



TRANSPORTATION CABINET

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

Steven L. Beshear
Governor

Michael W. Hancock, P.E.
Secretary

October 17, 2012

CALL NO. 309
CONTRACT ID NO. 121043
ADDENDUM # 2

Subject: Kenton County, FD04 SPP 059 0016-NEWLOC
Letting October 19, 2012

- (1) Revised - Plan Sheets - R2, R2A, R2C, R2G, R2L, R2R, R2S, R2T, U47, & U71
- (2) Revised - Table of Contents - Page 2 of 272
- (3) Added - Special Note - Pages 237(a)-237(c) of 272
- (4) Revised - Bid Items - Pages 262-268 of 272

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".

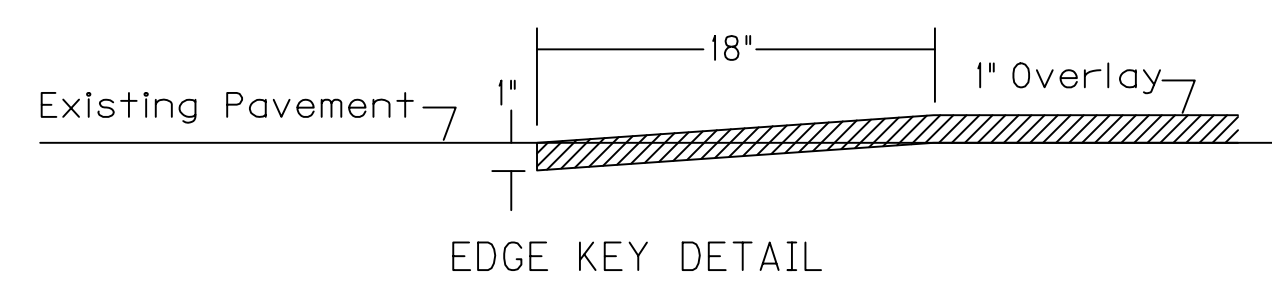
Ryan Griffith
Director
Division of Construction Procurement

RG:ks
Enclosures

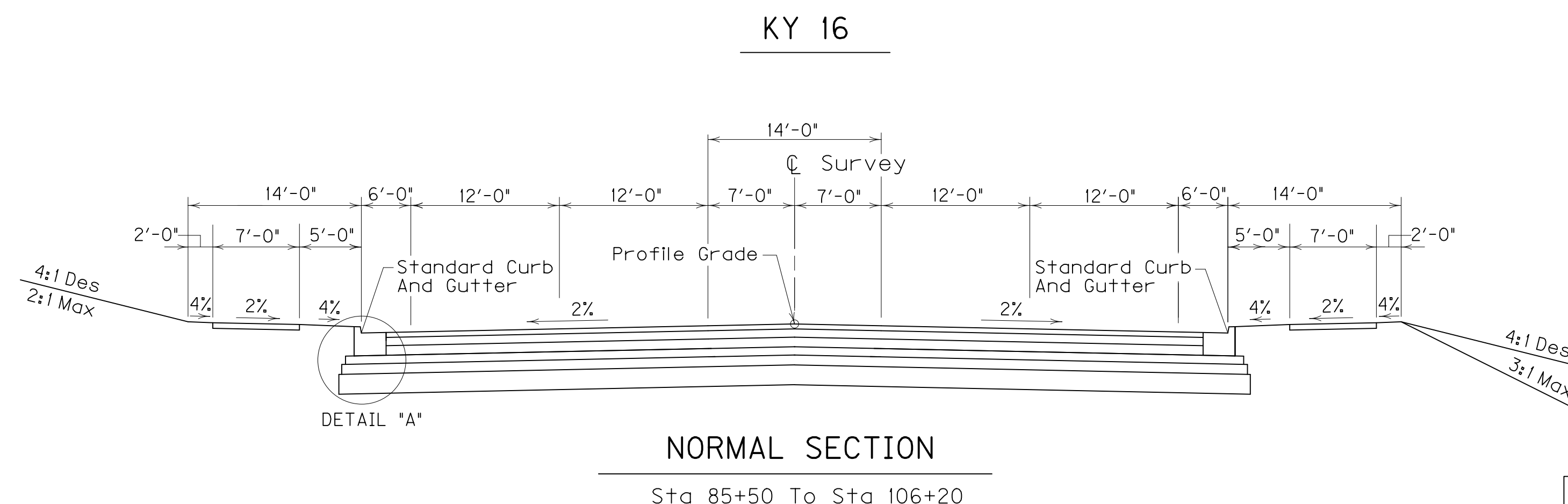


An Equal Opportunity Employer M/F/D

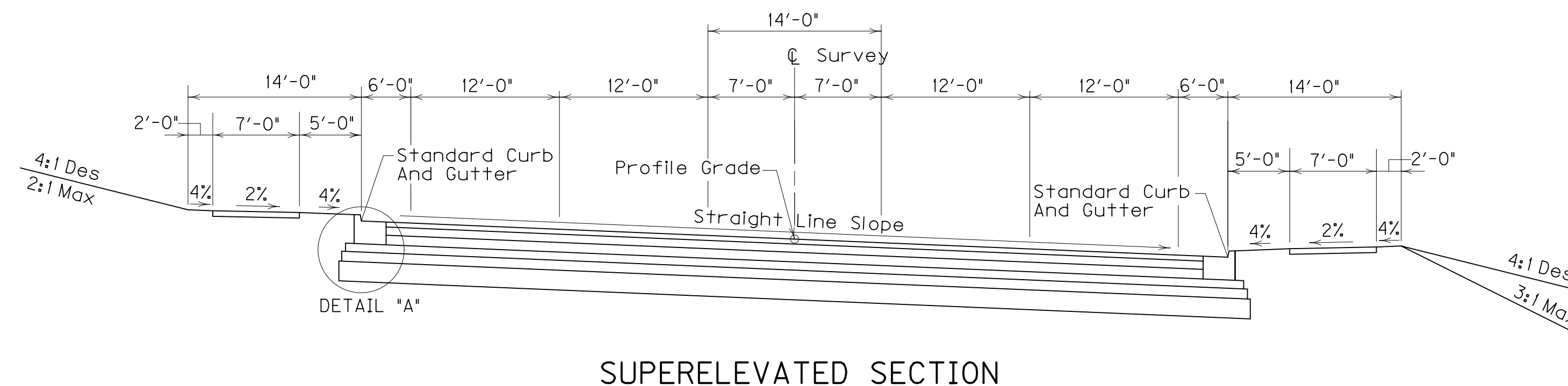
TYPICAL SECTIONS



Work under this item shall include cutting out the existing bituminous surface to a minimum depth and width as shown, so the new surface may heel into the existing surface. The contract unit price bid per linear foot for "EDGE KEY" shall include all necessary materials, labor, equipment, etc. to perform the work and dispose of the bituminous material removed.

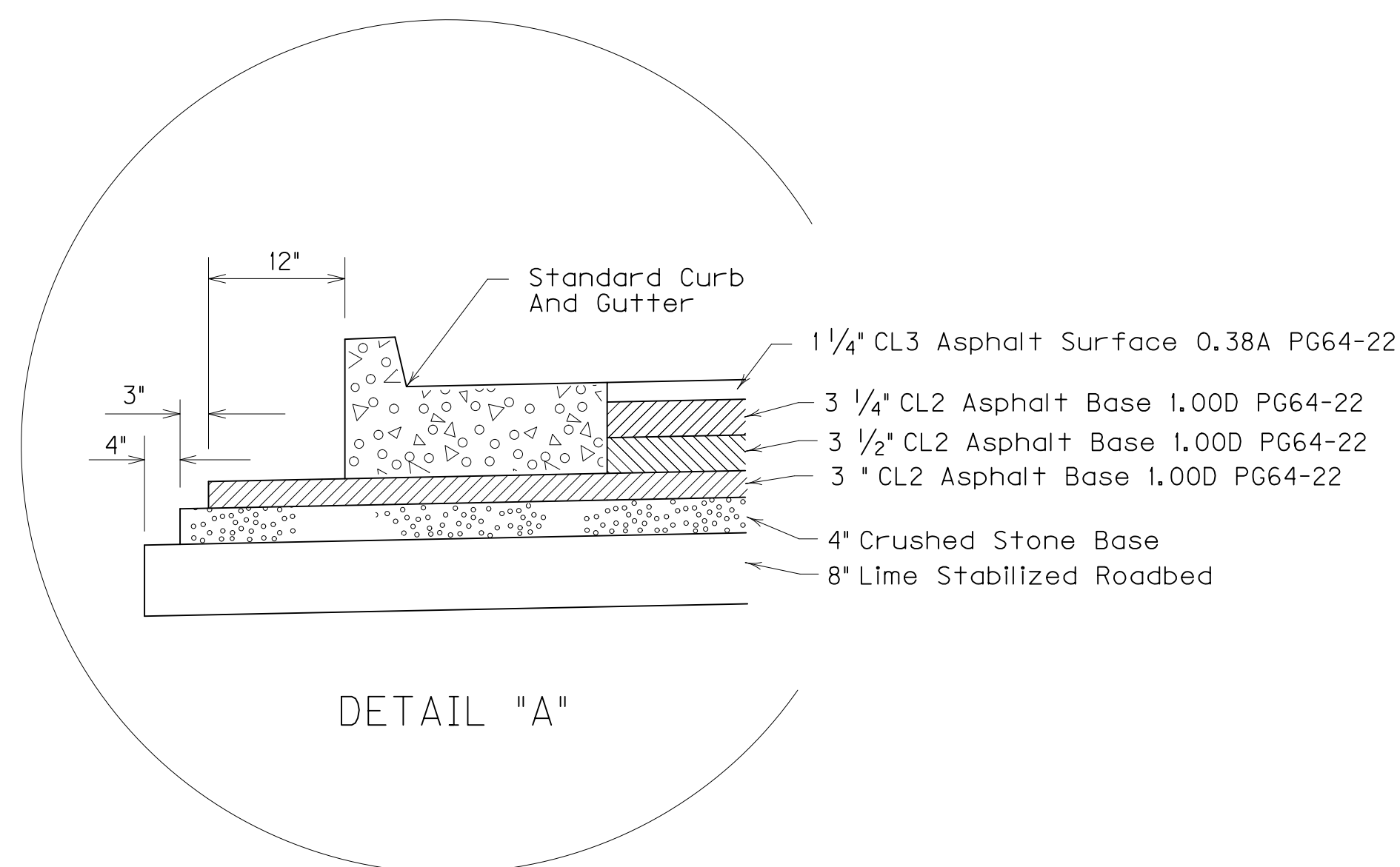


SEE X - SECTIONS FOR SLOPES OUTSIDE SHOULDERS LIMITS



PREPARED BY _____ DATE _____
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 APPROVED BY _____ DATE _____

Cell Library: kyt.cel
 Cell Name: sp
 DD-MMM-YYYY HH:MM



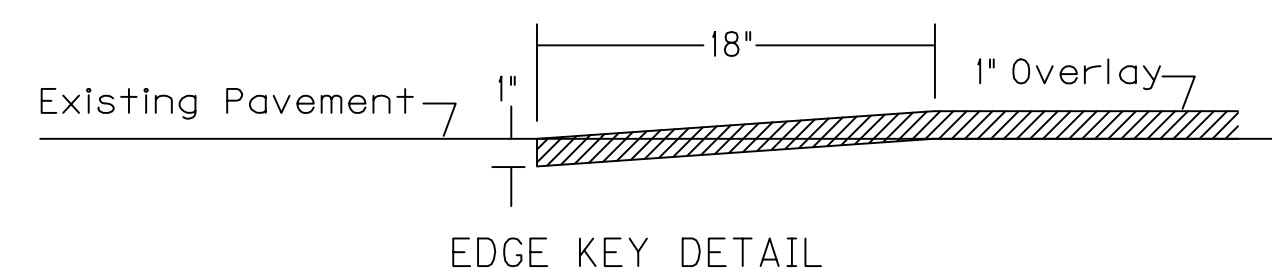
NEW CONSTRUCTION
 GRADE, DRAIN & FLEXIBLE PAVEMENT
 USING

- APPROXIMATELY 21 3/4" BASE [8" COMPACTED DEPTH LIME STABILIZED ROADBED AND 4" COMPACTED DEPTH CRUSHED STONE BASE AND 9 3/4" COMPACTED DEPTH CL2 ASPHALT BASE 1.00D PG64-22 (3" + 3 1/2" + 3 1/4" COURSES)]
- APPROXIMATELY 1 1/4" SURFACE [1 1/4" COMPACTED DEPTH CL3 ASPHALT SURFACE 0.38A PG64-22]

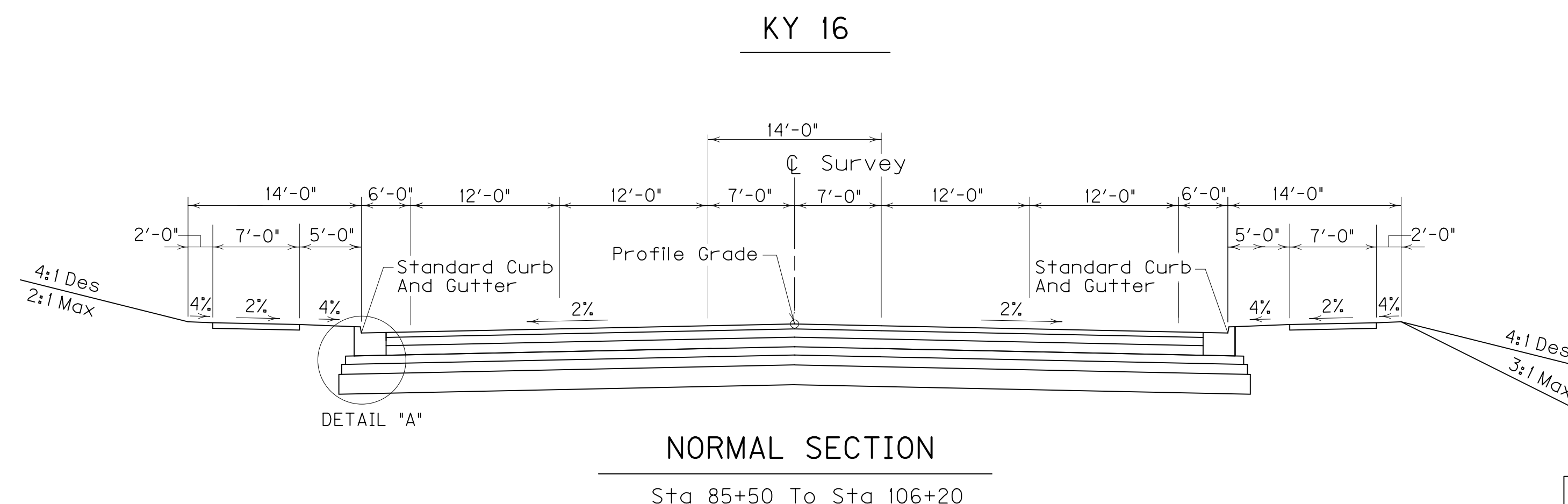
LIME STABILIZED ROADBED

STABILIZE THE TOP EIGHT (8) INCHES OF THE FINISHED ROADBED WITH LIME IN ACCORDANCE WITH SECTION 208 OF THE STANDARD SPECIFICATIONS. USE SELECTED SOILS, HAVING A MINIMUM C.B.R. VALUE OF 2 FOR THIS PURPOSE. THE LIME CONTENT IS 6 PERCENT BY WEIGHT, AND THE ESTIMATED PLAN QUANTITY USED AN AVERAGE DRY DENSITY OF 101 LBS/CUBIC FEET. HOWEVER, ADJUST THE QUANTITY AFTER CONSTRUCTING THE ROADBED AND SUBMITTING THE SAMPLES FOR TESTING. THIS TAKES APPROXIMATELY TWO WEEKS.

