

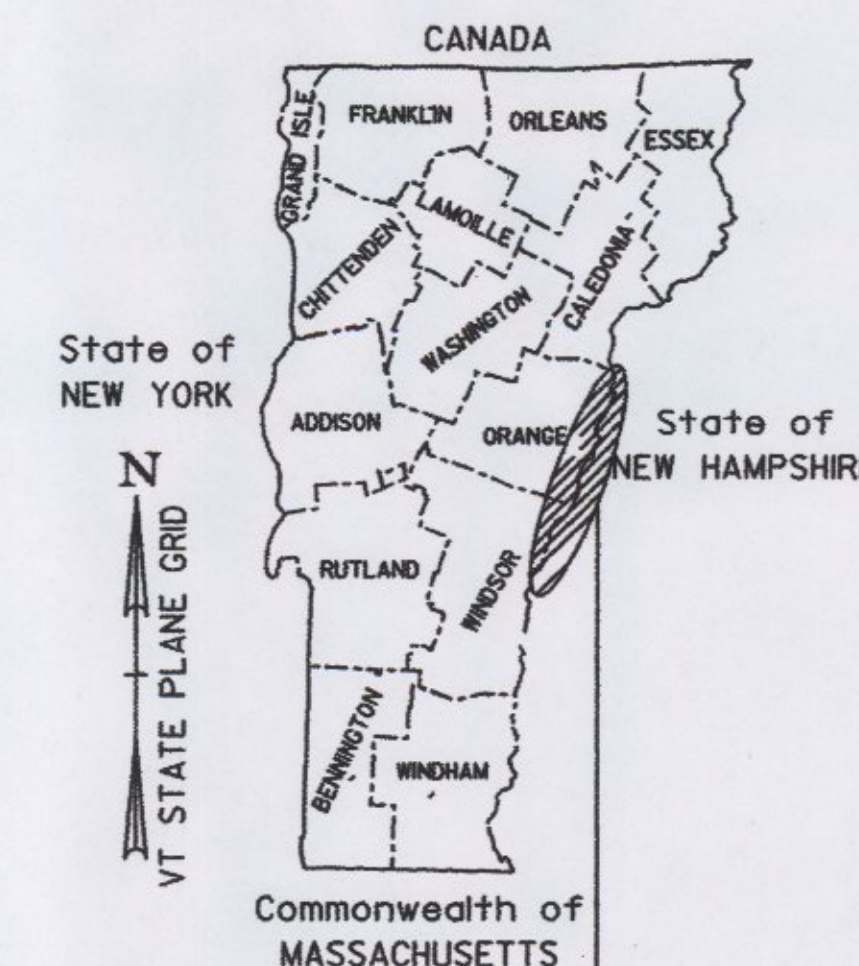
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SEE SHEET 2

STATE OF VERMONT AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT HARTFORD-NEWBURY TOWNS OF HARTFORD-NEWBURY COUNTIES OF WINDSOR & ORANGE

INTERSTATE 91 - NORTHBOUND & SOUTHBOUND - GUARDRAIL



PROJECT LOCATION: THE NORTHBOUND AND SOUTHBOUND INTERSTATE BARRELS BEGINNING AT MM 69.96 AND EXTENDING NORTHERLY 65.983 KM TO MM 110.96, THE NEWBURY/RYEGATE TOWN LINE.

PROJECT DESCRIPTION: GUARDRAIL AND CURB REHABILITATION, REPLACEMENT, AND MODIFICATIONS, AND OTHER RELATED ITEMS.

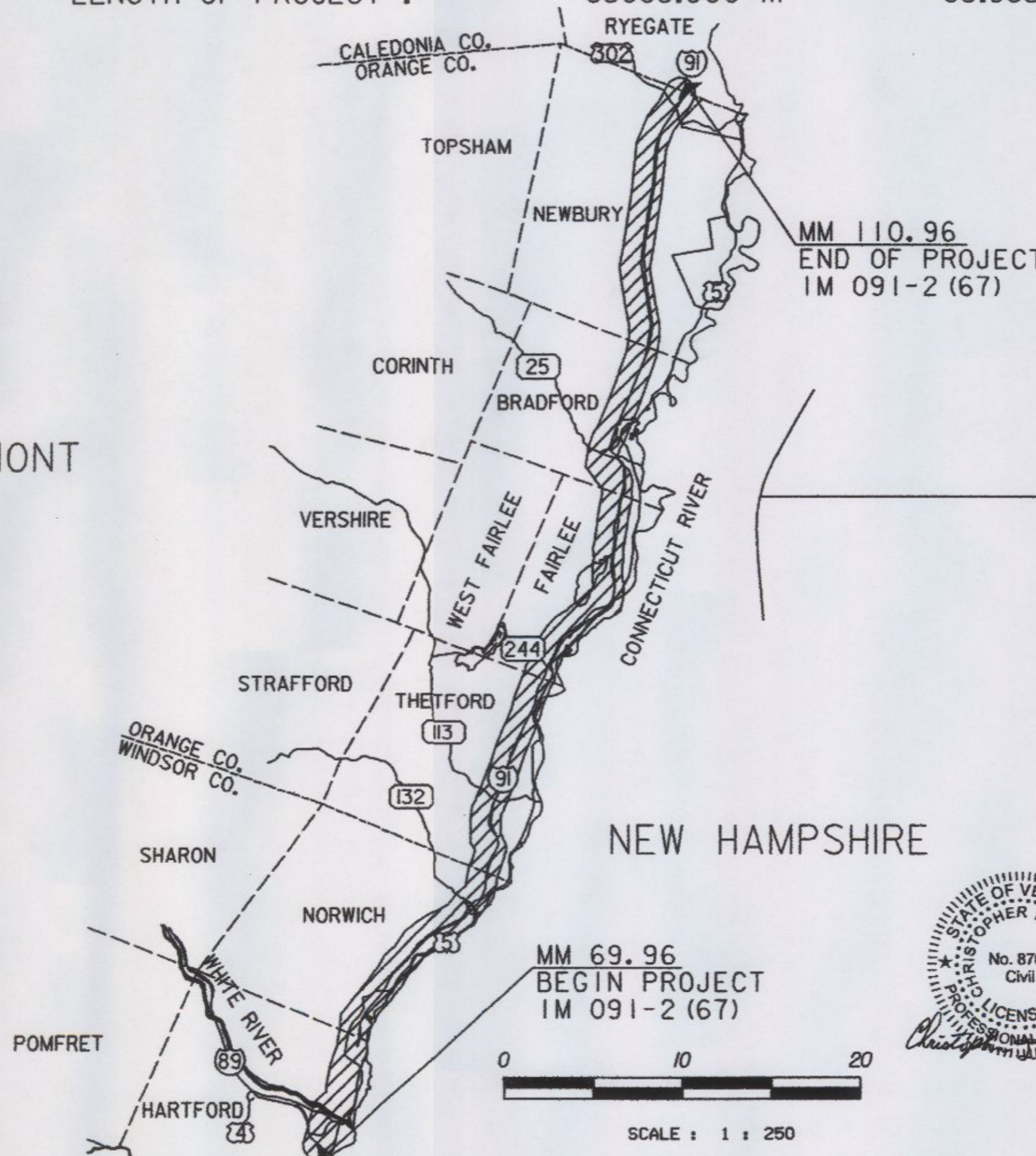
LENGTH OF ROADWAY : 65983.000 m 65.983 km
LENGTH OF PROJECT : 65983.000 m 65.983 km

RECORD PLANS	
CONTRACTOR:	F. R. LAFAYETTE, INC. - ESSEX JUNCTION, VT
RESIDENT ENGINEER:	CARL FIELDER
CONSTRUCTION BEGAN:	APRIL 16, 2007
CONSTRUCTION COMPLETE:	OCTOBER 10, 2007
RECORD PLANS BY:	CARL FIELDER VIA SITE MANAGER
I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.	
BY	<i>Carl Fielder</i> RESIDENT ENGINEER
DATE	10/31/2013
NOTE: Any further information concerning final quantities, amounts or other details relative to this project may be found at Central Files in the electronic archives.	

VERMONT

PROJECT AREA

HARTFORD-NEWBURY
IM 091-2(67)



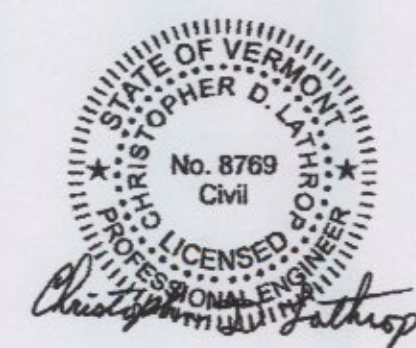
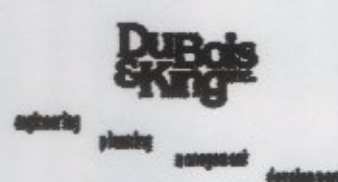
RECORD PLANS WERE CREATED
BASED ON INFORMATION RECORDED
IN SITE MANAGER.

CONVENTIONAL SIGNS

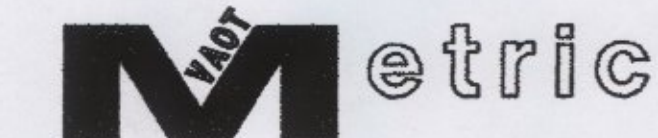
- COUNTY LINE
- TOWN LINE
- LIMITS OF ACCESS
- POINT OF ACCESS
- FENCE LINE
- STONE WALL
- TRAVELED WAY
- GUARD RAIL
- RAILROAD
- SURVEY LINE
- CULVERT
- POWER POLE
- TELEPHONE POLE
- TREES
- CONTROL OF ACCESS
- PROPERTY LINE
- R.O.W. TAKING LINE
- SLOPE RIGHTS
- TOP OF CUT
- TOE OF SLOPE

DATUM

VERTICAL N/A
HORIZONTAL N/A



THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE DIRECTOR OF PROGRAM DEVELOPMENT. CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2001, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JANUARY 4, 2001 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.




DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED <i>Mark D. Riddle</i>	DATE 10-23-09
for DIVISION ADMINISTRATOR	
APPROVED <i>Carl Fielder</i>	DATE 9/28/09
DIRECTOR OF PROGRAM DEVELOPMENT	
PROJECT MANAGER: ROGER L. THOMPSON	
PROJECT HARTFORD - NEWBURY ACIM 091-2(67)	
SHEET 1 OF 32 SHEETS	

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		PROJECT NUMBER: IM 09I-2(67)	DRAWN BY: R.H. BARNES
		FILE NAME: ...\\DGN\z042IN.dgn	CHECKED BY: E.P. DETRICK
		PROJECT LEADER: C.D. LATHROP	SHEET 2 OF 32
		DESIGNED BY: R. H. BARNES	

SUMMARY OF ESTIMATED QUANTITIES

ROADWAY	EROSION CONTROL	FULL C.E. ITEMS	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NUMBER	RND
2875			2875	CM	COMMON EXCAVATION	203.15	89
4325			4325	CM	EARTH BORROW	203.30	167
10550			10550	M	SHOULDER BERM REMOVAL	203.99	EST
150			150	CM	TRENCH EXCAVATION OF EARTH	204.20	EST
67			67	CM	SUBBASE OF DENSE GRADED CRUSHED STONE	301.35	4
					BEGIN OPTION ITEMS		
3800			3800	CM	AGGREGATE SHOULDERS, TRUCK MEASUREMENT	402.11	98
3800			3800	CM	AGGREGATE SHOULDERS, TRUCK MEASUREMENT (MOD. - COLD PLANE GRINDINGS)	402.11	98
					END OPTION ITEMS		
525			525	KG	EMULSIFIED ASPHALT	404.65	26
100			100	M	300 mm CPEP	601.0905	EST
20			20	EA	REHABING D1, CB OR MH CLASS I	604.412	EST
10			10	EA	REHABING D1, CB OR MH CLASS II	604.415	EST
4			4	EA	REHABING D1, CB OR MH CLASS III	604.418	EST
120			120	HR	BULLDOZER RENTAL, TYPE I	608.10	EST
120			120	HR	POWER GRADER RENTAL	608.15	EST
120			120	HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	608.25	EST
640			640	HR	POWER BROOM RENTAL	608.30	EST
400			400	HR	POWER BROOM RENTAL, TYPE II	608.31	EST
120			120	HR	TRUCK RENTAL	608.37	EST
120			120	HR	LOADER RENTAL, TYPE I	608.40	EST

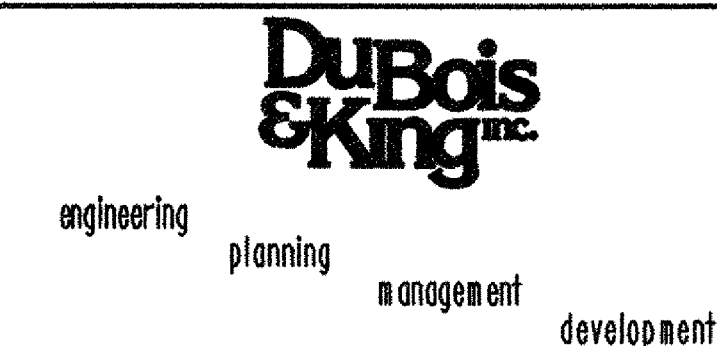
DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		COMMON EXCAVATION
1275	CM	NORTHBOUND
1600	CM	SOUTHBOUND
		EARTH BORROW
2000	CM	NORTHBOUND
2325	CM	SOUTHBOUND
		SHOULDER BERM REMOVAL
7400	M	NORTHBOUND
3150	M	SOUTHBOUND
		SUBBASE OF DENSE GRADED CRUSHED STONE
7	CM	NORTHBOUND
60	CM	SOUTHBOUND
		AGGREGATE SHOULDERS, TRUCK MEASUREMENT
1600	CM	NORTHBOUND
2200	CM	SOUTHBOUND
		AGGREGATE SHOULDERS, TRUCK MEASUREMENT (MOD. - COLD PLANE GRINDINGS)
1600	CM	NORTHBOUND
2200	CM	SOUTHBOUND
		EMULSIFIED ASPHALT
200	KG	NORTHBOUND
325	KG	SOUTHBOUND
		300 mm CPEP
50	M	NORTHBOUND
50	M	SOUTHBOUND

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		REHABING D1, CB OR MH CLASS I
10	EA	NORTHBOUND
10	EA	SOUTHBOUND
		REHABING D1, CB OR MH CLASS II
5	EA	NORTHBOUND
5	EA	SOUTHBOUND
		REHABING D1, CB OR MH CLASS III
2	EA	NORTHBOUND
2	EA	SOUTHBOUND
		BULLDOZER RENTAL, TYPE I
60	HR	NORTHBOUND
60	HR	SOUTHBOUND
		POWER GRADER RENTAL
60	HR	NORTHBOUND
60	HR	SOUTHBOUND
		ALL PURPOSE EXCAVATOR RENTAL, TYPE I
60	HR	NORTHBOUND
60	HR	SOUTHBOUND
		POWER BROOM RENTAL
320	HR	NORTHBOUND
320	HR	SOUTHBOUND
		POWER BROOM RENTAL, TYPE II
200	HR	NORTHBOUND
200	HR	SOUTHBOUND
		TRUCK RENTAL
60	HR	NORTHBOUND
60	HR	SOUTHBOUND
		LOADER RENTAL, TYPE I
60	HR	NORTHBOUND
60	HR	SOUTHBOUND

QUANTITY SHEET NO. 1



PROJECT NAME: HARTFORD - NEWBURY
PROJECT NUMBER: IM 09I-2(67)

FILE NAME: ... \DGN\ZA042050L.dgn PLOT DATE: 10/12/2006
PROJECT LEADER: C.D. LATHROP DRAWN BY: R.H. BARNES
DESIGNED BY: CHECKED BY: E.P. DETRICK
SHEET 3 OF 32

10/12/2006 3:28:34 PM

QUANTITY SHEET



SUMMARY OF ESTIMATED QUANTITIES

ROADWAY	EROSION CONTROL	FULL C.E. ITEMS	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NUMBER	RND
	150		150	CM	STONE FILL, TYPE I	613.10	EST
400			400	T	BITUMINOUS CONCRETE CURB, TYPE B	616.31	28
2000			2000	M	TREATED TIMBER CURB	616.35	EST
1440			1440	M	REMOVING AND RESETTING CURB	616.40	53
2000			2000	M	REMOVAL OF EXISTING CURB	616.41	EST
545			545	T	BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS	616.47	22
440			440	M	CHAIN - LINK FENCE, 1.8 M	620.12	40
144			144	EA	BRACING ASSEMBLY FOR CHAIN - LINK FENCE, 1.8 M	620.21	16
320			320	M	CABLE GUARDRAIL	621.17	22
50900			50900	M	STEEL BEAM GUARDRAIL (GALVANIZED)	621.20	2049
165			165	EA	MANUFACTURED TERMINAL SECTION (FLARED)	621.505	10
4			4	EA	MANUFACTURED TERMINAL SECTION (TANGENT)	621.505	EST
160			160	EA	TRAILING END TERMINAL	621.52	5
2			2	EA	ANCHOR FOR STEEL BEAM RAIL	621.60	EST
7			7	EA	ANCHOR FOR CABLE RAIL	621.65	1
30			30	EA	ANCHOR FOR CABLE RAIL (MOD.)	621.65	EST
190			190	EA	REPLACE GUARDRAIL POST ASSEMBLY	621.76	17
330			330	EA	REPLACE GUARDRAIL BEAM UNIT	621.77	20
370			370	M	ADJUST HEIGHT OF GUARDRAIL	621.79	69
41700			41700	M	REMOVAL AND DISP OF GUARDRAIL	621.80	1647

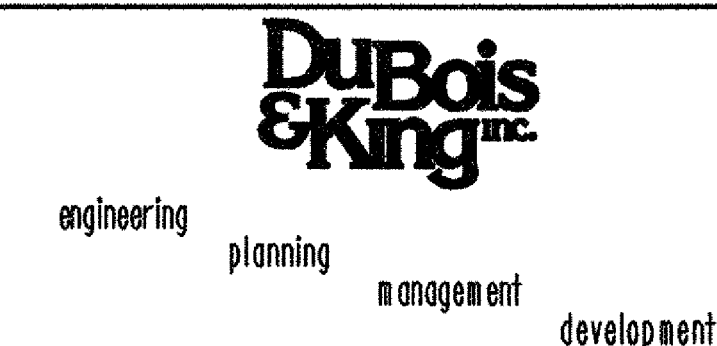
DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		BITUMINOUS CONCRETE CURB, TYPE B
150	T	NORTHBOUND
250	T	SOUTHBOUND
		TREATED TIMBER CURB
1000	M	NORTHBOUND
1000	M	SOUTHBOUND
		REMOVING AND RESETTING CURB
65	M	NORTHBOUND
1375	M	SOUTHBOUND
		REMOVAL OF EXISTING CURB
1000	M	NORTHBOUND
1000	M	SOUTHBOUND
		BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS
200	T	NORTHBOUND
345	T	SOUTHBOUND
		CHAIN - LINK FENCE, 1.8 M
220	M	NORTHBOUND
220	M	SOUTHBOUND
		BRACING ASSEMBLY FOR CHAIN - LINK FENCE, 1.8 M
72	EA	NORTHBOUND
72	EA	SOUTHBOUND
		CABLE GUARDRAIL
80	M	NORTHBOUND
240	M	SOUTHBOUND
		STEEL BEAM GUARDRAIL (GALVANIZED)
21400	M	NORTHBOUND
29500	M	SOUTHBOUND

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		MANUFACTURED TERMINAL SECTION (FLARED)
75	EA	NORTHBOUND
90	EA	SOUTHBOUND
		MANUFACTURED TERMINAL SECTION (TANGENT)
2	EA	NORTHBOUND
2	EA	SOUTHBOUND
		TRAILING END TERMINAL
75	EA	NORTHBOUND
85	EA	SOUTHBOUND
		ANCHOR FOR STEEL BEAM RAIL
1	EA	NORTHBOUND
1	EA	SOUTHBOUND
		ANCHOR FOR CABLE RAIL
2	EA	NORTHBOUND
5	EA	SOUTHBOUND
		ANCHOR FOR CABLE RAIL (MOD.)
15	EA	NORTHBOUND
15	EA	SOUTHBOUND
		REPLACE GUARDRAIL POST ASSEMBLY
120	EA	NORTHBOUND
70	EA	SOUTHBOUND
		REPLACE GUARDRAIL BEAM UNIT
190	EA	NORTHBOUND
140	EA	SOUTHBOUND
		ADJUST HEIGHT OF GUARDRAIL
220	M	NORTHBOUND
150	M	SOUTHBOUND
		REMOVAL AND DISP OF GUARDRAIL
17500	M	NORTHBOUND
24200	M	SOUTHBOUND

QUANTITY SHEET
NO. 2



PROJECT NAME: HARTFORD - NEWBURY
PROJECT NUMBER: IM 09I-2(67)

FILE NAME: ... \DGN\ZA042050L.dgn PLOT DATE: 09/25/2006
PROJECT LEADER: C.D. LATHROP DRAWN BY: R.H. BARNES
DESIGNED BY: CHECKED BY: E.P. DETRICK
SHEET 4 OF 32

GENERAL NOTES

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2001, AND ITS LATEST REVISIONS.
2. GUARDRAIL DETAIL SHEETS ARE PROVIDED AS A GENERAL GUIDE TO GUARDRAIL IMPROVEMENTS. SPECIFIC LOCATIONS OF CONSTRUCTION AND TREATMENT METHODS SHALL BE FIELD LOCATED AND APPROVED BY THE ENGINEER.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MINIMIZE DAMAGE TO THE EXISTING PAVEMENT AND PAVEMENT MARKINGS. THE CONTRACTOR, AT NO ADDITIONAL COMPENSATION, SHALL REPAIR ALL PAVEMENT AND PAVEMENT MARKINGS DAMAGED DURING CONSTRUCTION.
4. AS DIRECTED BY THE ENGINEER, DRAINAGE SWALES, VERTICAL GRANITE CURBS, AND GRANITE SLOPE EDGING SHALL BE SWEEPED AND THE COLLECTED DEBRIS DISPOSED OF BY THE CONTRACTOR. PAYMENT SHALL BE UNDER ITEM 608.31, "POWER BROOM RENTAL, TYPE II."
5. ITEM 203.99 "SHOULDER BERM REMOVAL", HAS BEEN INCLUDED AS AN ESTIMATED QUANTITY TO BE USED IN NECESSARY LOCATIONS, OR AS DIRECTED BY THE ENGINEER. THE PLAN QUANTITY REPRESENTS BERM REMOVAL FOR 75% OF THE RETAINED STEEL BEAM GUARDRAIL LENGTH. ITEM 203.99 WILL BE PAID ONLY IN RETAINED GUARDRAIL AREAS AS DIRECTED BY THE ENGINEER

STEEL BEAM GUARDRAIL NOTES

1. WHERE GUARDRAIL BEAM UNITS ARE DAMAGED AND GUARDRAIL POSTS AND OFFSET BLOCKS ARE NOT DAMAGED, THE GUARDRAIL BEAM UNITS SHALL BE REMOVED AND DISPOSED OF. NEW GUARDRAIL BEAM UNITS SHALL BE ATTACHED TO THE EXISTING POSTS AND OFFSET BLOCKS. THIS WORK SHALL BE PAID FOR UNDER ITEM 621.77, "REPLACE GUARDRAIL BEAM UNIT."
2. WHERE GUARDRAIL POSTS AND / OR OFFSET BLOCKS ARE DAMAGED, THE GUARDRAIL BEAM UNITS, POSTS, OFFSET BLOCKS AND CURBING SHALL BE REMOVED AND DISPOSED OF. NEW STEEL POSTS, SYNTHETIC OFFSET BLOCKS AND STEEL BEAM GUARDRAIL SHALL BE INSTALLED. THE OFFSET BLOCK CHOSEN SHALL BE ONE OF THE OFFSET BLOCKS APPEARING ON THE APPROVED PRODUCTS LIST ON FILE WITH THE AGENCY'S MATERIALS AND RESEARCH SECTION. REMOVAL AND DISPOSAL SHALL BE PAID FOR UNDER ITEM 621.80, "REMOVAL AND DISPOSAL OF GUARDRAIL." INSTALLATION OF NEW GUARDRAIL, POSTS AND OFFSET BLOCKS SHALL BE PAID FOR UNDER ITEM 621.20, "STEEL BEAM GUARDRAIL (GALVANIZED)." IF CURBING IS NEEDED, NEW 4" BITUMINOUS CONCRETE CURB SHALL BE PAID FOR UNDER ITEM 616.31, "BITUMINOUS CONCRETE CURB, TYPE B."
3. ALL SECTIONS OF GUARDRAIL SHALL BE FITTED WITH NEW GUARDRAIL DELINEATORS IN ACCORDANCE WITH VTRANS STANDARD G-1 AT 7.6 METER INTERVALS (EACH FIFTH POST). DELINEATORS PLACED ON EXISTING GUARDRAIL SHALL BE PAID FOR UNDER ITEM 676.15, "REMOVE AND REPLACE REFLECTOR UNITS". DELINEATORS PLACED ON NEW GUARDRAIL SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE GUARDRAIL PAY ITEM.

