



NEW YORK STATE LOCATION MAP
 APPROXIMATE SCALE: 1" = 57 MILES



BREEN AVENUE RESIDENCE

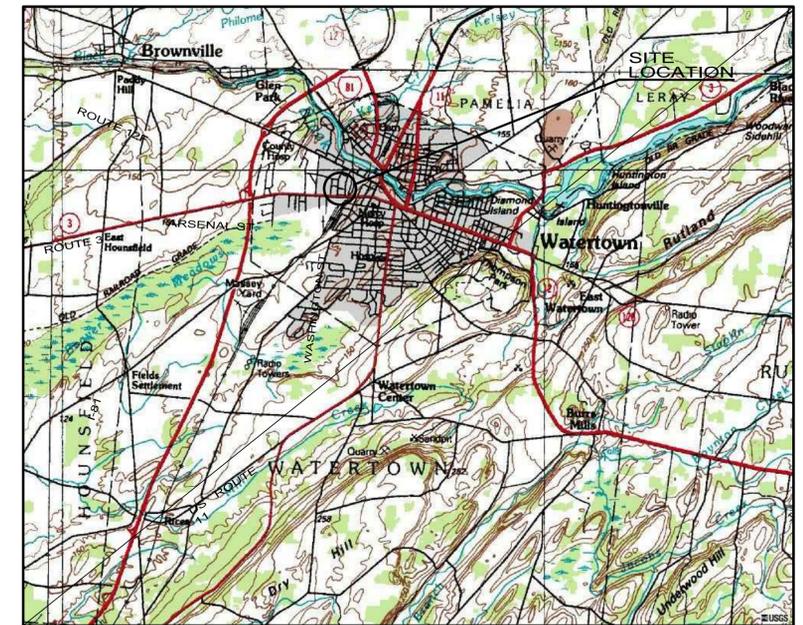
CITY OF WATERTOWN, JEFFERSON COUNTY,
 NEW YORK

SITE DEVELOPMENT PLANS

22 NOVEMBER 2011

INDEX OF DRAWINGS:

- C101 - SITE DEVELOPMENT PLAN
- C501 - GENERAL INFORMATION AND SITE DETAILS
- C502 - SITE AND UTILITY DETAILS
- C503 - STORM WATER DETAILS



LOCATION MAP
 APPROXIMATE SCALE 1" = 2,000'

FOR APPROVALS ONLY
 NOT FOR CONSTRUCTION

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ABBREVIATIONS

- AC - ACRES
- BLDG - BUILDING
- BOT - BOTTOM
- BW - BOTTOM OF WALL
- C - CURVE
- CB - CATCH BASIN
- CF - CUBIC FEET
- CI - CAST IRON
- CL - CENTERLINE
- CO - CLEAN OUT
- CONC - CONCRETE
- CMP - CORRUGATED METAL PIPE
- CPP - CORRUGATED PLASTIC PIPE
- DA - DELTA ANGLE
- DA# - DRAINAGE AREA #
- DEMOED - ITEM REMOVED OR DEMOLISHED
- DI - DUCTILE IRON
- DIA - DIAMETER
- DWG - DRAWING
- E - EAST
- EO - EXISTING GRADE
- EL - ELEVATION
- ESC - EROSION & SEDIMENT CONTROL
- FF - FINISHED FLOOR
- FG - FINISH GRADE
- GV - GATE VALVE
- HDPE - HIGH DENSITY POLYETHYLENE PIPE
- HYD - HYDRANT
- IPF - IRON PIPE FOUND
- IPS - IRON PIPE SET
- INT - INTERSECTION
- INV - INVERT
- L - LENGTH
- LF - LINEAR FEET
- MAX - MAXIMUM
- MIN - MINIMUM
- N - NORTH
- NO./# - NUMBER
- NTS - NOT TO SCALE
- NYSDEC - NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
- NYSDOT - NEW YORK STATE DEPARTMENT OF TRANSPORTATION
- NYSDOH - NEW YORK STATE DEPARTMENT OF HEALTH
- OHW - OVERHEAD WIRE
- PC - POINT OF CURVATURE
- PCC - POINT OF COMPOUND CURVE
- PT - POINT OF TANGENCY
- PVC - POLYVINYL CHLORIDE PIPE
- R - RADIUS
- RCP - REINFORCED CONCRETE PIPE
- ROC - RUN OF CRUISER
- ROW - RIGHT-OF-WAY
- S - SOUTH
- SAN - SANITARY
- SDR - STANDARD DIMENSION RATIO
- SMNH - SANITARY MANHOLE
- SMH - STORM MANHOLE
- SWPPP - STORM WATER POLLUTION PREVENTION PLAN
- TC - TIME OF CONCENTRATION
- TL - TANGENT LENGTH
- TYP - TYPICAL
- TW - TOP OF WALL
- TS & V - TAPPING SLEEVE & VALVE
- UNO - UNLESS NOTED OTHERWISE
- W - WEST

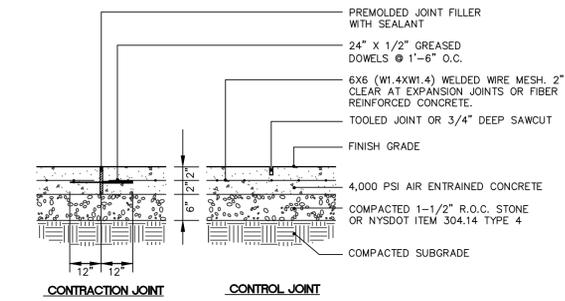
SIGN SCHEDULE

LABEL	SIGNS	LABEL	SIGNS
A		B	

SIGNAGE NOTES

- ALL OUTSIDE SIGNS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH ALL DETAILS WITHIN THE STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION - METRIC STANDARD SHEETS M645-20 THROUGH M645-80. THIS INCLUDES BUT IS NOT LIMITED TO: STANDARD SIGN BLANK DETAILS (M645-50 THROUGH M645-52); STANDARD HEIGHT AND LATERAL LOCATION FOR TRAFFIC SIGNS, TYPICAL REGULATION & WARNING SIGNS ASSEMBLED (M645-55); SIGN PANEL DETAILS FOR GUIDE, INFORMATION AND OTHER SIGNS (M645-70); BI- DIRECTIONAL BREAKAWAY BASE AND HINGE ASSEMBLY (M645-72).
- ALL SIGNS AND PAINT MARKINGS ARE TO BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS AS OUTLINED IN THE LATEST VERSION OF THE FEDERAL MUTCD AND THE NYS SUPPLEMENT.

- UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN. PRIOR TO CONSTRUCTION CONTACT UNDERGROUND UTILITIES CALL CENTER OF NEW YORK FOR EXACT LOCATION OF ALL UNDERGROUND UTILITIES. (1-800-962-7962). CONTRACTOR IS RESPONSIBLE FOR LOCATING AND WORKING WITH THE APPROPRIATE UTILITY COMPANIES PRIOR TO CONSTRUCTION.
- THE TOPOGRAPHIC SURVEY WAS PERFORMED BY GYMO, PC DURING JANUARY AND FEBRUARY 2011.
- ALL OUT-OF-SCOPE AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS WILL BE RESTORED TO CONDITIONS EQUAL TO OR BETTER THAN THAT PRIOR TO CONSTRUCTION. OUTSIDE OF PROPERTY BOUNDARIES AND EASEMENT AREAS THE CONTRACTOR IS REMINDED TO OBTAIN WRITTEN AUTHORIZATION TO USE PRIVATE PROPERTY AND ASSUMES ALL LIABILITY WHEN ACCESSING THOSE PROPERTIES.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE CHARACTERISTICS AND EXTENT OF SUBSURFACE SOILS, ROCK, WATER TABLE LEVELS, ETC., PRIOR TO BIDDING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS, SECURITY, BONDS, FEES, AND PAYMENTS TO OBTAIN SAID PERMITS WHERE APPLICABLE.
- WHEN THE PERFORMANCE OF THE CONTRACTOR'S WORK REQUIRES THE INTERRUPTION OF UTILITY SERVICES, HE/SHE SHALL ISSUE A 48 HOUR PRIOR NOTICE TO THE GOVERNING MUNICIPALITY.
- SITE CONTRACTOR TO PROVIDE EROSION AND SEDIMENT CONTROL AND DUST CONTROL.
- A LICENSED LAND SURVEYOR SHALL BE RETAINED FOR ALL UTILITY AND FIELD STAKEOUT AND AS-BUILTS AT THE CONTRACTORS EXPENSE.
- CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES THROUGHOUT CONSTRUCTION UNTIL ESTABLISHMENT OF VEGETATIVE COVER. RUN-OFF CONTAINING SEDIMENTS FROM DISTURBED AREAS OF THE SITE SHALL NOT BE ALLOWED DIRECTLY OFF SITE OR INTO NATURAL STREAM CHANNELS.
- ALL EXISTING TREES TO REMAIN SHALL BE PROTECTED BY THE CONTRACTOR. CONSTRUCTION ACTIVITIES ADJACENT TO TREES SHALL BE CONDUCTED TO REDUCE THE IMPACT TO TREES TO THE MAXIMUM EXTENT PRACTICAL. ANY DAMAGE TO EXISTING TREES SHALL BE REPAIRED OR THE TREE REPLACED, AS DIRECTED BY THE OWNER AT THE CONTRACTORS EXPENSE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARING, GRUBBING, CUTTING AND DISPOSING OF VEGETATION, TREES AND DEBRIS IN A NYSDEC ACCEPTABLE LOCATION.
- CONTRACTOR SHALL PERFORM ALL NECESSARY EARTHWORK, INCLUDING THE STRIPPING, STOCKPILING AND REPLACING OF TOPSOIL IN ACCORDANCE WITH THE PLANS. EXCESS MATERIAL SHALL BE REMOVED FROM THE SITE.
- EXCAVATIONS SHALL BE TO DEPTHS SHOWN ON DRAWINGS. ALL UNSTABLE OR UNSUITABLE MATERIAL SHALL BE EXCAVATED AND REMOVED TO SUCH DEPTH AS REQUIRED TO PROVIDE SUFFICIENT BEARING CAPACITY. OVER-EXCAVATED AREAS SHALL BE BACKFILLED WITH SUITABLE MATERIAL.
- COMPACTION OF PIPE BEDDING AND BACKFILL MATERIAL SHALL BE BY MEANS OF HAND-GUIDED POWER DRIVEN, DRUM-TYPE, OR PLATE TAMPERS. BACKFILLING SHOULD PROCEED IN ACCORDANCE WITH LIFT THICKNESSES AND COMPACTION REQUIREMENTS AS SHOWN ON THE DRAWINGS. UNLESS OTHERWISE NOTED ON THE DRAWINGS, COMPACTION REQUIREMENTS REFER TO PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D698, STANDARD PROCTOR. CARE SHALL BE TAKEN TO SHAPE PIPE BEDDING TO FIT THE LOWER PART OF THE PIPE. BACKFILLING AND COMPACTION SHOULD PROGRESS EVENLY ALONG THE PIPE SIDEWALLS AND TO THE TOP OF THE PIPE BEDDING.
- COMPACTION SHALL BE 90% MAXIMUM DRY DENSITY IN GRASS AREAS, 95% MAXIMUM DRY DENSITY IN GRAVEL/PAVED AREAS AND 98% MAXIMUM DRY DENSITY UNDER AND AROUND STRUCTURES. MAXIMUM DRY DENSITY SHALL BE AS DETERMINED BY ASTM D698, STANDARD PROCTOR. THE CONTRACTOR SHALL HIRE AN INDEPENDENT TESTING AGENCY TO PERFORM PAVEMENT TESTING PER TECHNICAL SPECIFICATIONS AND PROVIDE THE RESULTS TO THE OWNER AND CITY FOR REVIEW PRIOR TO FINAL PAYMENT.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES OF DIMENSIONS, ELEVATIONS AND LOCATIONS DURING PRECONSTRUCTION FIELD VERIFICATION. SUCH INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR VERIFICATION OR MODIFICATION OF THE PLANS.
- WITHIN 20 DAYS AFTER THE COMPLETION OF THE BUILDING PAD AND PAVEMENT SUBGRADE BY CONTRACTOR, THE CONTRACTOR SHALL DELIVER TO THE OWNER, AN AS-BUILT SURVEY, SIGNED AND SEALED BY A LAND SURVEYOR OR ENGINEER LICENSED IN THE STATE OF NEW YORK. AS-BUILT RECORD DRAWINGS SHALL INCLUDE, AS A MINIMUM, THE FOLLOWING INFORMATION AS WELL AS ALL REQUIREMENTS OF THE SPECIFICATION:
 - RECORD OF ALL UTILITIES ENCOUNTERED IN TRENCH EXCAVATION. INFORMATION SHALL INCLUDE DIAMETER OF UTILITY, DEPTH OF BURIAL AND LOCATION WITH REFERENCE TO NEAREST STRUCTURE SHOWN ON DRAWINGS. THIS INFORMATION SHALL BE KEPT CURRENT ON A WEEKLY BASIS. FAILURE TO DO SO MAY RESULT IN WITHHOLDING OF PAYMENTS.
 - DISTANCE TIES TO ALL BENDS, VALVES, CORPORATION STOPS, WYES, MANHOLES, CLEAN OUTS, CATCH BASINS, ETC.
 - UTILITY REPAIRS, SIDEWALK, AND DRIVEWAY REPLACEMENTS CENTERLINE.
 - RM AND INVERT ELEVATIONS AND HORIZONTAL LOCATION OF MANHOLES, CATCH BASINS, AND CLEANOUTS.
 - STATIONS OF BENDS AND VALVES.
 - DENOTED BENCH MARK REFERENCES USED.
 - PERIODIC OFFSETS.
 - BUILDING PAD AND PAVEMENT SUBGRADE FINAL GRADES.
 - NOTATION FROM THE ENGINEER OR SURVEYOR THAT THE GRADES ARE IN CONFORMANCE WITH THE SITE PLANS.
 - RECORD DETAILS NOT SHOWN ON THE ORIGINAL CONTRACT DOCUMENTS. ANY FIELD CHANGES OF DIMENSIONS AND DETAILS AND ANY CHANGES MADE BY CHANGE ORDER OR FIELD ORDER.
 - CERTIFICATE OF SUBSTANTIAL COMPLETION SHALL NOT BE ISSUED UNTIL AS-BUILT INFORMATION IS ACCEPTABLE.
 - TWO (2) SETS OF FINAL COMPLETE RECORD DRAWINGS. CONTRACTOR SHALL FURNISH AS-BUILT DATA ON PLAN SHEETS.
- UPON COMPLETION OF STORM SEWER FACILITIES AND ESTABLISHMENT OF VEGETATION, THE NEW AND EXISTING STORM SYSTEMS RECEIVING RUNOFF FROM THIS SITE SHALL BE CLEANED OF DEBRIS. ONLY AT THIS TIME SHALL THE EROSION AND SEDIMENTATION CONTROL MEASURES BE REMOVED.
- CONTRACTOR SHALL PROVIDE SATISFACTORY DEWATERING AND DRAINAGE OF EXCAVATIONS. SEE DEWATERING AND DRAINAGE IN THE TECHNICAL SPECIFICATIONS FOR MORE DETAILED INFORMATION.
- ALL WATERMAIN WORK IS TO BE COORDINATED WITH THE CITY OF WATERTOWN WATER DEPARTMENT. WATER DEPARTMENT REQUIREMENTS WILL SUPERCEDE ALL OTHER PLANS AND SPECIFICATIONS.
- PERMITS: THE FOLLOWING PERMITS MUST BE OBTAINED FROM THE ENGINEERING DEPARTMENT BEFORE THE START OF SITE CONSTRUCTION:
 - SIDEWALK
 - SANITARY SEWER LATERAL
 - STORM SEWER
 - CURB CUT
 - PAVEMENT CUT
 - CITY PERMIT



