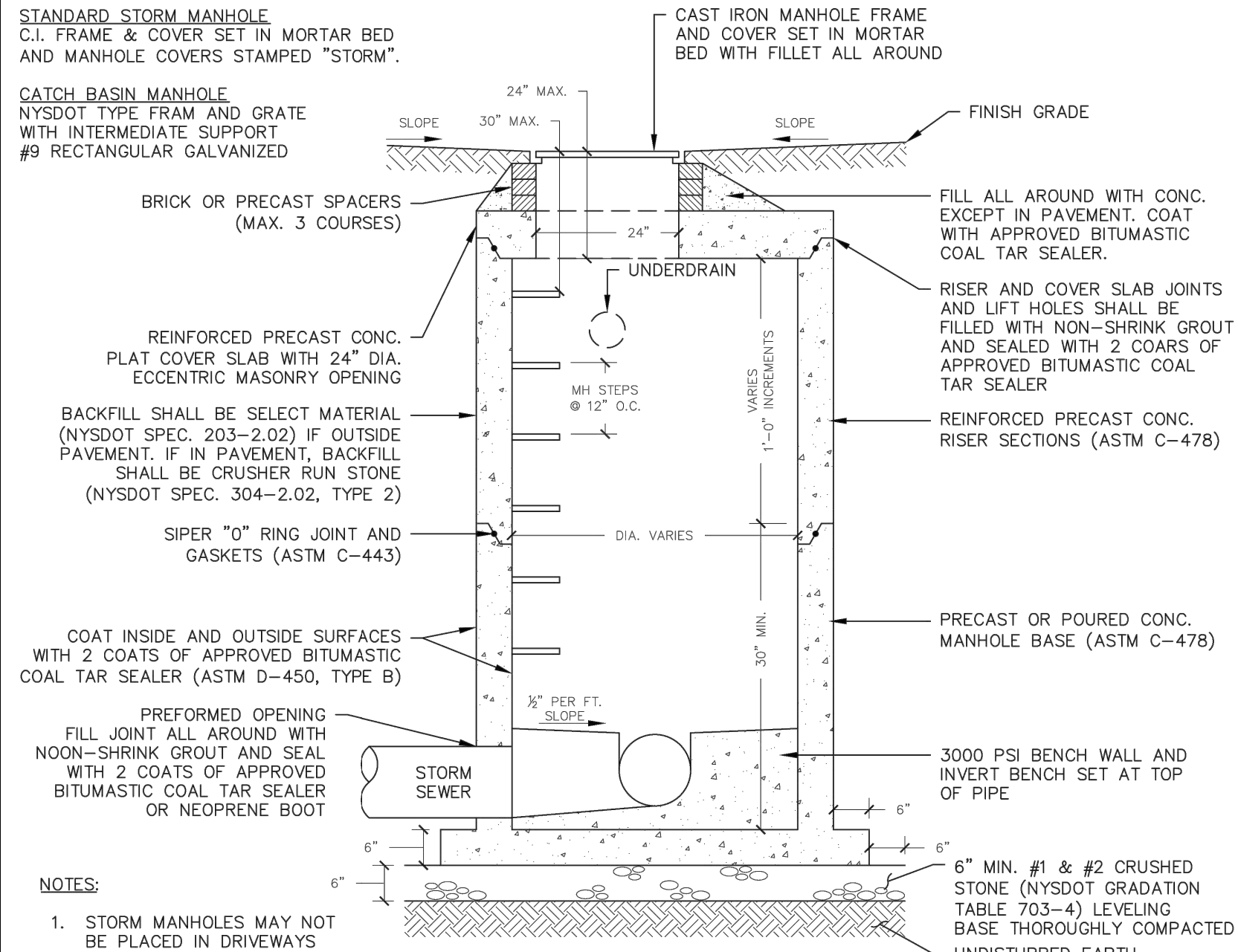
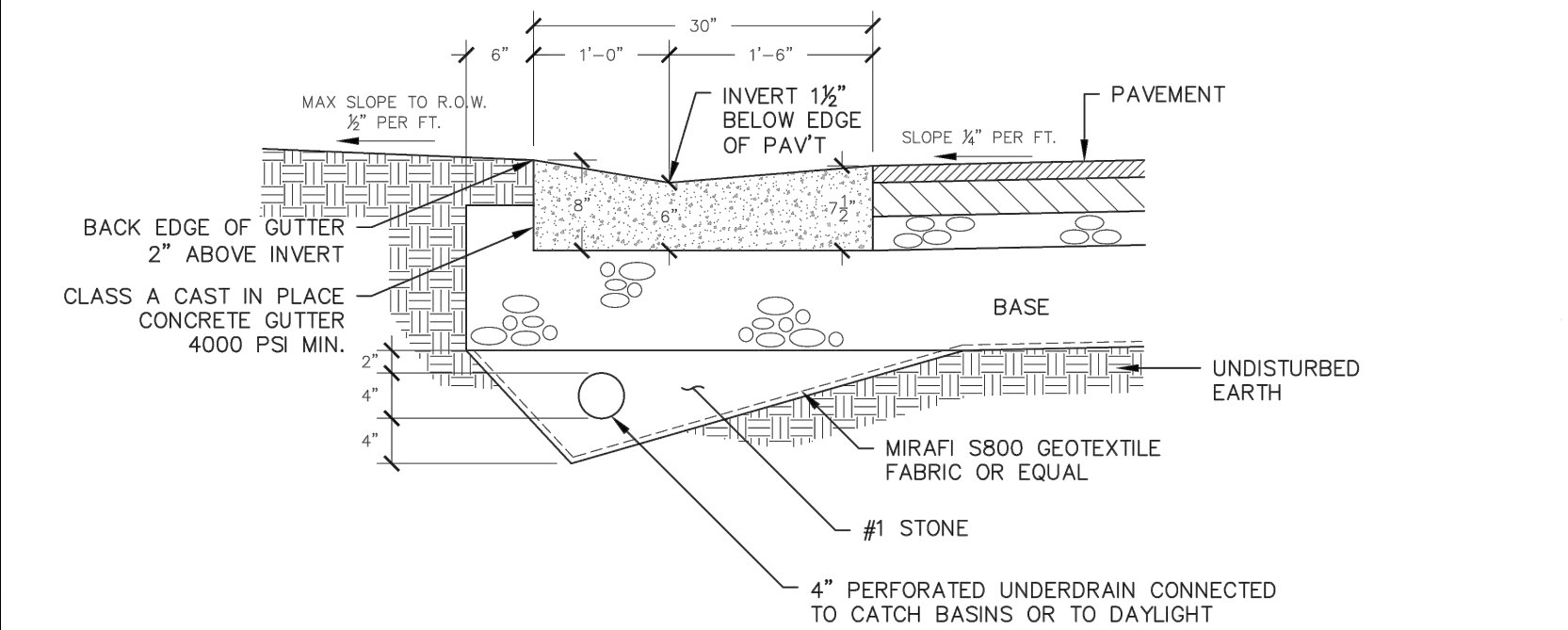