GUARDRAIL TERMINAL SECTION NOTES

1. WHERE CALLED FOR IN THE PLANS OR AS DIRECTED BY THE ENGINEER A MANUFACTURED TERMINAL SECTION (MTS) SHALL BE INSTALLED ON THE LEADING END OF GUARDRAIL. THE MTS SHALL BE IN ACCORDANCE WITH APPLICABLE VTRANS SPECIFICATIONS. PAYMENT FOR THIS WORK SHALL BE MADE UNDER ITEM 621.505, "MANUFACTURED TERMINAL SECTION" OF THE TYPE SPECIFIED.
2. WHERE AN MTS IS TO BE CONSTRUCTED, THE AREA SHALL BE GRADED IN ACCORDANCE WITH VTRANS STANDARD G-19. ALL EXISTING TOPSOIL SHALL BE STRIPPED FROM THE EXISTING SLOPE IN THE AREA OF A PROPOSED MTS AND STOCKPILED. A PLATFORM FOR THE MTS SHALL BE CONSTRUCTED AND THE SLOPE GRADED USING EARTH BORROW. THE PLATFORM SHALL BE TOPPED WITH 150 mm OF AGGREGATE SHOULDERS. ALL EXPOSED SIDE SLOPES SHALL BE TOPSOILED USING STOCKPILED TOPSOIL, SEEDED, FERTILIZED, AND MULCHED WITHIN 48 HOURS. PAYMENT FOR EXCAVATION OF THE TOPSOIL SHALL BE PAID UNDER ITEM 203.15 "COMMON EXCAVATION." PAYMENT FOR EARTH BORROW SHALL BE PAID UNDER ITEM 203.30 "EARTH BORROW." PAYMENT FOR AGGREGATE SHOULDERS SHALL BE MADE UNDER ITEM 402.11, "AGGREGATE SHOULDERS, TRUCK MEASUREMENT (MOD. - COLD PLANE GRINDINGS) OR 402.11, "AGGREGATE SHOULDERS, TRUCK MEASUREMENT". PLACEMENT OF THE STOCKPILED TOPSOIL SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED INCIDENTAL TO ITEM 203.15, "COMMON EXCAVATION." SEED, FERTILIZER AND MULCH SHALL BE PAID FOR UNDER APPROPRIATE CONTRACT ITEMS.
3. WHERE CALLED FOR IN THE PLANS OR AS DIRECTED BY THE ENGINEER A TRAILING END TERMINAL SHALL BE INSTALLED ON THE TRAILING END OF GUARDRAIL. THE TRAILING END TERMINAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH APPLICABLE VTRANS STANDARDS AND SPECIFICATIONS. PAYMENT FOR THIS WORK SHALL BE PAID UNDER ITEM 621.52, "TRAILING END TERMINAL."

BITUMINOUS CONCRETE CURB, TYPE B AND BITUMINOUS GUTTERS NOTES

1. WHERE NEW BITUMINOUS CONCRETE CURBING IS TO BE PLACED, THE CONTRACTOR SHALL SAWCUT EXISTING BITUMINOUS CONCRETE PAVEMENT 300mm FROM THE PROPOSED FACE OF GUARDRAIL POSTS. THE EXISTING ASPHALT FILLET AND BITUMINOUS CONCRETE PAVEMENT SHALL BE REMOVED TO THE NEAT LINE OF THE SAW CUT. WHERE GUARDRAIL IS TO BE REMOVED PAYMENT FOR THIS WORK SHALL BE CONSIDERED INCIDENTAL TO ITEM 621.80, "REMOVAL AND DISPOSAL OF GUARDRAIL".
2. WHERE NEW STEEL BEAM GUARDRAIL AND BITUMINOUS CONCRETE CURB ARE INSTALLED ADJACENT TO AN EXISTING DROP INLET (DI) THE CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE OF STORM WATER INTO THE EXISTING DI. AT THE DIRECTION OF THE ENGINEER, THE CONTRACTOR SHALL MOVE OR MODIFY EXISTING DI'S. THIS WORK SHALL BE PAID UNDER ITEMS 604.412, "REHABILITATING DI, CB OR MH CLASS I", ITEM 604.415, "REHABILITATING DI, CB OR MH CLASS II" AND ITEM 604.418, "REHABILITATING DI, CB OR MH CLASS III".
3. PREPARATION OF EXISTING SUBBASE AND REPLACEMENT OF BITUMINOUS CONCRETE PAVEMENT TO THE NEAT LINE OF THE SAW CUT SHALL BE PAID FOR UNDER ITEM 616.47, "BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS". ALL BITUMINOUS CONCRETE CURB SHALL BE BACKED WITH ITEM 402.11, "AGGREGATE SHOULDERS, TRUCK MEASUREMENT (MOD. - COLD PLANE GRINDINGS)" OR 402.11, "AGGREGATE SHOULDERS, TRUCK MEASUREMENT".
4. ALL OTHER WORK DEEMED NECESSARY TO INSTALL NEW BITUMINOUS CONCRETE CURBS SHALL BE CONSIDERED INCIDENTAL TO ITEM 616.31, "BITUMINOUS CONCRETE CURB, TYPE B".
5. WHERE BITUMINOUS CONCRETE GUTTERS ARE ENCOUNTERED, THEY SHALL BE EXCAVATED 200 mm DEEP, 150 mm OF SUBBASE OF DENSE GRADED CRUSHED STONE SHALL BE PLACED AND SHAPED, AND THE GUTTERS SHALL BE PAVED WITH 50 mm OF BITUMINOUS CONCRETE PAVEMENT. EXCAVATION SHALL BE PAID FOR UNDER ITEM 203.15, "COMMON EXCAVATION". SUBBASE OF DENSE GRADED CRUSHED STONE SHALL BE PAID FOR UNDER ITEM 301.35, "SUBBASE OF DENSE GRADED CRUSHED STONE". PAVEMENT SHALL MEET SPECIFICATION FOR MEDIUM DUTY BITUMINOUS CONCRETE PAVEMENT AND SHALL BE PAID FOR UNDER ITEM 616.47, "BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS".

TREATED TIMBER CURB NOTES

1. ALL TREATED TIMBER CURB THAT IS NOT CALLED FOR REMOVAL SHALL BE JOINTLY INSPECTED BY THE CONTRACTOR AND THE ENGINEER. AT THE DISCRETION OF THE ENGINEER, DEFICIENT AREAS OF TREATED TIMBER CURB SHALL BE REMOVED AND REPLACED. TREATED TIMBER CURB SHALL BE REMOVED BY SAWCUTTING THE PAVEMENT 300 mm FROM THE FACE OF POST. THE SAWCUT PAVEMENT, TIMBER CURB AND CONNECTION BRACKETS SHALL BE REMOVED AS SHOWN IN TREATED TIMBER CURB REMOVAL DETAIL ON SHEET 7. PAYMENT FOR THIS WORK SHALL BE MADE UNDER ITEM 616.41, "REMOVAL OF EXISTING CURB".
2. INSTALLATION OF NEW TREATED TIMBER CURB AND BITUMINOUS CONCRETE FILLET SHALL BE PAID FOR UNDER ITEM 616.35, "TREATED TIMBER CURB". AGGREGATE SHOULDER MATERIAL SHALL BE PLACED BEHIND THE NEW TREATED TIMBER CURB. AGGREGATE SHOULDERS SHALL BE PAID FOR UNDER ITEM 402.11, "AGGREGATE SHOULDERS, TRUCK MEASUREMENT" OR ITEM 402.11, "AGGREGATE SHOULDERS, TRUCK MEASUREMENT (MOD. - COLD PLANE GRINDINGS)". THE WORK SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 616 OF THE SPECIFICATIONS AND IN ACCORDANCE WITH THE DETAIL FOR TREATED TIMBER CURB INSTALLATION ON SHEET 7.

CABLE GUARDRAIL NOTES

1. WHERE CALLED FOR IN THE PLANS OR AS DIRECTED BY THE ENGINEER, DAMAGED CABLE GUARDRAIL, POSTS AND TREATED TIMBER CURB SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. PAYMENT FOR REMOVAL AND DISPOSAL OF CABLE GUARDRAIL, POSTS AND CURB SHALL BE MADE UNDER ITEM 621.80, "REMOVAL AND DISPOSAL OF GUARDRAIL".
2. WHERE CALLED FOR IN THE PLANS OR AS DIRECTED BY THE ENGINEER, CABLE GUARDRAIL SHALL BE REPAIRED. REPAIR OF CABLE GUARDRAIL SHALL INCLUDE REPLACEMENT OF DAMAGED OR DEFORMED GUARDRAIL POSTS, REPLACEMENT OF DAMAGED OR MISSING J-BOLTS ON EXISTING REMAINING GUARDRAIL POSTS, AND RETENSIONING OF CABLE RAIL. REMOVAL AND DISPOSAL OF DAMAGED GUARDRAIL POSTS AND SUPPLYING AND INSTALLING NEW GUARDRAIL POSTS SHALL BE PAID FOR UNDER ITEM 621.76, "REPLACE GUARDRAIL POST ASSEMBLY". RETENSIONING CABLE GUARDRAIL SHALL BE PAID FOR UNDER ITEM 621.65, "ANCHOR FOR CABLE RAIL (MOD.)". SUPPLYING AND INSTALLING NEW J-BOLTS SHALL BE CONSIDERED INCIDENTAL TO RETENSIONING CABLE RAIL.
3. ALL CABLE GUARDRAIL THAT HAS BEEN REPAIRED SHALL RECEIVE NEW REFLECTIVE SHEETING ON EXISTING REFLECTOR UNITS. THE EXISTING REFLECTOR UNIT SHALL BE CLEANED FREE OF DEBRIS, DRIED, AND NEW SELF ADHESIVE SHEETING SHALL BE APPLIED OVER THE TOP OF THE EXISTING REFLECTOR UNIT. THE SHEETING SHALL BE TYPE VII, VII, OR IX FOR MEDIAN RAIL AND TYPE III OR GREATER FOR OUTSIDE RAIL. THE CLEANING OF EXISTING REFLECTOR UNITS AND THE SUPPLYING AND INSTALLATION OF NEW SHEETING SHALL BE PAID FOR UNDER ITEM 676.15, "REMOVE AND REPLACE REFLECTOR UNITS (MOD.)". IF THE EXISTING REFLECTOR UNIT IS MISSING, A NEW REFLECTOR UNIT SHALL BE INSTALLED UNDER ITEM 676.15, "REMOVE AND REPLACE REFLECTOR UNITS".

REMOVING AND RESETTING CURB

1. WHERE CALLED FOR IN THE PLANS "REMOVING AND RESETTING CURB" WILL MEAN "GRANITE SLOPE EDGING" OR "VERTICAL GRANITE CURB". THIS WORK SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 616 OF THE SPECIFICATIONS.
2. THE CURBING TO BE REMOVED SHALL BE BY SAW CUTTING (NOT WHEEL CUTTING) THE PAVEMENT, 600 MM MEASURED HORIZONTALLY FROM THE TOP OF THE CURB TO THE ROADWAY, 50 MM IN DEPTH.
3. ALL WORK AND MATERIALS TO REMOVE AND RESET CURB INCLUDING SAW CUTTING, EXCAVATION, SUBBASE MATERIAL, AND PLACING NEW PAVEMENT WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED INCIDENTAL TO ITEM 616.40 "REMOVING AND RESETTING CURB".

SEEDING FORMULA RURAL AREAS

% MASS	kg/ha	NAME	PUR %	GERM %
37.5	26.0	CREeping RED FESCUE	98	85
37.5	26.0	TALL FESCUE	95	90
5.0	4.0	RED TOP	95	90
15.0	10.0	BIRDSFOOT TREFOIL	98	85
5.0	4.0	ANNUAL RYE GRASS	95	85
100.0	70.0			

GENERAL NOTES

SEED MIXTURE: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY MASS AND SHALL BE FREE OF ALL NOXIOUS SEED.

SEED: TO BE APPLIED PER SEEDING FORMULAS OR AS DIRECTED BY THE ENGINEER.

FERTILIZER: FORMULA 10-20-10, TO BE USED WITH SEED, APPLIED AT THE RATE OF 560 kg/ha. (HYDRO SEEDERS MAY USE 19-19-19 FORMULA).

AGRICULTURAL LIMESTONE: TO BE APPLIED AT THE RATE OF 4.5 Ton/ha, OR AS DIRECTED BY THE ENGINEER.

HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 4.5 Ton/ha, OR AS DIRECTED BY THE ENGINEER.

TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

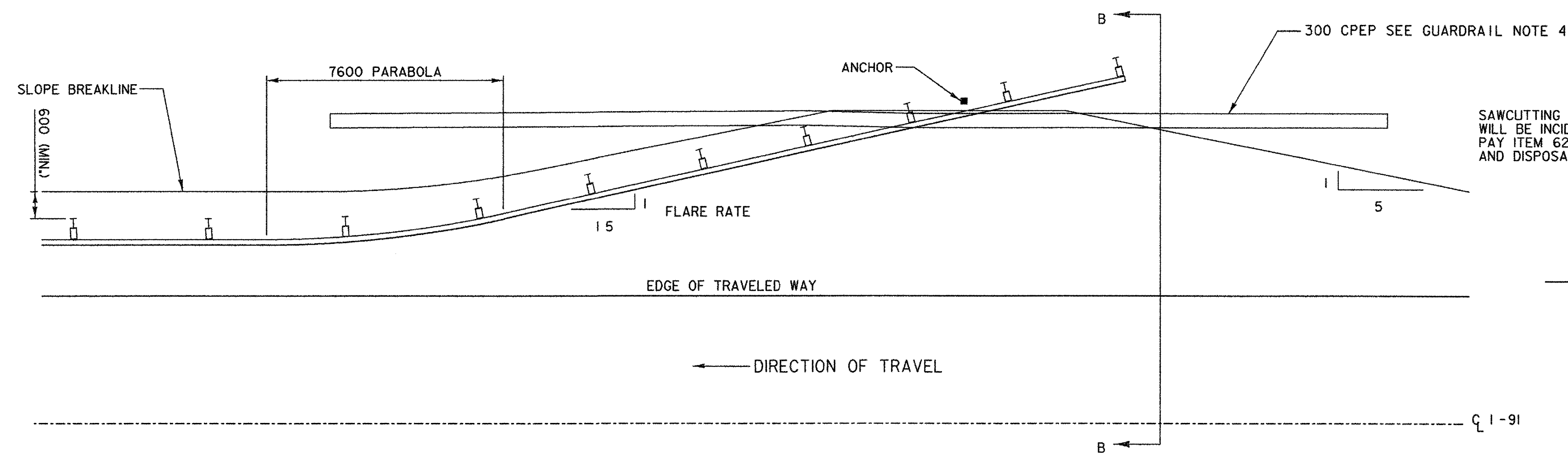
PERFORMANCE-GRADED ASPHALT BINDER

1. ALL BITUMINOUS MATERIAL USED ON THIS PROJECT SHALL BE PG 58-28.

REVISED SHEET 11/14/06

GENERAL NOTES		PROJECT NAME: HARTFORD - NEWBURY
		PROJECT NUMBER: IM 091-2(67)
		FILE NAME: ... \DGN\za042GN01.dgn
		PLOT DATE: 10/12/2006
		PROJECT LEADER: C.D. LATHROP
		DRAWN BY: A.P. GUYETTE
		DESIGNED BY: A.P. GUYETTE
		CHECKED BY: E.P. DETRICK
		SHEET 6 OF 32

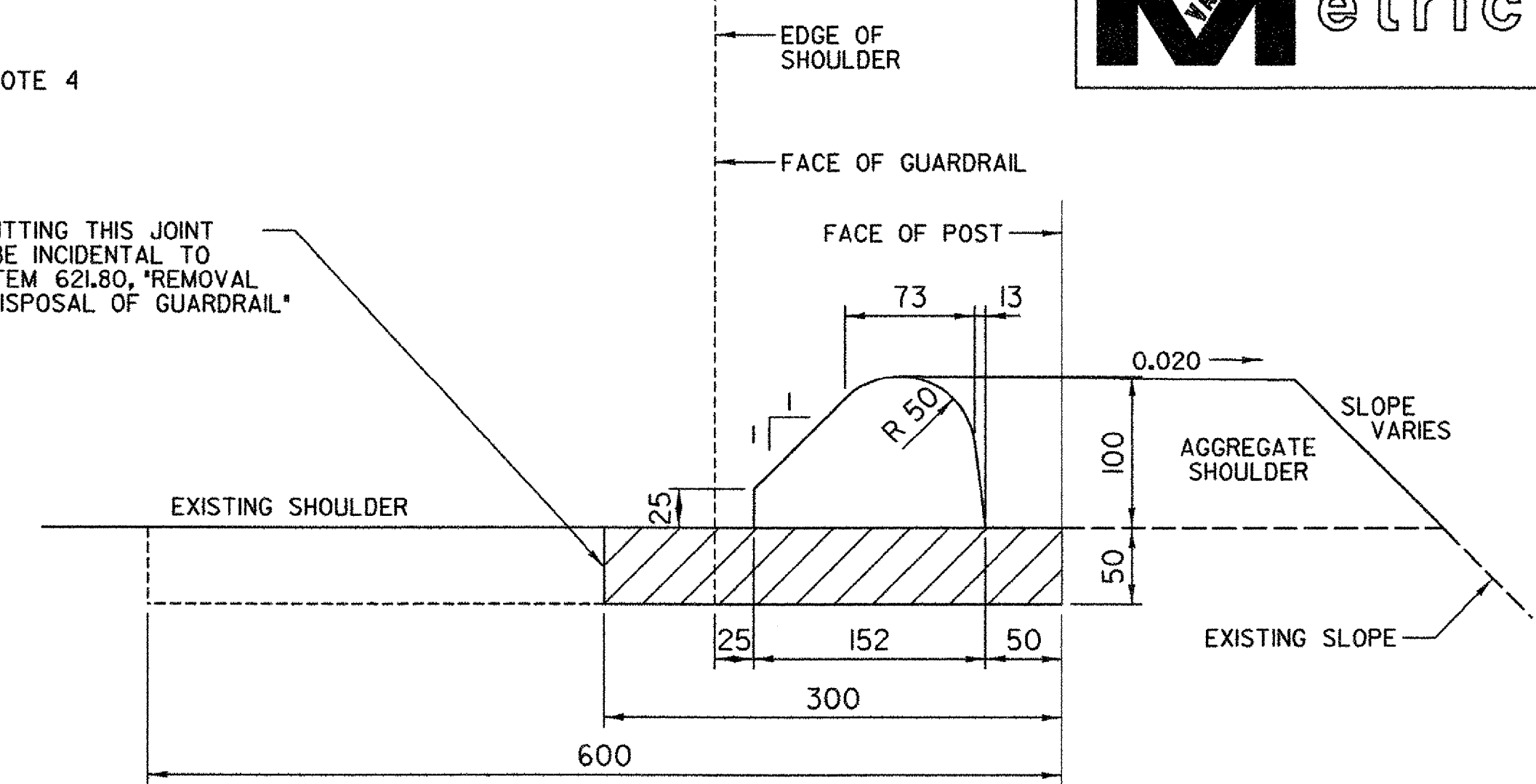
10/12/2006 04:57:42



DETAIL FOR BURIED GUARDRAIL ENDS INTO BACKSLOPE WITH RUBRAIL

NOT TO SCALE

SAWCUTTING THIS JOINT WILL BE INCIDENTAL TO PAY ITEM 621.80, "REMOVAL AND DISPOSAL OF GUARDRAIL"