- NOTES**
- CONTROL JOINTS TO BE SPACED 5' O.C. MAX., CONTRACTION JOINTS TO BE SPACED 20' O.C. MAX.
 - CROSS SLOPE IN SIDEWALK TO BE MIN. 1/4" PER FOOT.
 - WIDTH: PER SITE PLAN
 - SIDEWALKS WITHIN THE CITY OF WATERTOWN R.O.W. SHALL BE 5" THICK, 5000 PSI STRENGTH, EXCEPT 6" THICK ACROSS DRIVEWAYS

4	TYPICAL CONCRETE WALK SECTION	
C501	NOT TO SCALE	D154-01

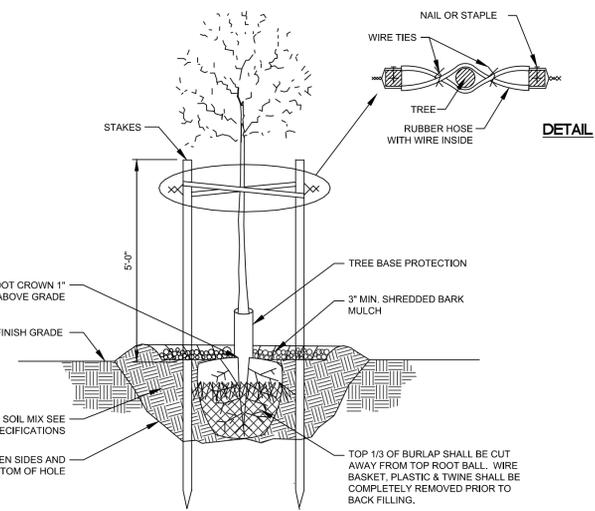
PLANTING SCHEDULE

COMMON NAME	ABBREV.	BOTANICAL NAME	SIZE	QUANTITY
TREES				
REDSPIRE PEAR	RP	PYRUS CALLERYANA 'REDSPIRE'	2" CAL.	6
TULIPTREE	TT	LIRIODENDRON TULIPIFERA	2" CAL.	2
COMMON HACKBERRY	CH	CELTIS OCCIDENTALIS	2" CAL.	6
SPRING SNOW CRABAPPLE	SC	MALUS 'SPRING SNOW'	1.75" CAL.	6
RED JADE WEEPING CRABAPPLE	RC	MALUS 'PINKSPIRE'	1.75" CAL.	1
SHRUBS				
WOODWARDARI ARBORVITAE	WA	THUJA ARBORVITAE OCCIDENTALIS 'WOODWARDI'	3 GAL.	5
LITTLE PRINCESS SPIREA	LS	SPIREA JAPONICA 'LITTLE PRINCESS'	3 GAL.	15
EMERALD GAITY EUONYMUS	EE	EUONYMUS FORTUNEI 'EMERALD GAITY'	2 GAL.	7

