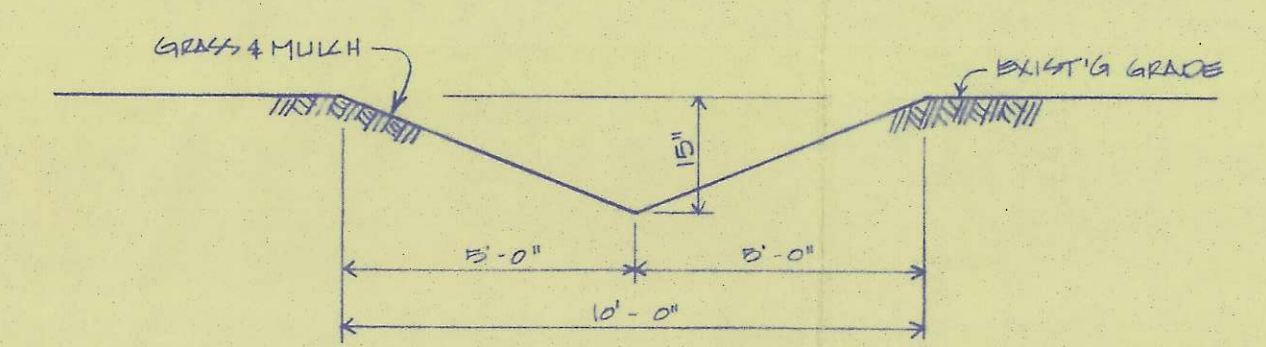
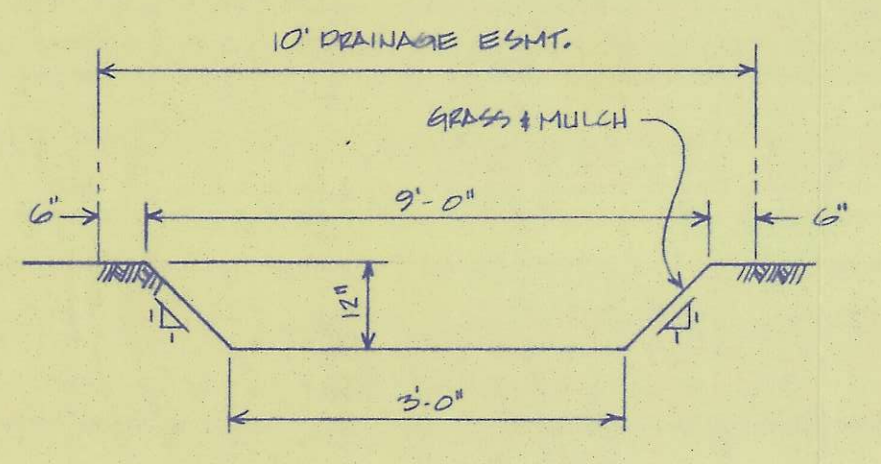


