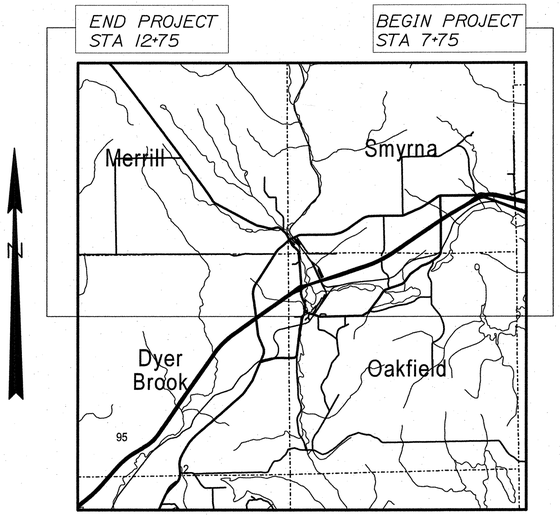
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



LOCATION MAP

2 0 2 4

Scale in Miles

OAKFIELD
AROOSTOOK COUNTY
RIDGE ROAD

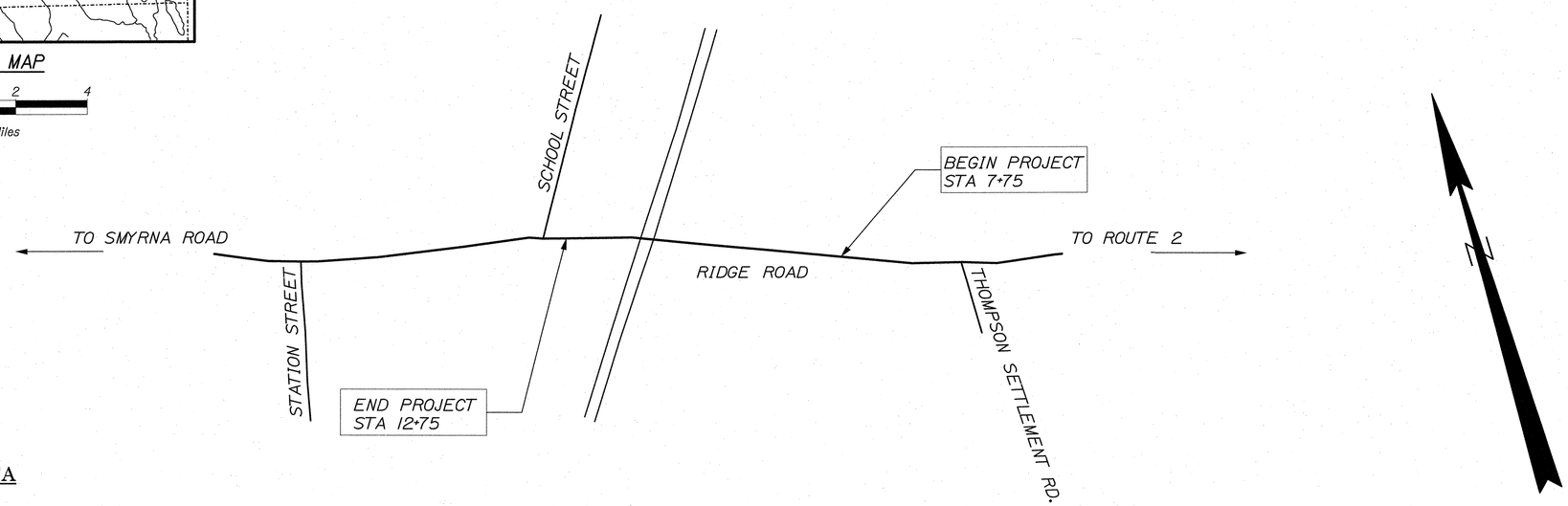
STATE PROJECT NO. 17124.00

PROJECT LENGTH : 0.095 MILES

OPERATIONAL AND SAFETY IMPROVEMENTS

INDEX OF SHEETS

Description	Sheet No.
Title Sheet	1
Typical Sections	2
Drainage	3
Estimated Quantities	4
Construction Notes	5
Plan & Profile	6
Cross - Sections	7-12



TRAFFIC DATA

Actual (2009) AADT 860
Design Speed (mph) 45
Functional Class: .....Minor Collector

PIN 017124.00

PROGRAM AREA: CIP, Region 5

SCOPE OF WORK: Drainage Improvements and Miscellaneous Safety Improvements

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

APPROVED

COMMISSIONER: [signature] DATE 6/27/10

CHIEF ENGINEER: [signature] 6/23/10

STATE OF MAINE ★ Brent Bubar 6640 LICENSED PROFESSIONAL ENGINEER

SIGNATURE 6640

P.E. NUMBER JUNE 17, 2010

DATE

PROJECT INFORMATION

PROGRAM	HIGHWAY
PROJECT MANAGER	JON BITHER
DESIGNER	DAN ROSS
CONSULTANT	
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

