

STATE OF VERMONT
AGENCY OF TRANSPORTATION

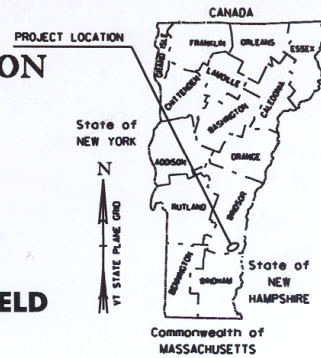


PROPOSED IMPROVEMENT
TOWNS OF CHESTER AND SPRINGFIELD
COUNTY OF WINDSOR
VERMONT ROUTE 11

BEGINNING AT MM 5,222 AT THE INTERSECTION OF VT ROUTE 11 AND
VT ROUTE 103, IN THE TOWN OF CHESTER AND EXTENDING 6.643 MILES
EAST TO MM 3,528 IN THE TOWN OF SPRINGFIELD.

LENGTH OF PROJECT = 6.643 MILES
LENGTH OF ROADWAY = 6.643 MILES

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES COLD PLANING, RESURFACING OF
THE EXISTING HIGHWAY WITH A LEVELING COURSE, WEARING COURSE, NEW PAVEMENT
MARKINGS AND INCIDENTAL ITEMS AS SHOWN IN THE PROJECT QUANTITIES.



RECORD PLANS	
CONTRACTOR:	THE LANE CONSTRUCTION CORP. MERIDAN, CT
RESIDENT ENGINEER:	GERALD COLBY
CONSTRUCTION BEGAN:	SEPTEMBER 3, 2008
CONSTRUCTION COMPLETED:	OCTOBER 17, 2008
RECORD PLANS BY:	G. COLBY & C. PIERCE
I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.	
BY:	<i>[Signature]</i> , RESIDENT ENGINEER
DATE:	4/30/09
NOTE: ANY FURTHER INFORMATION CONCERNING FINAL QUANTITIES, AMOUNTS OR OTHER DETAILS RELATIVE TO THIS PROJECT MAY BE FOUND IN ELECTRONIC ARCHIVE AT VAOT CENTRAL FILES.	

SUPERPAVE BITUMINOUS CONCRETE PAVEMENT MIXTURE DESIGN CRITERIA	
DESIGN LIFE/DESIGN LANE ESAL	1,460,000
DESIGN NUMBER OF GYRATIONS	65
PERFORMANCE GRADED ASPHALT BINDER	58-28

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 2006, AS APPROVED BY THE
FEDERAL HIGHWAY ADMINISTRATION ON JANUARY 15, 2006
FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT
REVISIONS AND SUCH REVISED SPECIFICATIONS AND
SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

DISTRICT PLANS

DIRECTOR OF PROGRAM DEVELOPMENT	
APPROVED _____	DATE _____
PROJECT MANAGER: TED DOMEY	
PROJECT CHESTER - SPRINGFIELD ST 2612(1)	
SHEET <input type="checkbox"/> OF <input type="checkbox"/> SHEETS	

TRAFFIC DATA

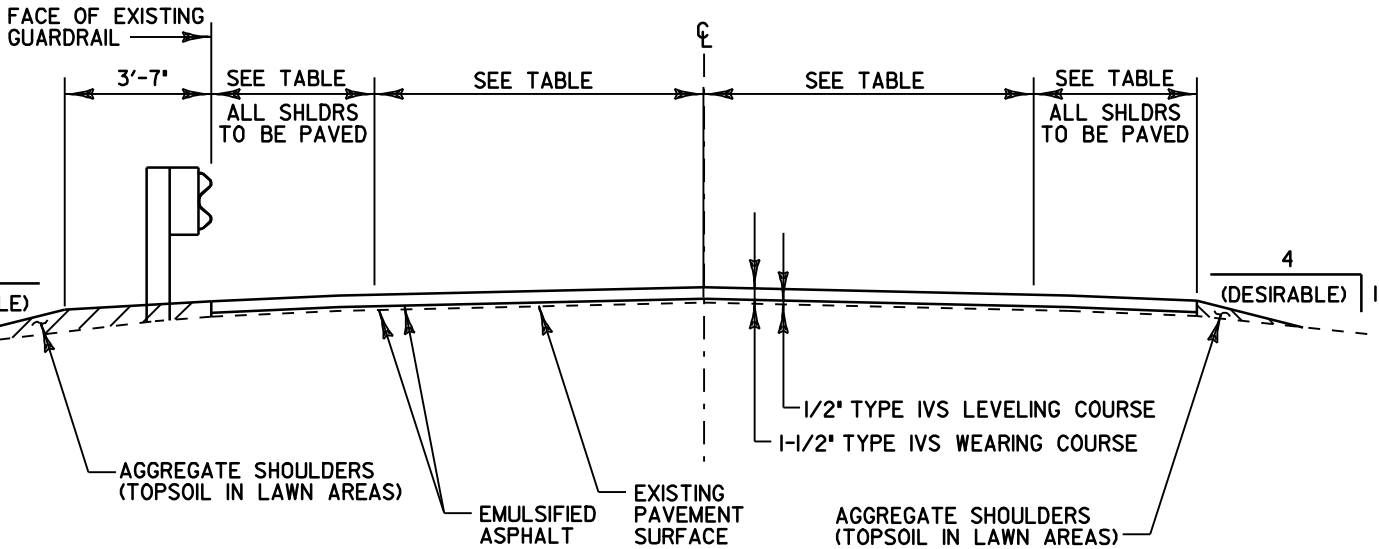
VT ROUTE 11	AADT		ESALS	
	2008	2018	2008-2018	2008-2028
SECTION #1 (BEGIN PROJECT TO MM 1,457)	4100	4600	906,000	2,108,000
SECTION #2 (MM 1,457 TO MM 2,666)	5300	5800	842,000	1,936,000
SECTION #2 (MM 2,666 TO END PROJECT)	5800	6400	1,125,000	2,920,000

INDEX OF SHEETS

- 1 TITLE SHEET
- 2 INDEX OF SHEETS & PROJECT TYPICAL SHEET
- 3 PROJECT TYPICAL SECTIONS SHEET #2
- 4 RAILROAD DETAIL SHEET
- 5 MISCELLANEOUS DETAILS SHEET
- 6-7 BRIDGE DETAIL SHEETS
- 8-9 QUANTITY SHEETS
- 10-11 PROJECT LAYOUT SHEETS
- 12 CONSTRUCTION APPROACH SIGNING SHEET

STANDARDS

D-15	PRECAST REINFORCED CONC. MH-GRATES (BICYCLE SAFE) CAST IRON GRATE WITH FRAME, TYPE D CAST IRON GRATE WITH FRAME, TYPE E	06/01/94
E-100	CONSTRUCTION APPROACH SIGNS	01/02/04
E-100A	SIDE ROAD CONSTRUCTION - APPROACH SIGNS	01/02/04
E-101	CONSTRUCTION SIGN DETAILS	05/30/03
E-102	CONSTRUCTION SIGN DETAILS	06/30/03
E-102A	CONSTRUCTION SIGN DETAILS	05/01/04
E-103	MAINLINE TRAFFIC CONTROL DIVIDED HIGHWAY ONE LANE CLOSED	03/01/04
E-106	TRAFFIC CONTROL - MISCELLANEOUS DETAILS	03/01/04
E-121	STANDARD SIGN PLACEMENT - CONVENTIONAL ROAD	08/08/95
E-190	RAILROAD CROSSING SIGNS AND PAVEMENT MARKINGS	06/30/03
E-193	PAVEMENT MARKING DETAILS	08/18/95



COLD PLANE SECTIONS

OVERLAY TYPICAL SECTION

NOT TO SCALE

- MM 5.222 TO MM 5.292, FULL WIDTH (BEGIN PROJECT & BR #48)
- MM 5.521 TO MM 5.589, FULL WIDTH (RR & BR #49)
- ~~MM 6.397 TO MM 6.439, FULL WIDTH (BR #50)~~
- ~~MM 1.859 TO MM 1.978, FULL WIDTH (BR #55)~~
- ~~MM 1.916 TO MM 1.935, FULL WIDTH (BR #55)~~
- ~~MM 2.514 TO MM 2.556, FULL WIDTH (BR #56)~~
- ~~MM 2.662 TO MM 3.528, RT SHOULDER (CURB)~~
- ~~MM 2.717 TO MM 2.761, FULL WIDTH (BR #57)~~
- ~~MM 2.957 TO MM 3.418, LT SHOULDER (CURB)~~
- ~~MM 3.418 TO MM 3.462, FULL WIDTH (BR #60)~~
- MM 3.462 TO MM 3.528, LT SHOULDER (CURB)
- MM 3.509 TO MM 3.528, FULL WIDTH (END PROJECT)

