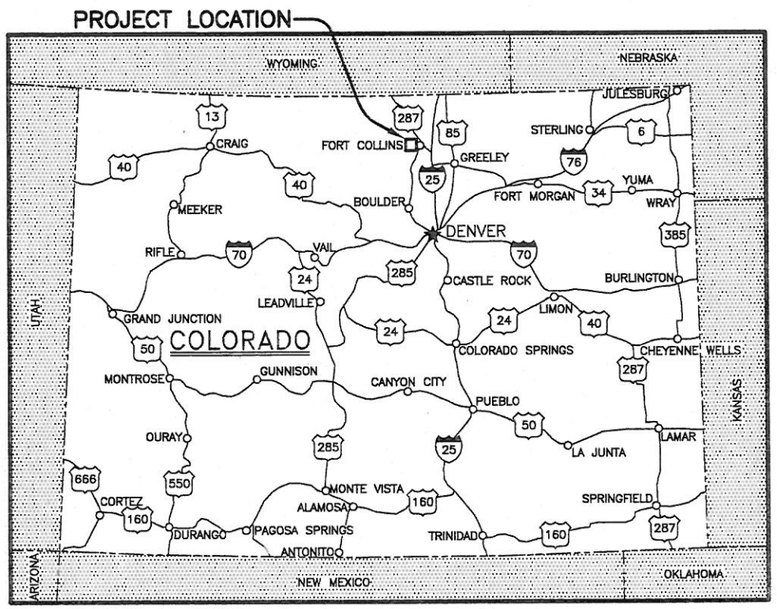
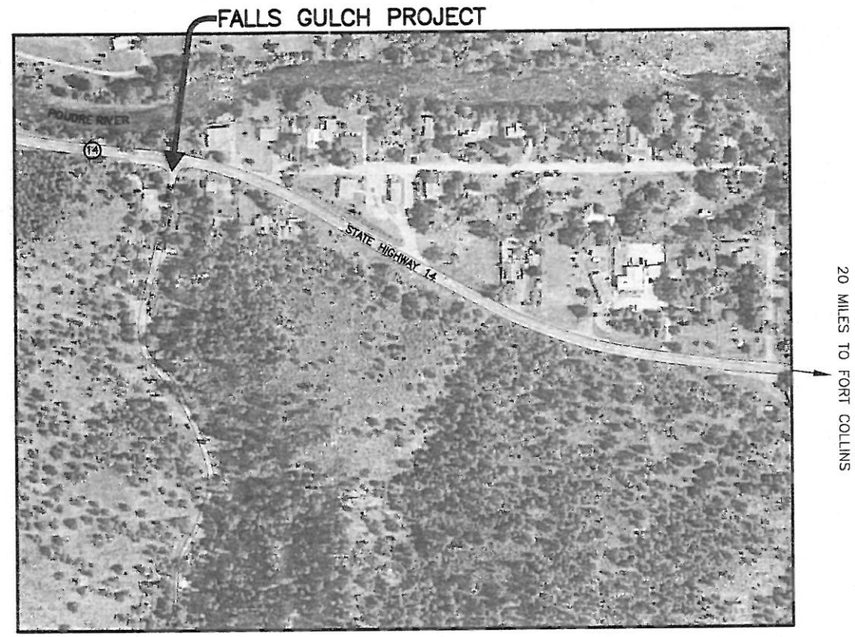
U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE
FALLS GULCH FLOOD PROTECTION RECOMMENDATIONS



N

COLORADO STATE MAP
NOT TO SCALE



PROJECT VICINITY MAP
NOT TO SCALE

INDEX OF DRAWINGS

TITLE	SHEET NO.
COVER SHEET	1
SITE PLAN	2
CROSS SECTIONS	3
CROSS SECTIONS	4
CHANNEL DEBRIS BARRIER	5

GENERAL NOTES

CONSTRUCTION SPECIFICATIONS

NO.	TITLE

CONSTRUCTION QUANTITIES

COOPERATOR AGREEMENT

THIS PLAN HAS BEEN DISCUSSED WITH ME BY THE NRCS AND I AM IN AGREEMENT WITH THE CALCULATIONS AND DESIGN. I WILL PROVIDE NRCS WITH THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) TICKET NUMBER MY CONTRACTOR HAS ACQUIRED PRIOR TO START OF CONSTRUCTION.

