

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



AUBURN
ANDROSCOGGIN COUNTY
MINOT AVENUE ROTARY
STP-1159(900)X

PROJECT LENGTH : 0.25 MILES

PLAN LEGEND

Town, County, State	Centerline-Existing	
Property Lines	Centerline-Proposed	10+00
R/W Lines-Existing	Travelway-Existing	
R/W Lines-Proposed	Travelway-Proposed	
Culvert-Existing	Railroad	
Culvert Proposed	Catch Basins	Existing Proposed
Curbing Existing	Manholes	Existing Proposed
Type 1	Proposed Underdrain	
Type 3	Proposed Ditch	
Type 5	Existing Ditch	
Outline of Bodies of Water	Utility Poles	Existing Proposed
Ledge	Fire Hydrants	Existing Proposed
Buildings	Existing Water Line	
Trees	Existing San. Sewer	
Tree Line	Existing San. Sewer Manhole	
Clearing Limit Line	Guardrail-Existing	
	Guardrail-Proposed	
	Guardrail-Cable, Other	

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

APPROVED	DATE
COMMISSIONER	3/15/12
CHIEF ENGINEER	3/15/12



SIGNATURE	DATE
P.E. NUMBER	

PROJECT INFORMATION

PROGRAM	HIGHWAY
PROJECT MANAGER	P. MACDONALD
DESIGNER	A. MOUSSEAU
CONSULTANT	
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

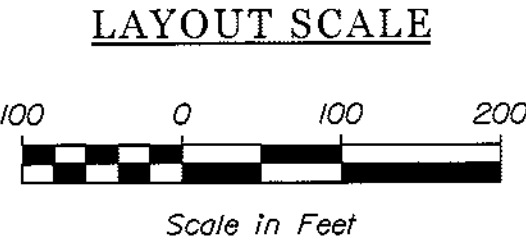
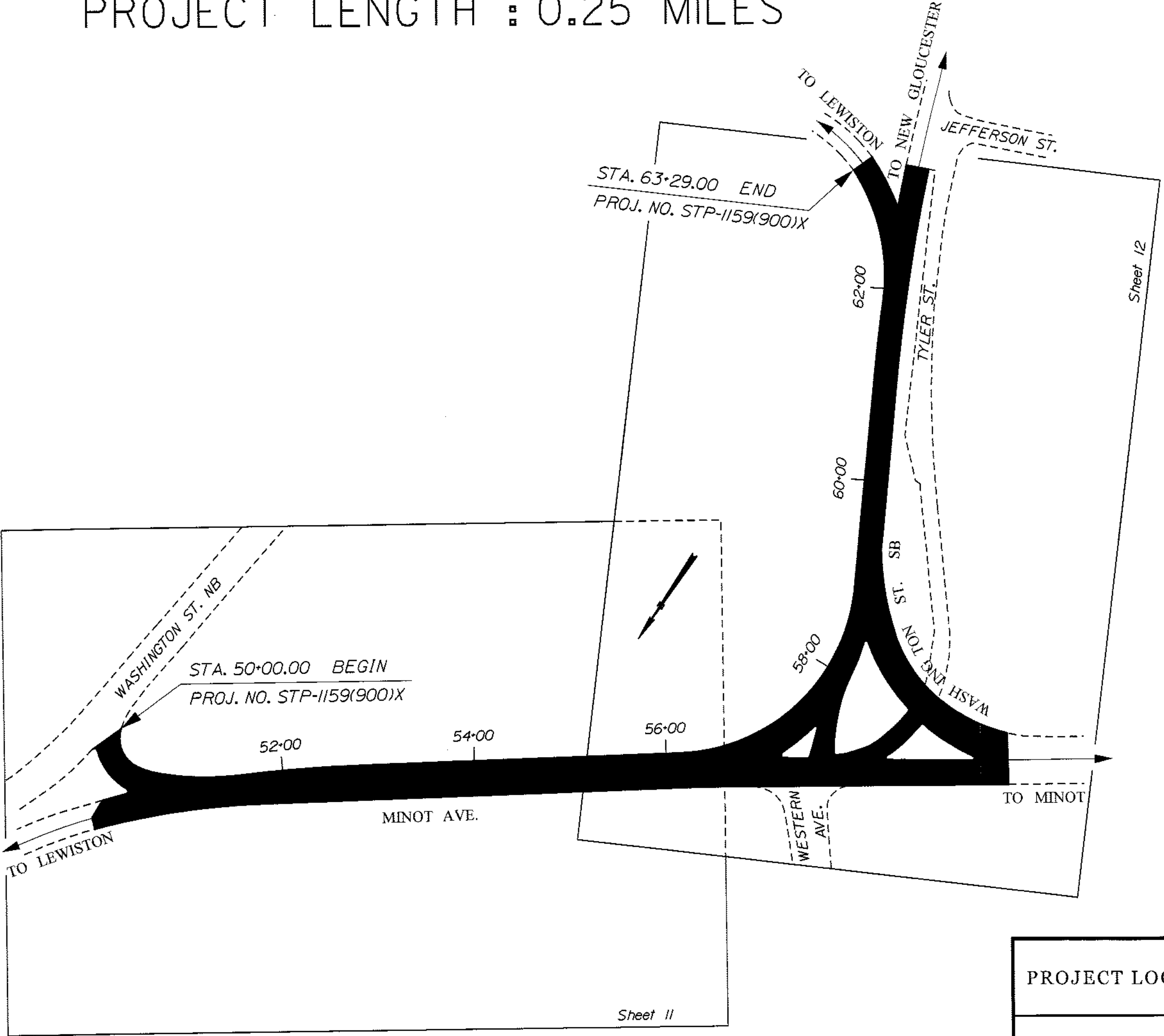
AUBURN
MINOT AVENUE ROTARY

