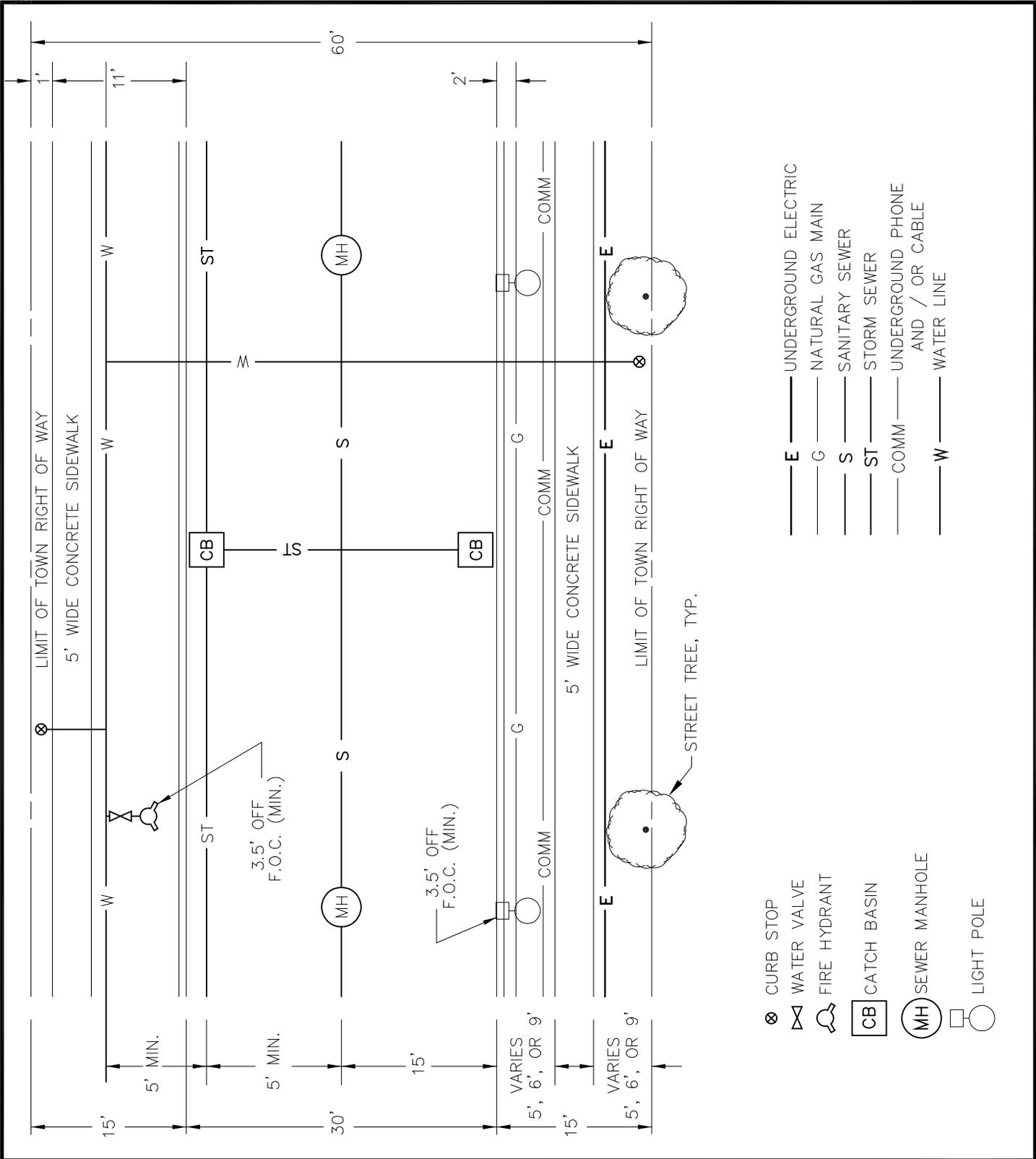


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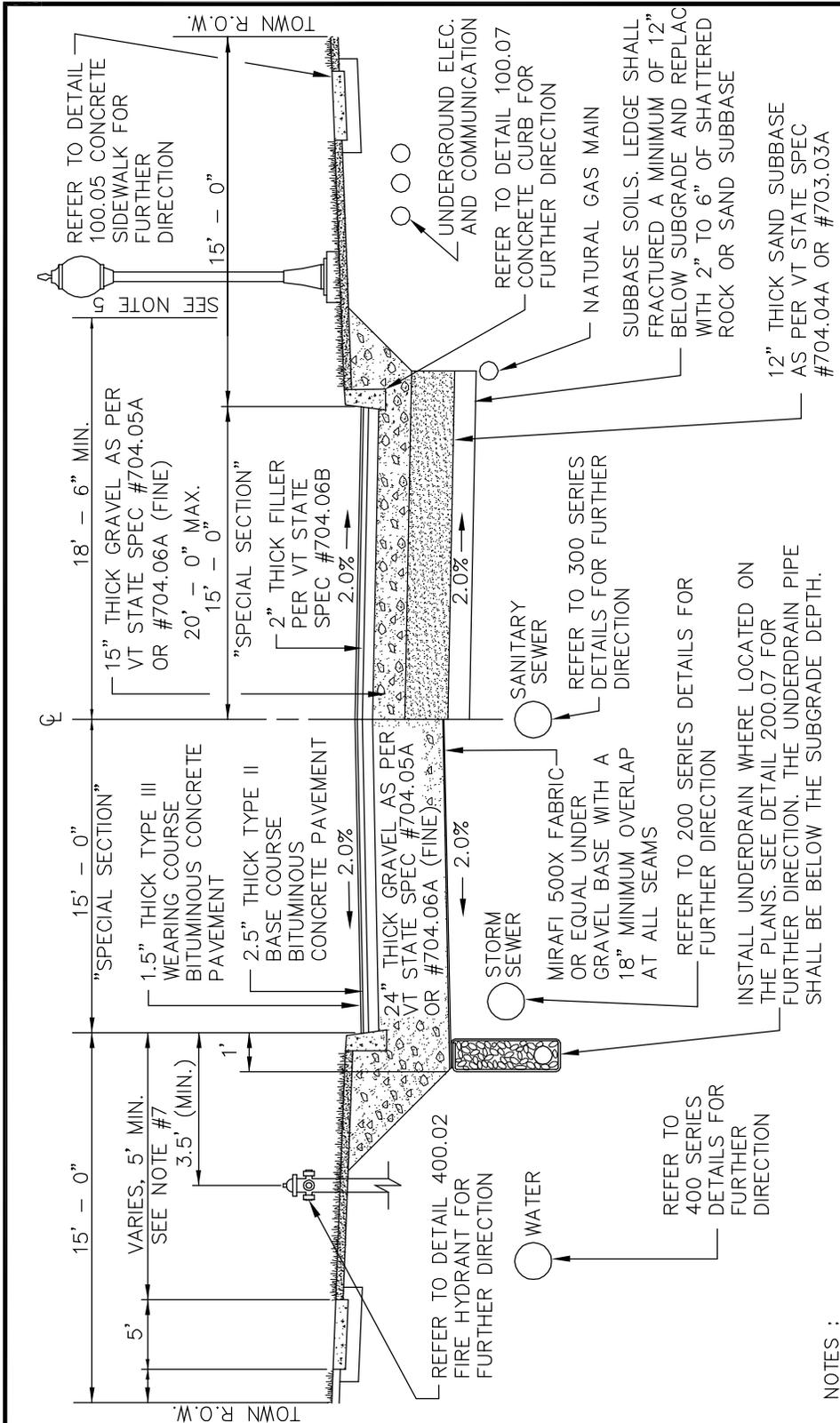
- CURB STOP
- WATER VALVE
- FIRE HYDRANT
- CATCH BASIN
- SEWER MANHOLE
- LIGHT POLE
- UNDERGROUND ELECTRIC
- NATURAL GAS MAIN
- SANITARY SEWER
- STORM SEWER
- UNDERGROUND PHONE AND / OR CABLE
- WATER LINE



