



City of Albuquerque

July 13, 2000

Dennis Lorenz, PE
Brasher & Lorenz, Inc.
2201 San Pedro NE, Bldg. 1
Albuquerque, NM 87110

Re: Bethel Place Drainage Report
Engineer's Stamp dated 6-15-00 (M15/D36)

Dear Mr. Lorenz,

Based upon the information provided in your submittal dated 7-12-00, the above referenced Drainage Report is approved for Preliminary Plat action.

This plan is also approved for Grading Permit release. As you are aware, a topsoil disturbance permit must be obtained prior to any grading taking place.

Prior to Final Plat sign-off, the Subdivision Improvements Agreement (SIA) must be executed. Please be advised that the Grading And Drainage Certification is required prior to release of the SIA for this subdivision.

If you have any questions, you can contact me at 924-3986.

Sincerely,

Bradley L. Bingham, PE
Hydrology Review Engineer

C: file

DRAINAGE INFORMATION SHEET

APPLICANT'S NAME: BETHEL PLACE ZONE ATLAS/DRNG. FILE #: M 15 / D036
 DRB #: _____ EPC #: _____ WORK ORDER #: _____
 LEGAL DESCRIPTION: LOTS 1-5 + A-F, BLK 10, UNIT 3 KIRTLAND ADDN
 CITY ADDRESS: BETHEL AVE SE
 ENGINEERING FIRM: BRASHER + LORENZ CONTACT: D. LORENZ
 ADDRESS: 2201 SAN PEDRO NE PHONE: 888-6088
 OWNER: 21 HOUSING CORP CONTACT: K. HINKES
 ADDRESS: 3411 CAMBELLARIA PHONE: 838-5776
 ARCHITECT: NA CONTACT: _____
 ADDRESS: _____ PHONE: _____
 SURVEYOR: ALDRICH LAND SURV CONTACT: T. ALDRICH
 ADDRESS: MONTGOMERY NE PHONE: 884-1990
 CONTRACTOR: NA CONTACT: _____
 ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

- ☒ DRAINAGE REPORT
- ☐ DRAINAGE PLAN
- ☐ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☐ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☐ ENGINEER'S CERTIFICATION
- ☐ OTHER _____

PRE-DESIGN MEETING:

- ☐ YES
- ☐ NO
- ☐ COPY PROVIDED

CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SKETCH PLAT APPROVAL
- ☒ PRELIMINARY PLAT APPROVAL
- ☐ S. DEV. PLAN FOR SUB'D APPROVAL
- ☐ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
- ☐ SECTOR PLAN APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☐ FOUNDATION PERMIT APPROVAL
- ☐ BUILDING PERMIT APPROVAL
- ☐ CERTIFICATE OF OCCUPANCY APPROVAL
- ☐ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ S.A.D. DRAINAGE REPORT
- ☐ DRAINAGE REQUIREMENTS
- ☐ SUBDIVISION CERTIFICATION
- ☐ OTHER _____ (SPECIFY)

DATE SUBMITTED: 6.15.00
 BY: [Signature]

Revised 02/98

R **E** **C** **E** **I** **V** **E** **D**
 JUL 12 2000
 HYDROLOGY SECTION

DRAINAGE REPORT

FOR

BETHEL PLACE
Albuquerque, New Mexico

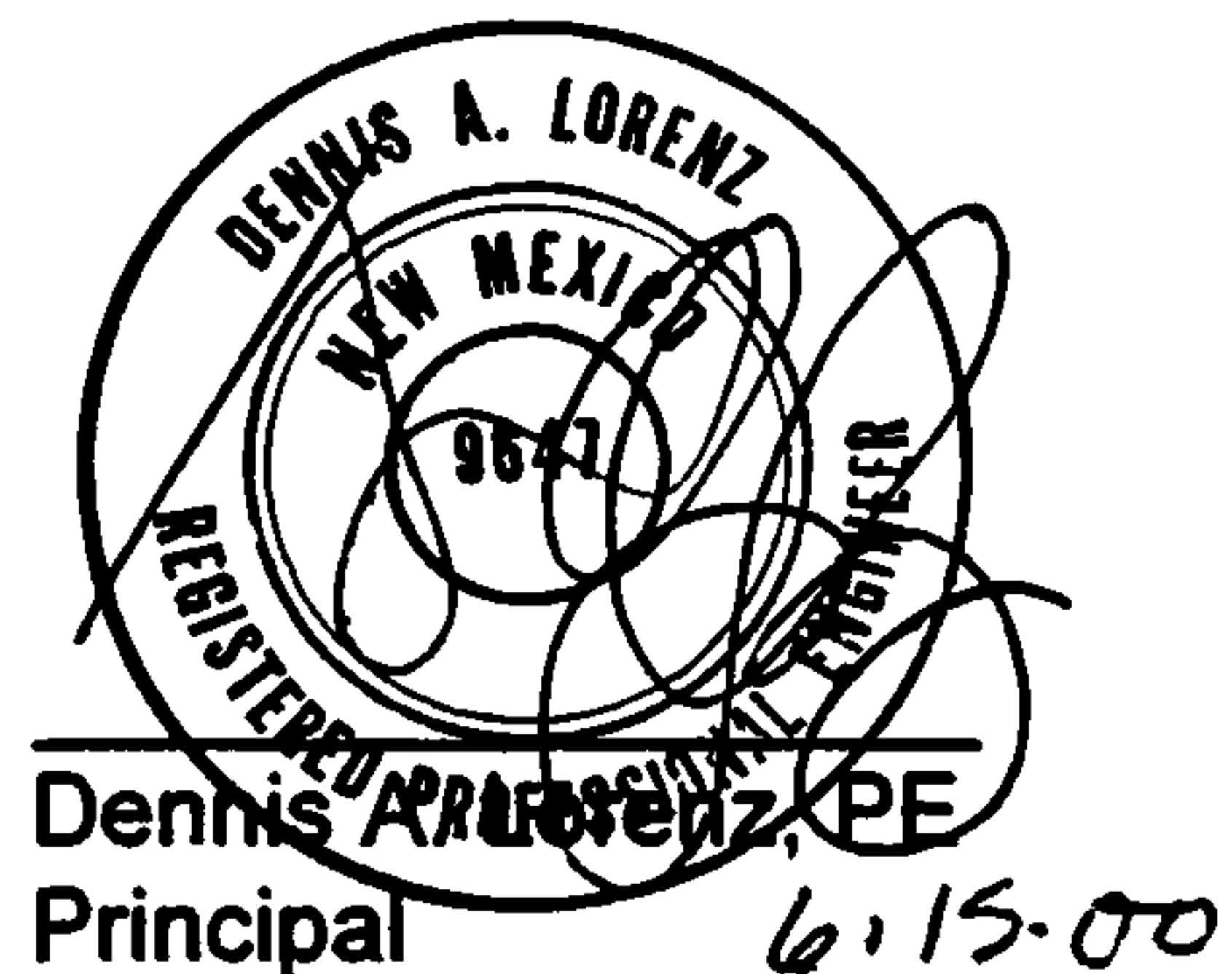
Prepared For:

21 Housing Corporation
3411 Candelaria Road NE, Suite J
Albuquerque, New Mexico 87107

Prepared By:

BRASHER & LORENZ, INC.
Consulting Engineers
2201 San Pedro NE, Building No. 1, Suite 220
Albuquerque, New Mexico 87110

R **E** **C** **E** **I** **V** **E** **D**
JUL 12 2000
HYDROLOGY SECTION



June 2000

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GRADING AND DRAINAGE PLAN	

PURPOSE AND SCOPE

Pursuant to the established Drainage Ordinance for the City of Albuquerque and the Development Process Manual, this Drainage Report outlines the drainage management criteria for controlling developed runoff from the project site. The property is to be developed as **Bethel Place**, a single-family residential subdivision. Paving, landscaping, utility, grading, and drainage improvements will be provided to support the project. The scope of this plan is to provide drainage criteria for the safe management of excess runoff, and illustrate the grading, paving and drainage improvements required to support the project.

