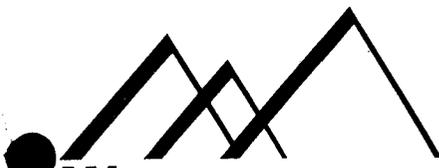


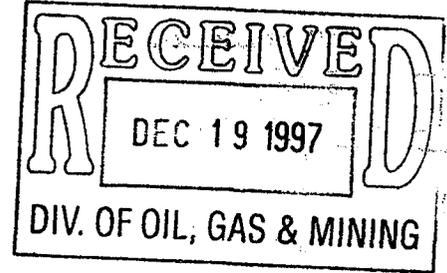
PHOTOS OF
— EROSIONAL MONITORING TRAVERSE —
J.B. KING NOV. 12, 1996

PHOTOS OF
— EROSIONAL MONITORING STATIONS —
J.B. KING NOV. 12, 1996



**WESTERN
STATES
MINERALS
CORPORATION**

December 15, 1997



Ms. Susan White
State of Utah
Division of Oil, Gas & Mining
1594 West North Temple, Suite 1210
P.O. 145801
Salt Lake City, Utah 84114-5801

**RE: Transmittal of photographic albums taken of the Erosional Monitoring Transects - J.B. King
Reclaimed Minesite, ACT/015/002, Folder #2, Emery County, Utah**

Dear Susan:

Copy Susan (letter)

Included in this transmittal are the following photographic albums:

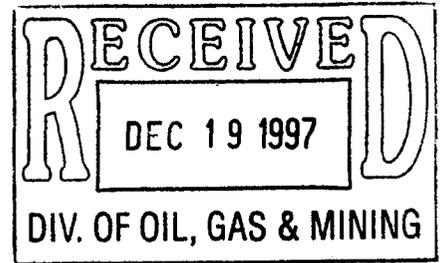
1. Photos of Erosional Monitoring Transects taken November 12, 1996. Also included with these photos are revised schematic drawings of the Erosional Monitoring Stations showing actual measurements taken during the same time period.
2. Photos of Erosional Monitoring Transects taken May 14, 1997. Also included in this album is a photo of the sign repairs that were completed during that same time period.
3. Photos of Erosional Monitoring Transects taken November 3 & 5, 1997. Also included in this album is a photo of the new spillway that was constructed for the sedimentation pond.

If you have any questions concerning this information, please call me at your convenience. I want to wish you and your family the warmest greetings for a very Christ-filled Christmas season.

Sincerely,



E.M. (Buzz) Gerick
Vice President of Operations



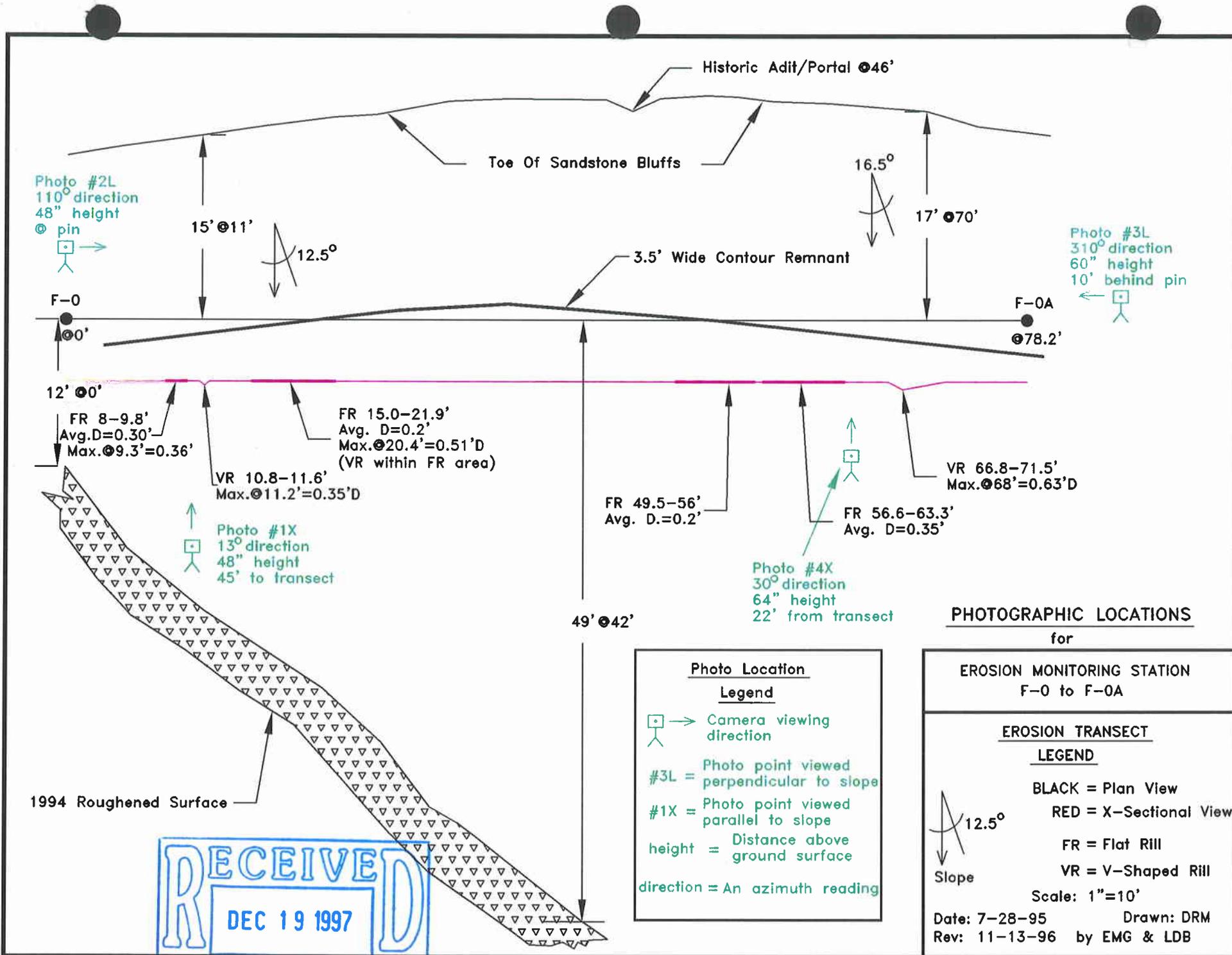
EROSION MONITORING STATIONS

for the

J. B. King Mine

**F-Series and A to D Series - X & L Sections
Photos taken November 12, 1996**

Prepared by Western States Minerals Corporation



PHOTOGRAPHIC LOCATIONS
for

EROSION MONITORING STATION
F-0 to F-0A

EROSION TRANSECT
LEGEND

BLACK = Plan View
 RED = X-Sectional View
 FR = Flat Rill
 VR = V-Shaped Rill
 Scale: 1"=10'

Date: 7-28-95 Drawn: DRM
 Rev: 11-13-96 by EMG & LDB

Photo Location Legend

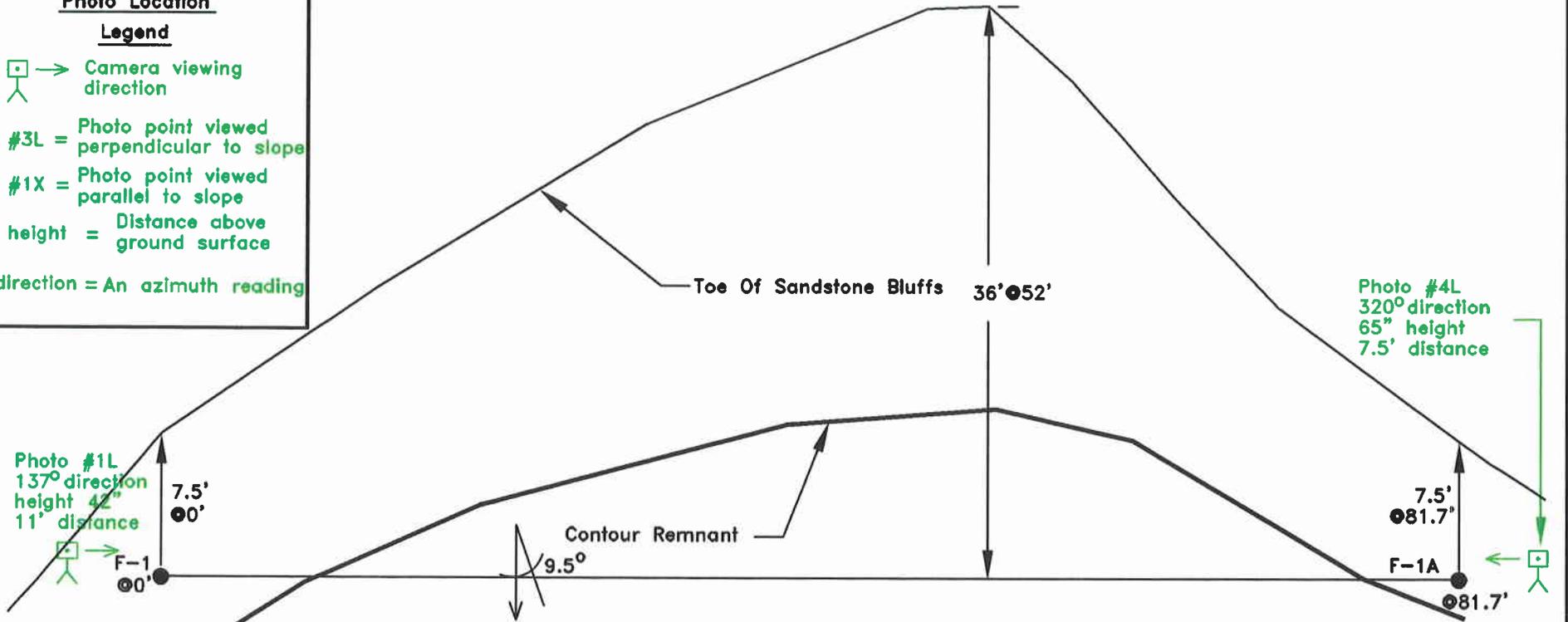
Camera viewing direction
 #3L = Photo point viewed perpendicular to slope
 #1X = Photo point viewed parallel to slope
 height = Distance above ground surface
 direction = An azimuth reading

RECEIVED
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 DIV. OF OIL, GAS & MINING

Photo Location

Legend

-  Camera viewing direction
- #3L = Photo point viewed perpendicular to slope
- #1X = Photo point viewed parallel to slope
- height = Distance above ground surface
- direction = An azimuth reading



VR 5.7-11'
Max. @ 9.1' = 0.79'D

VR 34-36'
Max. @ 34.8' = 0.5'D

VR 37-39.8'
Max. @ 38.9' = 1.2'D

Healed VR 42-43'
0'D.

VR 48-52'
Max. @ 50' = 0.58'D

VR 61.7-62.5'
Max. @ 62' = 0.38'D

VR 71.8-73.5'
Max. @ 72.3' = 0.35'D

Photo #2x
45 degree direction
65 inch height
40 foot distance

Photo #3X
64 degree direction
65 inch height
45 foot distance

PHOTOGRAPHIC LOCATIONS

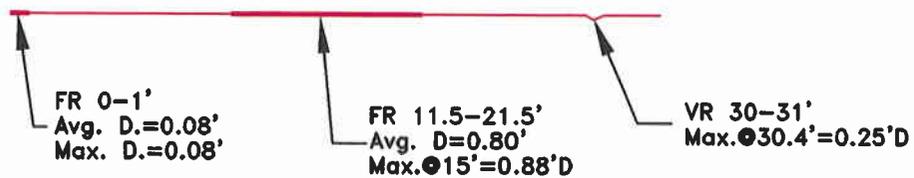
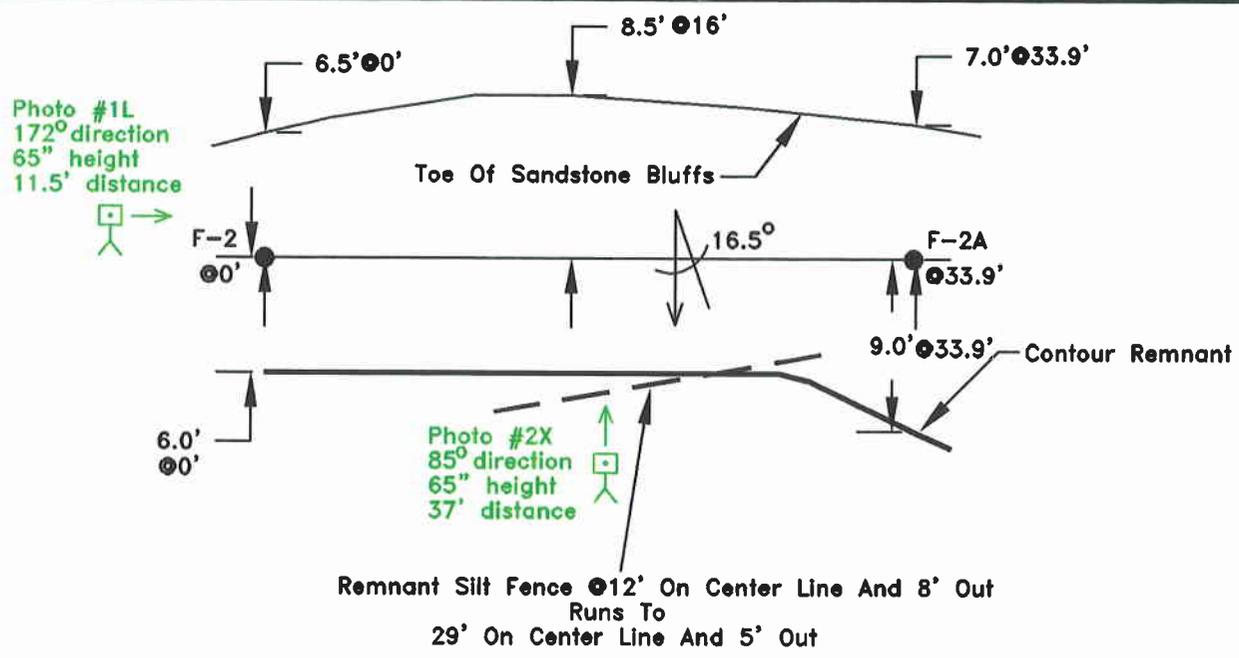
for
EROSION MONITORING STATION
F-1 to F-1A

EROSION TRANSECT

LEGEND

- BLACK = Plan View
- RED = X-Sectional View
- FR = Flat Rill
- VR = V-Shaped Rill
- Scale: 1" = 10'
- Date: 7-28-95
- Drawn: DRM
- Rev: 11-13-96 by EMG & LDB

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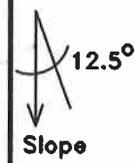


PHOTOGRAPHIC LOCATIONS
for

EROSION MONITORING STATION
F-2 to F-2A

EROSION TRANSECT

- LEGEND**
 BLACK = Plan View
 RED = X-Sectional View



- FR = Flat Rill
 VR = V-Shaped Rill

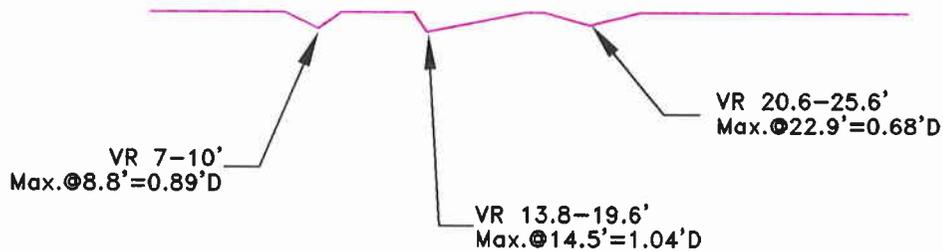
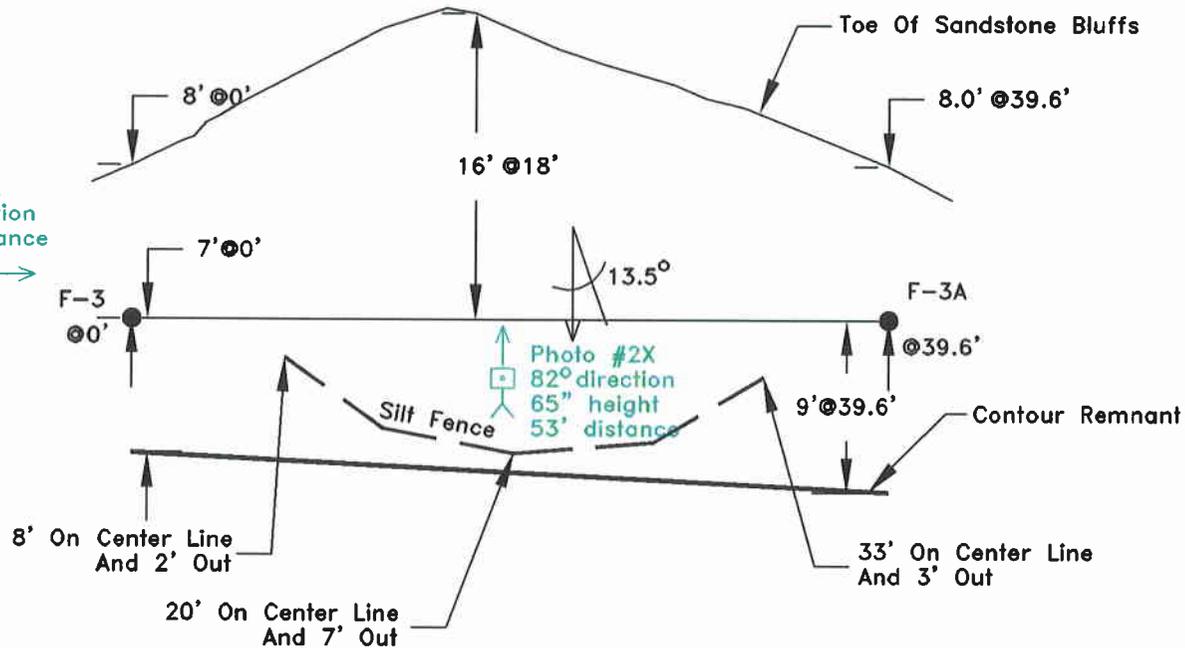
Scale: 1"=10'
 Date: 7-28-95 Drawn: DRM
 Rev: 11-13-96 by EMG & LDB

