

LOCATION MAP
SCALE: 1" = 2,000'

SHEET INDEX

- SHEET #1 - SITE PLAN
- SHEET #2 - DRAINAGE, GRADING & UTILITY PLAN
- SHEET #3 - LIGHTING PLAN
- SHEET #4 - EROSION CONTROL PLAN
- SHEET #5 - EROSION CONTROL DETAILS
- SHEET #6 - SITE DETAILS
- SHEET #7 - SANITARY DETAILS
- SHEET #8 - DRAINAGE DETAILS

GENERAL NOTES:

1. VILLAGE OF SOUTH BLOOMING GROVE TAX MAP DESIGNATION: SEC. 210, BLK. 2, LOT 2 AND SEC. 207, BLK. 1, LOT 1,2
2. BOUNDARY SURVEY INFORMATION PROVIDED BY MAP ENTITLED: "PROPOSED LOT LINE CHANGE PREPARED FOR 31 MERRIEWOLD DRIVE SOUTH", AS PREPARED BY: EDWARD T. GANNON, P.L.S. BLOOMING GROVE, NEW YORK.
3. BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY MAP ENTITLED: "OUTBOUND & TOPOGRAPHIC SURVEY PLAN PREPARED FOR 149 ACRES RD - SECTION 301-BLOCK 5-LOTS 43,11 & 43,12." PREPARED BY JOHN MCCORD SR. PLS.
4. THE DESIGN AND LOCATION OF SANITARY FACILITIES (WATER AND SEWER) SHALL NOT BE CHANGED.
5. EXISTING UTILITY INFORMATION SHOWN HEREON HAS BEEN COLLECTED FROM VARIOUS SOURCES AND IS NOT GUARANTEED AS TO ACCURACY OR COMPLETENESS. THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS SATISFACTION PRIOR TO EXCAVATION. THE CONTRACTOR SHALL NOTIFY THE UNDERSIGNED PROFESSIONAL IMMEDIATELY IF ANY FIELD CONDITIONS ENCOUNTERED DIFFER MATERIALLY FROM THOSE REPRESENTED HEREON. SUCH CONDITIONS COULD RENDER THE DESIGNS HEREON INAPPROPRIATE OR INEFFECTIVE.
6. BUILDING FOOTPRINT DIMENSIONS SHOWN HEREON ARE APPROXIMATE. FINAL BUILDING FOOTPRINT DIMENSIONS FOR EACH BUILDING SHALL BE FURNISHED ON THE INDIVIDUAL ARCHITECTURAL PLANS AT THE TIME OF APPLICATION FOR A BUILDING PERMIT. ALL STRUCTURES SHALL CONFORM TO THE APPROVED BULK ZONING REQUIREMENTS.
7. THIS SET OF PLANS HAS BEEN PREPARED FOR THE PURPOSES OF MUNICIPAL AND AGENCY REVIEW AND APPROVAL. THIS SET OF PLANS SHALL NOT BE UTILIZED AS CONSTRUCTION DOCUMENTS UNTIL ALL APPROVALS REQUIRED HAVE BEEN OBTAINED. ALL CONDITIONS OF APPROVAL HAVE BEEN SATISFIED AND THE DRAWINGS HAVE BEEN STAMPED "ISSUED FOR CONSTRUCTION". THIS SHALL INCLUDE APPROVAL OF ALL CATALOG CUTS, SHOP DRAWINGS AND/OR DESIGN CALCULATIONS AS REQUIRED BY THE PROJECT OWNER AND/OR MUNICIPALITY.
8. THERE SHALL BE A SEPARATE SUBDIVISION PLAT SUBMITTED TO AND APPROVED BY THE ORANGE COUNTY CLERK'S OFFICE FOR ALL PROPERTY LINE MODIFICATIONS.

EXISTING UTILITIES NOTE:

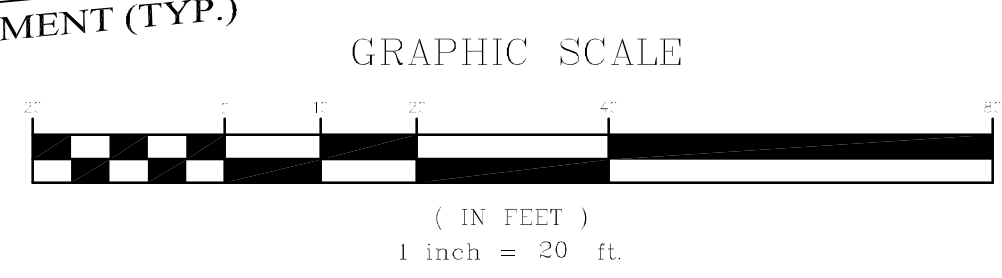
EXISTING UTILITIES INFORMATION INCLUDING, AT A MINIMUM, SEWER MAINS, SEWER MANHOLES, SEWER LATERAL STUB, SEWER INVERTS, CATCH BASINS, DRAINAGE MANHOLES, DRAINAGE CULVERTS, DRAINAGE INVERTS, WATER MAIN, WATER VALVES AND ANY OTHER UTILITIES SHALL BE VERIFIED IN FIELD BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION. ANY DISCREPANCIES COULD VOID THE UTILITY DESIGN AND SHALL BE REPORTED TO ENGINEER BEFORE CONSTRUCTION.

RETAINING WALL NOTE:

**ALL RETAINING WALLS SHOWN HEREON ARE TO DEMONSTRATE GRADING WITHIN THE LOT. THIS PLAN IS NOT INTENDED TO DEPICT THE STRUCTURAL DESIGN OF ANY RETAINING WALL AND SHALL NOT BE USED FOR THAT PURPOSE. ALL RETAINING WALLS SHALL BE DESIGNED BY A LICENSED GEOTECHNICAL ENGINEER AND THE DESIGN SUBMITTED TO THE VILLAGE OF KIRYAS JOEL BUILDING DEPARTMENT.

LEGEND

EXISTING PROPERTY LINE	---
PROPOSED PROPERTY LINE	---
EXISTING 2' CONTOUR LINE	---
EXISTING 10' CONTOUR LINE	---
PROPOSED CONTOUR LINE	---
EXISTING EDGE OF PAVEMENT	---
PROPOSED EASEMENT	---



Lands of
31 MERRIEWOLD LANE SOUTH
VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

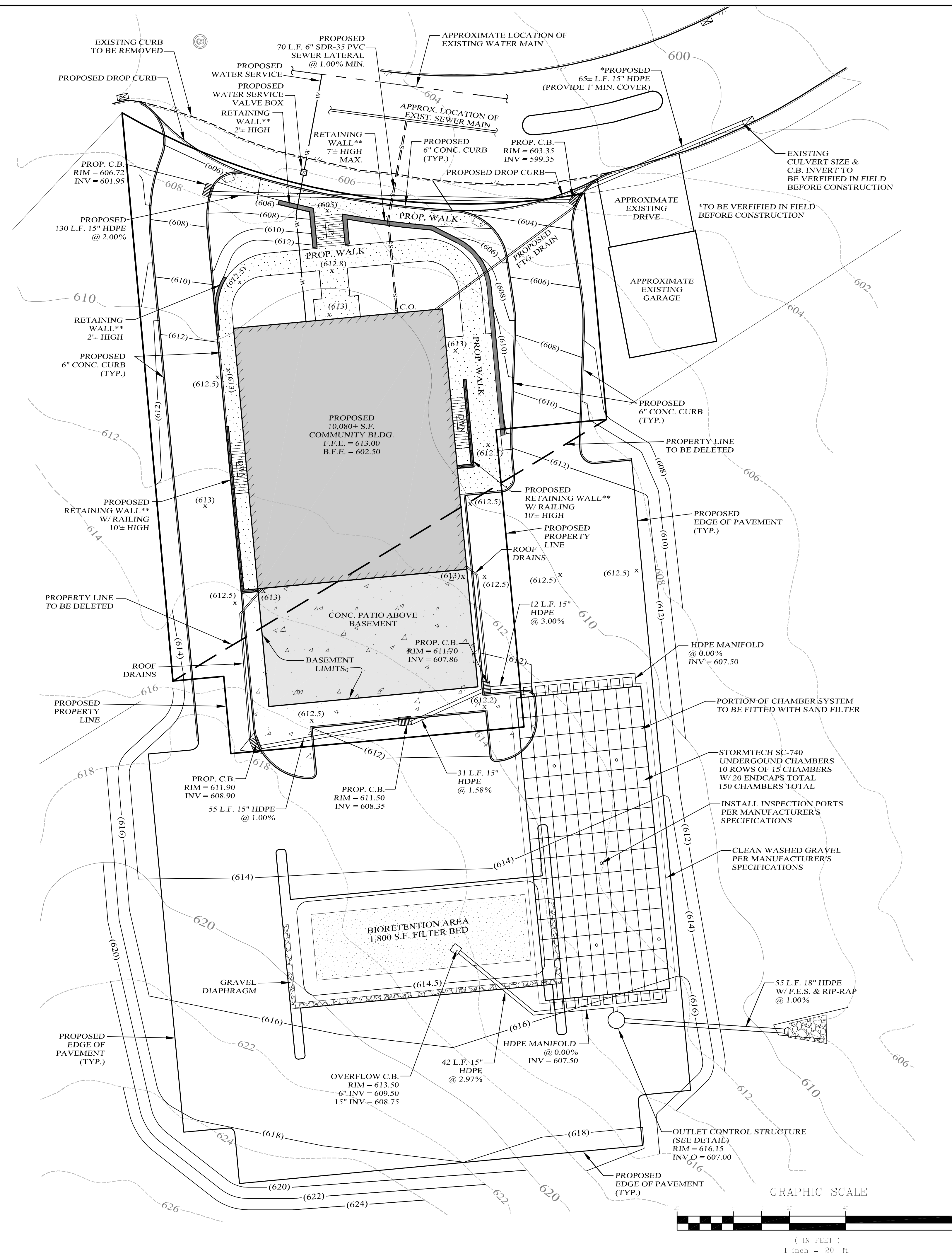
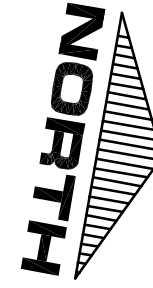
SITE PLAN

03-22-22	DETAILED DESIGN
02-17-21	ADD PARKING EASEMENT
09-02-21	SHOW NEW CONCEPTUAL BUILDING & PARKING
08-03-21	REV. BUILDING / ADD GRADING & UTILITIES
06-29-21	REV. PROPOSED GARAGE
05-04-21	REV. PROPOSED PROPERTY LINE
04-30-21	ADD GARAGE
04-27-21	REV. BUILDING & PARKING AREA
04-07-21	REV. BUILDING
10-08-20	REV. PARKING AREA
09-24-20	INITIAL PREPARATION

DRAWING TITLE

KIRK ROTHER, P.E.
CONSULTING ENGINEER, PLLC
5 St. Stephens Lane, Warwick, NY 10990
(845) 988-0630
NYS LIC. NO. 078653

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.	D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
	N.A.	N.A.	N.A.	1 OF 8
	20129 SP	20129.0	AS SHOWN	



EXISTING UTILITIES NOTE:

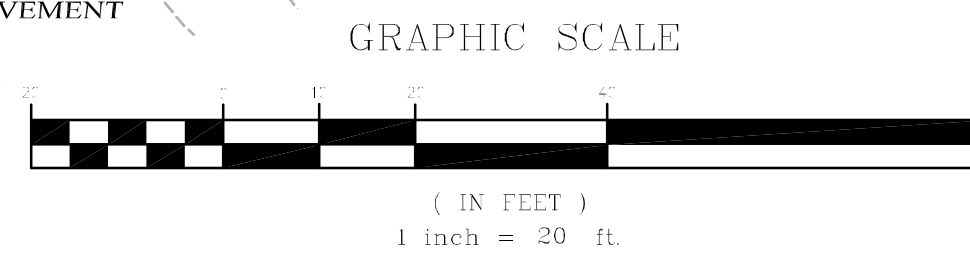
EXISTING UTILITIES INFORMATION INCLUDING, AT A MINIMUM, SEWER MAINS, SEWER MANHOLES, SEWER LATERAL STUB, SEWER INVERTS, CATCH BASINS, DRAINAGE MANHOLES, DRAINAGE CULVERTS, DRAINAGE INVERTS, WATER MAIN, WATER VALVES AND ANY OTHER UTILITIES SHALL BE VERIFIED IN FIELD BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION. ANY DISCREPANCIES COULD VOID THE UTILITY DESIGN AND SHALL BE REPORTED TO ENGINEER BEFORE CONSTRUCTION.

RETAINING WALL NOTE:

**ALL RETAINING WALLS SHOWN HEREON ARE TO DEMONSTRATE GRADING WITHIN THE LOT. THIS PLAN IS NOT INTENDED TO DEPICT THE STRUCTURAL DESIGN OF ANY RETAINING WALL AND SHALL NOT BE USED FOR THAT PURPOSE. ALL RETAINING WALLS SHALL BE DESIGNED BY A LICENSED GEOTECHNICAL ENGINEER AND THE DESIGN SUBMITTED TO THE VILLAGE OF KIRVAS JOEL BUILDING DEPARTMENT.

LEGEND

EXISTING PROPERTY LINE	---
PROPOSED PROPERTY LINE	---
EXISTING 2' CONTOUR LINE	---(600)---
EXISTING 10' CONTOUR LINE	---(600)---
PROPOSED CONTOUR LINE	---(600)---
EXISTING EDGE OF PAVEMENT	---
PROPOSED EDGE OF PAVEMENT	---
PROPOSED CONC. CURB	---



Lands of
31 MERRIEWOLD LANE SOUTH
 VILLAGE OF SOUTH BLOOMING GROVE,
 ORANGE COUNTY, NEW YORK

DRAINAGE, GRADING & UTILITY PLAN

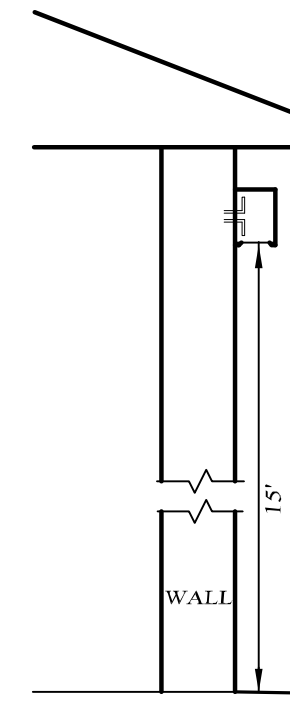
DRAWING TITLE

KIRK ROTHER, P.E.
 CONSULTING ENGINEER, PLLC
 5 St. Stephens Lane, Warwick, NY 10990
 (845) 988-0620

03-22-22 INITIAL PREPARATION

D.O.T. SHEET #	D.E.G. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	2 OF 8
CAD #	PROJECT #	SCALE	
20129 SP	20129.0	AS SHOWN	

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.

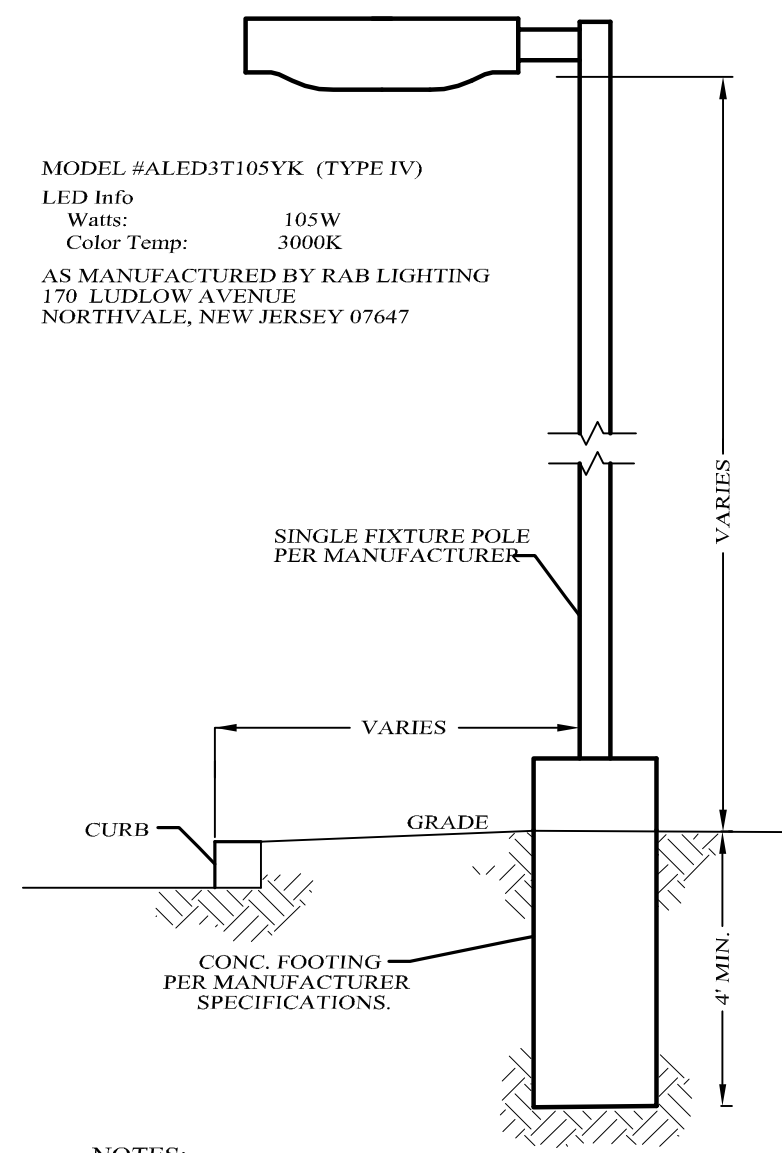


MODEL #WPLED104Y
 LED Info
 Watts: 104W
 Color Temp: 3000K
 AS MANUFACTURED BY RAB LIGHTING
 170 LUDLOW AVENUE
 NORTHVALE, NEW JERSEY 07647
 FIXTURE CAN BE TILTED TO
 DIRECT LIGHT PATTERN DOWN.
 EQUIVALENT FIXTURE MUST BE
 "SHARP CUT-OFF TYPE" SO AS TO
 PREVENT GLARE OVER BUILDINGS
 OR OUTSIDE PROPERTY LINE.
 ANCHORING AND WIRING
 PER MANUFACTURER AND ALL
 APPLICABLE CODES

WALL MOUNTED LIGHT DETAIL
 NOT TO SCALE

LIGHTING NOTES:

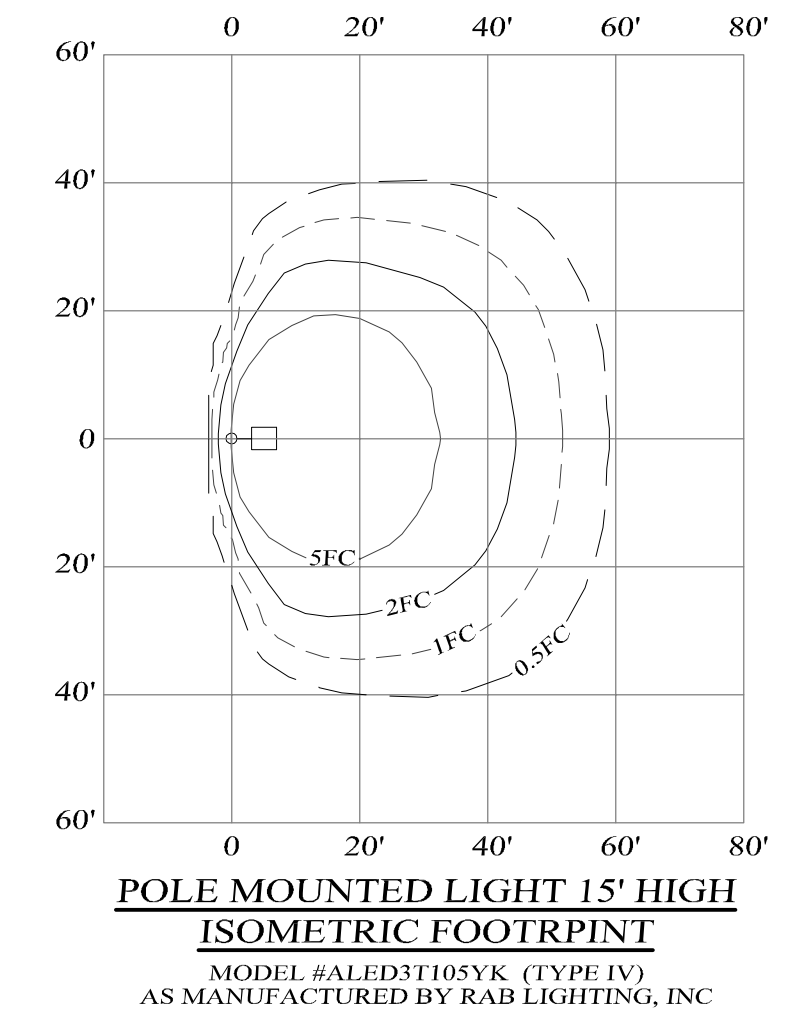
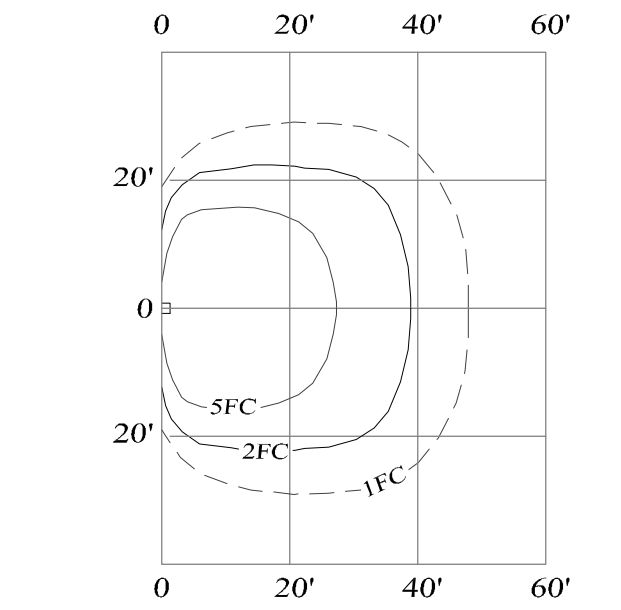
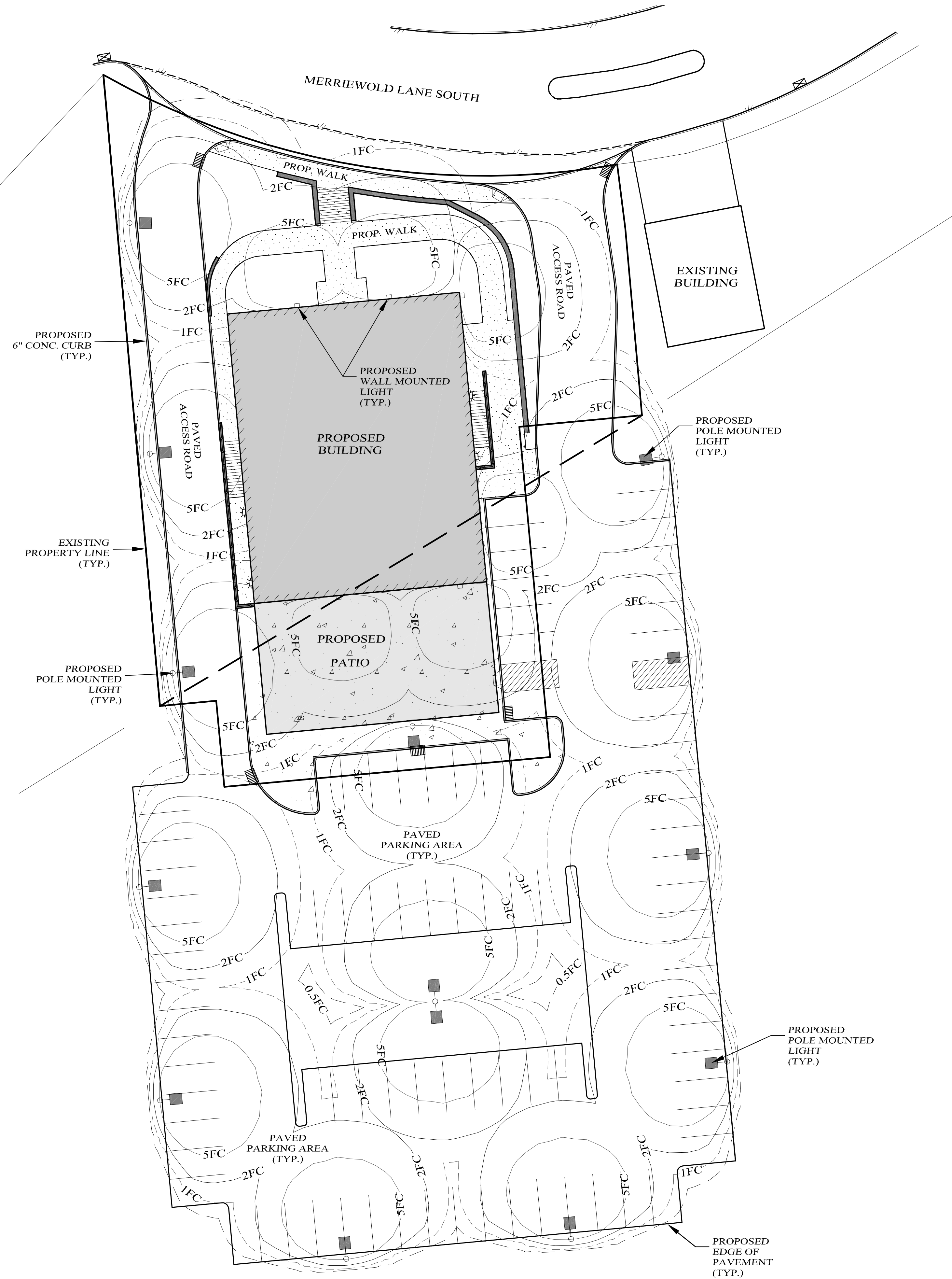
1. LIGHTING TO PROVIDE AN AVERAGE 1.0 FOOT-CANDLE LUMINESCENCE IN ALL PEDESTRIAN AREAS.
2. THERE SHALL BE NO SPILL OVER OR GLARE OUTSIDE PROPERTY LINE. FIXTURES SHALL BE EQUIPPED WITH "HOUSE SIDE SHIELDS" TO ESTABLISH A SHARP CUTOFF OF LIGHT BEHIND THE PROPOSED FIXTURE.



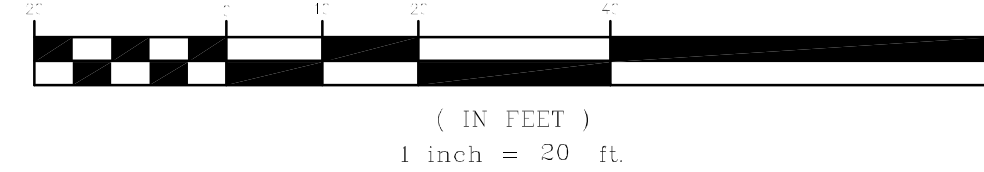
MODEL #ALEDD3T105YK (TYPE IV)
 LED Info
 Watts: 105W
 Color Temp: 3000K
 AS MANUFACTURED BY RAB LIGHTING
 170 LUDLOW AVENUE
 NORTHVALE, NEW JERSEY 07647

- NOTES:
 1. ALL ELECTRICAL COMPONENTS TO BE AS SPECIFIED BY MANUFACTURER AND INSTALLED IN CONFORMANCE WITH ALL APPLICABLE BUILDING CODES.

POLE MOUNTED SINGLE LIGHT DETAIL
 NOT TO SCALE



GRAPHIC SCALE



LEGEND

EXISTING PROPERTY LINE	—————
PROPOSED PROPERTY LINE	—————
EXISTING 2' CONTOUR LINE	—————
EXISTING 10' CONTOUR LINE	—————
PROPOSED CONTOUR LINE	—————
EXISTING EDGE OF PAVEMENT	—————
PROPOSED EDGE OF PAVEMENT	—————
PROPOSED CONC. CURB	—————

Lands of
31 MERRIEWOLD LANE SOUTH
 VILLAGE OF SOUTH BLOOMING GROVE,
 ORANGE COUNTY, NEW YORK

LIGHTING PLAN

DRAWING TITLE

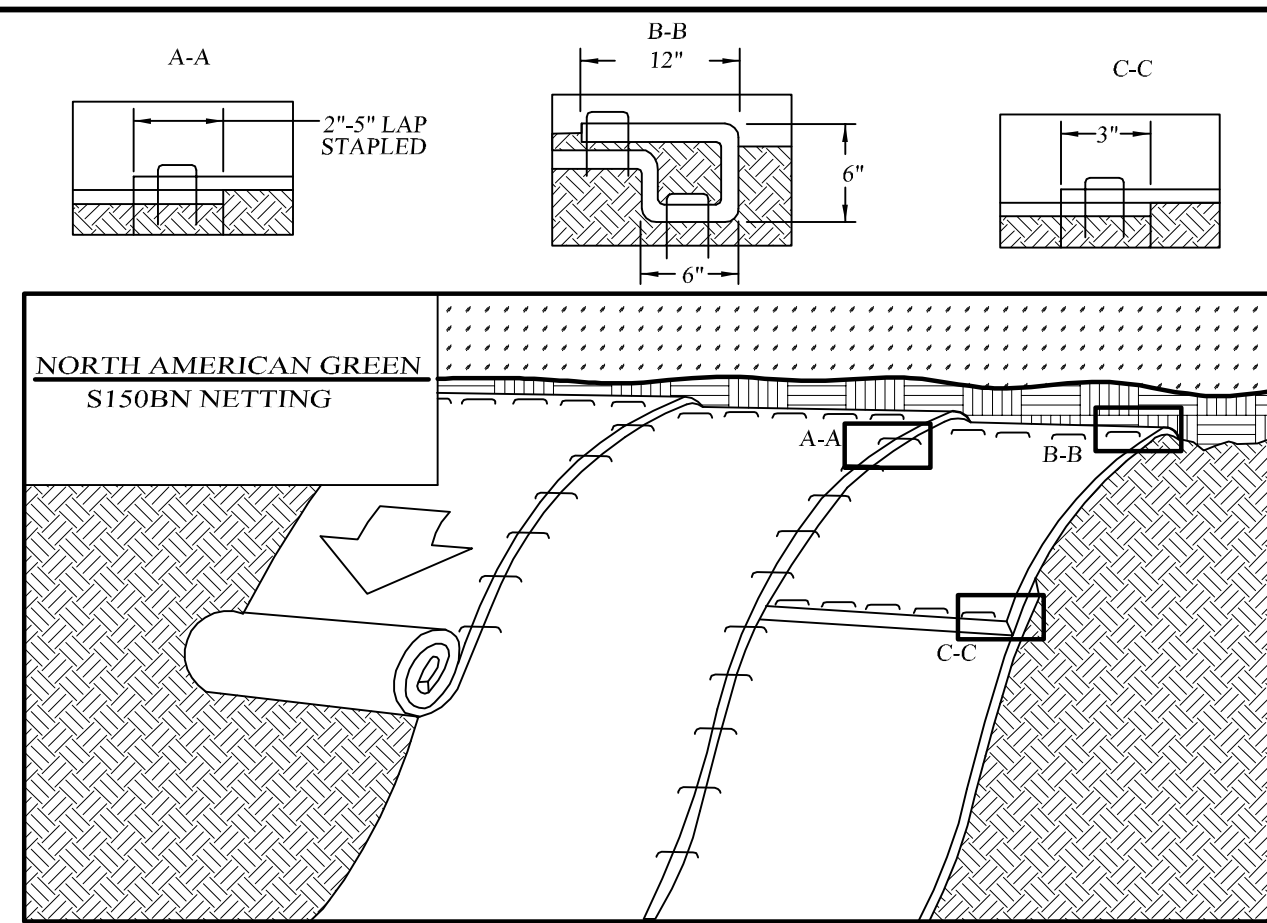
KIRK ROTHER, P.E.
 CONSULTING ENGINEER, PLLC

5 St. Stephens Lane, Warwick, NY 10990
 (845) 938-0620



03-22-22	INITIAL PREPARATION	KIRK ROTHER, P.E.	NY S.D.C. NO. 079003	DATE
D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #	
N.A.	N.A.	N.A.	3 OF 8	
CAD #	PROJECT #	SCALE		
20129 SP	20129.0	AS SHOWN		

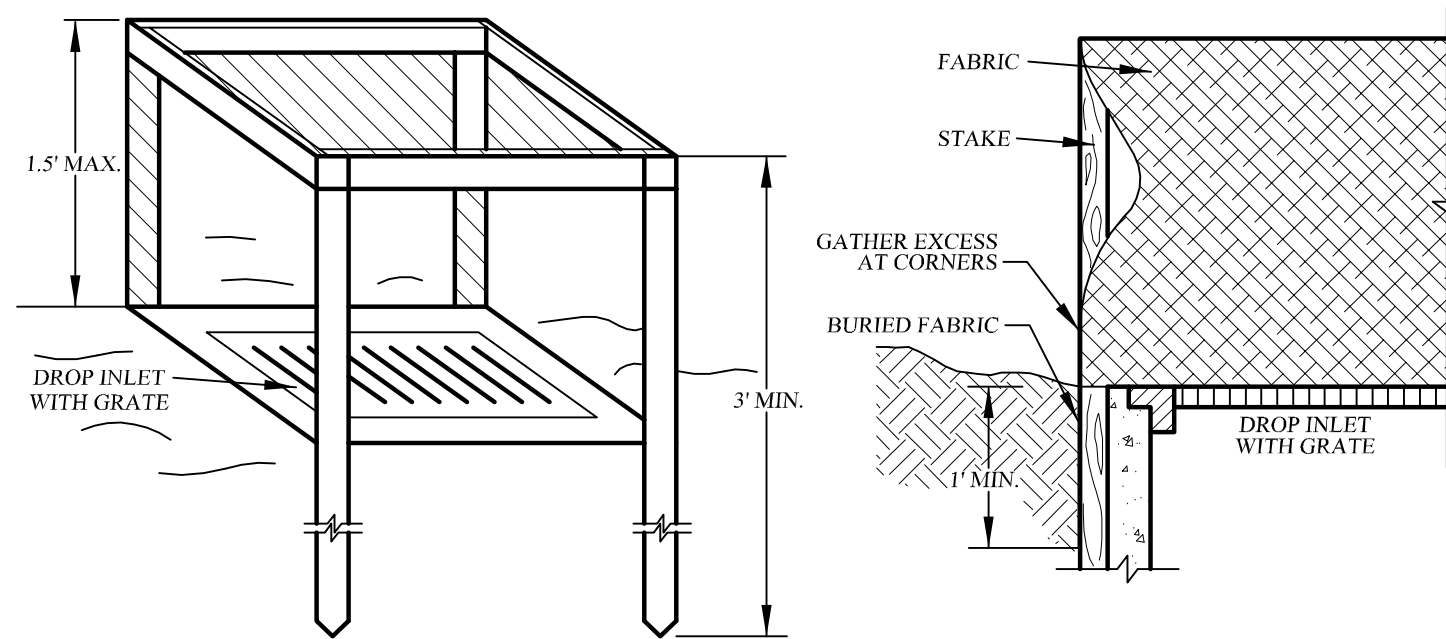
UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.



CONSTRUCTION SPECIFICATIONS:

1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECPs), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-0-SEED DO NOT SEED PREPARED AREA. CELL-0-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN. A MINIMUM OF 4 INCHES OF TOPSOIL SHALL BE ADDED PRIOR TO STABILIZATION.
 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECPs IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECPs BACK OVER SEED AND COMPACTED SOIL. SECURE RECPs OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE SLOPE.
 3. ROLL THE RECPs (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. RECPs WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECPs MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
 4. THE EDGES OF PARALLEL RECPs MUST BE STAPLED WITH APPROXIMATELY 2" X 5" (5 CM X 12.5 CM) OVERLAP DEPENDS ON RECPs TYPE.
 5. CONSECUTIVE RECPs SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAP AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECPs WIDTH.
- NOTE:
 *IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECPs.

ROLLED EROSION CONTROL MATTING SLOPE STABILIZATION DETAIL
 NOT TO SCALE



CONSTRUCTION SPECIFICATIONS:

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 2" X 4" WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH OF 3 FEET.
4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM OF 1/8" 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 2" X 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVERFLOW STABILITY.