SITE DESCRIPTION

The project site is approximately 2.0 acres in size and is located on Bethel Avenue, just east of Mulberry Street. (See Figure 1). Presently the site is undeveloped. The site is vegetated with native grasses and shrubs. Site terrain generally slopes east to west at varying gradients. The site is presently described as Lots 1-5 & A-F, Block 10, Unit 3, Kirtland Addition. The site is bounded on the east by the Kirtland Park, on the south by undeveloped industrial property, on the west by Mulberry Street, and on the north by a public drainage and utility right-of-way.

On-site soils consist mainly of Wink (WaB) fine sandy loam (See Figure 2). These soils are found on gently sloping areas of the east and west mesas. Slopes range from 0 to 5 percent. Runoff is typically medium, and the hazard of water and wind erosion is moderate. Wink fine sandy loam is classified as Hydrologic soil group "B".

As shown by the attached FIRM Panel, this site is not impacted by a designated flood hazard zone, although a floodplain is confined to a concrete lined channel just north of the site (see Figure 3).

EXISTING DRAINAGE CONDITIONS

Presently the site is undeveloped as described above. Site drainage flows predominately westward, although the rugged terrain directs flows north, west and southwest. Flows that drain north enter the concrete lined arroyo channel located north of the site through a side inlet. Flows that drain westward eventually enter the AMAFCA South Diversion channel.

The site is impacted by off-site flows from the east. Kirtland Park, a City owned and maintained park, discharged developed runoff into the site in the form of sheet flow from an adjacent sod ball field.

Undeveloped properties located south and west of the site drain away from the site.

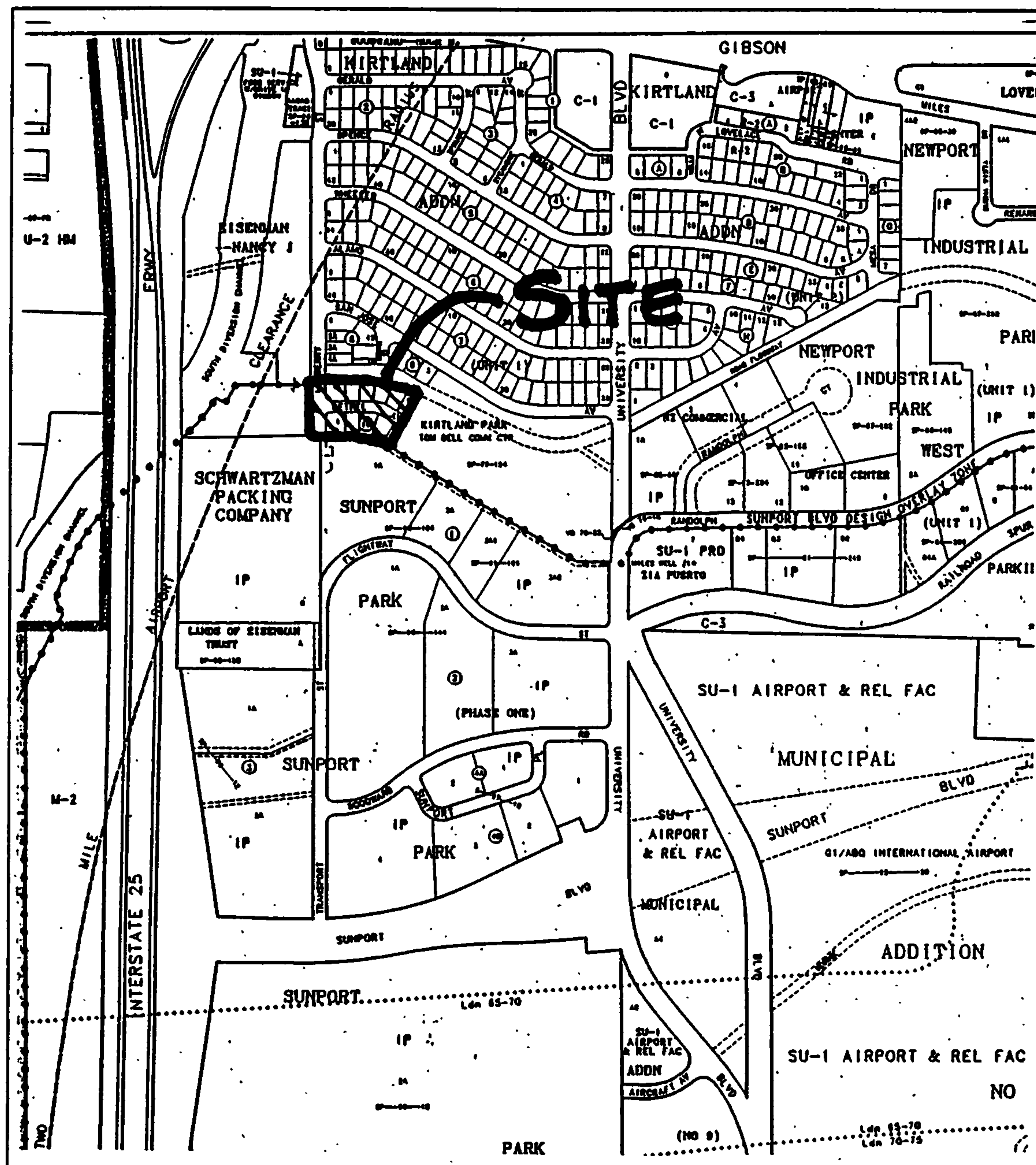
PROPOSED CONDITIONS

As shown by the Plan, the project consists of the development of the property into a single-family residential subdivision, with associated paving, utility landscaping and drainage improvements. The Plan shows the elevations required to properly grade and construct the recommended improvements. The direction of drainage flows are given by flow arrows and on-site drainage basins are identified. All drainage improvements recommended by the Plan are detailed on Grading and Drainage Plan located in the back pocket of this report.

On-site flows drain to the concrete channel either by surface flow in to the existing side inlet, or by storm drain. Basin 101.1 drains north into the drainage right-of-way where flows will be conveyed by a concrete channel to the existing side inlet. Basin 101.2 flows to Bethel Place and Mulberry Street where flows will be drained by 2 new type "A" inlets to an existing 30-inch storm drain that outfalls at the South Diversion inlet. The 30-inch storm drain also provides capacity for the undeveloped tract located south of the project site. An existing area drain collects undeveloped flows near the southwest corner of the subject site combining with on-site flows draining to the South Diversion Channel.

