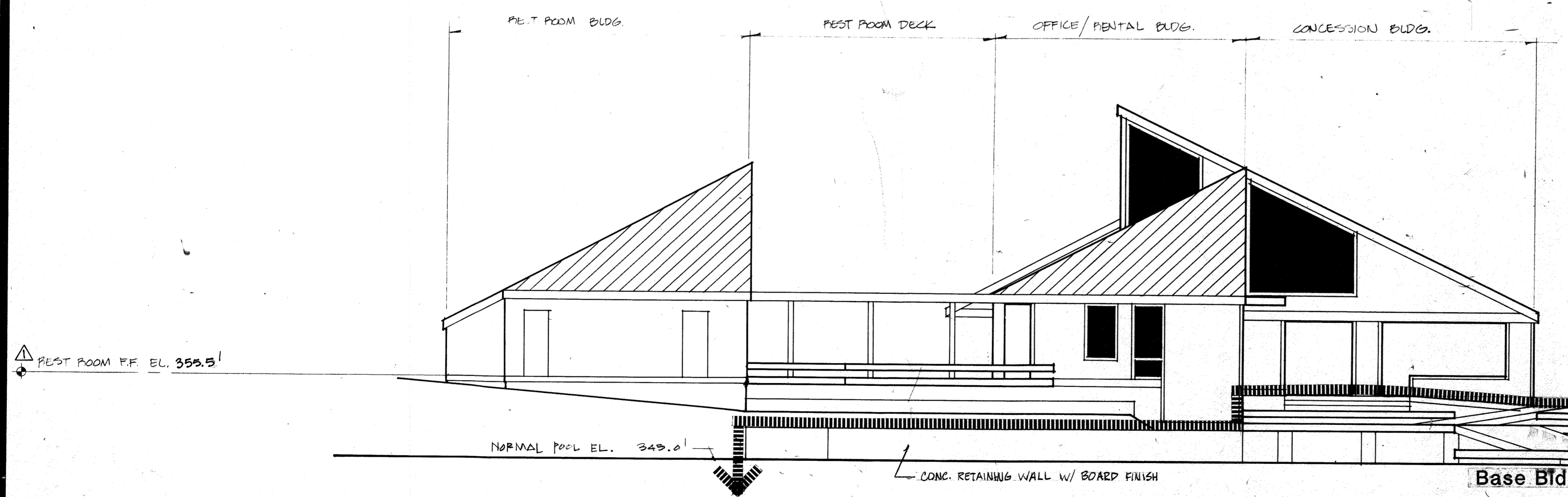
ELEVATION A

Base Bid
This Side



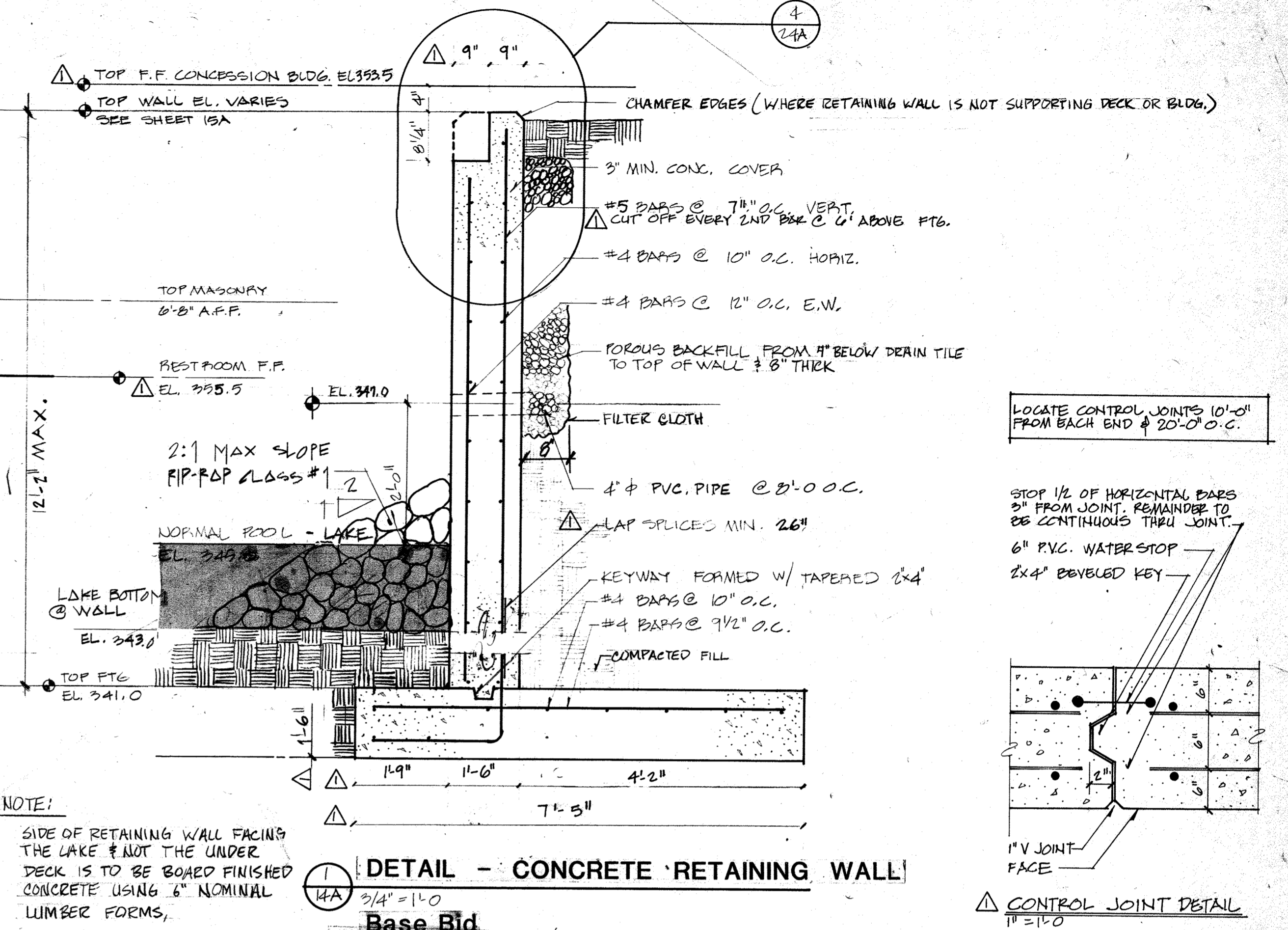
ELEVATION B

Base Bid
This Side



ELEVATION C

Base Bid
This Side



NOTE:
SIDE OF RETAINING WALL FACING THE LAKE & NOT THE UNDER DECK IS TO BE BOARD FINISHED CONCRETE USING 6\"/>

DETAIL - CONCRETE RETAINING WALL

Base Bid

Add Alternate #1
MATERIALS AND COLOR SELECTION FOR CENTENNIAL PARK BUILDINGS

ROOF-TCS/Terme-coated stainless steel by Follansbee Steel Corp. or approved equal.

SIDING-1x6 rough sawn cedar shiplap #2 or better stained with "Birchwood" transparent stain, 77-660 Alkyd Oil by Pittsburg Paint.

METAL RAILING & METAL DOORS-"Tile Red" ready mixed gloss with rust inhibiting primer by Pittsburg Paint.

APPROVED: For Public Water, Drainage Systems and Roads	and Storm
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>[Signature]</i> DIRECTOR	8-28-84 DATE
<i>[Signature]</i> CHIEF, BUREAU OF ENGINEERING	10-25-83 DATE
APPROVED: For Public Water and Private Sewerage Systems	
HOWARD COUNTY HEALTH DEPARTMENT	
<i>[Signature]</i> COUNTY HEALTH OFFICER	1-25-84 DATE
APPROVED: Howard County Office of Planning and Zoning	
<i>[Signature]</i> PLANNING DIRECTOR	8-29-84 DATE
<i>[Signature]</i> CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION	8-29-84 DATE

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City, Md. 21043

Elect. Dist. No. 2, Ho. Co. Tax Map No. 30
Law Docket A-3652
Liber 781 Folio 592, Parcel 345, 63.6 Ac.
Liber 333 Folio 62, Parcel (Partial) 10, 42.9 Ac.
Liber 507 Folio 437, Parcel 278, 61.45 Ac.

Adjacent Property Owners:

Liber	Folio	Acres	Parcel
Legg, M. R.	875	471	1.01 126
Zaiser, W. J.	259	105	7.08 92
Saas, J. A.	274	299	2.36 93
Taury, J. P.	611	589	1.23 149
	383	604	1.16 94

flags are Add Alternate #1



LAND DESIGN / RESEARCH, INC.
5560 STERRETT PLACE, SUITE 300
COLUMBIA, MARYLAND
BOAT DOCK / CONCESSION

CLUSTER ELEVATIONS
CENTENNIAL PARK
PHASE FOUR - LAKESHORE SOUTH AREA

DATE	6-1-83	REVISIONS:	
SCALE	1/8" = 1' - 0"		5-11-84
DRAWN	R. J. L.		
CHECKED	10-21-83		

SHEET NO. **14A** OF 81

APPROVED: For Public Water, and Storm Drainage Systems and Roads
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Director: *[Signature]* DATE: 8-28-84
 Chief, Bureau of Engineering: *[Signature]* DATE: 10-28-83

APPROVED: For Public Water and Private Sewerage Systems
 HOWARD COUNTY HEALTH DEPARTMENT
 County Health Officer: *[Signature]* DATE: 1-25-84

APPROVED: Howard County Office of Planning and Zoning
 Planning Director: *[Signature]* DATE: 8-29-84
 Chief, Division of Land Development and Zoning Administration: *[Signature]* DATE: 8-29-84

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City
 Elect. Dist. No. 2, Ho. Co. Tax Map No. 30
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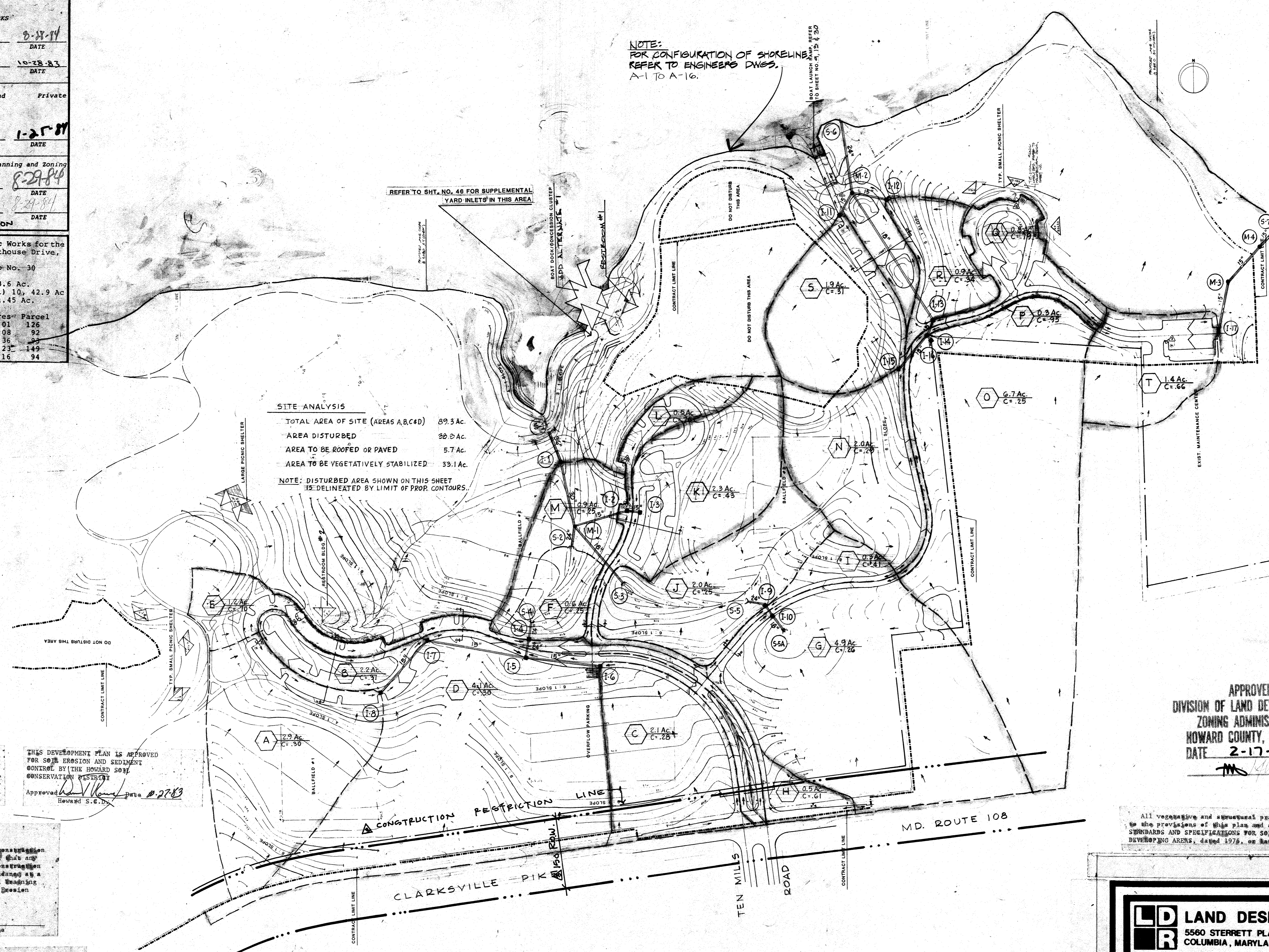
NOTE:
 FOR CONFIGURATION OF SHORELINE
 REFER TO ENGINEERS DWGS.
 A-1 TO A-16.

REFER TO SHT. NO. 48 FOR SUPPLEMENTAL YARD INLETS IN THIS AREA.

SITE ANALYSIS

- TOTAL AREA OF SITE (AREAS A,B,C,D) 89.3 Ac.
- AREA DISTURBED 30.0 Ac.
- AREA TO BE ROOFED OR PAVED 5.7 Ac.
- AREA TO BE VEGETATIVELY STABILIZED 33.1 Ac.

NOTE: DISTURBED AREA SHOWN ON THIS SHEET IS DELINEATED BY LIMIT OF PROP. CONTOURS.



Reviewed for Howard S.C.D. and State Technical Requirements
 Date: 10-27-83
 U.S. Soil Conservation Service.

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
 Approved: *[Signature]* Date: 10-27-83
 Howard S.C.D.

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 Assurances as a Department of Natural Resources Approved Working Program for the Control of Sediment and Erosion before beginning the project."
 Signature of Developer: _____ Date: _____

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 "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: _____ Date: _____

APPROVED
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE: 2-17-84
[Signature]

All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS, dated 1976, or later.

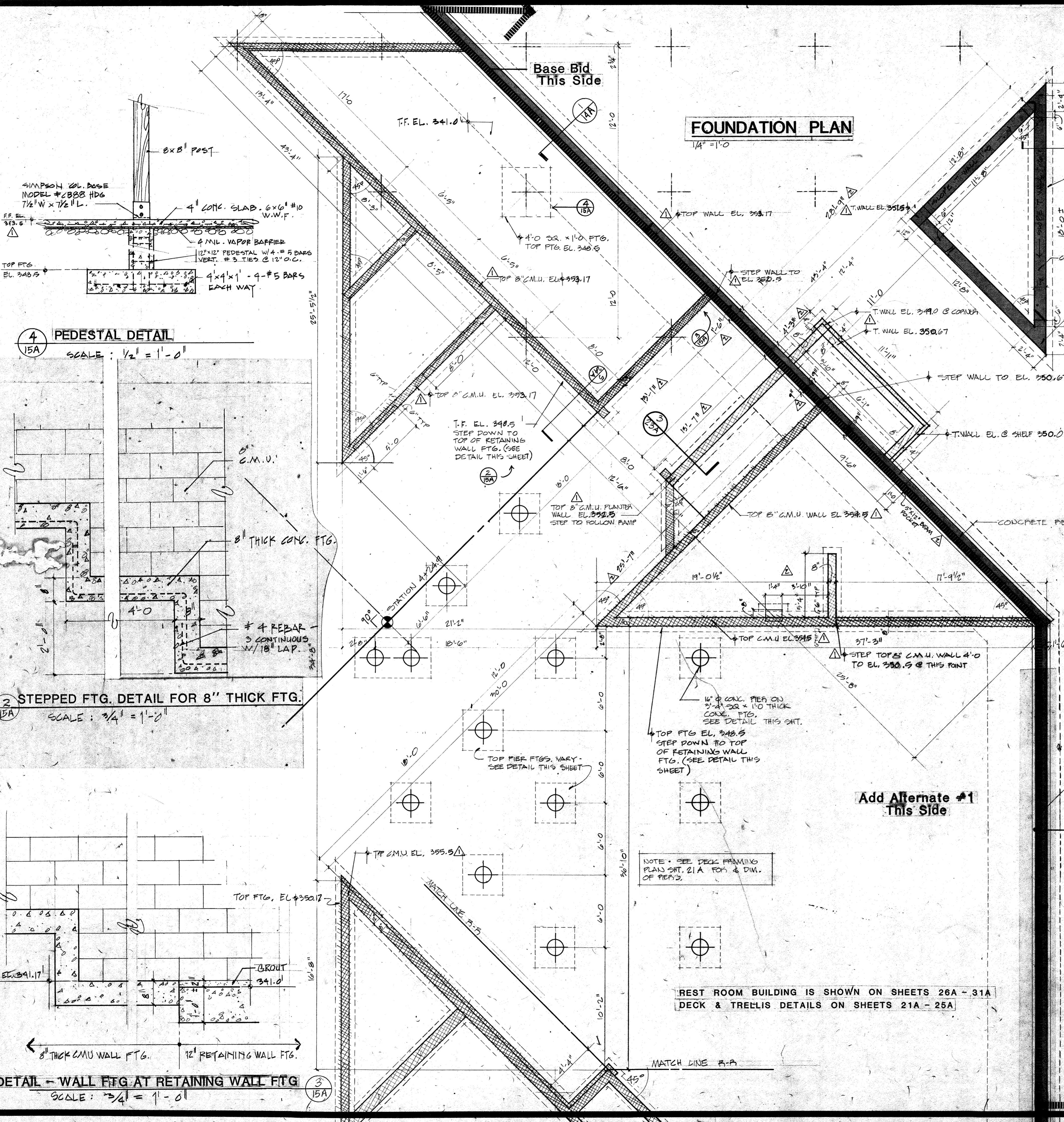
NOTE:
 CONTRACTOR SHALL SOD ALL SWALES AS IDENTIFIED ON SHT. 10-13.

[Signature]

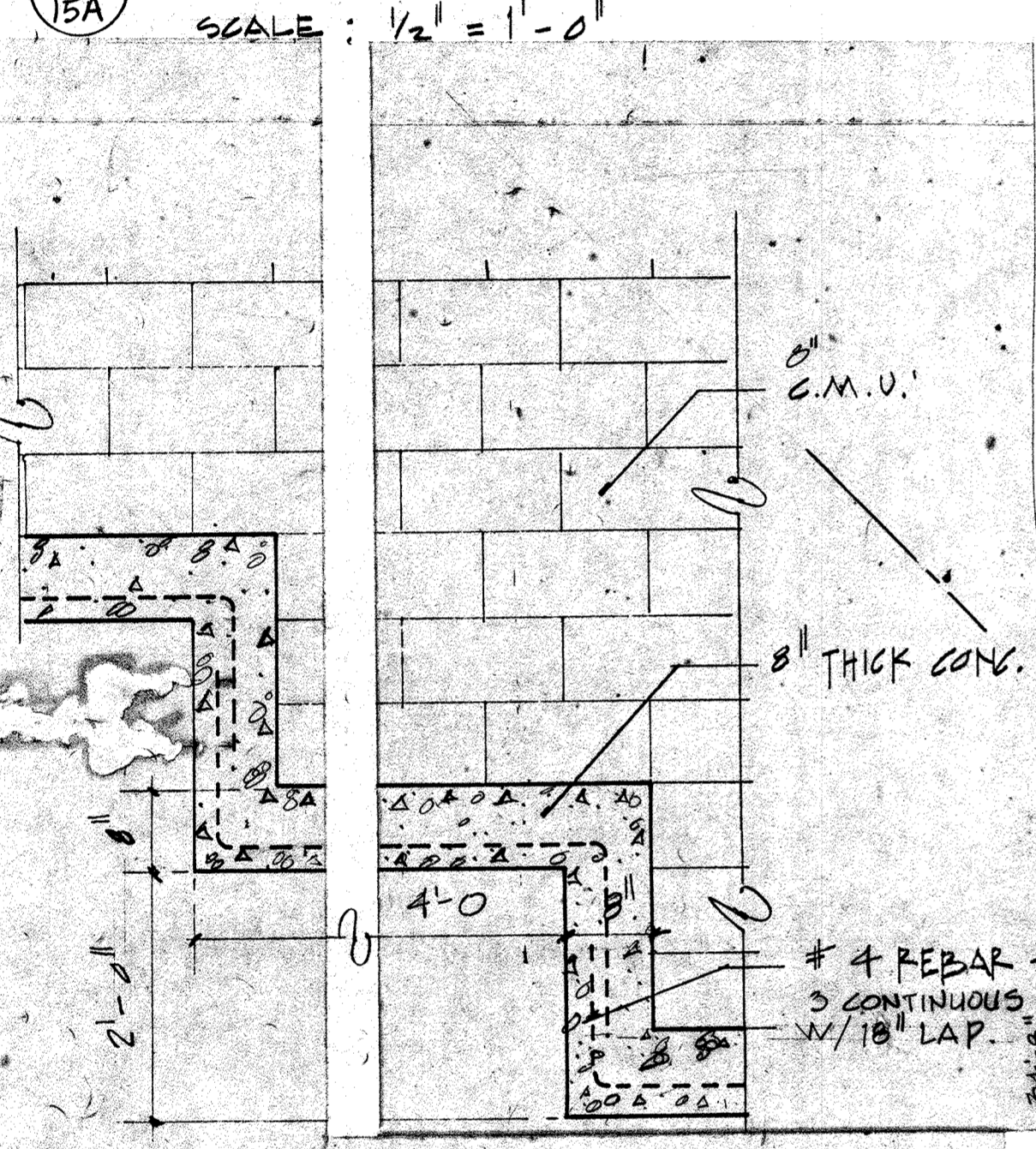
LD R LAND DESIGN / RESEARCH, INC.
 5560 STERRETT PLACE, SUITE 300
 COLUMBIA, MARYLAND
 AREA B-D
 DRAINAGE AREA MAP
 CENTENNIAL PARK
 PHASE FOUR - LAKESHORE SOUTH AREA

DATE	6-1-83	REVISIONS:		SHEET NO.
SCALE	1" = 100'	8-D-04		14
DRAWN				OF 81
CHECKED	10-21-83			

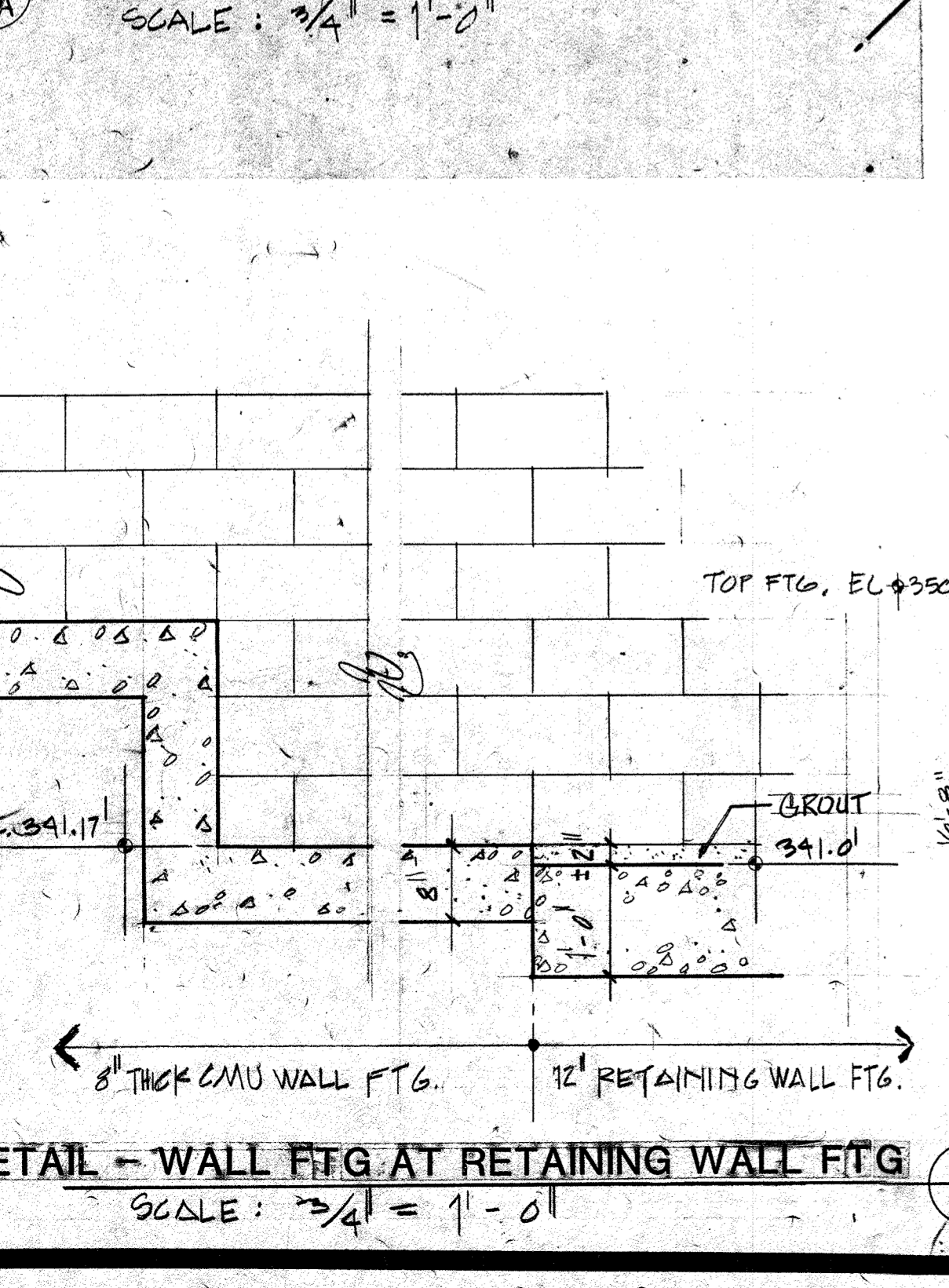
FOUNDATION PLAN
1/4" = 1'-0"



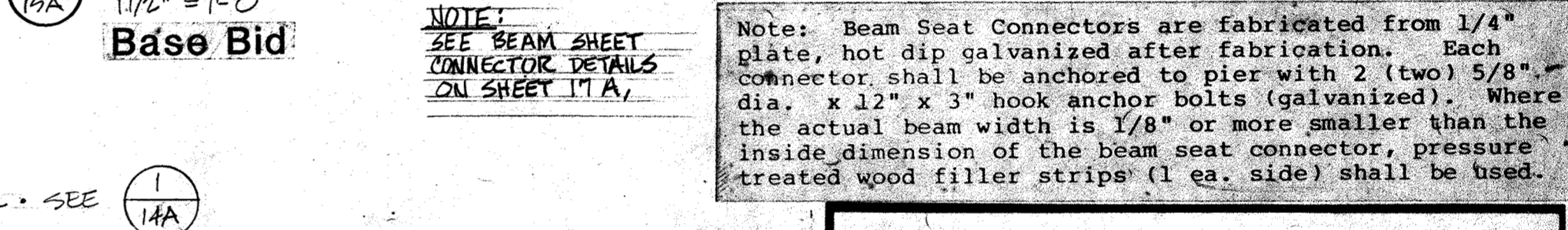
4 PEDESTAL DETAIL
SCALE: 1/2" = 1'-0"



2 STEPPED FTG. DETAIL FOR 8" THICK FTG.
SCALE: 3/4" = 1'-0"



1 DETAIL - CONCRETE PIER/BEAM CONNECTION (typ)
1/2" = 1'-0"



NOTE: FOR WALL & FOOTING ELEVATIONS OF RESTROOM BUILDING LOCATED AT BOAT DOCK CLUSTER, SEE SHEET 15-A. ALL EXPOSED CMU FOUNDATION WALLS TO BE PARSED W/ TINTED MORTAR TO MATCH ROOF COLOR.

APPROVED: For Public Water, Drainage Systems and Roads and Storm	
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>Shirley Nemes</i>	8-28-87
DIRECTOR	DATE
<i>William S. Ray</i>	10-23-87
CHIEF, BUREAU OF ENGINEERING	DATE
APPROVED: For Public Sewerage Systems Water and Private	
HOWARD COUNTY HEALTH DEPARTMENT	
<i>John Bogdan</i>	1-25-87
COUNTY HEALTH OFFICER	DATE
APPROVED: Howard County Office of Planning and Zoning	
<i>Thomas L. Amigo</i>	8-28-87
PLANNING DIRECTOR	DATE
<i>William S. Ray</i>	8-28-87
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION	DATE

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City

Elect. Dist. No. 2, Ho. Co. Tax Map No. 30
Law Docket A-3652

Liber 781 Folio 592, Parcel 345, 63.6 Ac.
Liber 333 Folio 62, Parcel (Partial) 10, 42.9 Ac.
Liber 507 Folio 437, Parcel 278, 61.45 Ac.

Adjacent Property Owners:

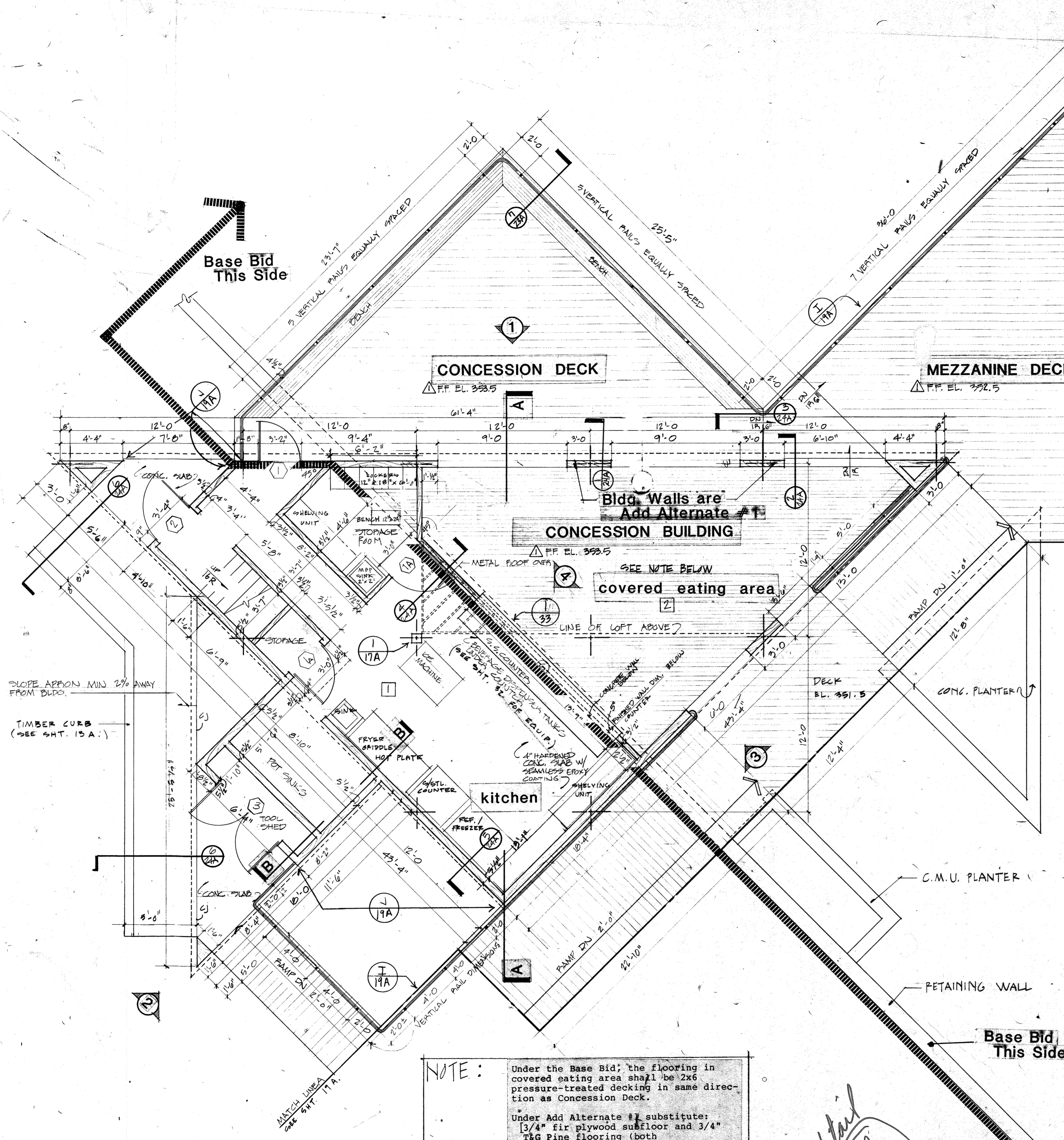
Liber	Folio	Acres	Parcel
Legg, M. R.	875	471	1.01 126
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Saas, J. A.	274	299	2.36 93
Taury, J. P.	611	589	1.23 149
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LD LAND DESIGN / RESEARCH, INC.
5560 STERRETT PLACE, SUITE 300
COLUMBIA, MARYLAND

BOAT DOCK / CONCESSION
CLUSTER FOUNDATION PLAN
CENTENNIAL PARK
PHASE FOUR - LAKESHORE SOUTH AREA

DATE	6-1-83	REVISIONS:		SHEET NO.
SCALE	1/4" = 1'-0"	Δ	5-11-84	15A
DRAWN	R. J. L.	Δ	6-4-84	OF 3-1
CHECKED	JD-21-83			





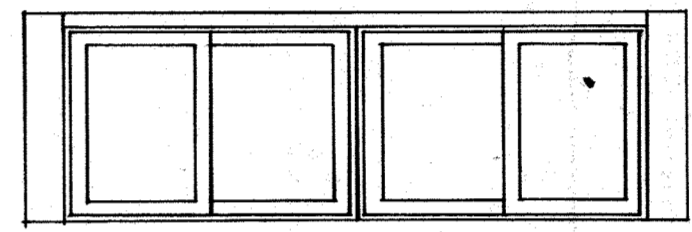
GROUND FLOOR PLAN - CONCESSION BUILDING

NOTE:
 Under the Base Bid, the flooring in covered eating area shall be 2x6 pressure-treated decking in same direction as Concession Deck.
 Under Add Alternate #1 substitute: 3/4" fir plywood subfloor and 3/4" T&G Pine flooring (both pressure-treated) as shown in details 2/24A and 4/24A for 2x6 pressure-treated decking.

WINDOW SCHEDULE

mark	size	qty.	r.o.	w.	x	h.	remarks
1	A-351-2	2		6'-10 1/4"	2'-0 3/8"		(BELOW 2) Δ
2	FIXED GLASS	2		FIELD MEASURED			FLEXIFRAME TO
3	FIXED GLASS	3		FIELD MEASURED			MATCH ROOF PITCH
4	G-54	2		Δ 5'-0 1/2"	4'-0 1/2"		
5	G-64	2		6'-0 1/2"	4'-0 1/2"		
6	SEE SKETCH	2		2-G64 IN 13'-9" x 4'4" OPENING			
7	G-336	1		3'-0 1/2"	3'-6 1/2"		
8	A-41	1		4'-0 1/2"	2'-0 1/2"		(BELOW 9) Δ
9	CP-25	2		4'-0 1/2"	5'-0 3/8"		
10	CP-35	1		6'-0 3/8"	5'-0 3/8"		
11	G-436	2		4'-0 1/2"	3'-6 1/2"		
12	AX-31	1		3'-0 1/2"	3'-5 1/4"		
13							

• ALL WINDOWS TO BE ANDERSON PERMASHIELD TERAPOUNE
 • EXT. WINDOWS TO BE GLAZED W/ TEMPERED, SOLAR BRONZE INSULL. GLASS
 • INT. WINDOWS TO BE SINGLE-GLAZED, W/ TEMPERED GLASS & FRAMES; TO BE PAINTED TO MATCH TERAPOUNE FRAMES



Δ 6 CONCESSION COUNTER WINDOW

3A	FIXED GL.	3	FIELD MEASURED	FLEXIFRAME TO MATCH
3B	FIXED GL.	3	FIELD MEASURED	ROOF PITCH

DOOR SCHEDULE

mark	type	qty.	hardware	threshold	remarks
1	2068	2	LOCK SET	ALUMINUM	W/S
1a	2068	3	LOCK SET	ALUMINUM	W/O W/S
2	3068	2	LOCK SET	ALUMINUM	W/S
3	6068	1	LOCK SET	NONE	W/O W/S
4	1068	1	LOCK SET	NONE	DOOR COVERED EACH SIDE W/ SIDING TO MATCH EXISTING
5	6028	1	HASP	NONE	WOOD DOOR COVERED ONE SIDE TO MATCH WALL SURFACE

DOORS 1, 1A & 2 TO HAVE CLOSERS AS DESCRIBE IN SPECS.
 THIS DOOR IS FOR STORAGE AREA; SEE SHEET 19A.

MATERIALS AND COLOR SELECTION FOR CENTENNIAL PARK BUILDINGS

ROOF-TCS/Terne-coated stainless steel by Follansbee Steel Corp. or approved equal.

SIDING-1x6 rough sawn cedar shiplap #2 or better stained with "Birchwood" transparent stain, 77-660 Alkyd oil by Pittsburgh Paint.

METAL RAILING & METAL DOORS-"Tile Red" ready mixed gloss with rust inhibiting primer by Pittsburgh Paint.

Add Alternate #1

APPROVED: For Public Water, Drainage Systems and Roads and Storm
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Director: *Walter J. ...* 8-28-84
 DATE

APPROVED: For Public Water and Private Sewerage Systems
 HOWARD COUNTY HEALTH DEPARTMENT
 County Health Officer: *John ...* 1-27-84
 DATE

APPROVED: Howard County Office of Planning and Zoning
 Planning Director: *Donald ...* 8-29-84
 DATE
 Chief, Division of Land Development and Zoning Administration: *...* 8-29-84
 DATE

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City
 Elect. Dist. No. 2, Ho. Co. Tax Map No. 30
 Law Docket A-3652
 Liber 781 Folio 592, Parcel 345, 63.6 Ac.
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 Adjacent Property Owners:

Liber	Folio	Acres	Parcel
Legg, M. R.	875	471	1.01 126
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APPROVED
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 2-17-84



LD LAND DESIGN / RESEARCH, INC.
 5560 STERRETT PLACE, SUITE 300
 COLUMBIA, MARYLAND

BOAT DOCK / CONCESSION
 CLUSTER GROUND FLOOR PLAN

CENTENNIAL PARK
 PHASE FOUR - LAKESHORE SOUTH AREA

DATE	SCALE	DRAWN	CHECKED	REVISIONS:	SHEET NO.
6-1-83	1/4" = 1'-0"	M.B.H.	10-21-83	5-11-84 8-20-84	16A

SDP-84-165

GENERAL NOTES:

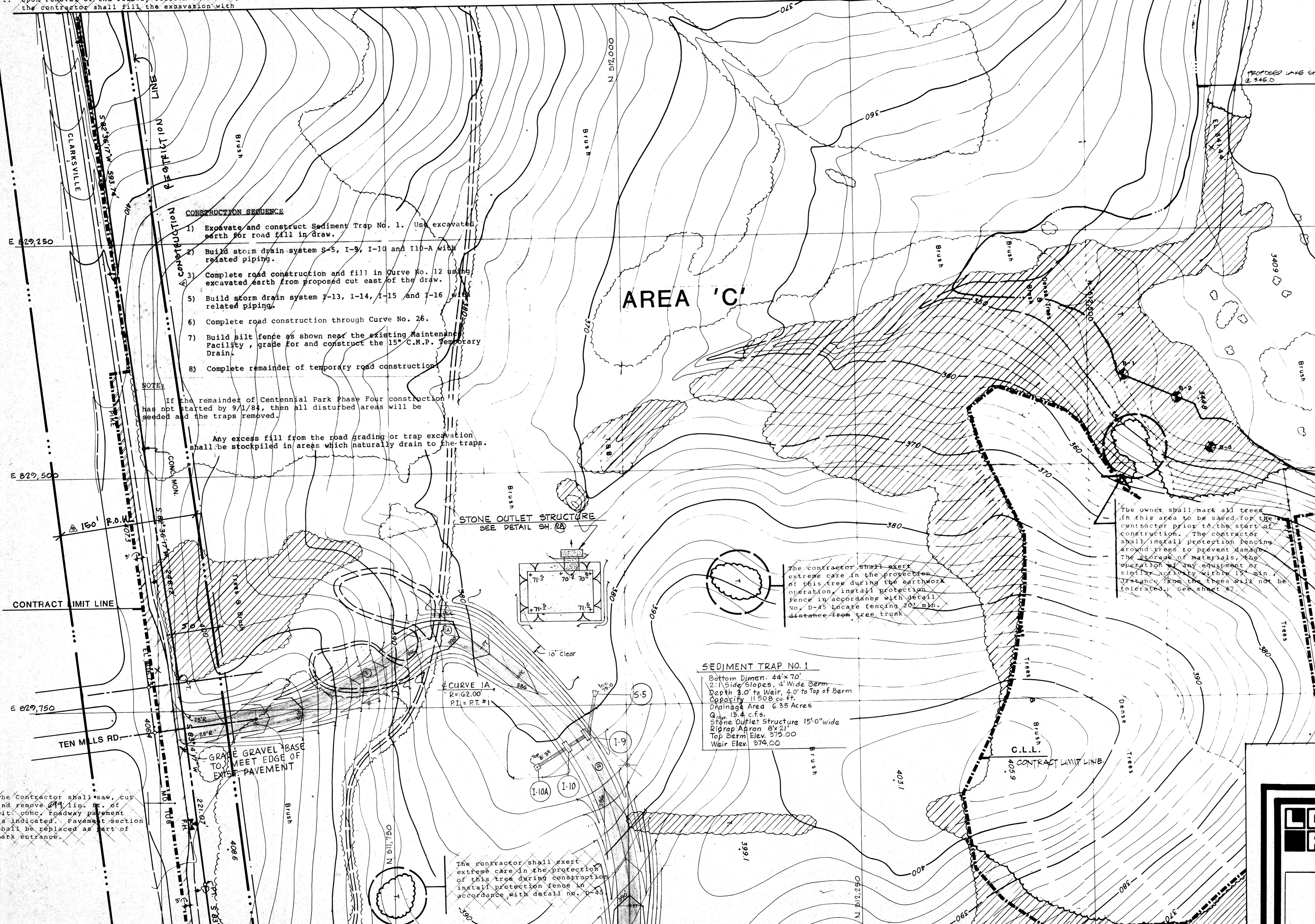
- The contractor shall be responsible for the erection of all required construction sign, barriers, and lights, in accordance with the manual of uniform traffic control devices (M.U.T.C.D.) latest edition, and the requirements of the Maryland Department of Transportation. The contractor shall also be responsible for the hazard identification, flagman, traffic cone application as needed or requested by the owner.
- Upon removal of the roadway section indicated, the contractor shall fill the excavation with

- (cont.) the required depth of CR-6 to meet the remaining bit. conc. pavement in line and grade. The contractor shall check the excavation daily and insure that the proper grade is maintained.

NOTES

- FINISHED GRADE CONTOURS SHOWN ARE FOR THE TEMPORARY GRAVEL ROAD AND INDICATE ELEVATIONS 0.50 FT. BELOW THE ESTABLISHED PROPOSED GRADES SHOWN ON SHEETS 19 AND 21.
- CENTERLINE GEOMETRY FOR THE TEMPORARY GRAVEL ROAD IS THE SAME AS THE PROPOSED ROAD. SEE SHEETS 8 AND 9.
- BUILD PERMANENT STORM DRAIN STRUCTURES AND PIPING AS SHOWN. FOR DETAILS SEE SHEETS 25, 26 & 27. INLETS I-10A AND I-10 WILL BE CONSTRUCTED TO PICK UP SURFACE DRAINAGE FROM THE TEMPORARY GRAVEL ROAD. ALL OTHER INLETS SHOWN WILL BE BUILT AND SET AT THE ELEVATIONS GIVEN FOR THE PERMANENT ROAD.

MATCH LINE SHEET NO.3 AREA 'B'



CONSTRUCTION SEQUENCE

- Excavate and construct Sediment Trap No. 1. Use excavated earth for road fill in draw.
- Build storm drain system S-5, I-9, I-10 and I-10-A with related piping.
- Complete road construction and fill in Curve No. 12 using excavated earth from proposed cut east of the draw.
- Build storm drain system I-13, I-14, I-15 and I-16 with related piping.
- Complete road construction through Curve No. 26.
- Build silt fence as shown near the existing Maintenance Facility, grade for and construct the 15' C.M.P. Temporary Drain.
- Complete remainder of temporary road construction.

NOTE:

If the remainder of Centennial Park Phase Four construction has not started by 9/1/84, then all disturbed areas will be seeded and the traps removed.

Any excess fill from the road grading or trap excavation shall be stockpiled in areas which naturally drain to the traps.

SEDIMENT TRAP NO. 1

Bottom Dimen: 44'x70'
 2:1 Side Slopes, 4" Wide Berm
 Depth 3.0' to Weir, 4.0' to Top of Berm
 Capacity 11,508 cu. ft.
 Drainage Area 6.35 Acres
 Q_{avg} 13.4 c.f.s.
 Stone Outlet Structure 15'-0" wide
 Right Apron 8'x21'
 Top Berm Elev. 375.00
 Weir Elev. 374.00

The contractor shall exert extreme care in the protection of this tree during construction. install protection fence in accordance with detail No. D-45 Locare fencing 30' min. distance from tree trunk

The owner shall mark all trees in this area to be saved for the contractor prior to the start of construction. The contractor shall install protection fencing around trees to prevent damage. The storage of materials, the operation of any equipment or similar activity within 15' min. distance from the trees shall not be tolerated. See sheet 47.

APPROVED: For Public Water, and Storm Drainage Systems and Roads
 HOWARD COUNTY DEPT. OF PUBLIC WORKS
 Director: [Signature] DATE: 8-21-84
 Chief, Bureau of Engineering: [Signature] DATE: 10-28-83

APPROVED: For Public and Private Sewerage Systems
 HOWARD COUNTY HEALTH DEPARTMENT
 County Health Officer: [Signature] DATE: 1-25-84

APPROVED: Howard County Office of Planning and Zoning
 Planning Director: [Signature] DATE: 8-2
 Chief, Division of Land Development and Zoning Administration: [Signature] DATE: [Signature]

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City
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	383	604	1.16 94

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 Approved: [Signature] Date: 7-15-83
 Howard S.C.D.

Reviewed for: [Signature] Name: [Signature] Date: 7-15-83
 and meets Technical Requirements
 Signature: [Signature]
 U.S. Soil Conservation Service

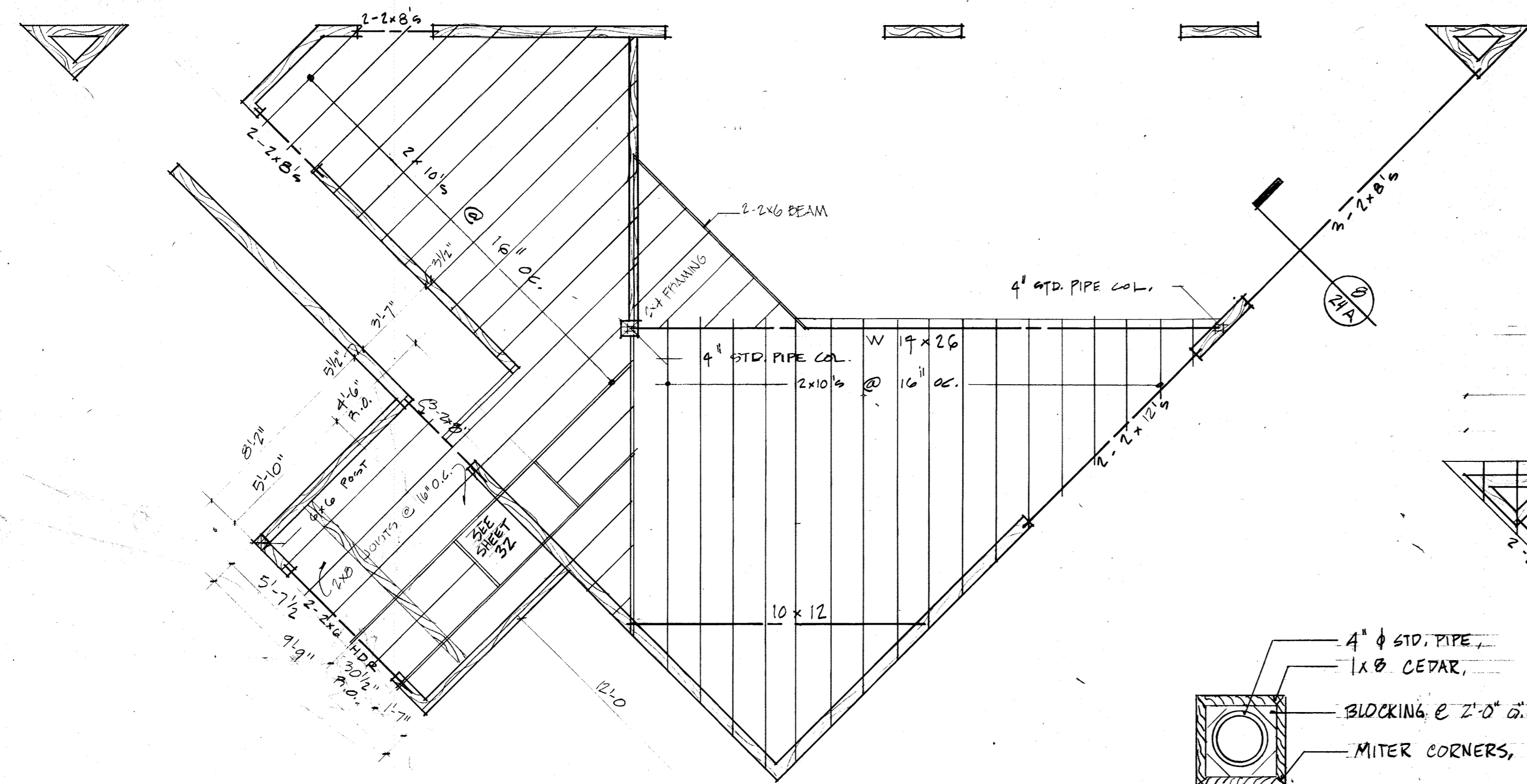
APPROVED
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE: 2-17-84

NOTE:
 LIMIT OF ASBESTE GRADING SHALL BE TO THE RIGHT AND BOTTOM OF THE ROAD AND SHALL BE TO THE RIGHT AND BOTTOM OF THE ROAD AND SHALL BE TO THE RIGHT AND BOTTOM OF THE ROAD

LD R LAND DESIGN / RESEARCH, INC.
 5560 STERRETT PLACE, SUITE 300
 COLUMBIA, MARYLAND

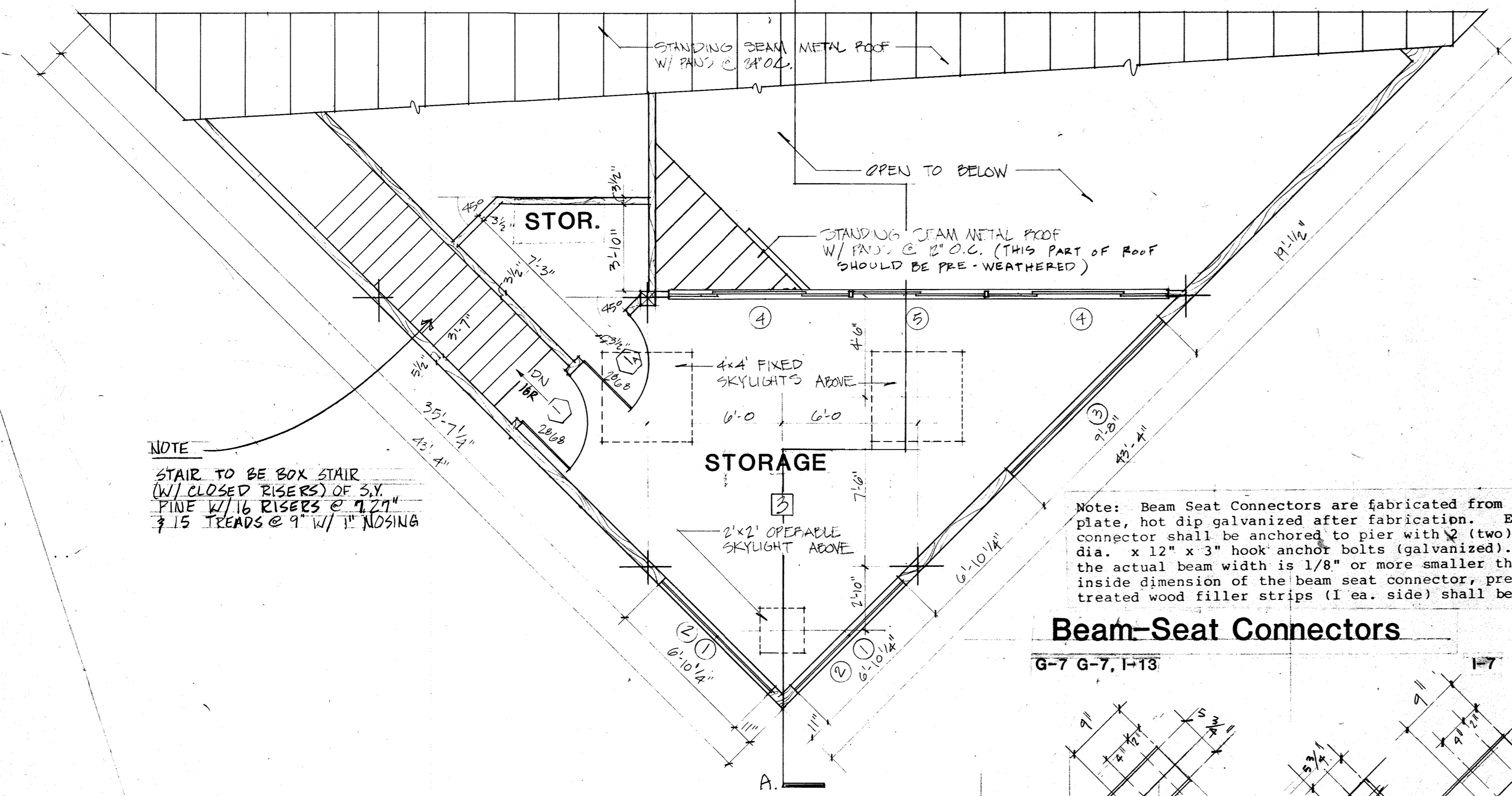
AREA C TEMPORARY ROAD TO MAINTENANCE FACILITY
 SEDIMENT AND EROSION CONTROL
CENTENNIAL PARK
 PHASE FOUR - LAKESHORE SOUTH AREA

DATE	6-1-83	REVISIONS:		SHEET NO.
SCALE	1" = 50' 0"	Δ B	20-84	17
DRAWN	NHC			OF 81
CHECKED	10-21-83			



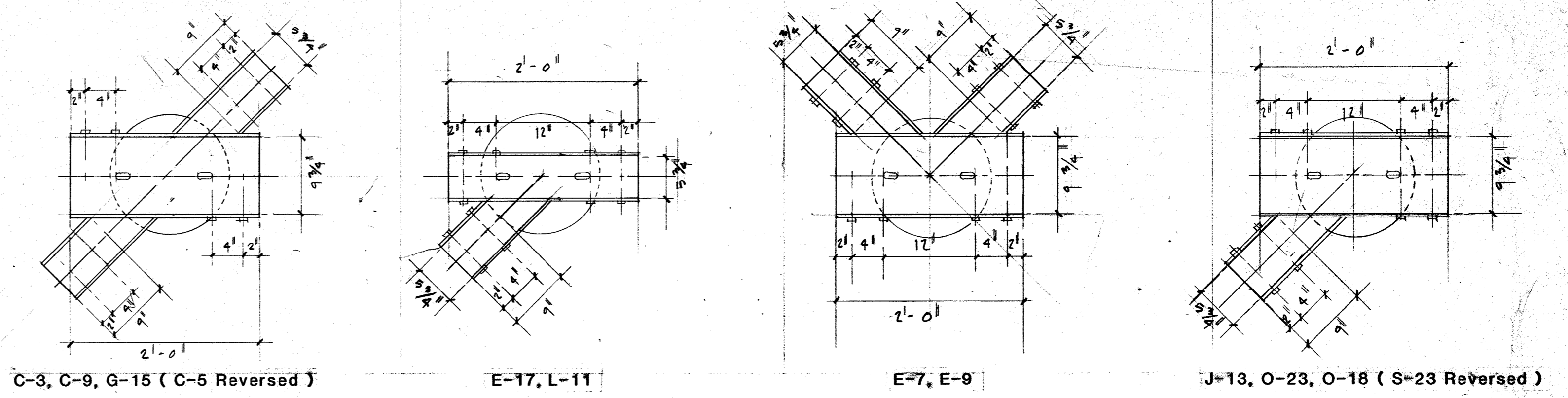
SECOND FLOOR FRAMING PLAN - CONCESSION BLDG.

1/4" = 1'-0"



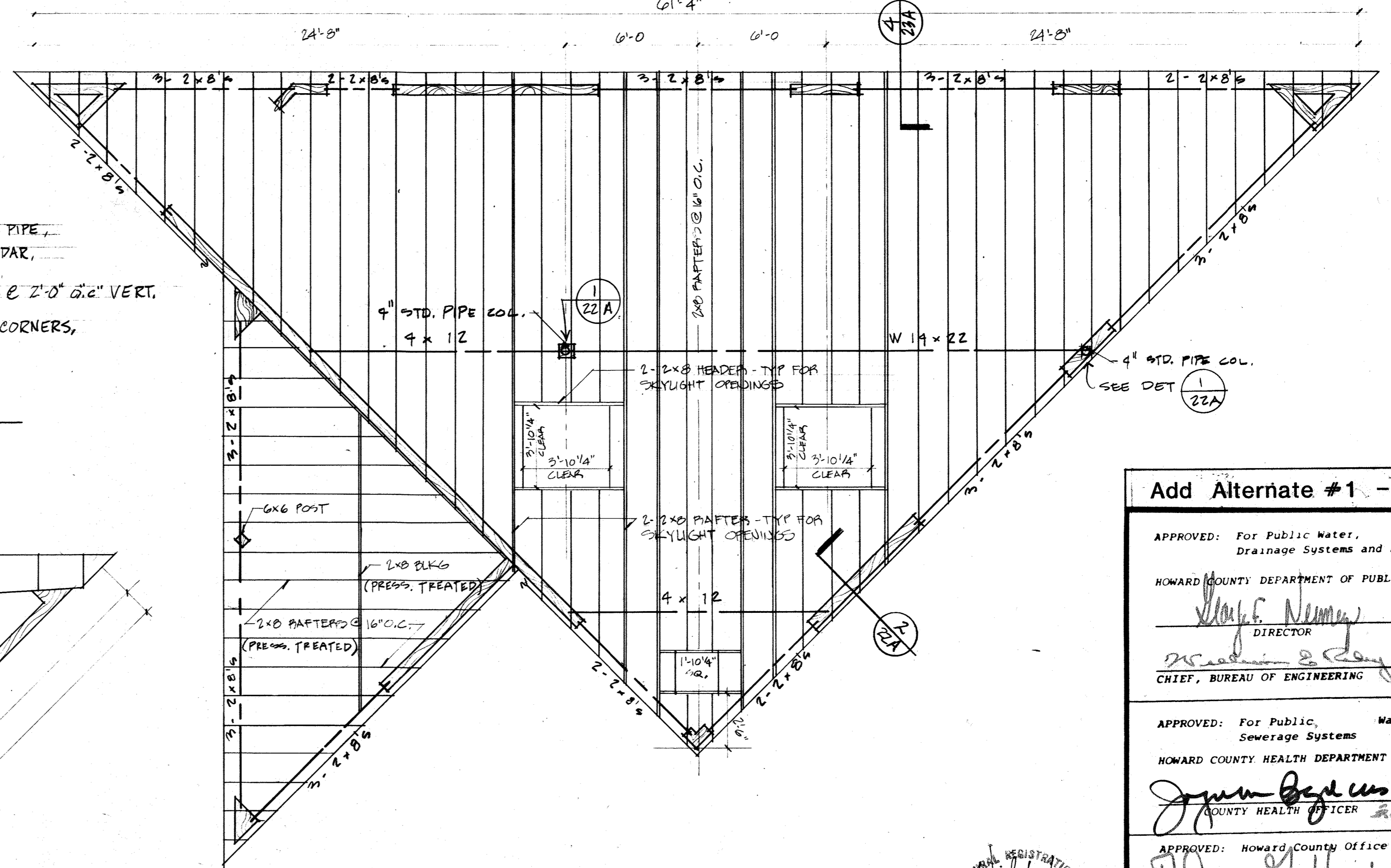
SECOND FLOOR PLAN - CONCESSION BLDG.

1/4" = 1'-0"



Beam-Seat Connectors

NUMBERS CORRESPOND TO LAYOUT GRID ON SHEET 21A
61' 4"



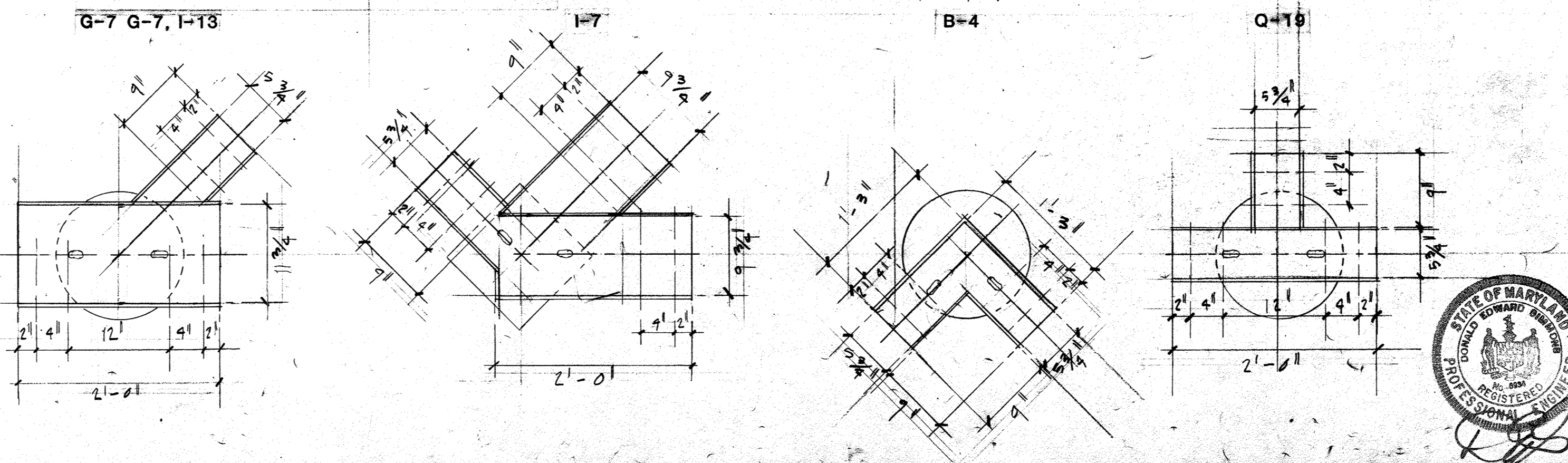
ROOF FRAMING PLAN - CONCESSION BLDG.

1/4" = 1'-0"

Note: Beam Seat Connectors are fabricated from 1/4" plate, hot dip galvanized after fabrication. Each connector shall be anchored to pier with two (2) 5/8" dia. x 12" x 3" hook anchor bolts (galvanized). Where the actual beam width is 1/8" or more smaller than the inside dimension of the beam seat connector, pressure treated wood filler strips (1 ea. side) shall be used.

Beam-Seat Connectors

SLOTTED HOLES ARE 1/16" x 1/16" TYP.

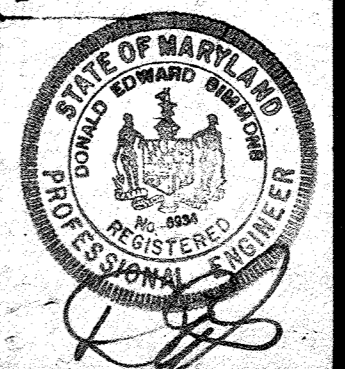


Add Alternate #1 - Entire Sheet

APPROVED: For Public Water, Drainage Systems and Roads	and Storm
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>Wayne Nemy</i>	8-18-84
DIRECTOR	DATE
<i>William E. Ray</i>	10-28-83
CHIEF, BUREAU OF ENGINEERING	DATE
APPROVED: For Public Water and Private Sewerage Systems	
HOWARD COUNTY HEALTH DEPARTMENT	
<i>John Beales</i>	1-25-84
COUNTY HEALTH OFFICER	DATE
APPROVED: Howard County Office of Planning and Zoning	
<i>Thomas L. Harvis</i>	8-29-84
PLANNING DIRECTOR	DATE
<i>William E. Ray</i>	8-29-84
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION	DATE

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City
Elect. Dist. No. 2, Ho. Co. Tax Map No. 30
Law Docket A-3652
Liber 781 Folio 592, Parcel 345, 63.6 Ac.
Liber 333 Folio 62, Parcel (Partial) 10, 42.9 Ac.
Liber 507 Folio 437, Parcel 278, 61.45 Ac.
Adjacent Property Owners:

Liber	Folio	Acres	Parcel
Legg, M. R.	875	471	1.01 126
Zaiser, W. J.	259	105	7.08 92
Saas, J. A.	274	299	2.36 93
Taury, J. P.	611	589	1.23 149
	383	604	1.16 94



LD LAND DESIGN / RESEARCH, INC.
5560 STERRETT PLACE, SUITE 300
COLUMBIA, MARYLAND

BOAT DOCK / CONCESSION

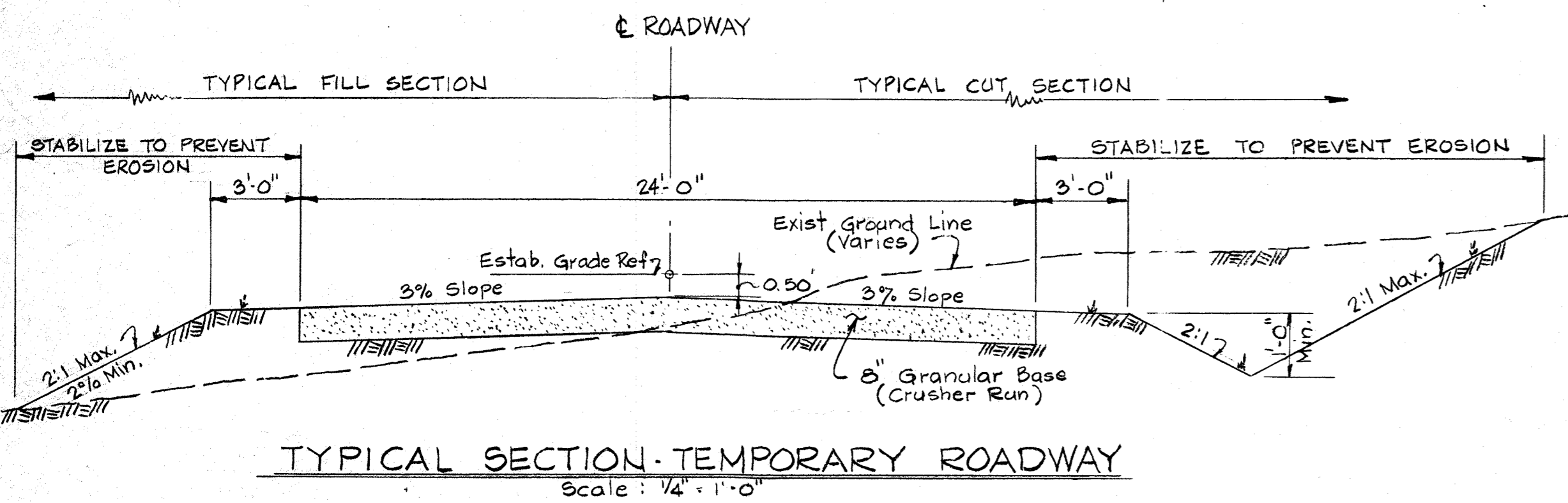
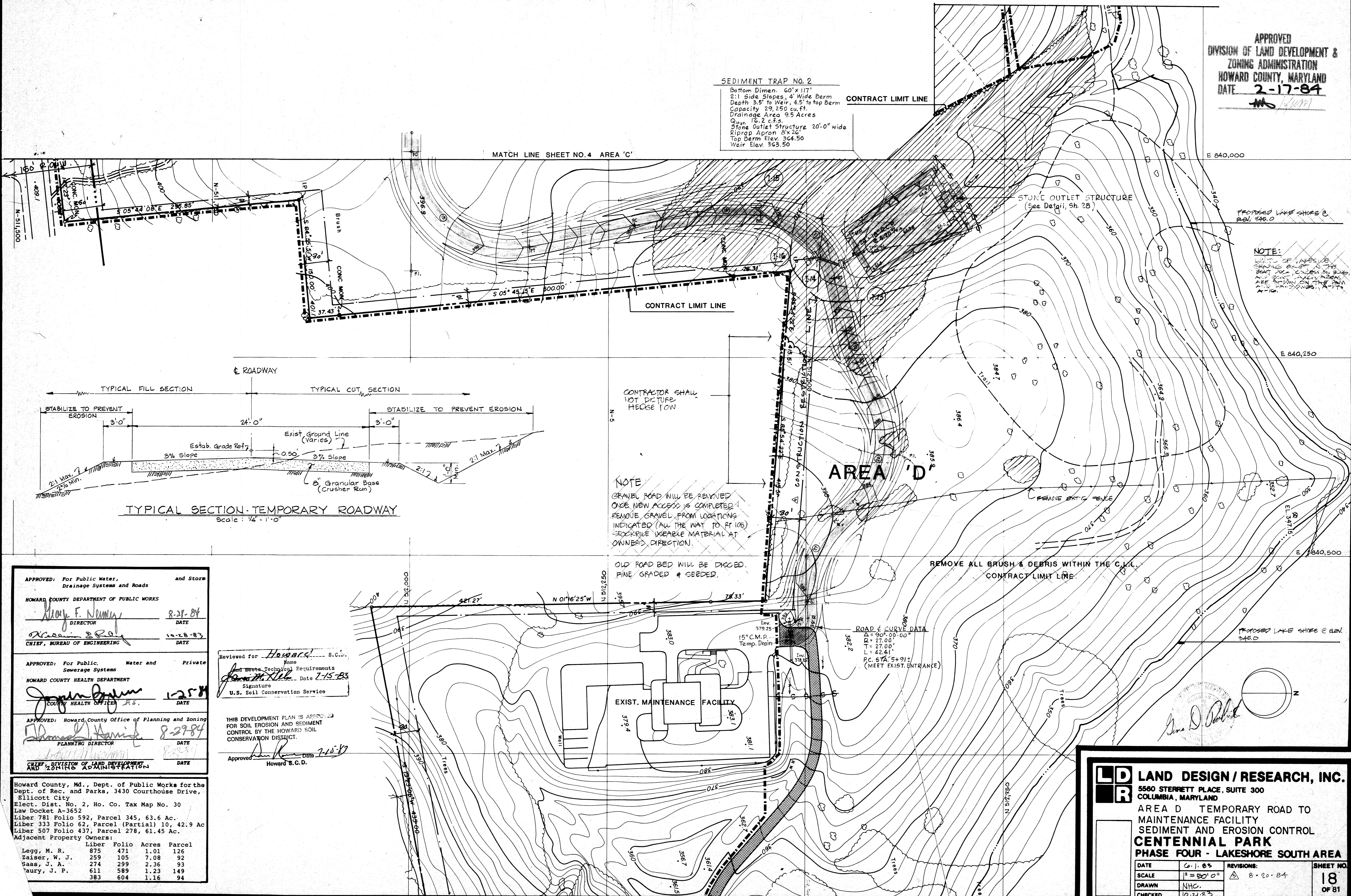
CLUSTER 2nd Fl./Framing & Roof
CENTENNIAL PARK Plans
PHASE FOUR - LAKESHORE SOUTH AREA

DATE	6-1-85	REVISIONS:	SHEET NO.
SCALE	1/4" = 1'-0"		17A
DRAWN	M.B.H.		OF 81
CHECKED	10-21-83		

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 2-17-84

SEDIMENT TRAP NO. 2
Bottom Dimen. 60' x 117'
2:1 Side Slopes, 4' Wide Berm
Depth 3.5' to Weir, 4.5' to top Berm
Capacity 29,250 cu.ft.
Drainage Area 9.5 Acres
Q_{max} 16.2 c.f.s.
Stone Outlet Structure 20'-0" wide
Riprap Apron 8' x 26'
Top Berm Elev. 364.50
Weir Elev. 363.50

NOTE:
LIMITS OF LAKESHORE
SHORELINE SHOWN AS THE
BAY DOCK ACCESS ON BLUE
AND BROWN ONLY AREAS
ARE SHOWN ON THE PLAN
AND SHOWN AS THE
1:10:1



CONTRACTOR SHALL
NOT DISTURB
HEDGE TOW

NOTE
GRAVEL ROAD WILL BE REMOVED
ONCE NEW ACCESS IS COMPLETED
REMOVE GRAVEL FROM LOCATIONS
INDICATED (ALL THE WAY TO PT 106)
STOCKPILE USEABLE MATERIAL AT
OWNER'S DIRECTION.

OLD ROAD BED WILL BE DICED,
FINE GRADED & SEED.

ROAD & CURVE DATA
Δ = 90° 00' 00"
R = 27.00'
T = 27.00'
L = 42.41'
P.C. STA. 5+91.2
(MEET EXIST. ENTRANCE)

APPROVED: For Public Water, and Storm
Drainage Systems and Roads
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Walter F. Nunnally 8-21-84
DIRECTOR DATE
William S. Ray 10-28-83
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: For Public, Water and Private
Sewerage Systems
HOWARD COUNTY HEALTH DEPARTMENT
John B. Gorman 1-25-84
COUNTY HEALTH OFFICER DATE

APPROVED: Howard County Office of Planning and Zoning
Thomas J. Harris 8-29-84
PLANNING DIRECTOR DATE
CHIEF, DIVISION OF LAND DEVELOPMENT
AND ZONING ADMINISTRATION DATE

Reviewed for *Howard S.C.D.*
Name
and meets Technical Requirements
James M. Kelly Date 7-15-83
Signature
U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED
FOR SOIL EROSION AND SEDIMENT
CONTROL BY THE HOWARD SOIL
CONSERVATION DISTRICT.
Approved *Howard S.C.D.* Date 7-15-83

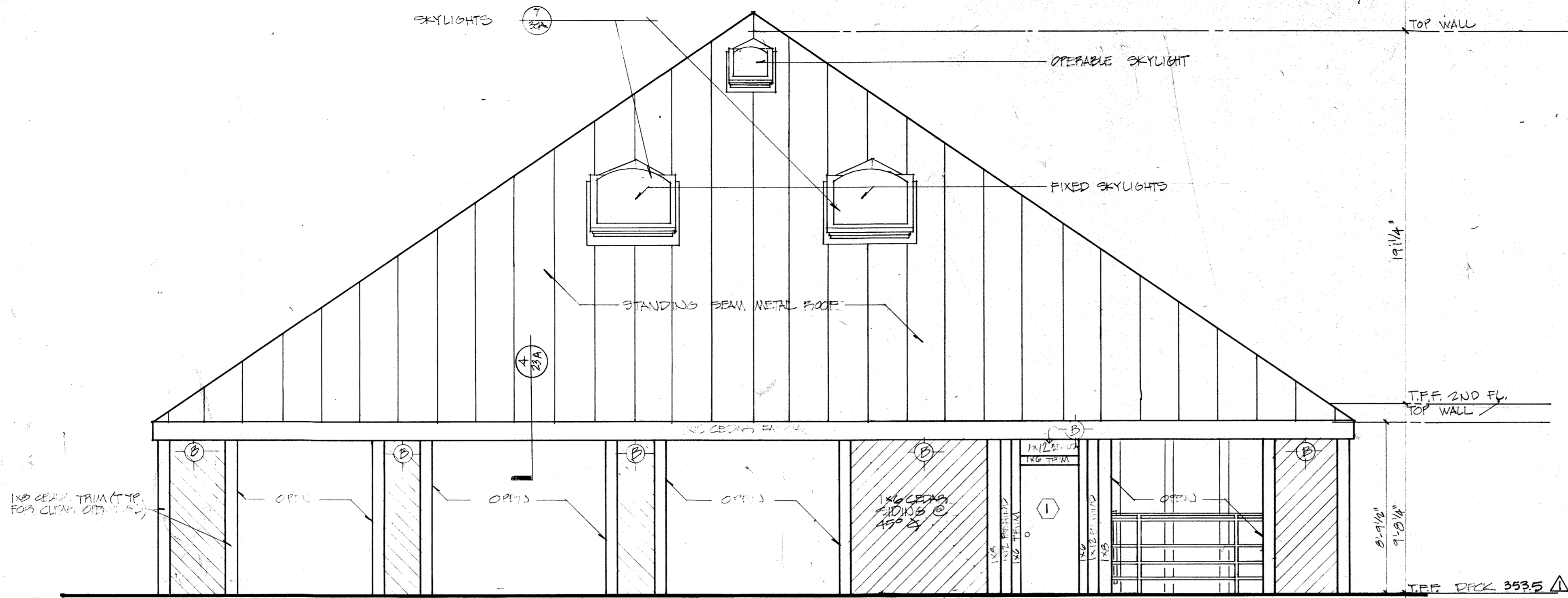
Howard County, Md., Dept. of Public Works for the
Dept. of Rec. and Parks, 3430 Courthouse Drive,
Ellicott City
Elect. Dist. No. 2, Ho. Co. Tax Map No. 30
Law Docket A-3652
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Saas, J. A.	274 299	2.36	93
Saury, J. P.	611 589	1.23	149
	383 604	1.16	94

LD LAND DESIGN / RESEARCH, INC.
5560 STERRETT PLACE, SUITE 300
COLUMBIA, MARYLAND

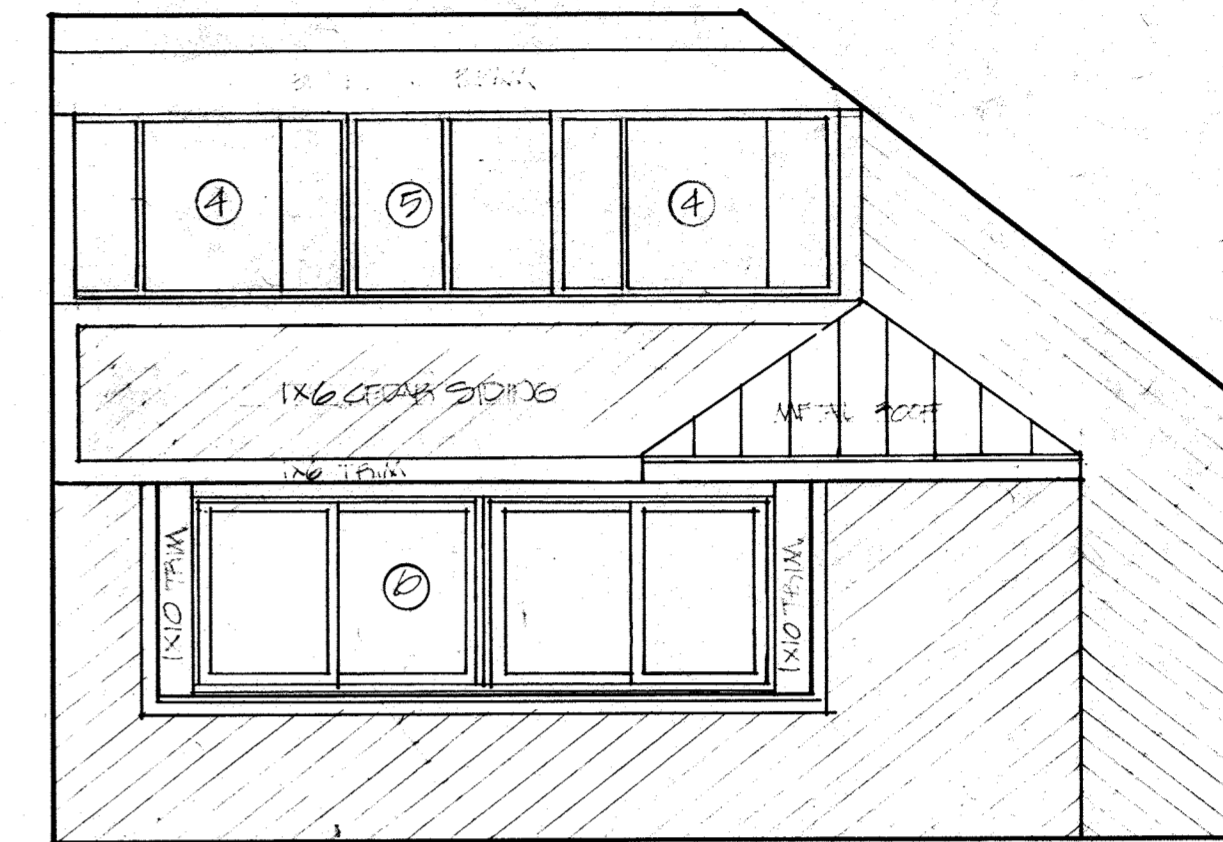
AREA D TEMPORARY ROAD TO
MAINTENANCE FACILITY
SEDIMENT AND EROSION CONTROL
CENTENNIAL PARK
PHASE FOUR - LAKESHORE SOUTH AREA

DATE	6-1-83	REVISIONS:	8-20-84	SHEET NO.	18
SCALE	1" = 80' 0"				OF 81
DRAWN	NHC				
CHECKED	10-21-83				



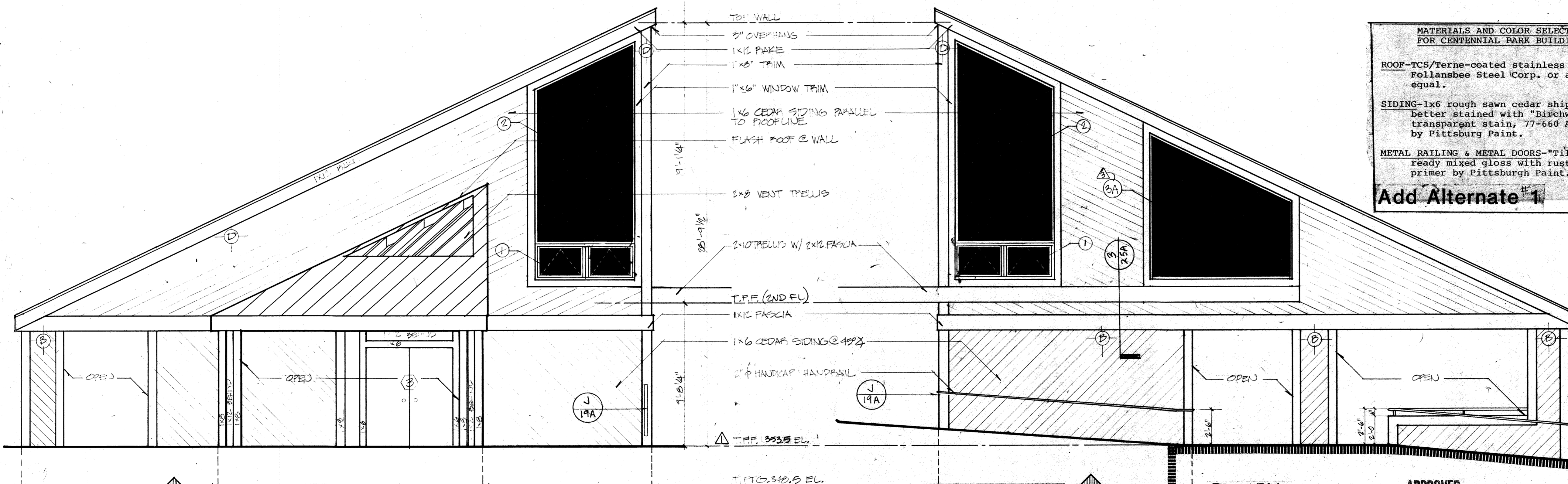
ELEVATION 1

Add Alternate #1



INTERIOR ELEVATION 4

Add Alternate #1



ELEVATION 2

Add Alternate #1

ELEVATION 3

Add Alternate #1
This Side

MATERIALS AND COLOR SELECTION FOR CENTENNIAL PARK BUILDINGS

ROOF-TCS/Terne-coated stainless steel by Follansbee Steel Corp. or approved equal.

SIDING-1x6 rough sawn cedar shiplap #2 or better stained with "Birchwood" transparent stain, 77-660 Alkyd Oil by Pittsburgh Paint.

METAL RAILING & METAL DOORS-"Tile Red" ready mixed gloss with rust inhibiting primer by Pittsburgh Paint.

Add Alternate #1

APPROVED: For Public Water, Drainage Systems and Roads
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Director: *John F. Neuman* 8-28-84
 DATE

APPROVED: For Public Water and Private Sewerage Systems
 HOWARD COUNTY HEALTH DEPARTMENT
 County Health Officer: *John Doyle* 1-25-84
 DATE

APPROVED: Howard County Office of Planning and Zoning
 Planning Director: *Thomas H. Harris* 8-29-84
 DATE

CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City, Md.

Elect. Dist. No. 2, Ho. Co. Tax Map No. 30
 Law Docket A-3652

Liber 781 Folio 592, Parcel 345, 63.6 Ac.
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APPROVED
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 2-17-84

LD LAND DESIGN / RESEARCH, INC.
 5560 STERRETT PLACE, SUITE 300
 COLUMBIA, MARYLAND

BOAT DOCK / CONCESSION

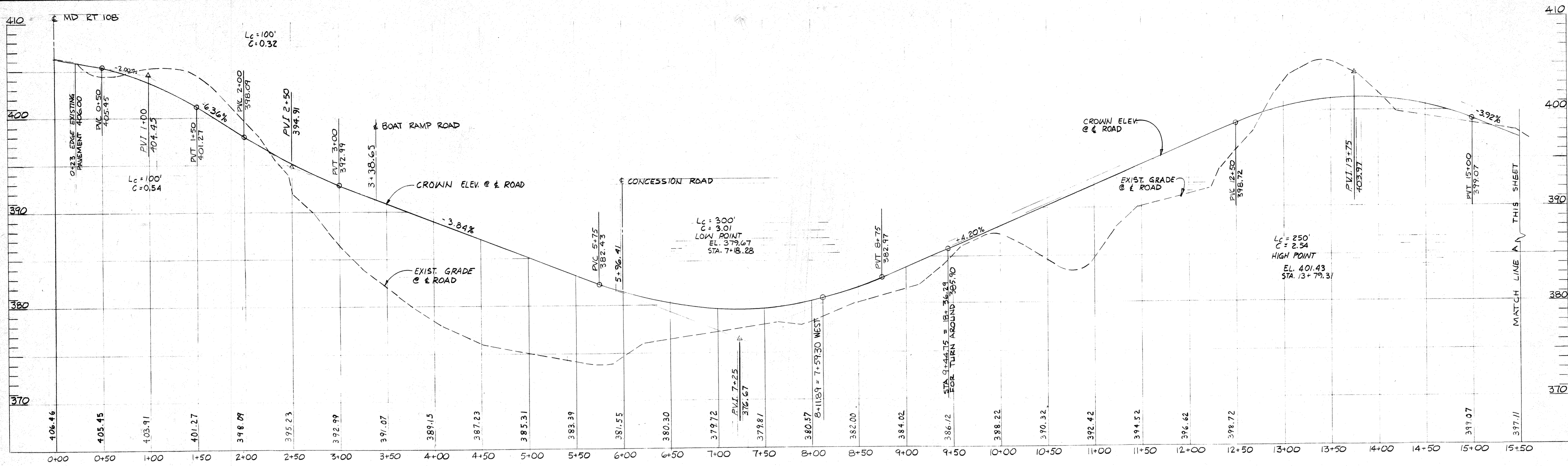
CLUSTER ELEVATIONS

CENTENNIAL PARK
 PHASE FOUR - LAKESHORE SOUTH AREA

DATE	REVISIONS:	SHEET NO.
8-1-83		18A
5-11-84		OF 81
8-10-84		

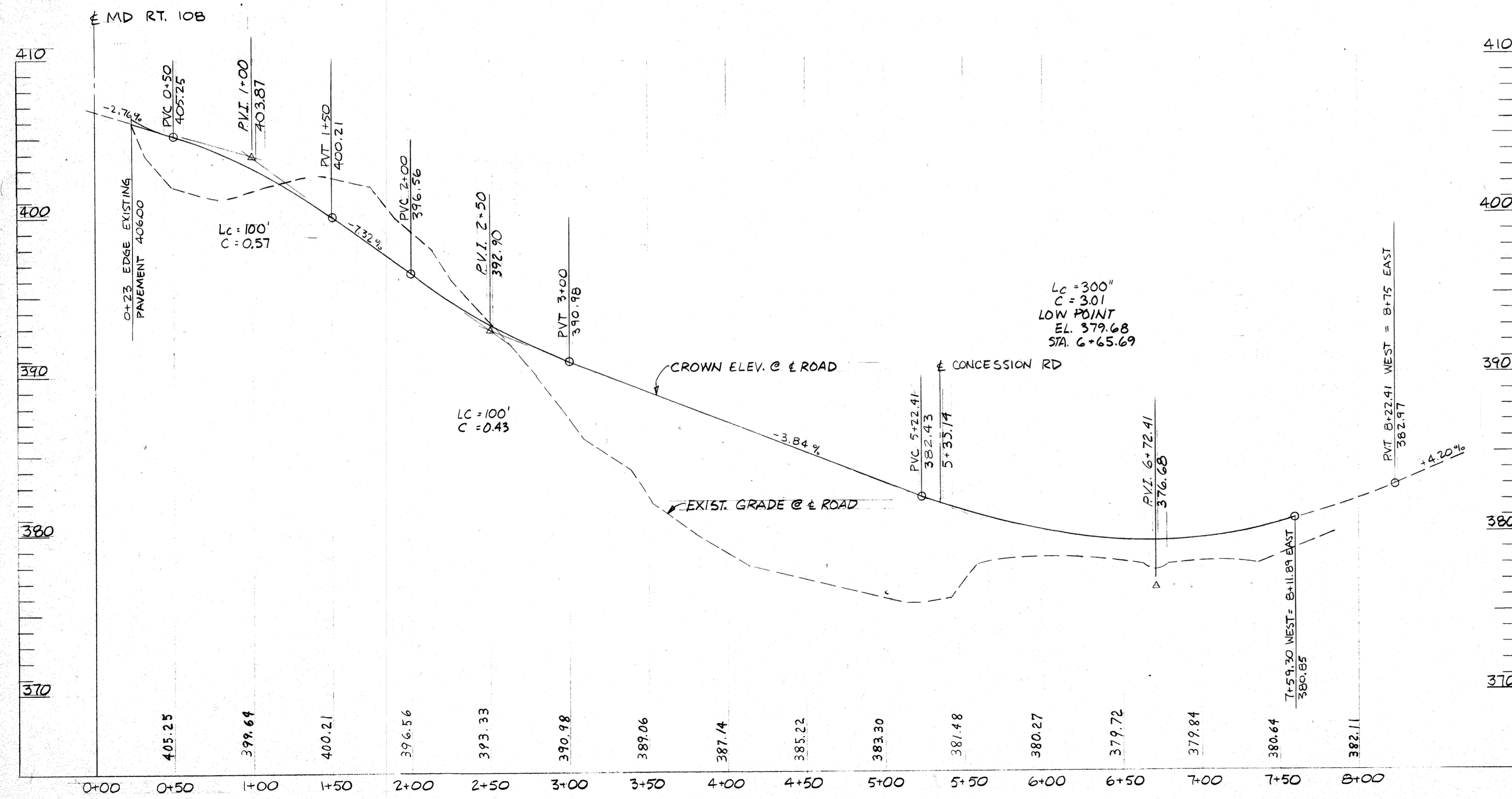
SCALE: m.d.h.
 DRAWN: m.d.h.
 CHECKED: 10-21-83





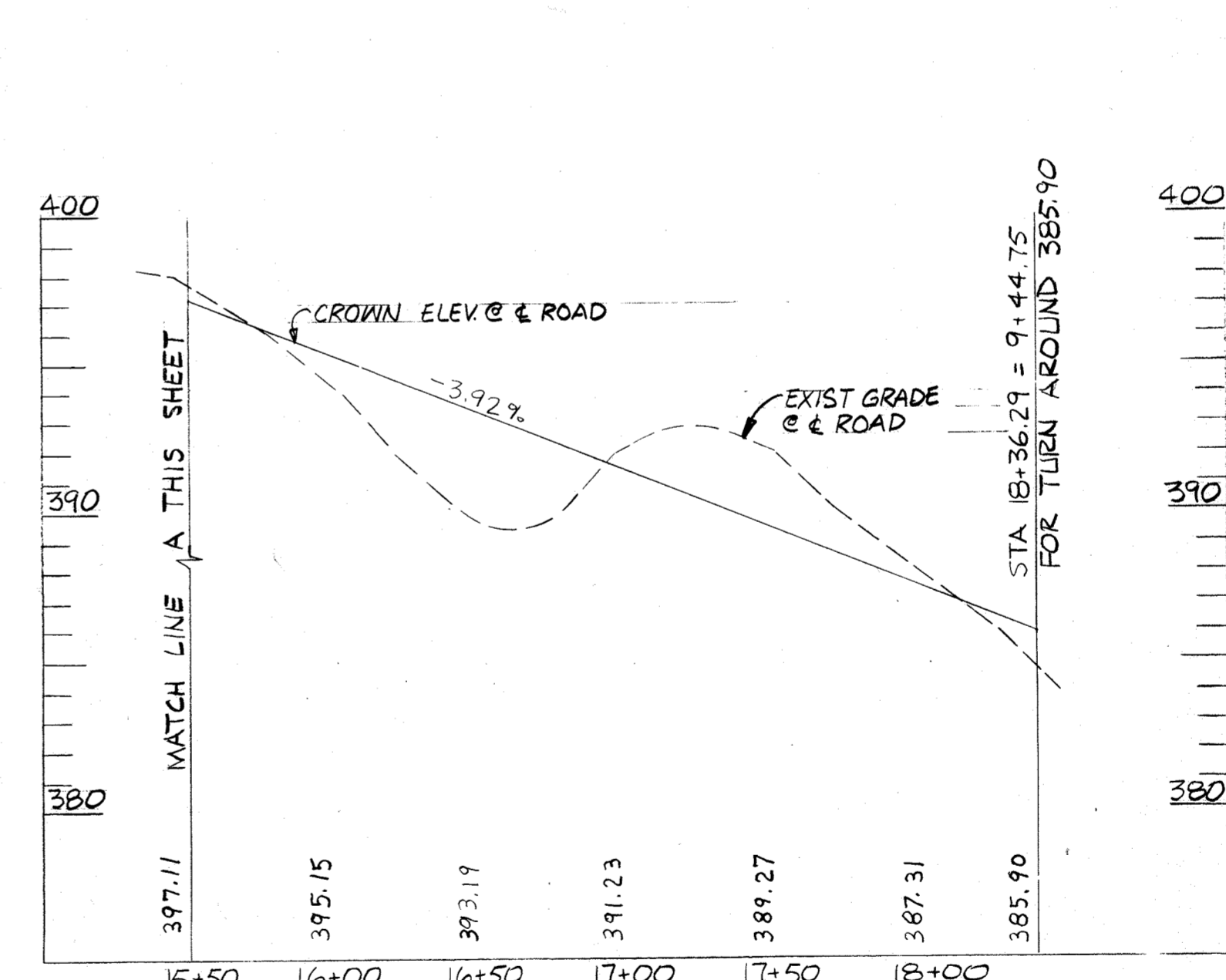
ENTRY ROAD - EAST LANE

HORIZ: 1" = 50'
VERT: 1" = 5'



ENTRY ROAD - WEST LANE

HORIZ: 1" = 50'
VERT: 1" = 5'



ENTRY ROAD - EAST LANE (CONT'D)

HORIZ: 1" = 50'
VERT: 1" = 5'

APPROVED: For Public Water, Drainage Systems and Roads	and Storm
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>Debra E. Neumy</i> DIRECTOR	8-28-84 DATE
<i>William B. Rong</i> CHIEF, BUREAU OF ENGINEERING	10-28-83 DATE
APPROVED: For Public Water and Private Sewerage Systems	
HOWARD COUNTY HEALTH DEPARTMENT	
<i>Joseph G. Jones</i> COUNTY HEALTH OFFICER	1-25-84 DATE
APPROVED: Howard County Office of Planning and Zoning	
<i>Thomas L. Harris</i> PLANNING DIRECTOR	8-29-84 DATE
<i>William B. Rong</i> CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION	8-29-84 DATE

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City, Elect. Dist. No. 2, Ho. Co. Tax Map No. 30 Law Docket A-3652

Liber 781 Folio 592, Parcel 345, 63.6 Ac.
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	383	604	1.16	94

LD LAND DESIGN / RESEARCH, INC.
5560 STERRETT PLACE, SUITE 300
COLUMBIA, MARYLAND

ROAD PROFILES

CENTENNIAL PARK
PHASE FOUR - LAKESHORE SOUTH AREA

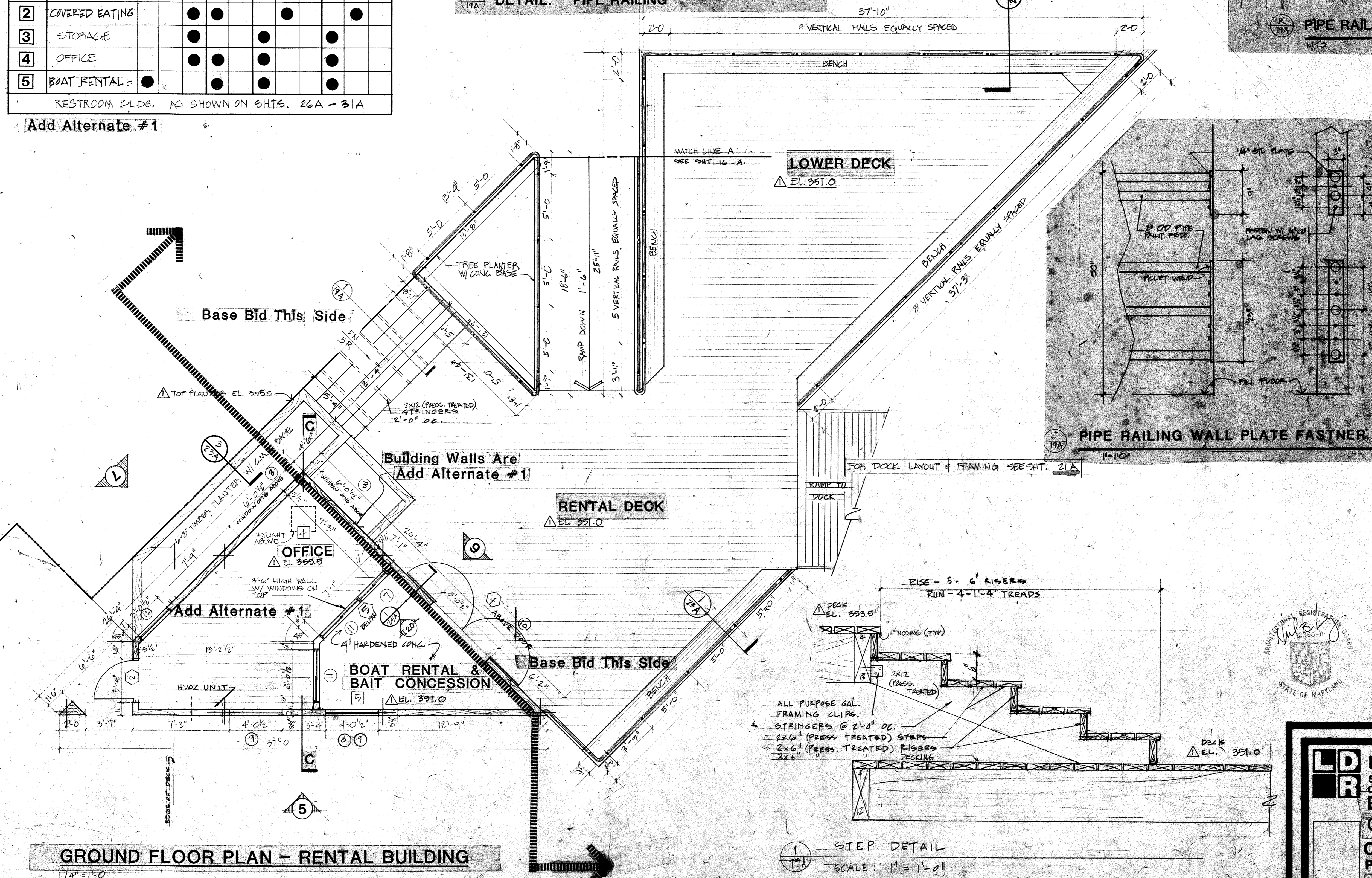
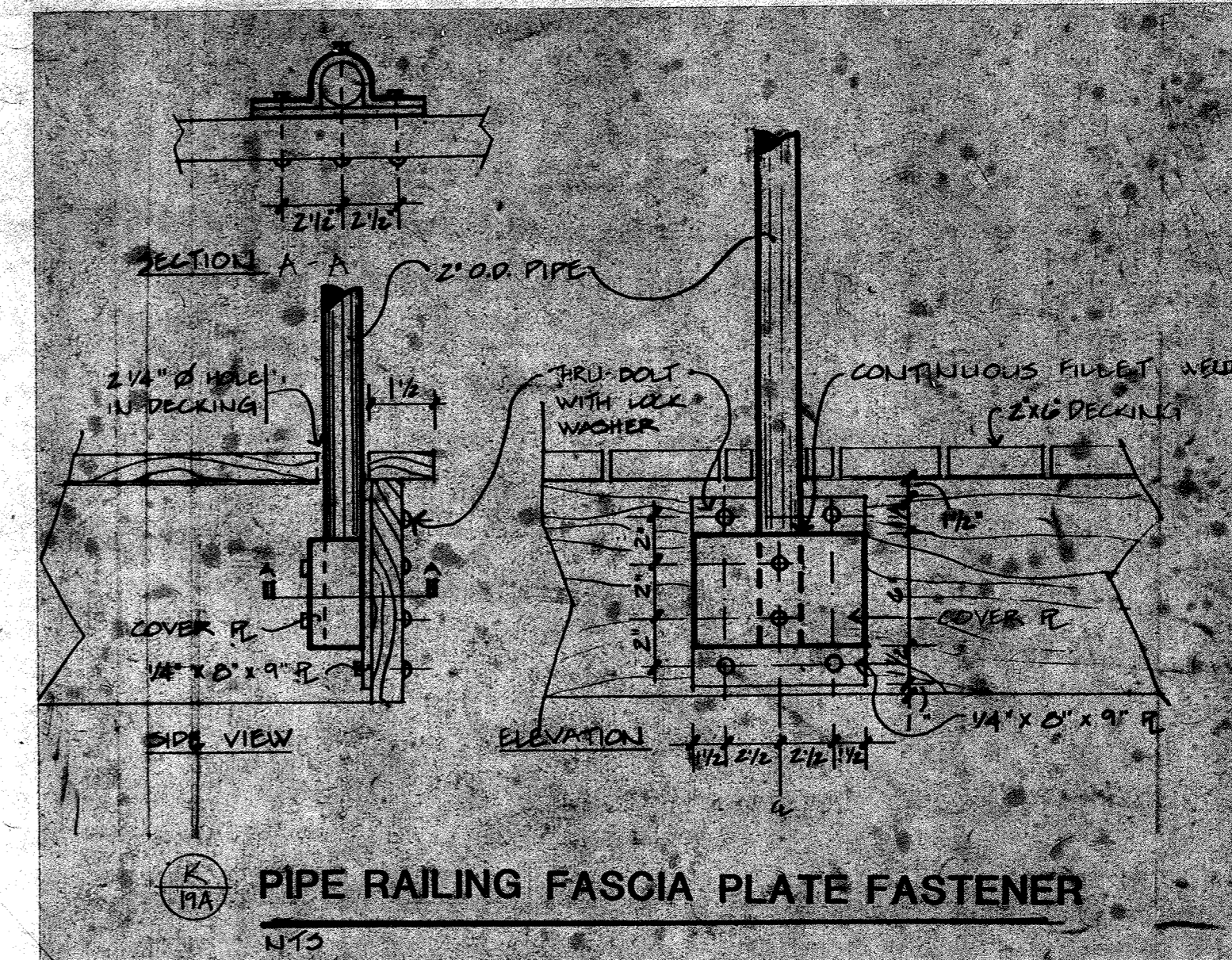
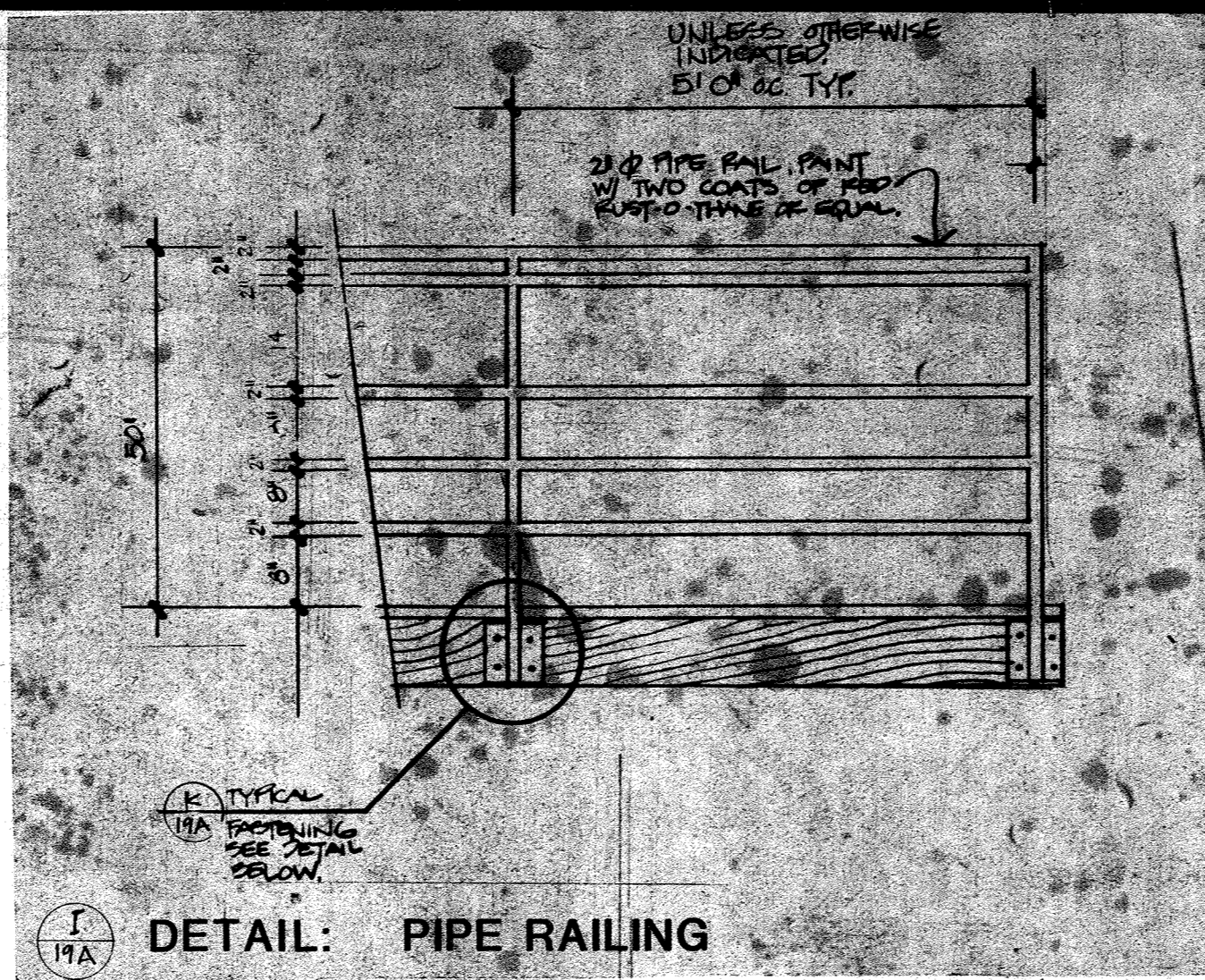
DATE	6-1-83	REVISIONS:	SHEET NO.
SCALE	AS NOTED		19
DRAWN			OF 81
CHECKED	10-21-83		

Lance D. Pollock

FINISH SCHEDULE						
mark	space	floor	base	wall	ceiling	
		HARDENED CONCRETE 4" 20# CONC. SLAB W/ SEALLESS EXPT. FIN.	1" X 6" CEDAR V.A.T.	DRYWALL 1" X 6" CEDAR SIDING	EXPOSED STRUCTURE DRYWALL	1" X 4" T&G FIR EXPOSED STRUCTURE
1	KITCHEN	●	●	●	●	
2	COVERED EATING	●	●	●	●	
3	STORAGE	●	●	●	●	
4	OFFICE	●	●	●	●	
5	BOAT RENTAL	●	●	●	●	

RESTROOM BLDG. AS SHOWN ON SHTS. 26A - 31A

Add Alternate #1



APPROVED: For Public Water, Drainage Systems and Storm and Storm
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Howe F. Nemy 8-28-81
 DIRECTOR DATE
William E. Ray 10-23-83
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: For Public Water and Sewerage Systems and Private
 HOWARD COUNTY HEALTH DEPARTMENT
John J. Gyles 1-25-84
 COUNTY HEALTH OFFICER DATE

APPROVED: Howard County Office of Planning and Zoning
Donald L. Harrison 8-29-84
 PLANNING DIRECTOR DATE
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City
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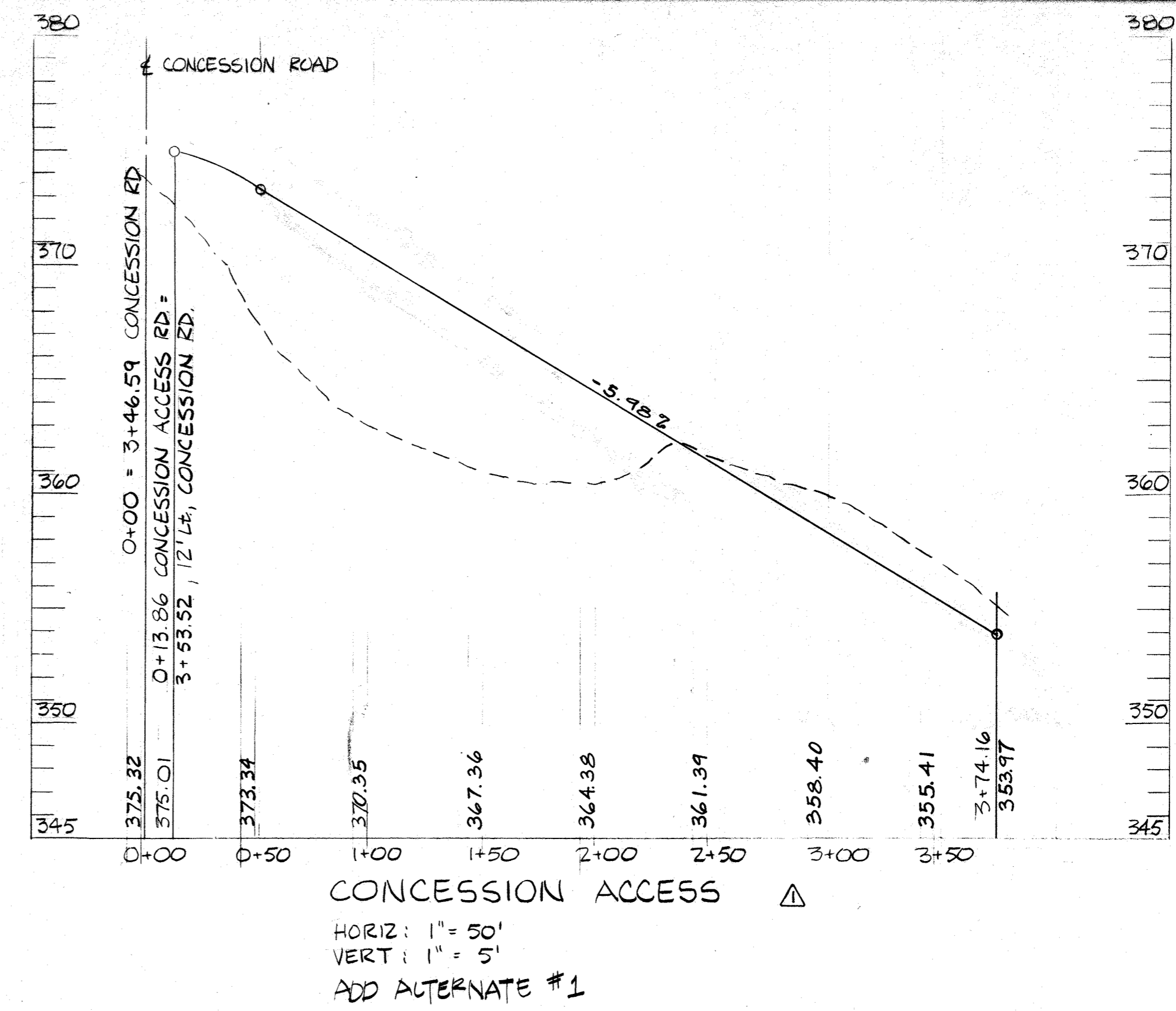
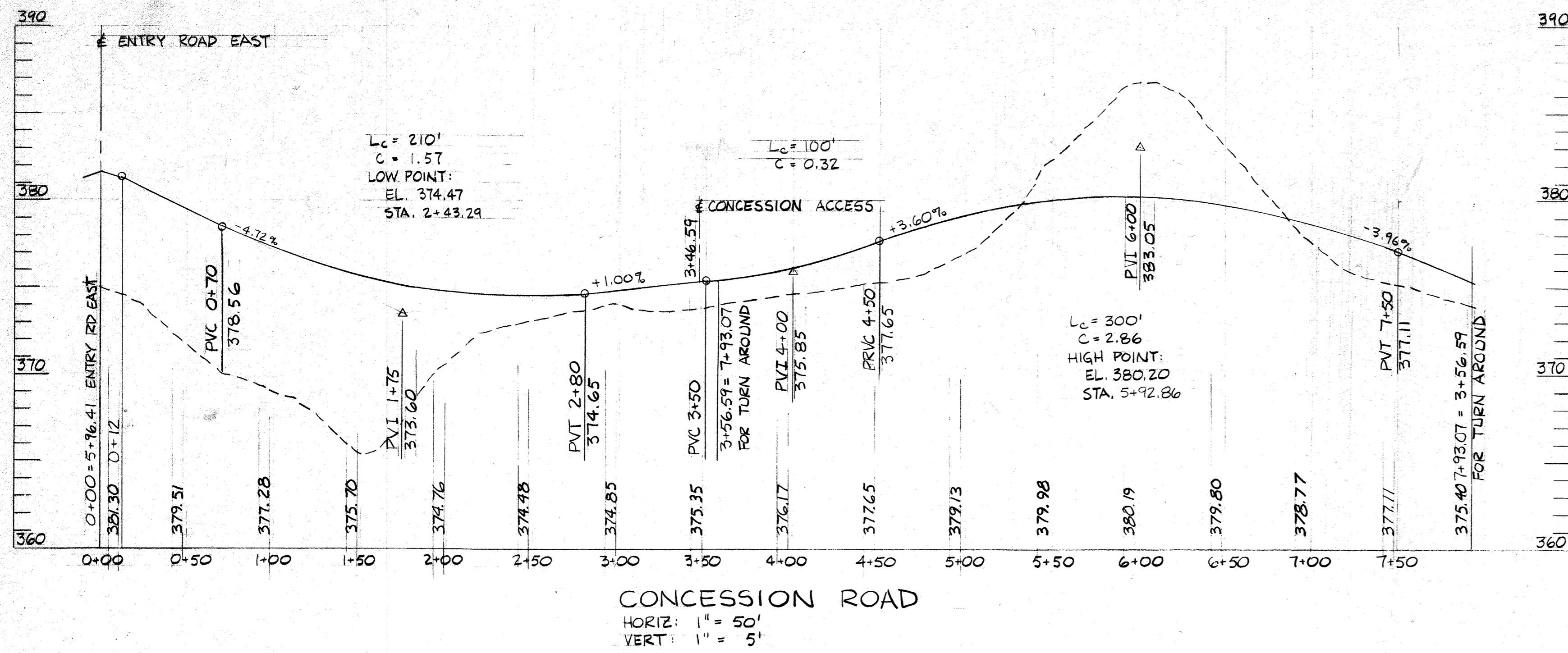
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LD LAND DESIGN / RESEARCH, INC.
 5560 STERRETT PLACE, SUITE 300
 COLUMBIA, MARYLAND

BOAT DOCK / CONCESSION
 CLUSTER GROUND FLOOR PLAN
 CENTENNIAL PARK
 PHASE FOUR - LAKESHORE SOUTH AREA

DATE	6-1-83	REVISIONS:	5-11-84	SHEET NO.	19A
SCALE	1/4" = 1'-0"			OF 81	
DRAWN	R. J. L.				
CHECKED	10-21-83				



APPROVED: For Public Water, Drainage Systems and Roads and Storm

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Wayne F. Nemy 8-28-84
DIRECTOR DATE

John S. Kelly 10-28-83
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: For Public Water and Private Sewerage Systems

HOWARD COUNTY HEALTH DEPARTMENT

Joseph Boyden 1-25-84
COUNTY HEALTH OFFICER DATE

APPROVED: Howard County Office of Planning and Zoning

Thomas L. Manning 8-27-84
PLANNING DIRECTOR DATE

John H. ... 2-27-84
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City

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Eric D. ...

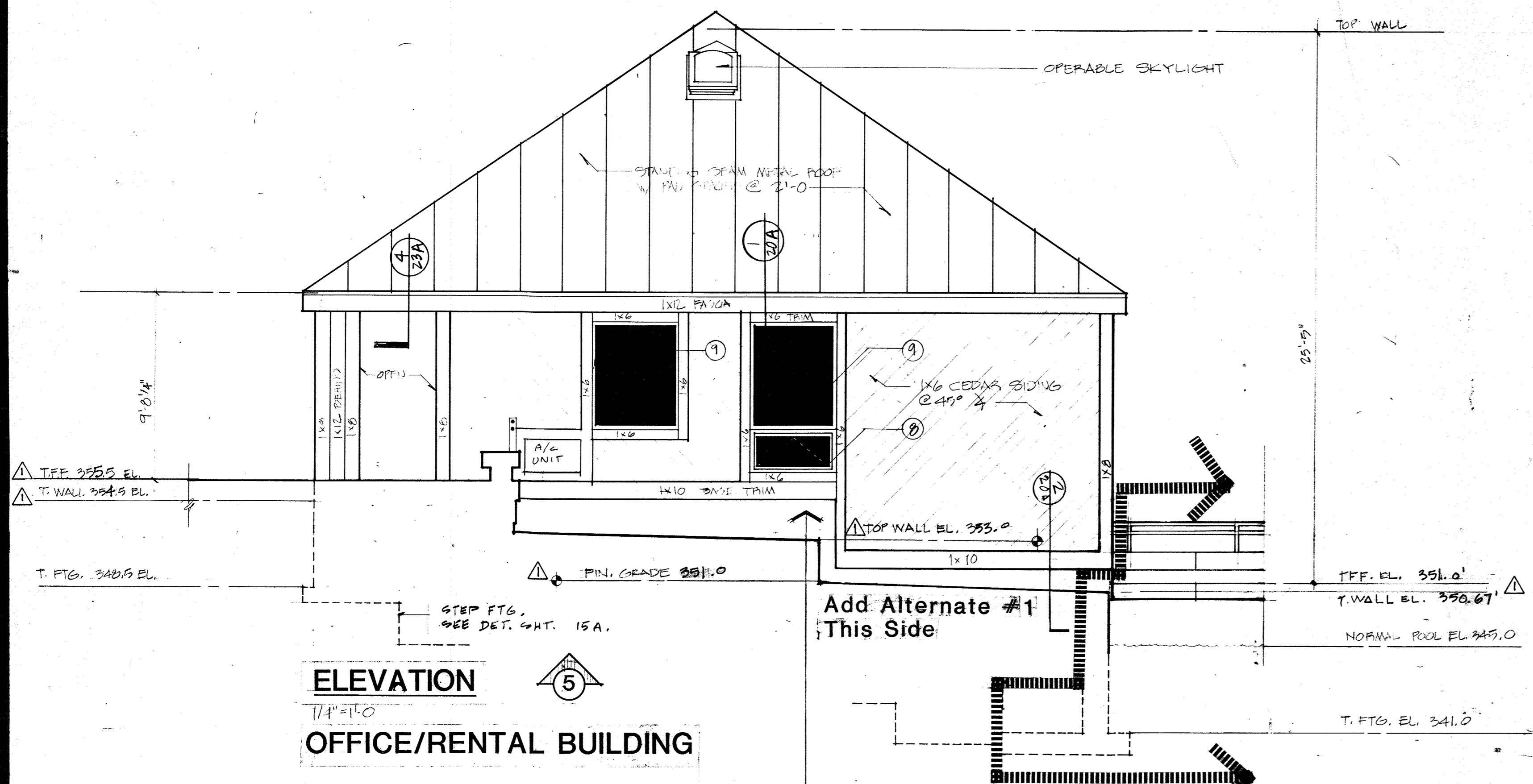
LD LAND DESIGN / RESEARCH, INC.
 5560 STERRETT PLACE, SUITE 300
 COLUMBIA, MARYLAND

ROAD PROFILES

CENTENNIAL PARK
 PHASE FOUR - LAKESHORE SOUTH AREA

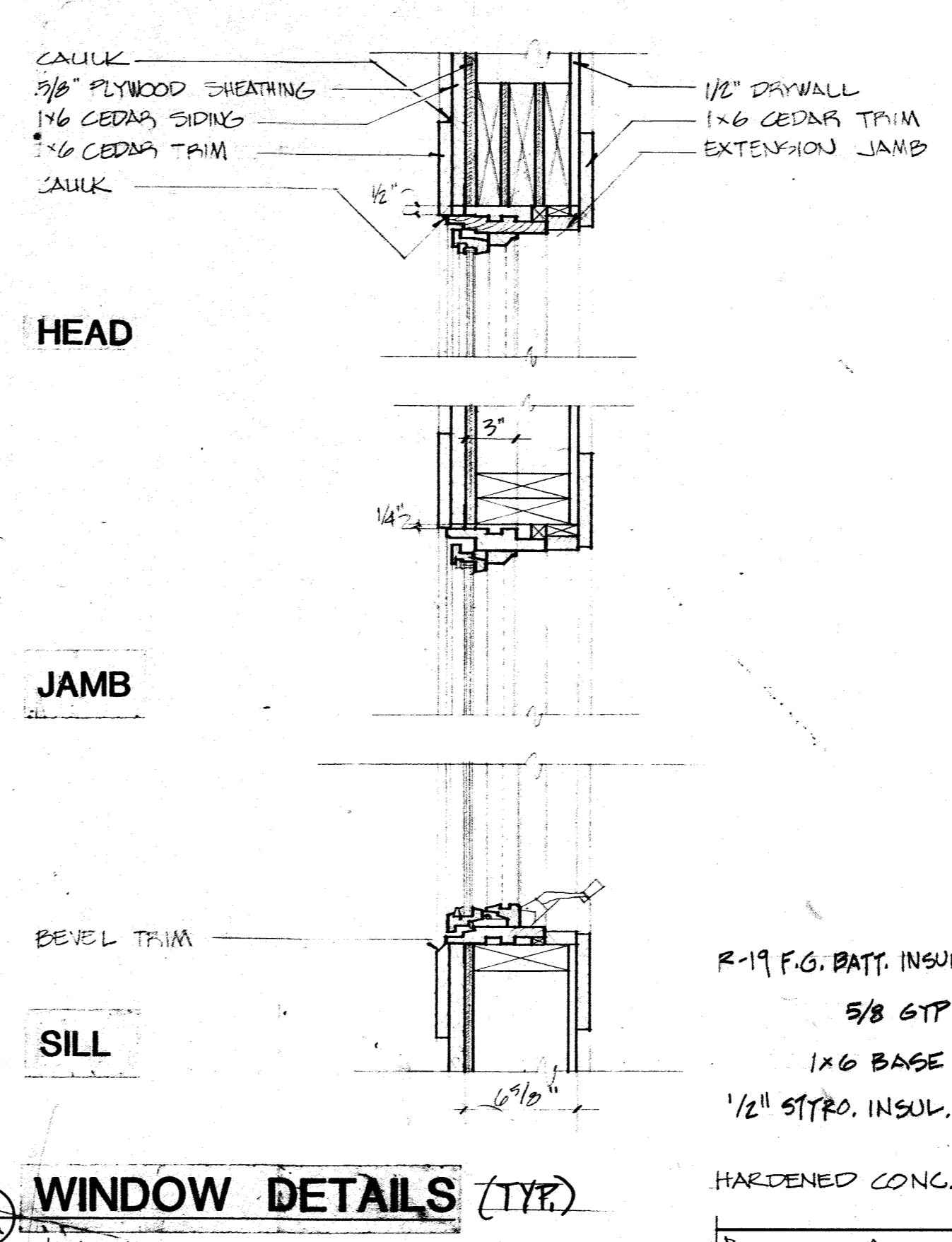
DATE	6-1-83	REVISIONS:	SHEET NO.
SCALE	AS NOTED	Δ 5-11-84	20
DRAWN			OF 81
CHECKED	10-21-83		

SDP-84-165

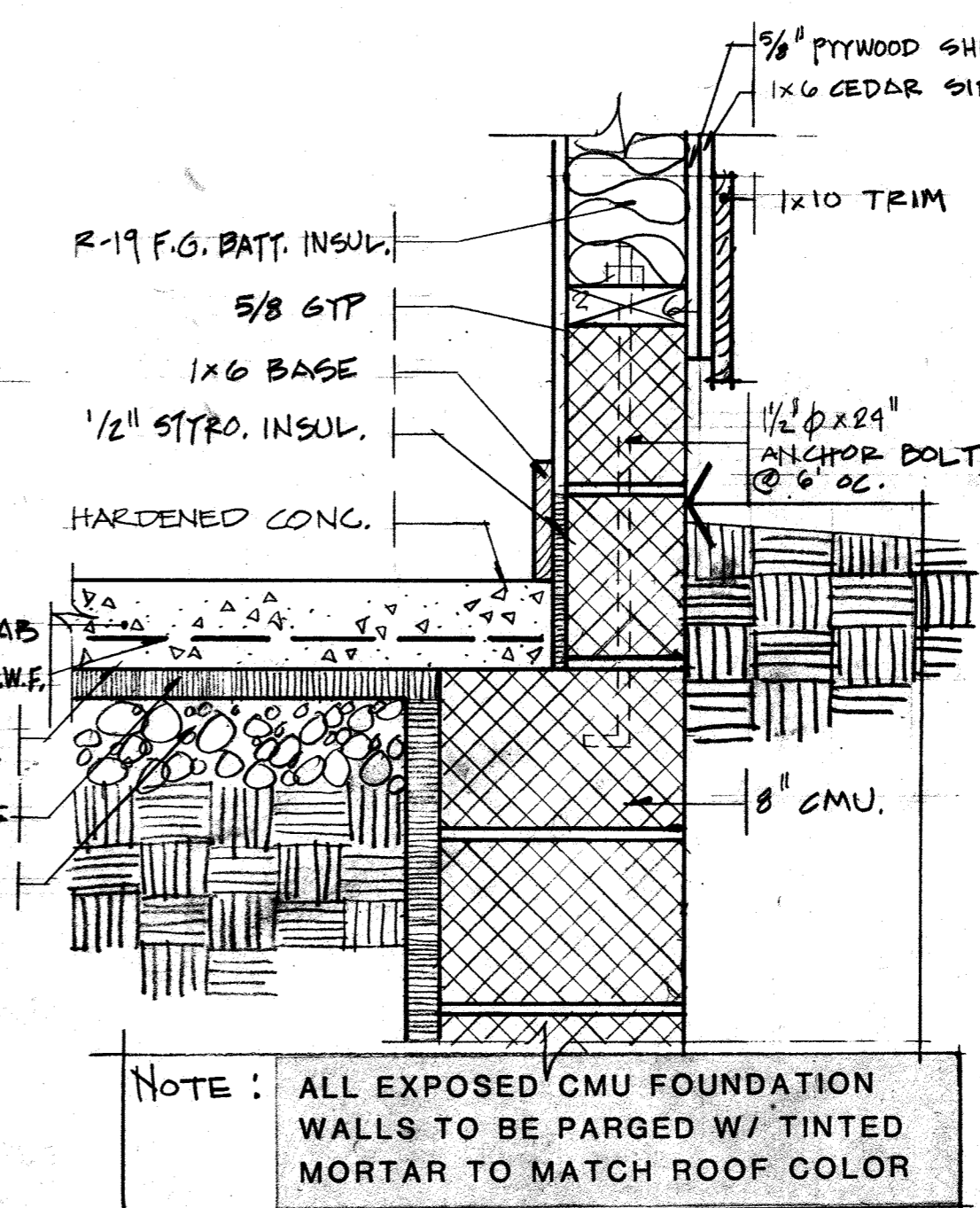


ELEVATION 5
OFFICE/RENTAL BUILDING
1/4" = 1'-0"

NOTE: ALL EXPOSED CMU FOUNDATION WALLS TO BE PARGED W/ TINTED MORTAR TO MATCH ROOF COLOR



WINDOW DETAILS (TYP)
1/2" = 1'-0"



20A SLAB & WALL DETAIL
SCALE 1/2" = 1'-0"
ADD ALTERNATE #1

MATERIALS AND COLOR SELECTION FOR CENTENNIAL PARK BUILDINGS

ROOF-TCS/Terme-coated stainless steel by Follansbee Steel Corp. or approved equal.

