

LOT 2, BLOCK 1
STEEGER RETAIL ADDITION
CAB. C, SLIDES 115 & 116
M.R.R.C.T.

EXISTING DRIVEWAY
F.M. #740 (RIDGE ROAD 90' R.O.W.)
F.M. #3097 (100' R.O.W.)

EXIST. 2' x 3' BOX CULVERT

INSTALL 54 LF. OF
18" CL III R.C.P.
PIPE W/ 1/8 SAFETY
SLOPING HEADWALLS

15' R.C.H. WATER SUPPLY ESMT
VOL. 64, PG. 308 D.R.R.C.T.
10" SAN. SEWER ESMT.
VOL. 214, PG. 721 D.R.R.C.T.

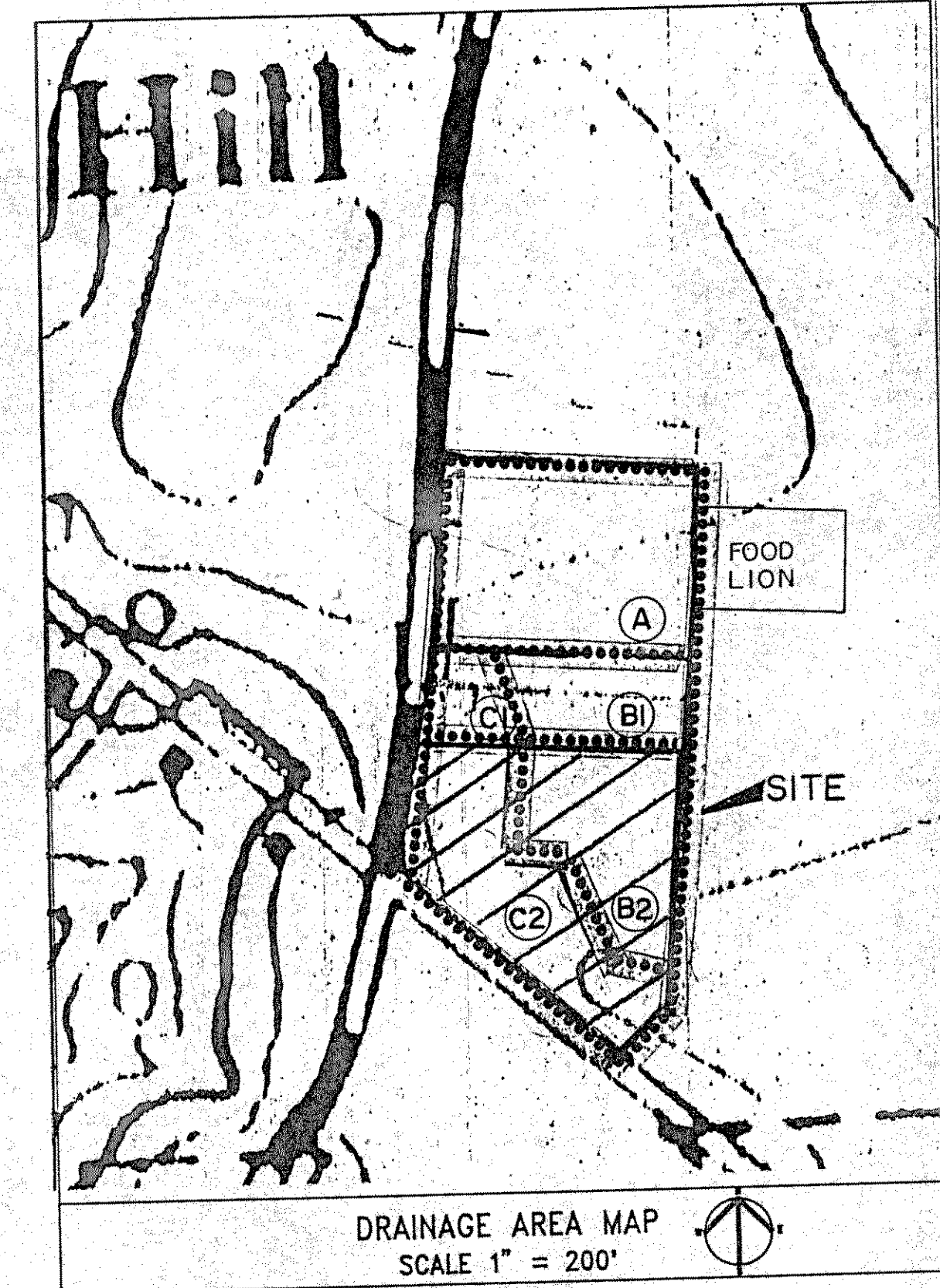
FLOW FOR EXISTING 27" R.C.P.
AREA = 3.98 S.F.
PERIMETER = 7.07 FT.
n = 0.015
SLOPE = 3.20%
Q(CAP) = 48.27 c.f.s.
Q(100-REQ) = B1+B2+C1+C2 = 34.81 c.f.s.
VELOCITY = 8.76 f.p.s.
V/2G = 1.19 FT.
S(f) = 0.0167 FT./FT.