Photo Location Legend

Camera viewing direction
 #3L = Photo point viewed perpendicular to slope
 #1X = Photo point viewed parallel to slope
 height = Distance above ground surface
 direction = An azimuth reading

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Photo #1L
168° direction
12.5' distance



PHOTOGRAPHIC LOCATIONS

for

EROSION MONITORING STATION
F-3 to F-3A

EROSION TRANSECT

LEGEND

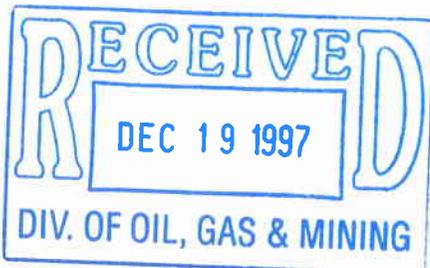
- BLACK = Plan View
- RED = X-Sectional View
- FR = Flat Rill
- VR = V-Shaped Rill
- Scale: 1" = 10'



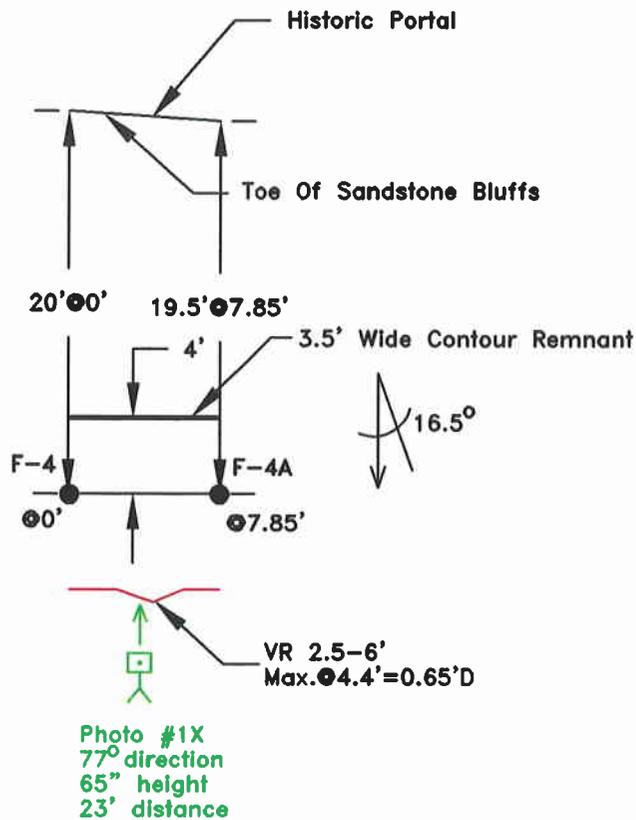
Photo Location

Legend

- Camera viewing direction
- #3L = Photo point viewed perpendicular to slope
- #1X = Photo point viewed parallel to slope
- height = Distance above ground surface
- direction = An azimuth reading



Date: 7-28-95 Drawn: DRM
Rev: 11-13-96 by EMG & LDB



PHOTOGRAPHIC LOCATIONS

for

EROSION MONITORING STATION
F-4 to F-4A

EROSION TRANSECT

LEGEND

BLACK = Plan View
RED = X-Sectional View

FR = Flat Rill
VR = V-Shaped Rill

Scale: 1"=10'

Date: 7-28-95

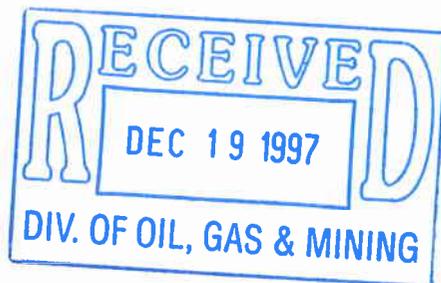
Drawn: DRM

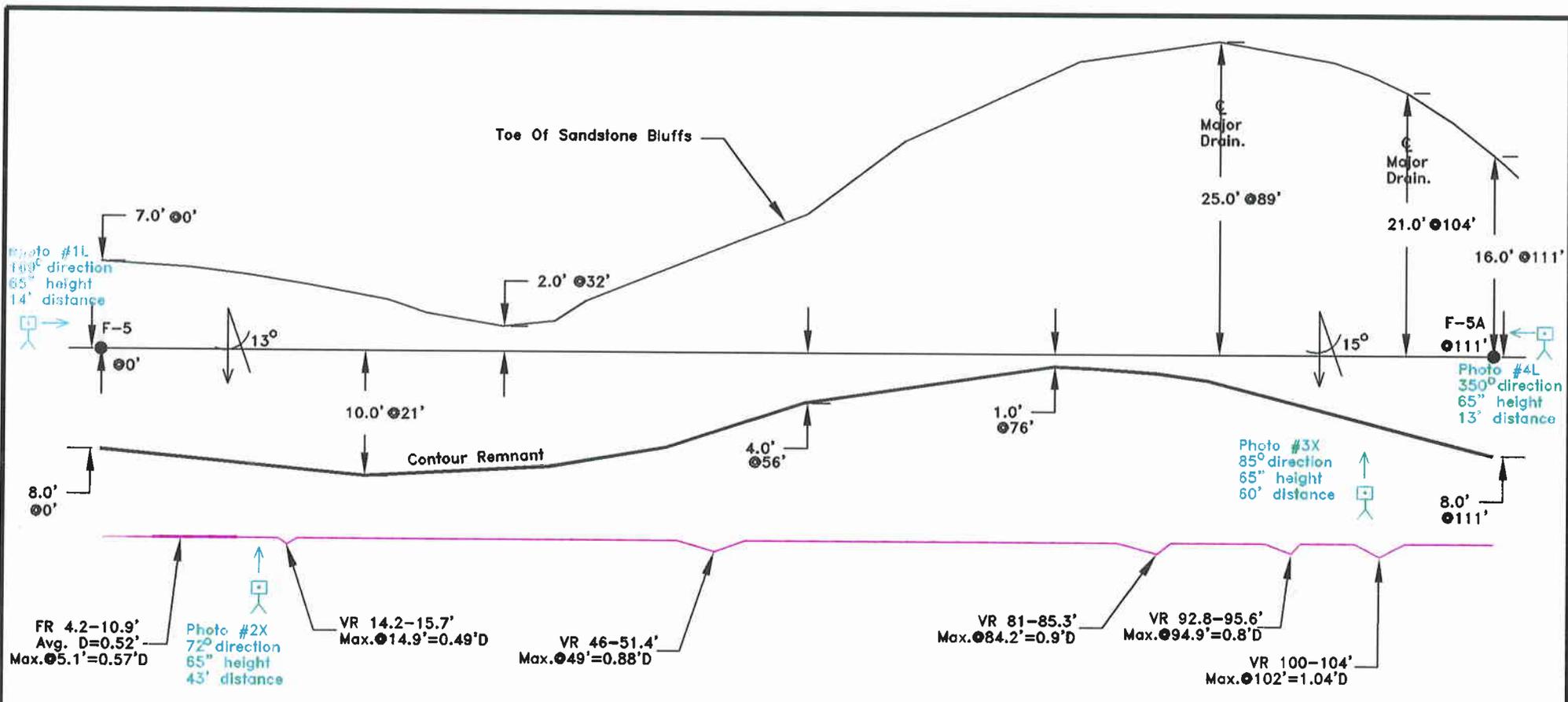
Rev: 11-13-96 by EMG & LDB

Photo Location

Legend

- Camera viewing direction
- #3L = Photo point viewed perpendicular to slope
- #1X = Photo point viewed parallel to slope
- height = Distance above ground surface
- direction = An azimuth reading





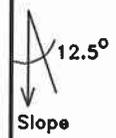
PHOTOGRAPHIC LOCATIONS
for

EROSION MONITORING STATION
F-5 to F-5A

EROSION TRANSECT

LEGEND

- BLACK = Plan View
- RED = X-Sectional View
- FR = Flat Rill
- VR = V-Shaped Rill
- Scale: 1"=12'



Date: 7-28-95 Drawn: DRM
Rev: 11-13-96 by EMG & LDB

Photo Location Legend

- Camera viewing direction
- #3L = Photo point viewed perpendicular to slope
- #1X = Photo point viewed parallel to slope
- height = Distance above ground surface
- direction = An azimuth reading

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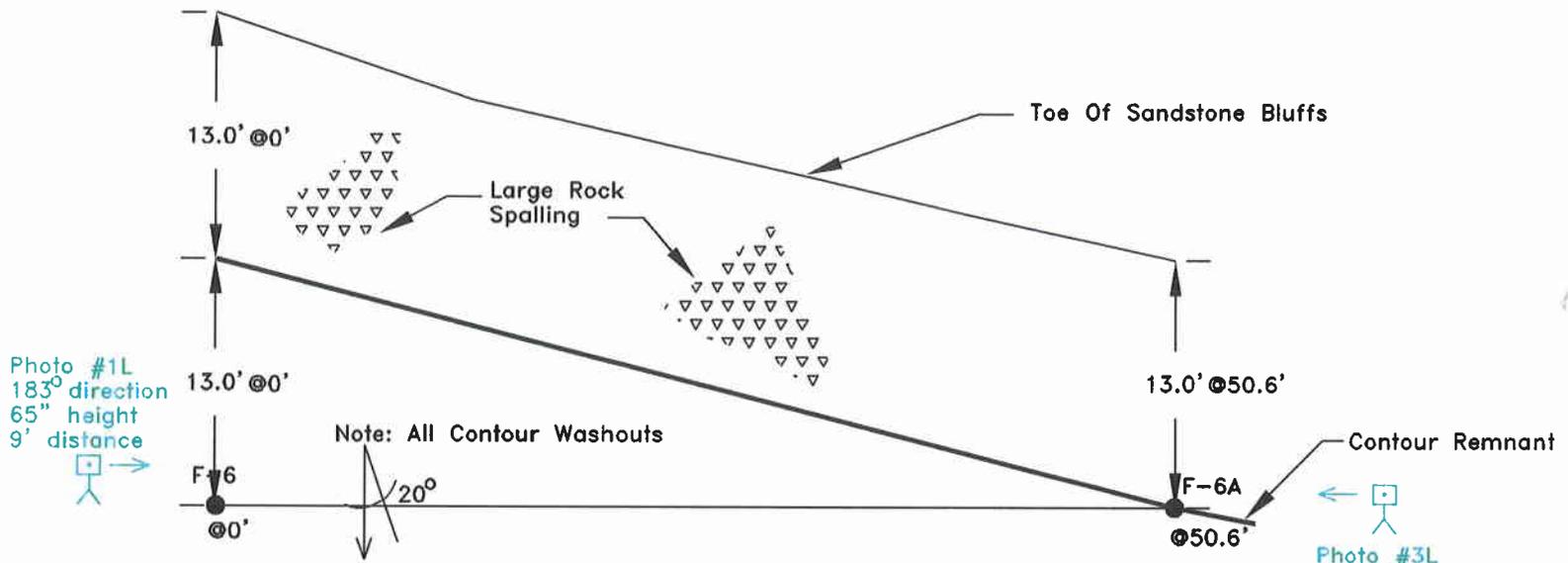


Photo #1L
183° direction
65" height
9' distance

Photo #3L
4° direction
65" height
11' distance

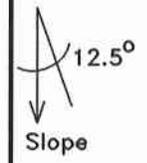
Photo #2X
99° direction
65" height
29' distance

PHOTOGRAPHIC LOCATIONS
for

EROSION MONITORING STATION
F-6 to F-6A

EROSION TRANSECT
LEGEND

- BLACK = Plan View
- RED = X-Sectional View
- FR = Flat Rill
- VR = V-Shaped Rill
- Scale: 1"=10'



Date: 7-28-95 Drawn: DRM
Rev: 11-13-96 by EMG & LDB

Photo Location Legend

- Camera viewing direction
- #3L = Photo point viewed perpendicular to slope
- #1X = Photo point viewed parallel to slope
- height = Distance above ground surface
- direction = An azimuth reading

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DIV. OF OIL, GAS & MINING

Photo #1L
182° direction
65" height
13' distance

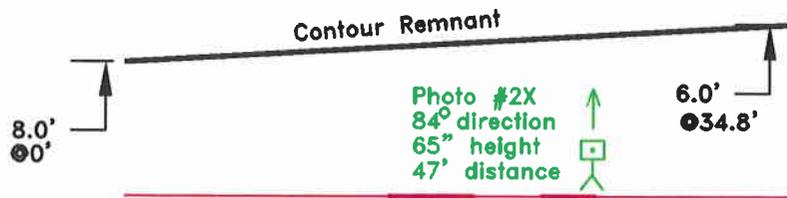
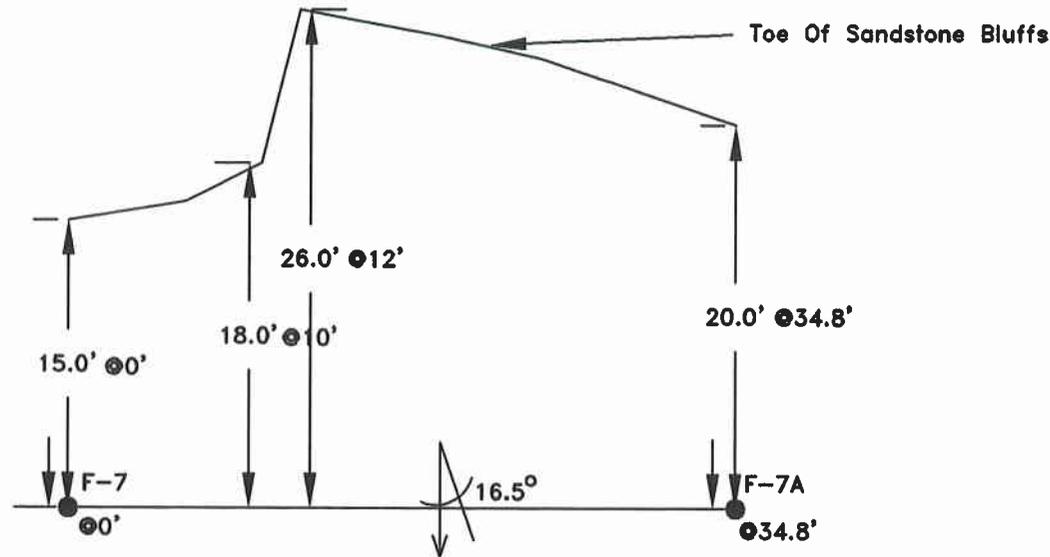


Photo #2X
84° direction
65" height
47' distance

FR 13.7-18.2'
Avg. D=0.26'
Max. @ 14.6'=0.35'D

FR 21.7-24.6'
Avg. D=0.23'
Max. @ 22.3'=0.35'D

Photo Location Legend

- Camera viewing direction
- #3L = Photo point viewed perpendicular to slope
- #1X = Photo point viewed parallel to slope
- height = Distance above ground surface
- direction = An azimuth reading

PHOTOGRAPHIC LOCATIONS

for

EROSION MONITORING STATION
F-7 to F-7A

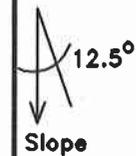
EROSION TRANSECT

LEGEND

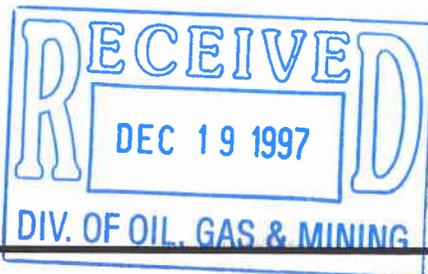
BLACK = Plan View
RED = X-Sectional View

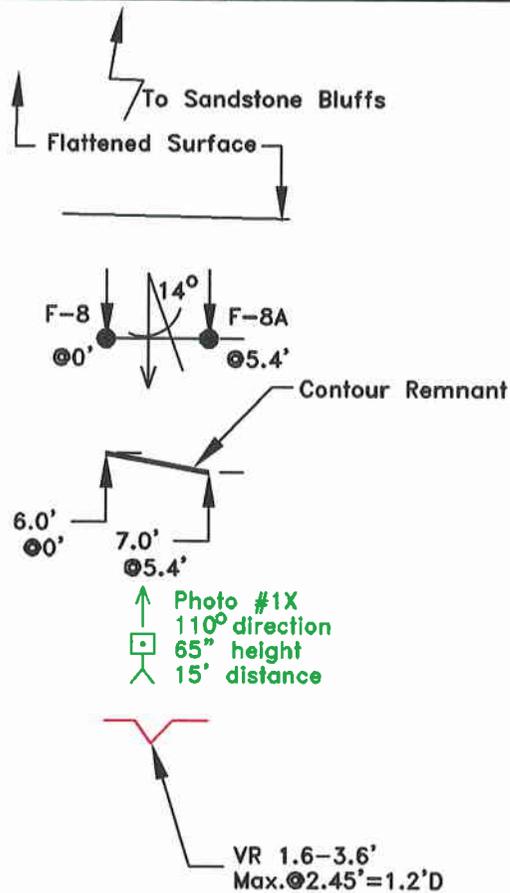
FR = Flat Rill
VR = V-Shaped Rill

Scale: 1"=10'



Date: 7-28-95 Drawn: DRM
Rev: 11-13-96 by EMG & LDB





PHOTOGRAPHIC LOCATIONS

for

**EROSION MONITORING STATION
F-8 to F-8A**

EROSION TRANSECT

LEGEND

BLACK = Plan View
RED = X-Sectional View

FR = Flat Rill
VR = V-Shaped Rill

Scale: 1"=10'



Date: 7-28-95 Drawn: DRM
Rev: 11-13-96 by EMG & LDB

Photo Location

Legend

- Camera viewing direction
- #3L = Photo point viewed perpendicular to slope
- #1X = Photo point viewed parallel to slope
- height = Distance above ground surface
- direction = An azimuth reading

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Photo #1L
205° direction
65" height
10' distance



F-9

00'

13.0' 00'

12.5°

Photo #2X
90° direction
65" height
15' distance



Photo #3X
95° direction
65" height
17' distance



F-9A

44.5'

Photo #4L
24° direction
65" height
7' distance



Rills Begin At Crest
Of Flat Area And Slope

Flattened Area

To Sandstone Bluffs

Contour Remnant

8.0'
44.5'

