



**TRANSPORTATION CABINET**

Frankfort, Kentucky 40622  
www.transportation.ky.gov/

**Steven L. Beshear**  
Governor

**Michael W. Hancock, P.E.**  
Secretary

June 12, 2012

CALL NO. 310  
CONTRACT ID NO. 121018  
ADDENDUM # 2

Subject: Menifee County, JL04 083 0460 010-014  
Letting June 15, 2012

- (1) Revised - Plan Sheets - R1, R2, R2A, R2B, R2C, R2J, R2K, & R2L
- (2) Revised - Bid Items - Pages 110-119 of 119

Proposal revisions are available at <http://transportation.ky.gov/Construction-Procurement/>.

Plan revisions are available at <http://www.lynnimaging.com/kytransportation/>.

If you have any questions, please contact us at 502-564-3500.

Sincerely,

A handwritten signature in blue ink that reads "Ryan Griffith".

Ryan Griffith  
Director  
Division of Construction Procurement

RG:ks  
Enclosures



An Equal Opportunity Employer M/F/D



COUNTY OF	ITEM NO.	SHEET NO.
MENIFEE	10-117.01	RI

 REVISED 06-11-2012

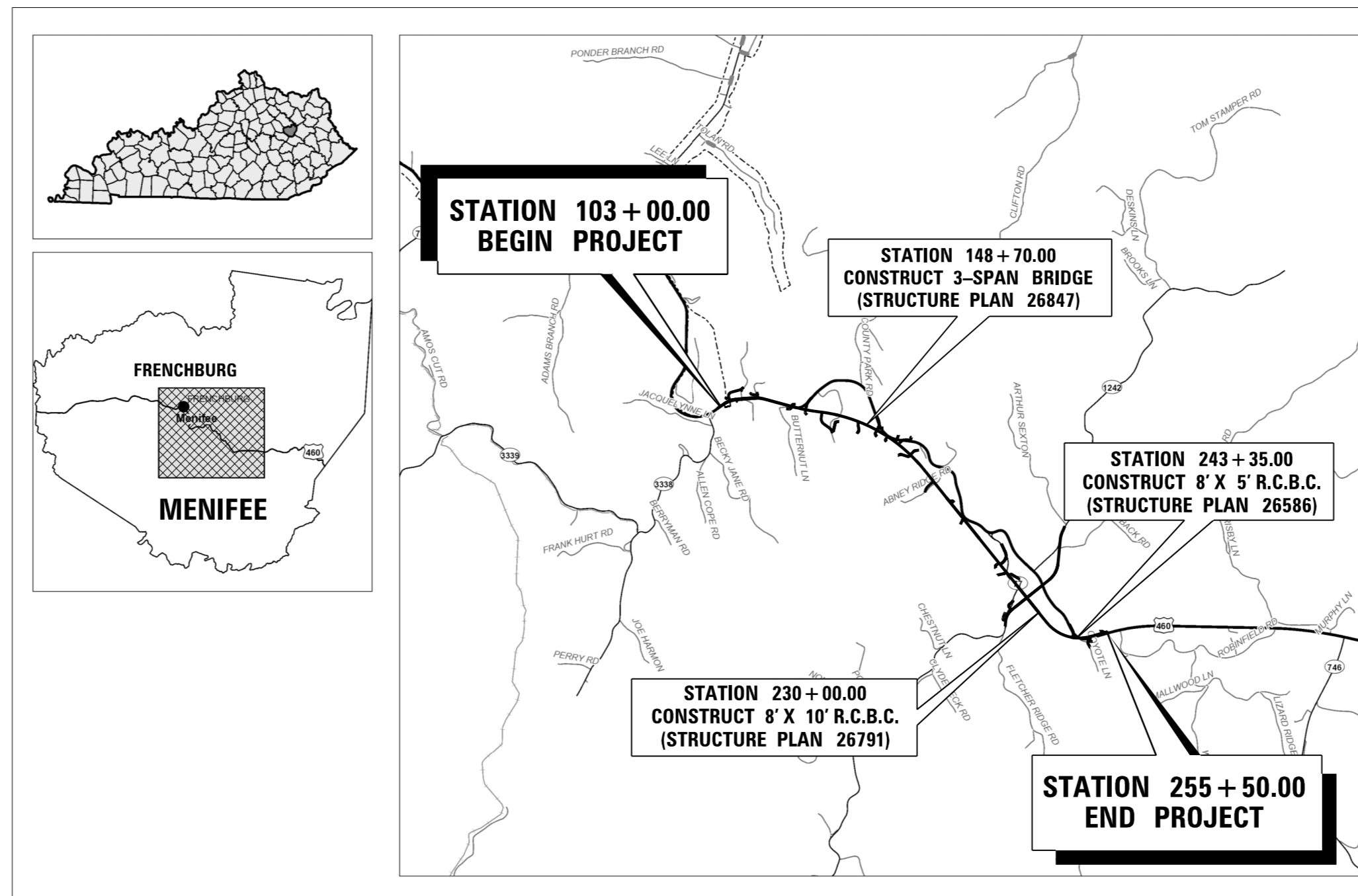


# Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS

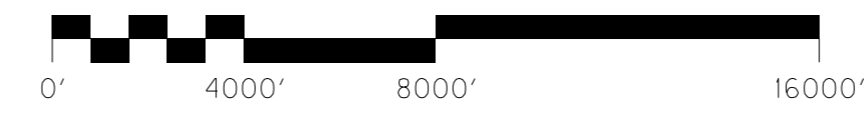
## PLANS OF PROPOSED PROJECT FRENCHBURG - WEST LIBERTY ROAD (US 460) MENIFEE COUNTY JL04 083 0460 010-014 GRADE, DRAIN & SURFACING PLANS

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
R1	LAYOUT SHEET
R2-R20	TYPICAL SECTIONS-SUMMARY OF QUANTITIES
R3-R40	PLAN AND PROFILE SHEETS
R41-R42	RIGHT OF WAY SUMMARY SHEETS
R43-R49	RIGHT OF WAY STRIP MAP SHEETS
R49A-R49C	DETAIL SHEETS
R50-R56A	COORDINATE CONTROL SHEETS
R57-R59	TRAFFIC CONTROL SHEETS
R80-R93	EROSION CONTROL SHEETS
R94-R124	SOIL PROFILE SHEETS
R125-R149	PIPE DRAINAGE SHEETS
X1-X329	CROSS SECTIONS
S1-S8	STRUCTURE PLANS (26586)
S1-S7	STRUCTURE PLANS (26791)
S1-S24	STRUCTURE PLANS (26847)
U1-U19	UTILITY PLANS
TOTAL SHEETS	
(R) ROADWAY	149
(S) STRUCTURE	43
(T) TRAFFIC	0
(U) UTILITY	19
(X) CROSS SECTION	329
SHEETS NOT INCLUDED IN TOTAL SHEETS	
R2A-R20, R49A-R49C, R50A, R51A, R52A, R53A, R54A, R55A, R56A, R68A, R68B, R79A-R79K, R106A	

STANDARD DRAWINGS	
NUMBER	
RBB-001-07	RDX-230
RBC-001-10	REF-001-07
RBC-002-02	RGS-001-06
RBC-003-07	RGX-001-05
RBI-001-10	RGX-005-05
RBU-001-06	RGX-010-03
RBR-001-11	RGX-100-05
RBR-005-10	RGX-105-07
RBR-010-05	RPM-110-06
RBR-015-04	RPM-120-06
RBR-016-04	RRP-001-04
RBR-015-01	RPN-010-06
RBR-016-01	RPN-015-06
RBD-021-06	RPS-010-10
RBD-030-01	RPS-020-13
RBD-040-04	RPS-031-05
RDI-001-09	TTC-110-02
RDI-002-04	TTD-125-01
RDI-003-04	TPM-155-01
RDI-020-08	TPM-155-01
RDI-021-04	
RDI-041	
RDP-001-05	
RDP-006-03	
RDP-010-05	
RDX-210-02	
RDX-220-04	
RDX-230	
TOTAL STANDARD DRAWINGS: 49	



THE CONTROL OF ACCESS ON THIS PROJECT SHALL BE BY PERMIT



SCALE IN 1"=4000'  
**LAYOUT MAP**

**BEFORE YOU DIG**

↓


The contractor is instructed to call 1-800-752-6007 to reach KY 811, the one-call system for information on the location of existing underground utilities. The call is to be placed a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor should be aware that owners of underground facilities are not required to be members of the KY 811 one-call Before-U-Dig (BUD) service. The contractor must coordinate excavation with the utility owners, including those whom do not subscribe to KY 811. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area.

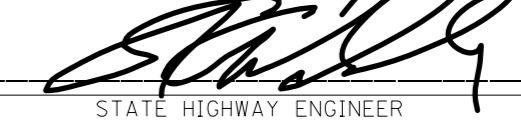
DESIGN CRITERIA	
CLASS OF HIGHWAY	RURAL ARTERIAL
TYPE OF TERRAIN	ROLLING
DESIGN SPEED	55 MPH
REQUIRED NPSD	500 FT
REQUIRED PSD	1950 FT
LEVEL OF SERVICE	N/A
ADT PRESENT ( 2005 )	4200
ADT FUTURE ( 2025 )	6300
DHV (2025)	660
D %	
T %	
GEOGRAPHIC COORDINATES	
LATITUDE	37 DEGREES 56 MINUTES _____ SECONDS NORTH
LONGITUDE	83 DEGREES 37 MINUTES _____ SECONDS WEST
DESIGNED	
% RESTRICTED SD	_____
LEVEL OF SERVICE	_____
MAX. DISTANCE W/O PASSING	_____

LENGTH	ADD'D DEDUCTED	FOR EQUALITIES	NOT INCLUDED	LENGTH	ADD'D DEDUCTED	FOR EQUALITIES	NOT INCLUDED	LENGTH	ADD'D DEDUCTED	FOR EQUALITIES	NOT INCLUDED	LENGTH	ADD'D DEDUCTED	FOR EQUALITIES	NOT INCLUDED
15250															

**Commonwealth of Kentucky  
DEPARTMENT OF HIGHWAYS  
COUNTY OF  
MENIFEE**

ITEM NO. 10-117.01  
PROJECT NUMBER: FRENCHBURG - WEST LIBERTY ROAD (US 460)  
JL04 083 0460 010-014 050 D  
LETTING DATE: JUNE 15, 2012

RECOMMENDED BY:  DATE: Feb 22, 2012

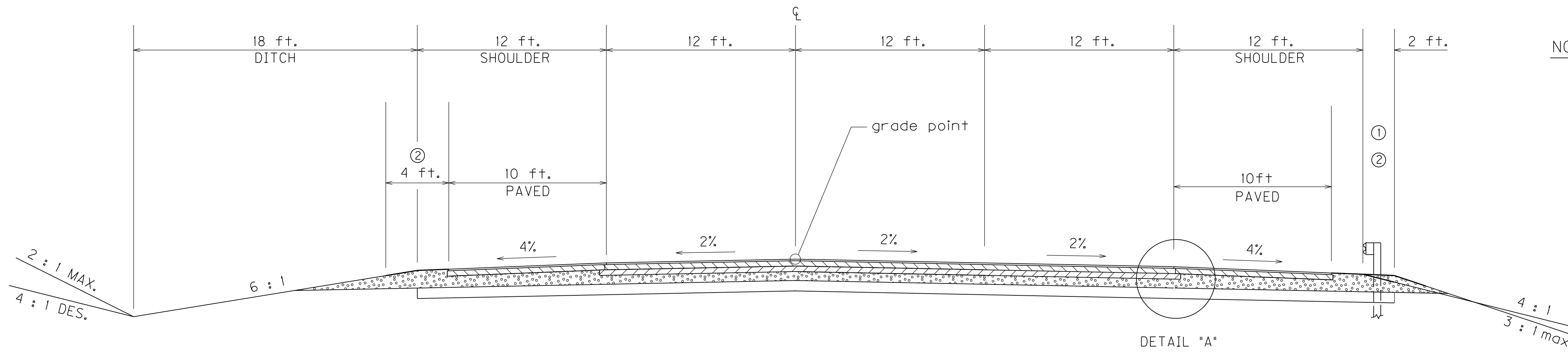
PLAN APPROVED BY:  DATE: 06/11/2012

FILE NAME: G:\PWORK\JEFF.LAIL\0013245\RO0100L.S.DGN  
USER: jeff.lail  
DATE PLOTTED: May 16, 2012  
E-SHEET NAME: RO0100L  
MicroStation v8.11.7.180



# TYPICAL SECTIONS

PROPOSED 2 - LANE ROADWAY W/ TRUCK CLIMBING LANE  
STA. 108+00 TO STA. 116+20



NORMAL SECTION

- NOTES: ① Shoulders shall be widened 2 ft. when guardrail is required.  
 ② Asphalt Seal required from outside edge of paved shoulders for a distance of 4.0 feet or 2.0 feet down the slope.  
 Two applications of the following:  
 Emulsified Asphalt RS-2 @ 2.4 LBS/SY  
 Asphalt Seal Aggregate @ 20 LBS/SY

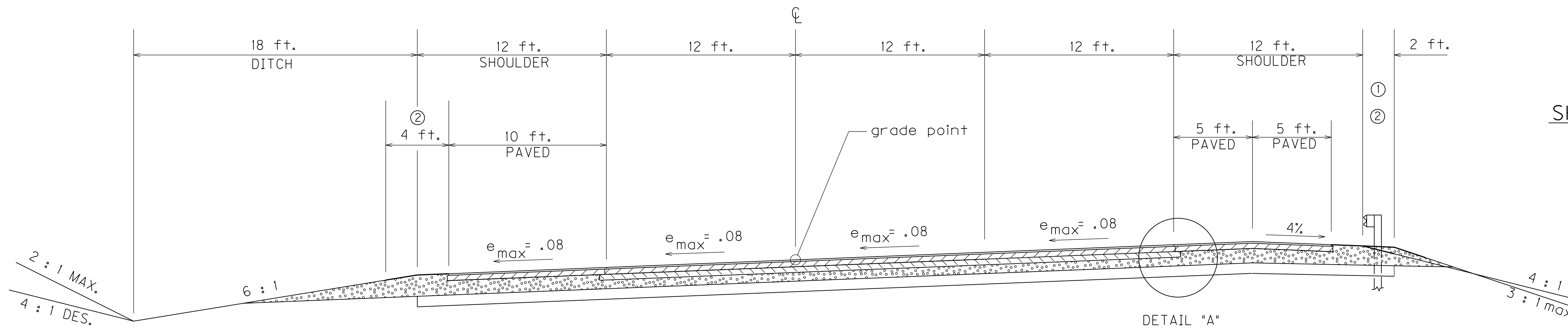
PAVEMENT DESIGN

TRAFFIC LANES

CL2 Asph Surf 0.38D PG64-22	1.25 in.
CL2 Asph Base 1.00D PG64-22	8.0 in. (4.0"+4.0")
Crushed Stone Base	4.0 in.
Cement Stabilized Roadbed	8.0 in.

