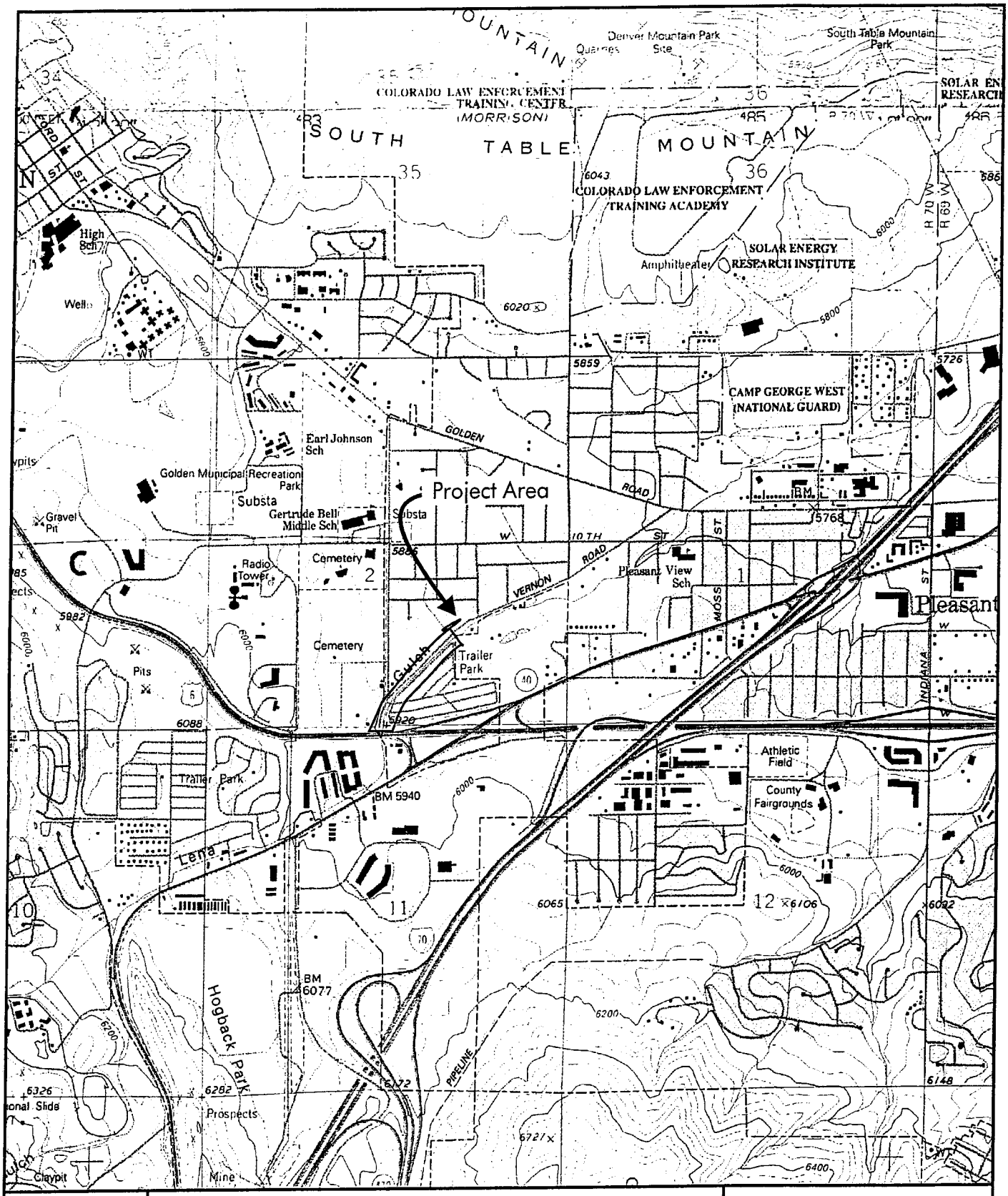


ERO Resources Corp.
1842 Clarkson Street
Denver, CO 80218
(303) 830-1188
Fax: 830-1199

Lena Gulch at Ulysses Street
SE 1/4 Section 2, T4S, R70W
UTM Coordinates: Zone 13; 4397600mN, 483600mE
Morrison Quadrangle,
Jefferson County, Colorado

