

ESTIMATED PROJECT QUANTITIES


100-1C
MODIFIED

ITEM CODE	ITEM	UNIT	ESTIMATED				ACTUAL				TOTAL	
			SITE #1		SITE #2		SITE #1		SITE #2		P&I	NON
			P&I	NON	P&I	NON	P&I	NON	P&I	NON	P&I	NON
2102-0425071	SPECIAL BACKFILL	TONS	6283	0	217	77					6500	77
2102-2713090	EXCAVATION, CLASS 10 ROADWAY & BORROW	C.Y.	42947	0	1897	0					44844	0
2123-7450000	SHOULDER CONSTRUCTION, EARTH	STA.	136.0	0	6.1	1.5					143.6	1.5
2301-1032060	STANDARD OR SLIP FORM PC CONCRETE PAVEMENT, CLASS C CLASS 2 DURABILITY, 6 IN.	SQ. YD.	16622	0	492	255					17114	255
2510-6750501	REMOVAL AND CRUSHING OF PAVEMENT	S.Y.	12997	0	695	232					13692	232
2528-8445110	TRAFFIC CONTROL	L.S.	0.5	0	0.5	0					1.0	0
2533-4980005	MOBILIZATION	L.S.	0.5	0	0.5	0					1.0	0
2601-2636043	SEEDING AND FERTILIZING (RURAL)	ACRE	16.5	0	1.5	0.5					18.0	0.5
2602-0000020	SILT FENCE	L.F.	14600	0	800	0					15400	0
2602-0000060	REMOVAL OF SILT FENCE	L.F.	14600	0	800	0					15400	0

ESTIMATE REFERENCE INFORMATION	
Date listed below is for informational purposes only and shall not constitute a basis for any extra work orders.	
ITEM CODE	DESCRIPTION
2102-2713090	<ul style="list-style-type: none"> - All stationing is approximate. - Quantities have been increased 10% to allow for irregularities. - The road will be closed to traffic for the duration of the project. - Blading and Shaping of existing roadway is incidental to Excavation Bid Item. - Edges where new construction abuts existing pavement to be saw cut, and shall be incidental to Excavation Bid Item.

06-07-94 The top six (6) inches of the disturbed areas shall be free of rock and debris and shall be suitable for the establishment of vegetation, subject to the approval of the DNR Project Engineer.	232-8
09-29-92 The contractor is encouraged to take full advantage of specification 1105.15 - Value Engineering Incentive Proposal. A pamphlet and conceptual proposal form will be available at the preconstruction conference.	203-4
10-29-02 It shall be the contractor's responsibility to provide waste areas or disposal sites for excess material (excavated material or broken concrete) which is not desirable to be incorporated into the work involved on this project. These areas shall not impact wetlands or "Waters of the U.S." No payment for overhaul will be allowed for material hauled to these sites. No material shall be placed within the right-of-way, unless specifically stated in the plans.	213-1
04-30-02 Unless otherwise directed or authorized, all hot mix asphalt and other bituminous materials which are not specifically addressed or described in the plans shall become the property of the Contractor. The Contractor, in accordance with current rules and regulations of the Iowa Department of Natural Resources, may: 1.) With the approval of the Engineer, blend or otherwise process the material for use with shoulder or special backfill aggregate, for use on the project. 2.) With the approval of the Engineer, place with material in areas designated by the Engineer as soil aggregate subbase without extra charge. 3.) Remove the material from the project and stockpile for the Contractor's future use.	213-7
01-20-84 The contractor shall not disturb desirable grass areas and desirable trees outside the construction limits. The contractor will not be permitted to park or service vehicles and equipment or use these areas for storage of materials. Storage, parking and service areas will be subject to the approval of the DNR Project Engineer.	232-5

TRAFFIC CONTROL PLAN
<ol style="list-style-type: none"> During each stage of construction, refer to Estimate Reference Information section for road closure information. Traffic control on this project shall be in accordance with Standard Road Plans TC-252. For additional complementary information refer to current "Supplemental Specification for Traffic Controls". All traffic control devices shall be furnished, erected, maintained and removed by the contractor. The location for parking and storage of equipment by the contractor will be as approved by the engineer in charge of construction. Article 2528.12 of the Standard Specifications requires maintenance of all traffic control devices, including maintenance of the devices during nonworking hours in order to assure proper operation. Where possible, all post mounted signs shall be placed a minimum of 2 feet beyond the curb or edge of shoulder. When used for traffic control or protection of the work site, safety fence must be firmly supported in a vertical position. Related costs will be included in the traffic control bid item. Proposed sign spacing may be modified, as approved by the engineer, to meet existing field restrictions or to prevent obstruction of the motorist's view of permanent signing. Permanent signing conveying messages contrary to the message of the temporary signing and not applicable to the working conditions shall be covered by the contractor when directed by the engineer. Proposed changes in the traffic control plan shall be reviewed with the office of construction before changes are made. The bid item, "Traffic Control" shall include the cost for all traffic control measures, required of the contractor except for those which are separate bid items or are incidental to other bid items.

DNR MODIFIED The contractor shall check for location of utilities, drainage, or other facilities in the construction area. Any damage to such facilities due to the contractor's carelessness shall be corrected at his own expense.	201-1
03-28-95 EROSION CONTROL: Following completion of work on this project seeding, fertilizing, and mulching of all disturbed areas shall be done as approved by the engineer. SEEDING: 3 lbs. of Fescue, Kentucky 31 or Fawn per 1000 sq. ft. FERTILIZER: 17 lbs. of 13-13-13 (or equivalent) chemically combined fertilizer per 1000 sq. ft. MULCH: 70 lbs. of dry cereal straw per 1000 sq. ft. All mulch to be consolidated into the soil with the mulch stabilizer.	232-3
 IOWA DEPARTMENT OF NATURAL RESOURCES ENGINEERING BUREAU RIVERTON WMA ESTIMATE OF QUANTITIES & GENERAL NOTES FREMONT COUNTY	

DESIGNED BY: MKJ TRACED BY: _____
 DETAILED BY: _____ CHECKED BY: _____

FREMONT COUNTY

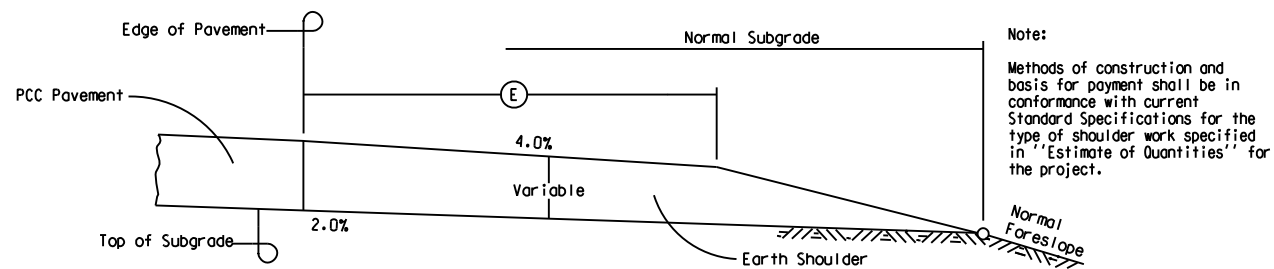
PROJECT NUMBER D. N. R. 10-04-36-02
 FEMA PW NO. 2081

STATE	FHYA REGION	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
IOWA	6	09	2	16

JAN 2011

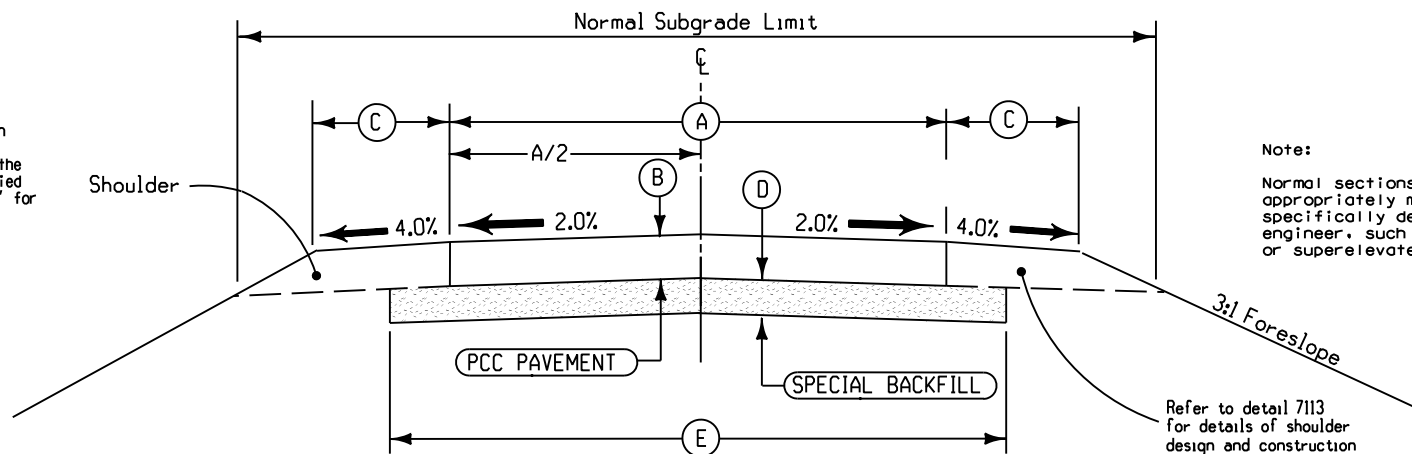
7113
MODIFIED

MODIFIED
03-08-07



LOCATION		E Feet	SIDE
STATION TO STATION			
0+00	68+00	4	L.R
253+78	255+64	4	L.R
255+64	260+00	4	L.R

TYPICAL SECTION
EARTH SHOULDER
Adjacent to PCC Pavement



TYPICAL CROSS SECTION
MAIN ROADWAY

LOCATION		A	B	C	D	E	SHLDR QUAN. STA.	SPECIAL BACKFILL QUAN. * (TONS) +10%	PCC PAVING (SQ. YD.) +10%
ROAD IDENTIFICATION	STATION TO STATION	Feet	Inches	Feet	Inches	Feet			
SITE 1 - MAINLINE ROADWAY	0+00 - 68+00	20	6	4	6	24	136.0	6283	16622
SITE 2 - BOAT RAMP SIDE ROAD	253+78 - 257+60	16	6	4	6	20	7.64	294	747
TOTAL							143.64	6577	17369

* QUANTITY REQUIRED IF ENTIRE SITE IS BACKFILLED ONLY WITH SPECIAL BACKFILL

SITE 1 - MAINLINE

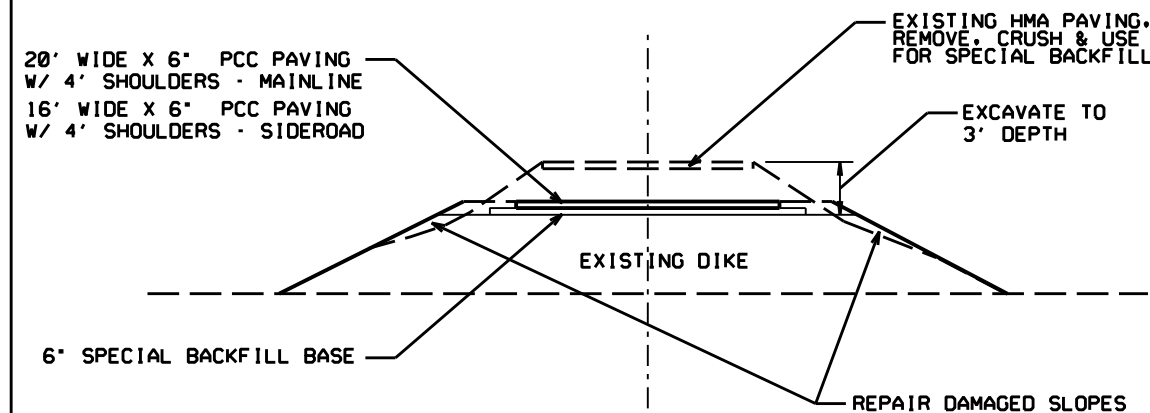
- From STA. 0+00 to STA. 68+00, remove existing HMA pavement and excavate approx. 3' depth, use to repair slopes.
- From STA. 0+00 to STA. 68+00, pave 20' wide with 6" PCC over 6" special backfill.
- Place 4' earth fillets along pavement, refer to detail 7113.
- Existing HMA pavement shall be removed, crushed and may be used as special backfill.

SITE 1 ESTIMATED QUANTITIES				
ITEM	UNIT	P & I	NON P&I	
SPECIAL BACKFILL	TONS	6132	0	
PC CONCRETE, CLASS "C" TYPE 2 DUR.	S.Y.	17865	0	
SHOULDER CONSTRUCTION, EARTH	STA.	146.0	0	

SITE 2 - SIDEROAD

- From STA. 253+78 to STA. 257+60, remove existing HMA pavement and excavate approx. 3' depth, use to repair slopes.
- From STA. 253+78 to STA. 257+60, pave 16' wide with 6" PCC over 6" special backfill.
- From STA. 257+10 to STA. 257+60, pave parking area, 32' wide with 6" PCC over 6" special backfill.
- Place 4' earth fillets along pavement, refer to detail 7113.
- Existing HMA pavement shall be removed, crushed and may be used as special backfill.

