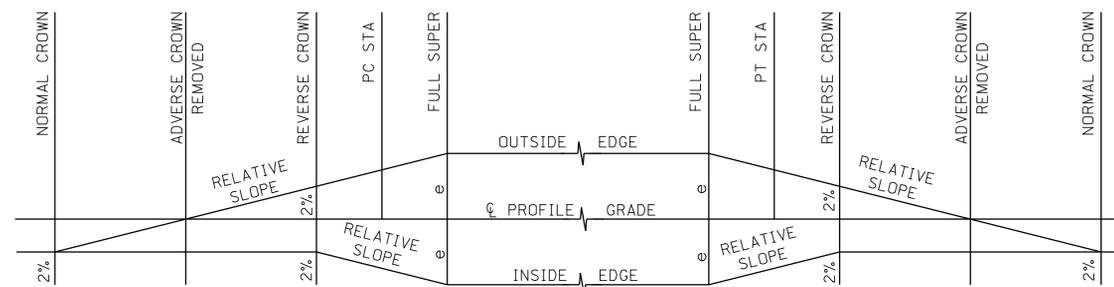


GENERAL INFORMATION

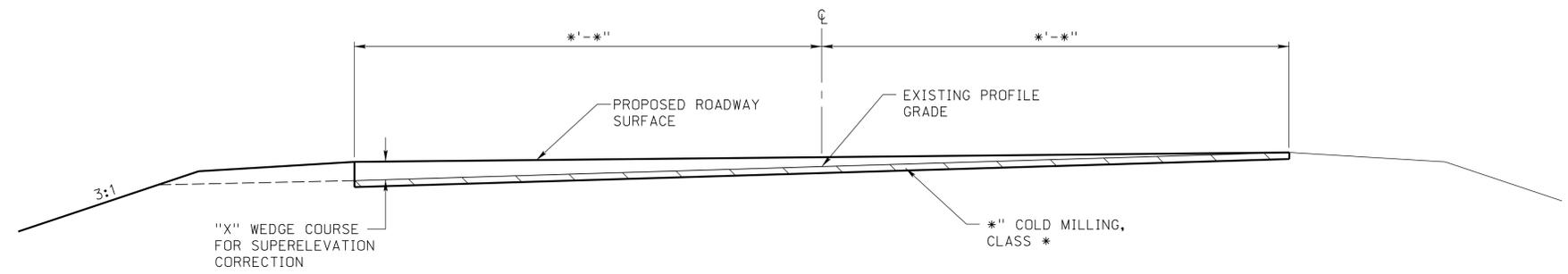
PROJECT NO. SHEET NO.
C.N.



SUPERELEVATION													
P.I. STATION	RADIUS OF CURVE	SUPERELEVATION e %	RELATIVE SLOPE	NORMAL CROWN STATION	ADVERSE CROWN REMOVED STATION	REVERSE CROWN STATION	P.C. STATION	FULL SUPER STATION	FULL SUPER STATION	P.T. STATION	REVERSE CROWN STATION	ADVERSE CROWN REMOVED STATION	NORMAL CROWN STATION
*	*	*	*	*	*	*	*	*	*	*	*	*	*
*	*	*	*	*	*	*	*	*	*	*	*	*	*
*	*	*	*	*	*	*	*	*	*	*	*	*	*
*	*	*	*	*	*	*	*	*	*	*	*	*	*
*	*	*	*	*	*	*	*	*	*	*	*	*	*
*	*	*	*	*	*	*	*	*	*	*	*	*	*
*	*	*	*	*	*	*	*	*	*	*	*	*	*
*	*	*	*	*	*	*	*	*	*	*	*	*	*

FOR DETAILS NOT SHOWN SEE PLAN ---R_

SUPERELEVATION DIAGRAM



WEDGE COURSE FOR SUPERELEVATION CORRECTION
STA. ---+--- TO STA. ---+---

SUPERELEVATION CORRECTION			
STATION TO STATION	QUANTITY (TONS)	TYPE	MAXIMUM "X" CORRECTION DEPTH
* - *	*	* * *	*"

FOR INFORMATION ONLY

DELETE THIS
PORTION
IF NOT
NEEDED

ROADWAY DESIGN DIVISION
 Computer: DRDESIGN218
 User: dor13195
 Date: 12-JUL-2016 09:42
 File: 10003600.dgn
 Scale: 1:137.2225
 SHEET: 1 OF 1000-3-e-00

GENERAL INFORMATION

PROJECT NO. SHEET NO.
C.N.

PARAGRAPHS 8.a., b., c. AND d. OF SUBSECTION 605.04 ARE VOID AND SUPERCEDED BY THE FOLLOWING:

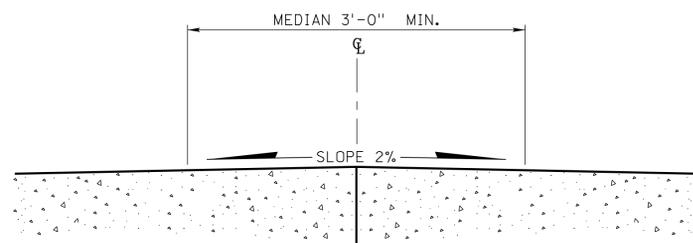
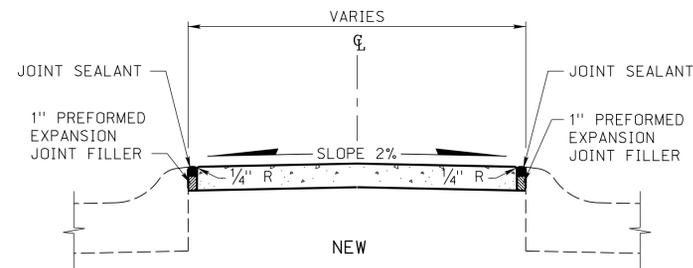
- 8.a. THE SURFACE OF THE MILLED CONCRETE SHALL BE FREE FROM LOOSE CONCRETE, SAND, AND OTHER DEBRIS AND SHALL BE MAINTAINED IN A DRY AND CLEAN CONDITION BEFORE APPLYING EPOXY.
- b. THE CLEAN, DRY SURFACE SHALL BE COATED WITH GRADE 2 EPOXY ADHESIVE FROM THE NDOR APPROVED PRODUCTS LIST, JUST BEFORE PLACING THE NEW CONCRETE.
- c. THE EPOXY ADHESIVE SHALL BE APPLIED TO THE VERTICAL AND HORIZONTAL FACES OF THE REPAIR WITH A BRUSH. TRANSVERSE AND LONGITUDINAL JOINTS AND CRACKS SHALL NOT BE COATED WITH EPOXY.
- d. THE EPOXY APPLICATION RATE SHALL BE LIMITED SO THE EPOXY ADHESIVE DOES NOT BECOME DRY BEFORE IT IS COVERED WITH NEW CONCRETE.

ONE INCH PREFORMED EXPANSION JOINT FILLER SHALL BE PLACED ACROSS THE FULL WIDTH OF THE MEDIAN SURFACING AT INTERVALS OF NOT MORE THAN 49'-0".

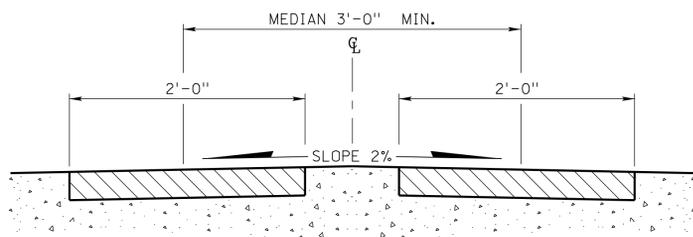
LONGITUDINAL JOINTS ONE INCH DEEP SHALL BE MADE IN ALL MEDIANS WHEN SURFACING WIDTH IS 16'-0" OR GREATER.

TRANSVERSE JOINTS ONE INCH DEEP SHALL BE MADE IN ALL MEDIANS AT INTERVALS OF NOT MORE THAN 8'-0".

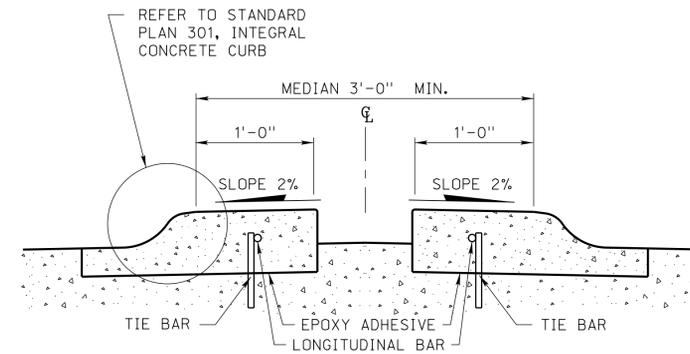
JOINT THE CURB TO MATCH THE PAVEMENT JOINTS.



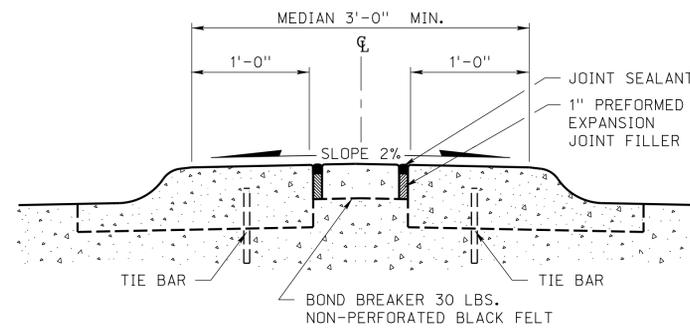
STEP I - BUILD TRAFFIC LANE (FULL DEPTH)



STEP II - MILL 2" x 2'-0"



STEP III - BUILD CURB, WITH #5 x 8" TIE BAR AT 5'-0" CENTERS TO BE DRILLED AND GROUT AND #4 LONGITUDINAL BAR GAPPED AT CONTRACTION JOINT LOCATIONS: 3" MIN, 6" MAX.