Silt Fence

VR 1.7-6.2'
Max. 3.7' = 1.28'D

VR 7.7-9.1'
Max. 8.4' = 0.6'D

FR 11.6-13.2'
Max. 12.5' = 0.31'D

VR 14-19'
Max. 18' = 0.4'D
Repaired And Healed

VR 25.6-28.3'
Max. ? = 1.18'D

VR 30.5-35.8'
Max. 33.7' = 1.35'D

VR 40.1-43.4'
Max. 42' = 1.7'D

PHOTOGRAPHIC LOCATIONS
for

EROSION MONITORING STATION
F-9 to F-9A

EROSION TRANSECT

LEGEND

- BLACK = Plan View
- RED = X-Sectional View
- FR = Flat Rill
- VR = V-Shaped Rill
- Scale: 1"=10'



Photo Location

Legend

- Camera viewing direction
- #3L = Photo point viewed perpendicular to slope
- #1X = Photo point viewed parallel to slope
- height = Distance above ground surface
- direction = An azimuth reading

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DEC 19 1997
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Date: 7-28-95 Drawn: DRM
Rev: 11-13-96 by EMG & LDB

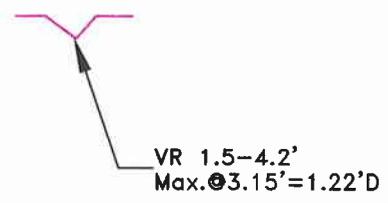
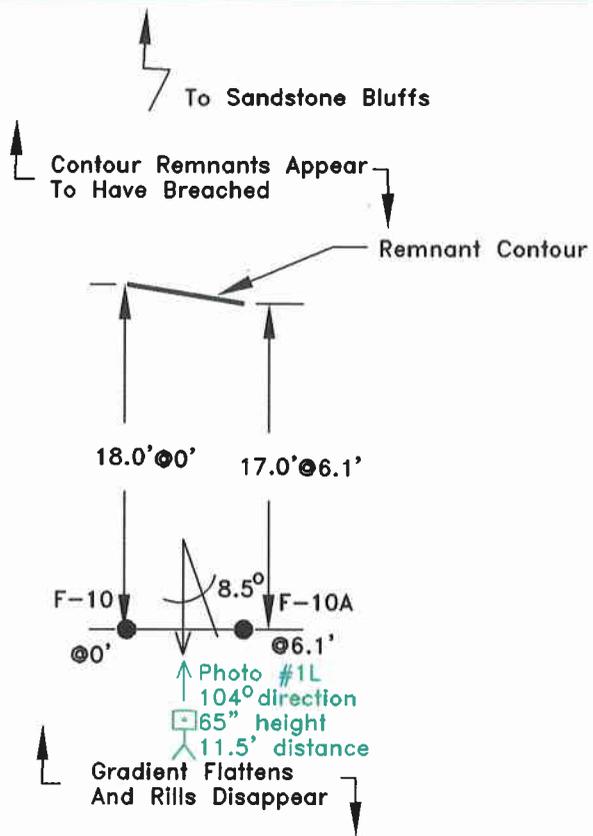


Photo Location Legend

→ Camera viewing direction
 #3L = Photo point viewed perpendicular to slope
 #1X = Photo point viewed parallel to slope
 height = Distance above ground surface
 direction = An azimuth reading

RECEIVED
 DEC 19 1997
 DIV. OF OIL, GAS & MINING

PHOTOGRAPHIC LOCATIONS

for

EROSION MONITORING STATION
F-10 to F-10A

EROSION TRANSECT

LEGEND

BLACK = Plan View
 RED = X-Sectional View
 FR = Flat Rill
 VR = V-Shaped Rill
 Scale: 1"=10'
 Date: 7-28-95 Drawn: DRM
 Rev: 11-13-96 by EMG & LDB

To Sandstone Bluffs

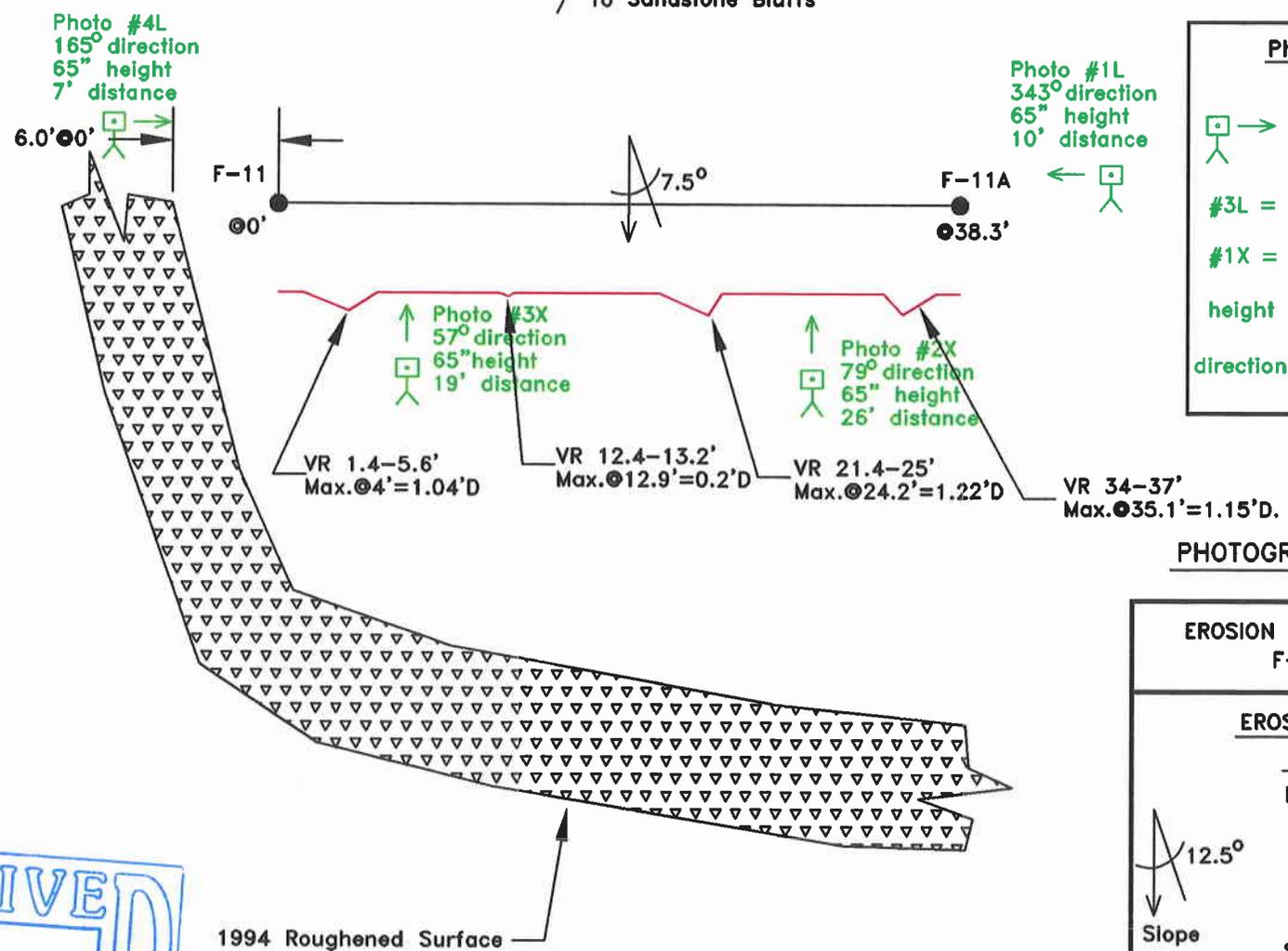


Photo Location Legend

Camera viewing direction

#3L = Photo point viewed perpendicular to slope

#1X = Photo point viewed parallel to slope

height = Distance above ground surface

direction = An azimuth reading

PHOTOGRAPHIC LOCATIONS

for

EROSION MONITORING STATION
F-11 to F-11A

EROSION TRANSECT LEGEND

BLACK = Plan View

RED = X-Sectional View

FR = Flat Rill

VR = V-Shaped Rill

Scale: 1" = 10'

Date: 7-28-95 Drawn: DRM

Rev: 11-13-96 by EMG & LDB

RECEIVED
DEC 19 1997
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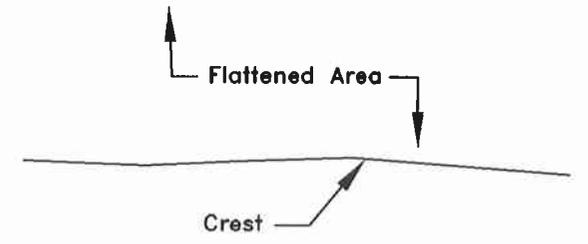
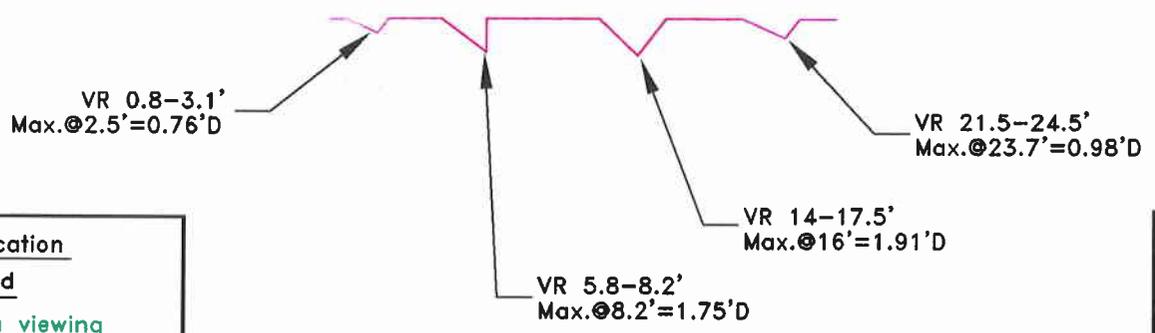


Photo #1L
321° direction
48" height
20" distance

Main Drainage

Photo #2X
48° direction
48" height
45' distance



PHOTOGRAPHIC LOCATIONS
for

EROSION MONITORING STATION
F-12 to F-12A

EROSION TRANSECT

LEGEND

- BLACK = Plan View
 - RED = X-Sectional View
 - FR = Flat Rill
 - VR = V-Shaped Rill
 - Scale: 1"=10'
-
- 12.5°
Slope

Date: 7-28-95 Drawn: DRM
Rev: 11-13-96 by EMG & LDB

Photo Location
Legend

→ Camera viewing direction

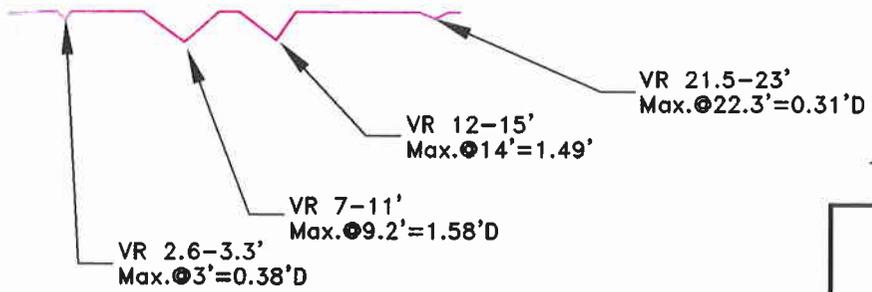
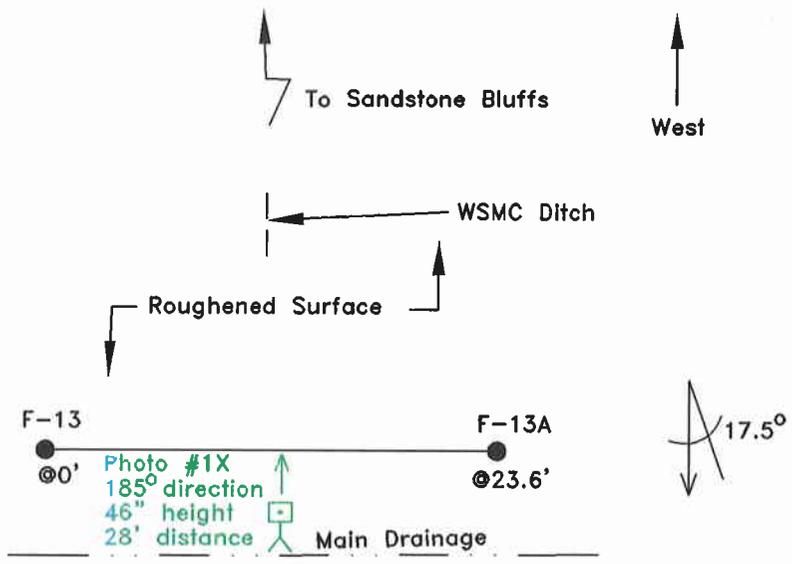
#3L = Photo point viewed perpendicular to slope

#1X = Photo point viewed parallel to slope

height = Distance above ground surface

direction = An azimuth reading

RECEIVED
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PHOTOGRAPHIC LOCATIONS

for
EROSION MONITORING STATION
 F-13 to F-13A

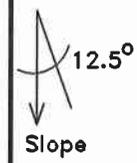
EROSION TRANSECT

LEGEND

BLACK = Plan View
 RED = X-Sectional View

FR = Flat Rill
 VR = V-Shaped Rill

Scale: 1"=10'

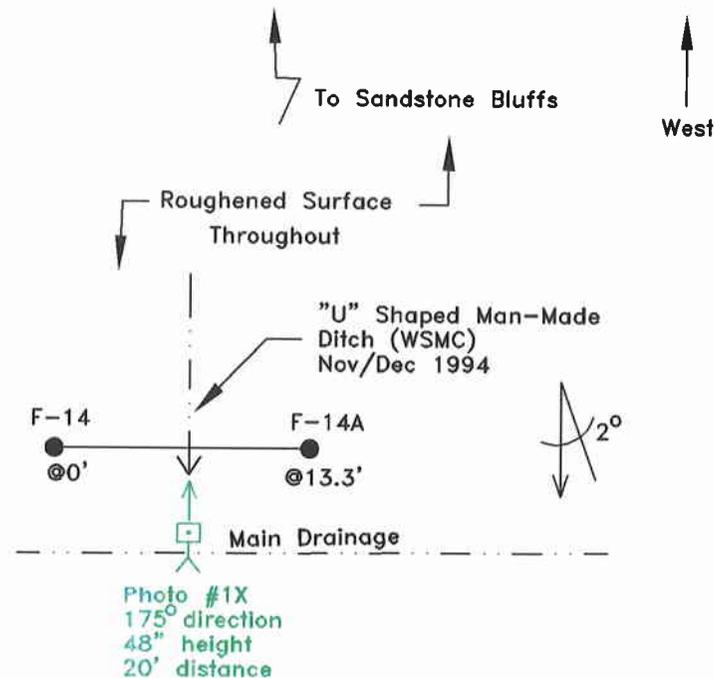


Date: 7-28-95 Drawn: DRM
 Rev: 11-13-96 by EMG & LDB

Photo Location Legend

→ Camera viewing direction
 #3L = Photo point viewed perpendicular to slope
 #1X = Photo point viewed parallel to slope
 height = Distance above ground surface
 direction = An azimuth reading

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"U" Shaped Ditch 2-12'
Max. $\odot 7' = 1.33'D$

Note: substantial sedimentation

constant (flat) sedimentation
across channel bottom
from 4.6-8.4'

Photo Location Legend

→ Camera viewing direction

#3L = Photo point viewed perpendicular to slope

#1X = Photo point viewed parallel to slope

height = Distance above ground surface

direction = An azimuth reading

RECEIVED
DEC 19 1997
DIV. OF OIL, GAS & MINING

PHOTOGRAPHIC LOCATIONS

for
EROSION MONITORING STATION
F-14 to F-14A

EROSION TRANSECT

LEGEND

BLACK = Plan View
RED = X-Sectional View

FR = Flat Rill
VR = V-Shaped Rill

Scale: 1"=10'

Date: 7-28-95 Drawn: DRM
Rev: 11-13-96 by EMG & LDB

12.5°
Slope

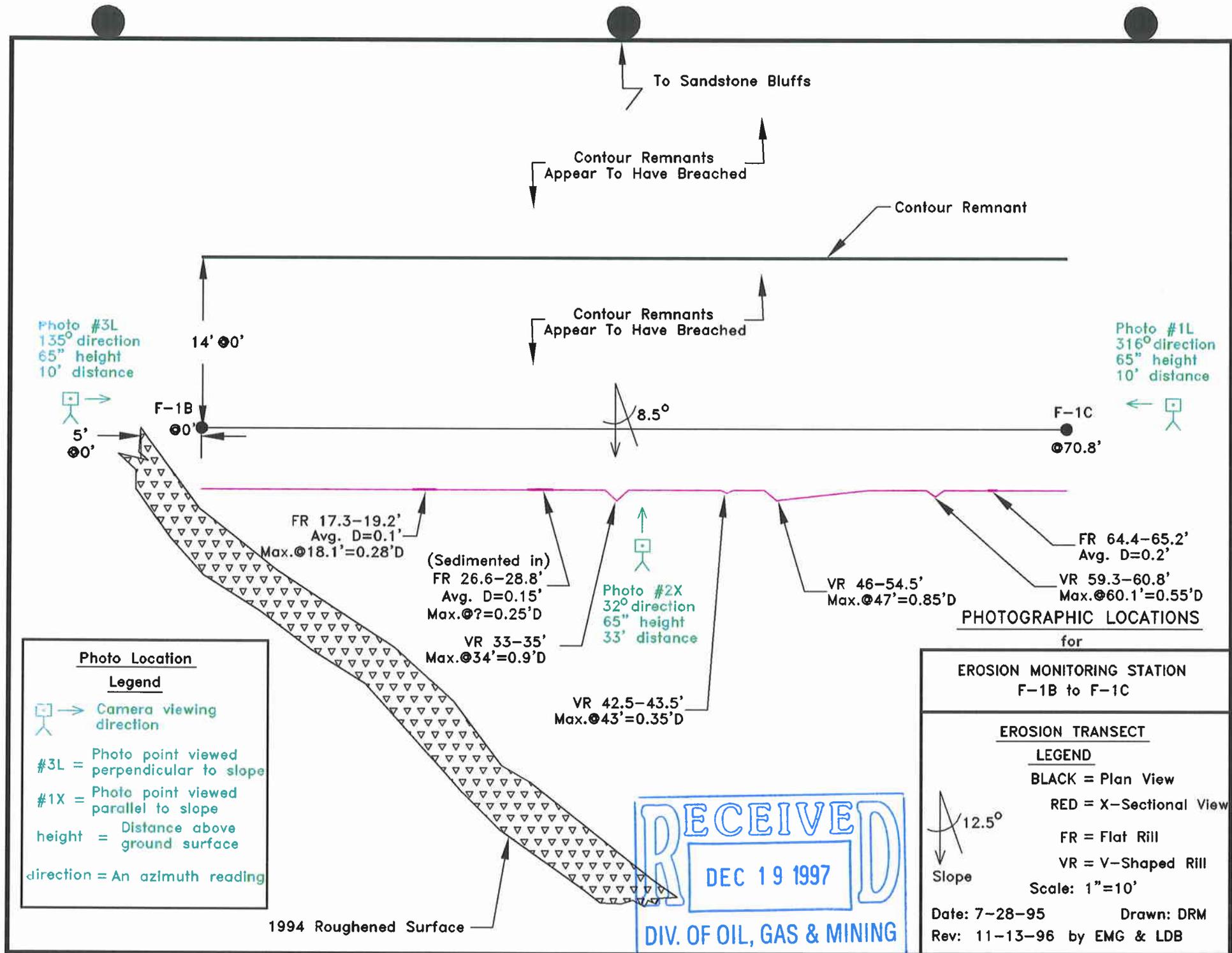


Photo Location Legend

Camera viewing direction
 #3L = Photo point viewed perpendicular to slope
 #1X = Photo point viewed parallel to slope
 height = Distance above ground surface
 direction = An azimuth reading