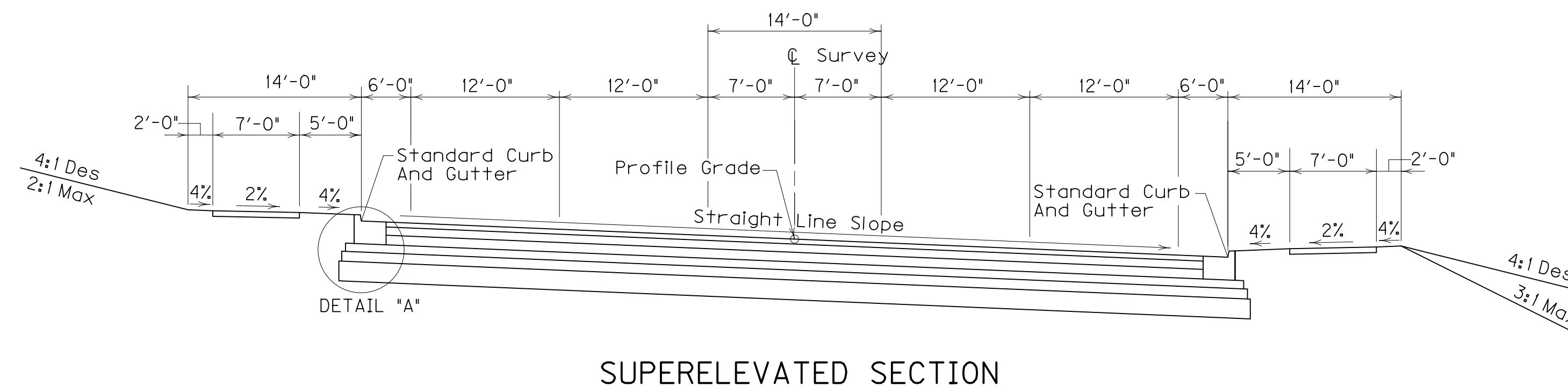
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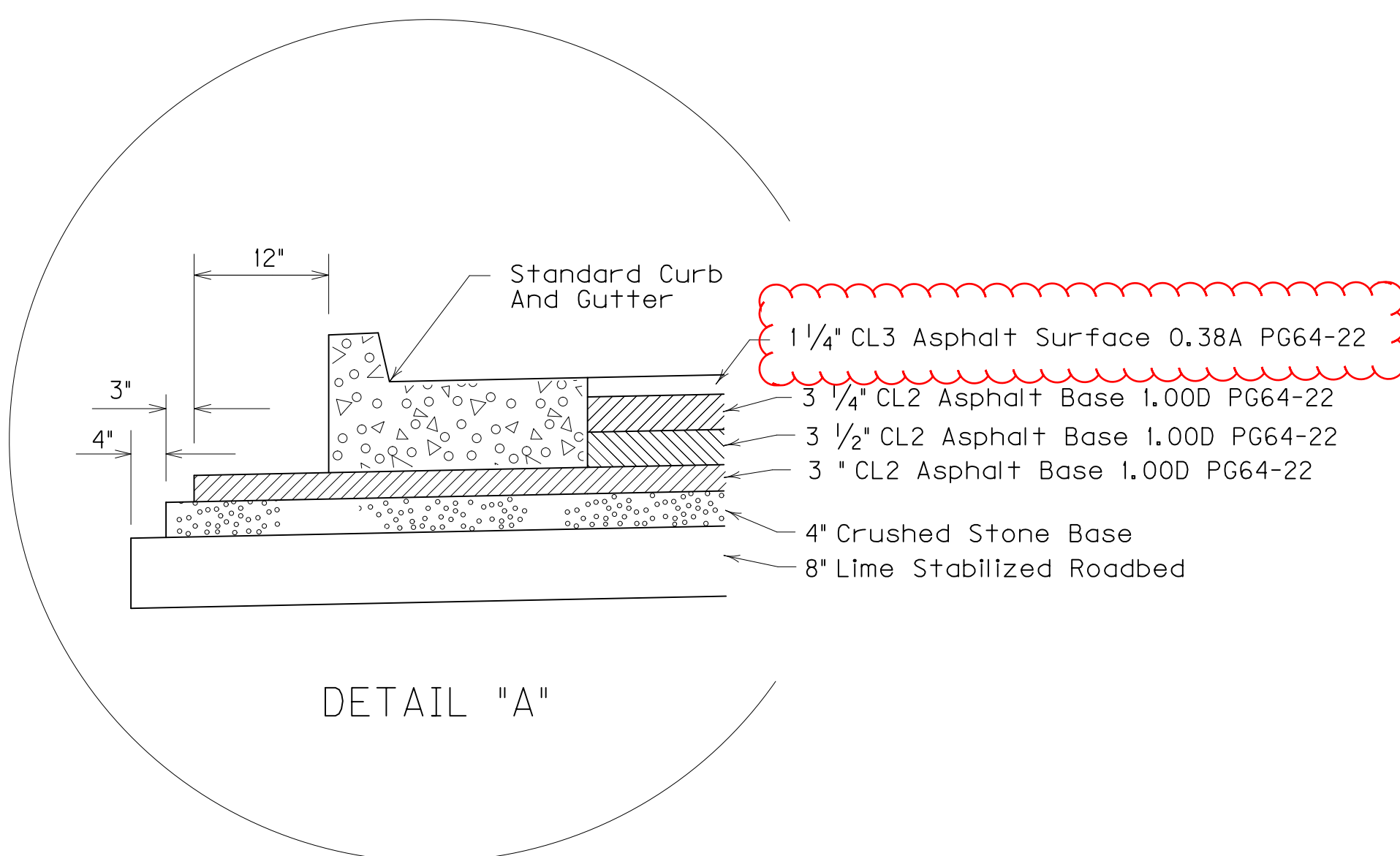


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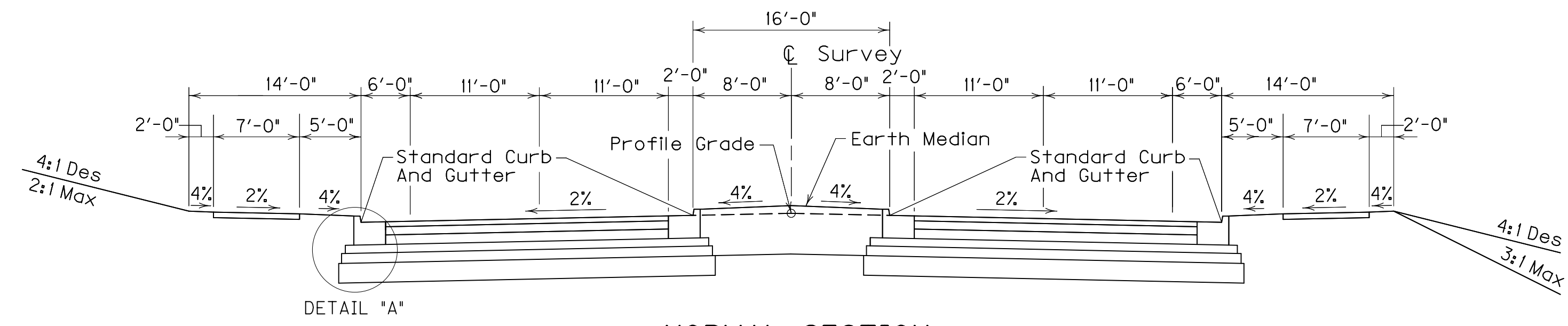
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TYPICAL SECTIONS

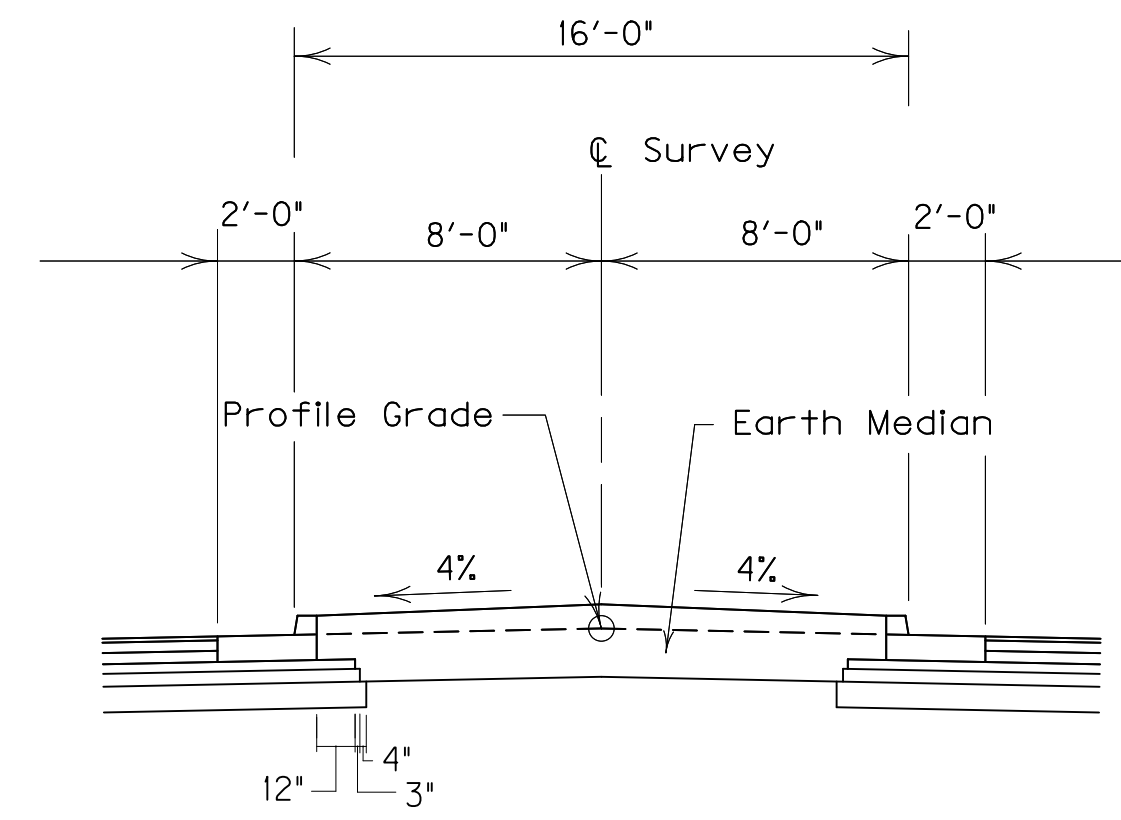
KY 16



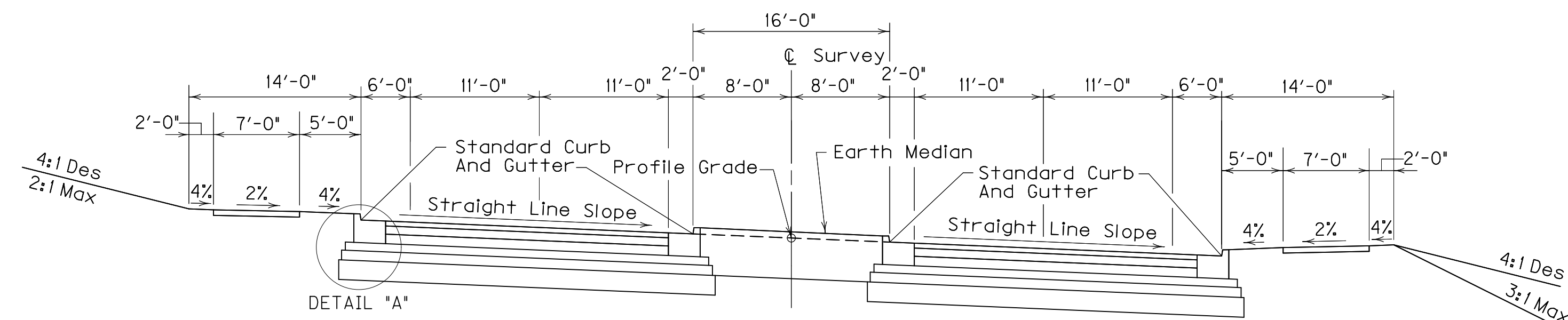
NORMAL SECTION

Sta 108+00 To Sta 182+25

SEE X - SECTIONS FOR SLOPES
OUTSIDE SHOULDERS LIMITS



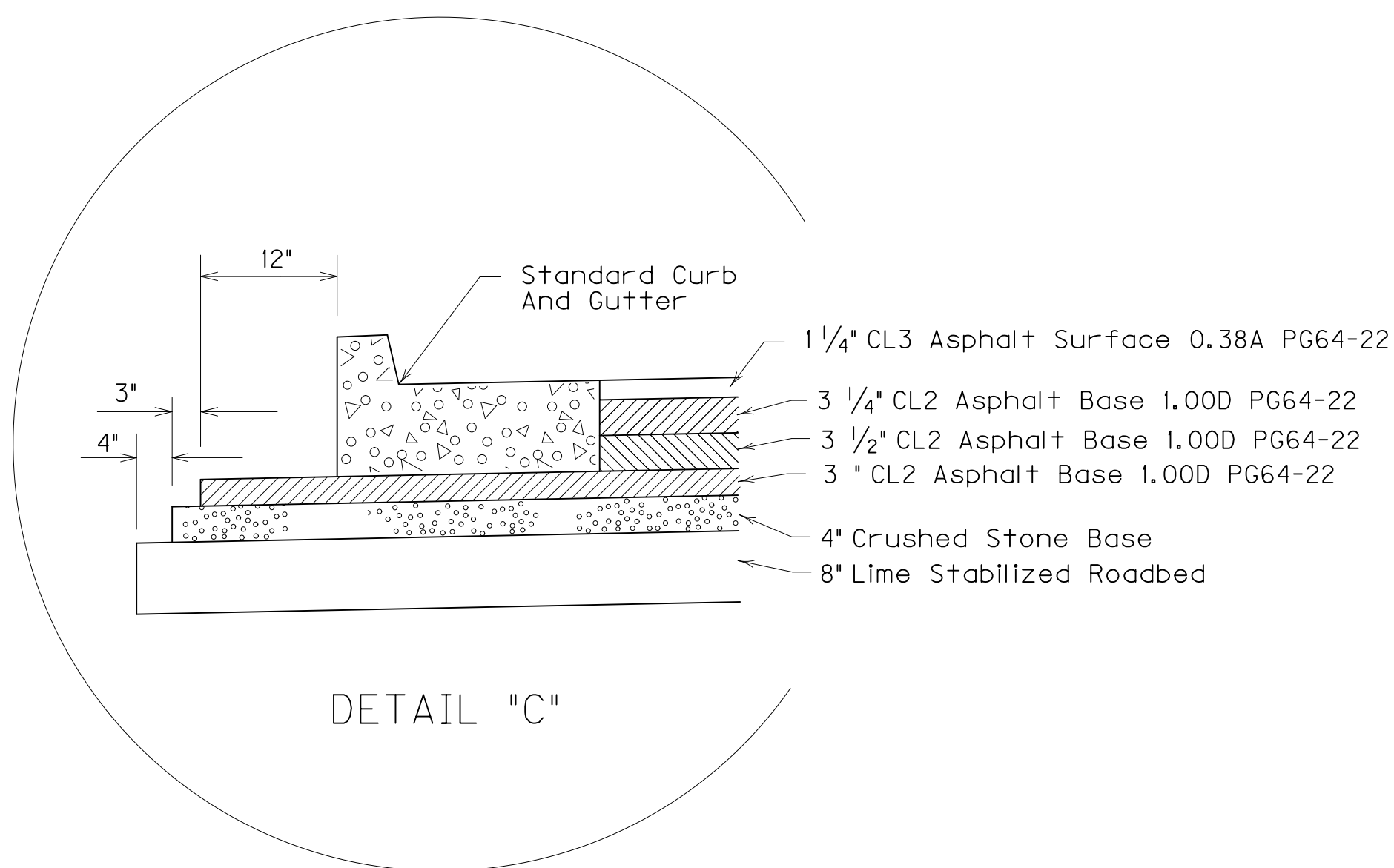
MEDIAN DETAIL



SUPERELEVATED SECTION

PREPARED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____

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 Cell Name: sp
 DD-MMM-YYYY HH:MM



DETAIL "C"

NEW CONSTRUCTION
 GRADE, DRAIN & FLEXIBLE PAVEMENT
 USING

APPROXIMATELY 21 3/4" BASE 8" COMPACTED DEPTH LIME STABILIZED ROADBED AND
 4" COMPACTED DEPTH CRUSHED STONE BASE AND
 9 3/4" COMPACTED DEPTH CL2 ASPHALT BASE 1.00D PG64-22 (3" + 3 1/2" + 3 1/4" COURSES)

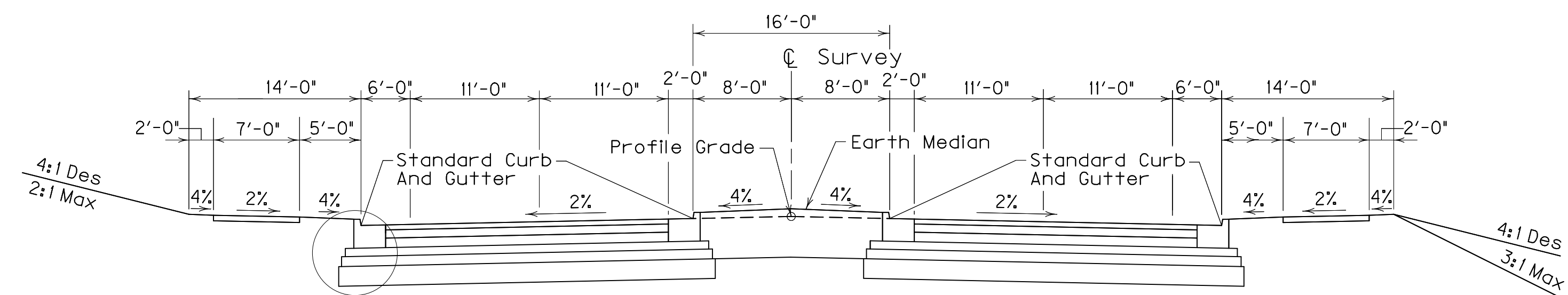
APPROXIMATELY 1 1/4" SURFACE 1 1/4" COMPACTED DEPTH CL3 ASPHALT SURFACE 0.38A PG64-22

