

# SEWELL'S ORCHARD PARK

## COMMUNITY

### PHASE II - LANDSCAPING AND CONSTRUCTION OF PATHWAY, SIGNS, FISHING PIER, BOARDWALK, OBSERVATION DECK AND ENTRANCE PLAZA

#### GENERAL NOTES:

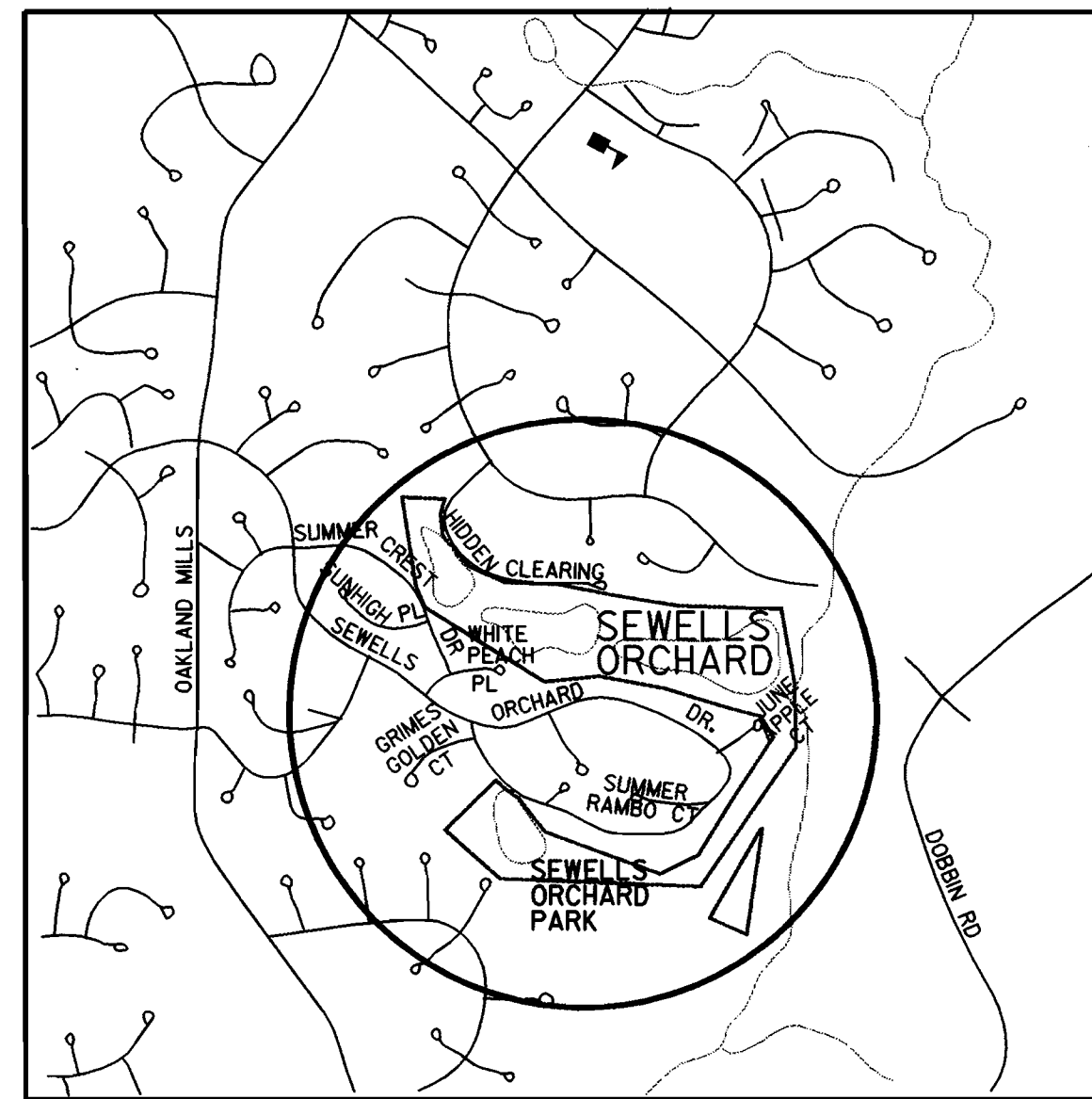
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY AND MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
- LOCATION: SEWELL'S ORCHARD PARK  
TAX MAP NO. 36, PARCEL NO. 470, 480 & 485
- SITE ANALYSIS:
  - TOTAL PROJECT AREA: 25 ACRES +/-
  - AREA OF PLAN SUBMISSION: ± 25 ACRES +/-
  - LIMITS OF DISTURBANCE AREA: AS SHOWN ON SITE PLANS (I) - (5)
  - THE SUBJECT PROPERTY IS ZONED R-SC PER HOWARD COUNTY COMPREHENSIVE ZONING PLAN, ADOPTED ON 10/18/93.
  - PROPOSED USES FOR SITE = COMMUNITY PARK
- THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD RUN SURVEY WITH ONE FOOT COUNTOUR INTERVALS PERFORMED BY JOHN E. HARMS, ASSOCIATES, INC. ON APRIL 27, 1994. THIS TOPOGRAPHY HAS BEEN UPDATED IN ACCORDANCE WITH THE AS-BUILT INFORMATION SUPPLIED TO P.E.L.A.
- EXISTING UTILITIES WERE LOCATED BY FIELD SURVEY, DESIGN BY THE COUNTY AS PER ITEM 6 ABOVE.
- THE COORDINATES SHOWN HEREON ARE BASED ON NAD 83, MARYLAND COORDINATE SYSTEM AS PROVIDED BY HOWARD COUNTY.

#### GEODETIC CONTROL

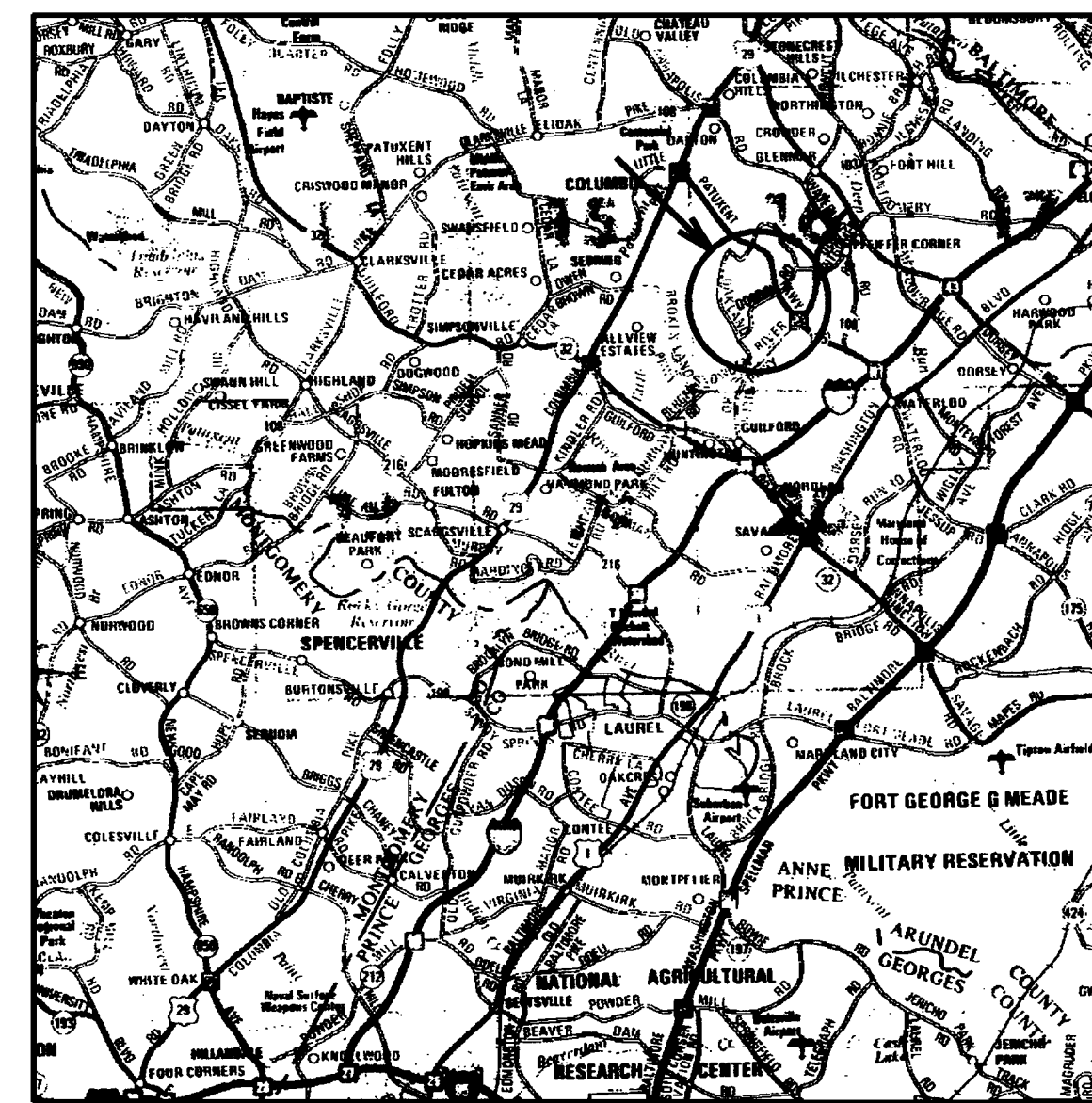
STATION	COORDINATES	ELEVATION
36E4	N 560,264.353 E 1,359,398.738	414.288
36E5	N 558,664.734 E 1,359,171.287	406.930

- NO TRAFFIC STUDY IS REQUIRED FOR THIS SITE.
- A JOINT PERMIT APPLICATION WAS APPROVED FOR THIS PROJECT, TO REPAIR SEWELL'S ORCHARD PONDS, CREATE WETLANDS AND CONSTRUCT PATHWAY BRIDGES, DECKS AND FISHING PIERS. DATED APRIL 16, 1996.
- ANY TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING AT ENTRANCE(S) FOR CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- THE STORMWATER MANAGEMENT FACILITY (PONDS I-III) IS OWNED AND MAINTAINED BY HOWARD COUNTY GOVERNMENT.
- THE FLOODPLAIN STUDY FOR THIS PROJECT WAS PREPARED BY P.E.L.A. DESIGN INC., DATED MARCH 16, 1996.
- THE WETLANDS DELINEATION STUDY FOR THIS PROJECT WAS PREPARED BY GENERAL ENGINEERING DIVISION OF PUBLIC WORKS AND HOWARD SOIL CONSERVATION DISTRICT, DATE DEC. 1, 1993.
- A LETTER OF AUTHORIZATION (LOA) WAS ISSUED PER NATIONWIDE PERMIT #3 AND #26 IN APRIL 1996 BY MDE NON-TIDAL WETLANDS AND WATERWAY DIVISION FOR JOINT PERMIT FOR NON-TIDAL WETLANDS #95-NT-0296. MDE/WMA ALSO ISSUED A GENERAL PERMIT FOR CONSTRUCTION ACTIVITY PER NPDES IN APRIL 1996.
- NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE REQUIRED WETLANDS, STREAMS) OR THEIR BUFFERS AND FOREST CONSERVATION EASEMENT AREAS, EXCEPT AS PERMITTED BY DPZ AND SCD IN ACCORDANCE WITH SECTION 16.116(a) OF THE SUBDIVISION REGULATION AS NECESSARY DISTURBANCE.
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16J24 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL.
- THIS SITE PLAN IS EXEMPT FROM FOREST CONSERVATION IN ACCORDANCE WITH SECTION 16J202.B.I.III OF THE HOWARD COUNTY SUBDIVISIONS REGULATIONS, BECAUSE THE LIMITS OF DISTURBANCE SHOWN ON THIS PLAN DOES NOT INCREASE AREA OF DISTURBANCE AS SHOWN ON PREVIOUSLY APPROVED PLANS F 80-105 AND F 85-71.

#### CAPITAL PROJECT NO.: N-3951



VICINITY MAP  
SCALE: 1" = 1000'



LOCATION MAP  
SCALE: 1" = 2.5 MILES

#### LIST OF ABBREVIATIONS

AC	ACRES
B&B	BALLED AND BURLAPPED
BL	BASELINE
BLDG.	BUILDING
CAL.	CALIPER
CB MH	CABLE MANHOLE
C&G	CURB AND GUTTER
C/L	CENTERLINE
CONC.	CONCRETE
C.I.-L.P.	CAST IRON LOW PRESSURE GAS LINE
Ø OR DIA.	DIAMETER
D.G.S.A.B.	DENSE GRADED STABILIZED AGGREGATE BASE
E.	EAST
E.C.	ELECTRICAL CONDUIT
E.J.	EXPANSION JOINT
ELEC.	ELECTRICAL
ELEV.	ELEVATION
EX.	EXISTING
F.H.	FIRE HYDRANT
F.L.	FLOW LINE
GV	GAS VALVE
H.C.	HANDICAPPED
HT.	HEIGHT
HORL.	HORIZONTALLY
L.P.	LINEAR PROFILE
M.H.	MANHOLE
MAX.	MAXIMUM
MIN.	MINIMUM
N.T.S.	NOT TO SCALE
P.G.L.	PROPOSED GRADE LINE
PSI	POUNDS PER SQUARE INCH
R	RADIUS
R.R.	RAILROAD
R/W	RIGHT-OF-WAY
S.D.	STORM DRAIN
S.MH	SANITARY MANHOLE
S.S.	SANITARY SEWER
S	SANITARY
SQ.FT.	SQUARE FEET
SPEC.	SPECIFICATIONS
STA.	STATION
STL	STEEL
T.C.	TELEPHONE CONDUIT
TELE MH	TELEPHONE MANHOLE
TYP.	TYPICAL
VERT.	VERTICAL
W.	WATER MAIN
W/W	WITH
W.M.	WATER METER
V.	VALVE

#### LEGEND:

<b>EXISTING</b>		
---	342	EX. CONTOUR
+	342.32	EX. SPOT ELEVATION
---		EDGE OF WATER
---		100 YR. FLOODPLAIN
---		EX. 1' CONTOURS
---		EX. 5' CONTOURS
---		PARK BOUNDARY
---		R/W LINE
---		LOT LINE
---		25' WETLANDS BUFFER
		EX. RIP-RAP
		EX. CONC. SPILLWAY W/ BOULDERS AND CREEKFLATS
		EX. GABION
		EX. WETLANDS (CREATED IN PHASE 1)
		EX. WOODED AREA
		EX. TREE
		UTILITY EASEMENT
		ABANDON PIPE & RISER
		EX. STORM DRAIN W/ MANHOLE
		EX. POND DRAIN W/ MANHOLE
		POND DRAIN VALVE IN MANHOLE
		WETLANDS (DELIANIATED BY THE COUNTY)
		EX. SLOPE 15%- 24.9%
		EX. SLOPE ≥ 25%
<b>PROPOSED</b>		
		BITUMINOUS CONCRETE PATH
		GRASS PATH
		PROP. CONTOUR
		CONSTRUCTION FENCING
		LIMIT OF DISTURBANCE
		BASELINE OF CONSTRUCTION
		TREE PROTECTION FENCE
		STABILIZED CONSTRUCTION ENTRANCE
		SILT FENCE
		EARTH DIKE

#### LIST OF DRAWINGS

- COVER SHEET
- PLAN INDEX
- EXISTING CONDITIONS PLAN 1
- EXISTING CONDITIONS PLAN 2
- EXISTING CONDITIONS PLAN 3
- EXISTING CONDITIONS PLAN 4
- EXISTING CONDITIONS PLAN 5
- SITE PLAN 1
- SITE PLAN 2
- SITE PLAN 3
- SITE PLAN 4
- SITE PLAN 5
- SEDIMENT AND EROSION PLAN 1
- SEDIMENT AND EROSION PLAN 2
- SEDIMENT AND EROSION PLAN 3
- SEDIMENT AND EROSION PLAN 4
- SEDIMENT AND EROSION PLAN 5
- SEDIMENT AND EROSION CONTROL NOTES
- GEOMETRIC LAYOUT PLAN
- LANDSCAPE PLAN 1
- LANDSCAPE PLAN 2
- LANDSCAPE PLAN 3
- LANDSCAPE PLAN 4
- LANDSCAPE PLAN 5
- PLANT SCHEDULES & PLANTING DETAILS
- ENTRANCE PLAZA DETAILS
- POND II BOARD WALK DETAILS
- OBSERVATION DECK DETAILS
- FISHING PIER DETAILS 1
- FISHING PIER DETAILS 2
- SITE CONSTRUCTION DETAILS (1)
- SITE CONSTRUCTION DETAILS (2)
- BORING LOG I
- BORING LOG II
- BORING LOG III

BY THE OWNER/ DEVELOPER  
 I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.  
 Signature: [Signature] DATE: 9/25/01

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. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.  
 Signature: [Signature] DATE: 9-20-01

APPROVED: [Signature] DATE: 9/25/01  
 ADDRESS CHART  

AREA	STREET ADDRESS
I	6240 HIDDEN CLEARING COLUMBIA, MD 21045
II	6264 HIDDEN CLEARING COLUMBIA, MD 21045
III	6455 SEWELLS ORCHARD DRIVE COLUMBIA, MD 21045

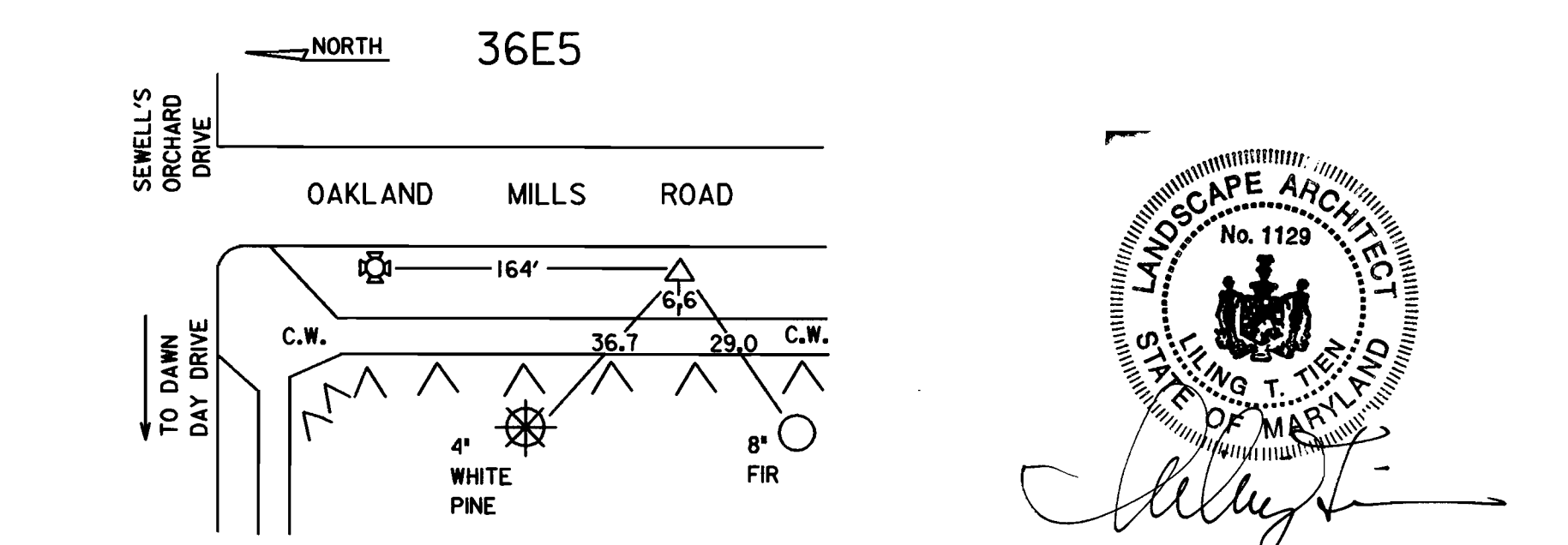
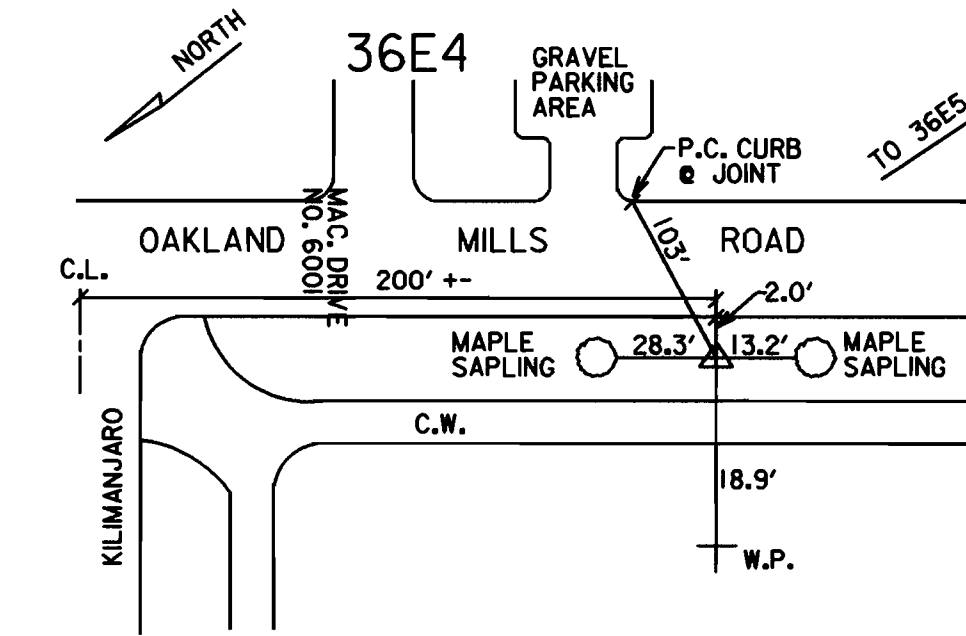
APPROVED: [Signature] DATE: 9-18-01  
 DIRECTOR, DEPARTMENT OF RECREATION & PARKS

PERMIT INFORMATION CHART  

SUB. NAME	LOT/PARCEL	ZONE
SEWELL'S ORCHARD	470, 480A, 485	R-SC

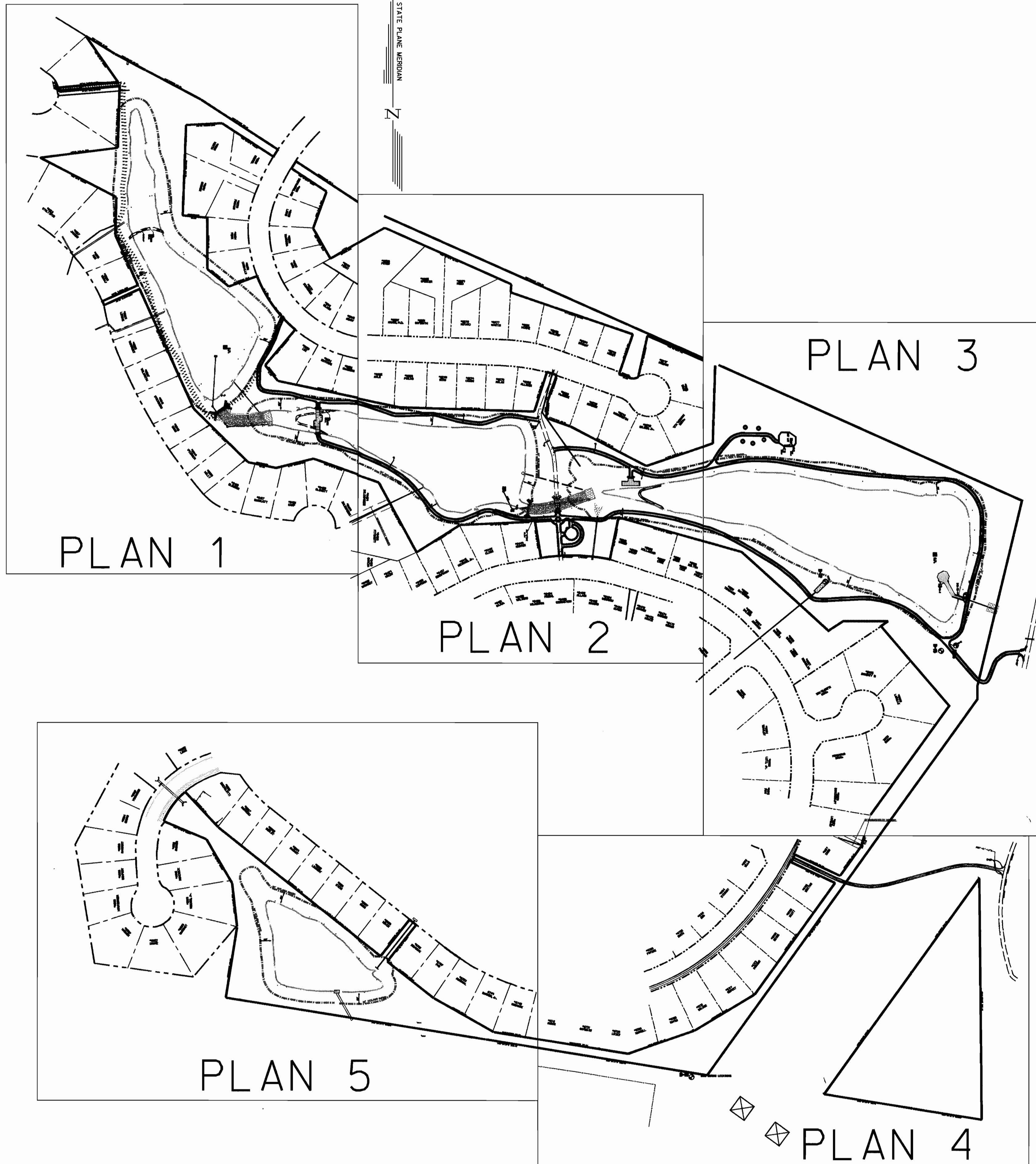
P.E.L.A. DESIGN, INC.  
 PLANNERS, ENGINEERS, & LANDSCAPE ARCHITECTS  
 212 WASHINGTON AVENUE, SUITE 100  
 TOWSON, MD 21204  
 TEL: 410-296-5545  
 FAX: 410-296-5547  
 LILING T. TIEN, RLA

#### SURVEY CONTROL STATIONS



#### COVER SHEET

SEWELL'S ORCHARD COMMUNITY PARK  
 SEWELL'S ORCHARD DRIVE, COLUMBIA, MD 21045  
 ELECTION DISTRICT: 6 TAX MAP NO. 36 PARCEL NO. 470, 480, & 485  
 PHASE II  
 Capital Project No.: N-3951 Contract Agreement No.: CA-93-52  
 Purchase Order No.: 19484 P.E.L.A. Project No.: 9316

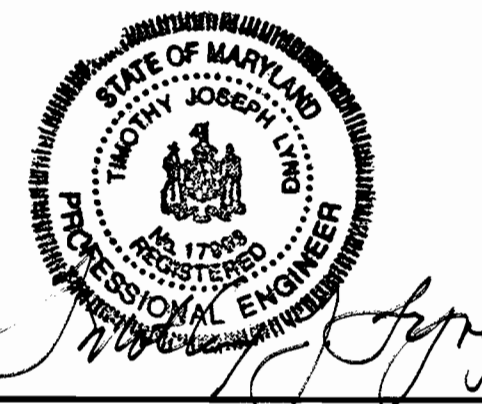


APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

*[Signature]* 10/16/01  
 CHIEF, PLANNING & ZONING DIVISION  
 DATE

*[Signature]* 10/23/01  
 CHIEF, DIVISION OF LAND DEVELOPMENT  
 DATE

*[Signature]* 10/23/01  
 DIRECTOR  
 DATE



DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

*[Signature]* 9/26/01  
 DIRECTOR OF PUBLIC WORKS  
 DATE

*[Signature]* 9/26/01  
 CHIEF - BUREAU OF ENGINEERING, acting  
 DATE

DEPARTMENT OF RECREATION & PARKS  
 HOWARD COUNTY, MARYLAND

APPROVED: *[Signature]* 9-18-01  
 DIRECTOR, DEPARTMENT OF RECREATION & PARKS  
 DATE

**P.E.L.A. DESIGN, INC.**  
 PLANNERS, ENGINEERS, & LANDSCAPE ARCHITECTS  
 212 WASHINGTON AVENUE, SUITE 100  
 TOWSON, MD 21204  
 TEL: 410-296-5545  
 FAX: 410-296-5547  
 LILING T. TIEN, RLA

DES: T.J.L, LTT					
DRN: SJC					
CHK: T.J.L, LTT					
DATE: 11-30-00	BY	NO.	REVISION	DATE	

**PLAN INDEX**  
 SCALE: 1"=140'

**SEWELL'S ORCHARD COMMUNITY PARK**  
 SEWELL'S ORCHARD DRIVE, COLUMBIA, MD 21045  
 ELECTION DISTRICT: 6 TAX MAP NO. 36 PARCEL NO. 470, 480 & 485

**PHASE II**

Capital Project No.: N-3951 Contract Agreement No.: CA-93-52  
 Purchase Order No.: 19484 PELA Project No.: 9316

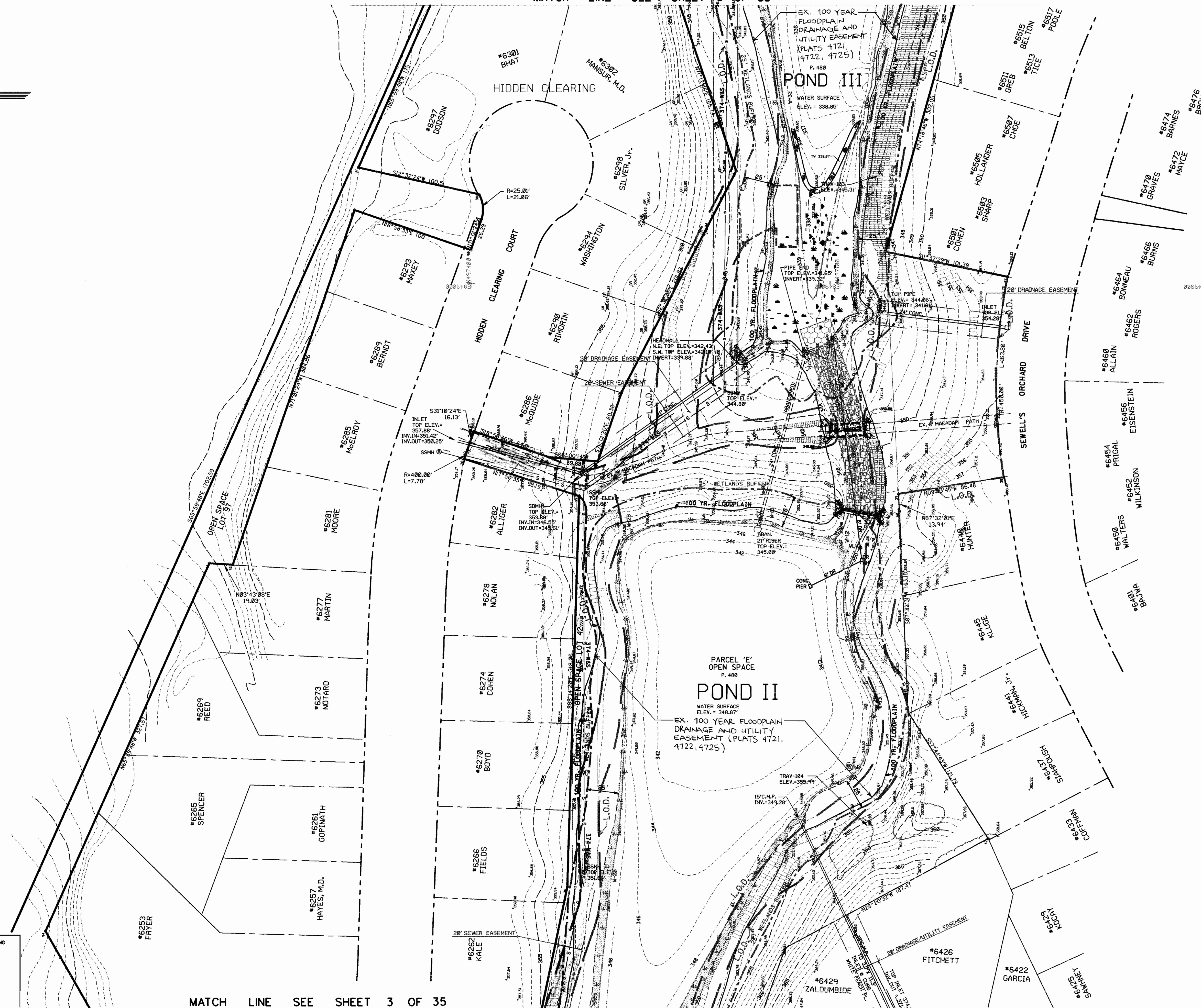
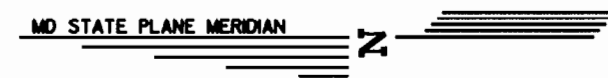
SCALE AS SHOWN

SHEET 2 OF 35









**NOTES:**  
 I. PONDS I-IV ARE PUBLIC SWM WET RETENTION FACILITIES.



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION  
 CHIEF, DIVISION OF LAND DEVELOPMENT  
 DIRECTOR

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 DIRECTOR OF PUBLIC WORKS  
 CHIEF - BUREAU OF ENGINEERING, DESIGN

DEPARTMENT OF RECREATION & PARKS  
 HOWARD COUNTY, MARYLAND  
 APPROVED: DIRECTOR, DEPARTMENT OF RECREATION & PARKS

**P.E.L.A. DESIGN, INC.**  
 PLANNERS, ENGINEERS, & LANDSCAPE ARCHITECTS  
 212 WASHINGTON AVENUE, SUITE 100  
 TOWSON, MD 21204  
 TEL: 410-296-5545  
 FAX: 410-296-5547  
 LILING T. TIEN, RLA

DESI	T, J, L, TTT	BY	NO.	REVISION	DATE
DRN	SJC				
CHK	T, J, L, TTT				
DATE:	5-03-01				

**EXISTING CONDITIONS PLAN (2)**  
 SCALE: 1"=40'

**SEWELL'S ORCHARD COMMUNITY PARK**  
 SEWELL'S ORCHARD DRIVE, COLUMBIA, MD 21045  
 ELECTION DISTRICT: 6 TAX MAP NO. 36 PARCEL NO. 470, 480 & 485  
 PHASE II  
 Capital Project No.: N-3951 Contract Agreement No.: CA-93-52  
 Purchase Order No.: 19484 PELA Project No.: 9316

ADDRESS CHART	
AREA	STREET ADDRESS
I	6240 HIDDEN CLEARING COLUMBIA, MD 21045
II	6264 HIDDEN CLEARING COLUMBIA, MD 21045
III	6455 SEWELL ORCHARD DRIVE COLUMBIA, MD 21045

PERMIT INFORMATION CHART					
SUBDIVISION NAME	LOT/ PARCEL	ZONE			
SEWELL'S ORCHARD	PARCEL 470, 480A, 485	R-SC			
PLAT NO.	BLOCK NO.	SEC./AREA	TAX MAP	ELEC. DIST.	CENSUS
		2/1	36	6TH	6066.04
WATER CODE	B03	SEWER CODE	4250000		

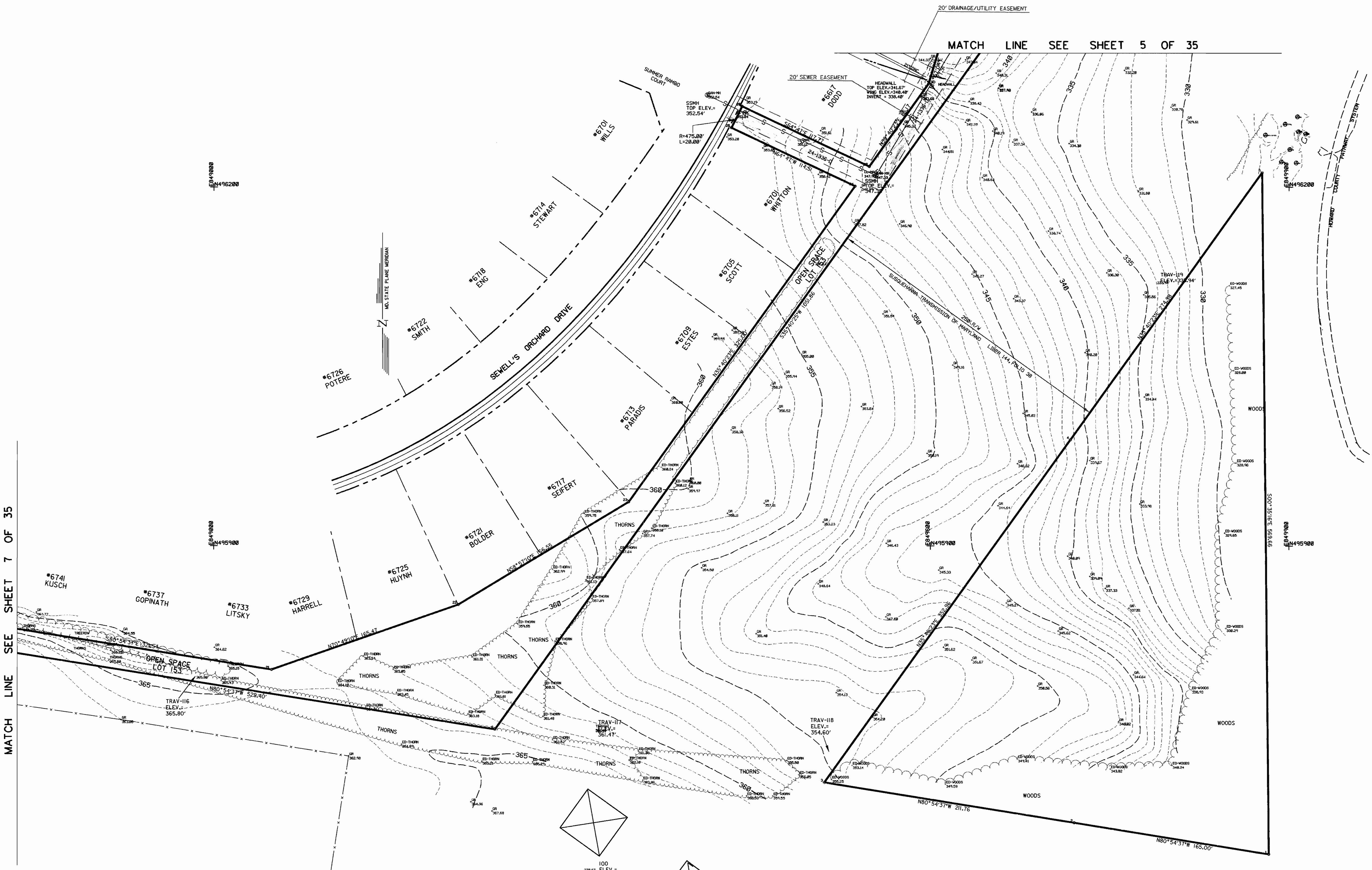






MATCH LINE SEE SHEET 5 OF 35

MATCH LINE SEE SHEET 7 OF 35



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION  
 CHIEF, DIVISION OF LAND DEVELOPMENT  
 DIRECTOR

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 DIRECTOR OF PUBLIC WORKS  
 CHIEF - BUREAU OF ENGINEERING, acting