_____ DATE: _____
COOPERATOR

UTILITY NOTIFICATION

NOTICE TO THE COOPERATOR AND CONTRACTOR

NO REPRESENTATION IS MADE BY THE NATURAL RESOURCES CONSERVATION SERVICE AS TO THE EXISTENCE OR NONEXISTENCE OF UNDERGROUND UTILITIES. CALL **2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.** CALL UTILITY NOTIFICATION CENTER OF COLORADO AT 1-800-922-1987 OR 811. IN THE METRO DENVER AREA CALL 303-232-0491 OR 811.

UNCC TICKET NUMBER: _____

CONSTRUCTION DATA & AS-BUILT DRAWINGS

LAYOUT BY:

_____ DATE: _____

CONTRACTOR NAME AND ADDRESS:

_____

_____

_____

CONSTRUCTION COMPLETED _____ DATE: _____

PRACTICE (DOES) (DOES NOT) MEET STANDARDS AND SPECIFICATIONS.

_____ DATE: _____

_____
TITLE:

AS-BUILT DRAWINGS REVIEWED AND APPROVED BY:

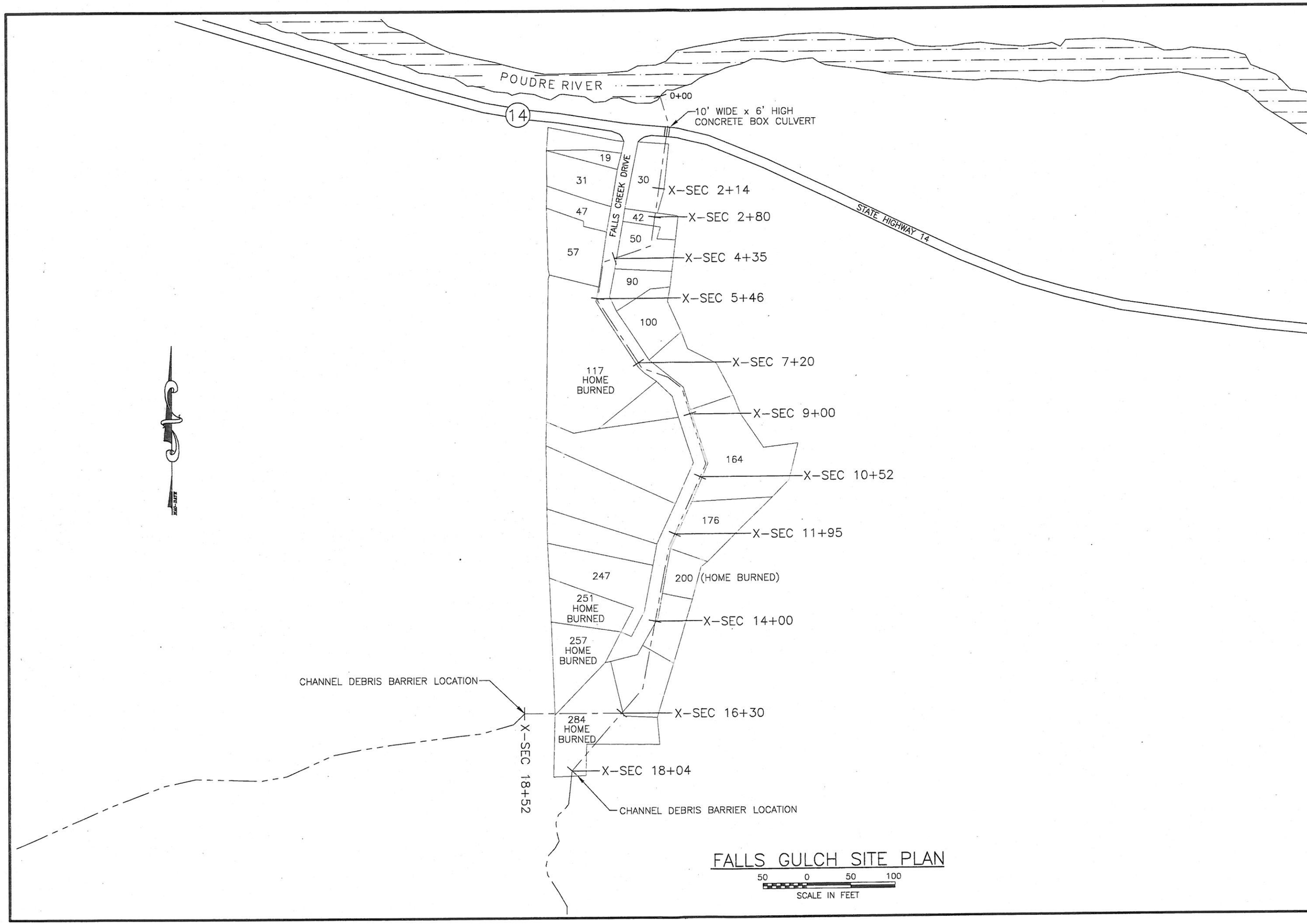
_____ DATE: _____
TITLE:

