



STORM DRAINAGE DESIGN DATA SHEET

PROJECT Portside Phase II			COMPUTED BY Bryan Halt			DATE Dec. 13, 1985			
LOCATION Davidson, NC			CHECKED BY Ed Schweitzer			SHEET 1 OF 7			
STORM FREQUENCY 10 YEAR									
LOCATION		AREA		C	INTENSITY		PIPE		REMARKS
FROM	TO	SUB-TOTAL			H	L	I	QFS	
CB#1	CB#2	1.56	.8		6.3	7.86	.012	.05	36" 15' 12.0
CB#2	CB#3	0.18 1.74	.8		6.3	8.77	.012	.054 138'	15' 12.0
CB#5	CB#4	.07	.8		8.3	0.35	.012	.05	30" 15' 12.0
CB#4	CB#3	1.16 2.23	.8		6.3	6.20	.012	.056 72'	15' 14.3
CB#3	FES#6	2.97	.8		6.3	14.97	.012	.065 120'	24" 5.3 Rip Rap Outlet 7'x11'
								</	

STORM DRAINAGE SCHEDULE

Structure	Rim Elev.	Invert Elev.	Pipe Out	Slope
#1	75.50	69.80	36"-15" RCP	5.0%
#2	74.00	68.00	138"-15" RCP	5.4%
#3	64.75	60.60	120"-24" RCP	0.5%
#4	72.50	65.50	72"-15" RCP	6.8%
#5	71.50	67.00	30"-15" RCP	5.0%
#6	-	60.00	00	0

LEGEND

EXISTING CONTOURS	
PROPOSED CONTOURS	
PROPOSED GRT ELEV.	
BREAK POINT	
DIRECTION OF DRAINAGE	
DRAINAGE STRUCTURE & PIPE	
BRIDGE ACCESS SKALE	
CONCRETE RETAINING WALL	
TIMBER RETAINING WALL	
STEPS	
EXISTING TREES TO REMAIN	
BUILDING NUMBER	
FINISHED FLOOR ELEV.	

SITE PLAN

Paul Brown

DATE: DECEMBER 20, 1985
PROJECT NO: 20010
REVISIONS: 1/14/86 NOTES REVISION
1/14/86 OWNER REQUEST

1701 East Boulevard, Charlotte, NC 28203 704/333-0325
1218 Prince Street, Alexandria, VA 22314 703/549-7784

Land Design
Landscape Architecture Land Planning

SHEET NO. 1 OF 7

Sedimentation & Erosion Control

Disturbed Area:
Soil Type: *CEAL CLAY LDM*

Construction Sequence

1. Install silt fence at locations shown on Plans.
2. Install diversion ditch & sediment basin as shown.
3. Stabilize ditches, swales.
4. Inspection by County Engineer.
5. Grade site to subgrade. Maintain silt fences and stone filters.
6. Install storm drainage structures & protect as detailed. Maintain.
7. Areas of the site not to be actively constructed upon shall be seeded within 30 days.
8. Construct pavement areas.
9. Repair all seeded areas. Maintain silt fences.
10. Remove silt fence, sediment traps.
11. Final inspection by County Engineer.

Site Seeding Specifications

1. Lime: Apply 4 tons per acre. Disc.
2. Fertilizer: Apply 1000 lbs/acre 10-10-10
Apply 500 lbs/acre 20% Superphosphate
3. Seed: 80 lbs/acre Kentucky Fescue 31
4. Mulch: Apply 1 1/2 tons/acre wheat straw on all seeded areas.
5. Tack: All slopes to have asphalt tack applied at the rate of 22.5 gallons/acre

IF SEEDING BETWEEN NOV-MARCH MIX SEED WITH P.E.

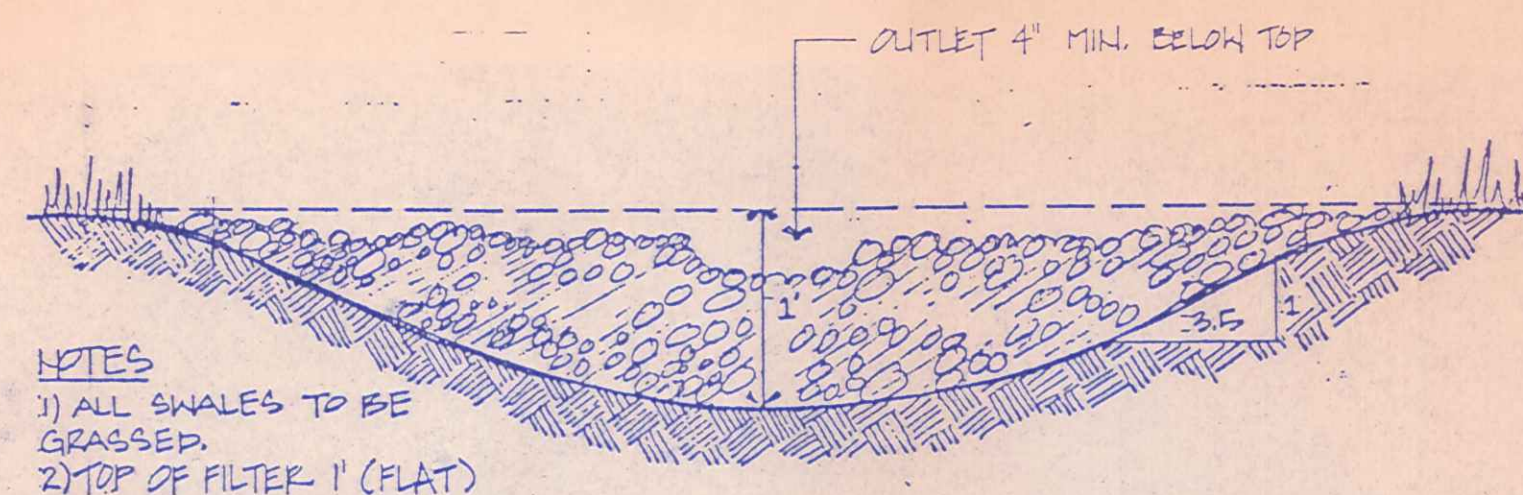
Graded Slopes and Fills - The angle for graded slopes and fills shall be no greater than the angle which can be retained by vegetative cover or other adequate erosion control devices or structures. In any event, slopes left exposed shall, within 30 working days of completion of any phase of grading, be planted or otherwise provided with ground cover, devices, or structures sufficient to restrain erosion.

Ground Cover - Whenever land-disturbing activity is undertaken on a tract comprising more than one acre, if more than one contiguous acre is uncovered a ground cover sufficient to restrain erosion must be planted or otherwise provided within 30 working days on that portion of the tract upon which further active construction is not being undertaken, provided that this subsection (C) shall not apply to cleared land forming the basin of a reservoir later to be inundated.

ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DEPENDING ON FIELD CONDITIONS.

SEEDBED PREPARATION NOTES:

1. Surface water control measures to be installed according to plan.
2. Areas to be seeded shall be ripped & spread with available topsoil 3" deep. Total seedbed prepared depth shall be 4" to 6" deep.
3. Loose rocks, roots and other obstructions shall be removed from the surface so that they will not interfere with establishment and maintenance of vegetation. Surface for final seedbed preparation, at finish grades shown, shall be reasonably smooth and uniform.
4. If No soil test is taken, fertilizer and lime to be according to seeding specifications above. In addition, provide 15 lbs/1000 SF of superphosphate.
5. If soil test is taken, provide lime & fertilizer according to soil test report.
6. Lime & fertilizer shall be applied uniformly and mixed with the soil during seedbed preparation.



