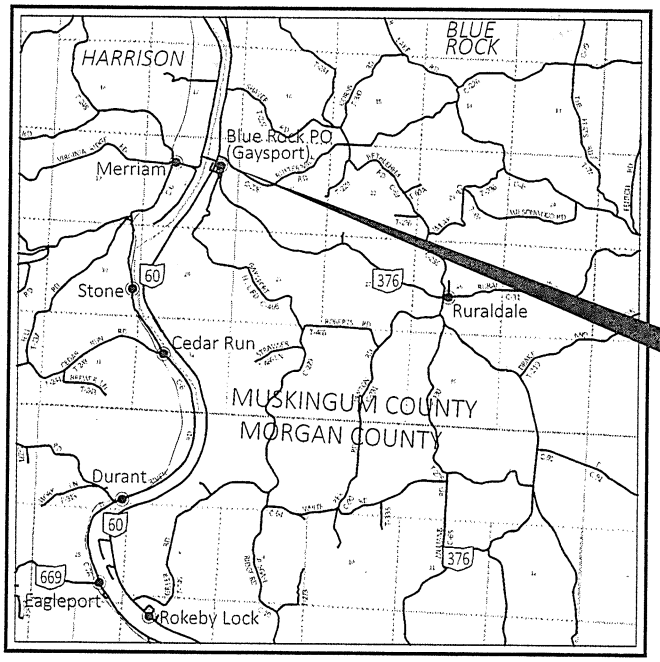
STATE O
DEPARTMENT OF T

MUS - 3

BLUE ROCK

MUSKINGU



LOCATION MAP

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

N

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

INDEX OF SHEETS:

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

STANDARD CONSTRUCTION DRAWIN

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 PAPERSIZE: 34x22 (in.) DATE: 6/6/2023 TIME: 7:54:44 AM USER: gmolsche
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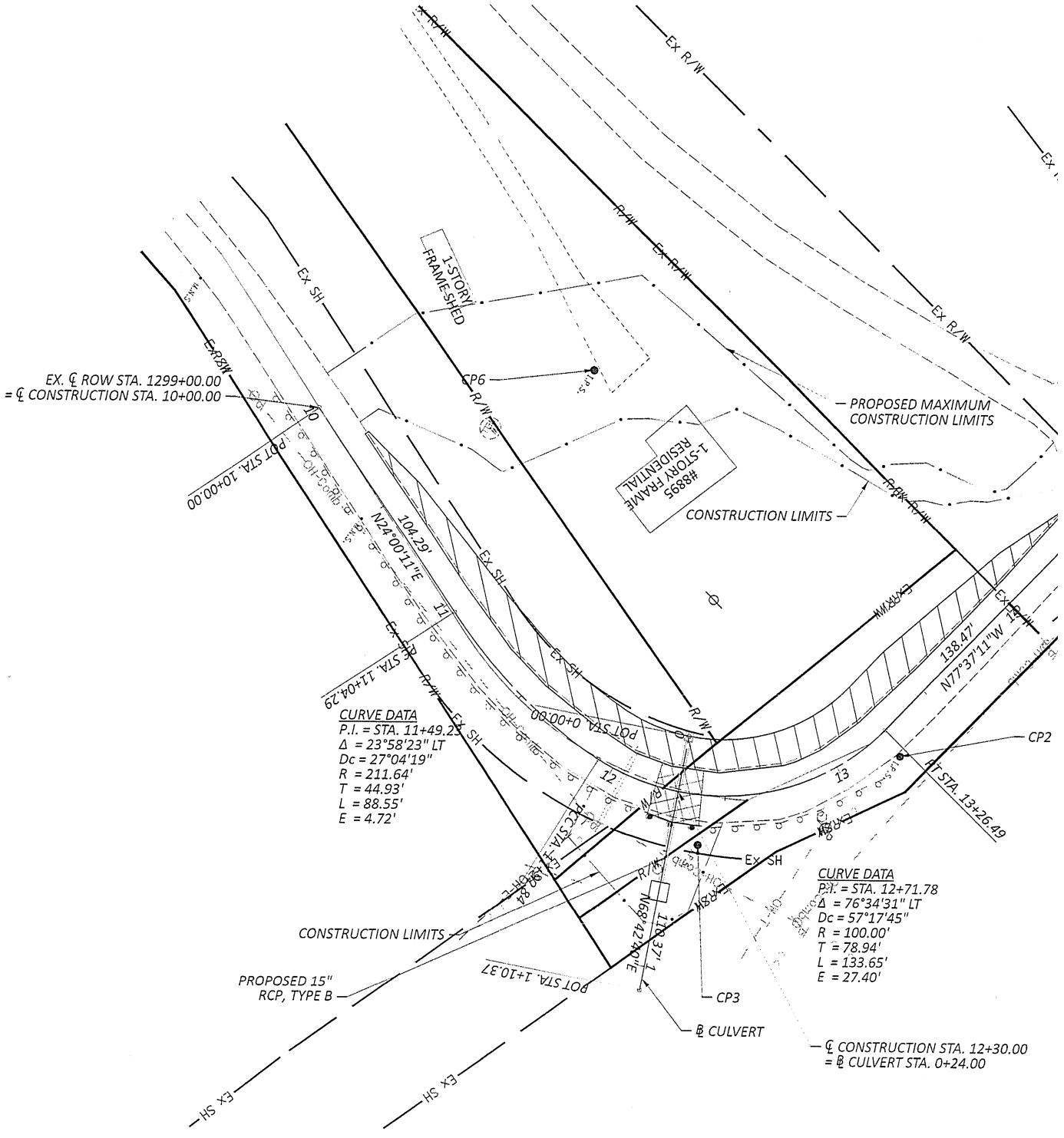
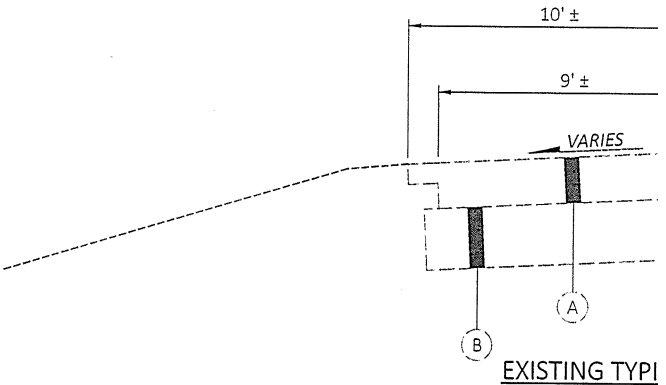
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 05\Muskingum\115989\400-Engineering\Roadway\Sheets\115989_GB001.dgn



LEGEND

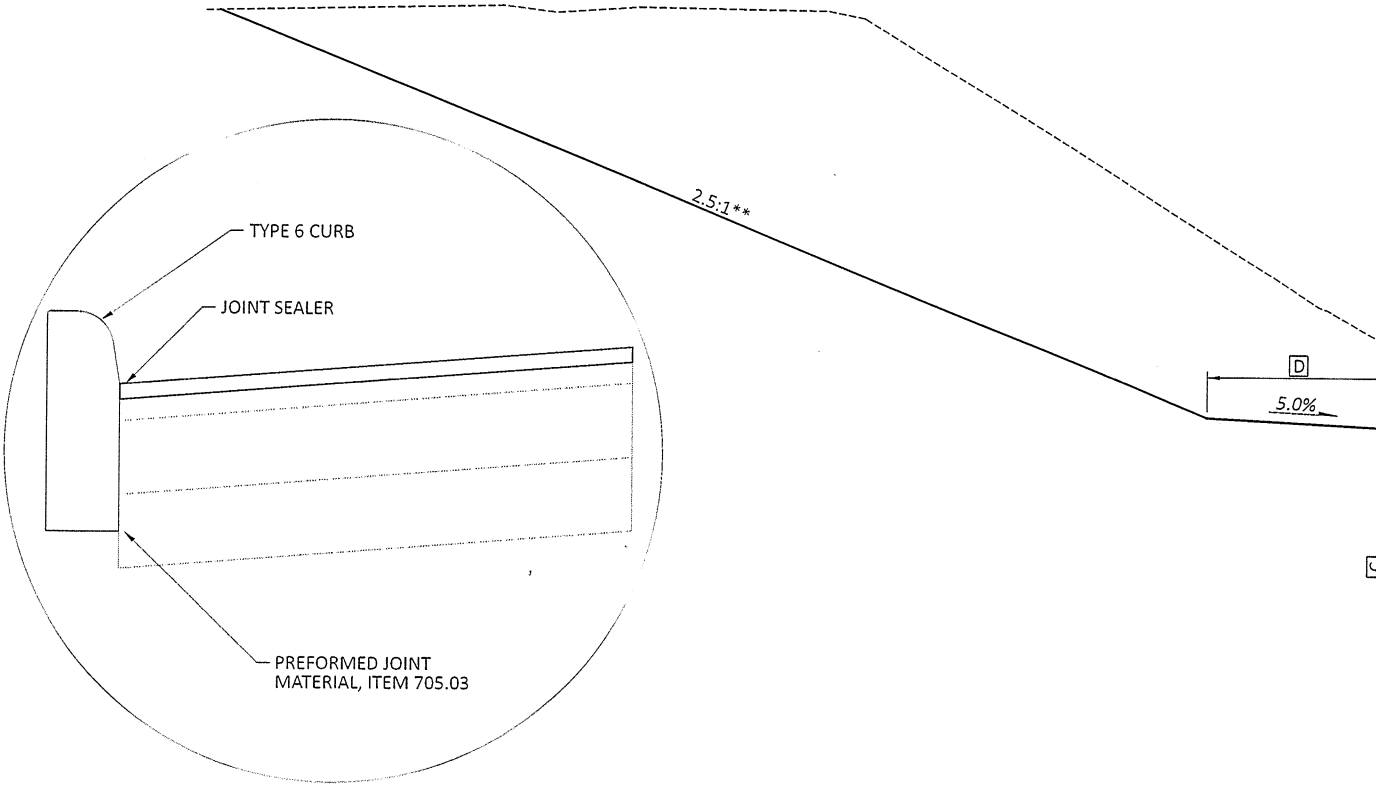
(A) EX. ASPHALT CONCRETE (UNKNOWN DEPTH)

(B) EX. AGGREGATE BASE (UNKNOWN DEPTH)



EXISTING TYPI

STA. 1(



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-

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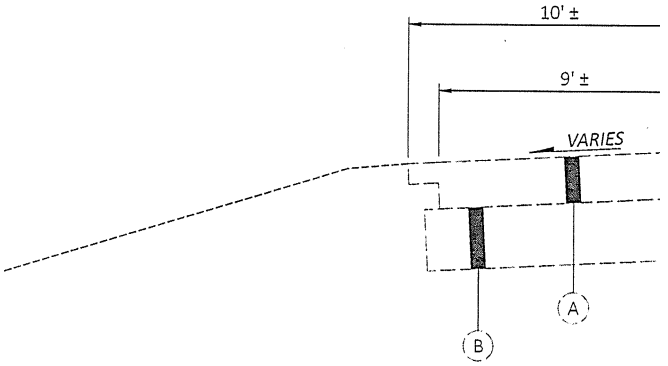
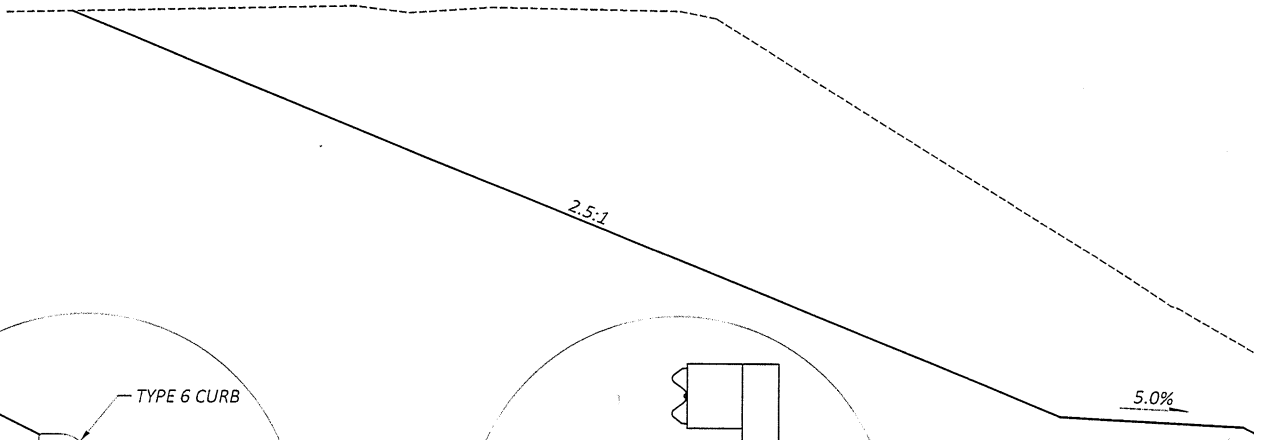
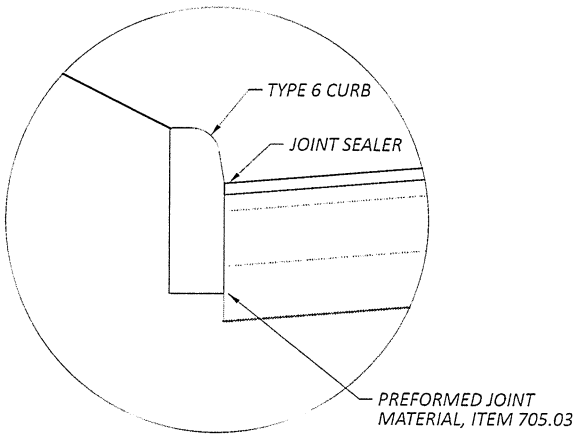


LEGEND

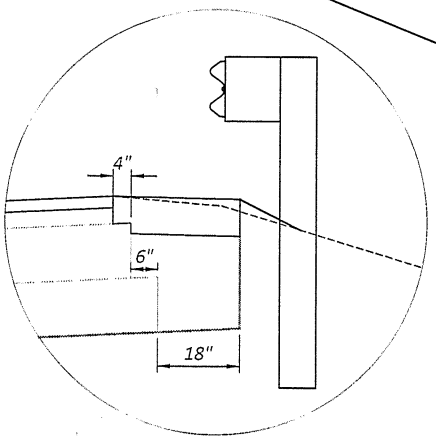
(A) EX. ASPHALT CONCRETE (UNKNOWN DEPTH)
(B) EX. AGGREGATE BASE (UNKNOWN DEPTH)

EXISTING TYPICAL SECTION F
STA. 12





EDGE OF PAVEMENT DETAIL LT. (TYP)



EDGE OF PAVEMENT DETAIL RT. (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 617 COMPACTED AGGREGATE, 8"
(9) ITEM 606 GUARDRAIL, TYPE 5, USING 9 FOOT POSTS

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 VERFICATION

DETAILS AND DIMENSIONS SHOWN ON THE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM THE DESIGN PLANS OF THE EXISITNG PIPE'S ORIGINAL INSTALLATION. CONSEQUENTLY, THEY AREA 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).

NOTES

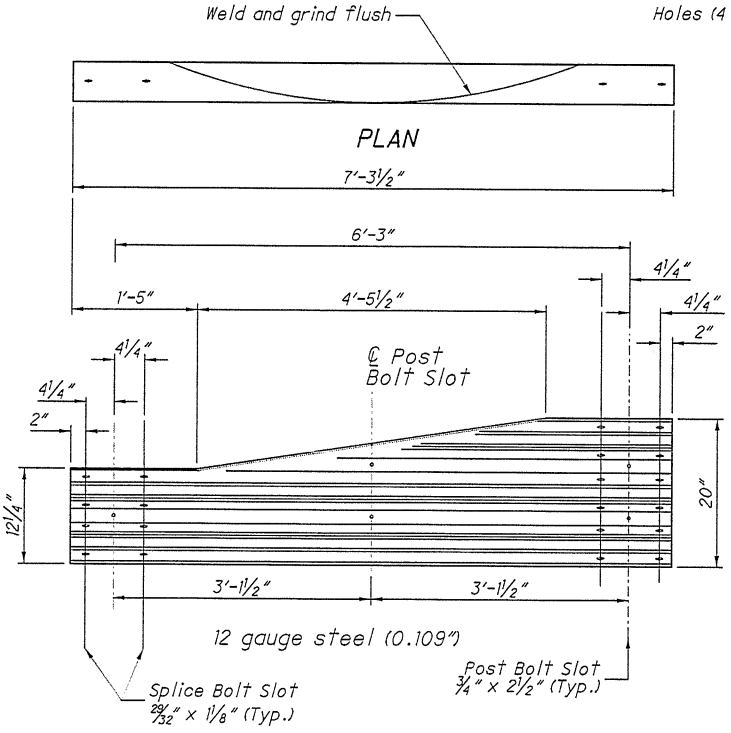
GENERAL: *Components shown on this drawing are used in a variety of guardrail systems. See individual guardrail drawing for specific applications.*

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.