SITE 2 ESTIMATED QUANTITIES				
ITEM	UNIT	P & I	NON P&I	
SPECIAL BACKFILL	TONS	217	77	
PC CONCRETE, CLASS "C" TYPE 2 DUR.	S.Y.	492	255	
SHOULDER CONSTRUCTION, EARTH	STA.	7.6	1.5	



RIVERTON DIKE - EXCAVATION DETAIL

DNR IOWA DEPARTMENT OF NATURAL RESOURCES
ENGINEERING BUREAU

**RIVERTON WMA
ROADWAY RECONSTRUCTION
FREMONT COUNTY**

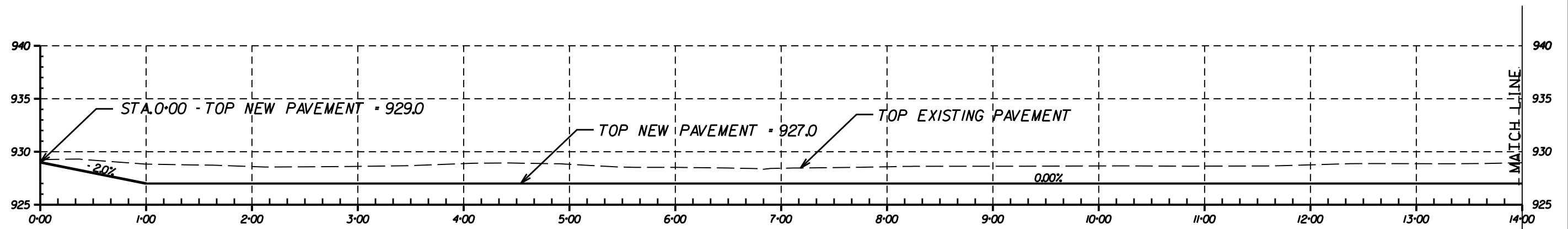
JAN 2011

DESIGNED BY MKJ TRACED BY _____
DETAILED BY _____ CHECKED BY _____

FREMONT COUNTY

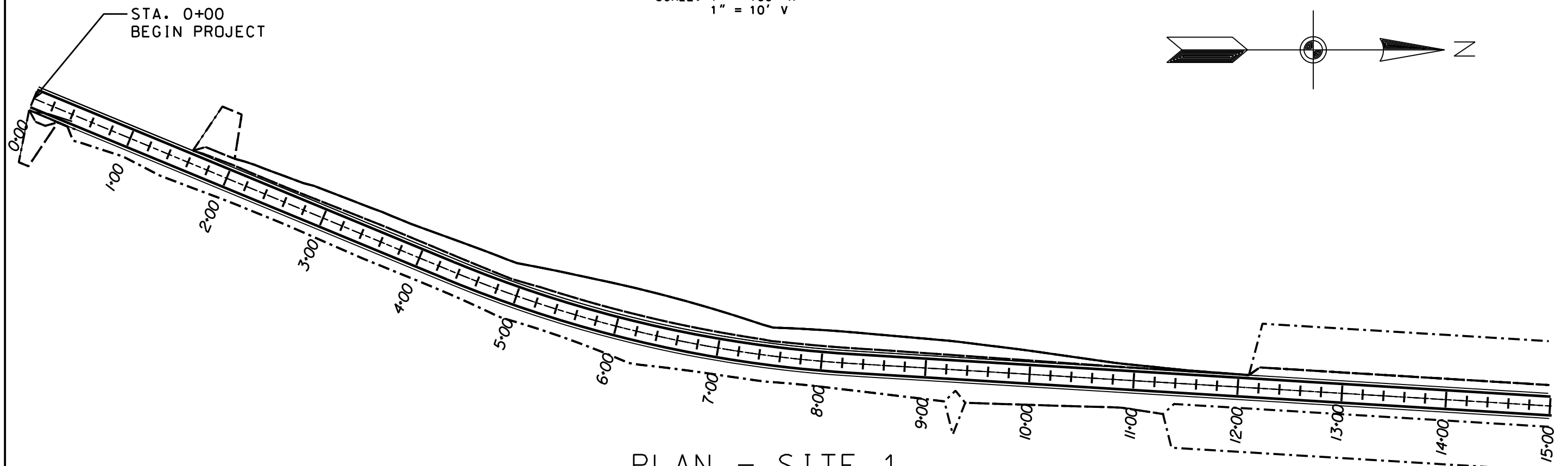
PROJECT NUMBER D. N. R. 10-04-36-02
FEMA PW NO. 2081

STATE	FEMA REGION	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
IOWA	6	09	3	16



PROFILE

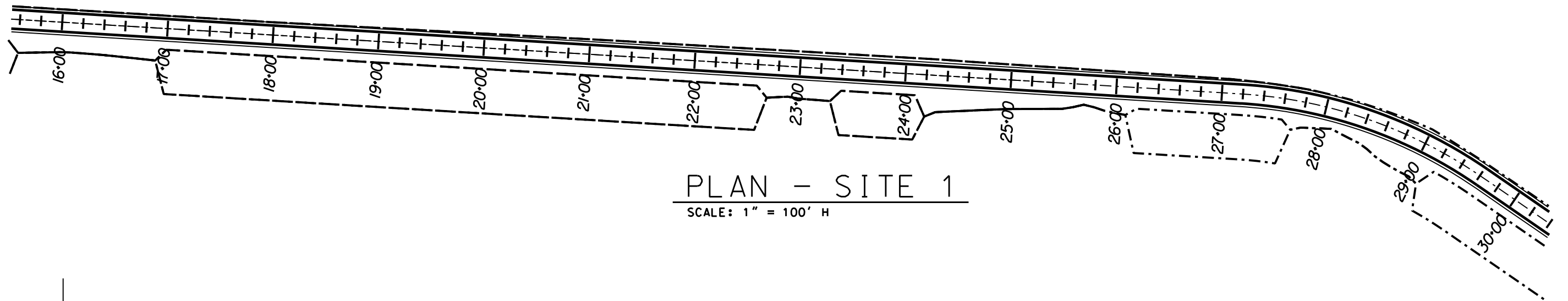
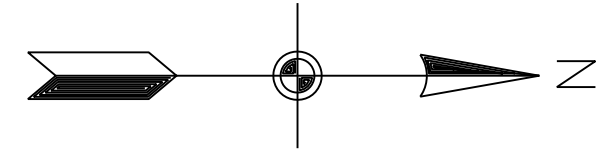
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1" = 10' V



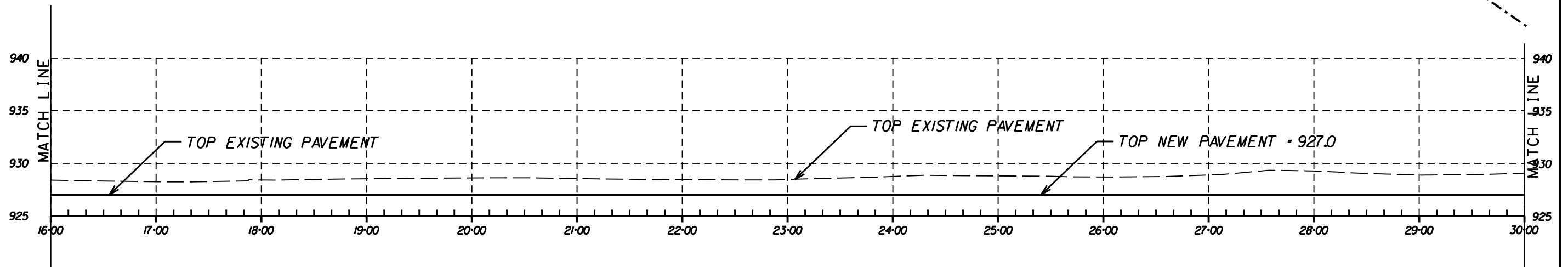
PLAN - SITE 1

SCALE: 1" = 100' H

TITLE ROADWAY PLAN & PROFILE - SITE 1 DRAWN BY MKJ DATE JAN '11
PROJECT RIVERTON FLOOD DAMAGE REPAIRS COUNTY FREMONT PROJ. NO. 09-04-36-05
SHEET 4 OF 16

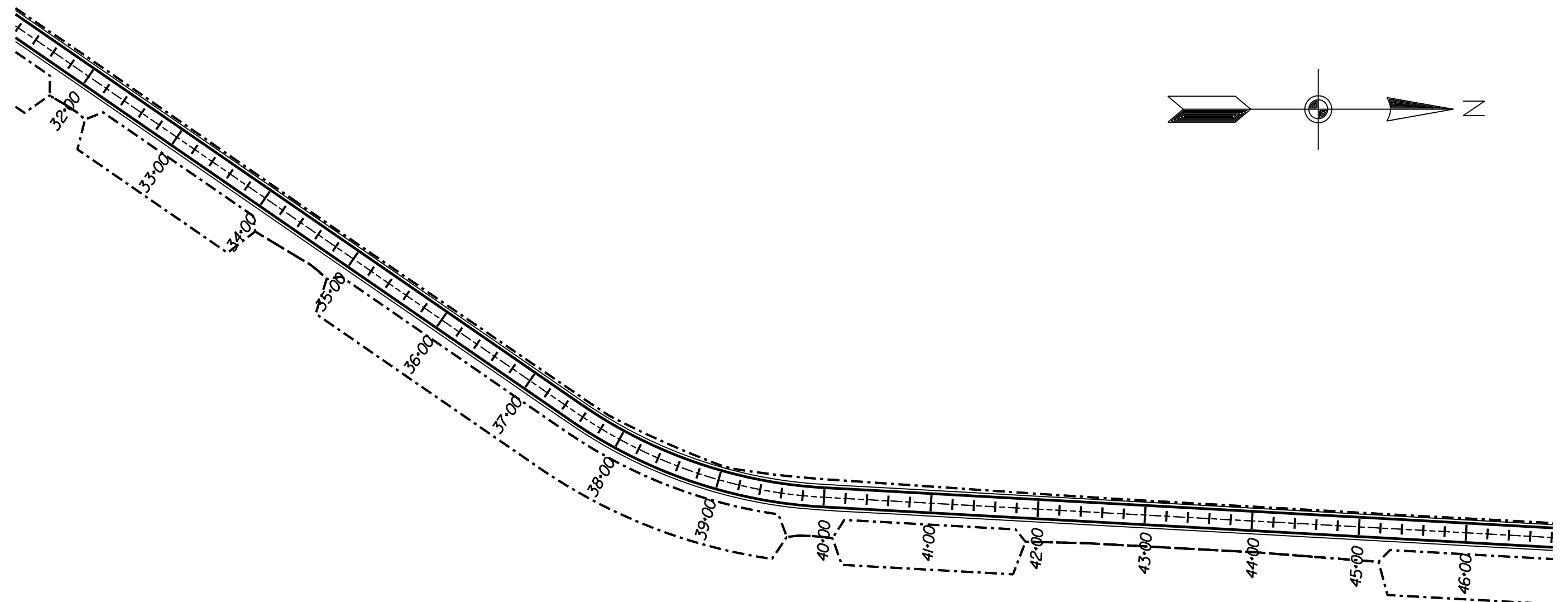


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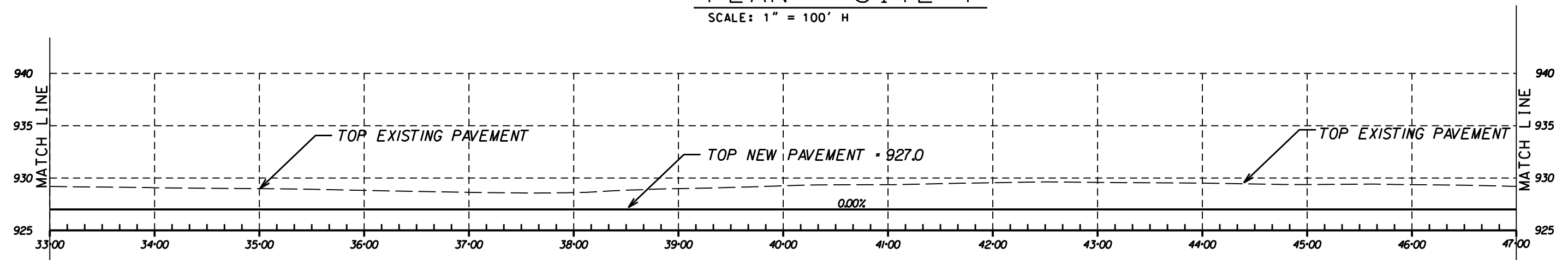


PROFILE
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TITLE ROADWAY PLAN & PROFILE - SITE 1 DRAWN BY MKJ DATE JAN '11
 PROJECT RIVERTON FLOOD DAMAGE REPAIRS COUNTY FREMONT PROJ. NO. 09-04-36-05
 SHEET 5 OF 16

