DRIVEWAY CULVERTS

STRUCTURE	AREA (AC)	C	Tc (MIN)	I(25) (IN/HR)	Q(25) (CFS)	DIAMETER (IN)
1-1	6.50	.454	20.92	4.486	13.2	18
1-2	15.40	.421	24.98	4.110	26.6	24
2-1	6.30	.454	19.66	4.602	13.2	18
2-2	13.50	.417	24.09	4.192	23.6	24
4-1	2.30	.454	16.64	4.881	5.1	12

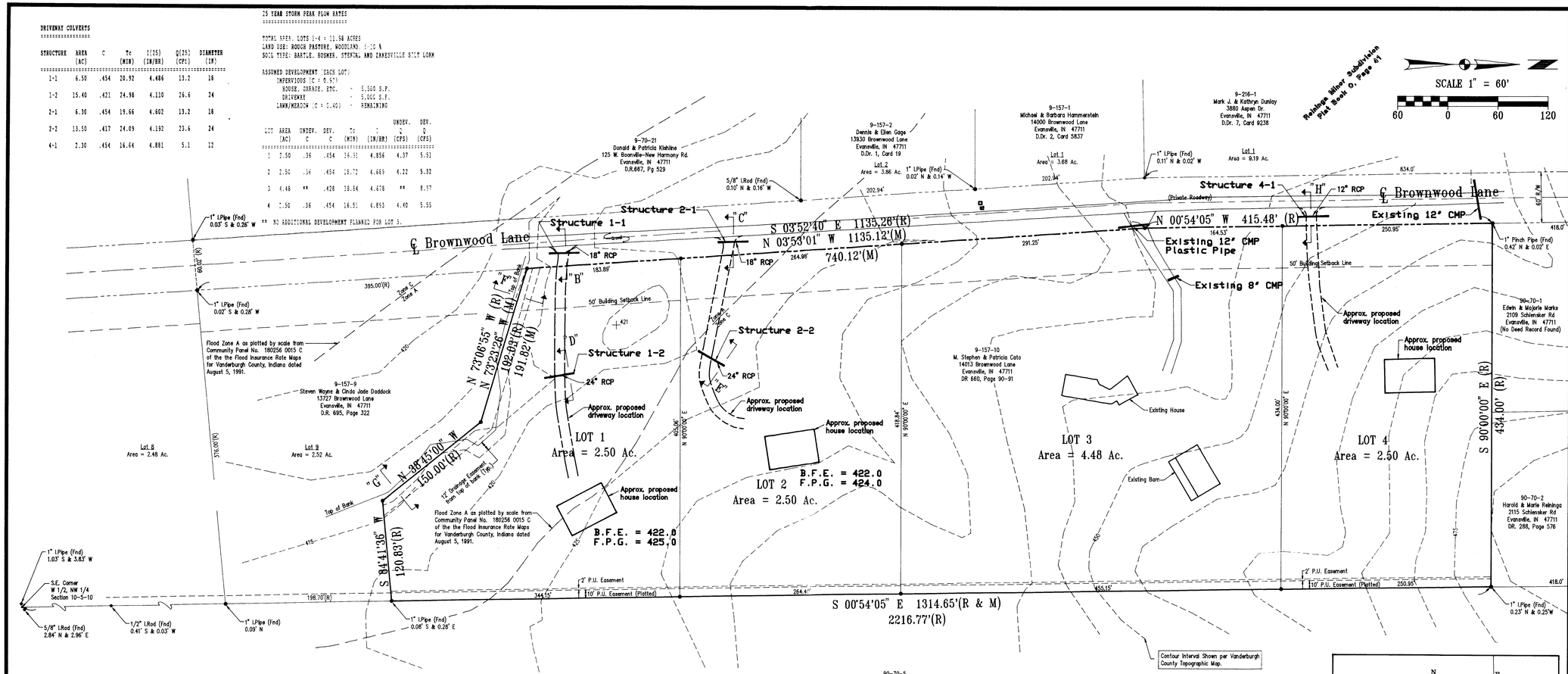
25 YEAR STORM PEAK FLOW RATES

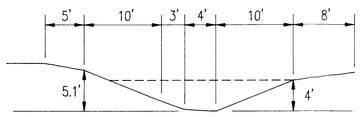
TOTAL AREA, LOTS 1-4 = 31.58 ACRES
LAND USE: ROUGH PASTURE, WOODLAND, 5-10 %
SOIL TYPE: BARTLE, BOSKER, STEKTAL AND ZANESVILLE SILT LOAM