DEPARTMENT OF RECREATION & PARKS  
 HOWARD COUNTY, MARYLAND  
 APPROVED:  
 DIRECTOR, DEPARTMENT OF RECREATION & PARKS

**P.E.L.A. DESIGN, INC.**  
 PLANNERS, ENGINEERS, & LANDSCAPE ARCHITECTS  
 212 WASHINGTON AVENUE, SUITE 100  
 TOWSON, MD 21204  
 TEL: 410-296-5545  
 FAX: 410-296-5547  
 LILING T. TIEN, RLA

DES: T.J.L, LTT					
DRN: SJC					
CHK: T.J.L, LTT					
DATE: 5-03-01	BY	NO.	REVISION	DATE	

**EXISTING CONDITIONS**  
 PLAN (4) SCALE: 1"=40'

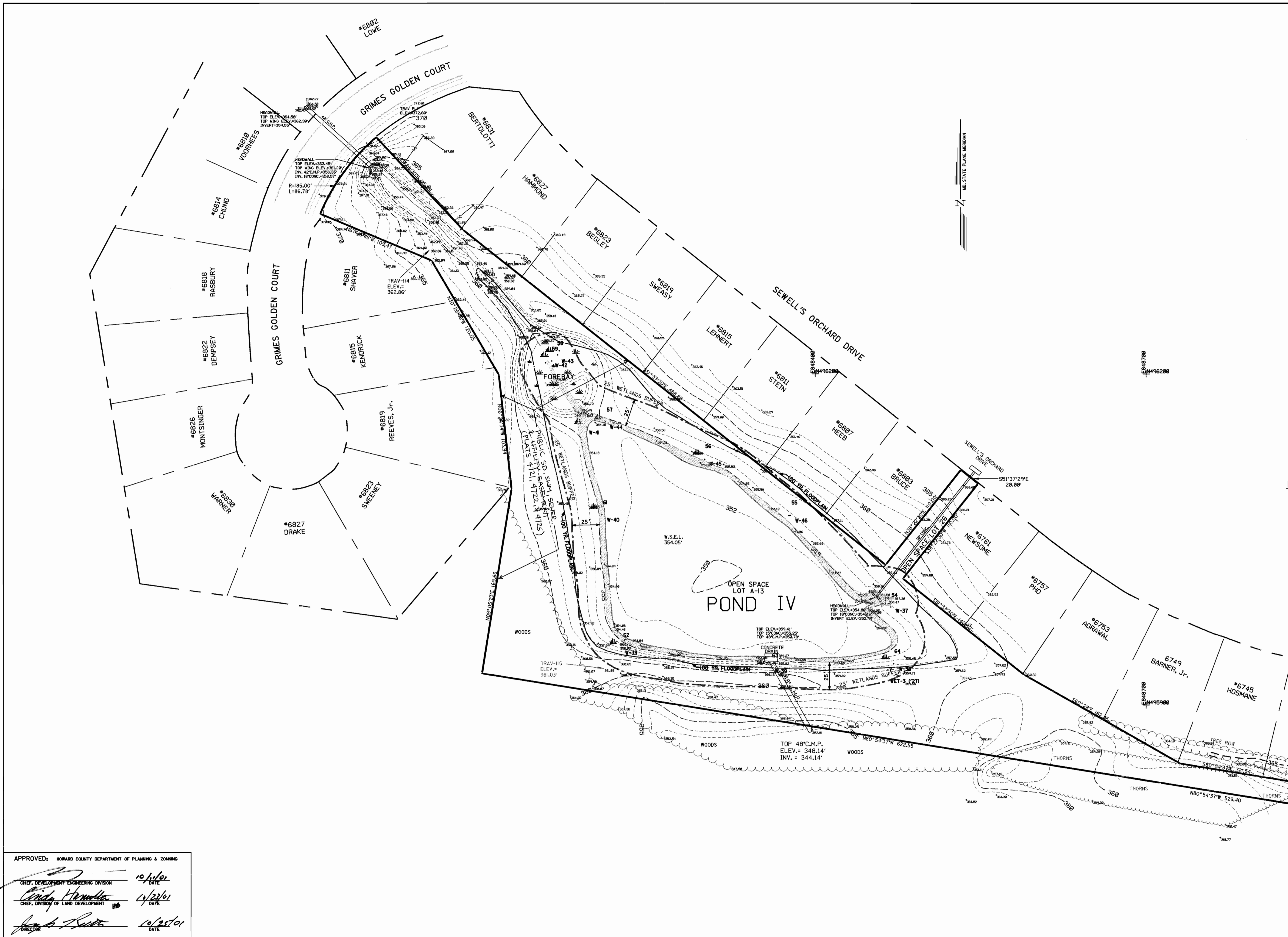
**SEWELL'S ORCHARD COMMUNITY PARK**  
 SEWELL'S ORCHARD DRIVE, COLUMBIA, MD 21045  
 ELECTION DISTRICT: 6 TAX MAP NO. 36 PARCEL NO. 470, 480 & 485  
 PHASE II  
 Capital Project No.: N-3951 Contract Agreement No.: CA-93-52  
 Purchase Order No.: 19484 PELA Project No.: 93J6

SCALE AS SHOWN  
 SHEET 6 OF 35

ADDRESS CHART	
AREA	STREET ADDRESS
I	6240 HIDDEN CLEARING COLUMBIA, MD 21045
II	6254 HIDDEN CLEARING COLUMBIA, MD 21045
III	6465 SEWELL ORCHARD DRIVE COLUMBIA, MD 21045

PERMIT INFORMATION CHART					
SUBDIVISION NAME	LOT/ PARCEL	ZONE			
SEWELL'S ORCHARD	PARCEL 470, 480A, 485	R-SC			
PLAT NO.	BLOCK NO.	SEC./AREA	TAX MAP	ELEC. DIST.	CENSUS
		36	6TH		60604
WATER CODE	BO3	SEWER CODE	4250000		



**NOTES:**  
 1. PONDS I-IV ARE PUBLIC SWM WET RETENTION FACILITIES.

MATCH LINE SEE SHEET 6 OF 35



ADDRESS CHART	
AREA	STREET ADDRESS
I	6240 HIDDEN CLEARING COLUMBIA, MD 21045
II	6254 HIDDEN CLEARING COLUMBIA, MD 21045
III	6455 SEWELL ORCHARD DRIVE COLUMBIA, MD 21045

PERMIT INFORMATION CHART				
SUBDIVISION NAME	LOT / PARCEL	ZONE		
SEWELL'S ORCHARD	PARCEL 470, 480A, 485	R-SC		
PLAT NO.	BLOCK NO.	SEC./AREA	TAX MAP	ELEC. DIST. CENSUS
	5/1	36	6TH	6066-04
WATER CODE	BO3	SEWER CODE	4250000	

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

*[Signature]* 10/16/01  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*[Signature]* 11/23/01  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

*[Signature]* 10/25/01  
 DIRECTOR DATE

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

*[Signature]* 9/26/01  
 DIRECTOR OF PUBLIC WORKS DATE

*[Signature]* 9/26/01  
 CHIEF - BUREAU OF ENGINEERING, acting DATE

DEPARTMENT OF RECREATION & PARKS  
 HOWARD COUNTY, MARYLAND

APPROVED: *[Signature]* 9-19-01  
 DIRECTOR, DEPARTMENT OF RECREATION & PARKS DATE

**P.E.L.A. DESIGN, INC.**  
 PLANNERS, ENGINEERS, & LANDSCAPE ARCHITECTS  
 212 WASHINGTON AVENUE, SUITE 100  
 TOWSON, MD 21204  
 TEL: 410-296-5545  
 FAX: 410-296-5547  
 LILING T. TIEN, RLA

DES: T.J.L. LTT				
DRN: SJC				
CHK: T.J.L. LTT				
DATE: 5-03-01	BY	NO.	REVISION	DATE

**EXISTING CONDITIONS PLAN (5) - POND IV**  
 SCALE: 1"=40'

**SEWELL'S ORCHARD COMMUNITY PARK**  
 SEWELL'S ORCHARD DRIVE, COLUMBIA, MD 21045  
 ELECTION DISTRICT: 6 TAX MAP NO. 36 PARCEL NO. 470, 480 & 485  
 PHASE II

Capital Project No.: N-3951 Contract Agreement No.: CA-93-52  
 Purchase Order No.: 19484 PELA Project No.: 9316

SCALE AS SHOWN  
 SHEET 7 OF 35



SCALE: 1" = 40'  
 MD. STATE PLANE MERIDIAN

INSTALL 6' WIDE BIT. CONC. PATH, SEE DETAIL SHT. 31 OF 35

INSTALL 6' WIDE BIT. CONC. PATH, SEE DETAIL SHT. 31 OF 35

INSTALL 6' WIDE BIT. CONC. PATH, SEE DETAIL SHT. 31 OF 35

INSTALL NEW PARK SIGN, SEE DETAIL SHT. 32 OF 35

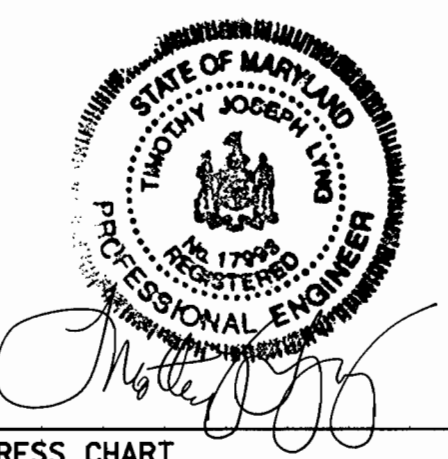
INSTALL WOODEN BOARDWALK, SEE DETAIL SHT. 27 OF 35

PARCEL 'E' OPEN SPACE  
 POND II  
 WATER SURFACE ELEV. = 349.24'

PARCEL 'E' OPEN SPACE  
 POND I  
 WATER SURFACE ELEV. = 357.65'

- PATHWAY NOTES:**
1. ALL INTERSECTIONS BETWEEN BITUMINOUS CONC. PATHS SHALL HAVE MINIMUM RADII OF 5'.
  2. ALL PATHWAYS ARE PUBLIC AND SHALL BE MAINTAINED BY HOWARD COUNTY GOVERNMENT.
  3. WHERE POSSIBLE, PATHWAY SLOPE SHALL BE NO GREATER THAN 5%.
  4. NATURAL VEGETATIVE BUFFER SHALL BE MAINTAINED BETWEEN EDGE OF THE POND AND THE NEW PATHWAY.

- NOTES:**
1. PONDS I-IV ARE PUBLIC SWM WET RETENTION FACILITIES.



ADDRESS CHART	
AREA	STREET ADDRESS
I	6240 HIDDEN CLEARING COLUMBIA, MD 21045
II	6264 HIDDEN CLEARING COLUMBIA, MD 21045
III	6455 SEWELL ORCHARD DRIVE COLUMBIA, MD 21045

PERMIT INFORMATION CHART			
SUBDIVISION NAME	LOT / PARCEL	ZONE	
SEWELL'S ORCHARD	470, 480A, 485	R-SC	
PLAT NO. BLOCK NO.	SEC./AREA	TAX MAP	ELEC. DIST. CENSUS
1/1	36	6TH	6066.04
WATER CODE	803	SEWER CODE	425000

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

*[Signature]* 11/10/01  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*[Signature]* 11/23/01  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

*[Signature]* 12/25/01  
 DIRECTOR DATE

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

*[Signature]* 9/20/01  
 DIRECTOR OF PUBLIC WORKS DATE

*[Signature]* 9/20/01  
 CHIEF - BUREAU OF ENGINEERING, a.c.m.s. DATE

DEPARTMENT OF RECREATION & PARKS  
 HOWARD COUNTY, MARYLAND

APPROVED: *[Signature]* 7-18-01  
 DIRECTOR, DEPARTMENT OF RECREATION & PARKS DATE

**P.E.L.A. DESIGN, INC.**  
 PLANNERS, ENGINEERS, & LANDSCAPE ARCHITECTS  
 212 WASHINGTON AVENUE, SUITE 100  
 TOWSON, MD 21204  
 TEL: 410-296-5545  
 FAX: 410-296-5547  
 LILING T. TIEN, RLA

DES: T.J.L. LTT			
DRN: SJC			
CHK: T.J.L. LTT			
DATE: 5-03-01			
BY	NO.	REVISION	DATE

**SITE PLAN (I)**  
 SCALE: 1"=40'

**SEWELL'S ORCHARD COMMUNITY PARK**  
 SEWELL'S ORCHARD DRIVE, COLUMBIA, MD 21045  
 ELECTION DISTRICT: 6 TAX MAP NO. 36 PARCEL NO. 470, 480 & 485

**PHASE II**

Capital Project No. N-3951 Contract Agreement No. CA-93-52  
 Purchase Order No. 19484 PELA Project No. 93.16

SCALE AS SHOWN  
 SHEET 8 OF 35







MD. STATE PLANE MERIDIAN

INSTALL FISHING  
PIER SEE SHEET  
29 & 30 OF 35

INSTALL 6' WIDE BIT.  
CONC. PATHWAY, SEE  
SHEET 31 OF 35

INSTALL 6' WIDE BIT.  
CONC. PATHWAY, SEE  
SHEET 31 OF 35

INSTALL 6' WIDE BIT.  
CONC. PATHWAY, SEE  
SHEET 31 OF 35

OPEN SPACE  
LOT 97  
**POND III**  
WATER SURFACE ELEV. = 339.84'  
EX. 100-YEAR FLOODPLAIN  
DRAINAGE AND UTILITY  
EASEMENT (PLATS 4721,  
4722, & 4725)

INSTALL 6' WIDE BIT.  
CONC. PATHWAY, SEE  
SHEET 31 OF 35

INSTALL 6' WIDE BIT.  
CONC. PATHWAY, SEE  
SHEET 31 OF 35

- PATHWAY NOTES:**
1. ALL INTERSECTIONS BETWEEN BITUMINOUS CONC. PATHS SHALL HAVE MINIMUM RADIUS OF 5'.
  2. ALL PATHWAYS ARE PUBLIC AND SHALL BE MAINTAINED BY HOWARD COUNTY GOVERNMENT.
  3. WHERE POSSIBLE, PATHWAY SLOPE SHALL BE NO GREATER THAN 5%.
  4. NATURAL VEGETATIVE BUFFER SHALL BE MAINTAINED BETWEEN EDGE OF THE POND AND THE NEW PATHWAY.

PROP. PICNIC AREA  
WITH TOT LOT. FOR  
PICNIC TABLE DETAILS  
SEE SHEET 31 OF 35.  
FOR TOT LOT DETAIL,  
SEE SHEET 26 OF 35

- NOTES:**
1. PONDS I-IV ARE PUBLIC SWM WET RETENTION FACILITIES.

INSTALL 6' WIDE BIT.  
CONC. PATHWAY, SEE  
SHEET 31 OF 35

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION  
*[Signature]* 9/26/01  
DATE

CHIEF, DIVISION OF LAND DEVELOPMENT  
*[Signature]* 10/23/01  
DATE

DIRECTOR  
*[Signature]* 10/23/01  
DATE

MATCH LINE SEE SHEET 9 OF 35

MATCH LINE SEE SHEET 11 OF 35

STATE OF MARYLAND  
TIMOTHY JOSEPH LUDWIG  
REGISTERED PROFESSIONAL ENGINEER  
No. 1793  
EXPIRES 12/31/02

*[Signature]*

ADDRESS CHART	
AREA	STREET ADDRESS
I	6240 HIDDEN CLEARING COLUMBIA, MD 21045
II	6264 HIDDEN CLEARING COLUMBIA, MD 21045
III	6455 SEWELL ORCHARD DRIVE COLUMBIA, MD 21045

PERMIT INFORMATION CHART				
SUBDIVISION NAME	LOT/ PARCEL	ZONE		
SEWELL'S ORCHARD	PARCEL 470, 480A, 485	R-SC		
PLAT NO.	BLOCK NO.	SEC./AREA	TAX MAP	ELEC. DIST. / CENSUS
		36	36	6TH / 6066.04
WATER CODE		SEWER CODE		
B03		425000		

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS  
*[Signature]* 9/26/01  
DATE

CHIEF - BUREAU OF ENGINEERING, *actms*  
*[Signature]* 9/20/01  
DATE

DEPARTMENT OF RECREATION & PARKS  
HOWARD COUNTY, MARYLAND

APPROVED:  
*[Signature]* 9-18-01  
DATE

DIRECTOR, DEPARTMENT OF RECREATION & PARKS

**P.E.L.A. DESIGN, INC.**  
PLANNERS, ENGINEERS, & LANDSCAPE ARCHITECTS  
212 WASHINGTON AVENUE, SUITE 100  
TOWSON, MD 21204  
TEL: 410-296-5545  
FAX: 410-296-5547  
LILING T. TIEN, RLA

DESIGN	T.J.L.	L.T.T.	DATE	BY	NO.	REVISION	DATE
DRN	SJC						
CHK	T.J.L.	L.T.T.					
DATE	5-03-01						

**SITE PLAN (3)**

SCALE: 1"=40'

**SEWELL'S ORCHARD COMMUNITY PARK**  
SEWELL'S ORCHARD DRIVE, COLUMBIA, MD 21045  
ELECTION DISTRICT: 6 TAX MAP NO. 36 PARCEL NO. 470, 480 & 485

**PHASE II**

Capital Project No.: N-3951 Contract Agreement No.: CA-93-52  
Purchase Order No.: 19484 PELA Project No.: 93.16

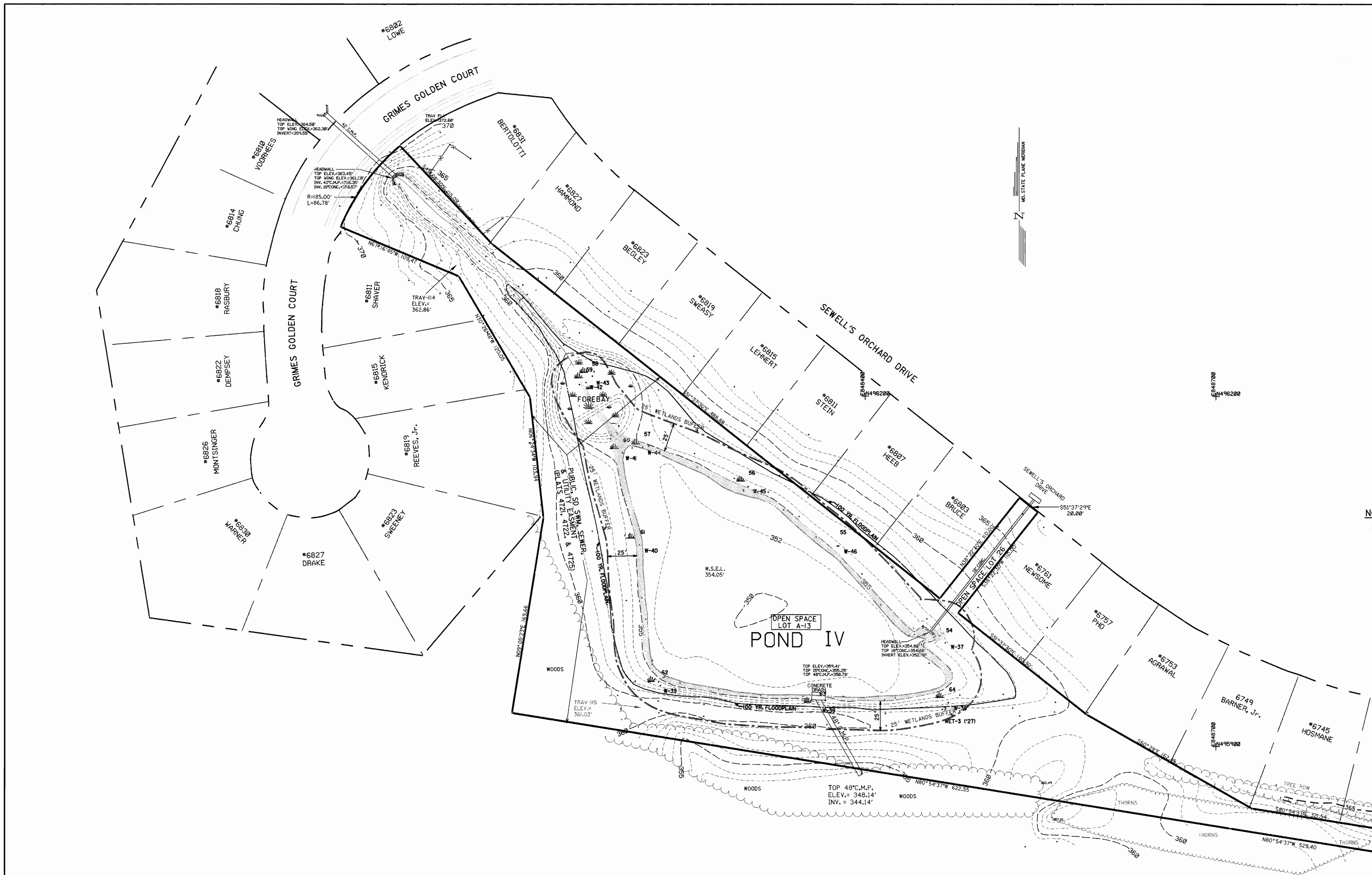
SCALE AS SHOWN

SHEET 10 OF 35









**NOTES:**  
 1. PONDS I-IV ARE PUBLIC SWM WET RETENTION FACILITIES.

**NOTES:**  
 1. RETAIN EXISTING VEGETATIVE BUFFER AROUND POND IV.  
 2. NO GRASS PATH OR BITUMINOUS CONC. PATH WILL BE BUILT IN THIS AREA.  
 3. DO NOT DISTURB WETLAND FOREBAY CREATED IN PHASE I.

**NOTE TO CONTRACTOR:**  
 NO BUILT IMPROVEMENTS ARE SCHEDULED FOR THE AREA COVERED BY THIS SHEET. SEE SHEETS 24 AND 25 OF 35 FOR PLANTING PLAN AND PLANTING SCHEDULE AND DETAILS, RESPECTIVELY.

MATCH LINE SEE SHEET II OF 35



ADDRESS CHART	
AREA	STREET ADDRESS
I	6240 HIDDEN CLEARING COLUMBIA, MD 21045
II	6284 HIDDEN CLEARING COLUMBIA, MD 21045
III	6455 SEWELL ORCHARD DRIVE COLUMBIA, MD 21045

PERMIT INFORMATION CHART			
SUBDIVISION NAME	LOT/ PARCEL	ZONE	
SEWELL'S ORCHARD	PARCEL 470, 480A, 485	R-SC	
PLAT NO.	BLOCK NO.	SEC./AREA	TAX MAP
		4/1	36
ELEC. DIST.	CENSUS		
6TH	6066.04		
WATER CODE	SEWER CODE		
803	428000		

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION  
 CHIEF, DIVISION OF LAND DEVELOPMENT  
 DIRECTOR

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 DIRECTOR OF PUBLIC WORKS  
 CHIEF - BUREAU OF ENGINEERING, acting

DEPARTMENT OF RECREATION & PARKS  
 HOWARD COUNTY, MARYLAND  
 APPROVED:  
 DIRECTOR, DEPARTMENT OF RECREATION & PARKS

**P.E.L.A. DESIGN, INC.**  
 PLANNERS, ENGINEERS, & LANDSCAPE ARCHITECTS  
 212 WASHINGTON AVENUE, SUITE 100  
 TOWSON, MD 21204  
 TEL: 410-296-5545  
 FAX: 410-296-5547  
 LILING T. TIEN, RLA

DES:	T.J.L. LTT	DATE:	5-03-01
DRN:	SJC	BY:	NO.
CHK:	T.J.L. LTT	REVISION:	DATE:

**SITE PLAN (5)**  
 SCALE: 1"=40'

**SEWELL'S ORCHARD COMMUNITY PARK**  
 SEWELL'S ORCHARD DRIVE, COLUMBIA, MD 21045  
 ELECTION DISTRICT: 6 TAX MAP NO. 36 PARCEL NO. 470, 480 & 485  
**PHASE II**  
 Capital Project No.: N-3951 Contract Agreement No.: CA-93-52  
 Purchase Order No.: 19484 PELA Project No.: 93J6

SCALE AS SHOWN  
 SHEET 12 OF 35



SCALE: 1" = 40'

MD. STATE PLANE MERIDIAN

Reviewed for Howard SCD and meets Technical Requirements  
 Date: 10/10/01  
 Signature: *John M. ...*  
 Title: Chief, Division of Land Development

**ENGINEER'S CERTIFICATE**  
 I certify that this plan for sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard County Soil Conservation District.  
 Signature of Engineer: *John M. ...* Date: 9-25-01  
**DEVELOPER'S CERTIFICATE**  
 I/we certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance of a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard County Soil Conservation District.  
 Signature of Developer: *William ...* Date: 9/25/01

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
 Chief, Development Engineering Division: *John M. ...* Date: 10/10/01  
 Chief, Division of Land Development: *John M. ...* Date: 10/21/01  
 Director: *John M. ...* Date: 10/21/01

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 Director of Public Works: *John M. ...* Date: 9/26/01  
 Chief - Bureau of Engineering, Acting: *John M. ...* Date: 9/20/01

DEPARTMENT OF RECREATION & PARKS  
 HOWARD COUNTY, MARYLAND  
 Approved: *John M. ...* Date: 9-18-01  
 Director, Department of Recreation & Parks

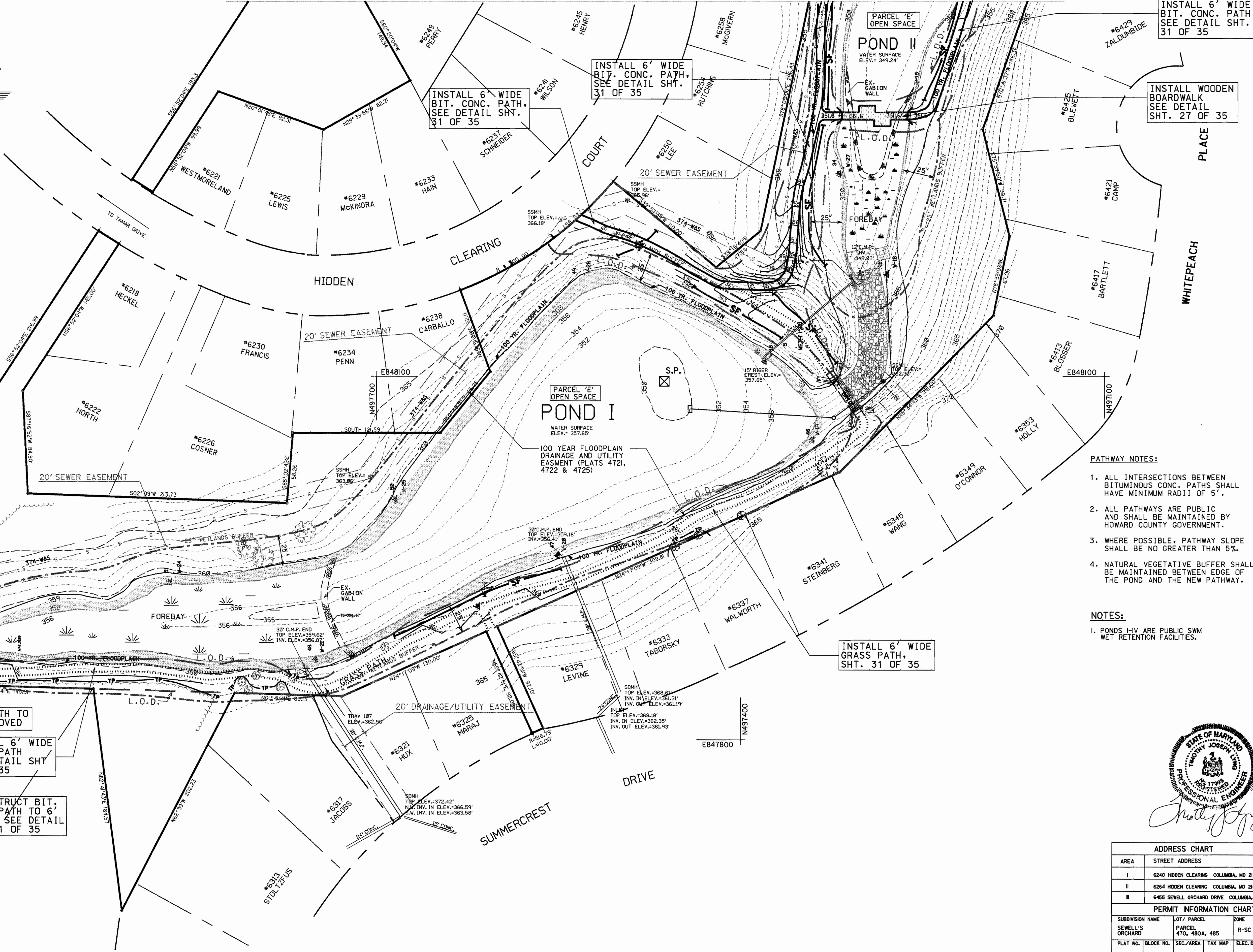
P.E.L.A. DESIGN, INC.  
 PLANNERS, ENGINEERS, & LANDSCAPE ARCHITECTS  
 212 WASHINGTON AVENUE, SUITE 100  
 TOWSON, MD 21204  
 TEL: 410-296-5545  
 FAX: 410-296-5547  
 LILING T. TIEN, RLA

DES: T.J.L. LTT				
DRN: SJC				
CHK: T.J.L. LTT				
DATE: 5-03-01	BY	NO.	REVISION	DATE

**SEDIMENT EROSION CONTROL PLAN (I)**  
 SCALE: 1"=40'

**SEWELL'S ORCHARD COMMUNITY PARK**  
 SEWELL'S ORCHARD DRIVE, COLUMBIA, MD 21045  
 ELECTION DISTRICT: 6 TAX MAP NO. 36 PARCEL NO. 470, 480 & 485  
 PHASE II  
 Capital Project No.: N-3951 Contract Agreement No.: CA-93-52  
 Purchase Order No.: 19484 PELA Project No.: 9316

SCALE AS SHOWN  
 SHEET 13 OF 35



INSTALL 6' WIDE BIT. CONC. PATH. SEE DETAIL SHT. 31 OF 35

INSTALL 6' WIDE BIT. CONC. PATH. SEE DETAIL SHT. 31 OF 35

INSTALL 6' WIDE BIT. CONC. PATH. SEE DETAIL SHT. 31 OF 35

INSTALL WOODEN BOARDWALK SEE DETAIL SHT. 27 OF 35

INSTALL 6' WIDE GRASS PATH. SHT. 31 OF 35

INSTALL 6' WIDE GRASS PATH SEE DETAIL SHT 31 OF 35

RECONSTRUCT BIT. CONC. PATH TO 6' WIDTH. SEE DETAIL SHT. 31 OF 35

- PATHWAY NOTES:**
- ALL INTERSECTIONS BETWEEN BITUMINOUS CONC. PATHS SHALL HAVE MINIMUM RADII OF 5'.
  - ALL PATHWAYS ARE PUBLIC AND SHALL BE MAINTAINED BY HOWARD COUNTY GOVERNMENT.
  - WHERE POSSIBLE, PATHWAY SLOPE SHALL BE NO GREATER THAN 5%.
  - NATURAL VEGETATIVE BUFFER SHALL BE MAINTAINED BETWEEN EDGE OF THE POND AND THE NEW PATHWAY.

- NOTES:**
- PONDS I-IV ARE PUBLIC SWM WET RETENTION FACILITIES.



ADDRESS CHART	
AREA	STREET ADDRESS
I	6240 HIDDEN CLEARING COLUMBIA, MD 21045
II	6264 HIDDEN CLEARING COLUMBIA, MD 21045
III	6455 SEWELL ORCHARD DRIVE COLUMBIA, MD 21045

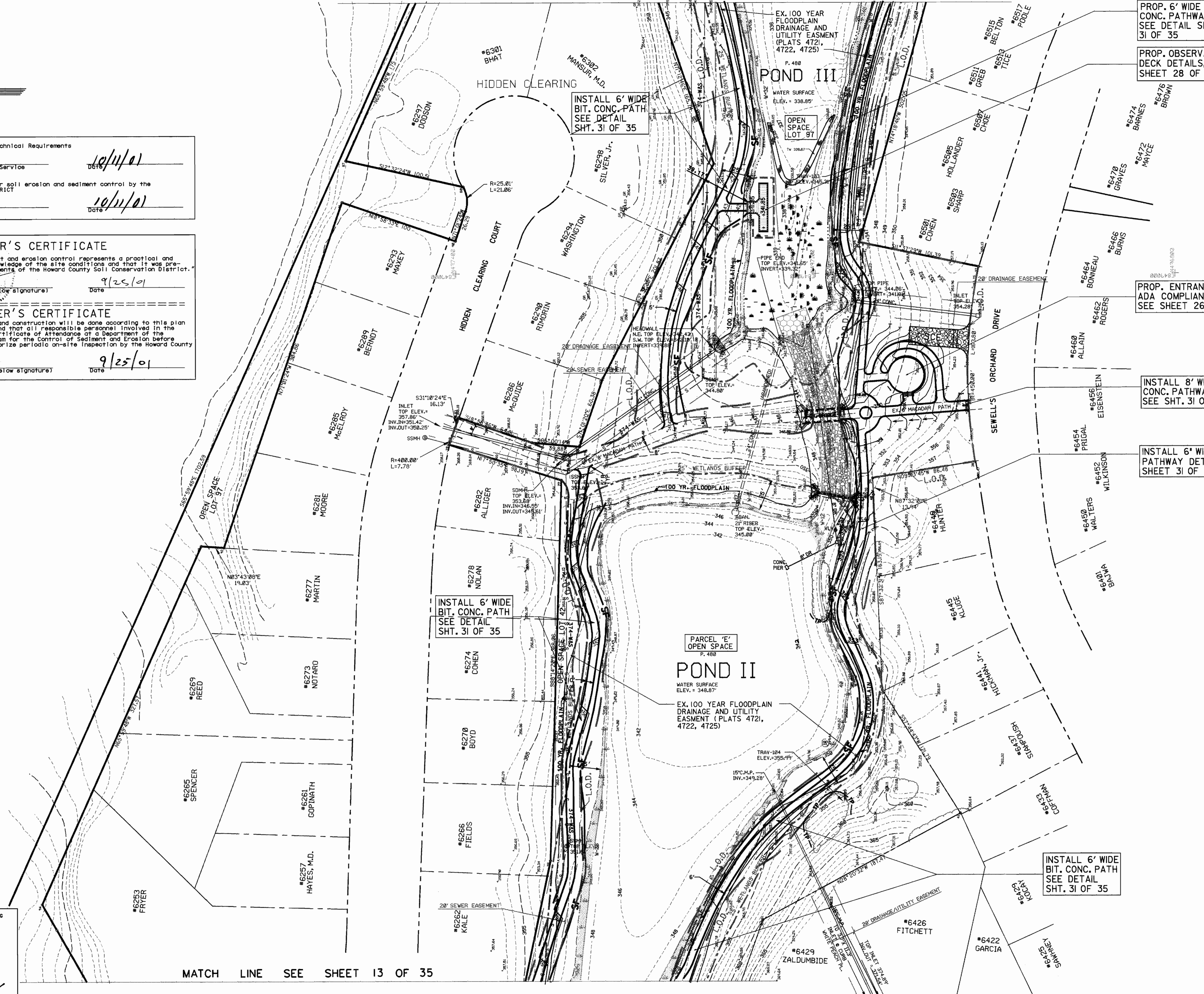
PERMIT INFORMATION CHART				
SUBDIVISION NAME	LOT/ PARCEL	ZONE		
SEWELL'S ORCHARD	PARCEL 470, 480A, 485	R-SC		
PLAT NO.	BLOCK NO.	SEC./AREA	TAX MAP	ELEC. DIST. CENSUS
	1/1	36	6TH	6066.04
WATER CODE	803	SEWER CODE	425000	



MD STATE PLANE MERIDIAN

Reviewed for Howard SCD and meets Technical Requirements  
 Date: 10/11/01  
 Signature: *John M. ...*  
 Date: 10/11/01  
 Signature: *John M. ...*

**ENGINEER'S CERTIFICATE**  
 "I certify that this plan for sediment and erosion control represents a practical and workable plan based on the best knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard County Soil Conservation District."  
 Signature of Engineer: *Meng-uo ...* Date: 9/25/01  
**DEVELOPER'S CERTIFICATE**  
 "I certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance of a Department of the Environment Approved Training Program for the control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard County Soil Conservation District."  
 Signature of Developer: *...* Date: 9/25/01



PROP. 6' WIDE BIT. CONC. PATHWAY SEE DETAIL SHT. 31 OF 35  
 PROP. OBSERVATION DECK DETAILS, SEE SHEET 28 OF 35

PROP. ENTRANCE PLAZA AND ADA COMPLIANT PATH DETAILS, SEE SHEET 26 OF 35

INSTALL 8' WIDE BIT. CONC. PATHWAY DETAILS, SEE SHT. 31 OF 35

INSTALL 6' WIDE BIT. CONC. PATHWAY DETAILS, SEE SHEET 31 OF 35

- PATHWAY NOTES:**
- ALL INTERSECTIONS BETWEEN BITUMINOUS CONC. PATHS SHALL HAVE MINIMUM RADIUS OF 5'.
  - ALL PATHWAYS ARE PUBLIC AND SHALL BE MAINTAINED BY HOWARD COUNTY GOVERNMENT.
  - WHERE POSSIBLE, PATHWAY SLOPE SHALL BE NO GREATER THAN 5%.
  - NATURAL VEGETATIVE BUFFER SHALL BE MAINTAINED BETWEEN EDGE OF THE POND AND THE NEW PATHWAY.

- NOTES:**
- PONDS I-IV ARE PUBLIC SWM WET RETENTION FACILITIES.