FILTER FABRIC DROP INLET PROTECTION DETAIL
 NOT TO SCALE

PERMANENT SEEDING MIXTURES

MODERATE TO STEEP SLOPES AND LOW MAINTENANCE AREAS		SHADY DRY SITES (WELL TO SOMEWHAT POORLY DRAINED SOILS)	
SPECIES	APPLICATION RATE	SPECIES	APPLICATION RATE
EMPIRE BIRDSFOOT TREFLOID	8 LBS/ACRE	80% SHADE TOLERANT KENTUCKY BLUEGRASS BLEND	105-138 LBS/ACRE
TALL FESCUE	20 LBS/ACRE	20% PERENNIAL RYEGRASS	25-37 LBS/ACRE
RYEGRASS	5 LBS/ACRE		
GENERAL RECREATION AREAS AND LAWNS		SHADY WET SITES (SOMEWHAT POOR TO POORLY DRAINED SOILS)	
SPECIES	APPLICATION RATE	SPECIES	APPLICATION RATE
SUNNY SITES (WELL, MODERATELY WELL AND SOMEWHAT POORLY DRAINED SOILS)		80% ROUGH BLUEGRASS	60-91 LBS/ACRE
65% KENTUCKY BLUEGRASS BLEND	85-114 LBS/ACRE	20% SHADE TOLERANT KENTUCKY BLUEGRASS BLEND	25-39 LBS/ACRE
20% PERENNIAL RYEGRASS	26-35 LBS/ACRE		
15% FINE FESCUE	10-26 LBS/ACRE		
SUNNY DROUGHTY SITES (SOMEWHAT TO EXCESSIVELY DRAINED SOILS)			
65% FINE FESCUE	114-143 LBS/ACRE		
15% PERENNIAL RYEGRASS	26-33 LBS/ACRE		
20% KENTUCKY BLUEGRASS BLEND	35-44 LBS/ACRE		

SITE PREPARATION

1. INSTALL NEEDED WATER AND EROSION CONTROL MEASURES AND BRING AREA TO BE SEED TO DESIRED GRADES USING A MINIMUM OF 4" OF TOPSOIL.
2. PREPARE SEED BED BY LOOSENING SOIL TO A DEPTH OF 4-6 INCHES.
3. LIME TO A pH OF 6.5.
4. FERTILIZE PER SOIL TESTS, OR, IF FERTILIZER IS TO BE APPLIED BEFORE SOIL TESTS, APPLY 850 POUNDS OF 5-10-10 OR EQUIVALENT PER ACRE (20 LBS./1000 SQ. FT.)
5. INCORPORATE LIME AND FERTILIZER TO TOP 2-4 INCHES OF SOIL.
6. SMOOTH. REMOVE ALL STONES OVER 1" IN DIAMETER, STICKS AND FOREIGN MATTER. FIRM SEED BED.
7. APPLY SEED PER PERMANENT SEEDING SCHEDULE.

SLOPE STABILIZATION, SEEDING METHOD & MULCHING

SLOPES OF 4:1 OR GREATER (HORIZONTAL-VERTICAL)

SLOPES SHALL BE HYDROSEEDING WITH THE MIXTURES AND RATES INDICATED IN THE PERMANENT SEEDING MIXTURE SCHEDULE. STRAW OR HAY MULCH SHALL BE APPLIED AT A RATE OF 2 TONS/ACRE. STRAW OR HAY MULCH SHALL BE ANCHORED WITH GEO-TIE EROSION CONTROL NETTING AS MANUFACTURED BY MIRAPOST OR APPROVED EQUIVALENT. NETTING TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS.

TEMPORARY SEEDING SPECIFICATIONS

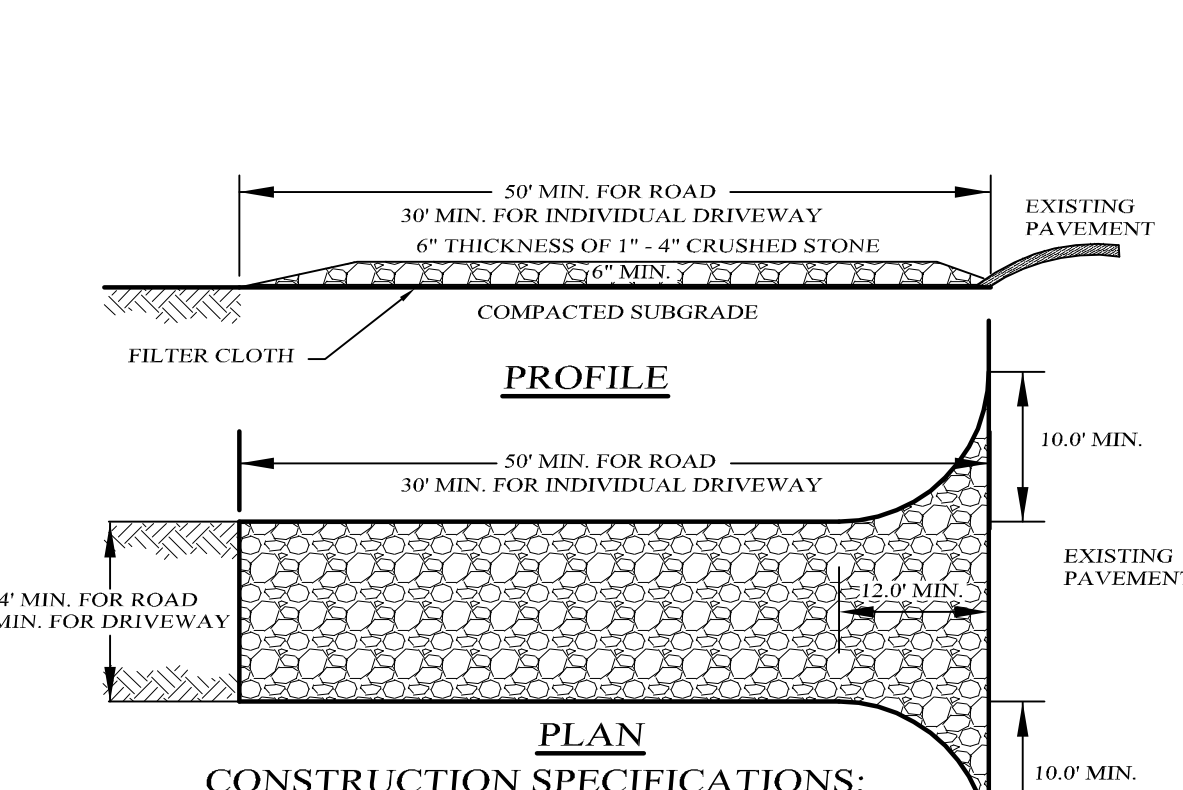
AREAS REMAINING DISTURBED FOR 14 DAYS OR MORE SHALL BE STABILIZED AS FOLLOWS:

SCARIFY SOILS IF COMPACTED, LIME TO pH OF 6.0 IF REQUIRED, FERTILIZE WITH 400 LBS/ACRE 5-10-10 FERTILIZER IF REQ. SEED WITH SPECIES AND RATE SHOWN BELOW. MULCH WITH HAY OR STRAW AT A RATE OF 2 TONS/ACRE. ANCHOR MULCH WITH NETTING OF WOOD FIBER OR JUTE IF STEEP SLOPE OR HIGH POTENTIAL FOR EROSION.

SPECIES	APPLICATION RATE
RYEGRASS (ANNUAL OR PERENNIAL) (USE WINTER RYE IF SEEDING IN OCT/NOV.)	80 LBS/ACRE (0.7 LBS/1000 SQ. FT.)

GENTLE SLOPES AND FLAT AREAS

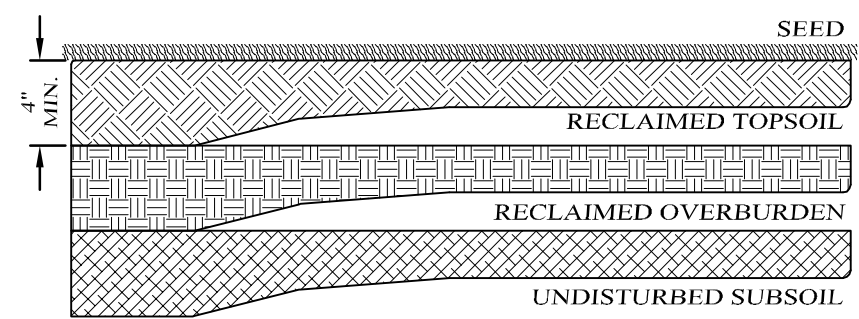
AREAS SHALL BE SEED BY HYDROSEEDING OR BROADCASTING WITH THE MIXTURES AND RATES INDICATED ON THE PERMANENT SEEDING MIXTURE SCHEDULE. HYDROSEEDED AREAS SHALL BE MULCHED WITH A WOOD FIBER MULCH APPLIED AT A RATE OF 500 LBS/ACRE. BROADCAST AREAS SHALL BE MULCHED WITH HAY OR STRAW AT A RATE OF 2 TONS/ACRE. AREAS SEED BY BROADCASTING SHALL BE LIGHTLY RAKED AND PACKED PRIOR TO PLACING MULCH.



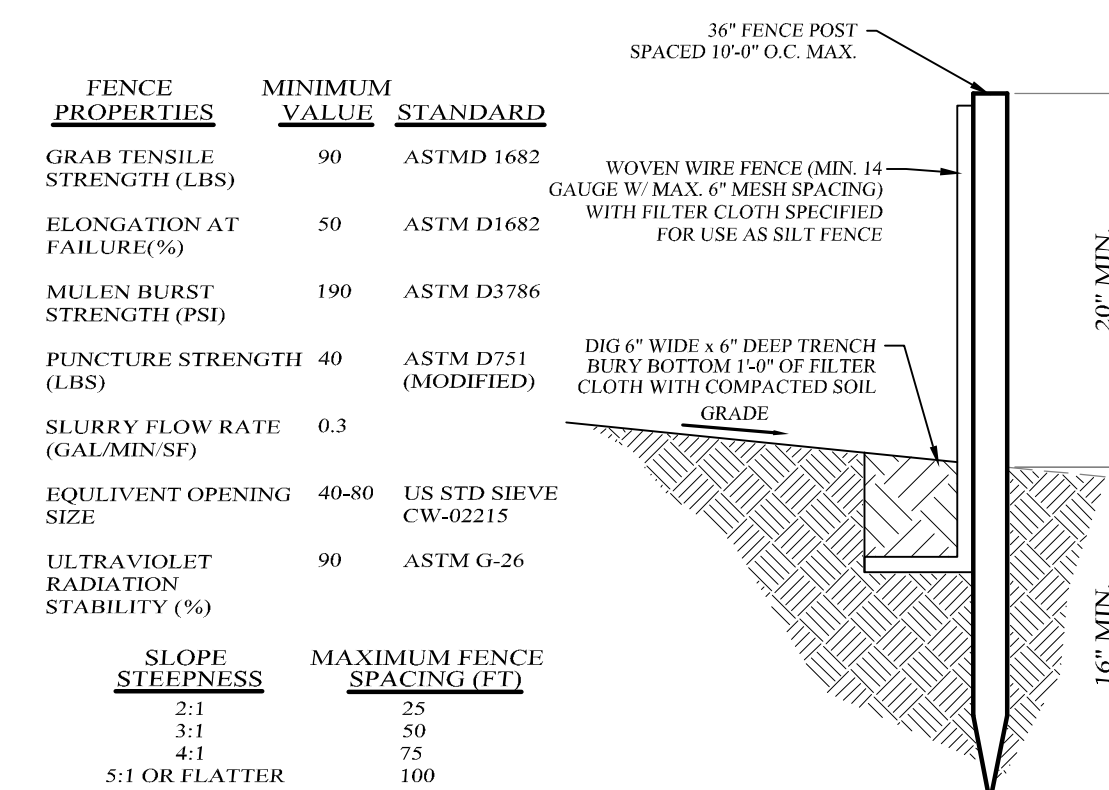
CONSTRUCTION SPECIFICATIONS:

1. ENTRANCE SHALL BE MAINTAINED AS CONDITIONS DEMAND TO PREVENT TRACKING OF SEDIMENT ONTO PUBLIC R.O.W. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC R.O.W. MUST BE REMOVED IMMEDIATELY.
2. A CRUSHED STONE VEHICLE WHEEL-CLEANING BLANKET WILL BE INSTALLED WHERE A CONSTRUCTION ACCESS ROAD INTERSECTS ANY PAVED ROADWAY. THE BLANKET SHALL BE COMPOSED OF 6" DEPTH OF 1"-4" CRUSHED STONE. SHALL BE AT LEAST 24" X 50' FOR THE ROAD ENTRANCE AND 12" X 30' FOR DRIVEWAYS AND SHALL BE PLACED ON COMPACTED SUB-GRADE.
3. A FILTER CLOTH WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
4. ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH THE ENTRANCE IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
5. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE DETAIL
 NOT TO SCALE

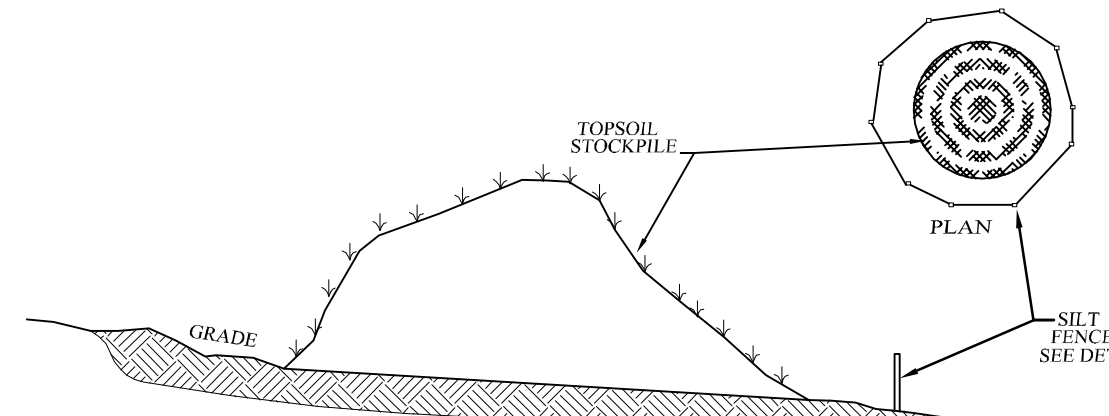


RECLAMATION DETAIL
 NOT TO SCALE



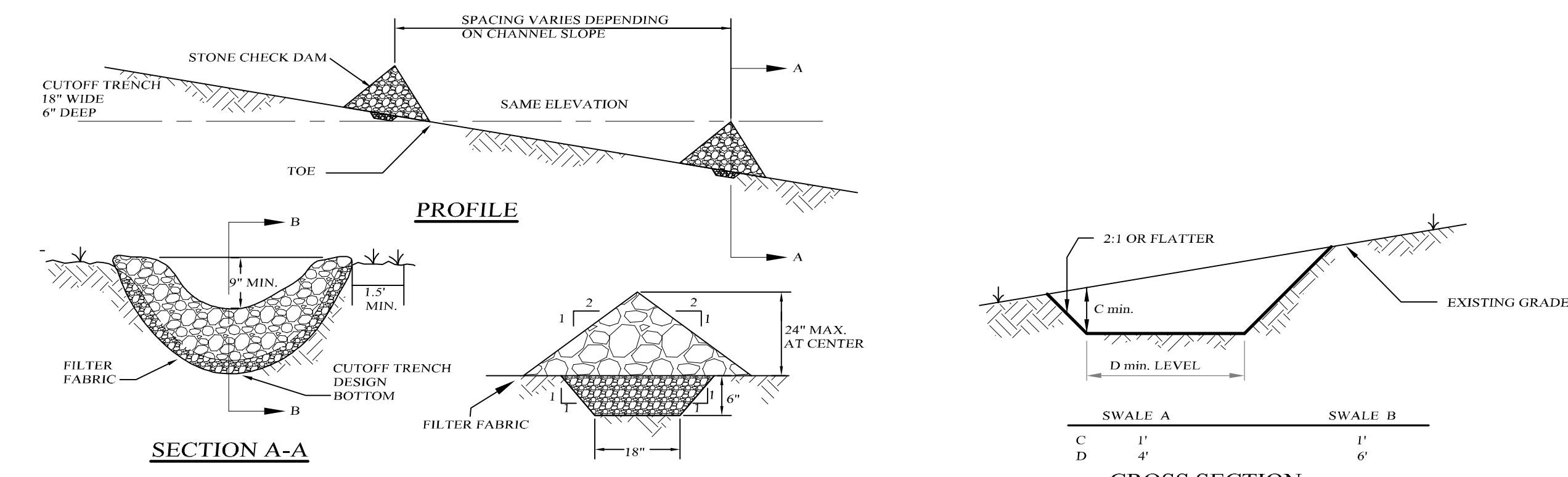
- NOTES:**
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
 2. WOOD POSTS SHALL BE OF SOUND QUALITY HARDWOOD WITH A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQUARE INCHES.
 3. STEEL POSTS WILL BE STANDARD "T" AND "U" SECTION WEIGHING NOT LESS THAN 100 POUNDS PER LINEAR FOOT.
 4. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAXIMUM MESH OPENING.
 5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAPOST, STABILINKA T400, OR APPROVED EQUAL.
 6. PREFABRICATED UNITS SHALL BE GEORAF, ENVIROFENCE, OR APPROVED EQUAL.
 7. ALL SILT FENCES SHALL RUN PARALLEL TO THE CONTOUR OF THE LAND.
 8. ALL SILT FENCING SHALL MEET THE MINIMUM REQUIREMENTS AS STATED UNLESS OTHERWISE NOTED AND APPROVED BY THE BUILDING INSPECTOR AND ENGINEER.
 9. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL SHALL BE REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

FILTER FABRIC SILT FENCE DETAIL
 NOT TO SCALE



- NOTES:**
1. TOPSOIL STOCKPILE TO BE SEED AS PER THE TEMPORARY SEEDING SPECIFICATIONS.
 2. SILT FENCE TO BE INSTALLED DOWN GRADIENT OF STOCKPILE.

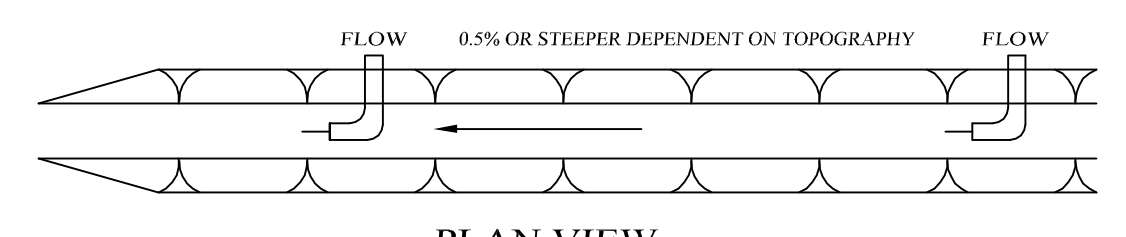
TOPSOIL STOCKPILE DETAIL
 NOT TO SCALE



CHECK DAM DETAILS
 NOT TO SCALE

CONSTRUCTION SPECIFICATIONS:

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
2. SET SPACING OF CHECK DAMS TO ASSURE THAT THE ELEVATION OF THE CREST OF THE DOWN STREAM DAM IS AT THE SAME ELEVATION OF THE TOP OF THE UPSTREAM DAM.
3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR BLOCKS FROM DISPLACED STONES.
5. ENSURE THAT CHANNEL APERTURES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE.
6. MAXIMUM DRAINAGE AREA IS 2 ACRES ABOVE THE CHECK DAM.