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TYPICAL SECTIONS

KY 16

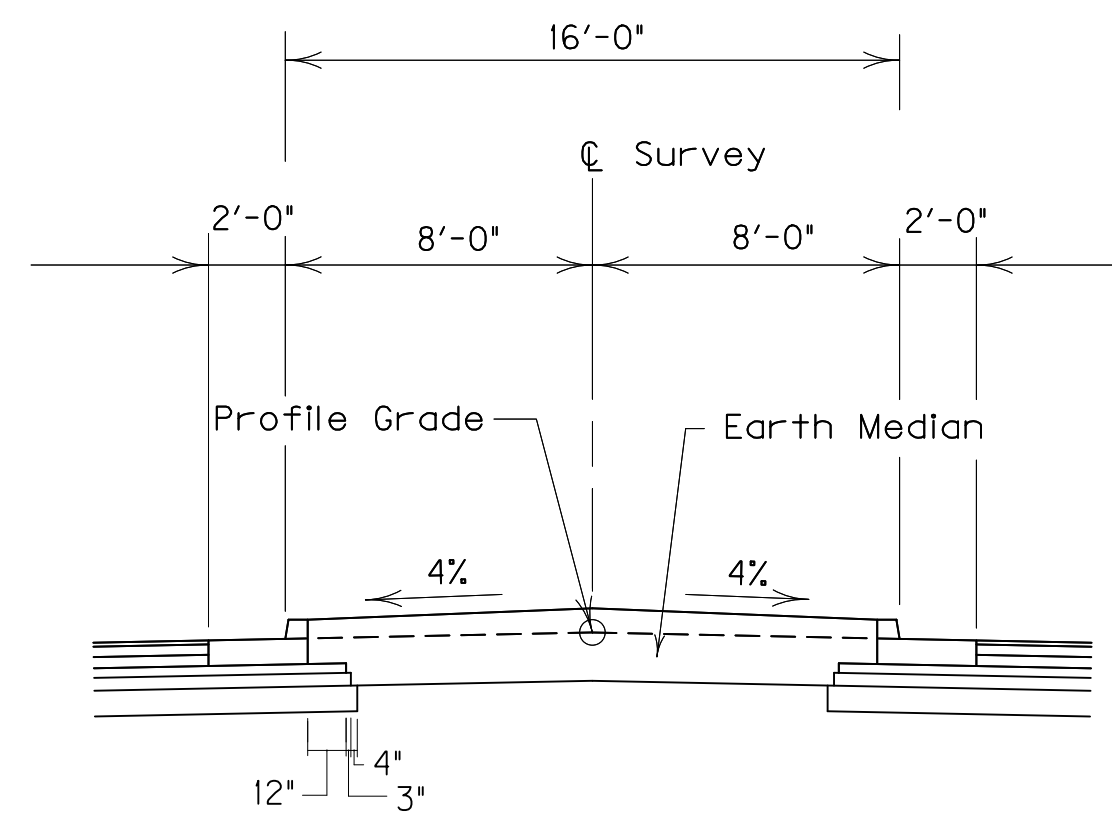


DETAIL "A"

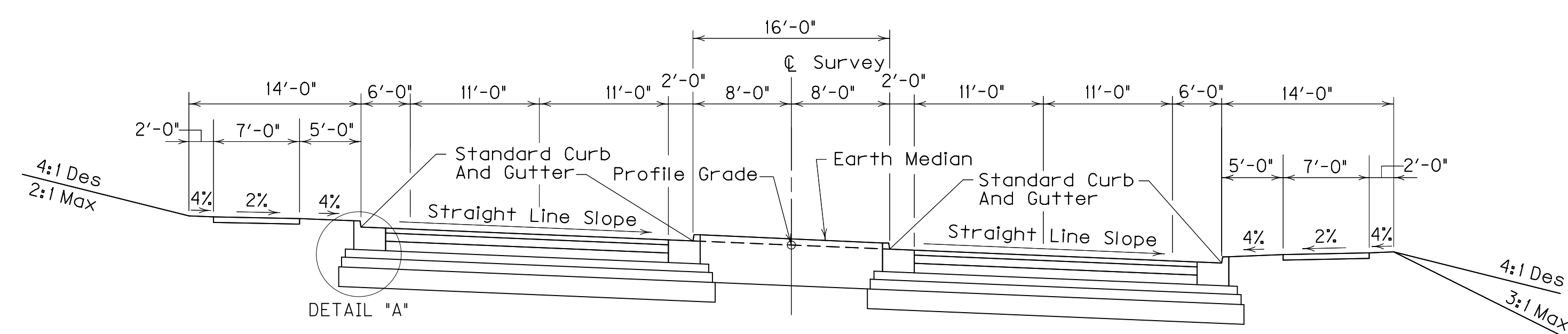
NORMAL SECTION

Sta 108+00 To Sta 182+25

SEE X - SECTIONS FOR SLOPES
OUTSIDE SHOULDERS LIMITS



MEDIAN DETAIL

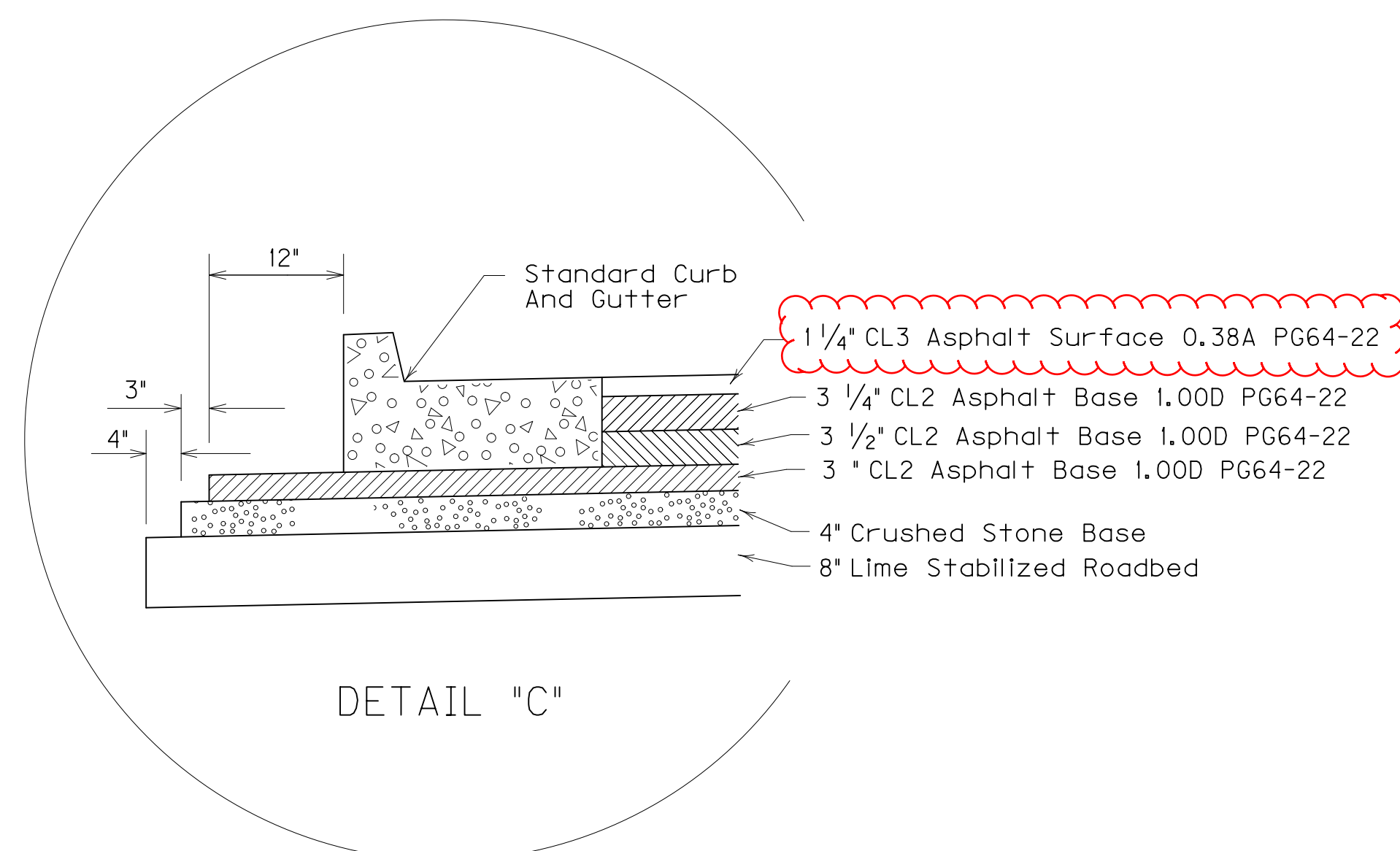


DETAIL "A"

SUPERELEVATED SECTION

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USING

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DETAIL "C"

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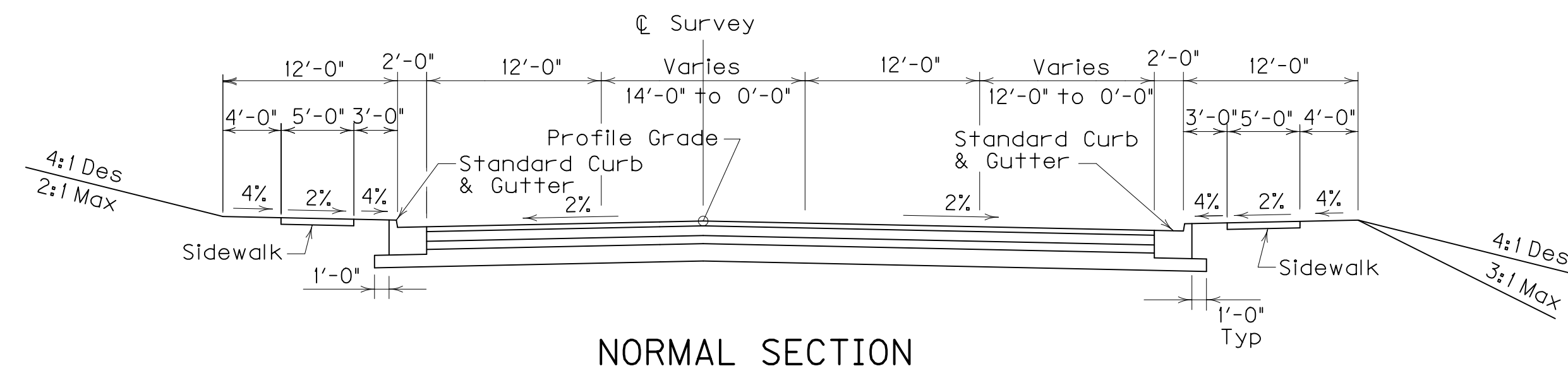
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TYPICAL SECTIONS

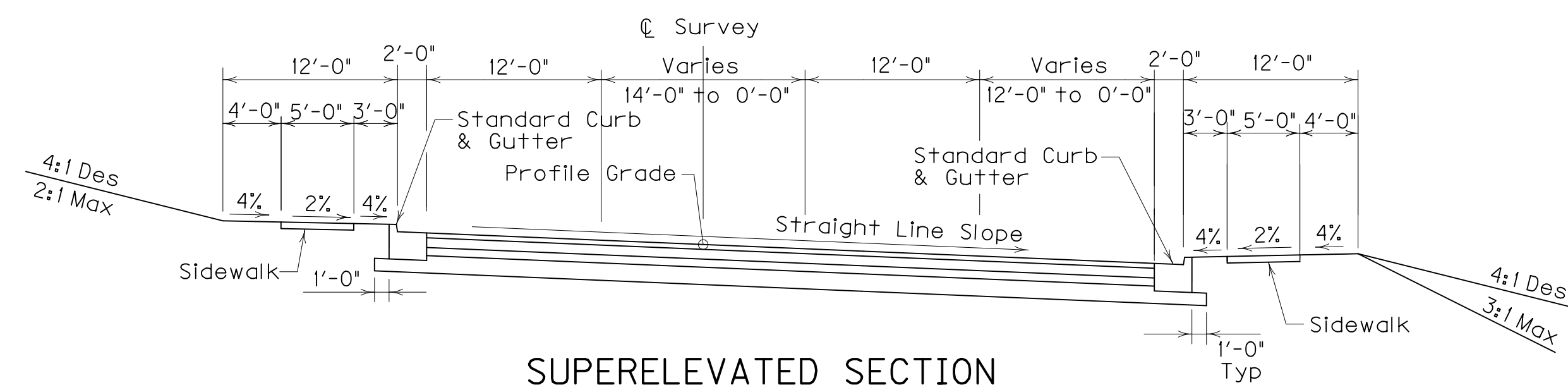
APPROACHES

WAYMAN BRANCH ROAD
STATION 144+53 TO STATION 150+00



NORMAL SECTION

SEE X - SECTIONS FOR SLOPES
OUTSIDE SHOULDERS LIMITS



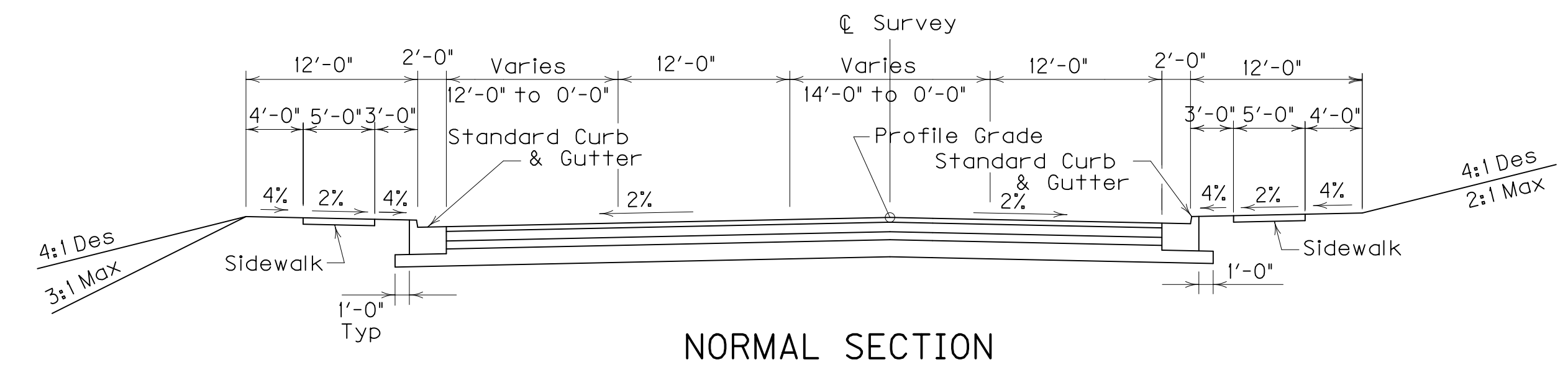
SUPERELEVATED SECTION

NEW CONSTRUCTION
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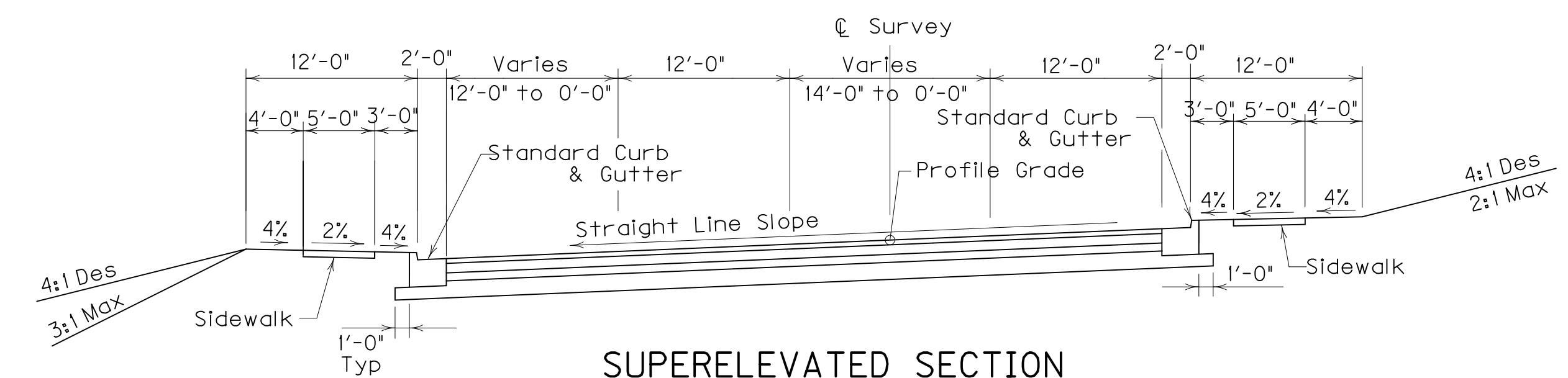
APPROXIMATELY 1 1/4" SURFACE [1 1/4" COMPACTED DEPTH CL2 ASPHALT SURFACE 0.38D PG64-22