SHOULDERS

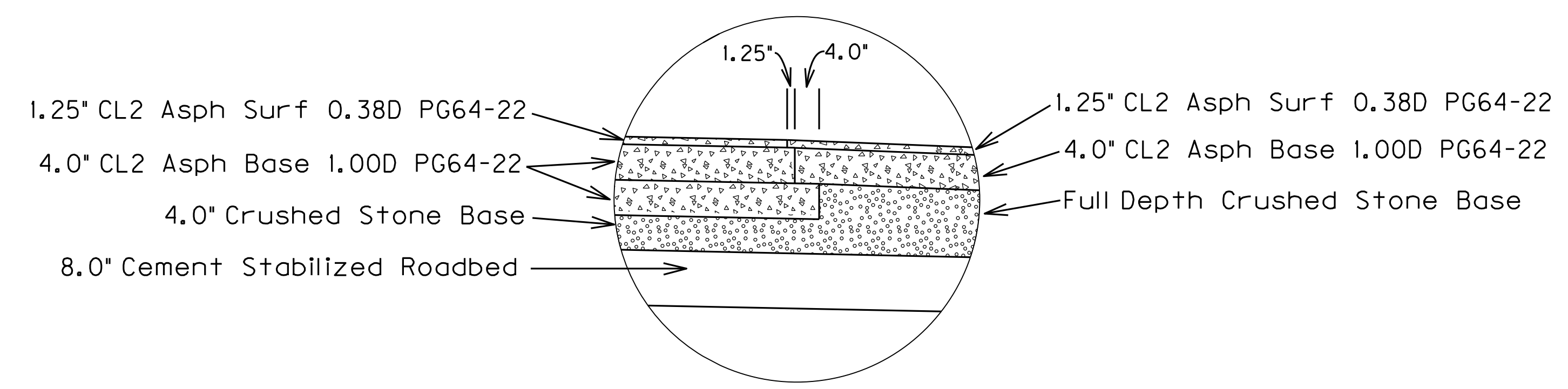
CL2 Asph Surf 0.38D PG64-22	1.25 in.
CL2 Asph Base 1.00D PG64-22	4.0 in.
Crushed Stone Base	Full Depth
Cement Stabilized Roadbed	8.0 in.



SUPERELEVATED SECTION

**DESIGN CHANGE**

CROSS-SECTIONS FOR THIS PROJECT WERE DEVELOPED FOR A PAVEMENT THICKNESS OF 16.25 INCHES. THE PAVEMENT DESIGN WAS LATER REVISED. TYPICAL SECTIONS WERE AND EARTHWORK QUANTITIES WERE ADJUSTED TO REFLECT THIS CHANGE. HOWEVER, CROSS-SECTIONS WERE NOT REVISED AND, IN THIS CASE, TYPICAL SECTIONS GOVERN OVER CROSS-SECTIONS. MAKE FINAL PAYMENT ON ADJUSTED QUANTITIES.



DETAIL "A"

TYPICAL SECTION  
STA. 108+00 TO STA. 116+20

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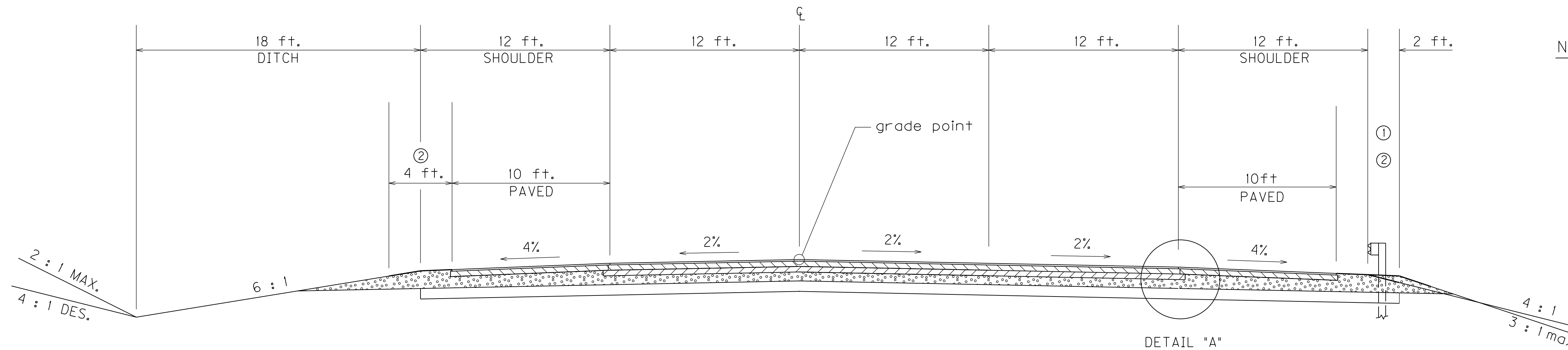
USER: min. jiang  
DATE PLOTTED: June 11, 2012

E-SHEET NAME: ROO200T

MicroStation v8.11.7.443

# TYPICAL SECTIONS

PROPOSED 2 - LANE ROADWAY W/ TRUCK CLIMBING LANE  
STA. 108+00 TO STA. 116+20



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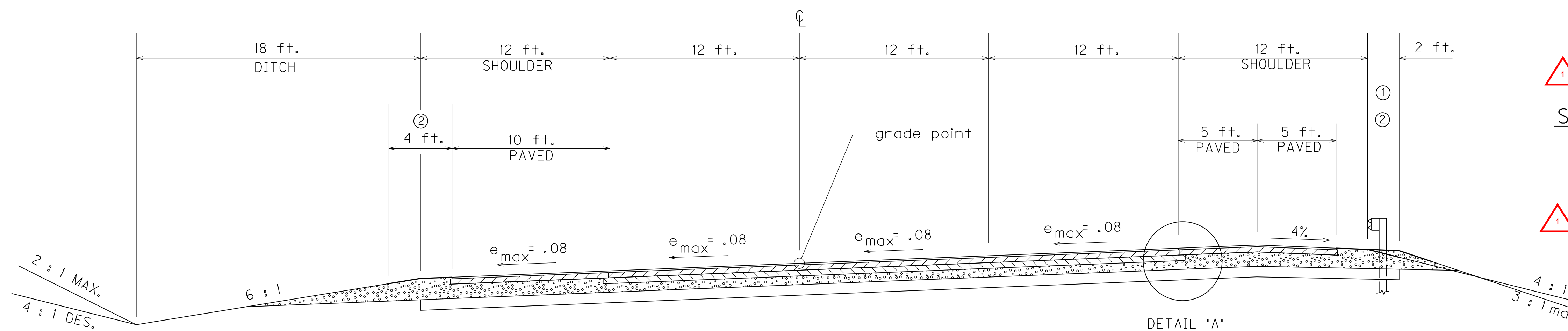
## PAVEMENT DESIGN

### TRAFFIC LANES

CL2 Asph Surf 0.38D PG64-22	1.25 in.
CL2 Asph Base 1.00D PG64-22	8.0 in. (4.0"+4.0")
Crushed Stone Base	4.0 in.
Cement Stabilized Roadbed	8.0 in.

### SHOULDERS

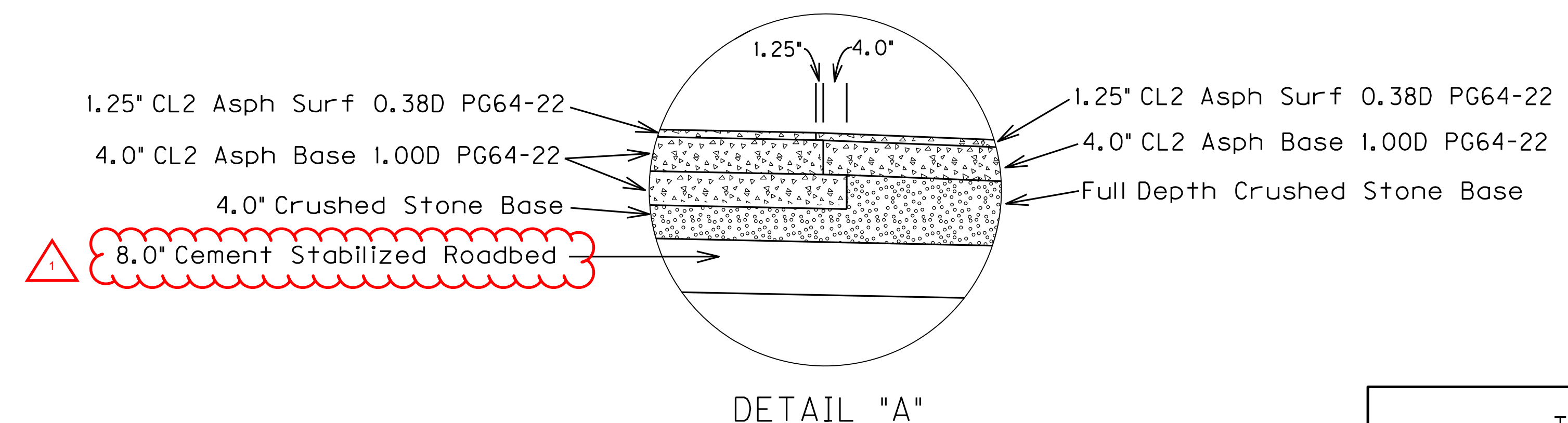
CL2 Asph Surf 0.38D PG64-22	1.25 in.
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Crushed Stone Base	Full Depth
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SUPERELEVATED SECTION

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DETAIL "A"

TYPICAL SECTION  
STA. 108+00 TO STA. 116+20

FILE NAME: C:\PWORK\MIN. JIANG\0618148\ROO200T.S.DGN

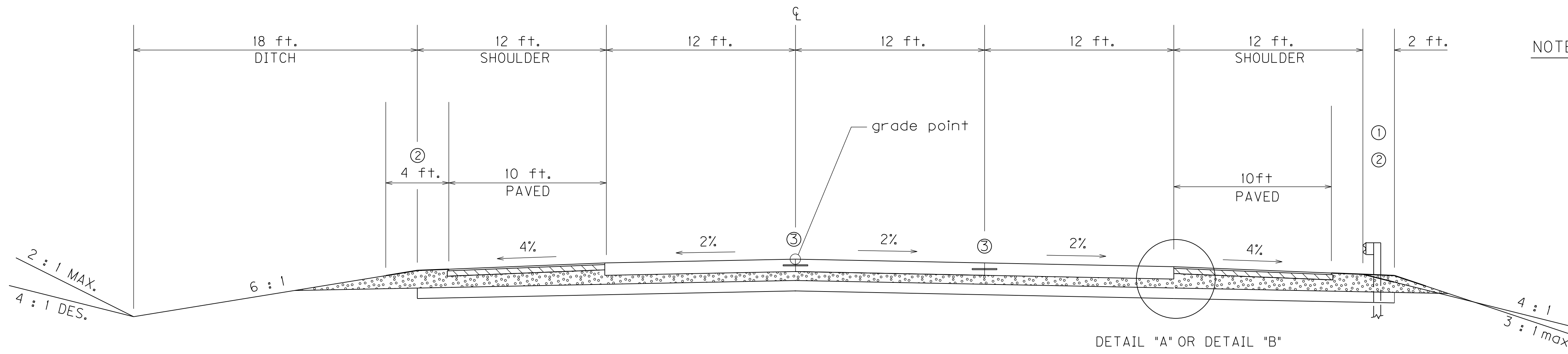
USER: min. jiang  
DATE PLOTTED: June 11, 2012

E-SHEET NAME: ROO200T

MicroStation v8.11.7.443

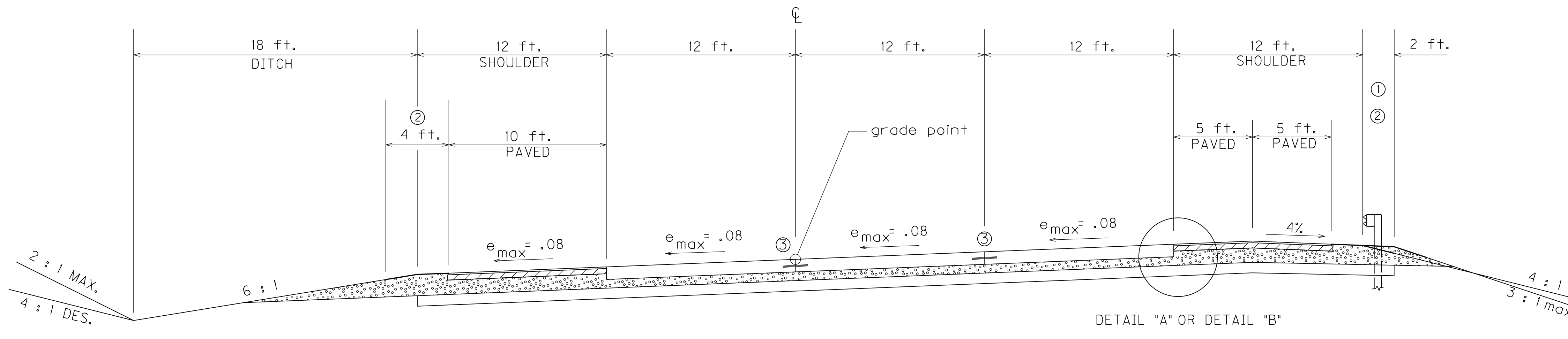
# TYPICAL SECTIONS

ALTERNATIVE PAVEMENT DESIGN-CONCRETE  
 PROPOSED 2 - LANE ROADWAY W/ TRUCK CLIMBING LANE  
 STA. 108+00 TO STA. 116+20



- NOTES:
- ① Shoulders shall be widened 2 ft. when guardrail is required.
  - ② Asphalt Seal required from outside edge of paved shoulders for a distance of 4.0 feet or 2.0 feet down the slope.  
  
Two applications of the following:  
  
Emulsified Asphalt RS-2 @ 2.4 LBS/SY  
Asphalt Seal Aggregate @ 20 LBS/SY
  - ③ Longitudinal Construction Joint or  
or  
Longitudinal Sawed Joint

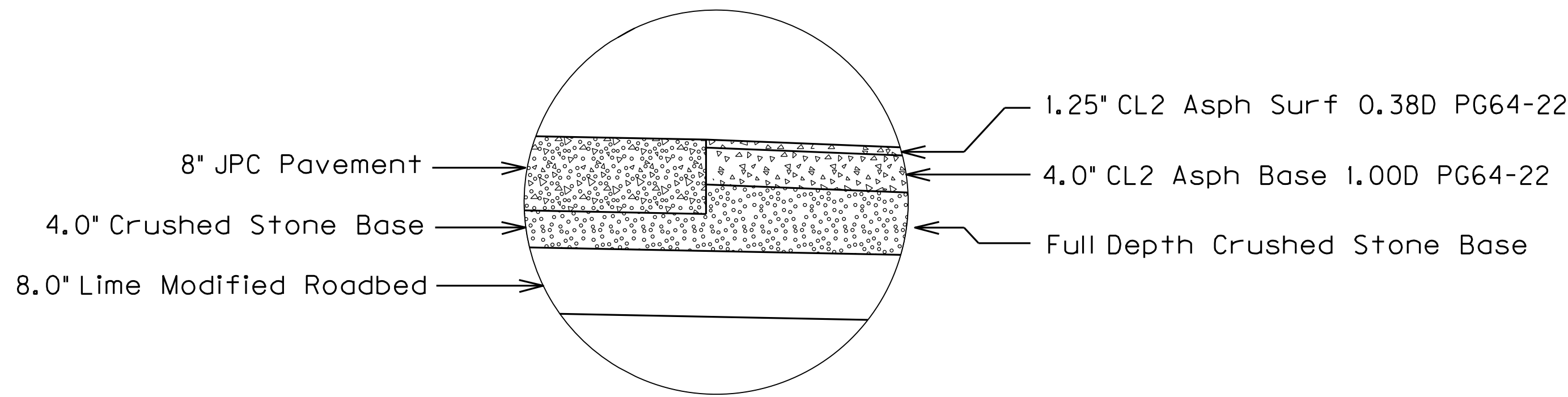
NORMAL SECTION



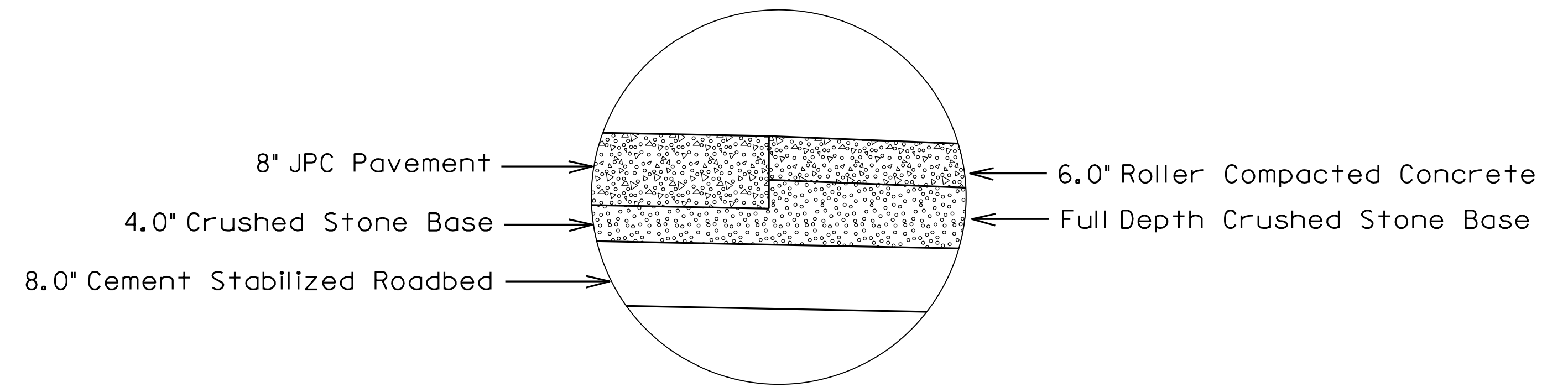
PAVEMENT DESIGN

<b>TRAFFIC LANES</b>	
JPC Pavement	8.0 in.
Crushed Stone Base	4.0 in.
Lime Modified Roadbed	8.0 in.
<b>SHOULDERS</b>	
CL2 Asph Surf 0.38D PG64-22	1.25 in.
CL2 Asph Base 1.00D PG64-22	4.0 in.
Crushed Stone Base	Full Depth
Cement Stabilized Roadbed	8.0 in.
OR	
Roller Compacted Concrete	6.0 in.
Crushed Stone Base	Full Depth
Cement Stabilized Roadbed	8.0 in.