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METAL RAILING & METAL DOORS-"Tile Red" ready mixed gloss with rust inhibiting primer by Pittsburgh Paint.

APPROVED: For Public Water, Drainage Systems and Roads and Storm

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Walter Nemy 8-27-84
DIRECTOR DATE

William B. Ray 10-23-83
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: For Public Water and Private Sewerage Systems

HOWARD COUNTY HEALTH DEPARTMENT

John G. Jones 1-25-84
COUNTY HEALTH OFFICER DATE

APPROVED: Howard County Office of Planning and Zoning

Thomas L. Amundson 8-29-84
PLANNING DIRECTOR DATE

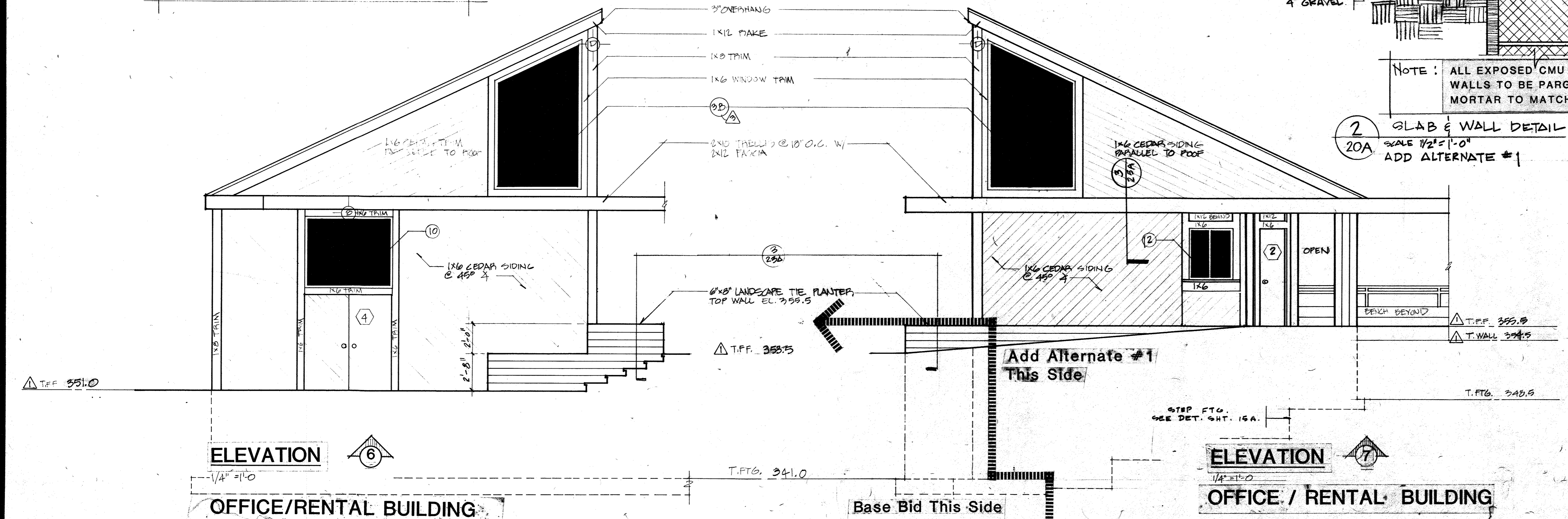
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City, Elect. Dist. No. 2, Ho. Co. Tax Map No. 30, Law Docket A-3652

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ELEVATION 6
OFFICE/RENTAL BUILDING
1/4" = 1'-0"

ELEVATION 7
OFFICE / RENTAL BUILDING
1/4" = 1'-0"



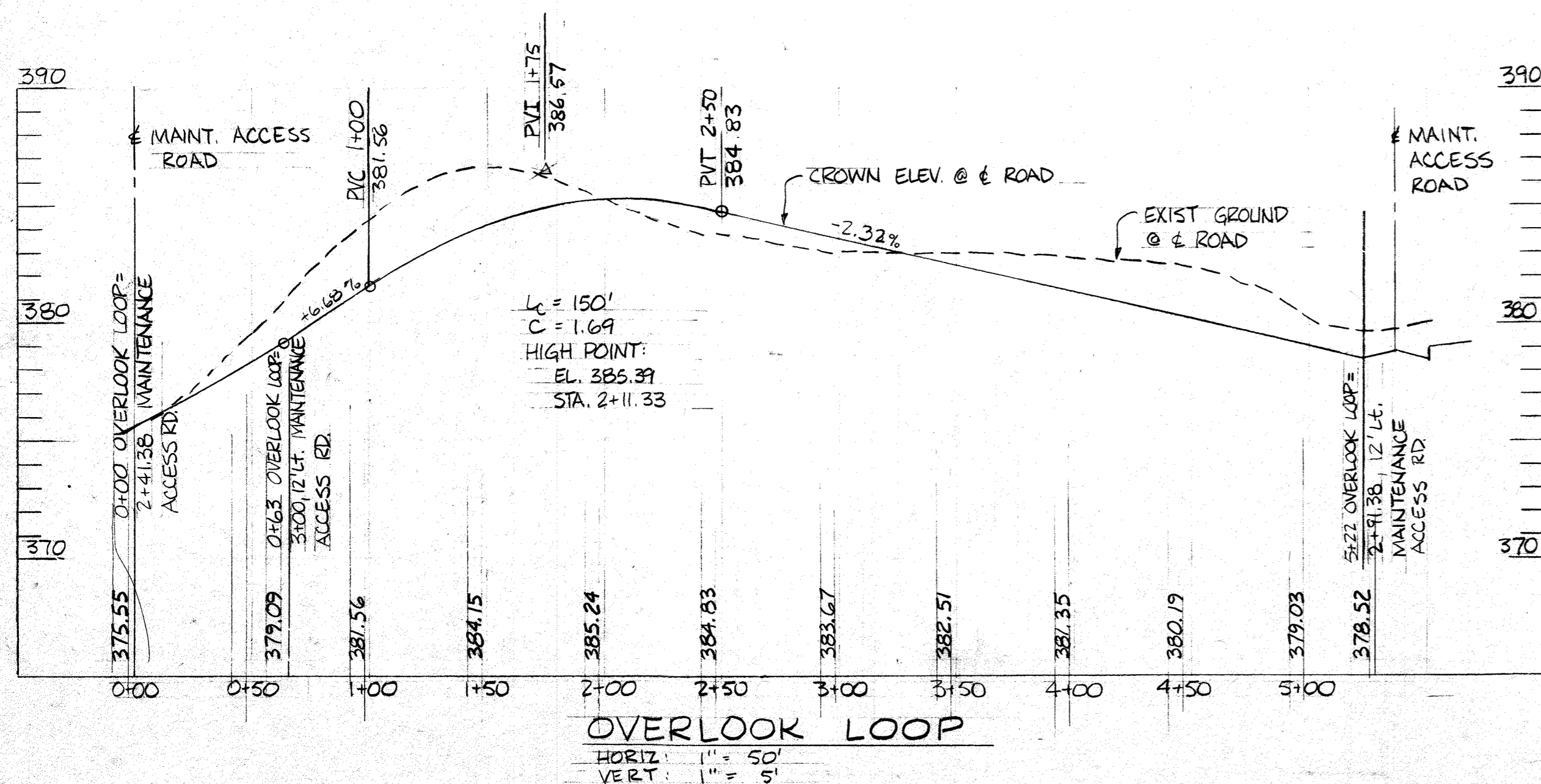
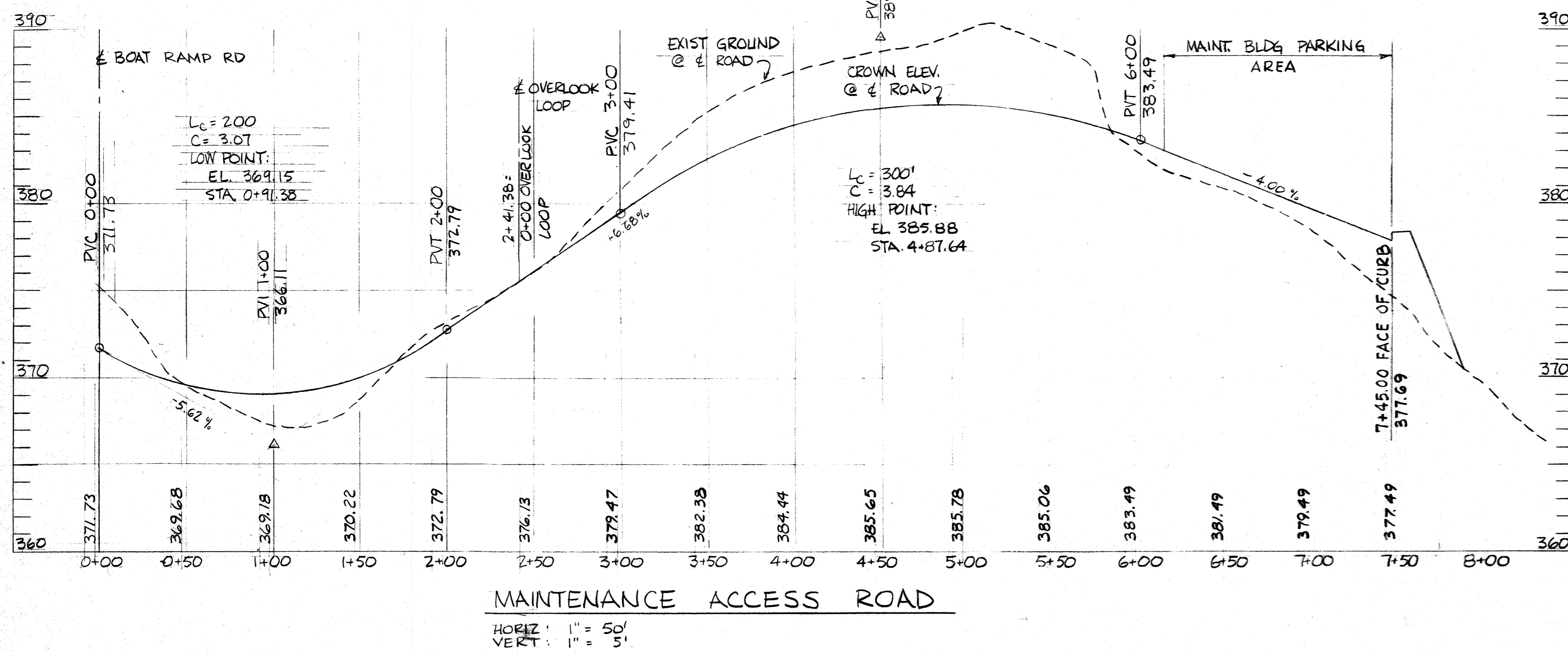
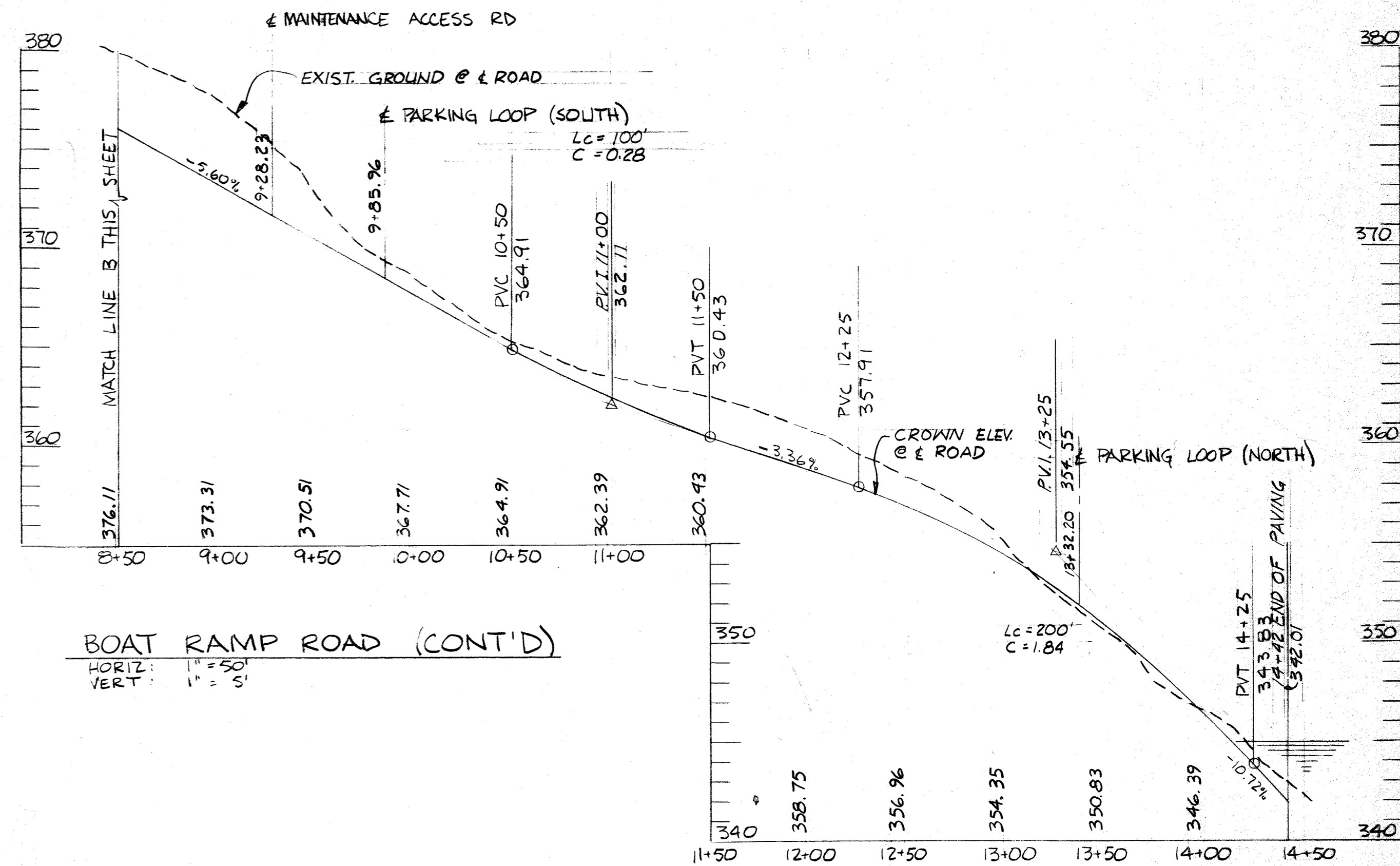
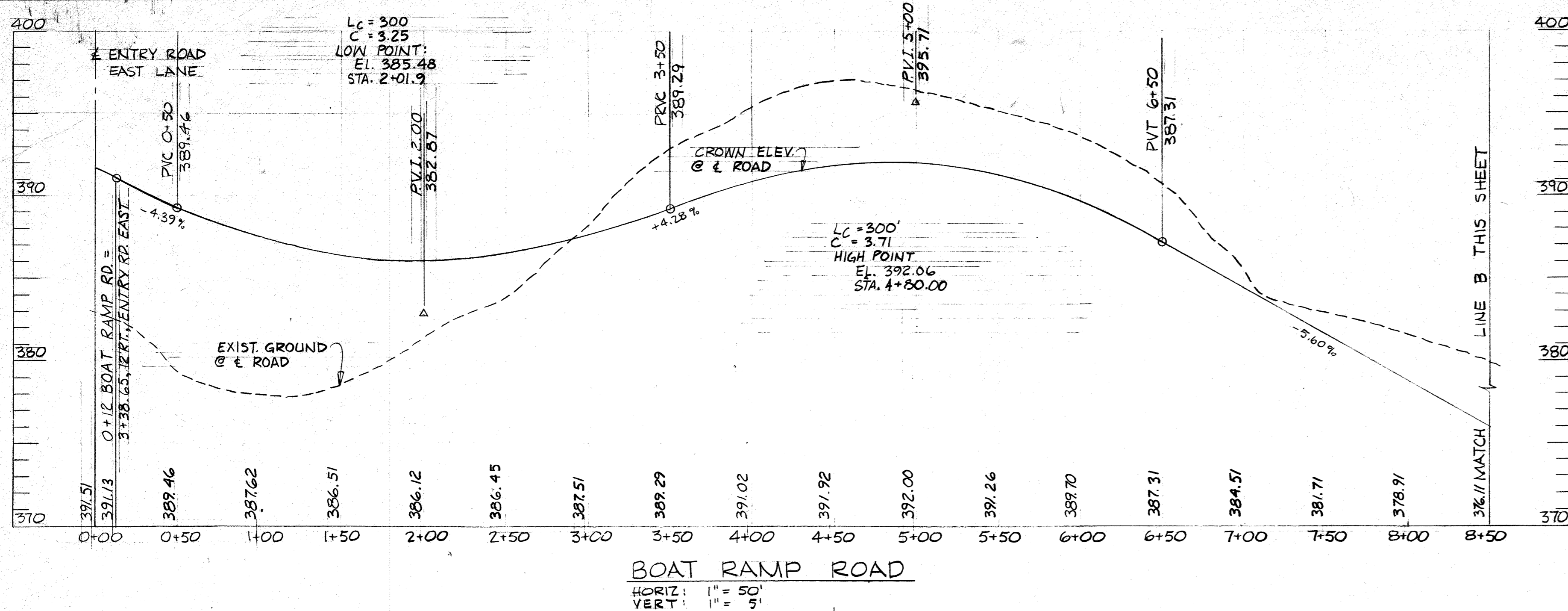
LD LAND DESIGN / RESEARCH, INC.
5560 STERRETT PLACE, SUITE 300
COLUMBIA, MARYLAND

BOAT DOCK / CONCESSION
CLUSTER ELEVATIONS

CENTENNIAL PARK
PHASE FOUR - LAKESHORE SOUTH AREA

DATE	REVISIONS:	SHEET NO.
8-1-83	1	20A
10-21-83	2	OF 87

SCALE: 1/4" = 1'-0"
DRAWN: R. J. L...
CHECKED: 10/21/83



APPROVED: For Public Water, Drainage Systems and Storm and Storm
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Director: *Wayne F. Nemy* DATE: 8-28-84
 Chief, Bureau of Engineering: *William B. Ray* DATE: 10-18-83

APPROVED: For Public Water and Private Sewerage Systems
 HOWARD COUNTY HEALTH DEPARTMENT
 County Health Officer: *Joseph B. ...* DATE: 1-25-84

APPROVED: Howard County Office of Planning and Zoning
 Planning Director: *Thomas ...* DATE: 8-29-84
 Chief, Division of Land Development and Zoning Administration: *John ...* DATE: 8-29-84

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City, Elect. Dist. No. 2, Ho. Co. Tax Map No. 30 Law Docket A-3652
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Gene D. ...

LD LAND DESIGN / RESEARCH, INC.
 5560 STERRETT PLACE, SUITE 300
 COLUMBIA, MARYLAND

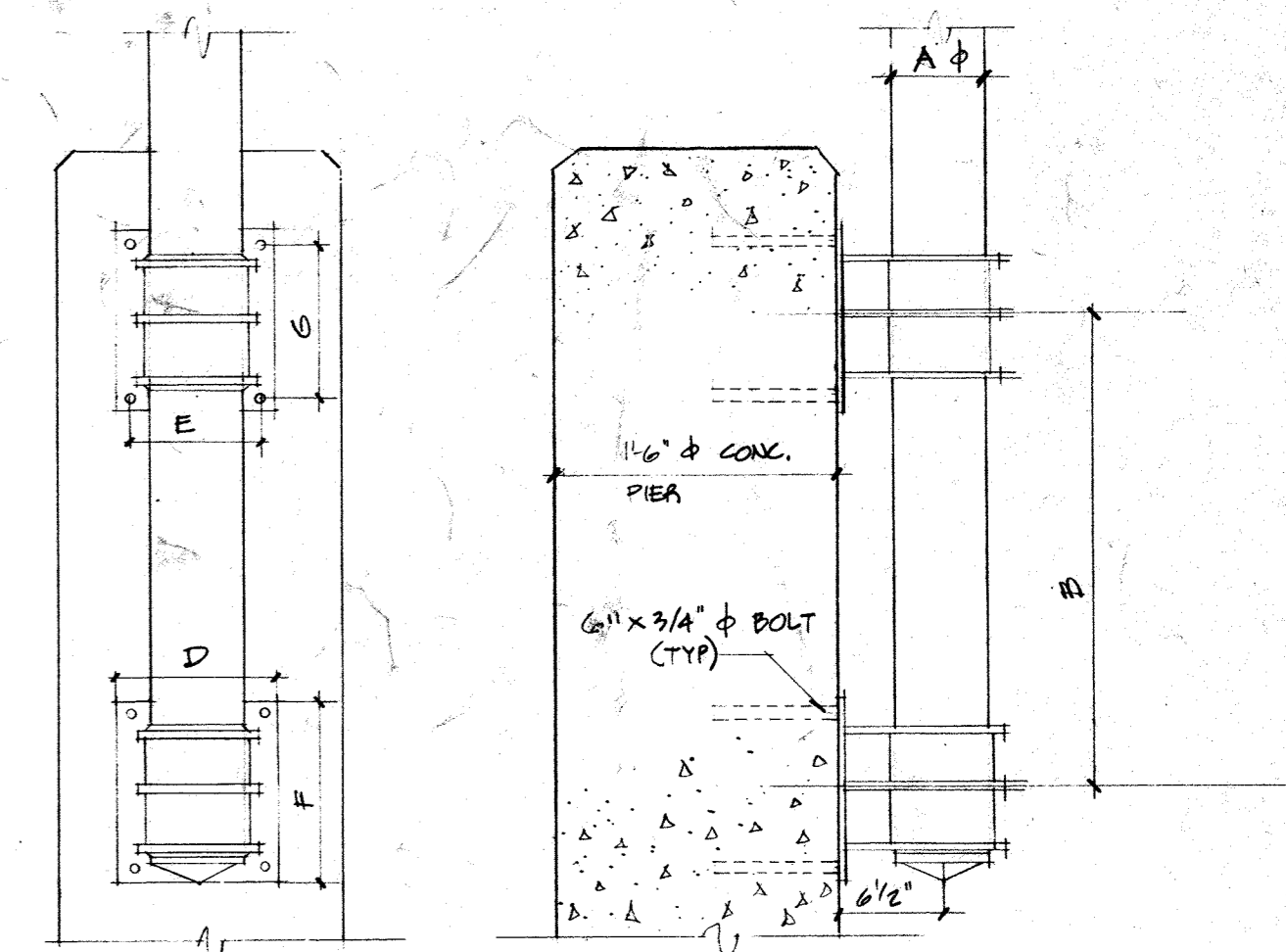
ROAD PROFILES

**CENTENNIAL PARK
 PHASE FOUR - LAKESHORE SOUTH AREA**

DATE	6-1-83	REVISIONS:	SHEET NO.
SCALE	AS NOTED		21
DRAWN			OF 81
CHECKED	10-21-83		

LEGEND: PIER ELEVATIONS

●	12" TOP PIER ELEV.	VARIABLES	SEE SHEETS 24A-25A
○	16" "	353.5	
⊙	18" "	351.5	
⊗	" "	350.5	
⊕	" "	349.0	
⊖	" "	345.5	



MARK	LENGTH	A	B	D	E	F	G
1	20'	4"	2'-0"	8'-0"	6'-0"	11"	9"
2	20'	5"	2'-6"	10"	8'-4"	11'-0"	9'-0"
3	30'	9"	3'-0"	10"	8'-4"	11'-0"	9'-0"

NOTE: WHEN FORMING PIER'S ALLOW FOR FLAT SURFACES TO WHICH MOUNTING BRACKET CAN BE FLUSH MOUNTED.

POLES BY "AMERICAN FLAGPOLE" (OR APFD, BRUAL) FINISH - NEP. BRONZE ANTIQUE MAT. ALUM. CAP. 5" Ø ALUM. W/ NEP BRONZE FINISH FLAG SIZE - 4'-6"

DETAIL - FLAGPOLE MOUNTING

NTS.
Add Alternate #1

APPROVED: For Public Water, Drainage Systems and Storm and Private Sewerage Systems

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Myke Nemmy
 DIRECTOR
 DATE: 8-28-84

APPROVED: For Public Water and Private Sewerage Systems

HOWARD COUNTY HEALTH DEPARTMENT
John M. Boyd
 COUNTY HEALTH OFFICER
 DATE: 1-25-84

APPROVED: Howard County Office of Planning and Zoning

Thomas L. Harp
 PLANNING DIRECTOR
 DATE: 8-29-84

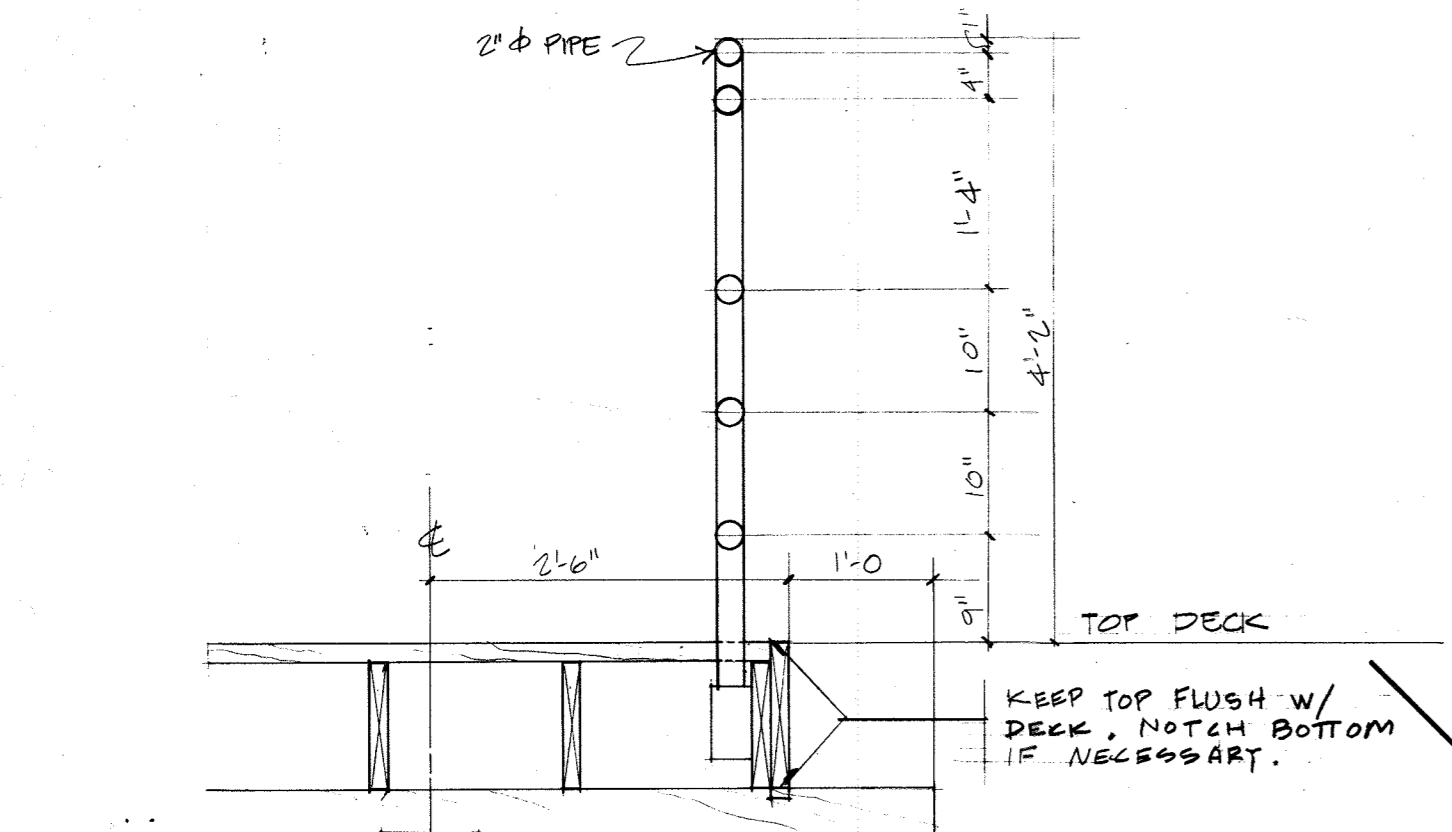
Thomas L. Harp
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION
 DATE: 8-29-84

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City

Elect. Dist. No. 2, Ho. Co. Tax Map No. 30
 Law Docket A-3652
 Liber 781 Folio 592, Parcel 345, 63.6 Ac.
 Liber 333 Folio 62, Parcel (Partial) 10, 42.9 Ac.
 Liber 507 Folio 437, Parcel 278, 61.45 Ac.

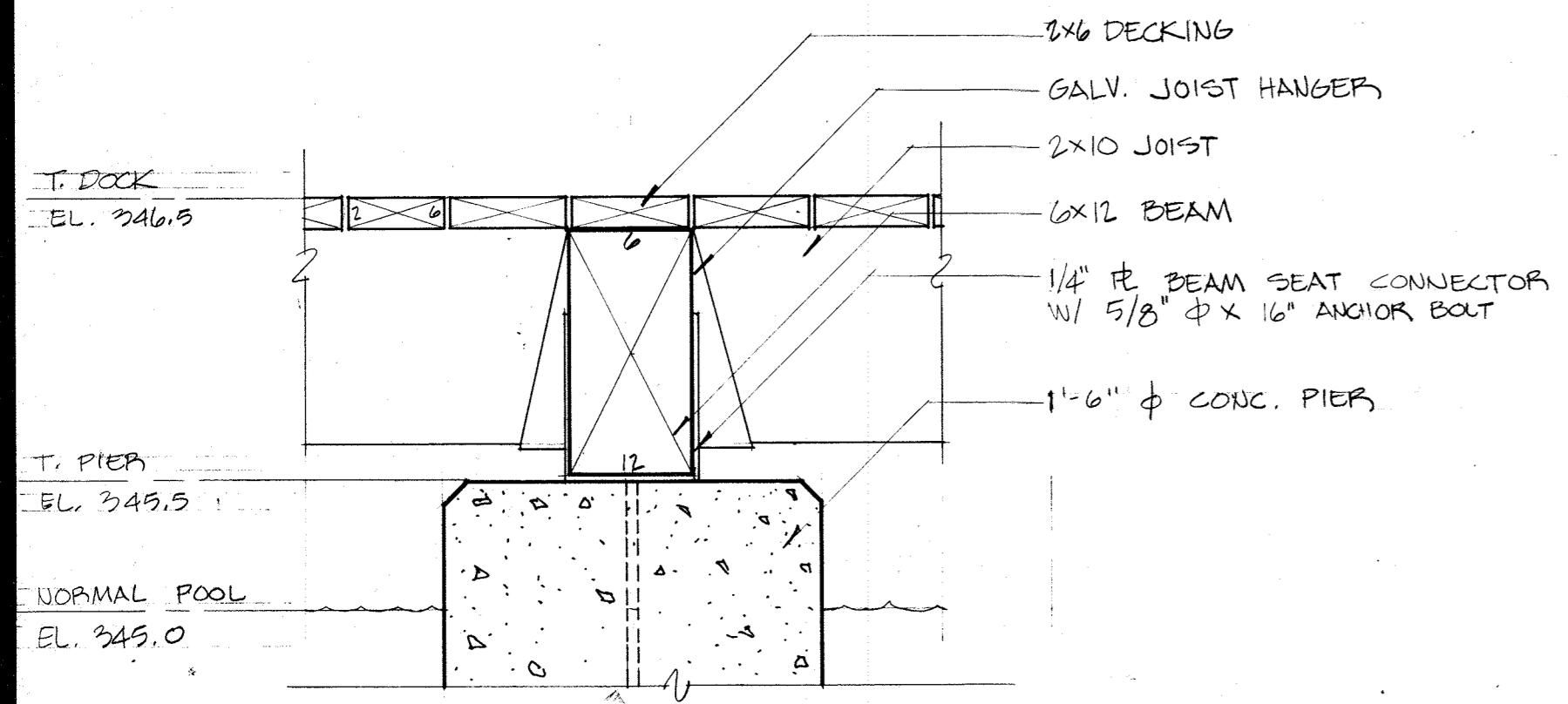
Adjacent Property Owners:

Owner	Liber	Folio	Acres	Parcel
Legg, M. R.	875	471	1.01	126
Zaiser, W. J.	259	105	7.08	92
Saas, J. A.	274	299	2.36	93
Taury, J. P.	611	589	1.23	149
	383	604	1.16	94



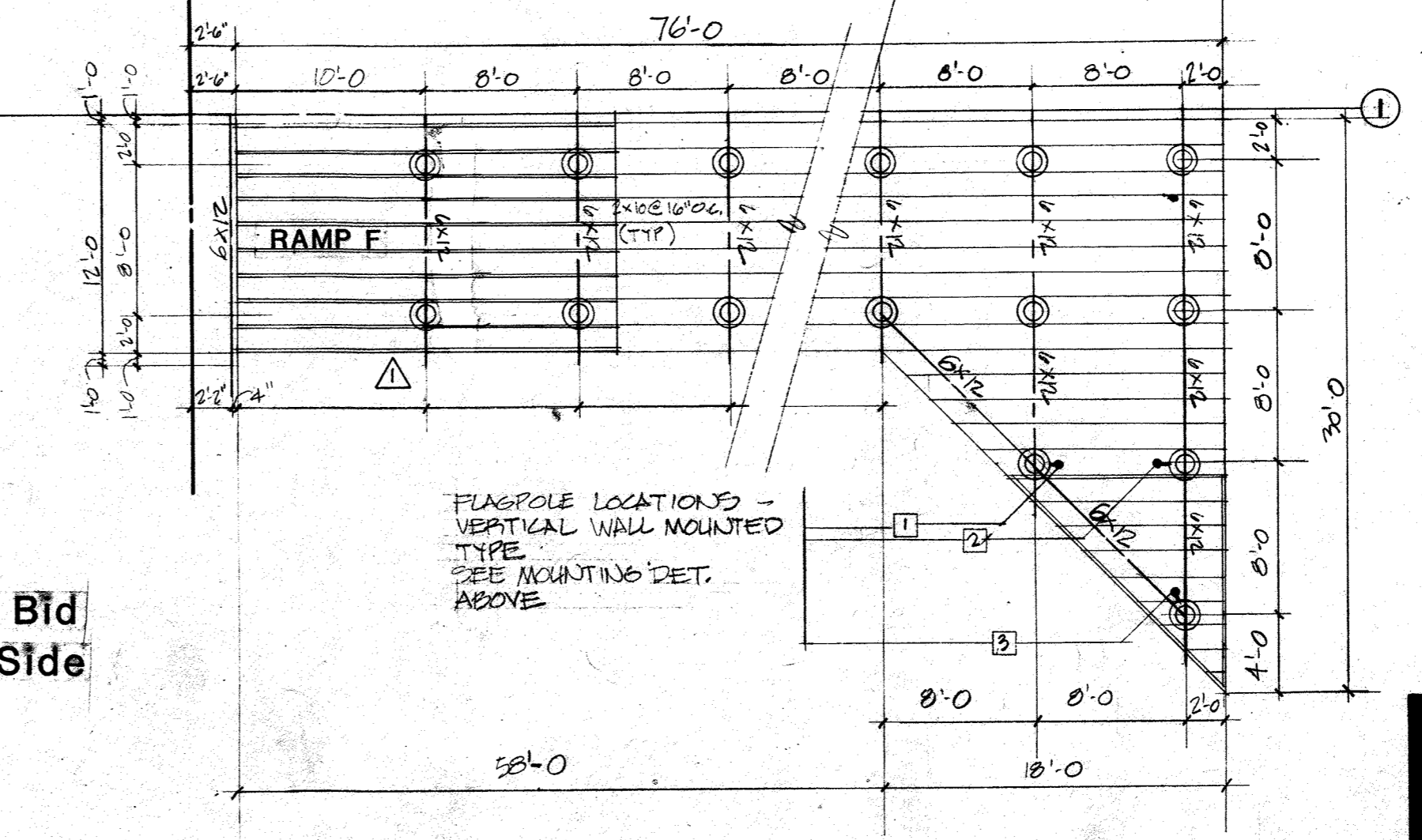
DETAIL - TYPICAL DOCK PIER

1/2" = 1'-0"
Base Bid



DECK FRAMING PLAN

1/8" = 1'-0"



DOCK FRAMING PLAN

1/8" = 1'-0"
Base Bid



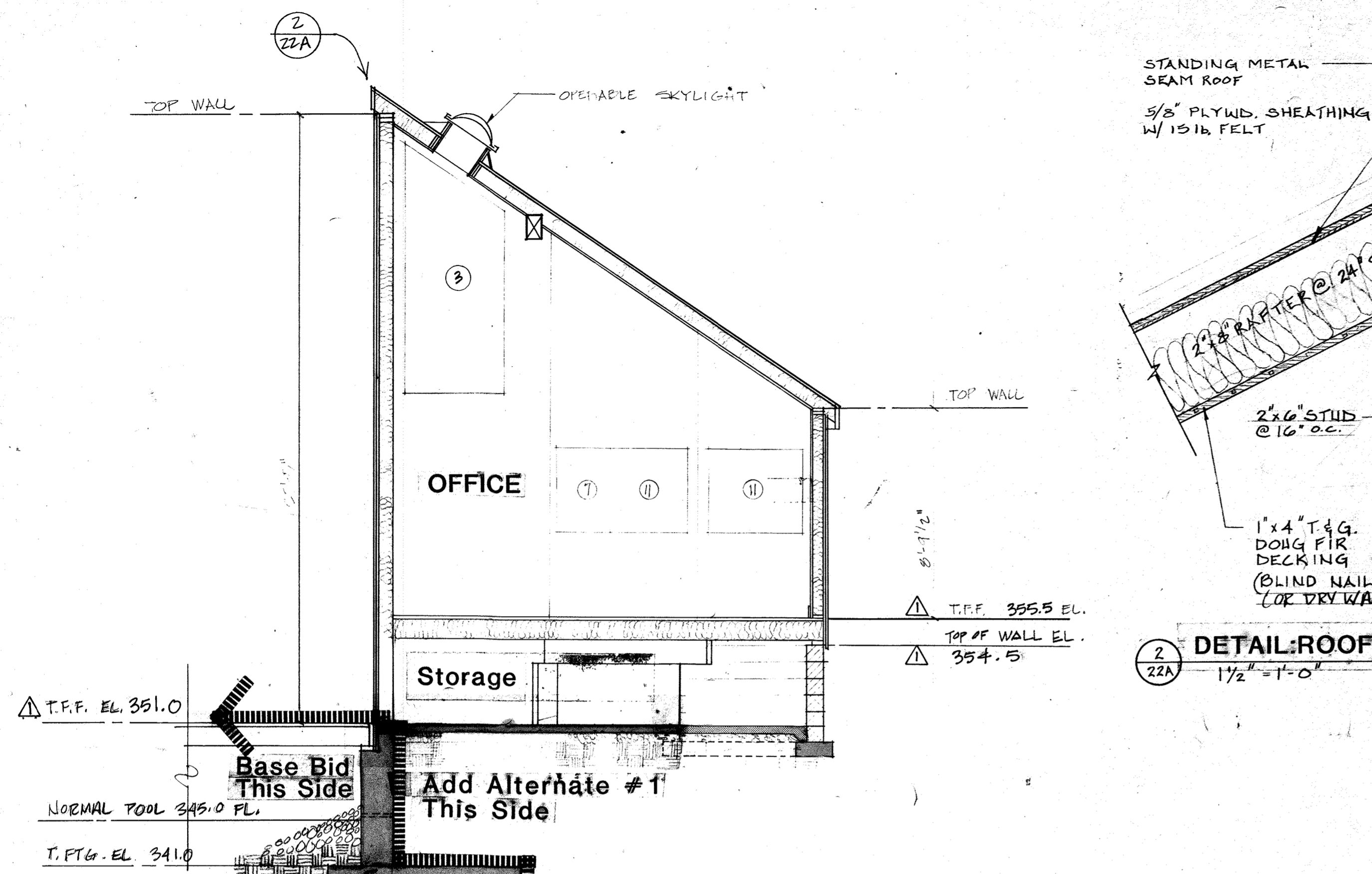
LD LAND DESIGN / RESEARCH, INC.
 5560 STERRETT PLACE, SUITE 300
 COLUMBIA, MARYLAND

BOAT DOCK / CONCESSION CLUSTER

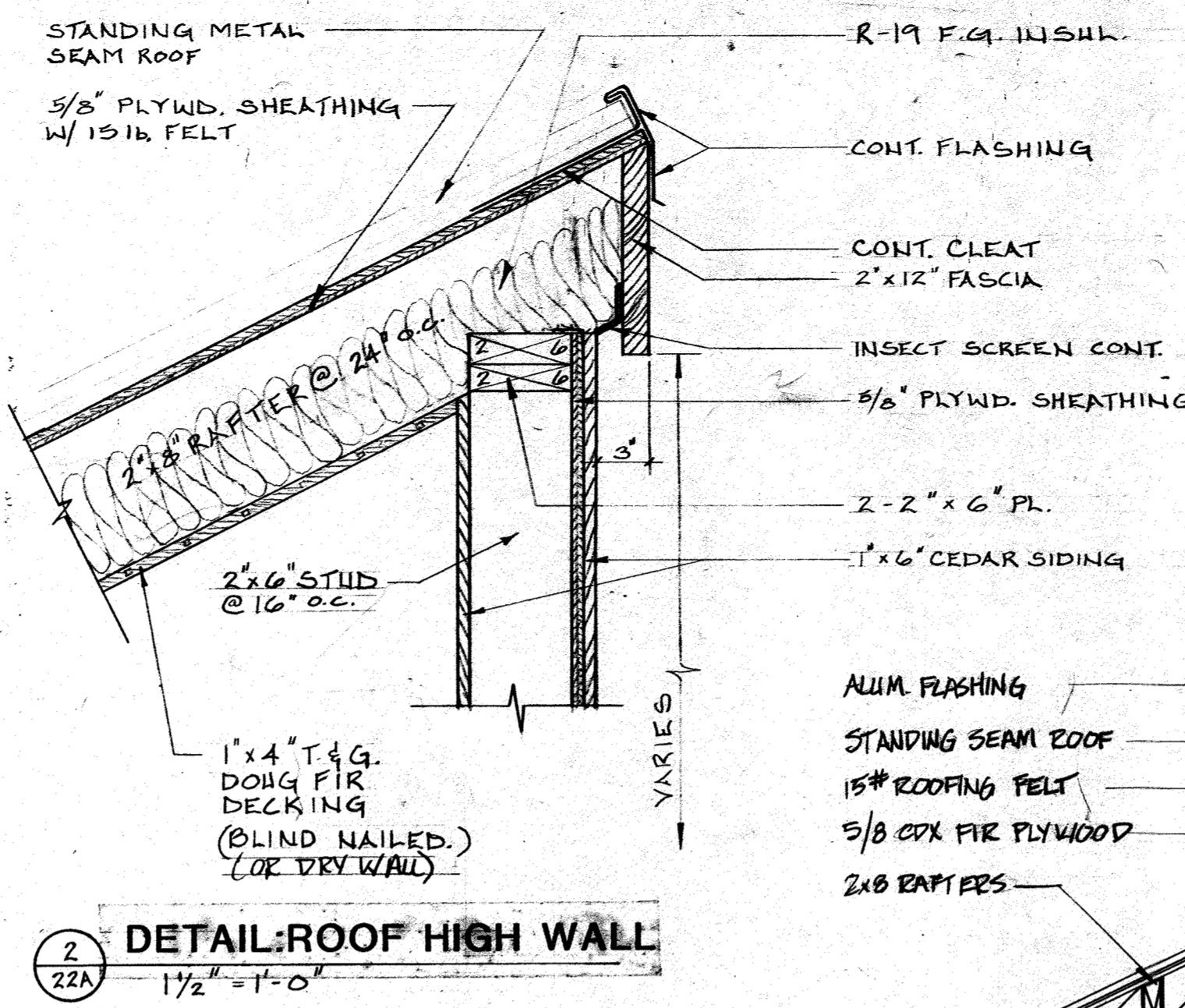
Deck & Dock Framing Plans
CENTENNIAL PARK
 PHASE FOUR - LAKESHORE SOUTH AREA

DATE	6-1-83	REVISIONS:	
SCALE	AS SHOWN		8-11-84
DRAWN	R.J.L.		
CHECKED	10-21-83		

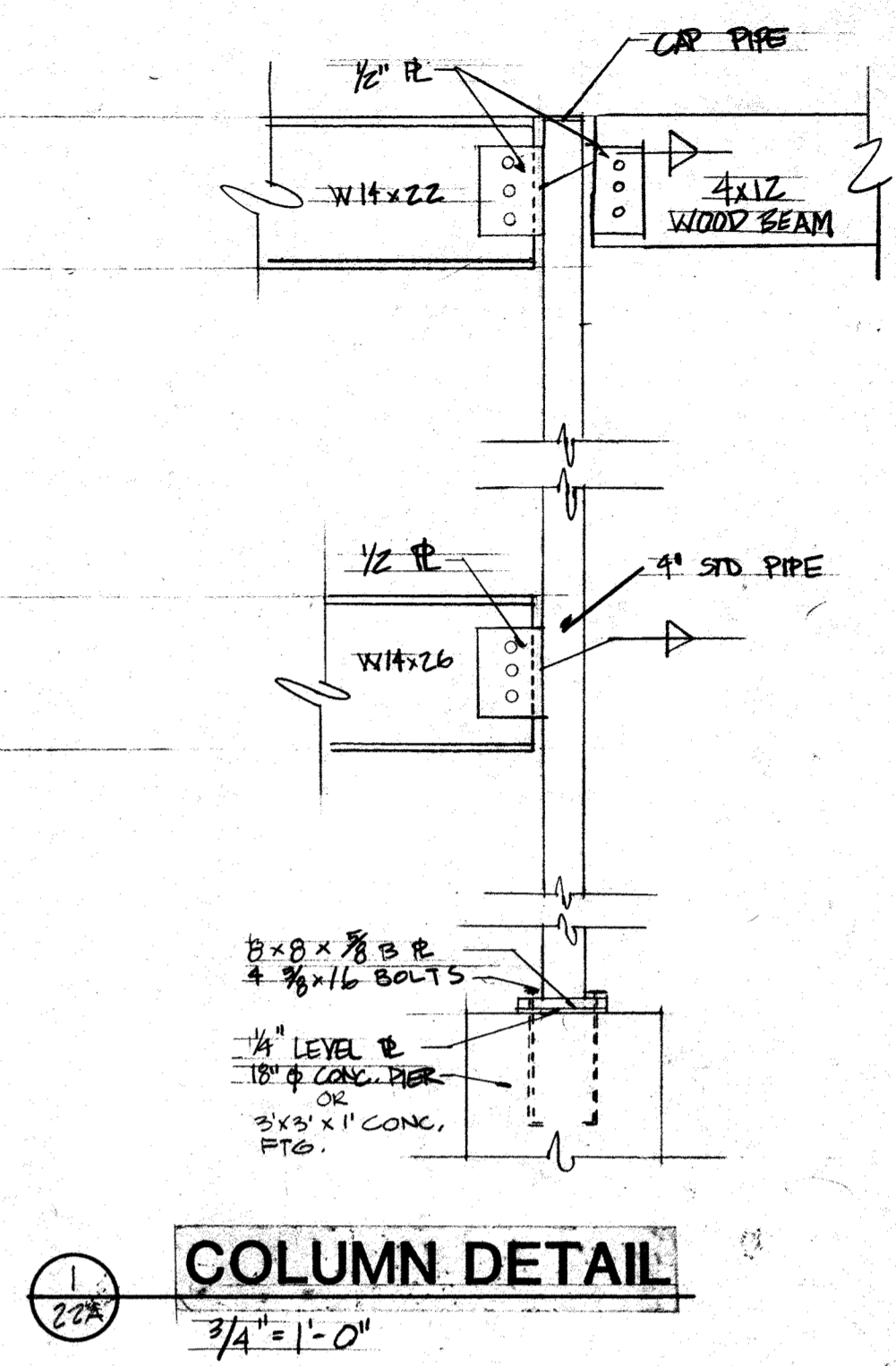
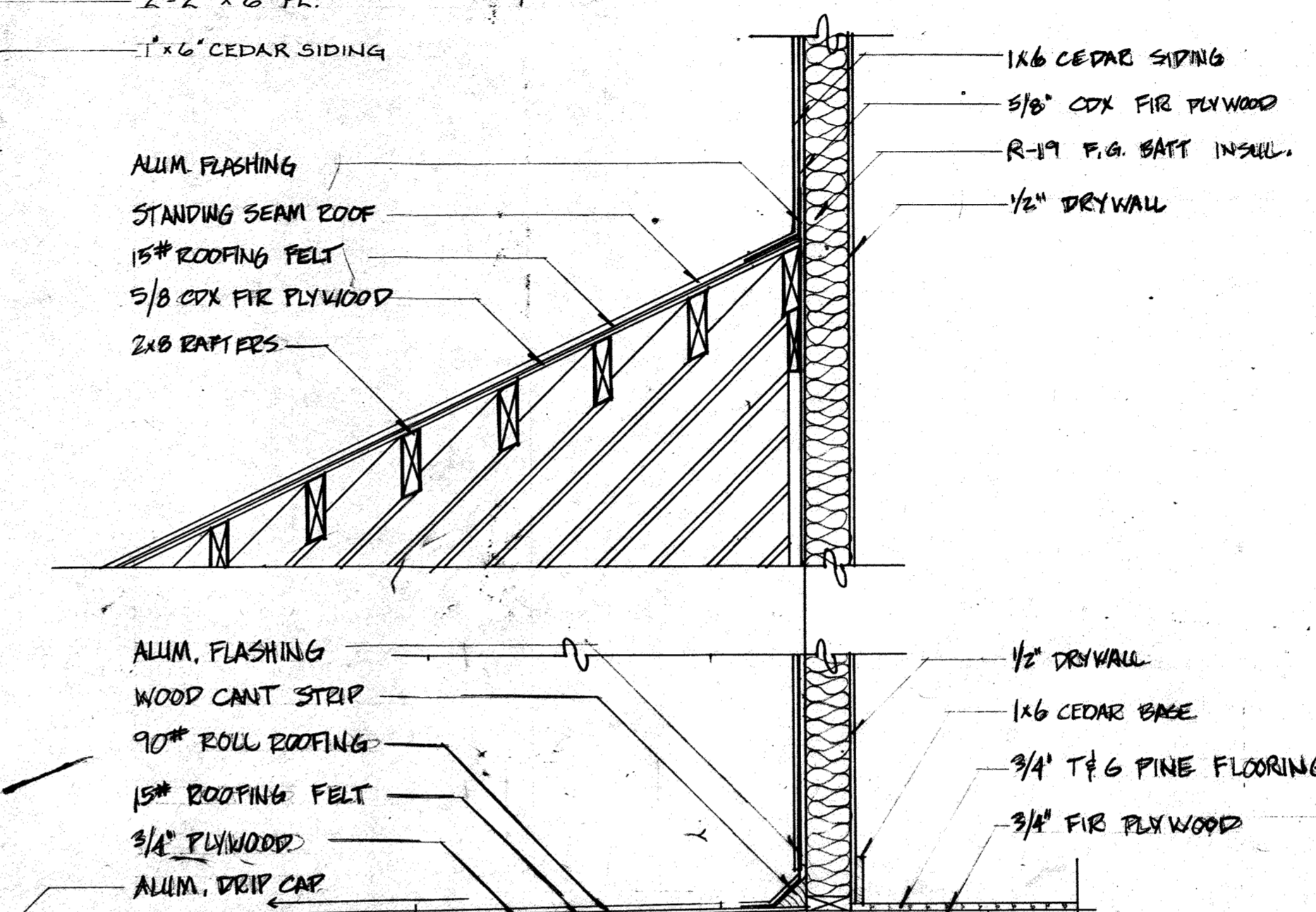
21A
OF 81



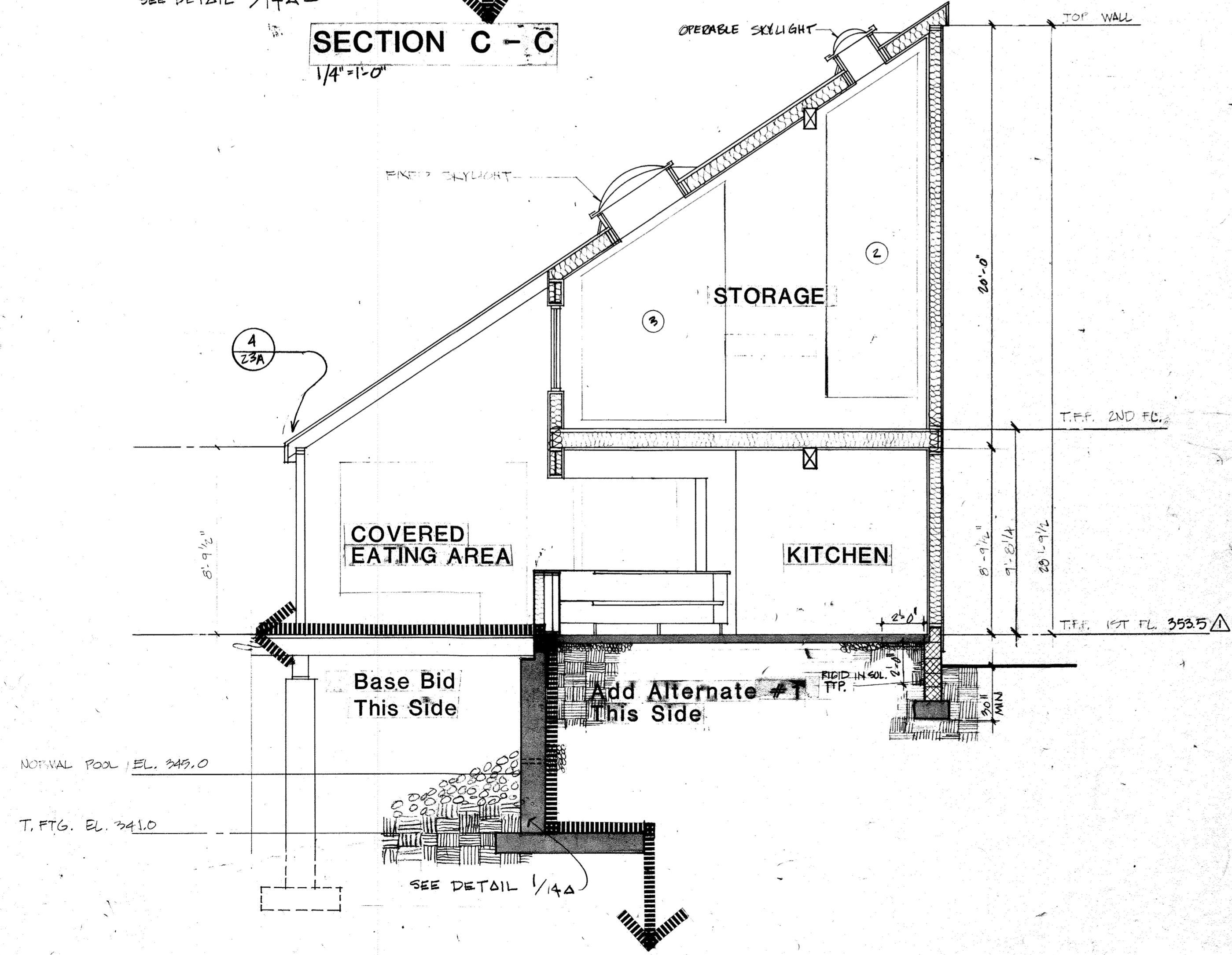
SECTION C - C
1/4" = 1'-0"



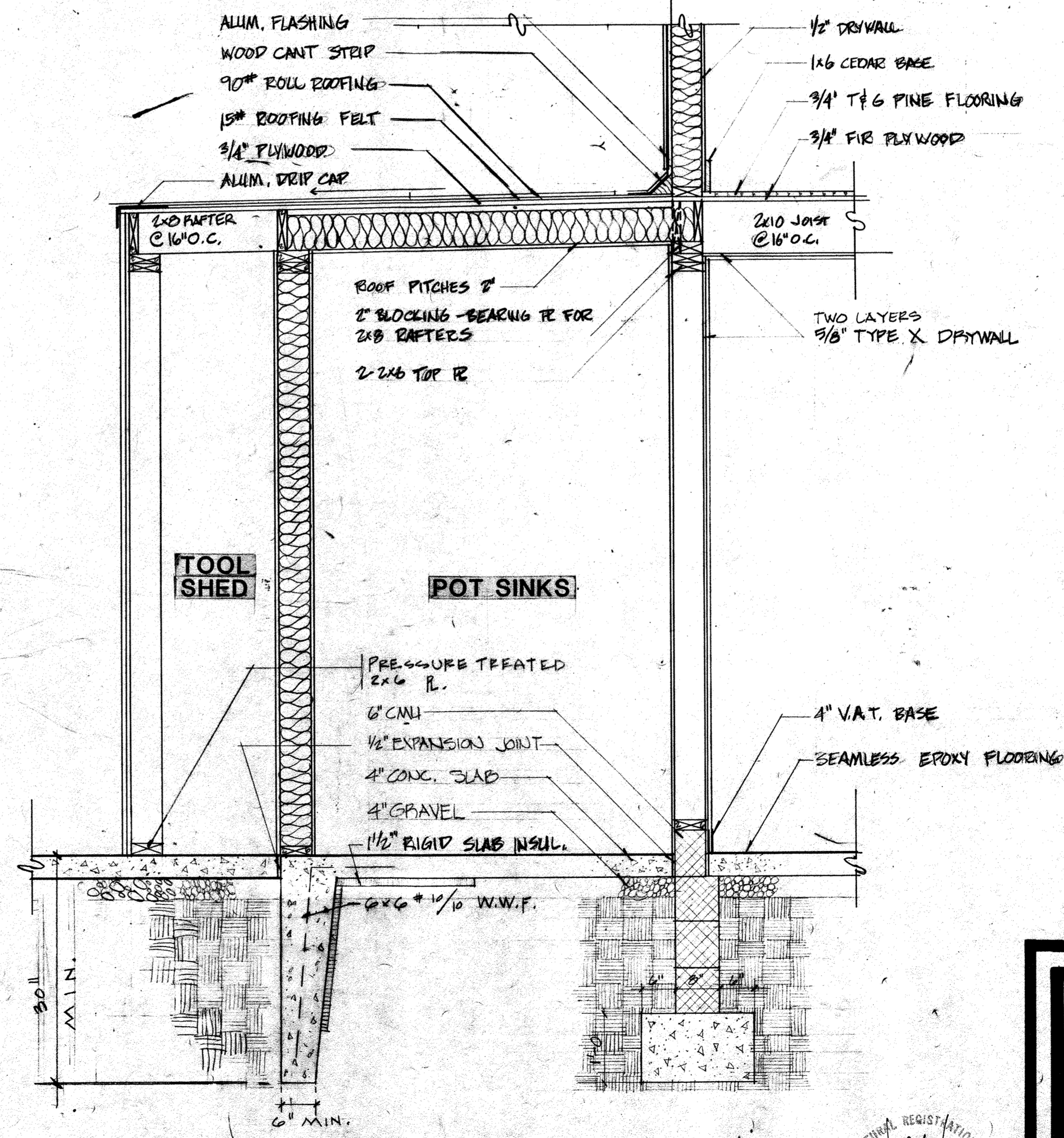
DETAIL: ROOF HIGH WALL
1/2" = 1'-0"



COLUMN DETAIL
3/4" = 1'-0"



SECTION A - A
1/4" = 1'-0"



SECTION B - B
3/4" = 1'-0"
Add Alternate #1

APPROVED: For Public Water, Drainage Systems and Roads	and Storm
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>[Signature]</i>	2-21-84
DIRECTOR	DATE
<i>[Signature]</i>	10-28-83
CHIEF, BUREAU OF ENGINEERING	DATE
APPROVED: For Public Water and Private Sewerage Systems	
HOWARD COUNTY HEALTH DEPARTMENT	
<i>[Signature]</i>	1-25-84
COUNTY HEALTH OFFICER	DATE
APPROVED: Howard County Office of Planning and Zoning	
<i>[Signature]</i>	8-29-84
PLANNING DIRECTOR	DATE
<i>[Signature]</i>	8-29-84
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION	DATE

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City, Elect. Dist. No. 2, Ho. Co. Tax Map No. 30 Law Docket A-3652

Liber 781 Folio 592, Parcel 345, 63.6 Ac.
Liber 333 Folio 62, Parcel (Partial) 10, 42.9 Ac.
Liber 507 Folio 437, Parcel 278, 61.45 Ac.

Adjacent Property Owners:

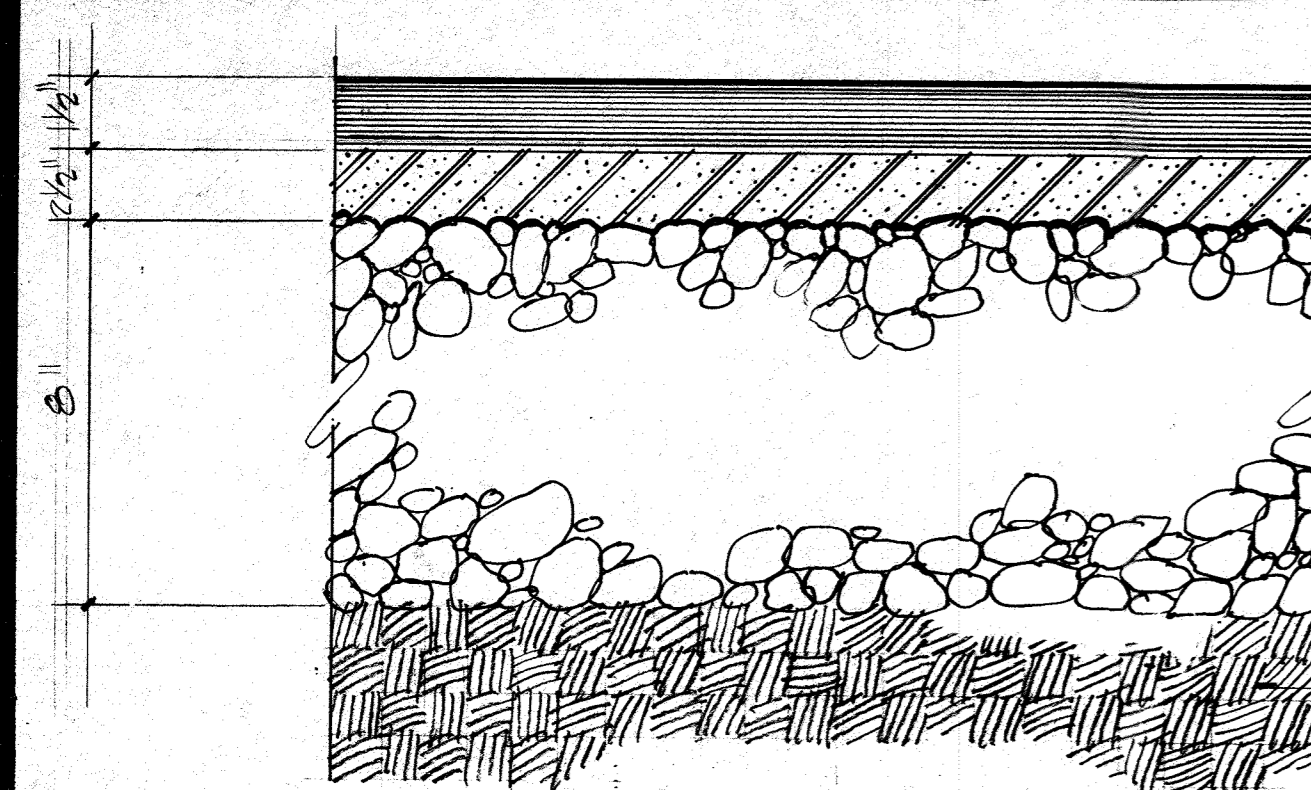
Liber	Folio	Acres	Parcel
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Taury, J. P.	611	589	1.23 149
	383	604	1.16 94

LD LAND DESIGN / RESEARCH, INC.
5560 STERRETT PLACE, SUITE 300
COLUMBIA, MARYLAND

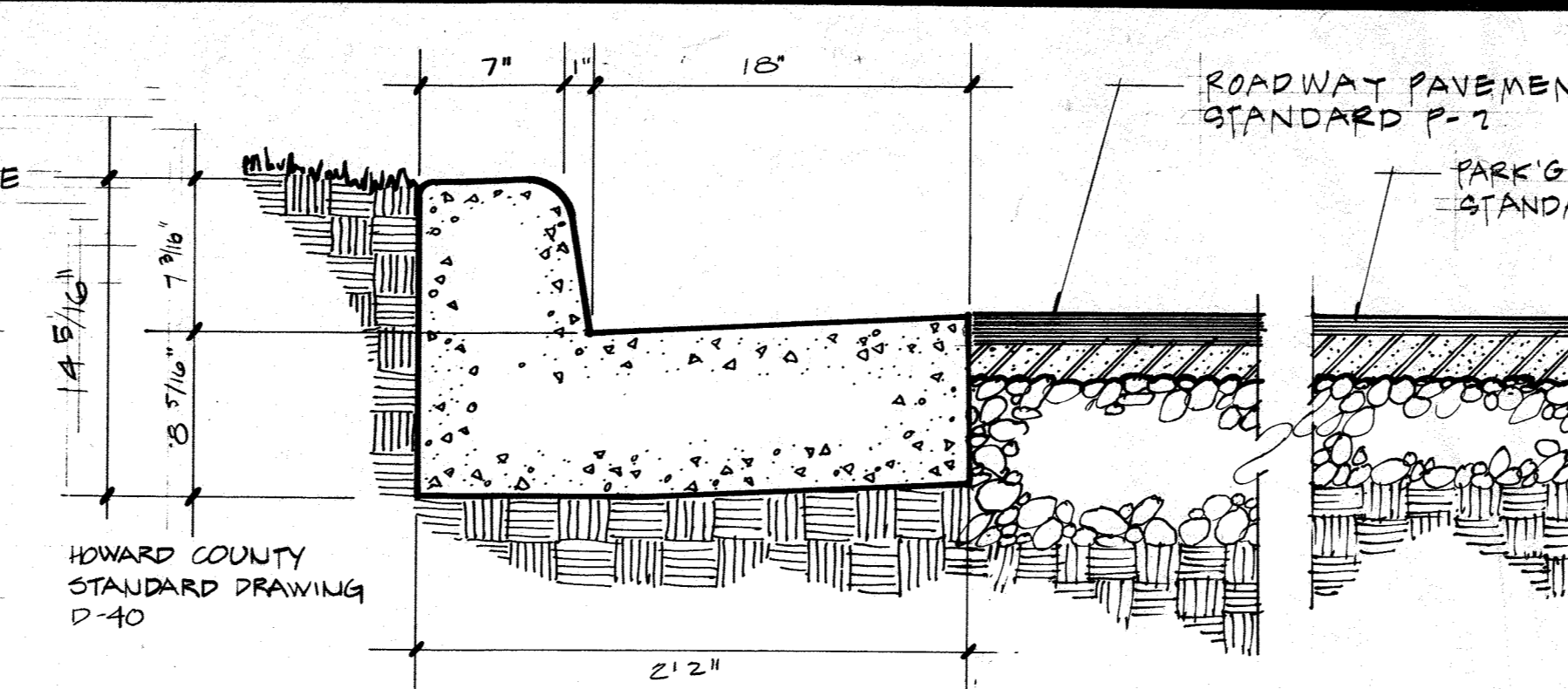
BOAT DOCK / CONCESSION
CLUSTER SECTIONS

CENTENNIAL PARK
PHASE FOUR - LAKESHORE SOUTH AREA

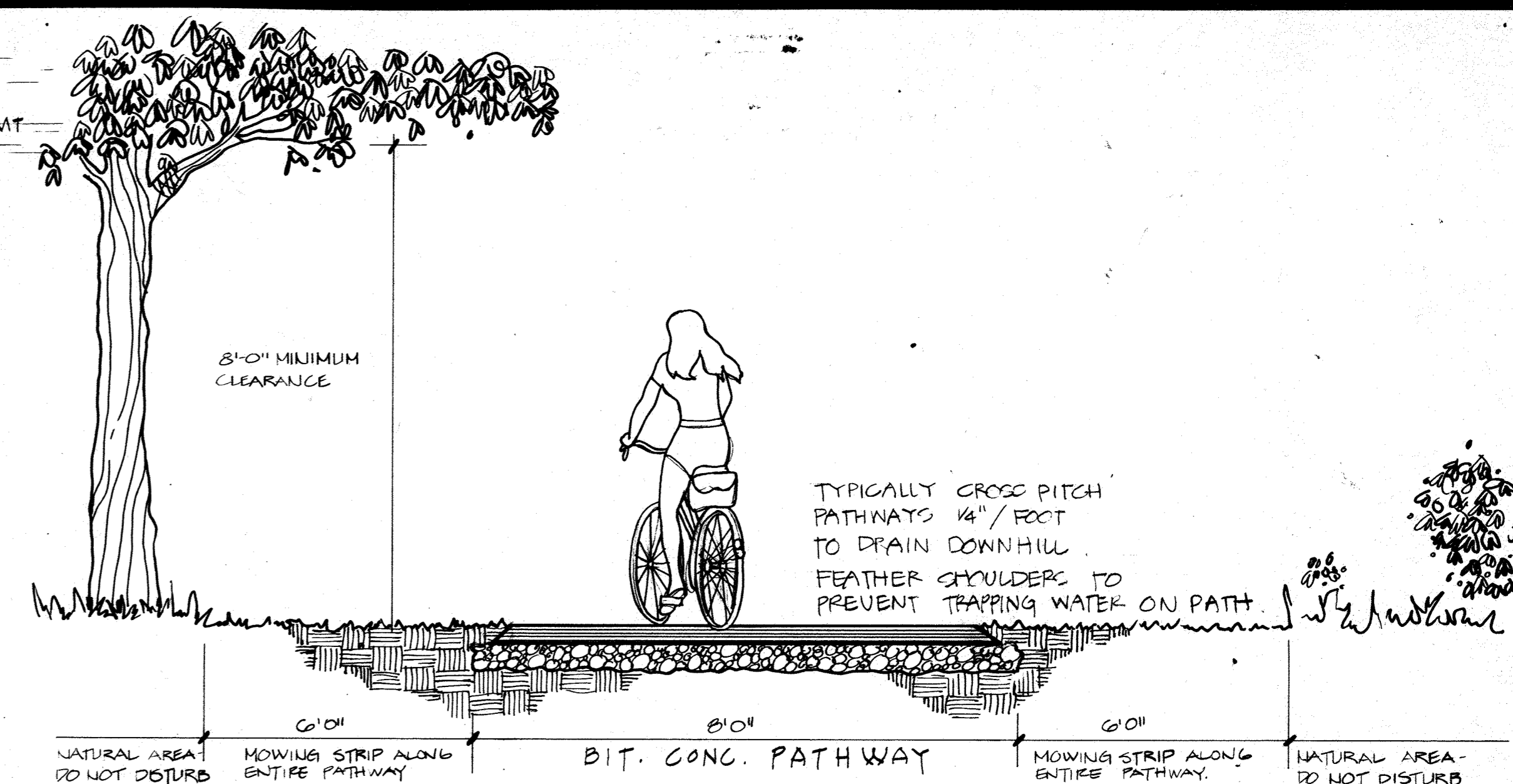
DATE	6-1-83	REVISIONS:		SHEET NO.
SCALE	AS SHOWN		5/11/84	22A
DRAWN	M.B.H.			OF 81
CHECKED	10-21-83			



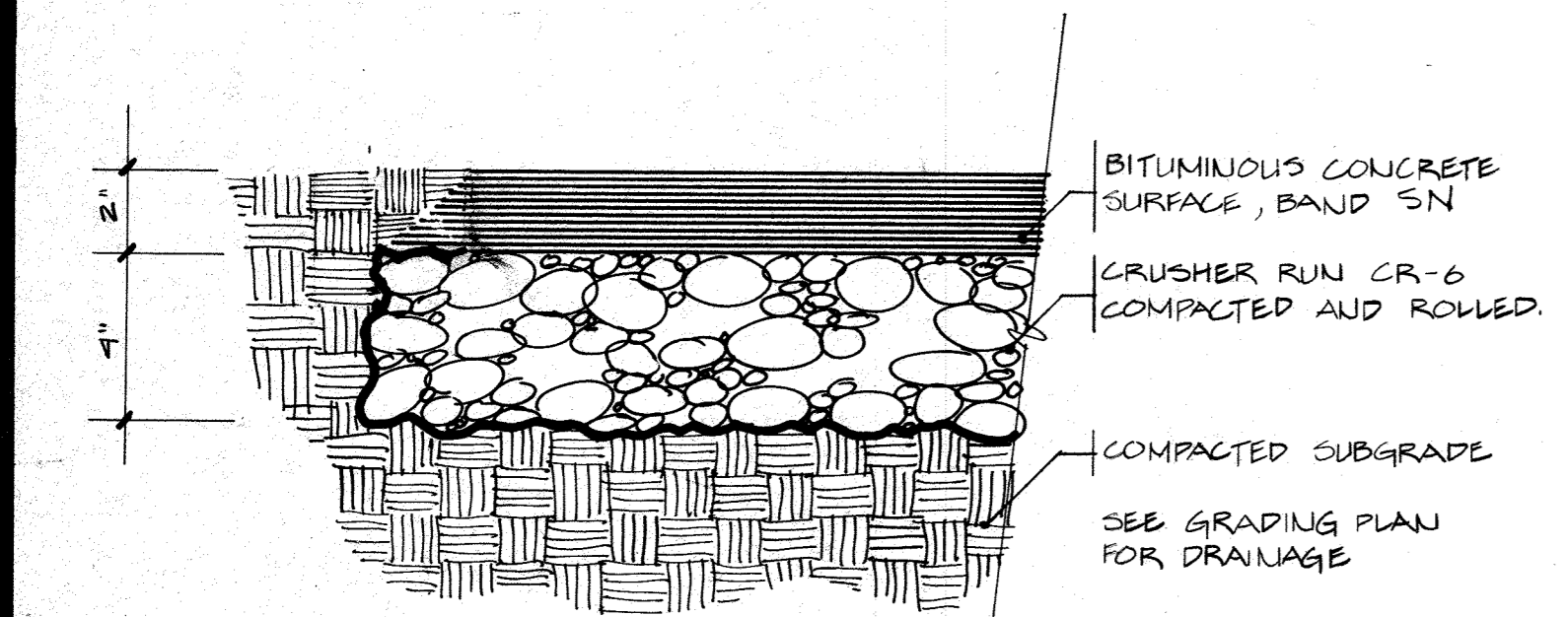
A ROADWAY PAVEMENT STAND. P-2
NO SCALE



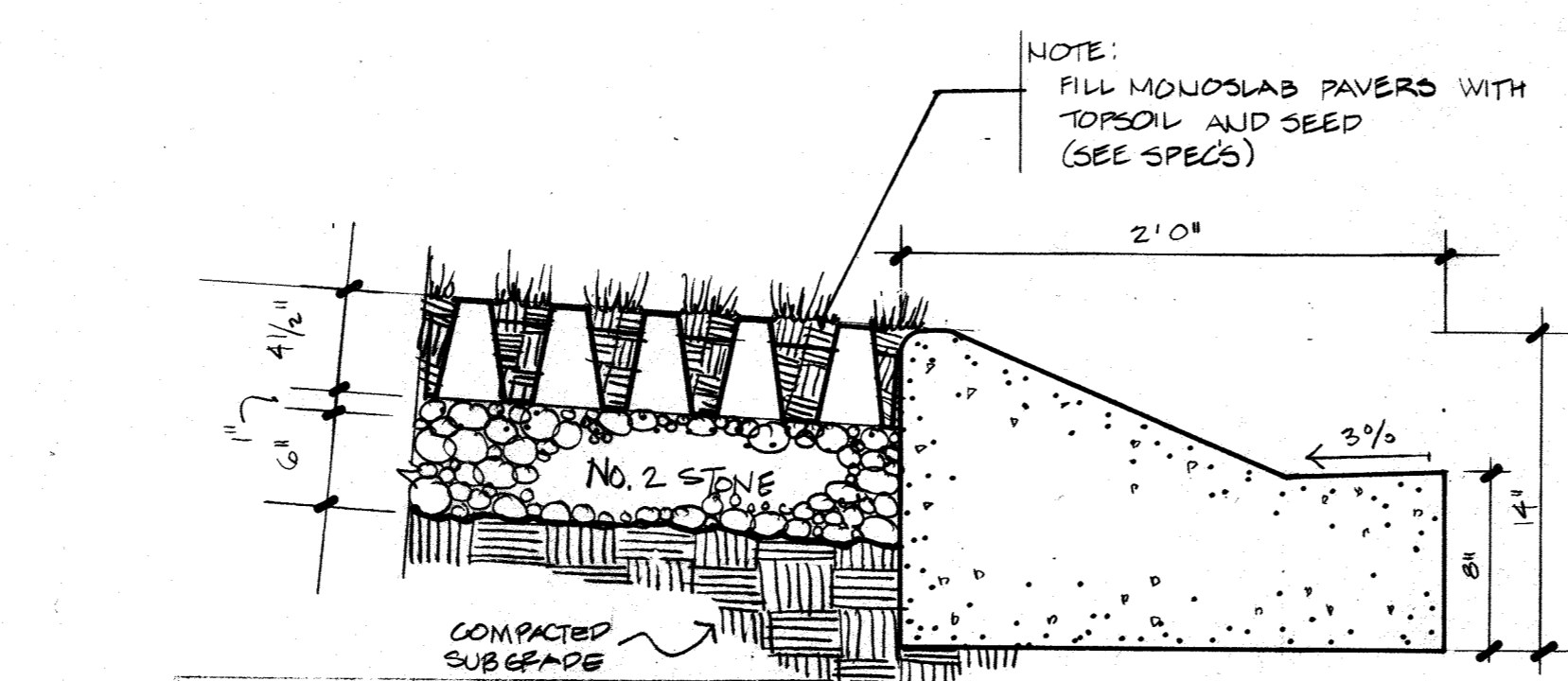
E STANDARD 7" COMBINATION CURB & GUTTER
SCALE 1/2" = 1'-0"



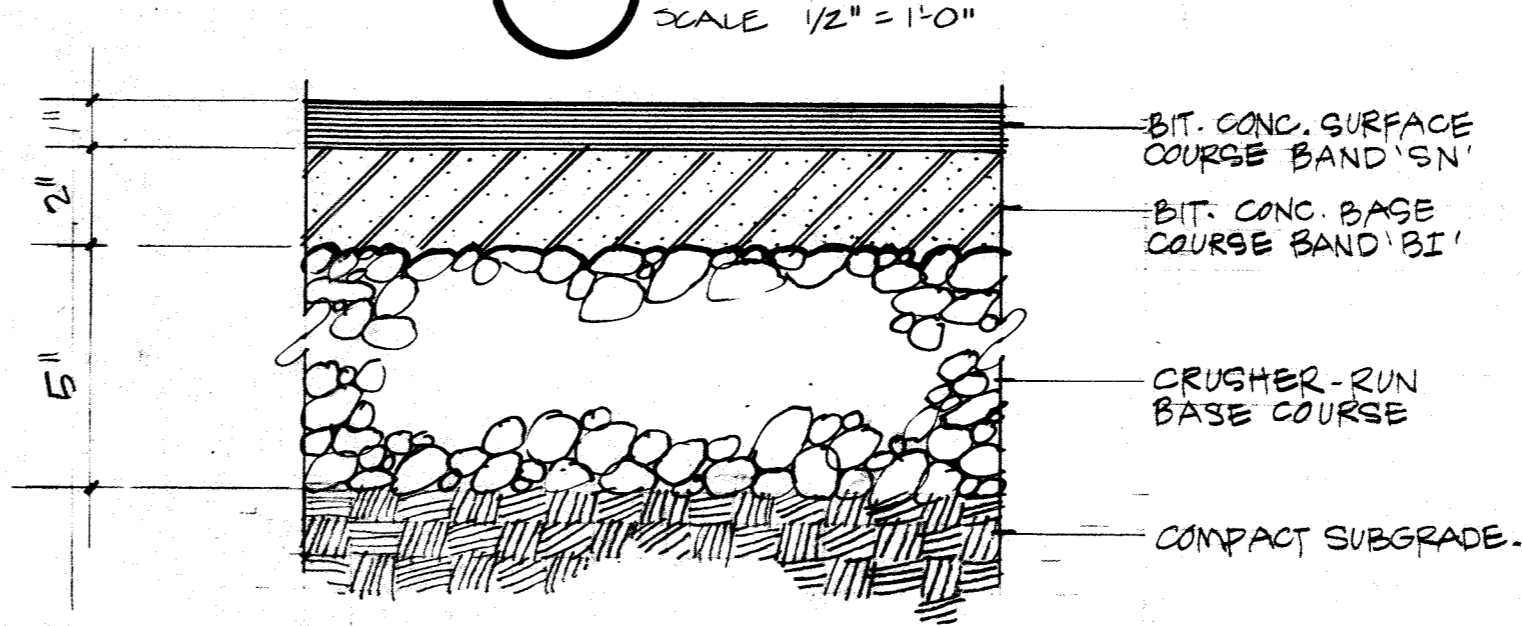
J TYPICAL CROSS SECTION 8" BIT. CONC. PATH
SCALE 1/2" = 1'-0"



B PATHWAY PAVEMENT
NO SCALE



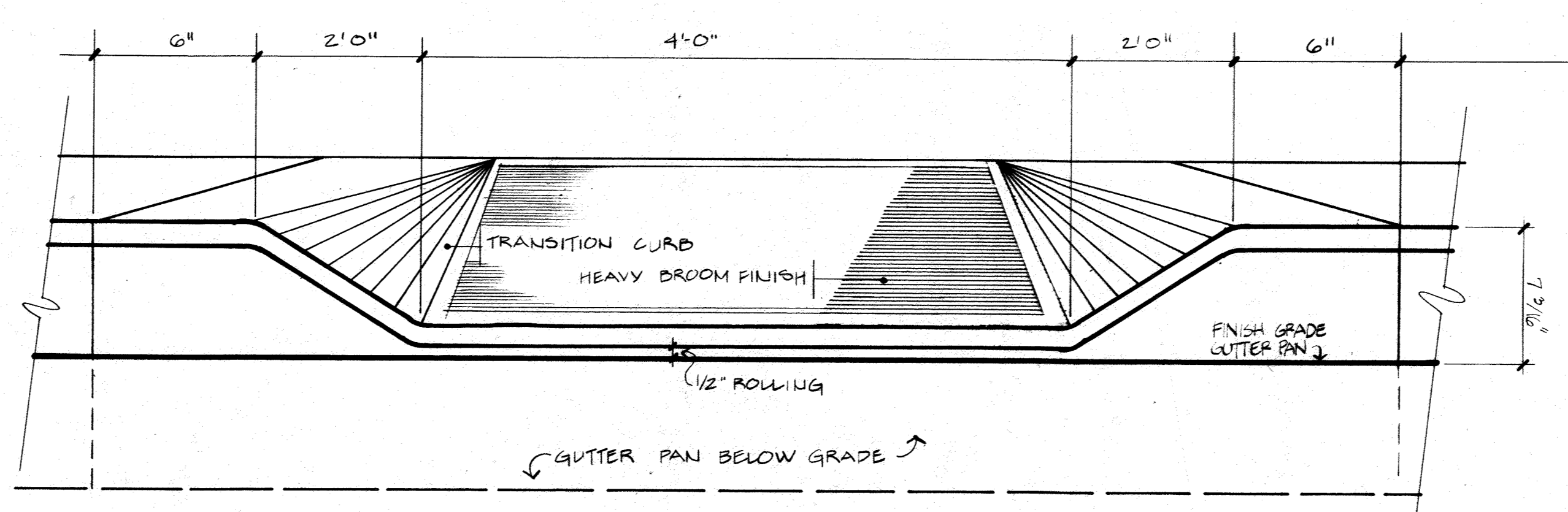
L GRASS BLOCK PAVEMENT
NOTE: MONOSLAB GRASS PAVERS BY SALCON INC., PULASKI HWY. AND ROSSVILLE BLVD., BALTIMORE, MD. 21237, OR APPROVED EQUAL. INSTALL TO MANUFACTURERS SPECIFICATIONS.
REFER TO PLATE R-3.02 HOWARD COUNTY DESIGN MAN VOL III FOR TRANSITION OF CURB



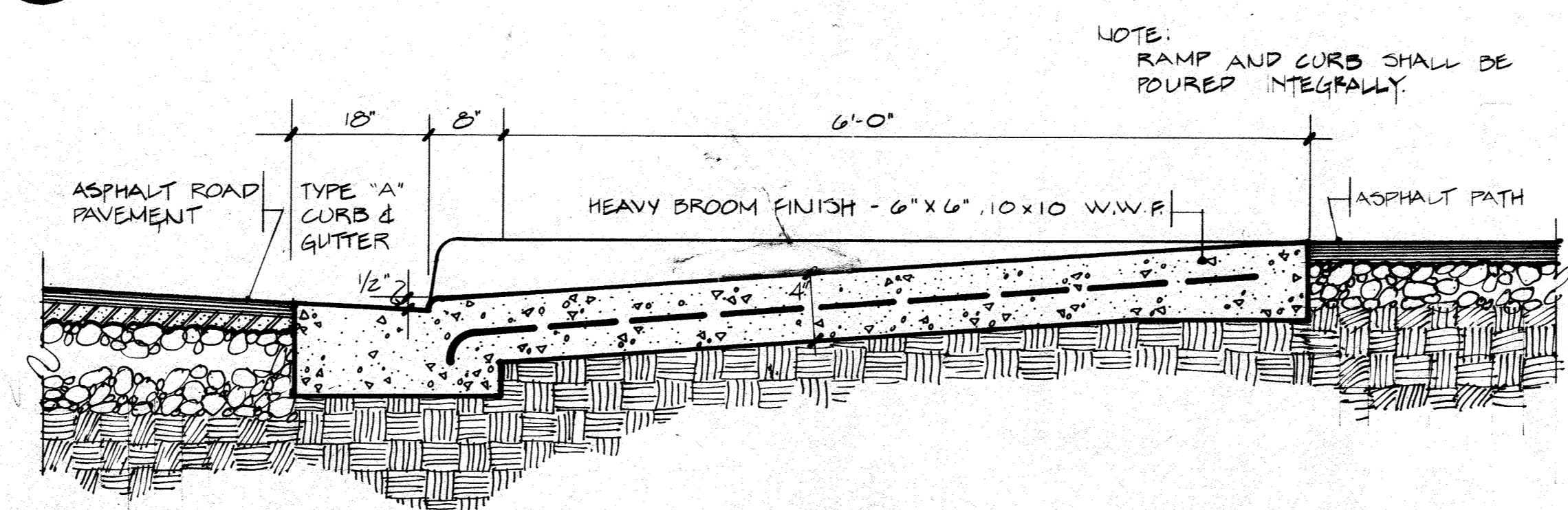
F PARKING LOT PAVEMENT STAND. P-1
NO SCALE

M ROADWAY PAVEMENT STAND P-5 GRANULAR BASE ALTERNATE
NO SCALE

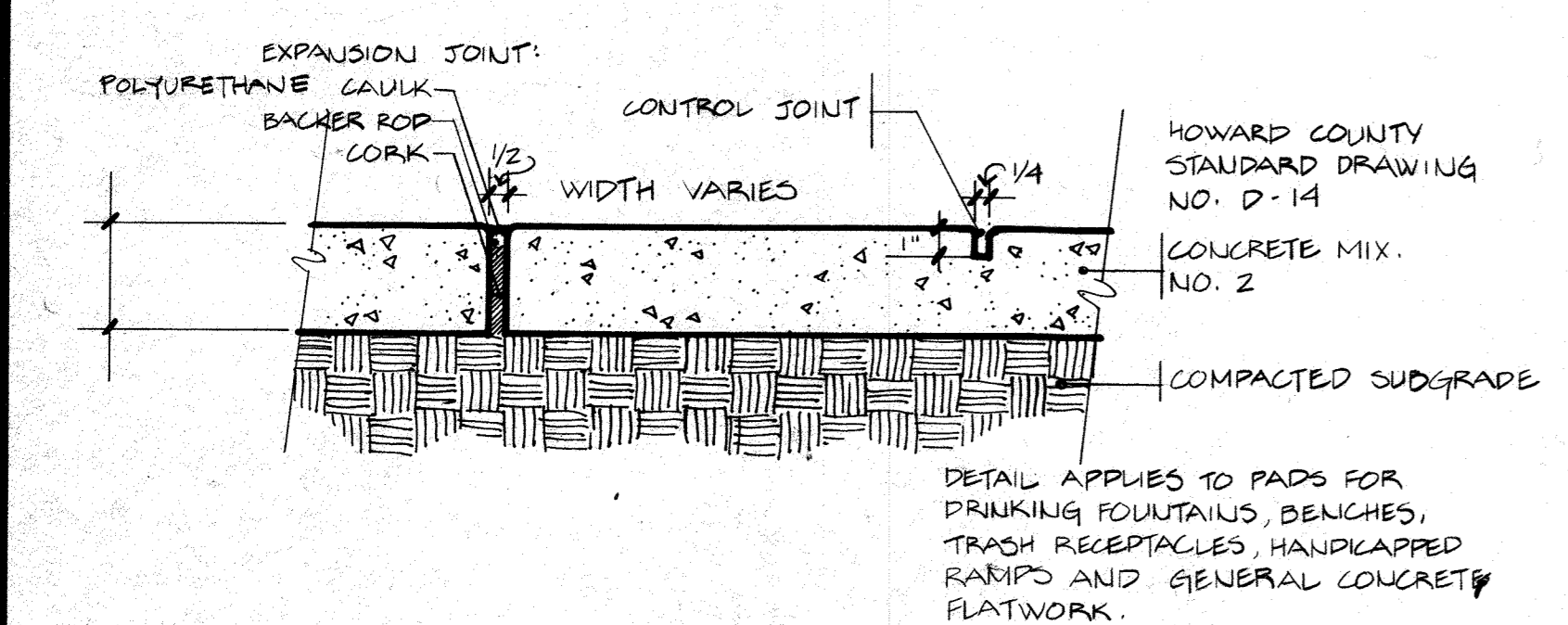
K MODIFIED COMB. CURB & GUTTER
NO SCALE



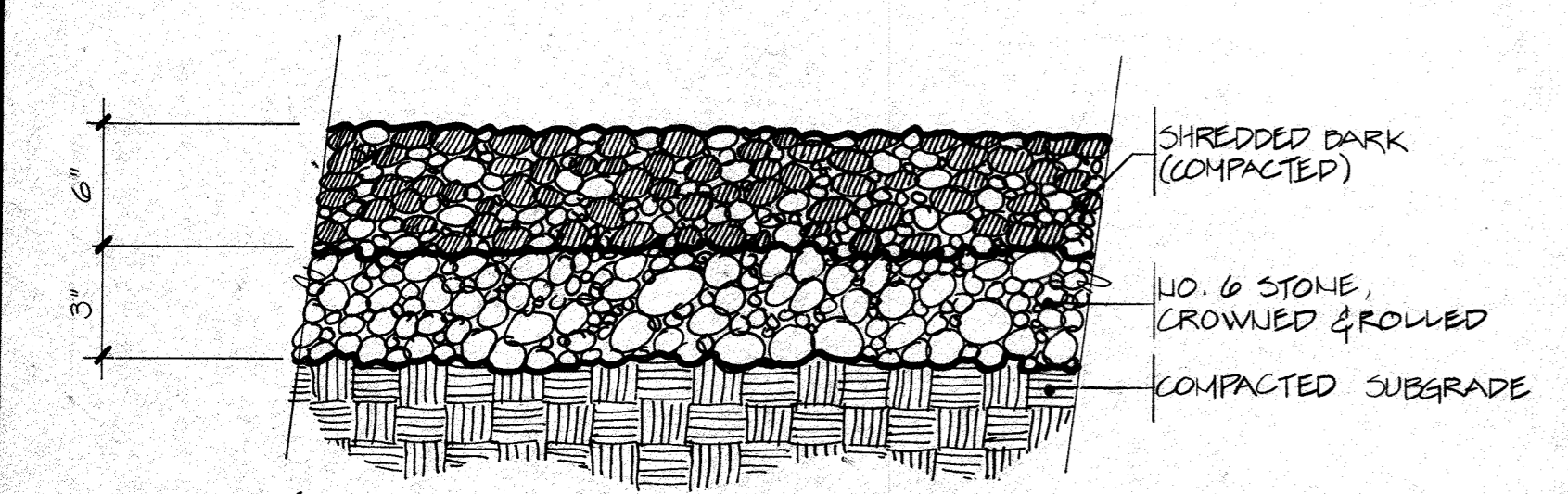
G FRONT ELEVATION HANDICAPPED RAMP
NO SCALE



H SECTION HANDICAPPED RAMP
SCALE 1" = 1'-0"



C CONCRETE PAVEMENT
NO SCALE



D WOOD CHIP SURFACING - ADD ALTERNATE #1
NO SCALE

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 2-17-84

APPROVED: For Public Water, Drainage Systems and Storm	and Storm
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>Steve F. Nemy</i>	8-21-84
DIRECTOR	DATE
<i>William J. Kelly</i>	10-28-83
CHIEF, BUREAU OF ENGINEERING	DATE
APPROVED: For Public Water and Private Sewerage Systems	
HOWARD COUNTY HEALTH DEPARTMENT	
<i>Joseph B. Gorman</i>	1-25-84
COUNTY HEALTH OFFICER	DATE
APPROVED: Howard County Office of Planning and Zoning	
<i>Thomas J. Smith</i>	8-29-84
PLANNING DIRECTOR	DATE
<i>William J. Kelly</i>	10-28-83
CHIEF, DIVISION OF LAND ADMINISTRATION AND ZONING ADMINISTRATION	DATE
Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City	
Elect. Dist. No. 2, Ho. Co. Tax Map No. 30	
Law Docket A-3652	
Liber 781 Folio 592, Parcel 345, 63.6 Ac.	
Liber 333 Folio 62, Parcel (Partial) 10, 42.9 Ac.	
Liber 507 Folio 437, Parcel 278, 61.45 Ac.	
Adjacent Property Owners:	
Legg, M. R.	Liber 875 471 1.01 126
Zaiser, W. J.	259 105 7.08 92
Saas, J. A.	274 299 2.36 93
Taury, J. P.	611 589 1.23 149
	383 604 1.16 94

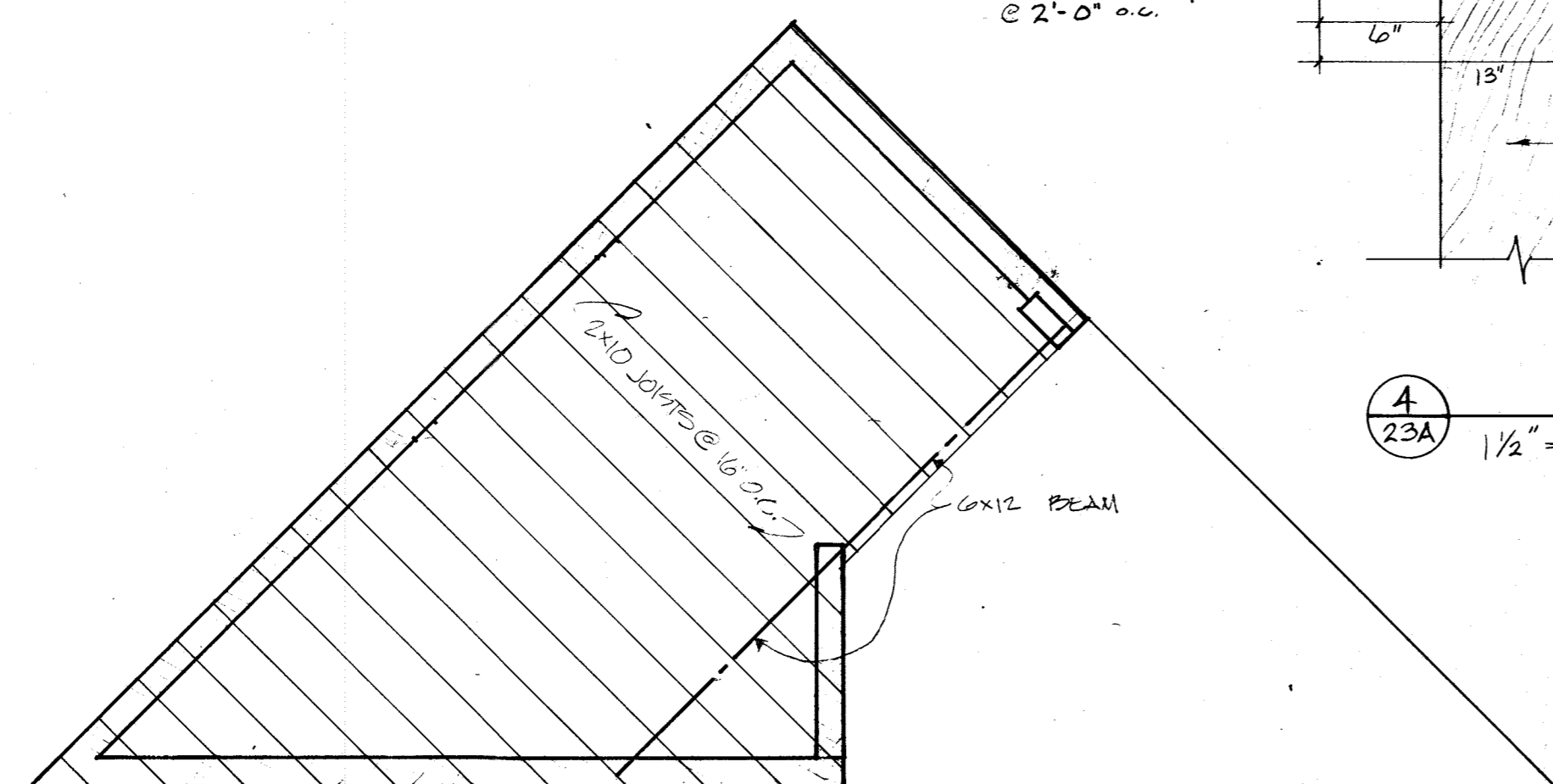


LD R LAND DESIGN / RESEARCH, INC.
5560 STERRETT PLACE, SUITE 300
COLUMBIA, MARYLAND

PAVING DETAILS

CENTENNIAL PARK
PHASE FOUR - LAKESHORE SOUTH AREA

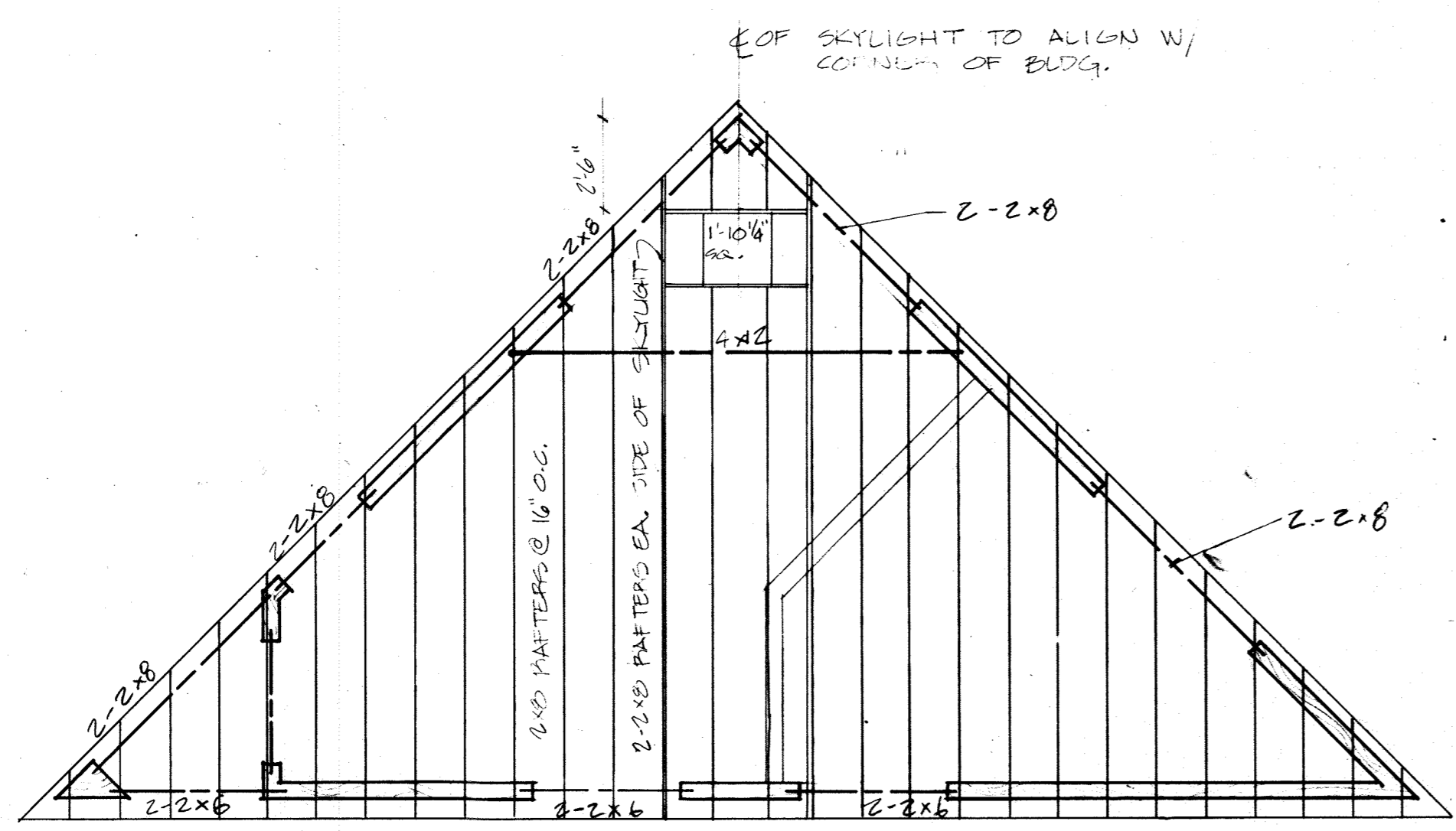
DATE	6-1-83	REVISIONS:	SHEET NO.
SCALE	1" = 30'-0"		23
DRAWN			OF 81
CHECKED	10-21-83		



FOR DIMENSIONS OF FOUNDATION WALL SEE FOUNDATION PLAN ON SHEET 15A.

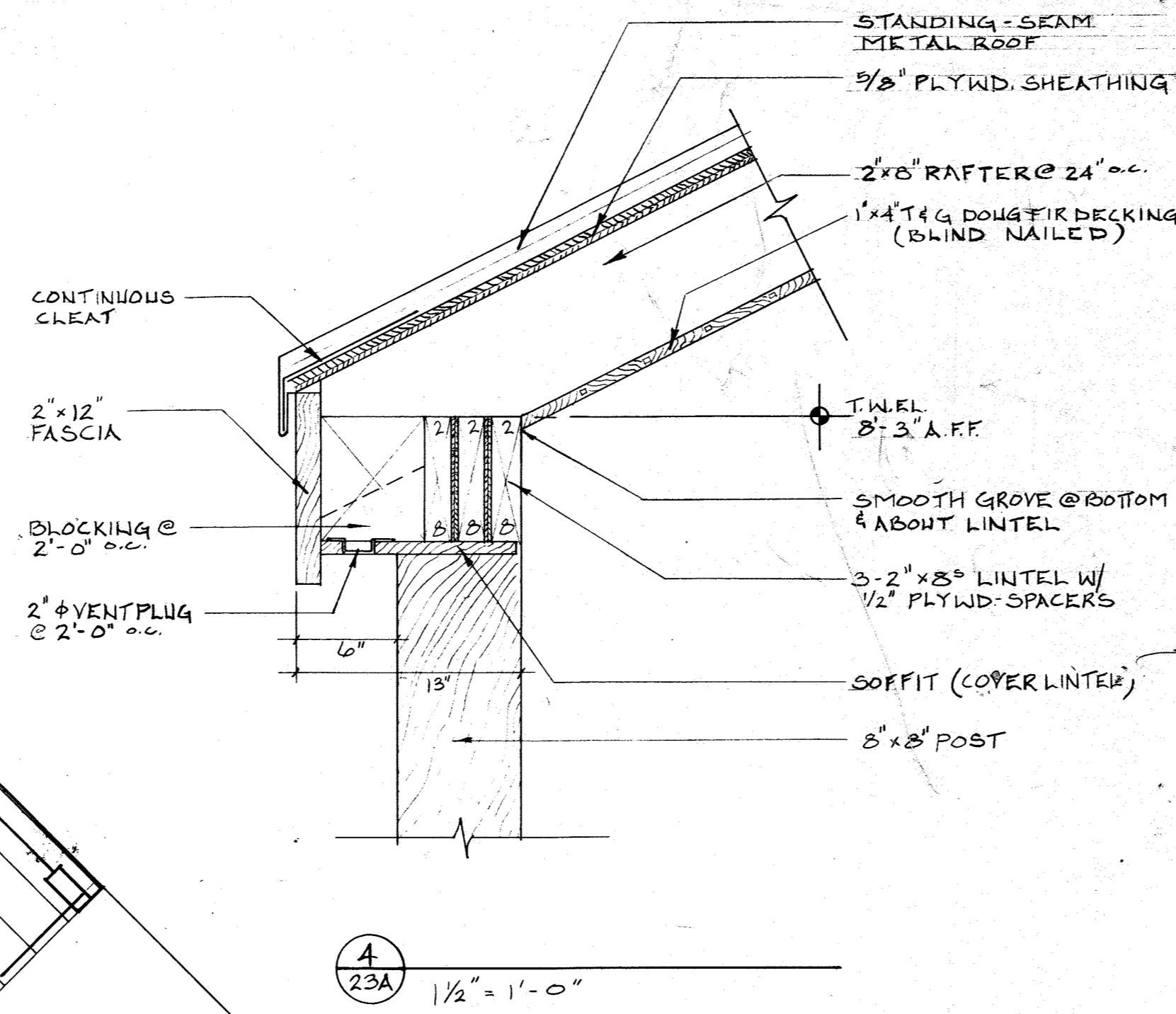
RENTAL PAVILION FLOOR FRAMING PLAN

1/4" = 1'-0"
Add Alternate #1



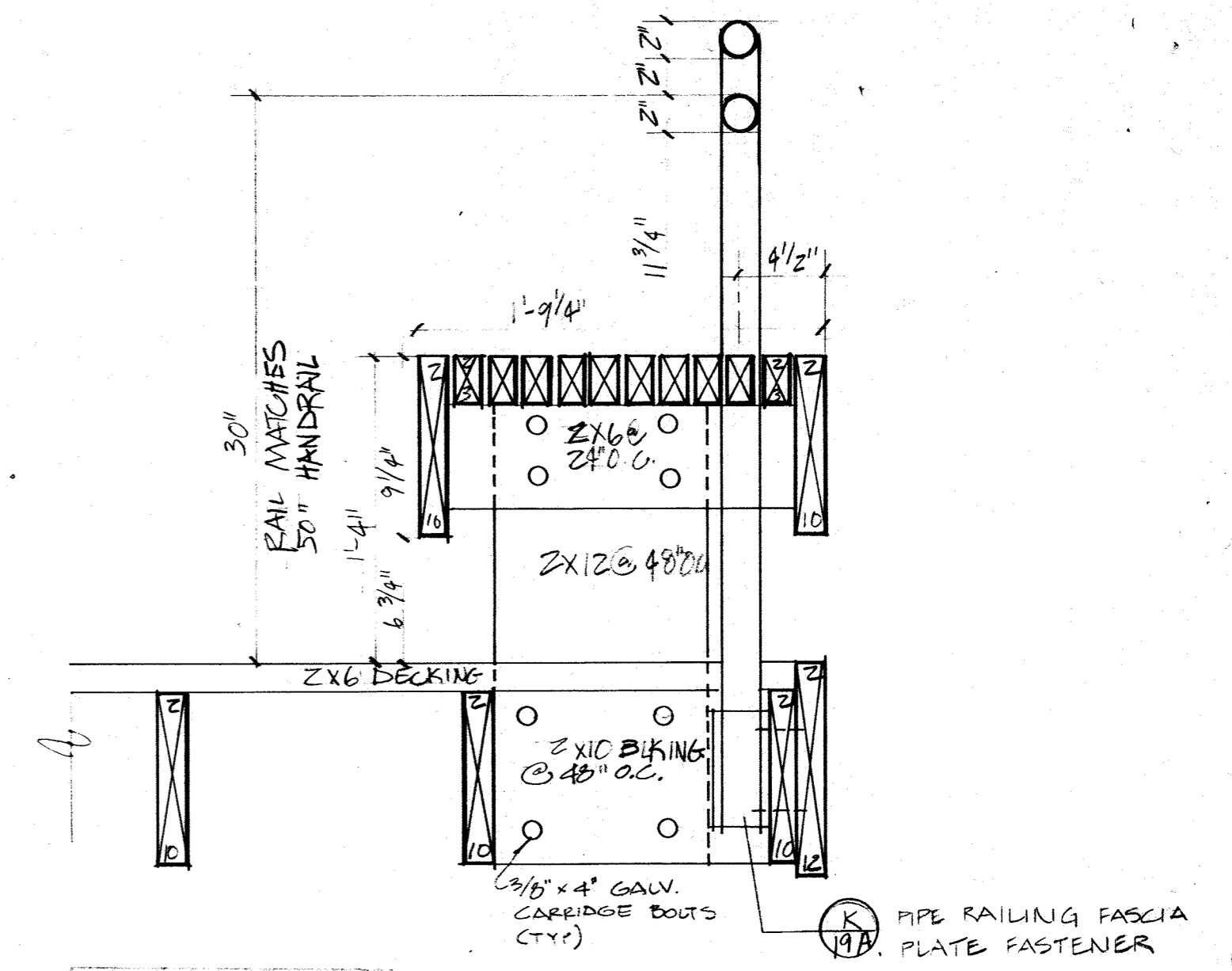
RENTAL PAVILION ROOF PLAN

1/4" = 1'-0"
Add Alternate #1



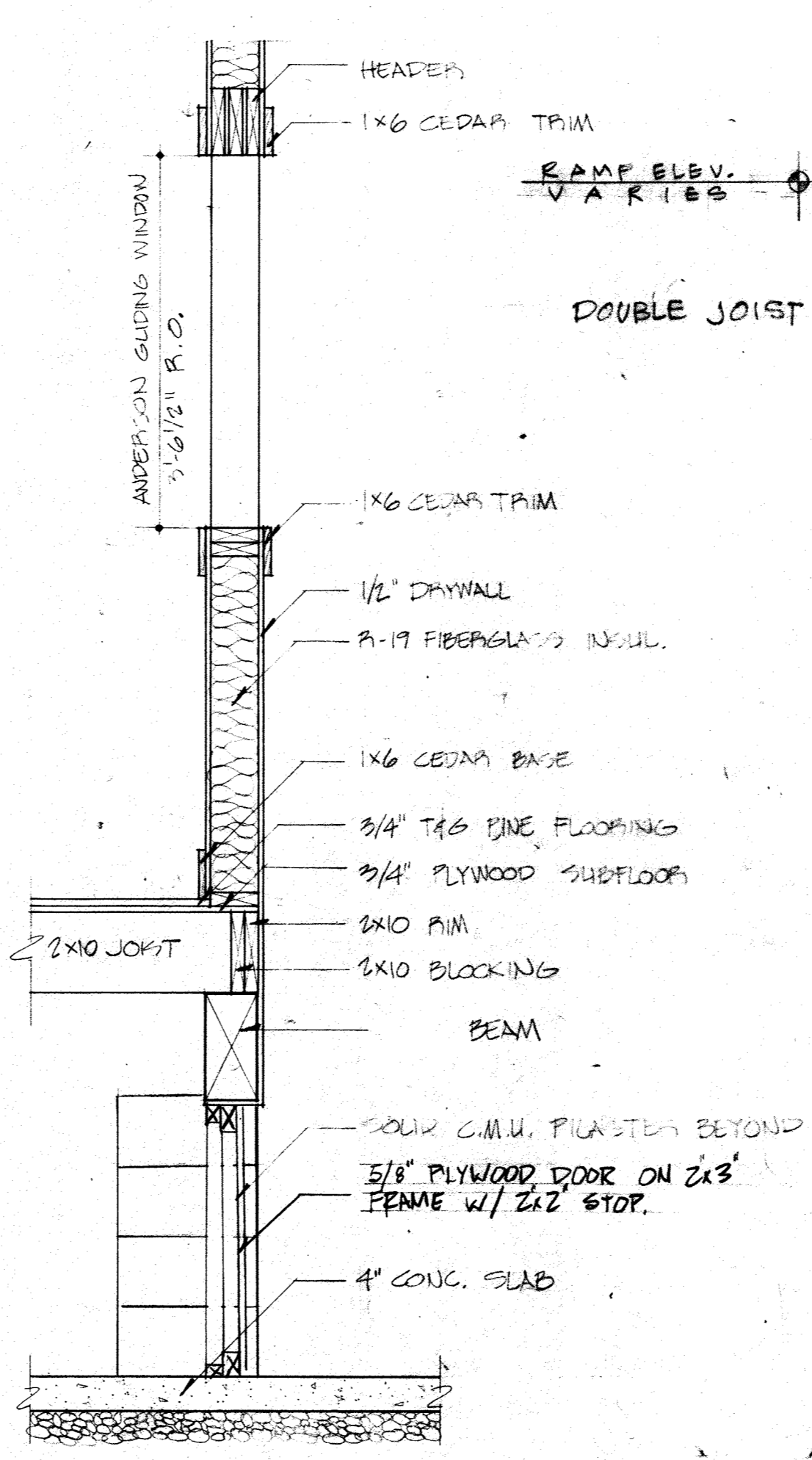
BENCH ELEVATION/HANDRAIL CONNECTION

1/2" = 1'-0"
NOTE: SEE SHEETS 16A & 19A FOR LOCATION OF HANDRAILS UNDER BASE BID.



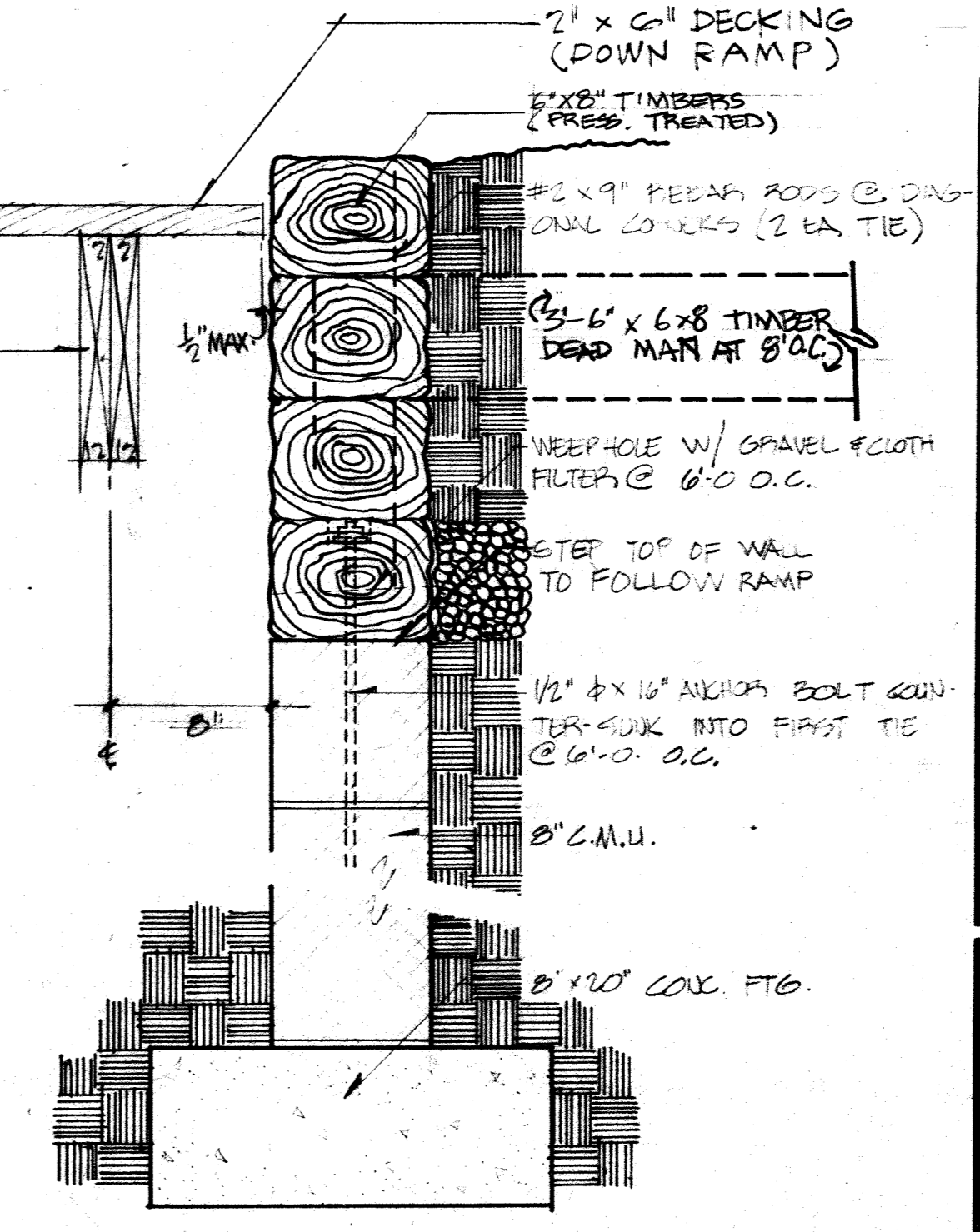
BENCH DETAIL

1/2" = 1'-0"



OFFICE WALL SECTION

1/4" = 1'-0"
Add Alternate #1



PLANTER WALL SECTION

1/2" = 1'-0"
Add Alternate #1

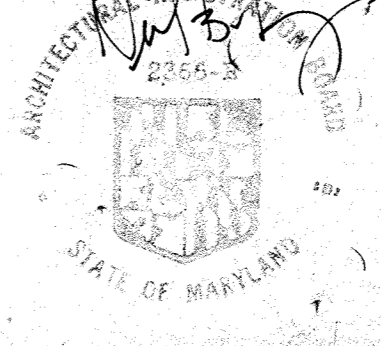
APPROVED: For Public Water, Drainage Systems and Roads	and Storm
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>Steve Nummy</i>	8-28-83
DIRECTOR	DATE
<i>John R. ...</i>	10-28-83
CHIEF, BUREAU OF ENGINEERING	DATE
APPROVED: For Public Water and Sewerage Systems	Private
HOWARD COUNTY HEALTH DEPARTMENT	
<i>John R. ...</i>	1-20-84
COUNTY HEALTH OFFICER	DATE
APPROVED: Howard County Office of Planning and Zoning	
<i>Thomas L. ...</i>	8-29-84
PLANNING DIRECTOR	DATE
<i>...</i>	8-29-84
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION	DATE

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City, Elect. Dist. No. 2, Ho. Co. Tax Map No. 30 Law Docket A-3652

Liber 781 Folio 592, Parcel 345, 63.6 Ac.
Liber 333 Folio 62, Parcel (Partial) 10, 42.9 Ac.
Liber 507 Folio 437, Parcel 278, 61.45 Ac.