CHESTER
MM 5.222 TO MM 8.337
8.258

SPRINGFIELD
MM 0.000 TO MM 3.528

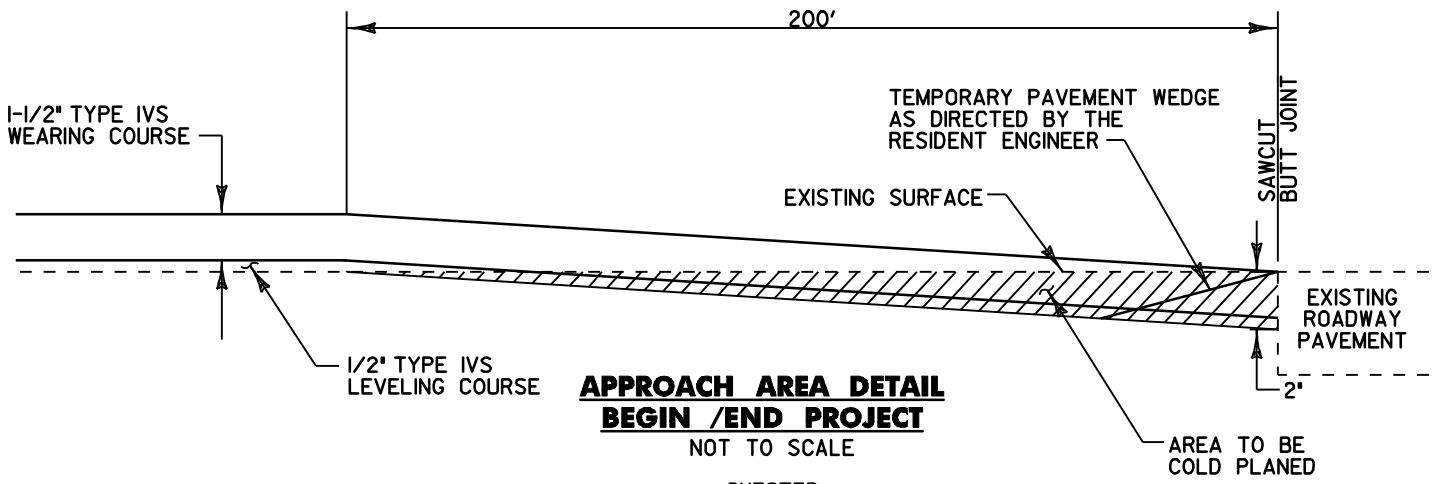
SEE BOTTOM OF QUANTITY SHEET #1
SHEET 8 OF 12. FOR A TABLE OF
FAILING AIR VOID TESTS

PROJECT PAVING LIMITS (SEE COMPS BOOK)

TOWN	BEGIN STATION (MM)	END STATION (MM)	LANE TYP	EXIST SHLDR WIDTH - LT	EXIST SHLDR WIDTH - RT	EXIST PAVE WIDTH	CONDITION
CHESTER	5.222	5.360	12'	1'	1'	26'	EDGE-OF-PAVE TO EDGE-OF-PAVE
	5.360	5.650	12'	2'	2'	28'	EDGE-OF-PAVE TO EDGE-OF-PAVE
	5.650	5.820	12'	2'	4'	30'	FACE-OF-PAVE TO FACE-OF-RAIL
	5.820	5.900	12'	9'	9'	42'	EDGE-OF-PAVE TO EDGE-OF-PAVE
	5.900	6.500	12'	8'	9'	41'	FACE-OF-RAIL TO EDGE-OF-PAVE
	6.500	7.600	12'	8'	8'	40'	EDGE-OF-PAVE TO EDGE-OF-PAVE
	7.600	8.337	12'	9'	9'	42'	EDGE-OF-PAVE TO EDGE-OF-PAVE
SPRINGFIELD	0.000	0.951	12'	7'	10'	41'	FACE-OF-RAIL TO EDGE-OF-PAVE
	0.951	1.215	12'	8.5'	8.5'	41'	EDGE-OF-PAVE TO EDGE-OF-PAVE
	1.215	1.690	12'	8'	8'	40'	FACE-OF-RAIL TO FACE-OF-RAIL
	1.690	2.200	12'	8'	8'	40'	EDGE-OF-PAVE TO FACE-OF-RAIL
	2.200	2.600	12'	8'	9'	41'	FACE-OF-RAIL TO EDGE-OF-PAVE
	2.600	2.920	12'	8'	8'	40'	FACE-OF-CURB TO EDGE-OF-PAVE
	2.920	3.120	12'	8'	8'	40'	FACE-OF-CURB TO FACE-OF-CURB
	3.120	3.320	12'	8'	8'	40'	EDGE-OF-PAVE TO FACE-OF-CURB
	3.320	3.528	12'	9.5'	9.5'	43'	FACE-OF-CURB TO FACE-OF-CURB

INDEX OF SHEETS & PROJECT TYPICAL

PROJECT NAME:	CHESTER - SPRINGFIELD
PROJECT NUMBER:	ST 2612 (I)
FILE NAME:	...06C054\...06C054.dgn
PROJECT MANAGER:	T. DOMEY
DESIGNED BY:	HUNT
IPARM FILE NAME:	06C054\typl.I
PLOT DATE:	18-MAY-2009 10:4
DRAWN BY:	HUNT
CHECKED BY:	PAVT MGMT
SHEET	2 OF 12

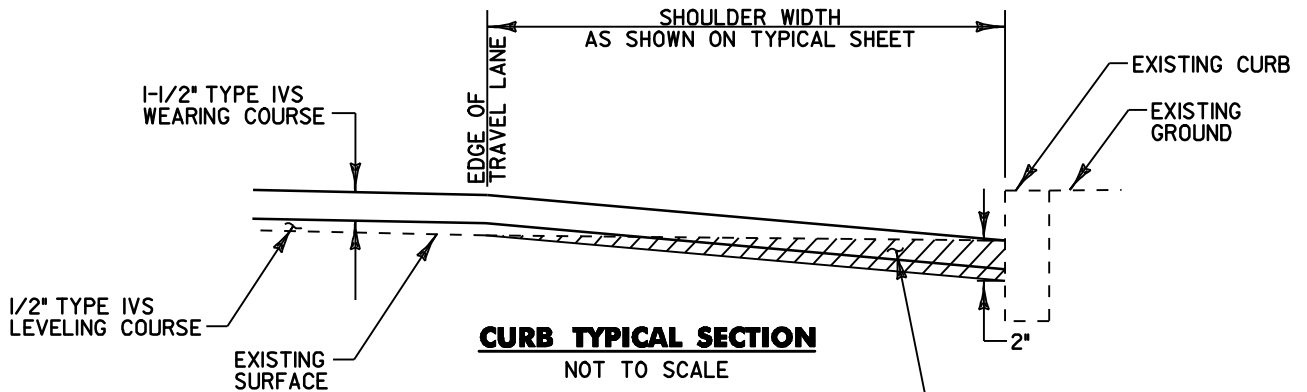


**APPROACH AREA DETAIL
BEGIN /END PROJECT**

NOT TO SCALE

- CHESTER**
 MM 5.222 TO MM 5.292
 MM 5.435 TO MM 5.454
 MM 5.464 TO MM 5.483
 MM 5.533 TO MM 5.589
 MM 6.397 TO MM 6.439

- SPRINGFIELD**
 MM 1.859 TO MM 1.878
 MM 1.916 TO MM 1.935
 MM 2.514 TO MM 2.556
 MM 2.717 TO MM 2.761
 MM 3.418 TO MM 3.462
 MM 3.509 TO MM 3.528

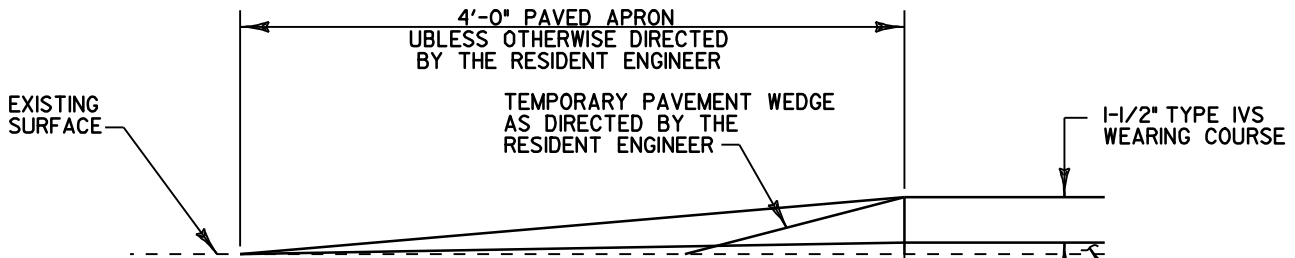


CURB TYPICAL SECTION

NOT TO SCALE

SPRINGFIELD

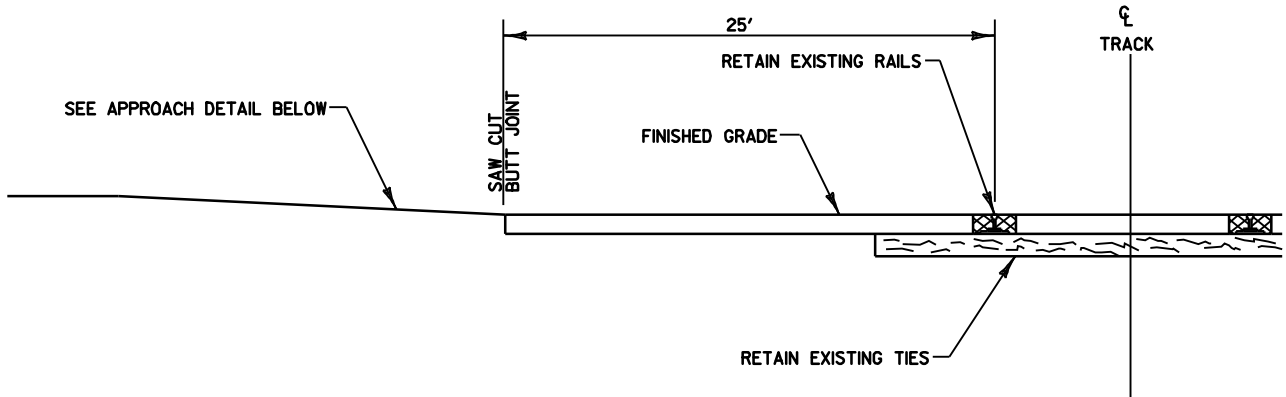
- MM 2.662 TO MM 3.528, RT
 MM 2.957 TO MM 3.148, LT
 MM 3.462 TO MM 3.528, LT



