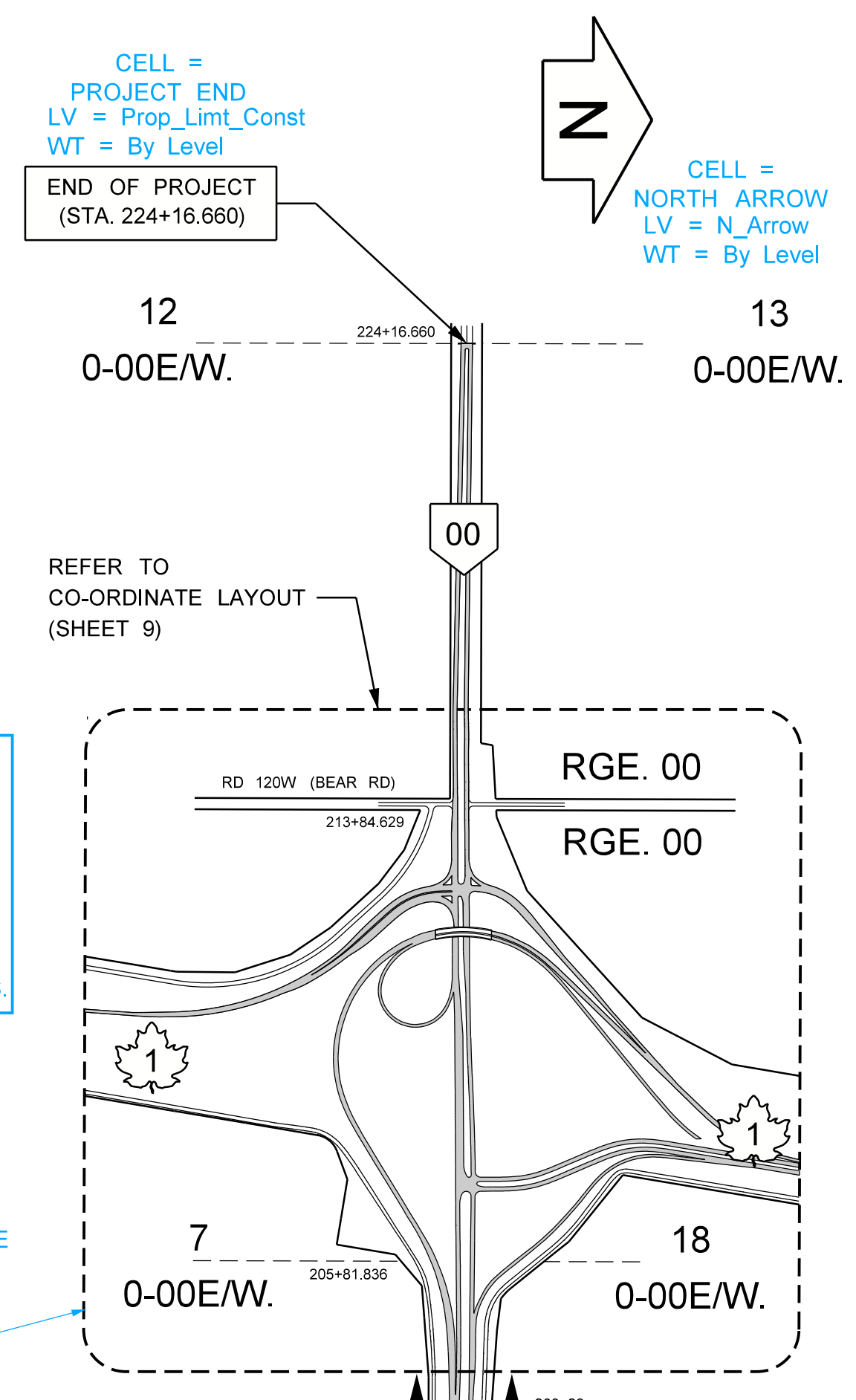
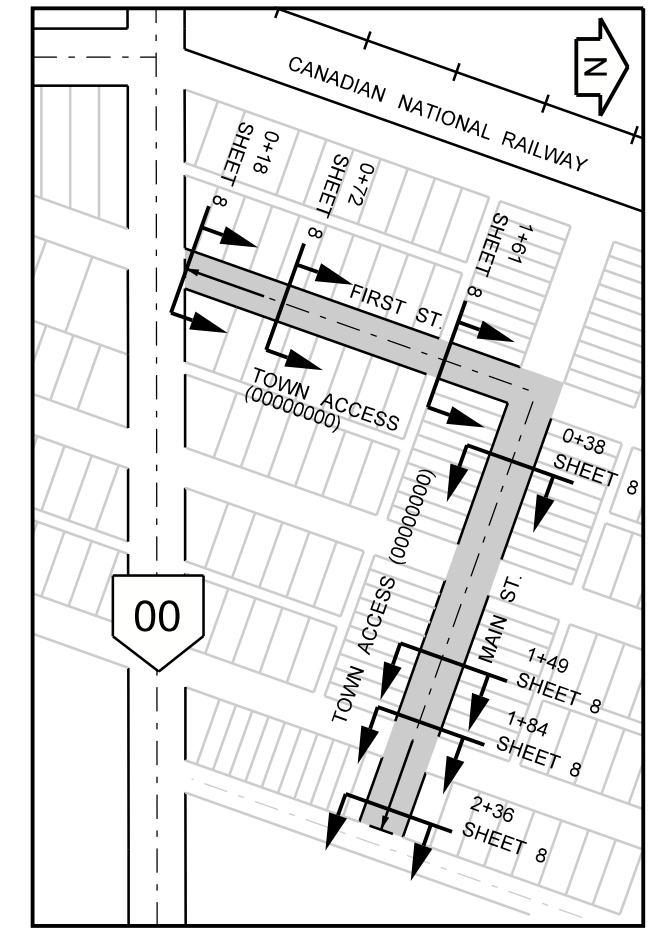
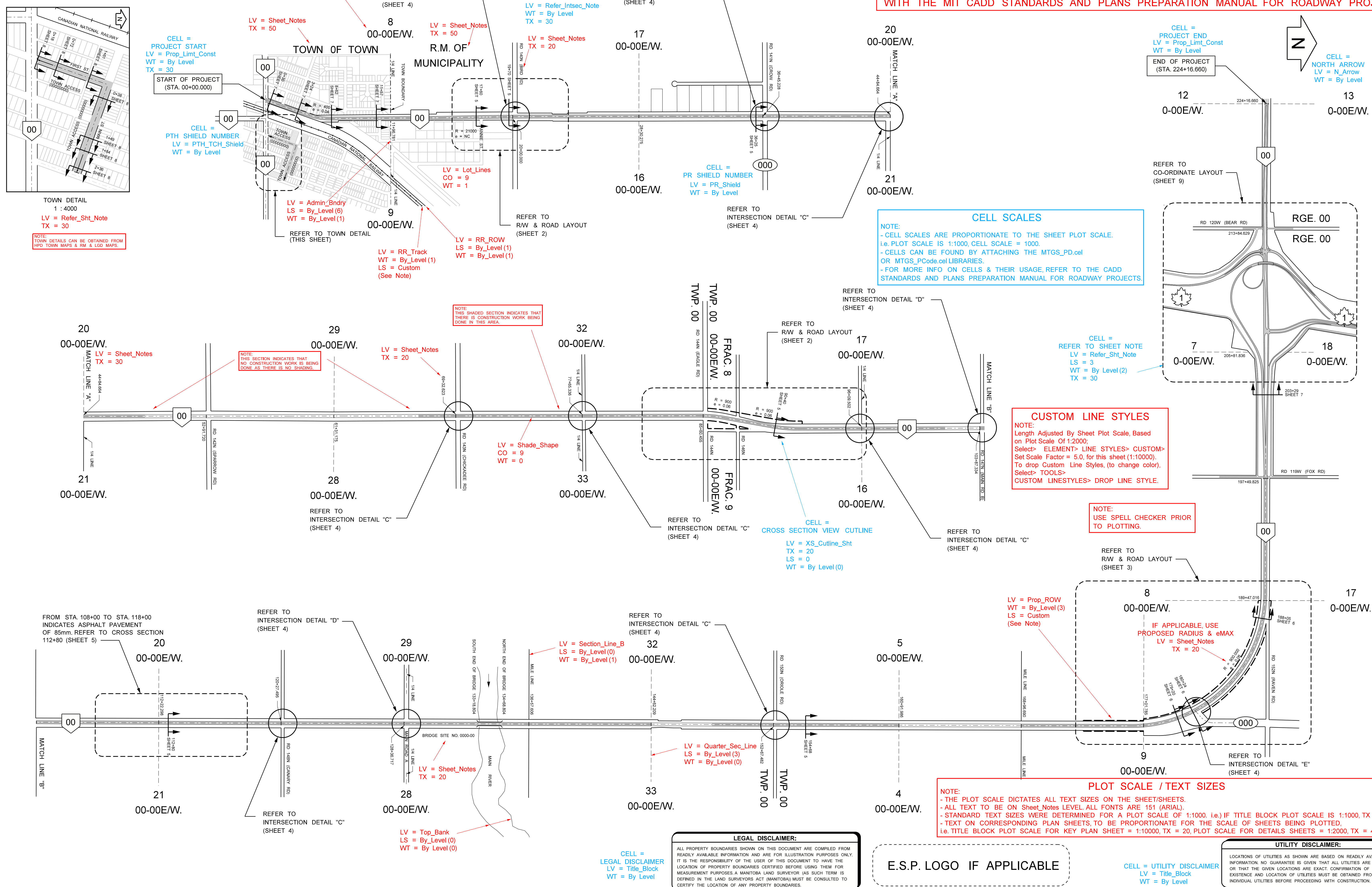


NOTE:
THIS DDD SHOWS CADD DRAFTING STANDARDS ONLY & IS TO BE USED IN CONJUNCTION WITH THE MIT CADD STANDARDS AND PLANS PREPARATION MANUAL FOR ROADWAY PROJECTS



CUSTOM LINE STYLES
NOTE:
Length Adjusted By Sheet Plot Scale, Based on Plot Scale Of 1:2000.
Select> ELEMENT> LINE STYLES> CUSTOM>
Set Scale Factor = 5.0, for this sheet (1:10000).
To drop Custom Line Styles, (to change color),
Select> TOOLS>
CUSTOM LINSTYLES> DROP LINE STYLE.

PLOT SCALE / TEXT SIZES
NOTE:
- THE PLOT SCALE DICTATES ALL TEXT SIZES ON THE SHEET/SHEETS.
- ALL TEXT TO BE ON Sheet/Notes LEVEL, ALL FONTS ARE 151 (ARIAL).
- STANDARD TEXT SIZES WERE DETERMINED FOR A PLOT SCALE OF 1:1000, i.e. IF TITLE BLOCK PLOT SCALE IS 1:1000, TX = 2.
- TEXT ON CORRESPONDING PLAN SHEETS TO BE PROPORTIONATE FOR THE SCALE OF SHEETS BEING PLOTTED.
i.e. TITLE BLOCK PLOT SCALE FOR KEY PLAN SHEET = 1:10000, TX = 20, PLOT SCALE FOR DETAILS SHEETS = 1:2000, TX = 4.

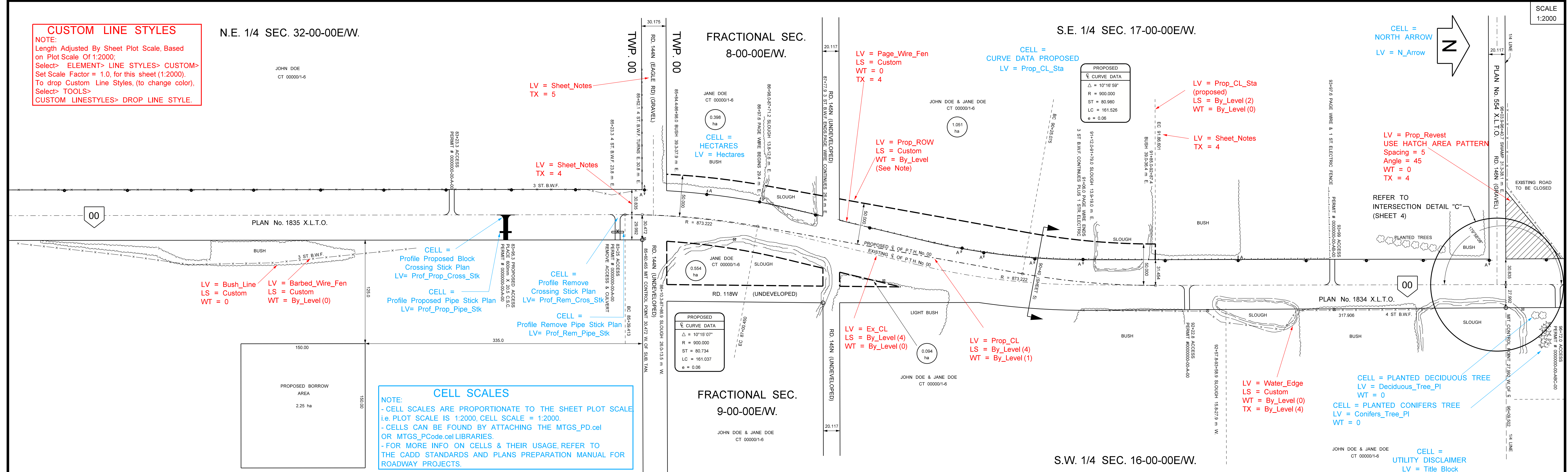
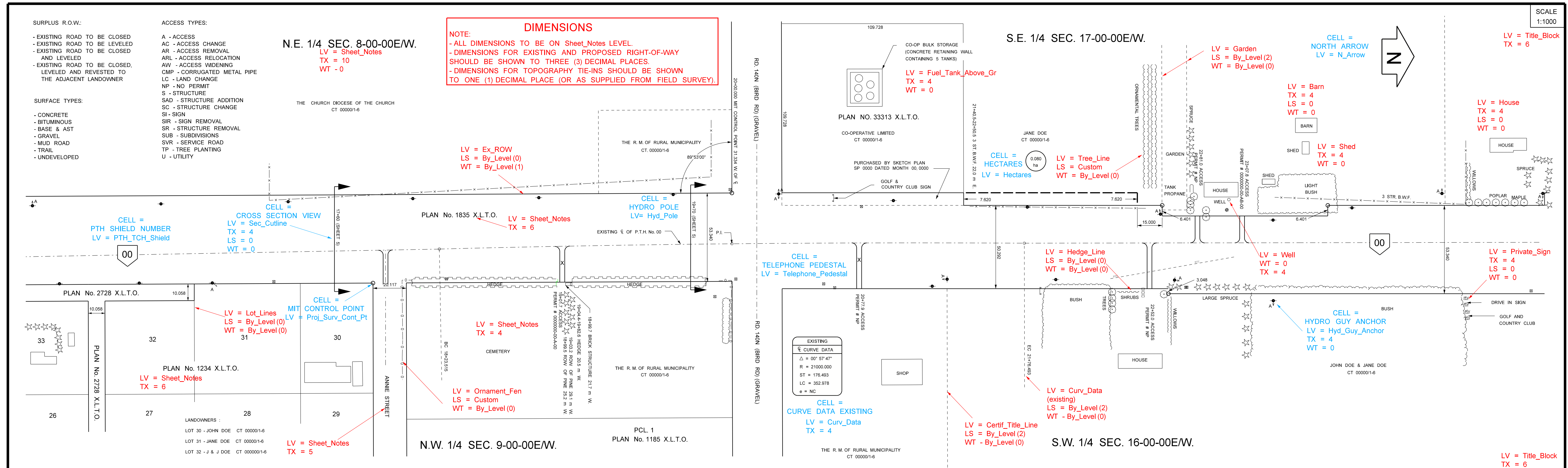
KEY PLAN
RECOMMENDED SCALE IS 1:10 000

DRAFTING STANDARDS MUST CONFORM WITH THE STANDARDS OUTLINED IN "MANITOBA INFRASTRUCTURE AND TRANSPORTATION'S CADD STANDARDS AND PLANS PREPARATION MANUAL FOR ROADWAY PROJECTS" DATED FEBRUARY 2016

THIS DRAWING ILLUSTRATES DRAWING LAYOUT AND DRAFTING STANDARDS ONLY.
ALL DRAWINGS ARE TO BE SUBMITTED ON MYLAR.

DATE	REVISIONS	APPROVED

DATE	REVISIONS	APPROVED	DRAWING SHEETS	BASE DATA INFORMATION/GENERAL NOTES	ENVIRONMENTAL APPROVALS	SEAL	SHEET DESCRIPTION	MANITOBA INFRASTRUCTURE
				BASED ON ORIGINAL PLANS: PROPOSED LOCATION PLAN No. 0000 PROPOSED PROFILE No. 000000 SKETCH PLAN NO'S SP-000 FUNCT. DESIGN STUDY N/A ADD APPROPRIATE PLAN INFORMATION OR CHANGE TO N/A IF NOT APPLICABLE UTM CO-ORDINATE SYSTEM IS NAD83 - ZONE 18 UTM FILE PATH: MT STANDARD ENGINEERING DRAWINGS FOR DDD, 2016.DGN	CHECK ONE BELOW <input checked="" type="checkbox"/> ENVIRONMENTAL CLEARANCE RECEIVED SUBJECT TO MIT ENVIRONMENTAL APPROVAL No. _____ (approval number) <input type="checkbox"/> NO ENVIRONMENTAL CLEARANCE REQUIRED ENVIRONMENTAL INFO REQUIRED PRIOR TO PLOTTING ON MYLAR	DESIGNED BY _____ REGIONAL APPROVAL _____ REVIEWED BY _____ DIRECTOR OF REGIONAL OPERATIONS _____ DATE: _____	KEY PLAN & PAVING LIMITS CELL = DDD LV = Title_Block WT = By Level	MANITOBA INFRASTRUCTURE PROPOSED DETAILED DESIGN DRAWINGS OF P.T.H. No. 00 (P.T.H. No. 00 TO 0.0km WEST OF P.T.H. No. 00) BASE AND BITUMINOUS PAVEMENT PREPARED BY _____ DATE DRAWN _____ SCALE _____ PLAN No. _____ REGION No. 00 12 AUGUST 2016 1:10000 1 OF 9



PROPOSED RIGHT-OF-WAY PLAN, RECOMMENDED SCALES AS PER LOCATION PLAN STANDARDS.

DRAFTING STANDARDS MUST CONFORM WITH THE STANDARDS OUTLINED IN "MANITOBA INFRASTRUCTURE AND TRANSPORTATION'S CADD STANDARDS AND PLANS PREPARATION MANUAL FOR ROADWAY PROJECTS" DATED FEBRUARY 2016

PROPERTIES DESCRIBED BY C.T. SHOULD BE SHOWN DASHED (LC=2) PROPERTIES DESCRIBED BY REGISTERED PLAN SHOULD BE SHOWN SOLID (LC=0) WITH LOT No. BLOCK No. PLAN No. & L.T.O. No. SHOWN

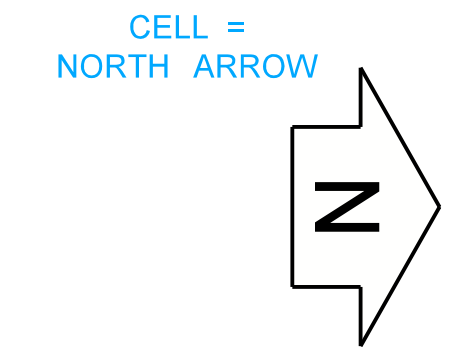
ON ALL H.M.Q. AND CROWN PROPERTIES SHOWN, THE GOVERNING AUTHORITY SHOULD BE INDICATED

ONLY THE APPROVED ALTERNATIVE ROUTE IS SHOWN. THIS INCLUDES PROPOSED RIGHT-OF-WAY, RELATED TEXT AND DIMENSIONING.