Adjacent Property Owners:

Liber	Folio	Acres	Parcel
Legg, M. R.	875	471	1.01 126
Zaiser, W. J.	259	105	7.08 92
Saas, J. A.	274	299	2.36 93
Taury, J. P.	611	589	1.23 149
	383	604	1.16 94



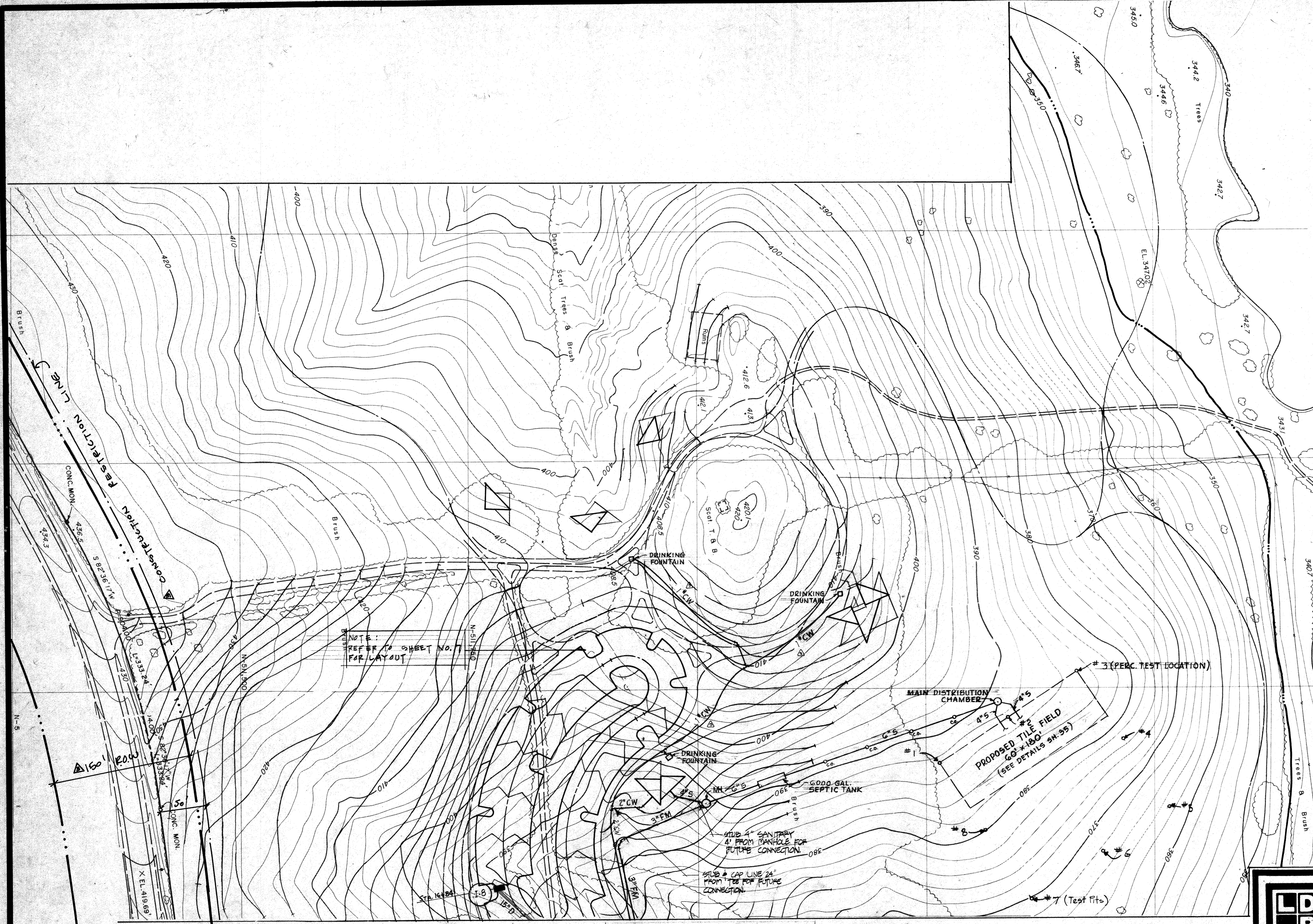
LD LAND DESIGN / RESEARCH, INC.
5560 STERRETT PLACE, SUITE 300
COLUMBIA, MARYLAND

BOAT DOCK / CONCESSION

CLUSTER Roof/Floor Framing Plans

CENTENNIAL PARK
PHASE FOUR - LAKESHORE SOUTH AREA

DATE	6-1-85	REVISIONS:	SHEET NO.
SCALE	AS SHOWN		23A
DRAWN	M. B. H.		OF 81
CHECKED	10-21-83		



APPROVED: For Public Water, and Storm Drainage Systems and Roads
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Henry F. Nummy 8-28-81
 DIRECTOR DATE
 10-28-83
 CHIEF, BUREAU OF ENGINEERING DATE

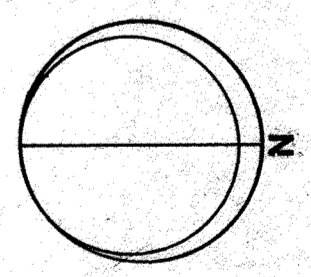
APPROVED: For Public, and Private Sewerage Systems
 HOWARD COUNTY HEALTH DEPARTMENT
 1-27-84
 COUNTY HEALTH OFFICER DATE

APPROVED: Howard County Office of Planning and Zoning
 8-29-84
 PLANNING DIRECTOR DATE
 8-29-84
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City
 Elect. Dist. No. 2, Ho. Co. Tax Map No. 30
 Law Docket A-3652
 Liber 781 Folio 592, Parcel 345, 63.6 Ac.
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 Liber 507 Folio 437, Parcel 278, 61.45 Ac.
 Adjacent Property Owners:

Owner	Liber	Folio	Acres	Parcel
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Zaiser, W. J.	259	105	7.08	92
Saas, J. A.	274	299	2.36	93
Taury, J. P.	611	589	1.23	149
	383	604	1.16	94

APPROVED
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 2-17-84

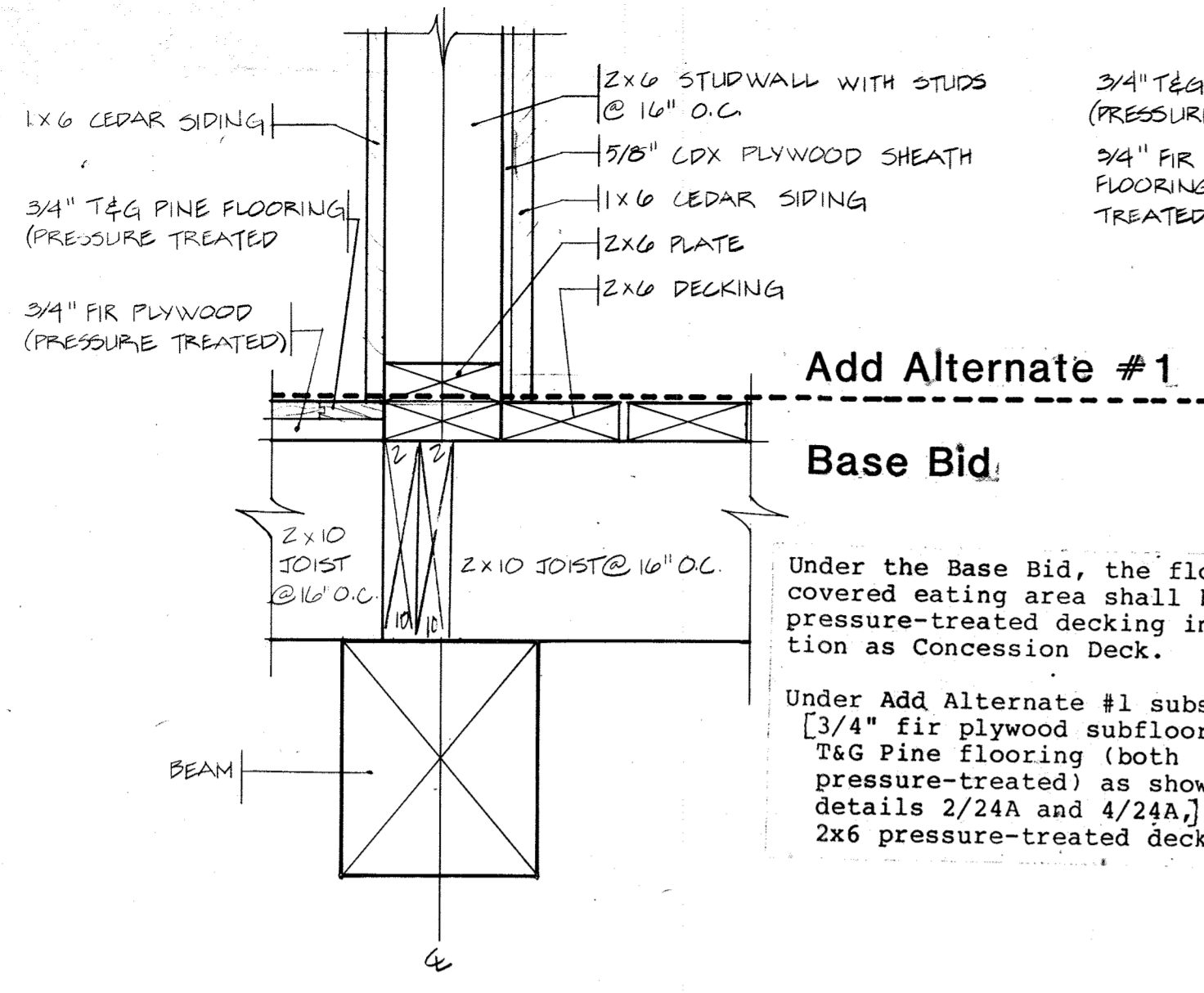


LD R LAND DESIGN / RESEARCH, INC.
 5560 STERRETT PLACE, SUITE 300
 COLUMBIA, MARYLAND

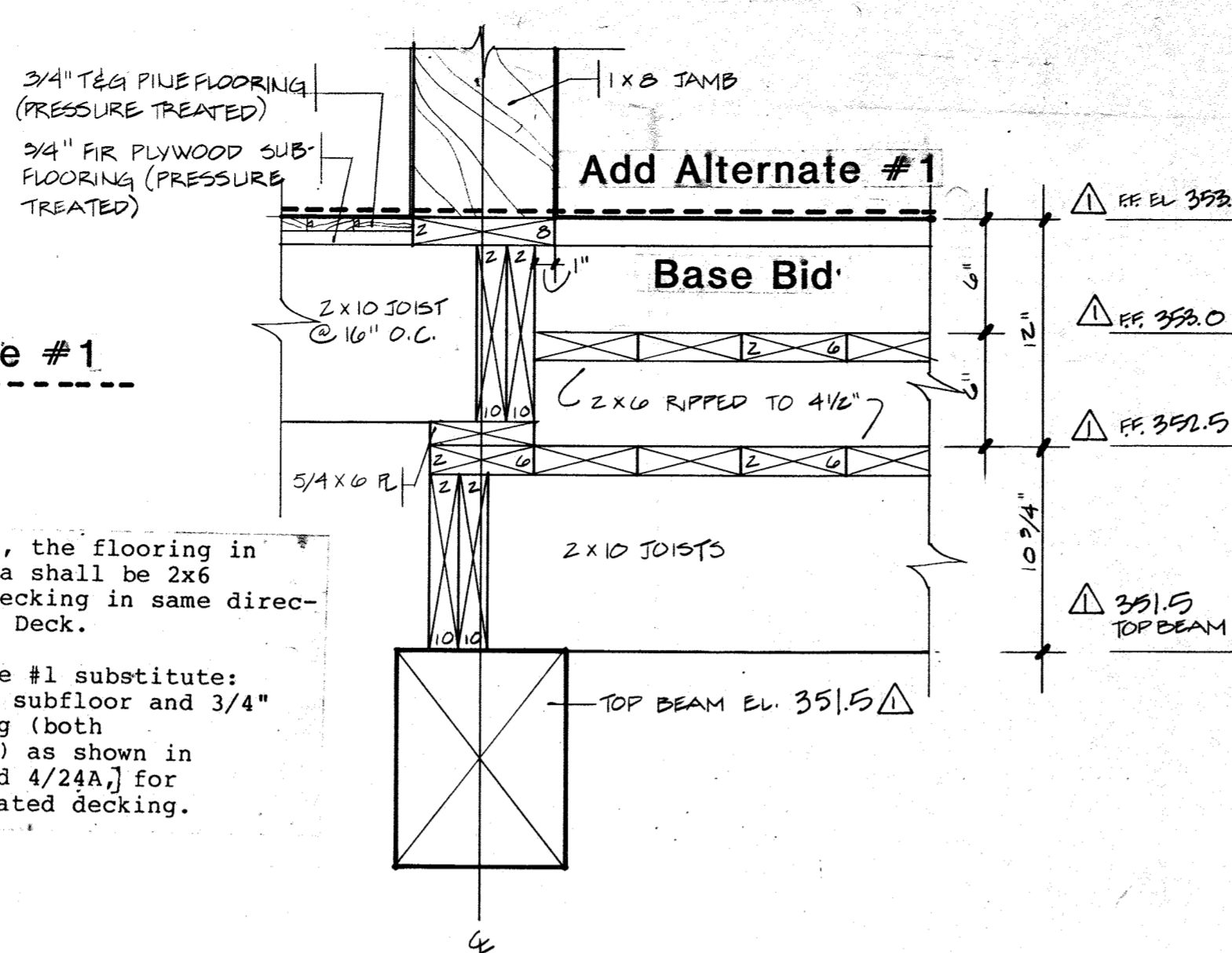
AREA B
 UTILITY PLAN
 CENTENNIAL PARK
 PHASE FOUR - LAKESHORE SOUTH AREA

DATE	8-1-83	REVISIONS:	8-20-84	SHEET NO.
SCALE	1" = 50'			24
DRAWN				OF 81
CHECKED	10-21-83			

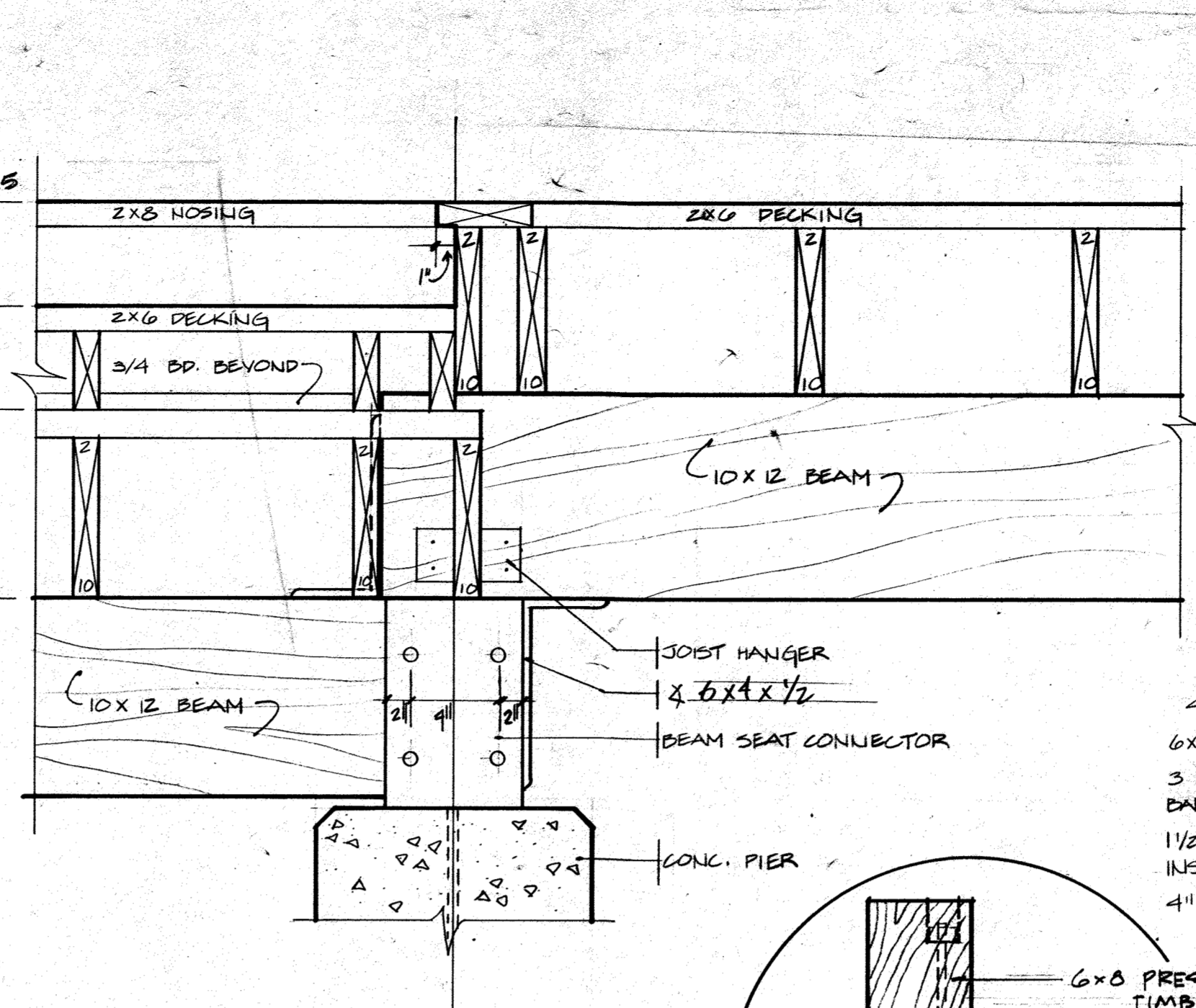
Gene D. Roberts



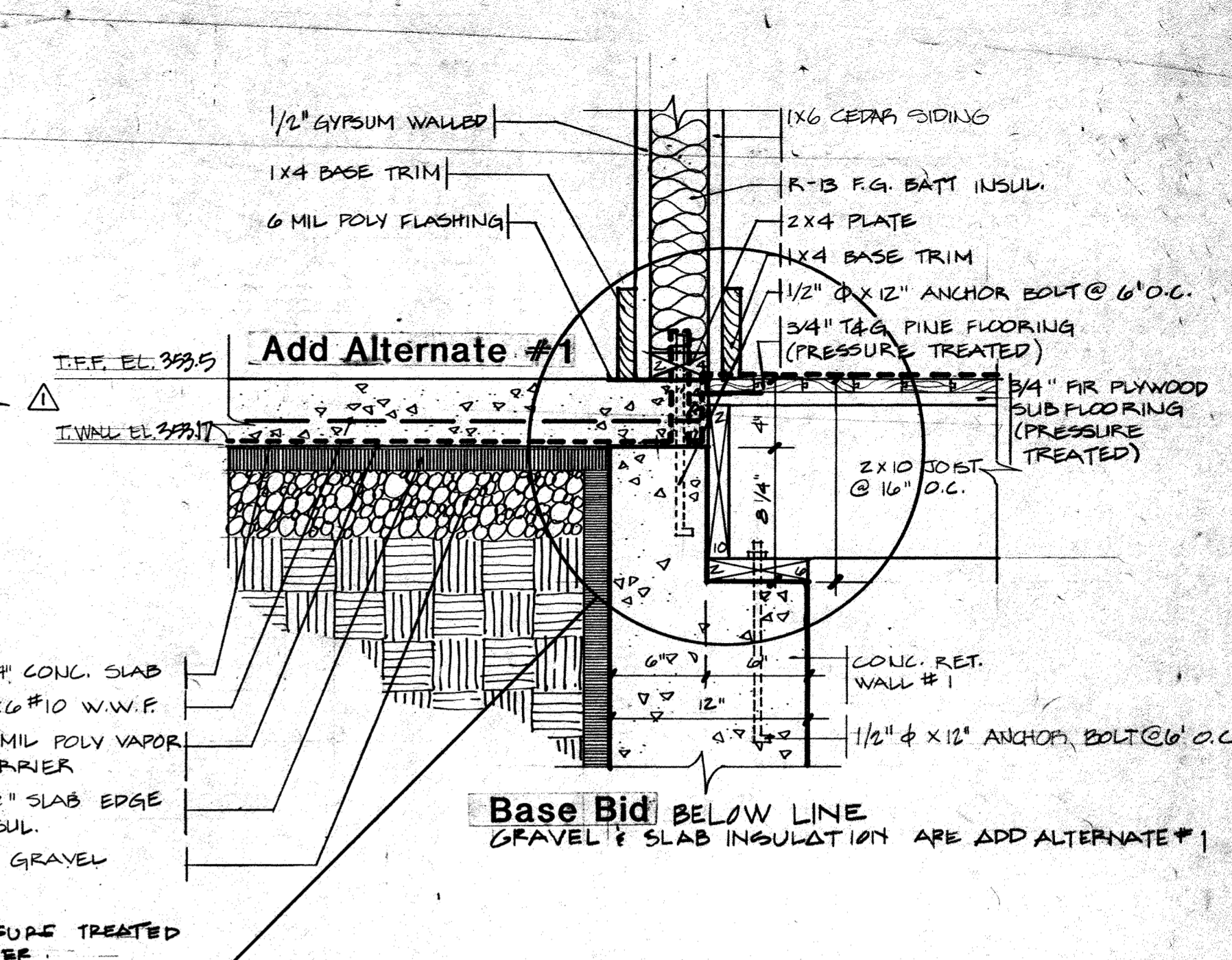
1 STUD TO DECK DETAIL
24A NTD



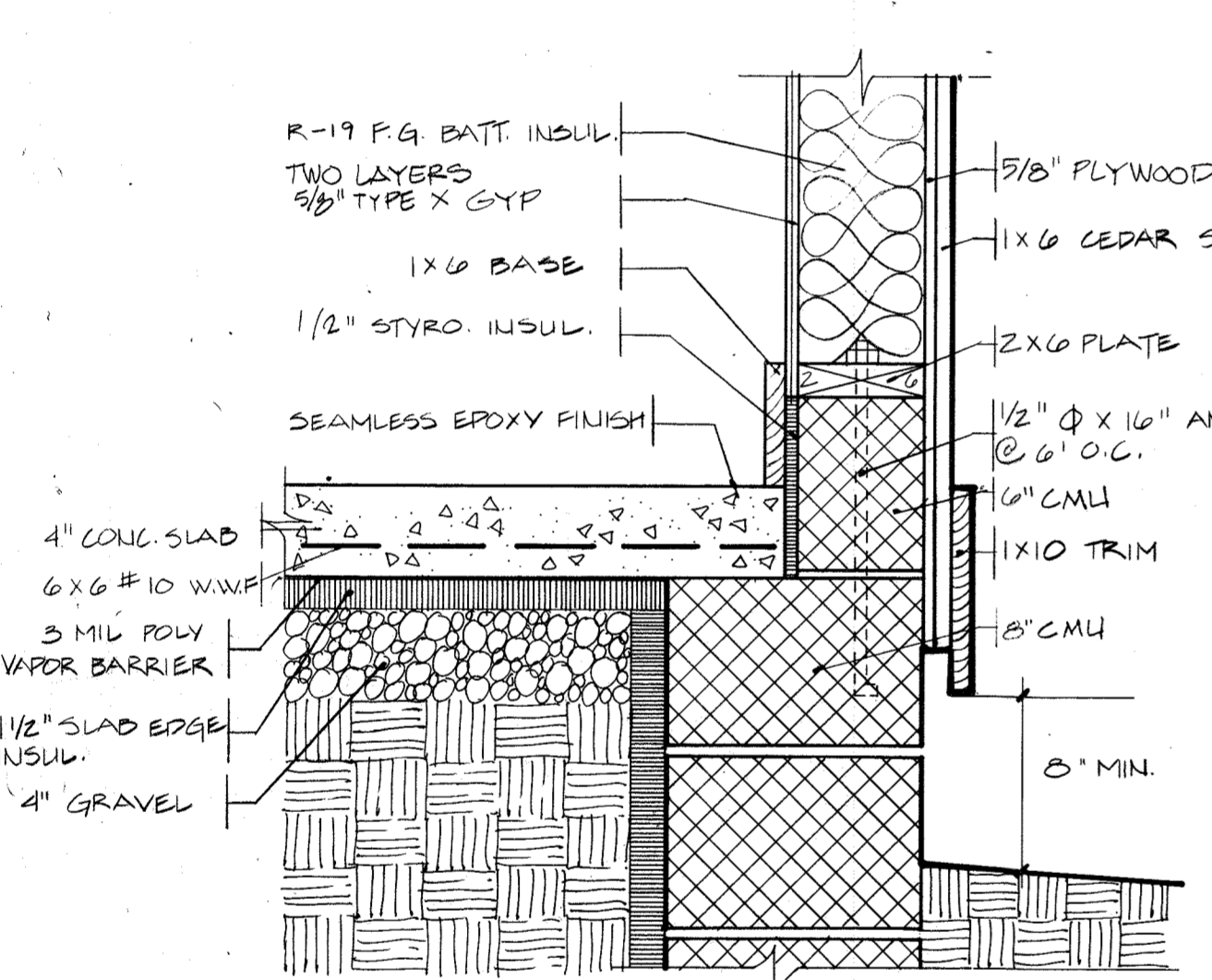
2 WALL & RAMP DETAIL
24A SCALE 1/2" = 1'-0"



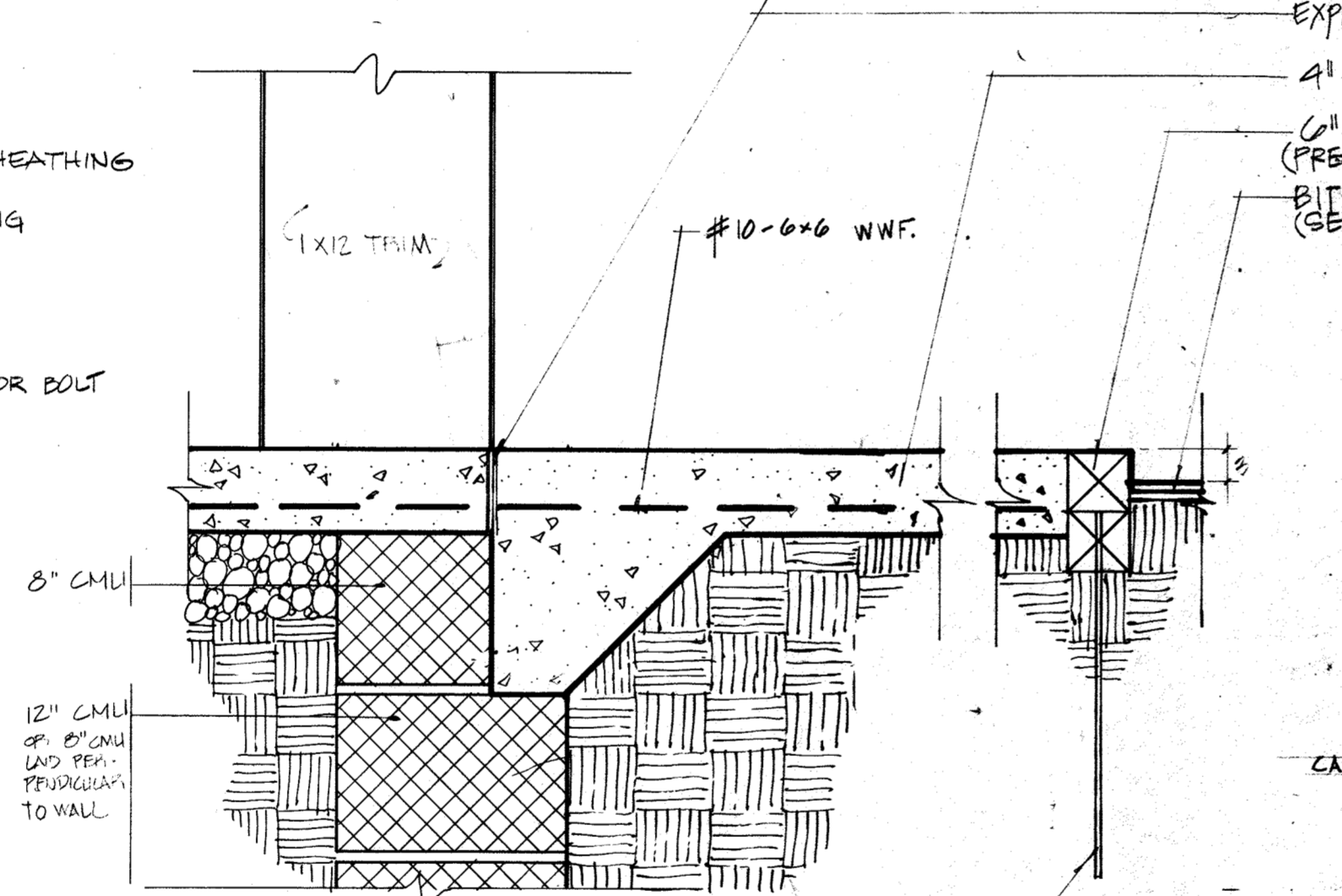
3 RAMP DETAIL
24A SCALE 1/2" = 1'-0"
Base Bid.



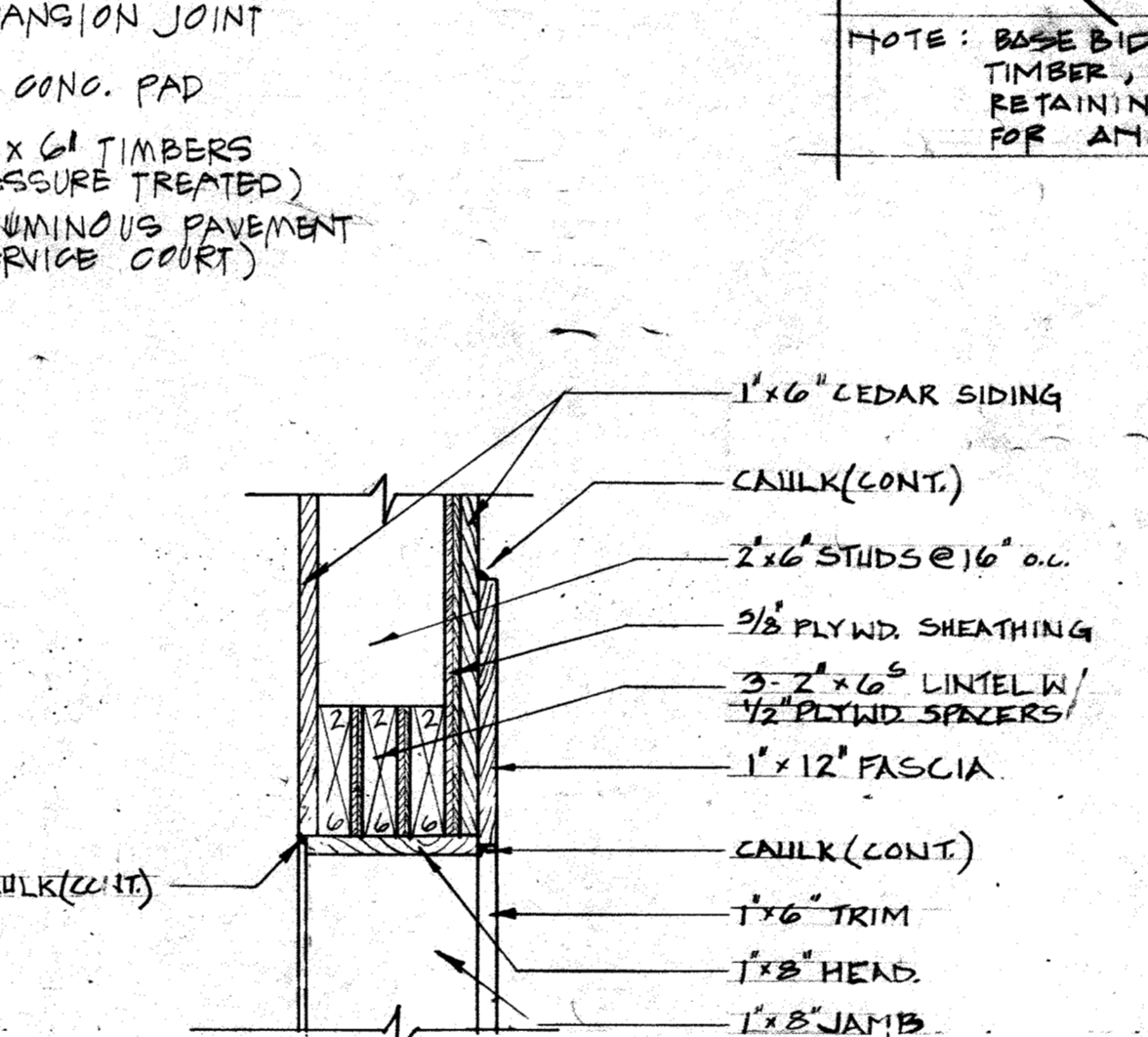
4 STUD TO SLAB & DECK DETAIL
24A SCALE 1/2" = 1'-0"
Under the Base Bid, the flooring in covered eating area shall be 2x6 pressure-treated decking in same direction as Concession Deck.
Under Add Alternate #1 substitute: [3/4" fir plywood subfloor and 3/4" T&G Pine flooring (both pressure-treated) as shown in details 2/24A and 4/24A] for 2x6 pressure-treated decking.



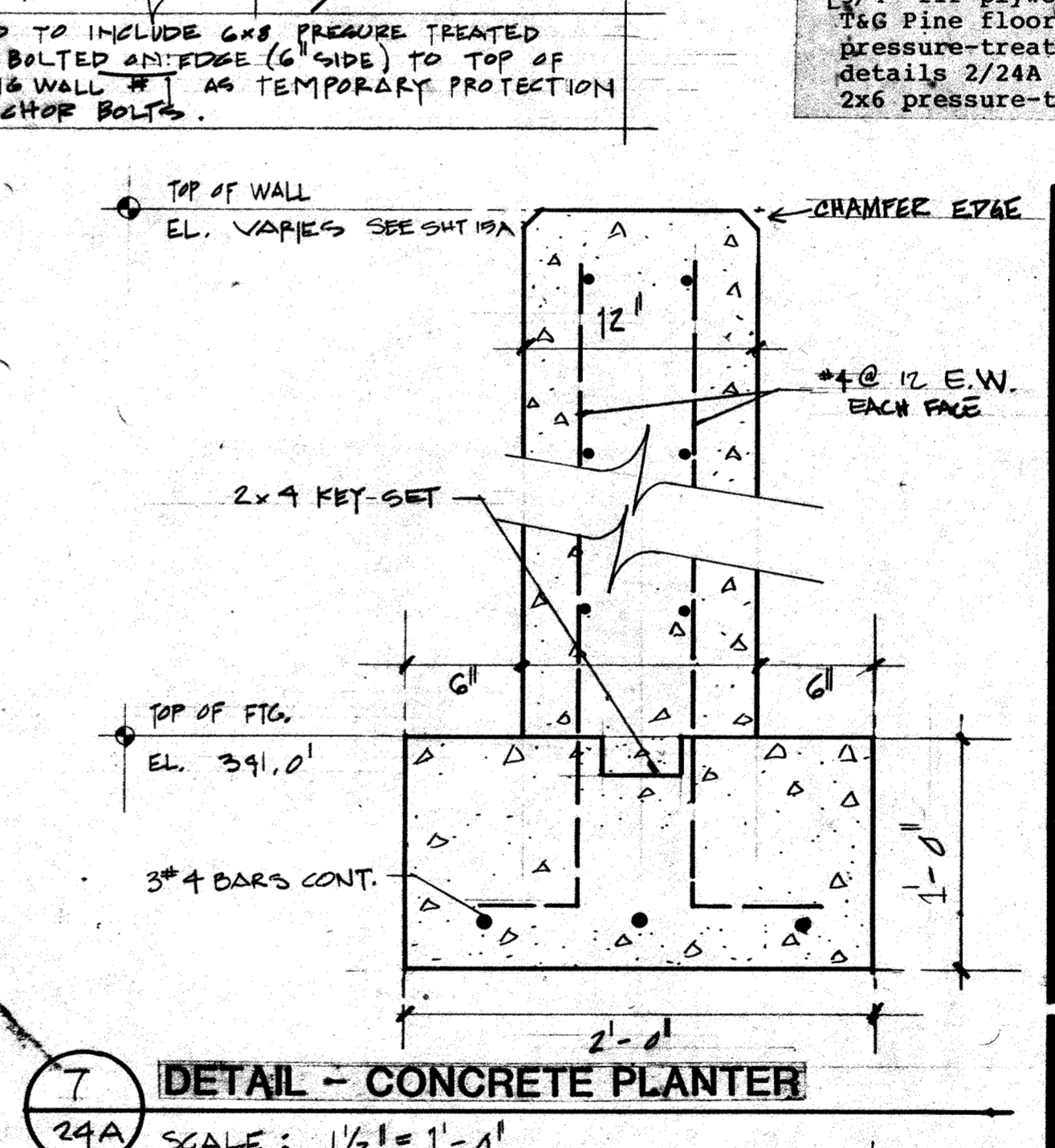
5 SLAB & WALL DETAIL
24A SCALE 1/2" = 1'-0"
Add Alternate #1



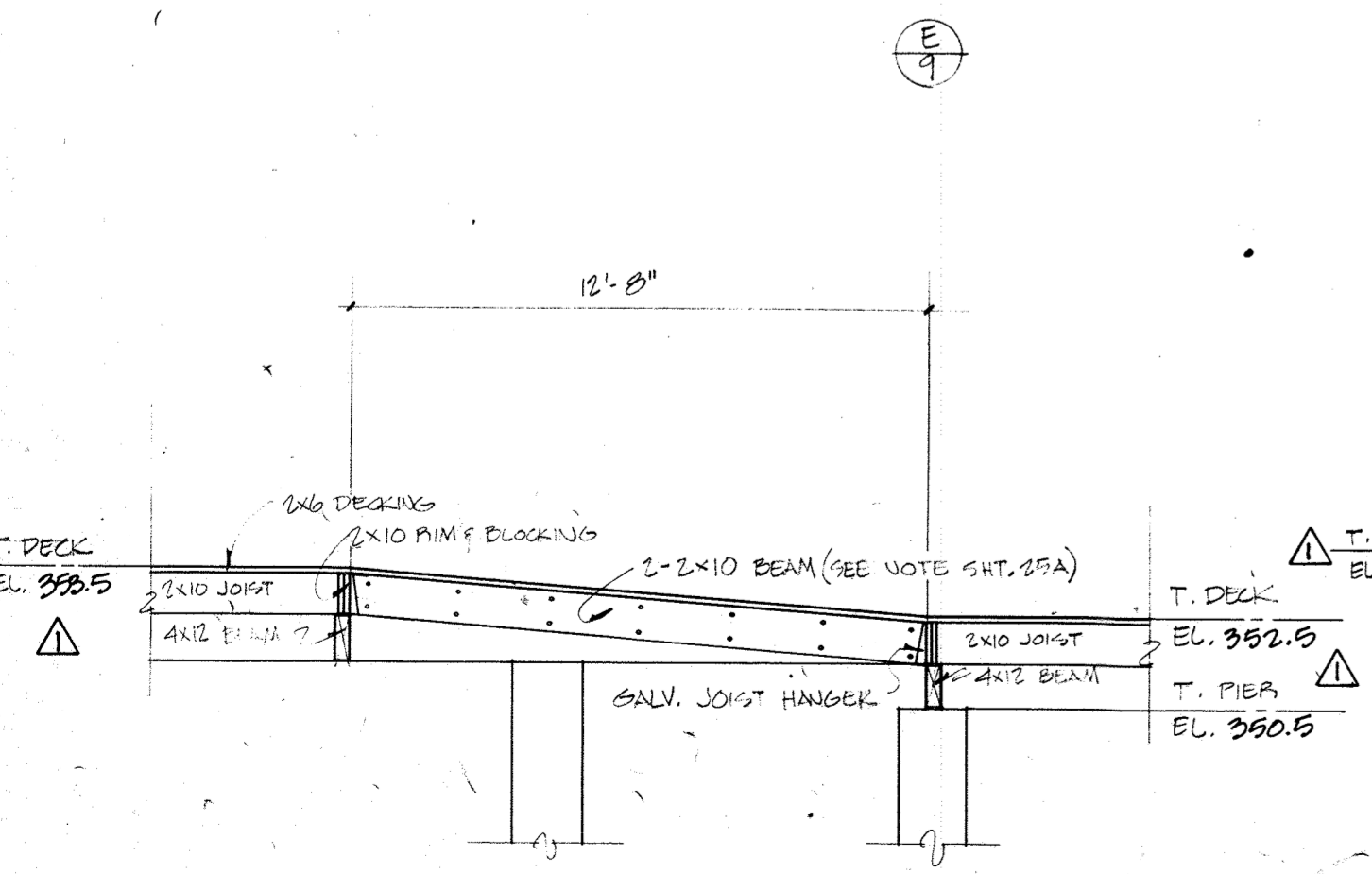
6 EXTERIOR CONC. SLAB DETAIL
24A SCALE 1/2" = 1'-0"
Add Alternate #1



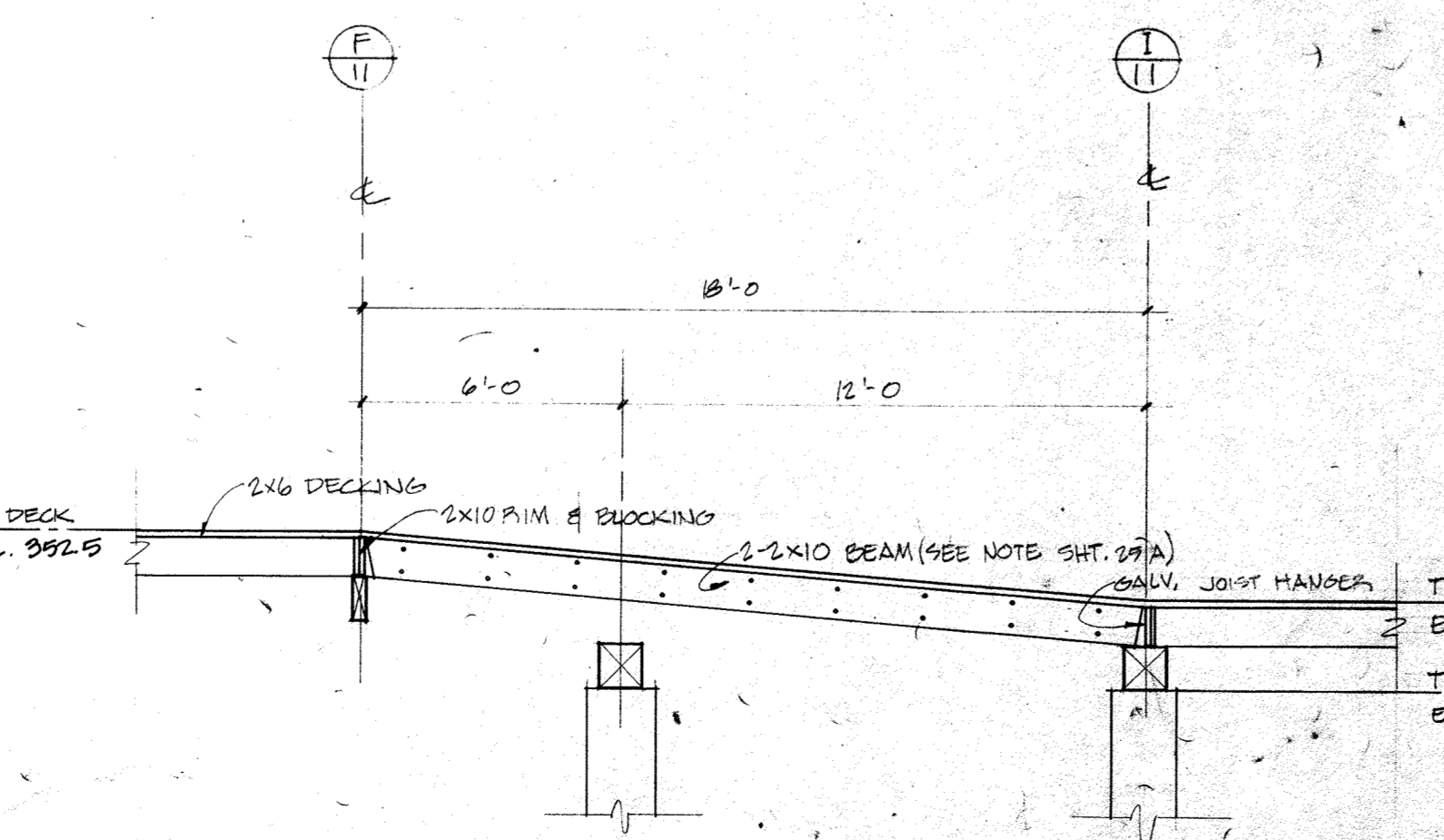
7 DETAIL (TYP.) HEAD
24A 1/2" = 1'-0"



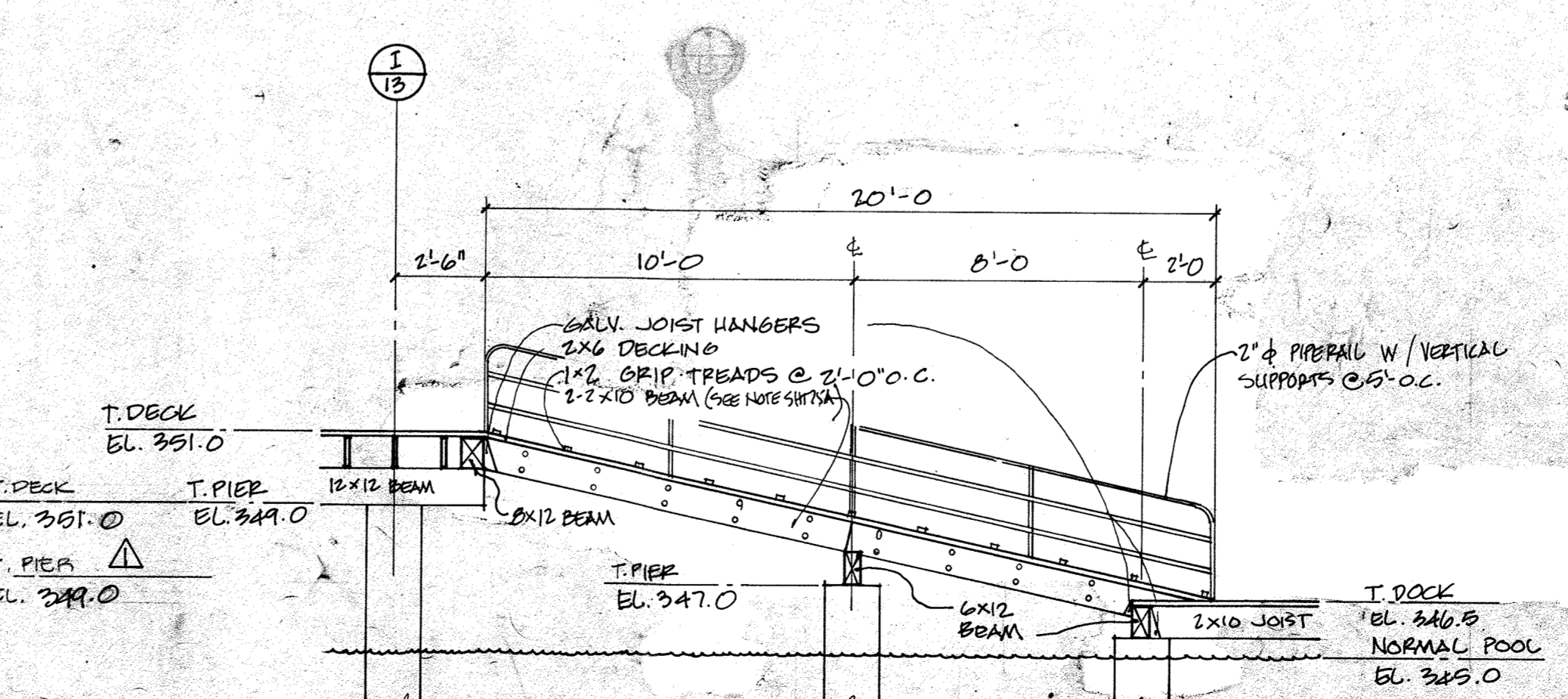
8 DETAIL - CONCRETE PLANTER
24A SCALE: 1/2" = 1'-0"



RAMP D
Base Bid



RAMP E
Base Bid



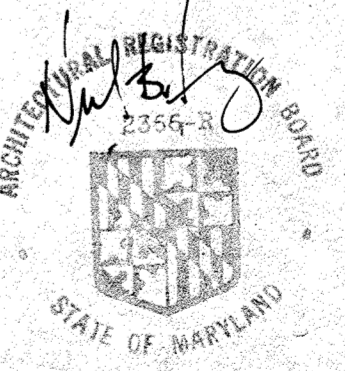
RAMP F
Base Bid

APPROVED: For Public Water, Drainage Systems and Roads	and Storm
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>Wayne F. Newmy</i>	8-28-83
DIRECTOR	DATE
<i>Richard E. Ray</i>	10-28-83
CHIEF, BUREAU OF ENGINEERING	DATE
APPROVED: For Public Water and Private Sewerage Systems	Private
HOWARD COUNTY HEALTH DEPARTMENT	
<i>John Oglesby</i>	1-25-84
COUNTY HEALTH OFFICER	DATE
APPROVED: Howard County Office of Planning and Zoning	
<i>Thomas A. Amigo</i>	8-22-84
PLANNING DIRECTOR	DATE
<i>William J. ...</i>	8-22-84
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION	DATE

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City, Md. 21034

Elect. Dist. No. 2, Ho. Co. Tax Map No. 30
Law Docket A-3652
Liber 781 Folio 592, Parcel 345, 63.6 Ac.
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	383	604	1.16	94



LD LAND DESIGN / RESEARCH, INC.
5560 STERRETT PLACE, SUITE 300
COLUMBIA, MARYLAND

BOAT DOCK / CONCESSION

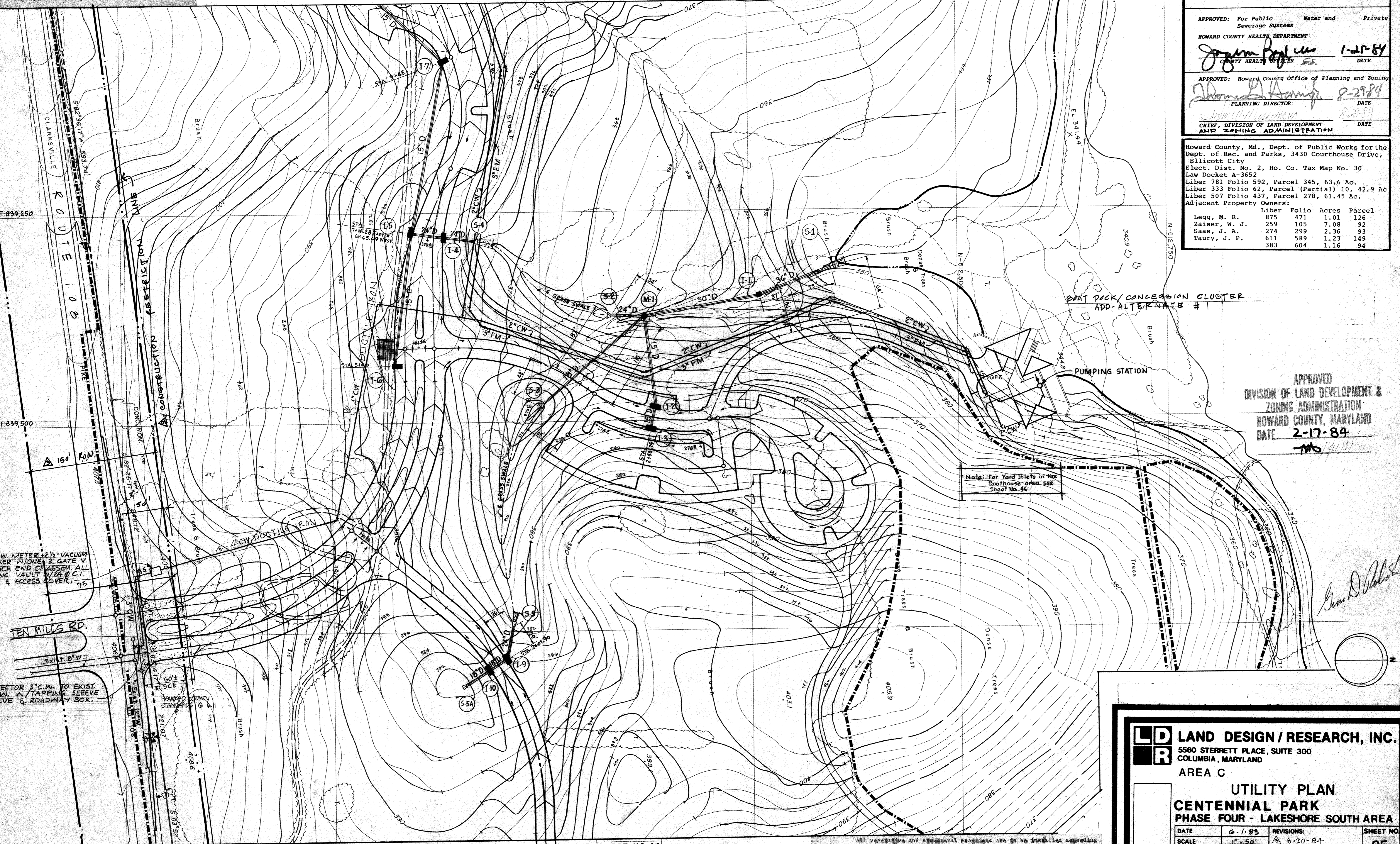
CLUSTER CONSTRUCTION DETAILS
CENTENNIAL PARK
PHASE FOUR - LAKESHORE SOUTH AREA

DATE	6-1-83	REVISIONS:		SHEET NO.
SCALE	1/2" = 1'-0"		5-11-84	24A
DRAWN	R. J. L.			OF 31
CHECKED	T. O. Z. B.			

By the Developer:
 "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 as a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project."
 Signature of Developer _____ Date _____

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 _____ Date _____

MATCH LINE SHEET NO. 24 AREA "B"



APPROVED: For Public Water, Drainage Systems and Storm and Storm
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Director: [Signature] 8-28-84
 DATE
 Chief, Bureau of Engineering: [Signature] 10-28-83
 DATE

APPROVED: For Public Water and Private Sewerage Systems
 HOWARD COUNTY HEALTH DEPARTMENT
 County Health Officer: [Signature] 1-27-84
 DATE

APPROVED: Howard County Office of Planning and Zoning
 Planning Director: [Signature] 8-28-84
 DATE
 Chief, Division of Land Development and Zoning Administration: [Signature] 8-28-84
 DATE

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City
 Elect. Dist. No. 2, Ho. Co. Tax Map No. 30
 Law Docket A-3652
 Liber 781 Folio 592, Parcel 345, 63.6 Ac.
 Liber 333 Folio 62, Parcel (Partial) 10, 42.9 Ac.
 Liber 507 Folio 437, Parcel 278, 61.45 Ac.
 Adjacent Property Owners:

Liber	Folio	Acres	Parcel
Legg, M. R.	875	471	1.01 126
Zaiser, W. J.	259	105	7.08 92
Saas, J. A.	274	299	2.36 93
Taury, J. P.	611	589	1.23 149
	383	604	1.16 94

APPROVED
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 2-17-84
 [Signature]

Note: For Yard Inlets in the Bathroom area see Sheet No. 46.

2 1/2" C.W. METER & 2 1/2" VACUUM BREAKER W/ ONE 2" GATE V. AT EACH END OF ASSEM. ALL IN CONC. VAULT W/ 24" C.I. FRAME & ACCESS COVER.

CONNECTOR 3" C.W. TO EXIST. 12" C.W. W/ TAPPING SLEEVE & VALVE & ROADWAY BOX.

MATCH LINE AREA "D" SHEET NO. 26

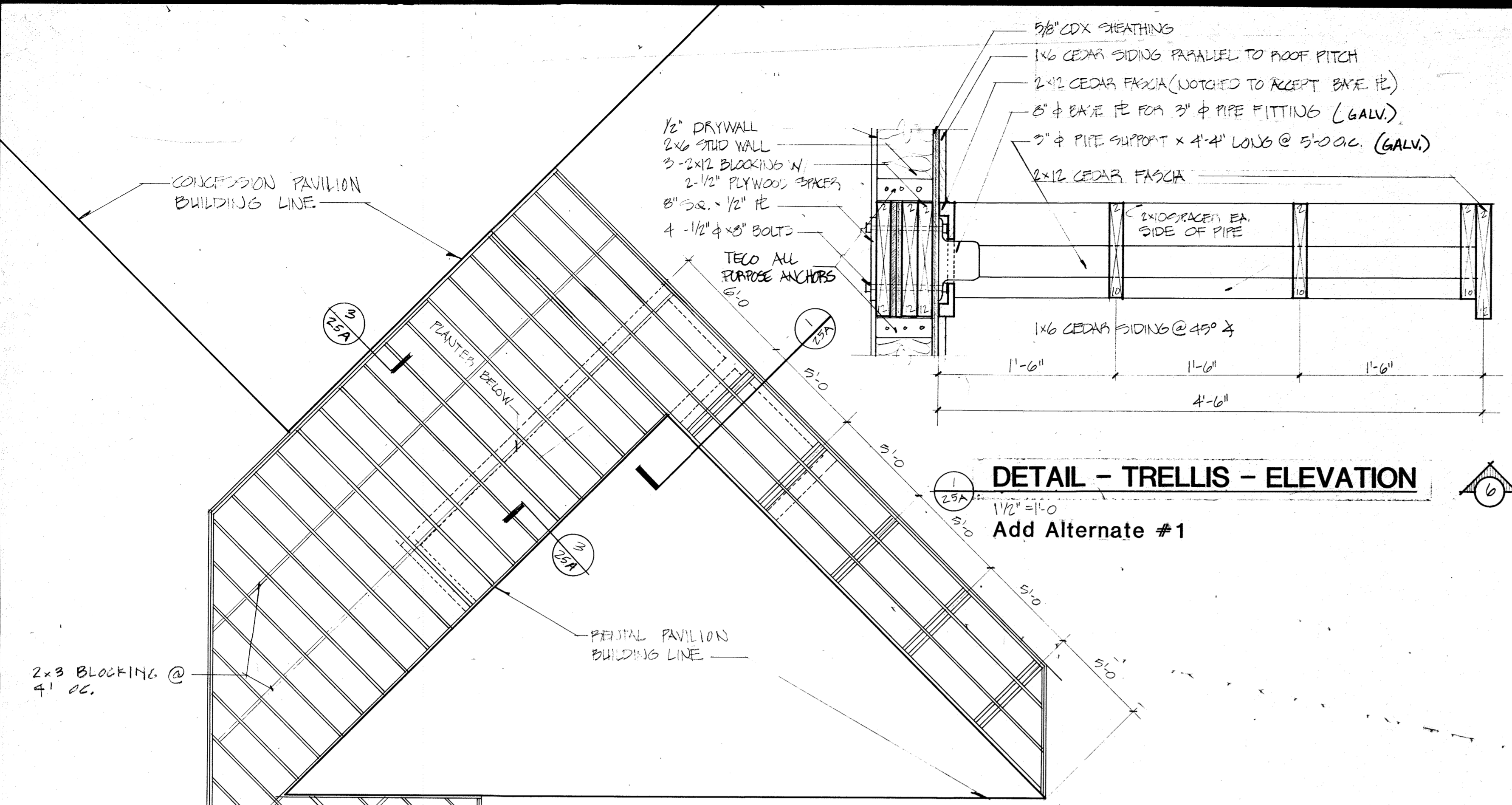
All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in accordance with the STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS, dated 1975, or later.

LD R LAND DESIGN / RESEARCH, INC.
 5560 STERRETT PLACE, SUITE 300
 COLUMBIA, MARYLAND
 AREA C

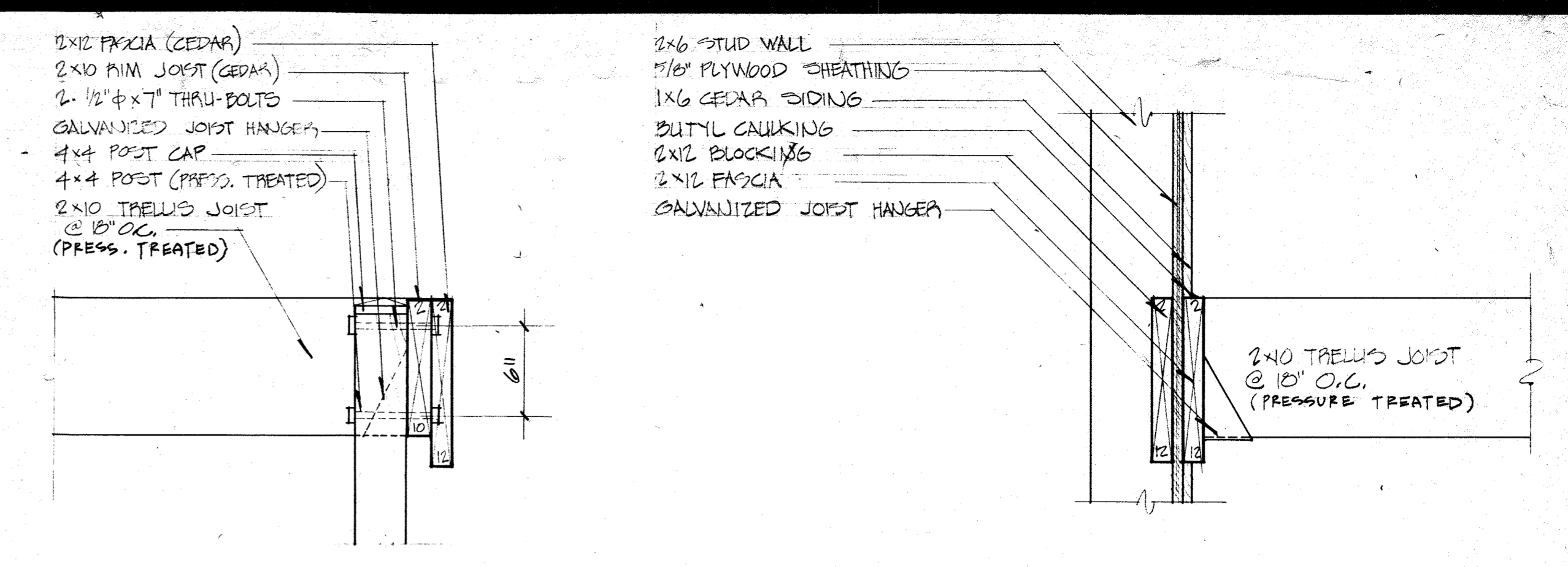
**UTILITY PLAN
 CENTENNIAL PARK
 PHASE FOUR - LAKESHORE SOUTH AREA**

DATE	6-1-83	REVISIONS:	8-20-84	SHEET NO.	25
SCALE	1" = 50'				OF 87
DRAWN					
CHECKED	10-21-83				

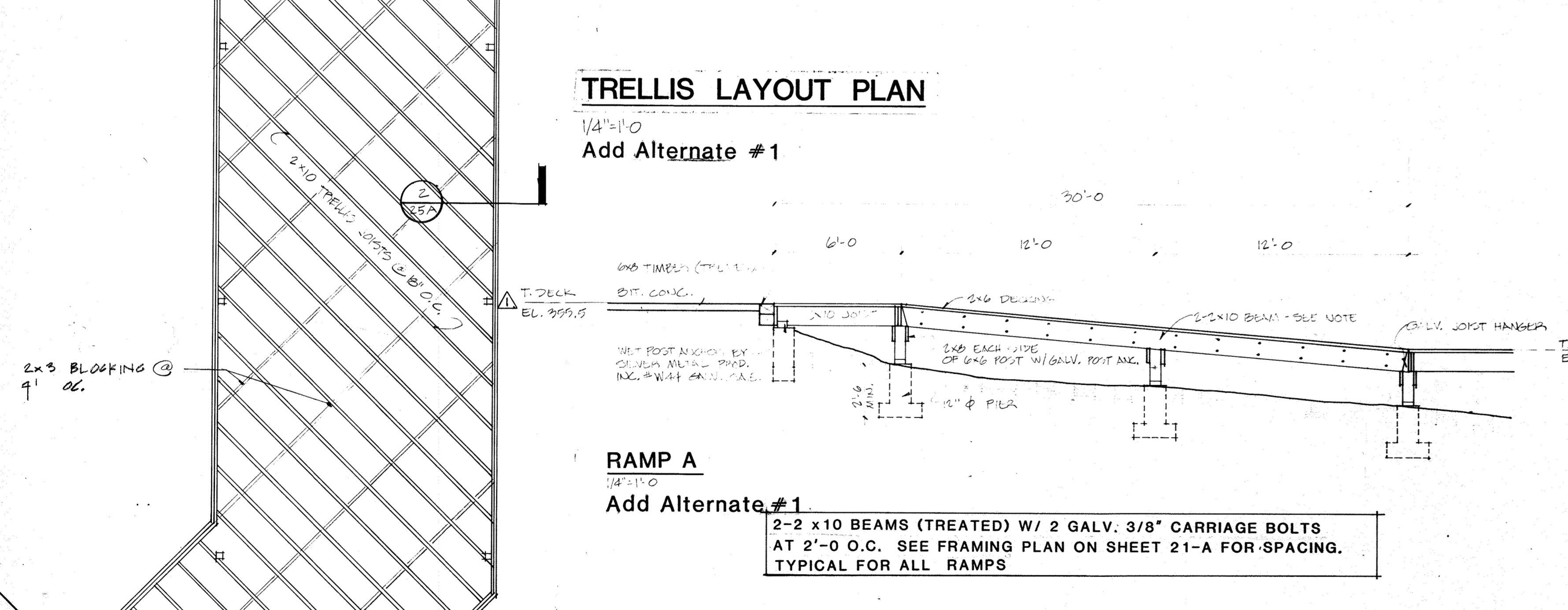
SDP-84-165



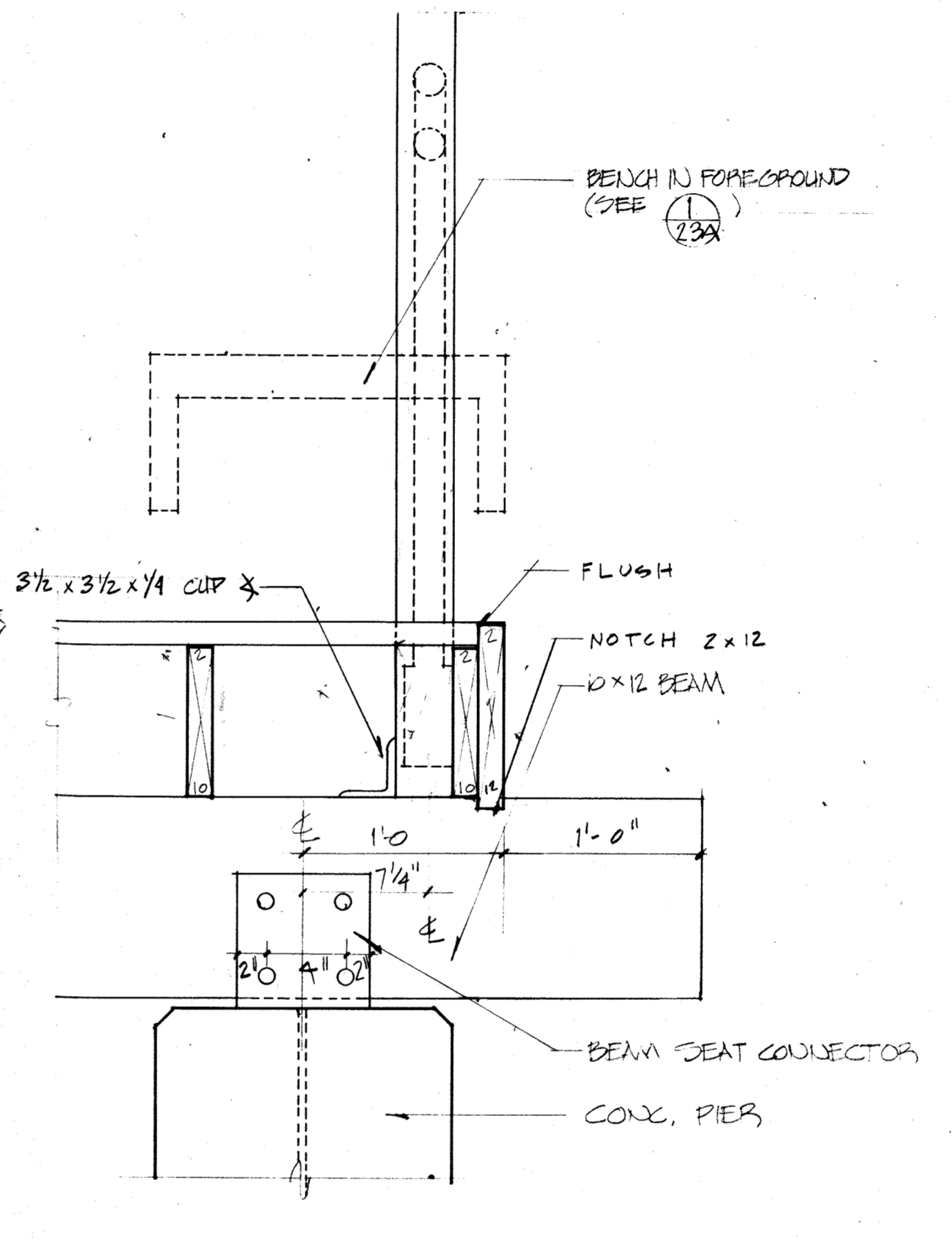
DETAIL - TRELLIS - ELEVATION
 1/2" = 1'-0"
 Add Alternate #1



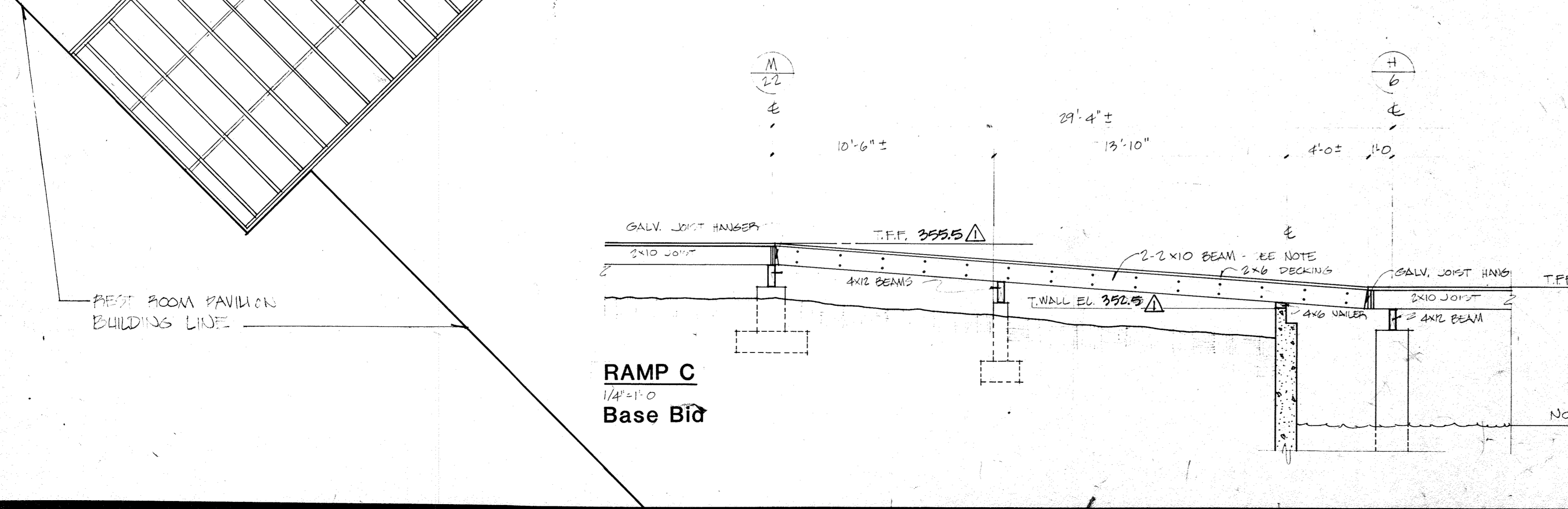
**DETAIL - TRELLIS
 ELEVATION**
 1/2" = 1'-0"
 Add Alternate #1



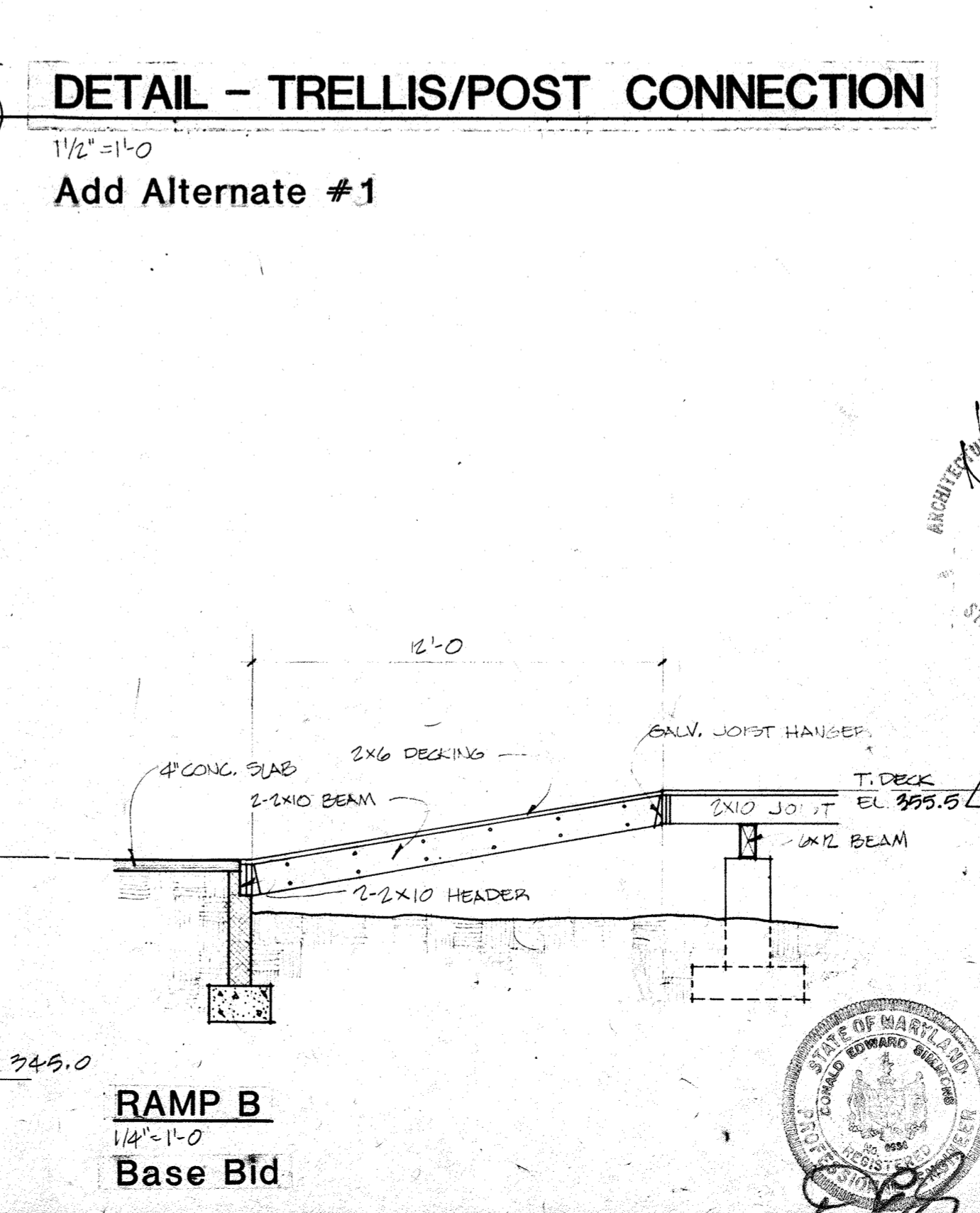
TRELLIS LAYOUT PLAN
 1/4" = 1'-0"
 Add Alternate #1



DETAIL - TRELLIS/POST CONNECTION
 1/2" = 1'-0"
 Add Alternate #1

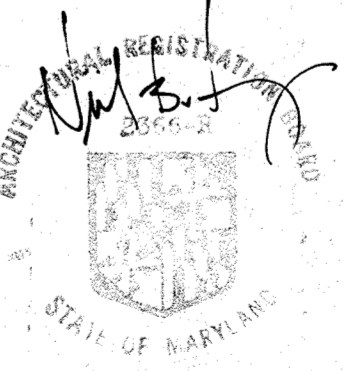


RAMP A
 1/4" = 1'-0"
 Add Alternate #1



RAMP B
 1/4" = 1'-0"
 Base Bid

APPROVED: For Public Water, Drainage Systems and Storm	and Storm
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>Gregory Nemy</i>	8-21-11
DIRECTOR	DATE
<i>Michael S. Ray</i>	10-28-83
CHIEF, BUREAU OF ENGINEERING	DATE
APPROVED: For Public Water and Private Sewerage Systems	Private
HOWARD COUNTY HEALTH DEPARTMENT	
<i>John P. ...</i>	1-25-11
COUNTY HEALTH OFFICER	DATE
APPROVED: Howard County Office of Planning and Zoning	
<i>Thomas L. ...</i>	8-29-11
PLANNING DIRECTOR	DATE
<i>...</i>	10-28-11
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION	DATE
Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City	
Elect. Dist. No. 2, Ho. Co. Tax Map No. 30	
Law Docket A-3652	
Liber 781 Folio 592, Parcel 345, 63.6 Ac.	
Liber 333 Folio 62, Parcel (Partial) 10, 42.9 Ac.	
Liber 507 Folio 437, Parcel 278, 61.45 Ac.	
Adjacent Property Owners:	
Legg, M. R.	Liber Folio Acres Parcel
Zaiser, W. J.	875 471 1.01 126
Saas, J. A.	259 105 7.08 92
Taury, J. P.	274 299 2.36 93
	611 589 1.23 149
	383 604 1.16 94



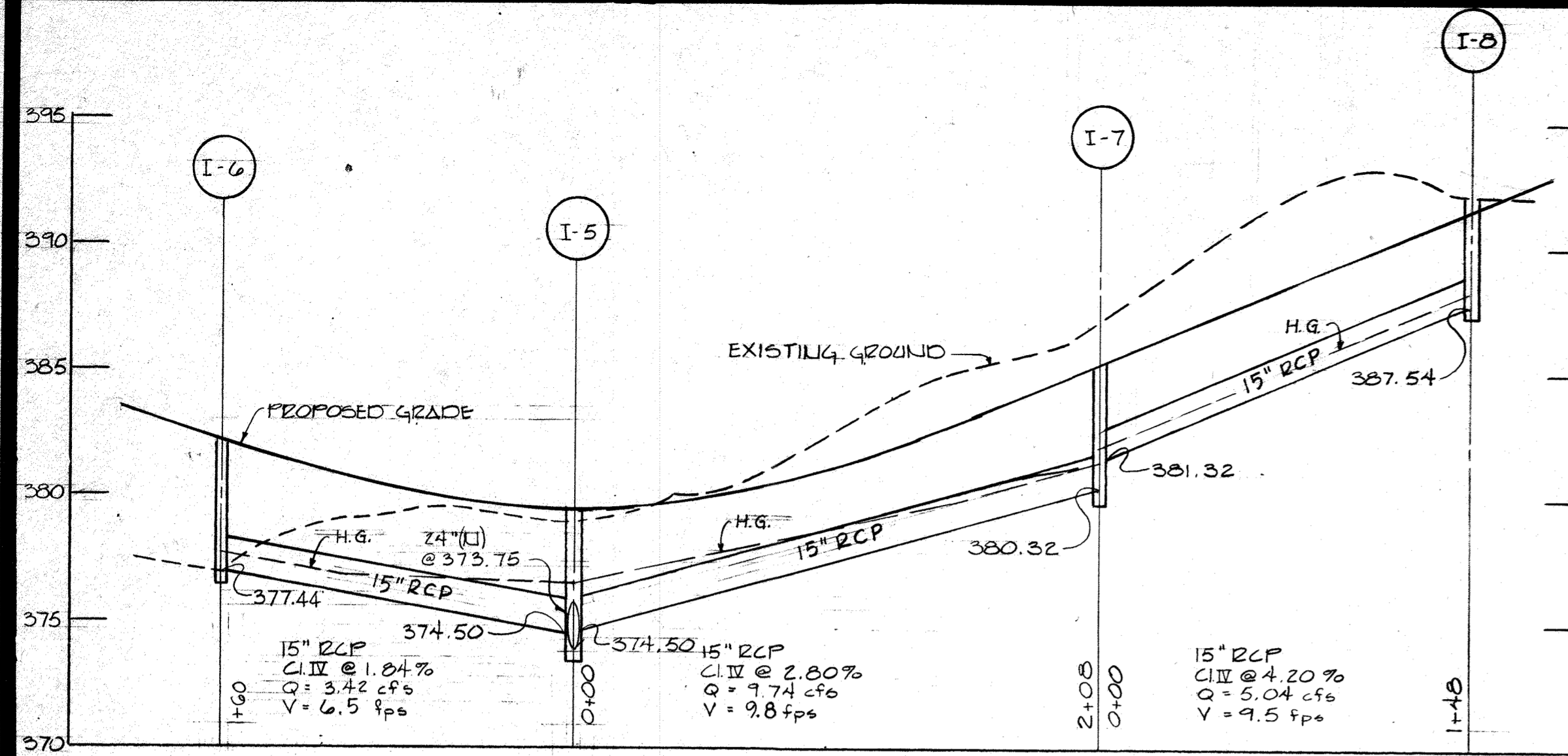
LD LAND DESIGN / RESEARCH, INC.
 5560 STERRETT PLACE, SUITE 300
 COLUMBIA, MARYLAND

BOAT DOCK / CONCESSION

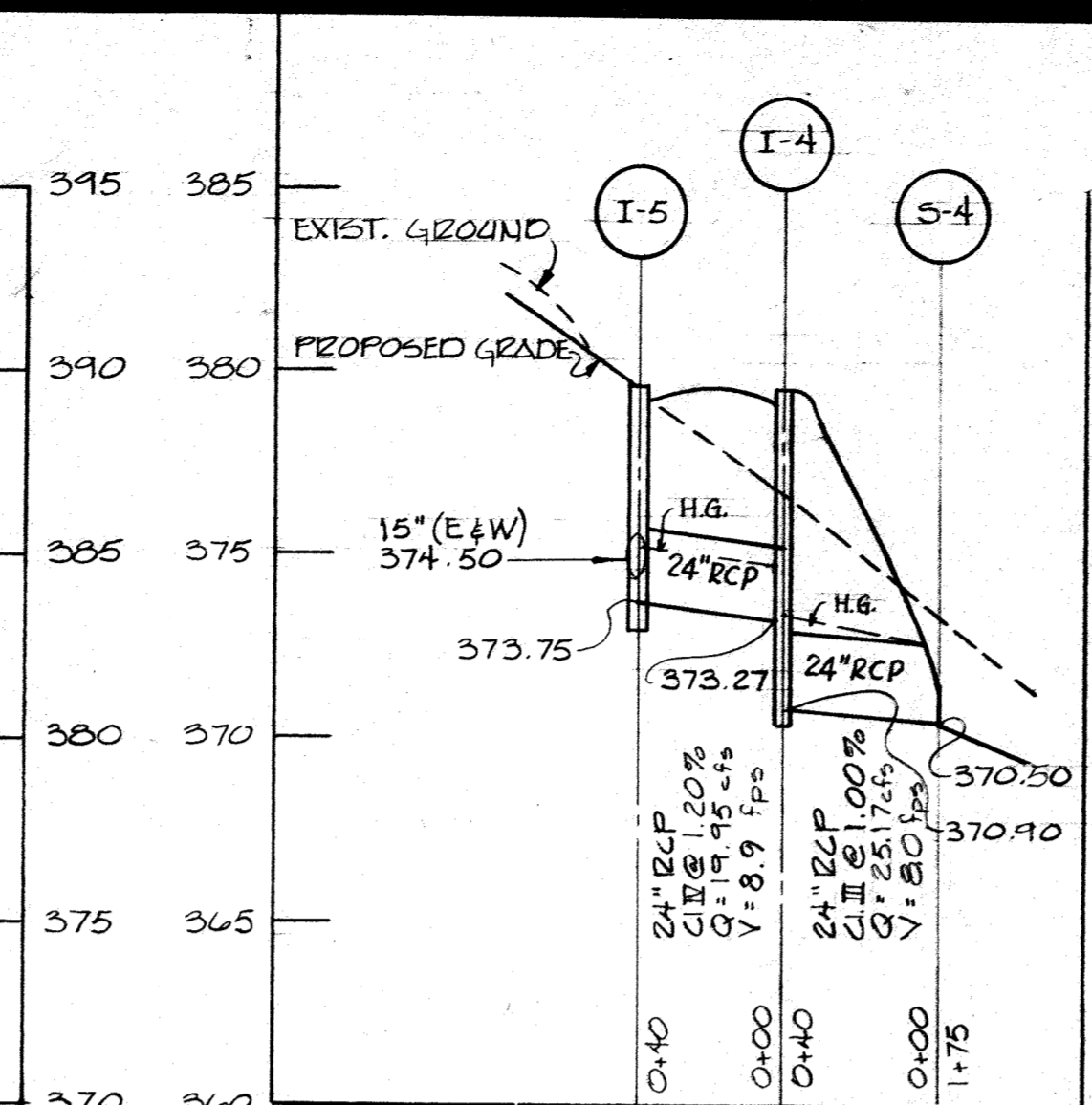
**CLUSTER Constr. Details/Trellis Plan
 CENTENNIAL PARK
 PHASE FOUR - LAKESHORE SOUTH AREA**

DATE	6-1-03	REVISIONS:		SHEET NO.
SCALE		△ 5-11-04		25A
DRAWN				OF 81
CHECKED	10-21-03			

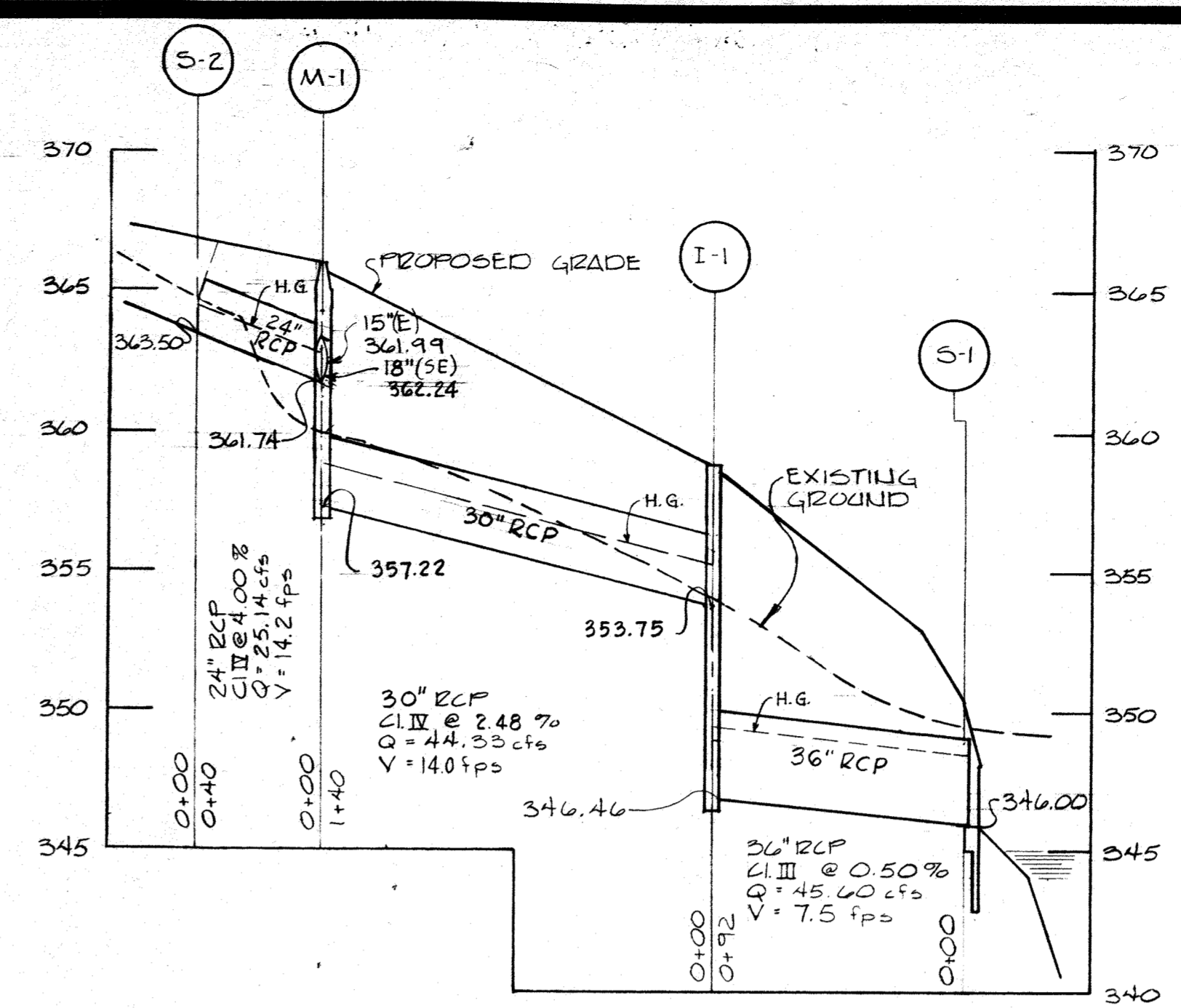
SDP-84-165



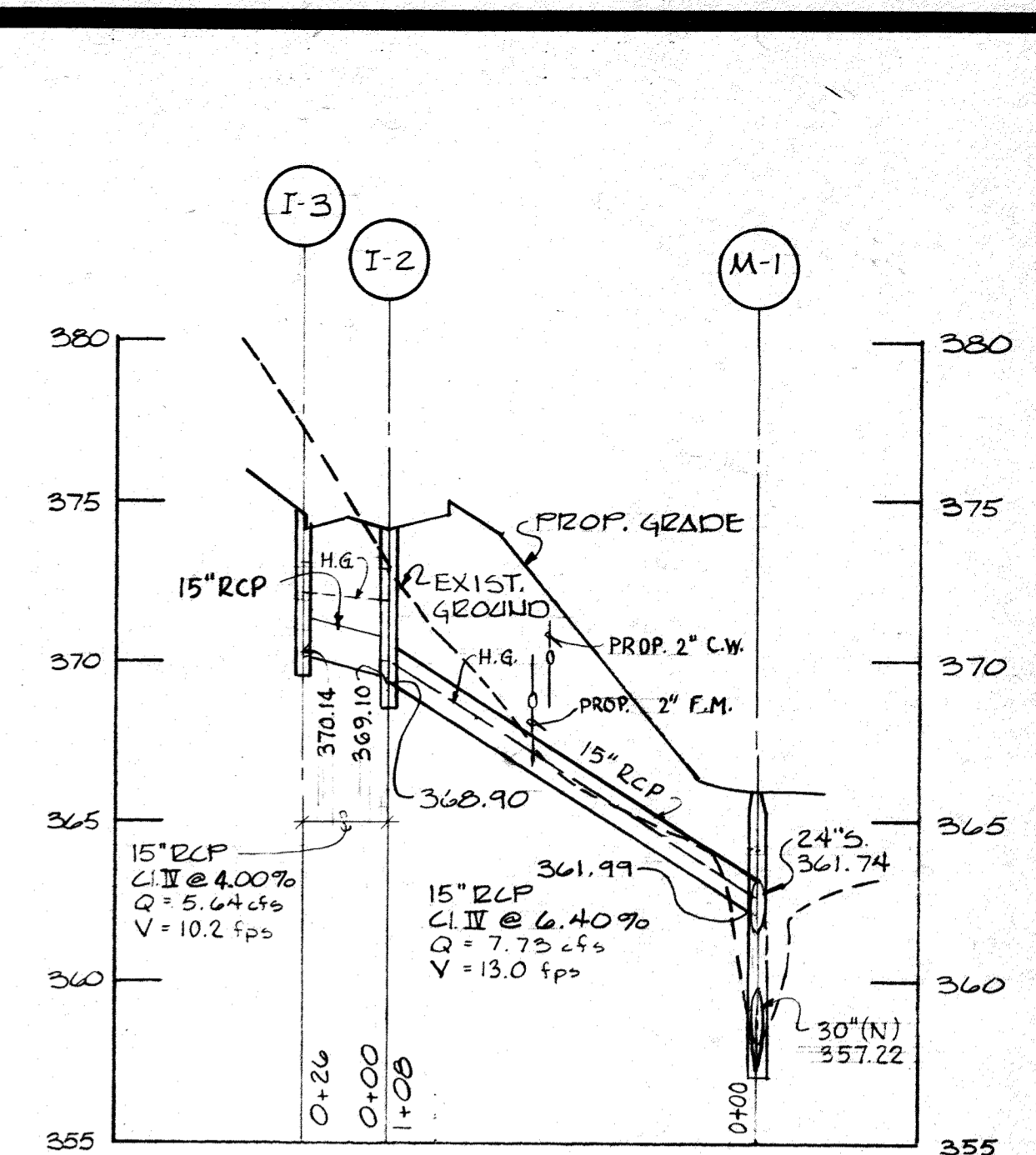
STORM DRAIN PROFILE
 Scale: Horz. 1" = 50'
 Vert. 1" = 5'



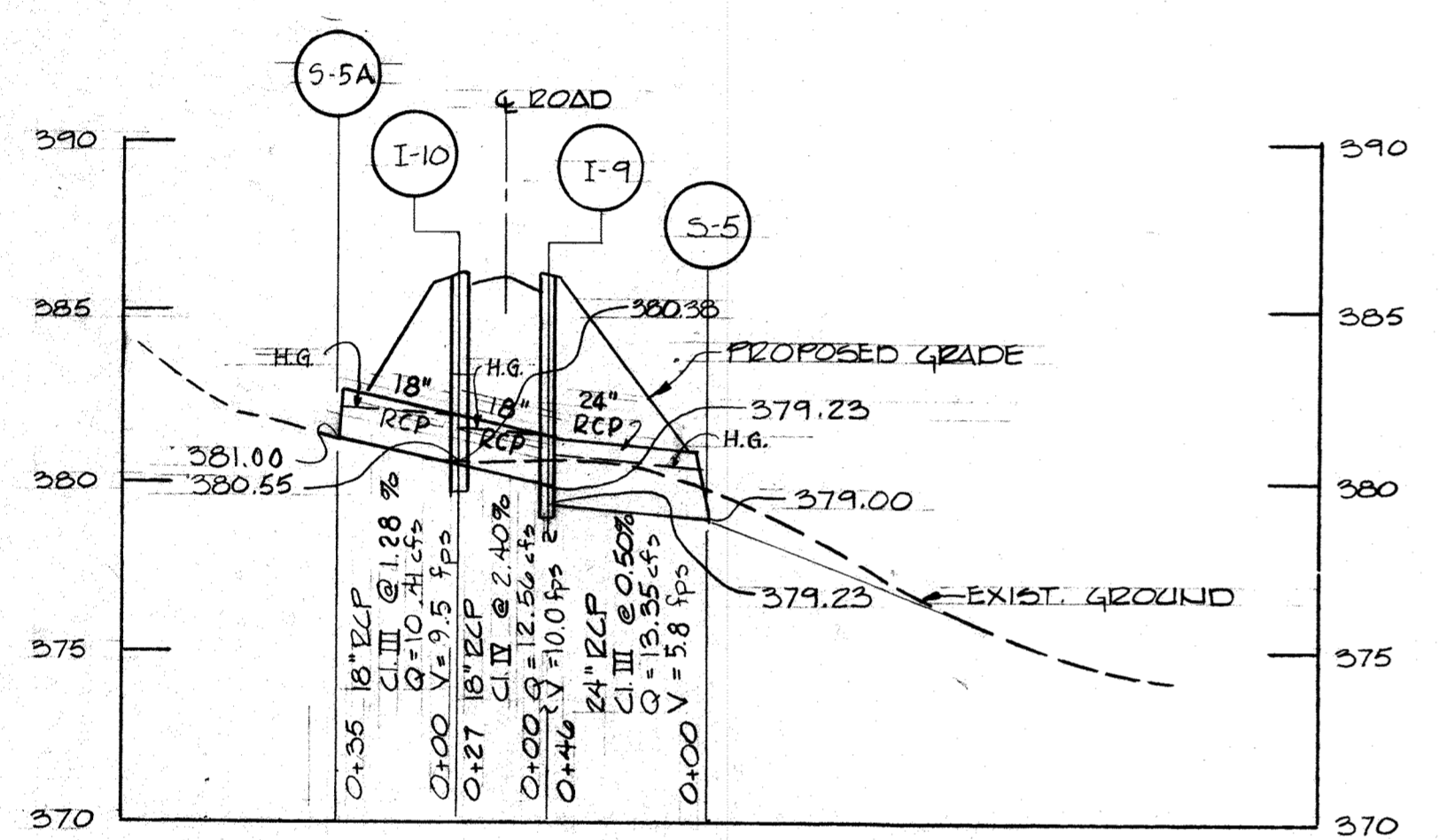
STORM DRAIN PROFILE
 Scale: Horz. 1" = 50'
 Vert. 1" = 5'



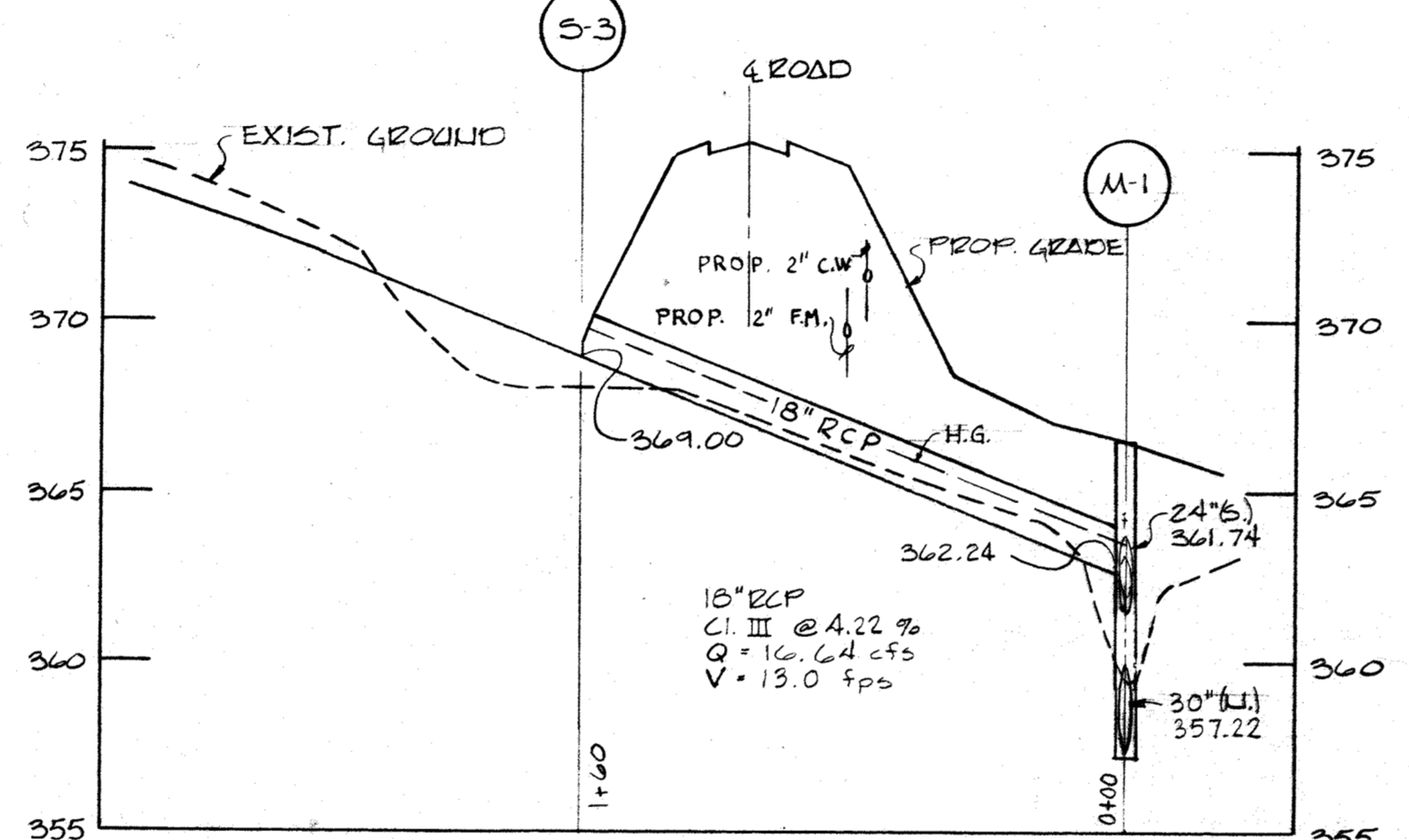
STORM DRAIN PROFILE
 Scale: Horz. 1" = 50'
 Vert. 1" = 5'



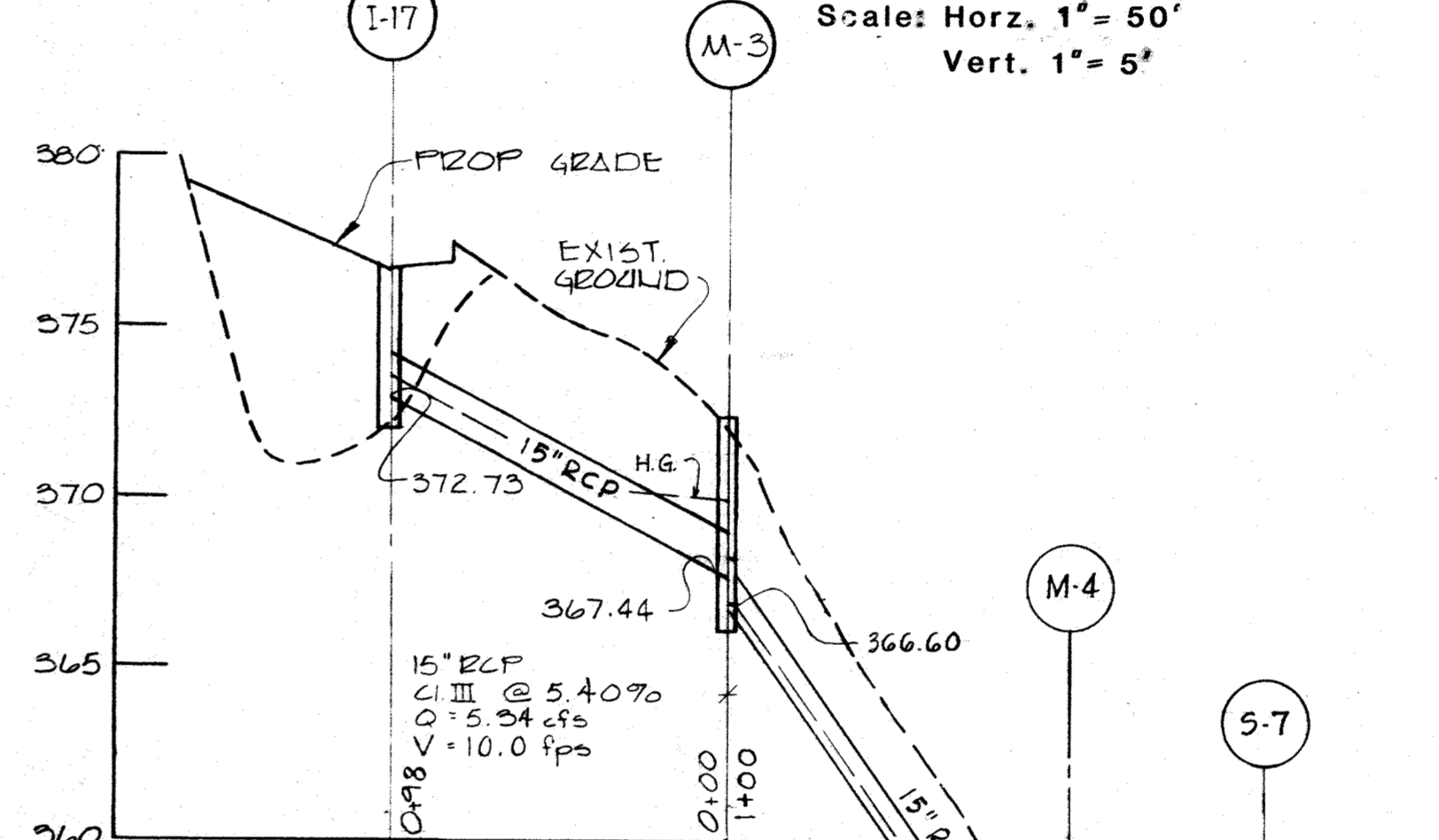
STORM DRAIN PROFILE
 Scale: Horz. 1" = 50'
 Vert. 1" = 5'



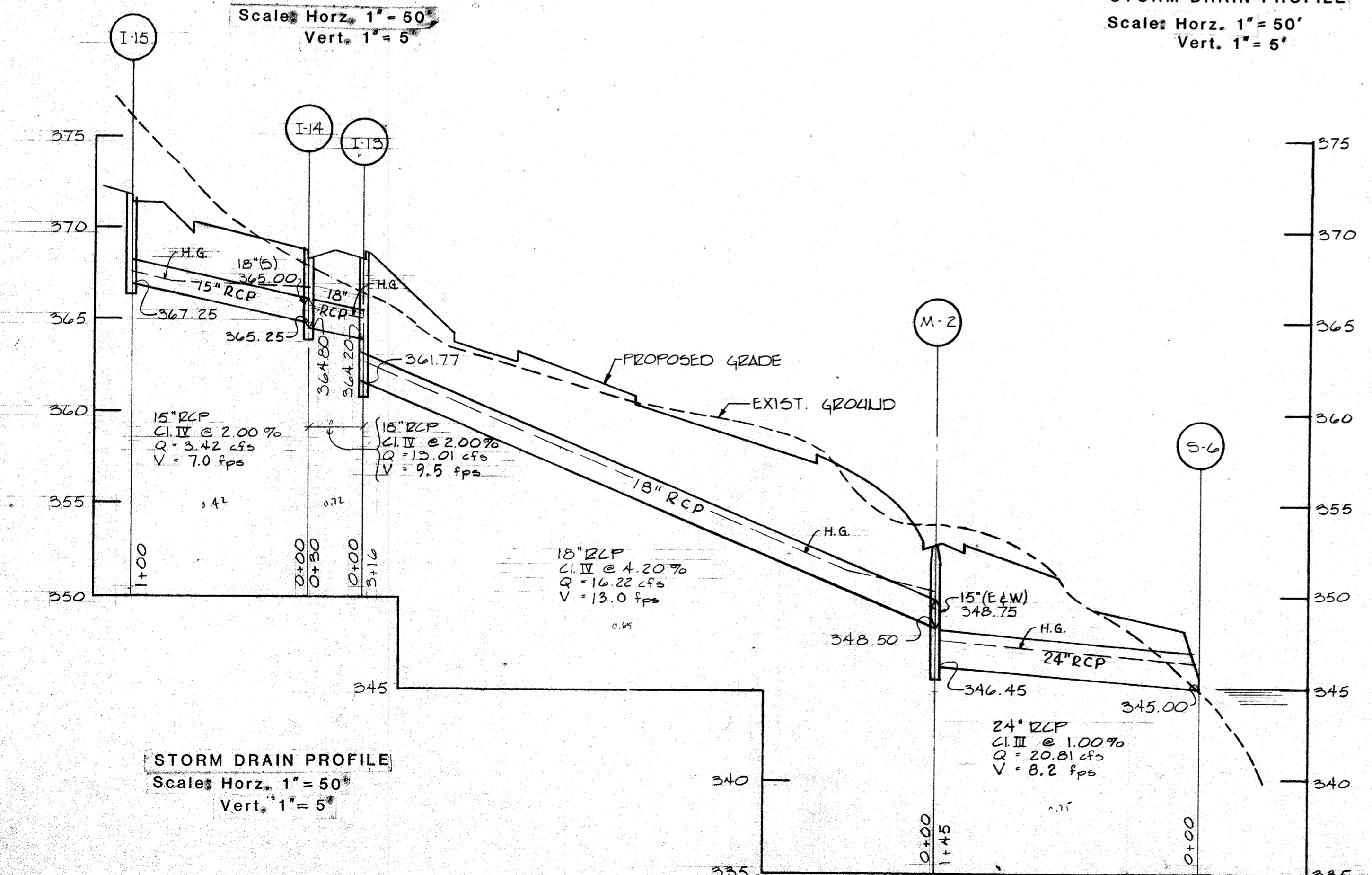
STORM DRAIN PROFILE
 Scale: Horz. 1" = 50'
 Vert. 1" = 5'



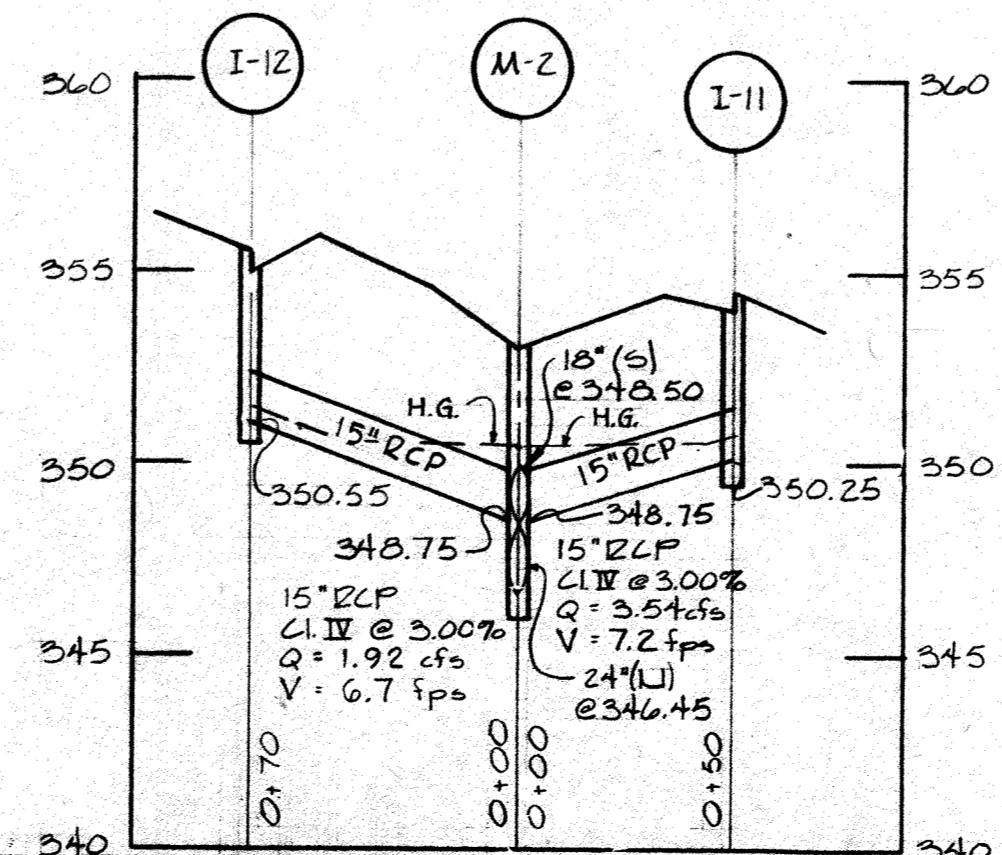
STORM DRAIN PROFILE
 Scale: Horz. 1" = 50'
 Vert. 1" = 5'



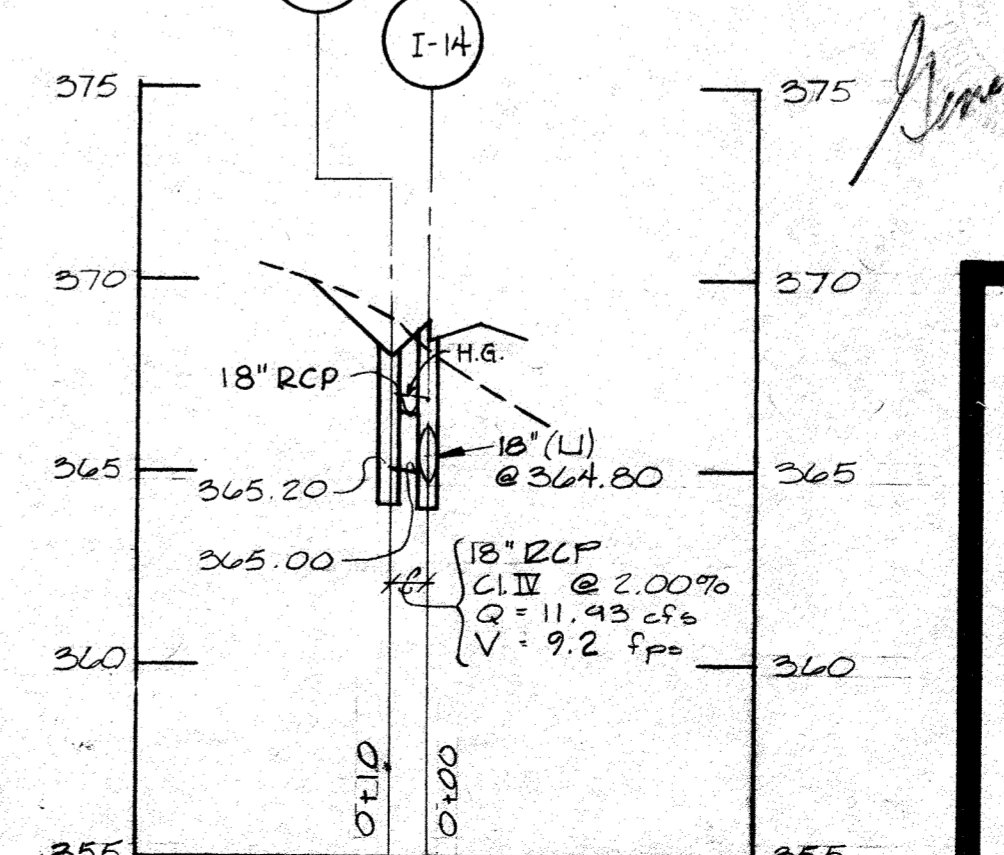
STORM DRAIN PROFILE
 Scale: Horz. 1" = 50'
 Vert. 1" = 5'



STORM DRAIN PROFILE
 Scale: Horz. 1" = 50'
 Vert. 1" = 5'



STORM DRAIN PROFILE
 Scale: Horz. 1" = 50'
 Vert. 1" = 5'



STORM DRAIN PROFILE
 Scale: Horz. 1" = 50'
 Vert. 1" = 5'

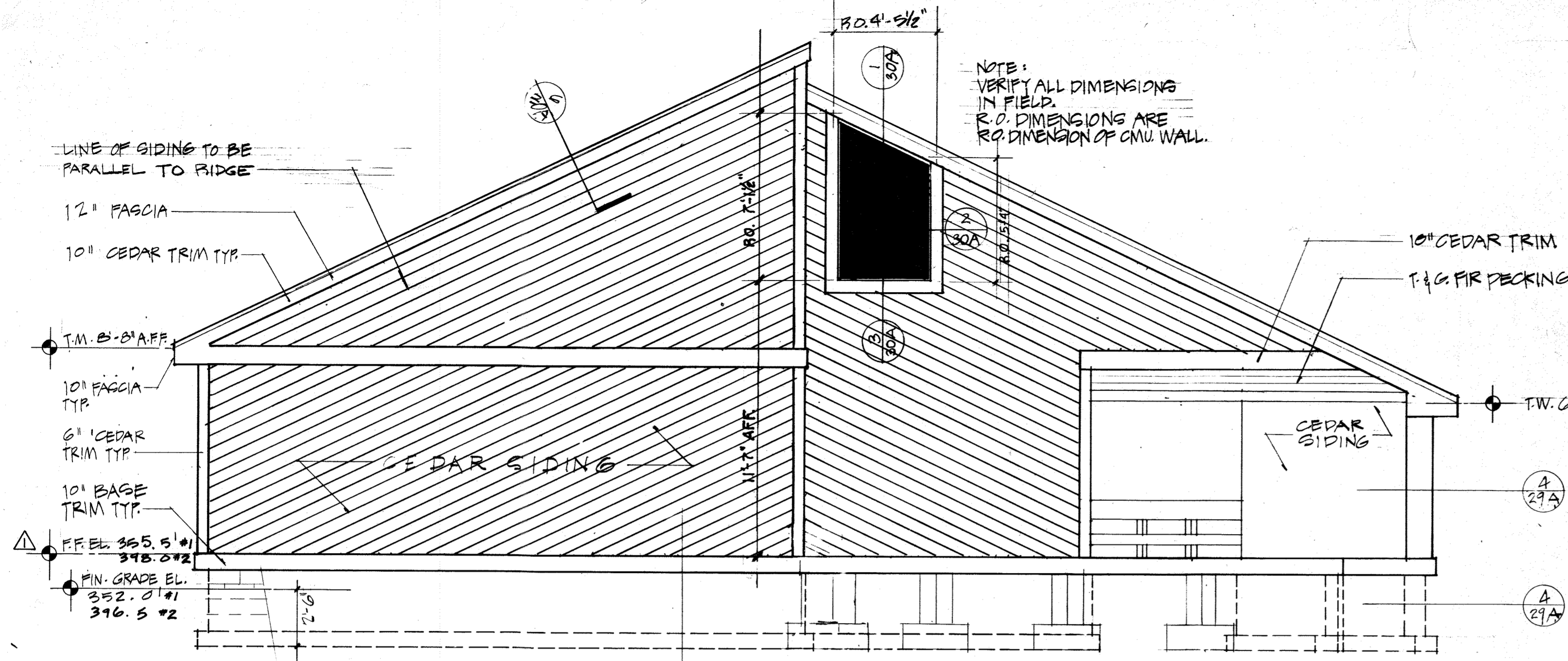
APPROVED: For Public Water, Drainage Systems and Roads and Storm
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Director: *Wayne F. Nemy* DATE: 8-28-87
 Chief, Bureau of Engineering: *W. J. Zaiser* DATE: 10-28-83
 APPROVED: For Public Water and Private Sewerage Systems
 HOWARD COUNTY HEALTH DEPARTMENT
 County Health Officer: *James P. ...* DATE: 1-25-84
 APPROVED: Howard County Office of Planning and Zoning
 Planning Director: *Thomas ...* DATE: 8-29-84
 Chief, Division of Land Development and Zoning Administration: *...* DATE: 8-29-84

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City
 Elect. Dist. No. 2, Ho. Co. Tax Map No. 30 Law Docket A-3652
 Liber 781 Folio 592, Parcel 345, 63.6 Ac.
 Liber 333 Folio 62, Parcel (Partial) 10, 42.9 Ac.
 Liber 507 Folio 437, Parcel 278, 61.45 Ac.
 Adjacent Property Owners:
 Legg, M. R. 875 471 1.01 126
 Zaiser, W. J. 259 105 7.08 92
 Saas, J. A. 274 299 2.36 93
 Taury, J. P. 611 589 1.23 149
 383 604 1.16 94

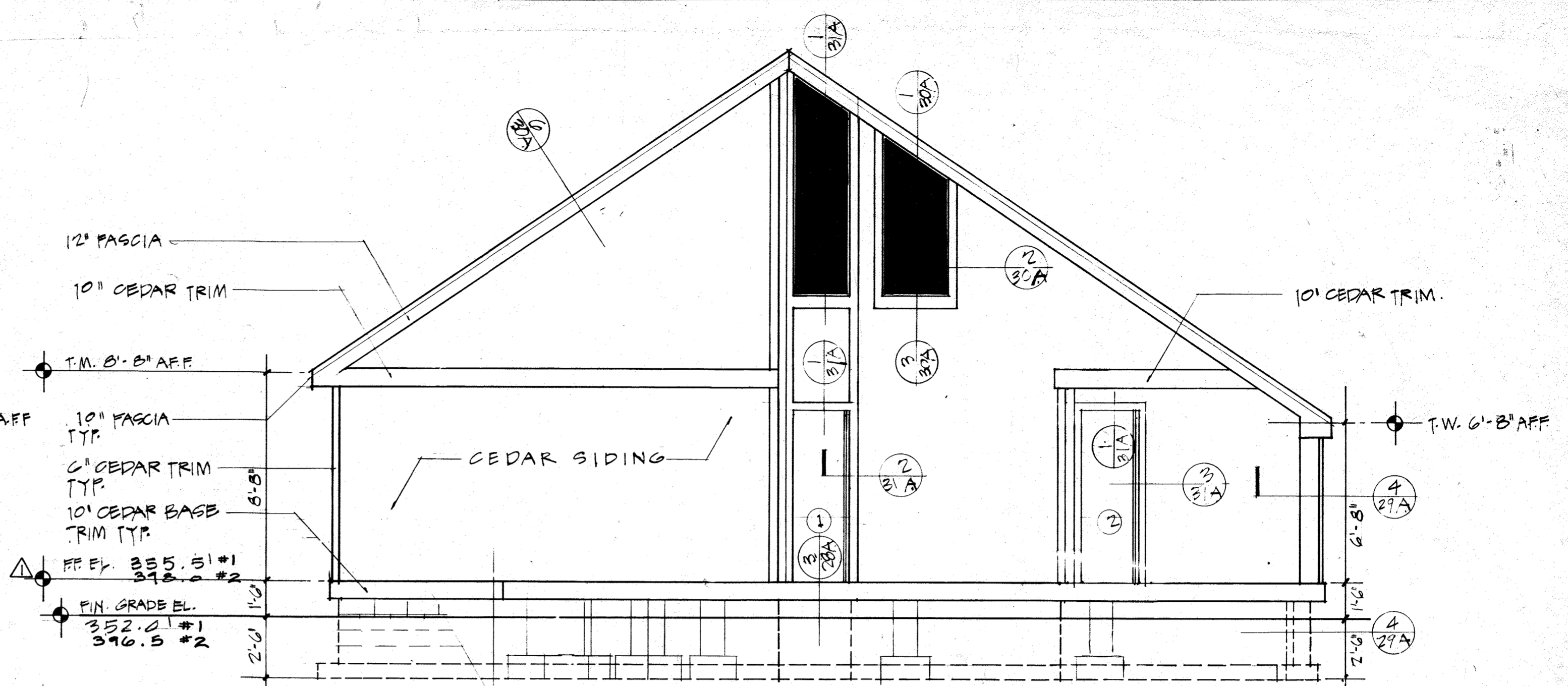
LD LAND DESIGN / RESEARCH, INC.
 5560 STERRETT PLACE, SUITE 300
 COLUMBIA, MARYLAND

STORM DRAIN PROFILES
CENTENNIAL PARK
PHASE FOUR - LAKESHORE SOUTH AREA

DATE	6-1-83	REVISIONS:	SHEET NO.
SCALE	HORIZ. 1" = 50'	VERT. 1" = 5'	27
DRAWN			OF 81
CHECKED	10-21-83		



A ELEVATION
1/4" = 1'-0"



B ELEVATION
1/4" = 1'-0"

NOTE: 1
CONTRACTOR SHALL INSURE ALL FOOTINGS ARE A MIN. 2'-6" BELOW FINISH GRADE AND A MIN. 1'-0" BELOW EXISTING GRADE, WHICH EVER IS LOWEST.

NOTE: 2
CONCRETE BLOCK CARRIED TO 10 COURSES ABOVE FINISH FLOOR, AS DIMENSIONED. ALL OTHER BLOCK WORK CARRIED TO UNDER-SIDE OF ROOF.

NOTE: 3
DIMENSIONS REFER TO CMU WALL WHERE APPLICABLE.

Add Alternate #1 entire sheet

FIXTURE SCHEDULE

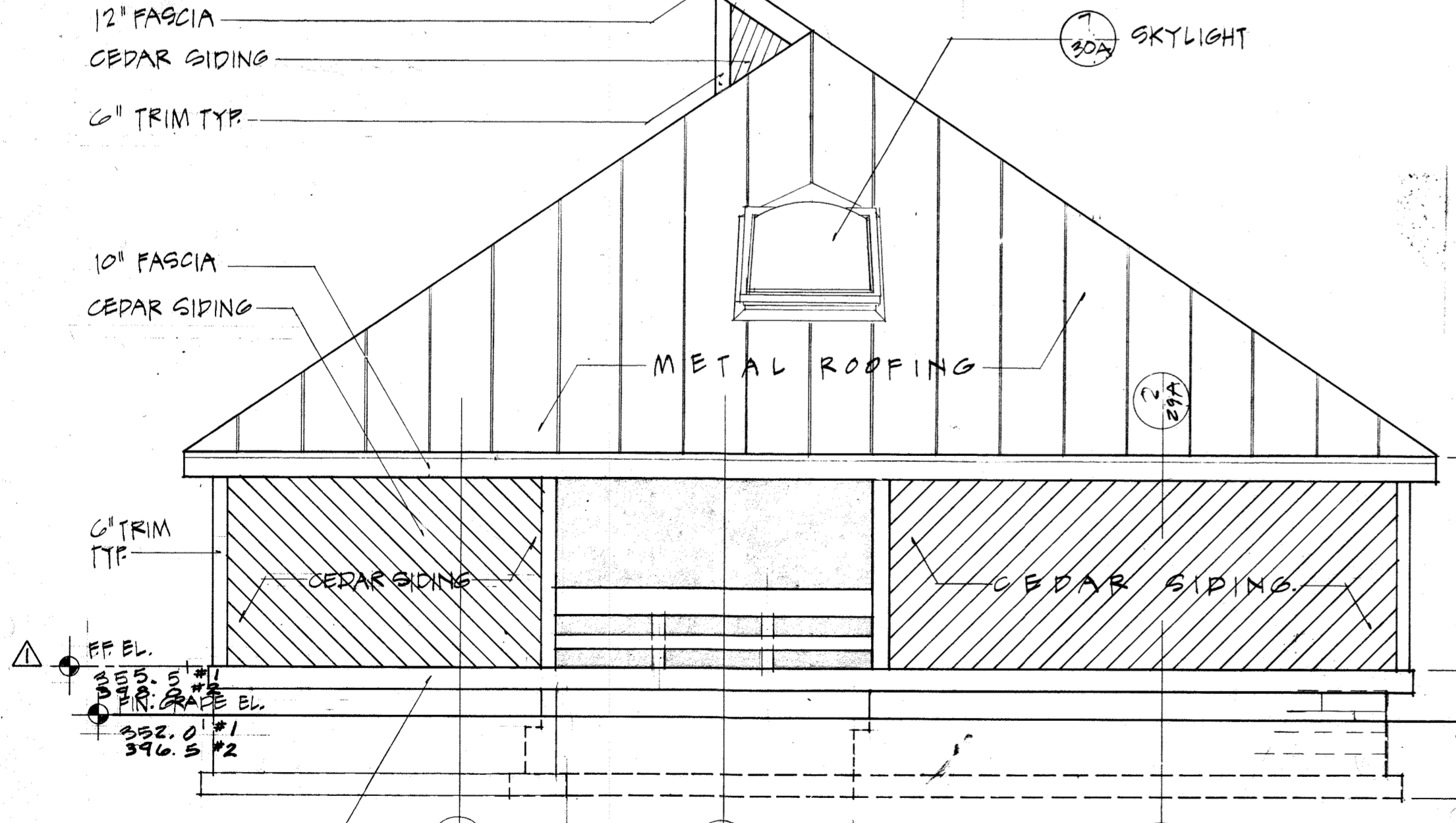
MARK	QTY	FIXTURE	MAKE	MODEL	ROUGH OPENING	REMARKS
1	2	COMBINATION PAPER TOWEL DISP AND WASTE RECEPTACLE	BOBRICK	B-3947	16" X 14 3/4" X 4"	
2	5	RECESSED SOAP DISPENSER	SUPPLIED BY OWNER			ONE OVER SERVICE SINK
3	5	TOILET PAPER DISPENSER	BOBRICK	B-274		
4	2	STAINLESS STEEL GRAB BAR	BOBRICK	B-6206		B-6206 X 48" HORIZONTAL B-6206 X 24" HORIZONTAL
5	5	SURFACE MOUNTED FEMININE TOILET PAPER DISPENSER	BOBRICK	B-270		
6	1	TOILET PAPER DISPENSER	BOBRICK	B-262		OVER SERVICE SINK
7	2	TOILET PAPER DISPENSER FRAME MIRROR	BOBRICK	B-2906 2448		BOTTOM OF MIRROR 2'-4" A.F.F.

