# TOWN OF WATERTOWN WATERTOWN, CONNECTICUT

### NOTICE OF BID

**ADDENDUM #1** 

Date Issued: August 7, 2023

Hungerford Ave. Storm Drainage Installation Bid Watertown Public Works Department

The Town of Watertown is hereby issuing this said Addendum Number 1 for the above noted project:

#### TECHNICAL SPECIFICATIONS CURBING

Additional Language for bid:

Catch Basin-(Type)

Notice of Bid includes provisions for Catch Basins

The Town will supply all parts need to build catch basins and tops, as needed. The Contractor will supply all block and mortar for installation of provided catch basins as required by bid specifications. All tops shall be set to existing road grade and dry set

#### TECHNICAL SPECIFICATIONS STORM SEWER SYSTEM

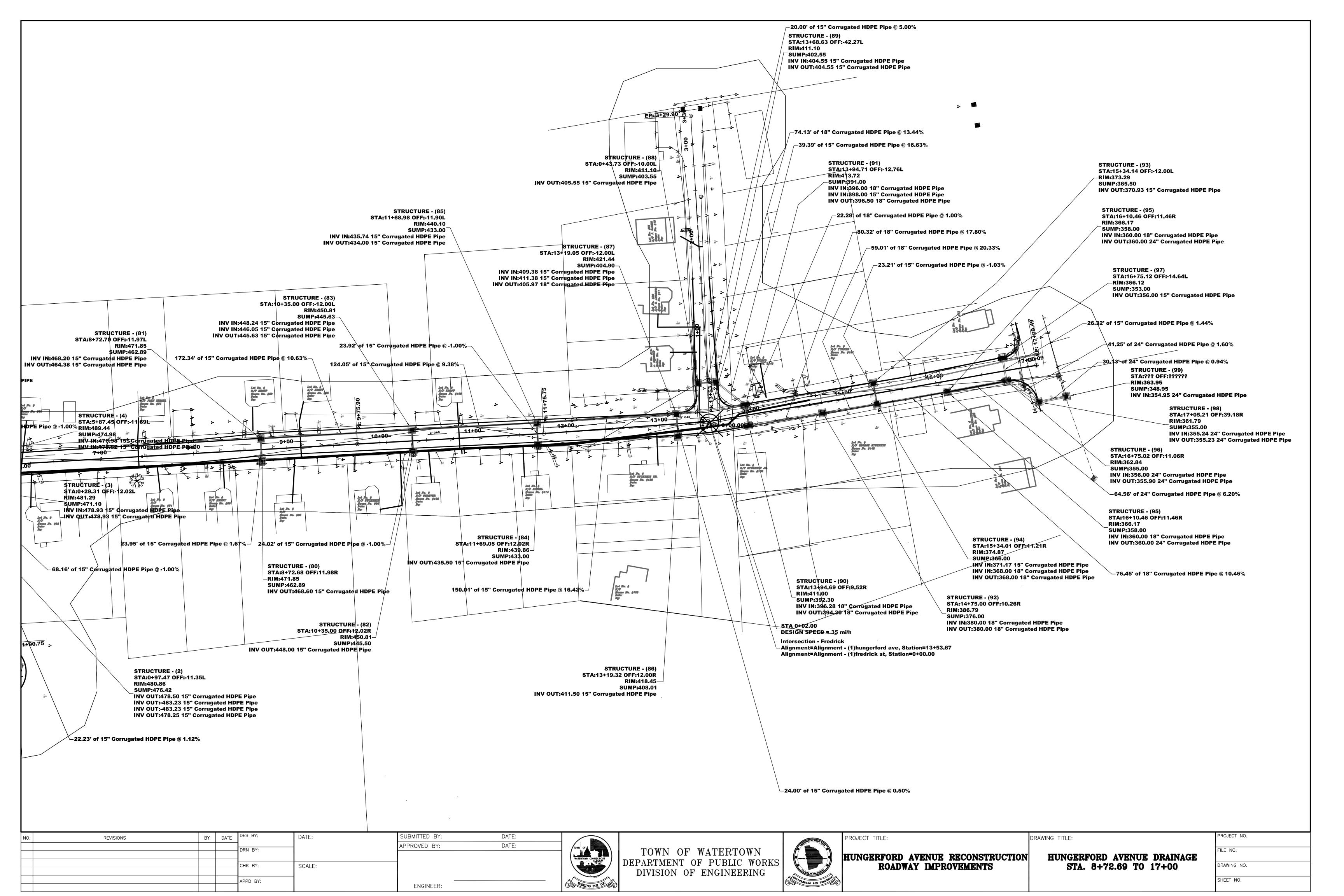
Additional Language for bid:

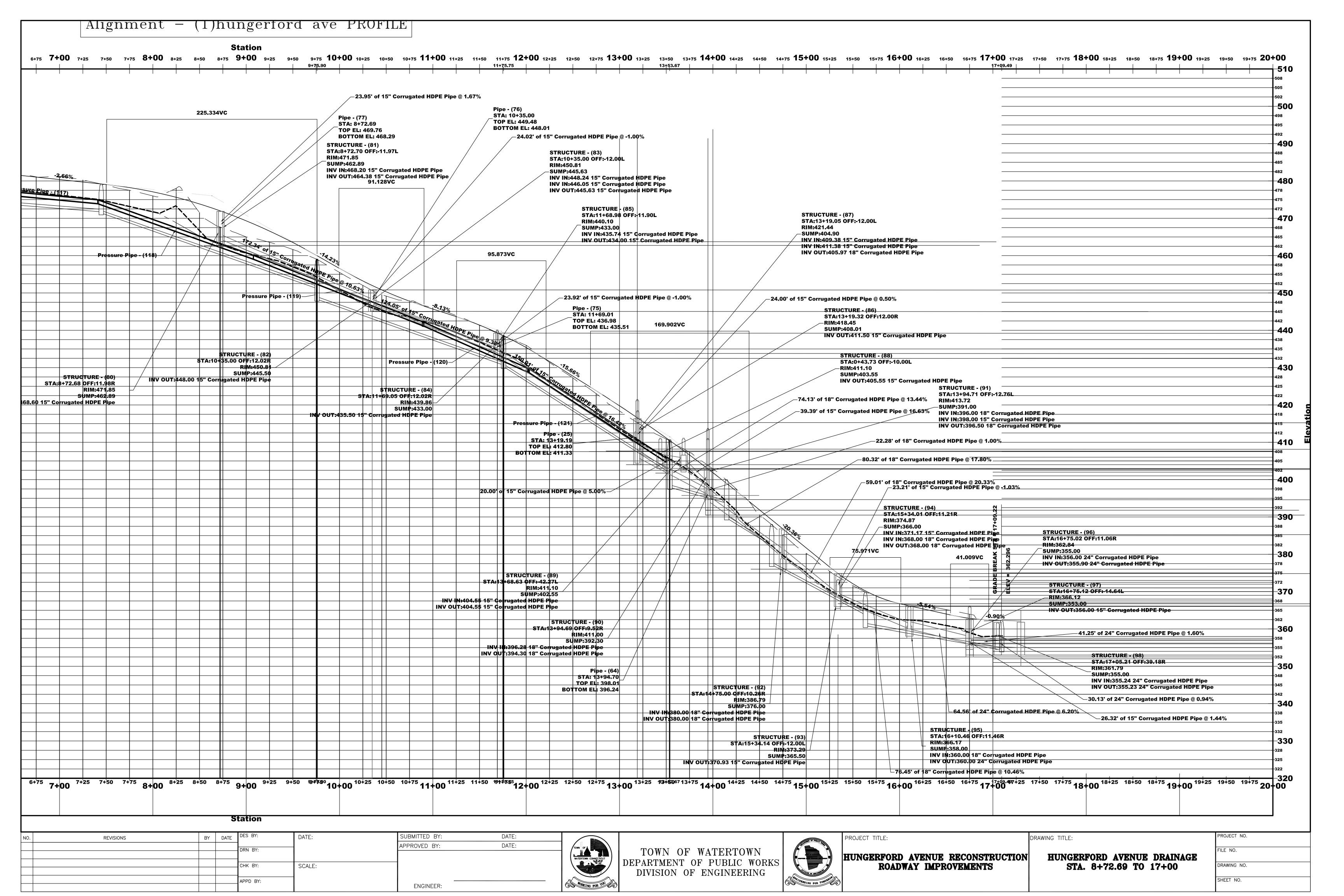
Pipe – (Size and Type):

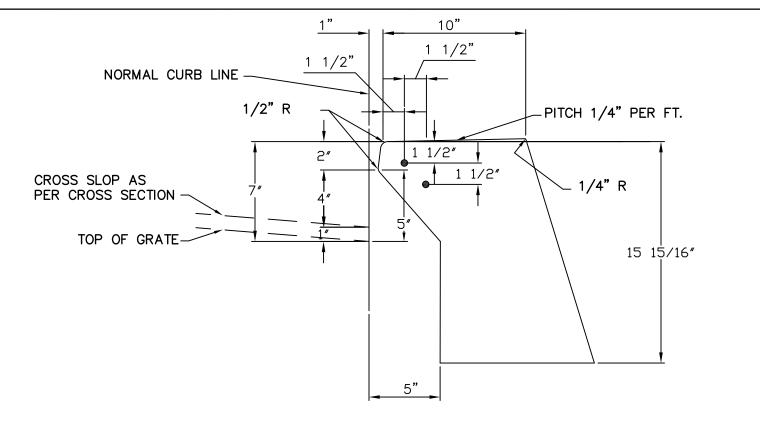
Notice of Bid also includes provision of drainage pipes.