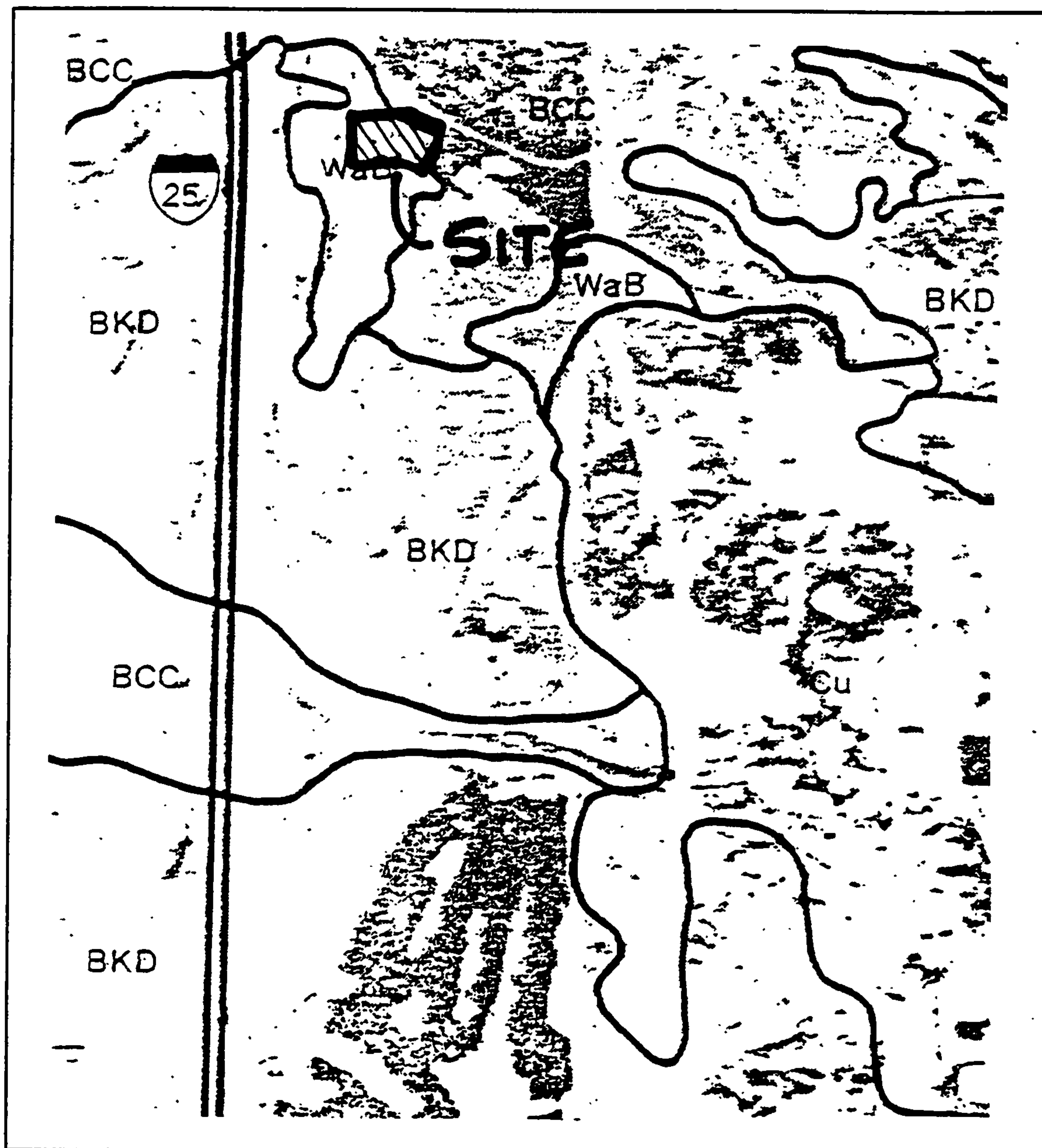
TEMPORARY EROSION CONTROL PLAN

1. The intent of the Temporary Erosion Control Plan is to limit the discharge of sediment into the public street and/or storm drainage system and to protect adjacent properties from excess runoff during construction.
2. The Contractor shall submit a Temporary Erosion Control Plan and obtain a TopSoil Disturbance Permit from Environmental Health prior to performing any earthwork-related operations.
3. After the initial site clearing, the temporary erosion control facilities should be constructed per the Plan to direct excess runoff and sediment the outfall locations.
4. It is the Contractor's responsibility to properly maintain all temporary erosion control facilities during the construction phase of the project.