ADDRESS CHART	
AREA	STREET ADDRESS
I	6240 HIDDEN CLEARING COLUMBIA, MD 21045
II	6264 HIDDEN CLEARING COLUMBIA, MD 21045
III	6455 SEWELL ORCHARD DRIVE COLUMBIA, MD 21045

PERMIT INFORMATION CHART				
SUBDIVISION NAME	LOT/ PARCEL	ZONE		
SEWELL'S ORCHARD	PARCEL 470, 480A, 485	R-SC		
PLAT NO.	BLOCK NO.	SEC./AREA	TAX MAP	ELEC. DIST.
		2/1 36	6TH	6066.04
WATER CODE		SEWER CODE		
803		425000		

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
 DATE: 10/11/01  
 Signature: *...*  
 DATE: 10/23/01  
 Signature: *...*  
 DATE: 10/25/01  
 Signature: *...*

MATCH LINE SEE SHEET 13 OF 35

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 Signature: *...* DATE: 9/26/01  
 Signature: *Elizabeth A. ...* DATE: 9/26/01

DEPARTMENT OF RECREATION & PARKS  
 HOWARD COUNTY, MARYLAND  
 APPROVED: *...* DATE: 9-18-01  
 Signature: *...* DATE: 9-18-01

**P.E.L.A. DESIGN, INC.**  
 PLANNERS, ENGINEERS, & LANDSCAPE ARCHITECTS  
 212 WASHINGTON AVENUE, SUITE 100  
 TOWSON, MD 21204  
 TEL: 410-296-5545  
 FAX: 410-296-5547  
 LILING T. TIEN, RLA

DES: TJL, LTT				
DRN: SJC				
CHK: TJL, LTT				
DATE: 5-03-01	BY NO.	REVISION	DATE	

**SEDIMENT EROSION CONTROL PLAN (2)**  
 SCALE: 1"=40'

**SEWELL'S ORCHARD COMMUNITY PARK**  
 SEWELL'S ORCHARD DRIVE, COLUMBIA, MD 21045  
 ELECTION DISTRICT: 6 TAX MAP NO. 36 PARCEL NO. 470, 480 & 485  
 PHASE II  
 Capital Project No.: N-3951 Contract Agreement No.: CA-93-52  
 Purchase Order No.: 19484 P.E.L.A. Project No.: 9316

SCALE AS SHOWN  
 SHEET 14 OF 35



MD. STATE PLANE MERIDIAN

INSTALL FISHING PIER SEE SHEET 29 & 30 OF 35

INSTALL 6' WIDE BIT. CONC. PATHWAY, SEE SHEET 31 OF 35

INSTALL 6' WIDE BIT. CONC. PATHWAY, SEE SHEET 31 OF 35

INSTALL 6' WIDE BIT. CONC. PATHWAY, SEE SHEET 31 OF 35

Reviewed for Howard SCD and meets Technical Requirements  
 Date: 10/11/01  
 Signature: Jim Myers  
 Title: USDA-NRCS Resource Conservation Service

This development plan is approved for soil erosion and sediment control by the  
 Date: 10/11/01  
 Signature: Jim Hlawbeck  
 Title: Howard County SCD

**ENGINEER'S CERTIFICATE**  
 I certify that this plan for sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard County Soil Conservation District.  
 Signature of Engineer: [Signature]  
 Date: 9-25-01

**DEVELOPER'S CERTIFICATE**  
 I/we certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard County Soil Conservation District.  
 Signature of Developer: [Signature]  
 Date: 9/25/01

**PATHWAY NOTES:**

1. ALL INTERSECTIONS BETWEEN BITUMINOUS CONC. PATHS SHALL HAVE MINIMUM RADII OF 5'.
2. ALL PATHWAYS ARE PUBLIC AND SHALL BE MAINTAINED BY HOWARD COUNTY GOVERNMENT.
3. WHERE POSSIBLE, PATHWAY SLOPE SHALL BE NO GREATER THAN 5%.
4. NATURAL VEGETATIVE BUFFER SHALL BE MAINTAINED BETWEEN EDGE OF THE POND AND THE NEW PATHWAY.

PROP. PICNIC AREA WITH TOT LOT, FOR PICNIC TABLE DETAILS SEE SHEET 31 OF 35. FOR TOT LOT DETAIL, SEE SHEET 26 OF 35

**NOTES:**

1. PONDS I-IV ARE PUBLIC SWM WET RETENTION FACILITIES.

INSTALL 6' WIDE BIT. CONC. PATHWAY, SEE SHEET 31 OF 35

INSTALL 6' WIDE BIT. CONC. PATHWAY, SEE SHEET 31 OF 35

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
 [Signatures and Dates]

MATCH LINE SEE SHEET 14 OF 35

MATCH LINE SEE SHEET 16 OF 35

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 [Signatures and Dates]

DEPARTMENT OF RECREATION & PARKS  
 HOWARD COUNTY, MARYLAND  
 APPROVED: [Signature]  
 DATE: 9-18-01

**P.E.L.A. DESIGN, INC.**  
 PLANNERS, ENGINEERS, & LANDSCAPE ARCHITECTS  
 212 WASHINGTON AVENUE, SUITE 100  
 TOWSON, MD 21204  
 TEL: 410-296-5545  
 FAX: 410-296-5547  
 LILING T. TIEN, RLA

DES:	TJL, LTT				
DRN:	SJC				
CHK:	TJL, LTT				
DATE:	5-03-01	BY:	NO.	REVISION	DATE

**SEDIMENT EROSION CONTROL PLAN (3)**  
 SCALE: 1"=40'

**SEWELL'S ORCHARD COMMUNITY PARK**  
 SEWELL'S ORCHARD DRIVE, COLUMBIA, MD 21045  
 ELECTION DISTRICT: 6 TAX MAP NO. 36 PARCEL NO. 470, 480 & 485  
**PHASE II**  
 Capital Project No. N-3951 Contract Agreement No. CA-93-52  
 Purchase Order No. 19484 PEL A Project No. 9316

SCALE AS SHOWN  
 SHEET 15 OF 35



ADDRESS CHART	
AREA	STREET ADDRESS
I	6240 HIDDEN CLEARING COLUMBIA, MD 21045
II	6264 HIDDEN CLEARING COLUMBIA, MD 21045
III	6456 SEWELL ORCHARD DRIVE COLUMBIA, MD 21045

PERMIT INFORMATION CHART					
SUBDIVISION NAME	LOT / PARCEL	ZONE			
SEWELL'S ORCHARD	PARCEL 470, 480A, 485	R-SC			
PLAY NO.	BLOCK NO.	SEC./AREA	TAX MAP	ELEC. DIST.	CENSUS
	2/1	36	6TH		6066.04
WATER CODE	803	SEWER CODE	425000		



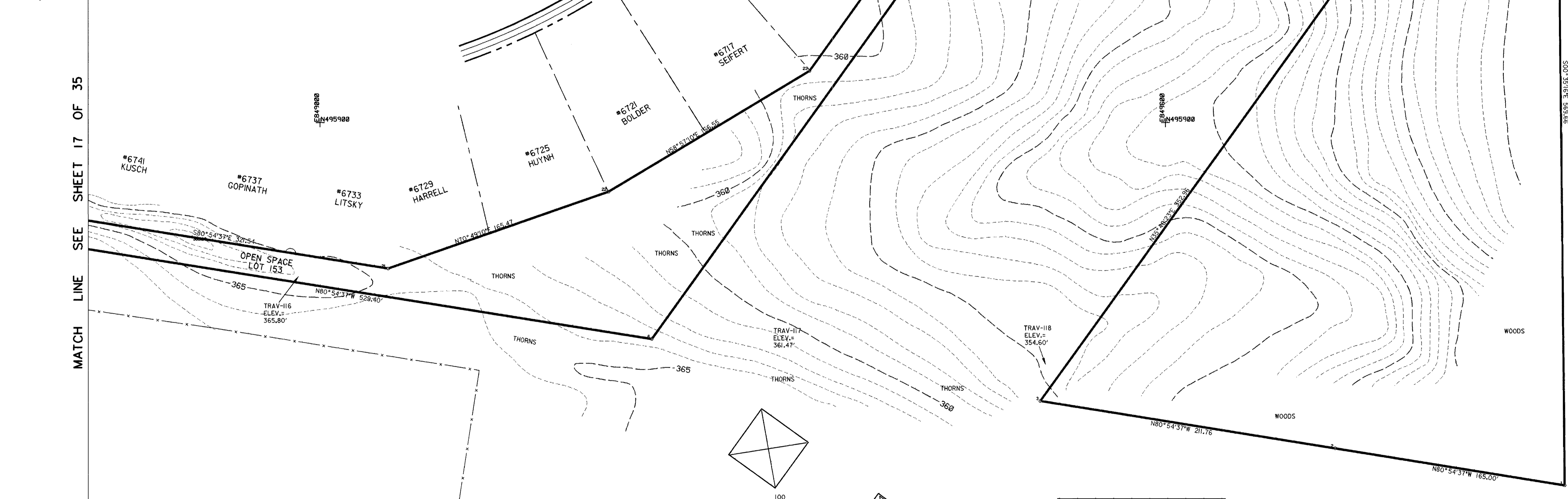
INSTALL 6' WIDE BIT. CONC. PATHWAY, SEE SHEET 31 OF 35

MATCH LINE SEE SHEET 15 OF 35

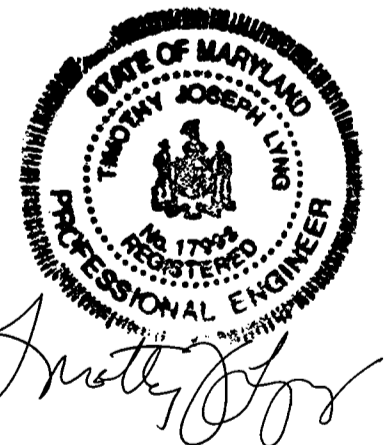
Reviewed for Howard SCD and meets Technical Requirements  
 Jim Meyer 10/11/01  
 Date  
 This development plan is approved for soil erosion and sediment control by the  
 John J. Roberts 10/11/01  
 Date

**ENGINEERING CERTIFICATE**  
 "I certify that this plan for sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard County Soil Conservation District."  
 Signature of Engineer (Print name below signature) Date  
 CHENG-HO LIN 9/25/01  
**DEVELOPER'S CERTIFICATE**  
 "I/we certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard County Soil Conservation District."  
 Signature of Developer (Print name below signature) Date  
 9/25/01

- PATHWAY NOTES:**
1. ALL INTERSECTIONS BETWEEN BITUMINOUS CONC. PATHS SHALL HAVE MINIMUM RADII OF 5'.
  2. ALL PATHWAYS ARE PUBLIC AND SHALL BE MAINTAINED BY HOWARD COUNTY GOVERNMENT.
  3. WHERE POSSIBLE, PATHWAY SLOPE SHALL BE NO GREATER THAN 5%.



NOTE: CONSTRUCT ONLY THAT LENGTH OF PATHWAY WHICH CAN BE STABILIZED IN ONE DAY. NO SEDIMENT AND EROSION CONTROL DEVICES REQUIRED.



ADDRESS CHART	
AREA	STREET ADDRESS
I	6240 HIDDEN CLEARING COLUMBIA, MD 21045
II	6264 HIDDEN CLEARING COLUMBIA, MD 21045
III	6455 SEWELL ORCHARD DRIVE COLUMBIA, MD 21045

PERMIT INFORMATION CHART				
SUBDIVISION NAME	LOT/ PARCEL	ZONE		
SEWELL'S ORCHARD	PARCEL 470, 480A, 485	R-SC		
PLAT NO.	BLOCK NO.	SEC./AREA	TAX MAP	CENSUS
		36	6TH	6066.04
WATER CODE		SEWER CODE		
803		425000		

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
 Chief, Development Engineering Division 10/11/01  
 Chief, Division of Land Development 10/25/01  
 Director 10/25/01

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 Director of Public Works 9/26/01  
 Chief - Bureau of Engineering, acting 9/26/01

DEPARTMENT OF RECREATION & PARKS  
 HOWARD COUNTY, MARYLAND  
 APPROVED: 9-18-01  
 Director, Department of Recreation & Parks

**P.E.L.A. DESIGN, INC.**  
 PLANNERS, ENGINEERS, & LANDSCAPE ARCHITECTS  
 212 WASHINGTON AVENUE, SUITE 100  
 TOWSON, MD 21204  
 TEL: 410-296-5545  
 FAX: 410-296-5547  
 LILING T. TIEN, RLA

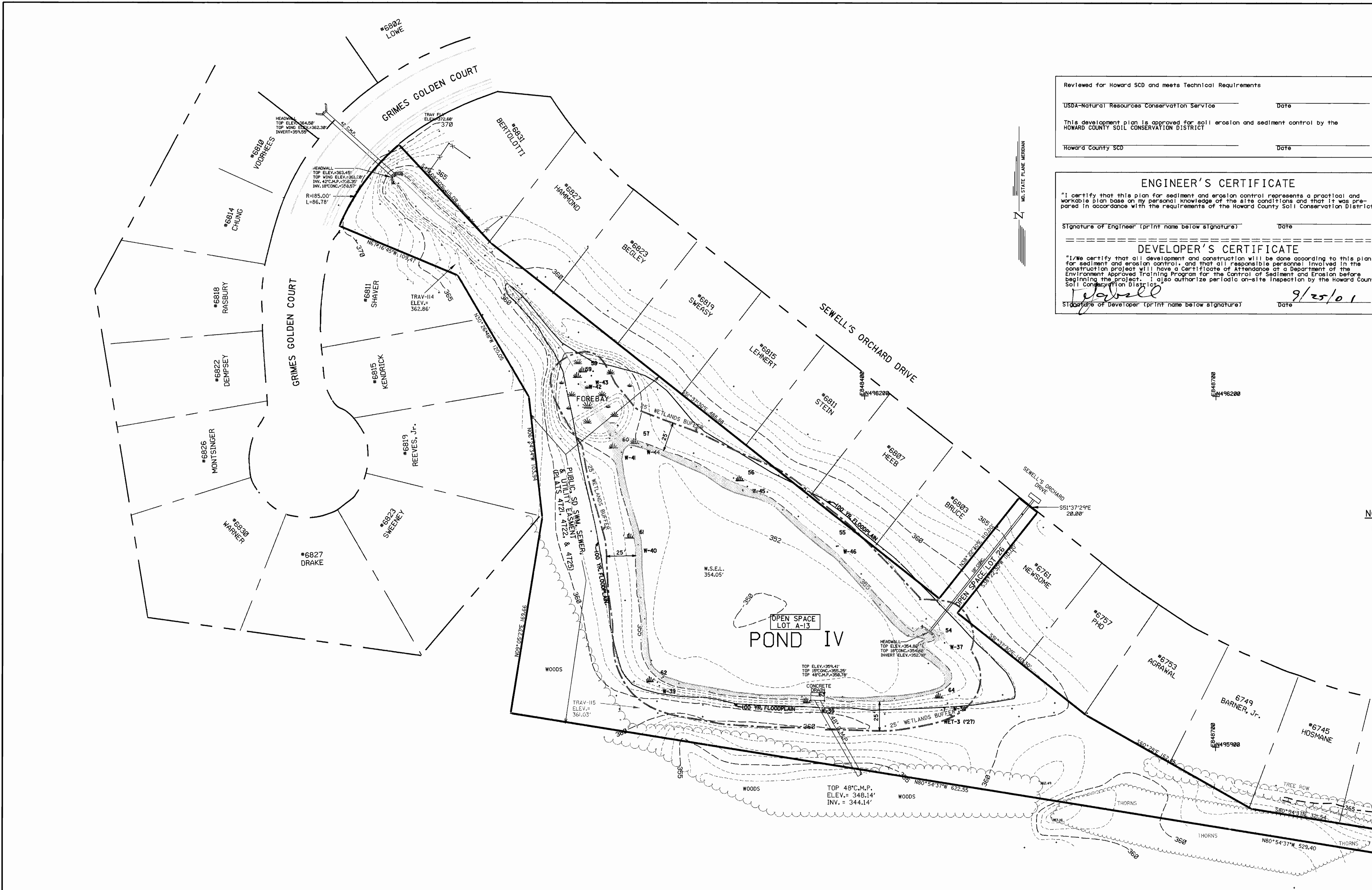
DES:	T.J.L. LTT	DATE	BY	NO.	REVISION	DATE
DRN:	SJC					
CHK:	T.J.L. LTT					
DATE:	5-03-01					

**SEDIMENT EROSION CONTROL PLAN (4)**  
 SCALE: 1"=40'

**SEWELL'S ORCHARD COMMUNITY PARK**  
 SEWELL'S ORCHARD DRIVE, COLUMBIA, MD 21045  
 ELECTION DISTRICT: 6 TAX MAP NO. 36 PARCEL NO. 470, 480 & 485  
 PHASE II  
 Capital Project No.: N-3951 Contract Agreement No.: CA-93-52  
 Purchase Order No.: 19484 PELA Project No.: 9316

SCALE AS SHOWN  
 SHEET 16 OF 35





Reviewed for Howard SCD and meets Technical Requirements

USDA-Natural Resources Conservation Service \_\_\_\_\_ Date \_\_\_\_\_

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

Howard County SCD \_\_\_\_\_ Date \_\_\_\_\_

**ENGINEER'S CERTIFICATE**

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

Signature of Engineer (print name below signature) \_\_\_\_\_ Date \_\_\_\_\_

**DEVELOPER'S CERTIFICATE**

"I/we certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard County Soil Conservation District."

Signature of Developer (print name below signature) *J. Powell* Date *9/25/01*

**NOTES:**

I. PONDS I-IV ARE PUBLIC SWM WET RETENTION FACILITIES.

**NOTES:**

1. RETAIN EXISTING VEGETATIVE BUFFER AROUND POND IV.
2. NO GRASS PATH OR BITUMINOUS CONC. PATH WILL BE BUILT IN THIS AREA.
3. DO NOT DISTURB WETLAND FOREBAY CREATED IN PHASE I.

NOTE: ONLY DISTURB THOSE AREAS WHICH CAN BE STABILIZED SAME DAY. NO SEDIMENT AND EROSION CONTROL DEVICES REQUIRED.

NOTE TO CONTRACTOR:  
NO BUILT IMPROVEMENTS ARE SCHEDULED FOR THE AREA COVERED BY THIS SHEET. SEE SHEETS 24 AND 25 OF 35 FOR PLANTING PLAN AND PLANTING SCHEDULE AND DETAILS, RESPECTIVELY.

MATCH LINE SEE SHEET 16 OF 35



*Matthew J. Powell*

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

\_\_\_\_\_  
CHIEF, DEVELOPMENT ENGINEERING DIVISION  
\_\_\_\_\_  
CHIEF, DIVISION OF LAND DEVELOPMENT  
\_\_\_\_\_  
DIRECTOR

DATE: 10/16/01  
DATE: 10/23/01  
DATE: 10/23/01

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

\_\_\_\_\_  
DIRECTOR OF PUBLIC WORKS  
\_\_\_\_\_  
CHIEF - BUREAU OF ENGINEERING, acting

DATE: 9/26/01  
DATE: 9/20/01

DEPARTMENT OF RECREATION & PARKS  
HOWARD COUNTY, MARYLAND

APPROVED: \_\_\_\_\_  
DIRECTOR, DEPARTMENT OF RECREATION & PARKS

DATE: 7-18-01

**P.E.L.A. DESIGN, INC.**  
PLANNERS, ENGINEERS, & LANDSCAPE ARCHITECTS  
212 WASHINGTON AVENUE, SUITE 100  
TOWSON, MD 21204  
TEL: 410-296-5545  
FAX: 410-296-5547  
LILLING T. TIEN, RLA

DES: T.J.L. LTT				
DRN: SJC				
CHK: T.J.L. LTT				
DATE: 5-03-01	BY:	NO.	REVISION	DATE

**SEDIMENT EROSION CONTROL PLAN (5)**

SCALE: 1"=40'

**SEWELL'S ORCHARD COMMUNITY PARK**  
SEWELL'S ORCHARD DRIVE, COLUMBIA, MD 21045  
ELECTION DISTRICT: 6 TAX MAP NO. 36 PARCEL NO. 470, 480 & 485

**PHASE II**

Capital Project No.: N-3951 Contract Agreement No.: CA-93-52  
Purchase Order No.: 19484 PELA Project No.: 93.16

SCALE SHOWN

SHEET 17 OF 35



**GENERAL NOTES**

- REFER TO '1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL' FOR STANDARD DETAILS AND DETAILED SPECIFICATIONS OF EACH PRACTICE SPECIFIED HEREIN.
- WITH THE APPROVAL OF SEDIMENT CONTROL INSPECTOR, MINOR FIELD ADJUSTMENTS CAN AND WILL BE MADE TO INSURE THE CONTROL OF ANY SEDIMENT CHANGES IN SEDIMENT CONTROL PRACTICES REQUIRE PRIOR APPROVAL OF SEDIMENT CONTROL INSPECTOR AND THE HOWARD COUNTY SOIL CONSERVATION DISTRICT
- AT THE END OF EACH WORKING DAY ALL SEDIMENT CONTROL PRACTICES WILL BE INSPECTED AND LEFT IN OPERATIONAL CONDITION.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN (A) SEVEN CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) AND (B) FOURTEEN DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ANY CHANGE TO THE GRADING PROPOSED ON THIS PLAN REQUIRES RE-SUBMISSION TO HOWARD COUNTY SOIL CONSERVATION DISTRICT FOR APPROVAL.
- DUST CONTROL WILL BE PROVIDED FOR ALL DISTURBED AREAS. REFER TO '1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL', P.P. 62.01 AND 62.02 FOR ACCEPTABLE METHODS AND SPECIFICATIONS FOR DUST CONTROL.
- ANY VARIATION FROM THE SEQUENCE OF OPERATIONS STATED ON THIS PLAN REQUIRES THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND THE HOWARD COUNTY SOIL CONSERVATION DISTRICT PRIOR TO THE INITIATION OF THE CHANGE.
- ANY EXCESS CUT OR BORROW MATERIAL WILL BE TAKEN TO OR BROUGHT FROM A SITE WITH AN APPROVED SEDIMENT CONTROL PLAN.
- TOTAL AREA OF TRACT: SEE 'SITE DATA', BELOW.
- TOTAL DISTURBED AREA: SEE 'SITE DATA', BELOW.
- REFER TO 'MARYLAND GUIDELINES TO WATERWAY CONSTRUCTION' BY THE WATER RESOURCES ADMINISTRATION (WRA), DATED JANUARY, 1986 FOR STANDARD DETAILS AND DETAILED SPECIFICATIONS OF EACH PRACTICE SPECIFIED HEREIN FOR WATERWAY CONSTRUCTION.

**SEDIMENT CONTROL NOTES**

- A minimum of 48 hours notice must be given to the Howard County Department of Inspections, Licenses and Permits, Sediment Control Division prior to the start of any construction, (880-3450).
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the most current 'MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL', and revisions thereto.
- Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seeding (Sec. 51), sod (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- Site Analysis:
 

Total Area of Site	25(+/-) Acres
Area Disturbed	4.22 Acres
Area to be roofed or paved	.17 Acres
Area to be vegetatively stabilized	4.05 Acres
Total Cut	385 Cu. Yds.
Total Fill	353 Cu. Yds.
Offsite waste/borrow area location	Alpha Ridge
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment control must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
- On all sites with disturbed areas in excess of 2 acres, approval of the Inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the Inspection agency is made.
- Trenches for the construction of utilities is limited to three pipe lengths or that which can be back filled and stabilized within one working day, whichever is shorter.

THESE PLANS FOR SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

*John Holbert*  
HOWARD COUNTY SOIL CONSERVATION DISTRICT

DEPARTMENT OF RECREATION & PARKS  
HOWARD COUNTY, MARYLAND

APPROVED: *Garrett C. ...*  
DIRECTOR, DEPARTMENT OF RECREATION & PARKS

**TEMPORARY SEEDING NOTES**

SEEDBED PREPARATION:  
LOOSEN UPPER 3 INCHES BY DISCING, RAKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

SOIL AMENDMENTS:  
APPLY 600 LBS. PER ACRE (14 LBS./1,000 SQ. FT.) OF 10-10-10 FERTILIZER.

SEEDING:  
FOR PERIODS MARCH 1 THRU APRIL 30, AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 2 1/2 BU. PER ACRE OF ANNUAL RYE (3.2 LBS./1,000 SQ. FT.). FOR THE PERIOD MAY 1, THRU AUG. 14, SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (0.7 LBS./1,000 SQ. FT.). FOR PERIOD NOV. 16 THRU FEB. 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

MULCHING:  
APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1,000 SQ. FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING 218 GALLONS PER ACRE (5 GALLONS/1,000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 8 FEET OR HIGHER USE 348 GALLONS PER ACRE (8 GALLONS/1,000 SQ. FT.) FOR ANCHORING.

**SEQUENCE OF CONSTRUCTION**

Task	Duration (Days)
1. Obtain a grading permit.....	1
2. Advise Howard County Department of Inspections, Licenses and Permits, Sediment Control Division, 48 hours prior to start of construction at tel 880-3450.....	1
3. Advise Miss Utility 72 Hours prior to start of construction at tel 1-800-257-7777.....	1
4. Install sediment and erosion control devices.....	3
5. Notify Sediment Control Inspector and obtain approval before proceeding any further.....	1
6. Prepare sheeting plans for retaining Pond I waters for construction of the timber abutments for boardwalk and observation deck. Plan must be signed and sealed by a Professional Engineer, and copy of plan and calculations approved by the County's engineer.....	5
7. Prepare sheeting plan for retaining Pond II waters for construction of the timber abutments for fishing pier. Plan must be signed and sealed by a Professional Engineer, and copy of plan and calculations approved by the County's engineer.....	5
8. Construct sheeting at each location and construct timber abutments. Set up pile driving operation and install all piles for timber structures. Complete construction of deck, boardwalk and fishing pier.....	60
9. Grade areas of construction of park entrance and pathways. Construct park entrance plaza, bituminous pathways, and grass paths. Install picnic tables in conc. pads, and install benches in their respective concrete footings.....	45
10. Install landscape elements in the park as shown on the Plan.....	10
11. Stabilize all disturbed areas.....	5
12. When all disturbed areas are stabilized and with permission of Howard County Sediment Control Inspector, remove all Sediment Control devices.....	2

FOR PERMANENT SEEDING SEE SPECIFICATIONS SECTION 0248I

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

*Jim Meyer*  
U.S. SOIL CONSERVATION SERVICE  
DATE: 10/11/01

BY THE OWNER/ DEVELOPER

"I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THE PLANS AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.

I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT."

*Elizabeth A. Calia*  
SIGNATURE OF OWNER/ DEVELOPER  
DATE: 9/20/01  
PRINT NAME BELOW SIGNATURE: Elizabeth A. Calia, Acting Chief, Bureau of Eng'g.

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. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

*Matthew A. Meyer*  
SIGNATURE OF ENGINEER  
DATE: 11-30-00  
PRINT NAME BELOW SIGNATURE: Matthew A. Meyer

APPROVED: DEPARTMENT OF PLANNING & ZONING

*Charles ...*  
DATE: 10/11/01

*Charles ...*  
DATE: 11/23/01

*James ...*  
DATE: 11/23/01

**PERMANENT SEEDING NOTES**

ALL DISTURBED AREAS SHALL BE STABILIZED AS FOLLOWS:

SEEDBED PREPARATION:  
LOOSEN UPPER 3 INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

SOIL AMENDMENTS:  
APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1,000 SQ. FT.) AND 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1,000 SQ. FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREA-FORM FERTILIZER (9 LBS./1,000 SQ. FT.).

SEEDING:  
FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE (1.4 LBS./1,000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS. KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS. PER ACRE (0.05 LBS./1,000 SQ. FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

MULCHING:  
APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1,000 SQ. FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL./1,000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES OF 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL./1,000 SQ. FT.) FOR ANCHORING.

MAINTENANCE:  
INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS, AND RESEEDINGS.

**STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION WITH SOD**

- CLASS OF TURFGRASS SOD SHALL BE MARYLAND OR VIRGINIA STATE CERTIFIED, OR MARYLAND OR VIRGINIA STATE APPROVED SOD.
- SOD SHALL BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 3/4 INCH, PLUS OR MINUS 1/4 INCH, AT THE TIME OF CUTTING. MEASUREMENT FOR THICKNESS SHALL EXCLUDE TOP GROWTH AND THATCH.
- STANDARD SIZE SECTIONS OF SOD SHALL 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.
- INDIVIDUAL PIECES OF SOD SHALL BE CUT TO THE SUPPLIERS WIDTH AND LENGTH. MAXIMUM ALLOWABLE DEVIATION FROM STANDARD WIDTHS AND LENGTHS SHALL BE 5 PERCENT. BROKEN PADS OR TORN OR UNEVEN ENDS WILL NOT BE ACCEPTABLE.
- SOD SHALL NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY OR WET) MAY ADVERSELY AFFECT ITS SURVIVAL.
- SOD SHALL BE HARVESTED, DELIVERED AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD NOT TRANSPLANTED WITHIN THIS PERIOD SHALL BE INSPECTED AND APPROVED PRIOR TO ITS INSTALLATION.

**I. SITE PREPARATION**

FERTILIZER AND LIME APPLICATION RATES SHALL BE DETERMINED BY SOIL TESTS, UNDER UNUSUAL CIRCUMSTANCES WHERE THERE IS INSUFFICIENT TIME FOR A COMPLETE SOIL TEST, FERTILIZER AND LIME MATERIALS MAY BE APPLIED IN AMOUNTS SHOWN UNDER B, BELOW.

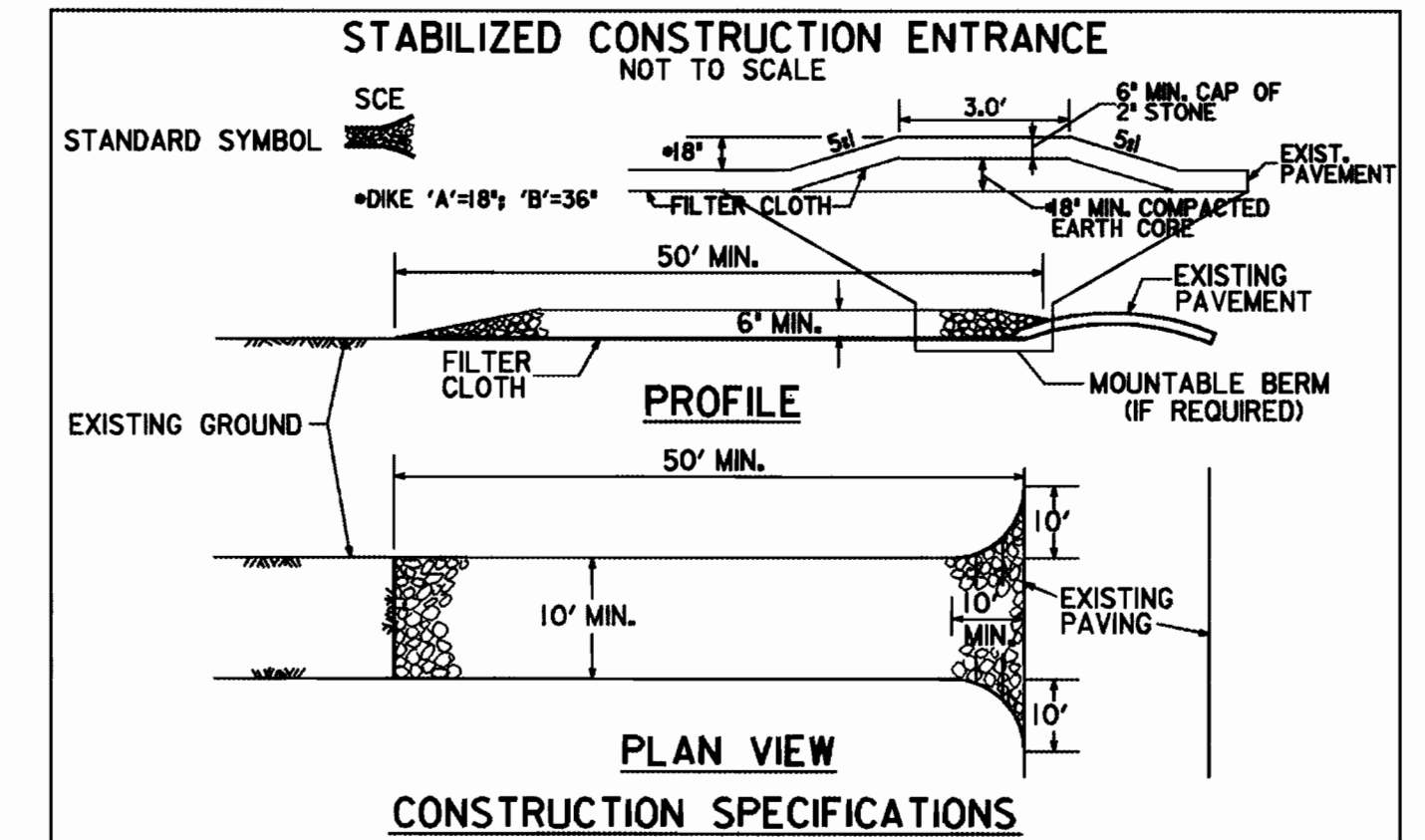
- PRIOR TO SODDING, THE SURFACE SHALL BE CLEARED OF ALL TRASH, DEBRIS, AND OF ALL ROOTS, BRUSH, WIRE, GRADE STAKES AND OTHER OBJECTS THAT WOULD INTERFERE WITH PLANTING, FERTILIZING OR MAINTENANCE OPERATIONS.
- WHERE THE SOIL IS ACID OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 2 TONS/ACRE OR 100 POUNDS PER 1,000 SQUARE FEET. IN ALL SOILS 1,000 POUNDS PER ACRE OR 25 POUNDS PER 1,000 SQUARE FEET OF 10-10-10 FERTILIZER OR EQUIVALENT SHALL BE UNIFORMLY APPLIED AND MIXED INTO THE TOP 3 INCHES OF SOIL WITH THE REQUIRED LIME.
- ALL AREAS RECEIVING SOD SHALL BE UNIFORMLY FINE GRADED. HARD-PACKED EARTH SHALL BE SCARIFIED PRIOR TO PLACEMENT OF SOD.

**II. SOD INSTALLATION**

- DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURE THE SOIL SHALL BE LIGHTLY IRRIGATED IMMEDIATELY PRIOR TO LAYING OF SOD.
- THE FIRST ROW OF SOD SHALL BE LAID IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO AND TIGHTLY WEDGED AGAINST EACH OTHER. LATERAL JOINTS SHALL BE STAGGERED TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. INSURE 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.
- ON SLOPING AREAS WHERE EROSION MAY BE A PROBLEM, SOD SHALL BE LAID WITH THE LONG EDGES PARALLEL TO THE CONTOUR AND WITH STAGGERED JOINTS. SECURE THE SOD BY TAMPING AND PEGGING OR OTHER APPROVED METHODS.
- AS SODDING IS COMPLETED IN ANY ONE SECTION, THE ENTIRE AREA SHALL BE ROLLED OR TAMPED TO INSURE SOLID CONTACT OF ROOTS WITH THE SOIL SURFACE. SOD SHALL BE WATERED IMMEDIATELY AFTER ROLLING OR TAMPING UNTIL THE UNDERSIDE OF THE NEW SOD PAD AND SOIL SURFACE BELOW THE SOD ARE THOROUGHLY WET. THE OPERATIONS OF LAYING, TAMPING AND IRRIGATING FOR ANY PIECE OF SOD SHALL BE COMPLETED WITHIN EIGHT HOURS.

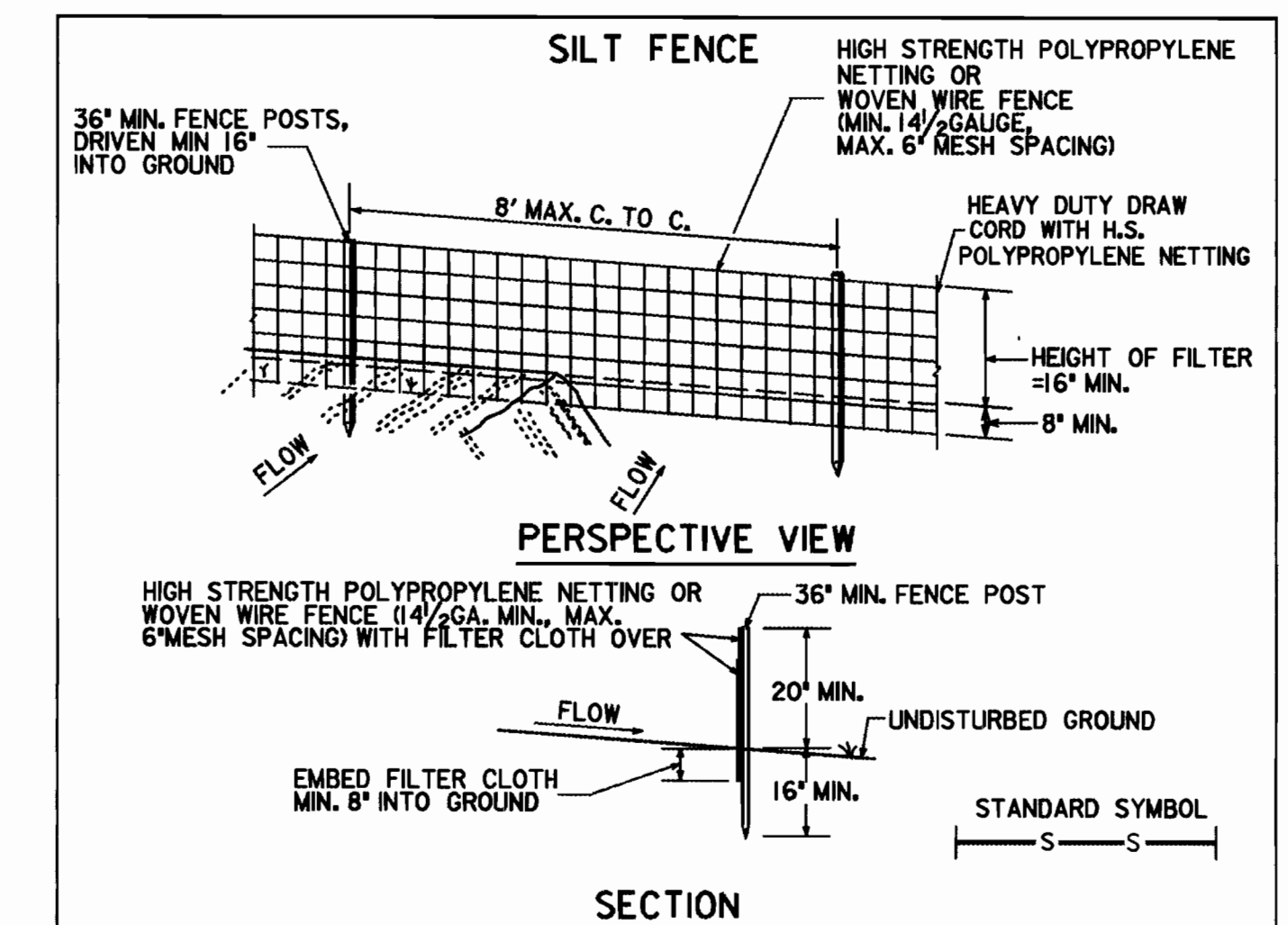
**III. SOD MAINTENANCE**

- IN THE ABSENCE OF ADEQUATE RAINFALL, WATERING SHALL BE PERFORMED DAILY OR AS OFTEN AS NECESSARY DURING THE FIRST WEEK AND IN SUFFICIENT QUANTITIES TO MAINTAIN MOIST SOIL TO A DEPTH OF 4 INCHES. WATERING SHOULD BE DONE DURING THE HEAT OF THE DAY TO PREVENT WILTING.
- AFTER THE FIRST WEEK, SOD SHALL BE WATERED AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE AND INSURE ESTABLISHMENT.
- FIRST MOWING SHOULD NOT BE ATTEMPTED UNTIL SOD IS FIRMLY ROOTED. NO MORE THAN 1/3 OF THE GRASS LEAF SHALL BE REMOVED BY THE INITIAL CUTTING OR SUBSEQUENT CUTTINGS. GRASS HEIGHT SHALL BE MAINTAINED BETWEEN 2 AND 3 INCHES UNLESS OTHERWISE SPECIFIED.
- MAINTENANCE OF ESTABLISHED SOD SHOULD FOLLOW SPECIFICATIONS OUTLINED IN TABLE 54-1.