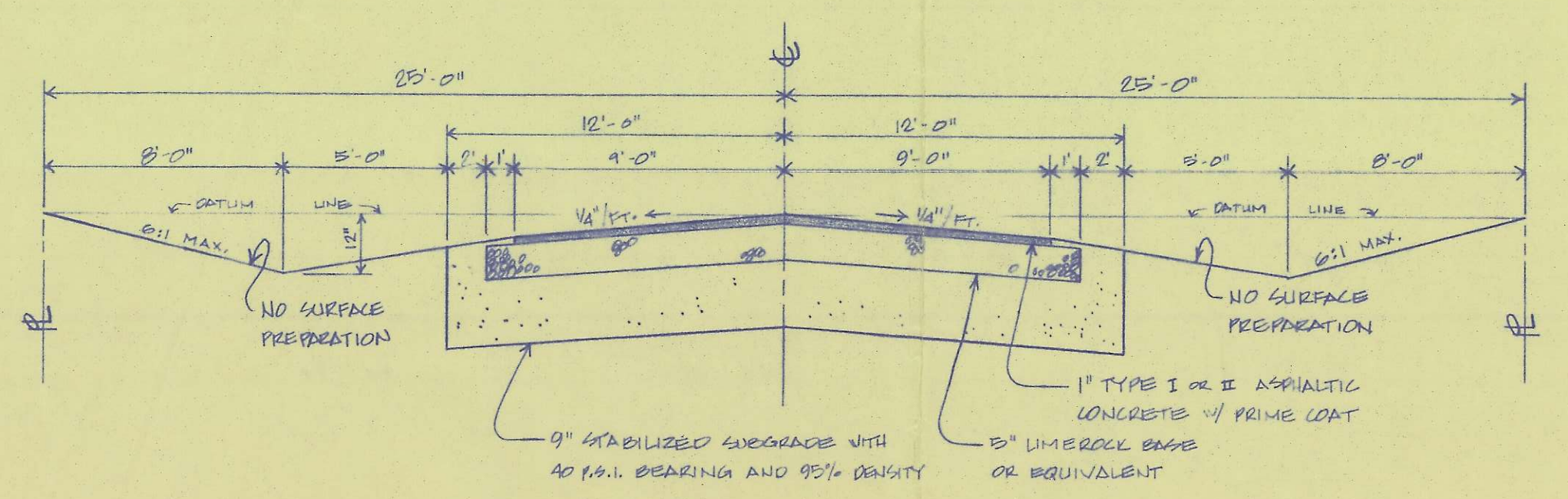
1 PAVING AND DRAINAGE PLAN
SCALE 1"=100'



2 TYPICAL OFF-SITE DRAINAGE DITCH
N.T.S.



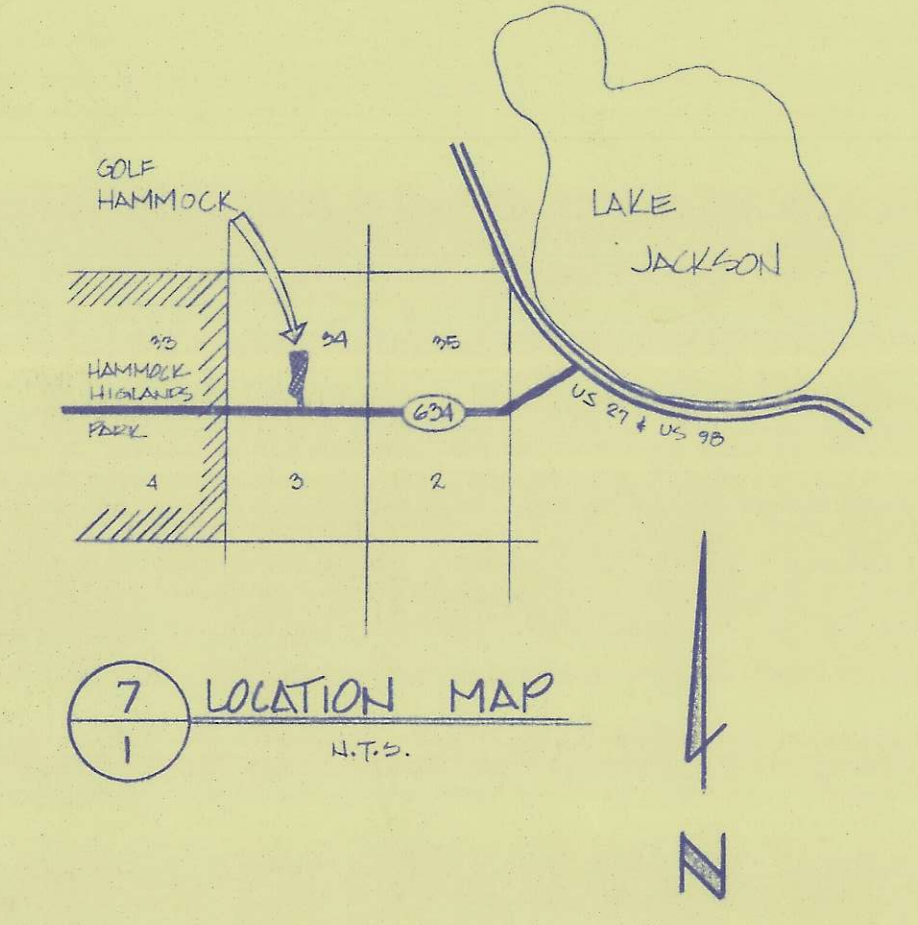
3 TYPICAL ON-SITE DRAINAGE DITCH
N.T.S.