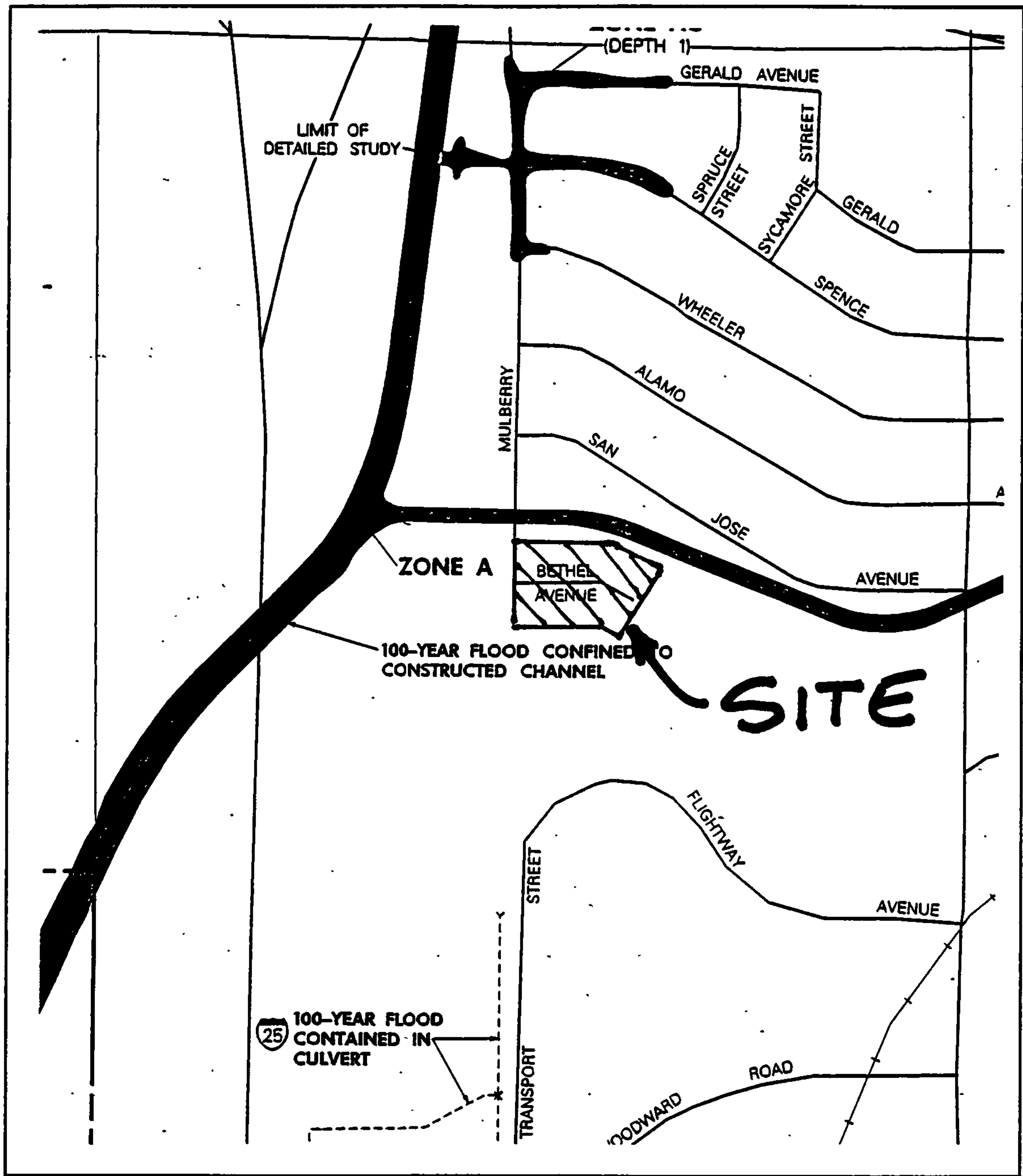


LOCATION MAP

Figure 1



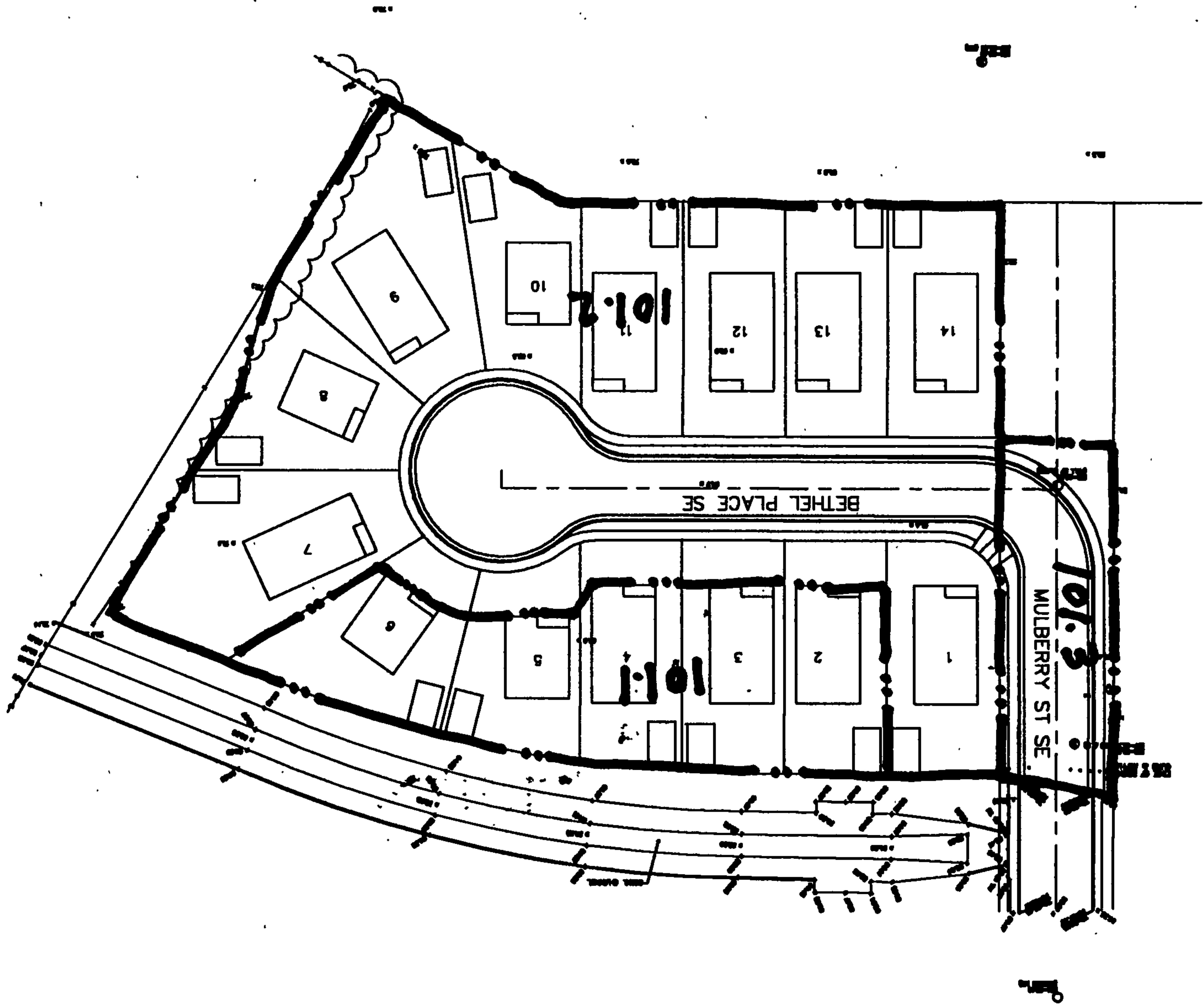
SOILS MAP
Figure 2

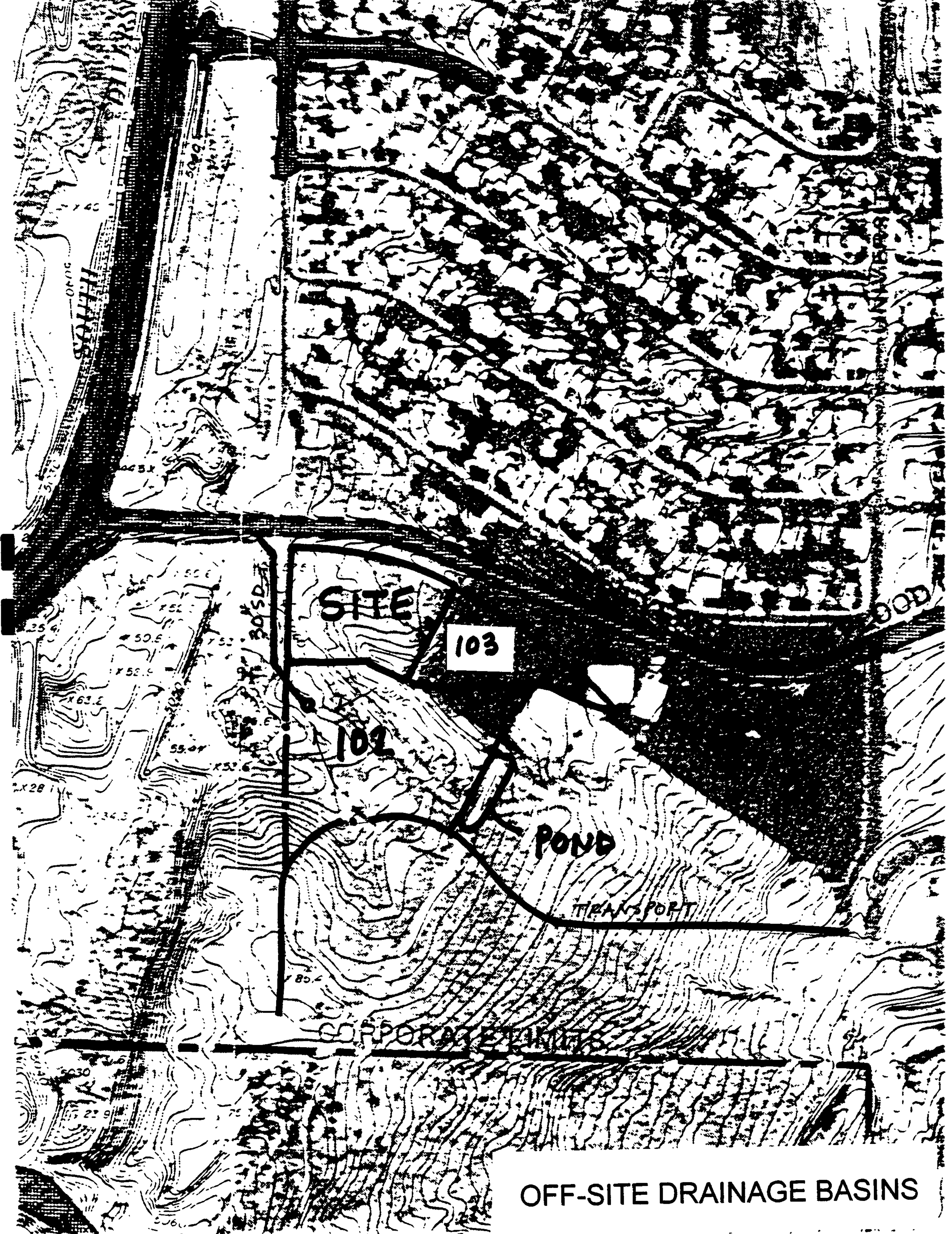


FLOOD INSURANCE RATE MAP
Figure 3

DRAINAGE BASIN MAPS

ON-SITE DRAINAGE BASINS





OFF-SITE DRAINAGE BASINS

CALCULATIONS

INFRASTRUCTURE CAPACITIES

①

		BETHEL PLACE					
			Street Depths				
Street name		Analysis	Q 100	Slope	Width	Depth	Velocity
		Point	(cfs)	(%)	(ft)	(ft)	(fps)
Bethel Place		1	6.1	4.15	28	0.18	3.60
Mulberry Street		2	6.9	0.50	32	0.29	1.69

BETHEL PLACE

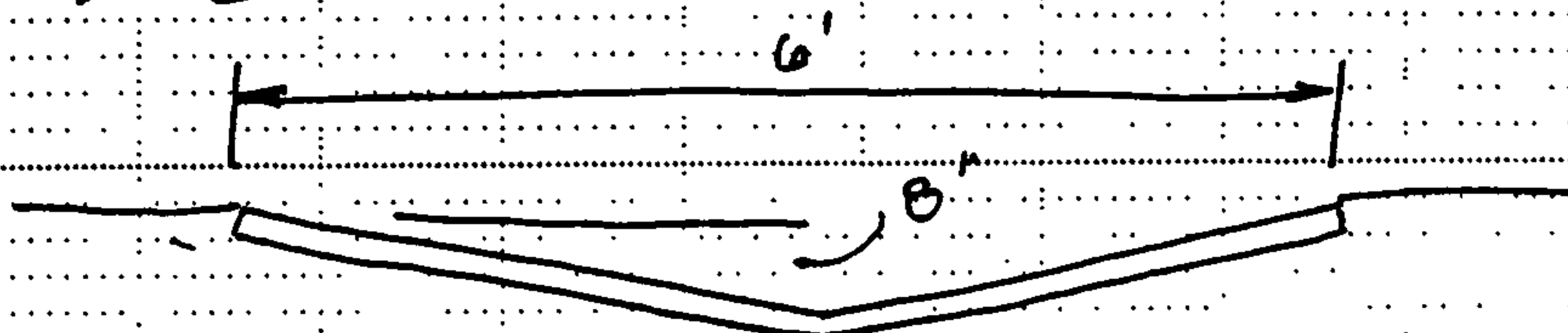
00520

2

6'15.00

② CONCRETE CHANNEL

BUILD CHANNEL TO CONVEY FLOWS
FROM LOTS 1-6 (BASIN 101.1) TO
SIDE INLET



VARIABLES LIST:

Y - FLOW DEPTH
Q - FLOWRATE

B - CHANNEL BOTTOM WIDTH
M - CHANNEL SIDE SLOPE

S - CHANNEL SLOPE
N - CHANNEL ROUGHNESS

VARIABLE TO BE SOLVED (Y, Q, B, M, S OR N) ? Y

Q (CFS) ? 1.64 BASIN 101.1
B (FT) ? 0
M (FT/FT) ? 4.47
S (FT/FT) ? .025
N (FT^{1/6}) ? .013

RESULTS

=====

Y=	0.28 FT
A=	0.34 SF
P=	2.54 FT
V=	4.76 FPS
F=	2.25

SUPER-CRITICAL FLOW

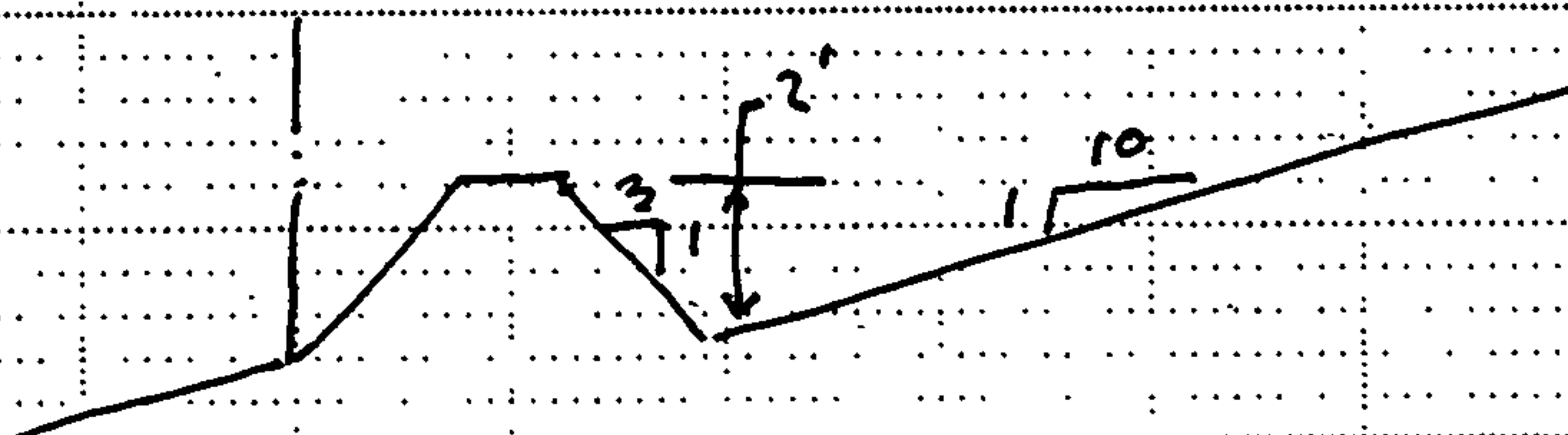
$$EGL = (4.8)^2 / 2g$$

$$= 0.35' + Y$$

$$= 0.63' < d$$

③ OFF-SITE BERM

BUILD BERM @ EAST PL TO DIRECT PARK
FLOWS TO CONC CHANNEL



VARIABLES LIST:

Y - FLOW ELEVATION

Q - FLOWRATE

S - CHANNEL SLOPE

VARIABLE TO BE SOLVED (Y, Q OR S) ? Y

Enter up to 20 cross-section points.
Enter <Return> only for distance to end.