STEP IV - BUILD MEDIAN SURFACING ON EXISTING SURFACE

CONCRETE MEDIAN SURFACING

ROADWAY DESIGN DIVISION

Computer: DRDESIGN218

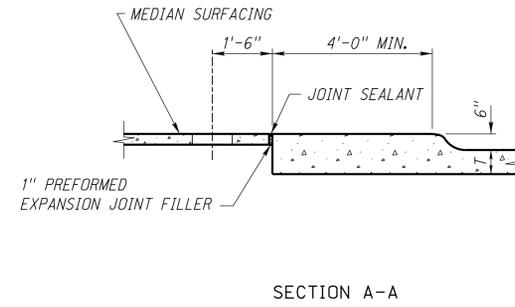
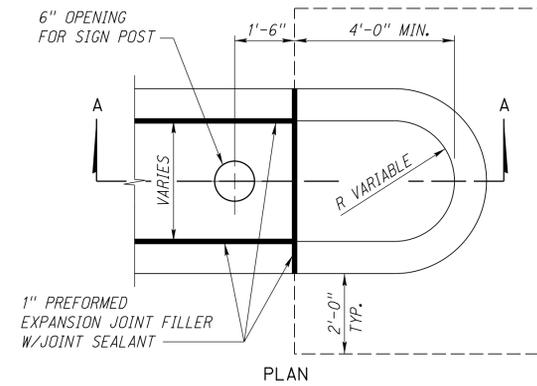
User: dcr13195

Date: 12-JUL-2016 09:42

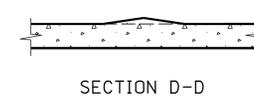
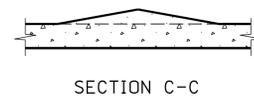
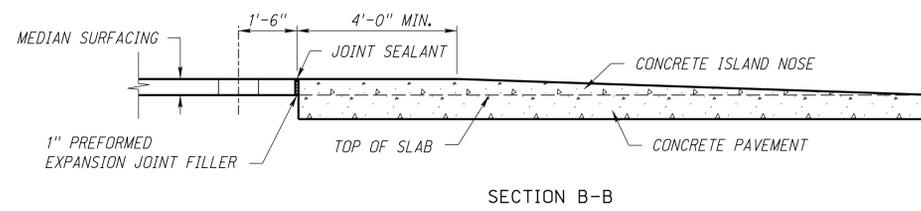
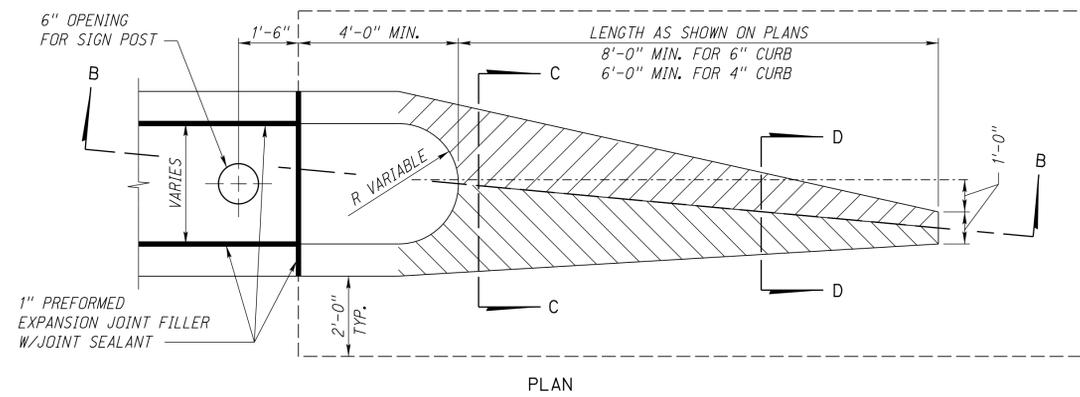
File: 30103e00.dgn
Scale: 1:100
SHEET 1 OF 2

GENERAL INFORMATION

PROJECT NO.	SHEET NO.
C.N.	



END OF MEDIAN ISLAND



CONCRETE ISLAND NOSE FOR RETROFIT

NOTE:
EXISTING CONCRETE PAVEMENT IS TO BE REMOVED TO BUILD CONCRETE ISLAND NOSE.

ROADWAY DESIGN DIVISION

Computer: DRDESIGN218

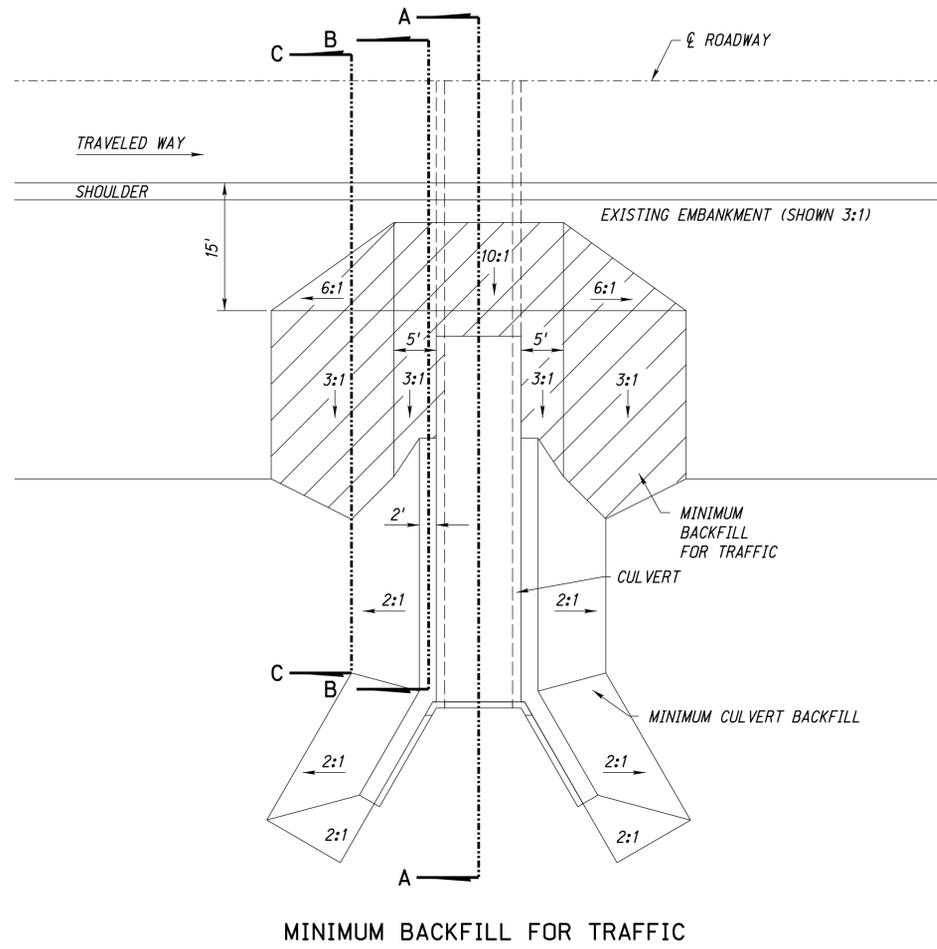
User: dcr13195

Date: 12-JUL-2016 09:42

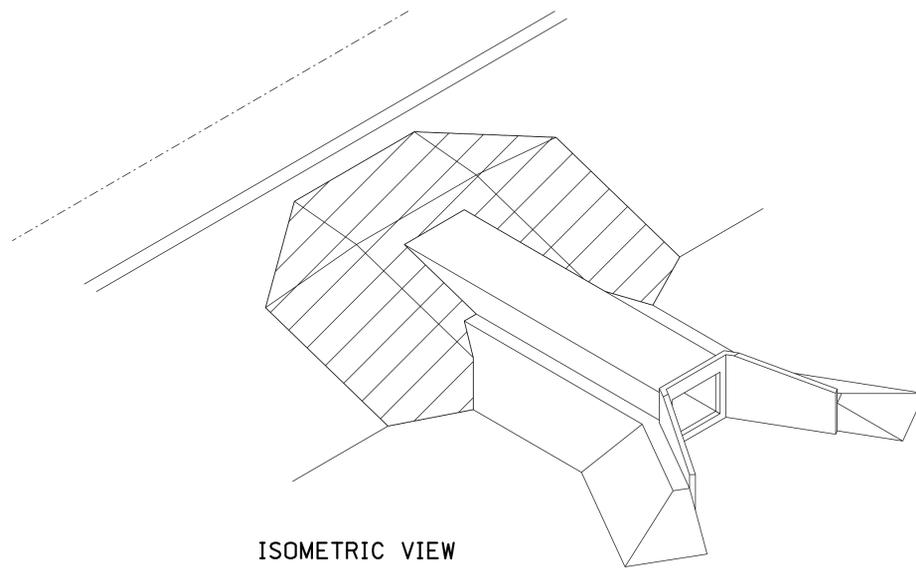
File: 30103e00.dgn
Scale: 1:100
SHEET 2 OF 2

GENERAL INFORMATION

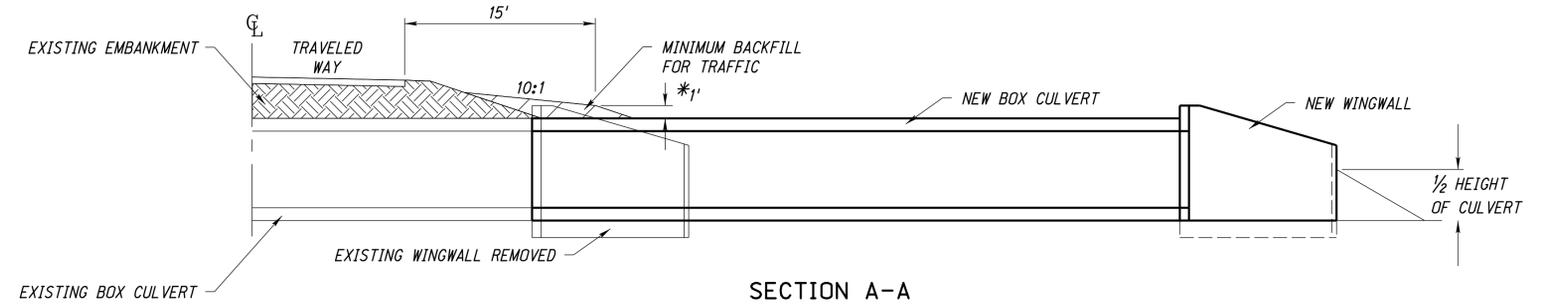
PROJECT NO. SHEET NO.
C.N.