4 TYPICAL PAVEMENT CROSS-SECTION
N.T.S.

5 LEGEND

- $M_{100.0}$ EXISTING ELEVATION, M.S.L.
- $M_{150.0}$ PROPOSED ELEVATION, M.S.L.
- $2\frac{1}{2}\% \text{ to } 20\%$ PROPOSED PAVEMENT, DIMENSION AND SLOPE
- EXISTING PAVEMENT
- DIRECTION OF OVERLAND DRAINAGE
- (3) DETAIL NUMBER
- (2) PAGE NUMBER



6

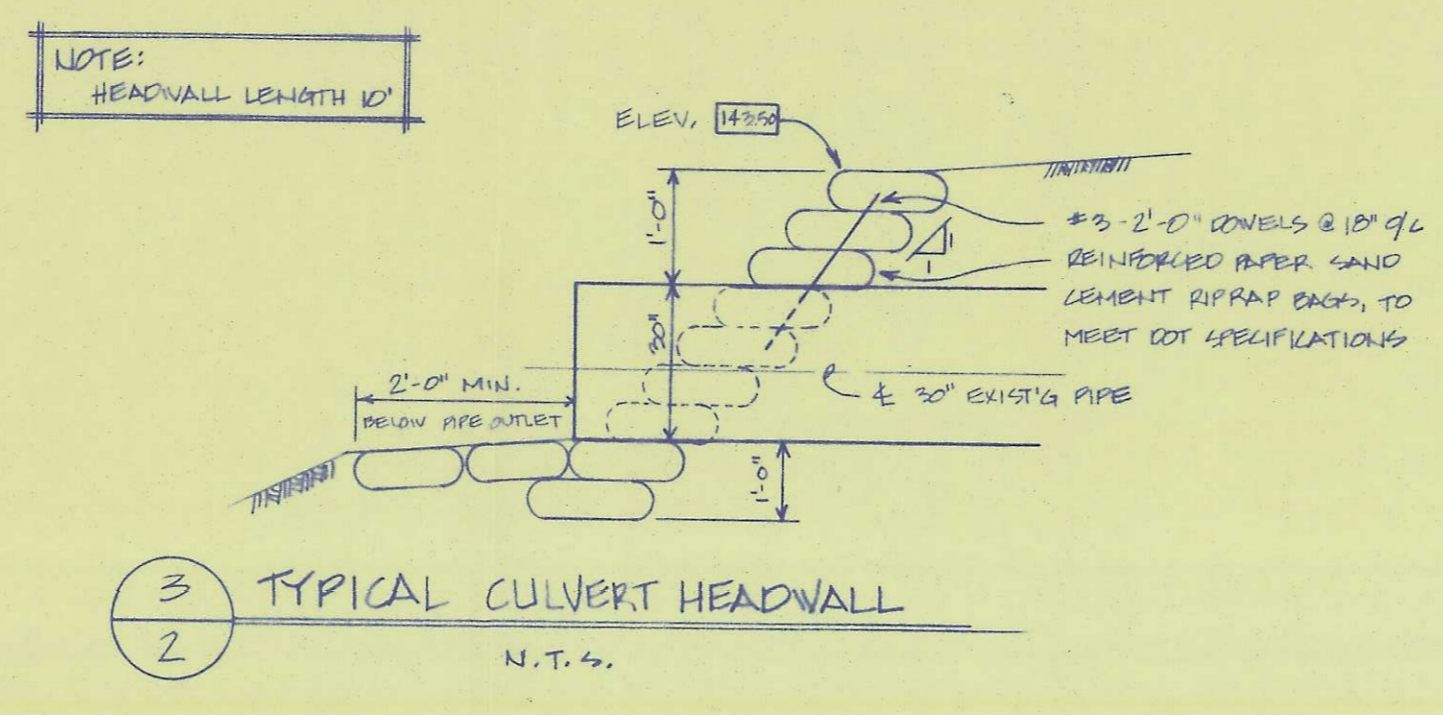
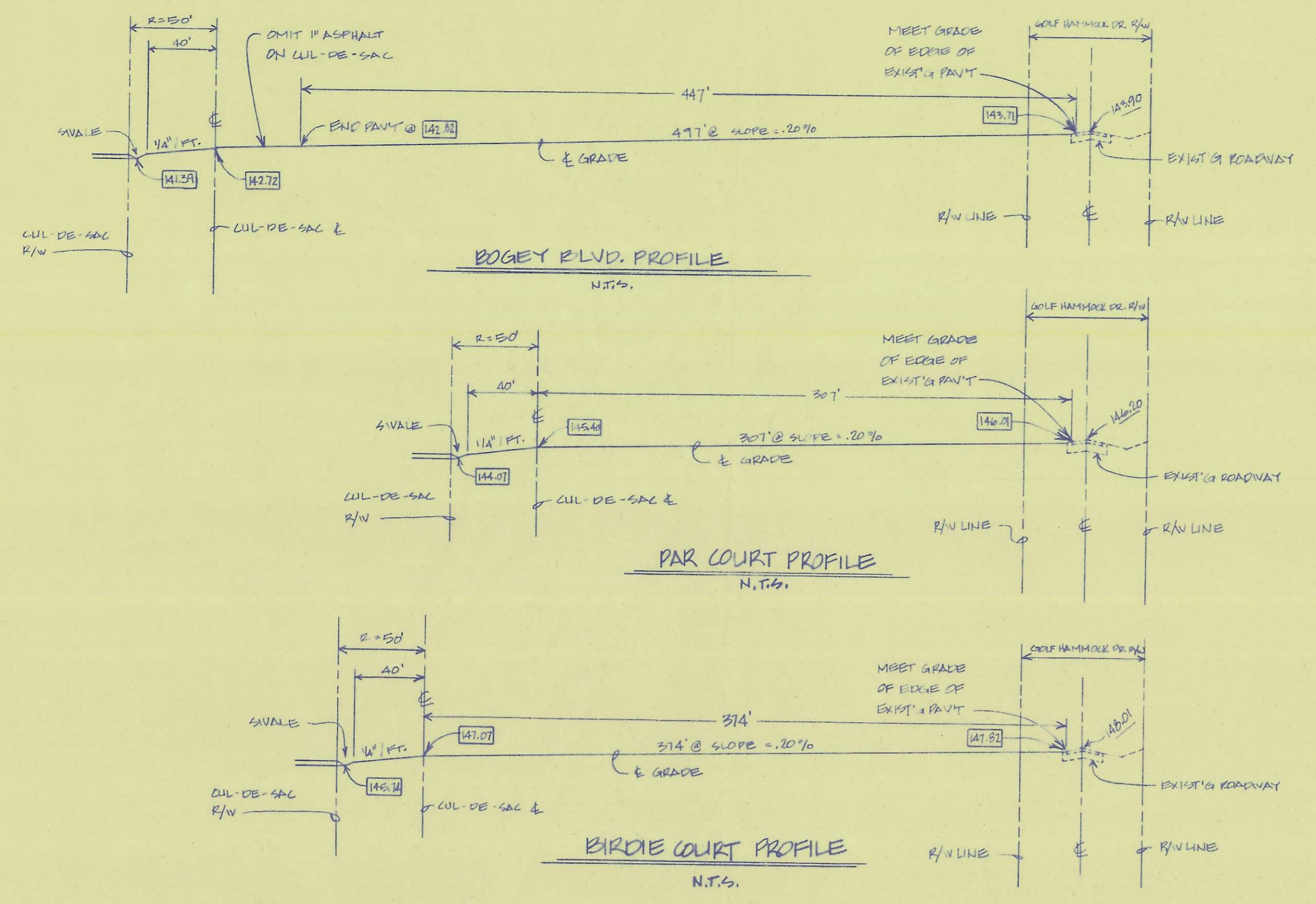
1 SPECIFICATIONS