SUPERELEVATED SECTION



DETAIL "A"  
ASPHALT SHOULDER



DETAIL "B"  
RCC SHOULDER

TYPICAL SECTION  
 ALT. DESIGN - CONCRETE  
 STA. 108+00 TO STA. 116+20

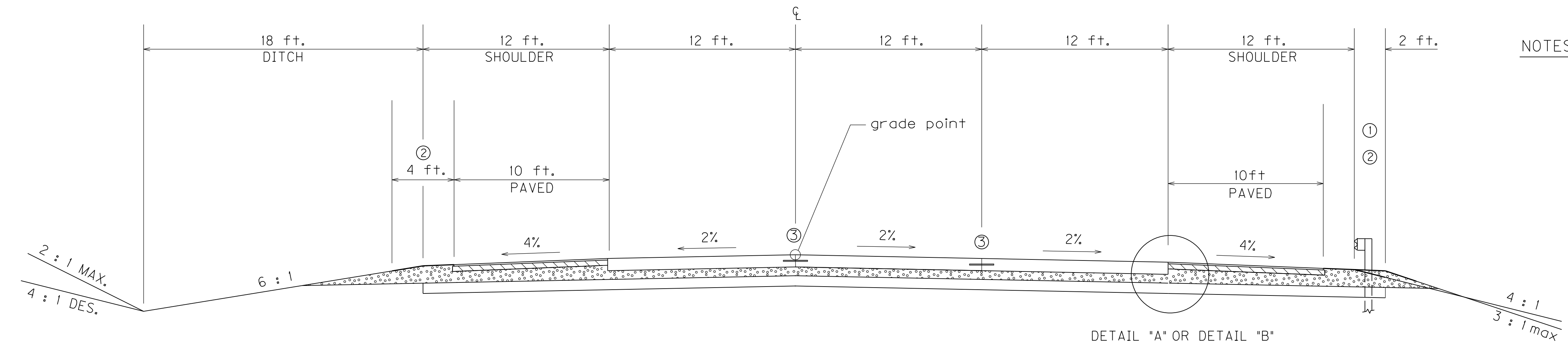
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 USER: min.jiang  
 DATE PLOTTED: June 11, 2012  
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 MicroStation v8.11.7.180



REVISD 06-11-2012

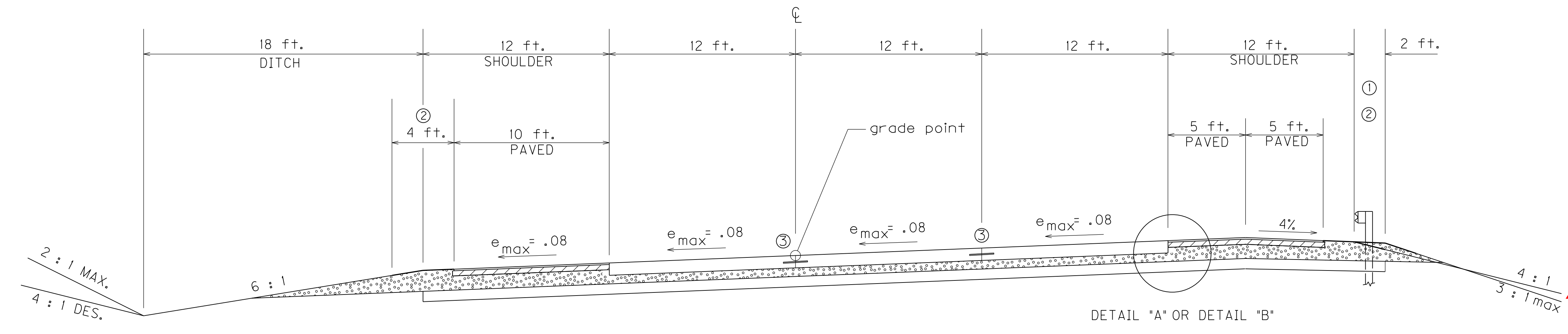
# TYPICAL SECTIONS

ALTERNATIVE PAVEMENT DESIGN-CONCRETE  
 PROPOSED 2 - LANE ROADWAY W/ TRUCK CLIMBING LANE  
 STA. 108+00 TO STA. 116+20



NORMAL SECTION

- NOTES:
- ① Shoulders shall be widened 2 ft. when guardrail is required.
  - ② Asphalt Seal required from outside edge of paved shoulders for a distance of 4.0 feet or 2.0 feet down the slope.  
  
Two applications of the following:  
  
Emulsified Asphalt RS-2 @ 2.4 LBS/SY  
Asphalt Seal Aggregate @ 20 LBS/SY
  - ③ Longitudinal Construction Joint or  
or  
Longitudinal Sawed Joint



SUPERELEVATED SECTION

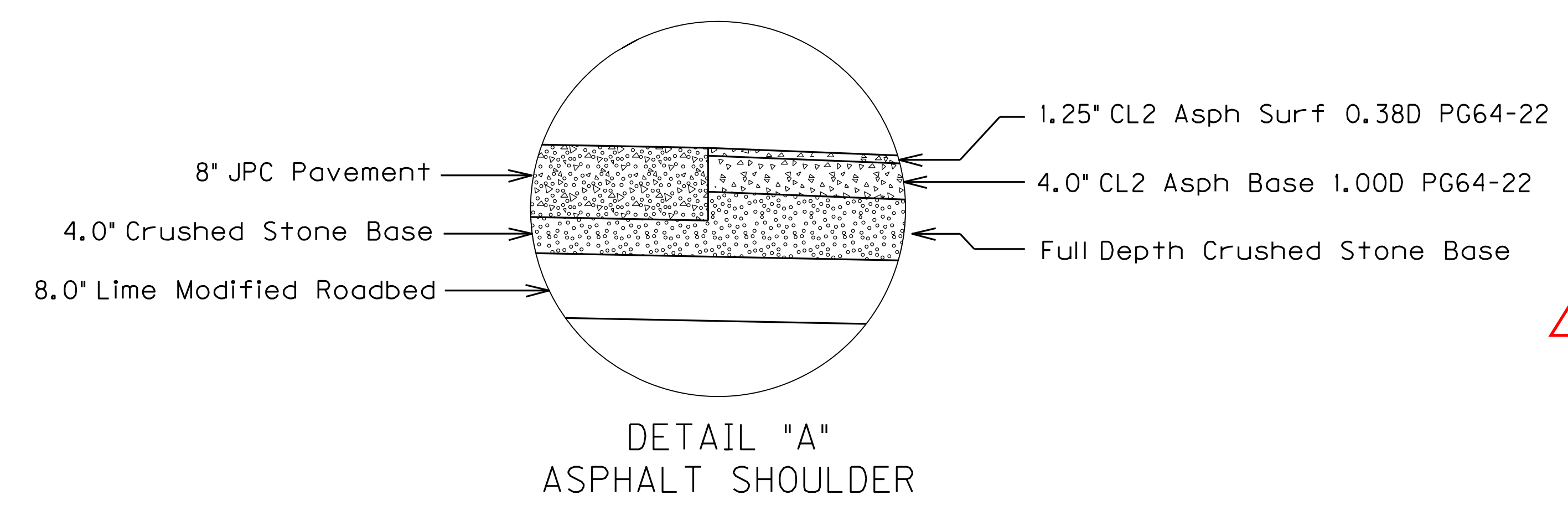
## PAVEMENT DESIGN

### TRAFFIC LANES

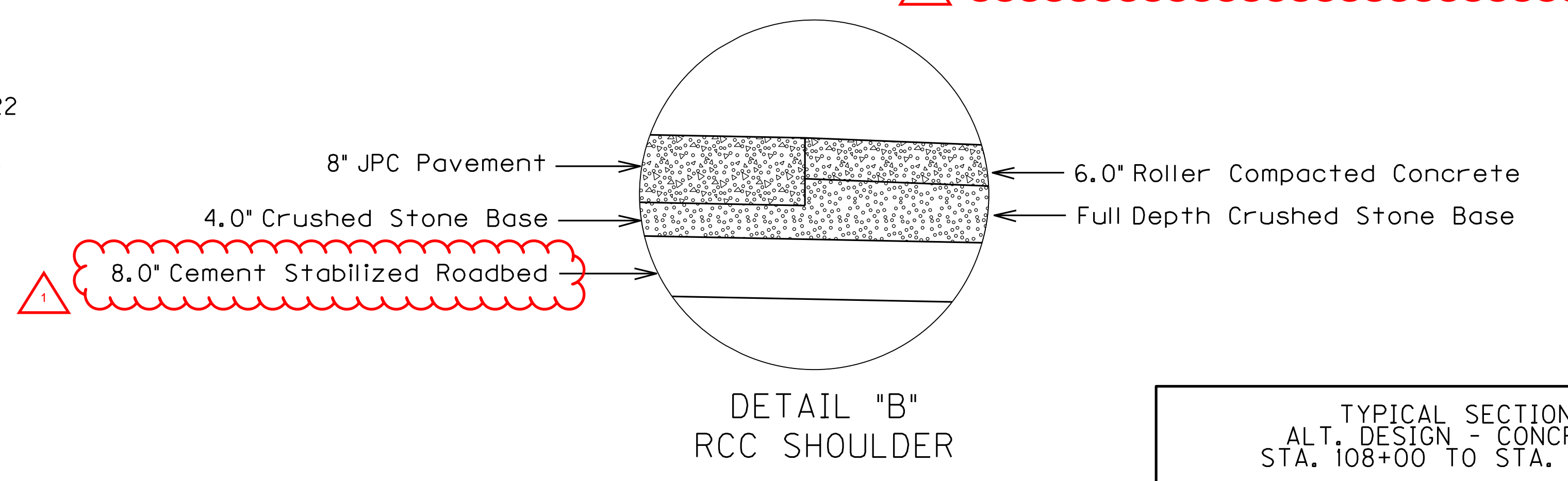
JPC Pavement	8.0 in.
Crushed Stone Base	4.0 in.
Lime Modified Roadbed	8.0 in.

### SHOULDERS

CL2 Asph Surf 0.38D PG64-22	1.25 in.
CL2 Asph Base 1.00D PG64-22	4.0 in.
Crushed Stone Base	Full Depth
<b>Cement Stabilized Roadbed</b>	<b>8.0 in.</b>
OR	
Roller Compacted Concrete	6.0 in.
Crushed Stone Base	Full Depth
<b>Cement Stabilized Roadbed</b>	<b>8.0 in.</b>



DETAIL "A"  
ASPHALT SHOULDER



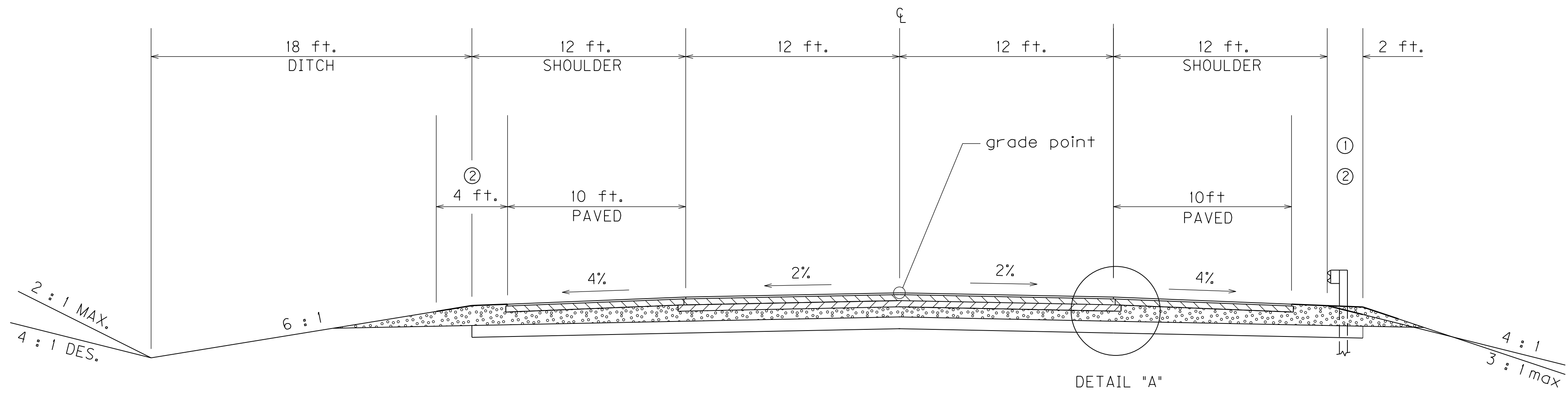
DETAIL "B"  
RCC SHOULDER

TYPICAL SECTION  
 ALT. DESIGN - CONCRETE  
 STA. 108+00 TO STA. 116+20

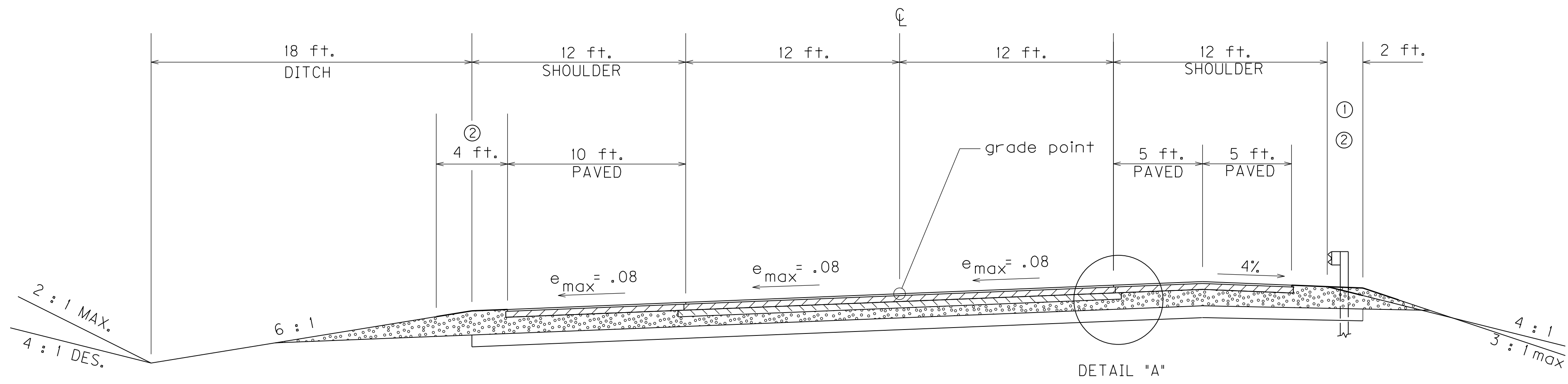
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 USER: min. jiang  
 DATE PLOTTED: June 11, 2012  
 E-SHEET NAME: ROO20ATS  
 MicroStation v8.11.7.180

# TYPICAL SECTIONS

PROPOSED 2 - LANE ROADWAY  
STA. 116+20 TO STA. 246+00



NORMAL SECTION



SUPERELEVATED SECTION

- NOTES:**
- ① Shoulders shall be widened 2 ft. when guardrail is required.
  - ② Asphalt Seal required from outside edge of paved shoulders for a distance of 4.0 feet or 2.0 feet down the slope.
- Two applications of the following:
- Emulsified Asphalt RS-2 @ 2.4 LBS/SY
  - Asphalt Seal Aggregate @ 20 LBS/SY

PAVEMENT DESIGN

TRAFFIC LANES

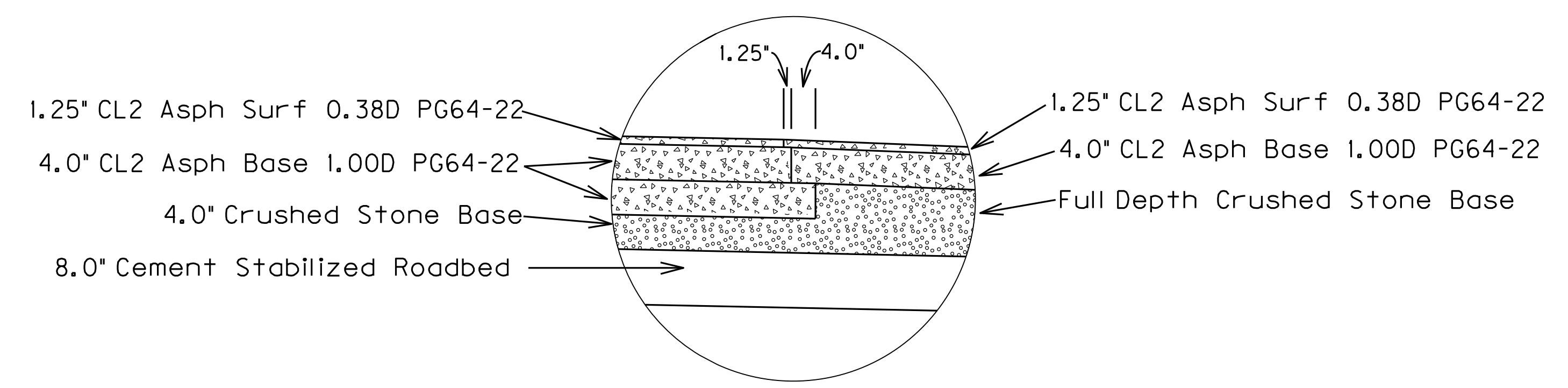
CL2 Asph Surf 0.38D PG64-22	1.25 in.
CL2 Asph Base 1.00D PG64-22	8.0 in. (4.0"+4.0")
Crushed Stone Base	4.0 in.
Cement Stabilized Roadbed	8.0 in.

SHOULDERS

CL2 Asph Surf 0.38D PG64-22	1.25 in.
CL2 Asph Base 1.00D PG64-22	4.0 in.
Crushed Stone Base	Full Depth
Cement Stabilized Roadbed	8.0 in.

**DESIGN CHANGE**

**CROSS-SECTIONS FOR THIS PROJECT WERE DEVELOPED FOR A PAVEMENT THICKNESS OF 16.25 INCHES. THE PAVEMENT DESIGN WAS LATER REVISED. TYPICAL SECTIONS WERE AND EARTHWORK QUANTITIES WERE ADJUSTED TO REFLECT THIS CHANGE. HOWEVER, CROSS-SECTIONS WERE NOT REVISED AND, IN THIS CASE, TYPICAL SECTIONS GOVERN OVER CROSS-SECTIONS. MAKE FINAL PAYMENT ON ADJUSTED QUANTITIES.**



DETAIL "A"

TYPICAL SECTION  
STA. 116+20 TO STA. 246+00

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USER: min. jiang  
DATE PLOTTED: June 11, 2012

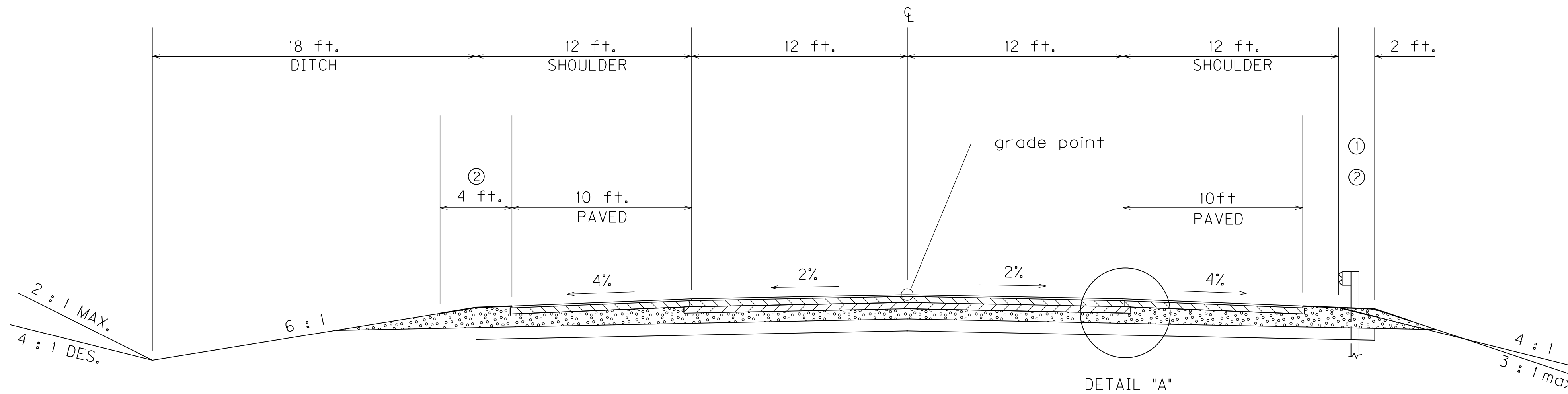
E-SHEET NAME: ROO20BTS

MicroStation v8.11.7.443

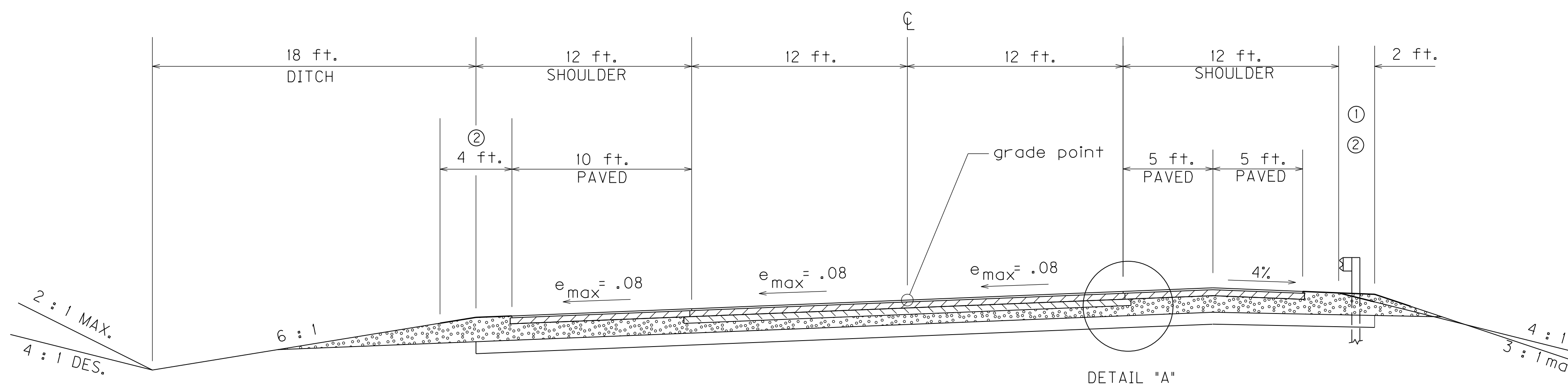


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PROPOSED 2 - LANE ROADWAY  
STA. 116+20 TO STA. 246+00



NORMAL SECTION



SUPERELEVATED SECTION

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## PAVEMENT DESIGN

### TRAFFIC LANES

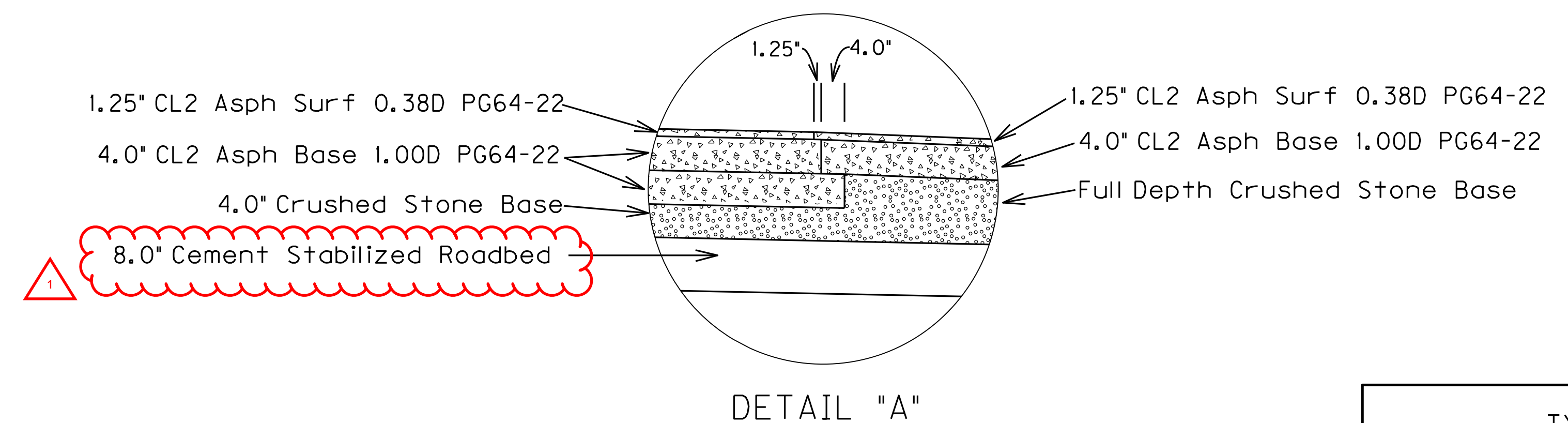
CL2 Asph Surf 0.38D PG64-22	1.25 in.
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DETAIL "A"

TYPICAL SECTION  
STA. 116+20 TO STA. 246+00

FILE NAME: C:\PWORK\MIN. JIANG\0618148\ROO20BTS.DGN

USER: min. jiang  
DATE PLOTTED: June 11, 2012

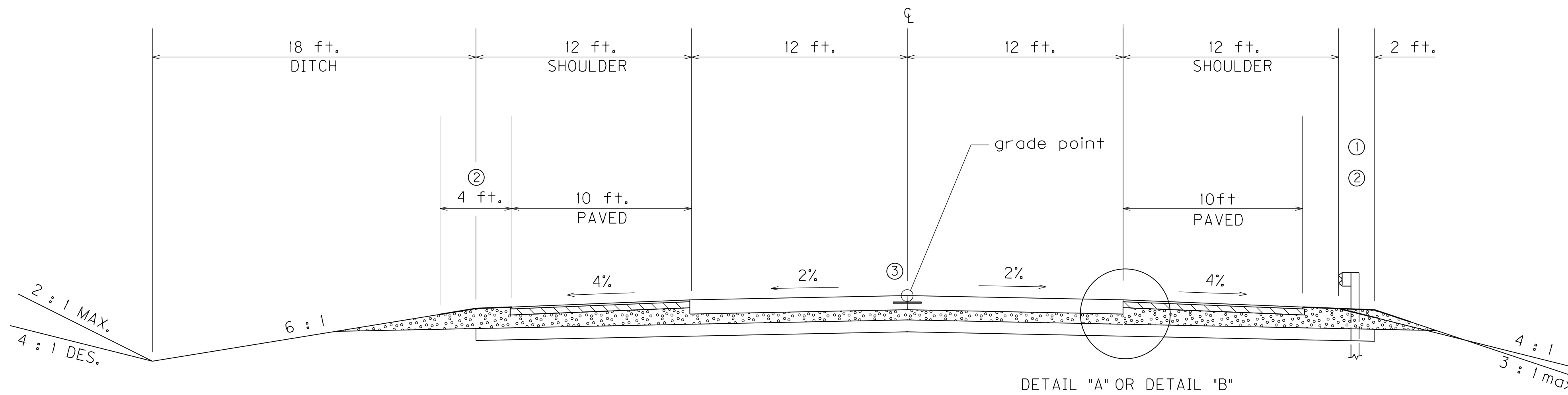
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MicroStation v8.11.7.443

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ALTERNATIVE PAVEMENT DESIGN-CONCRETE  
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 STA. 116+20 TO STA. 246+00

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Or  
Longitudinal Sawed Joint