DOOR SCHEDULE

MARK	SIZE	TYPE	HARDWARE	THRESH.	DETAILS			REMARKS
					HEAD	JAMB	SILL	
1	3'-0" X 7'-2" X 1 3/4"	* H.M.	LOCKSET**	ALUMINUM	⊕	⊕	⊕	W/WEATHERSTRIPPING.
2	3'-0" X 7'-2" X 1 3/4"	* H.M.	LOCKSET**	ALUMINUM	⊕	⊕	⊕	W/WEATHERSTRIPPING.
3	3'-0" X 7'-2" X 1 3/4"	* H.M.	LOCKSET**	ALUMINUM	⊕	⊕	⊕	W/WEATHERSTRIPPING.
4	3'-0" X 7'-2" X 1 3/4"	* H.M.	LOCKSET**	ALUMINUM	⊕	⊕	⊕	W/WEATHERSTRIPPING.

* H.M. = HOLLOW METAL
** SEE SPEC'S. FOR HARDWARE SCHEDULE

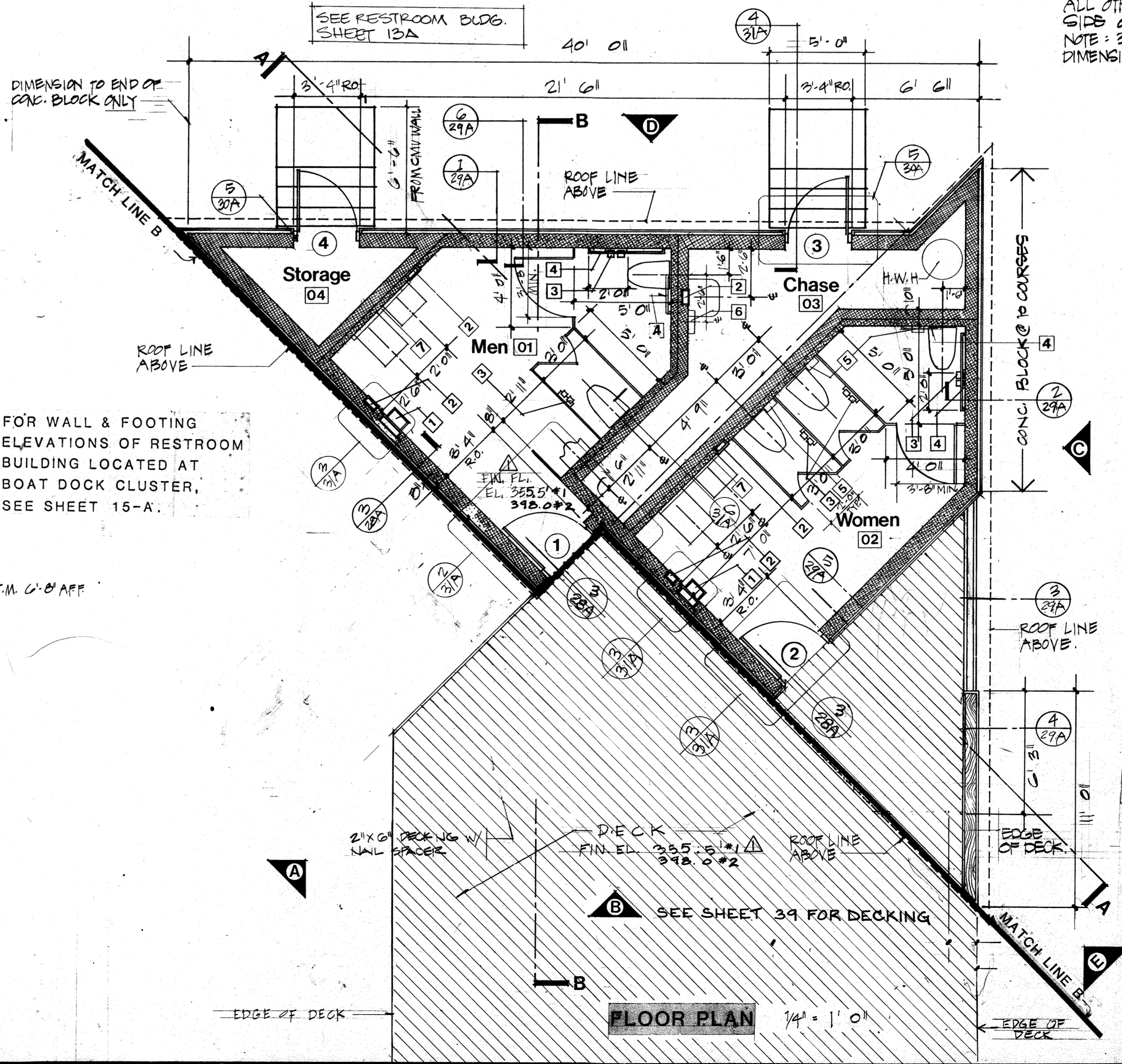
ALL EXT. DOORS TO HAVE FIXED GLASS LAUNDRY (40" X 48") 16" X 12"



C ELEVATION
1/4" = 1'-0"

NOTE: CEDAR SIDING @ 45" J.L. FASCIA.

NOTE: FOR WALL HEIGHTS SEE MASONRY LAYOUT DIAGRAM ON SHEET 31A



FLOOR PLAN
1/4" = 1'-0"

APPROVED: For public Water, Drainage Systems and Roads and Storm

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Michael F. Nemy
DIRECTOR
8-28-86
DATE

William E. Reilly
CHIEF, BUREAU OF ENGINEERING
10-28-85
DATE

APPROVED: For public Sewerage Systems Water and Private

HOWARD COUNTY HEALTH DEPARTMENT

Joseph Beckler
COUNTY HEALTH OFFICER
1-25-84
DATE

APPROVED: Howard County Office of Planning and Zoning

Donald L. Harris
PLANNING DIRECTOR
8-29-84
DATE

CHIEF, DIVISION OF LAND DEVELOPMENT & ZONING ADMIN. DATE

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Court House Drive, Ellicott City, Maryland

Election District No. 2 Howard Co., Md. Tax Map No. 30

Liber 885 Folio 76, Parcel 10, 43.18 ac.
Liber 507 Folio 437, Parcel 278, 6145 ac.

Adjacent Property Owners

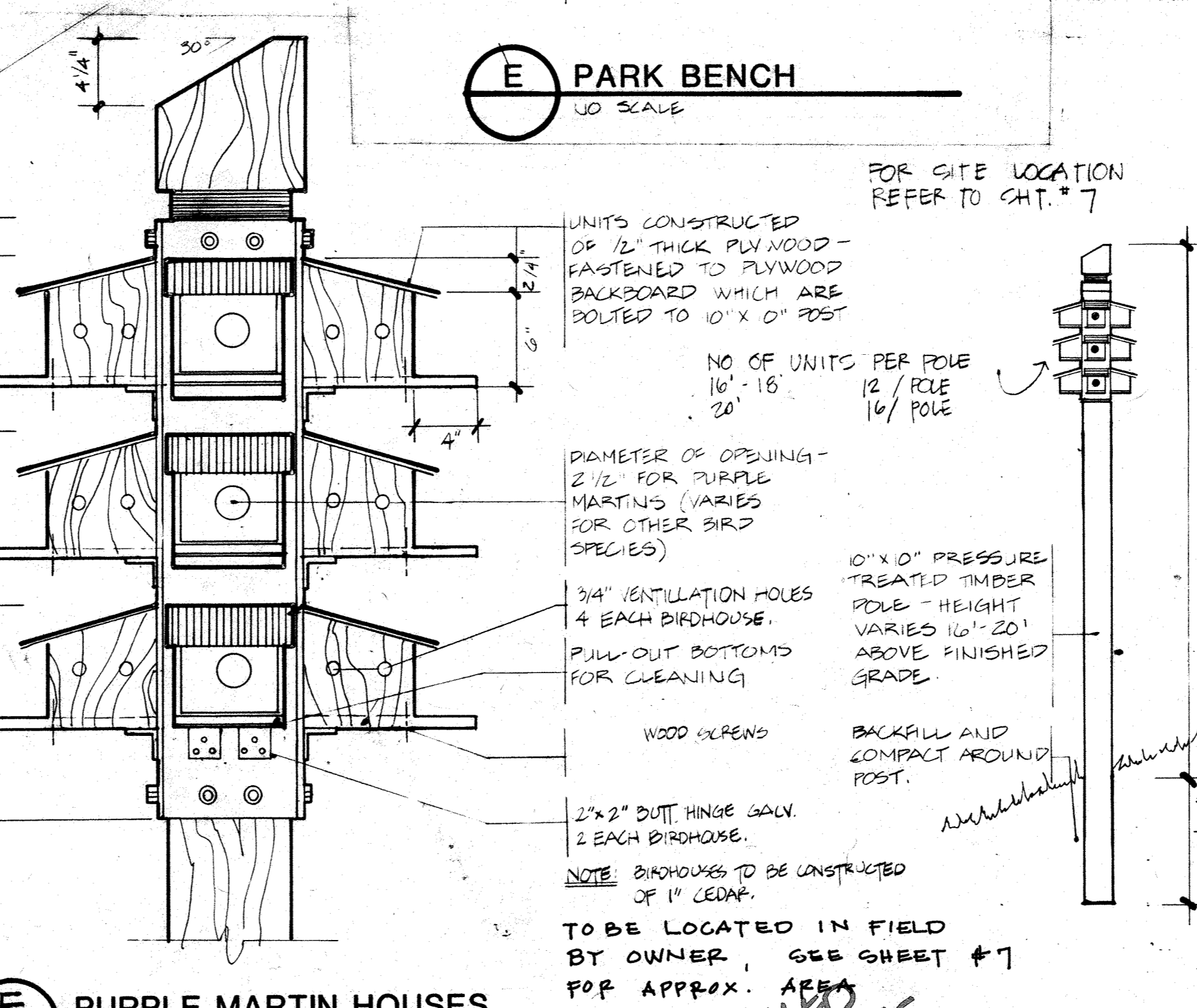
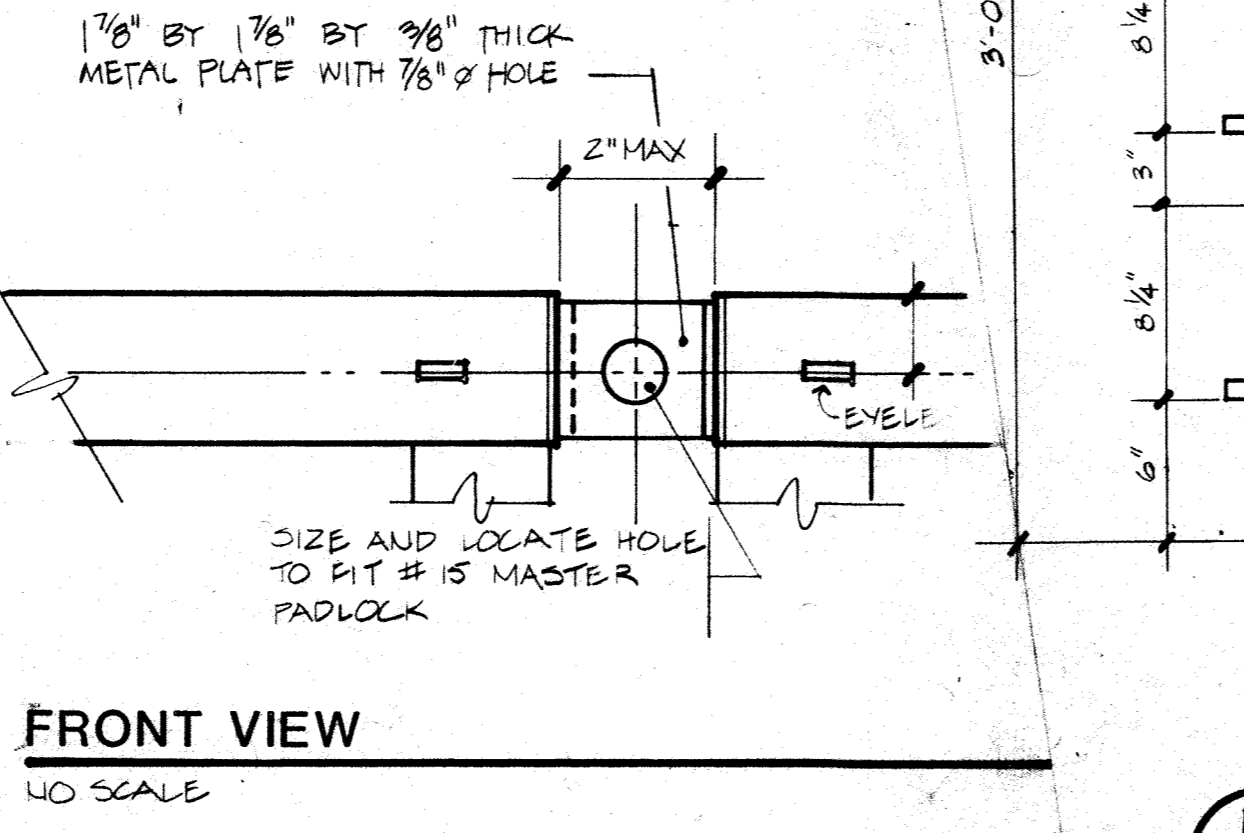
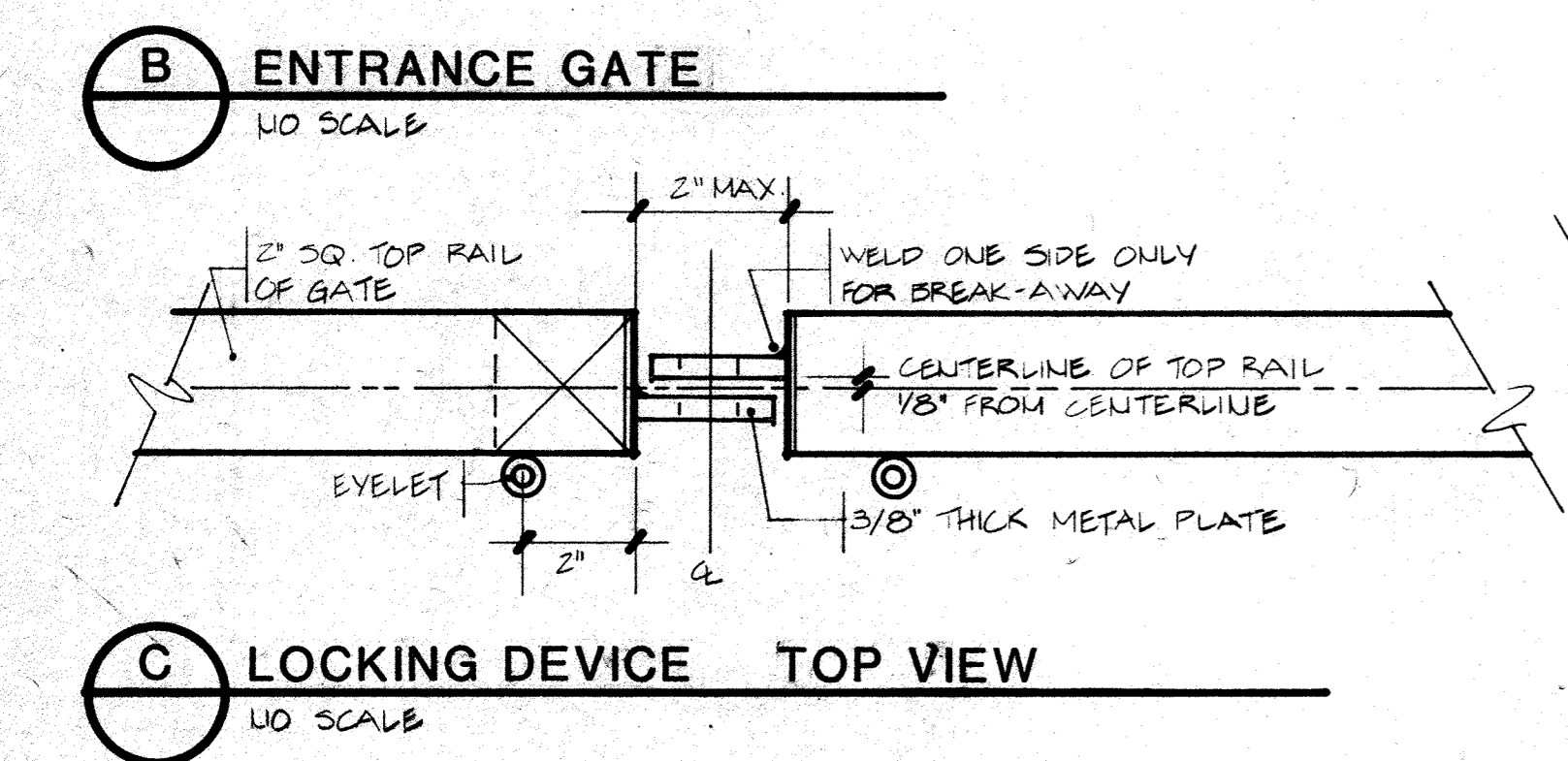
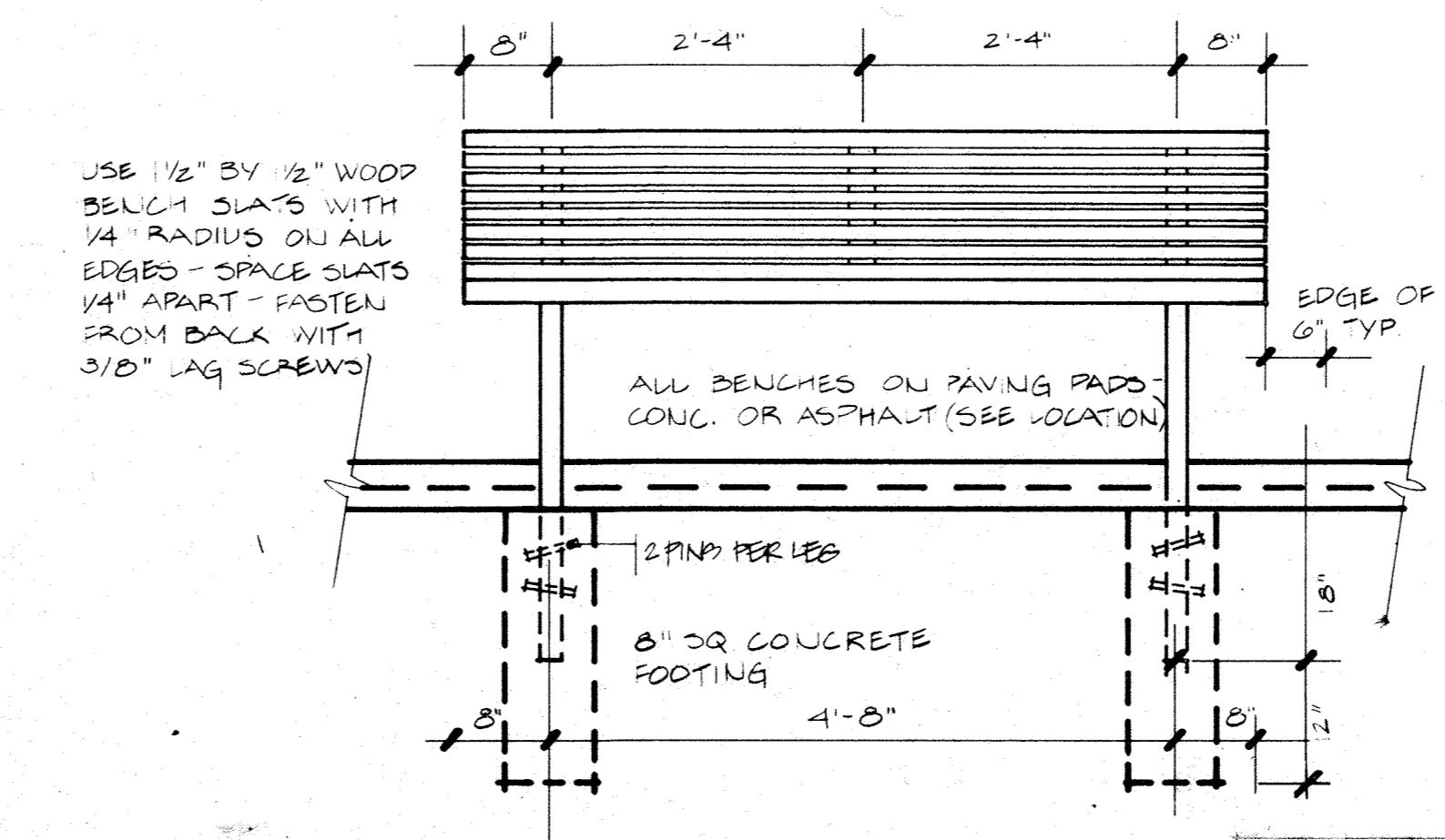
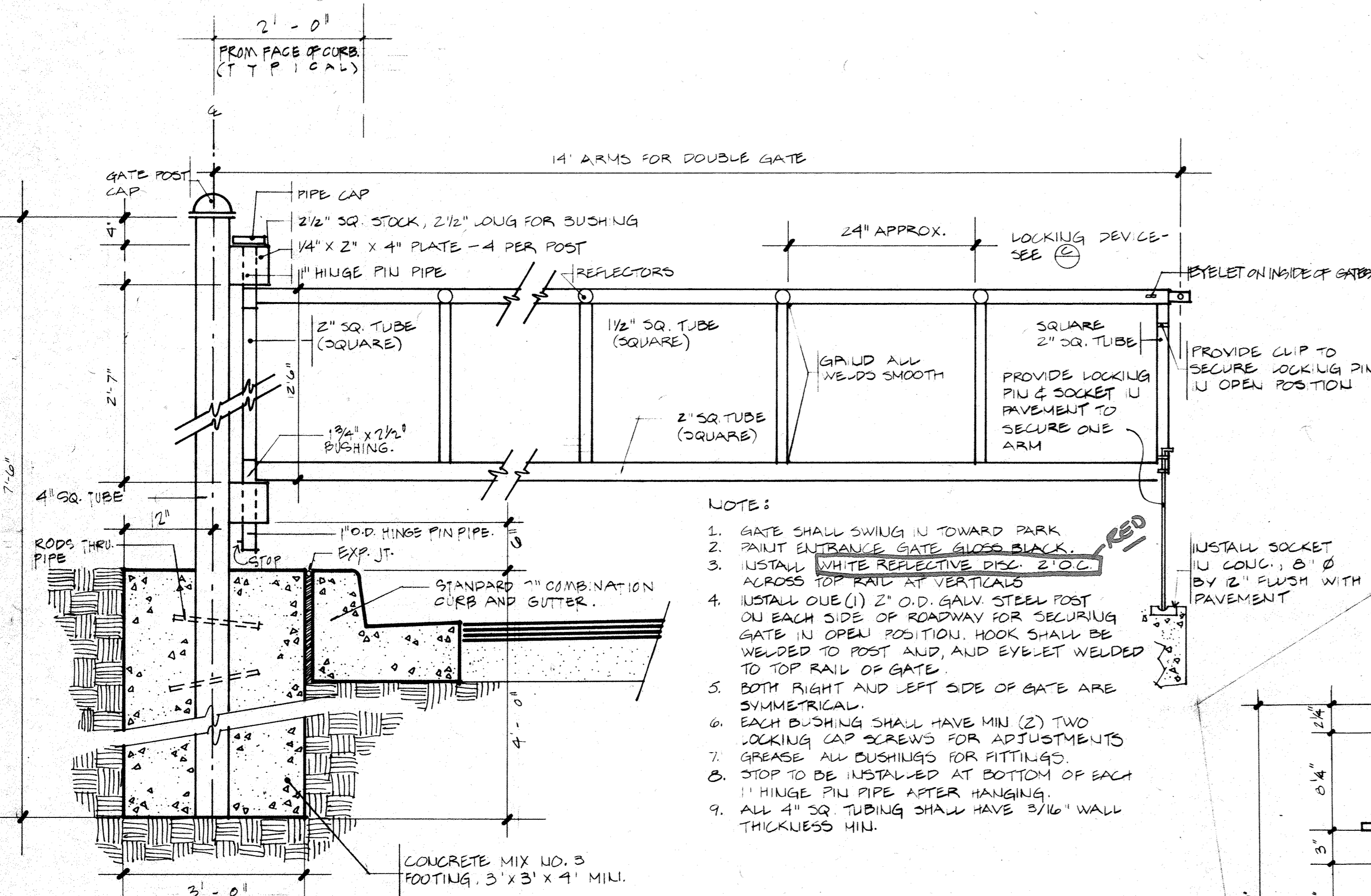
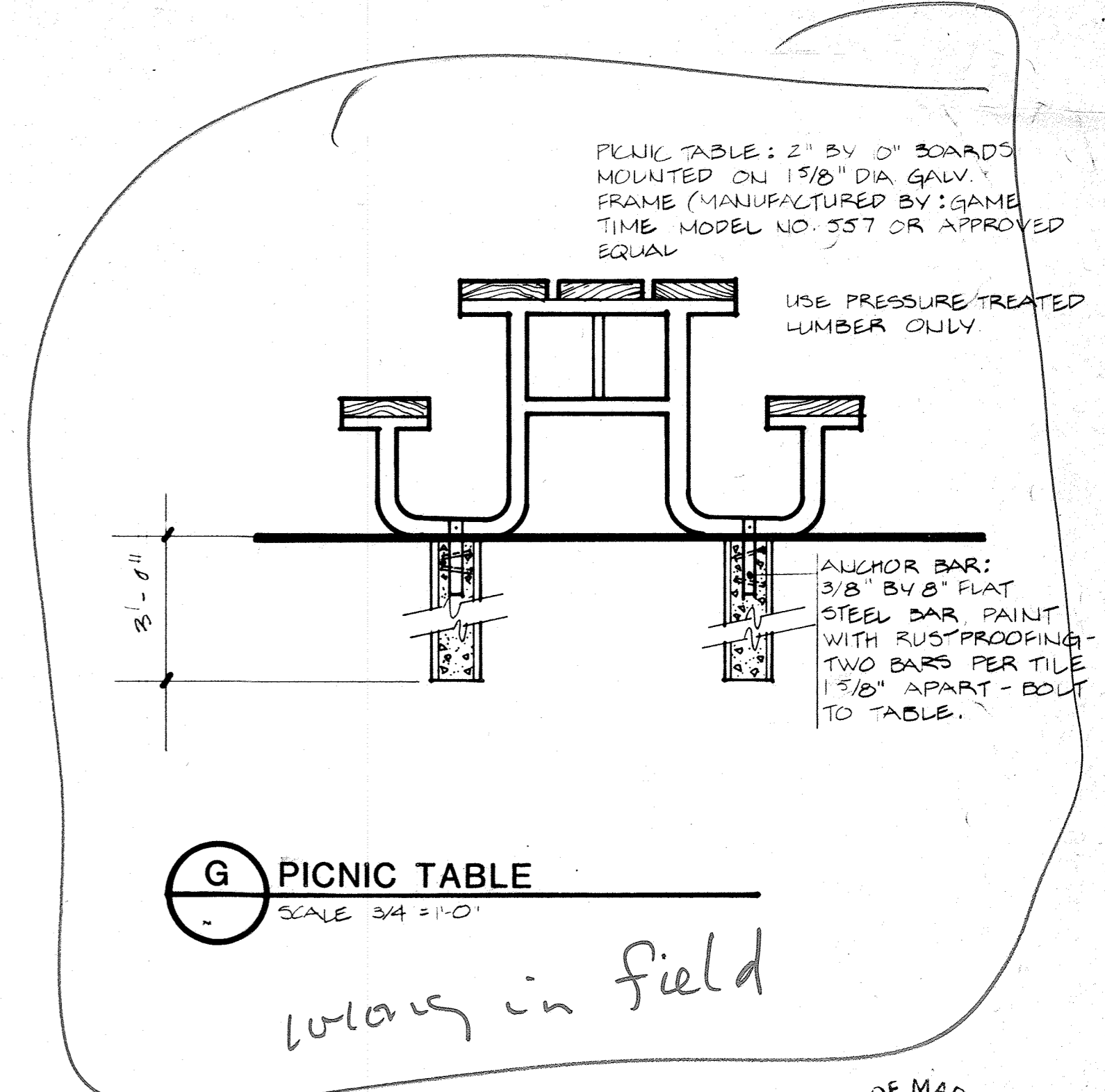
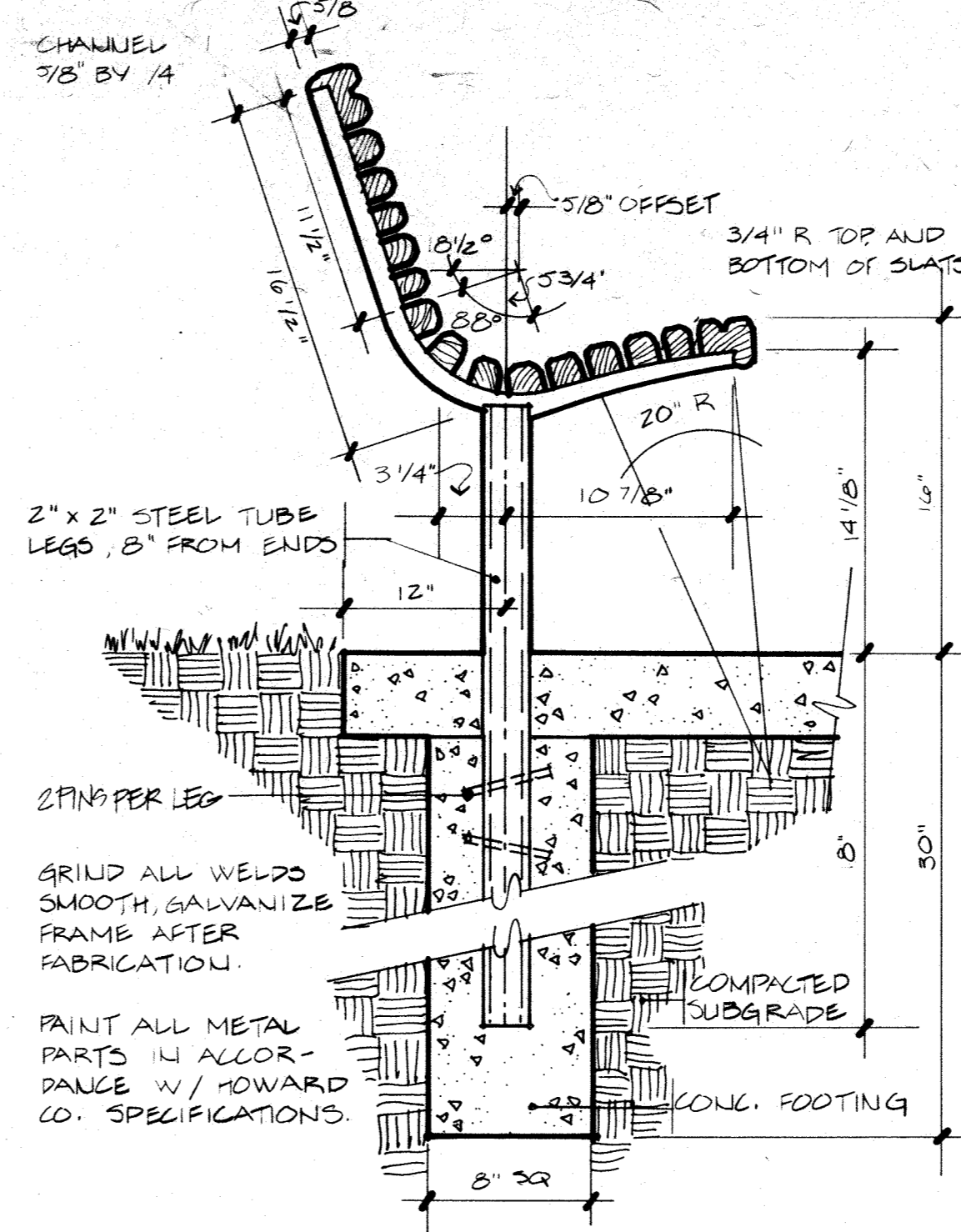
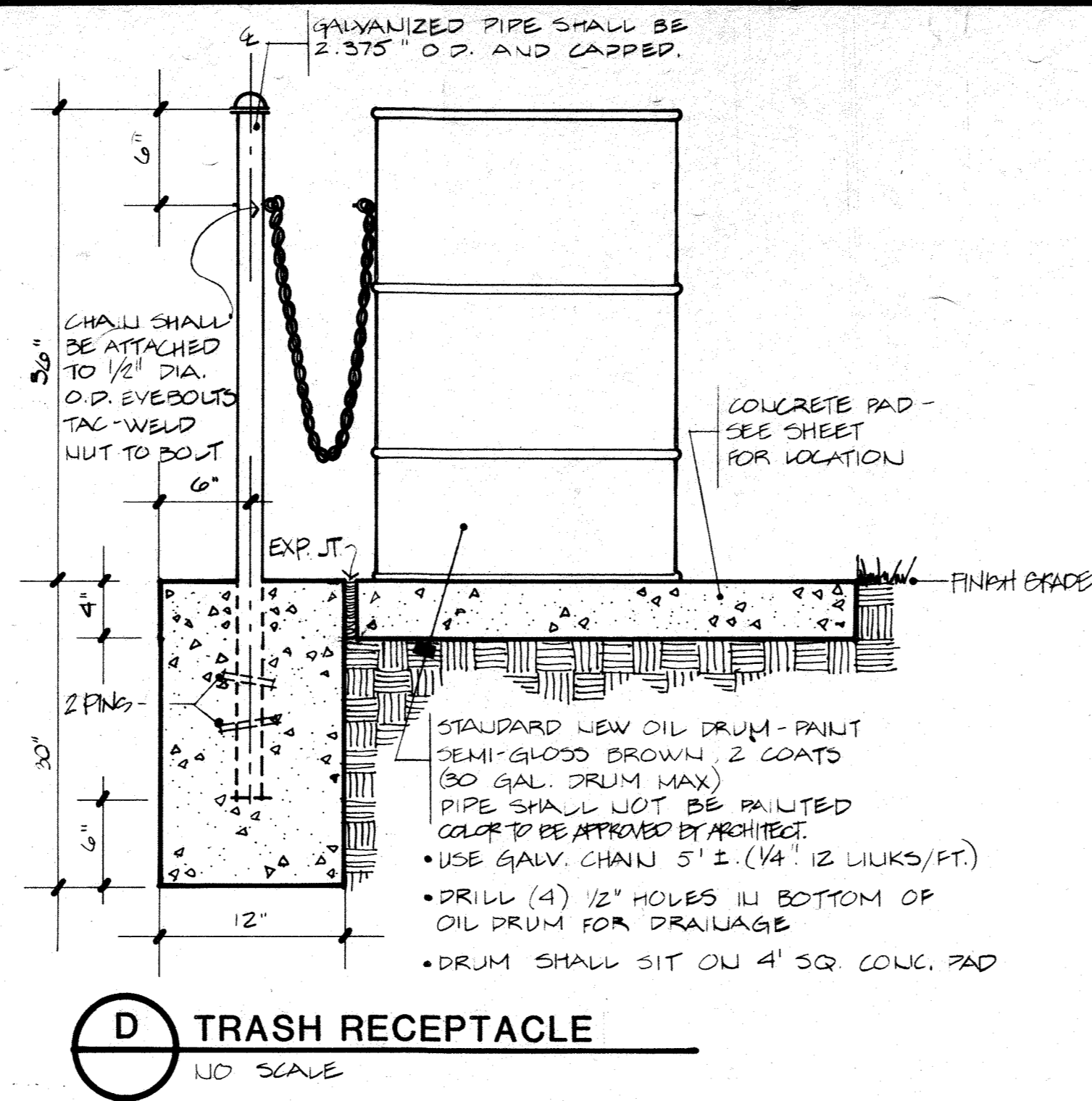
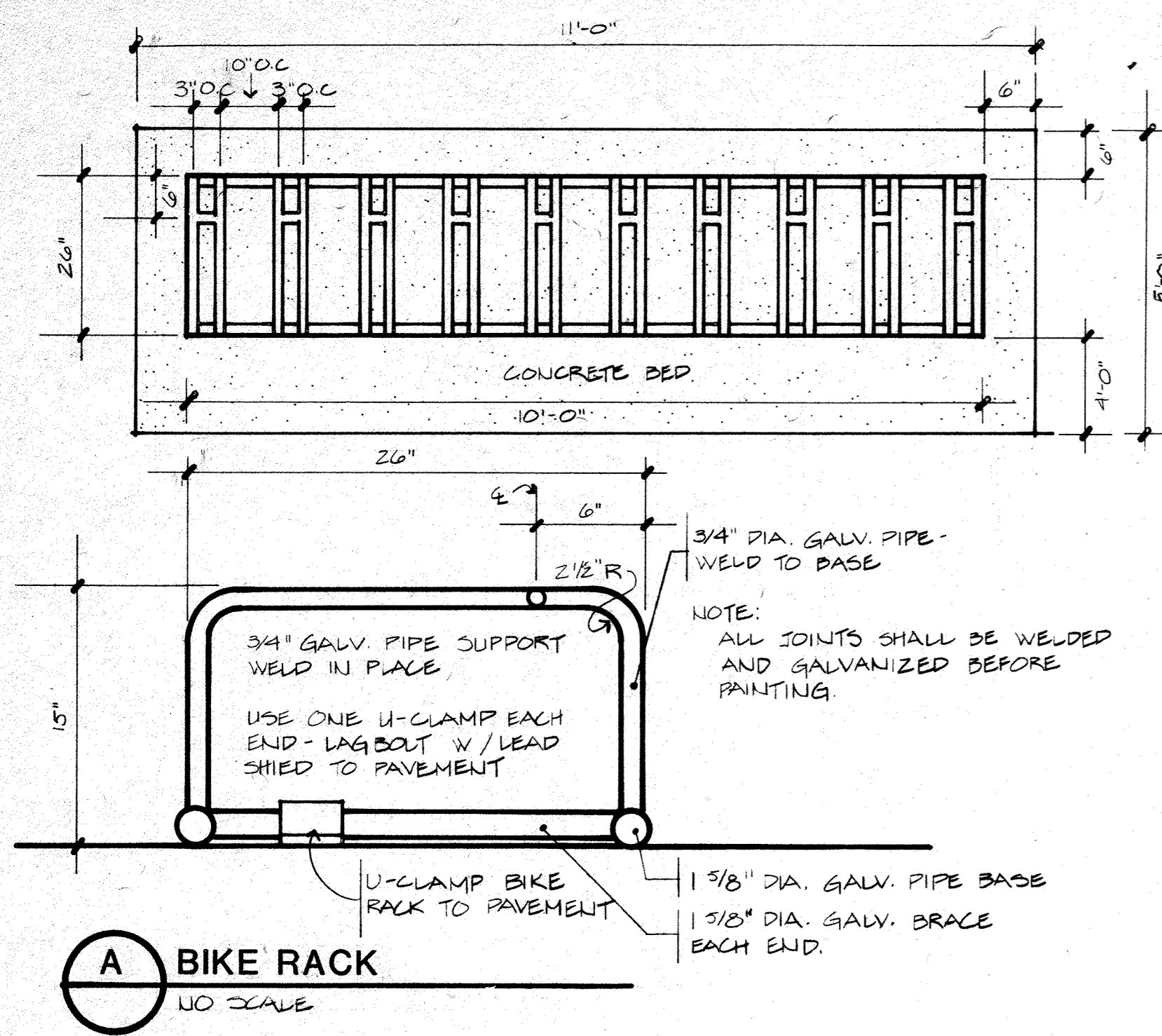
East: John T. Mason, Jr.
Liber 276 Folio 575, Parcel 86

West: Roland D. Zaiser, Et Al
Liber 831, Folio 321, Parcel 160

D LAND DESIGN/RESEARCH, INC.

1511-24

CENTENNIAL PARK



APPROVED: For Public Water, Drainage Systems and Roads and Storm

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Ray F. Nease 8-28-84
DIRECTOR DATE

James R. Ryan 8-28-84
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: For Public Water and Private Sewerage Systems

HOWARD COUNTY HEALTH DEPARTMENT

Joseph J. Ryan 1-27-84
COUNTY HEALTH OFFICER DATE

APPROVED: Howard County Office of Planning and Zoning

Thomas J. Smith 8-29-84
PLANNING DIRECTOR DATE

John J. Hinchey 8-29-84
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City, Elect. Dist. No. 2, Ho. Co. Tax Map No. 30, Law Docket A-3652, Liber 781 Folio 592, Parcel 345, 63.6 Ac., Liber 333 Folio 62, Parcel (Partial) 10, 42.9 Ac., Liber 507 Folio 437, Parcel 278, 61.45 Ac.

Adjacent Property Owners:

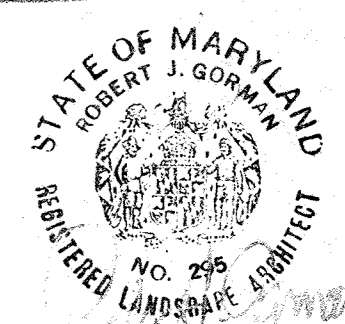
Liber Folio Acres	Parcel
Legg, M. R.	875 471 1.01 126
Zaiser, W. J.	259 105 7.08 92
Saas, J. A.	274 299 2.36 93
Taury, J. P.	611 589 1.23 149
	383 604 1.16 94

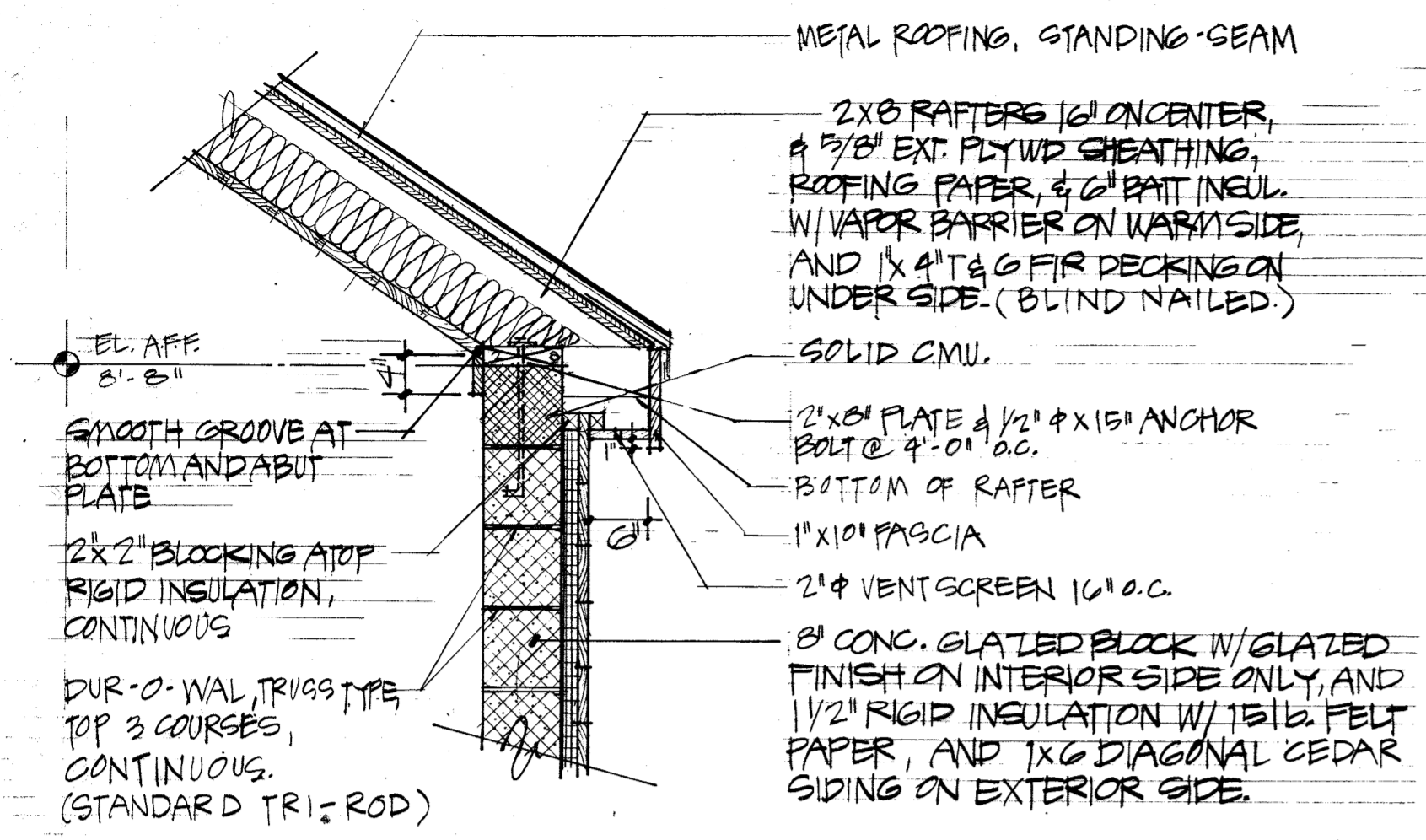
LD LAND DESIGN / RESEARCH, INC.
5560 STERRETT PLACE, SUITE 300
COLUMBIA, MARYLAND

MISCELLANEOUS DETAILS

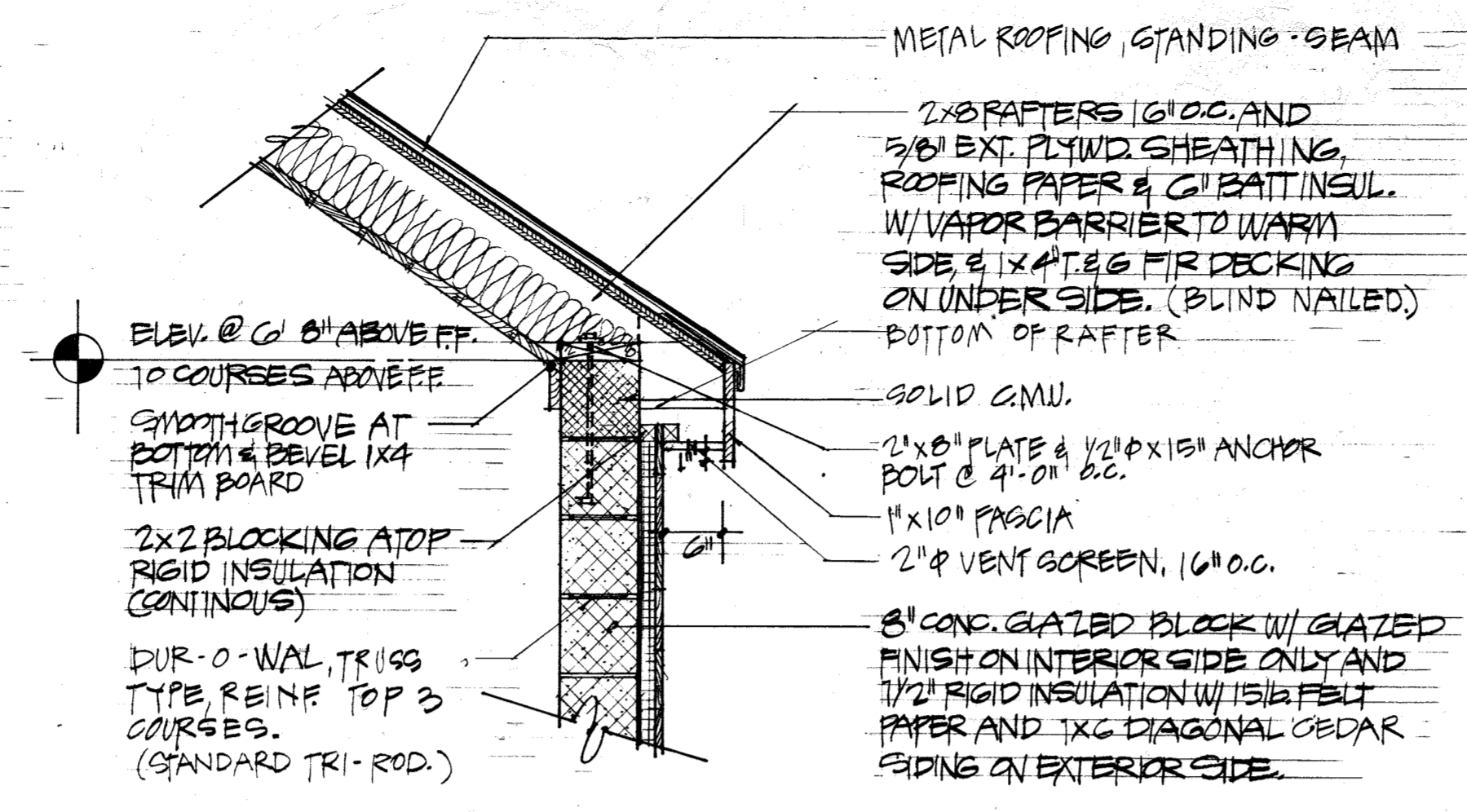
CENTENNIAL PARK
PHASE FOUR - LAKESHORE SOUTH AREA

DATE	6/1/83	REVISIONS:	SHEET NO.
SCALE	AS SHOWN		29
DRAWN			OF 81
CHECKED	10-21-83		

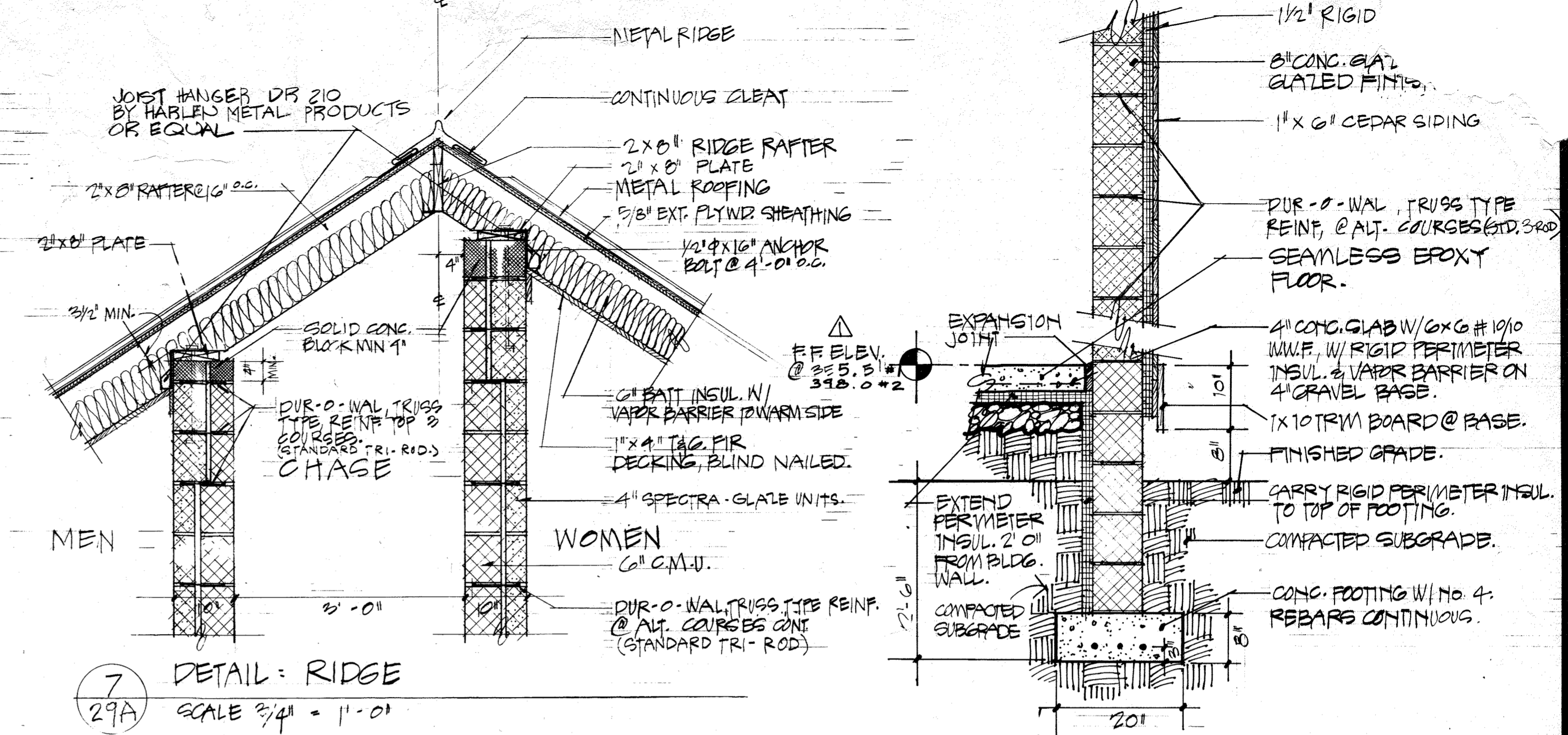




1 DETAIL @ HIGHER BLOCK WALL
29A SCALE 3/4" = ONE FOOT.

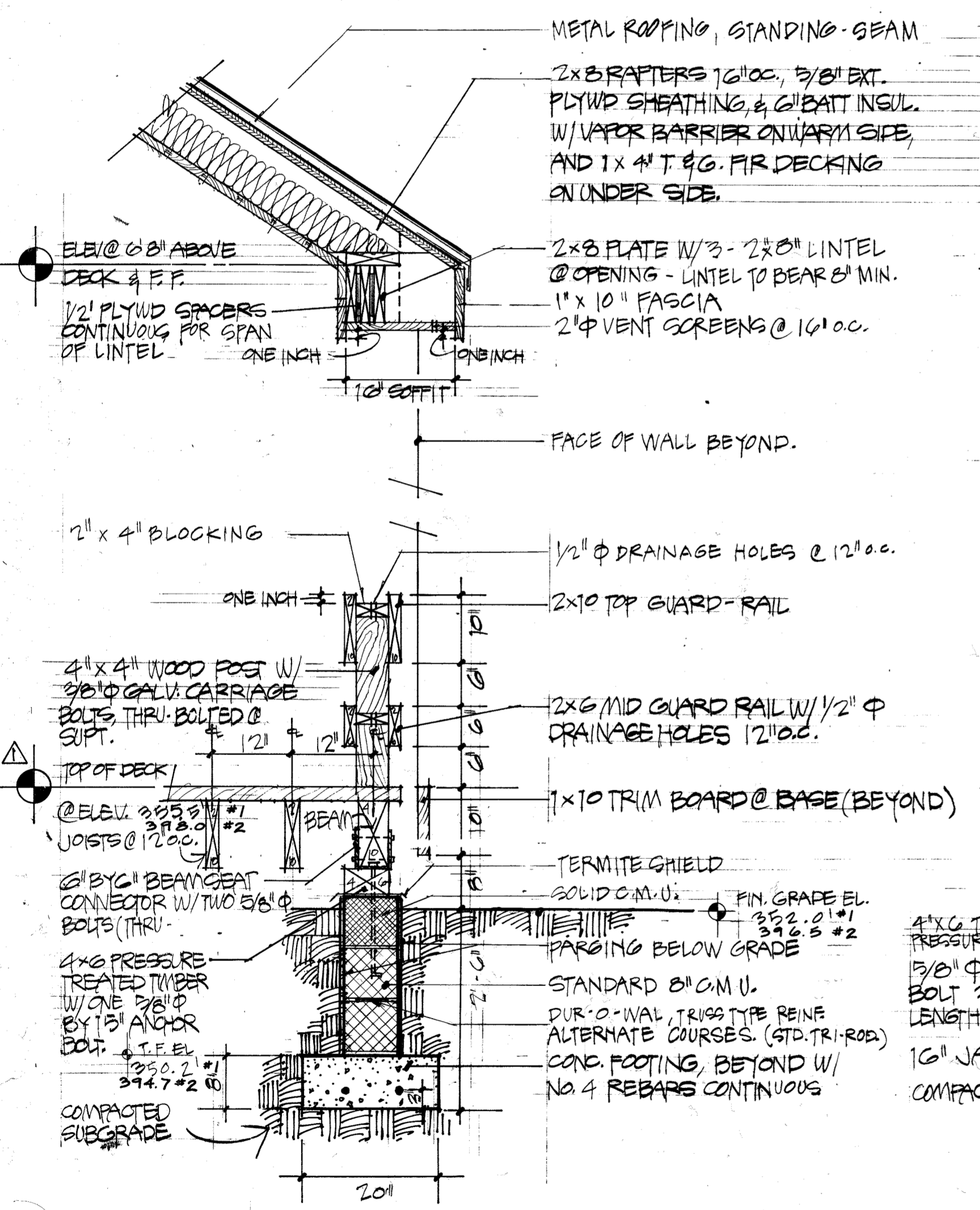


2 DETAIL @ LOWER BLOCK WALL
29A SCALE 3/4" = ONE FOOT.

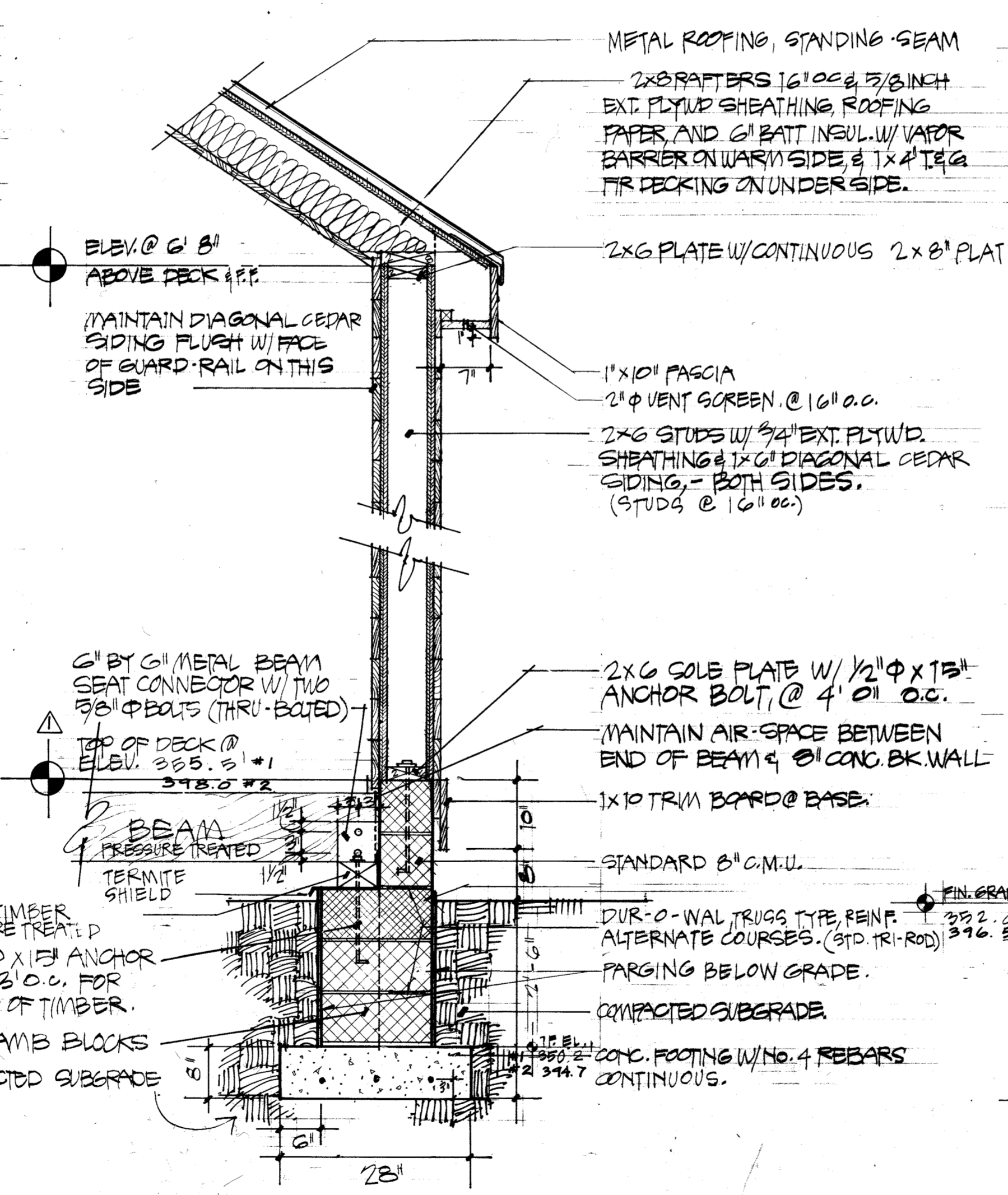


7 DETAIL: RIDGE
29A SCALE 3/4" = ONE FOOT.

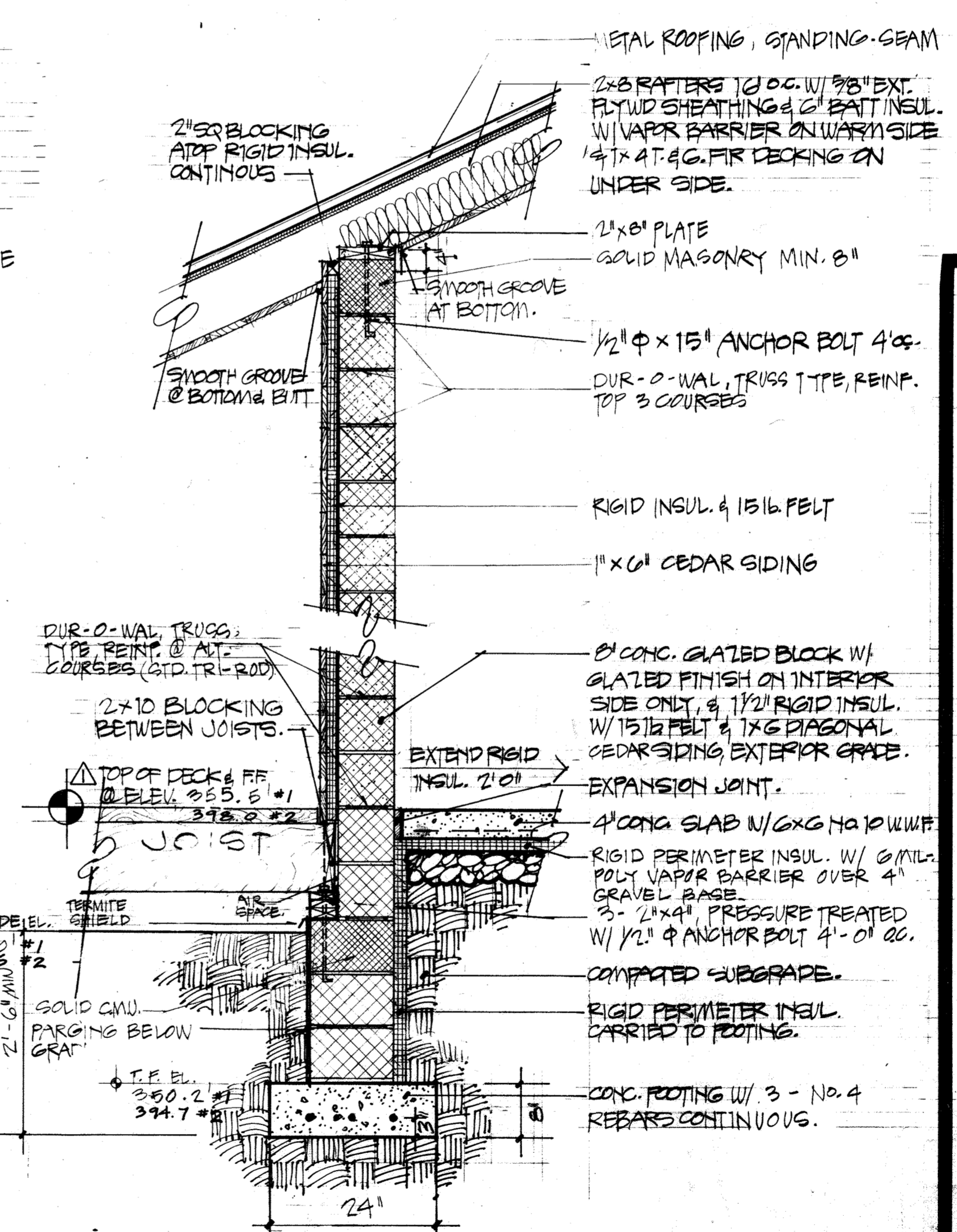
6 FOUNDATION @ BLOCK WALL (TYPICAL)
29A SCALE 3/4" = ONE FOOT.



3 HEADER DETAIL @ OPENING
29A SCALE 3/4" = ONE FOOT.



4 DETAIL @ WOOD WALL
29A SCALE 3/4" = ONE FOOT.



5 DETAIL @ BLOCK WALL
29A SCALE 3/4" = ONE FOOT.

NOTE:
ALL DECKING & DECK FRAMING MEMBERS SHALL BE PRESSURE TREATED. (SEE SPEC'S.)
VAPOR BARRIER UNDER 4" CONC. SLAB SHALL BE 6MILL. (SEE SPEC'S.)

Add Alternate #1 entire sheet

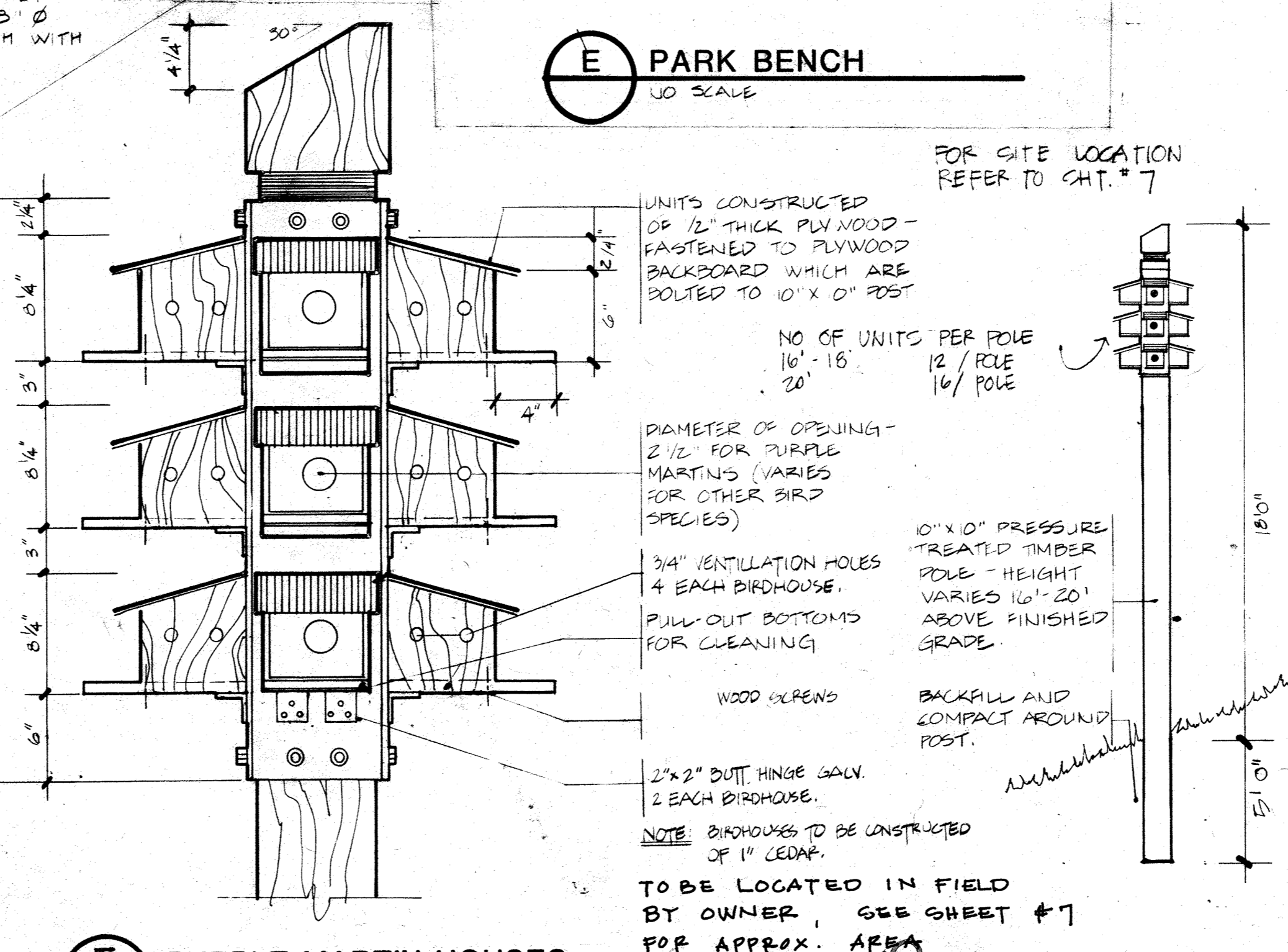
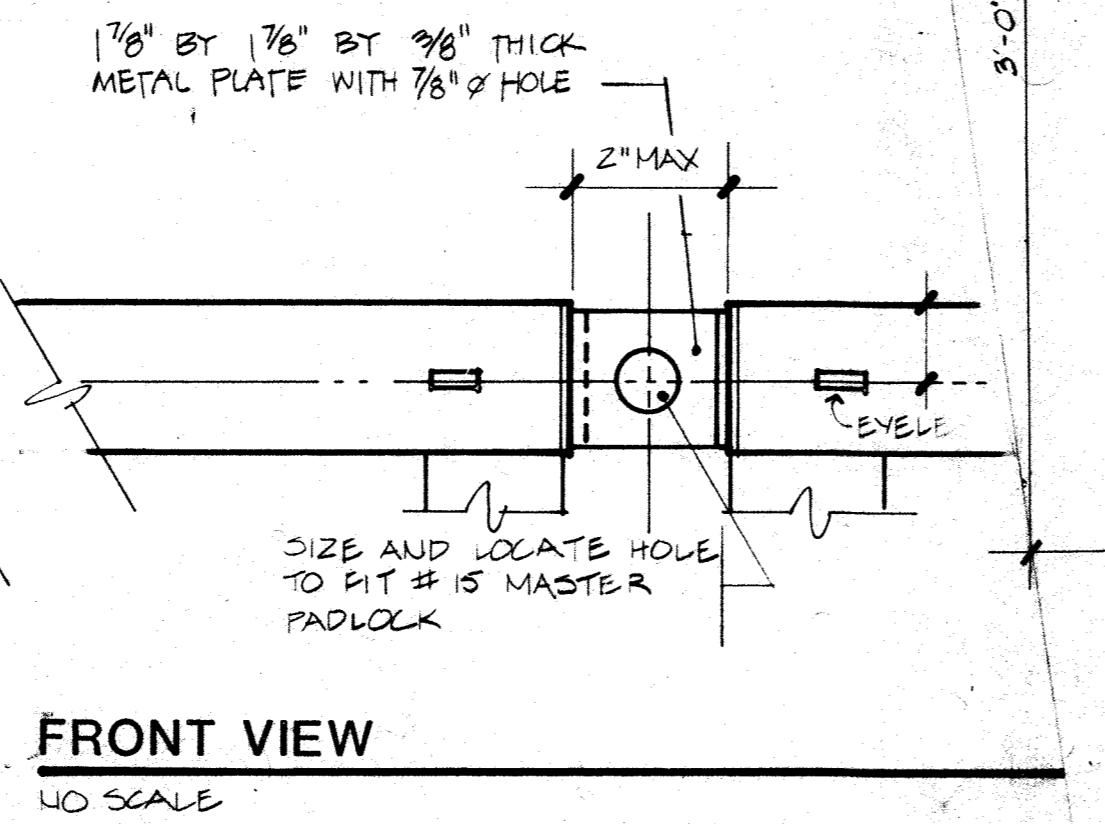
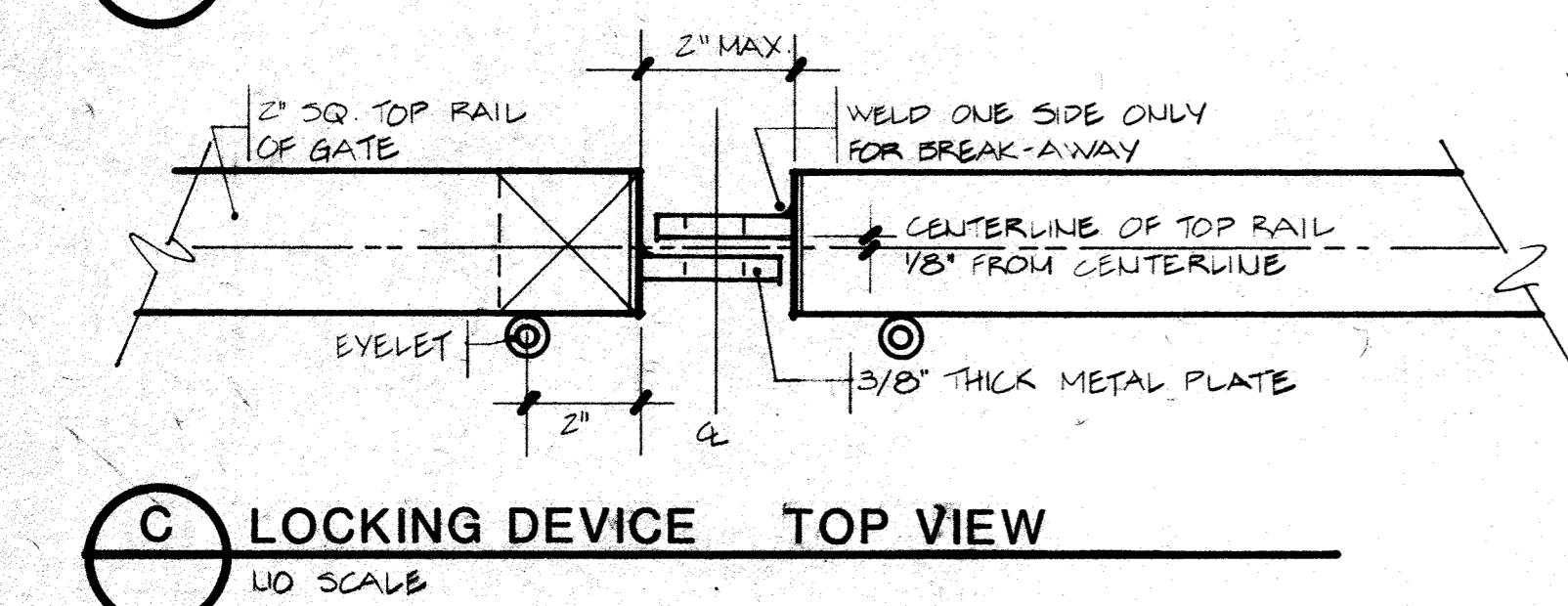
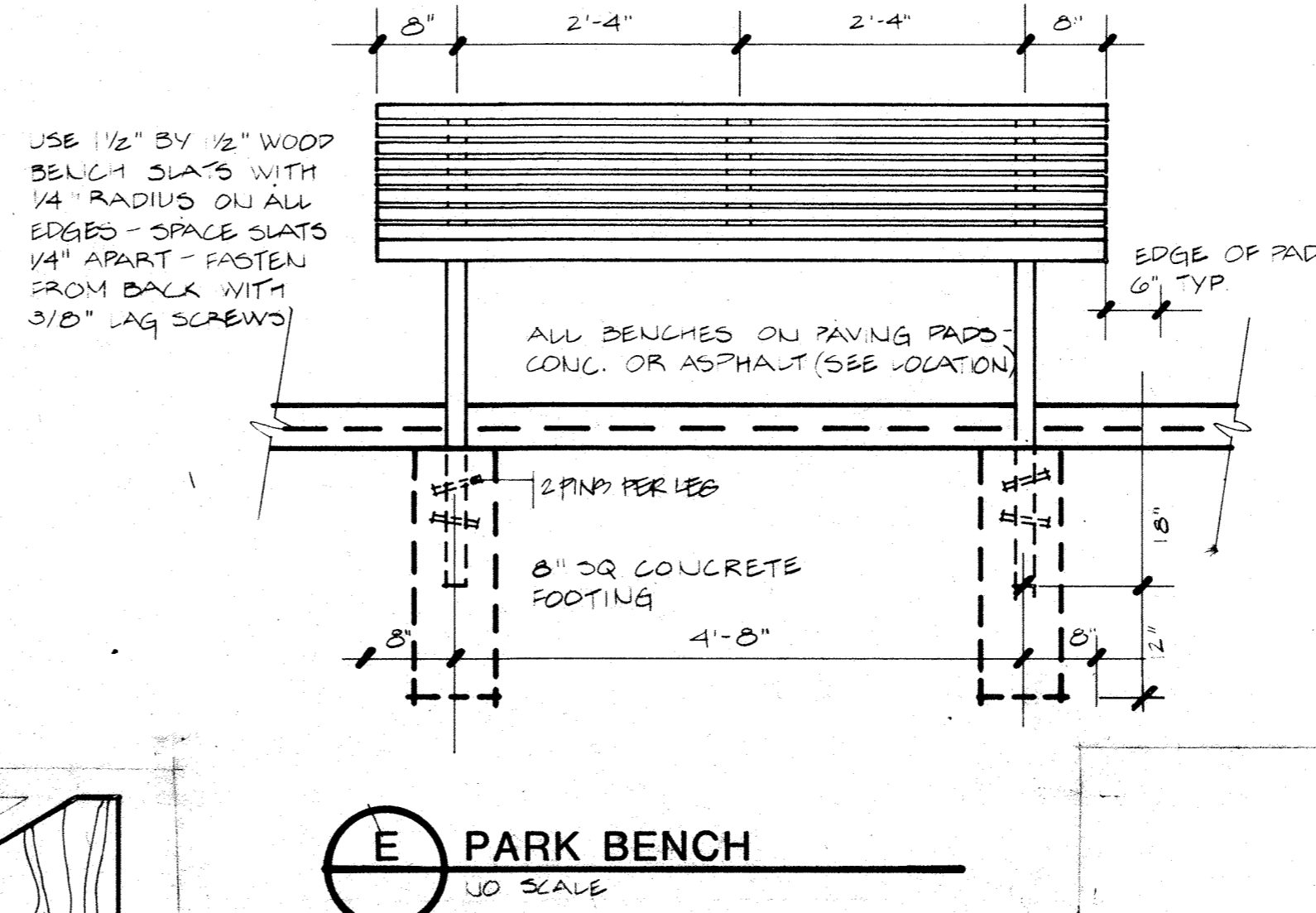
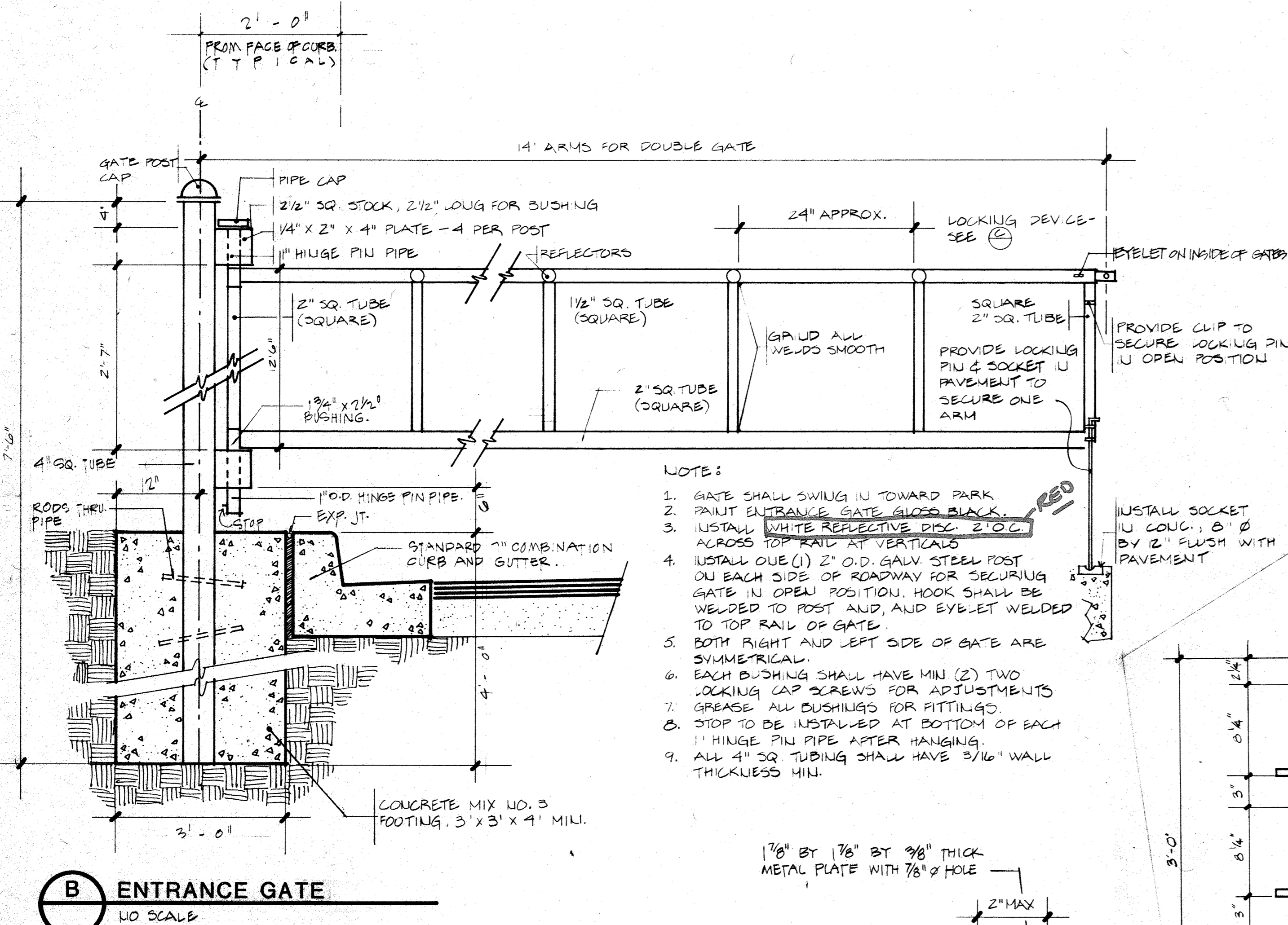
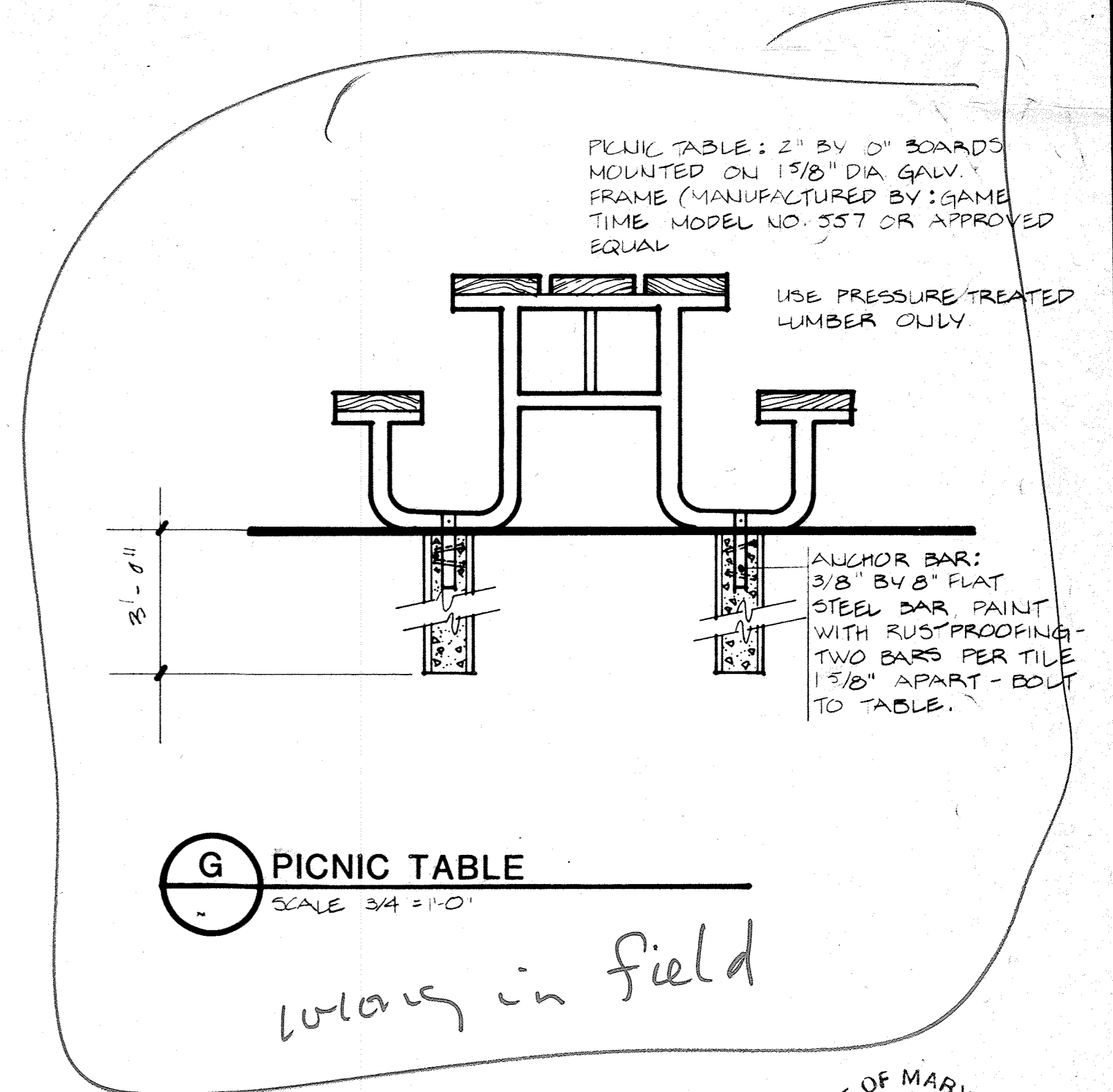
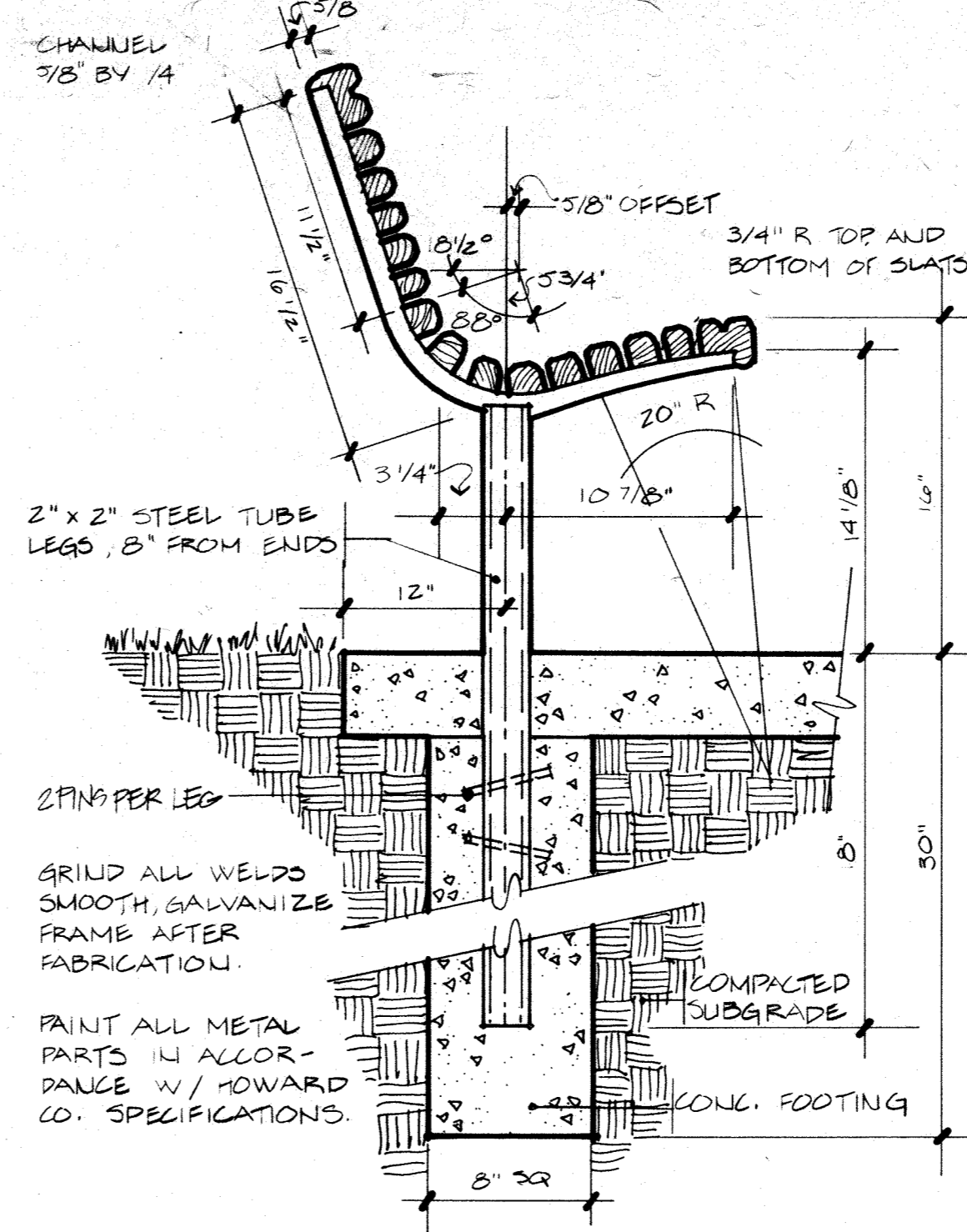
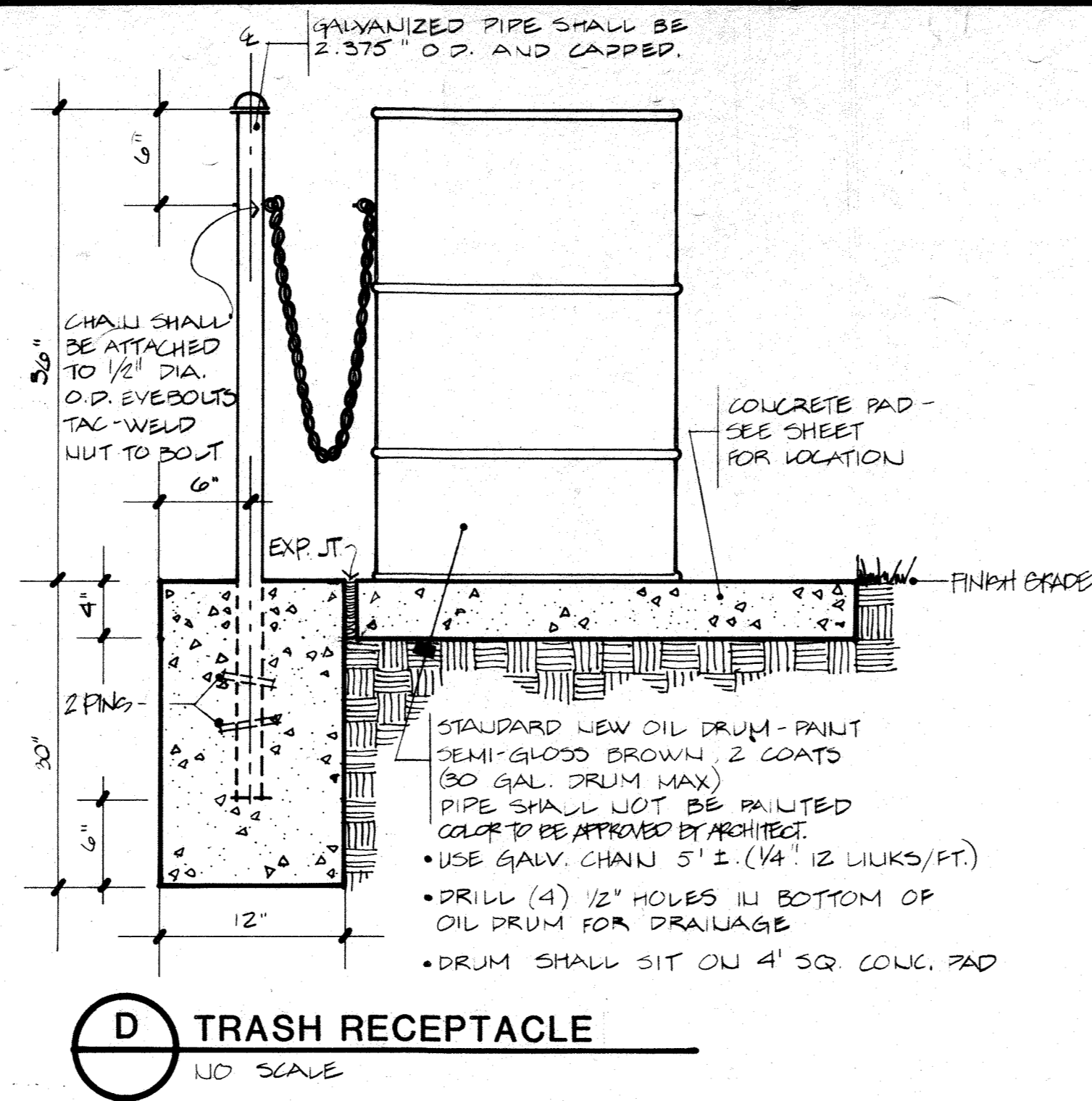
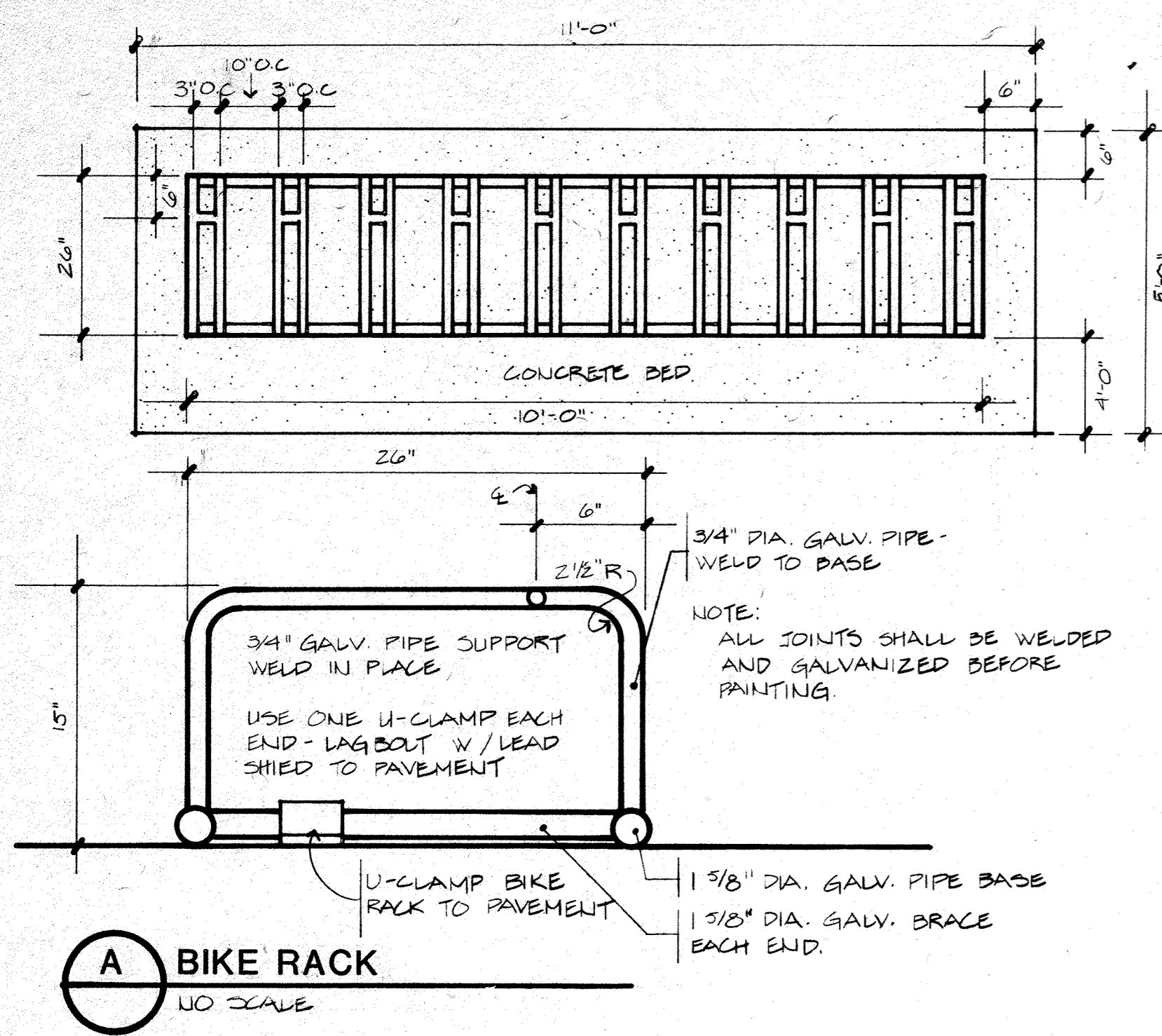
APPROVED: For public Water, Drainage Systems and Storm	and Storm
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>Shay E. Nunn</i>	8-28-87
DIRECTOR	DATE
<i>Richard S. Ryan</i>	10-22-85
CHIEF, BUREAU OF ENGINEERING	DATE
APPROVED: For public Water and Private	
Sewerage Systems	
HOWARD COUNTY HEALTH DEPARTMENT	
<i>Joseph Boyd</i>	1-25-87
COUNTY HEALTH OFFICER	DATE
APPROVED: Howard County Office of Planning and Zoning	
<i>Thomas L. Amigo</i>	8-29-84
PLANNING DIRECTOR	DATE
<i>Paul H. ...</i>	8-29-87
CHIEF, DIVISION OF LAND DEVELOPMENT & ZONING ADMIN.	DATE

Howard County, Md., Dept. of Public Works
for the Dept. of Rec. and Parks, 3430 Court House Drive, Bellicott City, Maryland
Election District No. 2 Howard Co., Md.
Tax Map No. 30
Liber 885 Folio 76, Parcel 10, 43.18 ac.
Liber 507 Folio 437, Parcel 278, 61.45 ac.
Adjacent Property Owners
East: John T. Mason, Jr.
Liber 276 Folio 575, Parcel 86
West: Roland D. Zaiser, Et Al
Liber 831, Folio 321, Parcel 160

LAND DESIGN / RESEARCH, INC.
2800 STEWETT PLACE, SUITE 300
COLUMBIA, MARYLAND

CENTENNIAL PARK
PHASE FOUR - LAKESHORE SOUTH AREA

DATE	8-28-87	REVISIONS	
SCALE			5-11-84



APPROVED: For Public Water, Drainage Systems and Roads and Storm

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Ray F. Nease 8-28-84
DIRECTOR DATE

James R. Ryan 8-28-84
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: For Public Water and Private Sewerage Systems

HOWARD COUNTY HEALTH DEPARTMENT

Joseph J. Ryan 1-27-84
COUNTY HEALTH OFFICER DATE

APPROVED: Howard County Office of Planning and Zoning

Thomas J. Smith 8-29-84
PLANNING DIRECTOR DATE

John J. Hinchey 8-29-84
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City, Elect. Dist. No. 2, Ho. Co. Tax Map No. 30, Law Docket A-3652, Liber 781 Folio 592, Parcel 345, 63.6 Ac., Liber 333 Folio 62, Parcel (Partial) 10, 42.9 Ac., Liber 507 Folio 437, Parcel 278, 61.45 Ac.

Adjacent Property Owners:

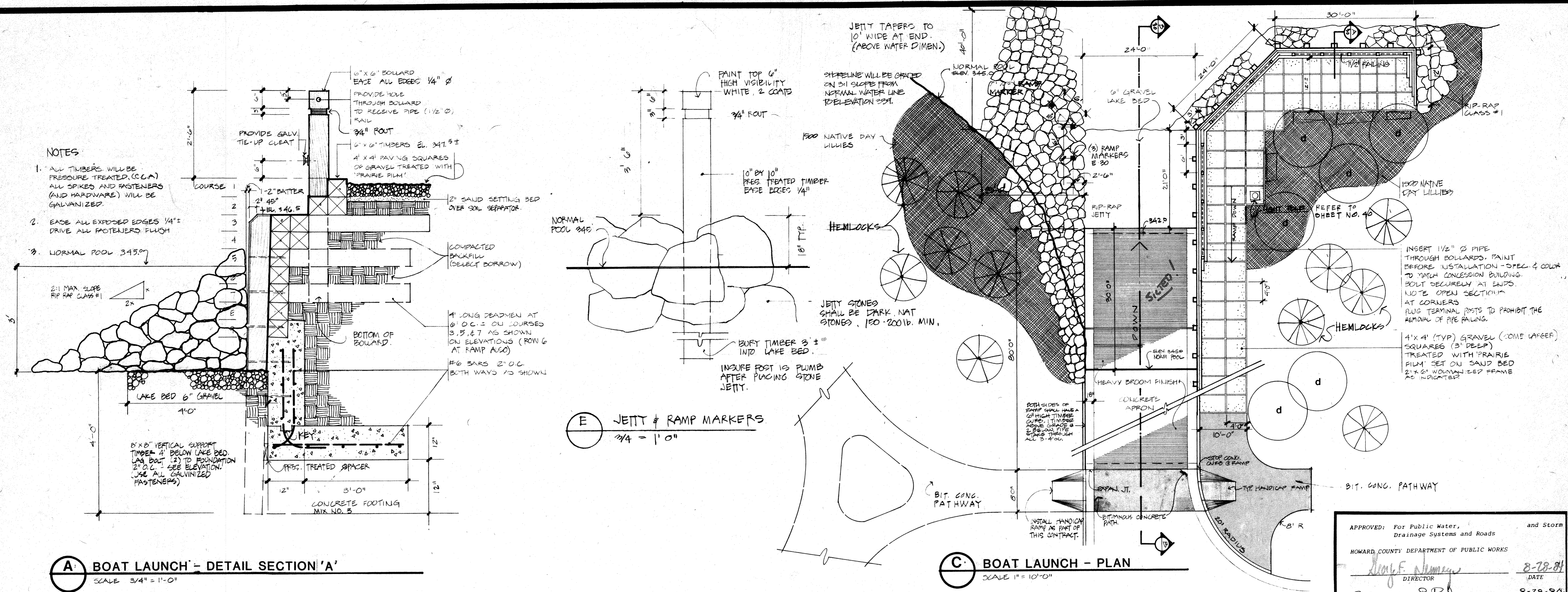
Liber Folio Acres	Parcel
Legg, M. R.	875 471 1.01 126
Zaiser, W. J.	259 105 7.08 92
Saas, J. A.	274 299 2.36 93
Taury, J. P.	611 589 1.23 149
	383 604 1.16 94

LD LAND DESIGN / RESEARCH, INC.
5560 STERRETT PLACE, SUITE 300
COLUMBIA, MARYLAND

MISCELLANEOUS DETAILS

CENTENNIAL PARK
PHASE FOUR - LAKESHORE SOUTH AREA

DATE	6/1/83	REVISIONS:	SHEET NO.
SCALE	AS SHOWN		29
DRAWN			OF 81
CHECKED	10-21-83		



APPROVED: For Public Water, Drainage Systems and Roads and Storm

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

John F. Hume 8-28-84
DIRECTOR DATE

William E. Pugh 8-28-84
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: For Public Water and Private Sewerage Systems

HOWARD COUNTY HEALTH DEPARTMENT

Joseph P. Jones 1-25-84
COUNTY HEALTH OFFICER DATE

APPROVED: Howard County Office of Planning and Zoning

Thomas J. Hamill 8-29-84
PLANNING DIRECTOR DATE

William J. ... 8-29-84
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City

Elect. Dist. No. 2, Ho. Co. Tax Map No. 30
Law Docket A-3652
Liber 781 Folio 592, Parcel 345, 63.6 Ac.
Liber 333 Folio 62, Parcel (Partial) 10, 42.9 Ac.
Liber 507 Folio 437, Parcel 278, 61.45 Ac.

Adjacent Property Owners:

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Zaiser, W. J.	259	105	7.98 92
Saas, J. A.	274	299	2.36 93
Taury, J. P.	611	589	1.23 149
	383	604	1.16 94

LD R LAND DESIGN / RESEARCH, INC.
5560 STERRETT PLACE, SUITE 300
COLUMBIA, MARYLAND

BOAT LAUNCH RAMP
CENTENNIAL PARK
PHASE FOUR - LAKESHORE SOUTH AREA

DATE: 8-1-83 REVISIONS: SHEET NO. 30 OF 81

SCALE: AS NOTED

DRAWN: AS NOTED

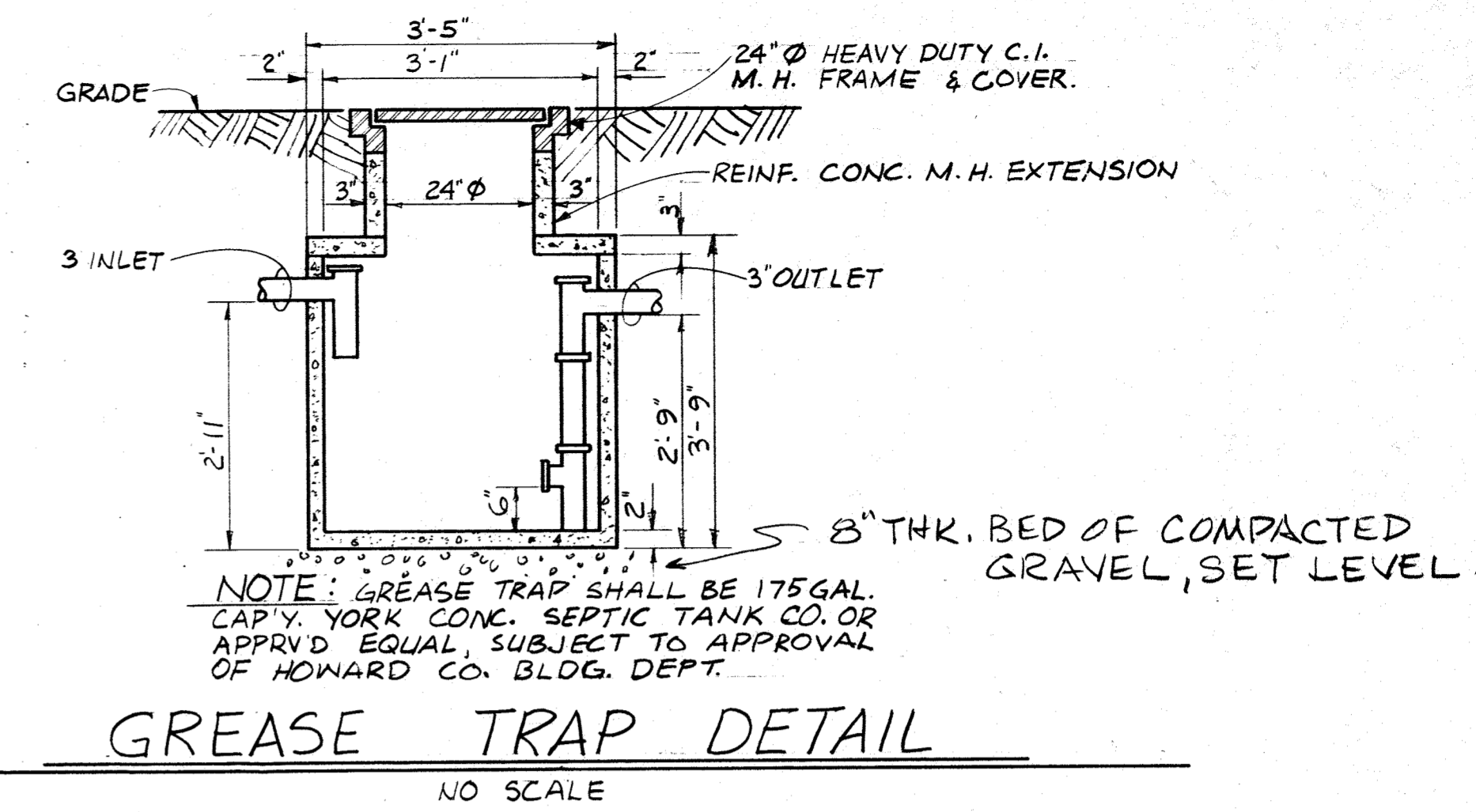
CHECKED: 11-21-83

STATE OF MARYLAND
ROBERT J. GORHAM
REGISTERED LANDSCAPE ARCHITECT
NO. 286

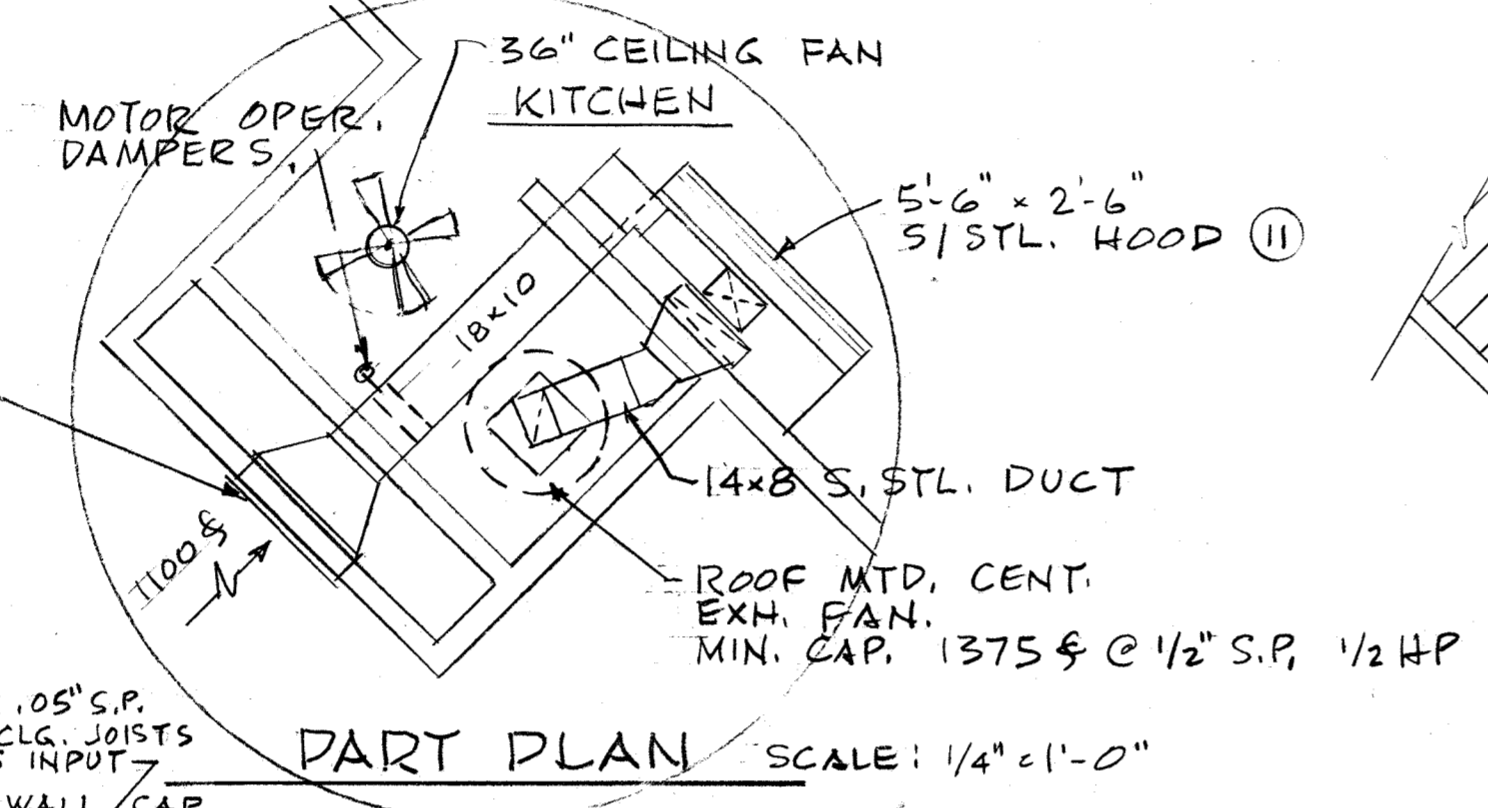
SDP-84-165

FOOD & BEVERAGE FACILITIES - SCHEDULE

ITEM NO.	QTY	NOTE	DESCRIPTION	WATER		DRAINS		ELECTRIC				REMARKS		
				H.W.	C.W.	DIR.	INDIRECT	HP	KW	AMP	VOLT		Ø	HZ
1	4		SHELVING UNITS									MOBILE		
2	1		PASS THRU COUNTER											
3	1		STAND											
4	1		BEVERAGE DISPENSER			1" TO FD		1/4"		60	115	1/60	SEE SPECIFICATIONS	
5	1		CARBONATOR								115	1/60	"	
6	1		CO ₂ CYLINDER		1/4"			1/4"					"	
7	1		STRIP CYLINDERS										"	
8	1		ICE MAKER WITH STORAGE BIN		3/8"		9/8" TO FS	1/2"		108	115	1/60	"	
9	3		5/8" STL POT SINK - 3 BOWL W/ INTEGRAL DRAINBOARDS	1/2"	1/2"		(B) 1/2" TO FS						WEQLO. MODEL W5B 5-6024A-1B LAR 1818 302 45	
10	1		HAND BASIN W/ 4" HIGH BACKSPASH	1/2"	1/2"	1/2"							5/8" STL ELKAY #CH9-154-U 15" WIDE	
11	1		UPDRAFT EXHAUST W/ FIRE PROTECTION							150	115	1/60	SEE SPECIFICATIONS	
12	1		HOT PLATE							30	14.5	208	1/60	SEE SPECIFICATIONS
13	1		FRYER							4.0	19.5	208	1/60	"
14	1		GRIDDLE							16.4		208	3/60	"
15	1		REFRIGERATOR - FREEZER COMBO					1/4+1/2			115	1/60	REF. 67-150 AMP, FREEZER, 200 AMP	
16	1		5/8" STL COUNTER 3'-0" WIDTH, 10" HIGH BACKSPASH										WEQLO. MODEL "WANT-10" W/ 3/8" V LEGS GALV. UNDER SHELF	
17	1		SERVICE SINK 24" x 24" x 10" W/ 3" DRAIN	1/2"	1/2"	3"							W/ STERN WILLIAMS T-15-VB DBL. FAUCET, VAC. BRKR, ROUGH CHROME FIN., T-35 HOSE, WALL HOOK & STD. P TRAP	

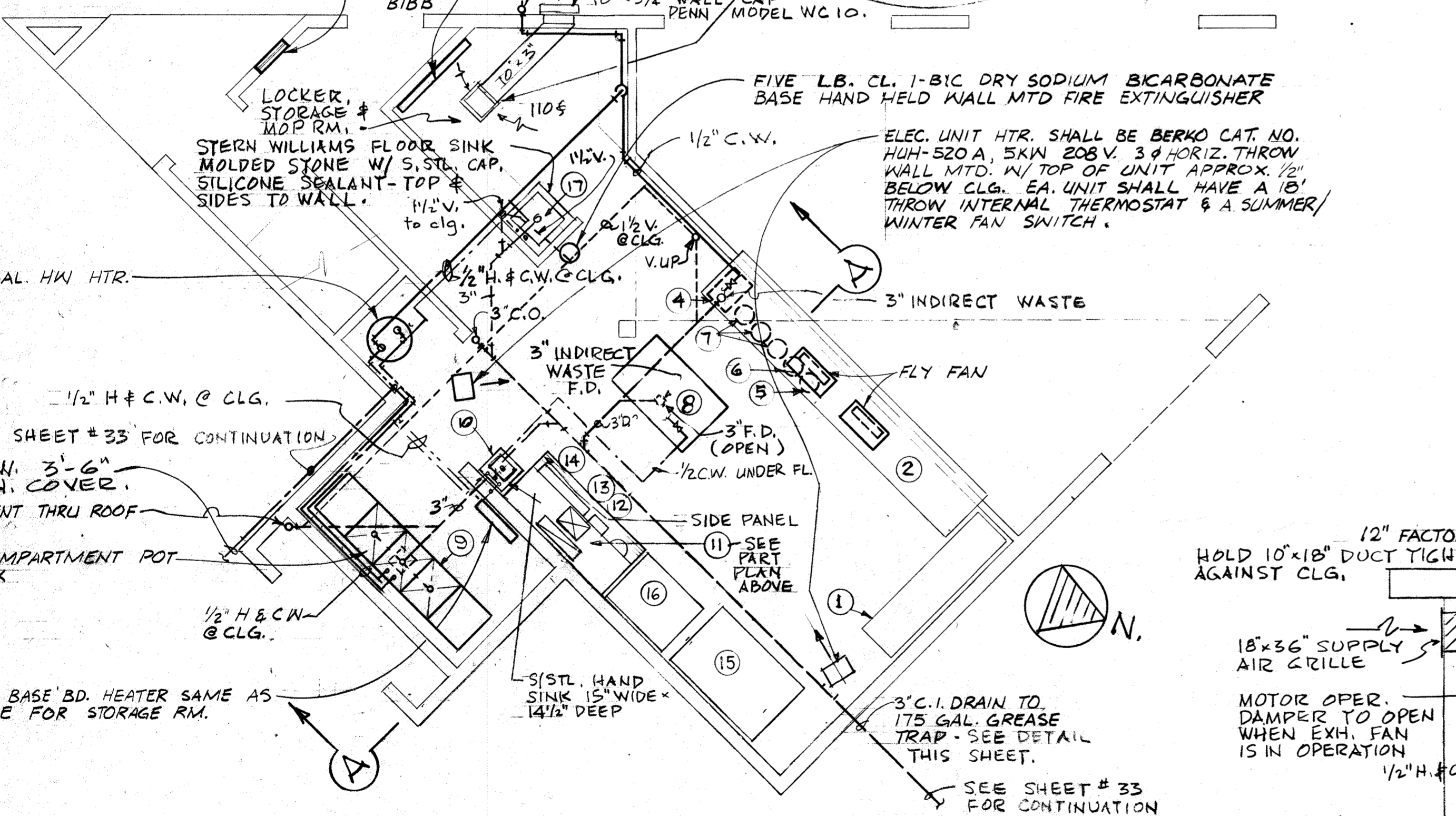


36" x 18" O.A. INTAKE LOUVER - STORMPROOF AIRSTREAM MODEL TA EXTRUDED ALUM. 2" DEPTH, 2" SPACING BOLTED INTO WALL.
NOTE: SUPPLY AIR DUCT CONSTR. (GALV. STL.) PER LATEST SMACNA LOW VEL. DUCT STDS.

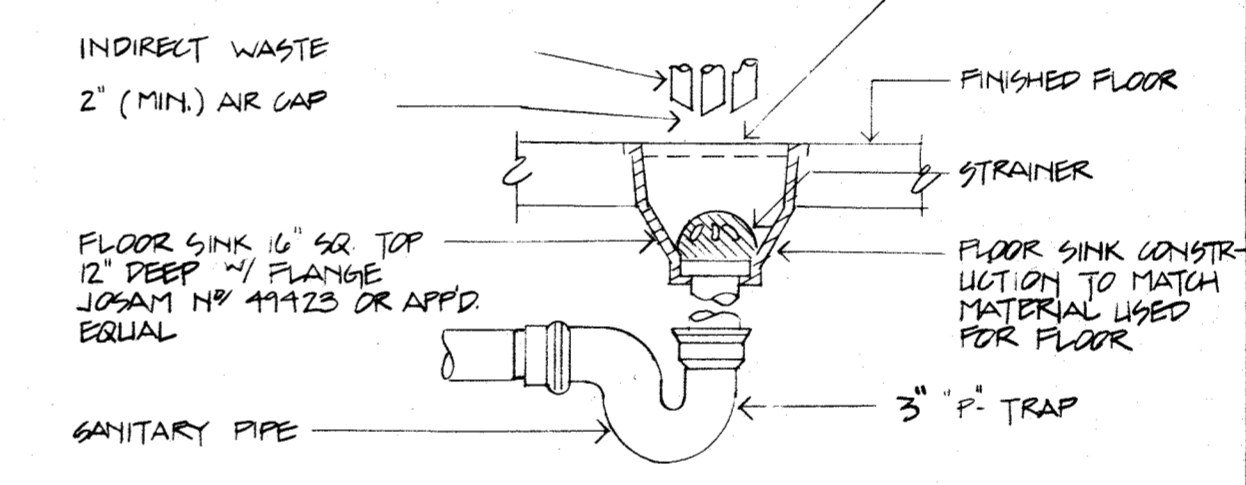
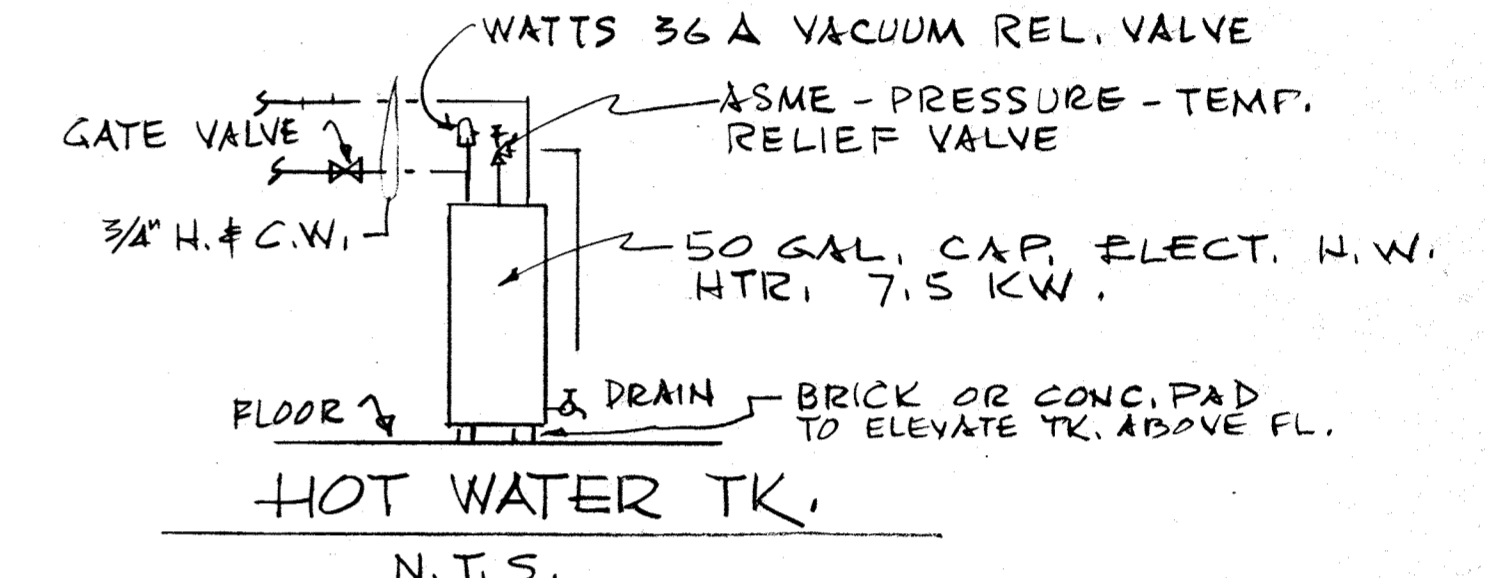
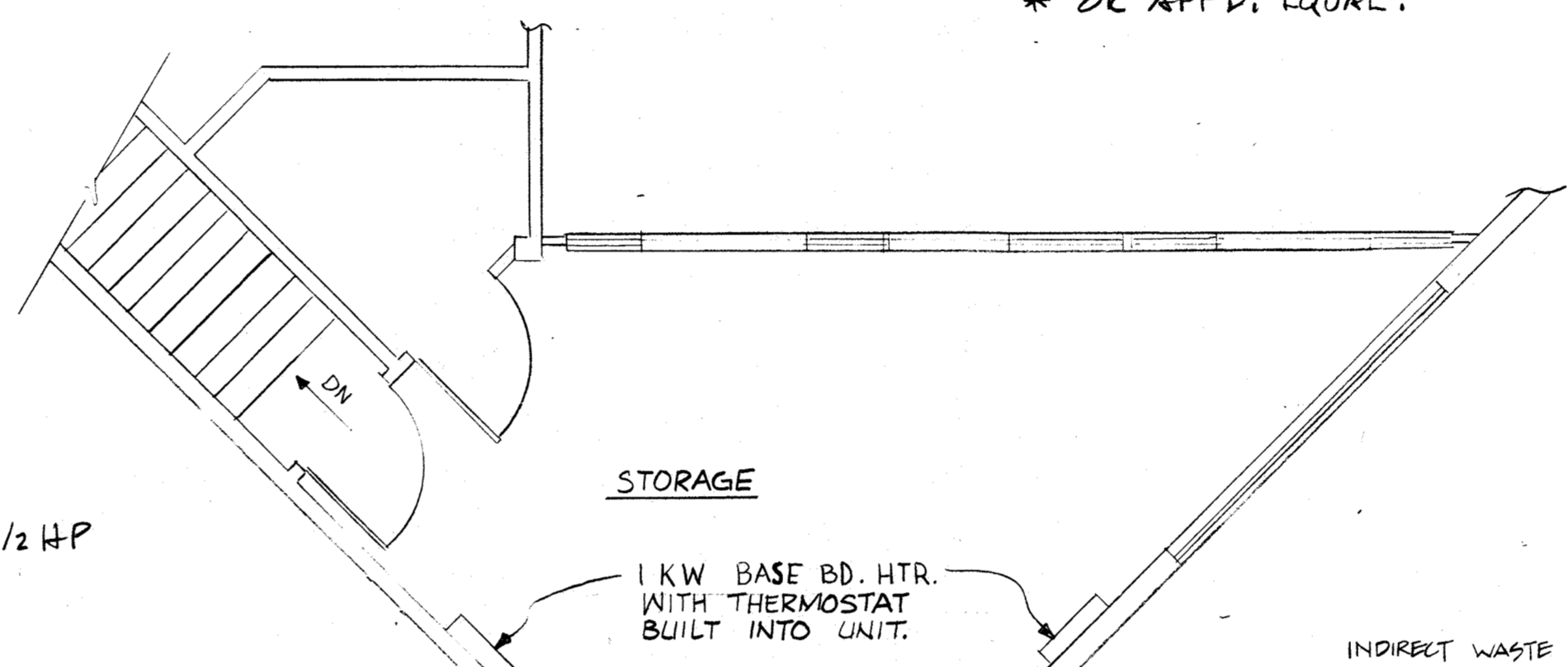


ELECT. BASEBOARD RADIATION IN STORAGE RM. & POT SINK RM. SHALL BE BERKO CAT NO. MCB 4-1020A MTD 2 3/4" ABOVE FIN. FL. & RATED 1000 W. PER 4'-0" LGTH. SUITABLE FOR 208V. 3Ø SERVICE. EACH UNIT SHALL BE COMPLETE W/ A BUILT-IN THERMOSTAT NO. T-2.