OAKFIELD
RIDGE ROAD

TITLE SHEET

SHEET NUMBER

1

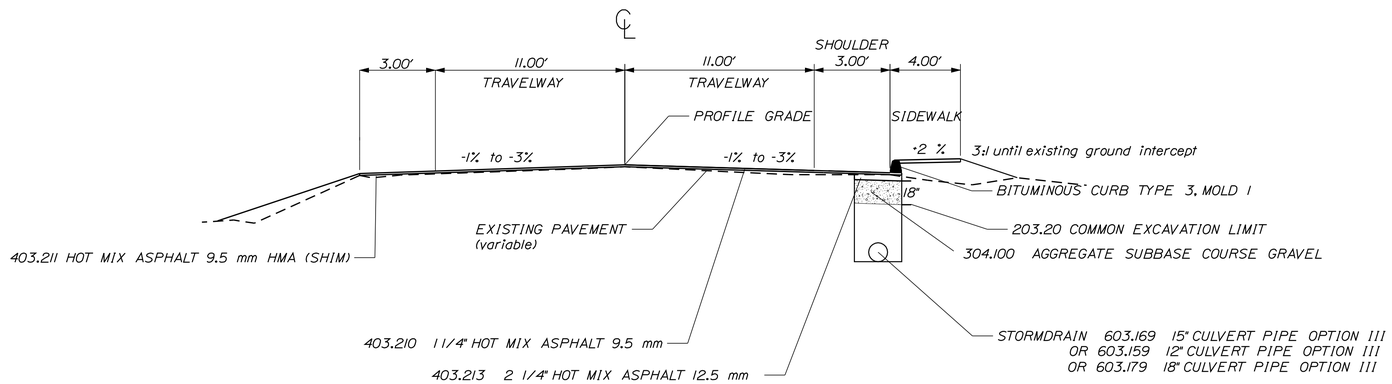
OF 12

Filename: ...\00\HIGHWAY\MSTA\001_Title.dgn Division: HIGHWAY Username: Jon.Bither Date:6/15/2010

NOTE:

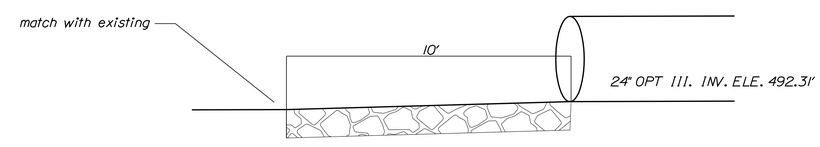
1. THE PAVEMENT, BASE AND SUBBASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.

2. THE STATIONING SHOWN UNDER EACH TYPICAL IS APPROXIMATE.



VARIABLE GRAVEL SECTION WITH SIDEWALK

STATION 8+50 to 12+61 LT
8+87 to 9+92 RT
10+79.5 to 12+43 RT



STATION 12+16, OUTLET OF 24" OPTION III CULVERT

(NOT TO SCALE)

NOT TO SCALE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

017124.00

PIN
017124.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	JON BITHER		
DESIGN-DETAILED	DAN ROSS		
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
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FIELD CHANGES			

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OAKFIELD
RIDGE ROAD

TYPICAL SECTIONS

SHEET NUMBER

2

OF 12

Filename: ...\highway\rnsta\002_Typical.dgn Division: HIGHWAY Username: Jon.Bither Date:6/22/2010

STATION	CULVERT PIPE											CATCH BASIN					PIPE ARCH			MH	UNDERDRAIN						ELBOWS, TEES, WYES AND INLET GRATE UNITS	REMARKS
	RCP			CMP		OPTION I		OPTION III													TYPE B		TYPE C					
								SMOOTHLINED		CORRUGATED										GAGE OR WALL THICKNESS	TYPE B	OUTLET	SMOOTHLINED		CORRUGATED		DESCRIPTIONS	
	SIZE	LENGTH	CLASS	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	A1-C	B1-C		E	F	SPAN	RISE	LENGTH		LENGTH	LENGTH	SIZE	LENGTH	SIZE	LENGTH		
STA 7+86 12.5 RT													1															8' Catch Basin
7+86 RT TO 9+00 RT										12"	114'																	CONNECTION BETWEEN BASINS
STA 8+70 12.5 LT													1															8' Catch Basin
8+70 LT TO 9+00 RT										12"	42'																	CONNECTION BETWEEN BASINS
STA 9+00 12.5 RT													1															8' Catch Basin
9+00 RT TO 10+48 RT										18"	148'																	CONNECTION BETWEEN BASINS
STA 10+48 12.5 LT													1															8' Catch Basin
10+48 LT TO 10+48 RT										15"	30'																	CONNECTION BETWEEN BASINS
STA 10+48 12.5 RT													1															8' Catch Basin
10+48 RT TO 11+83 RT										18"	138'																	CONNECTION BETWEEN BASINS
STA 11+83 12.8 RT													1															8' Catch Basin
STA 11+82 12.2 LT													1															8' Catch Basin
11+82 LT TO 11+83 RT										12"	24'																	CONNECTION BETWEEN BASINS
11+83 RT TO 12+16 76.1 RT										24"	72'																	STORM DRAIN OUTLET

STATE OF MAINE
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HIGHWAY PLANS

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OAKFIELD
RIDGE ROAD

DRAINAGE SHEET

SHEET NUMBER

3

OF 12

Filename: ...\highway\msto\003_Drainage.dgn Division: HIGHWAY Username: Jon.Bither Date:6/22/2010

ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
202.203	PAVEMENT BUTT JOINTS	100	SY
203.20	COMMON EXCAVATION	200	CY
203.21	ROCK EXCAVATION	25	CY
203.2312	HEALTH AND SAFETY PLAN	1	LS
203.2333	DISPOSAL OF SPECIAL EXCAVATION	350	T
203.24	COMMON BORROW	250	CY
206.061	STR EARTH BELOW GRADE STR	50	CY
206.07	STR ROCK EXC - DR & MINOR STR	110	CY
304.10	AGGR SUBB COURSE - GRAVEL	150	CY
403.209	HOT MIX ASPHALT 9.5 MM HMA (INCID.)	20	T
403.210	HOT MIX ASPHALT 9.5 MM HMA	100	T
403.211	HOT MIX ASPHALT (SHIM)	50	T
403.213	HOT MIX ASPHALT 12.5 MM HMA BASE	50	T
409.15	BITUMINOUS TACK COAT APPLIED	40	G
603.159	12" CULV PIPE OPTION III	180	LF
603.169	15" CULV PIPE OPTION III	30	LF
603.179	18" CULV PIPE OPTION III	286	LF
603.199	24" CULV PIPE OPTION III	72	LF
604.072	CATCH BASIN TYPE AI-C	7	EA
609.31	CURB TYPE 3	800	LF
610.08	PLAIN RIPRAP	10	CY
615.07	LOAM	5	CY
618.1401	SEEDING METHOD NUMBER 2 - PLAN QUANTITY	1	UN
619.1201	MULCH - PLAN QUANTITY	1	UN
620.58	EROSION CONTROL GEOTEXTILE	25	SY
627.733	4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	560	LF
627.811	TEMPORARY BI-DIRECTIONAL YELLOW DELINEATORS	20	EA
629.05	HAND LABOR, STRAIGHT TIME	5	HR
631.12	ALL-PURPOSE EXC (INC OPERATOR)	10	HR
631.172	TRUCK LARGE (INC OPERATOR)	10	HR
652.33	DRUM	10	EA
652.34	CONE	25	EA
652.35	CONSTRUCTION SIGNS	260	SF
652.36	MAINT OF TRAFFIC CONTR DEVICES	60	CD
652.38	FLAGGER	500	HR
656.75	TEMP. SOIL EROS. AND WATER POLL. CONTROL	1	LS
659.10	MOBILIZATION	1	LS

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HIGHWAY PLANS

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OAKFIELD
RIDGE ROAD

ESTIMATED QUANTITIES

SHEET NUMBER

4

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Filename: ...\highway\rnsta\004_Estimate.dgn Division: HIGHWAY Username: Jon.Bither Date:6/22/2010

203.200 Common Excavation

Material excavated as common excavation shall be defined, measured and tracked as Group 1 or Group 2 soils by an MDEP/MDOT representative per SPECIAL PROVISION SECTION 203 EXCAVATION AND EMBANKMENT (CONTAMINATED SOIL AND GROUNDWATER MANAGEMENT)
Common Excavation measured for payment is limited to the the pipe trench area.
Depth Limit is shown on typical section. Width Limit to be determined by pipe size.

202.203 PAVEMENT BUTT JOINTS

Station 7+75 and 12+75

203.2312 HEALTH AND SAFETY PLAN

Contaminated soils shall be managed as outlined in the Health and Safety Plan.
Seepage control dikes as outlined in Paragraph 2 of the 'Trench and Underdrain/stormdrain Design in Contaminated Areas' section of SPECIAL PROVISION SECTION 203 EXCAVATION AND EMBANKMENT (CONTAMINATED SOIL AND GROUNDWATER MANAGEMENT) shall be incidental to the 203.2312 Health and Safety Plan.

Seepage control dike construction is anticipated at or near, but not limited to, the following Stations:

10+40 RT
10+48 CL
10+90 RT
11+50 RT
11+83 CL
11+88 RT

203.2333 DISPOSAL OF SPECIAL EXCAVATION

DISPOSAL OF SPECIAL EXCAVATION TO BE DIRECTED BY MDOT RESIDENT ENGINEER OR MDEP REPRESENTATIVE. SPECIAL EXCAVATION TO BE TRANSPORTED TO FACILTIY PROPERLY LICENSED BY MDEP TO EXCEPT SUCH WASTE.

METHOD OF MEASUREMENT TO BE BY THE TON AS DETERMINED BY CERTIFIED SCALES AT ACCEPTING DISPOSAL FACILITY.

203.24 COMMON BORROW

Material used as common borrow to replace Group 2 soils as defined under SPECIAL PROVISION SECTION 203 EXCAVATION AND EMBANKMENT (CONTAMINATED SOIL AND GROUNDWATER MANAGEMENT) shall be tracked and quantified separately from any common borrow used to replace Group 1 soils.
Method of Measurement shall be scale weights (of removed Group 2 soils) supplied by disposal facility divided by a factor of 1.4 to get C.Y. equivalent.

Other common borrow to be used as directed by the resident.

206.07 ROCK EXCAVATION - DRAINAGE AND MINOR STRUCTURES
Bedrock is anticipated in the following areas:
[Limited geotechnical information (power auger probes) is available upon request].

Station	Side
10+48	LT. to place catch basin.
10+48	RT. to place catch basin.
11+83	RT. to place catch basin.

RESIDENT SHALL BE NOTIFIED IMMEDIATELY IF OTHER AREAS ARE ENCOUNTERED

304.10 AGGREGATE SUBBASE COURSE GRAVEL

AGGREGATE SUBBASE COURSE GRAVEL TO BE PLACED IN TRENCHES AS DIRECTED BY THE RESIDENT IN TWO LIFTS TOTALING 18".

403.210 HOT MIX ASPHALT 9.5 MM

TO BE USED AS SURFACE OVERLAY AT A DEPTH OF 1.25" OR AS DIRECTED BY THE RESIDENT.

403.211 HOT MIX ASPHALT 9.5 MM (SHIM)

TO BE USED TO CORRECT CROSS SLOPE DEFICIENCIES, AS DIRECTED BY THE RESIDENT.

403.213 HOT MIX ASPHALT 12.5 MM - BASE

TO BE USED AS BASE HMA IN MAINLINE TRENCH AREAS.
PLACED IN 1 LIFT TOTALING 2 1/4" OR AS DIRECTED BY RESIDENT.