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TOWN OF ESSEX, VERMONT  
 STANDARD SPECIFICATIONS FOR CONSTRUCTION  
**STREET PLAN VIEW**  
**TYPICAL**

Detail No:	100.01
Scale:	NOT TO SCALE
Date:	JAN. 2017
A-1	



- NOTES :
1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE TOWN PUBLIC WORKS REQUIREMENTS, THE VERMONT STATE STANDARD SPECIFICATIONS FOR CONSTRUCTION, AND THE APPROVED ENGINEERING PLANS AND SPECIFICATIONS.
  2. SOIL BORINGS AND TEST PITS SHALL BE REQUIRED BY THE TOWN TO DETERMINE WHETHER THE STANDARD OR SPECIAL CROSS-SECTION SHALL BE USED.
  3. THE STANDARD SECTION MAY BE USED WHEN THE SUBGRADE SOILS TO A DEPTH OF 36" BELOW FINISH GRADE ARE SOIL CLASSIFICATION A-1-a OR A-1-b.
  4. THE ROAD FINISH GRADE SHALL HAVE A LONGITUDINAL SLOPE OF 0.5 %.
  5. IF THE TOP COURSE OF PAVEMENT IS NOT INSTALLED WITHIN 60 DAYS OF THE BASE COURSE, THE CONTRACTOR SHALL APPLY EMULSION TO THE FULL WIDTH OF THE BASE COURSE BEFORE INSTALLING THE TOP COURSE.
  6. EMULSION SHALL BE PLACED ON THE FACE OF THE CURB WHERE IT WILL BE IN CONTACT WITH THE NEW PAVEMENT.
  7. DESIGNS SHOULD MAXIMIZE GREEN SPACE WIDTH TO THE EXTENT PRACTICABLE.

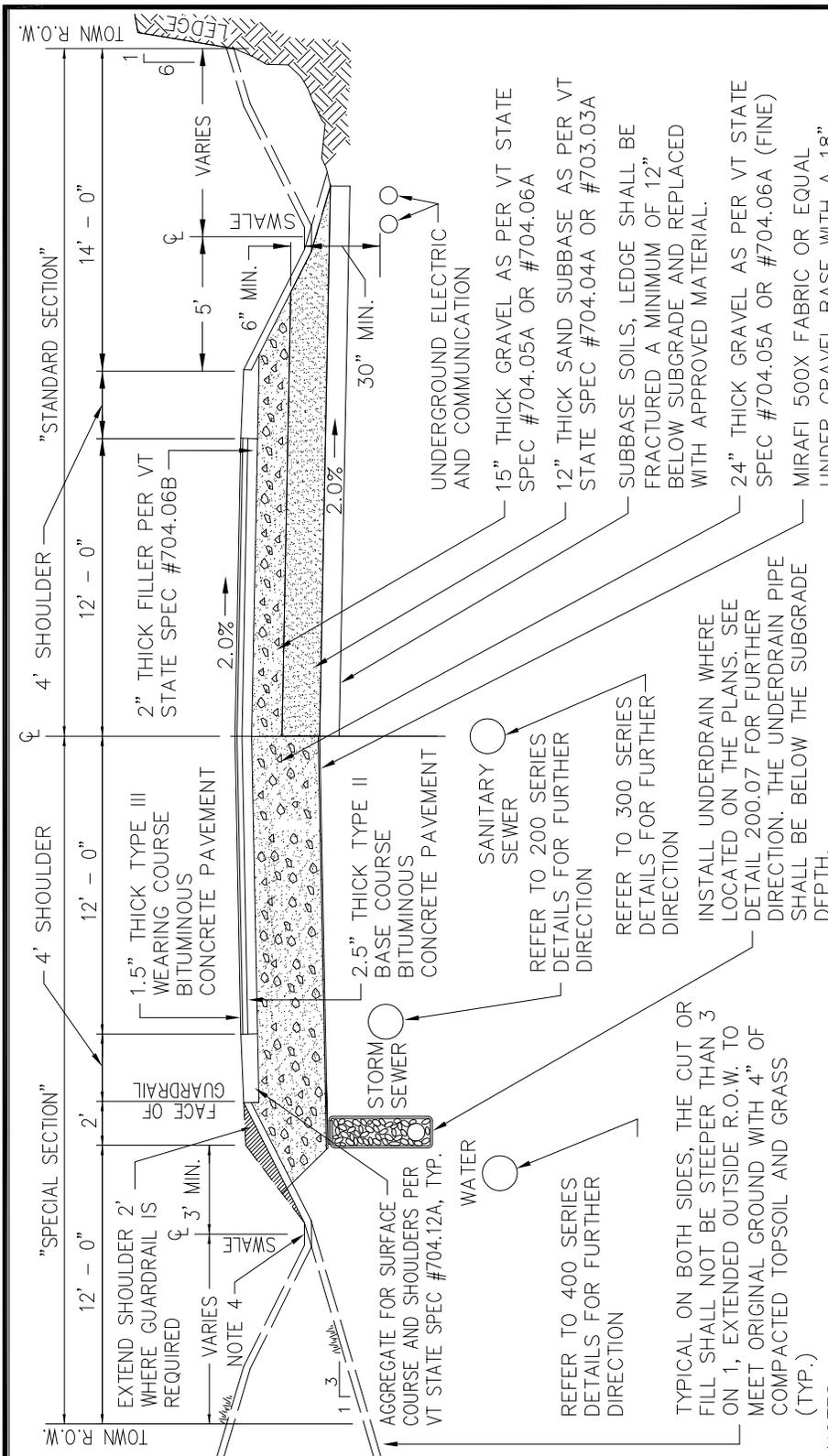


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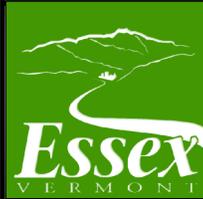
TOWN OF ESSEX, VERMONT  
STANDARD SPECIFICATIONS FOR CONSTRUCTION

