

Vol. 17, Pg. 433

# Plot of Gay's Plat

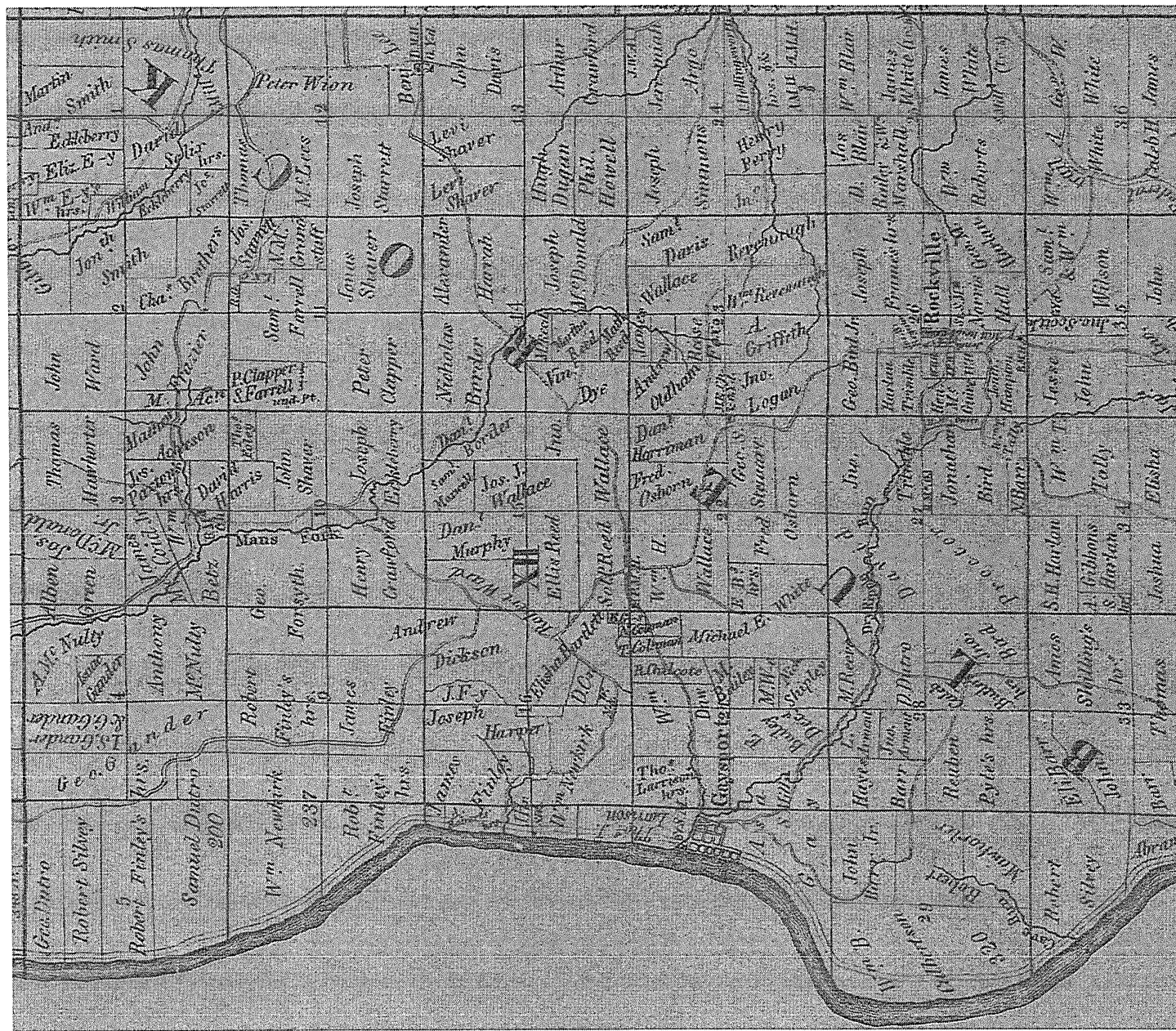
433

3 1/2 acres

North











SAYSPORT

ROAD

ST.

NORTH

34  
METSEW

ROBT.  
KING

M.L. PYLE

15  
H. W. CARLOW

14  
UNICE ROBERTS

J. O. PYLE  
13

8250  
8250  
M.L. PYLE  
12  
SILAS  
URBAN

16  
M. E.

15  
H. W. CARLOW

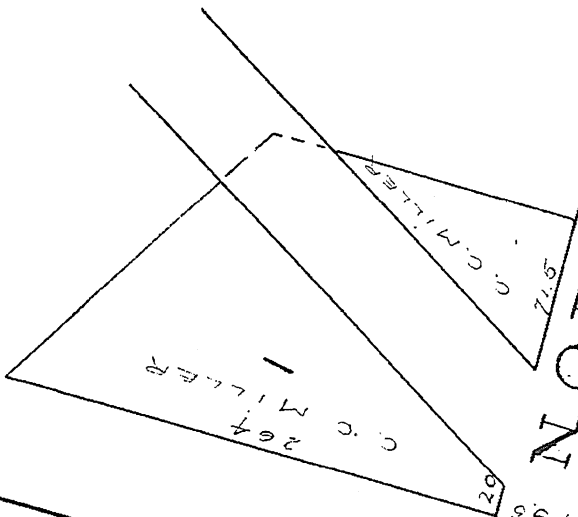
M. C. CARLOW

5  
RUTH. HONNOR

165  
3  
ELIZ  
MC. CLURE  
4

8  
J. W. W. OHLER

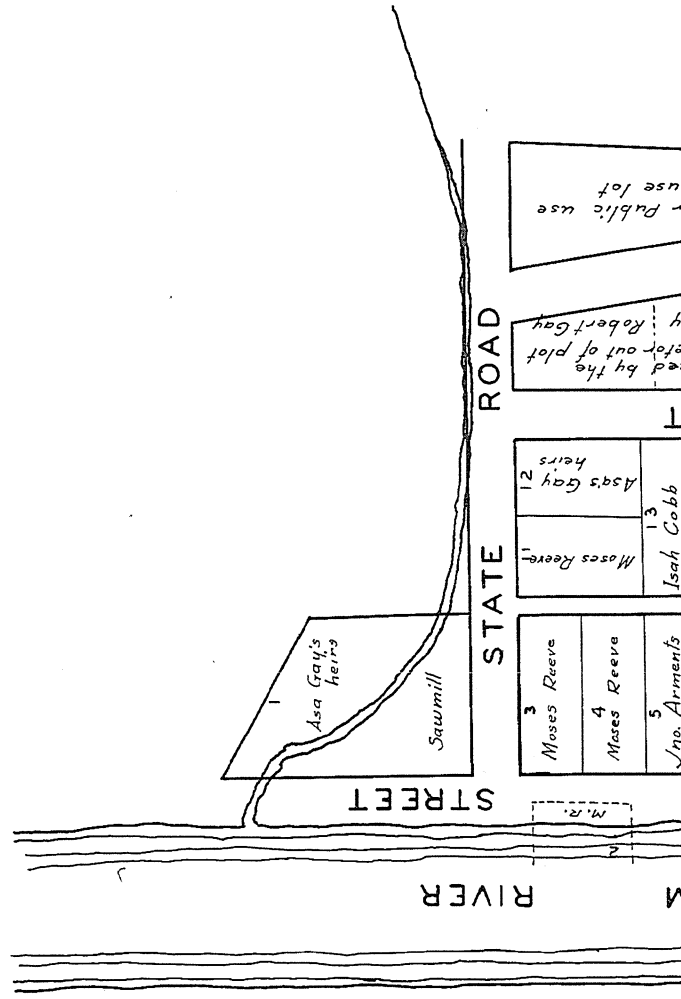
7  
J. C. URBAN





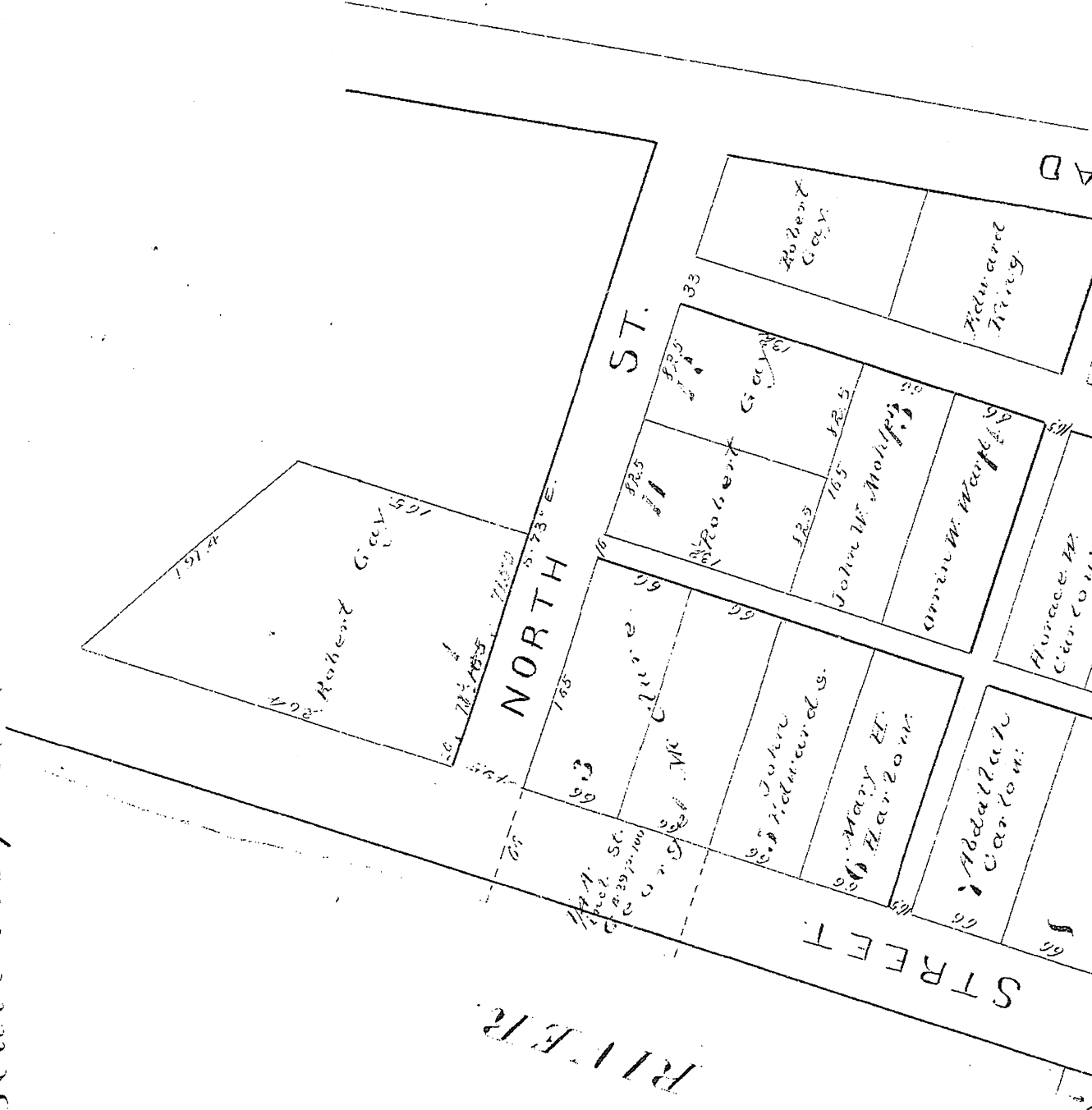
# PLOT OF GAY'S PORT BLUE ROCK TOWNSHIP

TRACED BY W.F.-J.K. SCALE 1/8 OF AN INCH TO 16 1/2 FEET CHECKED BY E.G.



# GAYSPORT

Scale 100 feet to an inch.



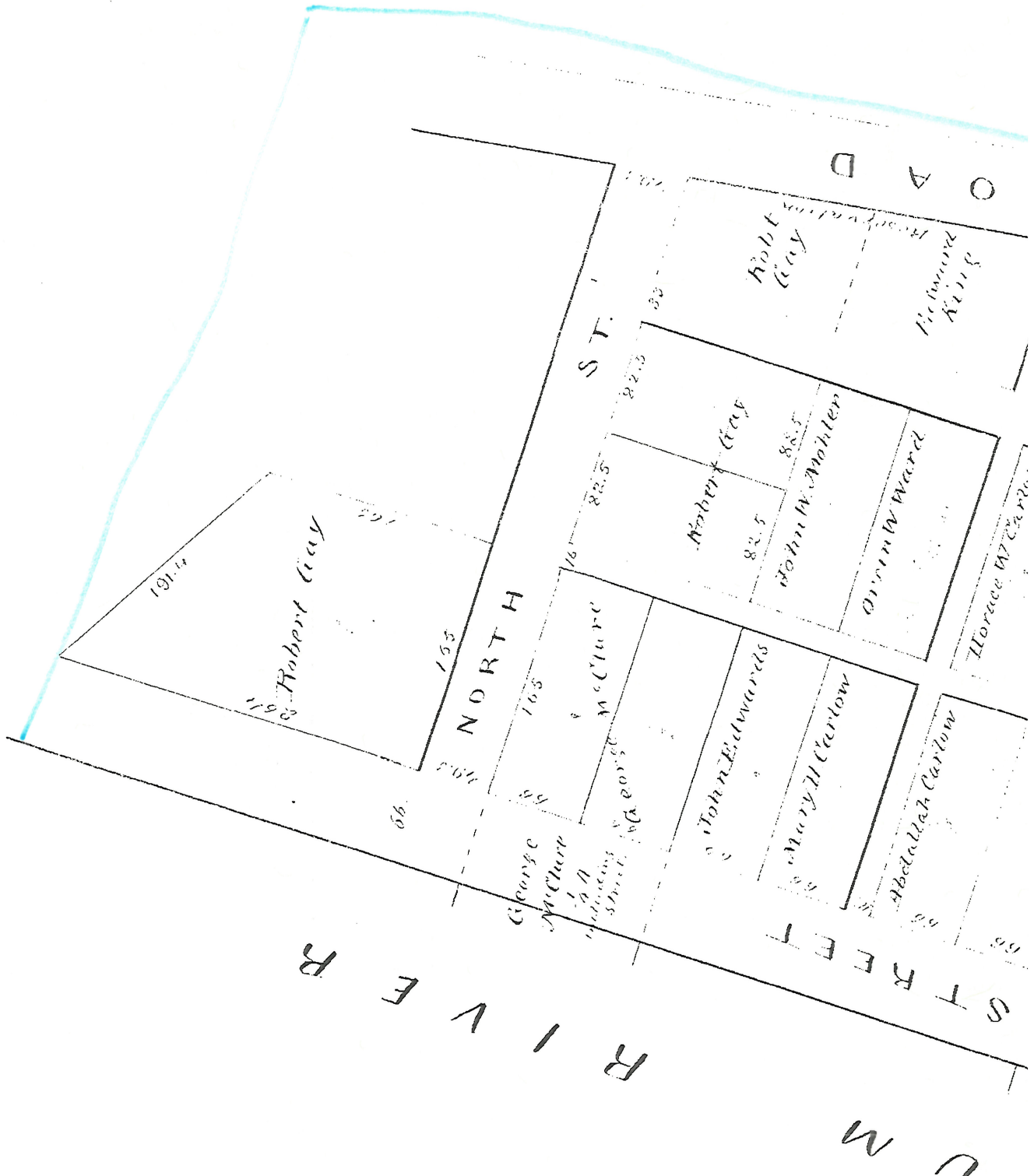


# GAYSPORT

Blue Rock Twp.

10

9881



1880  
M.C.P. North

CUMBER RIVER

NORTH ST.

ST.

O A D

83 Robert Gay  
191.4

George McClure  
105

McClure  
105

John Edwards  
82.5

Mary H. Cartow  
82.5

Abdallah Cartow  
82.5

Robert Gay  
82.5

John W. Mohler  
82.5

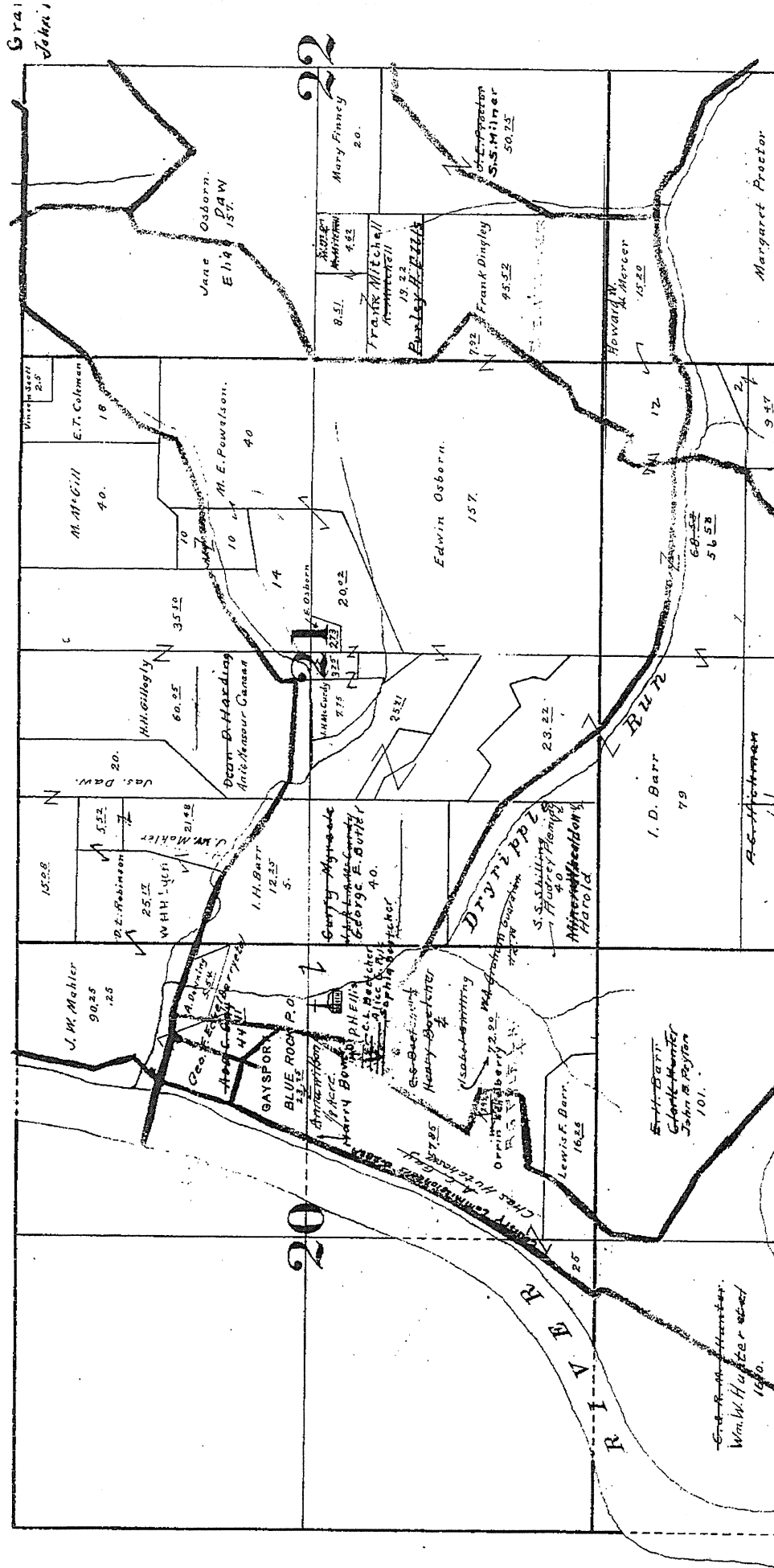
Orrin W. Ward  
82.5

Robt. Gay  
82.5

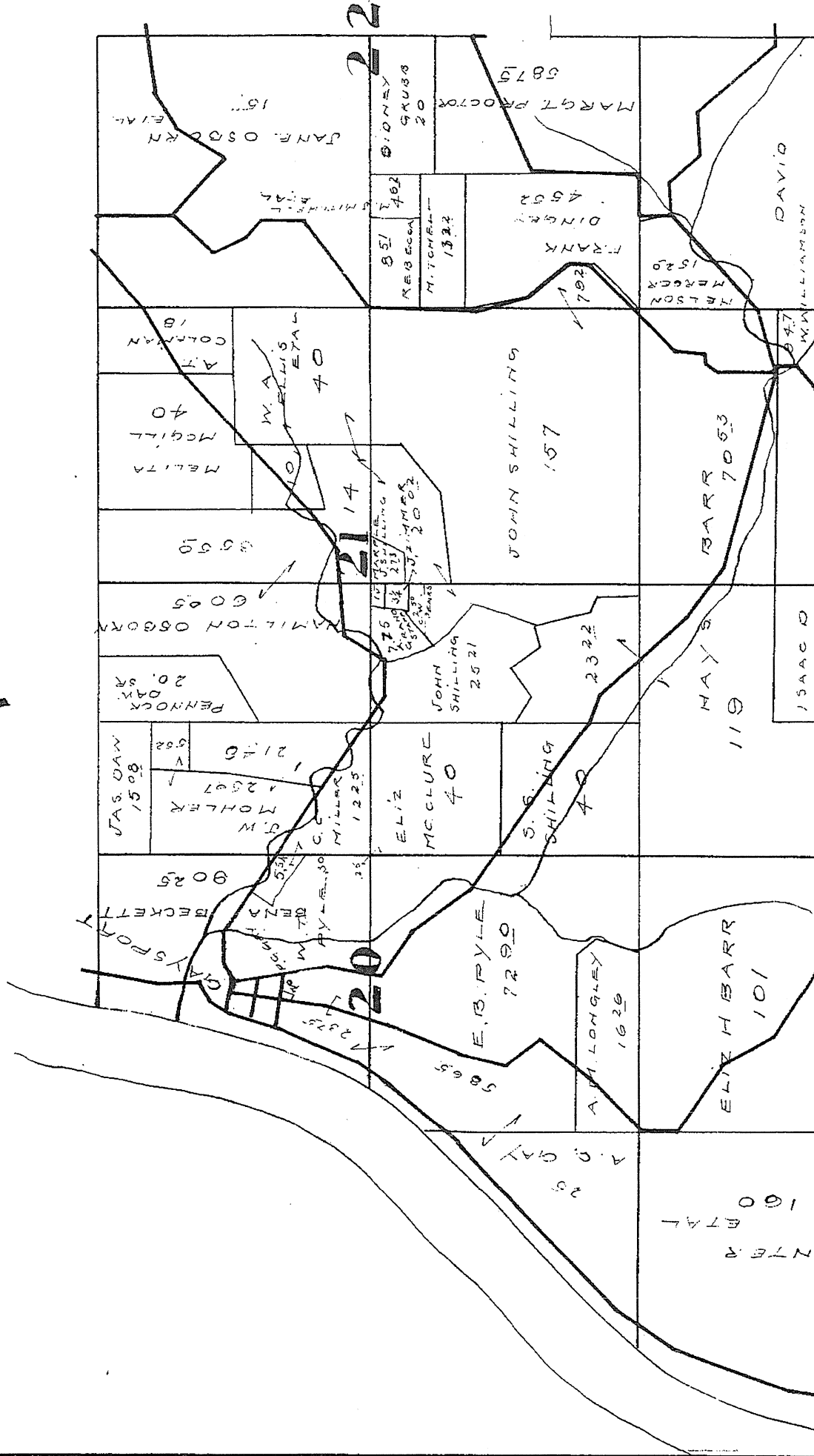
Richard King  
82.5

Horace W. Cartow  
82.5

QR. TP. 3, R. 12, TP. 12.



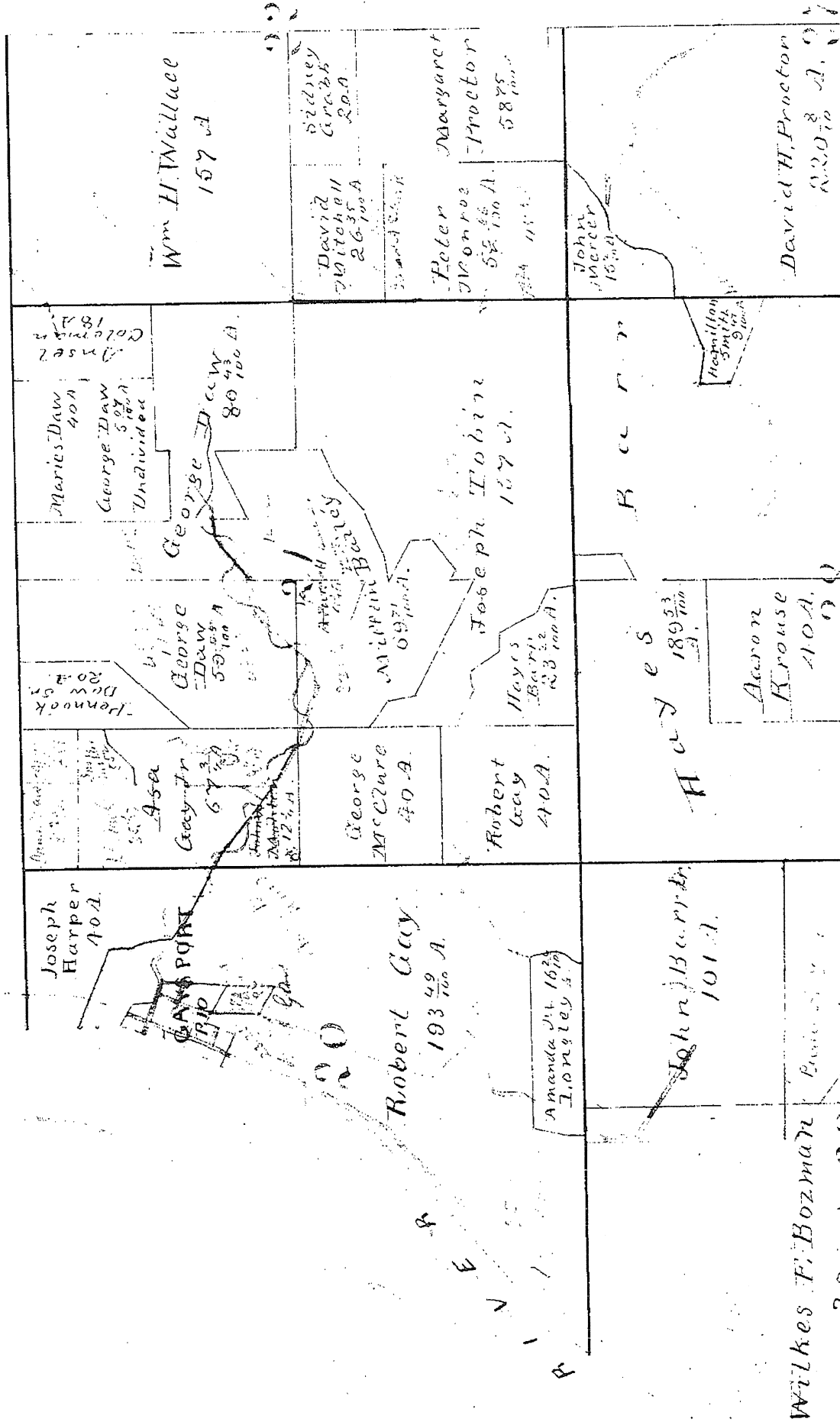
S-W-QR-T-12-R-12



600

Handwritten notes and signatures in the top left corner, including a signature that appears to be "W. H. Wallace".

Southwest Quarter, T. 12. R. 12. Blue Run

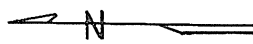
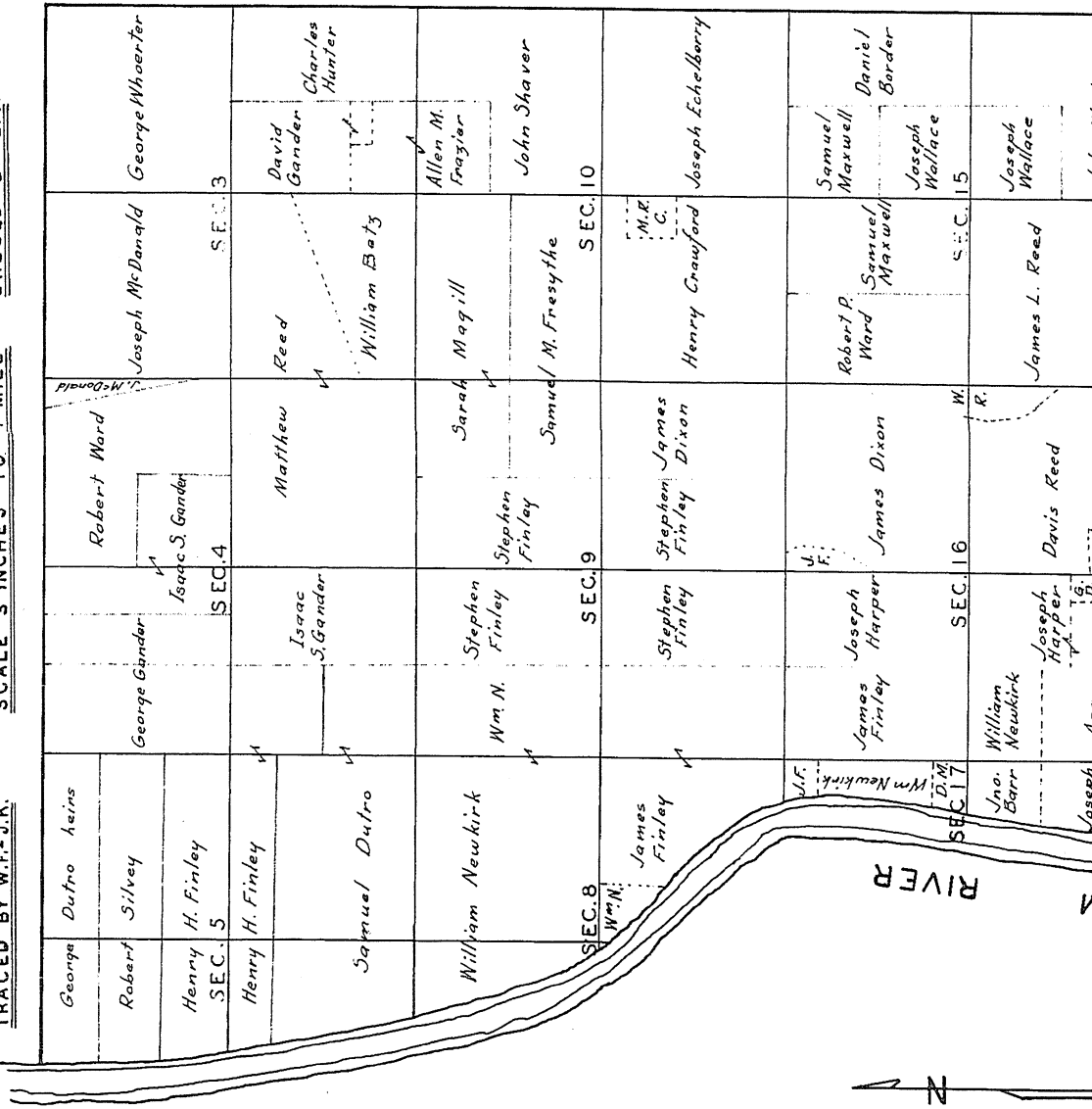






# BLUE ROCK TOWNSHIP RANGE-X

TRACED BY W.F.+J.K. SCALE 3 INCHES TO 1-MILE CHECKED BY E.G.

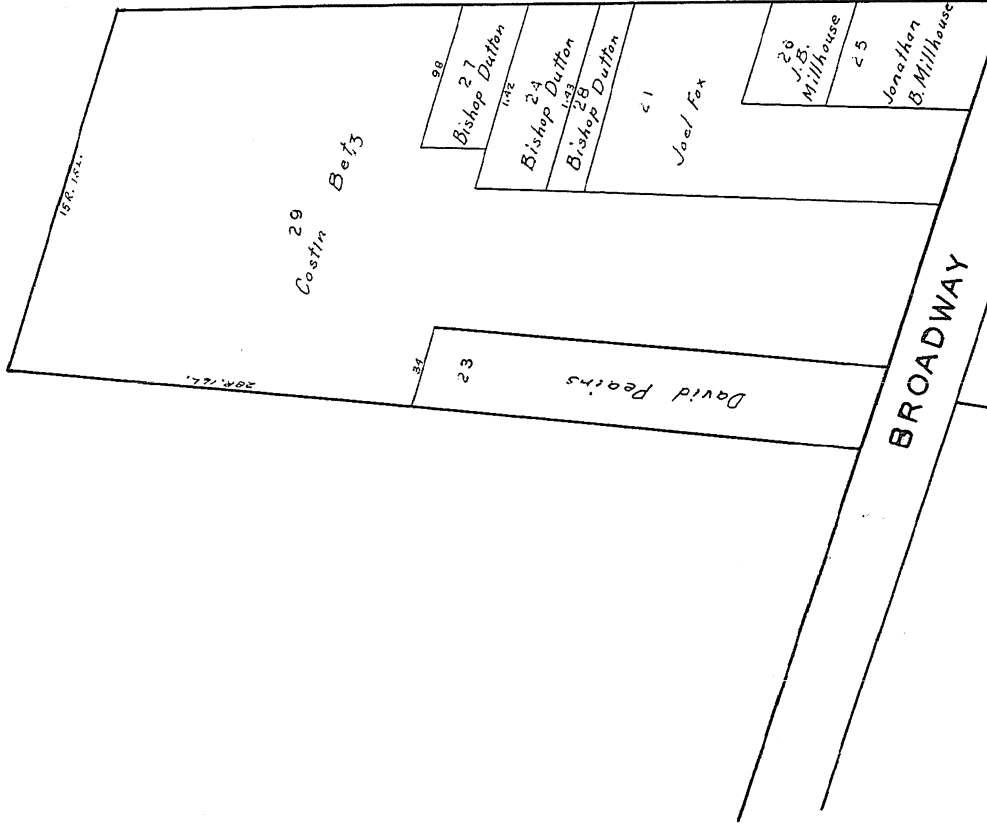




# RURAL-DALE

TRACED BY W.F.-J.K.

CHECKED BY E.G.

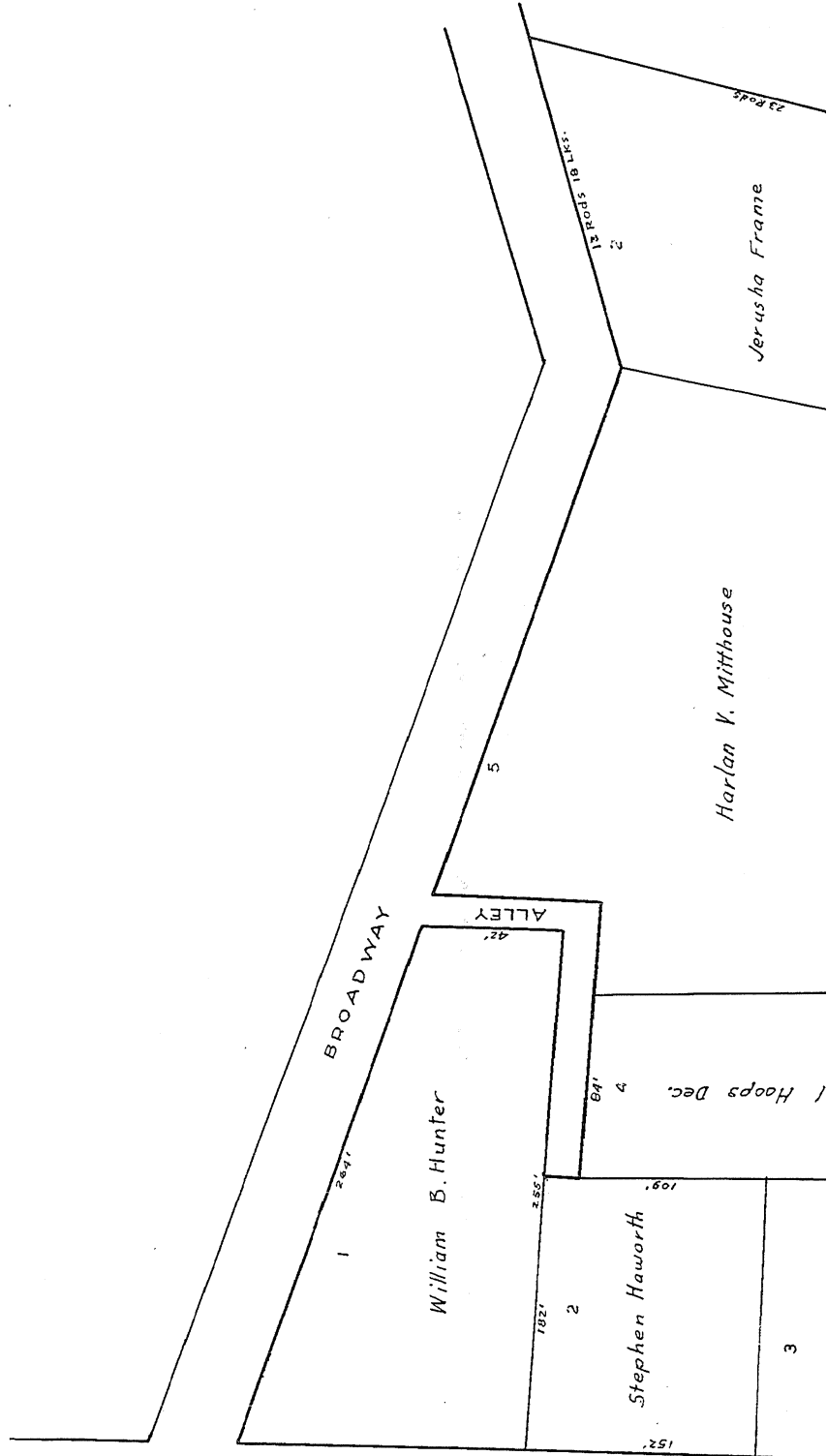




# PART OF RURAL-DALE

Traced by W.F. & J.K.

Checked by E.G.



