

SIGNS

902 SIGNAL SIGNS TABULATED ON D-37A SHEET

CONCRETE FOOTINGS EMBEDDED

ITEM NO. 9031010
CY

STRUCTURAL STEEL POSTS*

POST DES NO. LF NO. 1 LF NO. 2 LF NO. 3 LF LBS PER FT 9031210 LBS

PIPE POSTS*

PIPE SIZE NO. 1 LF NO. 2 LF LBS PER FT 9031220 LBS

BACKING BARS**

2" X 3/8" BARS AT 2.55 LBS/FT
ITEM NO. 9031250A LF

U-CHANNEL POST

POST NO. 1 LF POST NO. 2 LF

PERFORATED SQUARE STEEL TUBE

2-INCH POST

ANCHORS
DRIVEN 12 GA. 7 GA. 7 GA.
ITEM NO. 9031270A 9031271A 9031273A 9031274

2.5-INCH POST

2.25" INSERT (6 FT)
ANCHORS
DRIVEN 7 GA. 7 GA.
ITEM NO. 9031280 9031272A 9031281A 9031285

BREAK-AWAY ASSEMBLY
ITEM NO. 9031241

EFFECTIVE: 07-01-2024

REMARKS AND OTHER REQUIRED ITEMS

DATE PREPARED
8/14/2024

ROUTE STATE
DISTRICT SHEET NO. X

COUNTY

JOB NO.

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MoDOT

SUBTOTAL

TOTAL

*BREAKAWAY ASSEMBLY IS INCIDENTAL FOR STRUCTURAL STEEL AND PIPE POSTS.
**BACKING BARS ARE TOTALED WITH STRUCTURAL STEEL OR PIPE POSTS.

ROUND PIPE POST AND FOOTING DATA TABLE

STRUCTURAL STEEL POST AND FOOTING DATA TABLE

D-29

SIGN NO.	
STATION	
ROADWAY	

SIGN NO.	
STATION	
ROADWAY	

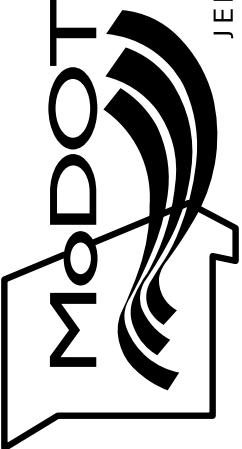
SIGN NO.	
STATION	
ROADWAY	

SIGN NO.	
STATION	
ROADWAY	

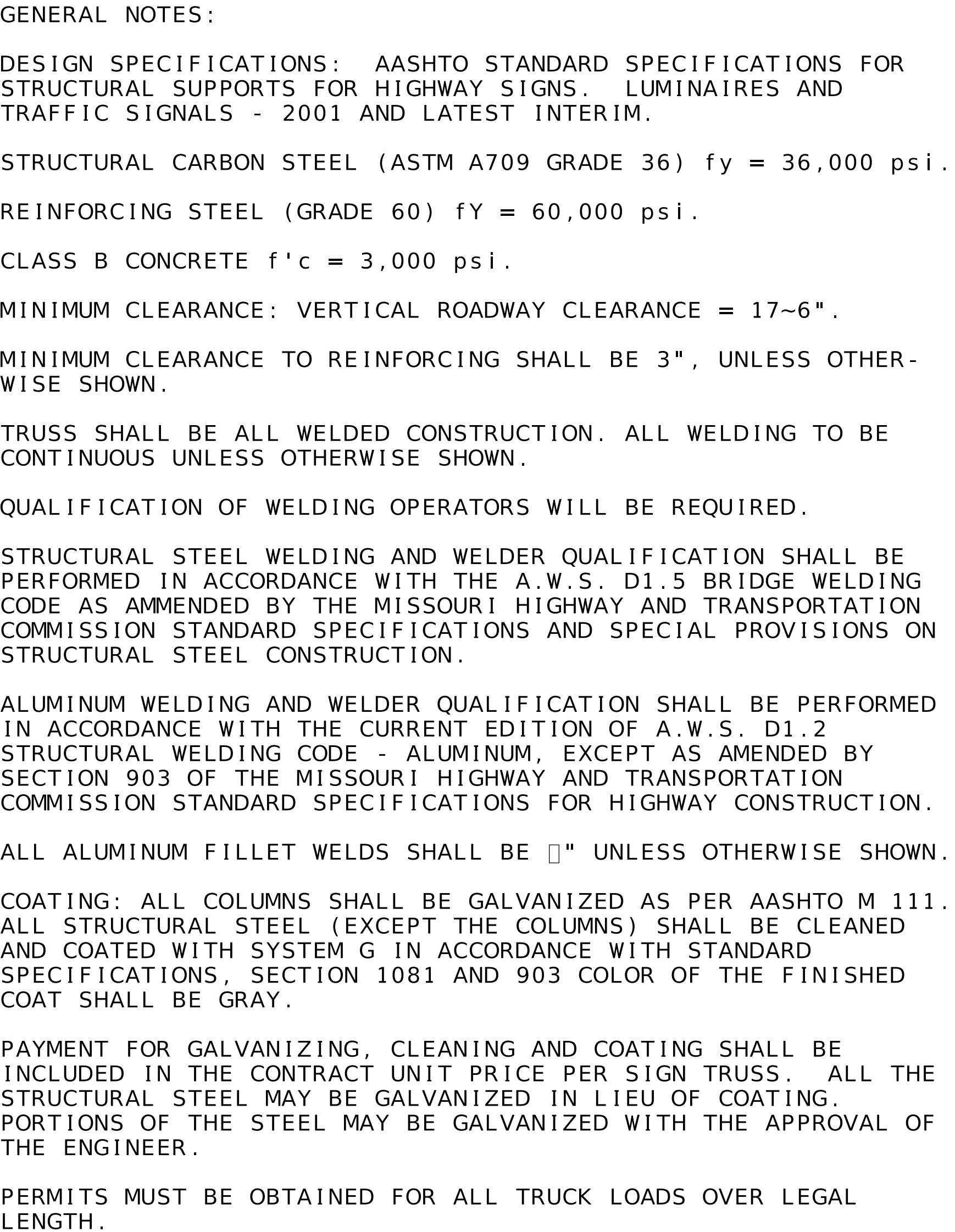
DATE PREPARED 2/5/2024	
ROUTE	STATE MO
DISTRICT	SHEET NO. X
COUNTY	
JOB NO.	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

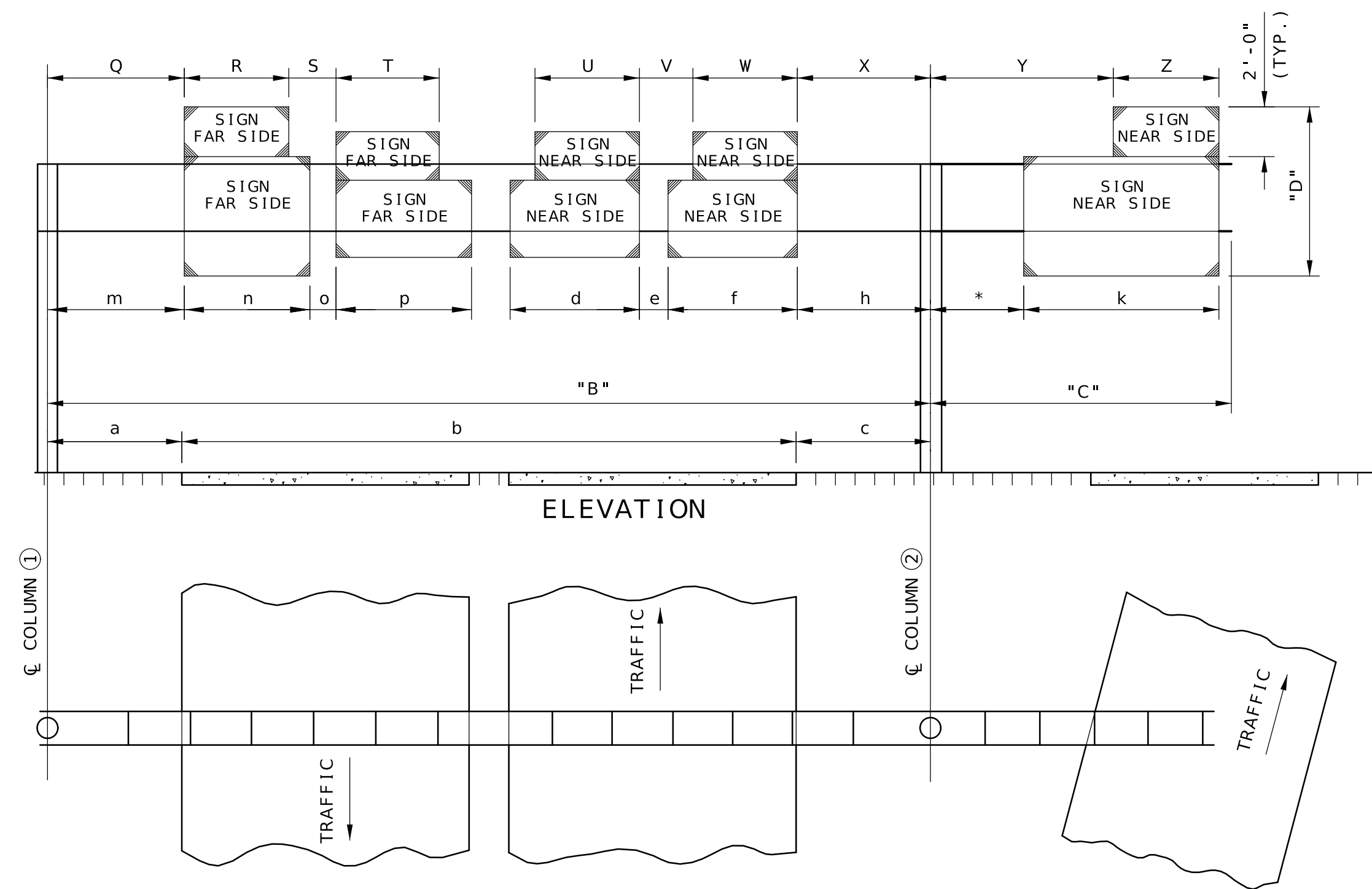
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



BUTTERFLY AND CANTILEVER OVERHEAD SIGN TRUSSES STRUCTURAL STEEL



PLAN
DIMENSIONS
TYPE 'BC' SIGN BRIDGE

* MINIMUM = 6'-0" WHEN ALUMINUM IS USED.

[illegible]

DATA SHEET
(SEE STANDARD 903.10 OR 903.60)

DESIGN SPECIFICATIONS: AASHTO STANDARD SPECIFICATIONS FOR
STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND
TRAFFIC SIGNALS - 1985 AND LATEST INTERIM.

BASIC ASSUMPTIONS: WIND VELOCITY = 70 mph, WIND PRESSURE ON SIGN AREA = 27 psf, ICE LOAD = 3 psf.

STRUCTURAL ALUMINUM STRESS = 10,000 psi.

STRUCTURAL CARBON STEEL (ASTM A709 GRADE 36) $f_s = 20,000$ psi.

REINFORCING STEEL (GRADE 40) $f_s = 20,000$ psi.

CLASS B CONCRETE $f_c = 1,200$ psi.

ALLOWABLE SOIL PRESSURE = 2,750 psf.

ALLOWABLE UNIT STRESSES DUE TO WIND LOAD OR WIND LOAD IN COMBINATION WITH OTHER FORCES ARE INCREASED 40%.

MINIMUM CLEARANCE: VERTICAL ROADWAY CLEARANCE = 17'-6".

MINIMUM CLEARANCE TO REINFORCING SHALL BE 2", UNLESS OTHERWISE SHOWN.

TRUSS SHALL BE ALL WELDED CONSTRUCTION. ALL WELDING TO BE CONTINUOUS UNLESS OTHERWISE SHOWN.

QUALIFICATION OF WELDING OPERATORS WILL BE REQUIRED.

STRUCTURAL STEEL WELDING AND WELDER QUALIFICATION SHALL BE PERFORMED IN ACCORDANCE WITH THE A.W.S. D1.2 BRIDGE WELDING CODE AS AMENDED BY THE MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS ON STRUCTURAL STEEL CONSTRUCTION.

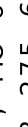
ALUMINUM WELDING AND WELDER QUALIFICATION SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITION OF A.W.S. D1.2 STRUCTURAL WELDING CODE - ALUMINUM, EXCEPT AS AMENDED BY SECTION 903 OF THE MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

ALL ALUMINUM FILLET WELDS SHALL BE $\frac{3}{16}$ " UNLESS OTHERWISE SHOWN.