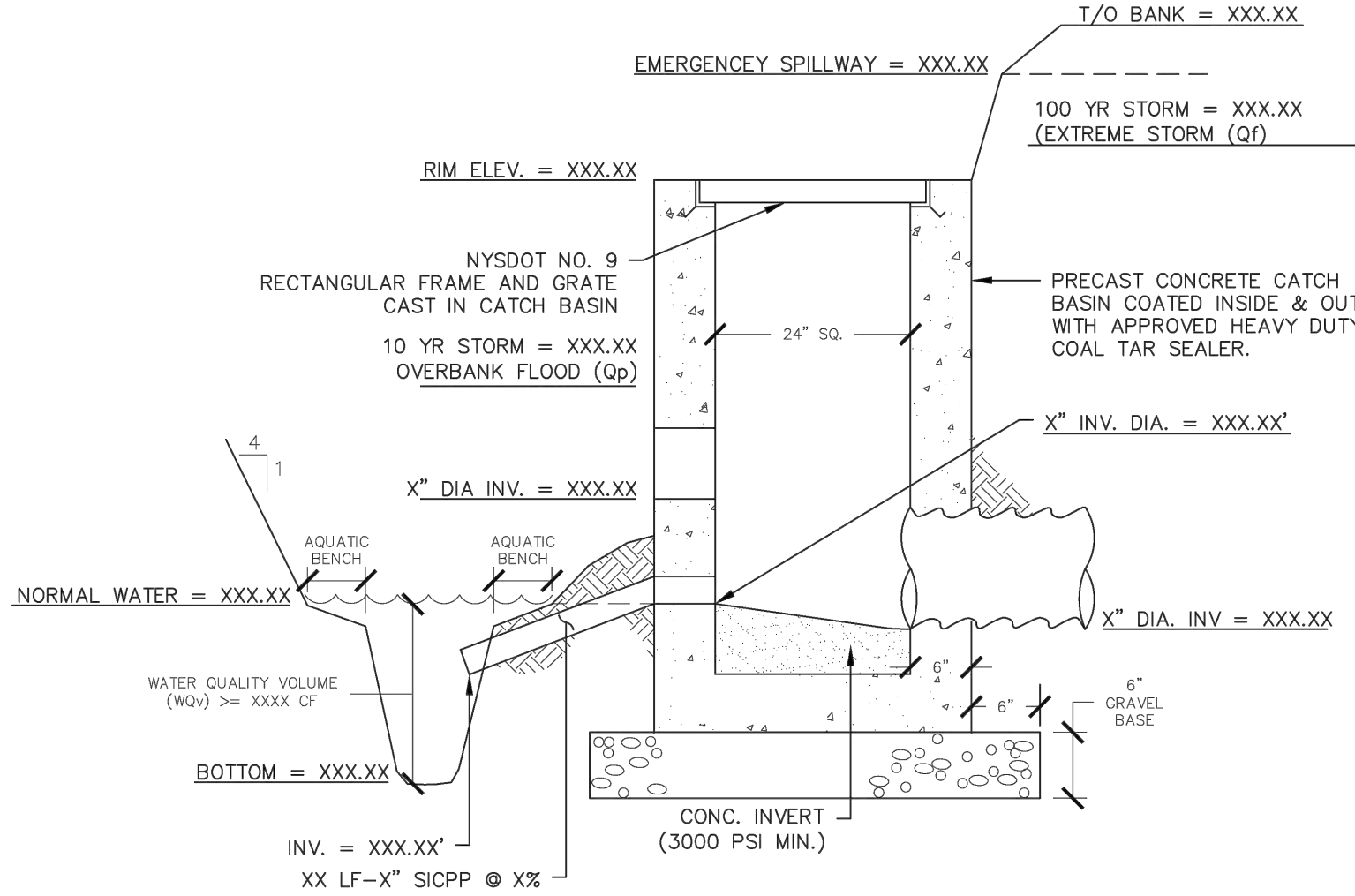
CATCH BASIN DETAIL



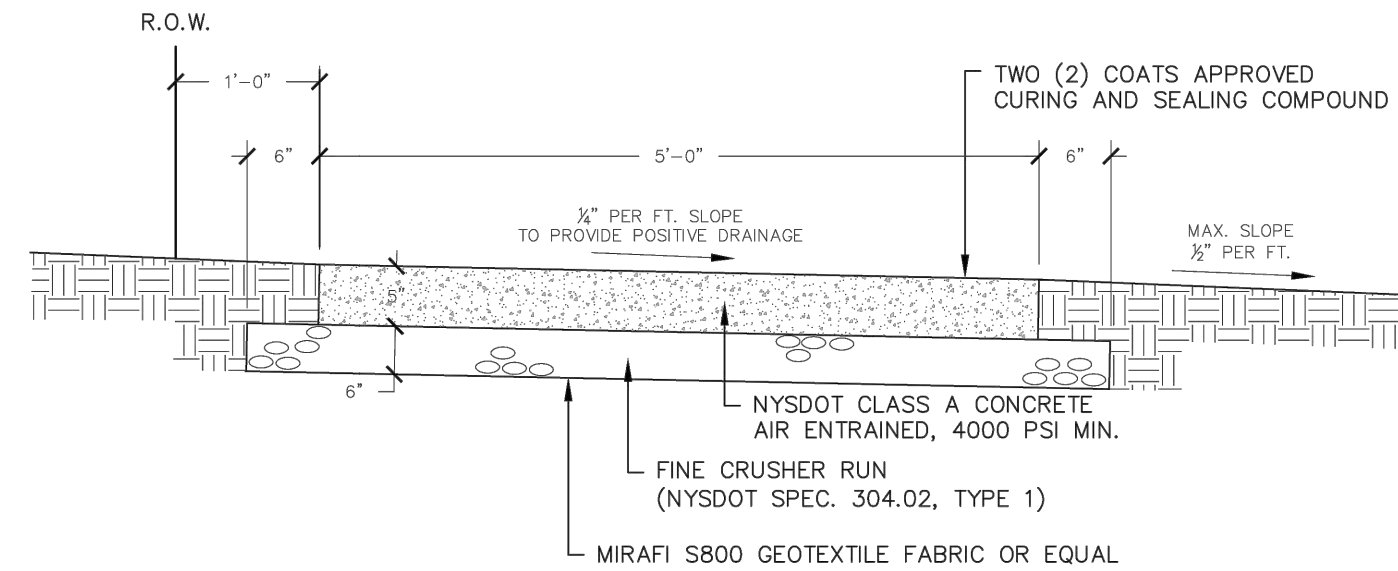
STORM SEWER MANHOLE AND CATCH BASIN MANHOLE



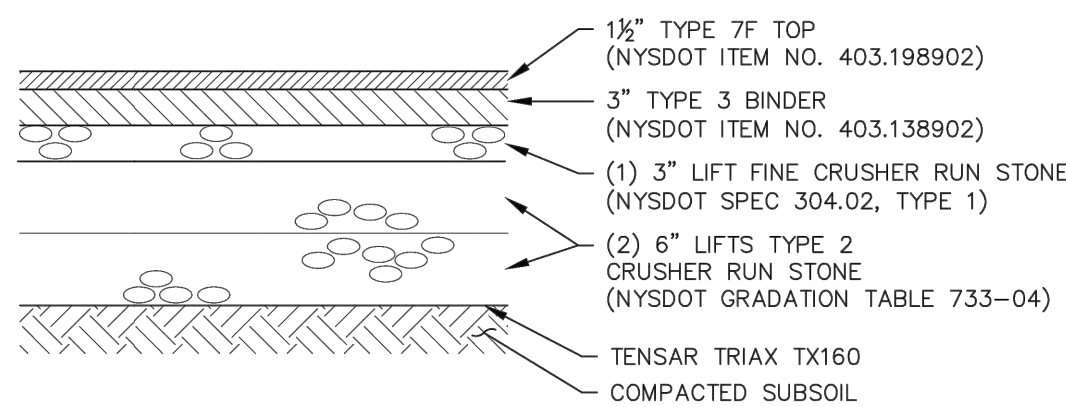
GUTTER DETAIL



DETENTION AREA OUTFALL STRUCTURE



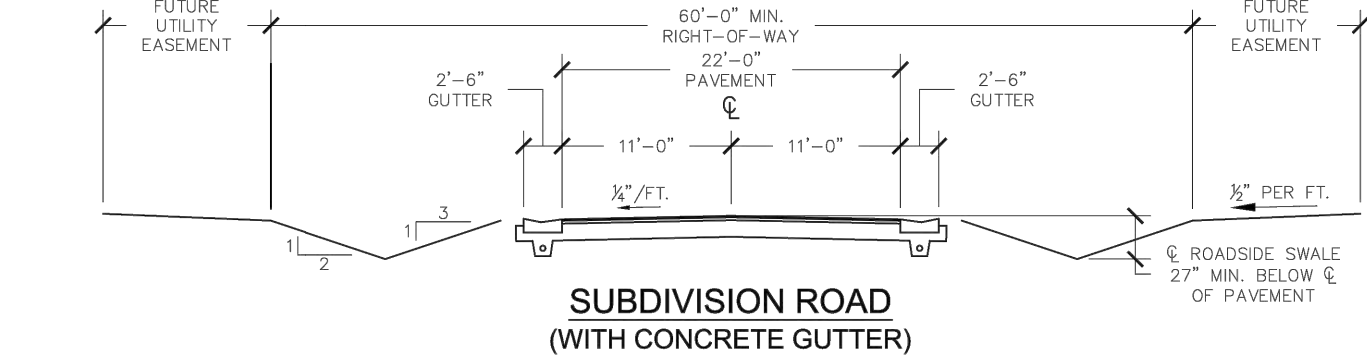
SIDEWALK DETAIL



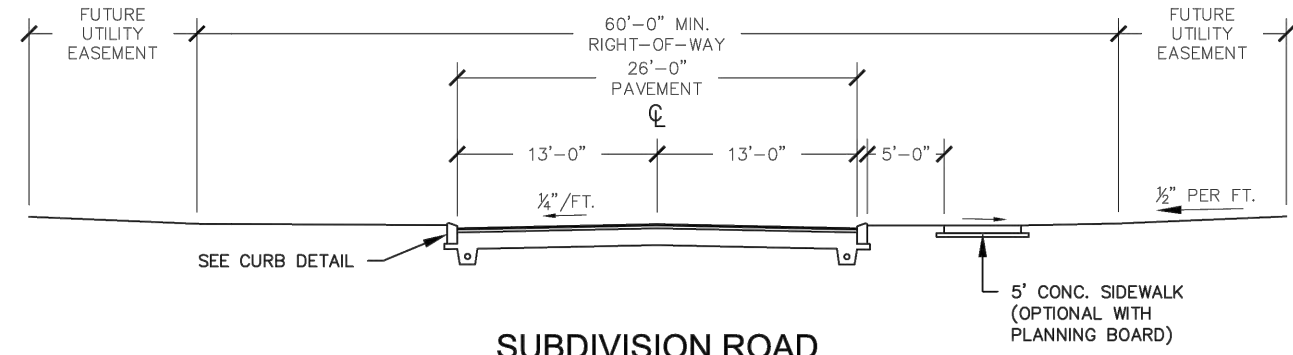
SUBDIVISION ROAD

- NOTES:
1. ALL DEPTHS DIMENSIONS ARE COMPACTED THICKNESS.
  2. PAVEMENT THICKNESS MAY VARY AS REQUIRED BY TOWN ENGINEER
  3. UNDERDRAIN AS REQUIRED
  4. IF THE SUBGRADE IS FOUND TO HAVE TOO HIGH A MOISTURE CONTENT OR PUMPING FINES, A LIGHTWEIGHT NON-WOVEN GEOTEXTILE IS TO BE USED DIRECTLY UNDER THE GEOGRID LAYER.

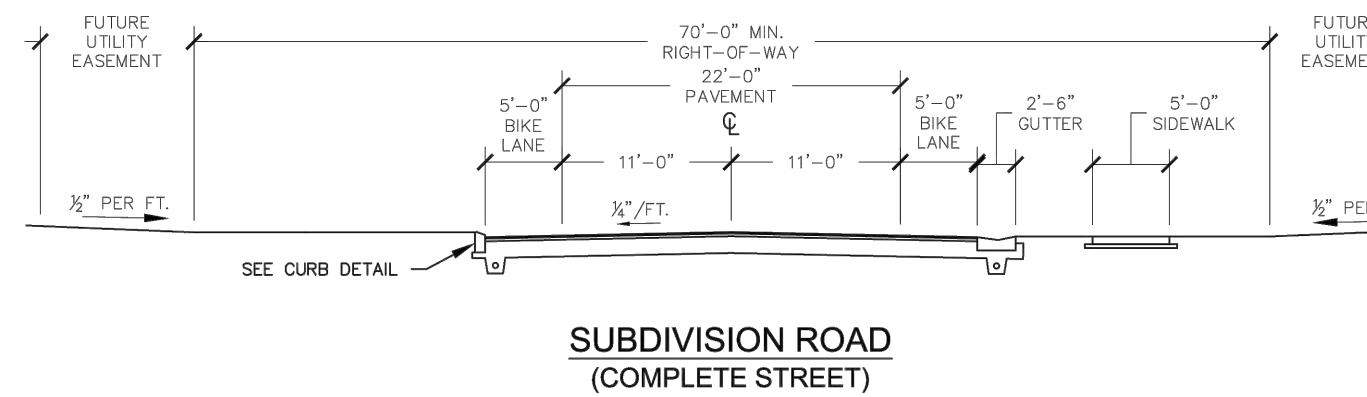
PAVEMENT CROSS SECTION



SUBDIVISION ROAD (WITH CONCRETE GUTTER)