LANDSCAPING NOTES

- PLANT SPECIES WERE SELECTED TO GROW IN EXISTING SOIL CONDITIONS AND HARDINESS ZONES. PLANT SPECIES WERE ALSO CHOSEN ACCORDING TO GROWTH HABIT, SHAPE, SIZE, COLOR, FLOWER AND FALL COLOR. ANY SUBSTITUTIONS MUST BE REVIEWED BY THE LANDSCAPE ARCHITECT OR ARCHITECT.
- ALL PLANT MATERIAL SHALL BE THOROUGHLY WATERED BY THE CONTRACTOR AT THE TIME OF PLANTING.
- CONTRACTOR SHALL INSTALL WEED BARRIER FABRIC IN ALL LANDSCAPE BEDS.
- CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UNDERGROUND UTILITIES SHOWN ARE BASED ON RECORDS OF VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, FIELD MEASUREMENTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT UNDERGROUND UTILITIES CALL CENTER OF NEW YORK (1-800-962-7962) TO OBTAIN EXACT FIELD LOCATIONS OF ALL SUCH UTILITIES PRIOR TO START OF CONSTRUCTION.

- PLEASE NOTE THAT ANY CONTRACTOR WORKING WITHIN THE CITY OF WATERTOWN MUST PROVIDE A CURRENT CERTIFICATE OF LIABILITY INSURANCE (ACORD 25). IN ADDITION, NYS ALSO MANDATES PROOF OF WORKER'S COMPENSATION BE SHOWN PRIOR TO THE ENGINEERING DEPARTMENT ISSUING ANY PERMITS.
- A PERMIT MUST BE OBTAINED FROM THE CITY OF WATERTOWN WATER DEPARTMENT TO COVER ANY WORK OR MATERIALS TO BE PROVIDED BY THE WATER DEPARTMENT, INCLUDING BUT NOT LIMITED TO THE TAP AT THE MAIN AND COORDINATION WITH TYING INTO THE MAIN WITHIN THE PROJECT AREA.
- THE CITY OF WATERTOWN WATER DEPARTMENT MUST BE PRESENT TO ASSIST WITH FLUSHING OF MAINS, WITNESSING OF PRESSURE TESTING, AND PERFORMING THE DISINFECTION. THE COST OF WORK PERFORMED BY THE WATER DEPARTMENT WILL BE PAID FOR BY THE CONTRACTOR UPON THE CITY PRESENTING AN INVOICE FOR SUCH WORK.
- THERE SHALL BE NO DEVIATION FROM THE SPECIFICATIONS FOR WATER MAIN AND SERVICE MATERIALS AND CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE PLACING OF A MINIMUM OF THREE BRONZE WEDGES AT EACH PUSH-ON JOINT FOR CONTINUITY, PROPER BACKFILL PLACEMENT AND PROPER PLACEMENT AND SIZING OF THRUST BLOCKS. ALL PIPE AND MATERIALS MUST BE MADE IN NORTH AMERICA, UNLESS OTHERWISE APPROVED, AND SHOP DRAWINGS OR CUT SHEETS FOR PIPE AND MATERIAL MUST BE APPROVED BY THE WATER DEPARTMENT.
- ALL WORK TO BE PERFORMED WITHIN THE CITY OF WATERTOWN MARGIN WILL REQUIRE SIGN-OFF FROM A PROFESSIONAL ENGINEER, LICENSED AND CURRENTLY REGISTERED TO PRACTICE IN THE STATE OF NEW YORK, THAT THE WORK WAS BUILT ACCORDING TO THE APPROVED SITE PLAN AND APPLICABLE CITY OF WATERTOWN STANDARDS. COMPACTION TESTING WILL BE REQUIRED FOR ALL WORK TO BE PERFORMED WITHIN THE CITY OF WATERTOWN MARGIN AND MUST BE SUBMITTED TO THE CITY OF WATERTOWN CODES DEPARTMENT.
- CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN ACCORDANCE WITH PREPARED NYSDEC ACCEPTABLE PRACTICES AND CONTRACTOR SHALL PROVIDE APPROPRIATE TRAFFIC CONTROL MEASURES. (FLAGGERS, SIGNS, ETC.) ALONG BREEN AVENUE.
- EXCAVATIONS AND TRENCHING SHALL BE PERFORMED IN ACCORDANCE WITH STATE OF NEW YORK INDUSTRIAL CODE, RULE 23, O.S.H.A. TITLE 29, PART 1926, NEW YORK STATE DEPARTMENT OF LABOR, TITLE 12, PART 23, AND ALL OTHER APPLICABLE SAFETY STANDARDS AND CODES.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE AWARE OF AND TO CONFORM WITH ALL RULES AND RESPONSIBILITIES ASSOCIATED WITH PROVIDING A SAFE WORK PLACE. THE CONTRACTOR MUST COMPLY WITH OSHA 29 CFR PART 1926, SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION.

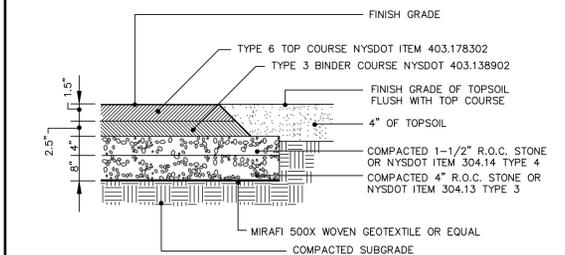


5	TREE PLANTING AND STAKING DETAIL	
C501	NOT TO SCALE	

NOTE: DO NOT OVER TIGHTEN WIRE. SLACK SHALL REMAIN TO ALLOW FOR SOME MOVEMENT.