URBAN STREET

Detail No:	100.02
Scale:	NOT TO SCAL
Date:	JAN. 2017
<b>A-2</b>	



- NOTES :
1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE TOWN OF ESSEX PUBLIC WORKS REQUIREMENTS, THE VERMONT STATE STANDARD SPECIFICATIONS FOR CONSTRUCTION, AND THE APPROVED ENGINEERING PLANS AND SPECIFICATIONS.
  2. SOIL BORINGS AND TEST PITS SHALL BE REQUIRED BY THE TOWN TO DETERMINE WHETHER THE STANDARD OR SPECIAL CROSS-SECTION SHALL BE USED.
  3. THE STANDARD SECTION MAY BE USED WHEN THE SUBGRADE SOILS TO A DEPTH OF 36" BELOW FINISH GRADE ARE SOIL CLASSIFICATION A-1-a OR A-1-b.
  4. REFER TO DETAIL 200.06 FOR SPECIFIC INFORMATION REGARDING DRAINAGE SWALE CONSTRUCTION. WHERE THE ROADWAY GRADE EXCEEDS 5.0%, DRAINAGE DITCHES SHALL BE STONE LINED.
  5. THE ROAD FINISH GRADE SHALL HAVE A MINIMUM SLOPE OF 0.5 %.
  6. IF THE TOP COURSE OF PAVEMENT IS NOT INSTALLED WITHIN 60 DAYS OF THE BASE COURSE, THE CONTRACTOR SHALL APPLY EMULSION TO THE FULL WIDTH OF THE BASE COURSE BEFORE INSTALLING THE TOP COURSE.
  7. GUARD RAIL SHALL BE USED WHEN THE HEIGHT OF FILL AT THE SHOULDER POINT IS GREATER THAN 10 VERTICAL FEET.
  8. SHALLOW DITCHES MAY BE INSTALLED WHEN A CLOSED DRAINAGE SYSTEM WITH UNDERDRAINS ARE USED.

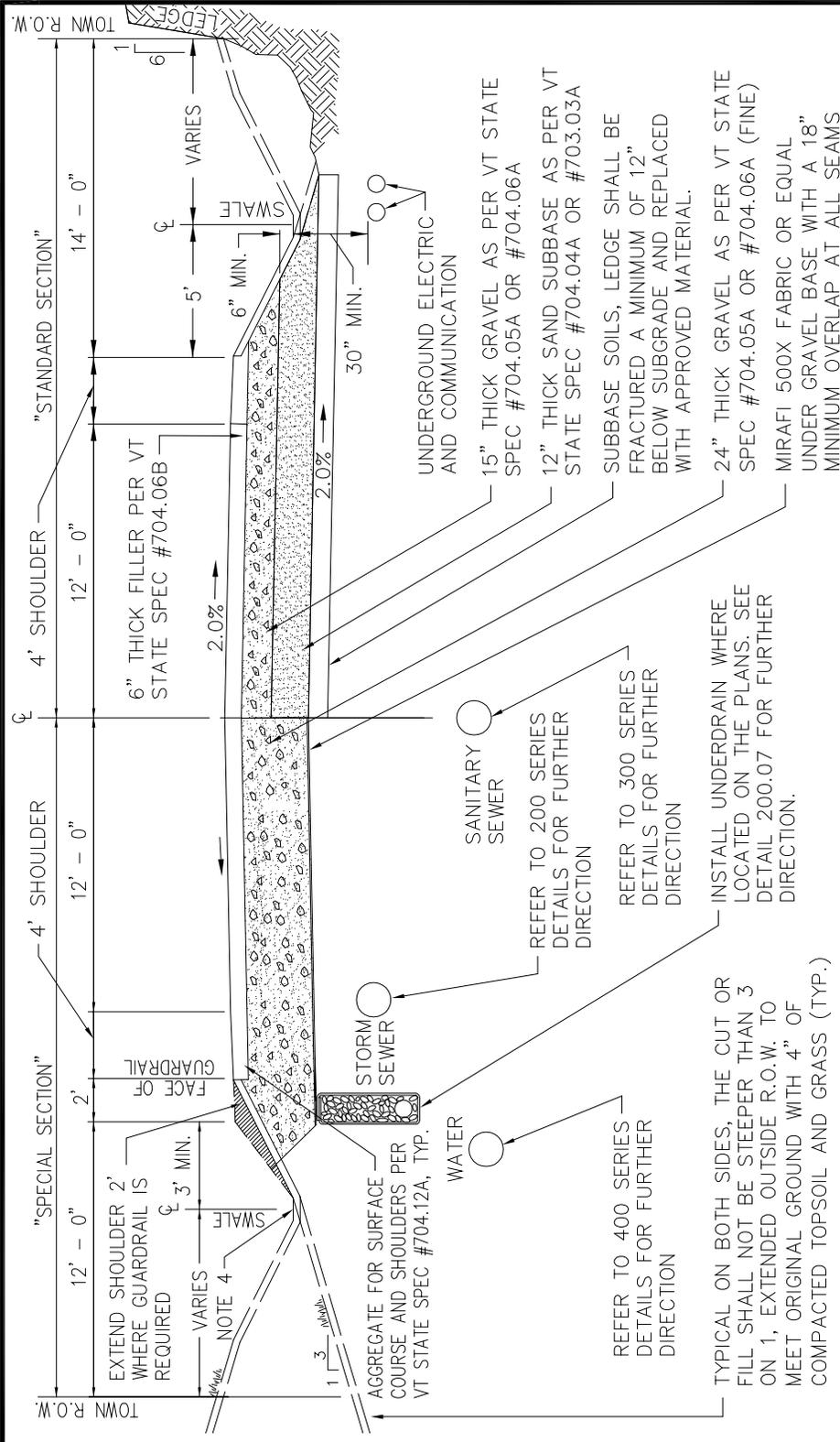


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**TOWN OF ESSEX, VERMONT  
STANDARD SPECIFICATIONS FOR CONSTRUCTION  
TYPE A RURAL ROAD  
(PAVED)**