NORMAL SECTION

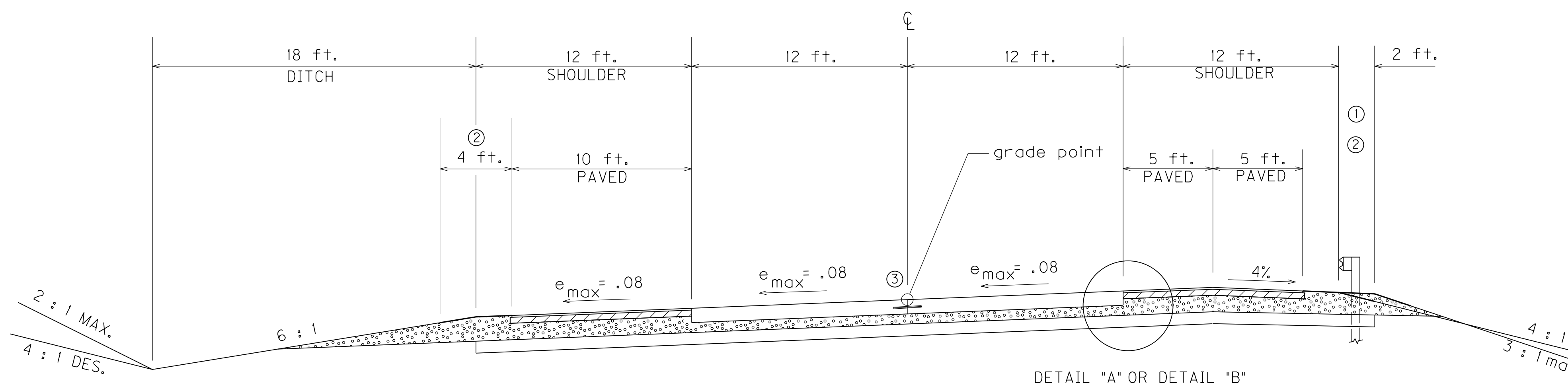
## PAVEMENT DESIGN

### TRAFFIC LANES

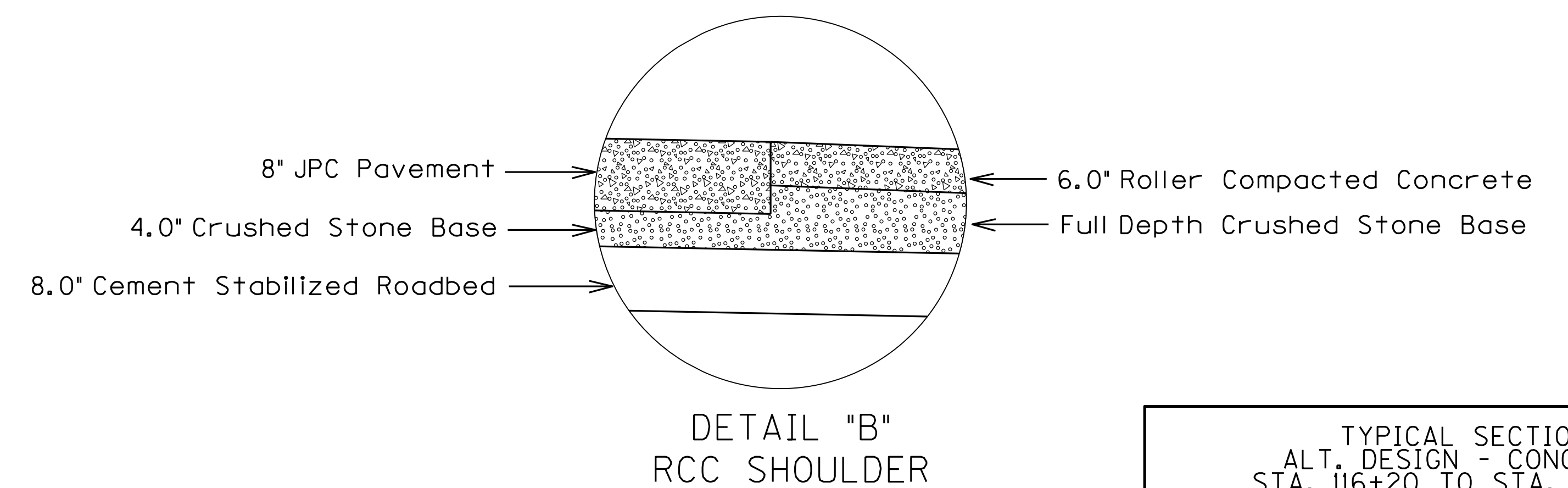
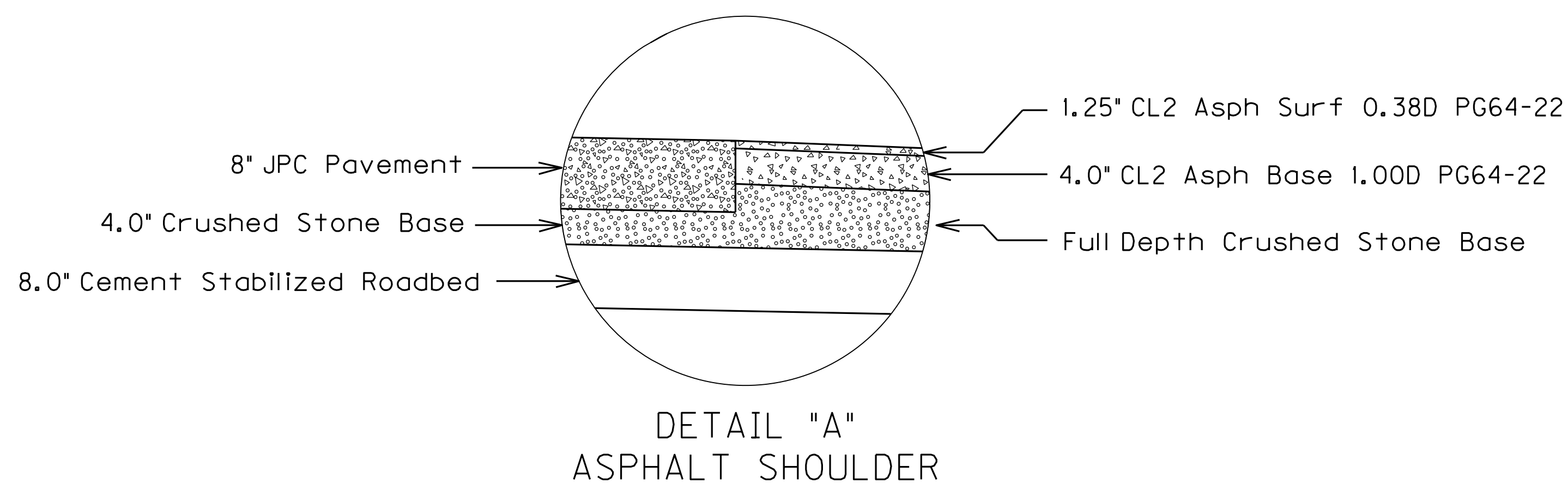
JPC Pavement	8.0 in.
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SUPERELEVATED SECTION



TYPICAL SECTION  
 ALT. DESIGN - CONCRETE  
 STA. 116+20 TO STA. 246+00

FILE NAME: C:\PWORK\MIN.JIANG\0618148\ROO20CTS.DGN

USER: min.jiang  
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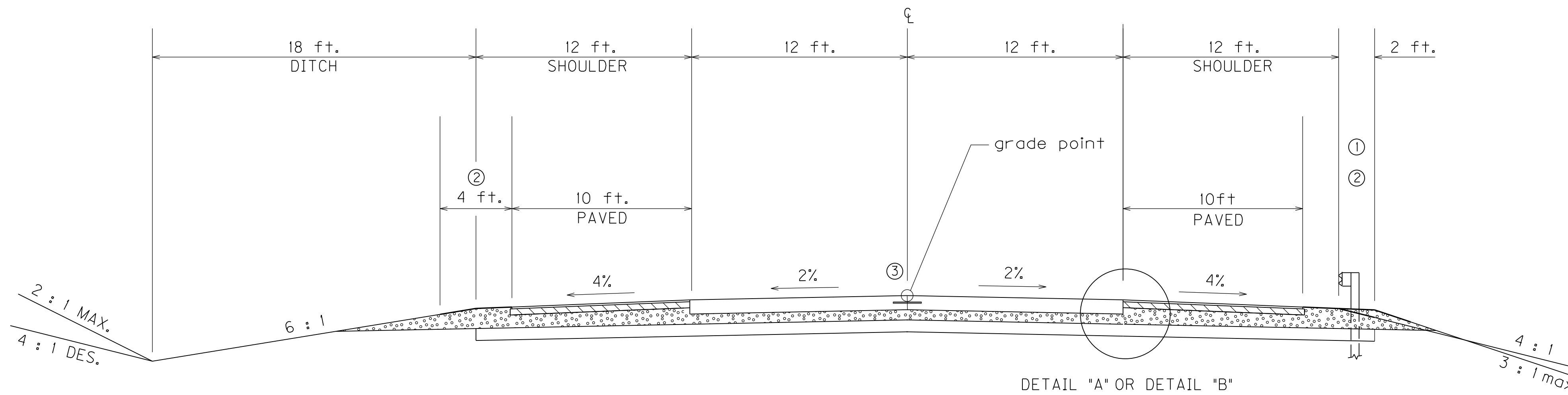
E-SHEET NAME: ROO20CTS

MicroStation v8.11.7.180

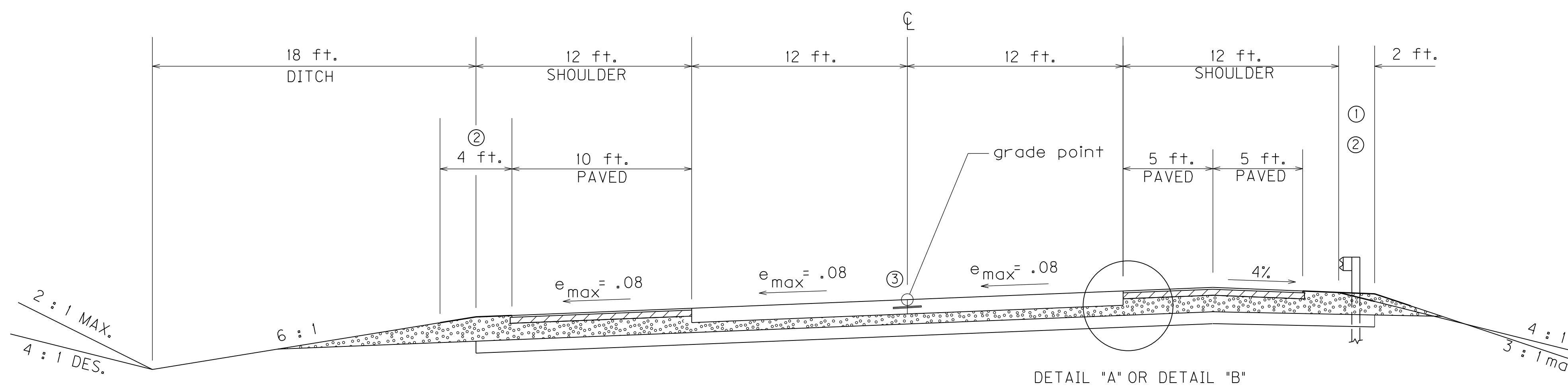
# TYPICAL SECTIONS

ALTERNATIVE PAVEMENT DESIGN-CONCRETE  
 PROPOSED 2 - LANE ROADWAY  
 STA. 116+20 TO STA. 246+00

- NOTES:
- ① Shoulders shall be widened 2 ft. when guardrail is required.
  - ② Asphalt Seal required from outside edge of paved shoulders for a distance of 4.0 feet or 2.0 feet down the slope.
- Two applications of the following:
- Emulsified Asphalt RS-2 @ 2.4 LBS/SY
  - Asphalt Seal Aggregate @ 20 LBS/SY
- ③ Longitudinal Construction Joint
  - Or
  - Longitudinal Sawed Joint



NORMAL SECTION



SUPERELEVATED SECTION

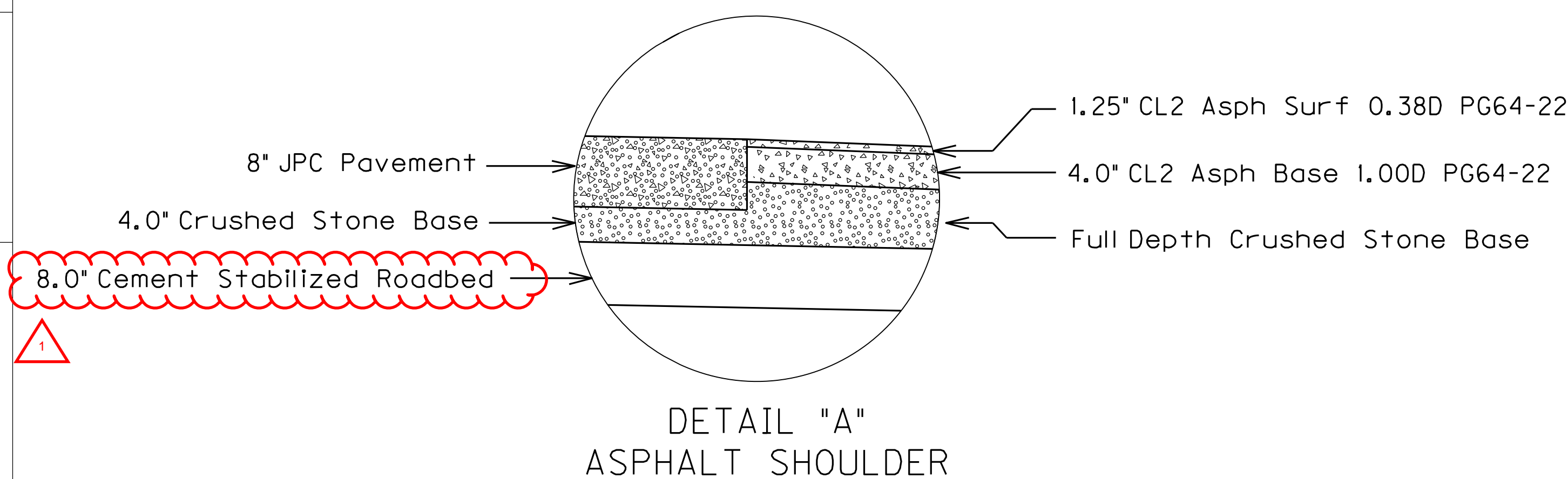
## PAVEMENT DESIGN

### TRAFFIC LANES

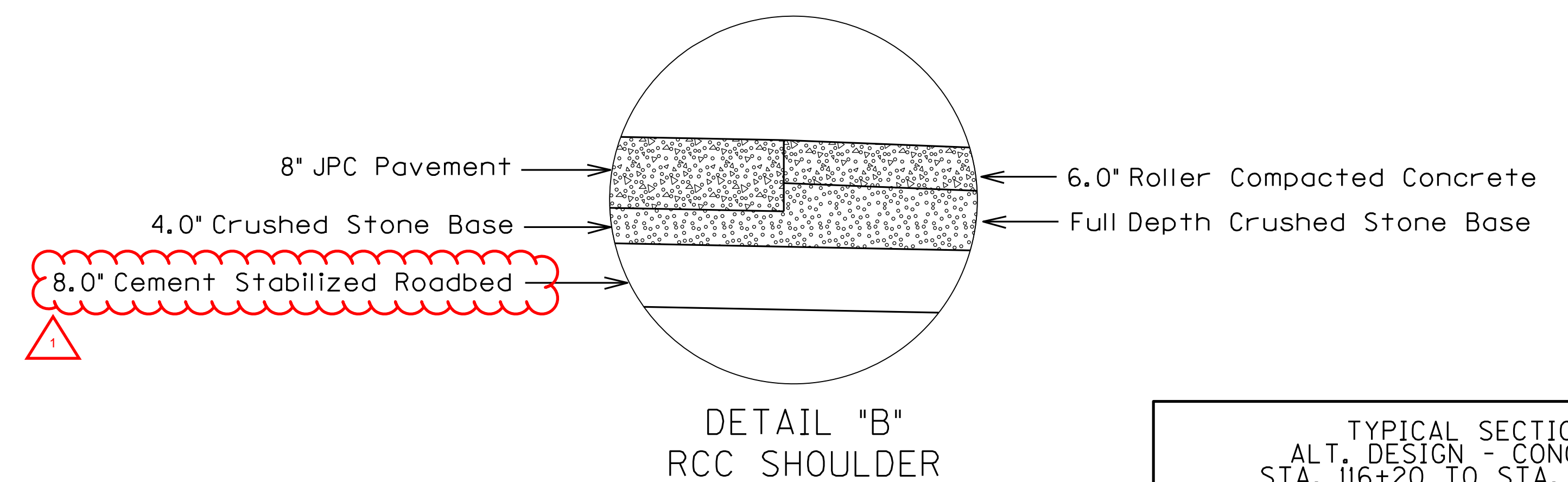
JPC Pavement	8.0 in.
Crushed Stone Base	4.0 in.
Cement Stabilized Roadbed	8.0 in.

### SHOULDERS

CL2 Asph Surf 0.38D PG64-22	1.25 in.
CL2 Asph Base 1.00D PG64-22	4.0 in.
Crushed Stone Base	Full Depth
Cement Stabilized Roadbed	8.0 in.
OR	
Roller Compacted Concrete	6.0 in.
Crushed Stone Base	Full Depth
Cement Stabilized Roadbed	8.0 in.