TITLE SHEET

SHEET NUMBER

1

OF 6



TRAFFIC DATA

	MINOT AVE. (E/O WESTERN AVE.)	MINOT AVE. (SW/O TYLER ST.)	WASHINGTON ST. (SOUTHBOUND)
Current (2012) AADT	16570	15160	13070
Future (2032) AADT	19880	18190	15680
DHV - % of AADT	10%	10%	10%
Design Hour Volume	1988	1819	1568
% Heavy Trucks (AADT)	11%	7%	12%
% Heavy Trucks (DHV)	11%	7%	12%
Directional Distribution (DHV)	100%	60%	100%
18 kip Equivalent P 2.0	2577	497	2344
18 kip Equivalent P 2.5	2455	474	2233
Design Speed (mph)	25	25	25
Functional Class:	Major Arterial	Minor Arterial	Major Arterial

PROJECT LOCATION:	INTERSECTION OF MINOT AVENUE, WASHINGTON STREET, AND WESTERN AVENUE
PROGRAM AREA:	HIGHWAY PROGRAM
SCOPE OF WORK:	STRIPING AND CURB RECONFIGURATION

WIN 11599.00 STP-1159(900)X

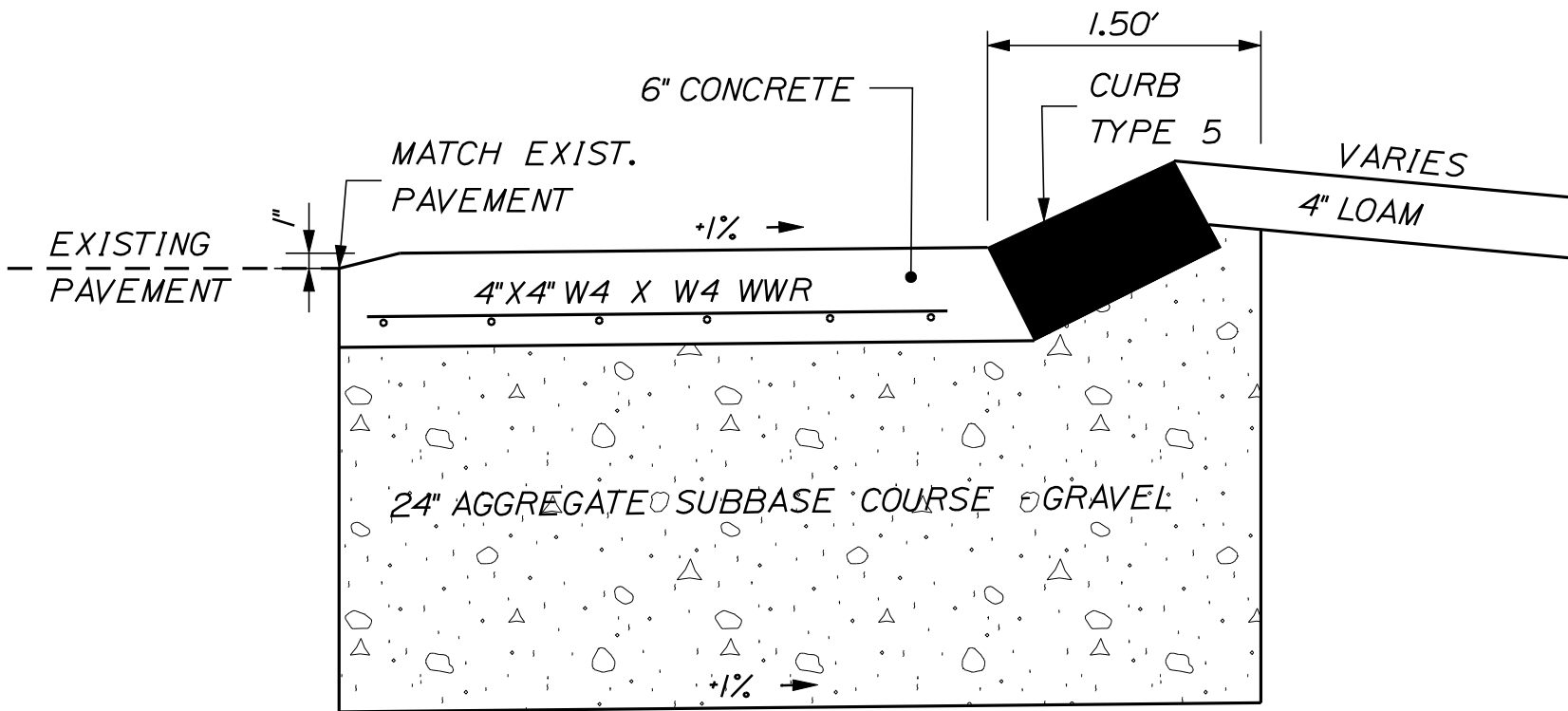
ESTIMATED QUANTITIES

FOR ESTIMATED QUANTITIES, REFER TO THE MOST CURRENT SCHEDULE OF ITEMS IN THE CONTRACT BOOK.

GENERAL NOTES

1. NO UTILITY INVOLVEMENT IS ANTICIPATED.