The Town will supply all parts for the drainage pipes as required by bid specifications. The Contractor will supply all stone and additional processed gravel required to completed by the Contract (See attached specifications)

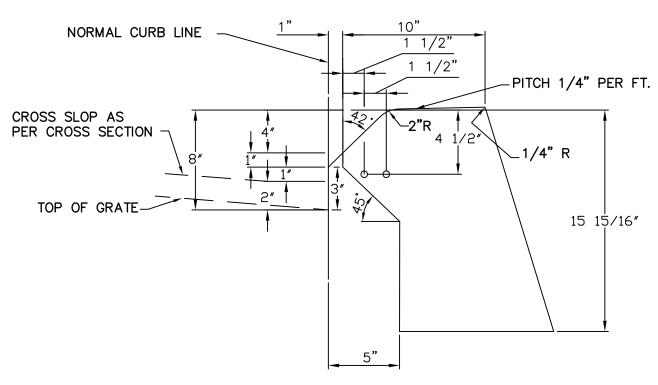
This Addendum includes the attached Addendum Drawings







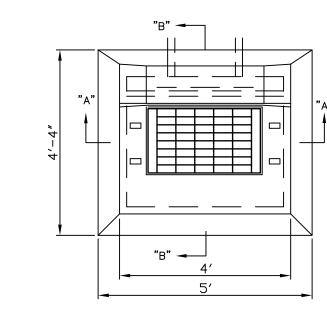
TO BE USED WHEN CURB INLET IS CONSTRUCTED IN A LINE OF PLAIN CONCRETE CURBING, DOWELED CONCRETE CURBING, OR STONE CURBING, 6" HIGH



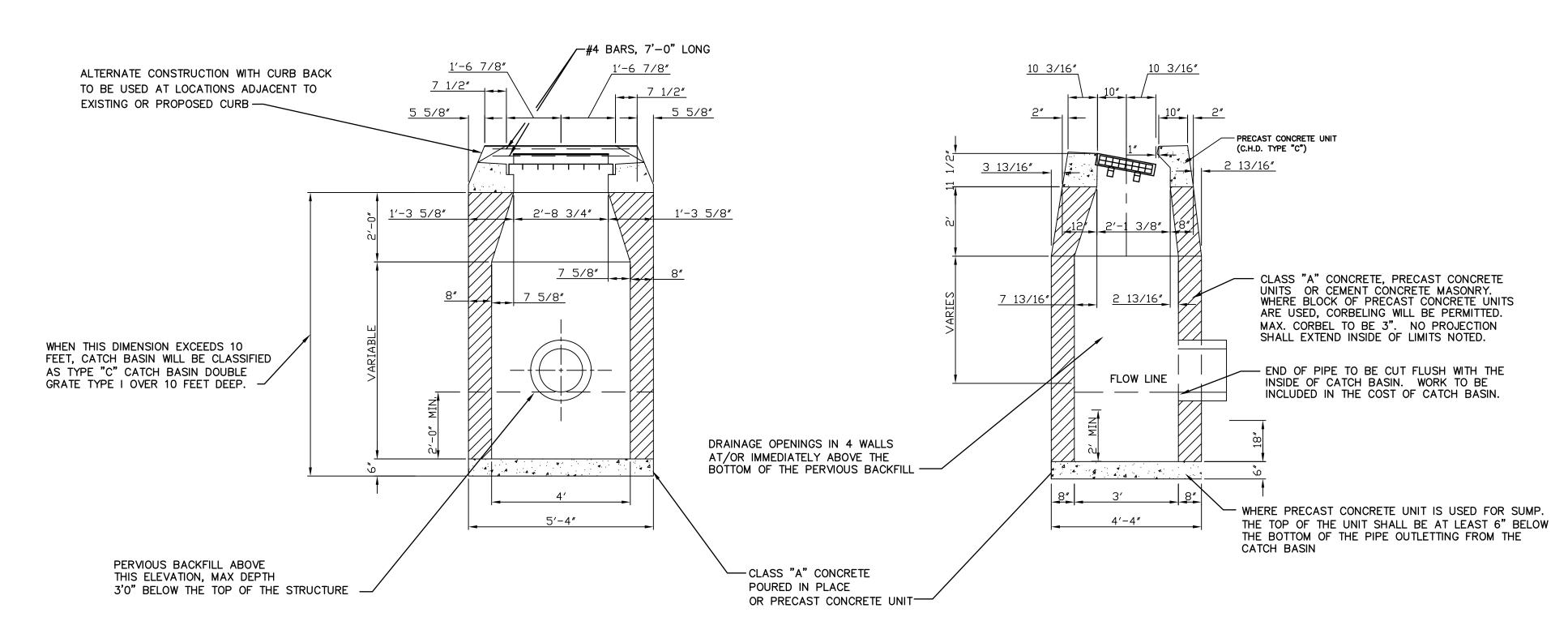
TO BE USED WHEN CURB INLET IS CONSTRUCTED IN A LINE OF BITUMINOUS CONCRETE LIP CURB, 6" HIGH