DATE 10/9/12
DESIGNED D. WOLFF
DRAWN D.D. DROUILLARD 10/9/12
CHECKED A. ALBIN
APPROVED

COVER SHEET
FALLS GULCH FLOOD PROTECTION RECOMENDATIONS
HIGH PARK BURN AREA
JOB CLASS _
LARIMER COUNTY COLORADO

NRCS
Natural Resources Conservation Service
United States Department of Agriculture

FILE NO.
DRAWING NO.
SHEET 1 OF 5



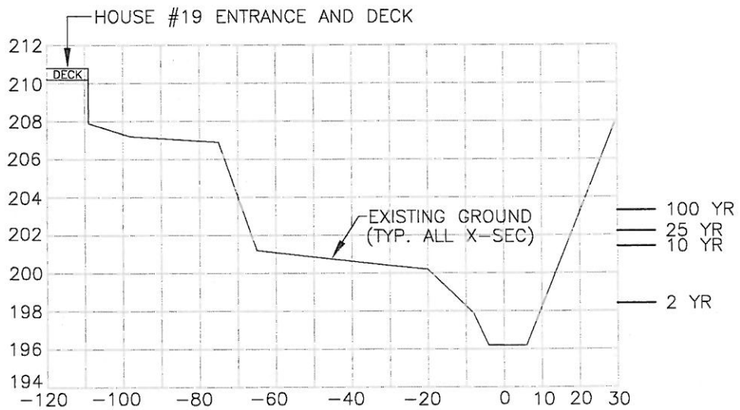
FALLS GULCH SITE PLAN

Designed D. WOLFF Date 10/22/12
Drawn D.D. DROULLARD 10/22/12
Checked A. ALBIN 10/22/12
Approved

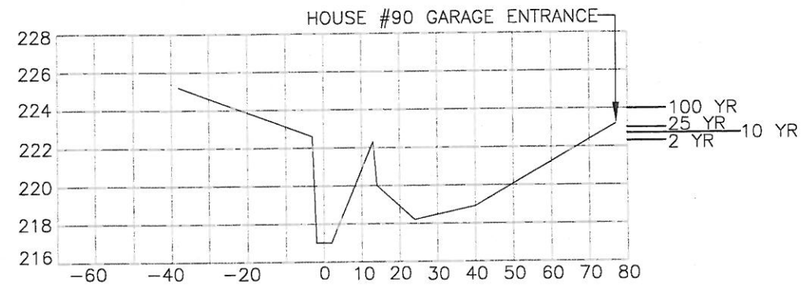
SITE PLAN
FALLS GULCH FLOOD PROTECTION RECOMMENDATIONS
HIGH PARK BURN AREA
LARIMER COUNTY COLORADO

NRCS
Natural Resources Conservation Service
United States Department of Agriculture