609.31 CURB TYPE 3

Curbing shall be bituminous. Type 3 Mold 1 unless otherwise directed by the Resident

610.08 PLAIN RIP RAP

TO BE PLACED AS SHOWN ON PLANS AND CROSS SECTIONS OR AS DIRECTED BY RESIDENT

620.58 EROSION CONTROL GEOTEXTILE

TO BE PLACED BENEATH ALL RIPRAP

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HIGHWAY PLANS

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OAKFIELD
RIDGE ROAD

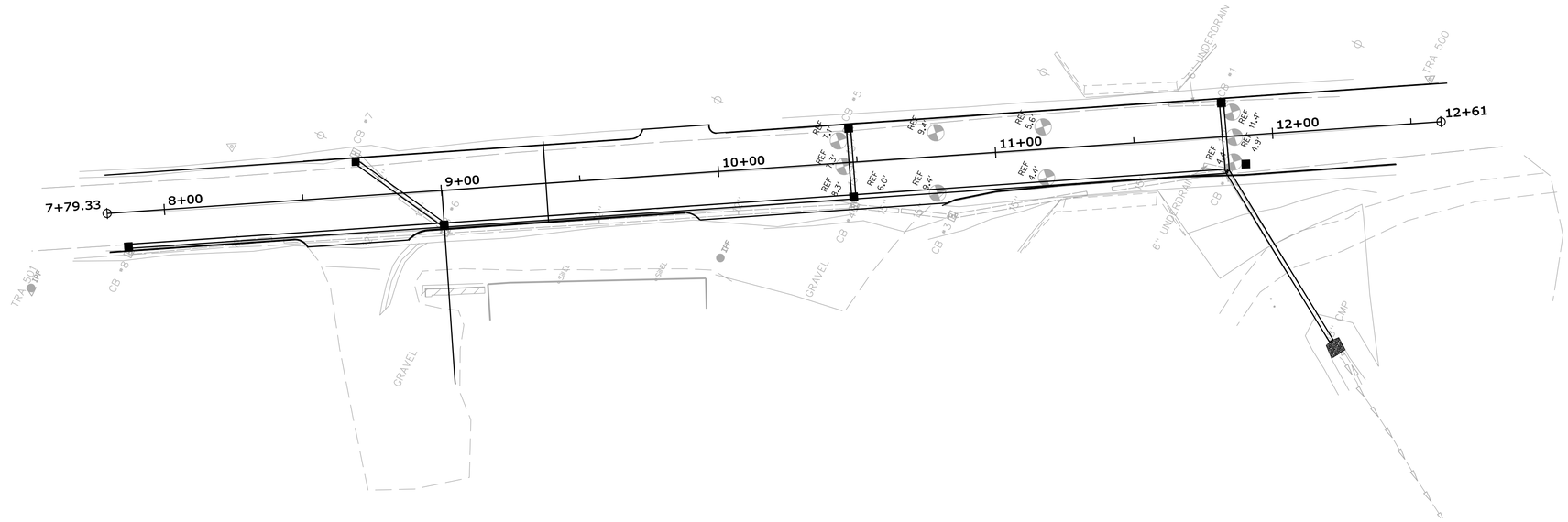
CONSTRUCTION NOTES

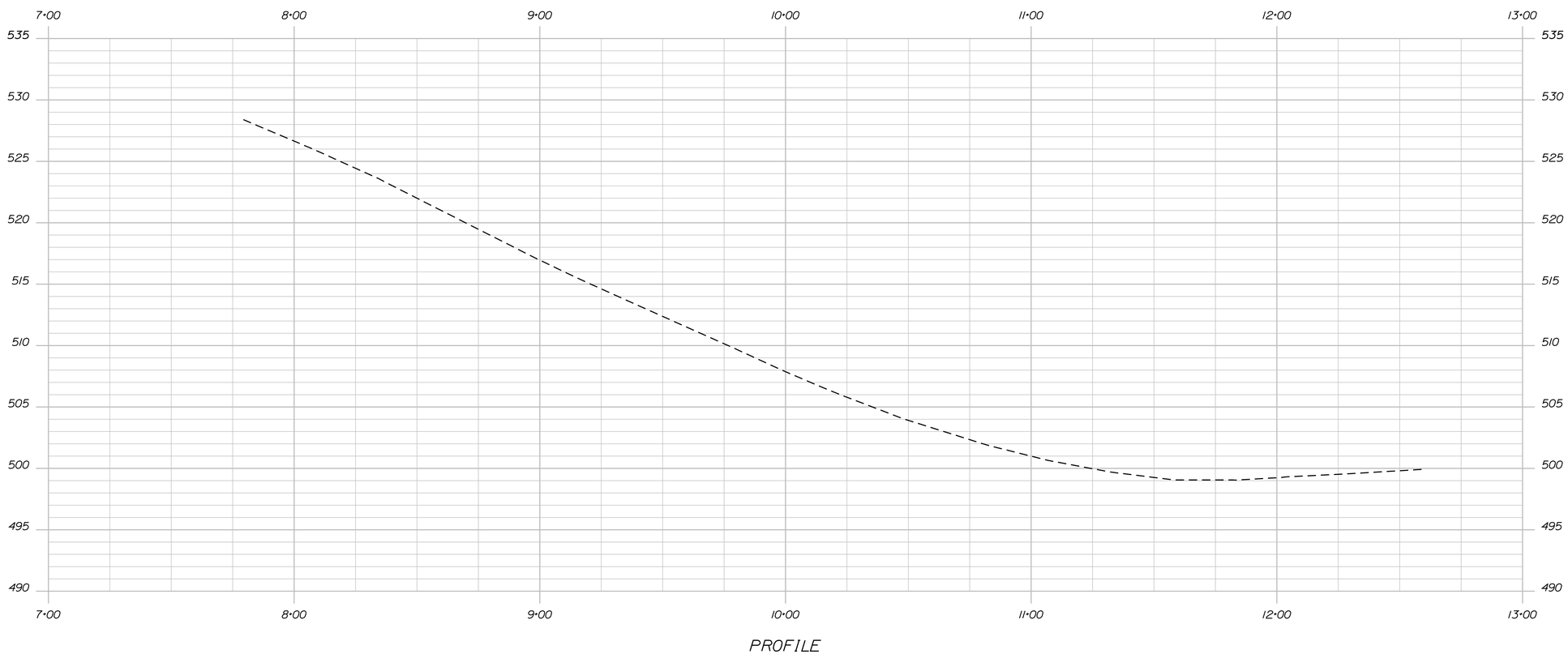
SHEET NUMBER

5

OF 12

Filename: ...\00\HIGHWAY\MSTA\005_ Notes.dgn Division: HIGHWAY Username: norma.gilman Date:6/28/2010





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OAKFIELD
RIDGE ROAD

PLAN & PROFILE

SHEET NUMBER

6

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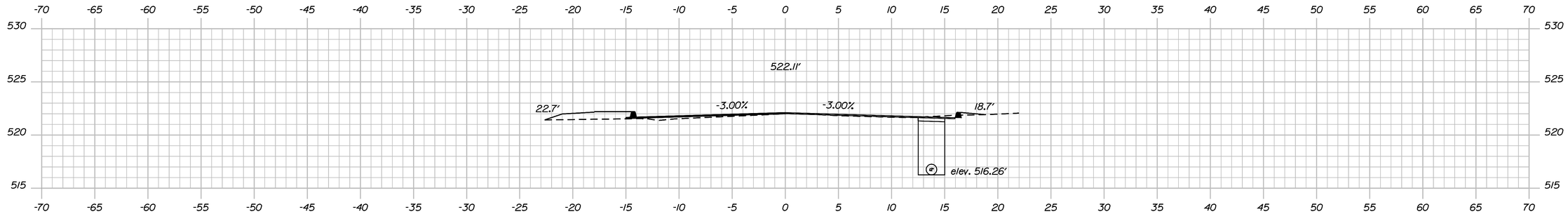
Filename: ...\highway\msta\006_HDPlan1.dgn Division: HIGHWAY Username: Jon.Bither Date:6/22/2010



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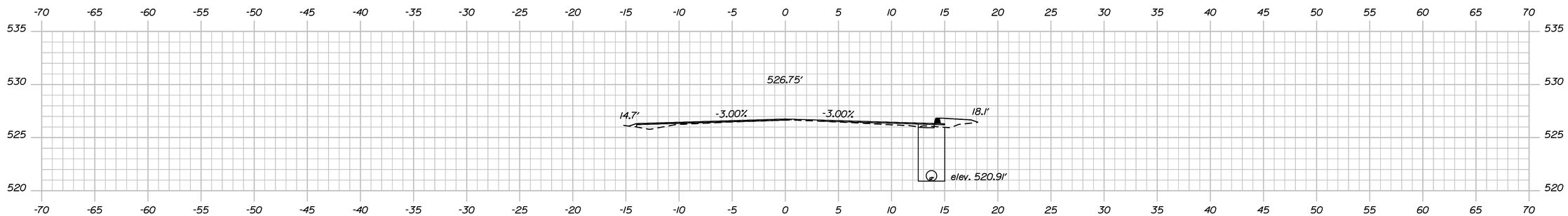

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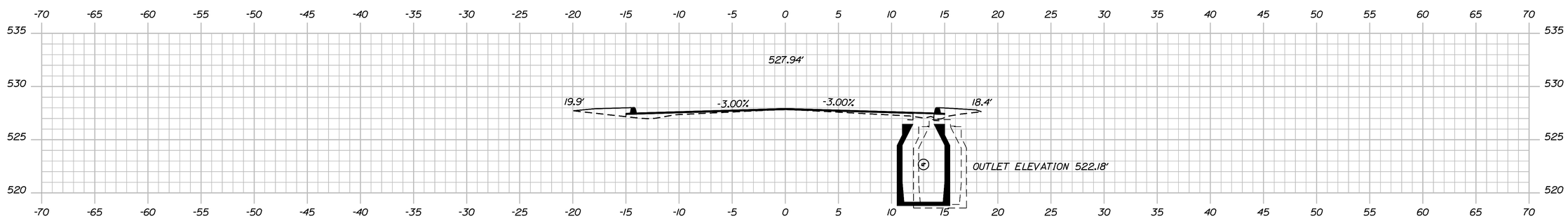

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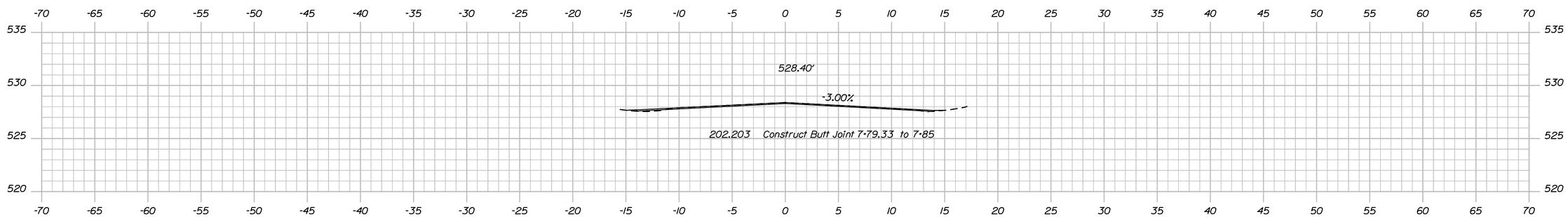

7+79.33

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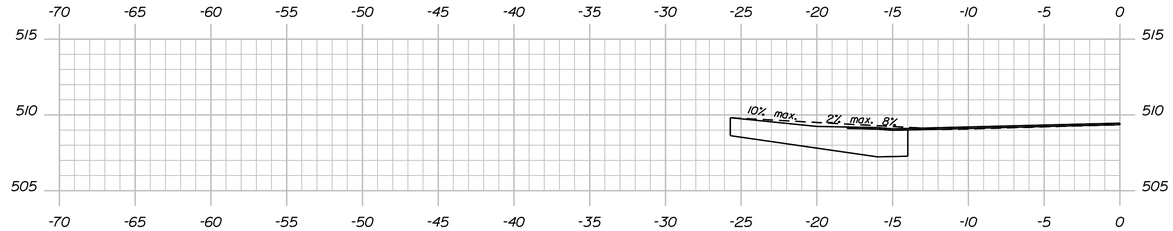
OAKFIELD
RIDGE ROAD