2 SWALE W/STONE FILTER

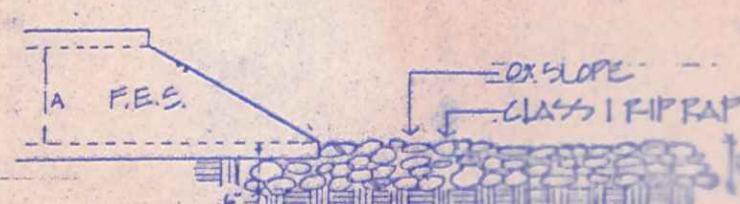
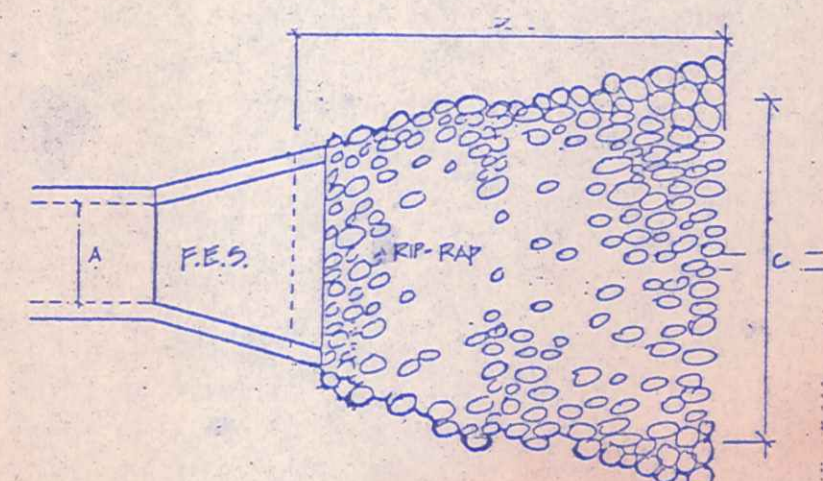
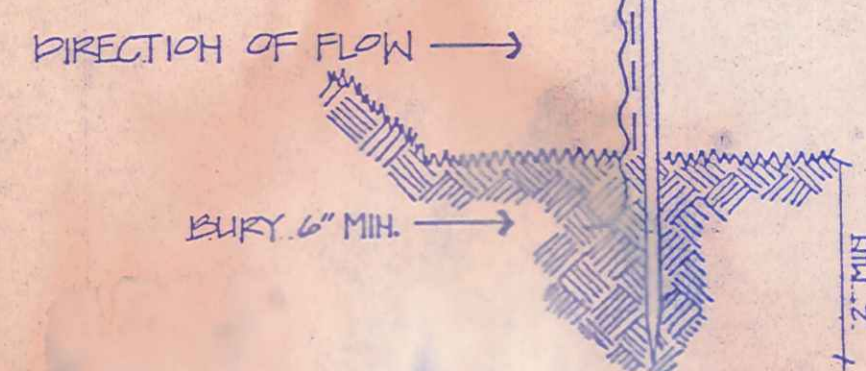


LEGEND

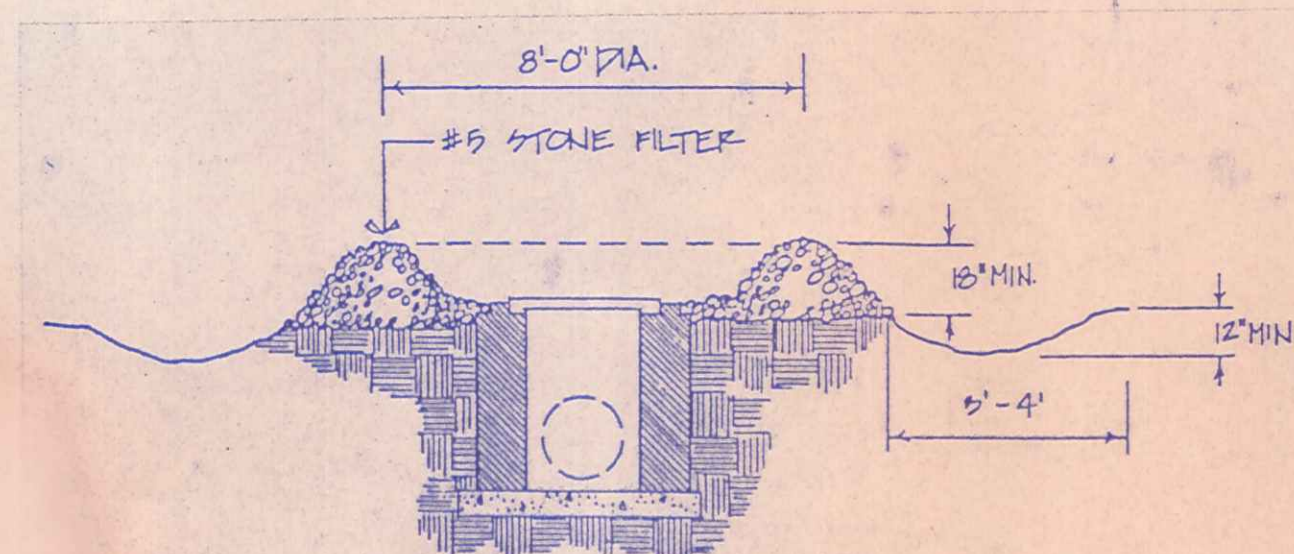
- SILT FENCE
- SWALE W/STONE FILTER
- FES W/RIP RAP OUTLET
- PROTECTED DRAINAGE INLET

SEDIMENTATION & EROSION CONTROL

WOODEN OR STEEL POST B'D.C.
2"x4"x4' WIRE
BURLAP OR MIRAFI.



3 F.E.S. W/RIP RAP OUTLET



PROTECTED DRAINAGE INLET

Land Design

DATE: **DECEMBER 20, 1985**

PROJECT NO.: *850725*

REVISIONS *2-12-85 NOTED & PREPARED*
CORRECTIONS REQUEST

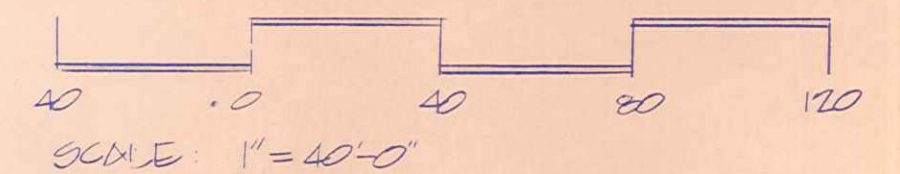
1701 East Boulevard, Charlotte, NC 28203 704/333-0325
1216 Prince Street, Alexandria, VA 22314 703/549-7784

Land Design
Landscape Architecture Land Planning

SHEET NO. **2**
OF **7**



CLEARING PLAN



Date: **DECEMBER 20, 1985**

Revisions: **ALL SKETCHES & PARKING**
CROSSED OUT HEREON REQUEST.

LAND DESIGN, INC.

Landscape Architects

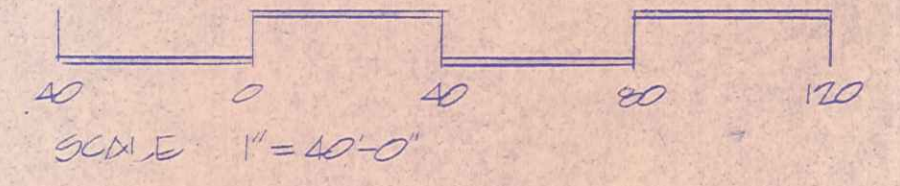
1701 East Boulevard
Charlotte, N.C. 28203
704-333-0325

Project No. **2015-20**

Sheet No. **3** of 7



HORIZONTAL CONTROL



Date: **DECEMBER 20, 1985**

Revisions: 1. SET 7A 1985 PHASE LINE
 11-18-85 REVERSED LOCATION OF BUILDING 1
 ADDRESS NOTED & PARKING SPACES OWNERS
 REQUEST.

LANDDesign, INC.

Landscape Architects

1701 East Boulevard
 Charlotte, NC 28203
 704 333 0325

Project No. **8507D**

Sheet No. **4** of 7

STORM DRAINAGE DESIGN DATA SHEET

PROJECT	Portside Phase II		COMPUTED BY		Bryan Helt	DATE	Dec. 13, 1985	
LOCATION	Davidson, NC		CHECKED BY		Ed Schweitzer	SHEET	OF	
STORM FREQUENCY			10		YEAR			
LOCATION	AREA		INTENSITY		Q + CIA		PIPE	
FROM	TO	SUB TOTAL	C	H	L	OFS	N	SLOPE
CB#1	CB#2	1.55	.8		6.3	7.86	.012	.05 36" 15'
CB#2	CB#3	0.18	1.74	.8	6.3	8.77	.012	.054 36" 15'
CB#5	CB#4	.07	.8		6.3	0.35	.012	.05 30" 15'
CB#4	CB#3	1.16	1.23	.8	6.3	6.20	.012	.068 72" 15'
CB#3	PES#6	2.07	.8		6.3	14.79	.012	.005 120' 24" 5.3
Rip Rap Outlet 7'x1'								

STORM DRAINAGE SCHEDULE

Structure	Rim Elev.	Invert Elev.	Pipe Out	Slope
#1	75.50	69.80	36"-15" RCP	5.0%
#2	74.00	68.00	138"-15" RCP	5.4%
#3	64.75	60.60	120"-24" RCP	0.5%
#4	72.50	65.50	72"-15" RCP	6.8%
#5	71.50	67.00	30"-15" RCP	5.0%
#6		60.00	00	0

LEGEND

EXISTING CONTOURS	
PROPOSED CONTOURS	
PROPOSED GRT ELEV.	
BREAK POINT	
DIRECTION OF DRAINAGE	
DRAINAGE STRUCTURE & PIPE	
BRIDGE ACROSS SLOPE	
PIPE ELEV. SCALE	
CONCRETE RETAINING WALL	
TIMBER RETAINING WALL	
TOP OF WALL ELEVATION	
STEPS	
EXISTING TREES TO REMAIN	
BUILDING NUMBER	
FINISHED FLOOR ELEV.	