File No.
Drawing No.
Sheet of

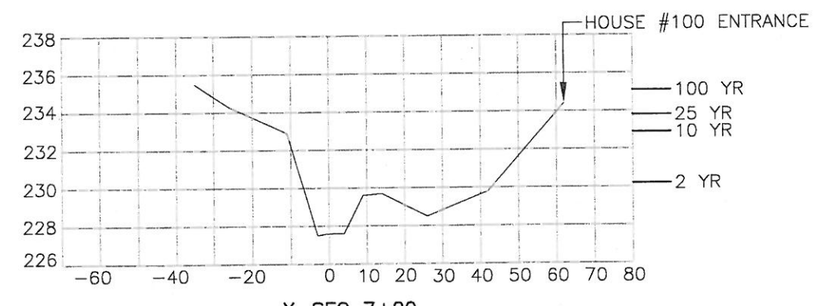


X-SEC 2+14
(789.89 S.F.)

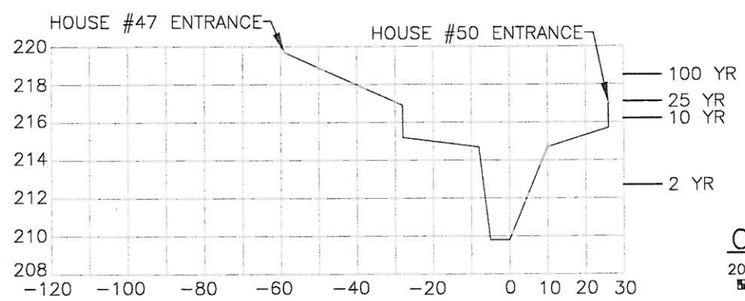


X-SEC 5+46
(266.67 S.F.)

X-SEC 2+80
(446.88 S.F.)



X-SEC 7+20
(339.74 S.F.)

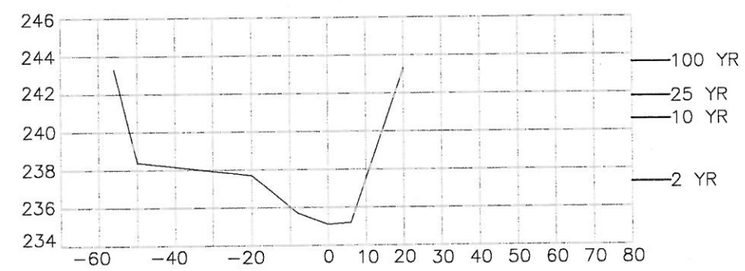


X-SEC 4+35
(167.61 S.F.)

CROSS SECTIONS

20 0 20 40
HORIZONTAL SCALE IN FEET

4 0 4 8
VERTICAL SCALE IN FEET



X-SEC 9+00
(420.20 S.F.)

RAINFALL TABLE

RETURN INTERVAL (YEARS)	DURATION (HOURS)	RAINFALL DEPTH (INCHES)
2	1	0.8
10	1	1.5
25	1	1.8
100	1	2.4

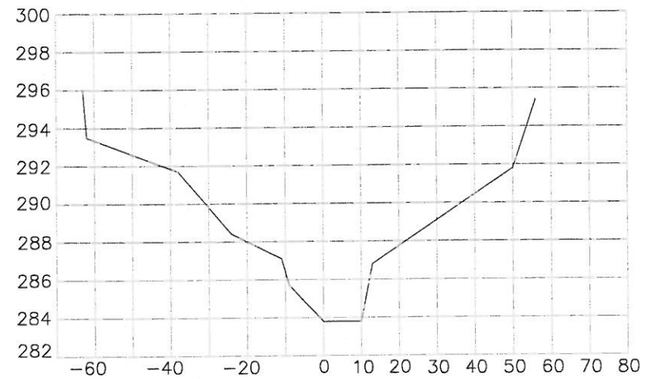
Designed D. WOLFF Date 10/22/12
Drawn D.D. DROULLARD 10/22/12
Checked A. ALBIN 10/22/12
Approved