2. ALL WASTE MATERIAL NOT USED ON THE PROJECT SHALL BE DISPOSED OF OFF THE PROJECT IN WASTE AREAS APPROVED BY THE RESIDENT.
3. LOAM SHALL BE PLACED TO A NOMINAL DEPTH OF 4 INCHES.
4. SEEDING METHOD NO. 2 SHALL BE UTILIZED ON ALL DISTURBED AREAS.
5. 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.
6. NO SEPARATE PAYMENT FOR SUPERINTENDENT OR FOREMAN WILL BE MADE FOR THE SUPERVISION OF EQUIPMENT BEING PAID FOR UNDER THE EQUIPMENT RENTAL ITEMS.
7. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION'S BEST MANAGEMENT PRACTICES FOR EROSION CONTROL & SEDIMENT CONTROL, FEBRUARY, 2008.
8. ALL STRIPING THAT WILL NOT BE RE-STRIPED ACCORDING TO THE STRIPING PLAN SHALL BE REMOVED AS DIRECTED BY THE RESIDENT. PAYMENT WILL BE MADE UNDER ITEM 627.77 REMOVE PAVEMENT MARKINGS.
9. ALL STRIPING SHALL BE LAID OUT ACCORDING TO THE CURVE DATA AND OTHER INFORMATION PROVIDED. WHERE NO INFORMATION HAS BEEN PROVIDED, STRIPING SHALL BE LAID OUT AS DIRECTED BY THE RESIDENT. MINOR FIELD ADJUSTMENTS MAY NEED TO BE MADE TO BETTER MATCH EXISTING STRIPING AT LIMITS OF WORK.