DETAIL "A"  
ASPHALT SHOULDER



DETAIL "B"  
RCC SHOULDER

TYPICAL SECTION  
 ALT. DESIGN - CONCRETE  
 STA. 116+20 TO STA. 246+00

FILE NAME: C:\PWORK\MIN.JIANG\0618148\ROO20CTS.DGN

USER: min.jiang  
 DATE PLOTTED: June 11, 2012

E-SHEET NAME: ROO20CTS

MicroStation v8.11.7.180



### PAVING AREAS - ASPHALT ALTERNATE

ITEM	MAINLINE	ACCESS RD. #1	ACCESS RD. #2	ACCESS RD. #3	CONNECTOR #1	CONNECTOR #2	CONNECTOR #3	CONNECTOR #4	KY 77 #1	KY 77 #2	KY 1242	ENTRANCES	TOTAL PROJECT
	S	Q	U	A	R	E	Y	A	R	D	S		
1.25 in CL2 ASPH. SURF. 0.38D PG64-22	85126	1571	459		1275	1581	1400	1329	2540	4029	9326	2472	111108
1.00 in CL2 ASPH. SURF. 0.38D PG64-22	3082 (W)												3082
8.00 in CL2 ASPH BASE 1.00D PG64-22	45378												45378
4.00 in CL2 ASPH BASE 1.00D PG64-22	41195												41195
3.50 in CL2 ASPH BASE 1.00D PG64-22		1588			1285	1593	1411	1339	2557	4056	9389		23218
3.00 in CL2 ASPH BASE 1.00D PG64-22	3150 (W)												3150
2.00 in CL2 ASPH BASE 0.75D PG64-22			469									2516	2985
PCC ENT PAVEMENT												68	68
13.25 in CRUSHED STONE BASE	11316												11316
12.75 in CRUSHED STONE BASE							277	178	128		817		1400
8.00 in CRUSHED STONE BASE	34385												34385
8.00 in CRUSHED STONE BASE	3250 (W)	1634			1312	1626	1440	1368	2606	4131	9565		26932
4.00 in CRUSHED STONE BASE	43930		470	1157								9799	55356
FULL DEPTH CRUSHED STONE BASE (1)	5264				68	84	75	72	123	196	454		6336
ASPHALT SEAL AGGREGATE	25094				369	456	683	568	1307	1038	3226		32741
EMULSIFIED ASPHALT RS-2	25094				369	456	683	568	1307	1038	3226		32741
TRAFFIC-BOUND BASE (6)													8376

(W) TEMPORARY WIDENING QUANTITIES, REFER TO TYPICAL SECTIONS FOR DETAILS.

### PAVING SUMMARY - ASPHALT ALTERNATE

ITEM CODE	ITEM	UNIT	MAINLINE	ACCESS RD. #1	ACCESS RD. #2	ACCESS RD. #3	CONNECTOR #1	CONNECTOR #2	CONNECTOR #3	CONNECTOR #4	KY 77 #1	KY 77 #2	KY 1242	ENTRANCES	TOTAL PROJECT
301	CL2 ASPH SURF 0.38D PG64-22 (2)	TON	6022	108	32		88	109	97	92	175	277	641	170	7811
212	CL2 ASPH BASE 1.00D PG64-22 (2)	TON	29549	306			247	307	272	258	492	781	1807		34361
221	CL2 ASPH BASE 0.75D PG64-22 (2)	TON			52									290	342
100	ASPHALT SEAL AGGREGATE	TON	502				8	9	14	12	26	21	65		657
291	EMULSIFIED ASPHALT RS-2	TON	60.3				1.0	1.1	1.7	1.5	3.1	2.5	7.8		79
3	CRUSHED STONE BASE (3)	TON	46934	752	109	266	744	922	1021	909	1547	2306	5939	2254	63703
2099	PCC ENT PAVEMENT - 6 INCH	SY												68	68
2091	REMOVING PAVEMENT	SY	1670									252	2981		4903
2585	EDGE KEY	LF	125	12	12		21	20	20	20	20	19	18		287
8	CEMENT STABILIZED ROADBED	SY	85461												85461
02542	CEMENT	TON	1539												1539
2702	SAND FOR BLOTTER (5)	TON	214												214
358	ASPHALT CURING SEAL (4)	TON	85.5												85.5
20	TRAFFIC-BOUND BASE	TON													838
2230	EMBANKMENT-IN-PLACE	CU. YD.													1,298,931

NOTES  
ALL ASPHALT MIXTURES ARE ESTIMATED AT 100 LBS. PER SQ. YD. PER INCH OF DEPTH UNLESS NOTED OTHERWISE.

- ① QUANTITY IN CUBIC YARDS
- ② ESTIMATED AT 100 LBS. PER SQ. YD. PER INCH OF DEPTH.
- ③ ESTIMATED AT 115 LBS. PER SQ. YD. PER INCH OF DEPTH.
- ④ ESTIMATED AT (FOR CEMENT STABILIZED ROADBED) 2.0 LB/SQ. YD. (11 KG/SQ. M.)
- ⑤ ESTIMATED AT 2.7 TO 3 LB/SQ. YD. (1.1 TO 1.6 KG/SQ. M.)
- ⑥ ESTIMATED AT 100 LBS. PER SQ. YD. PER INCH OF DEPTH FOR ENTRANCE ACCESS DURING CONSTRUCTION

PAVEMENT SUMMARY  
ASPHALT

### PAVING AREAS - ASPHALT ALTERNATE

ITEM	MAINLINE	S	Q	U	A	R	E	Y	A	R	D	S	
													ACCESS RD. #1
1.25 in CL2 ASPH. SURF. 0.38D PG64-22	85126	1571	459		1275	1581	1400	1329	2540	4029	9326	2472	111108
1.00 in CL2 ASPH. SURF. 0.38D PG64-22	3082 (W)												3082
8.00 in CL2 ASPH BASE 1.00D PG64-22	45378												45378
4.00 in CL2 ASPH BASE 1.00D PG64-22	41195												41195
3.50 in CL2 ASPH BASE 1.00D PG64-22		1588			1285	1593	1411	1339	2557	4056	9389		23218
3.00 in CL2 ASPH BASE 1.00D PG64-22	3150 (W)												3150
2.00 in CL2 ASPH BASE 0.75D PG64-22			469									2516	2985
PCC ENT PAVEMENT												68	68
13.25 in CRUSHED STONE BASE	11316												11316
12.75 in CRUSHED STONE BASE							277	178	128		817		1400
8.00 in CRUSHED STONE BASE	34385												34385
8.00 in CRUSHED STONE BASE	3250 (W)	1634			1312	1626	1440	1368	2606	4131	9565		26932
4.00 in CRUSHED STONE BASE	43930		470	1157	68	84	75	72	123	196	454	9799	55356
FULL DEPTH CRUSHED STONE BASE (1)	5264												6336
ASPHALT SEAL AGGREGATE	25094				369	456	683	568	1307	1038	3226		32741
EMULSIFIED ASPHALT RS-2	25094				369	456	683	568	1307	1038	3226		32741
TRAFFIC-BOUND BASE													8376

(W) TEMPORARY WIDENING QUANTITIES, REFER TO TYPICAL SECTIONS FOR DETAILS.

### PAVING SUMMARY - ASPHALT ALTERNATE

ITEM CODE	ITEM	UNIT	MAINLINE	ACCESS RD. #1	ACCESS RD. #2	ACCESS RD. #3	CONNECTOR #1	CONNECTOR #2	CONNECTOR #3	CONNECTOR #4	KY 77 #1	KY 77 #2	KY 1242	ENTRANCES	TOTAL PROJECT
301	CL2 ASPH SURF 0.38D PG64-22 (2)	TON	6022	108	32		88	109	97	92	175	277	641	170	7811
212	CL2 ASPH BASE 1.00D PG64-22 (2)	TON	29549	306			247	307	272	258	492	781	1807		34361
221	CL2 ASPH BASE 0.75D PG64-22 (2)	TON			52									290	342
100	ASPHALT SEAL AGGREGATE	TON	502				8	9	14	12	26	21	65		657
291	EMULSIFIED ASPHALT RS-2	TON	60.3				1.0	1.1	1.7	1.5	3.1	2.5	7.8		79
3	CRUSHED STONE BASE (3)	TON	46934	752	109	266	744	922	1021	909	1547	2306	5939	2254	63703
2099	PCC ENT PAVEMENT - 6 INCH	SY												68	68
2091	REMOVING PAVEMENT	SY	1670									252	2981		4903
2585	EDGE KEY	LF	125	12	12		21	20	20	20	20	19	18		287
8	CEMENT STABILIZED ROADBED	SY	85461												85461
02542	CEMENT	TON	1539												1539
2702	SAND FOR BLOTTER (5)	TON	214												214
358	ASPHALT CURING SEAL (4)	TON	85.5												85.5
20	TRAFFIC-BOUND BASE	TON													838
2230	EMBANKMENT-IN-PLACE	CU. YD.													1,298,931

REVISD 06-11-2012

#### NOTES

ALL ASPHALT MIXTURES ARE ESTIMATED AT 110 LBS. PER SQ. YD. PER INCH OF DEPTH, UNLESS NOTED OTHERWISE.

(1) QUANTITY IN CUBIC YARDS

(2) ESTIMATED AT 110 LBS. PER SQ. YD. PER INCH OF DEPTH.

(3) ESTIMATED AT 115 LBS. PER SQ. YD. PER INCH OF DEPTH.

(4) ESTIMATED AT (FOR CEMENT STABILIZED ROADBED) 2.0 LB/SQ. YD (1.1 KG/SQ. M.)

(5) ESTIMATED AT 2 TO 3 LB/SQ. YD. (1.1 TO 1.6 KG/SQ. M.)

(6) ESTIMATED AT 100 LBS. PER SQ. YD. PER INCH OF DEPTH FOR ENTRANCE ACCESS DURING CONSTRUCTION

### PAVING AREAS - CONCRETE WITH ASPHALT SHOULDER

ITEM	MAINLINE	ACCESS RD. #1	ACCESS RD. #2	ACCESS RD. #3	CONNECTOR #1	CONNECTOR #2	CONNECTOR #3	CONNECTOR #4	KY 77 #1	KY 77 #2	KY 1242	ENTRANCES	TOTAL PROJECT
	S	Q	U	A	R	E	Y	A	R	D	S		
1.25 in CL2 ASPH. SURF. 0.38D PG64-22	41195	1571	459		1275	1581	1400	1329	2540	4029	9326	2472	111108
1.00 in CL2 ASPH. SURF. 0.38D PG64-22	3082 <sup>(W)</sup>												3082
8.00 in JPC	43931												43931
4.00 in CL2 ASPH BASE 1.00D PG64-22	41195												41195
3.50 in CL2 ASPH BASE 1.00D PG64-22		1588			1285	1593	1411	1339	2557	4056	9389		23218
3.00 in CL2 ASPH BASE 1.00D PG64-22	3150 <sup>(W)</sup>												3150
2.00 in CL2 ASPH BASE 0.75D PG64-22			469									2516	2985
PCC ENT PAVEMENT												68	68
12.75 in CRUSHED STONE BASE							277	178	128		817		1400
12.00 in CRUSHED STONE BASE	11316												11316
6.75 in CRUSHED STONE BASE	34385												34385
8.00 in CRUSHED STONE BASE	3250 <sup>(W)</sup>	1634			1312	1626	1440	1368	2606	4131	9565		26932
4.00 in CRUSHED STONE BASE	43930		470	1157								9799	55356
FULL DEPTH CRUSHED STONE BASE <sup>(1)</sup>	5264				68	84	75	72	123	196	454		6336
ASPHALT SEAL AGGREGATE	25094				369	456	683	568	1307	1038	3226		32741
EMULSIFIED ASPHALT RS-2	25094				369	456	683	568	1307	1038	3226		32741
TRAFFIC-BOUND BASE <sup>(6)</sup>													8376

<sup>(W)</sup> TEMPORARY WIDENING QUANTITIES, REFER TO TYPICAL SECTIONS FOR DETAILS.

### PAVING SUMMARY - CONCRETE WITH ASPHALT SHOULDER

ITEM CODE	ITEM	UNIT	MAINLINE	ACCESS RD. #1	ACCESS RD. #2	ACCESS RD. #3	CONNECTOR #1	CONNECTOR #2	CONNECTOR #3	CONNECTOR #4	KY 77 #1	KY 77 #2	KY 1242	ENTRANCES	TOTAL PROJECT
301	CL2 ASPH SURF 0.38D PG64-22 <sup>(2)</sup>	TON	3002	108	32		88	109	97	92	175	277	641	170	4791
212	CL2 ASPH BASE 1.00D PG64-22 <sup>(2)</sup>	TON	9583	306			247	307	272	258	492	781	1807		14053
221	CL2 ASPH BASE 0.75D PG64-22 <sup>(2)</sup>	TON			52									290	342
100	ASPHALT SEAL AGGREGATE	TON	502				8	9	14	12	26	21	65		657
291	EMULSIFIED ASPHALT RS-2	TON	60.3				1.0	1.1	1.7	1.5	3.1	2.5	7.8		79
3	CRUSHED STONE BASE <sup>(3)</sup>	TON	44957	752	109	266	744	922	1021	909	1547	2306	5939	2254	61726
2099	PCC ENT PAVEMENT - 6 INCH	SY												68	68
2091	REMOVING PAVEMENT	SY	1670									252	2981		4903
2585	EDGE KEY	LF	125	12	12		21	20	20	20	20	19	18		287
8	CEMENT STABILIZED ROADBED	SY	85461												85461
02542	CEMENT	TON	1539												1539
2702	SAND FOR BLOTTER <sup>(5)</sup>	TON	214												214
358	ASPHALT CURING SEAL <sup>(4)</sup>	TON	85.5												85.5
20	TRAFFIC-BOUND BASE	TON													838
2084	JPC PAVEMENT - 8 INCH	SQ. YD.	43931												43931
2230	EMBANKMENT-IN-PLACE	CU. YD.													1,298,931

**NOTES**

ALL ASPHALT MIXTURES ARE ESTIMATED AT 100 LBS. PER SQ. YD. PER INCH OF DEPTH UNLESS NOTED OTHERWISE.

<sup>(1)</sup> QUANTITY IN CUBIC YARDS

<sup>(2)</sup> ESTIMATED AT 100 LBS. PER SQ. YD. PER INCH OF DEPTH.

<sup>(3)</sup> ESTIMATED AT 15 LBS. PER SQ. YD. PER INCH OF DEPTH.

<sup>(4)</sup> ESTIMATED AT (FOR CEMENT STABILIZED ROADBED) 2.0 LB/SQ. YD. (11 KG/SQ. M.)

<sup>(5)</sup> ESTIMATED AT 2.7 TO 3 LB/SQ. YD. (1.1 TO 1.6 KG/SQ. M.)

<sup>(6)</sup> ESTIMATED AT 100 LBS. PER SQ. YD. PER INCH OF DEPTH FOR ENTRANCE ACCESS DURING CONSTRUCTION

PAVEMENT SUMMARY  
CONCRETE WITH ASPHALT SHOULDER



### PAVING AREAS - CONCRETE WITH ASPHALT SHOULDER

ITEM	MAINLINE	ACCESS RD. #1	ACCESS RD. #2	ACCESS RD. #3	CONNECTOR #1	CONNECTOR #2	CONNECTOR #3	CONNECTOR #4	KY 77 #1	KY 77 #2	KY 1242	ENTRANCES	TOTAL PROJECT
	S	Q	U	A	R	E	Y	A	R	D	S		
1.25 in CL2 ASPH. SURF. 0.38D PG64-22	41195	1571	459		1275	1581	1400	1329	2540	4029	9326	2472	111108
1.00 in CL2 ASPH. SURF. 0.38D PG64-22	3082 <sup>(W)</sup>												3082
8.00 in JPC	43931												43931
4.00 in CL2 ASPH BASE 1.00D PG64-22	41195												41195
3.50 in CL2 ASPH BASE 1.00D PG64-22		1588			1285	1593	1411	1339	2557	4056	9389		23218
3.00 in CL2 ASPH BASE 1.00D PG64-22	3150 <sup>(W)</sup>												3150
2.00 in CL2 ASPH BASE 0.75D PG64-22			469									2516	2985
PCC ENT PAVEMENT												68	68
12.75 in CRUSHED STONE BASE							277	178	128		817		1400
12.00 in CRUSHED STONE BASE	11316												11316
6.75 in CRUSHED STONE BASE	34385												34385
8.00 in CRUSHED STONE BASE	3250 <sup>(W)</sup>	1634			1312	1626	1440	1368	2606	4131	9565		26932
4.00 in CRUSHED STONE BASE	43930		470	1157								9799	55356
FULL DEPTH CRUSHED STONE BASE <sup>(1)</sup>	5264				68	84	75	72	123	196	454		6336
ASPHALT SEAL AGGREGATE	25094				369	456	683	568	1307	1038	3226		32741
EMULSIFIED ASPHALT RS-2	25094				369	456	683	568	1307	1038	3226		32741
TRAFFIC-BOUND BASE <sup>(6)</sup>													8376

<sup>(W)</sup> TEMPORARY WIDENING QUANTITIES, REFER TO TYPICAL SECTIONS FOR DETAILS.