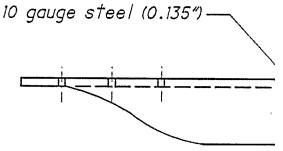
RAIL ELEMENTS: *W-Beam Rail has an effective length of 12'-6" unless otherwise specified, with ¾" x 2½" post bolt slots on 6'-3" centers regardless of post spacing. Field punch or drill bolt holes or slots for irregularly spaced posts as specified in CMS 606.04.*

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.*

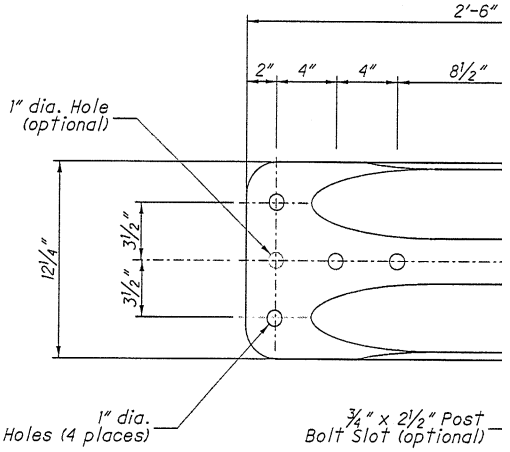


ELEVATION
TYPE 2 TRANSITION SECTION
(Asymmetric W to Thrie-Beam)

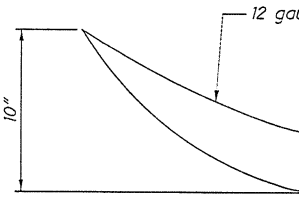
For details of Type 1 Transition Section (Symmetric), refer to AASHTO M 180, Figure 4.

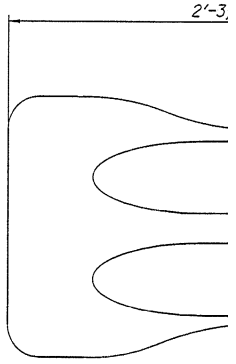


PLA

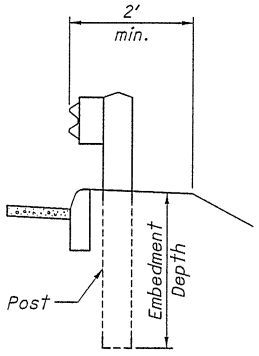


ELEVA
W-BEAM TERMINA



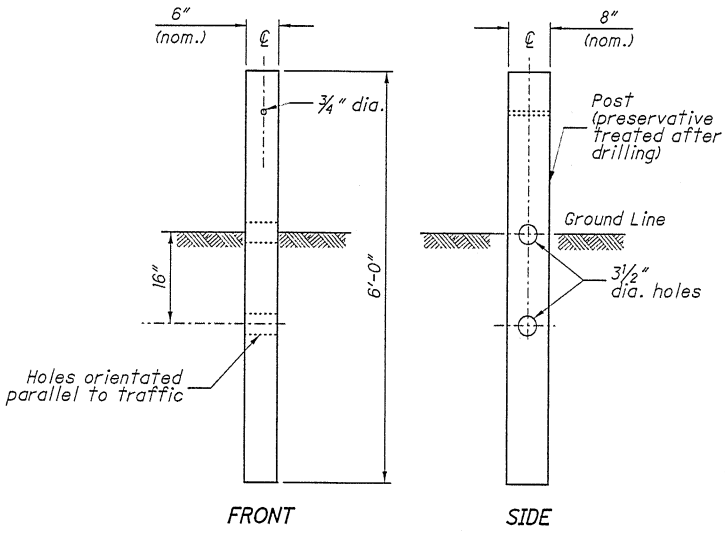


EL
W-BEAM FL

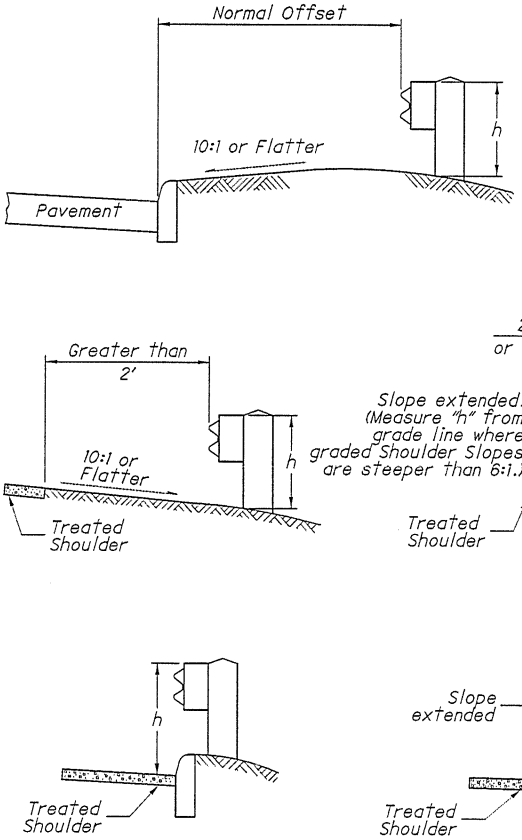


DETAIL A

See POST EMBEDMENT DEPTH Note



TYPE 1 BREAKAWAY CRT POST



h = Standard Height (See GUARDRAIL HEIGHT Note)

MEASURING GUARDRAIL HEIGHT

NOTE

GUARDRAIL HEIGHT: For initial installat
within ± 1″ of the standard height, h,
of W-Beam rail. (See MEASURING GUARDI
When subsequent projects, such as
height of existing guardrail, the finis
±2.5″ of the standard height.

POST EMBEDMENT DEPTH: Standard embe
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 w
with a footing anchor as detailed here
SECTION B-B of **SCD GR-2.2**, may be use
method.) Where the cover is between 2
may be omitted and the post encased

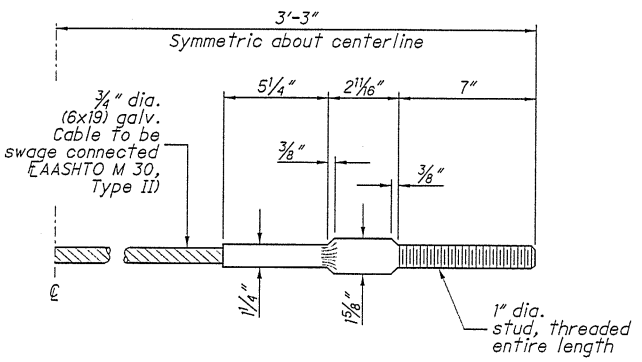
Do not drive posts located over a culv
of cover; instead set in drilled or dug
embedment depth is less than 3′-5″, en
4″ concrete.

All costs associated with special post
unit price bid of Item 606 Guardrail ot

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

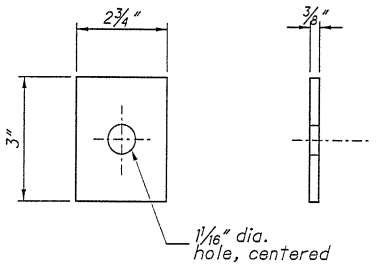
Expansion shield anchors as specified
except where concrete deterioration
the Engineer. Where self-drilling anch
with the expansion shield (not by a dri
flush with the concrete surface.

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

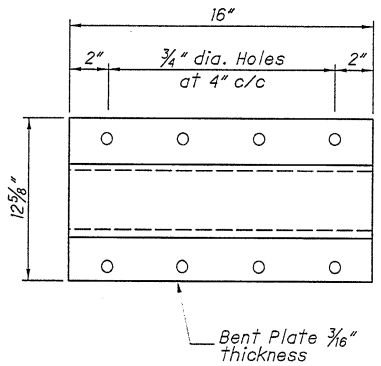


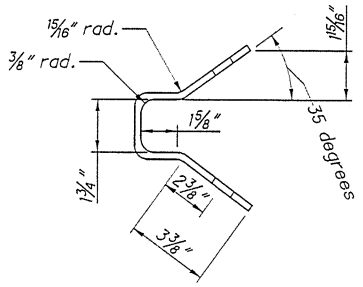
STANDARD SWAGED FITTING AND STUD

CABLE ANCHOR

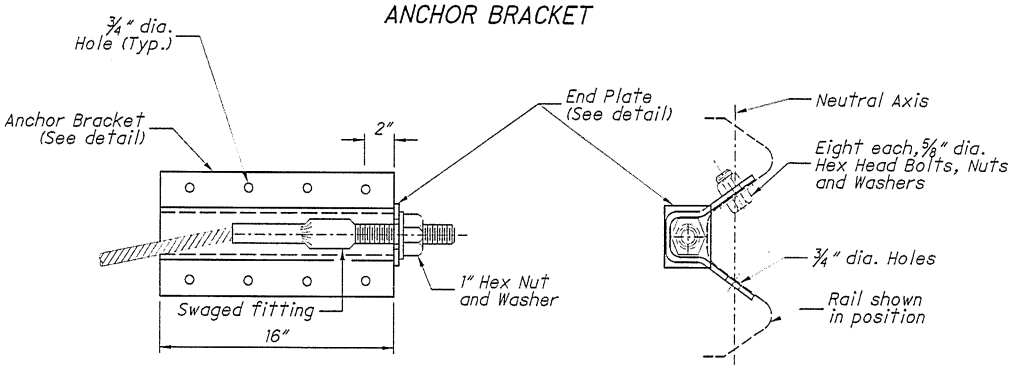


END PLATE

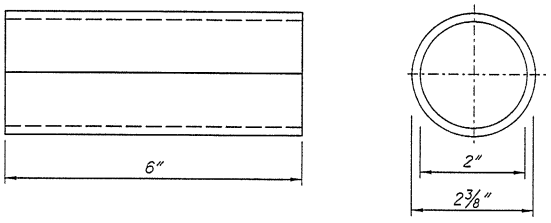




ANCHOR BRACKET

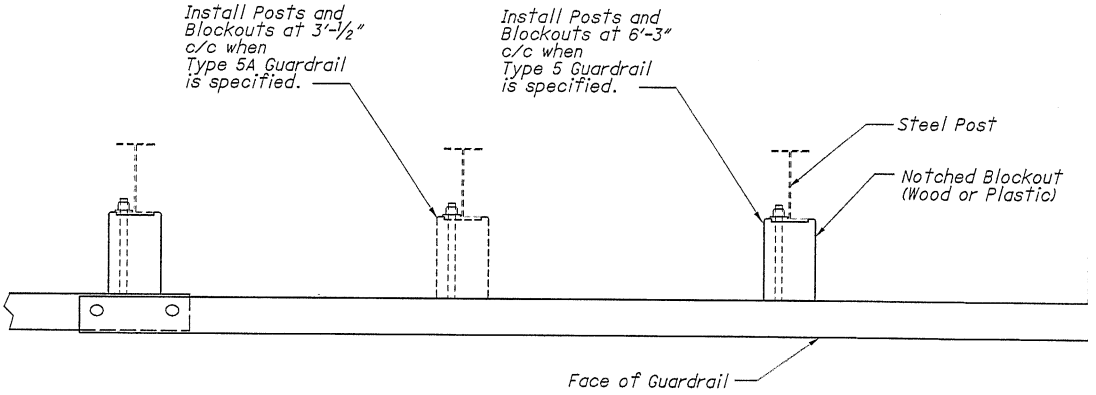


ANCHOR BRACKET ASSEMBLY DETAILS

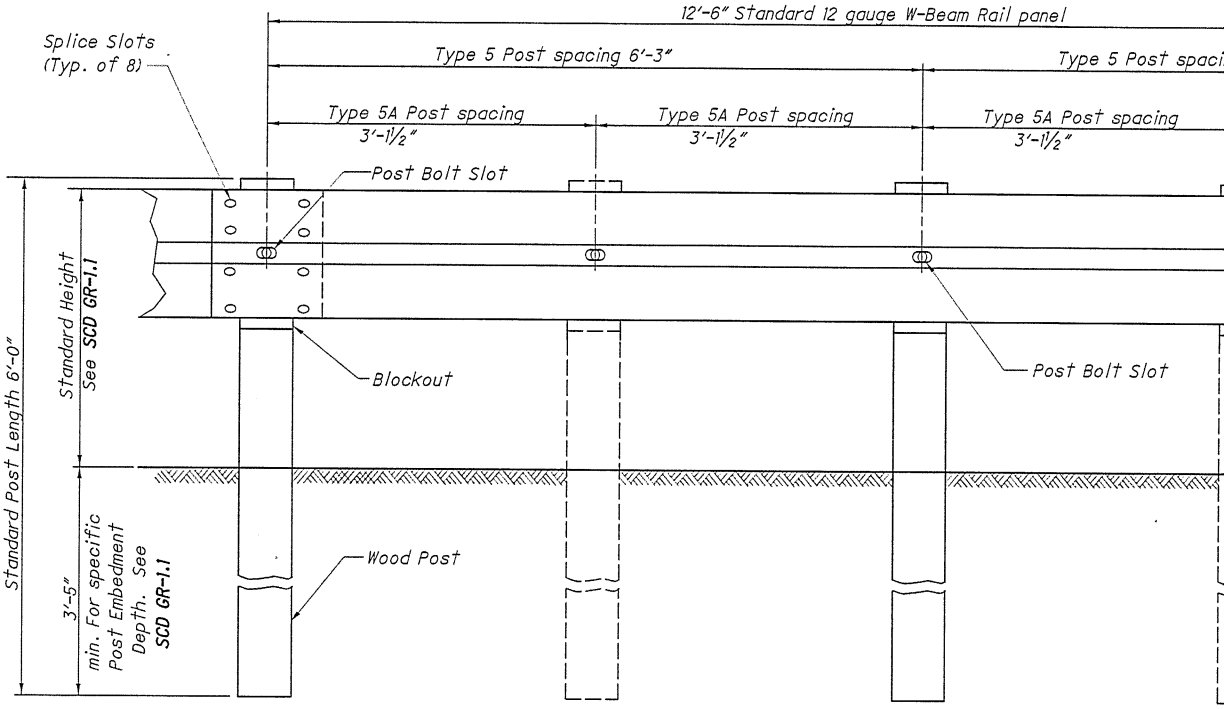


POST SLEEVE

MUS-376-5.09

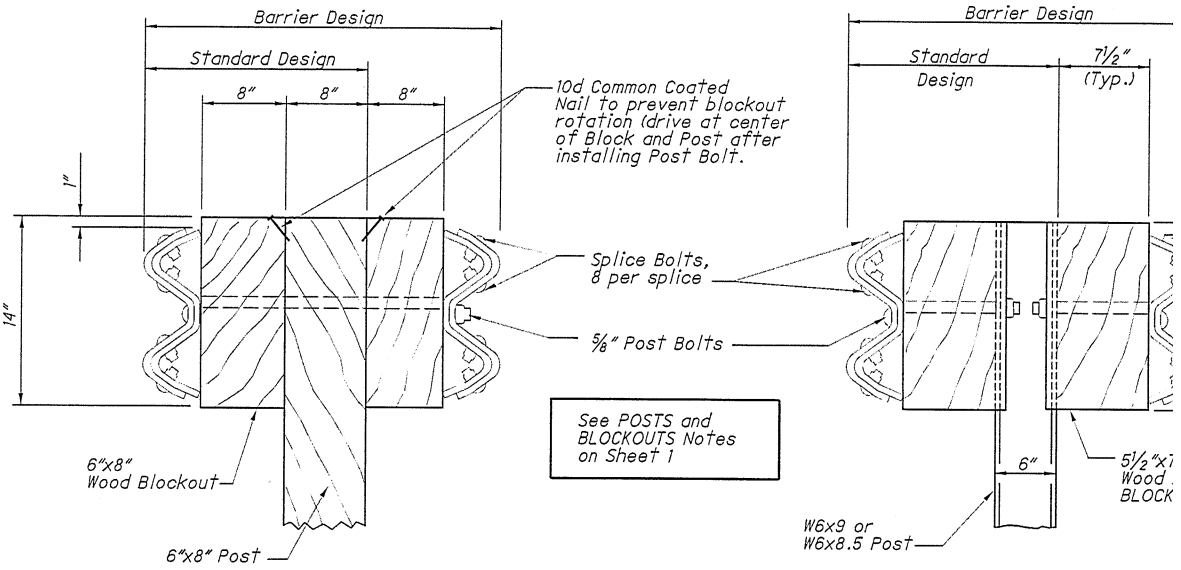


PLAN VIEW
(Steel Posts shown)