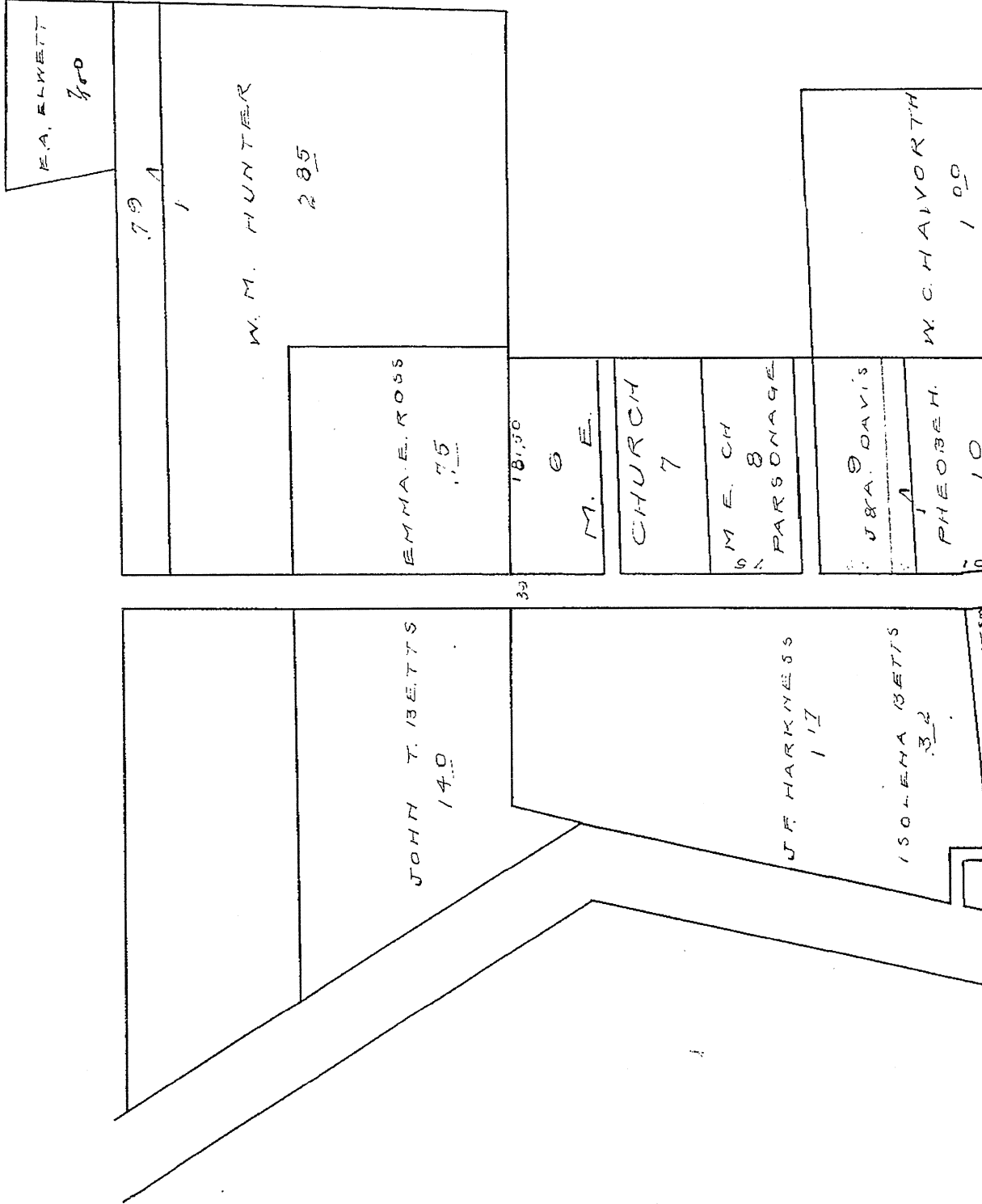




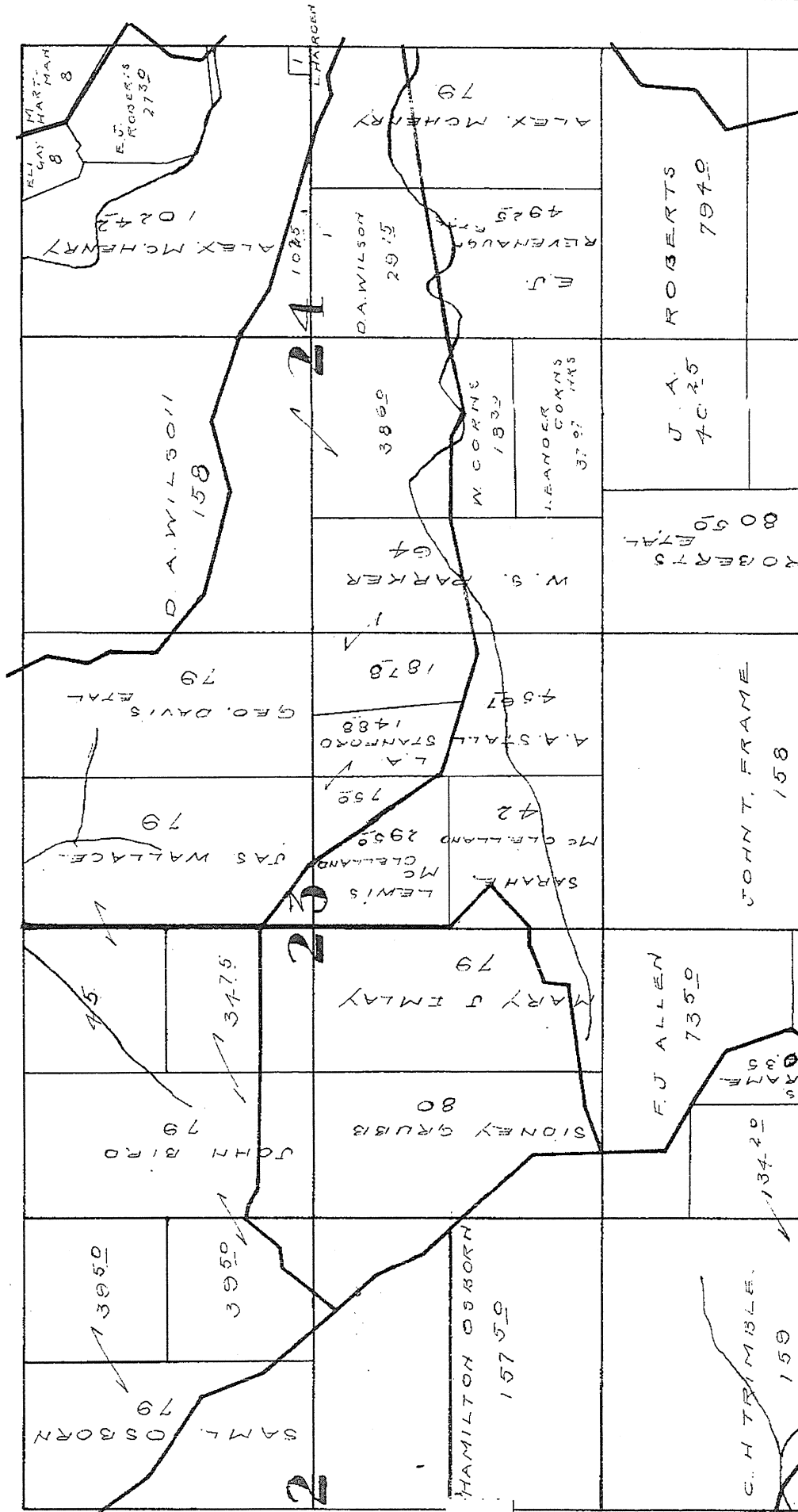




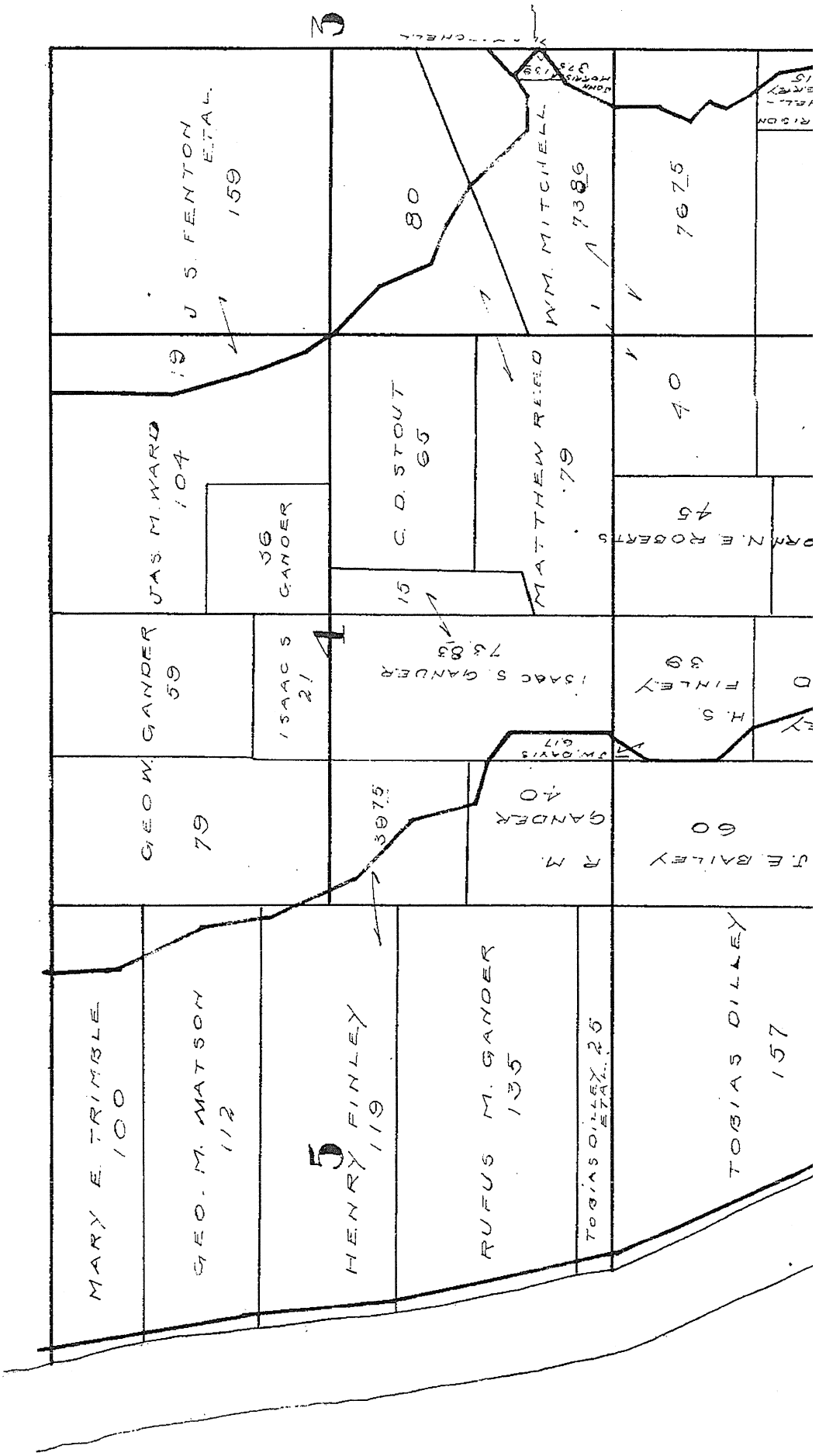
# R U R A L D A L E



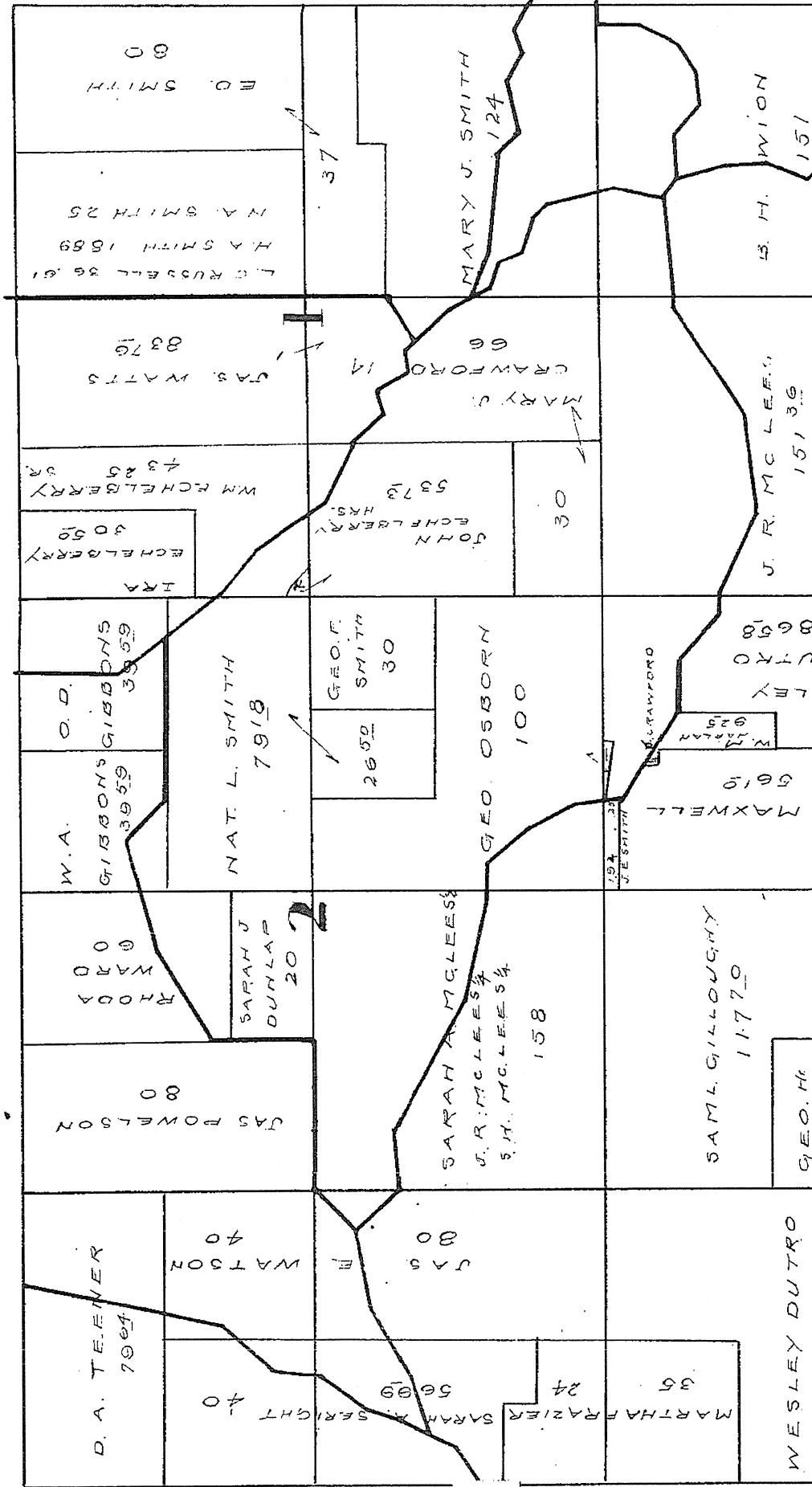
S - E - Q R - T - 1 2 R - 1 2



N-W-QR-T-12-R-12



N - E - Q R - T - 1 2 R - 1 2



# BLUE ROCK TOWNSHIP

TRACED BY W.F.-J.K.

CHECKED BY E. G.

Milton Ward	John Ward	John Gibbons	Valentine Eckelberry	Mary Clapper	Andrew Eckelberry	Martin Smith	Thomas Smith
SEC. 2		Jonathan Smith	William Eckelberry			SEC. 1	
John Frasier		Joseph Osborn	Joseph Starrett		Thomas Smith		
Peter Clapper	Samuel Farroll	Joseph Starrett	Thomas Mc Lees	Peter Wion	Peter Wion		
		Jonas Shaver	James Starrett	Benjamin Lee			
Daniel Borden		Frederick Shaver	Levi Shaver		John Davis		
SEC. 14	SEC. 12	SEC. 11	SEC. 10	SEC. 9	SEC. 8	SEC. 7	SEC. 6
Madison Dye	Joseph McDonald	James Cairnes	John & J. Warlman				



Northeast Quarter; T. 12, R. 12, Blue Rock.

Samuel Hopland 79 1/2 A.	James Powelson 80 A.	John Ward 60 A.	John Gibbons 70 1/2 A.	Talentine Eichenberg 30 1/2 A.	Thomas W Fisher 88 7/8 A.	Martin Smith 80 1/2 A.	Alary J. Smith 12 A. A.
Frederick Osborne 96 1/2 A.	William H. McCall 120 A.	Sarah A. Emmenthorpe 20 A.	Joseph Osborn 100 A.	William Fitchberry Sr. 97 7/8 A.	Thomas McLies 80 A.	Alary J. Smith 12 A. A.	
John Shaver 121 A.	Frederick Osborne 96 1/2 A.	James Powelson 80 A.	John Ward 60 A.	John Gibbons 70 1/2 A.	Talentine Eichenberg 30 1/2 A.	Martin Smith 80 1/2 A.	Alary J. Smith 12 A. A.
John Shaver 117 7/8 A.	George H.	James Powelson 80 A.	John Ward 60 A.	John Gibbons 70 1/2 A.	Talentine Eichenberg 30 1/2 A.	Martin Smith 80 1/2 A.	Alary J. Smith 12 A. A.
John Shaver 117 7/8 A.	George H.	James Powelson 80 A.	John Ward 60 A.	John Gibbons 70 1/2 A.	Talentine Eichenberg 30 1/2 A.	Martin Smith 80 1/2 A.	Alary J. Smith 12 A. A.
John Shaver 117 7/8 A.	George H.	James Powelson 80 A.	John Ward 60 A.	John Gibbons 70 1/2 A.	Talentine Eichenberg 30 1/2 A.	Martin Smith 80 1/2 A.	Alary J. Smith 12 A. A.

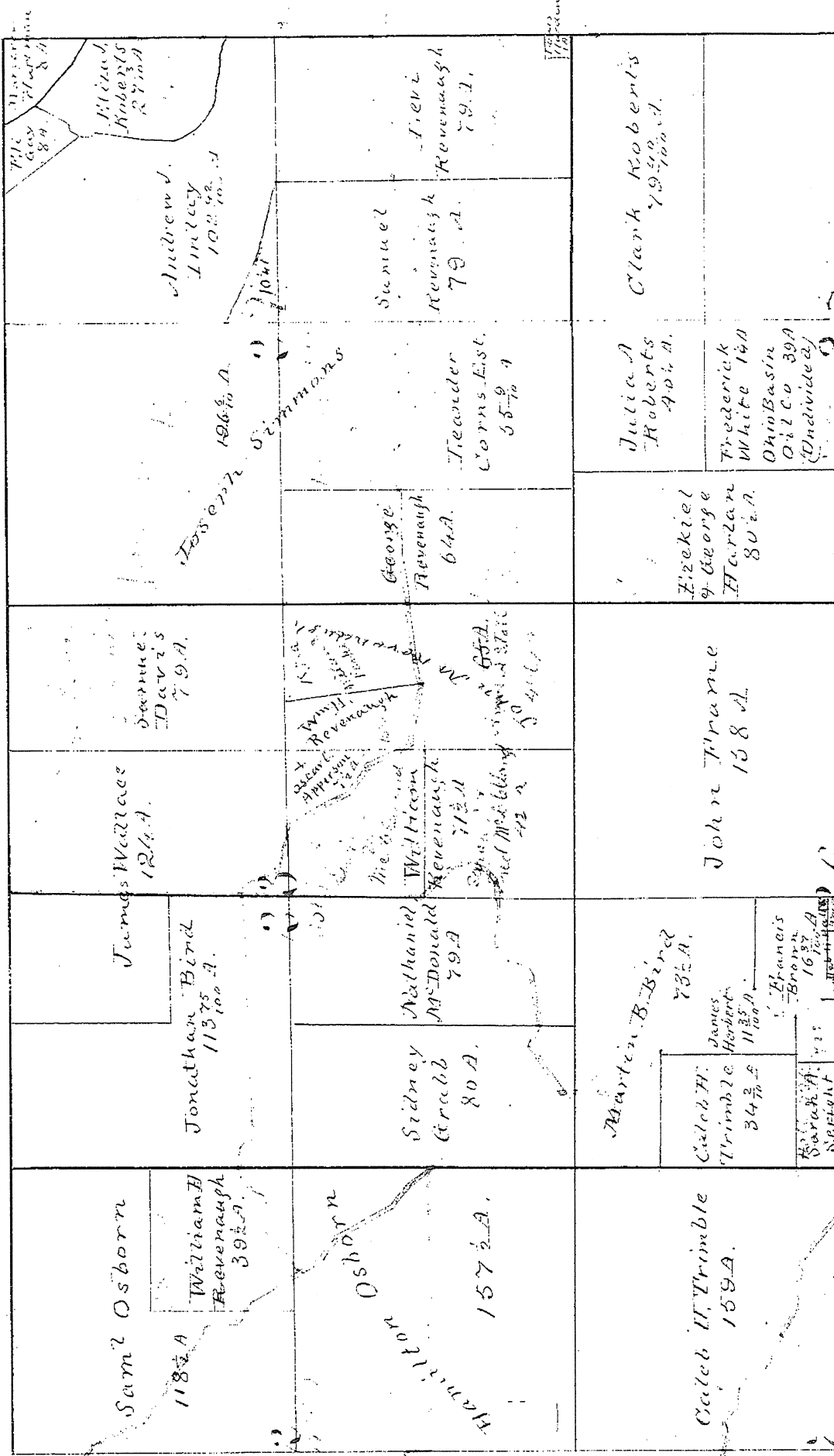


Northwest Quarter, T. 12, R. 12, Blue Rock

Edward Trumble 100 A.	George Gaarder	Joseph Mc Donald Jr. 159 A.	Joseph Mc Donald Jr. 159 A.
Daniel H. Chandler 112 A.	Isaac S. Gaarder 196 A.	Isaac S. Gaarder 196 A.	Isaac S. Gaarder 196 A.
Henry S. Finley 119 A.	Henry S. Finley	Henry S. Finley	Henry S. Finley
Samuel Duetro 160 A.	Samuel Duetro 90 A.	Samuel Duetro 90 A.	Samuel Duetro 90 A.
Abraham Willey 157 A.	Abraham Willey 80 A.	Joseph Finley 30 A.	Joseph Finley 30 A.
Nancy L. Roberts 80 A.	Nancy L. Roberts 80 A.	Nancy L. Roberts 80 A.	Nancy L. Roberts 80 A.
Sarah Mc Gill 76 1/2 A.	Sarah Mc Gill 90.	Sarah Mc Gill 90.	Sarah Mc Gill 90.
Harrison Lamborn 153.	Harrison Lamborn 153.	Harrison Lamborn 153.	Harrison Lamborn 153.

RIVER

Southeast Quarter, T.12, R.12, Blue Rock.





Northwest Quarter, T. 12, R. 12, Blue Rock

<p>Edward Trumble 100 A.</p>	<p>George Gaarder</p>	<p>Isaac S. Gaarder 196 A.</p>	<p>Joseph McDonald Jr. 159 A.</p>	<p>Joseph McDonald Jr. 159 A.</p>
<p>Demier H. Chandler 112 A.</p>	<p>Henry S. Finley 119 A.</p>	<p>Henry S. Finley</p>	<p>Isaac S. Gaarder 196 A.</p>	<p>Isaac S. Gaarder 196 A.</p>
<p>Henry S. Finley 119 A.</p>	<p>Samuel Duetto 160 A.</p>	<p>Samuel Duetto 160 A.</p>	<p>Samuel Duetto 160 A.</p>	<p>Samuel Duetto 160 A.</p>
<p>Abraham Dilley 157 A.</p>	<p>Abraham Dilley 80 A.</p>	<p>Joseph Finley 59 A.</p>	<p>Nancy L. Roberts 80 A.</p>	<p>Nancy L. Roberts 80 A.</p>
<p>Abraham Dilley 157 A.</p>	<p>Abraham Dilley 80 A.</p>	<p>Joseph Finley 59 A.</p>	<p>Nancy L. Roberts 80 A.</p>	<p>Nancy L. Roberts 80 A.</p>
<p>Abraham Dilley 157 A.</p>	<p>Abraham Dilley 80 A.</p>	<p>Joseph Finley 59 A.</p>	<p>Nancy L. Roberts 80 A.</p>	<p>Nancy L. Roberts 80 A.</p>
<p>Abraham Dilley 157 A.</p>	<p>Abraham Dilley 80 A.</p>	<p>Joseph Finley 59 A.</p>	<p>Nancy L. Roberts 80 A.</p>	<p>Nancy L. Roberts 80 A.</p>
<p>Abraham Dilley 157 A.</p>	<p>Abraham Dilley 80 A.</p>	<p>Joseph Finley 59 A.</p>	<p>Nancy L. Roberts 80 A.</p>	<p>Nancy L. Roberts 80 A.</p>
<p>Abraham Dilley 157 A.</p>	<p>Abraham Dilley 80 A.</p>	<p>Joseph Finley 59 A.</p>	<p>Nancy L. Roberts 80 A.</p>	<p>Nancy L. Roberts 80 A.</p>

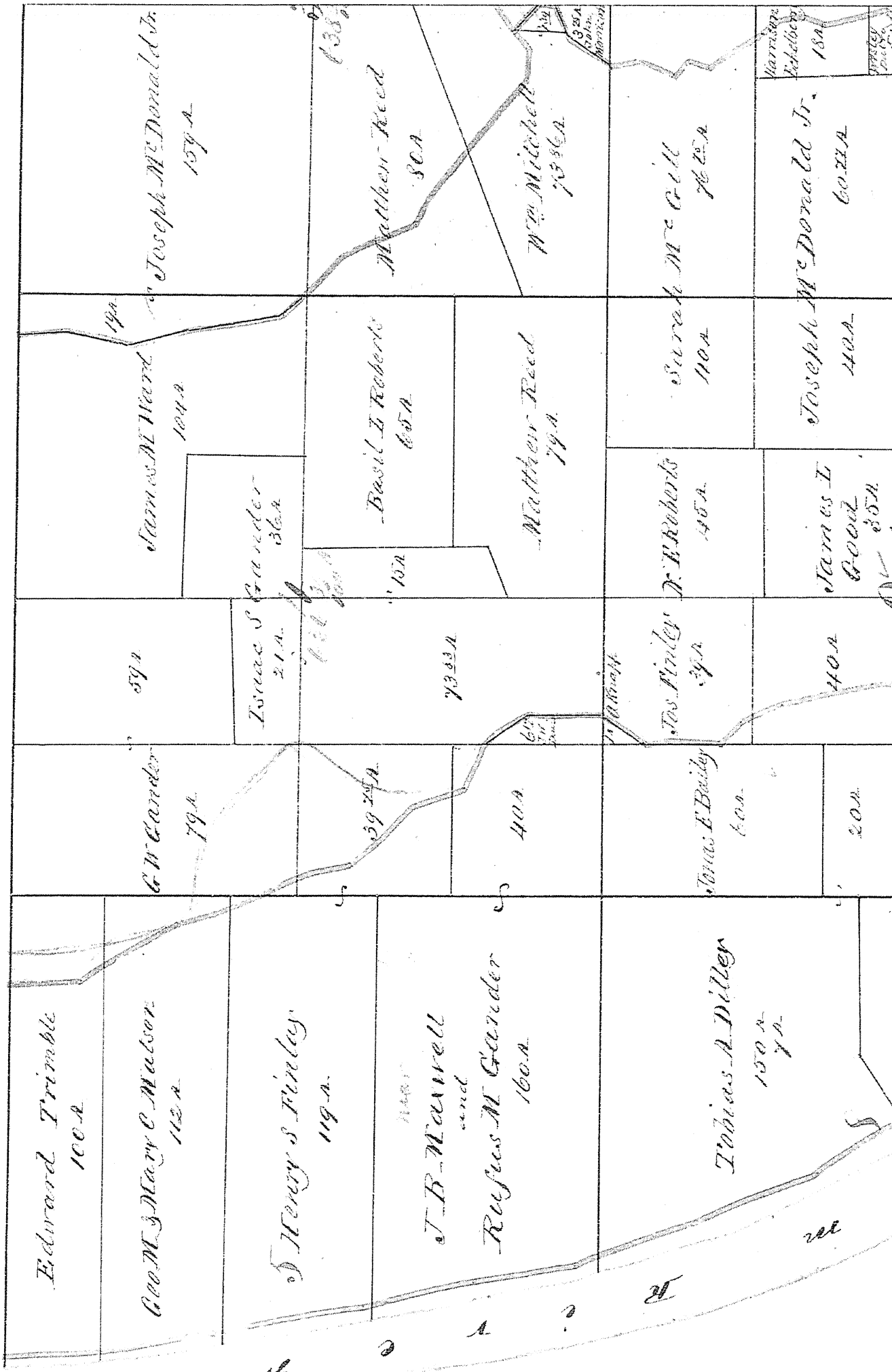
RIVER



*G r a t i o t*

*Frank Street*





Edward Trimble  
100 A

Geo M & Mary C Mulson  
112 A

Henry S Finley  
119 A

J B Maxwell  
and

Rufus M Gander  
160 A

Tobias A Diller  
150 A  
7 A

G W Gander  
79 A

Isaac S Gander  
21 A  
36 A

James M Ward  
104 A

Joseph M Donald Jr  
159 A

59 2/3 A

10 A

Basil L Roberts  
65 A

Matthew Reed  
80 A

73 1/3 A

Matthew Reed  
79 A

Wm Mitchell  
73 1/3 A

Tom Finley  
34 A

J H Roberts  
45 A

Sarah Mc Gill  
110 A  
76 2/3 A

Tom E Bailey  
60 A

20 A

James I Good  
85 A

Joseph M Donald Jr  
140 A

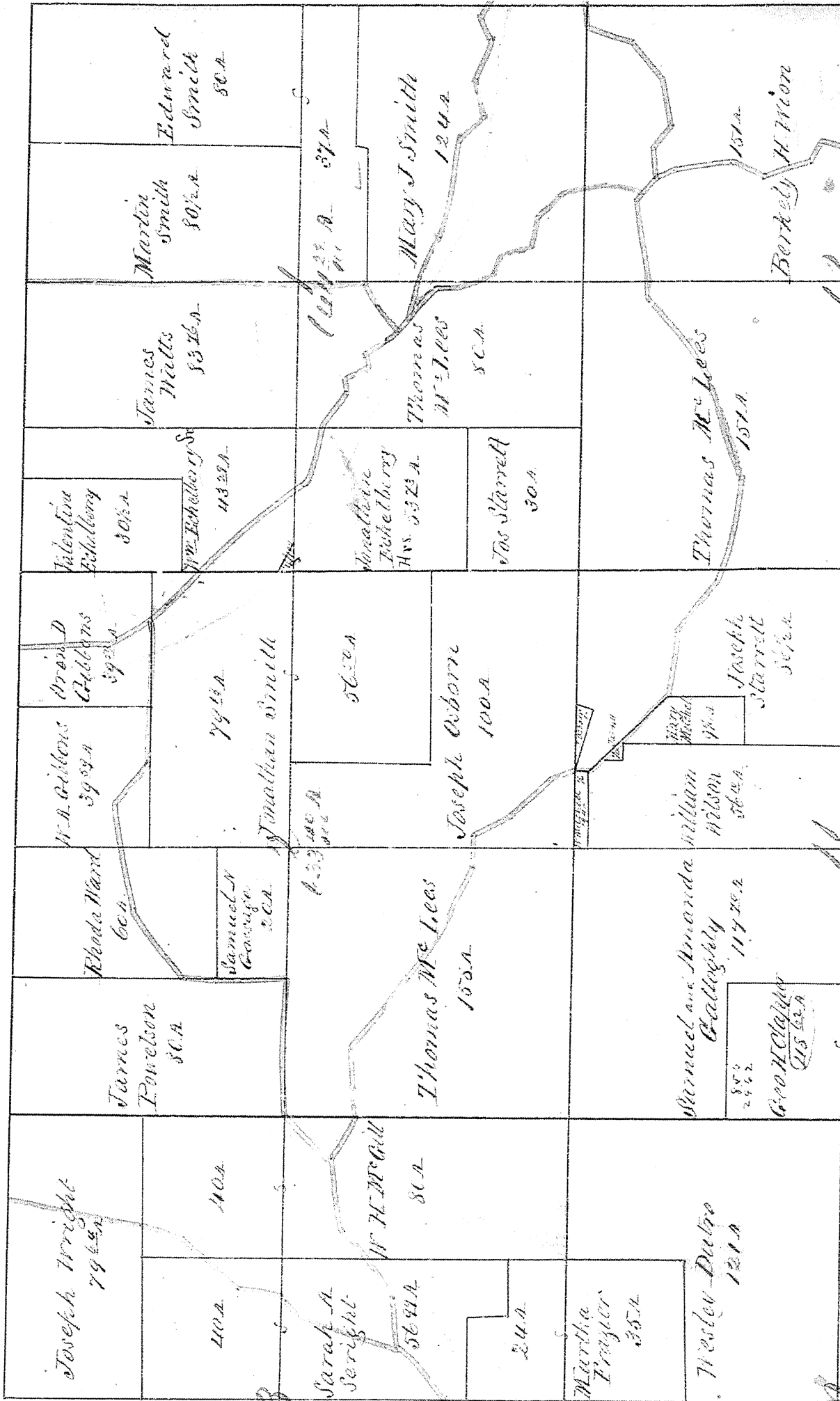
Joseph M Donald Jr  
60 2/3 A

22

13 2/3 A  
180 A  
180 A  
180 A







# Rural Dale Blue Rock Township

E. A. Elwell  
7/100

A

A

79/100 a

M. M. Hunter  
2.85 a

A

Nancy Moore

75/100 a

Quinn & Reed

1515

658

72

69

69

71

68

85

M. E. Church

Parsonage

Phoebe H. Trimble

Phoebe H. Trimble

10

12 11 10 9 8 7 6 5 4 3 2 1

John T. Bells

1/100 a

A

5

Elizabeth Ausler

1/100 a

Isoline Bells

3/100 a

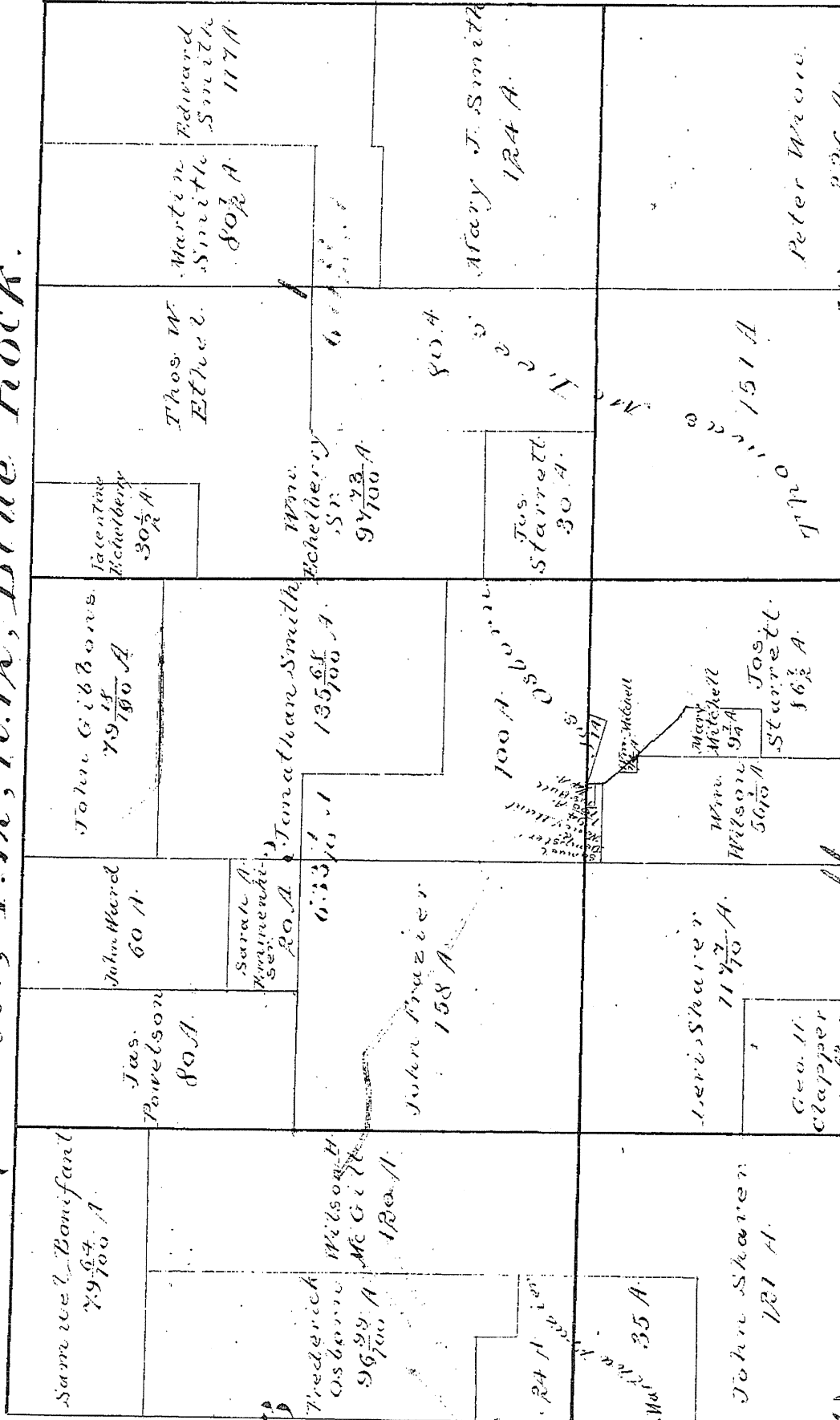
2

N.W. Quarter T. 12, R. 12, Blue Rock.

Edward Tremble 100 A.	Geo. Gander 79 A.	Robert Ward 101 A.	Jos. McDonald Jr. 159 A.
Daniel B. Chandler 112 A.	Isaac S. Gander 196 A.	630/1000 A.	Reed 80 A.
Henry S. Fry 119 A.	630/1000 A.	Malcolm 159 A.	Thos. Cussage 73 5/8 A.
Samuel 160 A.	Jos. Finley 39 A.	Henry H. Roberts 80 A.	Sarah McGill 60 7/8 A.
Abraham Dilley 154 A.	80 A.	Jos. McDonald Jr. 60 7/8 A.	Montgomery 13 A.

MUSKINGUM

N. E. Quarter; T. 12, R. 12, Blue Rock.

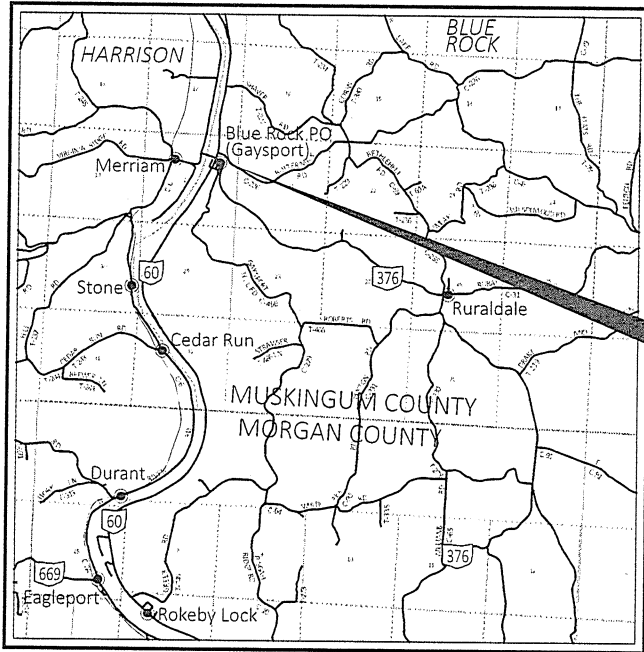


# STATE OF OHIO DEPARTMENT OF TRANSPORTATION

## MUS - 3

### BLUE ROCK

### MUSKINGUM



**LOCATION MAP**

LATITUDE: 39°48'11" LONGITUDE: -81°53'24"



PORTION TO BE IMPROVED	-----	=====
INTERSTATE HIGHWAY	-----	=====
FEDERAL ROUTES	-----	=====
STATE ROUTES	-----	=====
COUNTY & TOWNSHIP ROADS	-----	=====
OTHER ROADS	-----	=====

**DESIGN DESIGNATION**

CURRENT ADT (2023)	-----	410
DESIGN YEAR ADT (2043)	-----	610
DESIGN HOURLY VOLUME (2043)	-----	72
DIRECTIONAL DISTRIBUTION	-----	55%
TRUCKS (24 HOUR B&C)	-----	3%
DESIGN SPEED	-----	55
LEGAL SPEED	-----	55
DESIGN FUNCTIONAL CLASSIFICATION:		
RURAL - MAJOR COLLECTOR		
NHS PROJECT	-----	NO

**DESIGN EXCEPTIONS**

NONE

**ADA DESIGN WAIVERS**

NONE REQUIRED

**UNDERGROUND UTILITIES**  
Contact Two Working Days  
Before You Dig

**OHIO811.org**  
Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764  
(Non members must be called directly)

PLAN PREPARED BY:  
OHIO DEPARTMENT  
OF TRANSPORTATION  
DISTRICT 5

**INDEX OF SHEETS:**

- TITLE SHEET
- SCHEMATIC PLAN
- TYPICAL SECTIONS
- PLAN NOTES
- MAINTENANCE OF TRAFFIC
- GENERAL SUMMARY
- PAVEMENT & PAVEMENT IN
- PLAN & PROFILE
- GRADING CROSS SECTIONS
- CULVERT DETAIL SHEET
- CULVERT INSTALL CROSS SE

**STANDARD CONSTRUCTION DRAWING**

BP-3.1	1/21/22		
BP-5.1	7/15/22		
CB-3A	7/16/21		
DM-1.1	7/17/20		
DM-4.4	1/15/16		
MT-97.10	4/19/19		
MT-101.60	1/17/20		
MT-105.10	1/17/20		
TC-41.20	10/18/13		
TC-65.10	1/17/14		
TC-65.11	7/15/22		

MUS-376-5.09

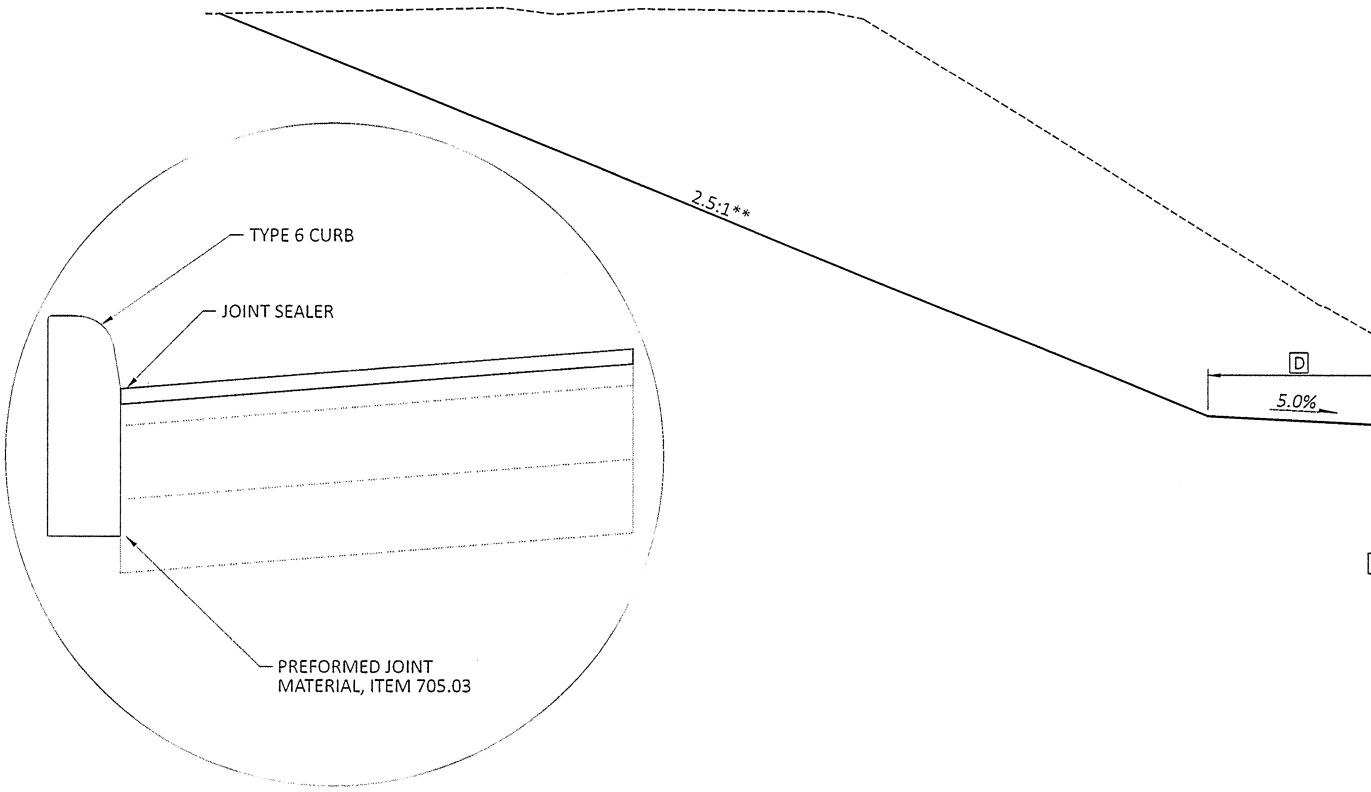
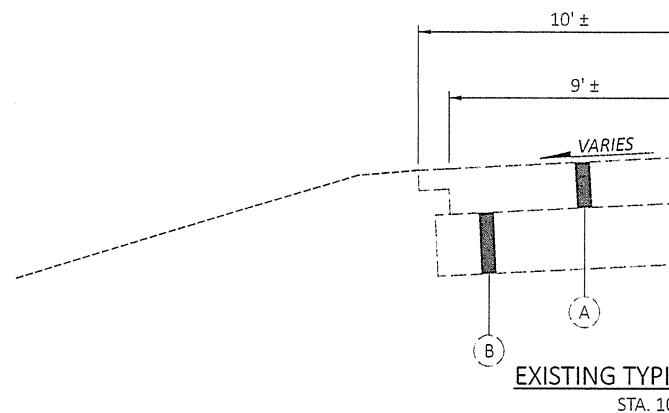
MODEL: Sheet PAPER SIZE: 34x22 (in.) DATE: 06/20/23 TIME: 7:54:34 AM USER: gmoalsche  
pvc:\ohio\dot-pvc\benley.com\ohio\dot-pvc-02\Documents\01-Active Projects\District 05\Muskingum\115989\400-Engineering\Roadway\Sheets\115989\_CT001.dgn



MUS-376-5.09

MODEL: Sheet PAPER SIZE: 34x22 (in.) DATE: 6/6/2023 TIME: 7:55:17 AM USER: gmatische  
pw:\hohdod-pw-bentley.com\hohdod-pw-02\Documents\01 Active Projects\District 05\Muskingum\115989\400-Engineering\Roadway\Sheets\115989\_GY001.dgn

- LEGEND**
- (A) EX. ASPHALT CONCRETE (UNKNOWN DEPTH)
  - (B) EX. AGGREGATE BASE (UNKNOWN DEPTH)



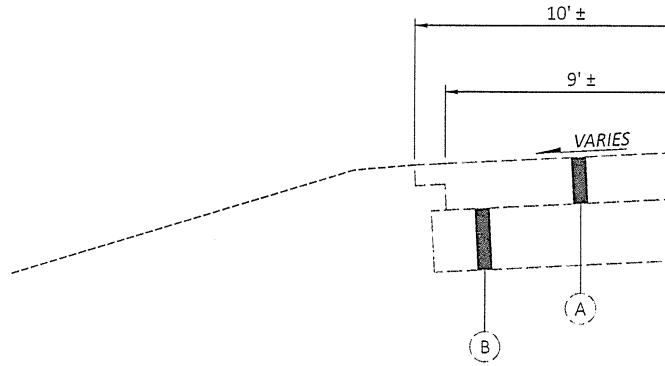
EDGE OF PAVEMENT DETAIL (TYP)

- LEGEND**
- (1) ITEM 202 PAVEMENT REMOVED
  - (2) ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG70-22M (1.25")
  - (3) ITEM 441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449) (1.75")
  - (4) ITEM 301 ASPHALT CONCRETE BASE, PG64-22, (449) (6")
  - (5) ITEM 304 AGGREGATE BASE (6")
  - (6) ITEM 407 NON-TRACKING TACK COAT
  - (7) ITEM 204 SUBGRADE COMPACTION
  - (8) ITEM 609 CURB, TYPE 6

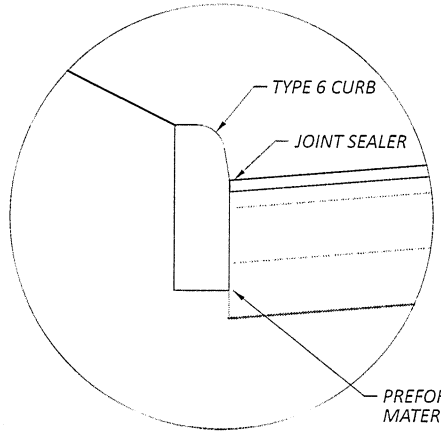
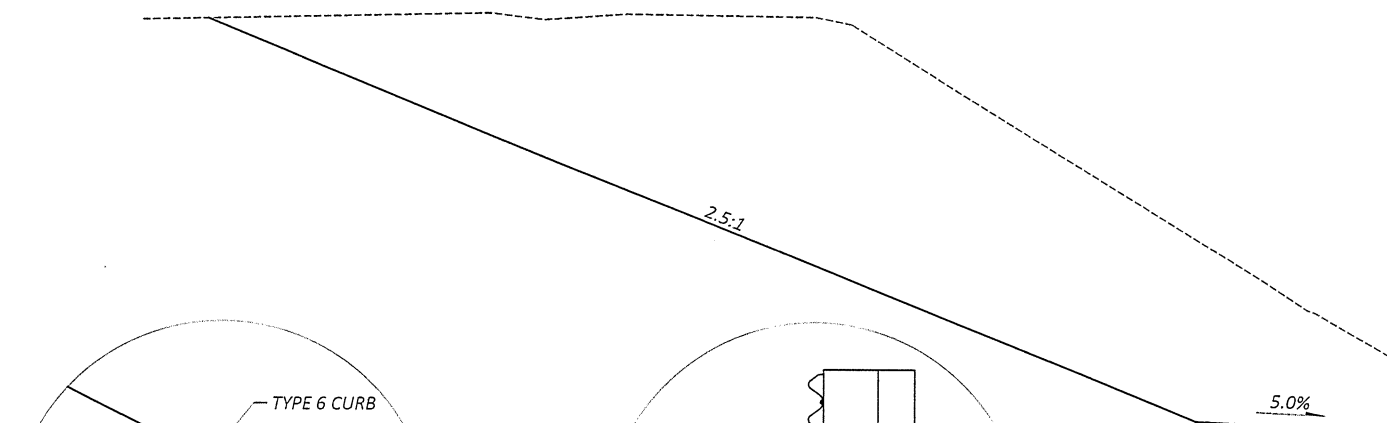
**PROPOSED SHOULDER WIDENING**  
 STA. 10+20.00 - 14+4  
 STA. 10+55.00



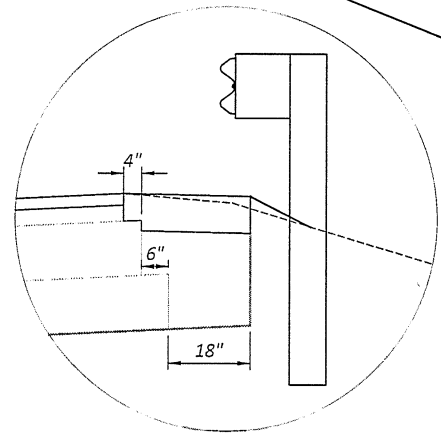
- LEGEND**
- (A) EX. ASPHALT CONCRETE (UNKNOWN DEPTH)
  - (B) EX. AGGREGATE BASE (UNKNOWN DEPTH)



**EXISTING TYPICAL SECTION F**  
STA. 1:



EDGE OF PAVEMENT DETAIL LT. (TYP)



EDGE OF PAVEMENT DETAIL RT. (TYP)

- LEGEND**
- |   |  |
|---|--|
| (1) ITEM 202 PAVEMENT REMOVED   | (6) ITEM 407 NON-TRACKING TACK COAT                |
| (2) ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG70-22M (1.25") | (7) ITEM 204 SUBGRADE COMPACTION                   |
| (3) ITEM 441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449) (1.75")      | (8) ITEM 617 COMPACTED AGGREGATE, 8"               |
| (4) ITEM 301 ASPHALT CONCRETE BASE, PG64-22, (449) (6")                       | (9) ITEM 606 GUARDRAIL, TYPE 5, USING 9 FOOT POSTS |
| (5) ITEM 304 AGGREGATE BASE (6")  |  |



**ROUNDING**

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS, EVEN THOUGH OTHERWISE SHOWN.