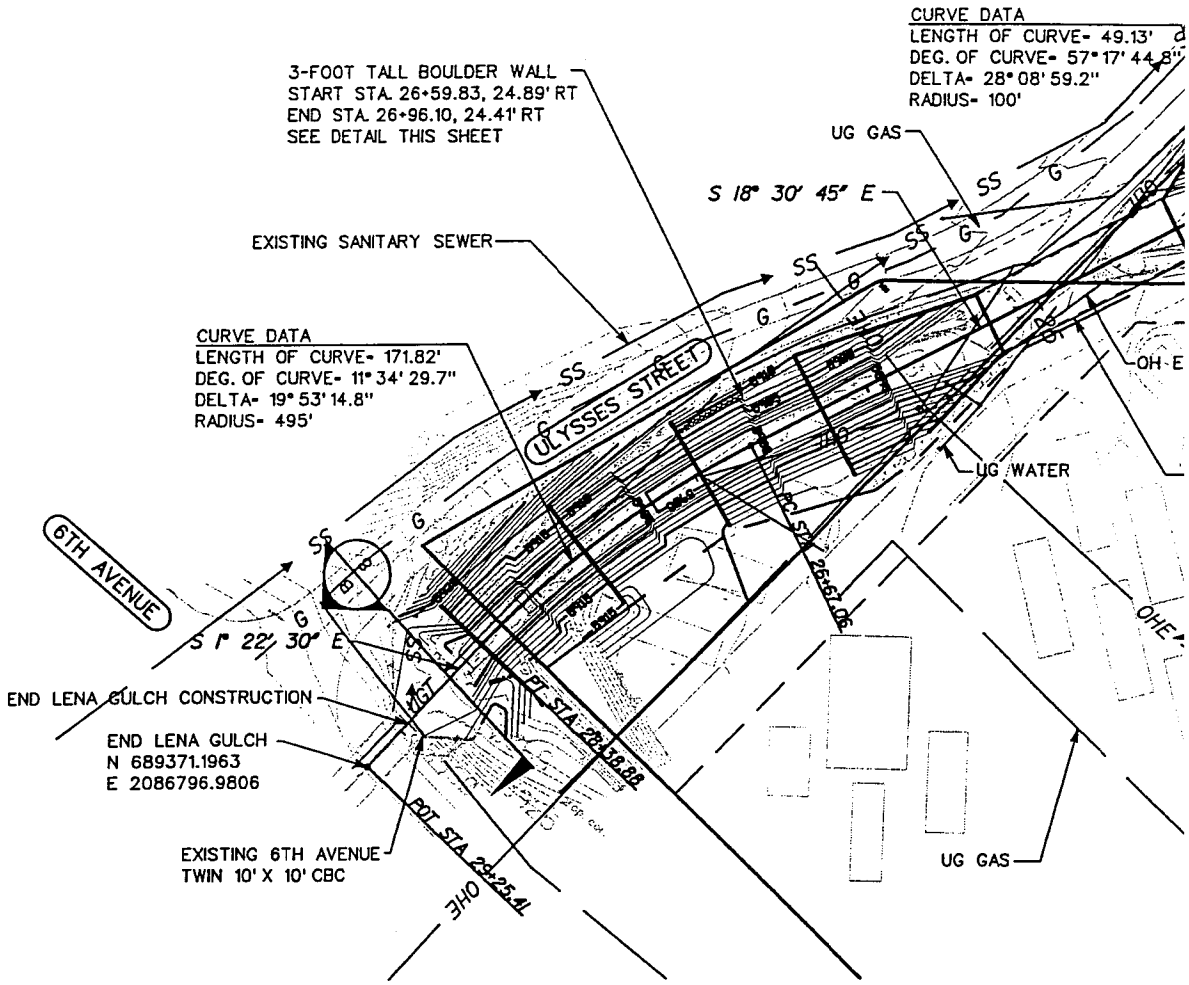
1 Inch = 2,000 Feet

N

Figure 1
Site Location

Prepared for: UDFCD
File: 1126 Fig1.cdr
March 2003

OH ELECT



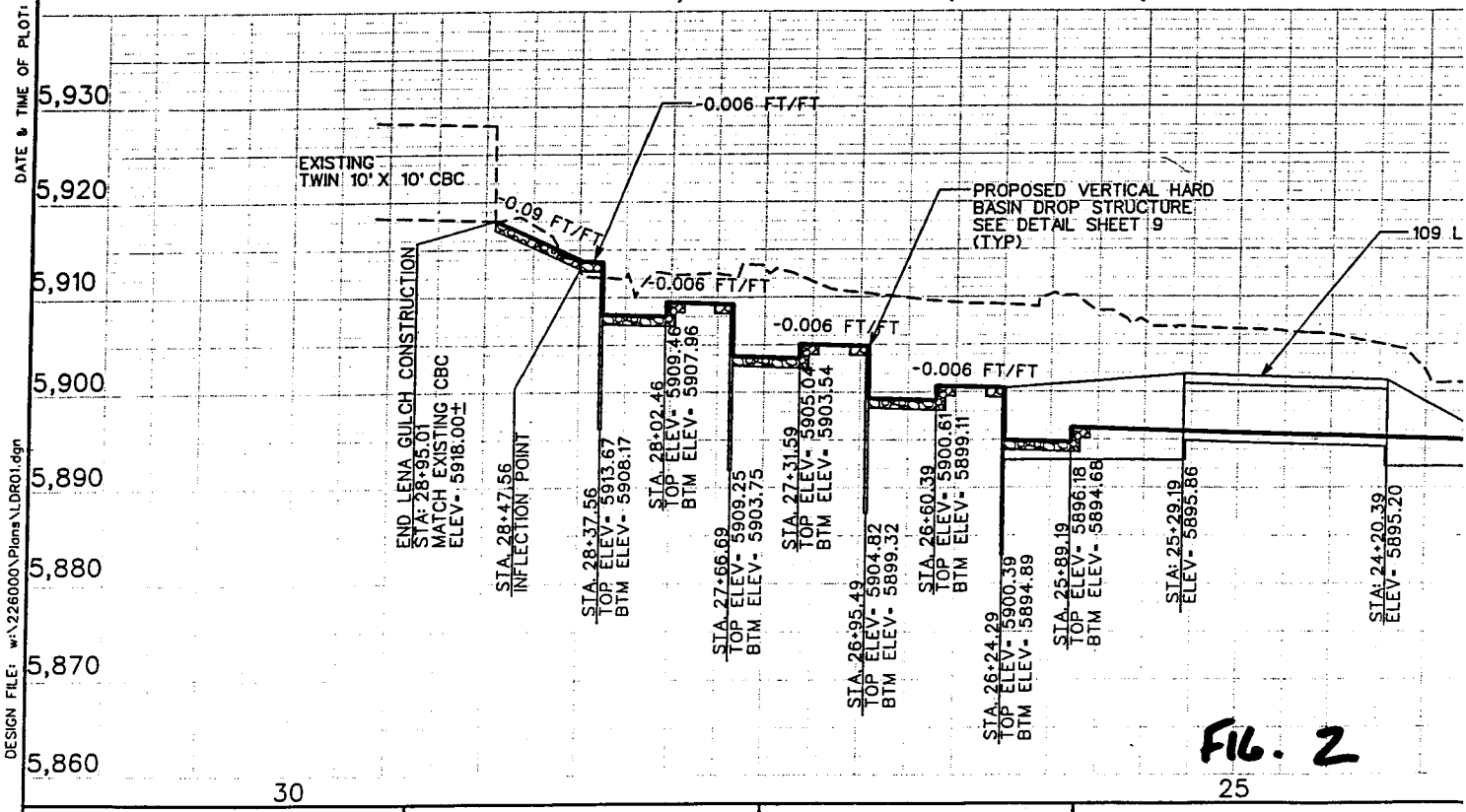
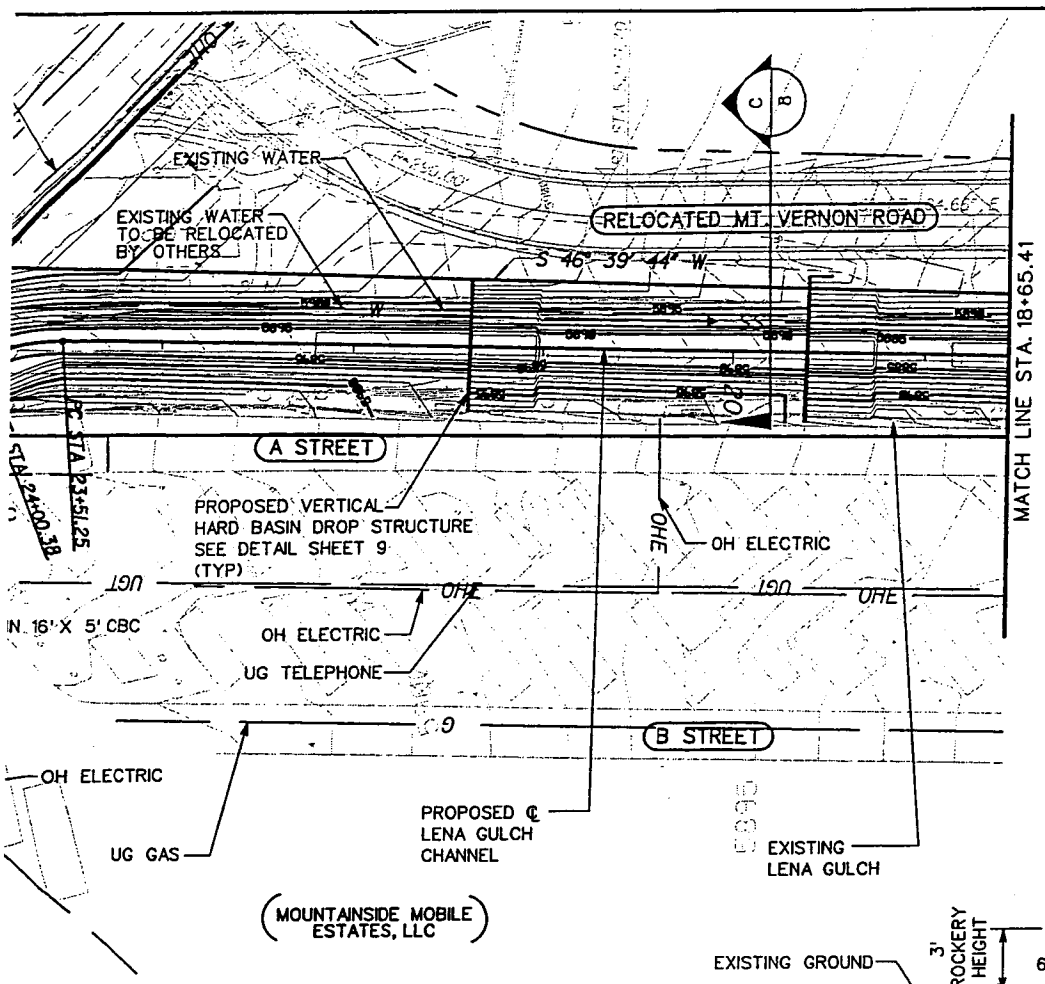