COATING: ALL COLUMNS SHALL BE GALVANIZED AS PER AASHTO M 111. ALL STRUCTURAL STEEL (EXCEPT THE COLUMNS) SHALL BE CLEANED AND COATED WITH SYSTEM G IN ACCORDANCE WITH STANDARD SPECIFICATIONS, SECTIONS 712.12 AND 903.3.4. COLOR OF THE FINISHED COAT SHALL BE GRAY.

PAYMENT FOR GALVANIZING, CLEANING AND COATING SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER SIGN TRUSS. ALL THE STRUCTURAL STEEL MAY BE GALVANIZED IN LIEU OF COATING PORTIONS OF THE STEEL MAY BE GALVANIZED WITH THE APPROVAL OF THE ENGINEER.

PERMITS MUST BE OBTAINED FOR ALL TRUCK LOADS OVER LEGAL LENGTH.


MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION
 105 WEST CAPITOL
 JEFFERSON CITY, MO 65102
 1-888-ASK-MODOT (1-888-275-6636)

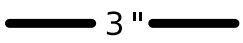



5. DESIGN SPECIFICATIONS: AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS - 1985.

[illegible]

WIRING DIAGRAM


LEGEND


- 


3" CONDUIT CONTAINING CABLE WITH SIZE
- 


CABLE
- X-Xc


MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
- L I C


#14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
- 

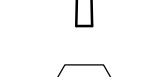
PULL BOX WITH NUMBER
- 


POST WITH NUMBER
- 


POST WITH MAST ARM
- 


POST WITH MAST ARM AND LUMINAIRE
- 

POST WITH MAST ARM AND LUMINAIRE
- 

DETECTOR WITH NUMBER
- 

SIGNAL HEAD WITH NUMBER
- 

SIGNAL CONTROLLER
- 

POWER SUPPLY
- 

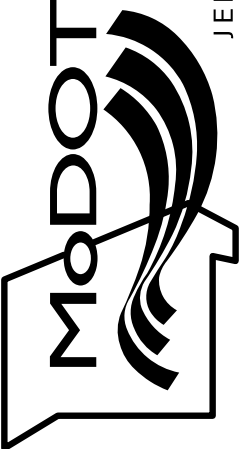
LIGHTING CONTROLLER

DATE PREPARED 2/5/2024	
ROUTE	STATE MO
DISTRICT	SHEET NO. X
COUNTY	

JOB NO.
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



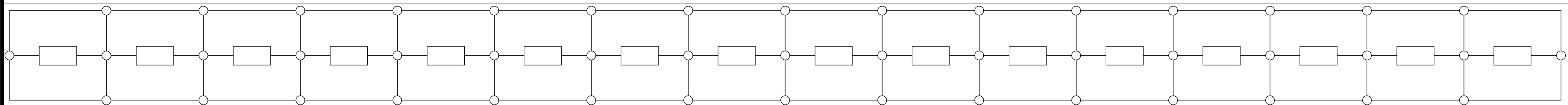
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGNAL FACE LOCATION			
22	30	81	82
21			
50			10
			61
42	41	70	62

TRAFFIC PHASING AND COLOR SEQUENCE - PRETIMED CONTROLLERS

[illegible]

FLOW DIAGRAM



- ▶ PHASE ON RECALL WITH EQUAL TIME SETTINGS.
- ▷ SKIP PHASE.
- ◀▶ COMBINED RECALL & SKIP PHASE.

IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

- ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- ▷ NON-ACTUATED VEHICULAR MOVEMENT
- ▷ PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- ▷ NON-ACTUATED PEDESTRIAN MOVEMENT
- | VEHICLE STOPPED

FDW—FLASHING DON'T WALK

R / W— RIGHT OF WAY INTERVAL

DW—DON'T WALK

YRt—YELLOW RIGHT ARROW

RT. — GREEN RIGHT ARROW

W—WALK

Y - YL - YELLOW LEFT ARROW

L — GREEN LEFT ARROW

S— GREEN STRAIGHT AHEAD ARROW

G— CIRCULAR GREEN

Y—CIRCULAR YELLOW

R—CIRCULAR RED

Ø— TRAFFIC PHASE

AO— ALL OTHERS

FR—FLASHING RED

FY—FLASHING CIRC



FYL—FLASHING YELLOW LEFT ARROW

FYR—FLASHING YELLOW RIGHT ARROW

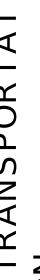
FLASHING OPERATION	
	FR
	FY
CONTROLLER TYPE	

TRAFFIC SIGNAL CONTROL OPERATION
INTERSECTION OF
WITH

D - 38[illegible]

SIGNAL FACE LOCATION	
	

FACE NUMBERS	
R	SIGNAL INDICATIONS
Y	
FYL	
G	
DETECTOR ASSIGNMENTS	

[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LEGEND

—▶—	ACTUATED VEHICULAR MOVEMENT
—▶—	PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
—▷—	NON-ACTUATED VEHICULAR MOVEMENT
—▷—	PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
—▶—	ACTUATED PEDESTRIAN MOVEMENT
—▷—	NON-ACTUATED PEDESTRIAN MOVEMENT
— —	VEHICLE STOPPED
FDW	FLASHING DON'T WALK
W	WALK
DW	DON'T WALK
R/W	RIGHT OF WAY INTERVAL
YRt	YELLOW RIGHT ARROW
RT.	GREEN RIGHT ARROW
LY -YL	YELLOW LEFT ARROW
L	GREEN LEFT ARROW
S	GREEN STRAIGHT AHEAD ARROW
G	CIRCULAR GREEN
Y	CIRCULAR YELLOW
R	CIRCULAR RED
RL	RED LEFT ARROW
Ø	TRAFFIC PHASE
AO	ALL OTHERS
FR	FLASHING RED
FY	FLASHING CIRCULAR YELLOW
FYL	FLASHING YELLOW LEFT ARROW

TRAFFIC SIGNAL CONTROL OPERATION
INTERSECTION OF
WITH

FACE NUMBERS	
R	SIGNAL INDICATIONS
Y	
FYL	
G	
DETECTOR ASSIGNMENTS	

RING STRUCTURE

LEGEND

	ACTUATED VEHICULAR MOVEMENT
	PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
	NON-ACTUATED VEHICULAR MOVEMENT
	PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
	ACTUATED PEDESTRIAN MOVEMENT
	NON-ACTUATED PEDESTRIAN MOVEMENT
	VEHICLE STOPPED
FDW	FLASHING DON'T WALK
W	WALK
DW	DON'T WALK
R/W	RIGHT OF WAY INTERVAL
YRt	YELLOW RIGHT ARROW
RT.	GREEN RIGHT ARROW
LY -YL	YELLOW LEFT ARROW
L	GREEN LEFT ARROW
S	GREEN STRAIGHT AHEAD ARROW
G	CIRCULAR GREEN
Y	CIRCULAR YELLOW
R	CIRCULAR RED
RL	RED LEFT ARROW
Ø	TRAFFIC PHASE
AO	ALL OTHERS
FR	FLASHING RED
FY	FLASHING CIRCULAR YELLOW
FYL	FLASHING YELLOW LEFT ARROW

D - 38D

FACE NUMBERS	
R	SIGNAL INDICATIONS
Y	
FYL	
G	
DETECTOR ASSIGNMENTS	

DETECTOR ASSIGNMENTS (PEDS. ONLY)
OVERLAP PARENT PHASES

RING 2

RING STRUCTURE

TRAFFIC SIGNAL CONTROL OPERATION
INTERSECTION OF
WITH

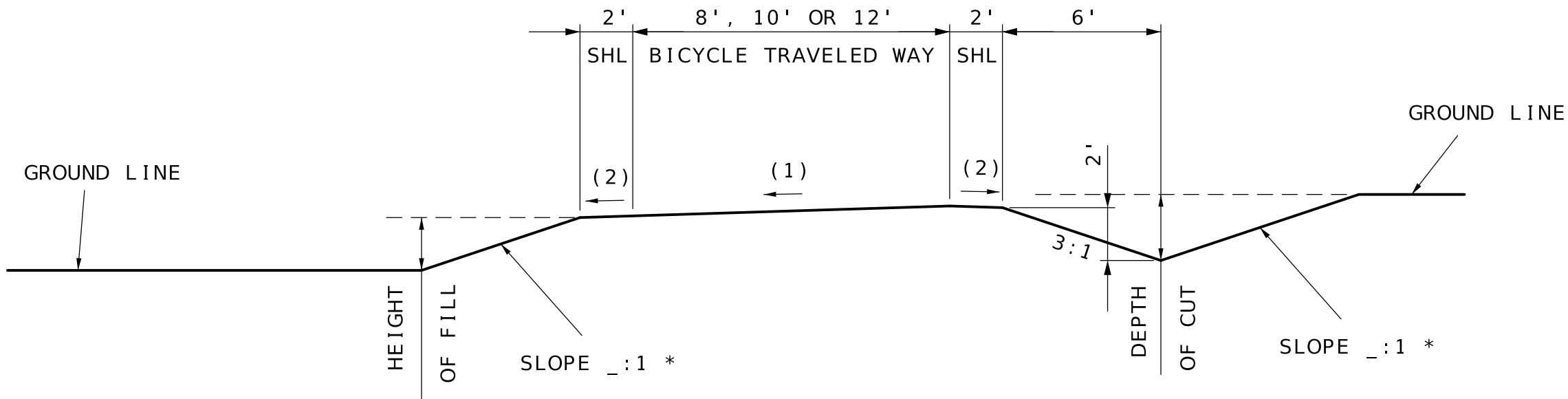
LEGEND

	—▶—	ACTUATED VEHICULAR MOVEMENT
	—▶ —	PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
	—▷—	NON-ACTUATED VEHICULAR MOVEMENT
	—▷ —	PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
	—▶	ACTUATED PEDESTRIAN MOVEMENT
	—▷	NON-ACTUATED PEDESTRIAN MOVEMENT
	—+—	VEHICLE STOPPED
FDW		FLASHING DON'T WALK
W		WALK
DW		DON'T WALK
R / W		RIGHT OF WAY INTERVAL
YR t		YELLOW RIGHT ARROW
RT.		GREEN RIGHT ARROW
LY - YL		YELLOW LEFT ARROW
L		GREEN LEFT ARROW
S		GREEN STRAIGHT AHEAD ARROW
G		CIRCULAR GREEN
Y		CIRCULAR YELLOW
R		CIRCULAR RED
RL		RED LEFT ARROW
Ø		TRAFFIC PHASE
AO		ALL OTHERS
FR		FLASHING RED
FY		FLASHING CIRCULAR YELLOW
FYL		FLASHING YELLOW LEFT ARROW

[illegible]

CROSS SLOPE

- (1) 2.0%
- (2) 4.0%



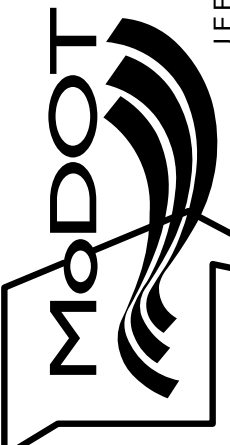
SECTION ON TANGENT
TYPICAL SECTION BICYCLE PATH
STA. XXX.XX TO STA. XXX.XX

* BACKSLOPE DETERMINED BY SOIL SURVEY.