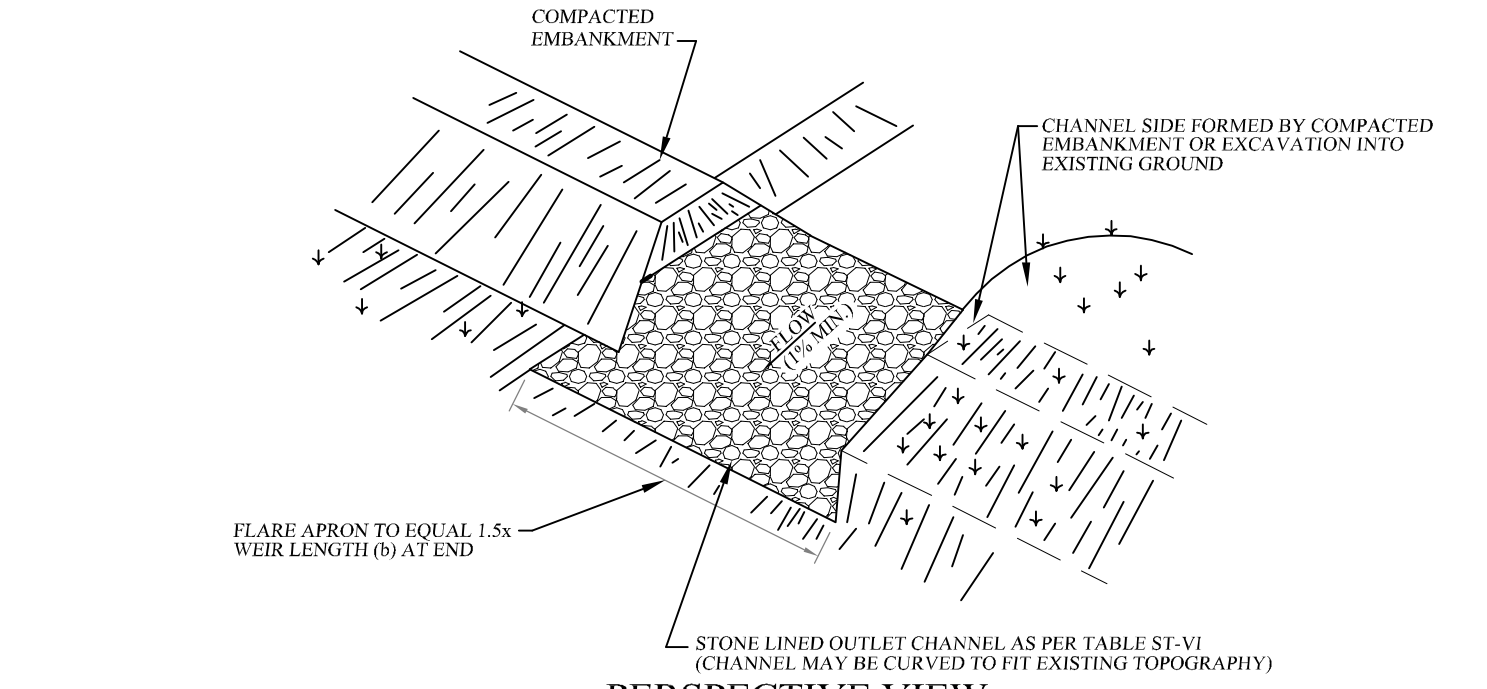
CONSTRUCTION SPECIFICATIONS:

1. ALL TEMPORARY SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
4. ALL TREES, BRUSH STUMPS, OBSTRUCTIONS, AND OTHER OBSTRUCTABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.
5. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH IMPED NORMAL FLOW.
6. ALL PILLS ARE TO BE MECHANICALLY COMPACTED.
7. ALL EARTH REMOVED AND NOT NEEDED SHALL BE PLACED AS NOT TO INTERFERE WITH THE FUNCTIONING OF THE SWALE.
8. REFER TO CHART FOR STABILIZATION OF FLOW CHANNEL.
9. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

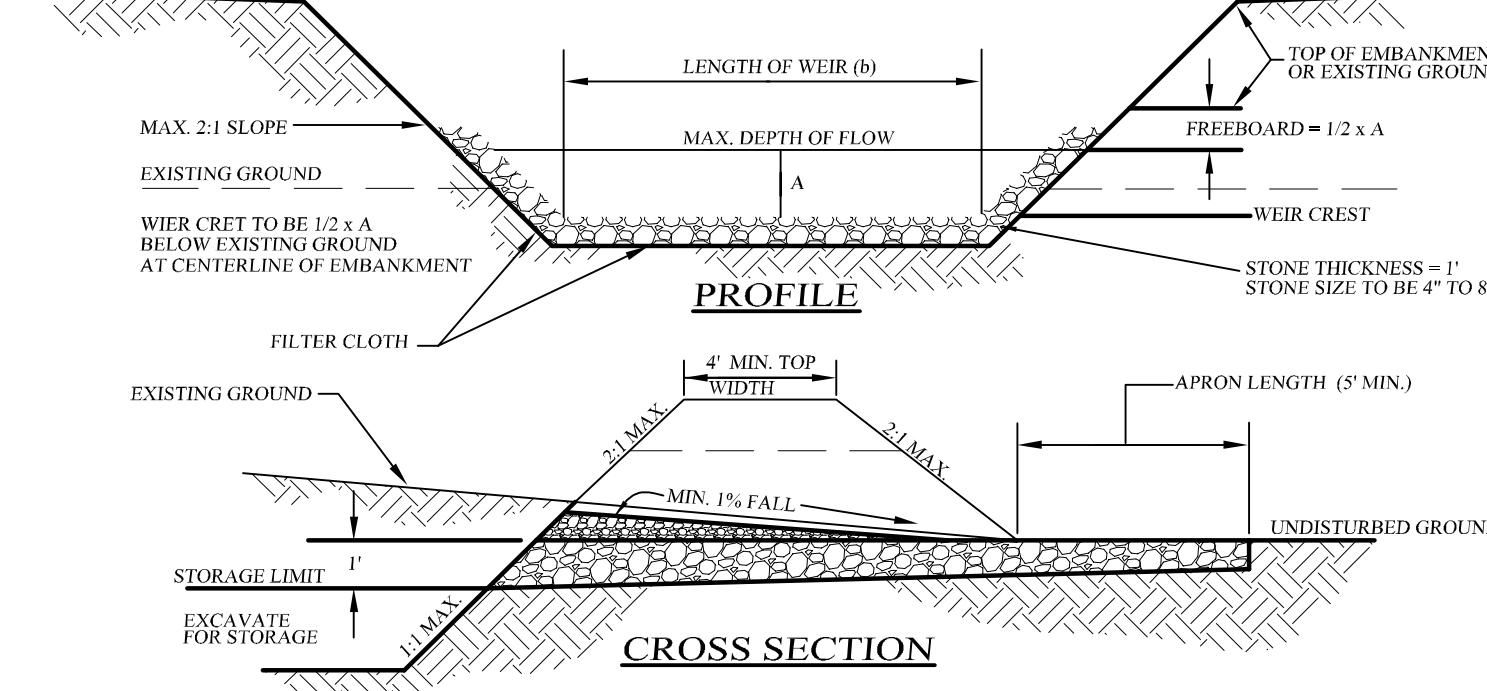
FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	A (5 AC OR LESS)	B (5 AC-10 AC)
1.	0.5-1.0	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2.	1.5-5.0	SEED AND STRAW MULCH	SEED USING JUTE OR EXCELOR
3.	5.1-8.0	SEED WITH JUTE OR EXCELOR/SCOD	LINED RIPRAP 4-8"
4.	8.1-20	LINED 4-8" RIPRAP	RECYCLED CONCRETE EQUIVALENT ENGINEERED DESIGN

TEMPORARY DIVERSION SWALE DETAIL
 NOT TO SCALE



SEDIMENT TRAP CRITERIA



RIPRAP OUTLET SEDIMENT TRAP CONSTRUCTION SPECIFICATIONS:

1. THE AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
2. THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED. MAXIMUM HEIGHT OF EMBANKMENT SHALL BE FIVE (5) FEET, MEASURED AT CENTERLINE OF EMBANKMENT.
3. ALL FILL SLOPES SHALL BE 2:1 OR FLATTER, CUT SLOPES 1:1 OR FLATTER.
4. ELEVATION OF THE TOP OF ANY DIKE DIRECTING WATER INTO TRAP MUST EQUAL OR EXCEED HEIGHT OF EMBANKMENT.
5. STORAGE AREA PROVIDED SHALL BE FIGURED BY COMPUTING THE VOLUME AVAILABLE BEHIND THE OUTLET CHANNEL UP TO AN ELEVATION OF ONE (1) FOOT BELOW THE WEIR CREST.
6. FILTER CLOTH SHALL BE PLACED OVER THE BOTTOM AND SIDES OF THE OUTLET CHANNEL PRIOR TO PLACEMENT OF STONE. SECTIONS OF FABRIC MUST OVERLAP AT LEAST ONE (1) FOOT WITH SECTION NEAREST THE ENTRANCE PLACED ON TOP. FABRIC SHALL BE EMBEDDED AT LEAST SIX (6) INCHES INTO EXISTING GROUND AT ENTRANCE OF OUTLET CHANNEL.
7. STONE USED IN THE OUTLET CHANNEL SHALL BE FOUR (4) TO EIGHT (8) INCHES (RIPRAP) TO PROVIDE A FILTERING EFFECT. A LAYER OF FILTER CLOTH SHALL BE EMBEDDED ONE (1) FOOT WITH SECTION NEAREST ENTRANCE PLACED ON TOP. FABRIC SHALL BE EMBEDDED AT LEAST SIX (6) INCHES INTO EXISTING GROUND AT ENTRANCE OF OUTLET CHANNEL.
8. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
9. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND SHALL BE REPAIRED AS NEEDED.
10. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION ARE MINIMIZED.
11. THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
12. DRAINAGE AREA FOR THIS PRACTICE IS LIMITED TO 15 ACRES.

Lands of
31 MERRIEWOLD LANE SOUTH
 VILLAGE OF SOUTH BLOOMING GROVE,
 ORANGE COUNTY, NEW YORK

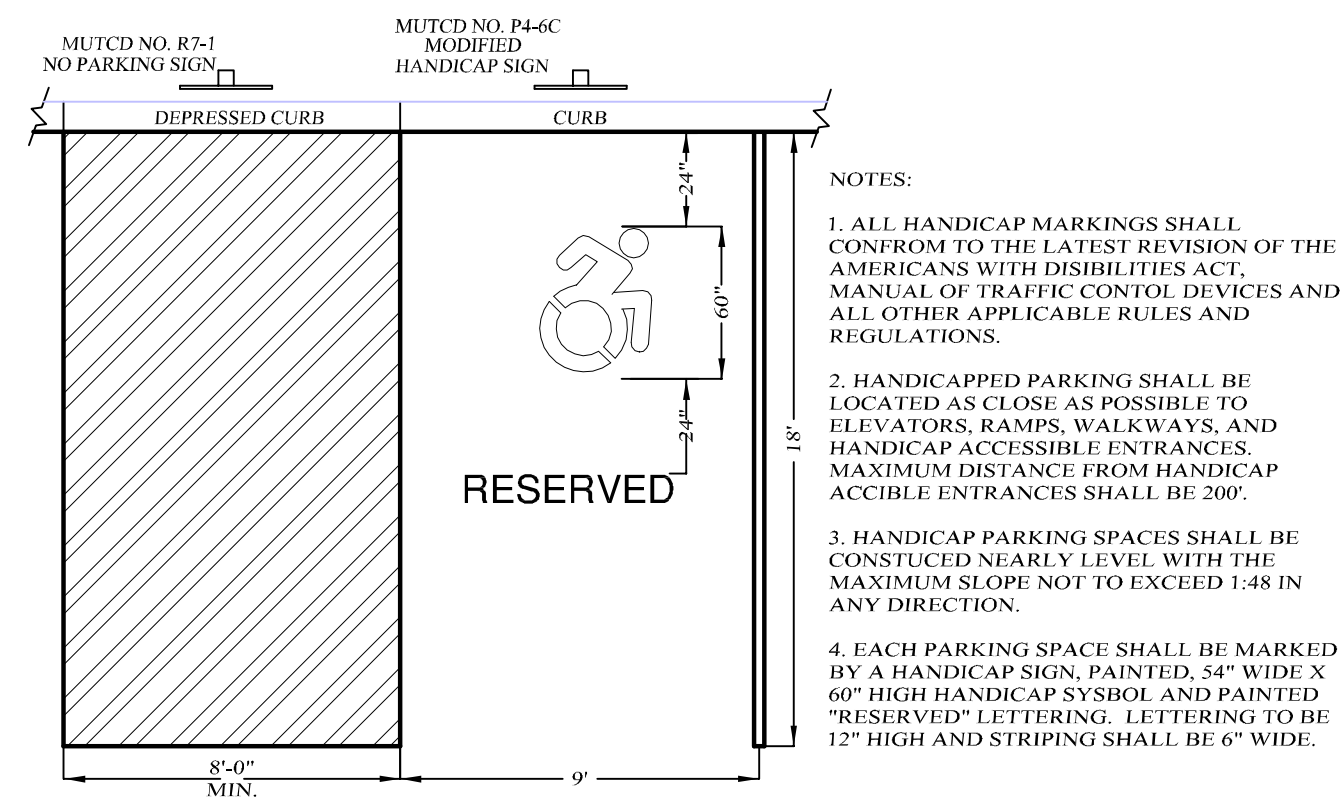
EROSION CONTROL DETAILS

DRAWING TITLE

KIRK ROTHER, P.E.
 CONSULTING ENGINEER, PLLC
 5 St. Stephens Lane, Warwick, NY 10990
 (845) 948-0620

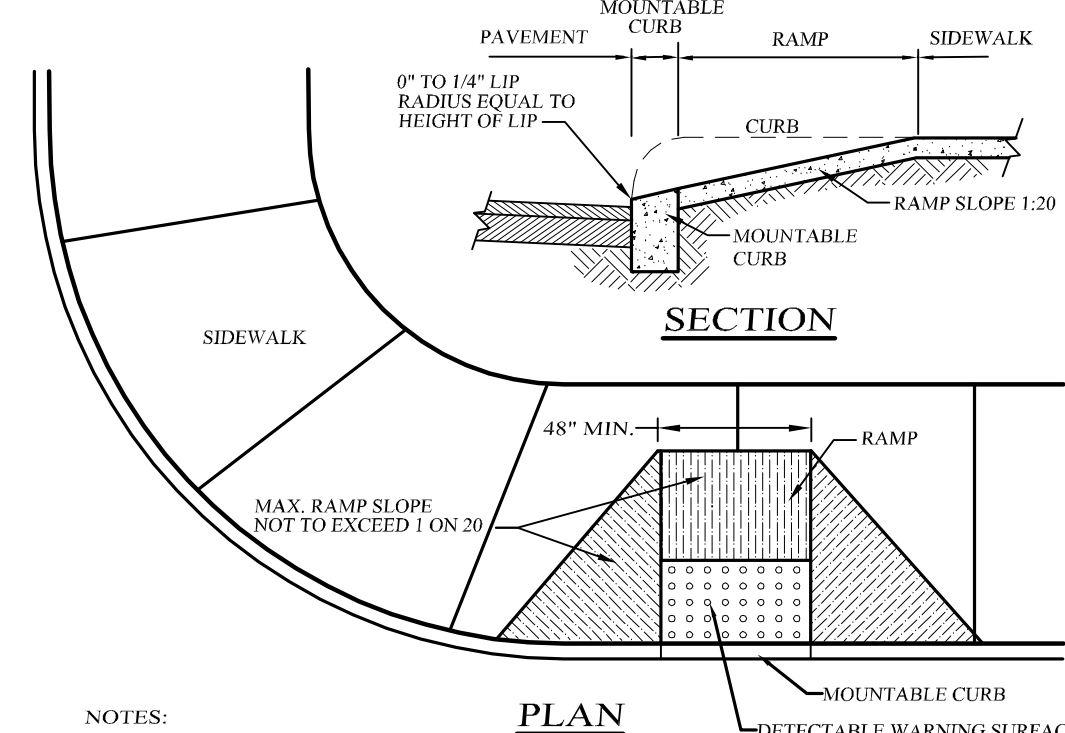
DATE	INITIAL PREPARATION	KIRK ROTHER, P.E.	DATE
03-22-22			

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.			
D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	5 OF 8
CAD #	PROJECT #	SCALE	
20129 SP	20129.0	AS SHOWN	



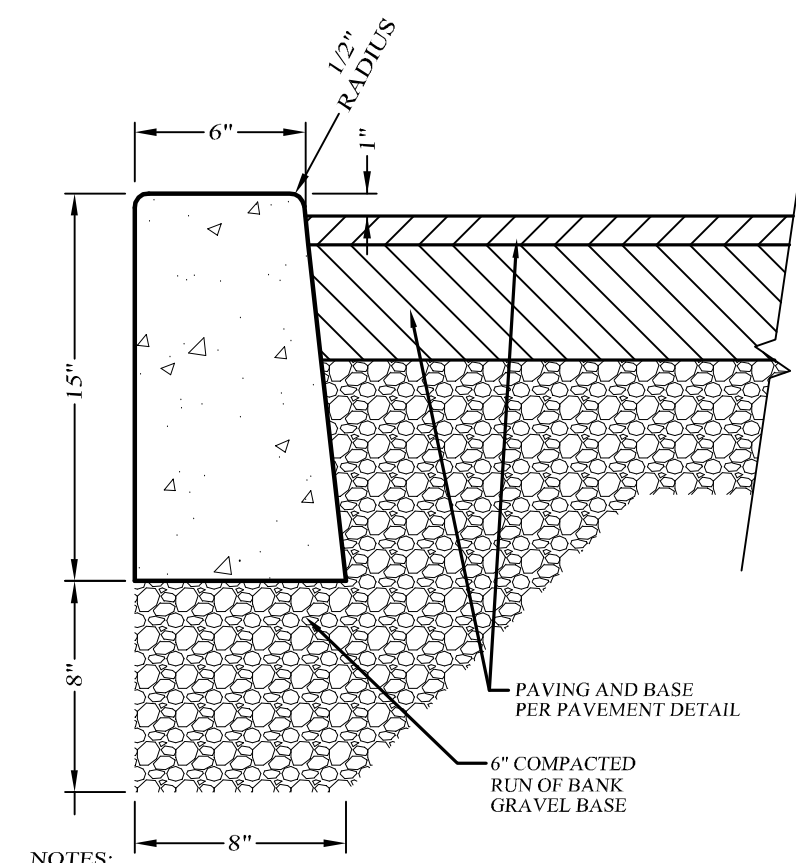
HANDICAPPED PARKING DETAIL
NOT TO SCALE

- NOTES:
1. ALL HANDICAP MARKINGS SHALL CONFORM TO THE LATEST REVISION OF THE AMERICANS WITH DISABILITIES ACT, MANUAL OF TRAFFIC CONTROL DEVICES AND ALL OTHER APPLICABLE RULES AND REGULATIONS.
 2. HANDICAPPED PARKING SHALL BE LOCATED AS CLOSE AS POSSIBLE TO ELEVATORS, RAMP, WALKWAYS, AND HANDICAP ACCESSIBLE ENTRANCES. MAXIMUM DISTANCE FROM HANDICAP ACCESSIBLE ENTRANCES SHALL BE 200'.
 3. HANDICAP PARKING SPACES SHALL BE CONSTRUCTED NEARLY LEVEL WITH THE MAXIMUM SLOPE NOT TO EXCEED 1:48 IN ANY DIRECTION.
 4. EACH PARKING SPACE SHALL BE MARKED BY A HANDICAP SIGN, PAINTED, 34" WIDE X 60" HIGH HANDICAP SYMBOL AND PAINTED "RESERVED" LETTERING. LETTERING TO BE 12" HIGH AND STRIPING SHALL BE 6" WIDE.



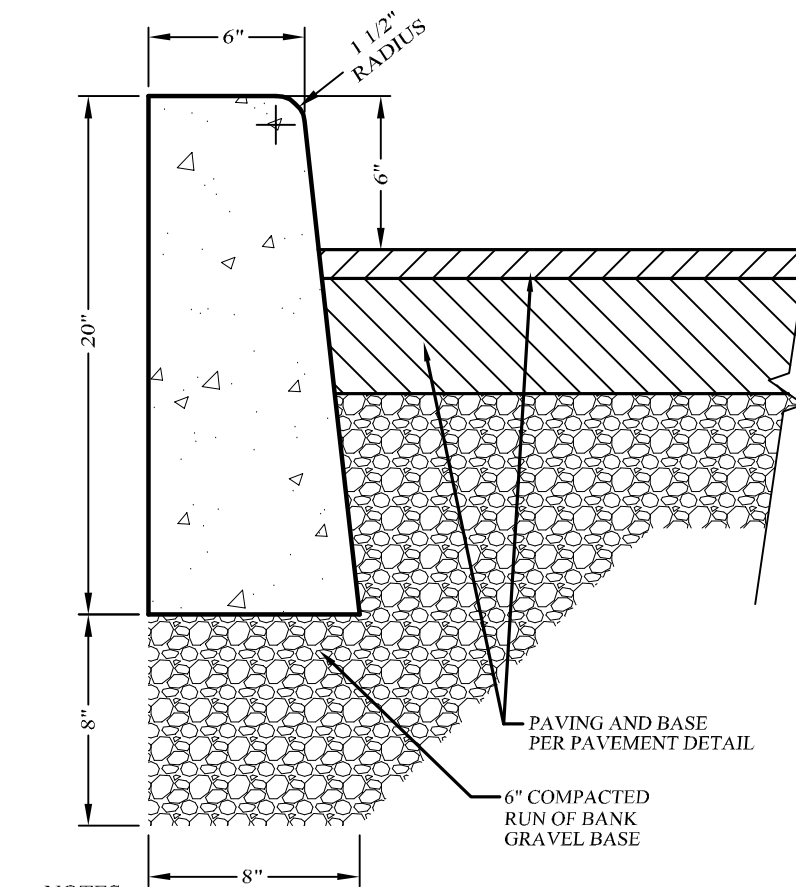
DROP CURB HANDICAP ACCESSIBLE RAMP DETAIL
NOT TO SCALE

- NOTES:
1. CONSTRUCTION OF ALL HANDICAP ACCESSIBLE FEATURES SHALL CONFORM TO THE LATEST REVISION OF ALL APPLICABLE REGULATORY STANDARDS INCLUDING THE AMERICANS WITH DISABILITIES ACT.



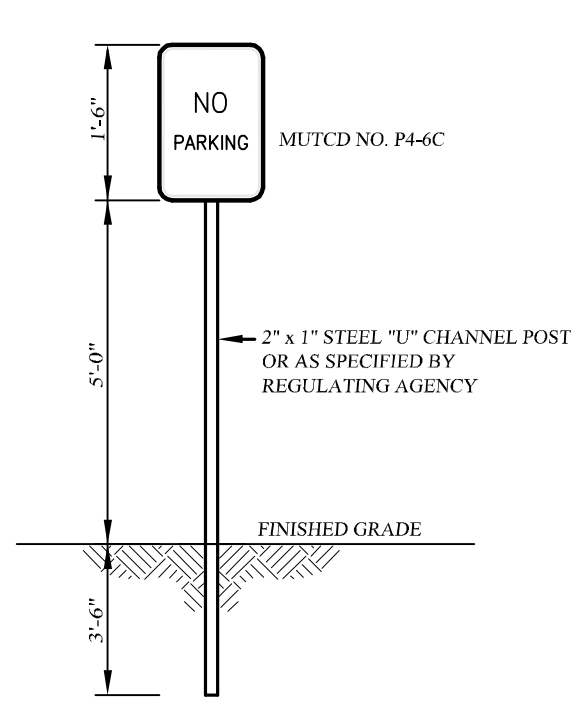
CONCRETE DROP CURB DETAIL
NOT TO SCALE

- NOTES:
1. CURB SHALL BE CAST IN PLACE CONCRETE WITH CELLULOSE, OR EQUIVALENT, EXPANSION JOINTS INSTALLED AT TEN (10) FOOT INTERVALS.
 2. MIX DESIGN SHALL BE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE GUIDELINES FOR CONCRETE EXPOSED TO FREEZING, THAWING AND DE-ICING CHEMICALS. CONCRETE SHALL HAVE A WATER-CEMENTITIOUS RATIO OF 0.45 AND AIR ENTRAINMENT OF 4.12% FOR A 1" NOMINAL AGGREGATE SIZE. CONCRETE TO TEST 4000 PSI AT 28 DAYS.

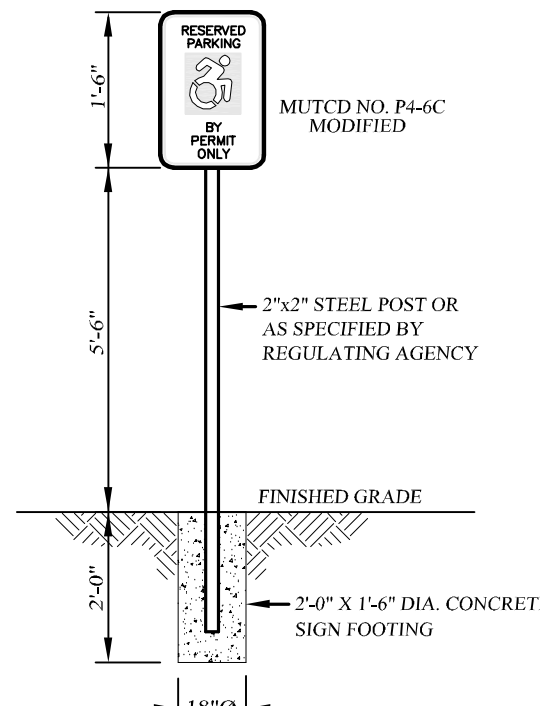


CONCRETE CURB DETAIL (WITHIN SITE)
NOT TO SCALE

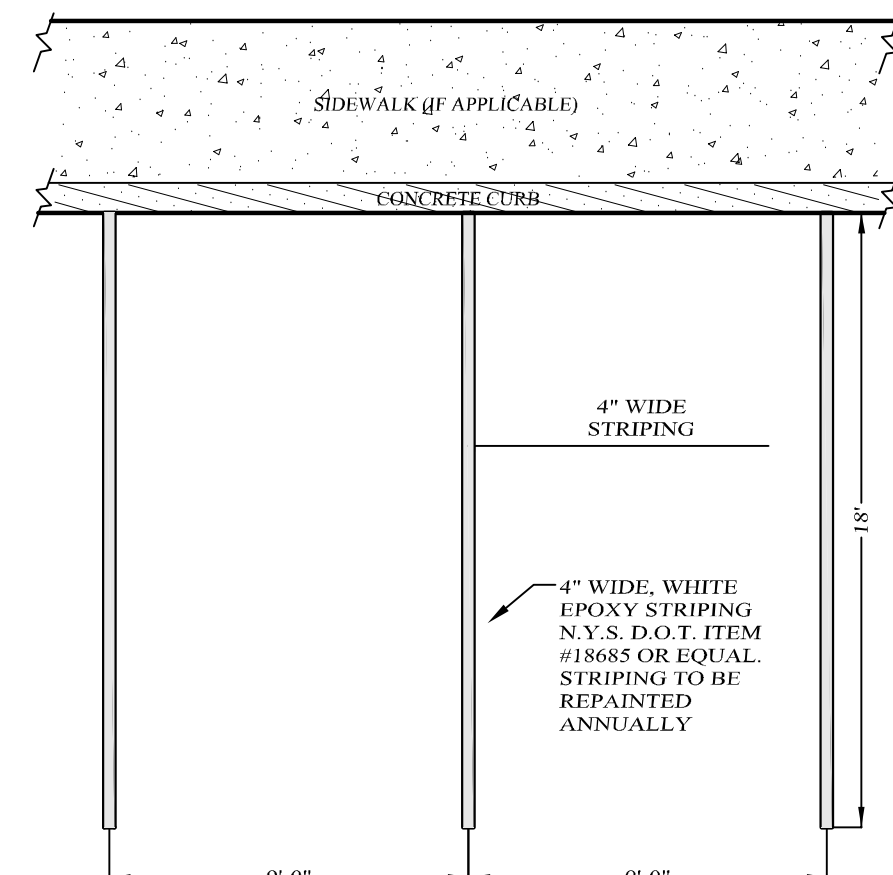
- NOTES:
1. CURB SHALL BE CAST IN PLACE CONCRETE WITH CELLULOSE, OR EQUIVALENT, EXPANSION JOINTS INSTALLED AT TEN (10) FOOT INTERVALS.
 2. MIX DESIGN SHALL BE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE GUIDELINES FOR CONCRETE EXPOSED TO FREEZING, THAWING AND DE-ICING CHEMICALS. CONCRETE SHALL HAVE A WATER-CEMENTITIOUS RATIO OF 0.45 AND AIR ENTRAINMENT OF 4.12% FOR A 1" NOMINAL AGGREGATE SIZE. CONCRETE TO TEST 4000 PSI AT 28 DAYS.



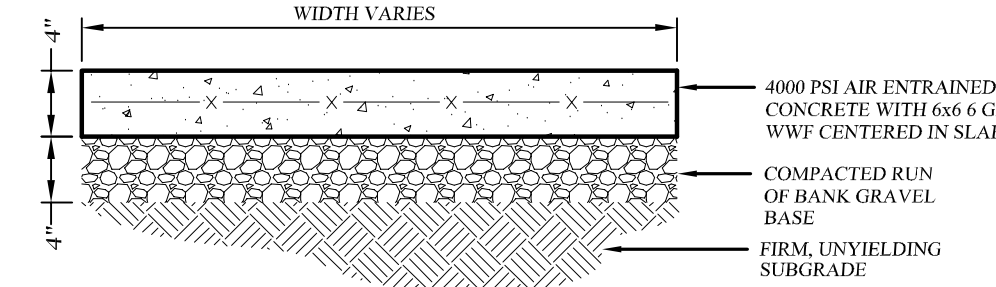
"NO PARKING" SIGN DETAIL
NOT TO SCALE



HANDICAPPED PARKING SIGN DETAIL
NOT TO SCALE

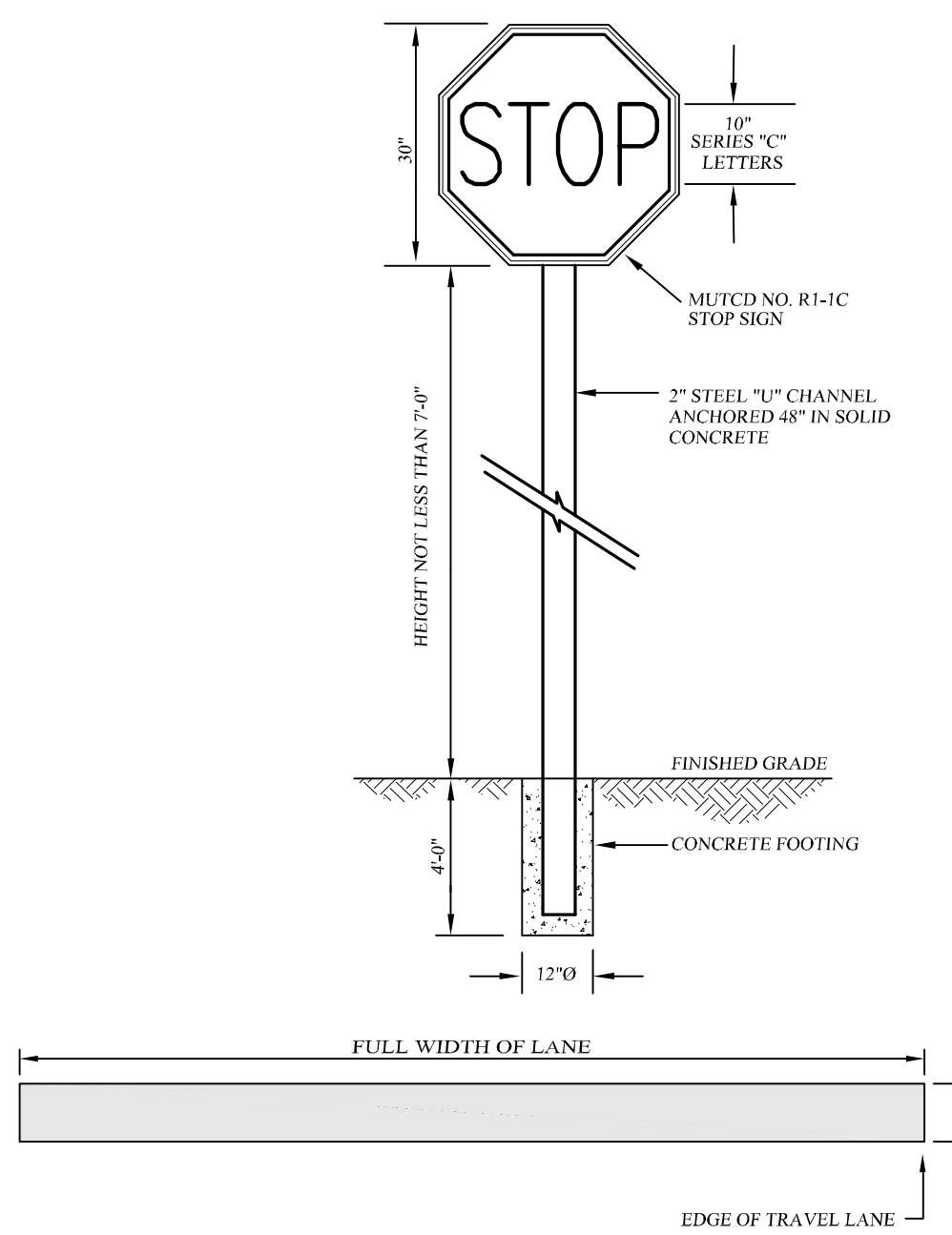


PARKING SPACE STRIPING DETAIL
NOT TO SCALE



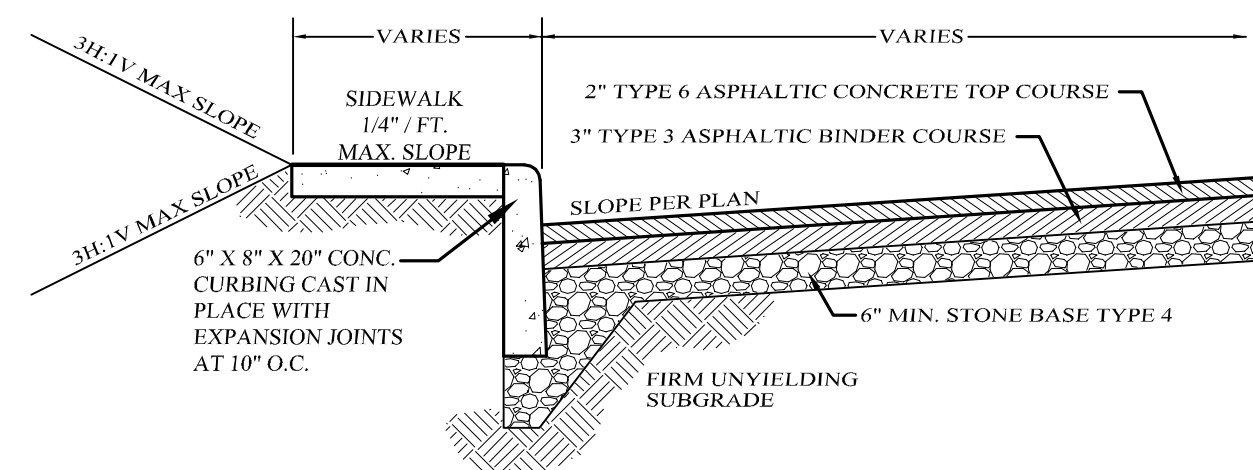
CONCRETE SIDEWALK DETAIL
NOT TO SCALE

- NOTES:
1. SIDEWALKS SHALL BE CAST IN PLACE CONCRETE WITH 1" DEEP JOINTS INSTALLED AT SPACING EQUAL TO THE SIDEWALK WIDTH.
 2. CELLULOSE, OR EQUIVALENT, EXPANSION JOINTS SHALL BE INSTALLED 20 FOOT ON CENTER. IF THE SIDEWALK IS POURED AGAINST CONCRETE CURBS, BUILDINGS OR OTHER STRUCTURES, AN EXPANSION JOINT SHALL BE INSTALLED ALONG THE ENTIRE LENGTH OF CONTACT. SIDEWALKS SHALL SLOPE AWAY FROM BUILDINGS TO PROVIDE POSITIVE DRAINAGE AND CONFORM TO THE LATEST REVISION OF ALL APPLICABLE REGULATORY STANDARDS INCLUDING THE AMERICANS WITH DISABILITIES ACT.
 3. MIX DESIGN SHALL BE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE GUIDELINES FOR CONCRETE EXPOSED TO FREEZING, THAWING AND DE-ICING CHEMICALS. CONCRETE SHALL HAVE A WATER-CEMENTITIOUS RATIO OF 0.45 AND AIR ENTRAINMENT OF 4.12% FOR A 1" NOMINAL AGGREGATE SIZE. CONCRETE TO TEST 4000 PSI AT 28 DAYS.
 4. SIDEWALK SURFACE TO BE A BROOM FINISH WITH GROOVES RUNNING PERPENDICULAR TO THE LENGTH OF SIDEWALK.
 5. NO UTILITIES ARE ALLOWED TO RUN UNDER AND ALONG THE LENGTH OF THE SIDEWALK.