Detail No:	100.03
Scale:	NOT TO SCALE
Date:	JAN. 2017
<b>A-3</b>	



**NOTES:**

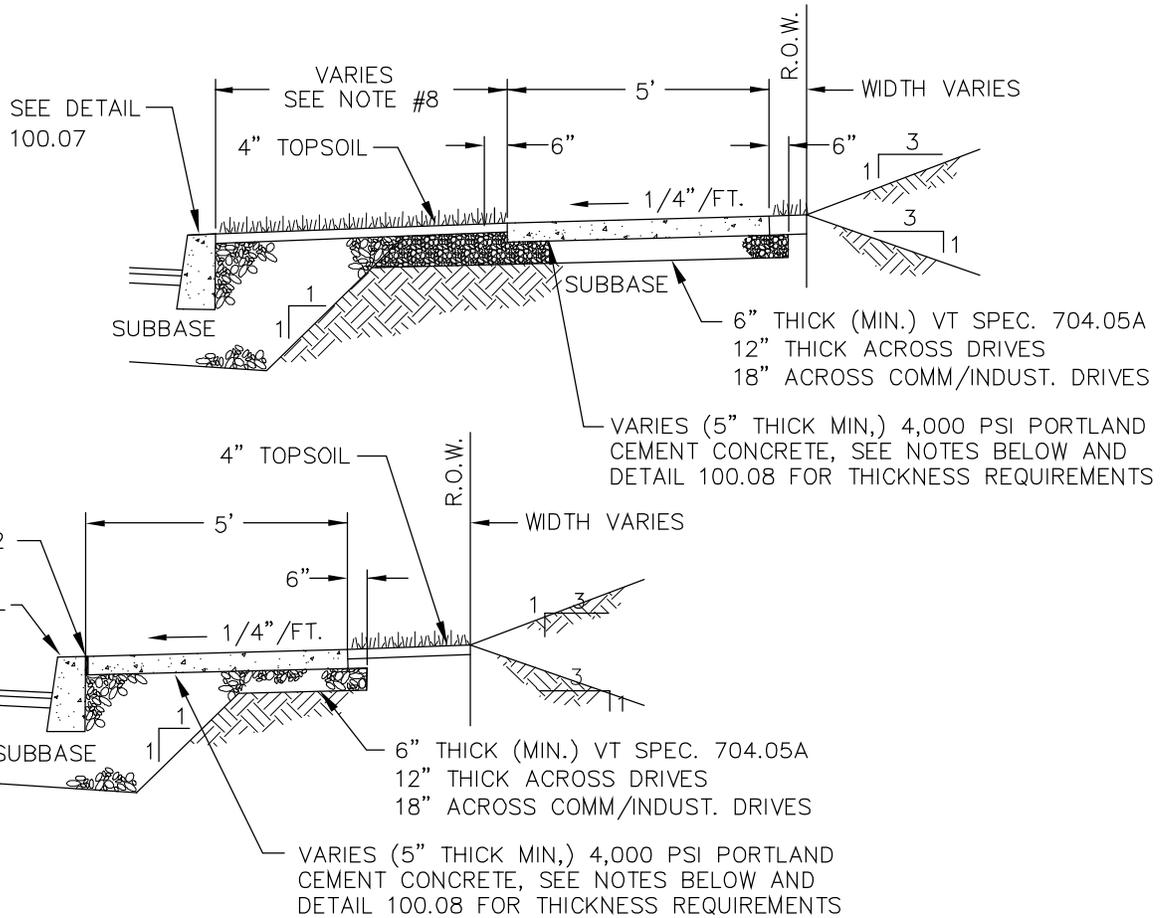
1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE TOWN PUBLIC WORKS REQUIREMENTS, THE VERMONT STATE STANDARD SPECIFICATIONS FOR CONSTRUCTION, AND THE APPROVED ENGINEERING PLANS AND SPECIFICATIONS.
2. SOIL BORINGS AND TEST PITS SHALL BE REQUIRED BY THE TOWN TO DETERMINE WHETHER THE STANDARD OR SPECIAL CROSS-SECTION SHALL BE USED.
3. THE STANDARD SECTION MAY BE USED WHEN THE SUBGRADE SOILS TO A DEPTH OF 36" BELOW FINISH GRADE ARE SOIL CLASSIFICATION A-1-a OR A-1-b.
4. REFER TO DETAIL 200.06 FOR SPECIFIC INFORMATION REGARDING DRAINAGE SWALE CONSTRUCTION. WHERE THE ROADWAY GRADE EXCEEDS 5.0%, DRAINAGE DITCHES SHALL BE STONE LINED.
5. THE ROAD FINISH GRADE SHALL HAVE A MINIMUM SLOPE OF 0.5 %.
6. GUARD RAIL SHALL BE USED WHEN THE HEIGHT OF FILL AT THE SHOULDER POINT IS GREATER THAN 10 VERTICAL FEET.
7. SHALLOW DITCHES MAY BE INSTALLED WHEN A CLOSED DRAINAGE SYSTEM WITH UNDERDRAINS ARE USED.



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TOWN OF ESSEX, VERMONT  
STANDARD SPECIFICATIONS FOR CONSTRUCTION  
  
TYPE B RURAL ROAD  
(GRAVEL)

Detail No:	100.04
Scale:	NOT TO SCALE
Date:	JAN. 2017
<b>A-4</b>	



**NOTES:**

1. CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 3,500 PSI AT 28 DAYS AND SHALL BE AIR ENTRAINED WITH AN ADMIXTURE PRODUCING AN AIR CONTENT OF 5% TO 7% BY VOLUME.
2. HALF INCH (1/2") TRANSVERSE EXPANSION JOINTS SHALL BE PLACED AT INTERVALS NOT EXCEEDING TWENTY FEET (20'). SIDEWALKS SHALL BE SCORED TO A DEPTH OF ONE INCH (1") EVERY FIVE (5') FEET. CURB AND SIDEWALK SECTIONS SHALL BE SEPARATED BY A PREMOLDED JOINT FILLER.
3. AFTER THE INITIAL CURING PERIOD IS OVER (APPROXIMATELY 28 DAYS), ALL EXPOSED SURFACES SHALL RECEIVE TWO COATS OF ANTI-SPALLING COMPOUND.
4. SEE WRITTEN SPECIFICATION FOR APPROVED CONSTRUCTION METHODS AND MATERIAL REQUIREMENTS.
5. SIDEWALK BASE SHALL BE VT SPEC. 704.05A OR APPROVED EQUAL
6. SEE DETAIL 100.08 FOR THICKNESS OF SIDEWALK AT DRIVE APRONS
7. WHEN CONNECTING NEW SIDEWALK TO AN EXISTING SIDEWALK, STEEL DOWELS SHALL BE DRILLED INTO THE EXISTING SIDEWALK A MINIMUM OF 6" AND SHALL EXTEND INTO THE NEW SIDEWALK A MINIMUM OF 6".
8. DESIGNS SHOULD MAXIMIZE GREEN SPACE WIDTH TO THE EXTENT PRACTICABLE



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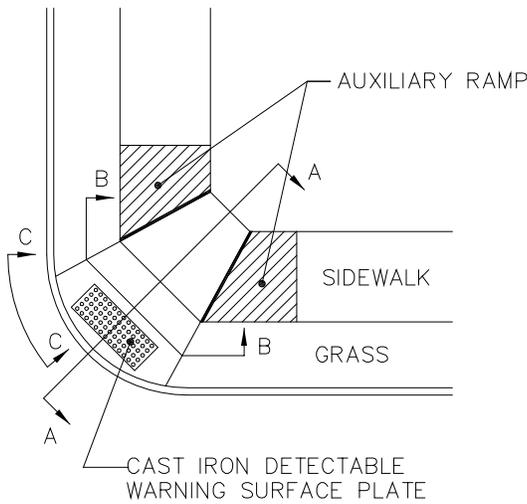
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STANDARD SPECIFICATIONS FOR CONSTRUCTION**