- A. All materials and workmanship shall conform to current Highlands County Specifications.
- B. Roadway locations shall be cleared of all vegetation prior to compaction of the subgrade. All tree stumps shall be removed to a depth of 12" below the subgrade.
- C. Gumbo and other plastic clays shall be removed to a depth of 12" below the subgrade and horizontally to the ditch slope.
- D. Muck shall be completely removed within the limits of two lines 5 feet outside of the pavement edges.
- E. Fill sections shall be constructed in 12" maximum lifts to provide 90% density (Fla. bearing value).
- F. Base material used shall be suitable to the County Engineer.
- G. Prime coat shall consist of .15 gallon (RC-1) per square yard covered with .15 cubic feet of clean sand per square yard and shall be traffic rolled.
- H. All materials used for roadway construction shall meet Florida Department of Transportation current specifications.
- I. Contractor shall notify the Engineer of Record prior to commencing work and also after completion for schedule of a final inspection.

OFFICE COPY
APPROVED
1-27-77
RECEIVED

STREET AND STORM WATER DRAINAGE PLAN GOLF HAMMOCK, SEBRING	
FOR: AMERICAN HOME SERVICE CORP.	
ROBERT H. MILLER AND ASSOCIATES, ENGINEERS 4431 S.W. 64TH AVE., FT. LAUDERDALE, FLORIDA 33514	
APPROVED: <i>Robert H. Miller</i> P.A. REG. NO. 10408	
PROJECT NO. 0771-77	
JAN 26 1977	JANUARY 6, 1977
BOARD OF COUNTY COMMISSIONERS COUNTY ENGINEER HIGHLANDS COUNTY, FLORIDA	SHEET 1 OF 2
REVISIONS	