- CONSTRUCTION SPECIFICATIONS**
- STONE SIZE - USE #2 STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
  - LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
  - THICKNESS - NOT LESS THAN SIX (6) INCHES.
  - WIDTH - TEN (10) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
  - FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT.
  - SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
  - MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
  - WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
  - PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND	<b>STABILIZED CONSTRUCTION ENTRANCE</b>	STANDARD DRAWING SCE-1
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**CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**

- HIGH STRENGTH POLYPROPYLENE NETTING OR WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. TYPE OR 1/4" X 1/4" MIN. (ACTUAL) HARDWOOD
- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE: WOVEN WIRE, 14 GA. 6" MAX. MESH OPENING OR HIGH STRENGTH POLYPROPYLENE NETTING
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH: FILTER X, MIRAF100X, STAB-LINKA 1140N OR APPROVED EQUAL
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN 'BULGES' DEVELOP IN THE SILT FENCE. PREFABRICATED UNIT: GEOFAB ENVIRONMENT, OR APPROVED EQUAL

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND	<b>SILT FENCE</b>	STANDARD DRAWING SF-1
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DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

APPROVED: *James ...*  
DIRECTOR OF PUBLIC WORKS

DEPARTMENT OF RECREATION & PARKS  
HOWARD COUNTY, MARYLAND

APPROVED: *Garrett C. ...*  
DIRECTOR, DEPARTMENT OF RECREATION & PARKS

P.E.L.A. DESIGN, INC.  
PLANNERS, ENGINEERS, & LANDSCAPE ARCHITECTS

212 WASHINGTON AVENUE, SUITE 100  
TOWSON, MD 21204  
TEL: 410-296-5545  
FAX: 410-296-5547

DESIGN	T.J.L. LTT	DATE	
DRN	SJC		
CHK	T.J.L. LTT		
DATE	11-30-00		
BY	NO.	REVISION	DATE

SEDIMENT & EROSION CONTROL

DETAILS AND NOTES  
SCALE: NONE

SEWELL'S ORCHARD COMMUNITY PARK  
SEWELL'S ORCHARD DRIVE, COLUMBIA, MD 21045  
ELECTION DISTRICT: 6 TAX MAP NO. 36 PARCEL NO. 470, 480 & 485

PHASE II  
Capital Project No. N-3951 Contract Agreement No. CA-93-52  
Purchase Order No. 19484 PELA Project No. 93J6

SCALE AS SHOWN
SHEET 18 OF 35

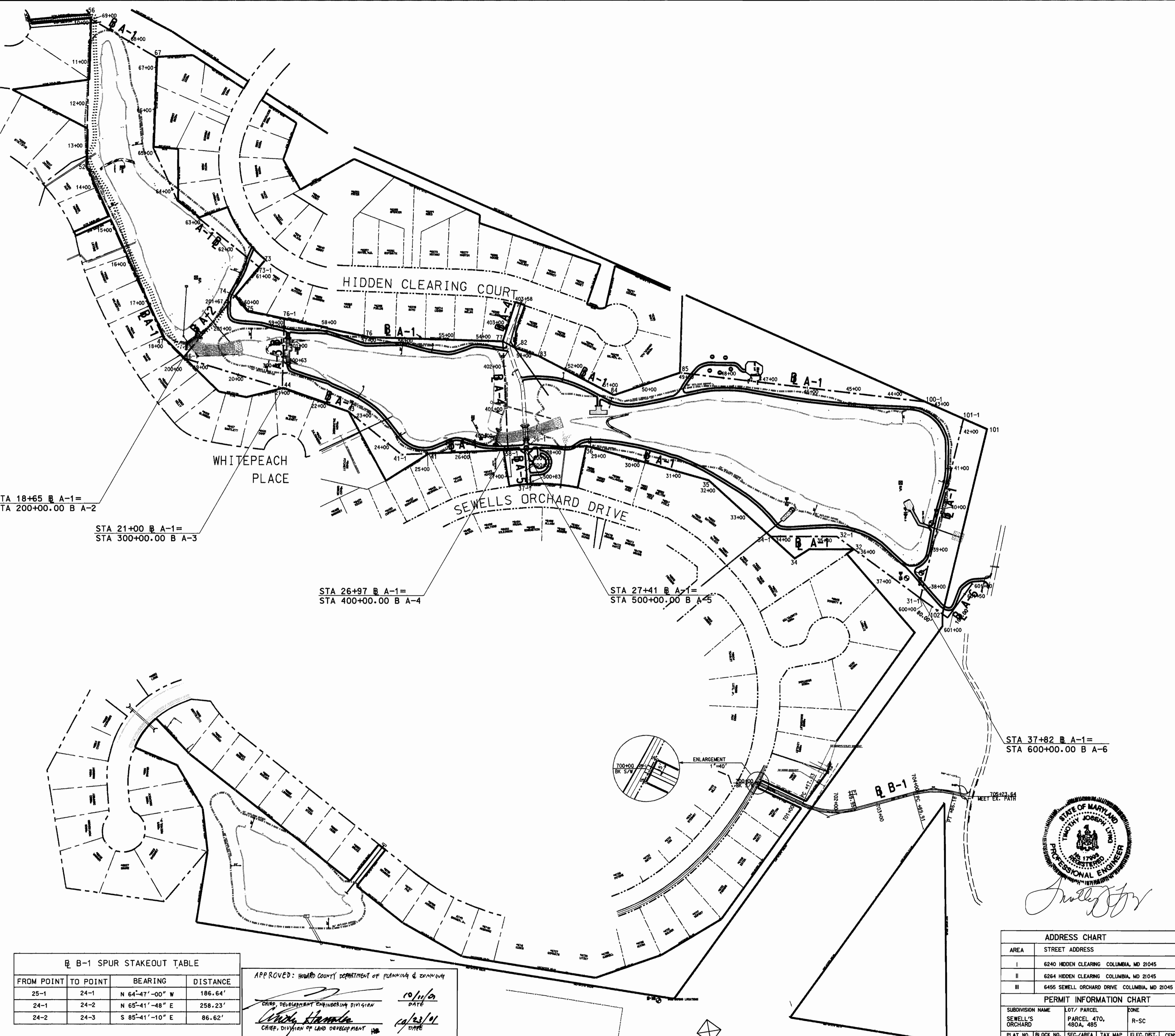


PATH STAKEOUT TABLE			
B	STATION	OFFSET (FT)	REMARKS
A-1	10+00	9'	GRASS PATH
"	10+50	10'	"
"	11+00	12'	"
"	11+50	17'	"
"	12+00	17'	"
"	12+40	8'	CURVE GRASS PATH AROUND TREES
"	12+75	22'	"
"	13+00	14'	"
"	13+30	5'	"
"	13+70	11'	GRASS PATH
"	14+00	15'	"
"	14+53	21'	"
"	14+85	6'	"
"	15+00	11'	"
"	15+50	11'	"
"	16+00	9'	"
"	16+50	11'	"
"	17+00	15'	"
"	17+50	14'	"
"	18+00	19'	"
"	18+36	13'	GRASS PATH TURNS SEE B A-2
"	19+00	---	NO PATH
"	20+00	---	---
"	21+00	---	---
"	21+11	42'	MACADAM PATH TURNS SEE B A-3
"	21+50	45'	MACADAM PATH
"	22+00	46'	"
"	22+50	45'	"
"	23+00	45'	"
"	23+50	44'	"
"	24+00	33'	"
"	24+37	28'	"
"	24+50	17'	"
"	25+00	11'	"
"	25+50	25'	"
"	25+75	31'	"
"	26+00	24'	"
"	26+50	9'	"
"	27+00	9'	"
"	27+50	8'	"
"	28+00	1'	"
"	28+50	3'	"
"	28+71	11'	"
"	28+81	15'	"
"	29+00	19'	"
"	29+50	27'	"
"	30+00	32'	"
"	30+50	33'	"
"	31+00	31'	"
"	31+50	24'	"
"	32+00	21'	"
"	32+50	31'	"
"	33+00	36'	"
"	33+50	34'	"
"	34+00	22'	"
"	34+50	22'	"
"	35+00	24'	"
"	35+50	34'	"
"	36+00	48'	"
"	36+29	50'	"

PATH STAKEOUT TABLE			
B	STATION	OFFSET (FT)	REMARKS
A-1	38+50	29'	MACADAM PATH
"	38+85	8'	"
"	39+50	9'	"
"	40+00	10'	"
"	40+50	8'	"
"	41+00	12'	"
"	41+50	24'	"
"	42+00	60'	"
"	42+50	48'	"
"	43+00	24'	"
"	43+50	19'	"
"	44+00	23'	"
"	45+00	28'	"
"	46+00	30'	"
"	47+00	26'	"
"	47+50	23'	"
"	48+00	26'	"
"	48+50	37'	"
"	49+00	50'	"
"	49+50	49'	"
"	50+00	44'	"
"	50+50	34'	"
"	50+91	55'	"
"	51+00	19'	"
"	51+50	19'	"
"	52+00	27'	"
"	52+50	46'	"
"	52+94	65'	MAC PATH TEE (SEE B A-4)
"	53+47	12'	"
"	54+00	14'	MACADAM PATH
"	54+32	13'	"
"	54+50	18'	"
"	54+91	32'	"
"	55+50	26'	"
"	56+00	14'	"

B A-1 STAKEOUT TABLE			
FROM POINT	TO POINT	BEARING	DISTANCE
56	52	N 07°-41'-41" E	351.47'
52	47	S 24°-17'-09" E	449.79'
47	46-1	S 45°-34'-43" E	84.43'
46-1	44	S 70°-41'-37" E	247.91'
44	43	S 70°-41'-37" E	166.36'
43	41-1	S 50°-55'-03" E	163.07'
41-1	38-1	N 87°-32'-31" E	252.54'
38-1	36-1	N 87°-32'-31" E	40.00'
36-1	36	N 86°-15'-48" E	147.39'
36	35	S 74°-18'-46" E	302.05'
35	34-1	S 47°-46'-40" E	197.60'
34-1	32-1	DUE EAST	157.62'
32-1	31-1	S 53°-30'-21" E	246.78'
31-1	101-1	N 13°-32'-12" E	439.41'
101-1	100-1	N 65°-59'-68" E	100.00'
100-1	85	N 83°-15'-18" W	587.05'
85	84	S 01°-12'-46" W	165.74'
84	83	N 02°-02'-35" W	201.87'
83	82	N 71°-01'-20" W	60.38'
82	77	N 61°-34'-45" W	32.03'
77	76	N 88°-14'-20" W	318.06'
76	75	N 78°-09'-00" E	296.43'
75	74	---	---
74	73-1	N 39°-57'-34" E	89.99'
73-1	70	N 50°-49'-57" W	252.12'
70	68	N 24°-37'-34" W	139.29'
68	67	N 02°-09'-00" W	213.73'
67	56	N 58°-40'-41" W	181.90'

B A-2 THRU A-6 STAKEOUT TABLE				
SPUR	FROM POINT	TO POINT	BEARING	DISTANCE
A-2	74	46-1	S 39°-57'-34" W	197.46'
A-3	44	76-1	---	---
A-4	38-1	77	N 02°-43'-09" W	260.99'
A-5	36-1	37-1	S 04°-06'-33" E	82.90'
A-6	31-1	31-2	S 53°-30'-21" E	80.00'
A-6	31-2	31-3	N 36°-29'-39" E	100.00'



B B-1 PATH STAKEOUT TABLE			
B	STATION	OFFSET (FT)	REMARKS
B-1	700+00	9'	MACADAM PATH (MEET EX.)
"	701+00	9'	MACADAM PATH
"	701+50	11.5'	"
"	702+00	24'	"
"	+50	17'	"
"	703+00	16'	"
"	+50	17'	"
"	704+00	18'	"
"	+50	23'	"
"	705+00	25'	"
"	+25	23.5'	MACADAM PATH (MEET EX.)

B B-1 SPUR STAKEOUT TABLE			
FROM POINT	TO POINT	BEARING	DISTANCE
25-1	24-1	N 64°-47'-00" W	186.64'
24-1	24-2	N 65°-41'-48" E	258.23'
24-2	24-3	S 85°-41'-10" E	86.62'

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & COMMUNITY DEVELOPMENT ENGINEERING DIVISION  
*Cheryl Hamilton* 10/11/01  
 CHIEF, DIVISION OF LAND DEVELOPMENT  
*Joseph Smith* 10/25/01  
 DIRECTOR



ADDRESS CHART	
AREA	STREET ADDRESS
I	6240 HIDDEN CLEARING COLUMBIA, MD 21045
II	6264 HIDDEN CLEARING COLUMBIA, MD 21045
III	6455 SEWELL ORCHARD DRIVE COLUMBIA, MD 21045

PERMIT INFORMATION CHART			
SUBDIVISION NAME	LOT/PARCEL	ZONE	
SEWELL'S ORCHARD	PARCEL 470, 480A, 485	R-SC	
PLAT NO. BLOCK NO.	SEC./AREA	TAX MAP	ELEC. DIST. CENSUS
	36	6TH	6066.04
WATER CODE	803	SEWER CODE	425000

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
*Joseph Smith* 9/20/01  
 DIRECTOR OF PUBLIC WORKS  
*Cheryl Hamilton* 9/20/01  
 CHIEF - BUREAU OF ENGINEERING

DEPARTMENT OF RECREATION & PARKS  
 HOWARD COUNTY, MARYLAND  
 APPROVED: *Joseph Smith* 9-18-01  
 DIRECTOR DEPARTMENT OF RECREATION & PARKS

P.E.L.A. DESIGN, INC.  
 PLANNERS, ENGINEERS, & LANDSCAPE ARCHITECTS  
 212 WASHINGTON AVENUE, SUITE 100  
 TOWSON, MD 21204  
 TEL: 410-296-5545  
 FAX: 410-296-5547  
 LILING T. TIEN, RLA

DES: T.J.L, LTT	BY	NO.	REVISION	DATE
DRN: SJC				
CHK: T.J.L, LTT				
DATE: 5-03-01				

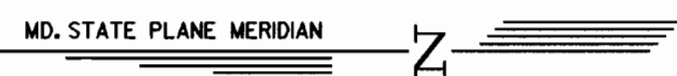
GEOMETRIC LAYOUT PLAN  
 SCALE: 1"=120'

SEWELL'S ORCHARD COMMUNITY PARK  
 SEWELL'S ORCHARD DRIVE, COLUMBIA, MD 21045  
 ELECTION DISTRICT: 6 TAX MAP NO. 36 PARCEL NO. 470, 480 & 485  
 PHASE II  
 Capital Project No.: N-3951 Contract Agreement No.: CA-93-52  
 Purchase Order No.: 19484 PELA Project No.: 9316  
 SCALE AS SHOWN  
 SHEET 19 OF 35



MATCH LINE SEE SHEET 21 OF 35

SCALE: 1" = 40'



**PLANT SCHEDULE:**

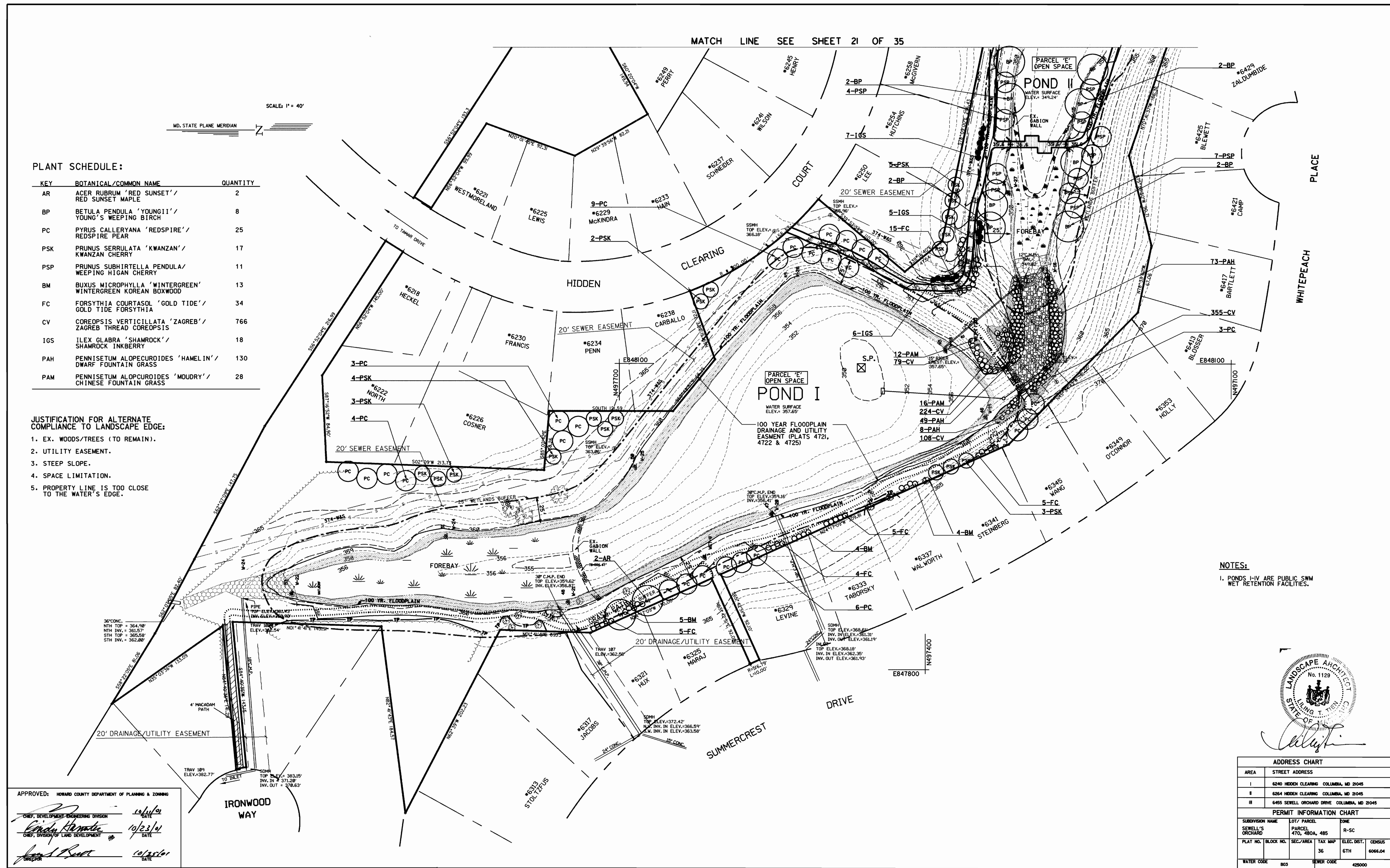
KEY	BOTANICAL / COMMON NAME	QUANTITY
AR	ACER RUBRUM 'RED SUNSET' / RED SUNSET MAPLE	2
BP	BETULA PENDULA 'YOUNGII' / YOUNG'S WEEPING BIRCH	8
PC	PYRUS CALLERYANA 'REDSPIRE' / REDSPIRE PEAR	25
PSK	PRUNUS SERRULATA 'KWANZAN' / KWANZAN CHERRY	17
PSP	PRUNUS SUBHIRTELLA PENDULA / WEEPING HIGAN CHERRY	11
BM	BUXUS MICROPHYLLA 'WINTERGREEN' / WINTERGREEN KOREAN BOXWOOD	13
FC	FORSYTHIA COURTASOL 'GOLD TIDE' / GOLD TIDE FORSYTHIA	34
CV	COREOPSIS VERTICILLATA 'ZAGREB' / ZAGREB THREAD COREOPSIS	766
IGS	ILEX GLABRA 'SHAMROCK' / SHAMROCK INKBERRY	18
PAH	PENNISETUM ALOPECUROIDES 'HADELIN' / DWARF FOUNTAIN GRASS	130
PAM	PENNISETUM ALOPECUROIDES 'MOUDRY' / CHINESE FOUNTAIN GRASS	28

**JUSTIFICATION FOR ALTERNATE COMPLIANCE TO LANDSCAPE EDGE:**

1. EX. WOODS/TREES (TO REMAIN).
2. UTILITY EASEMENT.
3. STEEP SLOPE.
4. SPACE LIMITATION.
5. PROPERTY LINE IS TOO CLOSE TO THE WATER'S EDGE.

**NOTES:**

1. PONDS I-IV ARE PUBLIC SWM WET RETENTION FACILITIES.



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
 DATE: 10/16/01  
 DATE: 10/23/01  
 DATE: 10/25/01



ADDRESS CHART	
AREA	STREET ADDRESS
I	6240 HIDDEN CLEARING COLUMBIA, MD 21045
II	6254 HIDDEN CLEARING COLUMBIA, MD 21045
III	6455 SEWELL ORCHARD DRIVE COLUMBIA, MD 21045

PERMIT INFORMATION CHART					
SUBDIVISION NAME	LOT / PARCEL	ZONE			
SEWELL'S ORCHARD	PARCEL 470, 480A, 485	R-SC			
PLAT NO.	BLOCK NO.	SEC./AREA	TAX MAP	ELEC. DIST.	CENSUS
		36	6TH		6066.04
WATER CODE		SEWER CODE			
803		425000			

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 DATE: 9/26/01  
 DATE: 9/26/01

DEPARTMENT OF RECREATION & PARKS  
 HOWARD COUNTY, MARYLAND  
 APPROVED: DATE: 5-18-01

**P.E.L.A. DESIGN, INC.**  
 PLANNERS, ENGINEERS, & LANDSCAPE ARCHITECTS  
 212 WASHINGTON AVENUE, SUITE 100  
 TOWSON, MD 21204  
 TEL: 410-296-5545  
 FAX: 410-296-5547  
 LILING T. TIEN, RLA

DES:	T.J.L. LTT	BY	NO.	REVISION	DATE
DRN:	SJC				
CHK:	T.J.L. LTT				
DATE:	5-03-01				

**LANDSCAPE PLAN (I)**  
 SCALE: 1"=40'

**SEWELL'S ORCHARD COMMUNITY PARK**  
 SEWELL'S ORCHARD DRIVE, COLUMBIA, MD 21045  
 ELECTION DISTRICT: 6 TAX MAP NO. 36 PARCEL NO. 470, 480 & 485  
**PHASE II**  
 Capital Project No.: N-3951 Contract Agreement No.: CA-93-52  
 Purchase Order No.: 19484 PELA Project No.: 93.16

SCALE AS SHOWN  
 SHEET 20 OF 35



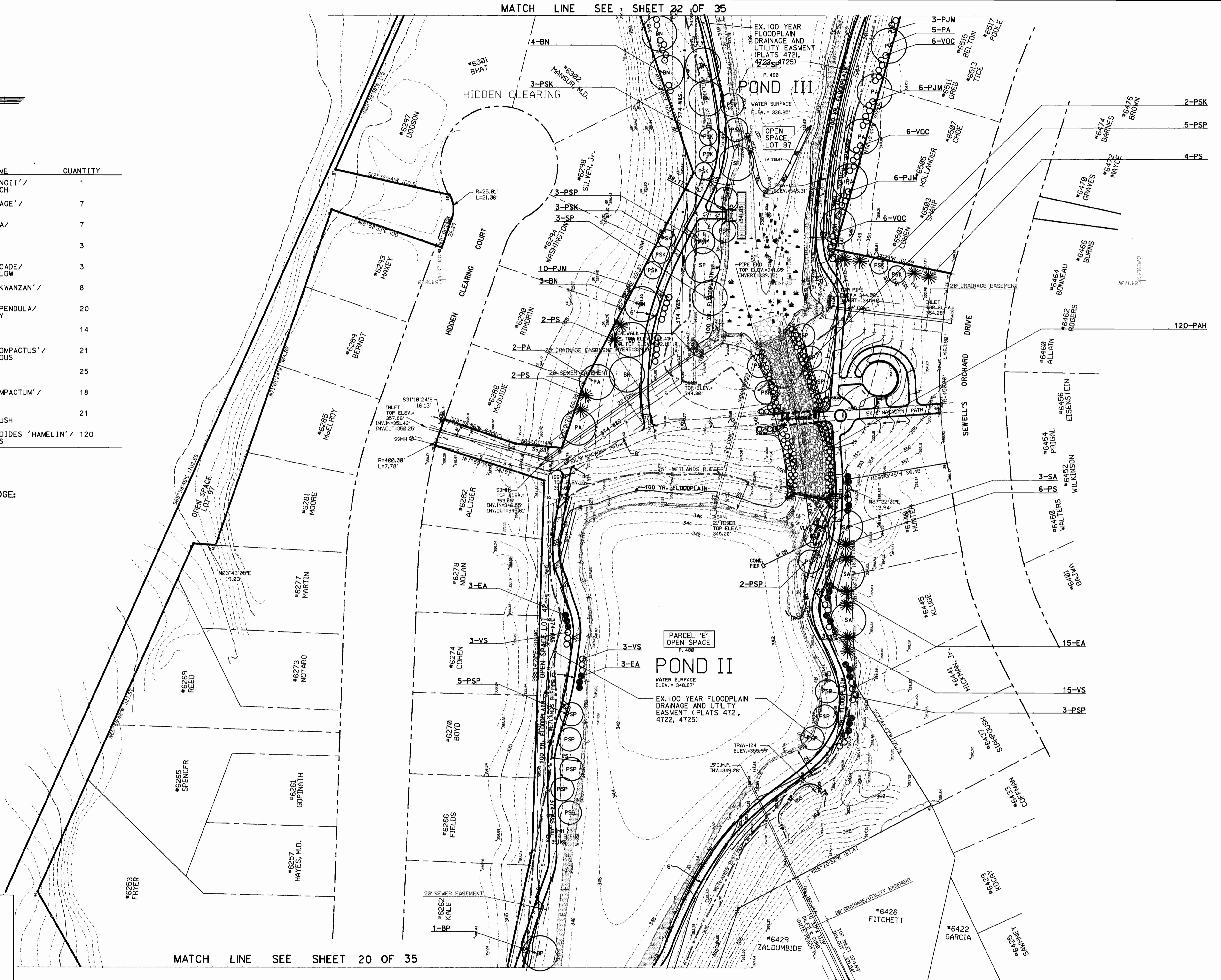


PLANT SCHEDULE:

KEY	BOTANICAL / COMMON NAME	QUANTITY
BP	BETULA PENDULA 'YOUNGII' / YOUNG'S WEeping BIRCH	1
BN	BETULA NIGRA 'HERITAGE' / HERITAGE BIRCH	7
PA	PLANTANUS ACERIFOLIA / LONDON PLANE TREE	7
SA	SASSAFRAS ALBIDUM / SASSAFRAS	3
SP	SALIX X PRAIRIE CASCADE / PRAIRIE CASCADE WILLOW	3
PSK	PRUNUS SERRULATA 'KWANZAN' / KWANZAN CHERRY	8
PSP	PRUNUS SUBHIRTTELLA PENDULA / WEeping HIGAN CHERRY	20
PS	PINUS STROBUS / EASTERN WHITE PINE	14
EA	EUONYMUS ALATUS 'COMPACTUS' / DWARF WINGED EUONYMUS	21
PJM	RHODODENDRON 'PJM' / PJM RHODODENDRON	25
VOC	VIBURNUM OPULUS 'COMPACTUM' / EUROPEAN VIBURNUM	18
VS	VIBURNUM SARGENTII / SARGENT CRANBERRY BUSH	21
PAH	PENNISETUM ALOPECUROIDES 'HAMELIN' / 120 DWARF FOUNTAIN GRASS	

JUSTIFICATION FOR ALTERNATE COMPLIANCE TO LANDSCAPE EDGE:

- UTILITY EASEMENT.
- STEEP SLOPE.
- SPACE LIMITATION.
- SECURITY.



NOTES:  
I. PONDS I-IV ARE PUBLIC SWM WET RETENTION FACILITIES.



ADDRESS CHART			
AREA	STREET ADDRESS	COLUMBIA, MD 21045	
I	6240 HIDDEN CLEARING	COLUMBIA, MD 21045	
II	6264 HIDDEN CLEARING	COLUMBIA, MD 21045	
III	6455 SEWELL ORCHARD DRIVE	COLUMBIA, MD 21045	

PERMIT INFORMATION CHART			
SUBDIVISION NAME	LOT / PARCEL	ZONE	
SEWELL'S ORCHARD	PARCEL 470, 480A, 485	R-SC	
PLAT NO. / BLOCK NO.	SEC./AREA	TAX MAP	ELEC. DIST.
		36	6086.04
WATER CODE	803	SEWER CODE	425000

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
 Chief, Development Engineering Division: 10/11/01  
 Chief, Division of Land Development: 10/26/01  
 Director: 10/26/01

MATCH LINE SEE SHEET 20 OF 35

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 Director of Public Works: 9/18/01  
 Chief - Bureau of Engineering, acting: 9/20/01

DEPARTMENT OF RECREATION & PARKS  
 HOWARD COUNTY, MARYLAND  
 APPROVED: 9-18-01  
 Director, Department of Recreation & Parks

P.E.L.A. DESIGN, INC.  
 PLANNERS, ENGINEERS, & LANDSCAPE ARCHITECTS  
 212 WASHINGTON AVENUE, SUITE 100  
 TOWSON, MD 21204  
 TEL: 410-296-5545  
 FAX: 410-296-5547  
 LILING T. TIEN, RLA

DESIGNED BY	DATE	BY	NO.	REVISION	DATE
T.J.L. LTT	5-03-01				
DRN: SJC					
CHK: T.J.L. LTT					

LANDSCAPE PLAN (2)  
 SCALE: 1"=40'

SEWELL'S ORCHARD COMMUNITY PARK  
 SEWELL'S ORCHARD DRIVE, COLUMBIA, MD 21045  
 ELECTION DISTRICT: 6 TAX MAP NO. 36 PARCEL NO. 470, 480 & 485  
 PHASE II  
 Capital Project No.: N-3951 Contract Agreement No.: CA-93-52  
 Purchase Order No.: 19484 PELA Project No.: 9316

SCALE AS SHOWN  
 SHEET 21 OF 35



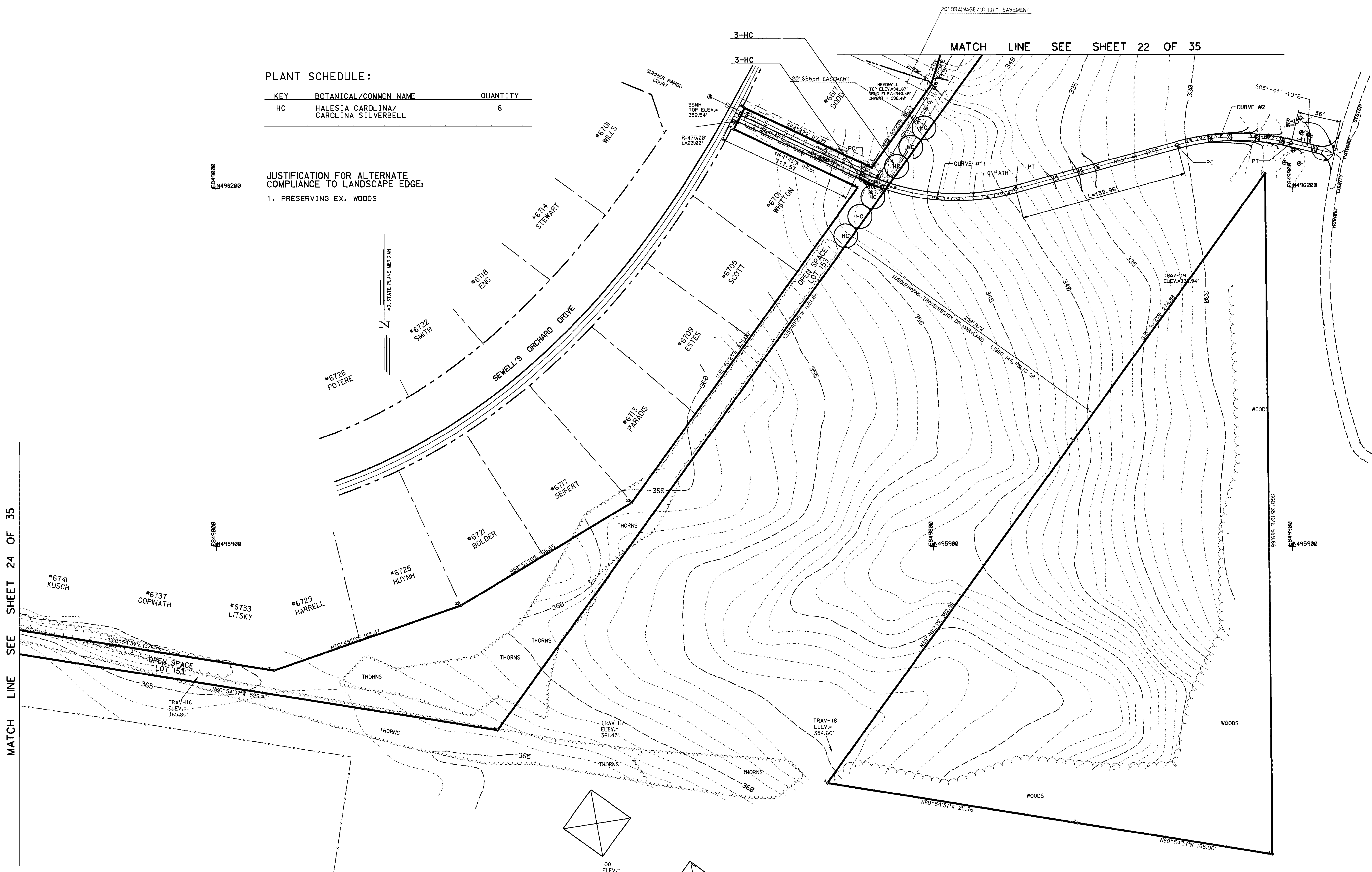




PLANT SCHEDULE:

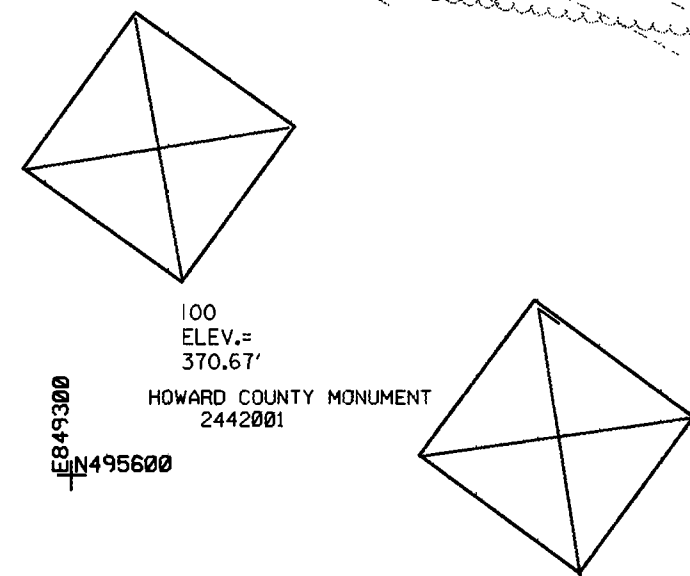
KEY	BOTANICAL / COMMON NAME	QUANTITY
HC	HALESIA CAROLINA/ CAROLINA SILVERBELL	6

JUSTIFICATION FOR ALTERNATE COMPLIANCE TO LANDSCAPE EDGE:  
1. PRESERVING EX. WOODS



MATCH LINE SEE SHEET 24 OF 35

MATCH LINE SEE SHEET 22 OF 35



*Liling T. Tien*

ADDRESS CHART	
AREA	STREET ADDRESS
I	6240 HIDDEN CLEARING COLUMBIA, MD 21045
II	6264 HIDDEN CLEARING COLUMBIA, MD 21045
III	6495 SEWELL ORCHARD DRIVE COLUMBIA, MD 21045

PERMIT INFORMATION CHART				
SUBDIVISION NAME	LOT / PARCEL	ZONE		
SEWELL'S ORCHARD	PARCEL 470, 480A, 485	R-SC		
PLAT NO.	BLOCK NO.	SEC./AREA	TAX MAP	ELEC. DIST.
		36	6TH	6066.04
WATER CODE	SEWER CODE			
B03	425000			

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

*[Signature]* 10/11/01  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE  
*[Signature]* 10/23/01  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE  
*[Signature]* 10/25/01  
 DIRECTOR DATE

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*[Signature]* 9/20/01  
 DIRECTOR OF PUBLIC WORKS DATE  
*[Signature]* 9/20/01  
 CHIEF - BUREAU OF ENGINEERING DATE

DEPARTMENT OF RECREATION & PARKS  
HOWARD COUNTY, MARYLAND

APPROVED:  
*[Signature]* 9-18-01  
 DIRECTOR, DEPARTMENT OF RECREATION & PARKS DATE

**P.E.L.A. DESIGN, INC.**  
 PLANNERS, ENGINEERS, & LANDSCAPE ARCHITECTS  
 212 WASHINGTON AVENUE, SUITE 100  
 TOWSON, MD 21204  
 TEL: 410-296-5545  
 FAX: 410-296-5547  
 LILING T. TIEN, RLA

DES: T.J., LTT				
DRN: SJC				
CHK: T.J., LTT				
DATE: 5-03-01	BY	NO.	REVISION	DATE

**LANDSCAPE PLAN (4)**

SCALE: 1"=40'

**SEWELL'S ORCHARD COMMUNITY PARK**  
 SEWELL'S ORCHARD DRIVE, COLUMBIA, MD 21045  
 ELECTION DISTRICT: 6 TAX MAP NO. 36 PARCEL NO. 470, 480 & 485

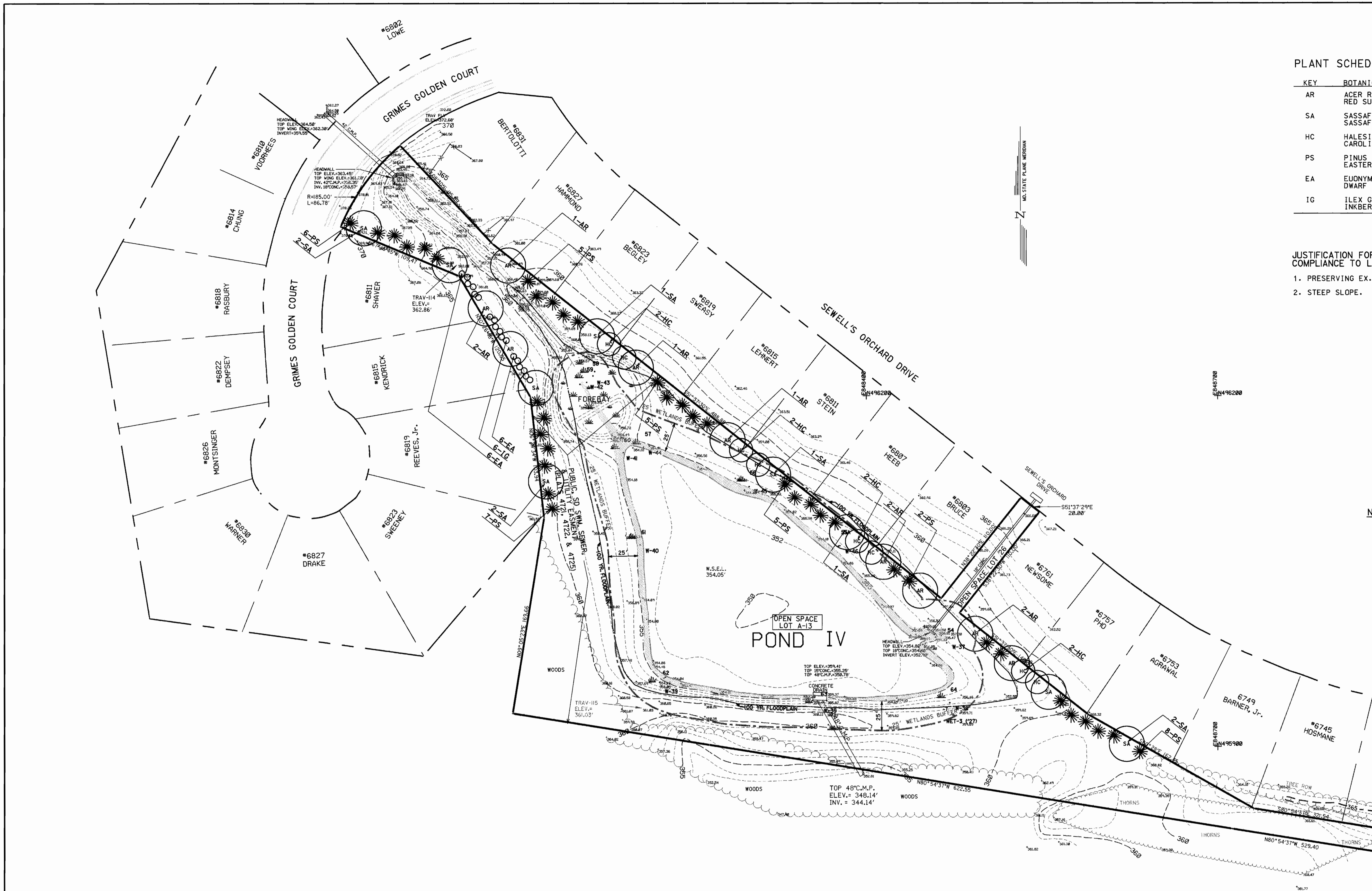
PHASE II

Capital Project No.: N-3951 Contract Agreement No.: CA-93-52  
 Purchase Order No.: 19484 PELA Project No.: 93.16