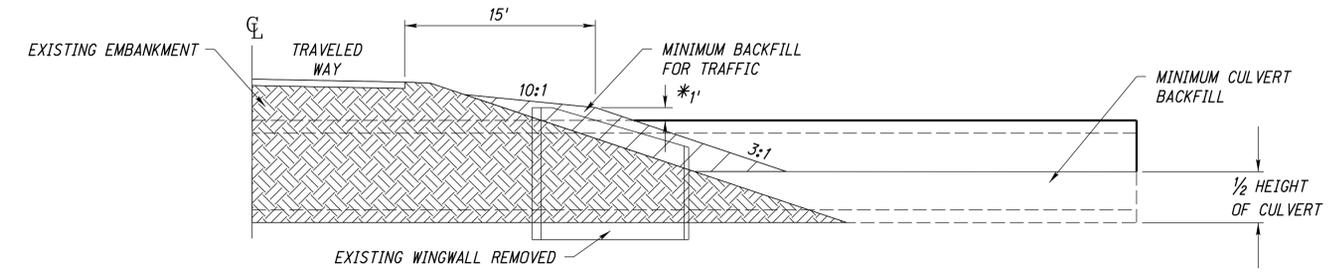
MINIMUM BACKFILL FOR TRAFFIC



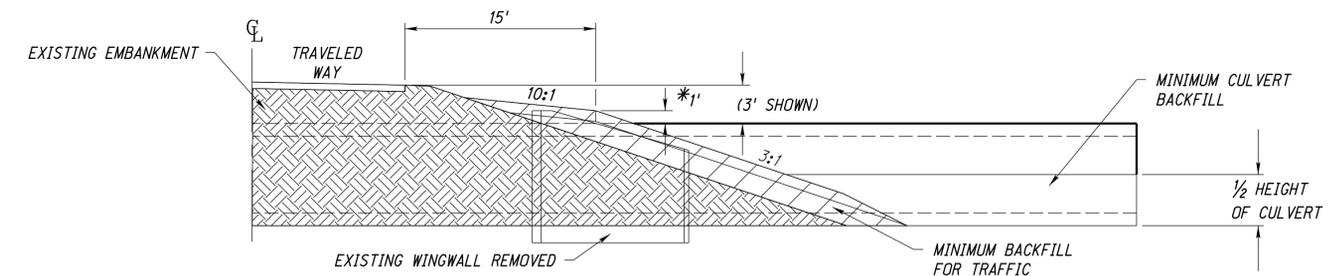
ISOMETRIC VIEW



SECTION A-A



SECTION B-B



SECTION C-C

NOTE:
REFER TO STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION SECTION 702 FOR MORE INFORMATION.
* TO PROTECT THE PIPE AND BACKFILL DURING CONSTRUCTION, PROVIDE A MINIMUM OF 36" OF COMPACTED FILL MATERIAL OVER THE TOP OF THE PIPE BEFORE ALLOWING ANY HEAVY EQUIPMENT TO TRAVERSE OVER THE PIPE. EXTREMELY HEAVY EQUIPMENT MAY REQUIRE LARGER COVER AS DETERMINED BY THE CONTRACTOR.

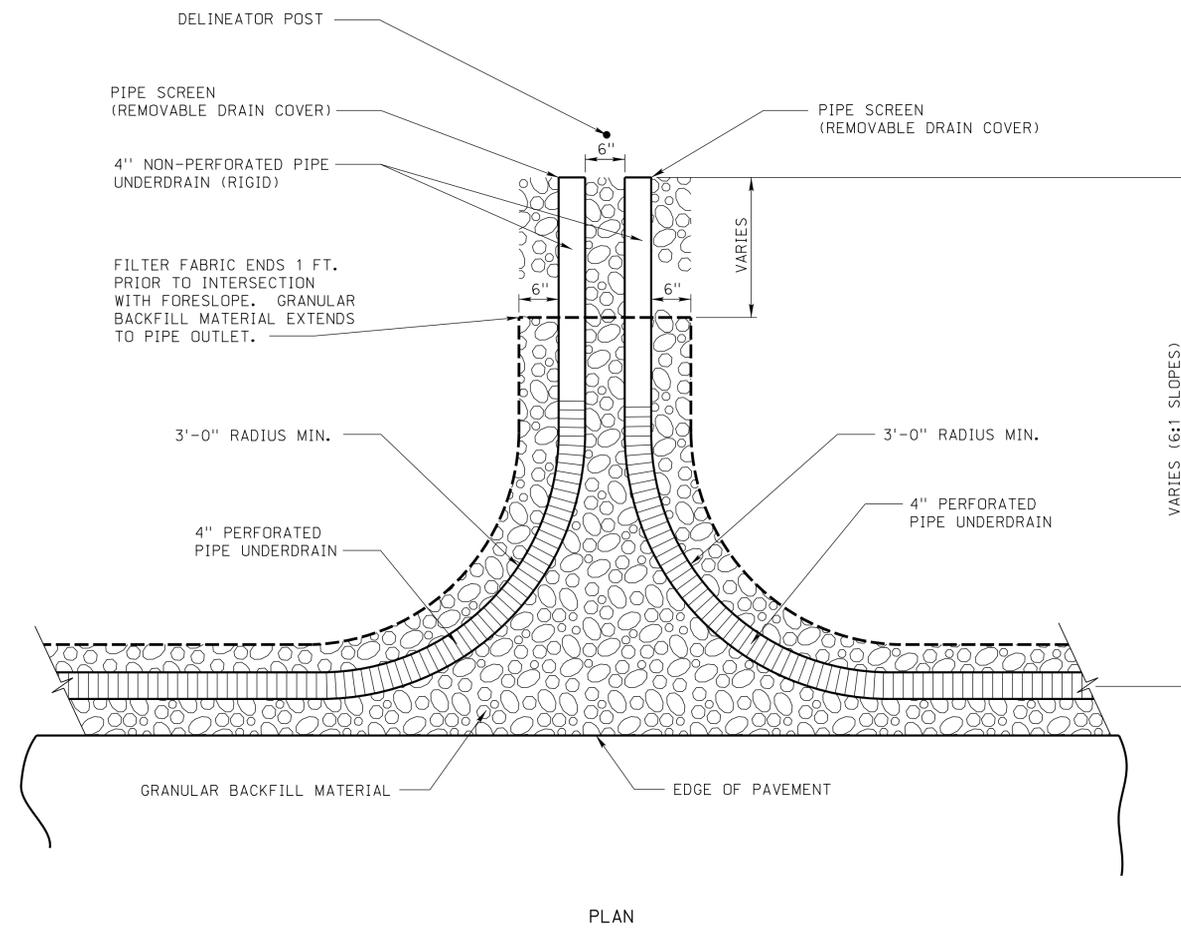
MINIMUM BACKFILL FOR TRAFFIC

ROADWAY DESIGN DIVISION
Computer: DRDESIGN218
User: dcr13195
Date: 12-JUL-2016 09:42
File: 40003e00.dgn
Scale: 1:100
SHEET TOP 1 4000-3-E-00

GENERAL INFORMATION

PROJECT NO.	SHEET NO.
C.N.	

BUILD 4" PIPE UNDERDRAIN					
STATION	TO	STATION	SIDE	DESCRIPTION	
*		*	*	*	PERFORATED LIN. FT.
*		*	*	*	NONPERFORATED LIN. FT.



PLAN
PLAN VIEW OF PIPE UNDERDRAIN OUTLET

ROADWAY DESIGN DIVISION

Computer: DRDESIGN218

User: ddr13195

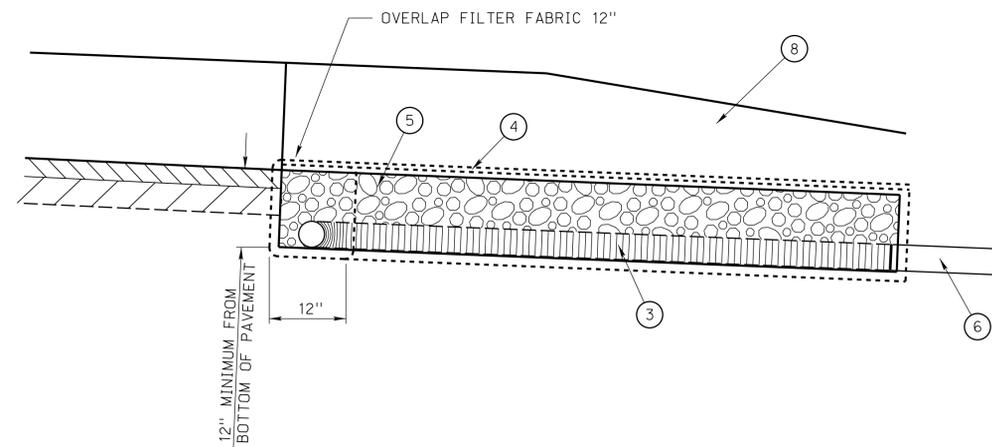
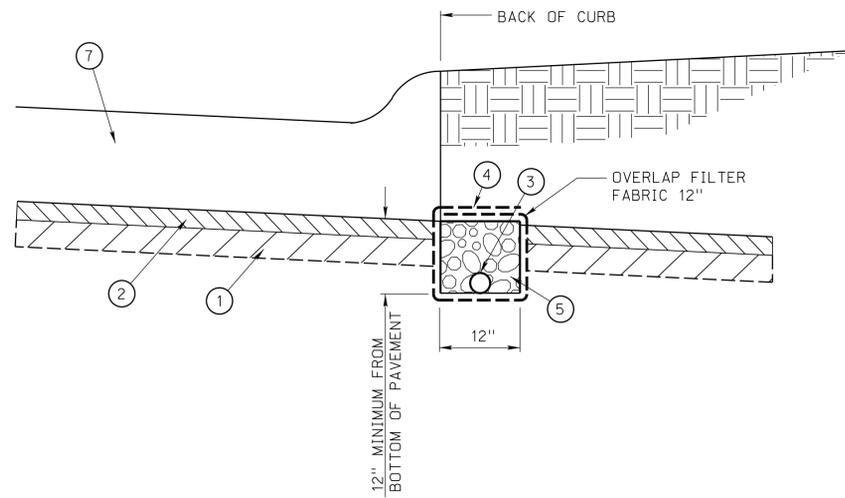
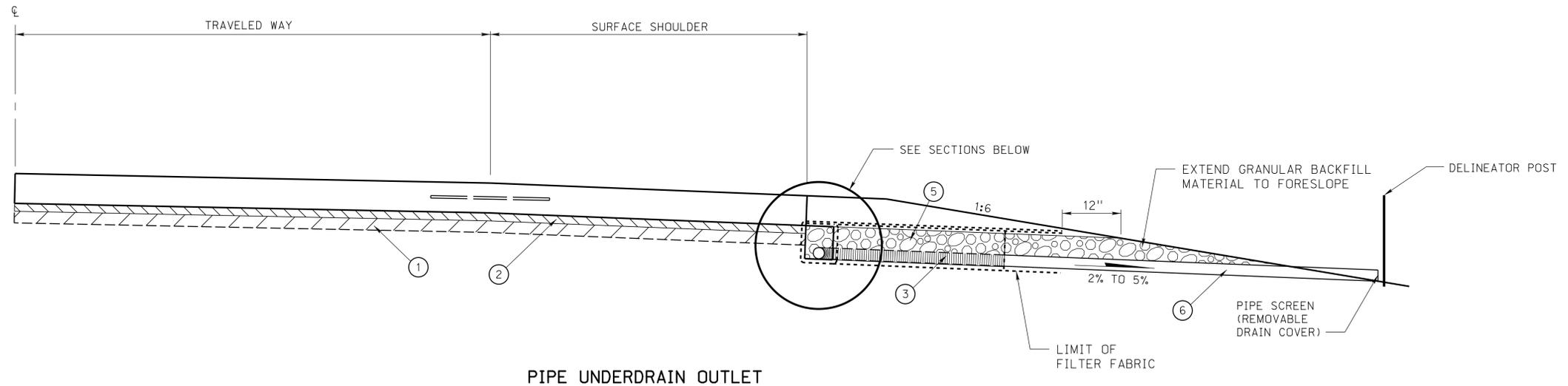
Date: 12-JUL-2016 09:42

File: 43003e00.dgn
Scale: 1:100
SHEET 1 OF 4

THIS PLAN IS DRAWN AT 100 SCALE.