**UNDERGROUND UTILITIES**

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

**UTILITIES**

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

AT&T Ohio  
160 North Sixth Street  
Zanesville, Ohio 43701  
Attn: Barret Tamasovich  
740-454-3552  
BT2178@att.com

Natural Gas and Oil Cooperative  
120 O'Neil Drive  
Hebron, Ohio 43025  
Attn: Will Poling  
740-641-8751  
wpoling@theenergycoop.com

Guernsey-Muskingum Electric  
Cooperative, Inc.  
17 South Liberty Street  
New Concord, Ohio 43762  
Attn: Blake West  
740-826-7970  
bwest@gmenergy.com

Spectrum Cable TV  
737 Howard St.  
Zanesville, Ohio 43701  
Attn: Zack Allen  
614-255-2819  
Zackary.Allen1@charter.com

**WORK LIMITS**

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

**CLEARING AND GRUBBING**

THE DEPARTMENT HAS NOT MARKED INDIVIDUAL TREES AND STUMPS FOR REMOVAL. UNLESS SPECIFICALLY DESIGNATED AS "DO NOT DISTURB" IN THE PLANS, REMOVE ALL TREES AND STUMPS WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201 CLEARING AND GRUBBING.

**EXISTING STRUCTURE VERIFICATION**

DETAILS AND DIMENSIONS SHOWN ON THE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM THE DESIGN PLANS OF THE EXISTING PIPE'S ORIGINAL INSTALLATION. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK, BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO C&MS 102.05 AND 105.02.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

**BORROW AND WASTE AREAS**

THE CONTRACTOR SHALL COMPLY WITH CMS SECTION 107.10 FOR ALL BORROW AND WASTE AREAS ASSOCIATED WITH THE PROJECT.

**CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL**

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A W-BEAM, BEAM SPLICE AS SHOWN IN AASHTO M 180-12, EXCEPT THE BEAM WASHERS ARE NOT TO BE USED. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

**EARTHWORK**

ITEM 203, EXCAVATION (10203 CY)  
10201 CY (SHEET 25) + 2 CY (SHEET 28) = 10203 CY

**SEEDING AND MULCHING**

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

ITEM 659, SEEDING AND MULCHING, CLASS 2 (3210 SY)  
3122 SY (SHEET 25) + 88 SY (SHEET 28) = 3210 SY

ITEM 659, COMMERCIAL FERTILIZER (0.4 TON)  
1 TON PER 7,410 SY OF PERMANENT SEEDED AREA

ITEM 659, LIME ACRES (0.7 ACRE)  
3210 / 4840 = 0.7 ACRE

ITEM 659, WATER (17 M. GAL)  
3210 X 0.0054 M. GAL / SY = 17 M. GAL

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND

**ITEM 617, COMPACTED AGGREGATE, AS PER PLAN**

ALL AGGREGATE SHALL BE 100% CRUSHED LIMESTONE. ALL QUALITY REQUIREMENTS EXCEPT SHALE SHALL BE WAIVED. OTHER GRADATION REQUIREMENTS SHALL BE AS SPECIFIED EXCEPT THE INDEX SHALL BE WAIVED. IF SO PERMITTED, THE CONTRACTOR MAY USE RECYCLED ASPHALT CONCRETE PAVEMENT (RACP MEETING REQUIREMENTS OF 716.02) IN LIEU OF LIMESTONE.

**REVIEW OF DRAINAGE FACILITIES**

PRIOR TO THE START OF WORK AND AGAIN BEFORE FINAL ACCEPTANCE, PERFORM AN INSPECTION WITH REPRESENTATIVES OF THE DEPARTMENT, CONTRACTOR AND LOCALS OF ALL EXISTING DRAINAGE FACILITIES THAT ARE TO REMAIN IN SERVICE WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES IS DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION ARE MAINTAINED BY THE DEPARTMENT.

CONFIRM ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE-MENTIONED PARTIES ARE MAINTAINED AND LEFT IN A CONDITION COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. THE CONTRACTOR IS RESPONSIBLE TO CORRECT ANY CHANGE IN THE CONDITION RESULTING FROM THEIR OPERATIONS AS DIRECTED AND APPROVED BY THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

**ENDANGERED BAT HABITAT REMOVAL**

THIS PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT, AND NORTHERN LONG-EARED BAT. NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT (ESA). FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS: A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK 3 INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

**ITEM 407, NON-TRACKING TACK COAT**

THE RATE OF APPLICATION OF THE ITEM 407, NON-TRACKING TACK COAT SHALL BE PER CMS TABLE 407.06-1 AND SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. PLAN QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF 0.06 GAL/SY FOR TACK COAT UNDER THE SURFACE COURSE AND 0.06 GAL/SY UNDER THE INTERMEDIATE COURSE. (FOR ESTIMATING PURPOSES ONLY).

MUS-376-5.09

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**NOTES**

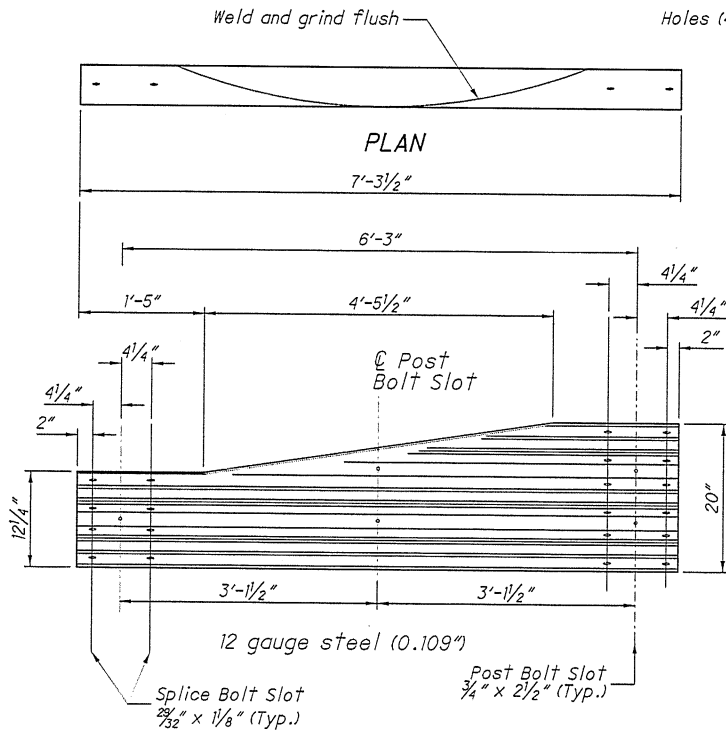
**GENERAL:** Components shown on this drawing are used in a variety of guardrail systems. See individual guardrail drawing for specific applications.

See CMS 606 for guardrail specifications not covered on these drawings.

Refer to AASHTO M 180 for dimensional details of W-Beam and Thrie-Beam rail elements, related buffer and end sections, beam splices, post and splice bolts, nuts, and Type 1 W-Beam to Thrie-Beam Transition sections.

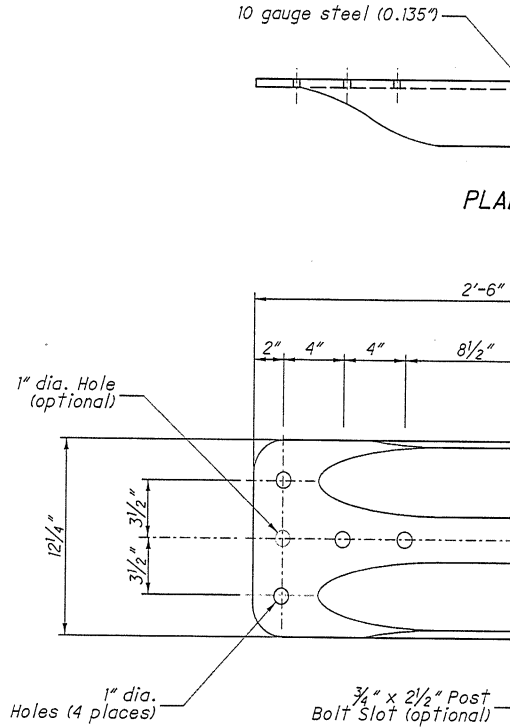
**RAIL ELEMENTS:** W-Beam Rail has an effective length of 12'-6" unless otherwise specified, with 3/4" x 2 1/2" post bolt slots on 6'-3" centers regardless of post spacing. Field punch or drill bolt holes or slots for irregularly spaced posts as specified in CMS 606.04.

**RAIL SPLICES:** Lap splices between two rail elements or between a rail and terminal connector in the direction of traffic. Lap the buffer or flared end sections in the direction of traffic.

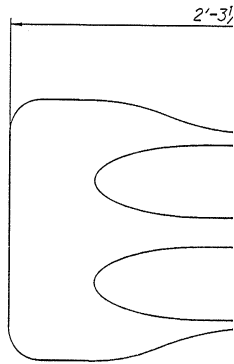
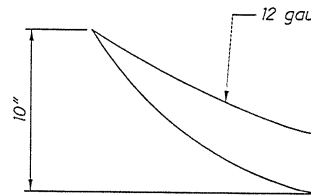


**ELEVATION  
 TYPE 2 TRANSITION SECTION  
 (Asymmetric W to Thrie-Beam)**

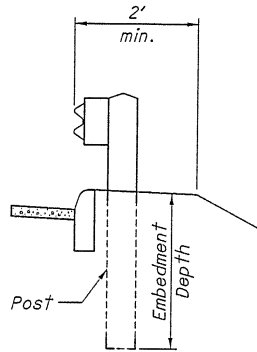
For details of Type 1 Transition Section (Symmetric), refer to AASHTO M 180, Figure 4.



**ELEVATION  
 W-BEAM TERMINAL**

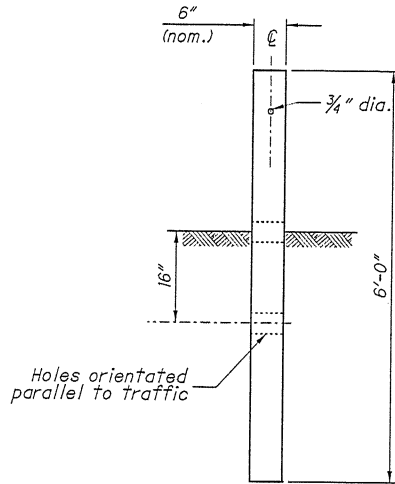


**ELEVATION  
 W-BEAM FLANGE**

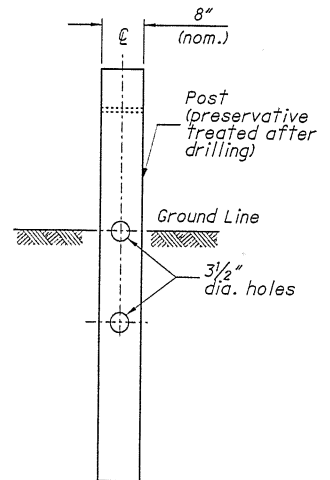


DETAIL A

See POST EMBEDMENT DEPTH Note

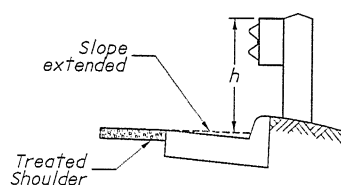
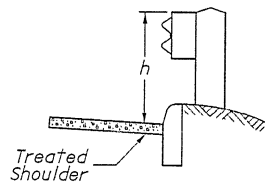
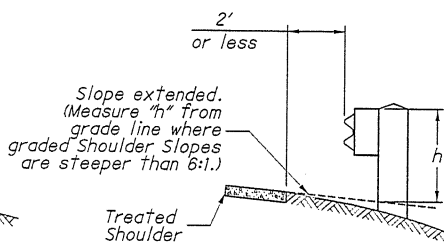
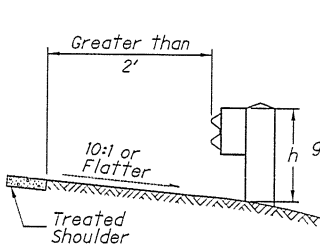
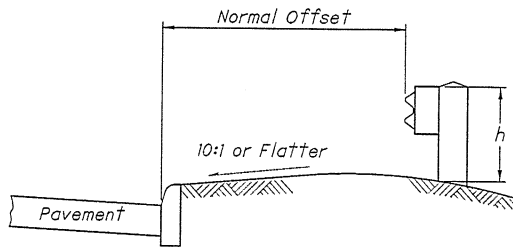


FRONT



SIDE

TYPE 1 BREAKAWAY CRT POST



$h$  = Standard Height (See GUARDRAIL HEIGHT Note)

MEASURING GUARDRAIL HEIGHT

NOTE

**GUARDRAIL HEIGHT:** For initial installa: within  $\pm 1"$  of the standard height,  $h$ , of W-Beam rail. (See MEASURING GUARDRAIL HEIGHT Note) When subsequent projects, such as height of existing guardrail, the finish height of existing guardrail, the finish height will be  $\pm 2.5"$  of the standard height.

**POST EMBEDMENT DEPTH:** Standard emb: than 2' of graded shoulder width (10:1: from the face of the guardrail (see: that a minimum of 5'-5" embedment dep: the longer posts will be made at the GUARDRAIL POST, 9', Each.

**SPECIAL POST MOUNTINGS:** Install post: or structure as shown in the FOOTING: the details shown on SCD GR-2.2.

Install posts located over a footing v: with a footing anchor as detailed here: SECTION B-B of SCD GR-2.2, may be use: method.) Where the cover is between: may be omitted and the post encased

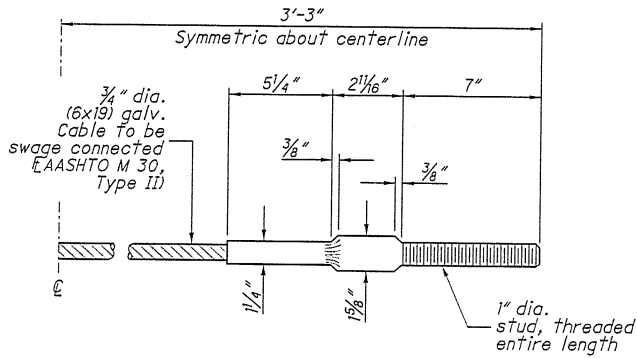
Do not drive posts located over a cul: of cover; instead set in drilled or dug: embedment depth is less than 3'-5", or 4" concrete.

All costs associated with special posi: unit price bid of Item 606 Guardrail of

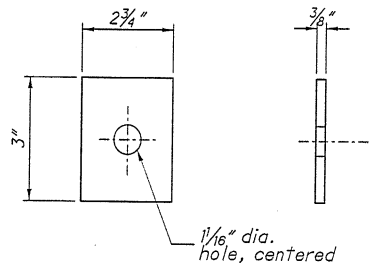
**ANCHORS:** Holes and grouting shall con: cement or non-shrink, nonmetallic grou:

Expansion shield anchors as specified: except where concrete deterioration i: the Engineer. Where self-drilling anch: with the expansion shield (not by a dri: flush with the concrete surface.

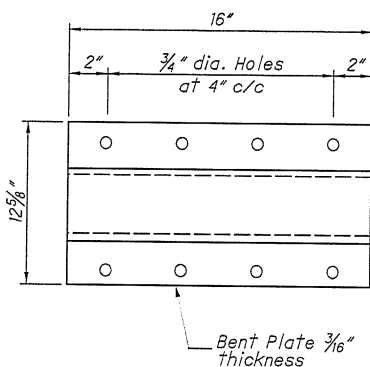
**PROTECTIVE COATING:** In lieu of the co: expansion shields, anchors and concret: embedded in concrete in accordance w: steel. Any bolts screwed into these c: (See sheet 3 for Concrete Insert Ancho:



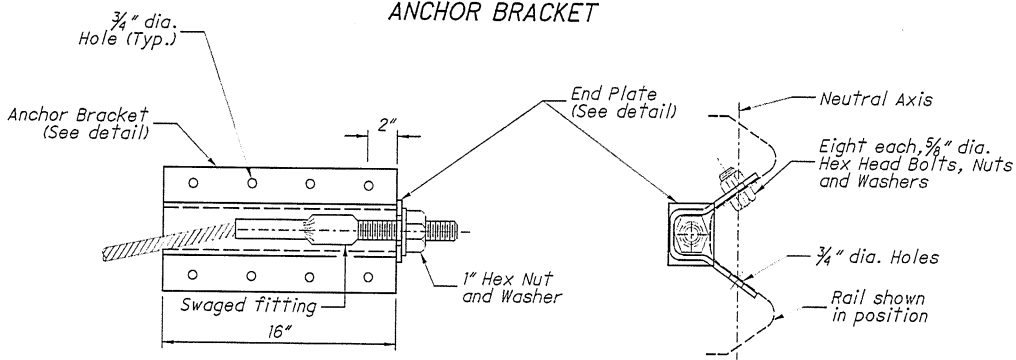
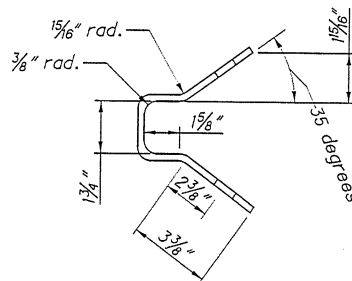
STANDARD SWAGED FITTING AND STUD  
 CABLE ANCHOR



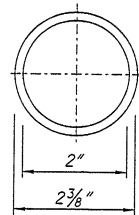
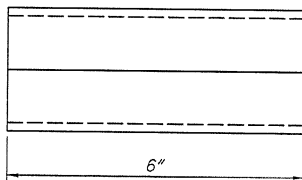
END PLATE



ANCHOR BRACKET



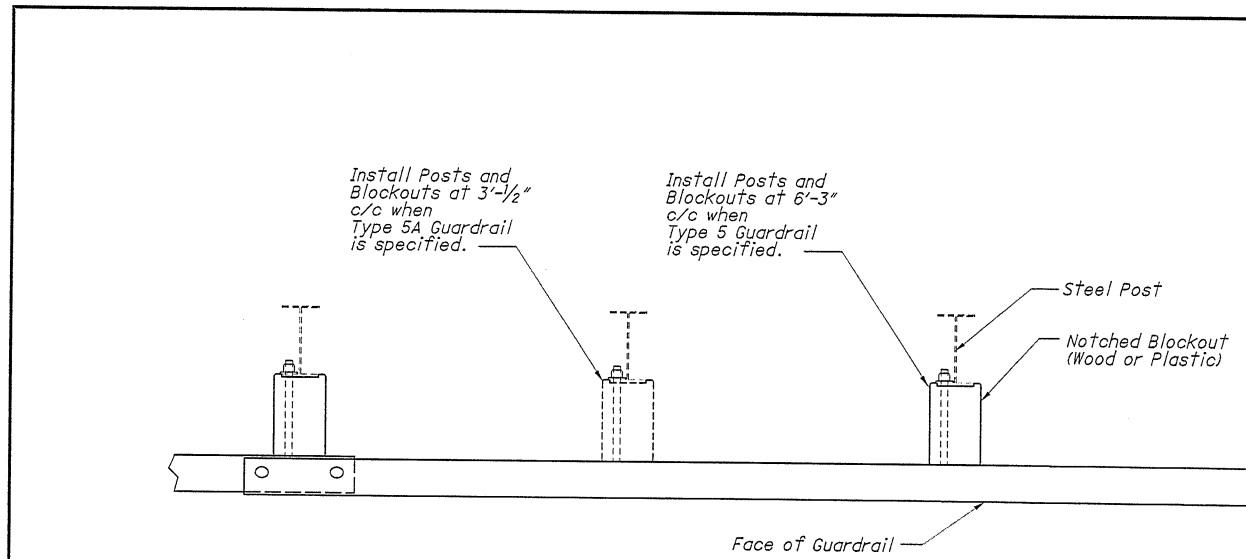
ANCHOR BRACKET ASSEMBLY DETAILS



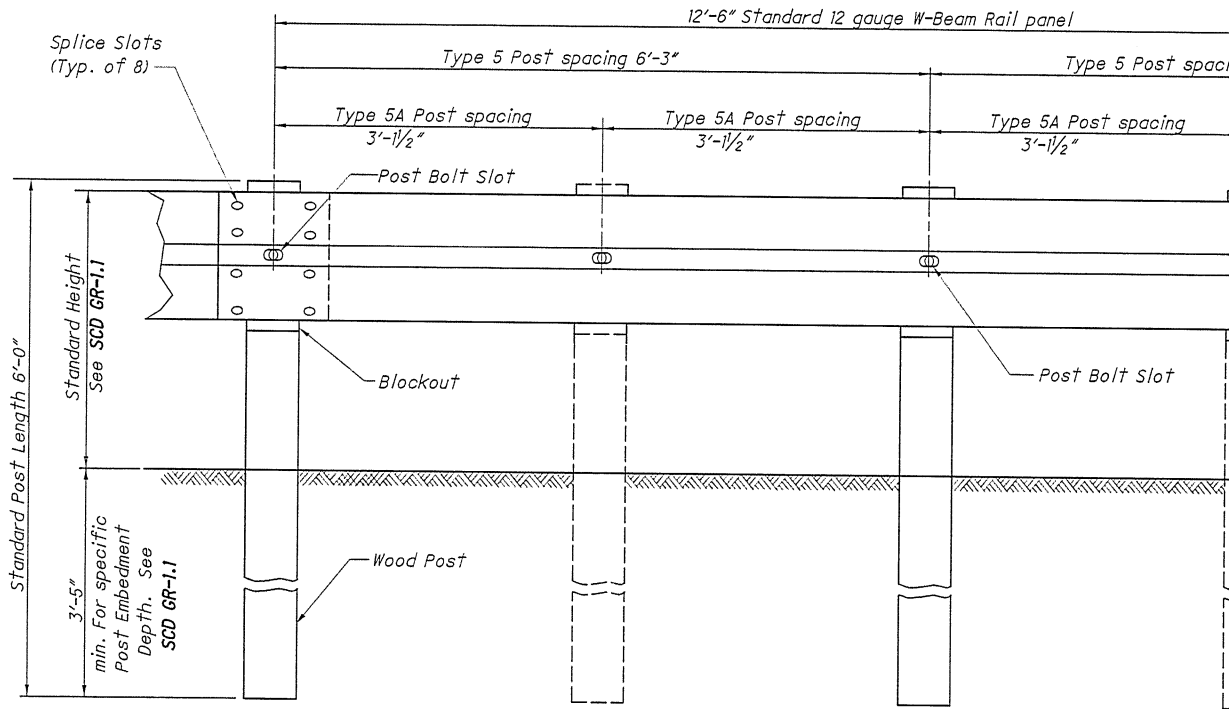
POST SLEEVE

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PLAN VIEW  
(Steel Posts shown)

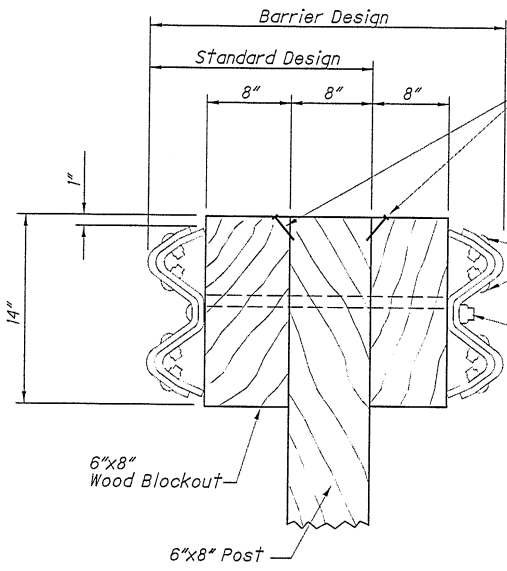


ELEVATION  
(Wood Posts shown)

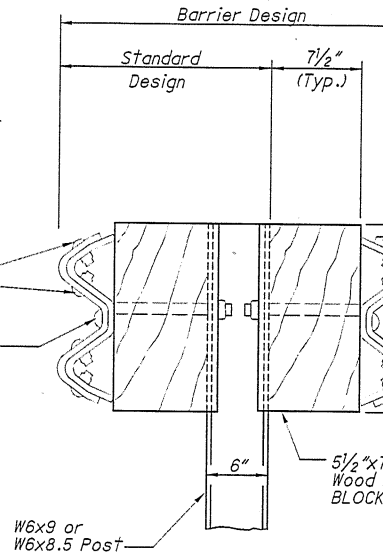
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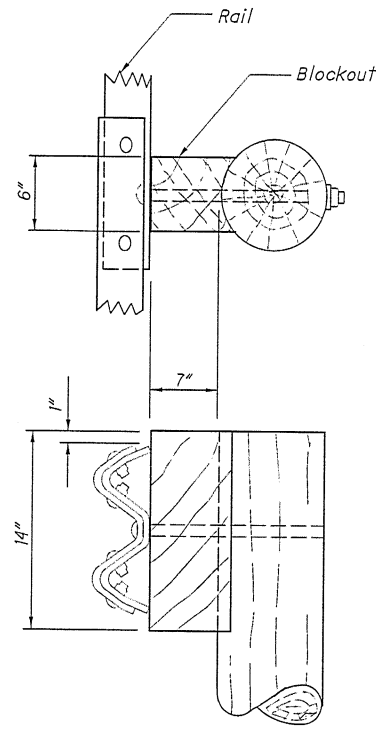


SQUARE WOOD POST

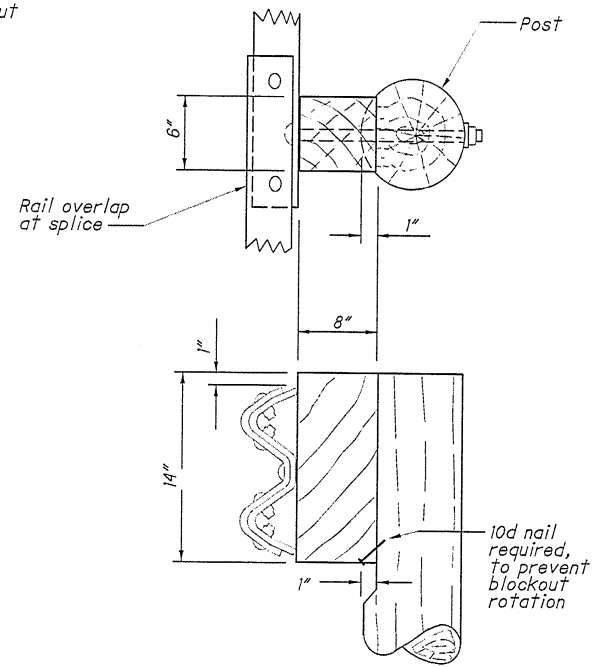


STEEL POST

See POSTS Note, Sheet 1



Method 1 Routed Blockout



Method 2 Notched Post

Alternate methods of placing the Blockouts on round Posts may be submitted for consideration and approved by the Engineer.

ROUND WOOD POSTS

Single Sided runs only (Standard Design)

To enc post

**CONSTRUCTION NOTIFICATION**

THE CONTRACTOR WILL ADVISE THE PROJECT ENGINEER A MINIMUM OF TWENTY-ONE (21) DAYS PRIOR TO THE FOLLOWING: THE START OF CONSTRUCTION ACTIVITIES, LANE RESTRICTIONS, LANE CLOSURES, AND/OR ROAD CLOSURES. THE PROJECT ENGINEER WILL FORWARD THIS INFORMATION TO THE FOLLOWING:

DISTRICT PUBLIC INFORMATION OFFICER (PIO)  
 BY FAX: (614) 887-4510 OR  
 BY EMAIL: D05.PIO@DOT.OHIO.GOV

DISTRICT PERMIT SECTION  
 BY FAX: (614) 887-4525 OR  
 BY EMAIL: BRIAN.BOSCH@DOT.OHIO.GOV

CENTRAL OFFICE SPECIAL HAUL PERMITS SECTION  
 BY FAX: (614) 728-4099 OR  
 BY EMAIL: HAULING.PERMIT@DOT.OHIO.GOV

THE PIO WILL, IN TURN, NOTIFY THE PUBLIC, THE LOCAL EMERGENCY SERVICES, AFFECTED SCHOOLS AND BUSINESSES, AND ANY OTHER IMPACTED LOCAL PUBLIC AGENCY OF ANY OF THE ABOVE MENTIONED ITEMS VIA MEDIA SOURCES.

**ITEM 614, MAINTAINING TRAFFIC**

TRAFFIC SHALL BE MAINTAINED AS PER THE DETAIL SHEETS AND SPECIFICATIONS AND AS OUTLINED IN THE CONSTRUCTION AND MAINTENANCE OPERATIONS SECTIONS OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS LATEST REVISION. IN ADDITION, THE FOLLOWING REQUIREMENTS SHALL APPLY.

BEFORE WORK BEGINS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER THE NAMES AND TELEPHONE NUMBERS OF A PERSON OR PERSONS WHO CAN BE CONTACTED 24 HOURS A DAY BY THE OHIO DEPARTMENT OF TRANSPORTATION AND ALL INTERESTED POLICE AGENCIES. THIS PERSON OR PERSONS SHALL BE RESPONSIBLE FOR REPLACING NECESSARY TRAFFIC CONTROL DEVICES IMMEDIATELY, AS PER 614.03.

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION AND OPERATION OF ALL TEMPORARY TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS SHALL BE PROVIDED WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

THIS PROJECT WILL BE CONSIDERED OPEN TO TRAFFIC ONCE ALL EXCAVATION, AGGREGATE SHOULDER, GRADED DITCH, INSTALLATION OF PROPOSED CULVERT, AND PAVEMENT TO INTERMEDIATE COURSE HAS BEEN COMPLETED.

THE PLANS INDICATE THE MINIMUM SIGNAGE WHICH MUST BE INSTALLED AND/OR MAINTAINED DURING CONSTRUCTION.

EXISTING SIGNS OR CONTRACTOR SUPPLIED SIGNS SHALL BE USED TO MAINTAIN TRAFFIC DURING CONSTRUCTION.

THE ENGINEER SHALL RECORD INSTALLATION AND REMOVAL OF PROPOSED SIGNS, COVERED OR REMOVED, AND UNCOVERED OR REERECTED SIGNS IN THE PROJECT DIARY.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH ITEM 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIALS DESCRIBED ABOVE SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLANS.

THE FOLLOWING QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY:

**ITEM 614, MAINTAINING TRAFFIC (LS)**

**NOTIFICATION OF TRAFFIC RESTRICTIONS**

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

**NOTIFICATION OF TRAFFIC RESTRICTIONS TIME TABLE**

<u>Item</u>	<u>Duration of Closure</u>	<u>Sign Displayed to Public</u>
Ramp	>= 2 weeks	14 calendar days prior to closure
& Road	> 12 hours & < 2 weeks	7 calendar days prior to closure
Closures	< 12 hours	2 business days prior to closure
Lane	>= 2 weeks	14 calendar days prior to closure
Closures & Restrictions	< 2 weeks	5 business days prior to closure
Start of Construction & Traffic Pattern Changes	N/A	14 calendar days prior to implementation

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

**ITEM 614, MAINTAINING TRAFFIC (NOTICE OF CLOSURE SIGN)**

NOTICE OF CLOSURE SIGNS (W20- H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. [AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLATSHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.]

THE SIGNS SHALL BE ERECTED ON THE RIGHT- HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

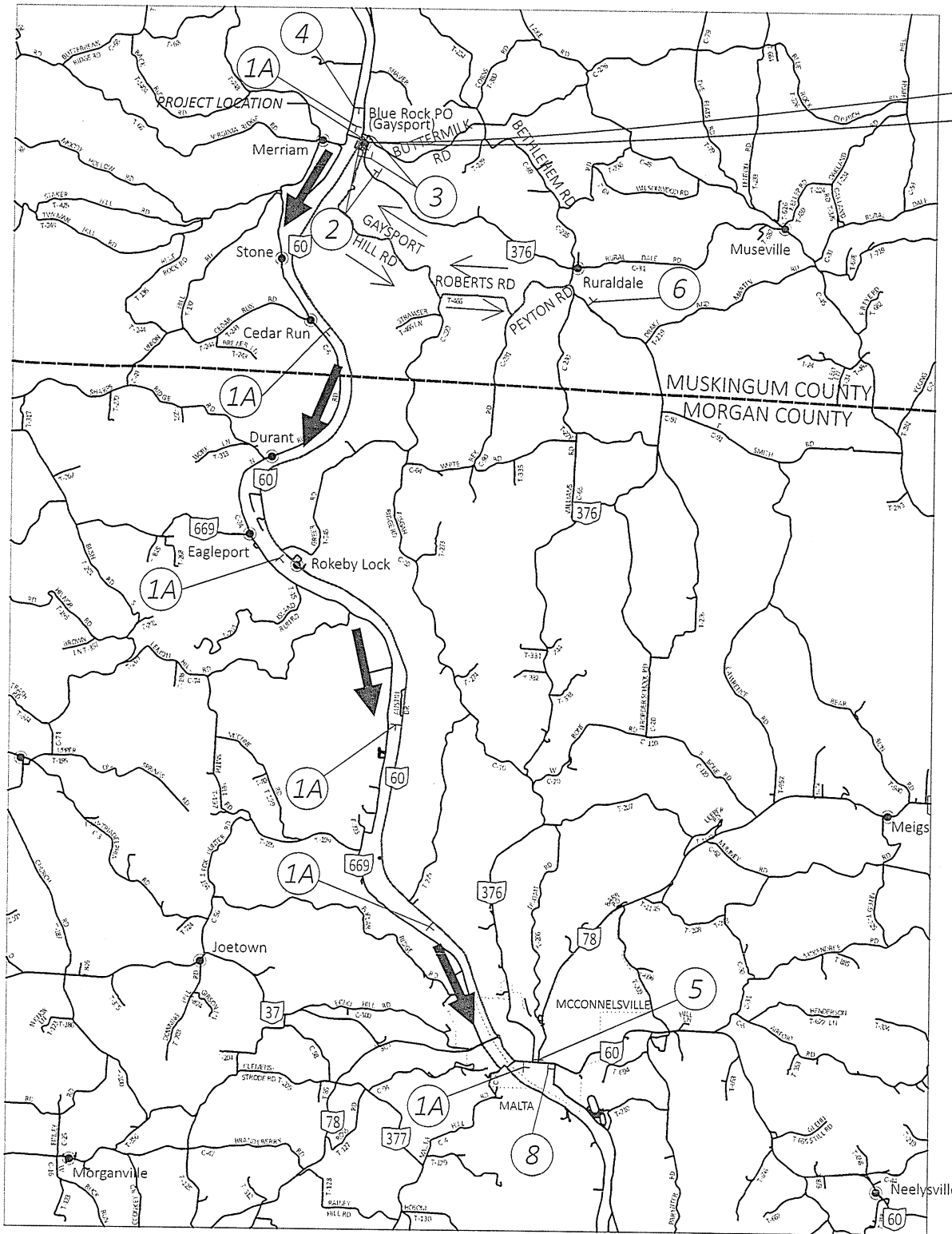
**NOTICE OF CLOSURE SIGN TIME TABLE**

<u>Item</u>	<u>Duration of Closure</u>	<u>Sign Displayed to Public</u>
Ramp	>= 2 weeks	14 calendar days prior to closure
& Road	> 12 hours & < 2 weeks	7 calendar days prior to closure
Closures	< 12 hours	2 business days prior to closure

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

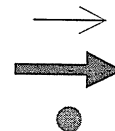
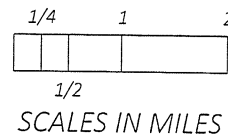
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**STATE DETOUR ROUTE**  
 NB S.R. 376: NO DETOUR  
 (LOCAL TRAFFIC ONLY)  
 SB S.R. 376: S.R. 60

**LOCAL DETOUR ROUTE**  
 EB: GAYSPORT HILL RD TO  
 ROBERTS RD TO PEYTON RD  
 WB: PEYTON RD TO GAYSPORT  
 HILL RD TO ROBERTS RD