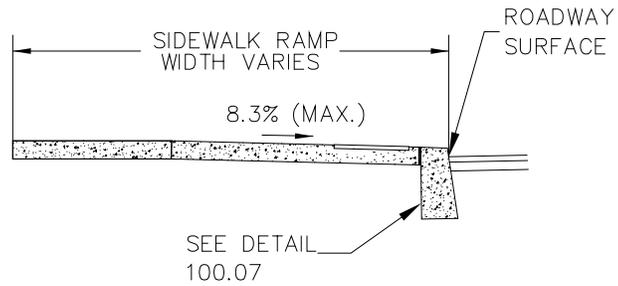
**CONCRETE SIDEWALK**

Detail No: 100.05  
Scale: NOT TO SCALE  
Date: MAR. 2017

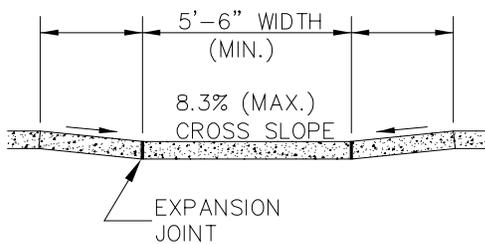
**A-5**



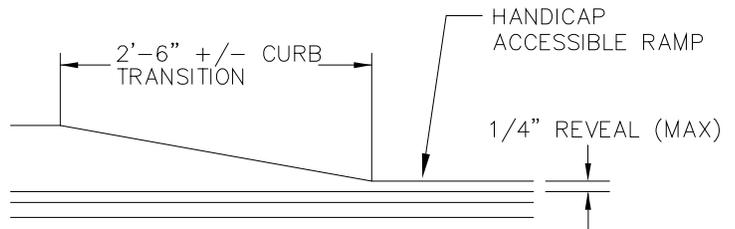
**PLAN**



**SECTION A - A**



**SECTION B - B**



**SECTION C - C**

**NOTES:**

1. SIDEWALK RAMPS SHALL BE INSTALLED AT ALL STREET INTERSECTIONS AND WHEREVER NEW SIDEWALKS AND CURBING INTERSECT.
2. THE MAXIMUM SLOPE ON A HANDICAP ACCESSIBLE RAMP IS 1" PER 12" OR 8.3%.
3. DETECTABLE WARNING SURFACE PLATES SHALL BE INSTALLED AT THE END OF EACH HANDICAP ACCESSIBLE RAMP.
4. APRON SUBBASE SHALL BE 12" THICK MINIMUM.
5. A BROOM FINISH SHALL BE APPLIED TO ALL CONCRETE ADJACENT TO THE DETECTABLE WARNING SURFACES.
6. ALL SIDEWALK RAMPS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT VERSION OF THE MUTCD.



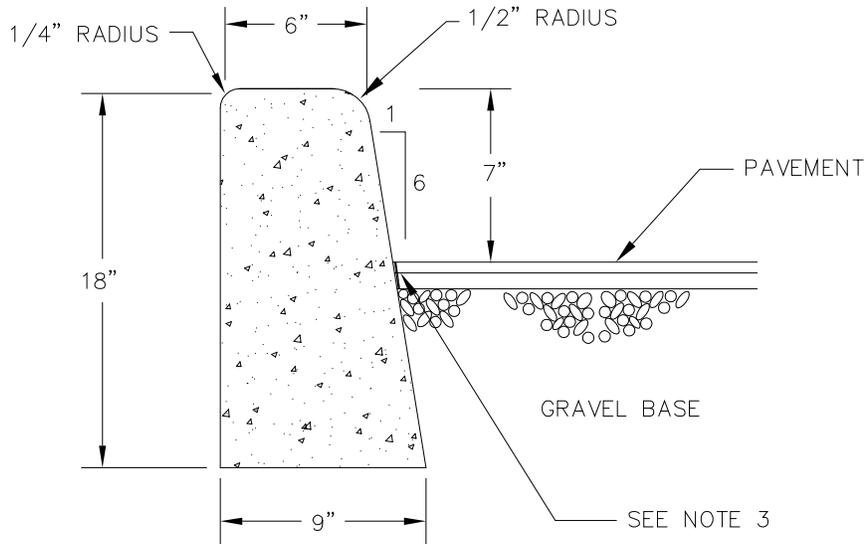
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STANDARD SPECIFICATIONS FOR CONSTRUCTION

CONCRETE SIDEWALK RAMPS

Detail No: 100.06  
Scale: NOT TO SCALE  
Date: JAN. 2017

**A-6**



END AREA = 0.94 S.F.

NOTES :

- 1) CURBING SHALL BE CONSTRUCTED WITH 3,500 PSI, (CLASS B) CONCRETE IN 10' SECTIONS WITH 1/8" JOINTS BETWEEN SECTIONS.
- 2) CURBING EXPANSION JOINTS SHALL BE CONSTRUCTED EVERY 20' AND SHALL BE CONSTRUCTED OF MATERIAL CONFORMING TO AASHTO DESIGNATION M-153 (1/2" SPONGE RUBBER OR CORK).
- 3) PRIOR TO PAVING, THE PORTION OF CURBING TO BE IN CONTACT WITH THE PAVEMENT SHALL BE COATED WITH EMULSIFIED ASPHALT.
- 4) ALL EXPOSED CONCRETE CURB SHALL RECEIVE TWO COATS OF ANTI-SPALLING COMPOUND AFTER THE INITIAL CURING PERIOD (APPROXIMATELY 28 DAYS).



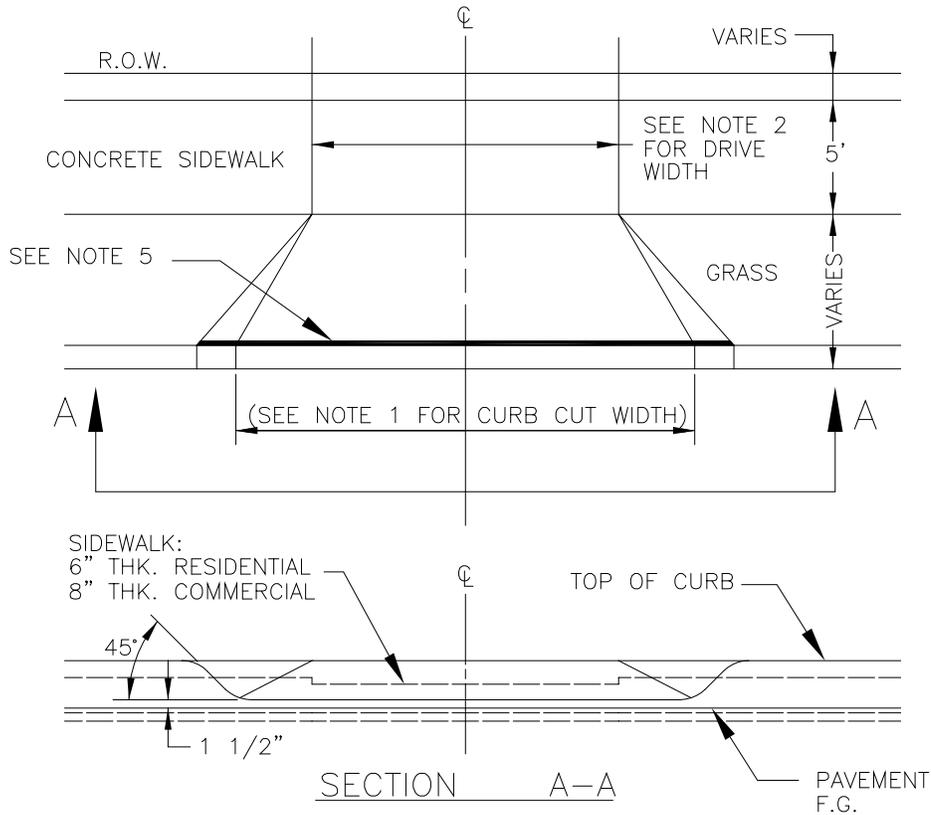
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TOWN OF ESSEX, VERMONT  
STANDARD SPECIFICATIONS FOR CONSTRUCTION

CONCRETE CURB

Detail No:	100.07
Scale:	NOT TO SCALE
Date:	JAN. 2017

**A-7**



**NOTES :**

- 1) CURB CUT WIDTHS SHALL BE AS FOLLOWS  
 SINGLE DRIVE: 15 FEET (MIN.)  
 DOUBLE DRIVE: 20 FEET (MAX.)  
 COMMERCIAL DRIVE: 45 FEET (MAX.)
- 2) DRIVE WIDTHS SHALL BE AS FOLLOWS  
 SINGLE DRIVE: 10 FEET (MIN.)  
 DOUBLE DRIVE: 15 FEET (MAX.)  
 COMMERCIAL DRIVE: 40 FEET (MAX.)
- 3) ALL APRONS WITHIN PUBLIC RIGHTS-OF-WAY SHALL BE PAVED.
- 4) APRON SUBBASE SHALL MATCH THE ROADWAY SUBBASE FOR MATERIALS AND THICKNESS.
- 5) CURBING EXPANSION JOINTS SHALL BE CONSTRUCTED BETWEEN DRIVE APRON AND CURB. (SEE DETAIL 100.07)



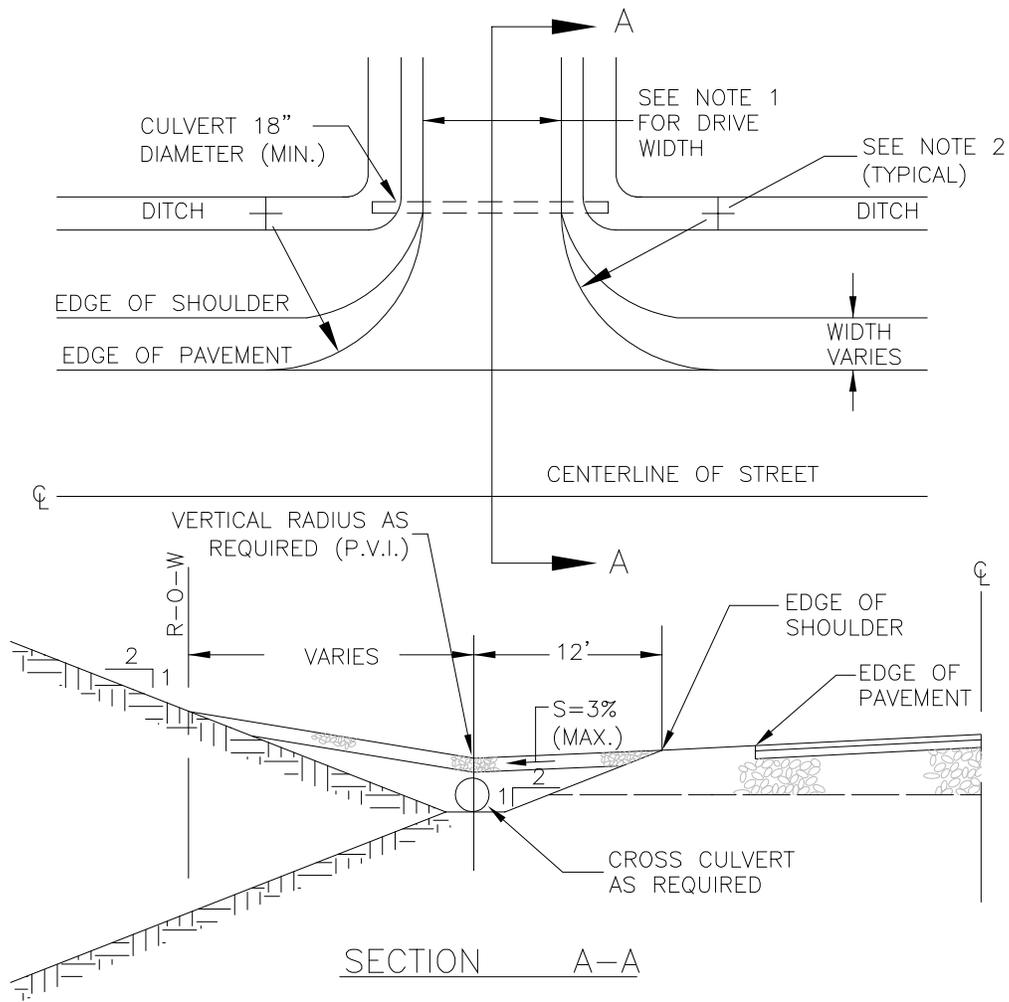
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**TOWN OF ESSEX, VERMONT  
 STANDARD SPECIFICATIONS FOR CONSTRUCTION**

**DRIVEWAY APRON**

Detail No: 100.08  
 Scale: NOT TO SCALE  
 Date: JAN. 2017

**A-8**



**NOTES :**

- 1) DRIVE WIDTHS SHALL BE AS FOLLOWS  
 SINGLE DRIVE: 10 FEET (MIN.)  
 DOUBLE DRIVE: 15 FEET (MAX.)  
 COMMERCIAL DRIVE: 40 FEET (MAX.)
  
- 2) EDGE OF PAVEMENT RADII  
 MAJOR / COLLECTOR ROAD: 30 FEET  
 MINOR ROAD / DEAD END: 25 FEET  
 COMMERCIAL / INDUSTRIAL: 30 FEET (MIN.)
  
- 3) MAXIMUM DRIVE GRADE SHALL BE 3%  
 FROM PVI TO EDGE OF SHOULDER



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**TOWN OF ESSEX, VERMONT  
 STANDARD SPECIFICATIONS FOR CONSTRUCTION**