Q (CFS) ? 4.0
S (FT/FT) ? .02

CROSS-SECTION POINTS

DIST	ELEV	COEFF	DIST	ELEV	COEFF
0	102.0	.025			
6	100.0	.025			
56	105.0	.025			

RESULTS

=====

Y=	100.45 FT
A=	1.30 SF
P=	5.92 FT
V=	3.07 FPS
F=	1.14

BASIN 103
SUPER-CRITICAL FLOW

$$EGL = (3.1)^2 / 2g = 0.15' + Y = 0.60'$$

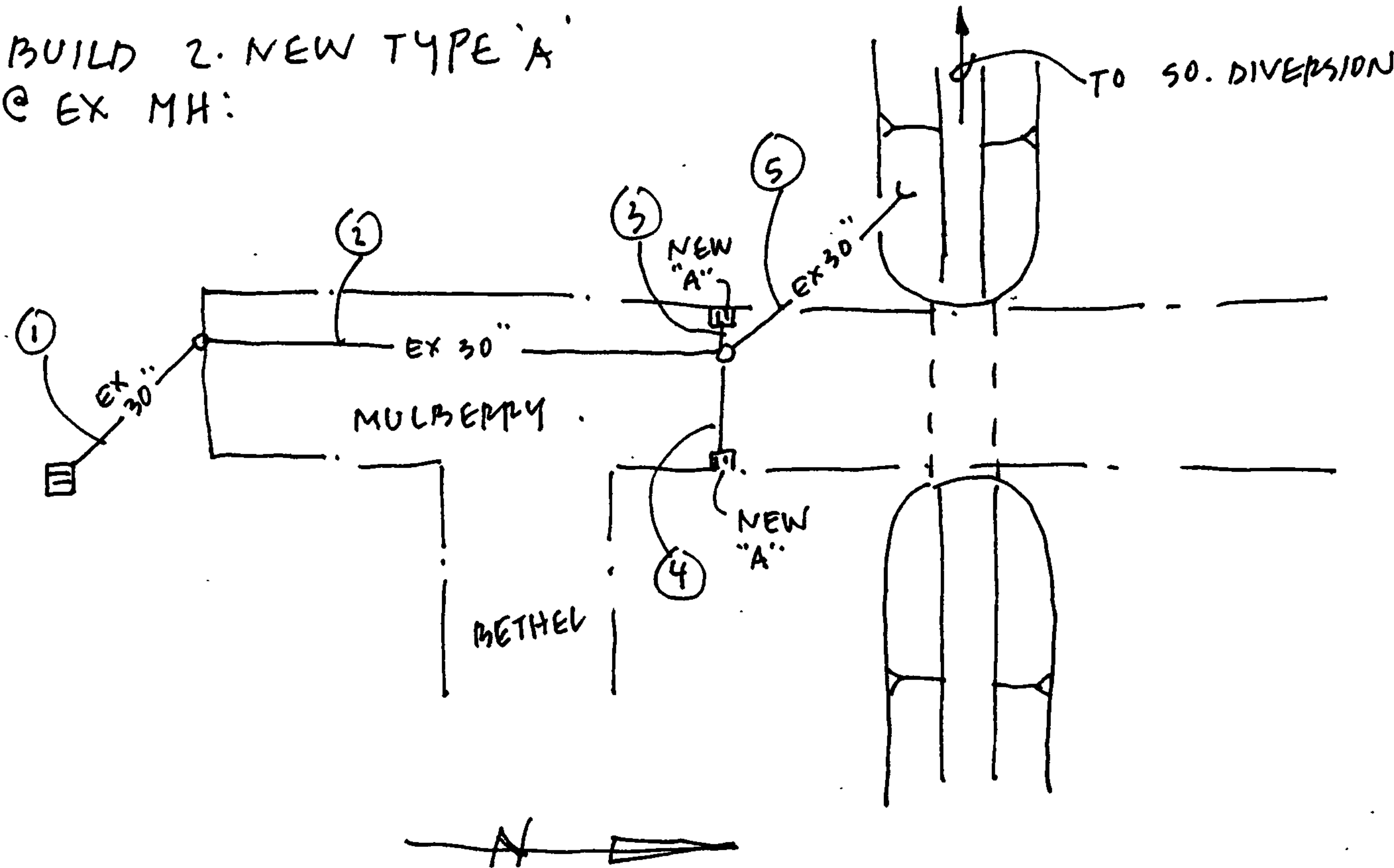
$$0.60' < d$$

4. STORM DRAIN

Sheet1

BETHEL PLACE						
Storm Drain Capacities						
Ap No.	Q 100 (cfs)	Inlet type	Q inlet (cfs)	Q pipe (cfs)	Pipe Dia (in)	Q resid (cfs)
1	16.2	SUMP	16.2	16.2	30	0
2	16.2	**	**	16.2	30	0
3	3.5	A	3.5	3.5	18	0
4	3.5	A	3.5	3.5	18	0
5	24	**	**	24	30	0

BUILD 2. NEW TYPE 'A'
@ EX MH:



**CITY OF ALBUQUERQUE/PUBLIC WORKS DEPT.
DESIGN REVIEW COMMITTEE AGENDA
WEEK OF JULY 17-21 2000
LOCATION: 600 N. 2ND ST./PLAZA DEL SOL BUILDING.
PUBLIC WORKS CONFERENCE ROOM, 2ND FLOOR**

Committee members include representatives from the Transportation, Utility Development, Hydrology, Construction Management Divisions of the Public Works Department, Parks and Recreation Department (trails and park design), and the Capital Improvements Department (streetscapes and medians).

Meetings are scheduled Monday thru Thursday from 1:30 - 5:00 p.m. and Fridays from 9:00 - 12:00 a.m. based on space availability. *These meetings are open to the public, however, comments are not solicited nor accepted.* The DRC meetings are for developer, consultant and City staff to review and discuss the construction plans for compliance with City standards. All public input is held through the DRB process.

For information call the DRC Chairman at (505) 924-3992.