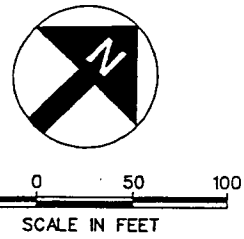
FIG. 2

DESIGN FILE: w:\226000\Plans\LDR01.dgn

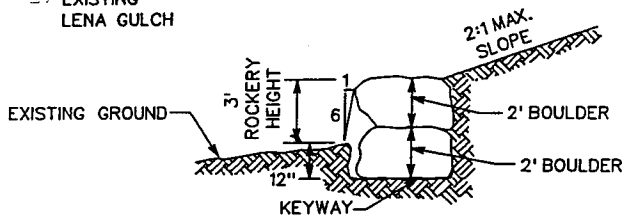
DATE & TIME OF PLOT: 4/22/03 14:01:21

GROUND CONTROL SURVEY BY: WASHINGTON TOPOGRAPHIC MAPPING BY: WASHINGTON CONTOUR INTERVAL - 1 FOOT	DESIGNED BY: _____ DATE _____ DRAWN: _____ DATE _____ CHECKED BY: _____ DATE _____	Washington Infrastructure Services, Inc.	URBAN DRAINAGE AND I CAPITAL IMPR JEFFERSON CC





CALL UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES



BOULDER WALL DETAIL
NTS

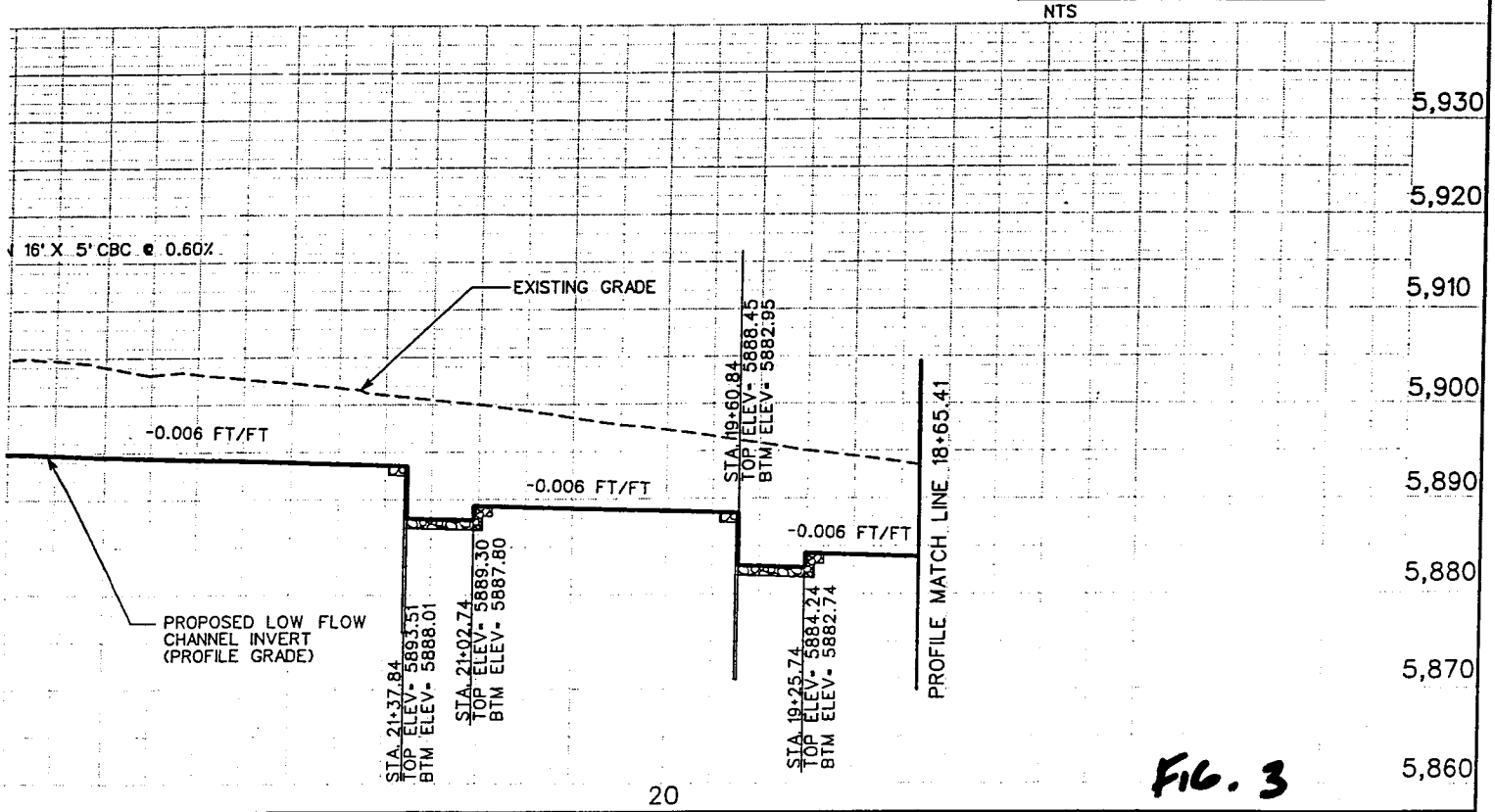


FIG. 3

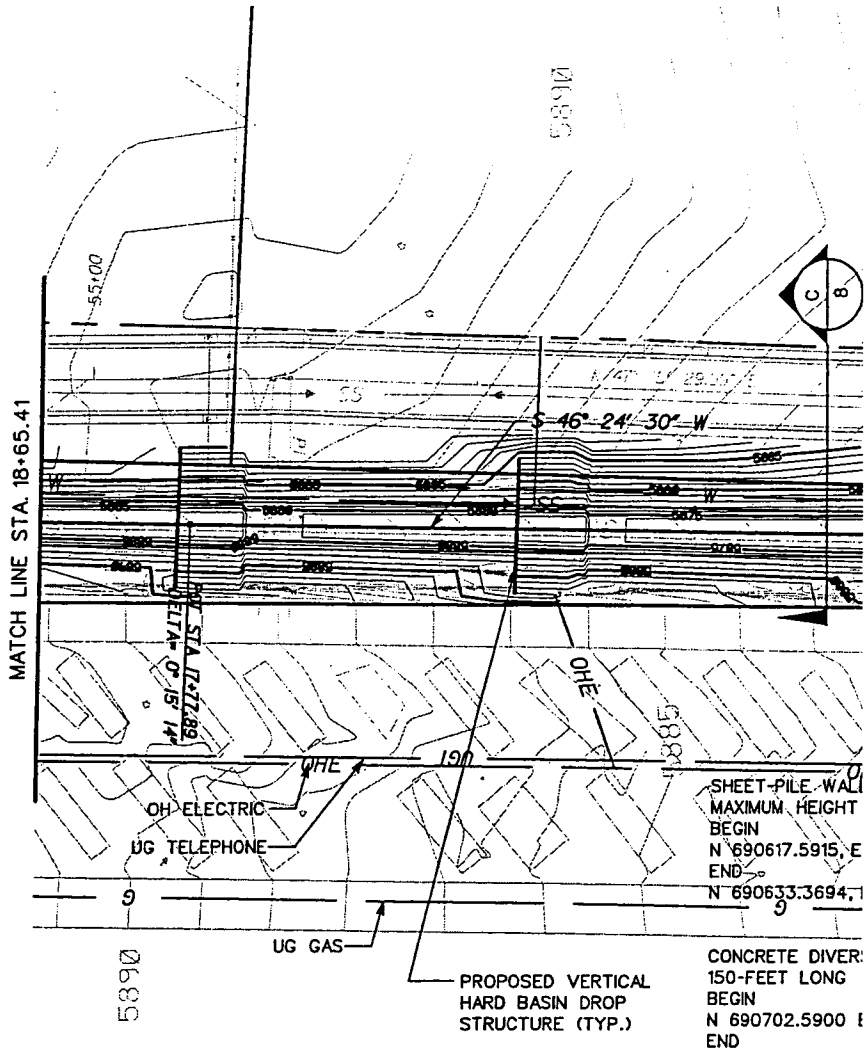
OD CONTROL DISTRICT
IT PROGRAM
TY, COLORADO