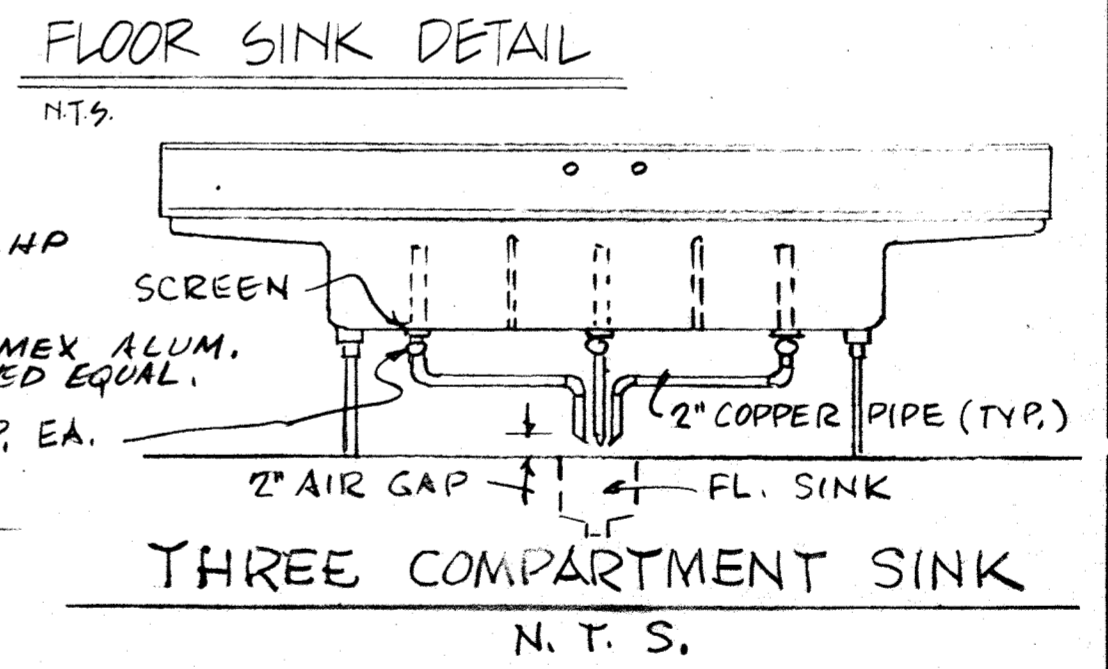
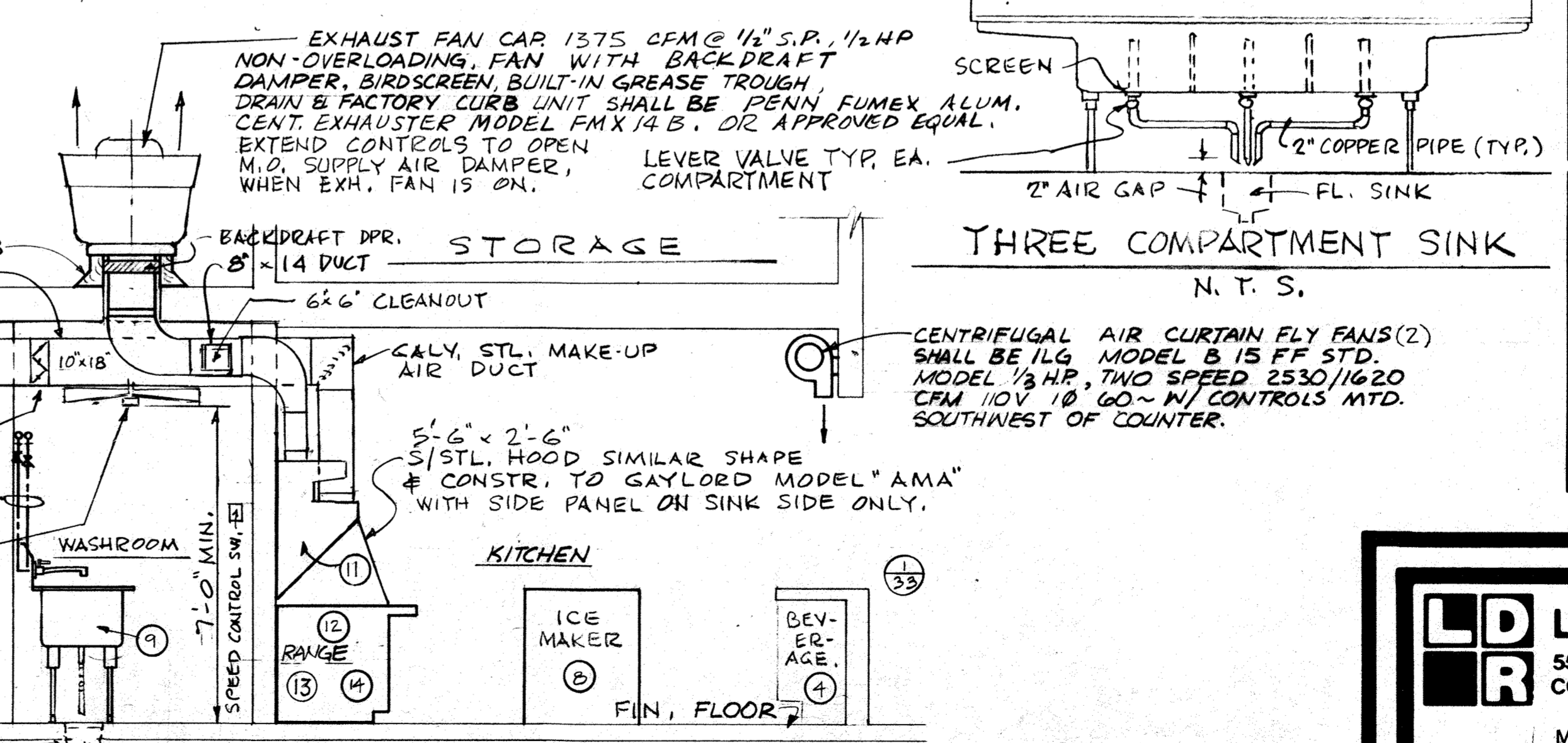
ELEC. FORCED FAN WALL HTR. 4 KW BERKO NO. FFR-4020A RECESSED W/ BUILT-IN THERMOSTAT. 208 V. 3Ø



NOTE: ALL EXPOSED PLUMBING LINES, HOT & COLD WATER IN KITCHEN AREA MUST BE SPACED 3/4 INCH OFF WALLS, 6 INCHES ABOVE FLOORS. ALL OPENINGS TO THE OUTSIDE OF FACILITY MUST BE EFFECTIVELY VERMIN PROOF.



SECTION "A-A"



Add Alternate #1 entire sheet

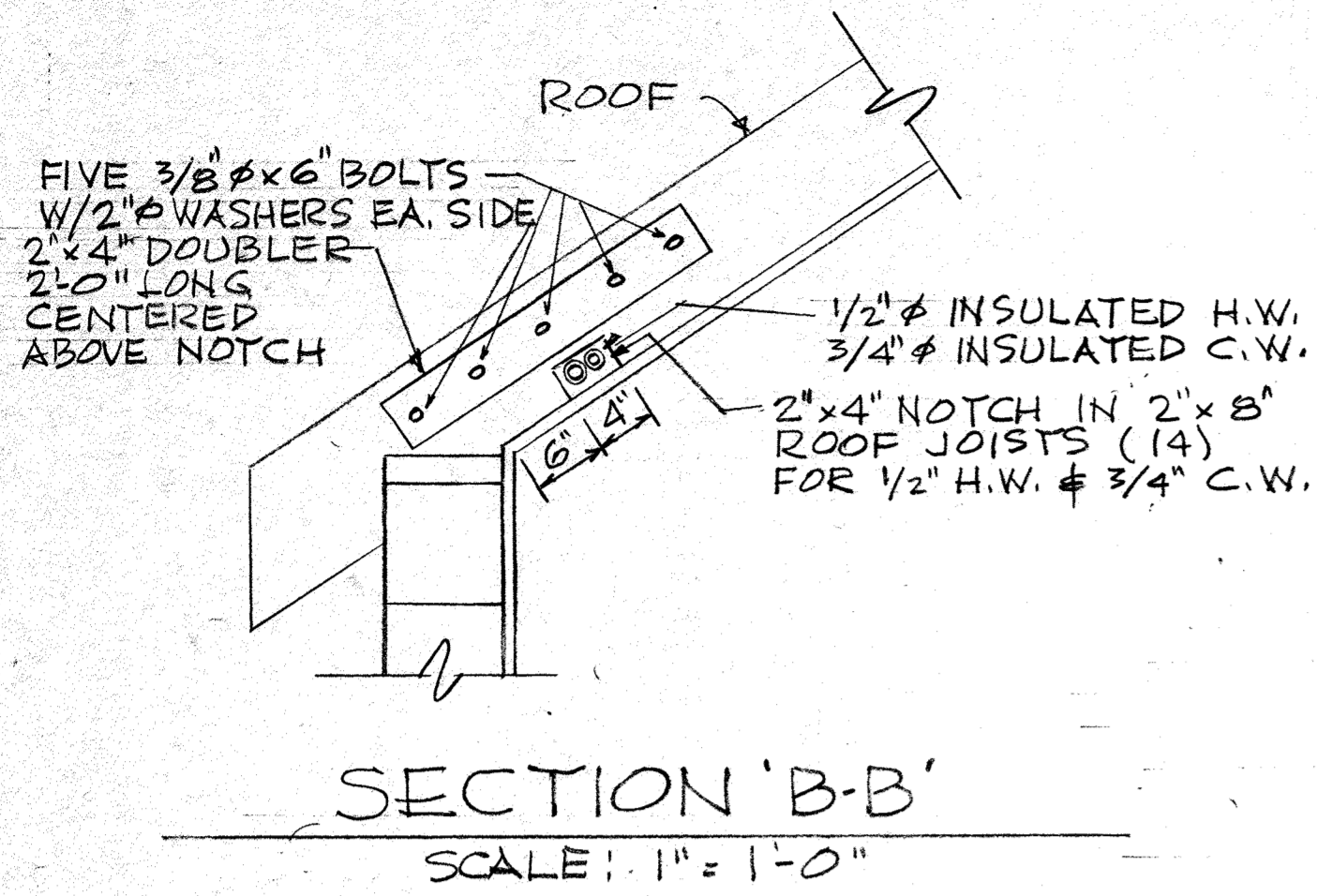
APPROVED: For Public Water, Drainage Systems and Storm	DATE
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	8-28-84
<i>Shayf. Nummy</i> DIRECTOR	
APPROVED: For Public Water and Sewerage Systems Private	DATE
HOWARD COUNTY HEALTH DEPARTMENT	10-28-83
<i>William S. Reay</i> CHIEF, BUREAU OF ENGINEERING	
APPROVED: For Public Health Officer	DATE
HOWARD COUNTY HEALTH DEPARTMENT	1-25-84
<i>Joseph B. Collins</i> COUNTY HEALTH OFFICER	
APPROVED: Howard County Office of Planning and Zoning	DATE
HOWARD COUNTY OFFICE OF PLANNING AND ZONING	8-29-84
<i>Donald A. Smith</i> PLANNING DIRECTOR	
APPROVED: Division of Land Development and Zoning Administration	DATE
HOWARD COUNTY, MD., DEPT. OF PUBLIC WORKS FOR THE DEPT. OF REC. AND PARKS, 3430 COURTHOUSE DRIVE, ELICOTT CITY	
Elect. Dist. No. 2, Ho. Co. Tax Map No. 30	
Law Docket A-3652	
Liber 781 Folio 592, Parcel 345, 63.6 Ac.	
Liber 333 Folio 62, Parcel (Partial) 10, 42.9 Ac	
Liber 507 Folio 437, Parcel 278, 61.45 Ac.	
Adjacent Property Owners:	
Legg, M. R. 875 471 1.01 126	
Zaiser, W. J. 259 105 7.08 92	
Saas, J. A. 274 299 2.36 93	
Taury, J. P. 611 589 1.23 149	
	38: 604 1.16 94

LD LAND DESIGN / RESEARCH, INC.
5560 STERRETT PLACE, SUITE 300
COLUMBIA, MARYLAND

MECHANICAL - KITCHEN PLAN, DETAILS, SECTIONS & SCHEDULE

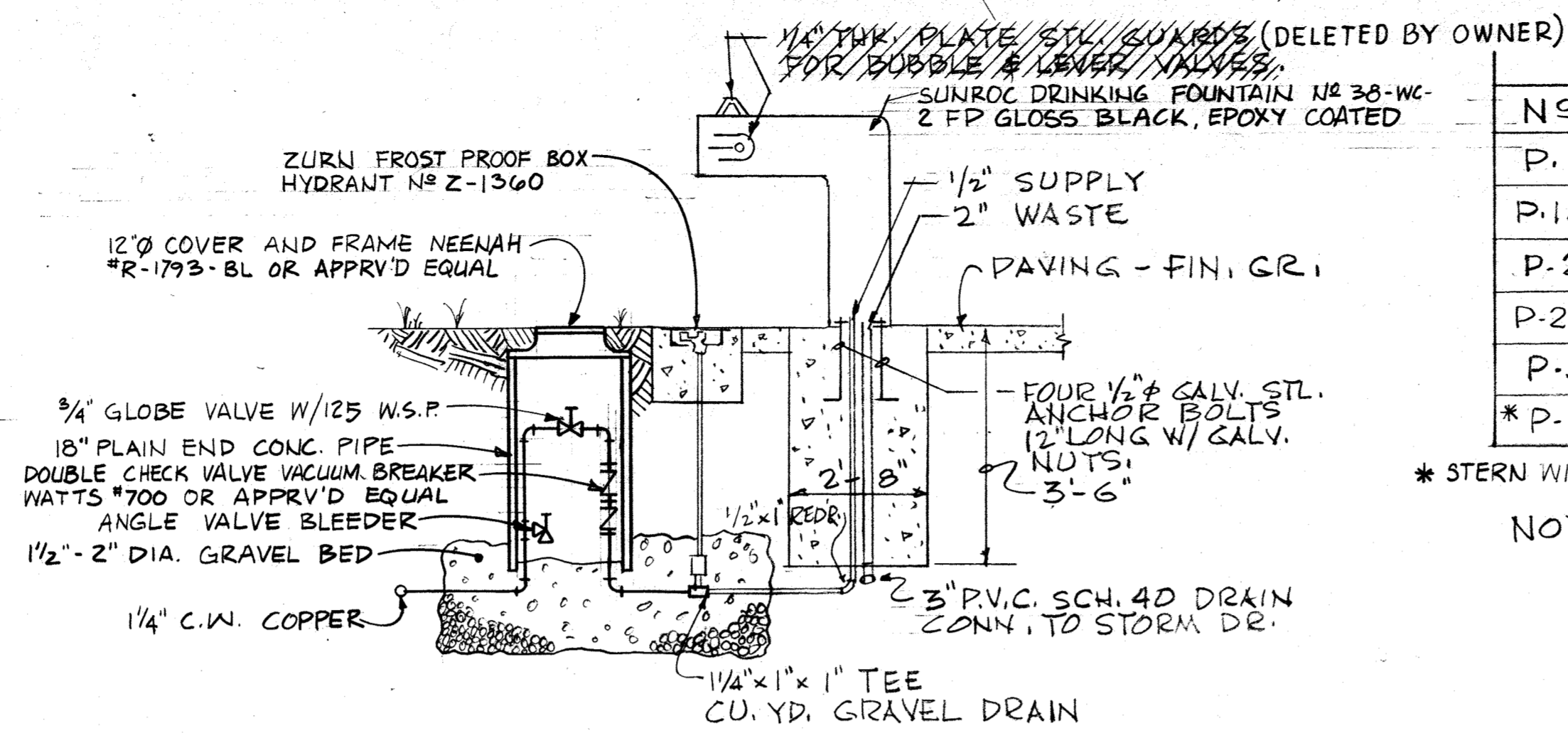
CENTENNIAL PARK
PHASE FOUR - LAKESHORE SOUTH AREA

DATE	6-1-83	REVISIONS:	SHEET NO.
SCALE	AS NOTED		32
DRAWN	D.W.		OF 81
CHECKED	10-21-83		



SECTION 'B-B'

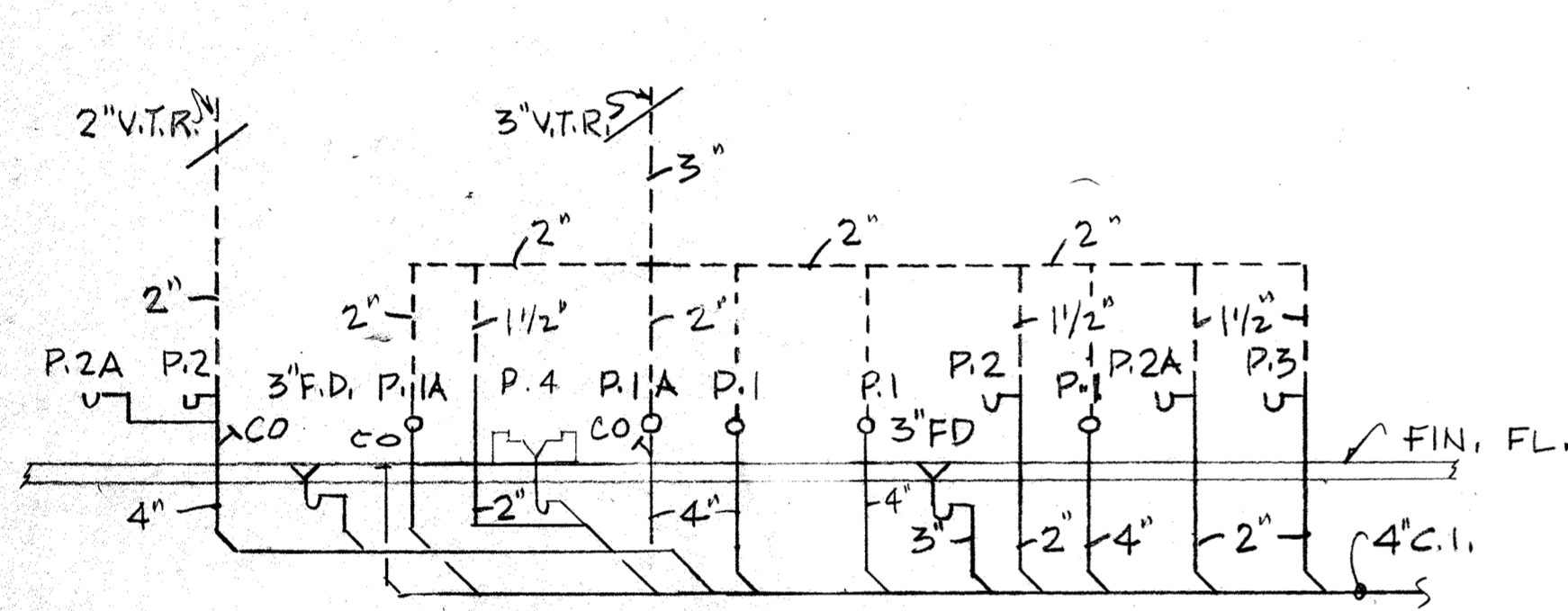
SCALE: 1" = 1'-0"



(A) DRINKING FOUNTAIN
N.T.S.

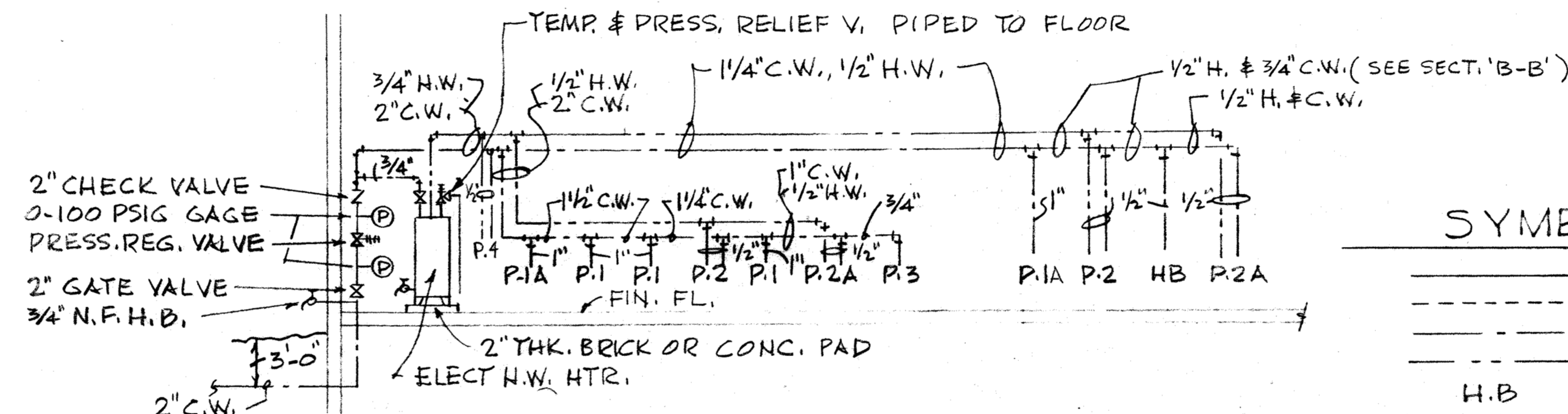
PLUMBING FIXTURE SCHEDULE						
NO	FIXTURE	WASTE	VENT	C.W.	H.W.	REMARKS
P-1	WATER CLOSET	4"	2"	1"	-	WALL HUNG
P-1A	WATER CLOSET	4"	2"	1"	-	SAME AS P-1, EXCEPT MOUNTED AT 20" FROM FLOOR TO TOP OF SEAT.
P-2	LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	WALL MTD.
P-2A	LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	WHEELCHAIR TYPE
P-3	URINAL	2"	1 1/2"	3/4"	-	WALL MTD.
*P-4	SERVICE SINK	3"	1 1/2"	1/2"	1/2"	FLOOR MTD. RECEPTOR

* STERN WILLIAMS 24" x 24" x 12" WITHOUT STAINLESS STEEL CAP
NOTE: ALL FIXTURES SHALL BE 'WATER SAVING TYPE'



SANITARY-SCHEMATIC

N.T.S.

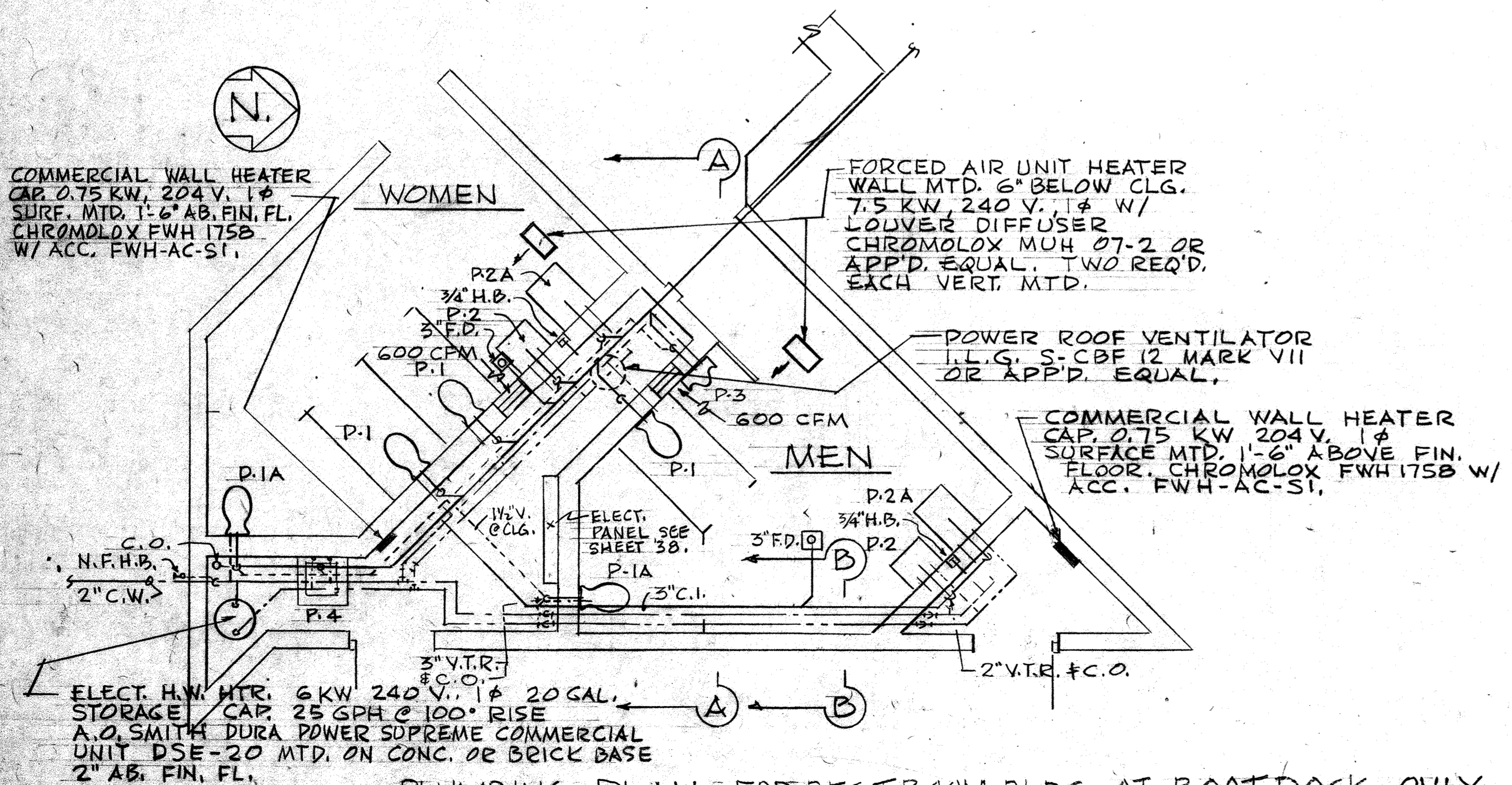


HOT & COLD WATER SCHEMATIC

N.T.S.

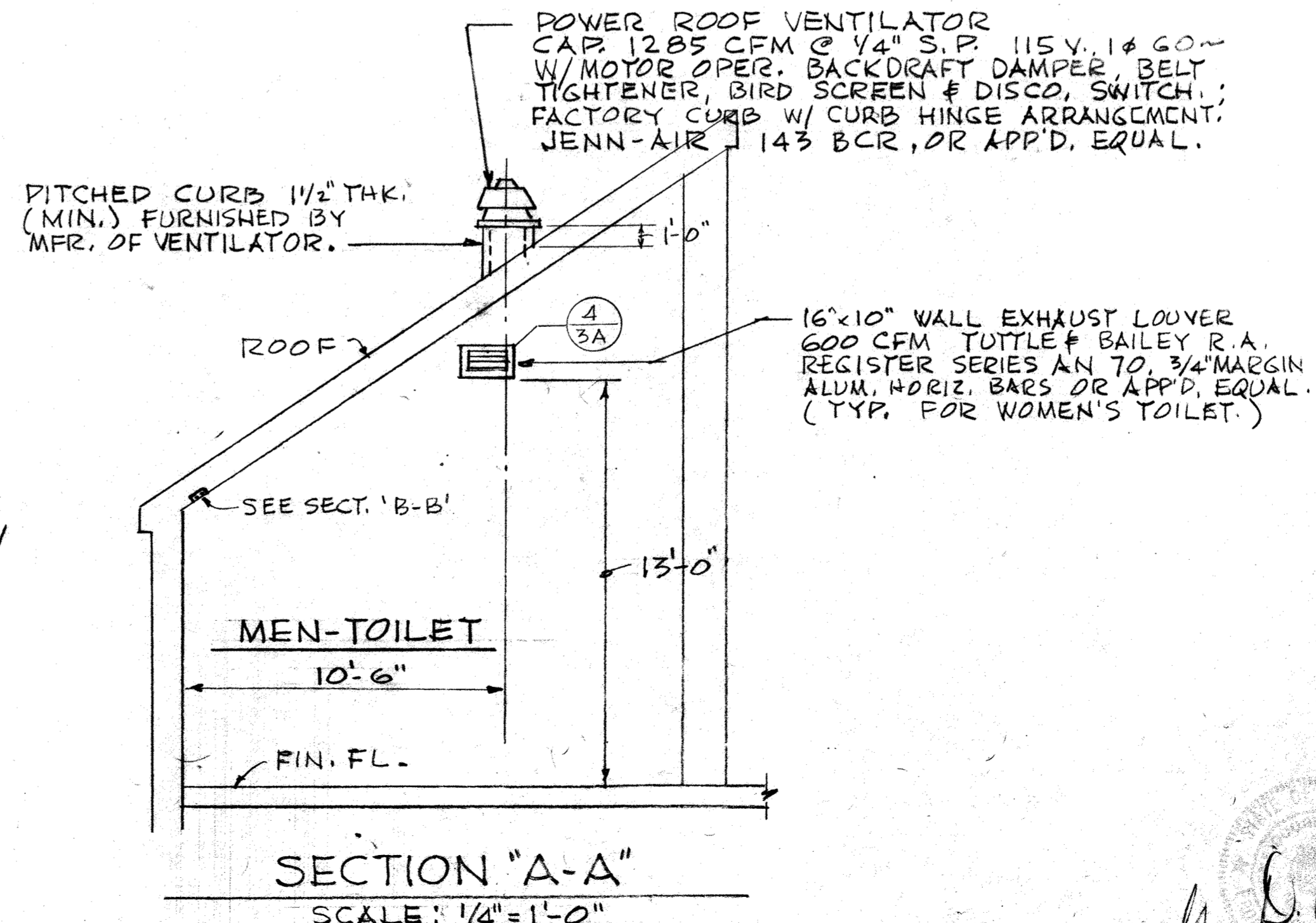
SYMBOLS

- SOIL OR WASTE
- - - - VENT
- - - - COLD WATER
- - - - HOT WATER
- H.B. HOSE BIBB
- N.F.H.B. NON FREEZE H.B.
- C.I. CAST IRON
- V.T.R. VENT THRU ROOF
- V. VENT



PLUMBING PLAN - FOR RESTROOM BLDG. AT BOAT DOCK ONLY

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



SECTION 'A-A'

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

Add Alternate #1 entire sheet

APPROVED: For Public Water, and Storm Drainage Systems and Roads
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Director: *Shayne F. Newman* 8-28-84
 DATE

APPROVED: For Public Water and Private Sewerage Systems
 HOWARD COUNTY HEALTH DEPARTMENT
 County Health Officer: *John P. Jones* 1-25-84
 DATE

APPROVED: Howard County Office of Planning and Zoning
 Planning Director: *Thomas J. Hamrick* 8-29-84
 DATE
 Chief, Division of Land Development and Zoning Administration: *Thomas J. Hamrick* 8-29-84
 DATE

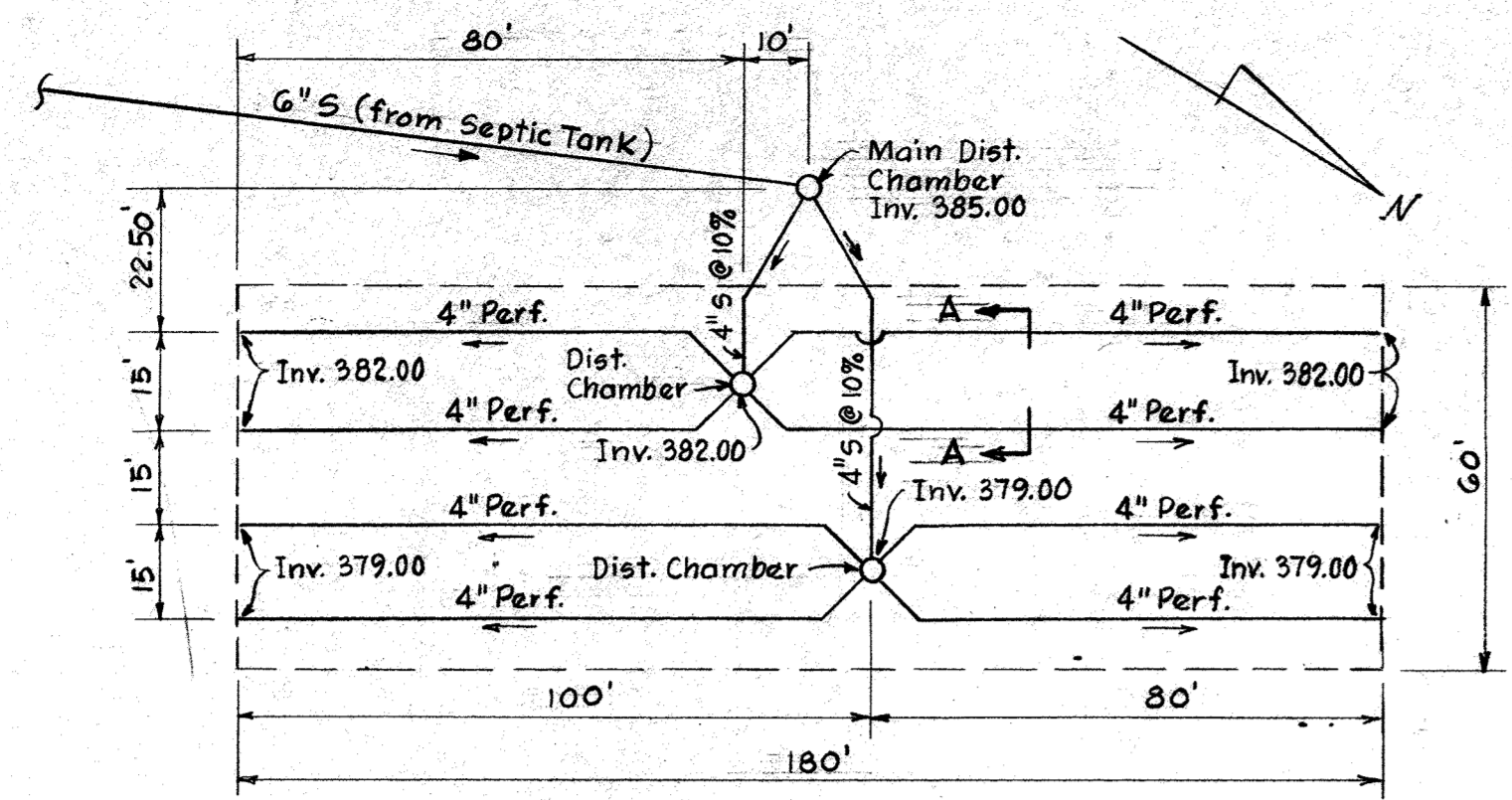
Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City
 Elect. Dist. No. 2, Ho. Co. Tax Map No. 30
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Taury, J. P.	611	589	1.23 149
	383	604	1.16 94

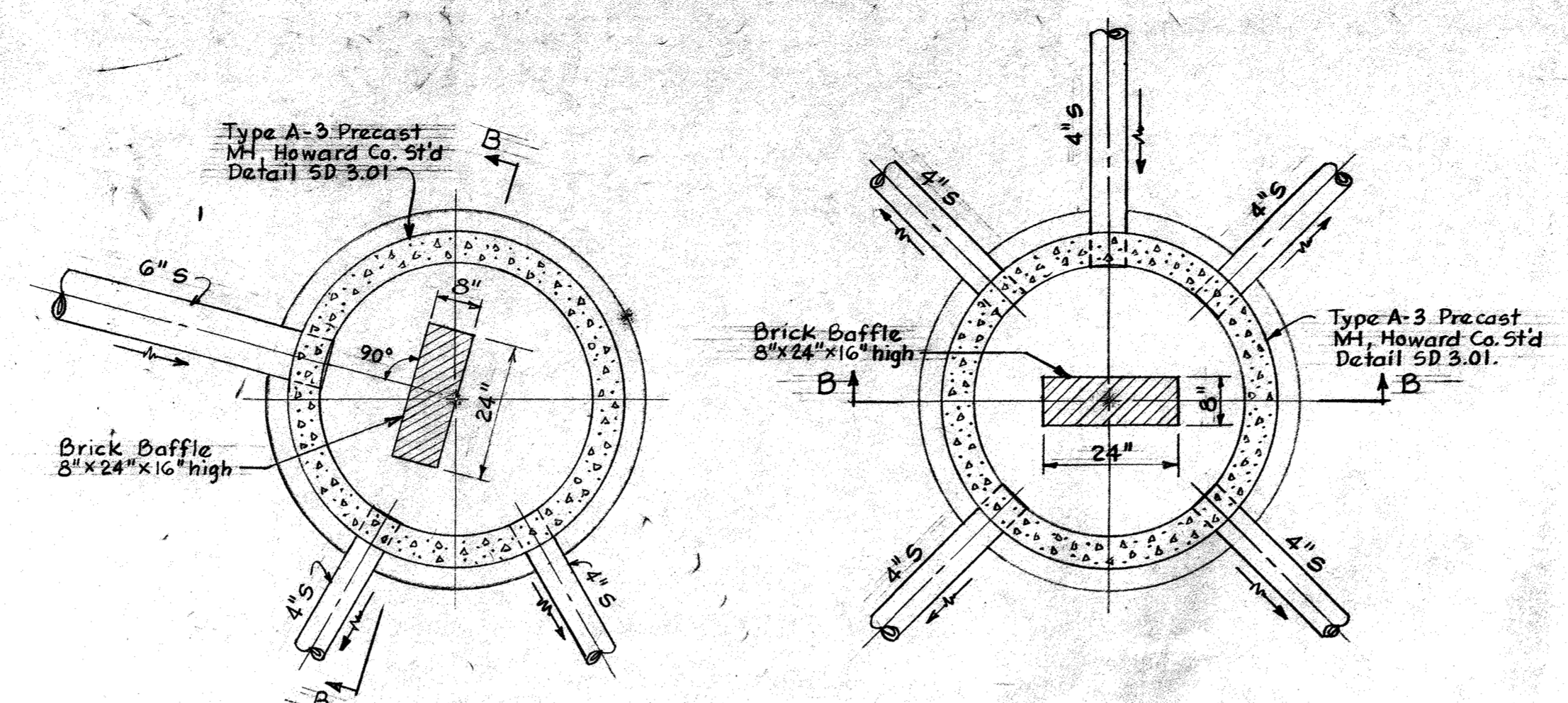
LD LAND DESIGN / RESEARCH, INC.
 5560 STERRETT PLACE, SUITE 300
 COLUMBIA, MARYLAND

MECHANICAL-PLUMBING PLAN & DETAILS
CENTENNIAL PARK
PHASE FOUR - LAKESHORE SOUTH AREA

DATE	REVISIONS	SHEET NO.
6-1-85		34
NO NOTED		OF 81
DRAWN: F.H.F.		
CHECKED: 10-21-82		

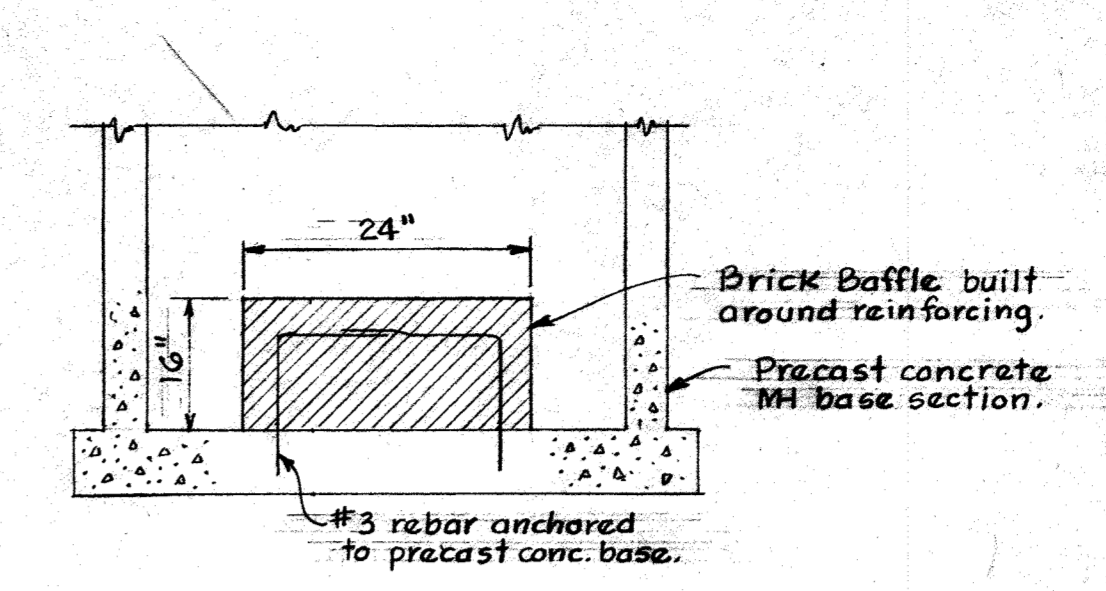


PIPING PLAN - 60' x 180' TILE FIELD
No Scale

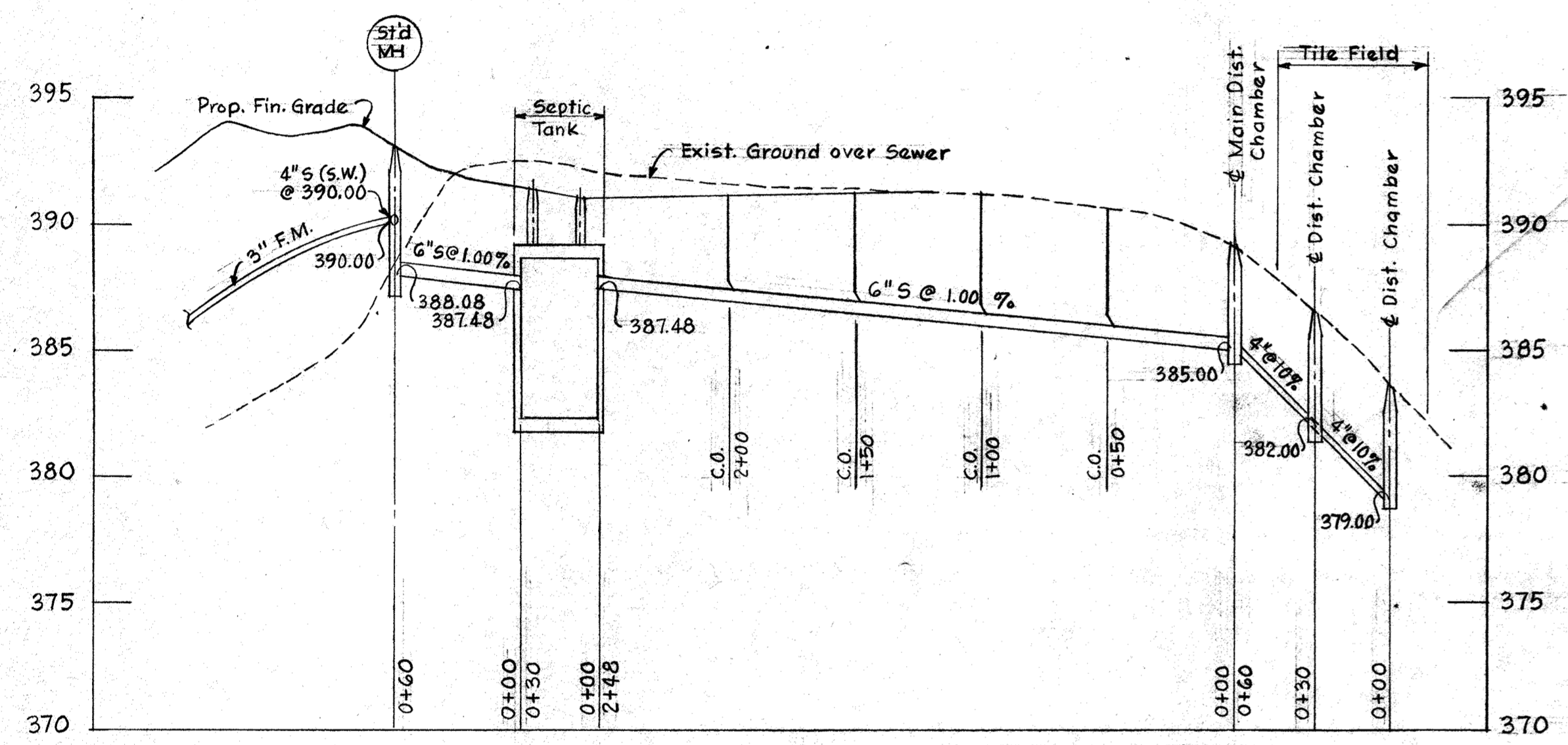


MAIN DISTRIBUTION CHAMBER PLAN AT BOTTOM
Scale: 1/2" = 1'-0"

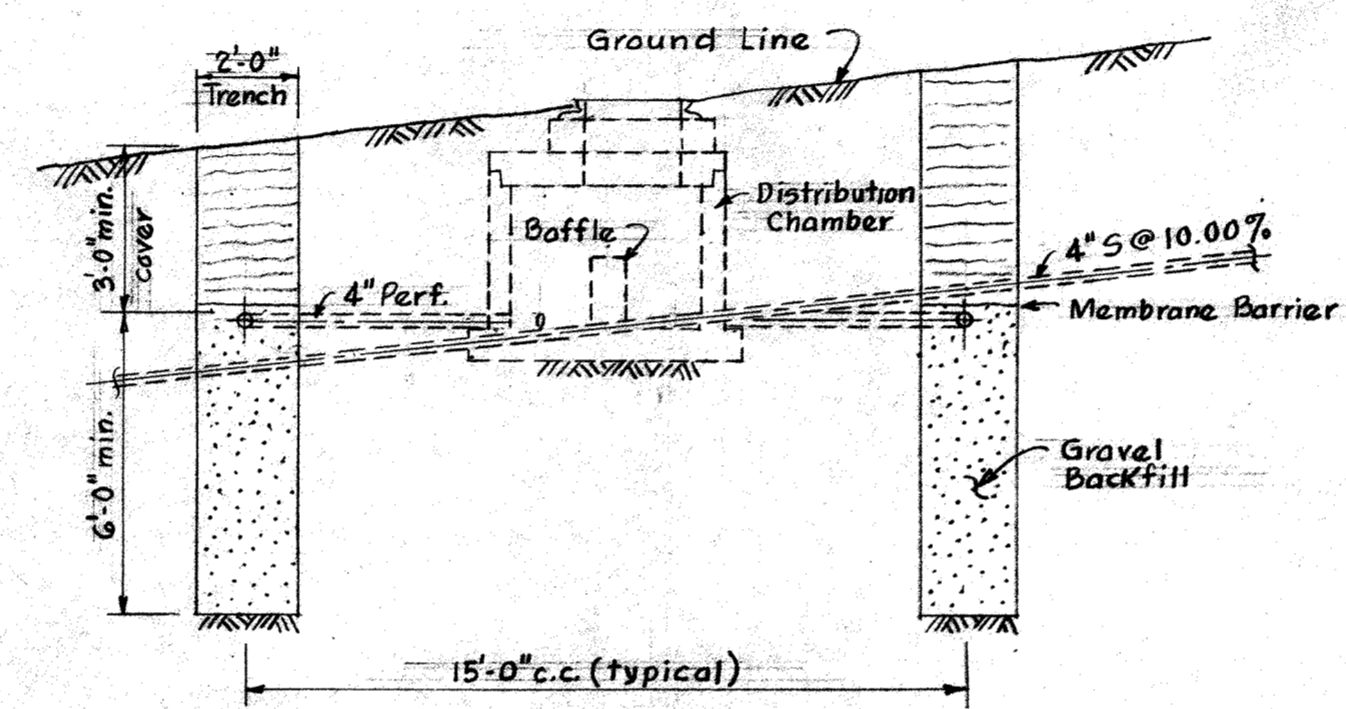
DISTRIBUTION CHAMBER PLAN AT BOTTOM
Scale: 1/2" = 1'-0"



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



PROFILE - SANITARY SEWER
Scale: Hor. 1" = 50'
Vert. 1" = 5'



SECTION A-A TRENCH DETAIL
Scale: 1/4" = 1'-0"

APPROVED: For Public Water, _____ and Storm Drainage Systems and Roads
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Joseph N. Nunn 8-28-84
DIRECTOR DATE
William S. Pugh 10-28-83
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: For Public _____ Water and _____ Private Sewerage Systems
HOWARD COUNTY HEALTH DEPARTMENT
John Boyd 1-25-84
COUNTY HEALTH OFFICER DATE

APPROVED: Howard County Office of Planning and Zoning
Thomas L. Davis 8-27-84
PLANNING DIRECTOR DATE
William S. Pugh 8-29-84
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City
Elect. Dist. No. 2, Ho. Co. Tax Map No. 30
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Zaiser, W. J.	259	105	7.08	92
Saas, J. A.	274	299	2.36	93
Taury, J. P.	611	589	1.23	149
	383	604	1.16	94

Steve D. Palto

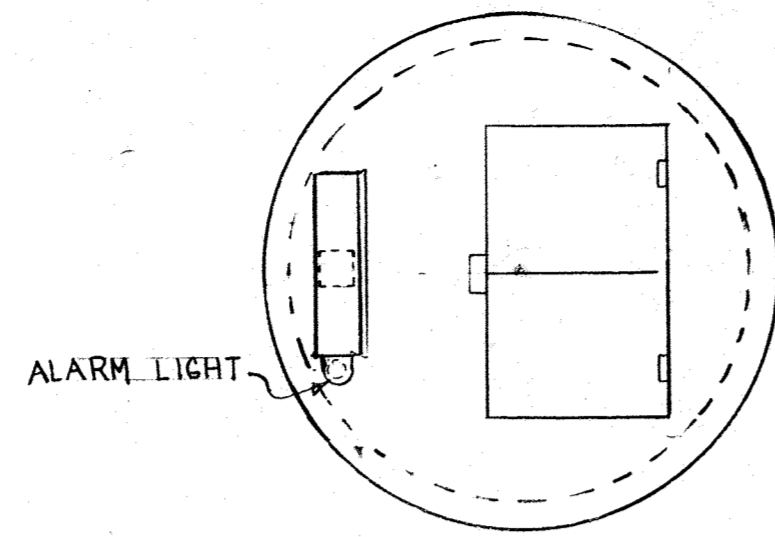
LD LAND DESIGN / RESEARCH, INC.
5560 STERRETT PLACE, SUITE 300
COLUMBIA, MARYLAND

**SANITARY SEWER PROFILE,
TILE FIELD & DETAILS
CENTENNIAL PARK
PHASE FOUR - LAKESHORE SOUTH AREA**

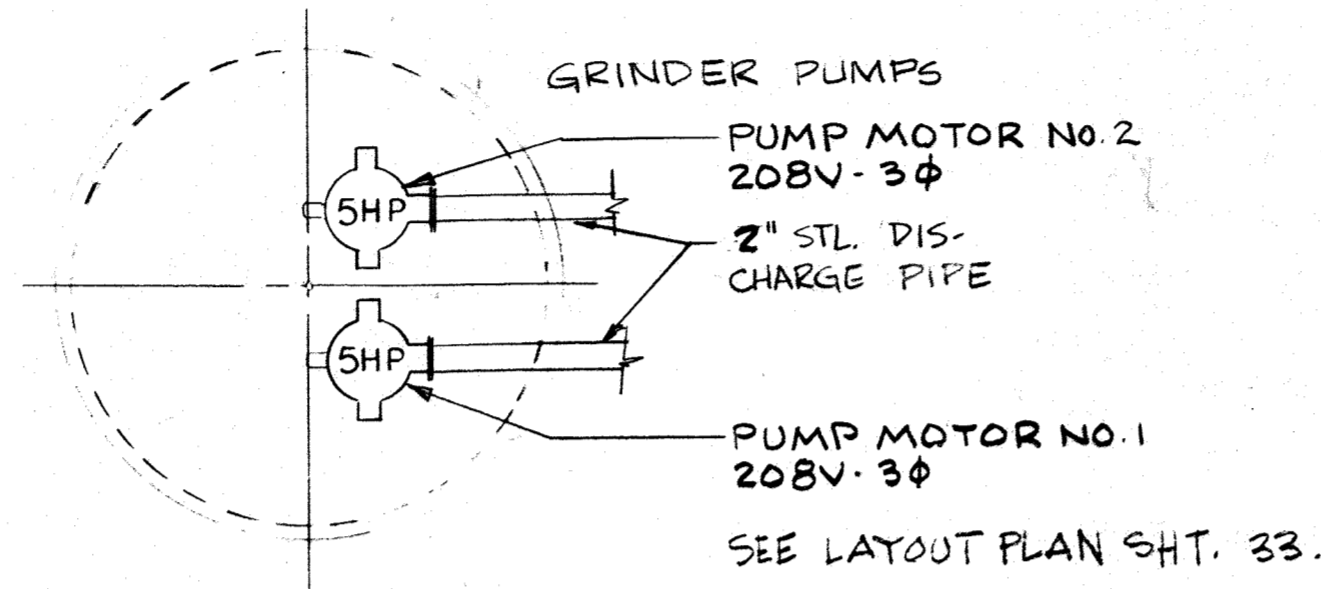
DATE	0-1-83	REVISIONS:	SHEET NO.
SCALE	AS NOTED		35
DRAWN			OF 87
CHECKED	10-21-83		

ELECT. NOTES

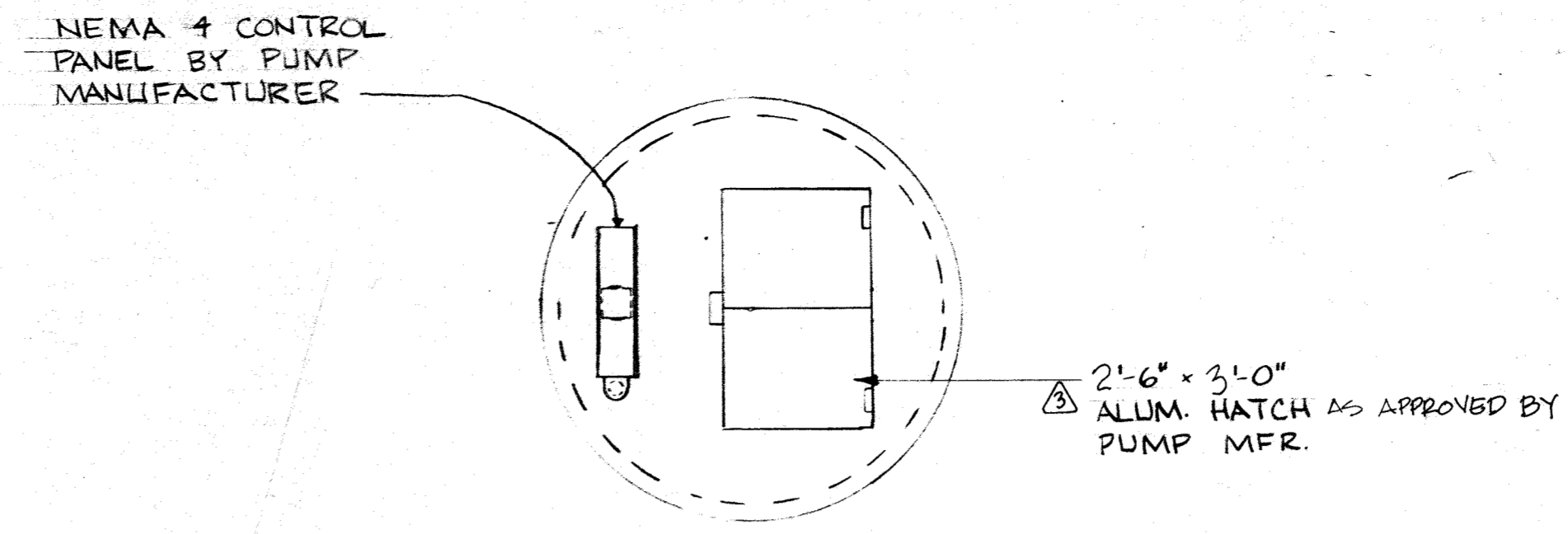
1. ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE 1978 NEC, FEDERAL SPECIFICATIONS, AND ALL OTHER CODES HAVING JURISDICTION OVER THIS PROJECT AND/OR AS DIRECTED BY THE CONTRACTING OFFICER.
2. ALL CONDUCTORS SHALL BE COPPER TYPE XHHW INSULATION. CONDUIT SCHEDULE 40 RIGID STEEL IN PUMPING STATION AND SCHEDULE 40 PVC TO SOURCE, EXCEPT FLEX STEEL CONDUIT FOR GROUNDING HATCH.
3. LOCATION OF HATCH TO BE DETERMINED BY PUMP MFR'S. PUMP REMOVAL GUIDES.



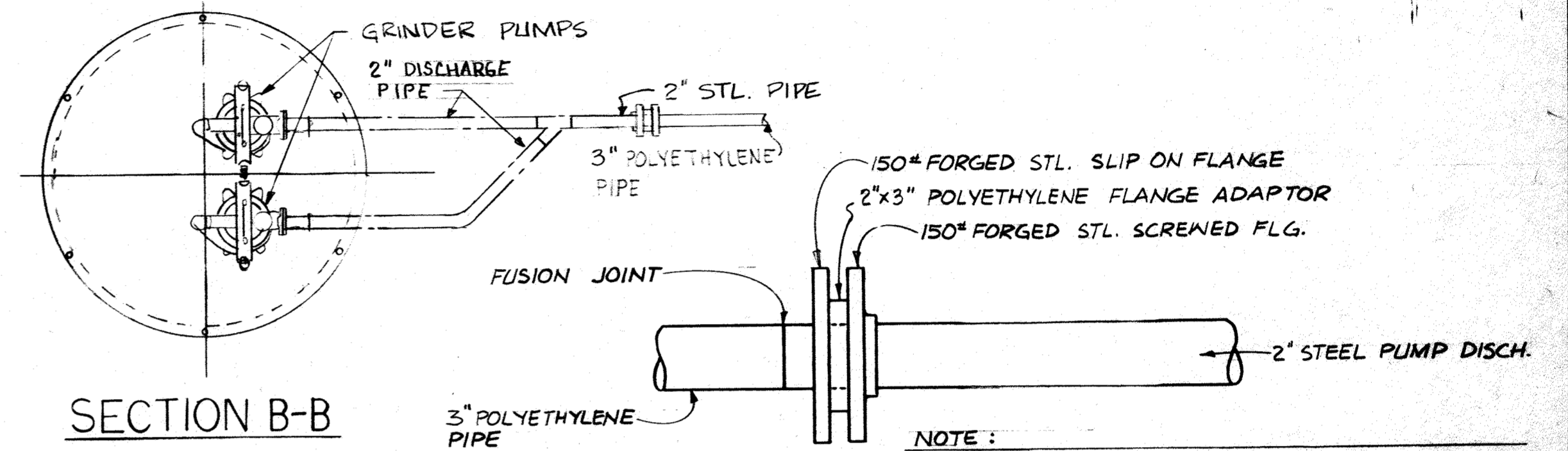
SECTION A-A



SECTION B-B



SECTION A-A

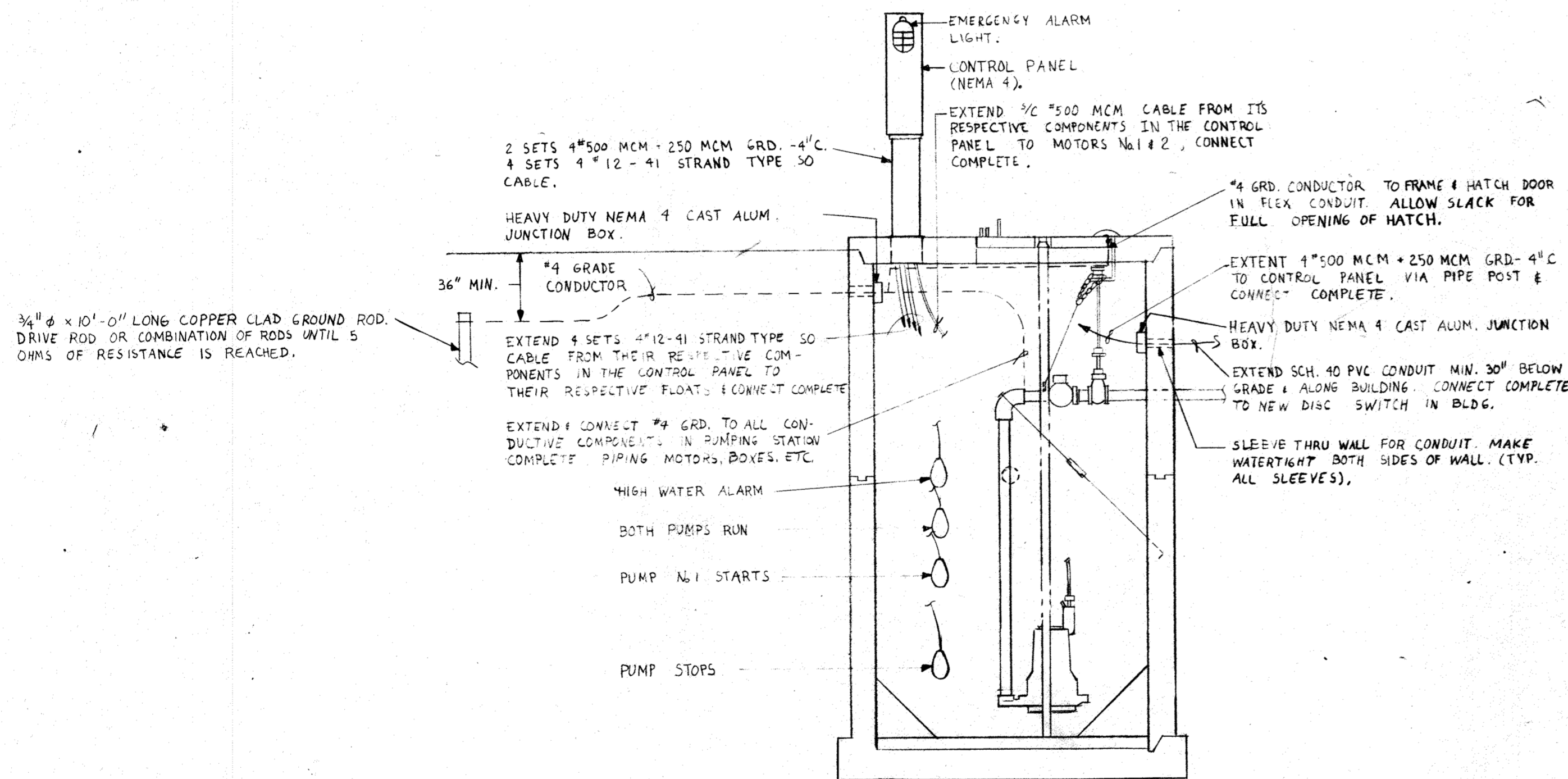


SECTION B-B

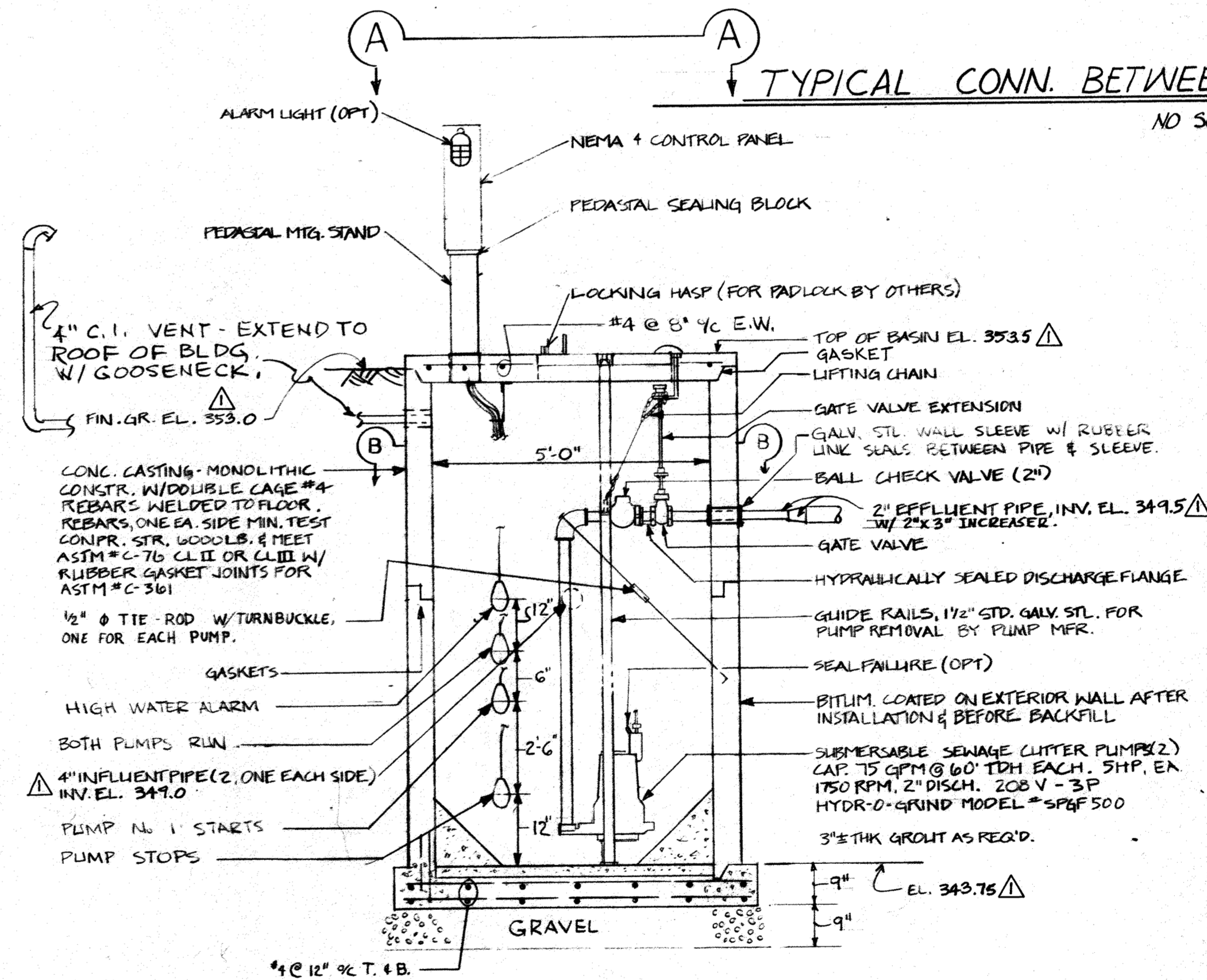
NOTE:
USE EPOXY COATING FOR ALL STEEL FITTINGS, NUTS, BOLTS ETC. IN CONTACT WITH PLASTIC. DO NOT USE COAL TAR COATINGS.

TYPICAL CONN. BETWEEN STL. & PLASTIC PIPE

NO SCALE



ELECTRICAL ELEVATION
N.T.S.



MECHANICAL ELEVATION
N.T.S.

PUMPING STATION AT
CONCESSION BLDG.

N.T.S. FOR LOCATION - SEE SHEETS 25 & 33.

Add Alternate #1 entire sheet

APPROVED: For Public Water, Drainage Systems and Storm and Storm

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Ray F. Nummy 8-28-84
DIRECTOR DATE

William E. Ray 10-29-83
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: For Public Water and Private Sewerage Systems

HOWARD COUNTY HEALTH DEPARTMENT

Joseph G. ... 1-25-84
COUNTY HEALTH OFFICER DATE

APPROVED: Howard County Office of Planning and Zoning

Thomas L. ... 8-29-84
PLANNING DIRECTOR DATE

... 8-29-84
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City

Elect. Dist. No. 2, Ho. Co. Tax Map No. 30
Law Docket A-3652
Liber 781 Folio 592, Parcel 345, 63.6 Ac.
Liber 333 Folio 62, Parcel (Partial) 10, 42.9 Ac.
Liber 507 Folio 437, Parcel 278, 61.45 Ac.

Adjacent Property Owners:

Owner	Liber	Folio	Acres	Parcel
Legg, M. R.	875	471	1.01	126
Zaiser, W. J.	259	105	7.08	92
Saas, J. A.	274	299	2.36	93
Taury, J. P.	611	589	1.23	149
	383	604	1.16	94

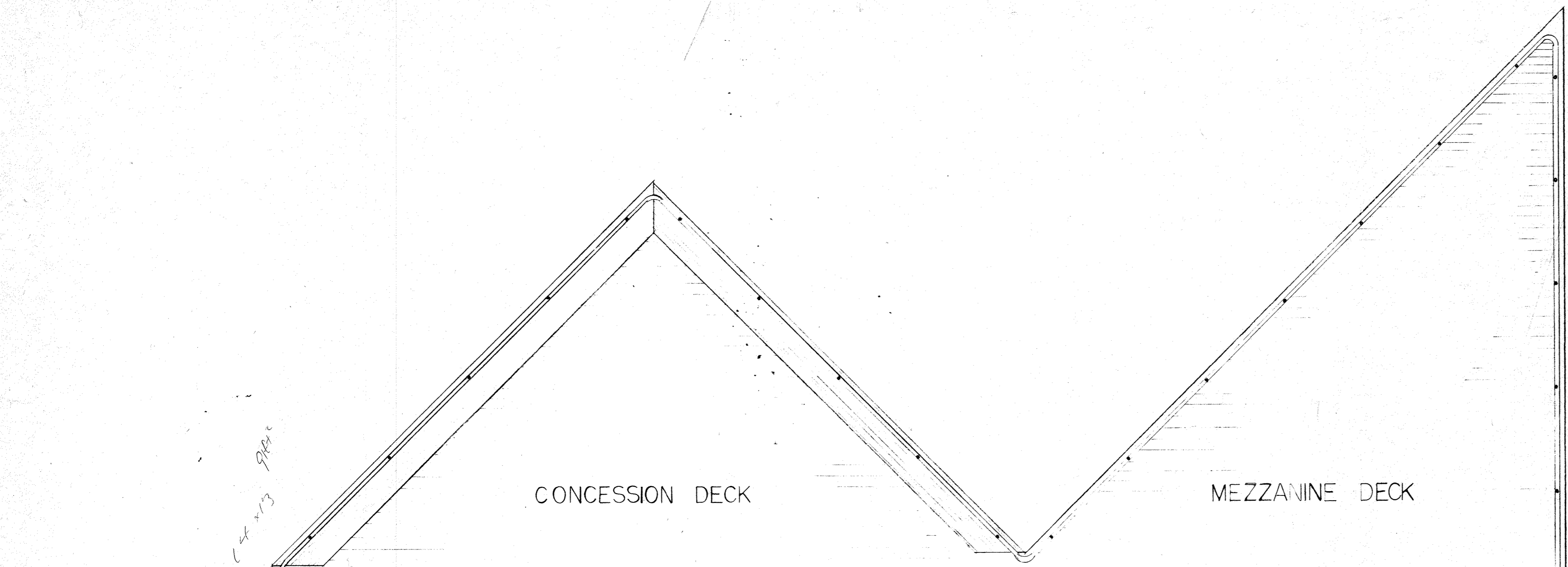
LD LAND DESIGN / RESEARCH, INC.
5560 STERRETT PLACE, SUITE 300
COLUMBIA, MARYLAND

PUMP STATION, DETAIL & SECTIONS

CENTENNIAL PARK
PHASE FOUR - LAKESHORE SOUTH AREA

DATE	6-1-83	REVISIONS:	SHEET NO.
SCALE	AS NOTED	△ 5-11-84	36
DRAWN		△ 8-20-84	OF 81
CHECKED	10-21-83		

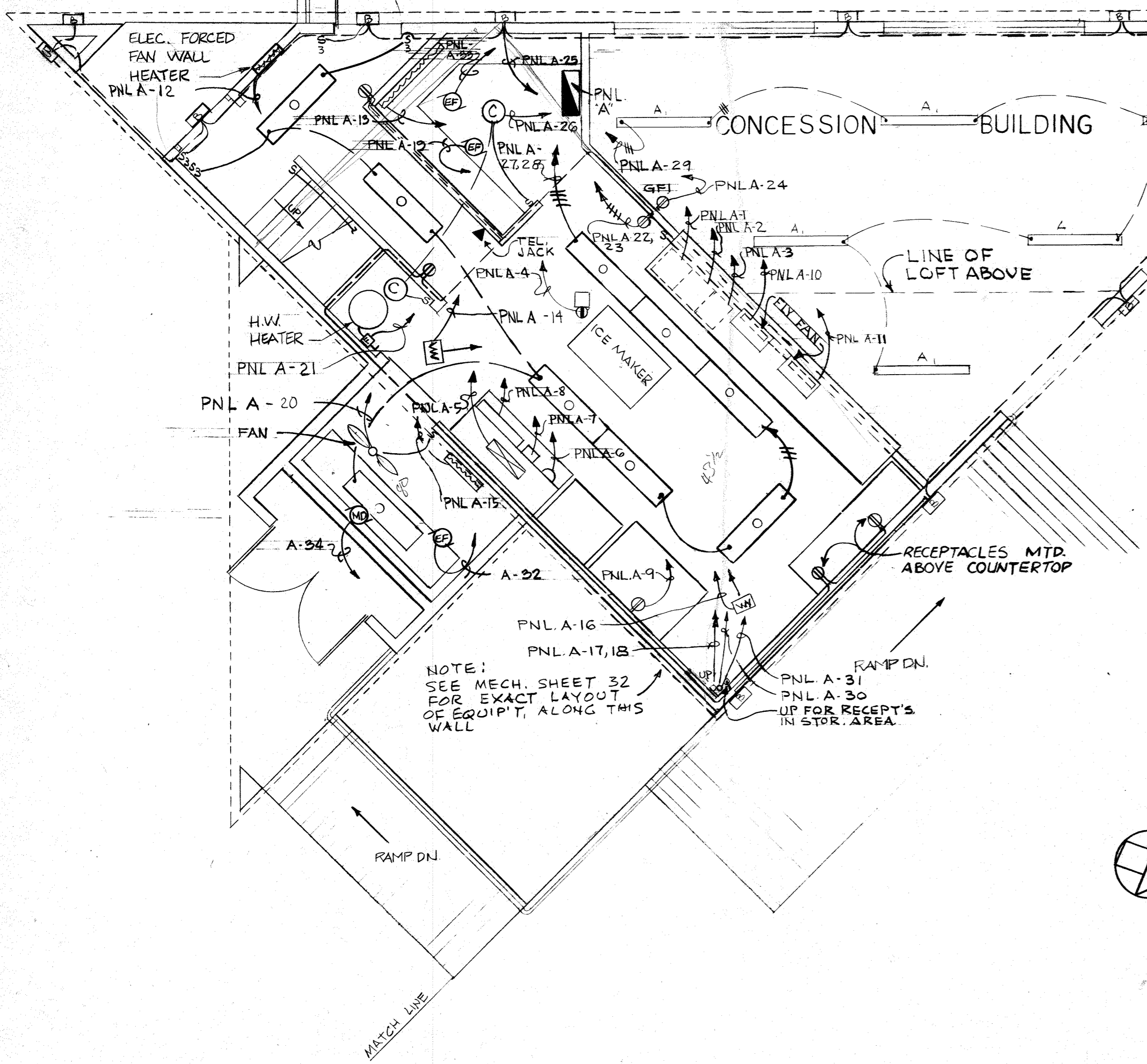
Gene D. Rabbits



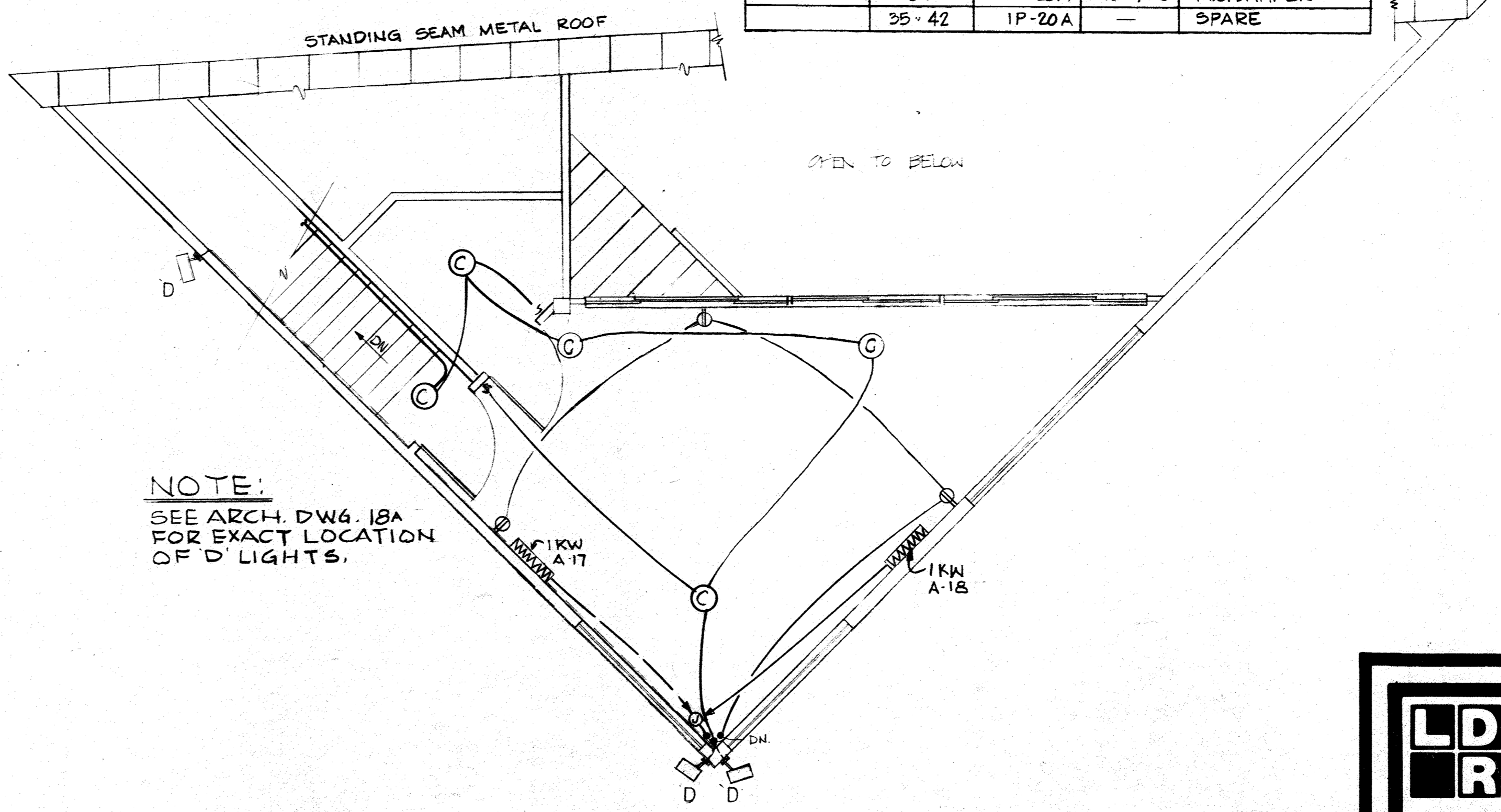
- GENERAL NOTES:
- 1) All lighting fixtures, receptacles and equipment shall be installed complete with all junction boxes, fittings, wiring, conduit, wire nuts, switches, overcurrent protection and all appurtenances as required to provide a properly functioning system in accordance with manufacturers, N.E.C. & all codes and local agencies having jurisdiction over this project and to the satisfaction of the Engineer.
 - 2) The Contractor shall coordinate all his work with the B.C. & E. Co. Howard County and the Engineer prior to starting his work.
 - 3) All wiring and conduit shall be extended and connected complete with all appurtenances.
 - 4) All exposed hardware shall be vandal-proof stainless steel and a min. of two coats shall be provided to Howard County for each type of vandal hardware used in the project.

PANELBOARD "A" SCHEDULE

120/208 - 3φ - 4W		225 MCB	
1	2P-40A	# 8-1" C	SOFT SERVE UNIT
2	1P-20A	# 12-3/4" C	BEV DISP
3	1P-20A	# 12-3/4" C	CARBONATER
4	1P-20A	# 12-3/4" C	RECEPT. ICE MAKER
5	1P-30A	# 10-3/4" C	EXH HOOD
6	2P-30A	# 10-3/4" C	HOT PLATE
7	2P-40A	# 8-3/4" C	FRYER
8	3P-70A	# 4-1" C	GRIDDLE
9	1P-20A	# 12-3/4" C	PERFRIG
10-11	1P-20A	# 12-3/4" C	FLY FANS
12-18	2P-20A	# 10-3/4" C	HTRS.
19	1P-20A	# 12-3/4" C	EXH FAN
20	1P-20A	# 10-3/4" C	CIR. FAN
21	2P-40A	# 8-1" C	HW. HTR
22-23	1P-20A	# 12-3/4" C	RECEPT'S
24	1P-20A	# 10-3/4" C	RECEPT.-GFI
25	1P-20A	# 12-3/4" C	OUTSIDE LTGS (8)
26-29	1P-20A	# 12-3/4" C	KIT, EATING AREA
30-31	1P-20A	# 12-3/4" C	STOR. OUTSIDE LTGS
32	3P-20A	# 10-3/4" C	EXH. FAN
33	1P-20A	# 12-3/4" C	EXH. FAN
34	1P-20A	# 12-3/4" C	M.O. DAMPER
35-42	1P-20A		SPARE



GROUND FLOOR PLAN - CONCESSION BUILDING
SCALE = 1/4" = 1'-0"



SECOND FLOOR PLAN - CONCESSION BUILDING
SCALE = 1/4" = 1'-0"

Add Alternate # 1 entire sheet

APPROVED: For Public Water and Storm Drainage Systems and Roads
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Joseph E. Nummy 8-28-84
 DIRECTOR DATE

APPROVED: For Public Water and Private Sewerage Systems
 HOWARD COUNTY HEALTH DEPARTMENT
Jayman Paulus 1-27-84
 COUNTY HEALTH OFFICER DATE

APPROVED: Howard County Office of Planning and Zoning
Thomas J. Hanif 8-29-84
 PLANNING DIRECTOR DATE

CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION
 DATE 8-29-84

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City, Elect. Dist. No. 2, Ho. Co. Tax Map No. 30 Law Docket A-3652
 Liber 781 Folio 592, Parcel 345, 63.6 Ac.
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	383	604	1.16	94

LD R LAND DESIGN / RESEARCH, INC.
 5560 STERRETT PLACE, SUITE 300
 COLUMBIA, MARYLAND

ELECTRICAL-CONCESSION BLDG. SCHEDULE & NOTES
CENTENNIAL PARK
PHASE FOUR - LAKESHORE SOUTH AREA

DATE	6-1-83	REVISIONS:	SHEET NO.
SCALE	1/4" = 1'-0"		37
DRAWN	R.K.		OF 81
CHECKED	10-21-83		

SDP-84-165

SYMBOL LIST

- S SINGLE POLE SWITCH 20A, 120 VAC. MOUNT BOTTOM 4'-0" A.F.F. ARROW HART CO. CAT. #1991-1 OR APPROVED EQUAL.
- JUNCTION BOX NEMA 4 WITH WATERTIGHT PENTAGONAL BOLTS. (SIZE PER N.E.C.)
- DUPLEX GROUND - FAULT INDICATING RECEPTACLE 15A 125V WITH WEATHERPROOF HINGED ENCLOSURE MTD. IN BRONZE VANDAL PROOF BOX. MOUNT BOTTOM 1'-6" A.F.F. P & S CO. CAT. # 1591 - WP SEE RECEPTACLE DETAIL THIS SHEET.
- CONDUIT RUN CONCEALED ABOVE CEILING AND/OR IN WALLS SLASH LINES INDICATE NUMBER OF CONDUCTORS.
- HOMERUN RACEWAY TO PANEL. NUMBER OF ARROWS INDICATES NUMBER OF CONDUCTORS.
- A.F.F. ABOVE FINISH FLOOR.
- Conduit run Exposed along ceiling and/or walls at ceiling. Slash lines indicate number of conductors.
- PANEL - E 120/240-1Ø-3W-60Hz-SPLIT BUS SURFACE MTD.
- EMERGENCY LIGHT - HOLOPHANE CO. CAT. #M-12-2-4413 WITH 2-35 WATT SEALED BEAM HEADS. 120V WALL MOUNTED 8'-0" A.F.F.
- MOTOR FINAL CONNECTION WITH FLEXIBLE CONDUIT.
- ELECT. HOT WATER HEATER 6KW 240V FINAL CONNECTION WITH FLEX CONDUIT.
- NEW DISCONNECT SWITCH NEMA 3R 250V-5n SIZE AS SHOWN FUSING PER N.E.C.
- Electric Heating Units. Provide required overcurrent fusing and disconnect switch (each unit).
- 12x12x12 Cast iron handbox with vandal-proof screws - Burndy W.P. Splice kits.
- Single pole ILC-A-Tronic solid state motor speed controller, dial for speed control with 115V on/off. ILC Industries, Inc.
- High impact vandal-proof light fixture, polycarbonate lens w/2-20W incandescent/fluorescent warm white lamps. Ceiling mounted. Color - Bronze, Lightolier Co. Cat. # YD15-2202 or an approved equal.
- High impact vandal-proof light fixture, polycarbonate lens, w/2-40W incandescent/fluorescent warm white lamps, ceiling mounted. Color - Bronze, Lightolier Co. Cat. # YD15-4202 or an approved equal.
- Wall mounted light fixture, Moldcast Co. Cat. #MDL-1, M3221 for use with a 50 W H.P.S. lamp. Fixture to a recess mounted @ 7'-0" ± A.F.F.
- Abolite RLM Standard Dome-One piece socket fixture Cat. #RPL50 w/1-150W Quartz incandescent lamp 120V. Mounting shall be pendant type 8'-0" A.F.F.
- 1'x4' All-Brize Styrene prismatic flour. lgt. Cat. No. EZ400FP 2-40W lamps ceiling mtd.
- 2'x4' All-Brize Styrene prismatic flour. lgt. Fixture Cat. No. STA40FP 4-40W lamps e/g. mtd.
- Weatherproof fully adj. vandalproof, cast aluminum cylinder with cast guard and inner polycarbonate lens. 175 Watt metal halide. Exact mtd. as directed by the Arch., Prescolite, Lightolier, or approved equal.

3"x6"-6" CAST BRONZE BOX W/ GASKETED COVER NEMA 4 UL LISTED. MOUNTING LUGS & SLIP HOLES SPRING CITY MFG. CO. CAT NO. ER 080606 OR APPROVED EQUAL

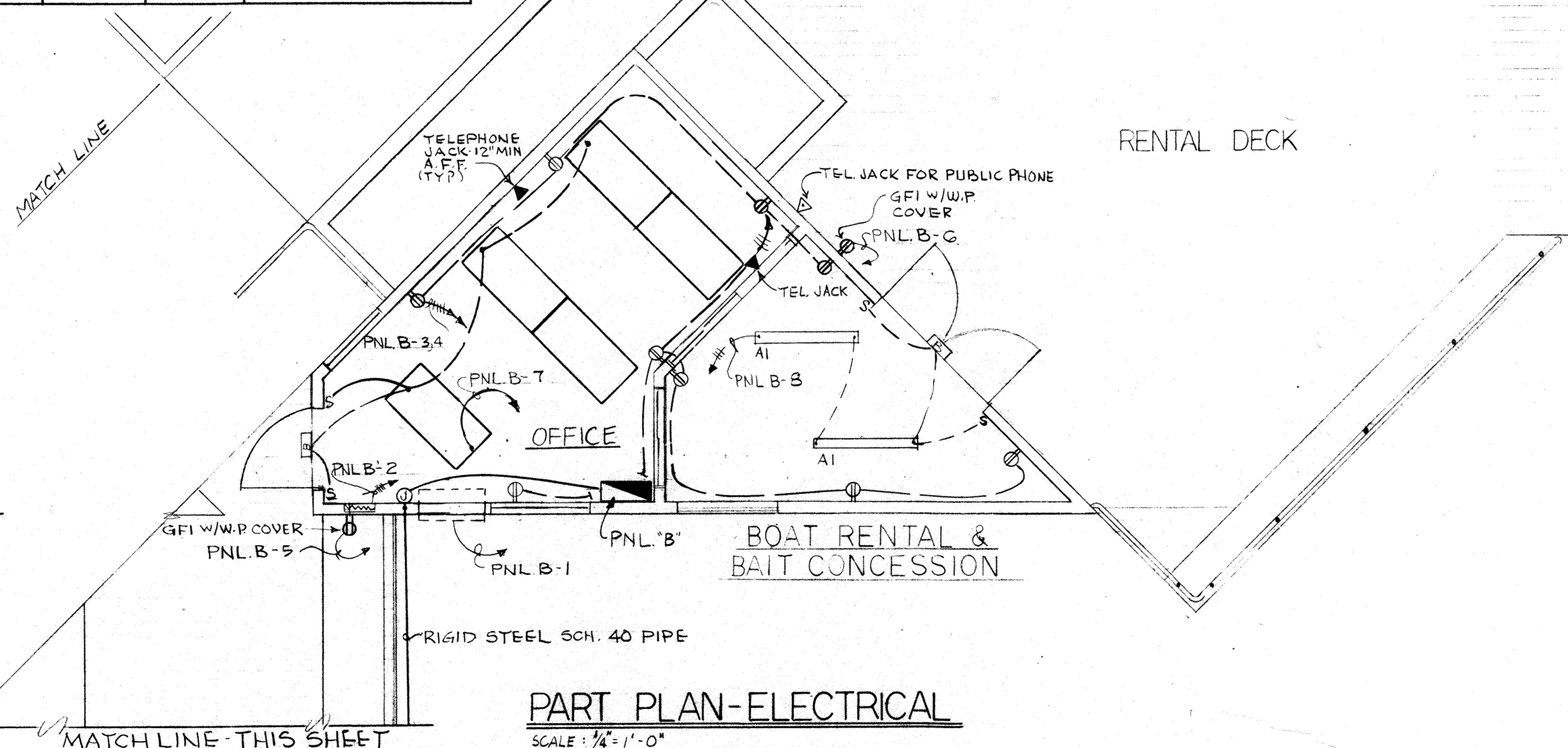
PROVIDE A 5/8" CHAIN SECURELY FASTENED TO BOTH DOOR & BOX W/ STAINLESS STEEL VANDAL PROOF HARDWARE. ALLOW ENOUGH SLACK IN CHAIN SO THE DOOR MAY OPEN FREELY.

DUPLEX G.F.I. RECEPTACLE MOUNTED IN A STANDARD JUNC. BOX W/ SPRING DR. P.E.S. CAT. NO. 4502 MTD. HORIZONTALLY IN BOX.

GFI RECEPTACLE DETAIL-OUTSIDE

N.T.S.

BOOA MCB	CIRCUIT BREAKER	RATING	HOMERUN WIRING	SERVING
120/208-3Ø-4W	1	225-3Ø	250-3Ø C	PANEL 'A' LOCATION
RATED FOR SERVICE	2	225-3Ø	250 MCM-3Ø	PANEL 'B' IN BUILDING
ENTRANCE A.I.C.	3	225-2Ø	350 MCM-3Ø	PANEL 'B' LOCATION
COMPATIBLE WITH B.G.E. SERVICE EQUIP.	4	225-3Ø	350 MCM-4Ø	PANEL 'C' LOCATION
	5	2Ø-2Ø	*8-3Ø C	EXT. LGT. POLE
	6	2Ø-6Ø		SPARE
	7	3Ø-3Ø		PUMPING STATION
	8	3Ø		SPACE



PART PLAN-ELECTRICAL

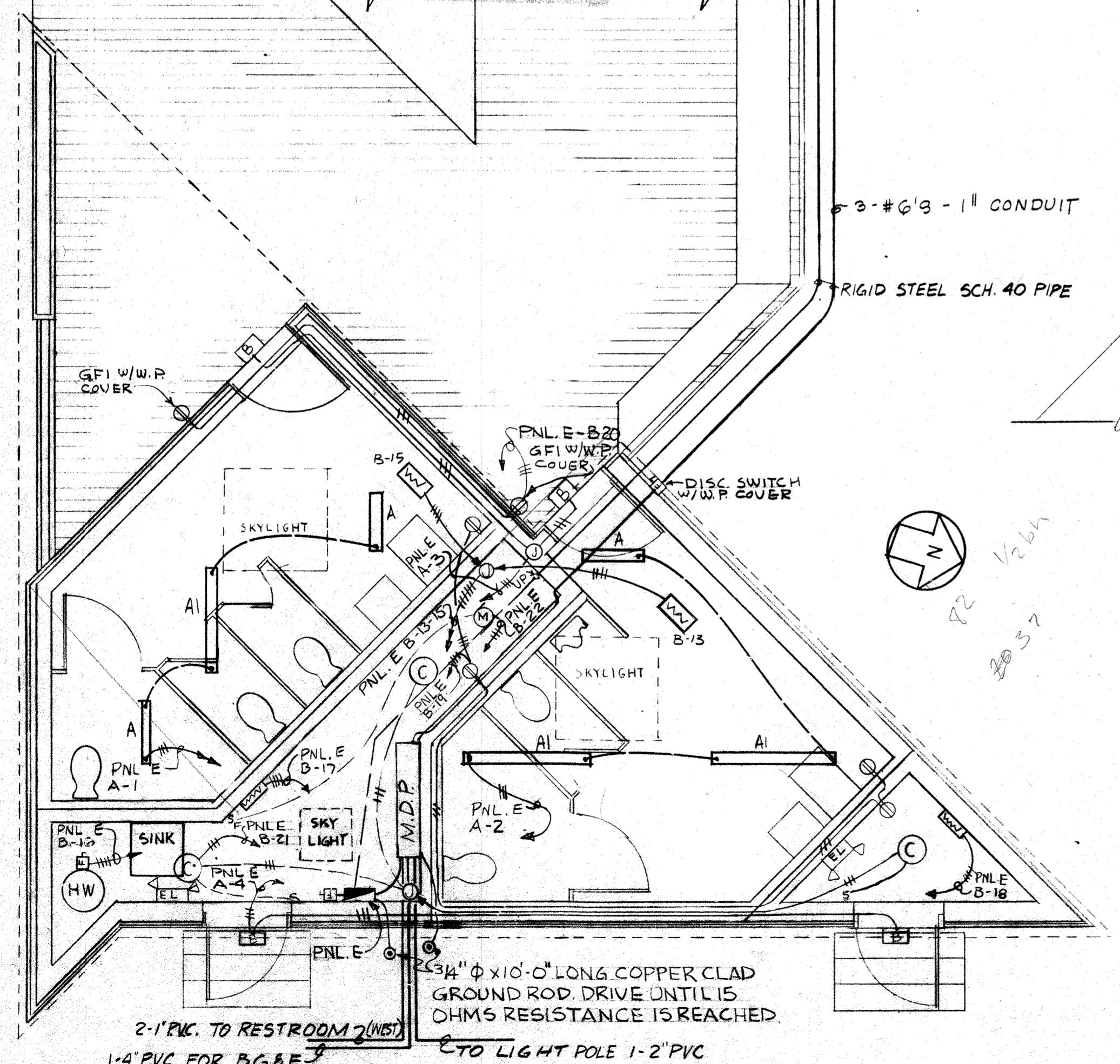
SCALE: 1/4" = 1'-0"

PANELBOARD 'E' SCHEDULE

SECTION	CIRCUIT BREAKER	RATING	HOMERUN WIRING	SERVING
120/208-3Ø-4W 225A MCB				
100A MLO	1	1Ø-20A	3"10BX	MENS ROOM LTG'S
	2	1Ø-20A	3"10BX	WOMENS ROOM LTG'S
	3	1Ø-20A	3"10-3/4Ø	OUTDOOR LTG'S
	4	1Ø-20A	3"10-3/4Ø	OUTDOOR LTG'S
SECTION 'B'	5-7	1Ø-20A	-	SPARE
	8-12	1Ø-	-	SPACE
	13	2Ø-6ØA	4"4-1/4Ø	UNIT HTR- MENS RM.
	14	2Ø-25A	4"1/0-2Ø	SECTION 'A'
	15	2Ø-6ØA	4"4-1/4Ø	UNIT HTR- WOMENS RM
	16	2Ø-3ØA	4"8-1Ø	H.W. HEATER
	17	2Ø-3ØA	4"8-1Ø	CHASE-SPACE HTR.
	18	2Ø-2ØA	4"10-3/4Ø	STORAGE SPACE HTR.
19	1Ø-2ØA	3"12-3/4Ø	RECEPTACLES	
20	1Ø-2ØA	3"10-3/4Ø	RECEPTACLES-GFI	
21	1Ø-2ØA	3"12-3/4Ø	CHASE STORAGE LTG	
22	1Ø-2ØA	3"10-3/4Ø	ROOF VENTILATOR MOTOR	
23	1Ø-2ØA	-	SPARE	
24	1Ø-2ØA	3"10-3/4Ø	TIME CLOCK	
25-28	1Ø-2ØA	-	SPARE	
29-32	1Ø-	-	SPACE	

PANELBOARD 'B' SCHEDULE

CIRCUIT BREAKER	RATING	HOMERUN WIRING	SERVING
120/240-1Ø-3W 225A MCB			
1	2Ø-4ØA	4"6-1Ø	THRU WALL HVAC.
2	2Ø-2ØA	3"10-3/4Ø	HEATER OFFICE
3-4	1Ø-2ØA	3"12-3/4Ø	RECEPTACLES
5	1Ø-2ØA	3"10-3/4Ø	RECEPTACLE-GFI
6	1Ø-2ØA	3"10-3/4Ø	RECEPTACLE-GFI
7	1Ø-2ØA	3"12-3/4Ø	LIGHTS-OFFICE
8	1Ø-2ØA	3"12-3/4Ø	LIGHTS-BOAT RENTAL
9-14	1Ø-2ØA	-	SPARES
15-19	1Ø-	-	SPACES



PART PLAN-ELECTRICAL - FOR RESTROOM BLDG. & BOAT DOCK

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

Add Alternate #1 - Entire Sheet

APPROVED: For Public Water, Drainage Systems and Storm and Storm

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Steve Henry 8-28-84
DIRECTOR DATE

John S. Quinn 8-28-84
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: For Public Water and Private Sewerage Systems

HOWARD COUNTY HEALTH DEPARTMENT

John S. Quinn 1-27-84
COUNTY HEALTH OFFICER DATE

APPROVED: Howard County Office of Planning and Zoning

Thomas J. Harris 8-29-84
PLANNING DIRECTOR DATE

John S. Quinn 8-29-84
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City Elect. Dist. No. 2, Ho. Co. Tax Map No. 30 Law Docket A-3652 Liber 781 Folio 592, Parcel 345, 63.6 Ac. Liber 333 Folio 62, Parcel (Partial) 10, 42.9 Ac. Liber 507 Folio 437, Parcel 278, 61.45 Ac. Adjacent Property Owners:

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LD LAND DESIGN / RESEARCH, INC.
5560 STERRETT PLACE, SUITE 300
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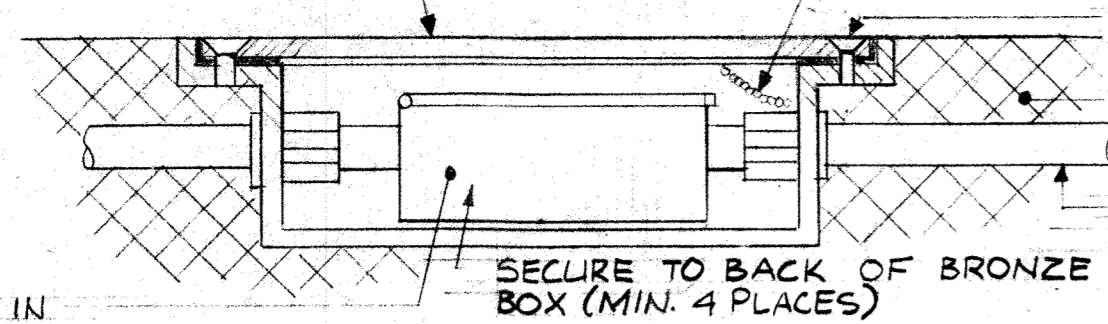
ELECTRICAL-CONCESSION BLDG. SYMBOL LIST, SCHEDULES & DETAIL

CENTENNIAL PARK PHASE FOUR - LAKESHORE SOUTH AREA

DATE	REVISIONS:	SHEET NO.
6-1-83		38
4-1-80		OF 81
10-21-83		

3"x6"x6" CAST BRONZE BOX W/GASKETED COVER
NEMA 4 UL LISTED MOUNTING LUGS & SLIP HOLES.
SPRING CITY MFG CO. CAT NO. ER 080606 OR
APP'D. EQUAL.

PROVIDE A 5/8" CHAIN SECURELY FASTENED
TO BOTH DOOR & BOX W/5/8" VANDAL PROOF
HARDWARE. ALLOW ENOUGH SLACK IN CHAIN SO THE
DOOR MAY OPEN FREELY.



VANDAL RESISTANT 5/8"
CAPTIVE SCREW (6 REQ'D)
BLOCK WALL

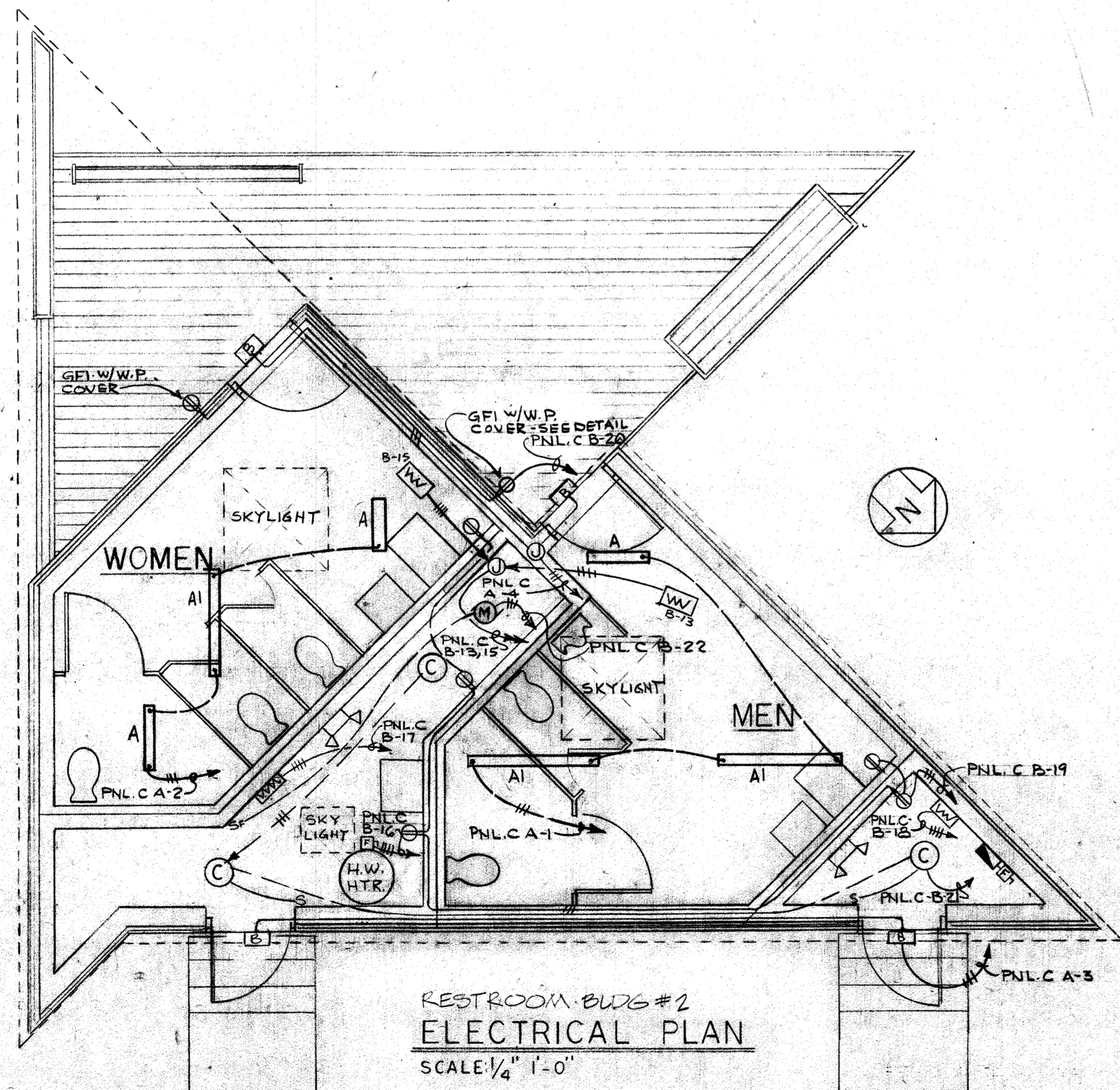
3/4" RIGID STEEL CONDUIT W/ LOCKNUTS
& BUSHINGS. SEAL CONDUIT W/ MASTIC.

DUPLEX GFI RECEPTACLE MTD. IN
A STANDARD JUNC. BOX W/ SPRING
DOOR P&S CAT. NO. 4502 MTD.
HORIZONTALLY IN BOX

SECURE TO BACK OF BRONZE
BOX (MIN. 4 PLACES)

GFI RECEPTACLE DETAIL - OUTSIDE

NTS.



RESTROOM BLDG #2
ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"

PANELBOARD "C" SCHEDULE				
120/208V - 3φ - 4W 225A MCB				
SECTION	CIRCUIT BREAKER	RATING	HOMERUN WIRING	SERVING
SECTION "A" 100A M.C.B.	1	1P-20A	3"10-BX	MENS RM. LTGS.
	2	1P-20A	3"10-BX	WOMENS RM. LTGS.
	3	1P-20A	3"10-3/4"C	OUTDOOR LTGS.
	4	1P-20A	3"10-3/4"C	OUTDOOR LTGS.
	5-7	1P-20A	-	SPARES
	8-12	1P-	-	SPACES
SECTION "B" 225A M.C.B.	13	2P-60A	4"4-1/4"C	UNIT HTR MENS RM.
	14	2P-125A	4"6-2"C	SECTION "A"
	15	2P-60A	4"4-1/4"C	UNIT HTR WOMENS RM.
	16	2P-30A	4"8-1"C	H.W. HEATER
	17	2P-30A	4"8-1"C	CHASE-SPACE HTR.
	18	2P-20A	4"10-3/4"C	STORAGE-SPACE HTR.
	19	1P-20A	3"12-3/4"C	RECEPTACLES
	20	1P-20A	3"10-3/4"C	RECEPTACLES-GFI
	21	1P-20A	3"12-3/4"C	CHASE-STORAGE LTGS
	22	1P-20A	3"10-3/4"C	ROOF VENTILATOR MOTOR
	23	1P-20A	-	SPARE
	24	1P-20A	3"10-3/4"C	TIME CLOCK
	25-28	1P-20A	-	SPARES
29-32	1P-	-	SPACES	

APPROVED: For Public Water, and Storm
Drainage Systems and Roads

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Joseph J. Nunn 8-28-87
DIRECTOR DATE

William S. Ray 8-28-87
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: For Public Water and Private
Sewerage Systems

HOWARD COUNTY HEALTH DEPARTMENT

Joseph J. Nunn 1-25-84
COUNTY HEALTH OFFICER DATE

APPROVED: Howard County Office of Planning and Zoning

Thomas L. Harris 8-29-86
PLANNING DIRECTOR DATE

William S. Ray 8-29-87
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

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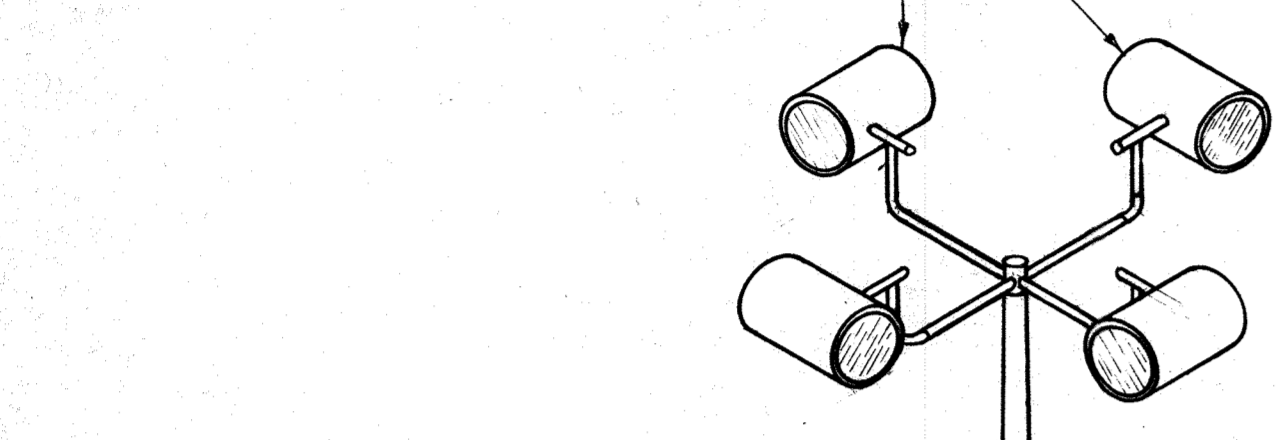
RESTROOM BLDG. - ELECTRICAL PLAN,
SERVICE LAYOUT & DETAILS

**CENTENNIAL PARK
PHASE FOUR - LAKESHORE SOUTH AREA**

DATE	REVISIONS:	SHEET NO.
SCALE AS NOTED		39
DRAWN		OF 81
CHECKED 10-21-83		

- NOTES:
- 1) 4" Schedule 40 PVC sleeves, min. 40" below grade. Extend 2'-0" beyond edge of pavement.
 - 2) Transformer and Pad by Baltimore Gas & Electric Co.
 - 3) Free standing meter cabinet 10'-0" behind T/F. See "Free standing meter enclosure assembly" this schedule.
 - 4) 3" Schedule 40 PVC direct burial conduit from meter to panel in building. Run min. 2'-0" below grade. By Contractor.
 - 5) Direct Burial Cable to transformer by B.G.&E. Co.
 - 6) The Contractor shall coordinate with the B.G.&E. Co. for exact locations of equipment, before any work is performed.
 - 7) In excavating, if the Contractor comes across any exist. utilities, he shall determine the condition & suitability for use. The method employed shall be acceptable to Howard Co. who shall be informed of damaged or obstructive utilities.

HOLOPHANE CO. 400 WATT METAL HALIDE VECTOR FLOOD LIGHT UNIT, (FINISH BLACK) WITH POLYCARBONATE SHIELD WITH 400 WATT UNIVERSAL BURNING METAL HALIDE LAMPS (6x4 NEMA BEAM SPREAD)



20'-0" HIGH ROLLED TAPERED ALUMINUM POLE. HOLOPHANE CO. OR APPROVED EQUAL.

HANDHOLE W/ STAINLESS STEEL TAMPERPROOF HARDWARE. HANDHOLE 10" ABV. BASE

BASE COVER WITH 5/8" TAMPER PROOF HARDWARE

1/2" EXPANSION JOINT (TYP.)

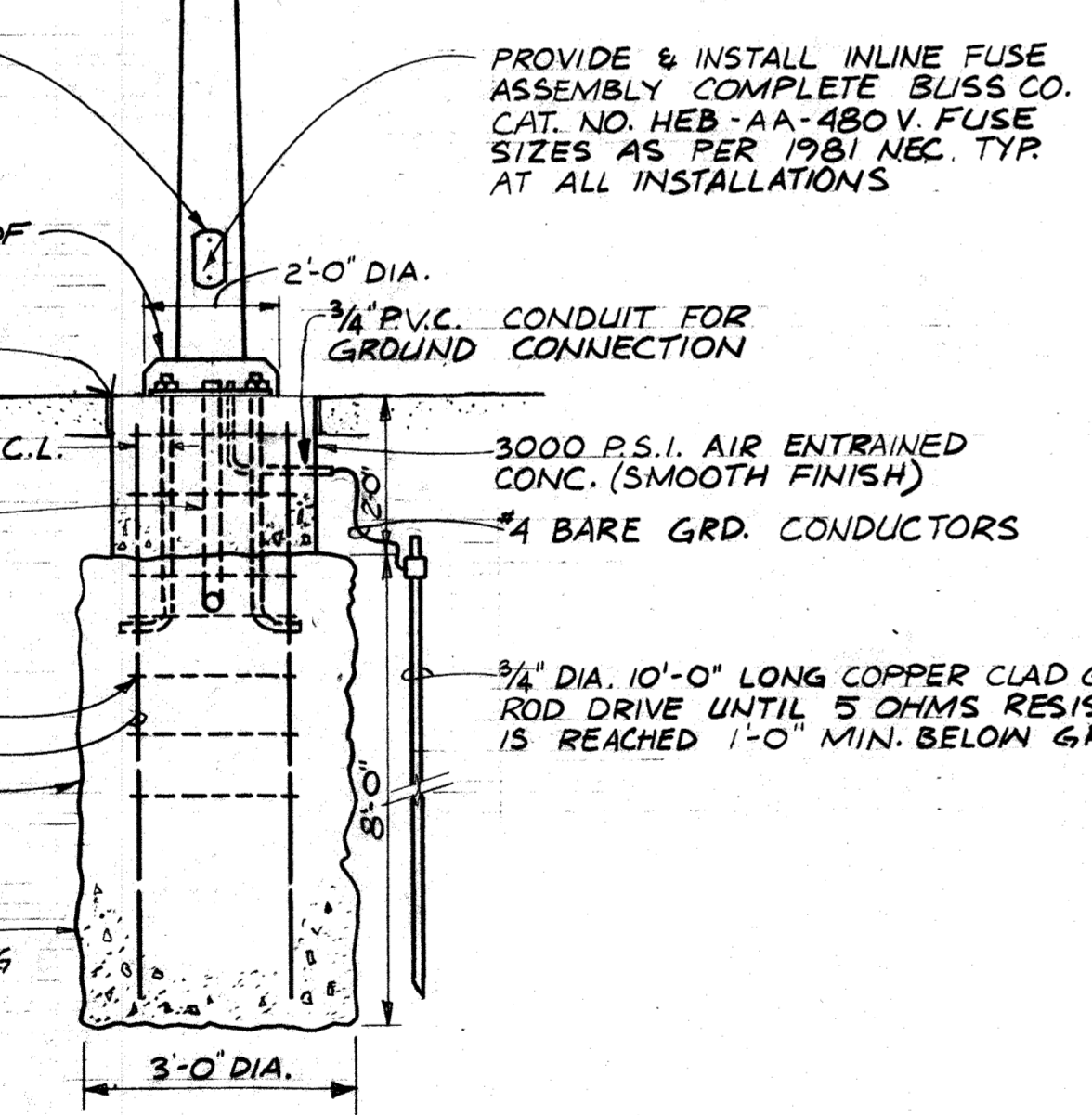
BRANCH CIRCUIT WIRING & CONDUIT AS REQ'D SEE SITE PLAN SHEET FOR SIZES.

#4 TIES AT 1'-0" O.C. 10 #6 BARS POUR CONC. AGAINST UNDISTURBE EARTH

NOTE: THE CONTRACTOR TO VERIFY BEARING CONDITIONS OF SOIL BEFORE POURING FOOTINGS INCREASE AREA AT BASE AS REQ'D.

24" DIA CONC. FOUNDATION TOP FLUSH W/ FINISH GRADE 24" BELOW GRADE. (SMOOTH FINISH)

(4) 1/4" Ø x 36 LG. ANCHOR BOLTS W/ 1/4" HOOKS BOLT CIRCLE TO SUIT POLE FURNISHED.



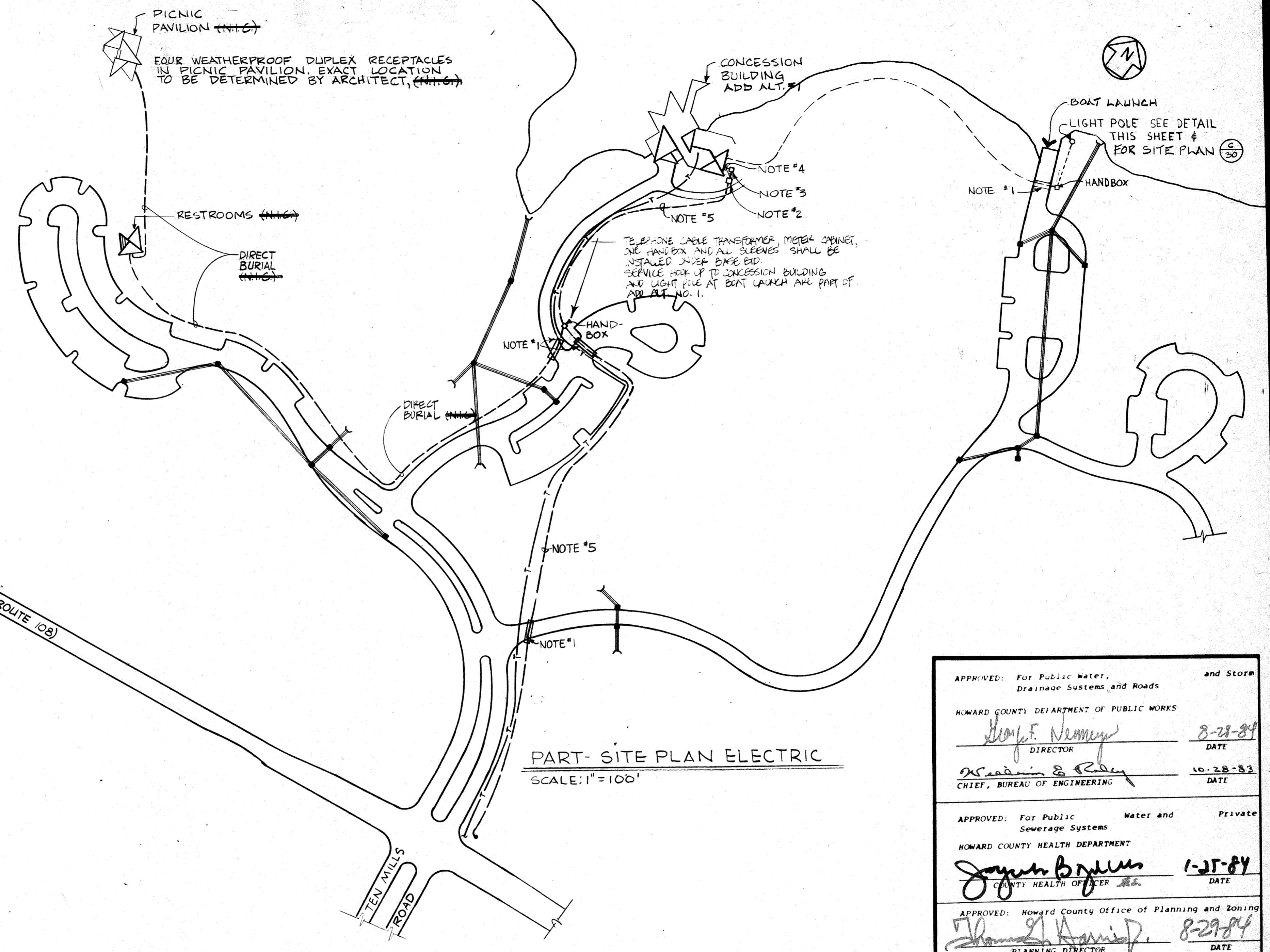
PROVIDE & INSTALL INLINE FUSE ASSEMBLY COMPLETE BUSS CO. CAT. NO. HEB-AA-480V FUSE SIZES AS PER 1981 NEC. TYP AT ALL INSTALLATIONS

3000 P.S.I. AIR ENTRAINED CONC. (SMOOTH FINISH)

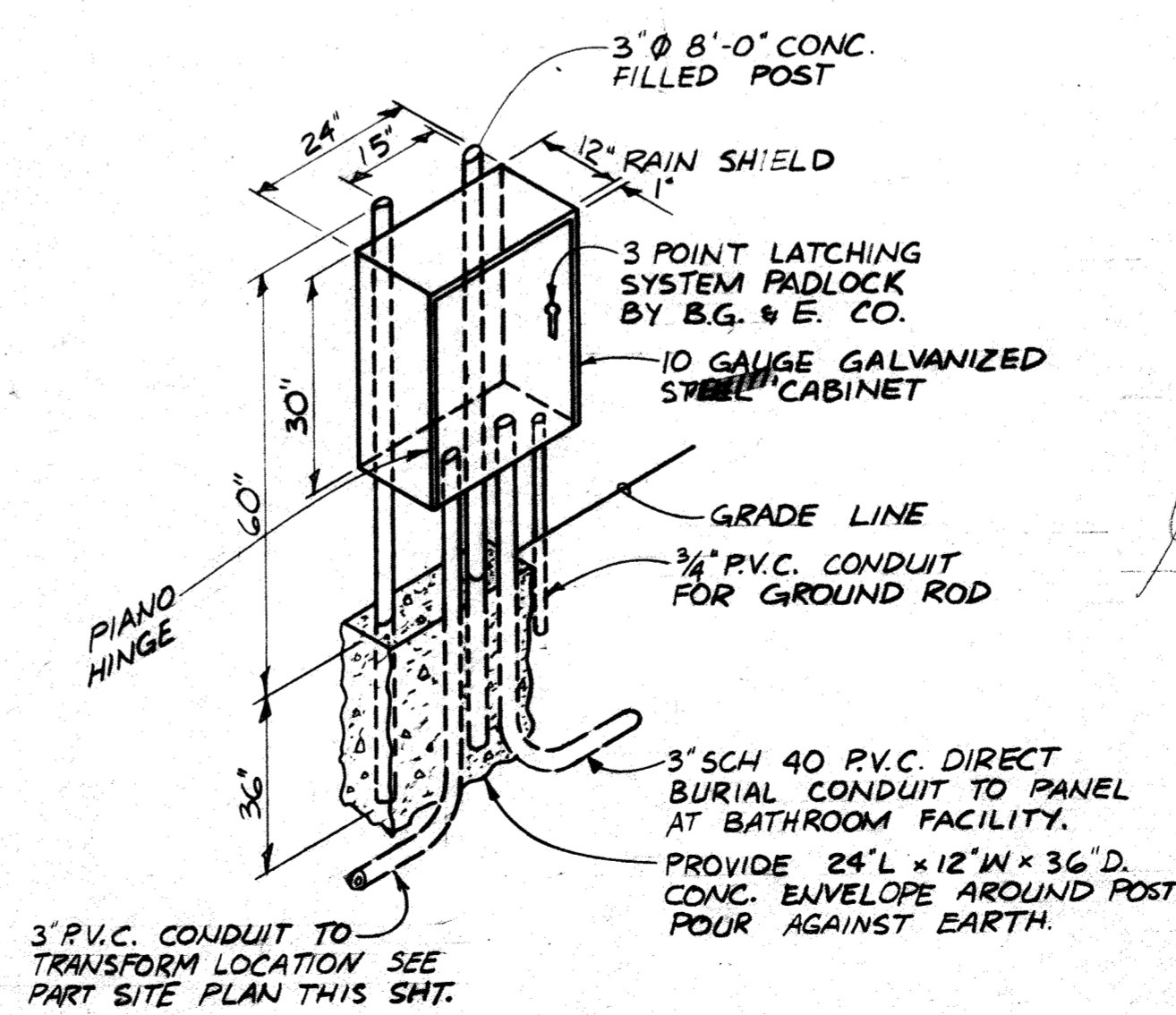
3/4" DIA. 10'-0" LONG COPPER CLAD GROUND ROD DRIVE UNTIL 5 OHMS RESISTANCE IS REACHED 1'-0" MIN. BELOW GRADE.

NOTE: SEE PART-SITE PLAN THIS SHT FOR LOCATION OF LIGHTPOLE. (C-30)

LIGHTING INSTALLATION
NO SCALE



PART-SITE PLAN ELECTRIC
SCALE: 1" = 100'



FREE STANDING METER ENCLOSURE ASSEMBLY
NO SCALE

APPROVED: For Public Water, Drainage Systems and Storm	and Storm
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>Joseph F. Nemmy</i>	8-28-84
DIRECTOR	DATE
<i>William E. Riley</i>	10-28-83
CHIEF, BUREAU OF ENGINEERING	DATE
APPROVED: For Public Water and Private Sewerage Systems	Water and Private
HOWARD COUNTY HEALTH DEPARTMENT	
<i>Joseph Boyles</i>	1-25-84
COUNTY HEALTH OFFICER	DATE
APPROVED: Howard County Office of Planning and Zoning	
<i>Thomas J. Harris</i>	8-29-84
PLANNING DIRECTOR	DATE
<i>John M. ...</i>	8-29-84
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION	DATE

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City, Md.