ASSUMED DEVELOPMENT (EACH LOT)
IMPERVIOUS (C = 0.90)
HOUSE, GARAGE, ETC. - 5,500 S.F.
DRIVEWAY - 5,000 S.F.
LAWN/MEADOW (C = 0.40) - REMAINING

LOT	AREA (AC)	UNDEV. C	DEV. C	Tc (MIN)	I (IN/HR)	UNDEV. Q (CFS)	DEV. Q (CFS)
1	2.50	.36	.454	16.51	4.856	4.37	5.51
2	2.50	.36	.454	16.72	4.669	4.22	5.32
3	4.48	**	.428	18.64	4.478	**	8.57
4	2.50	.36	.454	16.51	4.853	4.40	5.55

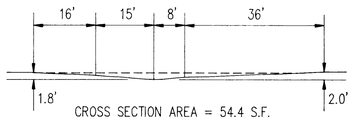
** NO ADDITIONAL DEVELOPMENT PLANNED FOR LOT 3.





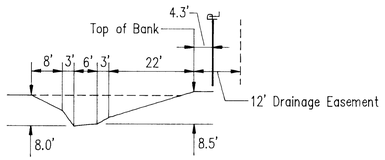
CROSS SECTION AREA = 54.5 S.F.

Channel Section B–B
No Scale



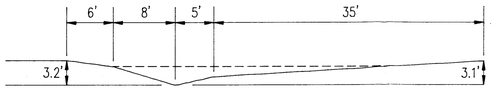
CROSS SECTION AREA = 54.4 S.F.

Channel Section E–E
No Scale



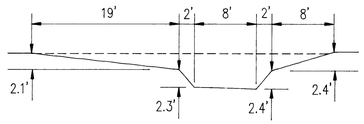
CROSS SECTION AREA = 155.0 S.F.

Channel Section G–G
No Scale



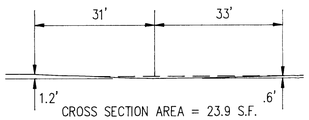
CROSS SECTION AREA = 33.6 S.F.

Channel Section C–C
No Scale



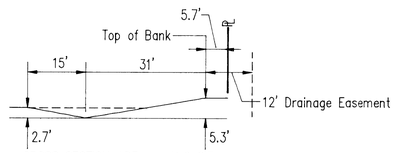
CROSS SECTION AREA = 77.3 S.F.

Channel Section F–F
No Scale



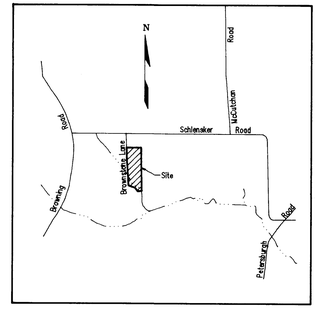
CROSS SECTION AREA = 23.9 S.F.

Channel Section D–D
No Scale



CROSS SECTION AREA = 41.6 S.F.

Channel Section H–H
No Scale



Site Location Map
Not to Scale

(R) = Record
(M) = Measured

● = 5/8" I.Rod With Plastic Cap Stamped ,"Morley and Assoc., ID No. 0023" Set, unless noted otherwise.

Note:
Corrugated metal pipe (CMP) or smooth – flo corrugated high density polyethylene (HDPE) plastic pipe may be substituted for reinforced concrete pipe (RCP) for driveway culverts.

Morley and Associates, INC.
Consulting Engineers/Surveyors/Architects
605 S.E. Martin Luther King Jr. Blvd.
Evansville, Indiana 47713
(812) 464-9585

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Written dimensions on these drawings shall have precedence over scale dimensions. Contractor shall verify and be responsible for all dimensions and conditions on the job and Morley and Associates, Inc. must be notified of any variations from the dimensions and conditions shown by these drawings.

Revisions

No.	By	Date	Description

DANIEL JAMES HELLERT REGISTERED PROFESSIONAL ENGINEER No. 20484 STATE OF INDIANA

Project: REPLAT OF LOT 10 – BROWNWOOD ESTATES

Sheet Title: DRAINAGE PLAN

Scale: 1" = 60'

Designed By: D.J.H.	Job Number: 95-3076-4
Drawn By: R.S.L.	Date: 7-05-95
Checked By:	Filename: DRAIN.DWG

Sheet Number: 1 Of: