

STATE OF MAINE DEPARTMENT OF TRANSPORTATION



SANFORD YORK COUNTY

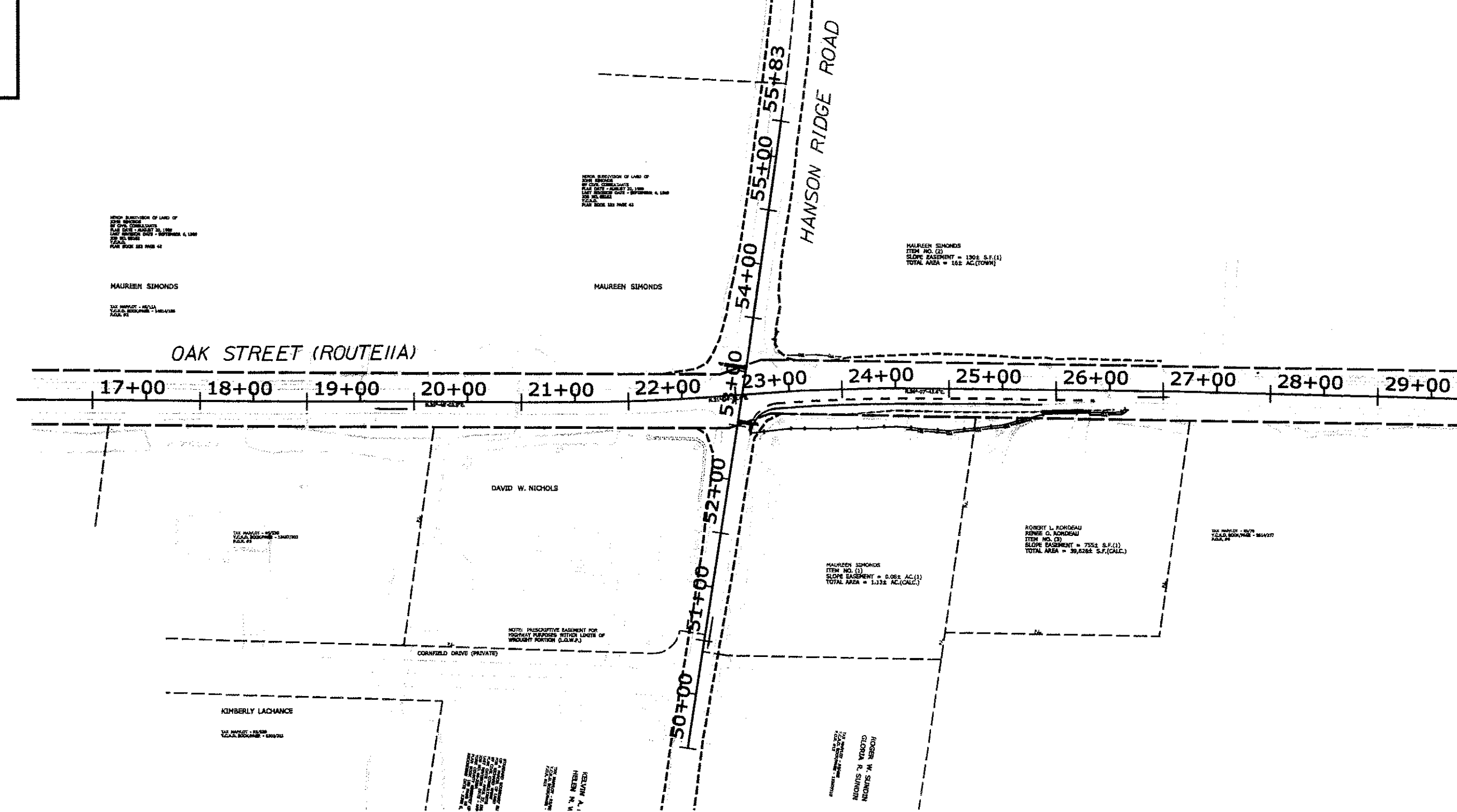
HANSON RIDGE ROAD & OAK STREET (ROUTE 11A) FEDERAL AID PROJECT NO. STP-1724(700)X FLASHING BEACON

PLAN LEGEND

Town, County, State _____	Centerline-Existing _____
Property Lines _____	Centerline-Proposed _____
R/W Lines-Existing _____	Travelway-Existing _____
R/W Lines-Proposed _____	Travelway-Proposed _____
Culvert-Existing _____	Railroad _____
Culvert Proposed _____	Catch Basins <input type="checkbox"/> Existing <input type="checkbox"/> Proposed
Curbing Existing Proposed	Manholes <input type="checkbox"/> Existing <input type="checkbox"/> Proposed
Type 1 _____	Proposed Underdrain _____
Type 3 _____	Proposed Ditch _____
Type 5 _____	Existing Ditch _____
Outline of Bodies of Water _____	Utility Poles <input type="checkbox"/> Existing <input type="checkbox"/> Proposed
Ledge _____	Fire Hydrants <input type="checkbox"/> Existing <input type="checkbox"/> Proposed
Buildings _____	Existing Water Line _____
Trees <input type="checkbox"/> Conifer <input type="checkbox"/> Deciduous	Existing San. Sewer _____
Tree Line _____	Existing San. Sewer Manhole <input type="checkbox"/>
Clearing Limit Line _____	Guardrail-Existing _____
	Guardrail-Proposed _____
	Guardrail-Cable, Other _____

INDEX OF SHEETS

Description	Sheet No.
Title Sheet	1
General Notes, Typical Section & Estimate Sheet ..	2
Geometrics Plan	3
Profile	4
Flashing Beacon Plan	5
Cross - Sections	6-7
Right of Way Map	8



LAYOUT SCALE



TRAFFIC DATA

Current (2007) AADT (OAK ST)	2,750
Current (2007) AADT (HANSON RIDGE RD)	1,380
Future (2030) AADT	-
DHV - % of AADT	-
Design Hour Volume	-
% Heavy Trucks (AADT)	-
% Heavy Trucks (DHV)	-
Directional Distribution (DHV)	-
18 kip Equivalent P 2.0	-
18 kip Equivalent P 2.5	-
Design Speed (mph)	45
Functional Class:	major collector

GP Gorrill-Palmer Consulting Engineers, Inc.
 PO Box 1237
 15 Shaker Road
 Gray, ME 04039
 Engineering Excellence Since 1998
 207-657-6910
 FAX: 207-657-6912
 E-Mail: mailbox@gorrilpalmer.com

PROJECT LOCATION:	In the town of Sanford at the intersection of Hanson Ridge Road & Oak Street
PROGRAM AREA:	Safety improvements
OUTLINE OF WORK:	Intersection improvements w/ beacon updates

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
COMMISSIONER: <i>[Signature]</i>		9/27/11
CHIEF ENGINEER: <i>[Signature]</i>		9/26/11

PROJECT INFORMATION

PROGRAM	HIGHWAY
PROJECT MANAGER	J. MANSUR
DESIGNER	D. BURGESS
CONSULTANT	
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

[Signature]
 SIGNATURE
 9/27/11
 P.E. NUMBER
 9-8-11
 DATE

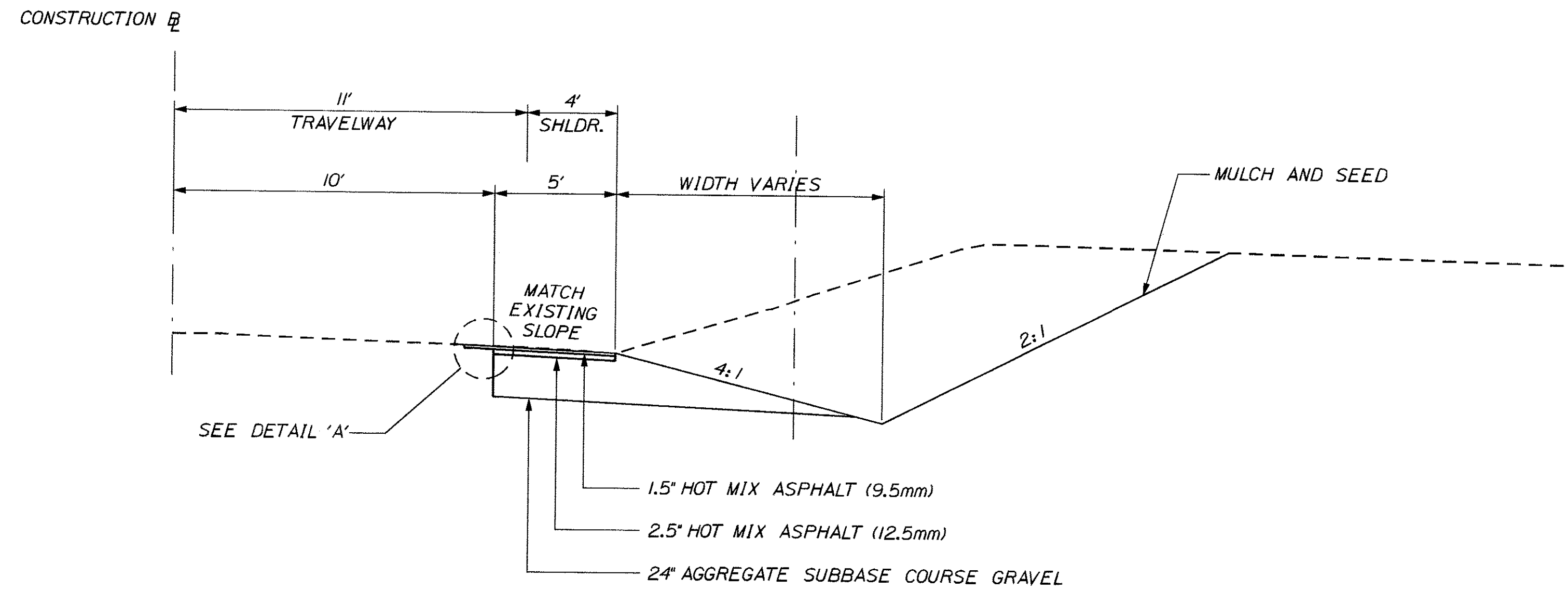
SANFORD
HANSON RIDGE ROAD & OAK STREET
TITLE SHEET

WIN 17247.00	STP-1724(700)X
SHEET NUMBER	1
OF 7	

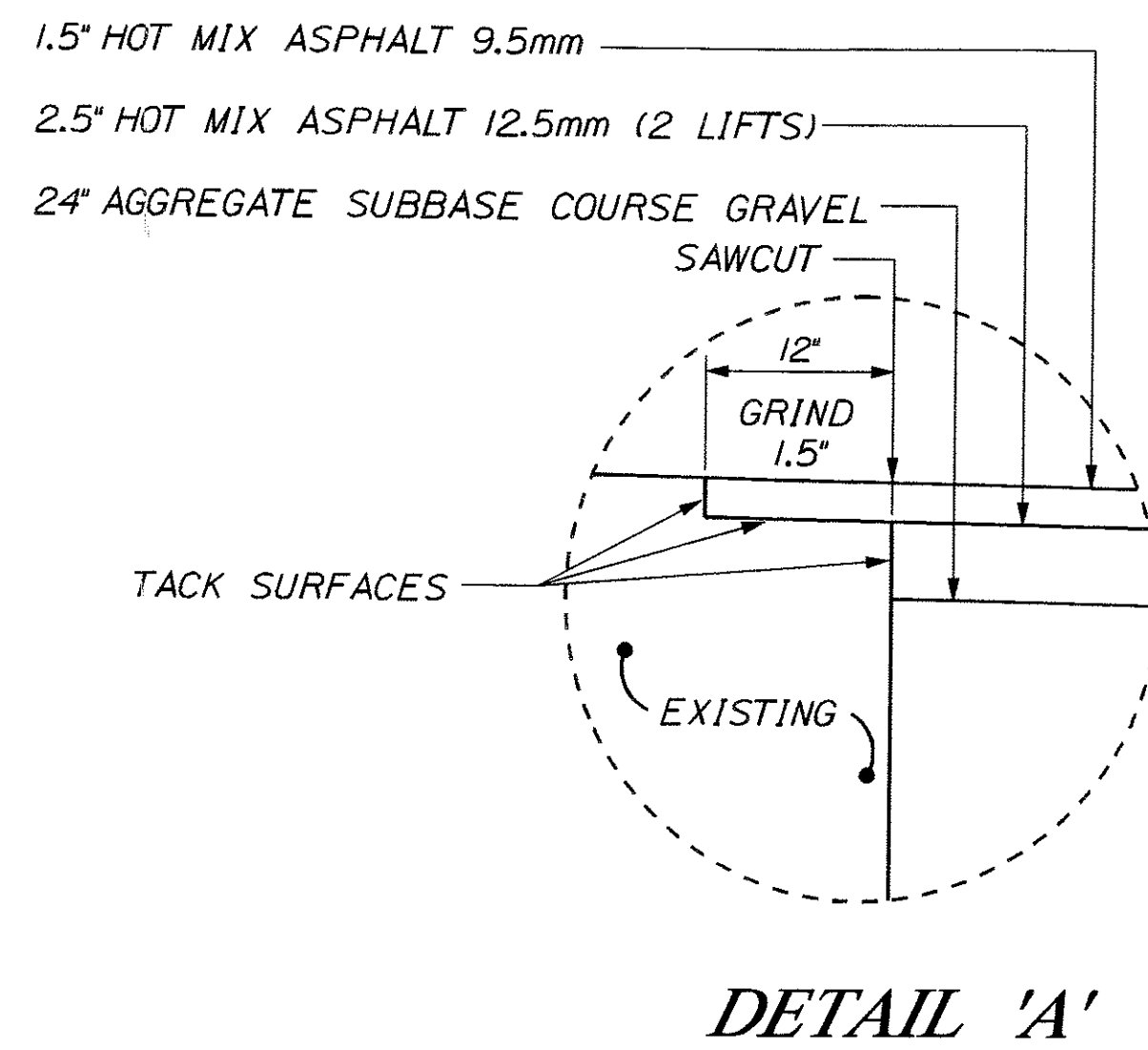
Filename: ... \highway\msta\001_TITLE_01.dgn
 Division: HIGHWAY
 Username: common
 Date: 8/18/2011

GENERAL NOTES

1. ALL UTILITY FACILITIES SHALL BE ADJUSTED BY THE RESPECTIVE UTILITIES UNLESS OTHERWISE NOTED.
2. ALL INSLOPE AND DITCHES IN CUT AREAS SHALL BE GRADED AS SHOWN ON THE TYPICALS OR FLATTER, OR AS DIRECTED BY THE RESIDENT.
3. ALL WASTE MATERIAL NOT USED ON THE PROJECT SHALL BE DISPOSED OFF THE PROJECT IN WASTE AREAS APPROVED BY THE RESIDENT.
4. LOAM HAS BEEN ESTIMATED FOR DISTURBED LAWN AREAS. ACTUAL PLACEMENT OF THE LOAM SHALL BE AS NOTED ON THE PLANS OR DESIGNATED BY THE RESIDENT.
5. UNLESS OTHERWISE NOTED SEEDING METHOD NO. 1 SHALL BE UTILIZED ON ALL LAWNS AND DEVELOPED AREAS; SEEDING METHOD NO. 2 SHALL BE UTILIZED ON ALL NON-GUARDRAIL SLOPES. SEEDING METHOD NO. 3 SHALL BE UTILIZED ON ALL GUARDRAIL FILL SLOPES. ON LONG NON-GUARDRAIL BACKSLOPES, SEEDING METHOD NO. 3 MAY BE USED INSTEAD OF METHOD NO. 2 IF NOTED OR DIRECTED BY THE RESIDENT.
6. LOAM SHALL BE PLACED TO A NOMINAL DEPTH OF 4 INCHES IN LAWN AREAS AND 2 INCHES IN ALL OTHER AREAS UNLESS OTHERWISE NOTED OR DIRECTED.
7. ANY DAMAGE TO THE SLOPES CAUSED BY THE CONTRACTOR'S EQUIPMENT, PERSONNEL, OR OPERATION SHALL BE REPAIRED TO THE SATISFACTION OF THE RESIDENT. ALL WORK, EQUIPMENT, AND MATERIALS REQUIRED TO MAKE REPAIRS SHALL BE AT THE CONTRACTOR'S EXPENSE.
8. NO SEPARATE PAYMENT FOR SUPERINTENDENT OR FOREMAN WILL BE MADE FOR THE SUPERVISION OF EQUIPMENT BEING PAID FOR UNDER THE EQUIPMENT RENTAL ITEMS.
9. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION'S BEST MANAGEMENT PRACTICES FOR EROSION CONTROL & SEDIMENT CONTROL, FEBRUARY, 2008.
10. ALL EXISTING STOP SIGNS SHALL BE MAINTAINED UNTIL NEW SIGNS ARE IN PLACE.
11. THE CONTRACTOR SHALL ANTICIPATE THAT GROUNDWATER WILL BE ENCOUNTERED DURING CONSTRUCTION AND SHALL INCLUDE SUFFICIENT COSTS WITHIN THEIR BID TO PROVIDE DEWATERING AS NECESSARY. NO SEPARATE PAYMENT SHALL BE MADE TO THE CONTRACTOR FOR DEWATERING.



TYPICAL SECTION
STA 23+12 TO STA 26+35
 NOT TO SCALE



REMOVE SINGLE TREE TOP - ITEM 201.23

- 23+41.1, 27.6' RT
- 23+68.3, 26.5' LT
- 23+75.5, 25.1' LT
- 23+84.0, 30.0' LT
- 24+84.9, 15.4' RT
- 25+41.2, 24.7' RT
- 25+82.5, 21.8' RT
- 26+34.6, 19.6' RT
- 26+48.7, 19.1' RT

REMOVE STUMP - ITEM 201.24

- 23+41.1, 27.6' RT
- 23+68.3, 26.5' LT
- 23+75.5, 25.1' LT
- 23+84.0, 30.0' LT
- 24+84.9, 15.4' RT
- 25+41.2, 24.7' RT
- 25+82.5, 21.8' RT
- 26+34.6, 19.6' RT
- 26+48.7, 19.1' RT

Date: 8/18/2011

Username: common

Division: HIGHWAY

Filename: ... \highway\msta\002_Estimate.dgn

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 STP-1724(700)X
 PIN 17247.00
 HIGHWAY PLANS

PROJ. MANAGER	J. MANBR	BY	R. NORWOOD T. GORRELL	DATE	FEB 2011 FEB 2011
CHECKED-REVIEWED				SIGNATURE	
DESIGN-DETAILED				P.E. NUMBER	
CHECKED-REVIEWED				DATE	
DESIGN-DETAILED					
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					

SANFORD
 HANSON RIDGE ROAD & OAK STREET
 GENERAL NOTES, TYPICAL SECTION
 & ESTIMATED QUANTITIES

SHEET NUMBER

2

OF 7

MAUREEN SIMONDS
 TAX MAP/LOT - R5/11A
 Y.C.R.D. BOOK/PAGE - 14814/188
 P.O.R. #2

MINOR SUBDIVISION OF LAND OF
 JOHN SIMONDS
 BY CIVIL CONSULTANTS
 PLAN DATE - AUGUST 22, 1989
 LAST REVISION DATE - SEPTEMBER 6, 1989
 JOB NO. 89162
 Y.C.R.D.
 PLAN BOOK 183 PAGE 42

MAUREEN SIMONDS
 TAX MAP/LOT - R5/26
 Y.C.R.D. BOOK/PAGE - 13178/094
 P.O.R. #5

PC = STA. 21+20.23

CURVE DATA #1
 PI = 21+96.93
 D = 2°51'53.2"
 Δ = 4°23'31.9" Lt.
 R = 2000.00'
 L = 153.32'
 T = 76.70'
 E = 1.47'

PT = STA. 54+08.16

CURVE DATA #1
 PI = 53+71.60
 D = 1°08'45.3"
 Δ = 0°50'16.6" Lt.
 R = 5000.00'
 L = 73.12'
 T = 36.56'
 E = 0.13'

PC = STA. 53+35.04

STA 23+06.24 OAK STREET =
 STA 53+28.53 HANSON RIDGE ROAD

FENCE
 PREVIOUSLY
 REMOVED 24+00

(SEE R/W REF. A)

CURVE DATA #2
 PI = 24+01.44
 D = 5°35'23.4"
 Δ = 4°43'11.6" Rt.
 R = 1025.00'
 L = 84.44'
 T = 42.24'
 E = 0.87'

PC = STA. 23+59.20

PT = STA. 24+43.64

EXCAVATE
 EXISTING HILLSIDE

CURVE DATA #3
 PI = 27+08.02
 D = 1°08'45.3"
 Δ = 0°48'18.4" Rt.
 R = 5000.00'
 L = 70.26'
 T = 35.13'
 E = 0.12'

PC = STA. 26+72.89

PT = STA. 27+43.15

JONATHAN B. MAP
 LESA A. MAPES

TAX MAP/LOT - R5/78
 Y.C.R.D. BOOK/PAGE - 8914/237
 P.O.R. #9

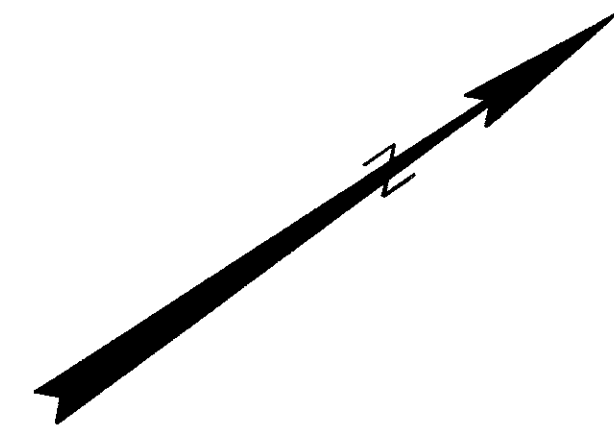
TAX MAP/LOT - R5/45F
 Y.C.R.D. BOOK/PAGE - 1960/491
 P.O.R. #7
 ROBERT L. RONDEAU

TAX MAP/LOT - R5/53H
 Y.C.R.D. BOOK/PAGE - 11636/089
 P.O.R. #4

DAVID W. NICHOLS

EXISTING RIGHT OF WAY REFERENCES
 ROUTE 11A
 A) YORK COUNTY COMMISSIONERS RECORDS (Y.C.C.R.)
 VOLUME 14, PAGE 431
 1812 3 RODS

NOTE: PRESCRIPTIVE EASEMENTS



STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 STP-1724(700)X
 PIN 17247.00
 HIGHWAY PLANS

DATE	SIGNATURE	P.E. NUMBER	DATE
R. WOOD FEB 2011			
T. CORRELL FEB 2011			

PROJ. MANAGER	BY	DATE
J. MANER	R. WOOD	FEB 2011
CHECKED-REVIEWED	T. CORRELL	FEB 2011
DESIGN-DETAILED		
DESIGN-DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SANFORD
 HANSON RIDGE ROAD & OAK STREET
 GEOMETRICS PLAN

SHEET NUMBER

3

OF 7

GP Gorrill-Palmer Consulting Engineers, Inc.
 Engineering Excellence Since 1908
 PO Box 1237 207-657-6910
 15 Shaker Road Gray, ME 04039 FAX: 207-657-6912
 E-Mail: mailbox@gorrpalmer.com

Date: 8/18/2011

Username: common

Division: HIGHWAY

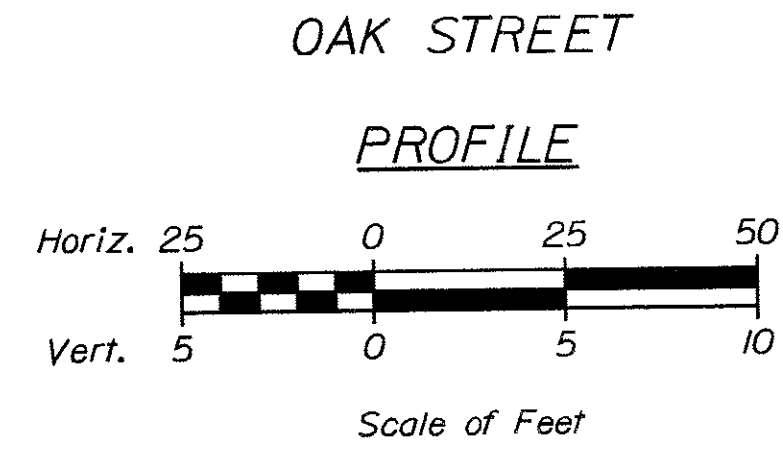
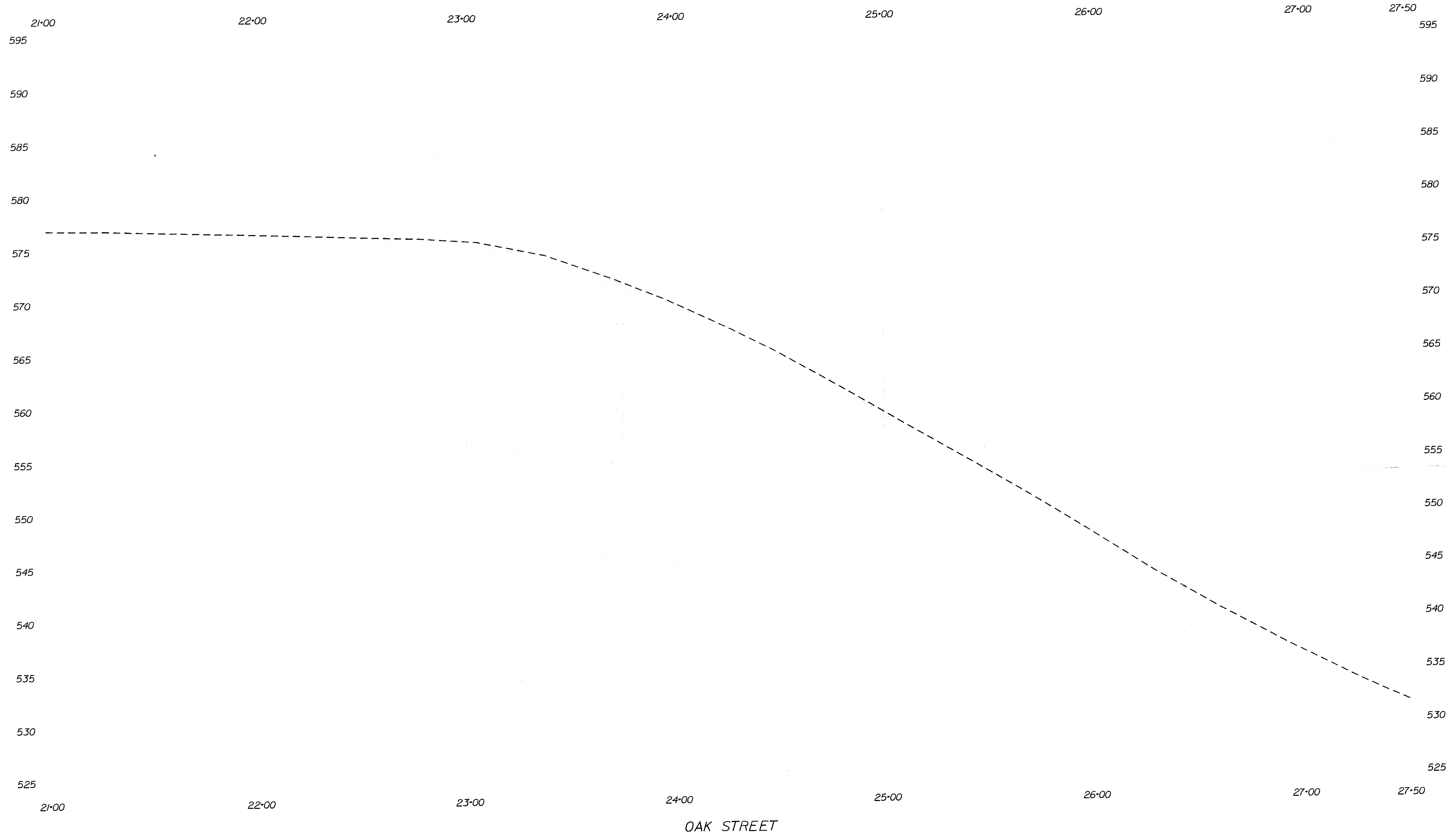
Filename: ... \highway \msta\003_PLAN01.dgn

Date: 8/18/2011

Username: common

Division: HIGHWAY

Filename: ... \highway\msta\004_PROFILE01.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-1724(700)X

PROJ. MANAGER	J. MANSIR	BY	DATE
DESIGN-DETAILED		R. NORWOOD	FEB 2011
CHECKED-REVIEWED		T. GORRILL	FEB 2011
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SANFORD
HANSON RIDGE ROAD & OAK STREET
OAK STREET PROFILE

SHEET NUMBER
4
OF 7

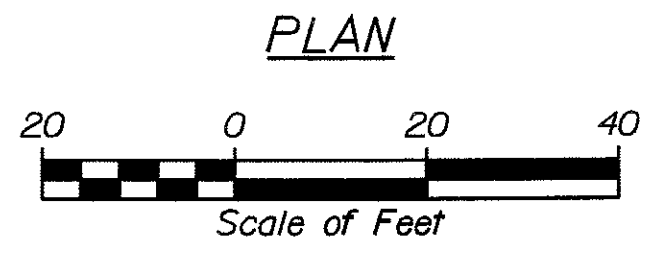
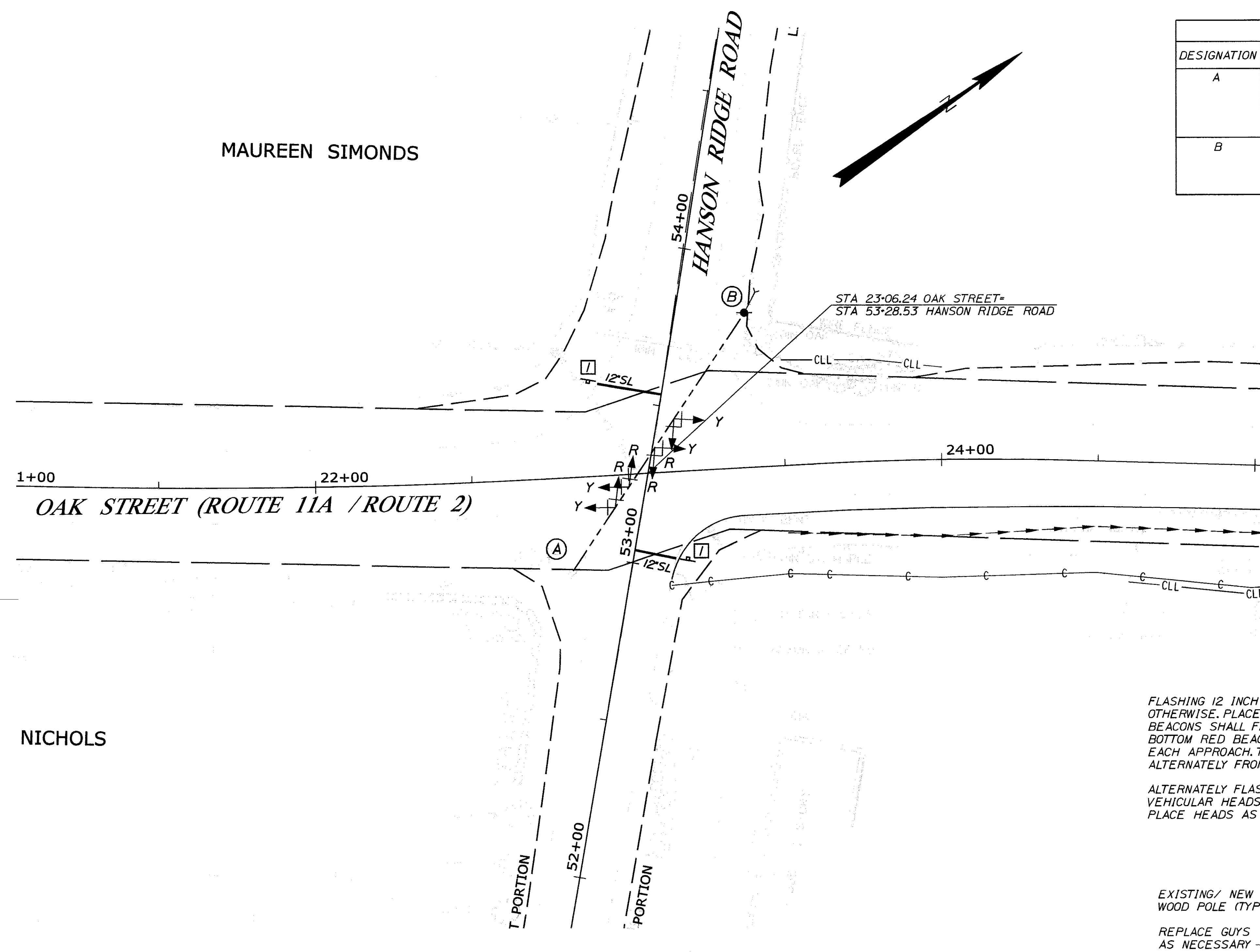
GP Gorrill-Palmer Consulting Engineers, Inc.
 Engineering Excellence Since 1998
 PO Box 1237 Gray, ME 04039
 207-657-6910
 FAX: 207-657-6912
 E-Mail: mailbox@gorrillpalmer.com