REVISION	NO.	DATE	DESCRIPTION

LENA GULCH AT MOUNTAINSIDE
LENA GULCH PLAN AND PROFILE

JEFFERSON COUNTY AND UDFCD PROJECT NO. 4-70-02-3401 SHEET 6 OF 11

WINGWALL DATA TABLE				
NO.	e	I	K	M
①	66.8°	15'	2'	6.33'
②	23.2°	15'	2'	6.33'
③	66.8°	10'	2'	5.00'
④	23.2°	8'	0'	5.00'



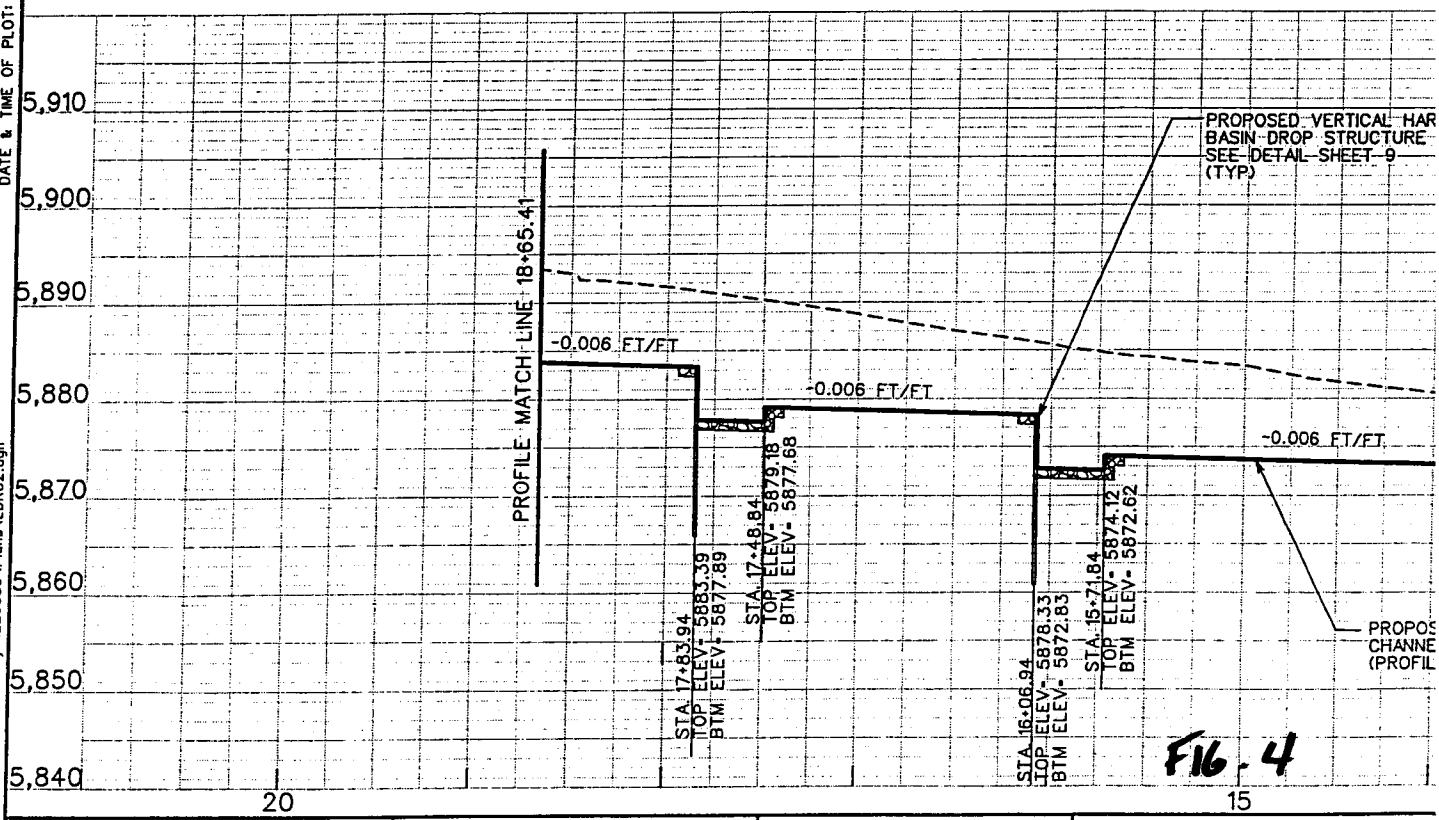


FIG. 4

DATE & TIME OF PLOT: 4/22/03 14:01:00

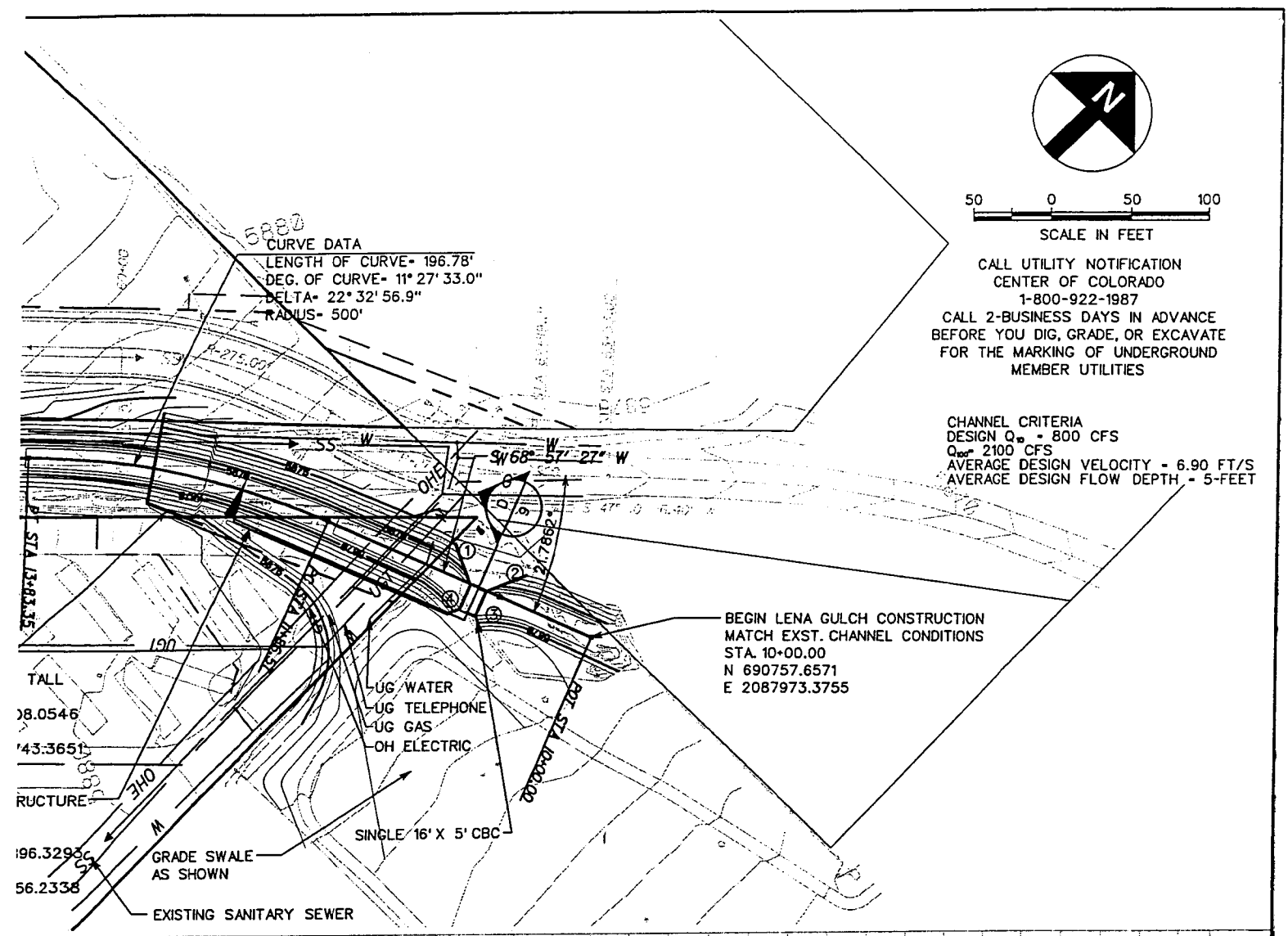
DESIGN FILE: y:\226000\Plans\LDR02.dgn

GROUND CONTROL SURVEY BY: WASHINGTON
TOPOGRAPHIC MAPPING BY: WASHINGTON
CONTOUR INTERVAL - 1 FOOT

DESIGNED BY:	PDC/DJJ	DATE	4/03
DRAWN:	EO	DATE	4/03
CHECKED BY:	DCW	DATE	4/03

Washington Infrastructure Services, Inc.