SCALE AS SHOWN

SHEET 23 OF 35





**PLANT SCHEDULE:**

KEY	BOTANICAL / COMMON NAME	QUANTITY
AR	ACER RUBRUM 'RED SUNSET' / RED SUNSET MAPLE	9
SA	SASSAFRAS ALBIDUM / SASSAFRAS	9
HC	HALESIA CAROLINA / CAROLINA SILVERBELL	8
PS	PINUS STROBUS / EASTERN WHITE PINE	38
EA	EUONYMUS ALTUS 'COMPACTUS' / DWARF WINGED EUONYMUS	12
IG	ILEX GLABRA 'COMPACTA' / INKBERRY HOLLY	6

**JUSTIFICATION FOR ALTERNATE COMPLIANCE TO LANDSCAPE EDGE:**

1. PRESERVING EX. VEGETATION.
2. STEEP SLOPE.

**NOTES:**

1. PONDS I-IV ARE PUBLIC SWM WET RETENTION FACILITIES.

MATCH LINE SEE SHEET 23 OF 35



ADDRESS CHART	
AREA	STREET ADDRESS
I	6240 HIDDEN CLEARING COLUMBIA, MD 21045
II	6264 HIDDEN CLEARING COLUMBIA, MD 21045
III	6455 SEWELL ORCHARD DRIVE COLUMBIA, MD 21045

PERMIT INFORMATION CHART			
SUBDIVISION NAME	LOT / PARCEL	ZONE	
SEWELL'S ORCHARD	PARCEL 470, 480A, 485	R-SC	
PLAT NO.	BLOCK NO.	SEC./AREA	TAX MAP
	4/1	36	
ELEC. DIST.	CENSUS		
	6066.04		
WATER CODE	SEWER CODE	803	429000

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION  
 DATE: 10/23/01

DIRECTOR OF PUBLIC WORKS  
 DATE: 10/23/01

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS  
 DATE: 9/18/01

CHIEF - BUREAU OF ENGINEERING, acting  
 DATE: 9/20/01

DEPARTMENT OF RECREATION & PARKS  
HOWARD COUNTY, MARYLAND

APPROVED:

DIRECTOR, DEPARTMENT OF RECREATION & PARKS  
 DATE: 9-18-01

**P.E.L.A. DESIGN, INC.**  
PLANNERS, ENGINEERS, & LANDSCAPE ARCHITECTS  
212 WASHINGTON AVENUE, SUITE 100  
TOWSON, MD 21204  
TEL: 410-296-5545  
FAX: 410-296-5547  
LILING T. TIEN, RLA

DES: T.J.L, LTT  
DRN: SJC  
CHK: T.J.L, LTT  
DATE: 5-03-01

BY	NO.	REVISION	DATE

**LANDSCAPE PLAN (5)**

SCALE: 1"=40'

**SEWELL'S ORCHARD COMMUNITY PARK**  
SEWELL'S ORCHARD DRIVE, COLUMBIA, MD 21045  
ELECTION DISTRICT: 6 TAX MAP NO. 36 PARCEL NO. 470, 480 & 485

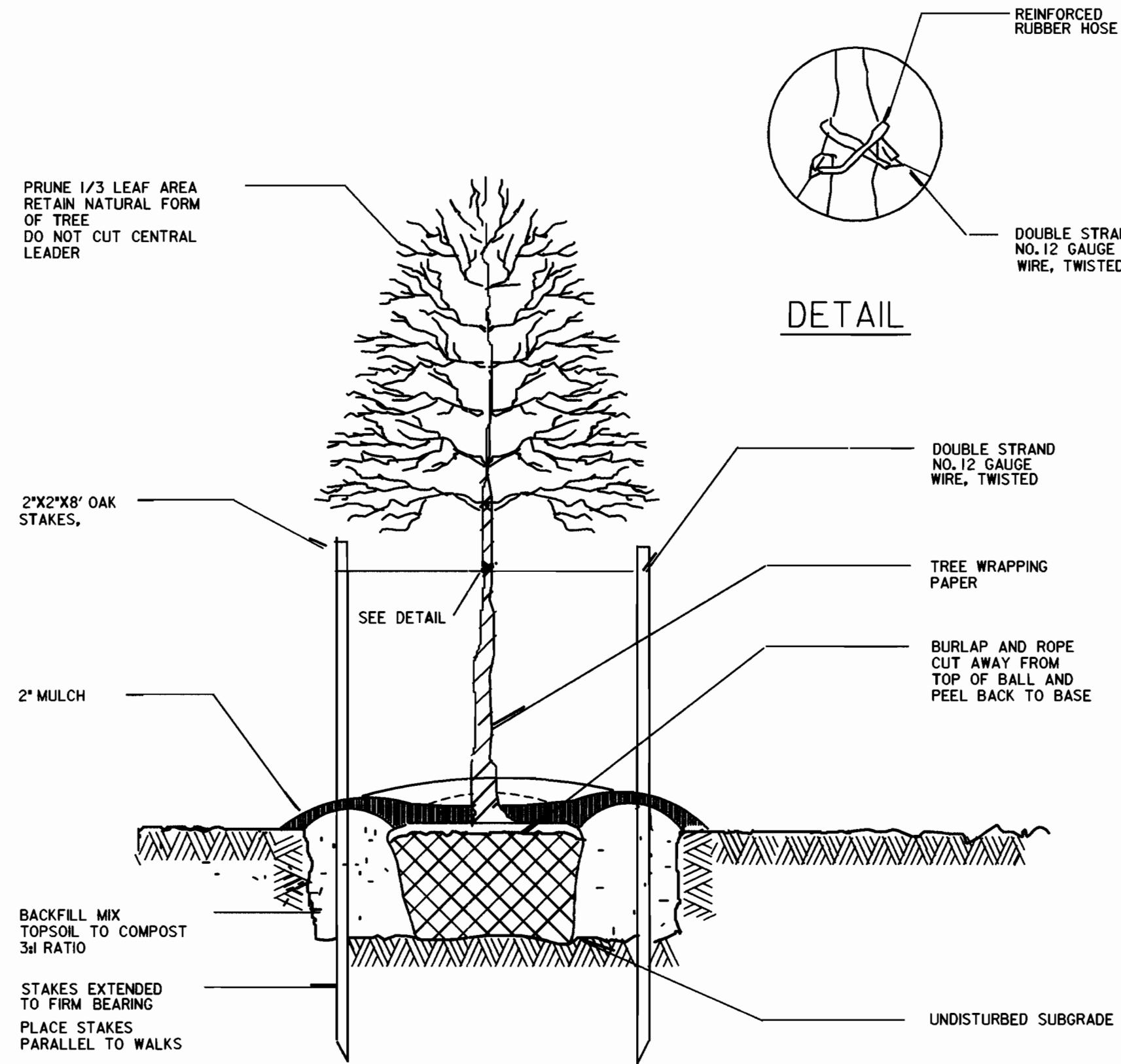
**PHASE II**

Capital Project No.: N-3951 Contract Agreement No.: CA-93-52  
Purchase Order No.: 19484 PELA Project No.: 9316

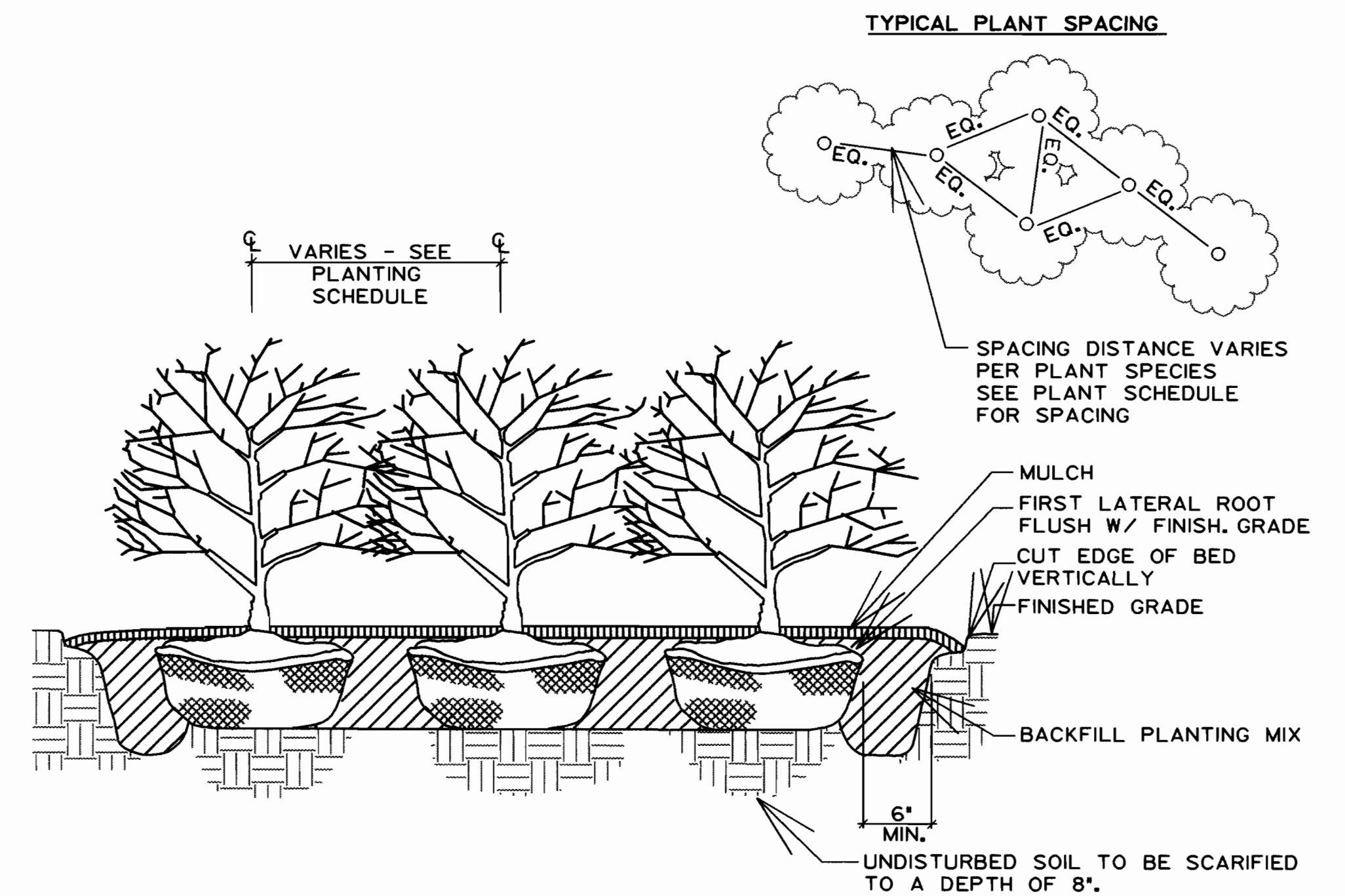
SCALE AS SHOWN  
SHEET 24 OF 35



SYMBOL	BOTANICAL/COMMON NAMES	QUANTITY	SIZE	ROOT	SPACING	REMARKS
<b>MAJOR DECIDUOUS TREES</b>						
AR	ACER RUBRUM 'RED SUNSET'/ RED SUNSET MAPLES	17	2"-2 1/2" CAL.	B & B	SEE PLAN	
BN	BETULA NIGRA 'HERITAGE'/ HERITAGE BIRCH	7	2"-2 1/2" CAL.	B & B	SEE PLAN	
BP	BETULA PENDULA 'YOUNG II' YOUNG'S WEeping BIRCH	9	2"-2 1/2" CAL.	B & B	SEE PLAN	
PA	PLANTANUS ACERIFOLIA/ LONDON PLANE TREE	13	2"-2 1/2" CAL.	B & B	SEE PLAN	
SA	SASSAFRAS ALBISUM/ AMERICAN MOUNTAIN ASH	20	2"-2 1/2" CAL.	B & B	SEE PLAN	
SP	SALIX x PRAIRIE CASCADE/ PRAIRIE CASCADE WILLOW	3	NO. 10	CONT.	SEE PLAN	
<b>MINOR DECIDUOUS TREES</b>						
HC	HALESIA CAROLINA/ CAROLINA SILVERBELL	17	4' HT.	B & B	20' O.C.	
MZC	MALLUS ZUM 'CALOCARPA'/ REDBUD CRABAPPLE	4	5' HT.	B & B	15' O.C.	
PC	PYRUS CALLERYANA 'REDSPIRE' REDSPIRE PEAR	34	5' HT.	B & B	20' O.C.	
PSK	PRUNUS SERRULATA 'KWANZAN'/ KWANZAN CHERRY	27	5' HT.	B & B	15' O.C.	
PSP	PRUNUS SUBHIRTELLA PENDUL/ WEeping HIGAN CHERRY	31	5' HT.	B & B	20' O.C.	
<b>EVERGREEN TREES</b>						
PS	PINUS STROBUS/ EASTERN WHITE PINE	64	5' HT.	B & B	15' O.C.	
<b>SHRUBS</b>						
BM	BUXUS MICROPHYLLA 'WINTERGREEN'/ WINTERGREEN KOREAN BOXWOOD	13	18"	CONT.	5' O.C.	
EA	EUONYMUS ALATUS 'COMPACTUS'/ DWARF WINGED EUONYMUS	33	18"	CONT.	5' O.C.	
EF	EUONYMUS FORTUNE 'GOLDEN PRINCE'/ GOLD PRINCE EUONYMUS	24	18"	CONT.	5' O.C.	
FC	FORSYTHIA x COURTASOL 'GOLDEN TIDE'/ GOLDTIDE FORSYTHIA	34	18"	CONT.	5' O.C.	
IG	ILEX GLABRA 'COMPACTA'/ INKBERRY HOLLY	21	18"	CONT.	5' O.C.	
IGS	ILEX GLABRA 'SHAMROCK'/ SHAMROCK INKBERRY	18	"2	CONT.	5' O.C.	
PJM	RHODODENDRON 'PJM'/ PJM RHODODENDRUM	64	18"	CONT.	5' O.C.	
VOC	VIBURNUM OPULIS 'COMPACTUM'/ EUROPEAN VIBURNUM	27	18"	CONT.	5' O.C.	
VS	VIBURNUM SARGENTI/ SARGENT CRANBERRY BUSH	21	18"	CONT.	5' O.C.	
<b>GRASS/PERENNIAL/GROUNDCOVER</b>						
CV	COREOPSIS VERTICILLATA 'ZEGREB'/ ZEGREB THREAD COREOPSIS	766	"5	CONT.	18" O.C.	
LM	LORIEPE MASCARI/ LILY TURF	873	4" POT	CONT.	1' O.C.	
PAH	PENNISETUM ALOPECUROIDES 'HAMELIN'/ DWARF FOUNTAIN GRASS	250	18"	CONT.	4' O.C.	
PAM	PENNISETUM ALOPECUROIDES 'MOUDRY'/ CHINESE FOUNTAIN GRASS	28	18"	CONT.	5' O.C.	
RHB	RUDEBECKIA HIRTA 'BECKY'	160	4" POT	CONT.	1' O.C.	

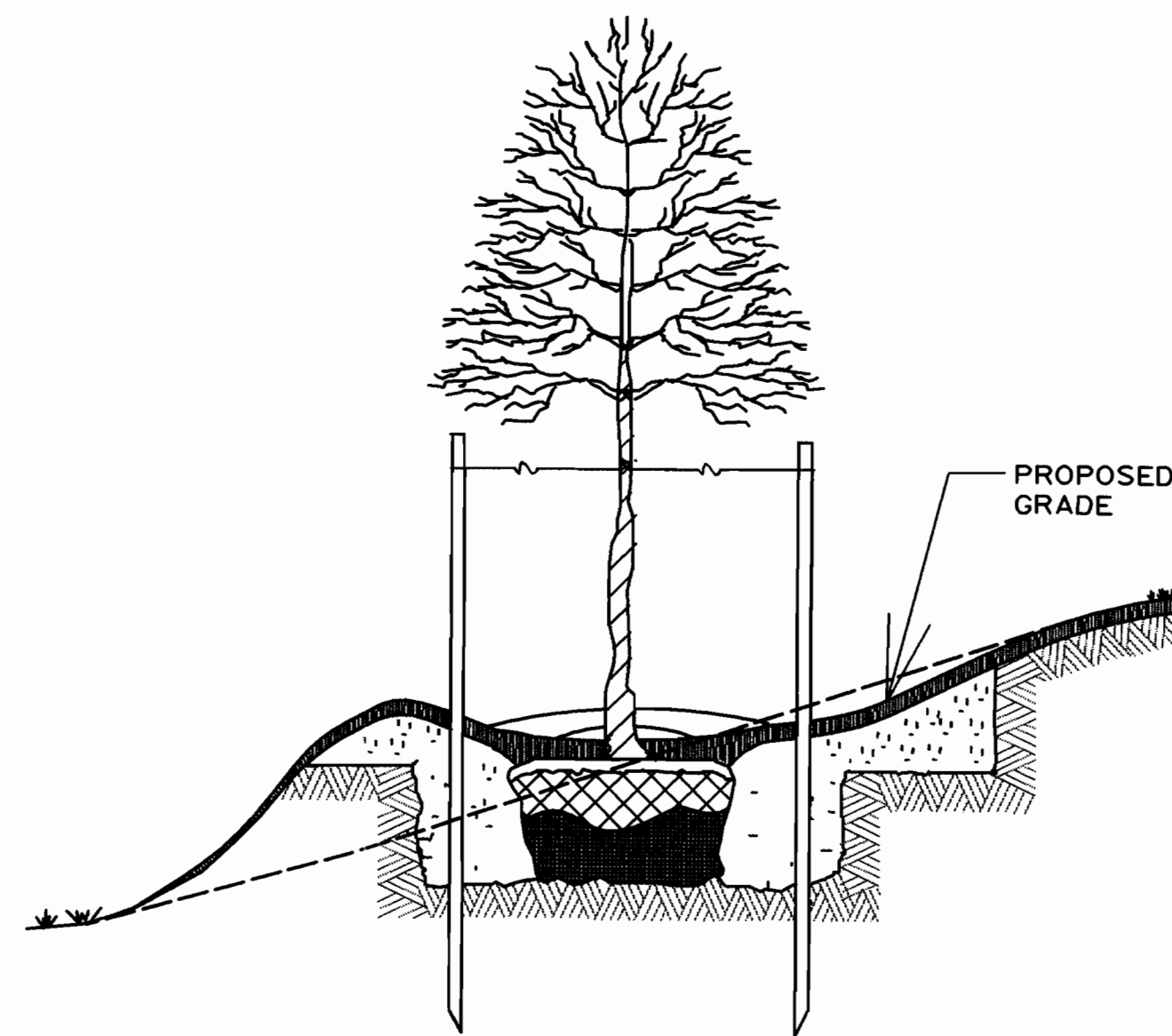


**TREE PLANTING DETAIL**  
NOT TO SCALE

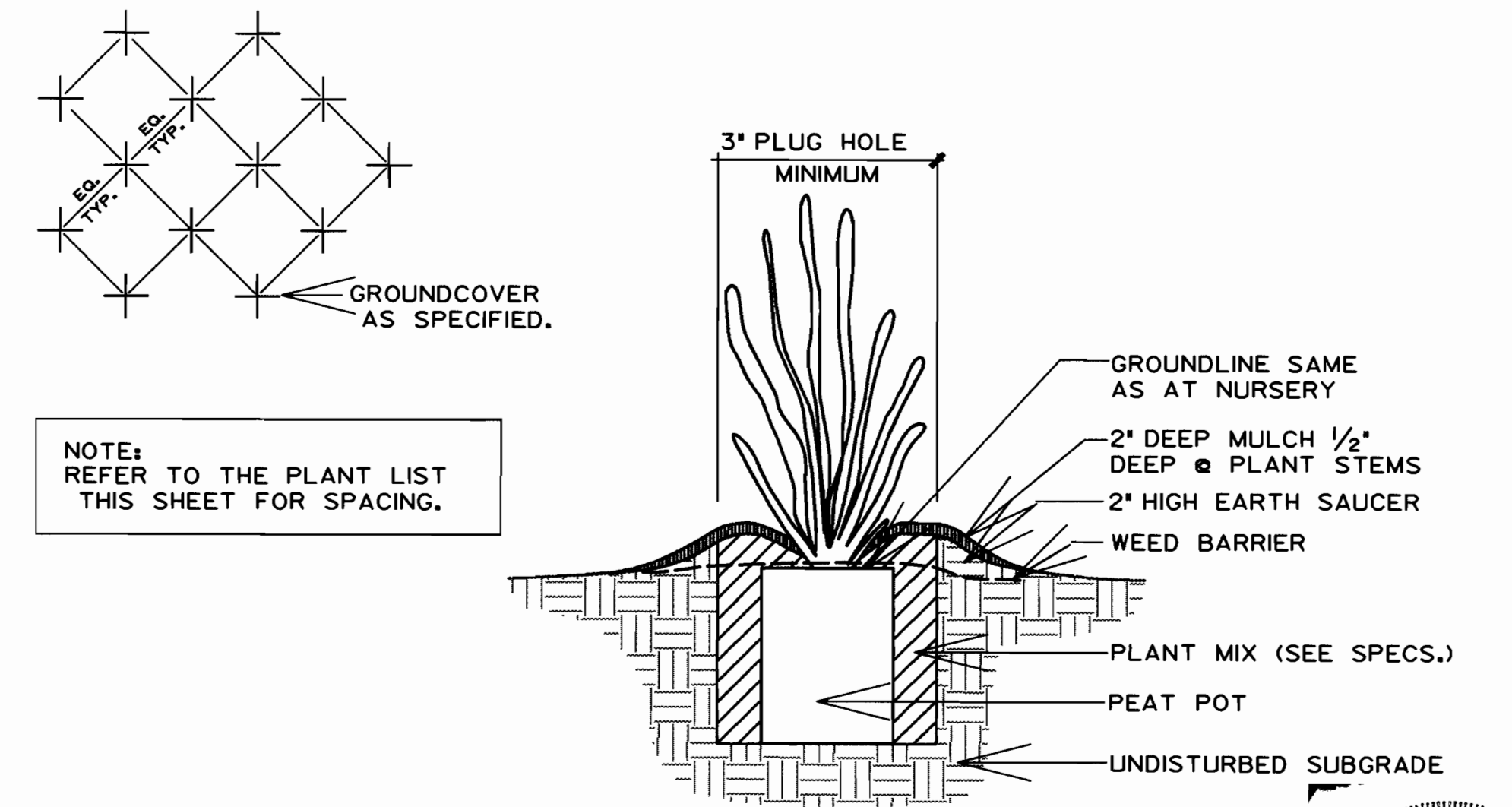


NOTES:  
1. CUT AND REMOVE BURLAP FROM TOP 1/3 OF ROOTBALL.  
2. REMOVE ALL NON-BIODEGRADABLE CONTAINERS AND SCARIFY ROOTBALL.

**TYPICAL SHRUB MASS PLANTING**  
N.T.S.



**TREE PLANTING DETAIL**  
- AT SLOPED CONDITIONS  
N.T.S.



NOTE: ENTIRE PEAT POT TO BE PLANTED INTACT.  
NON-PEAT POT CONTAINERS TO BE REMOVED PRIOR TO PLANTING.

**GROUND COVER PLANTING DETAIL**  
N.T.S.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION  
 DATE: 10/11/01  
  
 CHIEF, DIVISION OF LAND DEVELOPMENT  
 DATE: 10/23/01  
  
 DIRECTOR  
 DATE: 10/25/01

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
  
 DIRECTOR OF PUBLIC WORKS  
 DATE: 9/20/01  
  
 CHIEF - BUREAU OF ENGINEERING  
 DATE: 9/20/01

DEPARTMENT OF RECREATION & PARKS  
 HOWARD COUNTY, MARYLAND  
 APPROVED:  
  
 DIRECTOR, DEPARTMENT OF RECREATION & PARKS  
 DATE: 9-18-01

**P.E.L.A. DESIGN, INC.**  
 PLANNERS, ENGINEERS, & LANDSCAPE ARCHITECTS  
 212 WASHINGTON AVE., SUITE 100  
 TOWSON, MD 21204  
 TEL: 410-296-5545  
 FAX: 410-296-5547

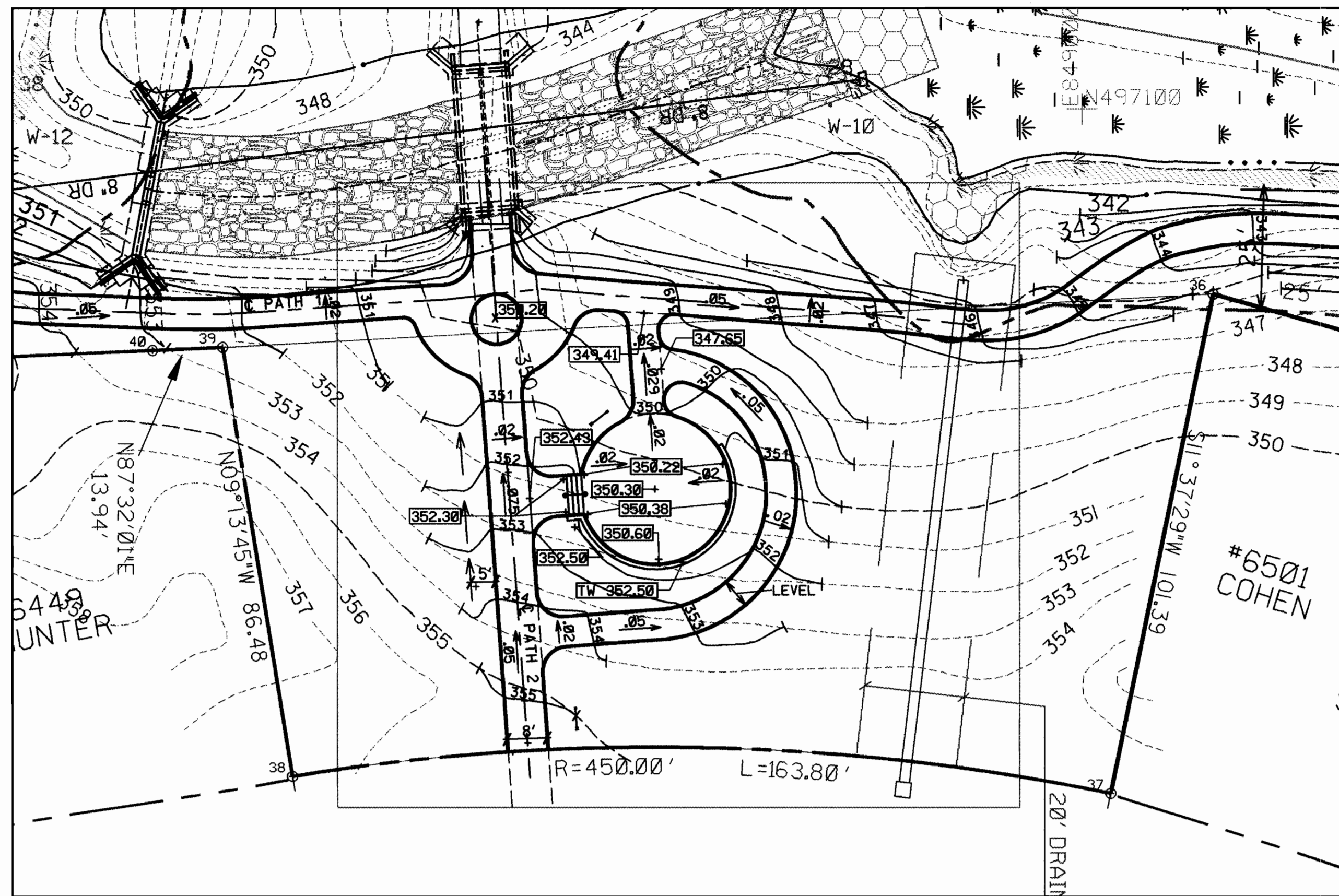
DES:	LTT, T.J.L.				
DRN:	SJC				
CHK:	LTT				
DATE:	11-30-00	BY:	NO.	REVISION	DATE

**PLANTING DETAILS & PLANT SCHEDULE**

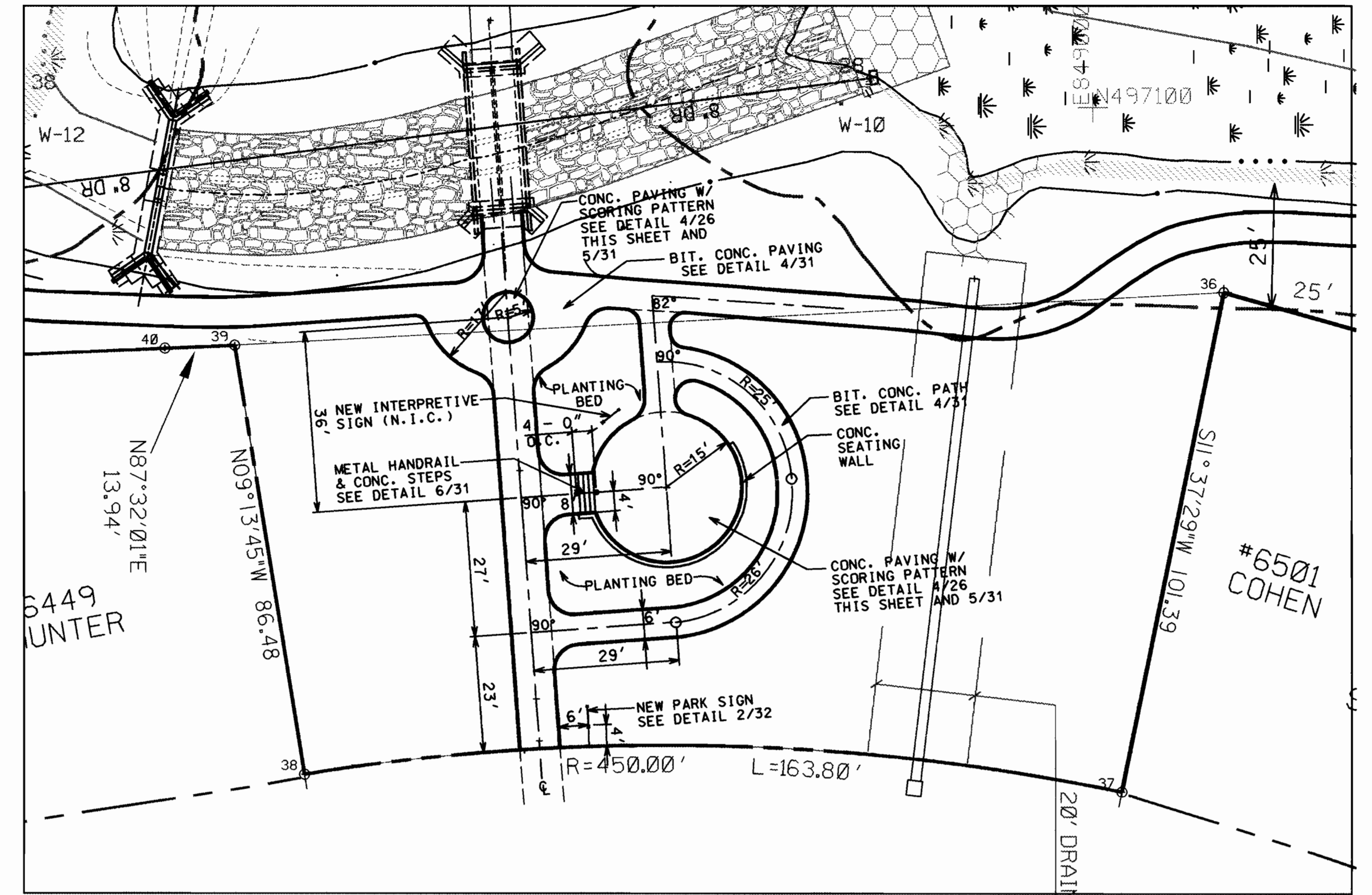
**SEWELL'S ORCHARD COMMUNITY PARK**  
 SEWELL'S ORCHARD DRIVE, COLUMBIA, MD 21045  
 ELECTION DISTRICT: 6 TAX MAP NO. 36 PARCEL NO. 470, 480 & 485  
**PHASE II**  
 Capital Project No.: N-3951 Contract Agreement No.: CA-93-52  
 Purchase Order No.: 19484 PELA Project No.: 93.16

SCALE AS SHOWN  
 SHEET 25 OF 35

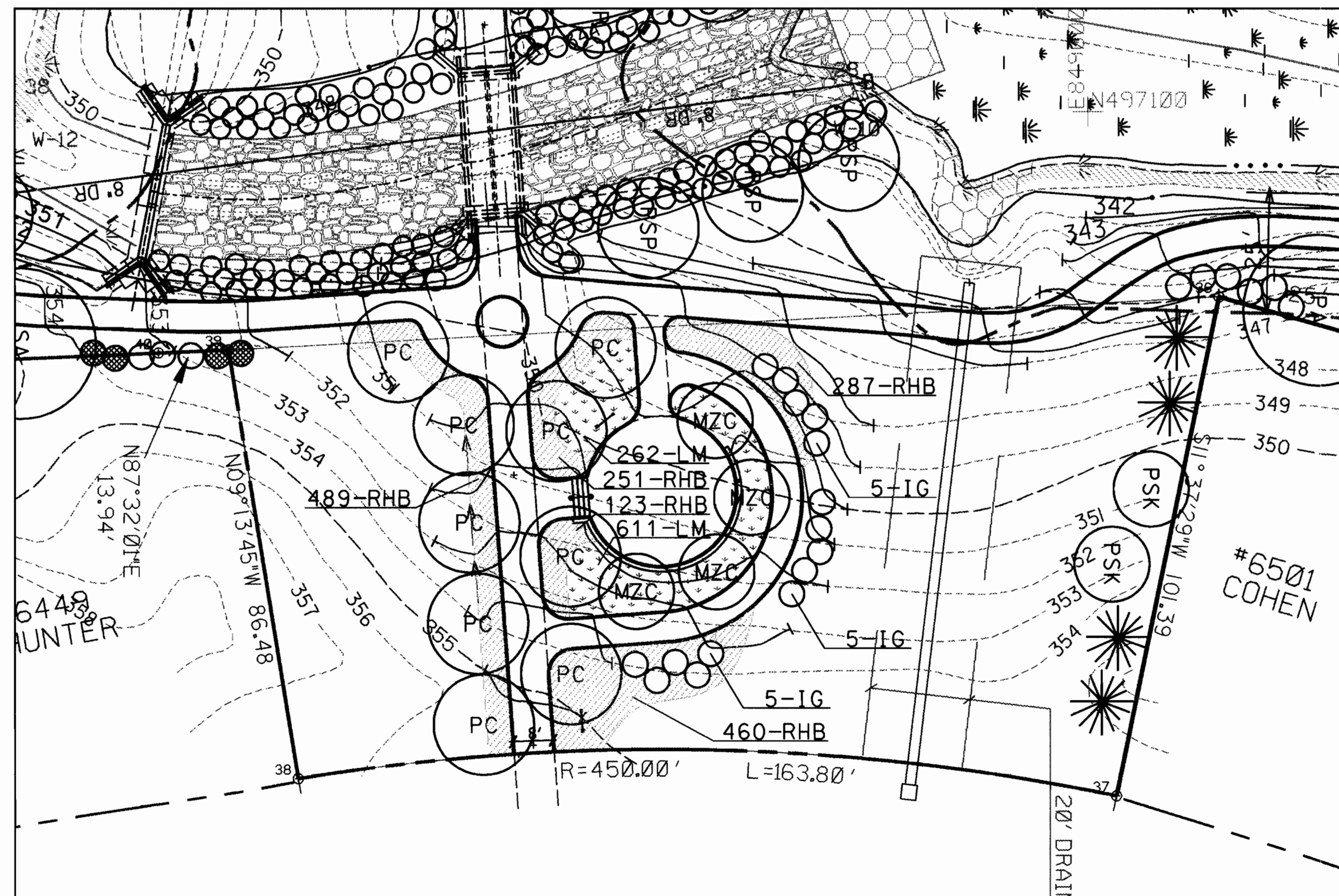




1 GRADING PLAN  
SCALE: 1"=20'



2 LAYOUT PLAN  
SCALE: 1"=20'



3 LANDSCAPE PLAN  
SCALE: 1"=20'

PLANT SCHEDULE (FOR ENTRANCE AREA ONLY)

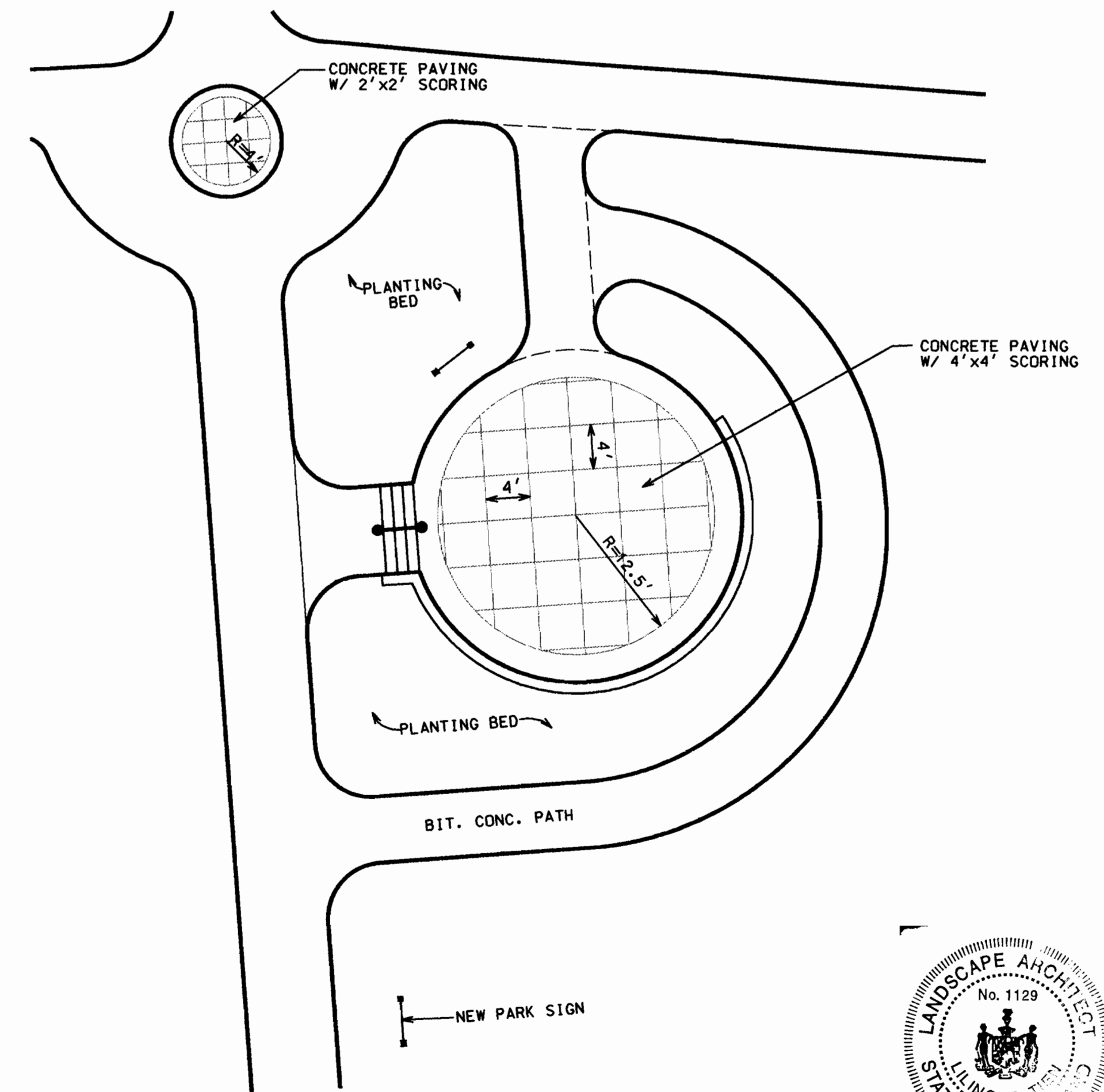
SYMBOL	KEY	BOTANICAL / COMMON NAME	QUAN.
○	MZC	MALUS ZUMI 'CALCARPA' / REDBUD CRABAPPLE	4
○	PC	PYRUS CALLERYANA 'REDSPIRE' / REDSPIRE	9
○	IG	ILEX GLABRA 'COMPACTA' / INKBERRY HOLLY	15
□	LM	LORIEPE MASCARI / LILYTURF	873
□	RHB	RUDBECKIA HIRTA 'BECKY'	1546

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

\_\_\_\_\_ DATE 10/10/10  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

\_\_\_\_\_ DATE 10/28/10  
 CHIEF, DIVISION OF LAND DEVELOPMENT

\_\_\_\_\_ DATE 10/28/10  
 DIRECTOR



4 SCORING PATTERN DETAIL  
SCALE: 1"=10'



DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

\_\_\_\_\_ DATE 9/20/10  
 DIRECTOR OF PUBLIC WORKS

\_\_\_\_\_ DATE 9/20/10  
 CHIEF - BUREAU OF ENGINEERING, acting

DEPARTMENT OF RECREATION & PARKS  
HOWARD COUNTY, MARYLAND

\_\_\_\_\_ DATE 7/18/10  
 APPROVED: DIRECTOR, DEPARTMENT OF RECREATION & PARKS

**P.E.L.A. DESIGN, INC.**  
PLANNERS, ENGINEERS, & LANDSCAPE ARCHITECTS

212 WASHINGTON AVE., SUITE 100  
TOWSON, MD 21204

TEL: 410-296-5545  
FAX: 410-296-5547

LILING T. TIEN, R.L.A.