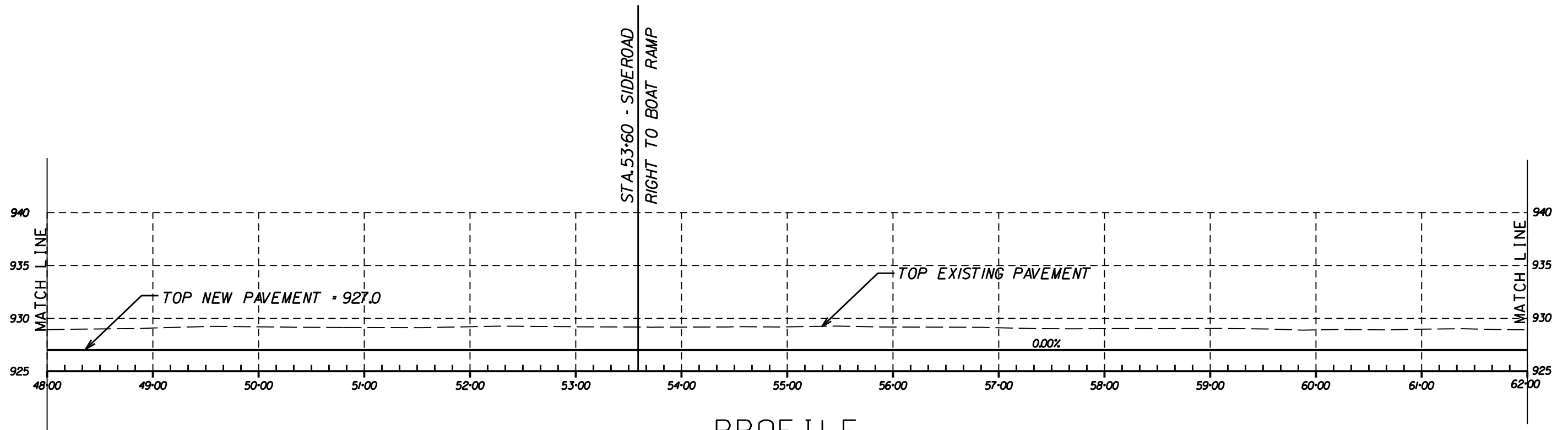


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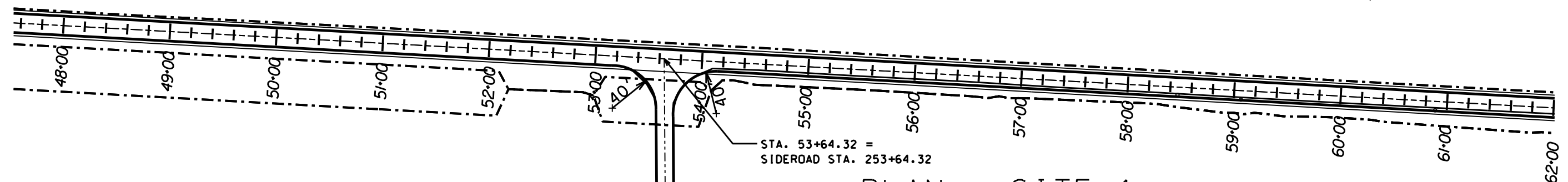
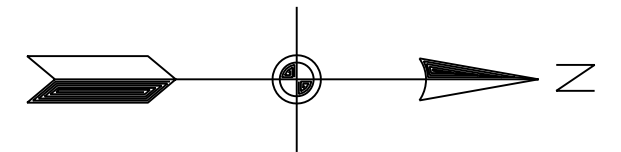


PROFILE
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TITLE ROADWAY PLAN & PROFILE - SITE 1 DRAWN BY MKJ DATE JAN '11
PROJECT RIVERTON FLOOD DAMAGE REPAIRS COUNTY FREMONT PROJ. NO. 09-04-36-05
SHEET 6 OF 16



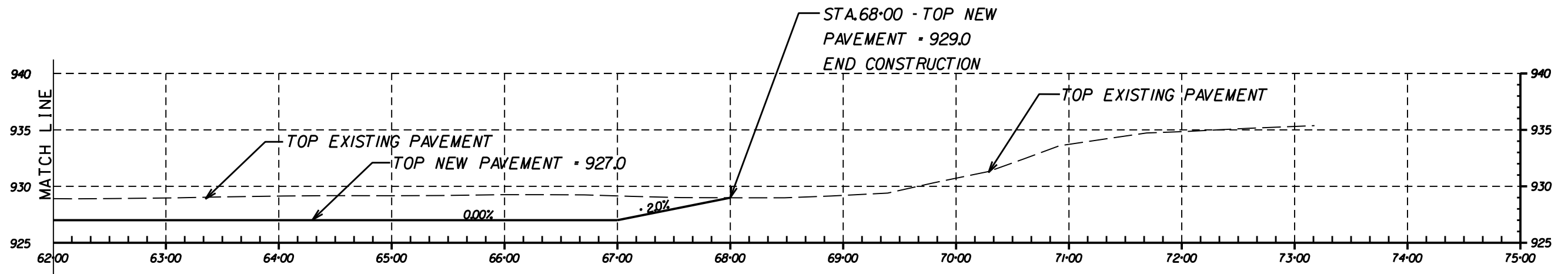
PROFILE
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PLAN - SITE 1
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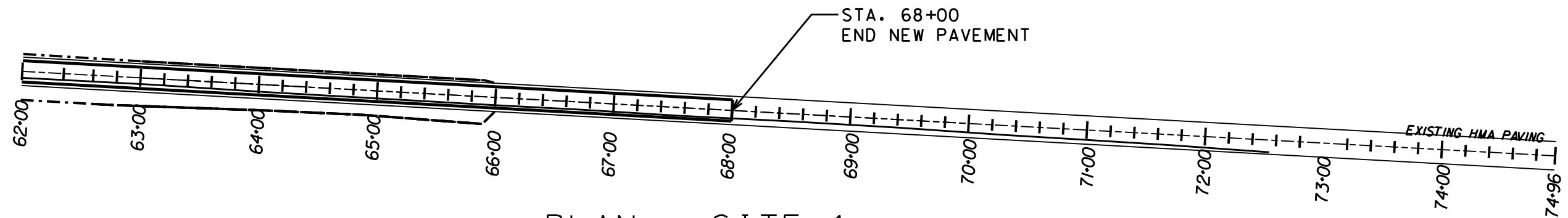
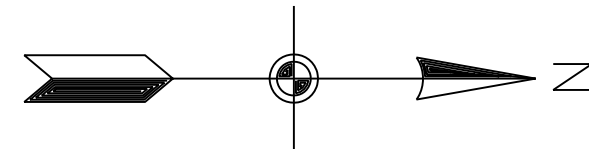
PLAN - SITE 2

TITLE	ROADWAY PLAN & PROFILE - SITE 1 AND SITE 2	DRAWN BY	MKJ	DATE	JAN '11
PROJECT	RIVERTON FLOOD DAMAGE REPAIRS	COUNTY	FREMONT	PROJ. NO.	09-04-36-05
				SHEET	7 OF 16



PROFILE

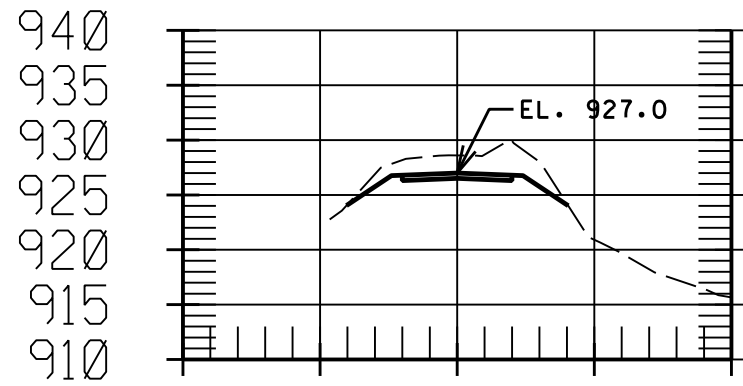
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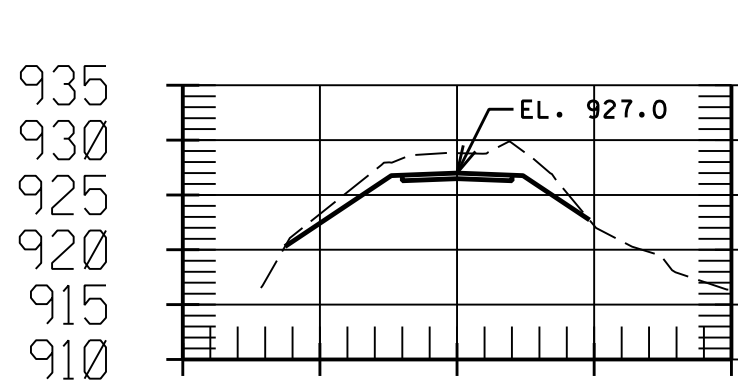
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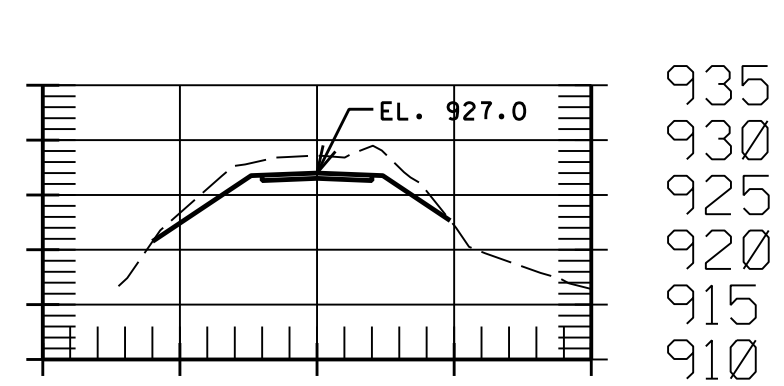
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 PROJECT RIVERTON FLOOD DAMAGE REPAIRS COUNTY FREMONT PROJ. NO. 09-04-36-05
 SHEET 8 OF 16