Monday, July 17, 2000

- 1. Preliminary Review Session - 1:30 P.M.**
AHBA, CPN 645681, Map M-09/10, “**El Rancho Grande I, Units 1, 2, 3**”, in the area of Camino San Martin & Benavides Rd. S.W.. Project consists of infrastructure installation. (Greg Krenik, Mark Goodwin & Associates.)
- 2. Final Review Session - 3:00 P.M.**
CIP, CPN 641091, Map H/J-10, “**West Mesa Diversion Project, Phase 2A**”, on 64th St. N.W., from Fortuna Rd. To I-40. Project consists of storm drainage installation. (Doug Andrews, Smith Engineering, Inc.; Carlos Montoya, COA-PWD, Hydrology Division)

Tuesday, July 18, 2000

- 1. Preliminary Review Session - 1:30 P.M.**
AHBA, CPN 645081, Map B-16, “**The Estates at Vista del Norte**”, in the area of Bosque Rd. and Vista Monte Rd. N.E.. Project consists of infrastructure installation. (Diane Hoelzer, Mark Goodwin & Associates.)
- 2. Preliminary Review Session - 2:30 P.M.**
CIP, CPN 543991, Map E-18, “**Pino Arroyo Bike Trail**”, at the Pino Arroyo, from San Pedro Dr. to I-25 N.E.. Project consists of widening of bicycle trail. (Dave Bishop, The Larkin Group; Diane Scena, COA, Parks & Recreation Department)

Design Review Committee Agenda
Week of July 17-21, 2000
Page 2 of 2

Wednesday, July 19, 2000

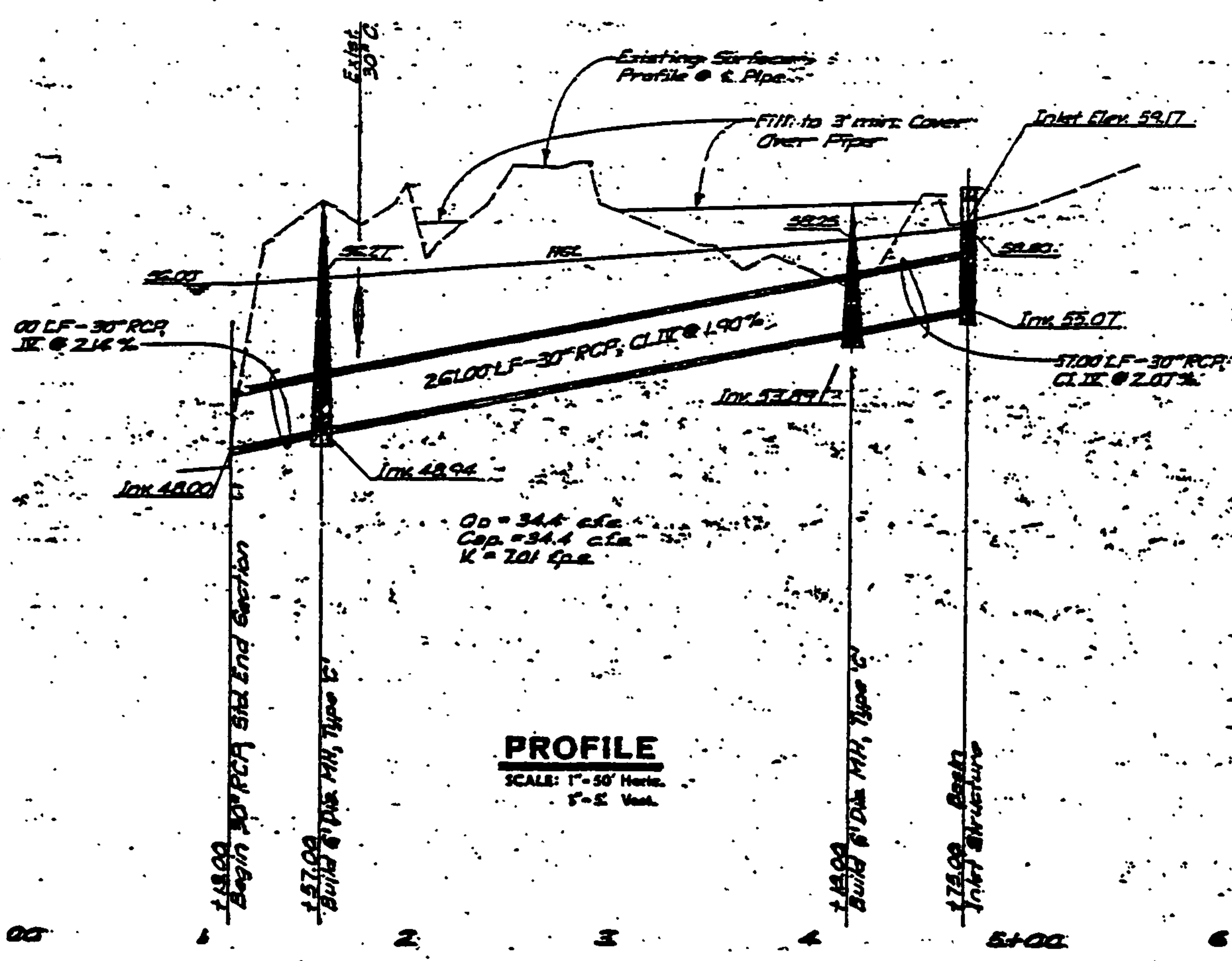
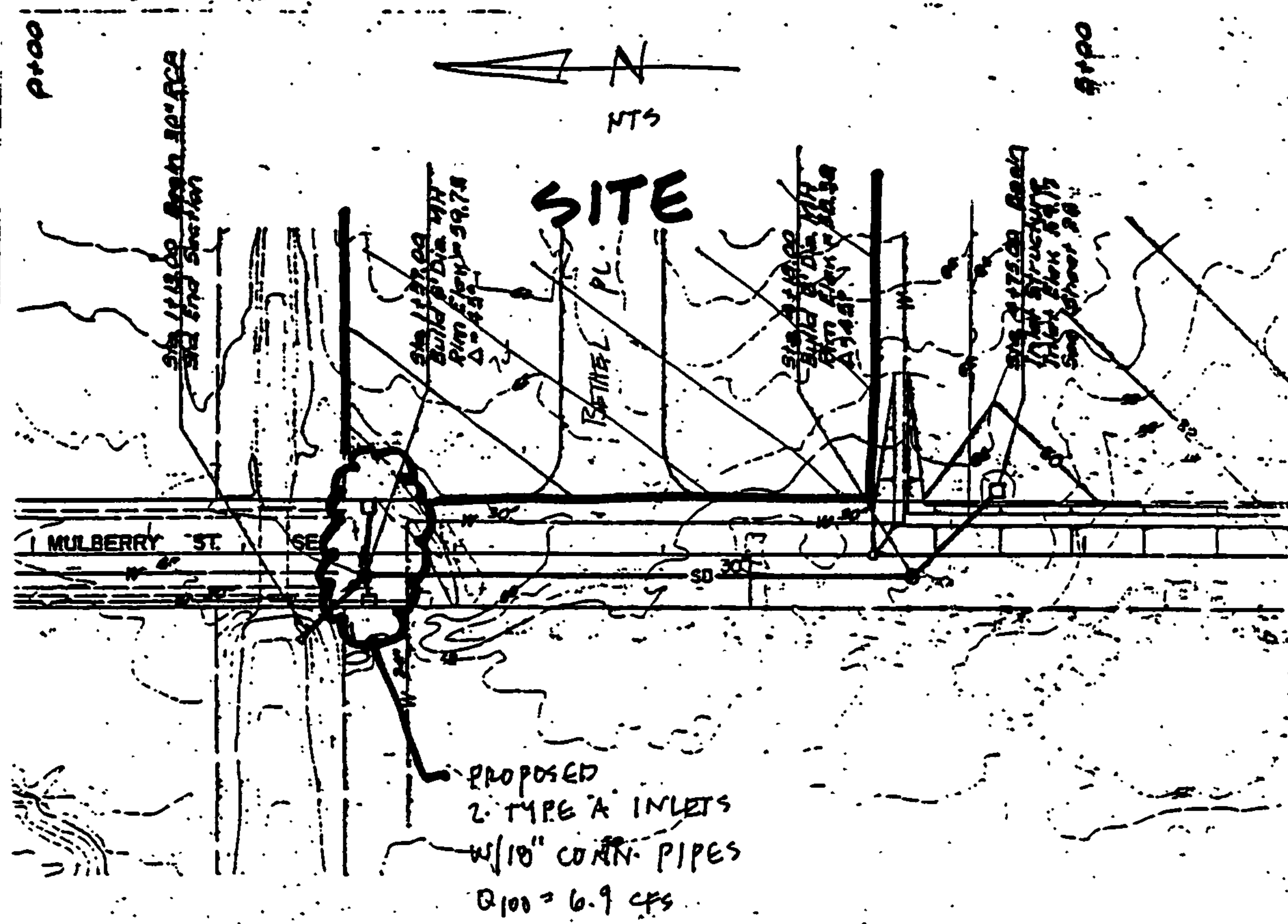
1. **Preliminary Review Session - 1:30 P.M.**
CIP, CPN 645391, Map E/F-12, **“Learning Road Trail and Landscaping”**, on Learning Rd. N.W., east of Coors Bd.. Project consists of trail paving and landscaping. (Jacqueline Fishman, Concensus Planning, Inc.)
2. **Preliminary Review Session - 3:00 P.M.**
CIP, CPN 646291, Map J-18, **“San Mateo Blvd. Noise/Art Wall”**, east side of San Mateo Bd. N.E., from Constitution Ave. to Marble Ave.. Project consists of landscaping, irrigation installation and miscellaneous items. (Patrick Gay and Peg Aguilar, Sites Southwest; George Gee, City Architect)