THIS DRAWING ILLUSTRATES DRAWING LAYOUT AND DRAFTING STANDARDS ONLY.

ALL DRAWINGS ARE TO BE SUBMITTED ON MYLAR.

DATE		REVISIONS		APPROVED	
LEGEND					
CENTRE LINE OF ROAD		EXISTING		PROPOSED	
RIGHT-OF-WAY		EXISTING		TO BE REMOVED	
RIGHT-OF-WAY DIMENSIONS		39.175			
MANITOBA INFRASTRUCTURE AND TRANSPORTATION (MIT) CONTROL POINT		P.I.V.			
HEDGE		P.I.V.			
PRIVATE SIGN		P.I.V.			
CULVERT		P.I.V.			
ACCESS		P.I.V.			
TREES		EXISTING		PROPOSED	
HYDRO POLE		EXISTING		PROPOSED	
HYDRO POLE w/ ANCHOR		EXISTING		PROPOSED	
TELEPHONE PEDESTAL		EXISTING		PROPOSED	
FENCE LINE		EXISTING		PROPOSED	
BITUMINOUS PAVEMENT		EXISTING		PROPOSED	
GRAVEL SURFACE		EXISTING		PROPOSED	
ROAD TO BE CLOSED		EXISTING		PROPOSED	
BASE DATA INFORMATION/GENERAL NOTES					
BASED ON ORIGINAL PLANS: PROPOSED LOCATION PLAN No. 0000 PROPOSED PROFILE No. 000000 SKETCH PLAN No. SP-000 FUNCT. DESIGN STUDY N/A					
ADD APPROPRIATE PLAN INFORMATION OR CHANGE TO N/A IF NOT APPLICABLE					
UTM CO-ORDINATE SYSTEM IS NAD83 - ZONE 14 OR 15					
FILE PATH: MIT STANDARD ENGINEERING DRAWINGS FOR DDD_2016.DGN					
ENVIRONMENTAL APPROVALS					
CHECK ONE BELOW					
<input checked="" type="checkbox"/> ENVIRONMENTAL CLEARANCE RECEIVED SUBJECT TO MIT ENVIRONMENTAL APPROVAL No. (approval number)					
<input type="checkbox"/> NO ENVIRONMENTAL CLEARANCE REQUIRED					
ENVIRONMENTAL INFO REQUIRED PRIOR TO PLOTTING ON MYLAR					
SHEET DESCRIPTION					
PROPOSED RIGHT-OF-WAY & ROAD LAYOUT					
CELL = DDD Sheets LV = Title_Block					
MANITOBA INFRASTRUCTURE					
PROPOSED DETAILED DESIGN DRAWINGS OF P.T.H. No. 00 (P.T.H. No. 00 TO 0.0km WEST OF P.T.H. No. 00) BASE AND BITUMINOUS PAVEMENT					
PREPARED BY		DATE DRAWN		SCALE	
REGION No. 00		12 AUGUST 2016		AS SHOWN	
SHEET		2 OF 9		PLAN No.	
DATE: 12 AUGUST 2016					
REGION No. 00					
SCALE: AS SHOWN					
SHEET: 2 OF 9					
PLAN No. ISSUED BY HPD					



- SURPLUS R.O.W.:**
- EXISTING ROAD TO BE CLOSED
 - EXISTING ROAD TO BE LEVELLED
 - EXISTING ROAD TO BE CLOSED AND LEVELED
 - EXISTING ROAD TO BE CLOSED, LEVELED AND REVESTED TO THE ADJACENT LANDOWNER
- ACCESS TYPES:**
- A - ACCESS
 - AC - ACCESS CHANGE
 - AR - ACCESS REMOVAL
 - ARL - ACCESS RELOCATION
 - AW - ACCESS WIDENING
 - CMP - CORRUGATED METAL PIPE
 - LC - LAND CHANGE
 - NP - NO PERMIT
 - S - STRUCTURE
 - SAD - STRUCTURE ADDITION
 - SC - STRUCTURE CHANGE
 - SI - SIGN
 - SR - SIGN REMOVAL
 - SR - STRUCTURE REMOVAL
 - SUB - SUBDIVISIONS
 - SVR - SERVICE ROAD
 - TP - TREE PLANTING
 - U - UTILITY
- SURFACE TYPES:**
- CONCRETE
 - BITUMINOUS
 - BASE & AST
 - GRAVEL
 - MUD ROAD
 - TRAIL
 - UNDEVELOPED

TEXT SIZES

NOTE:

- ALL TEXT TO BE ON Sheet_Notes LEVEL.
- TEXT SIZES FOLLOW SAME FORMAT AS SHEET 2.

DIMENSIONS

NOTE:

- ALL DIMENSIONS TO BE ON Sheet_Notes LEVEL.
- DIMENSIONS FOR EXISTING AND PROPOSED RIGHT-OF-WAY SHOULD BE SHOWN TO THREE (3) DECIMAL PLACES.
- DIMENSIONS FOR TOPOGRAPHY TIE-INS SHOULD BE SHOWN TO ONE (1) DECIMAL PLACE (OR AS SUPPLIED FROM FIELD NOTES).

CUSTOM LINE STYLES

NOTE:

Length Adjusted By Sheet Plot Scale, Based on Plot Scale Of 1:2000.

Select< ELEMENT> LINE STYLES> CUSTOM> Set Scale Factor = 1.0, for this sheet (1:2000). To drop Custom Line Styles, (to change color), Select< TOOLS> CUSTOM LINSTYLES> DROP LINE STYLE.

S.E. 1/4 SEC. 8-00-00E/W.

CELL SCALES

NOTE:

- CELL SCALES ARE PROPORTIONATE TO THE SHEET PLOT SCALE i.e. PLOT SCALE IS 1:1000, CELL SCALE = 1:1000.
- CELLS CAN BE FOUND BY ATTACHING THE MTGS_PD.cel OR MTGS_PCCode.cel LIBRARIES.
- FOR MORE INFO ON CELLS & THEIR USAGE, REFER TO THE CADD STANDARDS AND PLANS PREPARATION MANUAL FOR ROADWAY PROJECTS.

LV = Quarter_Sec_Line
LS = By_Level(3)
WT = By_Level(0)

N.E. 1/4 SEC. 8-00-00E/W.

CELL = 1.782 ha
LV = Hectares
CT 000001-6

CELL = CURVE DATA PROPOSED

PROPOSED CURVE DATA	
Δ	50°00'55"
R	900.000
ST	873.464
LC	1371.901
α	0.05

ALL TEXT TO BE ON Sheet_Notes

LV = Prop_ROW
LS = Custom
WT = By_Level

NOTE: PROPOSED ROW TO BE ACQUIRED BY LOCATION PLAN NO. 7965

CELL = PTH_SHIELD_NUMBER
LV = PTH_TCH_Shield
TX = 4

S.E. 1/4 SEC. 17-00-00E/W.

S.W. 1/4 SEC. 9-00-00E/W.

N.W. 1/4 SEC. 9-00-00E/W.

CELL = LEGAL DISCLAIMER
LV = Title_Block

CELL = UTILITY DISCLAIMER
LV = Title_Block

LEGAL DISCLAIMER:

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UTILITY DISCLAIMER:

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PROPOSED RIGHT-OF-WAY PLAN, RECOMMENDED SCALES AS PER LOCATION PLAN STANDARDS.

DRAFTING STANDARDS MUST CONFORM WITH THE STANDARDS OUTLINED IN 'MANITOBA INFRASTRUCTURE AND TRANSPORTATION'S CADD STANDARDS AND PLANS PREPARATION MANUAL FOR ROADWAY PROJECTS,' DATED FEBRUARY 2016

PROPERTIES DESCRIBED BY C.T. SHOULD BE SHOWN DASHED (LC=2) PROPERTIES DESCRIBED BY REGISTERED PLAN SHOULD BE SHOWN SOLID (LC=0) WITH LOT No. BLOCK No. PLAN No. & L.T.O. No. SHOWN

ON ALL H.M.Q. AND CROWN PROPERTIES SHOWN, THE GOVERNING AUTHORITY SHOULD BE INDICATED

ONLY THE APPROVED ALTERNATIVE ROUTE IS SHOWN. THIS INCLUDES PROPOSED RIGHT-OF-WAY, RELATED TEXT AND DIMENSIONING.

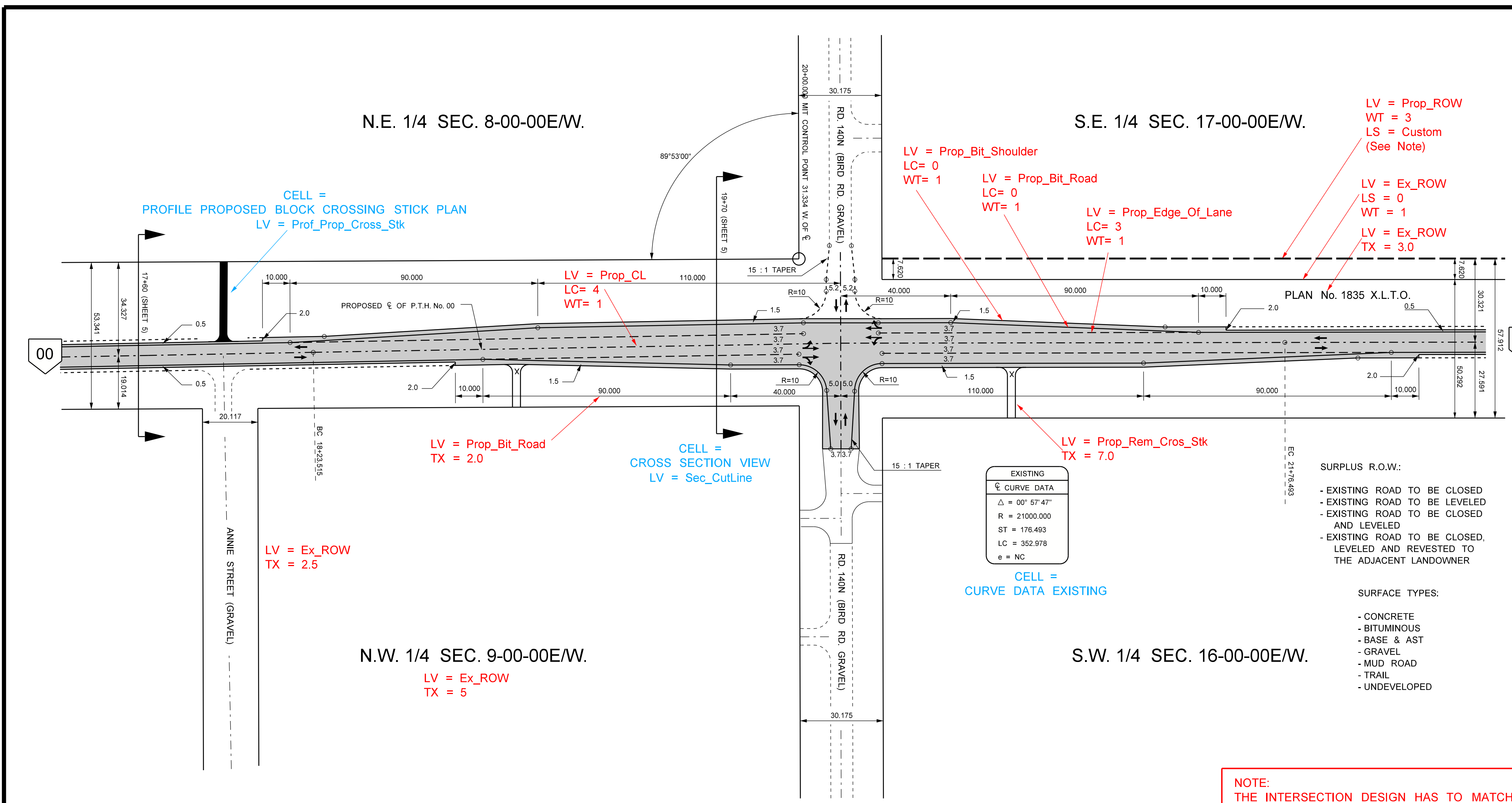
THIS DRAWING ILLUSTRATES DRAWING LAYOUT AND DRAFTING STANDARDS ONLY.

ALL DRAWINGS ARE TO BE SUBMITTED ON MYLAR.

DATE	REVISIONS	APPROVED

DATE	REVISIONS	APPROVED	LEGEND	BASE DATA INFORMATION/GENERAL NOTES	ENVIRONMENTAL APPROVALS	SEAL	SHEET DESCRIPTION	MANITOBA INFRASTRUCTURE																					
			<table border="0"> <tr> <td>EXISTING</td> <td>PROPOSED</td> <td>TO BE REMOVED</td> </tr> <tr> <td>CENTRE LINE OF ROAD</td> <td>---</td> <td>---</td> </tr> <tr> <td>RIGHT-OF-WAY</td> <td>---</td> <td>---</td> </tr> <tr> <td>RIGHT-OF-WAY DIMENSIONS</td> <td>← 30.175 →</td> <td> </td> </tr> <tr> <td>MANITOBA INFRASTRUCTURE and TRANSPORTATION (MIT) CONTROL POINT</td> <td>○</td> <td> </td> </tr> <tr> <td>BUSH & SWAMP</td> <td> </td> <td> </td> </tr> <tr> <td>ACCESSES</td> <td> </td> <td> </td> </tr> </table>	EXISTING	PROPOSED	TO BE REMOVED	CENTRE LINE OF ROAD	---	---	RIGHT-OF-WAY	---	---	RIGHT-OF-WAY DIMENSIONS	← 30.175 →		MANITOBA INFRASTRUCTURE and TRANSPORTATION (MIT) CONTROL POINT	○		BUSH & SWAMP			ACCESSES			<p>BASED ON ORIGINAL PLANS:</p> <p>PROPOSED LOCATION PLAN NO. 7965</p> <p>PROPOSED PROFILE NO. 000004</p> <p>SKETCH PLAN NO. N/A</p> <p>FUNC. DESIGN STUDY N/A</p> <p>ADD APPROPRIATE PLAN INFORMATION OR CHANGE TO N/A IF NOT APPLICABLE</p> <p>UTM CO-ORDINATE SYSTEM IS NAD83 - ZONE 14 OR 15</p> <p>FILE PATH: MIT STANDARD ENGINEERING DRAWINGS FOR DDD_2016.DGN</p>	<p>CHECK ONE BELOW</p> <p><input checked="" type="checkbox"/> ENVIRONMENTAL CLEARANCE RECEIVED SUBJECT TO MIT ENVIRONMENTAL APPROVAL No. _____ (approval number)</p> <p><input type="checkbox"/> NO ENVIRONMENTAL CLEARANCE REQUIRED</p> <p>ENVIRONMENTAL INFO REQUIRED PRIOR TO PLOTTING ON MYLAR</p>	<p>DESIGNED BY _____</p> <p>REVIEWED BY _____</p> <p>REGIONAL APPROVAL _____</p> <p>DIRECTOR OF REGIONAL OPERATIONS _____</p> <p>DATE _____</p>	<p>PROPOSED RIGHT-OF-WAY & ROAD LAYOUT</p> <p>CELL = DDD Sheets LV = Title_Block</p>	<p>MANITOBA INFRASTRUCTURE</p> <p>PROPOSED DETAILED DESIGN DRAWINGS OF</p> <p>P.T.H. No. 00</p> <p>(P.T.H. No. 00 TO 0.0km WEST OF P.T.H. No. 00)</p> <p>BASE AND BITUMINOUS PAVEMENT</p> <p>PREPARED BY _____ DATE DRAWN _____ SCALE _____ SHEET _____ PLAN No. _____</p> <p>REGION No. 00 12 AUGUST 2016 1:2000 3 OF 9</p>
EXISTING	PROPOSED	TO BE REMOVED																											
CENTRE LINE OF ROAD	---	---																											
RIGHT-OF-WAY	---	---																											
RIGHT-OF-WAY DIMENSIONS	← 30.175 →																												
MANITOBA INFRASTRUCTURE and TRANSPORTATION (MIT) CONTROL POINT	○																												
BUSH & SWAMP																													
ACCESSES																													

PLAN No. ISSUED BY HPD



N.E. 1/4 SEC. 8-00-00E/W.

S.E. 1/4 SEC. 17-00-00E/W.

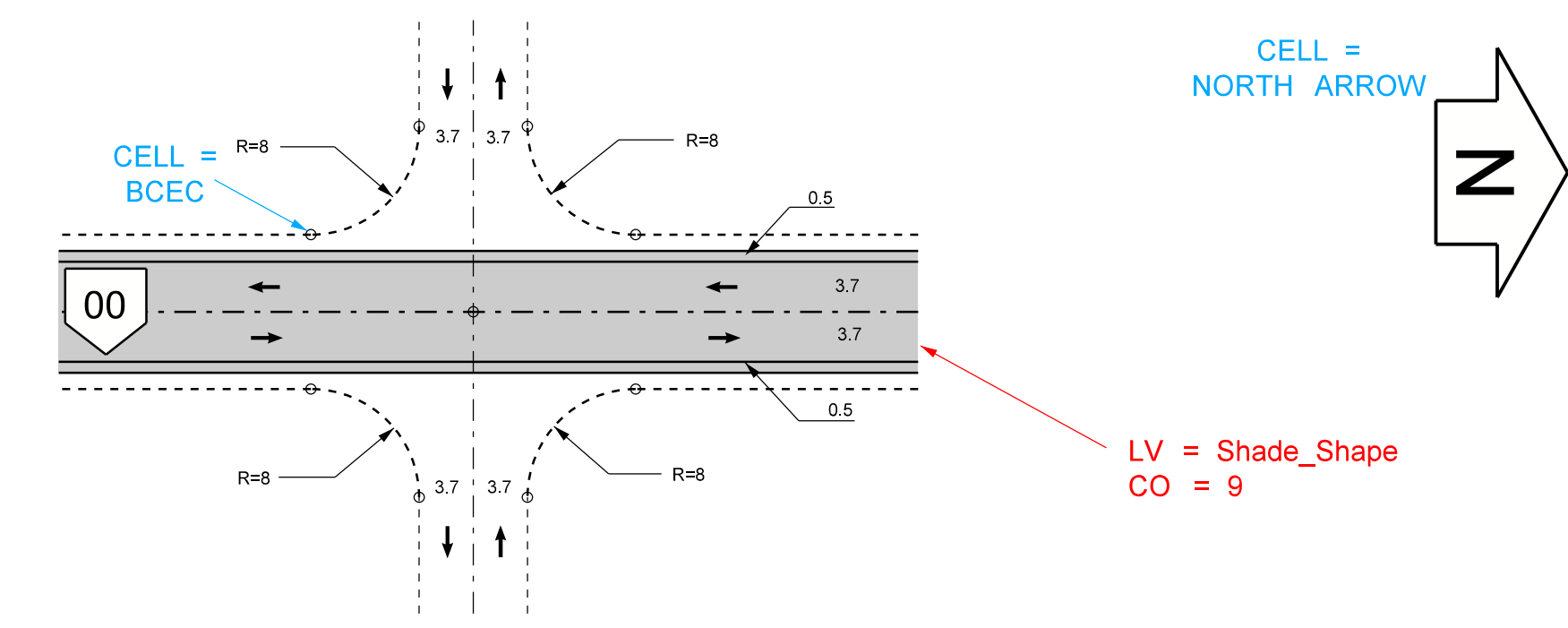
N.W. 1/4 SEC. 9-00-00E/W.