GENERAL INFORMATION

PROJECT NO. SHEET NO.
C.N.



NOTE:
SHOULDER CONSTRUCTION TO BE PERFORMED
PRIOR TO CONSTRUCTING PIPE UNDERDRAINS.

- ① SUBGRADE PREPARATION
- ② FOUNDATION COURSE
- ③ 4" PERFORATED PIPE UNDERDRAIN
- ④ FILTER FABRIC (SUBSIDIARY)
- ⑤ GRANULAR BACKFILL MATERIAL (SUBSIDIARY)
- ⑥ 4" NON-PERFORATED PIPE UNDERDRAIN (RIGID)
- ⑦ CONCRETE PAVEMENT
- ⑧ COHESIVE SOIL

ROADWAY DESIGN DIVISION

Computer: DRDESIGN218

User: dcr13195

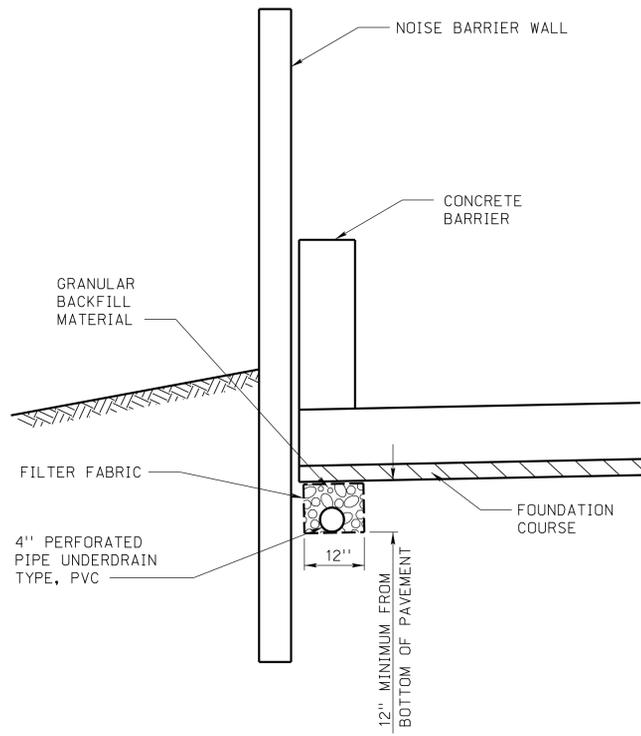
Date: 12-JUL-2016 09:42

File: 43003e00.dgn
Scale: 1:100
SHEET 2 OF 4

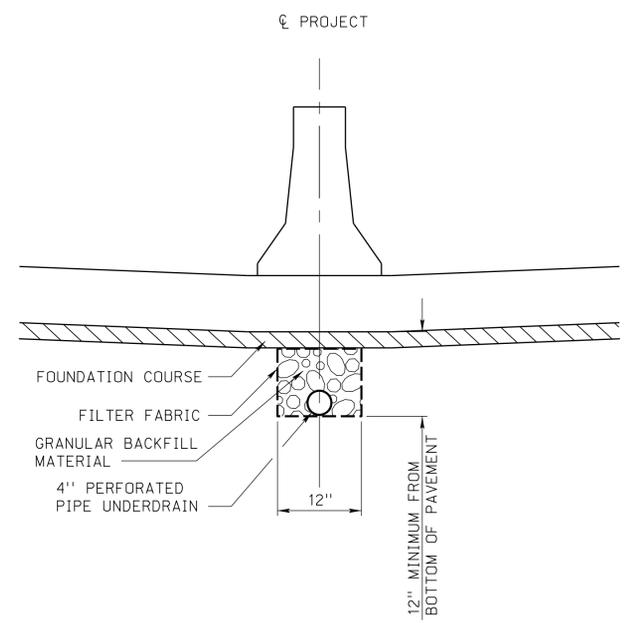
THIS PLAN IS DRAWN AT 100 SCALE. (use in rural areas)

GENERAL INFORMATION

PROJECT NO. SHEET NO.
C.N.