EROSION TRANSECT LEGEND

BLACK = Plan View
 RED = X-Sectional View
 FR = Flat Rill
 VR = V-Shaped Rill
 Scale: 1"=10'
 Date: 7-28-95 Drawn: DRM
 Rev: 11-13-96 by EMG & LDB

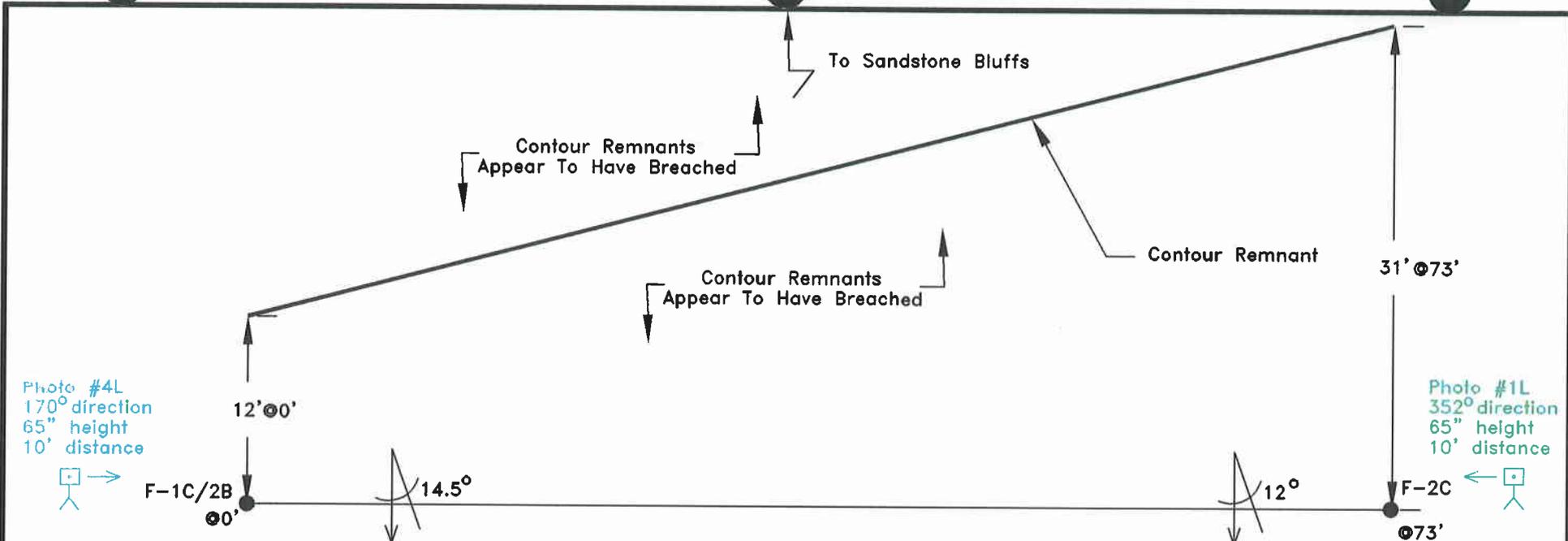
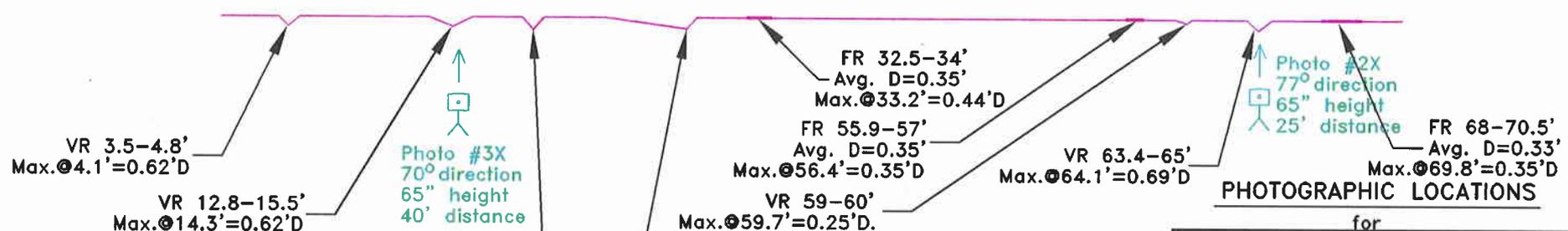


Photo #4L
170° direction
65" height
10' distance

Photo #1L
352° direction
65" height
10' distance



PHOTOGRAPHIC LOCATIONS

for

**EROSION MONITORING STATION
F-2B to F-2C**

**EROSION TRANSECT
LEGEND**

BLACK = Plan View
RED = X-Sectional View
FR = Flat Rill
VR = V-Shaped Rill

Scale: 1"=10'

Date: 7-28-95 Drawn: DRM
Rev: 11-13-96 by EMG & LDB

**Photo Location
Legend**

☐ → Camera viewing direction

#3L = Photo point viewed perpendicular to slope

#1X = Photo point viewed parallel to slope

height = Distance above ground surface

direction = An azimuth reading

RECEIVED
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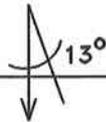
To Sandstone Bluffs

Unrecorded Contour Remnant

Photo #1L
185° direction
65" height
7' distance



F-3B
●0'



F-3C
●48.6'

Photo #3L
5° direction
65" height
10' distance



Contour Remnant

Note: No Washouts Below Contour Remnant Between Reference Points

6'
●0'

6'
●48.6'

Photo #2X
78° direction
65" height
26' distance



VR 1.5-3.2'
Max. ●2.1' = 0.58'D

VR 4.5-7.1'
Max. ●6.3' = 0.74'D

VR 8.6-10.6'
Max. ●9.9' = 0.70'D

VR 12.1-12.8'
Max. ●12.5' = 0.43'D

VR 13.7-16.5'
Max. ●14.8' = 0.85'D

VR 19.4-22.1'
Max. ●20.4' = 0.38'D

VR 24.5-26.9'
Max. ●25.1' = 0.53'D

VR 33-34.5'
Max. ●33.3' = 0.36'D

VR 35.8-36.8'
Max. ●36.2' = 0.35'D

FR 43.9-45.5'
Max. ●45.3' = 0.20'D

PHOTOGRAPHIC LOCATIONS

for

EROSION MONITORING STATION
F-3B to F-3C

EROSION TRANSECT

LEGEND

- BLACK = Plan View
- RED = X-Sectional View
- FR = Flat Rill
- VR = V-Shaped Rill
- Scale: 1" = 10'

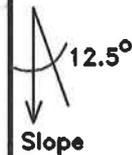


Photo Location

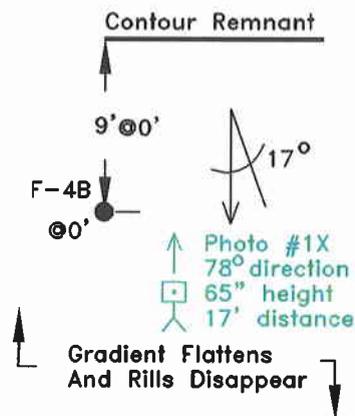
Legend

- Camera viewing direction
- #3L = Photo point viewed perpendicular to slope
- #1X = Photo point viewed parallel to slope
- height = Distance above ground surface
- direction = An azimuth reading

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Date: 7-28-95 Drawn: DRM
Rev: 11-13-96 by EMG & LDB

↑ To Sandstone Bluffs



FR 1.1-2.1'
Avg. D=0.4'
Max. D=0.4'

Photo Location Legend

☐ → Camera viewing direction

↖ Photo point viewed perpendicular to slope

#3L = Photo point viewed perpendicular to slope

↗ Photo point viewed parallel to slope

#1X = Photo point viewed parallel to slope

height = Distance above ground surface

direction = An azimuth reading

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PHOTOGRAPHIC LOCATIONS

for

EROSION MONITORING STATION
F-4B

EROSION TRANSECT

LEGEND

BLACK = Plan View
RED = X-Sectional View

FR = Flat Rill

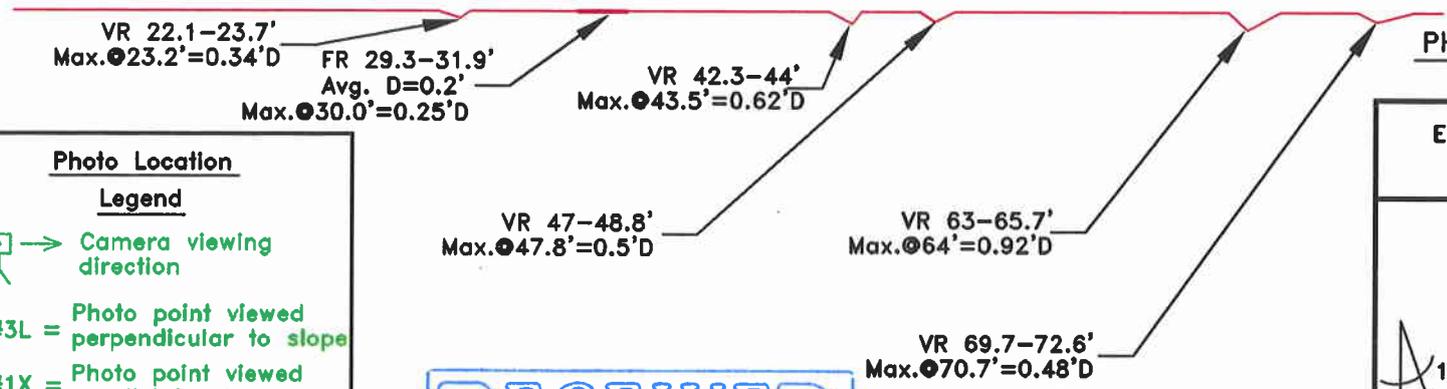
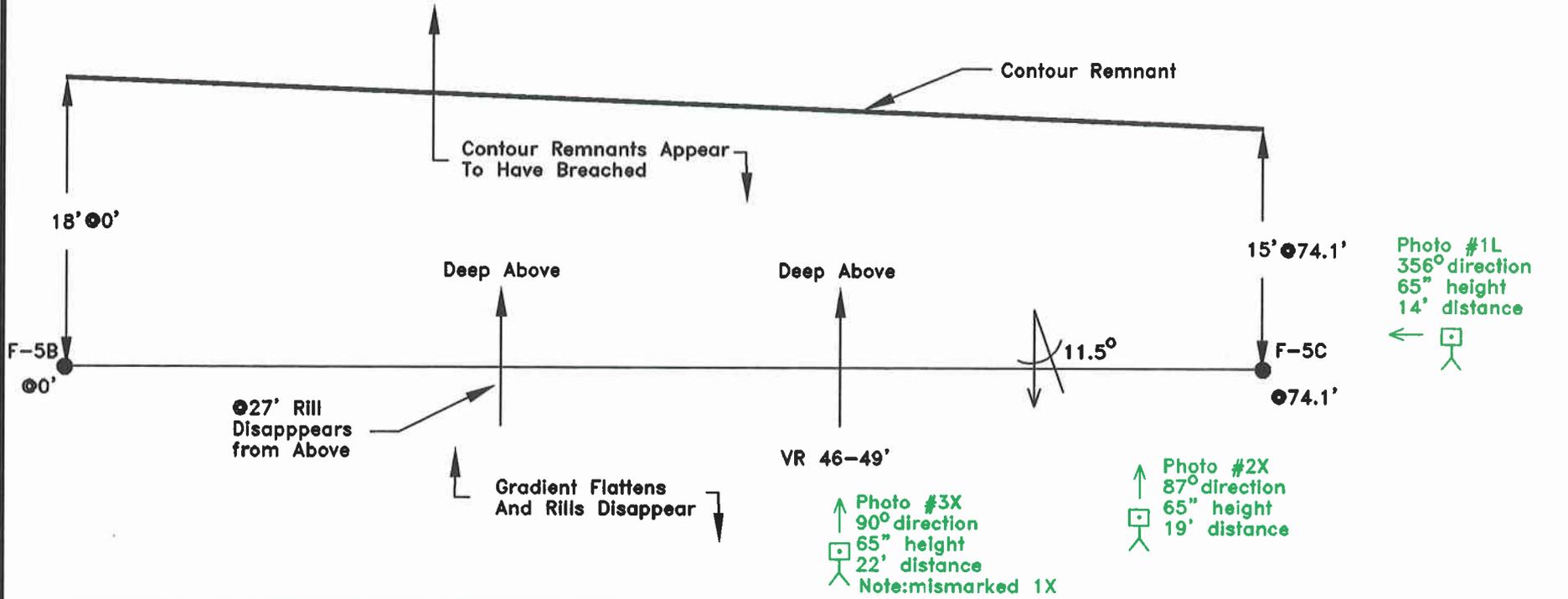
VR = V-Shaped Rill

Scale: 1"=10'



Date: 7-28-95 Drawn: DRM
Rev: 11-13-96 by EMG & LDB

To Sandstone Bluffs



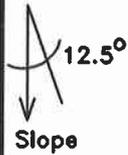
PHOTOGRAPHIC LOCATIONS
for

EROSION MONITORING STATION
F-5B to F-5C

EROSION TRANSECT

LEGEND

- BLACK = Plan View
- RED = X-Sectional View
- FR = Flat Rill
- VR = V-Shaped Rill
- Scale: 1" = 10'



Date: 7-28-95 Drawn: DRM
Rev: 11-13-96 by EMG & LDB

Photo Location Legend

- Camera viewing direction
- #3L = Photo point viewed perpendicular to slope
- #1X = Photo point viewed parallel to slope
- height = Distance above ground surface
- direction = An azimuth reading

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To Sandstone Bluffs

Photo Location Legend

☐ → Camera viewing direction

#3L = Photo point viewed perpendicular to slope

#1X = Photo point viewed parallel to slope

height = Distance above ground surface

direction = An azimuth reading

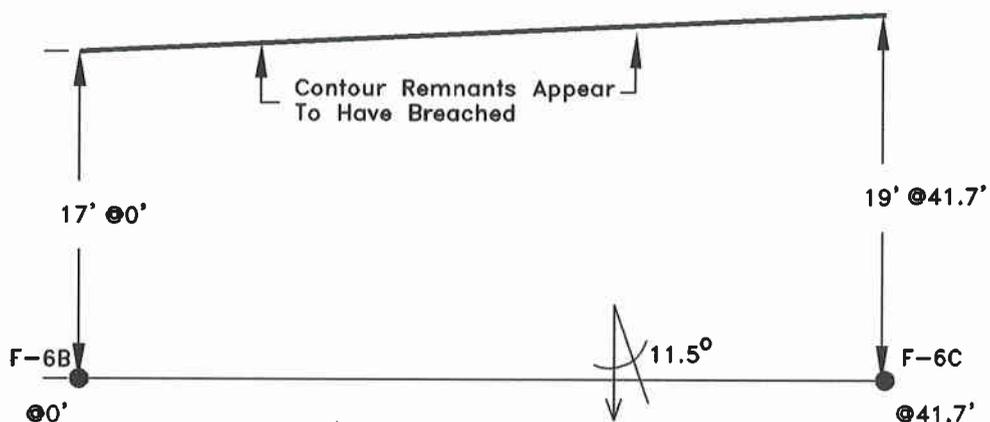


Photo #1L
14° direction
65" height
11' distance

Note: This area appears to be spreading out into a fan, as gradient is reducing. (no significant individual rills)

Gradient Flattens And Rills Disappear

Photos #2X-1 & #2X-2 panorama
80° & 115° direction
65" height
31' distance

FR w/VR'S 0.5-17'
Avg. D=0.2'
Max. @10'=0.45'

FR 22.9-28.2'
Avg. D=0.25'
Max. @24'=0.50'D

VR 31.8-34.8'
Max. @33.5'=0.66'D

FR 38-40'
Avg. D=0.08'
Max. D=0.2'