URBAN DRAINAGE AND
CAPITAL
JEFFERSON



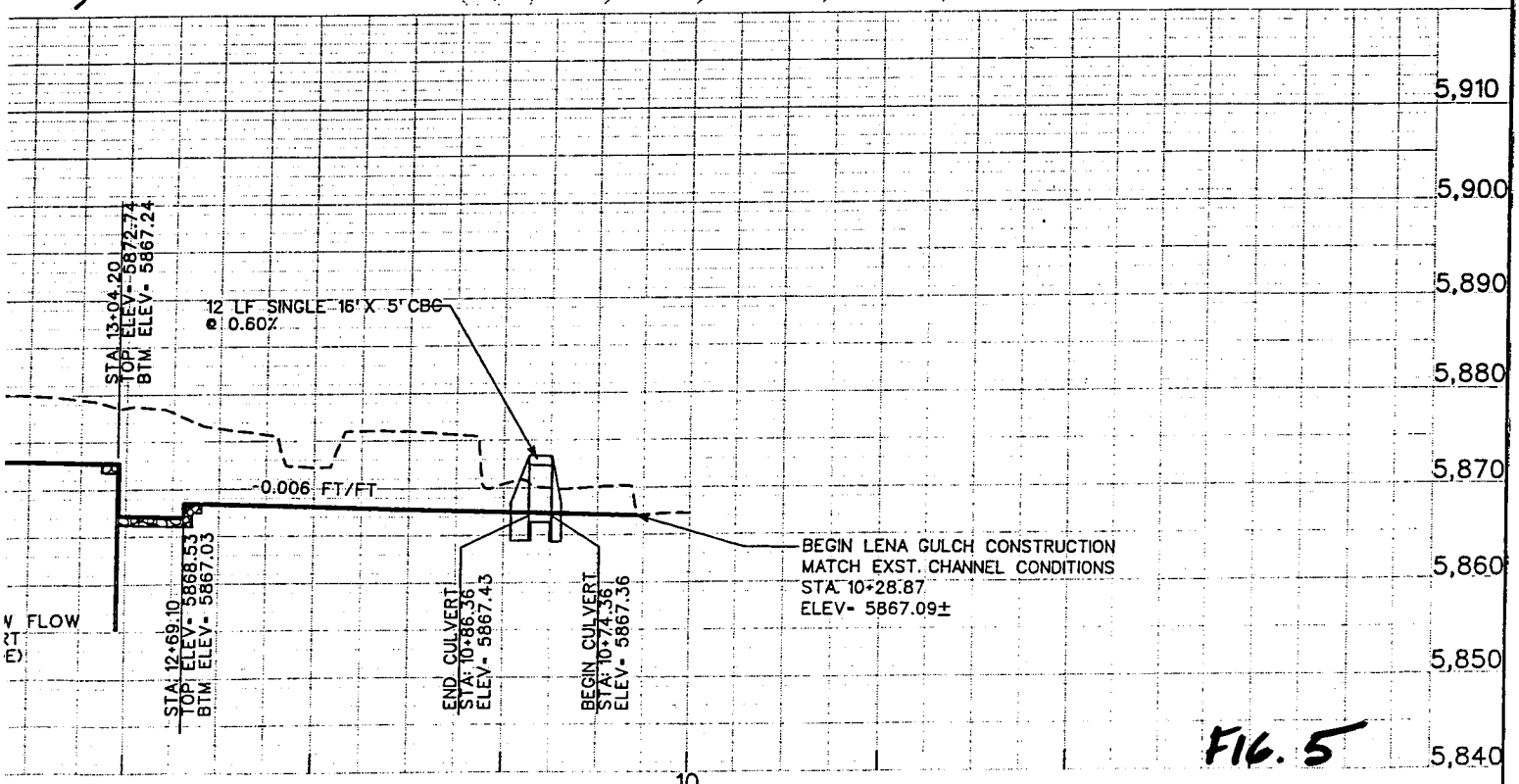


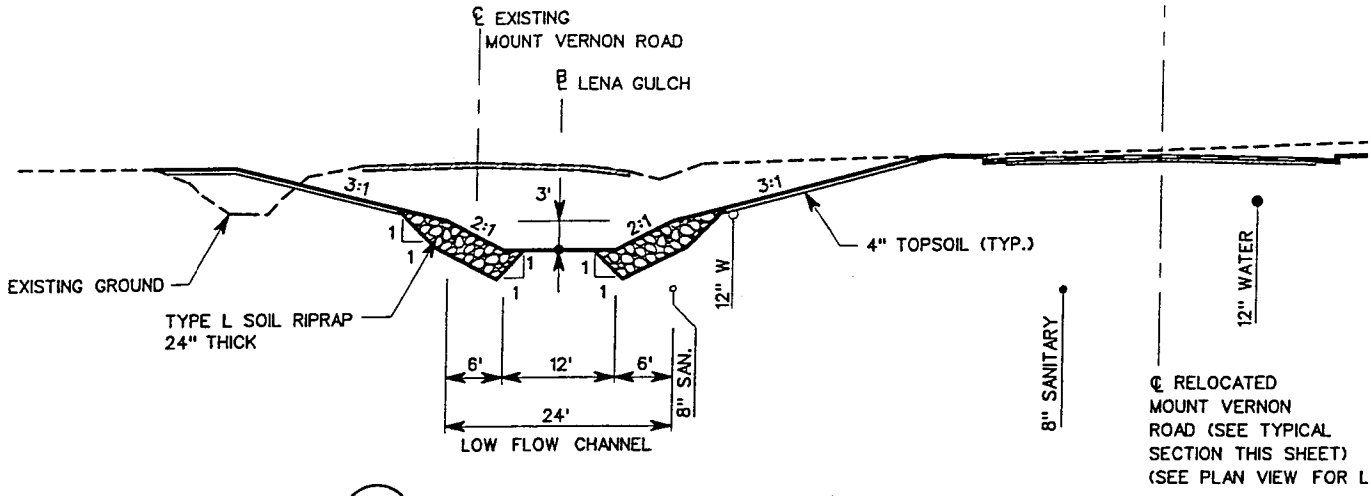
FIG. 5

OOD CONTROL DISTRICT
MENT PROGRAM
NTY, COLORADO

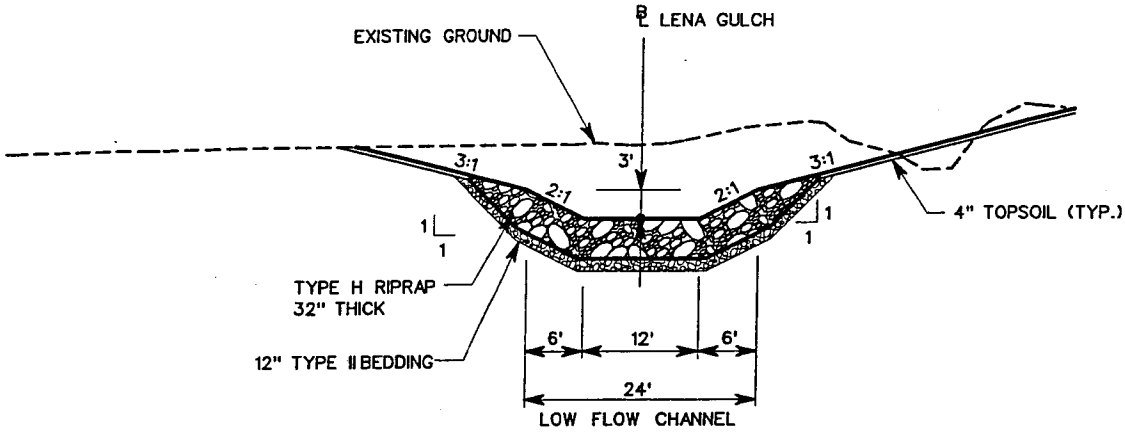
REVISION	NO.	DATE	DESCRIPTION

LENA GULCH AT MOUNTAINSIDE
LENA GULCH PLAN AND PROFILE

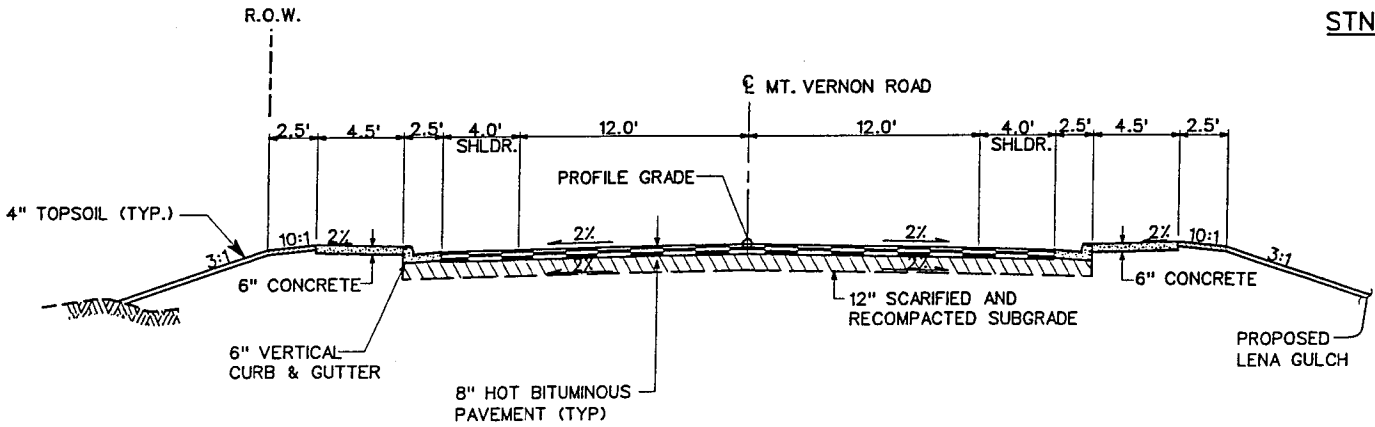
JEFFERSON COUNTY AND UDFCD PROJECT NO. 4-70-02-3401 SHEET 7 OF 11



C LENA GULCH TYPICAL SECTION
STA. 10+00.00 TO 28+37.56
N.T.S.



B LENA GULCH TYPICAL SECTION
STA. 28+37.56 TO MATCH EXISTING RIPRAP
N.T.S.



A MT. VERNON ROAD TYPICAL SECTION
N.T.S.

FIG. 6

STND-3 6

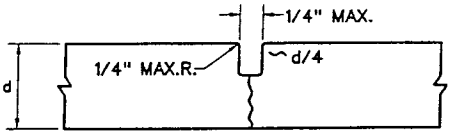
STND-11

NOTE:

DATE & TIME OF PLOT: 4/22/03 14:04:03

DESIGN FILE: w:\226000\Plans\DET01.dgn

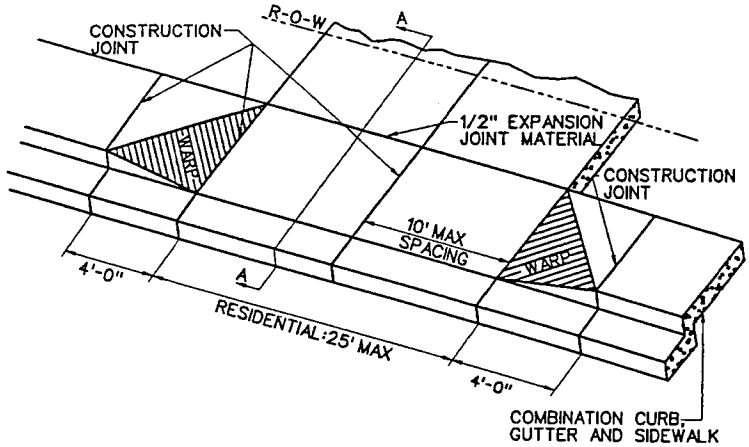