HIGHWAY PLANS

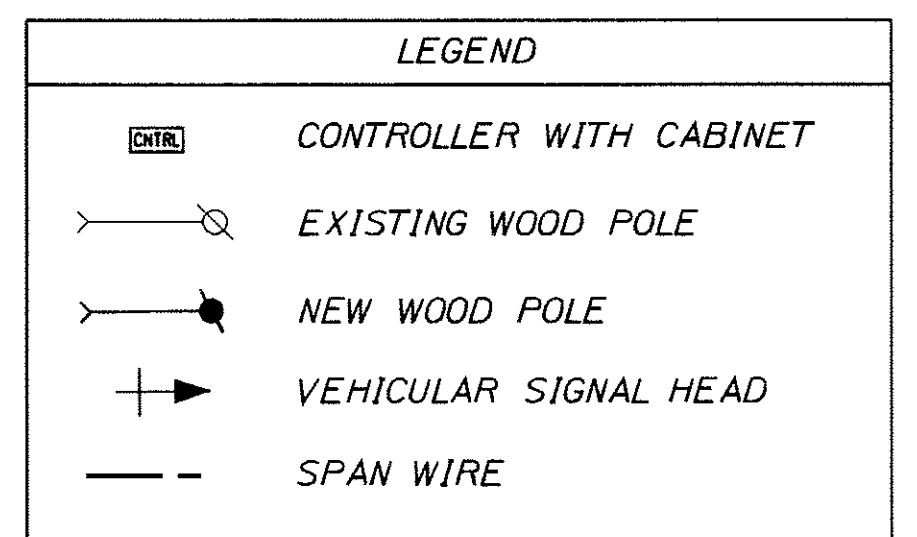
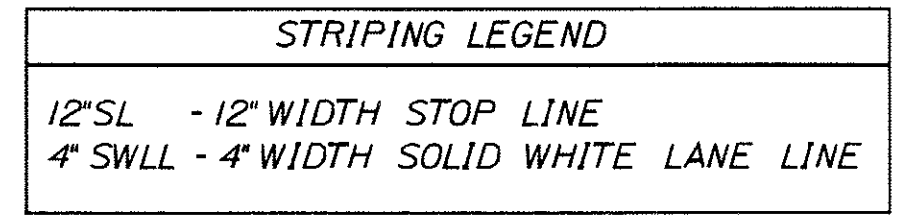
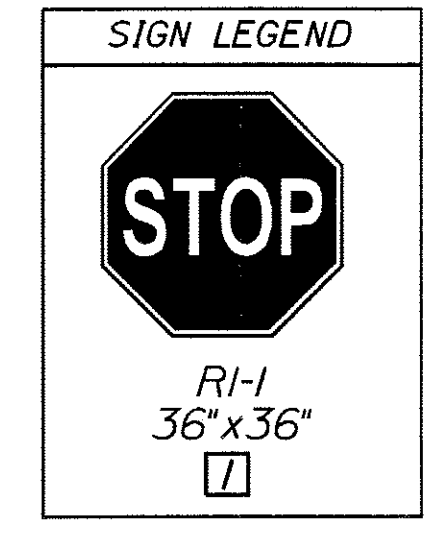
PIN 17247.00

Filename: ...highway\msta\005_PLAN02.dgn
 Division: HIGHWAY
 Username: common
 Date: 8/18/2011

MAUREEN SIMONDS



EQUIPMENT SCHEDULE			
DESIGNATION	FATIGUE CATEGORY	ITEM	DESCRIPTION
A		EXISTING WOOD POLE	EXISTING SPAN WIRE AND FLASHERS TO BE REMOVED; INSTALL NEW SPAN WIRE, NEW LOWER TETHER, NEW FLASHING EXPANDED VIEW LED POLY CARBONATE VEHICULAR HEADS, AND CONTROLLER CABINET; EXISTING LUMINAIRE TO REMAIN
B		NEW WOOD POLE	EXISTING SPAN WIRE, FLASHERS AND POLE TO BE REMOVED; INSTALL NEW POLE, GUY WIRE, SPAN WIRE, NEW LOWER TETHER, AND NEW FLASHING EXPANDED VIEW LED POLY CARBONATE VEHICULAR HEADS.