# DETAIL OF CURB INLET <u>PLAIN CURB TYPE</u>

DETAIL OF CURB INLET PARK CURB TYPE



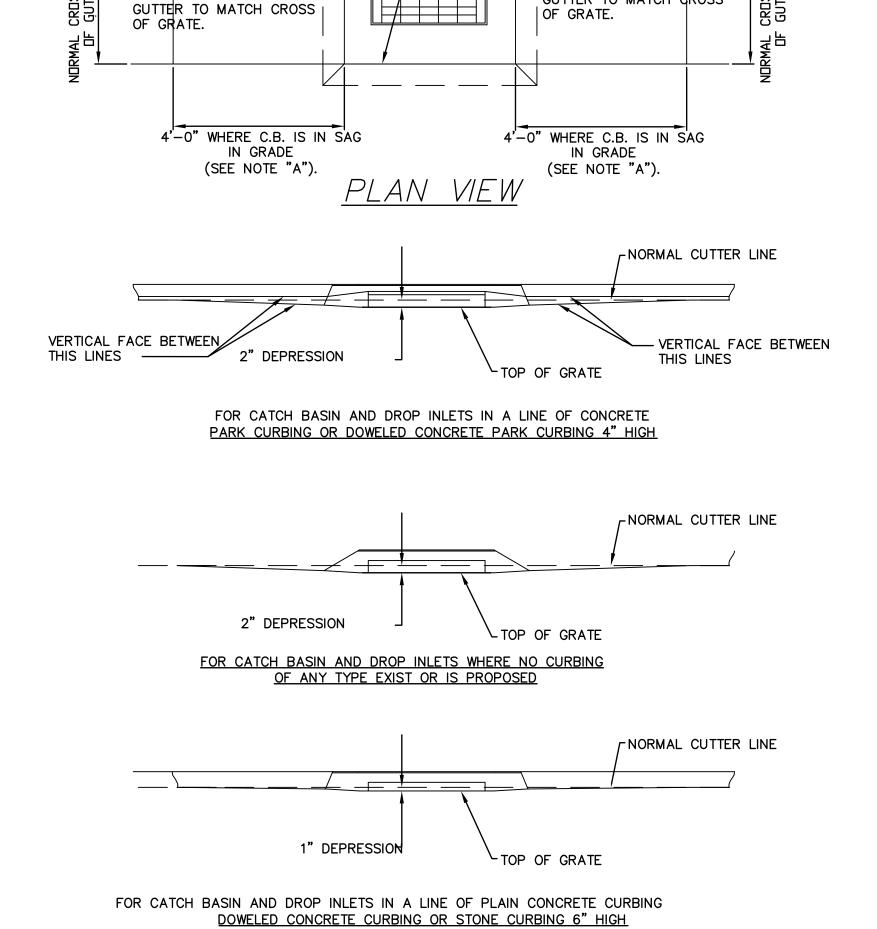
PLAN VIEW



SECTION A-A

SECTION B-B

CTANDADD TYDE



-EDGE OF PAVEMENT

VERY CROSS SLOPE OF

GUTTER TO MATCH CROSS

CURBING -

VERY CROSS SLOPE OF

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TOWN OF WATERTOWN DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING



PROJECT TITLE:

VERTICAL FACE BETWEEN

THIS LINES

TOWN OF WATERTOWN STANDARD DRAWINGS

DRAWING TITLE:

FOR CATCH BASIN AND DROP INLETS IN A LINE OF BITUMINOUS CONCRETE LIP CURBING (MACHINE FORMED) 6" HIGH

TYPE " C " CATCH BASIN

NORMAL CUTTER LINE

THIS LINES

\_ VERTICAL FACE BETWEEN

NOTE:

PAVEMENT.

TOWN ENGINEER

1. WALLS OF ALL CATCH BASINS OVER 10' DEEP SHALL BE INCREASED TO 12" THICK

2. DEEPER SUMPS MAY BE REQUIRED AT LOCATIONS SPECIFIED BY THE TOWN ENGINEER.

3. WHEN CATCH BASIN IS SET IN CONCRETE

SURFACE SHALL BE CHANGED TO ADJOINING

A. 6'-0" ON UPGRADE SIDE OF CONTINUOUS

CONTINUOUS GRADE OR AS DIRECTED BY THE

PAVEMENT THE 1/2"SLOPE ON THE TOP

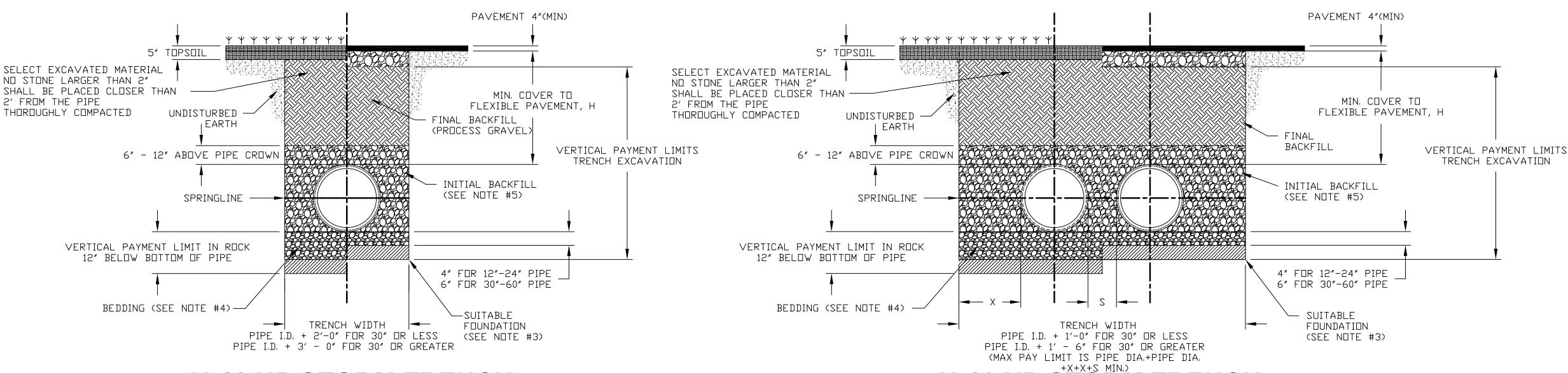
GRADE. 1'-0" ON DOWNGRADE SIDE OF

PROJECT NO.	<>
FILE NO.	<>
DRAWING NO.	153WTN-3A
SHEET NO.	153WTN-3A

# N-12 HP STORM TRENCH INSTALLATION DETAIL ROADWAY OR IN LANDSCAPED OR GRASS AREAS

# NOTES:

- 1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION
- 2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED
- EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
- 4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I (FORM 816 M.02.05). THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100MM) FOR 4"-24" (100MM-600MM); 6" (150MM) FOR 30"-60" (750MM-900MM). WHEN GROUND WATER IS ENCOUNTERED  $\frac{3}{4}$  CRUSHED STONE IS REQUIRED FOR BEDDING TO SPRING LINE OF PIPE, (SILTY OR CLAYEY GRAVEL, GRAVEL/SAND/SILT OR GRAVEL AND CLAY MIXTURES; SILTY OR CLAYEY SANDS, SAND/CLAY OR CLAY/SILT MIXTURES) FOR BEDDING/BACKFILL IS NOT ALLOWED UNDER PAVEMENT.
- 5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, 2 OR 3 (Form 816 M.02.05) IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION. (SILTY OR CLAYEY GRAVEL, GRAVEL/SAND/SILT OR GRAVEL AND CLAY MIXTURES; SILTY OR CLAYEY SANDS, SAND/CLAY OR CLAY/SILT MIXTURES) FOR BEDDING/BACKFILL IS NOT ALLOWED UNDER PAVEMENT.
- 6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT.



# N-12 HP STORM TRENCH **INSTALLATION DETAIL (STANDARD)**

NOT TO SCALE

N-12 HP STORM TRENCH **INSTALLATION DETAIL (PARALLEL)** 

NOT TO SCALE

# NOTES:

MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.

SOIL CLASSIFICATIONS ARE PER THE LATEST VERSION (FORM 816) ARE NOT APPROPRIATE BACKFILL MATERIALS.

- 2. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
- 3. <u>BEDDING:</u> SUITABLE MATERIAL SHALL BE CLASS I. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-900mm).
- 4. BACKFILL: FOR PIPES OUTSIDE OF PAVEMENT CLASS 1,2 OR 3 (FORM 816 M.02.05) MATERIAL TO BE USED FOR BACKFILL UP TO THE SPRING LINE OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER. CLASS I MATERIAL MUST BE COMPACTED IN 6" (200mm) LIFTS TO 95% STANDARD PROCTOR DENSITY.
- 5. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS IS 12" (300mm) FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION.
- 6. SELECT NATIVE CLEAN BACKFILL SHALL BE WELL PLACED, MODERATELY COMPACTED (85% SPD) WITH NO FOREIGN DEBRIS INCLUDING ROCKS, LARGE CLUMPS ORGANIC MATERIAL FROZEN MATERIAL OR (SILTY OR CLAYEY GRAVEL, GRAVEL/SAND/SILT OR GRAVEL AND CLAY MIXTURES; SILTY OR CLAYEY SANDS, SAND/CLAY OR CLAY/SILT MIXTURES).
- 7. N-12 HP ALTERNATE STORM TRENCH DETAIL MUST BE APPROVED BY DESIGN ENGINEER. DETAIL DOES NOT SUPERSEDE ADS STANDARD DETAIL STD-108.