DES: T.J.L, LTT	BY	NO.	REVISION	DATE
DRN: SJC				
CHK: T.J.L, LTT				
DATE: 11-30-00				

ENTRANCE PLAZA DETAILS  
SCALE: AS SHOWN

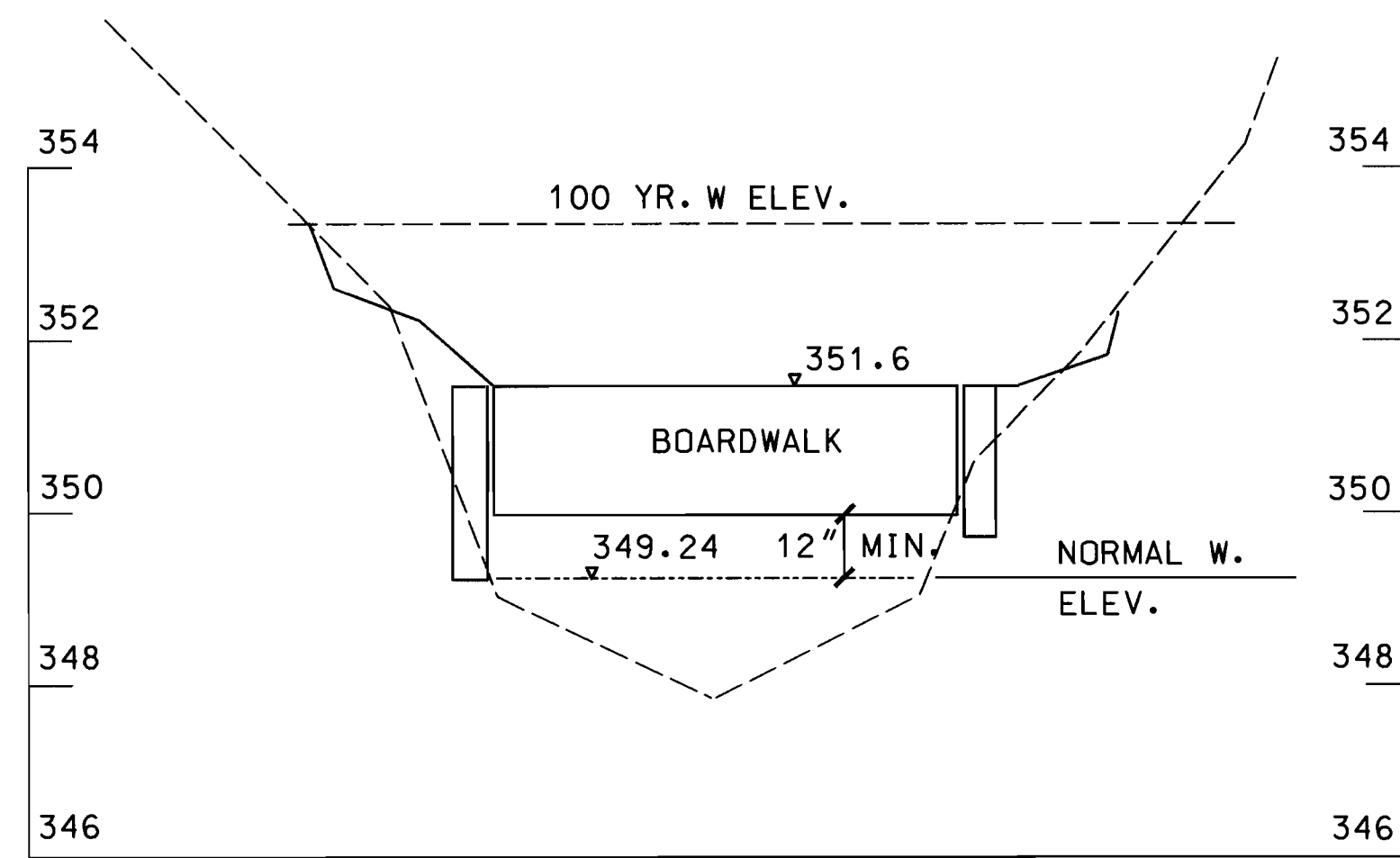
**SEWELL'S ORCHARD COMMUNITY PARK**  
SEWELL'S ORCHARD DRIVE, COLUMBIA, MD 21045  
ELECTION DISTRICT: 6 TAX MAP NO. 36 PARCEL NO. 470, 480 & 485

**PHASE II**

Capital Project No.: N-395I Contract Agreement No.: CA-93-52  
Purchase Order No.: 19484 PELA Project No.: 9316

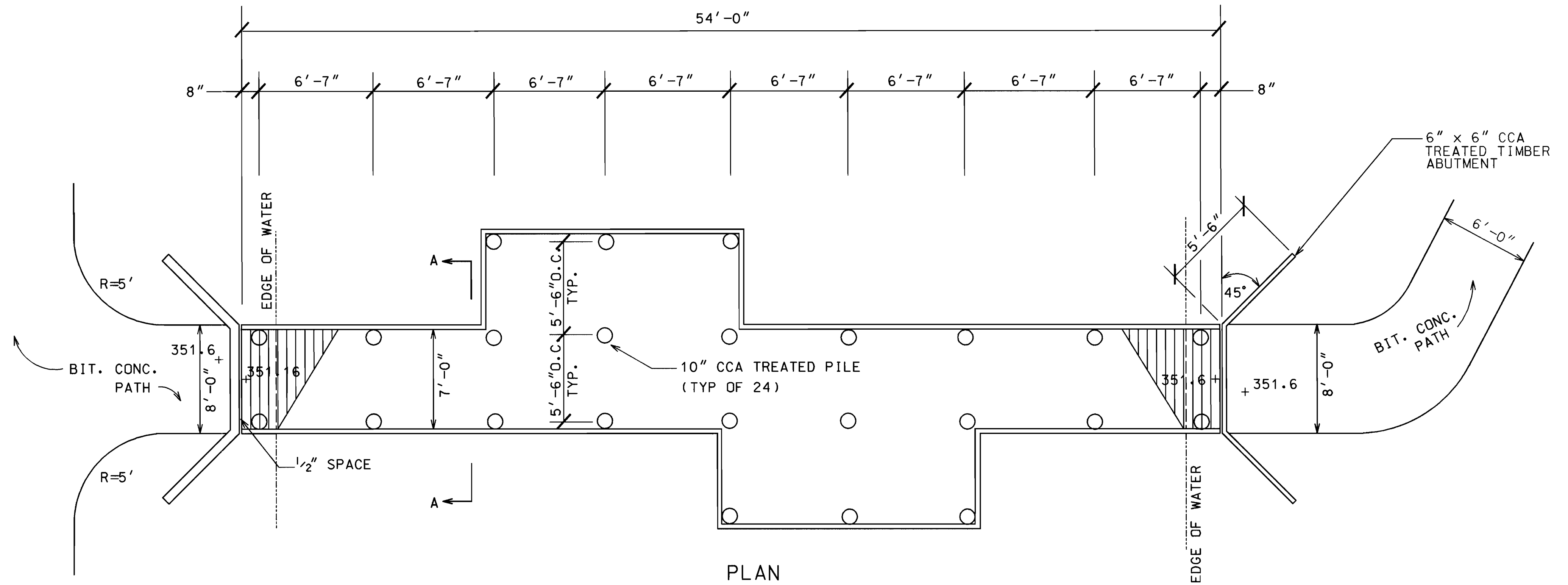
SCALE AS SHOWN  
SHEET 26 OF 35





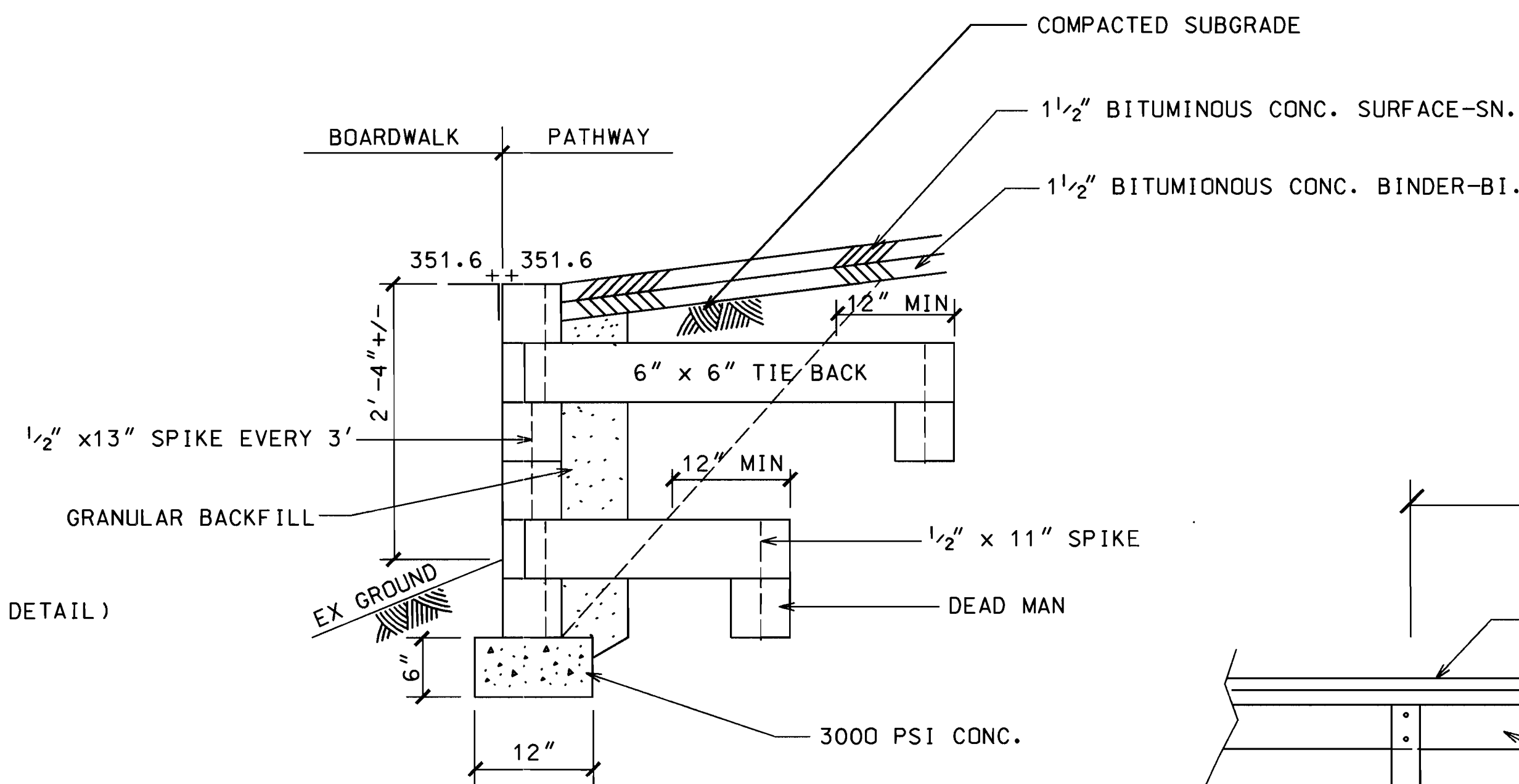
PROFILE: BOARDWALK OVER POND #2

SCALE: HORZ. 1" = 20'  
 VERT. 1" = 2'



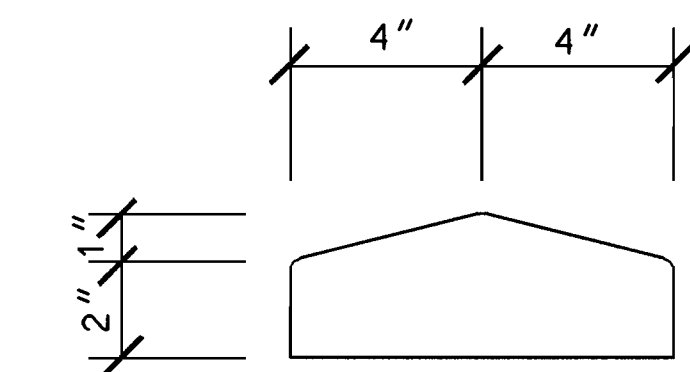
PLAN

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



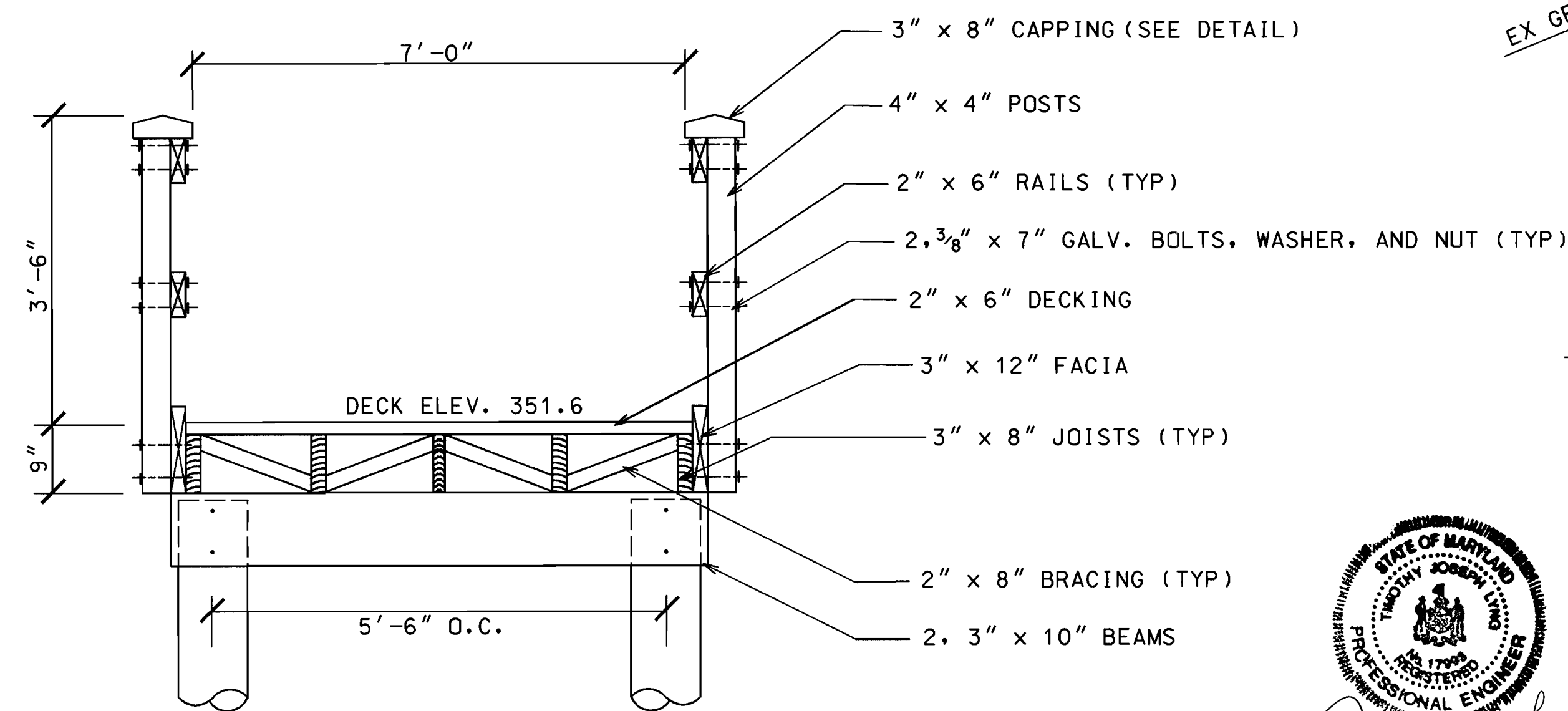
SECTION-TIMBER ABUTMENT

SCALE: 1" = 1'-0"



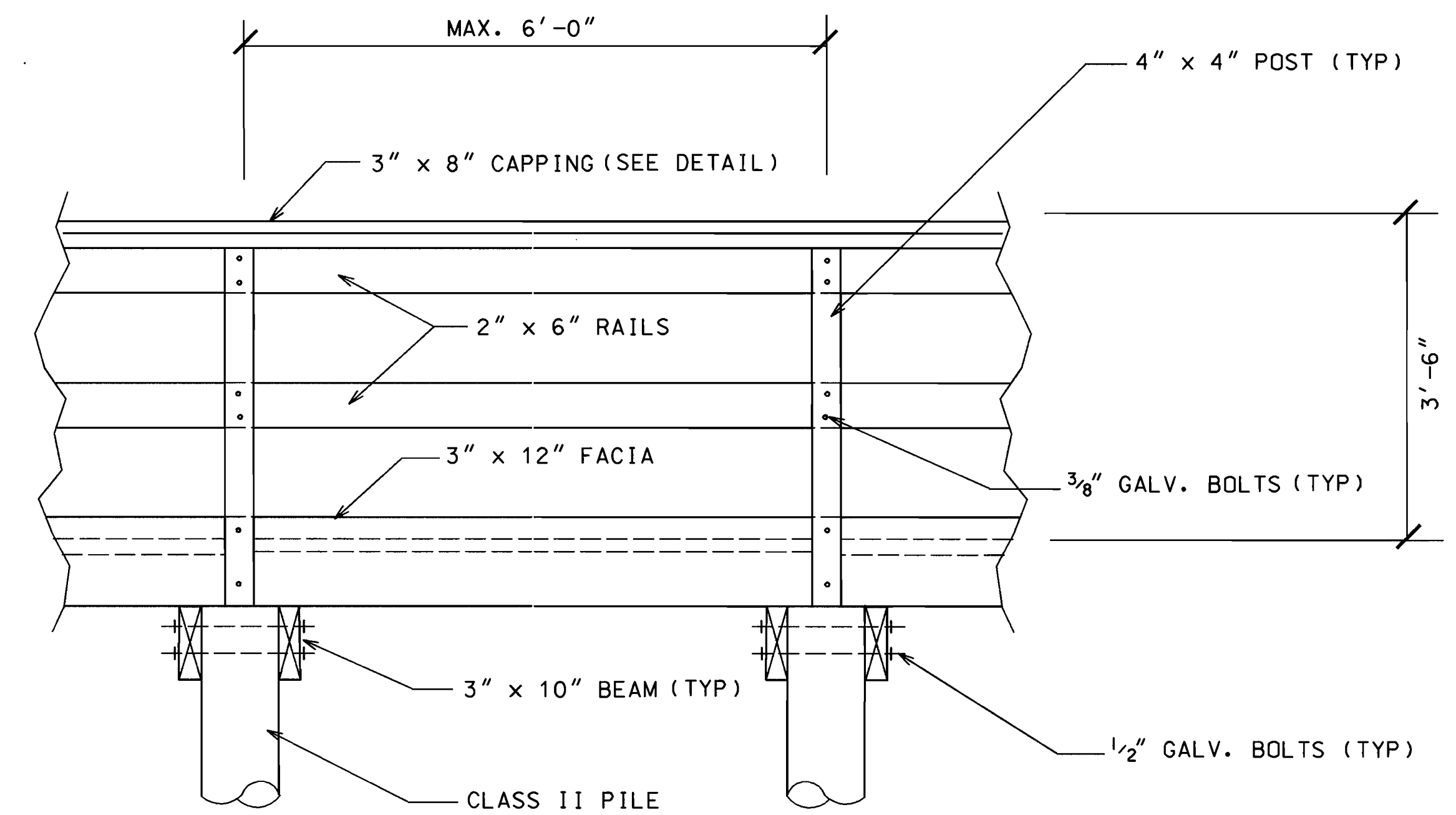
CAPPING DETAIL

SCALE: 3" = 1'



SECTION A-A

N. T. S.



PART ELEVATION OF BALUSTRADE

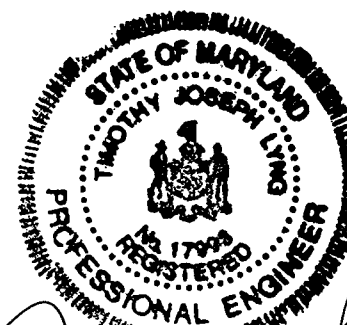
SCALE: 3/4" = 1'

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION 10/10/01 DATE

Christa Hendrix 10/23/01 DATE  
 CHIEF, DIVISION OF LAND DEVELOPMENT #

James P. Smith 10/25/01 DATE  
 DIRECTOR



Jonathan J. Lynn

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

9/20/01 DATE  
 9/20/01 DATE  
 CHIEF - BUREAU OF ENGINEERING, acting

DEPARTMENT OF RECREATION & PARKS  
 HOWARD COUNTY, MARYLAND

APPROVED: 9-18-01 DATE  
 DIRECTOR, DEPARTMENT OF RECREATION & PARKS

P.E.L.A. DESIGN, INC.  
 PLANNERS, ENGINEERS, & LANDSCAPE ARCHITECTS

212 WASHINGTON AVENUE, SUITE 100  
 BALTIMORE, MD, 21204  
 TEL: 410-296-5545  
 FAX: 410-296-5547

DES: PM, TL				
DRN: RCJ				
CHK: TL				
DATE: 11-30-00	BY	NO.	REVISION	DATE

POND II BOARDWALK  
 DETAILS

SEWELL'S ORCHARD COMMUNITY PARK

SEWELL'S ORCHARD DRIVE, COLUMBIA, MD 21045  
 ELECTION DISTRICT: 6 TAX MAP NO. 36 PARCEL NO. 470, 480 & 485

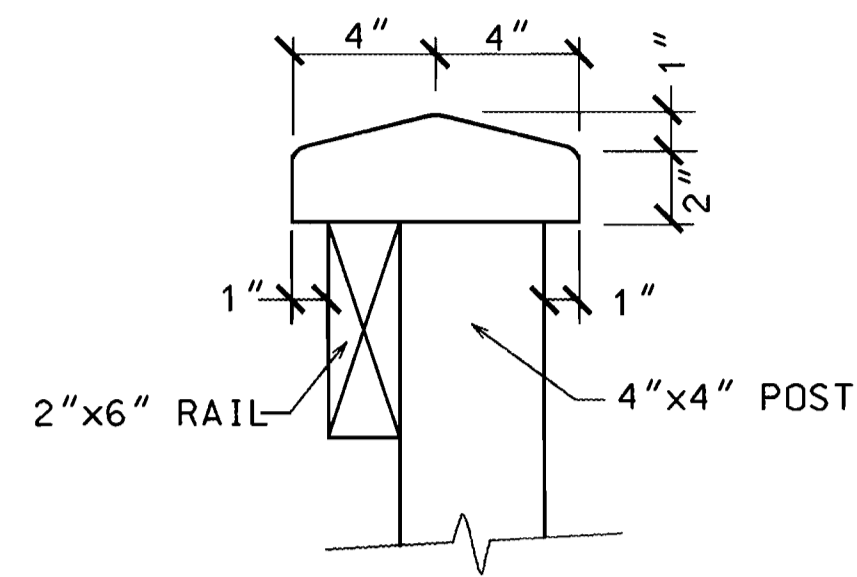
PHASE II

Capital Project No. N-3951 Contract Agreement No. CA-93-52  
 Purchase Order No. 19484 PELA Project No. 93.16

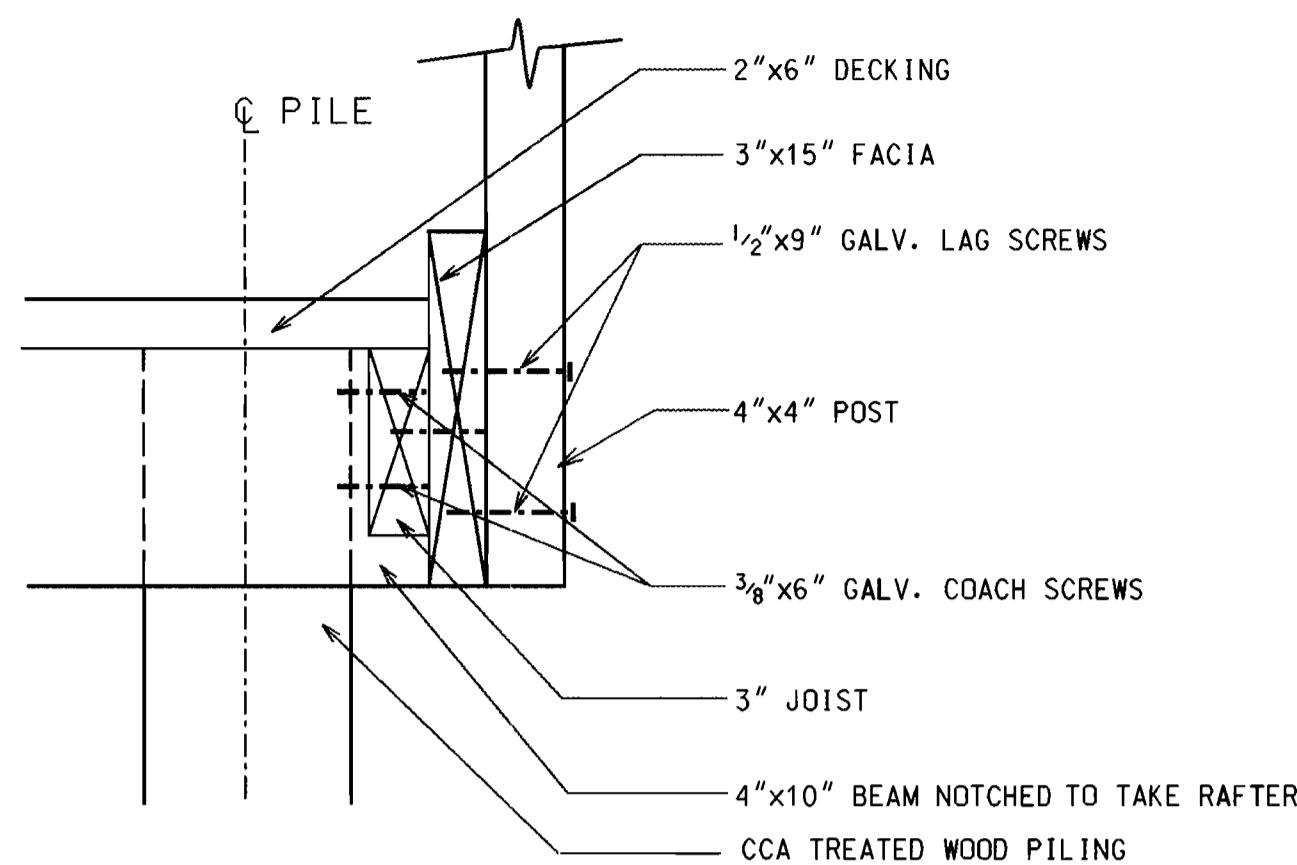
SCALE  
 AS  
 SHOWN

SHEET  
 27 OF 35

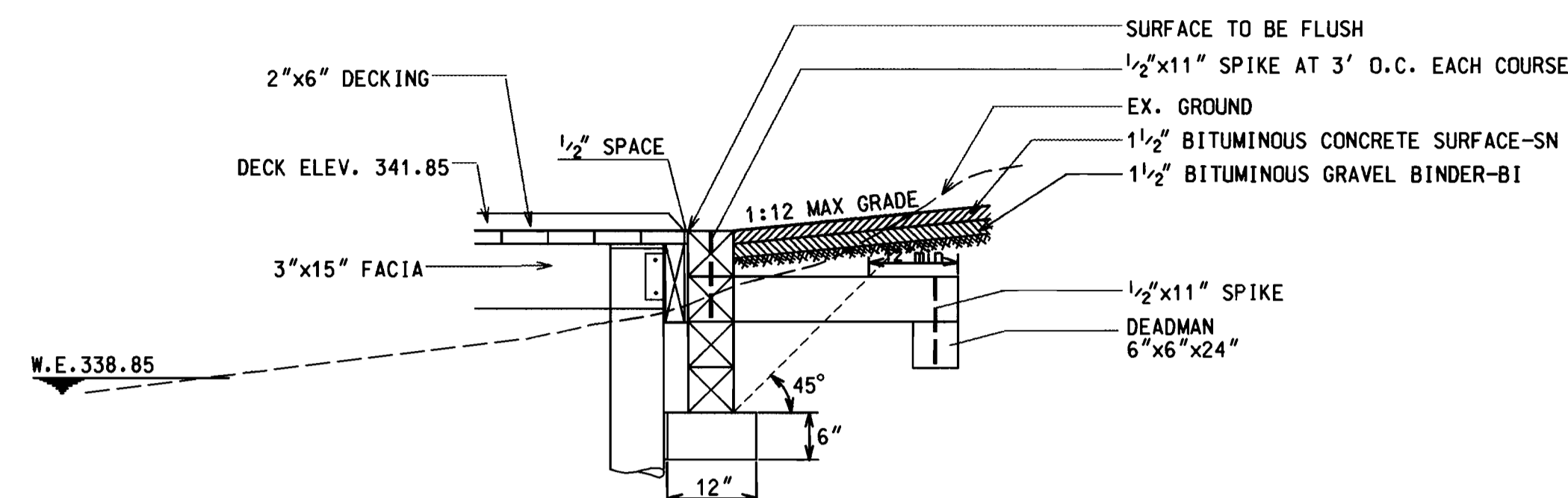




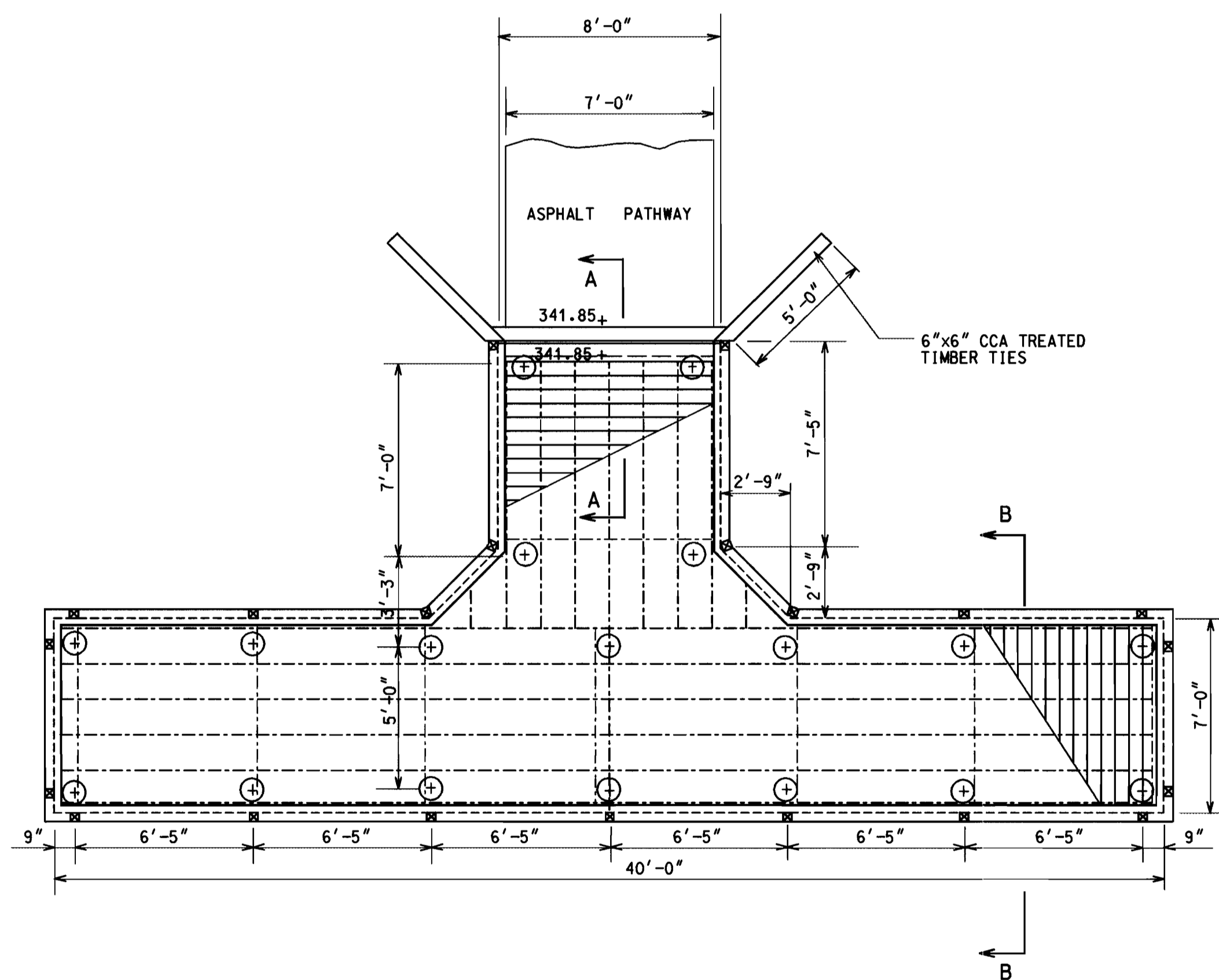
CAPPING DETAIL  
NTS



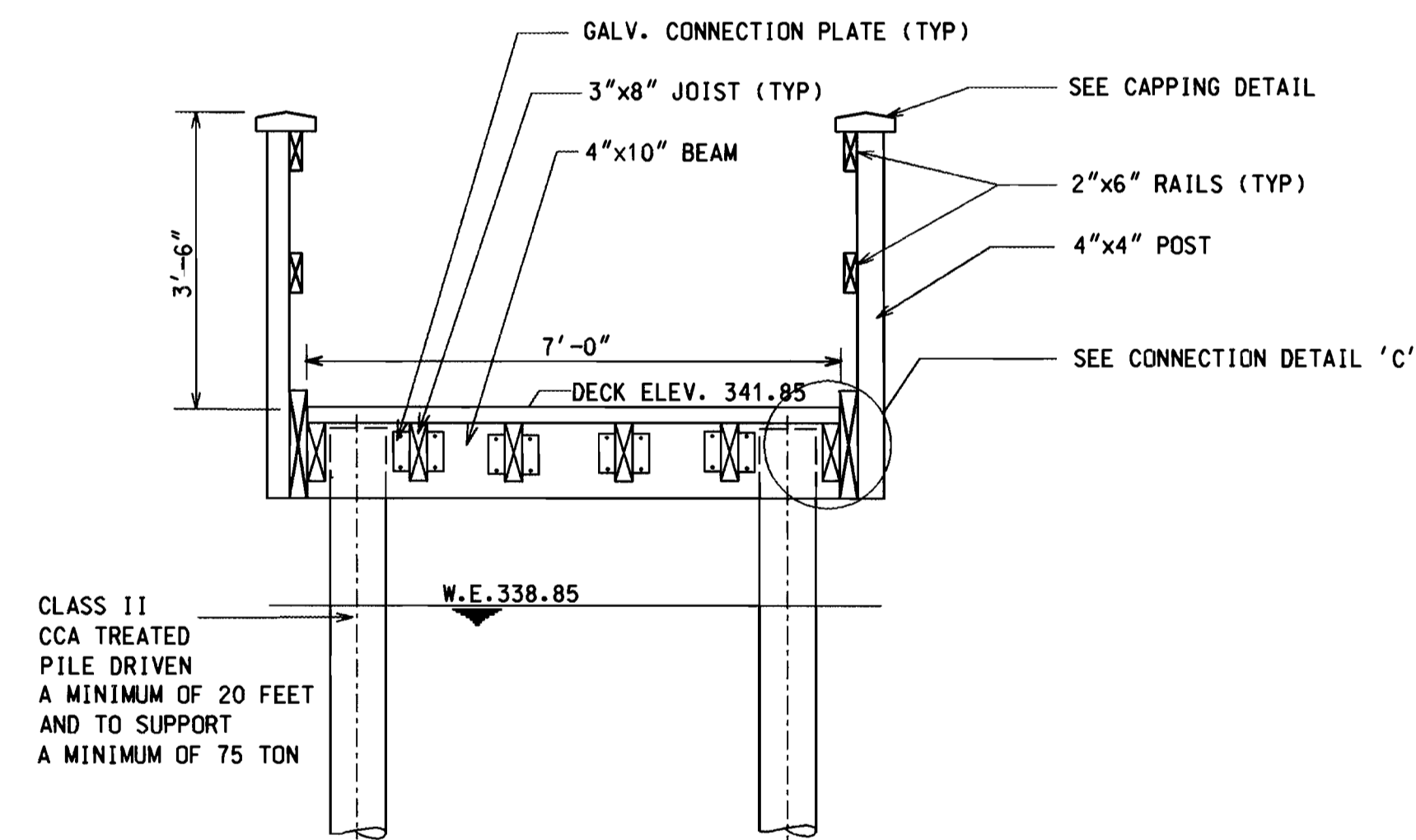
CONNECTION DETAIL 'C'  
NTS



SECTION A-A  
NTS



PLAN  
SCALE: 1/4" = 1'