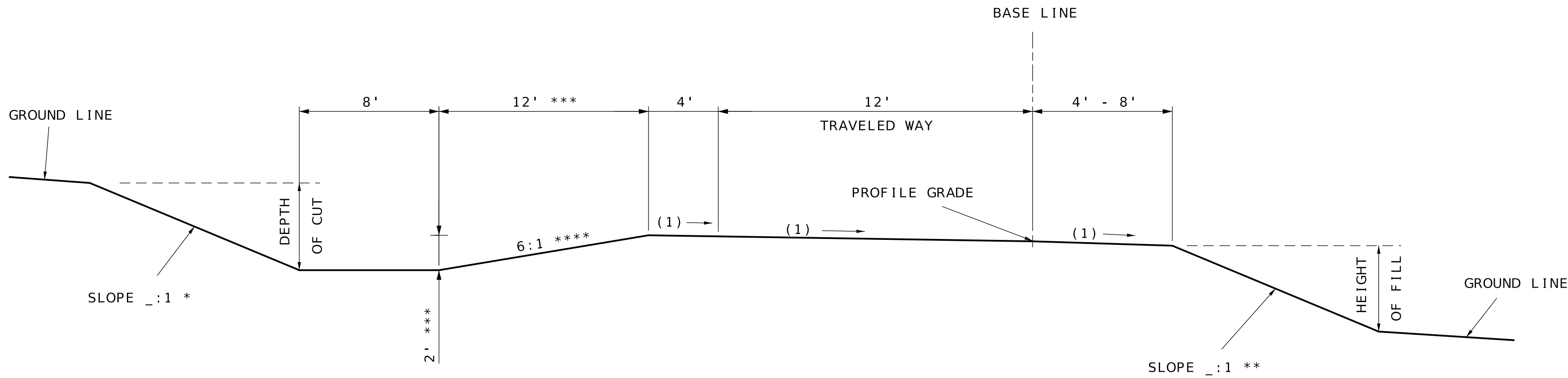
D-49	
FUNCTION	BICYCLE PATH
BICYCLE ADT	ALL
TRAVELED WAY WIDTH	8, 10 OR 12'
ROADBED WIDTH	12, 14 OR 16'
FORESLOPE	3:1
DITCH	2'

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



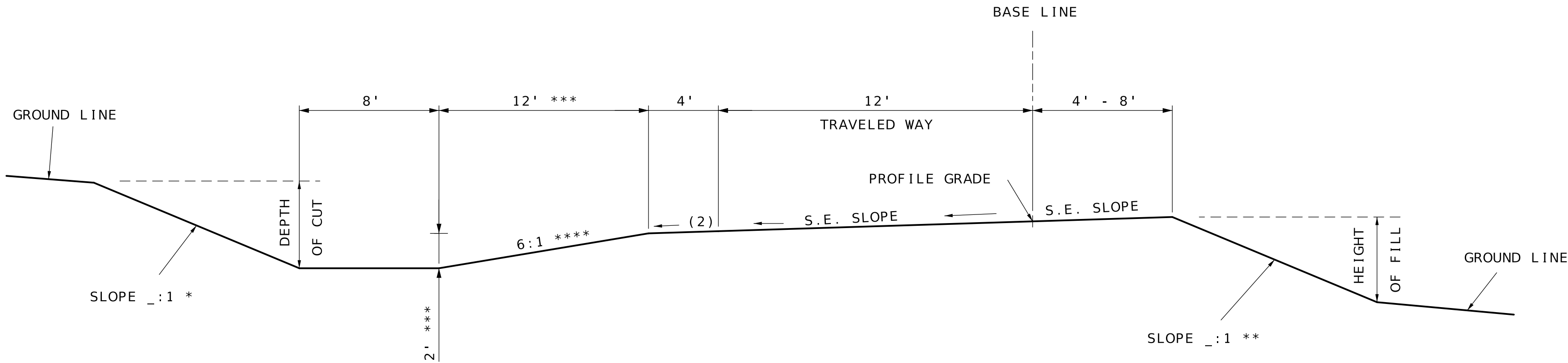
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



SECTION ON TANGENT
TYPICAL SECTION RTE. XX
STA. XXX.XX TO STA. XXX.XX

CROSS SLOPE

- (1) 2.0%
(2) S.E. SLOPE IF GREATER THAN 2.0%.



SECTION ON SUPERELEVATED CURVE
TYPICAL SECTION RTE. XX
STA. XXX.XX TO STA. XXX.XX

- * BACKSLOPE DETERMINED BY SOIL SURVEY.
** THE FILL SLOPE SHALL BE 6:1 OR FLATTER WHEN THE FILL HEIGHT IS EQUAL TO OR LESS THAN 2 FEET (I.E., THE OFFSET FROM THE TOE OF FILL TO THE SHOULDER POINT IS A MINIMUM OF 12 FEET). THE SLOPE MAY VARY TO MEET THIS REQUIREMENT. FOR FILL HEIGHTS GREATER THAN 2 FEET, THE SLOPE SHALL NOT EXCEED THE MAXIMUM SLOPE DETERMINED BY THE SOIL SURVEY.
*** 4' DITCH DEPTH PREFERRED IF ALTERNATE 18" ROCK BASE IS USED. SIDESLOPE WIDTH SHALL BE 24' FOR 4' DITCH DEPTH.
**** WHEN CROSS ROAD GOES OVER MAIN ROADWAY, A VARIABLE SLOPE SHALL BE USED FROM RAMP SHOULDER TO MAIN ROADWAY DITCH POINT.

D-50H	
FUNCTION	DIAMOND/DIRECTIONAL RAMP
ADT	LOW
TRAVELED WAY WIDTH	12'
ROADBED WIDTH	20' - 24'
FORESLOPE	6:1
DITCH	2'

DATE PREPARED
2/5/2024

ROUTE

STATE

DISTRICT

SHEET NO.

MO

X

COUNTY

JOB NO.

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

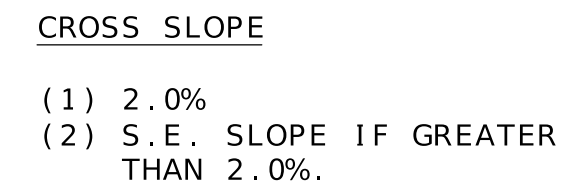
DESCRIPTION

DATE

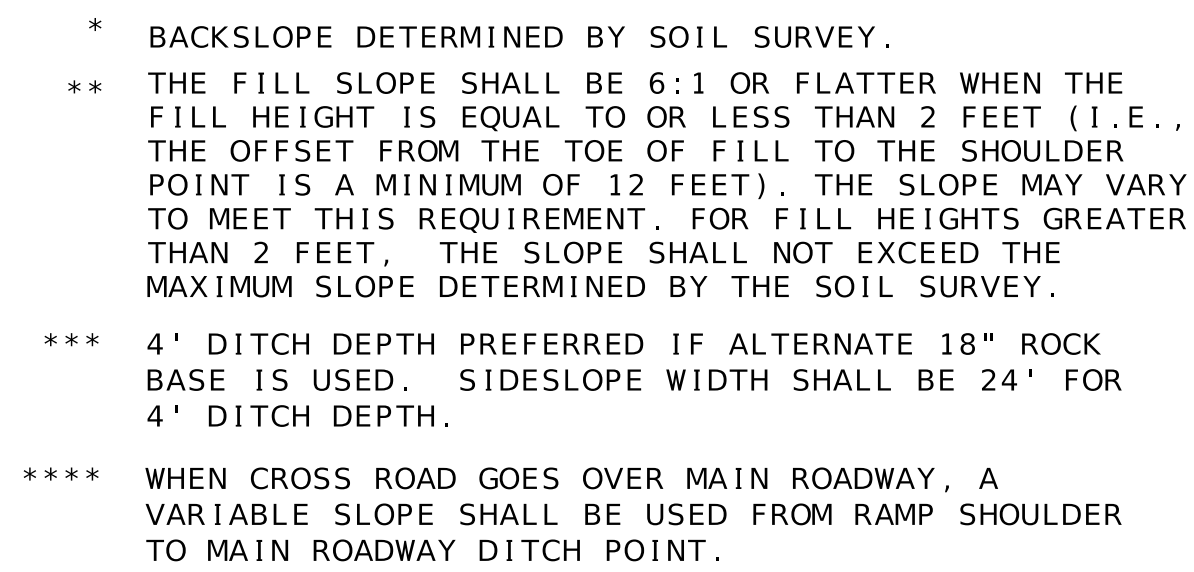
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MoDOT

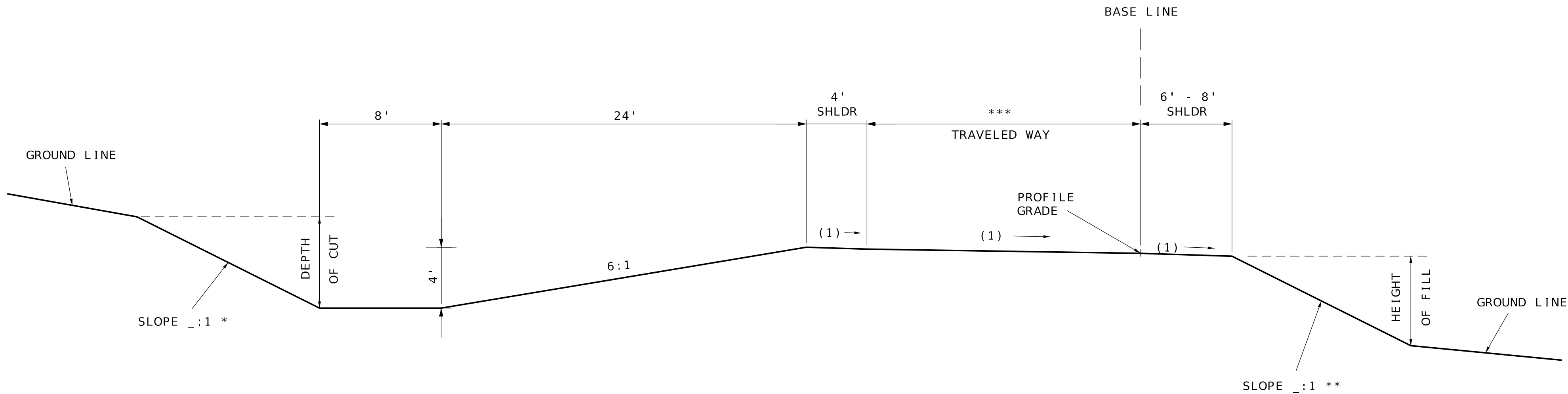


--



SECTION ON SUPERELEVATED CURVE
TYPICAL SECTION RTE. XX
STA. XXX.XX TO STA. XXX.XX

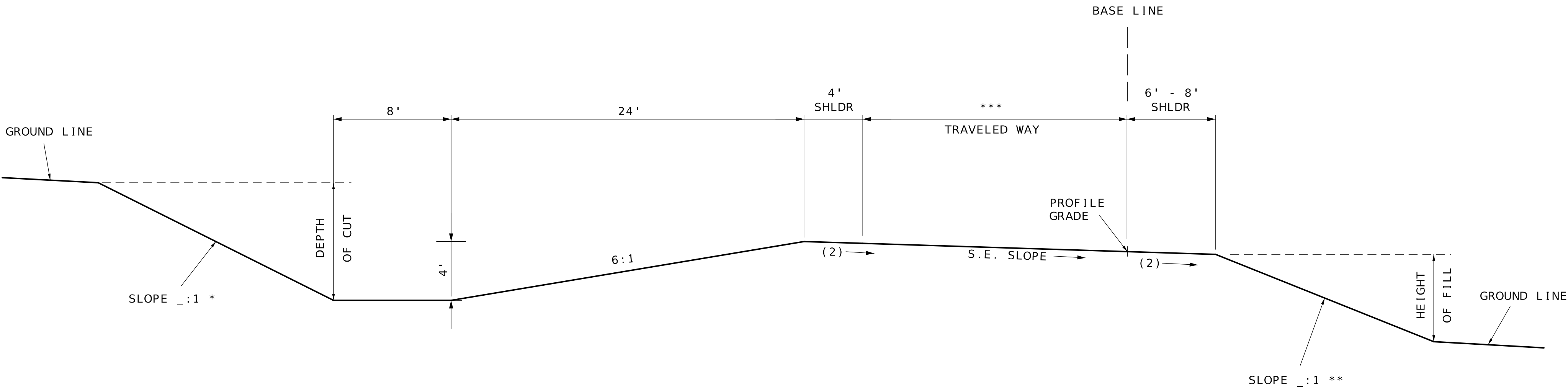
D-50H	
FUNCTION	DIAMOND/DIRECTIONAL RAMP
ADT	ALL
TRAVELED WAY WIDTH	14'
ROADBED WIDTH	22' - 26'
FORESLOPE	6:1
DITCH	2'



SECTION ON TANGENT
TYPICAL SECTION RTE. XX
STA. XXX.XX TO STA. XXX.XX

CROSS SLOPE

- (1) 2.0%
- (2) S.E. SLOPE IF GREATER THAN 2.0%.



SECTION ON SUPERELEVATED CURVE
TYPICAL SECTION RTE. XX
STA. XXX.XX TO STA. XXX.XX

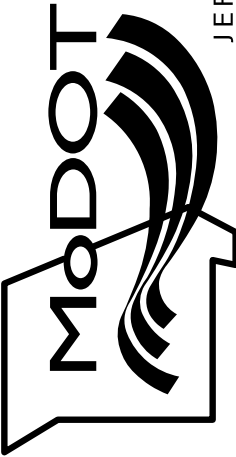
- * BACKSLOPE DETERMINED BY SOIL SURVEY.
- ** THE FILL SLOPE SHALL BE 6:1 OR FLATTER WHEN THE FILL HEIGHT IS EQUAL TO OR LESS THAN 4 FEET (i.e., THE OFFSET FROM THE TOE OF FILL TO THE SHOULDER POINT IS A MINIMUM OF 24 FEET). THE SLOPE MAY VARY TO MEET THIS REQUIREMENT. FOR FILL HEIGHTS GREATER THAN 4 FEET, THE SLOPE SHALL NOT EXCEED THE MAXIMUM SLOPE DETERMINED BY THE SOIL SURVEY.
- *** 18' WHEN RADIUS ≥ 400'.
22' WHEN RADIUS < 400'.