ELEVATION
(Wood Posts shown)

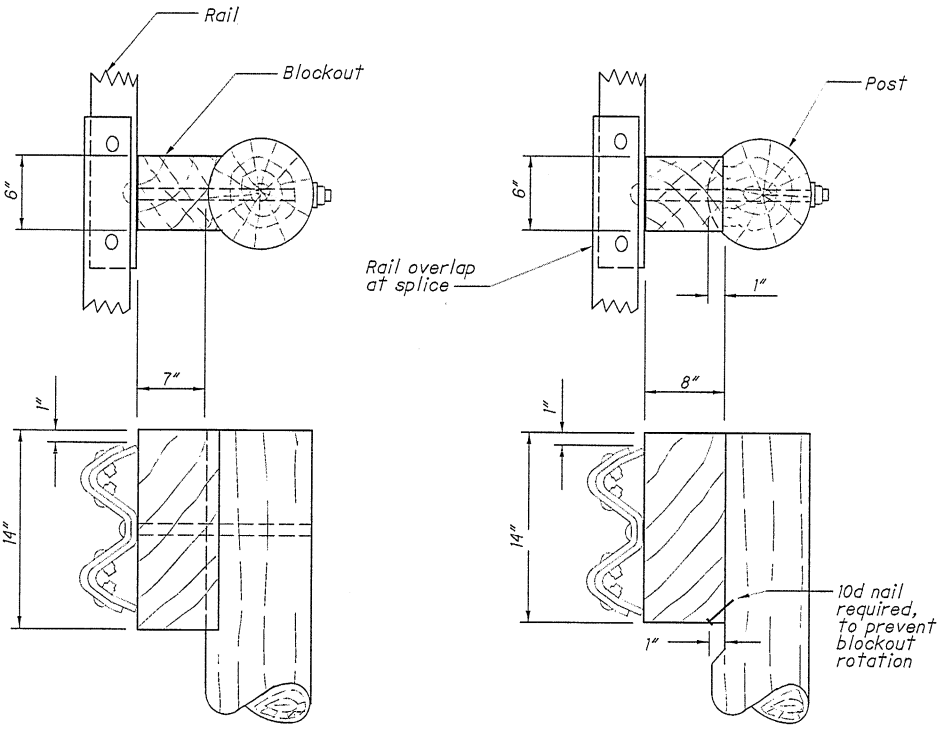
MUS-376-5.09



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)

MUS-376-5.09

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 REQURED 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

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

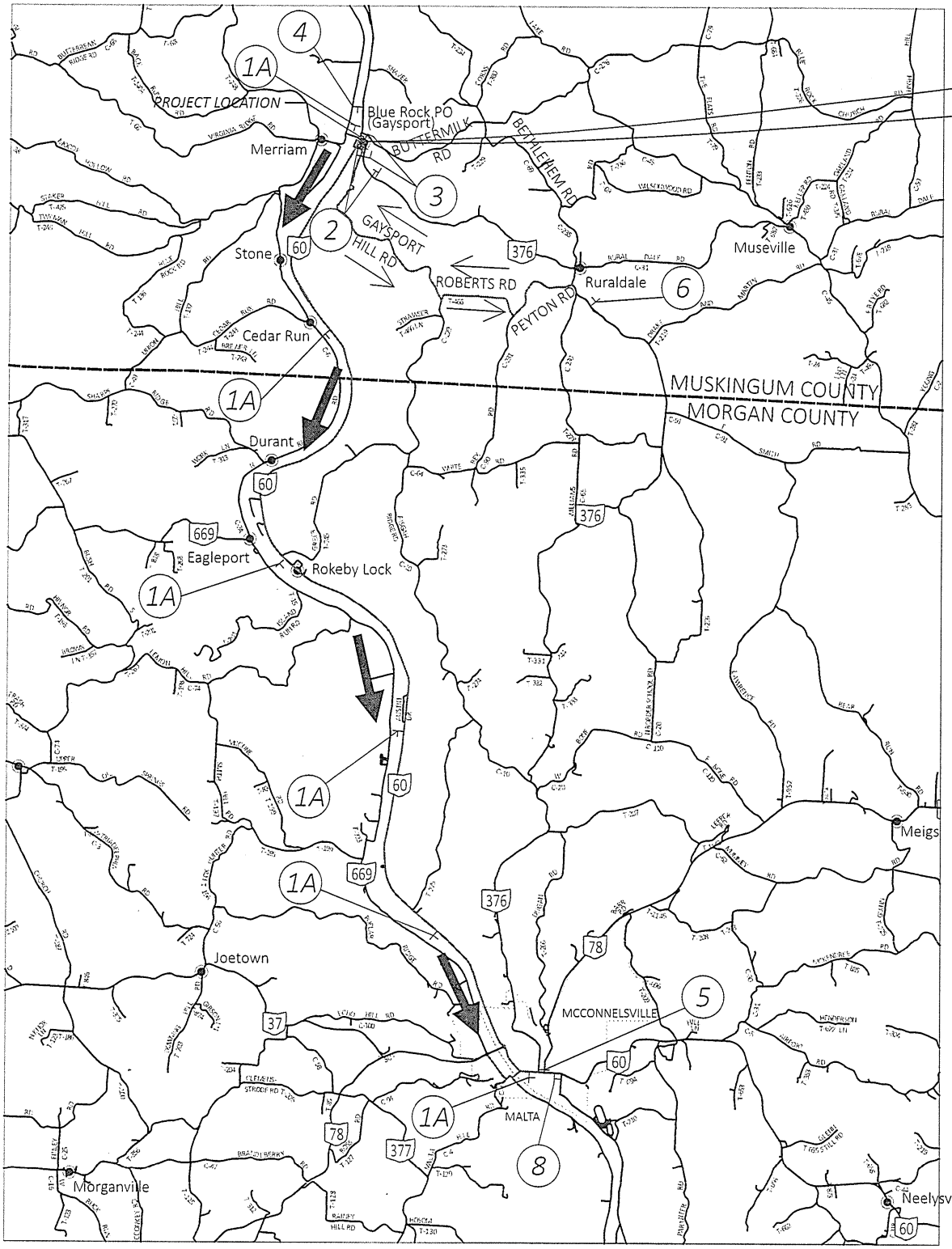
NOTICE OF CLOSURE SIGNS (W20- H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. [AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLATSHEET SIGN FOR CLOSURE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

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



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

1/4 1 2
1/2
SCALES IN MILES

LEGE
LOCAL
STATE
PROJE

FOR MAINTENANCE OF TRAFFIC NOTES, SEE SHEET 11

MUS-376-5.09

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SHEET NUM.				PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	
5	11	14	26	01/NFA/21					
LS				LS	201	11000	LS		CLEARING AND GRUBBING
		92		92	202	23000	92	SY	PAVEMENT REMOVED
		25		25	202	38000	25	FT	GUARDRAIL REMOVED
		LS		LS	202	56000	LS		BUILDING DEMOLISHED - ONE STORY HOUSE & SHED
		1		1	SPECIAL	20266000	1	EACH	DRILLED WATER WELL ABANDONED
			38	38	SPECIAL	20270000	38	FT	FILL AND PLUG EXISTING CONDUIT - 12"
10,203				10,203	203	10000	10,203	CY	EXCAVATION
		558		558	204	10000	558	SY	SUBGRADE COMPACTION
		25		25	606	13030	25	FT	GUARDRAIL, TYPE 5, USING 9 FOOT POSTS
		1		1	617	10101	1	CY	COMPACTED AGGREGATE, AS PER PLAN
			7	7	601	21050	7	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT
		383		383	609	26000	383	FT	CURB, TYPE 6
3,210				3,210	659	00510	3,210	SY	SEEDING AND MULCHING, CLASS 2
0.4				0.4	659	20000	0.4	TON	COMMERCIAL FERTILIZER
0.7				0.7	659	31000	0.7	ACRE	LIME
17				17	659	35000	17	MGAL	WATER
				1,000	832	30000	1,000	EACH	EROSION CONTROL
			62	62	611	05900	62	FT	15" CONDUIT, TYPE B-706.02
			1	1	611	98180	1	EACH	CATCH BASIN, NO. 3A
		92		92	301	56000	92	CY	ASPHALT CONCRETE BASE, PG64-22, (449)
		92		92	304	20000	92	CY	AGGREGATE BASE
	24	66		90	407	20000	90	GAL	NON-TRACKING TACK COAT
		22		22	408	10001	22	GAL	PRIME COAT, AS PER PLAN
		19		19	441	50000	19	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-2
		27		27	441	50300	27	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)
		2		2	621	00100	2	EACH	RPM
		2		2	621	54000	2	EACH	RAISED PAVEMENT MARKER REMOVED
		0.08		0.08	642	00104	0.08	MILE	EDGE LINE, 6", TYPE 1
		0.01		0.01	642	00300	0.01	MILE	CENTER LINE, TYPE 1
	20			20	441	90000	20	CY	ASPHALT CONCRETE, MISC.: SPOT TREATMENT
				LS	614	12420	LS		DETOUR SIGNING
	8			8	614	18601	8	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN
	1			1	616	10000	1	MGAL	WATER
				LS	614	11000	LS		MAINTAINING TRAFFIC
LS				LS	623	10001	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLA
				LS	624	10000	LS		MOBILIZATION

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FULL DEPTH PAVEMENT CALCULATIONS

LIMITS:
STA. 12+20.00 TO STA. 12+40.00 (= 20.00 FT)
STA. 10+20.00 TO STA. 14+45.00 (= 425.00 FT)

ITEM 202, PAVEMENT REMOVED
406.4 SF* (STA. 10+20.00 TO STA. 14+45.00) + 421.6 SF* (STA. 12+20.00 TO STA. 12+40.00) = 92 SY

ITEM 441, ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG 64-22
[4541.8 SF* (STA. 10+20.00 TO STA. 14+45.00) + 422.8 SF* (STA. 12+20.00 TO STA. 12+40.00)] X 1.25" = 19 CY

ITEM 407, NON-TRACKING TACK COAT (APPLIED TO NEW INTERMEDIATE COURSE)
[4541.8 SF* (STA. 10+20.00 TO STA. 14+45.00) + 422.8 SF* (STA. 12+20.00 TO STA. 12+40.00)] X 0.06 GAL PER SY = 33 GAL

ITEM 441, ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)
[4541.8 SF* (STA. 10+20.00 TO STA. 14+45.00) + 422.8 SF* (STA. 12+20.00 TO STA. 12+40.00)] X 1.75" = 27 CY

ITEM 407, NON-TRACKING TACK COAT (APPLIED TO NEW ASPHALT BASE COURSE)
[4541.8 SF* (STA. 10+20.00 TO STA. 14+45.00) + 430.2 SF* (STA. 12+20.00 TO STA. 12+40.00)] X 0.06 GAL PER SY = 33 GAL

ITEM 301, ASPHALT CONCRETE BASE, PG64-22 (449)
[4541.8 SF* (STA. 10+20.00 TO STA. 14+45.00) + 430.2 SF* (STA. 12+20.00 TO STA. 12+40.00)]* X 6" = 92 CY

ITEM 304, AGGREGATE BASE
[4541.8 SF* (STA. 10+20.00 TO STA. 14+45.00) + 441.3 SF* (STA. 12+20.00 TO STA. 12+40.00)] X 6" = 92 CY

ITEM 204, SUBGRADE COMPACTION
4541.8 SF* (STA. 10+20.00 TO STA. 14+45.00) + 477.9 SF* (STA. 12+20.00 TO STA. 12+40.00)= 558 SY

ITEM 408, PRIME COAT, AS PER PLAN
55.1 SF* X 0.40 GAL PER SY = 22 GAL

ITEM 617, COMPACTED AGGREGATE, AS PER PLAN
55.1 SF* (LT.) X 4" = 1 CY

ITEM 609, CURB, TYPE 6
383 FT

*CADD-GENERATED AREA

GUARDRAIL CALCULATIONS

LIMITS:
STA. 12+20.00 TO STA. 12+40.00

ITEM 202, GUARDRAIL REMOVED
=25 FT

ITEM 606, GUARDRAIL, TYPE 5, USING 9 FOOT POSTS
= 25 FT

BUILDINGS DEMOLISHED & WELL ABANDONED

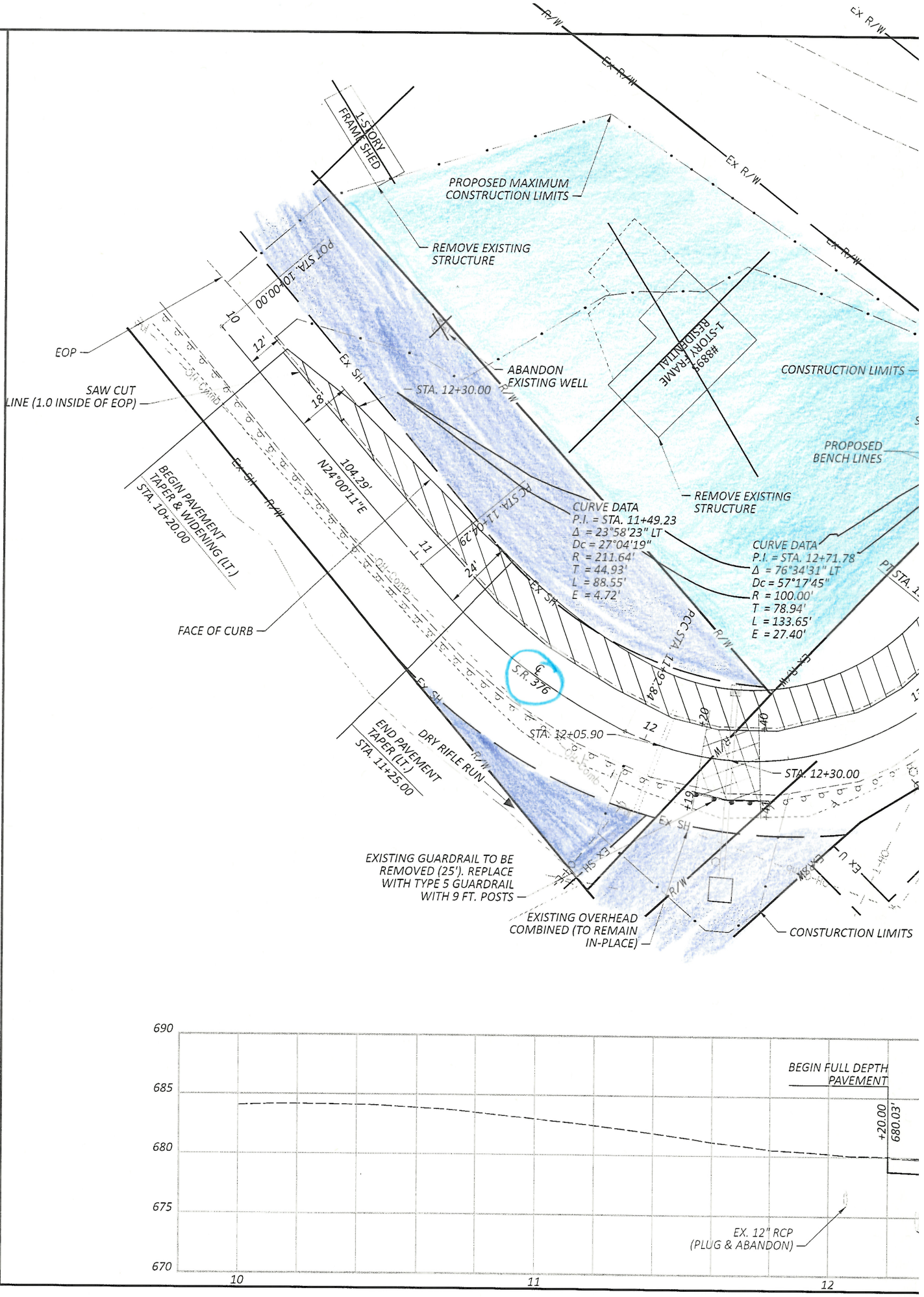
LOCATION:
STA. 11+10.00
115.5' LT (HOUSE)