S.W. 1/4 SEC. 16-00-00E/W.

4-WAY BY-PASS INTERSECTION DETAIL "A"
(JCT. OF P.T.H. No. 00 & MUNICIPAL ROAD)

SCALE 1:1000
LV = Sheet_Notes TX = 5
LV = Sheet_Notes TX = 7

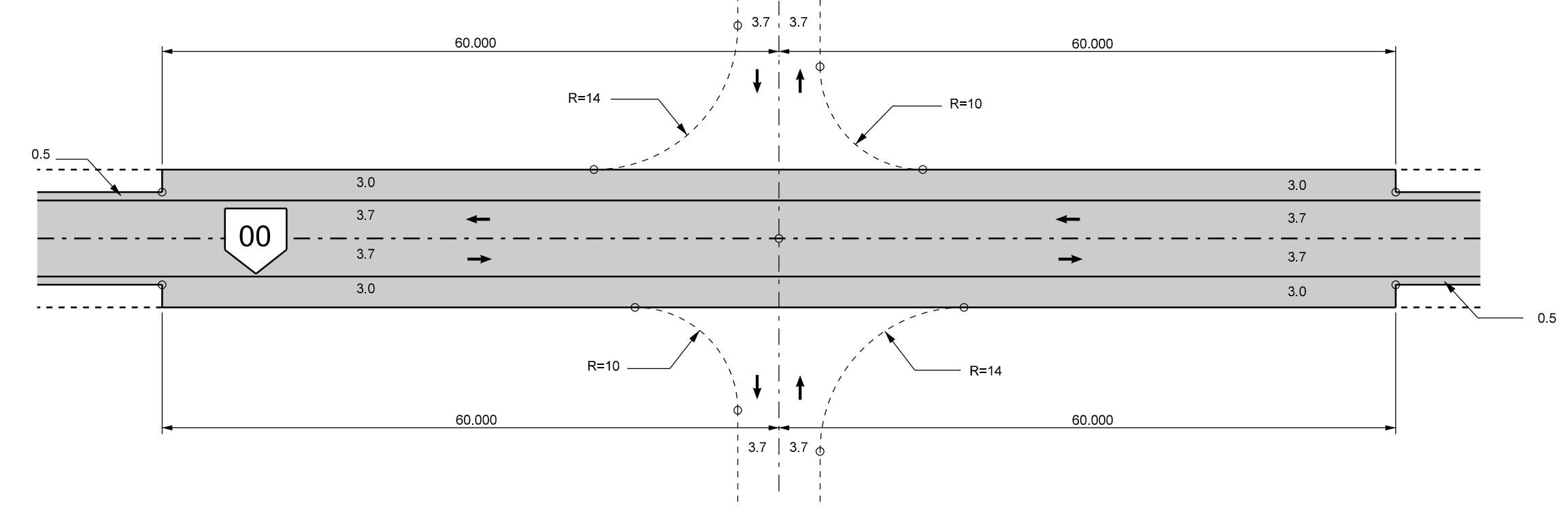
CUSTOM LINE STYLES
NOTE:
Length Adjusted By Sheet Plot Scale, Based on Plot Scale Of 1:2000.
Select> ELEMENT> LINE STYLES> CUSTOM> Set Scale Factor = 1.0, for this sheet (1:2000).
To drop Custom Line Styles, (to change color), Select> TOOLS> CUSTOM LINESTYLES> DROP LINE STYLE.



INTERSECTION DETAIL "C"

(TYPICAL MUNICIPAL ROAD)

SCALE 1:500



INTERSECTION DETAIL "D"

(HIGHER A.A.D.T. MUNICIPAL ROAD)

SCALE 1:500

NOTE:
THE INTERSECTION DESIGN HAS TO MATCH THE STANDARDS IN THE "WARRANTS AND STANDARDS FOR INTERSECTION TREATMENTS OF RURAL TWO-LANE HIGHWAYS DESIGN GUIDE"

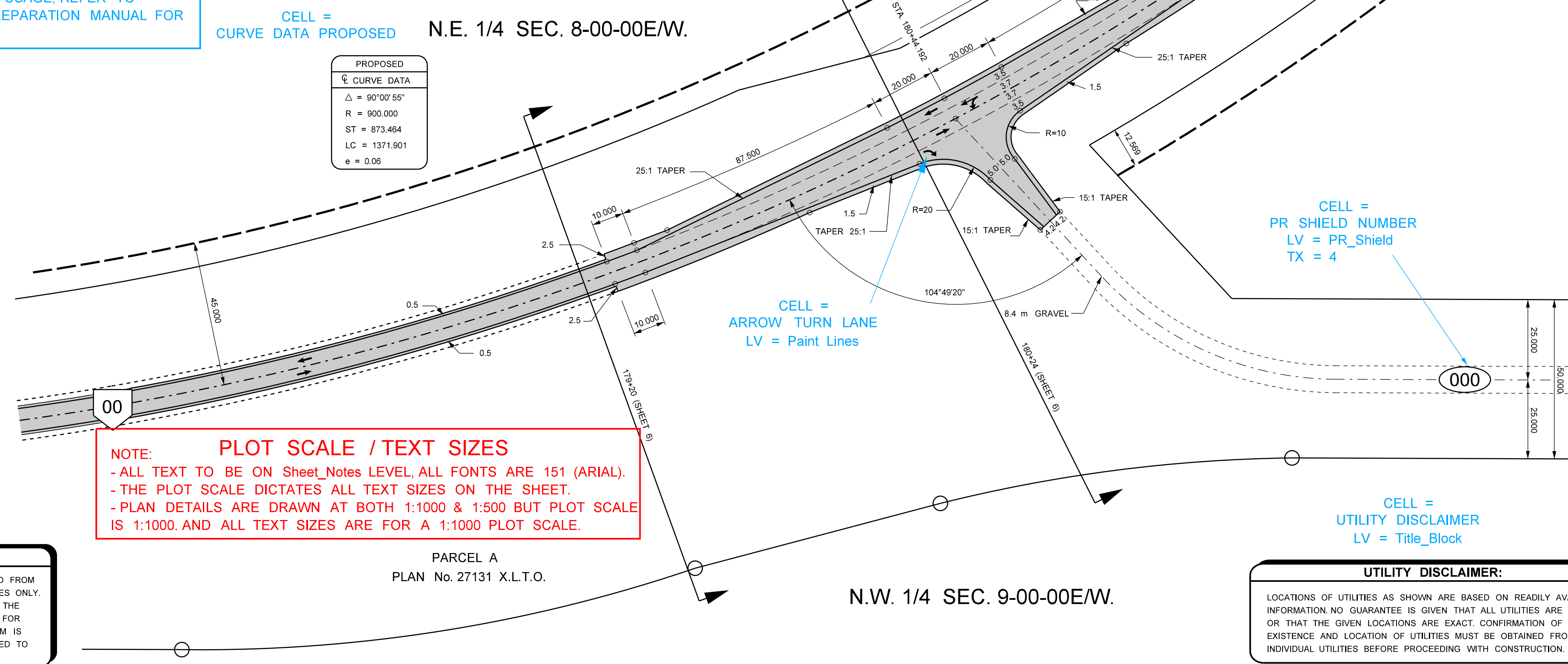
DIMENSIONS
NOTE:
- ALL DIMENSIONS TO BE ON Sheet_Notes LEVEL.
- DIMENSIONS FOR EXISTING AND PROPOSED RIGHT-OF-WAY SHOULD BE SHOWN TO THREE (3) DECIMAL PLACES.
- DIMENSIONS FOR TOPOGRAPHY TIE-INS SHOULD BE SHOWN TO ONE (1) DECIMAL PLACE (OR AS SUPPLIED FROM FIELD SURVEY).

CELL SCALES
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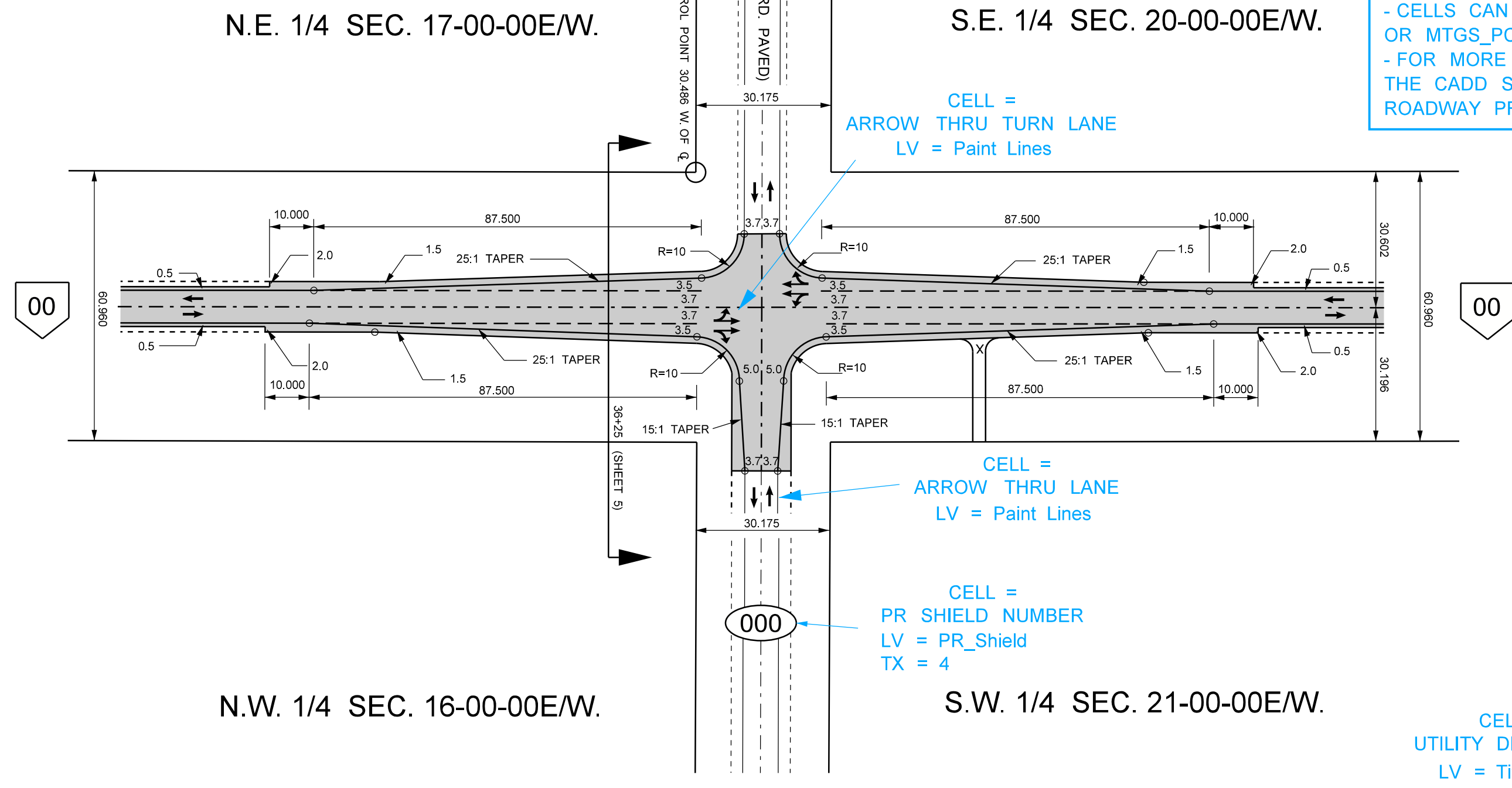
WIDENED INTERSECTION DETAIL "E"

(JCT. OF P.T.H. No. 00 & P.R. No. 000)

SCALE 1:1000



PLOT SCALE / TEXT SIZES
NOTE:
- ALL TEXT TO BE ON Sheet_Notes LEVEL, ALL FONTS ARE 151 (ARIAL).
- THE PLOT SCALE DICTATES ALL TEXT SIZES ON THE SHEET.
- PLAN DETAILS ARE DRAWN AT BOTH 1:1000 & 1:500 BUT PLOT SCALE IS 1:1000, AND ALL TEXT SIZES ARE FOR A 1:1000 PLOT SCALE.



N.E. 1/4 SEC. 17-00-00E/W.

S.E. 1/4 SEC. 20-00-00E/W.

N.W. 1/4 SEC. 16-00-00E/W.

S.W. 1/4 SEC. 21-00-00E/W.

4-WAY WIDENED INTERSECTION DETAIL "B"

(JCT. OF P.T.H. No. 00 & P.R. No. 000)

SCALE 1:1000

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FOR INTERSECTION LAYOUT, RECOMMENDED SCALES ARE 1 : 1000, 1 : 500

DRAFTING STANDARDS MUST CONFORM WITH THE STANDARDS OUTLINED IN "MANITOBA INFRASTRUCTURE AND TRANSPORTATION'S CADD STANDARDS AND PLANS PREPARATION MANUAL FOR ROADWAY PROJECTS," DATED FEBRUARY 2016

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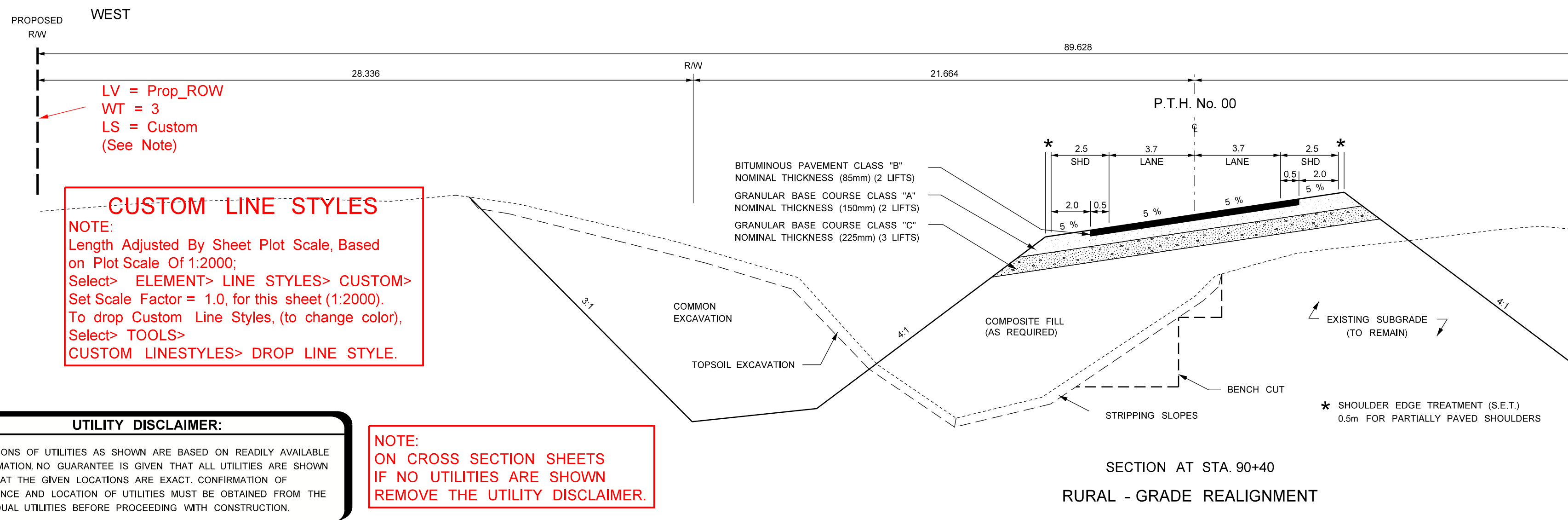
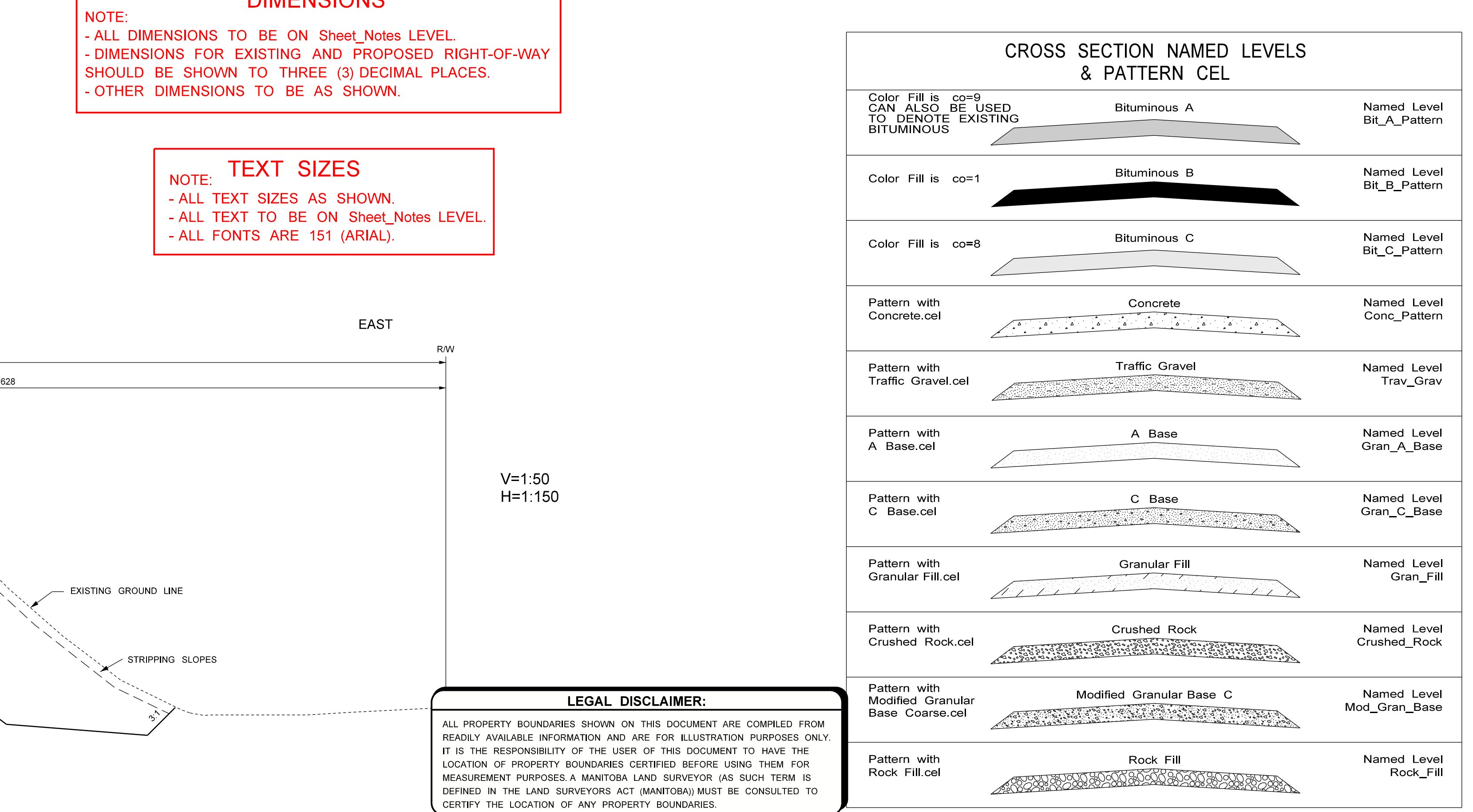
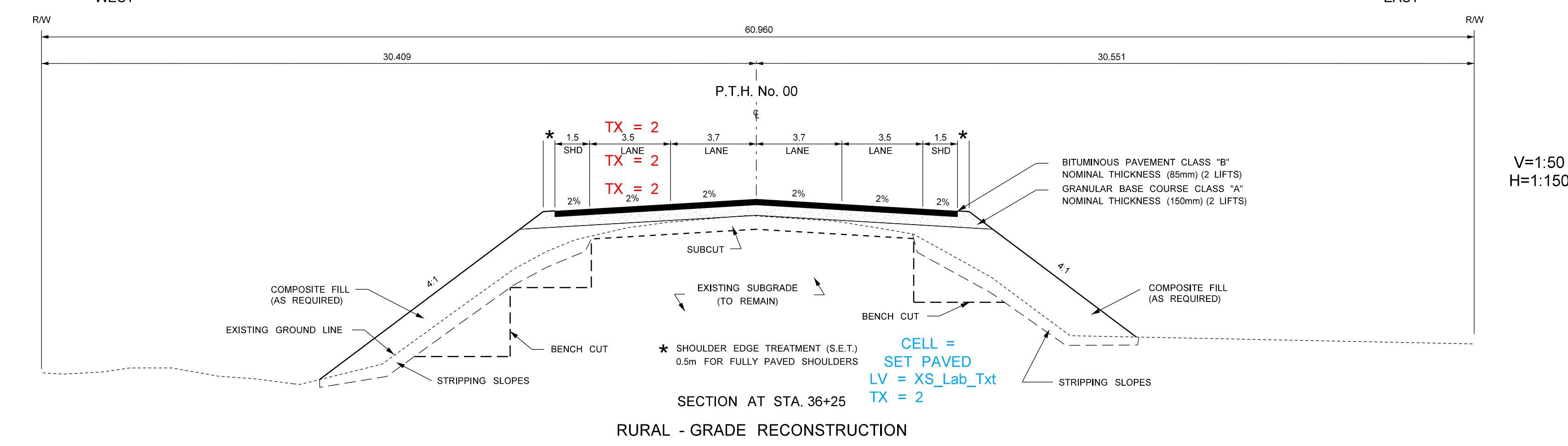
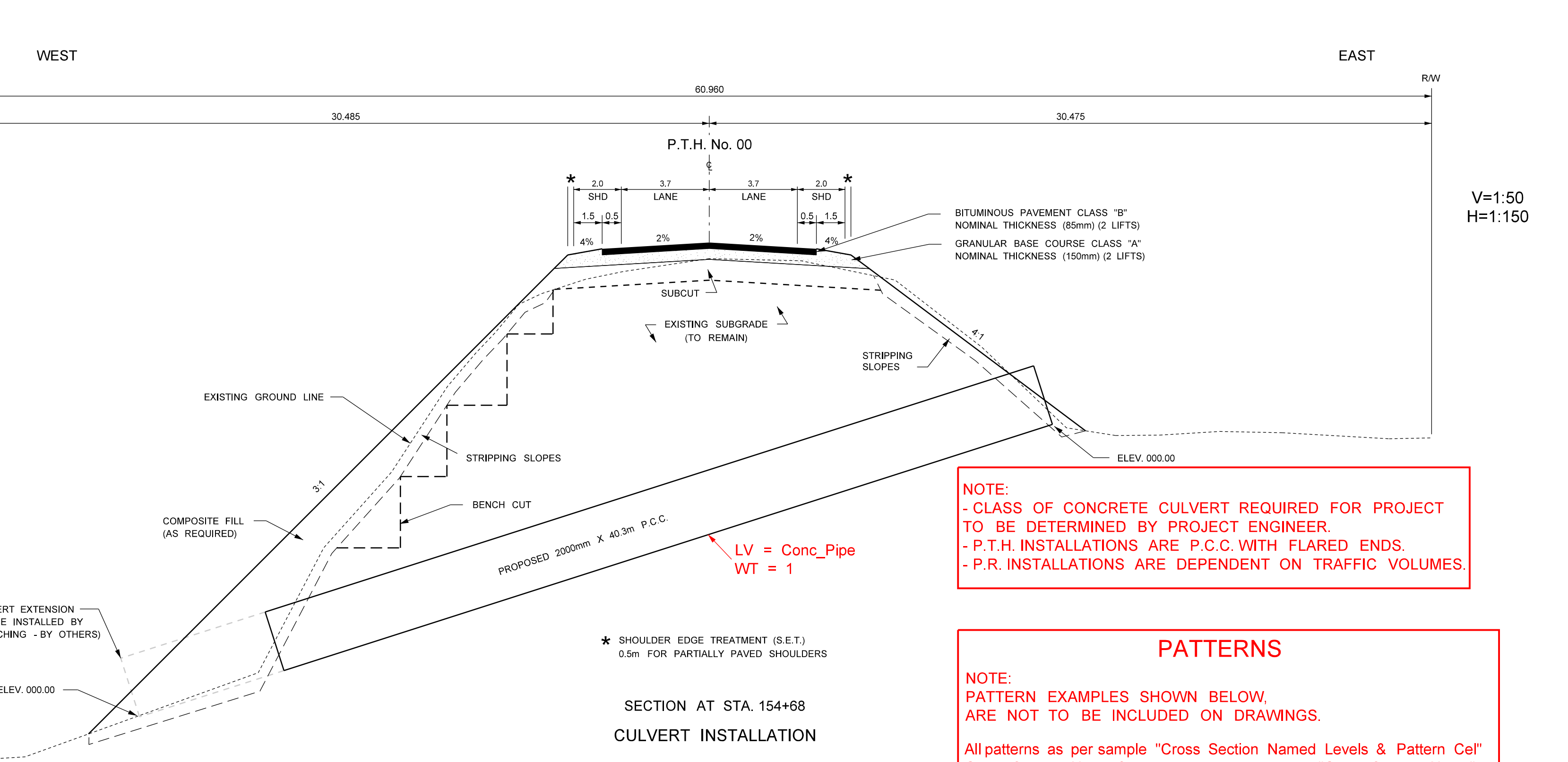
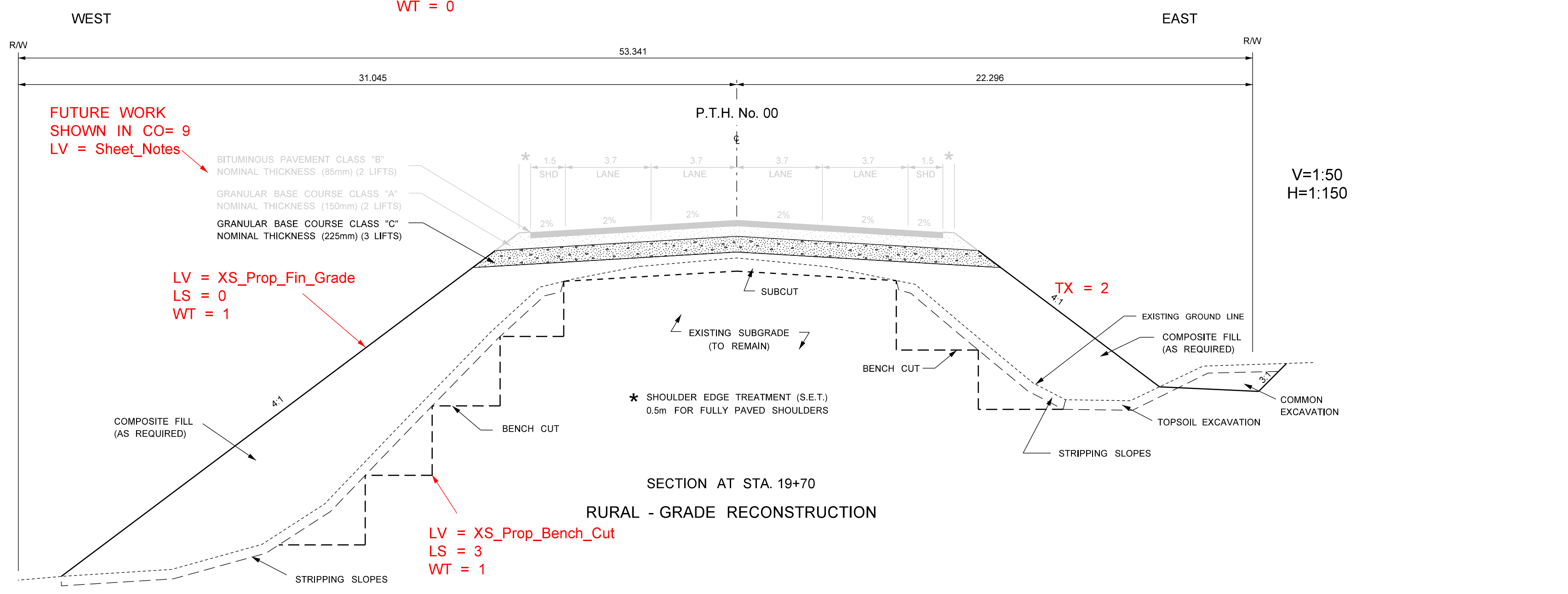
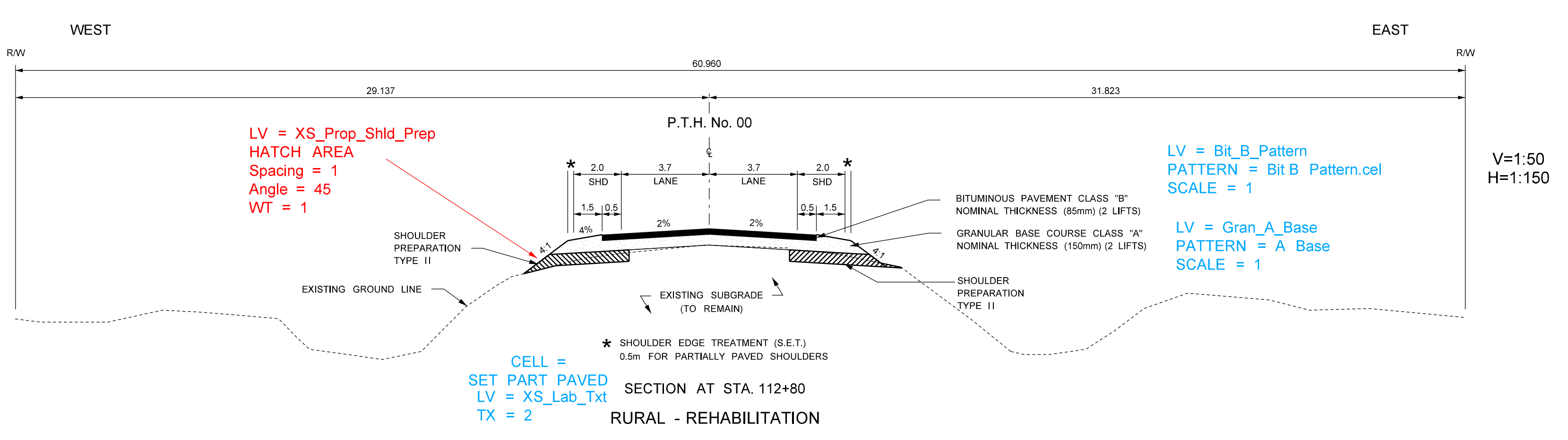
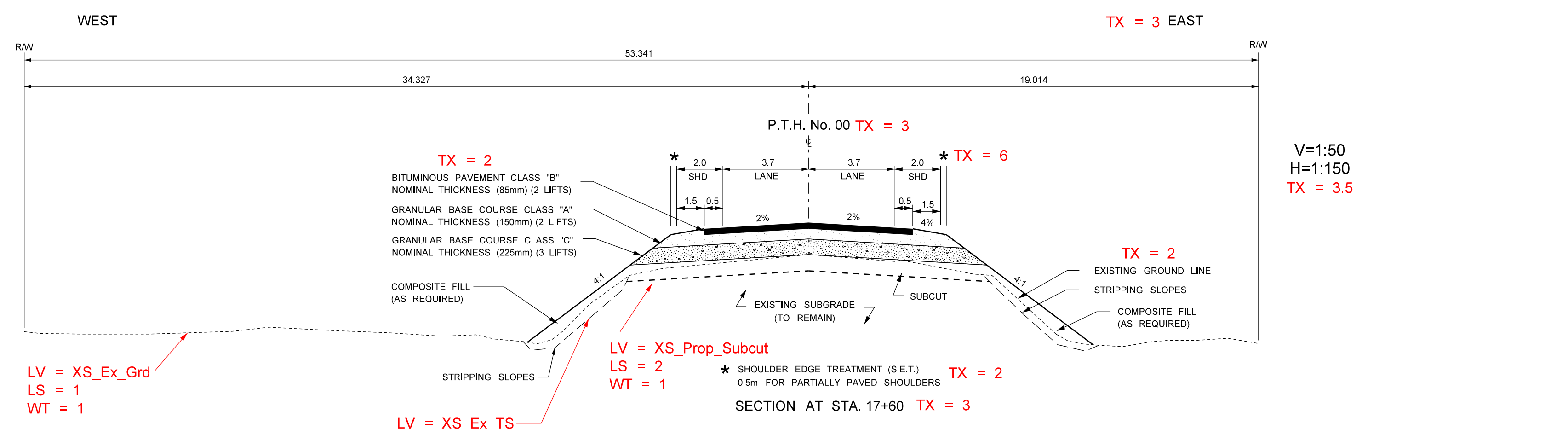
THIS DRAWING ILLUSTRATES DRAWING LAYOUT AND DRAFTING STANDARDS ONLY. INTERSECTION DESIGN MUST BE BASED ON THE "WARRANTS AND STANDARDS FOR INTERSECTION TREATMENT OF RURAL TWO-LANE HIGHWAYS" AND/OR THE "TAC GEOMETRIC DESIGN GUIDE FOR CANADIAN ROADS".

ALL DRAWINGS ARE TO BE SUBMITTED ON MYLAR.

DATE	REVISIONS	APPROVED	LEGEND	BASE DATA INFORMATION/GENERAL NOTES	ENVIRONMENTAL APPROVALS	SEAL	SHEET LOCATION - VARIOUS LOCATIONS	SHEET DESCRIPTION	MANITOBA INFRASTRUCTURE
			<p>EXISTING TO BE REMOVED</p> <p>CENTRE LINE OF ROAD</p> <p>RIGHT-OF-WAY</p> <p>RIGHT-OF-WAY DIMENSIONS</p> <p>MANITOBA INFRASTRUCTURE AND TRANSPORTATION (MIT) CONTROL POINT</p> <p>TREES</p> <p>ACCESSES</p> <p>HYDRO POLE</p> <p>HYDRO POLE GW ANCHOR</p> <p>TELEPHONE PEDESTAL</p> <p>FENCE LINE</p> <p>BITUMINOUS PAVEMENT</p> <p>GRAVEL SURFACE</p>	<p>BASED ON ORIGINAL PLANS :</p> <p>PROPOSED LOCATION PLAN No. 0000</p> <p>PROPOSED PROFILE NO. 000000</p> <p>SKETCH PLAN NOS. SP-000</p> <p>FUNCT. DESIGN STUDY N/A</p> <p>UTM CO-ORDINATE SYSTEM IS NAD83 - ZONE 18 UTM OR 19</p> <p>FILE PATH: MIT STANDARD ENGINEERING DRAWINGS FOR DDD_2016.DGN</p>	<p>CHECK ONE BELOW</p> <p><input checked="" type="checkbox"/> ENVIRONMENTAL CLEARANCE RECEIVED SUBJECT TO MIT ENVIRONMENTAL APPROVAL No. (approval number)</p> <p><input type="checkbox"/> NO ENVIRONMENTAL CLEARANCE REQUIRED</p> <p>ENVIRONMENTAL INFO REQUIRED PRIOR TO PLOTTING ON MYLAR</p>			<p>PROPOSED RIGHT-OF-WAY & INTERSECTION DETAILS</p> <p>CELL = DDD Sheets</p> <p>LV = Title_Block</p>	<p>PROPOSED DETAILED DESIGN DRAWINGS OF P.T.H. No. 00 (P.T.H. No. 00 TO 0.0km WEST OF P.T.H. No. 00) BASE AND BITUMINOUS PAVEMENT</p> <p>PREPARED BY: DATE DRAWN: SCALE: SHEET: PLAN No. REGION No. 00 12 AUGUST 2016 AS SHOWN 4 OF 9</p>

DATE	REVISIONS	APPROVED





NOTE:
- CLASS OF CONCRETE CULVERT REQUIRED FOR PROJECT TO BE DETERMINED BY PROJECT ENGINEER
- P.T.H. INSTALLATIONS ARE P.C.C. WITH FLARED ENDS.
- P.R. INSTALLATIONS ARE DEPENDENT ON TRAFFIC VOLUMES.

PATTERNS
NOTE:
PATTERN EXAMPLES SHOWN BELOW ARE NOT TO BE INCLUDED ON DRAWINGS.
All patterns as per sample "Cross Section Named Levels & Pattern Cel"
Cross Section Notes for materials as per sample "Cross Section Notes".

DIMENSIONS
NOTE:
- ALL DIMENSIONS TO BE ON Sheet_Notes LEVEL.
- DIMENSIONS FOR EXISTING AND PROPOSED RIGHT-OF-WAY SHOULD BE SHOWN TO THREE (3) DECIMAL PLACES.
- OTHER DIMENSIONS TO BE AS SHOWN.

TEXT SIZES
NOTE:
- ALL TEXT SIZES AS SHOWN.
- ALL TEXT TO BE ON Sheet_Notes LEVEL.
- ALL FONTS ARE 151 (ARIAL).

CROSS SECTION NAMED LEVELS & PATTERN CEL		
Color Fill is co=9 CAN ALSO BE USED TO DENOTE EXISTING BITUMINOUS	Bituminous A	Named Level Bit_A_Pattern
Color Fill is co=1	Bituminous B	Named Level Bit_B_Pattern
Color Fill is co=8	Bituminous C	Named Level Bit_C_Pattern
Pattern with Concrete.cel	Concrete	Named Level Conc_Pattern
Pattern with Traffic Gravel.cel	Traffic Gravel	Named Level Trav_Grav
Pattern with A Base.cel	A Base	Named Level Gran_A_Base
Pattern with C Base.cel	C Base	Named Level Gran_C_Base
Pattern with Granular Fill.cel	Granular Fill	Named Level Gran_Fill
Pattern with Crushed Rock.cel	Crushed Rock	Named Level Crushed_Rock
Pattern with Modified Granular Base Coarse.cel	Modified Granular Base C	Named Level Mod_Gran_Base
Pattern with Rock Fill.cel	Rock Fill	Named Level Rock_Fill

PROPOSED CROSS SECTIONS, RECOMMENDED SCALES ARE
HORIZ 1 : 300 & VERT. 1 : 100 OR
HORIZ 1 : 150 & VERT. 1 : 50

DRAFTING STANDARDS MUST CONFORM WITH THE STANDARDS OUTLINED IN "MANITOBA INFRASTRUCTURE AND TRANSPORTATION'S CADD STANDARDS AND PLANS PREPARATION MANUAL FOR ROADWAY PROJECTS," DATED FEBRUARY 2016

THIS DRAWING ILLUSTRATES DRAWING LAYOUT AND DRAFTING STANDARDS ONLY.
ALL DRAWINGS ARE TO BE SUBMITTED ON MYLAR.

DATE	REVISIONS	APPROVED

CUSTOM LINE STYLES
NOTE:
Length Adjusted By Sheet Plot Scale, Based on Plot Scale Of 1:2000;
Select- ELEMENT> LINE STYLES> CUSTOM> Set Scale Factor = 1.0, for this sheet (1:2000).
To drop Custom Line Styles, (to change color),
Select- TOOLS> CUSTOM LINESYLES> DROP LINE STYLE.

UTILITY DISCLAIMER:
LOCATIONS OF UTILITIES AS SHOWN ARE BASED ON READILY AVAILABLE INFORMATION NO GUARANTEE IS GIVEN THAT ALL UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND LOCATION OF UTILITIES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

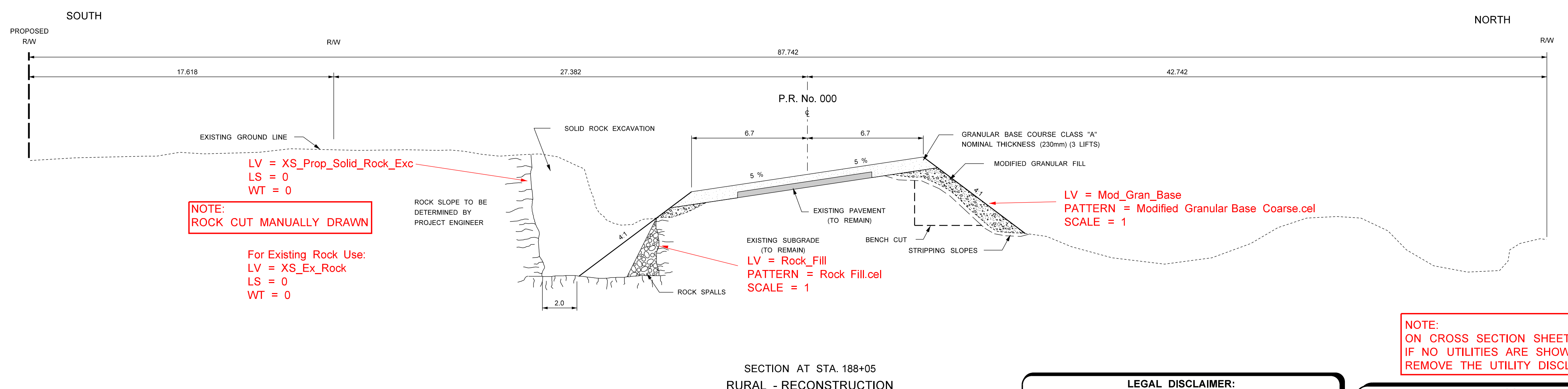
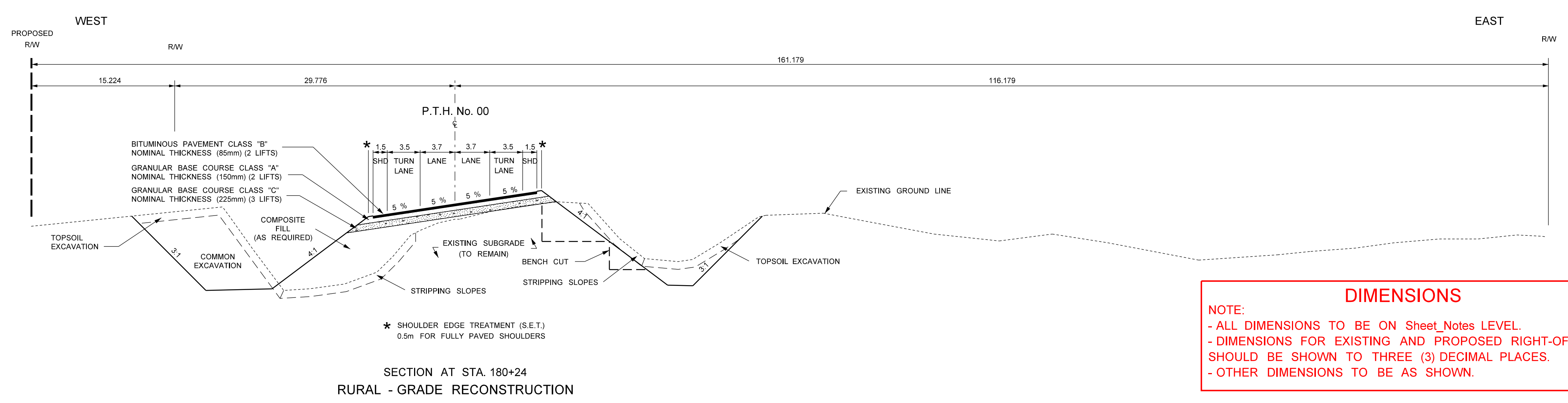
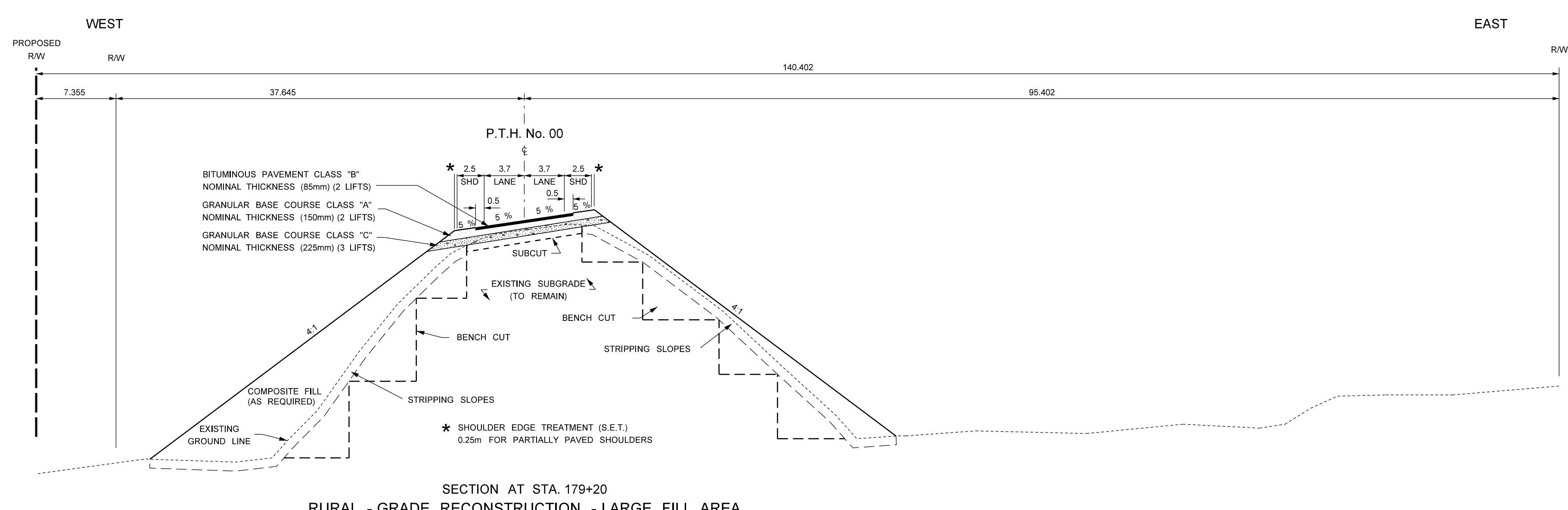
NOTE:
ON CROSS SECTION SHEETS IF NO UTILITIES ARE SHOWN REMOVE THE UTILITY DISCLAIMER.

NOTE:
ON CROSS SECTION SHEETS REMOVE THE LEGEND.

LEGAL DISCLAIMER:
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DATE	REVISIONS	APPROVED	LEGEND	BASE DATA INFORMATION/GENERAL NOTES	ENVIRONMENTAL APPROVALS	SEAL	SHEET LOCATION - VARIOUS LOCATIONS	SHEET DESCRIPTION	MANITOBA INFRASTRUCTURE
				BASED ON ORIGINAL PLANS : PROPOSED LOCATION PLAN No. 0000 PROPOSED PROFILE NO. 000008 SKETCH PLAN NOS. SP-000 FUNCT. DESIGN STUDY N/A UTM CO-ORDINATE SYSTEM IS NAD83 - ZONE 18N FILE PATH: MIT STANDARD ENGINEERING DRAWINGS FOR DDD, 2016.DGN	<input checked="" type="checkbox"/> ENVIRONMENTAL CLEARANCE RECEIVED SUBJECT TO MIT ENVIRONMENTAL APPROVAL No. 0000-0000 (approval number) <input type="checkbox"/> NO ENVIRONMENTAL CLEARANCE REQUIRED ENVIRONMENTAL INFO REQUIRED PRIOR TO PLOTTING ON MYLAR			CROSS SECTION DETAILS CELL = DDD Sheets LV = Title_Block	PROPOSED DETAILED DESIGN DRAWINGS OF P.T.H. No. 00 (P.T.H. No. 00 TO 0.0km WEST OF P.T.H. No. 00) BASE AND BITUMINOUS PAVEMENT PREPARED BY: DATE DRAWN: 12 AUGUST 2016 SCALE: AS SHOWN SHEET: 5 OF 9 PLAN No. REGION No. 00

RECOMMENDED	MANITOBA Infrastructure
DIRECTOR OF HIGHWAY PLANNING AND DESIGN BRANCH APPROVED:	SECTION: TITLE: DETAILED DESIGN DRAWINGS SHOWING DRAFTING STANDARDS DRAFTING DATE: AUG 12/16 5
EXECUTIVE DIRECTOR OF HIGHWAY ENGINEERING	REGION No. 00



DIMENSIONS
 NOTE:
 - ALL DIMENSIONS TO BE ON Sheet_Notes LEVEL.
 - DIMENSIONS FOR EXISTING AND PROPOSED RIGHT-OF-WAY SHOULD BE SHOWN TO THREE (3) DECIMAL PLACES.
 - OTHER DIMENSIONS TO BE AS SHOWN.

TEXT SIZES
 NOTE:
 - ALL TEXT SIZES FOLLOW SAME FORMAT AS SHEET 5
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PATTERNS
 NOTE:
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CROSS SECTION NAMED LEVELS & PATTERN CEL		
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 DRAFTING STANDARDS MUST CONFORM WITH THE STANDARDS OUTLINED IN "MANITOBA INFRASTRUCTURE AND TRANSPORTATION'S CADD STANDARDS AND PLANS PREPARATION MANUAL FOR ROADWAY PROJECTS," DATED FEBRUARY 2016

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 ALL DRAWINGS ARE TO BE SUBMITTED ON MYLAR.

DATE	REVISIONS	APPROVED

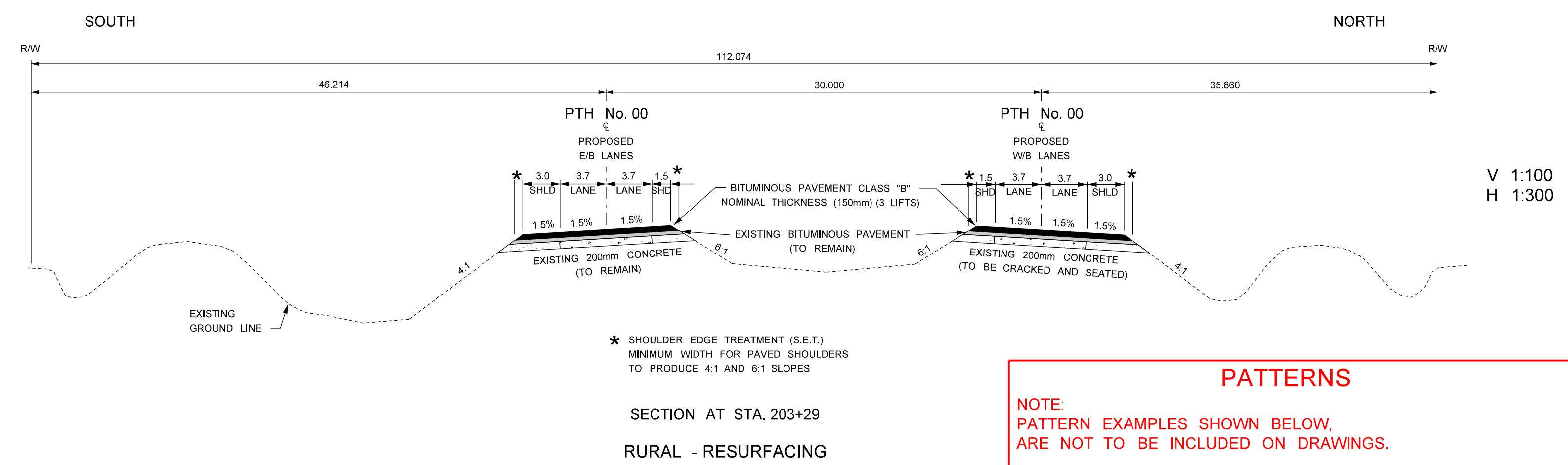
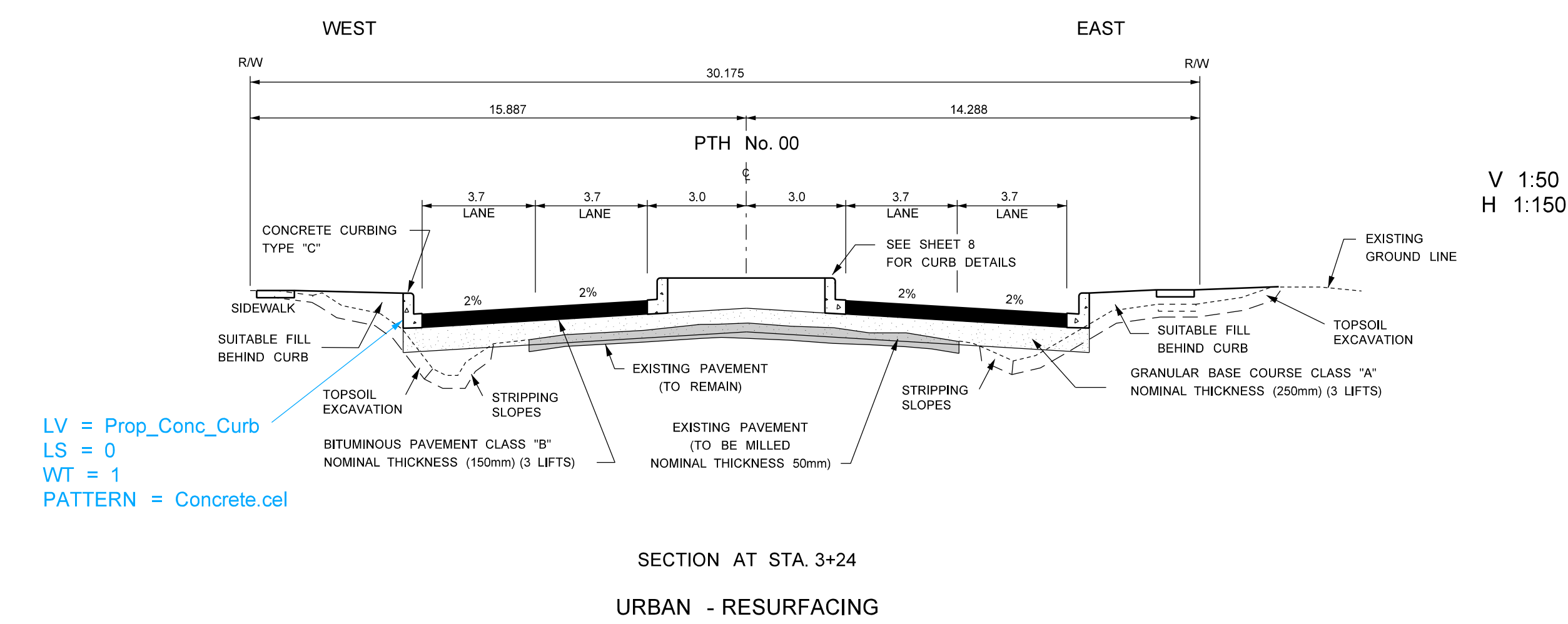
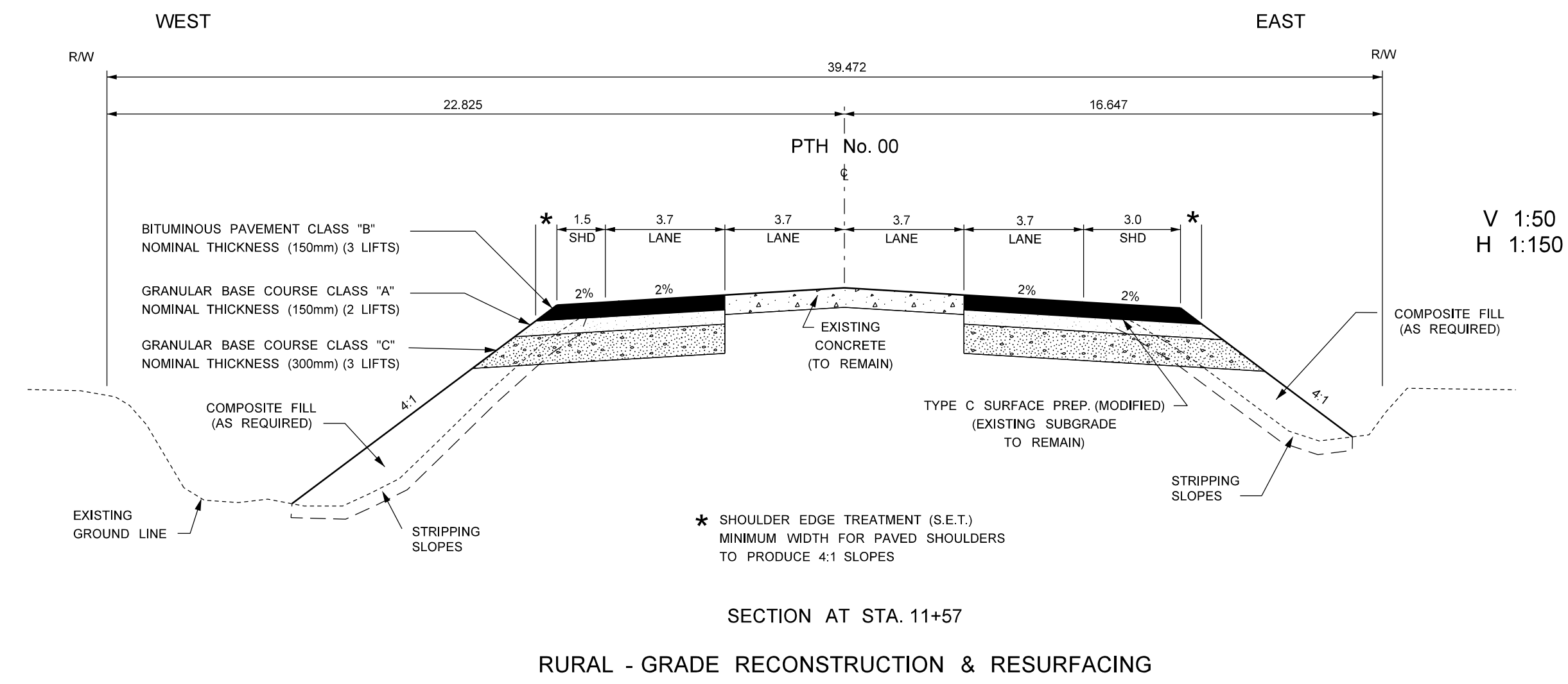
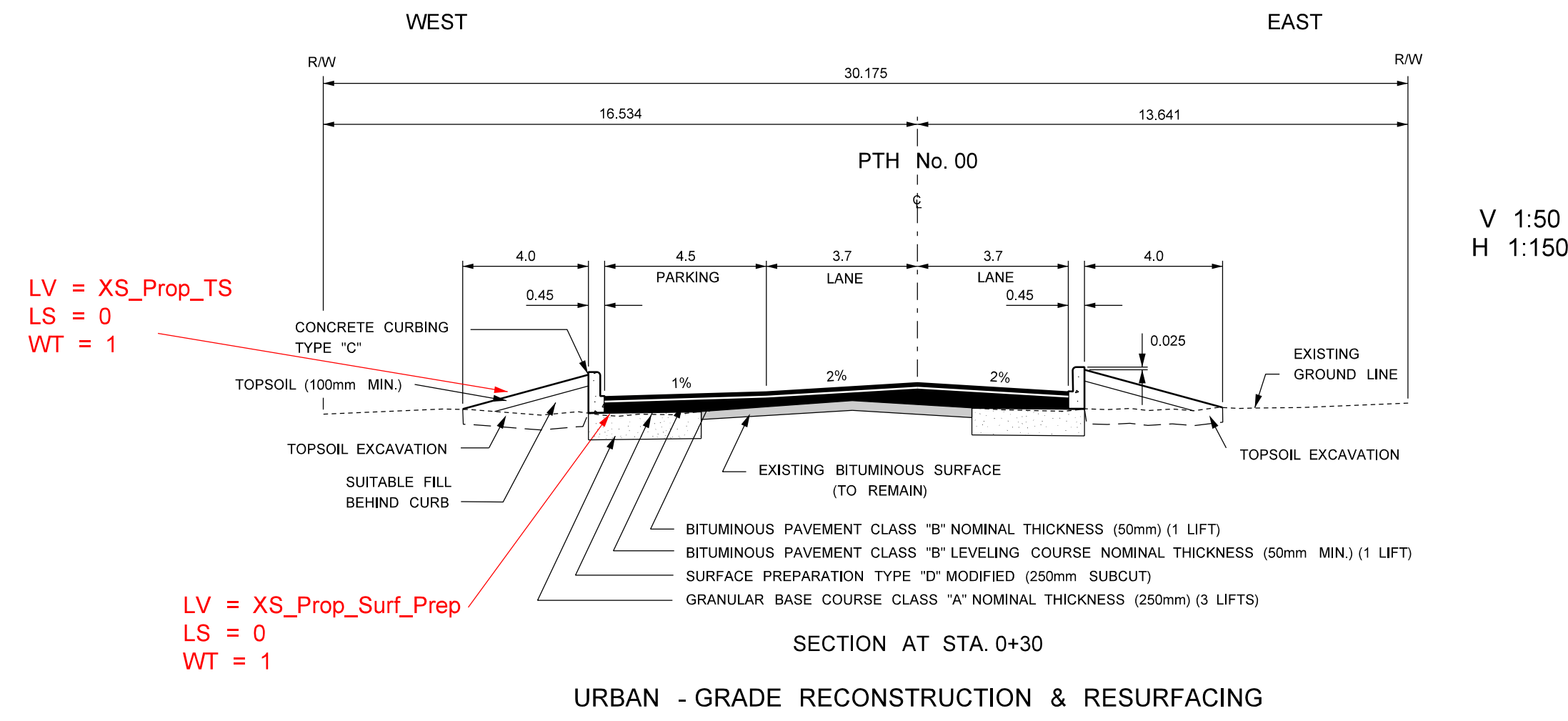
RECOMMENDED	
DIRECTOR OF HIGHWAY PLANNING AND DESIGN BRANCH	
APPROVED	SECTION
EXECUTIVE DIRECTOR OF HIGHWAY ENGINEERING	TITLE: DETAILED DESIGN DRAWINGS SHOWING DRAFTING STANDARDS DRAFTING DATE: AUG 12/16 SECTION: 6