### PAVING SUMMARY - CONCRETE WITH ASPHALT SHOULDER

ITEM CODE	ITEM	UNIT	MAINLINE	ACCESS RD. #1	ACCESS RD. #2	ACCESS RD. #3	CONNECTOR #1	CONNECTOR #2	CONNECTOR #3	CONNECTOR #4	KY 77 #1	KY 77 #2	KY 1242	ENTRANCES	TOTAL PROJECT
301	CL2 ASPH SURF 0.38D PG64-22 <sup>(2)</sup>	TON	3002	108	32		88	109	97	92	175	277	641	170	4791
212	CL2 ASPH BASE 1.00D PG64-22 <sup>(2)</sup>	TON	9583	306			247	307	272	258	492	781	1807		14053
221	CL2 ASPH BASE 0.75D PG64-22 <sup>(2)</sup>	TON			52									290	342
100	ASPHALT SEAL AGGREGATE	TON	502				8	9	14	12	26	21	65		657
291	EMULSIFIED ASPHALT RS-2	TON	60.3				1.0	1.1	1.7	1.5	3.1	2.5	7.8		79
3	CRUSHED STONE BASE <sup>(3)</sup>	TON	44957	752	109	266	744	922	1021	909	1547	2306	5939	2254	61726
2099	PCC ENT PAVEMENT - 6 INCH	SY												68	68
2091	REMOVING PAVEMENT	SY	1670									252	2981		4903
2585	EDGE KEY	LF	125	12	12		21	20	20	20	20	19	18		287
8	CEMENT STABILIZED ROADBED	SY	85461												85461
02542	CEMENT	TON	1539												1539
2702	SAND FOR BLOTTER <sup>(5)</sup>	TON	214												214
358	ASPHALT CURING SEAL <sup>(4)</sup>	TON	85.5												85.5
20	TRAFFIC-BOUND BASE	TON													838
2084	JPC PAVEMENT - 8 INCH	SQ. YD.	43931												43931
2230	EMBANKMENT-IN-PLACE	CU. YD.													1,298,931

ALL ASPHALT MIXTURES ARE ESTIMATED AT 100 LBS. PER SQ. YD. PER INCH OF DEPTH UNLESS NOTED OTHERWISE.

**NOTES**

- <sup>(1)</sup> QUANTITY IN CUBIC YARDS
- <sup>(2)</sup> ESTIMATED AT 100 LBS. PER SQ. YD. PER INCH OF DEPTH.
- <sup>(3)</sup> ESTIMATED AT 15 LBS. PER SQ. YD. PER INCH OF DEPTH.
- <sup>(4)</sup> ESTIMATED AT 2.0 LB/SQ. YD. (11 KG/SQ. M.) (FOR CEMENT STABILIZED ROADBED)
- <sup>(5)</sup> ESTIMATED AT 2.7 TO 3 LB/SQ. YD. (1.1 TO 1.6 KG/SQ. M.)
- <sup>(6)</sup> ESTIMATED AT 100 LBS. PER SQ. YD. PER INCH OF DEPTH FOR ENTRANCE ACCESS DURING CONSTRUCTION

REVISSED 06-11-2012

PAVEMENT SUMMARY CONCRETE WITH ASPHALT SHOULDER

### PAVING AREAS - CONCRETE WITH RCC SHOULDER

ITEM	MAINLINE	ACCESS RD. #1	ACCESS RD. #2	ACCESS RD. #3	CONNECTOR #1	CONNECTOR #2	CONNECTOR #3	CONNECTOR #4	KY 77 #1	KY 77 #2	KY 1242	ENTRANCES	TOTAL PROJECT
													S
1.25 in CL2 ASPH. SURF. 0.38D PG64-22		1571	459		1275	1581	1400	1329	2540	4029	9326	2472	69913
1.00 in CL2 ASPH. SURF. 0.38D PG64-22	3082 (W)												3082
8.00 in JPC	43931												43931
6.00 in RCC	41195												41195
3.00 in CL2 ASPH. BASE 1.00D PG64-22	3150 (W)												3150
3.50 in CL2 ASPH. BASE 1.00D PG64-22		1588			1285	1593	1411	1339	2557	4056	9389		23218
2.00 in CL2 ASPH. BASE 0.75D PG64-22			469									2516	2985
PCC ENT PAVEMENT												68	68
12.75 in CRUSHED STONE BASE							277	178	128		817		1400
12.00 in CRUSHED STONE BASE	11316												11316
6.00 in CRUSHED STONE BASE	34385												34385
8.00 in CRUSHED STONE BASE	3250 (W)	1634			1312	1626	1440	1368	2606	4131	9565		26932
4.00 in CRUSHED STONE BASE	43930		470	1157								9799	55356
FULL DEPTH CRUSHED STONE BASE (1)	5264				68	84	75	72	123	196	454		6336
ASPHALT SEAL AGGREGATE	25094				369	456	683	568	1307	1038	3226		32741
EMULSIFIED ASPHALT RS-2	25094				369	456	683	568	1307	1038	3226		32741
TRAFFIC-BOUND BASE (6)													8376

(W) TEMPORARY WIDENING QUANTITIES, REFER TO TYPICAL SECTIONS FOR DETAILS.

### PAVING SUMMARY - CONCRETE WITH RCC SHOULDER

ITEM CODE	ITEM	UNIT	MAINLINE	ACCESS RD. #1	ACCESS RD. #2	ACCESS RD. #3	CONNECTOR #1	CONNECTOR #2	CONNECTOR #3	CONNECTOR #4	KY 77 #1	KY 77 #2	KY 1242	ENTRANCES	TOTAL PROJECT
301	CL2 ASPH SURF 0.38D PG64-22 (2)	TON	170	108	32		88	109	97	92	175	277	641	170	1959
212	CL2 ASPH BASE 1.00D PG64-22 (2)	TON	520	306			247	307	272	258	492	781	1807		4990
221	CL2 ASPH BASE 0.75D PG64-22 (2)	TON			52									290	342
100	ASPHALT SEAL AGGREGATE	TON	502				8	9	14	12	26	21	65		657
291	EMULSIFIED ASPHALT RS-2	TON	60.3				1.0	1.1	1.7	1.5	3.1	2.5	7.8		79
3	CRUSHED STONE BASE (3)	TON	43474	752	109	266	744	922	1021	909	1547	2306	5939	2254	60243
2099	PCC ENT PAVEMENT - 6 INCH	SY												68	68
2091	REMOVING PAVEMENT	SY	1670									252	2981		4903
2585	EDGE KEY	LF	125	12	12		21	20	20	20	20	19	18		287
8	CEMENT STABILIZED ROADBED	SY	85461												85461
02542	CEMENT	TON	1539												1539
2702	SAND FOR BLOTTER (5)	TON	214												214
358	ASPHALT CURING SEAL (4)	TON	85.5												85.5
20	TRAFFIC-BOUND BASE	TON													838
2084	JPC PAVEMENT - 8 INCH	SQ. YD.	43931												43931
2084	RCC PAVEMENT - 6 INCH	SQ. YD.	41195												41195
2230	EMBANKMENT-IN-PLACE	CU. YD.													1,298,931

ALL ASPHALT MIXTURES ARE ESTIMATED AT 100 LBS. PER SQ. YD. PER INCH OF DEPTH UNLESS NOTED OTHERWISE.

**NOTES**

- ① QUANTITY IN CUBIC YARDS
- ② ESTIMATED AT 100 LBS. PER SQ. YD. PER INCH OF DEPTH.
- ③ ESTIMATED AT 15 LBS. PER SQ. YD. PER INCH OF DEPTH.
- ④ ESTIMATED AT (FOR CEMENT STABILIZED ROADBED) 20 LB/SQ. YD (11 KG/SQ. M.)
- ⑤ ESTIMATED AT 2.7 TO 3 LB/SQ. YD (1.1 TO 1.6 KG/SQ. M.)
- ⑥ ESTIMATED AT 100 LBS. PER SQ. YD. PER INCH OF DEPTH FOR ENTRANCE ACCESS DURING CONSTRUCTION

PAVEMENT SUMMARY  
CONCRETE WITH CONCRETE SHOULDER

### PAVING AREAS - CONCRETE WITH RCC SHOULDER

ITEM	MAINLINE	ACCESS RD. #1	ACCESS RD. #2	ACCESS RD. #3	CONNECTOR #1	CONNECTOR #2	CONNECTOR #3	CONNECTOR #4	KY 77 #1	KY 77 #2	KY 1242	ENTRANCES	TOTAL PROJECT
													S
1.25 in CL2 ASPH. SURF. 0.38D PG64-22		1571	459		1275	1581	1400	1329	2540	4029	9326	2472	69913
1.00 in CL2 ASPH. SURF. 0.38D PG64-22	3082 (W)												3082
8.00 in JPC	43931												43931
6.00 in RCC	41195												41195
3.00 in CL2 ASPH. BASE 1.00D PG64-22	3150 (W)												3150
3.50 in CL2 ASPH. BASE 1.00D PG64-22		1588			1285	1593	1411	1339	2557	4056	9389		23218
2.00 in CL2 ASPH. BASE 0.75D PG64-22			469									2516	2985
PCC ENT PAVEMENT												68	68
12.75 in CRUSHED STONE BASE							277	178	128		817		1400
12.00 in CRUSHED STONE BASE	11316												11316
6.00 in CRUSHED STONE BASE	34385												34385
8.00 in CRUSHED STONE BASE	3250 (W)	1634			1312	1626	1440	1368	2606	4131	9565		26932
4.00 in CRUSHED STONE BASE	43930		470	1157								9799	55356
FULL DEPTH CRUSHED STONE BASE (1)	5264				68	84	75	72	123	196	454		6336
ASPHALT SEAL AGGREGATE	25094				369	456	683	568	1307	1038	3226		32741
EMULSIFIED ASPHALT RS-2	25094				369	456	683	568	1307	1038	3226		32741
TRAFFIC-BOUND BASE (6)													8376

(W) TEMPORARY WIDENING QUANTITIES, REFER TO TYPICAL SECTIONS FOR DETAILS.

### PAVING SUMMARY - CONCRETE WITH RCC SHOULDER

ITEM CODE	ITEM	UNIT	MAINLINE	ACCESS RD. #1	ACCESS RD. #2	ACCESS RD. #3	CONNECTOR #1	CONNECTOR #2	CONNECTOR #3	CONNECTOR #4	KY 77 #1	KY 77 #2	KY 1242	ENTRANCES	TOTAL PROJECT
301	CL2 ASPH SURF 0.38D PG64-22 (2)	TON	170	108	32		88	109	97	92	175	277	641	170	1959
212	CL2 ASPH BASE 1.00D PG64-22 (2)	TON	520	306			247	307	272	258	492	781	1807		4990
221	CL2 ASPH BASE 0.75D PG64-22 (2)	TON			52									290	342
100	ASPHALT SEAL AGGREGATE	TON	502				8	9	14	12	26	21	65		657
291	EMULSIFIED ASPHALT RS-2	TON	60.3				1.0	1.1	1.7	1.5	3.1	2.5	7.8		79
3	CRUSHED STONE BASE (3)	TON	43474	752	109	266	744	922	1021	909	1547	2306	5939	2254	60243
2099	PCC ENT PAVEMENT - 6 INCH	SY												68	68
2091	REMOVING PAVEMENT	SY	1670									252	2981		4903
2585	EDGE KEY	LF	125	12	12		21	20	20	20	20	19	18		287
8	CEMENT STABILIZED ROADBED	SY	85461												85461
02542	CEMENT	TON	1539												1539
2702	SAND FOR BLOTTER (5)	TON	214												214
358	ASPHALT CURING SEAL (4)	TON	85.5												85.5
20	TRAFFIC-BOUND BASE	TON													838
2084	JPC PAVEMENT - 8 INCH	SQ. YD.	43931												43931
2084	RCC PAVEMENT - 6 INCH	SQ. YD.	41195												41195
2230	EMBANKMENT-IN-PLACE	CU. YD.													1,298,931

**NOTES**

ALL ASPHALT MIXTURES ARE ESTIMATED AT 100 LBS. PER SQ. YD. PER INCH OF DEPTH UNLESS NOTED OTHERWISE.

① QUANTITY IN CUBIC YARDS

② ESTIMATED AT 100 LBS. PER SQ. YD. PER INCH OF DEPTH.

③ ESTIMATED AT 15 LBS. PER SQ. YD. PER INCH OF DEPTH.

④ ESTIMATED AT (FOR CEMENT STABILIZED ROADBED) 20 LB/SQ. YD. (11 KG/SQ. M.)

⑤ ESTIMATED AT 2.7 TO 3 LB/SQ. YD. (1.1 TO 1.6 KG/SQ. M.)