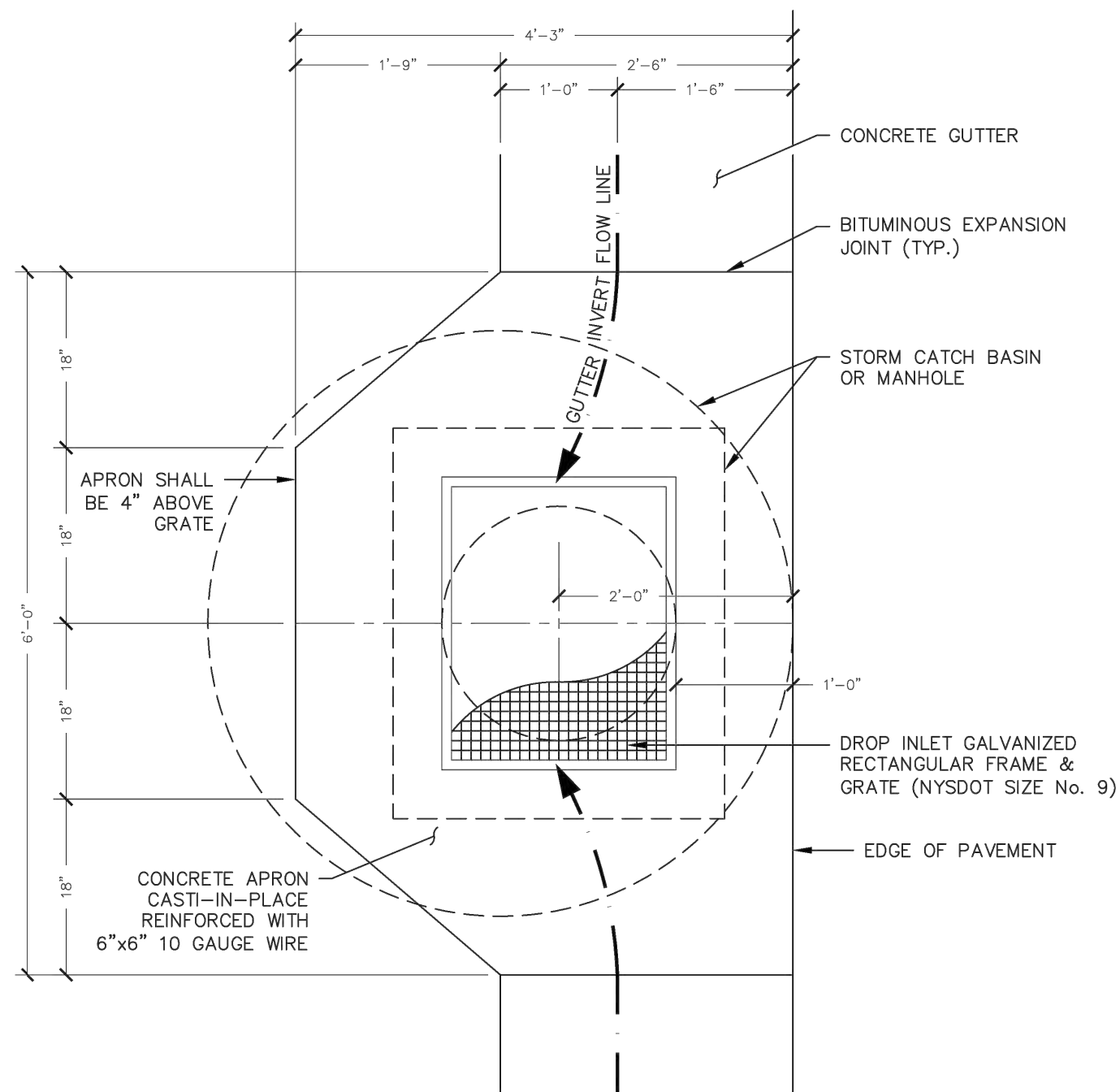


SUBDIVISION ROAD (WITH OPTIONAL SHOULDER AND MOUNTABLE CURB)



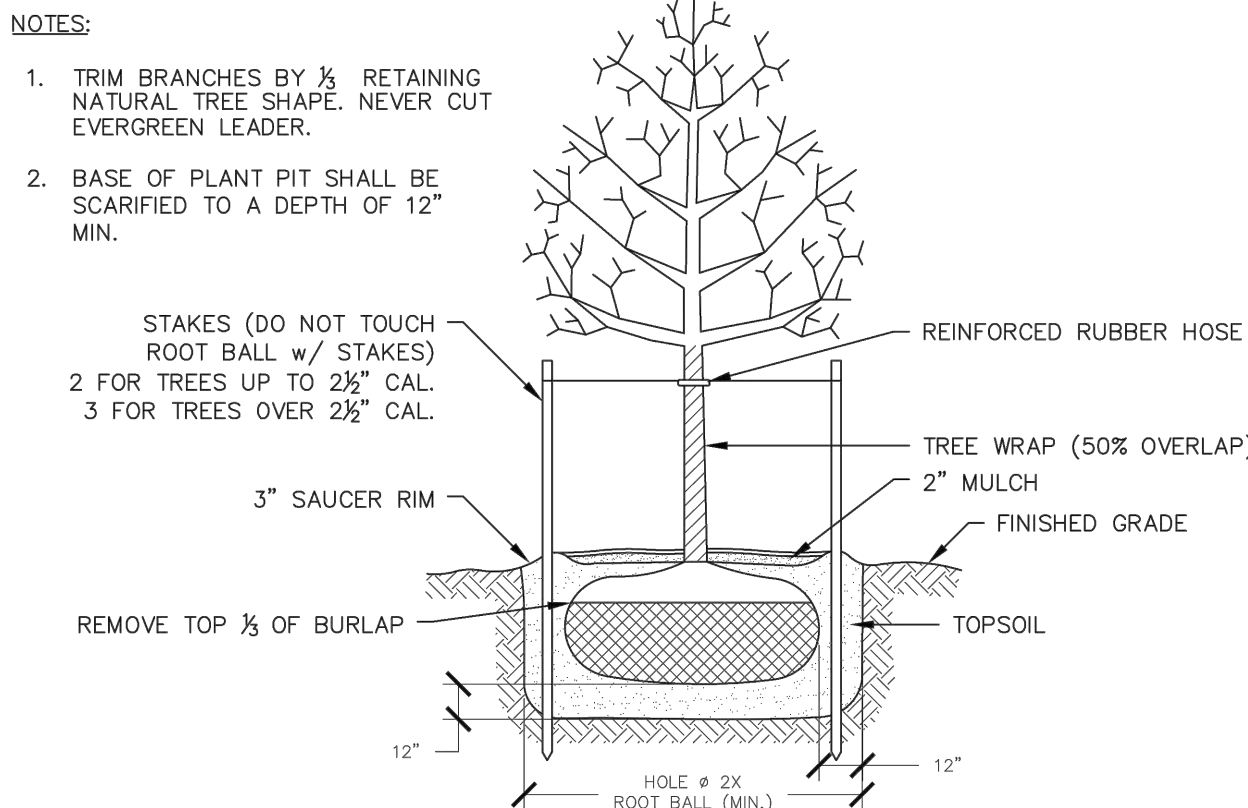
SUBDIVISION ROAD (COMPLETE STREET)

TYPICAL ROAD CROSS SECTIONS (SUBDIVISION)

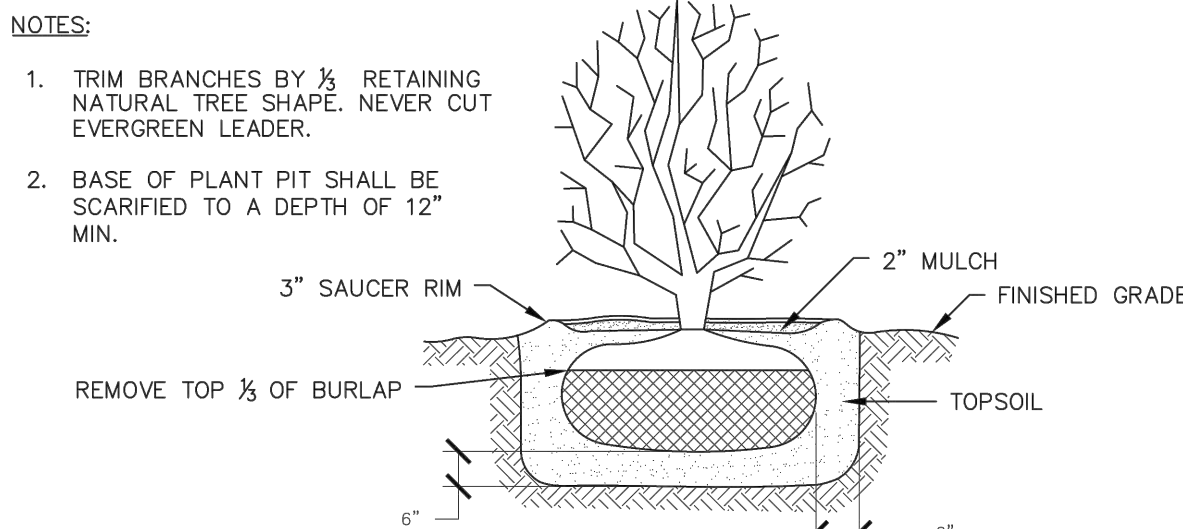


- NOTES:
1. CATCH BASINS SHOULD NOT BE PLACED IN DRIVEWAY AREAS OR IN FRONT OF DRIVEWAY AREAS.
  2. SPECIAL DESIGN MAY BE REQUIRED FOR STEEP GRADE SECTIONS.

GUTTER AND CATCH BASIN APRON DETAIL



TYPICAL TREE PLANTING DETAIL



TYPICAL SHRUB PLANTING DETAIL

4 2 BREMAN ST  
CANANDAIGUA, NY 14424  
www.markseengineering.com

Phone: 585-985-0860  
Fax: 585-483-6205

marksEngineering

marksEngineering.com

STAMP

STATE OF NEW YORK  
BREMAN A. M. J.  
14424  
19182  
PROFESSIONAL ENGINEER

PRELIMINARY  
NOT FOR CONSTRUCTION

STAMP

REVISIONS			
NO.	DATE	DESCRIPTION OF REVISION	BY
1	6/19/21	PER TOWN PRC MEETING	BAM
2	8/10/21	PER TOWN PLANNING BOARD REVIEW	BAM

SITE DEVELOPMENT PLANS PREPARED FOR:  
CANANDAIGUA SHORES  
TOWNHOME / RESIDENTIAL DEVELOPMENT  
SHOWING LAND IN:  
3535 STATE ROUTE 384 /0000 COUNTY ROAD 18  
TOWN OF CANANDAIGUA/HOPEWELL  
COUNTY OF ONTARIO  
STATE OF NEW YORK

DRAWING TITLE: DETAILS	
DRAWN BY:	XXX
DESIGNED BY:	XXX
CHECKED BY:	BAM
SCALE:	AS NOTED
JOB NO.:	20-243
DATE:	06/01/2021
TAX MAP#:	9818-1-20.10

C501

7/1/2021 4:17:19 PM



PIPE SIZE (INCHES)	90° BEND	45° BEND	22.5° BEND	11.25° BEND	SIZE ON TEE	DEAD END
4	13 FT.	8 FT.	4 FT.	3 FT.	BR.	29 FT.
6	17 FT.	10 FT.	5 FT.	3 FT.	BR.	36 FT.
8	22 FT.	10 FT.	5 FT.	3 FT.	3 FT.	48 FT.
12	33 FT.	14 FT.	7 FT.	4 FT.	23 FT.	76 FT.
14	38 FT.	16 FT.	7 FT.	4 FT.	32 FT.	97 FT.
16	44 FT.	18 FT.	9 FT.	4 FT.	46 FT.	110 FT.

- NOTES:
1. RECOMMENDED RESTRAINED LENGTHS FOR STRAIGHT TEES ASSUME A MINIMUM 10' LENGTH OF PIPE ATTACHED TO EACH SIDE OF THE RUN.
  2. BR. ONLY INDICATES RESTRAINT AT TEE BRANCH ONLY.
  3. ALL BENDS (DEGREE CHANGES) ARE CALCULATED AS HORIZONTAL.
  4. DEAD-END SERVICE CONSTITUTES CAPS, PLUGS, VALVES AND HYDRANTS.

#### HORIZONTAL BEND RESTRAINT

PIPE SIZE (INCHES)	90° BEND	45° BEND	22.5° BEND	11.25° BEND
6	35/10	14/6	7/3	4/2
8	45/13	22/10	11/5	5/2
12	65/19	31/14	16/7	7/3
14		40/16	19/8	10/4
16		45/18	22/9	11/4

- NOTES:
1. ALL BENDS (DEGREE CHANGES) ARE CALCULATED AS VERTICAL. THE FIRST RESTRAINED LENGTH (FEET) IS FOR THE HIGH-SIDE BENDS (Lhs) AND THE SECOND RESTRAINED LENGTH (FEET) INDICATES THE LOW-SIDE BENDS (Lls). LENGTHS WERE CALCULATED USING A CONSISTENT 5 FOOT DEPTH OF COVER FOR THE WATERMAIN.