CROSS SECTIONS

SHEET NUMBER
7
OF 12

Filename: ...\00\highway\msta\007_Xsect.dgn Division: HIGHWAY Username: Jon.Bither Date:6/22/2010



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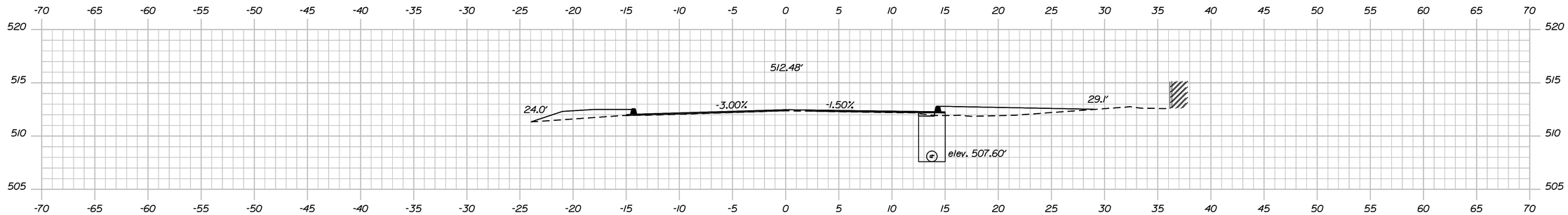

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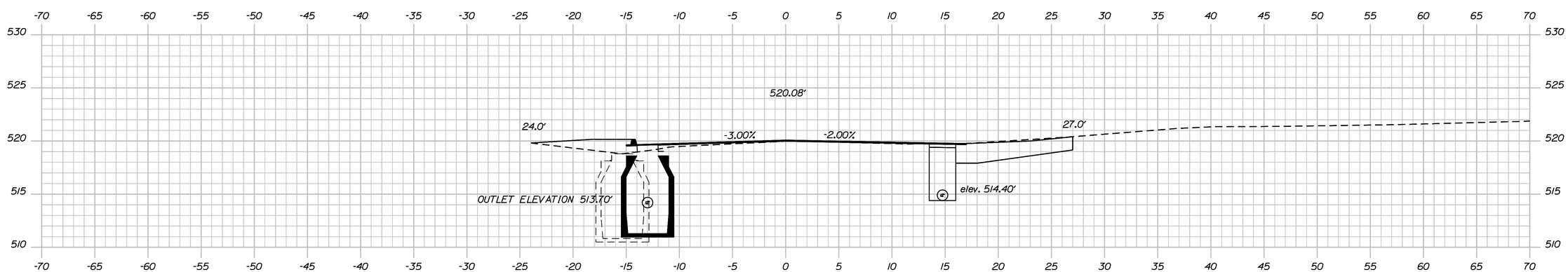
9+00.00



8+70.00

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HIGHWAY PLANS

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OAKFIELD
RIDGE ROAD

CROSS SECTIONS

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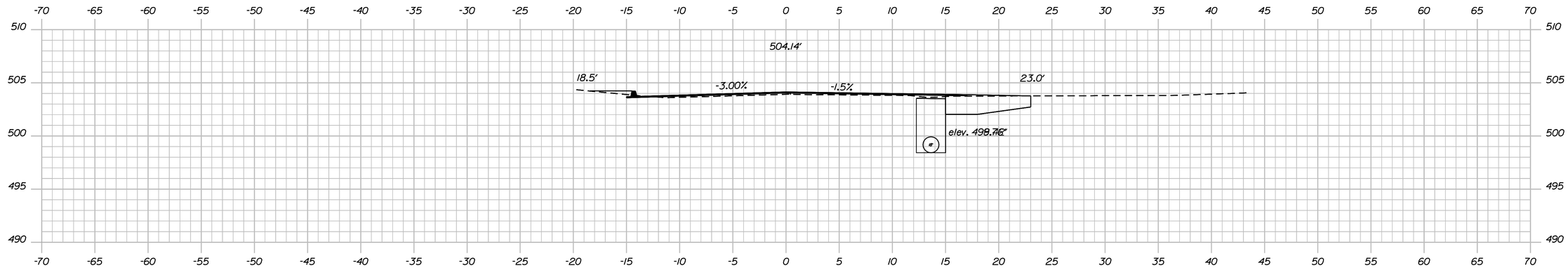
Filename: ...\00\highway\msta\008_Xsect.dgn Division: HIGHWAY Username: Jon.Bither Date:6/22/2010



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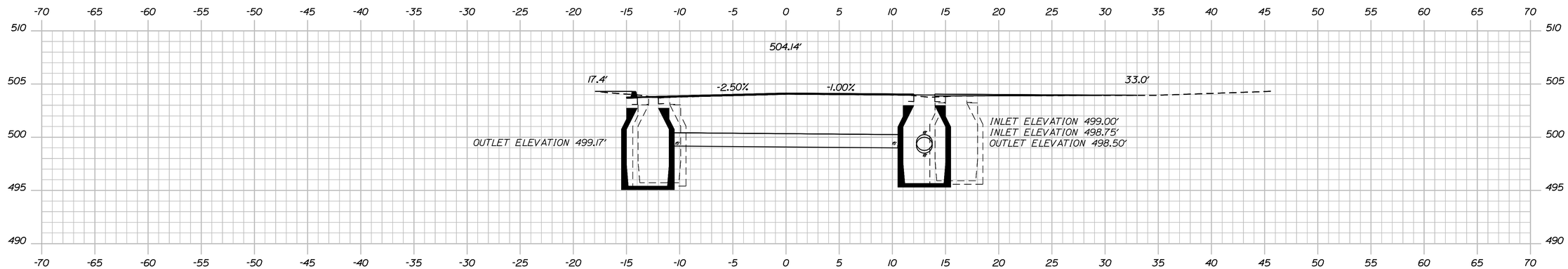