OLD KY 16 CONNECTOR



NORMAL SECTION

SEE X - SECTIONS FOR SLOPES
OUTSIDE SHOULDERS LIMITS



SUPERELEVATED SECTION

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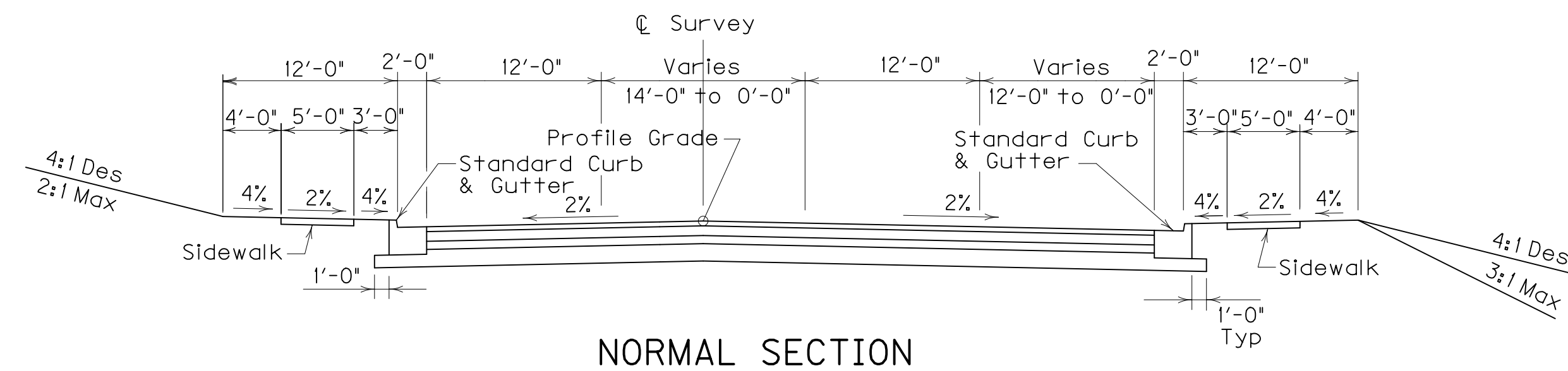
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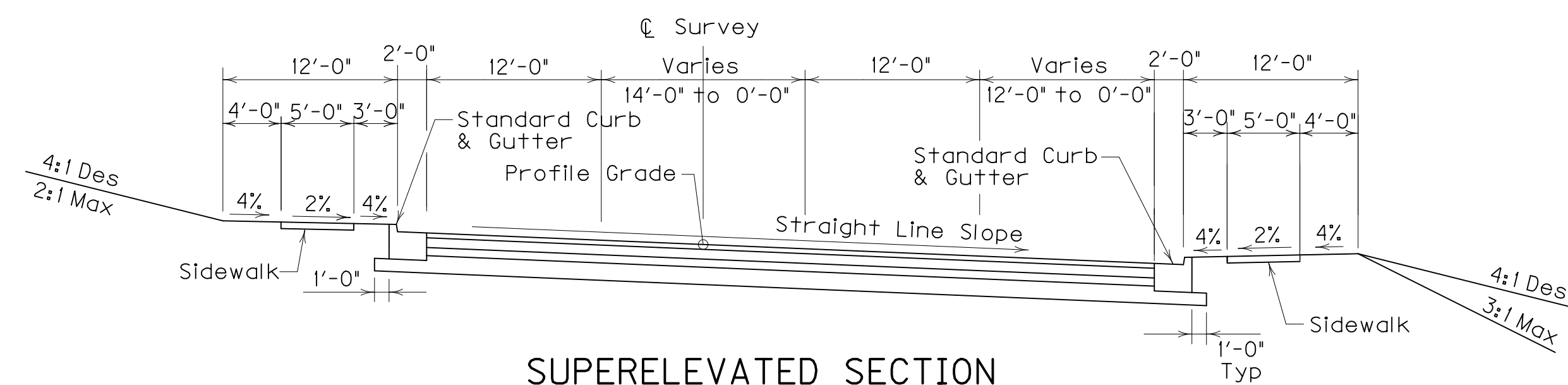
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NORMAL SECTION

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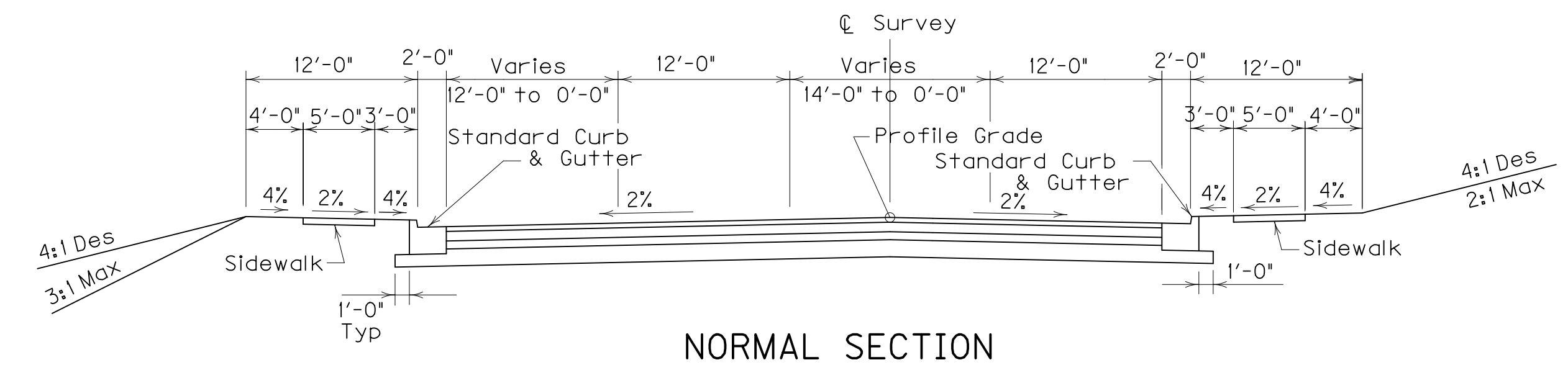
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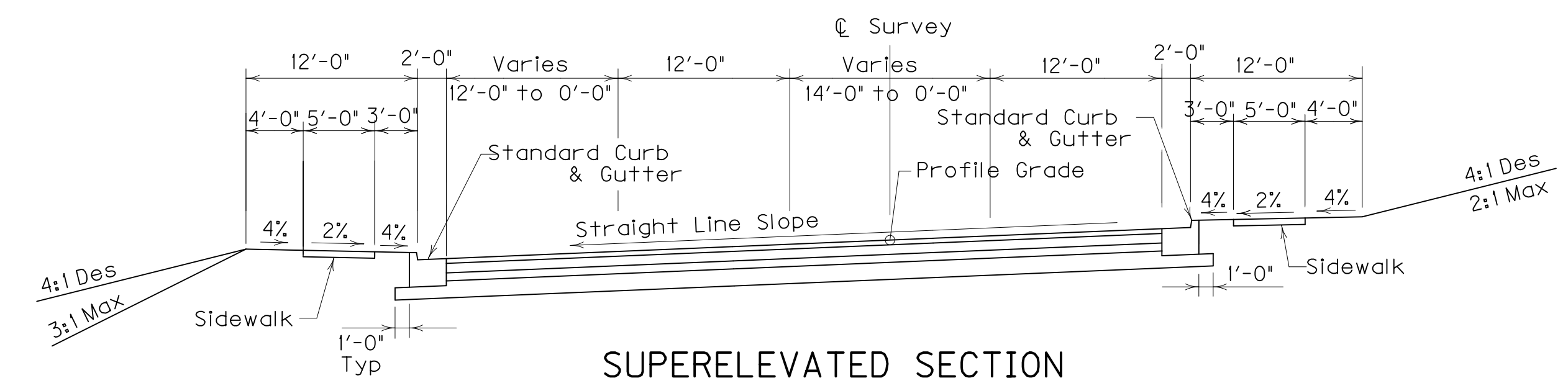
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OLD KY 16 CONNECTOR



NORMAL SECTION

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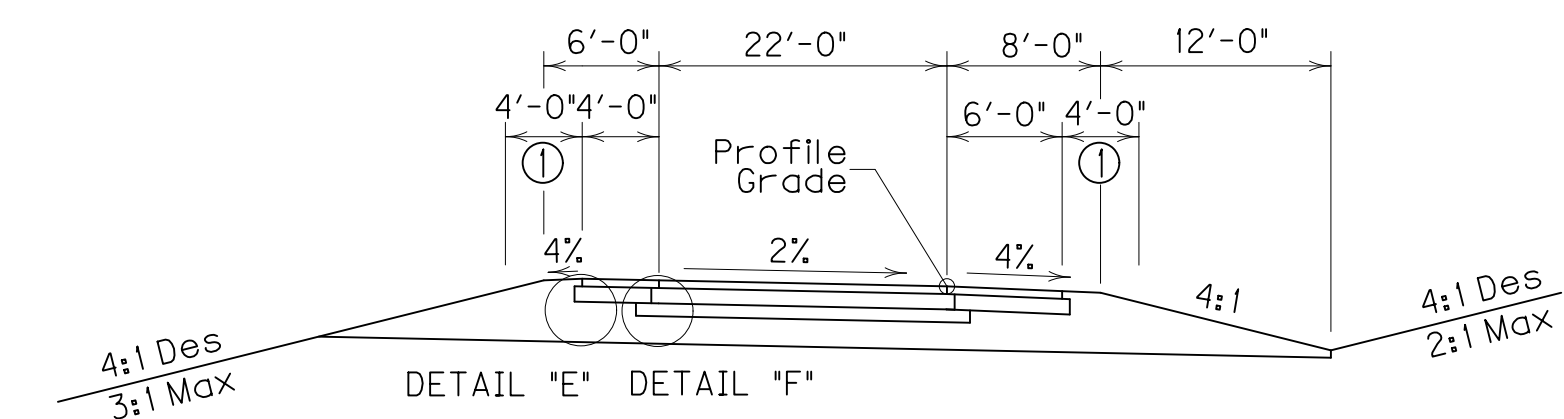
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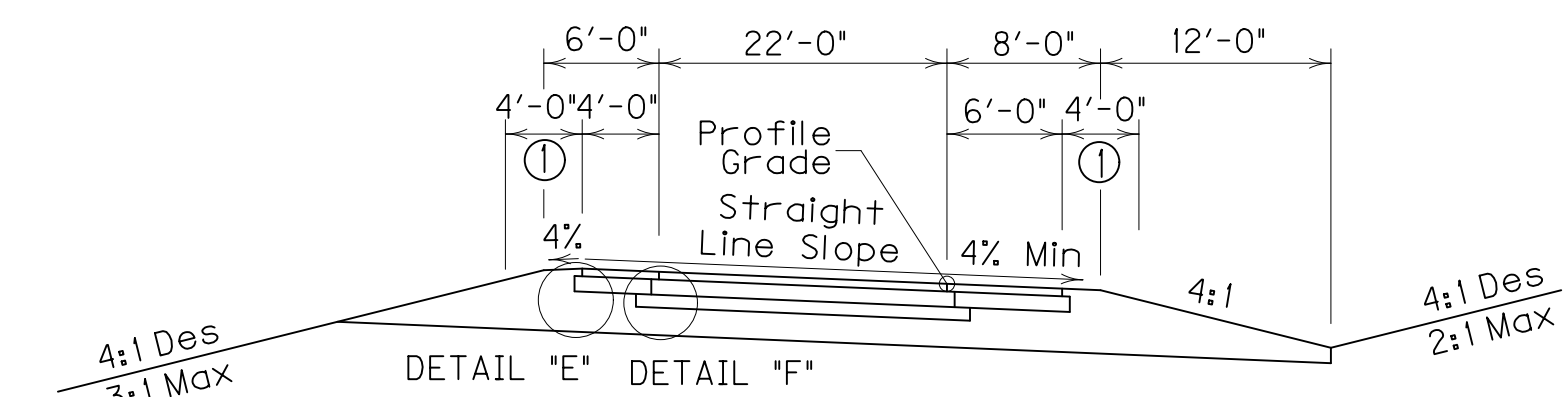
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TYPICAL SECTIONS

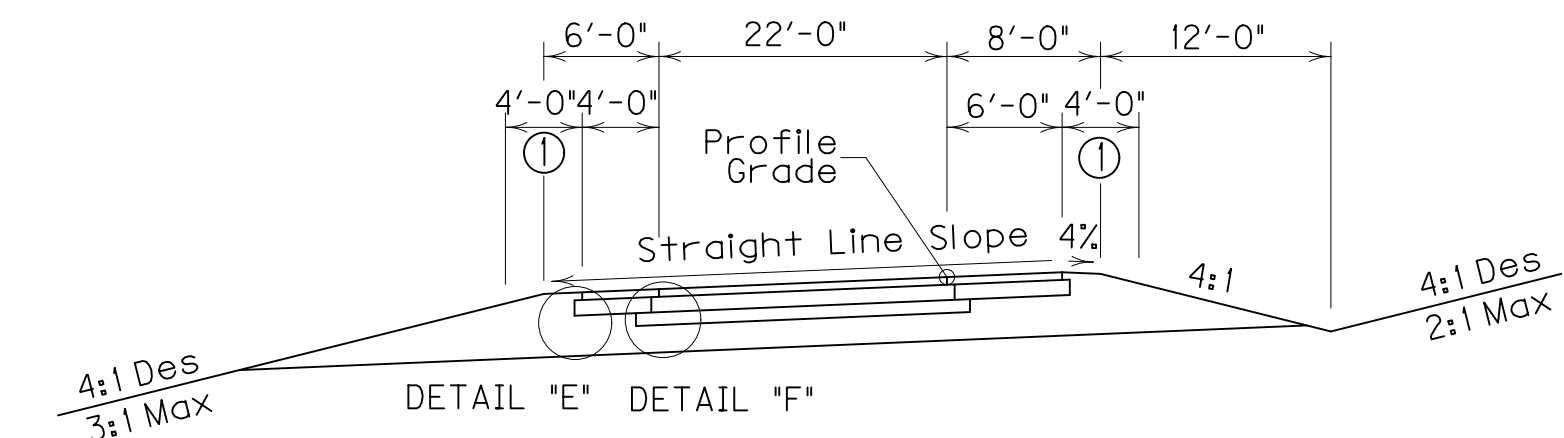
TRUCK RAMP



NORMAL SECTION



SUPERELEVATED SECTION RT



SUPERELEVATED SECTION LT

NEW CONSTRUCTION GRADE, DRAIN & FLEXIBLE PAVEMENT USING

APPROXIMATELY 13 1/2" BASE [8" COMPACTED DEPTH CRUSHED STONE BASE AND 5 1/2" COMPACTED DEPTH CL2 ASPHALT BASE 0.75D PG64-22 (2 1/2" + 3" COURSES)]

APPROXIMATELY 1 1/4" SURFACE [1 1/4" COMPACTED DEPTH CL3 ASPHALT SURFACE 0.38A PG64-22]

AND WITH FULL DEPTH SHOULDER

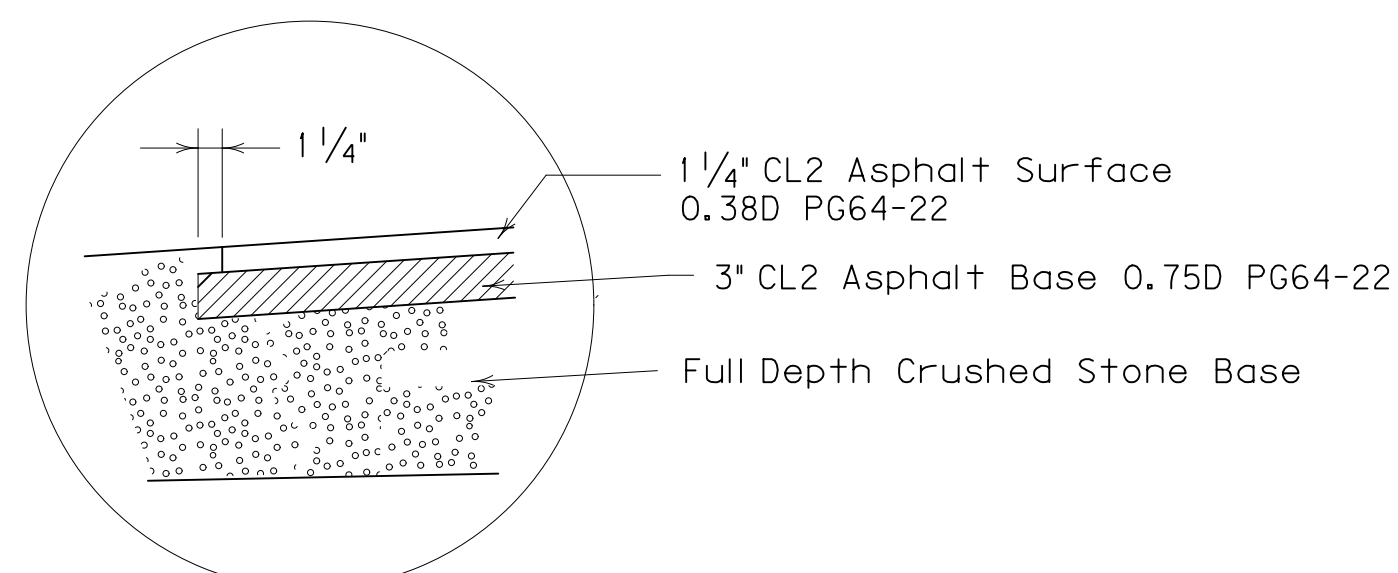
FULL DEPTH BASE [FULL DEPTH CRUSHED STONE BASE AND 3" COMPACTED DEPTH CL2 ASPHALT BASE 0.75D PG64-22]

APPROXIMATELY 1 1/4" SURFACE [1 1/4" COMPACTED DEPTH CL2 ASPHALT SURFACE 0.38D PG64-22]