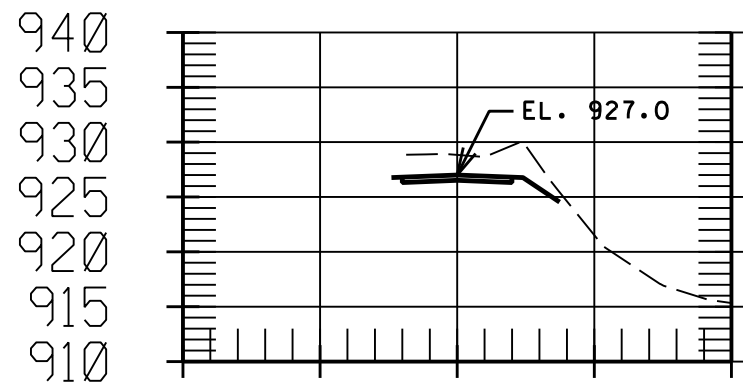
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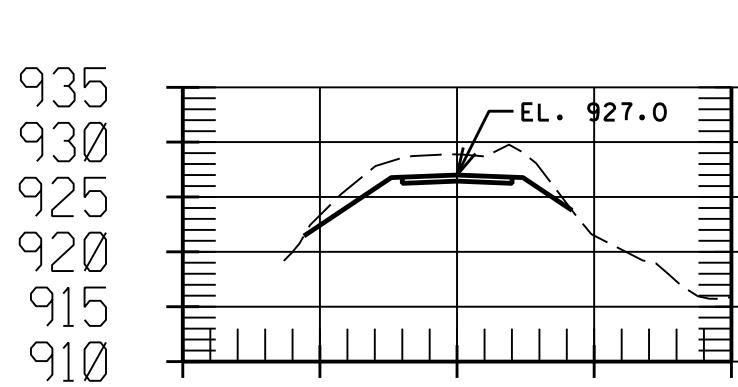
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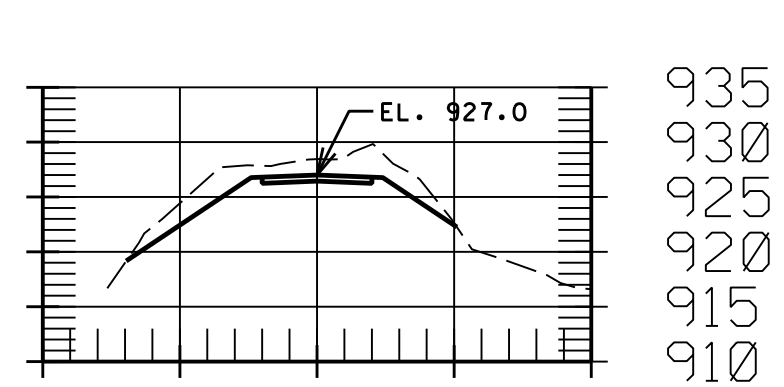
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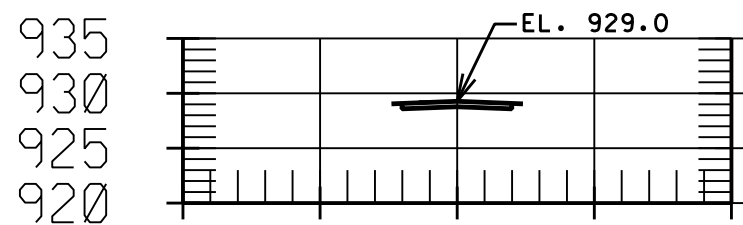
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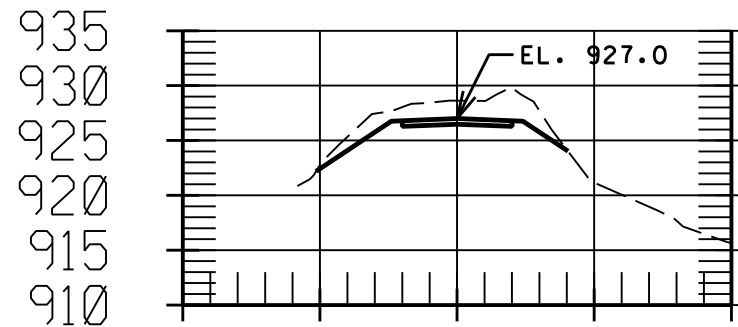
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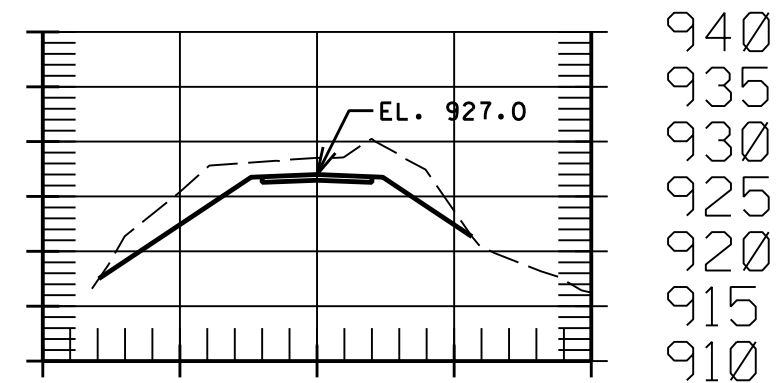
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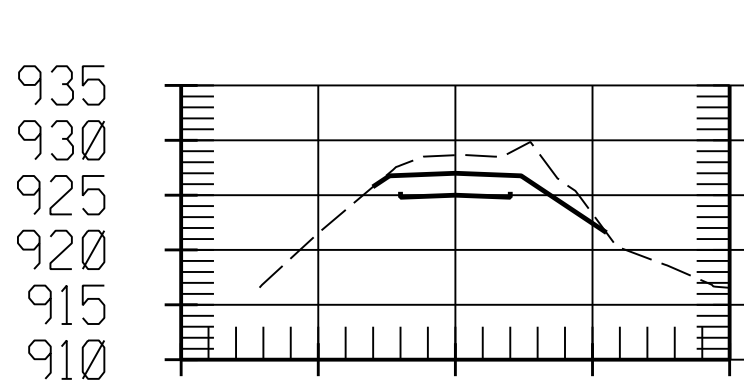
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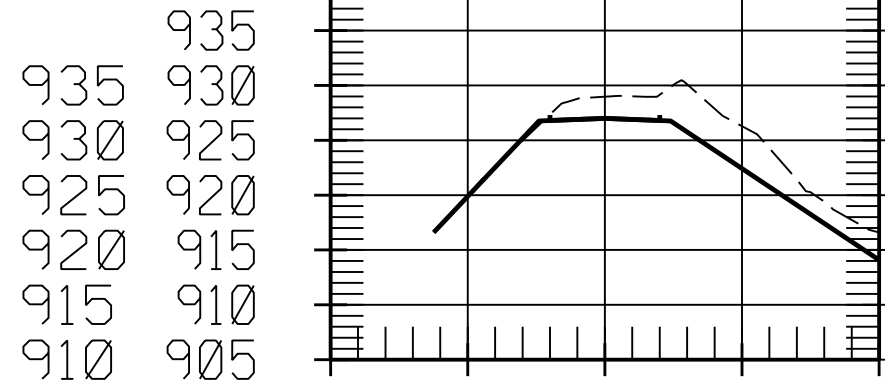
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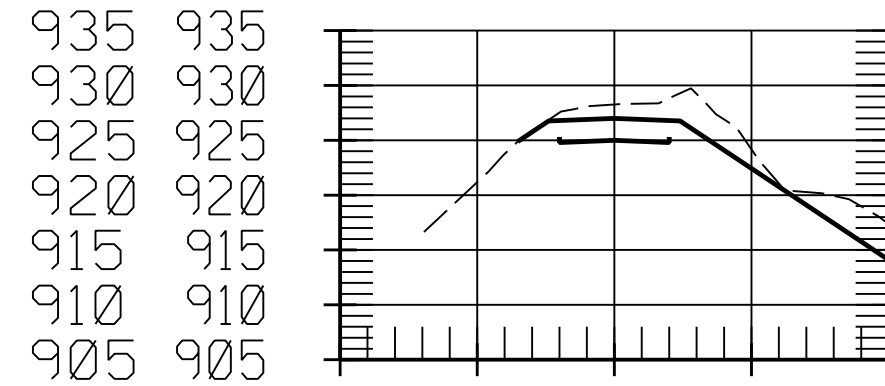
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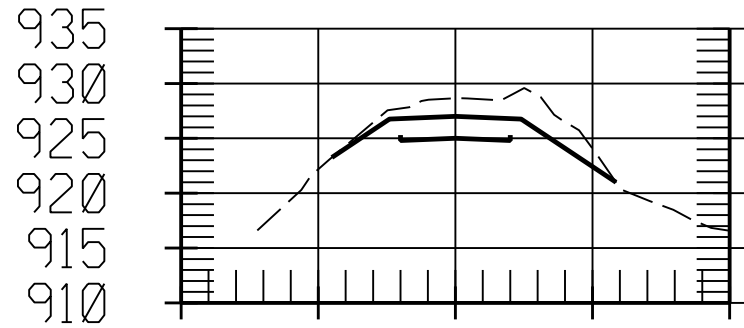
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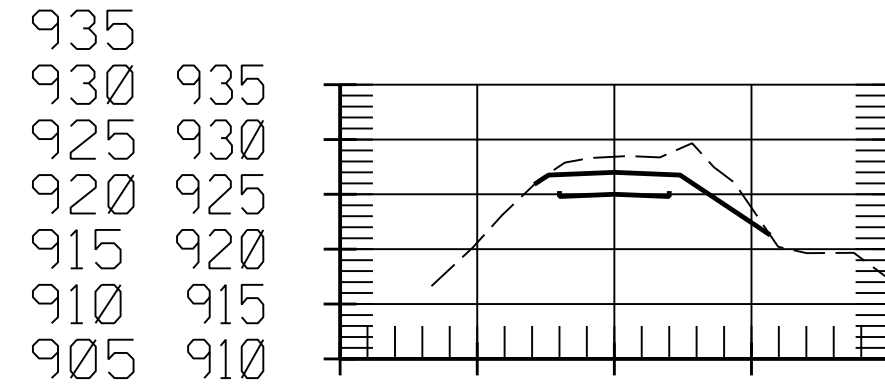
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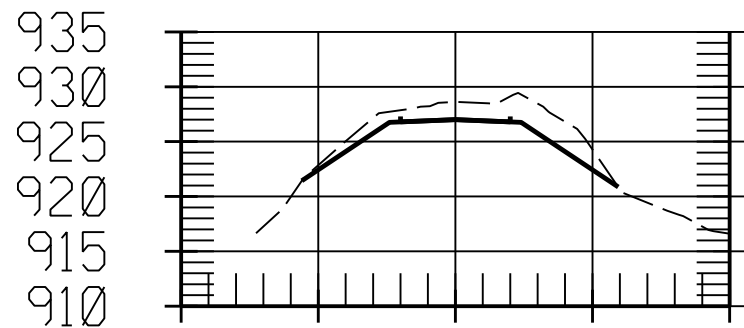
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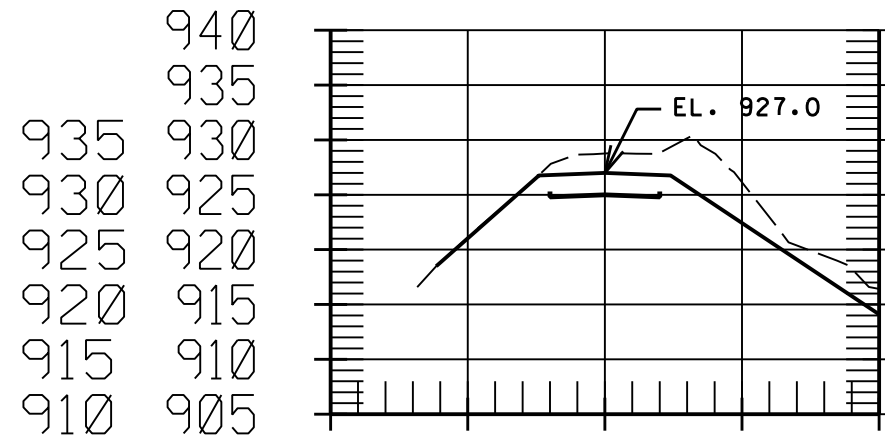
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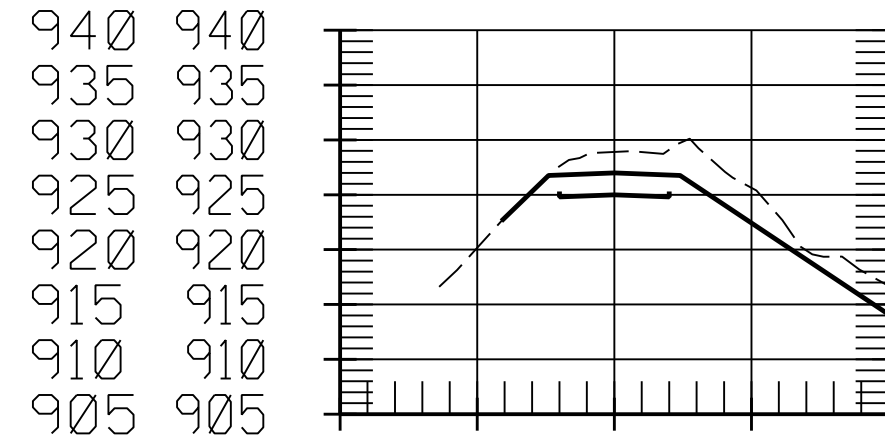
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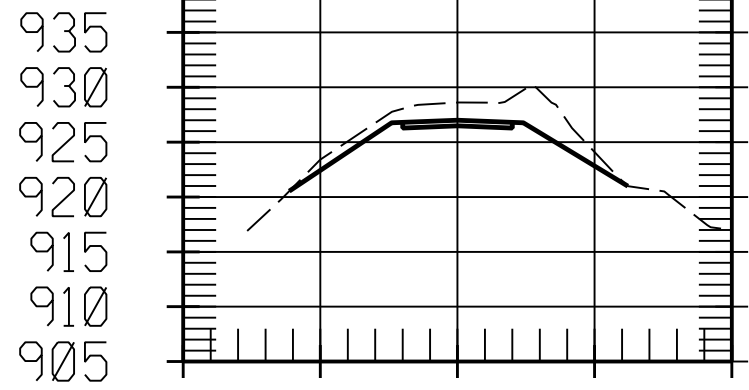


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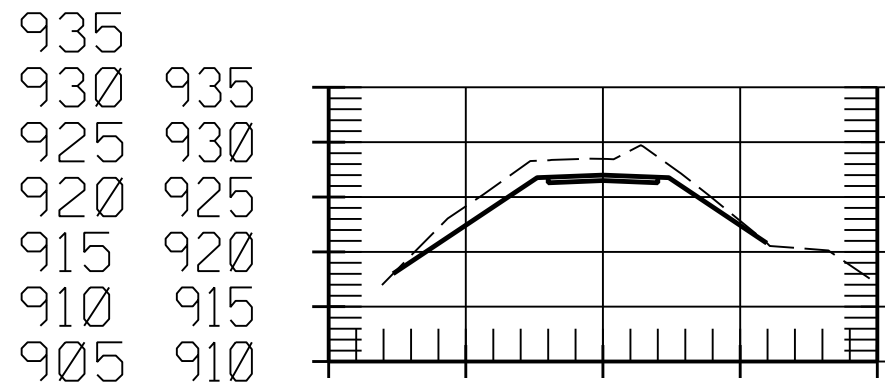


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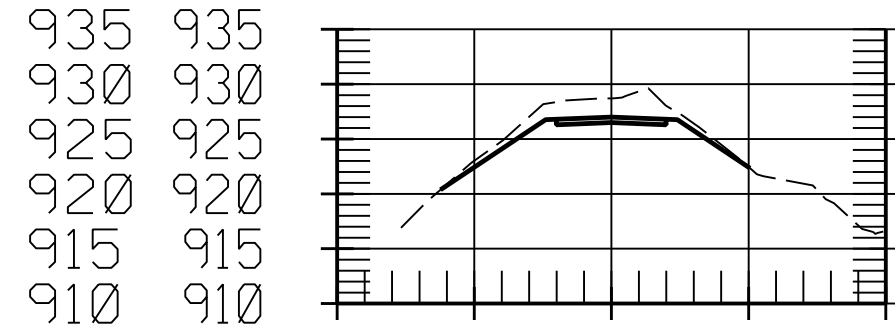
TITLE CROSS SECTIONS DRAWN BY MKJ DATE JAN '11
 PROJECT RIVERTON FLOOD DAMAGE REPAIRS COUNTY FREMONT PROJ. NO. 09-04-36-05
 SHEET 10 OF 16