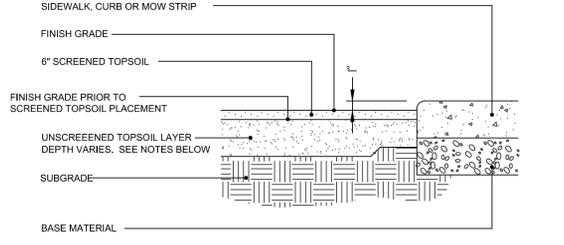
LANDSCAPING NOTES

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- ALL TREES SHALL ARRIVE ON SITE BEARING THE ORIGINAL IDENTIFICATION TAGS SHOWING THE BOTANICAL NAME, COMMON NAME AND SIZE.
- ALL TREES SHALL HAVE A MIN. 4" DIA. SHREDDED HARDWOOD MULCH RING AROUND THE BASE OF THE TREE.
- ALL LANDSCAPE BEDS SHALL HAVE WEED BARRIER FABRIC AND 3" MIN. DEEP SHREDDED HARDWOOD MULCH.
- ALL PLANT MATERIAL SHALL BE THOROUGHLY WATERED BY THE CONTRACTOR AT THE TIME OF PLANTING.
- CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UNDERGROUND UTILITIES SHOWN ARE BASED ON RECORDS OF VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, FIELD MEASUREMENTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT UNDERGROUND UTILITIES CALL CENTER OF NEW YORK (1-800-962-7962) TO OBTAIN EXACT FIELD LOCATIONS OF ALL SUCH UTILITIES PRIOR TO START OF CONSTRUCTION.



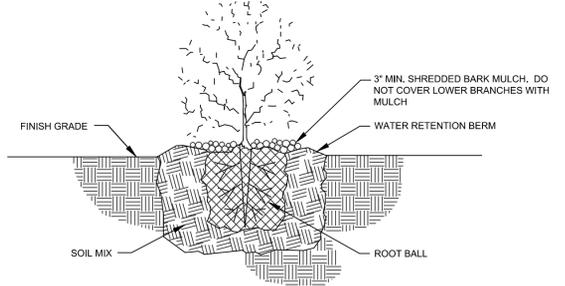
RUN OF CRUSHER STONE - SHALL BE ANGULAR CRUSHED UNSORTED LIMESTONE, WELL GRADED WITH SUFFICIENT FINES TO FILL ALL VOIDS WHEN COMPACTED. GRADATION SHALL BE AS FOLLOWS:

1	TYPICAL PAVEMENT DETAIL	
C501	NOT TO SCALE	D153-01



NOTES:
GRASSSED AREAS - UNSCREENED TOPSOIL SHALL BE 6" IN DEPTH
PLANTING BEDS - UNSCREENED TOPSOIL SHALL BE 14" IN DEPTH
TREE PLANTING AREAS - UNSCREENED TOPSOIL SHALL BE 20" IN DEPTH & 10" IN DIAMETER.

2	SOIL PROFILE - VARIOUS AREAS	
C501	NOT TO SCALE	D132-02



3	SHRUB PLANTING DETAIL	
C501	NOT TO SCALE	

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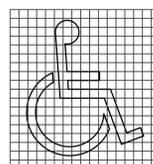
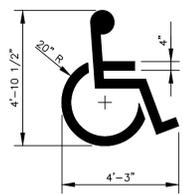
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GENERAL INFORMATION AND SITE DETAILS
BREEN AVENUE RESIDENCE
164 BREEN AVENUE
CITY OF WATERTOWN, NEW YORK

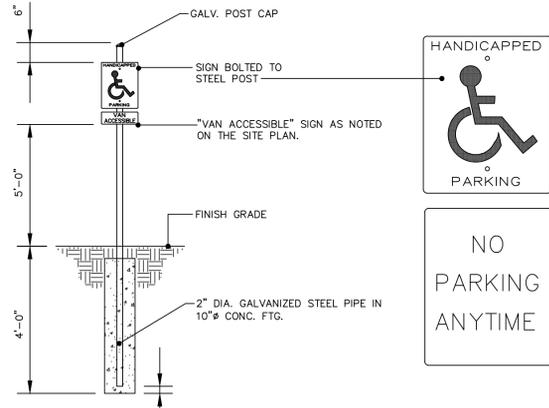
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Date:	11/2/2011
Drawn By:	RGC
Designed By:	RGC/EGO
Checked By:	
Date Issued:	11/22/2011
Drwg. No.	

C501

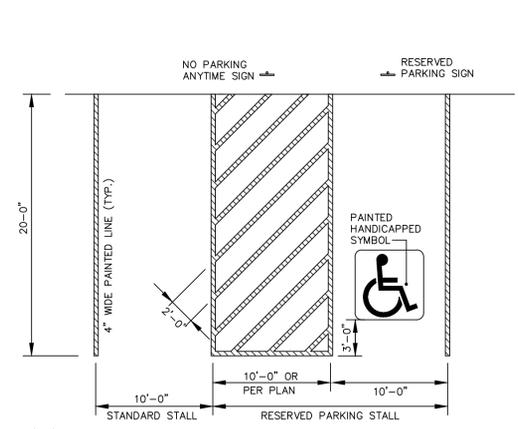
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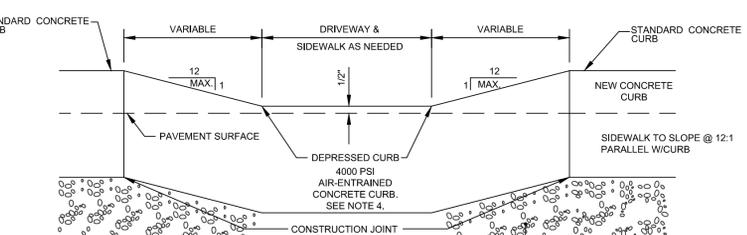
1 TYPICAL HANDICAP SYMBOL DETAIL
C502 NOT TO SCALE D156-01