GROUND CONTROL SURVEY BY: WASHINGTON TOPOGRAPHIC MAPPING BY: WASHINGTON CONTOUR INTERVAL - 1 FOOT	DESIGNED BY: _____ DATE _____ DRAWN: _____ DATE _____ CHECKED BY: _____ DATE _____	Washington Infrastructure Services, Inc.	URBAN DRAINAGE AND F CAPITAL IMPRO JEFFERSON CO



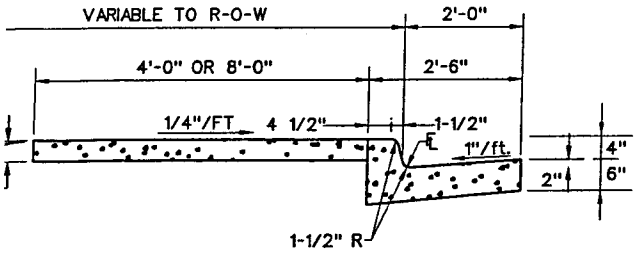
- MAXIMUM CONTRACTION JOINT SPACING FOR CURB,GUTTER AND SIDEWALKS IS 10 FEET.
- SAWCUT JOINTS (IF USED) SHALL BE AFTER CONCRETE HAS SUFFICIENTLY HARDENED, BUT BEFORE UNCONTROLLED CRACKING OCCURS.

STND-11 CONTRACTION JOINT

N.T.S.

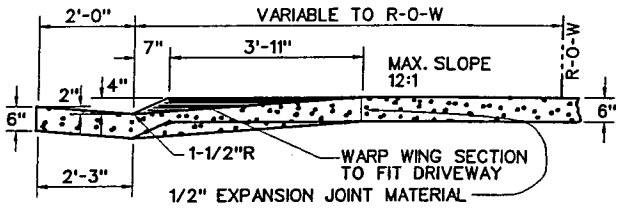


ION)



'ERTICAL CURB, GUTTER AND ATTACHED SIDEWALK

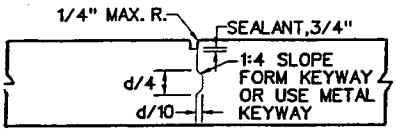
N.T.S.



SECTION A - A

STND-7 DRIVEWAY SECTION FOR 6" VERTICAL CURB AND GUTTER

N.T.S.