LEGE,  
 LOCAL  
 STATE  
 PROJE

FOR MAINTENANCE OF TRAFFIC NOTES, SEE SHEET 11

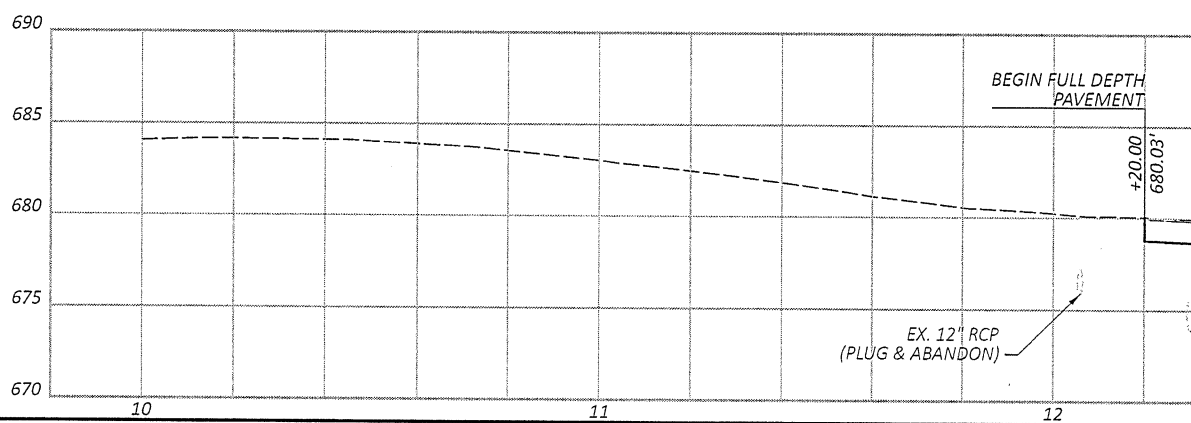
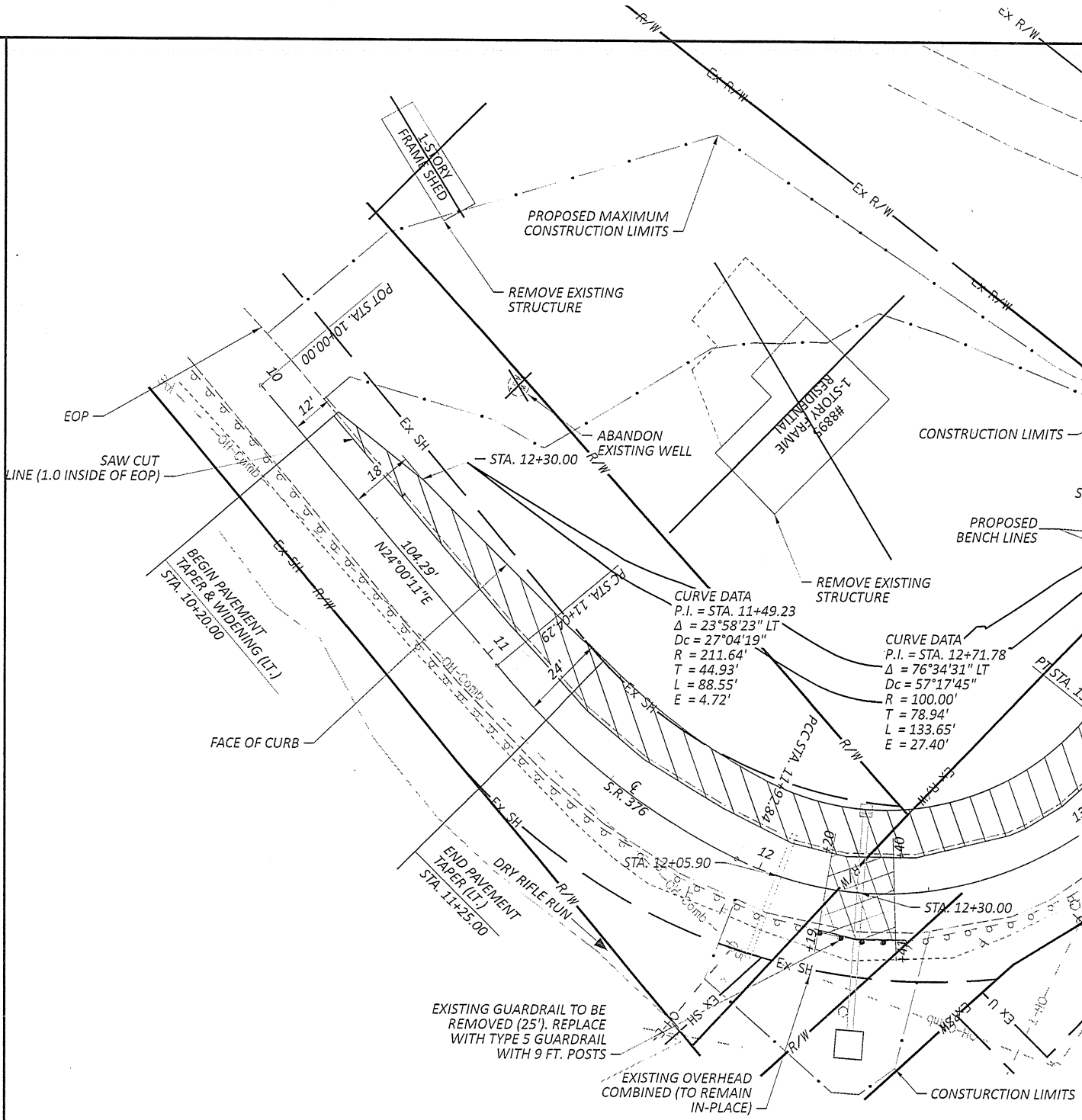




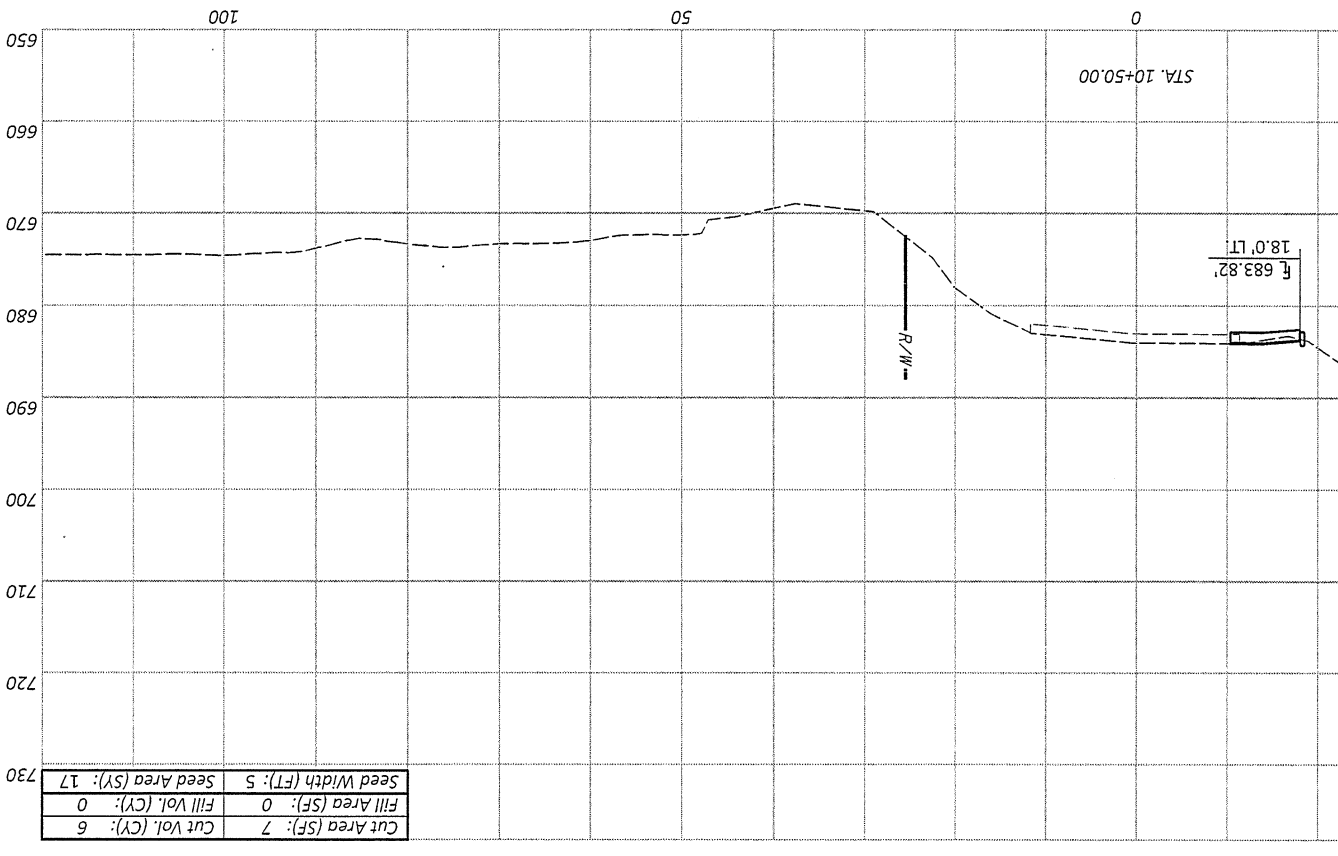
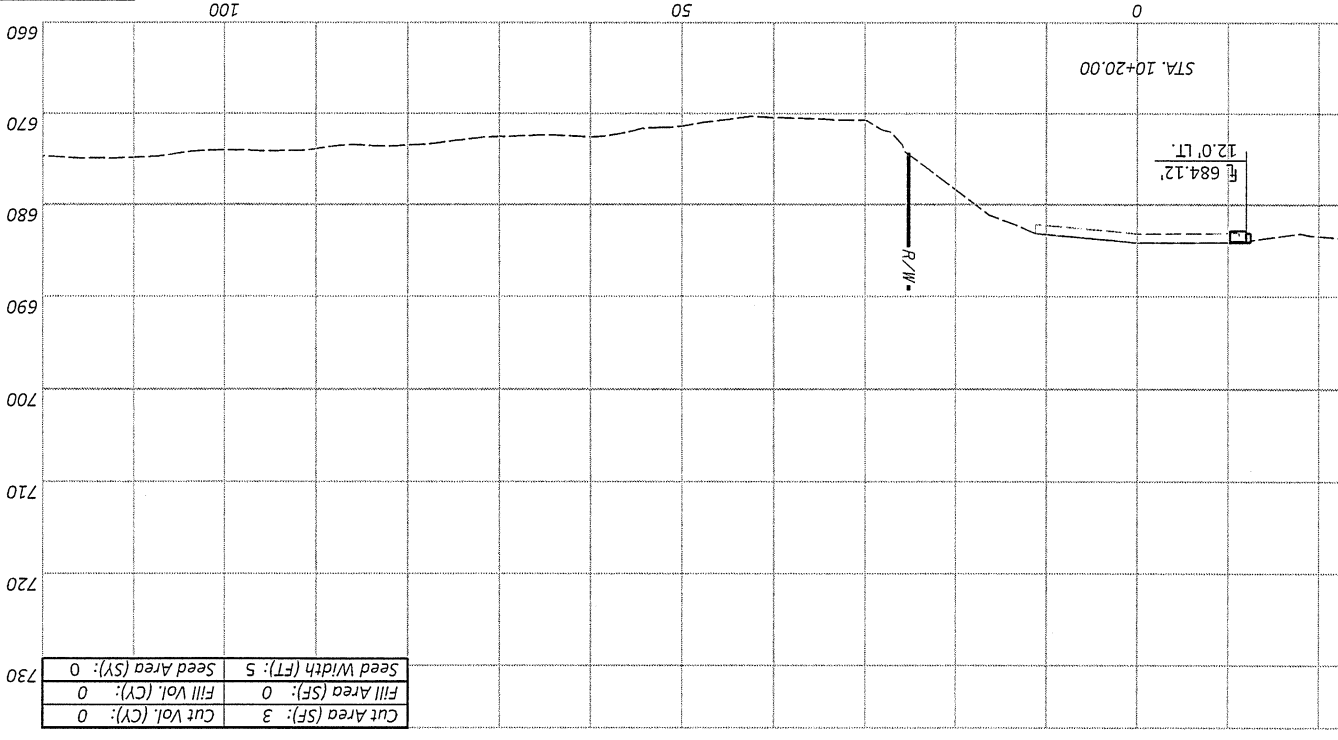


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PROJECT ID	11S989
SHEET TOTAL	P.16 28
Sheet Totals	Seeding 17 Cut 6 Fill 0



CROSS SECTIONS - S.R. 376  
STA. 10+20 - STA. 10+50



DESIGN AGENCY

DESIGNER

GPM

REVIEWER

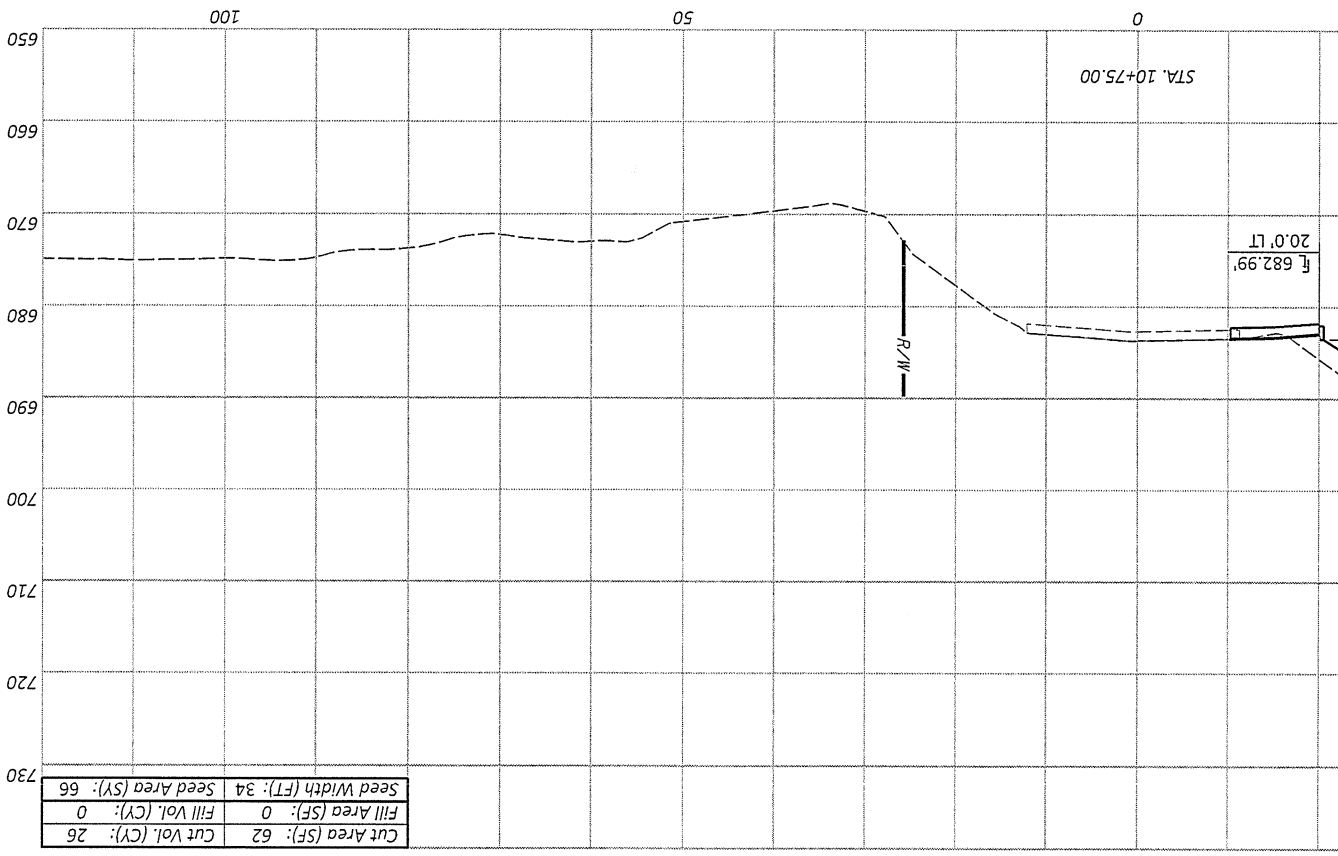
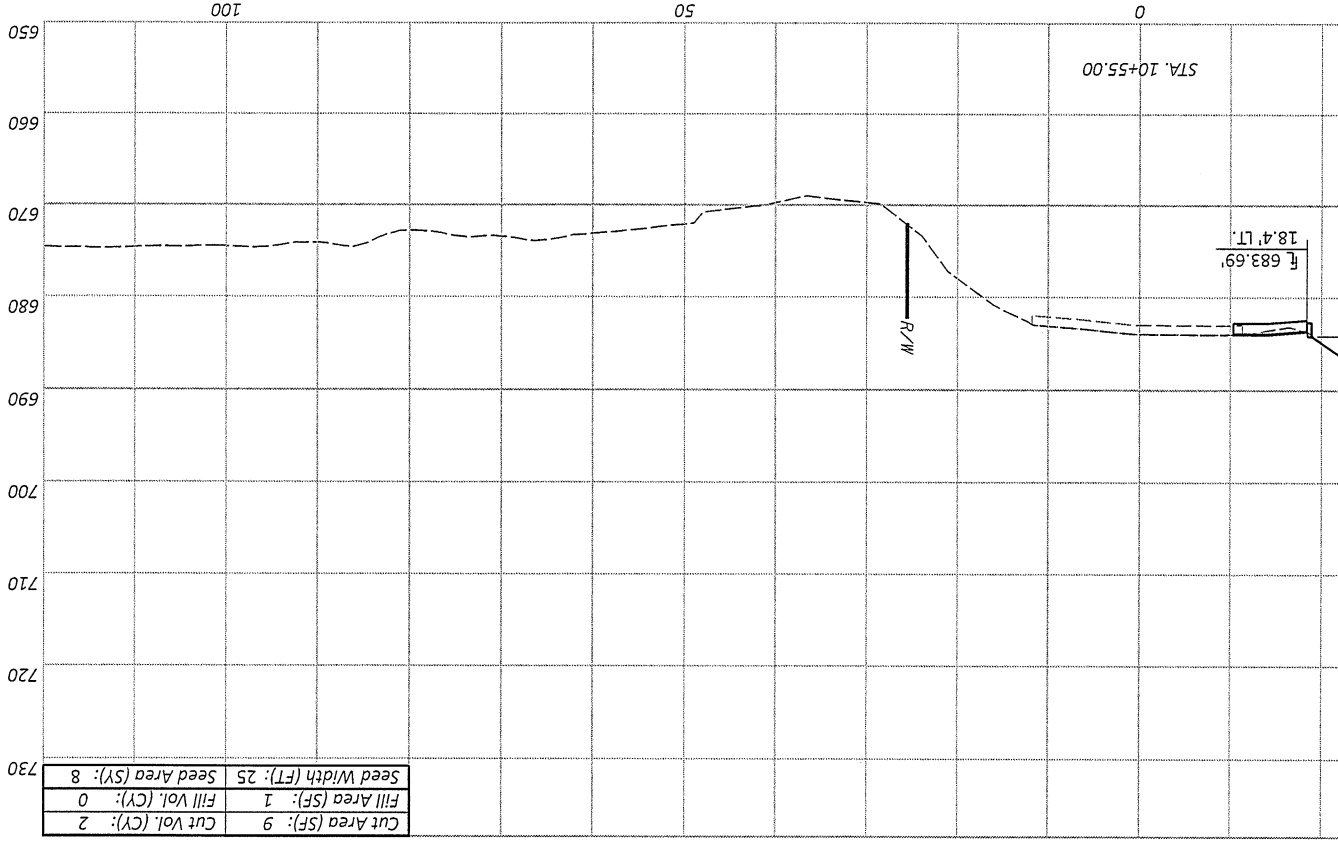
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Sheet Totals	

DESIGNER  
GPM

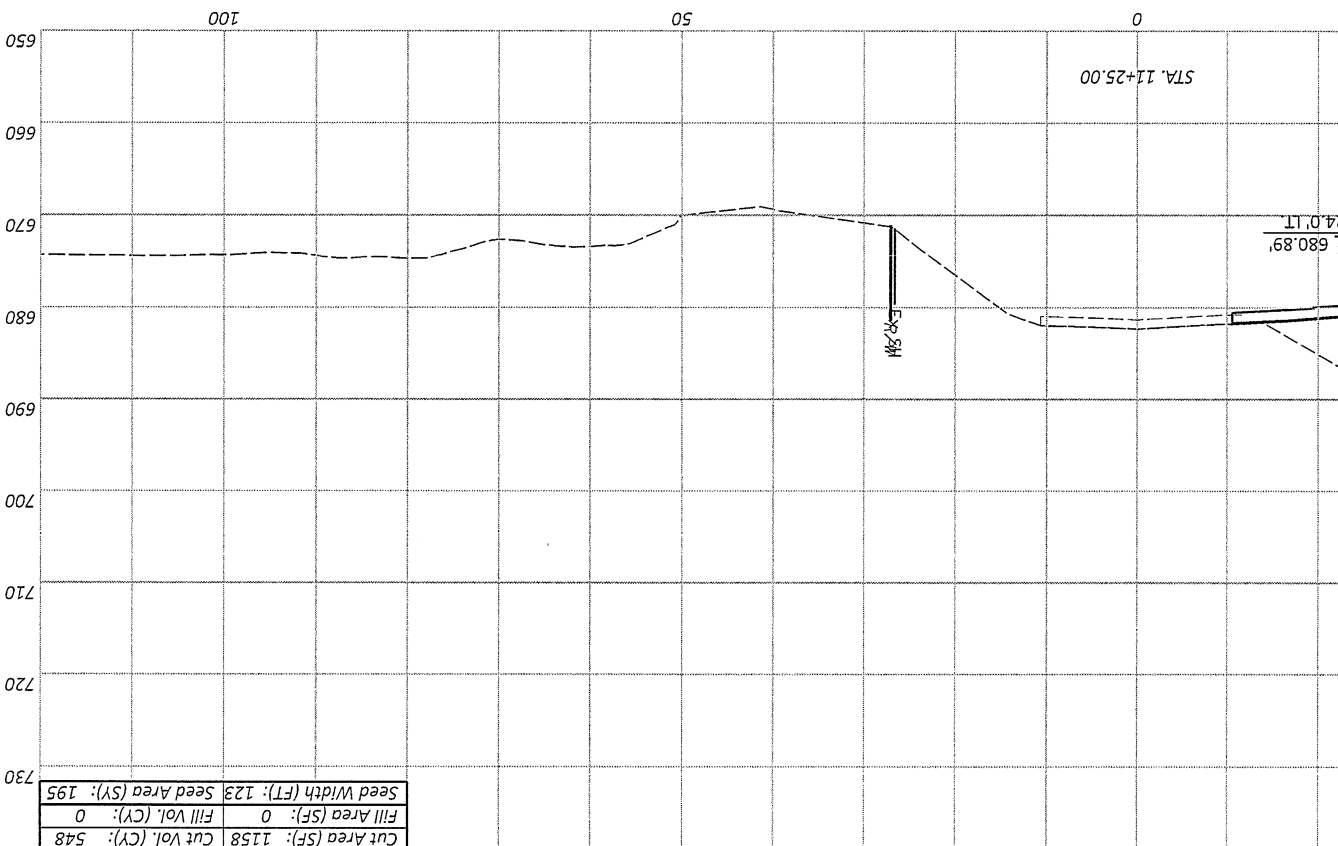
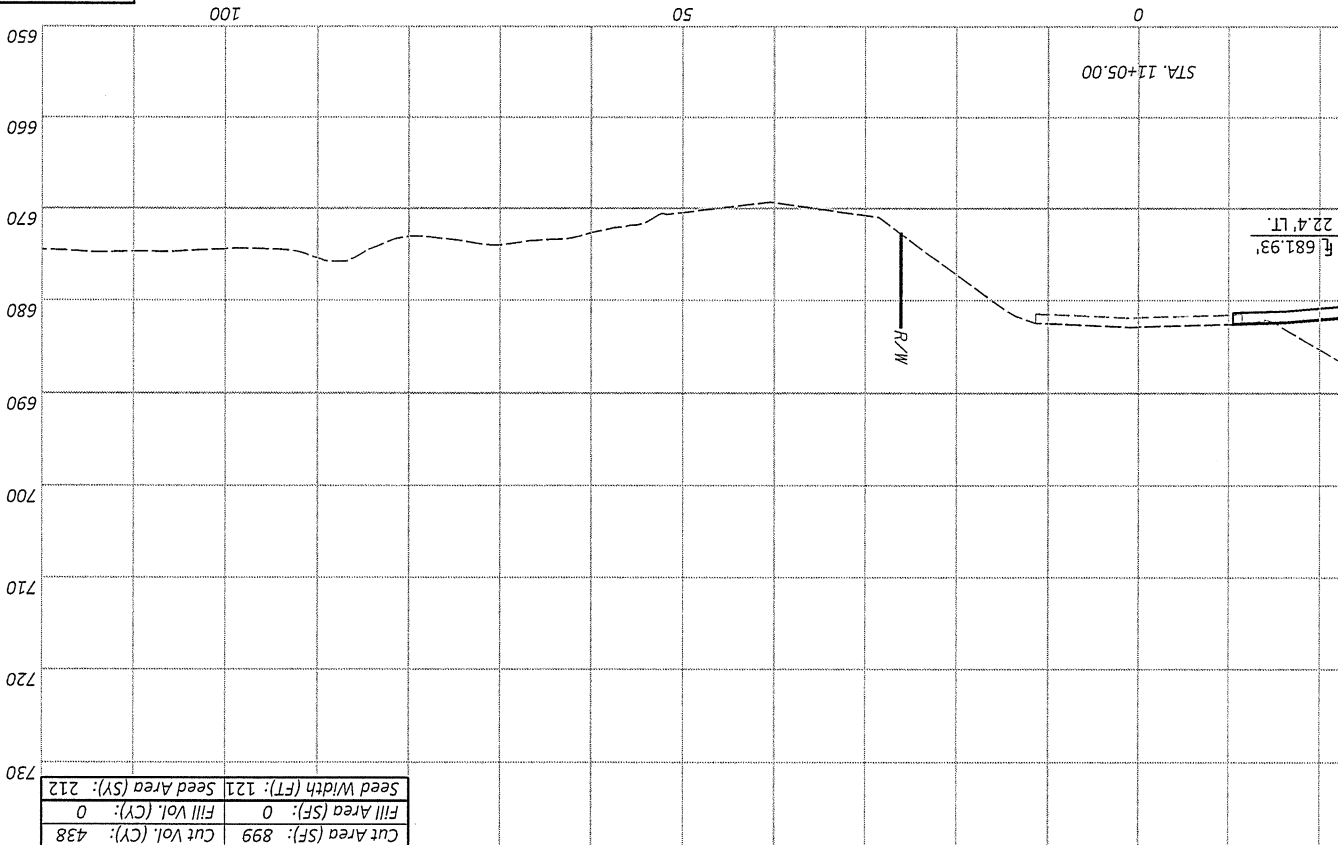
REVIEWER

DESIGN AGENCY



CROSS SECTIONS - S.R. 376  
STA. 10+55 - STA. 10+75

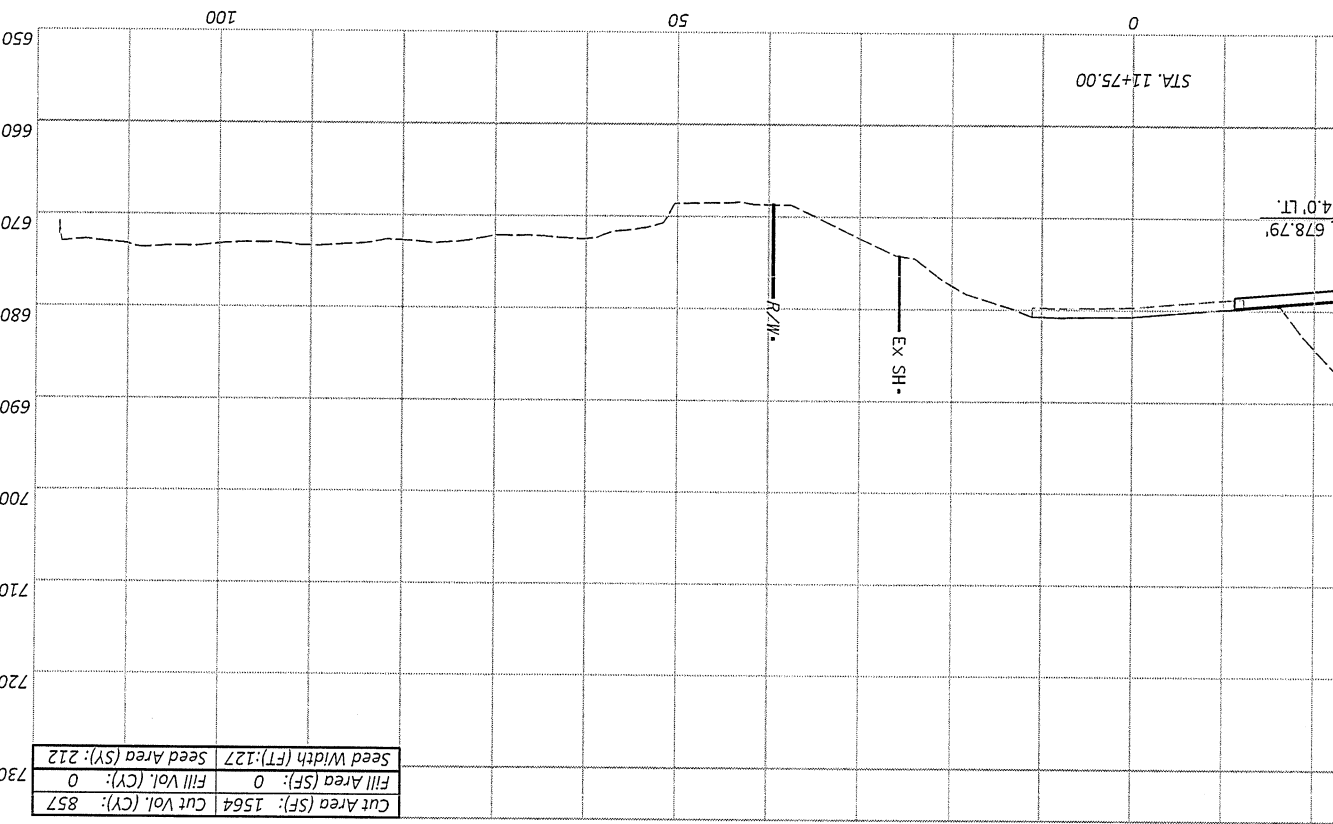
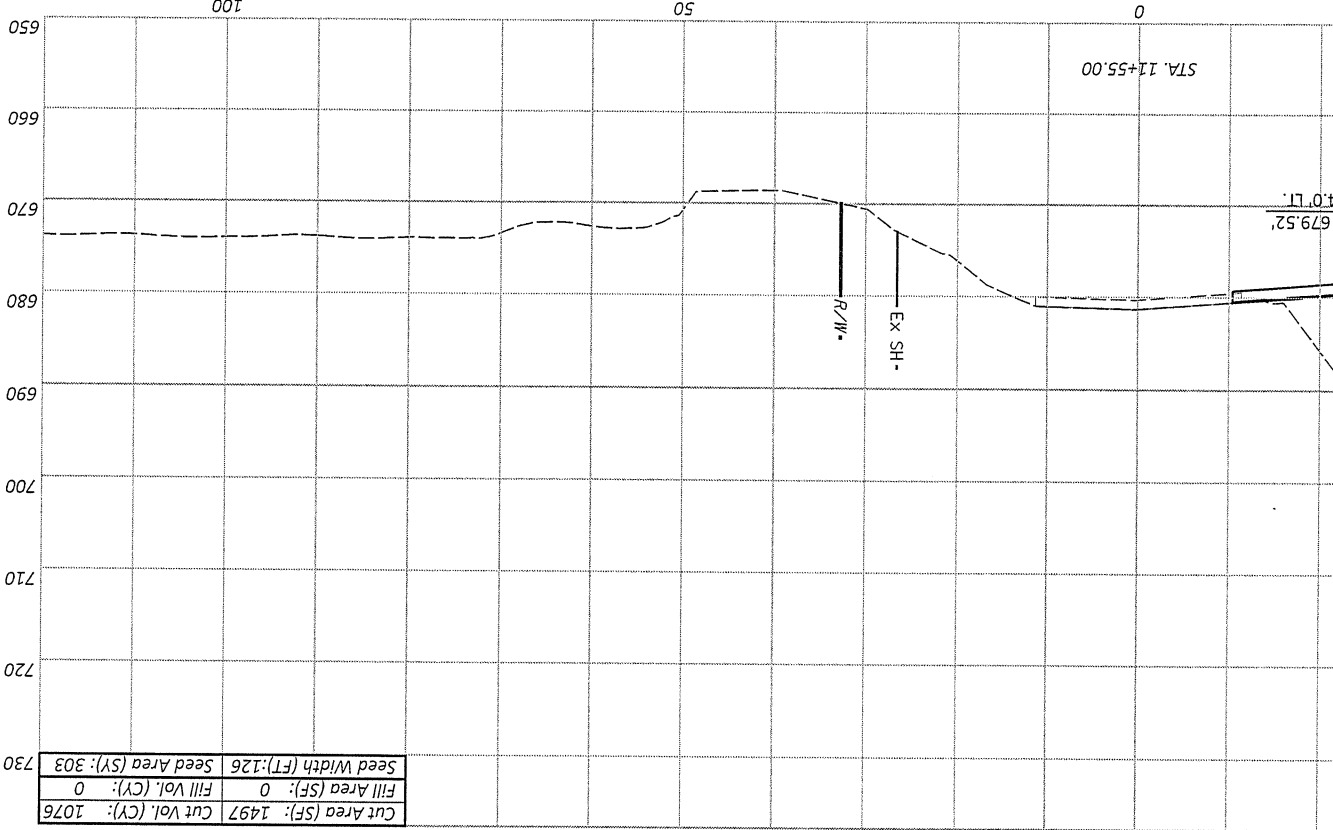
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DESIGNER	GPM			
REVIEWER				
SHEET TOTAL	P.18	28		



CROSS SECTIONS - S.R. 376  
 STA. 11+05 - STA. 11+25



PROJECT ID	115989
SHEET TOTAL	P.19 28
Seeding	515
Cut	1933
Fill	0
Sheet Totals	



CROSS SECTIONS - S.R. 376  
 STA. 11+55 - STA. 11+75



DESIGN AGENCY

DESIGNER  
GPM

REVIEWER

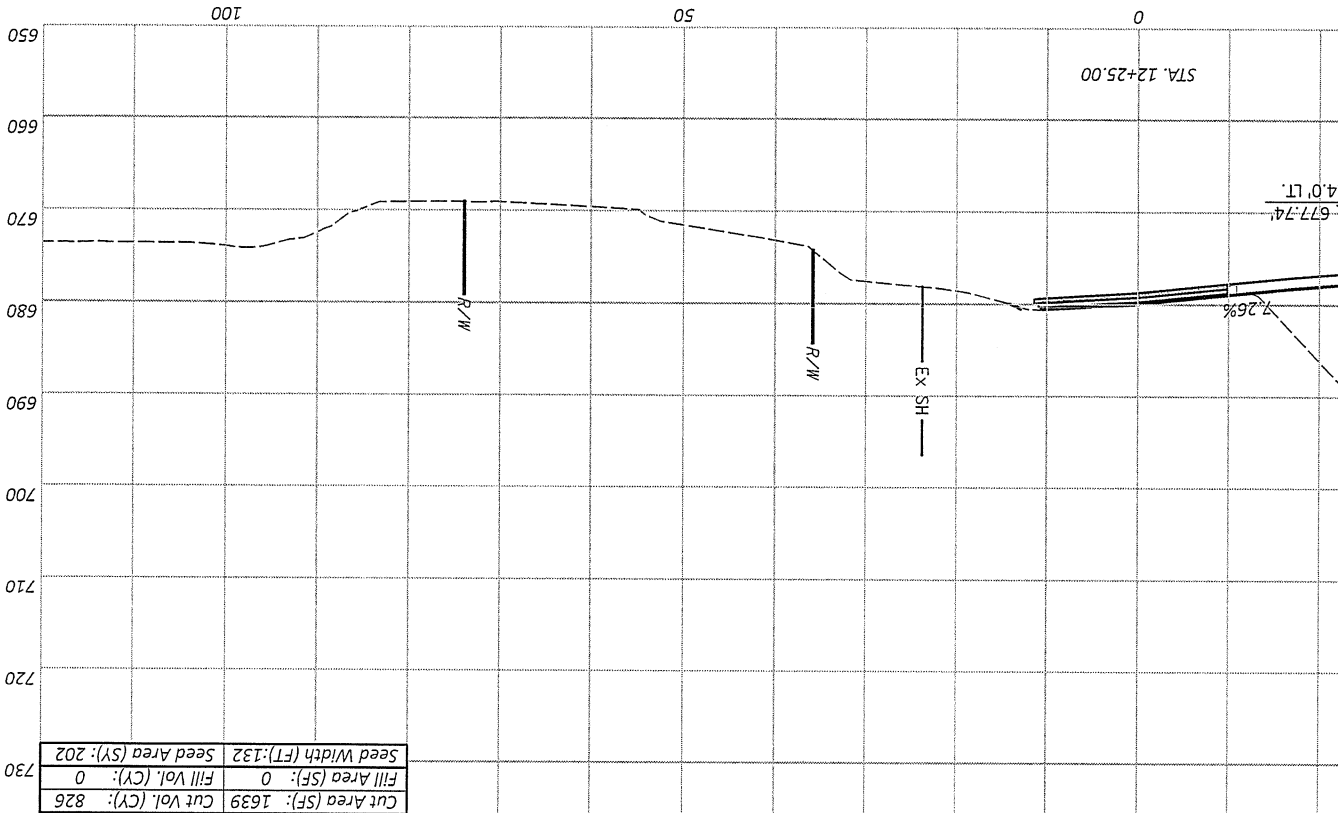
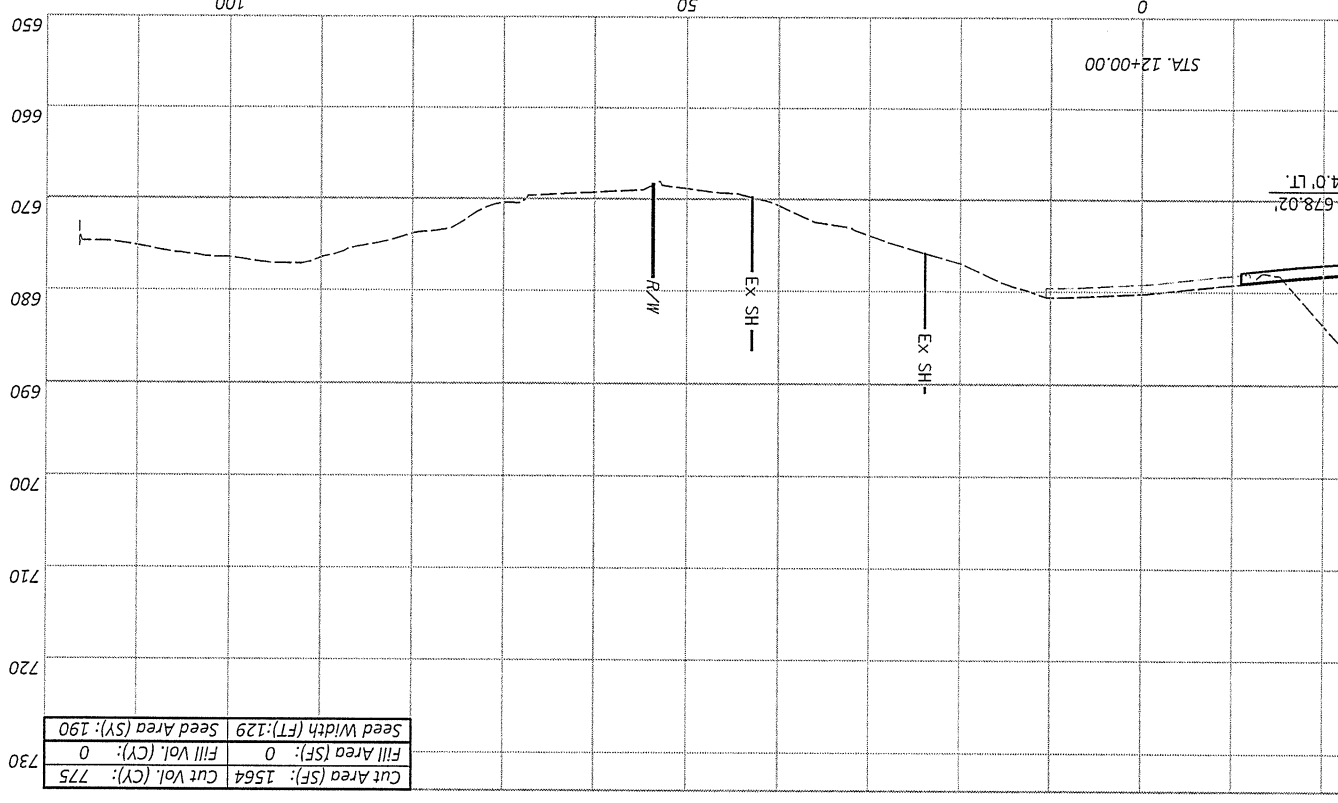
PROJECT ID

Seeding	392	1601	0
Cut	1601	0	0
Fill	0	0	0
Sheet Totals			
PROJECT ID	115989		
SHEET TOTAL	P.20 28		

DESIGNER  
GPM

REVIEWER

DESIGN AGENCY



CROSS SECTIONS - S.R. 376  
STA. 12+00 - STA. 12+25



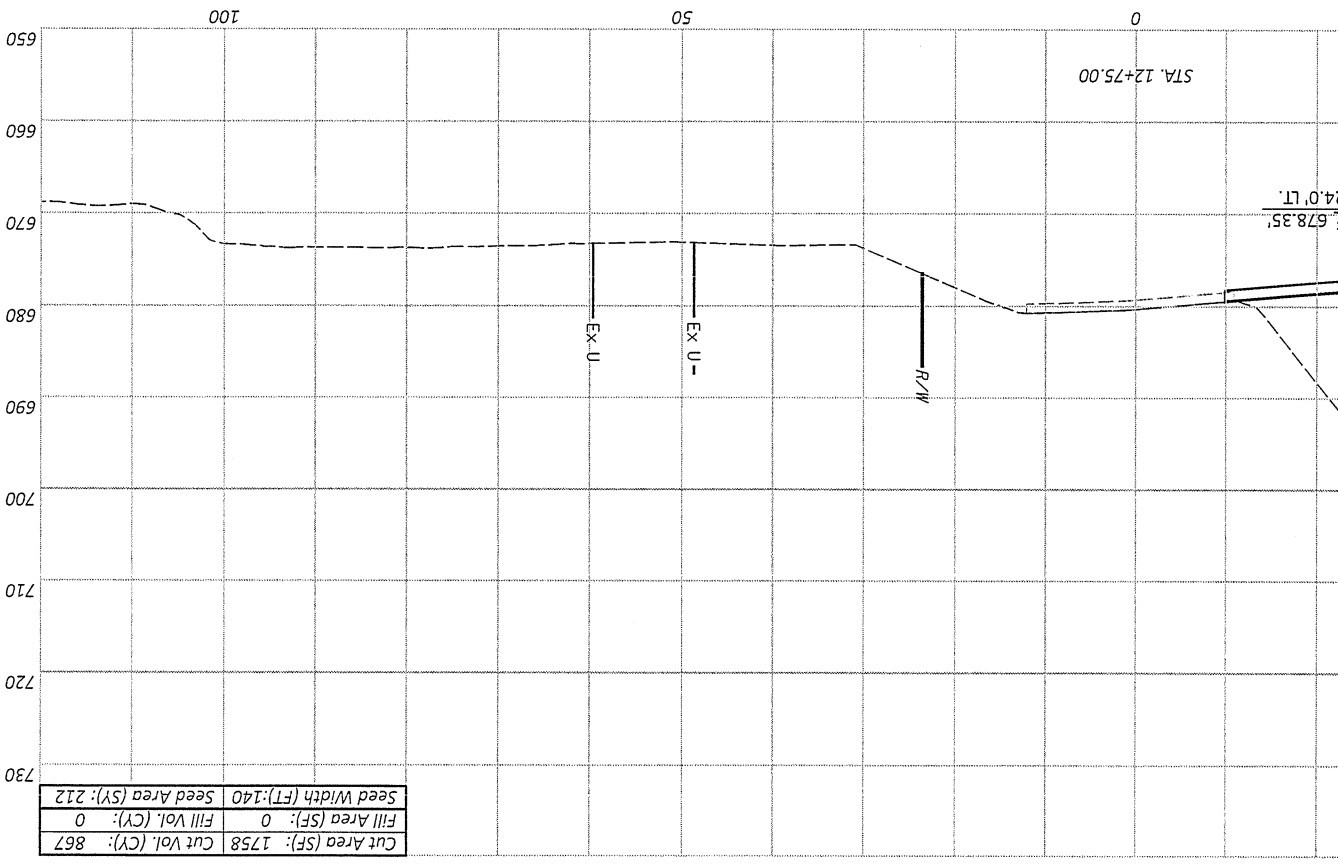
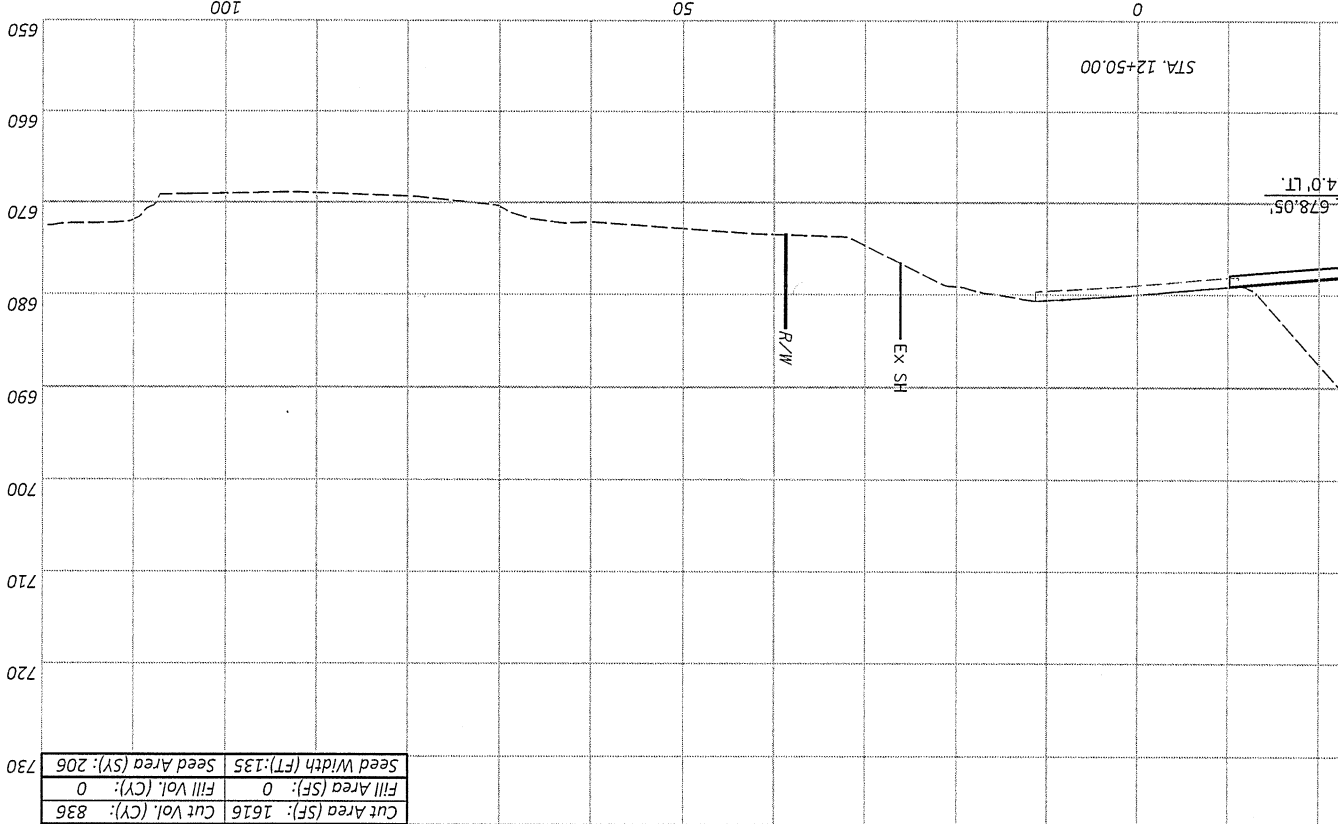
PROJECT ID	115989
SHEET TOTAL	P.21   28
Sheet Totals	Seeding Cut Fill
	418   1703   0