D-51L	
FUNCTION	LOOP RAMP
ADT	ALL
TRAVELED WAY WIDTH	USE AUTOTURN
ROADBED WIDTH	USE AUTOTURN
FORESLOPE	6:1
DITCH	4'

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

(1) 2.0%
(2) S.E. SLOPE IF GREATER
THAN 2.0%.

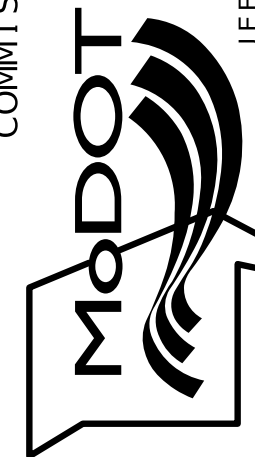


* BACKSLOPE DETERMINED BY SOIL SURVEY.

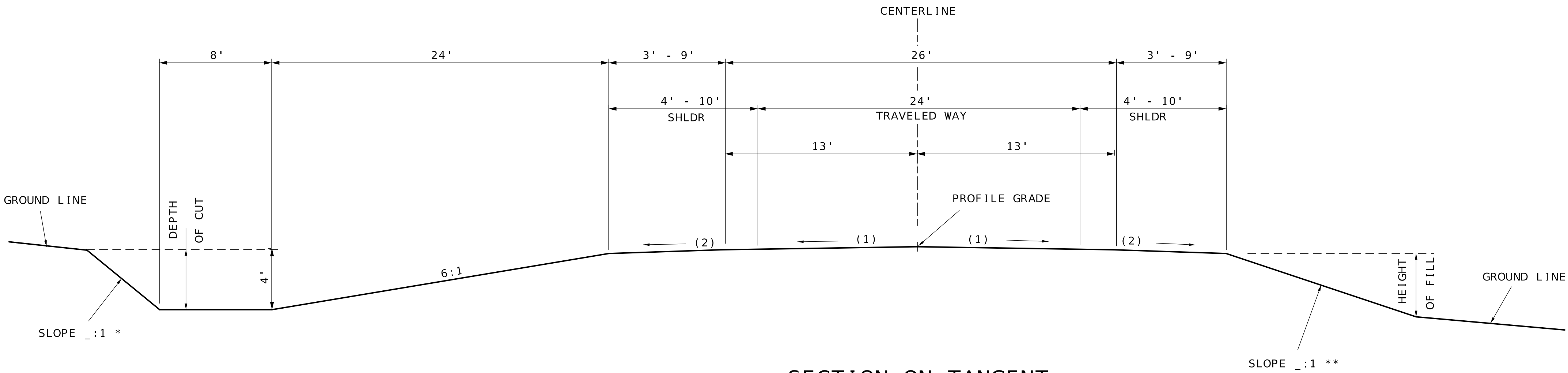
** THE FILL SLOPE SHALL BE 6:1 OR FLATTER WHEN THE FILL HEIGHT IS EQUAL TO OR LESS THAN 4 FEET (i.e. THE OFFSET FROM THE TOE OF FILL TO THE SHOULDER POINT IS A MINIMUM OF 24 FEET). THE SLOPE MAY VARY TO MEET THIS REQUIREMENT. FOR FILL HEIGHTS GREATER THAN 4 FEET, THE SLOPE SHALL NOT EXCEED THE MAXIMUM SLOPE DETERMINED BY THE SOIL SURVEY.

*** WHEN CROSS ROAD GOES OVER MAIN ROADWAY, A VARIABLE SLOPE SHALL BE USED FROM RAMP SHOULDER TO MAIN ROADWAY DITCH POINT.

	D-53G
FUNCTION	MULTI-LANE RAMP
ADT	ALL
TRAVELED WAY WIDTH	24'
ROADBED WIDTH	32' - 38'
FORESLOPE	6:1
DITCH	4'

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

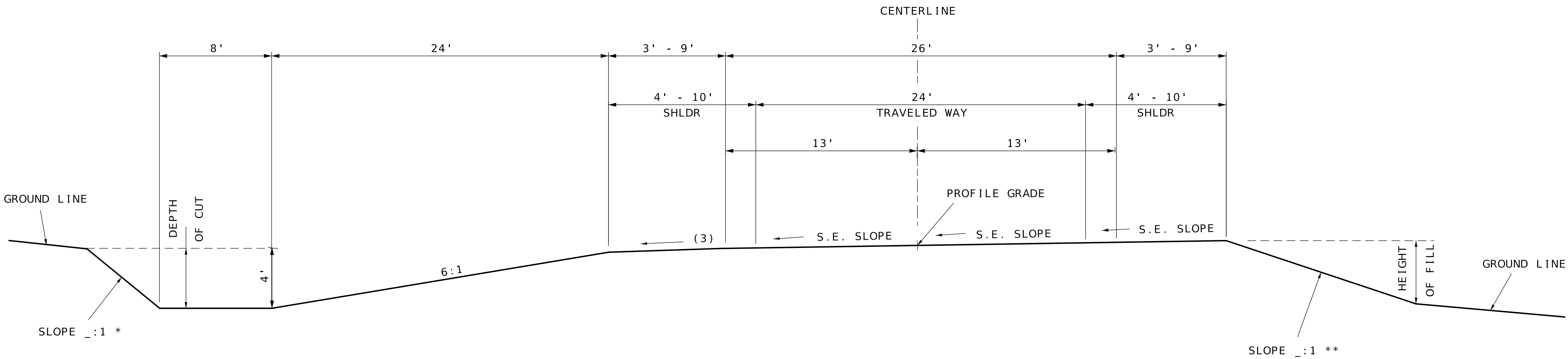
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



SECTION ON TANGENT
TYPICAL SECTION RTE. XX
STA. XXX.XX TO STA. XXX.XX

CROSS SLOPE

- (1) 2.0%
(2) 2.0% FOR PAVED SHOULDERS
4.0% FOR AGGREGATE SHOULDERS
(3) S.E. SLOPE IF GREATER THAN
4.0% FOR AGGREGATE SHOULDERS
S.E. SLOPE FOR PAVED SHOULDERS



SECTION ON SUPERELEVATED CURVE
TYPICAL SECTION RTE. XX
STA. XXX.XX TO STA. XXX.XX

SEE STANDARDS 203.20, 606.00 AND 609.40
FOR SHOULDER WIDENING.

SHOULDER WIDTH IS 4' TO 10' BASED UPON TRAFFIC VOLUME,
PERCENT TRUCKS AND THE CONTEXT SURROUNDING THE ROAD.

* BACKSLOPE DETERMINED BY SOIL SURVEY.

** THE FILL SLOPE SHALL BE 6:1 OR FLATTER WHEN THE
FILL HEIGHT IS EQUAL TO OR LESS THAN 4 FEET (I.E.,
THE OFFSET FROM THE TOE OF FILL TO THE SHOULDER
POINT IS A MINIMUM OF 24 FEET). THE SLOPE MAY VARY
TO MEET THIS REQUIREMENT. FOR FILL HEIGHTS GREATER
THAN 4 FEET, THE SLOPE SHALL NOT EXCEED THE
MAXIMUM SLOPE DETERMINED BY THE SOIL SURVEY.

D-60E	
FUNCTION	RURAL MAJOR ROUTE- 2-LANE
ADT	NA
TRAVELED WAY WIDTH	24'
ROADBED WIDTH	32 - 44'
FORESLOPE	6:1
DITCH	4'

DATE PREPARED
2/5/2024

ROUTE

STATE

DISTRICT

SHEET NO.

MO

X

COUNTY

JOB NO.

CONTRACT ID.

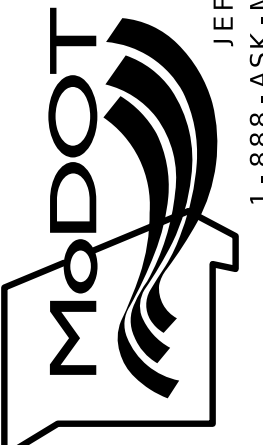
PROJECT NO.

BRIDGE NO.

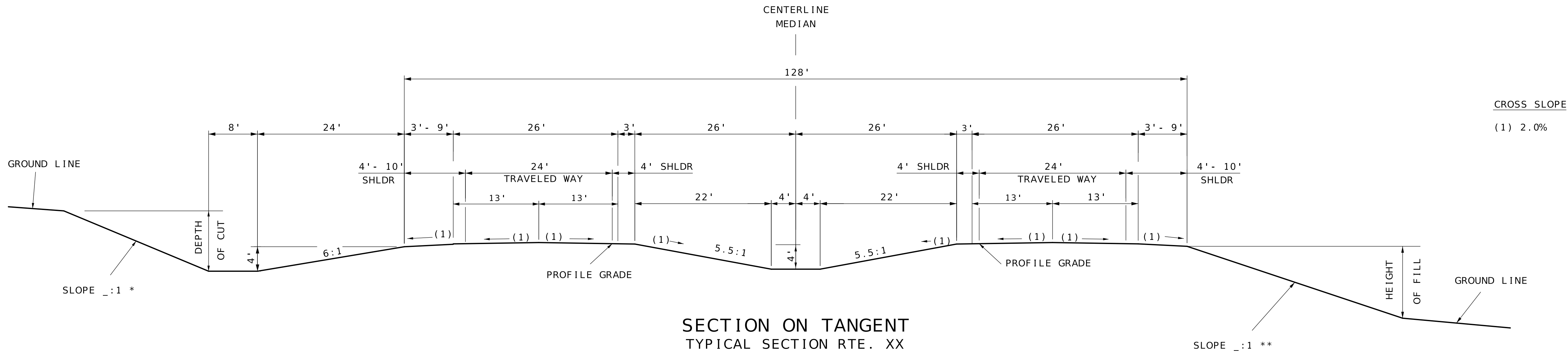
DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

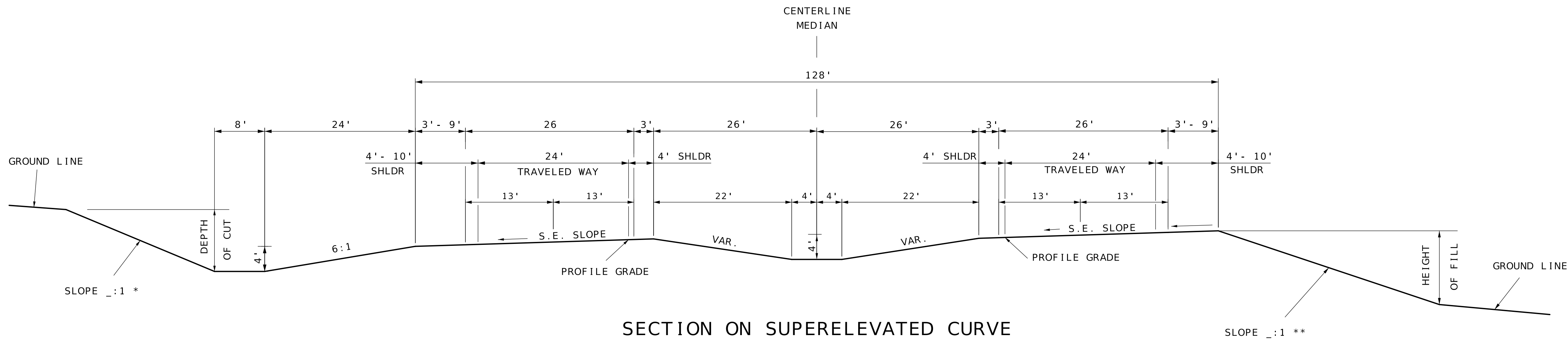


105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



SECTION ON TANGENT
TYPICAL SECTION RTE. XX
STA. XXX.XX TO STA. XXX.XX

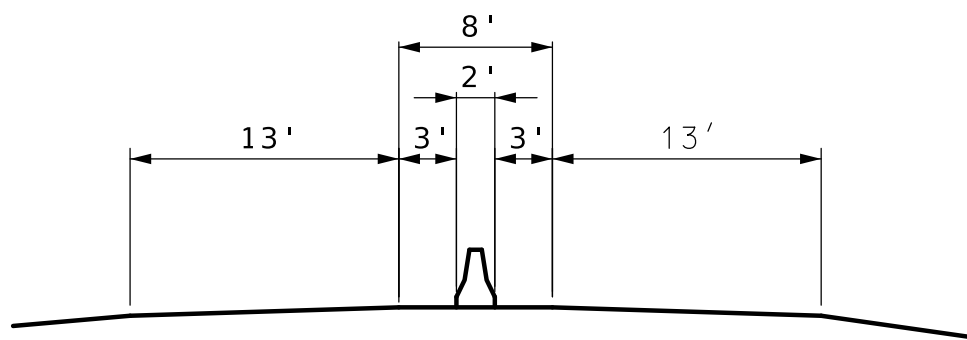
SEE STANDARDS 203.21, 606.00 AND 609.40 FOR
SHOULDER WIDENING.