CONCRETE ISLAND DETAIL



1. SAWCUT PAVEMENT VERTICALLY AND REMOVE THE EXISTING MATERIAL TO SPECIFIED SUBGRADE AS DIRECTED BY THE RESIDENT.
2. APPLY A LIGHT COAT OF ASPHALT TO ACT AS A BOND BREAKER BETWEEN THE CONCRETE AND ADJACENT PAVEMENT.
3. CONSTRUCT CONCRETE ISLAND WITH CLASS A CONCRETE.
4. ISLAND EDGES SHALL BE BEVELED AT A 4:1 SLOPE.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	AUBURN MINOT AVENUE ROTARY										SHEET NUMBER	
	TYPICAL SECTIONS, GENERAL NOTES & ESTIMATED QUANTITIES										2	
	OF 6											
	PROJ. MANAGER P. MACDONALD										BY	
	CHECKED-REVIEWED A. MOUSSEAU										BT	
	DESIGNED-DETAILED										TRAN	
	REVISIONS 1											
	REVISIONS 2											
	REVISIONS 3											
	REVISIONS 4											
FIELD CHANGES												
DATE												
P.E. NUMBER												
SIGNATURE										03/2012		
WIN 11599.00										HIGHWAY PLANS		

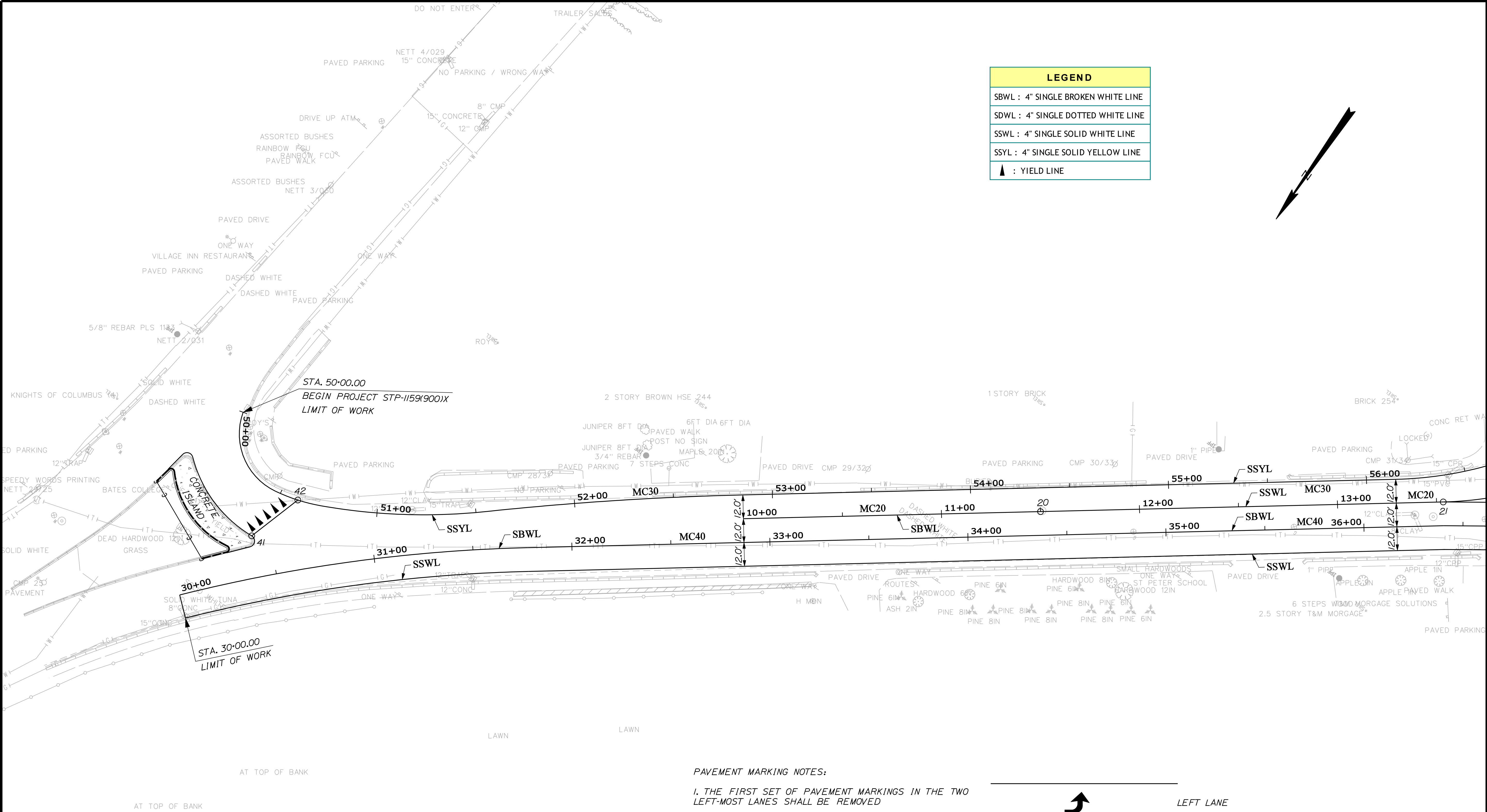
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Date:3/21/2012