#### VERTICAL BEND RESTRAINT

PIPE SIZE (INCHES)	TEE (REDUC.)	STRAIGHT REDUCER
8 X 4	BR.	55/29
8 X 6	BR.	22/17
12 X 6	BR.	81/42
12 X 8	BR.	54/36
12 X 10	BR.	23/17
16X 10	BR.	46/30
16 X 12	BR.	29/32

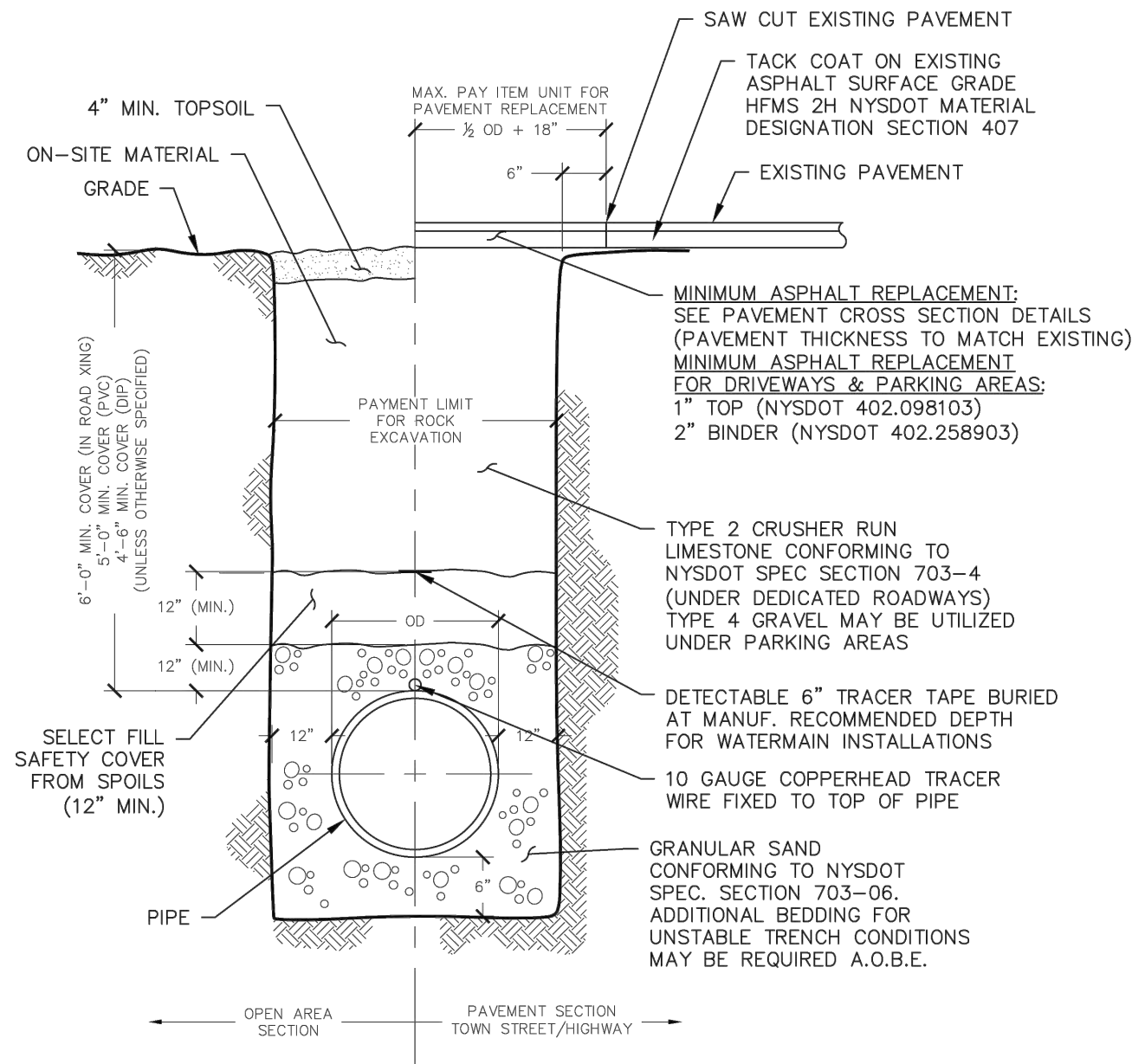
#### RESTRAINED LENGTHS FOR REDUCING FITTINGS

PIPE SIZE (INCHES)	VALVE LR
8	40"
12	76"
14	97"
16	110"

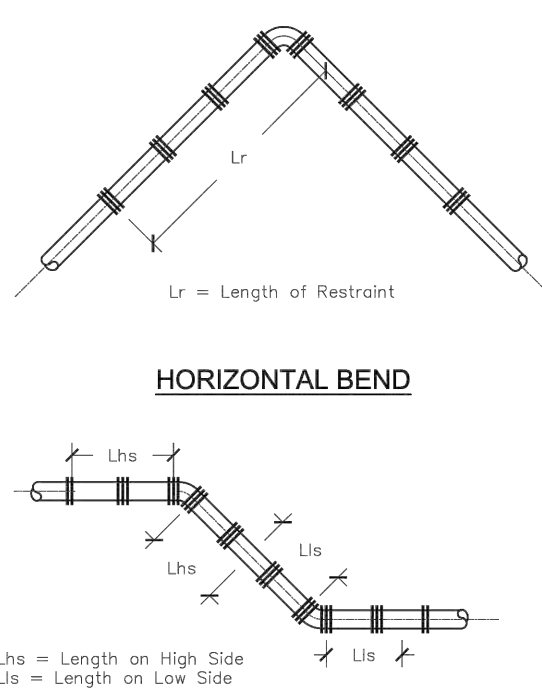
#### RESTRAINED LENGTHS FOR VALVES

- NOTES:
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  - BR. ONLY INDICATES RESTRAINT AT TEE BRANCH ONLY.
  3. STRAIGHT REDUCER UNOBSTRUCTED RESTRAINED LENGTHS OFFER THE OPTION OF RESTRAINING RECOMMENDED DISTANCES ON THE SMALL-END SIDE (FIRST RESTRAINED LENGTH PROVIDED) OR THE LARGE-END SIDE (SECOND RESTRAINED LENGTH PROVIDED).

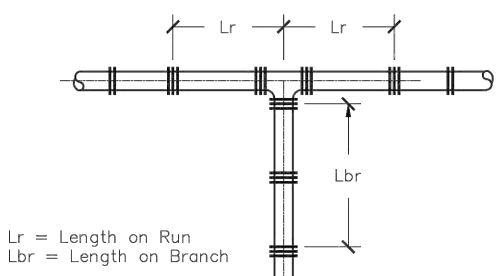
### MECHANICAL JOINT PIPE RESTRAINTS



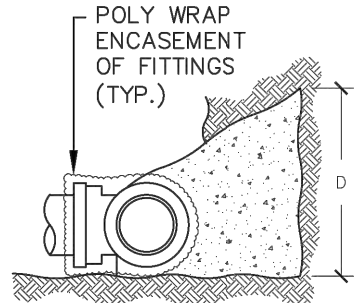
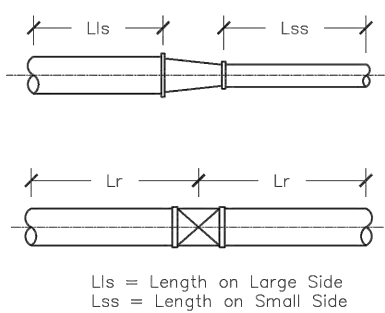
#### PIPE BEDDING/ TRENCH DETAIL (OUTSIDE OF N.Y.S. HIGHWAYS)



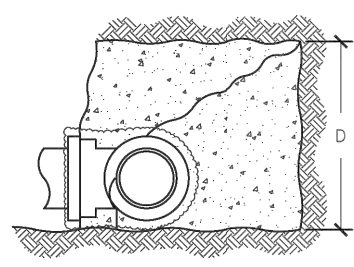
#### VERTICAL DOWN BEND AND OFFSET



#### TEE

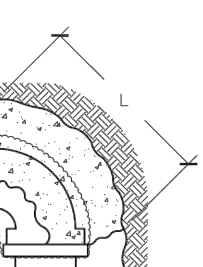
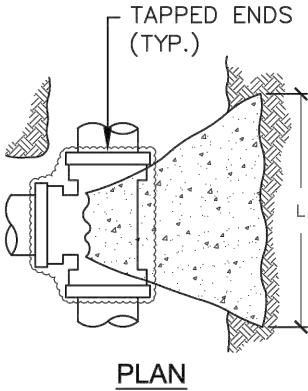