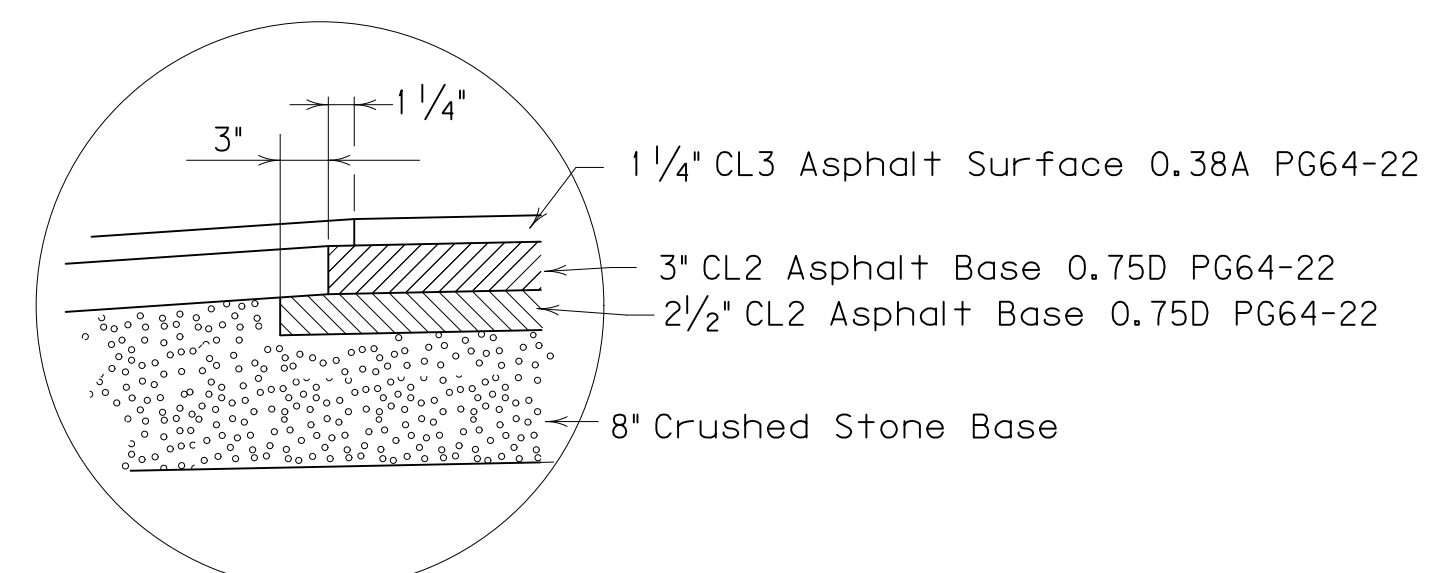
① AND WITH ASPHALT SEAL COAT (2 APPLICATIONS) [2.40 LBS/SQ YD ASPHALT SEAL COAT AND 20 LBS/SQ YD ASPHALT SEAL AGGREGATE]

PREPARED BY _____ DATE _____
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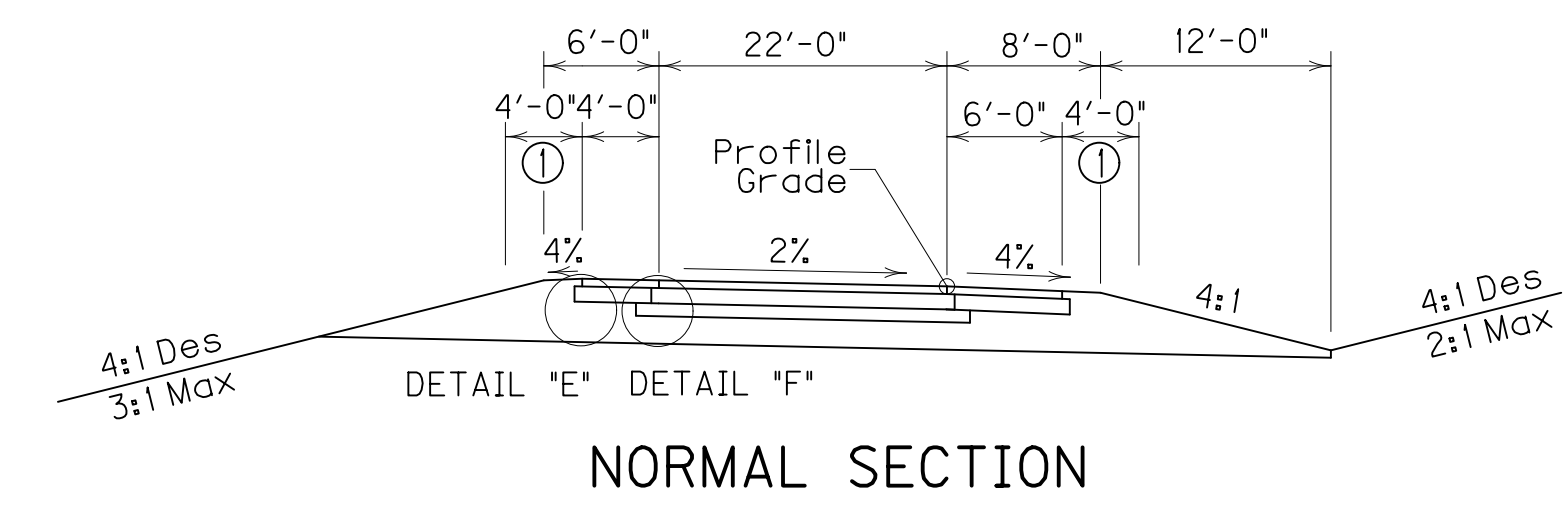
DETAIL "E"



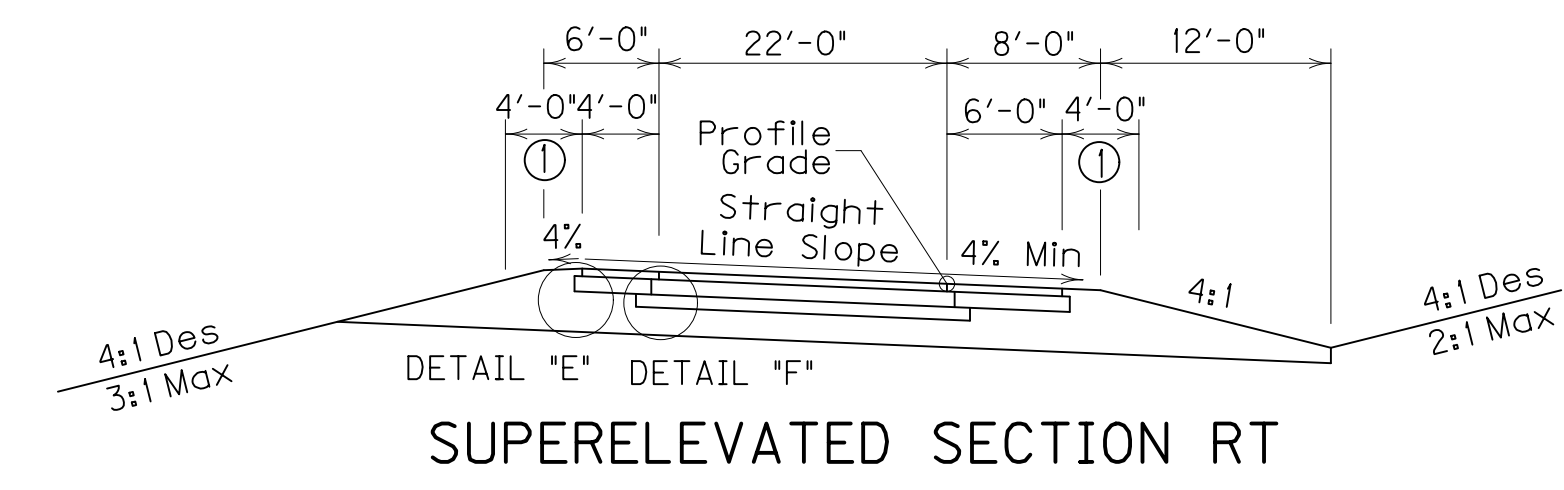
DETAIL "F"

TYPICAL SECTIONS

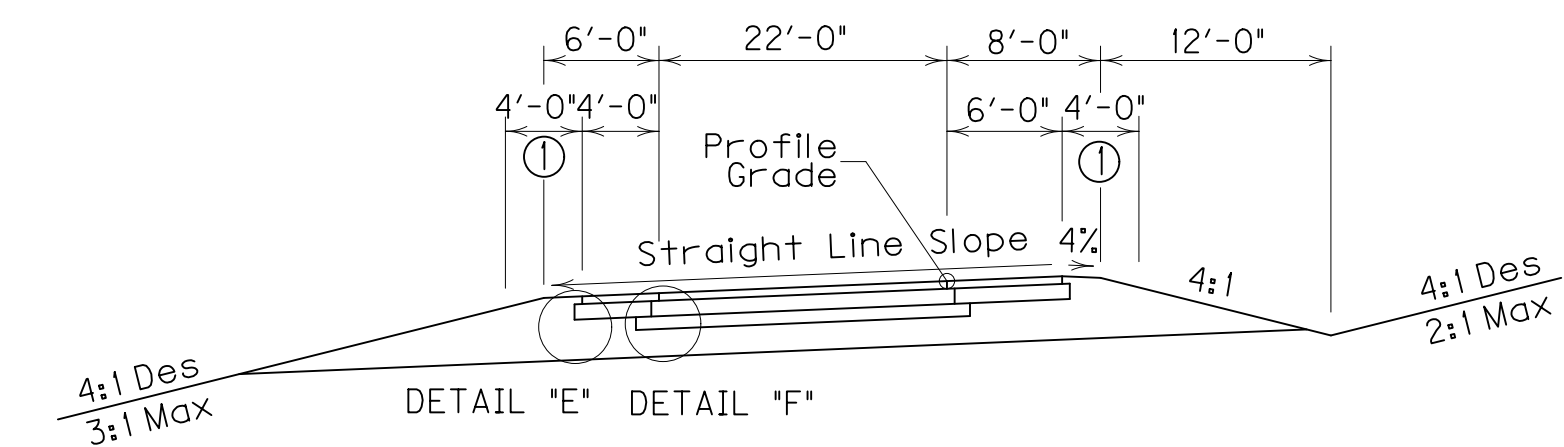
TRUCK RAMP



NORMAL SECTION



SUPERELEVATED SECTION RT



SUPERELEVATED SECTION LT

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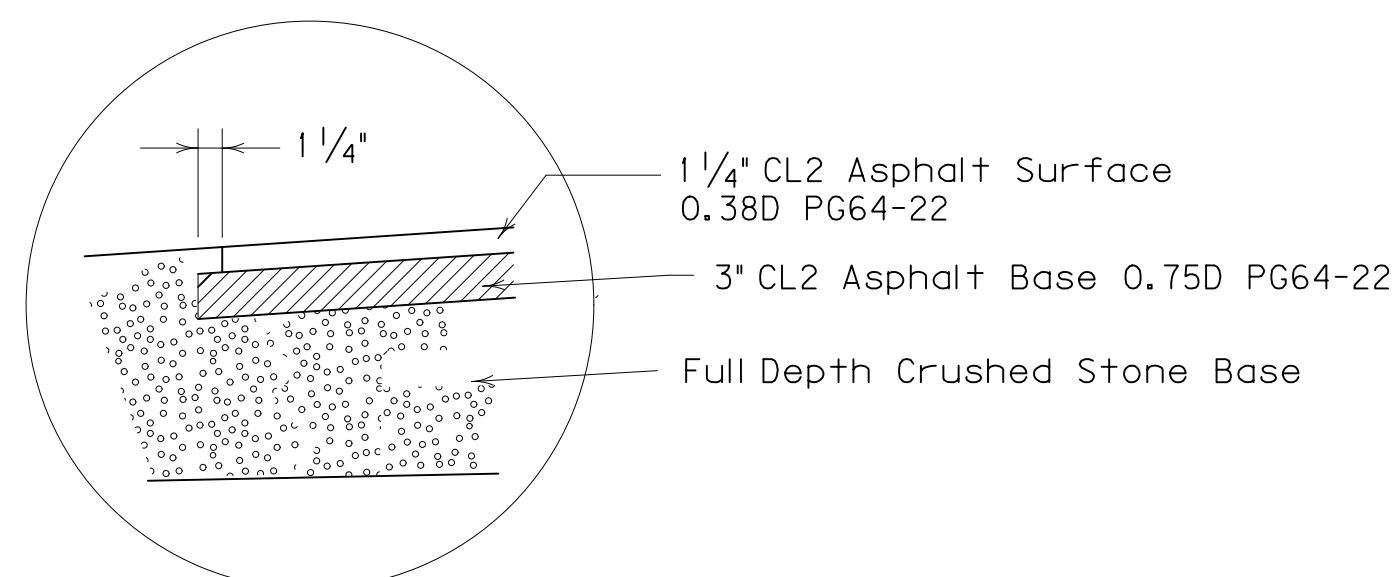
FULL DEPTH BASE [FULL DEPTH CRUSHED STONE BASE AND 3" COMPACTED DEPTH CL2 ASPHALT BASE 0.75D PG64-22]

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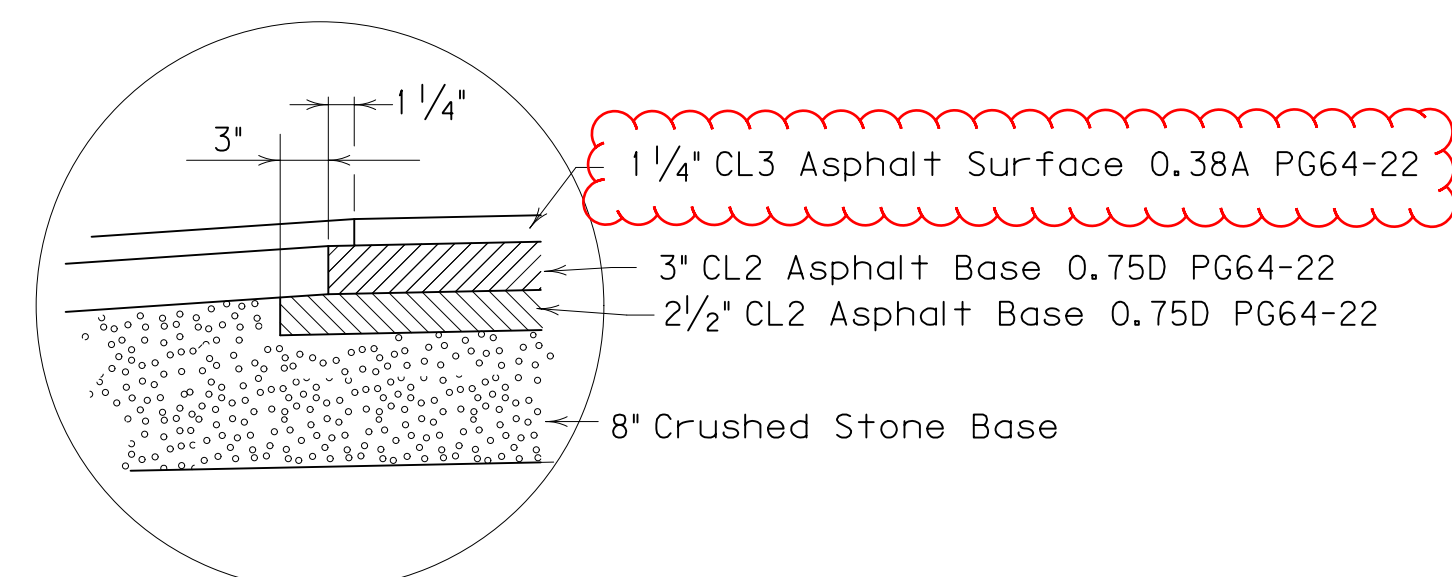
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DETAIL "E"



DETAIL "F"

PAVING AREAS

COUNTY OF	ITEM NO.	SHEET NO.
Kenton	6-344.30	R2r

ITEM	BID CODE	KY 16	SUNBRITE DRIVE	GARNER DRIVE	HEATHERMOOR BLVD	VINCENT DRIVE	WAYMAN BRANCH ROAD	OLD WAYMAN BRANCH ROAD	HIGH RIDGE ROAD	OLD KY 16 CONNECTOR	MAFRED DRIVE CONNECTOR	TRUCK RAMP	SOUTH SCOTT HIGH SCHOOL ENTRANCE	MIDDLE SCOTT HIGH SCHOOL ENTRANCE	NORTH SCOTT HIGH SCHOOL ENTRANCE	LAKWOOD DRIVE	OLD TAYLOR MILL ROAD CONN 1	CEMETERY ACCESS ROAD	ENTRANCES	ROBERTSON ROAD	DIVERSIONS	TOTAL PROJECT
		S Q U A R E Y A R D S																				
1 1/4 INCH CL2 ASPH SURF 0.38D PG64-22	301		364	396		294	2969	513	237		633	380		496	629		1307	538	2576	807	8851	20990
1 1/4 INCH CL3 ASPH SURF 0.38A PG64-22	22906ES403	73641								4050		785										78476
3 INCH CL2 ASPH BASE 1.00D PG64-22	212	75434																				75434
3 1/4 INCH CL2 ASPH BASE 1.00D PG64-22	212	65348																				65348
3 1/2 INCH CL2 ASPH BASE 1.00D PG64-22	212	66286																				66286
2 1/4 INCH CL2 ASPH BASE 0.75D PG64-22	221																			2606		2606
2 1/2 INCH CL2 ASPH BASE 0.75D PG64-22	221		364	408		294	2986	527	237	4050	641	810		496	629		1343	553		835		14173
3 INCH CL2 ASPH BASE 0.75D PG64-22	221		364	400		294	2974	517	237	4050	636	1173		496	629		1318	543		815	18059	32505
4 INCH CRUSHED STONE BASE	3	75524	74		636					70						540				2705		79549
6 INCH CRUSHED STONE BASE	3																			1504		1504
6 3/4 INCH CRUSHED STONE BASE	3		89			90	376		77	683	97			75	195							1682
8 INCH CRUSHED STONE BASE	3		364	416		294	2996	536	237	4050	646	825		496	629		1364	562		851		14266
10 INCH CRUSHED STONE BASE	3																				9322	9322
LIME STABILIZED ROADBED	13	65961																				65961
8 INCH JPC PAVEMENT- NON-REINFORCED	2084				470											400				1368		2238
VARIABLE DEPTH CRUSHED STONE BASE - TONS	3											437										437
ASPHALT SEAL COAT (2.4 LBS/ SQ YD)	103											271										271
ASPHALT SEAL AGGREGATE (20 LBS/ SQ YD)	100																					271

PREPARED BY _____ DATE _____
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Roadway Plan Review
 FILE: SUM.DGN
 DATE: 14-Apr-03 09:56
 FORM NO. Special USERNAME: civ-don

COUNTY OF	ITEM NO.	SHEET NO.
Kenton	6-344.30	R2+

PROPOSAL ATTACHMENTS

SPECIAL NOTE 9Y FOR MATERIAL TRANSFER VEHICLE
SPECIAL PROVISION 114 FOR MOBILIZATION AND DEMOBILIZATION

160 N.G.S. (U.S.G.S.) BENCH MARKS
DO NOT DISTURB N.G.S. (U.S.G.S.) BENCH MARKS IN ANY MANNER UNLESS DIRECTED BY THE ENGINEER.