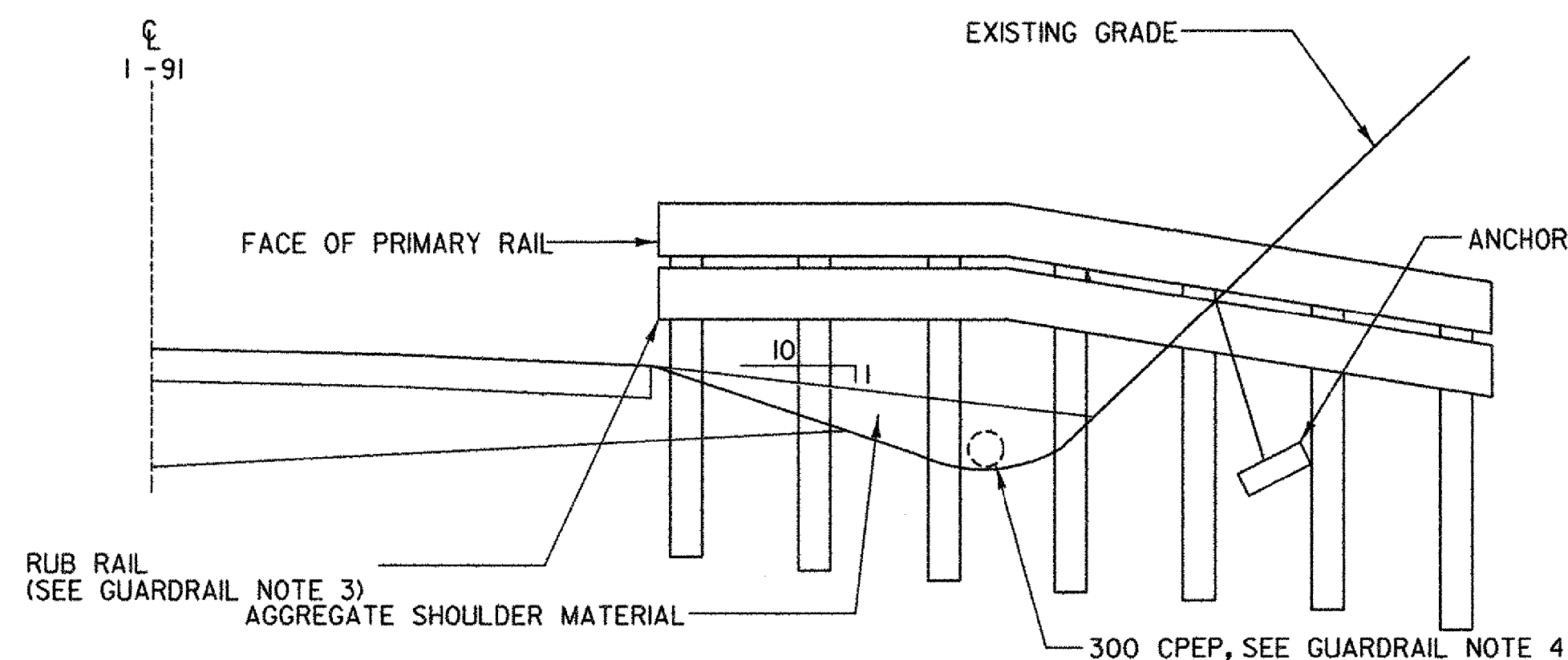


BITUMINOUS CONCRETE CURB DETAIL TYPE B

NOT TO SCALE

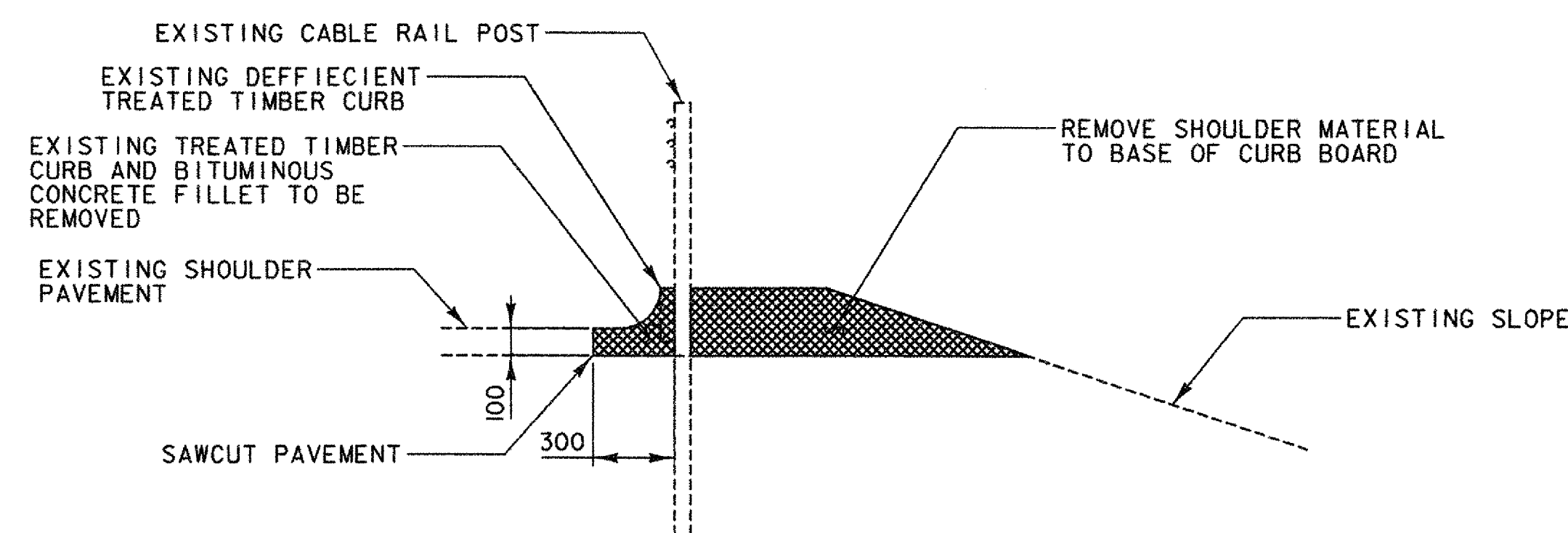
BITUMINOUS CURB NOTES:

1. TO BE USED FOR REPLACEMENT OF TREATED TIMBER CURB WITH BITUMINOUS CONCRETE CURB, TYPE B WITHIN THE LIMITS OF THE PROJECT. WHERE GUARDRAIL IS REPLACED, ALL TREATED TIMBER CURB SHALL BE REMOVED AND REPLACED WITH BITUMINOUS CONCRETE CURB, TYPE B AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
2. THE PREPARATION OF BED, PLACING AND SEALING OF BITUMINOUS CONCRETE CURB SHALL BE IN CONFORMANCE WITH SECTION 616 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.
3. APPROXIMATE WEIGHT OF CURB = 27.14 KG/METER



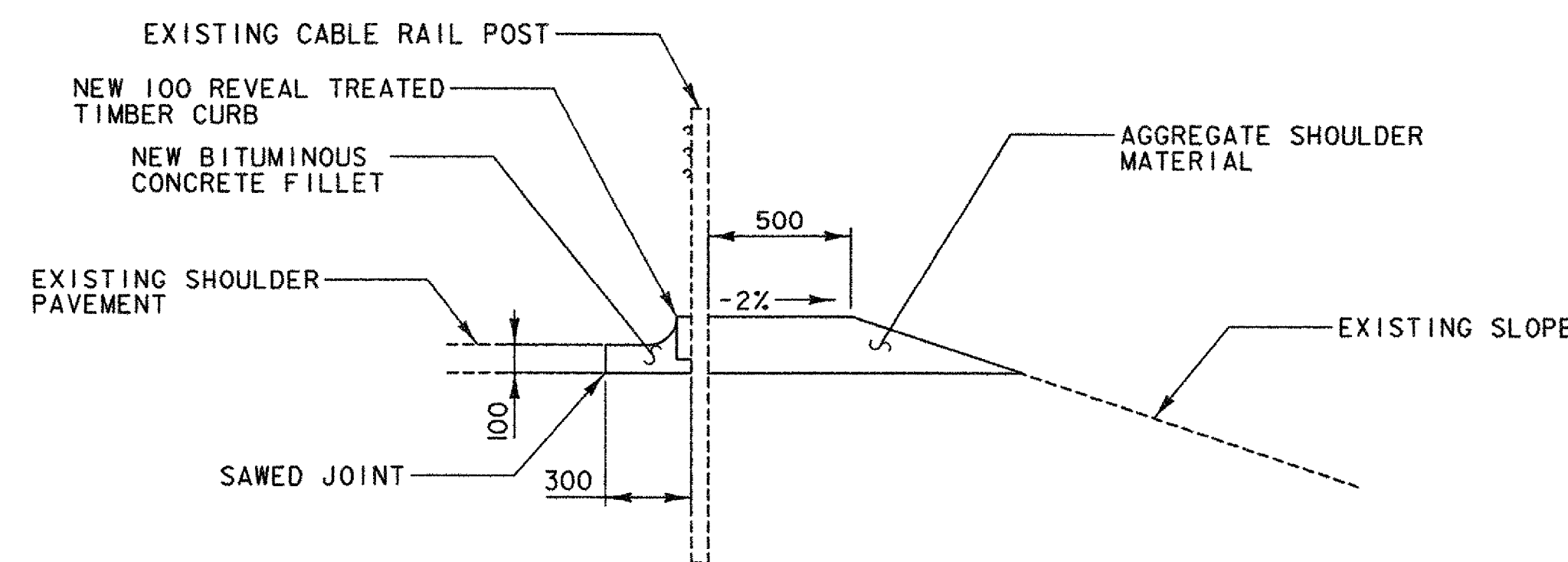
SECTION B-B

NOT TO SCALE



TREATED TIMBER CURB REMOVAL

NOT TO SCALE



TREATED TIMBER CURB INSTALLATION

NOT TO SCALE

GUARDRAIL NOTES:

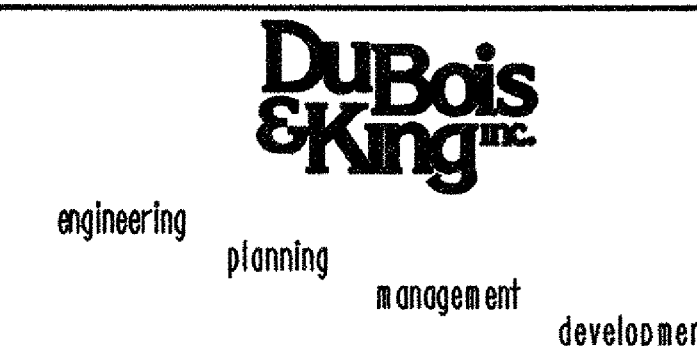
1. BURIED GUARDRAIL END DETAIL PROVIDED TO BE USED AT THE DISCRETION OF THE ENGINEER.
2. THE ELEVATION OF THE PRIMARY RAIL SHALL REMAIN CONSTANT UNTIL RAIL CROSSES LOWEST POINT OF DITCH BOTTOM.
3. ADDITION OF RUB RAIL IS REQUIRED WHEN VERTICAL CLEARANCE BENEATH PRIMARY RAIL EXCEEDS 300 mm.
4. INSTALL 300 mm DIA. CPEP AS DIRECTED BY THE ENGINEER. 300mm CPEP SHALL BE PAID WITH PAY ITEM 601.0905, "300 mm CPEP".
5. EXCAVATION NEEDED FOR THE INSTALLATION OF BURIED END TREATMENTS SHALL BE PAID FOR UNDER ITEM 203.15, "COMMON EXCAVATION".
6. THE USE OF A BURIED END TREATMENT SHALL INCORPORATE AN ANCHOR AS SHOWN IN THE DETAIL. ALL MATERIALS AND WORK ASSOCIATED WITH INSTALLATION OF THE ANCHOR SHALL BE PAID FOR UNDER ITEM 621.60, "ANCHOR FOR STEEL BEAM RAIL".
7. WHERE RUB RAIL IS NECESSARY, IT SHALL BE PAID FOR UNDER ITEM 621.20, "STEEL BEAM GUARDRAIL (GALVANIZED)" AT A FACTOR OF 1.4.

TREATED TIMBER CURB NOTES:

1. WHERE EXISTING GUARDRAIL POSTS ARE TO REMAIN AND WHERE TREATED TIMBER CURB IS TO BE REMOVED AND REPLACED, IN PART OR IN WHOLE, WITH NEW TREATED TIMBER CURB, THE SAWED JOINT SHALL BE 100 mm DEEP. REMOVAL OF THE CURB AND BITUMINOUS CONCRETE FILLET SHALL BE PAID FOR UNDER ITEM 616.41, "REMOVAL OF EXISTING CURB". THE REMOVAL SHALL BE AS SHOWN IN "TREATED TIMBER CURB REMOVAL" DETAIL.
2. INSTALLATION OF NEW TREATED TIMBER CURB SHALL BE AS SHOWN IN THE "TREATED TIMBER CURB INSTALLATION" DETAIL. INSTALLATION OF THE NEW TREATED TIMBER CURB SHALL BE PAID FOR UNDER ITEM 616.35, "TREATED TIMBER CURB". THE NEW BITUMINOUS CONCRETE FILLET SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE INSTALLATION OF THE NEW TREATED TIMBER CURB. AGGREGATE SHOULDER MATERIAL SHALL BE PLACED BEHIND NEW TREATED TIMBER CURB. PAYMENT FOR AGGREGATE SHOULDER MATERIAL SHALL BE MADE UNDER ITEM 402.11, "AGGREGATE SHOULDERS, TRUCK MEASUREMENT" OR ITEM 402.11, "AGGREGATE SHOULDERS, TRUCK MEASUREMENT (MOD. - COLD PLANE GRINDINGS)".

NOTE: ALL DIMENSIONS IN MILLIMETERS (mm), EXCEPT WHERE NOTED.

BURIED GUARDRAIL ENDS AND CURB DETAILS



PROJECT NAME: HARTFORD - NEWBURY
PROJECT NUMBER: IM 091-2(67)

FILE NAME: ...\\DGN\ZA042DT01.dgn
PROJECT LEADER: C.D. LATHROP
DESIGNED BY: C.D. LATHROP
PLOT DATE: 9/27/2006
DRAWN BY: R. H. BARNES
CHECKED BY: E. P. DETRICK
SHEET 7 OF 32

NORTHBOUND ITEM DETAIL SUMMARY SHEET FOR HARTFORD-NEWBURY IM 091 - 2(67)



MILE MARKER	MILE MARKER	POS.	EXISTING GUARDRAIL (M)		621.77 REPLACE GUARDRAIL BEAM UNIT EA	621.76 REPLACE GUARDRAIL POST ASSEMBLY EA	621.79 ADJUST HEIGHT OF GUARDRAIL M	621.80 REMOVAL AND DISPOSAL M	621.20 STEEL BEAM GUARDRAIL (GALV.) M	621.17 CABLE GUARDRAIL M	621.50 MTS (FLARED) EA	621.65 ANCHOR FOR CABLE RAIL EA	621.65 ANCHOR FOR CABLE RAIL (MOD) EA	621.52 TRAILING END TERMINAL EA	616.40 R & R CURB M	616.31 BIT. CONCRETE CURB, TYPE B T	616.47 B. C. GUTTER & TRAFFIC ISLANDS TON	402.11 AGGREGATE SHOULDERS, TRUCK CM	301.35 SUBBASE OF D. G. C. S. CM	203.15 COMMON EXCAVATION CM	203.30 EARTH BORROW CM	620.12 CHAIN LINK FENCE 1.8M M	620.21 BRACING ASSEMBLY CHAIN LINK 1.8M EA	REMARKS		
			STEEL BEAM	CABLE																						
69.96	70.06	OUT	175				175	-160-			1														REPAIR ERODED AREAS	
69.96	69.98	MED	27				27	137.16			1									15		17	27			EXTENDED SOUTH 54M
INTERCHANGE 11																										
RAMP D																										
0+021	0+120	RT													60											
70.11	70.14	OUT	46								1															RETAIN EXISTING GUARDRAIL
70.11	70.14	MED	53								1															RETAIN EXISTING GUARDRAIL
70.20																										
70.21	70.33	OUT	190		4	10																				REPAIR EXISTING GUARDRAIL, REPAIR ERODED AREAS
70.21	70.22	MED																								RETAIN EXISTING ALUMINUM APPROACH RAIL
70.58	70.72	OUT	220				220	-205-			1			1						10		12	27			REPLACE EXISTING GUARDRAIL
70.95	71.03	OUT						209.55																		BRIDGE 44N
	71.01	MED						91.44			1															
	71.09	MED						83.82			1															
71.11	71.48	OUT	490		48	15	19	-129-						2						15		10				EXTEND SOUTH 114M TO CONNECT TO EXISTING. REPLACE TRAILING END TERMINAL
INTERCHANGE 12																										
RAMP A																										
0+254	0+417	RT	163		10	7	20	11			1															REPLACE LEADING TERMINAL SECTION WITH MTS
RAMP C																										
0+006	0+376	RT	318		7	6	50	23	-115-					1						13		8				CONNECT EXISTING RAMP RUNS
71.77	71.86	OUT	133																							RETAIN EXISTING GUARDRAIL, REPAIR ERODED AREAS
71.84	71.88	MED	45																							RETAIN EXISTING GUARDRAIL, REPAIR ERODED AREAS
71.90	71.91	OUT																								RETAIN EXISTING GUARDRAIL, REPAIR ERODED AREAS
71.91	71.94	MED	53																							RETAIN EXISTING GUARDRAIL, REPAIR ERODED AREAS
72.01																										
72.32	72.35	MED	52				52	-130-			1			1												SEE SHEET #31 FOR DETAIL. INSTALL GUARDRAIL BEFORE REMOVING PIER RING
72.46								129.54																		BRIDGE 46, OVER I-91 (TH 33)
72.60	72.72	OUT	198		7	3	50	19	4		1									0.60	10	1	12	27		CONSTRUCT 5M GUTTER
72.79	72.97	OUT	285				285	270			1										6.34	8.50	22			REPLACE EXISTING GUARDRAIL
SHEET 8 TOTAL																										
			2448	0	76	41	120	831	1079	0	7	0	0	8	60	6.34	9.10	136	1	118	189	0	0			

NORTHBOUND ITEM DETAIL SHEET NO. 1	 engineering planning management development	PROJECT NAME: HARTFORD - NEWBURY PROJECT NUMBER: IM 091-2(67)	PLOT DATE: 10/12/2006 DRAWN BY: R.H. BARNES
		FILE NAME: ... \DGN\ZA042ID01.dgn PROJECT LEADER: C.D. LATHROP DESIGNED BY: C.D. LATHROP	CHECKED BY: E.P. DETRICK SHEET 8 OF 32

10/12/2006 10:12:00 AM C:\DGN\ZA042ID01.dgn

NORTHBOUND ITEM DETAIL SUMMARY SHEET FOR HARTFORD-NEWBURY IM 091 - 2(67)



MILE MARKER	MILE MARKER	POS.	EXISTING GUARDRAIL (M)		621.77 REPLACE GUARDRAIL BEAM UNIT EA	621.76 REPLACE GUARDRAIL POST ASSEMBLY EA	621.79 ADJUST HEIGHT OF GUARDRAIL M	621.80 REMOVAL AND DISPOSAL M	621.20 STEEL BEAM GUARDRAIL (GALV.) M	621.17 CABLE GUARDRAIL M	621.50 MTS (FLARED) EA	621.65 ANCHOR FOR CABLE RAIL EA	621.65 ANCHOR FOR CABLE RAIL (MOD) EA	621.52 TRAILING END TERMINAL EA	616.40 R & R CURB M	616.31 BIT. CONCRETE CURB, TYPE B T	616.47 B. C. GUTTER & TRAFFIC ISLANDS TON	402.11 AGGREGATE SHOULDERS, TRUCK CM	301.35 SUBBASE OF D. G. C. S. CM	203.15 COMMON EXCAVATION CM	203.30 EARTH BORROW CM	620.12 CHAIN LINK FENCE 1.8M M	620.21 BRACING ASSEMBLY CHAIN LINK 1.8M EA	REMARKS	621.60 ANCHOR FOR STEEL BEAM RAIL EA		
			STEEL BEAM	CABLE																							
76.84	77.15	OUT		506				506	-491-		1							10		12	27						
									495.3																		
76.96	77.15	MED		291				291	-276-		1					2.42	3.24	15			12	27					
									278.13																		
77.07	MED&OUT																					-50-	-16-			BRIDGE #50, CONSTRUCT CHAIN LINK FENCE FOR UNDERPASS MED. AND OUT.	
									61.26													61.26	13.5				
77.47	77.76	OUT		460				460	-475-		1					10.08	14.50	27		2	15	27				EXTEND SOUTH 30M, CONSTRUCT 10M GUTTER.	
									941.07																		
77.83	78.06	OUT		374				374	-467-							4.84	6.48	22			8					EXTEND SOUTH 97M, CONNECT TO PREVIOUS RUN	
									467																		
77.89	77.94	MED		89				89	-78-		1										12	27					
									266.7																		
77.99	78.06	MED		91				91	-167-												7					EXTEND SOUTH 80M, CONNECT TO PREVIOUS RUN	
									167																		
78.37	78.76	MED		628				628	-723-		1					3.41	4.57	27			22	27				EXTEND SOUTH 99M	
									658.8																		
78.96	79.08	OUT		193				193	-189-		1											12	27				
									189																		
79.20	79.26	MED		97				97	-123-		1										15	27				EXTEND SOUTH 30M	
									194.31																		
79.24	79.30	OUT		92				92	-159-		1										18	27				EXTEND SOUTH 71M	
									125.73																		
79.48	79.69	OUT		338				338	-392-		1										17	27				EXTEND SOUTH 58M	
									160.02																		
79.87	80.20	OUT	531					531	-516-		1					14.27	19.12	37			12	27				REPLACE EXISTING GUARDRAIL	
									502.92																		
80.15	80.19	MED	34																							RETAIN EXISTING GUARDRAIL	
80.22																										BRIDGE 51N, OVER OMPOMPANOUSUC RIVER & VT ROUTE 132	
80.25	80.38	OUT	201					201	-197-							5.38	7.20	15				10.97	2			BETWEEN BRIDGE 51S & 51N	
									198.12																		
80.25	80.26	MED																									
80.72	81.15	OUT		690				690	-726-		1										16	27				EXTEND SOUTH 40M	
									731.52																		
81.31	81.46	OUT		242				242	-288-		1											17	27			EXTEND SOUTH 50M	
									289.56																		
81.40	81.47	MED		120				120	-146-		1										15	27				EXTEND SOUTH 30M	
									144.78																		
81.68	81.74	OUT		91				91	-155-		1					1.18	1.58	18			18	27				EXTEND SOUTH 68M	
									160.02																		
81.71	81.75	MED		61				61	-153-		1										20	27				EXTEND SOUTH 96M	
									152.4																		
82.16	82.34	OUT		117				117	-238-		1					1.96	2.63	24			23	27				EXTEND SOUTH 125M	
									236.22																		
82.60	82.93	OUT	543					543	-528-		1																
									533.4																		
83.06	83.23	OUT		270				270	-318-		1											17	27			EXTEND SOUTH 52M	
									339.09																		
83.08	83.19	MED		181				181	-258-		1										19	27				EXTEND SOUTH 81 M	
									259.08																		
83.20																										BRIDGE 52N, TH NO. 58 OVER I-91N	
SHEET 10	TOTAL		1309	4931	0	0	0	6206	7063	0	19	0	0	20	0	43.54	59.32	358	2	307	486	50	16				