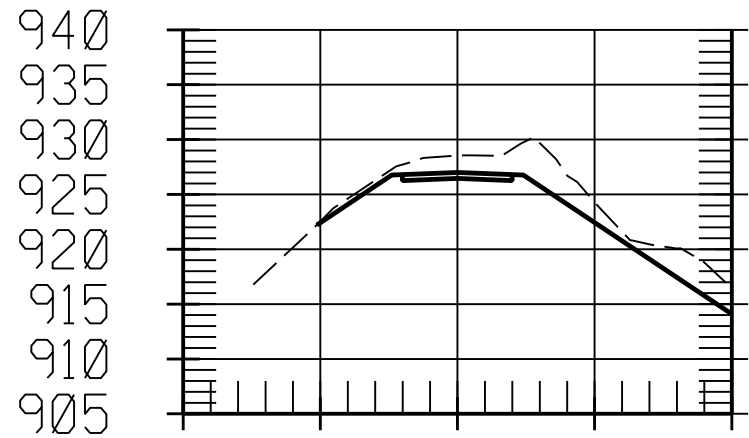
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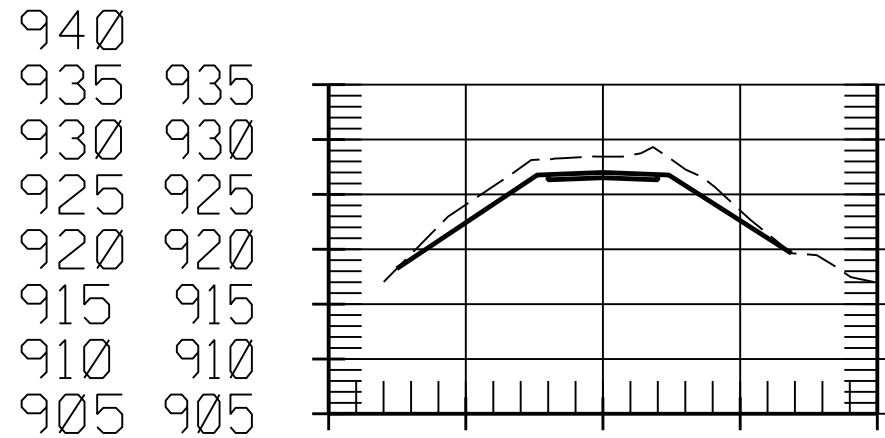
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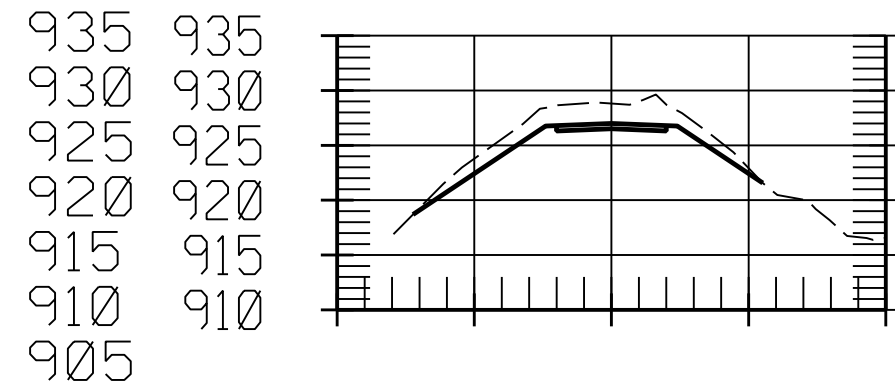
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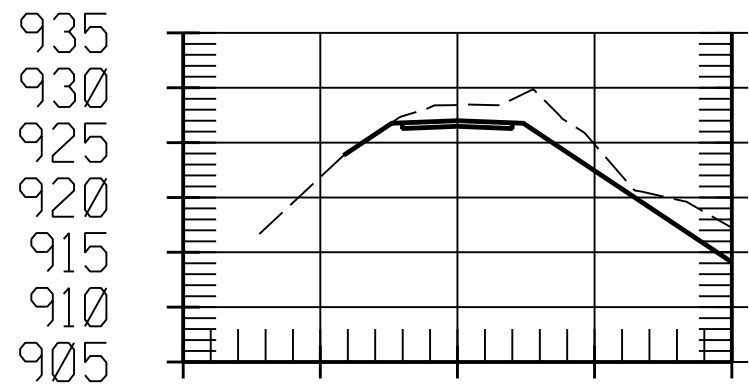
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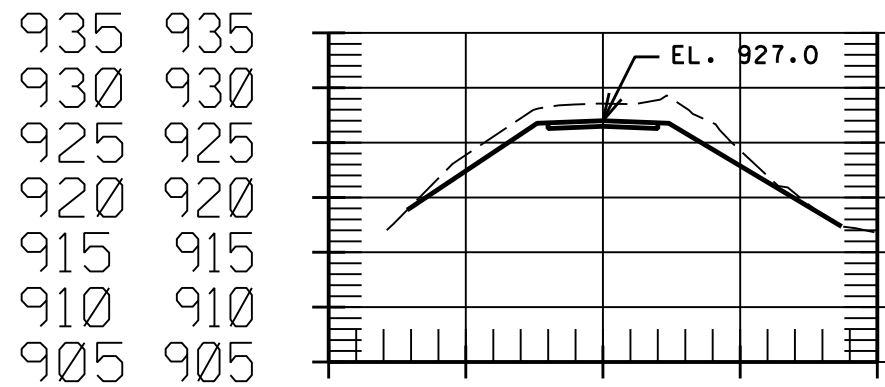
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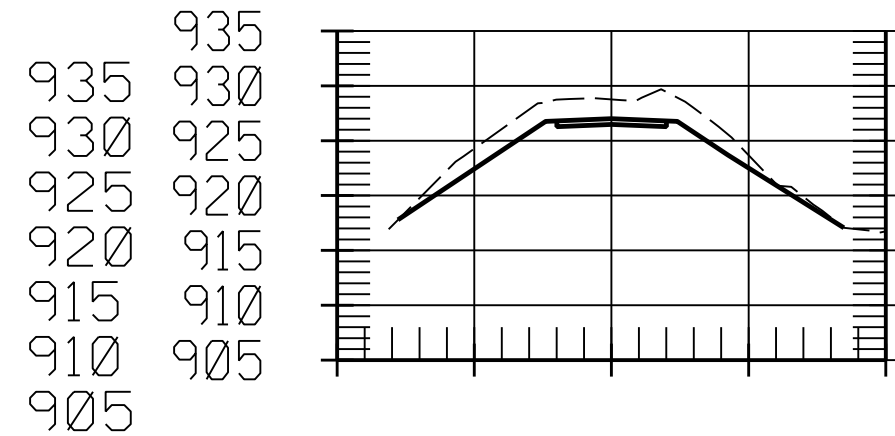
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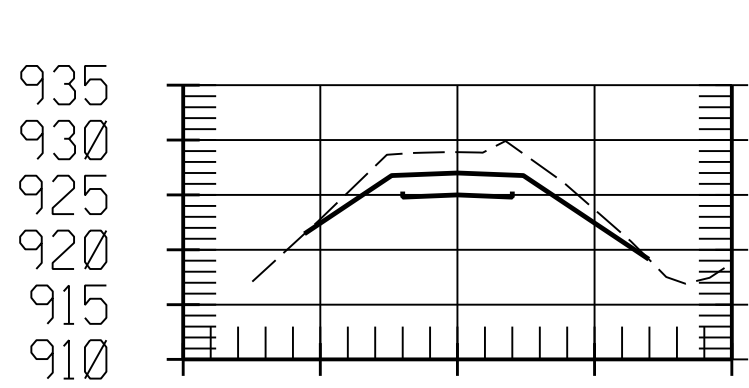
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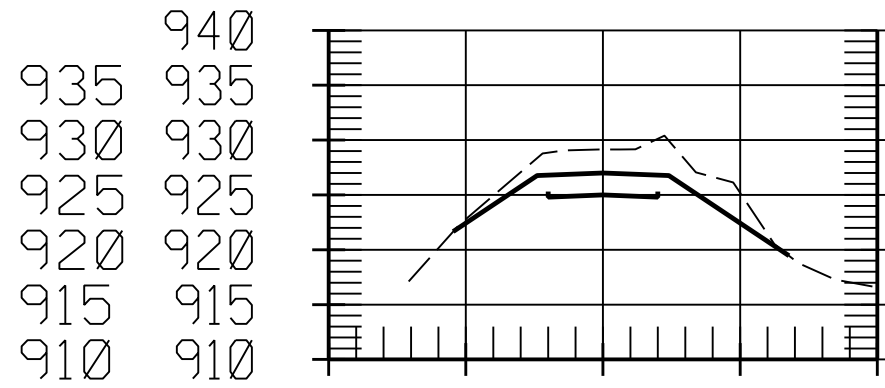
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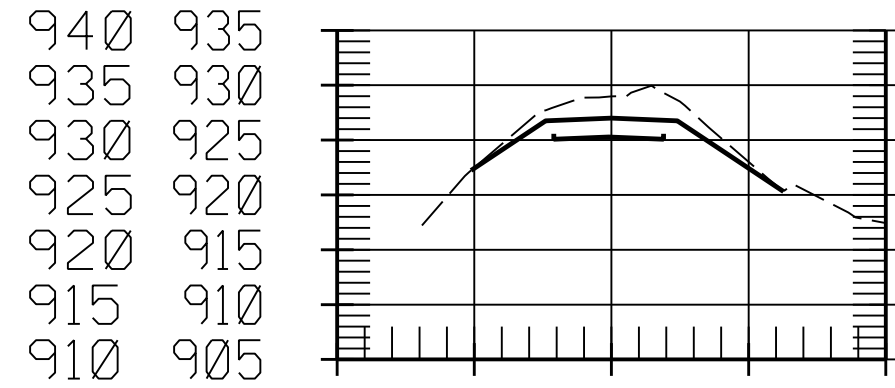
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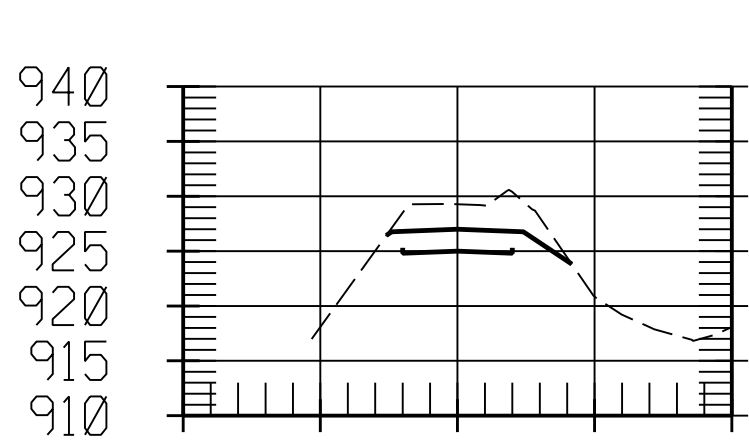
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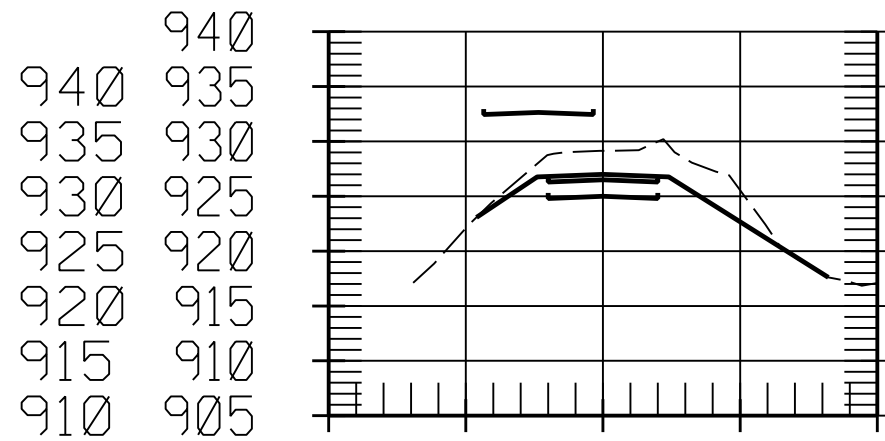
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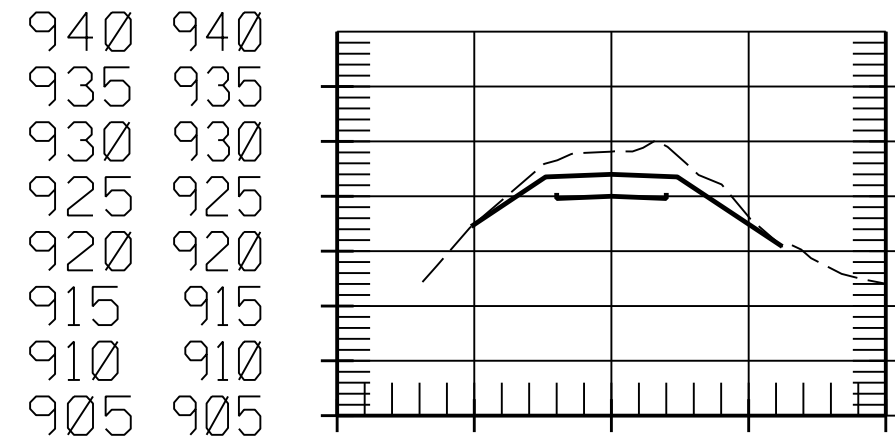
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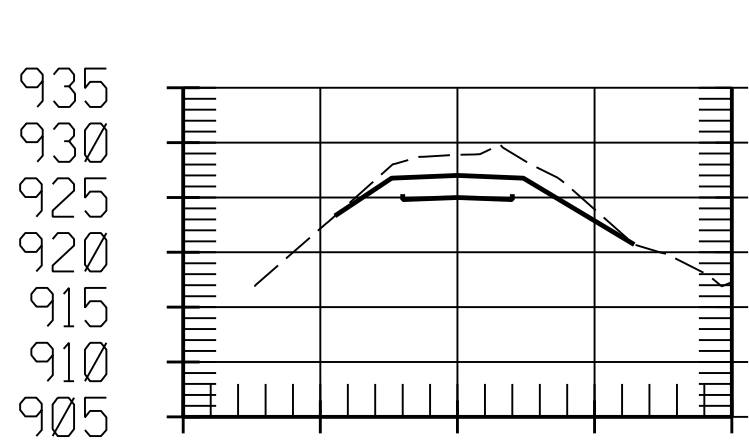
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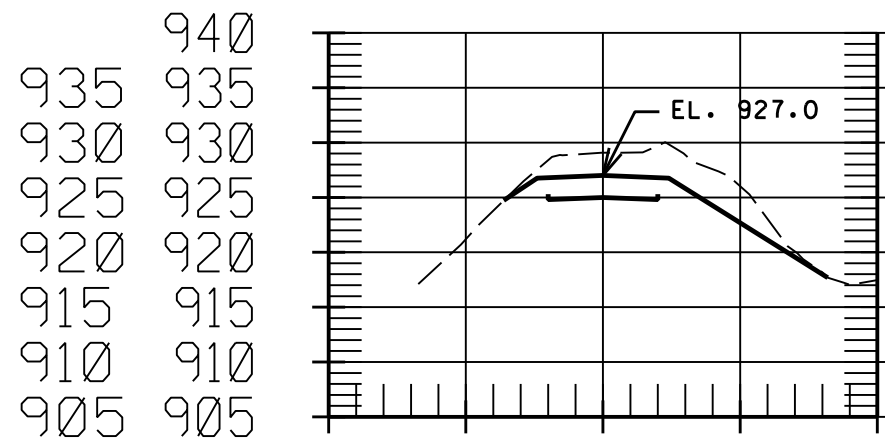
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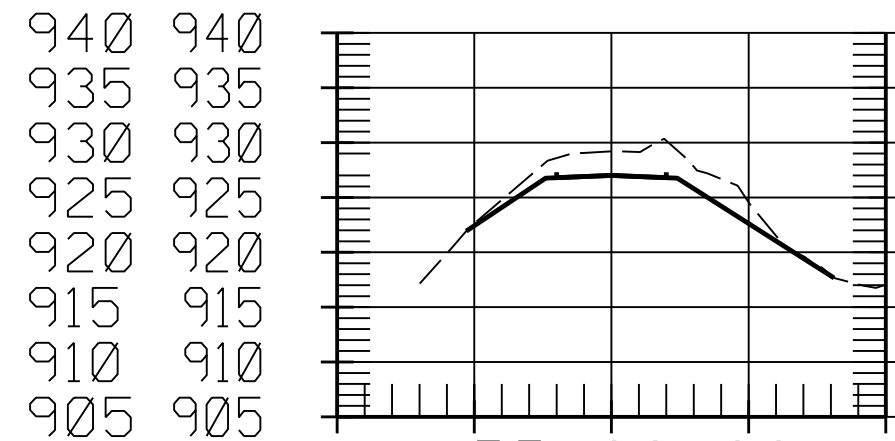
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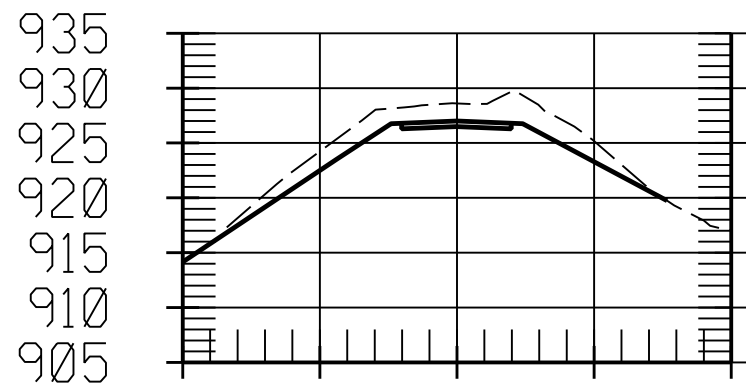