PHOTOGRAPHIC LOCATIONS

for

EROSION MONITORING STATION
F-6B to F-6C

EROSION TRANSECT

LEGEND

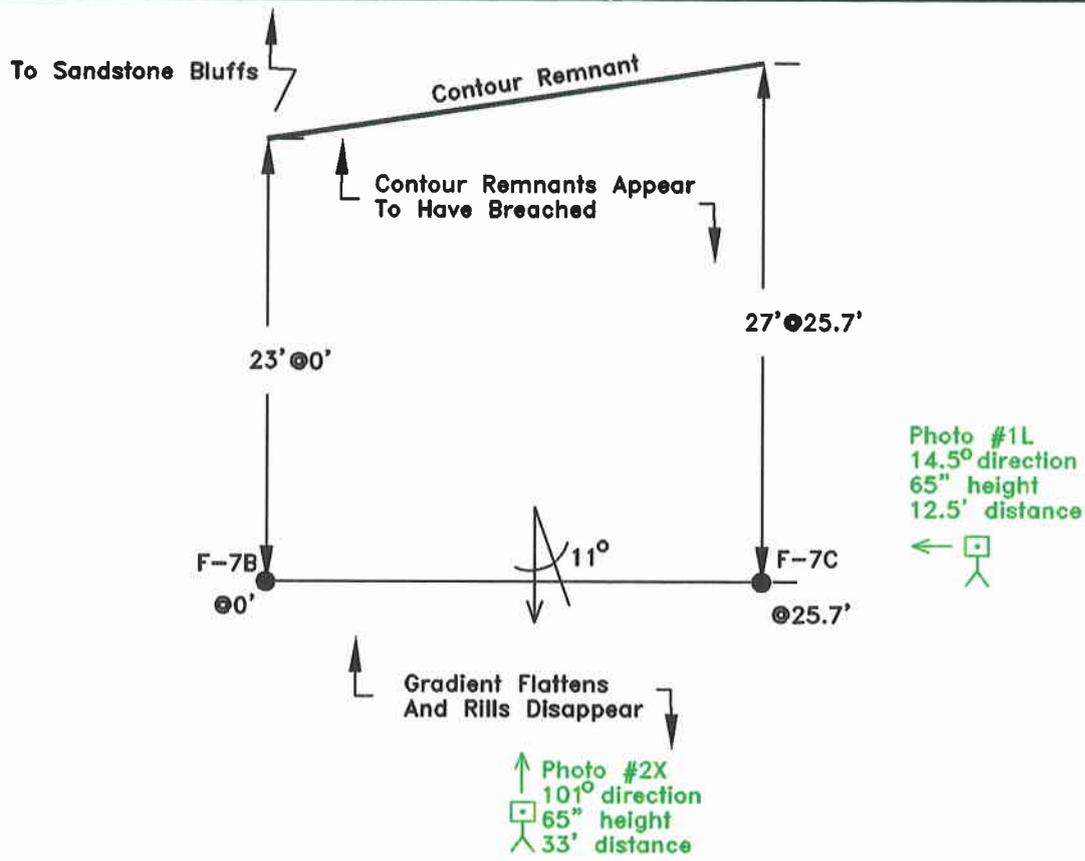
BLACK = Plan View
RED = X-Sectional View

FR = Flat Rill
VR = V-Shaped Rill

Scale: 1"=10'

Date: 7-28-95 Drawn: DRM
Rev: 11-13-96 by EMG & LDB

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VR 9-11'
Max. \odot 10.4' = 0.55'D

VR 16.5-18.5'
Max. \odot 17.6' = 0.71'D

FR 20.3-21.6'
Avg. D = 0.33'
Max. D = 0.36'
Healed

Photo Location Legend

→ Camera viewing direction

#3L = Photo point viewed perpendicular to slope

#1X = Photo point viewed parallel to slope

height = Distance above ground surface

direction = An azimuth reading

PHOTOGRAPHIC LOCATIONS
for

EROSION MONITORING STATION
F-7B to F-7C

EROSION TRANSECT

LEGEND

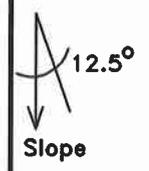
BLACK = Plan View

RED = X-Sectional View

FR = Flat Rill

VR = V-Shaped Rill

Scale: 1" = 10'



Date: 7-28-95 Drawn: DRM
Rev: 11-13-96 by EMG & LDB

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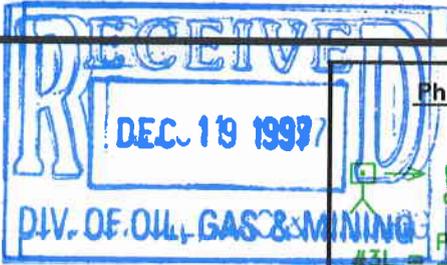


Photo Location Legend

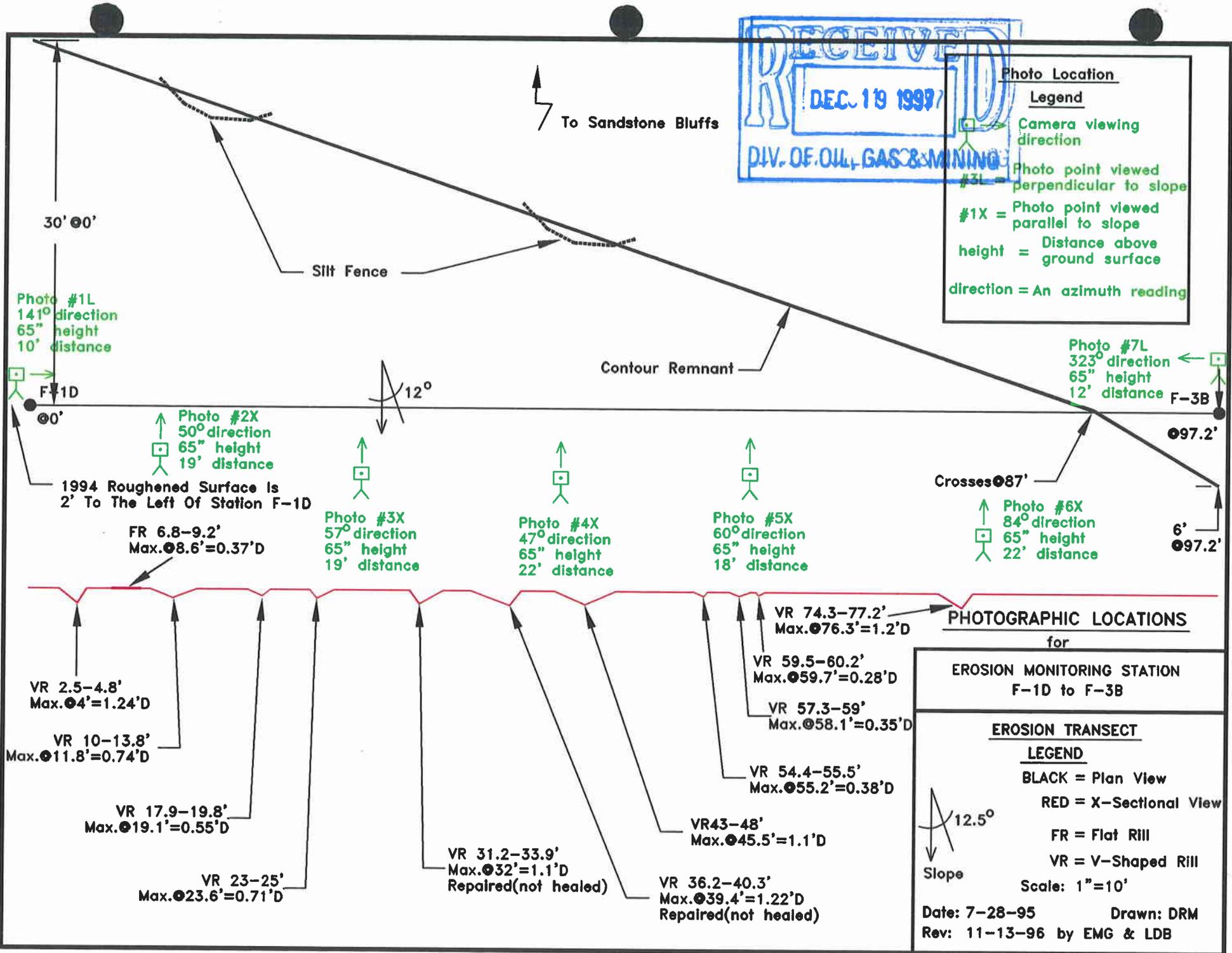
Camera viewing direction

#3L = Photo point viewed perpendicular to slope

#1X = Photo point viewed parallel to slope

height = Distance above ground surface

direction = An azimuth reading



JB KING PROJECT

AS-BUILT CONSTRUCTION DETAIL
NOV-DEC 1994

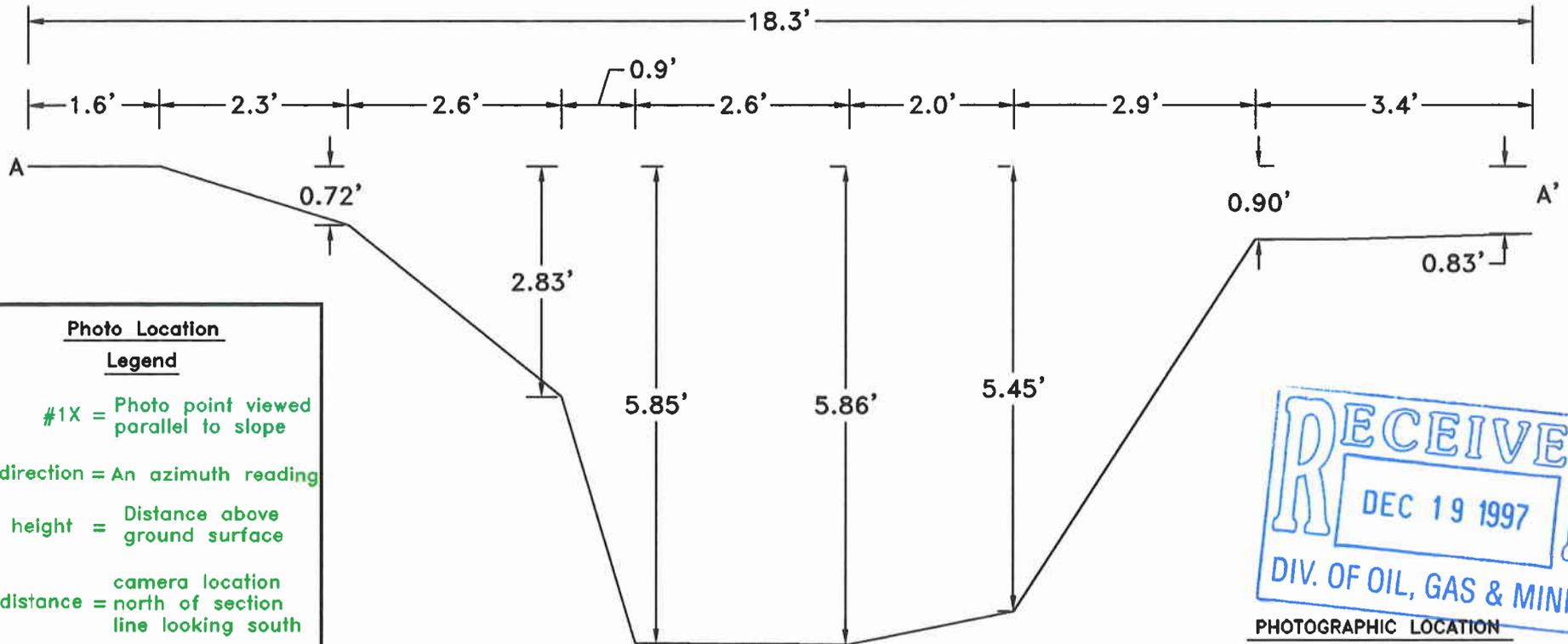


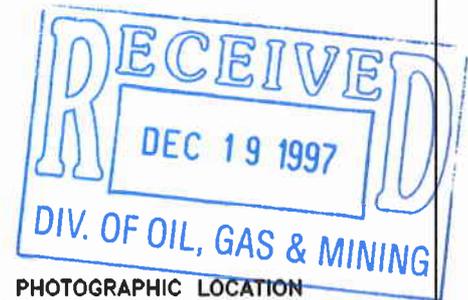
Photo Location Legend

#1X = Photo point viewed parallel to slope

direction = An azimuth reading

height = Distance above ground surface

camera location distance = north of section line looking south



PHOTOGRAPHIC LOCATION
for
NEW DRAINAGE CHANNEL

TYPICAL X-SECTION A-A' OF NEW DRAINAGE CHANNEL
Designated as Feeder Ditch (also Ditch #1)
Refer to plan map (JBK-3 AS BUILT) for location of x-section
Scale: 1"=2'

Photo #1X
170° direction
65" height
17' distance



TITLE: 1994 Reclamation Plan Revision showing typical x-section A-A' of new drainage channel

PROJECT: J.B.KING RECLAMATION

STATE: UTAH COUNTY: EMERY	REV 1: 7/12/95
SCALE: 1"=2'	REV 2: 11/13/96
DATE: 4-5-95	DATA: EMG/LDB DRWN BY: DRM

JB KING PROJECT
AS-BUILT CONSTRUCTION DETAIL
NOV-DEC 1994

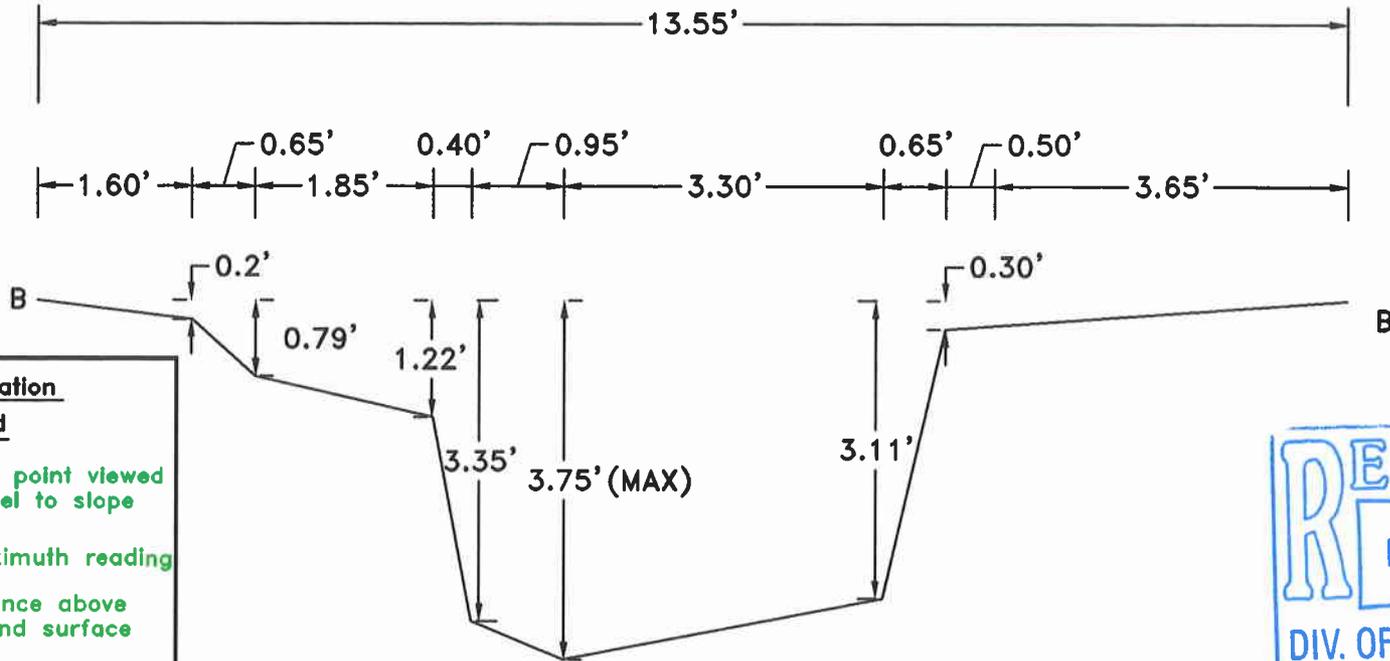


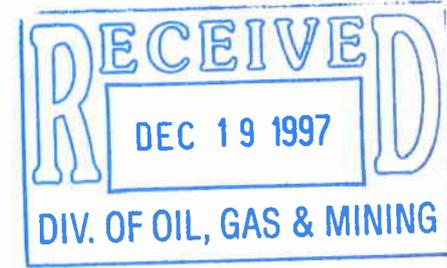
Photo Location Legend

#1X = Photo point viewed parallel to slope

direction = An azimuth reading

height = Distance above ground surface

camera location distance = north of section line looking south



TYPICAL X-SECTION B-B' OF NEW DRAINAGE CHANNEL
Designated as Feeder Ditch (also Ditch#1)
Refer to plan map (JBK-3 AS BUILT) for location of x-section

Scale: 1"=2'

Photo #1X
162° direction
65" height
17' distance

PHOTOGRAPHIC LOCATION
for
NEW DRAINAGE CHANNEL



TITLE: 1994 Reclamation Plan Revision showing typical x-section B-B' of new drainage channel