NORTHBOUND. ITEM DETAIL SHEET NO. 3		PROJECT NAME: HARTFORD - NEWBURY PROJECT NUMBER: IM 091-2(67)
		FILE NAME: ...\\DGN\ZA042ID01.dgn PROJECT LEADER: C.D. LATHROP DESIGNED BY: C.D. LATHROP
		PLOT DATE: 10/12/2006 DRAWN BY: R.H. BARNES CHECKED BY: E.P. DETRICK SHEET 10 OF 32

14 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

NORTHBOUND ITEM DETAIL SUMMARY SHEET FOR HARTFORD-NEWBURY IM 091 - 2(67)



MILE MARKER	MILE MARKER	POS.	EXISTING GUARDRAIL (M)		621.77 REPLACE GUARDRAIL BEAM UNIT EA	621.76 REPLACE GUARDRAIL POST ASSEMBLY EA	621.79 ADJUST HEIGHT OF GUARDRAIL M	621.80 REMOVAL AND DISPOSAL M	621.20 STEEL BEAM GUARDRAIL (GALV.) M	621.17 CABLE GUARDRAIL M	621.505 MTS (FLARED) EA	621.65 ANCHOR FOR CABLE RAIL EA	621.65 ANCHOR FOR CABLE RAIL (MOD) EA	621.52 TRAILING END TERMINAL EA	616.40 R & R CURB M	616.31 BIT. CONCRETE CURB, TYPE B T	616.47 B. C. GUTTER & TRAFFIC ISLANDS TON	402.11 AGGREGATE SHOULDERS, TRUCK CM	301.35 SUBBASE OF D. G. C. S. CM	203.15 COMMON EXCAVATION CM	203.30 EARTH BORROW CM	620.12 CHAIN LINK FENCE 1.8M M	620.21 BRACING ASSEMBLY CHAIN LINK 1.8M EA	REMARKS	
			STEEL BEAM	CABLE																					
INTERCHANGE 14																									
RAMP D																									
0+334	0+376	RT	42				42	-27			1			1											
84.19	84.23	MED	72				72	41.91			1			1											EXTEND SOUTH 58 M, PIERS, SEE SHEET *31 FOR DETAIL
84.21								140.97																	BRIDGE 53, VT ROUTE 113 OVER I-91
84.56	84.64	OUT		119			119	-115			1			1											
85.00	85.37	OUT		528			528	-674			1			1											EXTEND SOUTH 81 M, GUARDRAIL TO EXTEND THROUGH GAP
85.43	85.45	MED	46		9		12	819.15			1			1											EXTEND SOUTH 85 M
85.43	85.46	OUT	53				53	-85			1			1											EXTEND SOUTH 56 M
85.56	85.76	OUT		332			332	-94			1			1											EXTEND SOUTH 51 M
85.72	85.76	MED		65			65	-379			1			1											EXTEND SOUTH 67 M
85.83	86.00	OUT		264			264	758.19			1			1		5.24	7.02	26							EXTEND SOUTH 69 M
85.91	86.02	MED		180			180	-128			1			1											EXTEND SOUTH 93 M
86.09	86.22	OUT		212			212	-269			1			1											EXTEND SOUTH 56 M
86.13	86.22	MED		95			95	-264			1			1											EXTEND SOUTH 93 M
86.17	MED&OUT							266.7																	BRIDGE *54, CONSTRUCT CHAIN LINK FENCE FOR UNDERPASS MED. AND OUT
86.35	86.42	OUT		110			110	-184			1			1											EXTEND SOUTH 50 M
86.36	86.42	MED		106			106	-186.69			1			1											EXTEND SOUTH 95 M
86.86	87.00	OUT		226		8		160.02						2											
87.09	87.17	OUT		84			84	-197			1			1											EXTEND SOUTH 108 M
87.24	87.28	OUT		80			80	483.87			1			1											EXTEND SOUTH 60 M, EXTEND NORTH 113M TO CONNECT WITH NEXT RUN
87.35	87.65	OUT		483		14		-249			1			1											COMBINE RUNS
87.96	88.18	OUT		361			361	-201.93						2											
88.43	88.46	MED		49			49	-188			1			1											REPLACE EXISTING GUARDRAIL
88.43	88.46	OUT		52			52	354.33			1			1											EXTEND SOUTH 99 M
88.51	89.05	MED		588			588	-133			1			1											REPLACE EXISTING GUARDRAIL
88.90	89.05	OUT						815.34						1		3.55	4.75	34							EXTEND SOUTH 80 M, CONNECT TO PREVIOUS RUN. EXTEND NORTH 177M
89.17	89.25	OUT		130		17	20	-37			1			1											EXTEND SOUTH 56 M
SHEET 11 TOTAL			805	3472	26	22	32	3403	5127	0	21	0	3	20	0	8.79	11.77	375	0	410	567	50	16		

NORTHBOUND. ITEM DETAIL SHEET NO. 4		PROJECT NAME: HARTFORD - NEWBURY	PLOT DATE: 10/12/2006
		PROJECT NUMBER: IM 091-2(67)	DRAWN BY: R.H. BARNES
		FILE NAME: ... \DGN\ZA042ID01.dgn	CHECKED BY: E.P. DETRICK
		DESIGNED BY: C.D. LATHROP	SHEET II OF 32

C:\DGN\PROJECTS\IM 091-2(67)\SHEET 11.DWG

NORTHBOUND ITEM DETAIL SUMMARY SHEET FOR HARTFORD-NEWBURY IM 091 - 2(67)



MILE MARKER	MILE MARKER	POS.	EXISTING GUARDRAIL (M)		621.77 REPLACE GUARDRAIL BEAM UNIT EA	621.76 REPLACE GUARDRAIL POST ASSEMBLY EA	621.79 ADJUST HEIGHT OF GUARDRAIL M	621.80 REMOVAL AND DISPOSAL M	621.20 STEEL BEAM GUARDRAIL (GALV.) M	621.17 CABLE GUARDRAIL M	621.50 MTS (FLARED) EA	621.65 ANCHOR FOR CABLE RAIL EA	621.65 ANCHOR FOR CABLE RAIL (MOD) EA	621.52 TRAILING END TERMINAL EA	616.40 R & R CURB M	616.31 BIT. CONCRETE CURB, TYPE B T	616.47 B. C. GUTTER & TRAFFIC ISLANDS TON	402.11 AGGREGATE SHOULDERS, TRUCK CM	301.35 SUBBASE OF D. G. C. S. CM	203.15 COMMON EXCAVATION CM	203.30 EARTH BORROW CM	620.12 CHAIN LINK FENCE 1.8M M	620.21 BRACING ASSEMBLY CHAIN LINK 1.8M EA	REMARKS		
			STEEL BEAM	CABLE																						
89.22	89.25	MED	34																						RETAIN EXISTING GUARDRAIL	
89.26		MED	27																							GUARDRAIL ACROSS ENDS OF BRIDGES TO REMAIN.
89.27																										BRIDGE 55N, OVER VT ROUTE 244
89.31		MED	31																			64.31	4			BETWEEN BRIDGES 55N & 55S
89.31	89.32	OUT																								GUARDRAIL ACROSS ENDS OF BRIDGES TO REMAIN.
89.31	89.32	MED																								RETAIN EXISTING GUARDRAIL
89.71	89.90	OUT		297			297	343 346.71			1			1				15		17	27					EXTEND SOUTH 50 M
89.98	90.22	OUT		384		10						2	2								5		5			EXTEND SOUTH 53 M BY CONSTRUCTING NEW CABLE TO MM 89.98
90.60	90.81	OUT	342				342	327 327.66			1			1				10		12	27					REPLACE EXISTING GUARDRAIL
91.14	91.35	OUT		300			300	342 571.5			1							10		17	27					EXTEND SOUTH 53 M / CONNECTS TO RAMP 'B' STA 0+000
INTECHANGE 15																						22.48	4			EXIT I5 BETWEEN BRIDGES IN MEDIAN
RAMP B																										COMBINE RUNS
0+000	0+218	RT		218			218	214					1	1		4.97	6.66	15								MM 91.35 = BEGINNING OF RAMP STA 0+218 - CONNECT TO RAMP
RAMP D																										
0+027	0+295	RT		266		20																				REPAIR EXISTING GUARDRAIL
91.46	91.51	OUT	76								1															RETAIN EXISTING GUARDRAIL
91.49	91.51	MED	38								1															RETAIN EXISTING GUARDRAIL
91.54																										BRIDGE 56N, OVER FAIRLEE STATE HIGHWAY
91.57	91.58	MED																								RETAIN EXISTING GUARDRAIL
91.57	91.64	OUT		87									1	2												RETAIN EXISTING GUARDRAIL
92.36	93.07	OUT	628																							RETAIN EXISTING GUARDRAIL
93.53	94.03	MED	810																							RETAIN EXISTING GUARDRAIL
93.56	94.07	OUT	827																							RETAIN EXISTING GUARDRAIL
94.00	MED&OUT																					50-	16-			UNDERPASS, CONSTRUCT CHAIN LINK FENCE FOR UNDERPASS MED. AND OUT.
94.20	94.40	OUT	318		4		12				1											24.0	10			REPAIR EXISTING GUARDRAIL
94.22	94.89	MED	1079		46																					REPAIR EXISTING GUARDRAIL
95.14	95.33	MED		305		7							1													REPAIR EXISTING GUARDRAIL
95.94	96.54	OUT	450	527			527	523						1												REPLACE EXISTING GUARDRAIL
SHEET 12 TOTAL			4660	2384	50	37	0	1696	1749	73	4	2	5	4	0	4.97	6.66	65	0	63	108	50	16			

NORTHBOUND. ITEM DETAIL SHEET NO. 5		PROJECT NAME: HARTFORD - NEWBURY	PLOT DATE: 10/12/2006
		PROJECT NUMBER: IM 091-2(67)	DRAWN BY: R.H. BARNES
engineering planning management development		FILE NAME: ...\\DGN\ZA042\I01.dgn	CHECKED BY: E.P. DETRICK
		DESIGNED BY: C.D. LATHROP	SHEET 12 OF 32

...\\DGN\ZA042\I01.dgn 10/12/2006 3:58:23 PM

NORTHBOUND ITEM DETAIL SUMMARY SHEET FOR HARTFORD-NEWBURY IM 091 - 2(67)



MILE MARKER	MILE MARKER	POS.	EXISTING GUARDRAIL (M)		621.77 REPLACE GUARDRAIL BEAM UNIT EA	621.76 REPLACE GUARDRAIL POST ASSEMBLY EA	621.79 ADJUST HEIGHT OF GUARDRAIL M	621.80 REMOVAL AND DISPOSAL M	621.20 STEEL BEAM GUARDRAIL (GALV.) M	621.17 CABLE GUARDRAIL M	621.50 MTS (FLARED) EA	621.65 ANCHOR FOR CABLE RAIL EA	621.65 ANCHOR FOR CABLE RAIL (MOD) EA	621.52 TRAILING END TERMINAL EA	616.40 R & R CURB M	616.35 BIT. CONCRETE CURB, TYPE B T	616.47 B. C. GUTTER & TRAFFIC ISLANDS TON	402.11 AGGREGATE SHOULDERS, TRUCK CM	301.35 SUBBASE OF D. G. C. S. CM	203.15 COMMON EXCAVATION CM	203.30 EARTH BORROW CM	620.12 CHAIN LINK FENCE 1.8M M	620.21 BRACING ASSEMBLY CHAIN LINK 1.8M EA	REMARKS	
			STEEL BEAM	CABLE																					
96.00	96.13	MED	203																						RETAIN EXISTING GUARDRAIL
96.77	97.03	MED		415			415	-51.9- 514.35			1			1		9.84	13.18	38		21	27				EXTEND SOUTH 108 M
96.81	97.04	OUT		363			363	-445- 449.58			1			1		9.19	12.31	35		20	27				EXTEND SOUTH 86 M
96.99	MED&OUT																					-50- 53.95	-16- 15		BRIDGE #57, CONSTRUCT CHAIN LINK FENCE FOR UNDERPASS MED. AND OUT.
97.14	97.31	OUT	267		3																				REPAIR EXISTING GUARDRAIL
97.51	97.61	OUT	171																						RETAIN EXISTING GUARDRAIL
97.58	97.60	MED	34																						RETAIN EXISTING GUARDRAIL
INTERCHANGE 16																									M M 97.63
97.63																									BRIDGE 58N, OVER VT ROUTE 25
97.67	97.68	MED																							RETAIN EXISTING GUARDRAIL
97.67	97.68	OUT																							RETAIN EXISTING GUARDRAIL
97.82	97.85	OUT	61																						RETAIN EXISTING GUARDRAIL
97.82	97.86	MED	46																						RETAIN EXISTING GUARDRAIL
97.88																									BRIDGE 59N, OVER WAITS RIVER
97.91	97.96	OUT																							RETAIN EXISTING GUARDRAIL
97.91	97.96	MED																							RETAIN EXISTING GUARDRAIL
97.97																									BRIDGE 60N, OVER VT ROUTE 25B
97.98	97.99	OUT																							RETAIN EXISTING GUARDRAIL
97.98	97.99	MED																							RETAIN EXISTING GUARDRAIL
98.35	98.41	OUT	88																						RETAIN EXISTING GUARDRAIL
98.39	98.41	MED	38																						RETAIN EXISTING GUARDRAIL
98.41	98.42	OUT																							RETAIN EXISTING GUARDRAIL
98.41	98.42	MED																							RETAIN EXISTING GUARDRAIL
98.43																									BRIDGE 61N, OVER TH. NO. 6
98.44	98.46	OUT																							RETAIN EXISTING GUARDRAIL
98.44	98.46	MED																							RETAIN EXISTING GUARDRAIL
98.74	98.95	OUT		337									1-2												RETAIN EXISTING GUARDRAIL
99.07	99.55	OUT	783																						RETAIN EXISTING GUARDRAIL
SHEET 13 TOTAL			1691	1115	3	0	0	778	964	0	2	0	2	2	0	19.03	25.49	73	0	41	54	50	16		

NORTHBOUND. ITEM DETAIL SHEET NO. 6		PROJECT NAME: HARTFORD - NEWBURY PROJECT NUMBER: IM 091-2(67) FILE NAME: ...\\DGN\ZA042ID01.dgn PROJECT LEADER: C.D. LATHROP DESIGNED BY: C.D. LATHROP PLOT DATE: 10/12/2006 DRAWN BY: R.H. BARNES CHECKED BY: E.P. DETRICK SHEET 13 OF 32
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SOUTHBOUND ITEM DETAIL SUMMARY SHEET FOR HARTFORD-NEWBURY IM 091-2(67)



MILE MARKER	MILE MARKER	POS.	EXISTING GUARDRAIL (M)		621.77 REPLACE GUARDRAIL BEAM UNIT EA	621.76 REPLACE GUARDRAIL POST ASSEMBLY EA	621.79 ADJUST HEIGHT OF GUARDRAIL M	621.80 REMOVAL AND DISPOSAL M	621.20 STEEL BEAM GUARDRAIL (GALV.) M	621.17 CABLE GUARDRAIL M	621.505 MTS (FLARED) EA	621.65 ANCHOR FOR CABLE RAIL EA	621.65 ANCHOR FOR CABLE RAIL (MOD) EA	621.52 TRAILING END TERMINAL EA	616.40 R & R CURB M	616.31 BIT. CONCRETE CURB, TYPE B T	616.47 B. C. GUTTER & TRAFFIC ISLANDS TON	402.11 AGGREGATE SHOULDERS, TRUCK CM	301.35 SUBBASE OF D. G. C. S. CM	203.15 COMMON EXCAVATION CM	203.30 EARTH BORROW CM	620.12 CHAIN LINK FENCE 1.8M M	620.21 BRACING ASSEMBLY CHAIN LINK 1.8M EA	REMARKS	621.60 ANCHOR FOR STEEL BEAM RAIL EA				
			STEEL BEAM	CABLE																									
100.03	100.28	MED		403		2				136 131		2	2					10		10						EXTEND NORTH 116 M WITH NEW CABLE GUARDRAIL AND REPLACE 2 POSTS			
99.34	99.62	OUT		458		9				89 0		2	2					6		6						EXTEND NORTH 69 M WITH NEW CABLE GUARDRAIL AND REPLACE 9 POSTS			
99.08	99.41	MED	584		18	4		12	45 45.72		1							9		16	27					EXTEND NORTH 45 M			
98.83	98.95	MED		193				193	301 308.61		1			1				20		22	27					EXTEND NORTH 112 M			
98.49	98.51	OUT	43																								RETAIN EXISTING GUARDRAIL		
98.48	98.50	MED	40																								RETAIN EXISTING GUARDRAIL		
98.43																											BRIDGE *61S OVER TH NO. 6		
98.41	98.43	OUT																									RETAIN EXISTING GUARDRAIL		
98.41	98.43	MED																									RETAIN EXISTING GUARDRAIL		
98.01	98.13	OUT	192					192	177 179.07		1			1				10		12	27					REPLACE EXISTING GUARDRAIL			
98.01	98.05	MED	55																								RETAIN EXISTING GUARDRAIL		
97.97																											BRIDGE *60S OVER VT 25B		
97.93	97.98	OUT																									RETAIN EXISTING APPROACH RAIL		
97.93	97.98	MED																									RETAIN EXISTING APPROACH RAIL		
97.93		MED															1.20		2								PAVE GUTTER		
97.88																											BRIDGE *59S OVER WAITS RIVER		
97.85	97.86	MED																									RETAIN EXISTING APPROACH RAIL		
97.80	97.86	OUT	101		21			8	8																		REPAIR EXISTING GUARDRAIL		
97.67	97.74	OUT	35																								RETAIN EXISTING GUARDRAIL		
97.67	97.72	MED	43																								RETAIN EXISTING GUARDRAIL		
97.63																											BRIDGE *58S OVER VT 25		
97.55	97.63	OUT		110																							RETAIN EXISTING GUARDRAIL		
97.61	97.63	MED																									RETAIN EXISTING APPROACH RAIL		
97.00		MED&OUT																					55.47	15					
INTERCHANGE 16																													
RAMP D																													
0+133	0+325	LT		192		3																						REPAIR EXISTING GUARDRAIL	
0+133	0+350	RT		217		7																					REPAIR EXISTING GUARDRAIL AND BACKUP SIDESLOPE WITH AGGREGATE (4' WIDE)		
97.26		OUT																									PAVE GUTTER		
97.12	97.28	OUT	260					260	245 243.84		1			1		6.05	8.10	22		12	27					REPLACE EXISTING GUARDRAIL			
97.00																						50	16				BRIDGE *57S, CONSTRUCT CHAIN LINK FENCE FOR UNDERPASS MED. AND OUT.		
96.76	97.03	MED		431				431	452 430.53		1			1		10.75	14.40	33		15	27					EXTEND NORTH 25 M			
96.76	97.03	OUT		431				431	478 476.25		1			1		10.11	13.54	33		17	27					EXTEND NORTH 51 M			
SHEET 17 TOTALS			1353	2435	39	25	0	1527	1706	225	6	4	7	5	0	26.91	38.44	150	4	110	162	50	16						

**SOUTHBOUND
ITEM DETAIL
SHEET NO. 2**

engineering planning management development

PROJECT NAME: HARTFORD - NEWBURY
PROJECT NUMBER: IM 091-2(67)

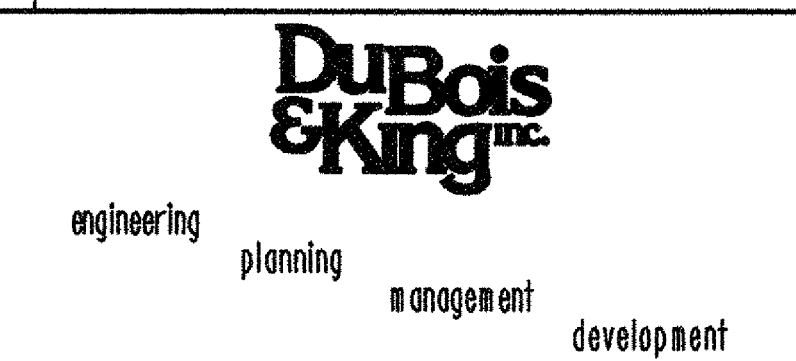
FILE NAME: ...\\DGN\ZA042ID03.dgn PLOT DATE: 10/12/2006
PROJECT LEADER: C.D. LATHROP DRAWN BY: R. H. BARNES
DESIGNED BY: R. H. BARNES CHECKED BY: E. P. DETRICK
SHEET 17 OF 32

SOUTHBOUND ITEM DETAIL SUMMARY SHEET FOR HARTFORD-NEWBURY IM 091-2(67)