FINE GRADING

DATE: **DECEMBER 20, 1985**

PROJECT NO.: **2592**

REVISIONS: **FOR THE BIDDING**

REVISED ON NUMBER REQUEST

1701 East Boulevard, Charlotte, NC 28203 704/333-0325

1216 Prince Street, Alexandria, VA 22314 703/549-784

Land Design

Landscape Architecture Land Planning

SHEET NO: **5**

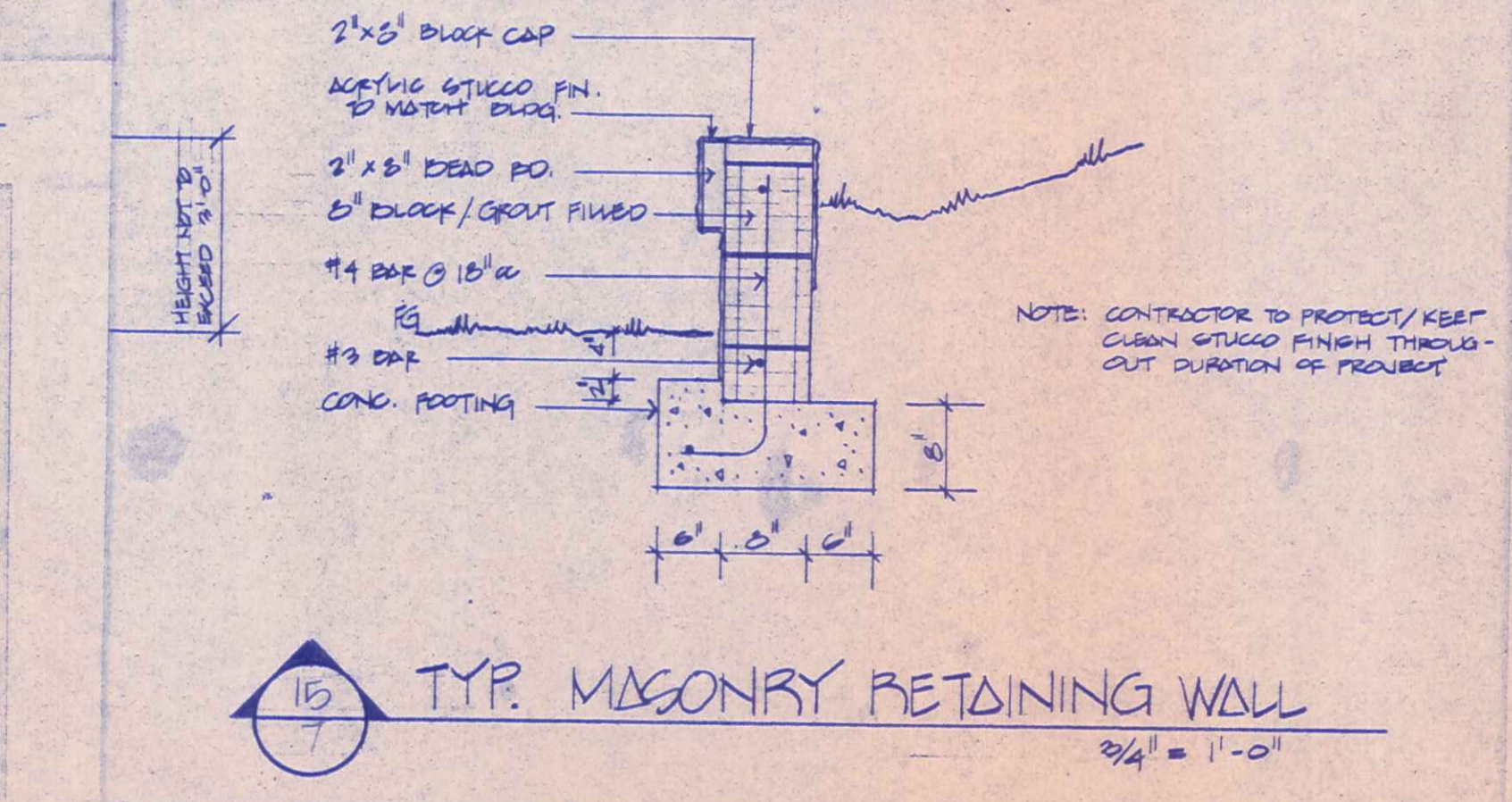
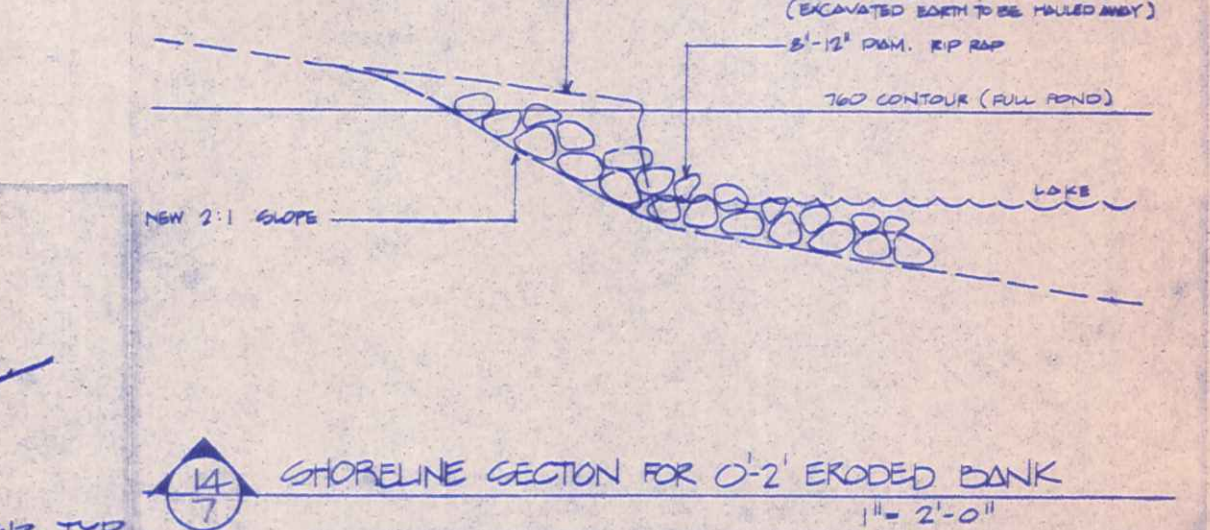
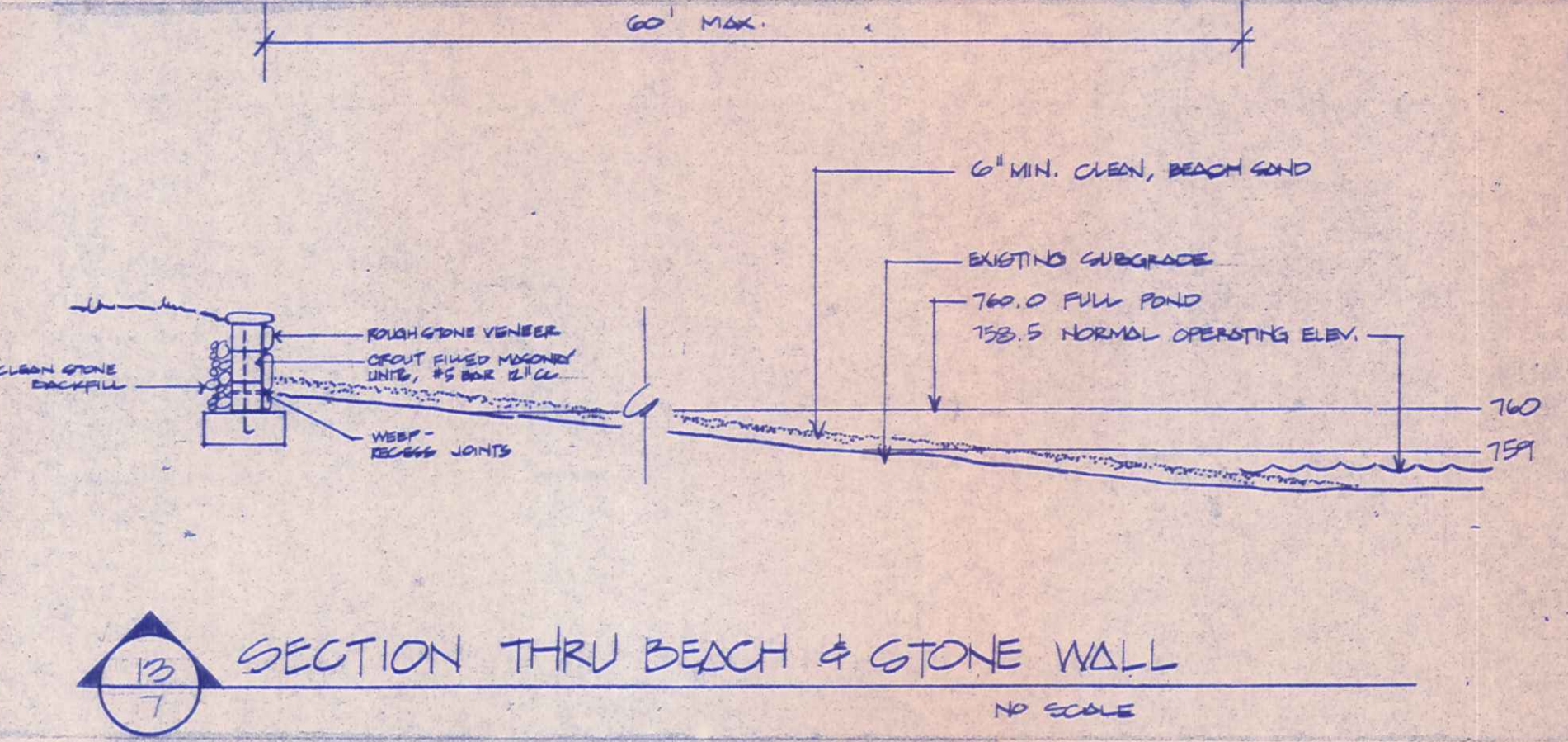