STA. 9+82.00
78.3' LT (SHED)

ITEM 202, BUILDING DEMOLISHED, ONE STORY HOUSE & SHED
=LUMP SUM

LOCATION:
STA. 10+48.00
56.0' LT (WATER WELL)

ITEM 202, SPECIAL - DRILLED WATER WELL ABANDONED
= 1 EACH



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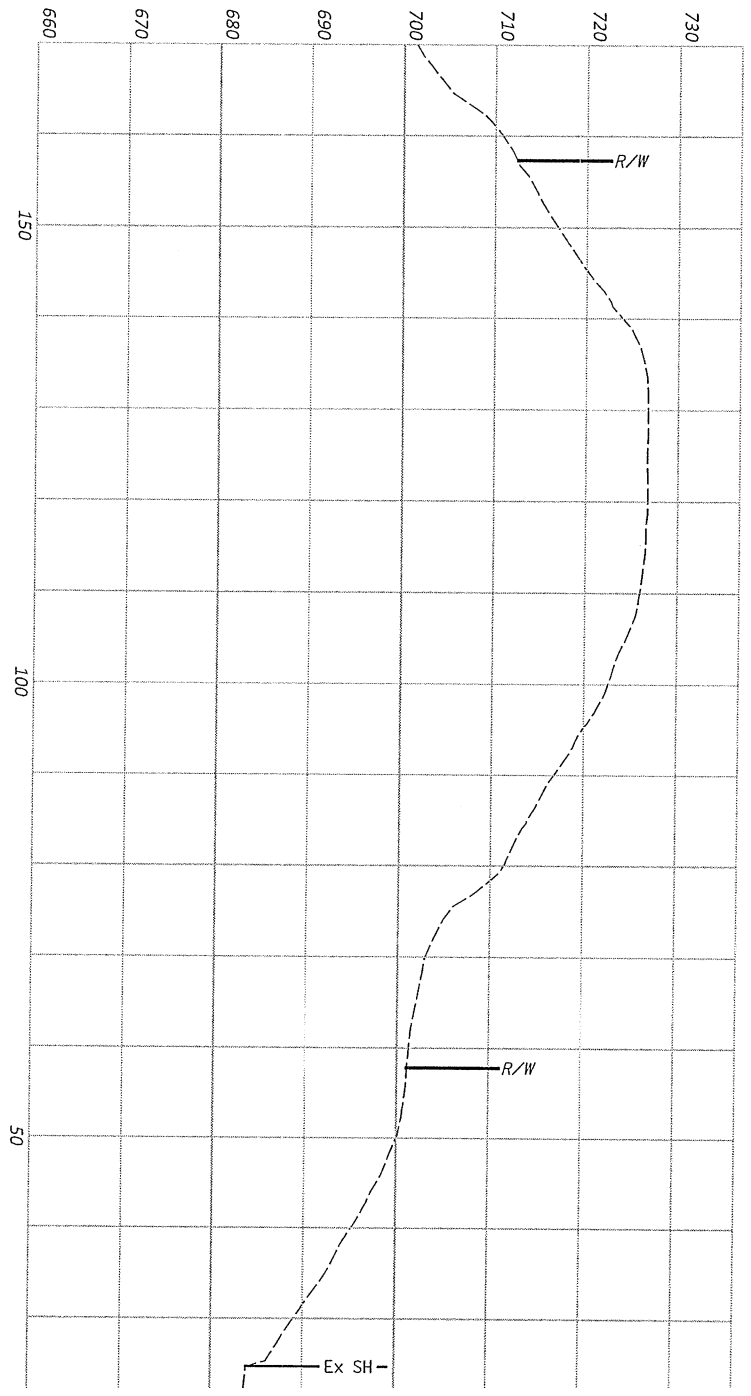

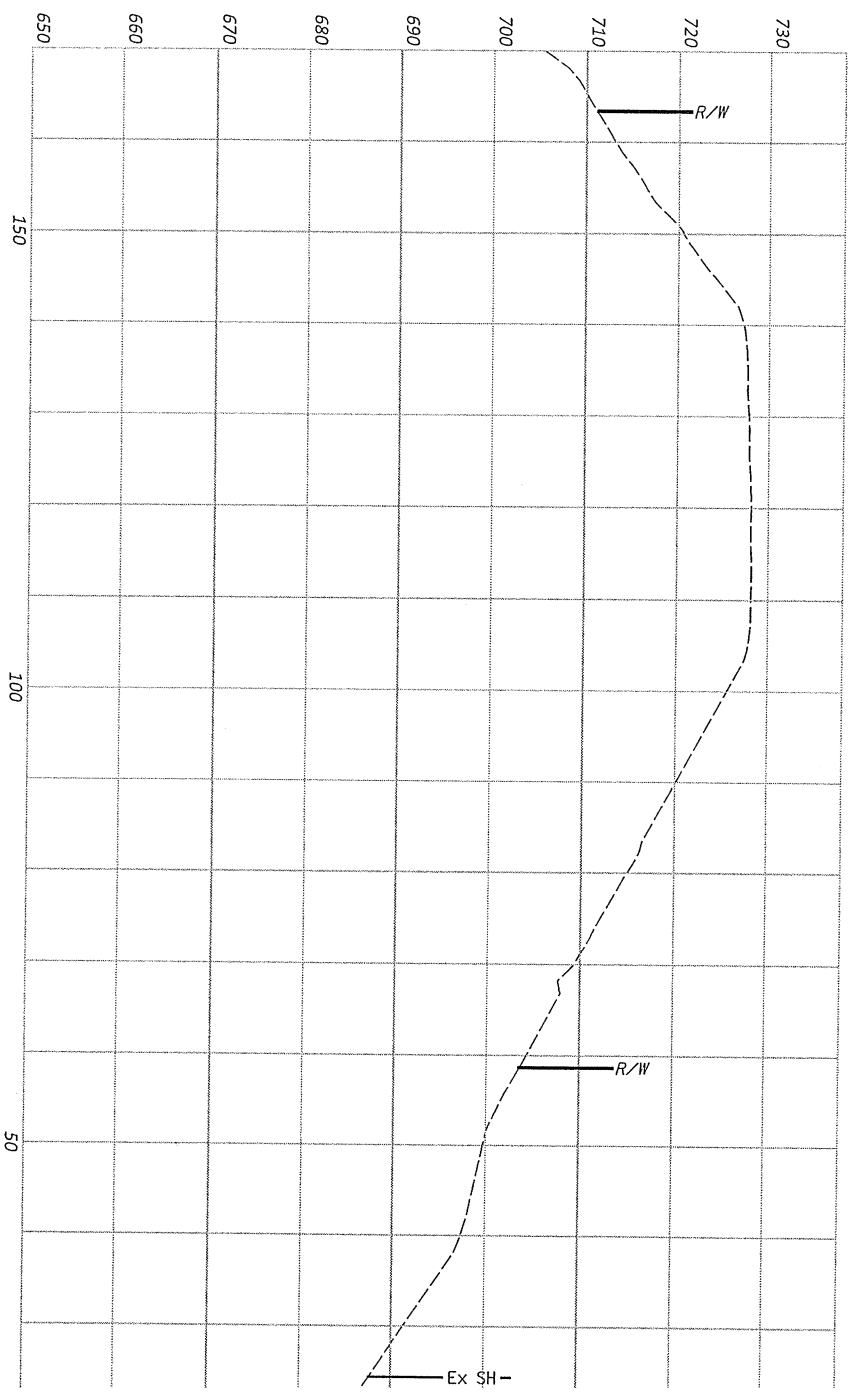

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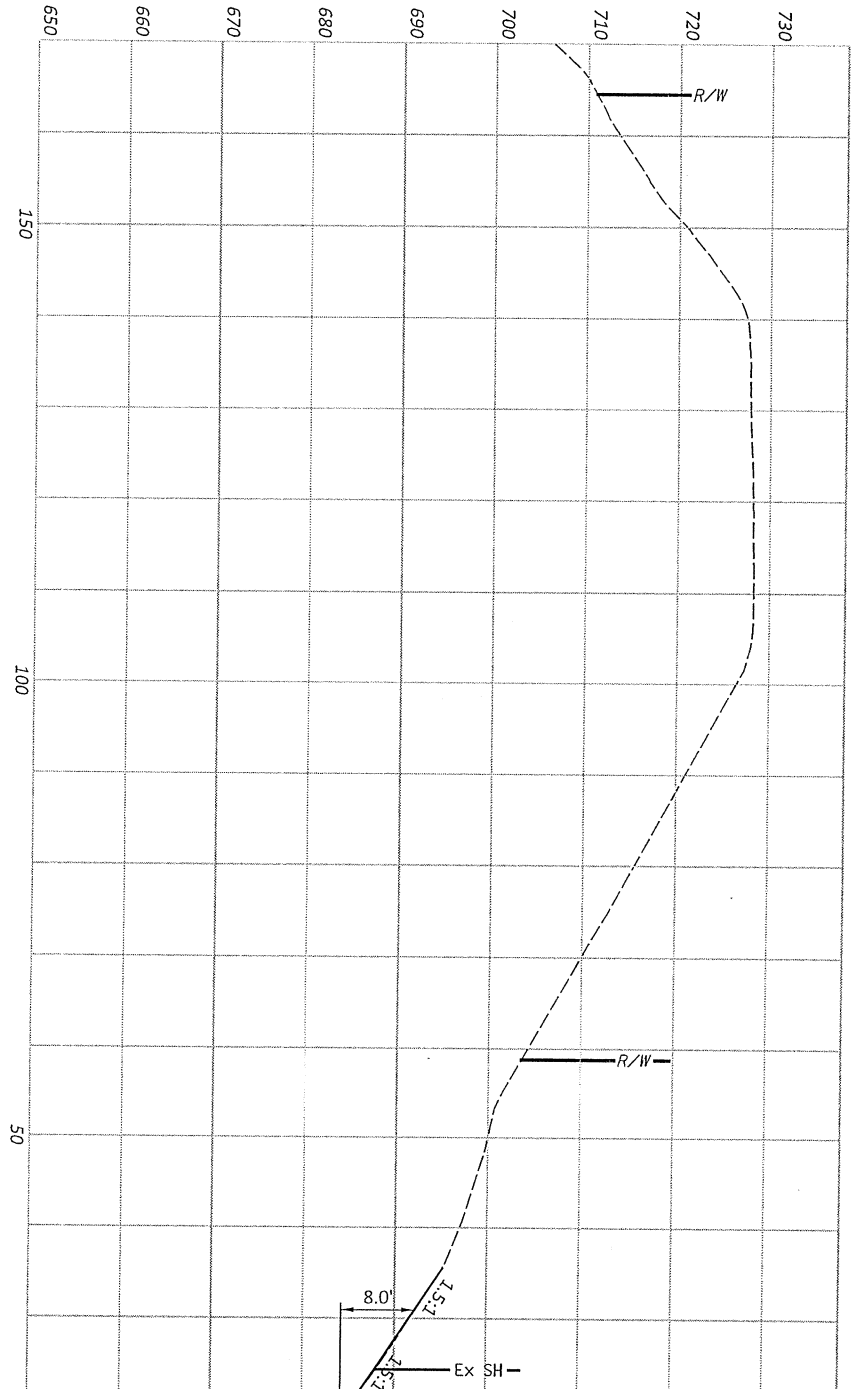

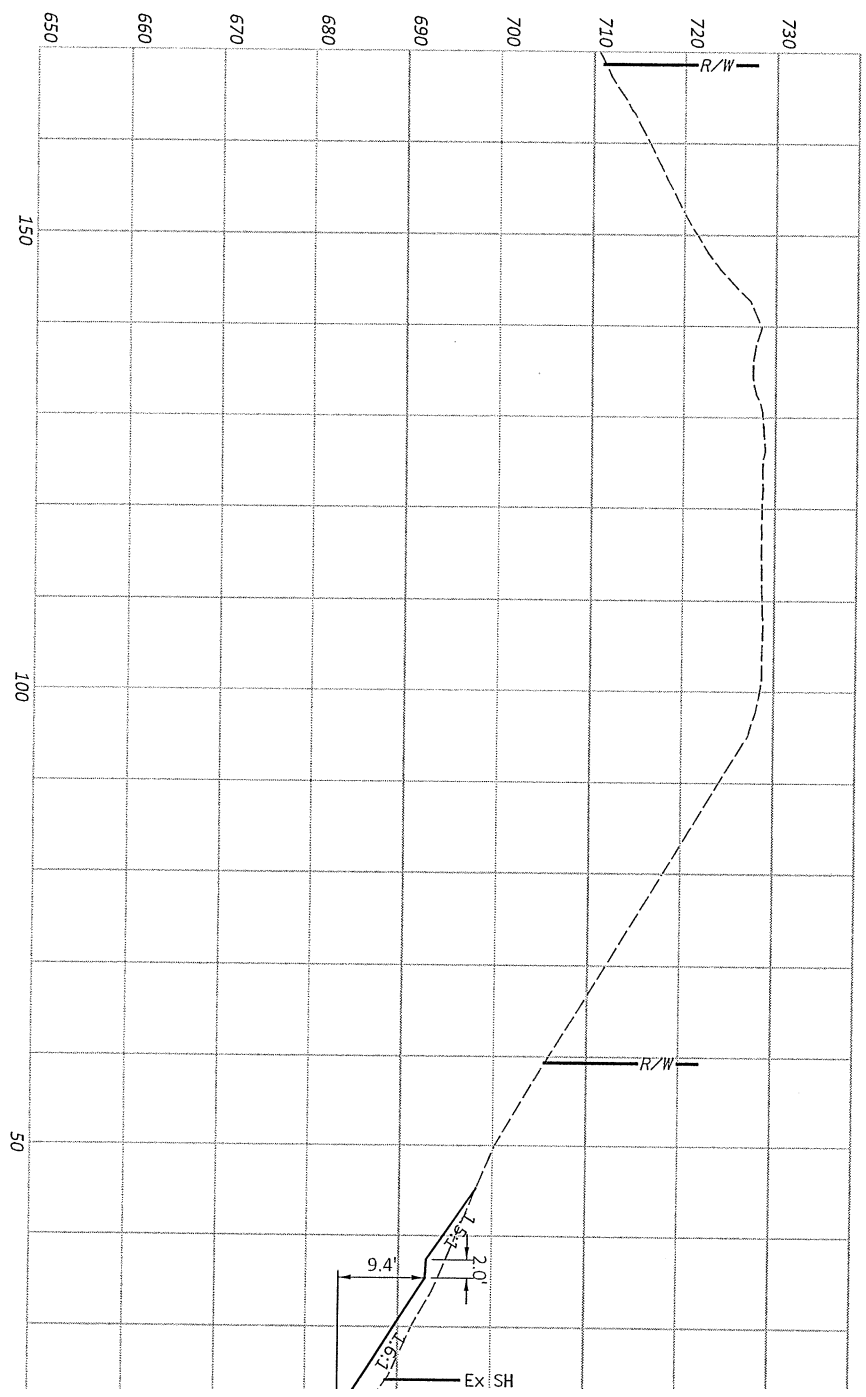

CTY-RTE-SECTION

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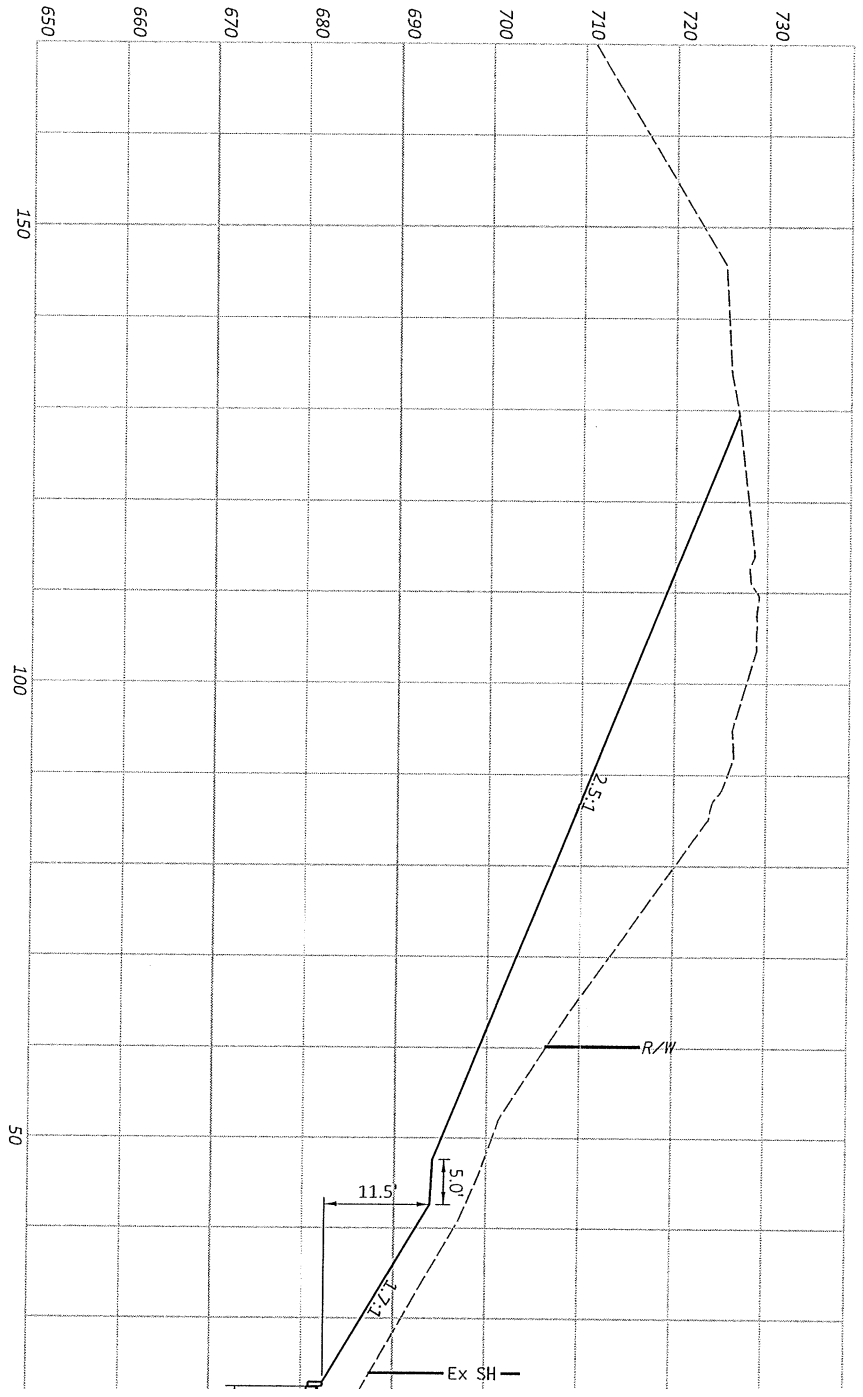