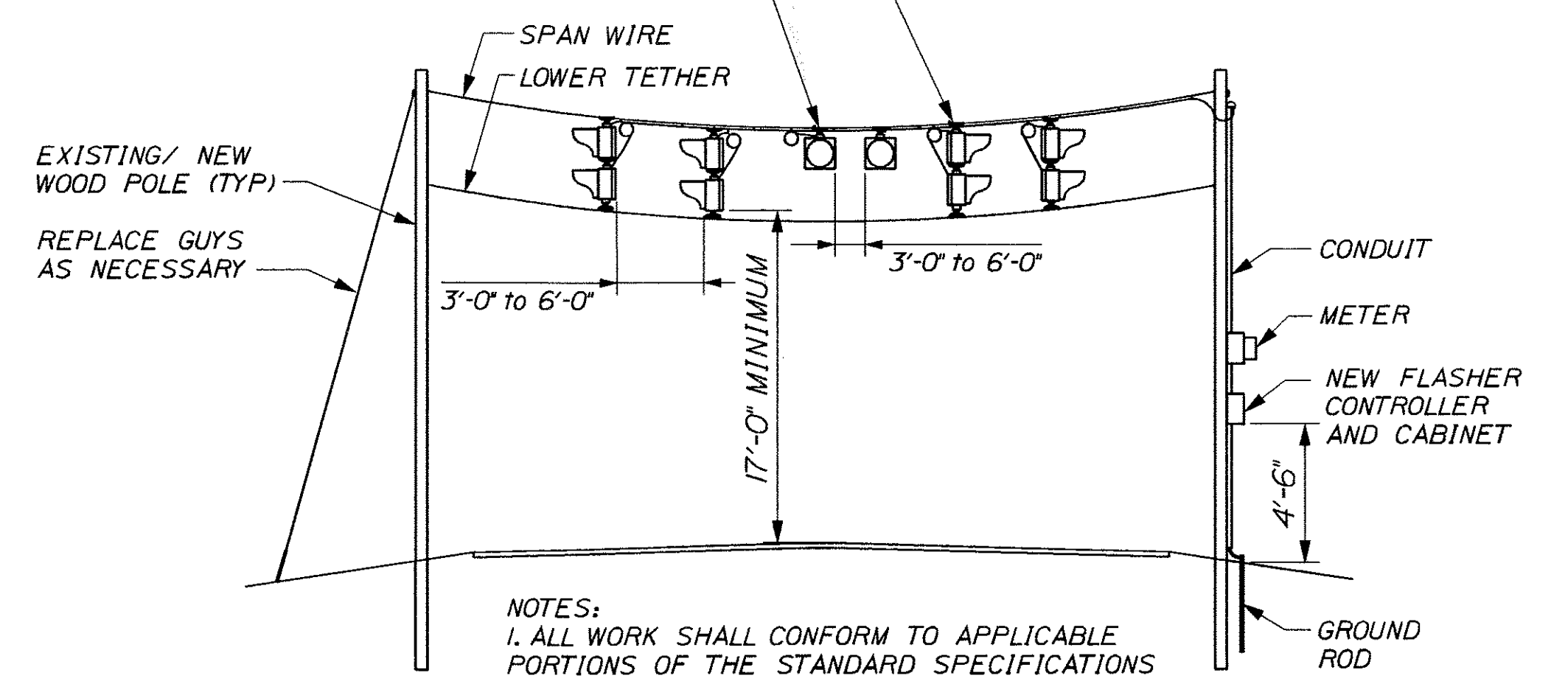
STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 STP-1724(700)X
 PIN 17247.00
 HIGHWAY PLANS

PROJ. MANAGER	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
J. MANSUR	R. NORWOOD	FEB 2011			
	T. CORRILL	FEB 2011			

NICHOLS

FLASHING 12 INCH RED LED VEHICULAR HEADS, UNLESS NOTED OTHERWISE. PLACE HEADS AS NEEDED ON SPAN WIRE. TOP BEACONS SHALL FLASH SIMULTANEOUSLY ON EACH APPROACH. BOTTOM RED BEACONS SHALL FLASH SIMULTANEOUSLY ON EACH APPROACH. TOP AND BOTTOM BEACONS SHALL FLASH ALTERNATELY FROM EACH OTHER. (TYP.)

ALTERNATELY FLASHING 12 INCH YELLOW LED VEHICULAR HEADS, UNLESS NOTED OTHERWISE. PLACE HEADS AS NEEDED ON SPAN WIRE (TYP.)



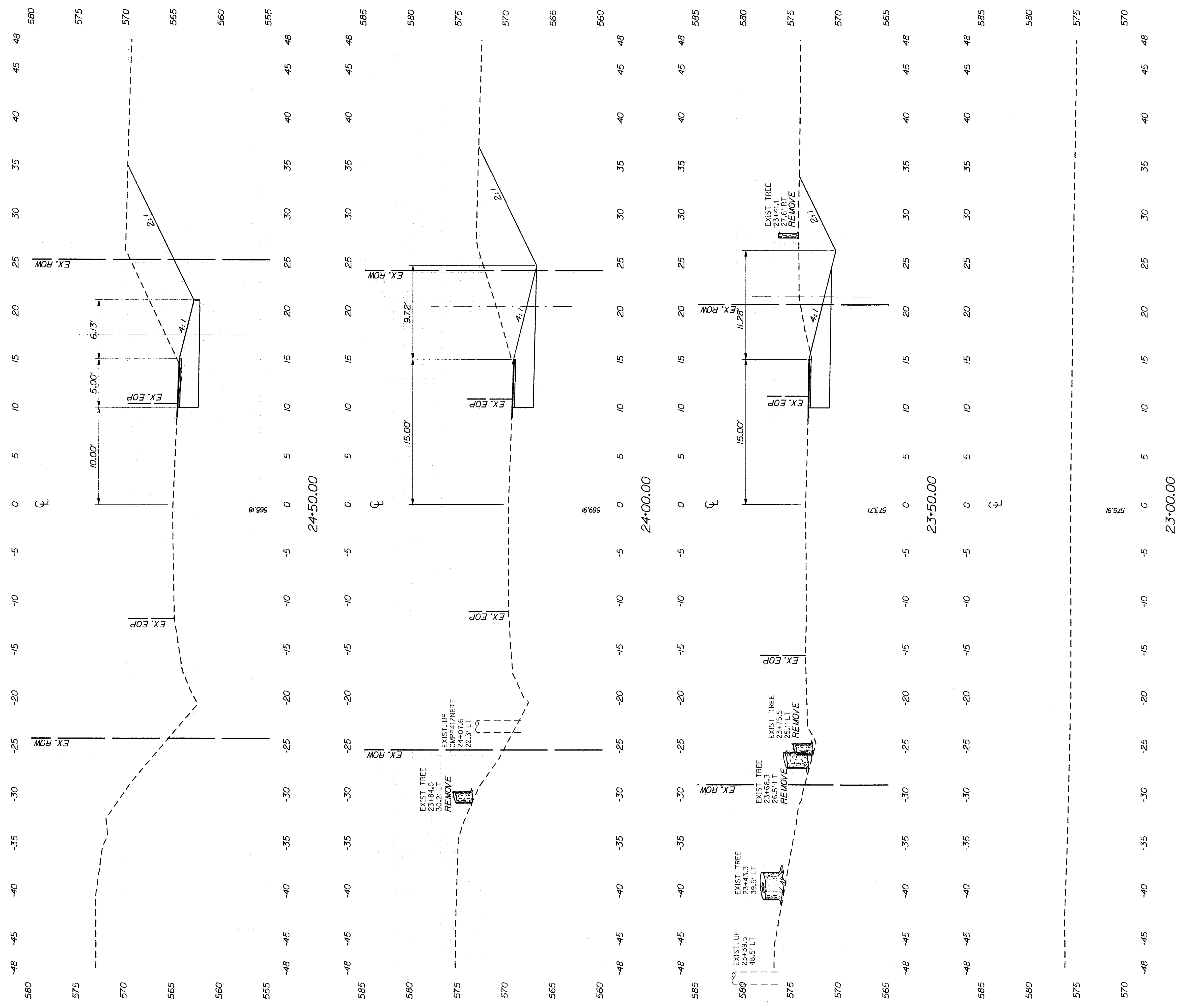
NOTES:
 1. ALL WORK SHALL CONFORM TO APPLICABLE PORTIONS OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAILS.
 2. BEACONS TO FLASH YELLOW FOR OAK STREET AND RED FOR HANSON RIDGE ROAD.