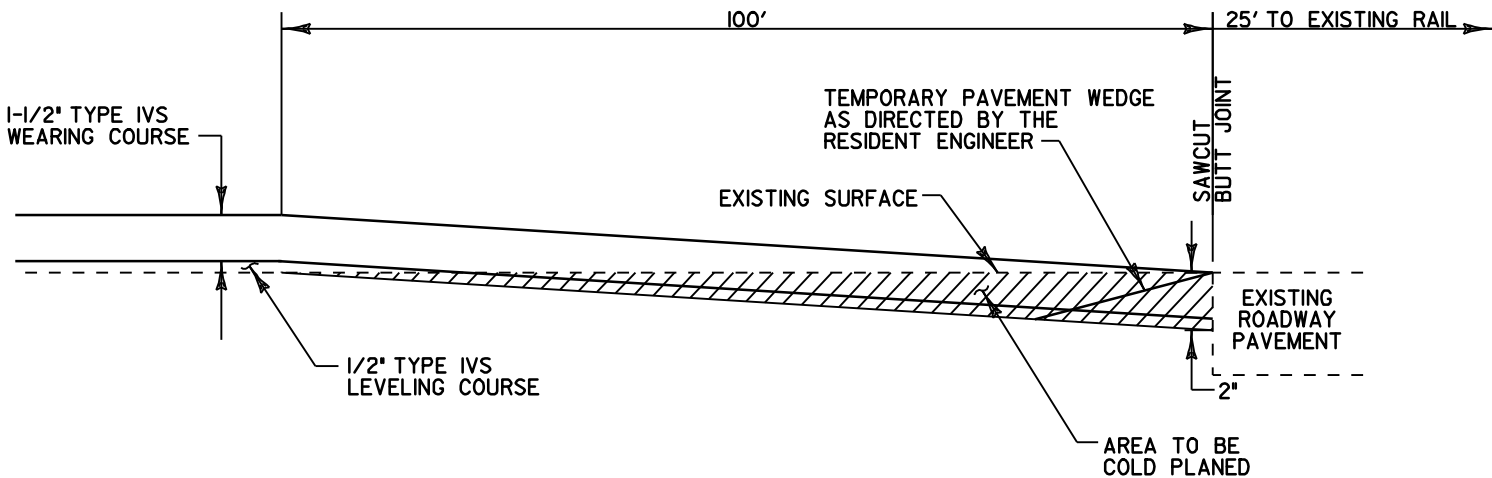
**TRANSITION AREAS FOR
SIDE ROADS AND DRIVEWAYS**

NOT TO SCALE

PROJECT TYPICAL SECTIONS SHEET #2	PROJECT NAME:	CHESTER - SPRINGFIELD
	PROJECT NUMBER:	ST 2612 (I)
	FILE NAME:	...06C054\...06C054.dgn
	PROJECT MANAGER:	T. DOMEY
	DESIGNED BY:	HUNT
	IPARM FILE NAME:	06C054typ2.i
	PLOT DATE:	18-MAY-2009 10:4
	DRAWN BY:	HUNT
	CHECKED BY:	PAVT MGMT
		SHEET 3 OF 12



PAVED RAIL HIGHWAY CROSSING
NOT TO SCALE



APPROACH AREA DETAIL
BEGIN /END RAILROAD
NOT TO SCALE

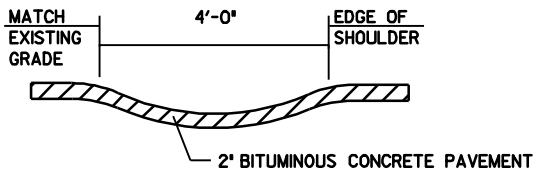
NOTES:
1. NO WORK SHALL BE DONE WITHIN 25 FEET OF EACH RAIL.

2. IN AREAS WHERE COLD PLANING OCCURS, A TEMPORARY RAILROAD CROSSING SYMBOL AND STOP BAR SHALL BE PAINTED AS SOON AS COLD PLANING EQUIPMENT IS OUT OF THE WAY. THE LEVELING COURSE AND WEARING COURSE SHALL ALSO BE PAINTED WITH TEMPORARY PAVEMENT MARKS AS SOON AS THE PAYER IS OUT OF THE WAY AND THE MAT COOLS TO AN APPROPRIATE DEGREE WHEREAS PAVEMENT MARKINGS CAN BE PLACED.

RAILROAD DETAILS	PROJECT NAME:	CHESTER - SPRINGFIELD
	PROJECT NUMBER:	ST 2612 (I)
	FILE NAME:	...06C054\...06C054.dgn
	IPARM FILE NAME:	06C054rr1.l
	PLOT DATE:	18-MAY-2009 10:4
	PROJECT MANAGER:	T. DOMEY
	DESIGNED BY:	HUNT
	DRAWN BY:	HUNT
	CHECKED BY:	PAVT MGMT
	SHEET	4 OF 12

NOTES:

1. THE PAVEMENT WEARING COURSE SHALL BE TYPE IVS, THE LEVELING COURSE SHALL BE TYPE IVS, ITEM 490.30, SUPERPAVE BITUMINOUS CONCRETE PAVEMENT, AS SHOWN ON THE TYPICALS. ALL LIQUID ASPHALT USED IN SUPERPAVE BITUMINOUS CONCRETE PAVEMENT SHALL BE PG 58-28.
2. EMULSIFIED ASPHALT SHALL BE APPLIED ON ALL EXISTING PAVEMENT SURFACES, BETWEEN ALL COURSES OF PAVEMENT, AND ALL COLD PLANED SURFACES AT THE RATE OF 0.025 GAL/SY OR AS DIRECTED BY THE RESIDENT ENGINEER.
3. SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TOLERANCE = 1/4 INCH +/- (TOTAL THICKNESS EXCLUDING LEVEL COURSE).
4. COLD PLANING SHALL BE COMPLETED ACCORDING TO THE TYPICAL OR AS OTHERWISE NOTED ON THE PLANS. A FULL-DEPTH BUTT JOINT SHALL BE CONSTRUCTED AT THE PROJECT BEGIN/END, AND AT RAILROAD APPROACHES OR AS DIRECTED BY THE RESIDENT ENGINEER, AND SHALL BE PAID UNDER ITEM 210.10 COLD PLANING, BITUMINOUS PAVEMENT.
5. ALL DRIVES, TOWN HIGHWAYS AND MAILBOX TURNOUTS SHALL RECEIVE A 4'-0" PAVED APRON OR AS DIRECTED BY THE RESIDENT ENGINEER. ANY AND ALL REQUIRED EXCAVATION IN DRIVE AREAS SHALL BE AS DIRECTED BY THE RESIDENT ENGINEER AND WILL BE PAID FOR UNDER THE APPLICABLE RENTAL ITEM(S). IF REQUIRED, A NEW DRIVEWAY SUBBASE SHALL BE CONSTRUCTED AND WILL BE PAID FOR UNDER ITEM 301.28, SUBBASE OF CRUSHED GRAVEL (FINE GRADED). THE NEW BITUMINOUS SURFACE SHALL BE CONSTRUCTED AS DIRECTED AND WILL BE PAID FOR UNDER ITEM 490.30, SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (PG 58-28).
6. ALL BITUMINOUS CONCRETE PAVEMENT WORK, WHICH COULD INCLUDE SOME HAND-WORK (SUCH AS DRIVE AND SIDE ROAD APPROACHES, AROUND DRAINAGE/UTILITY STRUCTURES AND AROUND CURBED AREAS), SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR ITEM 490.30, SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (PG 58-28).
7. GRASS GROWING ADJACENT TO PAVEMENT, OR THROUGH CRACKS IN THE PAVEMENT, WHICH MAY HAMPER THE PLACEMENT OF NEW SUPERPAVE BITUMINOUS CONCRETE, SHALL BE REMOVED BY THE CONTRACTOR, AS DIRECTED BY THE ENGINEER. PAYMENT FOR THIS WILL BE CONSIDERED INCIDENTAL TO ITEM 490.30, SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (PG 58-28).
8. COMPACTING, GRADING, AND CLEAN UP OF ITEM 301.28 SUBBASE OF CRUSHED GRAVEL, FINE GRADED IS TO BE INCLUDED IN THE CONTRACT UNIT PRICE OF ITEM 301.28.
9. ITEMS 604.412, 604.415, 604.418 AND 629.20 ARE ESTIMATED QUANTITIES AND SHALL BE PERFORMED AT LOCATIONS INDICATED ON THE PLANS AND AS DIRECTED BY THE RESIDENT ENGINEER. ALL DI'S, MANHOLES AND WATER VALVES SHALL BE RAISED OR REHABILITATED SUCH THAT THE NEW FINISH GRADE ELEVATION IS LEVEL WITH THE SURROUNDING TERRAIN.
10. ANY WORK DONE BY DISTRICT FORCES SHALL BE COORDINATED WITH THE RESIDENT ENGINEER AND THE CONTRACTOR.