LEGAL DISCLAIMER:
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NOTE:
ON CROSS SECTION SHEETS REMOVE THE LEGEND.

DATE	REVISIONS	APPROVED	LEGEND	BASE DATA INFORMATION/GENERAL NOTES	ENVIRONMENTAL APPROVALS	SEAL	SHEET LOCATION / VARIOUS LOCATIONS	SHEET DESCRIPTION	MANITOBA INFRASTRUCTURE				
				BASED ON ORIGINAL PLANS: PROPOSED LOCATION PLAN NO. 0000 PROPOSED PROFILE NO. 000004 SKETCH PLAN NO. SP-000 FUNCT. DESIGN STUDY N/A UTM CO-ORDINATE SYSTEM IS NAD83 - ZONE 18 OR 19 FILE PATH: MIT STANDARD ENGINEERING DRAWINGS FOR DDD_2016.DGN	CHECK ONE BELOW <input checked="" type="checkbox"/> ENVIRONMENTAL CLEARANCE RECEIVED SUBJECT TO MIT ENVIRONMENTAL APPROVAL NO. 0000 (approval number) <input type="checkbox"/> NO ENVIRONMENTAL CLEARANCE REQUIRED		DESIGNED BY 	CROSS SECTION DETAILS CELL = DDD Sheets LV = Title_Block	PROPOSED DETAILED DESIGN DRAWINGS OF P.T.H. No. 00 (P.T.H. No. 00 TO 0.0km WEST OF P.T.H. No. 00) BASE AND BITUMINOUS PAVEMENT PREPARED BY: 12 AUGUST 2016 AS SHOWN 6 OF 9 REGION No. 00 DATE: AUG 12/16				



PATTERNS

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TEXT SIZES

NOTE:
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Pattern with Modified Granular Base Coarse.cel	Modified Granular Base C	Named Level Mod_Gran_Base
Pattern with Rock Fill.cel	Rock Fill	Named Level Rock_Fill

PROPOSED CROSS SECTIONS,
RECOMMENDED SCALES ARE

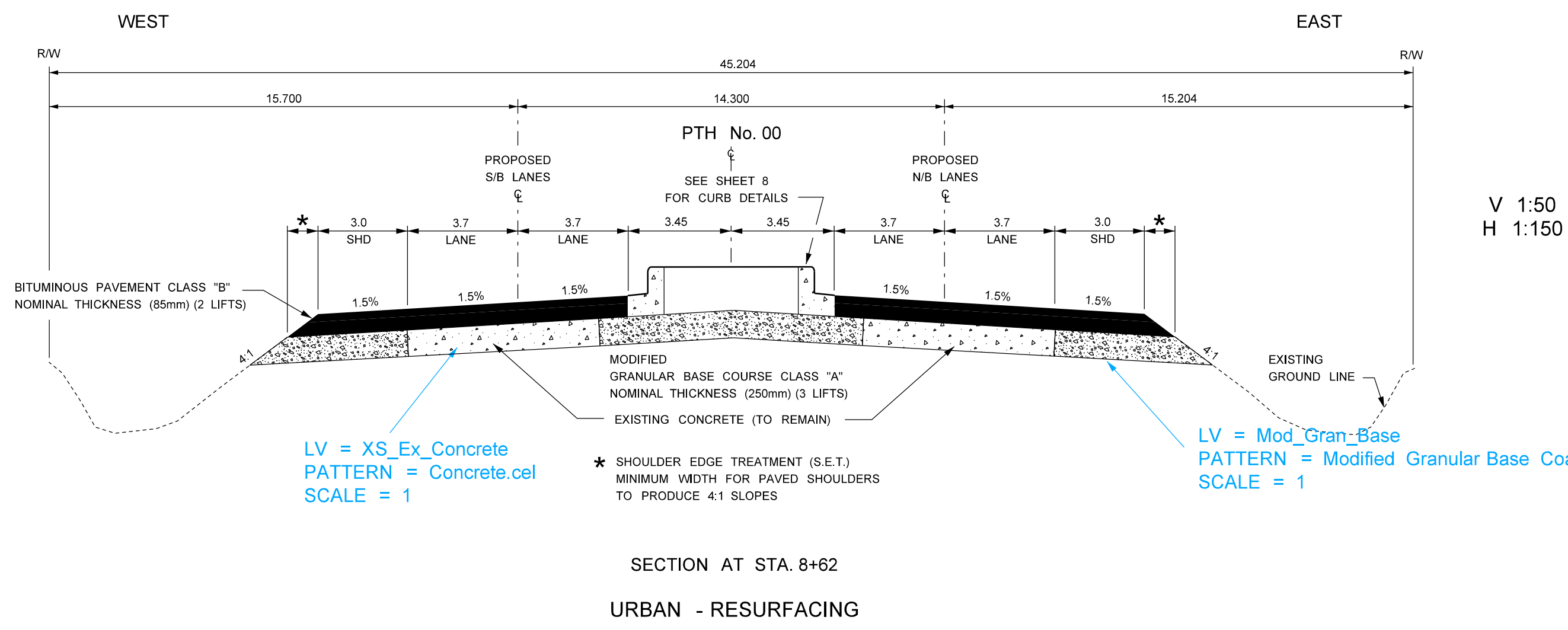
HORIZ 1 : 300 & VERT 1 : 100 OR
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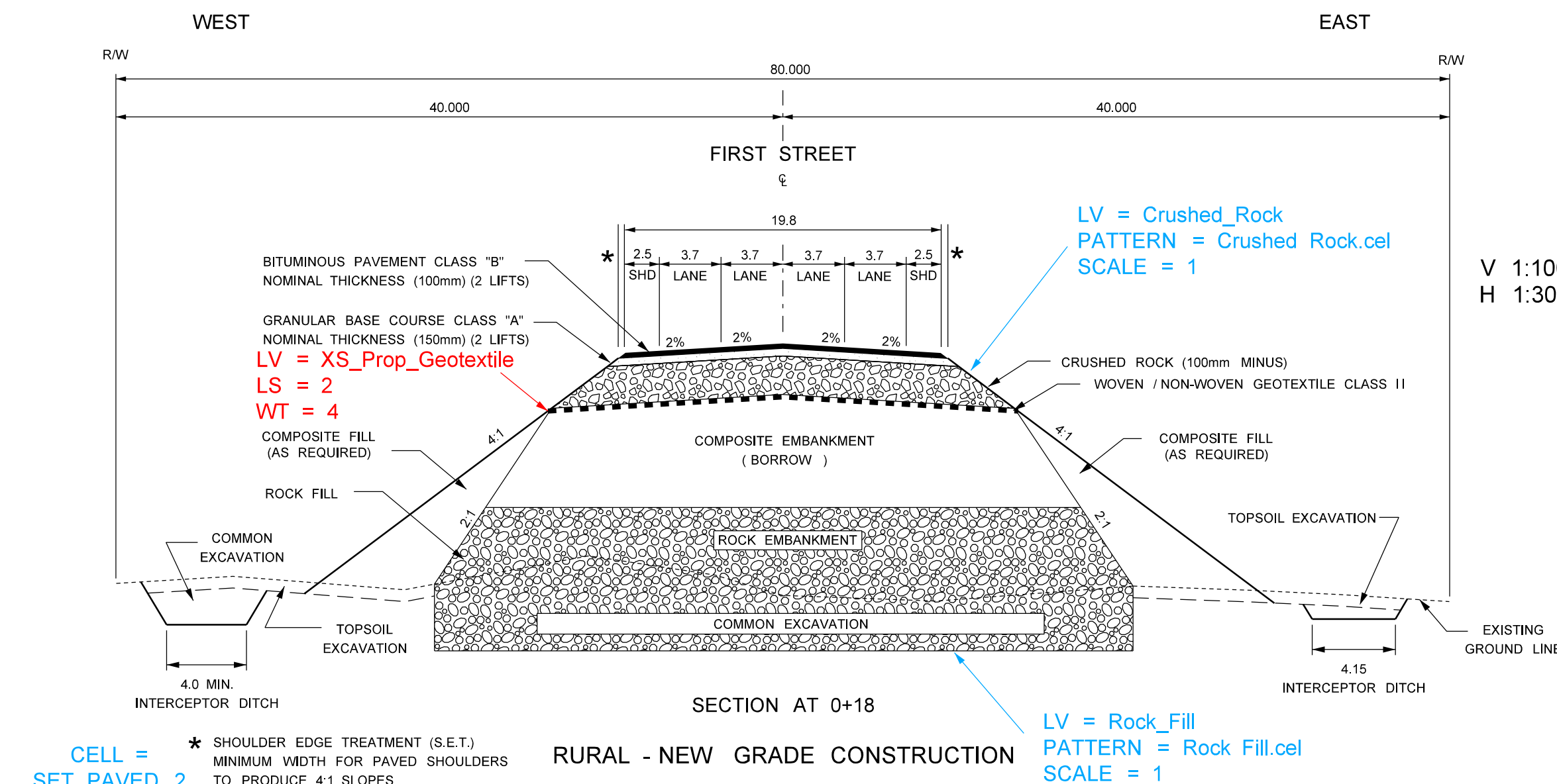
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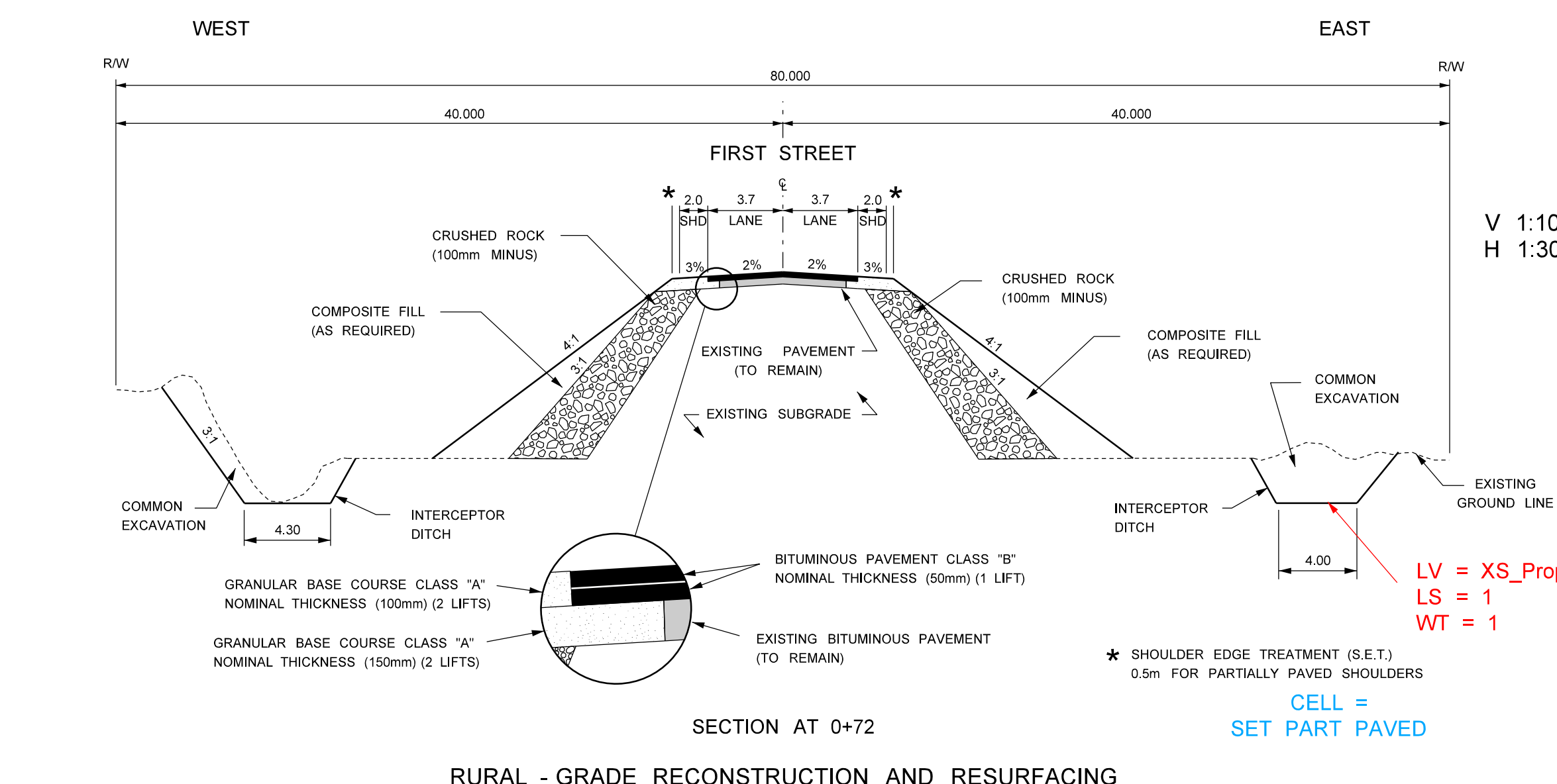
NOTE:
ON CROSS SECTION SHEETS
REMOVE THE LEGEND.

TOWN ACCESS (00000000)