SECTION ON SUPERELEVATED CURVE
TYPICAL SECTION RTE. XX
STA. XXX.XX TO STA. XXX.XX

* BACKSLOPE DETERMINED BY SOIL SURVEY.

** THE FILL SLOPE SHALL BE 6:1 OR FLATTER WHEN THE
FILL HEIGHT IS EQUAL TO OR LESS THAN 4 FEET (I.E.,
THE OFFSET FROM THE TOE OF FILL TO THE SHOULDER
POINT IS A MINIMUM OF 24 FEET). THE SLOPE MAY VARY
TO MEET THIS REQUIREMENT. FOR FILL HEIGHTS GREATER
THAN 4 FEET, THE SLOPE SHALL NOT EXCEED THE
MAXIMUM SLOPE DETERMINED BY THE SOIL SURVEY.



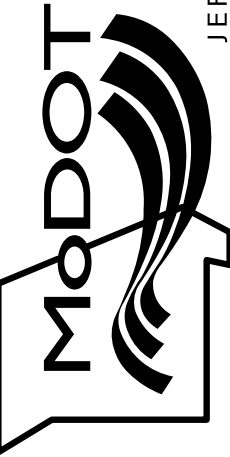
ALTERNATE MEDIAN

D-61F	
FUNCTION	NON-INTERSTATE RURAL MAJOR ROUTE 4-LANE
ADT	> 1700
TRAVELED WAY WIDTH	24'
ROADBED WIDTH	68' - 128'
FORESLOPE	6:1
DITCH	4'

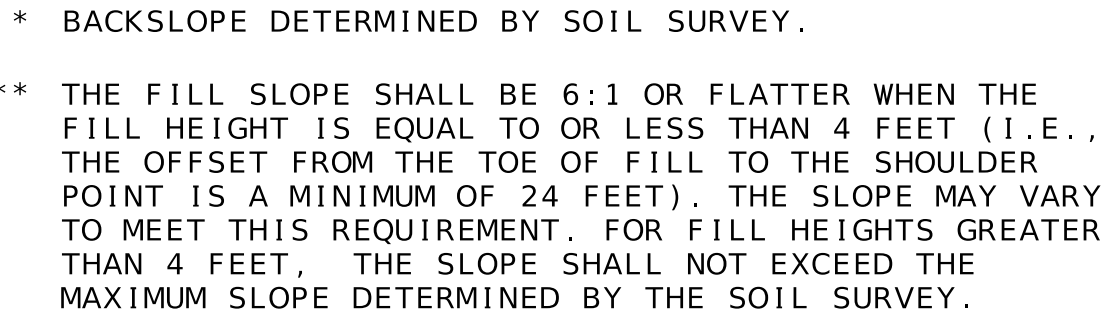
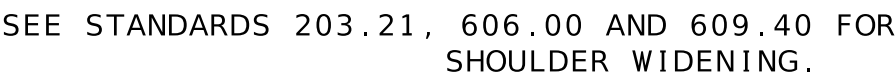
DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



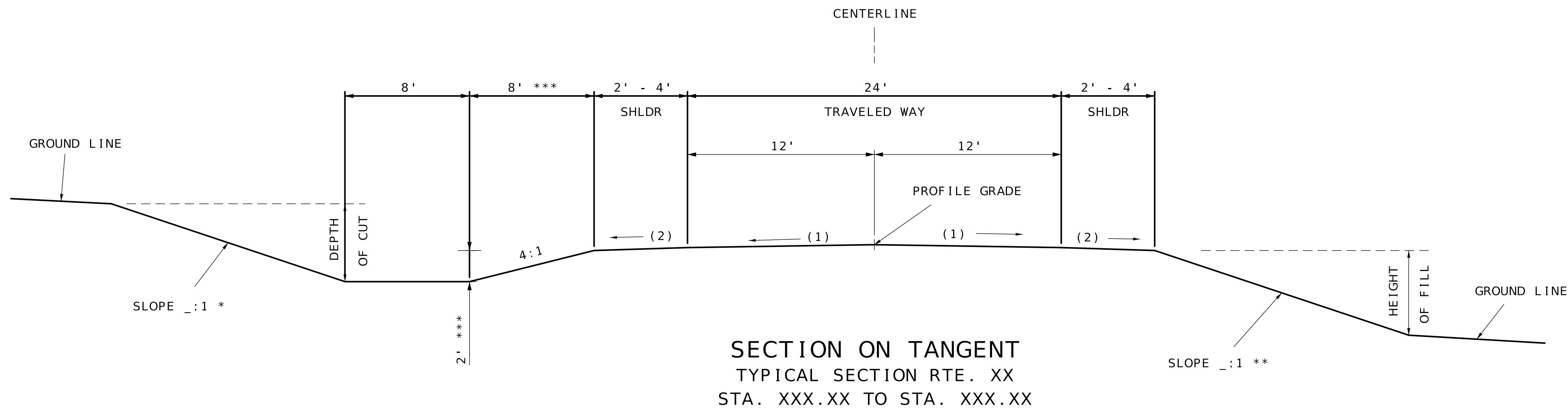
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



D-61F	
FUNCTION	INTERSTATE
ADT	> 1700
TRAVELED WAY WIDTH	24'
ROADBED WIDTH	128'
FORESLOPE	6:1
DITCH	4'

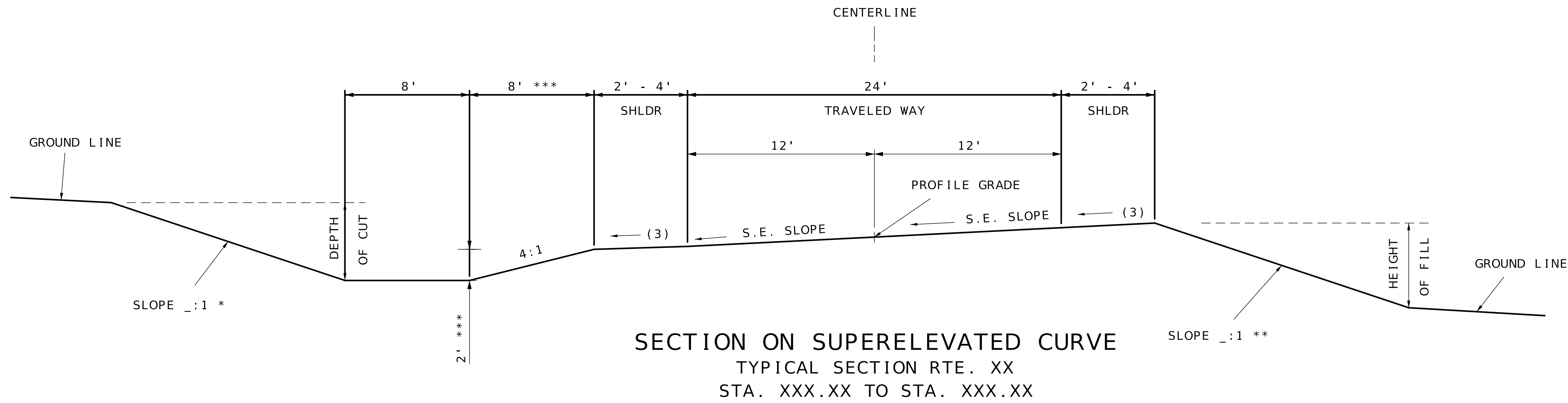
DATE PREPARED	
2/5/2024	
ROUTE	STATE
	MO
DISTRICT	SHEET NO.
	X
COUNTY	

[illegible]



CROSS SLOPE
(1) 2.0%
(2) 4.0%
(3) S.E. SLOPE IF GREATER THAN 4.0%.

SEE STANDARDS 203.20, 606.00 AND 609.40 FOR SHOULDER WIDENING.



SHOULDER WIDTH IS 2' - 4' BASED UPON TRFFIC VOLUME, PERCENT TRUCKS AND THE CONTEXT OF THE SURROUNDING ROAD.

+ SPOT IMPROVEMENTS SHOULD MATCH EXISTING TEMPLATE.

* BACKSLOPE DETERMINED BY SOIL SURVEY.

** THE FILL SLOPE SHALL BE 4:1 OR FLATTER WHEN THE FILL HEIGHT IS EQUAL TO OR LESS THAN 2 FEET (I.E., THE OFFSET FROM THE TOE OF FILL TO THE SHOULDER POINT IS A MINIMUM OF 8 FEET). THE SLOPE MAY VARY TO MEET THIS REQUIREMENT. FOR FILL HEIGHTS GREATER THAN 2 FEET, THE SLOPE SHALL NOT EXCEED THE MAXIMUM SLOPE DETERMINED BY THE SOIL SURVEY.

*** 4' DITCH DEPTH PREFERRED IF ALTERNATE 18" ROCK BASE IS USED. SIDESLOPE WIDTH SHALL BE 16' FOR 4' DITCH DEPTH.

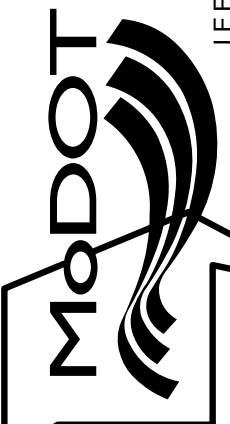
D-64F	
FUNCTION	MINOR RURAL ROADWAY
ADT	N/A
TRAVELED WAY WIDTH	24' +
ROADBED WIDTH	28' - 32' +
FORESLOPE	4:1
DITCH	2'

DATE PREPARED 2/5/2024	
ROUTE	STATE MO
DISTRICT	SHEET NO. X

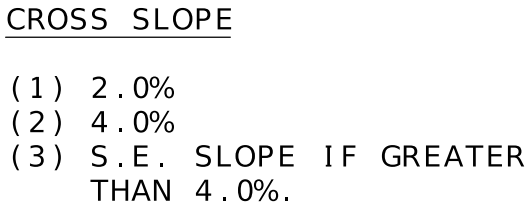
COUNTY
JOB NO.
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

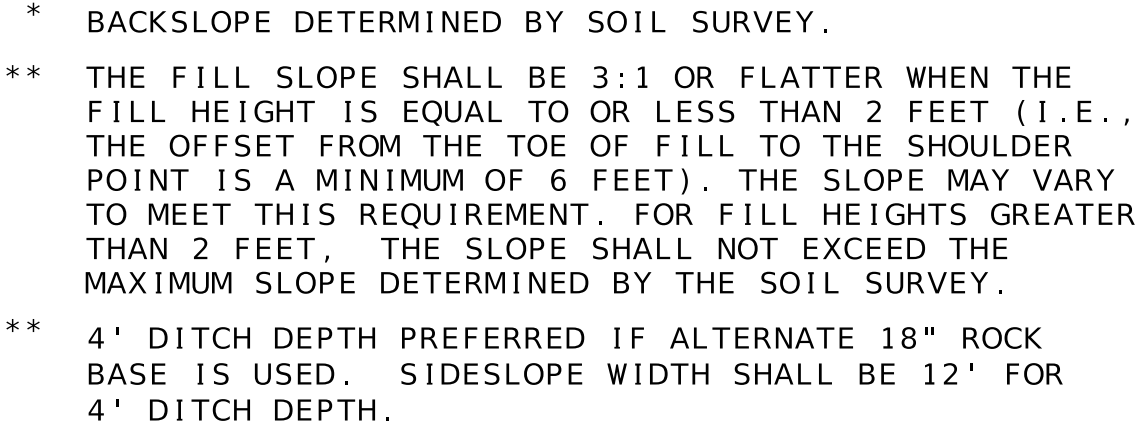


105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



SECTION ON TANGENT
TYPICAL SECTION RTE. XX
STA. XXX.XX TO STA. XXX.XX

SEE STANDARDS 203.20, 606.00 AND 609.40 FOR
SHOULDER WIDENING.