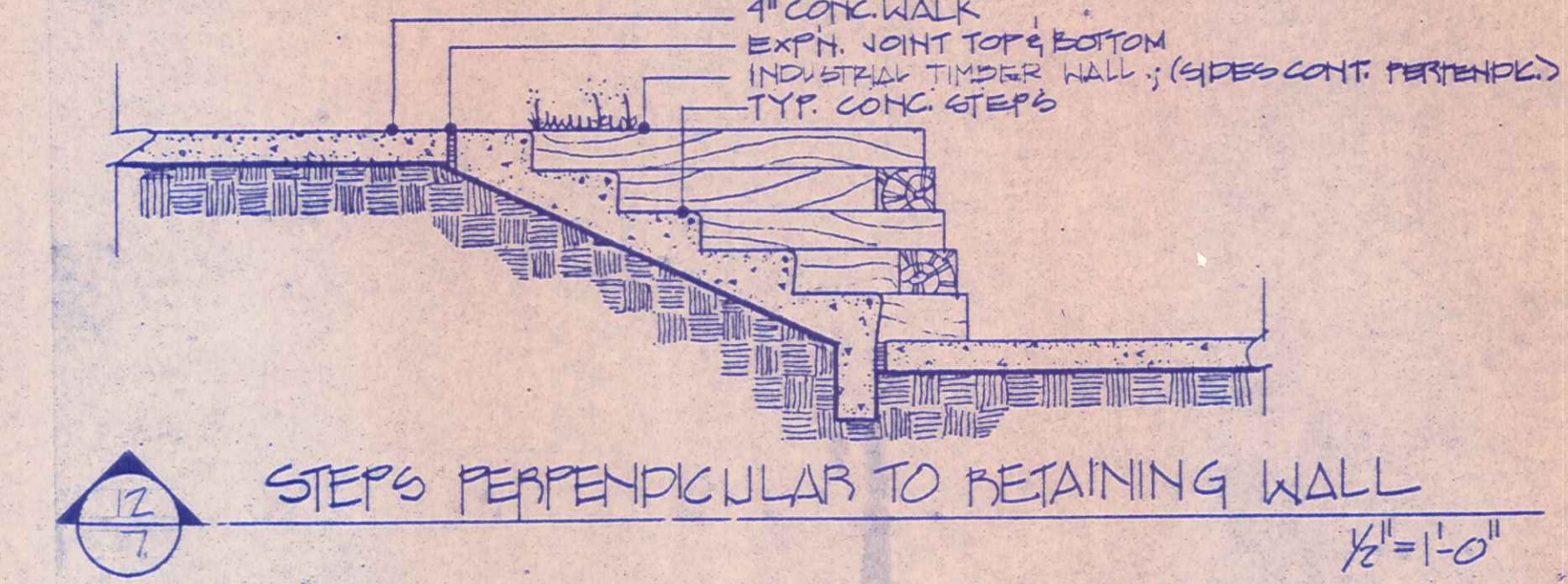
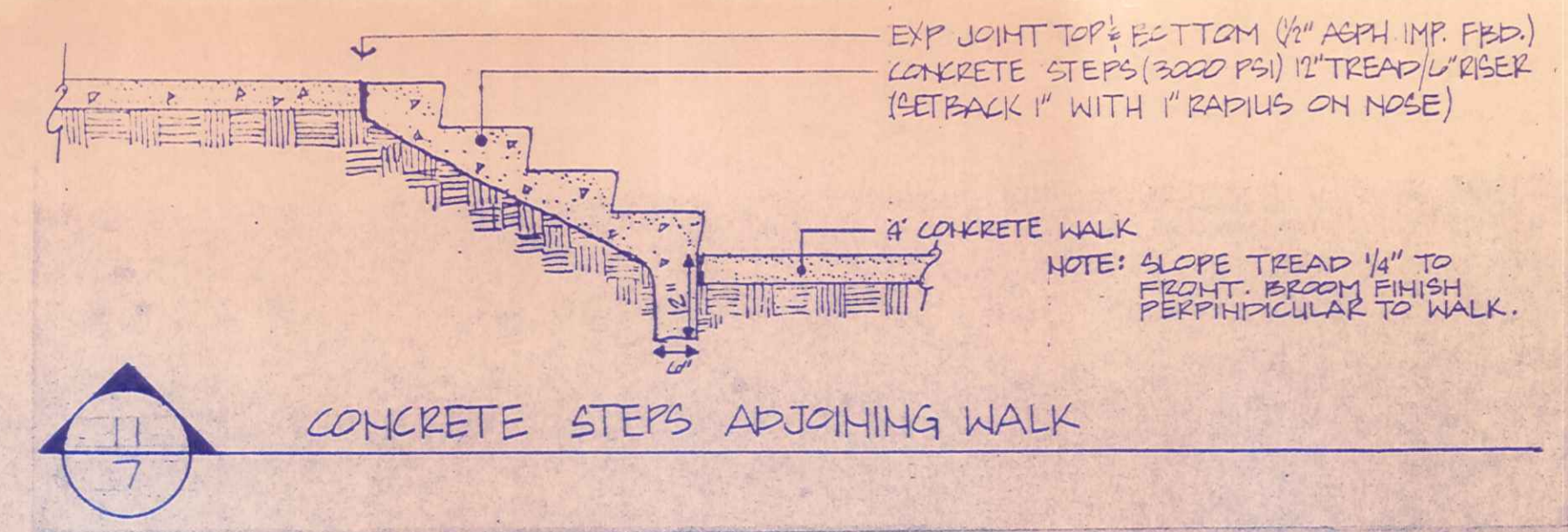
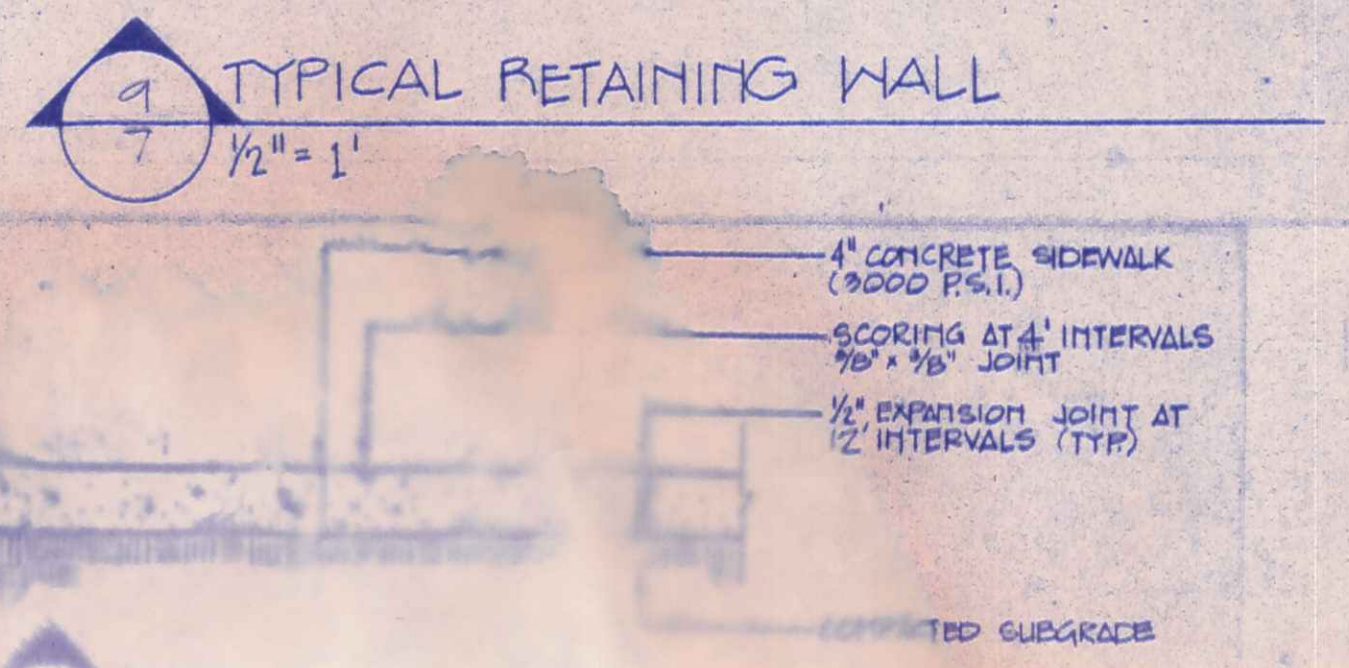
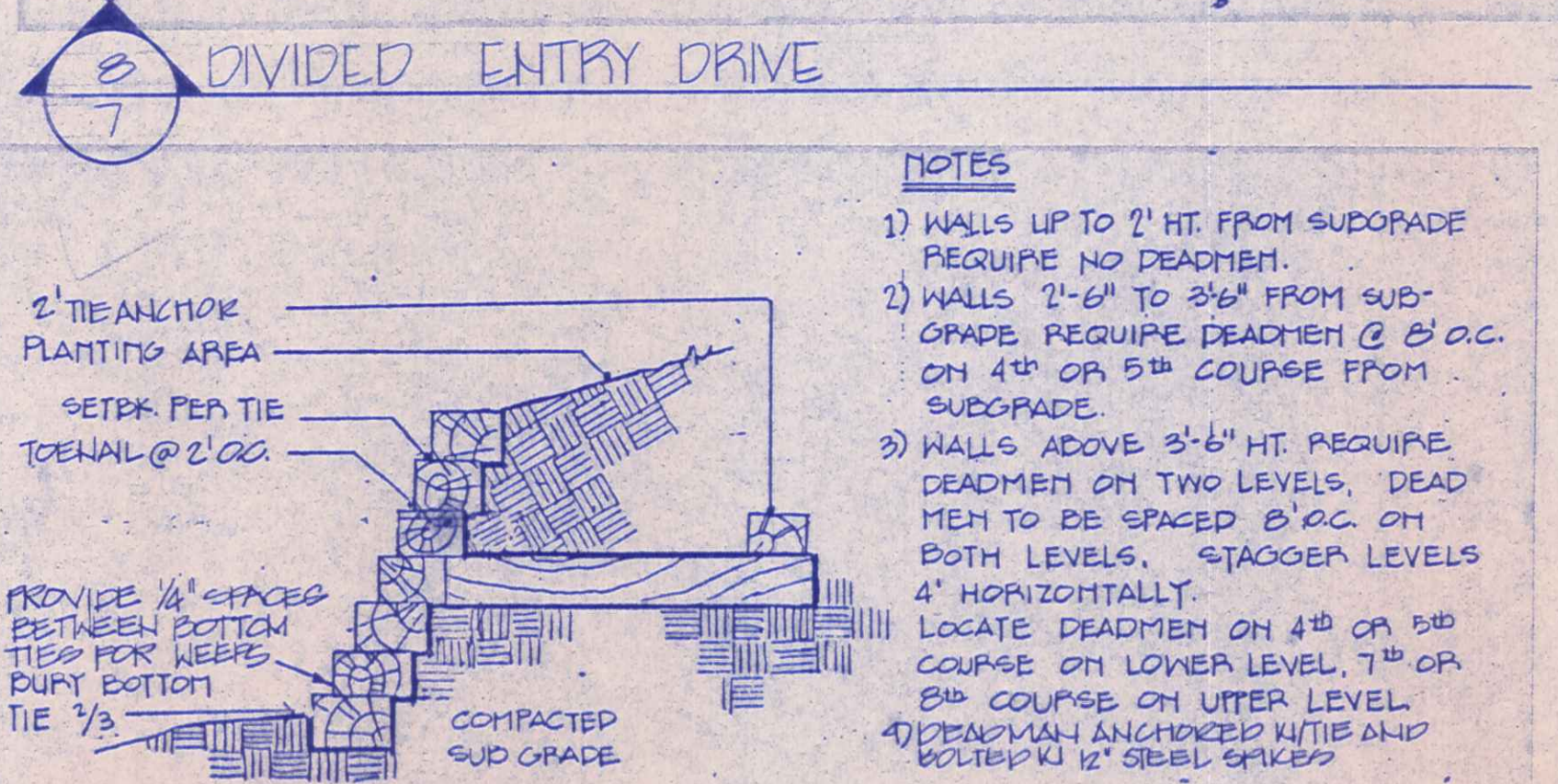
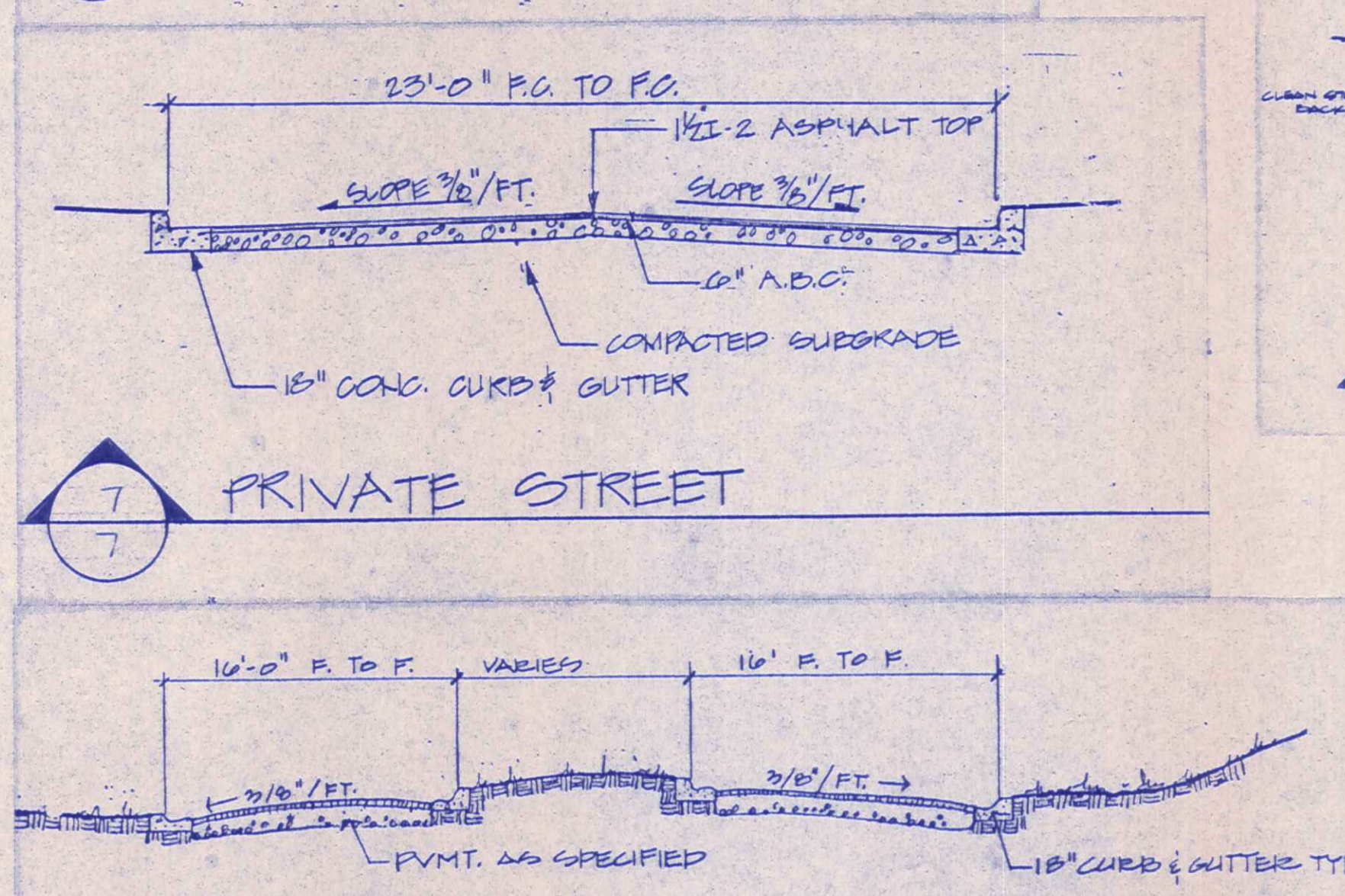