2 TYPICAL HANDICAP SIGN DETAIL
C502 NOT TO SCALE D157-01

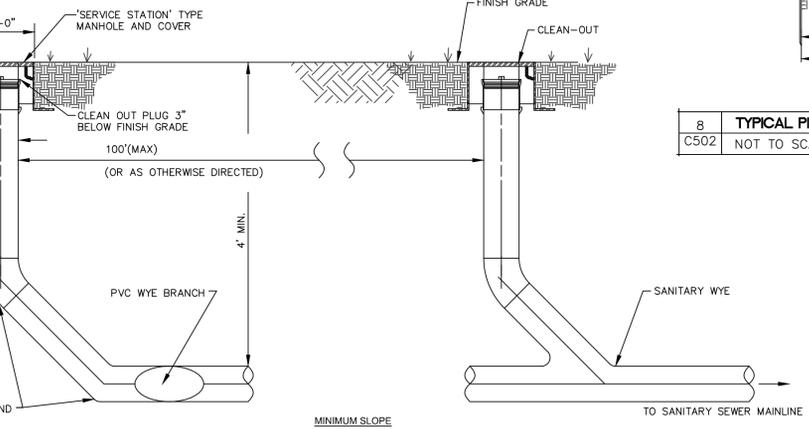


3 TYPICAL PARKING STALL MARKINGS
C502 NOT TO SCALE SW136-01

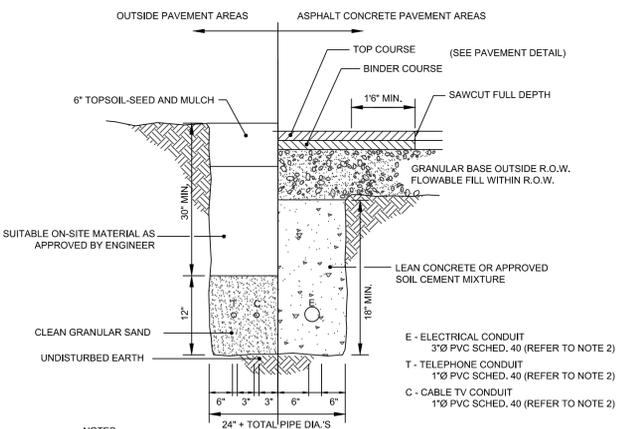


4 DEPRESSED CURB
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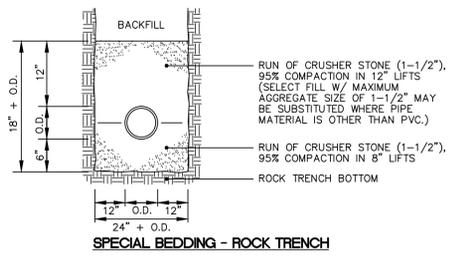
5 TYPICAL ELECTRICAL TRENCH DETAIL
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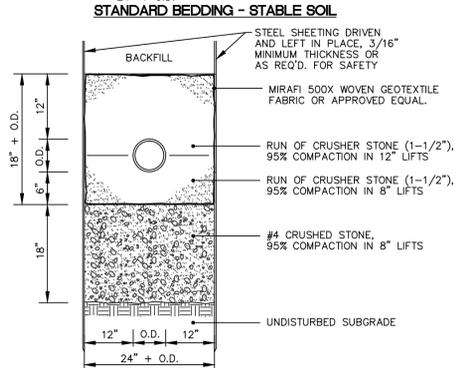
6 TYPICAL SEWER LATERAL DETAIL
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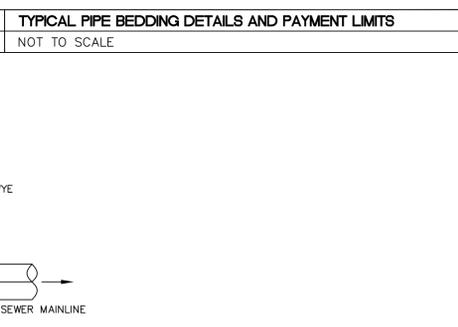
7 TYPICAL UNDERGROUND UTILITY TRENCH DETAIL
C502 NOT TO SCALE E103-02