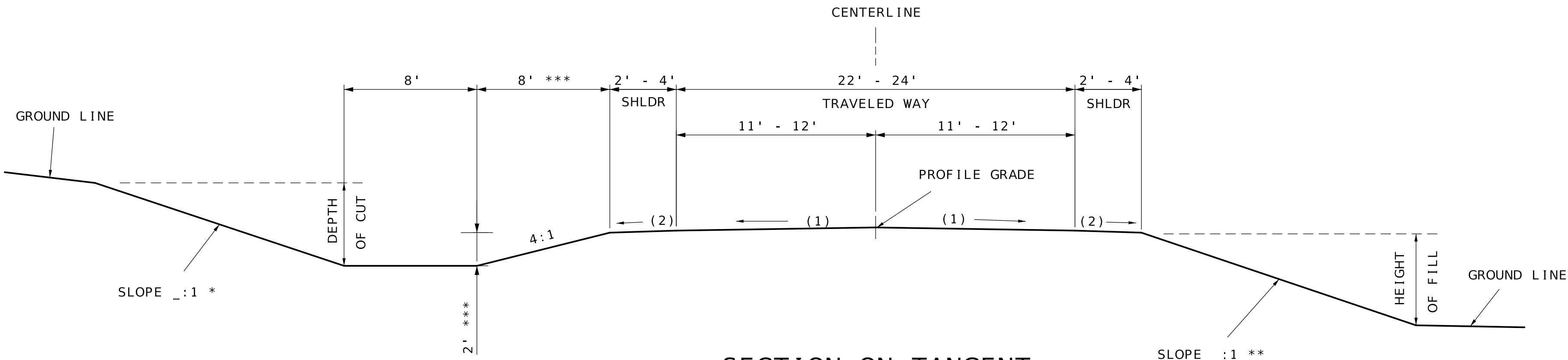


D-66F	
FUNCTION	LOW VOLUME LOCAL ROADWAYS
ADT	< 400
TRAVELED WAY WIDTH	20' - 22'
ROADBED WIDTH	24' - 26'
FORESLOPE	3:1
DITCH	2'

DATE PREPARED	
2/5/2024	
ROUTE	STATE
	MO
DISTRICT	SHEET NO.
	X

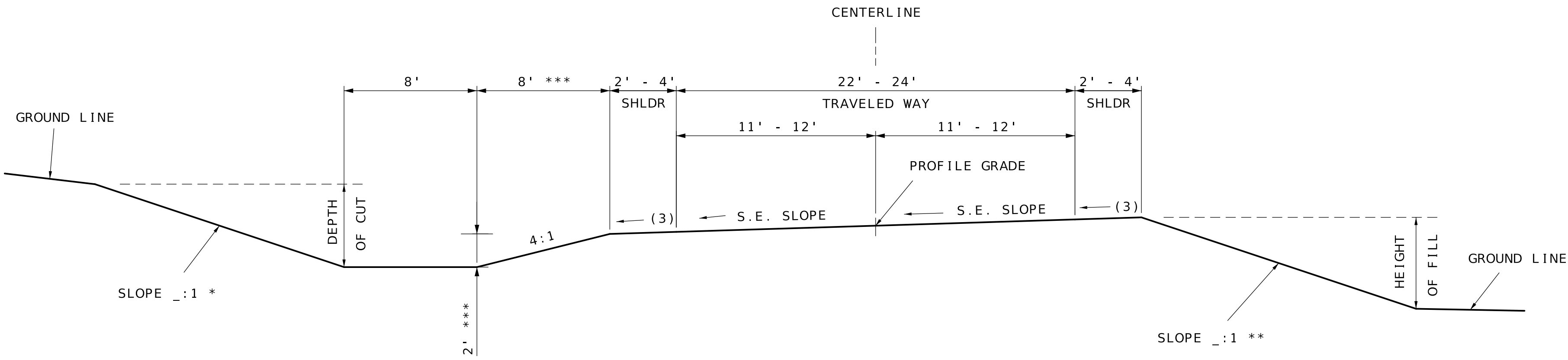
COUNTY
JOB NO.
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

[illegible]MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



SECTION ON TANGENT
TYPICAL SECTION RTE. XX
STA. XXX.XX TO STA. XXX.XX

CROSS SLOPE
(1) 2.0%
(2) 4.0%
(3) S.E. SLOPE IF GREATER THAN 4.0%



SECTION ON SUPERELEVATED CURVE
TYPICAL SECTION RTE. XX
STA. XXX.XX TO STA. XXX.XX

* BACKSLOPE DETERMINED BY SOIL SURVEY.
** THE FILL SLOPE SHALL BE 4:1 OR FLATTER WHEN THE FILL HEIGHT IS EQUAL TO OR LESS THAN 2 FEET (I.E., THE OFFSET FROM THE TOE OF FILL TO THE SHOULDER POINT IS A MINIMUM OF 8 FEET). THE SLOPE MAY VARY TO MEET THIS REQUIREMENT. FOR FILL HEIGHTS GREATER THAN 2 FEET, THE SLOPE SHALL NOT EXCEED THE MAXIMUM SLOPE DETERMINED BY THE SOIL SURVEY.
*** 4' DITCH DEPTH PREFERRED IF ALTERNATE 18" ROCK BASE IS USED. SIDESLOPE WIDTH SHALL BE 16' FOR 4' DITCH DEPTH.

D-67G	
FUNCTION	LOCAL ROADWAY
ADT	> 400
TRAVELED WAY WIDTH	22' - 24'
ROADBED WIDTH	26' - 32'
FORESLOPE	4:1
DITCH	2'

DATE PREPARED
2/5/2024

ROUTE

STATE

MO

DISTRICT

SHEET NO.

X

COUNTY

JOB NO.

CONTRACT ID.

PROJECT NO.

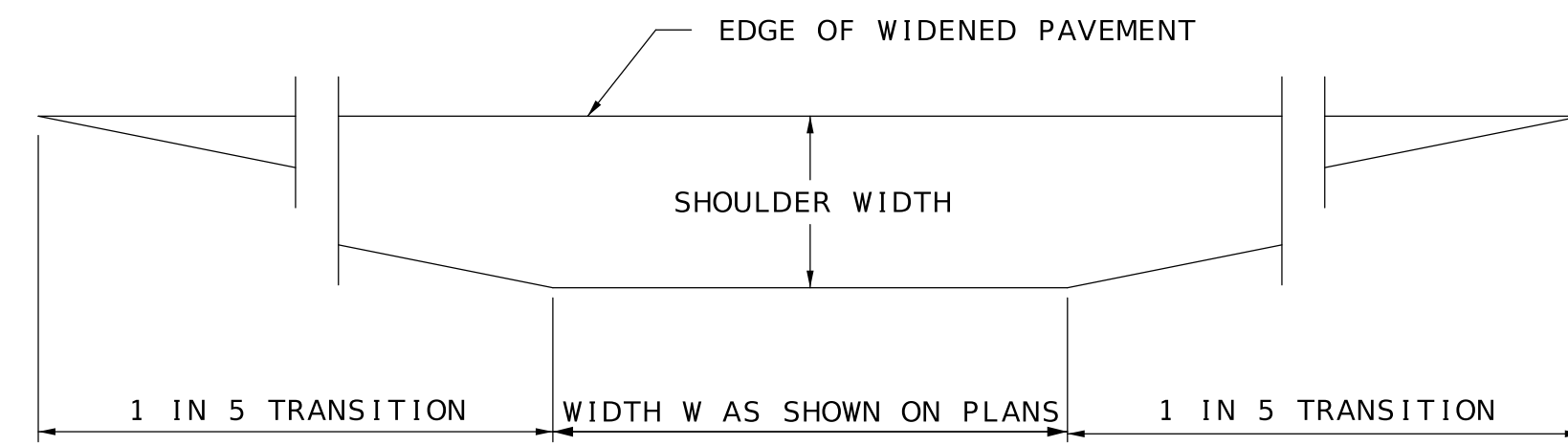
BRIDGE NO.

DESCRIPTION

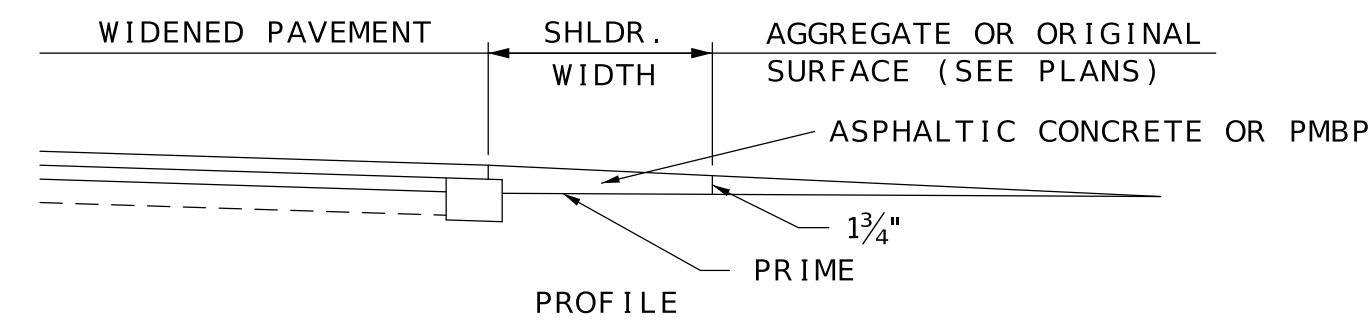
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

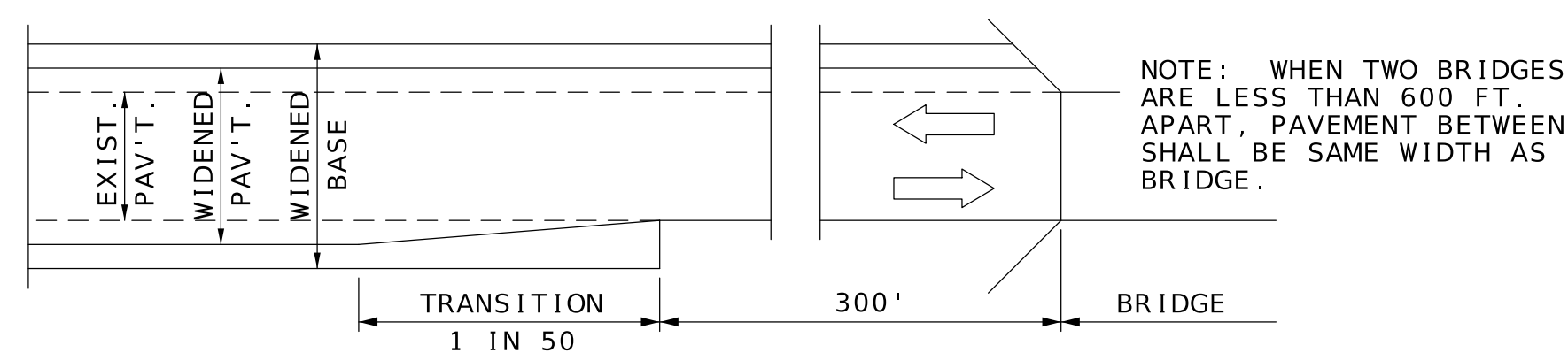
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