SECTION B-B  
NTS

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

\_\_\_\_\_ 10/16/01  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE  
 \_\_\_\_\_ 10/23/01  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE  
 \_\_\_\_\_ 10/23/01  
 DIRECTOR DATE

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 \_\_\_\_\_ 9/26/01  
 DIRECTOR OF PUBLIC WORKS DATE  
 \_\_\_\_\_ 9/20/01  
 CHIEF - BUREAU OF ENGINEERING, a ctmg DATE

DEPARTMENT OF RECREATION & PARKS  
 HOWARD COUNTY, MARYLAND  
 APPROVED:  
 \_\_\_\_\_ 7-18-01  
 DIRECTOR, DEPARTMENT OF RECREATION & PARKS DATE

**P.E.L.A. DESIGN, INC.**  
 PLANNERS/ENGINEERS/LANDSCAPE ARCHITECTS  
 212 WASHINGTON AVENUE, SUITE 100  
 TEL: 410-296-5545  
 FAX: 410-296-5547

DES: LT, PM, T.J.L.			
DRN: RCJ			
CHK: T.J.L.			
DATE: 11-30-00	BY	NO.	REVISION

OBSERVATION DECK  
DETAILS

**SEWELL'S ORCHARD COMMUNITY PARK**  
 SEWELL'S ORCHARD DRIVE, COLUMBIA, MD 21045  
 ELECTION DISTRICT: 6 TAX MAP NO. 36 PARCEL NO. 470, 480 & 485  
**PHASE II**  
 CAPITAL PROJECT No.: N-3951 CONTRACT AGREEMENT No.: CA-93-52  
 PURCHASE ORDER No.: 19484 PELA PROJECT No.: 93J16

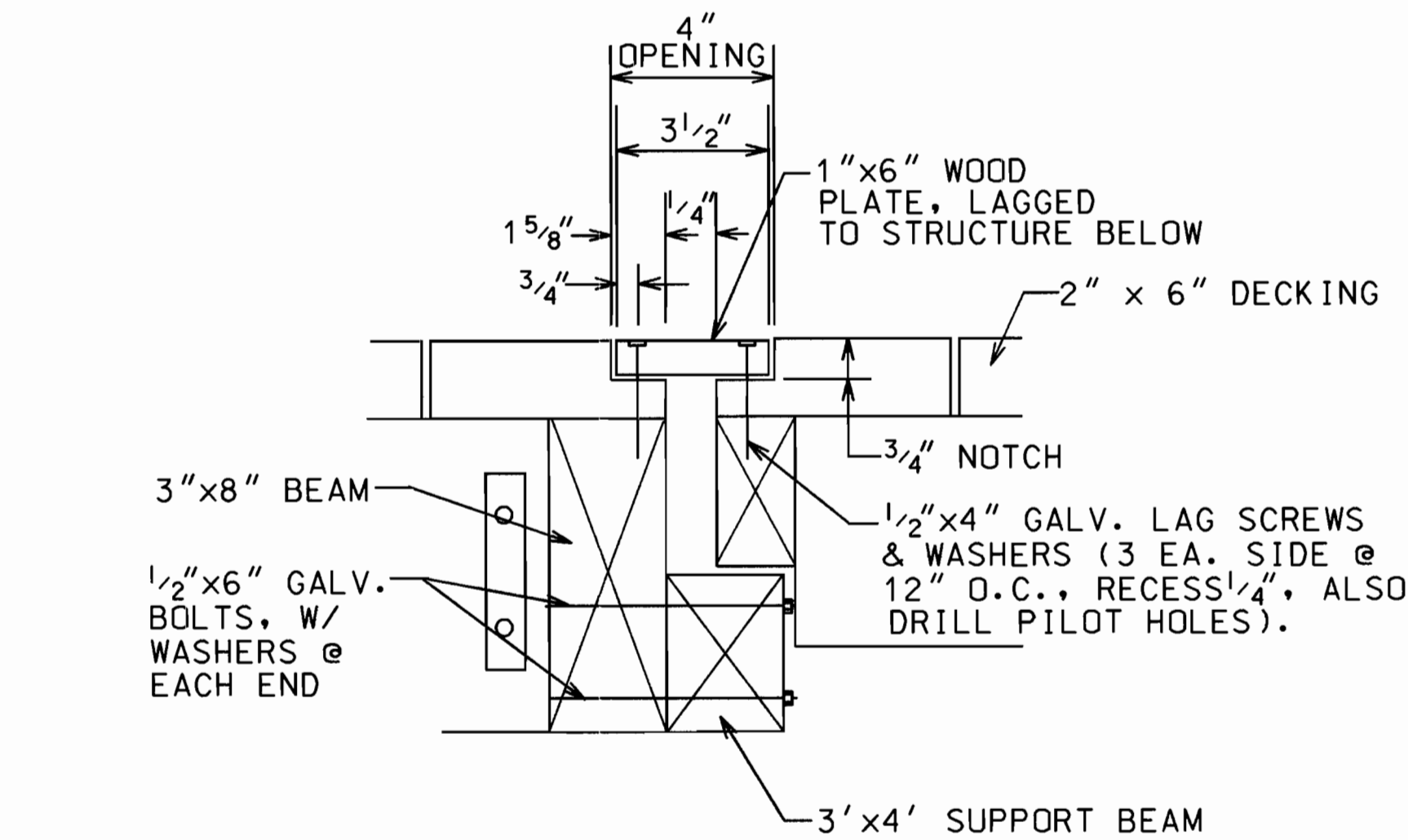
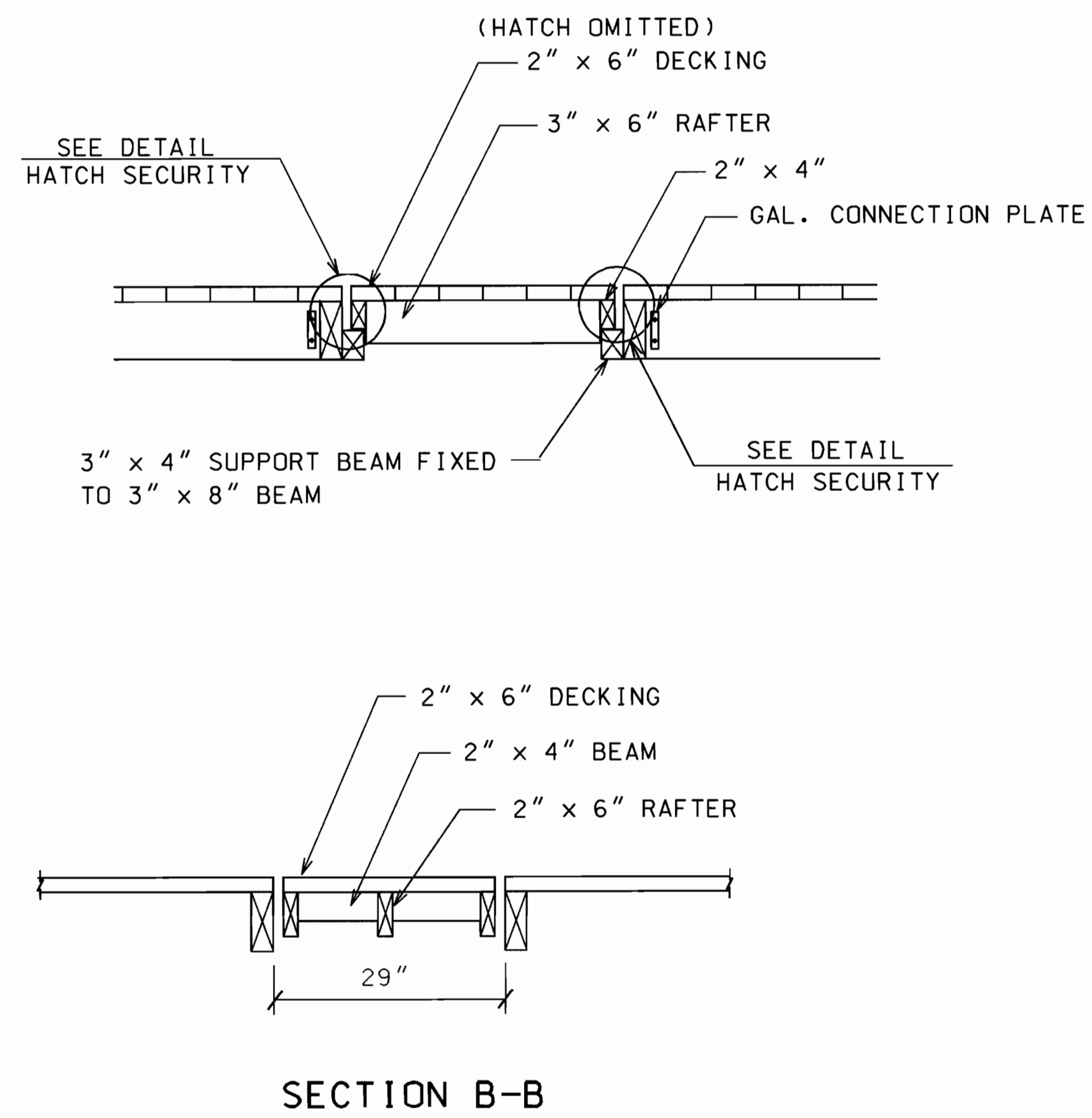
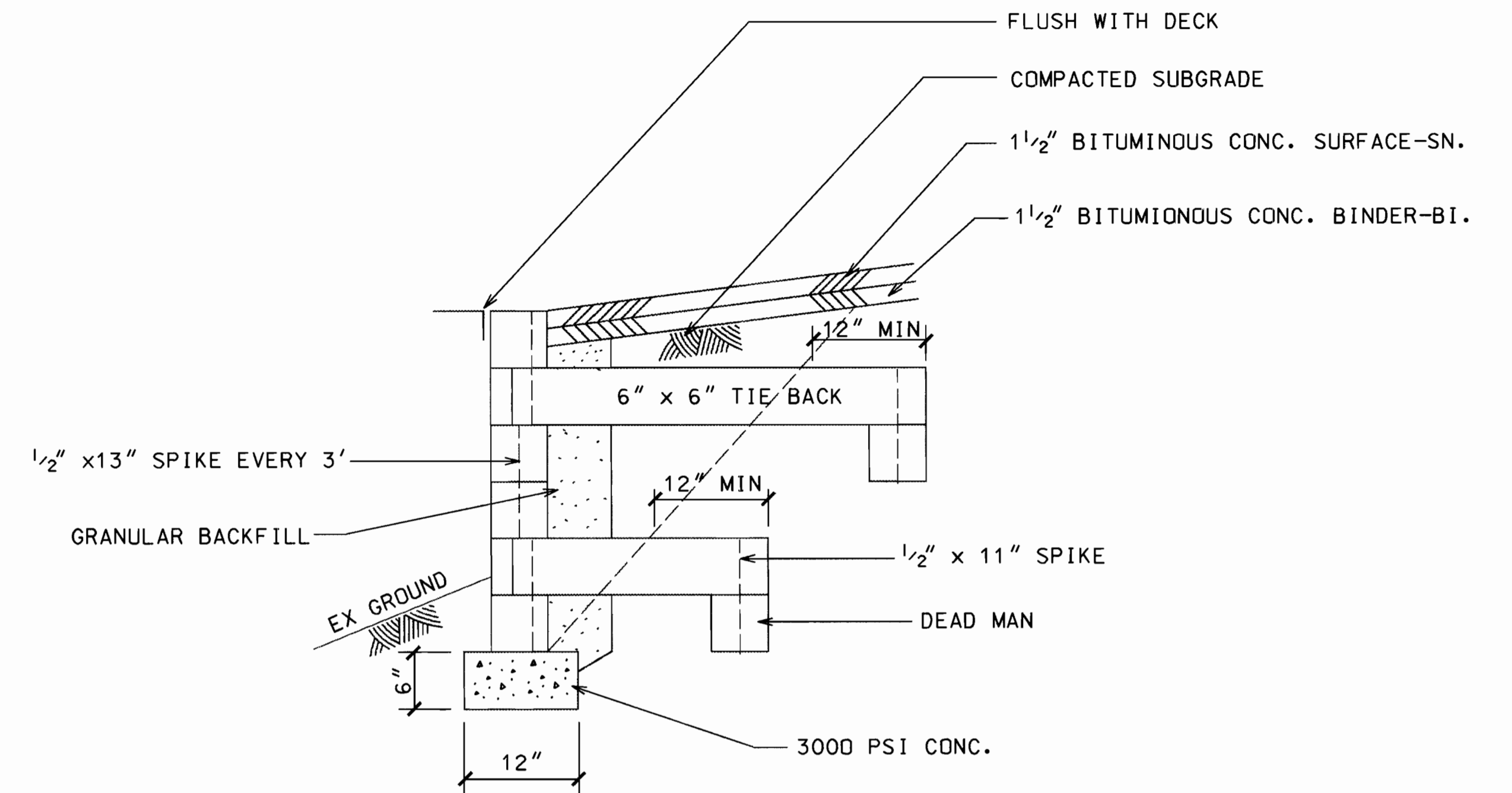
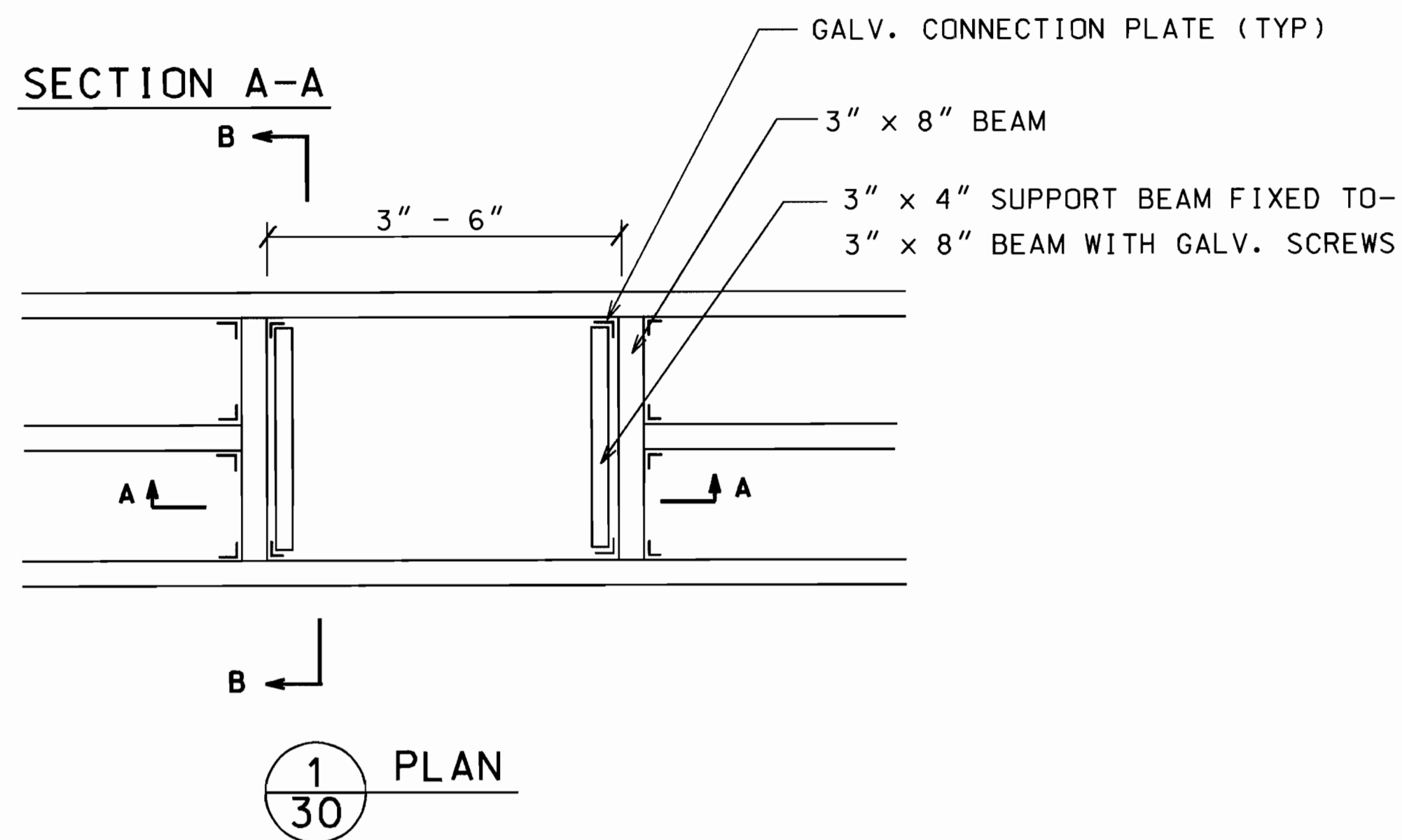
SCALE  
 AS  
 SHOWN  
 SHEET  
 28 OF 35



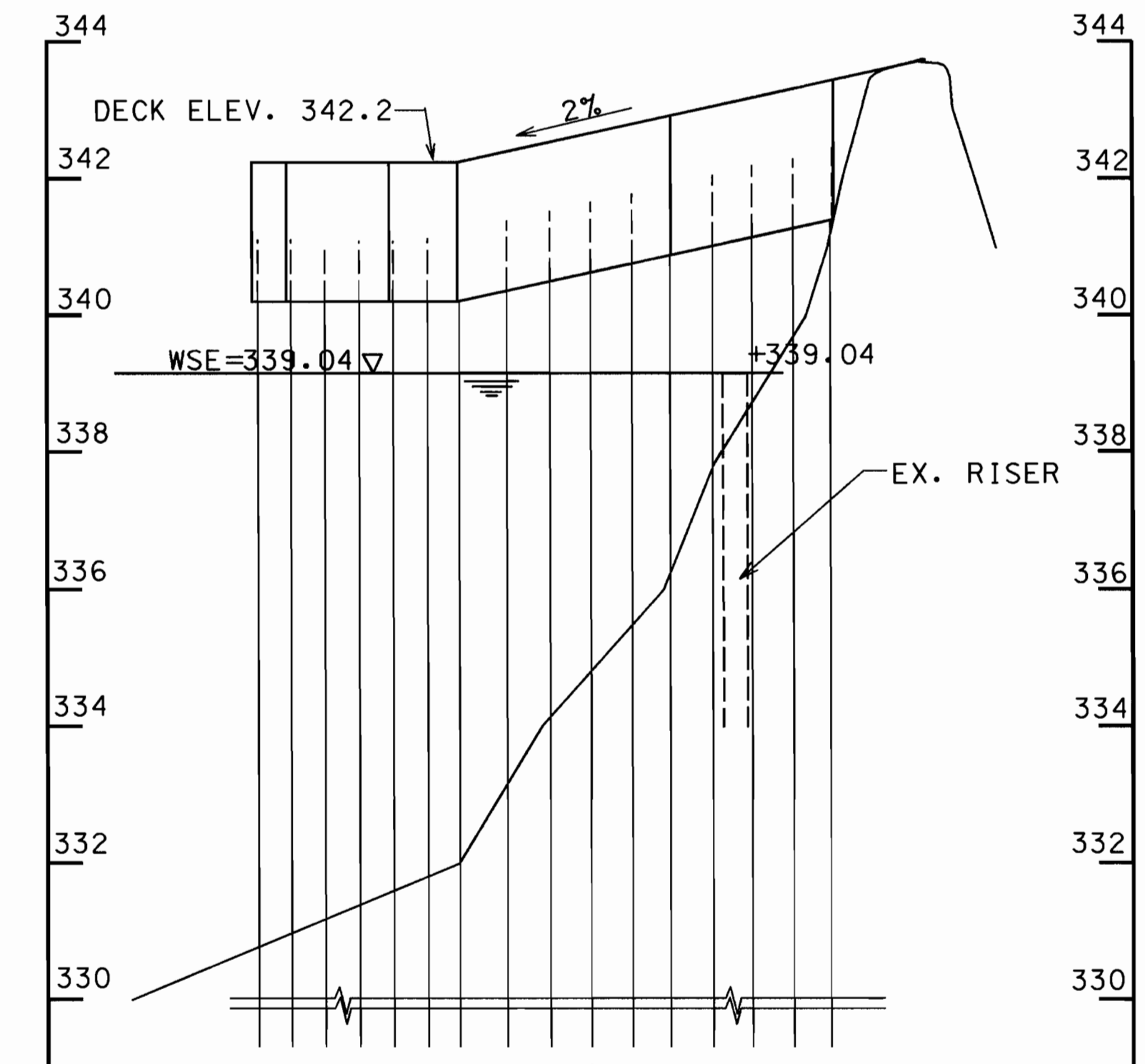








2 SECTION-TIMBER ABUTMENT  
SCALE: 1' = 1'-0"



5 PROFILE-FISHING PIER CENTER LINE  
SCALE H 1" = 20'-0"  
V 1" = 2'-0"

3 ACCESS HATCH DETAILS  
SCALE: 3/4" = 1'

4 HATCH SECURITY - ELEVATION  
NTS

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

*[Signature]* 10/26/01  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

*[Signature]* 10/23/01  
CHIEF, DIVISION OF LAND DEVELOPMENT

*[Signature]* 10/25/01  
DIRECTOR

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*[Signature]* 9/20/01  
DIRECTOR OF PUBLIC WORKS

*[Signature]* 9/20/01  
CHIEF - BUREAU OF ENGINEERING, acting

DEPARTMENT OF RECREATION & PARKS  
HOWARD COUNTY, MARYLAND

APPROVED: *[Signature]* 9-18-01  
DIRECTOR, DEPARTMENT OF RECREATION & PARKS

P.E.L.A. DESIGN, INC.  
PLANNERS, ENGINEERS, & LANDSCAPE ARCHITECTS

212 WASHINGTON AVE., SUITE 100  
TOWSON, MD 21204  
TEL: 410-296-5545  
FAX: 410-296-5547

DES: TJL			
DRN: JAH, RCJ			
CHK: TJL			
DATE: 11-30-00	BY	NO.	REVISION

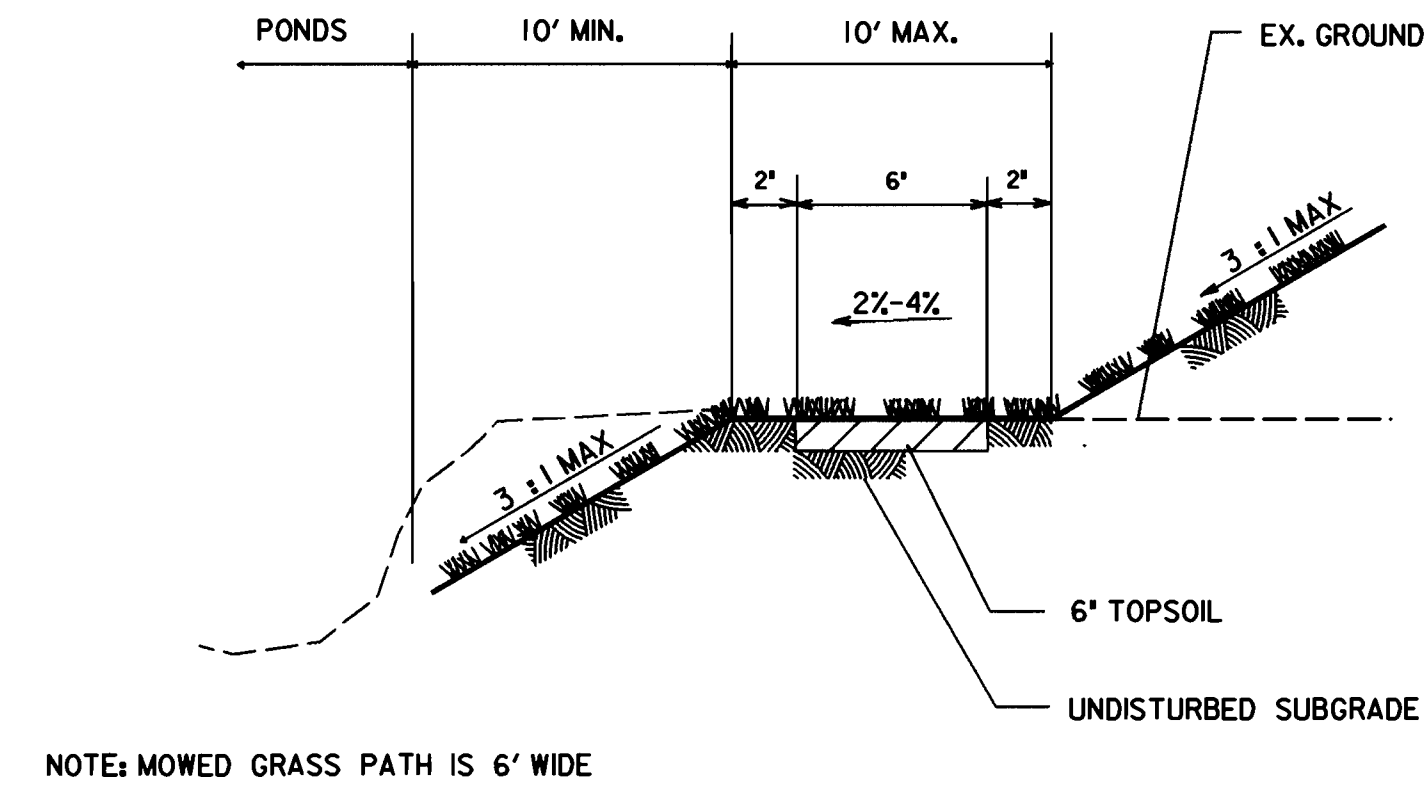
FISHING PIER  
DETAILS (2)

SEWELL'S ORCHARD COMMUNITY PARK  
SEWELL'S ORCHARD DRIVE, COLUMBIA, MD 21045  
ELECTION DISTRICT: 6 TAX MAP NO. 36 PARCEL NO. 470, 480 & 485  
PHASE II

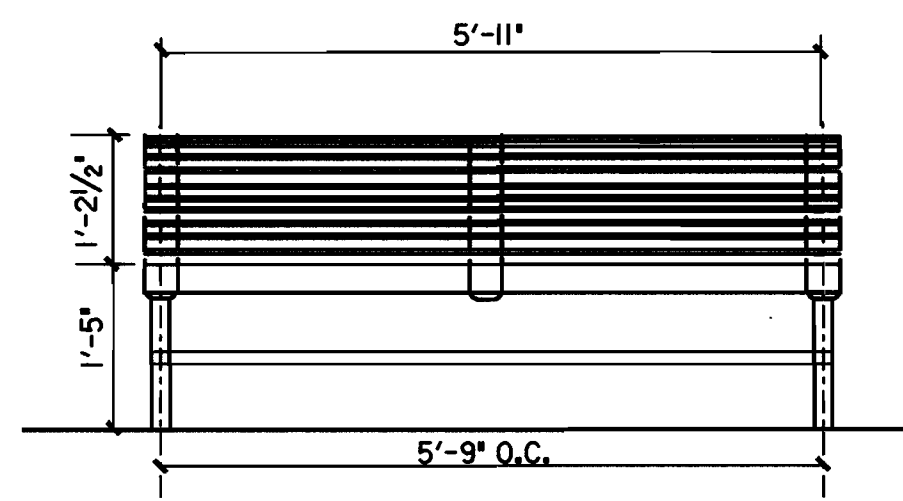
Capital Project No.: N-3951 Contract Agreement No.: CA-93-52  
Purchase Order No.: 19484 PELA Project No.: 93.16



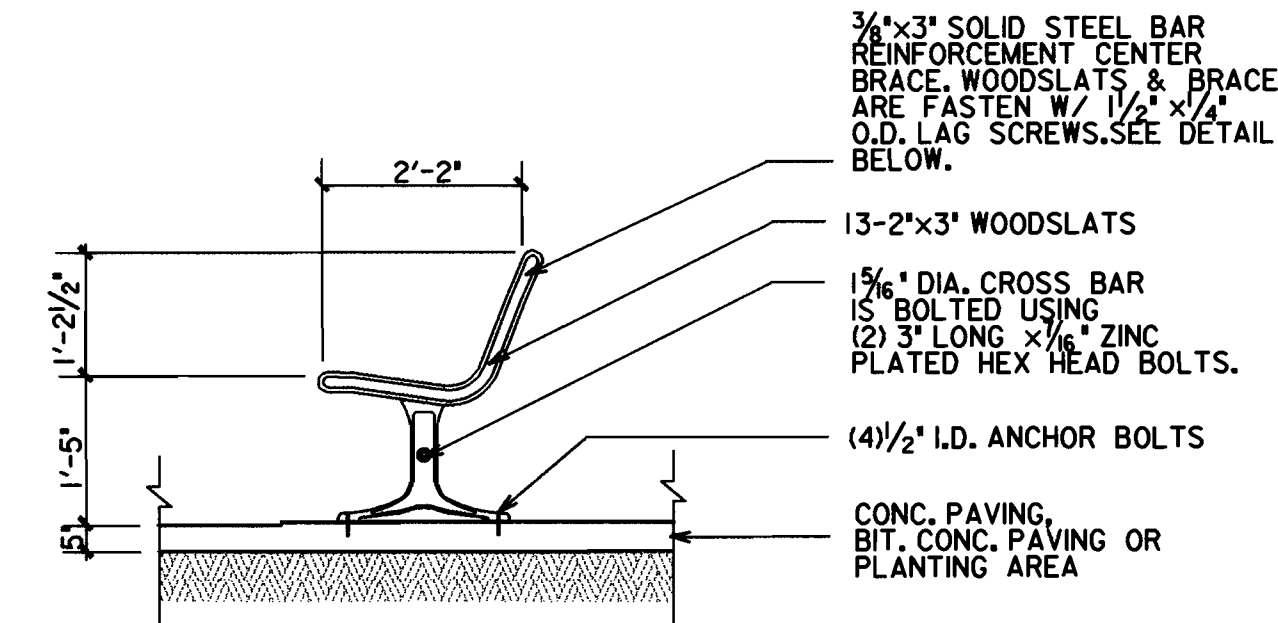




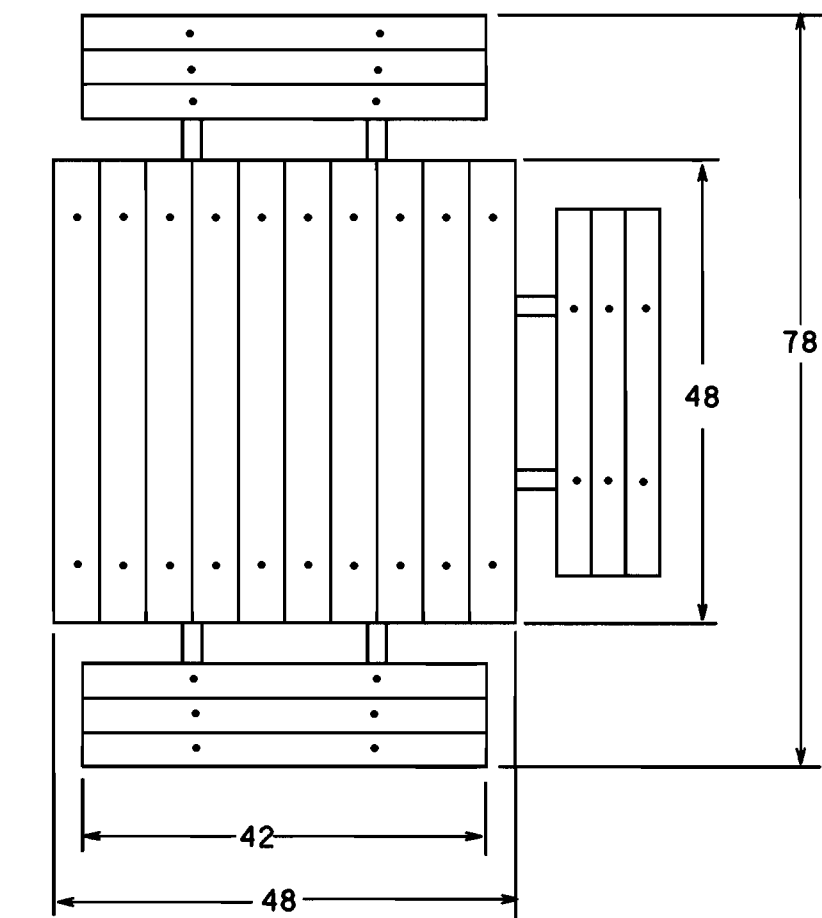
1 SECTION-GRASSED PATH  
31 NTS



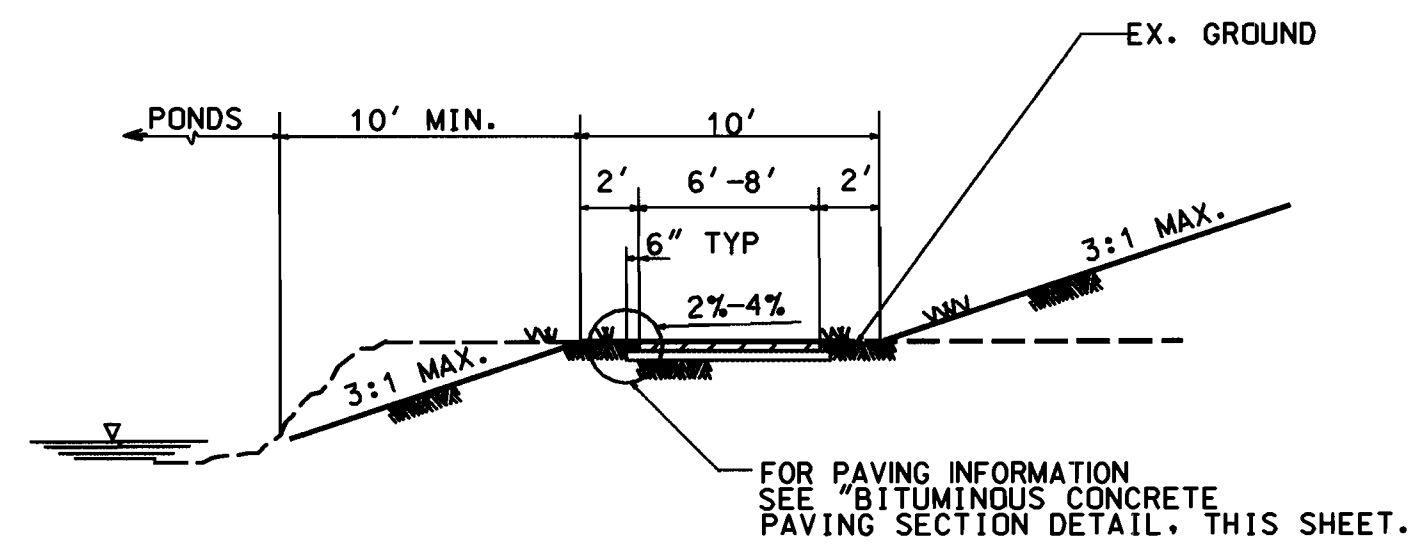
2 BENCH DETAILS  
31 NTS



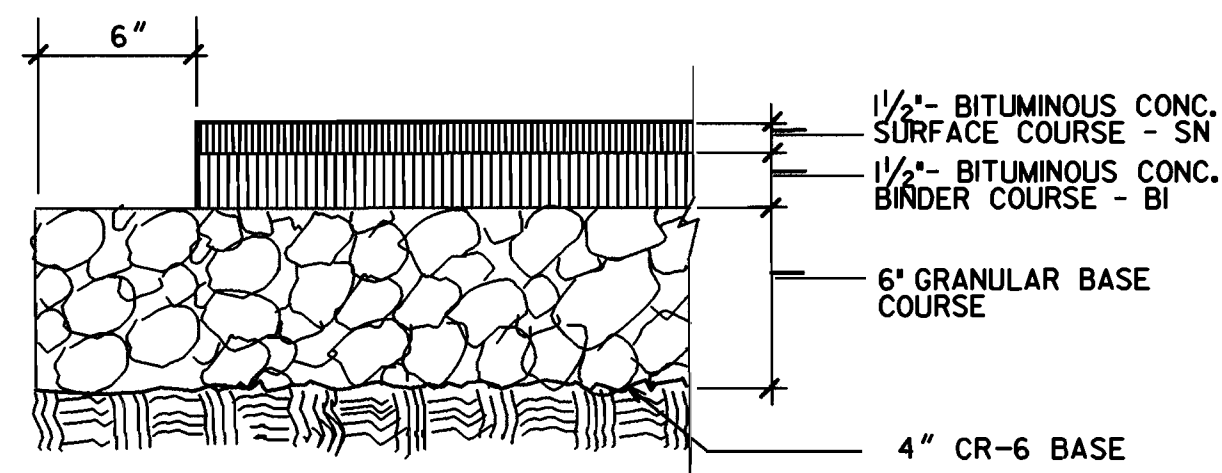
NOTE: 1 1/2" x 1/4" O.D. VANDEL RESISTANT LAG SCREWS FASTEN WOODSLATS TO BRACE FROM UNDERNEATH.