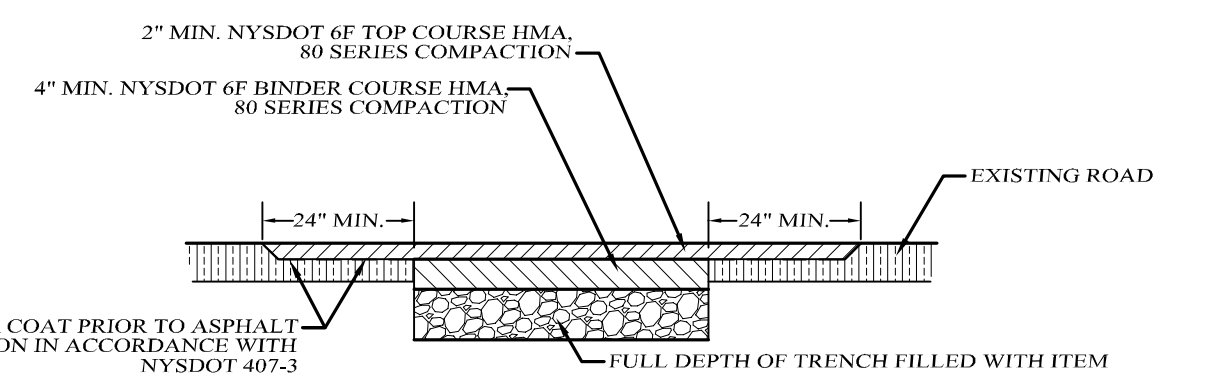


STOP BAR AND SIGN DETAIL
NOT TO SCALE

- NOTES:
1. INSTALLATION AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN SECTION 640 OF NYS DOT STANDARDS AND SPECIFICATIONS, LATEST REVISION.
 2. PAVEMENT SURFACE TO BE CLEANED AND PREPARED PRIOR TO PLACEMENT OF PAVEMENT MARKINGS IN ACCORDANCE WITH SECTION 63 OF NYS DOT STANDARDS AND SPECIFICATIONS.
 3. REFER TO APPROVED PLANS FOR ACTUAL LOCATION OF STOP LINE, SIZE AND LOCATION TO CONFORM TO MUTCD STANDARDS.
 4. PAVEMENT MARKINGS TO BE WHITE MARKING PAINT.



TYPICAL PAVEMENT SECTION PARKING LOTS & DRIVEWAYS
NOT TO SCALE



TYPICAL PAVEMENT REPLACEMENT WITHIN ROAD
NOT TO SCALE

- NOTES:
1. ALL TRENCHES TO BE SAWCUT.
 2. ALL WORK MUST BE APPROVED BY THE VILLAGE DPW SUPERINTENDENT.

Lands of
31 MERRIEWOLD LANE SOUTH
VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

SITE DETAILS

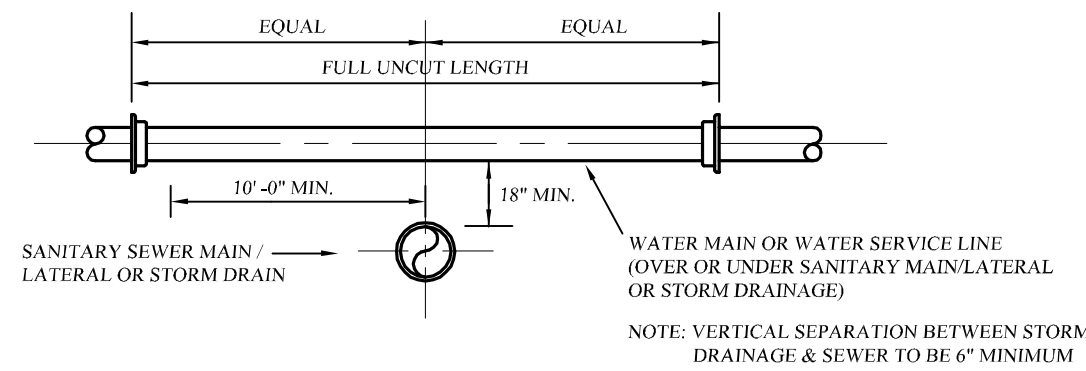
DRAWING TITLE

KIRK ROTHER, P.E.
CONSULTING ENGINEER, PLLC
5 St. Stephens Lane, Warwick, NY 10990
(845) 988-0620

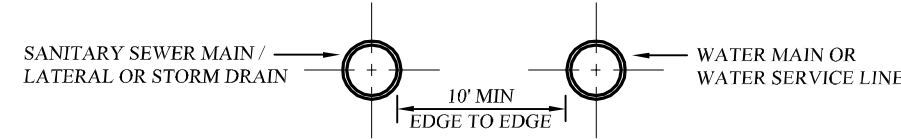
D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	6 OF 8
CAD #	PROJECT #	SCALE	
20129 SP	20129.0	AS SHOWN	

03-22-22 INITIAL PREPARATION

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.



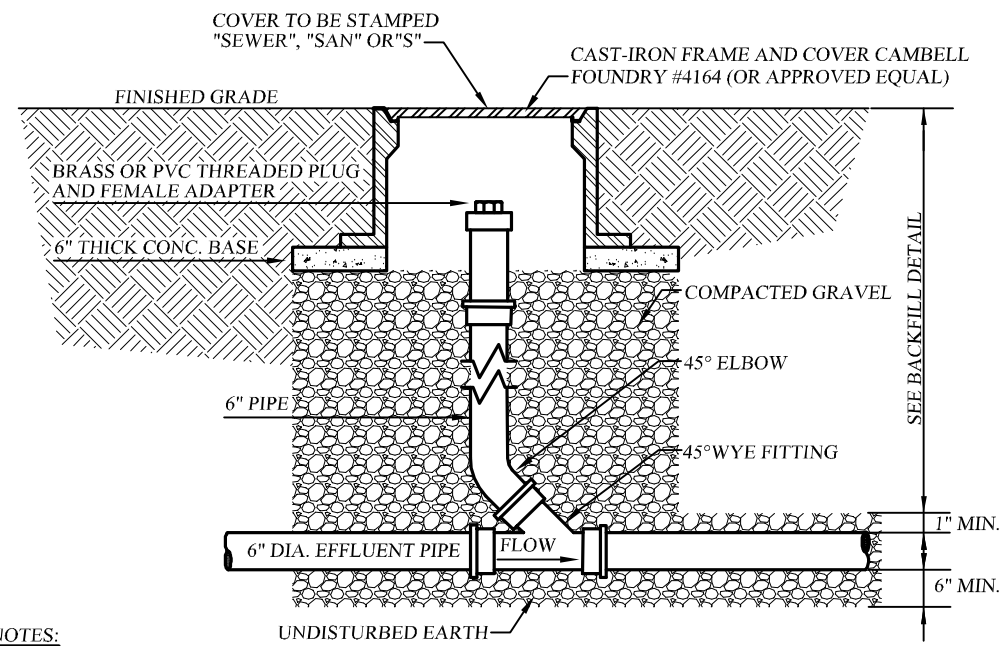
VERTICAL SEPARATION DETAIL
NOT TO SCALE



HORIZONTAL SEPARATION DETAIL
NOT TO SCALE

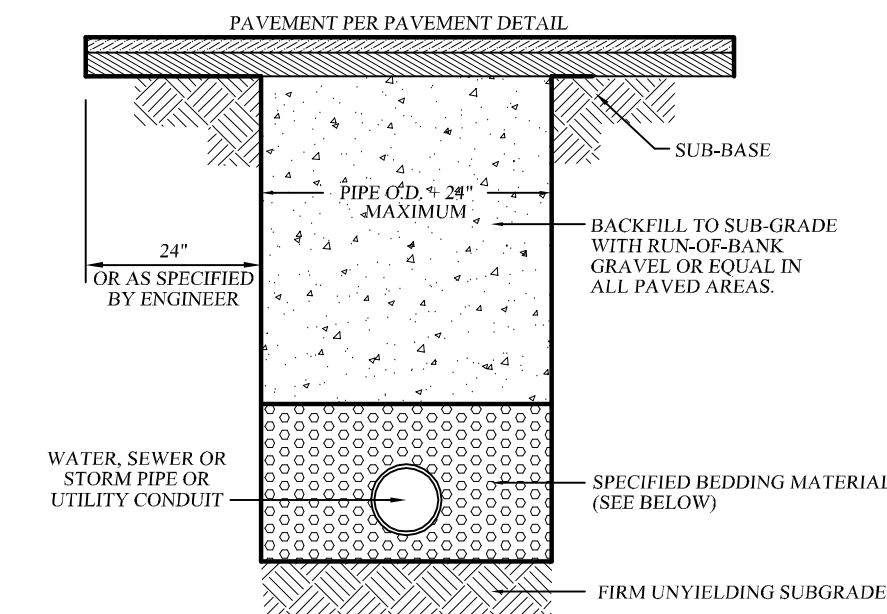
NOTE: THE SEPARATION REQUIREMENT SHALL CONFORM TO CURRENT ORANGE COUNTY DEPARTMENT OF HEALTH STATUTES, CODES, RULES, REGULATIONS AND LAWS AS THEY APPLY. ANY DEVIATION FROM THE ABOVE SEPARATION REQUIREMENTS SHALL REQUIRE WRITTEN APPROVAL FROM THE ORANGE COUNTY DEPARTMENT OF HEALTH.

WATER/SEWER SEPARATION REQUIREMENTS
NOT TO SCALE



NOTES:
1. EACH BUILDING SEWER SHALL HAVE A CLEANOUT INSTALLED APPROXIMATELY 2' DOWNSTREAM OF THE BUILDING PIPE TO BUILDING SEWER CONNECTION. THEREAFTER, CLEANOUTS SHALL BE INSTALLED ALONG THE BUILDING SEWER APPROXIMATELY EVERY 100' (MAXIMUM) FOR THE PURPOSE OF CLEANOUT LOCATIONS. DISTANCE SHALL BE MEASURED FROM THE FIRST CLEANOUT LOCATED DOWNSTREAM OF THE HOUSE PIPE TO BUILDING SEWER CONNECTION, HENCE DOWNSTREAM ALONG THE BUILDING SEWER TO THE CENTER OF THE SEWER MAIN LINE (GENERALLY LOCATED IN THE CENTER OF THE STREET).
2. A CLEANOUT LOCATED IN A ROAD, DRIVEWAY OR PARKING AREA SHALL REQUIRE A CAMBELL FOUNDRY #4164 CAST IRON FRAME AND COVER, (OR APPROVED EQUAL).

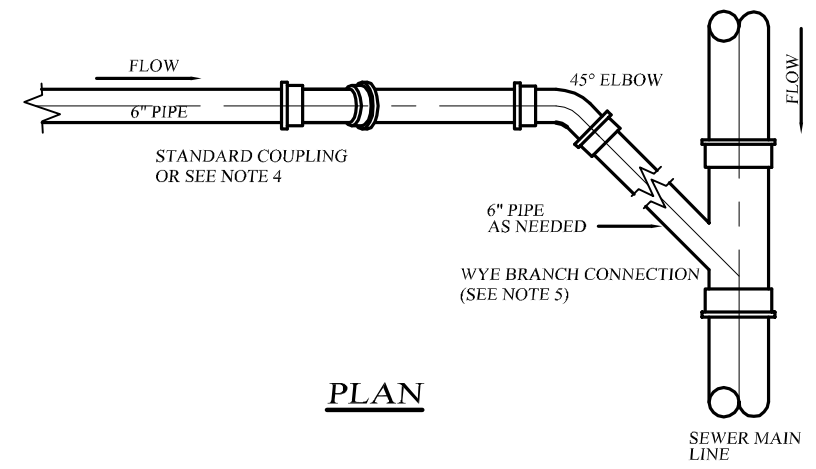
BUILDING SEWER CLEAN-OUT DETAIL
NOT TO SCALE



PIPE ZONE BEDDING MATERIAL:
1. WATER MAINS: SAND OR RUN-OF-BANK GRAVEL, AS APPROVED BY SOILS ENGINEER.
2. SEWER MAINS: 1/4" CHRUSHED STONE.

PIPE ZONE BACKFILL MATERIAL:
1. WATER MAINS: ON-SITE MATERIAL FREE OF STONE, CLAY FOREIGN MATERIAL OR FROZEN EARTH AS APPROVED BY SOILS ENGINEER.
2. SEWER MAINS: 1/4" CHRUSHED STONE.

PIPE BEDDING AND BACKFILL DETAIL
NOT TO SCALE

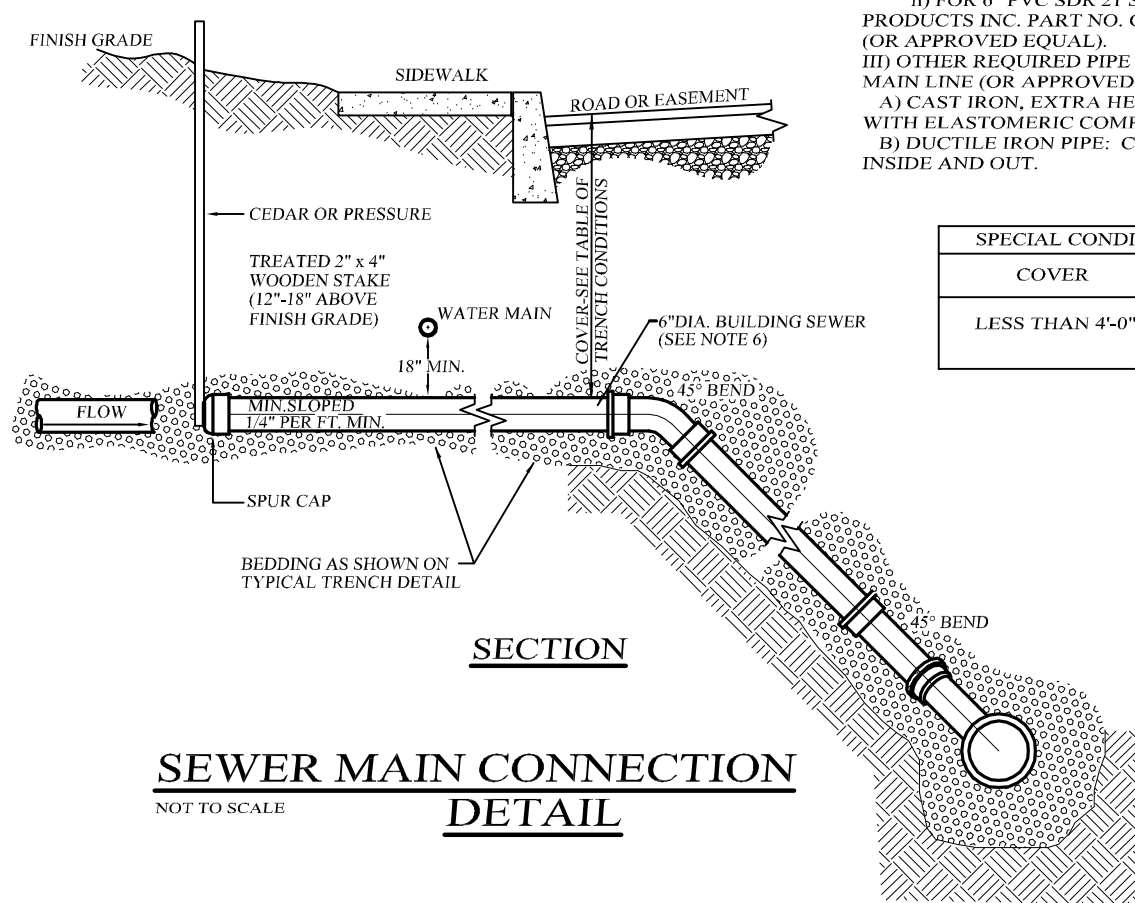


PLAN

*SANITARY SEWER SPECIFICATIONS (FOR BUILDING SEWERS AND SEWER MAIN LINE)

- 1) REQUIRED MAIN LINE SEWER (OR APPROVED EQUAL):
 - A) AIRS-TRUSS PIPE:
 - D) PIPE: STAMPED ASTM D2680.
 - E) FITTINGS: STAMPED ASTM D2680.
 - F) JOINTS: SOLVENT WELD, ASTM D2235.
 - B) PVC-TRUSS PIPE:
 - D) PIPE: STAMPED ASTM D2680.
 - E) FITTINGS: STAMPED ASTM D2680.
 - F) JOINTS: SOLVENT WELD, ASTM D2564 OR ELASTOMERIC (GASKET).
 - C) PVC-SDR 26 HEAVY WALL PIPE:
 - D) PIPE: 8" (8" DIAMETER); STAMPED ASTM 3034.
 - E) PIPE (18" AND GREATER DIAMETER); STAMPED ASTM F679.
 - F) FITTINGS: STAMPED ASTM 3034 OR F679.
 - G) JOINTS: SOLVENT WELD ASTM 2564 OR ELASTOMERIC (GASKET).
 - H) PIPE (8"-12" DIAMETER); STAMPED ASTM 2241.
 - I) FITTINGS: 1-P.S. SCHEDULE 80 (MINIMUM) MEETING ASTM D2467 AND D1784.
 - J) JOINTS: ASTM D3139. SOLVENT WELD ASTM 2564 AND D2855. ELASTOMERIC (GASKET) ASTM 1447.
- 2) REQUIRED 6" BUILDING LATERAL SEWER (OR APPROVED EQUAL):
 - A) SDR 23.5 AIRS SOLID WALL PIPE:
 - D) PIPE: STAMPED ASTM D2751 AND SDR 23.5.
 - E) FITTINGS: STAMPED SDR 23.5 ASTM D2751.
 - F) JOINTS: SOLVENT WELD, ASTM D2235.
 - B) PVC-SDR 21 LP.S. (IRON PIPE SIZE) SOLID WALL PIPE:
 - D) PIPE: 6" STAMPED ASTM 2241.
 - E) FITTINGS: 1-P.S. SCHEDULE 40 (MINIMUM) MEETING ASTM D2665 AND D1784.
 - F) JOINTS: ASTM D3139. SOLVENT WELD ASTM 2564 AND D2855. ELASTOMERIC (GASKET) ASST. 1447.
 - C) TRANSITION BETWEEN SDR 23.5 AND SDR 21 LP.S. IS PERMISSIBLE VIA STYLE 253 LONG SLEEVE CAST COUPLING MODEL NO. 0253-0663-0666 AS MANUFACTURED BY DRESSER PIPING SPECIALTIES (OR APPROVED EQUAL).
 - D) TRANSITION AT 6" ASTM 3034 BUILDING LATERAL SEWER HUB LOCATED ON PVC SDR 26 HEAVY WALL SEWER PIPE BRANCH WYE FITTING VIA GPK PRODUCTS, INC. ADAPTERS ARE APPROVED AS FOLLOWS:
 - i) FOR 6" PVC SDR 21 GASKETED SEWER PIPE USE GPK PRODUCTS, INC. PART NO. 6330-00-67 1-P.S.G. S SEWER SPOGOT ADAPTER (OR APPROVED EQUAL).
 - ii) FOR 6" PVC SDR 21 SOLVENT WELD PVC SEWER PIPE USE GPK PRODUCTS, INC. PART NO. 6230-0066-67 1-P.S. HUB S SPOGOT ADAPTER (OR APPROVED EQUAL).
 - E) OTHER REQUIRED PIPE MATERIALS FOR 6" LATERAL AND SEWER MAIN LINE (OR APPROVED EQUAL).
- 3) CAST IRON, EXTRA HEAVY, COATED, HUB & FLAN END, ASTM C-74 WITH ELASTOMERIC COMPRESSION GASKET (ASTM C-264).
B) DUCTILE IRON PIPE: CLASS S2, CEMENT LINED AND TAR COATED INSIDE AND OUT.