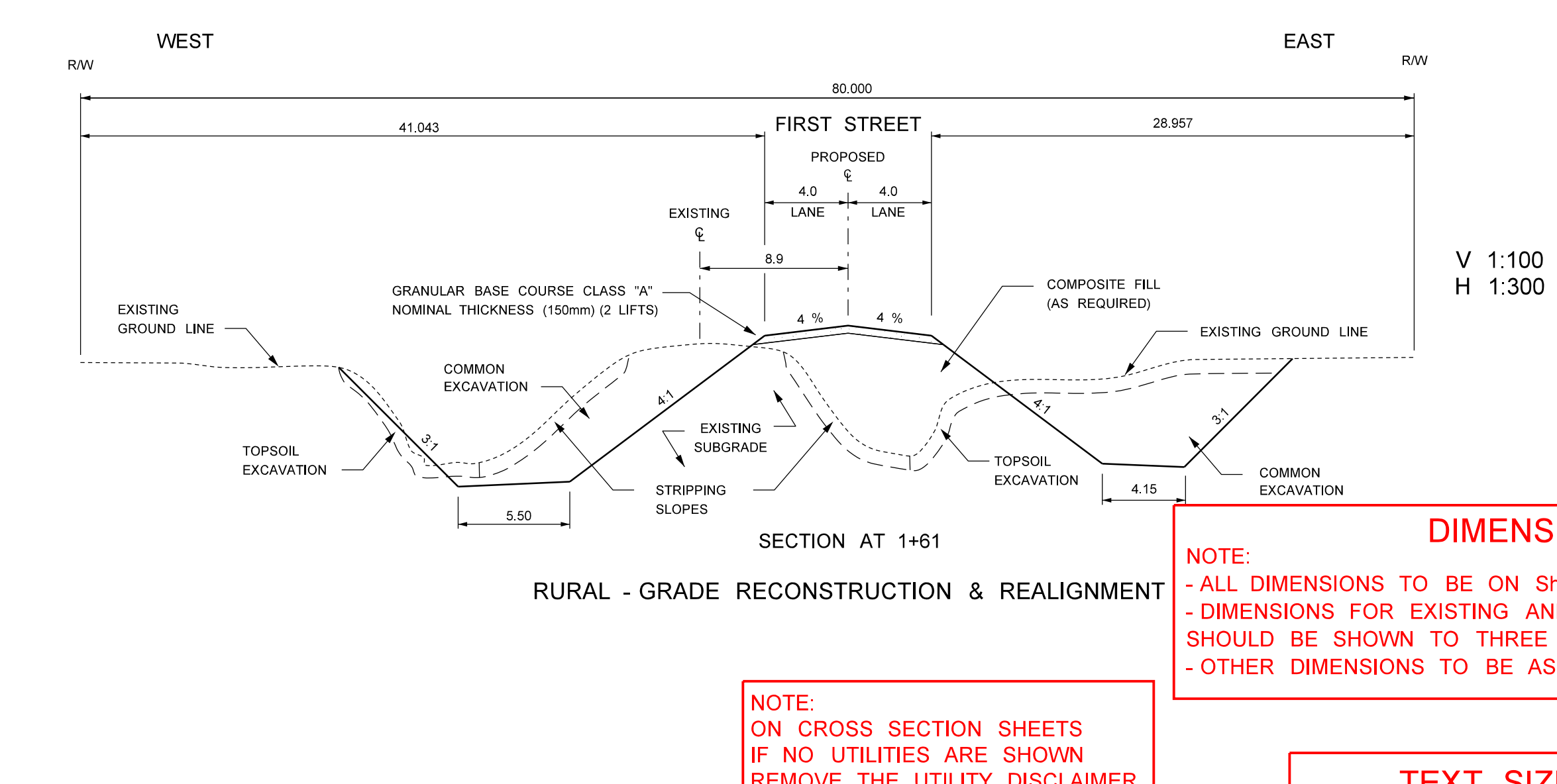
V 1:100
H 1:300

RURAL - NEW GRADE CONSTRUCTION



V 1:100
H 1:300

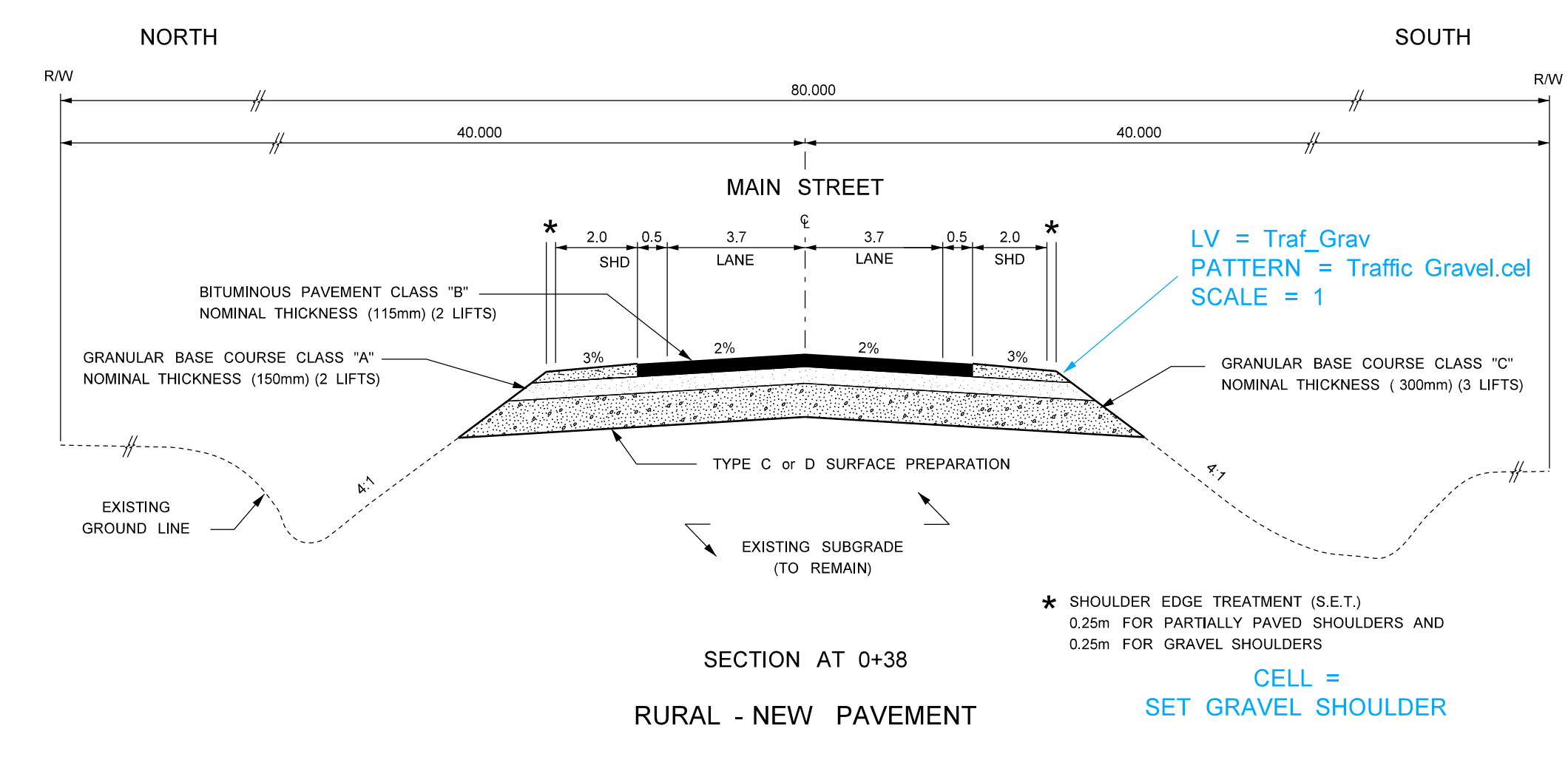
RURAL - GRADE RECONSTRUCTION AND RESURFACING



V 1:100
H 1:300

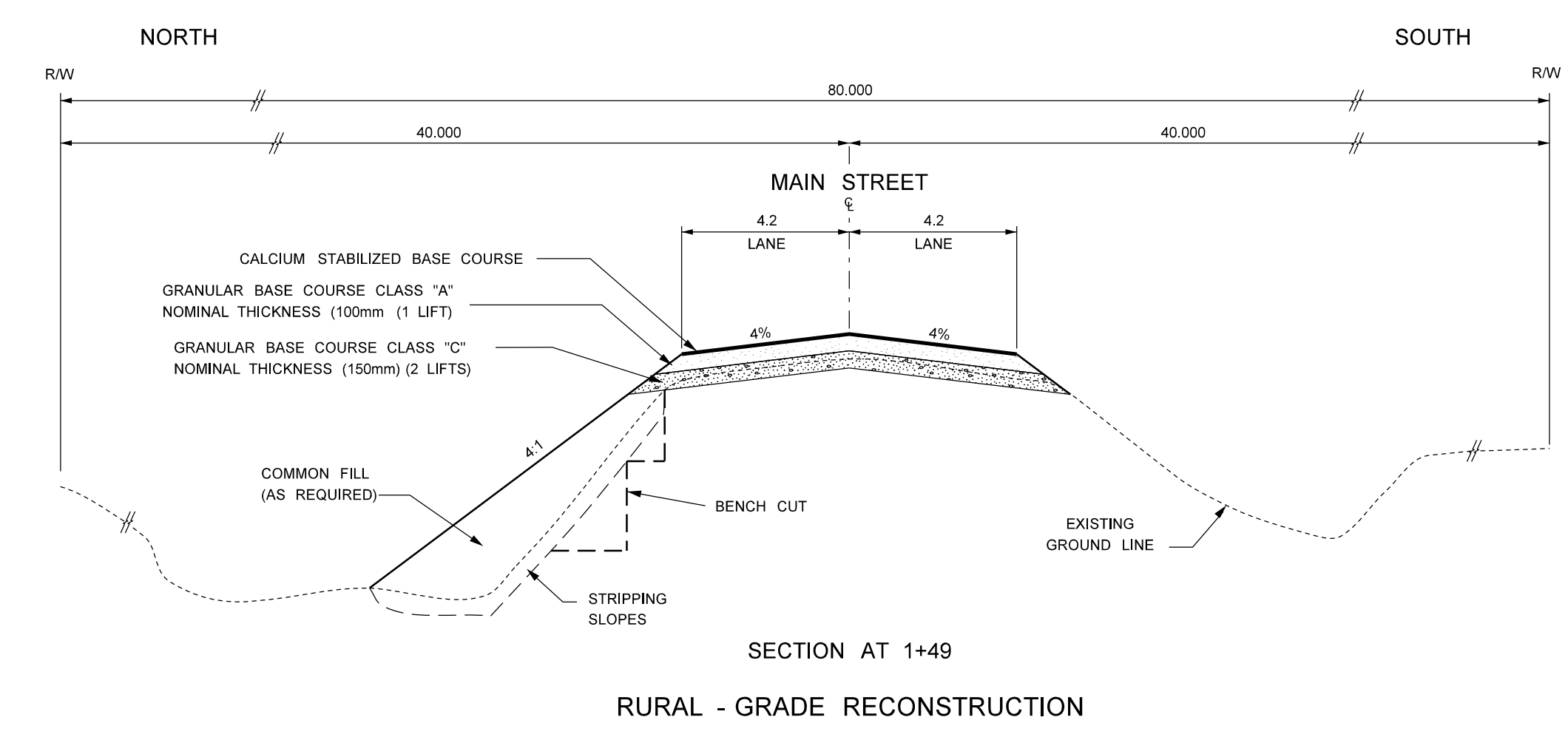
RURAL - GRADE RECONSTRUCTION & REALIGNMENT

TOWN ACCESS (00000000)



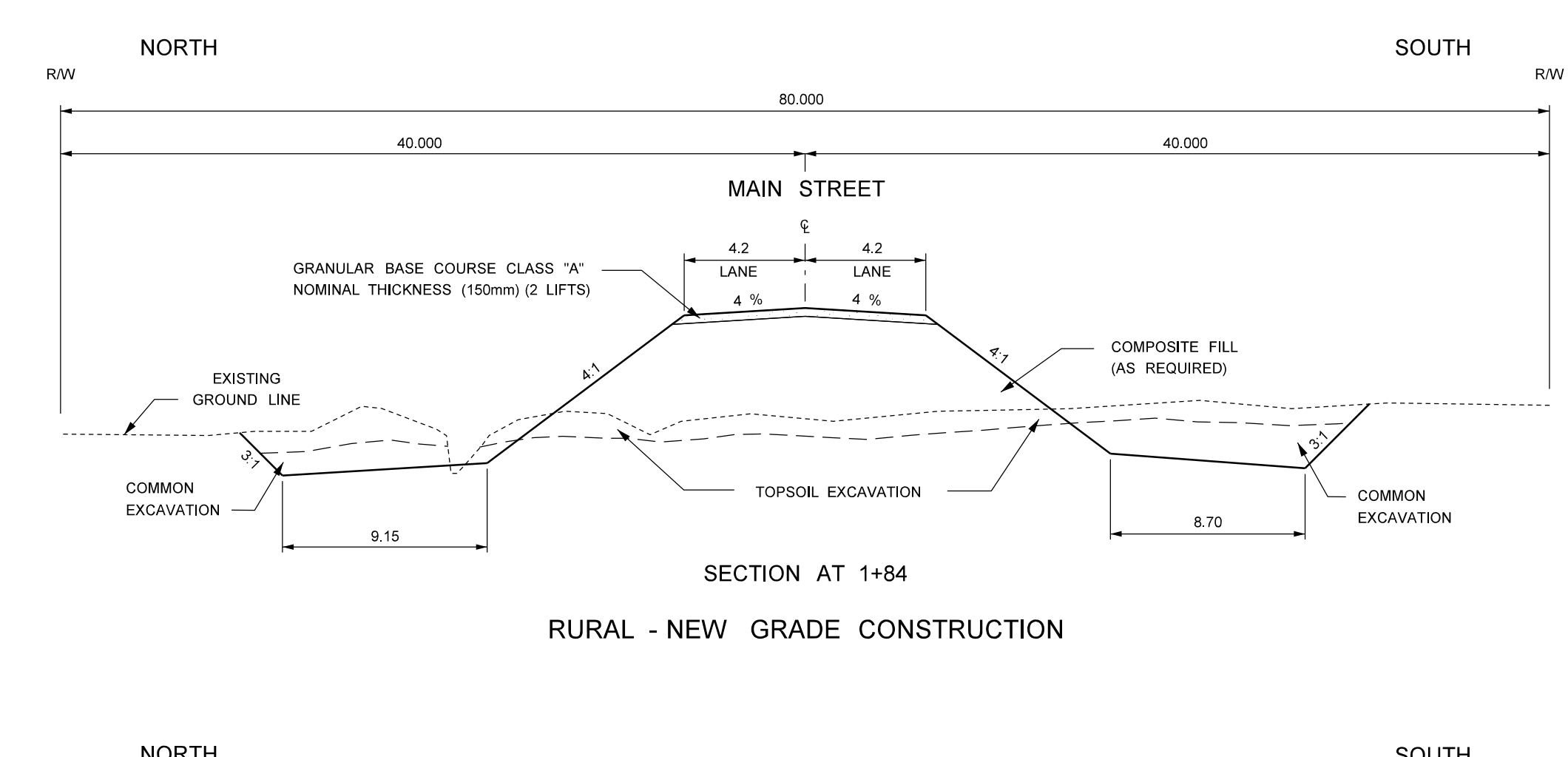
V 1:50
H 1:150

RURAL - NEW PAVEMENT



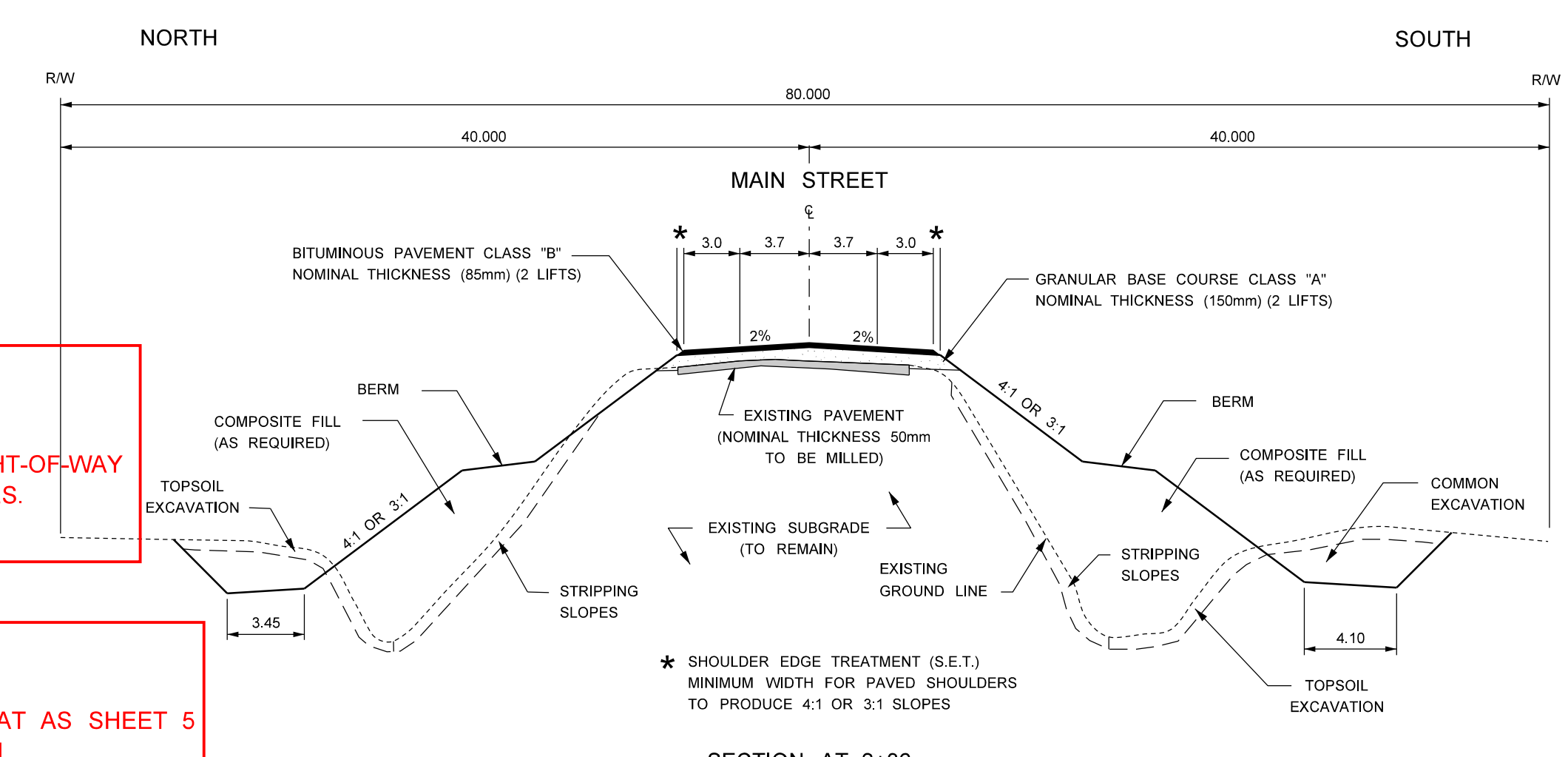
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H 1:150