DESIGNER  
GPM

REVIEWER



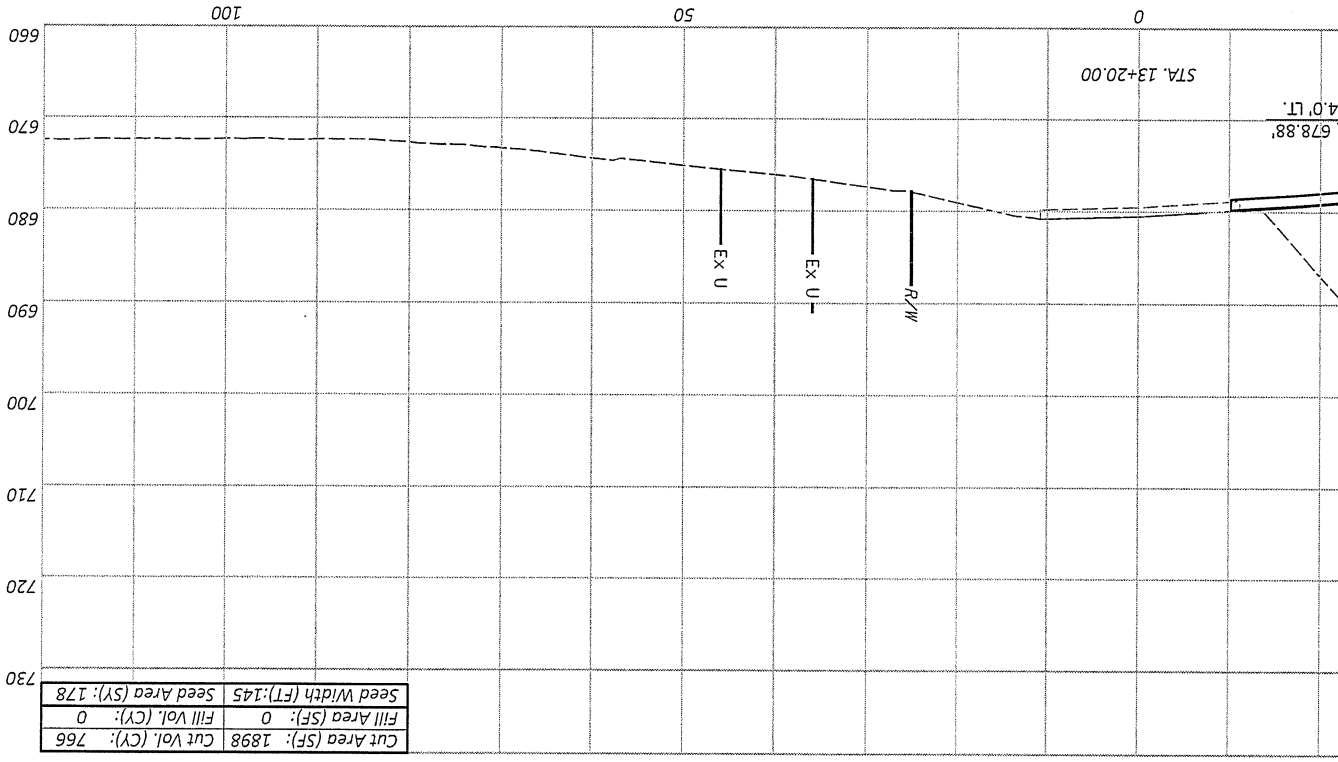
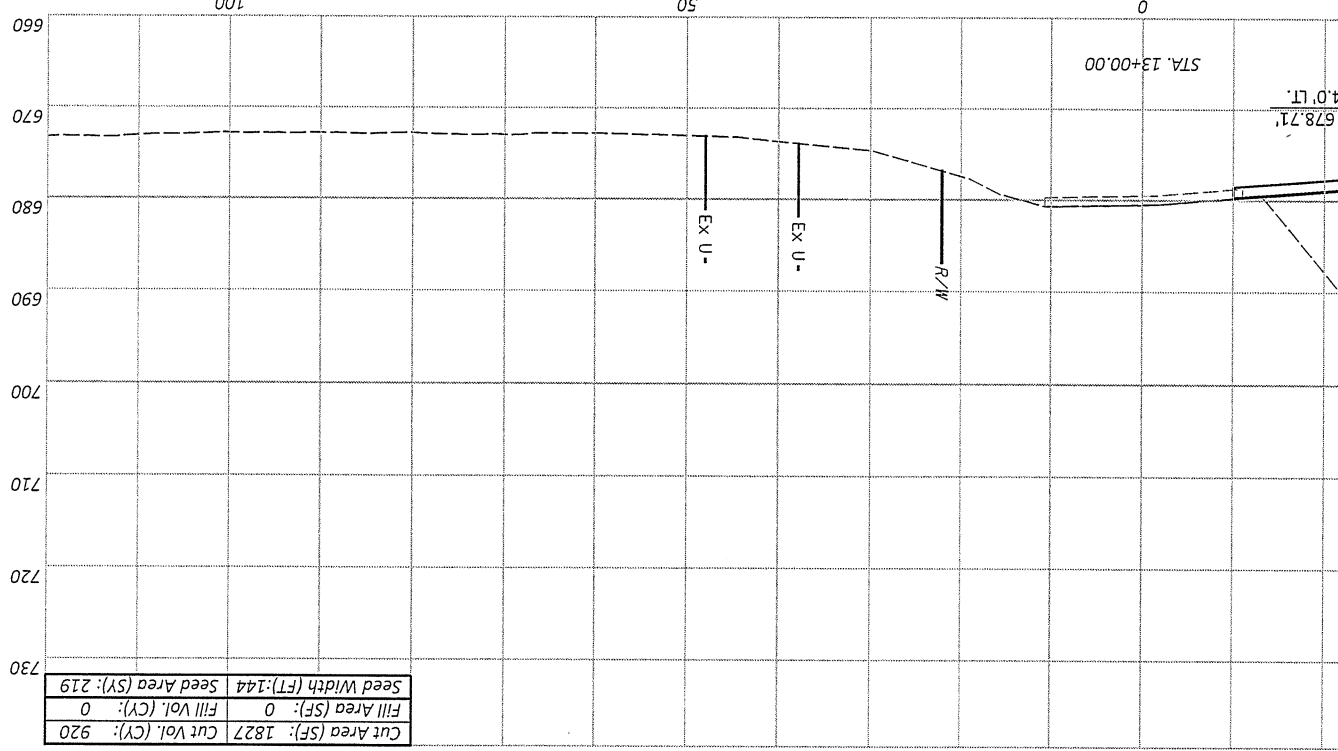
DESIGN AGENCY



CROSS SECTIONS - S.R. 376  
STA. 12+50 - STA. 12+75

DESIGNER	GPM
REVIEWER	
PROJECT ID	115989
SHEET TOTAL	P.22 28

Sheet Totals	Seeding	Cut	Fill
	397	1686	0



CROSS SECTIONS - S.R. 376  
 STA. 13+00 - STA. 13+20



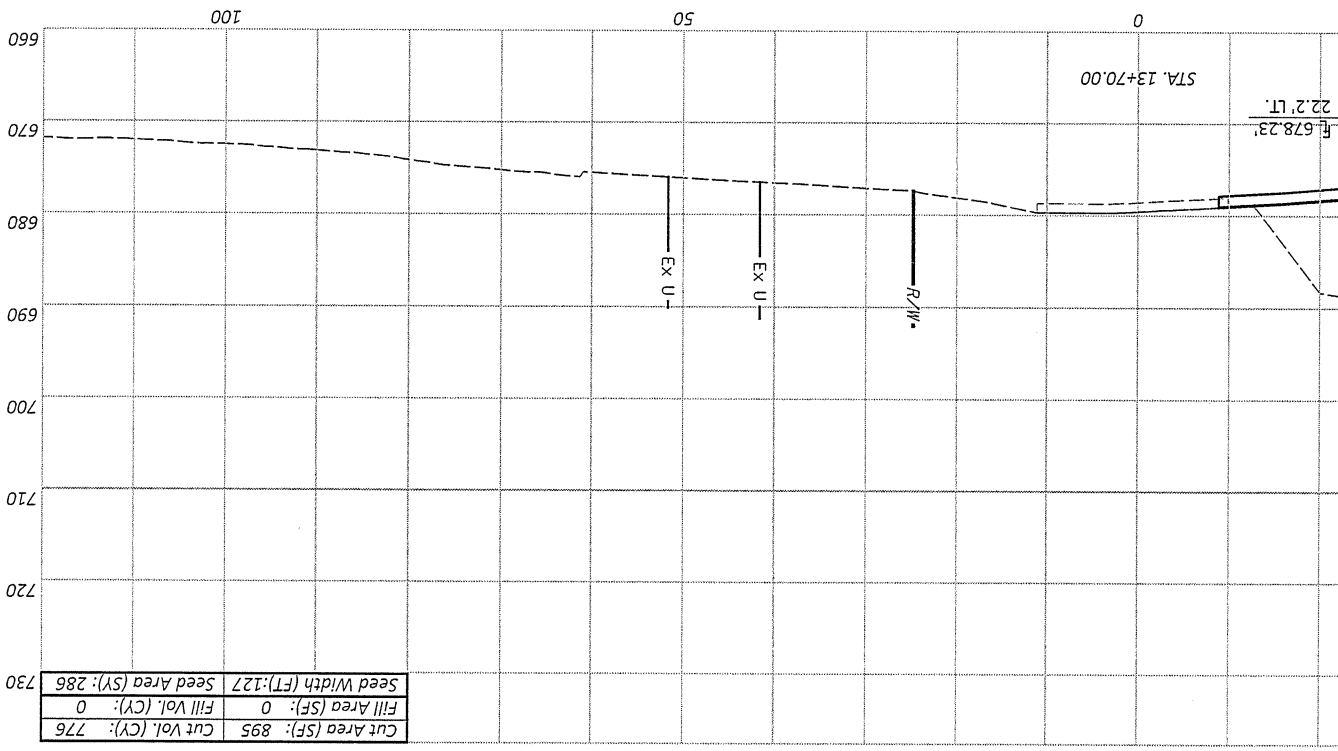
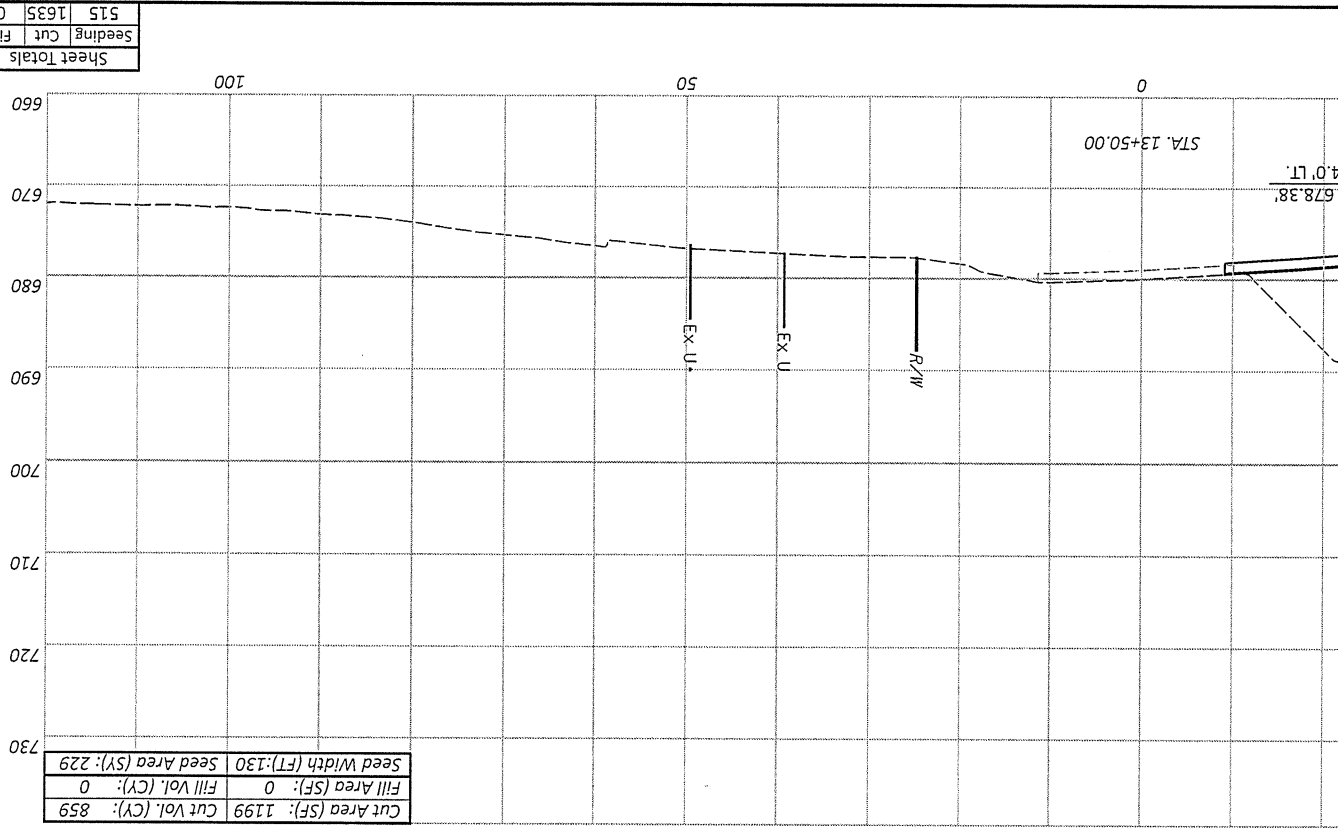
DESIGN AGENCY

PROJECT ID	115989
SHEET TOTAL	P.23 28
Sheet Totals	Seeding 515 Cut 1635 Fill 0

DESIGNER  
GPM

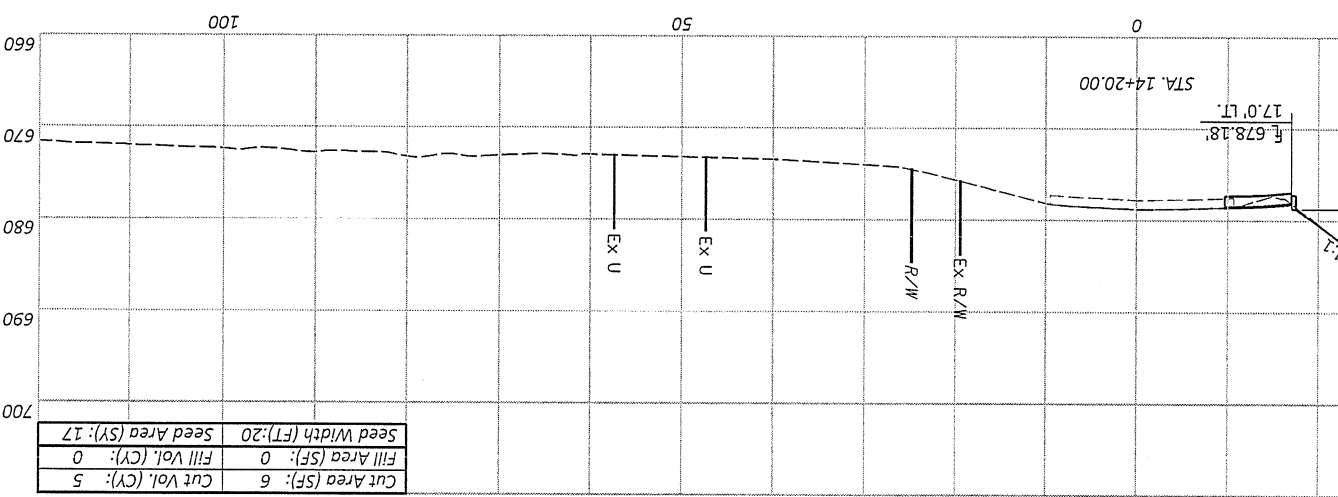
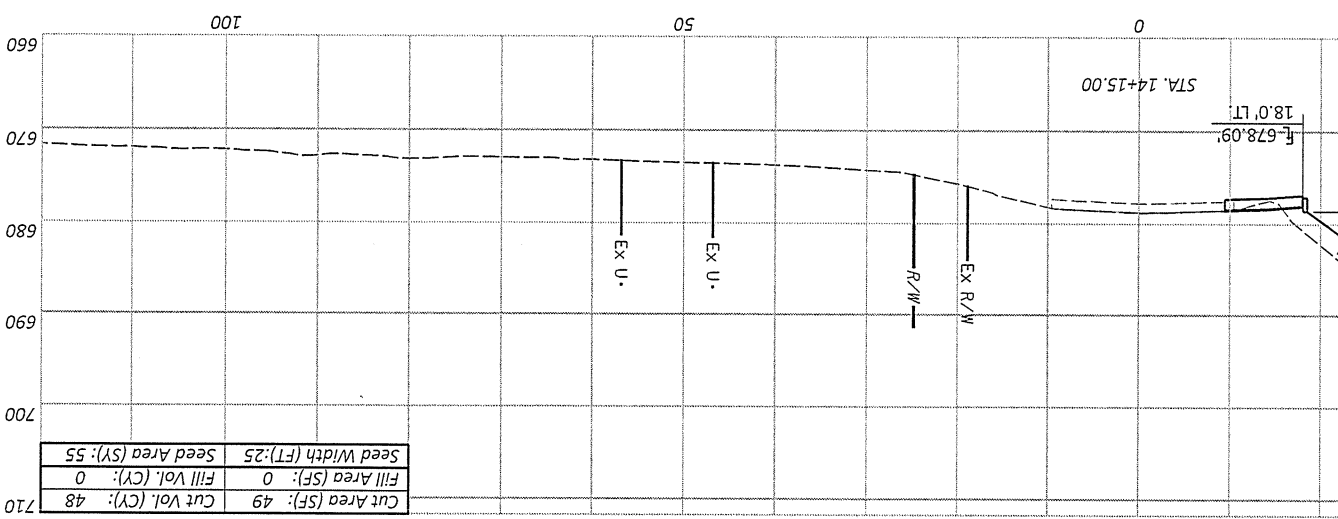
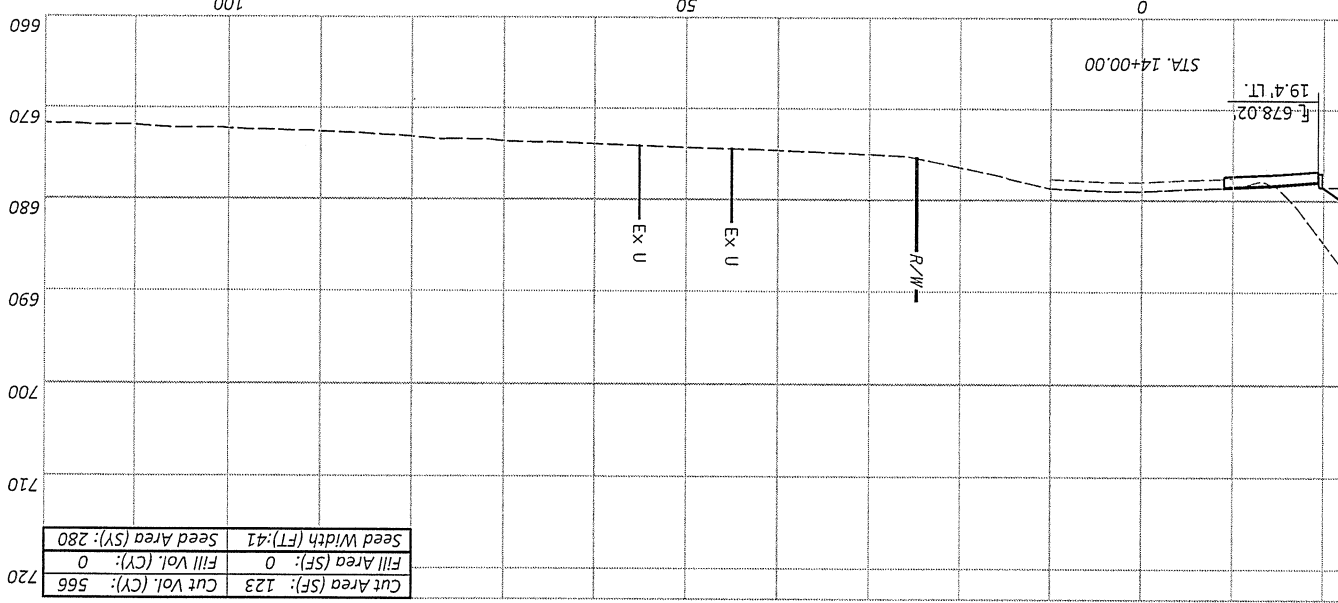
REVIEWER

DESIGN AGENCY



CROSS SECTIONS - S.R. 376  
STA. 13+50 - STA. 13+70

PROJECT ID	115989
DESIGNER	GPM
REVIEWER	
SHEET TOTAL	P.24 28
Seeding	352
Cut	619
Fill	0
Sheet Totals	



CROSS SECTIONS - S.R. 376  
 STA. 14+00 - STA. 14+20

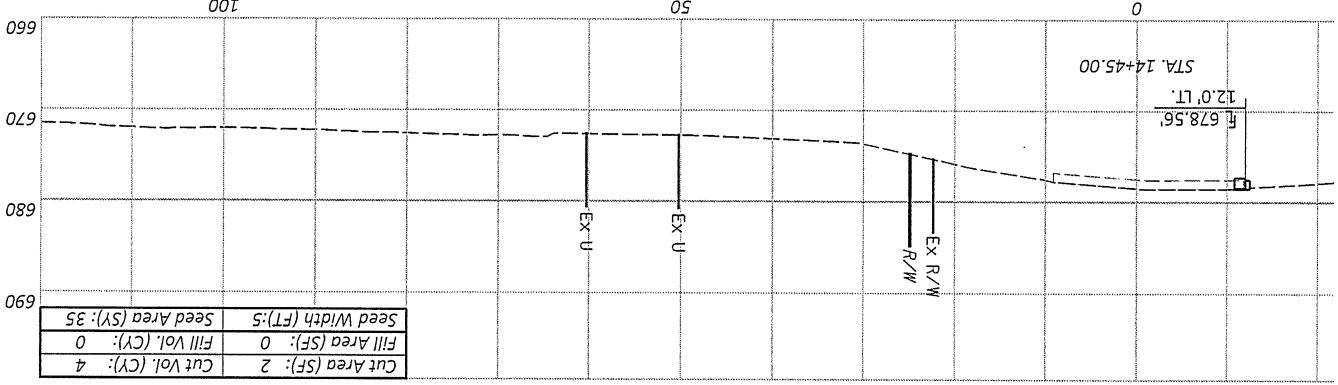


DESIGN AGENCY

HWORX TOTALS		
SEEDING (SY)	FILL (CY)	CUT (CY)
17	0	0
74	0	0
407	0	0
515	0	0
392	0	0
418	0	0
397	0	0
515	0	0
352	0	0
35	0	0
3122	0	0

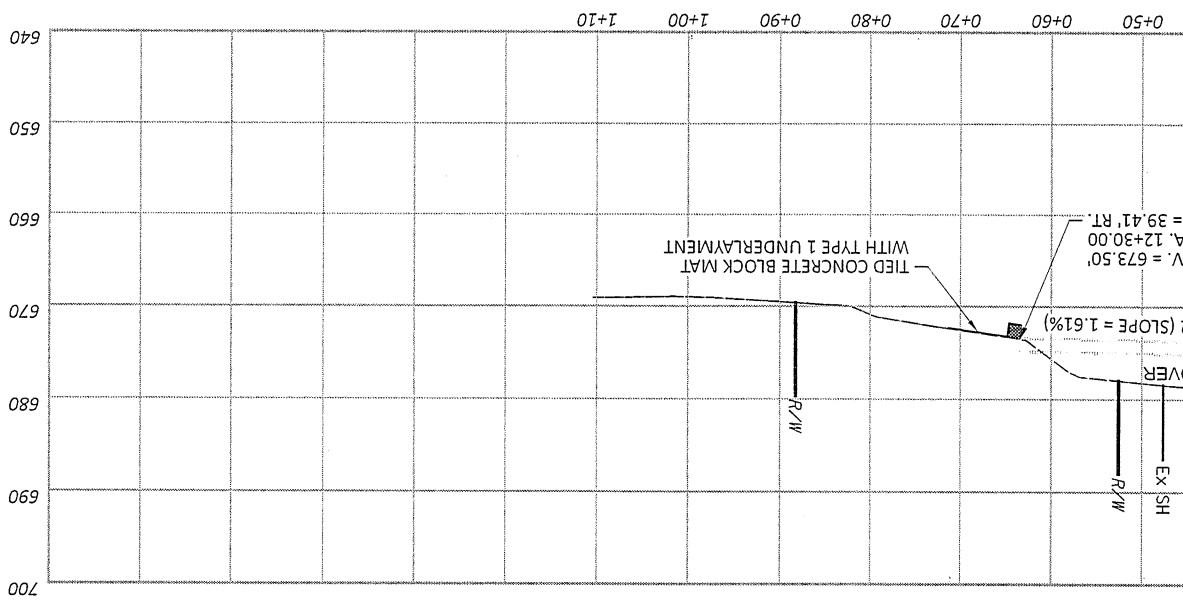
ES CARRIED TO SHEET 5

CORRECTED ARC LENGTH (FT)	CUT AREA (SF)	SEEDING WIDTH (FT)	CORRECTED CUT VOLUME (CY)	CORRECTED SEED AREA (SY)
-	62	34	-	-
24.62	899	121	438	212
14.39	1158	123	548	195
21.89	1497	126	1076	303
15.11	1564	127	857	212
13.39	1564	129	775	190
13.93	1639	132	826	202
13.88	1616	135	836	206
13.88	1758	140	867	212
13.86	1827	144	920	219
11.11	1898	145	766	178
14.97	1199	130	859	229



DESIGN AGENCY	DESIGNER	GPM	REVIEWER	PROJECT ID	115989	SHEET TOTAL	P.25	28
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CROSS SECTIONS - S.R. 376  
STA. 14+45



PROPOSED STRUCTURE

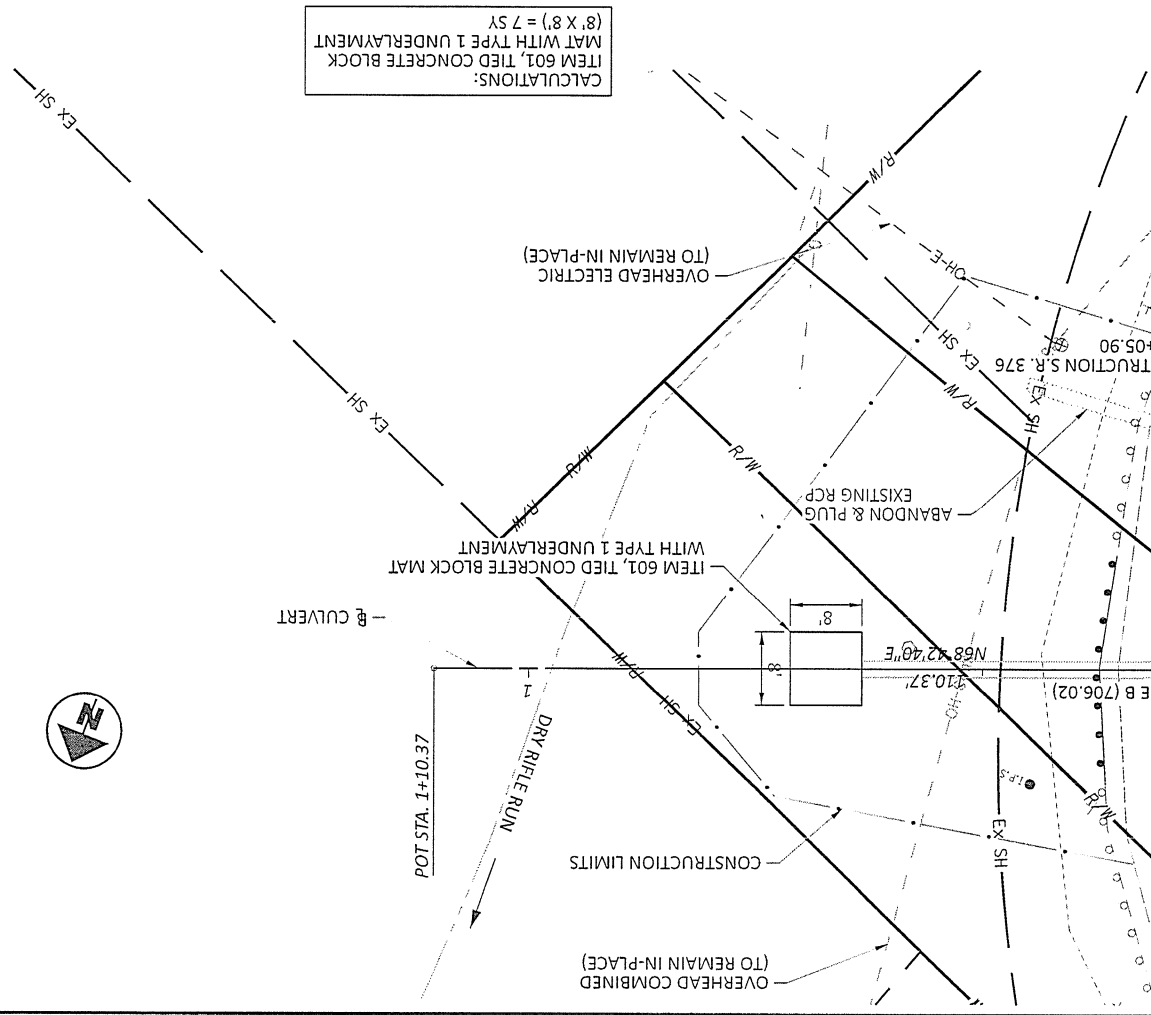
CN:	TYPE: B
DIA:	DIAMETER: 15"
LEN:	LENGTH: 62'
SKW:	SKEW: 90.0°
STRA:	STREAM:
LAT:	LAT: 39.803000
LONG:	LONG: -81.890036

HYDRAULIC DATA

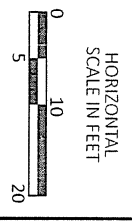
DESIGN SERVICE LIFE:	75 YEARS
ABRASION LEVEL:	
PH:	
Q100:	Q100 =
Q10:	Q10 =
V100:	V100 =

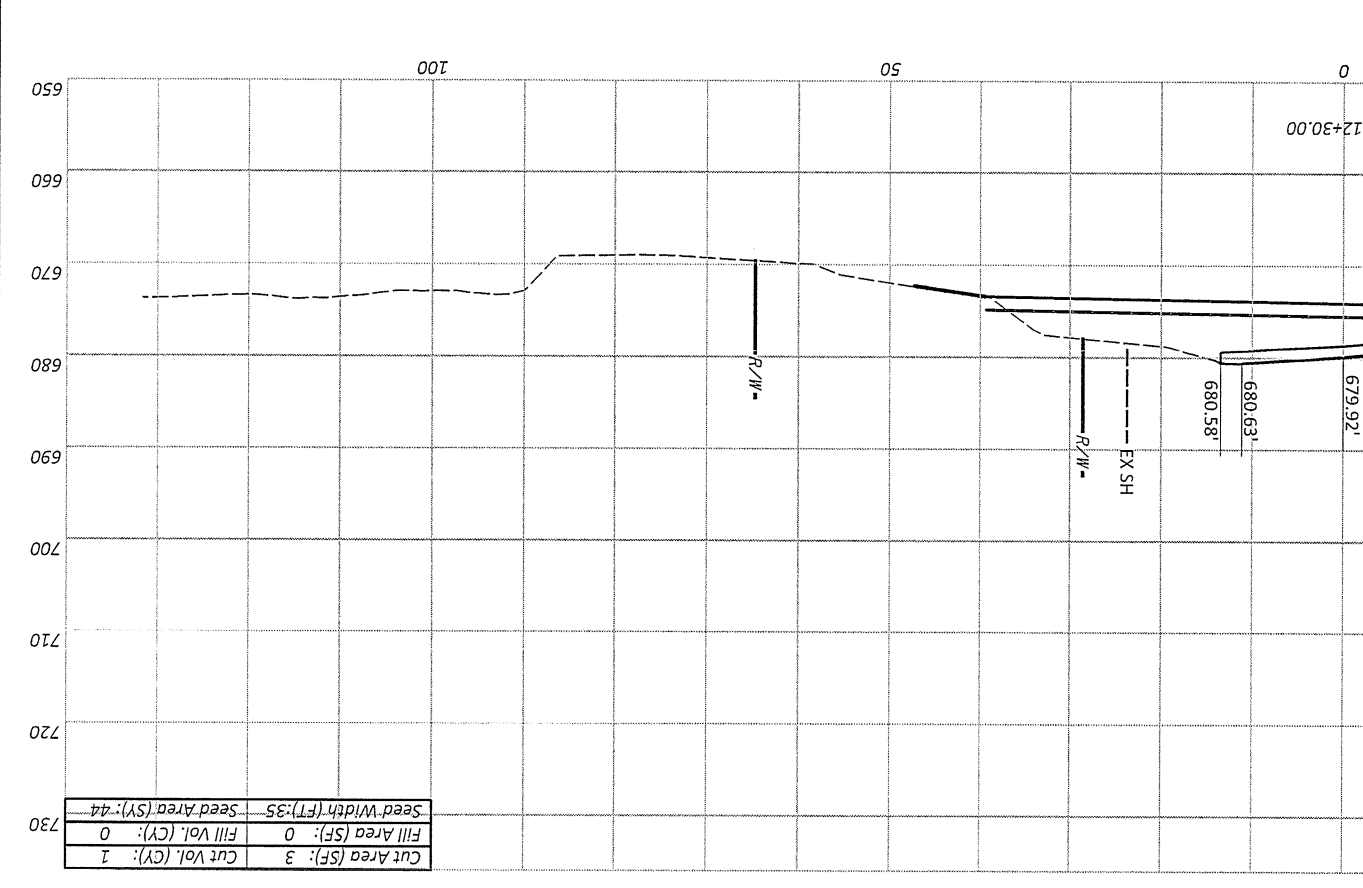
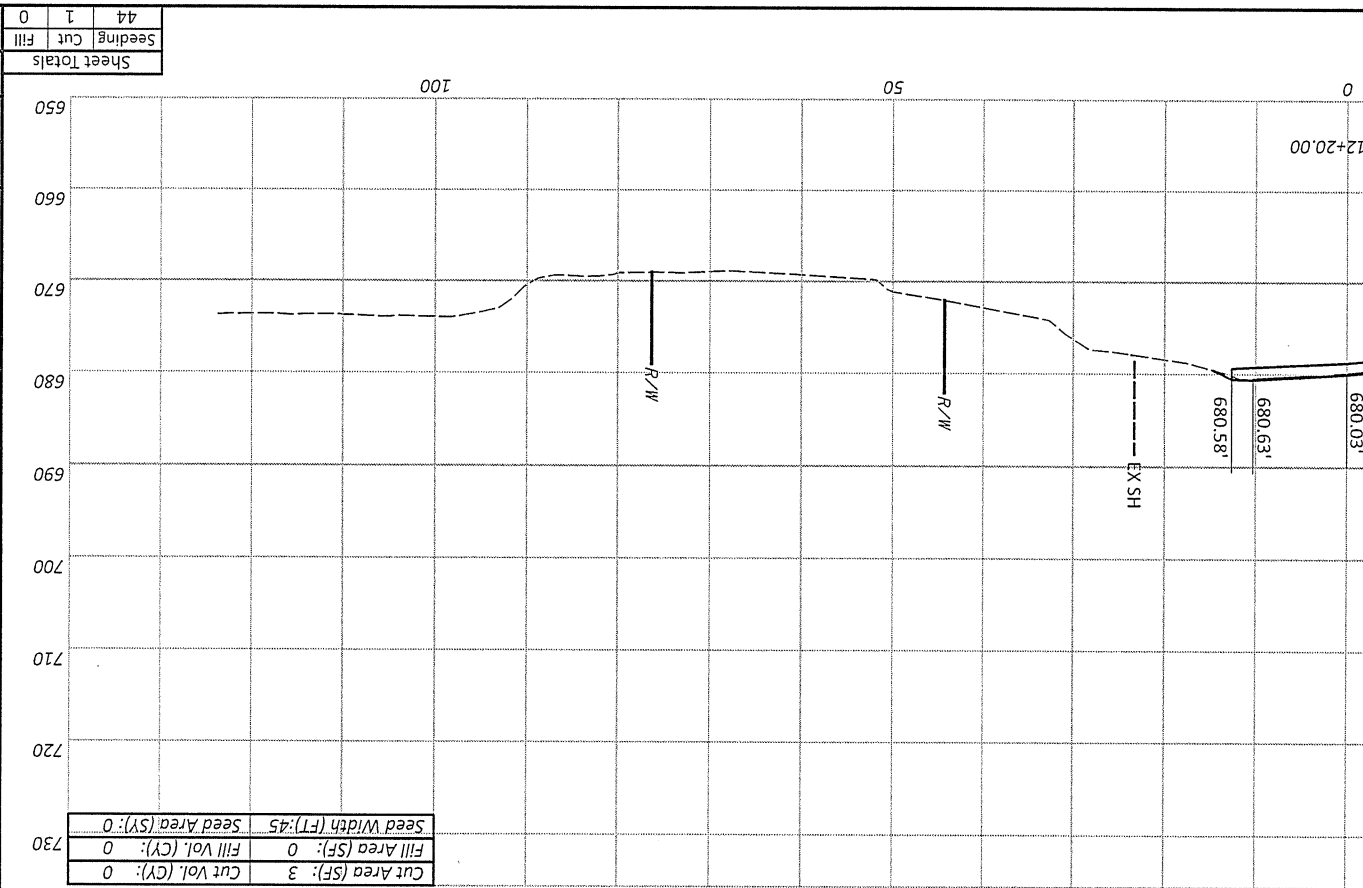
CULVERT DETAIL SHEET - STA. 12+30.00

S.R. - 376



CALCULATIONS:  
 MAT WITH TYPE 1 UNDERLAYMENT  
 (8' X 8') = 7 SY





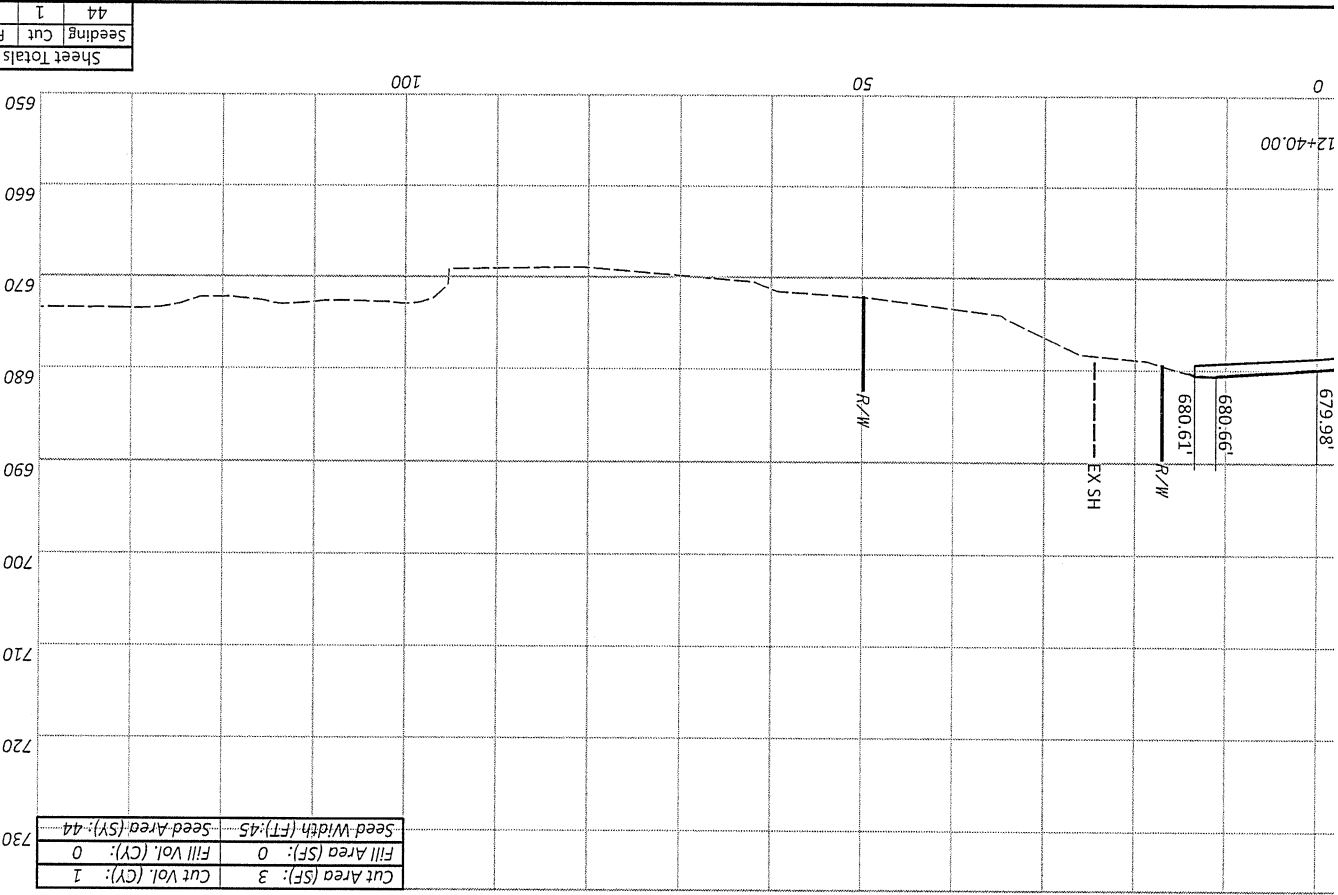
CROSS SECTIONS FOR CULVERT INSTALLATION - S.R. 376  
 STA. 12+20 - STA. 12+30