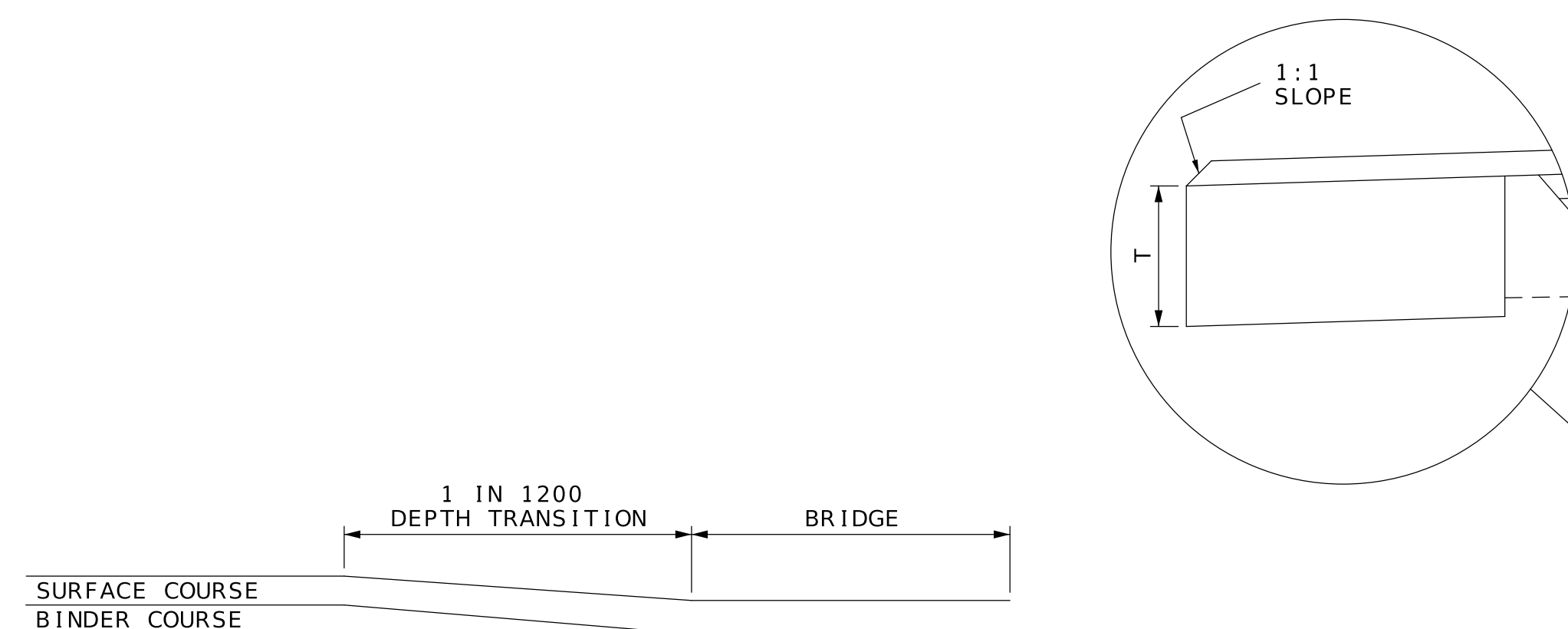
PLAN



SURFACING REQUIREMENTS AT ENTRANCES & APPROACHES

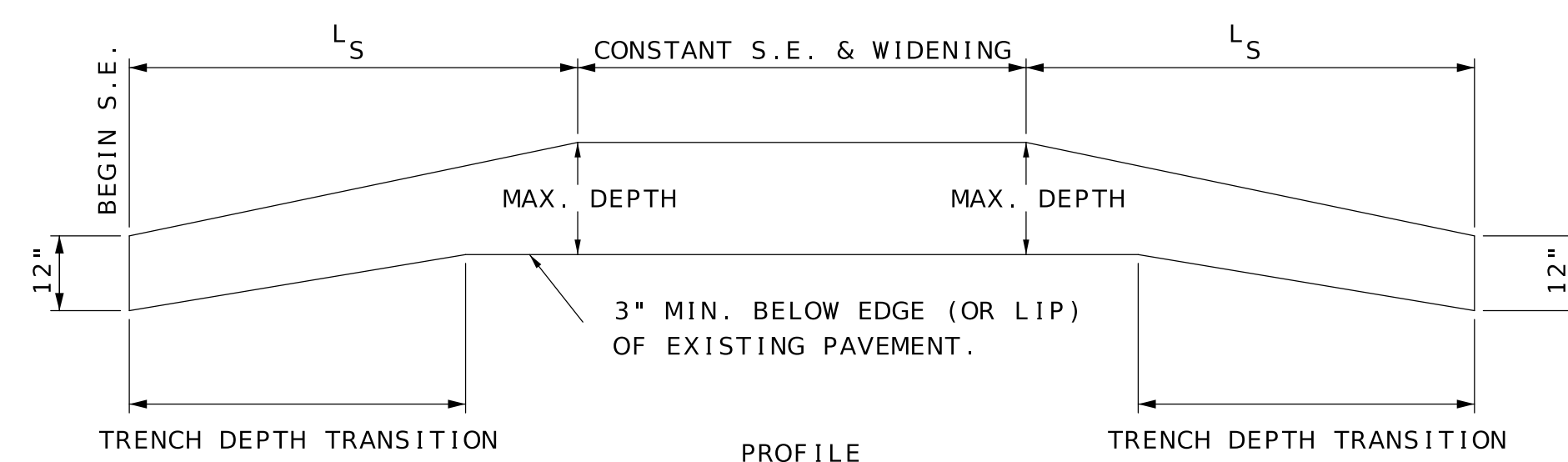


WIDTH TRANSITION AT BRIDGE TO BE RESURFACED

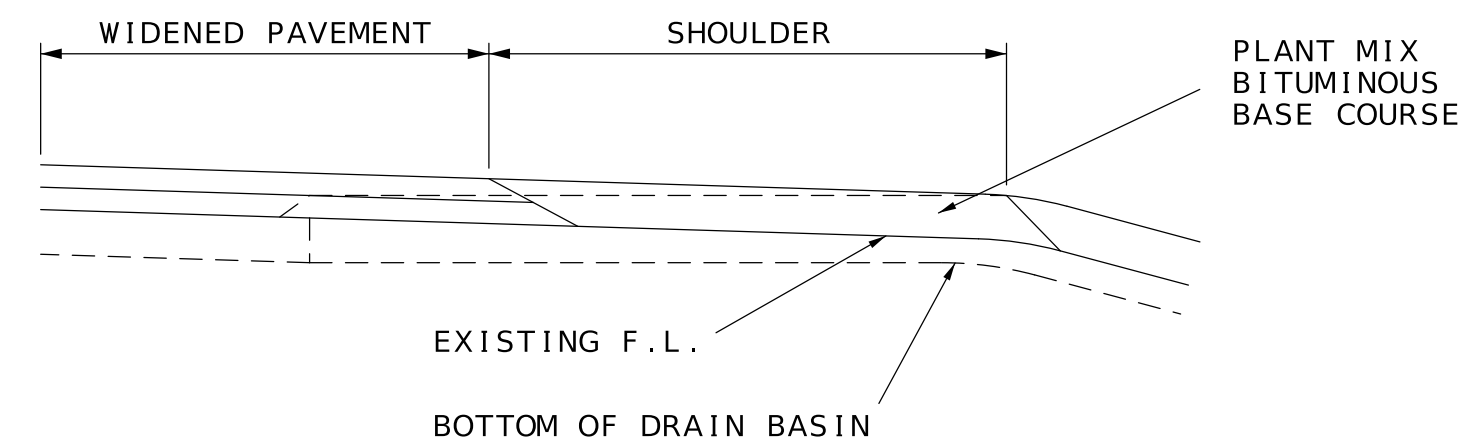


DEPTH TRANSITION AT BRIDGE TO BE RESURFACED

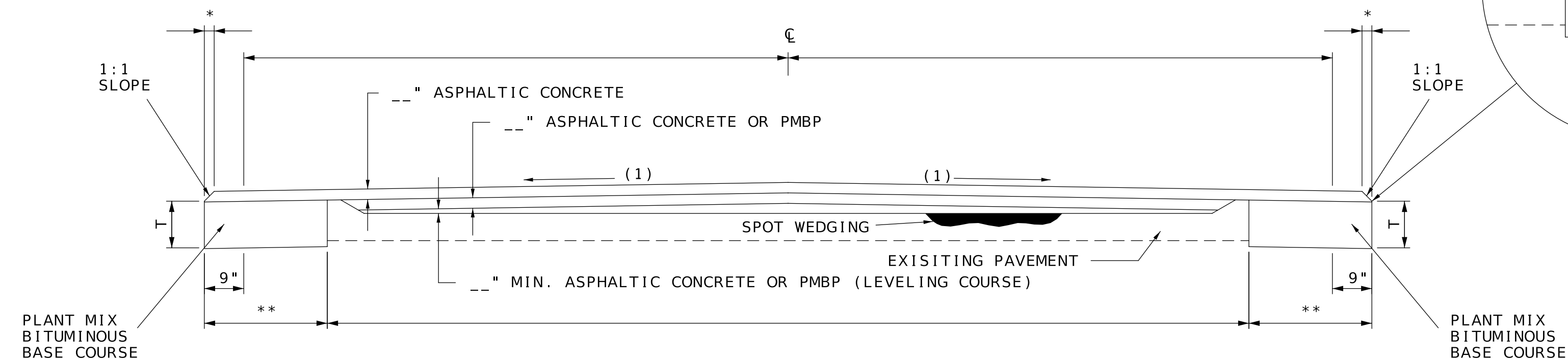
(REMOVE LIP CURB TO 1" MIN. DEPTH BELOW FINISHED SURFACE COURSE)



BASE WIDENING DEPTH TRANSITION ON OUTSIDE OF S.E. CURVES



FILLING EXISTING SURFACE DRAIN BASINS



SECTION ON TANGENT

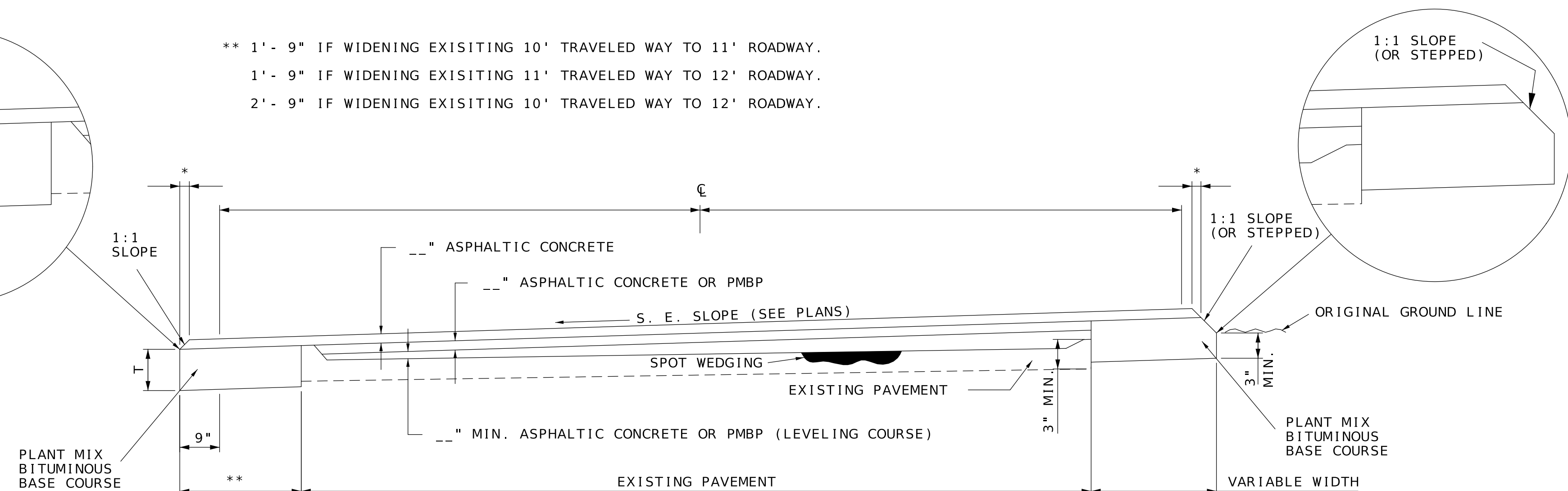
(1) MATCH EXISTING

* VARIABLE - NOT TO EXCEED 9".

** 1' - 9" IF WIDENING EXISITING 10' TRAVELED WAY TO 11' ROADWAY.

1'- 9" IF WIDENING EXISITING 11' TRAVELED WAY TO 12' ROADWAY.

2'- 9" IF WIDENING EXISITING 10' TRAVELED WAY TO 12' ROADWAY.



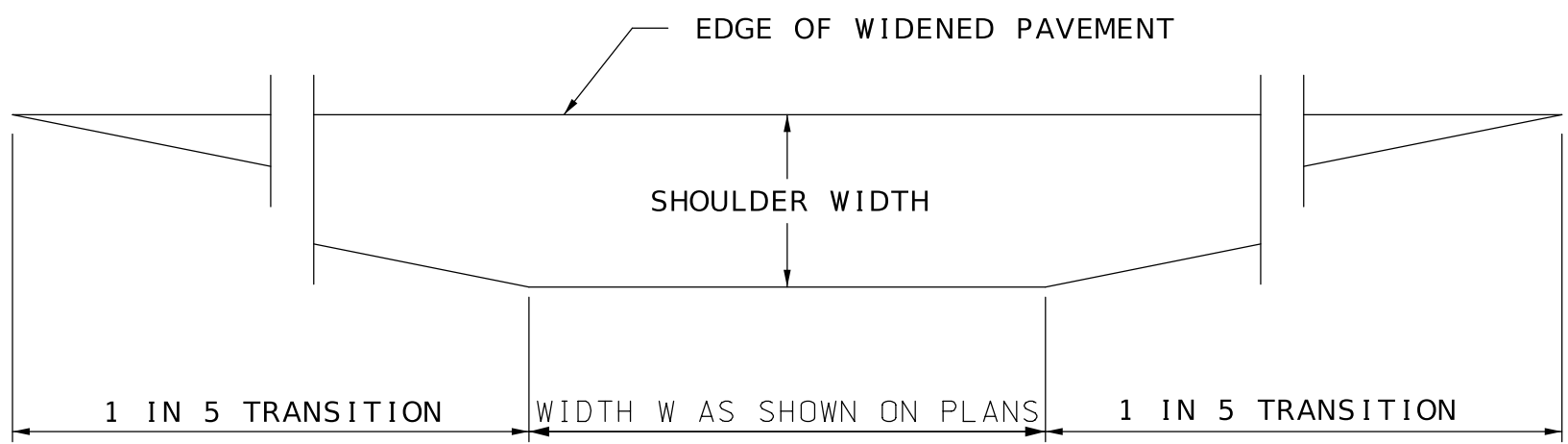
SECTION ON SUPERELEVATED CURVE

TYPICAL DETAILS FOR WIDENING AND RESURFACING

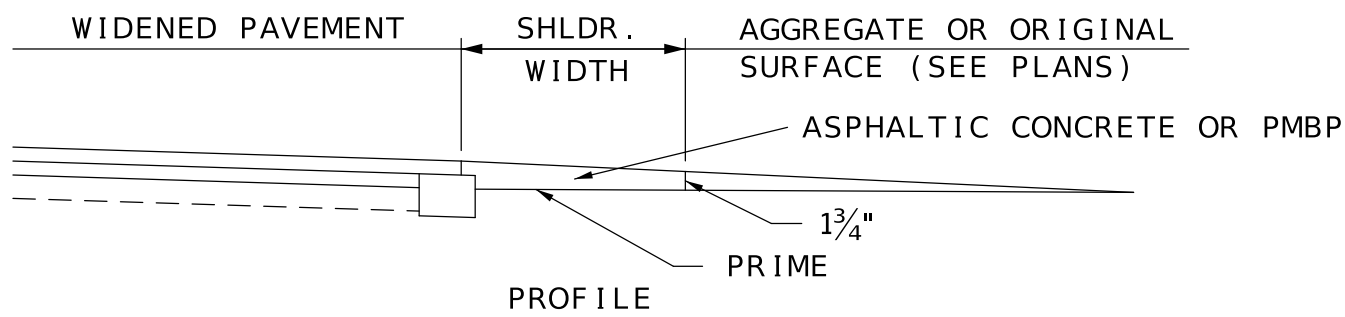
NOTE :