**RURAL DRIVEWAY**

Detail No: 100.09  
 Scale: NOT TO SCALE  
 Date: JAN. 2017

**A-9**



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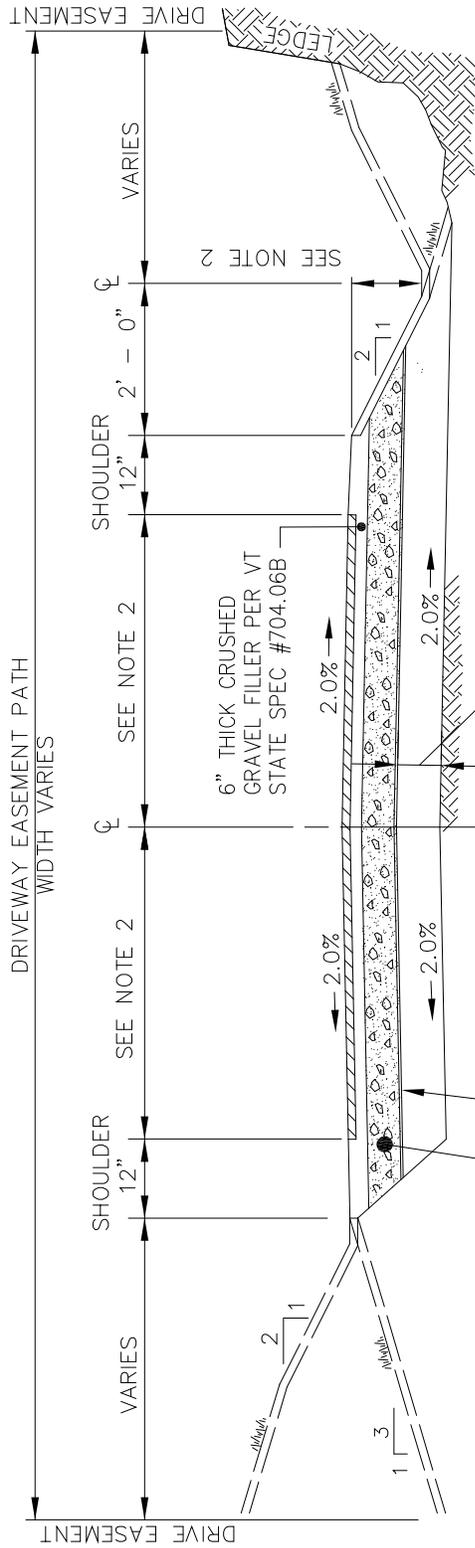
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STANDARD SPECIFICATIONS FOR CONSTRUCTION**

**DRIVEWAY (TYPE A)**

Detail No: 100.10  
Scale: NOT TO SCALE  
Date: JAN. 2017

**A-10**



24" THICK GRAVEL AS PER VT STATE SPEC. #704.05A (FINE)

MIRAFI 500X FABRIC OR EQUAL UNDER GRAVEL BASE WITH A 18" MINIMUM OVERLAP AT ALL SEAMS

6" THICK CRUSHED GRAVEL FILLER PER VT STATE SPEC #704.06B

2.0%

2.0%

2.0%

SHOULDER 12" - 0"

SEE NOTE 2

2' - 0"

VARIES

DRIVEWAY EASEMENT PATH WIDTH VARIES

DRIVE EASEMENT

IF LEDGE IS ENCOUNTERED AT OR ABOVE SUBGRADE, IT SHALL BE FRACTURED A MINIMUM OF 12" BELOW SUBGRADE AND WITH THE TOP 2" TO 6" REPLACED WITH SHATTERED ROCK OR SAND SUBBASE.

**NOTES:**

1. THE TYPE A STANDARD DRIVEWAY SECTION IS TO BE USED FOR DRIVEWAYS SERVING ONE TO TWO DWELLINGS.
2. THE MINIMUM WIDTH OF A TYPE A DRIVE SHALL BE 10' AND THE MAXIMUM WIDTH SHALL BE 15'
3. INSTALL SURFACE DRAINAGE AS REQUIRED. REFER TO DETAIL 200.06 FOR SPECIFIC INFORMATION REGARDING DRAINAGE.
4. THE DRIVEWAY GRADES SHALL NOT EXCEED 3.0% WITHIN THE FIRST 20' OFF OF THE EDGE OF THE TRAVELED WAY. BEYOND THAT, THE MAXIMUM GRADE SHALL BE 14%.
5. DRIVEWAYS EXCEEDING 900' IN LENGTH SHALL INCLUDE PULL-OFFS FOR EMERGENCY VEHICLES. THE NUMBER AND PLACEMENT OF PULL-OFFS SHALL BE DETERMINED BY THE TOWN OF ESSEX.
6. ALL CURB CUT DRIVE APRONS SHALL BE PAVED. FOR DRIVES WITH SIDEWALKS WITHIN THE RIGHT-OF-WAY, THE PAVED APRON SHALL EXTEND 30' BACK FROM THE BACK EDGE OF THE SIDEWALK. FOR DRIVES WITH NO PEDESTRIAN FACILITY, THE APRON SHALL EXTEND 50' FROM THE EDGE OF THE TRAVELED WAY.



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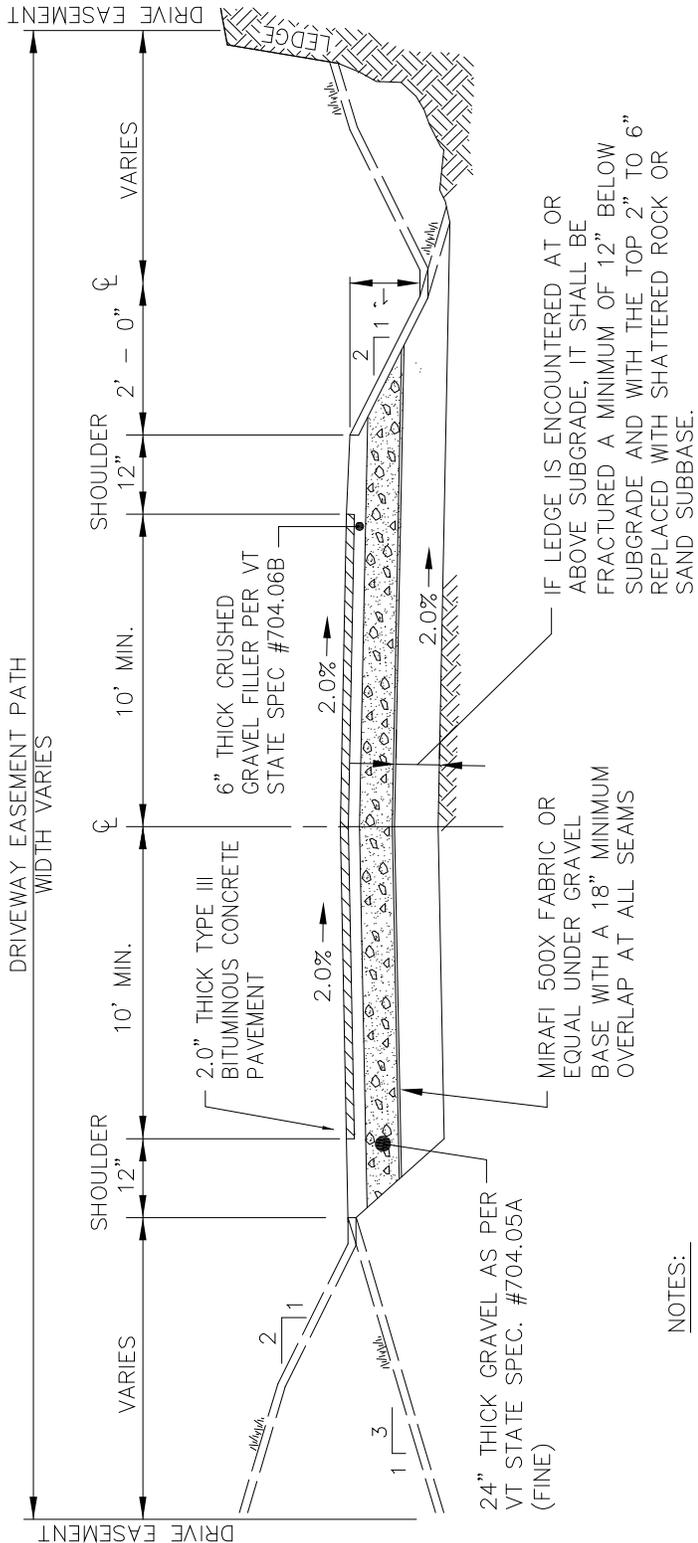
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STANDARD SPECIFICATIONS FOR CONSTRUCTION**