⑥ ESTIMATED AT 100 LBS. PER SQ. YD. PER INCH OF DEPTH FOR ENTRANCE ACCESS DURING CONSTRUCTION

REVISSED 06-11-2012

PAVEMENT SUMMARY  
CONCRETE WITH CONCRETE SHOULDER



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 COUNTY: MENIFEE  
 PROPOSAL: JL04 083 0460 010-014

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LINE NO	ITEM	DESCRIPTION	APPROXIMATE QUANTITY	UNIT	UNIT PRICE	AMOUNT
ALT GROUPIAA10001 PAVING-ASPHALT						
0010	00003	CRUSHED STONE BASE	63,703.000	TON		
0020	00008	CEMENT STABILIZED ROADBED (REVISED: 6-12-12)	85,461.000	SQYD		
0030	02542	CEMENT (REVISED: 6-12-12)	1,539.000	TON		
0040	00020	TRAFFIC BOUND BASE	838.000	TON		
0050	00069	CRUSHED AGGREGATE SIZE NO 3	500.000	TON		
0060	00078	CRUSHED AGGREGATE SIZE NO 2	319.000	TON		
0070	00100	ASPHALT SEAL AGGREGATE	657.000	TON		
0080	00212	CL2 ASPH BASE 1.00D PG64-22	34,361.000	TON		
0090	00221	CL2 ASPH BASE 0.75D PG64-22	342.000	TON		
0100	00291	EMULSIFIED ASPHALT RS-2	79.000	TON		
0110	00301	CL2 ASPH SURF 0.38D PG64-22	7,811.000	TON		
0120	00358	ASPHALT CURING SEAL	85.500	TON		
0130	02091	REMOVE PAVEMENT	4,903.000	SQYD		
0140	02099	CEM CONC ENT PAVEMENT-6 IN	68.000	SQYD		
0150	02230	EMBANKMENT IN PLACE	1,298,931.000	CUYD		
0160	02585	EDGE KEY	287.000	LF		
0170	02696	SHOULDER RUMBLE STRIPS-SAWED	30,500.000	LF		
0180	02702	SAND FOR BLOTTER	214.000	TON		
0190	10203ND	PAVEMENT ADJUSTMENT ASPHALT	( 1.00)	LS	386,405.00	386,405.00
0200	20458ES403	CENTERLINE RUMBLE STRIPS	15,250.000	LF		
ALT GROUPIAA20002 PAVING-CONC. WITH ASPH SHOULDER						

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LINE NO	ITEM	DESCRIPTION	APPROXIMATE UNIT QUANTITY	UNIT PRICE	AMOUNT
0210	00003	CRUSHED STONE BASE	61,726.000 TON		
0220	00008	CEMENT STABILIZED ROADBED (REVISED: 6-12-12)	85,461.000 SQYD		
0230	02542	CEMENT (REVISED: 6-12-12)	1,539.000 TON		
0240	00020	TRAFFIC BOUND BASE	838.000 TON		
0250	00069	CRUSHED AGGREGATE SIZE NO 3	500.000 TON		
0260	00078	CRUSHED AGGREGATE SIZE NO 2	319.000 TON		
0270	00100	ASPHALT SEAL AGGREGATE	657.000 TON		
0280	00212	CL2 ASPH BASE 1.00D PG64-22	14,053.000 TON		
0290	00221	CL2 ASPH BASE 0.75D PG64-22	342.000 TON		
0300	00291	EMULSIFIED ASPHALT RS-2	79.000 TON		
0310	00301	CL2 ASPH SURF 0.38D PG64-22	4,791.000 TON		
0320	00358	ASPHALT CURING SEAL	85.500 TON		
0330	02084	JPC PAVEMENT-8 IN	43,931.000 SQYD		
0340	02091	REMOVE PAVEMENT	4,903.000 SQYD		
0350	02099	CEM CONC ENT PAVEMENT-6 IN	68.000 SQYD		
0360	02230	EMBANKMENT IN PLACE	1,298,931.000 CUYD		
0370	02585	EDGE KEY	287.000 LF		
0380	02696	SHOULDER RUMBLE STRIPS-SAWED	30,500.000 LF		
0390	02702	SAND FOR BLOTTER	214.000 TON		
0400	10203ND	PAVEMENT ADJUSTMENT CONC WITH ASPH SHLD	( 1.00) LS	169,920.00	169,920.00
0410	20458ES403	CENTERLINE RUMBLE STRIPS	15,250.000 LF		
ALT GROUPIAA30003		PAVING-CONC. WITH CONC. SHOULDER			

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LINE NO	ITEM	DESCRIPTION	APPROXIMATE QUANTITY	UNIT	UNIT PRICE	AMOUNT
0420	00003	CRUSHED STONE BASE	60,243.000	TON		
0430	00008	CEMENT STABILIZED ROADBED (REVISED: 6-12-12)	85,461.000	SQYD		
0440	02542	CEMENT (REVISED: 6-12-12)	1,539.000	TON		
0450	00020	TRAFFIC BOUND BASE	838.000	TON		
0460	00069	CRUSHED AGGREGATE SIZE NO 3	500.000	TON		
0470	00078	CRUSHED AGGREGATE SIZE NO 2	319.000	TON		
0480	00100	ASPHALT SEAL AGGREGATE	657.000	TON		
0490	00212	CL2 ASPH BASE 1.00D PG64-22	4,990.000	TON		
0500	00221	CL2 ASPH BASE 0.75D PG64-22	342.000	TON		
0510	00291	EMULSIFIED ASPHALT RS-2	79.000	TON		
0520	00301	CL2 ASPH SURF 0.38D PG64-22	1,959.000	TON		
0530	00358	ASPHALT CURING SEAL	85.500	TON		
0540	02084	JPC PAVEMENT-8 IN	43,931.000	SQYD		
0550	02091	REMOVE PAVEMENT	4,903.000	SQYD		
0560	02099	CEM CONC ENT PAVEMENT-6 IN	68.000	SQYD		
0570	02230	EMBANKMENT IN PLACE	1,298,931.000	CUYD		
0580	02585	EDGE KEY	287.000	LF		
0590	02696	SHOULDER RUMBLE STRIPS-SAWED	30,500.000	LF		
0600	02702	SAND FOR BLOTTER	214.000	TON		
0610	10203ND	PAVEMENT ADJUSTMENT CONC WITH CONC SHLD	( 1.00)	LS	169,920.00	169,920.00
0620	20458ES403	CENTERLINE RUMBLE STRIPS	15,250.000	LF		



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LINE NO	ITEM	DESCRIPTION	APPROXIMATE QUANTITY	UNIT	UNIT PRICE	AMOUNT
0630	23950EC	RCC SHOULDER-6 IN	41,195.000	SQYD		
SECTION 0004 ROADWAY						
0640	00440	ENTRANCE PIPE-15 IN	84.000	LF		
0650	00441	ENTRANCE PIPE-18 IN	1,110.000	LF		
0660	00443	ENTRANCE PIPE-24 IN	202.000	LF		
0670	00464	CULVERT PIPE-24 IN	1,106.000	LF		
0680	00468	CULVERT PIPE-36 IN	2,372.000	LF		
0690	00470	CULVERT PIPE-48 IN	58.000	LF		
0700	00472	CULVERT PIPE-60 IN	104.000	LF		
0710	01000	PERFORATED PIPE-4 IN	5,800.000	LF		
0720	01010	NON-PERFORATED PIPE-4 IN	2,100.000	LF		
0730	01020	PERF PIPE HEADWALL TY 1-4 IN	1.000	EACH		
0740	01024	PERF PIPE HEADWALL TY 2-4 IN	5.000	EACH		
0750	01028	PERF PIPE HEADWALL TY 3-4 IN	6.000	EACH		
0760	01032	PERF PIPE HEADWALL TY 4-4 IN	7.000	EACH		
0770	01390	METAL END SECTION TY 3-15 IN	4.000	EACH		
0780	01391	METAL END SECTION TY 3-18 IN	46.000	EACH		
0790	01393	METAL END SECTION TY 3-24 IN	4.000	EACH		
0800	01395	METAL END SECTION TY 3-36 IN	2.000	EACH		
0810	01397	METAL END SECTION TY 3-48 IN	2.000	EACH		
0820	01451	S & F BOX INLET-OUTLET-24 IN	5.000	EACH		

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LINE NO	ITEM	DESCRIPTION	APPROXIMATE QUANTITY	UNIT	UNIT PRICE	AMOUNT
0830	01453	S & F BOX INLET-OUTLET-36 IN	9.000	EACH		
0840	01691	FLUME INLET TYPE 2	1.000	EACH		
0850	01825	ISLAND CURB AND GUTTER	45.000	LF		
0860	01891	ISLAND HEADER CURB TYPE 2	25.000	LF		
0870	01982	DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	157.000	EACH		
0880	02014	BARRICADE-TYPE III	6.000	EACH		
0890	02159	TEMP DITCH	15,260.000	LF		
0900	02223	GRANULAR EMBANKMENT	14,000.000	CUYD		
0910	02235	BACKFILLING UNDERCUT	2,000.000	CUYD		
0920	02242	WATER	4,500.000	MGAL		
0930	02273	FENCE-4 FT CHAIN LINK	106.000	LF		
0940	02360	GUARDRAIL TERMINAL SECTION NO 1	21.000	EACH		
0950	02363	GUARDRAIL CONNECTOR TO BRIDGE END TY A	4.000	EACH		
0960	02367	GUARDRAIL END TREATMENT TYPE 1	34.000	EACH		
0970	02381	REMOVE GUARDRAIL	1,350.000	LF		
0980	02397	TEMP GUARDRAIL	1,675.000	LF		
0990	02429	RIGHT-OF-WAY MONUMENT TYPE 1	272.000	EACH		
1000	02430	RIGHT-OF-WAY MONUMENT TYPE 1A	2.000	EACH		
1010	02432	WITNESS POST	3.000	EACH		
1020	02483	CHANNEL LINING CLASS II	4,831.000	TON		
1030	02484	CHANNEL LINING CLASS III	3,207.000	TON		

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LINE NO	ITEM	DESCRIPTION	APPROXIMATE QUANTITY	UNIT	UNIT PRICE	AMOUNT
1040	02545	CLEARING AND GRUBBING 140 ACRES	( 1.00)	LS		
1050	02562	SIGNS	2,920.000	SQFT		
1060	02598	FABRIC-GEOTEXTILE TYPE III	13,900.000	SQYD		
1070	02599	FABRIC-GEOTEXTILE TYPE IV	17,300.000	SQYD		
1080	02600	FABRIC GEOTEXTILE TY IV FOR PIPE	14,911.000	SQYD		
1090	02650	MAINTAIN & CONTROL TRAFFIC	( 1.00)	LS		
1100	02653	LANE CLOSURE	1.000	EACH		
1110	02671	PORTABLE CHANGEABLE MESSAGE SIGN	2.000	EACH		
1120	02676	MOBILIZATION FOR MILL & TEXT	( 1.00)	LS		
1130	02677	ASPHALT PAVE MILLING & TEXTURING	123.000	TON		
1140	02701	TEMP SILT FENCE	15,260.000	LF		
1150	02703	SILT TRAP TYPE A	140.000	EACH		
1160	02704	SILT TRAP TYPE B	140.000	EACH		
1170	02705	SILT TRAP TYPE C	140.000	EACH		
1180	02706	CLEAN SILT TRAP TYPE A	420.000	EACH		
1190	02707	CLEAN SILT TRAP TYPE B	420.000	EACH		
1200	02708	CLEAN SILT TRAP TYPE C	420.000	EACH		
1210	02709	CLEAN TEMP SILT FENCE	15,260.000	LF		
1220	02726	STAKING	( 1.00)	LS		
1230	05950	EROSION CONTROL BLANKET	33,529.000	SQYD		
1240	05952	TEMP MULCH	346,850.000	SQYD		

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LINE NO	ITEM	DESCRIPTION	APPROXIMATE QUANTITY	UNIT	UNIT PRICE	AMOUNT
1250	05953	TEMP SEEDING AND PROTECTION	346,850.000	SQYD		
1260	05966	TOPDRESSING FERTILIZER	18.000	TON		
1270	05985	SEEDING AND PROTECTION	346,850.000	SQYD		
1280	06510	PAVE STRIPING-TEMP PAINT-4 IN	43,000.000	LF		
1290	06514	PAVE STRIPING-PERM PAINT-4 IN	85,000.000	LF		
1300	06568	PAVE MARKING-THERMO STOP BAR-24IN	264.000	LF		
1310	06578	PAVE MARKING-THERMO MERGE ARROW	3.000	EACH		
1320	08100	CONCRETE-CLASS A	58.000	CUYD		
1330	08150	STEEL REINFORCEMENT	3,816.000	LB		
1340	10030NS	ASPHALT ADJUSTMENT	102,422.000	DOLL	1.00	102,422.00
1350	20000ES724	TREE EASTERN HEMLOCK	15.000	EACH		
1360	20209EP69	GRANULAR PILE CORE	1,721.000	CUYD		
1370	21057ND	LIVE STAKES	2,253.000	EACH		
1380	21257ED	ENTRANCE PIPE-48 IN	75.000	LF		
1390	21802EN	G/R STEEL W BEAM-S FACE (7 FT POST)	15,662.500	LF		
1400	22581EN	ENTRANCE PIPE-36 IN	154.000	LF		
1410	23131ER701	PIPELINE VIDEO INSPECTION	1,820.000	LF		
1420	23274EN11F	TURF REINFORCEMENT MAT 1	6,698.000	SQYD		
1430	23542EC	ENHANCED SILT TRAP	4.000	EACH		
1440	23545EC	CLEAN ENHANCED SILT TRAP	12.000	EACH		

SECTION 0005 BRIDGE-CULVERT



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LINE NO	ITEM	DESCRIPTION	APPROXIMATE QUANTITY	UNIT	UNIT PRICE	AMOUNT
1450	02231	STRUCTURE GRANULAR BACKFILL	574.000	CUYD		
1460	02555	CONCRETE-CLASS B	23.400	CUYD		
1470	02998	MASONRY COATING	905.000	SQYD		
1480	03299	ARMORED EDGE FOR CONCRETE	117.300	LF		
1490	08001	STRUCTURE EXCAVATION-COMMON	318.000	CUYD		
1500	08002	STRUCTURE EXCAV-SOLID ROCK	157.000	CUYD		
1510	08003	FOUNDATION PREPARATION 26586	( 1.00)	LS		
1520	08003	FOUNDATION PREPARATION 26791	( 1.00)	LS		
1530	08019	CYCLOPEAN STONE RIP RAP	500.000	TON		
1540	08033	TEST PILES	77.000	LF		
1550	08046	PILES-STEEL HP12X53	658.000	LF		
1560	08094	PILE POINTS-12 IN	22.000	EACH		
1570	08100	CONCRETE-CLASS A	1,096.700	CUYD		
1580	08104	CONCRETE-CLASS AA	536.300	CUYD		
1590	08150	STEEL REINFORCEMENT	169,588.000	LB		
1600	08151	STEEL REINFORCEMENT-EPOXY COATED	131,839.000	LB		
1610	08634	PRECAST PC I BEAM TYPE 4	2,095.300	LF		
1620	21532ED	RAIL SYSTEM TYPE III	607.400	LF		
SECTION 0006 WATERLIN						
1630	00068	AGGREGATE FOR ENTRANCES	100.000	TON		
1640	01063	STEEL ENCASEMENT PIPE-6 IN OPEN CUT	90.000	LF		

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LINE NO	ITEM	DESCRIPTION	APPROXIMATE QUANTITY	UNIT	UNIT PRICE	AMOUNT
1650	01063	STEEL ENCASEMENT PIPE-6 IN ROAD BORE	386.000	LF		
1660	01069	STEEL ENCASEMENT PIPE-12 IN OPEN CUT	285.000	LF		
1670	01071	STEEL ENCASEMENT PIPE-14 IN OPEN CUT	226.000	LF		
1680	01071	STEEL ENCASEMENT PIPE-14 IN ROAD BORE	125.000	LF		
1690	01076	STEEL ENCASEMENT PIPE-20 IN	140.000	LF		
1700	01095	DUCTILE IRON PIPE-8 IN	1,396.000	LF		
1710	01101	DUCTILE IRON PIPE-14 IN	1,243.000	LF		
1720	03381	PVC PIPE-2 IN	808.000	LF		
1730	03382	PVC PIPE-3 IN	728.000	LF		
1740	03385	PVC PIPE-6 IN	3,480.000	LF		
1750	03387	PVC PIPE-8 IN	3,850.000	LF		
1760	03392	PVC PIPE-14 IN	618.000	LF		
1770	03430	INSTALL WATER METER	10.000	EACH		
1780	03439	FLUSH HYDRANT 6 IN	2.000	EACH		
1790	03463	TIE-IN 2 IN	5.000	EACH		
1800	03466	TIE-IN 6 IN	6.000	EACH		
1810	03468	TIE-IN 8 IN	8.000	EACH		
1820	03495	AIR RELEASE VALVE	1.000	EACH		
1830	03522	GATE VALVE-2 IN	5.000	EACH		
1840	03523	GATE VALVE-3 IN	3.000	EACH		
1850	03526	GATE VALVE-6 IN	5.000	EACH		

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LINE NO	ITEM	DESCRIPTION	APPROXIMATE QUANTITY	UNIT	UNIT PRICE	AMOUNT
1860	03528	GATE VALVE-8 IN	8.000	EACH		
1870	03529	GATE VALVE-14 IN	6.000	EACH		
1880	21233ED	ASPHALT PAVING REPLACEMENT	150.000	LF		
1890	22440NN	TIE-IN-3 IN	2.000	EACH		
1900	24052EC	CONNECT TO 14 IN	6.000	EACH		
SECTION 0007 DEMOB AND MOB						
1910	02568	MOBILIZATION (NO MORE THAN 5%)		LUMP		
1920	02569	DEMOBILIZATION (AT LEAST 1.5%)		LUMP		
		TOTAL BID				