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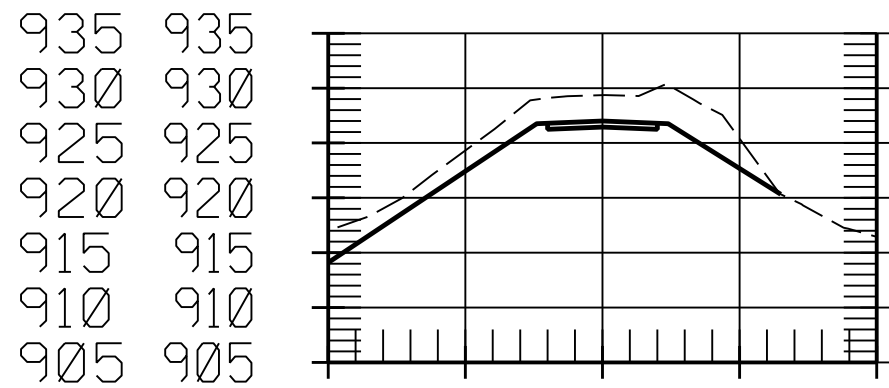


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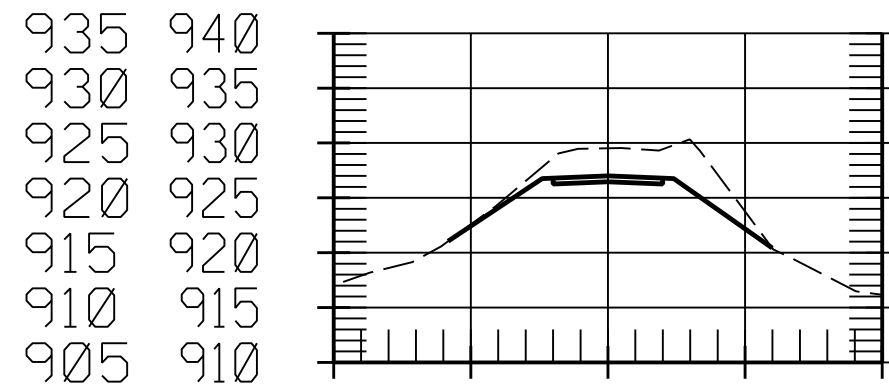
TITLE CROSS SECTIONS DRAWN BY MKJ DATE JAN '11
 PROJECT RIVERTON FLOOD DAMAGE REPAIRS COUNTY FREMONT PROJ. NO. 09-04-36-05
 SHEET 12 OF 16



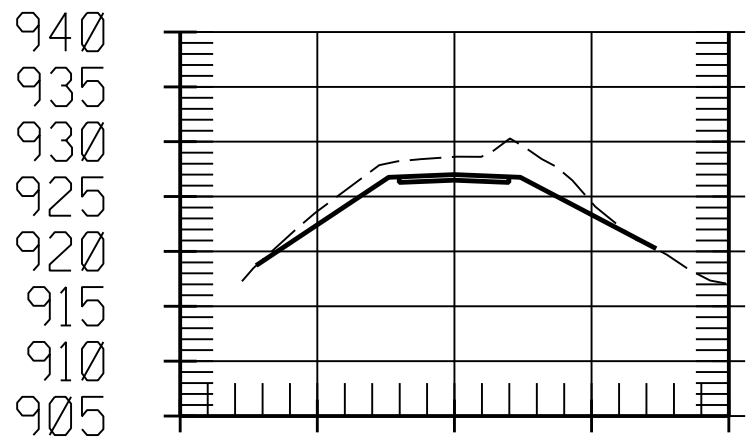
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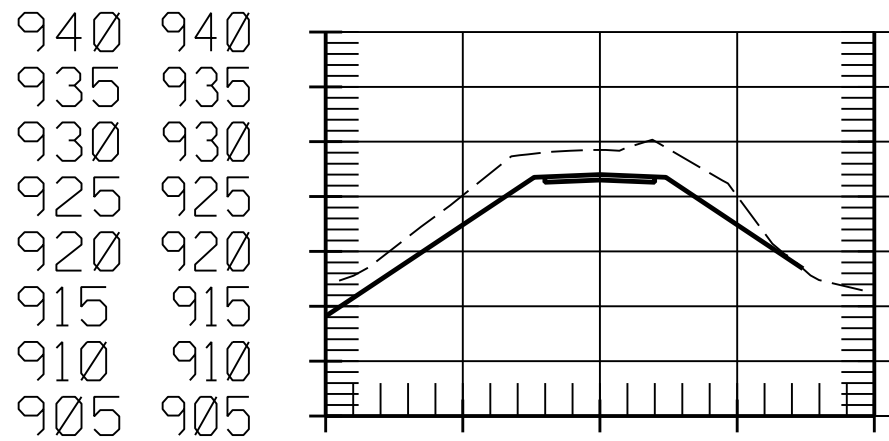
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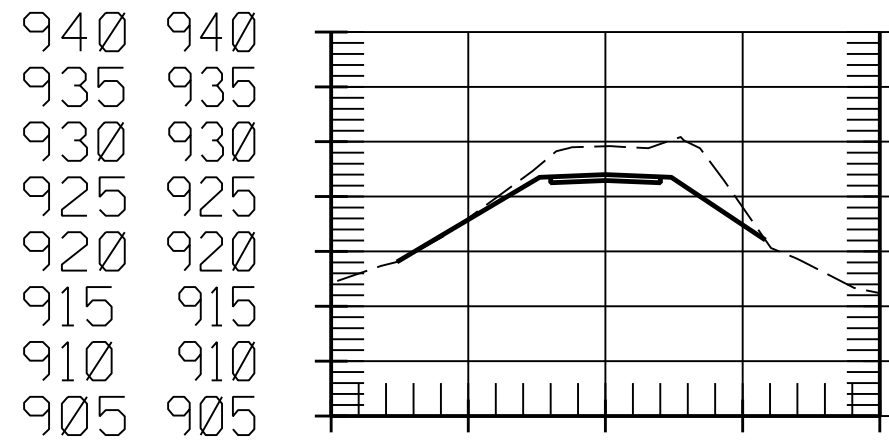
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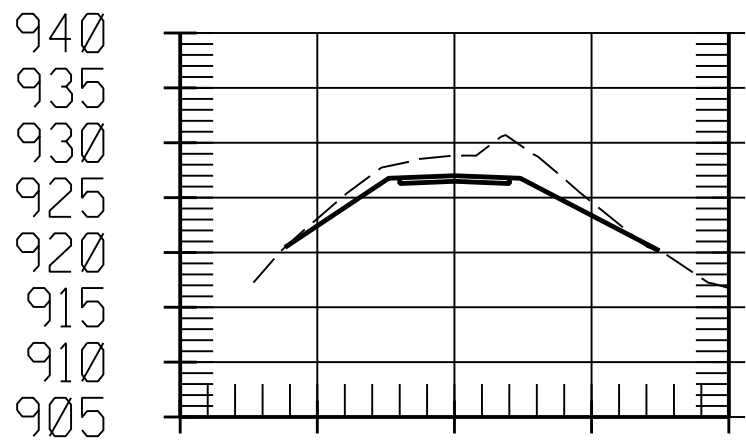
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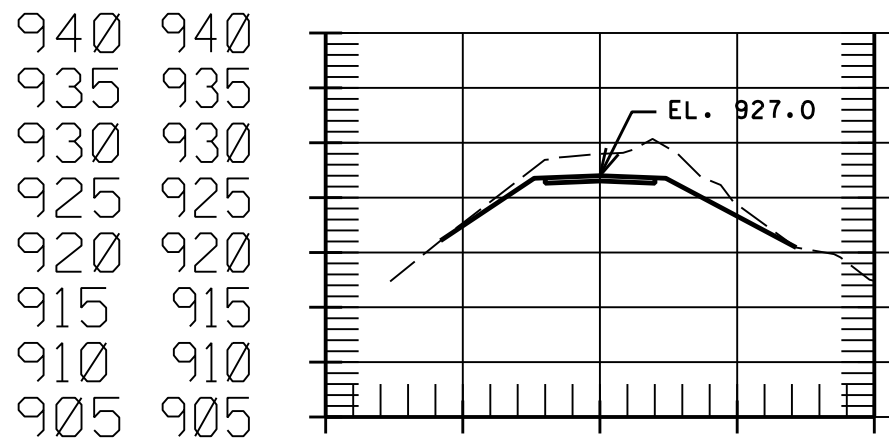
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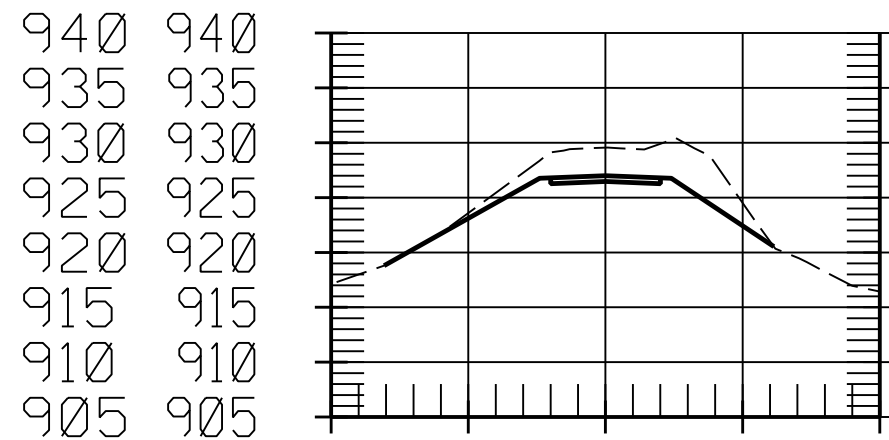
43+00.00