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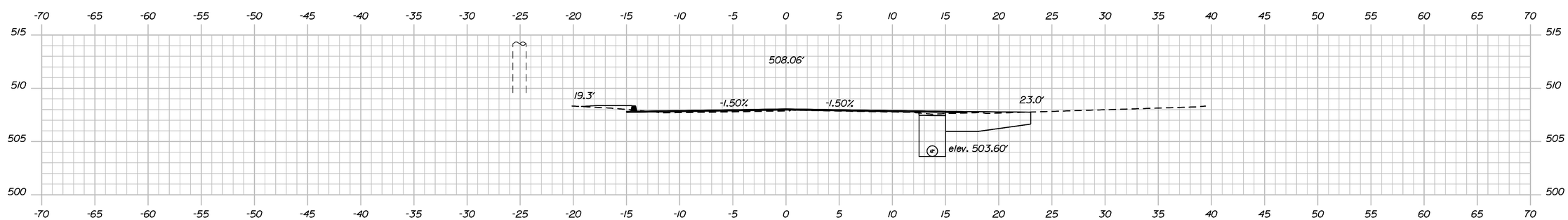

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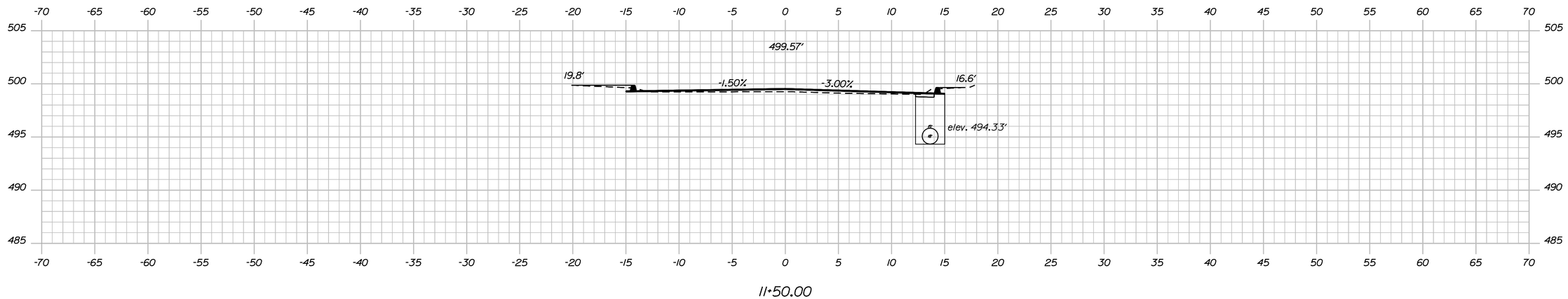

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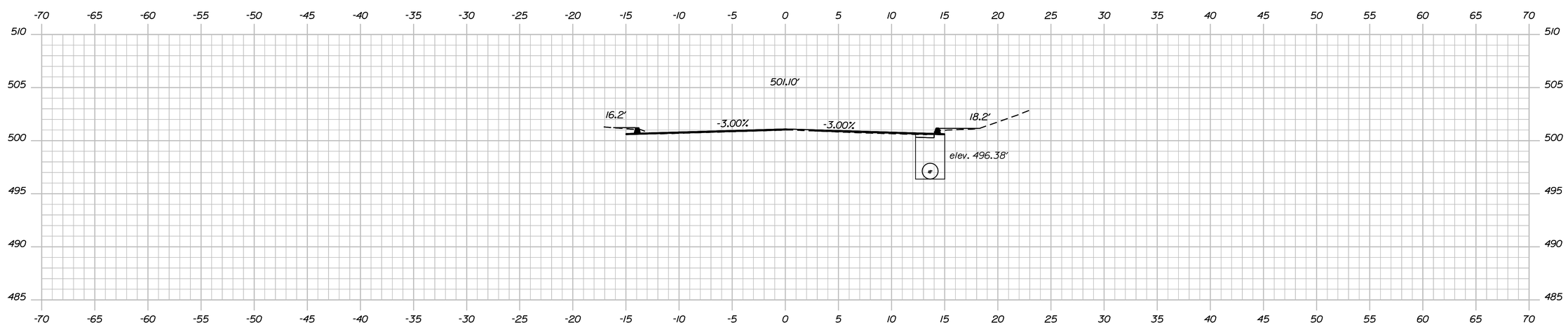

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OAKFIELD
RIDGE ROAD

CROSS SECTIONS

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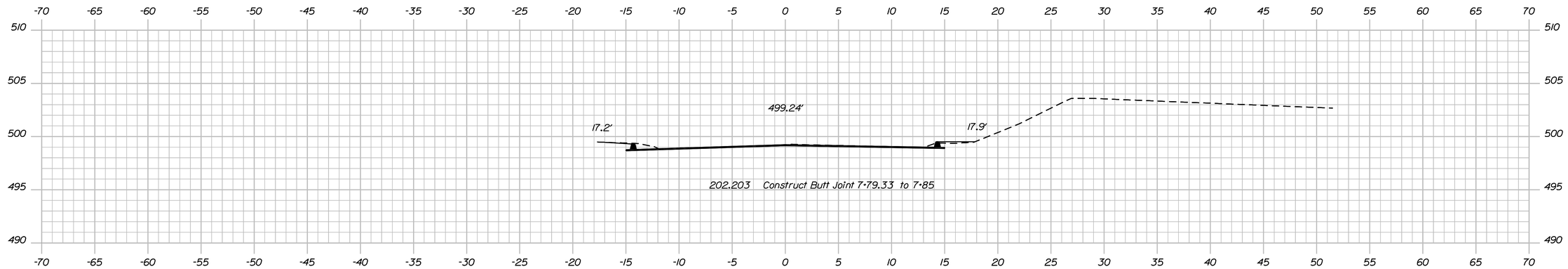