## SELECT EXCAVATED MATERIAL NO STONE LARGER THAN 2" SHALL BE PLACED CLOSER THAN -2' FROM THE PIPE THOROUGHLY COMPACTED 5" TOPSOIL MAXIMUM COVER - FINAL BACKFILL CLASS 3 MATERIAL 6" ABOVE TOP OF PIPE SEE (816 M.02.06) VERTICAL PAYMENT LIMITS TRENCH EXCAVATION SPRINGLINE CLASS 1,2 OR 3 MATERIAL TO SPRINGLINE OF PIPE SEE (Form 816 M.02.05) VERTICAL PAYMENT LIMIT IN ROCK 12" BELOW BOTTOM OF PIPE SUITABLE FOUNDATION (SEE NOTE #3) BEDDING (SEE NOTE #4) TRENCH WIDTH PIPE I.D. + 2'-0" FOR 30" OR LESS PIPE I.D. + 3' - 0" FOR 30" OR GREATER

# MINIMUM RECOMMENDED COVER BASED ON LOADING CONDITIONS

	SURFACE LIVE LOADING CONDITION					
PIPE DIAM.	H-25	HEAVY CONSTRUCTION (75T AXLE LOAD) *				
12" - 48"	12"	48"				
54" - 60"	24"	60"				

\* VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER

# RECOMMENDED MINIMUM SPACING

PIPE DIAM.	MIN. "X"	MIN. "S" +
12"	8"	12"
15"	8"	12"
18"	9"	12"
24"	10"	12"
30"	18"	15"
36"	18"	18"
42"	18"	21"
48"	18"	24"
54"	18"	27"
60"	18"	30"

\* MINIMUM SPACING ("S") MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER

\*\* MAXIMUM SPACING ("X") PIPE I.D. + 1'-0" FOR 30" OR LESS PIPE I.D. + 1' - 6" FOR 30" OR GREATER

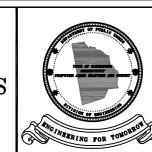
# N-12 HP STORM TRENCH **INSTALLATION DETAIL (ALTERNATE)**

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TOWN OF WATERTOWN DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING



TOWN OF WATERTOWN STANDARD DETAIL DRAWINGS

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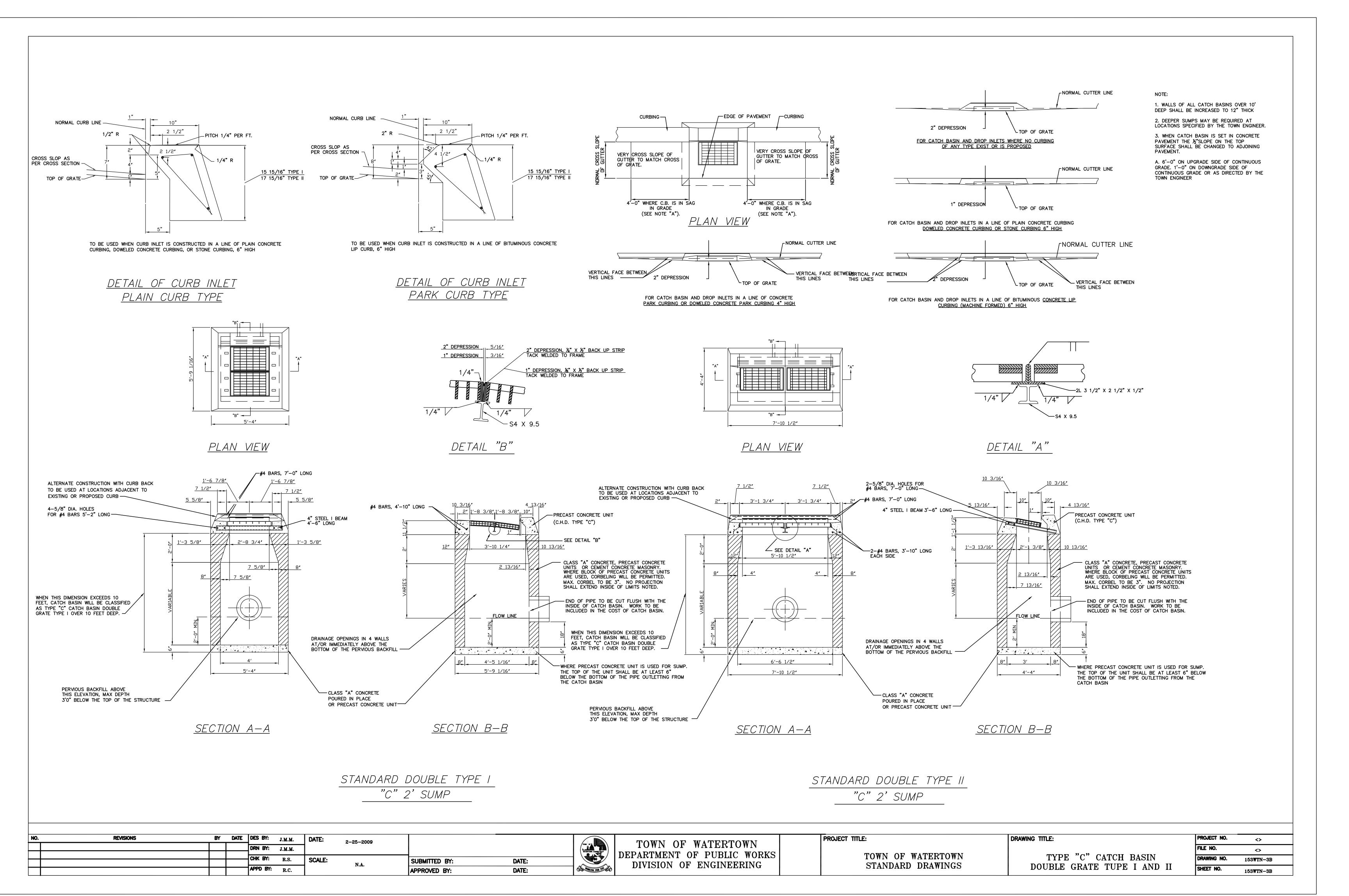
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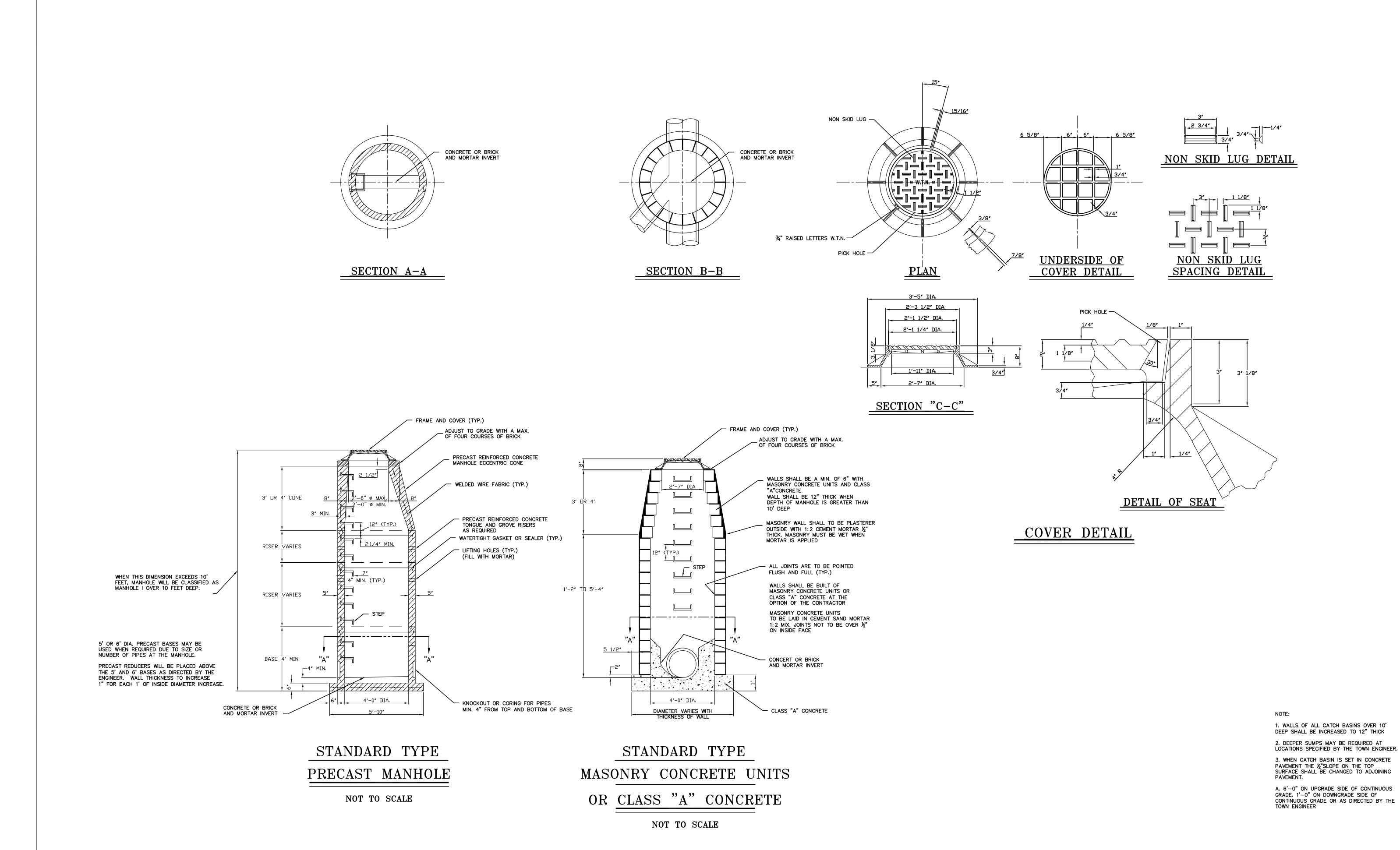
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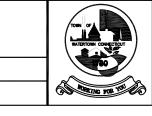
STANDARD ADS TRENCH DETAILS

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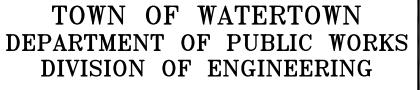