36+00.00

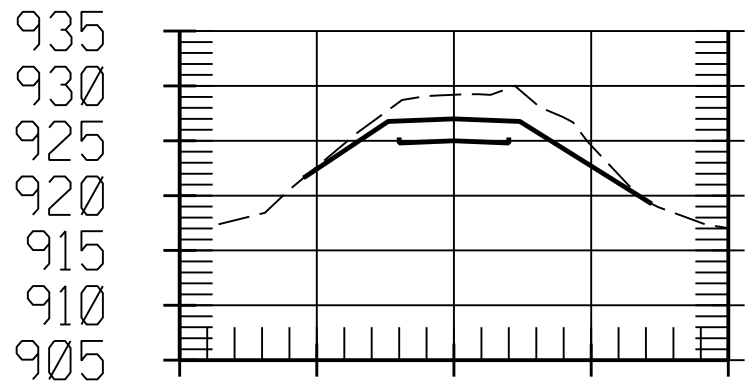


39+00.00

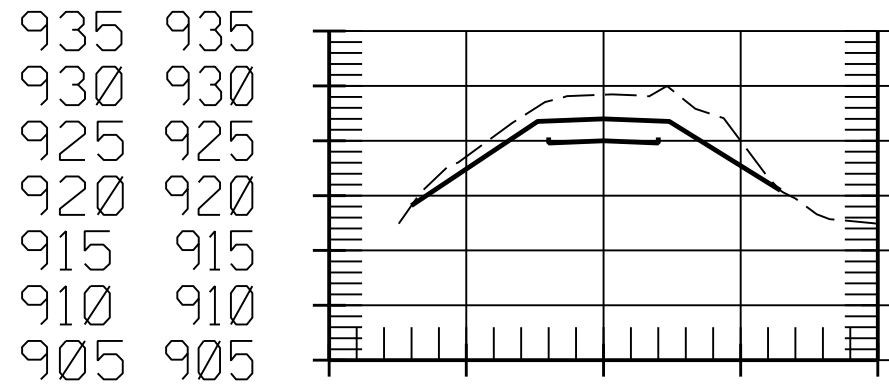


42+00.00

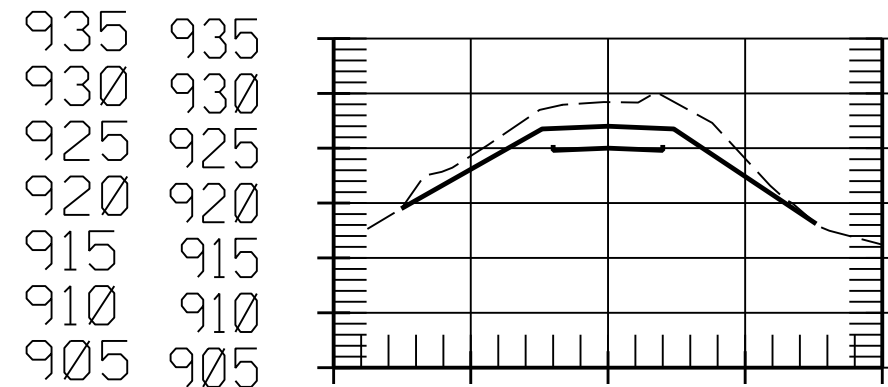
TITLE CROSS SECTIONS DRAWN BY MKJ DATE JAN '11
 PROJECT RIVERTON FLOOD DAMAGE REPAIRS COUNTY FREMONT PROJ. NO. 09-04-36-05
 SHEET 13 OF 16



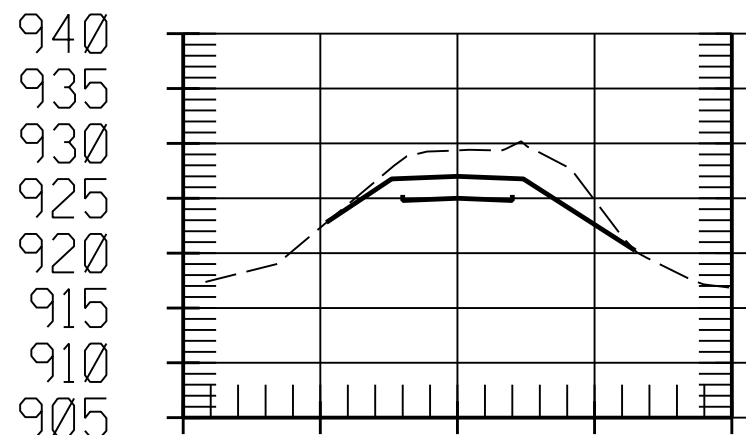
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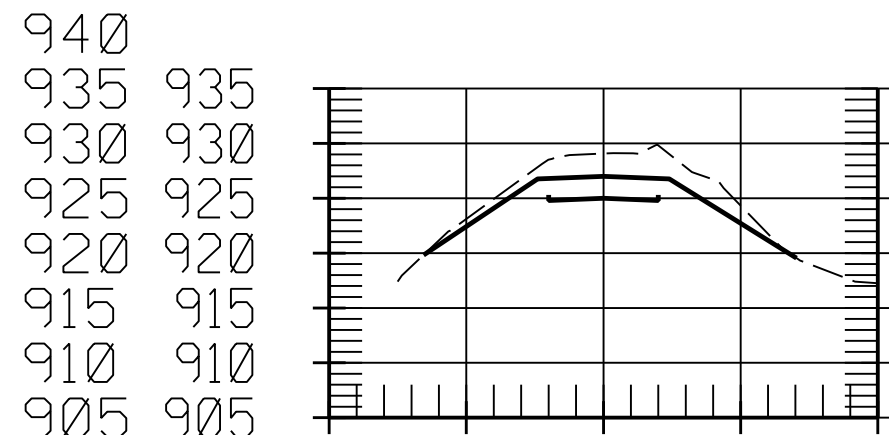
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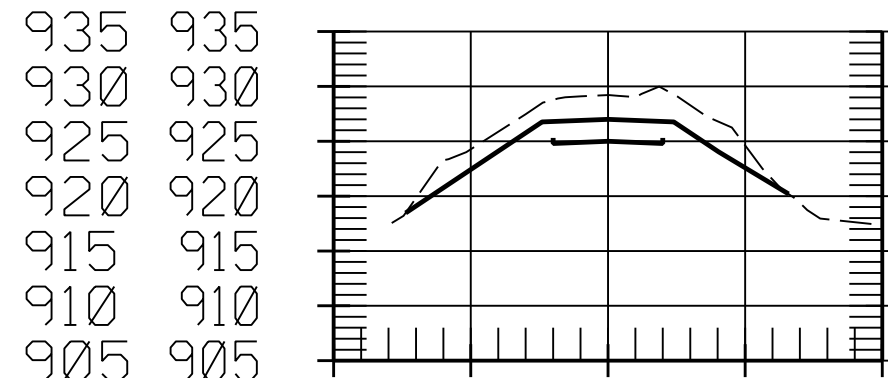
53+00.00