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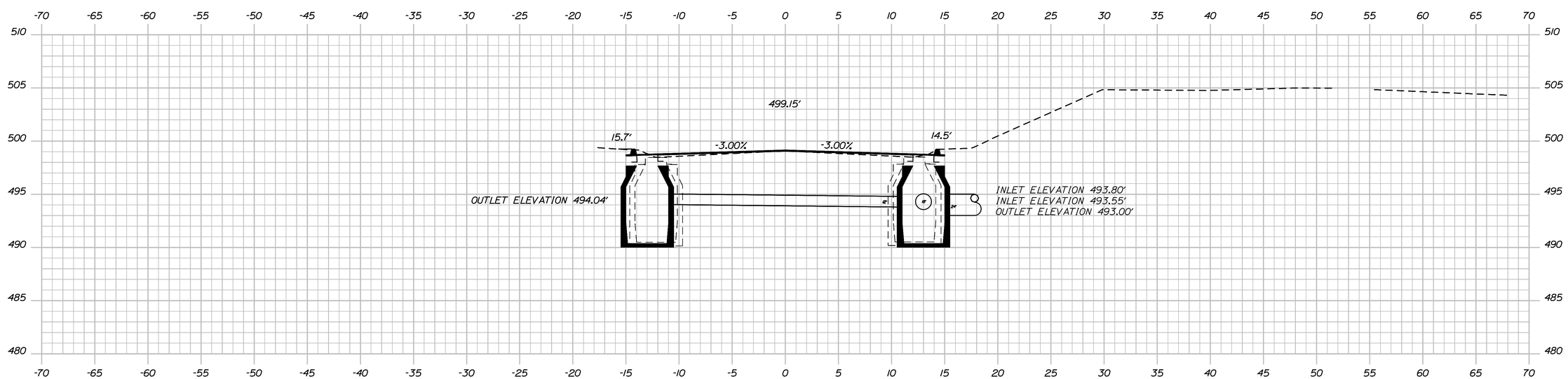

11+82.50

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OAKFIELD
RIDGE ROAD

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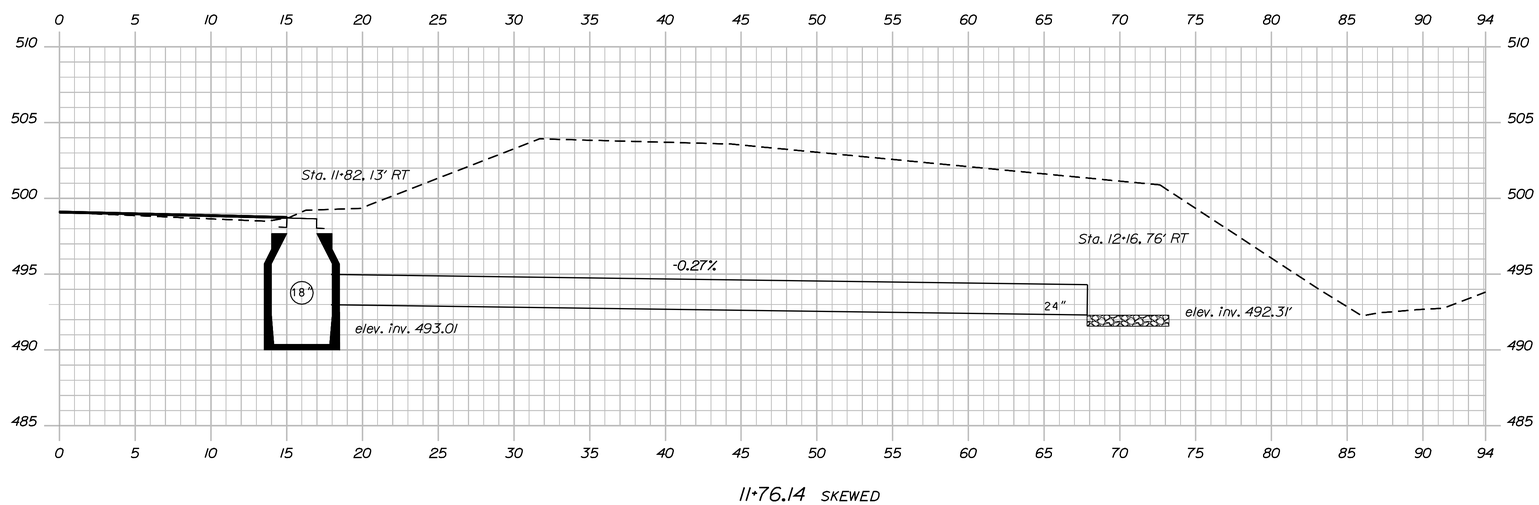
Filename: ...\00\highway\msto\012_Xsect.dgn Division: HIGHWAY Username: Jon.Bither Date:6/22/2010



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PROJ. MANAGER	JON BITHER	BY	DATE
DESIGN-DETAILED	DAN ROSS	------	------
CHECKED-REVIEWED	------	------	SIGNATURE
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DESIGN3-DETAILED3	------	------	P.E. NUMBER
REVISIONS 1	------	------	------
REVISIONS 2	------	------	------
REVISIONS 3	------	------	DATE
REVISIONS 4	------	------	------
FIELD CHANGES	------	------	------

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

017124.00

PIN
017124.00

HIGHWAY PLANS

OAKFIELD
RIDGE ROAD

CROSS SECTIONS

SHEET NUMBER
12
OF 12

Sta. 11+76.14 to Sta. 11+76.14