- GENERAL NOTES
- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THESE PLANS AND CITY OF PLANO STANDARDS AND SPECIFICATIONS.
 - BARRICADING, TRAFFIC CONTROL, AND PROJECT SIGNS SHALL CONFORM TO "STATE DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION BARRICADING AND CONSTRUCTION STANDARDS".
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE CITY OF ROCKWALL AND OWNER'S REPRESENTATIVE 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT PUBLIC UTILITY COMPANIES FOR FIELD LOCATION OF EXISTING UTILITIES BEFORE CONSTRUCTION BEGINS.
 - ALL DIMENSIONS SHOWN ARE TO THE FACE OF CURB UNLESS OTHERWISE SHOWN.
 - ALL GRADES ARE TO THE TOP OF CURB OR TOP OF PAVEMENT UNLESS OTHERWISE SHOWN.
 - TRENCH SAFETY SYSTEMS SHALL BE PROVIDED BY THE CONTRACTOR AS PROVIDED IN SUBPART P - EXCAVATION, TRENCHING AND SHORING, PART 1926 OF THE CODE OF FEDERAL REGULATIONS WHICH DESCRIBES SAFETY AND HEALTH REGULATIONS AS ADMINISTERED BY THE U.S. DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (O.S.H.A.). THE STANDARDS SPECIFIED BY THE O.S.H.A. REGULATIONS SHALL BE THE MINIMUM ALLOWED ON THIS PROJECT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DESIGN AND INSTALL ADEQUATE TRENCH SAFETY SYSTEMS FOR ALL TRENCHES EXCAVATED ON THIS PROJECT.
 - BEFORE BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL FURNISH TO THE CITY FOR APPROVAL A TRENCH SAFETY PLAN FOR THIS PROJECT. THE TRENCH SAFETY PLAN MUST BE PREPARED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF TEXAS. IN ADDITION, ALL TRENCH SAFETY SYSTEMS UTILIZED IN THIS PROJECT MUST BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF TEXAS. THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR THE SAFETY OF ALL PERSONS INVOLVED IN THE CONSTRUCTION OF THIS PROJECT.
 - CONTRACTOR SHALL VERIFY ALL EXISTING INVERTS AND RIM ELEVATIONS PRIOR TO CONSTRUCTION.

9113H.WPS D602

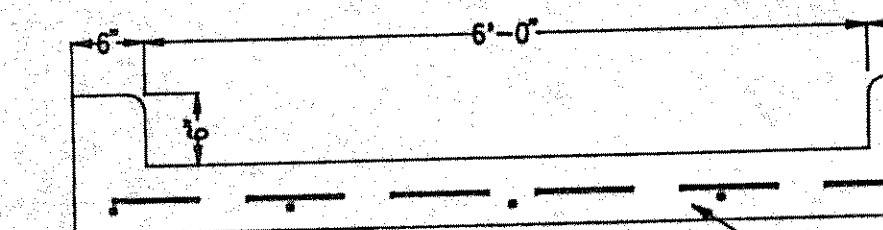
GRADING NOTES

- REMOVE TOPSOIL TO DEPTH OF 3" AND STOCKPILE, EXCAVATE ROADS AND PARKING AREAS FOR FILL. AT BUILDING PADS WHICH SHALL MAINTAIN FLAT GRADE 5' OUTSIDE OF BUILDING BEFORE SLOPE STARTS. COMPACT FILL TO 95% PROCTOR DENSITY AT OPTIMUM MOISTURE CONTENT.
- IN THE CASE OF SLABS ON GRADE, ROUGH PAD WILL BE BROUGHT TO 6" BELOW FINISH SLAB ELEVATION. REVIEW GRADINGS WITH ENGINEER SO +/- 0.3' ADJUSTMENT MAY BE MADE TO BALANCE CUT AND FILL IF REQUIRED. EXCESS FILL MAY BE DISPOSED ON SITE AS DIRECTED BY ENGINEER.
- SLOPE GRASSED AREAS AND SIDEWALKS AT A MINIMUM OF 1% TO TOP OF CURBS OR DRAINAGE CHANNEL.
- CROSS-SECTIONAL SLOPE ON DRIVEWAYS AND PARKING LOTS SHALL BE A MINIMUM OF 1/4" TO 1'-0" (2%).
- 2'-4" O.P.V.C. DRAINS SHALL BE PLACED UNDER ALL SIDEWALKS WHICH CROSS A DRAINAGE SWALE.
- SEE ARCHITECTURAL LANDSCAPE DRAWINGS FOR DETAILS OF FINISHED GRADING.
- ALL DRAINAGE SWALES SHALL BE SMOOTHLY SLOPING TO THE OUTLET STRUCTURES WITH 1'-0" +/- DEPTH. SIDE SLOPE SHALL BE 1 TO 3 WITH HYDROMULCHED BERMUDA GRASS ALONG SLOPES AND BOTTOM.
- 5.0' CURB OPENINGS SHOWN THUS: "I"
- ALL REINFORCED CONCRETE STORM DRAIN PIPE SHALL BE CLASS III.
- PUBLIC STREETS AND FIRE LANES SHALL HAVE STANDARD CURB AND GUTTER WITH A MINIMUM 6" STABILIZED SUB-GRADE AND 6" CONCRETE PAVING OR THICKER IN ACCORDANCE WITH CITY STANDARDS.
- CONSTRUCT FINISHED FLOORS A MINIMUM OF 1'-0" ABOVE THE ADJACENT PAVEMENT. WARP PAVEMENT UP TO WAREHOUSE FLOORS TO PROVIDE SMOOTH TRANSITION AND POSITIVE DRAINAGE AWAY FROM BUILDINGS. 9113L.WPS D602



HYDRAULIC CALCULATIONS
Q=C.I.A.