SPECIAL BEDDING - ROCK TRENCH

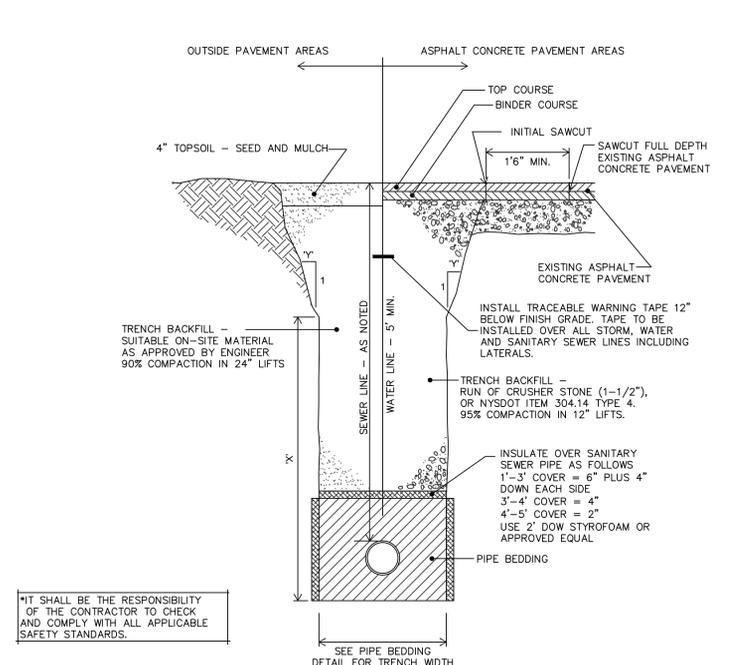


STANDARD BEDDING - STABLE SOIL

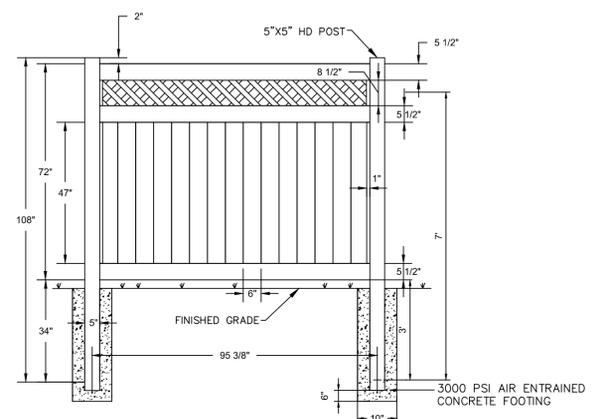


SPECIAL BEDDING - UNSTABLE SOIL

8 TYPICAL PIPE BEDDING DETAILS AND PAYMENT LIMITS
C502 NOT TO SCALE U102-01



9 TYPICAL UTILITY LINE TRENCH DETAIL AND PAYMENT LIMITS
C502 NOT TO SCALE D101-02



10 VINYL FENCE DETAIL
C502 NOT TO SCALE D101-02

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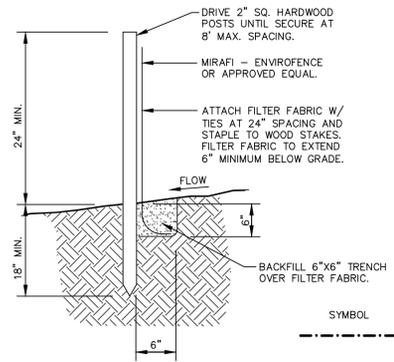
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SITE AND UTILITY DETAILS
BREEN AVENUE RESIDENCE
164 BREEN AVENUE
CITY OF WATERTOWN, NEW YORK

Project No: 2011-204
Scale: AS NOTED
Date: 11/2/2011
Drawn By: RGC
Designed By: RGC/EGO
Checked By:
Date Issued: 11/22/2011
Drwg. No.

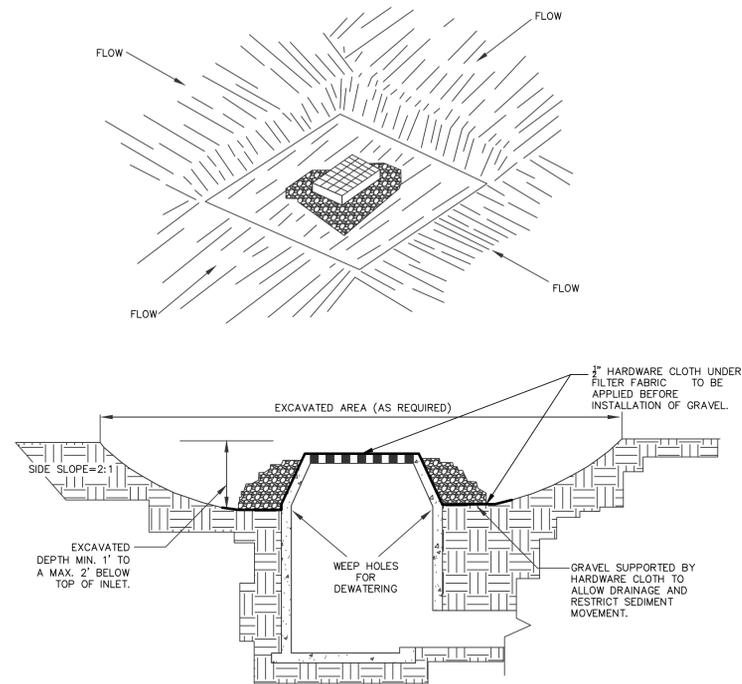
C502

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- NOTES**
- SILTATION FENCE TO REMAIN IN PLACE UNTIL LAWNS HAVE BEEN ESTABLISHED AND/OR FINISH SURFACES HAVE BEEN INSTALLED.
 - SILTATION FENCE TO BE CHECKED AND MAINTAINED THROUGHOUT CONSTRUCTION. SILT ACCUMULATIONS SHALL BE REMOVED PERIODICALLY AS REQUIRED.
 - SECTIONS OF FILTER FABRIC TO HAVE 12" OVERLAP AT WOOD STAKES AND STAPLED IN PLACE.

1	TYPICAL SILTATION FENCE DETAIL	
C503	NOT TO SCALE	D120-01

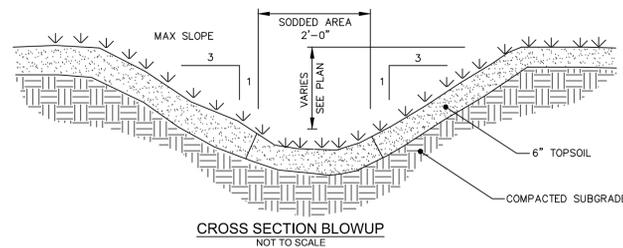


CONSTRUCTION SPECIFICATIONS:

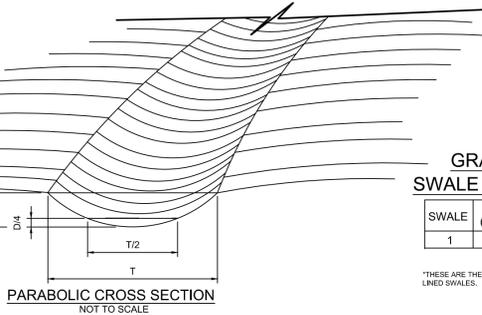
- CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION.
- GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN.
- WEEP HOLES SHALL BE PROTECTED BY GRAVEL.
- UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEAL WEEP HOLES, FILL BASIN WITH STABLE SOIL TO FINAL GRADE, COMPACT IT PROPERLY AND STABILIZE WITH PERMANENT SEEDING.

MAXIMUM DRAINAGE AREA 1 ACRE

4	EXCAVATED DROP INLET PROTECTION DETAIL	
C503	NOT TO SCALE	



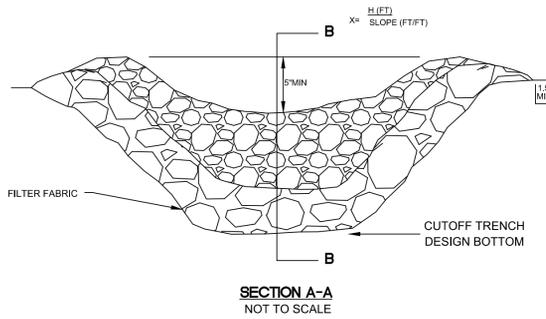
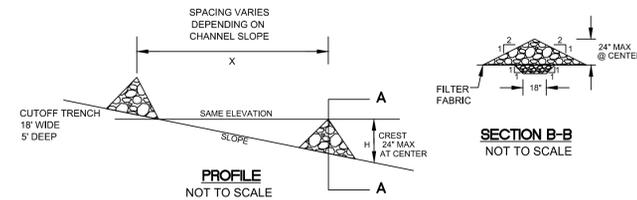
CROSS SECTION BLOWUP
NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