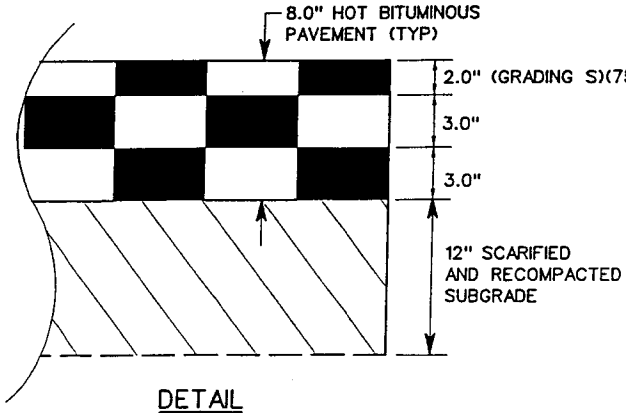


ERSE CONSTRUCTION JOINTS REQUIRED AT THE END OF EACH 'OUR AND WHEN THE POUR HAS BEEN SUSPENDED FOR 30 ; OR MORE.

IT LAYOUT AND JOINT DETAILS FOR CONCRETE STREETS SHALL SUBMITTED TO THE DEPARTMENT OF HIGHWAYS & TRANSPORTATION : APPROVAL.

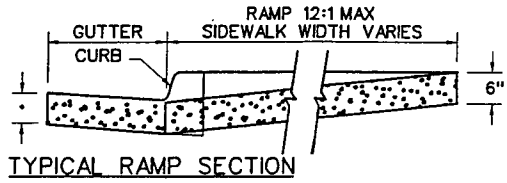
NGITUDINAL OR TRANSVERSE CONSTRUCTION JOINT

N.T.S.



DETAIL

LIFT THICKNESS (TYP.)



- 8" WHEN CROSSPAN IS REQUIRED
- 6" WHEN CROSSPAN NOT REQUIRED

TYPICAL RAMP SECTION

- THERE SHALL BE NO LIP WHERE THE RAMP MEETS THE GUTTER
- RAMP SURFACE SHALL HAVE A COARSE BROOM FINISH WITH GROOVES PLACED PERPENDICULAR TO THE SLOPE AT 12" INTERVALS.
- CURB RAMPS SHALL BE POURED MONOLITHICALLY WITH THE CURB, GUTTER AND APRON.

STND-5 CURB RAMP TYPICAL SECTION

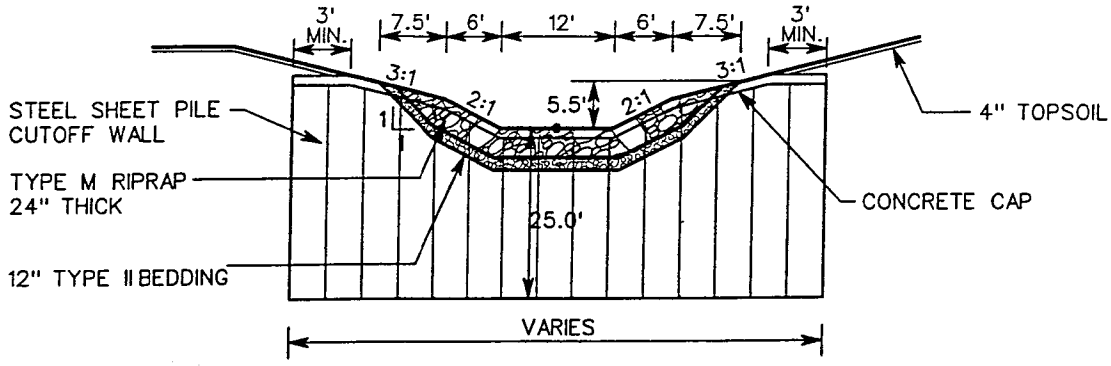
N.T.S.

FIG. 7

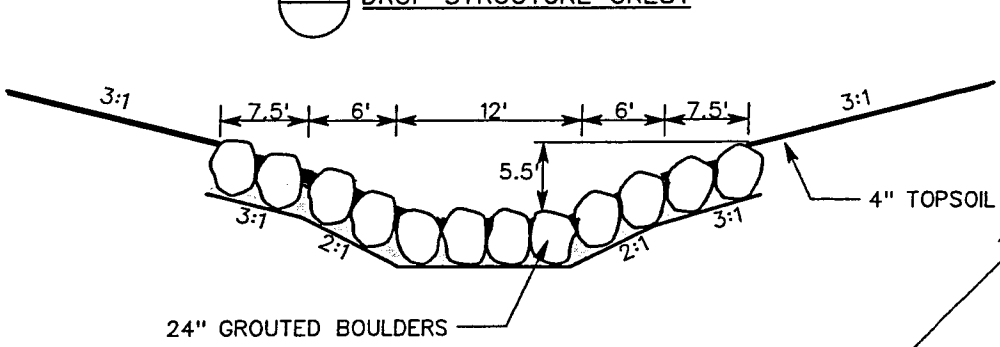
'OD CONTROL DISTRICT NT PROGRAM TY, COLORADO	REVISION	NO.	DATE	DESCRIPTION

LENA GULCH AT MOUNTAINSIDE
TYPICAL SECTIONS AND MISC. DETAILS

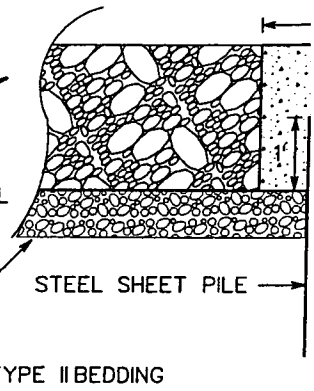
JEFFERSON COUNTY AND UDFCD PROJECT NO. 4-70-02-3401 SHEET 8 OF 11



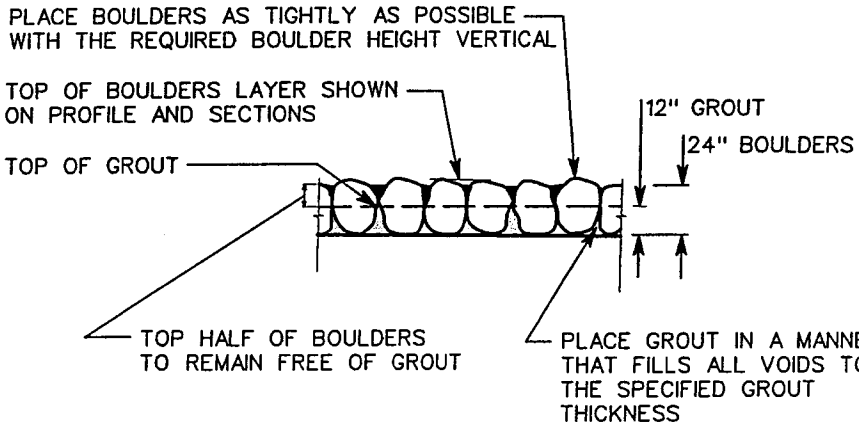
A DROP STRUCTURE CREST



B DROP STRUCTURE BASIN



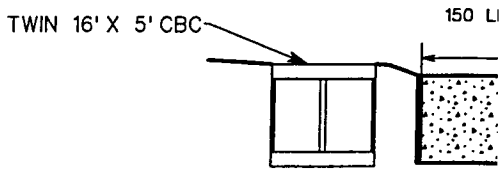
CONCRETE C



PROPOSED G

CONCRETE DIVE STRUCTURE

UNDISTURBED OR COMPACTED SUBGR.



NOTES:

1. GROUT MATERIALS AND PLACEMENT SHALL BE IN ACCORDANCE WITH SECTION 507 OF THE SPECIFICATIONS

2. ALL GEOTEXTILE SHOWN ON THIS SHEET SHALL BE EROSION CONTROL CLASS A AND SHALL MEET REQUIREMENTS OF SECTION 420 OF THE SPECIFICATIONS.

GROUTED BOULDER PLACEMENT DETAIL

N.T.S.