MILE MARKER	MILE MARKER	POS.	EXISTING GUARDRAIL (M)		621.77 REPLACE GUARDRAIL BEAM UNIT EA	621.76 REPLACE GUARDRAIL POST ASSEMBLY EA	621.79 ADJUST HEIGHT OF GUARDRAIL M	621.80 REMOVAL AND DISPOSAL M	621.20 STEEL BEAM GUARDRAIL (GALV.) M	621.17 CABLE GUARDRAIL M	621.505 MTS (FLARED) EA	621.65 ANCHOR FOR CABLE RAIL EA	621.65 ANCHOR FOR CABLE RAIL (MOD) EA	621.52 TRAILING END TERMINAL EA	616.40 R & R CURB M	616.31 BIT. CONCRETE CURB, TYPE B T	616.47 B. C. GUTTER & TRAFFIC ISLANDS TON	402.11 AGGREGATE SHOULDERS, TRUCK CM	301.35 SUBBASE OF D. G. C. S. CM	203.15 COMMON EXCAVATION CM	203.30 EARTH BORROW CM	620.12 CHAIN LINK FENCE 1.8M M	620.21 BRACING ASSEMBLY CHAIN LINK 1.8M EA	REMARKS	621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/2.4M POSTS LF		
			STEEL BEAM	CABLE																							
96.11		MED															1.20		2						PAVE GUTTER		
95.99	96.52	MED	850				850	-943- 982.98			1			1		15.21	20.38	50		21	27				EXTEND NORTH 108 M, REPAIR EROSION AREAS		
95.99	96.17	OUT	282				282	-347- 361.95			1			1				17		19	27				EXTEND NORTH 80 M		
95.44	95.73	OUT		430			430	-512- 514.35			1			1		11.56	15.48	39	2	20	27				EXTEND NORTH 86M, REHAB DI AND ADD D.G.C.S. FOR EROSION		
95.01	95.30	OUT	466				466	-489- 506.73			1			1				14		16	27				EXTEND NORTH 38M		
94.77	94.81	MED	46				46	-121- 140.97			1			1				18		20	27				EXTEND NORTH 90M		
94.54	94.81	OUT	434				434	-466- 396.24			1			1		7.96	10.66	31		16	27				EXTEND NORTH 47M, REPAIR EROSION AREAS		
94.30	94.41	OUT	178				178	-246- 247.65			1			1				17		19	27				EXTEND NORTH 83 M		
94.00																						-50- 35.3	-16- 13		UNDERPASS, CONSTRUCT CHAIN LINK FENCE FOR UNDERPASS MED. AND OUT.		
93.50	94.03	OUT	853				853	-921- 937.26			1			1		4.57	6.12	26		19	27				EXTEND NORTH 83 M		
93.50	94.03	MED	857				857	-938- 947.07			1			1		21.50	28.80	58	3	20	27				EXTEND NORTH 96 M AND ADD D.G.C.S. FOR EROSION		
92.25	93.21	MED	1223	321			1544	-1529- 1318.26			1			1		14.35	19.22	37		12	27				REPLACE EXISTING GUARDRAIL		
93.07	93.19	OUT	202				202	-245- 430.53			1					4.22	5.65	20		17	27				EXTEND NORTH 54M AND REPAIR EROSION AREAS	COMBINE RUNS	
92.95		OUT																								PAVE GUTTER	
92.95	93.03	OUT	129				129	-190-						1		1.96	2.63	14	3	6					EXTEND NORTH 65 M TO MM 93.07 TO CONNECT WITH PREVIOUS RUN ADD D.G.C.S. FOR EROSION		
91.57	91.65	OUT	92																							RETAIN EXISTING GUARDRAIL	
91.57	91.61	MED	34																							RETAIN EXISTING GUARDRAIL	
INTERCHANGE 15																											
RAMP A																											
0+074	0+312	RT		237			237	226			1					4.46	5.98	14	3	12	27				0+312 = MM 91.34 OUT CONNECT TO MAIN LINE ADD D.G.C.S. FOR EROSION		
RAMP C																											
0+127	0+311	RT																1								REPAIR EROSION AREAS	
0+131	0+312	LT																1								REPAIR EROSION AREAS	
91.54																										BRIDGE *56S OVER FAIRLEE STATE HIGHWAY	
91.51	93.53	MED																								RETAIN EXISTING GUARDRAIL	
91.44	91.53	OUT		120		4							1													REPAIR EXISTING CABLE	
91.23	91.34	OUT		177			177	-173- 384.81						1		4.76	6.37	14								CONNECT TO RAMP A AT STA 0+312	
90.83	90.91	OUT	130				130	-185- 179.07			1			1				16		18	27					EXTEND NORTH 70M	53.34
90.57	90.60	OUT	52		3	1	20	-70- 53.34			1			1				16		18	27					EXTEND NORTH 65M, REPLACE TRAILING TWIST	
90.19	90.25	OUT	84				84	-116- 83.82			1			1				14		16	27					EXTEND NORTH 47M	
89.50	89.89	MED		628			628	-613- 621.03			1			1				10		12	27					REPLACE EXISTING GUARDRAIL	34.29
89.32	89.37	OUT	35																							RETAIN EXISTING GUARDRAIL	
89.32	89.37	MED	46																							RETAIN EXISTING GUARDRAIL	
SHEET 18 TOTALS			5993	1913	3	5	0	7547	8330	0	16	0	1	16	0	90.55	123.69	427	15	281	432	50	16				

SOUTHBOUND ITEM DETAIL SHEET NO. 3



PROJECT NAME: HARTFORD - NEWBURY
 PROJECT NUMBER: IM 091-2(67)
 FILE NAME: ...\\DGN\ZA042ID03.dgn
 PROJECT LEADER: C.D. LATHROP
 DESIGNED BY: R. H. BARNES
 PLOT DATE: 10/12/2006
 DRAWN BY: R. H. BARNES
 CHECKED BY: E. P. DETRICK
 SHEET 18 OF 32

...\\DGN\ZA042ID03.dgn 10/12/2006 4:17:58 PM

SOUTHBOUND ITEM DETAIL SUMMARY SHEET FOR HARTFORD-NEWBURY IM 091-2(67)



MILE MARKER	MILE MARKER	POS.	EXISTING GUARDRAIL (M)		621.77 REPLACE GUARDRAIL BEAM UNIT EA	621.76 REPLACE GUARDRAIL POST ASSEMBLY EA	621.79 ADJUST HEIGHT OF GUARDRAIL M	621.80 REMOVAL AND DISPOSAL M	621.20 STEEL BEAM GUARDRAIL (GALV.) M	621.17 CABLE GUARDRAIL M	621.505 MTS (FLARED) EA	621.65 ANCHOR FOR CABLE RAIL EA	621.65 ANCHOR FOR CABLE RAIL (MOD) EA	621.52 TRAILING END TERMINAL EA	616.40 R & R CURB M	616.31 BIT. CONCRETE CURB, TYPE B T	616.47 B. C. GUTTER & TRAFFIC ISLANDS TON	402.11 AGGREGATE SHOULDERS, TRUCK CM	301.35 SUBBASE OF D. G. C. S. CM	203.15 COMMON EXCAVATION CM	203.30 EARTH BORROW CM	620.12 CHAIN LINK FENCE 1.8M M	620.21 BRACING ASSEMBLY CHAIN LINK 1.8M EA	REMARKS		
			STEEL BEAM	CABLE																						
89.27																									BRIDGE #55S OVER VT 244	
89.25	89.27	MED																								RETAIN EXISTING GUARDRAIL
89.22	89.27	OUT	81																							RETAIN EXISTING GUARDRAIL
88.60	88.89	MED		465			465				1							20		22	27					EXTEND NORTH 114M
88.44	88.49	MED	79		1		12				1										18	27				EXTEND NORTH 69M
88.44	88.47	OUT	50				50				1							16		18	27					EXTEND NORTH 63M
87.86	88.02	OUT		252			252				1				4.09	5.47		22		17	27					EXTEND NORTH 53M
87.31	87.79	MED		770			770				1				2.90	3.89		23		20	27					EXTEND NORTH 90M
87.37	87.41	OUT		66			66				1							16		18	27					EXTEND NORTH 62M
87.12	87.19	MED		119			119				1							10		12	27					REPLACE EXISTING GUARDRAIL
86.38	86.44	MED		105			105				1							18		20	27					EXTEND NORTH 87M
86.18	86.26	OUT		129			129				1							15		17	27					EXTEND NORTH 56M
86.17	MED&OUT																					50- 53.03	+6- 13			BRIDGE #54, CONSTRUCT CHAIN LINK FENCE FOR UNDERPASS MED. AND OUT.
86.13	86.25	MED		201			201				1							12		19	27					EXTEND NORTH 74M COMBINE RUNS
85.87	86.07	MED		322			322				1				5.24	7.02		23	2	8						EXTEND NORTH 97M TO MM 86.13 TO CONNECT WITH PREVIOUS RUN COMBINE RUNS ADD D. G. C. S. FOR EROSION
85.75	85.78	OUT	50				50				1							17		19	27					EXTEND NORTH 77 M
85.74	85.78	MED	66		1		20				1							18		20	27					EXTEND NORTH 96M
85.43	85.47	MED	65				12				1							13		20	27					EXTEND NORTH 90M
85.42	85.46	OUT	67		1		12				1							11		18	27					EXTEND NORTH 65M
84.22	84.27	MED	80		2		12				1							12		19	27					EXTEND NORTH 74M, PIERS, SEE SHEET #31 FOR DETAIL
83.37	83.42	MED		56			56				1							18		20	27					EXTEND NORTH 87M
83.36	83.40	OUT		58			58				1							16		18	27					EXTEND NORTH 62M
83.24	83.28	MED		64			64				1							12		19	27					EXTEND NORTH 78M COMBINE RUNS
83.24	83.27	OUT		56			56				1							16		18	27					EXTEND NORTH 67M
83.10	83.18	MED		132			132				1							13		8						EXTEND NORTH 97M TO MM 83.24 TO CONNECT WITH PREVIOUS RUN COMBINE RUNS
82.50	82.92	MED		675			675				1							10		12	27					REPLACE EXISTING GUARDRAIL
82.76	82.86	OUT		155			155				1				3.23	4.32		21		17	27					EXTEND NORTH 56M
82.09	82.21	OUT		127			127				1							10		12	27					REPLACE EXISTING GUARDRAIL
81.72	81.77	MED		76			76				1							18		20	27					EXTEND NORTH 93M
81.72	81.77	OUT		71			71				1							16		18	27					EXTEND NORTH 62M
81.70		MED															1.20			2						PAVE GUTTER
SHEET 19 TOTALS				538	3899	5	0	0	4067	5601	0	24	0	0	20	0	15.46	21.90	407	4	447	648	50	16		

**SOUTHBOUND
ITEM DETAIL
SHEET NO. 4**

engineering
planning
management
development

PROJECT NAME: HARTFORD - NEWBURY
PROJECT NUMBER: IM 091-2(67)

FILE NAME: ... \DGN\ZA042ID03.dgn
PROJECT LEADER: C.D. LATHROP
DESIGNED BY: R. H. BARNES

PLOT DATE: 10/12/2006
DRAWN BY: R. H. BARNES
CHECKED BY: E. P. DETRICK
SHEET 19 OF 32

SOUTHBOUND ITEM DETAIL SUMMARY SHEET FOR HARTFORD-NEWBURY IM 091-2(67)



MILE MARKER	MILE MARKER	POS.	EXISTING GUARDRAIL (M)		621.77 REPLACE GUARDRAIL BEAM UNIT EA	621.76 REPLACE GUARDRAIL POST ASSEMBLY EA	621.79 ADJUST HEIGHT OF GUARDRAIL M	621.80 REMOVAL AND DISPOSAL M	621.20 STEEL BEAM GUARDRAIL (GALV.) M	621.17 CABLE GUARDRAIL M	621.50 MTS (FLARED) EA	621.65 ANCHOR FOR CABLE RAIL EA	621.65 ANCHOR FOR CABLE RAIL (MOD) EA	621.52 TRAILING END TERMINAL EA	616.40 R & R CURB M	616.31 BIT. CONCRETE CURB, TYPE B T	616.47 B. C. GUTTER & TRAFFIC ISLANDS TON	402.11 AGGREGATE SHOULDERS, TRUCK CM	301.35 SUBBASE OF D. G. C. S. CM	203.15 COMMON EXCAVATION CM	203.30 EARTH BORROW CM	620.12 CHAIN LINK FENCE 1.8M M	620.21 BRACING ASSEMBLY CHAIN LINK 1.8M EA	REMARKS	621.60 ANCHOR FOR STEEL BEAM RAIL EA		
			STEEL BEAM	CABLE																							
81.41	81.47	OUT		97				97	-164		1							16		18	27				EXTEND NORTH 71M		
									167.64																		
81.34	81.49	MED		183				183	-348		1							19		21	27				EXTEND NORTH 103M, CONNECT EXISTING RUNS MM 81.34-81.49 MED		
									350.52																		
80.66	80.74	OUT		125				125	-184		1					5.16	6.91	25		18	27				EXTEND NORTH 63M		
									186.69																		
80.25	80.38	OUT	216					216	-266		1							16		18	27				EXTEND NORTH 65M		
									262.89																		
80.25	80.28	MED	34																							RETAIN EXISTING GUARDRAIL	
80.25		MED	12																							GUARDRAIL ACROSS ENDS OF BRIDGES TO REMAIN	
80.22																										BRIDGE #51S OVER TH NO. 3	
80.20		MED	12																							GUARDRAIL ACROSS ENDS OF BRIDGES TO REMAIN	
80.16	80.19	MED																								RETAIN EXISTING GUARDRAIL	
79.95	80.19	OUT	384					382	-378									1								REPLACE EXISTING GUARDRAIL	
									377.19																		
79.64	79.70	MED		103				103	-198		1							19		21	27				EXTEND NORTH 99M		
									201.93																		
79.11	79.25	OUT		215				215	-264		1							15		17	27				EXTEND NORTH 53M		
									266.7																		
78.89	79.31	MED		640				640	-727		1							13		20	27				EXTEND NORTH 87M	COMBINE RUNS	
									1234.44																		
78.57	78.82	MED		410				410	-519							10.24	13.72	34	2	10						EXTEND NORTH 113M TO MM 78.84 TO CONNECT WITH PREVIOUS RUN, PAVE GUTTER	COMBINE RUNS
78.59	78.79	OUT		313				313	-371		1							16		18	27				EXTEND NORTH 62M		
									358.14																		
78.32	78.42	MED		145				145	-229		1							12		19	27				EXTEND NORTH 84M		
									228.6																		
78.23	78.36	OUT	203					203	-217		1							13		18	27				EXTEND NORTH 29M		
									251.46																		
78.22	78.25	MED	65					65	-174									15		10					EXTEND NORTH 113M TO MM 78.32 TO CONNECT WITH PREVIOUS RUN		
									140.97																		
77.89	77.97	MED		122				122	-196		1					2.37	3.17	21		19	27				EXTEND NORTH 78 M		
									137.16																		
77.85	77.92	OUT		109				109	-168		1							10		17	27				EXTEND NORTH 59M	COMBINE RUNS	
									335.28																		
77.73	77.79	OUT		70				70	-163									1		1.20	13	2	8			EXTEND NORTH 97M TO MM 77.85 TO CONNECT WITH PREVIOUS RUN, PAVE GUTTER	COMBINE RUNS
77.50	77.83	MED		466				466	-509		1					9.09	12.17	26		16	27				MAKE ONE CONTINUOUS SEGMENT MM 77.50-77.83	COMBINE RUNS	
									716.28																		
77.37	77.45	MED		125				125	-202									1		7						EXTEND NORTH 81 M TO MM 77.50 TO CONNECT WITH PREVIOUS RUN	COMBINE RUNS
77.07	MED&OUT																									BRIDGE #50, CONSTRUCT CHAIN LINK FENCE FOR UNDERPASS MED. AND OUT.	
77.08	77.25	OUT		279				279	-346		1							16		18	27				EXTEND NORTH 71M		
									346.71																		
77.00	77.20	MED		331				331	-401		1							17		19	27				EXTEND NORTH 74M		
									400.05																		
76.56	76.76	OUT		221				221	-288		1							16		18	27				EXTEND NORTH 71M		
									293.37																		
SHEET 20 TOTALS				926	3954	0	0	0	4820	6312	0	16	0	0	17	0	26.86	37.17	349	4	330	432	50	16			

**SOUTHBOUND
ITEM DETAIL
SHEET NO. 5**

engineering planning management development

PROJECT NAME: HARTFORD - NEWBURY
PROJECT NUMBER: IM 091-2(67)

FILE NAME: ...\\DGN\ZA042ID03.dgn PLOT DATE: 10/13/2006
PROJECT LEADER: C.D. LATHROP DRAWN BY: R. H. BARNES
DESIGNED BY: R. H. BARNES CHECKED BY: E. P. DETRICK
SHEET 20 OF 32

SOUTHBOUND ITEM DETAIL SUMMARY SHEET FOR HARTFORD-NEWBURY IM 091-2(67)



MILE MARKER	MILE MARKER	POS.	EXISTING GUARDRAIL (M)		621.77	621.76	621.79	621.80	621.20	621.17	621.50	621.65	621.65	621.52	616.40	616.31	616.47	402.11	301.35	203.15	203.30	620.12	620.21	REMARKS	621.60 ANCHOR FOR STEEL BEAM RAIL EA	
			STEEL BEAM	CABLE	REPLACE GUARDRAIL BEAM UNIT EA	REPLACE GUARDRAIL POST ASSEMBLY EA	ADJUST HEIGHT OF GUARDRAIL M	REMOVAL AND DISPOSAL M	STEEL BEAM GUARDRAIL (GALV.) M	CABLE GUARDRAIL M	MTS (FLARED) EA	ANCHOR FOR CABLE RAIL EA	ANCHOR FOR CABLE RAIL (MOD) EA	TRAILING END TERMINAL EA	R & R CURB M	BIT. CONCRETE CURB, TYPE B T	B. C. GUTTER & TRAFFIC ISLANDS TON	AGGREGATE SHOULDERS, TRUCK CM	SUBBASE OF D. G. C. S. CM	COMMON EXCAVATION CM	EARTH BORROW CM	CHAIN LINK FENCE 1.8M M	BRACING ASSEMBLY CHAIN LINK 1.8M EA			
75.87	75.93	OUT	55		2																			REPAIR EXISTING GUARDRAIL		
75.87	75.91	MED	34																						RETAIN EXISTING GUARDRAIL	
75.84																									BRIDGE *49S OVER U. S. 5	
75.74		OUT															1.20		2						PAVE GUTTER	
75.79	75.83	MED																								
75.57		OUT																								
75.49	75.83	OUT		538			538	534 697.23						1		9.44	12.64	23							LEADING END TO START AT BRIDGE ABUTMENT, OUTSIDE BRIDGE APPROACH RAIL SO OVERLAP OCCURS	1
75.40	75.46	OUT		75			75	161						1		1.32	1.76	12		5					EXTEND NORTH 49 M TO MM 75.49 TO CONNECT WITH PREVIOUS RUN. EXTEND SOUTH 31 M	COMBINE RUNS
74.90	74.93	OUT	35																						RETAIN EXISTING GUARDRAIL	
74.90	74.92	MED	37		1																				REPAIR EXISTING GUARDRAIL	
74.83																									BRIDGE *48S OVER VT 10A	
74.80	74.83	MED																							RETAIN EXISTING GUARDRAIL	
74.65	74.83	OUT	272				268	264 259.08						1		5.89	7.88	16							REPLACE EXISTING GUARDRAIL	
INTERCHANGE 13																										
RAMP B																										
0+017	0+226	RT													209										REMOVE AND RESET GRANITE CURB	
0+162		RT															1.20		2						PAVE GUTTER	
0+017	0+093	LT																							REPAIR ERODED AREAS	
RAMP D																										
0+110	0+209	RT		99			99	84 83.82						1		1.59	2.12	13		12	27				REPLACE EXISTING GUARDRAIL	
73.58	73.95	OUT		599			599	587 822.96						1		6.69	8.96	23		12	27				REPLACE EXISTING GUARDRAIL	COMBINE RUNS
73.71	73.79	MED		120			120	209 213.36						1				19		20	27				EXTEND NORTH 93 M, REPAIR EROSION AREAS	
73.37	73.51	MED		198			198	277 281.94						1				17		19	27				EXTEND NORTH 83 M	
73.31	73.54	OUT		335			335	396						1		5.24	7.02	21		6					EXTEND NORTH 65 M TO MM 73.58 TO CONNECT WITH PREVIOUS RUN	
73.13																									BRIDGE *47S OVER U. S. 5	
73.00	73.09	OUT	144		4																				RETAIN EXISTING GUARDRAIL	
73.00	73.05	MED	58																						RETAIN EXISTING GUARDRAIL	
72.94	72.97	MED																							RETAIN EXISTING GUARDRAIL	
72.84	72.97	OUT	209		6	2																				
SHEET 21 TOTALS			844	1964	13	2	0	2232	2502	0	4	0	0	8	209	30.17	42.78	147	4	74	108	0	0			

**SOUTHBOUND
ITEM DETAIL
SHEET NO. 6**

engineering planning management development

PROJECT NAME: HARTFORD - NEWBURY
 PROJECT NUMBER: IM 091-2(67)
 FILE NAME: ...\\DGN\ZA042ID03.dgn PLOT DATE: 10/12/2006
 PROJECT LEADER: C.D. LATHROP DRAWN BY: R. H. BARNES
 DESIGNED BY: R. H. BARNES CHECKED BY: E. P. DETRICK
 SHEET 21 OF 32

SOUTHBOUND ITEM DETAIL SUMMARY SHEET FOR HARTFORD-NEWBURY IM 091-2(67)



MILE MARKER	MILE MARKER	POS.	EXISTING GUARDRAIL (M)		621.77	621.76	621.79	621.80	621.20	621.17	621.505	621.65	621.65	621.60	616.40	616.31	616.47	402.11	301.35	203.15	203.30	620.12	620.21	REMARKS	621.505	621.60	
			STEEL BEAM	CABLE	REPLACE GUARDRAIL BEAM UNIT EA	REPLACE GUARDRAIL POST ASSEMBLY EA	ADJUST HEIGHT OF GUARDRAIL M	REMOVAL AND DISPOSAL M	STEEL BEAM GUARDRAIL (GALV.) M	CABLE GUARDRAIL M	MTS (FLARED) EA	ANCHOR FOR CABLE RAIL EA	ANCHOR FOR CABLE RAIL (MOD) EA	TRAILING END TERMINAL EA	R & R CURB M	BIT. CONCRETE CURB, TYPE B T	B. C. GUTTER & TRAFFIC ISLANDS TON	AGGREGATE SHOULDERS, TRUCK CM	SUBBASE OF D. G. C. S. EXCAVATION CM	COMMON CM	EARTH BORROW CM	CHAIN LINK FENCE 1.8M M	BRACING ASSEMBLY CHAIN LINK 1.8M EA		MTS (TANGENT) EA	ANCHOR FOR STEEL BEAM RAIL EA	
72.60	72.73	OUT	209		5	1	20																	REPAIR EXISTING GUARDRAIL			
72.32	72.35	MED	52				52	137 133.35		1				1			17		23	27				INSTALL NEW GUARDRAIL. SEE SHEET #31 FOR DETAILS.			
72.01																								BRIDGE #45S OVER WILDER STATE HIGHWAY			
71.91	71.97	OUT	103																					RETAIN EXISTING GUARDRAIL			
71.91	71.94	MED	105																					RETAIN EXISTING GUARDRAIL			
71.85	71.88	OUT																						RETAIN EXISTING GUARDRAIL			
71.84	71.88	MED																						RETAIN EXISTING GUARDRAIL			
71.76		MED																						PAVE GUTTER			
INTERCHANGE 12																											
RAMP B																											
0+004	0+045	RT	40				8	38 38.1						1			8			3					EXTEND SOUTH 34 M, REPLACE TRAILING END UNIT		
RAMP D																											
0+118	0+344	RT	200		3	2	31	12						1			1.20	5	2	12	27			PAVE GUTTER, REPLACE EXISTING MTS			
0+107		RT															1.20		2					PAVE GUTTER			
0+161		RT															1.20		2					PAVE GUTTER, REPAIR SINK HOLE			
71.27	71.57	MED	483		48	5	12	81 80.01		1							12	6	19	27				EXTEND NORTH 81 M			
71.24		MED															1.20		2					PAVE GUTTER			
71.21		OUT															1.20		2					PAVE GUTTER			
71.19		MED															1.20		2					PAVE GUTTER			
71.09		MED															1.20		2					PAVE GUTTER			
71.08		MED																						RETAIN EXISTING BRIDGE APPROACH RAIL			
71.07	71.28	OUT	64																					RETAIN EXISTING BRIDGE APPROACH RAIL			
70.53	70.73	MED	206				206	312 320.04		1				1			26		22	27				EXTEND NORTH 121 M, REPAIR EROSION AREAS			
70.24	70.29	MED	85				85	117 125.73		1				1			14		16	27				EXTEND NORTH 47 M			
70.34	70.38	MED																									
INTERCHANGE 11																											
RAMP A																											
0+544	0+591	RT	47					60.96																	RETAIN EXISTING GUARDRAIL		
0+240	0+500	RT															260							REMOVE AND RESET GRANITE CURB			
0+200	0+470	LT															270							REMOVE AND RESET GRANITE CURB			
SHEET 22 TOTALS			1594	0	56	8	51	375	685	0	5	0	0	4	530	0.00	9.60	82	22	95	135	0	0				