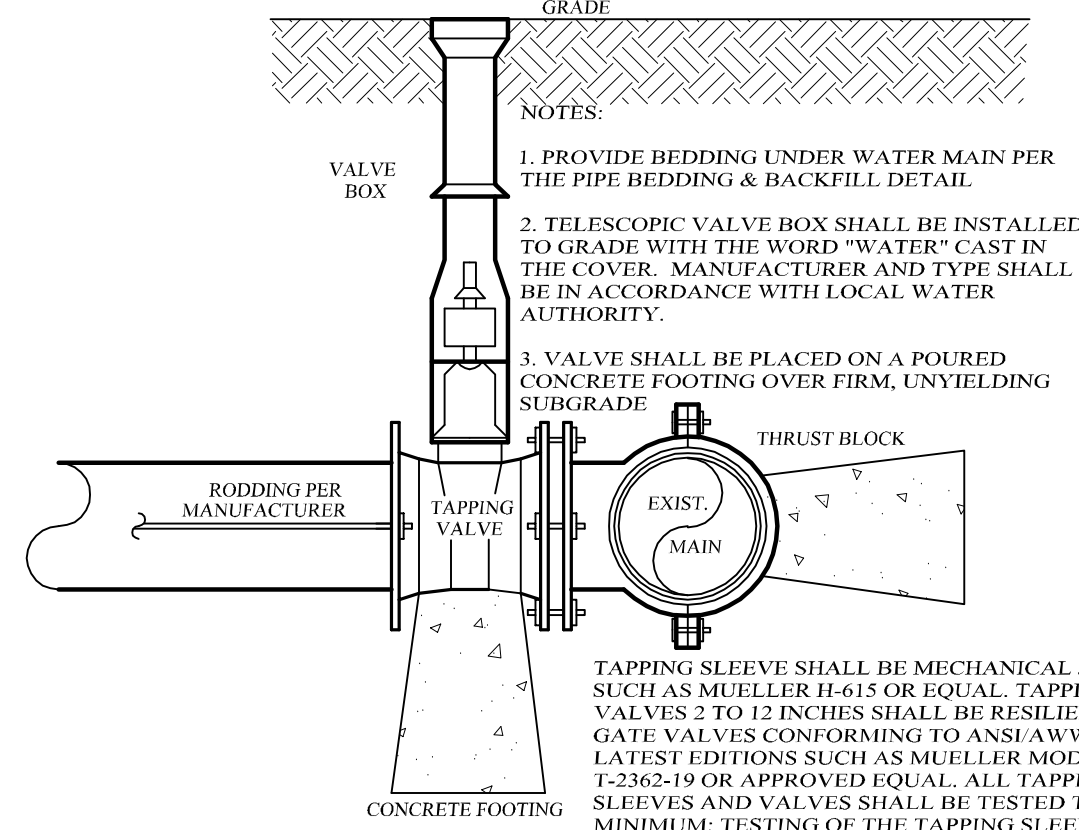
- NOTES:
1. ALL APPROVED BUILDING SEWER PIPE MATERIAL FOR EACH CONNECTION MADE SHALL BE CONSTRUCTED FROM THE SAME MATERIAL.
 2. MINIMUM HORIZONTAL SEPARATION BETWEEN SPUR CAP AND SIDEWALK SHALL BE 2'-0". IN ALL CASES THE SPUR CAP LOCATION SHALL EXTEND A MINIMUM HORIZONTAL DISTANCE OF 2'-0" ONTO ALL BUILDING LOT PROPERTIES.
 3. TRANSITION BETWEEN DIFFERENT PIPE MATERIAL (AS APPROVED) SHALL BE MADE BY INSTALLING A TYPE 1, STYLE 62 DRESSER COUPLING OR DRESSER STYLE 262 DYNAMAX COUPLING (OR APPROVED EQUAL).
 4. WYE BRANCH CONNECTION SHALL BE A FITTING CONSTRUCTED SPECIFICALLY FOR THE INSTALLED MAIN LINE SEWER MATERIAL CLASS (OR APPROVED EQUAL).
 5. THE BUILDING SEWER SHOWN FROM THE MAIN LINE SOURCE WYE BRANCH CONNECTION FITTING TO THE SPUR CAP SHALL MEET THE SPECIFICATIONS SHOWN FOR (B) SEWER SERVICE LATERALS.



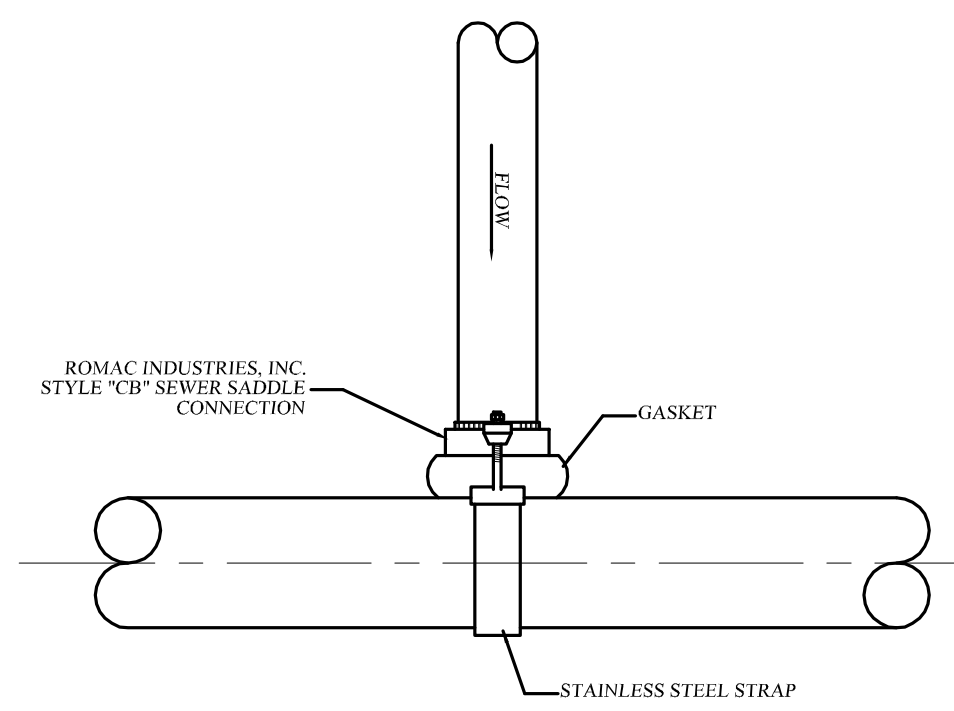
SECTION

SEWER MAIN CONNECTION DETAIL
NOT TO SCALE

SPECIAL CONDITIONS FOR SHALLOW TRENCH	
COVER	PIPE
LESS THAN 4'-0"	CLASS S2 DUCTILE IRON OR CAST IRON EXTRA HEAVY OR APPROVED EQUAL.



WATER MAIN TAPPING VALVE DETAIL
NOT TO SCALE



- NOTES:
1. ALL APPROVED BUILDING SEWER PIPE MATERIAL FOR EACH CONNECTION MADE SHALL BE CONSTRUCTED FROM THE SAME MATERIAL.
 2. SADDLE CONNECTION TO BE STYLE "CB" SEWER SADDLE AS MANUFACTURED BY ROMAC INDUSTRIES, INC. OR APPROVED EQUAL.
 3. REFER TO DETAIL SPECIFICATIONS FOR STYLE "CB" SEWER SADDLE AS PROVIDED BY ROMAC INDUSTRIES, INC. FOR INSTALLATION GUIDELINES.
 4. INSTALLATION AND MATERIALS OF THE SADDLE CONNECTION TO CONFORM WITH O.C.S.D. NO. 1 CRITERIA. THERE WILL BE NO DEVIATION FROM THE APPROVED PLAN WITHOUT WRITTEN APPROVAL FROM THE VILLAGE DPW.

SADDLE CONNECTION DETAIL
NOT TO SCALE

Lands of
31 MERRIEWOLD LANE SOUTH
VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

PROJECT TITLE

SANITARY DETAILS

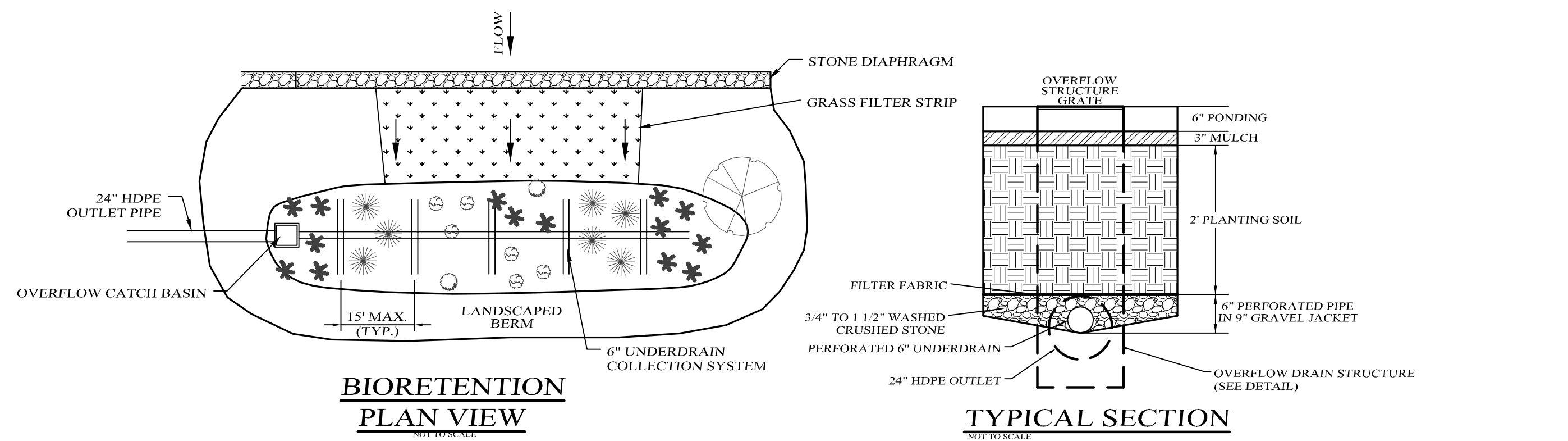
DRAWING TITLE

KIRK ROTHER, P.E.
CONSULTING ENGINEER, PLLC
5 St. Stephens Lane, Warwick, NY 10990
(845) 938-0620

03-22-22 INITIAL PREPARATION

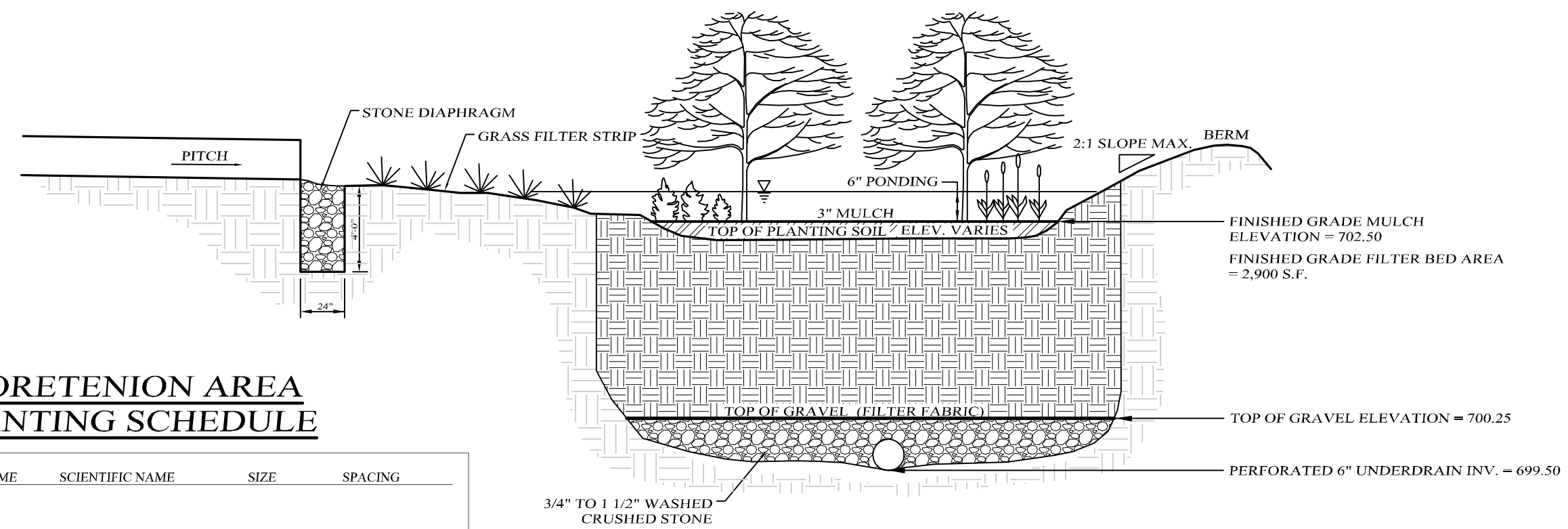
D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	7 OF 8
CAD #	PROJECT #	SCALE	
20129 SP	20129.0	AS SHOWN	

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. REPRODUCTIONS OF THIS PLAN WHICH DO NOT BEAR THE ORIGINAL SEAL OF A LICENSED PROFESSIONAL ENGINEER SHALL BE CONSIDERED INVALID.



**BIORETENTION
PLAN VIEW**
NOT TO SCALE

TYPICAL SECTION
NOT TO SCALE



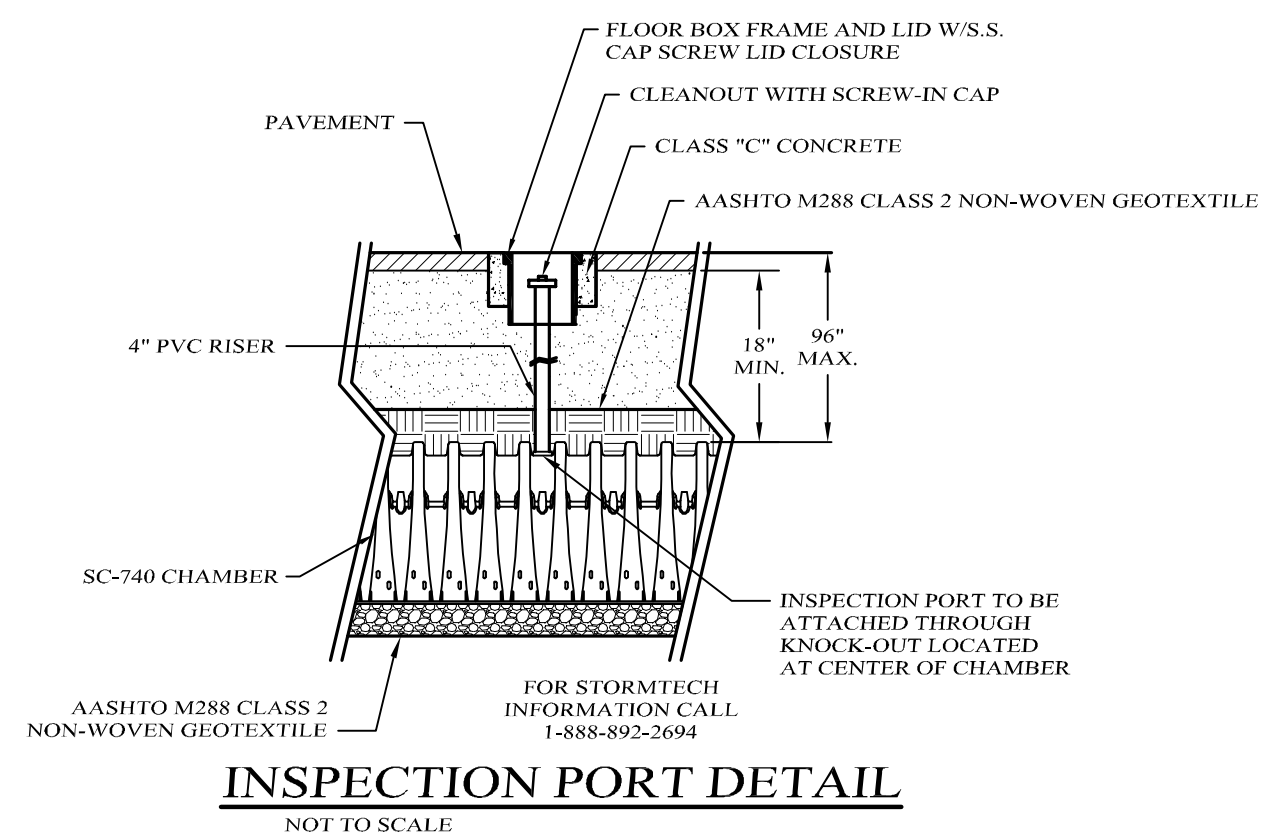
BIORETENTION PROFILE
NOT TO SCALE

**BIORETENTION AREA
PLANTING SCHEDULE**

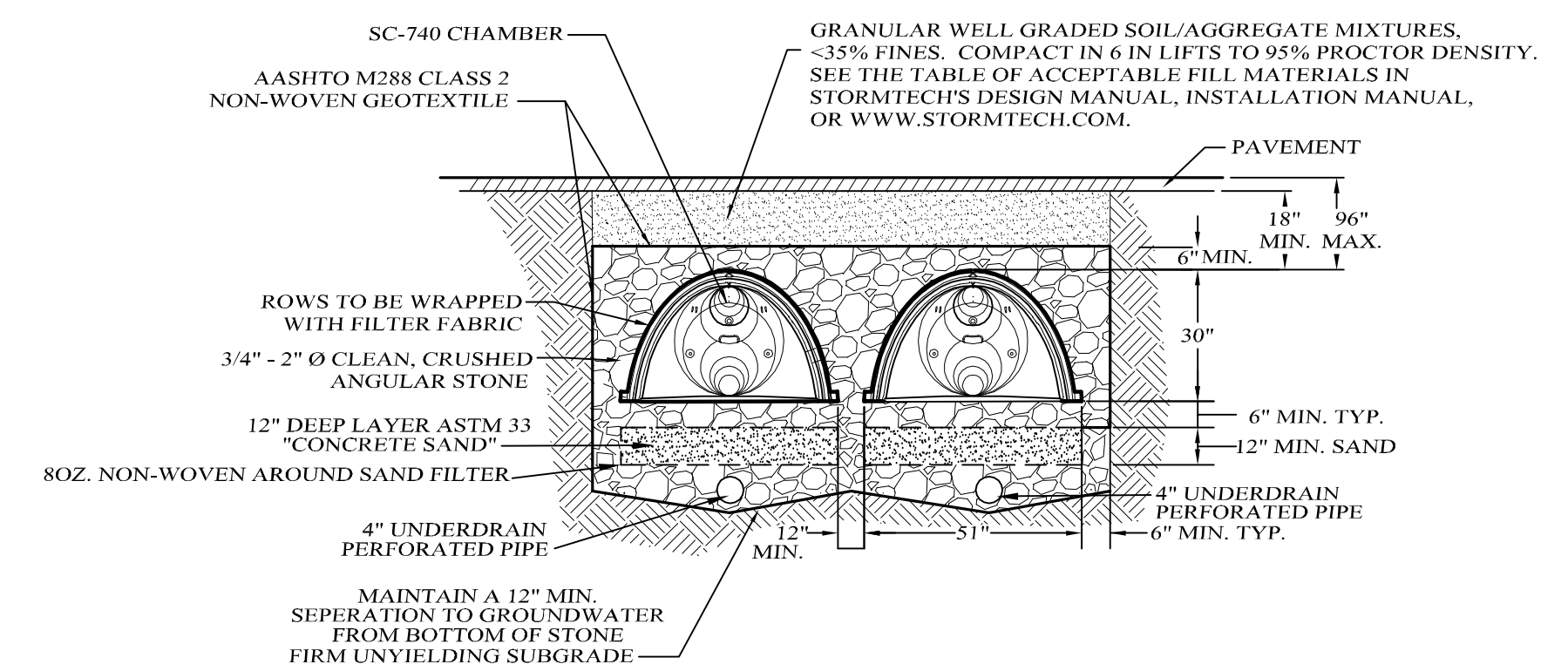
SYMBOL	PLANT NAME	SCIENTIFIC NAME	SIZE	SPACING
	Red Maple	Acer rubrum	B & B 2-1/2" TO 3" CALIPER	15' O.C.
	Tapelo	Nyssa sylvatica vari	B & B 5' - 6' IN HEIGHT	10' O.C.
	Red-Osier Dogwood	Cornus stolonifera	2 GAL.	4' O.C.
	Sweet Pepperbush	Clethra alnifolia	2 GAL.	6' O.C.
	Fox Sedge	Carex vulpinoidea	2 GAL.	2' O.C.
	MULCH		6" High	