PROJECT: J.B.KING RECLAMATION

STATE: UTAH COUNTY: EMERY	REV 1: 7/12/95
SCALE: 1"=2'	REV 2: 11/13/96
DATE: 4-5-95	DATA: EMG/LDB DRWN BY:DRM

JB KING PROJECT
AS-BUILT CONSTRUCTION DETAIL
NOV-DEC 1994

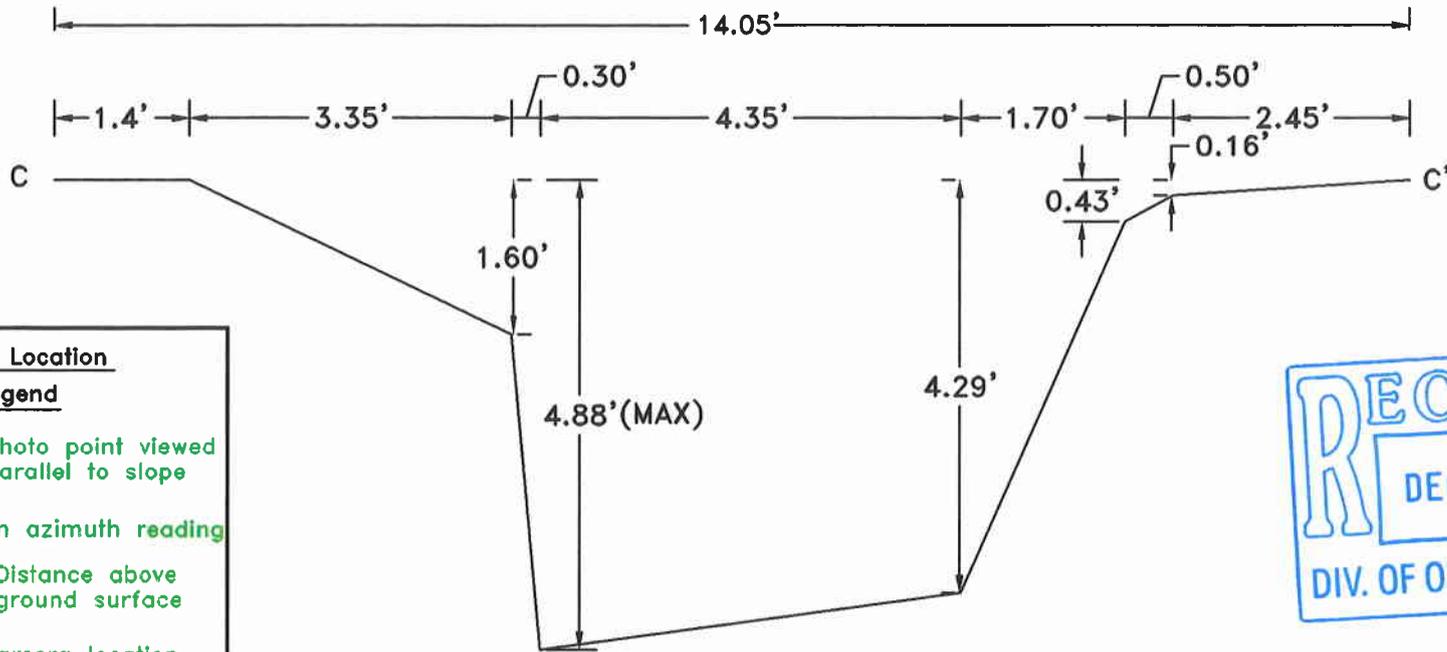


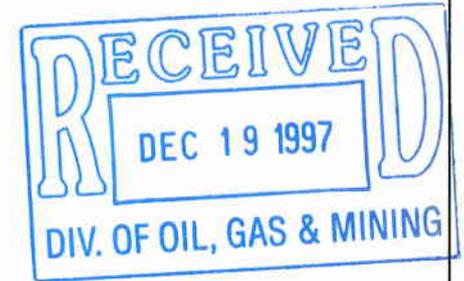
Photo Location
Legend

#1X = Photo point viewed parallel to slope

direction = An azimuth reading

height = Distance above ground surface

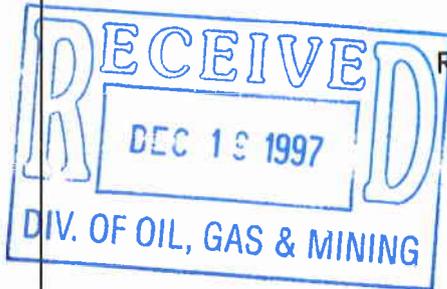
camera location distance = north of section line looking south



TYPICAL X-SECTION C-C' OF NEW DRAINAGE CHANNEL
 Designated as Main Feeder Ditch (also Ditch #2)

Refer to plan map (JBK-3 AS BUILT) for location of x-section

PHOTOGRAPHIC LOCATION
 for
 NEW DRAINAGE CHANNEL



Scale: 1"=2'

Photo #1X
 114° direction
 65" height
 15' distance

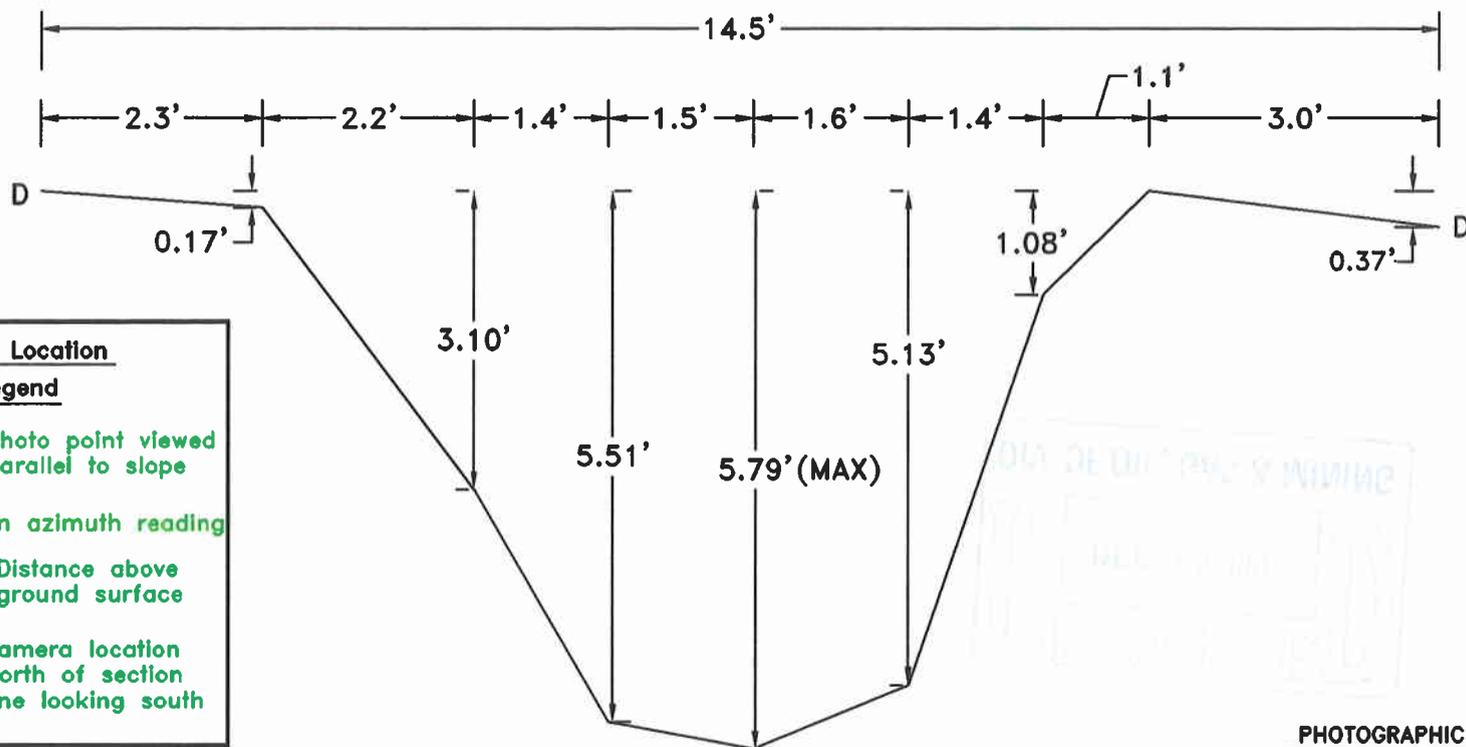


TITLE: 1994 Reclamation Plan Revision showing typical x-section C-C' of new drainage channel

PROJECT: J.B.KING RECLAMATION

STATE: UTAH	REV 1: 7/12/95
COUNTY: EMERY	REV 2: 11/13/96
SCALE: 1"=2'	DATE: 4-5-95
DATE: 4-5-95	DATA: EMG/LDB DRWN BY: DRM

JB KING PROJECT
AS-BUILT CONSTRUCTION DETAIL
NOV-DEC 1994



TYPICAL X-SECTION D-D' OF NEW DRAINAGE CHANNEL
Designated as Main Feeder Ditch (also Ditch #2)
Refer to plan map (JBK-3 AS BUILT) for location of x-section

Scale: 1"=2'

Photo #1X
112° direction
65" height
20' distance

PHOTOGRAPHIC LOCATION
for
NEW DRAINAGE CHANNEL



TITLE: 1994 Reclamation Plan Revision showing typical x-section D-D' of new drainage channel

PROJECT: J.B.KING RECLAMATION

STATE: UTAH	REV 1: 7/12/95
COUNTY: EMERY	REV 2: 11/13/96
SCALE: 1"=2'	
DATE: 4-5-95	DATA: EMG/LDB DRWN BY: DRM

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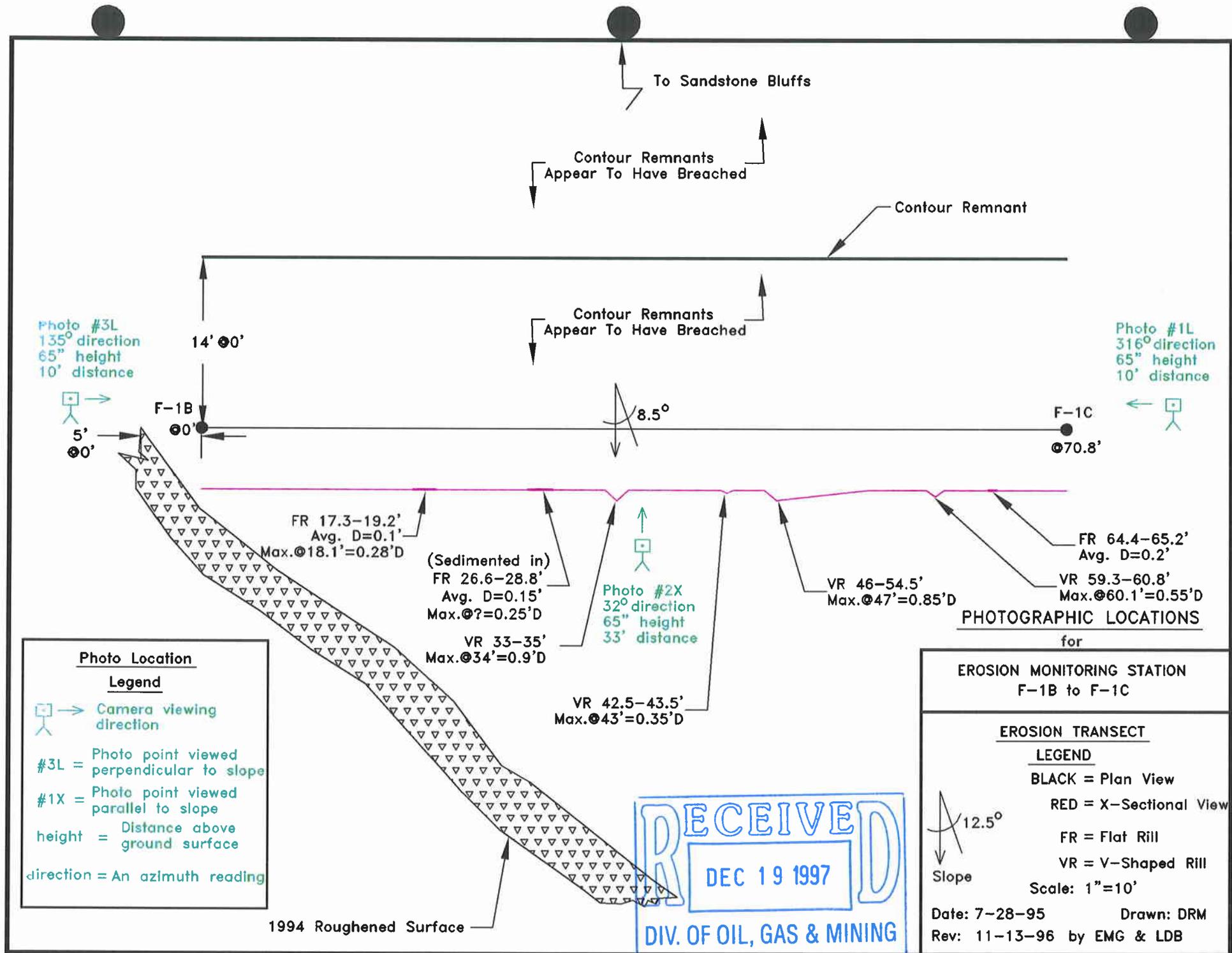


Photo Location Legend

Camera viewing direction
 #3L = Photo point viewed perpendicular to slope
 #1X = Photo point viewed parallel to slope
 height = Distance above ground surface
 direction = An azimuth reading

EROSION TRANSECT LEGEND

BLACK = Plan View
 RED = X-Sectional View
 FR = Flat Rill
 VR = V-Shaped Rill
 Scale: 1"=10'
 Date: 7-28-95 Drawn: DRM
 Rev: 11-13-96 by EMG & LDB

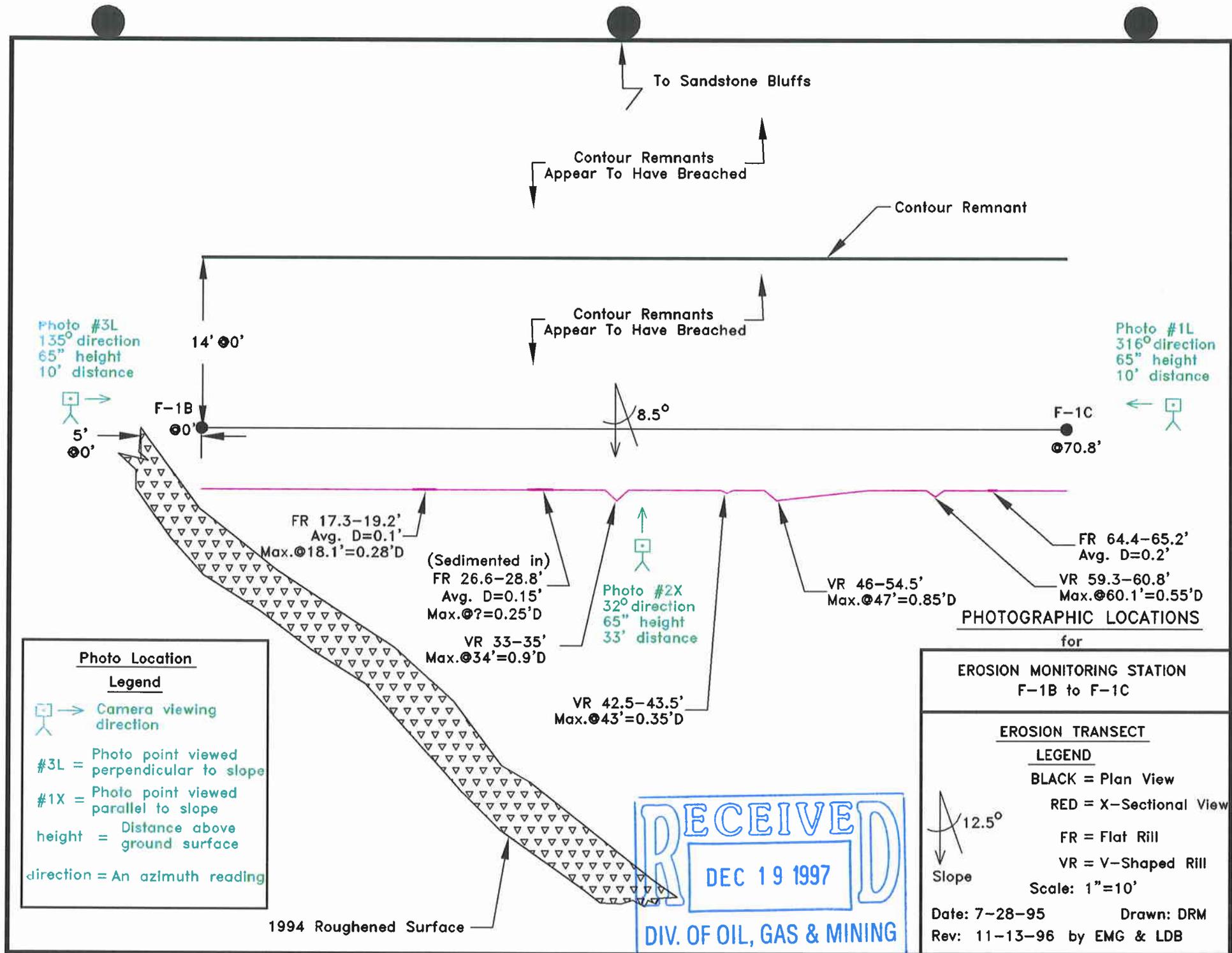
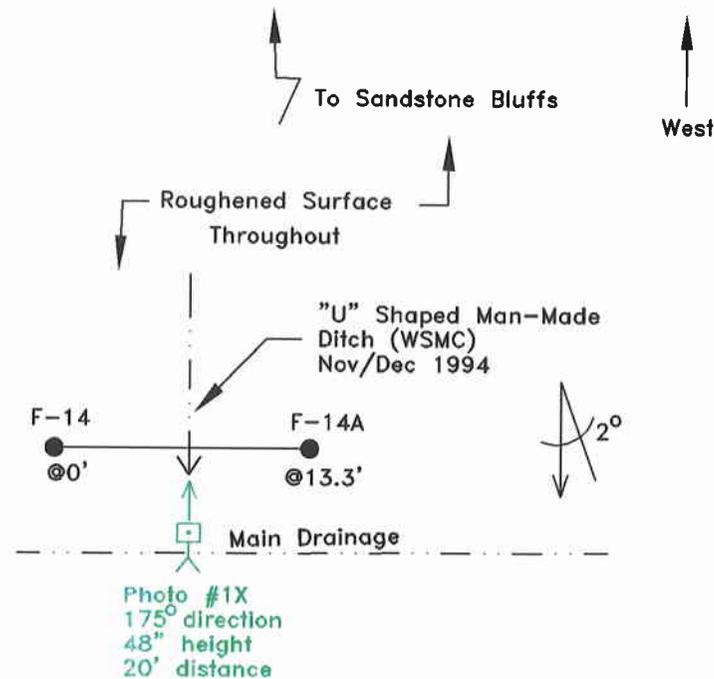


Photo Location Legend

Camera viewing direction
 #3L = Photo point viewed perpendicular to slope
 #1X = Photo point viewed parallel to slope
 height = Distance above ground surface
 direction = An azimuth reading

EROSION TRANSECT LEGEND

BLACK = Plan View
 RED = X-Sectional View
 FR = Flat Rill
 VR = V-Shaped Rill
 Scale: 1"=10'
 Date: 7-28-95 Drawn: DRM
 Rev: 11-13-96 by EMG & LDB



"U" Shaped Ditch 2-12'
Max. $\odot 7' = 1.33'D$

Note: substantial sedimentation

constant (flat) sedimentation
across channel bottom
from 4.6-8.4'