Elect. Dist. No. 2, Ho. Co. Tax Map No. 30
Law Docket A-3652

Liber 781 Folio 592, Parcel 345, 63.6 Ac.	
Liber 333 Folio 62, Parcel (Partial) 10, 42.9 Ac.	
Liber 507 Folio 437, Parcel 278, 61.45 Ac.	

Adjacent Property Owners:

Liber	Folio	Acres	Parcel
Legg, M. R.	875	471	1.01 126
Zaiser, W. J.	259	105	7.08 92
Saas, J. A.	274	299	2.36 93
Taury, J. P.	611	589	1.23 149
	383	604	1.16 94

LD R LAND DESIGN / RESEARCH, INC.
5560 STERRETT PLACE, SUITE 300
COLUMBIA, MARYLAND

ELECTRICAL SITE PLAN, DETAILS & NOTES

CENTENNIAL PARK
PHASE FOUR - LAKESHORE SOUTH AREA

DATE	6-1-83	REVISIONS:	SHEET NO.
SCALE	AS NOTED		40
DRAWN			OF 81
CHECKED	10-21-83		

APPROVED: For Public Water, and Storm Drainage Systems and Roads
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR DATE
[Signature] 8-28-84
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: For Public Water and Private Sewerage Systems
 HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER DATE
[Signature] 1-25-84

APPROVED: Howard County Office of Planning and Zoning

PLANNING DIRECTOR DATE

CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City, Elect. Dist. No. 2, Ho. Co. Tax Map No. 30 Law Docket A-3652

Liber 781 Folio 592, Parcel 345, 63.6 Ac.
 Liber 333 Folio 62, Parcel (Partial) 10, 42.9 Ac.
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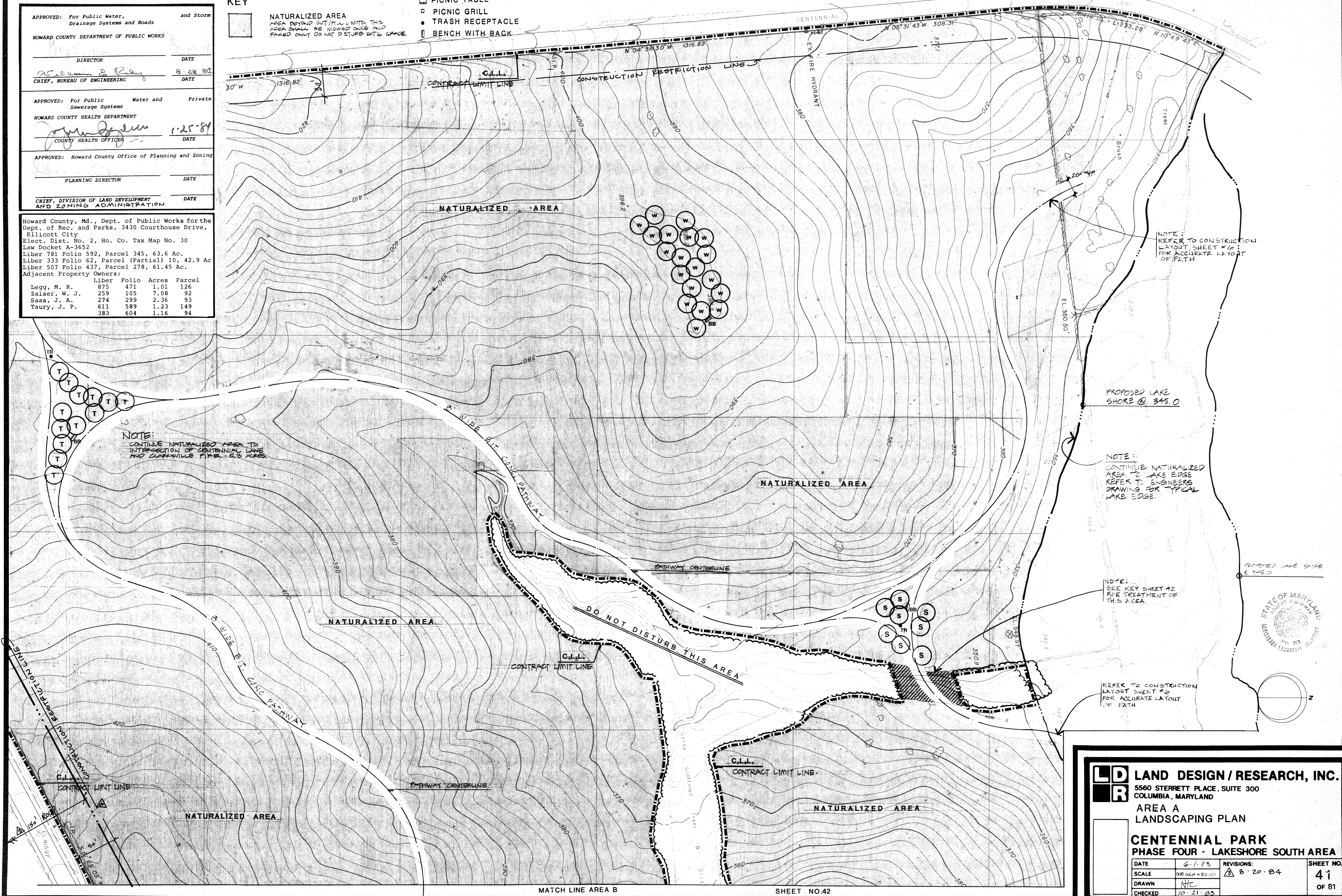
Adjacent Property Owners:

Liber	Folio	Acres	Parcel
Legg, M. R.	875	471	1.01 126
Zaiser, W. J.	259	105	7.08 92
Saas, J. A.	274	299	2.36 93
Taury, J. P.	611	589	1.23 149
	383	604	1.16 94

KEY

NATURALIZED AREA
 AREA BEYOND CONTRACT LIMITS. THIS AREA SHALL BE MOWED ONCE AND FINISHED ONLY. DO NOT DISTURB WITH GRASS.

PICNIC TABLE
 PICNIC GRILL
 TRASH RECEPTACLE
 BENCH WITH BACK



NOTE:
 CONTINUE NATURALIZED AREA TO INTERSECTION OF CENTENNIAL LANE AND CLARKVILLE PIKE - 5.3 ACRES

NOTE:
 REFER TO CONSTRUCTION LAYOUT SHEET #60 FOR ACCURATE LAYOUT OF PATH

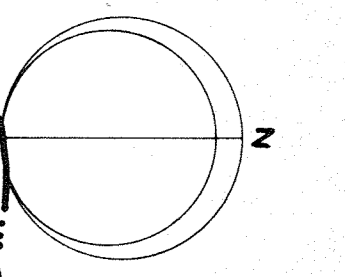
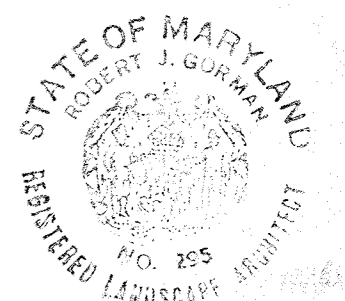
PROPOSED LAKE SHORE @ 345.0

NOTE:
 CONTINUE NATURALIZED AREA TO LAKE EDGE REFER TO ENGINEERS DRAWING FOR TYPICAL LAKE EDGE.

NOTE:
 SEE KEY SHEET 42 FOR TREATMENT OF THIS AREA

REFER TO CONSTRUCTION LAYOUT SHEET #60 FOR ACCURATE LAYOUT OF PATH

MARKED LAKE SHORE @ 345.0



LD LAND DESIGN / RESEARCH, INC.
 5560 STERRETT PLACE, SUITE 300
 COLUMBIA, MARYLAND

**AREA A
 LANDSCAPING PLAN**

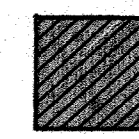
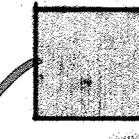
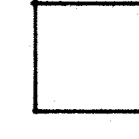
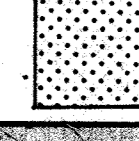
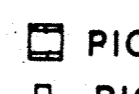
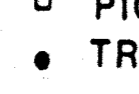
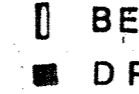


**CENTENNIAL PARK
 PHASE FOUR - LAKESHORE SOUTH AREA**

DATE	6-1-83	REVISIONS:	SHEET NO.
SCALE	ONE INCH = 50 FEET	8-20-84	41
DRAWN	HTC		OF 81
CHECKED	10-21-83		

MATCH LINE AREA B

SHEET NO. 42

KEY:

-  **NATURALIZED AREA**
TOPSOIL FINE GRADE AND SEED THE DISTURBED AREA WITHIN THE CUT/FILL LIMITS WITH NITROGEN MIX AND GRASS MIX AS SPECIFIED
-  **NATURALIZED AREA**
AREA BEYOND THE CUT/FILL LIMITS. THIS AREA SHALL BE MOWED ONCE AND ROLLED ONLY. DO NOT DISTURB EXIST'G GRADE.
-  **MAINTAINED LAWN**
AREA WITHIN THE CUT/FILL LIMITS. DISTURBED BY CONSTRUCTION OPERATION. TOPSOIL FINE GRADE, AND SEED WITH SPECIFIED LAWN SEED MIX.
-  **MAINTAINED LAWN**
DISC. EXIST'G GRADE THROUGHOUT. FINE GRADE AND SEED WITH THE SPECIFIED LAWN SEED MIX. MOW AT REGULAR INTERVALS.
-  **PICNIC TABLE**
-  **PICNIC GRILL**
-  **TRASH RECEPTACLE**
-  **BENCH WITH BACK**
-  **DRINKING FOUNTAIN**

MATCH LINE AREA A SHEET NO.41



MATCH LINE AREA C SHEET NO.43

APPROVED: For Public Water, and Storm
Drainage Systems and Roads
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature] 8-28-84
DIRECTOR DATE
[Signature] 8-28-84
CHIEF, BUREAU OF ENGINEERING DATE

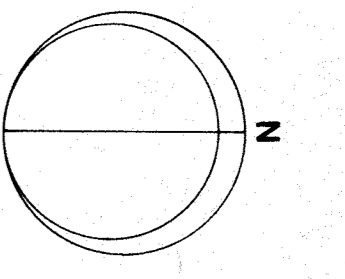
APPROVED: For Public Water and Private
Sewerage Systems
HOWARD COUNTY HEALTH DEPARTMENT
[Signature] 1-25-84
COUNTY HEALTH OFFICER DATE

APPROVED: Howard County Office of Planning and Zoning
[Signature] 8-28-84
PLANNING DIRECTOR DATE
CHIEF, DIVISION OF LAND DEVELOPMENT
AND ZONING ADMINISTRATION DATE

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City Elect. Dist. No. 2, Ho. Co. Tax Map No. 30
Law Docket A-3652
Liber 781 Folio 592, Parcel 345, 63.6 Ac.
Liber 333 Folio 62, Parcel (Partial) 10, 42.9 Ac.
Liber 507 Folio 437, Parcel 278, 61.45 Ac.
Adjacent Property Owners:

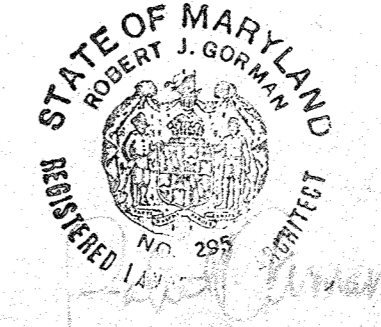
Owner	Liber	Folio	Acres	Parcel
Legg, M. R.	875	471	1.01	126
Zaiser, W. J.	259	105	7.08	92
Saas, J. A.	274	299	2.36	93
Taury, J. P.	611	589	1.23	149
	383	604	1.16	94

NOTE:
CONTINUE NATURALIZED AREA TO LAKE EDGE REFER TO ENGINEERS DRAWINGS FOR TYPICAL LAKE EDGE.

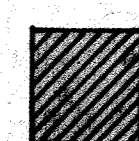



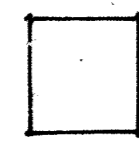
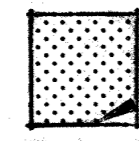
LD LAND DESIGN / RESEARCH, INC.
5560 STERRETT PLACE, SUITE 300
COLUMBIA, MARYLAND
AREA B
LANDSCAPING PLAN
CENTENNIAL PARK
PHASE FOUR - LAKESHORE SOUTH AREA

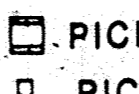
DATE	6.1.83	REVISIONS:	△ B.20.84	SHEET NO.	42
SCALE	ONE INCH = 50.0'				OF 81
DRAWN	JHE				
CHECKED	10.21.83				



KEY:

-  **NATURALIZED AREA**
TOPSOIL FINE GRADE AND SEED THE DISTURBED AREA WITH WILDFLOWER MIXTURE AND GRASS MIX AS SPECIFIED.
-  **NATURALIZED AREA**
AREA BEYOND CUT/FILL LIMITS. THIS AREA SHALL BE MOWED ONCE AND PAVED ONLY. DO NOT DISTURB EXISTING GRADE.

-  **MAINTAINED LAWN**
AREA WITHIN THE CUT/FILL LIMITS DISTURBED BY EARTHWORK OPERATION. TOPSOIL FINE GRADE, AND SEED WITH SPECIFIED LAWN SEED MIXTURE.
-  **MAINTAINED LAWN**
DISC EXIST. GRADE THOROUGHLY FINE GRADE AND SEED WITH THE SPECIFIED LAWN SEED MIXTURE. MOW AT REGULAR INTERVALS.

-  **PICNIC TABLE**
-  **PICNIC GRILL**
-  **TRASH RECEPTACLE**
-  **BENCH WITH BACK**

NOTE:
CONTINUE NATURALIZED AREA TO LAKE EDGE. REFER TO ENGINEERS DRAWINGS FOR TYPICAL LAKE EDGE.

APPROVED: For Public Water and Storm Drainage Systems and Roads
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 [Signature] DIRECTOR 8-28-84
 [Signature] CHIEF, BUREAU OF ENGINEERING 8-28-84

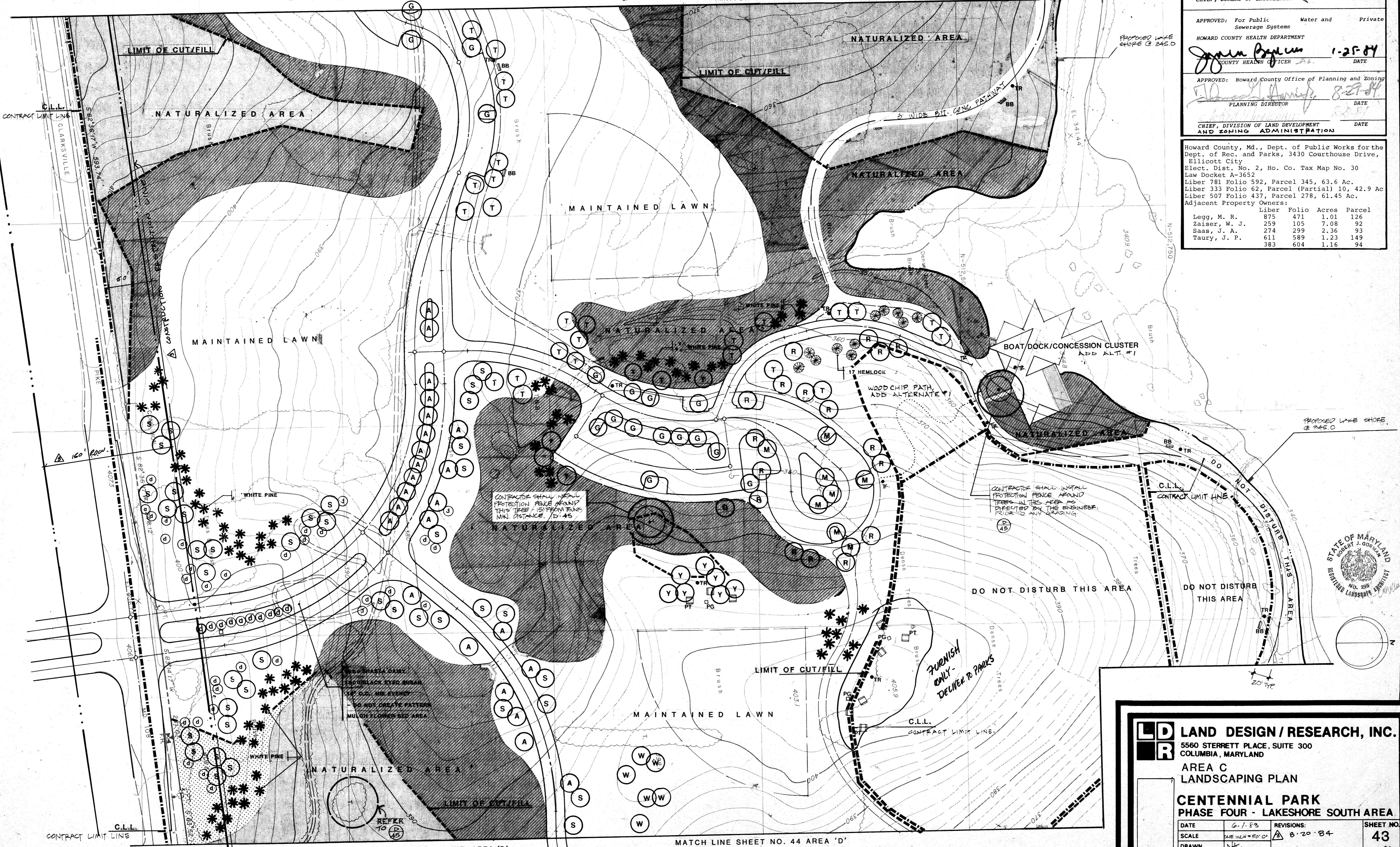
APPROVED: For Public Water and Private Sewerage Systems
 HOWARD COUNTY HEALTH DEPARTMENT
 [Signature] COUNTY HEALTH OFFICER 1-25-84

APPROVED: Howard County Office of Planning and Zoning
 [Signature] PLANNING DIRECTOR 8-27-84

CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City
 Elect. Dist. No. 2, Ho. Co. Tax Map No. 30
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 Adjacent Property Owners:

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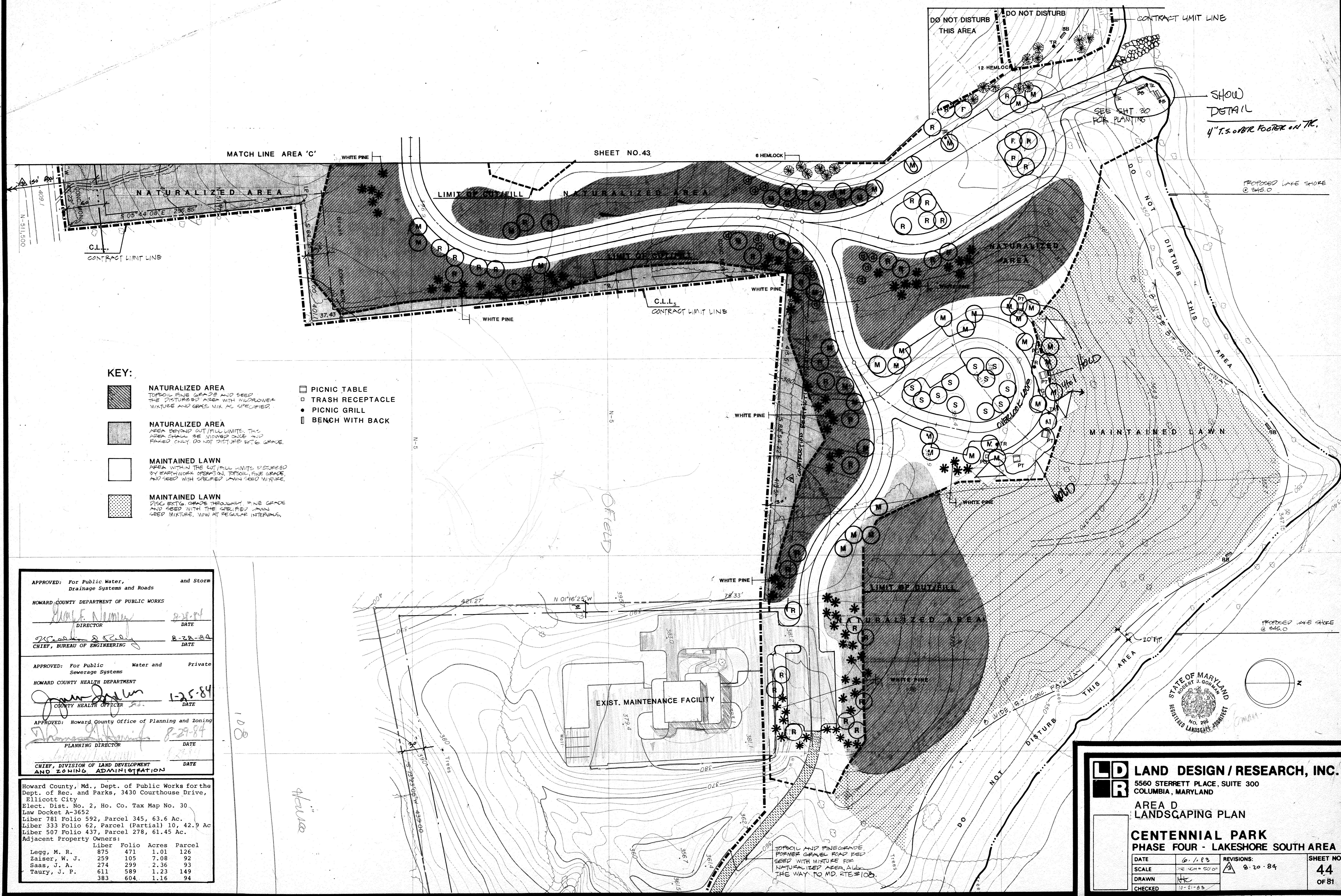


LD R LAND DESIGN / RESEARCH, INC.
 5560 STERRETT PLACE, SUITE 300
 COLUMBIA, MARYLAND

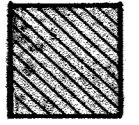
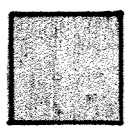
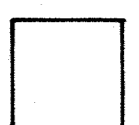
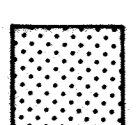

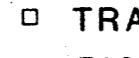
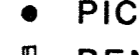
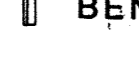
**AREA C
 LANDSCAPING PLAN**

**CENTENNIAL PARK
 PHASE FOUR - LAKESHORE SOUTH AREA**

DATE	6.1.83	REVISIONS:	SHEET NO.
SCALE	ONE INCH = 50' 0"	8-20-84	43
DRAWN	NC		OF 81
CHECKED	10-21-83		



KEY:

-  **NATURALIZED AREA**
TOPSOIL FINE GRADE AND SEED THE DISTURBED AREA WITH NIDFLOWER MIXTURE AND GRASS MIX AS SPECIFIED.
-  **NATURALIZED AREA**
AREA BEYOND CUT/FILL LIMITS. THIS AREA SHALL BE VIEWED SOLE AND PAVED ONLY (DO NOT DISTURB EXTG GRADE).
-  **MAINTAINED LAWN**
AREA WITHIN THE CUT/FILL LIMITS DISTURBED BY Earthwork OPERATION. TOPSOIL, FINE GRADE AND SEED WITH SPECIFIED LAWN SEED MIXTURE.
-  **MAINTAINED LAWN**
VIEW EXTG GRADE THROUGHLY FINE GRADE AND SEED WITH THE SPECIFIED LAWN SEED MIXTURE. MOW AT REGULAR INTERVALS.
-  **PICNIC TABLE**
-  **TRASH RECEPTACLE**
-  **PICNIC GRILL**
-  **BENCH WITH BACK**

APPROVED: For Public Water, Drainage Systems and Roads and Storm
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature] 8-28-84
 DIRECTOR DATE
[Signature] 8-28-84
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: For Public Water and Private Sewerage Systems
 HOWARD COUNTY HEALTH DEPARTMENT
[Signature] 1-25-84
 COUNTY HEALTH OFFICER DATE

APPROVED: Howard County Office of Planning and Zoning
[Signature] 8-29-84
 PLANNING DIRECTOR DATE
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

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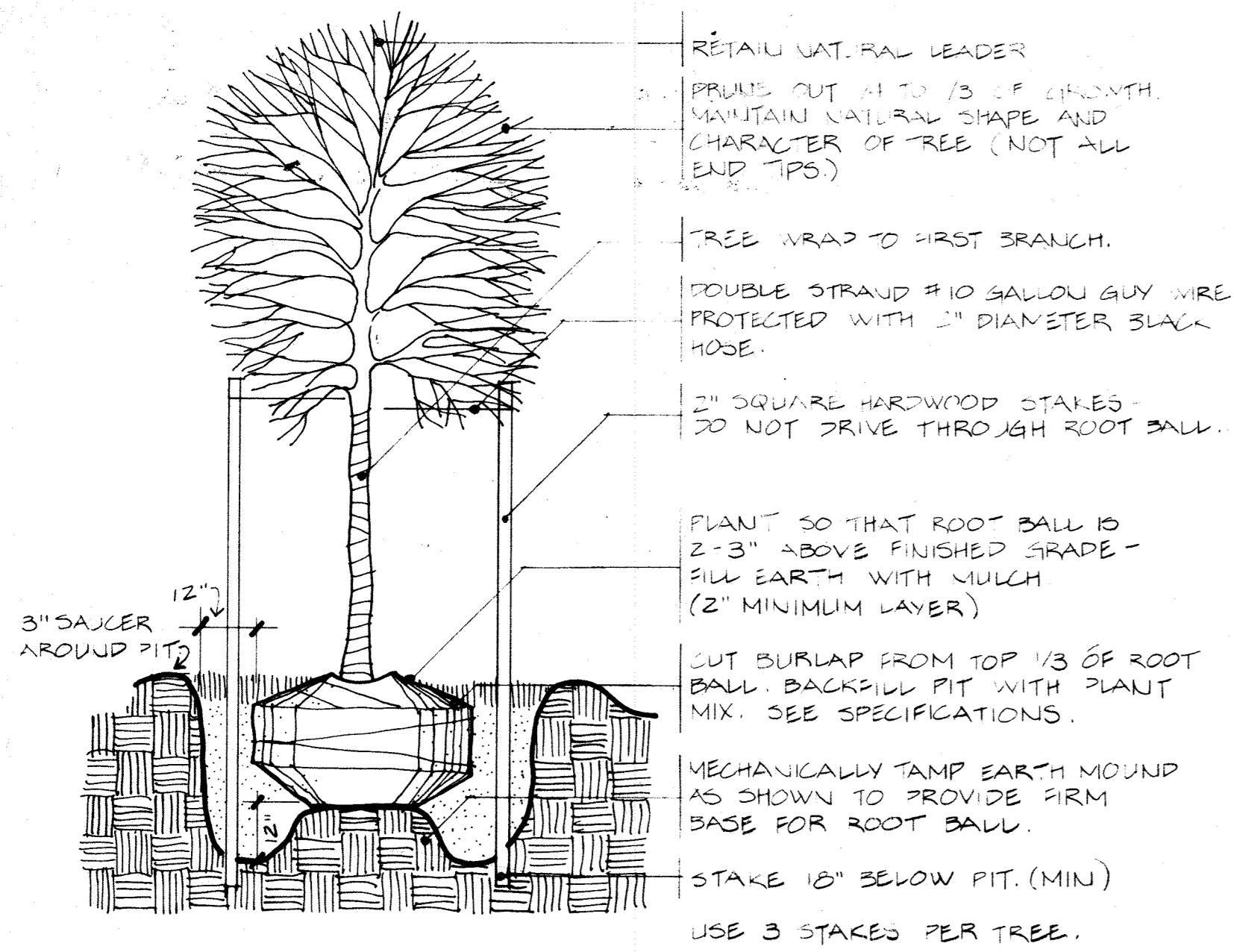
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LD LAND DESIGN / RESEARCH, INC.
 5560 STERRETT PLACE, SUITE 300
 COLUMBIA, MARYLAND

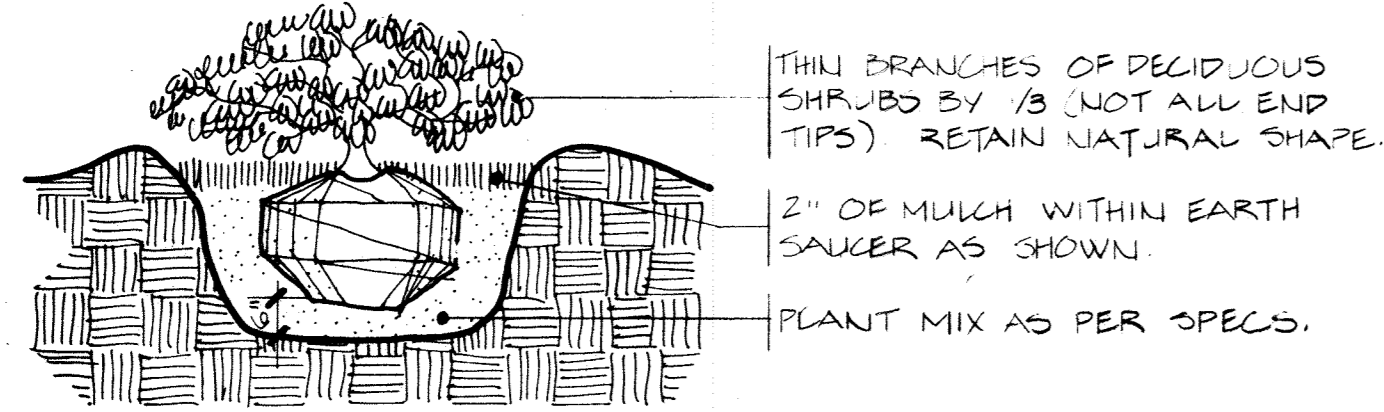
**AREA D
 LANDSCAPING PLAN**

**CENTENNIAL PARK
 PHASE FOUR - LAKESHORE SOUTH AREA**

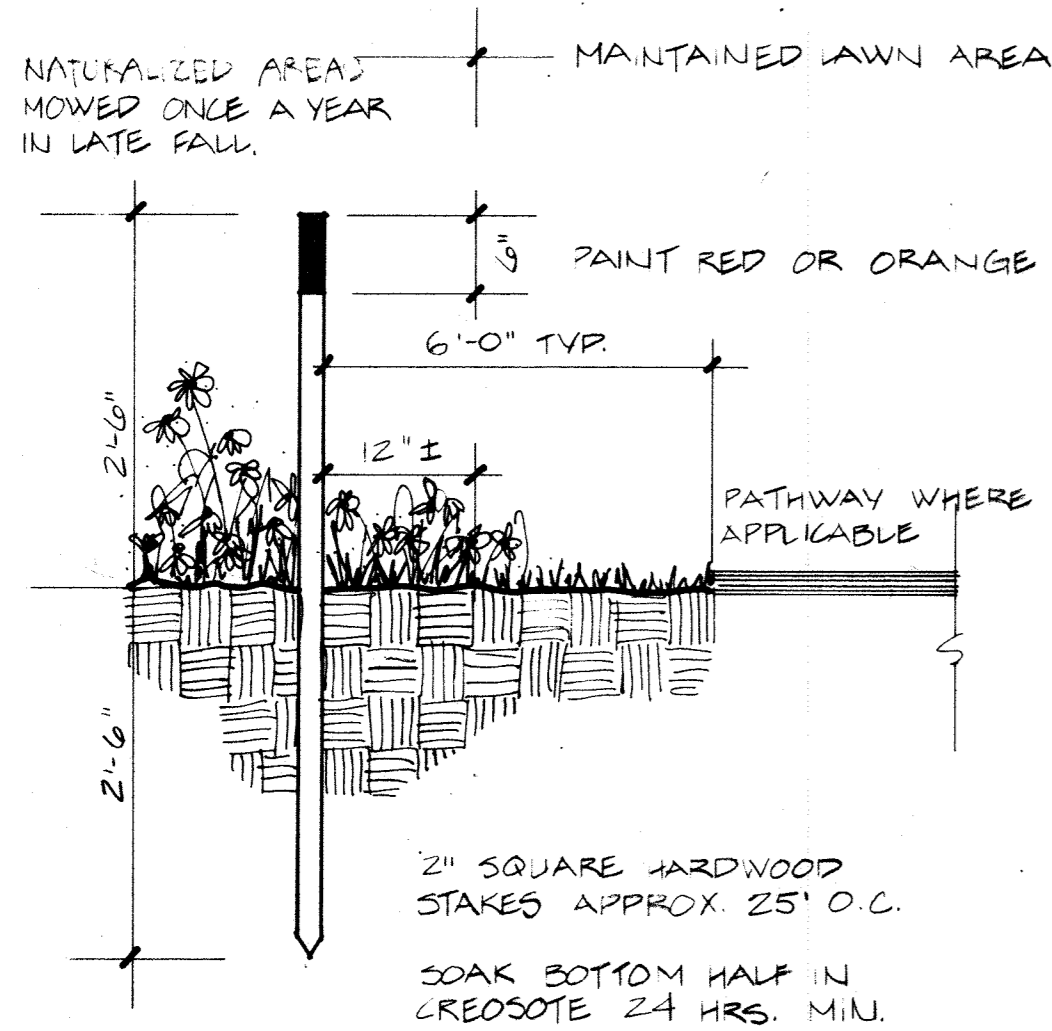
DATE	01/83	REVISIONS:	0-20-84	SHEET NO.	44
SCALE	1" = 50'			OF 81	
DRAWN	HTC				
CHECKED	10-21-83				



A TREE STAKING
NO SCALE



B SHRUB PLANTING
NO SCALE



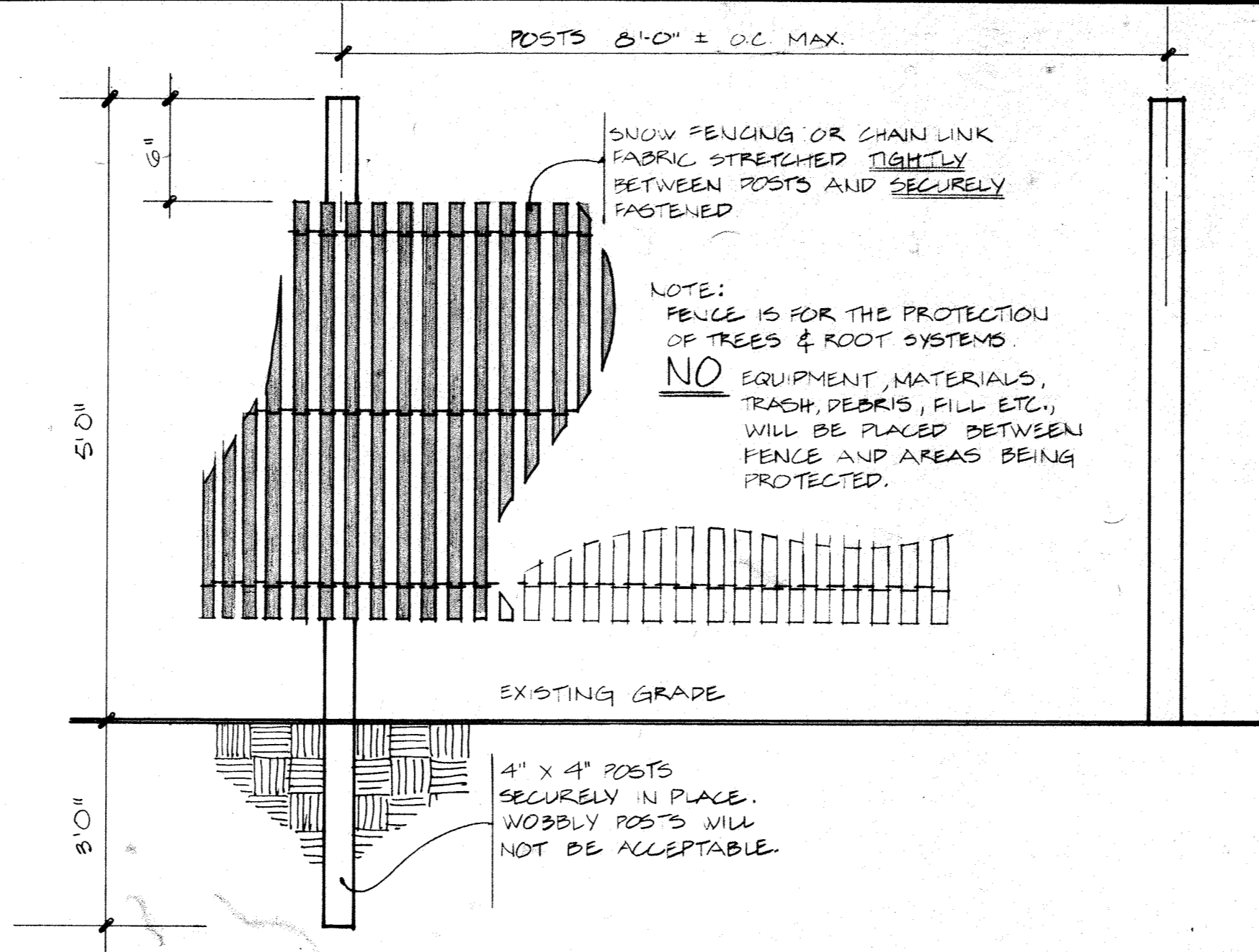
C DEFINING PERMANENT NATURAL AREAS
SCALE 3/4" = 1'-0"

WILDFLOWER MIX

WILDFLOWER SEED MIX SHALL CONSIST OF THE FOLLOWING SEED TYPES AND SHALL BE SUPPLIED BY HERBST BROTHERS SEEDSMEN, INC. (941)-279-2971, AS WILDFLOWER MIXTURE 39906 OR APPROVED EQUAL.

- RUDBECKIA HIRTA
- QUEEN ANNE'S LACE
- LINUM PERENE BLUE
- LUNARIA MIXED
- ASCLEPIAD SYRIACA
- SARDINARIA
- RUDBECKIA OGL. (CORNFLOWER)
- CHRYSANTHEMUM ALASKA
- PYRETHRUM GT. FL. MIXED
- POPPY ORIENTALS
- HIBISCUS GT. FL. MIXED
- RED TOP

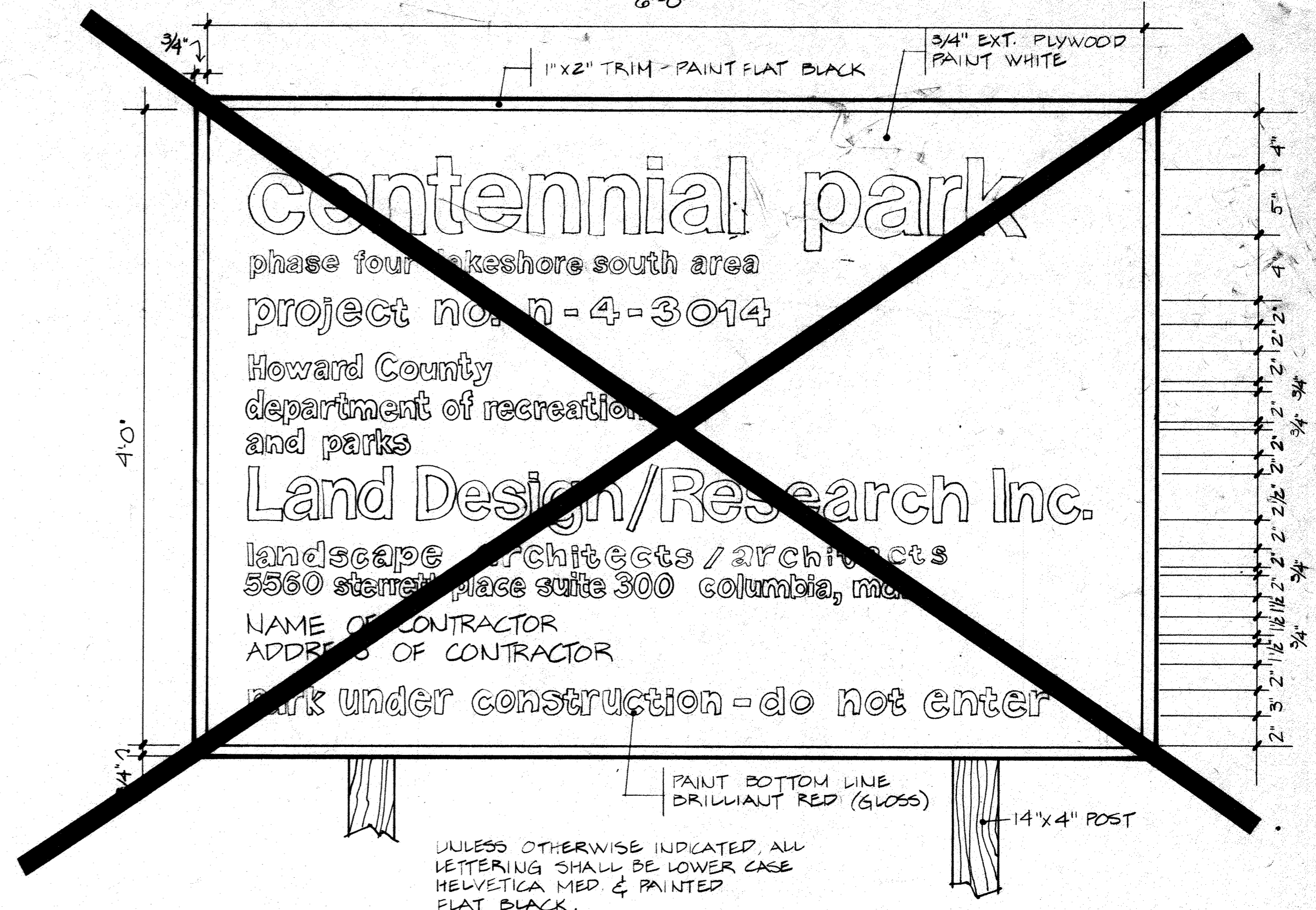
APPLY WILDFLOWER SEED WITH GRASS SEED AT THE RATE OF 2 (TWO) LBS. WILDFLOWER SEED TO 240 LBS. GRASS SEED PER ACRE. MULCH SHALL BE APPLIED TO WILDFLOWER BEDS AT THE SAME TIME AS LAWN AREAS.



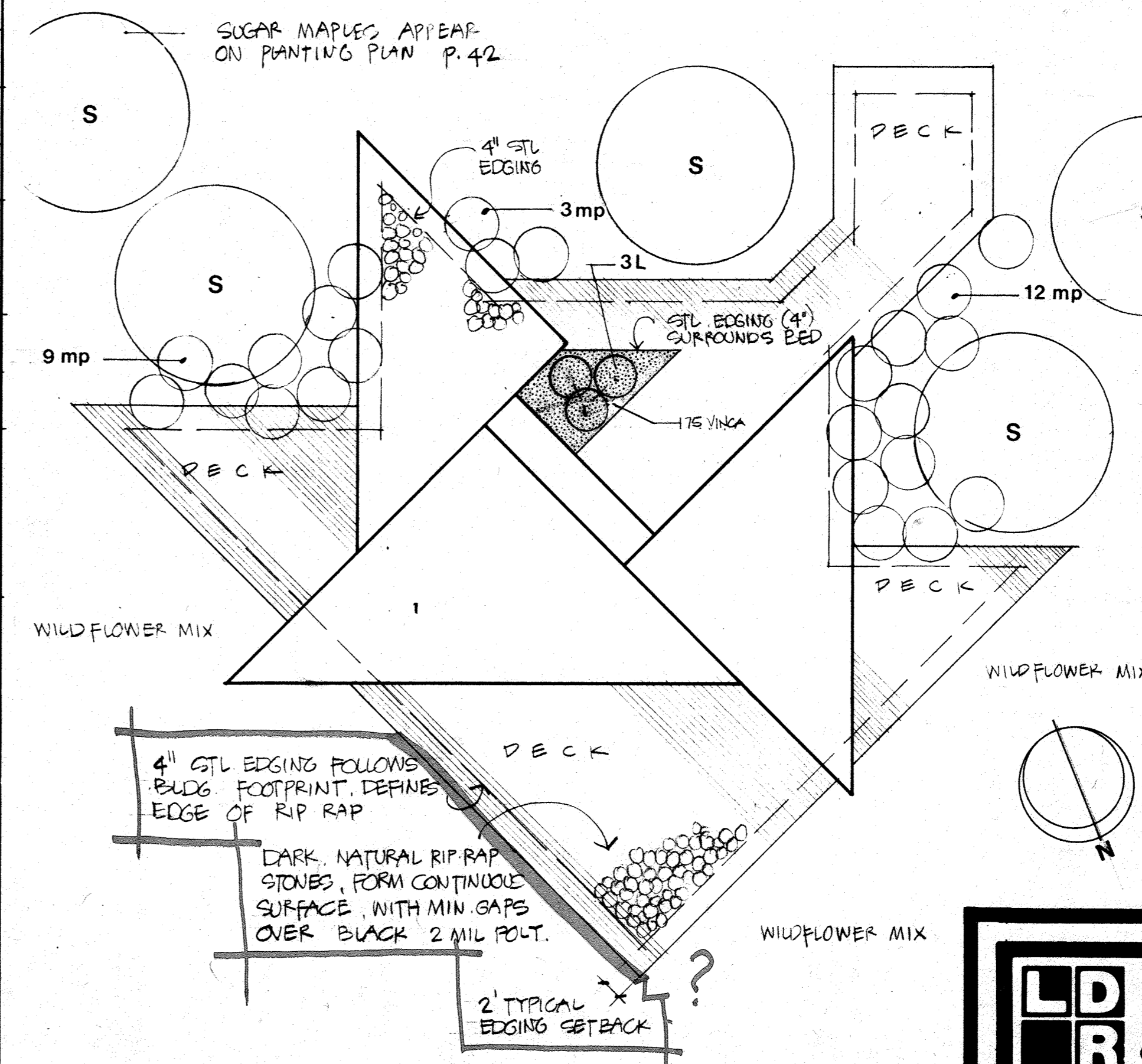
D TREE PROTECTION FENCE
SCALE 3/4" = 1'-0"

PLANT LIST (N.I.C.)

CODE	BOTANICAL / COMMON PLANT NAME	QUAN	SIZE	ROOT	REMARKS
M	ACER RUBRUM / RED MAPLE	40	2-2 1/2" CAL.	B+B	WELL HEADED
S	ACER SACCHARUM GREEN MOUNTAIN SUGAR MAPLE	20	2-2 1/2" CAL.	B+B	DENSE
Y	GLADASTRIS LUTEA / YELLOW WOOD	7	2-2 1/2" CAL.	B+B	
d	CORNUS FLORIDA / WHITE FLOWERING DOGWOOD	26	2-2 1/2" CAL.	B+B	
A	FRAXINUS LANCEOLATA MARSHALL'S / MARSHALL'S SEEDLESS ASH	24	2-2 1/2" CAL.	B+B	WELL HEADED
G	LIQUIDAMBAR STRYACIFLUA / SWEET GUM	45	2-2 1/2" CAL.	B+B	
(AM)	AMELANCHIER CANADENSIS CHADELON	6	1 1/2" 2" CAL.	B+B	MULTI-COLOR (9) SPECIMENS
r	WALNUT 'RED JADE' / RED JADE CRANAPLE	16	2-2 1/2" CAL.	B+B	HEAVY
T	NYSEA SYLVATICA / TUPELO	58	2 1/2" 3" CAL.	B+B	
*	FINUS STROBUS / WHITE PINE	265	2-2 1/2" CAL.	B+B	5'-6" HT. MIN. - NOT SHEARED
w	QUERCUS ALBA / WHITE OAK	25	3-3 1/2" CAL.	B+B	
*	TEUGA CANADENSIS / CANADA HEMLOCK	64	2-2 1/2" CAL.	B+B	5'-6" HT. MIN. - NO MULTI-STEMMED
R	QUERCUS BORBONIS / NORTHERN RED OAK	21	2 1/2" 3" CAL.	B+B	DENSE
mp	MYRTICA PENNSYLVANICA / BAY BERRY	24	2 1/2" 3" CAL.	CONT.	DENSE
RH	PHLODENDRON CANADENSE ALBUM	11	24-27" SPED	CONTAINER	WHITE FLOWERING OR LIGHT PINK ONLY
	KALMIA LATIFOLIA / MOUNTAIN LAUREL	68	24-30" SPED	CONTAINER	MAYBE B+B, IF NURSERY GROWN.
v	ILEX VERTICILLATA / WINTERBERRY	19	3-4" HGT.	B.R.	
	HEMEROCALLIS / NATIVE VARIETY DAY LILY (ORANGE)	4240	6" CAN.	BULBS	
	LIRIOPE MUSCARI / GREEN LIRIOPE	400	6" CAN.		PLANT 15" O.C.
	VINCA MINOR / PERIWINKLE	2550	2" POTS		PLANT 8" O.C.
o	LONICERA SEMPERVIRENS / TRUMPET HONEYUCKLE	6	3" POTS		2 YEARS
o	CUEMATIS PANICULATA / SWEET AUTUMN	3	2" POTS		2 YEARS
si	JUNIPERUS SARGENTI / SARGENT JUNIPER	14	18-24" SPED	B+B	DENSE
	BLACK EYED SUSAN	1800		CONT.	2 YEAR
	SHASTA DAISY	1800		CONT.	2 YEAR



E PROJECT SIGN



F PLANTING PLAN - LARGE PICNIC SHELTER
ONE EIGHT * 10' 0"

APPROVED: For Public Water, Drainage Systems and Storm and Storm
Howard County Department of Public Works
8-28-84
DIRECTOR
8-28-84
CHIEF, BUREAU OF ENGINEERING

APPROVED: For Public Water and Private Sewerage Systems
Howard County Health Department
1-2-84
COUNTY HEALTH OFFICER

APPROVED: Howard County Office of Planning and Zoning
8-27-84
PLANNING DIRECTOR
8-27-84
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City, Elect. Dist. No. 2, Ho. Co. Tax Map No. 30 Law Docket A-3652 Liber 781 Folio 592, Parcel 345, 63.6 Ac. Liber 333 Folio 62, Parcel (Partial) 10, 42.9 Ac. Liber 507 Folio 437, Parcel 278, 61.45 Ac. Adjacent Property Owners:

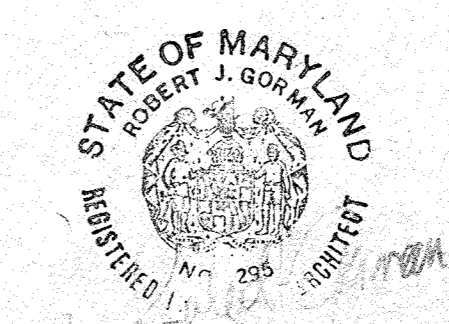
Liber	Folio	Acres	Parcel
Legg, M. R.	875	471	1.01 126
Zaiser, W. J.	259	105	7.08 92
Saas, J. A.	274	299	2.36 93
Taury, J. P.	611	589	1.23 149
	383	604	1.16 94

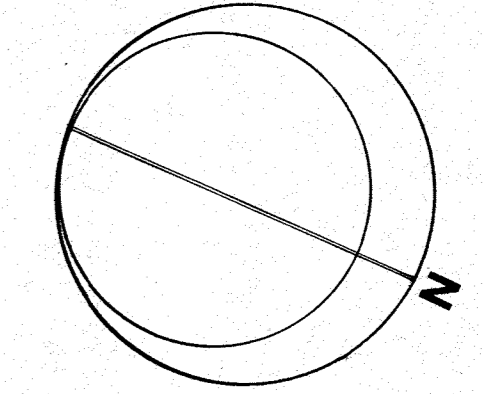
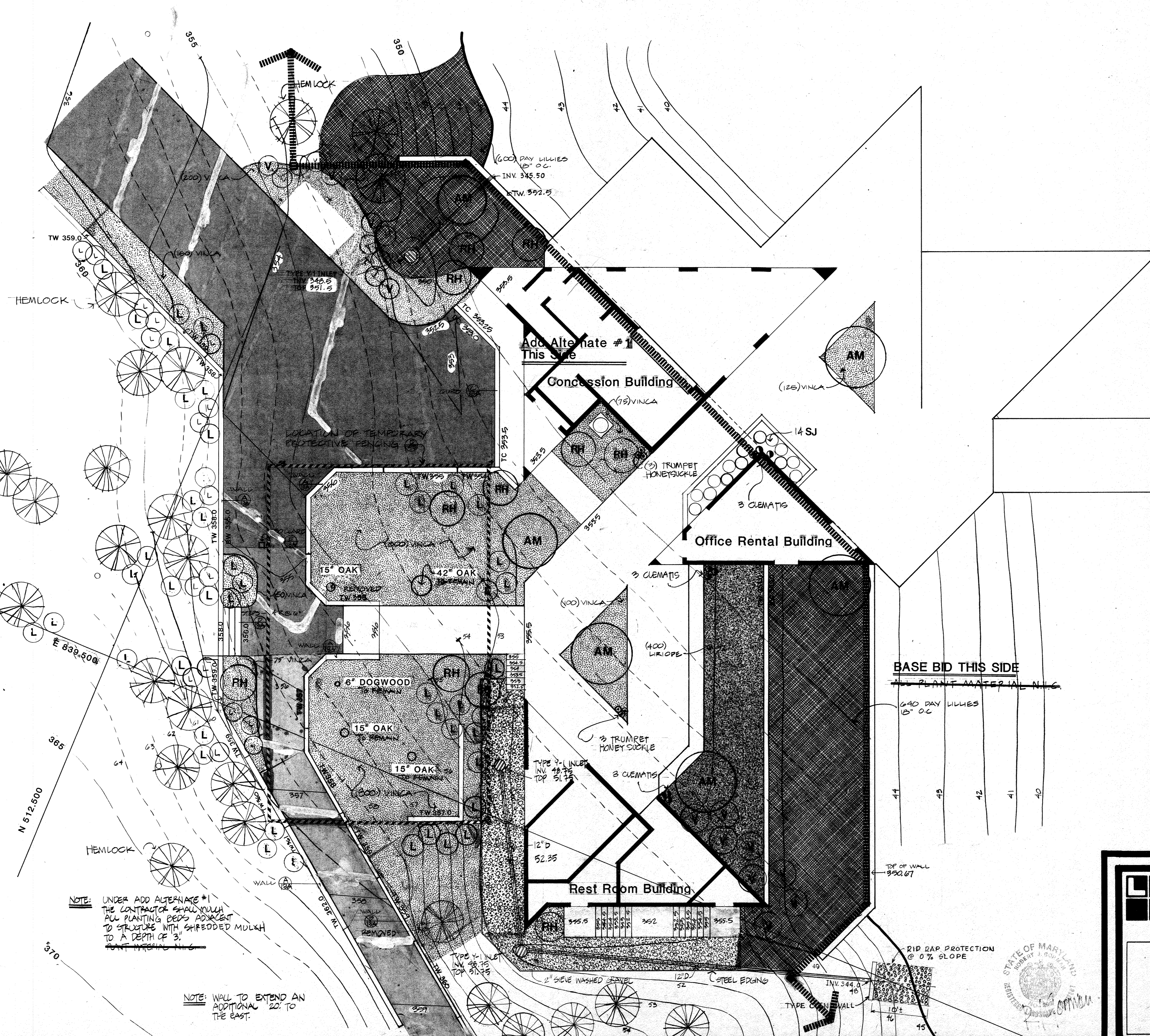
LD LAND DESIGN / RESEARCH, INC.
5560 STERRETT PLACE, SUITE 300
COLUMBIA, MARYLAND

LANDSCAPING DETAILS

CENTENNIAL PARK
PHASE FOUR - LAKESHORE SOUTH AREA

DATE	SCALE	REVISIONS:	SHEET NO.
6.1.83	AS NOTED		45
10-21-83			OF 81





APPROVED: For Public Water, Drainage Systems and Storm
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Director: *[Signature]* DATE: 8-18-84
 Chief, Bureau of Engineering: *[Signature]* DATE: 10-28-83

APPROVED: For Public Water and Private
 Sewerage Systems
 HOWARD COUNTY HEALTH DEPARTMENT
 County Health Officer: *[Signature]* DATE: 1-25-84

APPROVED: Howard County Office of Planning and Zoning
 Planning Director: *[Signature]* DATE: 8-29-84
 Chief, Division of Land Development and Zoning Administration: *[Signature]* DATE: 8-29-84

Howard County, Md., Dept. of Public Works for the Dept. of Rec. and Parks, 3430 Courthouse Drive, Ellicott City
 Elect. Dist. No. 2, Ho. Co. Tax Map No. 30
 Law Docket A-3652
 Liber 781 Folio 592, Parcel 345, 63.6 Ac.
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Taury, J. P.	611	589	1.23	149
	383	604	1.16	94

NOTE: UNDER ADD ALTERNATE #1 THE CONTRACTOR SHALL MULCH ALL PLANTING BEDS ADJACENT TO STRUCTURE WITH SHREDDED MULCH TO A DEPTH OF 3".

NOTE: WALL TO EXTEND AN ADDITIONAL 20' TO THE EAST.

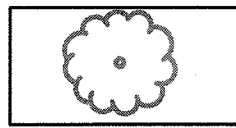
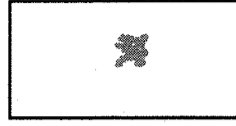

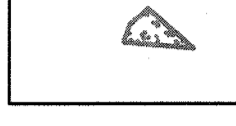
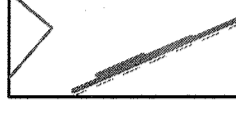
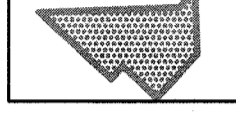
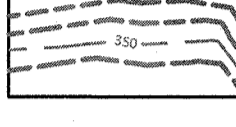
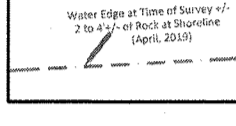
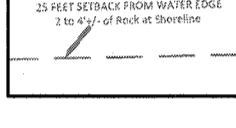
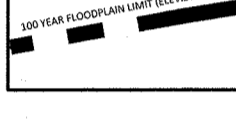

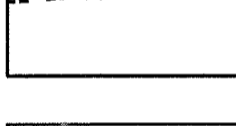

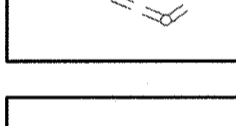
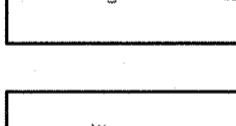
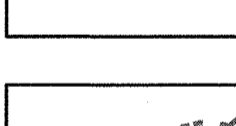

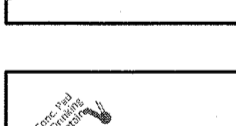

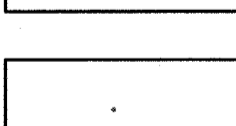


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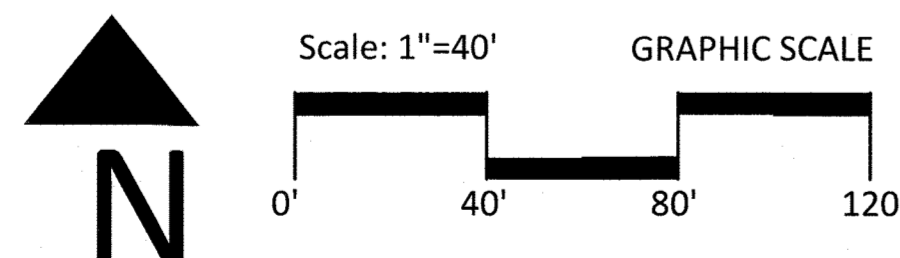
**BOATHOUSE CONCESSION BUILDING
 PLANTING/GRADING PLAN
 CENTENNIAL PARK
 PHASE FOUR - LAKESHORE SOUTH AREA**

DATE	6-1-83	REVISIONS:	SHEET NO.
SCALE	1/8" = 1'-0"	5-11-84	46
DRAWN			OF 81
CHECKED	10-21-83		

EXISTING CONDITIONS LEGEND

SYMBOL NOTE

-  DECIDUOUS TREE
-  EVERGREEN TREE
-  ASPHALT PAVING
-  CONCRETE PAVING
-  STRUCTURE PERIMETER
-  STRUCTURE WITH ROOF & PERIMETER WALLS
-  TOPOGRAPHIC CONTOURS
-  LAKE-WATER EDGE
-  25 FEET SETBACK FROM LAKE
-  100 YEAR FLOOD PLAIN LIMIT
-  CONCRETE CURB & GUTTER
-  TELECOMMUNICATIONS LINE
-  STORM DRAIN INLET STRUCTURE
-  STORM DRAIN PIPE
-  SANITARY PIPE
-  WATER PIPE
-  UNDERGROUND ELECTRIC LINE
-  FENCE
-  WATER FOUNTAIN
-  RETAINING WALL
-  BOLLARD
-  WATER VALVE

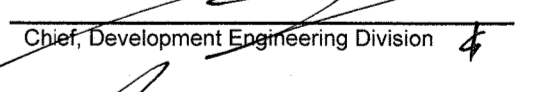
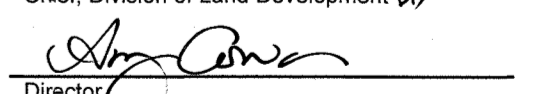



"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 490, EXPIRATION DATE: JUNE 17, 2023.



DESIGN PROFESSIONAL:
 PAUL WALSKY
 HOWARD CO. DEPT. OF REC. & PARKS
 7120 OAKLAND MILLS ROAD
 COLUMBIA, MARYLAND 21046
 TELEPHONE NUMBER: 410 313-1695



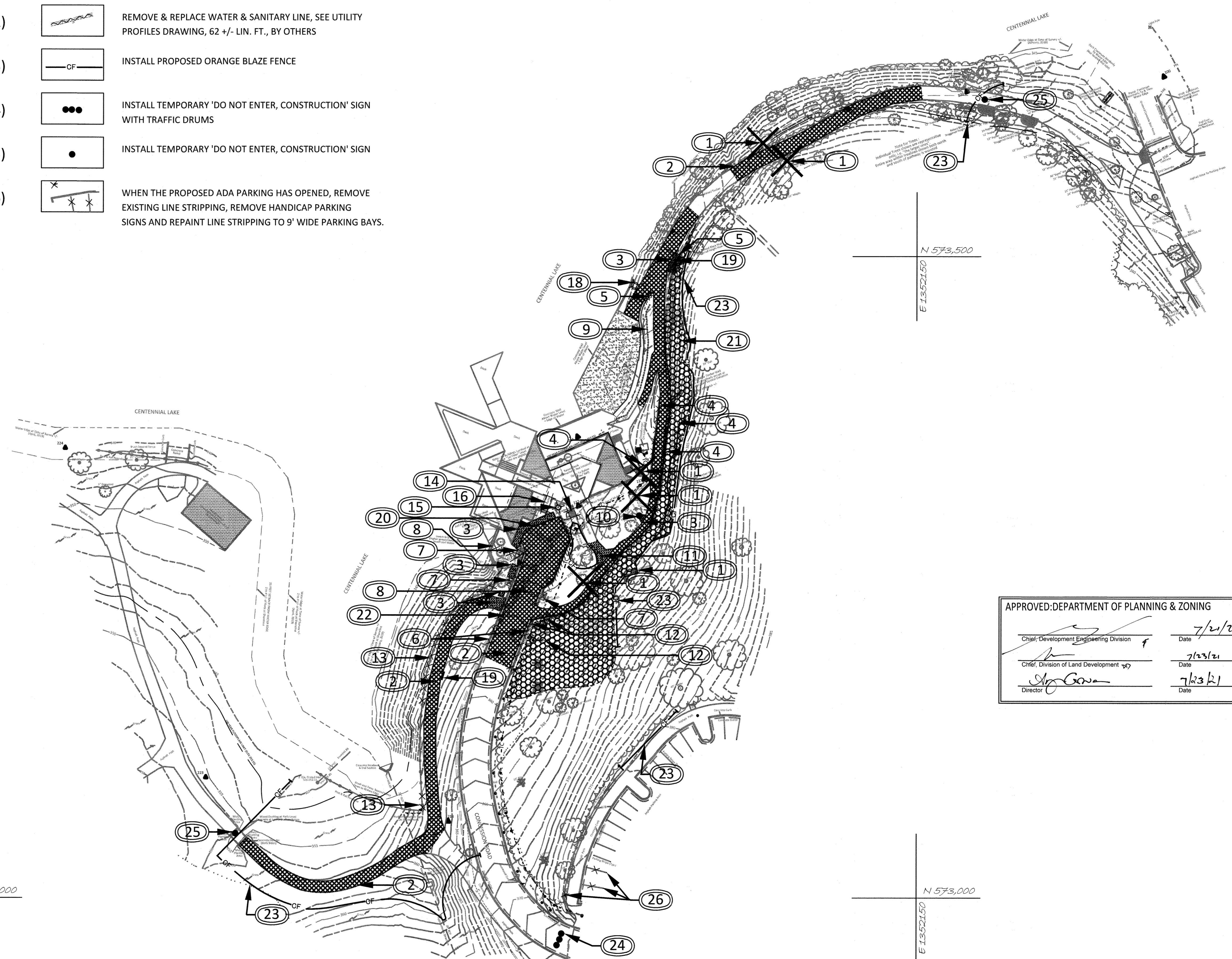
APPROVED: DEPARTMENT OF PLANNING & ZONING	
	7/21/21 Date
	7/23/21 Date
	7/23/21 Date

EXISTING CONDITIONS PLAN
Centennial Park
 ADA IMPROVEMENTS - BOAT HOUSE AREA
 10,000 CLARKSVILLE PIKE, ELLICOTT CITY, MARYLAND 21042 ZONING: R-20 ELEC. DIST.: 1
 A) MAP 30 GRID 7 PARCEL 9 L.F. 464/78 TAX ACCOUNT: 2-223082, 137.53 ACRES
 B) MAP 30 GRID 2 PARCEL 10 L.F. 885/76 TAX ACCOUNT: 2-218690, 104.36 ACRES
 OWNER: HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS JULY 7, 2021 SHEET 83 OF 109

DEMOLITION NOTES

- | NO. | SYMBOL | NOTE |
|-----|--------|---|
| 1) | | REMOVE EXISTING TREE |
| 2) | | AFTER SEDIMENT CONTROL MEASURES ARE INSTALLED, REMOVE EX. ASPHALT & BASE COURSE, SAWCUT FROM REMAINING PAVING |
| 3) | | REMOVE EXISTING CONCRETE AND BASE COURSE |
| 4) | | REMOVE EXISTING WOOD RETAINING WALL |
| 5) | | REMOVE EXISTING CONCRETE SEGMENTAL RETAINING WALL APPROXIMATELY 3 FEET DURING GRADING OPERATION |
| 6) | | REMOVE EXISTING CONCRETE CURB AND GUTTER TO NEAREST EXPANSION JOINT |
| 7) | | REMOVE EXISTING STORM DRAIN INLET STRUCTURE |
| 8) | | REMOVE EXISTING STORM DRAIN PIPE AND MANHOLE |
| 9) | | REMOVE EXISTING FENCE AND REINSTALL (BY OTHERS) N.I.C. |
| 10) | | REMOVE EXISTING WATER FOUNTAIN AND REINSTALL |
| 11) | | SAWCUT AND REMOVE EXISTING WOOD DECK BEYOND BOTTOM BEAM. |
| 12) | | REMOVE EXISTING SIGN |
| 13) | | REMOVE EXISTING WOOD FENCE TO LIMITS DIRECTED BY OWNER, FENCE ABOVE EXISTING RETAINING WALL TO REMAIN |
| 14) | | REMOVE EXISTING WOOD STEPS |
| 15) | | REMOVE EXISTING SHRUB |
| 16) | | REMOVE EXISTING WOOD RAMP |
| 17) | | REMOVE EXISTING WOOD CURB |
| 18) | | REMOVE AND REINSTALL EXISTING SIGN |
| 19) | | REMOVE AND REINSTALL EXISTING BENCH, SEE LAYOUT PLAN FOR LOCATION OR AS DIRECTED BY OWNER. |
| 20) | | REMOVE BOLLARDS AND FOOTINGS, SALVAGE BOLLARDS AND TRANSFER TO OWNER, QUANTITY: 3 |
| 21) | | REMOVE FOREST, 8,496 SQ. FT. |

- | | | |
|-----|--|---|
| 22) | | REMOVE & REPLACE WATER & SANITARY LINE, SEE UTILITY PROFILES DRAWING, 62 +/- LIN. FT., BY OTHERS |
| 23) | | INSTALL PROPOSED ORANGE BLAZE FENCE |
| 24) | | INSTALL TEMPORARY 'DO NOT ENTER, CONSTRUCTION' SIGN WITH TRAFFIC DRUMS |
| 25) | | INSTALL TEMPORARY 'DO NOT ENTER, CONSTRUCTION' SIGN |
| 26) | | WHEN THE PROPOSED ADA PARKING HAS OPENED, REMOVE EXISTING LINE STRIPPING, REMOVE HANDICAP PARKING SIGNS AND REPAINT LINE STRIPPING TO 9' WIDE PARKING BAYS. |



APPROVED: DEPARTMENT OF PLANNING & ZONING

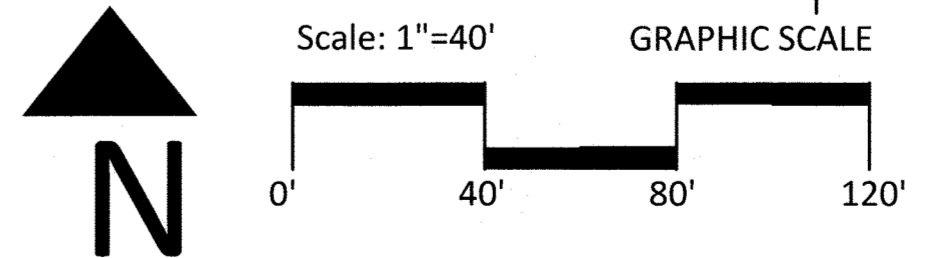
Chief, Development Engineering Division	Date 7/21/21
Chief, Division of Land Development	Date 7/23/21
Director	Date 7/23/21

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DESIGN PROFESSIONAL:
PAUL WALSKY
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7120 OAKLAND MILLS ROAD
COLUMBIA, MARYLAND 21046
TELEPHONE NUMBER: 410 313-1695

NO.	REVISION	DATE
2	ADA PARKING AND ADD SHEETS 82-109	MARCH 2021



DEMOLITION PLAN
Centennial Park
ADA IMPROVEMENTS - BOAT HOUSE AREA
10,000 CLARKSVILLE PIKE, ELLICOTT CITY, MARYLAND 21042 ZONING: R-20 ELEC. DIST.: 1
A) MAP 30 GRID 7 PARCEL 9 L.F.464/78 TAX ACCOUNT: 2-223082, 137.53 ACRES
B) MAP 30 GRID 2 PARCEL 10 L.F.885/76 TAX ACCOUNT: 2-218690, 104.36 ACRES
OWNER: HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS JULY 7, 2021 SHEET 84 OF 109

CENTENNIAL LAKE

PROPOSED ITEMS

- 1) PATHWAY PAVING, SEE DETAIL 2, SHEET 99
- 2) ROAD PAVING, SEE DETAIL 2, SHEET 99
- 3) BOARD-RAIL FENCE, SEE DETAIL 1, SHEET 98
- 4) SPLIT RAIL FENCE, SEE DETAIL 2, SHEET 98
- 5) ADA PARKING, SEE DETAIL 1, SHEET 97
- 6) 8 INCH THICK CONCRETE WALK, SEE DETAIL 2, SHEET 97 & DETAILS 1 & 5, SHEET 99
- 7) MODULAR CONCRETE PAVERS, SEE PAVES & PARKING AREA PART PLAN SEE DETAILS 3 & 6 SHEET 99 AND DETAIL SHEET 97
- 8) WOOD DECK & STAIRS, BY OTHERS, N.I.C.
- 9) BOAT YARD GATE, SEE DETAIL 3, SHEET 98
- 10) PATHWAY PAVING OVERLAY & WEDGE, 2 INCH MINIMUM THICKNESS SUPERPAVE PG-65-22S(ESAL), 2% MAXIMUM CROSS SLOPE
- 11) RETAINING WALL 'B', SEE SHEETS 101-109
- 12) RETAINING WALL 'A', SEE SHEETS 101-109
- 13) RELOCATE EXISTING WATER FOUNTAIN, SEE DETAIL 1, SHEET 97
- 14) SANITARY LINE, SEE PROFILE, SHEET 95
- 15) WATER LINE, SEE PROFILE, SHEET 95
- 16) CONCRETE CURB, SEE HO.CO. DPW DETAIL R-9.01
- 17) CONCRETE CURB, SEE HO.CO. DPW DETAIL R-3.03
- 18) 5 INCH THICK CONCRETE WALK, SEE DETAILS 1 & 4, SHEET 99
- 19) ADJUST WATER VALVE MANHOLE RIMS TO NEW ELEVATION, (QUANT.-2)
- 20) CONCRETE CURB, SEE HO.CO. DPW DETAIL 3.07
- 21) EXISTING RETAINING WALL TO BE REDUCED TO PROPOSED ELEVATIONS, ON NORTH END
- 22) PAINT LINE STRIPPING ON EXISTING PARKING LOT TO MATCH EXISTING.
- 23) RETAINING WALL, SEE GRADING & UTILITY PLAN, SHEET 87

MATCH LINE 'A' SHEET 86

LEGEND

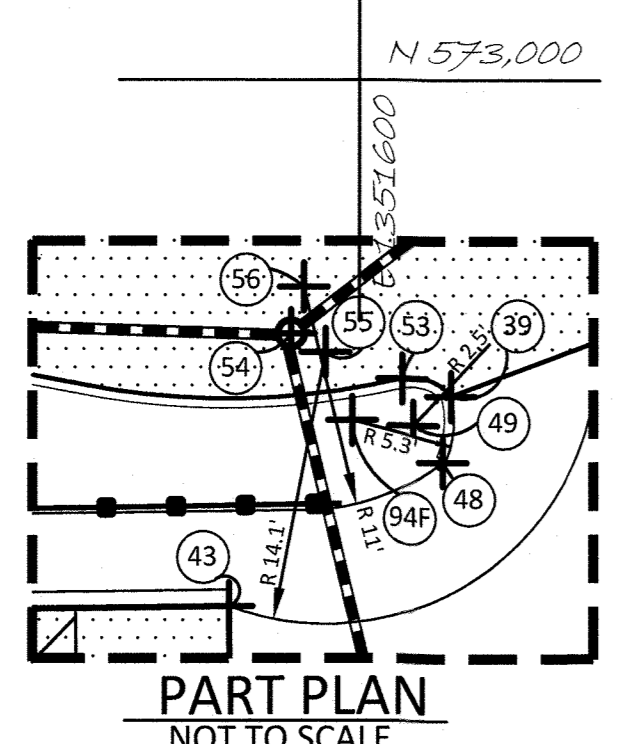
- EXISTING CURB
- EXISTING STRUCTURE
- EXISTING STORM DRAIN
- EXISTING WATER LINE & VALVE
- EXISTING SANITARY LINE
- EXISTING ELECTRIC LINE
- EXISTING TELE-COMMUNICATIONS LINE
- EXISTING FENCE
- LAKE LIMIT
- 100 YEAR FLOODPLAIN LIMIT
- PROPOSED PAVING
- PROPOSED PAVERS
- PROPOSED CONCRETE
- PROPOSED STAIRS AND DECK
- PROPOSED CONCRETE CURB
- PROPOSED STORM DRAIN LINE & INLET
- PROPOSED RETAINING WALL
- RELOCATION OF EX. WATER AND SANITARY LINES ELEVATION
- GEOMETRY POINT
- PROPOSED ITEM NUMBER

GEOMETRY TABLE

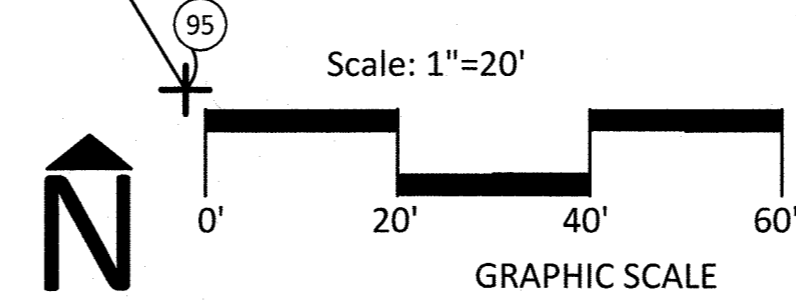
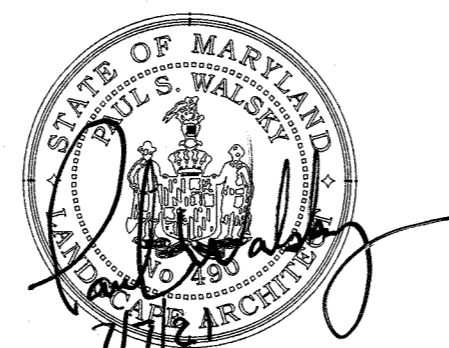
PT. NO.	NORTHING	EASTING	DESCRIPTION
1	572989.20	1351771.14	RADIUS
2	573028.05	1351747.84	PC
3	573034.33	1351767.40	PC
4	573038.26	1351789.81	RADIUS
5	573053.77	1351781.02	PC
6	573044.62	1351765.54	PC
7	573047.75	1351758.31	PC
8	573046.35	1351758.07	PC
9	573043.93	1351754.28	PC
10	573035.59	1351741.24	PC
11	573016.49	1351704.55	PC
12	573029.42	1351645.39	PC
13	573085.21	1351777.92	PC
14	573075.23	1351840.28	RADIUS
15	573066.78	1351751.95	RADIUS
16	573073.56	1351686.03	RADIUS
17	573135.39	1351665.97	RADIUS
18	573061.49	1351766.51	PC
19	573058.86	1351771.75	PC
20	573068.54	1351761.56	PC
21	573088.26	1351768.31	PC
22	573175.56	1351783.05	PC
23	573191.64	1351784.44	PC
24	573188.57	1351811.37	PC
25	573173.95	1351849.54	PT
26	573169.19	1351851.56	RADIUS
27	573178.18	1351833.49	PT
28	573182.30	1351834.91	INLET I-2
29	573187.40	1351836.66	PC
30	573183.12	1351843.28	RADIUS
31	573202.62	1351822.15	INLET I-3
32	573186.20	1351849.47	PT
33	573186.08	1351864.65	RADIUS
34	573174.35	1351892.55	PC
35	573173.95	1351894.45	RADIUS
36	573195.13	1351900.74	PT
37	573209.13	1351894.61	PT
38	573209.13	1351900.61	PT
39	573243.19	1351895.99	PC
40	573218.91	1351894.39	RADIUS
41	573221.56	1351893.46	INLET I-4
42	573219.00	1351884.60	PC
43	573232.26	1351884.43	PT
44	573231.89	1351856.43	PT
45	573231.74	1351848.57	RADIUS
46	573221.85	1351856.57	PC
47	573213.76	1351849.07	PC
48	573239.75	1351895.55	CURB END
49	573241.66	1351894.02	RADIUS
50	573243.55	1351907.54	RADIUS
51	573248.03	1351907.53	PC
52	573246.10	1351903.76	PC
53	573244.09	1351893.45	PC
54	573246.42	1351887.67	MANHOLE MH-2
55	573243.47	1351889.47	RADIUS
56	573248.86	1351888.34	RADIUS
57	573254.87	1351877.13	PC
58	573254.05	1351884.94	PC
59	573263.81	1351879.23	PC
60	573263.87	1351892.91	RADIUS
61	573256.62	1351896.17	PC
62	573270.23	1351897.73	PC
63	573272.19	1351895.15	PT
64	573275.55	1351892.70	PT
65	573279.11	1351907.09	RADIUS
66	573208.98	1351819.47	W & S LINE
67	573287.35	1351909.45	RADIUS
68	573278.31	1351918.48	PC
69	573286.99	1351926.83	PC
70	573283.04	1351884.35	RADIUS
71	573289.17	1351878.68	PT & DECK CORNER
72	573267.99	1351873.03	PC
73	573271.17	1351862.06	RADIUS
74	573279.83	1351859.48	RADIUS
75	573261.72	1351851.74	PC
76	573259.18	1351853.25	W & S LINE
77	573263.14	1351839.69	RADIUS
78	573273.56	1351845.91	PT
79	573271.36	1351841.26	PC
80	573278.47	1351834.41	PT
81	573241.98	1351845.78	PC
82	573251.87	1351843.75	PC
83	573248.30	1351828.03	PC
84	573211.39	1351801.52	MAN HOLE MH-1
85	573192.50	1351774.37	PC
86	573174.87	1351773.07	PC
87	573321.70	1351890.84	RADIUS
88	573295.05	1351855.54	PC
89	573296.83	1351859.66	RADIUS
90	573294.81	1351863.68	PT & DECK CORNER
91	573297.29	1351928.65	PT
92	573302.85	1351931.71	PT
93	573315.93	1351940.51	PC
94	573150.62	1351423.91	RADIUS
95	572955.76	1351801.46	RADIUS
96	573065.97	1351742.48	RADIUS
97	573179.16	1351834.92	RADIUS
98	573062.91	1351909.28	RADIUS
99	573282.13	1351897.41	RADIUS
100	573241.93	1351890.84	RADIUS
101	573067.85	1351740.25	RADIUS
102	573046.84	1351761.32	RADIUS
103	573059.21	1351768.71	RADIUS

NOTE FOR RETAINING WALL 'A' AND 'B' GEOMETRY SEE SHEET 101.

NO.	REVISION	DATE
2	ADA PARKING AND ADD SHEETS 82-109	MARCH 2021

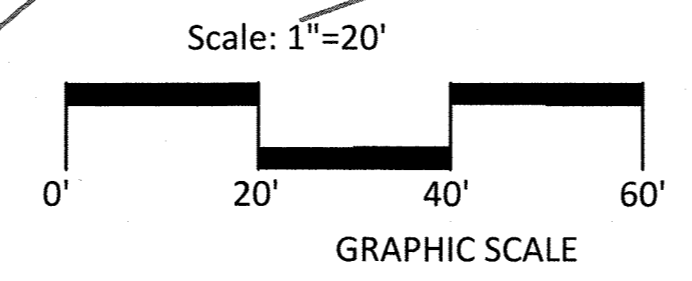
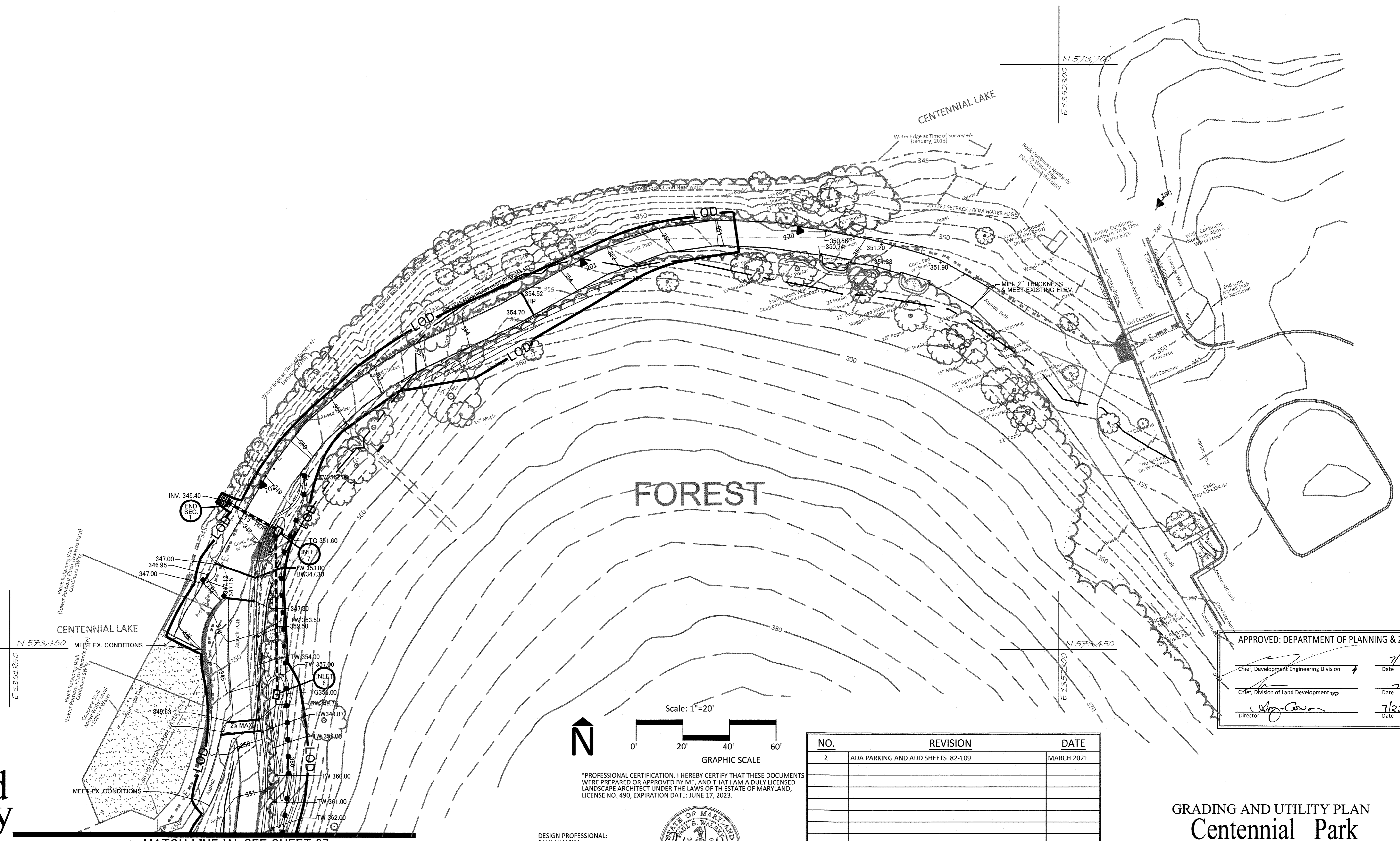


DESIGN PROFESSIONAL:
PAUL WALSKY
HOWARD CO. DEPT. OF REC. & PARKS
7120 OAKLAND MILLS ROAD
COLUMBIA, MARYLAND 21046
TELEPHONE NUMBER: 410 313-1695



LAYOUT AND GEOMETRY PLAN
Centennial Park
ADA IMPROVEMENTS - BOAT HOUSE AREA
10,000 CLARKSVILLE PIKE, ELLICOTT CITY, MARYLAND 21042 ZONING: R-20 ELEC. DIST.: 1
A) MAP 30 GRID 2 PARCEL 9 L.F. 464/78 TAX ACCOUNT: 2-223082, 137.53 ACRES
B) MAP 30 GRID 2 PARCEL 10 L.F. 885/76 TAX ACCOUNT: 2-218690, 104.36 ACRES
OWNER: HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS JULY 7, 2021 SHEET 85 OF 109

APPROVED: DEPARTMENT OF PLANNING & ZONING
Chief-Development Engineering Division 7/16/24
Chief, Division of Land Development 7/23/22
Director 7/23/21



*PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 490, EXPIRATION DATE: JUNE 17, 2023.

DESIGN PROFESSIONAL:
PAUL WALSKY
HOWARD CO. DEPT. OF REC. & PARKS
7120 OAKLAND MILLS ROAD
COLUMBIA, MARYLAND 21046
TELEPHONE NUMBER: 410 313-1695



NO.	REVISION	DATE
2	ADA PARKING AND ADD SHEETS 82-109	MARCH 2021

APPROVED: DEPARTMENT OF PLANNING & ZONING

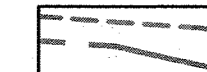




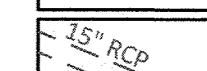

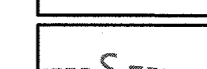


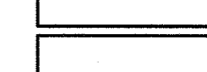
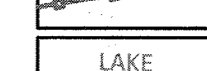

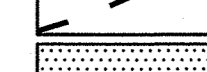




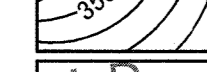

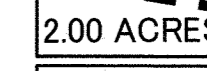
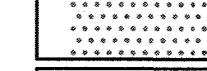
Chief, Development Engineering Division: *[Signature]* 7/4/21 Date

Chief, Division of Land Development: *[Signature]* 7/23/21 Date

Director: *[Signature]* 7/23/21 Date

GRADING AND UTILITY PLAN
Centennial Park
ADA IMPROVEMENTS - BOAT HOUSE AREA
10,000 CLARKSVILLE PIKE, ELLICOTT CITY, MARYLAND 21042 ZONING: R-20 ELEC. DIST.: 1
A) MAP 30 GRID 7 PARCEL 9 L.F.464/78 TAX ACCOUNT: 2-223082, 137.53 ACRES
B) MAP 30 GRID 2 PARCEL 10 L.F.885/76 TAX ACCOUNT: 2-218690, 104.36 ACRES
OWNER: HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS JULY 7, 2021 SHEET 88 OF 109

LEGEND

-  EXISTING CONTOUR
-  EXISTING CURB
-  EXISTING STRUCTURE
-  EXISTING TREE
-  EXISTING TREE LINE
-  EXISTING STORM DRAIN
-  EXISTING WATER LINE & VALVE
-  EXISTING SANITARY LINE
-  EXISTING ELECTRIC LINE
-  EXISTING TELE-COMMUNICATIONS LINE
-  EXISTING FENCE
-  LAKE LIMIT
-  100 YEAR FLOODPLAIN LIMIT
-  PROPOSED IMPERVIOUS (NON-CONCRETE)
-  PROPOSED CONCRETE
-  PROPOSED CONCRETE CURB
-  PROPOSED STORM DRAIN LINE & INLET
-  PROPOSED CONTOUR
-  SOILS TYPE
-  DRAINAGE AREA FOR SEDIMENT CONTROL
-  SLOPES BETWEEN 15 AND 25%
-  SLOPES GREATER THEN 25%

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division *[Signature]* 7/21/21
Date

Chief, Division of Land Development *[Signature]* 7/23/21
Date

Director *[Signature]* 7/23/21
Date

SEDIMENT CONTROL

Owners/Developer Certification:
"I/We hereby certify that any clearing, grading, construction, or development will be done pursuant to this approved erosion and sediment control plan, including inspecting and maintaining controls, and that the responsible personnel involved in the construction project will have a Certificate of Training at a Maryland Department of the Environment (MDE) approved training program for the control on erosion and sediment prior to beginning the project. I certify right-of-entry for periodic on-site evaluation by Howard County, the Howard Soil Conservation District and/or MDE."

[Signature] 7/1/2021
A. RAUL DELEPTE, DIRECTOR
Printed Name & Title

Design Certification:

"I hereby certify that this plan has been designed in accordance with current Maryland erosion and sediment control laws, regulations, and standards, that it represents a practical and workable plan based on my personal knowledge of the site, and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

[Signature] 7/1/21
PAUL WALSKY
Printed Name
MD Registration No. 4418
P.E., R.L.S., R.L.A. (Circle one)

Professional Certification:

"I hereby certify 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. 440, Expiration Date: 6/17/23

Howard SCD Signature Block:
This plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

[Signature] 7/13/21
Howard Soil Conservation District Date

Howard Soil conservation Dist. #GP-21-015

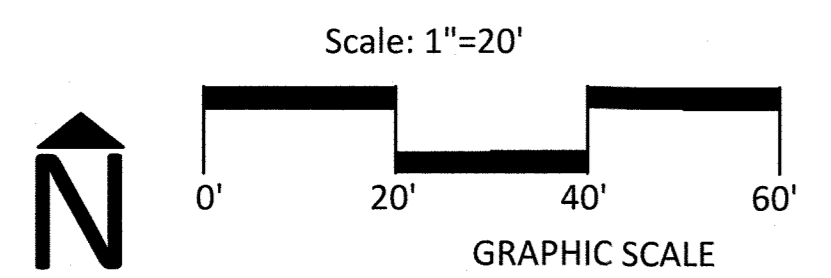
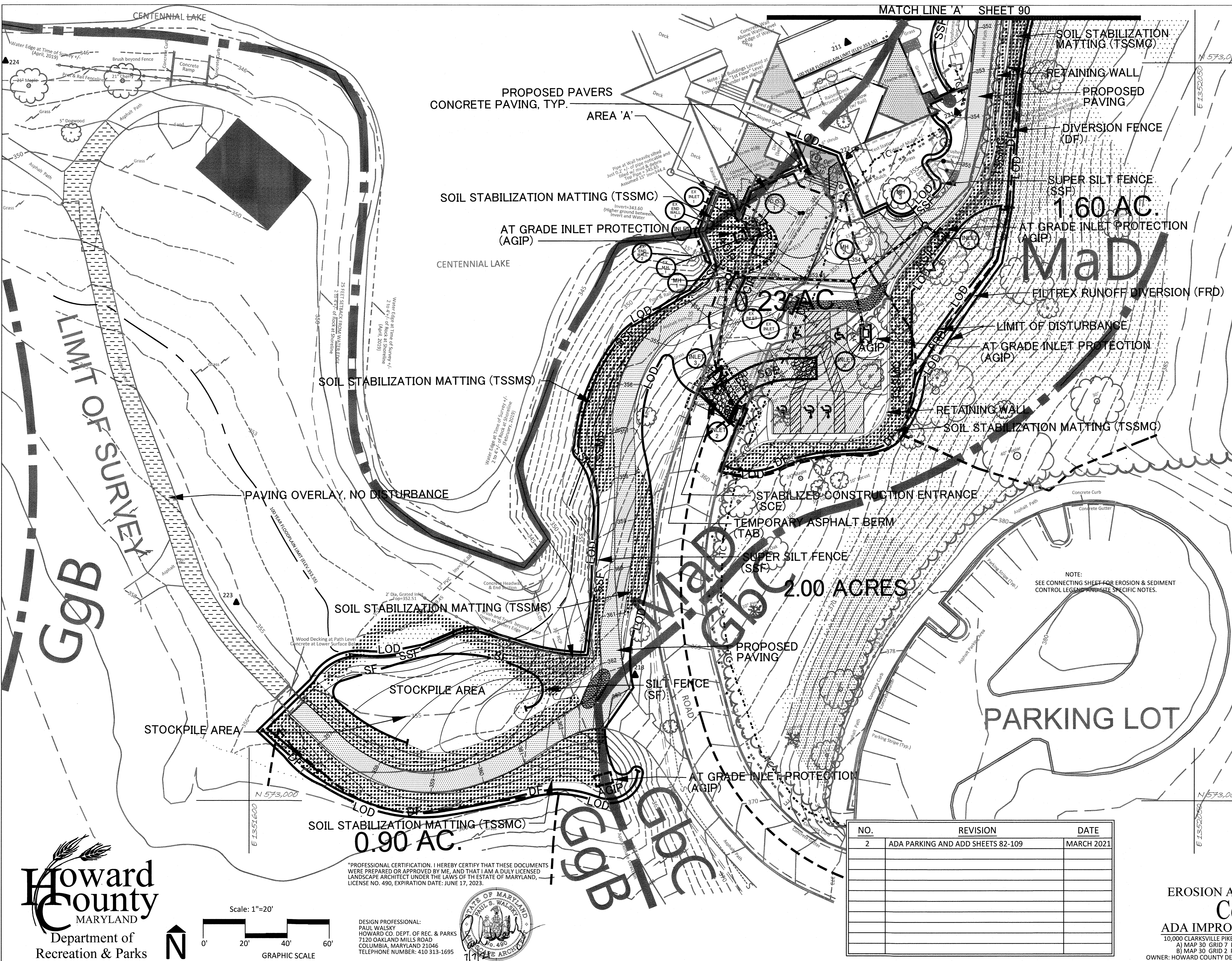
EROSION AND SEDIMENT CONTROL PLAN

Centennial Park

ADA IMPROVEMENTS - BOAT HOUSE AREA

10,000 CLARKVILLE PIKE, ELLICOTT CITY, MARYLAND 21042 ZONING: R-20 ELEC. DIST.: 1
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OWNER: HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS JULY 7, 2021 SHEET 89 OF 109

NO.	REVISION	DATE
2	ADA PARKING AND ADD SHEETS 82-109	MARCH 2021



DESIGN PROFESSIONAL:
PAUL WALSKY
HOWARD CO. DEPT. OF REC. & PARKS
7120 OAKLAND MILLS ROAD
COLUMBIA, MARYLAND 21046
TELEPHONE NUMBER: 410 313-1695



SEDIMENT CONTROL LEGEND

	SUPER SILT FENCE		TEMPORARY ASPHALT BERM
	SILT FENCE		STONE CHECK DAM
	DIVERSION FENCE		PERMANENT SOIL STABILIZATION MATTING CHANNEL
	FILTER LOG DIVERSION		PERMANENT SOIL STABILIZATION MATTING SLOPE
	LIMIT OF DISTURBANCE		SOILS LIMIT
	STABILIZED CONSTRUCTION ENTRANCE		DRAINAGE AREA FOR SEDIMENT CONTROL
	AT GRADE INLET PROTECTION		SLOPES BETWEEN 15 - 25%
	CURB INLET PROTECTION		SLOPES GREATER THEN 25%

SOILS LEGEND

SYMBOL	NAME / DESCRIPTION	GROUP	'K' FACTOR
GbC	Gladstone Loam, 8-15% slopes	A	-
GgB	Gladstone-Urban land complex, 0-8% slopes	B	-
GmB	Glenville silt loam, 3-8% slopes	C,D	0.32
MaD	Manor loam, 15% slopes	B	0.37

SEQUENCE OF CONSTRUCTION (S.O.C.)

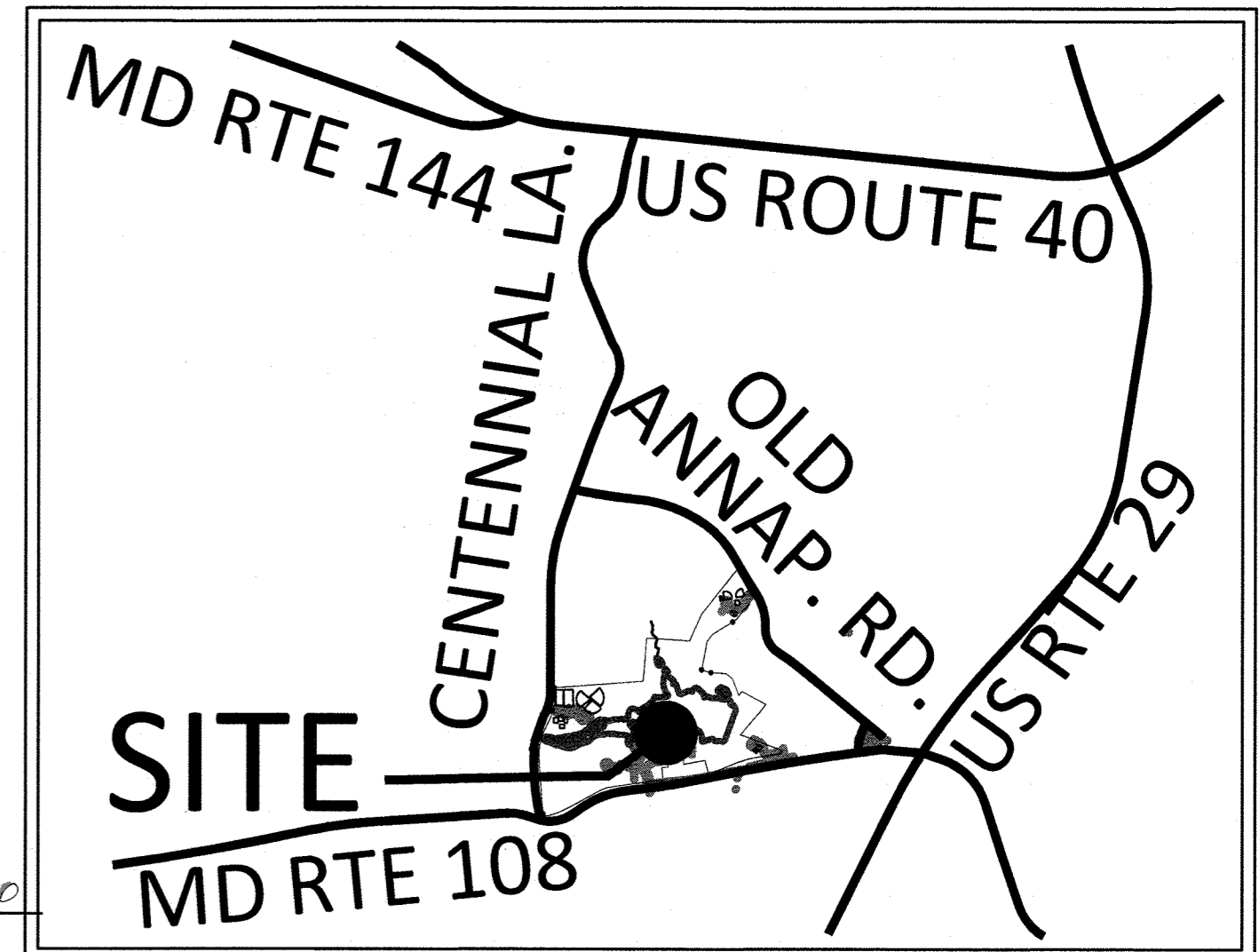
- OBTAIN GRADING PERMIT. -1 DAY
- NOTIFY HOWARD COUNTY CID EROSION CONTROL INSPECTOR TO SET PRE-CONSTRUCTION MEETING AT THE SITE PRIOR TO THE START OF WORK. -1 DAY
- WITH THE APPROVAL OF THE EROSION CONTROL INSPECTOR, INSTALL ALL SEDIMENT CONTROL MEASURES INCLUDING SILT FENCE, SUPER SILT FENCE, DIVERSION FENCE, DIVERSION FILTER LOG, AT-GRADE INLET PROTECTION AND COMBINATION INLET PROTECTION. DO NOT INSTALL STABILIZED CONSTRUCTION ENTRANCE AND ASPHALT BERM. INSTALL ORANGE BLAZE FENCE, SEE DEMOLITION PLAN FOR LOCATION. -6 DAYS
- WITH THE APPROVAL OF THE EROSION CONTROL INSPECTOR AND NO FORECAST OF A RAIN EVENT FOR THREE DAYS, INSTALL INLET I-2, I-3, MANHOLE MH-1 AND PIPES. REMOVE EXISTING INLET I-2 AND INLET I-3. -2 DAYS
- INSTALL STABILIZED CONSTRUCTION ENTRANCE AND TEMPORARY ASPHALT BERM. -2 DAY
- BLOCK THE GRATES TO EXISTING INLET 2 AND 3. -1 DAY
- WITH THE APPROVAL OF THE EROSION CONTROL INSPECTOR, CLEAR AND GRUB SITE. -5 DAYS
- REMOVE EXISTING PAVING AND STONE BASE AND DEMOLISH ALL REQUIRED ITEMS EXCEPT EXISTING INLET 1. REMOVE INLET 1 CURB AND TOP MAN HOLE. -5 DAYS
- REMOVE EXISTING INLET 2 AND EXISTING INLET 3. -5 DAYS
- MASS GRADE SITE AND EXCEPT IN AREA 'A'. -5 DAYS
- ALLOW UTILITY CONTRACTOR TO REMOVE AND INSTALL EXISTING WATER AND SANITARY LINES. -5 DAYS
- INSTALL INLETS I-4, STRUCTURES MH-2 AND MH-3, AND ALL PIPES THAT CONNECT TO EXISTING ENDWALL NO.2. -5 DAYS
- INSTALL INLET PROTECTION FOR I-4. -1 DAY
- CONSTRUCT END SECTION ES-1 AND PIPE TO INLET I-7 LOCATION AND BLOCK PIPE ENTRANCE. -1 DAY
- BEGIN CONSTRUCTION OF RETAINING WALLS FROM NORTH END NEAR INLET I-7 TOWARD THE SOUTH. WHEN THE WALLS ARE COMPLETE IMMEDIATELY STABILIZE THE ABOVE SLOPES, INSTALL INLETS (I-7, I-6 AND I-5), AND THEIR INLET PROTECTION. -15 DAYS
- COMPLETE ALL PAVING, CONCRETE, PAVERS, MULCH AND REMAINING UNSTABILIZED AREAS EXCEPT AREA 'A'. -15 DAYS
- WITH NO FORECAST OF RAIN FOR 3 DAYS REMOVE EXISTING MANHOLE 1 EXISTING INLET 1. CONSTRUCT I-1, CLEANOUT I AND ASSOCIATED STORM DRAIN SYSTEM. COMPLETE AREA 'A' GRADING. -5 DAYS
- PERMANENTLY STABILIZE ALL REMAINING AREAS WITHIN THE LIMIT OF DISTURBANCE. -3 DAYS
- WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR REMOVE ALL SEDIMENT CONTROL MEASURES. -1 DAY

HOWARD SOIL CONSERVATION DISTRICT (HSCD) STANDARD SEDIMENT CONTROL NOTES

- A preconstruction meeting must occur with the Howard County Department of Public Works, Construction Inspection Division (CID), 410-313-1855 after the future LOD and protected areas are marked clearly in the field. A minimum of 48-hour notice to CID must be given at the following stages:
 - Prior to the start of earth disturbance.
 - Upon completion of the installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading.
 - Prior to the start of another phase of construction or opening of a nongrading area.
 - Prior to the removal or modification of sediment control practices.
 Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made. Other related state and federal permits shall be referenced, to ensure coordination and to avoid conflicts with this plan.
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, and revisions thereto.
- Following initial soil disturbance or re-disturbance, permanent or temporary stabilization is required within three (3) calendar days as to the surface of all perimeter controls, dikes, swales, ditches, perimeter slopes, and all slopes steeper than 3:1 horizontal to vertical (3:1); and seven (7) calendar days as to all other disturbed areas on the project site except for those areas under active grading.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for topsoil (Sec. B-4-2), permanent seeding (Sec. B-4-5), temporary seeding (Sec. B-4-4) and mulching (Sec. B-4-3). Temporary stabilization with mulch alone can only be applied between the fall and spring seeding dates if the grounds are frozen. Incremental stabilization (Sec. B-4-1) specifications shall be enforced in areas with >15' of cut and/or fill. Stockpiles (Sec. B-4-8) in excess of 20 ft. must be benched with stable outlet. All concentrated flow, steep slopes, and highly erodible areas shall receive soil stabilization matting (Sec. B-4-6).
- 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 CID.
 - Site Analysis:

Total Area of Site:	241.79 Acres
Area Disturbed:	0.99 Acres
Area to be roofed or paved:	0.40 Acres
Area to be vegetatively stabilized:	0.59 Acres
Total Cut:	2000 Cu. Yds. (for estimating only)
Total Fill:	2000 Cu. Yds. (for estimating only)

 Offsite waste/borrow area location:
 - Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
 - Additional sediment control must be provided, if deemed necessary by the CID. The site and all controls shall be inspected by the contractor weekly, and the next day after each rain event. A written report by the contractor, made available upon request, is part of every inspection and should include:
 - Inspection date
 - Inspection type (routine, pre-storm event, during rain event)
 - Name and title of inspector
 - Weather information (current conditions as well as time and amount of last recorded precipitation)
 - Brief description of project's status (e.g., percent complete) and/or current activities
 - Evidence of sediment charges
 - Identification of deficiencies
 - Identification of sediment controls that require maintenance
 - Identification of missing or improperly installed sediment controls
 - Compliance status regarding the sequence of construction and stabilization requirements
 - Photographs
 - Monitoring/sampling
 - Maintenance and/or corrective action performed
 - Other inspection items as required by the General Permit for Stormwater Associated with Construction Activities (NPDES, MDE).



- EROSION & SEDIMENT CONTROL SITE SPECIFIC NOTES**
- THE PATHWAY AND ENTRANCE ROAD WILL BE CLOSED DURING CONSTRUCTION EXCEPT FOR EMERGENCY ACCESS.
 - SOIL STABILIZATION MATTING SHALL BE EASTCOSTEROSION.COM ECS2B DOUBLE NET STRAW BIODEGRADABLE ROLLED EROSION CONTROL PRODUCT OR APPROVED EQUAL.
 - ALL SLOPES SHALL NOT EXCEED 3:1 UNLESS INDICATED.
 - ALL RIP-RAP SHALL BE BLUE-GRAY FROM SAVAGE QUARRY. SEE DEMOLITION PLAN FOR ORANGE BLAZE FENCE LOCATION.
 - ALL EXISTING INLETS SHALL HAVE INLET PROTECTION WHEN PROJECT BEGINS (S.O.C. #3) AND ALL PROPOSED INLETS SHALL HAVE PROTECTION IMMEDIATELY AFTER THEY ARE INSTALLED.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division: *[Signature]* 7/1/21
Date: 7/1/21

Chief, Division of Land Development: *[Signature]* 7/1/21
Date: 7/1/21

Director: *[Signature]* 7/1/21
Date: 7/1/21

Owners/Developer Certification:

"I/We hereby certify that any clearing, grading, construction, or development will be done pursuant to this approved erosion and sediment control plan, including inspecting and maintaining controls, and that the responsible personnel involved in the construction project will have a Certificate of Training at a Maryland Department of the Environment (MDE) approved training program for the control on erosion and sediment prior to beginning the project. I certify right-of-entry for periodic on-site evaluation by Howard County, the Howard Soil Conservation District and/or MDE."

[Signature] 7/1/21
Date: 7/1/21
A. PAUL DELORME, DIRECTOR
Printed Name & Title

Design Certification:

"I hereby certify that this plan has been designed in accordance with current Maryland erosion and sediment control laws, regulations, and standards, that it represents a practical and workable plan based on my personal knowledge of the site, and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

[Signature] 7/1/21
Date: 7/1/21
PAUL WALSKY
Printed Name
MD Registration No. 01674
P.E., R.L.S., of R.L.A. (2/circle one)

Professional Certification:

"I hereby certify these documents were prepared or approved by me, and that I am a duly licensed Landscape Architect under the laws of the State of Maryland,

License No. 490, Expiration Date: 6/17/23
(Title block, certification, seal, and signature shall appear close to each other)

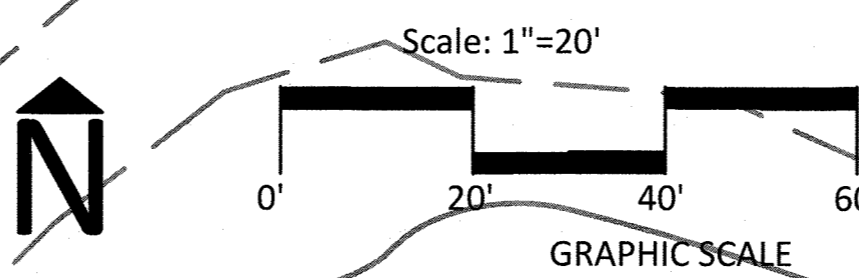
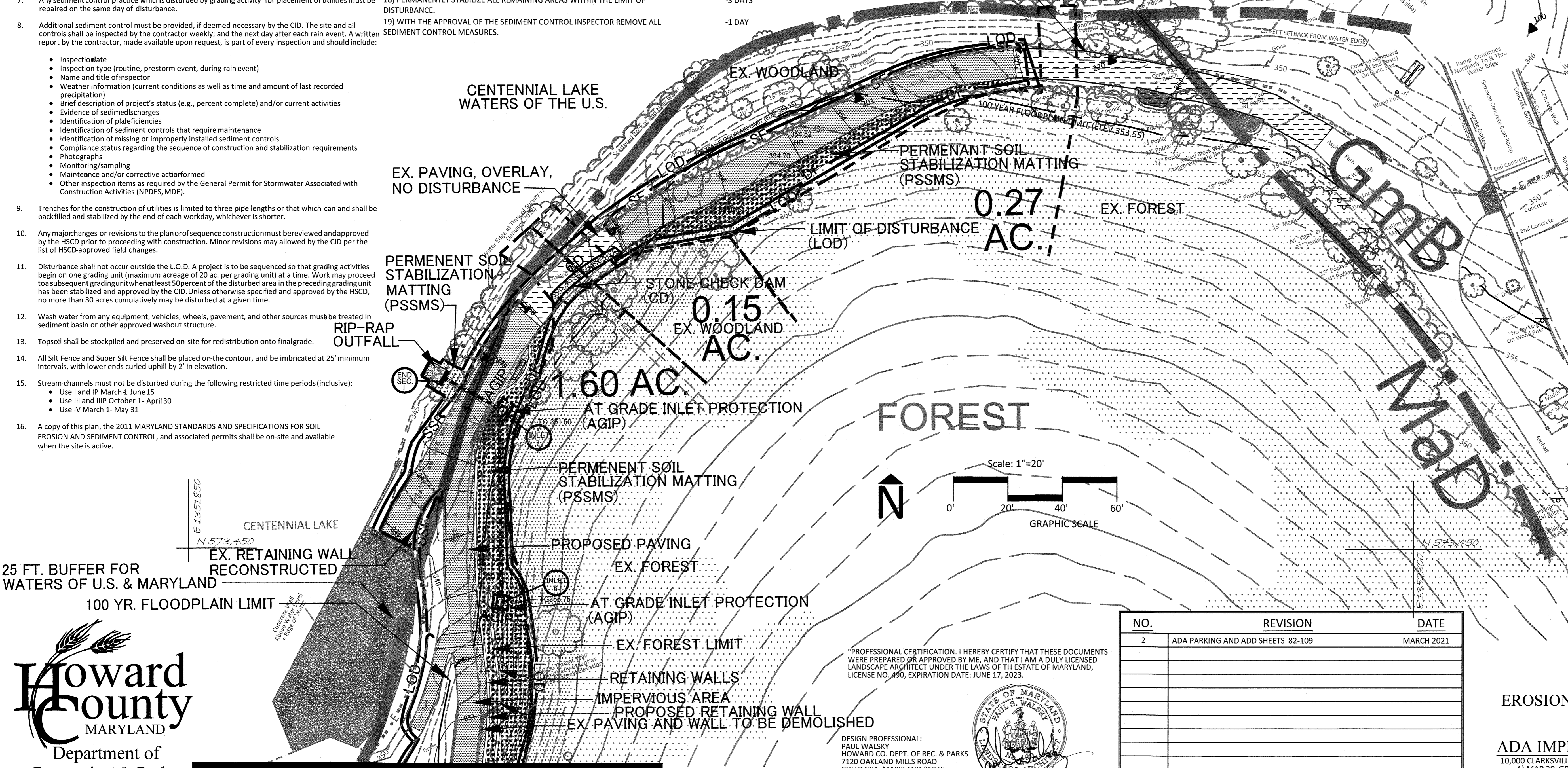
Howard SCD Signature Block:

This plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

[Signature] 7/1/21
Date: 7/1/21
Howard Soil Conservation District

Howard Soil Conservation Dist. #GP-21-015

OVERLAY EX. PAVING, NO DISTURBANCE



PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 490, EXPIRATION DATE: JUNE 17, 2023.

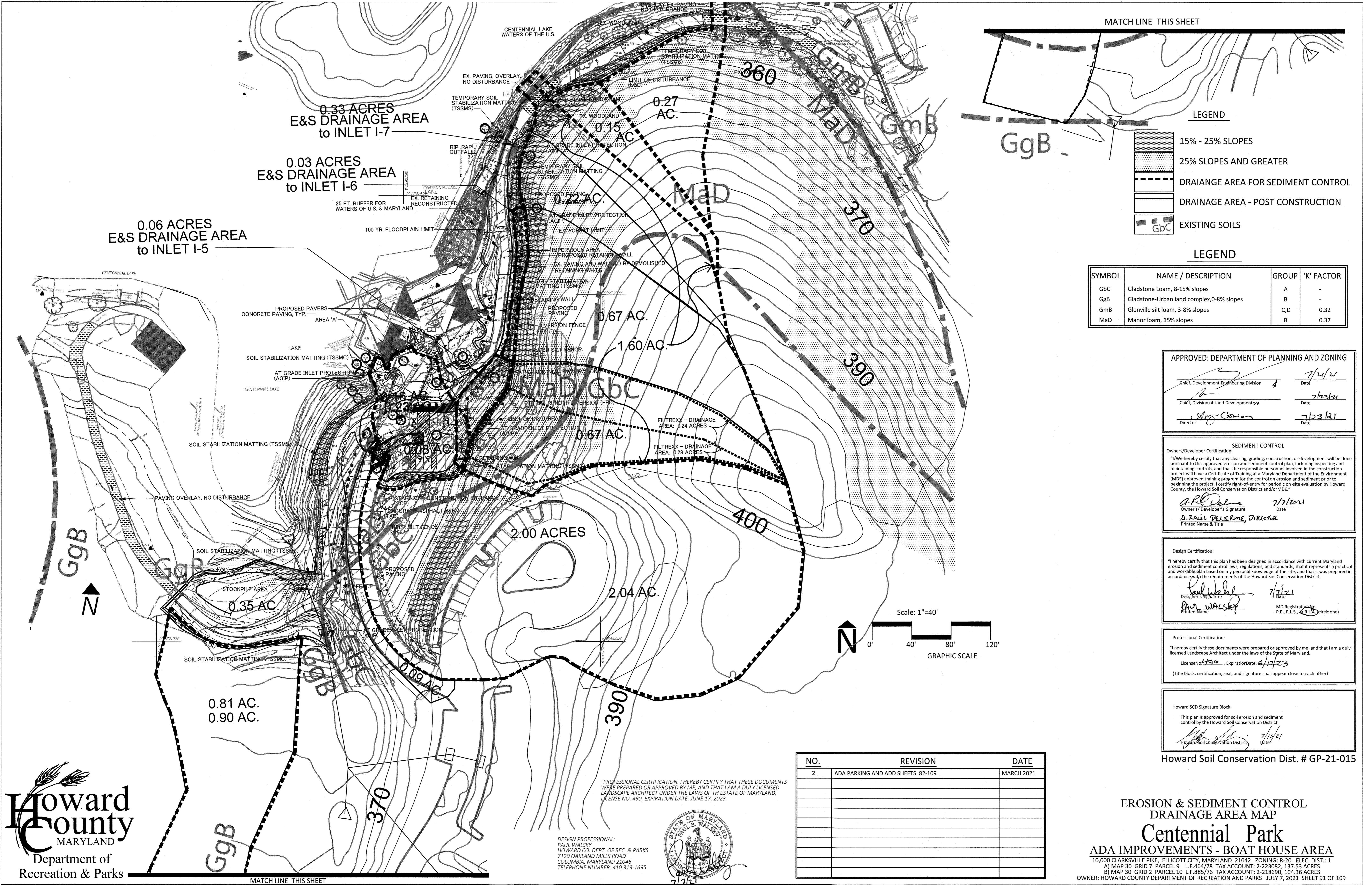
DESIGN PROFESSIONAL:
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HOWARD CO. DEPT. OF REC. & PARKS
7120 OAKLAND MILLS ROAD
COLUMBIA, MARYLAND 21046
TELEPHONE NUMBER: 410 313-1695



NO.	REVISION	DATE
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EROSION AND SEDIMENT CONTROL PLAN
Centennial Park
ADA IMPROVEMENTS - BOAT HOUSE AREA
10,000 CLARKVILLE PIKE, ELLICOTT CITY, MARYLAND 21042 ZONING: R-20 ELEC. DIST.: 1
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OWNER: HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS JULY 7, 2021 SHEET 90 OF 109



MATCH LINE THIS SHEET

LEGEND

- 15% - 25% SLOPES
- 25% SLOPES AND GREATER
- DRAINAGE AREA FOR SEDIMENT CONTROL
- DRAINAGE AREA - POST CONSTRUCTION
- EXISTING SOILS

GgB

LEGEND

SYMBOL	NAME / DESCRIPTION	GROUP	'K' FACTOR
GbC	Gladstone Loam, 8-15% slopes	A	-
GgB	Gladstone-Urban land complex, 0-8% slopes	B	-
GmB	Glenville silt loam, 3-8% slopes	C,D	0.32
MaD	Manor loam, 15% slopes	B	0.37

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division: *[Signature]* 7/21/21 Date

Chief, Division of Land Development: *[Signature]* 7/23/21 Date

Director: *[Signature]* 7/23/21 Date

SEDIMENT CONTROL

Owner's/Developer Certification: "I/We hereby certify that any clearing, grading, construction, or development will be done pursuant to this approved erosion and sediment control plan, including inspecting and maintaining controls, and that the responsible personnel involved in the construction project will have a Certificate of Training at a Maryland Department of the Environment (MDE) approved training program for the control on erosion and sediment prior to beginning the project. I certify right-of-entry for periodic on-site evaluation by Howard County, the Howard Soil Conservation District and/or MDE."