DETAIL SHOWN IN CIRCLES APPLY FOR NO-LIP AREAS
FALLING WITHIN THE LIMITS OF THE ABOVE TYPICAL
SECTIONS.

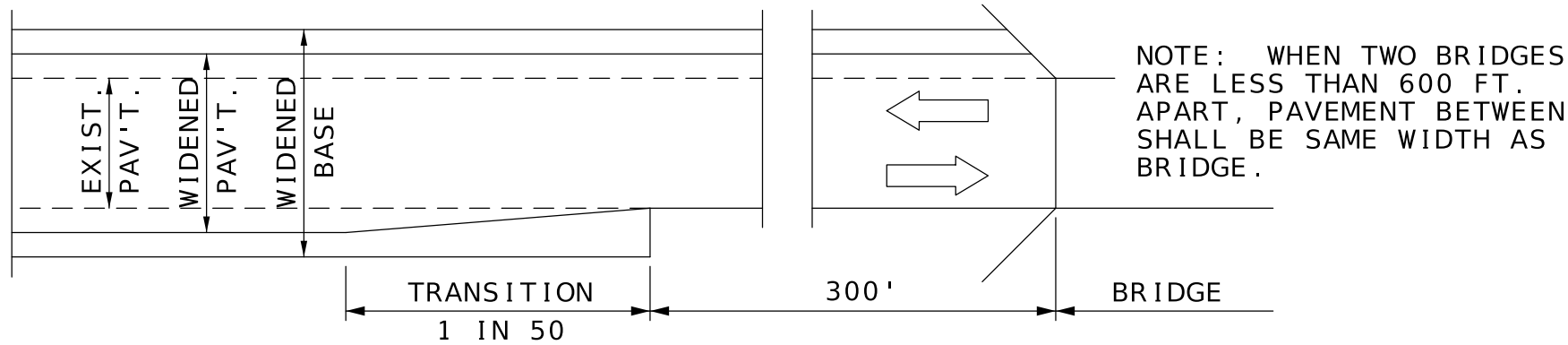
	D- 701
FUNCTION	WIDENING & RESURFACING WITH LIP CURB
TRAVELED WAY WIDTH	N/A
ROADBED WIDTH	N/A
FORESLOPE	N/A
DITCH	N/A



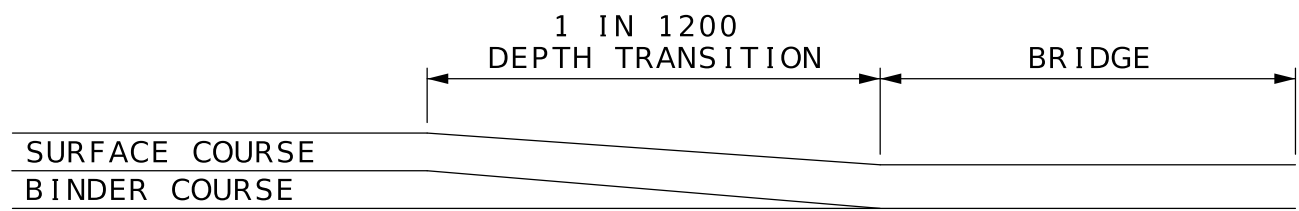
PLAN



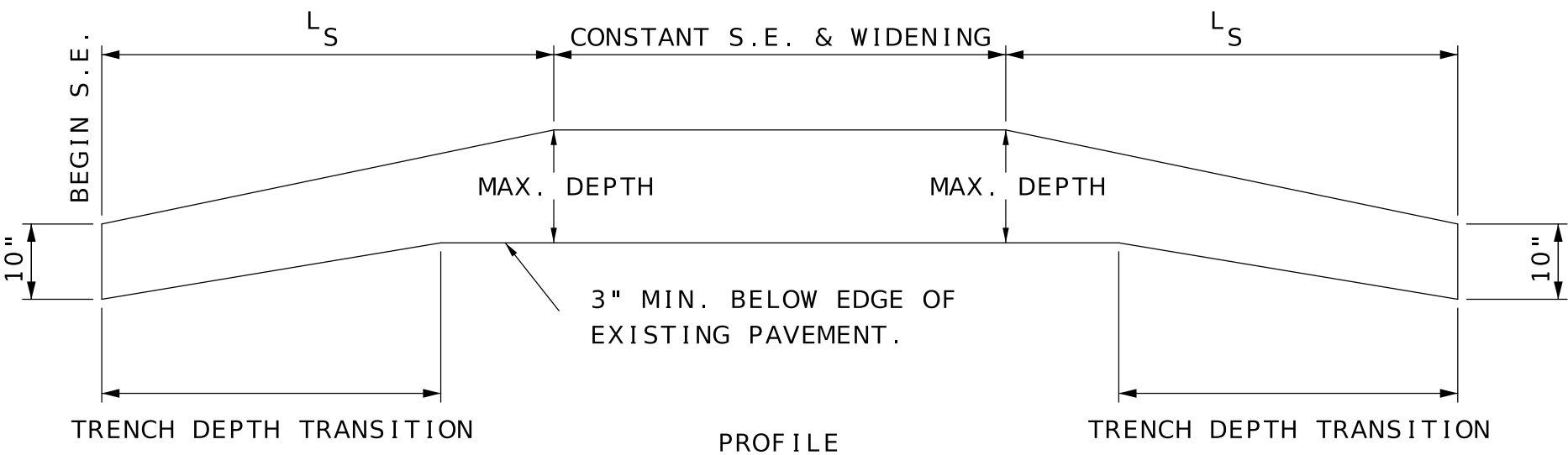
SURFACING REQUIREMENTS AT ENTRANCES & APPROACHES



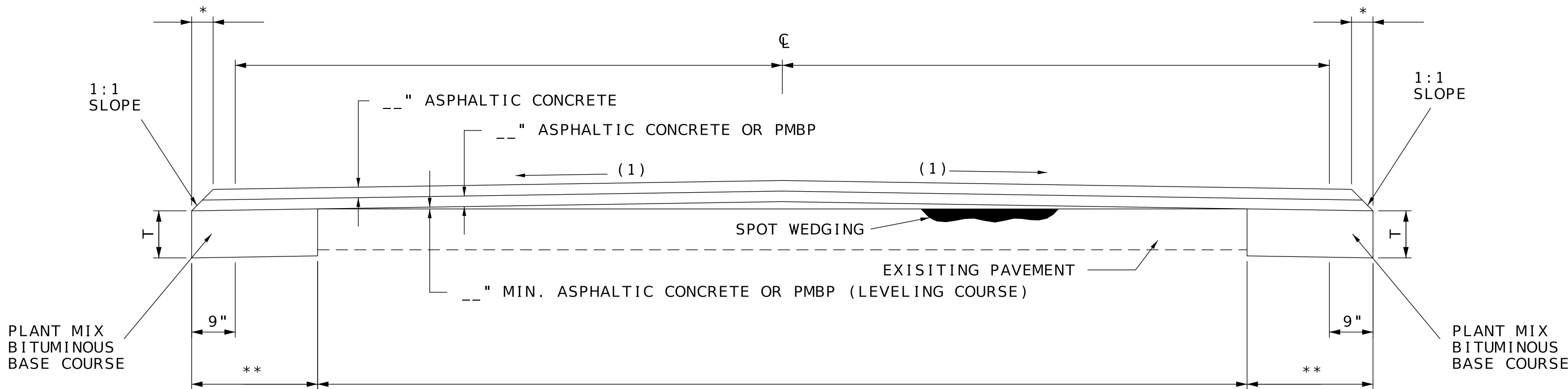
WIDTH TRANSITION AT BRIDGE TO BE RESURFACED



DEPTH TRANSITION AT BRIDGE TO BE RESURFACED
(REMOVE LIP CURB TO 1" MIN. DEPTH BELOW FINISHED SURFACE COURSE)



BASE WIDENING DEPTH TRANSITION
ON OUTSIDE OF S.E. CURVES

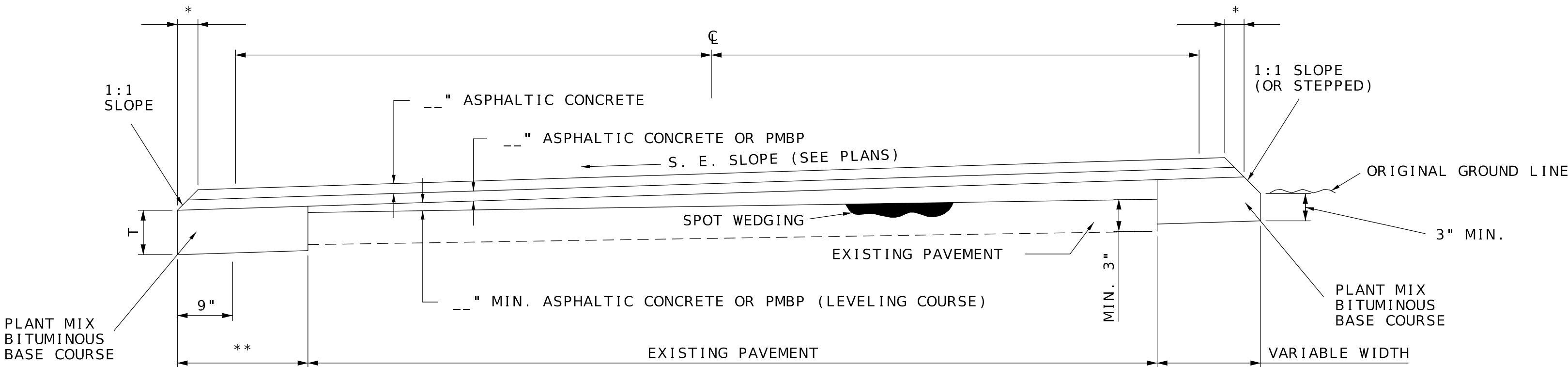


SECTION ON TANGENT

(1) MATCH EXISTING

* VARIABLE - NOT TO EXCEED 9".

** 1'- 9" IF WIDENING EXISITING 10' TRAVELED WAY TO 11' ROADWAY.
1'- 9" IF WIDENING EXISITING 11' TRAVELED WAY TO 12' ROADWAY.
2'- 9" IF WIDENING EXISITING 10' TRAVELED WAY TO 12' ROADWAY.



SECTION ON SUPERELEVATED CURVE

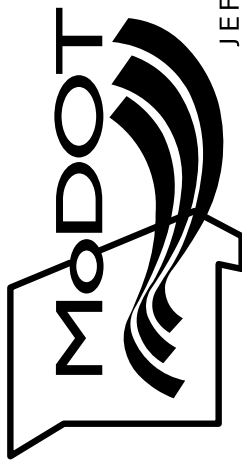
TYPICAL DETAILS
FOR
WIDENING AND RESURFACING

D-71G	
FUNCTION	WIDENING & RESURFACING WITHOUT LIP CURB
TRAVELED WAY WIDTH	N/A
ROADBED WIDTH	N/A
FORESLOPE	N/A
DITCH	N/A

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)