DESIGN AGENCY

HWK TOTALS		
Y	FILL (CY)	SEEDING (SY)
44	0	44
44	0	44
88	0	88

ES CARRIED TO SHEET 5



Cut Area (SF): 3	Cut Vol. (CY): 1
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): 45	Seed Area (SY): 44

Seeding	Cut	Fill
44	1	0

SHEET TOTAL

P. 28 28

PROJECT ID

115989

REVIEWER

GPM

DESIGNER

DESIGN AGENCY

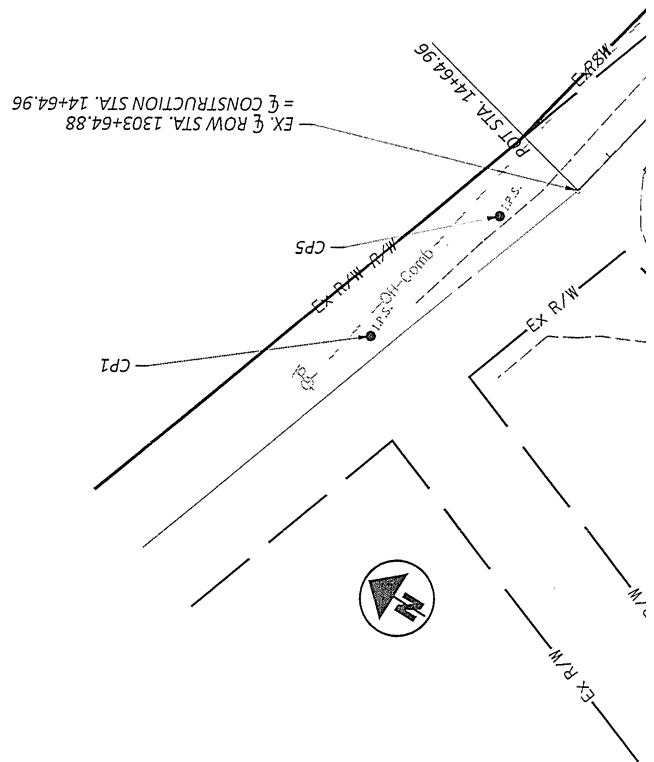


DESIGN AGENCY

CROSS SECTIONS FOR CULVERT INSTALLATION - S.R. 376  
STA. 12+40








POINT ID	NORTHING	EASTING	ELEVATION	CODE
CP1	657384.8401	2139594.5736	679.06	IPINS
CP2	657333.9435	2139812.8115	680.77	IPINS
CP3	657280.8029	2139891.4978	679.09	IPINS
CP5	657369.5708	2139650.7590	678.01	IPINS
CP6	657135.3337	2139745.0906	-	IPINS

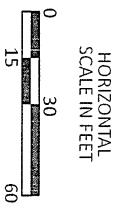
TABLE OF CONTROL POINTS

DESIGN AGENCY



DESIGNER GPM  
REVIEWER  
PROJECT ID 115989  
SHEET TOTAL P.2 28

SCHEMATIC PLAN  
MUS-376-5.09



EXISTING/PROPOSED TYPICAL GRADING SECTION - S.R. 376

STA. 10+20 TO STA. 10+50 = 0.0' TO 4.0'  
 STA. 10+50 TO STA. 11+25 = 4.0' TO 7.0'  
 STA. 11+25 TO STA. 13+50 = 7.0'  
 STA. 13+50 TO STA. 14+15 = 7.0' TO 4.0'  
 STA. 14+15 TO STA. 14+45 = 4.0' TO 0.0'  
 STA. 10+20 TO STA. 10+50 = 12.0' TO 14.0'  
 STA. 10+50 TO STA. 11+25 = 14.0' TO 17.0'  
 STA. 11+25 TO STA. 13+50 = 17.0'  
 STA. 13+50 TO STA. 14+15 = 17.0' TO 14.0'  
 STA. 14+15 TO STA. 14+45 = 14.0' TO 12.0'  
 STA. 10+20 TO STA. 10+50 = 8.0' TO 15.0'  
 STA. 11+55 TO STA. 13+20 = 15.0'  
 STA. 13+20 TO STA. 14+20 = 15.0' TO 8.0'  
 STA. 10+55 TO STA. 11+55 = 0.0' TO 10.0'  
 STA. 11+55 TO STA. 13+20 = 10.0'  
 STA. 13+20 TO STA. 14+20 = 10.0' TO 0.0'

WIDTHS & HEIGHTS

**A** LT. PAVEMENT BREAKPOINT  
 STA. 10+20 TO STA. 10+50 = 12.0' TO 14.0'  
 STA. 10+50 TO STA. 11+25 = 14.0' TO 17.0'  
 STA. 11+25 TO STA. 13+50 = 17.0'  
 STA. 13+50 TO STA. 14+15 = 17.0' TO 14.0'  
 STA. 14+15 TO STA. 14+45 = 14.0' TO 12.0'  
**B** LT. 8% SLOPE PAVEMENT WIDTH  
 STA. 10+20 TO STA. 10+50 = 0.0' TO 4.0'  
 STA. 10+50 TO STA. 11+25 = 4.0' TO 7.0'  
 STA. 11+25 TO STA. 13+50 = 7.0'  
 STA. 13+50 TO STA. 14+15 = 7.0' TO 4.0'  
 STA. 14+15 TO STA. 14+45 = 4.0' TO 0.0'  
**C** LT. B.S. HEIGHT  
 STA. 10+55 TO STA. 11+55 = 8.0' TO 15.0'  
 STA. 11+55 TO STA. 13+20 = 15.0'  
 STA. 13+20 TO STA. 14+20 = 15.0' TO 8.0'  
**D** LT. BENCH WIDTH  
 STA. 10+55 TO STA. 11+55 = 0.0' TO 10.0'  
 STA. 11+55 TO STA. 13+20 = 10.0'  
 STA. 13+20 TO STA. 14+20 = 10.0' TO 0.0'

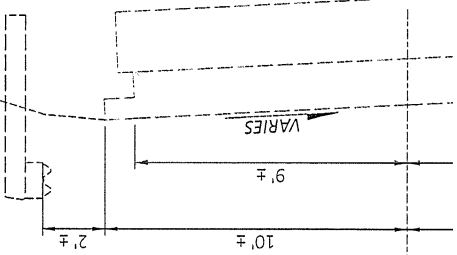
SLOPES

\* LT. BACK SLOPE  
 STA. 10+55 TO STA. 11+55 = 1.5:1 TO 2:1  
 STA. 11+55 TO STA. 13+20 = 2:1  
 STA. 13+20 TO STA. 14+20 = 2:1 TO 1.4:1  
 \* LT. TIE SLOPE  
 STA. 10+55 TO STA. 10+75 = 1.5:1  
 STA. 10+75 TO STA. 11+05 = 1.5:1 TO 2:1  
 STA. 11+05 TO STA. 13+70 = 2:1  
 STA. 13+70 TO STA. 14+20 = 2:1 TO 1.4:1



& GRADING TYPICAL SECTION - S.R. 376  
 5.00 (SHOULDER WIDENING)  
 - 14+15.00 (GRADING)

CAL SECTION - S.R. 376  
 +00.00 - 14+64.96

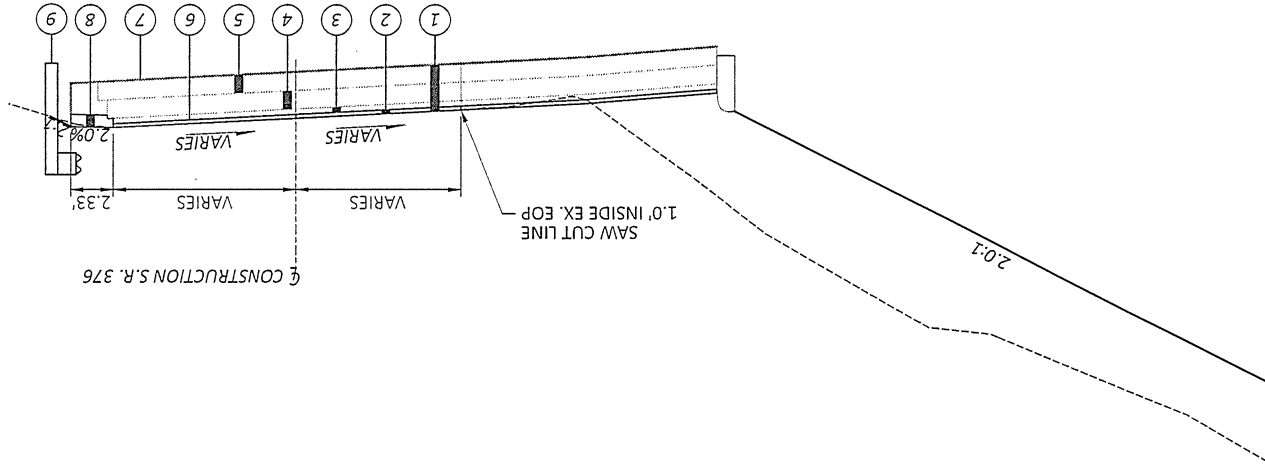


CONSTRUCTION S.R. 376

EXISTING/PROPOSED CULVERT INSTALLATION TYPICAL SECTION - S.R. 376

PROPOSED TYPICAL SECTION FOR CULVERT INSTALLATION - S.R. 376

STA. 12+20.00 - 12+40.00

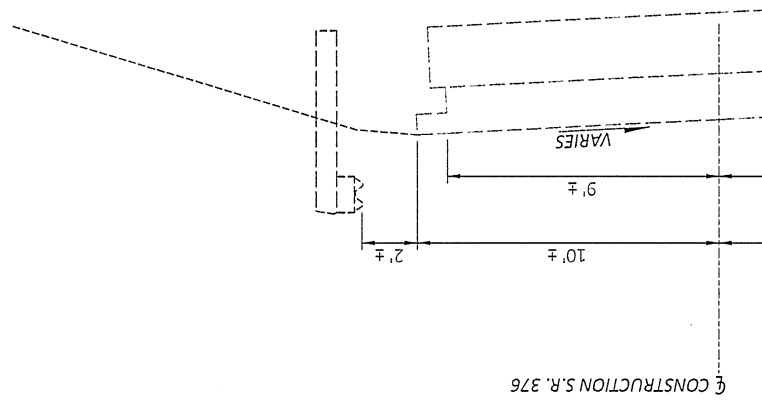


PAVEMENT ELEVATION TABLE

STA.	SAW CUT (LT.)	ƒ	EOP (RT.)	EOS (RT.)
12+40	679.10	679.98	680.66	680.61
12+30	679.04	679.92	680.63	680.58
12+20	679.03	680.03	680.63	680.58

OR CULVERT INSTALLATION - S.R. 376

+20.00 - 12+40.00



GENERAL NOTES

ITEM 623, CONSTRUCTION LAYOUT STAKES AND SURVEYING,  
 AS PER PLAN (CONTINUED)  
 THE ASCII FILE SHALL INCLUDE A HEADER CONTAINING:  
 NAME OF SURVEYOR  
 DATE(S) OF COLLECTION  
 HORIZONTAL DATUM (I.E. NAD83 (2011), OHIO SPCS NORTH OR SOUTH)  
 VERTICAL DATUM (I.E. NAVD 88, GEOID12A)  
 METHOD OF COLLECTION (I.E. OHIO VRS, GPS RTK, TOTAL STATION, ETC.)  
 THE ASCII FILE SHALL BE IN TABLE FORM AS FOLLOWS:  
 PT. NO./NORTHING/EASTING/ELEVATION/FEATURE CODE/DESCRIPTION  
 BELOW IS A LIST OF THE ITEMS THE CONTRACTOR SHALL PROVIDE FOR  
 THIS PROJECT:  
 -CULVERT INVERT AT INLET AND OUTLET  
 THE ABOVE ITEMS SHALL BE COLLECTED USING SURVEY GRADE  
 EQUIPMENT MEETING THE REQUIREMENTS OF SECTION 400 IN THE  
 ODOT SURVEY & MAPPING SPECIFICATIONS MANUAL.  
 ALL COSTS ASSOCIATED WITH OBTAINING THE INFORMATION LISTED  
 ABOVE SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 623,  
 CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN.  
 THE FOLLOWING QUANTITY HAS BEEN INCLUDED IN THE GENERAL  
 SUMMARY TO PERFORM THE WORK DESCRIBED ABOVE:  
 ITEM 623, CONSTRUCTION LAYOUT STAKES AND SURVEYING,  
 AS PER PLAN (LS)  
SURVEYING PARAMETERS  
 PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL  
 POSITIONING ON ODOT PROJECTS. SEE SHEET \_\_\_ OF THE PLANS  
 FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.  
 USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING,  
 AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:  
 PROJECT CONTROL  
 POSITIONING METHOD: LOCAL RT NETWORK AND STATIC  
 GPS OBSERVATIONS  
 MONUMENT TYPE: TYPE B ODOT DS  
 VERTICAL POSITIONING  
 ORTHOMETRIC HEIGHT DATUM: NAVD88  
 GEOID: 12B  
 HORIZONTAL POSITIONING  
 REFERENCE FRAME: NAD83 (2011)  
 ELLIPSOID: GRS 1980  
 MAP PROJECTION: LAMBERT CONFORMAL CONIC  
 COORDINATE SYSTEM: OHIO NORTH  
 COMBINED SCALE FACTOR: 0.99995376  
 ORIGIN OF COORDINATE SYSTEM: 600,000M, Y=0M  
 USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN  
 THE ORIGINAL SURVEY TO RESTORE THAT ARE DAMAGED OR  
 DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE  
 DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH  
 UNITS ARE IN U.S. SURVEY FEET. CMS 623.

ITEM 690, SPECIAL - ROADWAY PRESERVATION  
 PRESERVE THE EXISTING PAVEMENT AND GUARDRAIL VIDEO  
 DOCUMENT THE ROADWAY AND GUARDRAIL CONDITIONS PRIOR TO  
 STARTING THE EXCAVATION OF SLOPE AND REMOVAL OF WASTE  
 MATERIALS. SUBMIT PROTECTION PLAN FOR THE PROJECT ENGINEERS'  
 FILES.  
 REPAIR ANY DAMAGE TO THE ROADWAY AND GUARDRAIL DURING  
 CONSTRUCTION AT NO ADDITIONAL COSTS TO THE STATE, UNLESS  
 ITEMIZED SEPARATELY, INCLUDE ALL LABOR, MATERIALS, AND TOOLS  
 NECESSARY FOR PROTECTION OF EXISTING ROADWAY PAVEMENT.  
 ITEM 690 SPECIAL, ROADWAY PRESERVATION, LUMP  
 ITEM SPECIAL - FILL AND PLUG EXISTING CONDUIT  
 THIS ITEM CONSISTS OF THE CONSTRUCTION OF BULKHEADS IN AN  
 EXISTING 12 INCH DIAMETER CONDUIT AND FILLING THE AREA SEALED  
 OFF WITH ITEM 613, SAND OR OTHER MATERIAL APPROVED BY THE  
 SAND OR OTHER MATERIAL APPROVED BY THE ENGINEER.  
 LOCATE THE BULKHEADS AT THE LIMITS OF THE AREA TO BE FILLED, AS  
 INDICATED ON THE PLANS. THE BULKHEADS CONSIST OF BRICK OR  
 CONCRETE MASONRY WITH A MINIMUM THICKNESS OF 12 INCHES.  
 PUMP THE FILL MATERIAL INTO PLACE OR BY OTHER MEANS APPROVED  
 BY THE ENGINEER, SO THAT AFTER SETTLEMENT, AT LEAST 90 PERCENT  
 OF THE CROSS-SECTIONAL AREA OF THE CONDUIT, FOR ITS ENTIRE LENGTH  
 IS FILLED. THE LENGTH OF FILLED AND PLUGGED CONDUIT TO BE PAID  
 FOR IS THE ACTUAL NUMBER OF FEET (MEASURED ALONG THE CENTERLINE  
 OF EACH CONDUIT FROM OUTER FACE TO OUTER FACE OF BULKHEADS)  
 FILLED AND PLUGGED AS DESCRIBED ABOVE.  
 IN LIEU OF FILLING AND PLUGGING THE EXISTING CONDUIT, THE PIPE MAY  
 BE CRUSHED AND BACKFILLED PER 203, OR IT MAY BE REMOVED. THE  
 LENGTH, MEASURED AS PROVIDED ABOVE, WILL BE PAID FOR AT THE  
 CONTRACT PRICE PER FOOT FOR, ITEM SPECIAL, FILL AND PLUG EXISTING  
 CONDUIT.  
 ITEM 623, CONSTRUCTION LAYOUT STAKES AND SURVEYING,  
 AS PER PLAN  
 IN ADDITION TO THE REQUIREMENTS OF ITEM 623, CONSTRUCTION  
 LAYOUT STAKES AND SURVEYING, THE CONTRACTOR SHALL PROVIDE  
 THE FOLLOWING INFORMATION TO THE DEPARTMENT:  
 THE CONTRACTOR SHALL PROVIDE AS-BUILT DATA FOR THE  
 SPECIFIED COMPLETED CONSTRUCTION ITEMS IN OHIO STATE PLANE  
 COORDINATES (GRID). THE CONSTRUCTION ITEMS SHALL BE LOCATED  
 AS PER THE SURVEY FEATURE CODE LIST FOUND ON THE OHIO  
 DEPARTMENT OF TRANSPORTATION OFFICE OF CAD & MAPPING  
 SERVICES WEBSITE. AFTER ALL INFORMATION HAS BEEN COLLECTED,  
 AN EMAIL CONTAINING A COMMA DELIMITED ASCII FILE AND A  
 SURVEYOR'S CERTIFICATION SHALL BE DELIVERED TO:  
 Cody.gierhart@dot.ohio.gov (D5 GIS COORDINATOR) AND  
 Steven.Miller@dot.ohio.gov (D5 CONSTRUCTION AREA ENGINEER)  
 ITEM 408, PRIME COAT, AS PER PLAN  
 THE CONTRACTOR SHALL APPLY ONE COAT OF MC-70 (AS PER CMS 702)  
 AT A RATE OF 0.40 GAL/SY TO THE COMPLETED AGGREGATE SHOULDER.  
 TO REDUCE AGGREGATE LOSS, THE PRIME COAT SHALL BE APPLIED WITHIN  
 SEVEN (7) DAYS AFTER PLACEMENT OF THE AGGREGATE SHOULDER OR  
 LIQUIDATED DAMAGES PER CMS 108.07 WILL BE ASSESSED. THE  
 CONTRACTOR SHALL PROVIDE A SHIELD TO PREVENT THE SPRAYING  
 OR DRIFTING OF LIQUID BITUMINOUS MATERIAL ONTO THE EDGE  
 OF PAVEMENT OR EDGE LINE. THE ATTENTION OF THE CONTRACTOR  
 IS DIRECTED TO 107.10 OF THE SPECIFICATIONS.



PIS GR-1.1

PLAN INSERT SHEET  
GUARDRAIL DETAILS  
(Rail Components)

REVISION DATE  
1/18/2013  
DESIGNED XXX  
CHECKED XXX

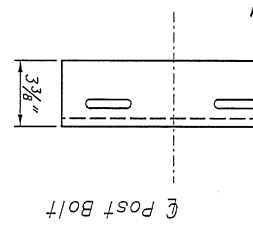
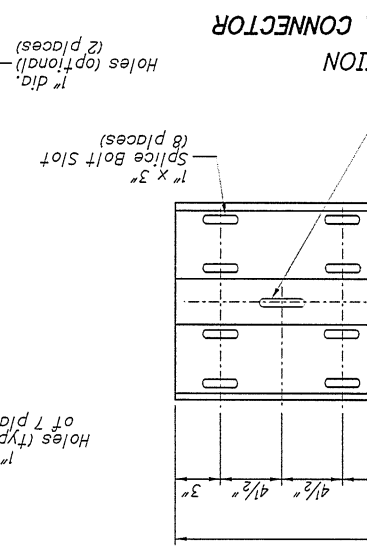
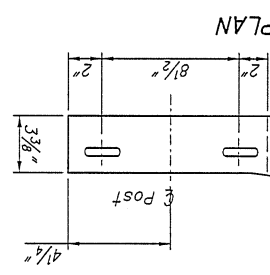
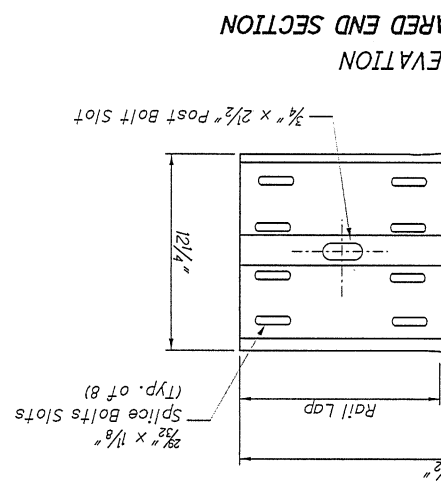
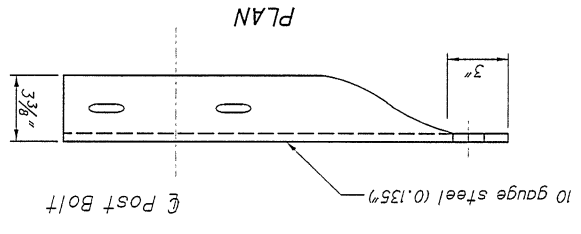
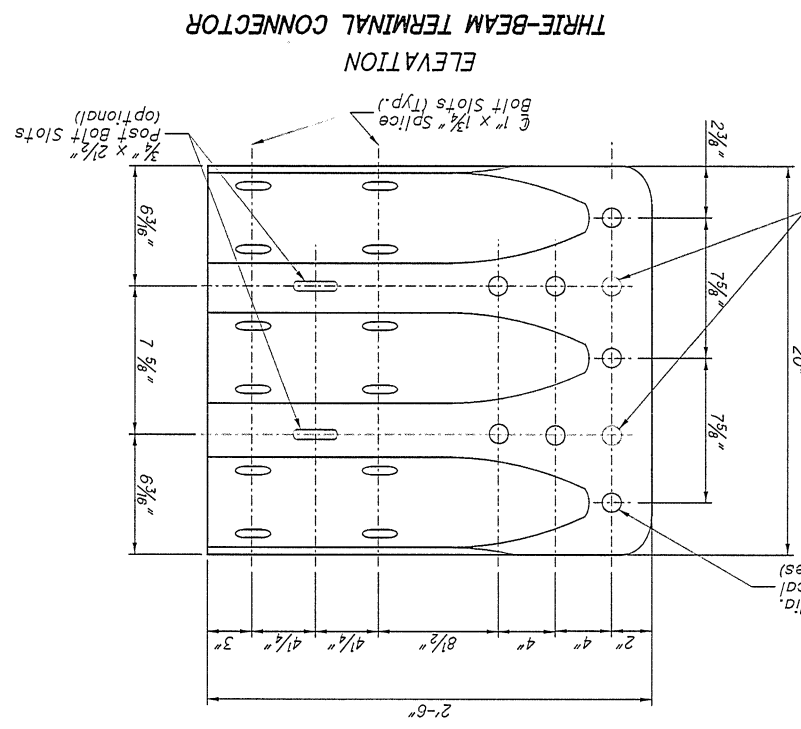
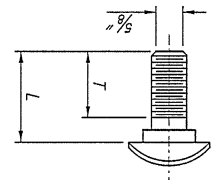
OFFICE OF  
ROADWAY  
ENGINEERING

TYPE 5 GUARDRAIL DETAILS (1 OF 3) - PLAN INSERT SHEET

GUARDRAIL BOLT (For Post and Splice Bolts)			
L	T min.	4"	Type 5: WP/WB, PB
		10"	Type 5: SP/WB, PB
1 1/4"	1 1/8"	Splice Bolt	

WP = Wood Post  
SP = Steel Post  
WB = Wood Blockout  
PB = Plastic Blockout

Longer Bolt may be needed for round Wood Post larger than 8" dia.



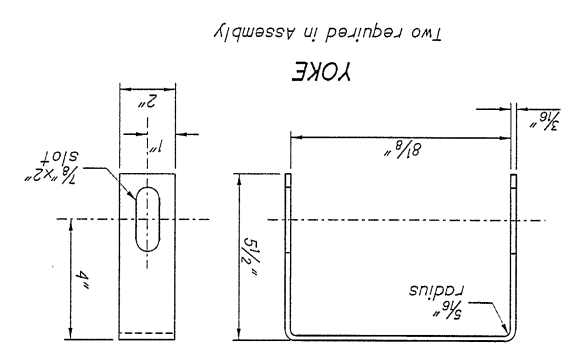
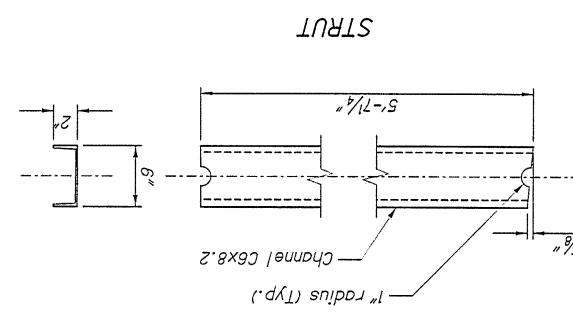
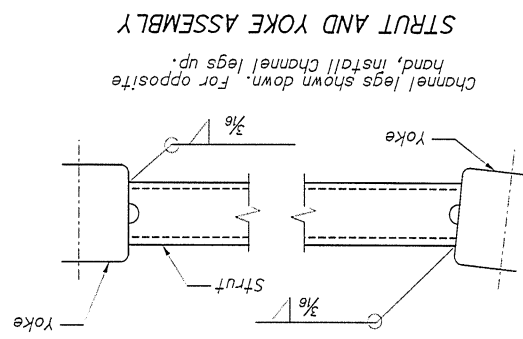
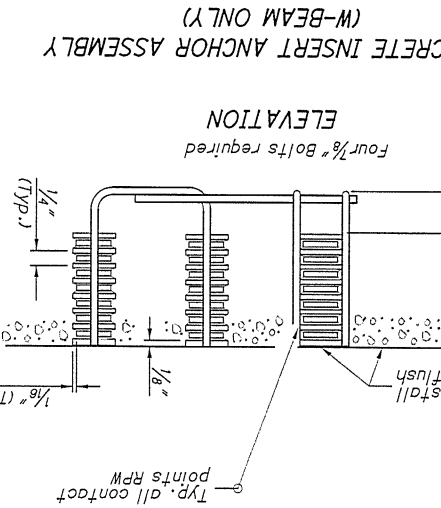
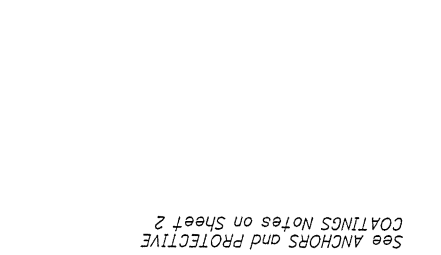
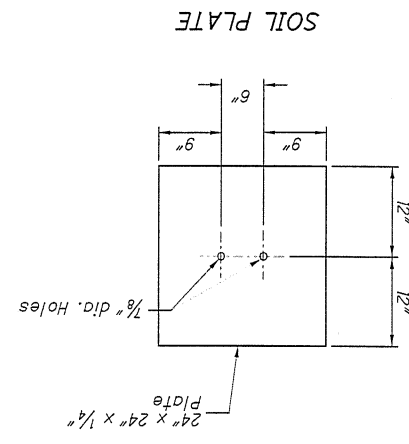
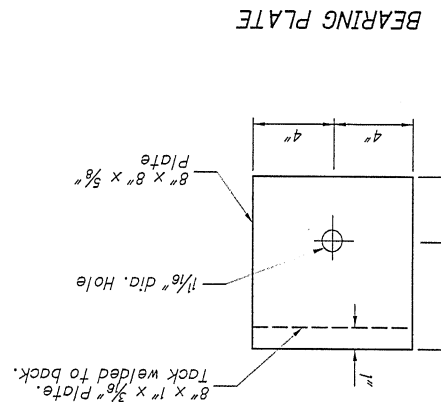
RED END SECTION ELEVATION

PLAN

CONNECTOR ELEVATION

PLAN





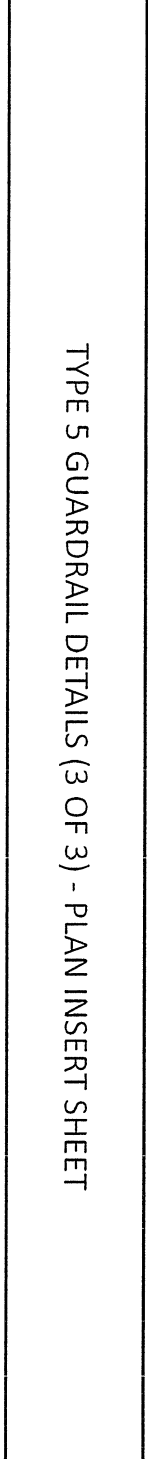
PLAN INSERT SHEET  
**GUARDRAIL DETAILS**  
 (Rail Components)  
**PIS GR-1.1**

DESIGNED	REVISION DATE
XXX	1/18/2013
REVIEWED	CHECKED
XXX	XXX
OFFICE OF ROADWAY ENGINEERING	

Two required in Assembly

See ANCHORS and PROTECTIVE COATINGS Notes on Sheet 2

TYPE 5 GUARDRAIL DETAILS (3 OF 3) - PLAN INSERT SHEET

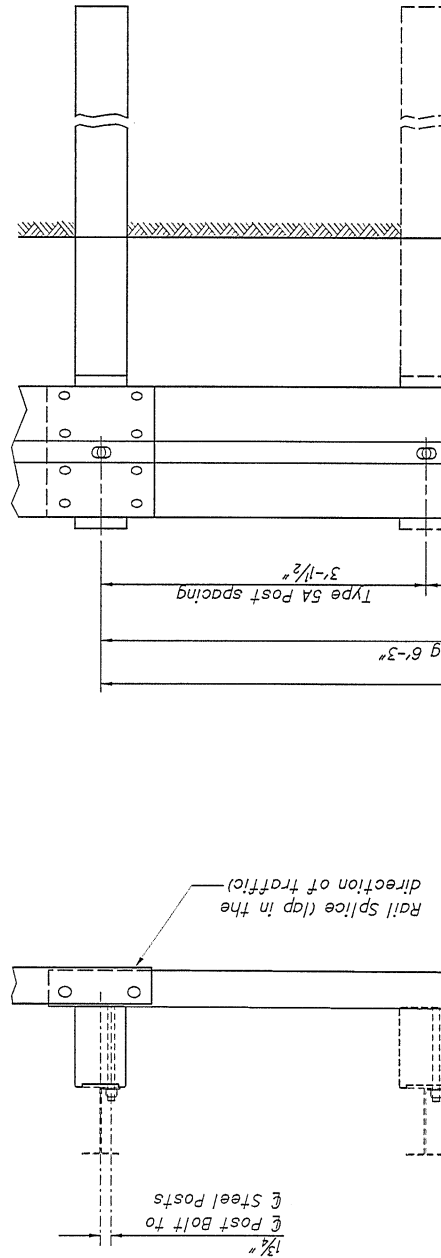




0 0  
 1 / 2  
**PIS GR-2.1**  
 PLAN INSERT SHEET  
**GUARDRAIL TYPE 5 & 5A**  
 DESIGNED XXXX  
 REVIEWED XXXX  
 CHECKED XXXX  
 1/18/2013  
 OFFICE OF ROADWAY ENGINEERING

STEEL BEAM POSTS (English)					
Size	Beam depth	Flange width	Flange thickness	Web thickness	Welded 6x9
6.0"	6.0"	3.94"	0.193"	0.170"	Welded 6x9
5.9"	5.9"	3.94"	0.215"	0.170"	Welded 6x8.5
5.8"	5.8"	3.94"	0.193"	0.170"	Welded 6x8.5
5.8"	5.8"	3.94"	0.215"	0.170"	Welded 6x9
6.0"	6.0"	3.94"	0.193"	0.170"	Welded 6x8.5

**RAIL:** Use W-beam rail meeting AASHTO M 180 Type II Class A, as specified in CMS 606.  
**POSTS:** Posts may be constructed of wood or steel. Wood posts may be round or 6"x8" square-sawn. Round wood posts shall be 8% in diameter at the top and not more than 3" larger at the butt with a uniform taper.  
 Fabricated wood posts with square ends. Posts shall be pressure-treated as per CMS 710.14. Bore bolt holes and, if required, trim the tops of posts after the posts are set.  
 Steel posts are to be W6x9 or W6x5 galvanized steel. Use the same type of post throughout the length of the project unless otherwise specified in the plans or permitted by the Engineer.  
 All posts are 6'-0" long unless specified otherwise in the Contract Document. Posts may be set in drilled holes or may be driven to grade.  
**WELDED BEAM POSTS:** Welded beam guardrail posts may be used for Item 606, Guardrail, provided the web and flange sizes are as shown here. Welding of the web to the flanges must comply with ASTM A 769, Class 1, using grade 36 steel (250 MPa yield point) with the following exceptions:  
 Sec. 7.2 Test reports of tensile properties for each lot shall accompany each shipment.  
 Sec. 12 Beams that have imperfections repaired by welding shall not be accepted for use in Item 606.  
 Sec. 13 Random samples shall be tested by the Department from materials delivered to the project site, or other locations designated by the Laboratory.  
**ALTERNATE POSTS:** Engineered guardrail posts having met NCHRP 350 criteria, and listed on the Office of Materials Management's Approved List are permitted as an equal alternate when installed according to the Manufacturer's instructions and within the limitations shown on the Approved List.  
**BLOCKOUTS:** Blockout dimensions are dependent on post used. Wood blockouts are to be pressure treated as specified in CMS 710.14. Bore bolt holes. Approved alternate blockouts may be used in lieu of the wood blockouts shown. The approved list is maintained by the Office of Roadway Engineering.  
**WASHERS:** Install appropriate sized standard galvanized steel washers on the nut side of bolts installed on wood posts.  
**DELIMITATION:** For barrier reflectors, see CMS 626.  
**MISCELLANEOUS:** For other guardrail details, see SCD GR-1.1.

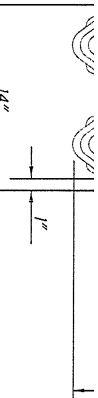


**NOTES**

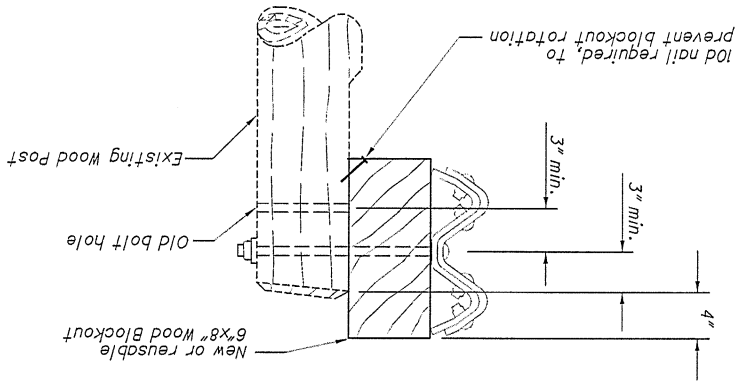
if not required it is cut as shown



1/2" notched lockouts (See NOTCHED CUT Detail)



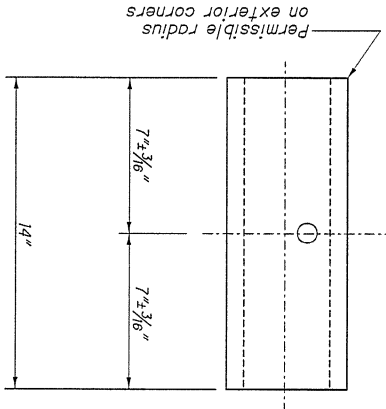
WOOD POSTS WITH WOOD BLOCK  
RAISING EXISTING GUARDRAIL HEIGHT



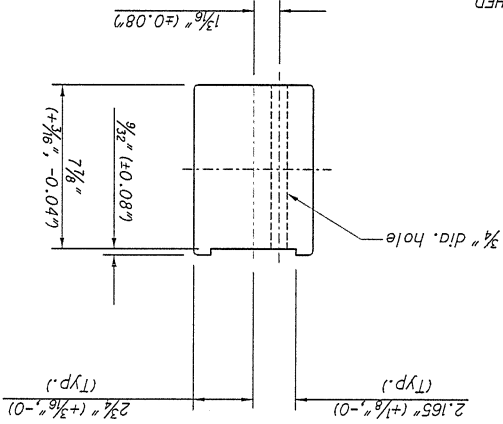
NOTCHED BLOCKOUTS  
FOR STEEL POSTS

See BLOCKOUTS Note on Sheet 1

ELEVATION



PLAN



0	0
2	2

PIS GR-2.1

PLAN INSERT SHEET  
GUARDRAIL TYPE 5 & 5A

DESIGNED	XXX	OFFICE OF ROADWAY ENGINEERING
REVIEWED	XXX	
CHECKED	XXX	
DATE	1/18/2013	

TYPE 5 GUARDRAIL - (2 OF 2)



DESIGN AGENCY

DESIGNER  
GPM

REVIEWER

PROJECT ID  
115989

SHEET TOTAL  
P.10 28

**ITEM 614, MAINTAINING TRAFFIC (SIGNS AND BARRICADES)**

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN SIGNS AND SIGN SUPPORTS, AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND TYPE III BARRICADES.

**ITEM 614, MAINTAINING TRAFFIC (ROAD CLOSED SIGN)**

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48 X 30 INCH ROAD CLOSED SIGNS, SIGN SUPPORTS, BARRICADES AND LIGHTS, AS DETAILED IN SCD MT-101.60 DURING PERIODS IN WHICH THE AFFECTED ROAD IS CLOSED TO TRAFFIC.

**DUST CONTROL**

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

**ITEM 616, WATER (1 MGAL)**

**CRITICAL WORK**

IF THE CRITICAL WORK IS NOT COMPLETED WITHIN THE CALENDAR DAYS DESIGNATED THE CONTRACTOR WILL BE SUBJECT TO A DISINCENTIVE OF \$1000.00 PER DAY. ALL OTHER WORK IS TO BE COMPLETED BY THE PROPOSAL COMPLETION DATE.

CRITICAL WORK TABLE: MUS-146-29.42

DESCRIPTION OF CRITICAL WORK	CALENDAR DAYS TO COMPLETE	DIS-INCENTIVE (\$ PER DAY)
EXCAVATION, INSTALLATION OF CURB, & PAVEMENT TO INTERMEDIATE COURSE	SIXTY (60) CALENDAR DAYS	\$1000 PER DAY

THE FINAL COMPLETION DATE FOR THE PROJECT WILL BE AS LISTED IN THE PROPOSAL.

THE FINAL SURFACE COURSE AND THE STRIPING CAN BE PERFORMED AS A FLAGGING OPERATION.

**DESIGNATED LOCAL DETOUR ROUTE**

IN ADDITION TO THE OFFICIAL, SIGNED DETOUR ROUTE, A LOCAL DETOUR ROUTE HAS BEEN DETERMINED TO BE THE SECONDARY, UNSIGNED DETOUR ROUTE OR "DESIGNATED LOCAL DETOUR ROUTE". THIS DETOUR ROUTE IS SHOWN ON SHEET 6, DURING THE TIME THAT TRAFFIC IS DETOURED, THE CONTRACTOR SHALL MAINTAIN THIS ROUTE IN A CONDITION WHICH IS REASONABLY SMOOTH AND FREE FROM HOLES, RIDGES, BUMPS, DUST, AND STANDING WATER. ONCE THE DETOUR IS REMOVED AND TRAFFIC RETURNED TO ITS NORMAL PATTERN, THE DESIGNATED LOCAL DETOUR ROUTE SHALL BE RESTORED TO A CONDITION THAT IS EQUIVALENT TO THAT WHICH EXISTED PRIOR TO ITS USE FOR THIS PURPOSE. ALL SUCH WORK SHALL BE PERFORMED WHEN AND AS DETERMINED BY THE ENGINEER. THE FOLLOWING QUANTITIES ARE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER TO MAINTAIN AND SUBSEQUENTLY RESTORE THE DESIGNATED LOCAL DETOUR ROUTE.

**ITEM 441, ASPHALT CONCRETE, MISC.: SPOT TREATMENT (20 CY)**

**ITEM 407, NON-TRACKING TACK COAT (24 GAL)**

**ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN**

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, A CHANGEABLE MESSAGE SIGN. THE SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS AVAILABLE ON THE OFFICE OF MATERIALS MANAGEMENT WEB PAGE. THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCES OF 800 FEET AND 650 FEET, RESPECTIVELY.

EACH SIGN SHALL BE TRAILER-MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM, TO DIM THE SIGN DURING DARKNESS, AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY. THE PCMS SHALL BE DELINEATED IN ACCORDANCE WITH C&MS 614.03.

THE PROBABLE PCMS LOCATIONS AND WORK LIMITS FOR THOSE LOCATIONS, PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED AWAY FROM ALL TRAFFIC.

THE ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND INSTRUCTIONS TO ENABLE ODOT PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT, AND TO REVISE SIGN MESSAGES, IF NECESSARY.

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED PRE-PROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRECONSTRUCTION CONFERENCE. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PRE-PROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON-BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE-LINE PRESENTATION FORMATS WITH UP TO SIX MESSAGE PHASES SHALL BE SUPPORTED. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST TWICE.


THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DEACTIVATED OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24-HOUR-PER-DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES WHEN THE PLAN REQUIRES THEIR USE. PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK.

**ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN (8 SNMT)**

(ASSUMING 4 SIGNS FOR 2 MONTHS.)

DESIGN AGENCY



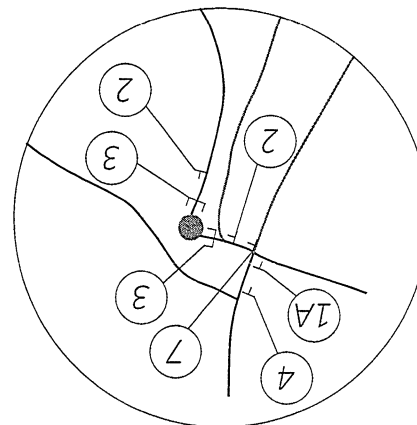
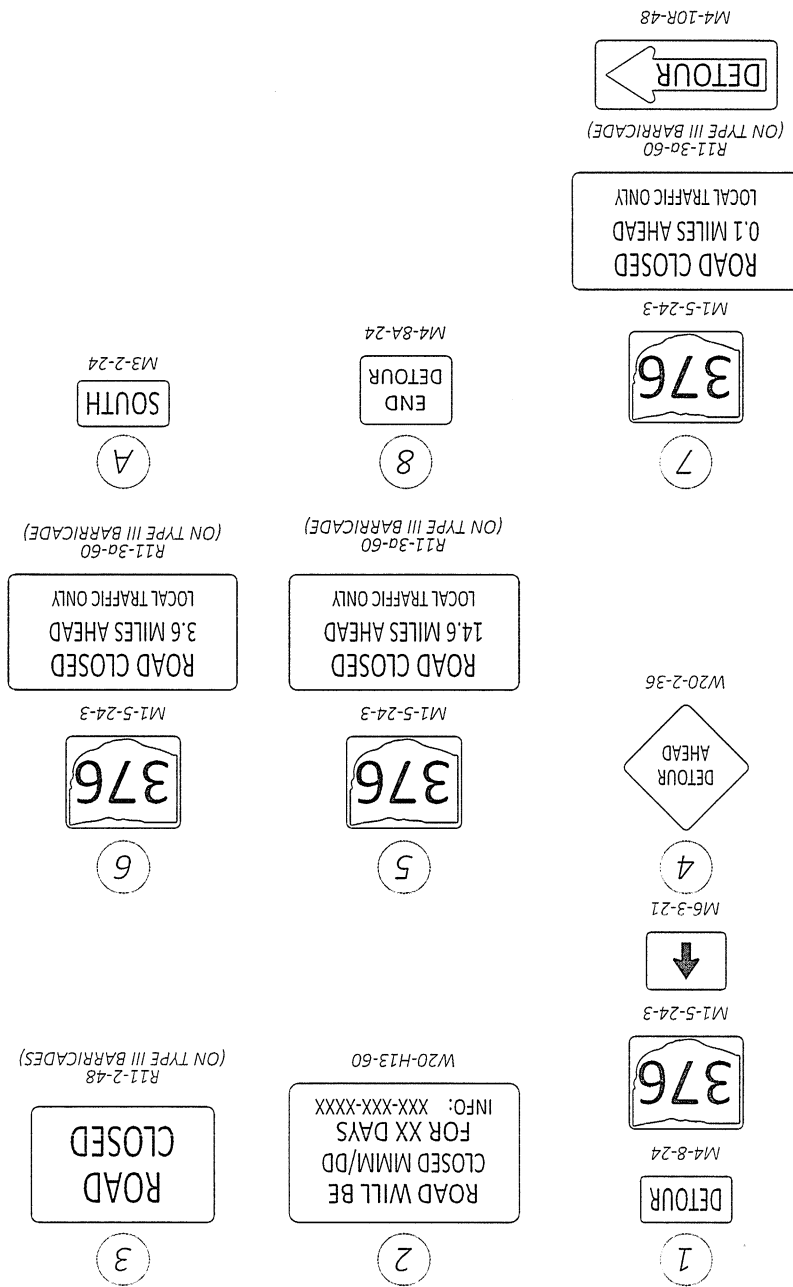
DESIGNER  
GPM  
REVIEWER  
PROJECT ID  
115989  
SHEET TOTAL  
P.11 28

**MAINTENANCE OF TRAFFIC NOTES**

MOT DETOUR MAP



ND  
 DETOUR ROUTE  
 DETOUR ROUTE  
 CT LOCATION





CALCULATIONS

*ESTIMATED PAVEMENT MARKING QUANTITIES*

ITEM	ITEM EXT	UNIT	TOTAL	ITEM DESCRIPTION
621	00100	EACH	2	RPM
621	54000	EACH	2	RAISED PAVEMENT MARKER REMOVED
642	00104	MILE	0.09	EDGE LINE, 6", TYPE 1
642	00300	MILE	0.01	CENTER LINE, TYPE 1

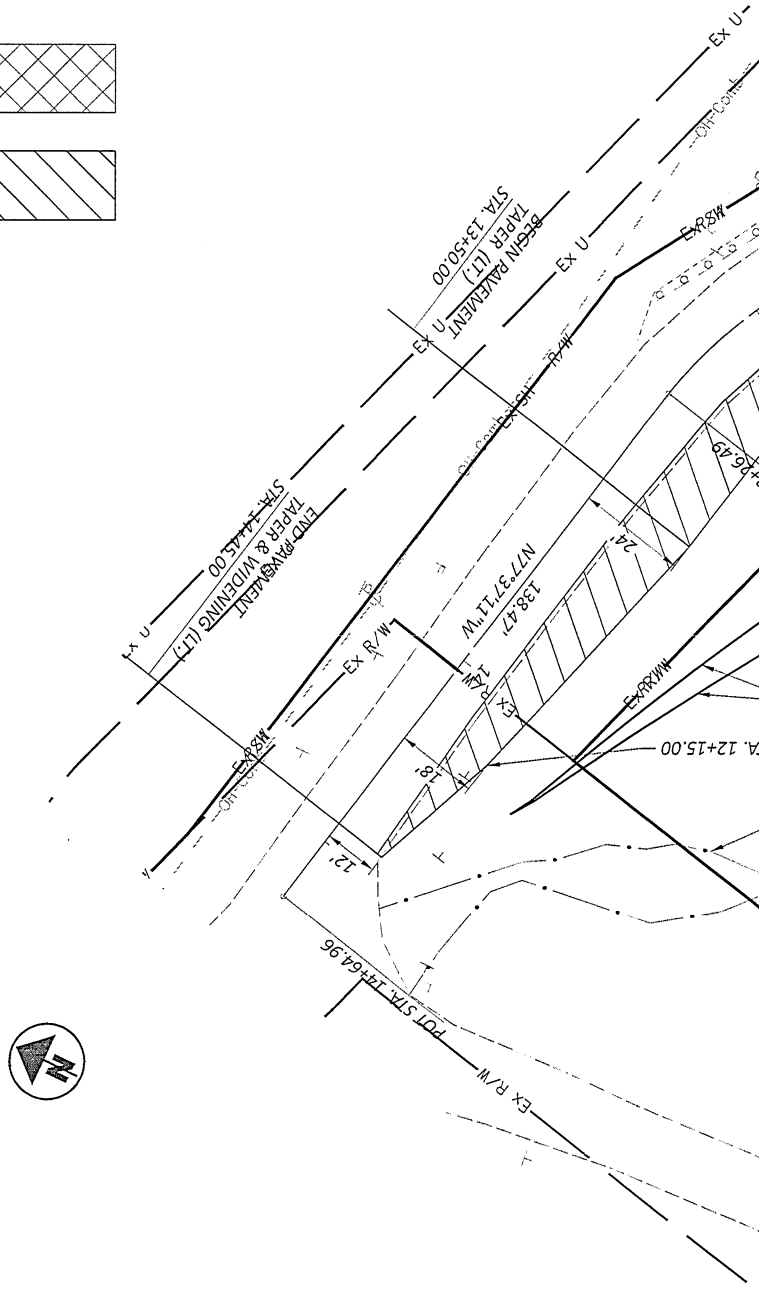
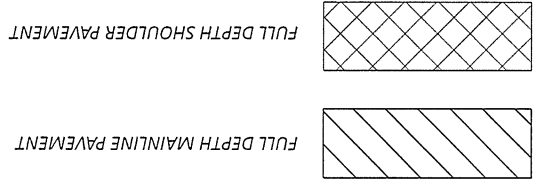
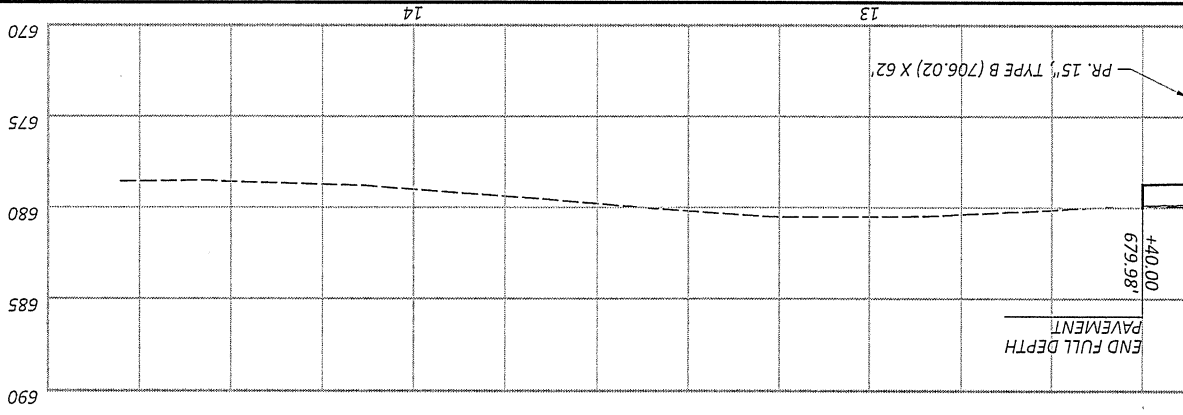
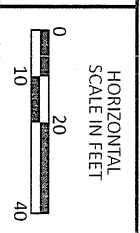
*QUANTITIES CARRIED TO GENERAL SUMMARY*

*ESTIMATED ROADWAY QUANTITIES*

ITEM	ITEM EXT	UNIT	TOTAL	ITEM DESCRIPTION
202	23000	SY	92	PAVEMENT REMOVED
202	38000	FT	25	GUARDRAIL REMOVED
202	56000	LS	LS	BUILDING DEMOLISHED, 1 STORY HOUSE & SHED
202	66000	EACH	1	SPECIAL - DRILLED WATER WELL ABANDONED
204	10000	SY	558	SUBGRADE COMPACTION
301	56000	CY	92	ASPHALT CONCRETE BASE, PG64-22 (449)
304	20000	CY	92	AGGREGATE BASE
407	20000	GAL	66	NON-TRACKING TACK COAT
408	10001	GAL	22	PRIME COAT, AS PER PLAN
441	50000	CY	19	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG 64-22
441	50300	CY	27	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)
606	13030	FT	25	GUARDRAIL, TYPE 5, USING 9 FOOT POSTS
609	26000	FT	383	CURB, TYPE 6
617	10101	CY	1	COMPACTED AGGREGATE, AS PER PLAN

*QUANTITIES CARRIED TO GENERAL SUMMARY*

PLAN AND PROFILE - S.R. 376  
 STA. 10+00 - STA. 14+64.96

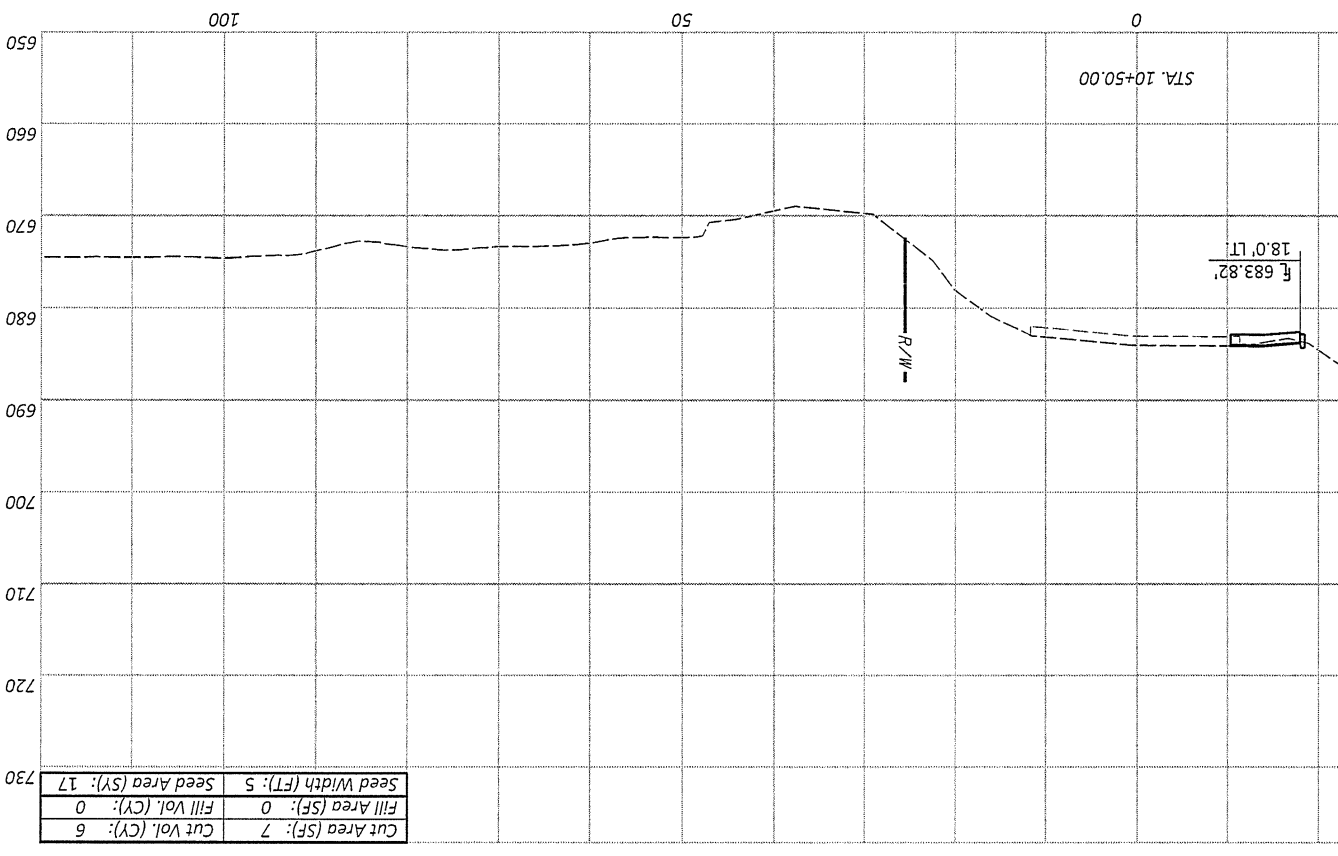
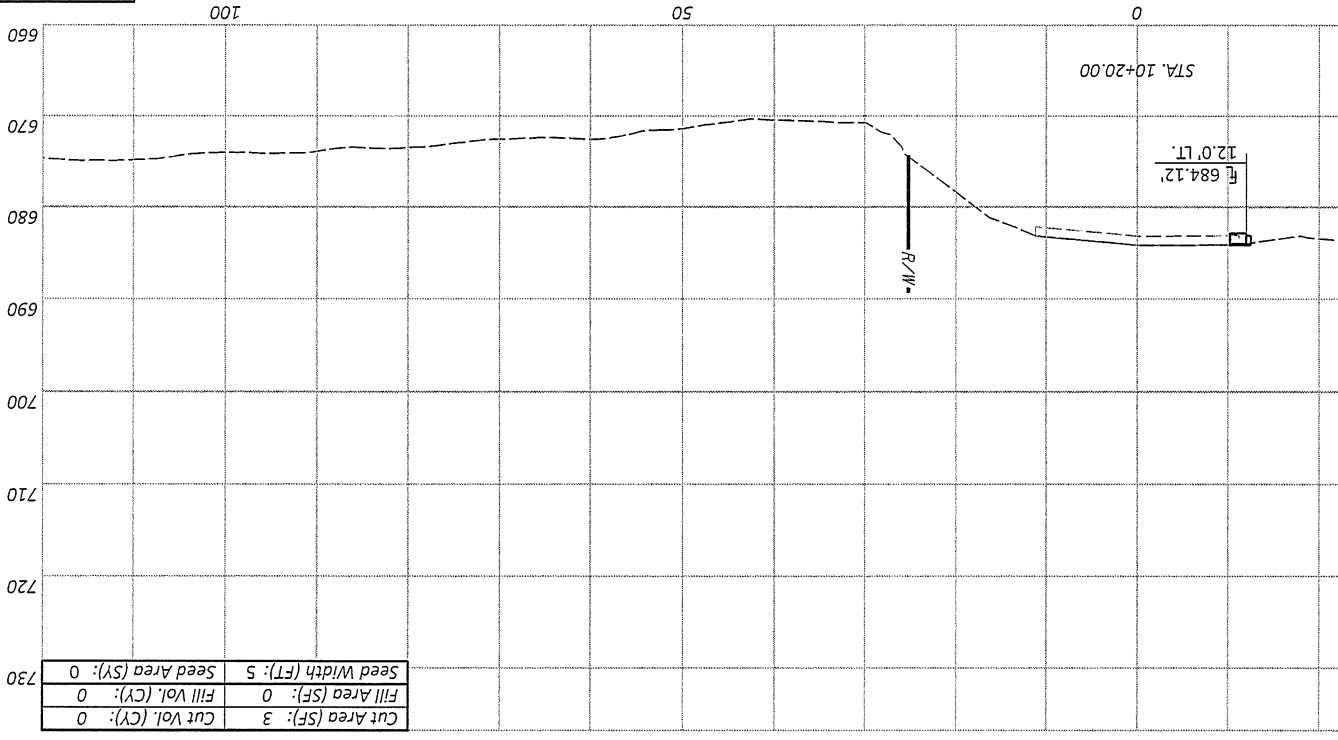


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Sheet Totals	Seeding Cut Fill
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DESIGNER  
GPM

REVIEWER

DESIGN AGENCY



CROSS SECTIONS - S.R. 376  
STA. 10+20 - STA. 10+50



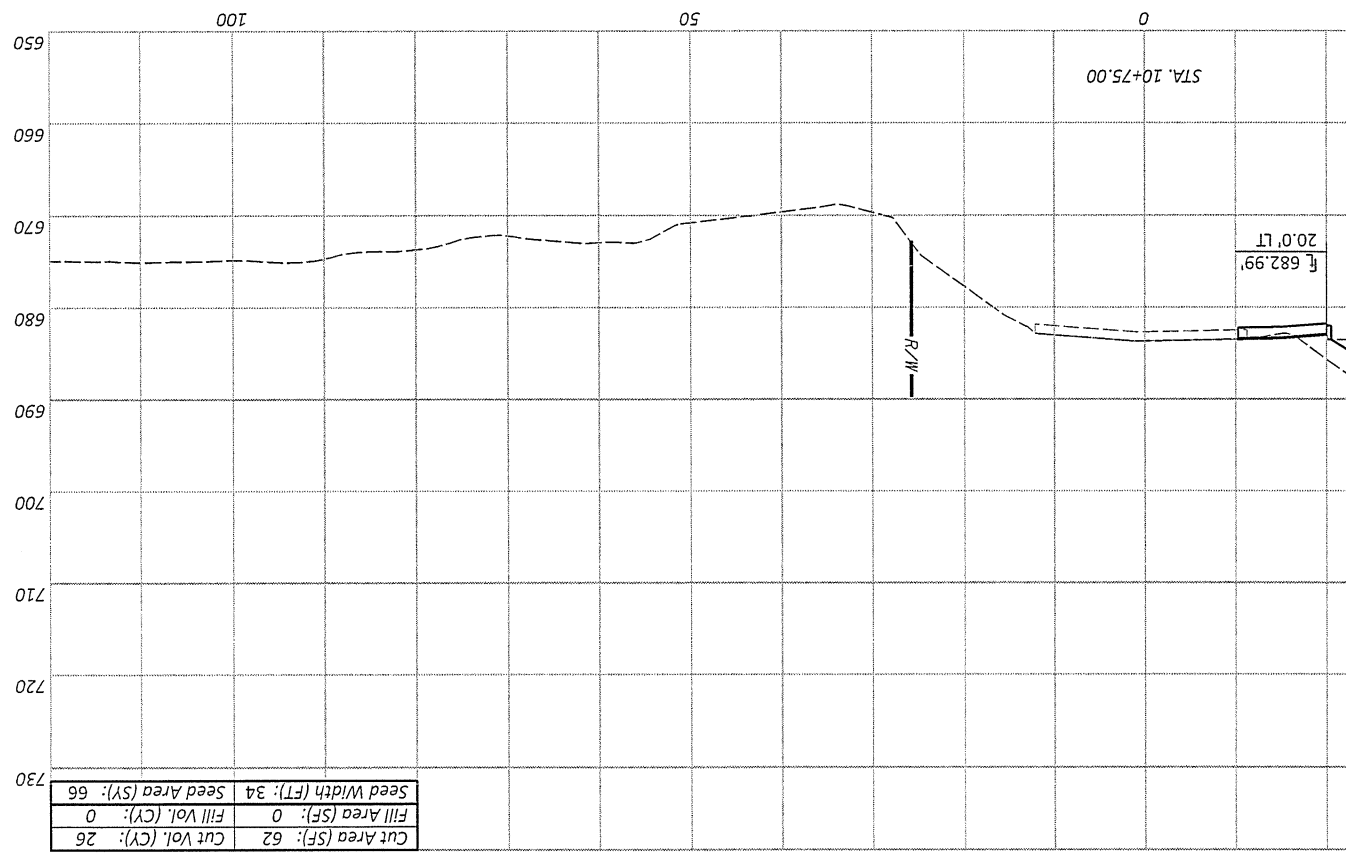
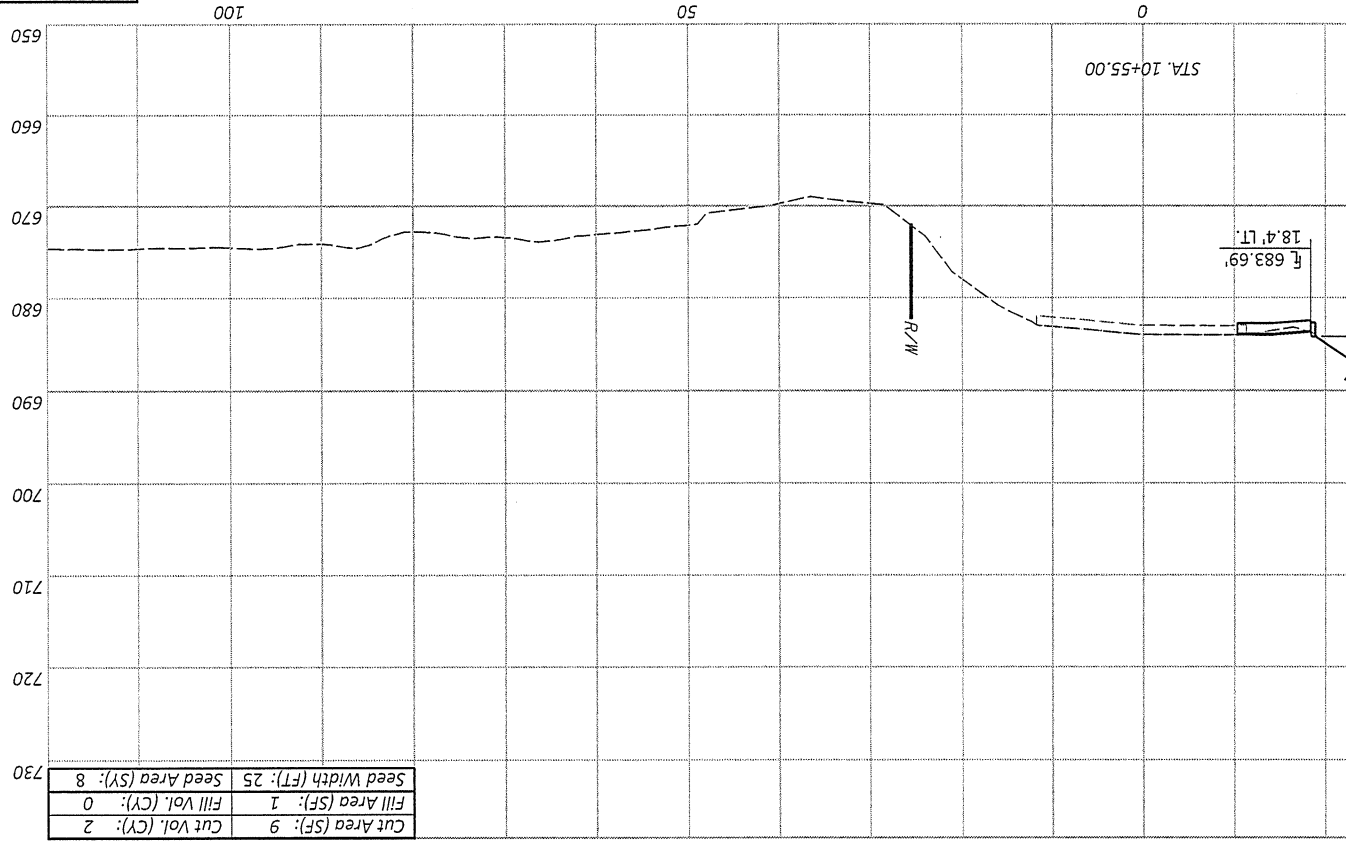
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DESIGNER  
GPM

REVIEWER

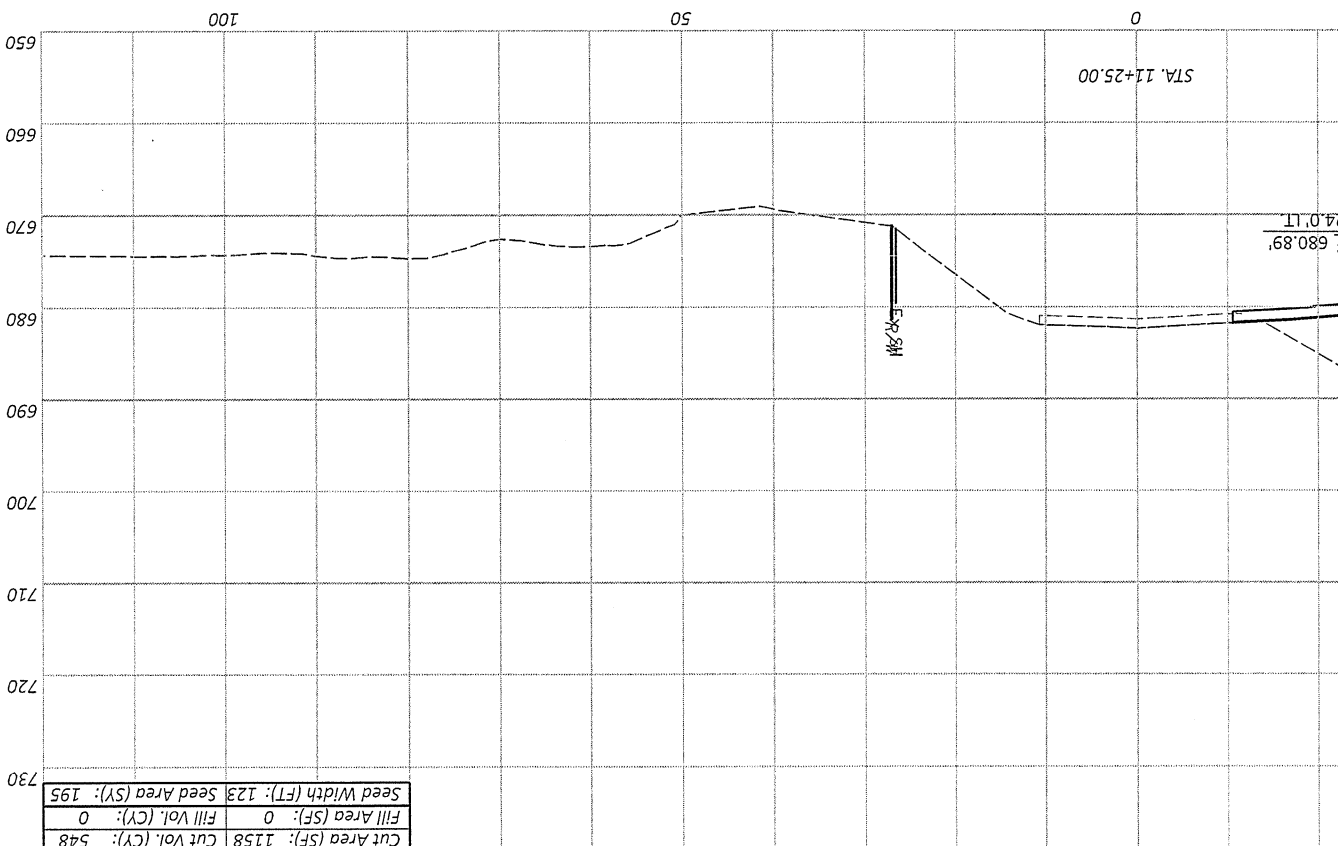
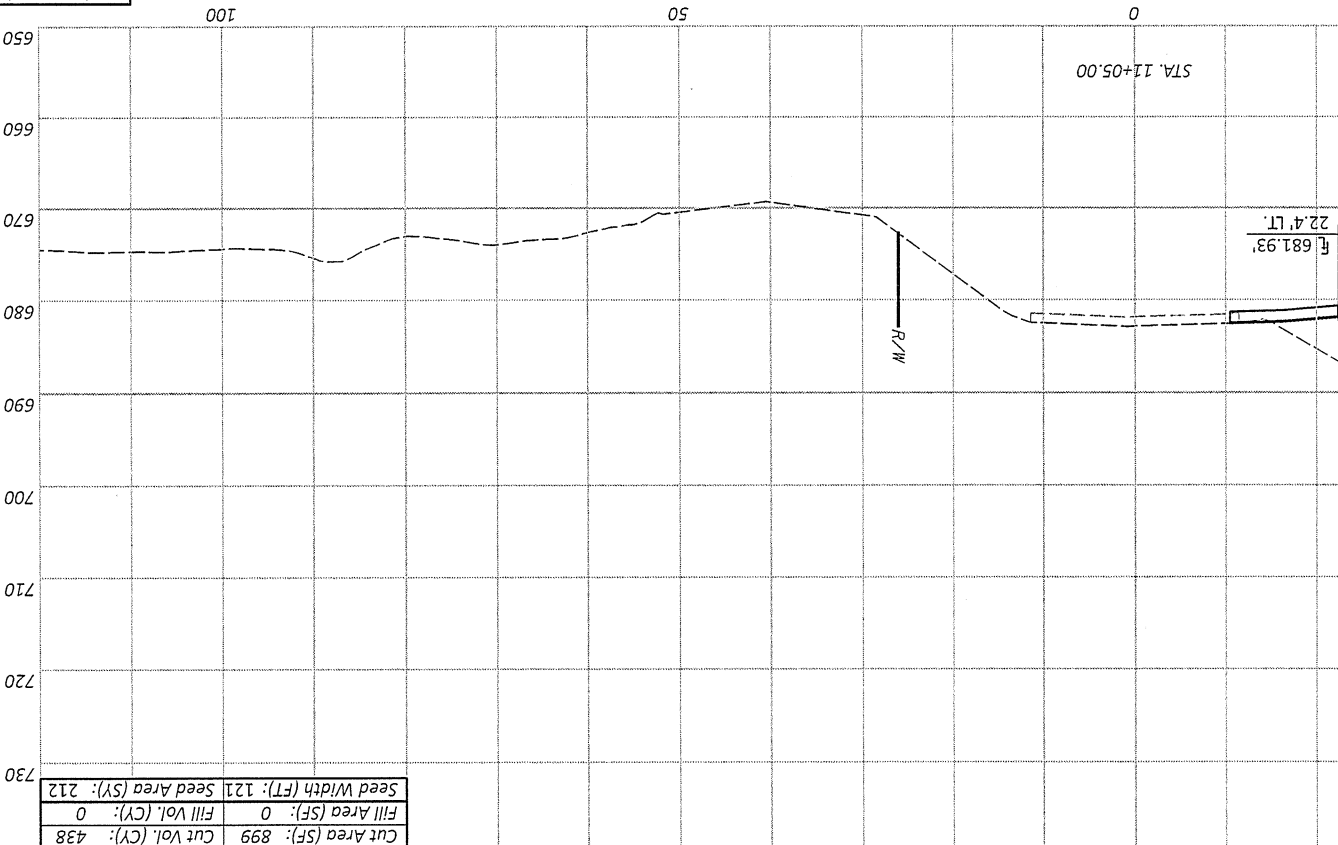


DESIGN AGENCY



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Sheet Totals		
PROJECT ID: 115989		
SHEET TOTAL: P.18 28		



CROSS SECTIONS - S.R. 376  
 STA. 11+05 - STA. 11+25



DESIGN AGENCY

DESIGNER: GPM

REVIEWER:

PROJECT ID: 115989

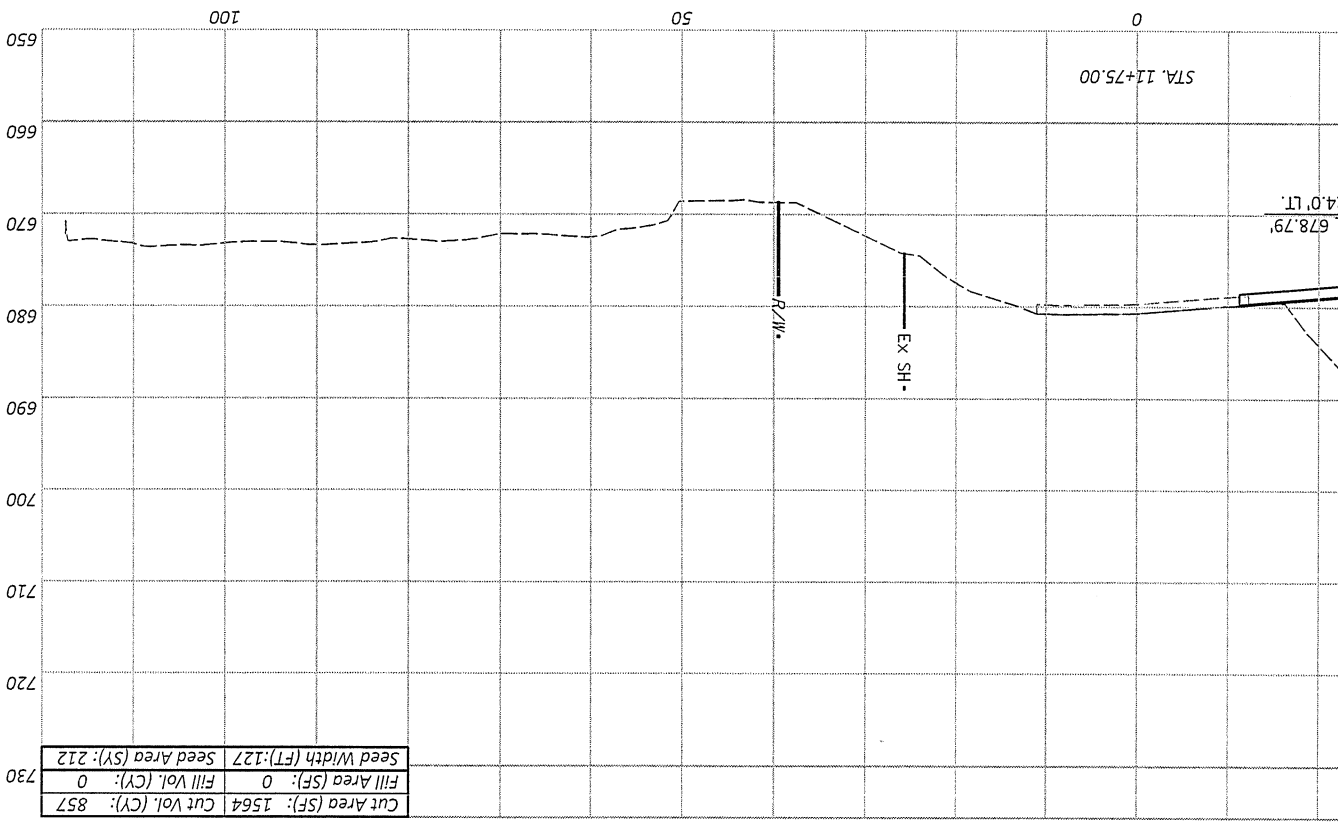
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DESIGNER  
GPM

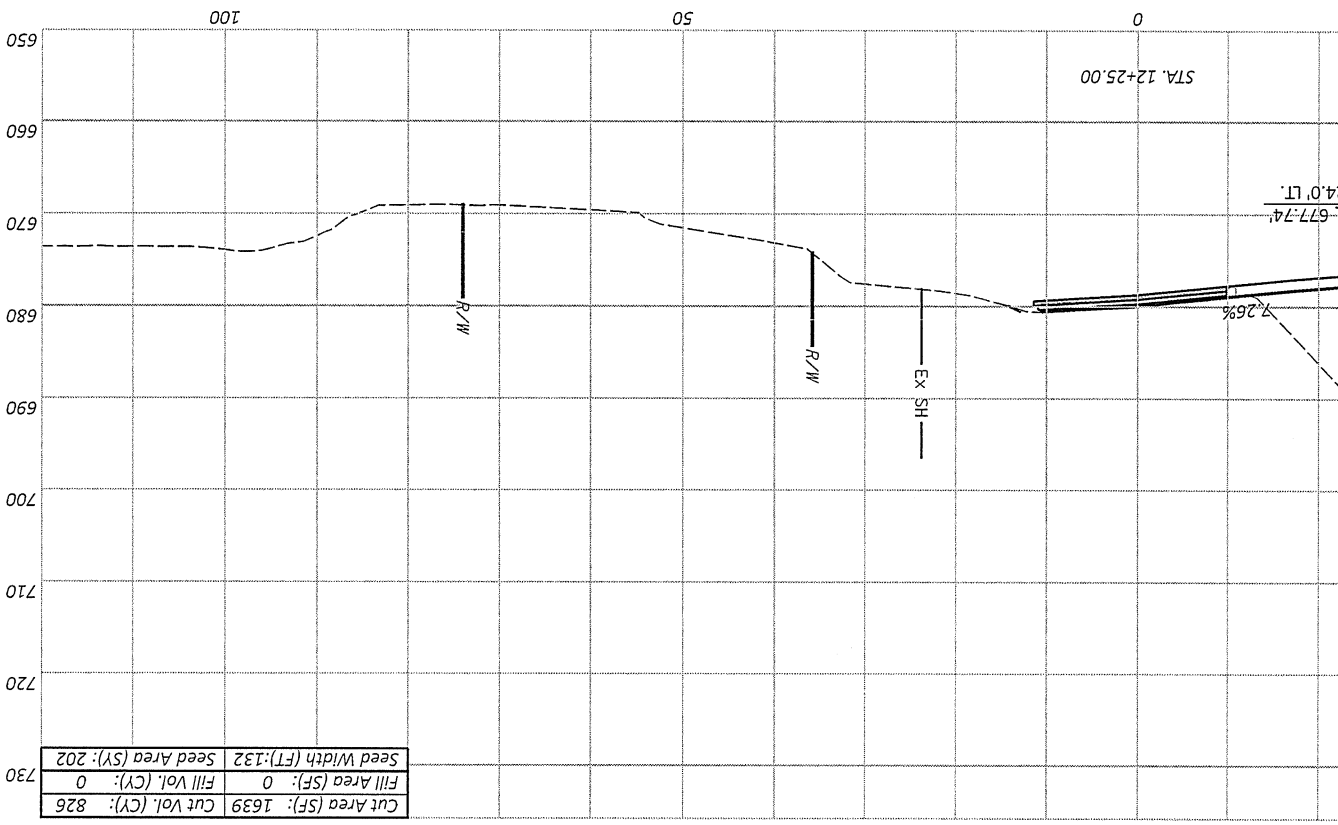
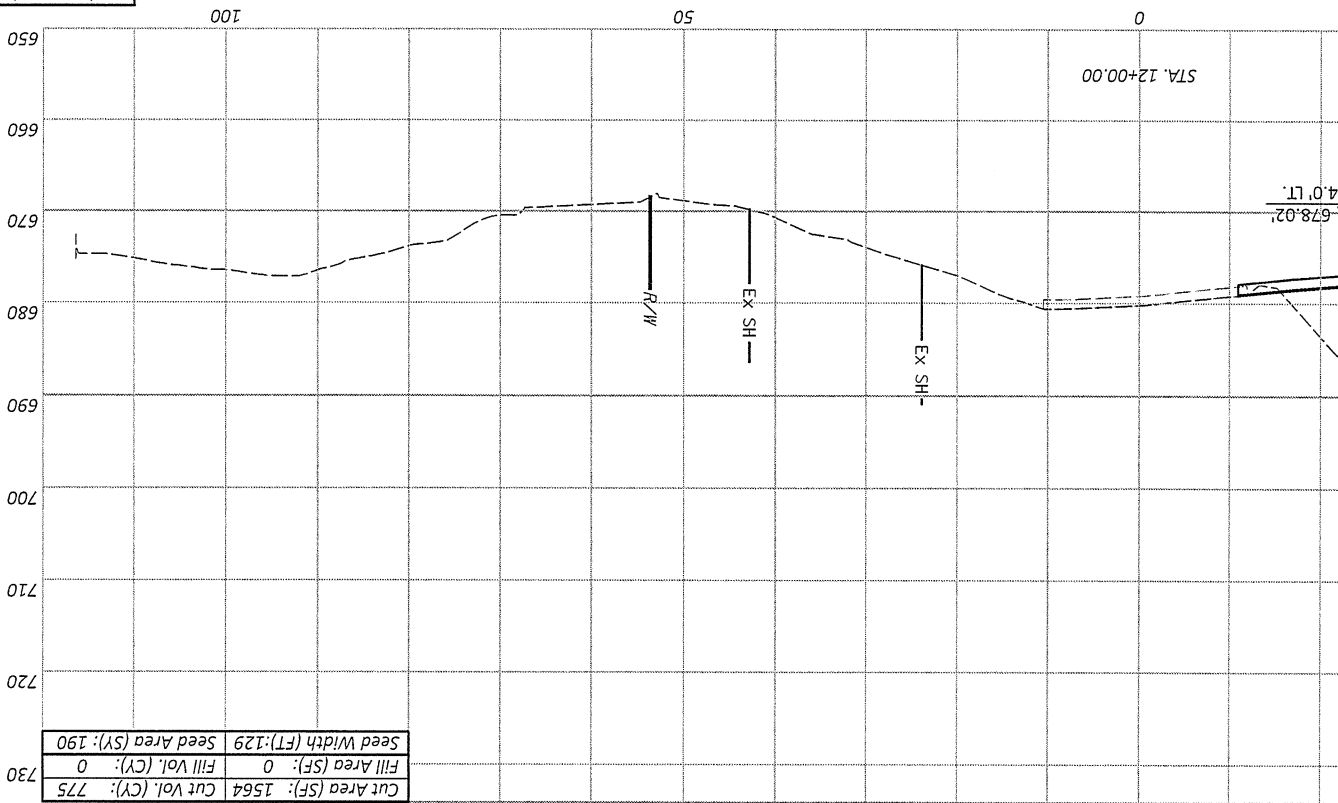