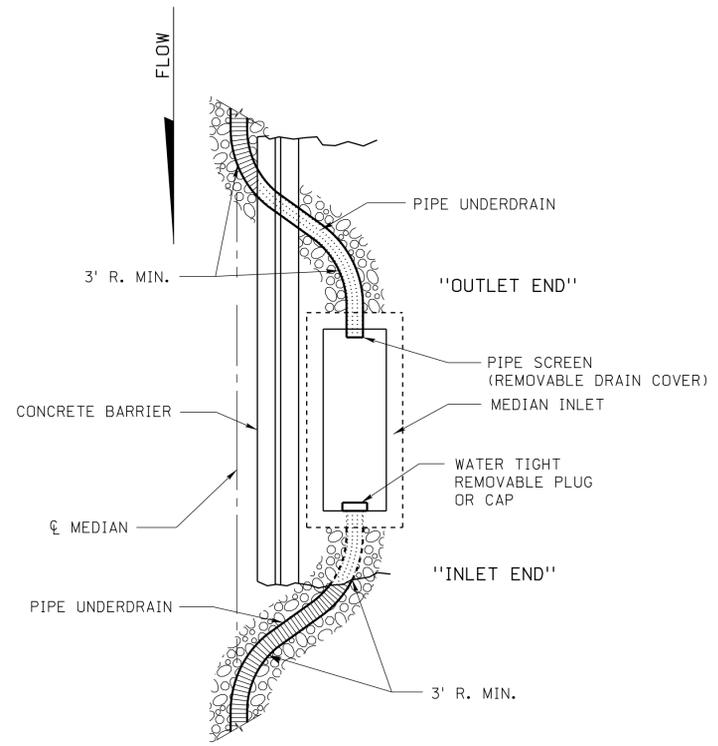


SECTION

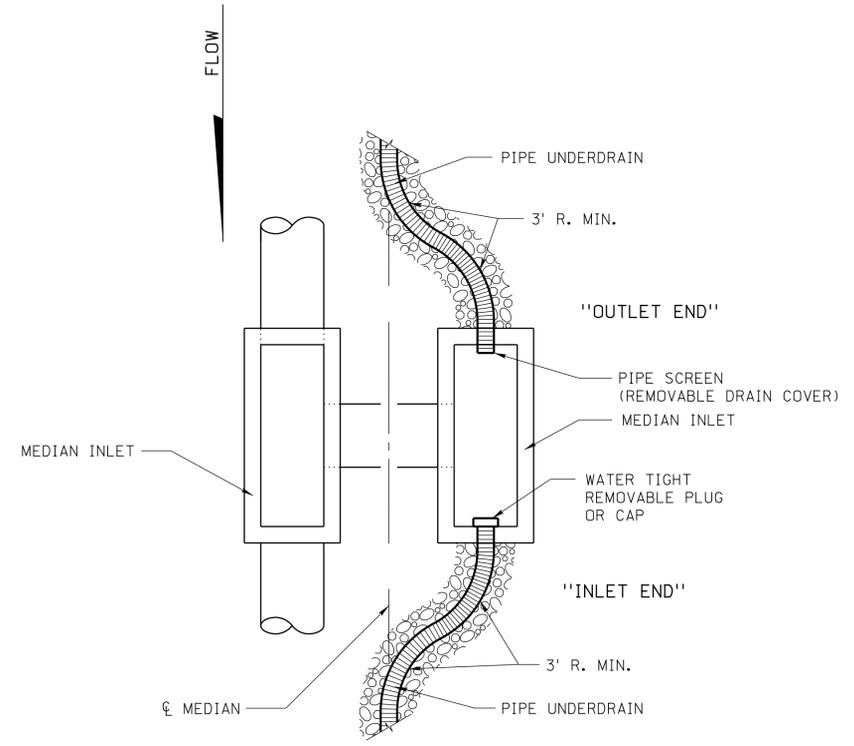


SECTION

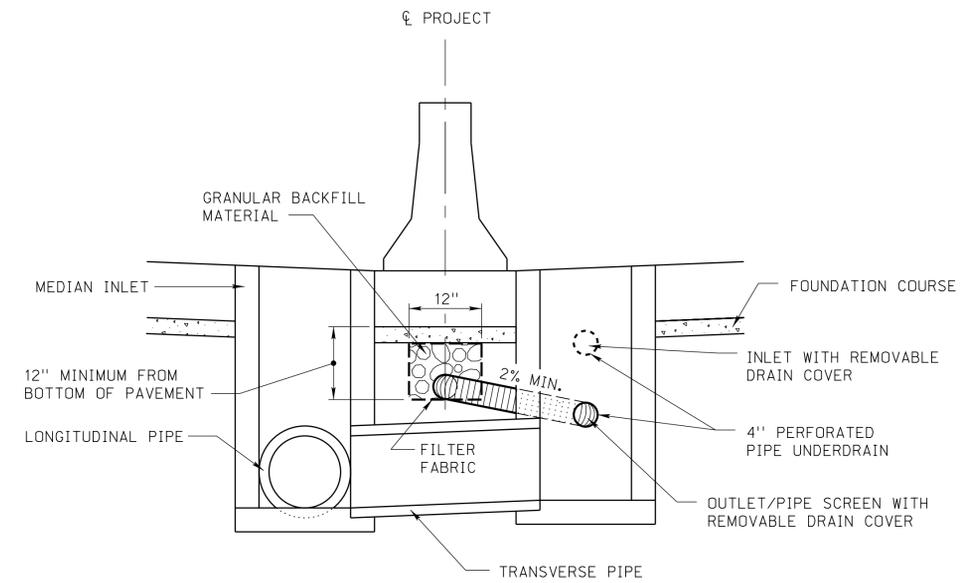
DETAILS OF PIPE UNDERDRAIN PLACEMENT



PLAN



PLAN



SECTION

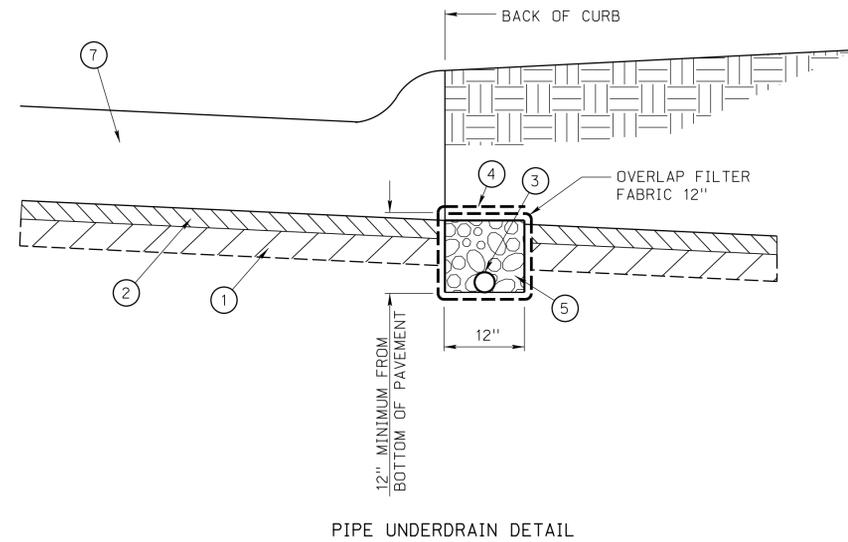
DETAILS OF PIPE UNDERDRAIN CONNECTION TO MEDIAN INLETS & GRATE INLETS

ROADWAY DESIGN DIVISION
 Computer: DRDESIGN218
 User: dcr13195
 Date: 12-JUL-2016 09:42
 File: 43003e00.dgn
 Scale: 1:100
 SHEET 3 OF 4
 4300-3-E-00

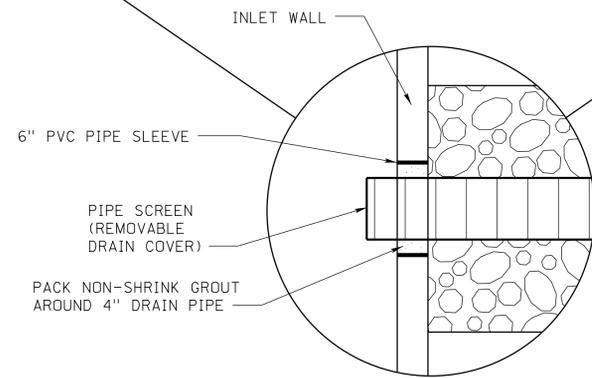
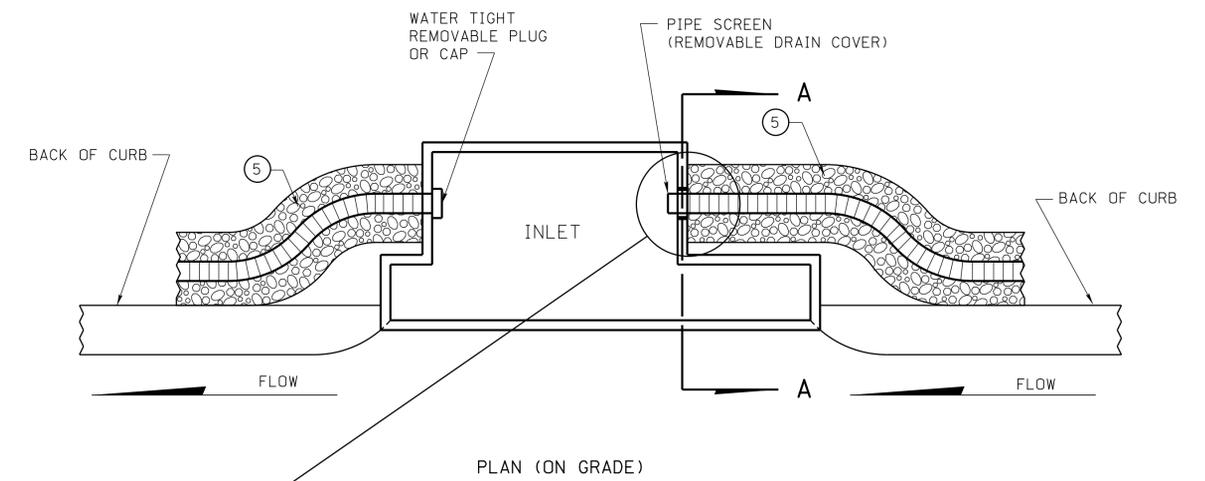
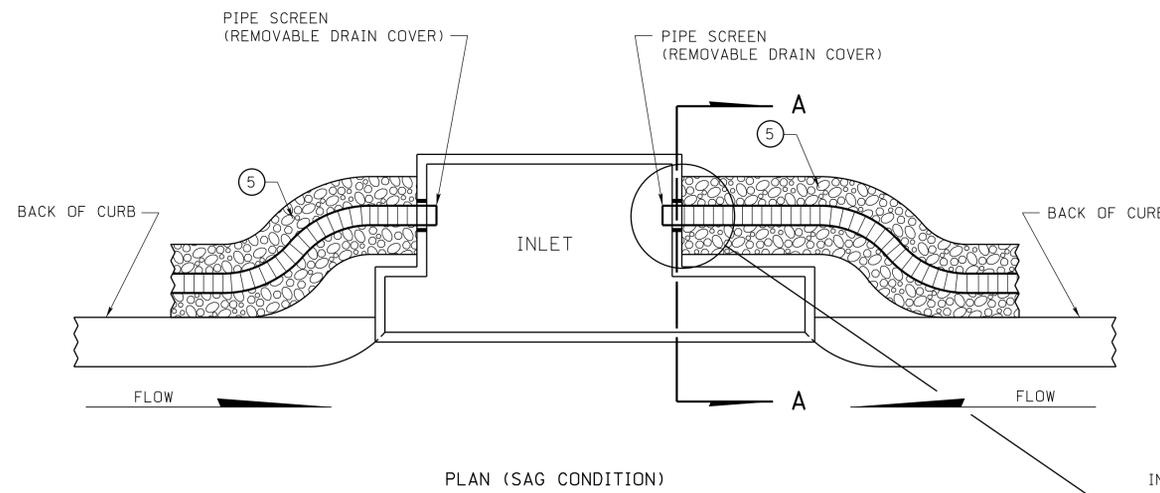
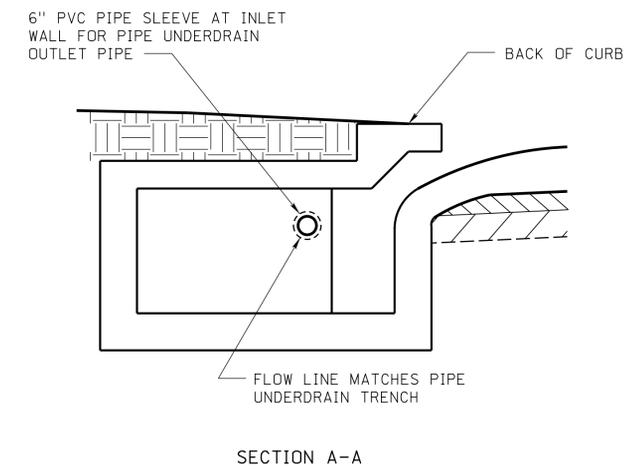
THIS PLAN IS DRAWN AT 100 SCALE. (use in interstate)

GENERAL INFORMATION

PROJECT NO. SHEET NO.
C.N.



- ① SUBGRADE PREPARATION
- ② FOUNDATION COURSE
- ③ 4" PERFORATED PIPE UNDERDRAIN
- ④ FILTER FABRIC (SUBSIDIARY)
- ⑤ GRANULAR BACKFILL MATERIAL (SUBSIDIARY)
- ⑥ 4" NON-PERFORATED PIPE UNDERDRAIN (RIGID)
- ⑦ CONCRETE PAVEMENT
- ⑧ COHESIVE SOIL



IN URBAN SETTINGS WITH FLAT TOPOGRAPHY WHERE BACK FLOW INTO PIPE UNDER DRAWS IS POSSIBLE, CONTACT PAVEMENT DESIGN TO REVIEW OPTIONS.