Thursday, July 20, 2000

1. **Signature Session - 1:30 P.M.**
AHBA, CPN 620881, Map M-10, **“Vista Manzano Subdivision, Phase II”**, in the area of Sage Rd. and Atrisco Dr. S.W.. Project consists of infrastructure installation. (David Soule, Tierra West, LLC)
2. **Signature Session - 2:30 P.M.**
AHBA, CPN 640581, Map K-21, **“Dominium Plaza”**, in the area of Morris St. and Chico Ave. N.E.. Project consists of storm drain installation. (Rick Beltramo, and Mike Ramirez, Bohannon-Huston, Inc.)
3. **Preliminary Review Session - 3:30 P.M.**
AHBA, CPN 646381, Map D-15, **“Tewa Mouldings LLC Waterline Extension”**, 100 Daniel Rd. N.W.. Project consists of waterline installation. (Mike Walla, Walla Engineering, LTD)

Friday, July 21, 2000

NO DRC SCHEDULED!!



AHYMO OUTPUT FILES

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*****
*
*               BETHEL PLACE
*               PROJECT HYDROLOGY
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START          TIME=0.0  PUNCH CODE=0
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               TP=0.1333 HR  MASS RAIN=-1
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* EXISTING KIRTLAND PARK 1.60 AC - BASIN 103
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* DEVELOPED SITE 2.0 AC - BASIN 101
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PRINT HYD      ID=7  CODE=20
PRINT HYD      ID=8  CODE=20
FINISH

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RUN DATE (MON/DAY/YR)

USER NO.= BRASHERE.I01

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START											
TIME= .00											
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RAIN6= 2.350											
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FINISH											

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RUN DATE (MON/DAY/YR) = 06/16/2000
START TIME (HR:MIN:SEC) = 07:27:10 USER NO.= BRASHERE.I01
INPUT FILE = 00520.DAT

* BETHEL PLACE
* PROJECT HYDROLOGY

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RAIN SIX=2.35 RAIN DAY=2.75 DT=0.03333 HRS

COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2 - PEAK AT 1.40 HR.

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.0263	.0286	.0309	.0333	.0358	.0384	.0411
.0439	.0467	.0497	.0529	.0561	.0596	.0631
.0669	.0709	.0751	.0807	.0866	.0930	.1066
.1371	.1840	.2514	.3434	.4644	.6186	.8106
1.0449	1.2624	1.3533	1.4300	1.4982	1.5602	1.6174
1.6704	1.7200	1.7664	1.8102	1.8514	1.8904	1.9273
1.9622	1.9953	2.0268	2.0566	2.0850	2.0915	2.0976
2.1033	2.1088	2.1140	2.1191	2.1239	2.1285	2.1329
2.1373	2.1414	2.1454	2.1494	2.1531	2.1568	2.1604
2.1639	2.1673	2.1706	2.1739	2.1771	2.1802	2.1832
2.1862	2.1891	2.1919	2.1947	2.1975	2.2002	2.2028
2.2054	2.2080	2.2105	2.2130	2.2154	2.2178	2.2202
2.2225	2.2248	2.2270	2.2293	2.2315	2.2336	2.2358
2.2379	2.2399	2.2420	2.2440	2.2460	2.2480	2.2500
2.2519	2.2538	2.2557	2.2576	2.2594	2.2612	2.2631
2.2648	2.2666	2.2684	2.2701	2.2718	2.2735	2.2752
2.2769	2.2785	2.2802	2.2818	2.2834	2.2850	2.2866
2.2881	2.2897	2.2912	2.2928	2.2943	2.2958	2.2973
2.2987	2.3002	2.3017	2.3031	2.3045	2.3060	2.3074
2.3088	2.3102	2.3115	2.3129	2.3143	2.3156	2.3169
2.3183	2.3196	2.3209	2.3222	2.3235	2.3248	2.3261
2.3273	2.3286	2.3298	2.3311	2.3323	2.3335	2.3348
2.3360	2.3372	2.3384	2.3396	2.3408	2.3419	2.3431
2.3443	2.3454	2.3466	2.3477	2.3488	2.3500	

* UNDEVELOPED SITE 2.0 AC - BASIN 100
COMPUTE NM HYD ID=1 HYD NO=100 DA=0.003125 SQ MI
PER A=100 PER B=0 PER C=0 PER D=0
TP=0.1333 HR MASS RAIN=-1

K = .160154HR TP = .133300HR K/TP RATIO = 1.201459 SHAPE CONSTANT, N =
2.957910
UNIT PEAK = 6.5260 CFS UNIT VOLUME = .9976 B = 278.37 P60 = 2.0100
AREA = .003125 SQ MI IA = .65000 INCHES INF = 1.67000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

* UNDEVELOPED OFF-SITE 3.67 AC - BASIN 102
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PER A=100 PER B=0 PER C=0 PER D=0
TP=0.1333 HR MASS RAIN=-1

K = .160154HR TP = .133300HR K/TP RATIO = 1.201459 SHAPE CONSTANT, N =
2.957910
UNIT PEAK = 11.974 CFS UNIT VOLUME = .9985 B = 278.37 P60 = 2.0100
AREA = .005734 SQ MI IA = .65000 INCHES INF = 1.67000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

* EXISTING KIRTLAND PARK 1.60 AC - BASIN 103
COMPUTE NM HYD ID=3 HYD NO=103 DA=0.002500 SQ MI
PER A=0 PER B=85 PER C=10 PER D=5
TP=0.1333 HR MASS RAIN=-1