DESIGN AGENCY



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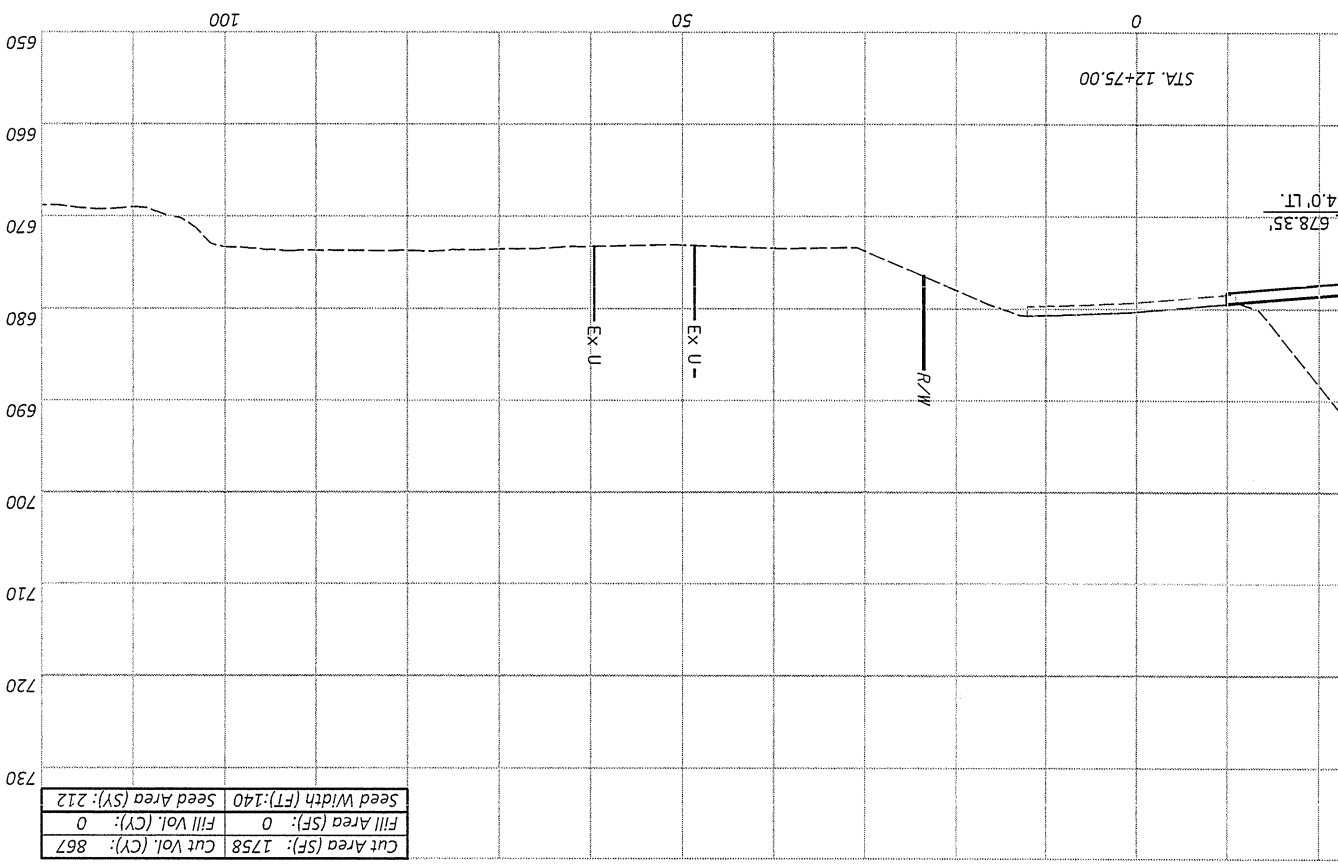
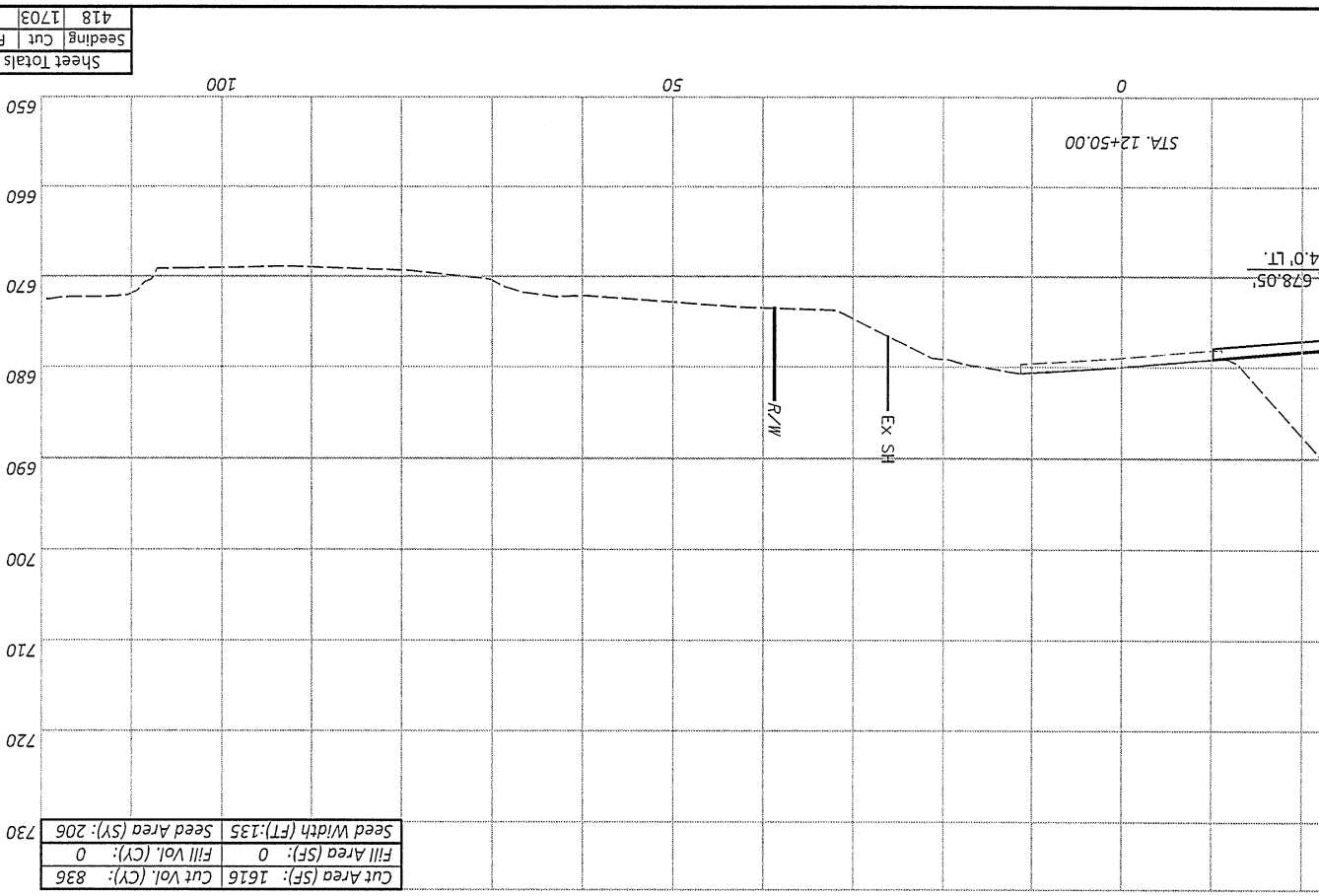
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DESIGNER	GPM
REVIEWER	
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CROSS SECTIONS - S.R. 376  
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DESIGN AGENCY



CROSS SECTIONS - S.R. 376  
 STA. 12+50 - STA. 12+75

DESIGN AGENCY

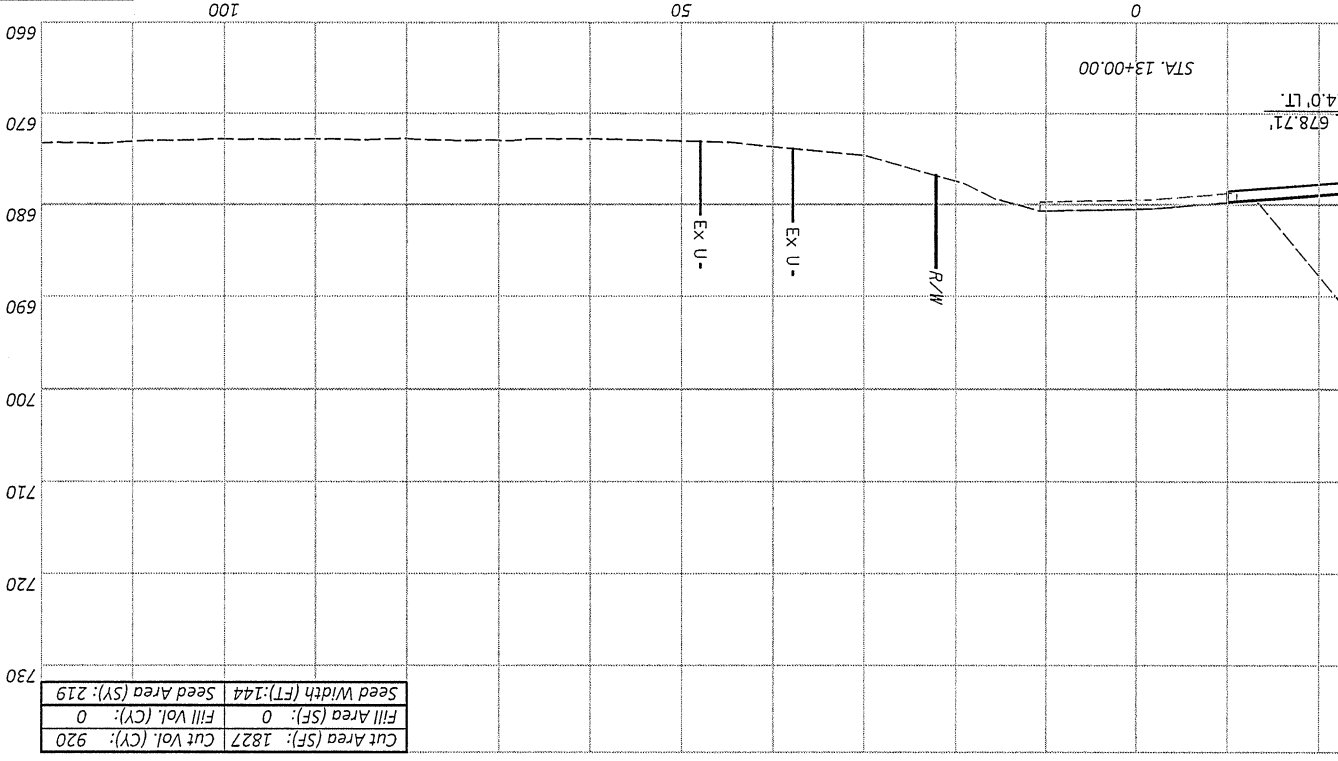
DESIGNER  
GPM

REVIEWER

PROJECT ID  
115989

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Sheet Totals	Seeding Cut Fill
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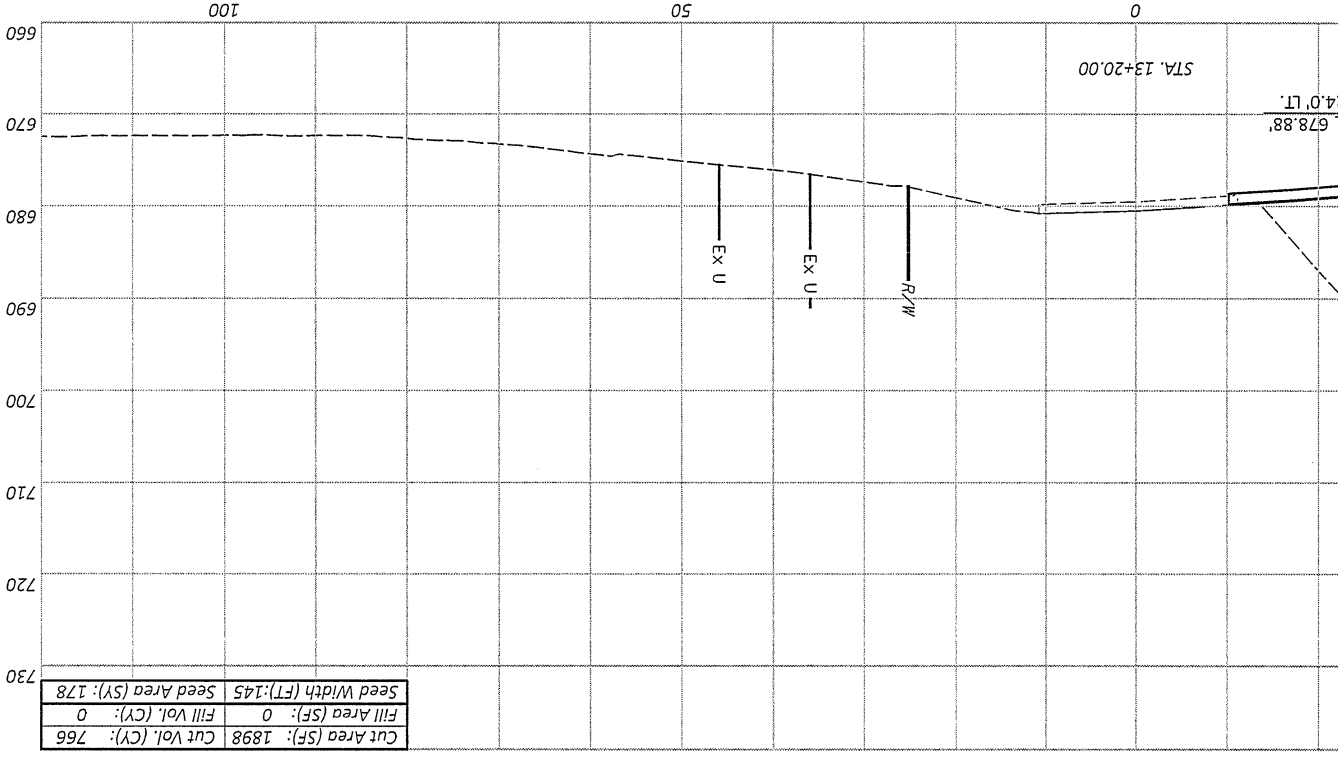


DESIGNER  
GPM

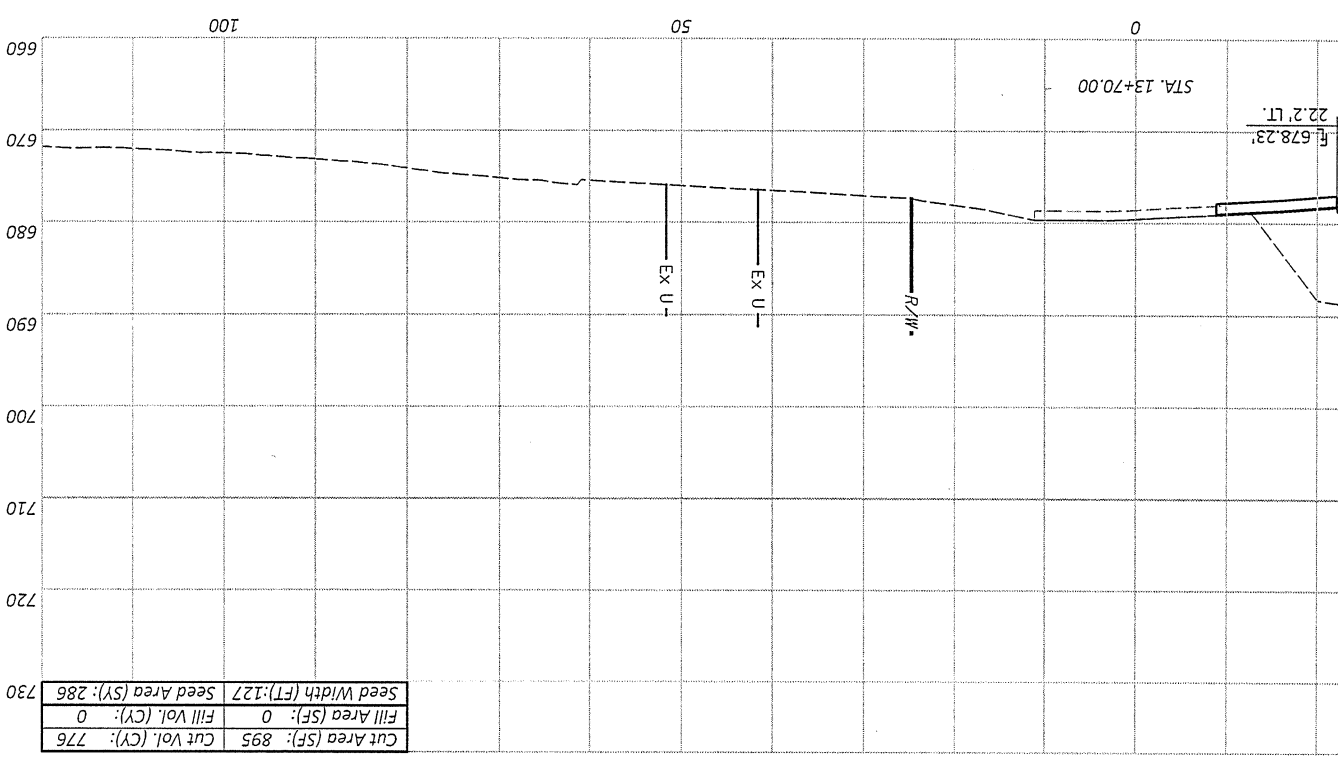
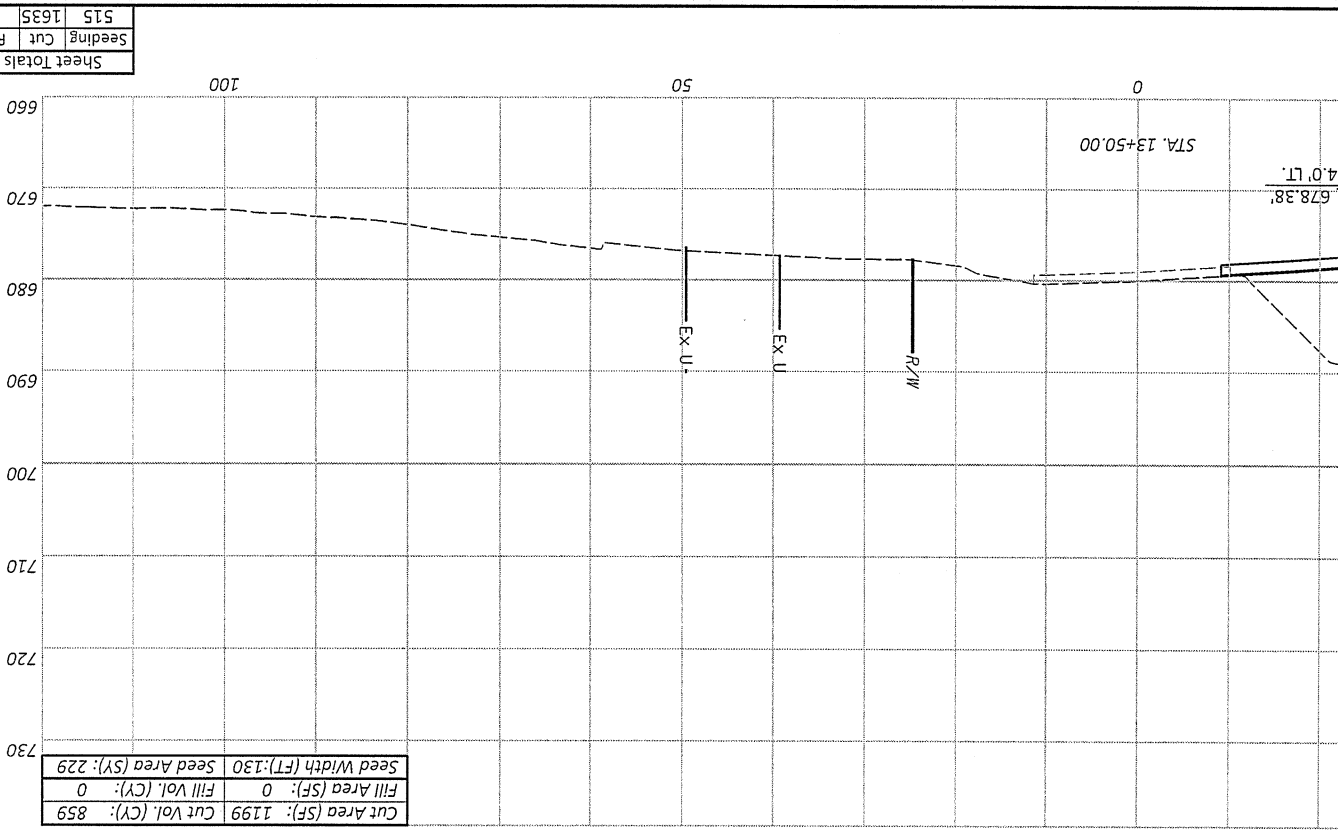
REVIEWER



DESIGN AGENCY



CROSS SECTIONS - S.R. 376  
STA. 13+00 - STA. 13+20



CROSS SECTIONS - S.R. 376  
STA. 13+50 - STA. 13+70

DESIGN AGENCY

DESIGNER  
GPM  
REVIEWER

PROJECT ID  
115989

SHEET TOTAL  
P. 23 | 28

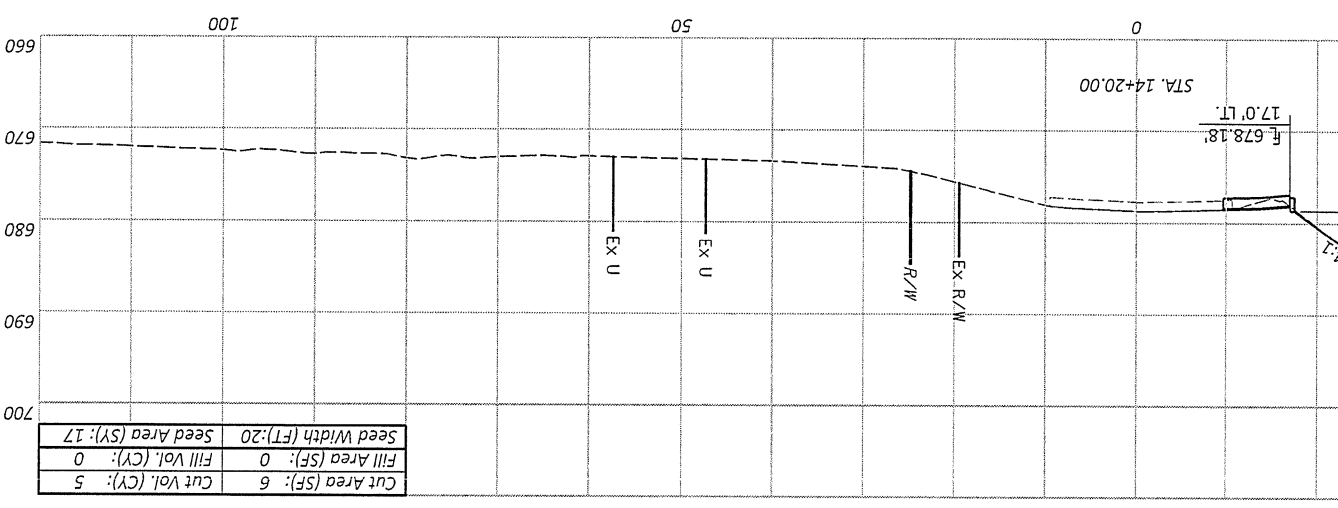
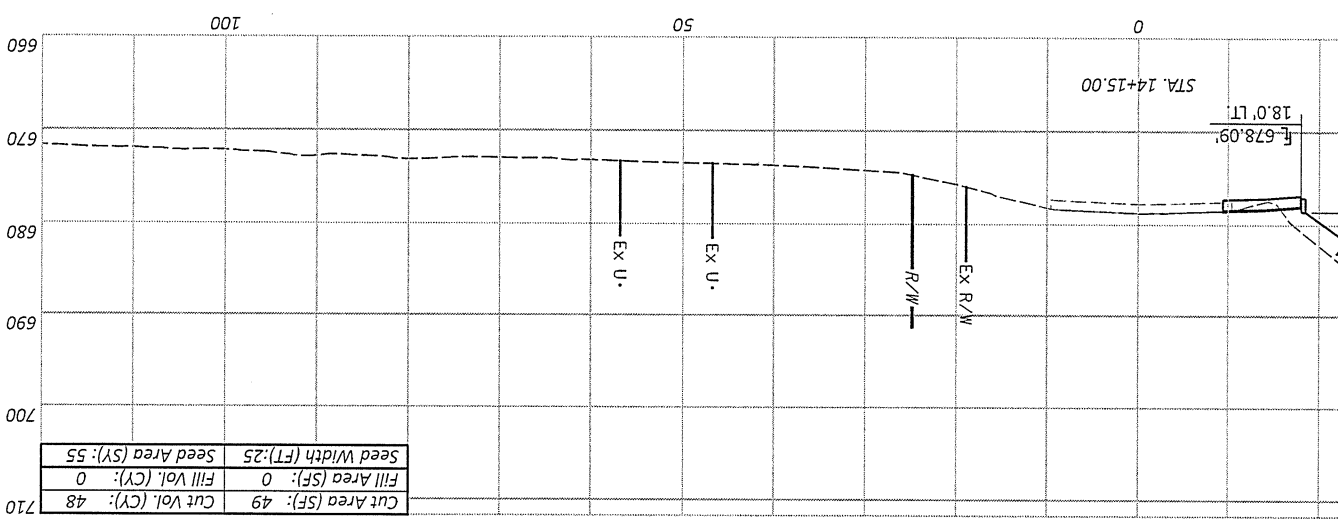
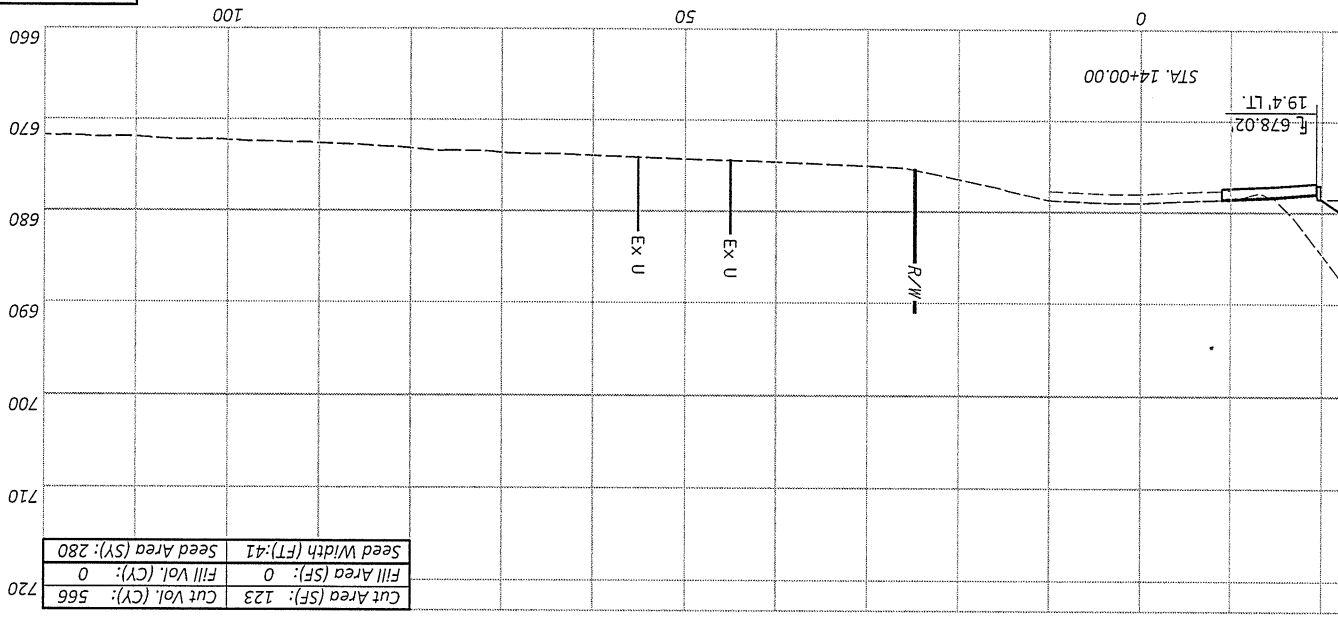
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PROJECT ID	115989
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DESIGNER  
GPM

REVIEWER

DESIGN AGENCY




CROSS SECTIONS - S.R. 376  
STA. 14+00 - STA. 14+20



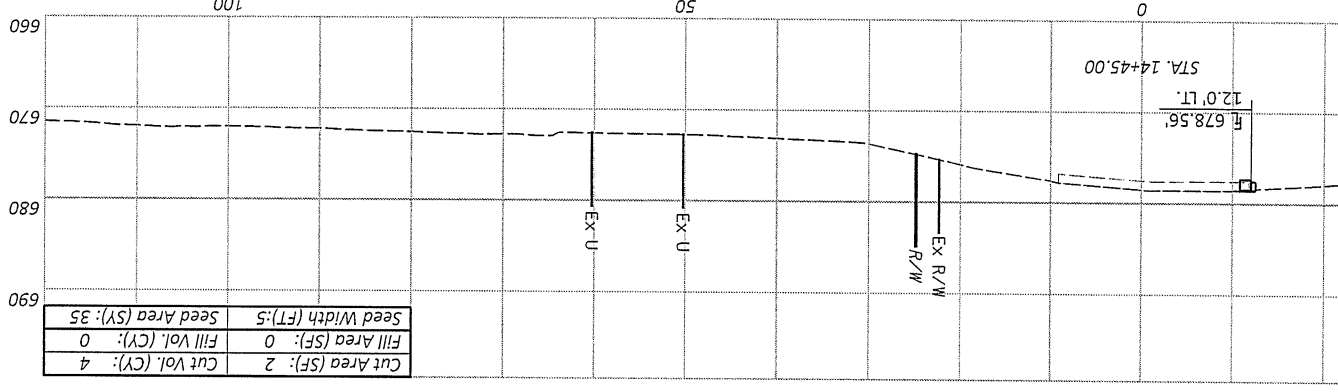
PROJECT ID	115989
SHEET TOTAL	P.25 28
Sheet Totals	Seeding 35 Cut 4 Fill 0

DESIGNER  
GPM

REVIEWER



DESIGN AGENCY



HWORK TOTALS

STATION	FILL (CY)	SEEDING (SY)
17	0	17
74	0	74
407	0	407
515	0	515
392	0	392
418	0	418
397	0	397
515	0	515
478	0	478
397	0	397
515	0	515
407	0	407
74	0	74
17	0	17
TOTAL	0	3122

ES CARRIED TO SHEET 5

CNS DUE TO ROADWAY CURVATURE

STATION	CUT AREA (SF)	SEEDING WIDTH (FT)	CORRECTED CUT VOLUME (CY)	CORRECTED SEED AREA (SY)
24.62	899	121	438	212
14.39	1158	123	548	195
21.89	1497	126	1076	303
15.11	1564	127	857	212
13.39	1564	129	775	190
13.93	1639	132	826	202
13.88	1616	135	836	206
13.88	1758	140	867	212
13.86	1827	144	920	219
11.11	1898	145	766	178
14.97	1199	130	859	229

CROSS SECTIONS - S.R. 376  
STA. 14+45



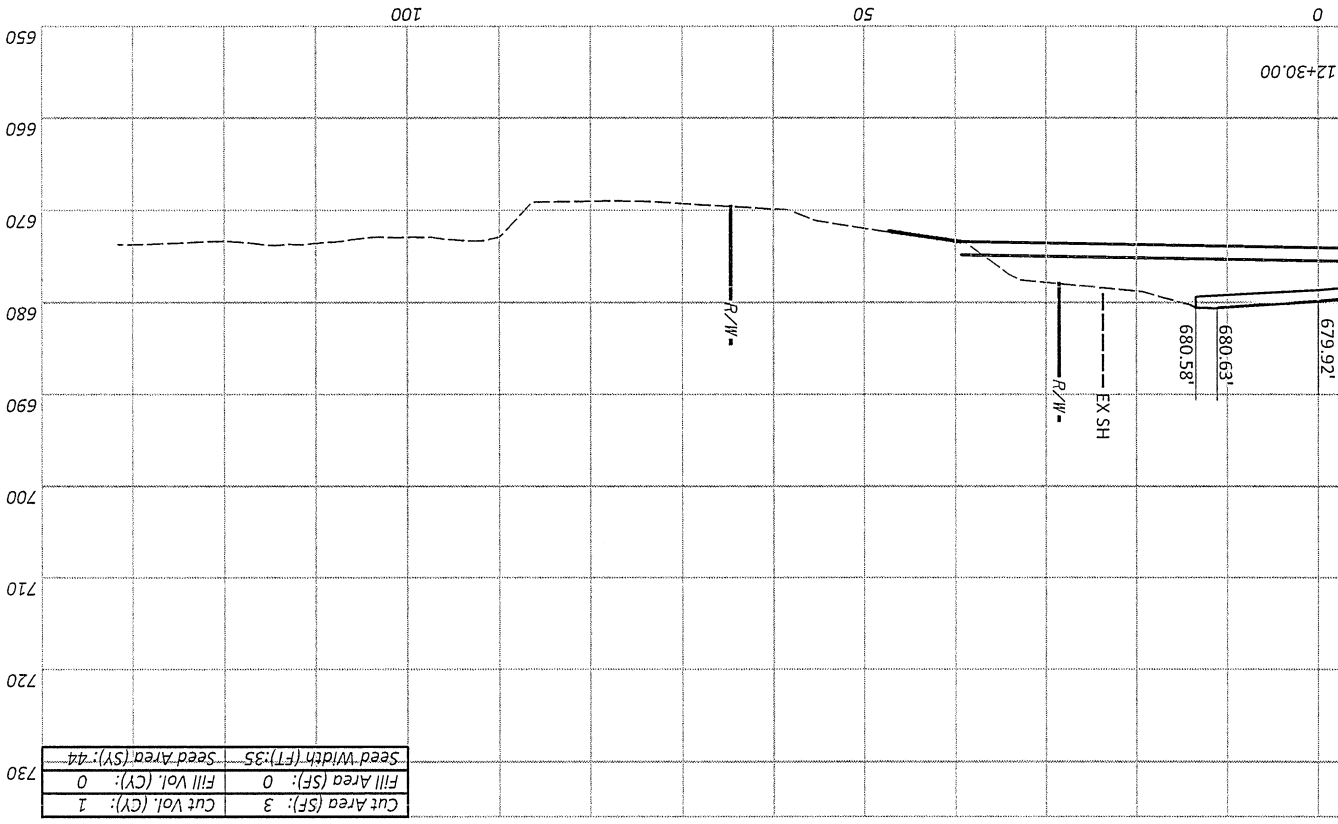
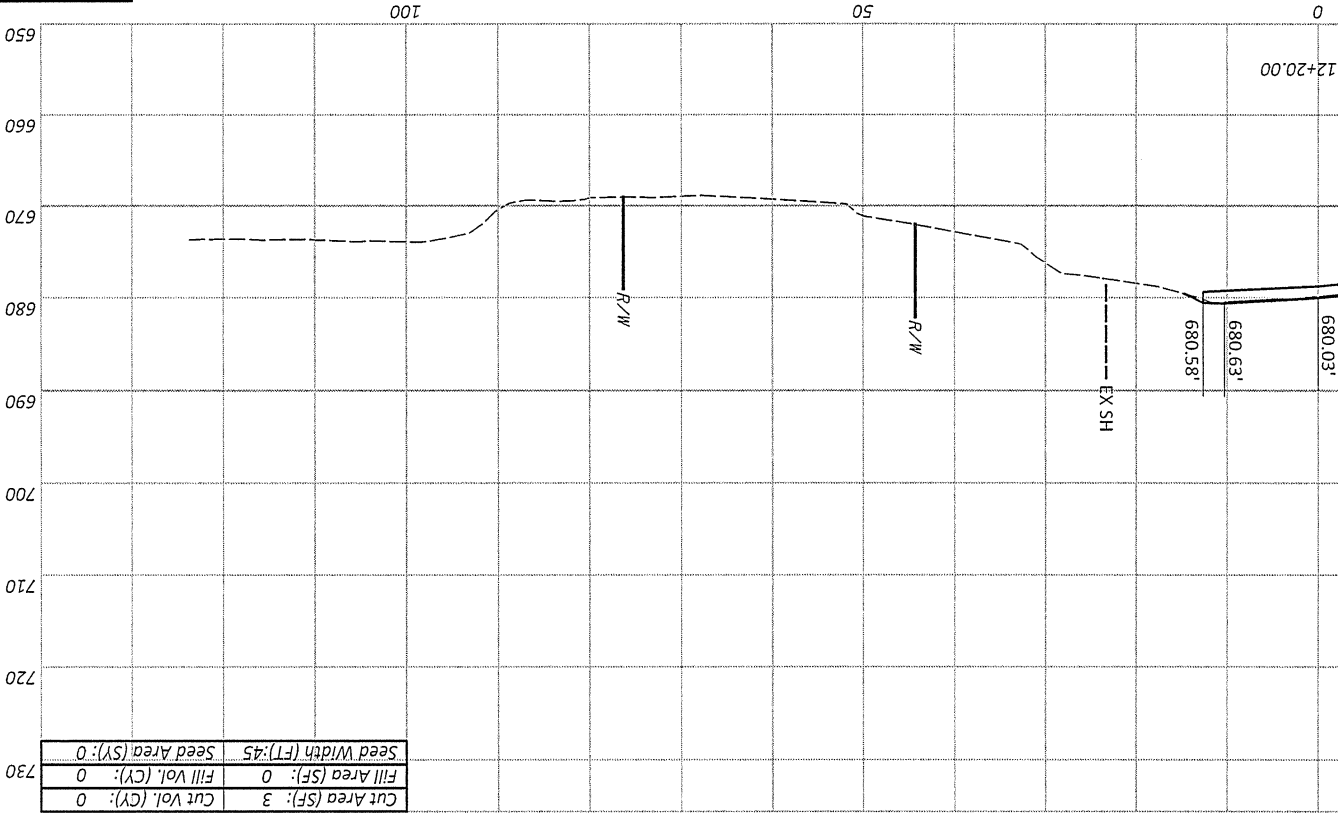
PROJECT ID	115989
SHEET TOTAL	P.27 28
Sheet Totals	Seeding Cut 1 0
	Fill 44 1 0

DESIGNER  
GPM

REVIEWER

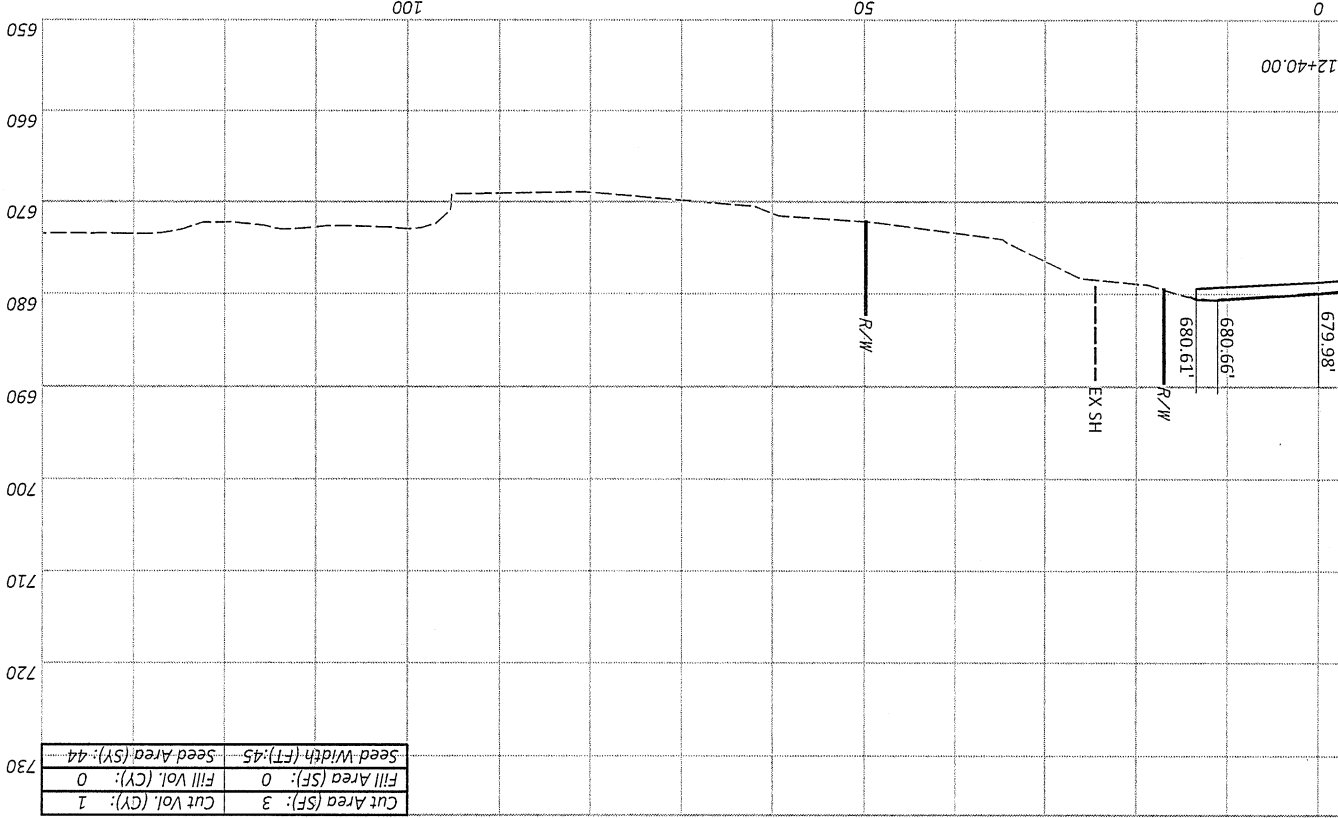


DESIGN AGENCY



CROSS SECTIONS FOR CULVERT INSTALLATION - S.R. 376  
STA. 12+20 - STA. 12+30

44	1	0
Seeding	Cut	Fill
115989	Sheet Totals	
PROJECT ID	TOTAL	
DESIGNER	P.28 28	



Cut Area (SF): 3	Cut Vol. (CY): 1
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): 45	Seed Area (SY): 44

HWK TOTALS		
SEEDING (SY)	FILL (CY)	CUT (CY)
44	0	0
44	0	0
88	0	0

ES CARRIED TO SHEET 5

CROSS SECTIONS FOR CULVERT INSTALLATION - S.R. 376  
STA. 12+40



DESIGN AGENCY

DESIGNER  
GPM

REVIEWER

PROJECT ID  
115989

SHEET TOTAL

P.28 28