**SOUTHBOUND
ITEM DETAIL
SHEET NO. 7**

engineering
planning
management
development

PROJECT NAME: HARTFORD - NEWBURY
PROJECT NUMBER: IM 091-2(67)

FILE NAME: ...\\DGN\ZA042ID03.dgn
PROJECT LEADER: C.D. LATHROP
DESIGNED BY: R. H. BARNES

PLOT DATE: 10/12/2006
DRAWN BY: R. H. BARNES
CHECKED BY: E. P. DETRICK
SHEET 22 OF 32

SOUTHBOUND ITEM DETAIL SUMMARY SHEET FOR HARTFORD-NEWBURY IM 091-2(67)



MILE MARKER	MILE MARKER	POS.	EXISTING GUARDRAIL (M)		621.77	621.76	621.79	621.80	621.20	621.17	621.505	621.65	621.65	621.52	616.40	616.31	616.47	402.11	301.35	203.15	203.30	620.12	620.21	REMARKS
			STEEL BEAM	CABLE	REPLACE GUARDRAIL BEAM UNIT EA	REPLACE GUARDRAIL POST ASSEMBLY EA	ADJUST HEIGHT OF GUARDRAIL M	REMOVAL AND DISPOSAL M	STEEL BEAM GUARDRAIL (GALV.) M	CABLE GUARDRAIL M	M/S (FLARED) EA	ANCHOR FOR CABLE RAIL EA	ANCHOR FOR CABLE RAIL (MOD) EA	TRAILING END TERMINAL EA	R & R CURB M	BIT CONCRETE CURB, TYPE B T	B. C. GUTTER & TRAFFIC ISLANDS TON	AGGREGATE SHOULDERS, TRUCK CM	SUBBASE OF D. G. C. S CM	COMMON EXCAVATION CM	EARTH BORROW CM	CHAIN LINK FENCE 1.8M M	BRACING ASSEMBLY CHAIN LINK 1.8M EA	
RAMP B																								
0+150	0+225	RT	75				75	-83- 83.82		1				1				12	2	14	27			EXTEND NORTH 23 M AND ADD D. G. C. S FOR EROSION
0+140	0+260	RT												120										REMOVE AND RESET GRANITE CURB
0+140	0+160	LT												28										REMOVE AND RESET GRANITE CURB
0+340	0+621	LT												300										REMOVE AND RESET GRANITE CURB
0+620		LT														1.20		2						PAVE GUTTER
RAMP F																								
0+010	0+150	LT												140										
70.20																								BRIDGE #43S OVER U. S. 5
70.17	70.21	OUT	75																					
70.17	70.21	MED	65																					
70.13	70.16	MED																						
70.04	70.16	OUT	193				189	+89- 186.69							1.56	2.09	5							REPAIR EROSION AREAS
70.03	70.04	MED	27				27	-79- 22.09		1				1				16		18	27			EXTEND NORTH 67 M
69.95	70.04	OUT	146		7	5	48																	
SHEET 23 TOTALS			581	0	7	5	48	291	351	0	2	0	0	2	588	1.56	3.29	33	4	32	54	0	0	
SHEET 16 TOTALS			952	2465	7	18	0	2279	2887	0	10	0	5	10	0	40.32	54.00	253	0	180	270	0	0	
SHEET 17 TOTALS			1353	2435	39	25	0	1527	1706	225	6	4	11	5	0	26.91	38.44	150	4	110	162	50	16	
SHEET 18 TOTALS			5993	1913	3	5	0	7547	8330	0	16	0	1	16	0	90.55	123.69	427	15	281	432	50	16	
SHEET 19 TOTALS			538	3899	5	0	0	4067	5601	0	24	0	0	20	0	15.46	21.90	407	4	447	648	50	16	
SHEET 20 TOTALS			926	3954	0	0	0	4820	6312	0	16	0	0	17	0	26.86	37.17	349	4	330	432	50	16	
SHEET 21 TOTALS			844	1964	13	2	0	2232	2502	0	4	0	0	8	209	30.17	42.78	147	4	74	108	0	0	
SHEET 22 TOTALS			1594	0	56	8	51	375	685	0	5	0	0	4	530	0.00	9.60	82	22	95	135	0	0	
SHEET 23 TOTALS			581	0	7	5	48	291	351	0	2	0	0	2	588	1.56	3.29	33	4	32	54	0	0	
SOUTHBOUND TOTALS			12781	16630	130	63	99	23138	28374	225	83	4	12	82	1327	231.83	330.87	1848	57	1549	2241	200	64	
NORTHBOUND TOTALS			13252	15529	180	110	202	16915	20477	73	72	2	13	73	60	140.61	191.71	1371	6	1237	1917	200	64	
GRAND TOTALS			26033	32159	310	173	301	40053	48851	298	155	6	25	155	1387	372.44	522.58	3219	63	2786	4158	400	128	

SOUTHBOUND ITEM DETAIL SHEET NO. 8	<p style="font-size: 8px;">engineering planning management development</p>	PROJECT NAME: HARTFORD - NEWBURY PROJECT NUMBER: IM 091-2(67) FILE NAME: ... \DGN\ZA042ID03.dgn PLOT DATE: 10/12/2006 PROJECT LEADER: C.D. LATHROP DRAWN BY: R. H. BARNES DESIGNED BY: R. H. BARNES CHECKED BY: E. P. DETRICK SHEET 23 OF 32
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... \DGN\ZA042ID03.dgn 10/12/2006 4:28:21 PM

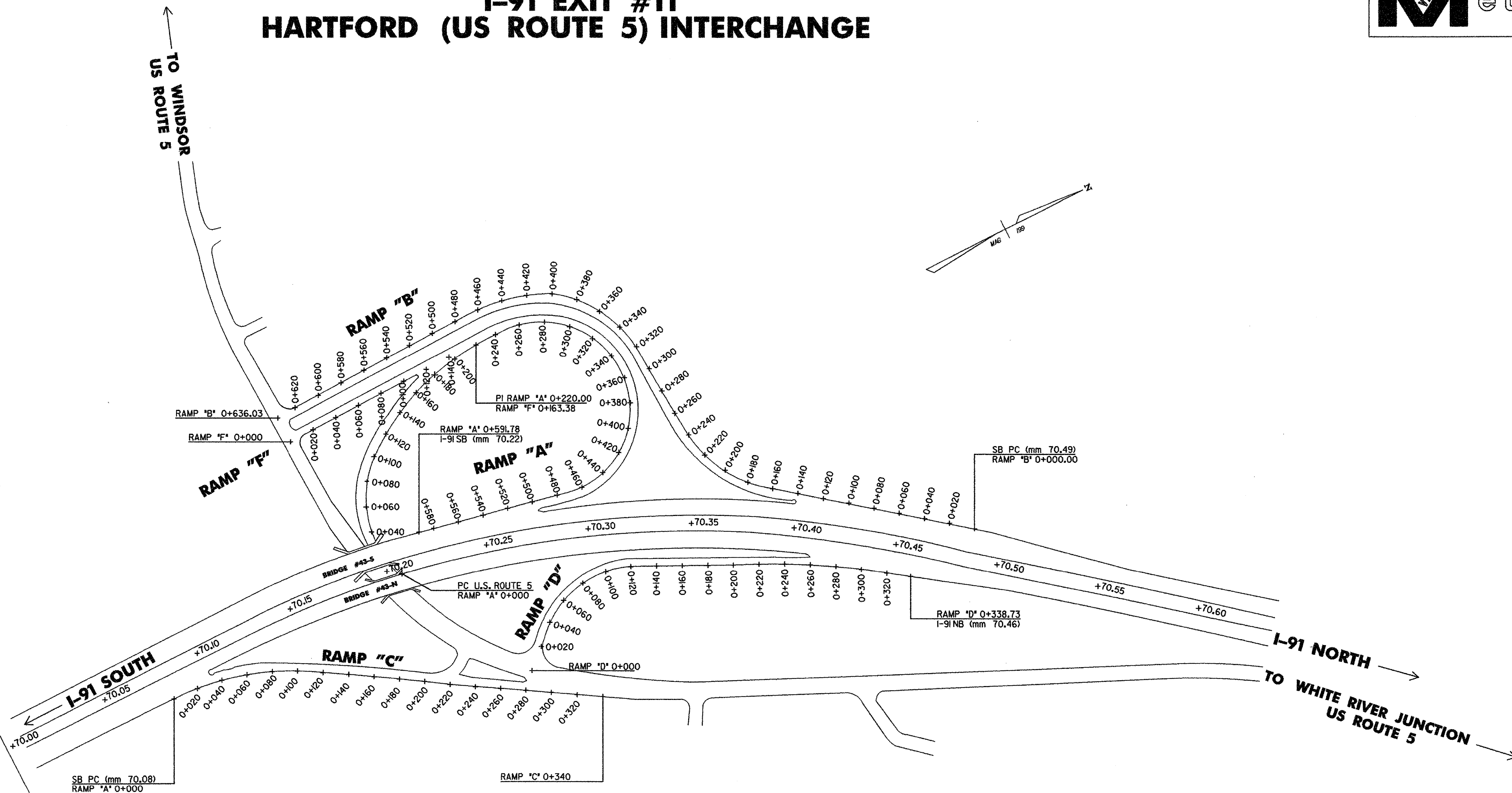
I-91 EXIT #11 HARTFORD (US ROUTE 5) INTERCHANGE

NORTHBOUND RAMPS

REMOVING AND RESETTING CURB

RAMP "D" 0+021 - 0+120 RT (60M)

**BEGIN PROJECT
HARTFORD - NEWBURY
IM 091-2(67)
MM 69.96**



SOUTHBOUND RAMPS

REMOVAL AND DISPOSAL OF GUARDRAIL

RAMP "B" 0+150 - 0+225 RT (75M)

STEEL BEAM GUARDRAIL (GALVANIZED)

RAMP "B" 0+138 - 0+221 RT (83M)

MANUFACTURED TERMINAL SECTION (FLARED)

RAMP "B" 0+138 RT (1 EA)

TRAILING END TERMINAL

RAMP "B" 0+221 RT (1 EA)

REMOVING AND RESETTING CURB

RAMP "A" 0+240 - 0+500 RT (260M)
RAMP "A" 0+200 - 0+470 LT (270M)
RAMP "B" 0+140 - 0+260 RT (120M)
RAMP "B" 0+140 - 0+160 LT (28M)
RAMP "B" 0+340 - 0+621 LT (300M)
RAMP "F" 0+010 - 0+150 LT (140M)

BITUMINOUS CONCRETE GUTTER AND TRAFFIC ISLANDS

RAMP "B" 0+620 LT (1.00T)

AGGREGATE SHOULDERS

RAMP "B" 0+150 - 0+225 RT (11.88 CM)

SUBBASE OF DENSE GRADED CRUSHED STONE

RAMP "B" 0+150 - 0+225 RT (2 CM)
RAMP "B" 0+620 LT (2 CM)

SEE ITEM DETAIL SUMMARY SHEETS FOR:

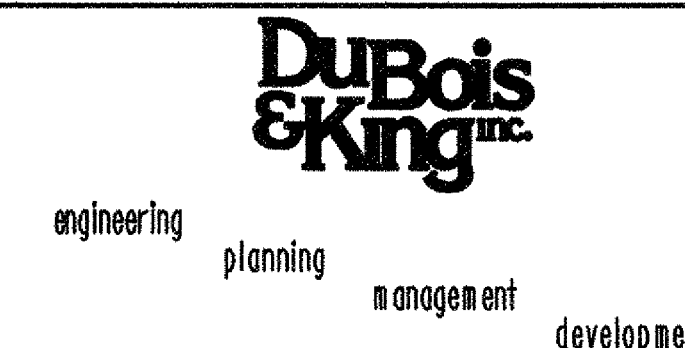
621.17 CABLE GUARDRAIL
621.20 STEEL BEAM GUARDRAIL (GALVANIZED)
621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/2.4M POSTS
621.505 MANUFACTURED TERMINAL SECTION (FLARED)
621.505 MANUFACTURED TERMINAL SECTION (TANGENT)
621.52 TRAILING END TERMINAL
621.60 ANCHOR FOR STEEL BEAM GUARDRAIL
621.65 ANCHOR FOR CABLE RAIL
621.65 ANCHOR FOR CABLE RAIL (MOD)

NOTES

- REFER TO GUARDRAIL ITEM DETAIL SHEETS FOR GUARDRAIL ITEMS.
- MILE MARKER INFORMATION ON THIS SHEET IS CONSISTENT WITH VTRANS ROUTE LOGS. FIELD CONDITIONS MAY VARY.

NOT TO SCALE

**INTERCHANGE
NO. 11
LAYOUT SHEET**



PROJECT NAME: HARTFORD - NEWBURY
PROJECT NUMBER: IM 091-2(67)

FILE NAME: ... \DGN\z042LA01.dgn
PROJECT LEADER: C.D. LATHROP
DESIGNED BY: C.D. LATHROP
PLOT DATE: 09/25/2006
DRAWN BY: R. H. BARNES
CHECKED BY: E.P. DETRICK
SHEET 24 OF 32

I-91 EXIT #12 WILDER (TO US ROUTE 5) INTERCHANGE

NORTHBOUND RAMP

REPLACE GUARDRAIL BEAM UNIT

RAMP "A" 0+254 - 0+417 RT (10 EA)
RAMP "C" 0+006 - 0+376 RT (7 EA)

REPLACE GUARDRAIL POST ASSEMBLY

RAMP "A" 0+254 - 0+417 RT (7 EA)
RAMP "C" 0+006 - 0+376 RT (6 EA)

ADJUST GUARDRAIL HEIGHT

RAMP "A" 0+254 - 0+417 RT (20M)
RAMP "C" 0+006 - 0+376 RT (50M)

REMOVAL AND DISPOSAL OF GUARDRAIL

RAMP "A" 0+254 - 0+417 RT (11M)
RAMP "C" 0+006 - 0+376 RT (23M)

STEEL BEAM GUARDRAIL (GALVANIZED)

RAMP "C" 0+006 - 0+376 RT (115M)

MANUFACTURED TERMINAL SECTION (FLARED)

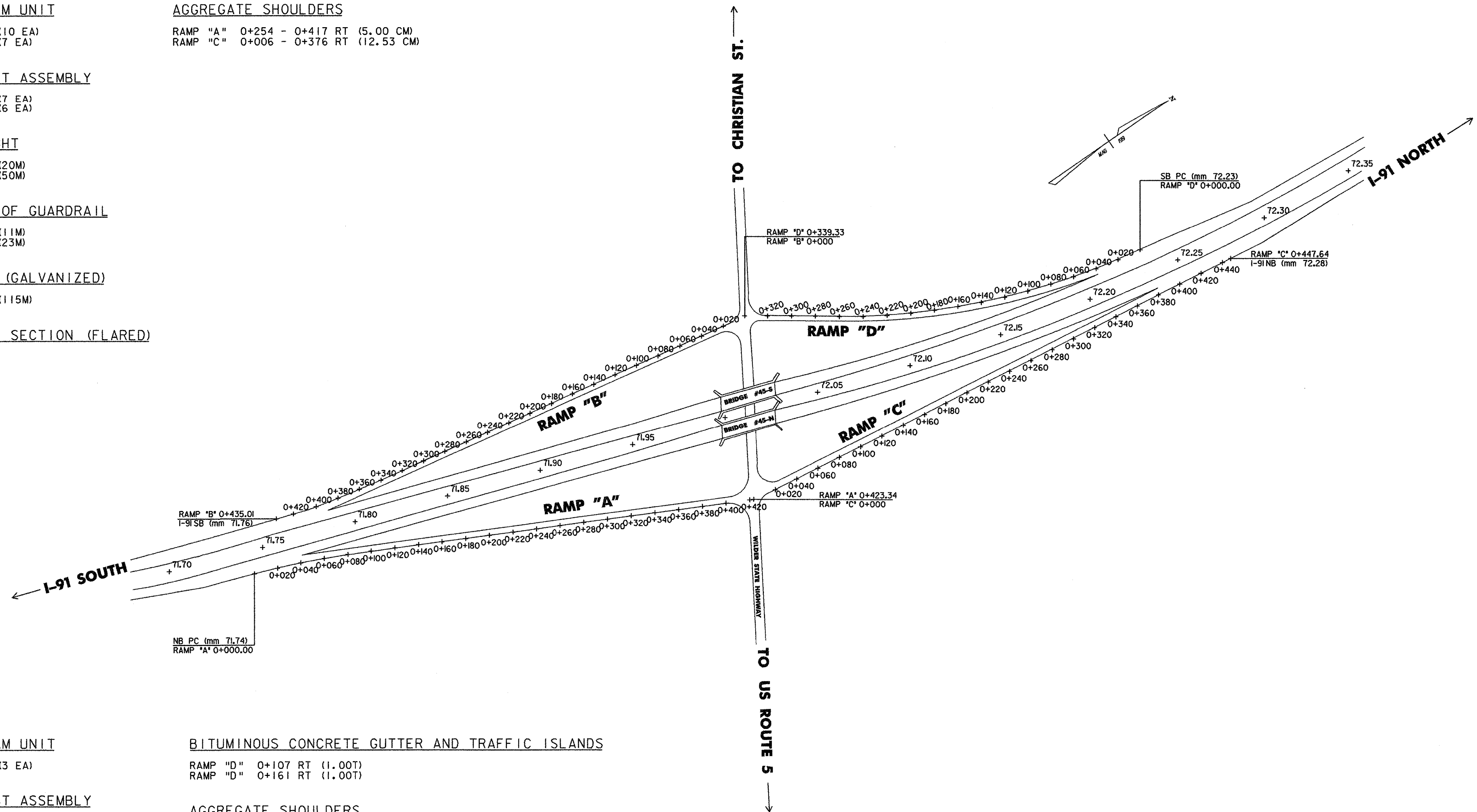
RAMP "A" 0+254 RT (1 EA)

TRAILING END TERMINAL

RAMP "C" 0+139 RT (1 EA)

AGGREGATE SHOULDERS

RAMP "A" 0+254 - 0+417 RT (5.00 CM)
RAMP "C" 0+006 - 0+376 RT (12.53 CM)



SOUTHBOUND RAMP

REPLACE GUARDRAIL BEAM UNIT

RAMP "D" 0+118 - 0+334 RT (3 EA)

REPLACE GUARDRAIL POST ASSEMBLY

RAMP "D" 0+118 - 0+334 RT (2 EA)

REMOVAL AND DISPOSAL OF GUARDRAIL

RAMP "B" 0+037 - 0+045 RT (8M)
RAMP "D" 0+118 - 0+130 RT (12M)

STEEL BEAM GUARDRAIL (GALVANIZED)

RAMP "B" 0+037 - 0+075 RT (38M)

MANUFACTURED TERMINAL SECTION (FLARED)

RAMP "D" 0+118 RT (1 EA)

TRAILING END TERMINAL

RAMP "B" 0+071 RT (1 EA)

BITUMINOUS CONCRETE GUTTER AND TRAFFIC ISLANDS

RAMP "D" 0+107 RT (1.00T)
RAMP "D" 0+161 RT (1.00T)

AGGREGATE SHOULDERS

RAMP "B" 0+004 - 0+045 RT (7.78 CM)
RAMP "D" 0+118 - 0+344 RT (5.00 CM)

SUBBASE OF DENSE GRADED CRUSHED STONE

RAMP "D" 0+107 RT (2 CM)
RAMP "D" 0+161 RT (2 CM)
RAMP "D" 0+188 - 0+344 RT (2 CM)

SEE ITEM DETAIL SUMMARY SHEETS FOR:

- 621.17 CABLE GUARDRAIL
- 621.20 STEEL BEAM GUARDRAIL (GALVANIZED)
- 621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/2.4M POSTS
- 621.505 MANUFACTURED TERMINAL SECTION (FLARED)
- 621.505 MANUFACTURED TERMINAL SECTION (TANGENT)
- 621.52 TRAILING END TERMINAL
- 621.60 ANCHOR FOR STEEL BEAM GUARDRAIL
- 621.65 ANCHOR FOR CABLE RAIL
- 621.65 ANCHOR FOR CABLE RAIL (MOD)

NOTES

1. REFER TO GUARDRAIL ITEM DETAIL SHEETS FOR GUARDRAIL ITEMS.
2. MILE MARKERS INFORMATION ON THIS SHEET IS CONSISTENT WITH VTRANS ROUTE LOGS. FIELD CONDITIONS MAY VARY.