BITUMINOUS CONCRETE GUTTER DETAIL

NOT TO SCALE

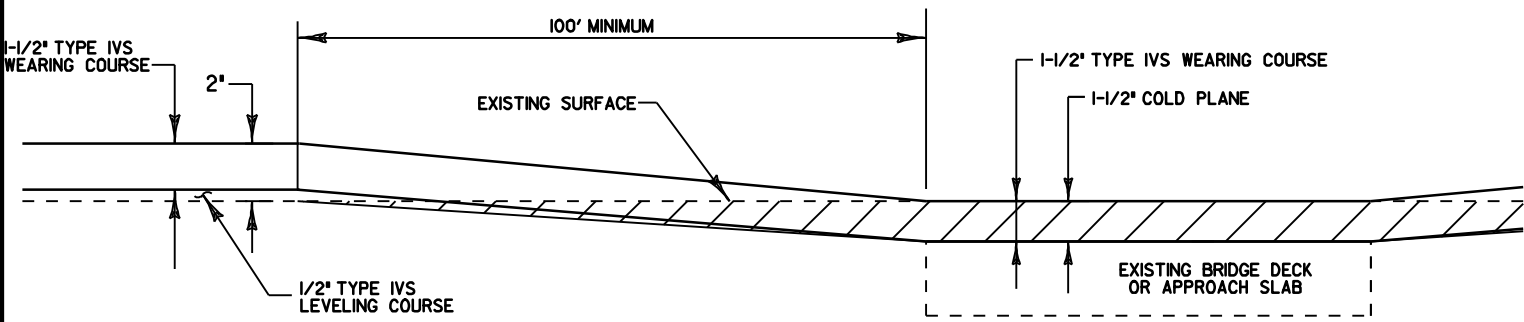
NOTES:

1. EXISTING BITUMINOUS CONCRETE GUTTERS SHALL BE REMOVED WHERE INDICATED BELOW, OR AS DIRECTED BY THE RESIDENT ENGINEER.
2. THE BED UPON WHICH THE BITUMINOUS CONCRETE GUTTER WILL BE PLACED SHALL BE COMPACTED TO THE LINE, GRADE AND SLOPE AS DIRECTED BY THE RESIDENT ENGINEER.
3. THE BITUMINOUS CONCRETE PAVEMENT SHALL BE LAID IN TWO COURSES, EACH ROLLED WITH A 150 POUND ROLLER.
4. THIS WORK IS TO BE PAID FOR UNDER ITEM 616.47, "BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS". ANY SUBBASE MATERIAL USED SHALL BE PAID UNDER CONTRACT ITEM 301.28, SUBBASE OF CRUSHED GRAVEL, FINE GRADED.

5. PROJECT LOCATIONS:

CHESTER	SPRINGFIELD
5.222 TO 5.244 RT	1.782 RT LT
7.01 RT	1.45 RT
7.14 RT	0.06 LT
8.204 RT	
8.860 RT	
6.95 RT	
6.84 RT	
6.42 LT	
8.04 RT	
5.360 LT/RT	

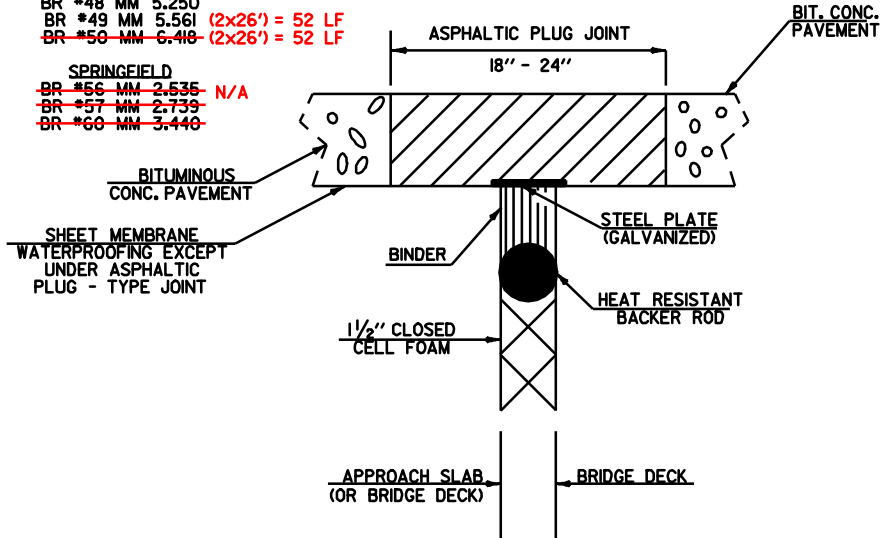
MISC DETAILS	PROJECT NAME: CHESTER - SPRINGFIELD
	PROJECT NUMBER: ST 2612 (I)
	FILE NAME: ...06C054\...06C054.dgn
	PROJECT MANAGER: T. DOMEY
DESIGNED BY: HUNT	PLOT DATE: 18-MAY-2009 10:4
IPARM FILE NAME: 06C054det.1	DRAWN BY: HUNT
	CHECKED BY: PAVT MGMT
	SHEET 5 OF 12



BRIDGE COLD PLANE DETAIL

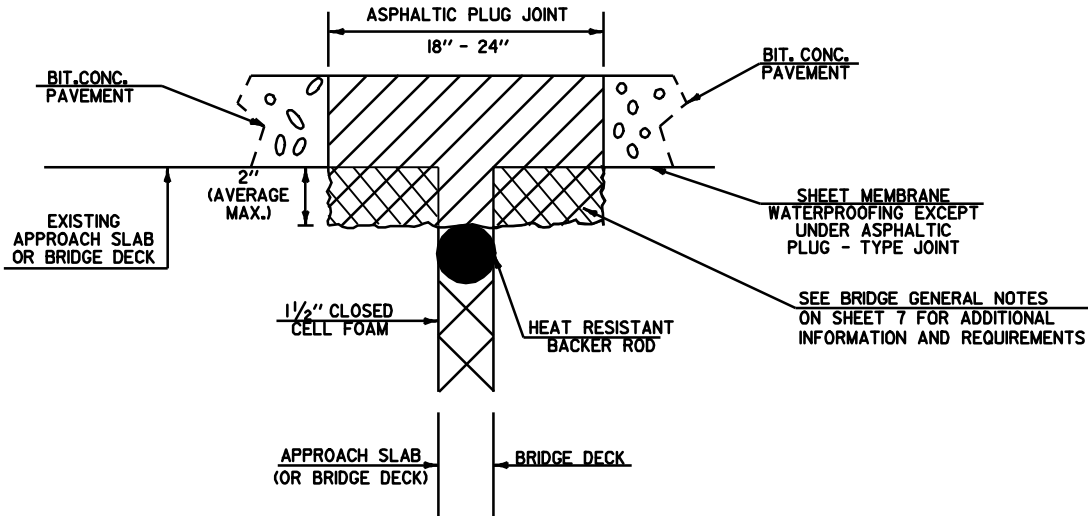
NOT TO SCALE

- CHESTER
- BR #48 MM 5.250
- BR #49 MM 5.561 (2x26') = 52 LF
- ~~BR #50 MM 6.418 (2x26') = 52 LF~~
- SPRINGFIELD
- BR #56 MM 2.535 N/A
- ~~BR #57 MM 2.739~~
- ~~BR #60 MM 3.440~~



ASPHALTIC PLUG - TYPE JOINT DETAIL

NOT TO SCALE



ASPHALTIC PLUG - TYPE JOINT DETAIL

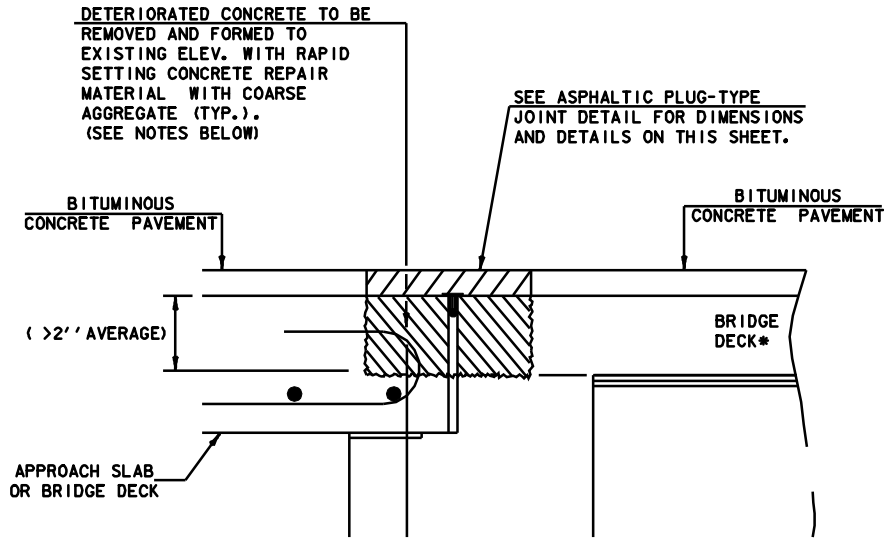
REMOVAL OF UP TO 2" DETERIORATED CONCRETE

NOT TO SCALE

**BRIDGE
DETAILS
SHEET #1**

PROJECT NAME: CHESTER - SPRINGFIELD
PROJECT NUMBER: ST 2612 (I)

FILE NAME: ...06C054\...06C054.dgn PLOT DATE: 18-MAY-2009 10:4
PROJECT MANAGER: T. DOMEY DRAWN BY: HUNT
DESIGNED BY: HUNT CHECKED BY: PAVT MGMT
IPARM FILE NAME: 06C054bdl.I SHEET 6 OF 12



*BRIDGE DECK REINFORCEMENT
NOT SHOWN FOR CLARITY

**ASPHALTIC PLUG - TYPE
JOINT DETAIL
REMOVAL OF >2"
DETERIORATED CONCRETE**

NOT TO SCALE

BRIDGE GENERAL NOTES:

1. UPON ENCOUNTERING UP TO 2" AVERAGE OF DETERIORATED CONCRETE, THE CONTRACTOR SHALL REMOVE THE DETERIORATED MATERIAL AND REPLACE IT WITH THE ASPHALTIC PLUG JOINT MATERIAL AS DIRECTED BY THE RESIDENT ENGINEER.
2. REMOVAL OF THE DETERIORATED CONCRETE WILL NOT BE PAID SEPARATELY BUT WILL BE CONSIDERED INCIDENTAL TO THE UNIT BID PRICE FOR THE ITEM 516.10 BRIDGE EXPANSION JOINT, ASPHALTIC PLUG. THE ADDITIONAL PLUG JOINT MATERIAL BELOW THE DESIGN DEPTH TO REPLACE THE DETERIORATED CONCRETE WILL BE CONSIDERED INCIDENTAL TO THE UNIT BID PRICE FOR THE ITEM 516.10.
3. UPON ENCOUNTERING GREATER THAN 2" AVERAGE OF DETERIORATED CONCRETE, THE CONTRACTOR SHALL REMOVE THE DETERIORATED MATERIAL AND REPLACE IT WITH THE ASPHALTIC PLUG JOINT MATERIAL AS DIRECTED BY THE RESIDENT ENGINEER.
4. REMOVAL OF THE DETERIORATED CONCRETE WILL BE INCLUDED IN THE UNIT BID PRICE FOR 580.20 RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE.
5. THE STEEL PLATE IN THE ASPHALTIC PLUG JOINT MAY BE OMITTED ONLY IF THE REPAIRED SURFACE IS SO IRREGULAR IT WILL CAUSE VERTICAL MOVEMENT AND IT IS DIRECTED BY THE RESIDENT ENGINEER.
6. THE JOINT SHALL BE LOCATED CENTRALLY OVER THE DECK EXPANSION GAP OR FIXED JOINT MARKED OUT TO THE MANUFACTURER'S RECOMMENDED WIDTH.
7. THE JOINT SHALL BE EXCAVATED AS SHOWN ON THE PLANS BY USE OF SAWS AND PNEUMATIC HAMMER OR A HAMMER AND CHISEL.
8. THE JOINT AREA SHALL BE BLAST CLEANED OF DEBRIS AND ASPHALT. THE JOINT AREA SHALL BE THOROUGHLY DRIED USING HOT COMPRESSED AIR PRIOR TO APPLYING BINDER MATERIAL.
9. SPALLED AND DEFECTIVE CONCRETE SHALL BE REPAIRED WITH AN APPROVED MATERIAL AS AGREED UPON BY THE RESIDENT ENGINEER.
10. PROPERLY SIZED HEAT RESISTANT BACKER ROD SHALL BE PLACED IN THE MOVEMENT GAP ALLOWING FOR 1 INCH +/- OF BINDER ABOVE THE ROD.
11. THE BINDER MATERIAL SHALL BE HEATED AND PLACED AS RECOMMENDED BY THE MANUFACTURER.
12. PLACE 1/4 INCH THICK BY 8 INCH WIDE SECTIONS OF STEEL PLATE OVER THE CENTER OF THE MOVEMENT GAP. SECURE PLATES FROM MOVING BY INSERTING LOCATING PINS THROUGH THE PRESTAMPED HOLES INTO BACKER ROD AND COVER WITH HOT BINDER.
 - A. THE STEEL PLATES MAY BE OMITTED WHERE THE APPROACH SLAB IS COVERED WITH A STONE BASE OR BITUMINOUS PAVEMENT AND VERTICAL MOVEMENT OF THE PLATES MIGHT OCCUR.
13. THE BINDER MATERIAL AND AGGREGATE SHALL BE HEATED AND MIXED AS RECOMMENDED BY THE MANUFACTURER.
14. THE INSTALLATION OF MATERIAL, COMPACTION, AND TOPCOATING SHALL BE AS RECOMMENDED BY THE MANUFACTURER.
15. IMMEDIATELY AFTER TOPCOATING, AN ANTI-SKID MATERIAL SHALL BE CAST OVER THE JOINT TO REDUCE THE RISK OF TRACKING.
16. JOINT SHALL BE PROTECTED FROM TRAFFIC UNTIL THE MATERIAL HAS COOLED TO 125°F +/-.
WEATHER LIMITATIONS: BINDER MATERIAL SHALL BE APPLIED ONLY WHEN THE FOLLOWING CONDITIONS PREVAIL:
 - A. THE AMBIENT AIR TEMPERATURE IS AT LEAST 50°F AND RISING.
 - B. THE ROAD SURFACE IS SUFFICIENTLY DRY.
 - C. WEATHER CONDITIONS OR OTHER CONDITIONS ARE FAVORABLE AND ARE EXPECTED TO REMAIN SO FOR THE PERFORMANCE OF SATISFACTORY WORK.

**BRIDGE
DETAILS
SHEET #2**

PROJECT NAME: CHESTER - SPRINGFIELD
PROJECT NUMBER: ST 2612 (I)

FILE NAME: ...06C054\...06C054.dgn PLOT DATE: 18-MAY-2009 10:4
PROJECT MANAGER: T. DOMEY DRAWN BY: HUNT
DESIGNED BY: HUNT CHECKED BY: PAVT MGMT
IPARM FILE NAME: 06C054bd2.1 SHEET 7 OF 12

NON PARTIC	ALT A	ALT B	FULL CE	BRIDGE	ROAD-WAY	TOTAL QUANTITY	UNIT	DESCRIPTION	ITEM	ROUNDING
					1	1	CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	-
					10600	10600	SY	COLD PLANING, BITUMINOUS PAVEMENT	210.10	107
					10	10	TON	SUBBASE OF CRUSHED GRAVEL, FINE GRADED	301.28	EST
					675	675	CWT	EMULSIFIED ASPHALT	404.65	17
					1	1	LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	-
					215	215	LF	BRIDGE EXPANSION JOINT, ASPHALTIC PLUG	516.10	4
					25	25	CF	RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE	580.20	EST
					10	10	EA	REHAB. DI'S, CB'S, OR MH'S, CLASS I	604.412	-
					9	9	EA	REHAB. DI'S, CB'S, OR MH'S, CLASS II	604.415	-
					9	9	EA	REHAB. DI'S, CB'S, OR MH'S, CLASS III	604.418	-
8					8	8	EA	CHANGING ELEVATION OF SEWER MANHOLES	604.42	-
					50	50	HR	POWER GRADER RENTAL	608.15	19
					75	75	HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	608.25	-
					75	75	HR	POWER BROOM RENTAL, TYPE I	608.30	8
					150	150	HR	TRUCK RENTAL	608.37	-
					75	75	HR	LOADER RENTAL, TYPE I	608.40	24
					16	16	TON	BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS	616.47	0.6
10					10	10	EA	ADJUST ELEVATION OF VALVE BOX	629.20	EST
					1400	1400	HR	UNIFORMED TRAFFIC OFFICERS	630.10	-
					3800	3800	HR	FLAGGERS	630.15	-
					1	1	LS	FIELD OFFICE, ENGINEERS	631.10	-
					1	1	LS	TESTING EQUIPMENT, BITUMINOUS	631.17	-
					1	1	LU	FIELD OFFICE TELEPHONE (N.A.B.I.)	631.25	-
					1	1	LS	MOBILIZATION/DEMobilIZATION	635.11	-
					1	1	LS	TRAFFIC CONTROL	641.10	-
					3	3	EA	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	-

COURSE	DATE PAVED	AIR VOID PAY FACTOR	LOCATION DESCRIPTION	TEST FAILURE NOTES
TOP	9/15/08	79	EB 12' TRAVEL LANE & 8.5' SHLDR FROM CHESTER MM 5.13 ~ 6.23	TEST CS01T, % VFA BELOW LOW LIMIT TEST CS04T, % VMA ABOVE HIGH LIMIT & AIR VOIDS @ NDESIGN IS 5.4 (LIMIT IS 5.0)
TOP	9/16/08	91	EB 8.5' SHLDR FROM CHESTER MM 6.23 ~ 8.25	TEST CS05T, % VMA IS BELOW LOW LIMIT & AIR VOIDS @ NDESIGN IS 2.5 (LIMIT IS 3.0) TEST CS07T, % VMA IS ABOVE THE HIGH LIMIT
TOP	9/22/08	98	EB 8.5' SHLDR S-FIELD MM 2.50 ~ 3.528 EB 12' TRAVEL LANE S-FIELD MM 2.31 ~ 3.527	TEST CS20T, % VMA IS ABOVE THE HIGH LIMIT
TOP	9/23/08	99.9	EB 12' TRAVEL LANE S-FIELD MM 3.527 ~ 3.528 WB 8.5' SHLDR S-FIELD MM 3.528 ~ 2.41 WB 12' TRAVEL LANE S-FIELD MM 3.528 ~ 2.44	TEST CS24T, % VMA IS ABOVE THE HIGH LIMIT TEST CS25T, % VMA IS ABOVE THE HIGH LIMIT TEST CS26T, % VMA IS ABOVE THE HIGH LIMIT
TOP	9/25/08	97.4	WB SHLDR S-FIELD MM L02 ~ CHESTER MM 7.86 WB 12' TRAVEL LANE S-FIELD MM L07 ~ CHESTER MM 7.87	TEST CS32T, % VMA IS ABOVE THE HIGH LIMIT TEST CS33T, % VMA IS ABOVE THE HIGH LIMIT & AIR VOIDS @ NDESIGN IS 5.1, GREATER THAN 5.0 LIMIT

QUANTITY SHEET #1

PROJECT NAME: CHESTER - SPRINGFIELD
PROJECT NUMBER: ST 2612 (I)
FILE NAME: ...06C054\...06C054.dgn PLOT DATE: 18-MAY-2009 10:4
PROJECT MANAGER: T. DOMEY DRAWN BY: HUNT
DESIGNED BY: HUNT CHECKED BY: PAVT MGMT
IPARM FILE NAME: 06C054qsl1 SHEET 8 OF 12

NON PARTIC	ALT A	ALT B	FULL CE	BRIDGE	ROAD-WAY	TOTAL QUANTITY	UNIT	DESCRIPTION	ITEM	ROUNDING
					70550	70550	LF	4 INCH WHITE LINE	646.20	7
					70550	70550	LF	4 INCH YELLOW LINE	646.21	743
					115	115	LF	24 INCH STOP BAR	646.26	3
					85	85	LF	CROSSWALK MARKING	646.31	5
					2	2	EA	RAILROAD CROSSING SYMBOL	646.32	-
					70550	70550	LF	TEMPORARY 4 INCH WHITE LINE, PAINT	646.602	-
					70550	70550	LF	TEMPORARY 4 INCH YELLOW LINE, PAINT	646.612	-
					115	115	LF	TEMPORARY 24 INCH STOP BAR, PAINT	646.682	-
					6	6	EA	TEMPORARY RAILROAD CROSSING SYMBOL, PAINT	646.712	-
					3525	3525	EA	LINE STRIPING TARGETS	646.76	44
					1	1	LU	PRICE ADJUSTMENT, FUEL (N.A.B.I.)	690.50	-
								ALTERNATE A		
	17700					17700	TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (PG 58-28)	490.30	203
							LU	AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)	490.31	-
							LU	MAT DENSITY PAY ADJUSTMENT (N.A.B.I.)	490.32	-
							LU	SURFACE TOLERANCE PAY ADJUSTMENT (N.A.B.I.)	490.33	-
							LU	LONGITUDINAL JOINT COMPACTION PAY ADJUSTMENT (N.A.B.I.)	490.34	-
								ALTERNATE B		
	17700					17700	TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (PG 58-28)	490.30	203
							LU	AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)	490.31	-
								END PROJECT ALTERNATE ITEMS		

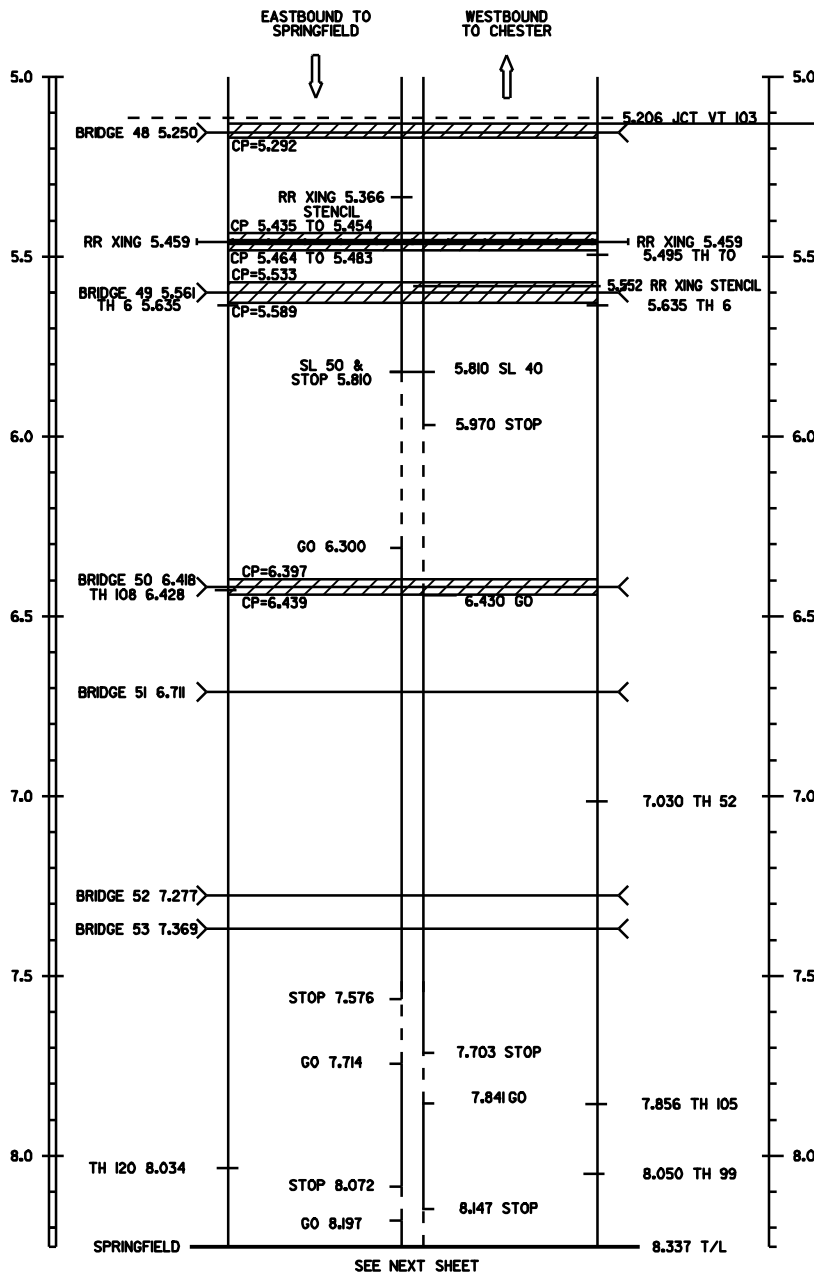
DETAILED SUMMARY OF QUANTITIES

QUANT	UNIT	ITEMS	QUANT	UNIT	ITEMS	QUANT	UNIT	ITEMS
		COLD PLANING, BITUMINOUS PAVEMENT			SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (PG 58-28)			
801	SY	BEGIN PROJECT & BR *48						
580	SY	RR	13035	TON	MAINLINE WEARING			
854	SY	BR *49	4380	TON	MAINLINE LEVELING			
641	SY	BR *50	19	TON	TOWN HIGHWAY WEARING			
446	SY	BR *55	7	TON	TOWN HIGHWAY LEVELING			
446	SY	BR *55	42	TON	DRIVE WEARING			
209	SY	BR *56	14	TON	DRIVE LEVELING			
4318	SY	CURB RT						
219	SY	BR *57	13096	TON	SUBTOTAL WEARING			
952	SY	CURB LT	4401	TON	SUBTOTAL LEVELING			
219	SY	BR *60						
329	SY	CURB LT	17497	TON	SUBTOTAL			
479	SY	END PROJECT						
			203	TON	ROUNDING			
10493	SY	SUBTOTAL						
			17700	TON	TOTAL (TYPE IVS)			
107	SY	ROUNDING						
10600	SY	TOTAL						

QUANTITY SHEET #2

PROJECT NAME:	CHESTER - SPRINGFIELD
PROJECT NUMBER:	ST 2612 (I)
FILE NAME:	...06C054\...06C054.dgn
PLOT DATE:	18-MAY-2009 10:4
PROJECT MANAGER:	T. DOMEY
DRAWN BY:	HUNT
DESIGNED BY:	HUNT
CHECKED BY:	PAVT MGMT
IPARM FILE NAME:	06C054qs2.1
	SHEET 9 OF 12

CHESTER



BEGIN ST 2612(I)
MM 5.222

646.21 4 INCH YELLOW LINE
646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 MM 5.222 TO MM 5.810 RT, SOLID
 MM 5.222 TO MM 5.970 LT, SOLID
 MM 5.810 TO MM 6.300 RT, DASHED
 MM 5.970 TO MM 6.430 LT, DASHED
 MM 6.300 TO MM 7.576 RT, SOLID
 MM 6.430 TO MM 7.703 LT, SOLID
 MM 7.576 TO MM 7.714 RT, DASHED
 MM 7.703 TO MM 7.841 LT, DASHED
 MM 7.714 TO MM 8.072 RT, SOLID
 MM 7.841 TO MM 8.147 LT, SOLID
 MM 8.072 TO MM 8.197 RT, DASHED
 MM 8.147 TO MM 8.252-MM 0.000 LT, DASHED
 MM 8.197 TO MM 8.252-MM 0.000 RT, SOLID

646.20 4 INCH WHITE LINE
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 MM 5.222 TO MM 8.252-MM 0.000 LT & RT, SOLID

646.26 24 INCH STOP BAR
646.682 TEMPORARY 24 INCH STOP BAR, PAINT
 MM 5.208 LT
 MM 5.361 RT
 MM 5.371 RT
 MM 5.456 RT
 MM 5.462 LT
 MM 5.547 LT
 MM 5.557 LT

646.31 CROSSWALK MARKING
646.702 TEMPORARY CROSSWALK MARKING, PAINT
 MM 5.208 LT & RT

646.32 RAILROAD CROSSING SYMBOL
 MM 5.377 RT
 MM 5.563 LT

604.412 REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I
604.415 REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS II
604.418 REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS III
 MM 5.211 RT I * EACH LOCATION SHALL BE INSPECTED BY THE
 MM 5.211 LT I RESIDENT ENGINEER, WHO WILL THEN DETERMINE
 MM 6.437 LT I WHICH LOCATION REQUIRES WHICH TREATMENT.
 MM 6.500 LT II
 MM 6.612 LT II
 MM 7.029 RT I
 MM 7.482 RT I
 MM 7.730 RT I
 MM 7.825 RT II

604.42 CHANGING ELEVATION OF SEWER MANHOLES
 MM 5.203 LT
 MM 5.225 LT
 MM 5.243 LT
 MM 5.282 LT
 MM 5.326 LT } BY TOWN OF CHESTER

FOR HOT MIX(AIR VOID) TEST FAILURES.
SEE BOTTOM OF SHEET 8 OF 12.

LEGEND

COLD PLANE AREAS

ONE DAY OF CORES TAKEN FOR ENTIRE PROJECT (EB LANE)

CORE #	MM	OFFSET
1	5.315	7.08 RT
2	5.460	7.80 RT
3	5.629	1.87 RT
4	5.806	2.03 RT
5	5.893	3.55 RT
6	6.155	9.95 RT

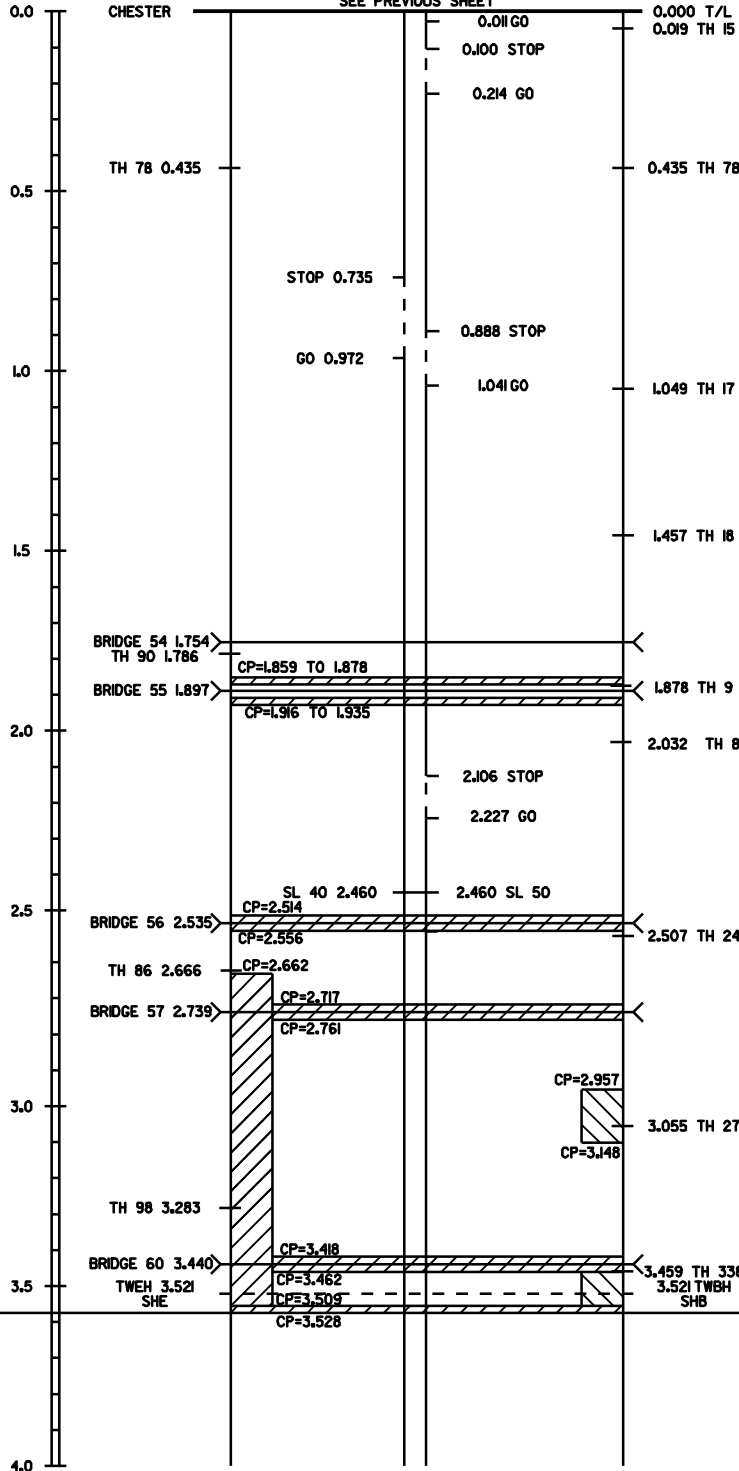
PROJECT LAYOUT SHEET #1	PROJECT NAME: CHESTER - SPRINGFIELD
	PROJECT NUMBER: ST 2612 (I)
	FILE NAME: ...06C054\...06C054.dgn
	PROJECT MANAGER: T. DOMEY
DESIGNED BY: HUNT	PLOT DATE: 18-MAY-2009 10:4
IPARM FILE NAME: 06C054pl1	DRAWN BY: HUNT
	CHECKED BY: PAVT MGMT
	SHEET 10 OF 12

SPRINGFIELD

EASTBOUND TO SPRINGFIELD WESTBOUND TO CHESTER



SEE PREVIOUS SHEET



646.21 4 INCH YELLOW LINE
646.612 TEMPORARY 4 INCH YELLOW LINE PAINT
 MM 0.000 TO MM 0.011 LT, DASHED
 MM 0.000 TO MM 0.735 RT, SOLID
 MM 0.011 TO MM 0.100 LT, SOLID
 MM 0.100 TO MM 0.214 LT, DASHED
 MM 0.214 TO MM 0.888 LT, SOLID
 MM 0.735 TO MM 0.972 RT, DASHED
 MM 0.888 TO MM 1.041 LT, DASHED
 MM 0.972 TO MM 3.528 RT, SOLID
 MM 1.041 TO MM 2.106 LT, SOLID
 MM 2.106 TO MM 2.227 LT, DASHED
 MM 2.227 TO MM 3.528 LT, SOLID

646.20 4 INCH WHITE LINE
646.602 TEMPORARY 4 INCH WHITE LINE PAINT
 MM 0.000 TO MM 3.528 LT&RT, SOLID

604.412 REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I
604.415 REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS II
604.418 REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS III

MM 1.381 RT II * EACH LOCATION SHALL BE
 MM 1.648 LT II INSPECTED BY THE
 MM 1.716 LT II RESIDENT ENGINEER, WHO
 MM 1.779 LT II WILL THEN DETERMINE
 MM 2.653 LT I WHICH LOCATION REQUIRES
 MM 2.661 RT I WHICH TREATMENT.
 MM 2.778 RT I
 MM 2.900 RT I
 MM 2.957 RT I
 MM 3.029 LT II
 MM 3.033 RT I
 MM 3.063 LT I
 MM 3.078 LT I
 MM 3.108 RT I
 MM 3.108 LT I
 MM 3.403 RT I
 MM 3.440 RT I
 MM 3.477 LT I
 FAIRGROUND RD LT I

629.20 ADJUST ELEVATION OF VALVE BOX
 MM 2.908 (3 EA) RT
 MM 3.059 (3 EA) RT

604.42 CHANGING ELEVATION OF SEWER MANHOLES
 MM 2.534 LT
 MM 2.598 LT
 MM 3.371 LT
 MM 2.50 LT
 MM 2.52 LT

****FOR HOT MIX (AIR VOIDS) TEST FAILURES. SEE BOTTOM OF PAGE 8 OF 12.**

END ST 2612(I)
 MM 3.528

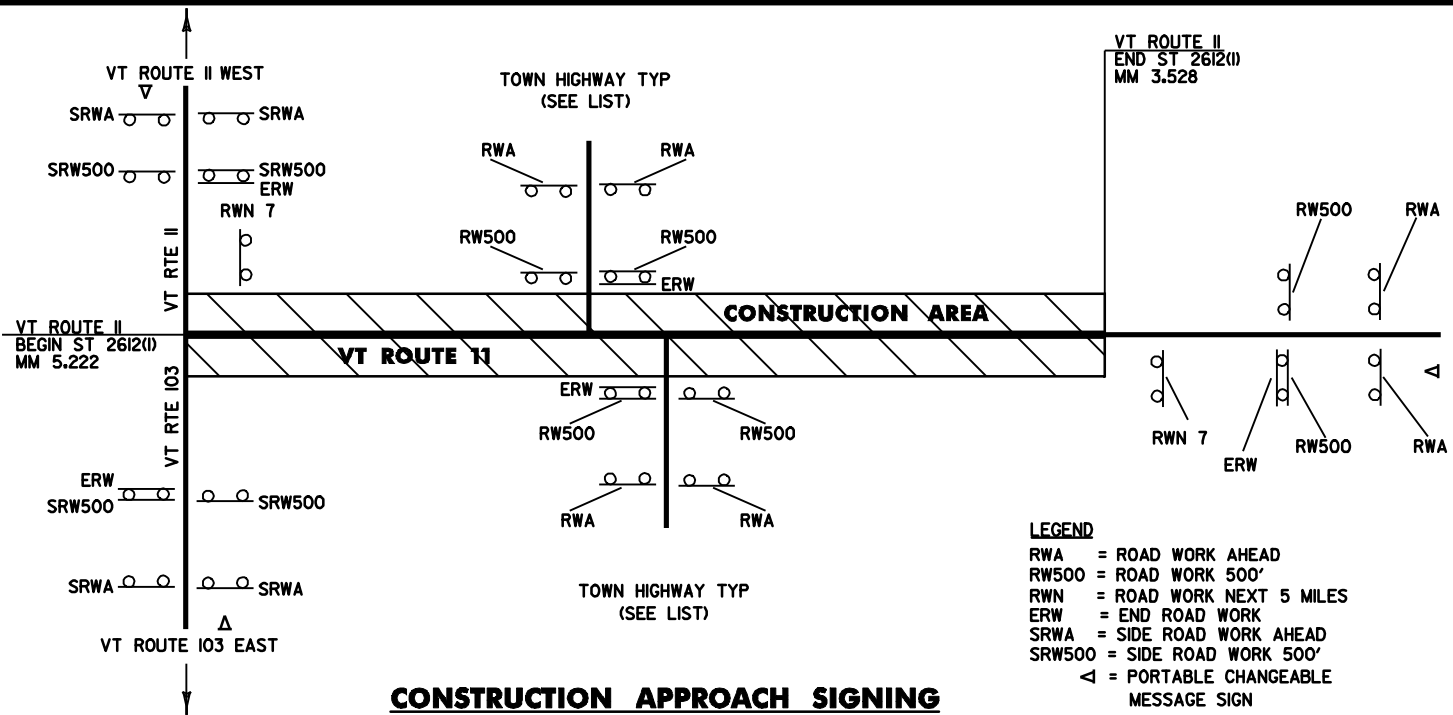
LEGEND

COLD PLANE AREAS

PROJECT LAYOUT SHEET #2

PROJECT NAME: CHESTER - SPRINGFIELD
 PROJECT NUMBER: ST 2612 (I)

FILE NAME: ...06C054\...06C054.dgn PLOT DATE: 18-MAY-2009 10:4
 PROJECT MANAGER: T. DOMEY DRAWN BY: HUNT
 DESIGNED BY: HUNT CHECKED BY: PAVT MGMT
 IPARM FILE NAME: 06C054pl2.1 SHEET II OF 12



CONSTRUCTION APPROACH SIGNING

NOT TO SCALE

- NOTES:**
 1. SEE STANDARDS E-100 AND E-100A FOR SIGN PLACEMENT.
 2. THE CONTRACTOR SHALL INCLUDE A CONSTRUCTION SIGN PACKAGE FOR EXPECTED LANE CLOSURES AND WORK ZONE SPEED REDUCTIONS IN COMPLIANCE WITH STANDARD E-103 AND MUTCD PART 6, FIGURE 6H-10. PAYMENT FOR PROVIDING THIS PACKAGE SHALL BE INCIDENTAL TO ITEM 64L10, TRAFFIC CONTROL.
 3. PAYMENT FOR CONSTRUCTION APPROACH SIGNING WILL BE MADE UNDER ITEM 64L10, TRAFFIC CONTROL.
 4. CONSTRUCTION ZONE SIGN LAYOUT SHALL BE IN ACCORDANCE WITH SECTION 6 OF THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
 5. CONSTRUCTION SIGNS SHALL BE IN NEW OR LIKE NEW CONDITION PER VAOT STANDARDS.
 6. DIAMOND SHAPED SIGNS SHALL BE 4' X 4' WITH BLACK LEGEND ON FLUORESCENT ORANGE BACKGROUND.
 7. RETROREFLECTIVE SHEETING SHALL BE TYPE VII OR BETTER.
 8. CONSTRUCTION ZONE SIGNS SHALL BE INSTALLED ON TWO POSTS EACH OR AS AN NCHRP REPORT 350 COMPLIANT SIGN/STAND SYSTEM.
 9. INSTALLATION OF CONSTRUCTION ZONE SIGNING SHALL NOT BLOCK EXISTING SIGN ASSEMBLIES. A MINIMUM OF 200 FEET SHALL BE MAINTAINED BETWEEN ANY EXISTING SIGNS AND THE CONSTRUCTION SIGNS.
 10. PORTABLE CHANGEABLE MESSAGE SIGNS ARE OPTIONAL AND ARE TO BE USED AS DIRECTED BY THE RESIDENT ENGINEER. PAYMENT FOR THESE SHALL BE PAID UNDER 64L15, PORTABLE CHANGEABLE MESSAGE SIGN.

LIST OF TOWNSTATE HIGHWAYS FOR CONSTRUCTION SIGNS

TOWN/STATE HIGHWAY NAME	ROAD WORK AHEAD	END ROAD WORK	ROAD WORK 500'	ROAD WORK NEXT 7 MILES	SIDE ROAD WORK AHEAD	SIDE ROAD WORK 500'	OTHER
BEGIN PROJECT, VT II		1			2	2	I-PORTABLE CHANGEABLE MESSAGE SIGN
BEGIN PROJECT, VT 103		1			2	2	I-PORTABLE CHANGEABLE MESSAGE SIGN
BEGIN PROJECT				1			
TH *70 (MM 5.495)	2	1	2				
TH *6 (MM 5.635)	2	1	2				
TH *6 (MM 5.635)	2	1	2				
TH *108 (MM 6.428)	2	1	2				
TH *52 (MM 7.030)	2	1	2				
TH *105 (MM 7.856)	2	1	2				
TH *120 (MM 8.034)	2	1	2				
TH *99 (MM 8.050)	2	1	2				
TH *15 (MM 0.019)	2	1	2				
TH *78 (MM 0.435)	2	1	2				
TH *78 (MM 0.435)	2	1	2				
TH *17 (MM 1.049)	2	1	2				
TH *18 (MM 1.457)	2	1	2				
TH *90 (MM 1.786)	2	1	2				
TH *9 (MM 1.878)	2	1	2				
TH *8 (MM 2.032)	2	1	2				
TH *24 (MM 2.507)	2	1	2				
TH *86 (MM 2.666)	2	1	2				
TH *27 (MM 3.055)	2	1	2				
TH *98 (MM 3.283)	2	1	2				
TH *338 (MM 3.459)	2	1	2				
END PROJECT		1		1	2	2	I-PORTABLE CHANGEABLE MESSAGE SIGN
TOTAL	42	24	42	2	6	6	3

CONSTRUCTION APPROACH SIGNING

PROJECT NAME: CHESTER - SPRINGFIELD
 PROJECT NUMBER: ST 2612 (I)
 FILE NAME: ...06C054\...06C054.dgn
 PROJECT MANAGER: T. DOMEY
 DESIGNED BY: HUNT
 IPARM FILE NAME: 06C054cas.l
 PLOT DATE: 18-MAY-2009 10:4
 DRAWN BY: HUNT
 CHECKED BY: PAVT MGMT
 SHEET 12 OF 12