AREA	ACRES	Tc	COEF.	I(10)	I(100)	Q(10)	Q(100)
A	2.00	10	0.95	7.50	10.50	14.25	19.95
B1	0.64	10	0.95	7.50	10.50	4.56	6.38
B2	1.00	10	0.95	7.50	10.50	7.13	9.98
C1	0.35	10	0.95	7.50	10.50	2.49	3.49
C2	1.50	10	0.95	7.50	10.50	10.69	14.96



AREA = 3.00 S.F.
PERIMETER = 7.0 FT.
n = 0.015
SLOPE = 2.0%
Q(CAP) = 24.02 c.f.s.

Q(100-REQ) = C1+C2 = 18.45 c.f.s.
VELOCITY = 6.16 f.p.s.
W/2G = 0.59 FT.
S(f) = 0.0119 FT./FT.

6" THICK 3000 PSI
CONCRETE WITH
#3 @ 18" c.c.e.w.

CONCRETE FLUME DETAIL
N.T.S.

PAVING NOTES

- PAVING SHALL BE DESIGNED IN ACCORDANCE WITH THE CITY STANDARDS AND SOILS REPORT RECOMMENDATIONS THOUGH NOT LESS THAN:
5" OF 3,500 P.S.I. CONCRETE WITH #3 @ 18" E.W. AT CENTER AND TOP
6" OF SUB-BASE WITH 6% LIME STABILIZATION COMPACTED TO 95% PROCTOR DENSITY AT OPTIMUM MOISTURE.
- PAVING SHALL BE PREPARED IN ACCORDANCE WITH THE CITY STANDARDS AND SOILS REPORT RECOMMENDATIONS, THOUGH NOT LESS THAN:
2" SURFACE WEARING COURSE, T.H.D. TYPE D.
3" BINDER BASE COURSE, T.H.D. TYPE A.
6" OF 6% LIME STABILIZED FILL COMPACTED TO 95% PROCTOR DENSITY AT OPTIMUM MOISTURE.

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GRADING & DRAINAGE PLAN

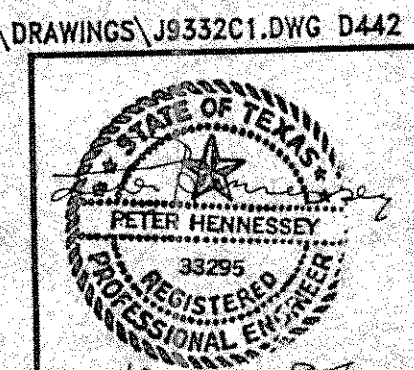
AMERICAN NATIONAL BANK

HENNESSEY ENGINEERING, INC.

1408 THIRD AVE., CARROLLTON,
TEXAS, 75006 (214-245-9478)

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
H-E	M.J.B.	10/10/94	1"=40'		J9332	C-1



LEGEND:

EXISTING	PROPOSED	DESCRIPTION
630TC	630TC	TOP OF CURB ELEVATION
630C	630C	GUTTER ELEVATION
630TP	630TP	TOP OF PAVEMENT ELEVATION
F.F. 630	F.F. 630	FINISHED FLOOR ELEVATION
FL 630	FL 630	FLOW LINE ELEVATION
630	630	CONTOUR LINE
W.M.	W.M.	WATER METER
W.V.	W.V.	WATER VALVE
M.H.	M.H.	MANHOLE
U.P.	U.P.	UTILITY POLE AND OVERHEAD LINES
TEL. P.	TEL. P.	TELEPHONE PEDESTAL
F.H.	F.H.	FIRE HYDRANT
I.R.F.	I.R.F.	IRON ROD FOUND
I.R.S.	I.R.S.	IRON ROD SET
W.F.	W.F.	WIRE FENCE
W.F.	W.F.	WOOD FENCE
C.L.F.	C.L.F.	CHAIN LINK FENCE
U.C.	U.C.	UNDERGROUND CABLE
G.	G.	GAS LINE
---	---	DRAINAGE AREA DIVIDE
○	○	DRAINAGE AREA DESIGNATION
○	○	100 YR. STORM RUNOFF (c.f.s.)
○	○	ACRES IN DRAINAGE AREA

BENCHMARK:
SQUARE CUT ON NORTH END OF 3' x 2' BOX CULVERT
AT THE N.E. CORNER OF F.M. 740 AND F.M. 3097

ELEV. = 568.07