CROSS SECTIONS
FALLS GULCH FLOOD PROTECTION RECOMMENDATIONS
HIGH PARK BURN AREA
LARIMER COUNTY COLORADO

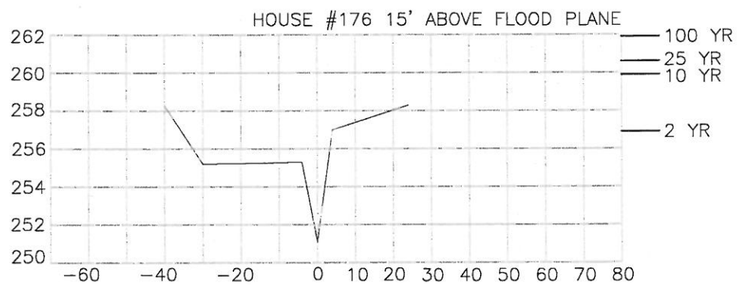
NRCS
Natural Resources Conservation Service
United States Department of Agriculture

File No.
Drawing No.
Sheet of

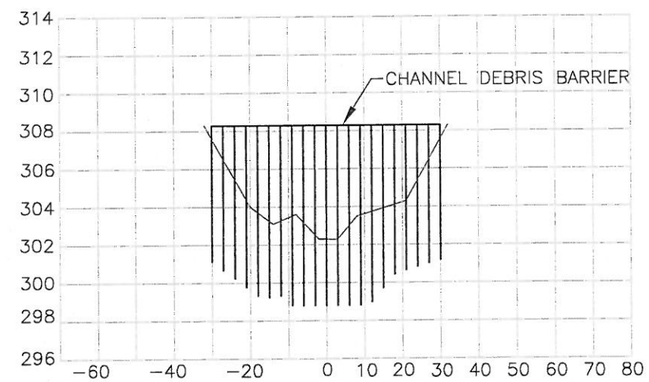
X-SEC 10+52
(48.49 S.F.)



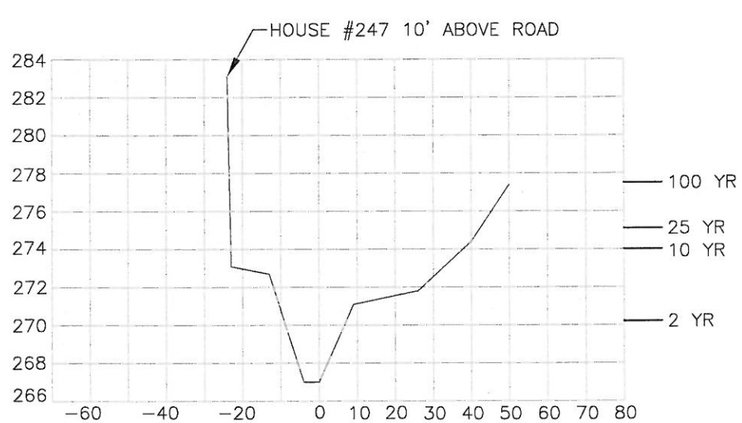
X-SEC 16+30
(738.92 S.F.)



X-SEC 11+95
(145.20 S.F.)



X-SEC 18+04
(252.30 S.F.)



X-SEC 14+00
(406.97 S.F.)

CROSS SECTIONS

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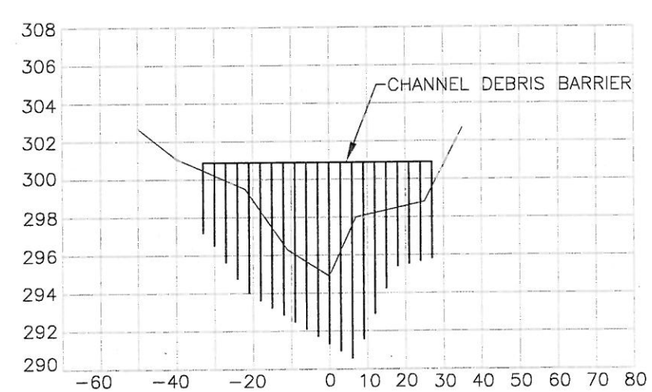
HORIZONTAL SCALE IN FEET

4 0 4 8
VERTICAL SCALE IN FEET



X-SEC 18+52
(322.75 S.F.)