NOTES:

- A DENSE AND VIGOROUS VEGETATIVE COVER SHALL BE ESTABLISHED OVER THE CONTRIBUTING PERVIOUS DRAINAGE AREAS BEFORE RUNOFF CAN BE ACCEPTED.
- LANDSCAPING SHALL FOLLOW THE APPROVED PLANS OR A PLAN MUST BE PROVIDED BY A LANDSCAPE ARCHITECT FOR ALL BIORETENTION AREAS.
- PLANT MATERIALS SHOULD CONFORM TO THE AMERICAN STANDARD NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, AND SHOULD BE SELECTED FROM CERTIFIED, REPUTABLE NURSERIES.
- SILT/SEDIMENT SHALL BE REMOVED FROM THE FILTER BED WHEN ACCUMULATION EXCEEDS ONE INCH.
- WHEN WATER PONDS ON THE SURFACE OF THE FILTER BED FOR MORE THAN 48 HOURS THE TOP FEW INCHES OF DISCOLORED MATERIAL SHALL BE REMOVED IN AN ACCEPTABLE MANNER (i.e., LANDFILL) AND REPLACED WITH FRESH MATERIAL.
- AREAS DEVOID OF MULCH SHALL BE RE-MULCHED ANNUALLY.
- DEAD OR DISEASED PLANTS SHALL BE REMOVED AND REPLACED AS NECESSARY.
- GRASS AROUND BIORETENTION AREA SHALL BE MOWED A MINIMUM OF 3 TIMES PER YEAR TO MAINTAIN MAX. GRASS HEIGHT OF 12".
- FILTERBED AREA SHALL BE INSPECTED FOR SAND BUILD-UP FOLLOWING THE SPRING MELT EVENT.
- THE MULCH LAYER SHOULD BE STANDARD LANDSCAPE STYLE, SINGLE OR DOUBLE, SHREDDED HARDWOOD MULCH OR CHIPS. THE MULCH LAYER SHOULD BE WELL AGED (STOCKPILED OR STORED FOR AT LEAST 12 MONTHS), UNIFORM IN COLOR, AND FREE OF OTHER MATERIALS, SUCH AS WEED SEEDS, SOIL, ROOTS, ETC. THE MULCH SHOULD BE APPLIED TO A MAXIMUM DEPTH OF THREE INCHES. GRASS CLIPPINGS SHOULD NOT BE USED AS A MULCH MATERIAL.



INSPECTION PORT DETAIL
NOT TO SCALE

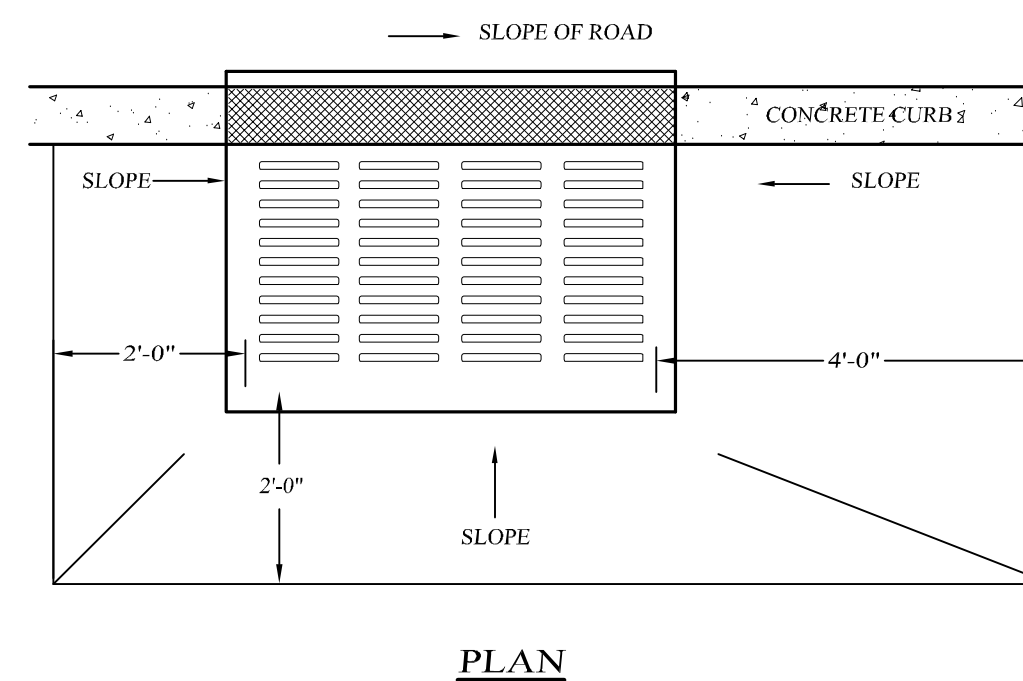


TYPICAL SECTION

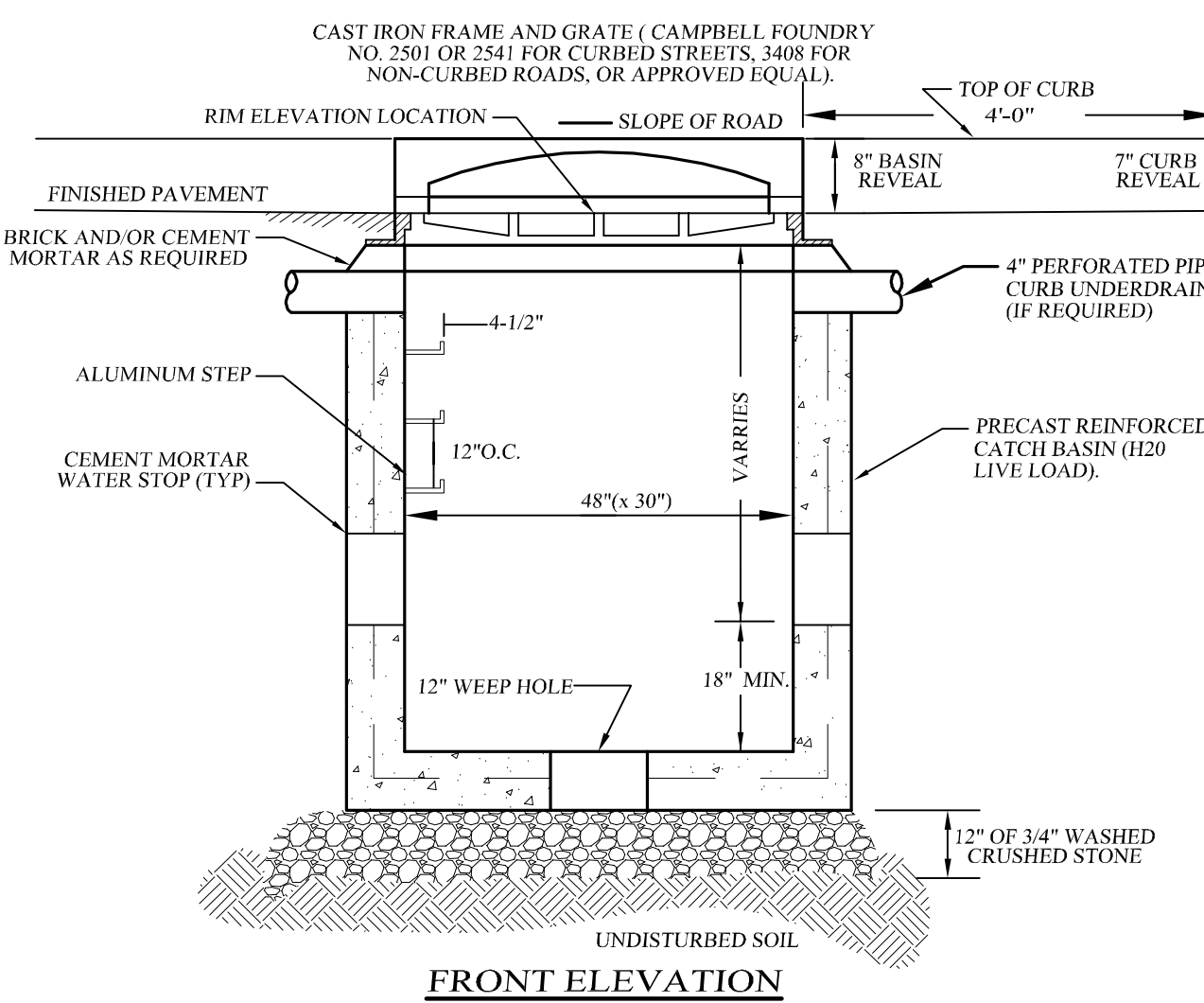
NOTES:

- REFER TO STORMTECH'S DESIGN MANUAL AND INSTALLATION MANUAL FOR DETAILED INSTALLATION INSTRUCTIONS.
- CHAMBERS SHALL BE INSTALLED AT 0.00% SLOPE AND END CAPPED.
- STONE SHALL BE 3/4" TO 2" DIAMETER CLEAN, CRUSHED STONE.

**STORMTECH SC - 740
SUBSURFACE STORMWATER MANAGEMENT CHAMBERS
DETAIL**
NOT TO SCALE



PLAN



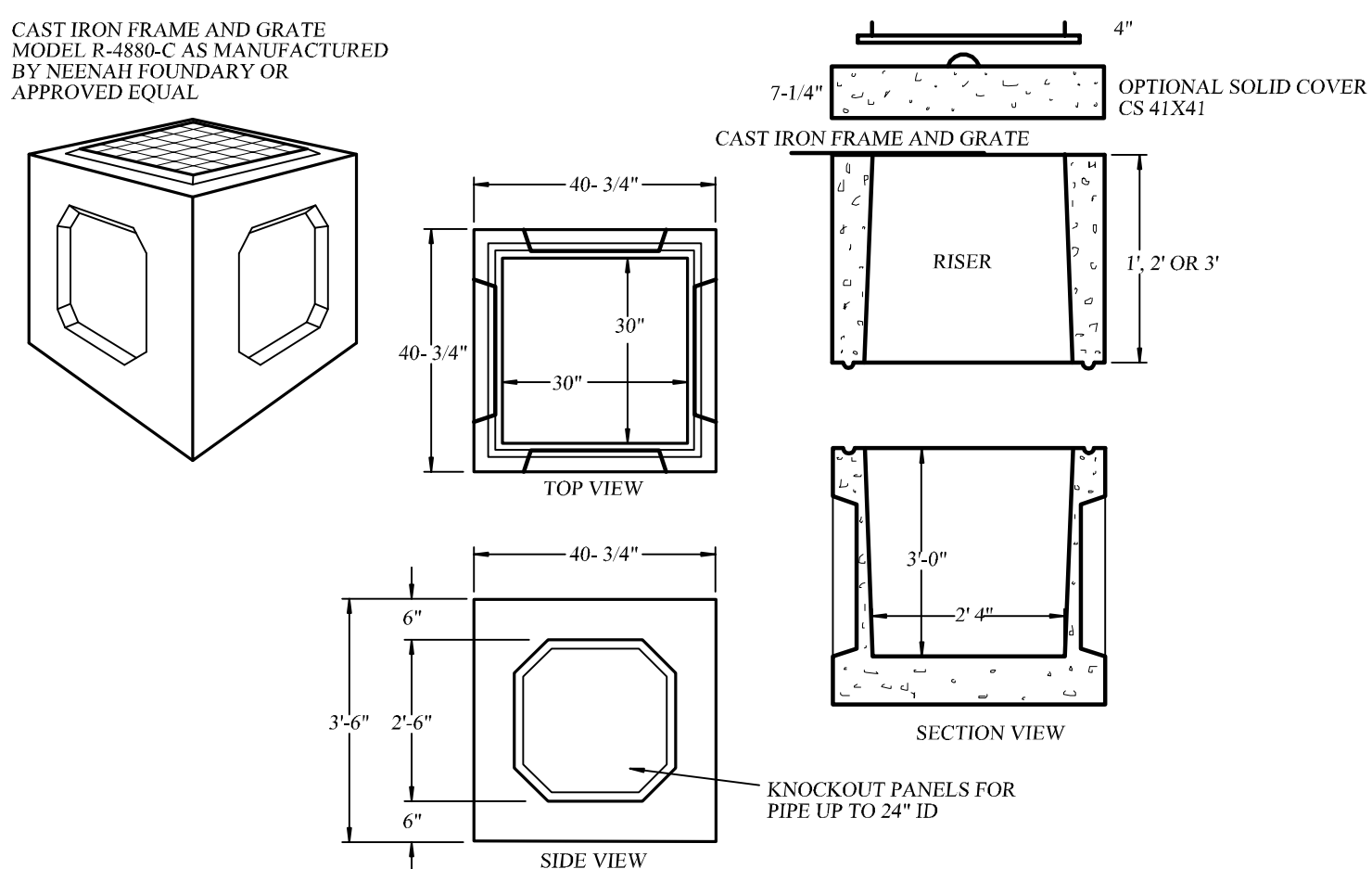
FRONT ELEVATION

NOTES:

- BACKFILL AROUND CATCH BASIN TO BE COMPACTED IN MAX. 8" LIFTS.
- THE ENDS OF ALL PIPES SHALL BE CUT OFF FLUSH WITH THE INSIDE SURFACE OF CATCH BASIN AND ADEQUATELY MORTARED.
- PRECAST CONCRETE TO BE 4000 PSI @ 28 DAYS

PRECAST CONCRETE CURB INLET DETAIL
NOT TO SCALE

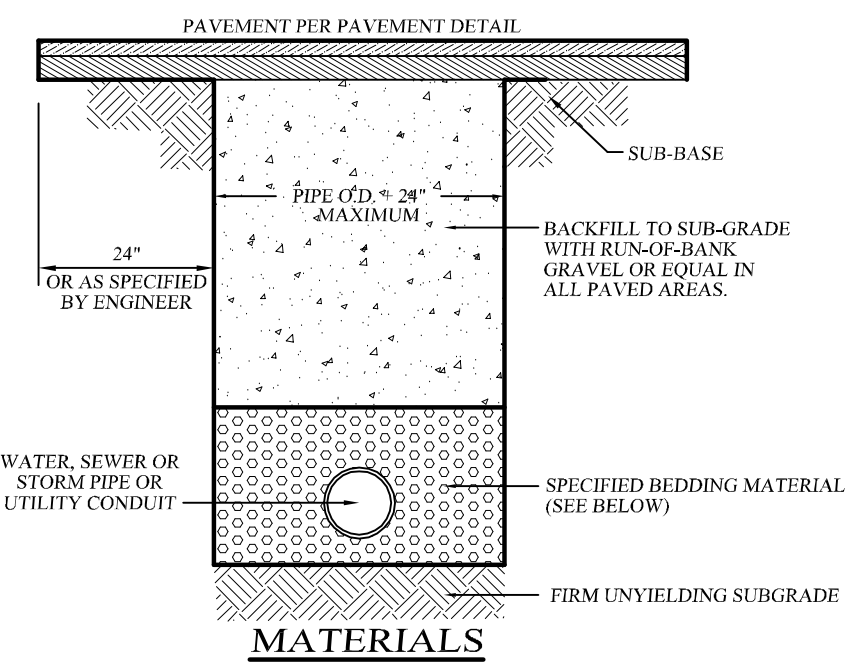
CAST IRON FRAME AND GRATE MODEL R-1880-C AS MANUFACTURED BY NEENAH FOUNDRY OR APPROVED EQUAL



NOTES:

- BACKFILL AROUND CATCH BASIN TO BE COMPACTED IN MAX. 8" LIFTS.
- THE ENDS OF ALL PIPES SHALL BE CUT OFF FLUSH WITH THE INSIDE SURFACE OF CATCH BASIN AND ADEQUATELY MORTARED.
- PRECAST CONCRETE TO BE 4000 PSI @ 28 DAYS

PRECAST CONCRETE FIELD INLET DETAIL
NOT TO SCALE



MATERIALS

- PIPE ZONE BEDDING MATERIAL: 1. WATER MAINS: SAND OR RUN-OF-BANK GRAVEL, AS APPROVED BY SOILS ENGINEER. 2. WASTEWATER MAINS: SAND OR RUN-OF-BANK GRAVEL, AS APPROVED BY SOILS ENGINEER.
- PIPE ZONE BACKFILL MATERIAL: 1. WATER MAINS: ON-SITE MATERIAL FREE OF STONE, CLAY FOREIGN MATERIAL OR FROZEN EARTH AS APPROVED BY SOILS ENGINEER. 2. WASTEWATER MAINS: ON-SITE MATERIAL FREE OF STONE, CLAY FOREIGN MATERIAL OR FROZEN EARTH AS APPROVED BY SOILS ENGINEER.

**PIPE BEDDING AND BACKFILL
DETAIL**
NOT TO SCALE

Lands of
**31 MERRIEWOLD
LANE SOUTH**
VILLAGE OF SOUTH BLOOMING GROVE,
ORANGE COUNTY, NEW YORK

**DRAINAGE
DETAILS**

KIRK ROTHER, P.E.
CONSULTING ENGINEER, PLLC
5 St. Stephens Lane, Warwick, NY 10990
(845) 968-0020

PROJECT TITLE
DRAWING TITLE

03-22-22 INITIAL PREPARATION

D.O.T. SHEET #	D.E.C. SHEET #	O.C.H.D. SHEET #	SHEET #
N.A.	N.A.	N.A.	8 OF 8
CAD #	PROJECT #	SCALE	
20129 SP	20129.0	AS SHOWN	