Username: atlee.mousseau

Division: HIGHWAY

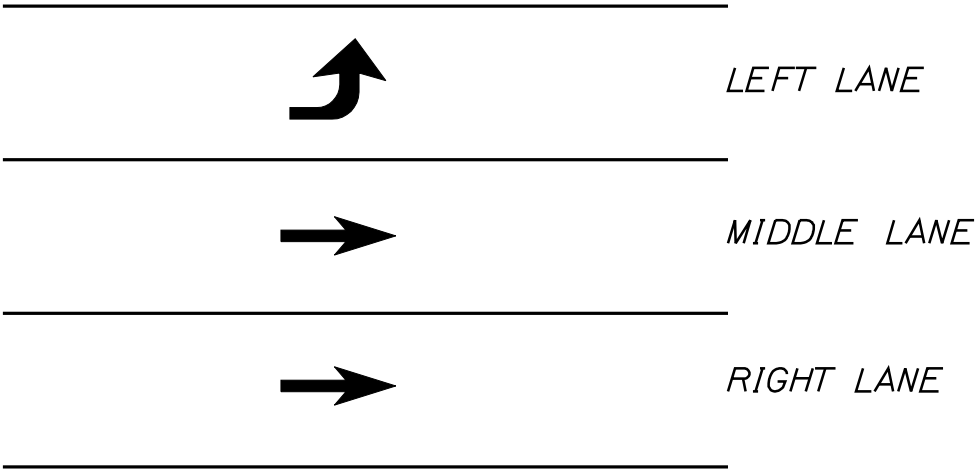
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LEGEND
SBWL : 4" SINGLE BROKEN WHITE LINE
SDWL : 4" SINGLE DOTTED WHITE LINE
SSWL : 4" SINGLE SOLID WHITE LINE
SSYL : 4" SINGLE SOLID YELLOW LINE
▲ : YIELD LINE

PAVEMENT MARKING NOTES:

1. THE FIRST SET OF PAVEMENT MARKINGS IN THE TWO LEFT-MOST LANES SHALL BE REMOVED
2. MIDDLE LANE LEFT/THROUGH COMBINATION ARROW SHALL BE REPLACED WITH THROUGH ONLY ARROW TO REFLECT THE DETAIL SHOWN HERE.
3. ALL ADJUSTMENTS TO PAVEMENT MARKING ARROWS SHALL BE AS DIRECTED BY THE RESIDENT.
4. PAYMENT WILL BE MADE UNDER THE APPROPRIATE STRIPING ITEMS.