#### SECTION



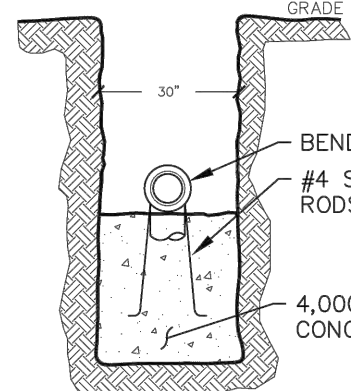
#### SECTION

#### TEE

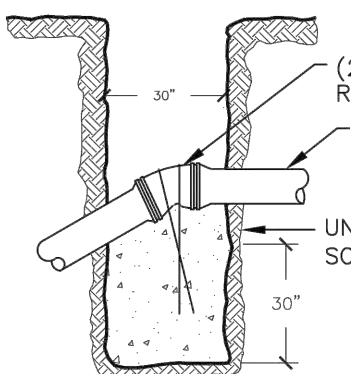


#### PLAN

#### BEND



#### VERTICAL



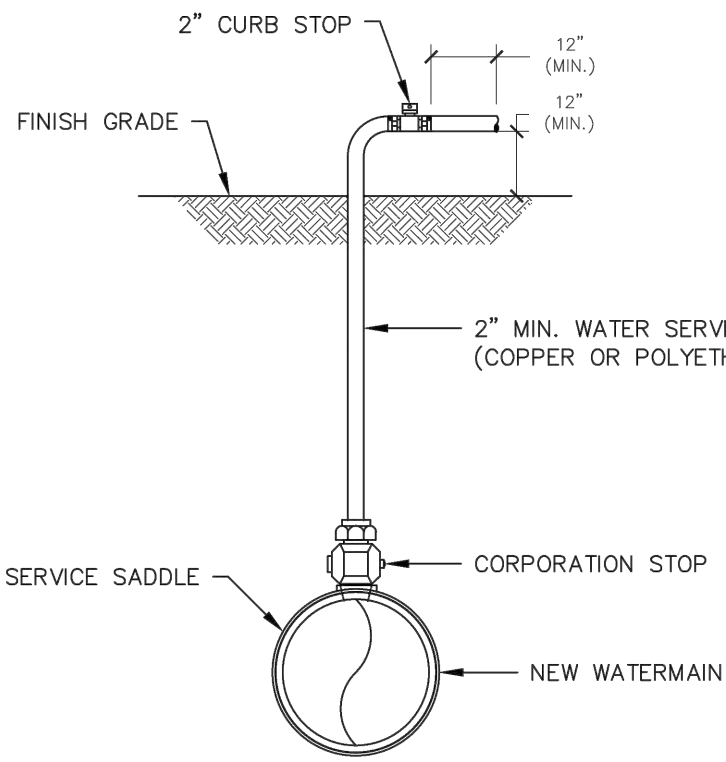
#### VERTICAL

### THRUST BLOCK DETAIL

PIPE SIZE (INCHES)	WORKING PRESSURE (PSIG)	TEE OF PLUG	90° BEND	45° BEND	22-1/2° BEND
		L D	L D	L D	L D
4	200	2.00 1.00	2.25 1.25	2.00 0.75	1.25 0.75
6	300	2.50 1.25	2.75 1.50	2.25 1.00	1.50 1.00
8	300	3.50 1.50	4.00 2.00	3.25 1.50	2.25 1.00
10	200	3.25 2.00	4.25 2.25	3.75 1.75	2.25 1.25
12	300	4.00 2.50	5.25 2.75	4.00 2.25	3.00 1.50
14	200	4.25 2.25	5.25 2.50	4.00 2.00	3.00 1.25
16	300	5.50 2.50	6.50 3.00	5.00 2.50	4.00 1.50
12	200	5.25 2.50	6.00 3.25	4.50 2.25	3.25 1.75
14	300	6.25 3.25	7.50 4.00	5.50 2.75	4.25 2.00
16	200	5.50 3.25	7.25 3.50	5.25 2.50	3.25 2.00
14	300	10.25 5.00	9.00 4.25	6.50 3.00	5.00 2.25
16	200	6.5 3.50	8.25 4.00	5.50 3.25	4.50 2.25
16	300	8.25 4.25	10.00 5.00	7.25 3.75	5.25 3.00

- NOTES:
1. ALL DIMENSIONS ARE IN FEET.
  2. BEARING AREAS ARE BASED ON ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF.
  3. HEIGHT OF THRUST BLOCK SHOULD BE EQUAL TO OR LESS THAN 1/2 THE DEPTH FROM THE GROUND SURFACE TO THE BASE OF THE BLOCK.
  4. ALL THRUST BLOCKS SHALL CURE A MINIMUM OF SEVEN (7) DAYS BEFORE ANY PRESSURE TESTS ARE CONDUCTED.
  5. CONCRETE SHALL BE MINIMUM 3000 PSI.
  6. RESTRAINING RODS MAY BE USED IN LEIU OF THRUST BLOCKS. METHOD TO USED SHALL BE APPROVED BY ENGINEER PRIOR TO PLACEMENT.

### WATERMAIN THRUST BLOCK SCHEDULE



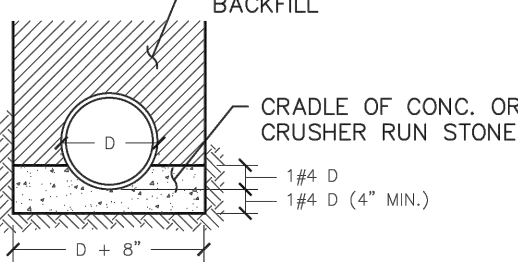
#### NOTES:

1. UPON NOTIFICATION FROM THE HEALTH DEPARTMENT THAT A SATISFACTORY WATER SAMPLE HAS BEEN OBTAINED, SHUT DOWN CORPORATION STOP AND REMOVE THE SERVICE TUBING.
2. IMMEDIATELY PRIOR TO PLACING THE WATER MAIN IN SERVICE THE CONTRACTOR SHALL REMOVE ALL CORPORATIONS ASSOCIATED WITH TEMPORARY FACILITIES ( I.E. SAMPLING TAPS, ETC.) AND REPLACE WITH THREADED BRASS PLUGS.
3. FOR DISINFECTION\SAMPLING TAPS THAT ARE NOT NEEDED TO BLOW-OFF, 1\"/>
4. 1000 LF MAXIMUM DISTANCE BETWEEN SAMPLE TAPS UNLESS OTHERWISE SPECIFIED BY ENGINEER.

#### TEMPORARY DISINFECTION / SAMPLING TAP / BLOW-OFF

CONDITION	SCHEMATIC	REQUIREMENTS
I WATER LINE ABOVE SEWER LINE		<p>A) WATER LINE AND SEWER LINE PIPE LENGTHS TO BE CENTERED AT CROSSING. EACH LENGTH OF PIPE TO BE 10 FT. MINIMUM.</p> <p>B) BACKFILL WITH COMPACTED CRUSHER RUN STONE.</p>
II WATER LINE ABOVE SEWER LINE		<p>A) WATER LINE AND SEWER LINE PIPE LENGTHS TO BE CENTERED AT CROSSING. EACH LENGTH OF PIPE TO BE 10 FT. MINIMUM.</p> <p>B) WHEN BOTH WATER LINE AND SEWER LINE ARE NEW, SLEEVE SEWER LINE WITH STEEL CASING FOR 10 FT. EACH SIDE OF CROSSING.</p> <p>C) WHEN ONE LINE IS EXISTING, SLEEVE PIPE BEING INSTALLED WITH STEEL CASING FOR 10 FT. EACH SIDE OF CROSSING.</p> <p>D) BACKFILL WITH COMPACTED CRUSHER RUN STONE.</p>
III SEWER LINE ABOVE WATER LINE		<p>A) WATER LINE AND SEWER LINE PIPE LENGTHS TO BE CENTERED AT CROSSING. EACH LENGTH OF PIPE TO BE 10 FT. MINIMUM.</p> <p>B) SLEEVE SEWER LINE WITH STEEL CASING FOR 10 FT. EACH SIDE OF CROSSING.</p> <p>C) PROVIDE CRADLE OF CONCRETE OR CRUSHER RUN STONE (SEE TRENCH DETAIL BELOW) FOR WATER LINE AND SEWER LINE FOR 10 FT. EACH SIDE OF CROSSING.</p>
NOTES		<p>WL (WATER LINE)</p> <p>SL (SEWER LINE)</p> <p>D (OUTSIDE DIAMETER OF PIPE)</p> <p>IN NO CASE SHALL PIPES BE CLOSER THAN 18\"/&gt; </p>

### WATERMAIN/SEWER CROSSING DETAIL



1/4 D  
1/4 D (4\"/>

D + 8\"/>

D + 8\"/>

D + 8\"/>

D + 8\"/>

D + 8\"/>

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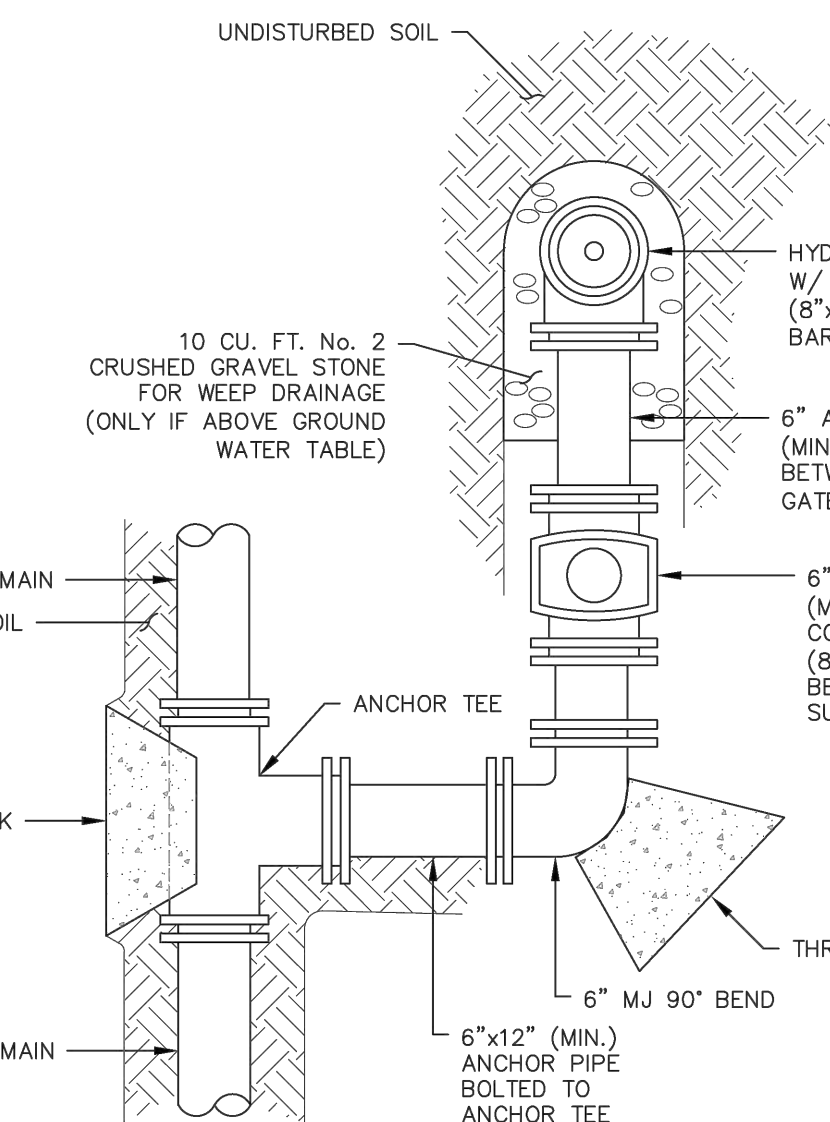
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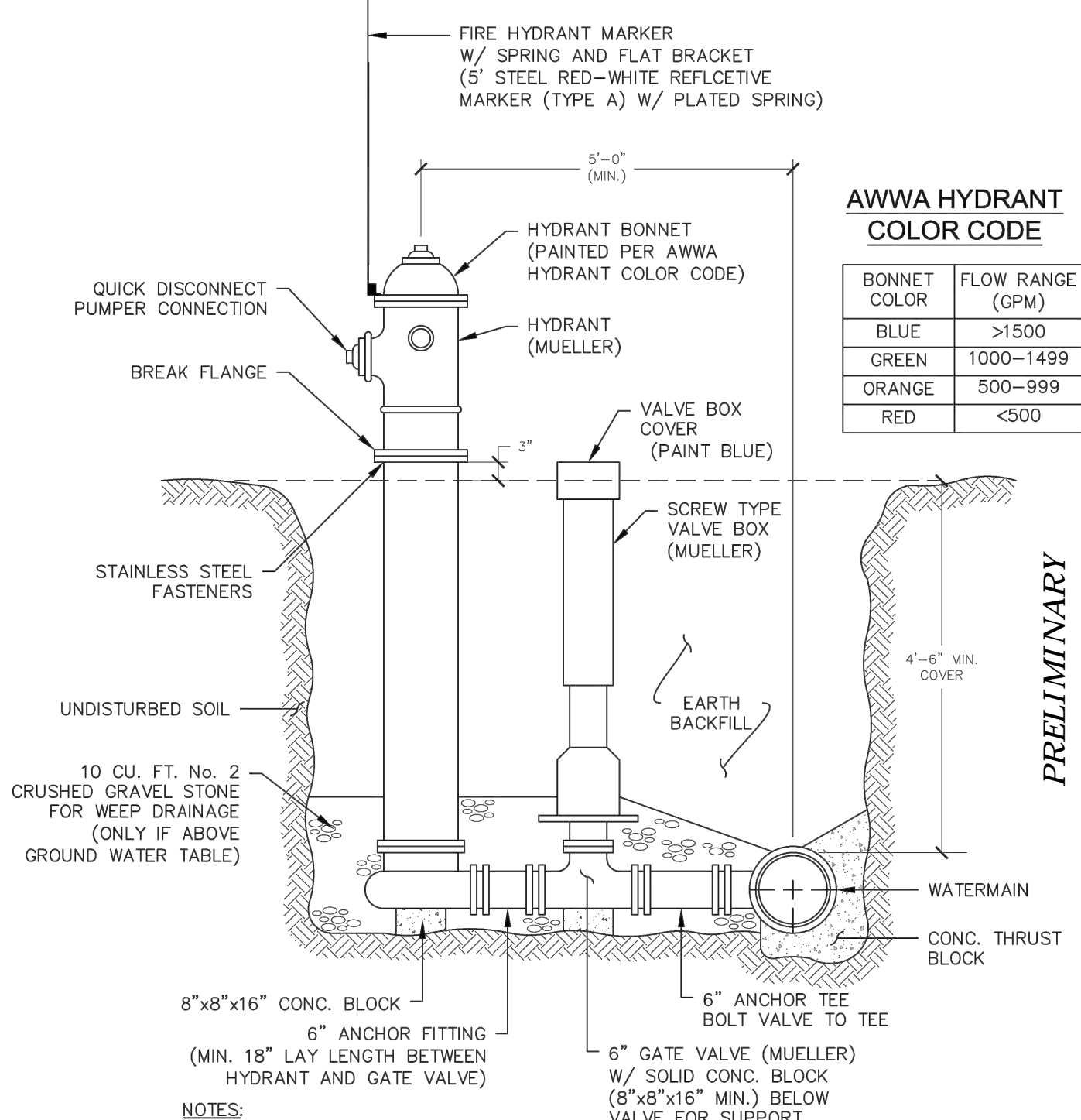
D + 8\"/>