NOTES
1. USE

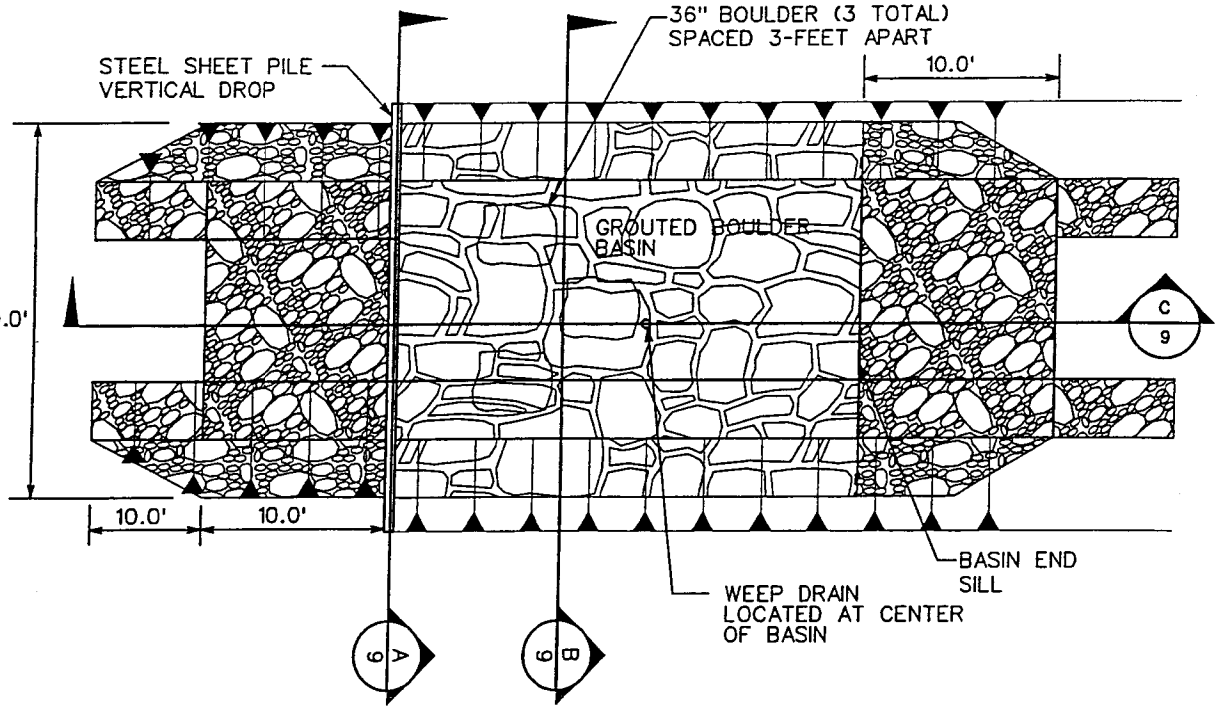
D CONCI

FIG. 8

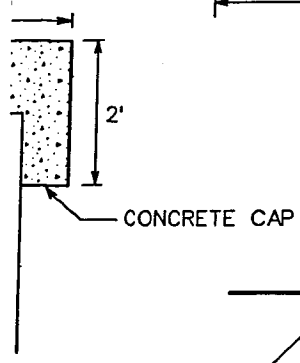
DESIGN FILE: w:\226000\Plans\DET03.dgn

DATE & TIME OF PLOT: 4/22/03 14:01:35

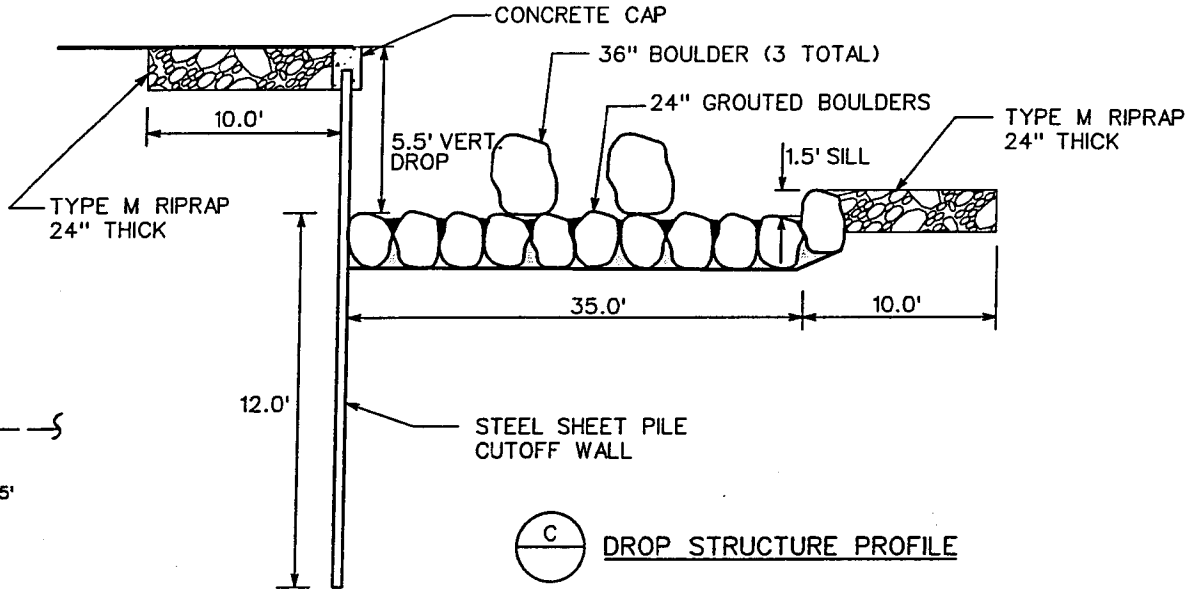
GROUND CONTROL SURVEY BY: WASHINGTON TOPOGRAPHIC MAPPING BY: WASHINGTON CONTOUR INTERVAL - 1 FOOT	DESIGNED BY: _____ DATE _____ DRAWN: _____ DATE _____ CHECKED BY: _____ DATE _____	Washington Infrastructure Services, Inc.	URBAN DRAINAGE AND F CAPITAL IMPRO JEFFERSON CO



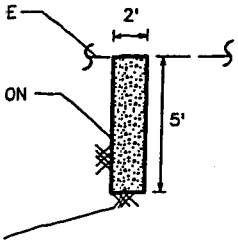
DROP STRUCTURE PLAN

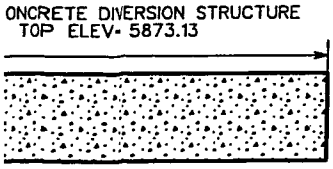


AT CREST



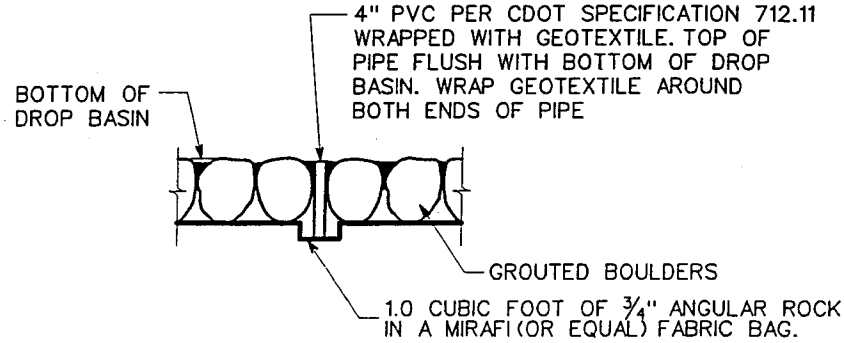
C DROP STRUCTURE PROFILE





:LASS B CONCRETE

TE DIVERSION STRUCTURE



WEEP DRAINS IN DROP BASIN
N.T.S.

FIG. 9

OOD CONTROL DISTRICT IENT PROGRAM NTY, COLORADO	REVISION	NO.	DATE	DESCRIPTION

LENA GULCH AT MOUNTAINSIDE
DROP STRUCTURE AND ROCK DETAILS

JEFFERSON COUNTY AND UDFCD PROJECT NO. 4-70-02-3401 SHEET 9 OF 11