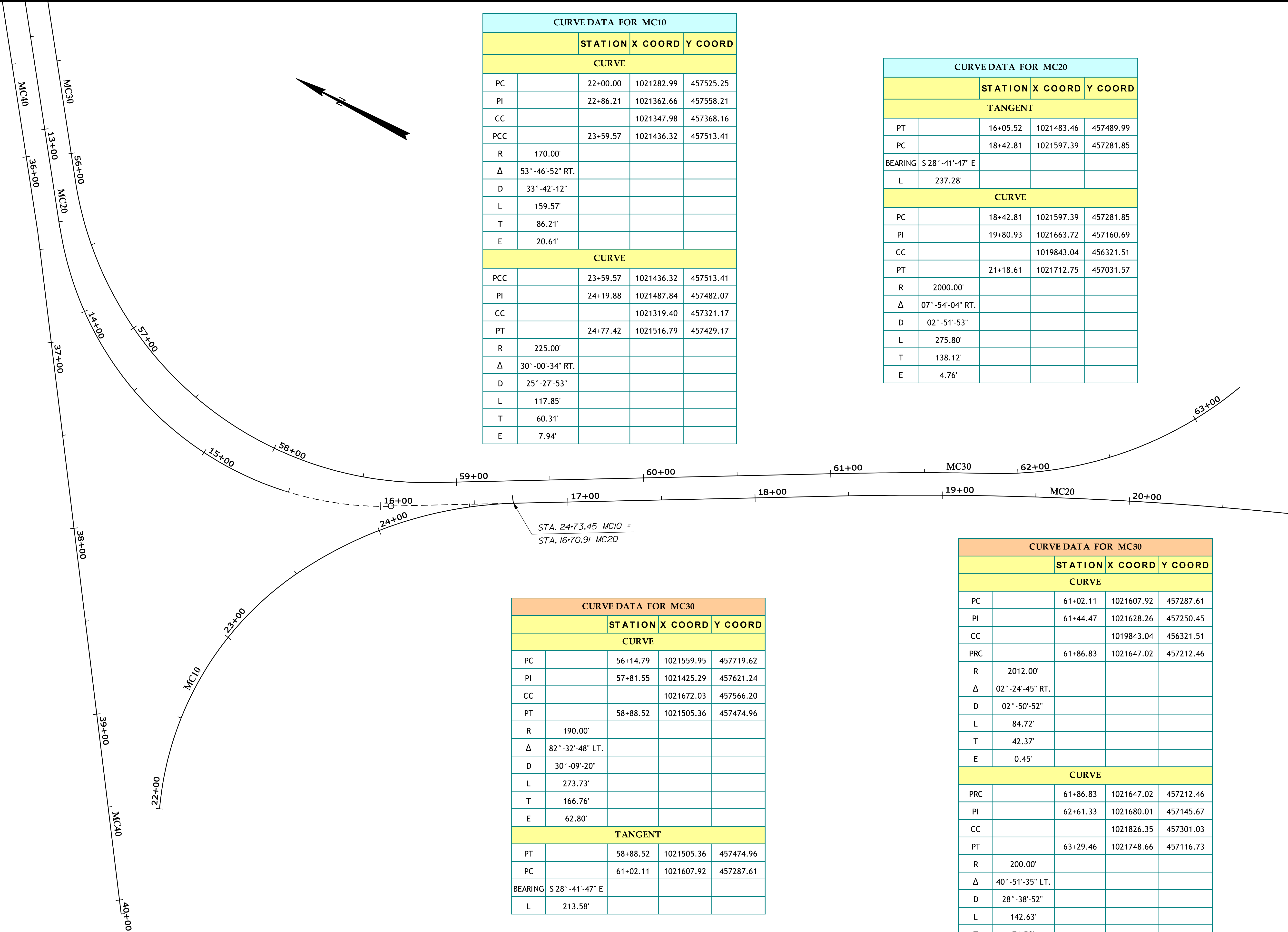
STATE OF MAINE DEPARTMENT OF TRANSPORTATION	SIGNATURE		DATE
	P.E. NUMBER		
STP-1159(900)X	WIN		HIGHWAY PLANS
11599.00			
AUBURN MINOT AVENUE ROTARY		PLANS	
SHEET NUMBER		3	
		OF 6	

PT. TO PT.	RADIUS	LENGTH	STATION	OFFSET	X COORD	Y COORD
TANGENT , CURVE & CENTER POINT DATA FOR ISL02						
ITEM 609.34 CURB TYPE 5 - ISLAND						
1 - 2		8.53'				
7 - 4		12.82'				
ITEM 609.35 CURB TYPE 5 - CIRCULAR						
2 - 3	2.00'	4.47'	30+10.12	61.38' LT.	1022069.95	458069.24
3 - 8	47.00'	47.80'	30+55.55	56.68' LT.	1022032.98	458037.08
8 - 7	2.00'	4.89'	30+27.61	17.34' LT.	1022025.07	458085.44

CURVE DATA FOR MC20				
		STATION	X COORD	Y COORD
TANGENT				
POB		10+00.00	1021819.09	457923.80
PC		13+53.40	1021533.73	457715.33
BEARING	S 53° -51'-00" W			
L	353.40'			
CURVE				
PC		13+53.40	1021533.73	457715.33
PI		15+07.00	1021409.71	457624.72
CC			1021636.96	457574.02
PT		16+05.52	1021483.46	457489.99
R	175.00'			
Δ	82° -32'-48" LT.			
D	32° -44'-26"			
L	252.12'			
T	153.60'			
E	57.85'			

CURVE DATA FOR MC30				
		STATION	X COORD	Y COORD
CURVE				
PC		50+00.00	1022057.22	458023.71
PI		50+29.12	1022049.82	458051.88
CC			1022026.27	458015.58
PCC		50+47.25	1022021.09	458047.16
R	32.00'			
Δ	84° -35'-56" LT.			
D	179° -02'-58"			
L	47.25'			
T	29.12'			
E	11.26'			
CURVE				
PCC		50+47.25	1022021.09	458047.16
PI		50+59.48	1022009.02	458045.18
CC			1022035.67	457958.35
PCC		50+71.56	1021997.91	458040.05
R	90.00'			
Δ	15° -28'-40" LT.			
D	63° -39'-43"			
L	24.31'			
T	12.23'			
E	0.83'			