#### NOTES:

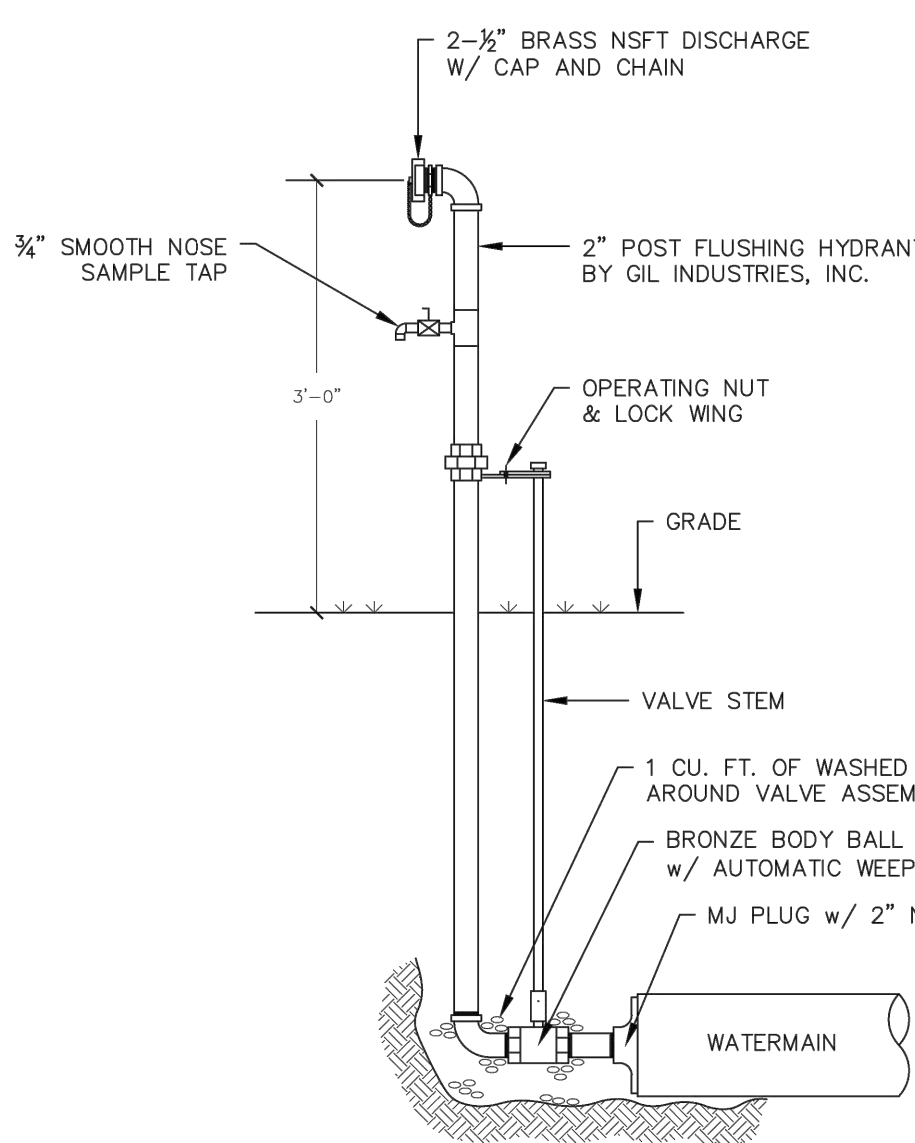
1. IF GROUND WATER IS ENCOUNTERED, THE WEEP HOLES MUST BE PLUGGED AND THE HYDRANT MARKED.
2. HYDRANTS SHALL BE PAINTED RED.

### PARALLEL HYDRANT UNIT

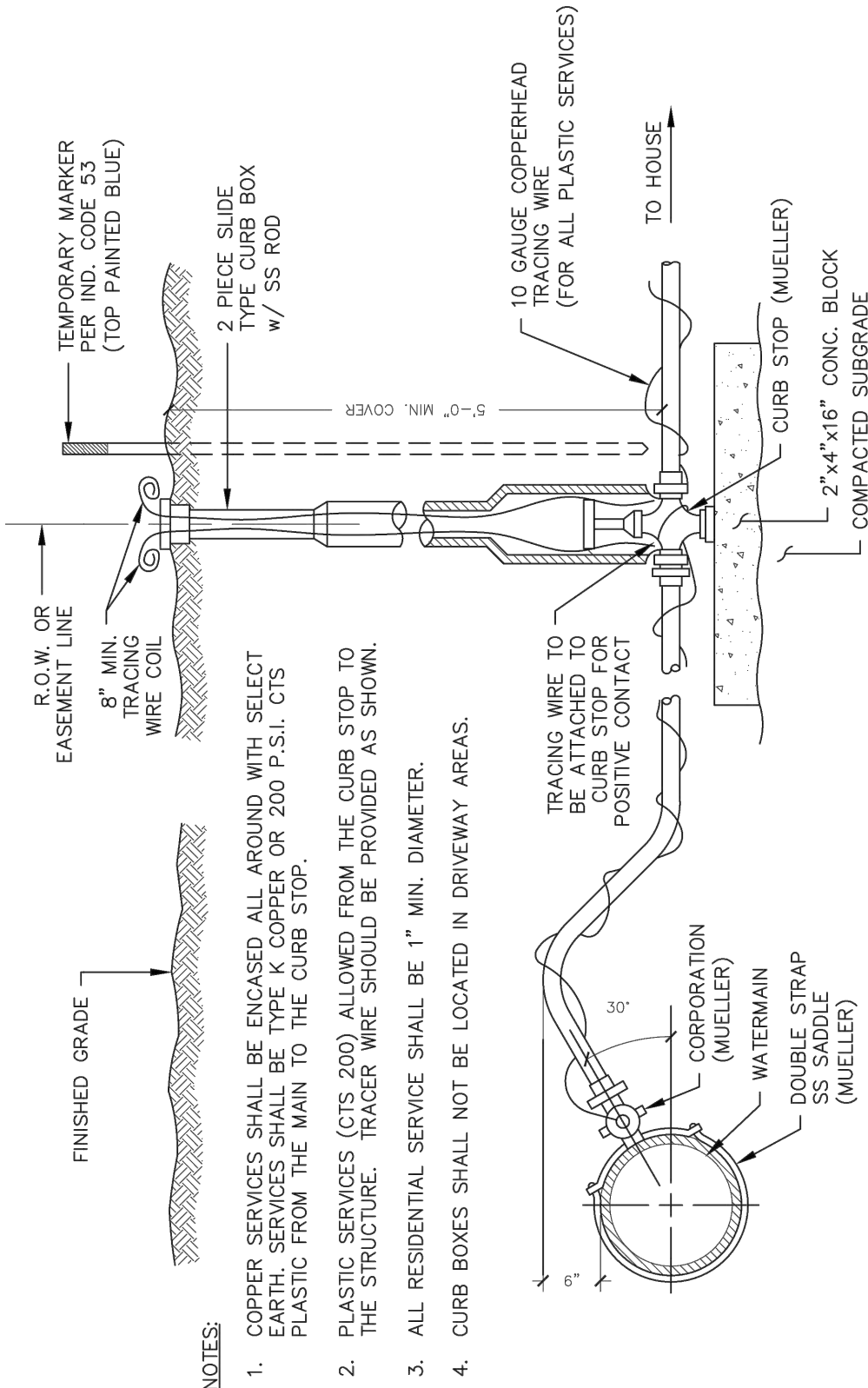


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### HYDRANT UNIT



### TEMPORARY BLOW-OFF DETAIL



#### NOTES:

1. COPPER SERVICES SHALL BE ENCASED ALL AROUND WITH SELECT EARTH. SERVICES SHALL BE TYPE K COPPER OR 200 P.S.I. CTS PLASTIC FROM THE MAIN TO THE CURB STOP.
2. PLASTIC SERVICES (CTS 200) ALLOWED FROM THE CURB STOP TO THE STRUCTURE. TRACER WIRE SHOULD BE PROVIDED AS SHOWN.
3. ALL RESIDENTIAL SERVICE SHALL BE 1\"/>
4. CURB BOXES SHALL NOT BE LOCATED IN DRIVEWAY AREAS.

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#### NOTES:

1. COPPER SERVICES SHALL BE ENCASED ALL AROUND WITH SELECT EARTH. SERVICES SHALL BE TYPE K COPPER OR 200 P.S.I. CTS PLASTIC FROM THE MAIN TO THE CURB STOP.
2. PLASTIC SERVICES (CTS 200) ALLOWED FROM THE CURB STOP TO THE STRUCTURE. TRACER WIRE SHOULD BE PROVIDED AS SHOWN.
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1. THE MATTING SHOULD BE A MINIMUM OF 4FT. WIDE EXTENDING 6 INCHES OVER THE LIP AND BURIED 6 INCHES DEEP IN A VERTICAL TRENCH ON THE LOWER EDGE. THE UPPER EDGE SHOULD BUTT AGAINST SMOOTHLY CUT SOD. AND BE SECURELY HELD IN PLACE WITH CLOSELY SPACED HEAVY DUTY WIRE STAPLES AT LEAST 12 INCHES IN LENGTH.
2. ENSURE THAT THE LIP IS LEVEL TO UNIFORMLY SPREAD DISCHARGE.
3. THE LIP SHALL BE CONSTRUCTED ON UNDISTURBED SOIL NOT FILL.
4. A 20 FOOT TRANSITION SECTION WILL BE CONSTRUCTED FROM THE DIVERSION CHANNEL TO THE SPREADER TO SMOOTHLY BLEND THE DIFFERENT DIMENSION AND GRADES.
5. THE RUNOFF DISCHARGE WILL BE OUTLETED ONTO A STABILIZED VEGETATED SLOPE NOT EXCEEDING 10%.
6. SEED AND MULCH THE DISTURBED AREA IMMEDIATELY AFTER CONSTRUCTION.