NOT TO SCALE

INTERCHANGE NO. 12 LAYOUT SHEET		PROJECT NAME: HARTFORD - NEWBURY
		PROJECT NUMBER: IM 09I-2(67)
	engineering planning management development	FILE NAME: ... \DGN\z0042LA01.dgn PROJECT LEADER: C.D. LATHROP DESIGNED BY: C.D. LATHROP
		PLOT DATE: 09/25/2006 DRAWN BY: R. H. BARNES CHECKED BY: E.P. DETRICK SHEET 25 OF 32

I-91 EXIT #13 NORWICH (US ROUTE 5 & VT ROUTE 10A) INTERCHANGE

NORTHBOUND RAMPS

REMOVAL AND DISPOSAL OF GUARDRAIL

RAMP "A" 0+088 - 0+328 RT (243M)
RAMP "C" 0+188 - 0+351 RT (151M)

STEEL BEAM GUARDRAIL (GALVANIZED)

RAMP "A" 0+088 - 0+328 RT (228M)
RAMP "C" 0+188 - 0+351 RT (140M)

MANUFACTURED TERMINAL SECTION (FLARED)

RAMP "A" 0+088 RT (1 EA)
RAMP "C" 0+188 RT (1 EA)

TRAILING END TERMINAL

RAMP "A" 0+328 RT (1 EA)

BITUMINOUS CONCRETE CURB, TYPE B

RAMP "A" 0+088 - 0+328 RT (6.05T)
RAMP "C" 0+188 - 0+351 RT (4.06T)

BITUMINOUS CONCRETE GUTTER AND TRAFFIC ISLANDS

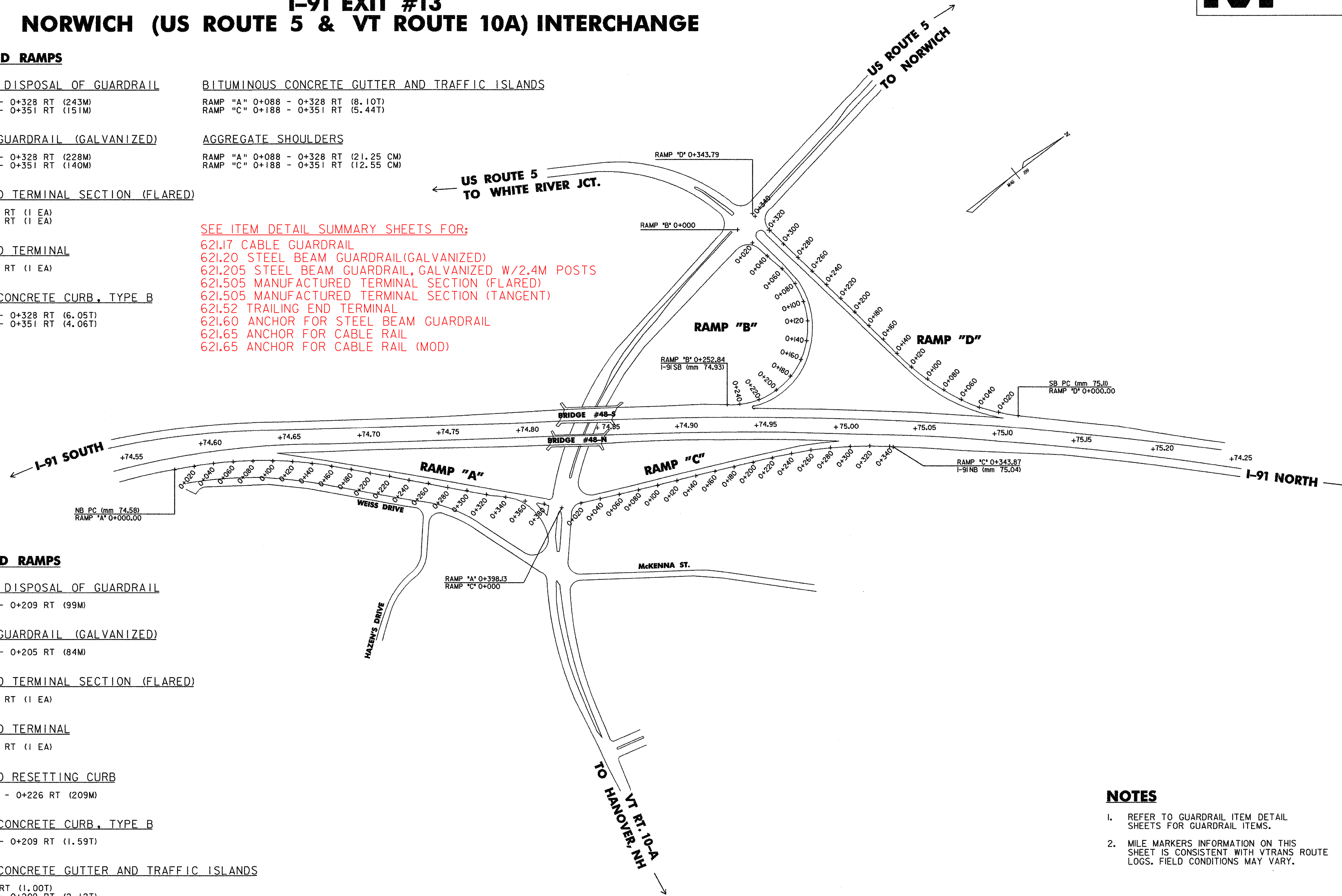
RAMP "A" 0+088 - 0+328 RT (8.10T)
RAMP "C" 0+188 - 0+351 RT (5.44T)

AGGREGATE SHOULDERS

RAMP "A" 0+088 - 0+328 RT (21.25 CM)
RAMP "C" 0+188 - 0+351 RT (12.55 CM)

SEE ITEM DETAIL SUMMARY SHEETS FOR:

- 621.17 CABLE GUARDRAIL
- 621.20 STEEL BEAM GUARDRAIL(GALVANIZED)
- 621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/2.4M POSTS
- 621.505 MANUFACTURED TERMINAL SECTION (FLARED)
- 621.505 MANUFACTURED TERMINAL SECTION (TANGENT)
- 621.52 TRAILING END TERMINAL
- 621.60 ANCHOR FOR STEEL BEAM GUARDRAIL
- 621.65 ANCHOR FOR CABLE RAIL
- 621.65 ANCHOR FOR CABLE RAIL (MOD)



SOUTHBOUND RAMPS

REMOVAL AND DISPOSAL OF GUARDRAIL

RAMP "D" 0+110 - 0+209 RT (99M)

STEEL BEAM GUARDRAIL (GALVANIZED)

RAMP "D" 0+121 - 0+205 RT (84M)

MANUFACTURED TERMINAL SECTION (FLARED)

RAMP "D" 0+121 RT (1 EA)

TRAILING END TERMINAL

RAMP "D" 0+209 RT (1 EA)

REMOVING AND RESETTING CURB

RAMP "B" 0+017 - 0+226 RT (209M)

BITUMINOUS CONCRETE CURB, TYPE B

RAMP "D" 0+110 - 0+209 RT (1.59T)

BITUMINOUS CONCRETE GUTTER AND TRAFFIC ISLANDS

RAMP "B" 0+162 RT (1.00T)
RAMP "D" 0+110 - 0+209 RT (2.12T)

AGGREGATE SHOULDERS

RAMP "B" 0+017 - 0+093 LT (3.00 CM)
RAMP "D" 0+110 - 0+209 RT (12.95 CM)

SUBBASE OF DENSE GRADED CRUSHED STONE

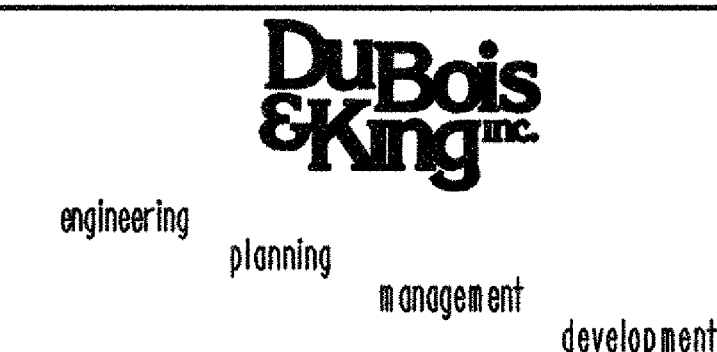
RAMP "B" 0+162 RT (2 CM)

NOTES

1. REFER TO GUARDRAIL ITEM DETAIL SHEETS FOR GUARDRAIL ITEMS.
2. MILE MARKERS INFORMATION ON THIS SHEET IS CONSISTENT WITH VTRANS ROUTE LOGS. FIELD CONDITIONS MAY VARY.

NOT TO SCALE

**INTERCHANGE
NO. 13
LAYOUT SHEET**



PROJECT NAME: HARTFORD - NEWBURY
PROJECT NUMBER: IM 091-2(67)

FILE NAME: ... \DGN\z\042LA01.dgn
DESIGNED BY: C.D. LATHROP
PLOT DATE: 09/25/2006
DRAWN BY: R. H. BARNES
CHECKED BY: E.P. DETRICK
SHEET 26 OF 32

I-91 EXIT #14 THETFORD (VT ROUTE 113) INTERCHANGE

NORTHBOUND RAMPS

REMOVAL AND DISPOSAL OF GUARDRAIL

RAMP "D" 0+334 - 0+376 RT (42M)

STEEL BEAM GUARDRAIL (GALVANIZED)

RAMP "D" 0+334 - 0+376 RT (27M)

MANUFACTURED TERMINAL SECTION (FLARED)

RAMP "D" 0+334 RT (1 EA)

TRAILING END TERMINAL

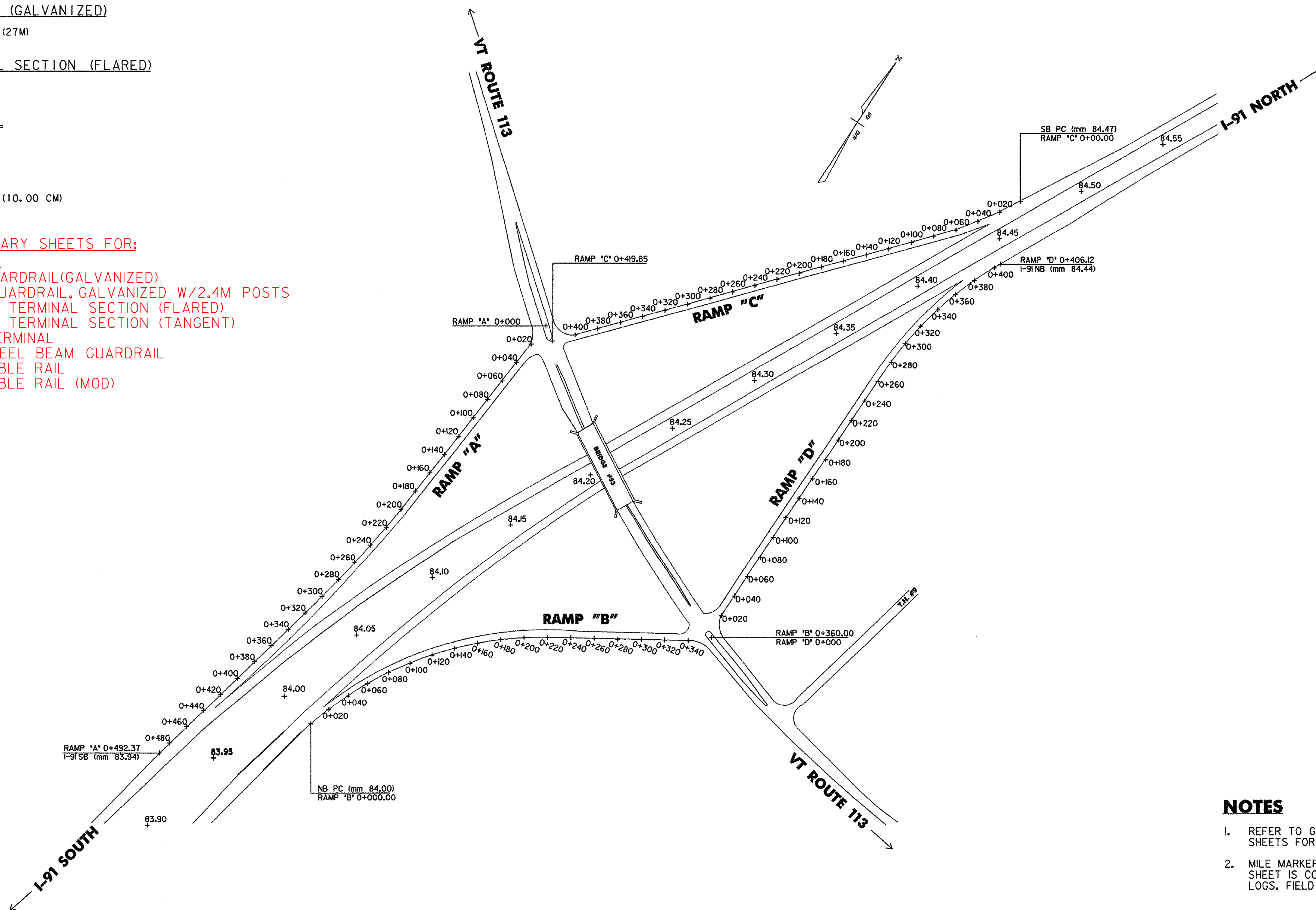
RAMP "D" 0+376 RT (1 EA)

AGGREGATE SHOULDERS

RAMP "D" 0+334 - 0+376 RT (10.00 CM)

SEE ITEM DETAIL SUMMARY SHEETS FOR:

- 621.17 CABLE GUARDRAIL
- 621.20 STEEL BEAM GUARDRAIL(GALVANIZED)
- 621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/2.4M POSTS
- 621.505 MANUFACTURED TERMINAL SECTION (FLARED)
- 621.505 MANUFACTURED TERMINAL SECTION (TANGENT)
- 621.52 TRAILING END TERMINAL
- 621.60 ANCHOR FOR STEEL BEAM GUARDRAIL
- 621.65 ANCHOR FOR CABLE RAIL
- 621.65 ANCHOR FOR CABLE RAIL (MOD)



NOTES

1. REFER TO GUARDRAIL ITEM DETAIL SHEETS FOR GUARDRAIL ITEMS.
2. MILE MARKERS INFORMATION ON THIS SHEET IS CONSISTENT WITH VTRANS ROUTE LOGS. FIELD CONDITIONS MAY VARY.

NOT TO SCALE

INTERCHANGE NO. 14 LAYOUT SHEET	 <small>engineering planning management development</small>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; border-bottom: none;"> PROJECT NAME: HARTFORD - NEWBURY PROJECT NUMBER: IM 091-2(67) </td> <td style="width: 50%; border-bottom: none;"> PLOT DATE: 09/25/2006 DRAWN BY: R. H. BARNES CHECKED BY: E.P. DETRICK SHEET 27 OF 32 </td> </tr> <tr> <td style="border-top: none;"> FILE NAME: ...\\DGN\z\042LA01.dgn PROJECT LEADER: C.D. LATHROP DESIGNED BY: C.D. LATHROP </td> <td style="border-top: none;"></td> </tr> </table>	PROJECT NAME: HARTFORD - NEWBURY PROJECT NUMBER: IM 091-2(67)	PLOT DATE: 09/25/2006 DRAWN BY: R. H. BARNES CHECKED BY: E.P. DETRICK SHEET 27 OF 32	FILE NAME: ...\\DGN\z\042LA01.dgn PROJECT LEADER: C.D. LATHROP DESIGNED BY: C.D. LATHROP	
PROJECT NAME: HARTFORD - NEWBURY PROJECT NUMBER: IM 091-2(67)	PLOT DATE: 09/25/2006 DRAWN BY: R. H. BARNES CHECKED BY: E.P. DETRICK SHEET 27 OF 32					
FILE NAME: ...\\DGN\z\042LA01.dgn PROJECT LEADER: C.D. LATHROP DESIGNED BY: C.D. LATHROP						

I-91 EXIT #15 FAIRLEE INTERCHANGE

NORTHBOUND RAMP

REPLACE GUARDRAIL POST ASSEMBLY

RAMP "D" 0+027 - 0+295 RT (20 EA)

REMOVAL AND DISPOSAL OF GUARDRAIL

RAMP "B" 0+000 - 0+218 RT (218M)

STEEL BEAM GUARDRAIL (GALVANIZED)

RAMP "B" 0+000 - 0+218 RT (214M)

TRAILING END TERMINAL

RAMP "B" 0+218 RT (1 EA)

BITUMINOUS CONCRETE CURB, TYPE B

RAMP "B" 0+000 - 0+218 RT (4.97T)

BITUMINOUS CONCRETE GUTTER AND TRAFFIC ISLANDS

RAMP "B" 0+000 - 0+218 RT (6.66T)

AGGREGATE SHOULDERS

RAMP "B" 0+000 - 0+218 RT (14.25 CM)

SOUTHBOUND RAMP

REMOVAL AND DISPOSAL OF GUARDRAIL

RAMP "A" 0+074 - 0+312 RT (237M)

STEEL BEAM GUARDRAIL (GALVANIZED)

RAMP "A" 0+086 - 0+312 RT (226M)

MANUFACTURED TERMINAL SECTION (FLARED)

RAMP "A" 0+086 RT (1 EA)

BITUMINOUS CONCRETE CURB, TYPE B

RAMP "A" 0+074 - 0+312 RT (4.46T)

BITUMINOUS CONCRETE GUTTER AND TRAFFIC ISLANDS

RAMP "A" 0+074 - 0+312 RT (5.98T)

AGGREGATE SHOULDERS

RAMP "A" 0+074 - 0+312 RT (13.30 CM)

RAMP "C" 0+127 - 0+311 RT (1.00 CM)

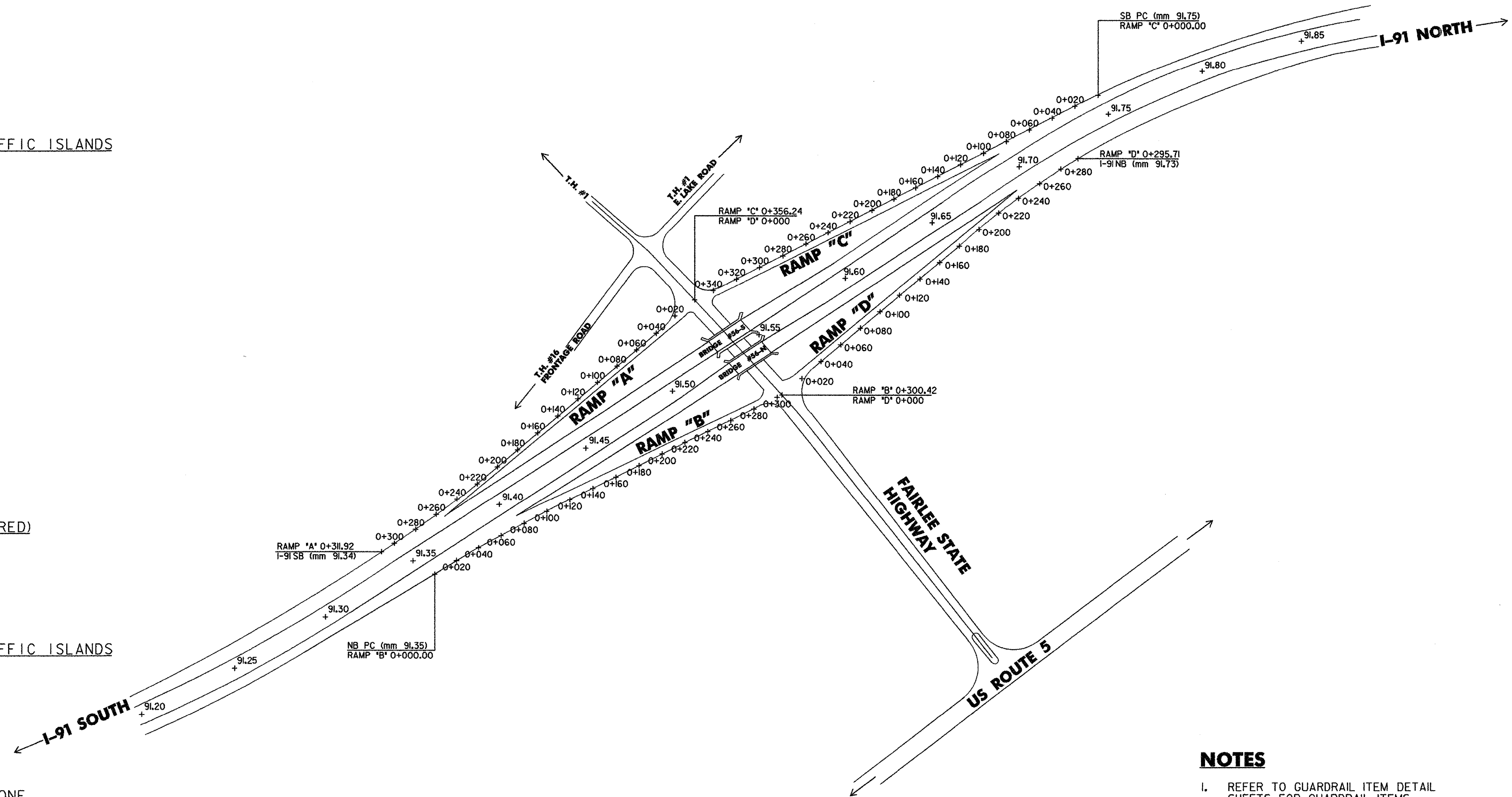
RAMP "C" 0+131 - 0+312 LT (1.00 CM)

SUBBASE OF DENSE GRADED CRUSHED STONE

RAMP "A" 0+074 - 0+312 RT (3 CM)

SEE ITEM DETAIL SUMMARY SHEETS FOR:

- 621.17 CABLE GUARDRAIL
- 621.20 STEEL BEAM GUARDRAIL(GALVANIZED)
- 621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/2.4M POSTS
- 621.505 MANUFACTURED TERMINAL SECTION (FLARED)
- 621.505 MANUFACTURED TERMINAL SECTION (TANGENT)
- 621.52 TRAILING END TERMINAL
- 621.60 ANCHOR FOR STEEL BEAM GUARDRAIL
- 621.65 ANCHOR FOR CABLE RAIL
- 621.65 ANCHOR FOR CABLE RAIL (MOD)



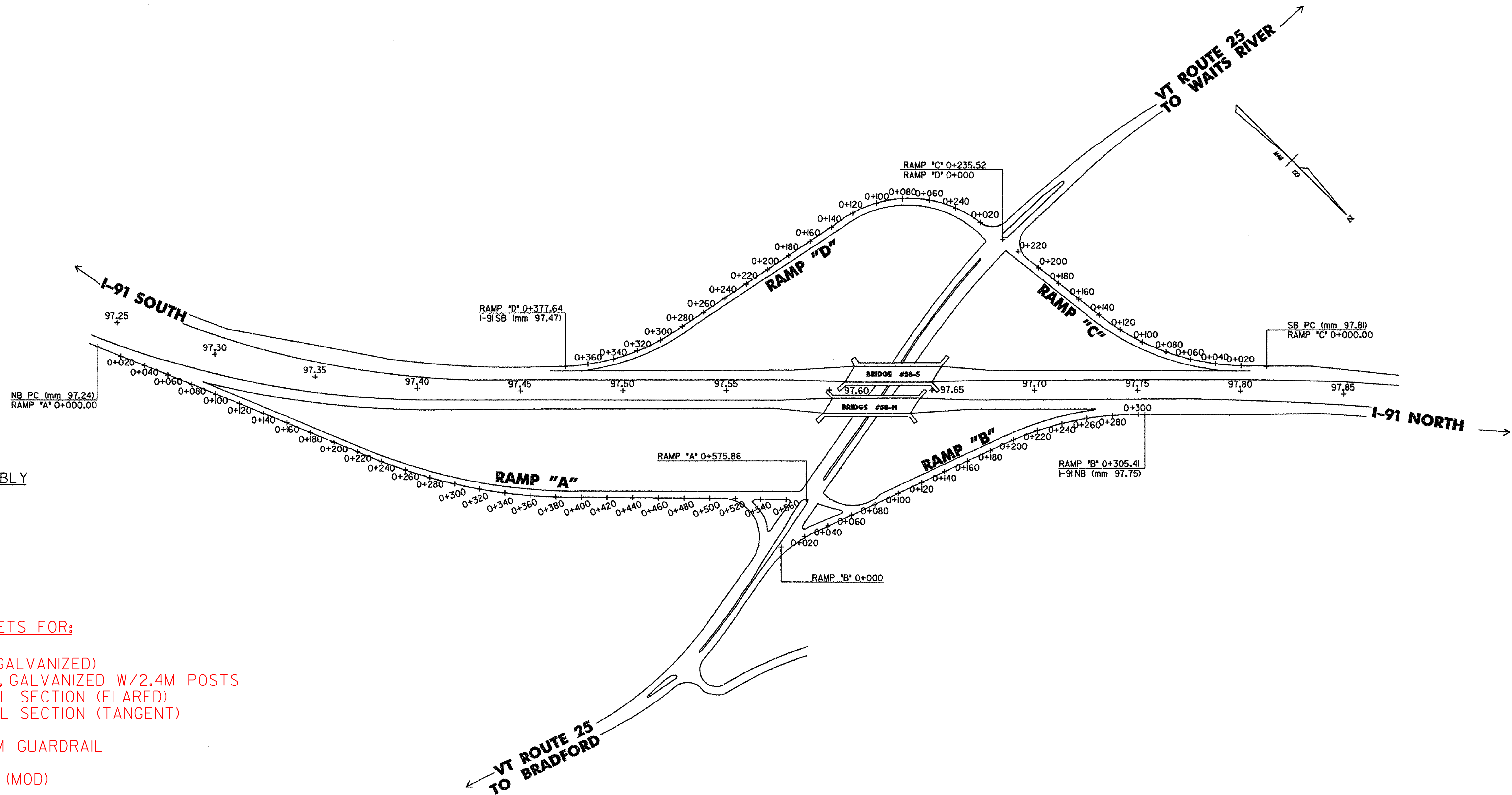
NOTES

1. REFER TO GUARDRAIL ITEM DETAIL SHEETS FOR GUARDRAIL ITEMS.
2. MILE MARKERS INFORMATION ON THIS SHEET IS CONSISTENT WITH VTRANS ROUTE LOGS. FIELD CONDITIONS MAY VARY.