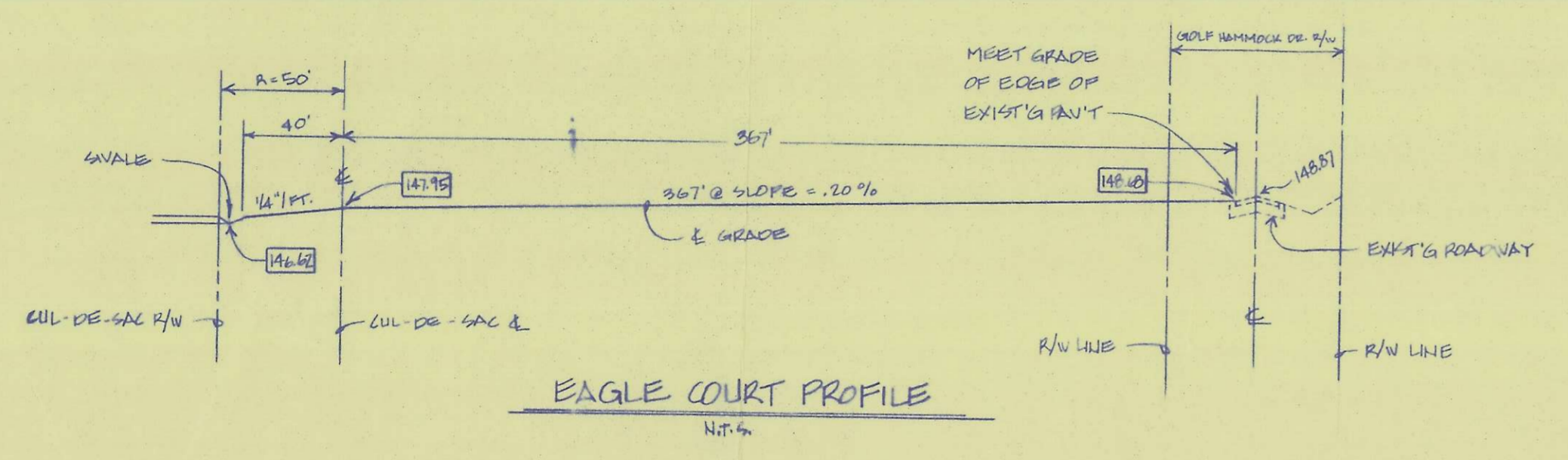
GOLF HAMMOCK - UNIT 1 - DRAINAGE



1. 2 SHEETS, EACH 24" x 36"
2. SEE TITLE BLOCKS
3. SEE APPROVED PLAN BY H. DALE THOMAS, P.E.
4. SEE
5. SEE AND #1 & #2
6. SEE AND #1
7. SEE
- 8a. SEE
- 8b. SEE AND
- 8c. SEE AND
- 9a. SEE AND
- 9b. SEE AND
- 9c. SEE #3
- 9d. SEE AND
- 9e. SEE
- 9f. N/A
- 9g. SEE AND
- 9h. SEE AND
- 9i. SEE AND
- 9j. SEE AND
- 9k. SEE AND
- 9l. SEE #4
- 9m. SEE
- 9n. SEE #5
- 9o. SEE
- 9p. SEE
- 9q. thru 9r. N/A
- 9s. SEE AND
- 9t. thru 9aa. N/A
- 9bb. SEE
- 9c. thru 10c. N/A

NOTES:

1. All elevations existing and proposed are based on USC and GS mean sea level datum, M.S.L.
2. Existing ground elevations are shown on the plan as contour intervals.
3. This subdivision shall in the future receive no drainage runoff from any other areas.
4. Structures have no conflicts with existing utilities.
5. All underground utilities shall be installed prior to placement of the road base.
6. Utility poles shall be no less than 6' from the edge of any road pavement.



DRAINAGE AREA DISCHARGE:

Area	Pervious Area (C=.10)	Impervious Area (C=.80)	Time of Conc.	Intensity	Cumulative Discharge (CFS)
I	5.00	0.80	24	3.9	4.4
II	5.11	0.69	26	3.8	8.4
III	4.65	0.65	31	3.5	11.1
IV	5.94	0.76	33	3.4	14.9
V	0.17	0.13	6	5.8	0.7