1 TYPICAL LEVEL SPREADER DETAIL  
NTS



## NOTES

1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT-TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2x4 WOOD OR EQUIV. MINIMUM LENGTH OF 3 FEET.
4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
6. A 2x4 WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVERFLOW STABILITY.



2) NTS



(4)  $\frac{1}{2}$



NTS



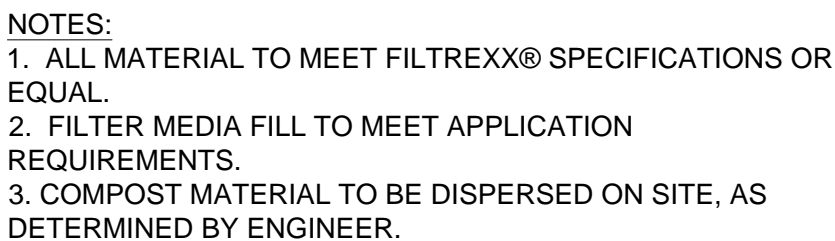
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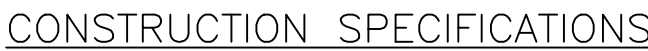
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## CONSTRUCTION SPECIFICATIONS

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
2. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
3. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
4. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE



# SILT SOCK SEDIMENT CONTROL



1. STONE SIZE – USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT
2. LENGTH – NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS – NOT LESS THAN SIX (6) INCHES.
4. WIDTH – TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

## STABILIZED CONSTRUCTION ENTRANCE

9 NTS



STAMP

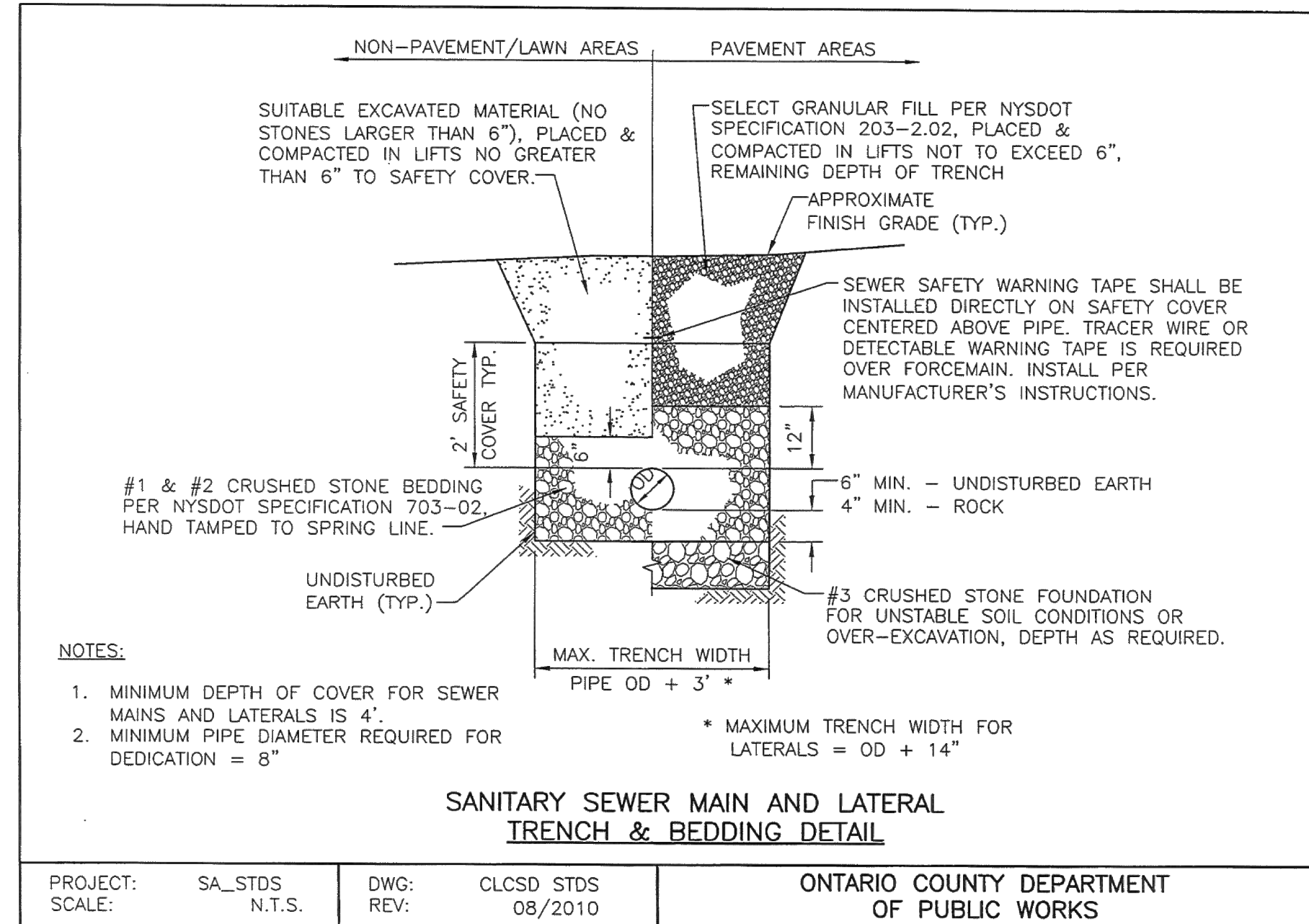
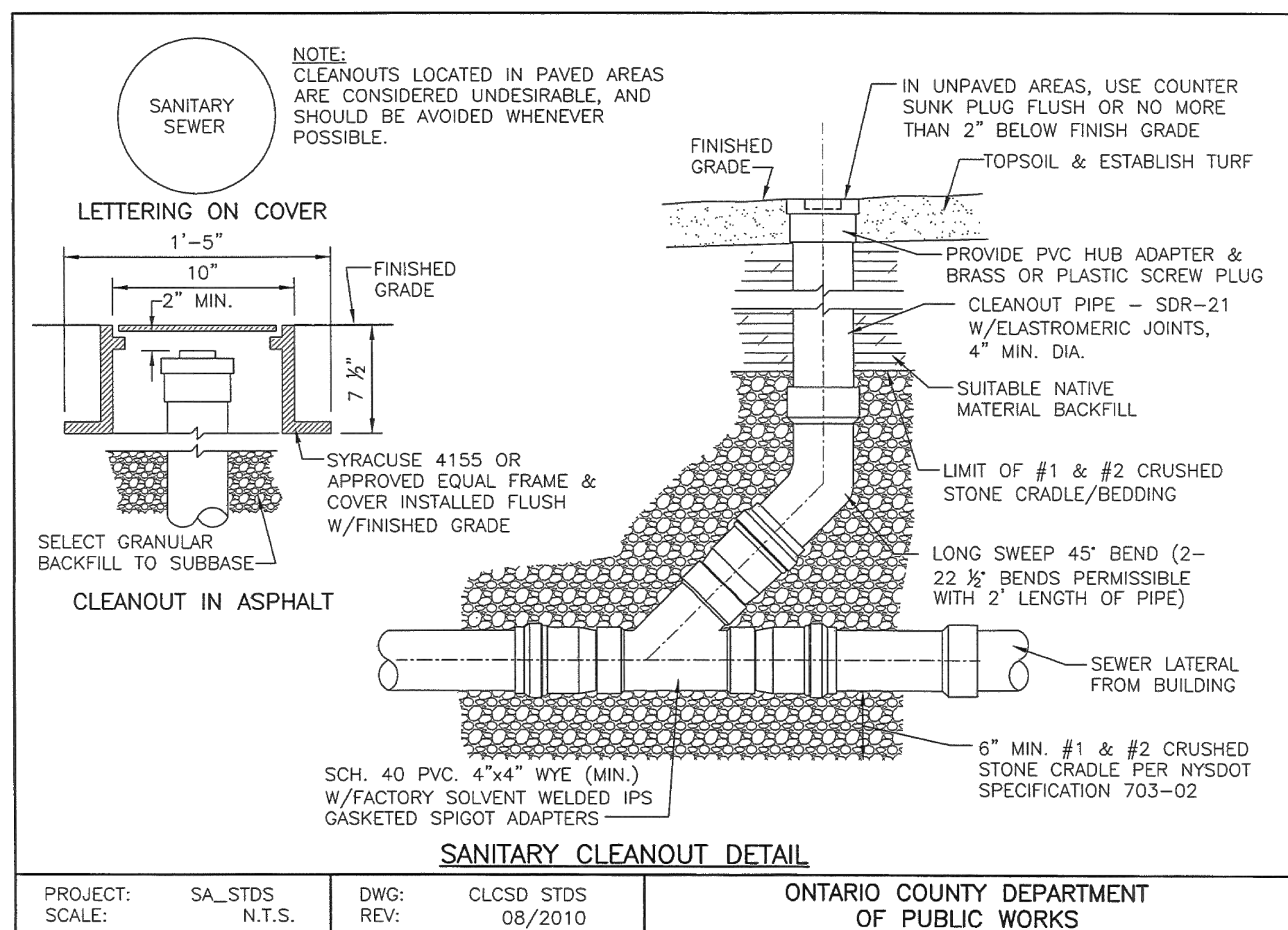
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*SITE DEVELOPMENT PLANS PREPARED FOR:*  
*CANANDAIGUA SHORES*  
*TOWNHOME / RESIDENTIAL DEVELOPMENT*  
*SHOWING LAND IN:*  
*3535 STATE ROUTE 364 / 0000 COUNTY ROAD 18*  
*TOWN OF CANANDAIGUA/HOPEWELL*  
*COUNTY OF ONTARIO*  
*STATE OF NEW YORK*