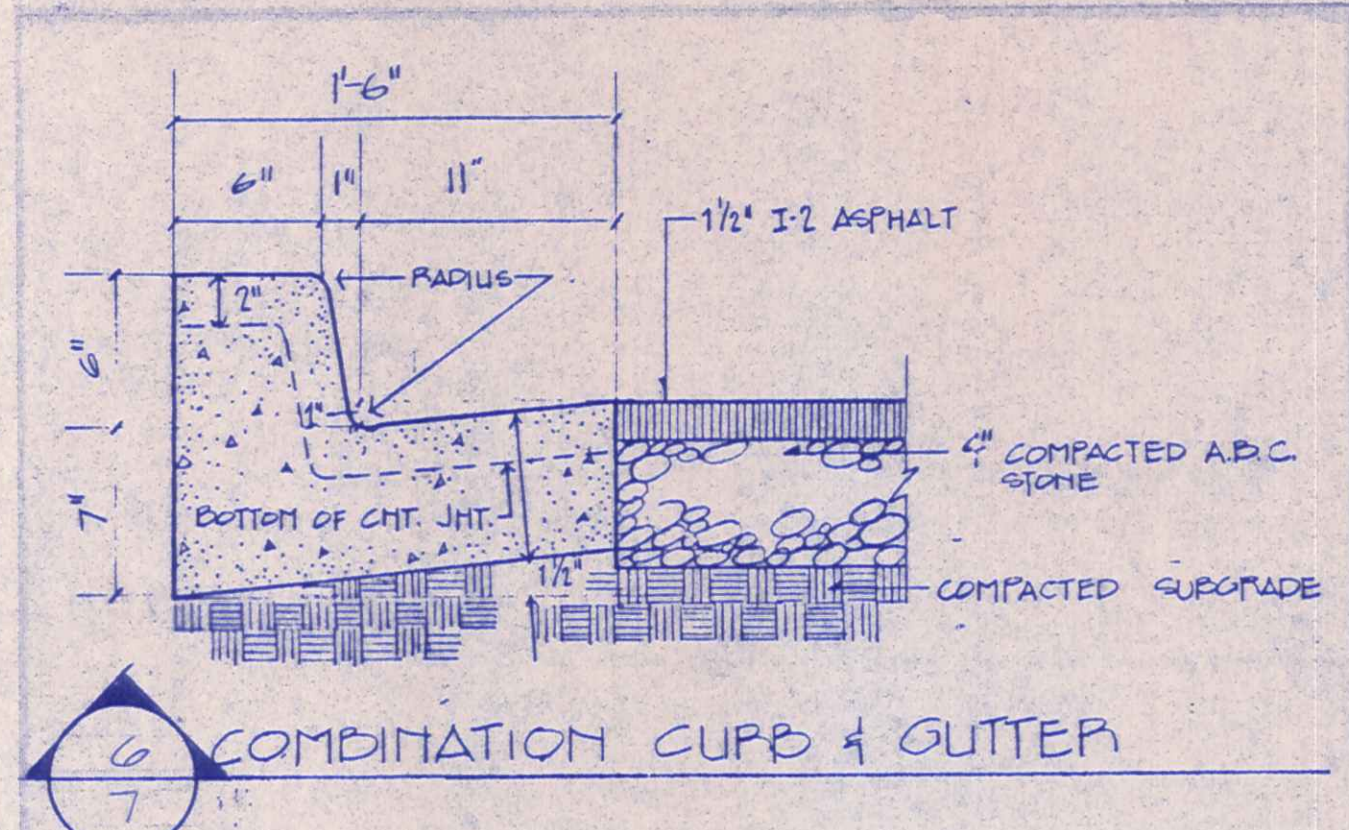
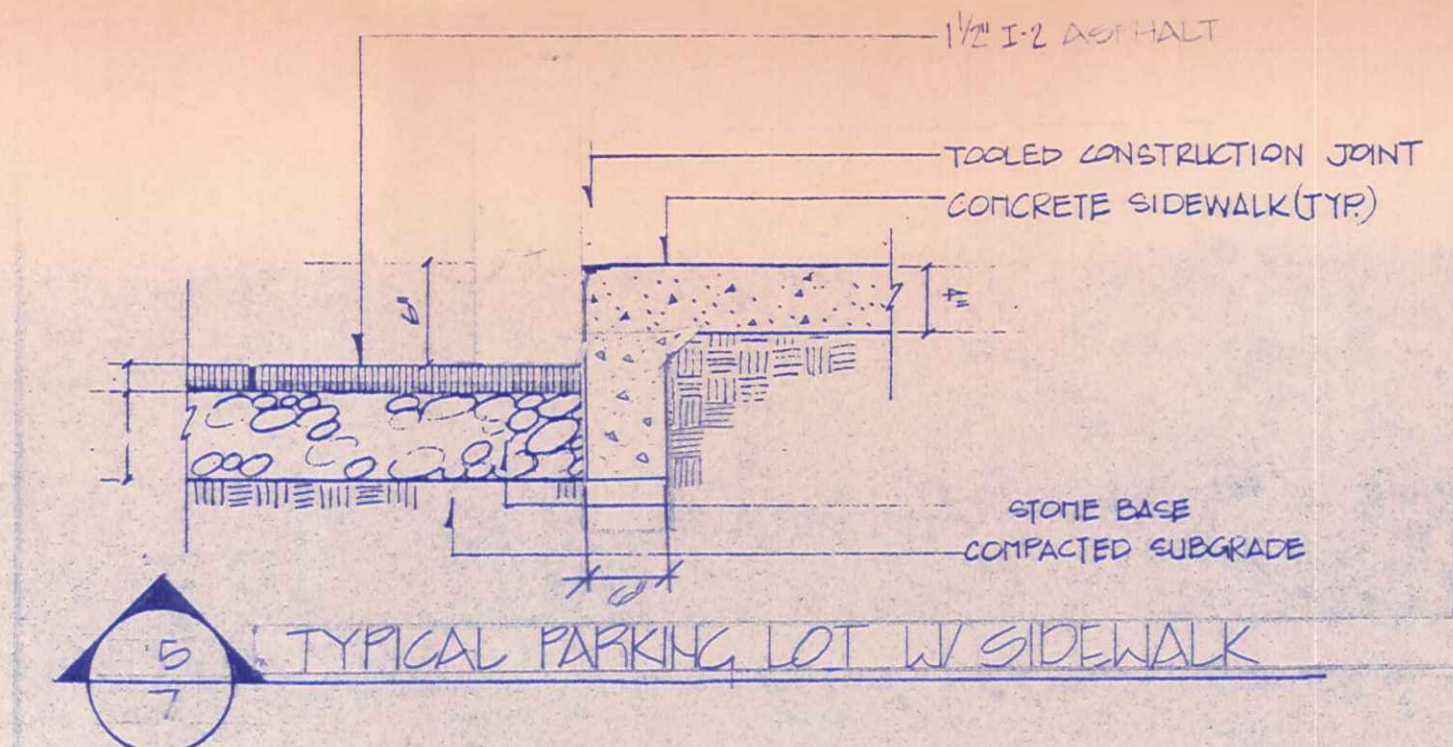
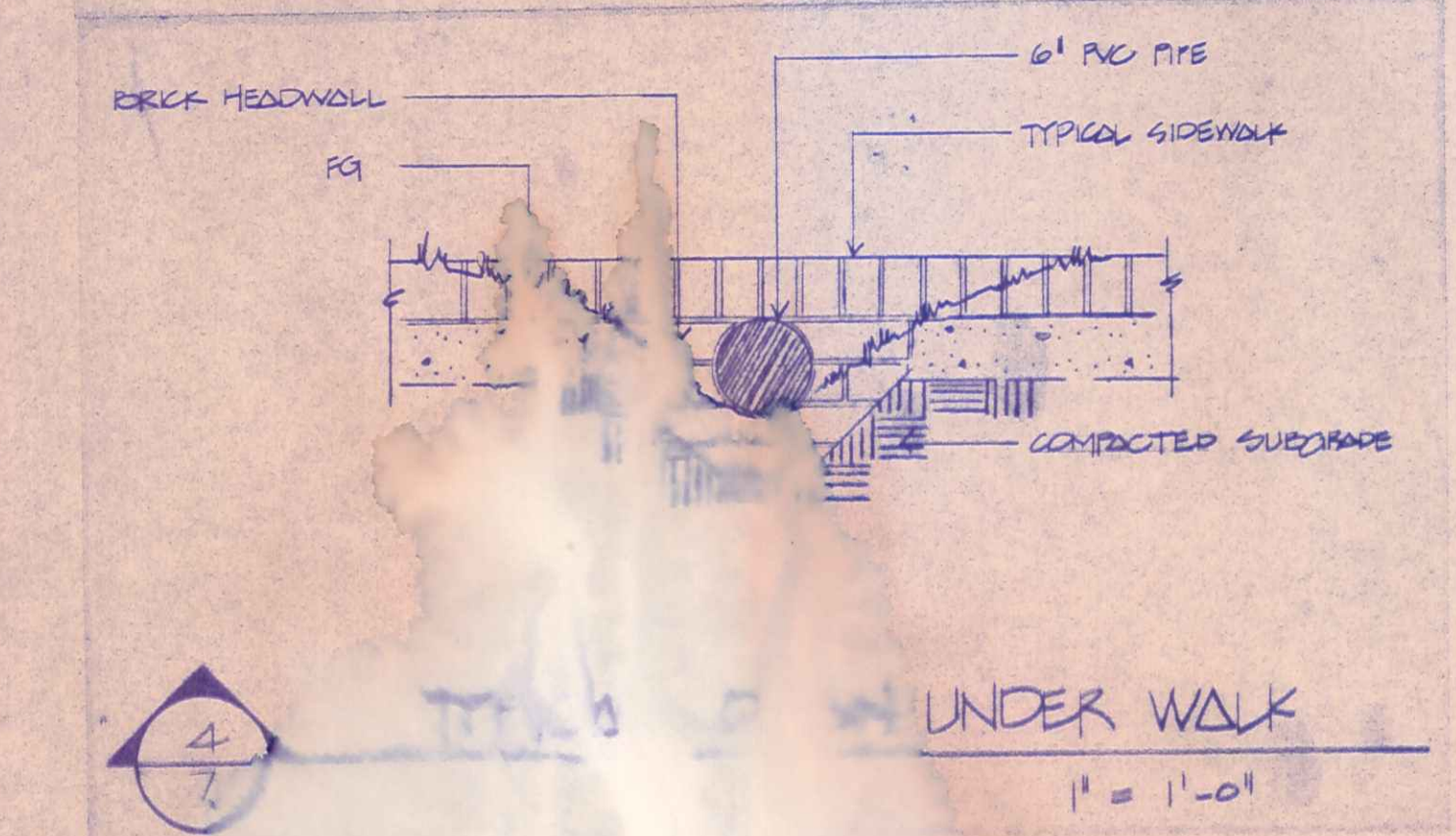
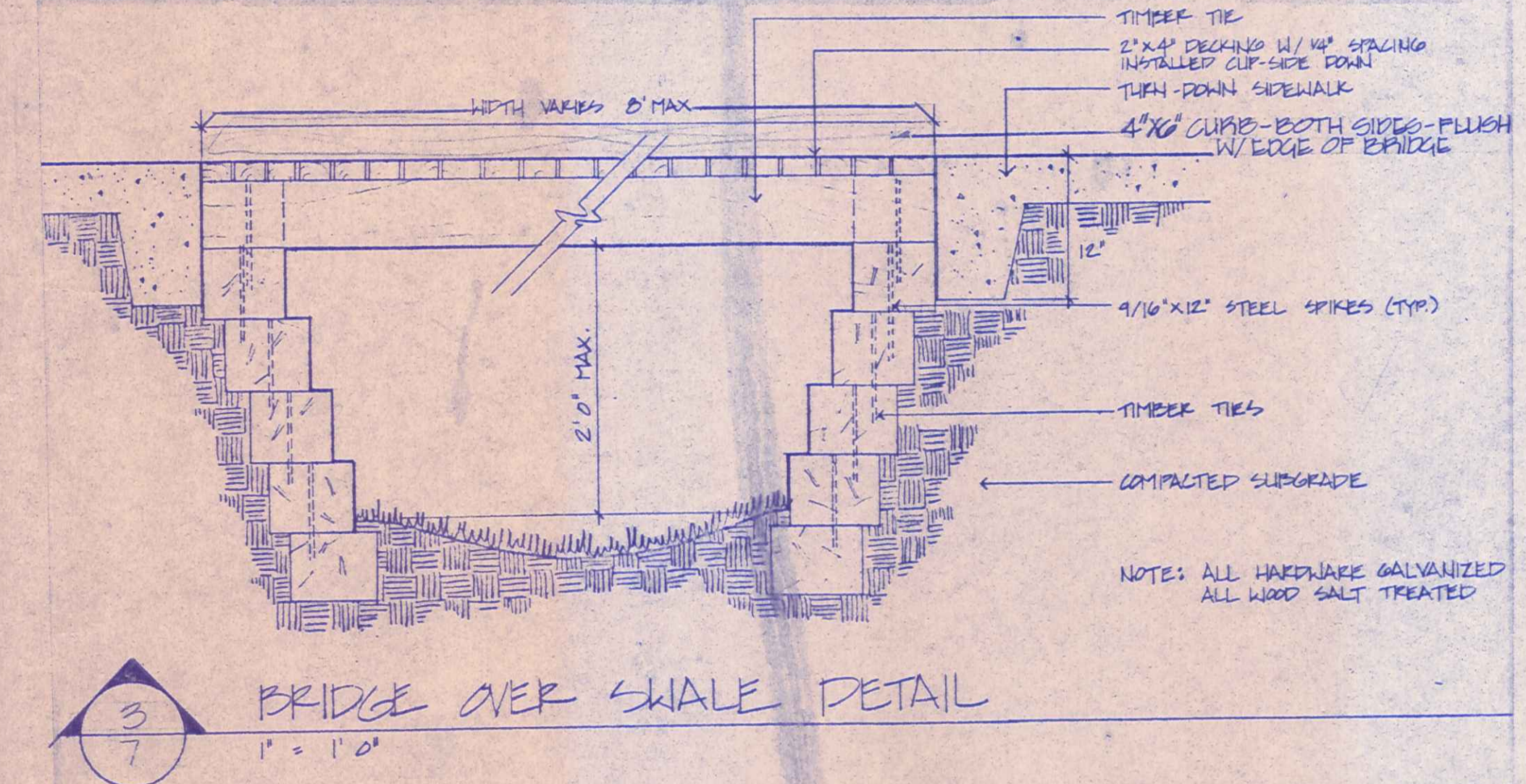
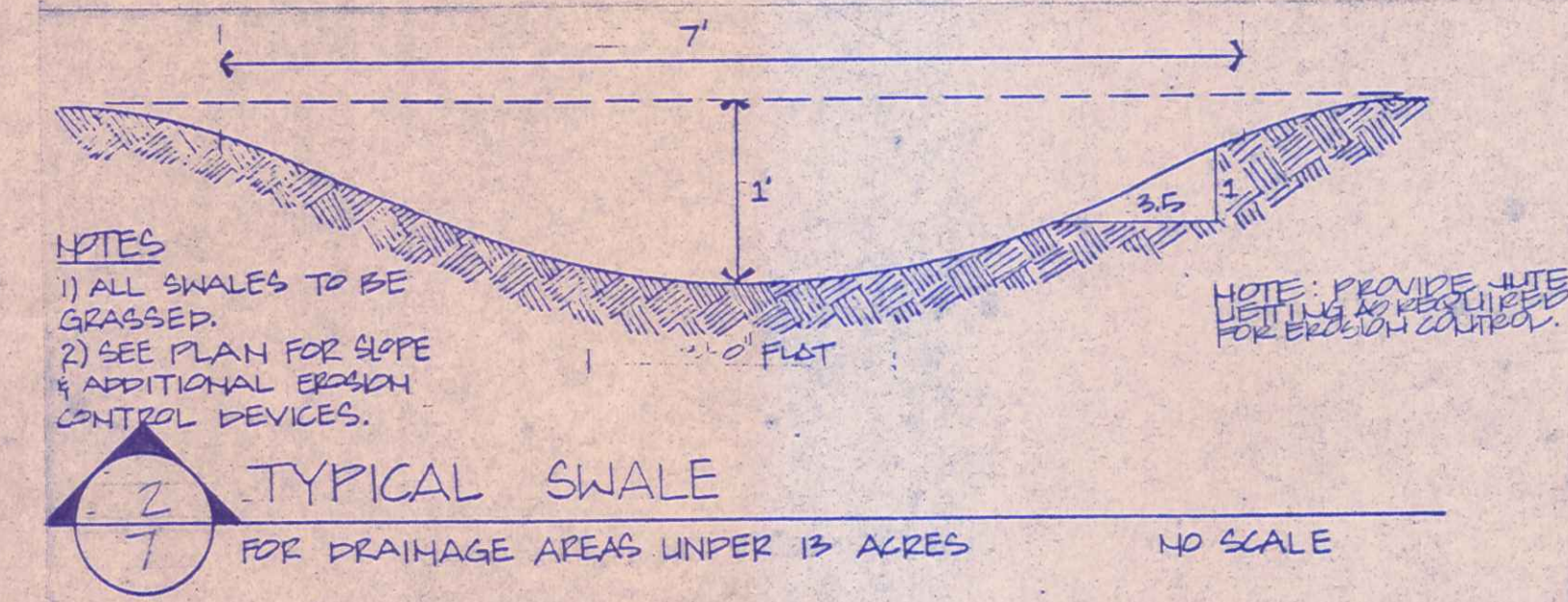