TYPICAL FLASHING BEACON INSTALLATION
 ITEM NO. 643.60

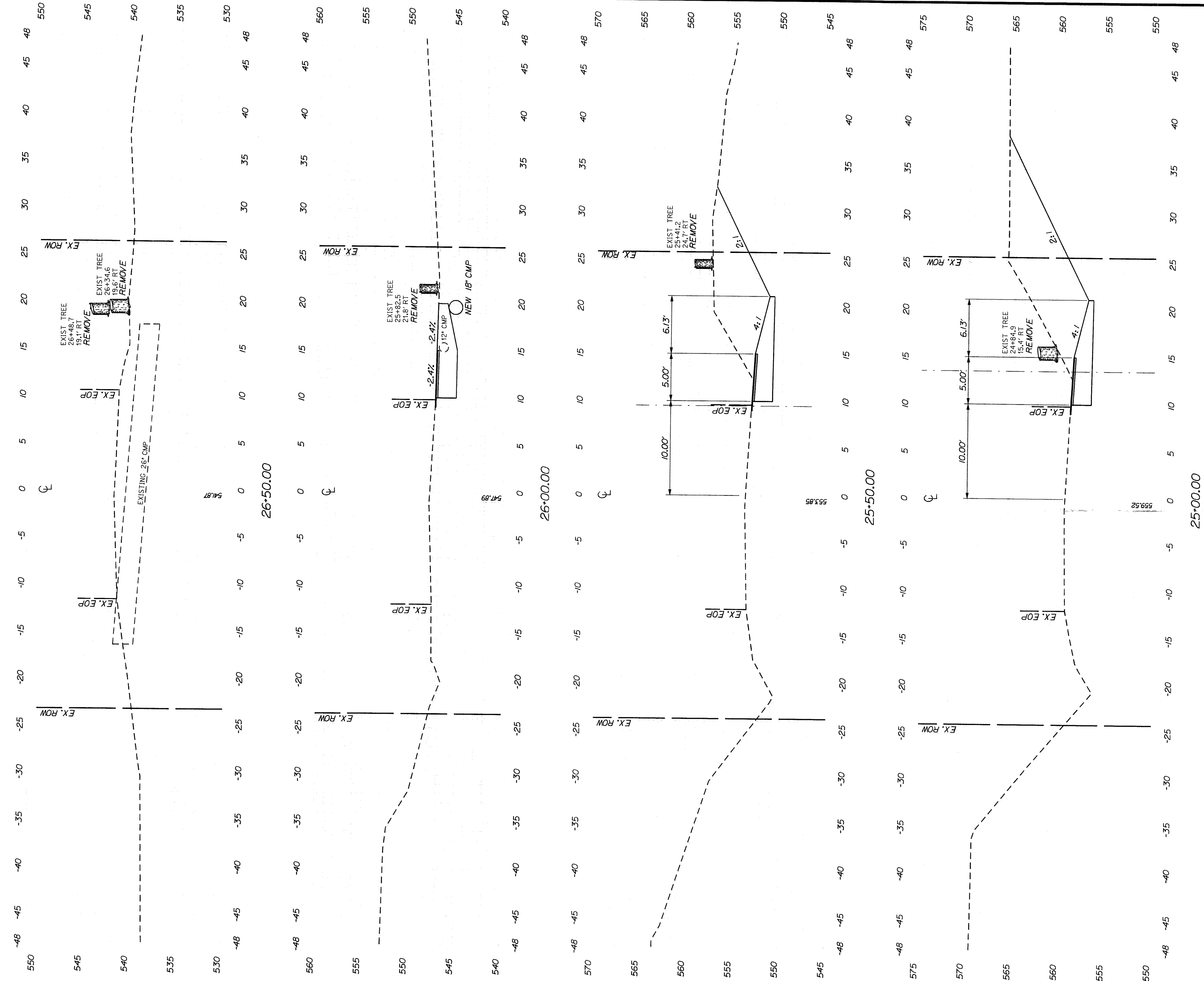
SANFORD
 HANSON RIDGE ROAD & OAK STREET
 FLASHING BEACON PLAN

SHEET NUMBER
 5
 OF 7

GP Gorrill-Palmer Consulting Engineers, Inc.
 PO Box 1237 15 Shaker Road Grey, ME 04039
 Engineering Excellence Since 1998
 207-657-6910
 FAX: 207-657-6912
 E-Mail: mailbox@gorrillpalmer.com



<p>STATE OF MAINE DEPARTMENT OF TRANSPORTATION</p>		<p>PROJECT MANAGER</p>		<p>BY</p>		<p>DATE</p>	
		<p>DESIGN-RETAINED</p>	<p>DESIGN-REMOVED</p>	<p>J. MANSUR</p>	<p>R. MORWOOD</p>	<p>FEB 2011</p>	<p>FEB 2011</p>
<p>SANFORD HANSON RIDGE ROAD & OAK STREET</p>		<p>DESIGN-DETAILED2</p>		<p>DESIGN-DETAILED3</p>		<p>DESIGN-DETAILED4</p>	
		<p>REVISIONS 1</p>		<p>REVISIONS 2</p>		<p>REVISIONS 3</p>	
		<p>REVISIONS 4</p>		<p>REVISIONS 5</p>		<p>REVISIONS 6</p>	
		<p>FIELD CHANGES</p>		<p>P.E. NUMBER</p>		<p>DATE</p>	
<p>OF 7</p>		<p>6</p>		<p>CROSS SECTIONS</p>		<p>STP-1724(700)X</p>	
<p>Sta. 23+00.00 to Sta. 24+50.00</p>		<p>17247.00</p>		<p>HIGHWAY PLANS</p>		<p>PIN</p>	



OF 7	SANFORD HANSON RIDGE ROAD & OAK STREET CROSS SECTIONS	STATE OF MAINE DEPARTMENT OF TRANSPORTATION STP-1724(700)X PIN 17247.00 HIGHWAY PLANS
SHEET NUMBER		SIGNATURE
REVISIONS 1 REVISIONS 2 REVISIONS 3 REVISIONS 4 FIELD CHANGES		P.E. NUMBER DATE
PROJ. MANAGER J. MANSIR	BY R. WOODWARD T. GORRELL	DATE FEB 2011 FEB 2011