NOT TO SCALE

INTERCHANGE NO. 15 LAYOUT SHEET	 engineering planning management development	PROJECT NAME: HARTFORD - NEWBURY PROJECT NUMBER: IM 091-2(67)
		FILE NAME: ...\\DGN\z042LA01.dgn PROJECT LEADER: C.D. LATHROP DESIGNED BY: C.D. LATHROP
		PLOT DATE: 09/25/2006 DRAWN BY: R. H. BARNES CHECKED BY: E.P. DETRICK SHEET 28 OF 32

I-91 EXIT #16 BRADFORD (VT ROUTE 25) INTERCHANGE



SOUTHBOUND RAMPS

REPLACE GUARDRAIL POST ASSEMBLY

RAMP "D" 0+133 - 0+325 LT (3 EA)
RAMP "D" 0+133 - 0+350 RT (7 EA)

AGGREGATE SHOULDERS

RAMP "D" 0+133 - 0+350 RT (7.00 CM)

SEE ITEM DETAIL SUMMARY SHEETS FOR:

- 621.17 CABLE GUARDRAIL
- 621.20 STEEL BEAM GUARDRAIL(GALVANIZED)
- 621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/2.4M POSTS
- 621.505 MANUFACTURED TERMINAL SECTION (FLARED)
- 621.505 MANUFACTURED TERMINAL SECTION (TANGENT)
- 621.52 TRAILING END TERMINAL
- 621.60 ANCHOR FOR STEEL BEAM GUARDRAIL
- 621.65 ANCHOR FOR CABLE RAIL
- 621.65 ANCHOR FOR CABLE RAIL (MOD)

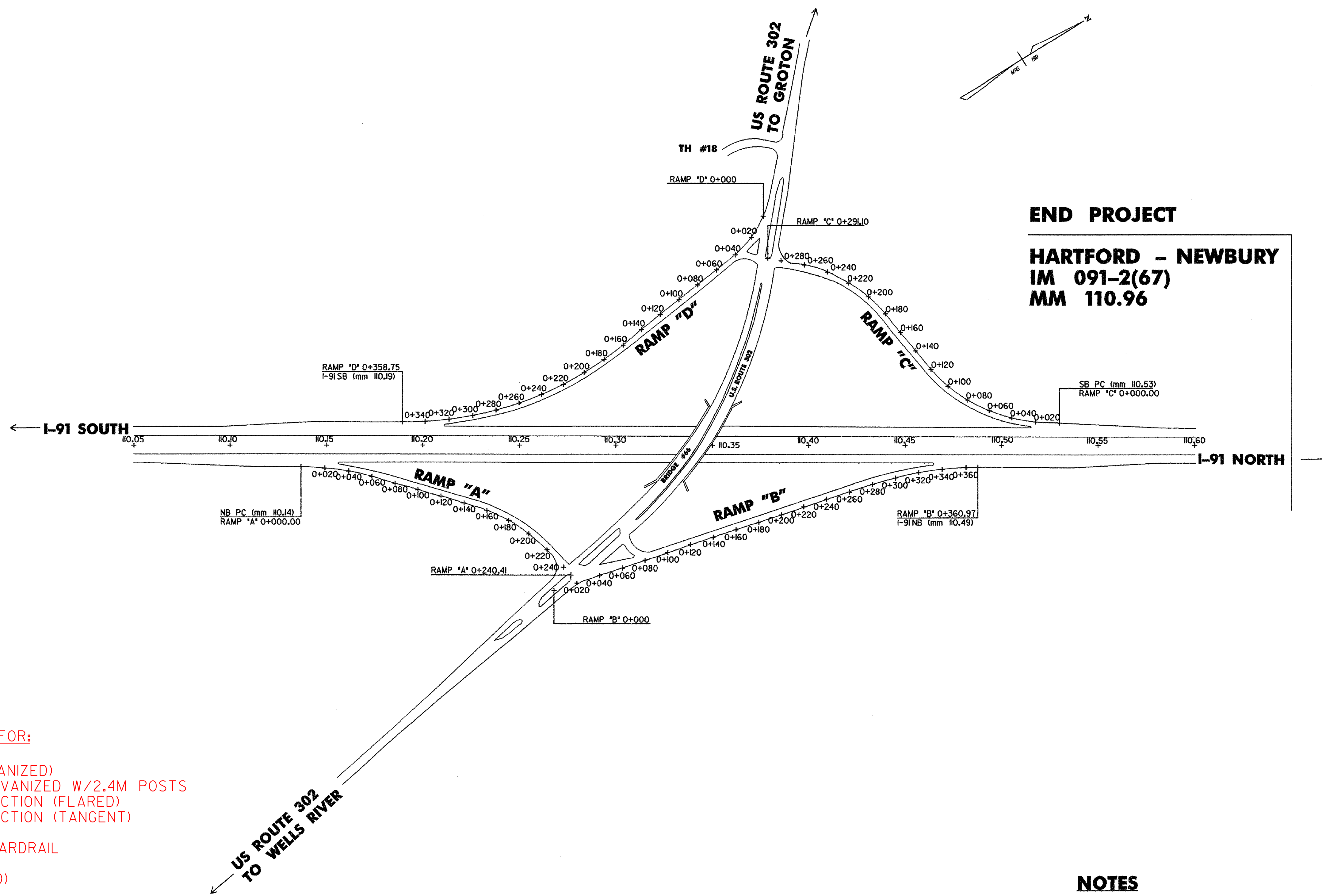
NOTES

1. REFER TO GUARDRAIL ITEM DETAIL SHEETS FOR GUARDRAIL ITEMS.
2. MILE MARKERS INFORMATION ON THIS SHEET IS CONSISTENT WITH VTRANS ROUTE LOGS. FIELD CONDITIONS MAY VARY.

NOT TO SCALE

INTERCHANGE NO. 16 LAYOUT SHEET	<p>engineering planning management development</p>	PROJECT NAME: HARTFORD - NEWBURY PROJECT NUMBER: IM 091-2(67)
		FILE NAME: ...\\DGN\z\042LA01.dgn PROJECT LEADER: C.D. LATHROP DESIGNED BY: C.D. LATHROP

I-91 EXIT #17 WELLS RIVER (US ROUTE 302) INTERCHANGE



END PROJECT
HARTFORD - NEWBURY
IM 091-2(67)
MM 110.96

SOUTHBOUND RAMPS

AGGREGATE SHOULDERS

RAMP "C" 0+000 - 0+291 RT< (5.00 CM)
RAMP "D" 0+000 - 0+359 RT< (7.00 CM)

SEE ITEM DETAIL SUMMARY SHEETS FOR:

- 621.17 CABLE GUARDRAIL
- 621.20 STEEL BEAM GUARDRAIL(GALVANIZED)
- 621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/2.4M POSTS
- 621.505 MANUFACTURED TERMINAL SECTION (FLARED)
- 621.505 MANUFACTURED TERMINAL SECTION (TANGENT)
- 621.52 TRAILING END TERMINAL
- 621.60 ANCHOR FOR STEEL BEAM GUARDRAIL
- 621.65 ANCHOR FOR CABLE RAIL
- 621.65 ANCHOR FOR CABLE RAIL (MOD)

NOTES

1. REFER TO GUARDRAIL ITEM DETAIL SHEETS FOR GUARDRAIL ITEMS.
2. MILE MARKERS INFORMATION ON THIS SHEET IS CONSISTENT WITH VTRANS ROUTE LOGS. FIELD CONDITIONS MAY VARY.

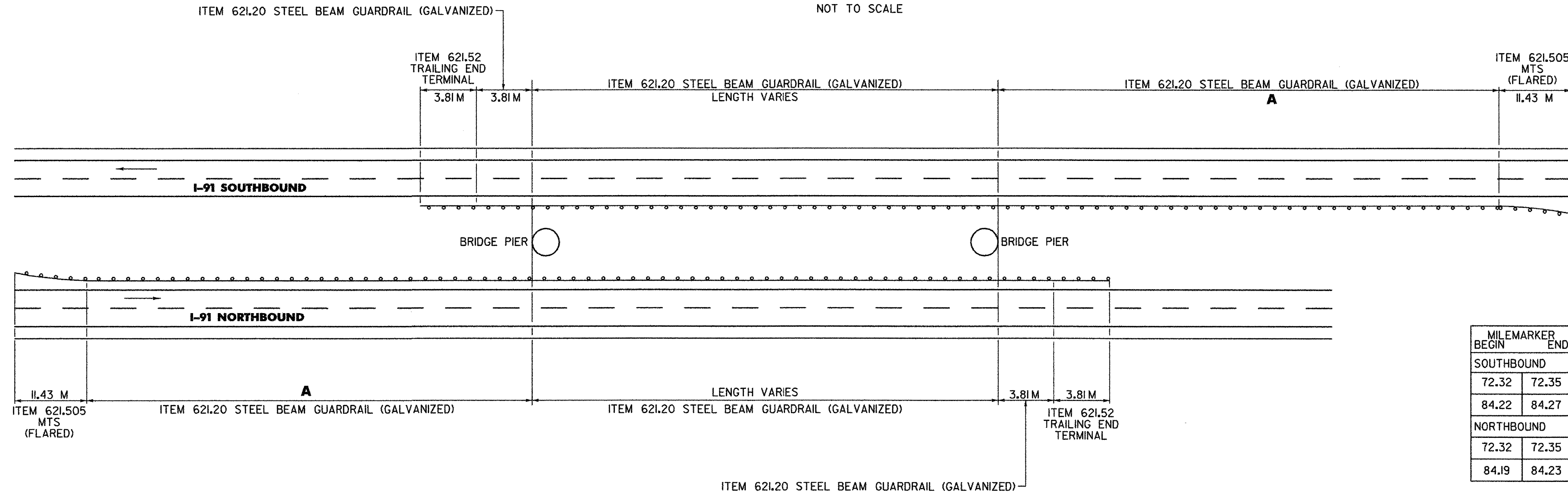
NOT TO SCALE

INTERCHANGE NO. 17 LAYOUT SHEET		PROJECT NAME: HARTFORD - NEWBURY	PLOT DATE: 09/25/2006
		PROJECT NUMBER: IM 091-2(67)	DRAWN BY: R. H. BARNES
	engineering planning management development	FILE NAME: ...\\DGN\z\042LA01.dgn	CHECKED BY: E.P. DETRICK
		DESIGNED BY: C.D. LATHROP	SHEET 30 OF 32

...\\DGN\z\042LA01.dgn 09/25/2006 12:45:59 PM

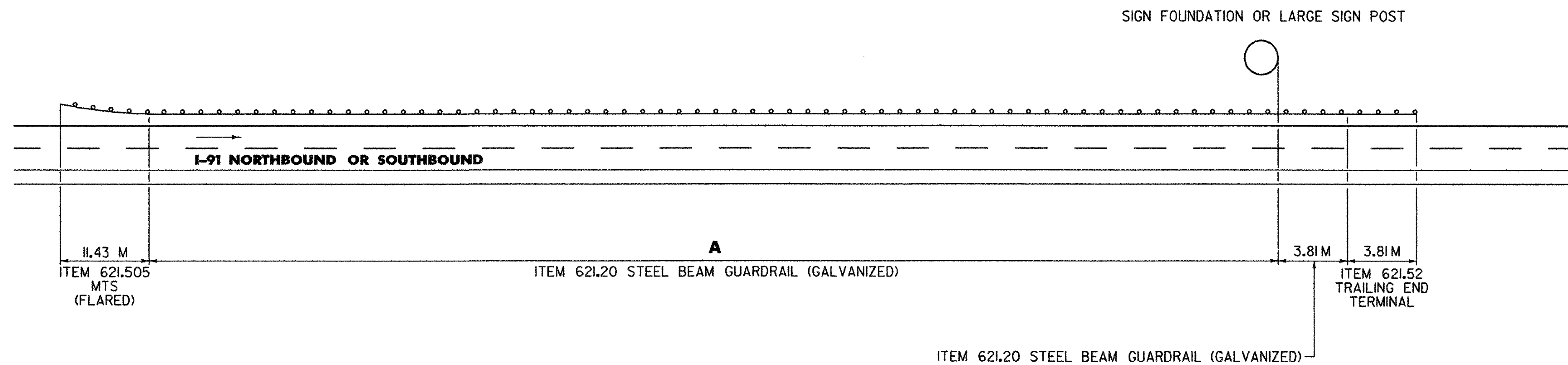
GUARDRAIL LOCATIONS—OVERPASSES

NOT TO SCALE



GUARDRAIL LOCATIONS—SIGN FOUNDATION

NOT TO SCALE



MILEMARKER BEGIN	MILEMARKER END	LOC.	A
NORTHBOUND			
69.96	69.98	MED	57 M
SOUTHBOUND			
70.24	70.29	MED	84 M
70.03	70.04	MED	82 M

SEE ITEM DETAIL SUMMARY SHEETS FOR:

- 621.17 CABLE GUARDRAIL
- 621.20 STEEL BEAM GUARDRAIL (GALVANIZED)
- 621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/2.4M POSTS
- 621.505 MANUFACTURED TERMINAL SECTION (FLARED)
- 621.505 MANUFACTURED TERMINAL SECTION (TANGENT)
- 621.52 TRAILING END TERMINAL
- 621.60 ANCHOR FOR STEEL BEAM GUARDRAIL
- 621.65 ANCHOR FOR CABLE RAIL
- 621.65 ANCHOR FOR CABLE RAIL (MOD)

GUARDRAIL TREATMENT AT BRIDGE PIERS/ OVERHEAD SIGNS

engineering planning management development


PROJECT NAME: HARTFORD - NEWBURY	
PROJECT NUMBER: IM 091-2(67)	
FILE NAME: ... \DGN\z042GRTREAT.dgn	PLOT DATE: 09/25/2006
PROJECT LEADER: C.D. LATHROP	DRAWN BY: R.H. BARNES
DESIGNED BY: C.D. LATHROP	CHECKED BY: E.P. DETRICK
	SHEET 31 OF 32

... \DGN\z042GRTREAT.dgn 09/25/2006 02:16:13 PM

TRAFFIC CONTROL NOTES

1. TRAFFIC CONTROL FOR THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT VTRANS E-SERIES STANDARDS AND THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND ITS LATEST REVISIONS OR AS DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION. THE COST OF PREPARING THIS PLAN (AND MAKING CHANGES IF NECESSARY) SHALL NOT BE PAID SEPARATELY BUT SHALL BE INCIDENTAL TO ITEM 641.10, "TRAFFIC CONTROL".
3. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY CONSTRUCTION SIGNS APPLICABLE TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED INCLUDING, BUT NOT LIMITED TO, SIGNAGE FOR EXPECTED LANE CLOSURES AND WORK ZONE SPEED REDUCTIONS. THE SIGNS SHALL BE IN COMPLIANCE WITH VTRANS STANDARDS AND THE MUTCD. PAYMENT SHALL NOT BE MADE SEPARATELY BUT SHALL BE INCIDENTAL TO ITEM 641.10, "TRAFFIC CONTROL".
4. A PORTABLE CHANGEABLE MESSAGE SIGN SHALL BE PLACED AT THE BEGINNING (MM 69.96) OF THE PROJECT ORIENTED FOR VIEW BY NORTHBOUND TRAFFIC AND AT THE END (MM 110.96) OF THE PROJECT FOR VIEW BY SOUTHBOUND TRAFFIC. THE MESSAGE SIGNS SHALL BE PLACED ONE WEEK PRIOR TO ANY CONSTRUCTION ACTIVITY TO WARN THE TRAVELING PUBLIC OF THE PROJECT. THE MESSAGE BOARDS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. PAYMENT FOR THIS WORK SHALL BE MADE UNDER ITEM 641.15 "PORTABLE CHANGEABLE MESSAGE SIGN."
5. THE CONTRACTOR SHALL USE A SIGN PACKAGE FOR ALL CONSTRUCTION ACTIVITIES. THE SIGN PACKAGE AND OTHER APPLICABLE TRAFFIC CONTROL DEVICES SHALL BE CONSTRUCTED RELATIVE TO THE LOCATION WHERE ACTIVE CONSTRUCTION ACTIVITIES ARE OCCURRING. THE CONTRACTOR SHALL PROVIDE FOR ADEQUATE TRAFFIC CONTROL WHEN WORK IS OCCURRING ON OR NEAR ENTRANCE AND EXIT RAMP. ALL WORK ASSOCIATED WITH SIGNAGE AND TRAFFIC CONTROL SHALL BE PAID FOR UNDER ITEM 641.10 "TRAFFIC CONTROL."
6. ADDITIONAL RAMP SIGNING MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
7. THE BID PRICE FOR ITEM 641.10, "TRAFFIC CONTROL" SHALL INCLUDE ALL SIGNAGE NECESSARY FOR CONSTRUCTION, PORTABLE ARROW BOARDS, BARRIERS, BARRELS, CONES, BARRICADES, TEMPORARY REGULATORY AND WARNING SIGNS, AND POSTS AS DETAILED IN VTRANS STANDARDS. ALL ADJUSTING, RELOCATING, MAINTAINING AND REMOVING OF THESE DEVICES AS DIRECTED BY THE ENGINEER SHALL ALSO BE INCLUDED.
8. INITIATION OF TRAFFIC CONTROL MEASURES WILL NOT BE PERMITTED BETWEEN THE DATES OF NOVEMBER 15 AND APRIL 15 UNLESS OTHERWISE APPROVED BY THE ENGINEER. ONCE SEMIPERMANENT TRAFFIC CONTROL DEVICES HAVE BEEN INSTALLED, THE CONTRACTOR SHALL BEGIN RELATED RECONSTRUCTION WORK IMMEDIATELY AND PROCEED IN A TIMELY MANNER THROUGH TO COMPLETION IN ORDER TO MINIMIZE HAZARD AND INCONVENIENCE TO THE TRAVELING PUBLIC.
9. ALL SIGNS, BARRICADES AND OTHER TRAFFIC CONTROL DEVICES SHALL BE CLEANED WEEKLY OR AS DIRECTED BY THE ENGINEER. EXISTING PERMANENT SIGNS THAT CONTRADICT TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE REMOVED AND REPLACED OR COVERED FOR THE PERIOD OF TIME THAT THE TRAFFIC CONTROL PLAN IS IMPLEMENTED. THE COST FOR THIS WORK SHALL PAID FOR UNDER ITEM 641.10 "TRAFFIC CONTROL."
10. THE CONTRACTOR IS NOTIFIED THAT ALL ROADWAYS INCLUDED IN AND ASSOCIATED WITH THIS PROJECT ARE SUBJECT TO OCCASIONAL USE AND TRAVEL BY EMERGENCY RESPONSE VEHICLES. THE CONTRACTOR SHALL MAKE AND IMPLEMENT PLANS AND PROCEDURES DESIGNED TO ENSURE SWIFT AND UNIMPEDED TRAVEL OF EMERGENCY RESPONSE VEHICLES THROUGH CONSTRUCTION ZONES. ANY COSTS ASSOCIATED WITH SUCH PLANS AND PROCEDURES SHALL BE INCIDENTAL TO ITEM 641.10 "TRAFFIC CONTROL."

NOTE: ALL DIMENSIONS IN MILLIMETERS (mm), EXCEPT WHERE NOTED.

TRAFFIC CONTROL NOTES	 <small>engineering planning management development</small>	PROJECT NAME: HARTFORD - NEWBURY
		PROJECT NUMBER: IM 091-2(67)
		FILE NAME: ...\\DGN\z\042GN01.dgn
		PROJECT LEADER: C.D. LATHROP
		DESIGNED BY: A.P. GUYETTE
		PLOT DATE: 09/25/2006
		DRAWN BY: A.P. GUYETTE
		CHECKED BY: E.P. DETRICK
		SHEET 32 OF 32