**DRIVEWAY (TYPE B)**

Detail No: 100.11  
Scale: NOT TO SCALE  
Date: JAN. 2017

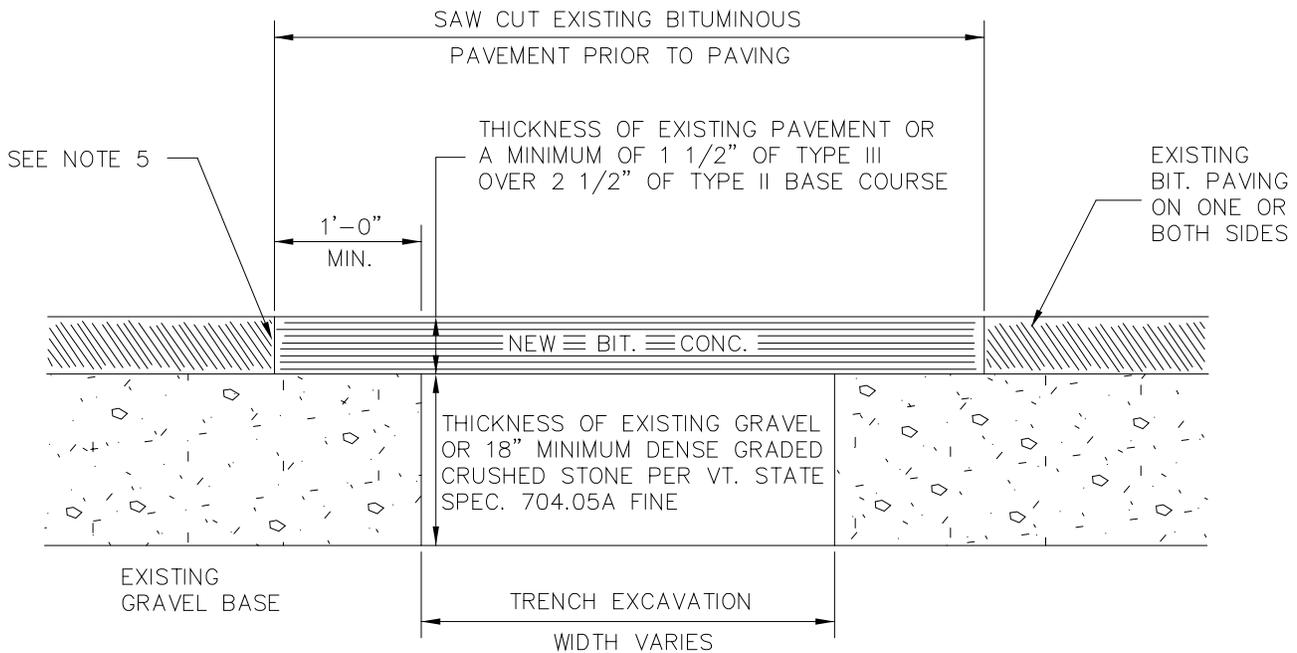
**A-11**



**NOTES:**

1. THE TYPE B STANDARD DRIVEWAY SECTION IS TO BE USED FOR DRIVEWAYS SERVING THREE TO FOUR DWELLINGS.
2. INSTALL SURFACE DRAINAGE AS REQUIRED. REFER TO DETAIL 200.06 FOR SPECIFIC INFORMATION REGARDING DRAINAGE.
3. THE DRIVEWAY GRADES SHALL NOT EXCEED 3.0% WITHIN THE FIRST 20' OFF OF THE EDGE OF THE TRAVELED WAY.
4. DRIVEWAYS EXCEEDING 900' IN LENGTH SHALL INCLUDE PULL-OFFS FOR EMERGENCY VEHICLES. THE NUMBER AND PLACEMENT OF PULL-OFFS SHALL BE DETERMINED BY THE TOWN OF ESSEX.
5. ALL CURB CUT DRIVE APRONS SHALL BE PAVED. FOR DRIVES WITH SIDEWALKS WITHIN THE RIGHT-OF-WAY, THE PAVED APRON SHALL EXTEND 30' BACK FROM THE BACK EDGE OF THE SIDEWALK. FOR DRIVES WITH NO PEDESTRIAN FACILITY, THE APRON SHALL EXTEND 50' FROM THE EDGE OF THE TRAVELED WAY.





**NOTES :**

1. SETUP AND MAINTAIN SIGNS AND OTHER SAFETY CONTROL DEVICES.
2. RESHAPE HOLE AND PATCH AREA BY CUTTING WITH CONCRETE SAW INTO A SQUARE OR RECTANGULAR SHAPE. CUT SIDE FACES VERTICALLY. RESHAPE DOWNWARD TO SOLID MATERIAL AND AROUND HOLE TO SOLID PAVEMENT.
3. BACKFILL TRENCH IN 6" LIFTS AND COMPACT EACH LIFT TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698 STANDARD PROCTOR.
4. REMOVE ALL LOOSE MATERIAL AND THOROUGHLY SWEEP THE HOLE AREA CLEAN OF MUD AND STANDING WATER.
5. APPLY LIQUID EMULSION (RS-1) TO VERTICAL FACES IN A UNIFORM MANNER. DO NOT PUDDLE EMULSION ON BOTTOM OF THE HOLE.
6. PLACE TYPE II BASE COURSE PAVEMENT A MINIMUM OF 2 1/2" THICK.
7. FILL TOP OF HOLE WITH TYPE III BITUMINOUS CONCRETE AND COMPACT IN LIFTS OF NO MORE THAN 2". FINAL LIFT SHOULD BE 1/4" PER 1" OF LOOSE PAVEMENT BEFORE COMPACTION SO THAT AFTER COMPACTION THE PATCH IS LEVEL WITH THE EXISTING PAVEMENT. EACH LIFT SHOULD BE THOROUGHLY COMPACTED WITH A VIBRATORY PLATE COMPACTOR OR A VIBRATORY PORTABLE ROLLER. EXPERIENCE HAS SHOWN THAT 15 TO 20 PASSES ARE REQUIRED WITH A VIBRATORY ROLLER AND A MIX TEMPERATURE ABOVE 250° F ARE NECESSARY TO ENSURE GOOD COMPACTION. HAND TAMPING SHOULD ONLY BE USES FOR SMALL AREAS (LESS THAN 1 S.F.).
8. CLEAN UP AREA. DO NOT LEAVE EXCESS FILL OR EXCAVATED MATERIAL ON THE PAVEMENT. REMOVE SAFETY SIGNS AND DEVICES.



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STANDARD SPECIFICATIONS FOR CONSTRUCTION**

**TRENCH REPAIR**

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 Scale: NOT TO SCALE  
 Date: JAN. 2017

**A-13**