Photo Location Legend

→ Camera viewing direction

#3L = Photo point viewed perpendicular to slope

#1X = Photo point viewed parallel to slope

height = Distance above ground surface

direction = An azimuth reading

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PHOTOGRAPHIC LOCATIONS

for

EROSION MONITORING STATION
F-14 to F-14A

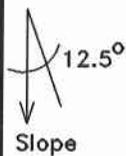
EROSION TRANSECT

LEGEND

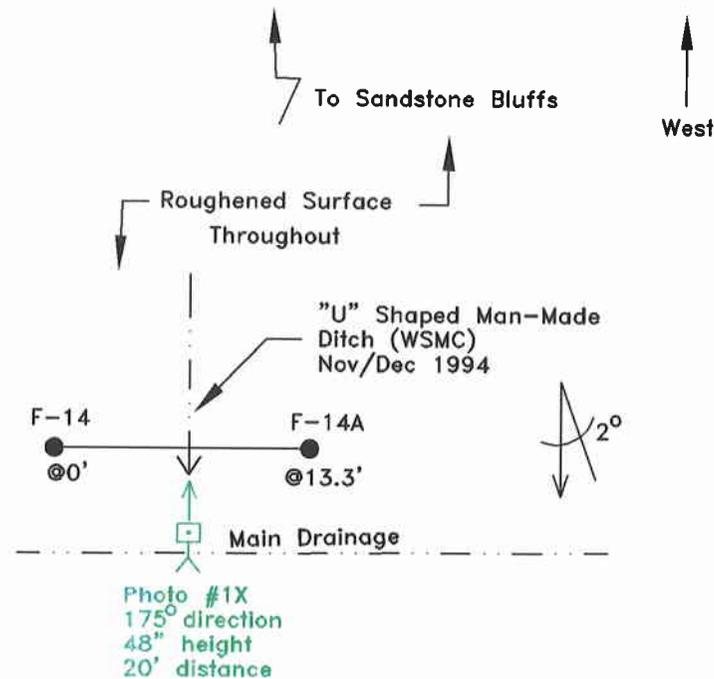
BLACK = Plan View
RED = X-Sectional View

FR = Flat Rill
VR = V-Shaped Rill

Scale: 1"=10'



Date: 7-28-95 Drawn: DRM
Rev: 11-13-96 by EMG & LDB



"U" Shaped Ditch 2-12'
Max. $\odot 7' = 1.33'D$

Note: substantial sedimentation

constant (flat) sedimentation
across channel bottom
from 4.6-8.4'

Photo Location Legend

→ Camera viewing direction

#3L = Photo point viewed perpendicular to slope

#1X = Photo point viewed parallel to slope

height = Distance above ground surface

direction = An azimuth reading

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PHOTOGRAPHIC LOCATIONS

for
EROSION MONITORING STATION
F-14 to F-14A

EROSION TRANSECT

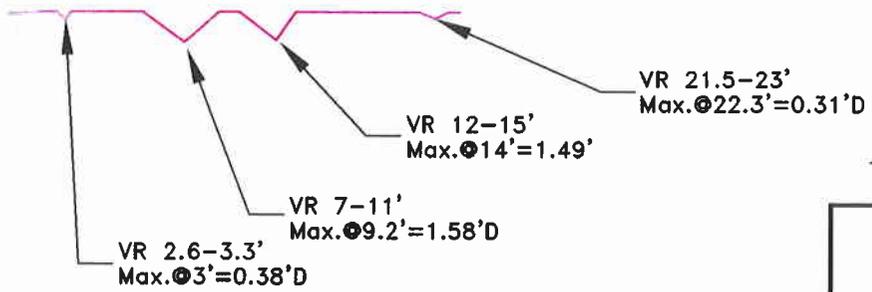
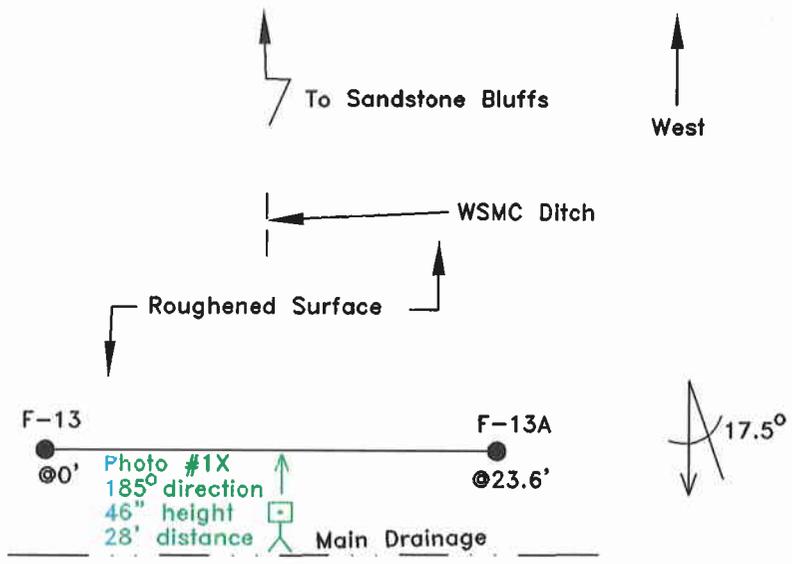
LEGEND

BLACK = Plan View
RED = X-Sectional View

FR = Flat Rill
VR = V-Shaped Rill

Scale: 1"=10'

Date: 7-28-95 Drawn: DRM
Rev: 11-13-96 by EMG & LDB



PHOTOGRAPHIC LOCATIONS
for

EROSION MONITORING STATION
F-13 to F-13A

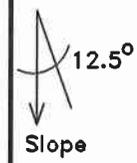
EROSION TRANSECT

LEGEND

BLACK = Plan View
RED = X-Sectional View

FR = Flat Rill
VR = V-Shaped Rill

Scale: 1"=10'



Date: 7-28-95 Drawn: DRM
Rev: 11-13-96 by EMG & LDB

Photo Location
Legend

 → Camera viewing direction
 #3L = Photo point viewed perpendicular to slope
 #1X = Photo point viewed parallel to slope
 height = Distance above ground surface
 direction = An azimuth reading

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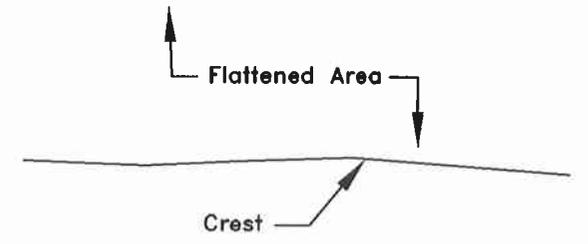
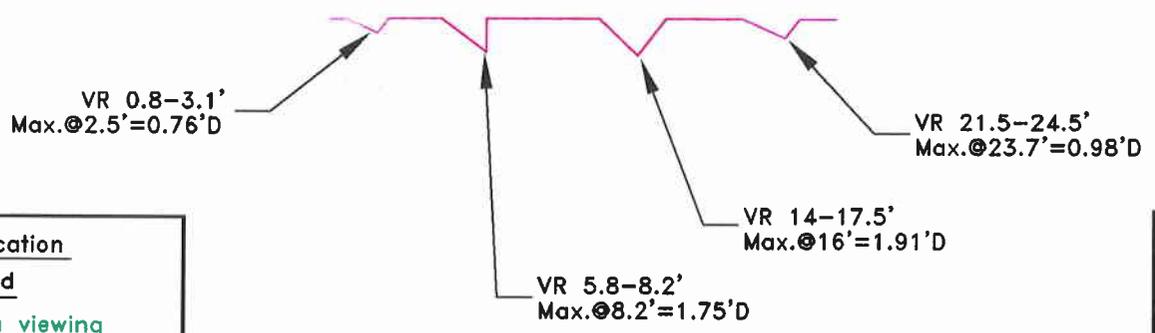


Photo #1L
321° direction
48" height
20" distance

Main Drainage

Photo #2X
48° direction
48" height
45' distance



PHOTOGRAPHIC LOCATIONS
for

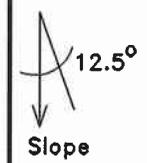
EROSION MONITORING STATION
F-12 to F-12A

EROSION TRANSECT

LEGEND

BLACK = Plan View
RED = X-Sectional View

FR = Flat Rill
VR = V-Shaped Rill



Scale: 1"=10'

Date: 7-28-95 Drawn: DRM
Rev: 11-13-96 by EMG & LDB

Photo Location
Legend

☐ → Camera viewing direction

#3L = Photo point viewed perpendicular to slope

#1X = Photo point viewed parallel to slope

height = Distance above ground surface

direction = An azimuth reading

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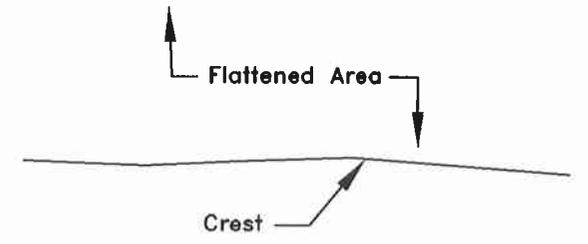
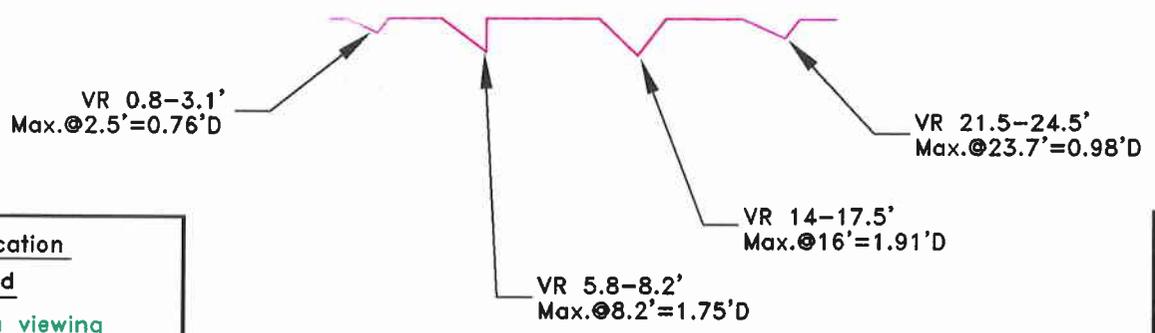


Photo #1L
321° direction
48" height
20" distance

Main Drainage

Photo #2X
48° direction
48" height
45' distance



PHOTOGRAPHIC LOCATIONS
for

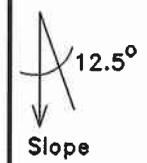
EROSION MONITORING STATION
F-12 to F-12A

EROSION TRANSECT

LEGEND

BLACK = Plan View
RED = X-Sectional View

FR = Flat Rill
VR = V-Shaped Rill



Scale: 1"=10'

Date: 7-28-95 Drawn: DRM
Rev: 11-13-96 by EMG & LDB

Photo Location
Legend

☐ → Camera viewing direction

#3L = Photo point viewed perpendicular to slope

#1X = Photo point viewed parallel to slope

height = Distance above ground surface

direction = An azimuth reading

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Repaired And Headed

VR 14-19'
 Max. 18" = 0.4'D

FR 11.6-13.2'
 Max. 12.5" = 0.31'D

VR 7.7-9.1'
 Max. 8.4" = 0.6'D

VR 1.7-6.2'
 Max. 3.7" = 1.28'D

VR 25.6-28.3'
 Max. 27" = 1.18'D

VR 30.5-35.8'
 Max. 33.7" = 1.35'D

VR 40.1-43.4'
 Max. 42" = 1.7'D

8.0'
 44.5'
 Silt Fence

Contour Remnant

13.0' 00'

F-9
 00'

12.5°

Photo #2X
 90° direction
 65" height
 15' distance

Photo #3X
 95° direction
 65" height
 17' distance

F-9A
 44.5'

Photo #4L
 24° direction
 65" height
 7' distance

Photo #1L
 205° direction
 65" height
 10' distance

Rills Begin At Crest
 Of Flat Area And Slope

Flattened Area
 To Sandstone Bluffs

Photo Location Legend
 Camera viewing direction
 Photo point viewed perpendicular to slope
 #1X = Photo point viewed parallel to slope
 Distance above ground surface
 direction = An azimuth reading

PHOTOGRAPHIC LOCATIONS
 for
EROSION MONITORING STATION
 F-9 to F-9A

EROSION TRANSECT LEGEND
 BLACK = Plan View
 RED = X-Sectional View
 FR = Flat Rill
 VR = V-Shaped Rill
 Slope 12.5°
 Scale: 1" = 10'

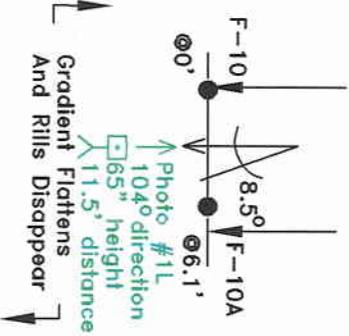
Date: 7-28-95
 Rev: 11-13-96 by EMG & LDB
 Drawn: DRM

To Sandstone Bluffs

Contour Remnants Appear To Have Breached

Remnant Contour

18.0'±0.0' 17.0'±6.1'



VR 1.5-4.2'
Max. ±3.15' = 1.22'D

PHOTOGRAPHIC LOCATIONS
for
EROSION MONITORING STATION
F-10 to F-10A

EROSION TRANSECT

LEGEND

- BLACK = Plan View
- RED = X-Sectional View
- FR = Flat Rill
- VR = V-Shaped Rill
- Scale: 1" = 10'



Slope

Scale: 1" = 10'

Date: 7-28-95
Rev: 11-13-96 by EMG & LDB
Drawn: DRM

Photo Location

Legend

- Camera viewing direction
- Photo point viewed perpendicular to slope
- #3L = perpendicular to slope
- #1X = Photo point viewed parallel to slope
- height = Distance above ground surface
- direction = An azimuth reading

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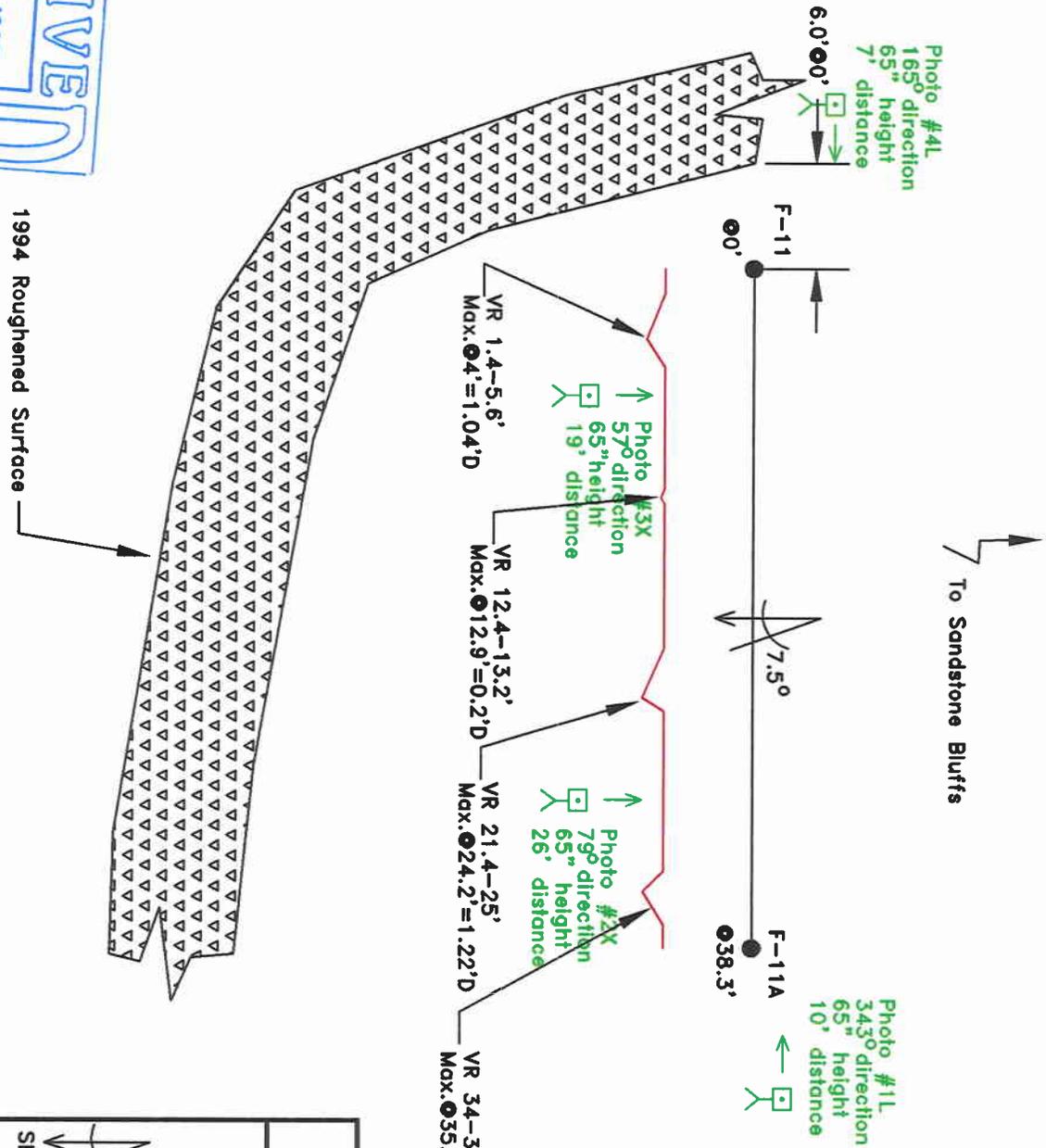