BEFORE YOU DIG

165 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 THE 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 THAT AREA.

190 DEPARTMENT OF THE ARMY PERMIT AND WATER QUALITY CERTIFICATION APPROVALS
A DEPARTMENT OF THE ARMY (DA) PERMIT, WHICH MAY REQUIRE APPROVAL OF A STATE WATER QUALITY CERTIFICATION FROM THE KENTUCKY DIVISION OF WATER, REGULATES THIS PROJECT AT ONE OR MORE LOCATIONS. PERFORM ALL APPLICABLE WORK IN COMPLIANCE WITH THE CONDITIONS STATED IN THE DA PERMIT AND THE APPROVED WATER QUALITY CERTIFICATION. POST A COPY OF THE DA PERMIT AND THE WATER QUALITY CERTIFICATION IN A CONSPICUOUS PLACE AT THE PROJECT SITE. IF A DA PERMIT OR WATER QUALITY CERTIFICATION APPROVAL IS PENDING, DO NOT WORK IN OR DISTURB THE DESIGNATED AREA(S) UNTIL OBTAINING THE APPROPRIATE APPROVAL(S). REFER TO NOTICE(S) CONTAINED IN THE CONTRACT BID PROPOSAL FOR DESIGNATED AREA(S) WHERE WORK IS PROHIBITED BY THE ABSENCE OF APPROVAL.

276 LIME STABILIZED ROADBED
STABILIZE THE TOP EIGHT (8) INCHES OF THE FINISHED ROADBED WITH LIME IN ACCORDANCE WITH SECTION 208 OF THE STANDARD SPECIFICATIONS. USE SELECTED SOILS, HAVING A MINIMUM C.B.R. VALUE OF 2 FOR THIS PURPOSE. THE LIME CONTENT IS 6 PERCENT BY WEIGHT, AND THE ESTIMATED PLAN QUANTITY USED AN AVERAGE DRY DENSITY OF 101 LBS/CUBIC FEET. HOWEVER, ADJUST THE QUANTITY AFTER CONSTRUCTING THE ROADBED AND SUBMITTING THE SAMPLES FOR TESTING. THIS TAKES APPROXIMATELY TWO WEEKS.

ASPHALT PAVEMENTS

429 WINTER CLOSEDOWN
ANY ASPHALT CONCRETE BASE AND/OR SURFACE COURSE USED AS A RIDING SURFACE EXPOSED TO TRAFFIC DURING WINTER CLOSEDOWN PERIODS SHALL CONTAIN NATURAL, CONGLOMERATE, CRUSHED SLAG, CRUSHED GRANITE OR CRUSHED SANDSTONE SAND IN THE PROPORTION OF NO LESS THAN 25% OF THE TOTAL COMBINED COARSE AND FINE AGGREGATE.

444 ASPHALT PAVEMENT RIDE QUALITY
PAVEMENT RIDEABILITY REQUIREMENTS, IN ACCORDANCE WITH SECTION 410 OF THE STANDARD SPECIFICATIONS, SHALL APPLY ON THIS PROJECT. CATEGORY 'A' WILL APPLY ON THIS PROJECT.

447 COMPACTION OF ASPHALT MIXTURES
WILL ACCEPT THE COMPACTION OF ASPHALT MIXTURES FURNISHED FOR DRIVING LANES AND RAMPS AT ONE INCH OR GREATER ON THIS PROJECT BY OPTION A ACCORDING TO SUBSECTIONS 402 AND 403 OF THE CURRENT STANDARD SPECIFICATIONS. USE JOINT CORES AS DESCRIBED IN SUBSECTION 402.03.02 FOR SURFACE MIXTURES ONLY. WILL ACCEPT THE COMPACTION OF ALL OTHER ASPHALT MIXTURES BY OPTION B.

455 EDGE KEY
THIS WORK INCLUDES CUTTING OUT THE EXISTING ASPHALT SURFACE TO A MINIMUM DEPTH AND WIDTH AS DETAILED ELSEWHERE IN THE PLANS SO THAT THE NEW SURFACE MAY HEEL INTO THE EXISTING SURFACE. THE CONTRACT UNIT PRICE BID LINEAR FOOT FOR "EDGE KEY" INCLUDES ALL NECESSARY MATERIALS, LABOR AND EQUIPMENT NECESSARY TO PERFORM THE WORK AND DISPOSE OF THE REMOVED ASPHALT MATERIAL.

650 STANDARD DRAWINGS
STANDARD DRAWINGS ARE NOT ATTACHED TO THESE PLANS. A STANDARD DRAWING BOOK AND THE HEADWALL SUPPLEMENTAL BOOK MAY BE OBTAINED FROM THE POLICY SUPPORT BRANCH OF THE DEPARTMENT OF ADMINISTRATIVE SERVICES IN FRANKFORT, KY. AT (502)564-3670.

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

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DD-MMM-YYYY HH:MM

COUNTY OF	ITEM NO.	SHEET NO.
Kenton	6-344.30	R2+

PROPOSAL ATTACHMENTS

SPECIAL NOTE 9Y FOR MATERIAL TRANSFER VEHICLE
SPECIAL PROVISION 114 FOR MOBILIZATION AND DEMOBILIZATION

160 N.G.S. (U.S.G.S.) BENCH MARKS
DO NOT DISTURB N.G.S. (U.S.G.S.) BENCH MARKS IN ANY MANNER UNLESS DIRECTED BY THE ENGINEER.

BEFORE YOU DIG

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PREPARED BY _____ DATE _____
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WATER MAIN SUMMARY

COUNTY OF	ITEM NO.	SHEET NO.
KENTON	6-344.30	U47

*TAYLOR MILL ROAD {KY 16}
FD04 059 0017 009-016*

BID CODE	ITEM	UNIT	TOTALS																
1095	8" DUCTILE IRON PIPE, CLASS 50 W/POLYWRAP	LF	3,715																
23572EC	8" RESTRAINED JOINT DUCTILE IRON PIPE, CLASS 50 W/POLYWRAP	LF	40																
1097	10" DUCTILE IRON PIPE, CLASS 50 W/POLYWRAP	LF	20																
1099	12" DUCTILE IRON PIPE, CLASS 50 W/POLYWRAP	LF	616																
1103	16" DUCTILE IRON PIPE, CLASS 50 W/POLYWRAP	LF	6,477																
1103	16" RESTRAINED JOINT DUCTILE IRON PIPE, CLASS 50 W/POLYWRAP	LF	363																
20784ND	8"x8"x6" ANCHORING TEE & BLOCK	EA	5																
20552NC	8"x8"x8" TEE & BLOCK	EA	3																
20785ND	16"x16"x6" ANCHORING TEE & BLOCK	EA	11																
20786ND	16"x16"x8" TEE & BLOCK	EA	7																
21094ND	16"x16"x8" TEE (RESTRAINED JOINT-NO BLOCK)	EA	1																
22819NN	16"x16"x12" TEE & BLOCK	EA	2																
23201EG	TEE 16 IN X 16 IN X 16 IN (RESTRAINED)	EA	3																
3442	DUCTILE IRON FITTING (16 IN X 8 IN CROSS)	EA	1																
23442EC	6" RESILIENT SEATED GATE VALVE	EA	22																
23443EC	8" RESILIENT SEATED GATE VALVE	EA	18																
3530	10" RESILIENT SEATED GATE VALVE	EA	2																
22874NN	12" RESILIENT SEATED GATE VALVE	EA	2																
3536	16" RESILIENT SEATED GATE VALVE	EA	19																
3495	AIR RELEASE VALVES	EA	1																
20554NC	6" BEND & BLOCK	EA	4																
20555NC	8" BEND & BLOCK	EA	41																
22445NN	8" RESTRAINED JOINT BEND (NO BLOCK)	EA	3																
22603NN	10" BEND & BLOCK	EA	4																
20788ND	12" BEND & BLOCK	EA	5																
20789ND	16" BEND & BLOCK	EA	6																
20794ND	8"x6"REDUCER	EA	6																
23735EC	12"x10" REDUCER	EA	4																
20056NN	REDUCER (16 IN X 6 IN)	EA	1																
20559NC	CONNECT TO 6"	EA	5																
22447NN	CONNECT TO 8"	EA	6																
22169NN	CONNECT TO 10"	EA	4																
20791ND	CONNECT TO 16"	EA	1																
3433	RELOCATE FIRE HYDRANT	EA	14																
20793ND	16" PLUG & BLOCK	EA	3																
3438	RECONNECT TO MAIN	EA	22																
3437	RECONNECT TO SERVICE	EA	30																
3431	RELOCATE WATER METER	EA	20																
3360	3/4 INCH COPPER SERVICE	LF	862																
3361	1 INCH COPPER SERVICE	LF	45																
3362	1-1/2 INCH COPPER SERVICE	LF	130																
3363	2 INCH COPPER SERVICE	LF	160																
3427	ADJUST WATER METER TO GRADE (ALL SIZES)	EA	10																
20792ND	ADJUST WATER VALVE BOXES (ALL SIZES)	EA	9																
3426	ADJUST FIRE HYDRANT TO GRADE	EA	2																
20156EC	FIRE HYDRANT ASSEMBLY	EA	5																
3543	BEND 11.25 DEG 16 IN (RESTRAINED)	EA	3																
3552	BEND 22.45 DEG 16 IN (RESTRAINED)	EA	3																
3558	BEND 45 DEG 16 IN (RESTRAINED)	EA	1																
22866NN	WATER METER 2 IN (TEMPORARY)	EA	1																
22761ND	12"x12"x6" ANCHORING TEE & BLOCK	EA	1																

* NOTES *

1. Contractor shall supply field notes upon completion of project in sufficient detail to prepare "Record Drawings".
2. Location of utilities and structures, both existing and proposed, are shown on the plans from data available at time of bidding, and are not necessarily complete or correct. During construction the contractor shall use diligence in protecting from damage all existing utilities and structures whether shown on the plans or not. If damage is caused, the contractor will be responsible for repair or restoration of same to the satisfaction of the Engineer and the utility company.
3. Contractor to uncover and confirm exact location of existing water mains and services at connection points prior to construction.
4. Prior to start of any water main construction, a "Sequence of Construction" shall be provided in writing to the Northern Kentucky Water District.
5. Contractor to coordinate and expedite the water main construction in the proper phases of the project and minimize the shut-down time of the water mains.
6. Contractor may be required to make temporary water main terminations and reconnections, using approved NKWD materials and methods, during construction phasing sequences to provide continuous water service. This is "incidental" to the cost of water main.
7. All abandoned water meters to be marked, removed, and services disconnected by Northern Kentucky Water District prior to construction. Contractor to confirm disconnect with NKWD prior to construction.
8. Items and instruction labels in (parenthesis) are incidentals to construction of item.
9. Contractor to coordinate all shut-down times with the Northern Kentucky Water District. PHONE: 859-578-9898
10. Maximum water main joint deflection: 16" = 3 1/4" or less
12" or less = 5" or less

FOR FURTHER INSTRUCTIONS AND EXPLANATIONS,
SEE BID SPECIFICATIONS !!!

WATER MAIN PLAN PREPARED FOR:
NORTHERN KENTUCKY WATER DISTRICT
 2835 Crescent Springs Road
 Erlanger, Kentucky 41018
 ph: 859-578-9898

WATER MAIN PLAN PREPARED BY:

VIOX & VIOX

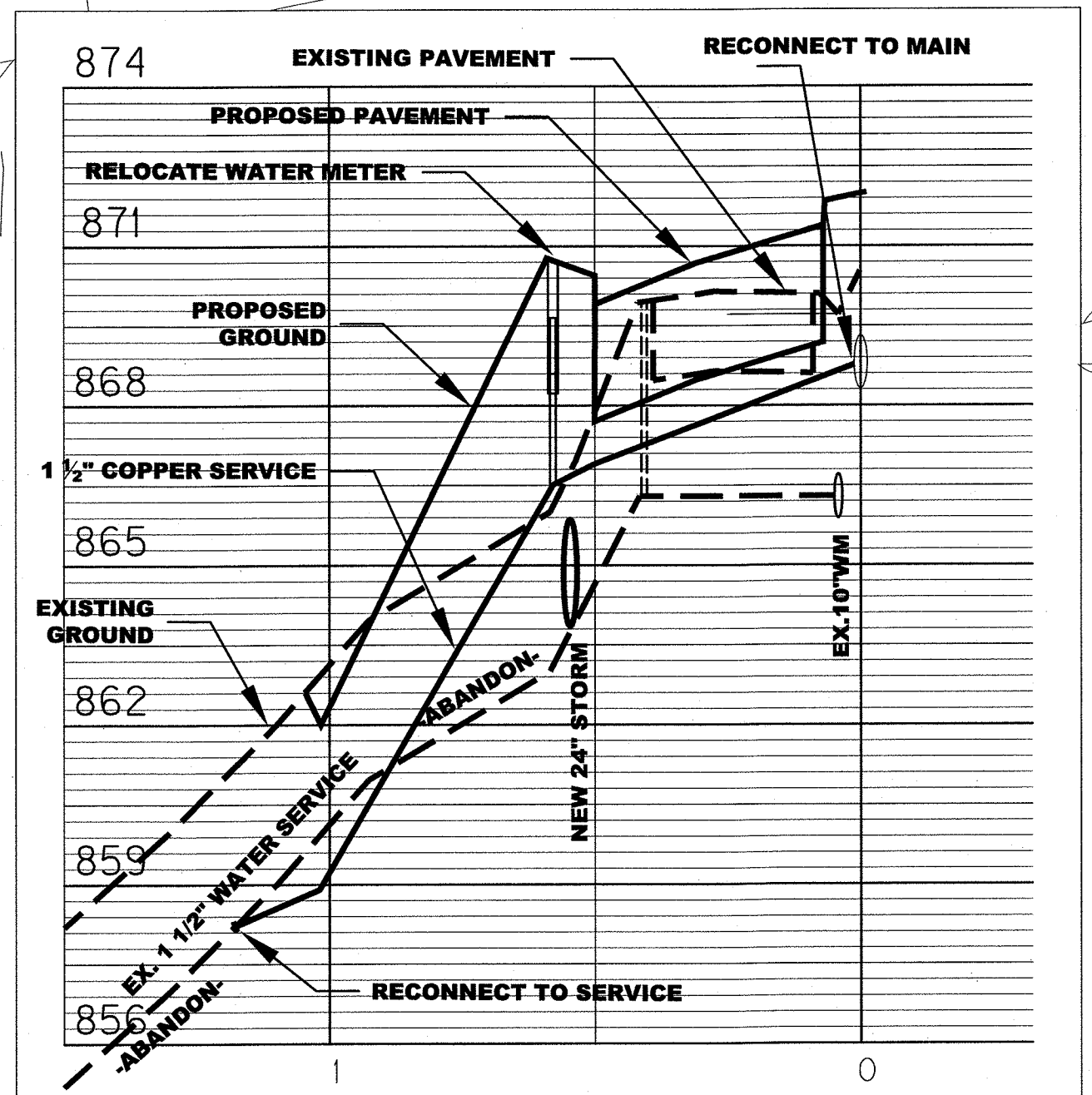
Civil Engineers, Surveyors, and Landscape Architects
 466 Erlanger Road • Erlanger, Kentucky 41018
 Ph (859) 727-3293 • Fax (859) 727-8452 • www.vioxinc.com