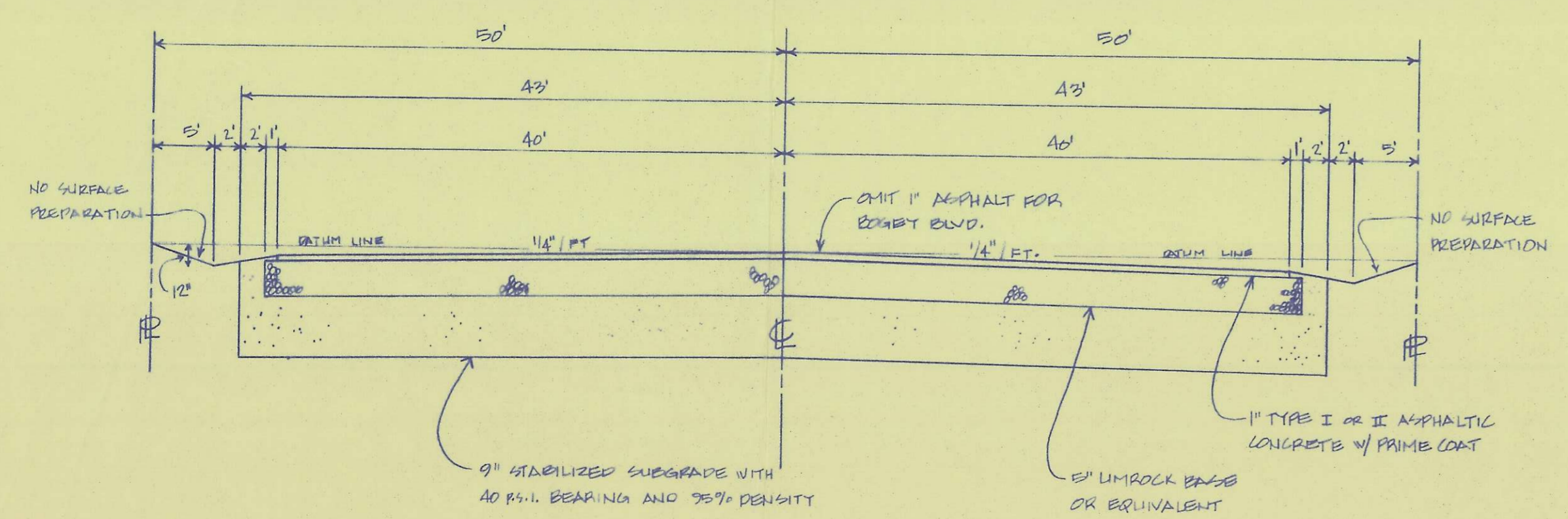
- CAPACITIES:
1. Roadway swale flow capacity--0.82' depth and 14.6' width, n=.030, mean slope=.002, capacity = 8.2 CFS, and velocity = 1.5 FPS.
 2. On-site drainage ditch flow capacity-- 1.00' deep, bottom width 3' and top width 9', n = .030, mean slope = .002, capacity = 7.9 CFS and velocity = 1.8 FPS.
 3. Off-site drainage ditch flow capacity -- 1.25' depth and 10' width, n=.030, mean slope = .0026, capacity = 20.9 CFS and velocity = 2.5 FPS.
 4. SR 634 ditch flow capacity -- 4' depth, 4' bottom width, 18' top width and 1:2 bank slopes, n = .030 (when properly maintained), mean slope unknown, capacity = 78 CFS estimated.

- CONCLUSIONS:
1. Maximum flow through on-site drainage ditch = 4.4 CFS.
 2. On-site drainage ditch capacity = 7.9 CFS, therefore is capable of carrying maximum discharge.
 3. Maximum flow through off-site drainage ditch = 14.9 CFS.
 4. Off-site drainage ditch capacity = 20.9 CFS therefore is capable of carrying total cumulative discharge.
 5. Maximum flow through roadway swale (Area IV = worst condition) = 3.0 CFS.
 6. Roadway swale capacity = 8.2 CFS therefore is capable of carrying maximum discharge in this subdivision.

- REFERENCES:
1. DOT Drainage Design Manual
 2. Data Book for Civil Engineers-- Design, Seelye
 3. Sewerage and Sewage Treatment, Babbitt and Baumann
 4. Highway Engineering, Ritter and Paquette
 5. Standard Handbook for Civil Engineers, Merritt
 6. Highlands County Subdivision Regulation, Ordinance No. 73-3

1 ROAD PROFILES
2

2 TYPICAL CUL-DE-SAC CROSS-SECTION
2



PAVING AND DRAINAGE DETAILS
GOLF HAMMOCK, SEBRING

FOR: AMERICAN HOME SERVICE CORP.

ROBERT H. MILLER AND ASSOCIATES, ENGINEERS
4431 S.W. 64TH AVE. FT. LAUDERDALE, FL 33314

APPROVED: Robert H. Miller

FLA. REG. NO. 10908

PROJECT NO. 077.1-77

ANUARY 6, 1977

SHEET 2 OF 2

RECEIVED
JAN 26 1977
BOARD OF COUNTY COMMISSIONERS
COUNTY ENGINEER
HIGHLANDS COUNTY, FLORIDA