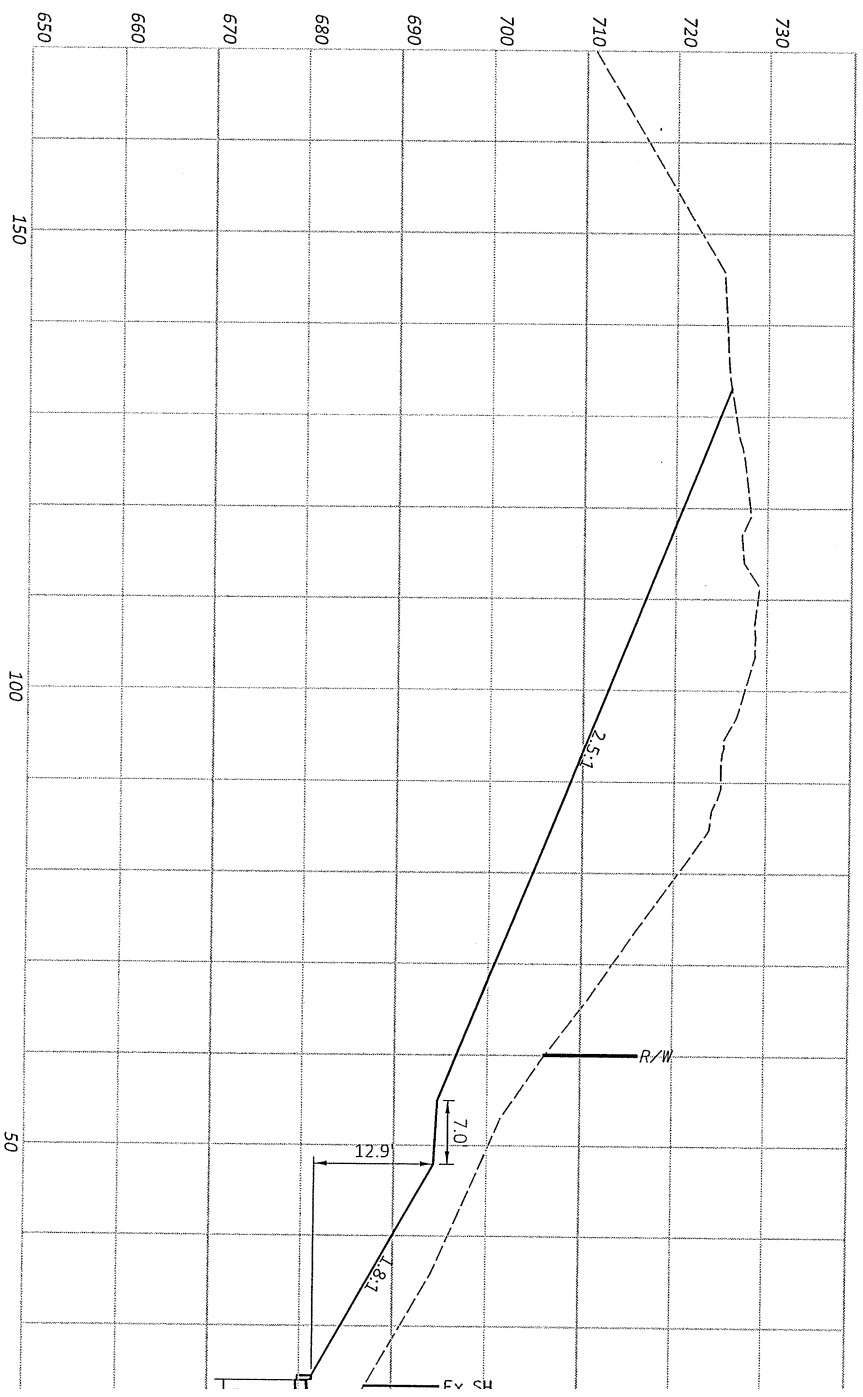

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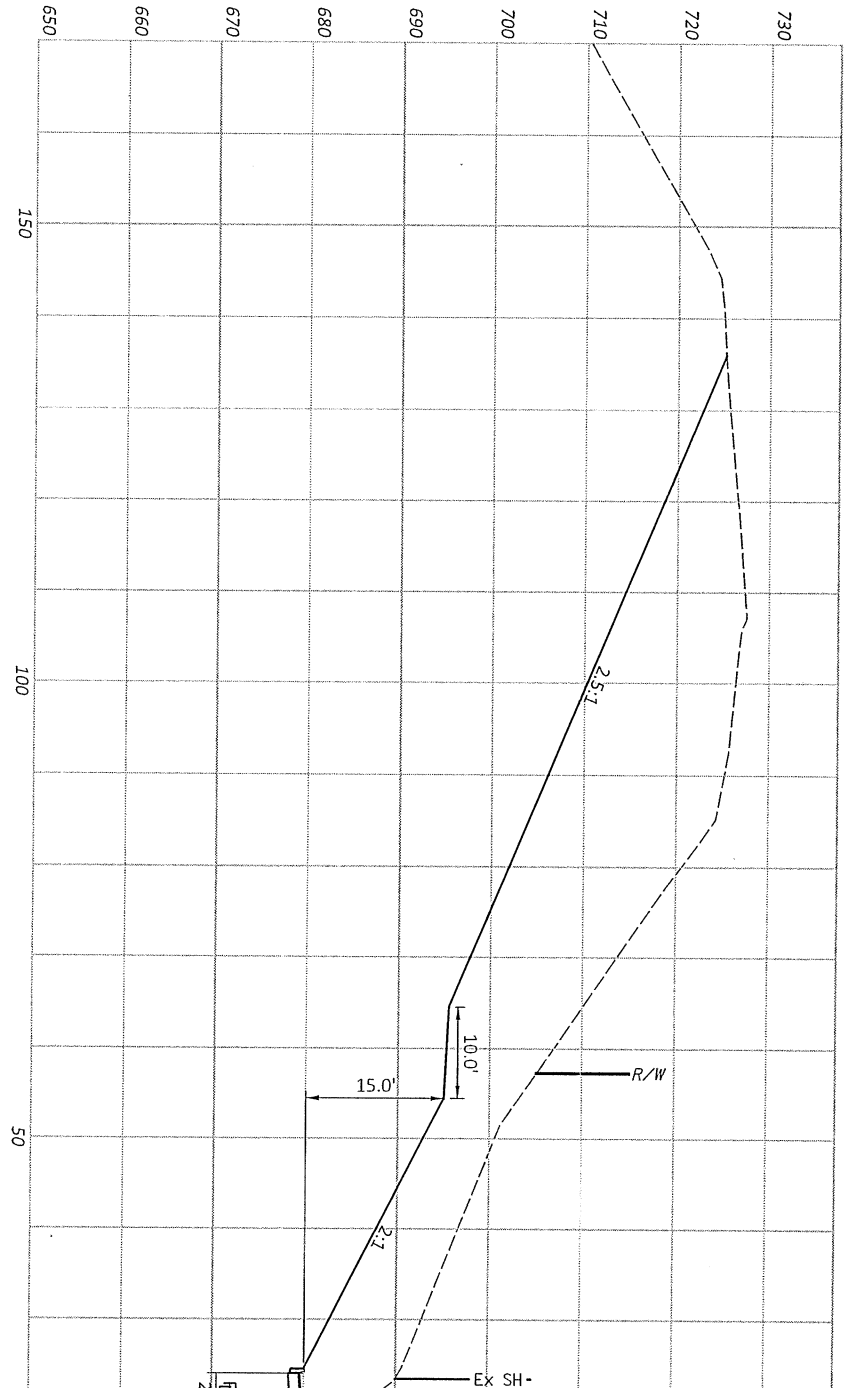

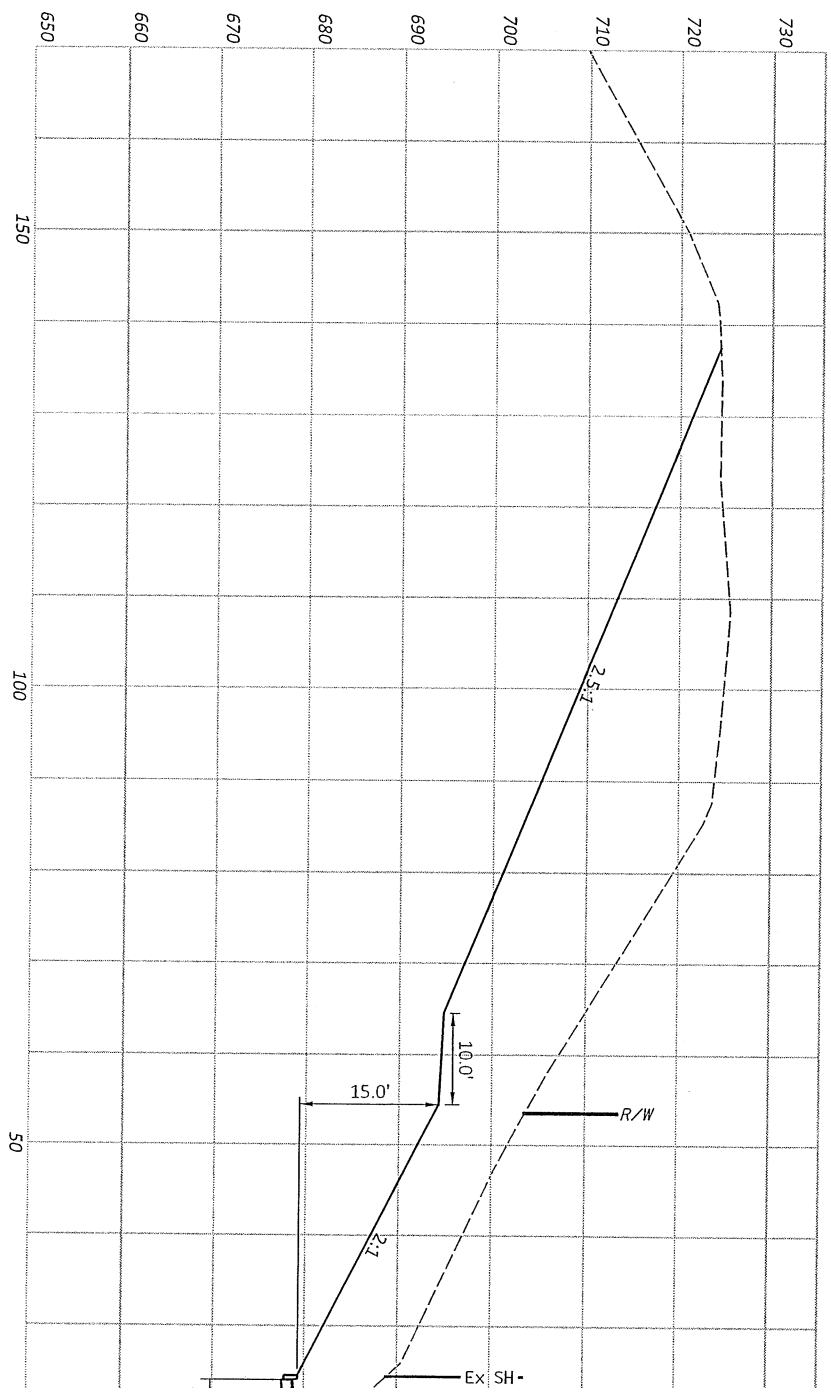

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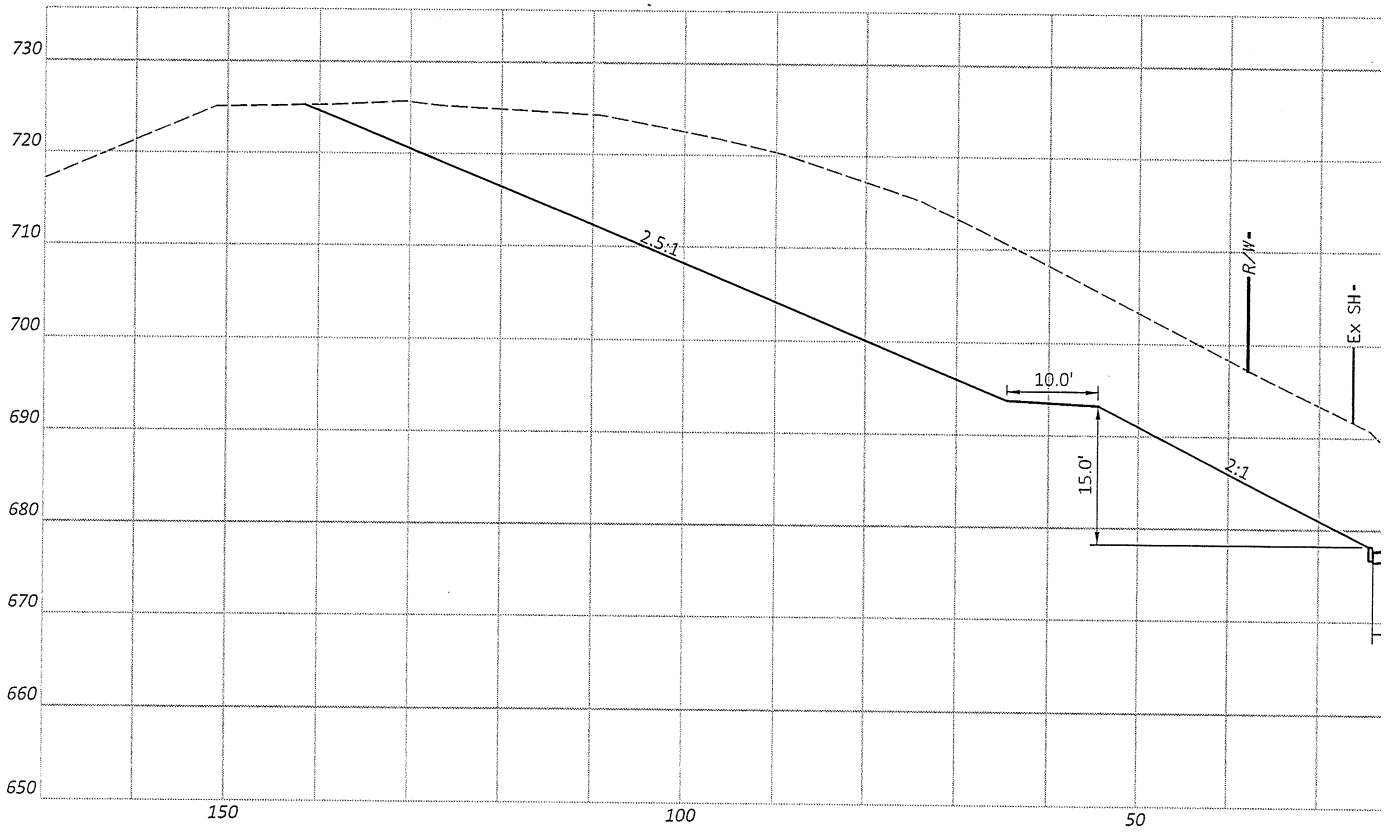