OCT 11 2012

WATER MAIN CONSTRUCTION ONLY

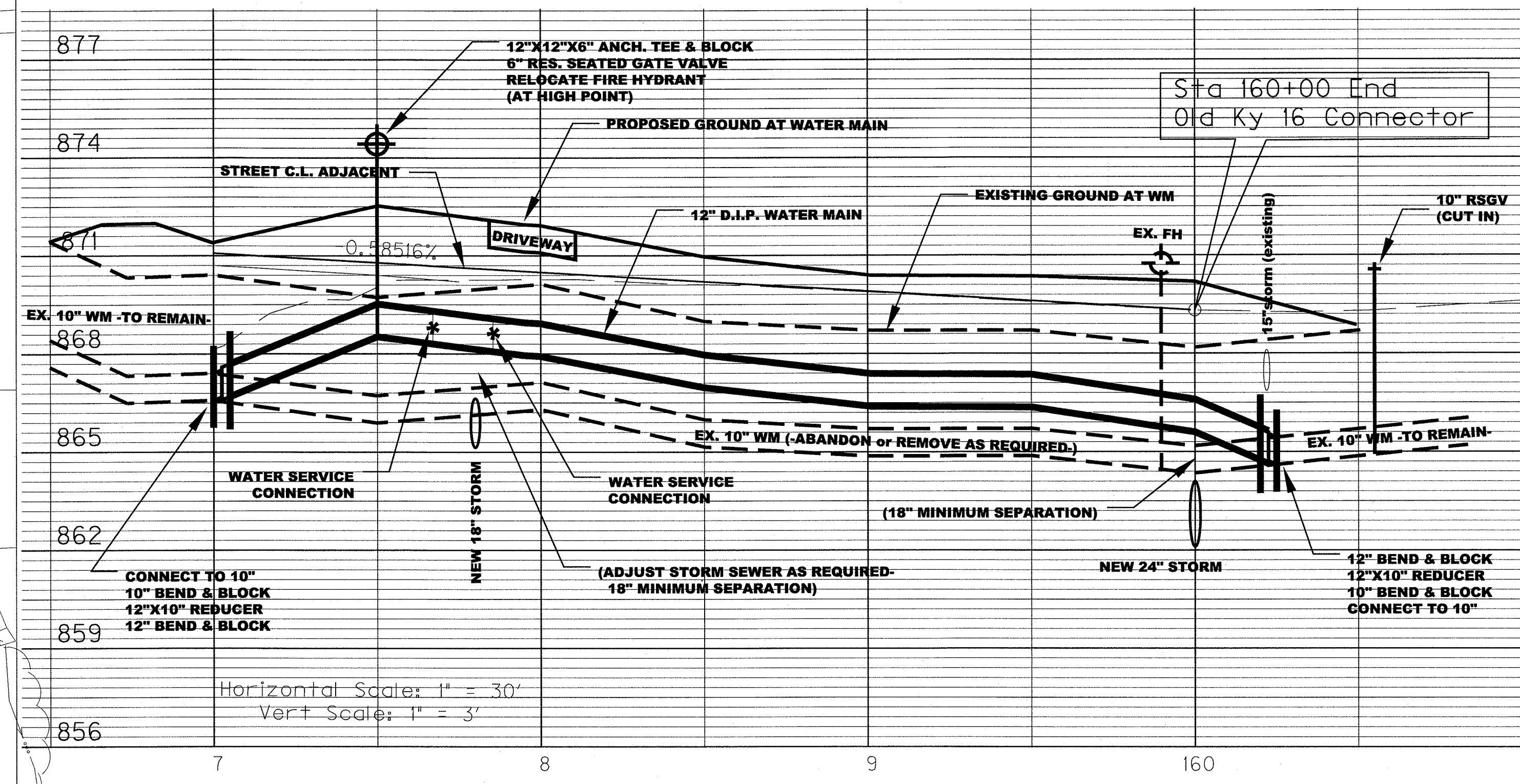
WATER MAIN SUMMARY

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Sta 160+00 ~ End
Old Ky 16 Connector

10" RESILIENT SEATED GATE VALVE
(CUT IN PRIOR TO CONSTRUCTION)



-CAUTION-
(COORDINATE CONSTRUCTION WITH
UTILITY COMPANY IN CLOSE
PROXIMITY TO EXISTING AND
PROPOSED UTILITY POLES- EXTRA
SUPPORT AND ANCHORING MAY BE
NECESSARY- INCIDENTAL)

P.I. 160+32.97
D = 3°52'44" Rt.
C = 2°12'13"
T = 88.04'
L = 176.01'
R = 2600.00'
E = 1.49'
e = NC

P.I. 156+28.05
D = 46°00'47" Lt.
C = 11°27'33"
T = 212.30'
L = 401.54'
R = 500.00'
E = 43.21'
e = 4.0%
Runoff = 75'
Runout = 37.5'

ADJUST WATER METER BOX
(RELOCATE TO FINAL
ELEVATION AT SIDEWALK
ELEVATION)

RECONNECT TO MAIN
RECONNECT TO SERVICE
RELOCATE WATER METER
1 1/2" COPPER SERVICE

RECONNECT TO MAIN
RECONNECT TO SERVICE
RELOCATE WATER METER
3/4" COPPER SERVICE

CONNECT TO 10"
10" 45° BEND & BLOCK
12" X10" REDUCER
12" 45° BEND & BLOCK

12" X12" X6" ANCHORING TEE & BLOCK
6" RESILIENT SEATED GATE VALVE
RELOCATE FIRE HYDRANT

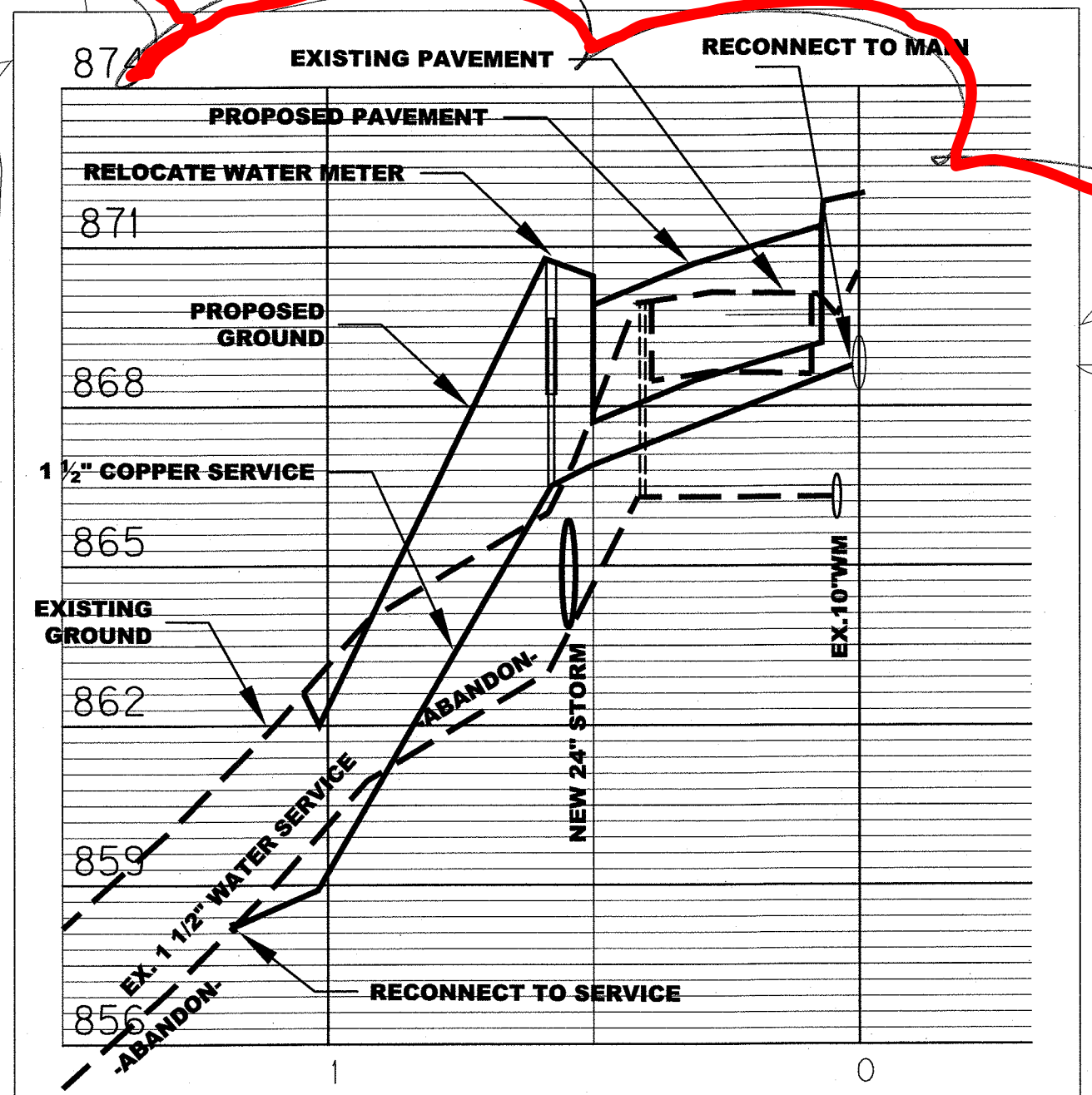
12" 45° BEND & BLOCK
12" X10" REDUCER
10" 45° BEND & BLOCK
CONNECT TO 10"
(INCLUDE RESETTING
15" CMP AND CONCRETE
DRIVEWAY REPAIR
AS REQUIRED)

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

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WATER MAIN CONSTRUCTION ONLY

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HAROLD D. HEUSER
SHARON S. HEUSER (WF)

THOMAS W. WILSON
HEATHER M. WILSON (WF)

Sta 160+00 ~ End
Old Ky 16 Connector

10" RESILIENT SEATED GATE VALVE
(CUT IN PRIOR TO CONSTRUCTION)

Sta 160+00 End
Old Ky 16 Connector

12" 45' BEND & BLOCK
12" X10" REDUCER
10" 45' BEND & BLOCK
CONNECT TO 10"
(INCLUDE RESETTling
15" CMP AND CONCRETE
DRIVEWAY REPAIR
AS REQUIRED)

-CAUTION-
(COORDINATE CONSTRUCTION WITH
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RECONNECT TO MAIN
RECONNECT TO SERVICE
RELOCATE WATER METER
3/4" COPPER SERVICE

12" X12" X6" ANCHORING TEE & BLOCK
6" RESILIENT SEATED GATE VALVE
RELOCATE FIRE HYDRANT

CONNECT TO 10"
10" 45' BEND & BLOCK
12" X10" REDUCER
12" 45' BEND & BLOCK

ADJUST WATER METER BOX
(RELOCATE TO FINAL
ELEVATION AT SIDEWALK
ELEVATION)

RECONNECT TO MAIN
RECONNECT TO SERVICE
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1 1/2" COPPER SERVICE

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W.S.E.
852.1

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WATER MAIN CONSTRUCTION ONLY

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SPECIAL NOTE FOR PORTABLE CHANGEABLE MESSAGE SIGNS

This Special Note will apply when indicated on the plans or in the proposal.

1.0 DESCRIPTION. Furnish, install, operate, and maintain variable message signs at the locations shown on the plans or designated by the Engineer. Remove and retain possession of variable message signs when they are no longer needed on the project.

2.0 MATERIALS.

2.1 General. Use LED Variable Message Signs Class I, II, or III, as appropriate, from the Department's List of Approved Materials.

Unclassified signs may be submitted for approval by the Engineer. The Engineer may require a daytime and nighttime demonstration. The Engineer will make a final decision within 30 days after all required information is received.

2.2 Sign and Controls. All signs must:

- 1) Provide 3-line messages with each line being 8 characters long and at least 18 inches tall. Each character comprises 35 pixels.
- 2) Provide at least 40 preprogrammed messages available for use at any time. Provide for quick and easy change of the displayed message; editing of the message; and additions of new messages.
- 3) Provide a controller consisting of:
 - a) Keyboard or keypad.
 - b) Readout that mimics the actual sign display. (When LCD or LCD type readout is used, include backlighting and heating or otherwise arrange for viewing in cold temperatures.)
 - c) Non-volatile memory or suitable memory with battery backup for storing pre-programmed messages.
 - d) Logic circuitry to control the sequence of messages and flash rate.
- 4) Provide a serial interface that is capable of supporting complete remote control ability through land line and cellular telephone operation. Include communication software capable of immediately updating the message, providing complete sign status, and allowing message library queries and updates.
- 5) Allow a single person easily to raise the sign to a satisfactory height above the pavement during use, and lower the sign during travel.
- 6) Be Highway Orange on all exterior surfaces of the trailer, supports, and controller cabinet.
- 7) Provide operation in ambient temperatures from -30 to + 120 degrees Fahrenheit during snow, rain and other inclement weather.
- 8) Provide the driver board as part of a module. All modules are interchangeable, and have plug and socket arrangements for disconnection and reconnection. Printed circuit boards associated with driver boards have a conformable coating to protect against moisture.
- 9) Provide a sign case sealed against rain, snow, dust, insects, etc. The lens is UV stabilized clear plastic (polycarbonate, acrylic, or other approved material) angled to prevent glare.
- 10) Provide a flat black UV protected coating on the sign hardware, character PCB, and appropriate lens areas.
- 11) Provide a photocell control to provide automatic dimming.

- 12) Allow an on-off flashing sequence at an adjustable rate.
- 13) Provide a sight to aim the message.
- 14) Provide a LED display color of approximately 590 nm amber.
- 15) Provide a controller that is password protected.
- 16) Provide a security device that prevents unauthorized individuals from accessing the controller.
- 17) Provide the following 3-line messages preprogrammed and available for use when the sign unit begins operation:

/KEEP/RIGHT/=>>>/	/MIN/SPEED/**MPH/
/KEEP/LEFT/←←←/	/ICY/BRIDGE/AHEAD/ /ONE
/LOOSE/GRAVEL/AHEAD/	LANE/BRIDGE/AHEAD/
/RD WORK/NEXT/**MILES/	/ROUGH/ROAD/AHEAD/
/TWO WAY/TRAFFIC/AHEAD/	/MERGING/TRAFFIC/AHEAD/
/PAINT/CREW/AHEAD/	/NEXT/**/MILES/
/REDUCE/SPEED/**MPH/	/HEAVY/TRAFFIC/AHEAD/
/BRIDGE/WORK/**0 FT/	/SPEED/LIMIT/**MPH/
/MAX/SPEED/**MPH/	/BUMP/AHEAD/
/SURVEY/PARTY/AHEAD/	/TWO/WAY/TRAFFIC/

*Insert numerals as directed by the Engineer.
Add other messages during the project when required by the Engineer.

2.3 Power.

- 1) Design solar panels to yield 10 percent or greater additional charge than sign consumption. Provide direct wiring for operation of the sign or arrow board from an external power source to provide energy backup for 21 days without sunlight and an on-board system charger with the ability to recharge completely discharged batteries in 24 hours.

3.0 CONSTRUCTION. Furnish and operate the variable message signs as designated on the plans or by the Engineer. Ensure the bottom of the message panel is a minimum of 7 feet above the roadway in urban areas and 5 feet above in rural areas when operating. Use Class I, II, or III signs on roads with a speed limit less than 55 mph. Use Class I or II signs on roads with speed limits 55 mph or greater.

Maintain the sign in proper working order, including repair of any damage done by others, until completion of the project. When the sign becomes inoperative, immediately repair or replace the sign. Repetitive problems with the same unit will be cause for rejection and replacement.

Use only project related messages and messages directed by the Engineer, unnecessary messages lessen the impact of the sign. Ensure the message is displayed in either one or 2 phases with each phase having no more than 3 lines of text. When no message is needed, but it is necessary to know if the sign is operable, flash only a pixel.

When the sign is not needed, move it outside the clear zone or where the Engineer directs. Variable Message Signs are the property of the Contractor and shall be removed from the project when no longer needed. The Department will not assume ownership of these signs.

4.0 MEASUREMENT. The final quantity of Variable Message Sign will be

11

the actual number of individual signs acceptably furnished and operated during the project. The Department will not measure signs replaced due to damage or rejection.