[Signature] 7/12/21 Date
 Owner's/Developer's Signature
 A. RAUL DELERME, DIRECTOR
 Printed Name & Title

Design Certification:

"I hereby certify that this plan has been designed in accordance with current Maryland erosion and sediment control laws, regulations, and standards, that it represents a practical and workable plan based on my personal knowledge of the site, and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

[Signature] 7/12/21 Date
 Designer's Signature
 PAUL WALSKY
 Printed Name MD Registration No. 4490 P.E., R.L.S., & B.L.A. (circle one)

Professional Certification:

"I hereby certify these documents were prepared or approved by me, and that I am a duly licensed Landscape Architect under the laws of the State of Maryland, License No. 4490, Expiration Date: 6/17/23 (Title block, certification, seal, and signature shall appear close to each other)"

Howard SCD Signature Block:

This plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

[Signature] 7/19/21 Date
 Howard Soil Conservation District

Howard Soil Conservation Dist. # GP-21-015

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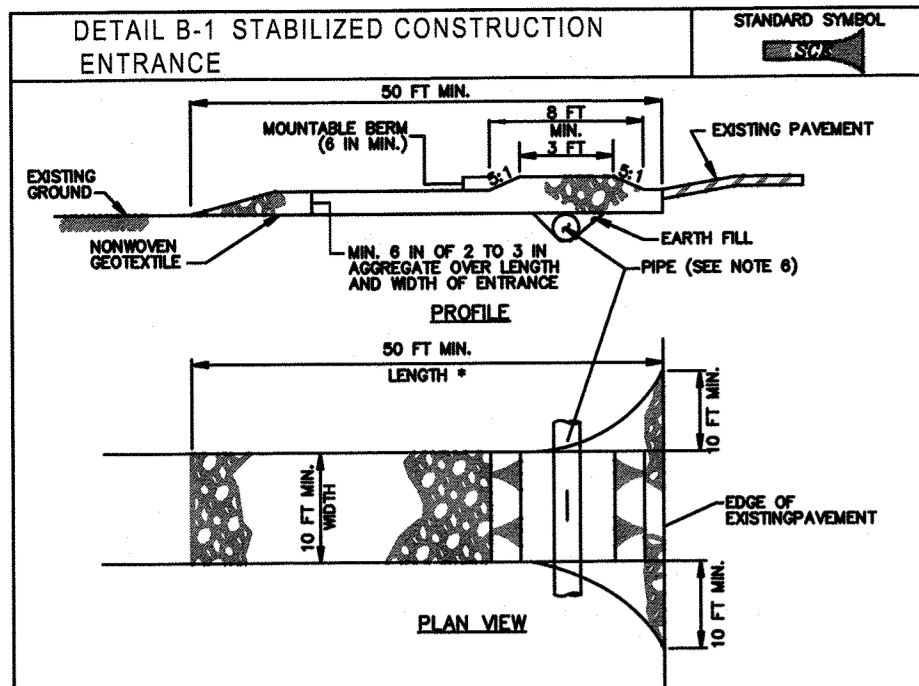


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DESIGN PROFESSIONAL:
 PAUL WALSKY
 HOWARD CO. DEPT. OF REC. & PARKS
 7120 OAKLAND MILLS ROAD
 COLUMBIA, MARYLAND 21046
 TELEPHONE NUMBER: 410 313-1695

STATE OF MARYLAND
 PAUL WALSKY
 7/12/21

EROSION & SEDIMENT CONTROL
 DRAINAGE AREA MAP
Centennial Park
 ADA IMPROVEMENTS - BOAT HOUSE AREA
 10,000 CLARKSVILLE PIKE, ELLICOTT CITY, MARYLAND 21042 ZONING: R-20 ELEC. DIST.: 1
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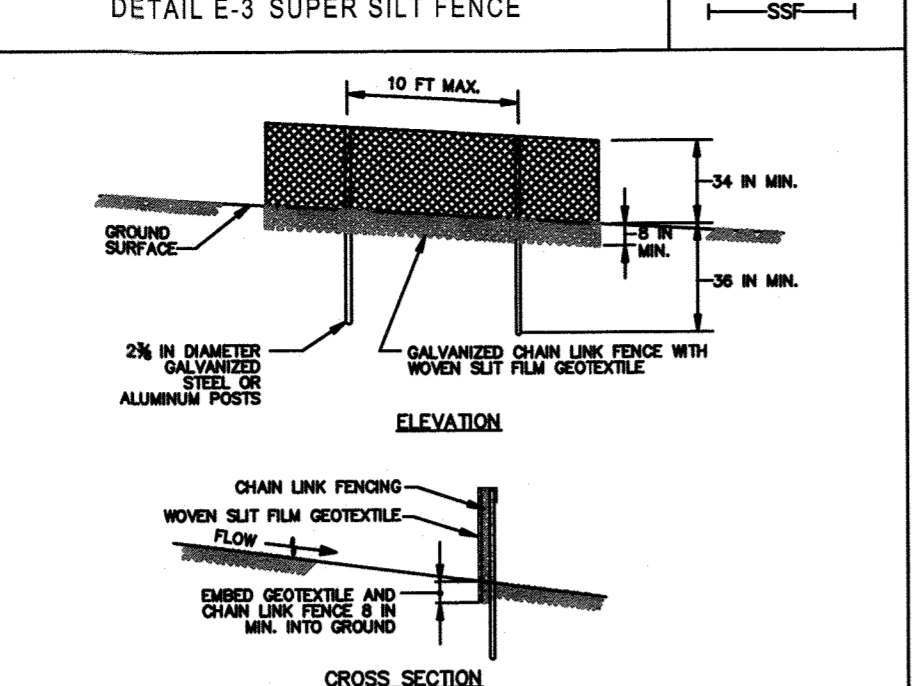


CONSTRUCTION SPECIFICATIONS

- INSTALL 2x4 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.063 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE GROUND.
- FASTEN 8 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2x4 INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS.
- FASTEN WOVEN SILT FILTER GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THE UPSIDE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND.
- WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 8 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASS.
- EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE.
- PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
- REMOVE ACCUMULATED SEDIMENT AND DEBRIS FROM SLOPES DEVELOPED IN SILT FENCE OR WHEN SEDIMENT REACHES 2 INCHES FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN, IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

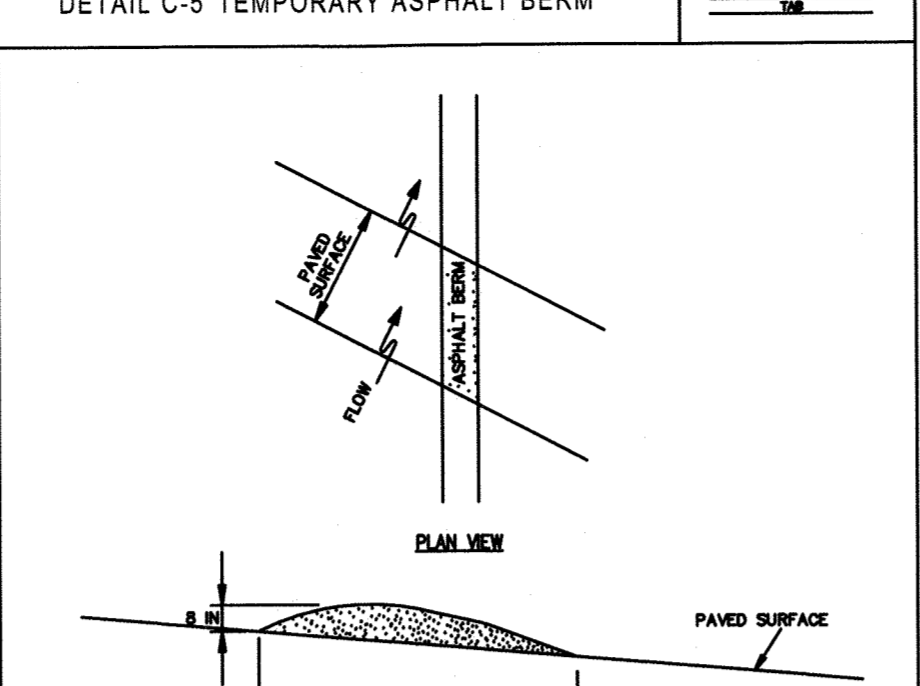


CONSTRUCTION SPECIFICATIONS

- INSTALL 2x4 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.063 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE GROUND.
- FASTEN 8 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2x4 INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS.
- FASTEN WOVEN SILT FILTER GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THE UPSIDE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND.
- WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 8 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASS.
- EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE.
- PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
- REMOVE ACCUMULATED SEDIMENT AND DEBRIS FROM SLOPES DEVELOPED IN SILT FENCE OR WHEN SEDIMENT REACHES 2 INCHES FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN, IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

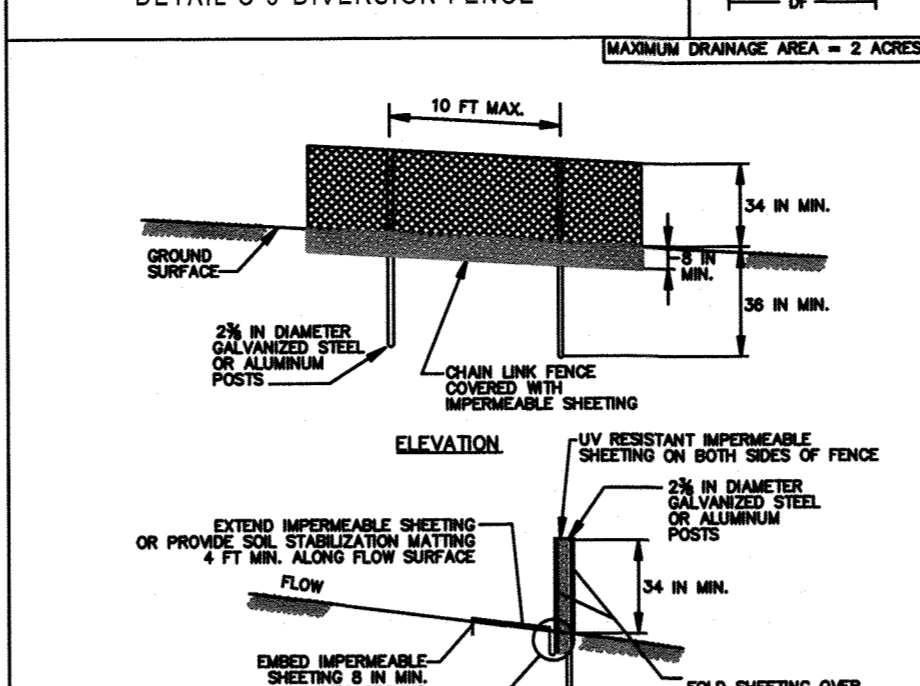


CONSTRUCTION SPECIFICATIONS

- CONSTRUCT BERM ON AN UNINTERRUPTED, CONTINUOUS GRADE.
- INSTALL BERM TO CONFORM TO CROSS SECTION DIMENSIONS OF A UNIFORM HEIGHT OF 8 INCHES MINIMUM AND APPROXIMATE WIDTH OF 36 FEET.
- PROVIDE OUTLET PROTECTION AS REQUIRED ON PLAN.
- COMPACT ASPHALT BERM.
- REPAIR DAMAGED ASPHALT. REMOVE ACCUMULATED SEDIMENT AND DEBRIS. MAINTAIN POSITIVE DRAINAGE.
- UPON REMOVAL OF ASPHALT BERM, RETURN TO ORIGINAL CONDITIONS OR AS SPECIFIED ON APPROVED PLAN.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

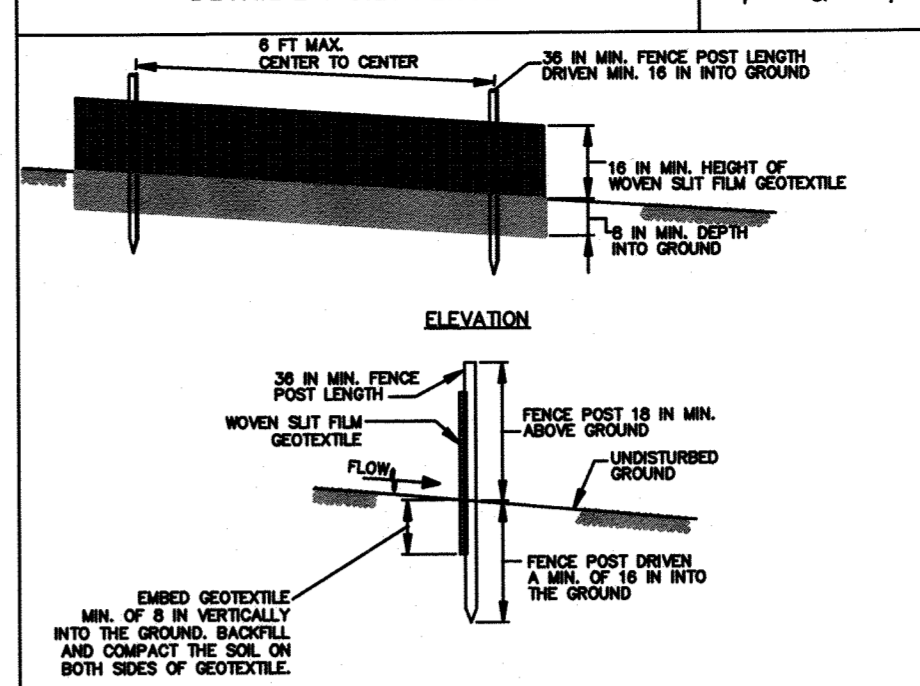


CONSTRUCTION SPECIFICATIONS

- USE 42 INCH HIGH, 8 GAUGE OR THICKER CHAIN LINK FENCING (2x4 INCH MAXIMUM OPENING) AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS NO FURTHER THAN 36 INCHES INTO THE GROUND.
- FASTEN CHAIN LINK FENCE SECURELY TO THE FENCE POSTS WITH WIRE TIES.
- SECURE 1/4 INCH OR THICKER UV RESISTANT, IMPERMEABLE SHEETING TO CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT TOP, MID SECTION, AND BELOW GROUND SURFACE.
- EXTEND SHEETING A MINIMUM OF 4 FEET ALONG FLOW SURFACE AND EMBED END A MINIMUM OF 8 INCHES INTO GROUND. SOIL STABILIZATION MATTING MAY BE USED IN LIEU OF IMPERMEABLE SHEETING ALONG FLOW SURFACE.
- WHERE TWO SECTIONS OF SHEETING ADJACENT EACH OTHER, OVERLAP BY 8 INCHES AND FOLD WITH SEAM FACING DOWNSTREAM.
- KEEP FLOW SURFACE ALONG DIVERSION FENCE AND POINT OF DISCHARGE FREE OF OBSTRUCTION. REMOVE ACCUMULATED SEDIMENT AND DEBRIS. MAINTAIN POSITIVE DRAINAGE. REPLACE IMPERMEABLE SHEETING IF TORN, IF UNDERMINING OCCURS, REINSTALL FENCE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

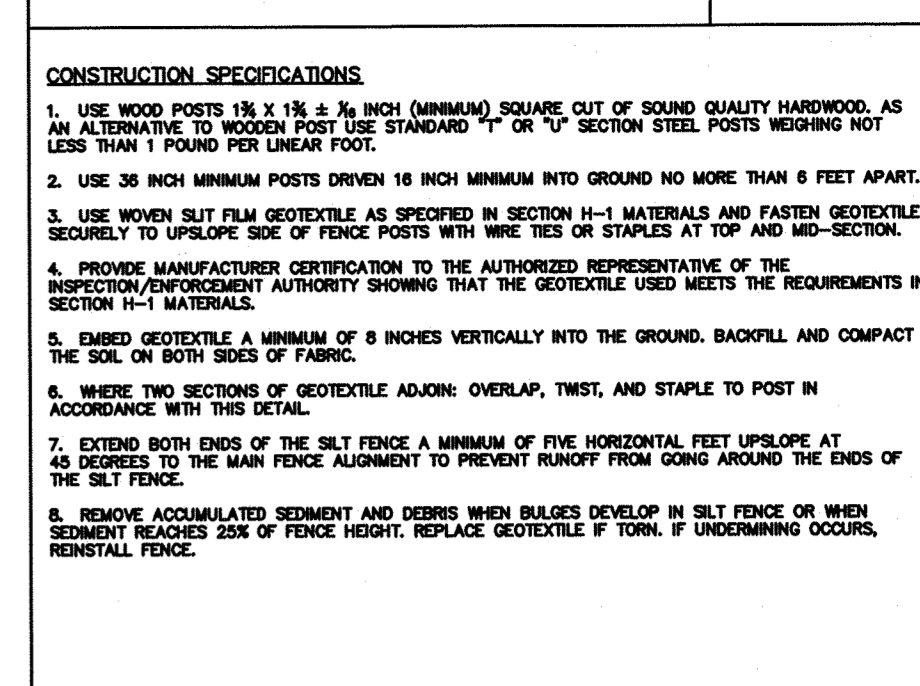


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- FASTEN CHAIN LINK FENCE SECURELY TO THE FENCE POSTS WITH WIRE TIES.
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- EXTEND SHEETING A MINIMUM OF 4 FEET ALONG FLOW SURFACE AND EMBED END A MINIMUM OF 8 INCHES INTO GROUND. SOIL STABILIZATION MATTING MAY BE USED IN LIEU OF IMPERMEABLE SHEETING ALONG FLOW SURFACE.
- WHERE TWO SECTIONS OF SHEETING ADJACENT EACH OTHER, OVERLAP BY 8 INCHES AND FOLD WITH SEAM FACING DOWNSTREAM.
- KEEP FLOW SURFACE ALONG DIVERSION FENCE AND POINT OF DISCHARGE FREE OF OBSTRUCTION. REMOVE ACCUMULATED SEDIMENT AND DEBRIS. MAINTAIN POSITIVE DRAINAGE. REPLACE IMPERMEABLE SHEETING IF TORN, IF UNDERMINING OCCURS, REINSTALL FENCE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

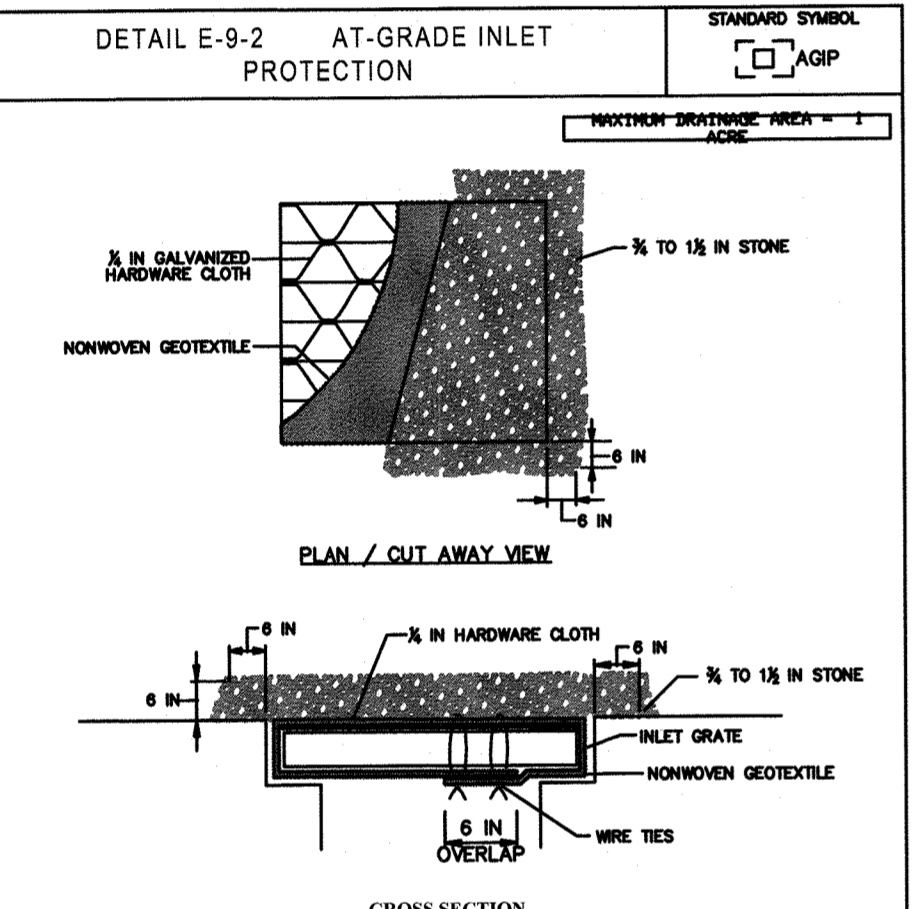


CONSTRUCTION SPECIFICATIONS

- USE 42 INCH HIGH, 8 GAUGE OR THICKER CHAIN LINK FENCING (2x4 INCH MAXIMUM OPENING) AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS NO FURTHER THAN 36 INCHES INTO THE GROUND.
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- WHERE TWO SECTIONS OF SHEETING ADJACENT EACH OTHER, OVERLAP BY 8 INCHES AND FOLD WITH SEAM FACING DOWNSTREAM.
- KEEP FLOW SURFACE ALONG DIVERSION FENCE AND POINT OF DISCHARGE FREE OF OBSTRUCTION. REMOVE ACCUMULATED SEDIMENT AND DEBRIS. MAINTAIN POSITIVE DRAINAGE. REPLACE IMPERMEABLE SHEETING IF TORN, IF UNDERMINING OCCURS, REINSTALL FENCE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

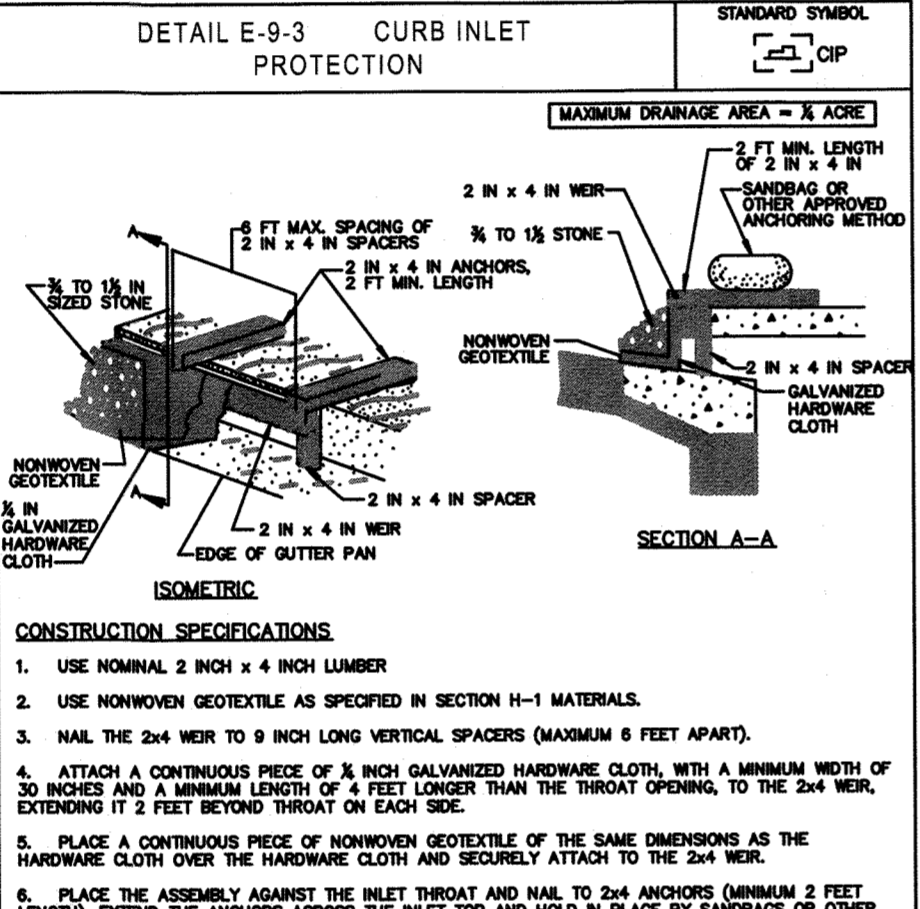


CONSTRUCTION SPECIFICATIONS

- USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.
- LIFT GRATE AND WEAR WITH NONWOVEN GEOTEXTILE TO COMPLETELY COVER ALL OPENINGS. SECURE WITH WIRE TIES AND SET GRATE BACK IN PLACE.
- PLACE CLEAN 3/4 TO 1 1/2 INCH STONE OR EQUIVALENT RECYCLED CONCRETE 6 INCHES THICK ON THE GRATE.
- STORM DRAIN INLET PROTECTION REQUIRES PRELUDE MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOSING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE GEOTEXTILE AND STONE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

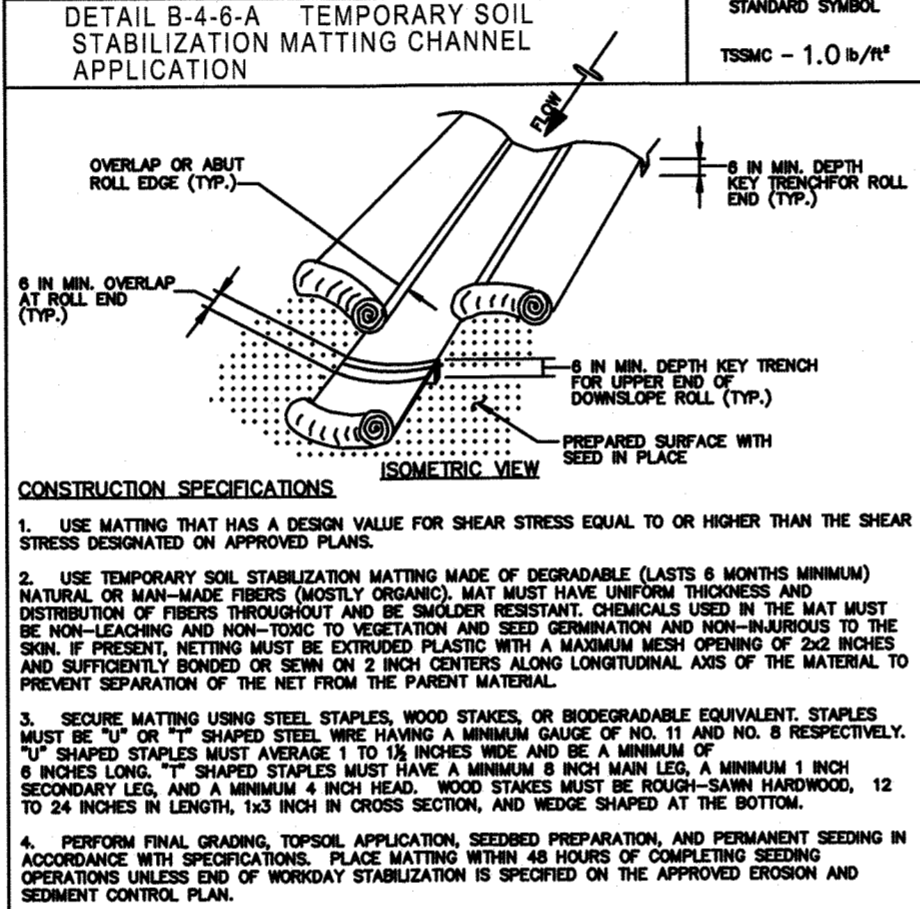


CONSTRUCTION SPECIFICATIONS

- USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS.
- INSTALL 2x4 INCH SPACERS A MINIMUM OF 1 FOOT BEYOND THE ENDS OF THE THROAT OPENING.
- FROM THE HARDWARE CLOTH AND THE GEOTEXTILE TO THE CONCRETE THROAT AND FACE OF CURB STONE OR EQUIVALENT RECYCLED CONCRETE.
- ATTACH THE ANCHORS AGAINST THE INLET TOP AND HOLD IN PLACE BY SANDWICH OR OTHER APPROVED ANCHORING METHOD.
- INSTALL END SPACERS A MINIMUM OF 1 FOOT BEYOND THE ENDS OF THE THROAT OPENING.
- FROM THE HARDWARE CLOTH AND THE GEOTEXTILE TO THE CONCRETE THROAT AND FACE OF CURB STONE OR EQUIVALENT RECYCLED CONCRETE.
- ATTACH THE ANCHORS AGAINST THE INLET TOP AND HOLD IN PLACE BY SANDWICH OR OTHER APPROVED ANCHORING METHOD.
- INSTALL END SPACERS A MINIMUM OF 1 FOOT BEYOND THE ENDS OF THE THROAT OPENING.
- FROM THE HARDWARE CLOTH AND THE GEOTEXTILE TO THE CONCRETE THROAT AND FACE OF CURB STONE OR EQUIVALENT RECYCLED CONCRETE.
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MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

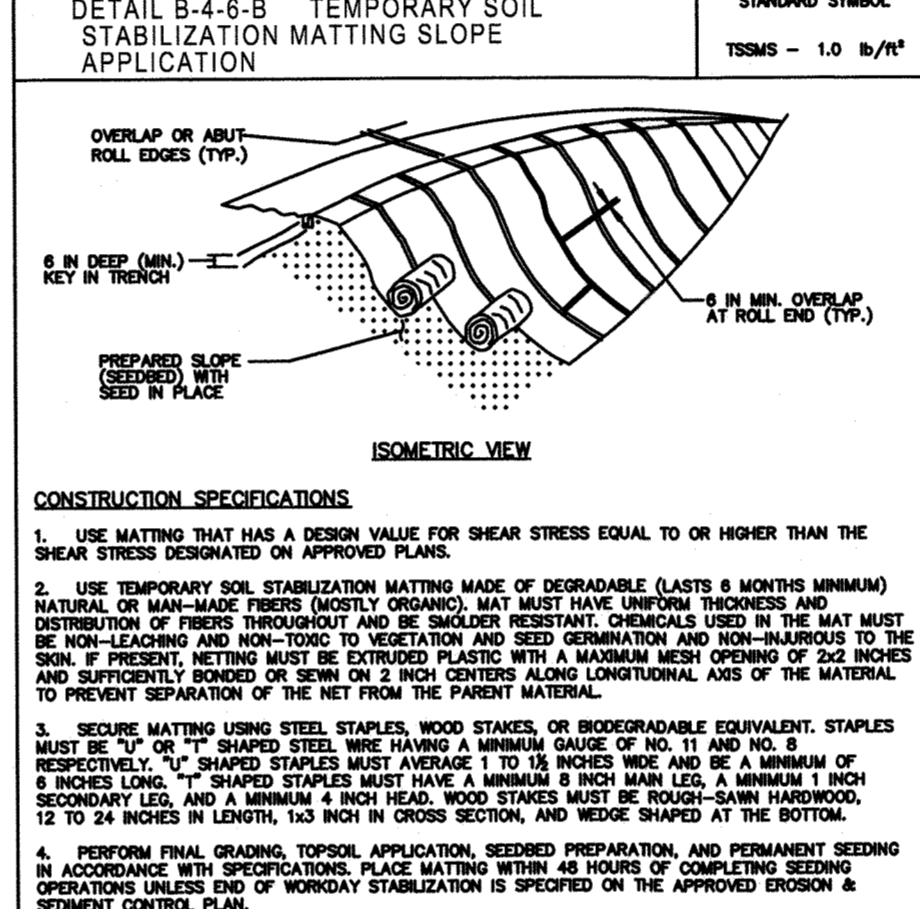


CONSTRUCTION SPECIFICATIONS

- USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DESIGNATED ON APPROVED PLANS.
- USE TEMPORARY SOIL STABILIZATION MATTING MADE OF DEGRADABLE (LASTS 6 MONTHS MINIMUM) NATURAL OR MAN-MADE FIBERS (MOSTLY ORGANIC). MAT MUST HAVE UNIFORM THICKNESS AND DISTRIBUTION OF FIBERS THROUGHOUT AND BE SMOOTHER RESISTANT. CHEMICALS USED IN THE MAT MUST BE NON-LEACHING AND NON-TOXIC TO VEGETATION AND SEED GERMINATION AND NON-HARMFUL TO THE SOIL. IF PRESENT, NETTING MUST BE EXTRUDED PLASTIC WITH A MAXIMUM MESH OPENING OF 2/32 INCHES AND SUFFICIENTLY BONDED OR SOWN ON 2 INCH CENTERS ALONG LONGITUDINAL AXIS OF THE MATERIAL TO PREVENT SEPARATION OF THE NET FROM THE PARENT MATERIAL.
- SECURE MATTING USING STEEL STAPLES, WOOD STAKES, OR BIODEGRADABLE EQUIVALENT. STAPLES MUST BE 1/4 OR 1/2 INCH SHARPENED STEEL WIRE HAVING A MINIMUM GAUGE OF NO. 11 AND NO. 8 RESPECTIVELY. 1/4 SHARPENED STEEL WIRE MUST AVERAGE 1 TO 1.5 INCHES LONG AND BE A MINIMUM OF 8 INCHES LONG. 1/2 SHARPENED STEEL WIRE MUST AVERAGE 1 TO 1.5 INCHES LONG AND BE A MINIMUM OF 12 TO 24 INCHES LONG. A MINIMUM OF 1 INCH HEAD. WOOD STAKES MUST BE ROUGH-SAWN HARDWOOD, 12 TO 24 INCHES IN LENGTH, 1 1/2 INCH IN CROSS SECTION, AND WEDGE SHAPED AT THE BOTTOM.
- PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDING PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH SPECIFICATIONS. PLACE MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATIONS UNLESS END OF WORKDAY STABILIZATION IS SPECIFIED ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
- UNROLL MATTING DOWN SLOPE. LAY MAT SMOOTHLY AND FIRMLY UPON THE SEEDING SURFACE. AVOID STRETCHING THE MATTING.
- KEY-IN UPSTREAM END OF EACH MAT ROLL BY DIGGING A 4 INCH (MAXIMUM) TRENCH AT THE UPSIDE END OF THE MATTING, PLACING THE ROLL ENDS IN THE TRENCH, STAPLING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL, AND TAMPING TO SECURE THE MAT END.
- OVERLAP OR ABUT THE ROLL EDGES PER MANUFACTURER RECOMMENDATIONS. OVERLAP ROLL EDGES BY 8 INCHES (MINIMUM), WITH THE UPSIDE MAT OVERLAPPING ON TOP OF THE NEXT DOWNSTREAM MAT.
- STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND 2 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL EDGES.
- ESTABLISH AND MAINTAIN VEGETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

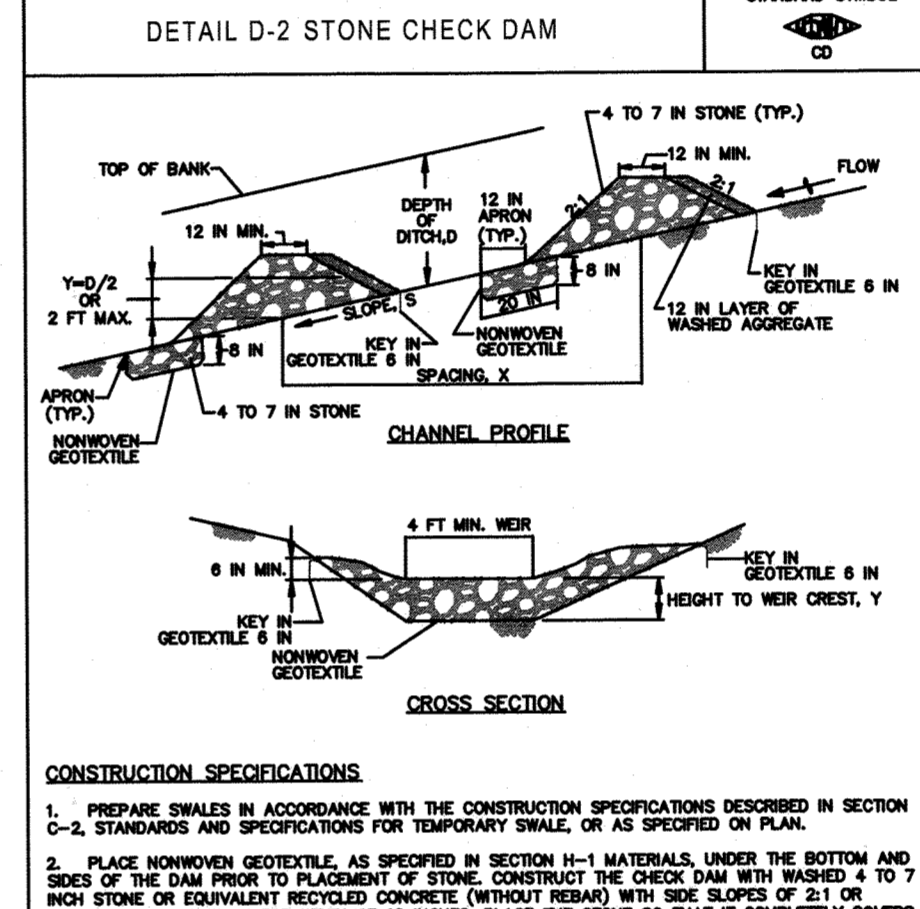


CONSTRUCTION SPECIFICATIONS

- USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DESIGNATED ON APPROVED PLANS.
- USE TEMPORARY SOIL STABILIZATION MATTING MADE OF DEGRADABLE (LASTS 6 MONTHS MINIMUM) NATURAL OR MAN-MADE FIBERS (MOSTLY ORGANIC). MAT MUST HAVE UNIFORM THICKNESS AND DISTRIBUTION OF FIBERS THROUGHOUT AND BE SMOOTHER RESISTANT. CHEMICALS USED IN THE MAT MUST BE NON-LEACHING AND NON-TOXIC TO VEGETATION AND SEED GERMINATION AND NON-HARMFUL TO THE SOIL. IF PRESENT, NETTING MUST BE EXTRUDED PLASTIC WITH A MAXIMUM MESH OPENING OF 2/32 INCHES AND SUFFICIENTLY BONDED OR SOWN ON 2 INCH CENTERS ALONG LONGITUDINAL AXIS OF THE MATERIAL TO PREVENT SEPARATION OF THE NET FROM THE PARENT MATERIAL.
- SECURE MATTING USING STEEL STAPLES, WOOD STAKES, OR BIODEGRADABLE EQUIVALENT. STAPLES MUST BE 1/4 OR 1/2 INCH SHARPENED STEEL WIRE HAVING A MINIMUM GAUGE OF NO. 11 AND NO. 8 RESPECTIVELY. 1/4 SHARPENED STEEL WIRE MUST AVERAGE 1 TO 1.5 INCHES LONG AND BE A MINIMUM OF 8 INCHES LONG. 1/2 SHARPENED STEEL WIRE MUST AVERAGE 1 TO 1.5 INCHES LONG AND BE A MINIMUM OF 12 TO 24 INCHES LONG. A MINIMUM OF 1 INCH HEAD. WOOD STAKES MUST BE ROUGH-SAWN HARDWOOD, 12 TO 24 INCHES IN LENGTH, 1 1/2 INCH IN CROSS SECTION, AND WEDGE SHAPED AT THE BOTTOM.
- PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDING PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH SPECIFICATIONS. PLACE MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATIONS UNLESS END OF WORKDAY STABILIZATION IS SPECIFIED ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
- UNROLL MATTING DOWN SLOPE. LAY MAT SMOOTHLY AND FIRMLY UPON THE SEEDING SURFACE. AVOID STRETCHING THE MATTING.
- OVERLAP OR ABUT ROLL EDGES PER MANUFACTURER RECOMMENDATIONS. OVERLAP ROLL EDGES BY 8 INCHES (MINIMUM), WITH THE UPSIDE MAT OVERLAPPING ON TOP OF THE DOWNSTREAM MAT.
- KEY IN THE UPSIDE END OF MAT 8 INCHES (MINIMUM) BY DIGGING A TRENCH, PLACING THE MATTING ROLL END IN THE TRENCH, STAPLING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL, AND TAMPING TO SECURE THE MAT END IN THE KEY.
- STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND 2 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL EDGES.
- ESTABLISH AND MAINTAIN VEGETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



CONSTRUCTION SPECIFICATIONS

- PREPARE DAMS IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS DESCRIBED IN SECTION C-2. STANDARDS AND SPECIFICATIONS FOR TEMPORARY STAKE, OR AS SPECIFIED ON PLAN.
- PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS, UNDER THE BOTTOM AND SIDES OF THE DAM PRIOR TO PLACEMENT OF STONE. CONSTRUCT THE CHECK DAM WITH WASHED 4 TO 7 INCH STONE OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) WITH SLOPE SIDES OF 2:1 OR FLATTER AND A MINIMUM TOP WIDTH OF 12 INCHES. PLACE THE STONE SO THAT IT COMPLETELY COVERS THE WIDTH OF THE CHANNEL AND CHANNEL BANKS FROM THE WEIR SO THAT TOP OF THE OUTLET CREST IS APPROXIMATELY 6 INCHES LOWER THAN THE OUTER EDGES. LINE THE UPSIDE FACE OF THE DAM WITH A 1 FOOT THICK LAYER OF WASHED AGGREGATE (3/4 TO 1 1/2 INCH).
- SET THE HEIGHT FOR THE WEIR CREST EQUAL TO ONE-HALF THE DEPTH OF THE CHANNEL OR DITCH. TO AVOID SCOUR, THE MAXIMUM HEIGHT OF THE WEIR CREST MUST NOT EXCEED 5.0 FEET.
- REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES ONE-HALF OF THE HEIGHT OF THE WEIR CREST. MAINTAIN LINE, GRADE, AND CROSS SECTION.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division 7/2/21

Chief, Division of Land Development 7/23/21

Director 7/23/21

Owners/Developer Certification:

"I hereby certify that any clearing, grading, construction, or development will be done pursuant to this approved erosion and sediment control plan, including inspecting and maintaining controls, and that the responsible personnel involved in the construction project will have a Certificate of Training at a Maryland Department of the Environment (MDE) approved training program for the control on erosion and sediment prior to beginning the project. I certify my entry for period on site evaluation by Howard County, the Howard Soil Conservation District and/or MDE."

A. Paul Pelegrine, Director

Design Certification:

"I hereby certify that this plan has been designed in accordance with current Maryland erosion and sediment control laws, regulations, and standards, that it represents a practical and workable plan based on my personal knowledge of the site, and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

Paul Walsky

Professional Certification:

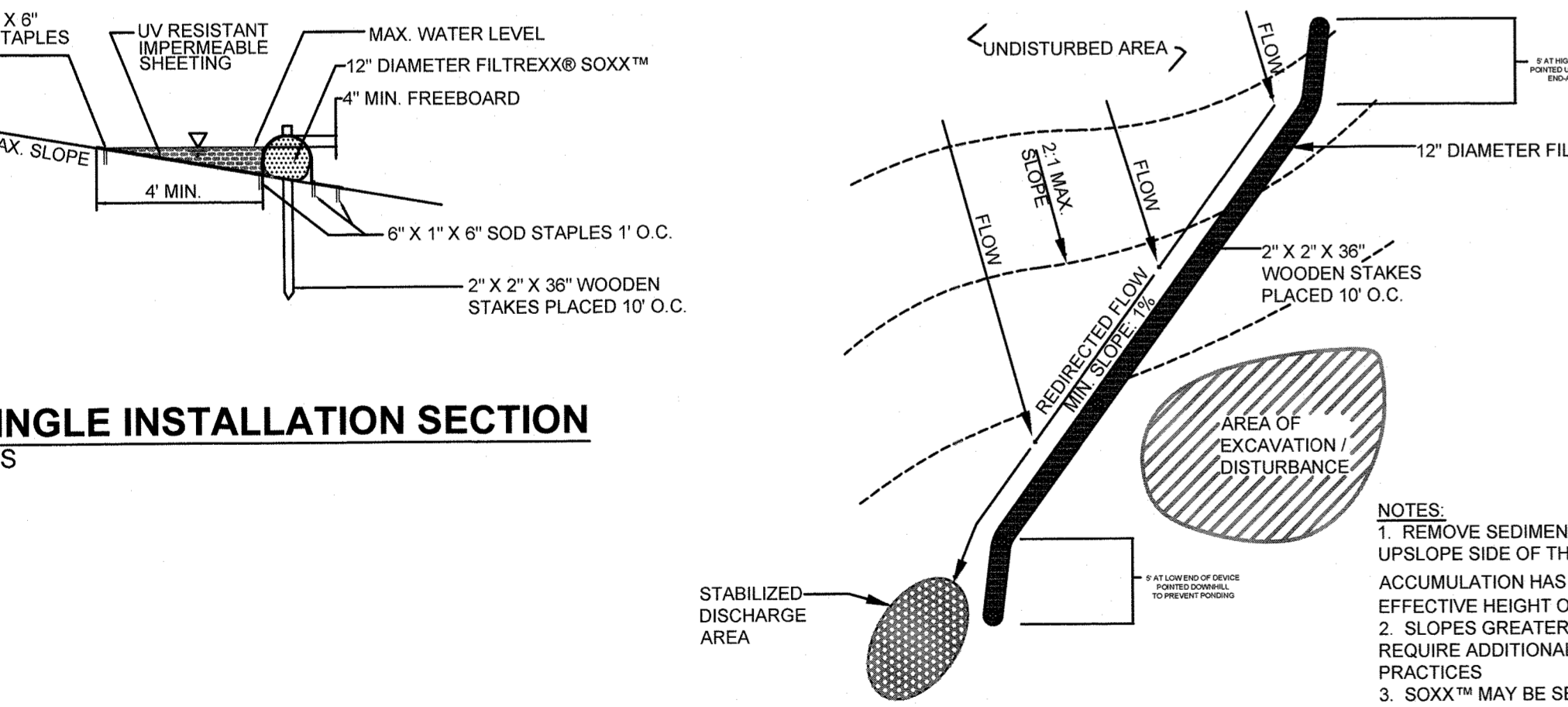
"I hereby certify these documents were prepared or approved by me, and that I am a duly licensed landscape architect under the laws of the State of Maryland."

License No. 492, Expiration Date: 6/17/23

Howard SCD Signature Block:

This plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

Paul Walsky



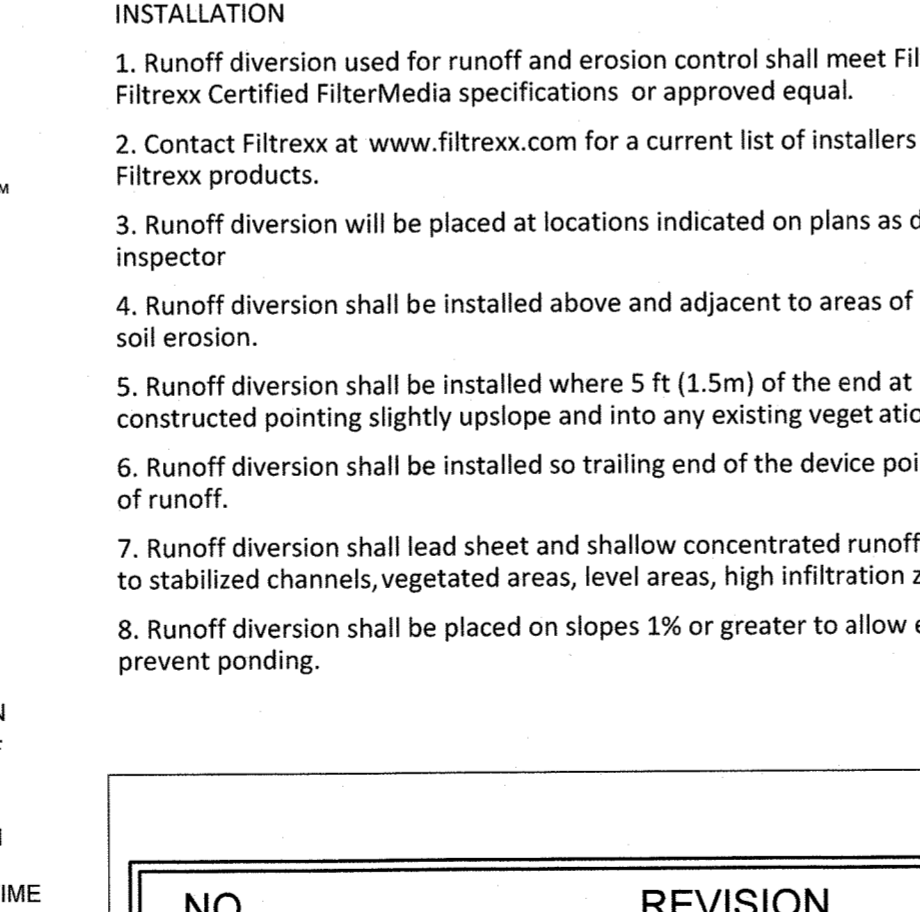
SINGLE INSTALLATION SECTION NTS

NOTES:

- REMOVE SEDIMENT FROM THE UPSLOPE SIDE OF THE SOXX™ WHEN ACCUMULATION HAS REACHED 1/2 OF EFFECTIVE HEIGHT OF SOXX™
- SLOPES GREATER THAN 5% MAY REQUIRE ADDITIONAL STABILIZATION PRACTICES
- SOXX™ MAY BE SEED AT THE TIME OF INSTALLATION

STANDARD SYMBOL

FRD



NO.	REVISION	DATE
2	ADA PARKING AND ADD SHEETS 82-109	MARCH 2021

INSTALLATION

- Runoff diversion used for runoff and erosion control shall meet Filtrexx Soxx Mesh Material and Filtrexx Certified FilterMedia specifications or approved equal.
- Contact Filtrexx at www.filtrexx.com for a current list of installers and distributors of Filtrexx products.
- Runoff diversion will be placed at locations indicated on plans as directed by the Howard County inspector
- Runoff diversion shall be installed above and adjacent to areas of unprotected soil or areas prone to soil erosion.
- Runoff diversion shall be installed where 5 ft (1.5m) of the end at highest elevation should be constructed pointing slightly upslope and into any existing vegetation.
- Runoff diversion shall be installed so trailing end of the device points down slope to prevent ponding of runoff.
- Runoff diversion shall lead sheet and shallow concentrated runoff from vegetated/stabilized soil areas to stabilized channels, vegetated areas, level areas, high infiltration zones, or collection ponds.
- Runoff diversion shall be placed on slopes 1% or greater to allow effective runoff conveyance and to prevent ponding.
- Runoff diversion installed on slopes greater than 5% may require erosion control/soil stabilization practices where runoff flow is concentrated or conveyed.
- Runoff diversion should not be used on slopes greater than 2:1.
- Stakes shall be installed through the middle of the runoff diversion on 10 ft (3m) centers, using 2 in (50mm) by 2 in (50mm) by 3 ft (1m) wooden stakes.
- Staking depth for sand and silt loam soils shall be 12 in (300mm), and 8 in (200mm) for clay soils.
- If the runoff diversion is to be a permanent runoff diversion device or part of the natural landscape, it may be seeded at time of installation for establishment of permanent vegetation. The Engineer will specify seed requirements.
- Loose GrowingMedia used for backfilling and extension of filter strip may also be seeded. The Engineer will specify seed requirements.

See design drawing details for correct runoff diversion installation (Figure 6.1).

INSPECTION

Routine inspection should be conducted within 24 hrs. of a runoff event or as designated by the regulating authority. Runoff diversion should be regularly inspected to make sure they maintain their shape and are adequately diverting storm runoff. If ponding becomes excessive, additional runoff diversion may be required, sediment or debris removal may be necessary, or the device may need to be.

NOTE:

THE SOIL STABILIZATION MATTING SHALL REMAIN IN PLACE BECAUSE IT WILL DECOMPOSE. DETAILS B-4-B-A & B-4-B-B.

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 490, EXPIRATION DATE: JUNE 17, 2023."

DESIGN PROFESSIONAL:
PAUL WALSKY
HOWARD CO. DEPT. OF REC. & PARKS
7120 OAKLAND MILLS ROAD
COLUMBIA, MARYLAND 21046
TELEPHONE NUMBER: 410 313-1695

CONSTRUCTION SPECIFICATIONS

- USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DESIGNATED ON APPROVED PLANS.
- USE TEMPORARY SOIL STABILIZATION MATTING MADE OF DEGRADABLE (LASTS 6 MONTHS MINIMUM) NATURAL OR MAN-MADE FIBERS (MOSTLY ORGANIC). MAT MUST HAVE UNIFORM THICKNESS AND DISTRIBUTION OF FIBERS THROUGHOUT AND BE SMOOTHER RESISTANT. CHEMICALS USED IN THE MAT MUST BE NON-LEACHING AND NON-TOXIC TO VEGETATION AND SEED GERMINATION AND NON-HARMFUL TO THE SOIL. IF PRESENT, NETTING MUST BE EXTRUDED PLASTIC WITH A MAXIMUM MESH OPENING OF 2/32 INCHES AND SUFFICIENTLY BONDED OR SOWN ON 2 INCH CENTERS ALONG LONGITUDINAL AXIS OF THE MATERIAL TO PREVENT SEPARATION OF THE NET FROM THE PARENT MATERIAL.
- SECURE MATTING USING STEEL STAPLES, WOOD STAKES, OR BIODEGRADABLE EQUIVALENT. STAPLES MUST BE 1/4 OR 1/2 INCH SHARPENED STEEL WIRE HAVING A MINIMUM GAUGE OF NO. 11 AND NO. 8 RESPECTIVELY. 1/4 SHARPENED STEEL WIRE MUST AVERAGE 1 TO 1.5 INCHES LONG AND BE A MINIMUM OF 8 INCHES LONG. 1/2 SHARPENED STEEL WIRE MUST AVERAGE 1 TO 1.5 INCHES LONG AND BE A MINIMUM OF 12 TO 24 INCHES LONG. A MINIMUM OF 1 INCH HEAD. WOOD STAKES MUST BE ROUGH-SAWN HARDWOOD, 12 TO 24 INCHES IN LENGTH, 1 1/2 INCH IN CROSS SECTION, AND WEDGE SHAPED AT THE BOTTOM.
- PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDING PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH SPECIFICATIONS. PLACE MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATIONS UNLESS END OF WORKDAY STABILIZATION IS SPECIFIED ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
- UNROLL MATTING DOWN SLOPE. LAY MAT SMOOTHLY AND FIRMLY UPON THE SEEDING SURFACE. AVOID STRETCHING THE MATTING.
- OVERLAP OR ABUT ROLL EDGES PER MANUFACTURER RECOMMENDATIONS. OVERLAP ROLL EDGES BY 8 INCHES (MINIMUM), WITH THE UPSIDE MAT OVERLAPPING ON TOP OF THE DOWNSTREAM MAT.
- KEY IN THE UPSIDE END OF MAT 8 INCHES (MINIMUM) BY DIGGING A TRENCH, PLACING THE MATTING ROLL END IN THE TRENCH, STAPLING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL, AND TAMPING TO SECURE THE MAT END IN THE KEY.
- STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND 2 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL EDGES.
- ESTABLISH AND MAINTAIN VEGETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

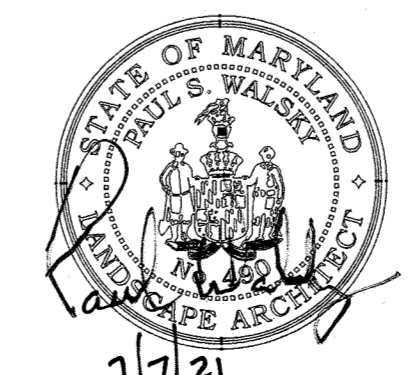
Howard Soil Conservation Dist. #GP-21-015

EROSION & SEDIMENT CONTROL DETAILS
Centennial Park
ADA IMPROVEMENTS - BOAT HOUSE AREA

10,000 CLARKSVILLE PIKE, ELLICOTT CITY, MARYLAND 21042 ZONING: R-20 ELEC. DIST.: 1
A) MAP 30 GRID 7 PARCEL 9 L.F. 46478 TAX ACCOUNT: 2-212982, 137.53 ACRES
B) MAP 30 GRID 2 PARCEL 10 L.F. 89576 TAX ACCOUNT: 2-218690, 104.36 ACRES
OWNER: HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS JULY 7, 2021 SHEET 92 OF 109



FILTREXX® RUNOFF DIVERSION
OR APPROVED EQUAL



B-4-5 STANDARDS AND SPECIFICATIONS FOR PERMANENT STABILIZATION

DEFINITION
TO STABILIZE DISTURBED SOILS WITH PERMANENT VEGETATION.

PURPOSE
TO USE LONG-LIVED PERENNIAL GRASSES AND LEGUMES TO ESTABLISH PERMANENT GROUND COVER ON DISTURBED SOILS.

CONDITIONS WHERE PRACTICE APPLIES
EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR 6 MONTHS OR MORE.

CRITERIA

- A. SEED MIXTURES**
1. GENERAL USE
A. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED IN TABLE 8.3 FOR THE APPROPRIATE PLANT HARDNESS ZONE (FROM FIGURE B.3) AND BASED ON THE SITE CONDITION OR PURPOSE FOUND ON TABLE 8.2. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE PLACED ON THE PLAN.
- B. ADDITIONAL PLANTING SPECIFICATIONS FOR EXCEPTIONAL SITES SUCH AS SHORELINES, STREAM BANKS, OR DUNES OR FOR SPECIAL PURPOSES SUCH AS WILDLIFE OR AESTHETIC TREATMENT MAY BE FOUND IN USDA-NRCS TECHNICAL FIELD OFFICE GUIDE, SECTION 342 – CRITICAL AREA PLANTING.
- C. FOR SITES HAVING DISTURBED AREA OVER 5 ACRES, USE AND SHOW THE RATES RECOMMENDED BY THE SOIL TESTING AGENCY.
- D. FOR AREAS RECEIVING LOW MAINTENANCE, APPLY UREA FORM FERTILIZER (46-0-0) AT 3-1/2 POUNDS PER 1000 SQUARE FEET (150 POUNDS PER ACRE) AT THE TIME OF SEEDING IN ADDITION TO THE SOIL AMENDMENTS SHOWN IN THE PERMANENT SEEDING SUMMARY.

2. TURFGRASS MIXTURES
- A. AREAS WHERE TURFGRASS MAY BE DESIRED INCLUDE LAWNS, PARKS, PLAYGROUNDS, AND COMMERCIAL SITES WHICH WILL RECEIVE A MEDIUM TO HIGH LEVEL OF MAINTENANCE. B. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED BELOW BASED ON THE SITE CONDITIONS OR PURPOSE. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE PLACED ON THE PLAN.
1. KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN AREAS THAT RECEIVE INTENSIVE MANAGEMENT. IRRIGATION REQUIRED IN THE AREAS OF CENTRAL MARYLAND AND EASTERN SHORE. RECOMMENDED CERTIFIED KENTUCKY BLUEGRASS CULTIVARS SEEDING RATE: 1.5 TO 2.0 POUNDS PER 1000 SQUARE FEET. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT.
- II. KENTUCKY BLUEGRASS/PERENNIAL RYE: FULL SUN MIXTURE: FOR USE IN FULL SUN AREAS WHERE RAPID ESTABLISHMENT IS NECESSARY AND WHEN TURF WILL RECEIVE CERTIFIED TO INTENSIVE MANAGEMENT. CERTIFIED PERENNIAL RYEGRASS CULTIVARS/ CERTIFIED KENTUCKY BLUEGRASS SEEDING RATE: 2 POUNDS MIXTURE PER 1000 SQUARE FEET. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT.
- III. TALL FESCUE/KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN DROUGHT PRONE AREAS AND/OR FOR AREAS RECEIVING LOW TO MEDIUM MANAGEMENT IN FULL SUN TO MEDIUM SHADE. RECOMMENDED MIXTURE INCLUDES: CERTIFIED TALL FESCUE CULTIVARS 95 TO 100 PERCENT, CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 0 TO 5 PERCENT. SEEDING RATE: 5 TO 8 POUNDS PER 1000 SQUARE FEET. ONE OR MORE CULTIVARS MAY BE BLENDED.
- IV. KENTUCKY BLUEGRASS/FINE FESCUE: SHADE MIXTURE: FOR USE IN AREAS WITH SHADE IN BLUEGRASS LAWNS. FOR ESTABLISHMENT IN HIGH QUALITY, INTENSIVELY MANAGED TURF AREA. MIXTURE INCLUDES: CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 30 TO 40 PERCENT AND CERTIFIED FINE FESCUE AND 60 TO 70 PERCENT. SEEDING RATE: 1 1/2 TO 3 POUNDS PER 1000 SQUARE FEET.

NOTES:
SELECT TURFGRASS VARIETIES FROM THOSE LISTED IN THE MOST CURRENT UNIVERSITY OF MARYLAND PUBLICATION, AGRONOMY MEMO #77, "TURFGRASS CULTIVAR RECOMMENDATIONS FOR MARYLAND" OR OTHER CERTIFIED MATERIAL IS THE BEST GUARANTEE OF CULTIVAR PURITY. THE CERTIFICATION PROGRAM OF THE MARYLAND DEPARTMENT OF AGRICULTURE, TURF AND SEED SECTION, PROVIDES A RELIABLE MEANS OF CONSUMER PROTECTION AND ASSURES A PURE GENETIC LINE.

- C. IDEAL TIMES OF SEEDING FOR TURF GRASS MIXTURES
- WESTERN MD: MARCH 15 TO JUNE 1, AUGUST 10 TO OCTOBER 1 (HARDNESS ZONES: SB, 6A)
 - CENTRAL MD: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDNESS ZONE: 6B)
 - SOUTHERN MD, EASTERN SHORE: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDNESS ZONES: 7A, 7B)

- D. TILL AREAS TO RECEIVE SEED BY DISKING OR OTHER APPROVED METHODS TO A DEPTH OF 2 TO 4 INCHES. LEVEL AND RAKE THE AREAS TO PREPARE A PROPER SEEDBED. REMOVE STONES AND DEBRIS OVER 1 1/2 INCHES IN DIAMETER. THE RESULTING SEEDBED MUST BE IN SUCH CONDITION THAT FUTURE WINDING OF GRASSES WILL POSE NO DIFFICULTY.
- E. IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER FOR PLANT GROWTH (1/2 TO 1 INCH EVERY 3 TO 4 DAYS DEPENDING ON SOIL TEXTURE) UNTIL THEY ARE FIRMLY ESTABLISHED. CARE WHEN SEEDINGS ARE MADE LATE IN THE PLANTING SEASON, AN UNUSUALLY DRY OR HOT SEASONS, OR ON ADVERSE SITES.

- B. SOIL TO PROVIDE QUICK COVER ON DISTURBED AREAS (2:1 GRADE OR FLATTER).
1. GENERAL SPECIFICATIONS
- A. CLASS OF TURFGRASS SOD MUST BE MARYLAND STATE CERTIFIED. SOD LABELS MUST BE MADE AVAILABLE TO THE JOB FOREMAN AND INSPECTOR.
- B. SOD MUST BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 3/4 INCH, PLUS OR MINUS 1/8 INCH, AT THE TIME OF CUTTING. MEASUREMENT FOR THICKNESS MUST EXCLUDE TOP GROWTH AND THATCH. BROKEN PADS AND TOP OR UNEVEN ENDS WILL NOT BE ACCEPTABLE.
- C. STANDARD SIZE SECTIONS OF SOD MUST BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON THE UPPER 10 PERCENT OF THE SECTION.
- D. SOD MUST NOT BE HARVESTED OR TRANSPORTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY OR WET) MAY ADVERSELY AFFECT ITS SURVIVAL.
- E. SOD MUST BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD NOT TRANSPORTED WITHIN THIS PERIOD MUST BE APPROVED BY AN AGRONOMIST OR SOIL SCIENTIST PRIOR TO ITS INSTALLATION.

2. SOD INSTALLATION
- A. DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL, LIGHTLY IRRIGATE THE SUBSOIL IMMEDIATELY PRIOR TO LAYING THE SOD.
- B. LAY THE FIRST ROW OF SOD IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO IT AND TIGHTLY WEDGED AGAINST EACH OTHER. STAGGER LATERAL JOINTS TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. ENSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE AIR DRYING OF THE ROOTS.
- C. WHEREVER POSSIBLE, LAY SOD WITH THE LONG EDGES PARALLEL TO THE CONTOUR AND WITH STAGGERING JOINTS. ROLL AND TAMP. PEG OR OTHERWISE SECURE THE SOD TO PREVENT SLIPPAGE ON SLOPES. ENSURE SOLID CONTACT EXISTS BETWEEN SOD ROOTS AND THE UNDERLYING SOIL SURFACE.
- D. WATER THE SOD IMMEDIATELY FOLLOWING ROLLING AND TAMPING UNTIL THE UNDERSIDE OF THE NEW SOD PAD AND SOIL SURFACE BELOW THE SOD ARE THOROUGHLY WET. COMPLETE THE OPERATIONS OF LAYING, TAMPING AND IRRIGATING FOR ANY PIECE OF SOD WITHIN EIGHT HOURS.

3. SOD MAINTENANCE
- A. IN THE ABSENCE OF ADEQUATE RAINFALL, WATER DAILY DURING THE FIRST WEEK OR AS OFTEN AND SUFFICIENTLY AS NECESSARY TO MAINTAIN MOIST SOIL TO A DEPTH OF 4 INCHES. WATER SOD DURING THE HEAT OF THE DAY TO PREVENT WILTING.
- B. AFTER THE FIRST WEEK, SOD WATERING IS REQUIRED AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE CONTENT.
- C. DO NOT MOW UNTIL THE SOD IS FIRMLY ROOTED, NO MORE THAN 1/3 OF THE GRASS LEAF MUST BE REMOVED BY THE INITIAL CUTTING OR SUBSEQUENT CUTTINGS. MAINTAIN A GRASS HEIGHT OF AT LEAST 3 INCHES UNLESS OTHERWISE SPECIFIED.

R-4-2 STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING AND SOIL AMENDMENTS

DEFINITION
THE PROCESS OF PREPARING THE SOILS TO SUSTAIN ADEQUATE VEGETATIVE STABILIZATION.

PURPOSE
TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH.

CONDITIONS WHERE PRACTICE APPLIES
WHERE VEGETATIVE STABILIZATION IS TO BE ESTABLISHED.

CRITERIA

- A. SOIL PREPARATION
1. TEMPORARY STABILIZATION
- A. SEEDBED PREPARATION CONSISTS OF LOOSENING SOIL TO A DEPTH OF 3 TO 5 INCHES BY MEANS OF SUITABLE AGRICULTURAL OR CONSTRUCTION EQUIPMENT, SUCH AS DISC HARROWS OR CHISEL PLOWS OR RIPPER MOUNTED ON CONSTRUCTION EQUIPMENT. AFTER THE SOIL IS LOOSENED, IT MUST NOT BE ROLLED OR DRAGGED SMOOTH BUT LEFT IN THE ROUGHENED CONDITION. SLOPES 3:1 OR FLATTER ARE TO BE TRACKED WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE.
- B. APPLY FERTILIZER AND LIME AS PRESCRIBED ON THE PLANS.
- C. INCORPORATE LIME AND FERTILIZER INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.
2. PERMANENT STABILIZATION
- A. A SOIL TEST IS REQUIRED FOR ANY EARTH DISTURBANCE OF 5 ACRES OR MORE. THE MINIMUM SOIL CONDITIONS REQUIRED FOR PERMANENT VEGETATIVE ESTABLISHMENT ARE:
- SOIL PH BETWEEN 6.0 AND 7.0.
 - SOLUBLE SALTS LESS THAN 500 PARTS PER MILLION (PPM).
 - SOIL CONTAINS LESS THAN 40 PERCENT CLAY BUT ENOUGH FINE GRAINED MATERIAL (GREATER THAN 30 PERCENT SILT PLUS CLAY) TO PROVIDE THE CAPACITY TO HOLD A MODERATE AMOUNT OF MOISTURE. AN EXCEPTION: IF LOWESS/CLAY WILL BE PLANTED, THEN A SANDY SOIL (LESS THAN 30 PERCENT SILT PLUS CLAY) WOULD BE ACCEPTABLE.
 - SOIL CONTAINS 1.5 PERCENT MINIMUM ORGANIC MATTER BY WEIGHT.
 - SOIL CONTAINS SUFFICIENT PORE SPACE TO PERMIT ADEQUATE ROOT PENETRATION.
- B. APPLICATION OF AMENDMENTS OR TOPSOIL IS REQUIRED IF ON-SITE SOILS DO NOT MEET THE ABOVE CONDITIONS.
- C. GRADED AREAS MUST BE MAINTAINED IN A TRUE AND EVEN GRADE AS SPECIFIED ON THE APPROVED PLAN, THEN SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF 3 TO 5 INCHES.
- D. APPLY SOIL AMENDMENTS AS SPECIFIED ON THE APPROVED PLAN OR AS INDICATED BY THE RESULTS OF A SOIL TEST.
- E. MIX SOIL AMENDMENTS INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS. TRACE LIME AREAS TO SMOOTH THE SURFACE. REMOVE LARGE OBJECTS LIKE STONES AND BRANCHES, AND READY THE AREA FOR SEED APPLICATION. LOOSEN SURFACE SOIL BY DRAGGING WITH A HEAVY CHAIN OR OTHER EQUIPMENT TO ROUGHEN THE SURFACE WHERE SITE CONDITIONS WILL NOT PERMIT NORMAL SEEDBED PREPARATION. TRACK SLOPES 3:1 OR FLATTER WITH TRACKED EQUIPMENT LEAVING THE SOIL IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE. LEAVE THE TOP 1 TO 3 INCHES OF SOIL LOOSE AND FRABLE. SEEDBED LOOSENING MAY BE UNNECESSARY ON NEWLY DISTURBED AREAS.

B. TOPSOILING

1. TOPSOIL IS PLACED OVER PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION. THE PURPOSE IS TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.
2. TOPSOIL SALVAGED FROM AN EXISTING SITE MAY BE USED PROVIDED IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-NRCS.
3. TOPSOILING IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
- THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.
 - THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
 - THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
 - THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.
 - AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN.
4. TOPSOIL SPECIFICATIONS: SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING CRITERIA:
- TOPSOIL MUST BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, OR LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED.
 - BY THE APPROPRIATE APPROVAL AUTHORITY, TOPSOIL MUST NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND MUST CONTAIN LESS THAN 6 PERCENT BY VOLUME OF CIMBERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1 1/2 INCHES IN DIAMETER.
 - TOPSOIL MUST BE FREE OF NOXIOUS PLANTS OR PLANT PARTS SUCH AS BERNARDIA GRASS, QUICK GRASS, JOHNSON GRASS, NET SEDGE, POISON NY, THISTLE, OR OTHERS AS SPECIFIED.
 - TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.
5. EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED WHEN APPLYING TOPSOIL.

- C. SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS)
1. SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS AND APPLICATION RATES FOR BOTH LIME AND FERTILIZER ON SITES HAVING DISTURBED AREAS OF 5 ACRES OR MORE. SOIL ANALYSIS MAY BE PERFORMED BY A RECOGNIZED PRIVATE OR COMMERCIAL LABORATORY. SOIL SAMPLES TAKEN FOR ENGINEERING PURPOSES MAY ALSO BE USED FOR CHEMICAL ANALYSES.
2. FERTILIZERS MUST BE UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR ACCURATE APPLICATION BY APPROPRIATE EQUIPMENT. MANURE MAY BE SUBSTITUTED FOR FERTILIZER WITH PRIOR APPROVAL FROM THE APPROPRIATE APPROVAL AUTHORITY. FERTILIZERS MUST ALL BE DELIVERED TO THE SITE FULLY LABELED ACCORDING TO THE APPLICABLE LAWS AND MUST BEAR THE NAME, TRADE NAME OR TRADEMARK AND WARRANTY OF THE PRODUCER.
3. LIME MATERIALS MUST BE GROUND LIMESTONE (HYDRATED OR BURNT LIME MAY BE SUBSTITUTED EXCEPT WHEN HYDROSEEDING) WHICH CONTAINS AT LEAST 50 PERCENT TOTAL OXIDES (CALCIUM OXIDE PLUS MAGNESIUM OXIDE). LIMESTONE MUST BE GROUND TO SUCH FINENESS THAT AT LEAST 50 PERCENT WILL PASS THROUGH A #100 MESH SIEVE AND 98 TO 100 PERCENT WILL PASS THROUGH A #20 MESH SIEVE.
4. LIME AND FERTILIZER ARE TO BE EVENLY DISTRIBUTED AND INCORPORATED INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.
5. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, SPREAD GROUND LIMESTONE AT THE RATE OF 4 TO 8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL.

PERMANENT SEEDING SUMMARY

HARDNESS ZONE (FROM FIGURE B.3):		ZONE 6b		SEED MIXTURE (FROM TABLE B.1):		FERTILIZER RATE (10-20-20)		LIME RATE
NO	SPECIES	APPLICATION RATE (LB/AC)	SEEDING DATES	SEEDING DEPTHS	N	P ₂ O ₅	K ₂ O	
1	COOL SEASON ANNUAL FESCUE OR EQUAL	T.F. 60 LB / AC	MAR 1 TO MAY 15	1/4-1/2 IN	45 LB/AC (1 LB PER 1000 SF)	90 LB/AC (2 LB PER 1000 SF)	90 LB/AC (2 LB PER 1000 SF)	2 TONS/AC (90 LB PER 1000 SF)
8	TALL FESCUE	K.B. 40 LB / AC	AUG 15 TO OCT 15	"	"	"	"	"
11	FINE FESCUE	T.F. 100 LB / AC	FEB 15 - APR 15	"	"	"	"	"

B-4-3 STANDARDS AND SPECIFICATIONS FOR SEEDING AND MULCHING

DEFINITION
THE APPLICATION OF SEED AND MULCH TO ESTABLISH VEGETATIVE COVER.

PURPOSE
TO PROTECT DISTURBED SOILS FROM EROSION DURING AND AT THE END OF CONSTRUCTION.

CONDITIONS WHERE PRACTICE APPLIES
TO THE SURFACE OF ALL PERIMETER CONTROLS, SLOPES, AND ANY DISTURBED AREA NOT UNDER ACTIVE GRADING.

CRITERIA

- A. SEEDING
1. SPECIFICATIONS
- A. ALL SEED MUST MEET THE REQUIREMENTS OF THE MARYLAND STATE SEED LAW. ALL SEED MUST BE SUBJECT TO RE-TESTING BY A RECOGNIZED SEED LABORATORY. ALL SEED USED MUST HAVE BEEN TESTED WITHIN THE 6 MONTHS IMMEDIATELY PRECEDING THE DATE OF SOWING SUCH MATERIAL ON ANY PROJECT. REFER TO TABLE B.4 REGARDING THE QUALITY OF SEED. SEED TESTS MUST BE AVAILABLE UPON REQUEST TO THE INSPECTOR TO VERIFY TYPE OF SEED AND SEEDING RATE.
- B. MULCH ALONE MAY BE APPLIED BETWEEN THE FALL AND SPRING SEEDING DATES ONLY IF THE GROUND IS FROZEN. THE APPROPRIATE SEEDING MIXTURE MUST BE APPLIED WHEN THE GROUND THAWS.
- C. INOCULANTS: THE INOCULANT FOR TREATING LEGUME SEED IN THE SEED MIXTURES MUST BE A PURE CULTURE OF NITROGEN FIXING BACTERIA PREPARED SPECIALLY FOR THE SPECIES. INOCULANTS MUST NOT BE USED LATER THAN THE DATE INDICATED ON THE CONTAINER. ADD FRESH INOCULANTS AS DIRECTED ON THE PACKAGE. USE FOUR TIMES THE RECOMMENDED RATE WHEN HYDROSEEDING. NOTE: IT IS VERY IMPORTANT TO KEEP INOCULANT AS COOL AS POSSIBLE UNTIL USED. TEMPERATURES ABOVE 75 TO 80 DEGREES FAHRENHEIT CAN WEAKEN BACTERIA AND MAKE THE INOCULANT LESS EFFECTIVE.
- D. SOD OR SEED MUST NOT BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MIN) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS.

2. APPLICATION
- A. DRY SEEDING: THIS INCLUDES USE OF CONVENTIONAL DROP OR BROADCAST SPREADERS.
- I. INCORPORATE SEED INTO THE SUBSOIL AT THE RATES PRESCRIBED ON TEMPORARY SEEDING TABLE 8.1, PERMANENT SEEDING TABLE 8.3, OR SITE-SPECIFIC SEEDING SUMMARIES.
- II. APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RATE IN EACH DIRECTION. ROLL THE SEEDBED AREA WITH A WEIGHTED ROLLER TO PROVIDE GOOD SEED TO SOIL CONTACT.
- B. DRILL OR CULTIPACKER SEEDING: MECHANIZED SEEDING THAT APPLY AND COVER SEED WITH SOIL. CULTIPACKER SEEDING IS RECOMMENDED TO BURY THE SEED IN SUCH A FASHION AS TO PROVIDE AT LEAST 1/4 INCH OF SOIL COVERING. SEEDBEDS MUST BE ROLL AFTER PLANTING.
- II. APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RATE IN EACH DIRECTION.
- C. HYDROSEEDING: APPLY SEED UNIFORMLY WITH HYDROSEEDER (SLURRY INCLUDES SEED AND FERTILIZER). FERTILIZER IS BEING APPLIED AT THE TIME OF SEEDING, THE APPLICATION RATES SHOULD NOT EXCEED THE FOLLOWING: NITROGEN, 100 POUNDS PER ACRE TOTAL OF SOLUBLE NITROGEN; P205 (PHOSPHOROUS), 200 POUNDS PER ACRE; K20 (POTASSIUM), 200 POUNDS PER ACRE.
- II. LIME: USE ONLY GROUND AGRICULTURAL LIMESTONE (UP TO 3 TONS PER ACRE MAY BE APPLIED BY HYDROSEEDING). NORMALLY, NOT MORE THAN 2 TONS ARE APPLIED BY HYDROSEEDING AT ANY ONE TIME. DO NOT USE BURNT OR HYDRATED LIME WHEN HYDROSEEDING.
- III. MIX SEED AND FERTILIZER ON SITE AND SEED IMMEDIATELY AND WITHOUT INTERRUPTION.
- IV. WHEN HYDROSEEDING DO NOT INCORPORATE SEED INTO THE SOIL.

B. MULCHING

1. MULCH MATERIALS (IN ORDER OF PREFERENCE)
- A. STRAW CONSISTING OF THOROUGHLY THRESHED WHEAT, RYE, OAT, OR BARLEY AND REASONABLY BRIGHT IN COLOR. STRAW IS TO BE FREE OF NOXIOUS WEED SEEDS AS SPECIFIED IN THE MARYLAND SEED LAW AND NOT MUSTY, MOIST, CAVED, DEGRADED, OR EXCESSIVELY DUSTY. NOTE: STRAW MUST BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-NRCS.
- B. WOOD CELLULOSE FIBER MULCH (WCFM) CONSISTING OF SPECIALLY PREPARED WOOD CELLULOSE PROCESSED INTO A UNIFORM FIBROUS PHYSICAL STATE.
- I. WCFM IS TO BE DYED GREEN OR CONTAIN A GREEN DYE IN THE PACKAGE THAT WILL PROVIDE AN APPROPRIATE COLORAL INSPECTION OF THE UNIFORMLY SPREAD SLURRY.
- II. WCFM, INCLUDING DYE, MUST CONTAIN NO GERMINATION OR GROWTH INHIBITING FACTORS.
- III. WCFM MATERIALS ARE TO BE MANUFACTURED AND PROCESSED IN SUCH A MANNER THAT THE WOOD CELLULOSE FIBER MULCH WILL REMAIN IN UNIFORM SUSPENSION IN WATER UNDER AGITATION AND WILL BLEND WITH SEED, FERTILIZER AND OTHER ADDITIVES TO FORM A HOMOGENEOUS SLURRY. THE MULCH MATERIAL MUST FORM A BLOTTER-LIKE GROUND COVER, ON APPLICATION, HAVING MOISTURE ABSORPTION AND PERCOLATION PROPERTIES AND MUST COVER AND HOLD GRASS SEED IN CONTACT WITH THE SOIL WITHOUT INHIBITING THE GROWTH OF THE GRASS SEEDLINGS.
- IV. WCFM MATERIAL MUST NOT CONTAIN ELEMENTS OR COMPOUNDS AT CONCENTRATION LEVELS THAT WILL BE PHYTO-TOXIC.
- V. WCFM MUST CONFORM TO THE FOLLOWING PHYSICAL REQUIREMENTS: FIBER LENGTH OF APPROXIMATELY 10 MILLIMETERS, DIAMETER APPROXIMATELY 1 MILLIMETER, PH RANGE OF 4.0 TO 8.5, ASH CONTENT OF 1.6 PERCENT MAXIMUM AND WATER HOLDING CAPACITY OF 90 PERCENT MINIMUM.

2. APPLICATION
- A. APPLY MULCH TO ALL SEEDBED AREAS IMMEDIATELY AFTER SEEDING.
- B. WHEN STRAW MULCH IS USED, SPREAD IT OVER ALL SEEDBED AREAS AT THE RATE OF 2 TONS PER ACRE TO A UNIFORM LOOSE DEPTH OF 1 TO 2 INCHES. APPLY MULCH TO ACHIEVE A UNIFORM DISTRIBUTION AND DEPTH SO THAT THE SOIL SURFACE IS NOT EXPOSED. WHEN USING A MULCH ANCHORING TOOL, INCREASE THE APPLICATION RATE TO 2.5 TONS PER ACRE.
- C. WOOD CELLULOSE FIBER USED AS MULCH MUST BE APPLIED AT A NET DRY WEIGHT OF 1500 POUNDS PER ACRE. MIX THE WOOD CELLULOSE FIBER WITH WATER TO ATTAIN A MIXTURE WITH A MAXIMUM OF 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER.
3. ANCHORING
- A. PERFORM MULCH ANCHORING IMMEDIATELY FOLLOWING APPLICATION OF MULCH TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS (LISTED BY PREFERENCE), DEPENDING UPON THE SIZE OF THE AREA AND EROSION HAZARD:

- I. A MULCH ANCHORING TOOL IS A TRACTOR DRAWN IMPLEMENT DESIGNED TO PUNCH AND ANCHOR MULCH INTO THE SOIL SURFACE A MINIMUM OF 2 INCHES. THIS PRACTICE IS MOST EFFECTIVE ON LARGE AREAS, BUT IS LIMITED TO FLATTER SLOPES WHERE EQUIPMENT CAN OPERATE SAFELY. IF USED ON SLOPING LAND, THIS PRACTICE SHOULD FOLLOW THE CONTOUR.
- II. WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. APPLY THE FIBER BINDER AT A NET DRY WEIGHT OF 750 POUNDS PER ACRE. MIX THE WOOD CELLULOSE FIBER WITH WATER AT A MAXIMUM OF 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER.
- III. SYNTHETIC BINDERS SUCH AS ACRYLIC BLR (AGRO-TACK), DGA-70, PTEROSSET, TERRA TACK AR OR OTHER APPROVED EQUAL MAY BE USED. FOLLOW APPLICATION RATES AS SPECIFIED BY THE MANUFACTURER. APPLICATION OF LIQUID BINDERS NEEDS TO BE HEAVIER AT THE EDGES WHERE WIND CATCHES MULCH, SUCH AS IN VALLEYS AND ON CRESTS OF BANKS. USE OF ASPHALT BINDERS IS STRICTLY PROHIBITED.
- IV. LIGHTWEIGHT PLASTIC NETTING MAY BE STAPLED OVER THE MULCH ACCORDING TO MANUFACTURER RECOMMENDATIONS. NETTING IS USUALLY AVAILABLE IN ROLLS 4 TO 15 FEET WIDE AND 300 TO 3,000 FEET LONG.

B-4-4 STANDARDS AND SPECIFICATIONS FOR TEMPORARY STABILIZATION

DEFINITION
TO STABILIZE DISTURBED SOILS WITH VEGETATION FOR UP TO 6 MONTHS.

PURPOSE
TO USE FAST GROWING VEGETATION THAT PROVIDES COVER ON DISTURBED SOILS.

CONDITIONS WHERE PRACTICE APPLIES
EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR A PERIOD OF 6 MONTHS OR LESS. FOR LONGER DURATION OF TIME, PERMANENT STABILIZATION PRACTICES ARE REQUIRED.

CRITERIA

1. SELECT ONE OR MORE OF THE SPECIES OR SEED MIXTURES LISTED IN TABLE 8.1 FOR THE APPROPRIATE PLANT HARDNESS ZONE (FROM FIGURE B.3), AND ENTER THEM IN THE TEMPORARY SEEDING SUMMARY BELOW ALONG WITH APPLICATION RATES, SEEDING DATES AND SEEDING DEPTHS. IF THIS SUMMARY IS NOT PUT ON THE PLAN AND COMPLETED, THEN TABLE 8.1 PLUS FERTILIZER AND LIME RATES MUST BE PUT ON THE PLAN.
2. FOR SITES HAVING SOIL TESTS PERFORMED, USE AND SHOW THE RECOMMENDED RATES BY THE TESTING AGENCY. SOIL TESTS ARE NOT REQUIRED FOR TEMPORARY SEEDING.
3. WHEN STABILIZATION IS REQUIRED OUTSIDE OF A SEEDING SEASON, APPLY SEED AND MULCH OR STRAW MULCH ALONE AS PRESCRIBED IN SECTION B-4-3A.1.B AND WAIT UNTIL THE NEXT SEEDING SEASON.

TEMPORARY SEEDING SUMMARY

HARDNESS ZONE (FROM FIGURE B.3):		ZONE 6b		SEED MIXTURE (FROM TABLE B.1):		FERTILIZER RATE (10-20-20)		LIME RATE
NO	SPECIES	APPLICATION RATE (LB/AC)	SEEDING DATES	SEEDING DEPTHS	N	P ₂ O ₅	K ₂ O	
1	COOL SEASON ANNUAL FESCUE OR EQUAL	40 LB / AC	MAR 1 TO MAY 15 AUG 15 TO OCT 15	1/2 IN.	436 LB/AC (10 LB PER 1000 SF)	872 LB/AC (20 LB PER 1000 SF)	872 LB/AC (20 LB PER 1000 SF)	2 TONS/AC (90 LB PER 1000 SF)
2	WARM SEASON FOXTAIL MILLET OR EQUAL	30 LB / AC	MAY 16 TO JUL 31	1/2 IN.	"	"	"	"

B-4-8 STANDARDS AND SPECIFICATIONS FOR STOCKPILE AREA

DEFINITION
A MOUND OR PILE OF SOIL PROTECTED BY APPROPRIATELY DESIGNED EROSION AND SEDIMENT CONTROL MEASURES.

PURPOSE
TO PROVIDE A DESIGNATED LOCATION FOR THE TEMPORARY STORAGE OF SOIL THAT CONTROLS THE POTENTIAL FOR EROSION, SEDIMENTATION, AND CHANGES TO DRAINAGE PATTERNS.

CONDITIONS WHERE PRACTICE APPLIES

STOCKPILE AREAS ARE UTILIZED WHEN IT IS NECESSARY TO SALVAGE AND STORE SOIL FOR LATER USE.

CRITERIA

- THE STOCKPILE LOCATION AND ALL RELATED SEDIMENT CONTROL PRACTICES MUST BE CLEARLY INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN.
- THE FOOTPRINT OF THE STOCKPILE MUST BE SIZED TO ACCOMMODATE THE ANTICIPATED VOLUME OF MATERIAL AND BASED ON A SIDE SLOPE RATIO NO STEEPER THAN 2:1. BENCHING MUST BE PROVIDED IN ACCORDANCE WITH SECTION B-3 LAND GRADING.
- RUNOFF FROM THE STOCKPILE AREA MUST DRAIN TO A SUITABLE SEDIMENT CONTROL PRACTICE.
- ACCESS THE STOCKPILE AREA FROM THE UPGRADE SIDE.
- CLEAR WATER RUNOFF INTO THE STOCKPILE AREA MUST BE MINIMIZED BY USE OF A DIVERSION DEVICE SUCH AS AN EARTH DIKE, TEMPORARY SWALE OR DIVERSION FENCE. PROVISIONS MUST BE MADE FOR DISCHARGING CONCENTRATED FLOW IN A NON-EROSIVE MANNER.
- WHERE RUNOFF CONCENTRATES ALONG THE TOE OF THE STOCKPILE, AN APPROPRIATE EROSION/SEDIMENT CONTROL PRACTICE MUST BE USED TO INTERCEPT THE DISCHARGE.
- STOCKPILES MUST BE STABILIZED IN ACCORDANCE WITH THE 3/7 DAY STABILIZATION REQUIREMENT AS WELL AS STANDARD B-4-1 INCREMENTAL STABILIZATION AND STANDARD B-4-4 TEMPORARY STABILIZATION.
- IF THE STOCKPILE IS LOCATED ON AN IMPERVIOUS SURFACE, A LINER SHOULD BE PROVIDED BELOW THE STOCKPILE TO FACILITATE CLEANUP. STOCKPILES CONTAINING CONTAMINATED MATERIAL MUST BE COVERED WITH IMPERMEABLE SHEETING.

MAINTENANCE

THE STOCKPILE AREA MUST CONTINUOUSLY MEET THE REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION. SIDE SLOPES MUST BE MAINTAINED AT NO STEEPER THAN A 2:1 RATIO. THE STOCKPILE AREA MUST BE KEPT FREE OF EROSION. IF THE VERTICAL HEIGHT OF A STOCKPILE EXCEEDS 20 FEET FOR 2:1 SLOPES, 30 FEET FOR 3:1 SLOPES, OR 40 FEET FOR 4:1 SLOPES, BENCHING MUST BE PROVIDED IN ACCORDANCE WITH SECTION B-3 LAND GRADING.

Erosion and Sediment Control Narrative

Centennial Park is a regional facility located in the Ellcott City area of Howard County northeast of the intersection of Maryland Route 108 and Centennial Lane. We are proposing to reconstruct existing retaining walls because they are decomposing and structurally failing. Pathway reconstruction is needed so that compliance with ADA standards. We are proposing five ADA parking spaces for park users because the existing spaces within the parking lot are not ADA compliant nor are the pathways leading from the parking lot.

The soils consist of Gladstone loam (8-15% slopes), Gladstone-Urban land complex (0-8% slopes), Glenville silt loam (3-8% slopes) and Manor loam (15% slopes). The park comprises of 241.79 acres and was developed in the late 1980s. The proposed disturbance is 0.99 acres. The proposed works located on a northwest-west slope uphill from Centennial Lake. The length of disturbance is linear in plan view, is 830 linear feet in length and a maximum of 145 linear feet in width. There is a small mound of disturbance within the Waters of the U.S. and associated buffers for the construction of a proposed storm drain outfall structure extending from the swales above the retaining walls. We will be submitting an application to MDE for the disturbance of Waters of the U.S. and buffers.

For storm water management we are proposing one micro-bioretenation basin located adjacent to the existing concrete retaining wall and the building complex that is approximately 850 square feet in area. The proposed erosion and sediment control measures include installing the following devices from the 2011 Standards and Specifications for Soil Erosion and Sediment Control by the Maryland Department of the Environment. They include super silt fence, silt fence, diversion fence, stabilized construction entrance, at grade inlet protection, curb inlet protection, temporary asphalt berm, stone check dam and temporary soil stabilization. We are also proposing Diversion Filter Log to not disturb the existing farm roads, which is not an MDE standard device.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division *[Signature]* 7/21/21 Date

Chief, Division of Land Development *[Signature]* 7/23/21 Date

Director *[Signature]* 7/23/21 Date

SEDIMENT CONTROL

Owners/Developer Certification:

"I/We hereby certify that any clearing, grading, construction, or development will be done pursuant to this approved erosion and sediment control plan, including inspecting and maintaining controls, and that the responsible personnel involved in the construction project will have a Certificate of Training at a Maryland Department of the Environment (MDE) approved training program for the control on erosion and sediment prior to beginning the project. I certify right-entry for periodic on site evaluation by Howard County, the Howard Soil Conservation District and/or MDE."

[Signature] 7/12/21 Date
Owner's/Developer's Signature
[Signature] 7/12/21 Date
A. PAUL BELERME, DIRECTOR
Printed Name & Title

Design Certification:

"I hereby certify that this plan has been designed in accordance with current Maryland erosion and sediment control laws, regulations, and standards, that it represents a practical and workable plan based on my personal knowledge of the site, and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

[Signature] 7/12/21 Date
Designer's Signature
[Signature] 7/12/21 Date
PAUL WALSKY
Printed Name
MD Registration No. P.E., R.L.S., or R.L.A. (Circle one)

Professional Certification:

"I hereby certify these documents were prepared or approved by me, and that I am a duly licensed landscape architect under the laws of the State of Maryland."

License No. 490, Expiration Date: 6/12/23

(Title block, certification, seal, and signature shall appear close to each other)

Howard SCD Signature Block:

This plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

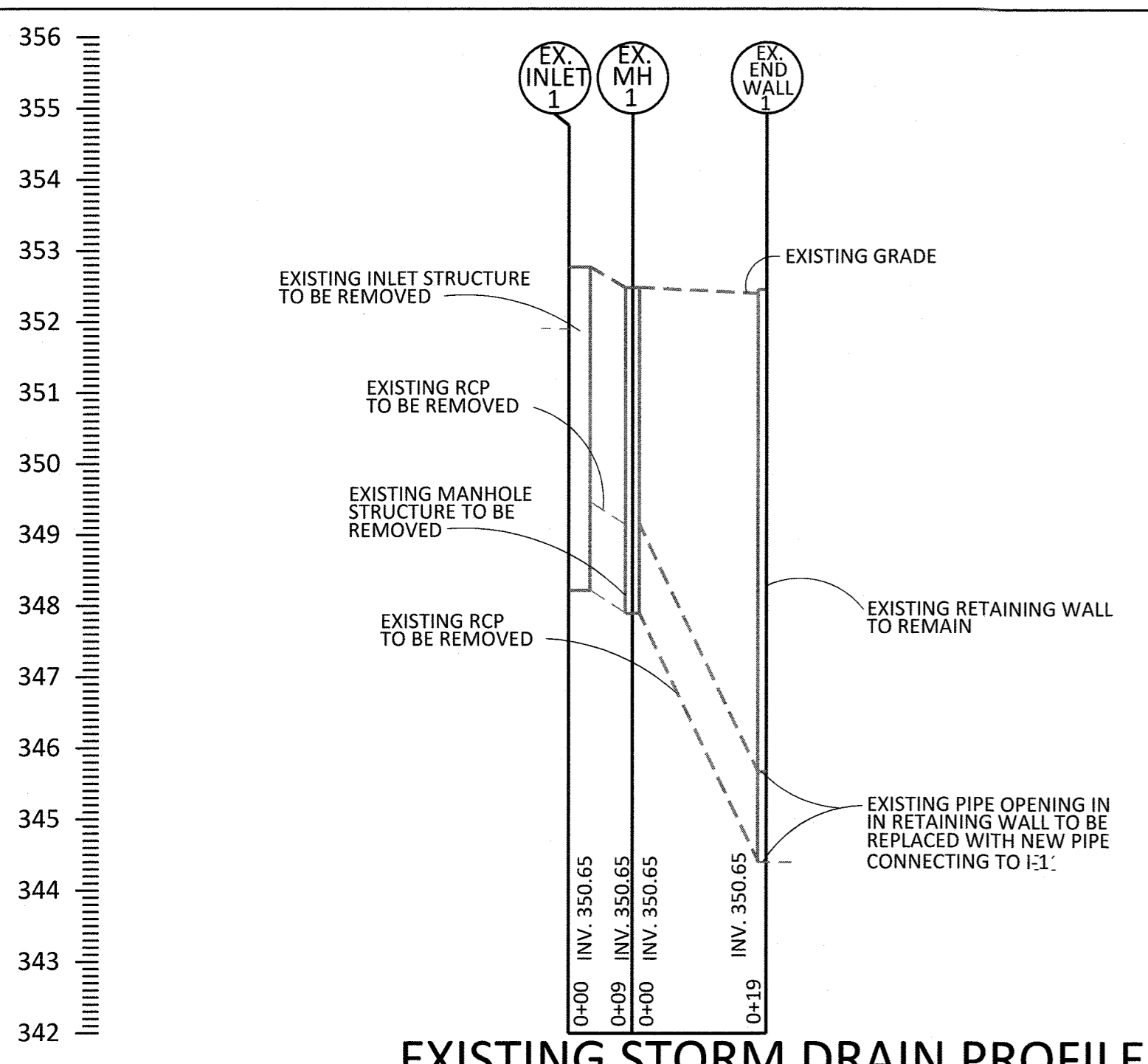
[Signature] 7/12/21 Date
Howard Soil Conservation District

Howard Soil Conservation Dist. #GP-21-015

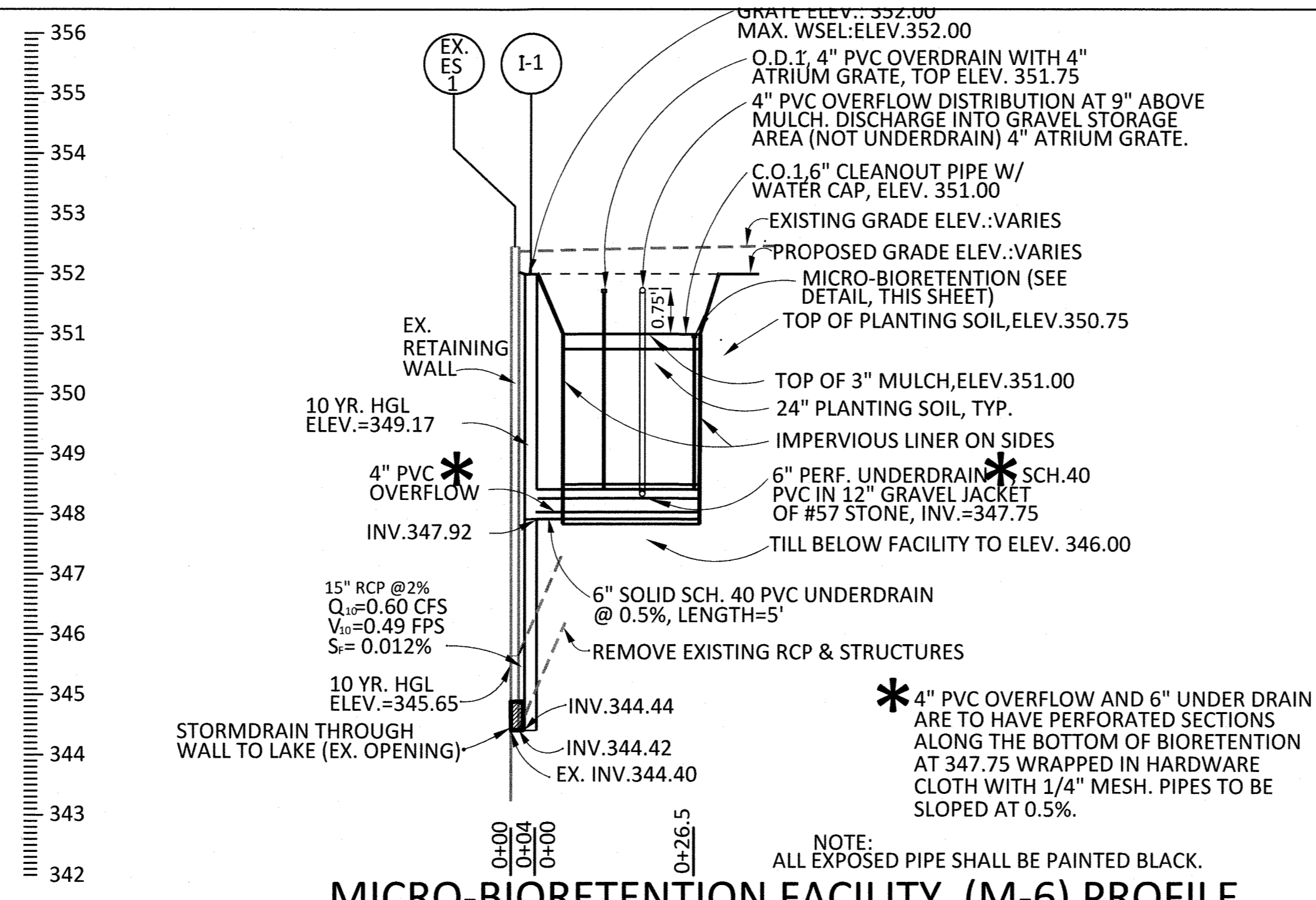
NO.	REVISION	DATE
2	ADD PARKING AND ADD SHEETS 82-109	MARCH 2021

*PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 490, EXPIRATION DATE: JUNE 17, 2023.

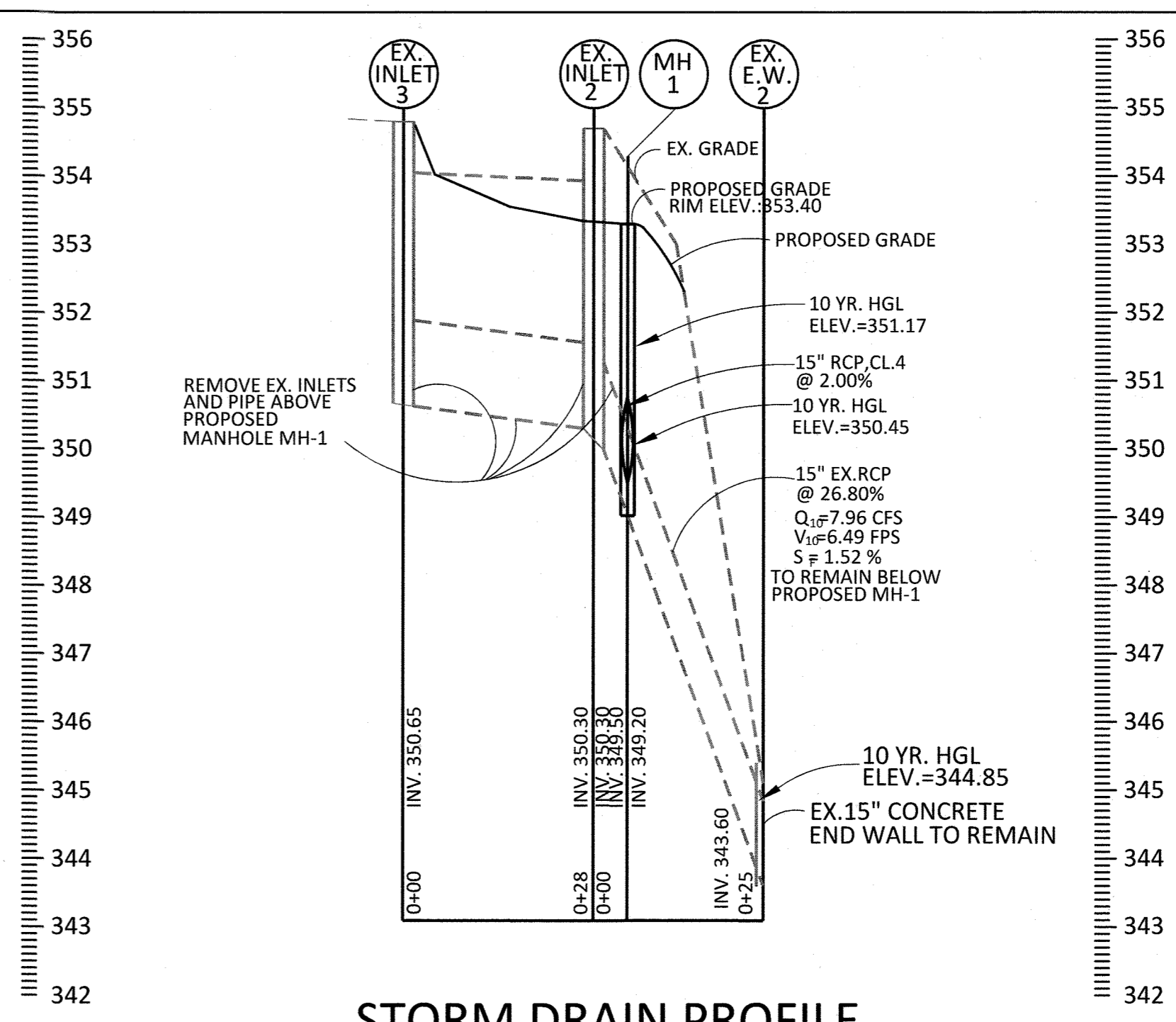
DESIGN PROFESSIONAL:
PAUL WALSKY
HOWARD CO. DEPT. OF REC. & PARKS
7120 OAKLAND MILLS ROAD
COLUMBIA, MARYLAND 21046
TELEPHONE NUMBER:



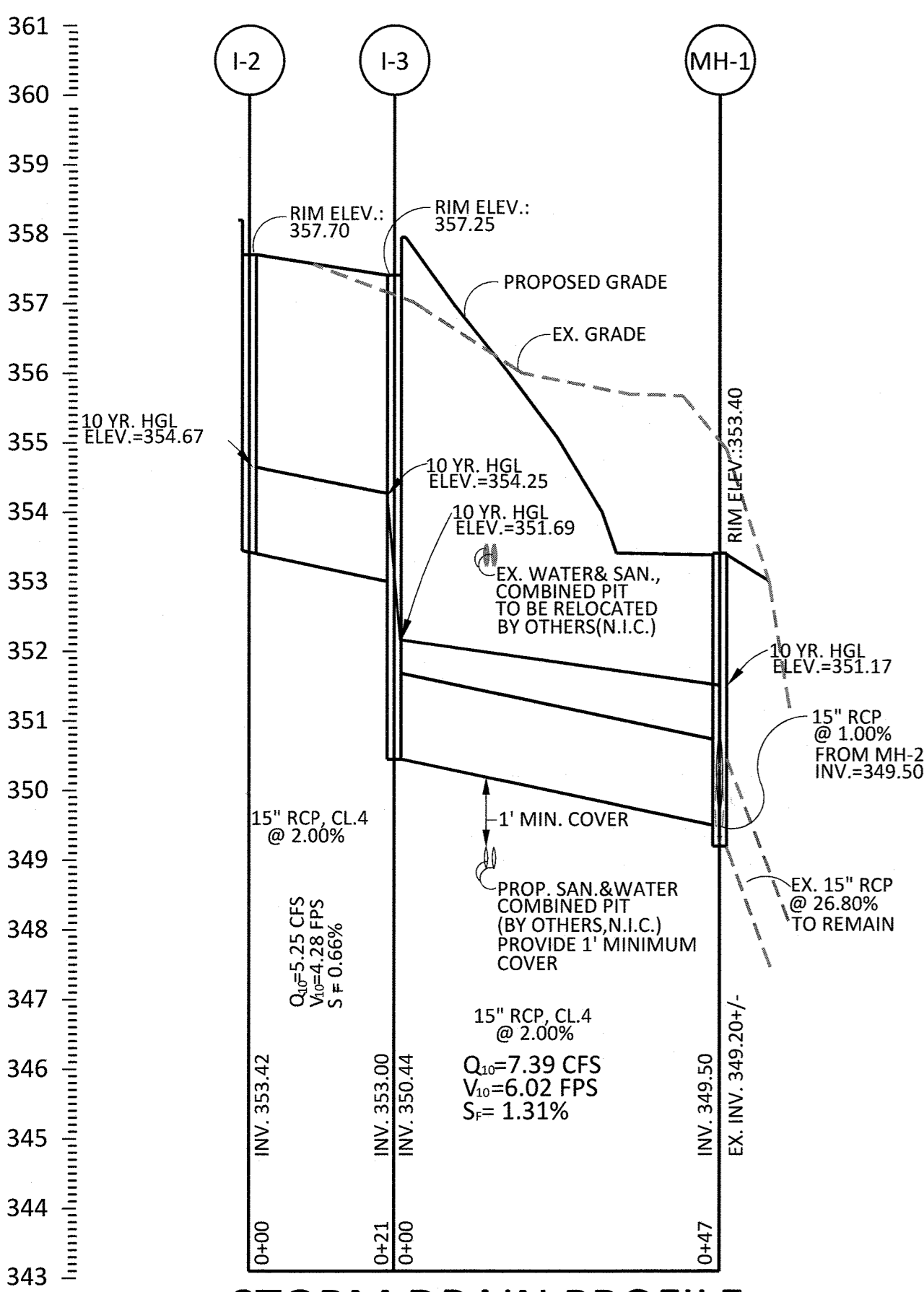
EXISTING STORM DRAIN PROFILE
 HORIZONTAL SCALE: 1"=20'
 VERTICAL SCALE: 1"=2'



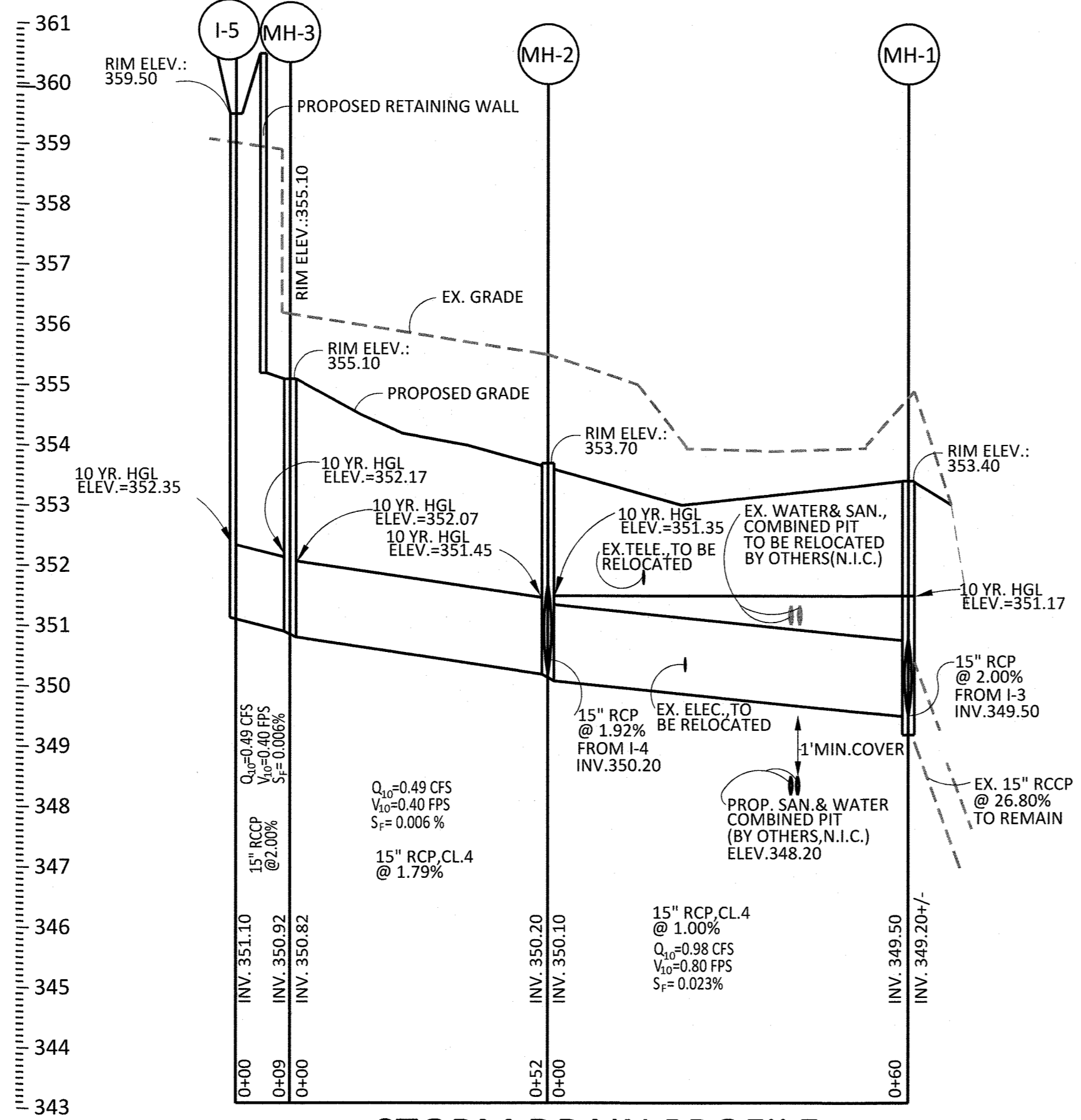
MICRO-BIORETENTION FACILITY (M-6) PROFILE
 HORIZONTAL SCALE: 1"=20'
 VERTICAL SCALE: 1"=2'



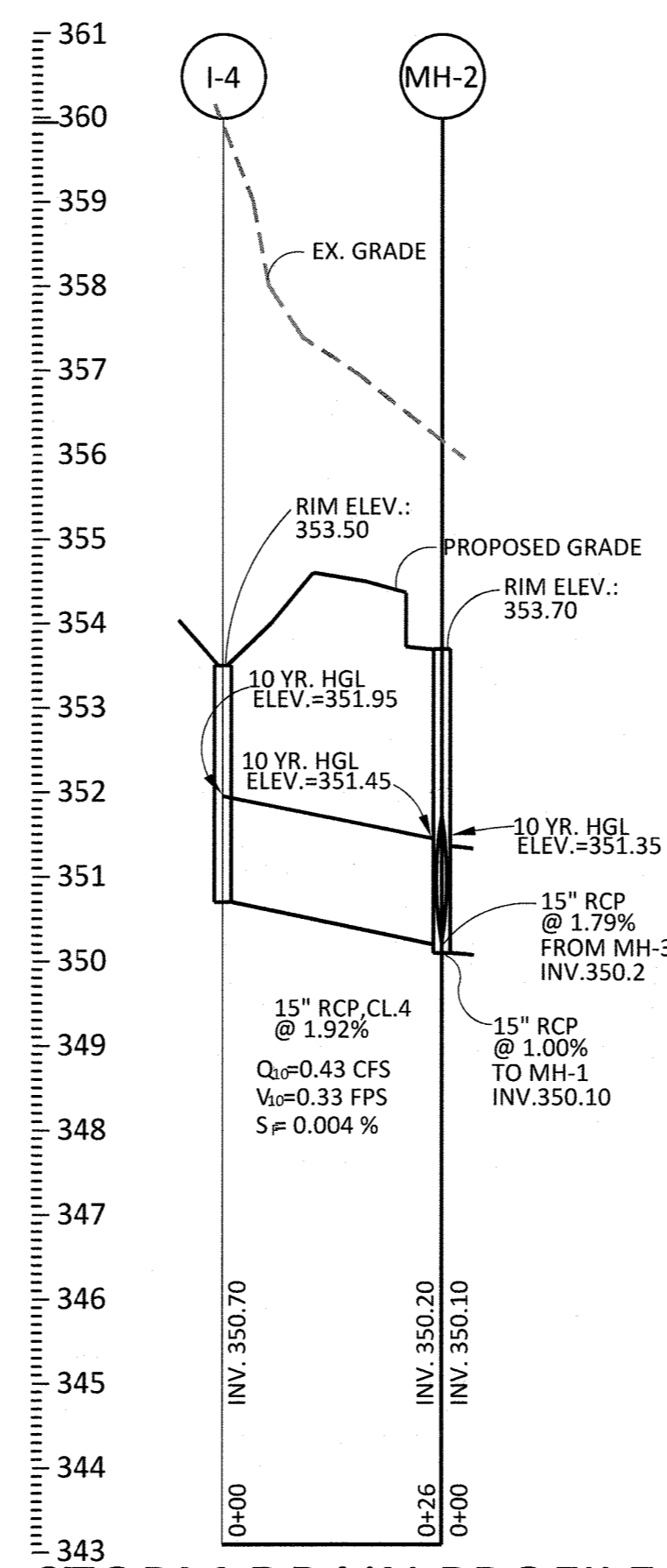
STORM DRAIN PROFILE
 HORIZONTAL SCALE: 1"=20'
 VERTICAL SCALE: 1"=2'



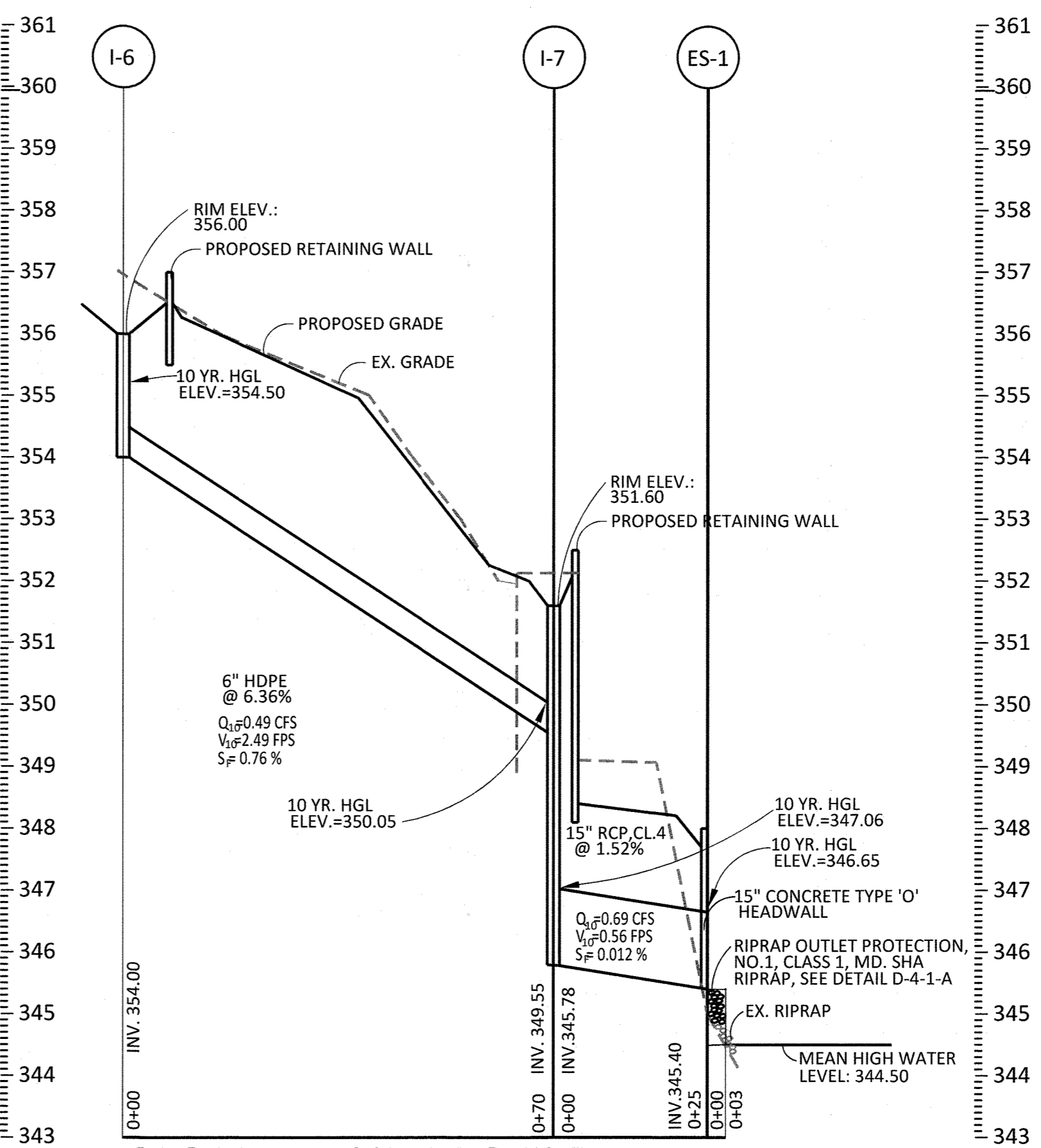
STORM DRAIN PROFILE
 HORIZONTAL SCALE: 1"=20'
 VERTICAL SCALE: 1"=2'



STORM DRAIN PROFILE
 HORIZONTAL SCALE: 1"=20'
 VERTICAL SCALE: 1"=2'



STORM DRAIN PROFILE
 HORIZONTAL SCALE: 1"=20'
 VERTICAL SCALE: 1"=2'



STORM DRAIN PROFILE
 HORIZONTAL SCALE: 1"=20'
 VERTICAL SCALE: 1"=2'

STORM DRAIN NOTE
 1) SEE SCHEDULES ON SHEET 95.

APPROVED: DEPARTMENT OF PLANNING & ZONING
 Chief, Development Engineering Division: [Signature] Date: 7/1/21
 Chief, Division of Land Development: [Signature] Date: 7/23/21
 Director: [Signature] Date: 7/23/21



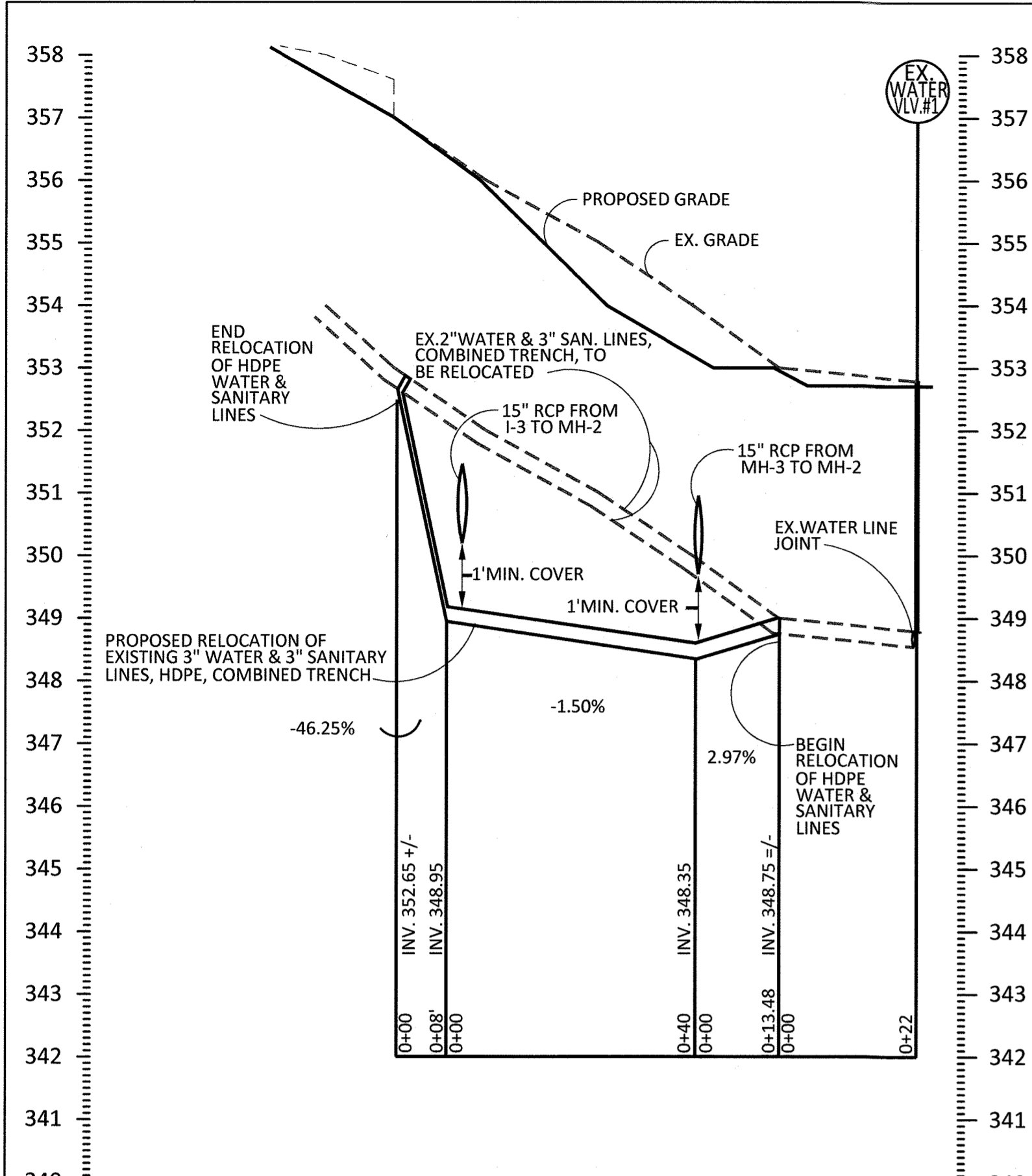
"PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 22385, EXPIRATION DATE: JUNE 25, 2023.



DESIGN PROFESSIONAL:
 MARSHALL N. DAVIDSON
 HOWARD CO. DEPT. OF PUBLIC WORKS
 7125 RIVERWOOD DRIVE, SUITE B
 COLUMBIA, MARYLAND 21046
 TELEPHONE NUMBER: 410 313-5806

NO.	REVISION	DATE
2	ADA PARKING AND ADD SHEETS 82-109	MARCH 2021

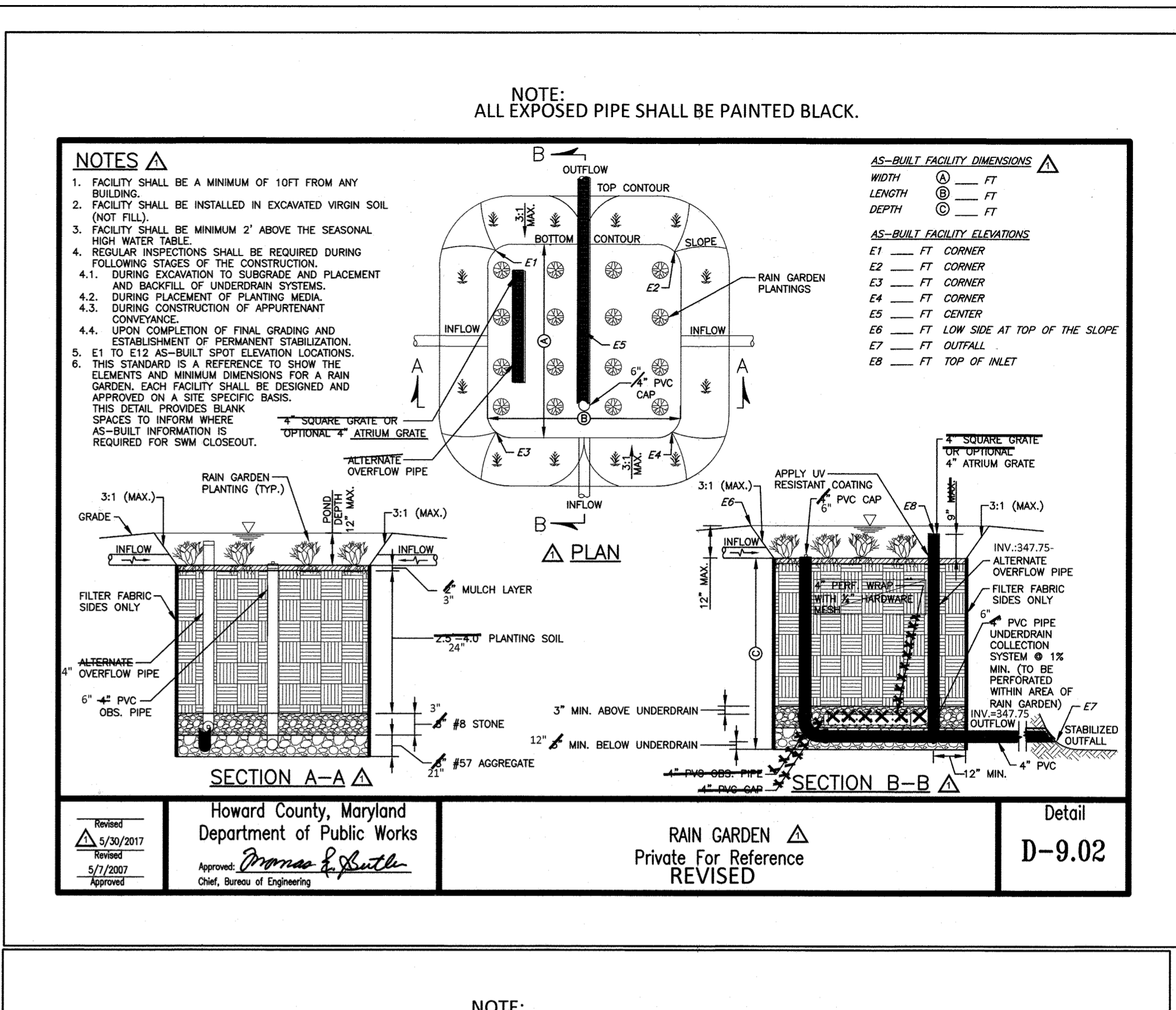
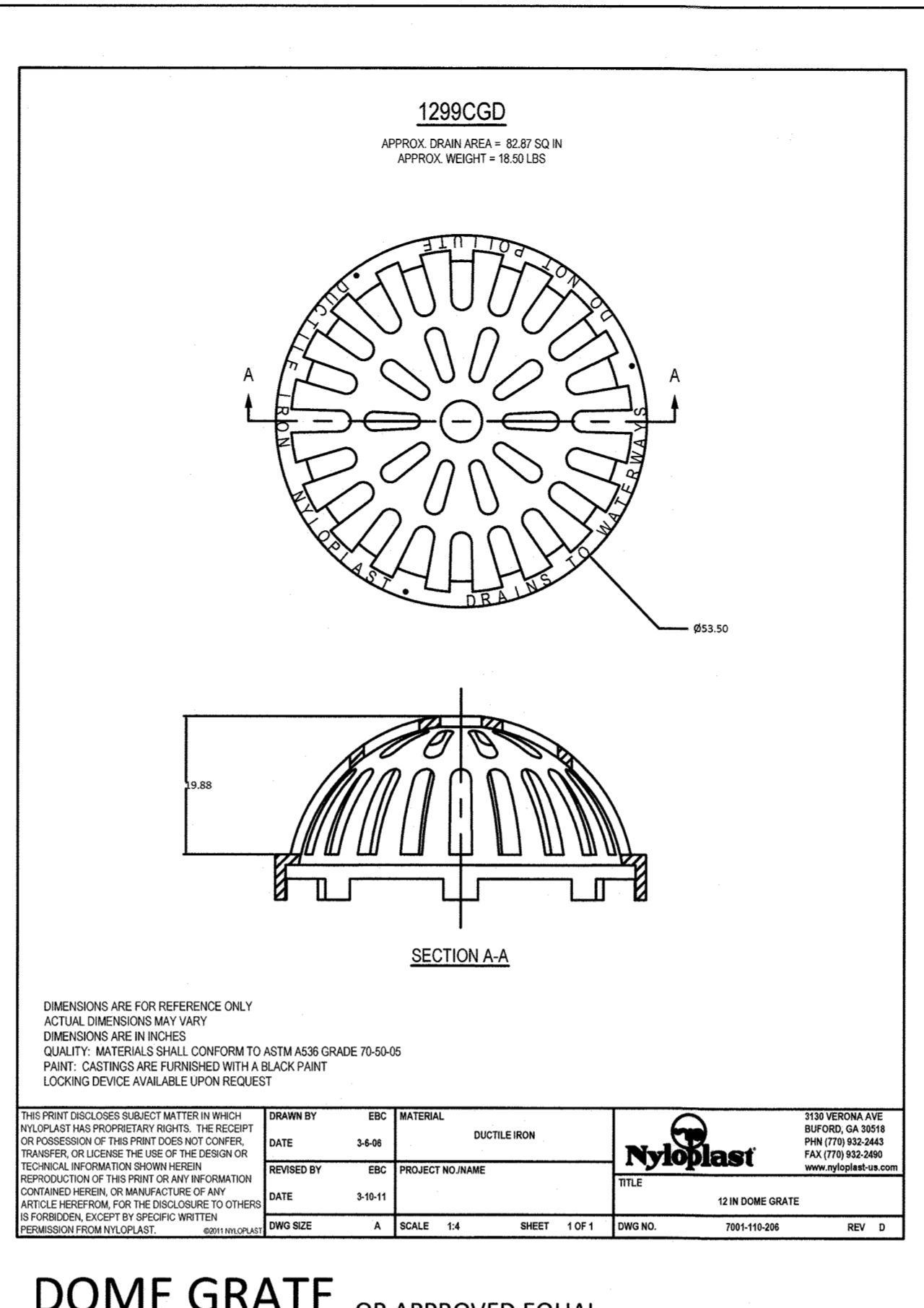
STORM DRAIN & MICRO BIO-RETENTION PROFILES
Centennial Park
 ADA IMPROVEMENTS - BOAT HOUSE AREA
 10,000 CLARKSVILLE PIKE, ELICOTT CITY, MARYLAND 21042 ZONING: R-20 ELEC. DIST.: 1
 A) MAP 30 GRID 7 PARCEL 9 L.F. 464/78 TAX ACCOUNT: 2-223082, 137.53 ACRES
 B) MAP 30 GRID 2 PARCEL 10 L.F. 885/76 TAX ACCOUNT: 2-218690, 104.36 ACRES
 OWNER: HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS JULY 7, 2021 SHEET 94 OF 109



BORING LOG
 Report No. 1299CGD Date 1/12/2021
 Client: Howard County Government
 Project: Centennial Park - BIoretention Facility
 Boring No. B-1 (1 of 7) Total Depth 8.5 Elevation 352.5 Location Site Boring Location Plan
 Type of Boring: Auger Start Date 9/17/2020 Completed 9/17/2020 Driller: Luoma & G. Dumas

Elevation	Depth	DESCRIPTION OF MATERIALS (Classification)	Sample Depth (Feet)	Moisture Content (%)	Remarks
352.5	0.0	Grass with topsoil and root (organic)			
352.25	0.25	Brown Fine to medium SAND with some clay and little silt, wet to saturated (SM-SC, Sandy Clay Loam)			Groundwater was encountered at 8 feet
349.5	3.0		3.0		
347.0	5.5		5.5	24.9	
344.5	8.0		8.0		
341.0	8.5		8.5		

End of Boring



WATER & SANITARY RELOCATION PROFILE
 HORIZONTAL SCALE: 1"=20'
 VERTICAL SCALE: 1"=2'
 (BY OTHERS)

BIORETENTION FACILITY BORING LOG B-1
 NOT TO SCALE

DOME GRATE OR APPROVED EQUAL
 NOT TO SCALE

RAIN GARDEN Private For Reference
 REVISED
 Detail D-9.02

STORM DRAIN NOTES

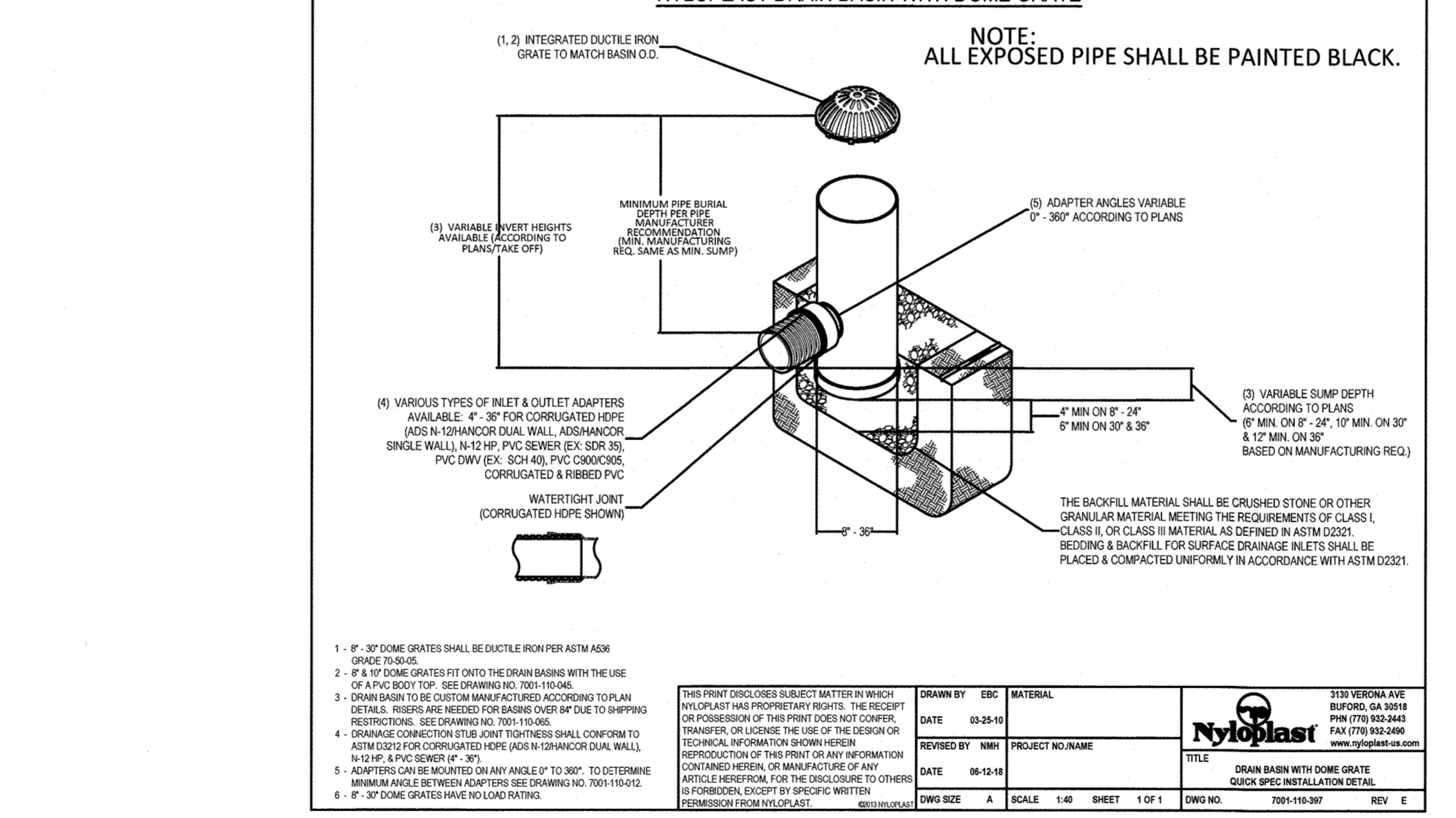
- LENGTH OF PIPE IS LINEAR FEET ONLY.
- HDPE TO HAVE SMOOTH INTERIOR ONLY.
- CONTRACTOR SHALL INSTALL PIPE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- THE TOP OF GRATE ELEVATION IS LOCATED AT ITS CENTER.
- THE CONCRETE CURB SLOPE FOR 1-2 IS 1:4.