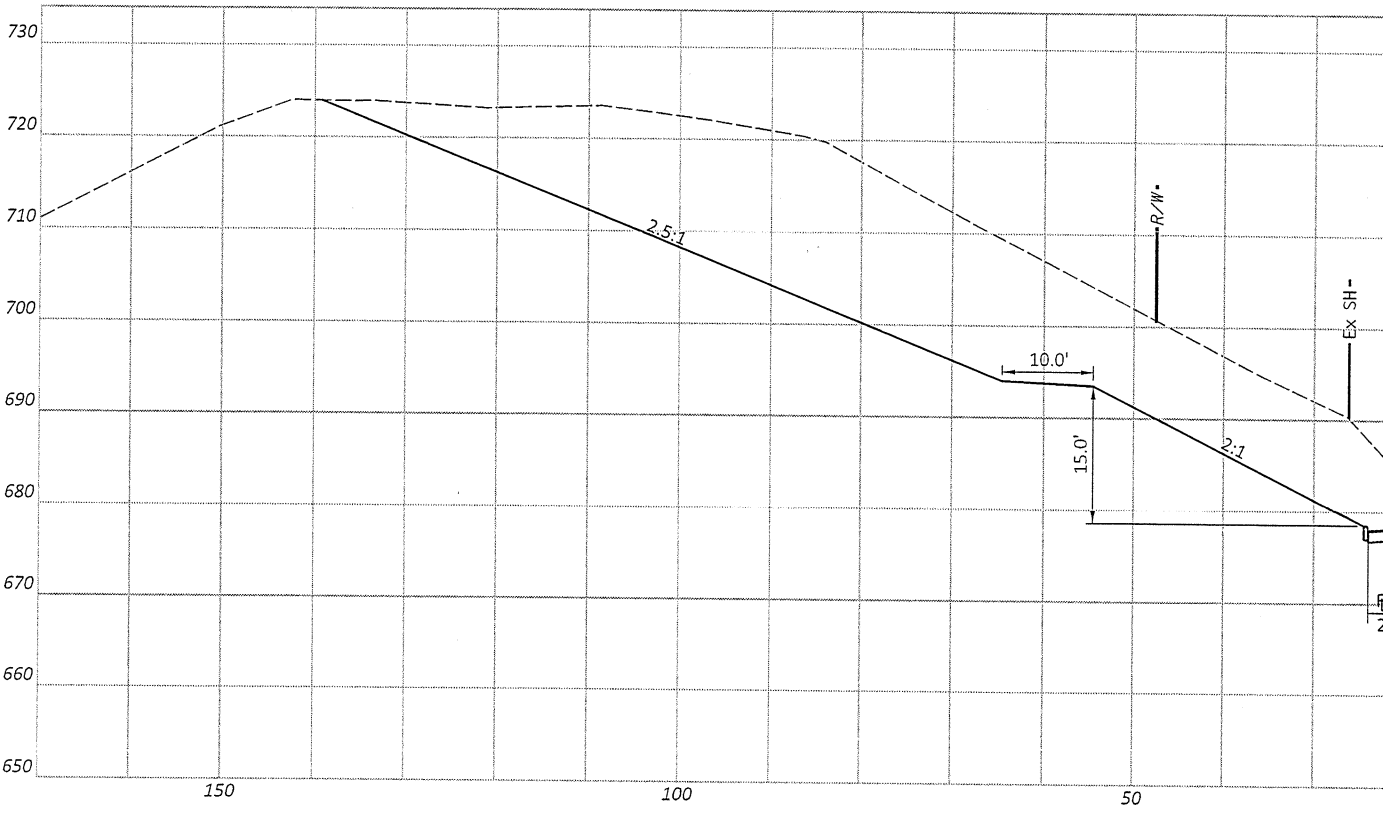

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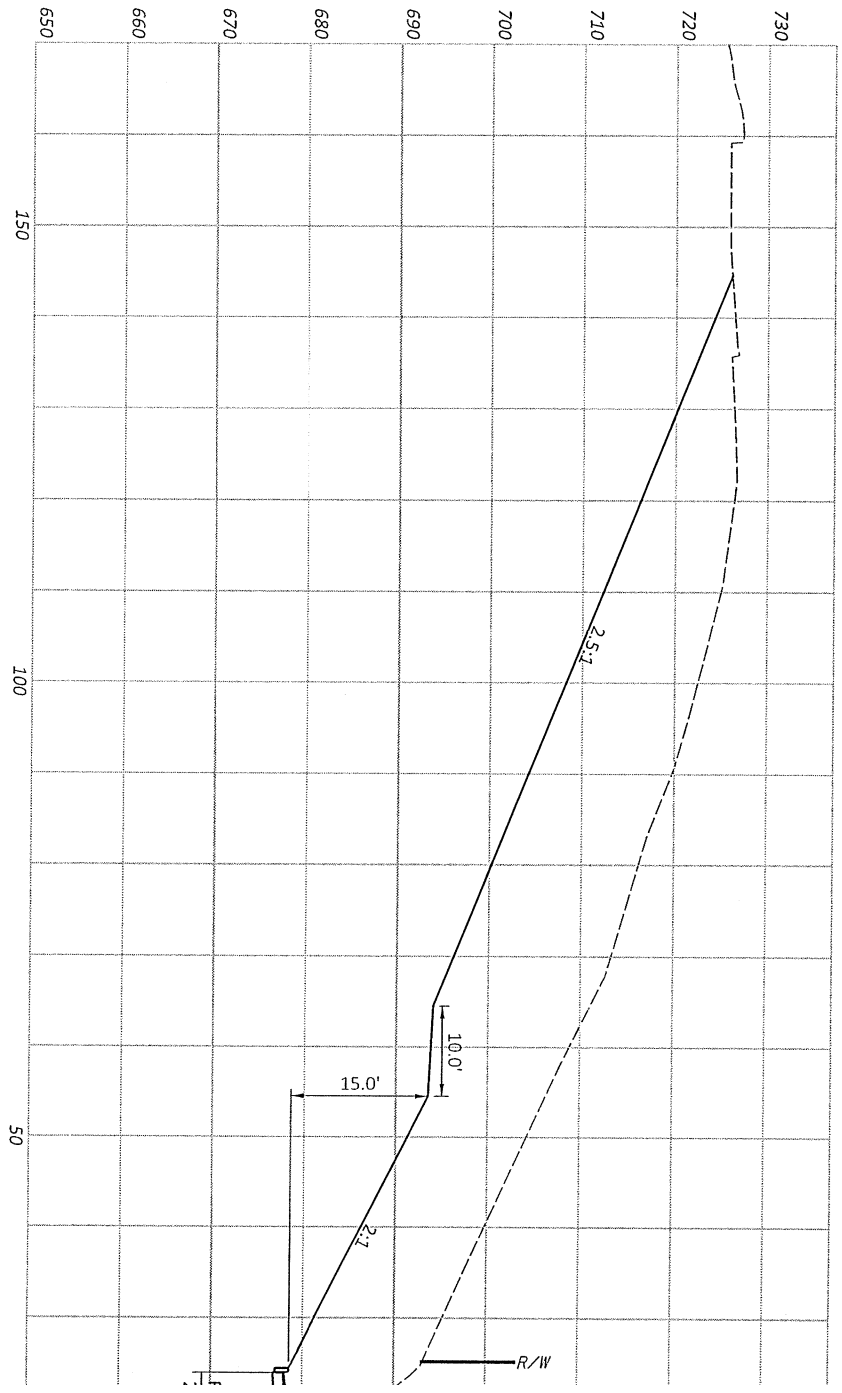

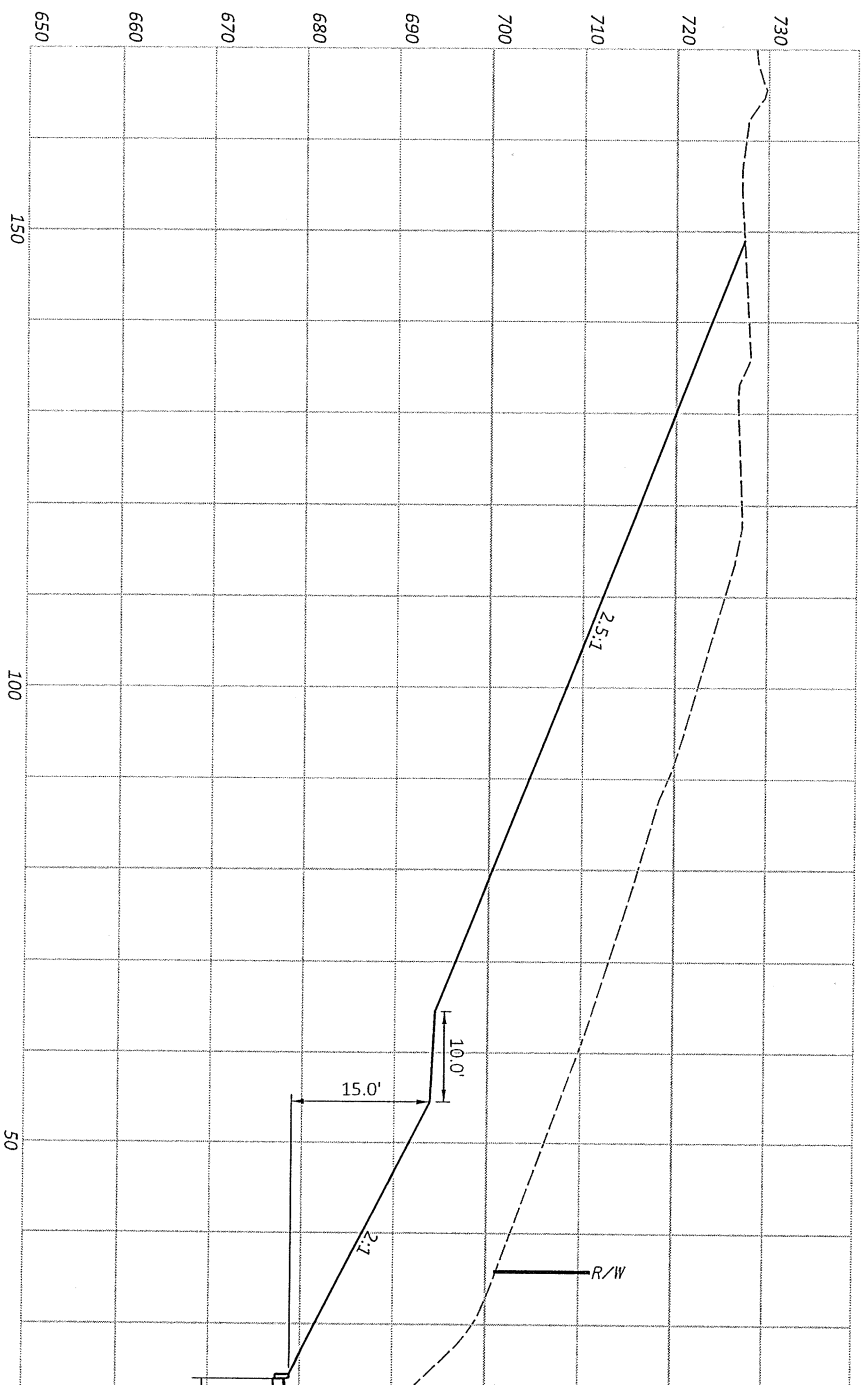

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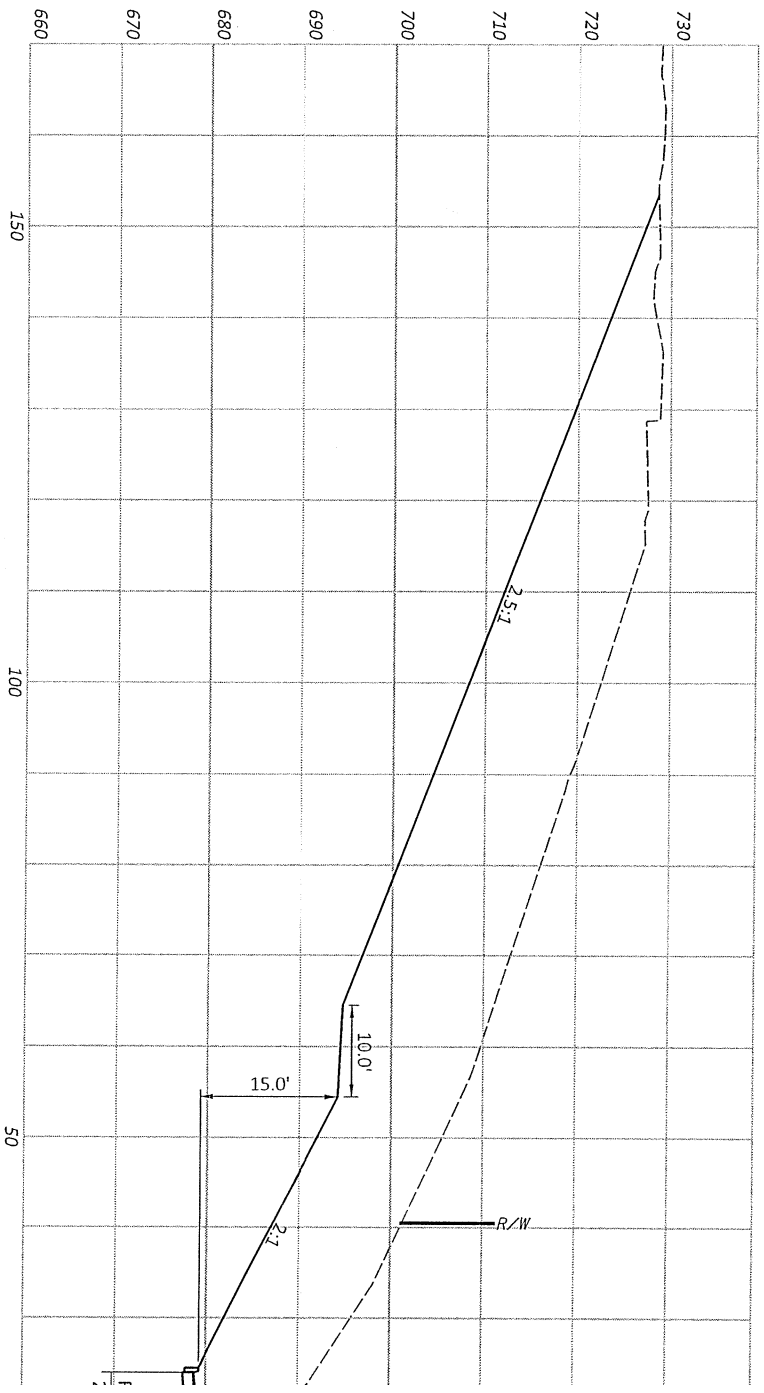