OF 6 SHEET NUMBER AUBURN MINOT AVENUE ROTARY GEOMETRIC LAYOUT	PROJ. MANAGER	P. MACDONALD	BY	DATE	STATE OF MAINE DEPARTMENT OF TRANSPORTATION	
	DESIGN-DETAILED	A. MOUSSEAU	BT	TRAN		03/20/02
	CHECKED-REVISED					SIGNATURE
	DESIGN-DETAILED2					
	DESIGN-DETAILED3					P.E. NUMBER
	REVISIONS 1					
	REVISIONS 2					DATE
REVISIONS 3						
REVISIONS 4						
FIELD CHANGES						
					WIN 11599.00	HIGHWAY PLANS



CURVE DATA FOR MC10				
		STATION	X COORD	Y COORD
CURVE				
PC		22+00.00	1021282.99	457525.25
PI		22+86.21	1021362.66	457558.21
CC			1021347.98	457368.16
PCC		23+59.57	1021436.32	457513.41
R	170.00'			
Δ	53° -46'-52" RT.			
D	33° -42'-12"			
L	159.57'			
T	86.21'			
E	20.61'			
CURVE				
PCC		23+59.57	1021436.32	457513.41
PI		24+19.88	1021487.84	457482.07
CC			1021319.40	457321.17
PT		24+77.42	1021516.79	457429.17
R	225.00'			
Δ	30° -00'-34" RT.			
D	25° -27'-53"			
L	117.85'			
T	60.31'			
E	7.94'			

CURVE DATA FOR MC20				
		STATION	X COORD	Y COORD
TANGENT				
PT		16+05.52	1021483.46	457489.99
PC		18+42.81	1021597.39	457281.85
BEARING	S 28° -41'-47" E			
L	237.28'			
CURVE				
PC		18+42.81	1021597.39	457281.85
PI		19+80.93	1021663.72	457160.69
CC			1019843.04	456321.51
PT		21+18.61	1021712.75	457031.57
R	2000.00'			
Δ	07° -54'-04" RT.			
D	02° -51'-53"			
L	275.80'			
T	138.12'			
E	4.76'			

CURVE DATA FOR MC30				
		STATION	X COORD	Y COORD
CURVE				
PC		56+14.79	1021559.95	457719.62
PI		57+81.55	1021425.29	457621.24
CC			1021672.03	457566.20
PT		58+88.52	1021505.36	457474.96
R	190.00'			
Δ	82° -32'-48" LT.			
D	30° -09'-20"			
L	273.73'			
T	166.76'			
E	62.80'			
TANGENT				
PT		58+88.52	1021505.36	457474.96
PC		61+02.11	1021607.92	457287.61
BEARING	S 28° -41'-47" E			
L	213.58'			

CURVE DATA FOR MC30				
		STATION	X COORD	Y COORD
CURVE				
PC		61+02.11	1021607.92	457287.61
PI		61+44.47	1021628.26	457250.45
CC			1019843.04	456321.51
PRC		61+86.83	1021647.02	457212.46
R	2012.00'			
Δ	02° -24'-45" RT.			
D	02° -50'-52"			
L	84.72'			
T	42.37'			
E	0.45'			
CURVE				
PRC		61+86.83	1021647.02	457212.46
PI		62+61.33	1021680.01	457145.67
CC			1021826.35	457301.03
PT		63+29.46	1021748.66	457116.73
R	200.00'			
Δ	40° -51'-35" LT.			
D	28° -38'-52"			
L	142.63'			
T	74.50'			
E	13.42'			

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-1159(900)X

WIN
11599.00
HIGHWAY PLANS

PROJ. MANAGER
P. MACDONALD

CHECKED-REVIEWED
A. MOUSSEAU

DESIGN-DETAILED
A. MOUSSEAU

DESIGN-DETAILED
A. MOUSSEAU

REVISIONS 1

REVISIONS 2

REVISIONS 3

REVISIONS 4

FIELD CHANGES

DATE
03/2012

BY
BT TRAN

SIGNATURE

P.E. NUMBER

DATE

AUBURN
MINOT AVENUE ROTARY

GEOMETRIC LAYOUT

SHEET NUMBER
6
OF 6