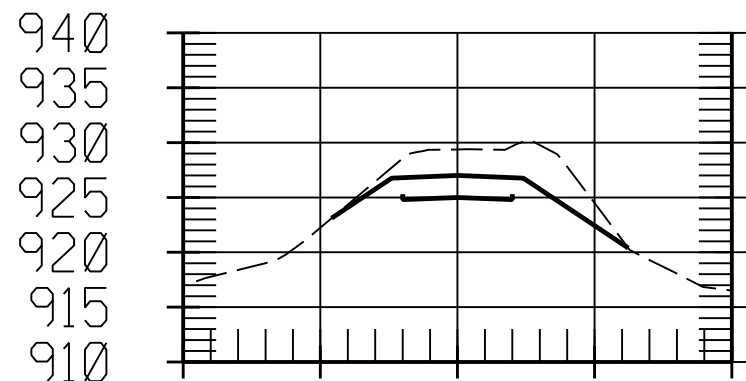
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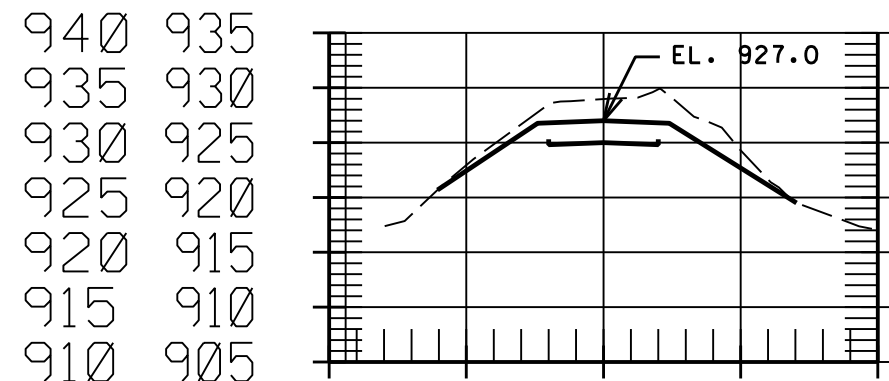
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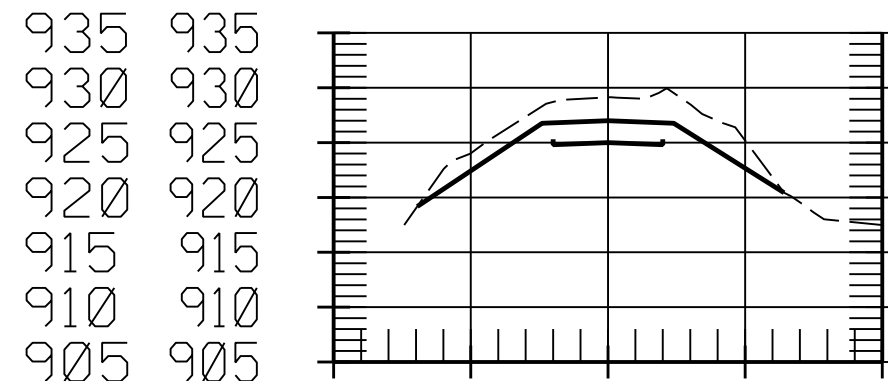
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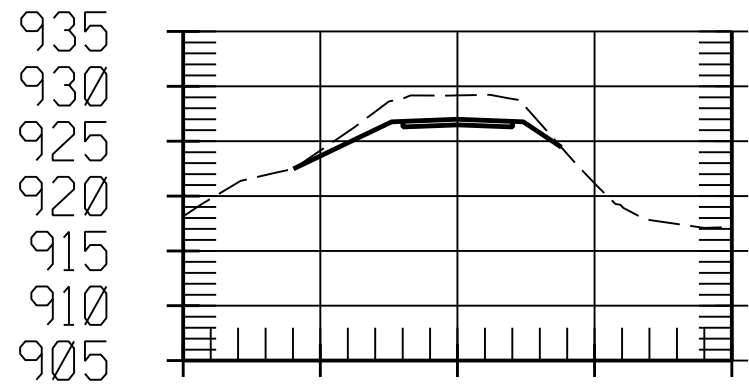
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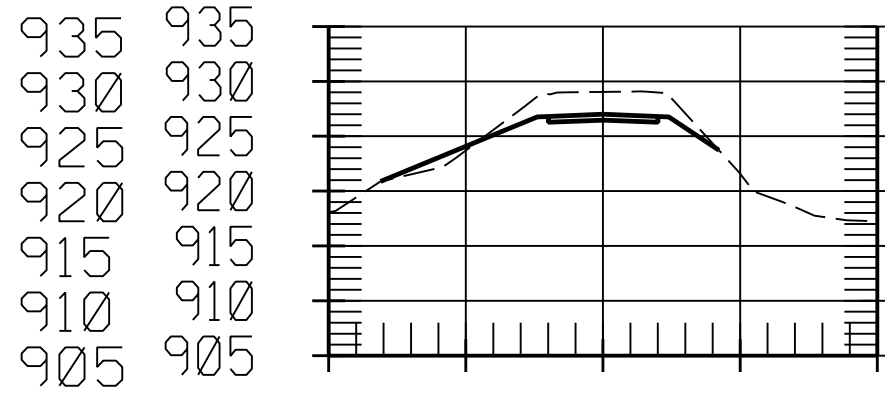
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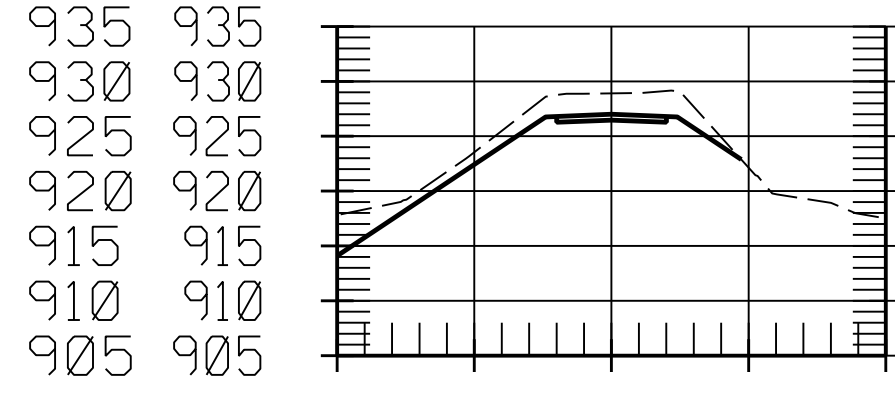
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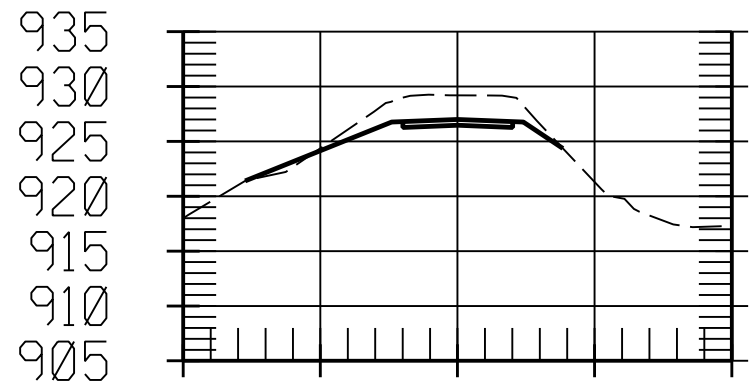
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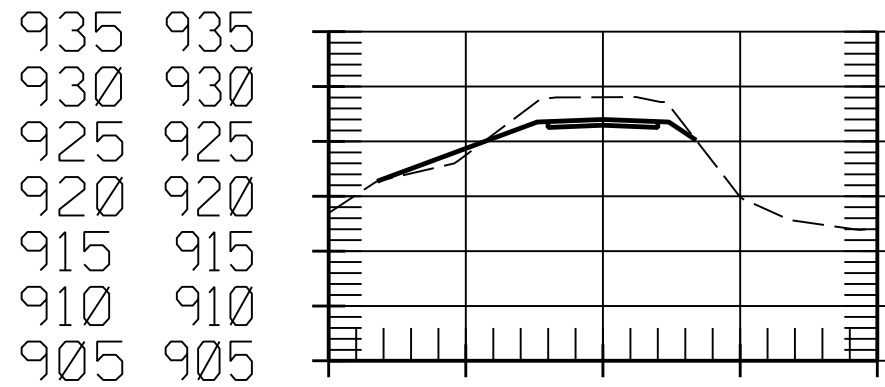
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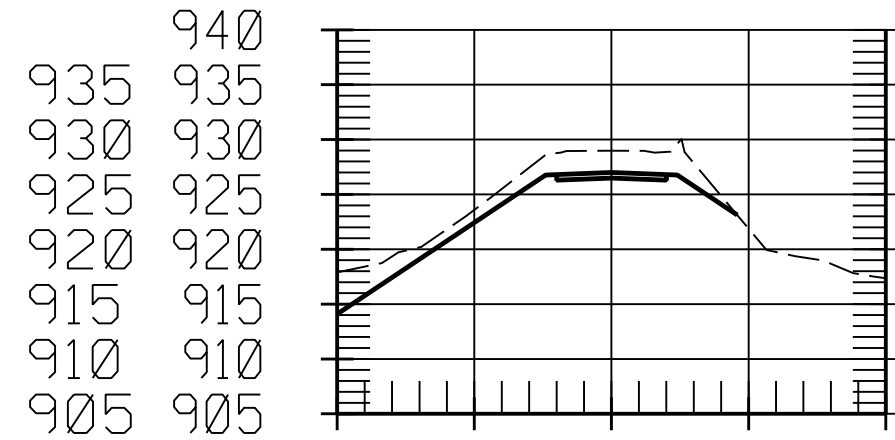
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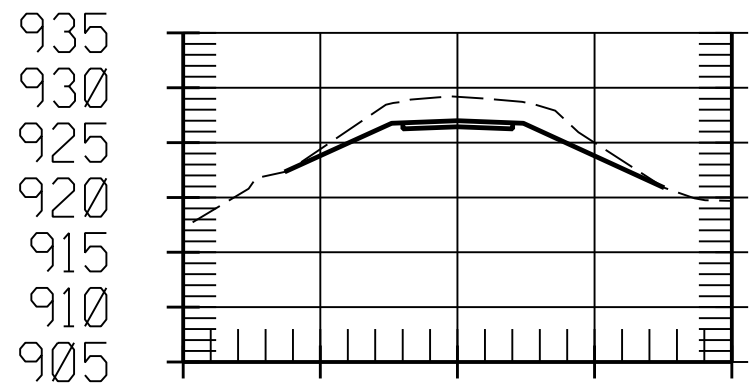
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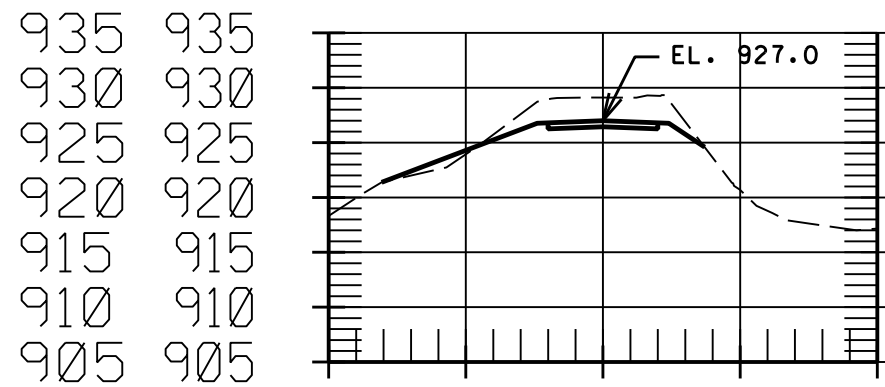
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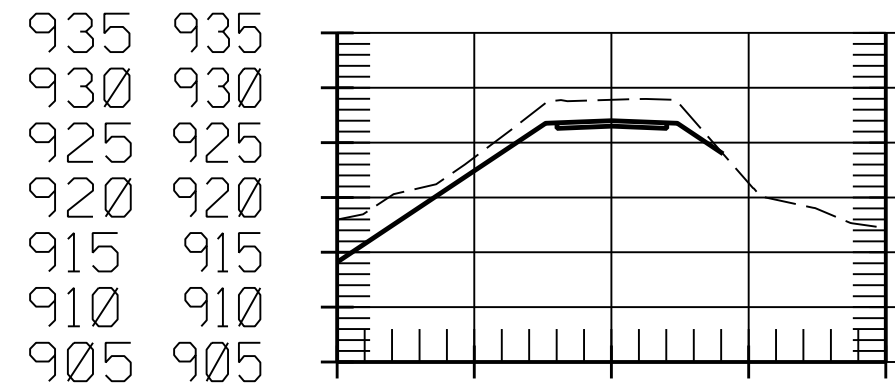
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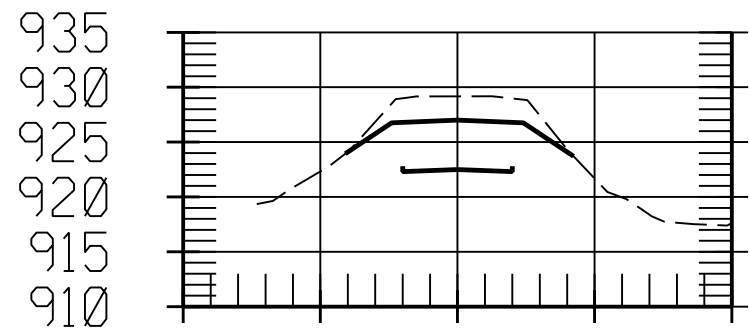
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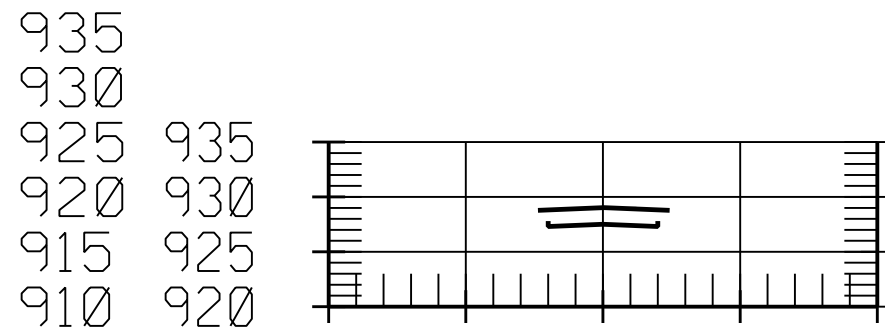
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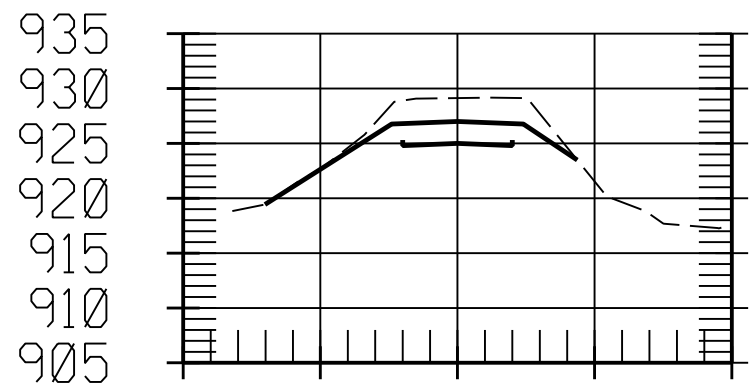
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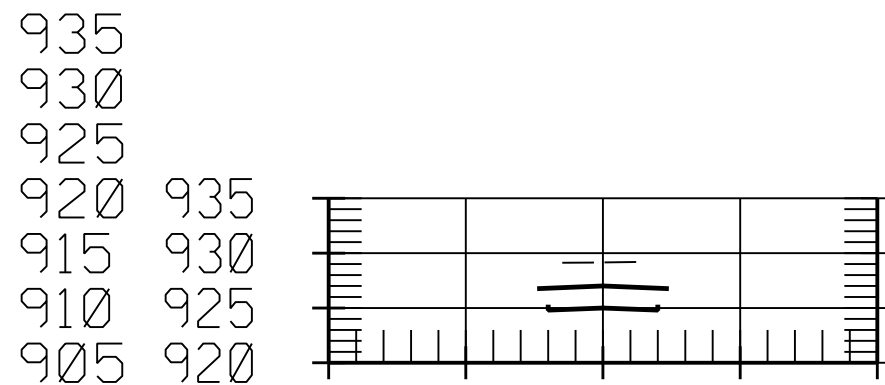
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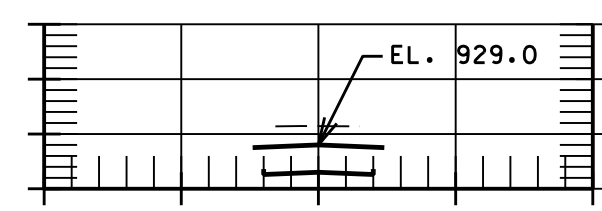
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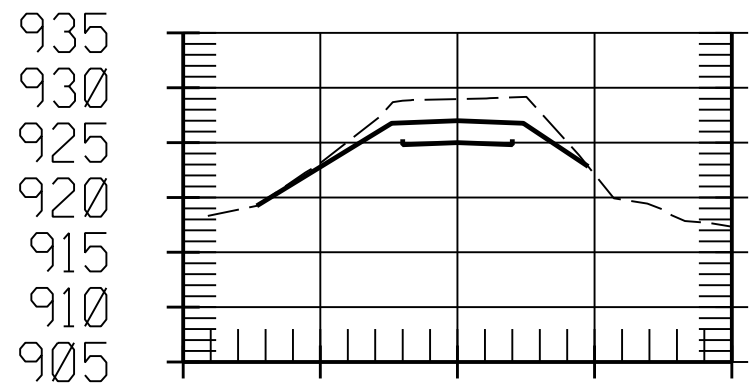
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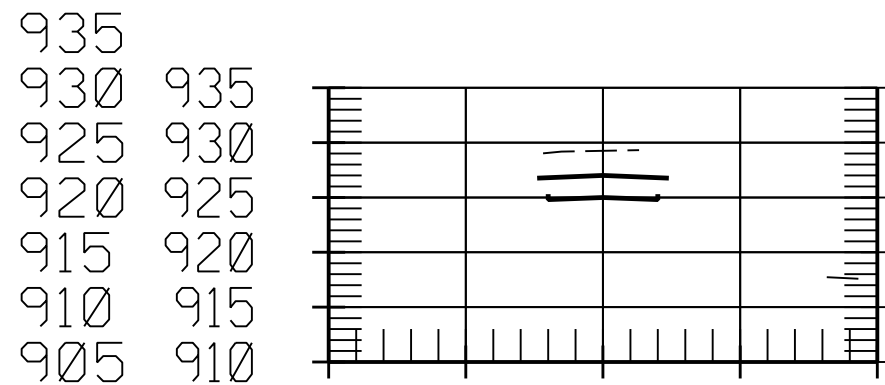
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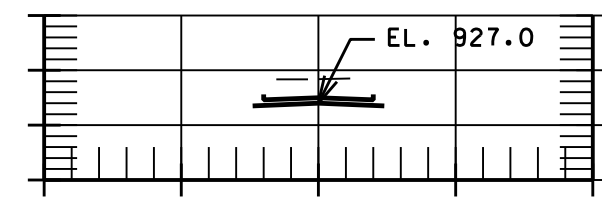
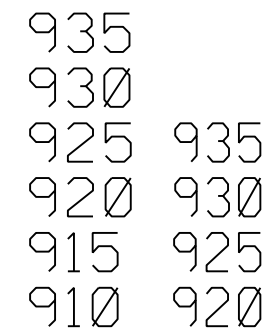
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63+00.00



66+00.00



69+00.00

TITLE CROSS SECTIONS DRAWN BY MKJ DATE JAN '11
 PROJECT RIVERTON FLOOD DAMAGE REPAIRS COUNTY FREMONT PROJ. NO. 09-04-36-05
 SHEET 16 OF 16