Photo Location

Legend

→ Camera viewing direction

#3L = Photo point viewed perpendicular to slope

#1X = Photo point viewed parallel to slope

height = Distance above ground surface

direction = An azimuth reading

PHOTOGRAPHIC LOCATIONS

for

EROSION MONITORING STATION
 F-11 to F-11A

EROSION TRANSECT

LEGEND

BLACK = Plan View

RED = X-Sectional View

FR = Flat Rill

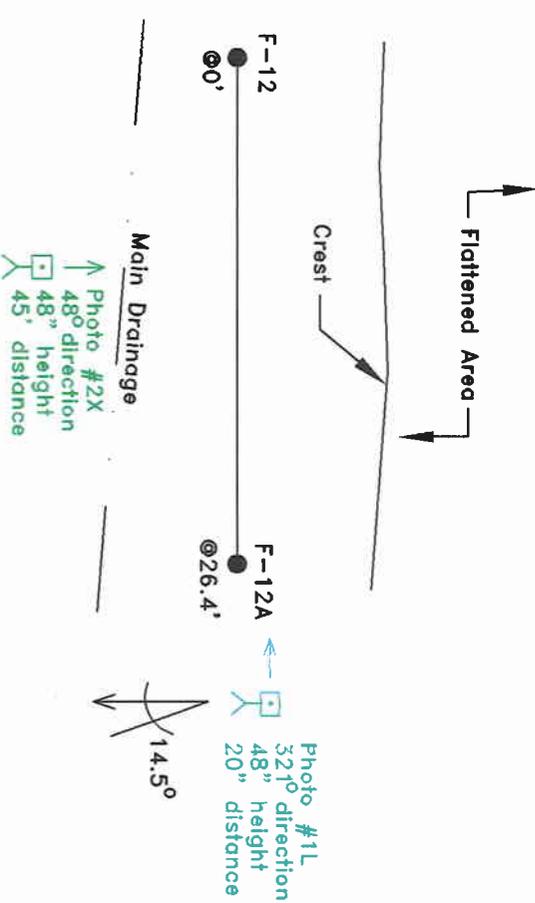
VR = V-Shaped Rill

Slope 12.5°

Scale: 1" = 10'

Date: 7-28-95
 Rev: 11-13-96 by EMG & LDB
 Drawn: DRM

To Sandstone Bluffs
East



VR 0.8-3.1'
Max. @ 2.5' = 0.76'D

VR 5.8-8.2'
Max. @ 8.2' = 1.75'D

VR 14-17.5'
Max. @ 16' = 1.91'D

VR 21.5-24.5'
Max. @ 23.7' = 0.98'D

Photo Location
Legend
 Camera viewing direction
 #3L = Photo point viewed perpendicular to slope
 #1X = Photo point viewed parallel to slope
 height = Distance above ground surface
 direction = An azimuth reading

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 DEC 19 1997
 DIV. OF OIL, GAS & MINING

PHOTOGRAPHIC LOCATIONS

for

EROSION MONITORING STATION
 F-12 to F-12A

EROSION TRANSECT

LEGEND

BLACK = Plan View
 RED = X-Sectional View

FR = Flat Rill
 VR = V-Shaped Rill

Scale: 1" = 10'

Date: 7-28-95
 Drawn: DRM
 Rev: 11-13-96 by EMG & LDB

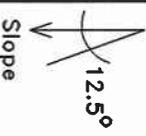
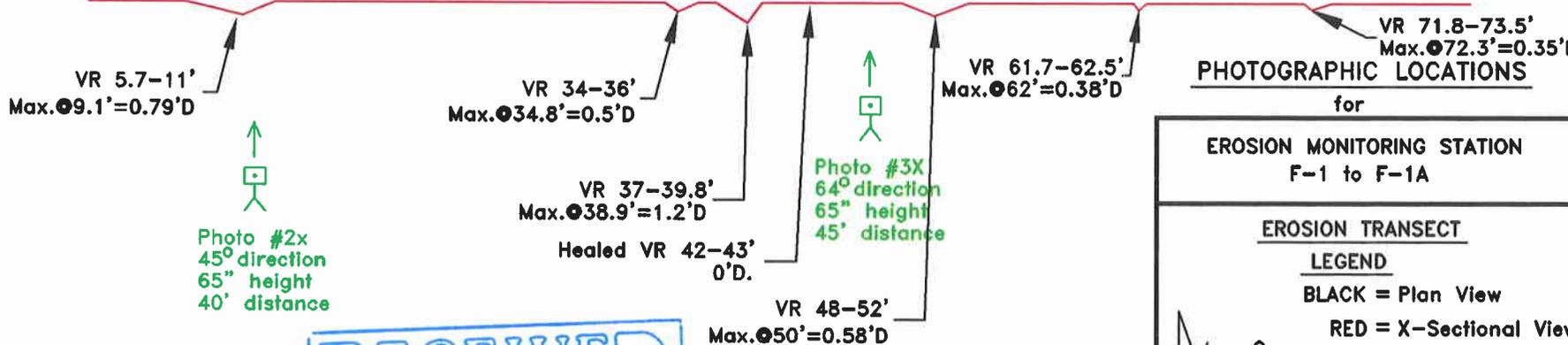
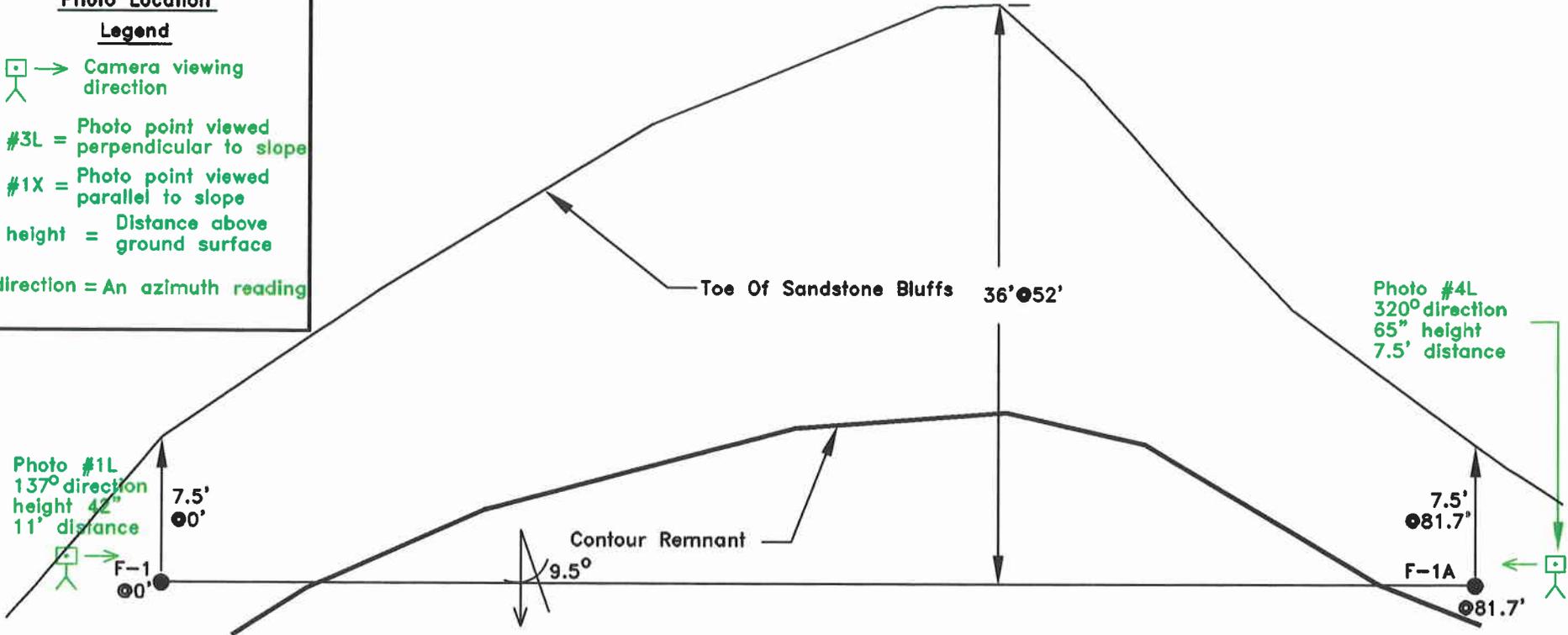


Photo Location

Legend

-  Camera viewing direction
- #3L = Photo point viewed perpendicular to slope
- #1X = Photo point viewed parallel to slope
- height = Distance above ground surface
- direction = An azimuth reading



PHOTOGRAPHIC LOCATIONS

for
EROSION MONITORING STATION
 F-1 to F-1A

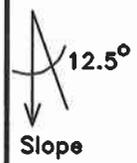
EROSION TRANSECT

LEGEND

- BLACK = Plan View
- RED = X-Sectional View

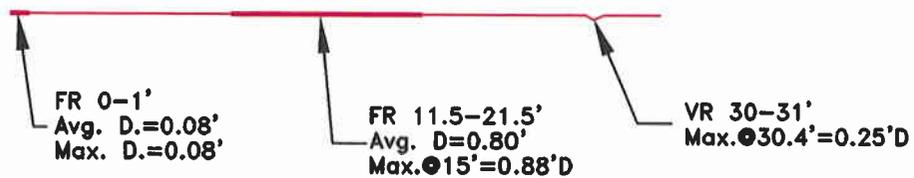
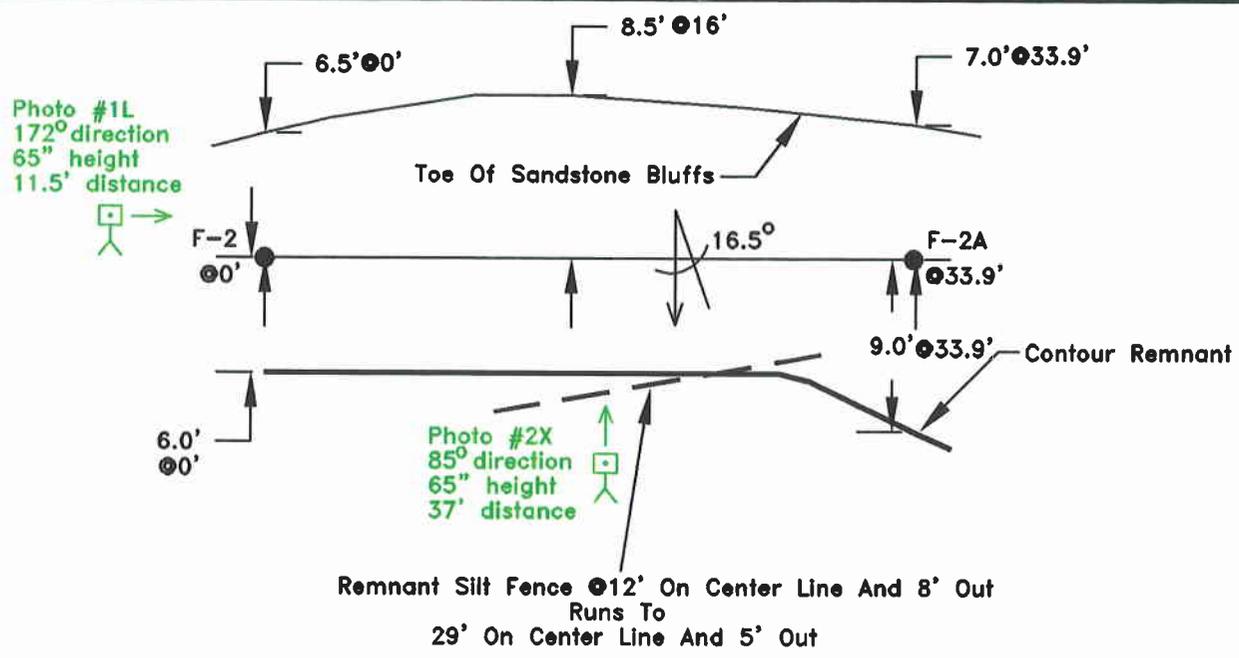
- FR = Flat Rill
- VR = V-Shaped Rill

Scale: 1"=10'



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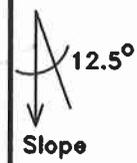


PHOTOGRAPHIC LOCATIONS
for

EROSION MONITORING STATION
F-2 to F-2A

EROSION TRANSECT

- LEGEND**
 BLACK = Plan View
 RED = X-Sectional View



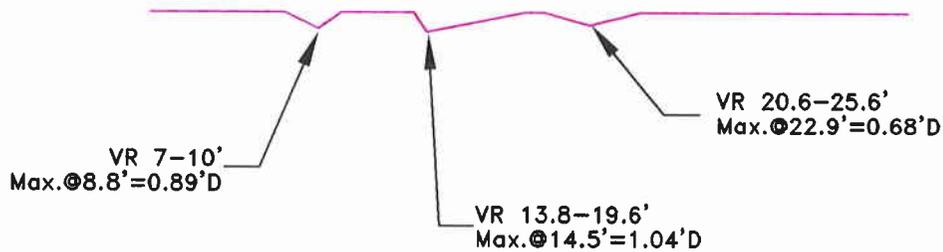
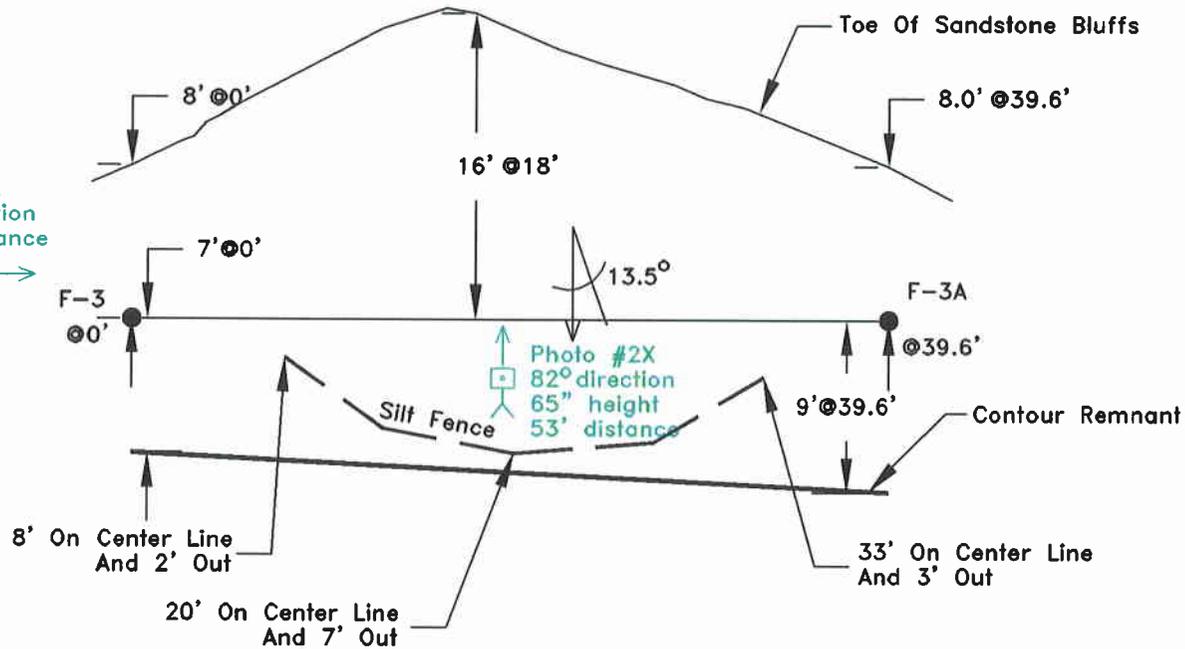
FR = Flat Rill
 VR = V-Shaped Rill
 Scale: 1"=10'
 Date: 7-28-95 Drawn: DRM
 Rev: 11-13-96 by EMG & LDB

Photo Location Legend

- Camera viewing direction
- #3L = Photo point viewed perpendicular to slope
- #1X = Photo point viewed parallel to slope
- height = Distance above ground surface
- direction = An azimuth reading

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Photo #1L
168° direction
12.5' distance



PHOTOGRAPHIC LOCATIONS

for

EROSION MONITORING STATION
F-3 to F-3A

EROSION TRANSECT

LEGEND

BLACK = Plan View
RED = X-Sectional View
FR = Flat Rill
VR = V-Shaped Rill
Scale: 1" = 10'



Photo Location

Legend

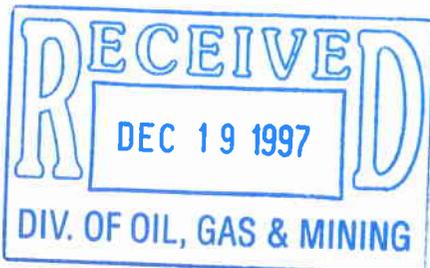


#3L = Photo point viewed perpendicular to slope

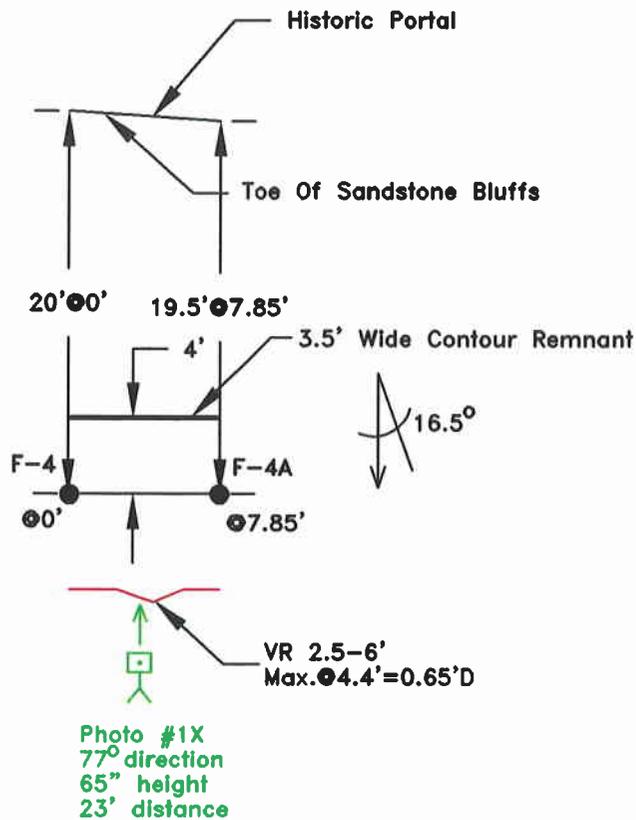
#1X = Photo point viewed parallel to slope

height = Distance above ground surface

direction = An azimuth reading



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PHOTOGRAPHIC LOCATIONS
for

EROSION MONITORING STATION
F-4 to F-4A

EROSION TRANSECT
LEGEND

BLACK = Plan View
RED = X-Sectional View
FR = Flat Rill
VR = V-Shaped Rill
Scale: 1"=10'



Date: 7-28-95 Drawn: DRM
Rev: 11-13-96 by EMG & LDB

Photo Location

Legend

 → Camera viewing direction
 #3L = Photo point viewed perpendicular to slope
 #1X = Photo point viewed parallel to slope
 height = Distance above ground surface
 direction = An azimuth reading

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