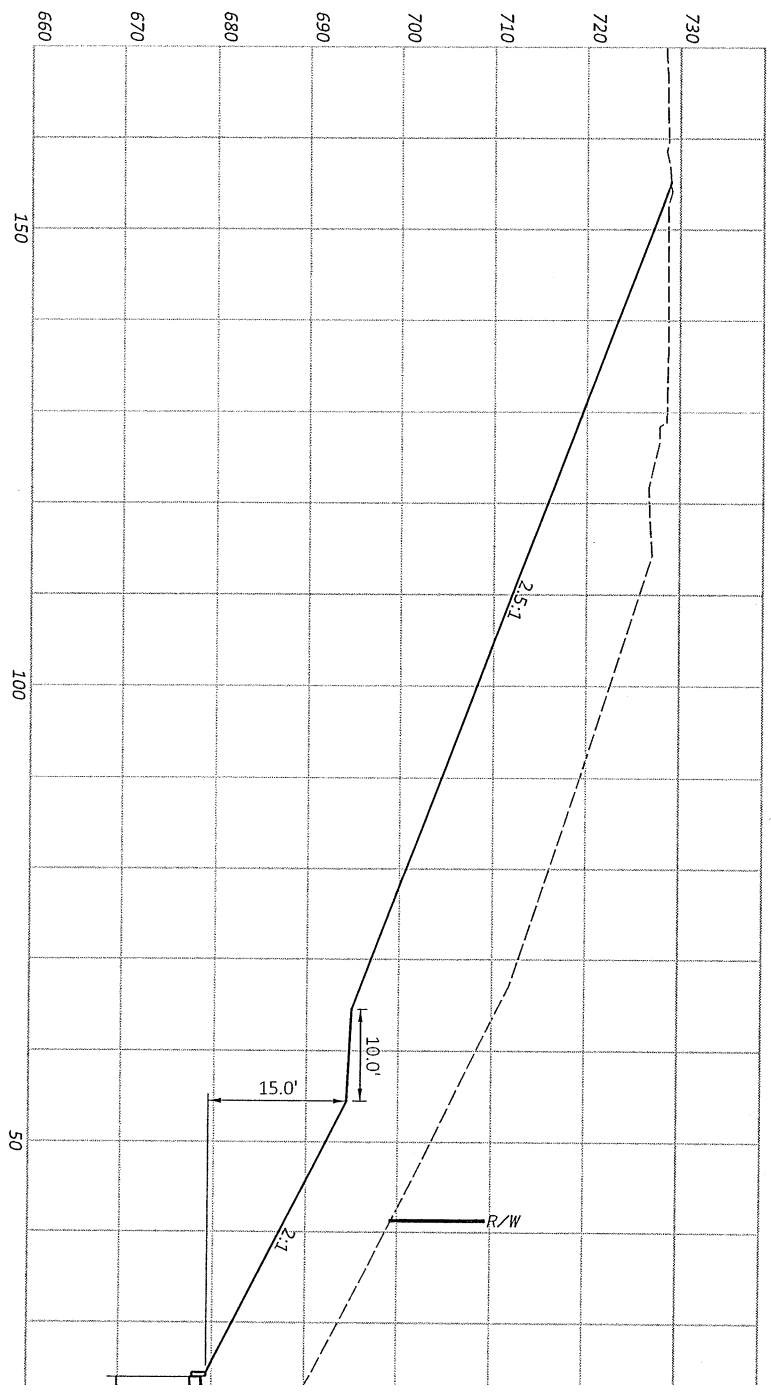

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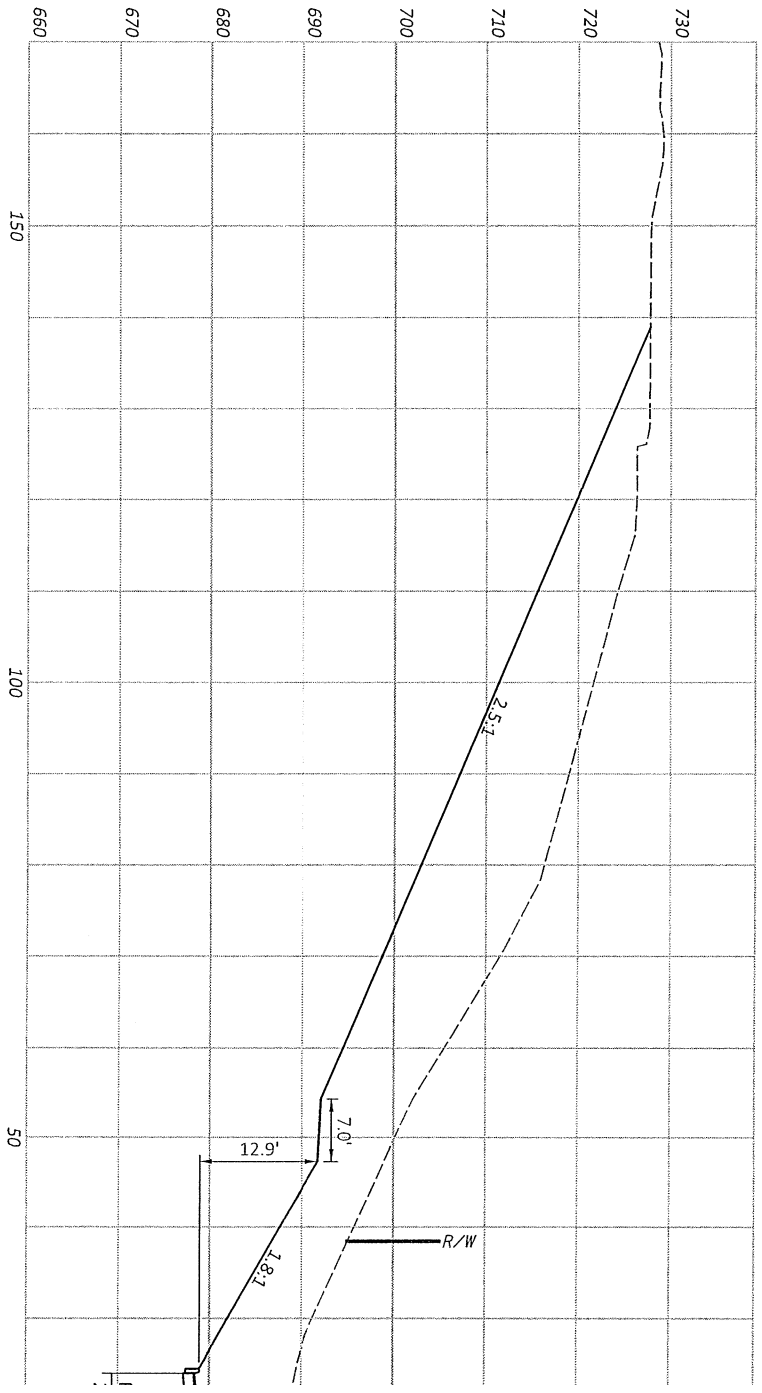

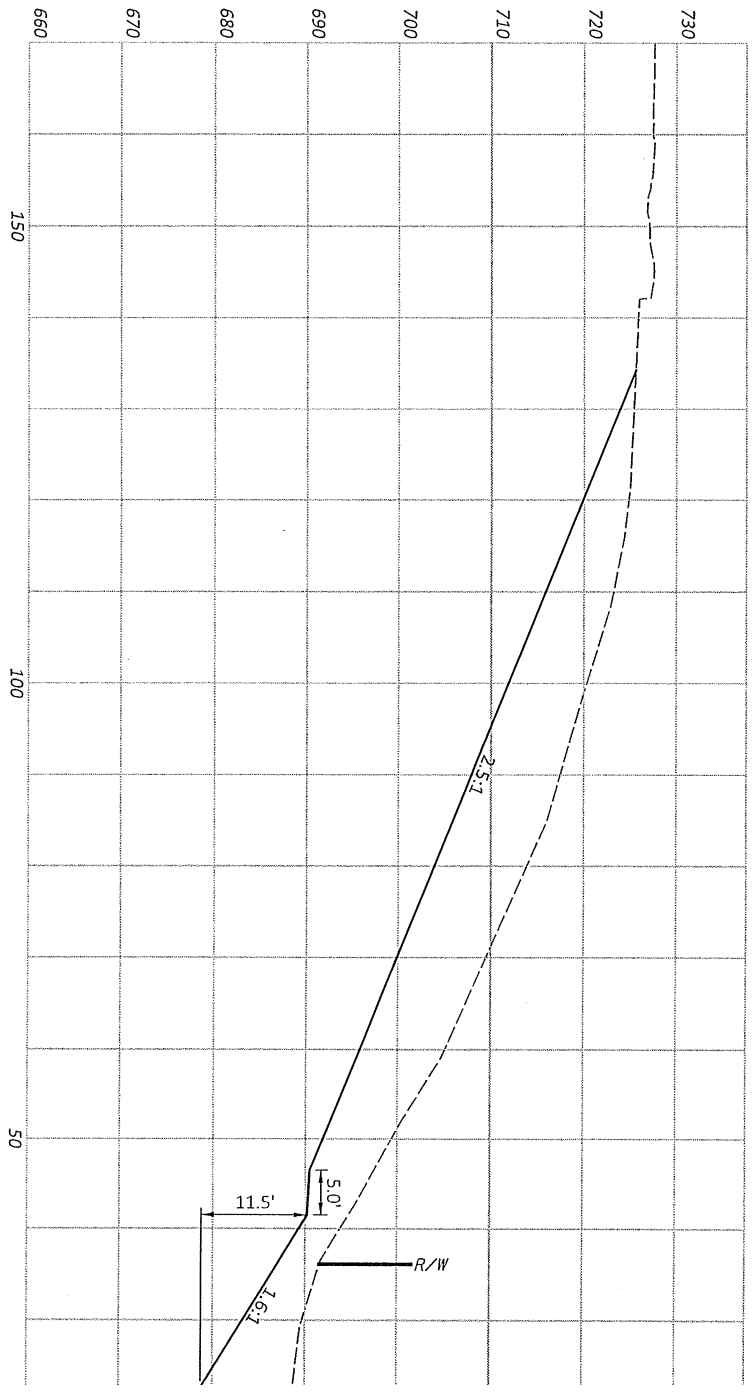

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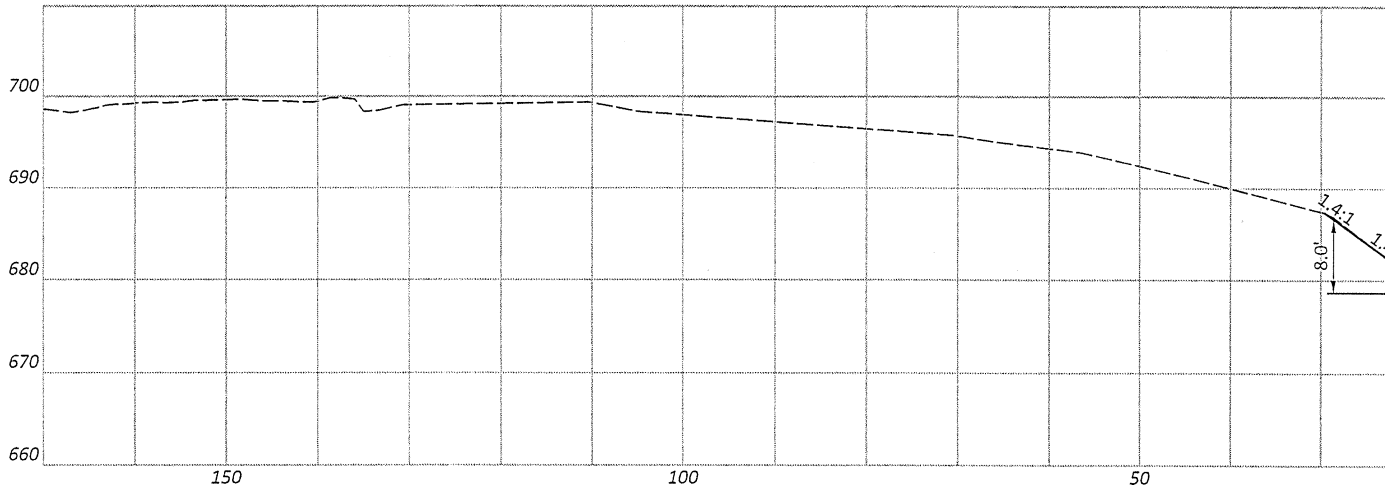
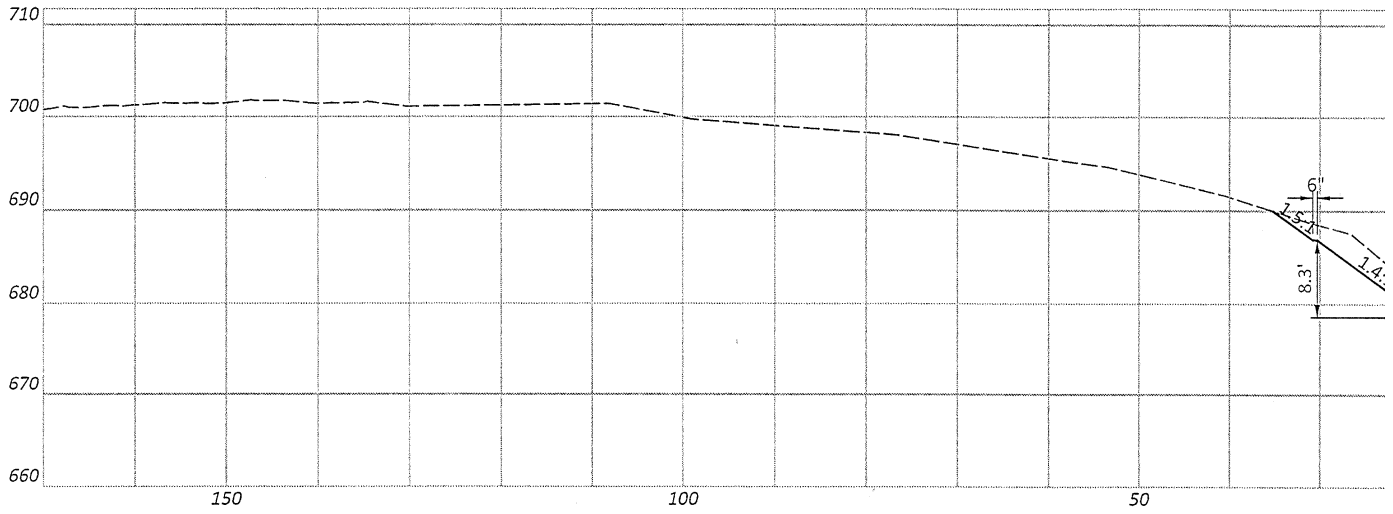
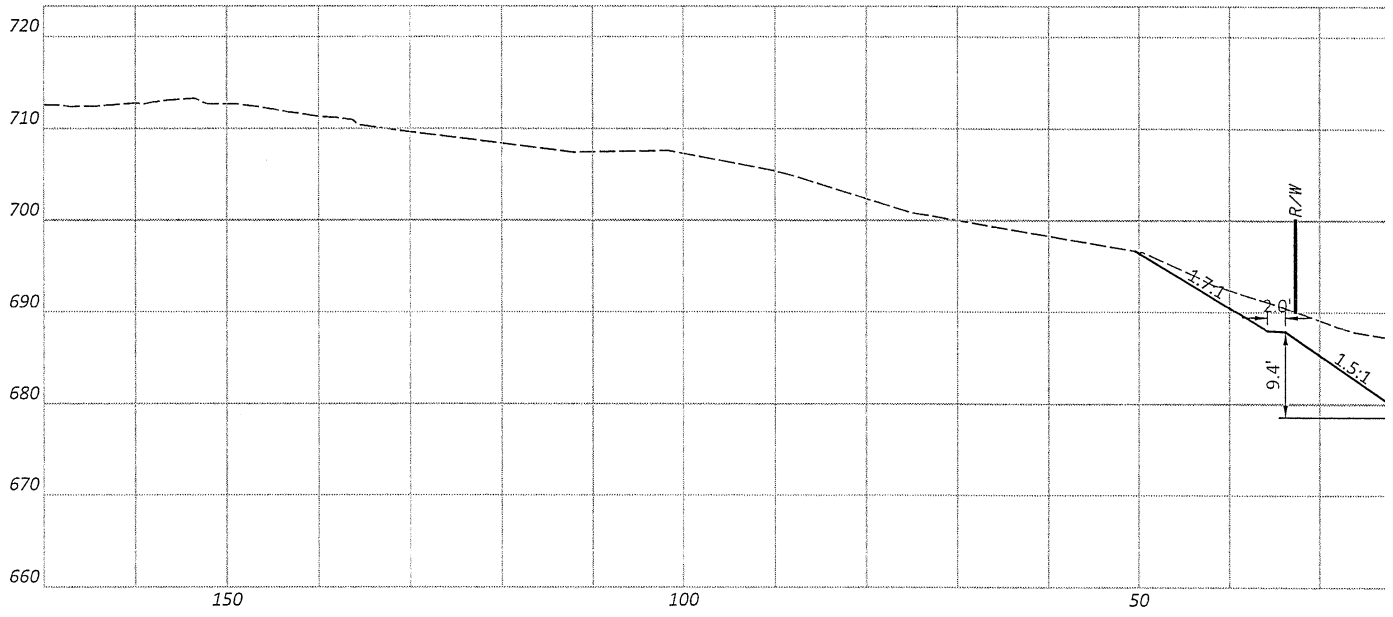