5.0 PAYMENT. The Department will pay for the Variable Message Signs at the unit price each. The Department will not pay for signs replaced due to damage or rejection. Payment is full compensation for furnishing all materials, labor, equipment, and service necessary to, operate, move, repair, and maintain or replace the variable message signs. The Department will make payment for the completed and accepted quantities under the following:

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
02671	Portable Changeable Message Sign	Each

Effective June 15, 2012

PROPOSAL BID ITEMS

Report Date 10/17/12

SECTION: 0001 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED PRICE
0010	00003		CRUSHED STONE BASE	31,827.00	TON		
0020	00013		LIME STABILIZED ROADBED	65,961.00	SQYD		
0030	00014		LIME	1,200.00	TON		
0040	00020		TRAFFIC BOUND BASE	2,000.00	TON		
0050	00021		DRAINAGE BLANKET-EMBANKMENT	8,737.00	CUYD		
0060	00071		CRUSHED AGGREGATE SIZE NO 57	18.00	TON		
0070	00078		CRUSHED AGGREGATE SIZE NO 2	6,614.00	TON		
0080	00100		ASPHALT SEAL AGGREGATE	5.42	TON		
0090	00103		ASPHALT SEAL COAT	.65	TON		
0100	00212		CL2 ASPH BASE 1.00D PG64-22	36,888.00	TON		
0110	00221		CL2 ASPH BASE 0.75D PG64-22	7,645.00	TON		
0120	00301		CL2 ASPH SURF 0.38D PG64-22	1,443.00	TON		
0130	00440		ENTRANCE PIPE-15 IN	208.00	LF		
0140	00441		ENTRANCE PIPE-18 IN	82.00	LF		
0150	00461		CULVERT PIPE-15 IN	319.00	LF		
0160	00462		CULVERT PIPE-18 IN	112.00	LF		
0170	00464		CULVERT PIPE-24 IN	31.92	LF		
0180	00521		STORM SEWER PIPE-15 IN	476.00	LF		
0190	00522		STORM SEWER PIPE-18 IN	8,395.00	LF		
0200	00524		STORM SEWER PIPE-24 IN	2,760.00	LF		
0210	00526		STORM SEWER PIPE-30 IN	922.00	LF		
0220	00528		STORM SEWER PIPE-36 IN	1,159.00	LF		
0230	00530		STORM SEWER PIPE-48 IN	8.00	LF		
0240	01000		PERFORATED PIPE-4 IN	196.00	LF		
0250	01002		PERFORATED PIPE-8 IN	767.00	LF		
0260	01010		NON-PERFORATED PIPE-4 IN	76.00	LF		
0270	01011		NON-PERFORATED PIPE-6 IN	9.00	LF		
0280	01012		NON-PERFORATED PIPE-8 IN	447.00	LF		
0290	01026		PERF PIPE HEADWALL TY 2-8 IN	6.00	EACH		
0300	01433		SLOPED BOX OUTLET TYPE 1-18 IN	1.00	EACH		
0310	01450		S & F BOX INLET-OUTLET-18 IN	1.00	EACH		
0320	01452		S & F BOX INLET-OUTLET-30 IN	1.00	EACH		
0330	01456		CURB BOX INLET TYPE A	104.00	EACH		
0340	01496		DROP BOX INLET TYPE 3	11.00	EACH		
0350	01538		DROP BOX INLET TYPE 7	8.00	EACH		

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SECTION: 0001 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED PRICE
0360	01544		DROP BOX INLET TYPE 11	1.00	EACH		
0370	01559		DROP BOX INLET TYPE 13G	2.00	EACH		
0380	01580		DROP BOX INLET TYPE 15	5.00	EACH		
0390	01642		JUNCTION BOX-18 IN	1.00	EACH		
0400	01644		JUNCTION BOX-30 IN	2.00	EACH		
0410	01645		JUNCTION BOX-36 IN	1.00	EACH		
0420	01756		MANHOLE TYPE A	3.00	EACH		
0430	01767		MANHOLE TYPE C	4.00	EACH		
0440	01810		STANDARD CURB AND GUTTER	27,956.47	LF		
0450	01820		LIP CURB AND GUTTER	125.65	LF		
0460	01891		ISLAND HEADER CURB TYPE 2	173.13	LF		
0470	01917		STANDARD BARRIER MEDIAN TYPE 2	926.00	SQYD		
0480	02001		CURB TO BARRIER WALL TRANS	4.00	EACH		
0490	02014		BARRICADE-TYPE III	16.00	EACH		
0500	02084		JPC PAVEMENT-8 IN	2,238.00	SQYD		
0510	02091		REMOVE PAVEMENT	4,287.00	SQYD		
0520	02101		CEM CONC ENT PAVEMENT-8 IN	1,293.50	SQYD		
0530	02159		TEMP DITCH	7,425.00	LF		
0540	02160		CLEAN TEMP DITCH	14,850.00	LF		
0550	02200		ROADWAY EXCAVATION	415,768.00	CUYD		
0560	02223		GRANULAR EMBANKMENT	10,924.00	CUYD		
0570	02242		WATER	3,000.00	MGAL		
0580	02261		FENCE-WOVEN WIRE	86.00	LF		
0590	02351		GUARDRAIL-STEEL W BEAM-S FACE	50.00	LF		
0600	02360		GUARDRAIL TERMINAL SECTION NO 1	4.00	EACH		
0610	02367		GUARDRAIL END TREATMENT TYPE 1	2.00	EACH		
0620	02397		TEMP GUARDRAIL	725.00	LF		
0630	02429		RIGHT-OF-WAY MONUMENT TYPE 1	75.00	EACH		
0640	02432		WITNESS POST	1.00	EACH		
0650	02545		CLEARING AND GRUBBING 75 ACRES	1.00	LS		
0660	02562		SIGNS	1,059.80	SQFT		
0670	02585		EDGE KEY	334.85	LF		
0680	02599		FABRIC-GEOTEXTILE TYPE IV	90,378.00	SQYD		
0690	02600		FABRIC GEOTEXTILE TY IV FOR PIPE	38,859.00	SQYD	\$2.00	\$77,718.00
0700	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		

PROPOSAL BID ITEMS

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SECTION: 0001 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED PRICE
0710	02651		DIVERSIONS (BY-PASS DETOURS) #3; (REVISED: 10-17-12)	1.00	LS		
0720	02651		DIVERSIONS (BY-PASS DETOURS) #4; (REVISED: 10-17-12)	1.00	LS		
0730	02651		DIVERSIONS (BY-PASS DETOURS) RIGHT OF LAKEWOOD DRIVE; (REVISED: 10-17-12)	1.00	LS		
0740	02653		LANE CLOSURE	12.00	EACH		
0750	02671		PORTABLE CHANGEABLE MESSAGE SIGN (REVISED: 10-17-12)	6.00	EACH		
0760	02701		TEMP SILT FENCE	9,675.00	LF		
0770	02703		SILT TRAP TYPE A	150.00	EACH		
0780	02704		SILT TRAP TYPE B	150.00	EACH		
0790	02705		SILT TRAP TYPE C	225.00	EACH		
0800	02706		CLEAN SILT TRAP TYPE A	450.00	EACH		
0810	02707		CLEAN SILT TRAP TYPE B	450.00	EACH		
0820	02708		CLEAN SILT TRAP TYPE C	675.00	EACH		
0830	02709		CLEAN TEMP SILT FENCE	29,025.00	LF		
0840	02720		SIDEWALK-4 IN CONCRETE	14,374.70	SQYD		
0850	02726		STAKING	1.00	LS		
0860	02775		ARROW PANEL	4.00	EACH		
0870	05950		EROSION CONTROL BLANKET	4,137.00	SQYD		
0880	05952		TEMP MULCH	357,490.00	SQYD		
0890	05953		TEMP SEEDING AND PROTECTION	23,890.00	SQYD		
0900	05966		TOPDRESSING FERTILIZER	12.55	TON		
0910	05985		SEEDING AND PROTECTION	241,572.00	SQYD		
0920	05989		SPECIAL SEEDING CROWN VETCH	63,109.00	SQYD		
0930	05997		TOPSOIL FURNISHED AND PLACED	3,231.00	CUYD		
0940	06510		PAVE STRIPING-TEMP PAINT-4 IN	45,576.00	LF		
0950	06514		PAVE STRIPING-PERM PAINT-4 IN	49,738.00	LF		
0960	06565		PAVE MARKING-THERMO X-WALK-6 IN	1,580.00	LF		
0970	06568		PAVE MARKING-THERMO STOP BAR-24IN	352.00	LF		
0980	06570		PAVE MARKING-PAINT CROSS-HATCH	1,017.00	SQFT		
0990	06574		PAVE MARKING-THERMO CURV ARROW	42.00	EACH		
1000	06575		PAVE MARKING-THERMO COMB ARROW	1.00	EACH		
1010	06588		PAVEMENT MARKER TY IVA-BY TEMP	285.00	EACH		
1020	06589		PAVEMENT MARKER TYPE V-MW	302.00	EACH		
1030	06591		PAVEMENT MARKER TYPE V-BY	156.00	EACH		
1040	08100		CONCRETE-CLASS A	15.22	CUYD		

PROPOSAL BID ITEMS

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SECTION: 0001 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED PRICE
1050	08150		STEEL REINFORCEMENT	829.50	LB		
1060	10020NS		FUEL ADJUSTMENT	137,995.00	DOLL	\$1.00	\$137,995.00
1070	10030NS		ASPHALT ADJUSTMENT	121,722.00	DOLL	\$1.00	\$121,722.00
1080	20782NS714		PAVE MARKING THERMO-BIKE	23.00	EACH		
1090	22906ES403		CL3 ASPH SURF 0.38A PG64-22 (REVISED: 10-17-12)	5,395.00	TON		
1100	23131ER701		PIPELINE VIDEO INSPECTION	7,164.00	LF		
1110	23158ES505		DETECTABLE WARNINGS	686.00	SQFT		
1120	23274EN11F		TURF REINFORCEMENT MAT 1	6,933.00	SQYD		
1130	23275EN11F		TURF REINFORCEMENT MAT 2	301.00	SQYD		
1140	23276EN11F		TURF REINFORCEMENT MAT 3	306.00	SQYD		
1150	23277EN11F		TURF REINFORCEMENT MAT 4	32.00	SQYD		

SECTION: 0002 - BRIDGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED PRICE
1160	02231		STRUCTURE GRANULAR BACKFILL	389.00	CUYD		
1170	02599		FABRIC-GEOTEXTILE TYPE IV	541.00	SQYD		
1180	02998		MASONRY COATING	5,363.00	SQYD		
1190	03299		ARMORED EDGE FOR CONCRETE	191.25	LF		
1200	08001		STRUCTURE EXCAVATION-COMMON	2,839.00	CUYD		
1210	08002		STRUCTURE EXCAV-SOLID ROCK	10,397.00	CUYD		
1220	08020		CRUSHED AGGREGATE SLOPE PROT	2,850.00	TON		
1230	08033		TEST PILES	121.00	LF		
1240	08050		PILES-STEEL HP14X73	890.00	LF		
1250	08095		PILE POINTS-14 IN	24.00	EACH		
1260	08100		CONCRETE-CLASS A	8,221.90	CUYD		
1270	08104		CONCRETE-CLASS AA	68.90	CUYD		
1280	08105		CONCRETE-CLASS AAA	3,315.30	CUYD		
1290	08150		STEEL REINFORCEMENT	1,484,340.00	LB		
1300	08151		STEEL REINFORCEMENT-EPOXY COATED	1,237,934.00	LB		
1310	08160		STRUCTURAL STEEL 3976 LBS.	1.00	LS		
1320	08472		EXPANSION DAM-4 IN NEOPRENE	105.25	LF		
1330	08637		PRECAST PC I BEAM TYPE 7	8,716.00	LF		
1340	08711		BRIDGE CHAIN LINK FENCE-6 FT	1,830.00	LF		
1350	21532ED		RAIL SYSTEM TYPE III	1,762.00	LF		

PROPOSAL BID ITEMS

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SECTION: 0003 - UTILITY-GAS LINE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED PRICE
1360	20721ND		HYDROSTATIC TEST 8 IN MAIN	1.00	EACH		
1370	20811ND		INSTALL M-C LONG-SIDE SERVICE PIPING-1IN	7.00	EACH		
1380	20812ND		INSTALL M-C SHORT-SIDE SERVICE PIPE-1 IN	3.00	EACH		
1390	23467EC		GAS MAIN-4 IN SWPC	890.00	LF		
1400	23468EC		GAS MAIN-4 IN PL	5,553.00	LF		
1410	23472EC		GAS MAIN-8 IN SWPC	2,185.00	LF		
1420	23737EC		VALVE ASSEMBLY-4 IN ST	1.00	EACH		
1430	24058EC		VALVE ASSEMBLY-4 IN PL	3.00	EACH		

SECTION: 0004 - SEWER

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED PRICE
1440	01095		DUCTILE IRON PIPE-8 IN	810.00	LF		
1450	01786		FILL AND CAP MANHOLE	9.00	EACH		
1460	01789		RECONSTRUCT MANHOLE	1.00	EACH		
1470	01799		SANITARY SEWER MANHOLE	22.00	EACH		
1480	02690		SAFELOADING	91.00	CUYD		
1490	03387		PVC PIPE-8 IN	1,871.00	LF		
1500	20057ES601		CONCRETE ENCASMENT	20.00	LF		
1510	24076EC		CONCRETE ANCHOR	3.00	EACH		

SECTION: 0005 - SIGNING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED PRICE
1520	06406		SBM ALUM SHEET SIGNS .080 IN	1,131.53	SQFT		
1530	06407		SBM ALUM SHEET SIGNS .125 IN	43.12	SQFT		
1540	06410		STEEL POST TYPE 1	1,899.00	LF		

SECTION: 0006 - WATERLINE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED PRICE
1550	01095		DUCTILE IRON PIPE-8 IN (REVISED: 10-17-12)	3,715.00	LF		
1560	01097		DUCTILE IRON PIPE-10 IN (REVISED: 10-17-12)	20.00	LF		
1570	01099		DUCTILE IRON PIPE-12 IN (REVISED: 10-17-12)	616.00	LF		
1580	01103		DUCTILE IRON PIPE-16 IN RESTRAINED; (REVISED: 10-17-12)	363.00	LF		
1590	01103		DUCTILE IRON PIPE-16 IN	6,477.00	LF		

PROPOSAL BID ITEMS

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SECTION: 0006 - WATERLINE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED PRICE
1600	03360		COPPER PIPE-3/4 IN	852.00	LF		
1610	03361		COPPER PIPE-1 IN	45.00	LF		
1620	03362		COPPER PIPE-1 1/2 IN	120.00	LF		
1630	03363		COPPER PIPE-2 IN	160.00	LF		
1640	03426		ADJUST FIRE HYDRANT	2.00	EACH		
1650	03427		ADJUST WATER METER	11.00	EACH		
1660	03431		RELOCATE WATER METER	21.00	EACH		
1670	03433		RELOCATE FIRE HYDRANT	14.00	EACH		
1680	03437		RECONNECT SERVICE	32.00	EACH		
1690	03438		RECONNECT TO MAIN	22.00	EACH		
1700	03442		DUCTILE IRON FITTINGS 16 X 8 IN CROSS	1.00	LB		
1710	03495		AIR RELEASE VALVE	1.00	EACH		
1720	03530		GATE VALVE-10 IN RESILIENT SEATED	1.00	EACH		
1730	03536		GATE VALVE-16 IN RESILIENT SEATED	19.00	EACH		
1740	03543		BEND 11.25 DEG 16 IN RESTRAINED	3.00	EACH		
1750	03552		BEND 22.50 DEG 16 IN RESTRAINED	3.00	EACH		
1760	03558		BEND 45 DEG 16 IN RESTRAINED	1.00	EACH		
1770	20056NN		REDUCER 16 X 6 IN	1.00	EACH		
1780	20156EC		FIRE HYDRANT ASSEMBLY	5.00	EACH		
1790	20552NC		TEE AND BLOCK 8 IN X 8 IN X 8 IN	3.00	EACH		
1800	20554NC		BEND AND BLOCK-6 IN	4.00	EACH		
1810	20555NC		BEND AND BLOCK-8 IN	41.00	EACH		
1820	20559NC		CONNECT TO 6 IN (REVISED: 10-17-12)	5.00	EACH		
1830	20784ND		ANCHOR TEE AND BLOCK 8IN X 8IN X 6 IN	5.00	EACH		
1840	20785ND		ANCHOR TEE AND BLOCK 16 IN X 16 IN X 6IN	11.00	EACH		
1850	20786ND		TEE AND BLOCK 16IN X 16 IN X 8 IN	7.00	EACH		
1860	20788ND		BEND AND BLOCK-12 IN (REVISED: 10-17-12)	5.00	EACH		
1870	20789ND		BEND AND BLOCK-16 IN (REVISED: 10-17-12)	6.00	EACH		
1880	20791ND		CONNECT TO 16 IN	1.00	EACH		
1890	20792ND		ADJUST WATER VALVE BOXES	10.00	EACH		
1900	20793ND		PLUG AND BLOCK-16 IN	3.00	EACH		
1910	20794ND		REDUCER 8 IN X 6 IN	6.00	EACH		

PROPOSAL BID ITEMS

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SECTION: 0006 - WATERLINE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED PRICE
1920	21094ND		TEE 12 IN X 8 IN	1.00	EACH		
1930	22169NN		CONNECT TO 10 IN	2.00	EACH		
1940	22445NN		RESTRAINED JOINT BEND-8 IN	3.00	EACH		
1950	22447NN		CONNECT TO 8 IN	6.00	EACH		
1960	22603NN		BEND AND BLOCK-10 IN	2.00	EACH		
1970	22761ND		ANCHORING TEE AND BLOCK-12X12X6 IN (ADDED: 10-17-12)	1.00	EACH		
1980	22819NN		TEE AND BLOCK-16 X 16 X 12 IN	2.00	EACH		
1990	22866NN		WATER METER 2 IN -TEMP	1.00	EACH		
2000	22874NN		RESILIENT SEAT GATE VALVE-12 IN	2.00	EACH		
2010	23201EC		TEE-16 IN X 16 IN	3.00	EACH		
2020	23442EC		RESILIENT SEATED GATE VALVE-6 IN (REVISED: 10-17-12)	22.00	EACH		
2030	23443EC		RESILIENT SEATED GATE VALVE-8 IN	18.00	EACH		
2040	23572EC		RESTRAINED JOINT DIP-CL50 W/ POLYWRAP-8IN (REVISED: 10-17-12)	40.00	LF		
2050	23735EC		REDUCER-12 X 10 IN	2.00	EACH		

SECTION: 0007 - MOB AND DEMOB

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED PRICE
2060	02568		MOBILIZATION	1.00	LS		
2070	02569		DEMOBILIZATION	1.00	LS		