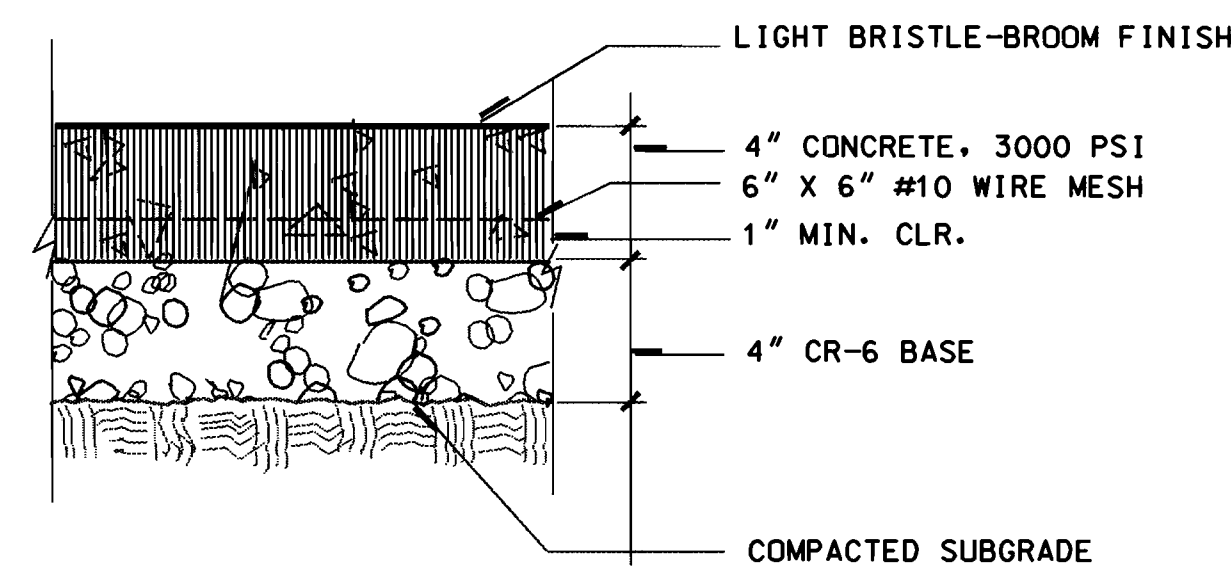
TOP VIEW



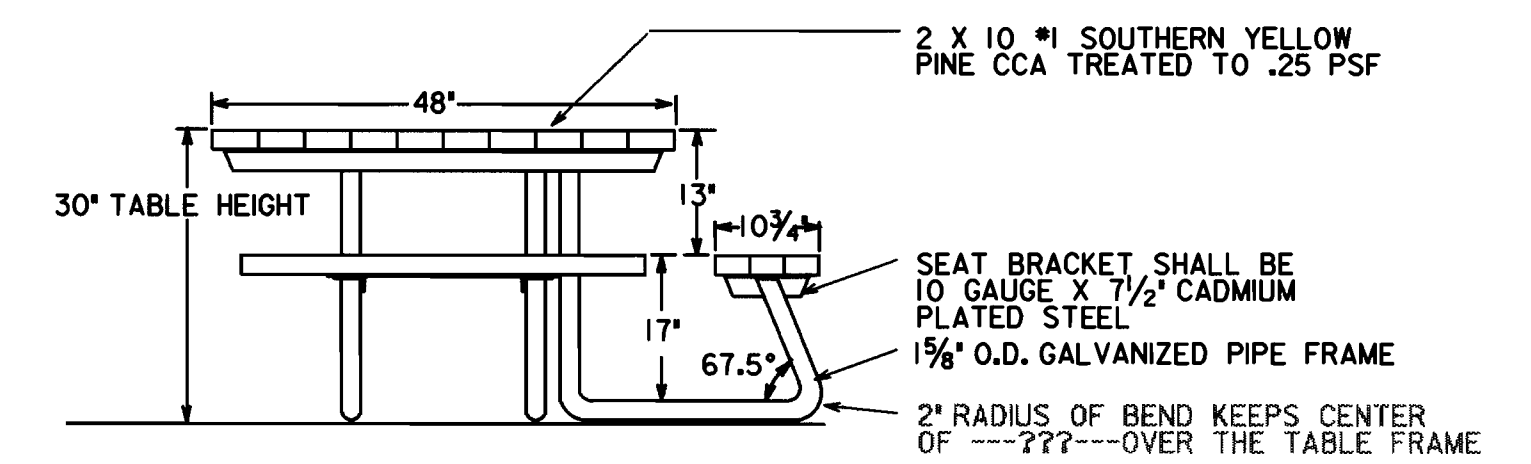
3 SECTION-MACADAM PATH  
31 NTS



4 BITUMINOUS CONC. PAVING SECTION  
31 NTS

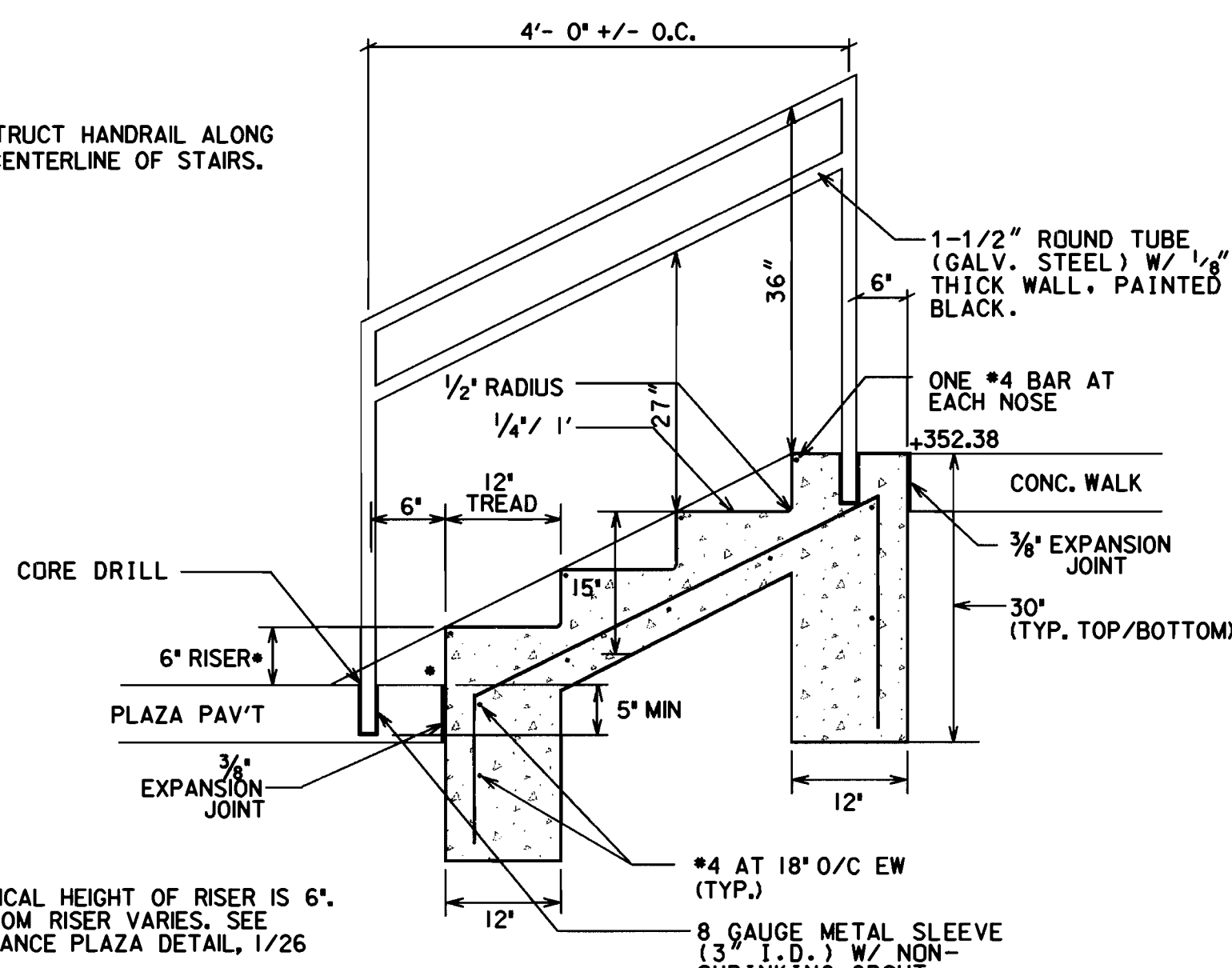


5 CONC. PAVING SECTION - PLAZA  
31 NTS

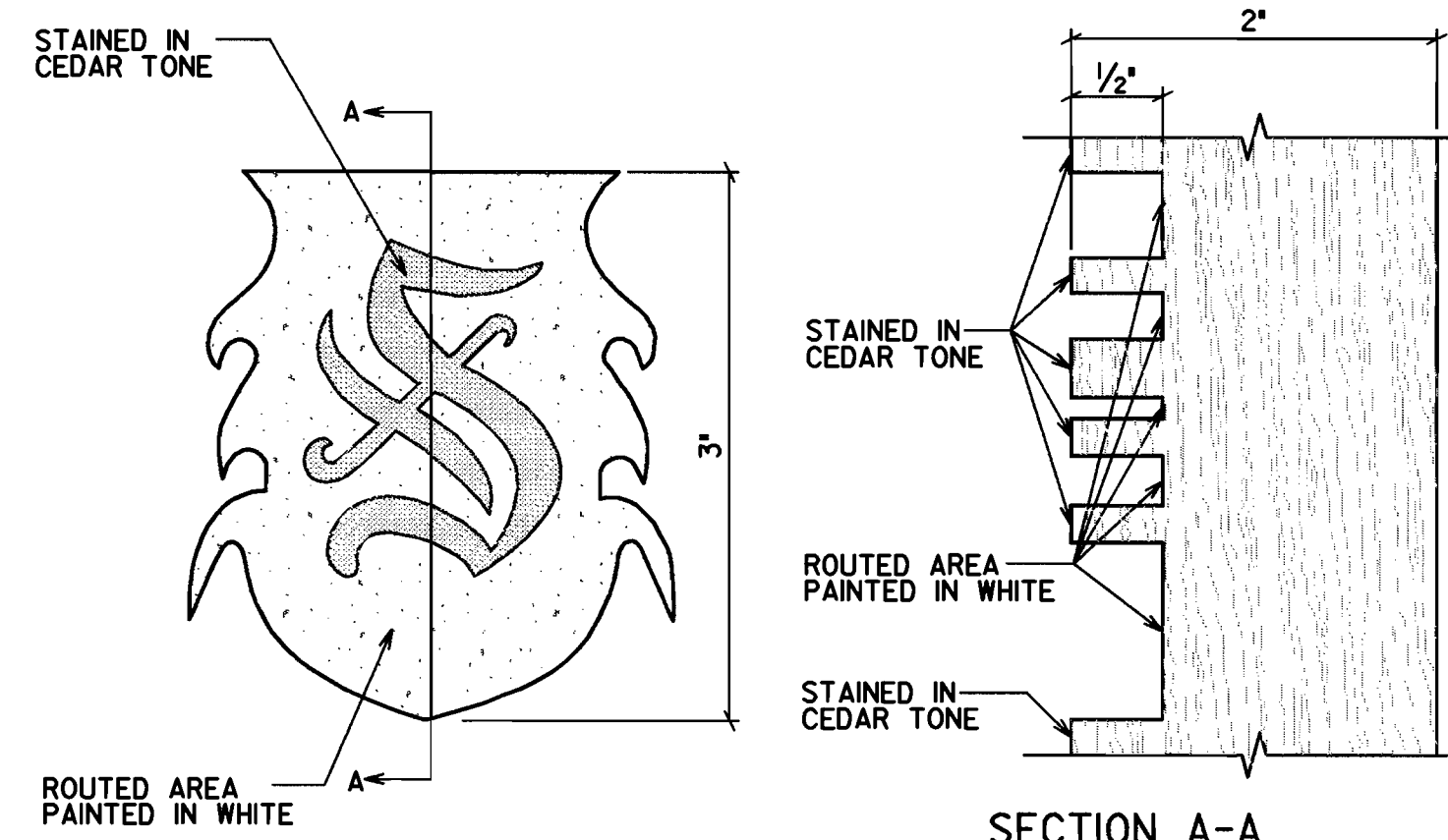


SIDE ELEVATION

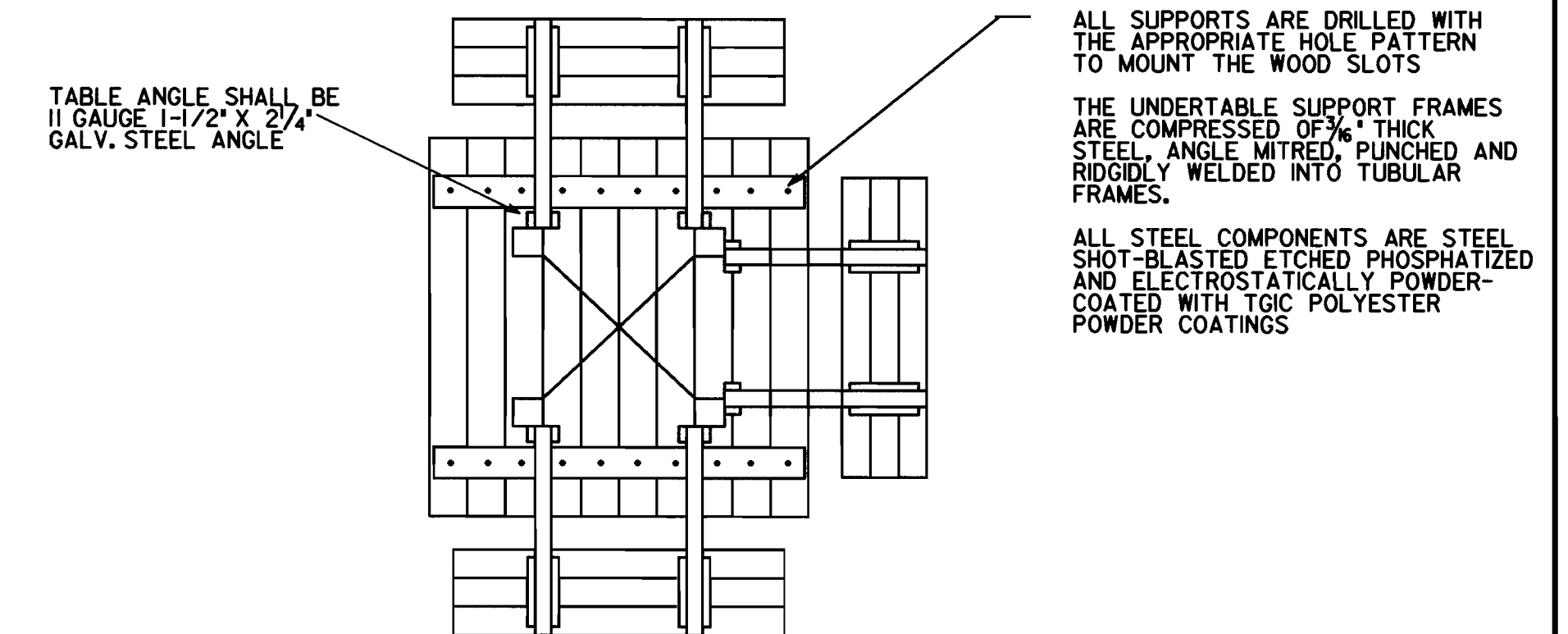
NOTE: CONSTRUCT HANDRAIL ALONG THE CENTERLINE OF STAIRS.



6 CONCRETE STEPS  
31 NTS



10 SEWELL'S ORCHARD LOGO ILLUSTRATIVE DETAIL  
31 NTS



BOTTOM VIEW

NOTE: PICNIC TABLE SHALL BE WHEEL CHAIR PICNIC TABLE MODEL NO. 1337, AS MANUFACTURED BY GAME TIME, OR APPROVED EQUAL.

9 PICNIC TABLE DETAILS  
31 NTS

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION  
*Cheryl Hamble* 10/23/01  
 CHIEF, DIVISION OF LAND DEVELOPMENT  
*Joseph Routh* 10/25/01  
 DIRECTOR

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
*James P. Shaw* 9/26/01  
 DIRECTOR OF PUBLIC WORKS  
*Ed Calvia* 9/26/01  
 CHIEF - BUREAU OF ENGINEERING, acting

DEPARTMENT OF RECREATION & PARKS  
 HOWARD COUNTY, MARYLAND  
 APPROVED:  
*Joseph A. Adams* 9-19-01  
 DIRECTOR, DEPARTMENT OF RECREATION & PARKS

P.E.L.A. DESIGN, INC.  
 PLANNERS, ENGINEERS, & LANDSCAPE ARCHITECTS  
 212 WASHINGTON AVE., SUITE 100  
 TOWSON, MD 21204  
 TEL: 410-296-5545  
 FAX: 410-296-5547

DES: LT, TP			
DRN: JAH, RCJ			
CHK: LTT			
DATE: 11-30-00	BY	NO.	REVISION

SITE CONSTRUCTION  
 DETAILS (1)

SEWELL'S ORCHARD COMMUNITY PARK  
 SEWELL'S ORCHARD DRIVE, COLUMBIA, MD 21045  
 ELECTION DISTRICT: 6 TAX MAP NO. 36 PARCEL NO. 470, 480 & 485  
 PHASE II  
 Capital Project No.: N-3951 Contract Agreement No.: CA-93-52  
 Purchase Order No.: 19484 PELA Project No.: 93.16

SCALE AS SHOWN

SHEET 31 OF 35









TEST BORING LOG

PROJECT: Sewell's Orchard PROJECT NO.: N-3090
ELEVATION: N/A OFFSET: N/A SURFACE ELEVATION: 358.0
DATES: START: 3/1/94 FINISH: 3/1/94 INSPECTOR: JR
GROUNDWATER LEVELS (DEPTH/DATE): 2' Below Surface Elevation at 24-Hour Reading

Table with 6 columns: Depth (ft), Sample No. Length Type, Blow Counts Recovery (%), Strata Depth, Strata Identification, RQD. Rows include data for depths 2, 1.5, 5.0, 10.0, 15.0, and 20.0 feet.

GENERAL REMARKS: Caved in at 7' from surface elevation. Groundwater depth at 6' below surface elevation at completion of drilling. End of boring at 20.0 feet.
BORING NO.: 1 SHEET 1 OF 1



TEST BORING LOG

PROJECT: Sewell's Orchard PROJECT NO.: N-3090
ELEVATION: N/A OFFSET: N/A SURFACE ELEVATION: 357.9
DATES: START: 3/1/94 FINISH: 3/1/94 INSPECTOR: JK
GROUNDWATER LEVELS (DEPTH/DATE): 2' Below Surface Elevation at 24-Hour Reading

Table with 6 columns: Depth (ft), Sample No. Length Type, Blow Counts Recovery (%), Strata Depth, Strata Identification, RQD. Rows include data for depths 2, 1.5, 5.0, 10.0, 15.0, and 20.0 feet.

GENERAL REMARKS: Caved in at 8' from surface elevation. Groundwater depth at 5' below surface elevation after completion of drilling. End of boring at 20.0 feet.
BORING NO.: 2 SHEET 1 OF 1



TEST BORING LOG

PROJECT: Sewell's Orchard PROJECT NO.: N-3090
ELEVATION: N/A OFFSET: N/A SURFACE ELEVATION: 350.1
DATES: START: 2/2/94 FINISH: 2/2/94 INSPECTOR: JK
GROUNDWATER LEVELS (DEPTH/DATE): See Sheet 1 of 2

Table with 6 columns: Depth (ft), Sample No. Length Type, Blow Counts Recovery (%), Strata Depth, Strata Identification, RQD. Rows include data for depths 25.0 and 20.0 feet.

GENERAL REMARKS: See Sheet 1 of 2
BORING NO.: 3 SHEET 2 OF 2



TEST BORING LOG

PROJECT: Sewell's Orchard PROJECT NO.: N-3090
ELEVATION: N/A OFFSET: N/A SURFACE ELEVATION: 350.1
DATES: START: 2/2/94 FINISH: 2/2/94 INSPECTOR: JK
GROUNDWATER LEVELS (DEPTH/DATE): 2.5' Below Surface Elevation at 24-Hour Reading

Table with 6 columns: Depth (ft), Sample No. Length Type, Blow Counts Recovery (%), Strata Depth, Strata Identification, RQD. Rows include data for depths 8, 1.5, 5.0, 10.0, 15.0, and 20.0 feet.

GENERAL REMARKS: Caved in at 4.0 feet. Watertable at 8.5' below surface elevation after completion of drilling.
BORING NO.: 3 SHEET 1 OF 2



TEST BORING LOG

PROJECT: Sewell's Orchard PROJECT NO.: N-3090
ELEVATION: N/A OFFSET: N/A SURFACE ELEVATION: 348.4
DATES: START: 2/2/94 FINISH: 2/2/94 INSPECTOR: JK
GROUNDWATER LEVELS (DEPTH/DATE): 0.5' Below Surface Elevation at 24-Hour Reading

Table with 6 columns: Depth (ft), Sample No. Length Type, Blow Counts Recovery (%), Strata Depth, Strata Identification, RQD. Rows include data for depths 8, 1.5, 5.0, 10.0, 15.0, and 20.0 feet.

GENERAL REMARKS: Caved in at 1.5' from surface elevation. Groundwater depth 6' below surface elevation at completion of drilling.
BORING NO.: 4 SHEET 1 OF 2



TEST BORING LOG

PROJECT: Sewell's Orchard PROJECT NO.: N-3090
ELEVATION: N/A OFFSET: N/A SURFACE ELEVATION: 348.4
DATES: START: 2/2/94 FINISH: 2/2/94 INSPECTOR: JK
GROUNDWATER LEVELS (DEPTH/DATE): See Sheet 1 of 2

Table with 6 columns: Depth (ft), Sample No. Length Type, Blow Counts Recovery (%), Strata Depth, Strata Identification, RQD. Rows include data for depths 25.0 and 20.0 feet.

GENERAL REMARKS: See Sheet 1 of 2
BORING NO.: 4 SHEET 2 OF 2



TEST BORING LOG

PROJECT: Sewell's Orchard PROJECT NO.: N-3090
ELEVATION: N/A OFFSET: N/A SURFACE ELEVATION: 353.3
DATES: START: 2/2/94 FINISH: 2/2/94 INSPECTOR: JK
GROUNDWATER LEVELS (DEPTH/DATE): 9' Below Surface Elevation at 24-Hour Reading

Table with 6 columns: Depth (ft), Sample No. Length Type, Blow Counts Recovery (%), Strata Depth, Strata Identification, RQD. Rows include data for depths 1.5, 5.0, 10.0, 15.0, and 20.0 feet.

GENERAL REMARKS: Caved in at 10' from surface elevation. No ground water at the completion of drilling.
BORING NO.: 5 SHEET 1 OF 1



TEST BORING LOG

PROJECT: Sewell's Orchard PROJECT NO.: N-3090
ELEVATION: N/A OFFSET: N/A SURFACE ELEVATION: 350.6
DATES: START: 2/2/94 FINISH: 2/2/94 INSPECTOR: JK
GROUNDWATER LEVELS (DEPTH/DATE): 6' Below Surface Elevation at 24-Hour Reading

Table with 6 columns: Depth (ft), Sample No. Length Type, Blow Counts Recovery (%), Strata Depth, Strata Identification, RQD. Rows include data for depths 1.5, 5.0, 10.0, 15.0, and 20.0 feet.

GENERAL REMARKS: Caved in at 7'. No ground water encountered after completion of drilling.
BORING NO.: 6 SHEET 1 OF 1

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
Signatures and dates for Chief Development Engineering Division, Chief Division of Land Development, and Director.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Director of Public Works: [Signature]
Date: 9/26/00
Chief, Bureau of Engineering: [Signature]

P.E.L.A. DESIGN, INC.
PLANNERS, ENGINEERS, & LANDSCAPE ARCHITECTS
212 WASHINGTON AVE., SUITE 100
TOWSON, MD 21204
TEL: 410-296-5545
FAX: 410-296-5547



Table with columns: DES, DRN, RCJ, CHK, TJL, DATE, BY, NO., REVISION, DATE, 600' SCALE NO., BLOCK NO.

BORING LOGS I

SEWELL'S ORCHARD COMMUNITY PARK
SEWELL'S ORCHARD DRIVE, COLUMBIA, MD 21045
6TH ELECTION DISTRICT TAX MAP NO. 36
PHASE II
Capital Project No.: N-3591 Contract Agreement No.: CA-93-52
Purchase Order No.: 19484 P.E.L.A. Project No.: 93.16
SCALE AS SHOWN
SHEET 33 OF 35
SDP-01-35





TEST BORING LOG

PROJECT: Sewell's Orchard PROJECT NO.: N-3090
ELEVATION: N/A OFFSET: N/A SURFACE ELEVATION: 346.1
DATES: START: 2/2/94 FINISH: 2/2/94 INSPECTOR: JK
GROUNDWATER LEVELS (DEPTH/DATE): 1.5' Below Surface Elevation at 24-Hour Reading

Table with columns: Depth (ft), Sample No., Length Type, Blow Counts Recovery (%), Strata Depth, Strata Identification, RQD. Includes data for samples S-1 to S-4.

GENERAL REMARKS: Caved in at 10'. Watertable encountered at 6.0 feet after completion of drilling.

BORING NO.: 7 SHEET 1 OF 1



TEST BORING LOG

PROJECT: Sewell's Orchard PROJECT NO.: N-3090
ELEVATION: N/A OFFSET: N/A SURFACE ELEVATION: 347.7
DATES: START: 2/2/94 FINISH: 2/2/94 INSPECTOR: JK
GROUNDWATER LEVELS (DEPTH/DATE): 2.5' Below Surface Elevation at 24-Hour Reading

Table with columns: Depth (ft), Sample No., Length Type, Blow Counts Recovery (%), Strata Depth, Strata Identification, RQD. Includes data for samples S-1 to S-4.

GENERAL REMARKS: Caved in at 11' from surface elevation. Groundwater depth 7' below surface elevation at completion of drilling.

BORING NO.: 8 SHEET 1 OF 1



TEST BORING LOG

PROJECT: Sewell's Orchard PROJECT NO.: N-3090
ELEVATION: N/A OFFSET: N/A SURFACE ELEVATION: 339.7
DATES: START: 2/10/94 FINISH: 2/10/94 INSPECTOR: JK
GROUNDWATER LEVELS (DEPTH/DATE): At Surface, Surface Runoff

Table with columns: Depth (ft), Sample No., Length Type, Blow Counts Recovery (%), Strata Depth, Strata Identification, RQD. Includes data for samples S-1 to S-5.

GENERAL REMARKS: Surface runoff in the test hole at 13.0' after completion of drilling.

BORING NO.: 9 SHEET 1 OF 2



TEST BORING LOG

PROJECT: Sewell's Orchard PROJECT NO.: N-3090
ELEVATION: N/A OFFSET: N/A SURFACE ELEVATION: 339.7
DATES: START: 2/10/94 FINISH: 2/10/94 INSPECTOR: JK
GROUNDWATER LEVELS (DEPTH/DATE): At Surface, Surface Runoff

Table with columns: Depth (ft), Sample No., Length Type, Blow Counts Recovery (%), Strata Depth, Strata Identification, RQD. Includes data for sample S-5.

GENERAL REMARKS: See Page 1 of 2

BORING NO.: 9 SHEET 2 OF 2



TEST BORING LOG

PROJECT: Sewell's Orchard PROJECT NO.: N-3090
ELEVATION: N/A OFFSET: N/A SURFACE ELEVATION: 339.7
DATES: START: 2/10/94 FINISH: 2/10/94 INSPECTOR: JK
GROUNDWATER LEVELS (DEPTH/DATE): At Surface, Surface Runoff

Table with columns: Depth (ft), Sample No., Length Type, Blow Counts Recovery (%), Strata Depth, Strata Identification, RQD. Includes data for samples S-1 to S-5.

GENERAL REMARKS: Surface runoff in the test hole at 12.0 feet after completion of drilling.

BORING NO.: 10 SHEET 1 OF 2



TEST BORING LOG

PROJECT: Sewell's Orchard PROJECT NO.: N-3090
ELEVATION: N/A OFFSET: N/A SURFACE ELEVATION: 339.7
DATES: START: 2/10/94 FINISH: 2/10/94 INSPECTOR: JK
GROUNDWATER LEVELS (DEPTH/DATE): See Sheet 1 of 2

Table with columns: Depth (ft), Sample No., Length Type, Blow Counts Recovery (%), Strata Depth, Strata Identification, RQD. Includes data for sample S-6.

GENERAL REMARKS: See Sheet 1 of 2

BORING NO.: 10 SHEET 2 OF 2



TEST BORING LOG

PROJECT: Sewell's Orchard PROJECT NO.: N-3090
ELEVATION: N/A OFFSET: N/A SURFACE ELEVATION: 350.70
DATES: START: 2/10/94 FINISH: 2/10/94 INSPECTOR: JK
GROUNDWATER LEVELS (DEPTH/DATE): At Surface at 24-Hour Reading

Table with columns: Depth (ft), Sample No., Length Type, Blow Counts Recovery (%), Strata Depth, Strata Identification, RQD. Includes data for samples S-1 to S-5.

GENERAL REMARKS: Groundwater encountered at 16.5 feet at completion of drilling. Caved in at 8' below ground surface. End of boring at 20.0 feet.

BORING NO.: 11 SHEET 1 OF 1



TEST BORING LOG

PROJECT: Sewell's Orchard PROJECT NO.: N-3090
ELEVATION: N/A OFFSET: N/A SURFACE ELEVATION: 341.7
DATES: START: 3/1/94 FINISH: 3/1/94 INSPECTOR: JK
GROUNDWATER LEVELS (DEPTH/DATE): 8.5' Below Surface Elevation at 24-Hour Reading

Table with columns: Depth (ft), Sample No., Length Type, Blow Counts Recovery (%), Strata Depth, Strata Identification, RQD. Includes data for samples S-1 to S-5.

GENERAL REMARKS: Caved in at 9.0 feet. Watertable at 12.5 feet after completion of drilling. End of boring at 20.0 feet.

BORING NO.: 12 SHEET 1 OF 1

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING. Includes signatures and dates for Chief Development Engineering Division and Chief Division of Land Development and Research.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND. Includes signature of Director of Public Works and Chief of Bureau of Engineering.

P.E.L.A. DESIGN, INC. PLANNERS, ENGINEERS, & LANDSCAPE ARCHITECTS. 212 WASHINGTON AVE., SUITE 100 TOWSON, MD 21204



Table with columns: DES, DRN, CHK, DATE, BY, NO, REVISION, DATE, 600' SCALE NO., BLOCK NO.

BORING LOGS II

SEWELL'S ORCHARD COMMUNITY PARK SEWELL'S ORCHARD DRIVE, COLUMBIA, MD 21045 6TH ELECTION DISTRICT TAX MAP NO. 36 PHASE II. Includes project and purchase order numbers.

SCALE AS SHOWN SHEET 34 OF 35





TEST BORING LOG

PROJECT: Sewell's Orchard PROJECT NO.: N-3090
ELEVATION: N/A OFFSET: N/A SURFACE ELEVATION: 342.5
DATES: START: 3/1/94 FINISH: 3/1/94 INSPECTOR: JK
GROUNDWATER LEVELS (DEPTH/DATE): 9.5' Below Ground Elevation at 24-Hour Reading

Table with 6 columns: Depth (ft), Sample No. Length Type, B. w Counts Recovery (%), Strata Depth, Strata Identification, RQD. Rows include soil types like Topsoil, Brown silty clay, Grayish brown silty clay, etc.

GENERAL REMARKS: Caved in at 18'. Groundwater encountered at 20' after completion of drilling. BORING NO.: 14 SHEET 1 OF 2



TEST BORING LOG

PROJECT: Sewell's Orchard PROJECT NO.: N-3090
ELEVATION: N/A OFFSET: N/A SURFACE ELEVATION: 342.5
DATES: START: 3/1/94 FINISH: 3/1/94 INSPECTOR: JK
GROUNDWATER LEVELS (DEPTH/DATE): See Sheet 1 of 2

Table with 6 columns: Depth (ft), Sample No. Length Type, Blow Counts Recovery (%), Strata Depth, Strata Identification, RQD. Rows include soil types like Same as S-5, moist, medium dense, etc.

GENERAL REMARKS: See Sheet 1 of 2. BORING NO.: 14 SHEET 2 OF 2



TEST BORING LOG

PROJECT: Sewell's Orchard PROJECT NO.: N-3090
ELEVATION: N/A OFFSET: N/A SURFACE ELEVATION: 345.1
DATES: START: 3/1/94 FINISH: 3/1/94 INSPECTOR: JK
GROUNDWATER LEVELS (DEPTH/DATE): No water table at 2 Hour Reading

Table with 6 columns: Depth (ft), Sample No. Length Type, Blow Counts Recovery (%), Strata Depth, Strata Identification, RQD. Rows include soil types like No topsoil, Brown silty loam, White broken aggregates, etc.

GENERAL REMARKS: Caved in at 11 feet. Ground water encountered at 10.5' after completion of drilling. BORING NO.: 15 SHEET 1 OF 1



TEST BORING LOG

PROJECT: Sewell's Orchard PROJECT NO.: N-3090
ELEVATION: N/A OFFSET: N/A SURFACE ELEVATION: 340.3
DATES: START: 3/1/94 FINISH: 3/1/94 INSPECTOR: JK
GROUNDWATER LEVELS (DEPTH/DATE): No water table at 24-Hour Reading

Table with 6 columns: Depth (ft), Sample No. Length Type, Blow Counts Recovery (%), Strata Depth, Strata Identification, RQD. Rows include soil types like No topsoil, Brownish silty loam, Brown silty sand, etc.

GENERAL REMARKS: Caved in at 6. feet. Water table encountered at 11.0 feet after completion of drilling. BORING NO.: 16 SHEET 1 OF 1



TEST BORING LOG

PROJECT: Sewell's Orchard PROJECT NO.: N-3090
ELEVATION: N/A OFFSET: N/A SURFACE ELEVATION: 356.7
DATES: START: 3/3/94 FINISH: 3/3/94 INSPECTOR: JK
GROUNDWATER LEVELS (DEPTH/DATE): 2.0' Below Surface Elevation at 24-Hour Reading

Table with 6 columns: Depth (ft), Sample No. Length Type, Blow Counts Recovery (%), Strata Depth, Strata Identification, RQD. Rows include soil types like Brown silty clay, Brown silty sand, Greenish micaceous silty clay, etc.

GENERAL REMARKS: Caved in at 8.0'. Water table at 4.5' after completion of drilling. BORING NO.: 17 SHEET 1 OF 1

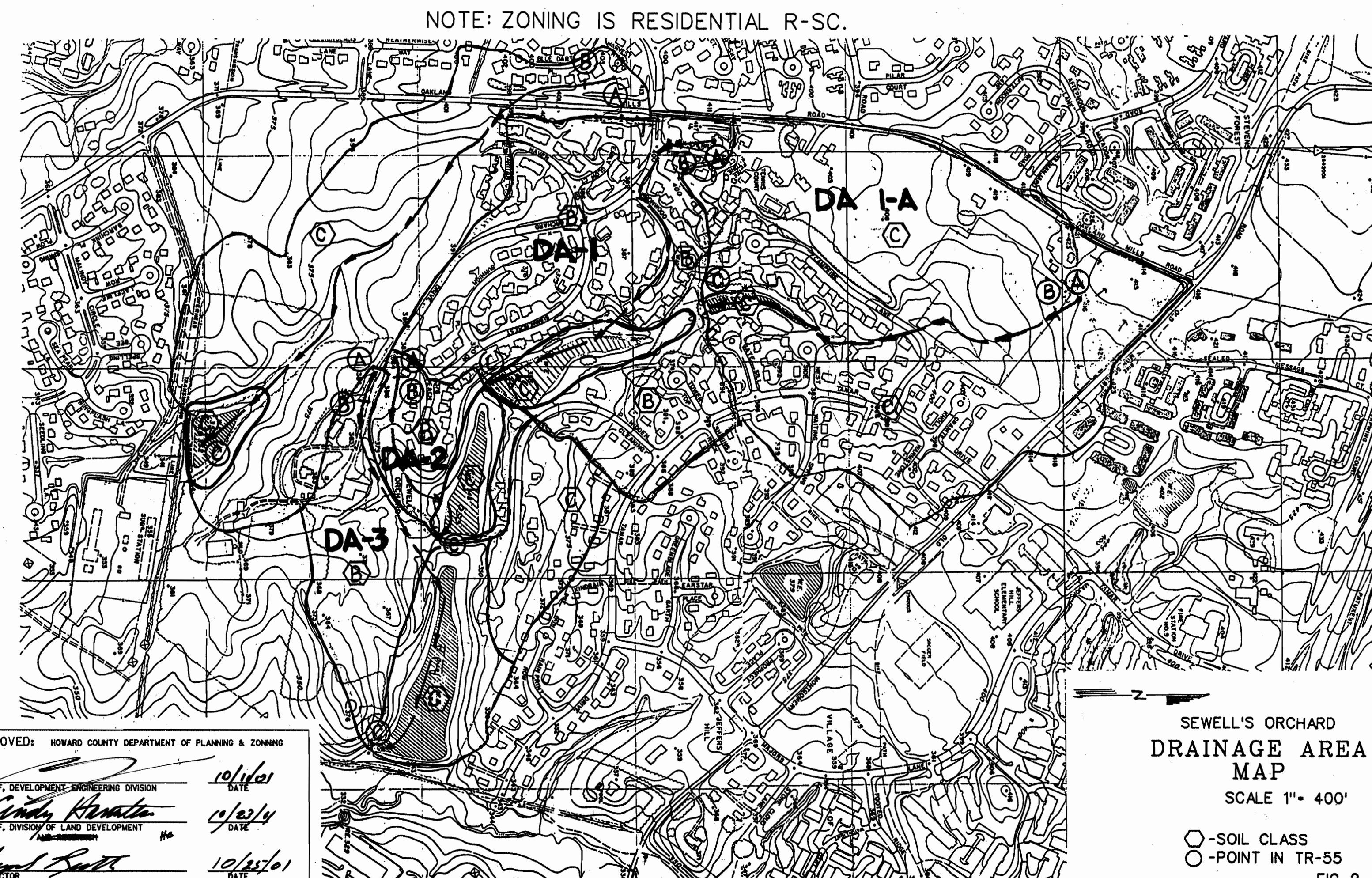


TEST BORING LOG

PROJECT: Sewell's Orchard PROJECT NO.: N-3090
ELEVATION: N/A OFFSET: N/A SURFACE ELEVATION: 358.5
DATES: START: 3/3/94 FINISH: 3/3/94 INSPECTOR: JK
GROUNDWATER LEVELS (DEPTH/DATE): 1.5' Below Surface Elevation at 24-Hour Reading

Table with 6 columns: Depth (ft), Sample No. Length Type, Blow Counts Recovery (%), Strata Depth, Strata Identification, RQD. Rows include soil types like Hand Auger, Brown silty clay organic soil, Dark gray high expansive clay, etc.

GENERAL REMARKS: Caved in at 1.5'. Water table at 3.5' after completion of drilling. BORING NO.: 18 SHEET 1 OF 1



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING. Includes signatures and dates for Development Engineering Division and Division of Land Development.

SEWELL'S ORCHARD DRAINAGE AREA MAP. SCALE 1" = 400'. SOIL CLASS and POINT IN TR-55 symbols.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND. Director of Public Works and Chief - Bureau of Engineering signatures and dates.

P.E.L.A. DESIGN, INC. PLANNERS, ENGINEERS, & LANDSCAPE ARCHITECTS. 212 WASHINGTON AVE., SUITE 100 TOWSON, MD 21204

Table with columns: DES, DRN, CHK, DATE, BY, NO., REVISION, DATE, 600' SCALE NO., BLOCK NO.

BORING LOGS III AND DRAINAGE AREA MAP

SEWELL'S ORCHARD COMMUNITY PARK SEWELL'S ORCHARD DRIVE, COLUMBIA, MD 21045 PHASE II. Capital Project No. N-3591 Contract Agreement No. CA-93-52

SCALE AS SHOWN SHEET 35 OF 35