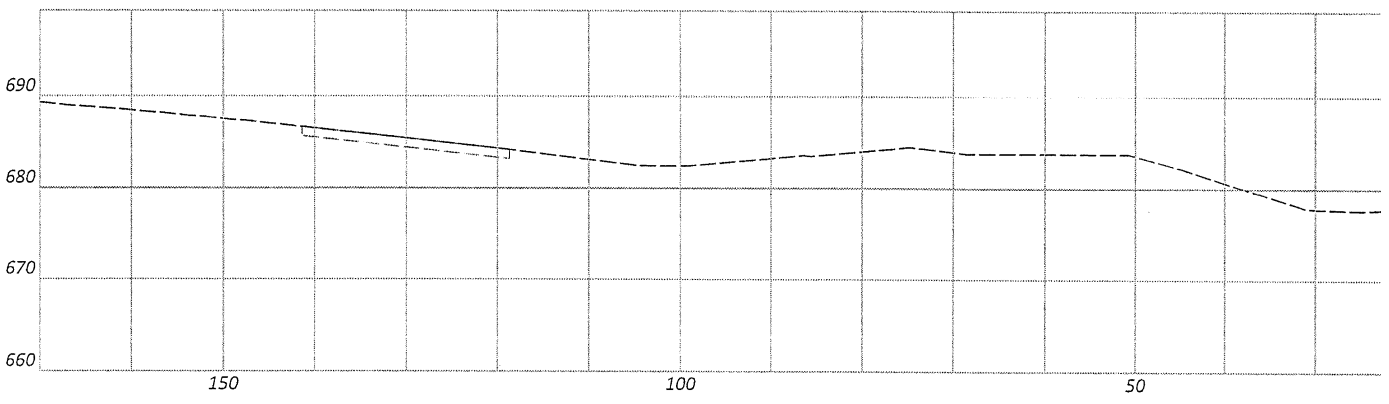




EARTHWORK CORRECTI					
STA.	CENTROID GRADING (FT)	CURVE RADIUS (FT)	CORRECTED RADIUS(FT)	ALIGNMENT FACTOR	COI
10+75	17.0	211.64	-	-	
11+05	58.9	211.64	173.69	0.82069	
11+25	59.9	211.64	152.24	0.71933	
11+55	54.5	211.64	154.44	0.72973	
11+75	48.9	211.64	159.94	0.75572	
12+00	44.0	100.00	53.55	0.53550	
12+25	44.6	100.00	55.70	0.55700	
12+50	44.4	100.00	55.50	0.55500	
12+75	44.6	100.00	55.50	0.55500	
13+00	44.5	100.00	55.45	0.55450	
13+20	44.4	100.00	55.55	0.55550	
13+50	55.8	100.00	49.90	0.49900	

EAR	
SHEET	CUT (
12	6
13	28
14	986
15	193
16	160
17	170
18	168
19	163
20	619
21	4
TOTALS	1020

QUANTIT



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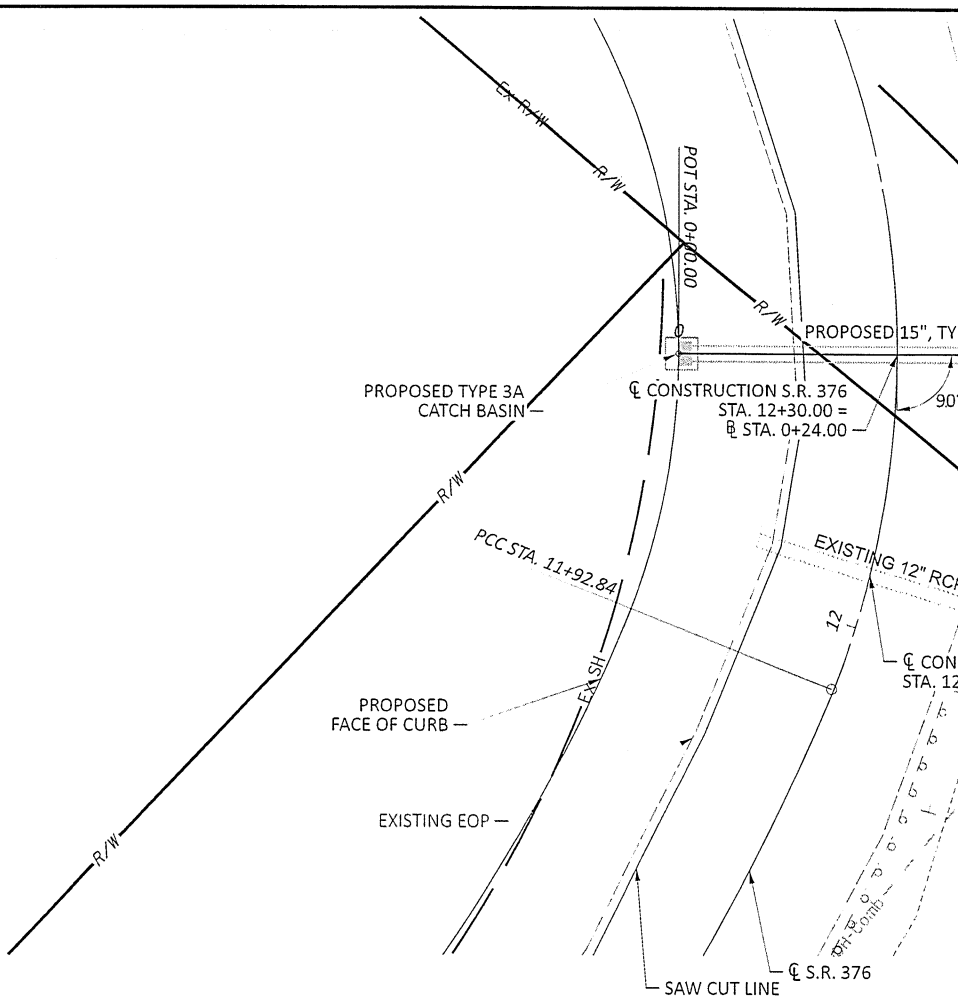
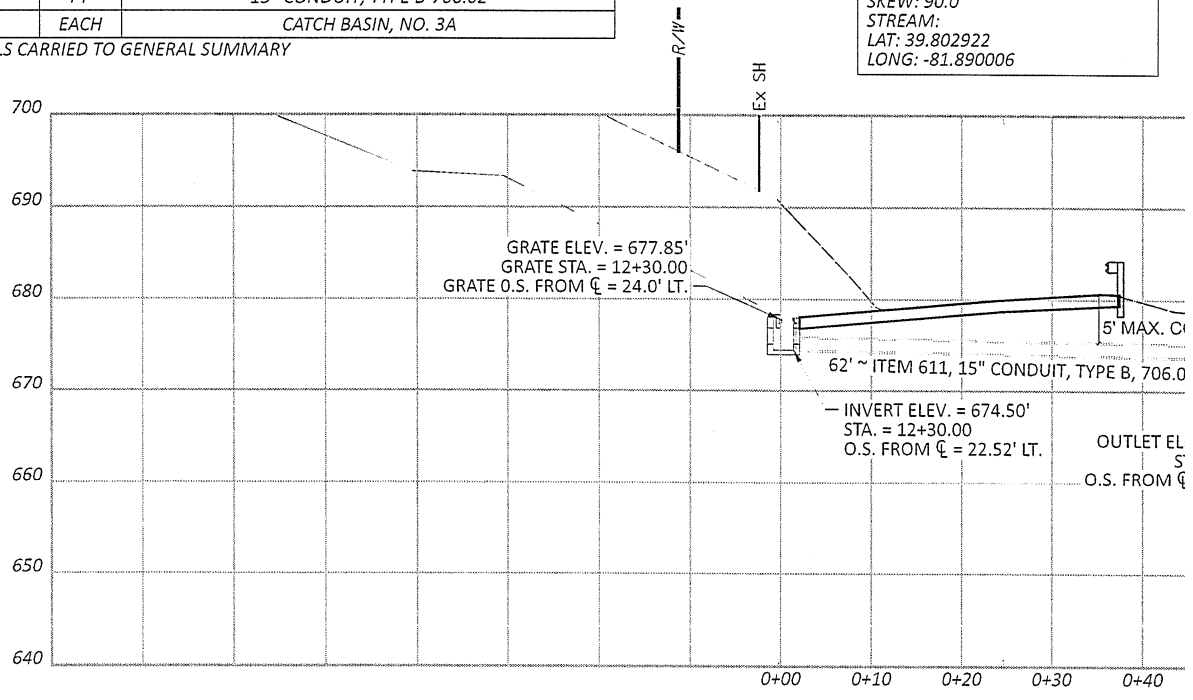


ITEM	QUANTITY	UNIT	DESCRIPTION
202	38	FT	FILL AND PLUG EXISTING CONDUIT -12"
601	7	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT
611	62	FT	15" CONDUIT, TYPE B-706.02
611	1	EACH	CATCH BASIN, NO. 3A

TOTALS CARRIED TO GENERAL SUMMARY

EXISTING STRUCTURE
CFN: 1804492 TYPE: REINFORCED CONCRETE PIPE DIAMETER: 12" LENGTH: 38' SKEW: 90.0° STREAM: LAT: 39.802922 LONG: -81.890006



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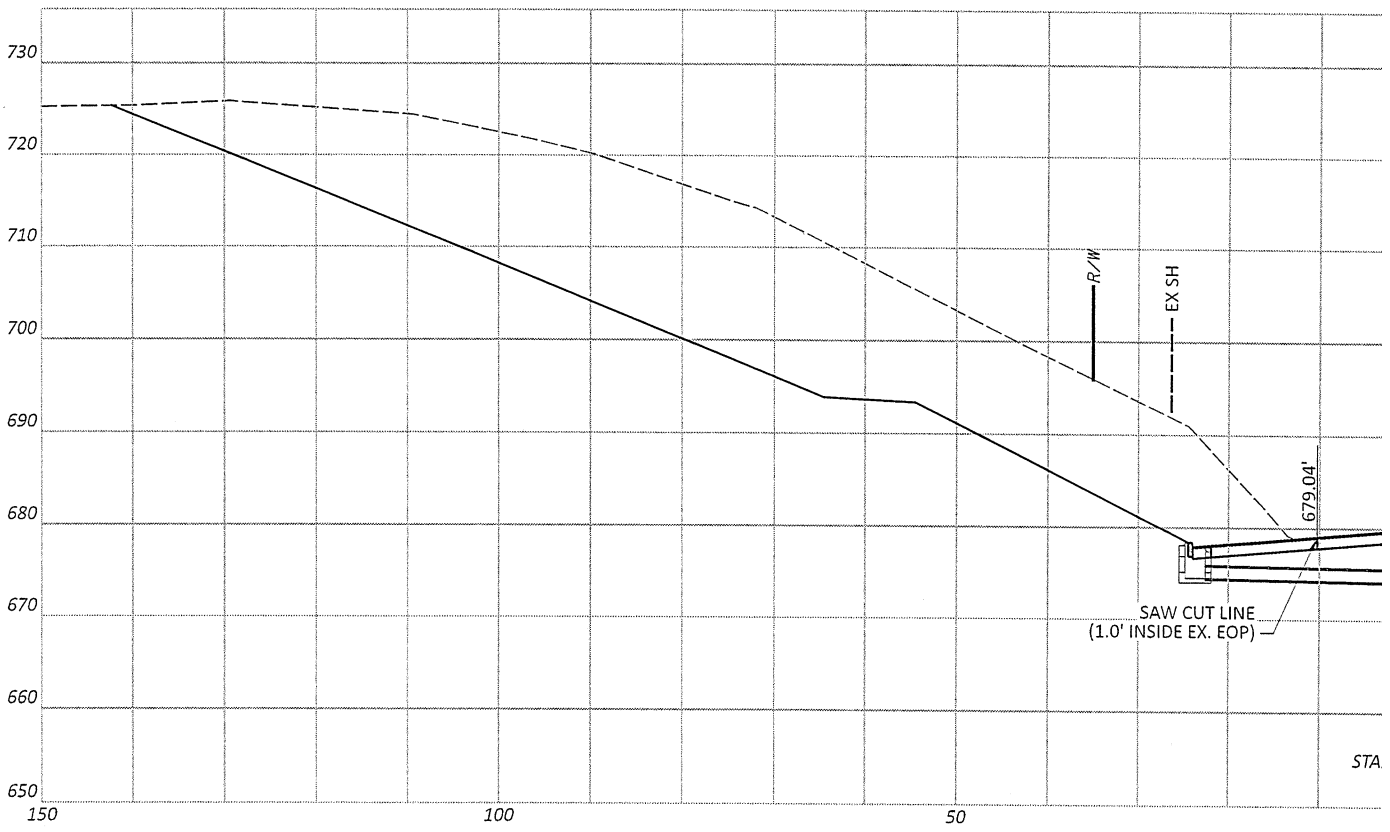

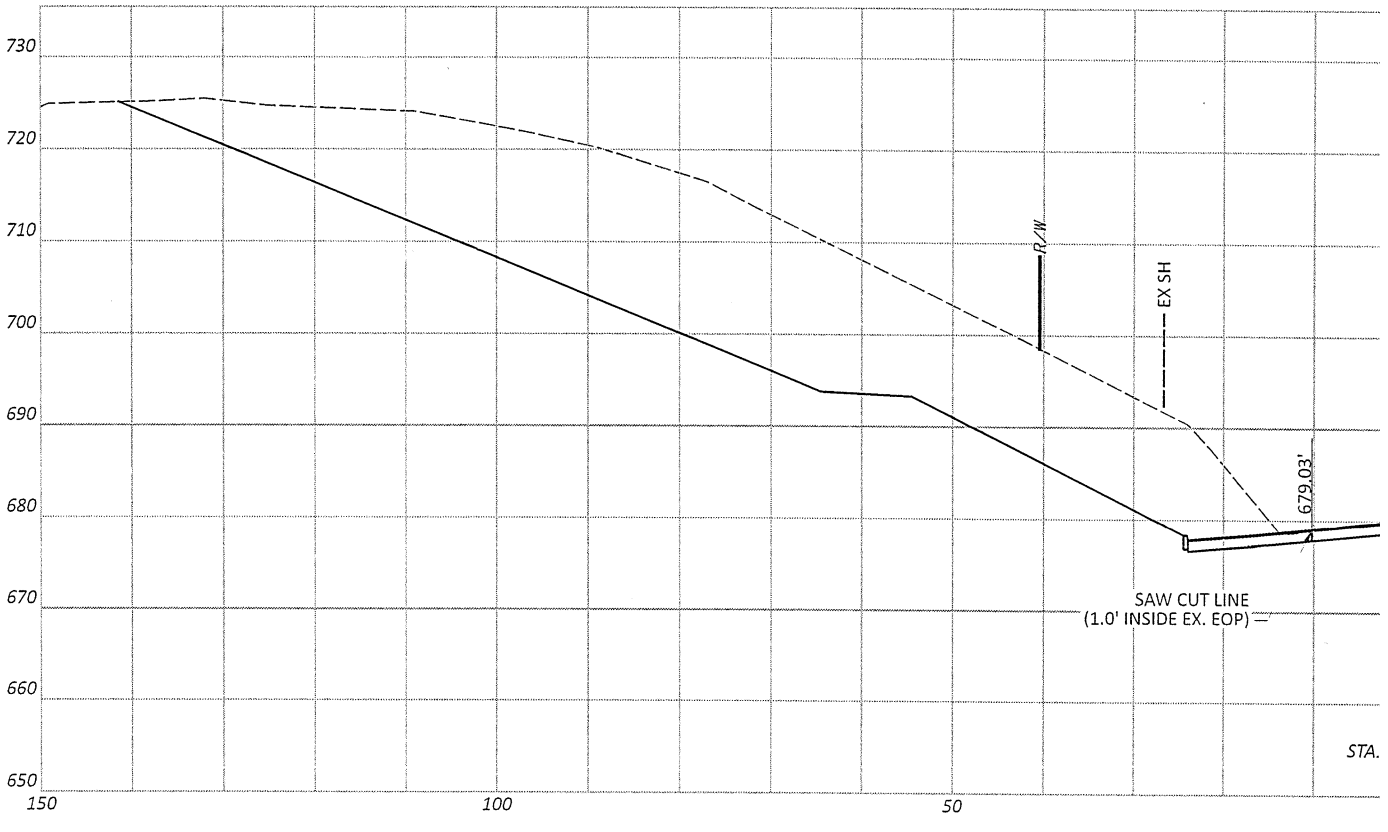

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	EART
SHEET	CUT ((
27	1
28	1
TOTALS	2

QUANTIT