RAINFALL TABLE

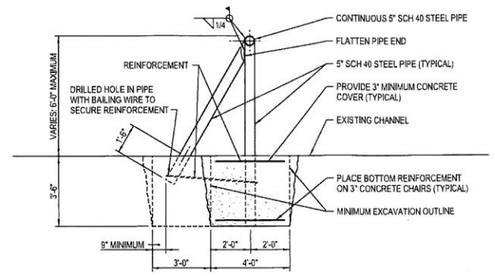
RETURN INTERVAL (YEARS)	DURATION (HOURS)	RAINFALL DEPTH (INCHES)
2	1	0.8
10	1	1.5
25	1	1.8
100	1	2.4

Designed D. WOLFF Date 10/22/12
Drawn D.D. DROULLARD Date 10/22/12
Checked A. ALBIN Date 10/22/12
Approved

CROSS SECTIONS
FALLS GULCH FLOOD PROTECTION RECOMMENDATIONS
HIGH PARK BURN AREA
LARIMER COUNTY COLORADO

NRCS
Natural Resources Conservation Service
United States Department of Agriculture

File No.
Drawing No.
Sheet of

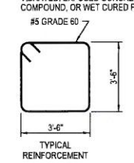


SECTION - A

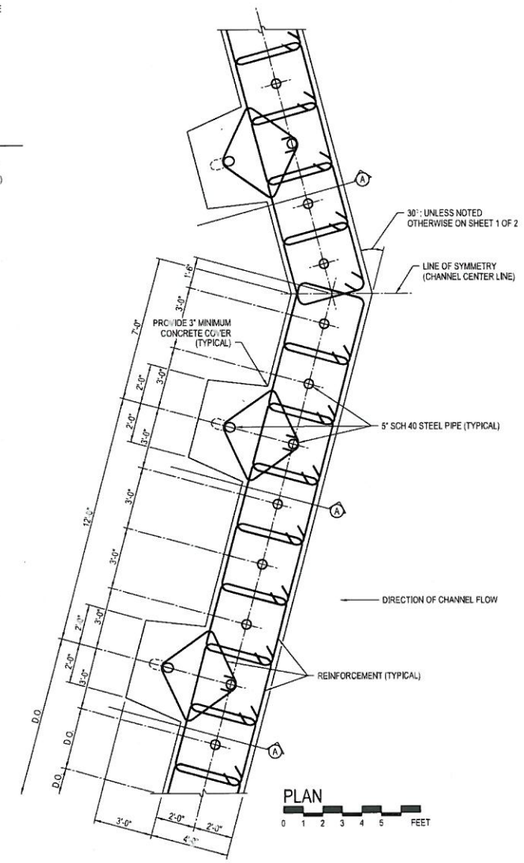
0 1 2 3 4 5 FEET

NOTES

1. LENGTH AND ALIGNMENT OF STRUCTURE TO BE DETERMINED ON A SITE SPECIFIC BASIS. SEE SHEET 1 OF 2 FOR DIMENSIONS AND ELEVATIONS.
2. IN LIEU OF 5" SCH 40 STEEL PIPE; STRUCTURAL STEEL TUBE SHAPES HAVING A SECTION MODULUS OF AT LEAST 4.5 IN³ MAY BE USED, OR 'W' OR 'T' SHAPES HAVING A SECTION MODULUS OF AT LEAST 4.9 IN³ MAY BE USED.
3. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 LB/IN²; AND SHALL HAVE A SLUMP BETWEEN 3 AND 5 INCHES. ALL CONCRETE SHALL BE VIBRATED. EXPOSED CONCRETE SURFACES SHALL BE COATED WITH CURING COMPOUND, OR WET CURED FOR 28 DAYS.



TYPICAL REINFORCEMENT



PLAN

0 1 2 3 4 5 FEET

		Date
Designed	Stanbaugh	AUG 2012
Drawn	Stanbaugh	AUG 2012
Checked	Marine	AUG 2012
Approved	Andrews	AUG 2012

CHANNEL DEBRIS BARRIER

DETAILS, REINFORCEMENT, AND SECTION
6-FOOT MAXIMUM HEIGHT

NRCS
Natural Resources Conservation Service
United States Department of Agriculture

File Name
XXXXXXXX

Drawing No.
XX - X - XXXX

Sheet 2 of 2