S.D. PIPE SCHEDULE

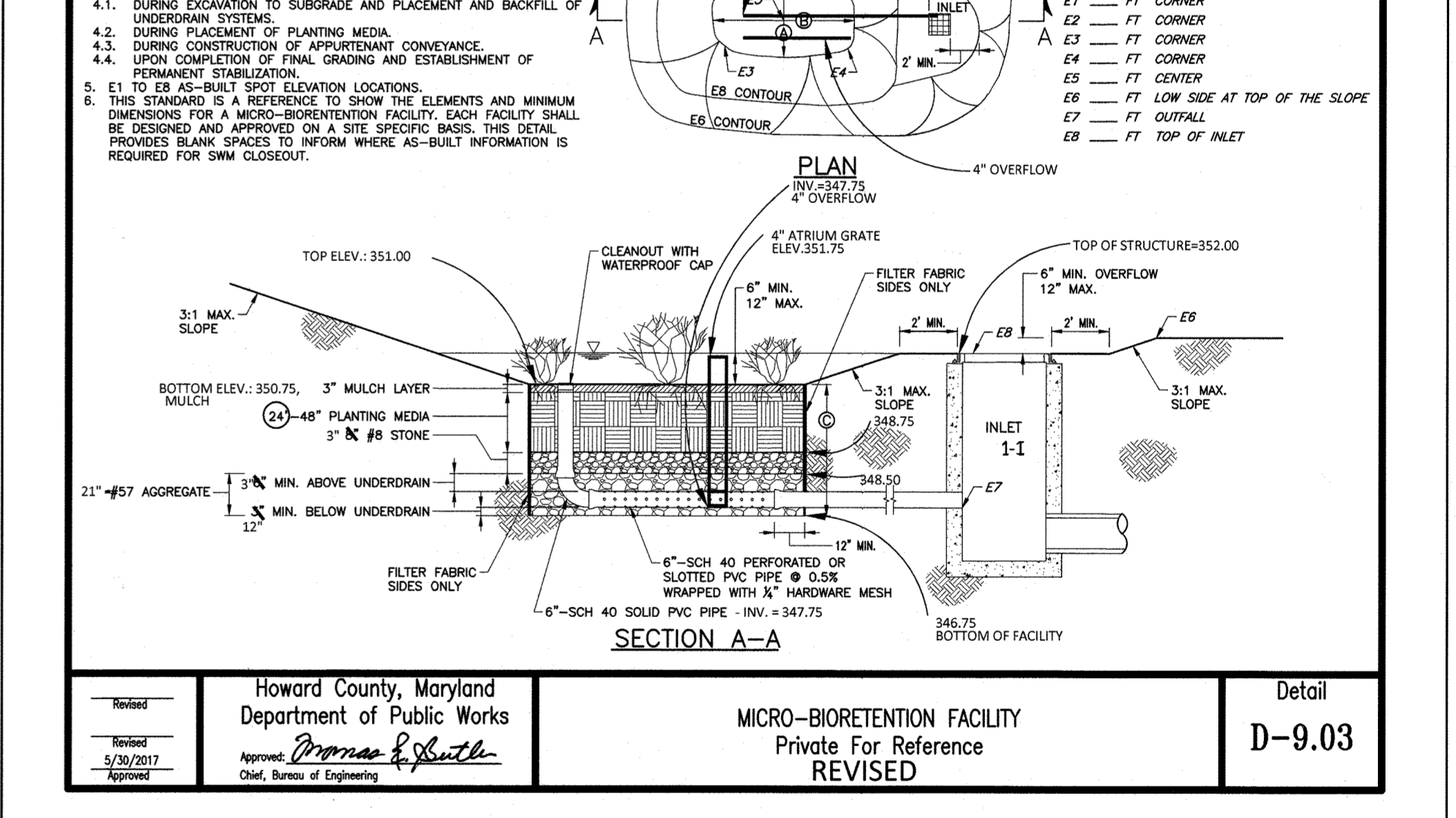
SIZE	TYPE	LENGTH OF PIPE
6"	SOLID PVC SCHEDULE 40	75
6"	PERFORATED PVC SCHEDULE 40	30
4"	SOLID PVC SCHEDULE 40	4
4"	PERFORATED PVC SCHEDULE 40E	27
15"	CLASS IV CONCRETE PIPE	244

STORM DRAIN (S.D.) STRUCTURE SCHEDULE

STRUCTURE NAME	TYPE	INVERT IN	INVERT OUT	TOP ELEVATION	LOCATION (CENTER OF STRUCTURE)	REMARKS
MH-1	G-5.14	349.50 & 349.50	349.20	353.40		'DOG HOUSE' MANHOLE
MH-2	G-5.12	350.20 & 350.20	350.10	353.70		48" DIA. PRECAST MANHOLE
MH-3	G-5.12	350.92	350.82	355.10		48" DIA. PRECAST MANHOLE
1-1	D-4.11	347.92	344.44	352.00		TYPE 'D' INLET WITH 12" DOME GRATE
1-2	MD. 374.71		353.42	357.70		PRECAST STANDARD TYPE "S" COMBINATION INLET DOUBLE GRATE TANDEM
1-3	D-4.26	353.00	350.44	357.25		TYPE "S" COMBINATION INLET
1-4	D-4.12		350.70	353.50		YARD INLET PRECAST
1-5	SEE DETAILS, THIS SHEET		351.10	359.50		12" GRATE WITH 12" NYLOPLAST DRAIN BASIN OR APPROVED EQUAL
1-6	SEE DETAILS, THIS SHEET		354.00	356.00		12" GRATE WITH 12" NYLOPLAST DRAIN BASIN OR APPROVED EQUAL
1-7	D-4.11	349.55	345.78	351.60		TYPE 'D' INLET WITH 12" DOME GRATE
ES-1	D-5.41 & D-5.42		345.40			TYPE 'O' HEADWALL CIRCULAR PIPE OUTFALL



DRAIN BASIN WITH DOME GRATE OR APPROVED EQUAL
 NOT TO SCALE



MICRO-BIORETENTION FACILITY Private For Reference
 REVISED
 Detail D-9.03



"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. 22388, EXPIRATION DATE: JUNE 25, 2023."

DESIGN PROFESSIONAL:
 MARSHALL N. DAVIDSON
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 7125 RIVERWOOD DRIVE, SUITE B
 COLUMBIA, MARYLAND 21046
 TELEPHONE NUMBER: 410 313-5806

NO.	REVISION	DATE
2	ADA PARKING AND ADD SHEETS 82-109	MARCH 2021

WATER & SANITARY PROFILE, MICRO-BIORETENTION DETAILS & STORM DRAIN SCHEDULE
Centennial Park
ADA IMPROVEMENTS - BOAT HOUSE AREA
 10,000 CLARKSVILLE PIKE, ELLICOTT CITY, MARYLAND 21042 ZONING: R-20 ELEC. DIST.: 1
 A) MAP 30 GRID 7 PARCEL 9 L.F. 464/78 TAX ACCT: 2-22302 1.37 5.3 ACRES
 B) MAP 30 GRID 2 PARCEL 10 L.F. 885/76 TAX ACCT: 2-21890, 104.36 ACRES
 OWNER: HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS JUNE 8, 2021 SHEET 95 OF 109

APPROVED: DEPARTMENT OF PLANNING & ZONING

Chief, Development Engineering Division 7/21/21
 Chief, Division of Land Development 7/23/21
 Director 7/23/21

MATCH LINE THIS SHEET

NOTE

FOR PLANT LIST AND DETAILS SEE SHEET 97.

LANDSCAPE NOTES

- 1) ALL PLANT MATERIALS SHALL BE NURSERY GROWN AND SHALL CONFORM TO AMERICAN ASSOCIATION OF NURSERYMAN, INC. STANDARDS. ALL PLANTING PROCEDURES AND SPECIFICATIONS SHALL CONFORM TO "SPECIFICATION GUIDELINES" BY THE LANDSCAPE CONTRACTORS ASSOCIATION OF MARYLAND, D.C. & VIRGINIA. LATEST EDITION.
- 3) THE CONTRACTOR SHALL CONTACT "MISS UTILITY" FOR UNDERGROUND UTILITY LOCATIONS AT LEAST 72 HOURS PRIOR TO THE COMPLETION DATE.
- 4) ALL PLANTS SHALL BE GUARANTEED BY THE CONTRACTOR FOR ONE YEAR FOLLOWING THE INSTALLATION COMPLETION DATE.
- 5) ALL PLANT LOCATIONS SHALL BE LOCATED BY THE CONTRACTOR AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- 6) ALL SUBSTITUTIONS NEED TO BE APPROVED BY THE LANDSCAPE ARCHITECT.

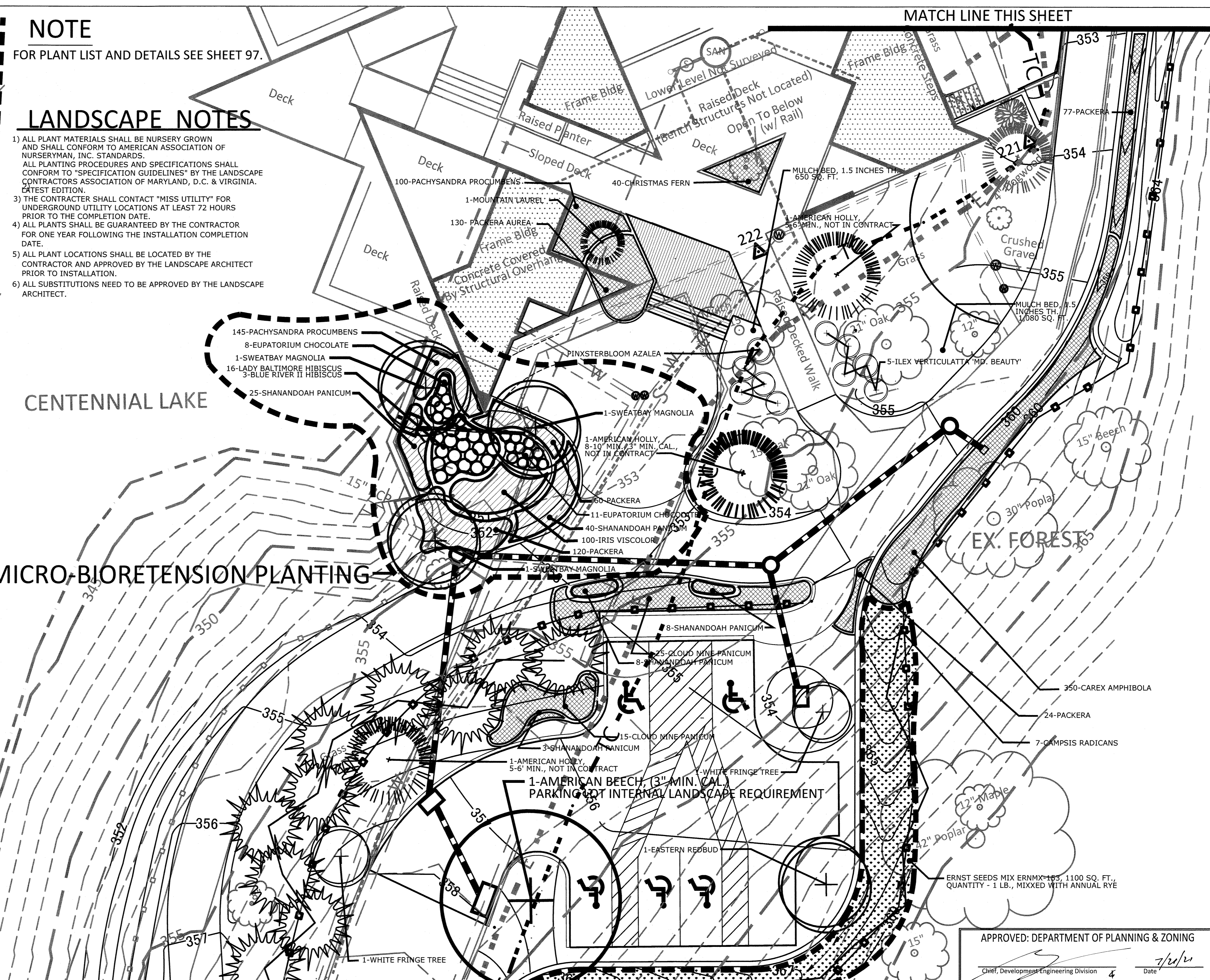
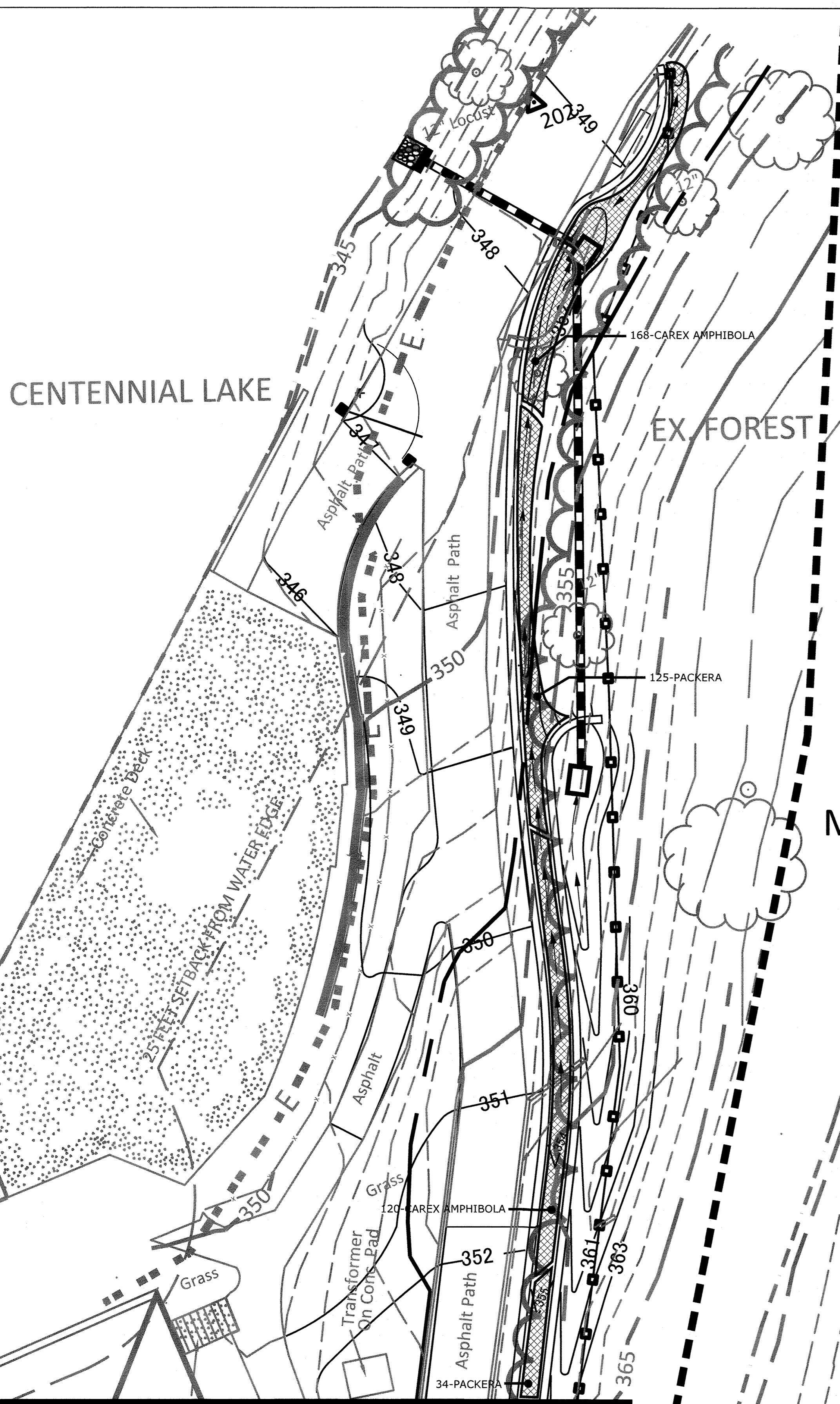
CENTENNIAL LAKE

EX. FOREST

CENTENNIAL LAKE

MICRO-BIORETENSION PLANTING

EX. FOREST

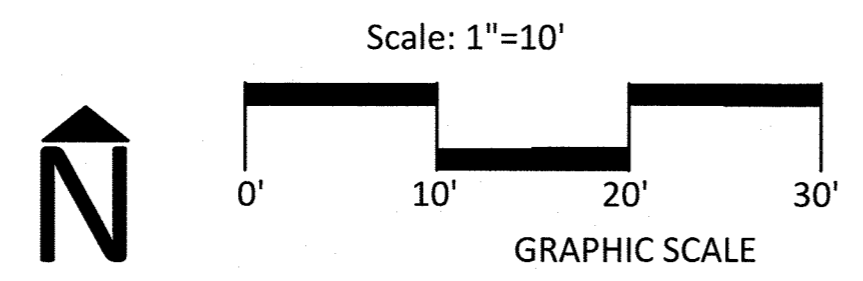


MATCH LINE THIS SHEET



PARKING LOT LANDSCAPE TABULATION

NUMBER OF PROPOSED PARKING SPACES	6
NUMBER OF TREES REQUIRED (1 SHADE TREE PER 20 PARKING SPACES)	1
TOTAL NUMBER OF TREES PROVIDED	1
SHADE TREES	0



DESIGN PROFESSIONAL:
PAUL WALSKY
HOWARD CO. DEPT. OF REC. & PARKS
7120 OAKLAND MILLS ROAD
COLUMBIA, MARYLAND 21046
TELEPHONE NUMBER: 410 313-1695



NO.	REVISION	DATE
2	ADA PARKING AND ADD SHEETS 82-109	MARCH 2021

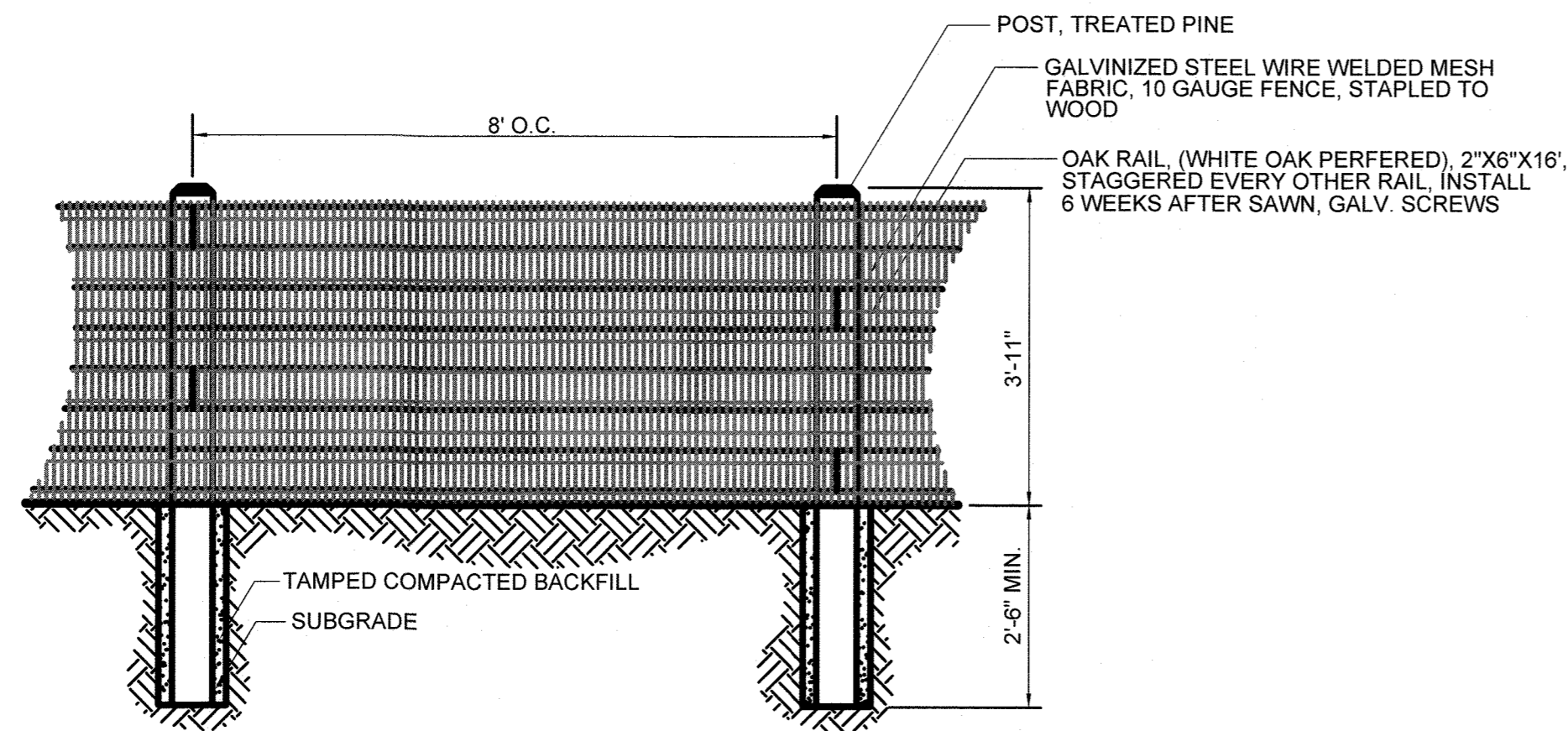
APPROVED: DEPARTMENT OF PLANNING & ZONING

Chief, Development Engineering Division 7/21/21
Date

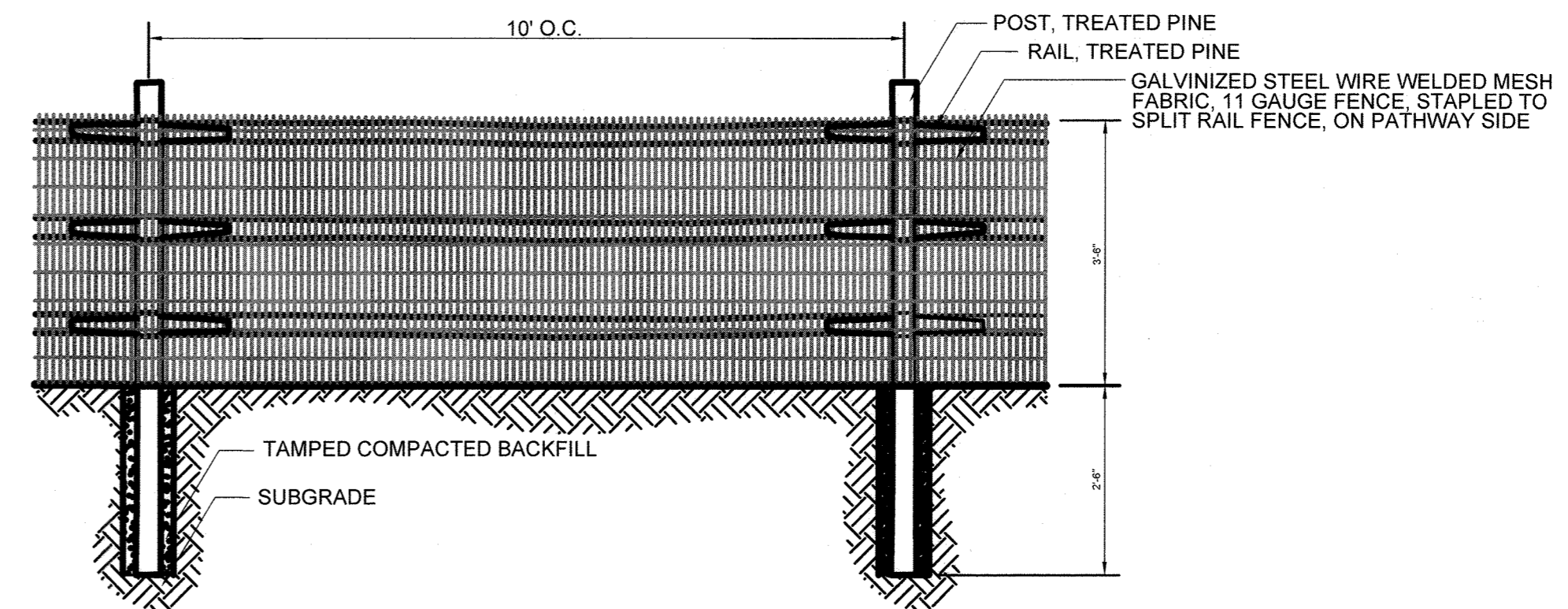
Chief, Division of Land Development 7/23/21
Date

Director 7/23/21
Date

PLANTING PLAN
Centennial Park
ADA IMPROVEMENTS - BOAT HOUSE AREA
10,000 CLARKSVILLE PIKE, ELLICOTT CITY, MARYLAND 21042. ZONING: R-20. ELEC. DIST.: 1
A) MAP 30 GRID 7 PARCEL 9 L.F.464/78 TAX ACCOUNT: 2-223082, 137.53 ACRES
B) MAP 30 GRID 2 PARCEL 10 L.F.885/76 TAX ACCOUNT: 2-218690, 104.36 ACRES
OWNER: HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS JULY 7, 2021 SHEET 96 OF 109



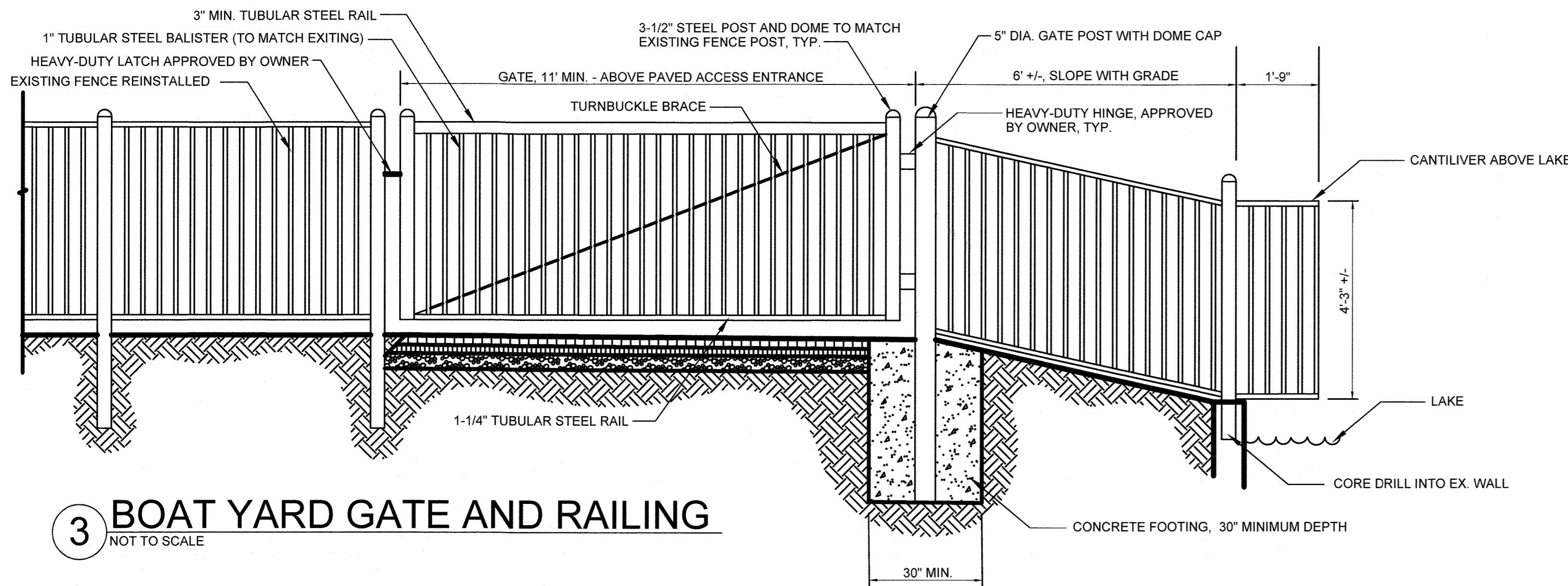
1 BOARD-RAIL FENCE WITH WIRE MESH FABRIC
NOT TO SCALE



2 SPLIT RAIL FENCE WITH WIRE MESH FABRIC
NOT TO SCALE

NOTES

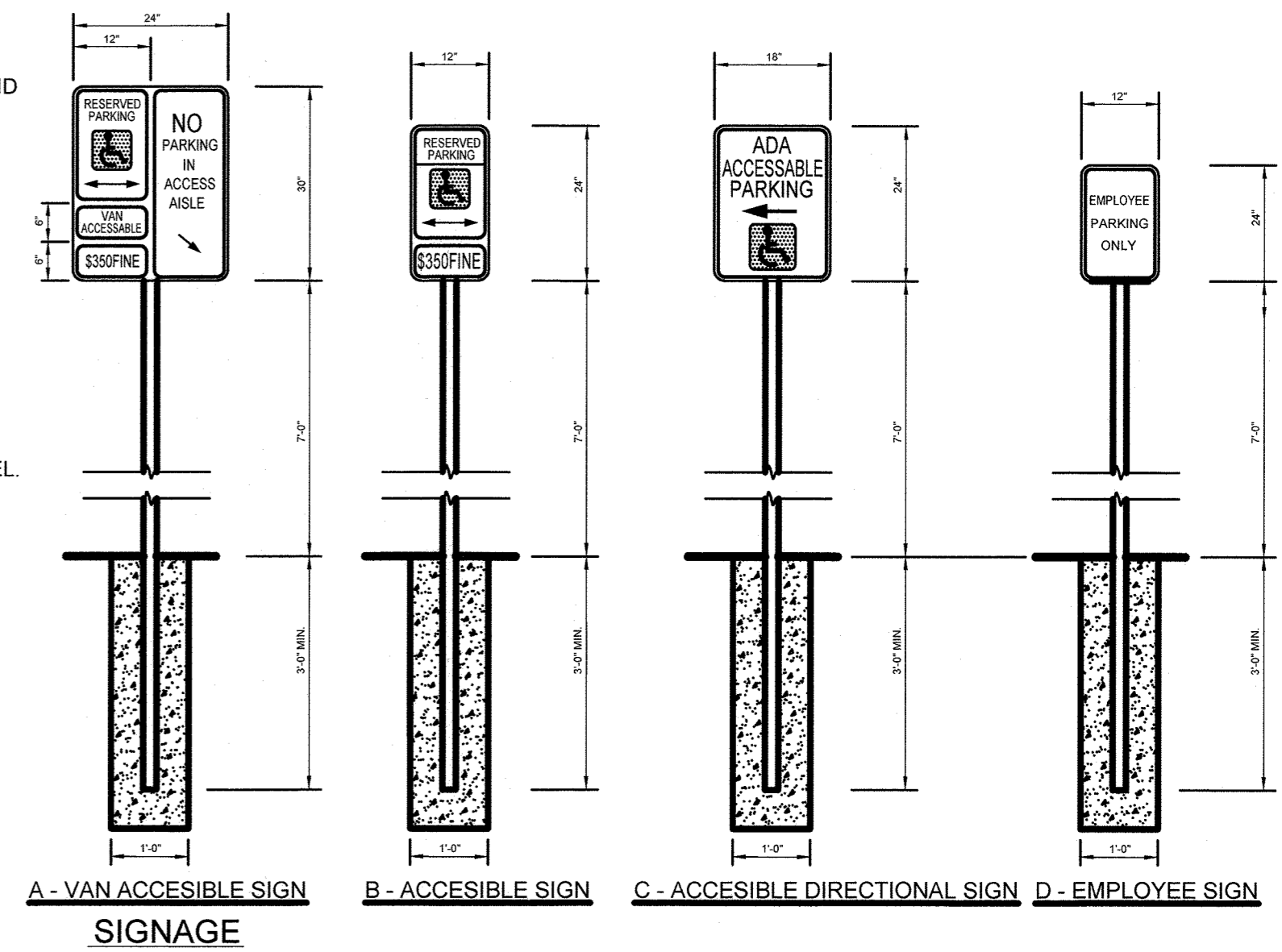
- 1) A SHOP DRAWING SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR APPROVAL. INCLUDE MANUFACTURER OF HINGE AND LATCH.
- 2) ALL MATERIALS SHALL BE POWDER COATED TO MATCH EXISTING RAILING.
- 3) THE PROPOSED GATE AND RAILING SHALL MATCH THE EXISTING RAILING. THE FABRICATOR SHALL VISIT THE SITE, INSPECT AND MEASURE THE EXISTING RAILING PRIOR TO PREPARING A SHOP DRAWING.
- 3) PROVIDE STEEL ROUND POST AND CONNECTION HARDWARE FOR GATE OPENING. IT SHALL BE ANCHORED INTO CONCRETE FOOTING.



3 BOAT YARD GATE AND RAILING
NOT TO SCALE

NOTES

- 1) THE DESIGN SHALL COMPLY TO MARYLAND ACCESSIBILITY CODE.
- 2) SIGNS SHALL BE 0.08 INCH THICK WITH 2 SINGLE POST MOUNTING HOLES.
- 3) ATTACH SIGN TO POST WITH STAINLESS STEEL TAMPER PROOF FASTENERS.
- 4) C - ADA ACCESSIBLE PARKING SIGN SHALL BE LOCATED NEAR THE ENTRANCE ROAD TO THE PARKING LOT NEAR THE EXISTING PARKING LOT. FINAL LOCATION APPROVED BY THE OWNER'S REPRESENTATIVE.
- 5) D - EMPLOYEE PARKING SIGN SHALL BE LOCATED AT THE END OF THE PARKING LOT DRIVING ISLE AS INDICATED ON THE PLAN. REPRESENTATIVE.
- 5) ALL POSTS SHALL BE BLACK ROUND STEEL.



4 PARKING AREA SIGNAGE
SCALE: 1" = 5'

APPROVED: DEPARTMENT OF PLANNING & ZONING

Chief, Development Engineering Division *[Signature]* 7/21/21
Date

Chief, Division of Land Development *[Signature]* 7/23/21
Date

Director *[Signature]* 7/23/21
Date

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 490, EXPIRATION DATE: JUNE 17, 2023.

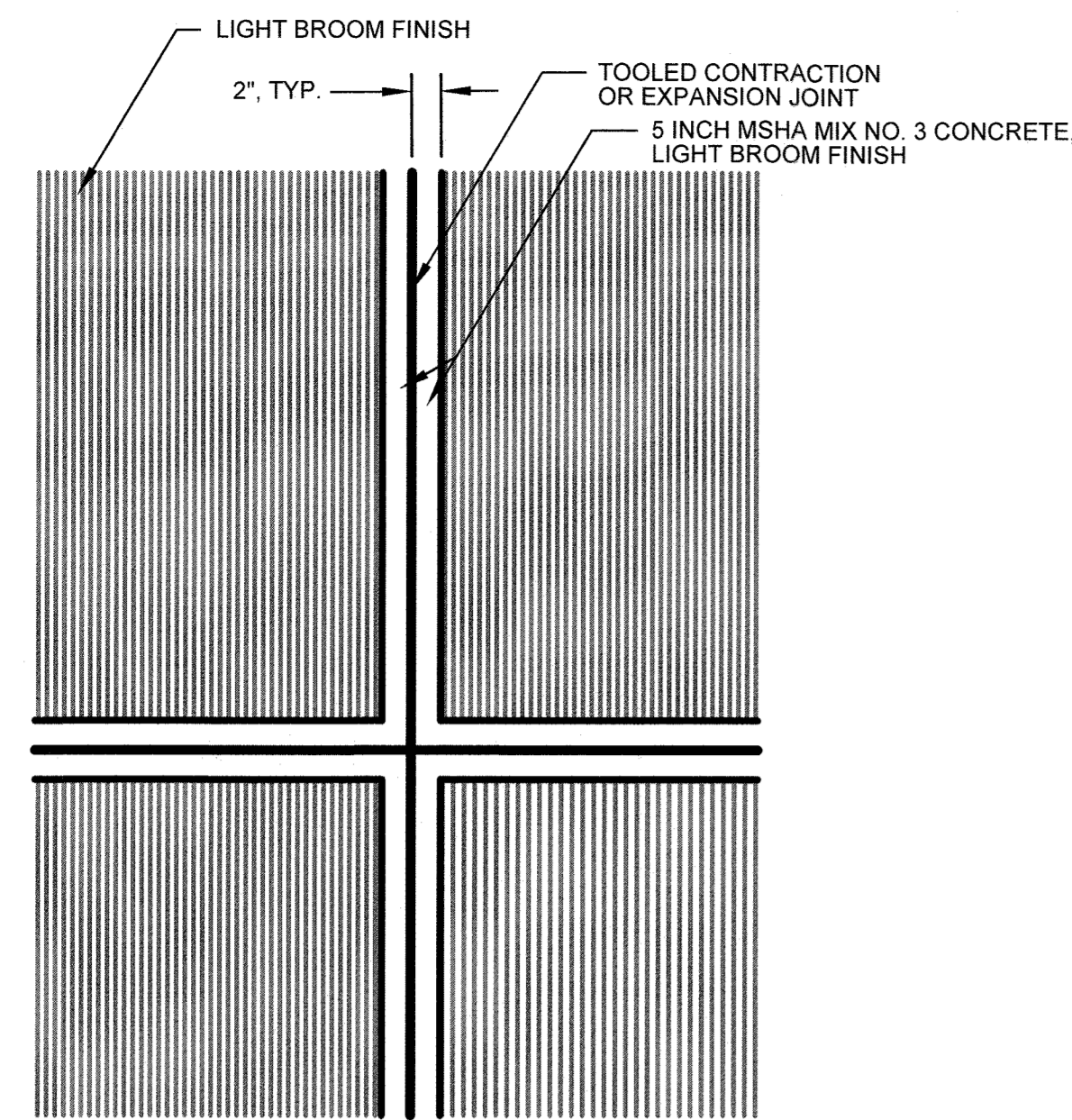
DESIGN PROFESSIONAL:
PAUL WALSKY
HOWARD CO. DEPT. OF REC. & PARKS
7120 OAKLAND MILLS ROAD
COLUMBIA, MARYLAND 21046
TELEPHONE NUMBER: 410 313-1695



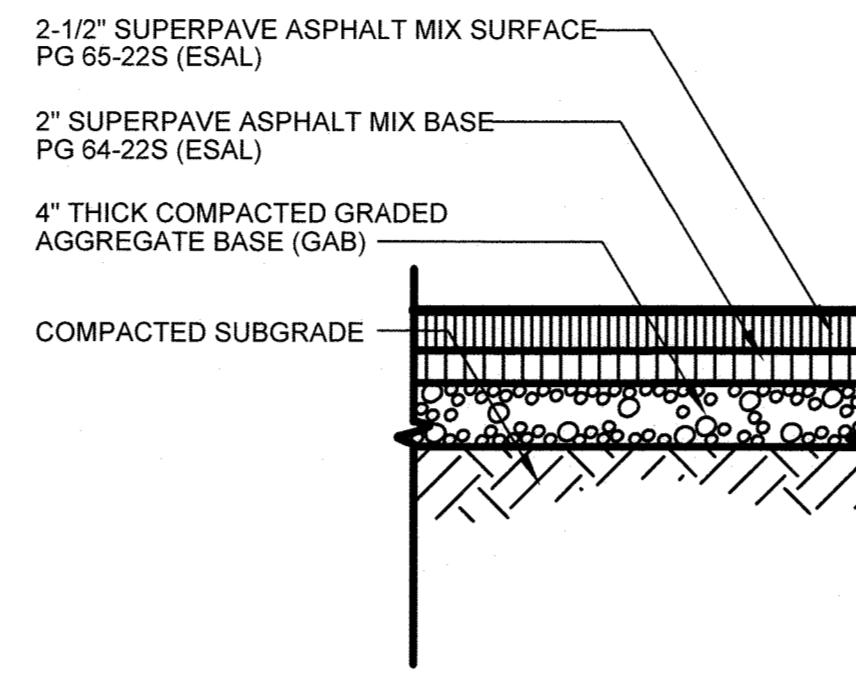
NO.	REVISION	DATE
2	ADA PARKING AND ADD SHEETS 82-109	MARCH 2021



DETAILS
Centennial Park
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OWNER: HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS JULY 7, 2021 SHEET 98 OF 109

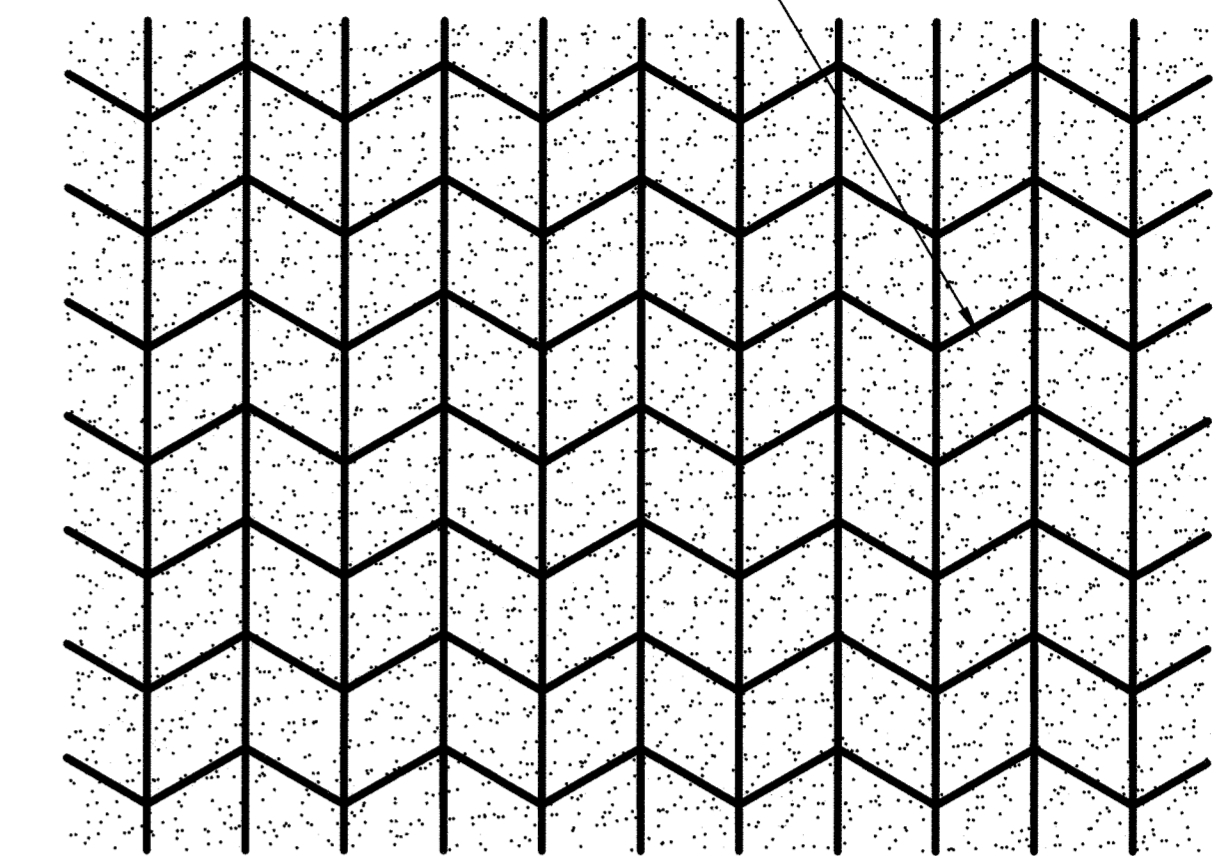


1 CONCRETE PAVEMENT JOINT PLAN
NOT TO SCALE

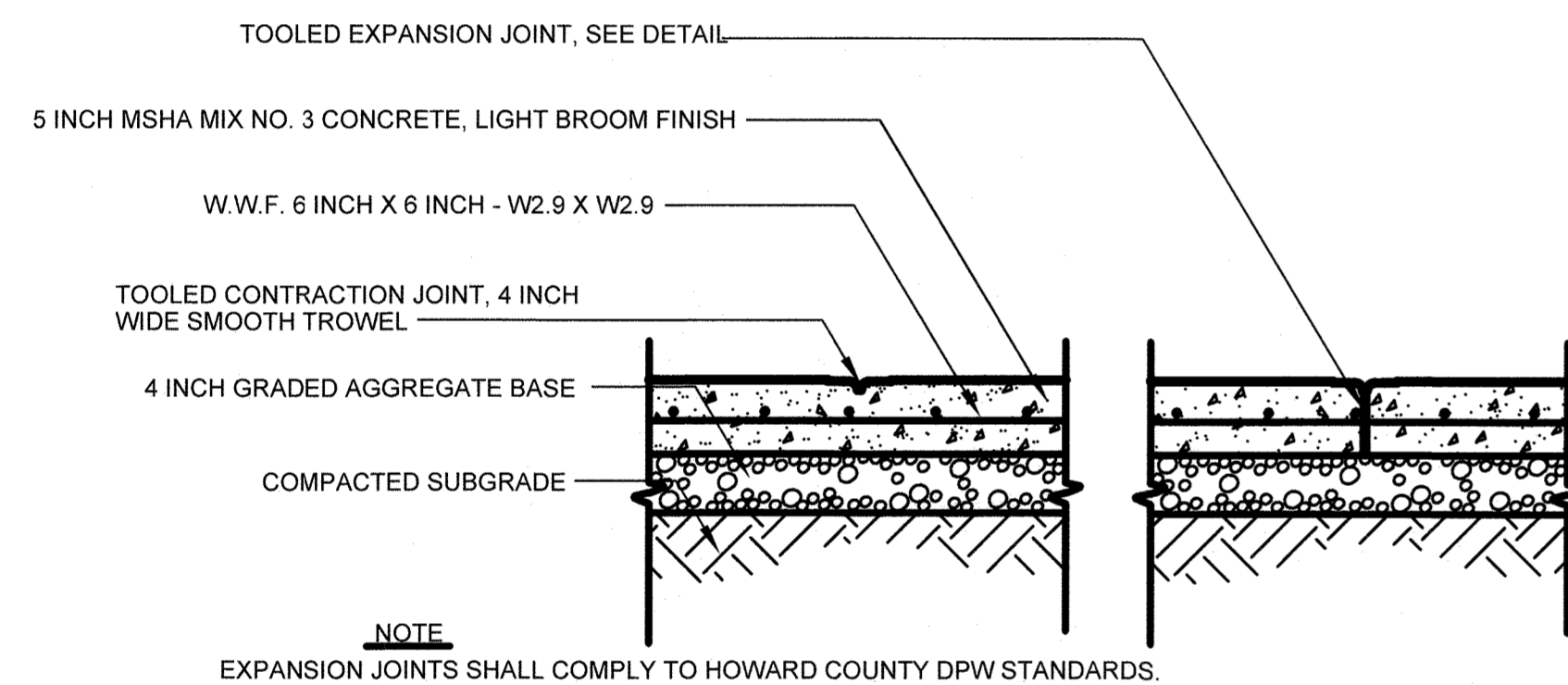


2 BITUMINOUS PAVING SECTION
NOT TO SCALE

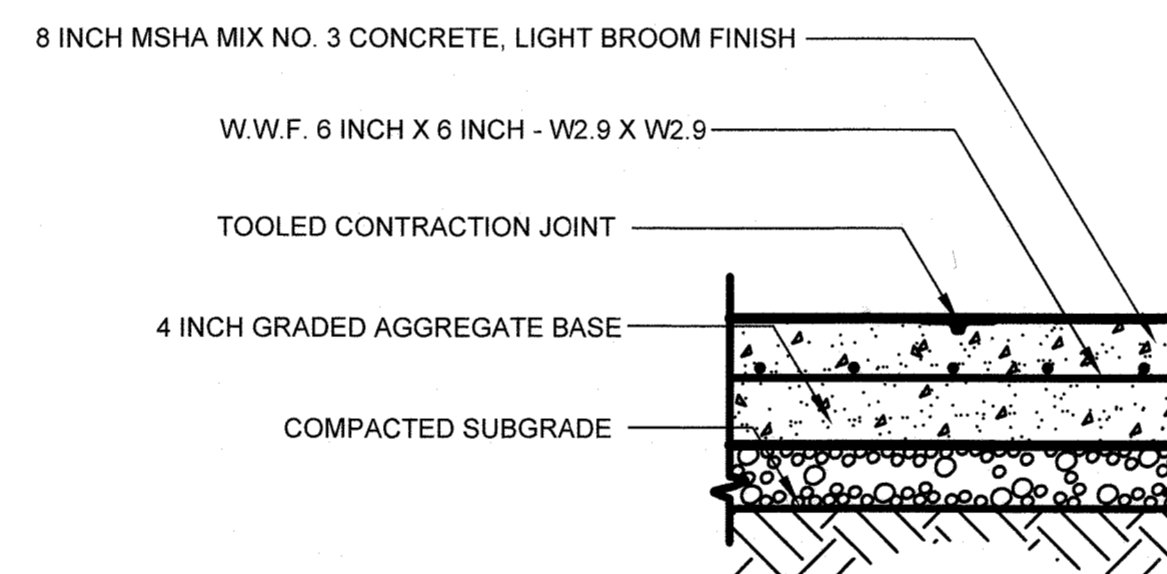
MODULAR CONCRETE PAVER (TECHO-BLOC: DIAMOND - 02 OR APPROVED EQUAL) ON ASPHALT SETTING BED. JOINTS BETWEEN PAVERS TO BE POLYMERIC SAND, FULLY SWEEPED AND VIBRATED TO FILL JOINTS.



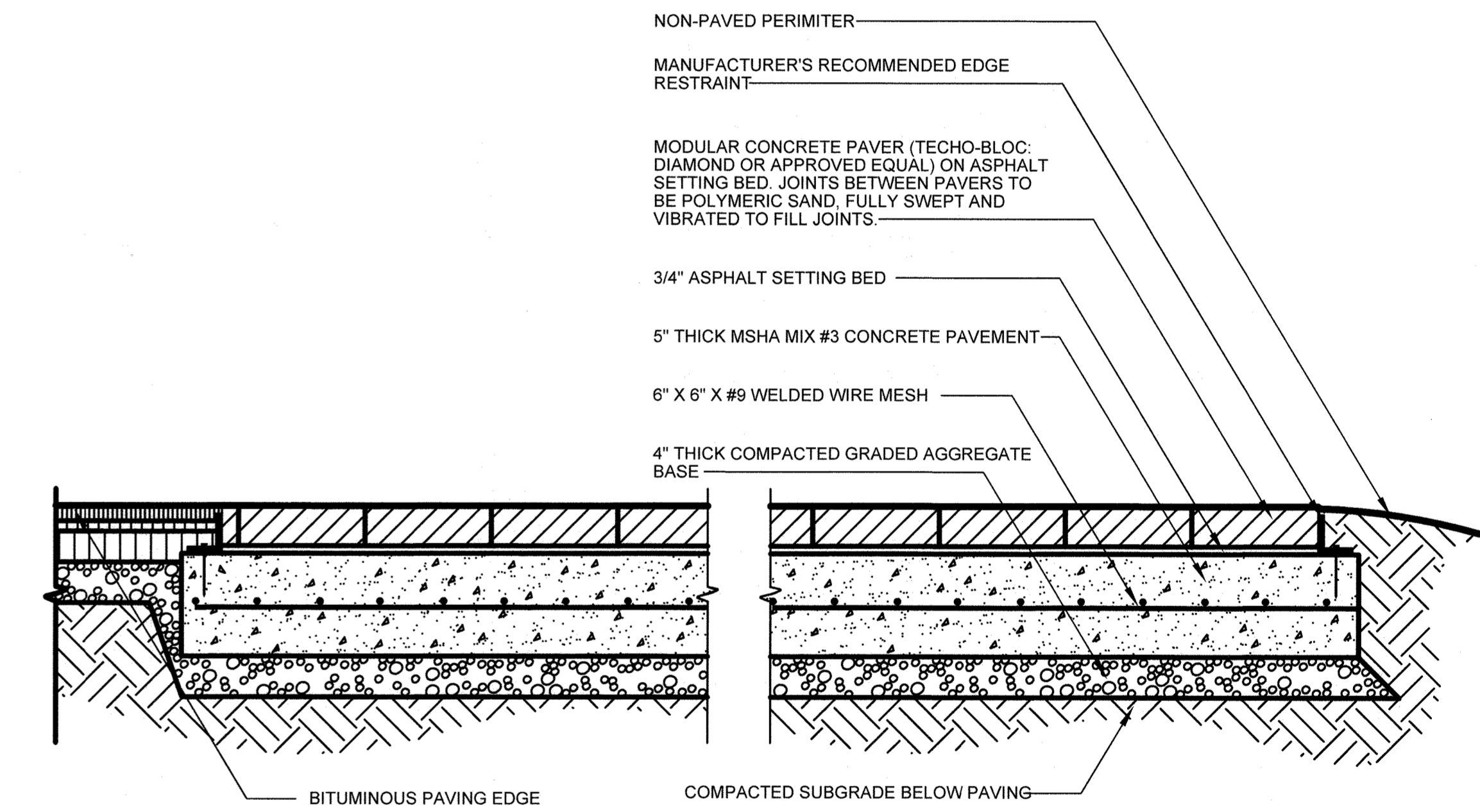
3 MODULAR CONCRETE PAVER PATTERN
NOT TO SCALE



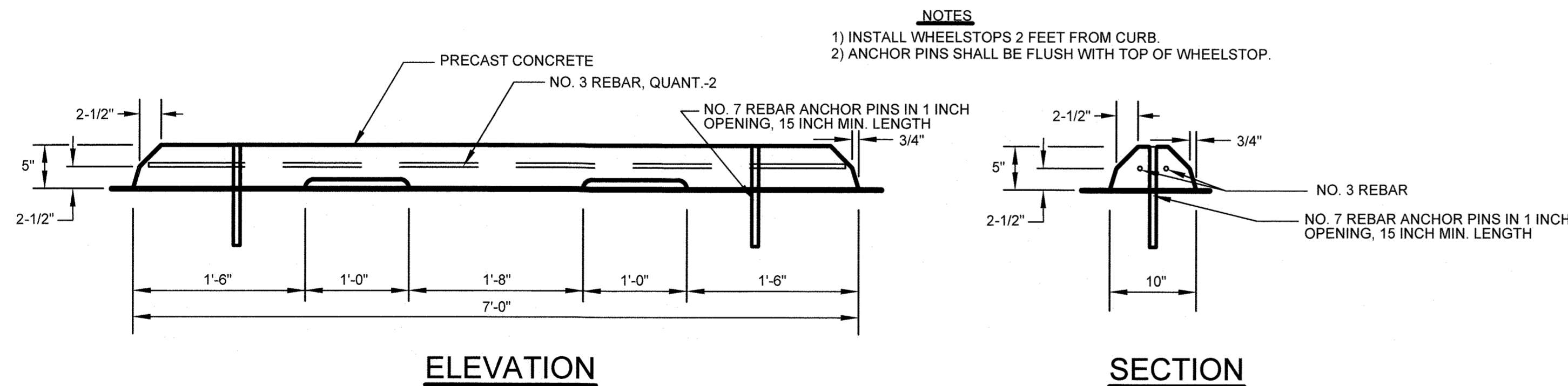
4 5 INCH CONCRETE PAVEMENT SECTION
NOT TO SCALE



5 8 INCH CONCRETE PAVEMENT SECTION
NOT TO SCALE



6 MODULAR CONCRETE PAVER SECTION
NOT TO SCALE

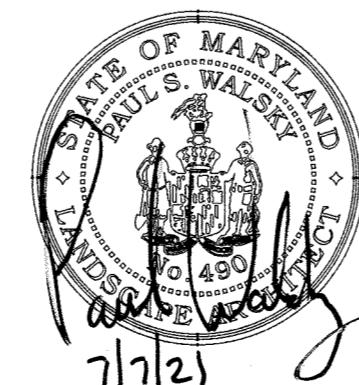


7 CONCRETE WHEELSTOP
NOT TO SCALE

NOTES
1) INSTALL WHEELSTOPS 2 FEET FROM CURB.
2) ANCHOR PINS SHALL BE FLUSH WITH TOP OF WHEELSTOP.

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TELEPHONE NUMBER: 410 313-1695



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APPROVED: DEPARTMENT OF PLANNING & ZONING

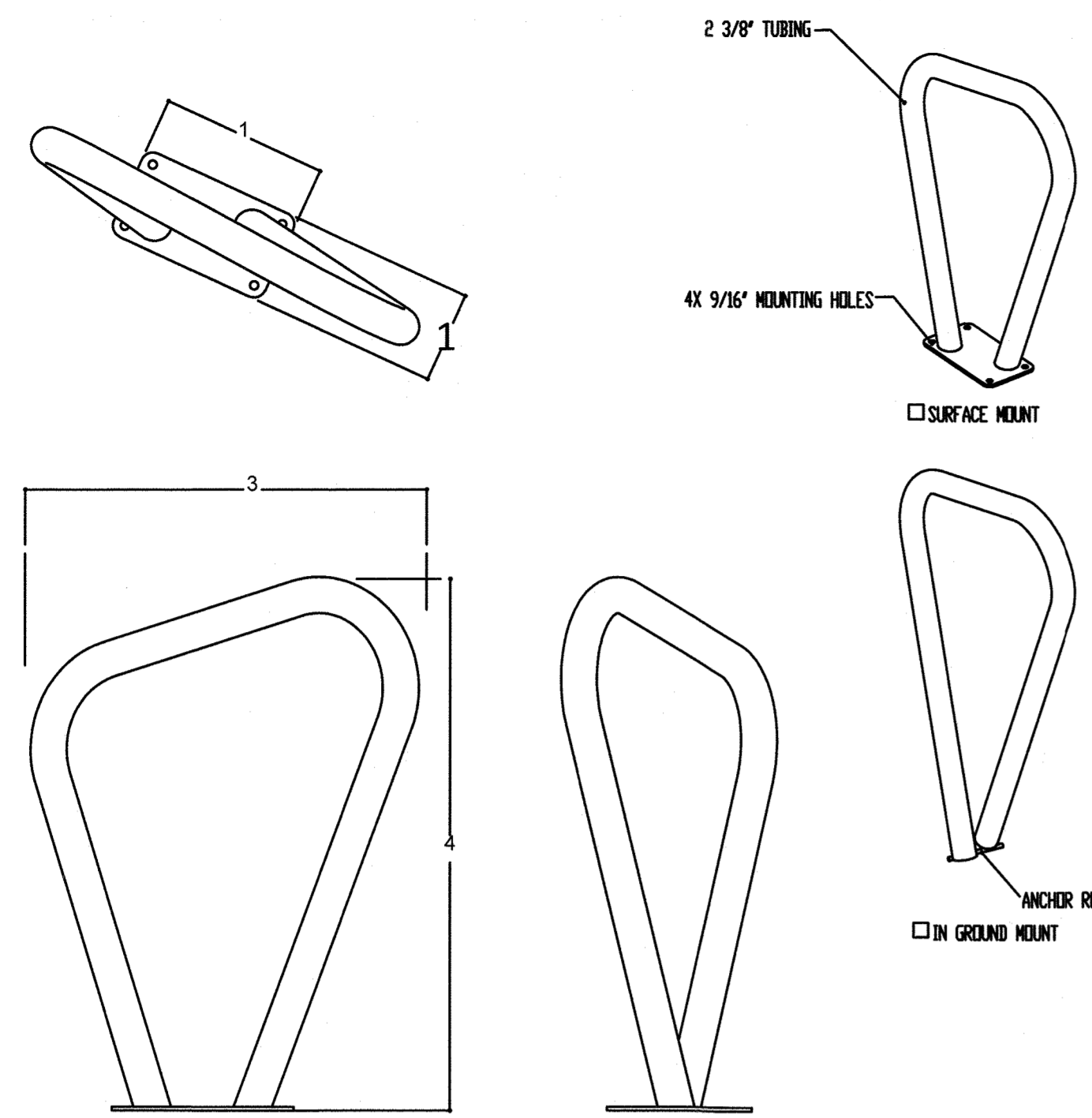
Chief, Development Engineering Division: *[Signature]* 7/2/21 Date

Chief, Division of Land Development: *[Signature]* 7/23/21 Date

Director: *[Signature]* 7/23/21 Date

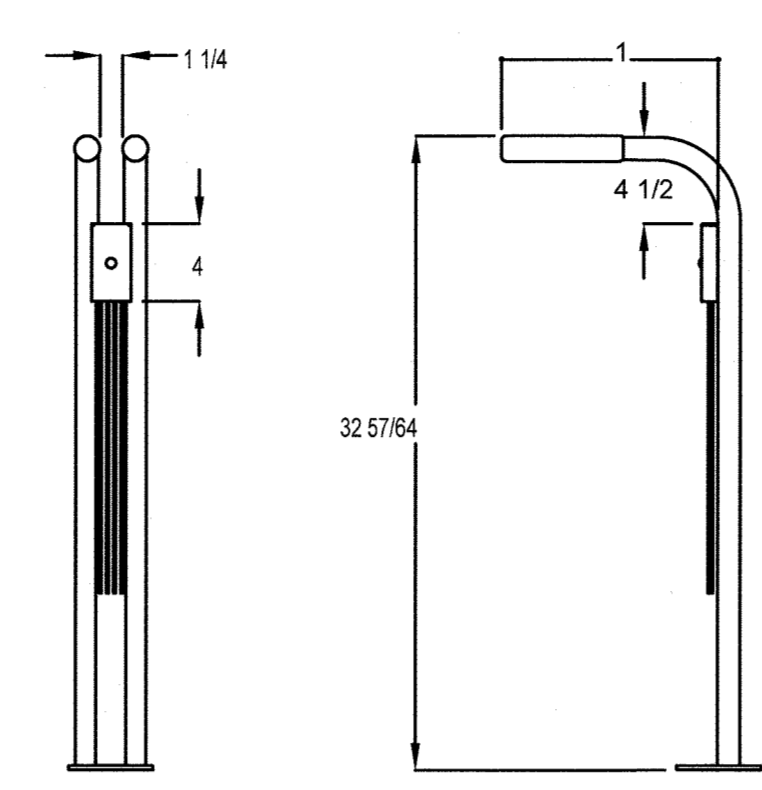


DETAILS
Centennial Park
ADA IMPROVEMENTS - BOAT HOUSE AREA
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OWNER: HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS JULY 7, 2021 SHEET 99 OF 109



1 BENCH
MADRAX LOFTY BIKE RACK LBR-2 OR APPROVED EQUAL
NOT TO SCALE

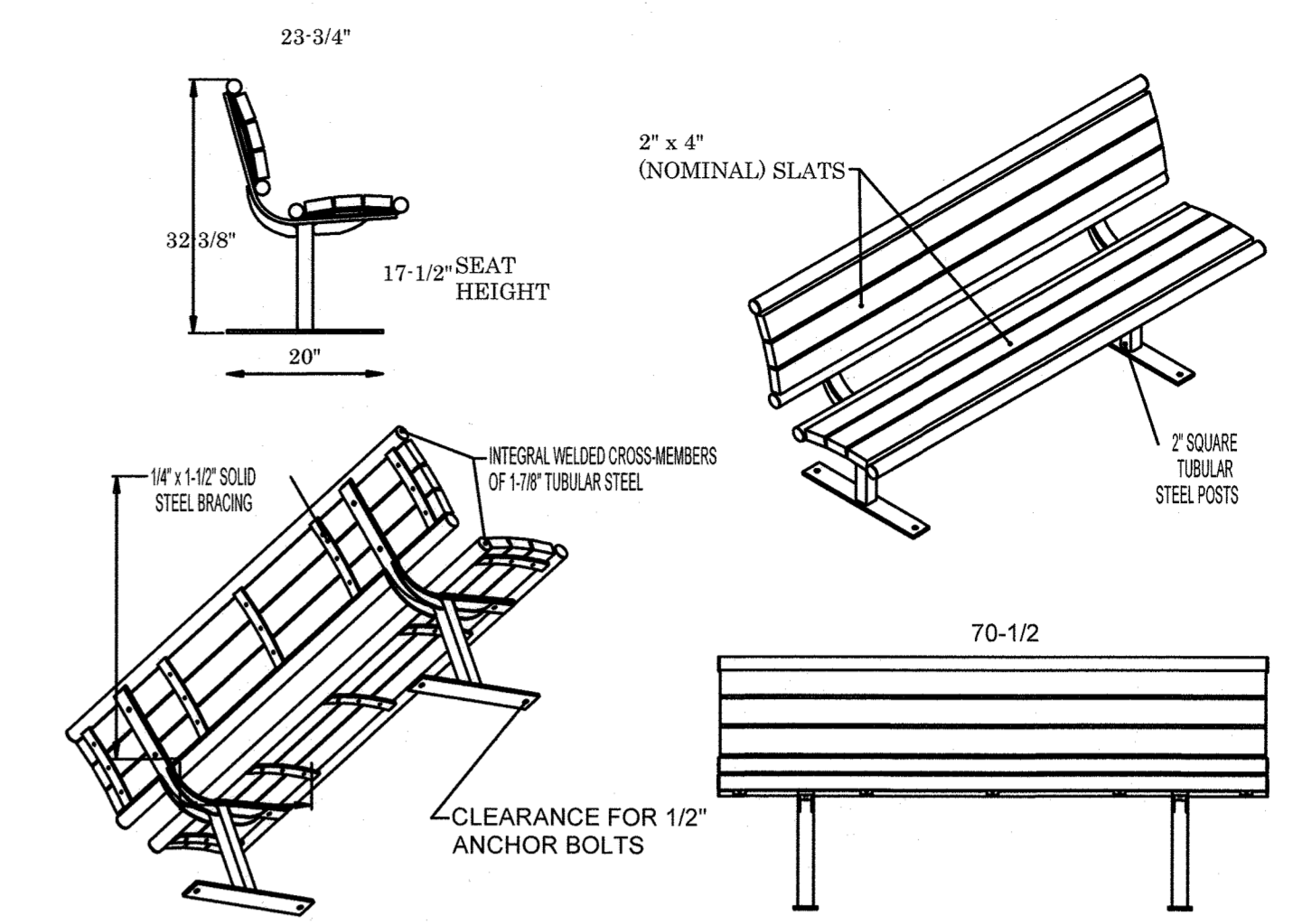
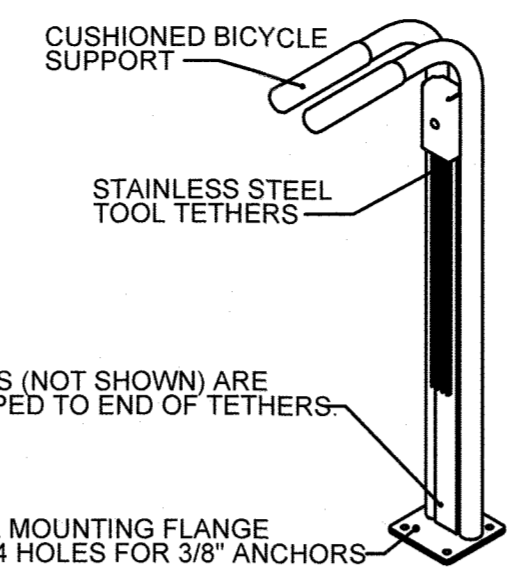
NOTE
INSTALL WITH STAINLESS STEEL EXPANSION ANCHOR BOLT, WASHER AND BLACK NYLON LOCK NUT. EXPANSION SHALL EXTEND BELOW PAVER 2 INCHES INTO CONCRETE. ALL CLEARANCE BETWEEN BOLT AND PAVER SHALL BE EPOXY FILLED.



2 BIKE REPAIR STATION
MADRAX RepairSTAN OR APPROVED EQUAL
NOT TO SCALE

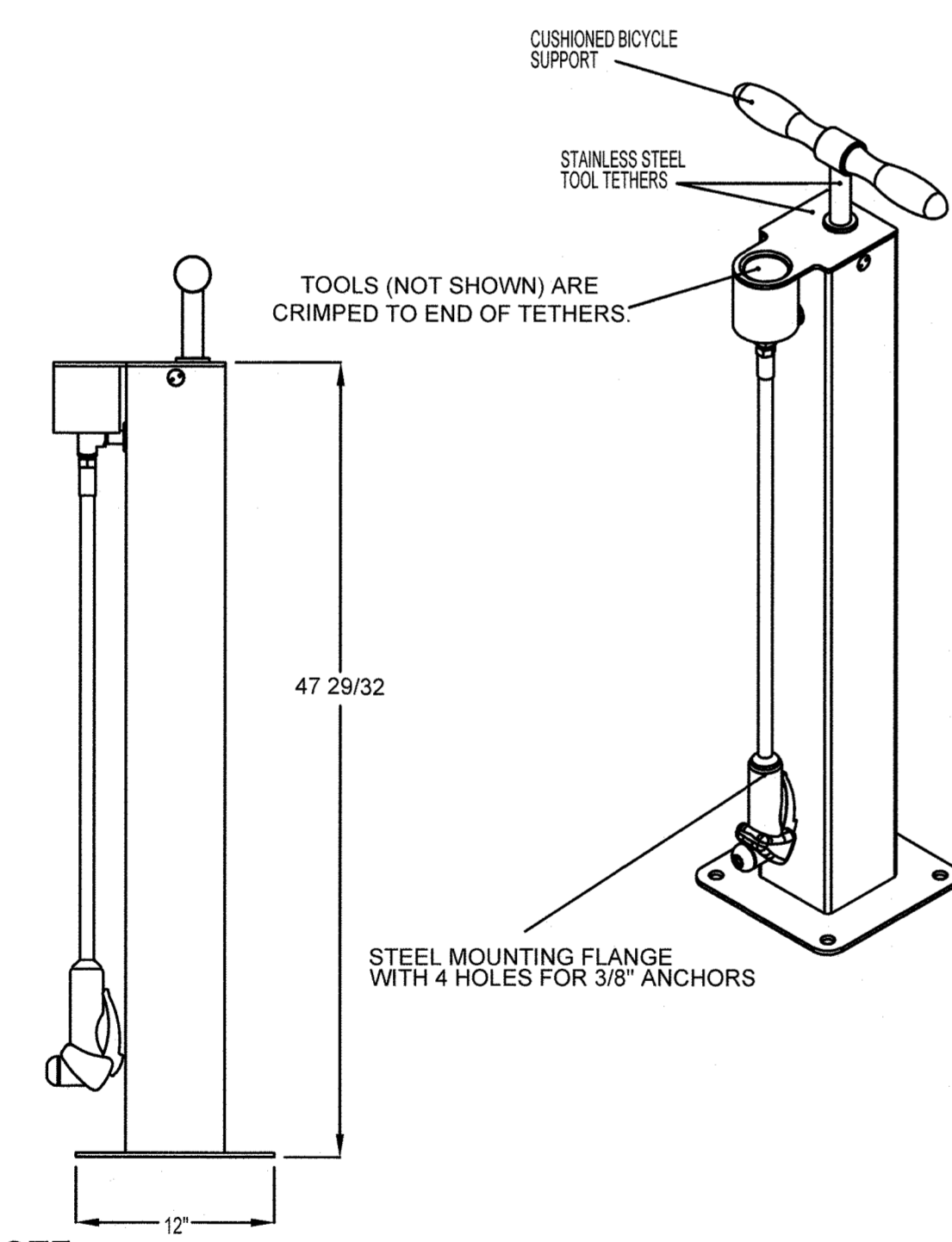
- INCLUDED TOOL LIST:**
1. PHILIPS SCREWDRIVER
 2. STRAIGHT SCREWDRIVER
 3. 2.5, 3.4, 5, 6, 8MM ALLEN WRENCHES
 4. HEADSET WRENCH
 5. PEDAL WRENCH
 - 6, 8, 9, 10, 11MM OPEN WRENCHES
 7. TIRE LEVER (1)
 8. ADJUSTABLE WRENCH

NOTE
INSTALL WITH STAINLESS STEEL EXPANSION ANCHOR BOLT, WASHER AND BLACK NYLON LOCK NUT. EXPANSION SHALL EXTEND BELOW PAVER 2 INCHES INTO CONCRETE. ALL CLEARANCE BETWEEN BOLT AND PAVER SHALL BE EPOXY FILLED.



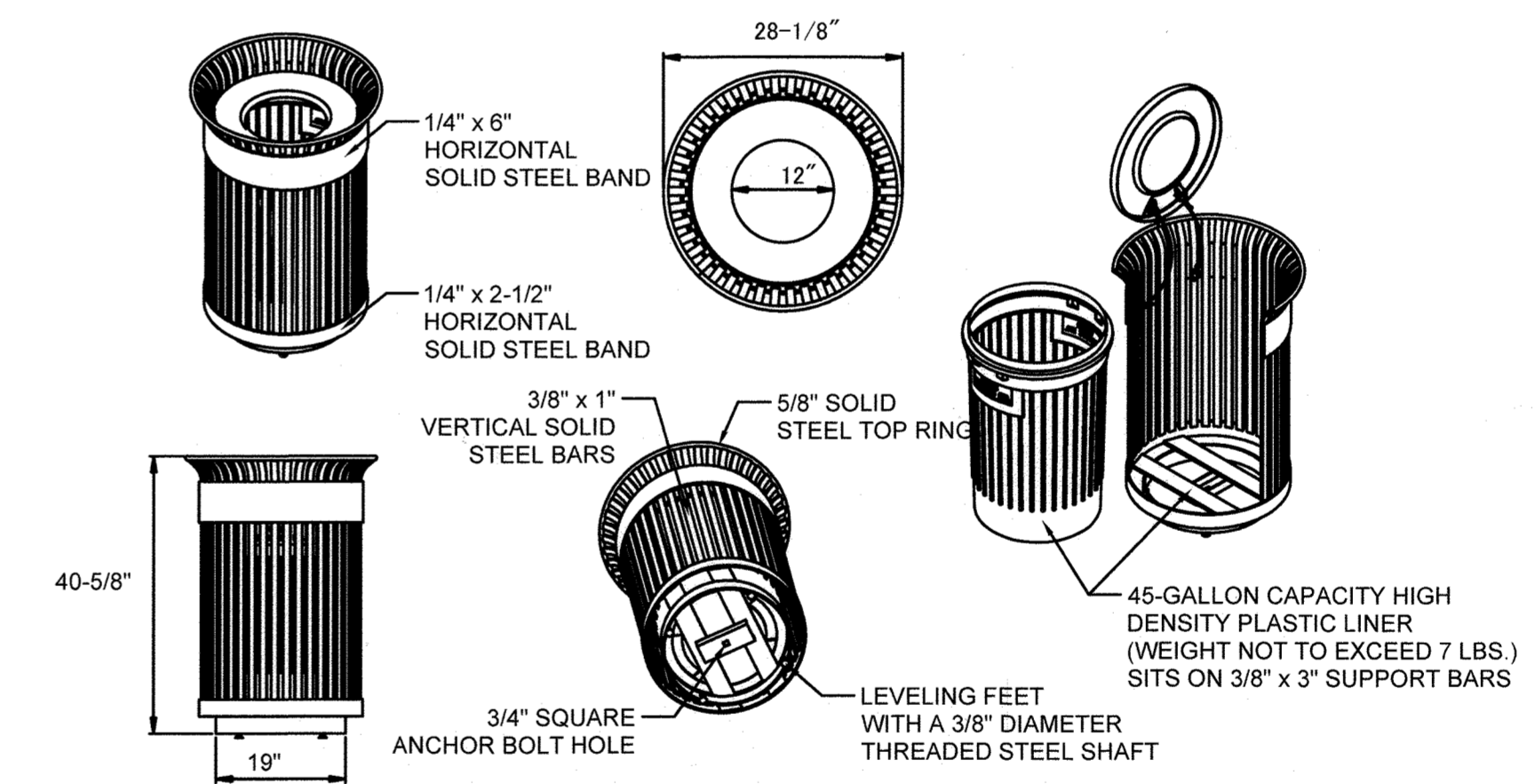
3 BENCH
VICTOR STANLEY CM-50 OR APPROVED EQUAL
NOT TO SCALE

- NOTES:**
1. WOOD SLATS SHALL BE IPE.
 2. INSTALLATION SHALL BE SURFACE MOUNTED WITH EXPANSION BOLTS.
 3. INSTALL WITH STAINLESS STEEL EXPANSION ANCHOR BOLT, WASHER AND BLACK NYLON LOCK NUT. EXPANSION SHALL EXTEND BELOW PAVER 2 INCHES INTO CONCRETE. ALL CLEARANCE BETWEEN BOLT AND PAVER SHALL BE EPOXY FILLED.



4 BIKE PUMP
MADRAX PHIL-UP OR APPROVED EQUAL
NOT TO SCALE

NOTE
INSTALL WITH STAINLESS STEEL EXPANSION ANCHOR BOLT, WASHER AND BLACK NYLON LOCK NUT. EXPANSION SHALL EXTEND BELOW PAVER 2 INCHES INTO CONCRETE. ALL CLEARANCE BETWEEN BOLT AND PAVER SHALL BE EPOXY FILLED.



- NOTES:**
1. ALL FABRICATED METAL COMPONENTS ARE STEEL SHOTBLASTED, ETCHED, PHOSPHATIZED, PREHEATED, AND ELECTROSTATICALLY POWDER-COATED WITH T.G.I.C. POLYESTER POWDERCOATINGS. PRODUCTS ARE FULLY CLEANED AND PRETREATED, PREHEATED AND COATED WHILE HOT TO FILL CREVICES AND BUILD FILM COATING. COATED PARTS ARE THEN FULLY CURED TO COATING MANUFACTURER'S SPECIFICATIONS. THE THICKNESS OF THE RESULTING FINISH AVERAGES 8-10 MILS (200-250 MICRONS).
 2. THIS PRODUCT MUST BE PERMANENTLY AFFIXED TO THE GROUND.
 3. ANCHOR BOLT(S) NOT PROVIDED BY VICTOR STANLEY, INC.

5 TRASH RECEPTICAL
VICTOR STANLEY S-45 OR APPROVED EQUAL
NOT TO SCALE

APPROVED: DEPARTMENT OF PLANNING & ZONING

Chief, Development/Engineering Division *[Signature]* 7/21/21 Date

Chief, Division of Land Development *[Signature]* 7/23/21 Date

Director *[Signature]* 7/23/21 Date

NO.	REVISION	DATE
2	ADA PARKING AND ADD SHEETS 82-109	MARCH 2021



DESIGN PROFESSIONAL:
PAUL WALSKY
HOWARD CO. DEPT. OF REC. & PARKS
7120 OAKLAND MILLS ROAD
COLUMBIA, MARYLAND 21046
TELEPHONE NUMBER: 410 313-1695

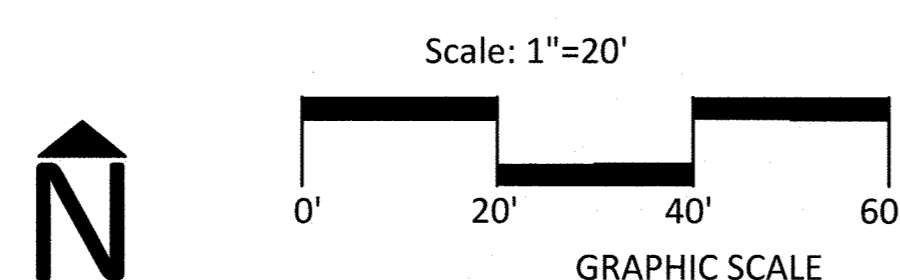


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Centennial Park
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OWNER: HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS JULY 7, 2021 SHEET 100 OF 109

RETAINING WALL 'A'
Westernmost Wall (West or Lake Face)

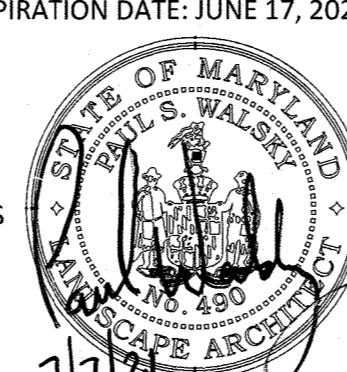
Station	Northing	Easting
Beg/PC 0+00	573524.934	1351974.644
Radius- 15.00' Arc - 20.31'		
Delta - 77°33'48" Right		
Chord - S 27°24'17" W 20.31'		
Curve Center 573521.975 1351959.939		
PRC 0+20.31	573508.252	1351965.995
Radius- 7.00' Arc - 4.15'		
Delta - 33°56'01" Left		
Chord - S 49°13'10" W 4.08'		
Curve Center 573501.848 1351968.821		
PCC 0+24.45	573505.583	1351962.902
Radius- 50.00' Arc - 25.44'		
Delta - 29°08'50" Left		
Chord - S 17°40'44" W 25.16'		
Curve Center 573478.901 1352005.187		
PCC 0+49.89	573481.609	1351955.260
Radius- 362.33' Arc - 72.67'		
Delta - 11°29'28" Left		
Chord - S 02°38'25" E 72.55'		
Curve Center 573461.981 1352317.058		
PRC 1+22.56	573409.139	1351958.602
Radius- 111.00' Arc - 29.09'		
Delta - 15°00'58" Right		
Chord - S 00°52'40" E 29.01'		
Curve Center 573392.951 1351848.789		
PT 1+51.65	573380.135	1351959.046
S 06°37'50" W 65.932'		
PC 2+17.58	573314.644	1351951.433
Radius- 61.00' Arc - 41.79'		
Delta - 39°15'15" Right		
Chord - S 26°15'27" W 40.98'		
Curve Center 573321.688 1351890.841		
PRC 2+59.37	573277.893	1351933.304
Radius- 189.00' Arc - 26.66'		
Delta - 08°04'55" Left		
Chord - S 41°50'37" W 26.64'		
Curve Center 573142.203 1352064.868		
PRC 2+86.03	573258.049	1351915.534
Radius- 35.00' Arc - 4.47'		
Delta - 07°19'29" Right		
Chord - S 41°27'54" W 4.47'		
Curve Center 573279.502 1351887.880		
PRC 2+90.50	573254.699	1351912.573
Radius- 30.00' Arc - 23.63'		
Delta - 45°07'38" Left		
Chord - S 22°33'49" W 23.02'		
Curve Center 573233.438 1351933.739		
PT 3+14.13	573233.438	1351903.739
S 00°00'00" E 42.120'		
PC 3+56.25	573191.318	1351903.739
Radius- 20.00' Arc - 31.32'		
Delta - 89°43'37" Right		
Chord - S 44°51'49" W 28.22'		
Curve Center 573191.318 1351883.739		
PT 3+87.57	573171.319	1351883.835
S 89°43'37" W 32.816'		
PC 4+20.39	573171.162	1351851.019
Radius- 20.00' Arc - 21.10'		
Delta - 60°27'11" Left		
Chord - S 59°30'02" W 20.14'		
Curve Center 573151.163 1351851.114		
PT 4+41.49	573160.942	1351833.668



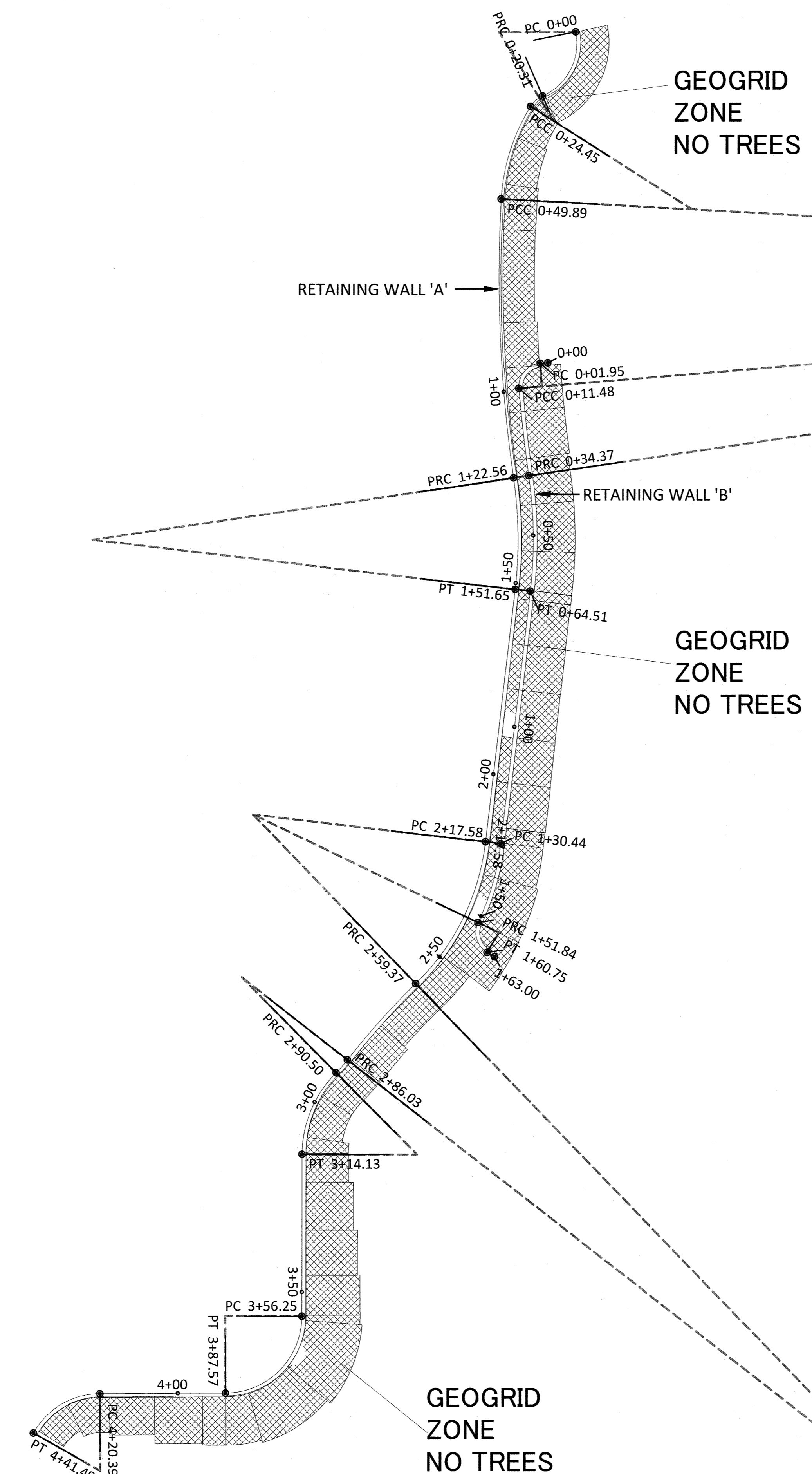
GEOGRID
ZONE
NO TREES

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DESIGN PROFESSIONAL:
PAUL WALSKY
HOWARD CO. DEPT. OF REC. & PARKS
7120 OAKLAND MILLS ROAD
COLUMBIA, MARYLAND 21046
TELEPHONE NUMBER: 410 313-1695



1/12



GEOGRID
ZONE
NO TREES

GEOGRID
ZONE
NO TREES

RETAINING WALL 'B'
Easternmost Wall (West or Lake Face)

Station	Northing	Easting
Begin 0+00	573439.070	1351967.480
S 86°15'01" W 1.95'		
PC 0+01.95	573438.942	1351965.533
Radius - 6.00' Arc - 9.53'		
Delta - 90°58'33" Left		
Chord - S 40°45'45" W 8.56'		
Curve Center 573432.955 1351965.926		
PCC 0+11.48	573432.461	1351959.946
Radius - 358.33' Arc - 22.89'		
Delta: 03°39'37" Left		
Chord - S 06°33'20" E 22.89'		
Curve Center 573461.981 1352317.058		
PRC 0+34.37	573409.723	1351962.559
Radius- 115.00' Arc - 30.14'		
Delta - 15°00'58" Right		
Chord - S 00°52'40" E 30.05'		
Curve Center 573392.951 1351848.789		
PT 0+64.51	573379.673	1351963.020
S 06°37'50" W 65.93'		
PC 1+30.44	573314.182	1351955.407
Radius- 65.00' Arc - 21.39'		
Delta - 18°51'32" Right		
Chord - S 16°03'36" W 21.30'		
Curve Center 573321.688 1351890.841		
PRC 1+51.84	573293.715	1351949.515
Radius- 6.00' Arc - 8.92'		
Delta - 85°08'30" Left		
Chord - S 17°04'53" E 8.12'		
Curve Center 573291.133 1351954.931		
PT 1+60.75	573285.955	1351951.899
S 59°39'08" E 2.25'		
End 1+63.00	573284.820	1351953.838

APPROVED: DEPARTMENT OF PLANNING & ZONING

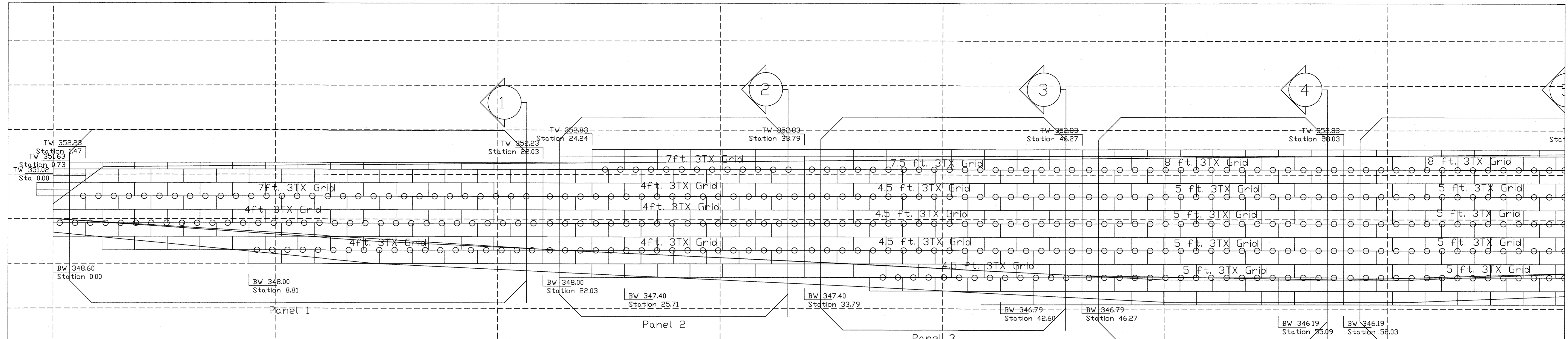
Chief, Development Engineering Division *[Signature]* 7/14/21
Date

Chief, Division of Land Development *[Signature]* 7/23/21
Date

Director *[Signature]* 7/23/21
Date

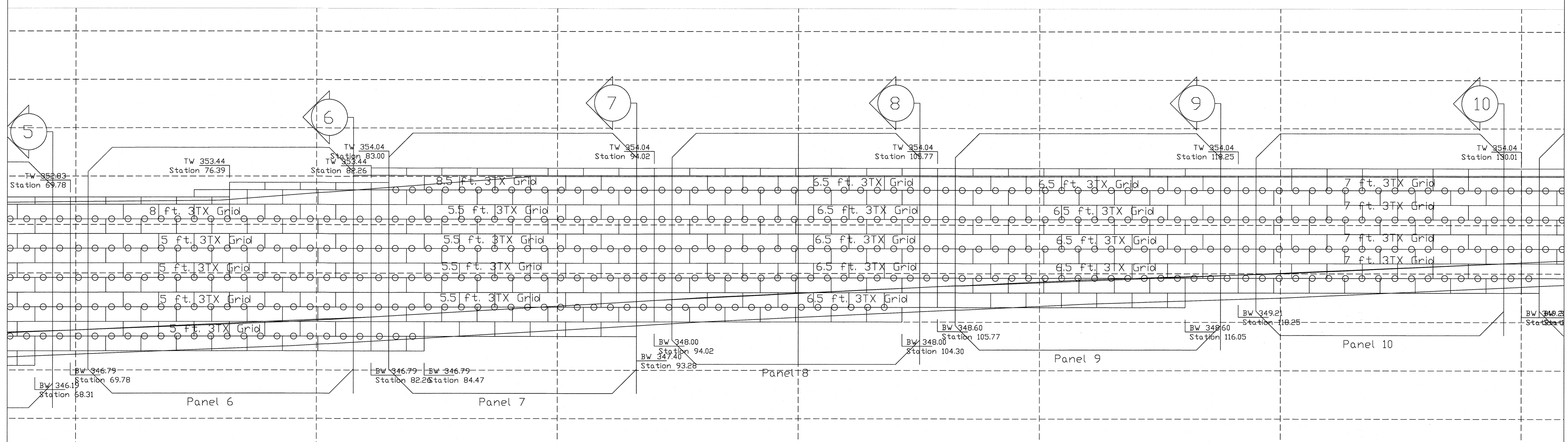
NO.	REVISION	DATE
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RETAINING WALLS GEOMETRY PLAN
Centennial Park
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OWNER: HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS JULY 8, 2021 SHEET 101 OF 109



Elevation View

Note: Panel Sections cover the total over all height of each panel. See individual panel section drawings for geogrid strength and lengths, wall surcharge and slope above information.



APPROVED DEPARTMENT OF PLANNING & ZONING

Chief, Development Engineering Division *[Signature]* 7/21/21
Date

Chief, Division of Land Development *[Signature]* 7/23/21
Date

Director *[Signature]* 7/23/21
Date

NO.	REVISION	DATE
2	ADA PARKING AND ADD SHEETS 82-109	MARCH 2021



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.

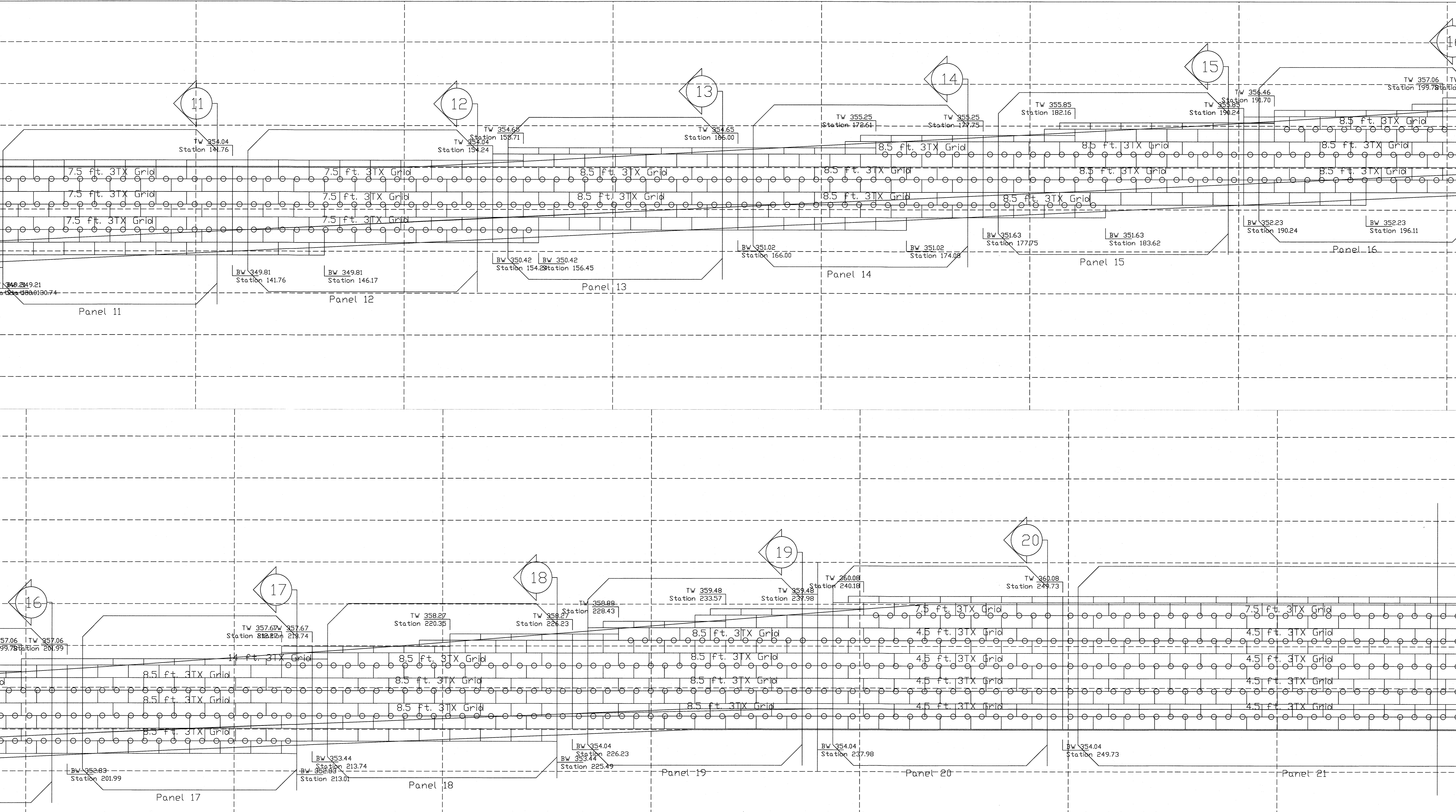
License No.: 55429
Expiration Date: 12/15/2021

RETAINING WALL 'A' STA. 1+30 TO 2+67 ELEVATION

Centennial Park

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 OWNER: HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS JULY 6, 2021 SHEET 104 OF 109



APPROVED: DEPARTMENT OF PLANNING & ZONING

Chief, Development Engineering Division Date 7/2/21

Chief, Division of Land Development Date 7/23/21

Director Date 7/23/21

NO.	REVISION	DATE
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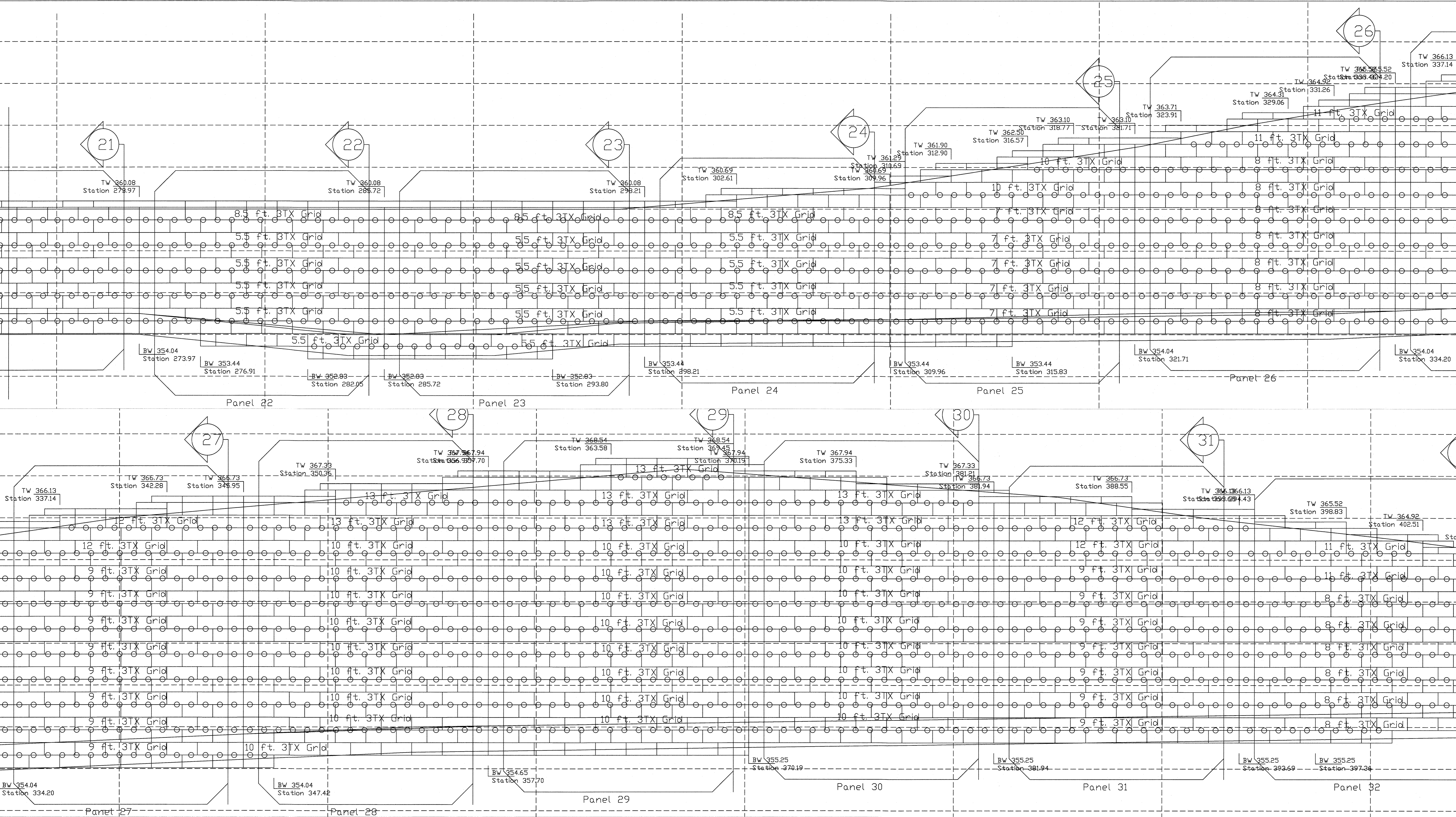
Professional Certification:
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

License No.: 55429
Expiration Date: 12/15/2021

RETAINING WALL 'A' STA. 1+30 TO 2+67
ELEVATION

Centennial Park
ADA IMPROVEMENTS - BOAT HOUSE AREA

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OWNER: HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS JULY 6, 2021 SHEET 105 OF 109



APPROVED: DEPARTMENT OF PLANNING & ZONING

Chief, Development Engineering Division *[Signature]* 7/1/21
Date

Chief, Division of Land Development *[Signature]* 7/23/21
Date

Director *[Signature]* 7/23/21
Date

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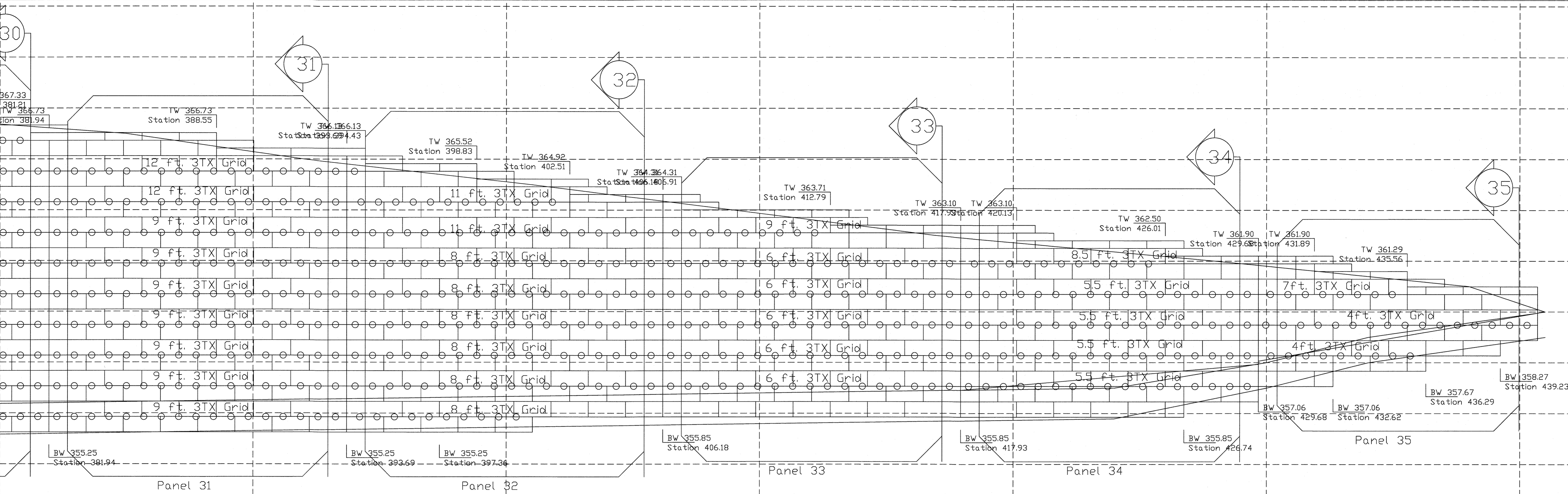


Professional Certification:
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

License No.: 55429
Expiration Date: 12/15/2021

RETAINING WALL 'A' STA. 2+67 TO 3+53
ELEVATION

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A) MAP 30 GRID 7 PARCEL 9 L.F.664/78 TAX ACCOUNT: 2-233082, 137.53 ACRES
B) MAP 30 GRID 2 PARCEL 10 L.F.885/76 TAX ACCOUNT: 2-218690, 104.36 ACRES
OWNER: HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS JULY 6, 2021 SHEET 106 OF 109



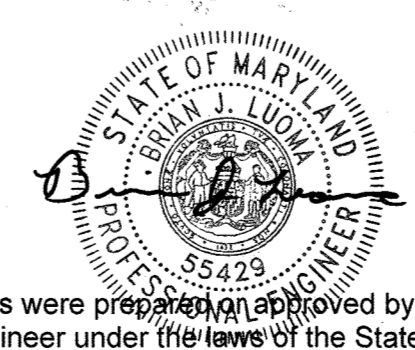
APPROVED: DEPARTMENT OF PLANNING & ZONING

Chief, Development Engineering Division *[Signature]* 7/13/21
Date

Chief, Division of Land Development *[Signature]* 7/23/21
Date

Director *[Signature]* 7/23/21
Date

NO.	REVISION	DATE
2	ADA PARKING AND ADD SHEETS 82-109	MARCH 2021

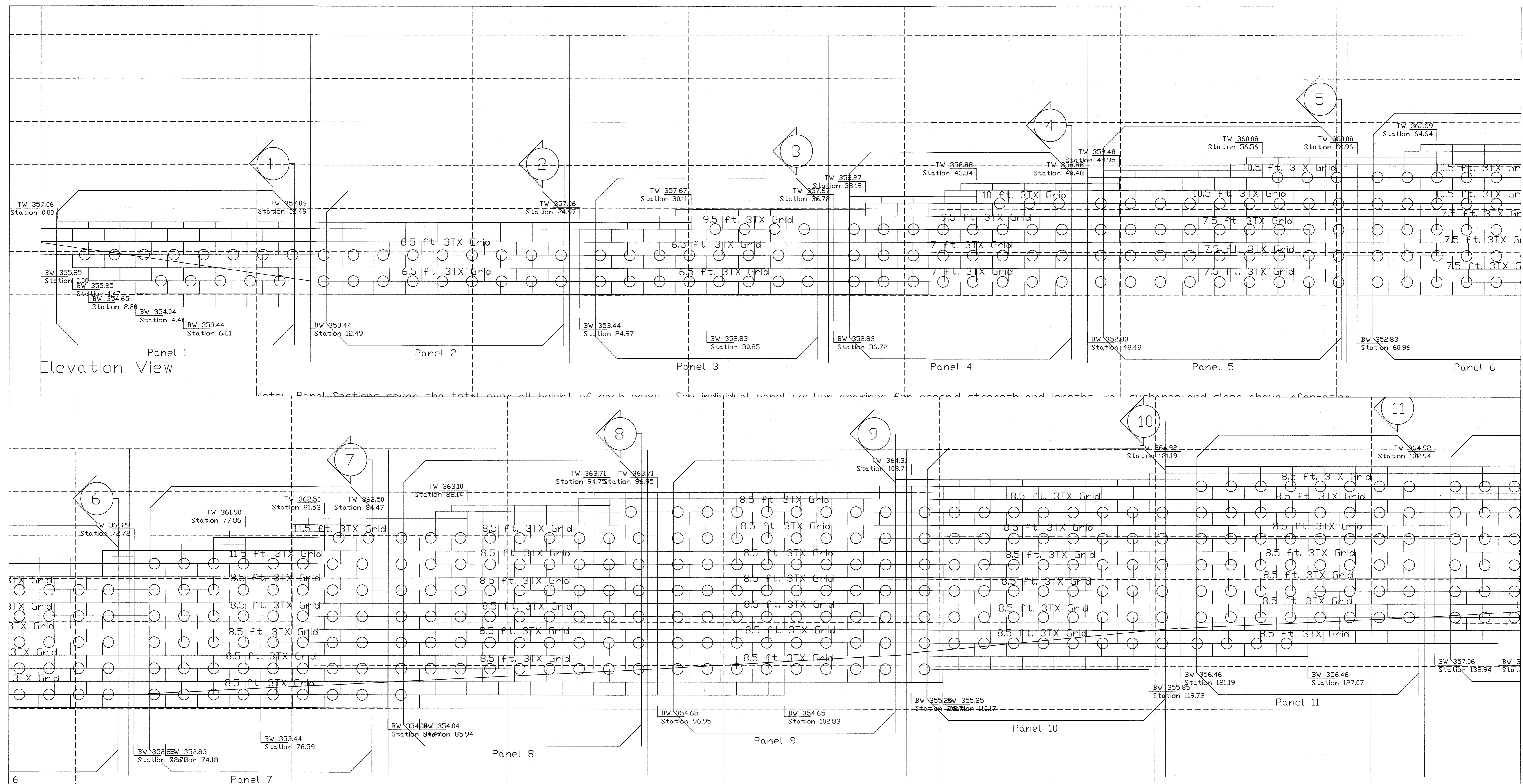


Professional Certification:
I hereby certify that these documents were prepared and approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

License No.: 55429
Expiration Date: 12/15/2021

RETAINING WALL 'A' STA. 3+53 TO 4+40
ELEVATION

Centennial Park
ADA IMPROVEMENTS - BOAT HOUSE AREA
10,000 CLARKSVILLE PIKE, ELLICOTT CITY, MARYLAND 21042 ZONING: R-20 ELEC. DIST: 1
A) MAP 30 GRID 7 PARCEL 9 L.F.464/78 TAX ACCOUNT: 2-223082, 137.53 ACRES
B) MAP 30 GRID 2 PARCEL 10 L.F.885/76 TAX ACCOUNT: 2-218690, 104.36 ACRES
OWNER: HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS JULY 6, 2021 SHEET 107 OF 109



Note: Panel Sections cover the total over all height of each panel. See individual panel section drawings for specific strength and lengths, wall surface and class above information.



APPROVED: DEPARTMENT OF PLANNING & ZONING

Chief, Development Engineering Division: *[Signature]* 7/11/21
Date

Chief, Division of Land Development: *[Signature]* 7/23/21
Date

Director: *[Signature]* 7/23/21
Date

NO.	REVISION	DATE
2	ADA PARKING AND ADD SHEETS 82-109	MARCH 2021



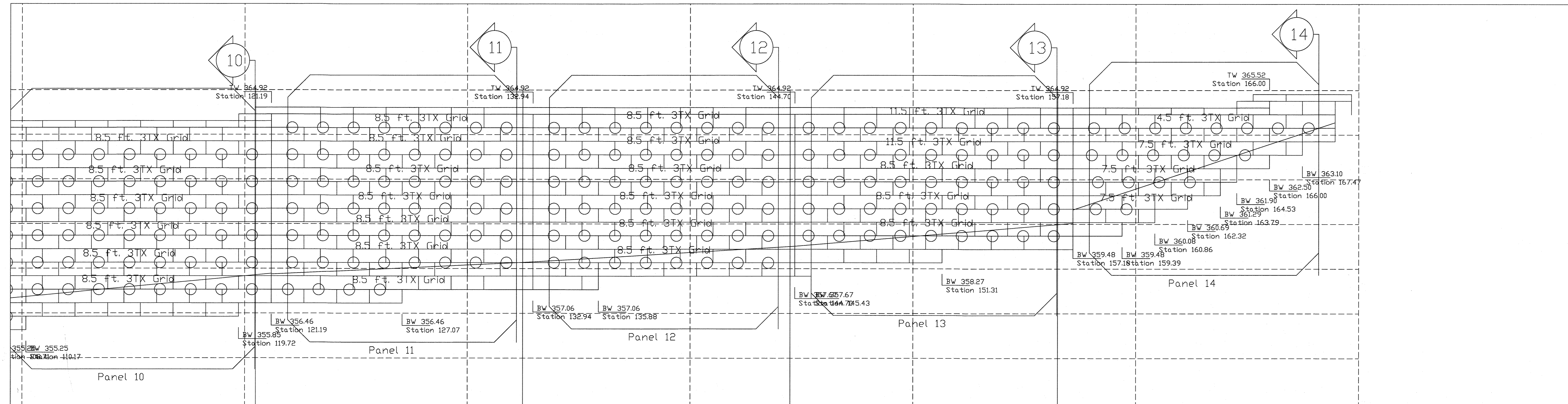
Professional Certification:
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

License No.: 55429
Expiration Date: 12/15/2021

RETAINING WALL 'B' STA. 0+00 TO 1+10
ELEVATION

Centennial Park
ADA IMPROVEMENTS - BOAT HOUSE AREA

10,000 CLARKSVILLE PIKE, ELLICOTT CITY, MARYLAND 21042 ZONING: R-20 ELEC. DIST: 1
A) MAP 30 GRID 7 PARCEL 9 L.F. 464/78 TAX ACCOUNT: 2-223082, 137.53 ACRES
B) MAP 30 GRID 2 PARCEL 10 L.F. 885/76 TAX ACCOUNT: 2-218690, 104.36 ACRES
OWNER: HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS JULY 6, 2021 SHEET 108 OF 109



BORING LOG

Report No.: **B-1** Date: **11/25/2020**

Client: **Howard County Government** Project No.: **120-191**

Project: **Centennial Park - Retaining Walls** Location: **See Boring Location Plan**

Boring No.: **B-1** (1 of 1) Elev.: **352.5** Type of Boring: **Hand Auger** Started: **9/17/2020** Completed: **9/17/2020** Driller: **B. Luoma & G. Cushman**

Elevation	Depth	DESCRIPTION OF MATERIALS (classification)	Sample Blows	Sample Depth (Feet)	Moisture Content	REMARKS
352.5	0.0	Grass with topsoil and root (organic) matter				Groundwater was encountered at 8 feet
352.25	0.25	Brown fine to medium SAND with some clay and little silt, wet to saturated (SM-SC, Sandy Clay Loam)				
349.5	3.0		14	3.0		
	3.5		19	3.5		
347	5.0		5	5.0	24.9	
	6.0		6	6.0		
344.5	8.0		4	8.0		
344	8.5	End of Boring	6	8.5		

*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the last two increments of penetration is termed the standard penetration resistance, N.

BORING LOG

Report No.: **B-2** Date: **11/25/2020**

Client: **Howard County Government** Project No.: **120-191**

Project: **Centennial Park - Retaining Walls** Location: **See Boring Location Plan**

Boring No.: **B-2** (1 of 1) Elev.: **360.5** Type of Boring: **Hand Auger** Started: **9/17/2020** Completed: **9/17/2020** Driller: **B. Luoma & G. Cushman**

Elevation	Depth	DESCRIPTION OF MATERIALS (classification)	Sample Blows	Sample Depth (Feet)	Moisture Content	REMARKS
360.5	0.0	Forest litter with topsoil and root (organic) matter				Groundwater was encountered at a depth of 14.25 feet
360.25	0.25	Brown silty fine to medium micaceous SAND (SM)				
356.5	4.0		12	4.0	9.2	
	4.5		13	4.5		
354.5	6.0		12	6.0		
	6.5		13	6.5		
351.5	9.0		12	9.0		
	9.5		20+	9.5		
348.5	14.0		20+	14.0		
348	14.5	End of Boring	20+	14.5		

*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the last two increments of penetration is termed the standard penetration resistance, N.

BORING LOG

Report No.: **B-3** Date: **11/25/2020**

Client: **Howard County Government** Project No.: **120-191**

Project: **Centennial Park - Retaining Walls** Location: **See Boring Location Plan**

Boring No.: **B-3** (1 of 1) Elev.: **367.4** Type of Boring: **Hand Auger** Started: **9/17/2020** Completed: **9/17/2020** Driller: **B. Luoma & G. Cushman**

Elevation	Depth	DESCRIPTION OF MATERIALS (classification)	Sample Blows	Sample Depth (Feet)	Moisture Content	REMARKS
367.4	0.0	Forest litter with topsoil and root (organic) matter				Groundwater was not encountered during drilling or at completion
367.15	0.25	Light brown fine to medium micaceous SAND with little silt, damp, medium dense (SM)				
365.4	2.0		14	2.0		Bees!!!
	2.5		15	2.5		
362.9	4.5		11	4.5		
	5.0		11	5.0		
358.9	10.5		10	10.5	5.4	
358.9	11.0		11	11.0		
356.9	13.5	End of Boring				

*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the last two increments of penetration is termed the standard penetration resistance, N.

BORING LOG

Report No.: **B-4** Date: **11/25/2020**

Client: **Howard County Government** Project No.: **120-191**

Project: **Centennial Park - Retaining Walls** Location: **See Boring Location Plan**

Boring No.: **B-4** (1 of 1) Elev.: **359.6** Type of Boring: **Hand Auger** Started: **9/17/2020** Completed: **9/17/2020** Driller: **B. Luoma & G. Cushman**

Elevation	Depth	DESCRIPTION OF MATERIALS (classification)	Sample Blows	Sample Depth (Feet)	Moisture Content	REMARKS
359.6	0.0	Forest litter with topsoil and root (organic) matter				Groundwater was not encountered during drilling or at completion
359.35	0.25	Light brown fine to medium micaceous SAND with little silt and little gravel, damp, medium dense to dense (SM)				
357.6	2.0		20+	2.0		7.9
	2.5		20+	2.5		
355.1	4.5		20+	4.5		
354.6	5.0		20+	5.0		
354	5.5	End of Boring	20+	5.5		

*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the last two increments of penetration is termed the standard penetration resistance, N.

BORING LOG

Report No.: **B-5** Date: **11/25/2020**

Client: **Howard County Government** Project No.: **120-191**

Project: **Centennial Park - Retaining Walls** Location: **See Boring Location Plan**

Boring No.: **B-5** (1 of 1) Elev.: **359.7** Type of Boring: **Hand Auger** Started: **9/17/2020** Completed: **9/17/2020** Driller: **B. Luoma & G. Cushman**

Elevation	Depth	DESCRIPTION OF MATERIALS (classification)	Sample Blows	Sample Depth (Feet)	Moisture Content	REMARKS
359.7	0.0	Forest litter with topsoil and root (organic) matter				Groundwater was not encountered during drilling or at completion
359.45	0.25	Brown fine to coarse SAND with little silt and little gravel, moist, medium dense to dense (SM)				
356.2	3.5		5	3.5	11.8	
	4.0		6	4.0		
354.7	5.0		20+	5.0		
354.2	5.5	End of Boring	20+	5.5		

*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the last two increments of penetration is termed the standard penetration resistance, N.



APPROVED: DEPARTMENT OF PLANNING & ZONING

Chief, Development Engineering Division: *[Signature]* Date: **7/23/21**

Chief, Division of Land Development: *[Signature]* Date: **7/23/21**

Director: *[Signature]* Date: **7/23/21**

NO.	REVISION	DATE
2	ADA PARKING AND ADD SHEETS 82-109	MARCH 2021



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License No.: 55429
Expiration Date: 12/15/2021

RETAINING WALL 'B' STA. 1+10 TO 1+68
ELEVATION AND BORING LOGS

Centennial Park
ADA IMPROVEMENTS - BOAT HOUSE AREA

10,000 CLARKSVILLE PIKE, ELLICOTT CITY, MARYLAND 21042 ZONING: R-20 ELEC. DIST.: 1
A) MAP 30 GRID 7 PARCEL 9 L.F. 454/78 TAX ACCOUNT: 2-223082, 137.53 ACRES
B) MAP 30 GRID 2 PARCEL 10 L.F. 885/76 TAX ACCOUNT: 2-218690, 104.36 ACRES
OWNER: HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS JULY 6, 2021 SHEET 109 OF 109