DETAIL OF PIPE UNDERDRAIN AT INLET

ROADWAY DESIGN DIVISION

Computer: DRDESIGN218

User: dcr13195

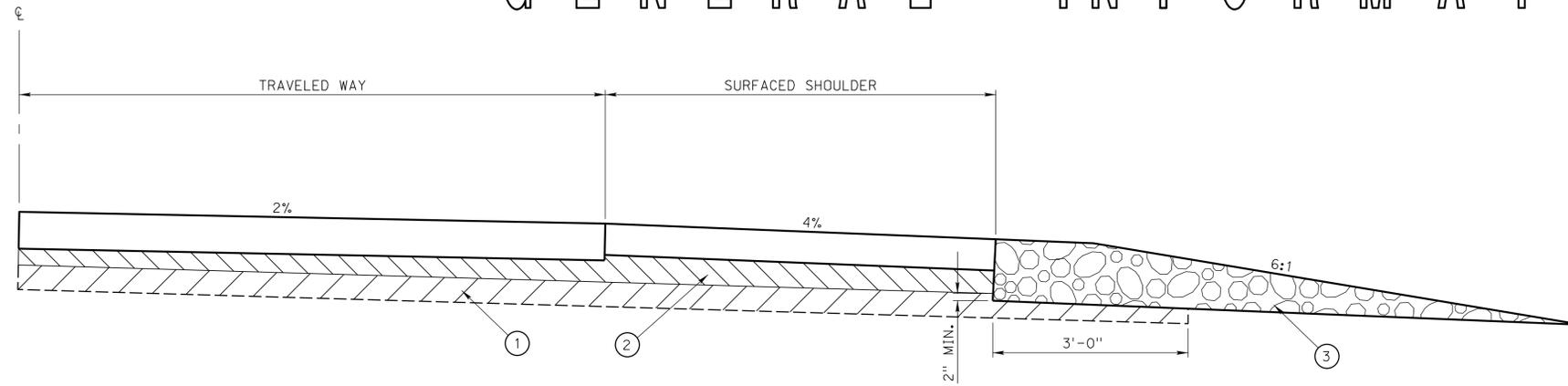
Date: 12-JUL-2016 09:42

File: 43003e00.dgn
Scale: 1:100
SHEET 4 OF 4
4300-3-E-00

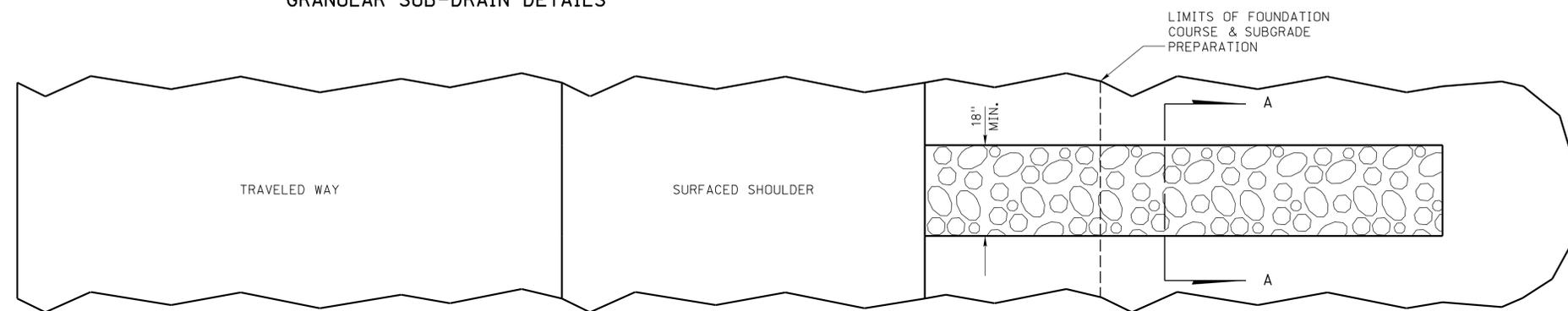
THIS PLAN IS DRAWN AT 100 SCALE. (use in urban areas)

GENERAL INFORMATION

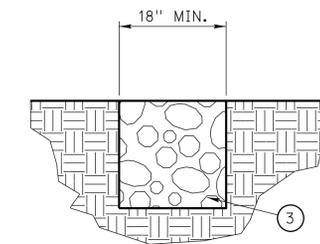
PROJECT NO.	SHEET NO.
C.N.	



GRANULAR SUB-DRAIN DETAILS



GRANULAR SUB-DRAIN DETAILS



SECTION A-A

- ① SUBGRADE PREPARATION
- ② FOUNDATION COURSE
- ③ GRANULAR BACKFILL MATERIAL (SUBSIDIARY)

CONSTRUCTION NOTES:

THE GRANULAR SUB-DRAIN SHALL BE CONSTRUCTED WITH POSITIVE DRAINAGE.

GRANULAR SUB-DRAIN SHALL BE INSTALLED AFTER ALL SHOULDERING & EARTH WORK IS COMPLETED AND PRIOR TO SEEDING.

GRANULAR SUB-DRAINS SHALL BE CONSTRUCTED AT INTERVALS OF 200'-0" WHERE THE GRADE IS 1% OR OVER AND AT INTERVALS OF 100 FT. ON GRADES UNDER 1%.

GRANULAR SUB-DRAINS SHALL BE BUILT PERPENDICULAR TO THE CENTER LINE.

BUILD GRANULAR SUB-DRAIN					
STATION	TO	STATION	SIDE	EACH	SPACING
*	-	*	*	*	*

View 1 - NEW CONSTRUCTION

THIS PLAN IS DRAWN AT 100 SCALE.

ROADWAY DESIGN DIVISION

Computer: DRDESIGN218

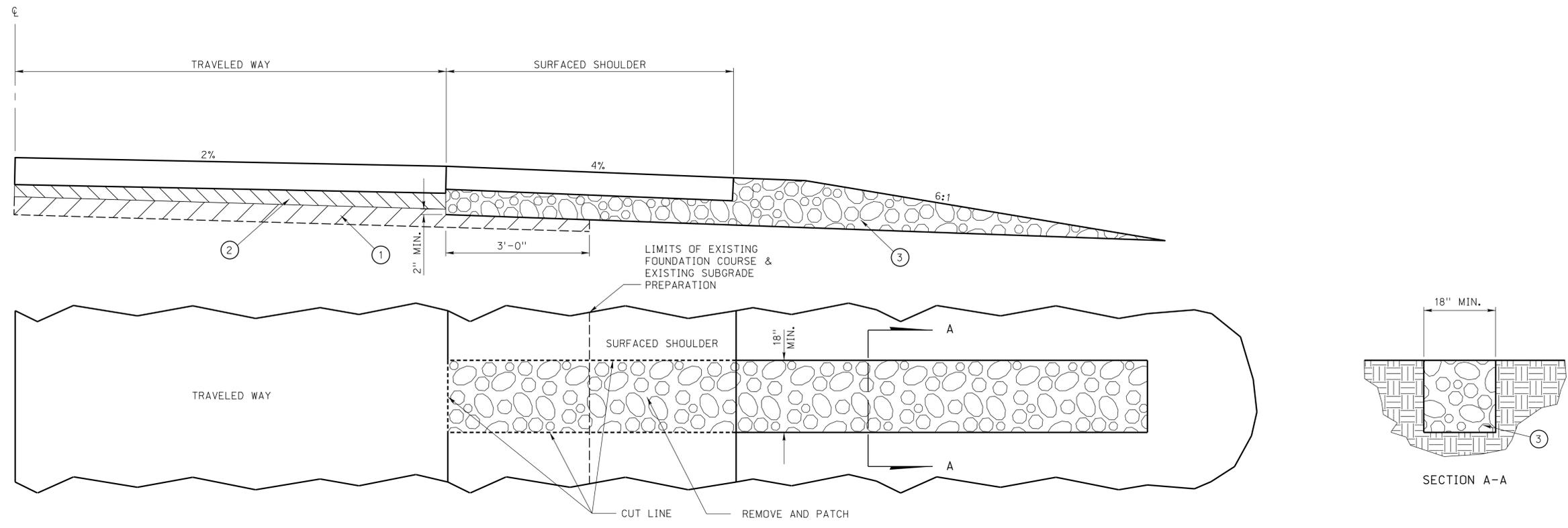
User: dcr13195

Date: 12-JUL-2016 09:42

File: 43103e00.dgn
Scale: 1:100
SHEET 1 OF 2

GENERAL INFORMATION

PROJECT NO.	SHEET NO.
C.N.	



GRANULAR SUB-DRAIN DETAILS

- ① SUBGRADE PREPARATION
- ② FOUNDATION COURSE
- ③ GRANULAR BACKFILL MATERIAL (SUBSIDIARY)

CONSTRUCTION NOTES:

THE GRANULAR SUB-DRAIN SHALL BE CONSTRUCTED WITH POSITIVE DRAINAGE.

GRANULAR SUB-DRAIN SHALL BE INSTALLED AFTER ALL SHOULDERING & EARTH WORK IS COMPLETED AND PRIOR TO SEEDING.

GRANULAR SUB-DRAINS SHALL BE CONSTRUCTED AT INTERVALS OF 200 FT. WHERE THE GRADE IS 1% OR OVER AND AT INTERVALS OF 100 FT. ON GRADES UNDER 1%.

GRANULAR SUB-DRAINS SHALL BE BUILT PERPENDICULAR TO THE CENTER LINE.

BUILD GRANULAR SUB-DRAIN					
STATION	TO	STATION	SIDE	EACH	SPACING
*	-	*	*	*	*

View 2 - RETROFIT

THIS PLAN IS DRAWN AT 100 SCALE.

ROADWAY DESIGN DIVISION

Computer: DRDESIGN218

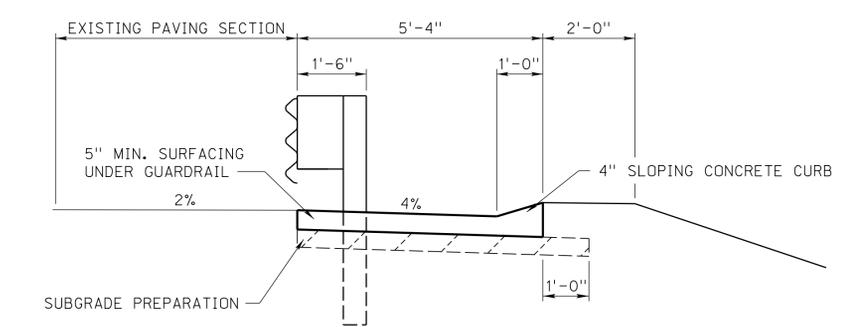
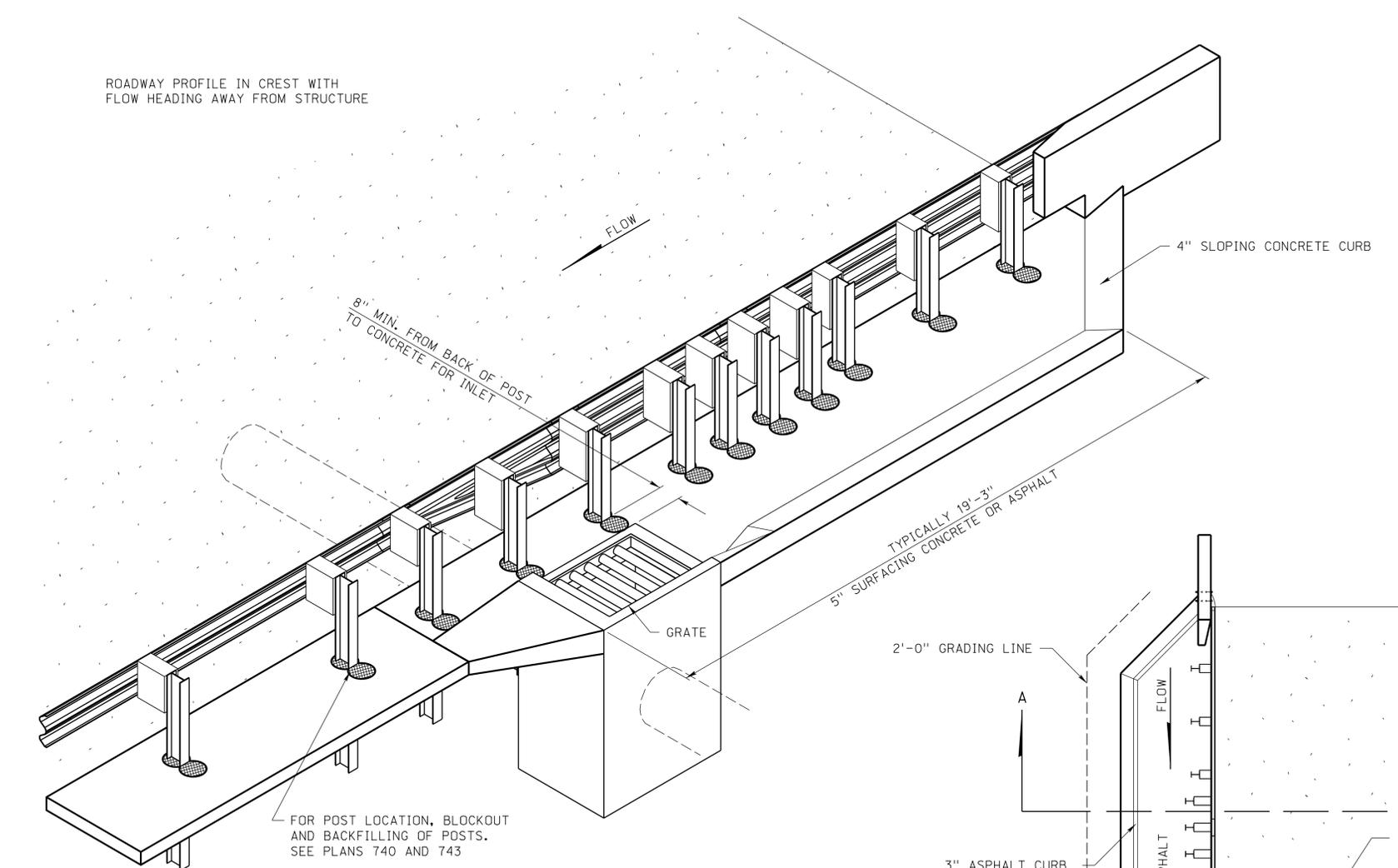
User: dcr13195