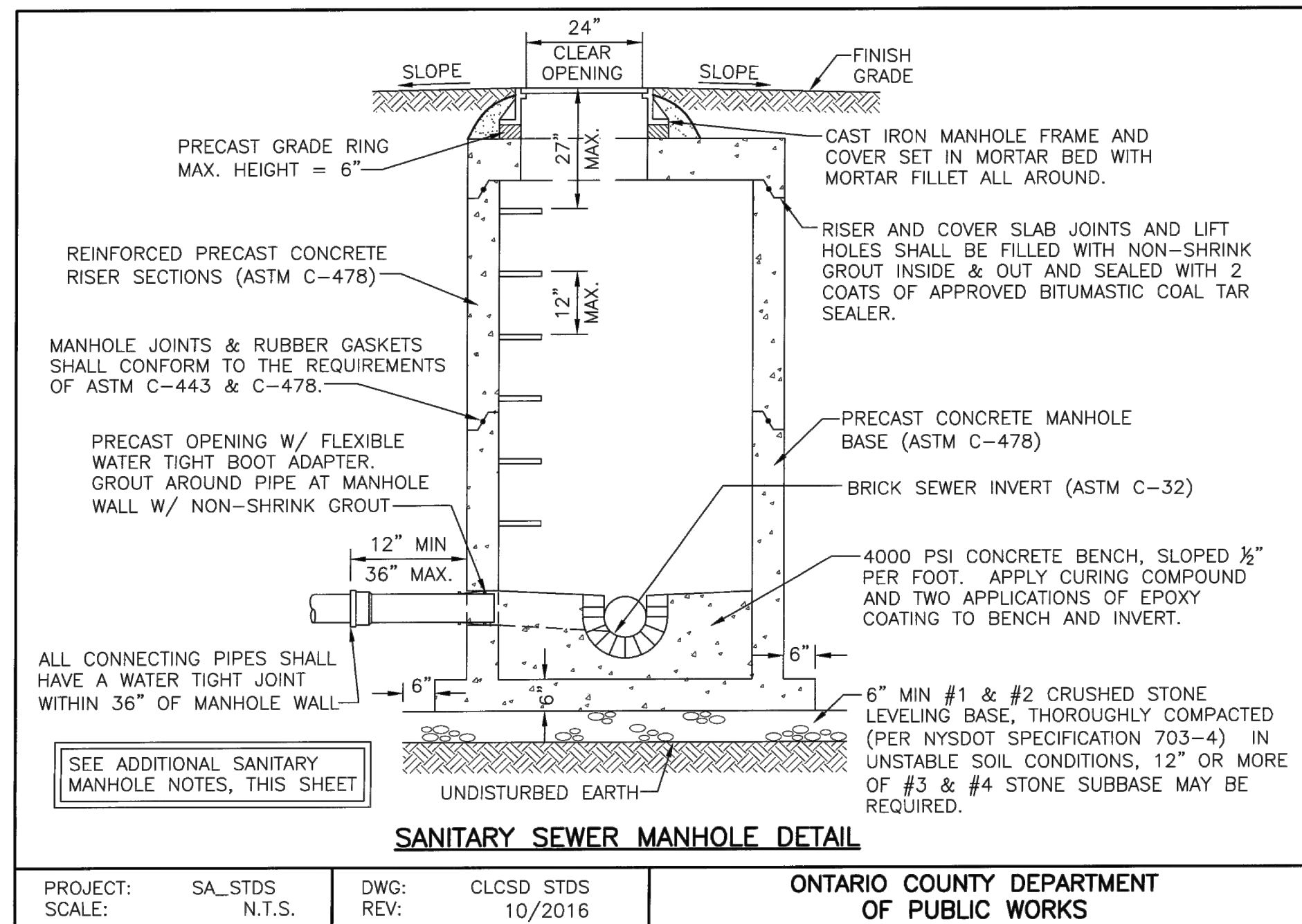
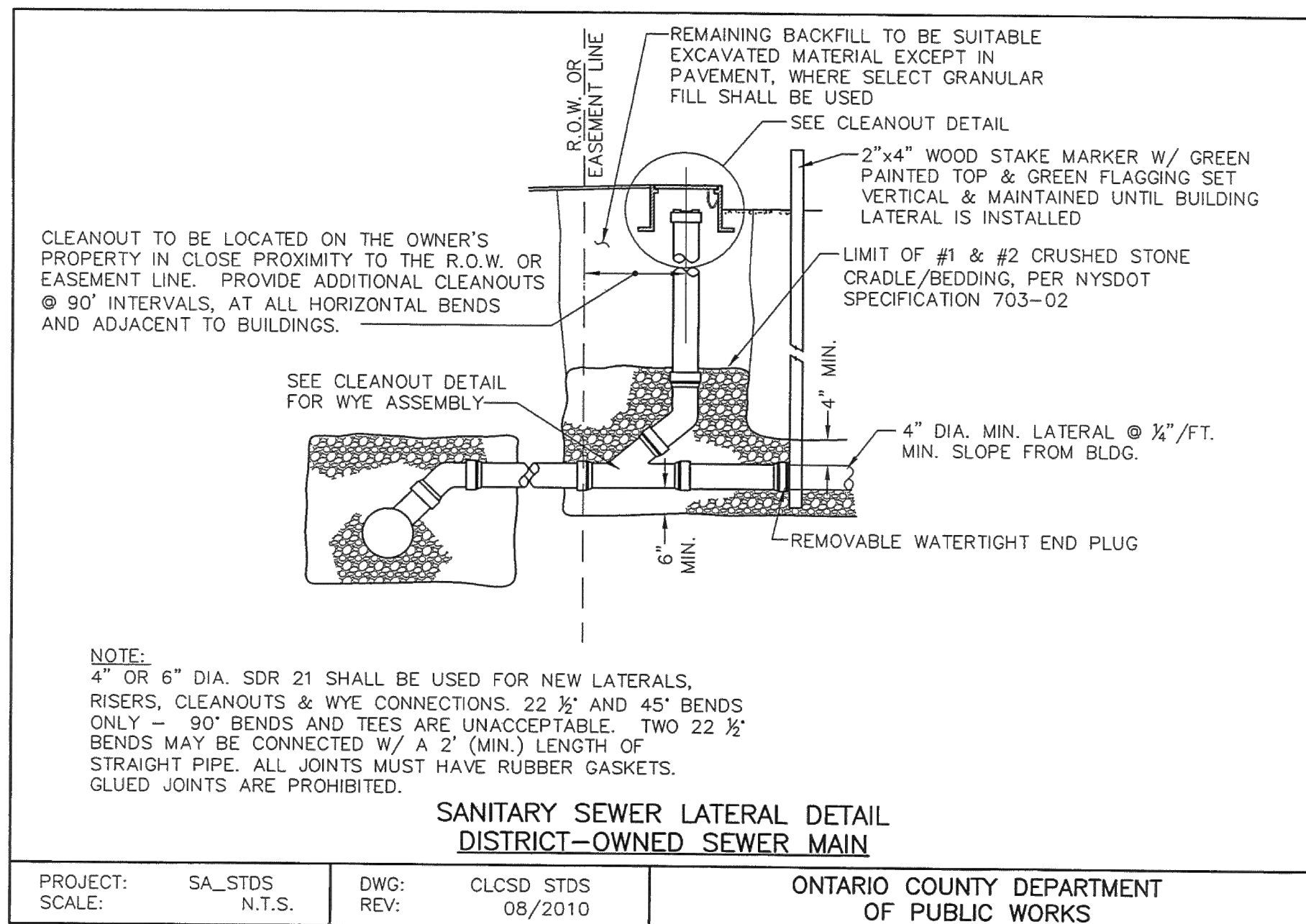
DRAWING TITLE: <b>DETAILS</b>	
DRAWN BY:	XXX
DESIGNED BY:	XXX
CHECKED BY:	BAM
SCALE:	AS NOTED
JOB NO.:	20-243
DATE:	06/01/2021
TAX MAP#:	98.18-1-20.10

C503





WATERMAIN / SEWER CROSSING DETAIL		
CONDITION	SCHEMATIC	REQUIREMENTS
<p><b>I</b></p> <p>WATER LINE ABOVE SEWER LINE</p>		<p>A) WATER LINE AND SEWER LINE PIPE LENGTHS TO BE CENTERED AT CROSSING EACH LENGTH OF PIPE TO BE 10 FT. MINIMUM.</p>
<p><b>II</b></p> <p>WATER LINE ABOVE SEWER LINE</p>		<p>A) WATER LINE AND SEWER LINE PIPE LENGTHS TO BE CENTERED AT CROSSING EACH LENGTH OF PIPE TO BE 10 FT. MINIMUM.</p> <p>B) WHEN BOTH WATER LINE AND SEWER LINE ARE NEW, SLEEVE SEWER LINE WITH STEEL CASING FOR 10 FT. EACH SIDE OF CROSSING.</p> <p>WHEN ONE LINE IS EXISTING, SLEEVE PIPE BEING INSTALLED WITH STEEL CASING FOR 10 FT. EACH SIDE OF CROSSING</p>
<p><b>III</b></p> <p>SEWER LINE ABOVE WATER LINE</p>		<p>A) WATER LINE AND SEWER LINE PIPE LENGTHS TO BE CENTERED AT CROSSING EACH LENGTH OF PIPE TO BE 10 FT. MINIMUM.</p> <p>B) SLEEVE SEWER LINE WITH STEEL CASING FOR 10 FT. EACH SIDE OF CROSSING.</p> <p>C) PROVIDE CRADLE OF CONCRETE OR CRUSHER RUN STONE (SEE TRENCH SECTION DETAIL BELOW) FOR WATER LINE AND SEWER LINE FOR 10 FT. EACH SIDE OF CROSSING.</p>
<p>WL (WATER LINE) SL (SEWER LINE, SANITARY OR STORM) D (OUTSIDE DIAMETER OF PIPE)</p> <p>IN NO CASE SHALL PIPES BE CLOSER THAN 18 INCHES APART. DISTANCES ARE MEASURED BETWEEN OUTSIDES OF PIPE</p>		



- MANHOLE NOTES:

PROJECT: SA_STDS	DWG: CLCSD STDS	ONTARIO COUNTY DEPARTMENT OF PUBLIC WORKS
SCALE: N.T.S.	REV: 10/2016	

PRELIMINARY  
NOT FOR CONSTRUCTION

**Marks**Engineering

STAMP

REVISIONS			BY
NO.	DATE	DESCRIPTION OF REVISION	BY
1	4/19/21	PER TOWN/PRC MEETING	BAM
2	07/01/21	PER TOWN PLANNING BOARD REVIEW	BAM

**SITE DEVELOPMENT PLANS PREPARED FOR:**

*CANANDAIGUA SHORES*

TOWNHOME / RESIDENTIAL DEVELOPMENT

SHOWING LAND IN:

5 STATE ROUTE 364 / 0000 COUNTY ROAD 18

TOWN OF CANANDAIGUA/HOPEWELL

COUNTY OF ONTARIO

STATE OF NEW YORK

*DRAWING TITLE*  
**DETAILS**

<i>DRAWN BY:</i>	<i>XXX</i>
<i>DESIGNED BY:</i>	<i>XXX</i>
<i>CHECKED BY:</i>	<i>BAM</i>
<i>SCALE:</i>	<i>AS NOTED</i>
<i>JOB NO.:</i>	<i>20-243</i>
<i>DATE:</i>	<i>06/01/2021</i>
<i>TAX MAP#:</i>	<i>98.18-1-20.10</i>

C502





*STAMP*

<i><b>REVISIONS</b></i>					
<i><b>NO.</b></i>	<i><b>DATE</b></i>	<i><b>DESCRIPTION OF REVISION</b></i>	<i><b>BY</b></i>	<i><b>DATE</b></i>	
1	4/19/21	PER TOWN PRC MEETING	BAM		
2	07/08/21	PER TOWN PLANNING BOARD REVIEW	BAM		

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C504