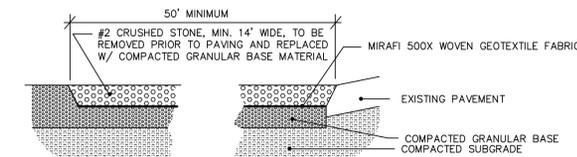
- ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE WATERWAY.
- THE WATERWAY SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN, AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
- FILLS SHALL BE COMPACTED AS NEEDED TO PREVENT UNEQUAL SETTLEMENT THAT WOULD CAUSE DAMAGE IN THE COMPLETE WATERWAY.
- ALL EARTH REMOVED AND NOT NEEDED IN CONSTRUCTION SHALL BE SPREAD OR DISPOSED OF SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE WATERWAY.
- STABILIZATION SHALL BE DONE ACCORDING TO THE APPROPRIATE STANDARD AND SPECIFICATIONS FOR VEGETATIVE PRACTICES.
- SEEDING AND MULCHING MAY BE USED FOR THE ESTABLISHMENT OF THE VEGETATION. IT IS RECOMMENDED THAT, WHEN CONDITIONS PERMIT, TEMPORARY WATERWAYS OR OTHER MEANS SHOULD BE USED TO PREVENT WATER FROM ENTERING THE WATERWAY DURING THE ESTABLISHMENT OF THE VEGETATION.

5	GRASSED WATERWAY	
C503	NOT TO SCALE	

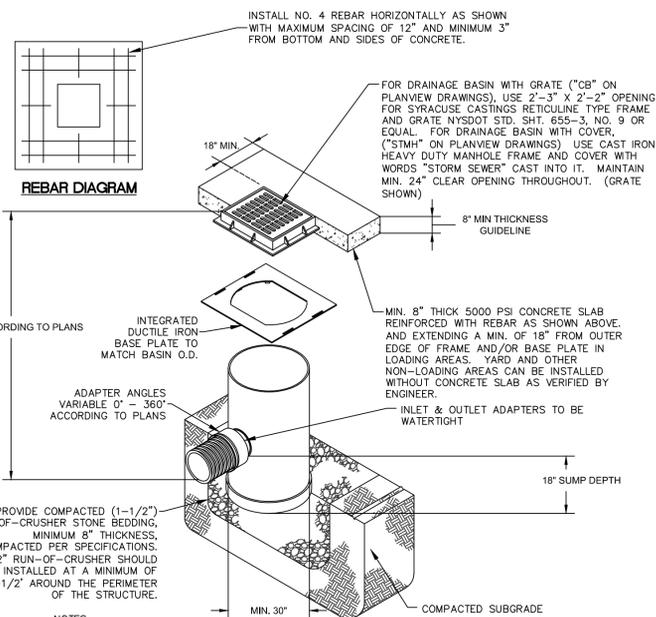


NOTE: USE GRADED STONE 2-9" IN SIZE (NYS-DOT LIGHT STONE FILL MEETS THESE REQUIREMENTS).

6	TYPICAL CHECK DAM DETAIL	
C503	NOT TO SCALE	D117-01



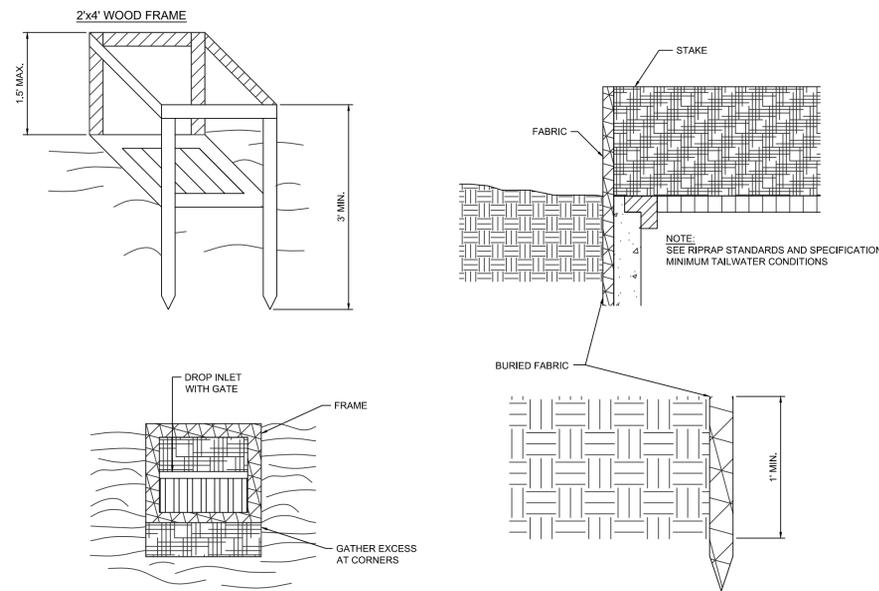
2	TYPICAL OFFSITE SEDIMENT TRACKING CONTROL (CONST. ENTRANCE)	
C503	NOT TO SCALE	D163-01



NOTES:

- TO MEET ASTM D3212 REQUIREMENTS THE MINIMUM TRENCH WIDTH SHALL NOT BE LESS THAN THE GREATER OF EITHER THE PIPE'S OUTSIDE DIAMETER PLUS 16" OR THE PIPE'S OUTSIDE DIAMETER TIMES 1.25 PLUS 12" WHICH WOULD BE EQUIVALENT TO 52" FOR A 30" NYLOPLAST DRAIN BASIN.
- BASE PLATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS.
- DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE.

3	PVC DRAINAGE BASIN	
C503	NOT TO SCALE	D102-02



CONSTRUCTION SPECIFICATIONS

- FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
- CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
- STAKE MATERIALS WILL BE STANDARD 2"x4" WOOD OR EQUIVALENT, METAL WITH A MINIMUM LENGTH OF 3 FEET.
- 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.
- FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
- A 2"x4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.

7	FILTER FABRIC DROP INLET PROTECTION DETAIL	
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STORM WATER DETAILS
BREEN AVENUE RESIDENCE
164 BREEN AVENUE
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