Date: 12-JUL-2016 09:42

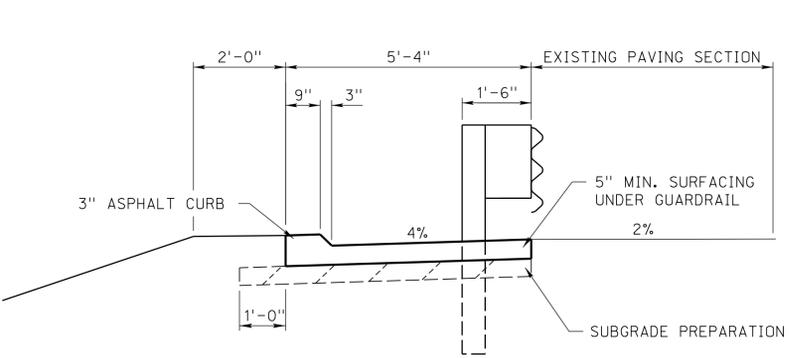
File: 43103e00.dgn
Scale: 1:100
SHEET 2 OF 2

GENERAL INFORMATION

PROJECT NO. SHEET NO.
C.N.

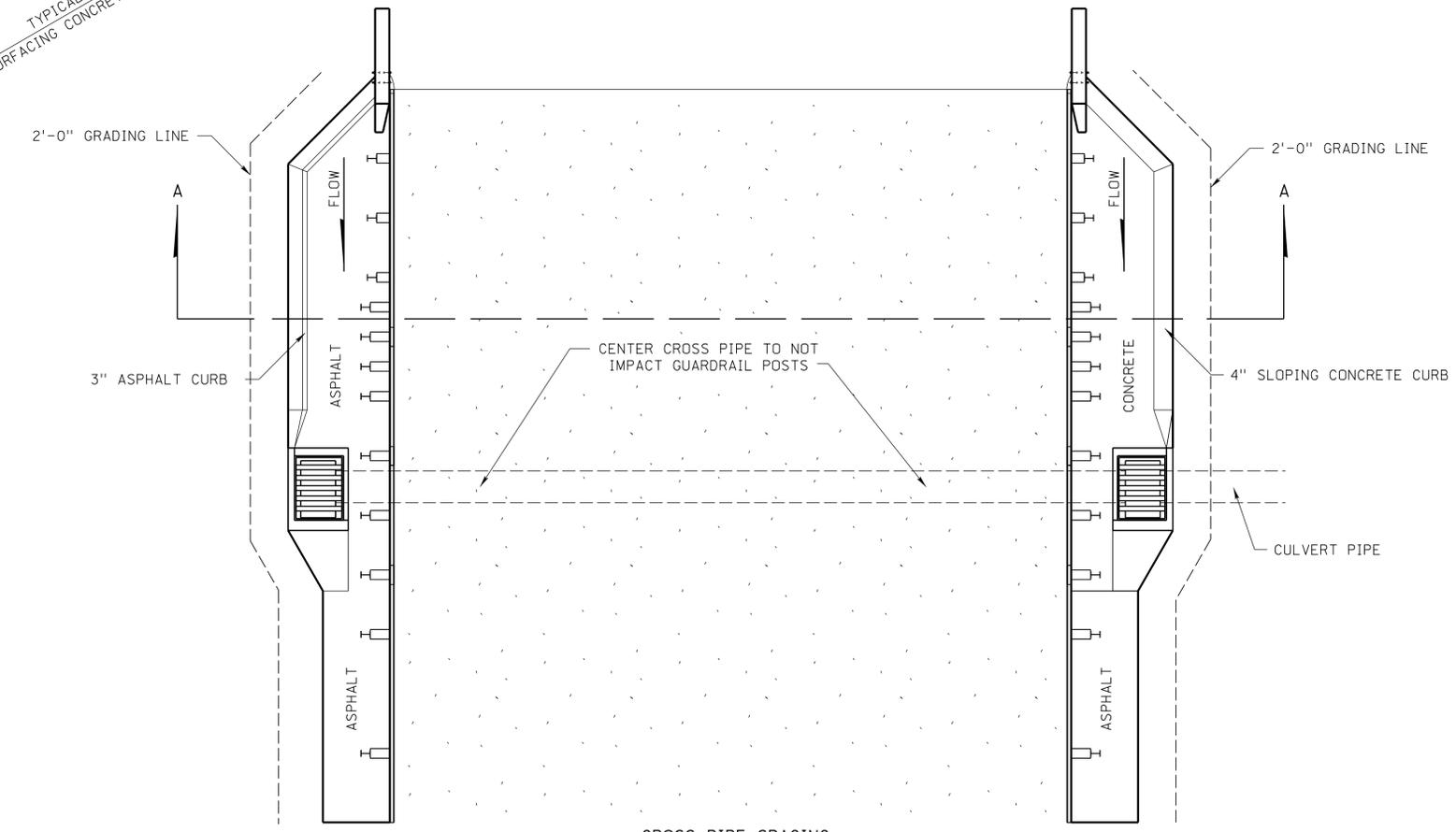


SECTION A-A



SECTION A-A

BRIDGE INLET BEHIND GUARDRAIL FOR CREST CONDITION



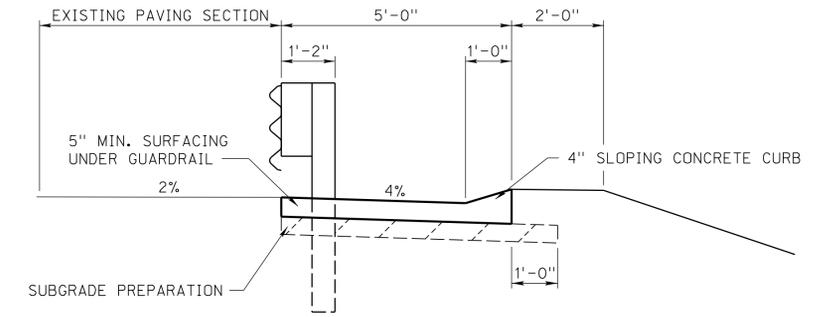
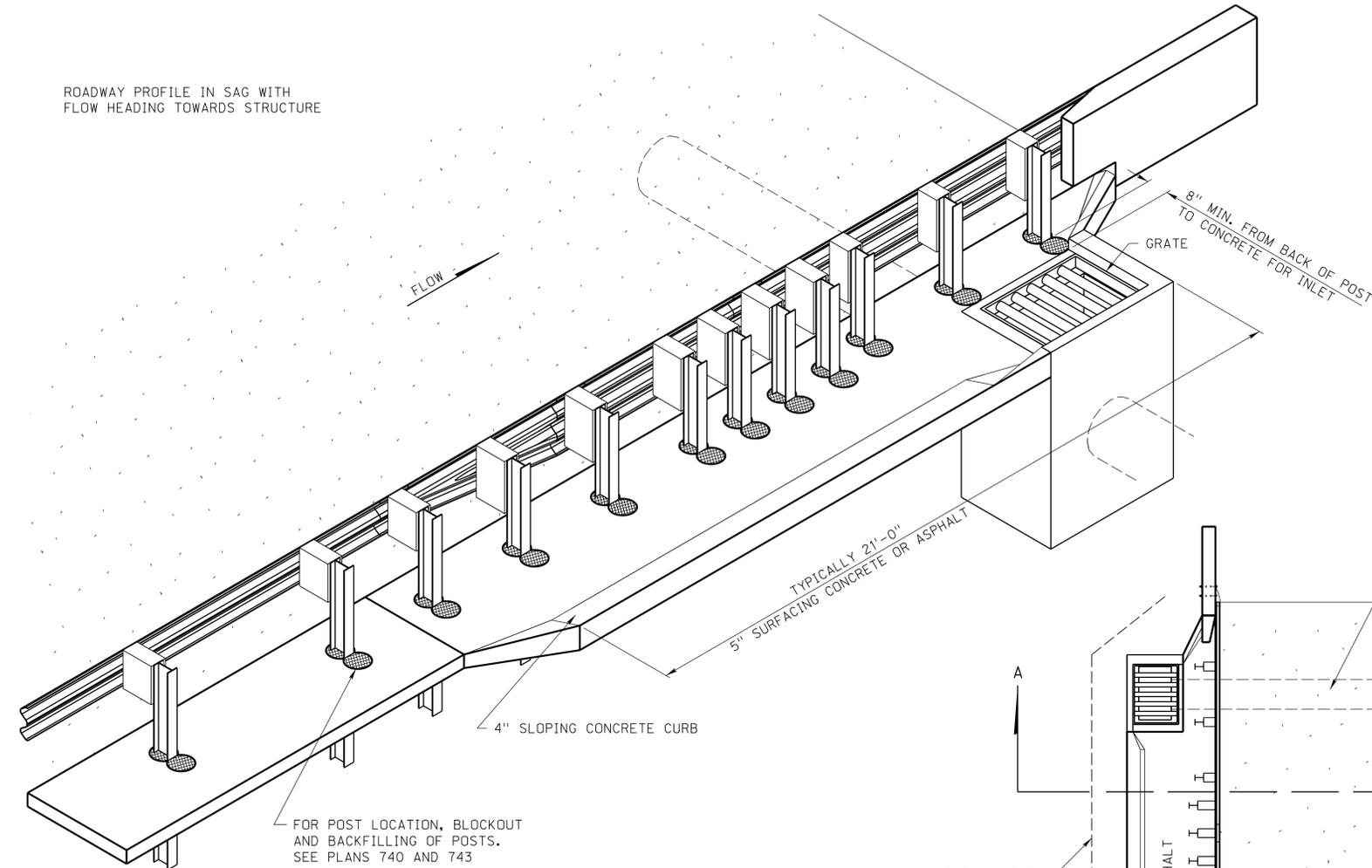
CROSS PIPE SPACING