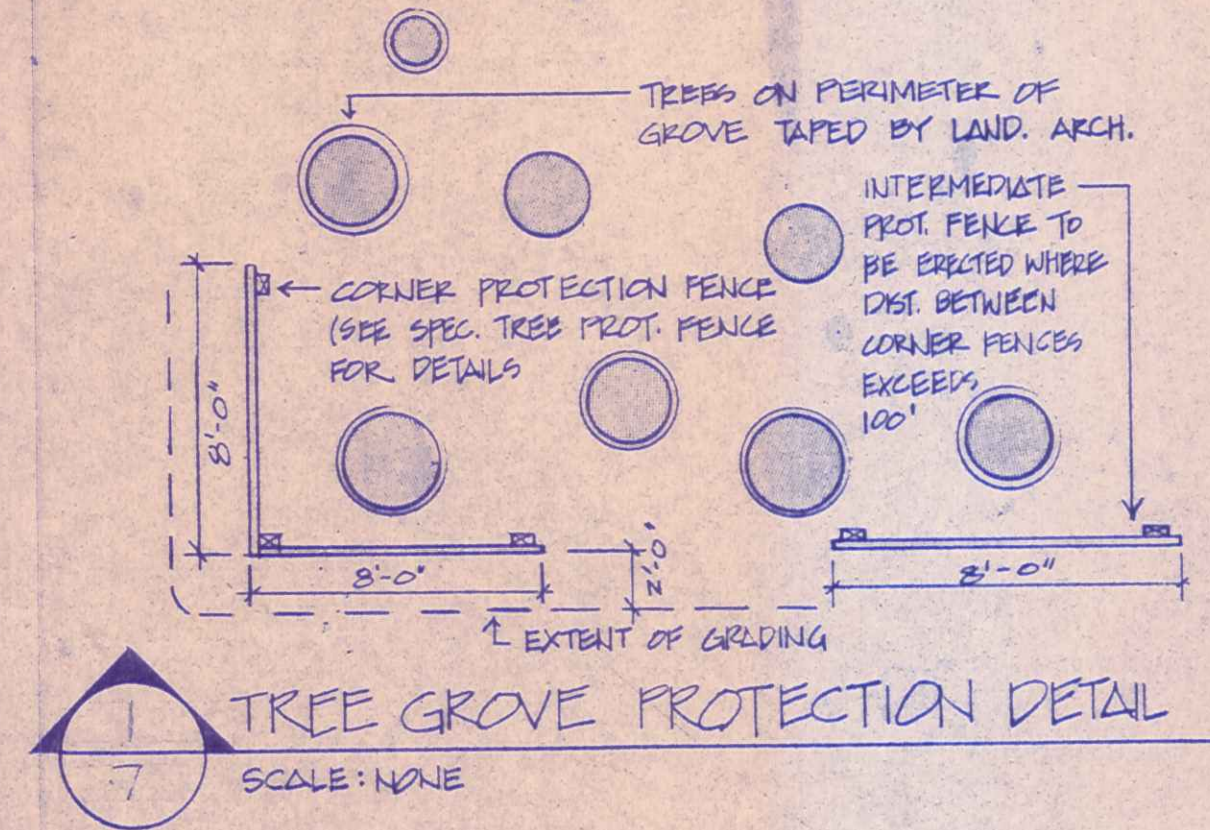
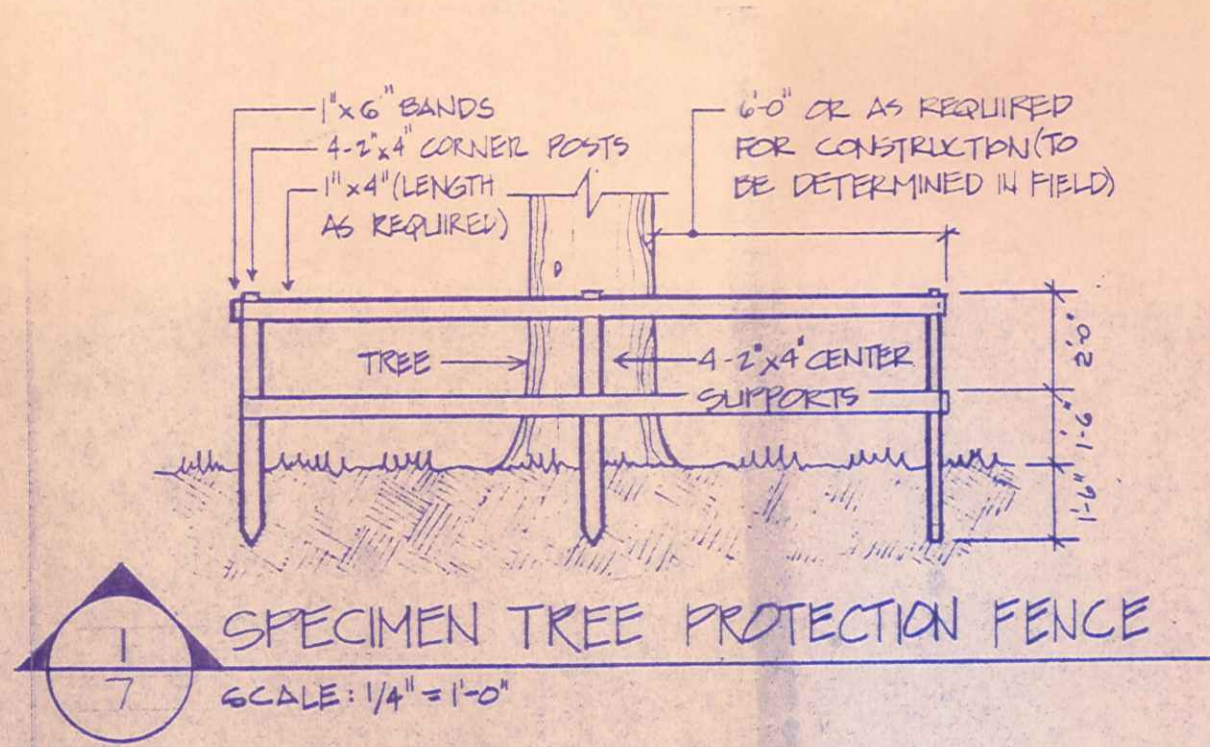
OF **7**

UTILITY PLAN

LANDDesign, INC.

Project No. 8452





DETAILS

Date: **DECEMBER 20, 1985**
Revisions: *REV. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100*

LandDesign, Inc.

Landscape Architects

1701 East Boulevard
Charlotte, NC 28203
704 333 0325

Project No. *SEED*
Sheet No. **7** of 7