RURAL - GRADE RECONSTRUCTION



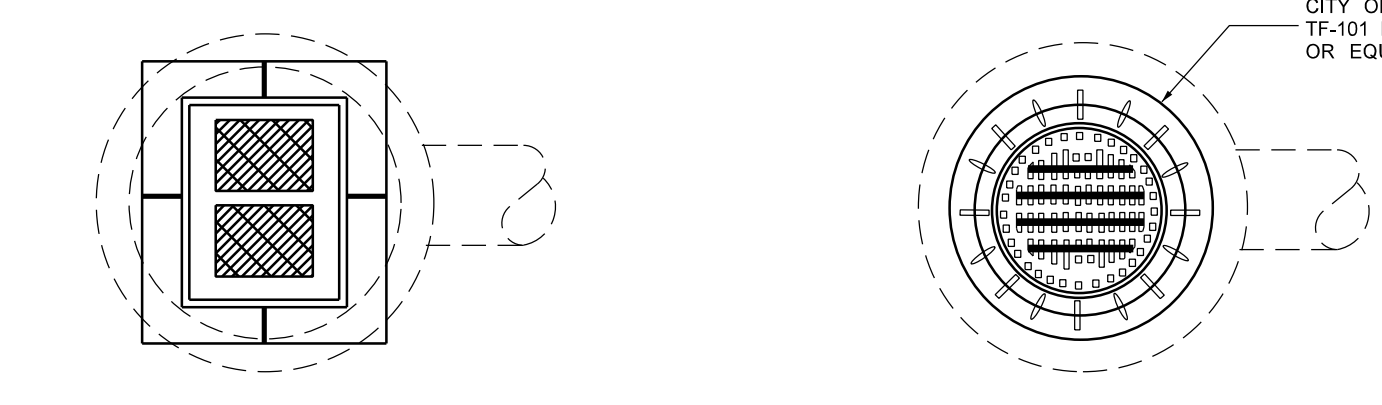
V 1:100
H 1:300

RURAL - NEW GRADE CONSTRUCTION

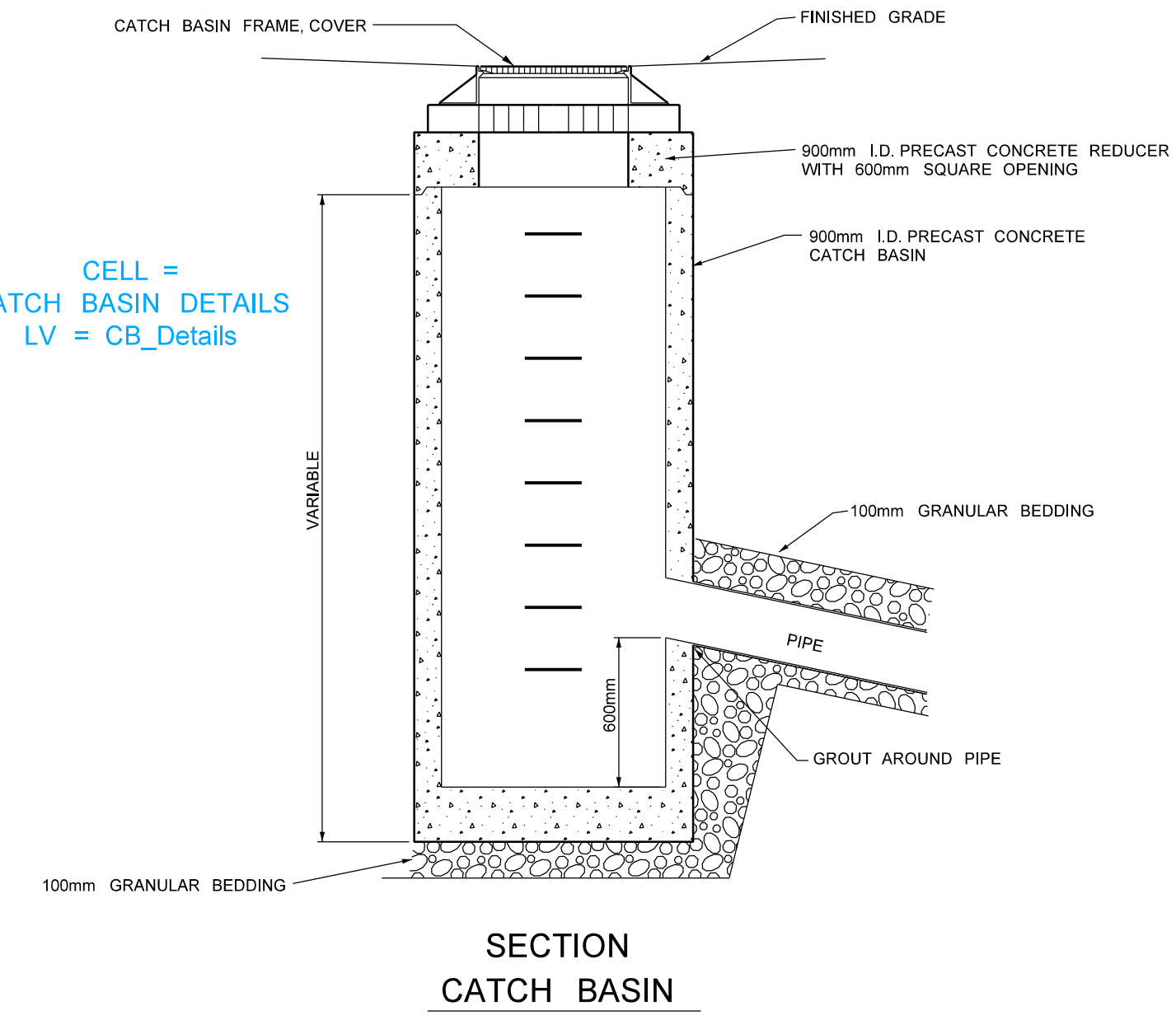


V 1:100
H 1:300

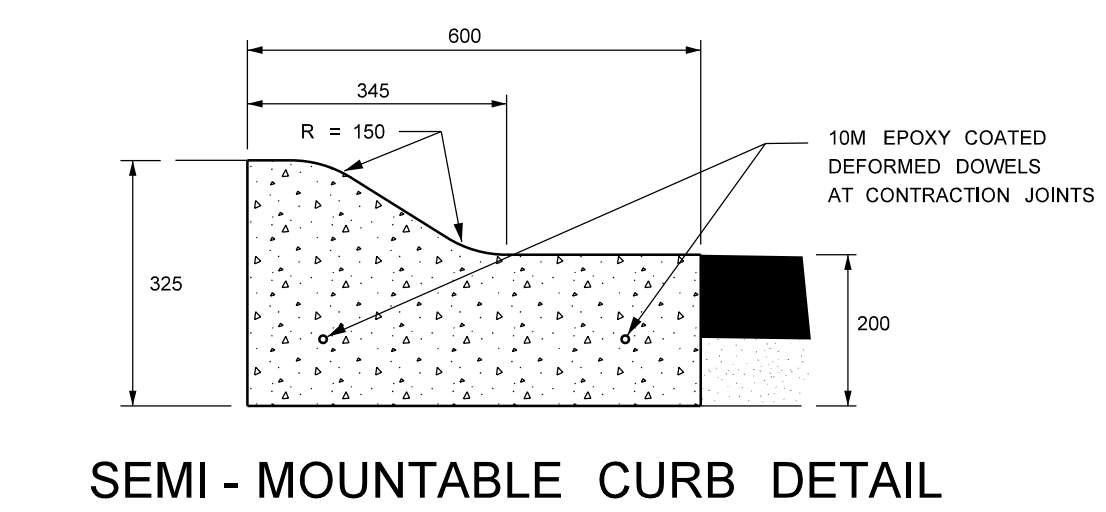
RURAL - GRADE RECONSTRUCTION AND RESURFACING



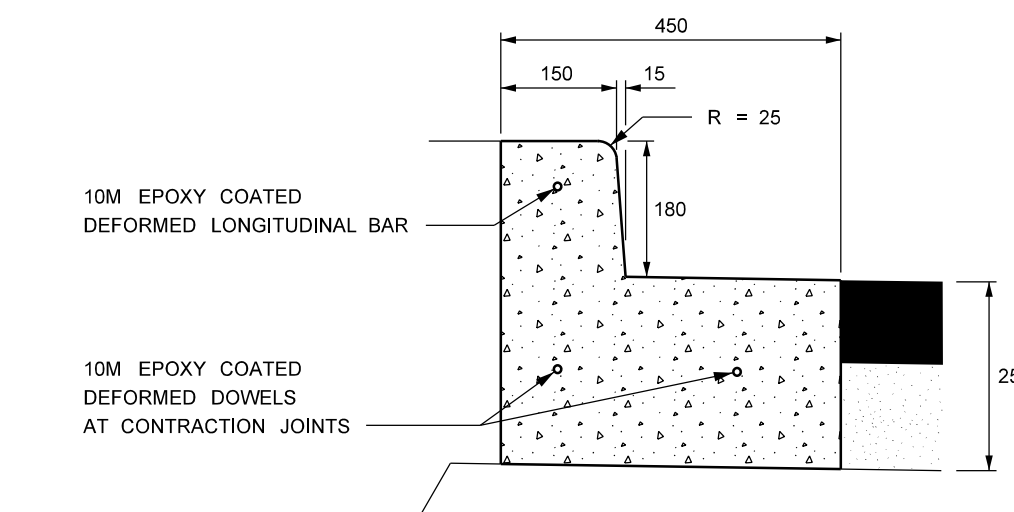
PLAN VIEW



SECTION CATCH BASIN



SEMI-MOUNTABLE CURB DETAIL



TYPE "C" CURB DETAIL

CURB & GUTTER DETAILS
DIMENSIONS ARE IN MILLIMETERS

NOTE:
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NOTE:
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IF NO UTILITIES ARE SHOWN
REMOVE THE UTILITY DISCLAIMER.

NOTE:
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SCALE 1:20

SCALE 1:10

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DATE	REVISIONS	APPROVED

RECOMMENDED
 DIRECTOR OF HIGHWAY PLANNING AND DESIGN BRANCH
 APPROVED

Manitoba Infrastructure

SECTION
 TITLE: DETAILED DESIGN DRAWINGS SHOWING DRAFTING STANDARDS
 DRAFTING DATE: AUG 12/16
 SHEET: 8

LV = Coord_Layout TX = 9 SLANT = 15.0 TX = 6 TX = 4

CONTROL POINT	STATION	COORDINATES		PARA. METER	CURVE DATA		
		NORTHING	EASTING		①	②	③
T.S.	170+00.000	34945.897	41342.526		214°18'18.3"	264.4424.3'	212°23'51.0"
S.C.	170+45.000	34865.879	41307.883				
C.S.	173+11.189	35012.047	41290.422				
S.T.	173+76.189	34992.109	41237.533	R	65.000	65.000	65.000
C.C.	NA	34947.058	41287.813	Δc	217°03'33.5"	207°28'36.5"	215°06'06.2"
				Tc	N/A	N/A	N/A
				L	246.189	235.338	244.025
				L.C.	123.279	128.260	123.949
T.S.	190+00.000	35081.935	41345.256				
S.C.	190+45.000	35101.578	41284.050				
C.S.	193+00.338	35142.853	41414.013	Ls	65.000	65.000	65.000
S.T.	193+45.338	35080.419	41398.719	Δs	28°38'52.4"	28°38'52.4"	28°38'52.4"
C.C.	NA	35136.788	41349.297	X	63.394	63.394	63.394
				Y	10.841	10.841	10.841
				k	32.231	32.231	32.231
				p	2.684	2.684	2.684
T.S.	180+00.000	35051.777	41432.224				
S.C.	180+45.000	35103.888	41469.720	L.T	43.915	43.915	43.915
C.S.	180+09.025	34995.871	41507.292	S.T.	22.196	22.196	22.196
S.T.	183+74.025	35006.825	41445.923	L.C.	64.281	64.281	64.281
C.C.	NA	35050.871	41507.185	Δs	9°31'44.3"	9°31'44.3"	9°31'44.3"

LV = Coord_Layout

CONTROL POINT	STATION	COORDINATES		PARA. METER	CURVE DATA		
		NORTHING	EASTING		①	②	③
T.C.	537+00.005	36192.841	41974.448				
P.I.	542+24.683	35799.384	41727.299	R	6000.000		
C.T.	546+87.192	35372.735	41543.823	Δc	9°11'12.2"		
P.O.T.	547+04.215	35357.099	41530.891	Tc	464.488		
P.O.T.	550+00.000	35085.423	41419.928	L	927.127		
P.O.T.	550+12.983	35073.498	41414.793	L.C.	926.209		
P.O.T.	550+28.941	35081.505	41409.829				
P.O.T.	550+60.280	35030.056	41366.989				
P.O.T.	550+98.139	34995.283	41381.118				
P.O.T.	551+55.087	34942.977	41368.599				
P.O.T.	553+71.640	34792.000	41292.738				
P.O.T.	555+74.024	34558.187	41192.938				
P.O.T.	555+81.241	34551.557	41190.082				

LV = Coord_Layout

CONTROL POINT	STATION	COORDINATES		PARA. METER	CURVE DATA		
		NORTHING	EASTING		①	②	③
P.O.T.	79+00.000	34599.551	42228.700				
T.C.	79+30.225	34585.305	42202.966	R	4000.000	1603.000	
P.I.	71+30.183	34637.397	42117.679	Δc	2°51'44.7"	9°14'13.8"	
C.T.	72+30.058	34685.164	42029.895	Tc	99.938	129.468	
P.O.T.	74+09.354	34799.884	41920.584	L	198.833	298.434	
P.O.T.	77+39.897	34924.056	41950.887	L.C.	199.813	298.154	
P.O.T.	78+98.224	35003.575	41444.754				
P.O.T.	79+51.627	35030.056	41396.089				
P.O.T.	80+11.312	35058.980	41343.488				
T.C.	81+69.289	35136.141	41324.813				
P.I.	82+68.887	35196.038	41091.066				
C.T.	84+27.823	35275.391	40988.729				

LV = Coord_Layout

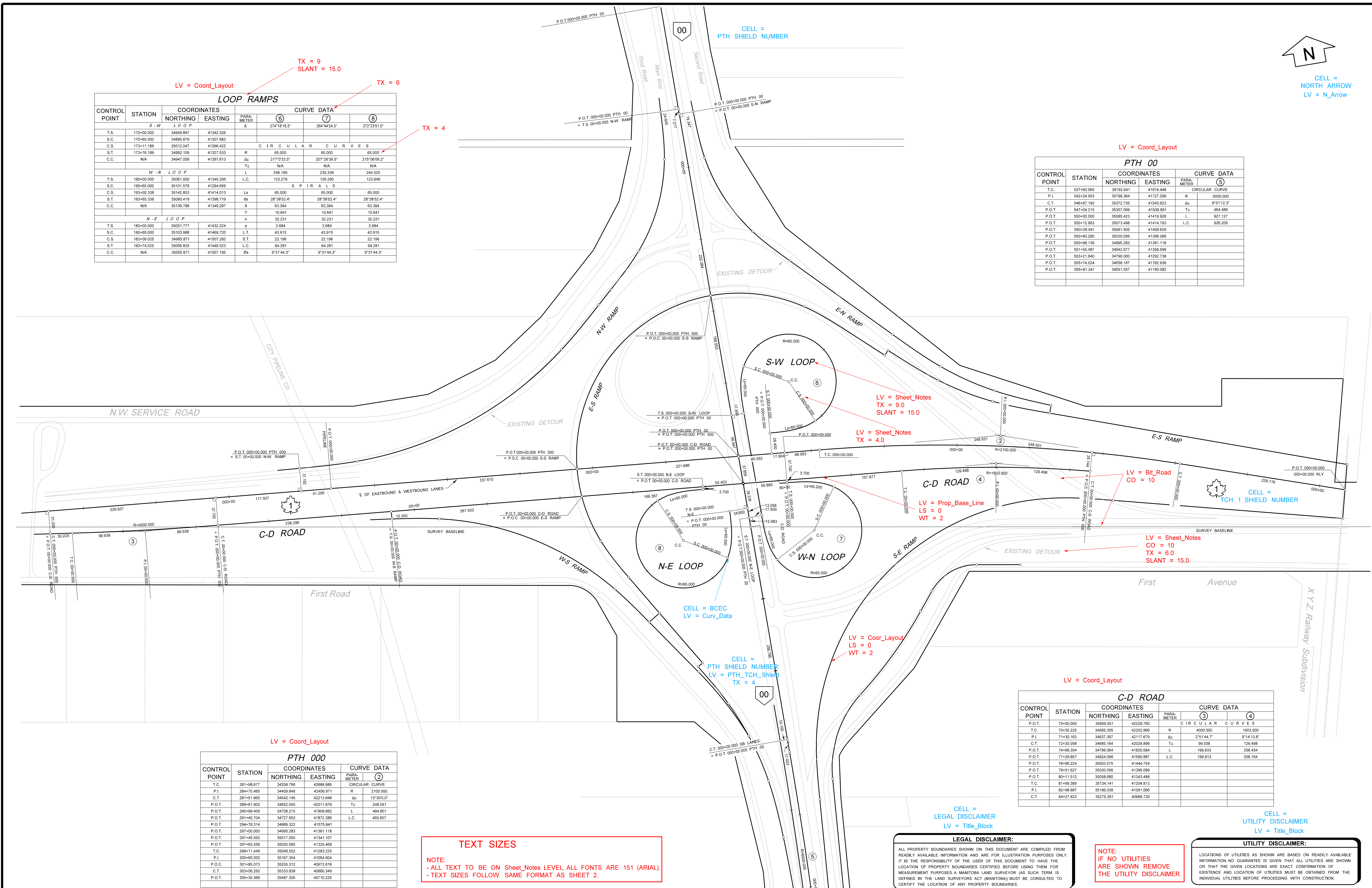
CONTROL POINT	STATION	COORDINATES		PARA. METER	CURVE DATA		
		NORTHING	EASTING		①	②	③
T.C.	281+68.877	34238.709	42688.899				
P.I.	284+75.465	34409.848	42459.971	R	2100.000		
C.T.	287+51.965	34542.145	42213.848	Δc	13°30'0.0"		
P.O.T.	289+91.902	34852.050	42011.879	Tc	248.551		
P.O.T.	290+09.409	34718.215	41988.882	L	484.801		
P.O.T.	291+40.704	34727.853	41872.389	L.C.	493.657		
P.O.T.	294+78.314	34889.322	41575.841				
P.O.T.	297+00.000	34895.283	41381.118				
P.O.T.	297+45.552	35017.055	41341.107				
P.O.T.	297+63.356	35025.555	41325.489				
T.C.	298+11.449	35048.552	41283.225				
P.I.	300+00.000	35167.354	41064.904				
P.O.C.	301+85.073	35255.312	40972.816				
C.T.	303+06.250	35333.839	40860.349				
P.O.T.	305+30.366	35487.305	40710.225				

TEXT SIZES
 NOTE:
 - ALL TEXT TO BE ON Sheet_Notes LEVEL, ALL FONTS ARE 151 (ARIAL).
 - TEXT SIZES FOLLOW SAME FORMAT AS SHEET 2.

LEGAL DISCLAIMER:
 ALL PROPERTY BOUNDARIES SHOWN ON THIS DOCUMENT ARE COMPILED FROM READILY AVAILABLE INFORMATION AND ARE FOR ILLUSTRATION PURPOSES ONLY. IT IS THE RESPONSIBILITY OF THE USER OF THIS DOCUMENT TO HAVE THE LOCATION OF PROPERTY BOUNDARIES CERTIFIED BEFORE USING THEM FOR MEASUREMENT PURPOSES. A MANITOBA LAND SURVEYOR (AS SUCH TERM IS DEFINED IN THE LAND SURVEYORS ACT (MANITOBA)) MUST BE CONSULTED TO CERTIFY THE LOCATION OF ANY PROPERTY BOUNDARIES.

NOTE:
 IF NO UTILITIES ARE SHOWN REMOVE THE UTILITY DISCLAIMER.

UTILITY DISCLAIMER:
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DATE	REVISIONS	APPROVED	LEGEND

NOTE:
 ON LAYOUT SHEETS, IF LEGEND IS UNNECESSARY, REMOVE THE LEGEND.

BASE DATA INFORMATION/GENERAL NOTES
 BASED ON ORIGINAL PLANS:
 PROPOSED LOCATION PLAN NO. 0000
 PROPOSED PROFILE NO. 000008
 SKETCH PLAN NOS. SP-000
 FUNCT. DESIGN STUDY N/A
 UTM CO-ORDINATE SYSTEM ID NAD83 - 2011 (14 OR 15)
 FILE PATH: MT STANDARD ENGINEERING DRAWINGS FOR DDD_2016.DGN

ENVIRONMENTAL APPROVALS
 CHECK ONE BELOW
 ENVIRONMENTAL CLEARANCE RECEIVED SUBJECT TO MIT ENVIRONMENTAL APPROVAL No. [] (approval number)
 NO ENVIRONMENTAL CLEARANCE REQUIRED
 ENVIRONMENTAL INFO REQUIRED PRIOR TO PLOTTING ON MYLAR

DESIGNED BY: [] REGIONAL APPROVAL
 REVIEWED BY: [] DIRECTOR OF REGIONAL OPERATIONS
 DATE: []

SHEET DESCRIPTION
 PROPOSED INTERCHANGE LAYOUT & CO-ORDINATE DETAILS
 CELL = DDD Sheets
 LV = Title_Block

MANITOBA INFRASTRUCTURE
 PROPOSED DETAILED DESIGN DRAWINGS OF
 P.T.H. No. 00
 (P.T.H. No. 00 TO 0.0km WEST OF P.T.H. No. 00)
 BASE AND BITUMINOUS PAVEMENT
 PREPARED BY: [] DATE DRAWN: [] SCALE: [] SHEET: [] PLAN No. []
 REGION No. 00 12 AUGUST 2016 1:2000 9 OF 9

CO - ORDINATE LAYOUT SHEET.
 THE RECOMMENDED SCALE IS 1 : 2000

DRAFTING STANDARDS MUST CONFORM WITH THE STANDARDS OUTLINED IN "MANITOBA INFRASTRUCTURE AND TRANSPORTATION'S CADD STANDARDS AND PLANS PREPARATION MANUAL FOR ROADWAY PROJECTS" DATED FEBRUARY 2016

THIS DRAWING ILLUSTRATES DRAWING LAYOUT AND DRAFTING STANDARDS ONLY.
 ALL DRAWINGS ARE TO BE SUBMITTED ON MYLAR.

DATE	REVISIONS	APPROVED

RECOMMENDED
 DIRECTOR OF HIGHWAY PLANNING AND DESIGN BRANCH
 APPROVED

SECTION
 TITLE: DETAILED DESIGN DRAWINGS
 DRAFTING DATE: AUG 12/16
 SECTION: 9

EXECUTIVE DIRECTOR OF HIGHWAY ENGINEERING