APPROACH SLAB DRAINAGE INLETS

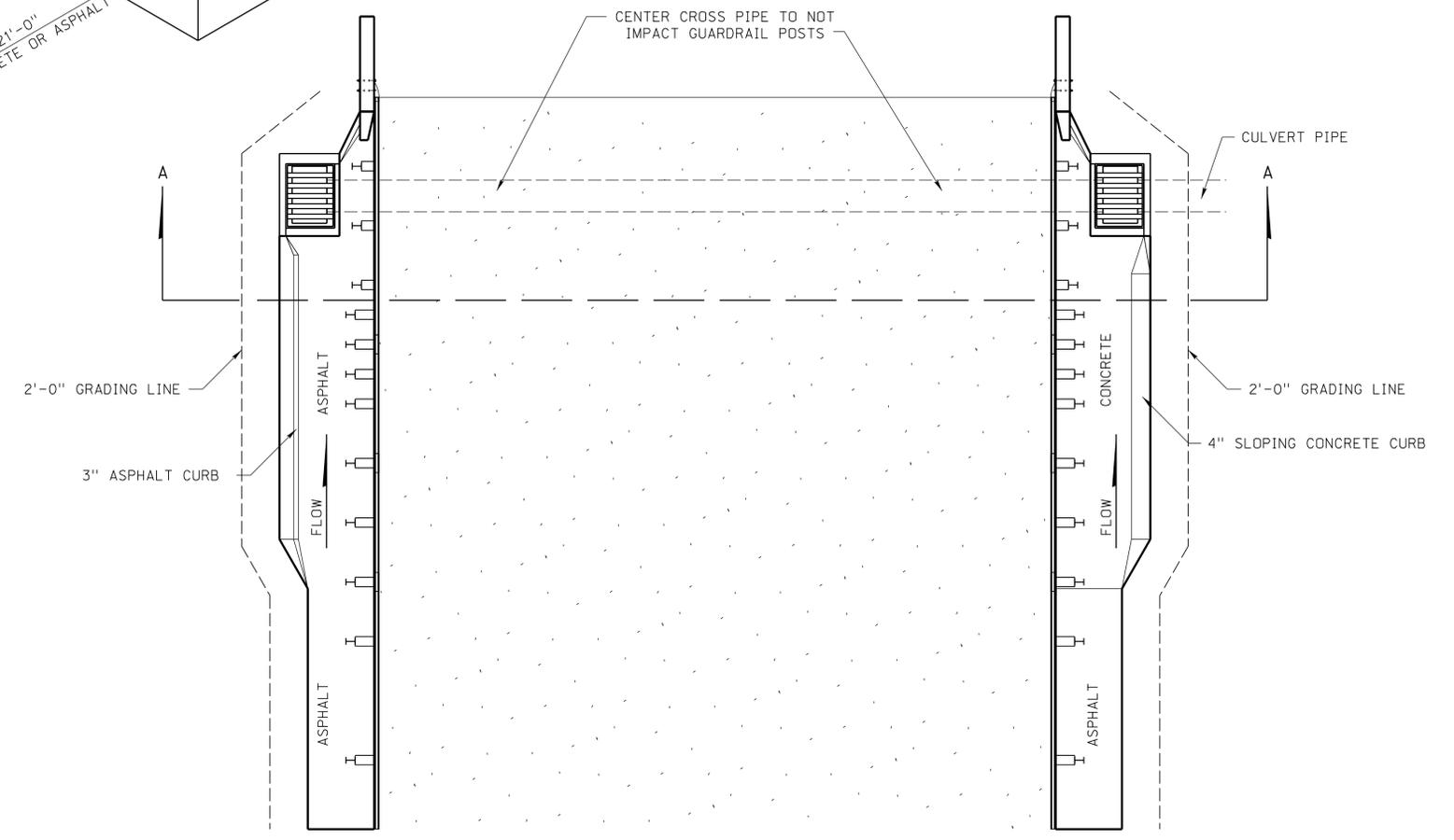
ROADWAY DESIGN DIVISION
 Computer: DRDESIGN218
 User: dcr13195
 Date: 12-JUL-2016 09:42
 File: 43353e02.dgn
 Scale: 1:100
 SHEET 1 OF 2
 4335-3-E-02

GENERAL INFORMATION

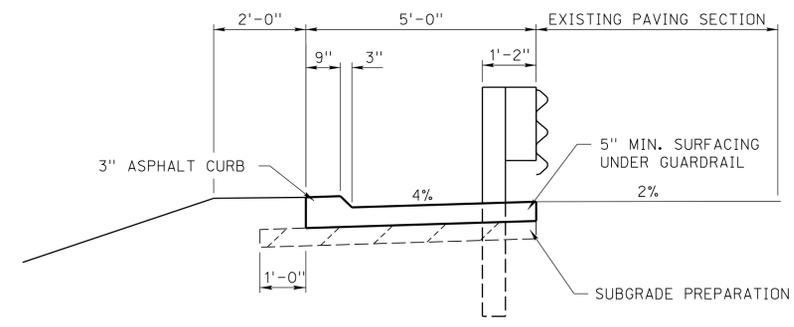
PROJECT NO. SHEET NO.
C.N.



SECTION A-A



CROSS PIPE SPACING



SECTION A-A

BRIDGE INLET BEHIND GUARDRAIL FOR SAG CONDITION

APPROACH SLAB DRAINAGE INLETS

File: 43353e02.dgn
 Scale: 1:100
 SHEET 2 OF 2
 Date: 12-JUL-2016 09:42
 User: dcr13195
 Computer: DRDESIGN218

GENERAL INFORMATION

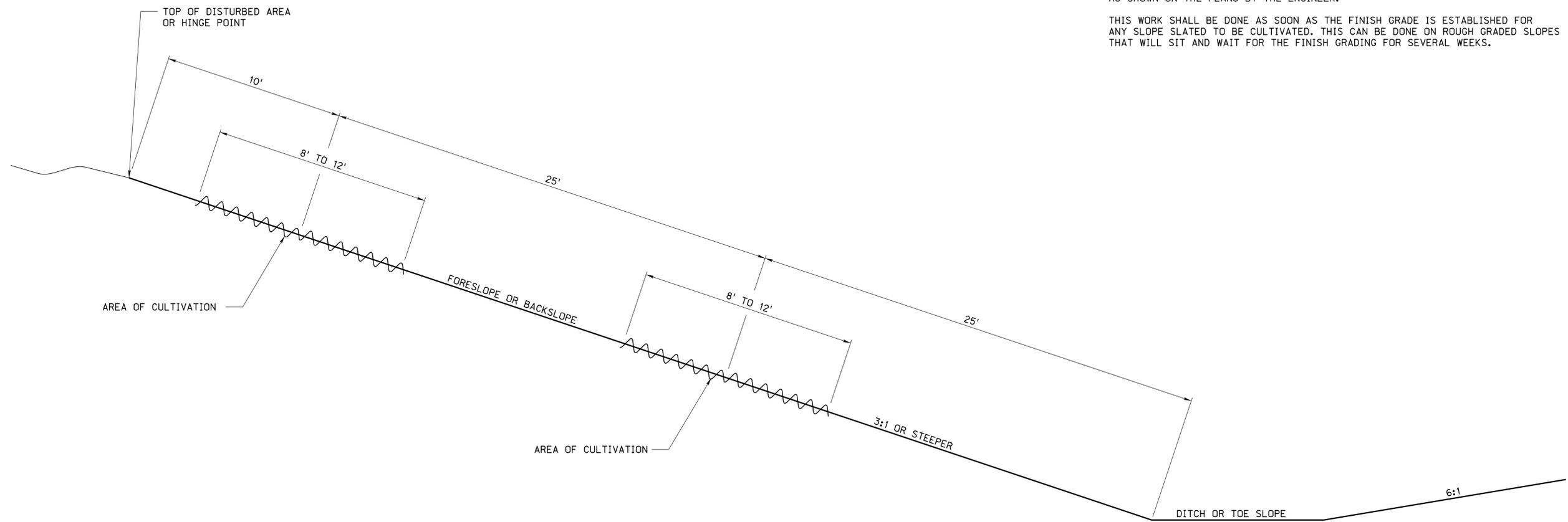
PROJECT NO.	SHEET NO.
C.N.	

NOTES:

A FIELD CULTIVATOR SHALL BE USED TO PRODUCE PARALLEL, ON THE CONTOUR, 8' TO 12' WIDE CULTIVATION STRIPS. THESE AREAS SHALL BE TILLED TO A DEPTH OF THREE (3) TO FOUR (4) INCHES DEEP.

THE CULTIVATED STRIPS SHALL BE DONE ON A SPACING OF 25' ON CENTER AND AS SHOWN ON THE PLANS BY THE ENGINEER.

THIS WORK SHALL BE DONE AS SOON AS THE FINISH GRADE IS ESTABLISHED FOR ANY SLOPE SLATED TO BE CULTIVATED. THIS CAN BE DONE ON ROUGH GRADED SLOPES THAT WILL SIT AND WAIT FOR THE FINISH GRADING FOR SEVERAL WEEKS.



CONTOUR CULTIVATION

ROADWAY DESIGN DIVISION

Computer: DRDESIGN218

User: dcr13195

Date: 12-JUL-2016 09:42

File: 50003e00.dgn
Scale: 1:100
SHEET 1 OF 1 5000-3-E-00