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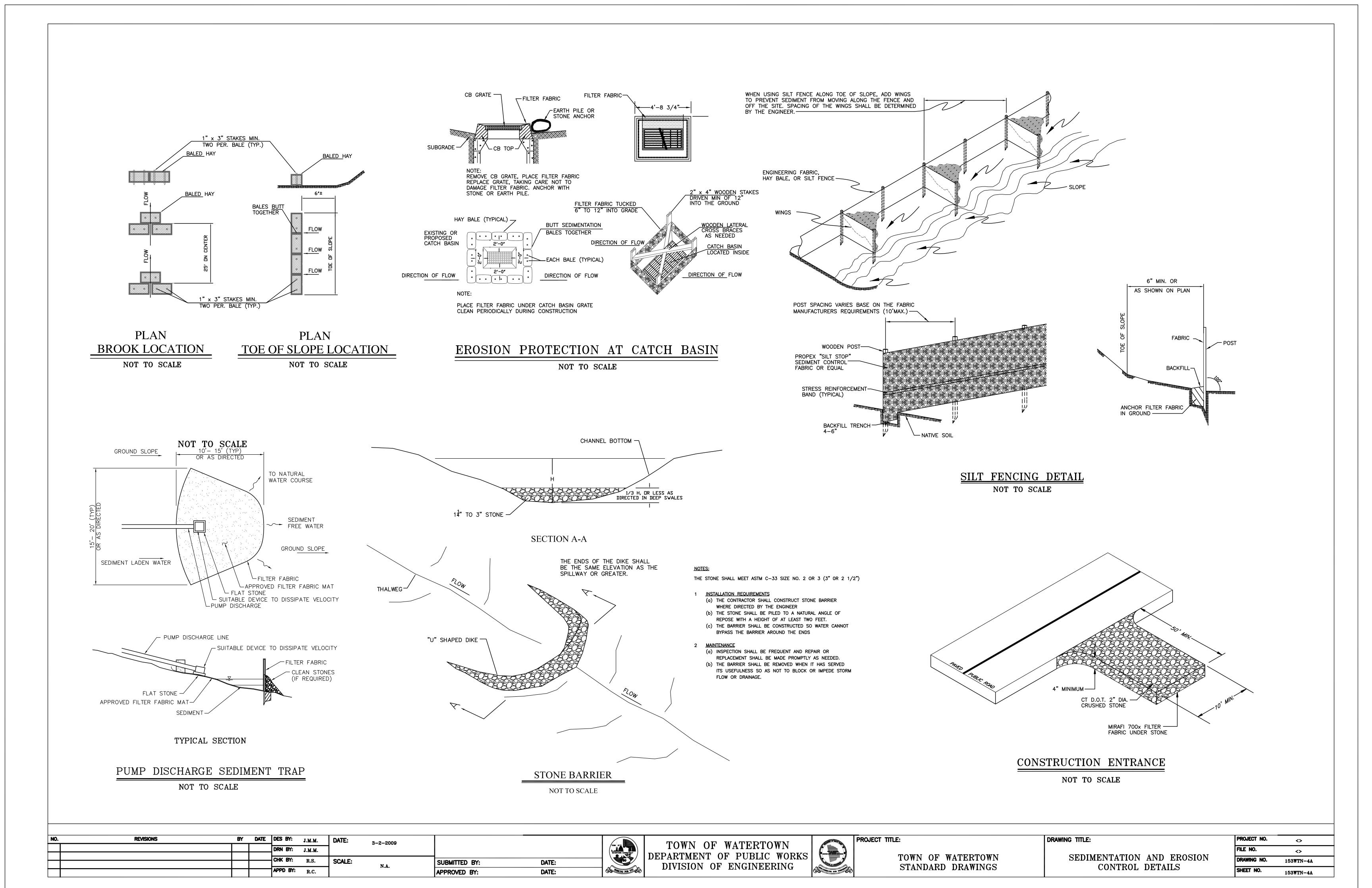
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TOWN OF WATERTOWN STANDARD DETAIL DRAWINGS DRAWING TITLE: MANHOLE,

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#### EROSION CONTROL NOTES

#### GENERAL PRINCIPLES

THE FOLLOWING GENERAL PRINCIPLES SHALL BE MAINTAIN AS EFFECTIVE MEANS OF MINIMIZING EROSION AND SEDIMENTATION DURING SITE DEVELOPMENT PERIOD.

REMOVAL OF VEGETATION, DEGRADING, AND OTHER GROUND DISTURBANCE SHALL BE PERFORMED IN A METHOD SUCH THAT EROSION IS MINIMIZED.

GRADING PLANES SHALL PRESERVE NATURAL FEATURES WHEREVER POSSIBLE AND INSURE CONFORMITY WITH TOPOGRAPHY SO AS TO MINIMIZE THE POTENTIAL FOR EROSION AND ADEQUATELY HANDLE THE VOLUME AND VELOCITY OF SURFACE WATER RUNOFF.

WHENEVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED, PROTECTED AND SUPPLEMENTED WHEREVER INDICATED ON THE PLANS.

DISTURBED AREAS SHALL BE STABILIZED AS QUICKLY AS POSSIBLE.

TEMPORARY VEGETATION AND /OR MULCHING SHALL BE USED TO PROTECT EXPOSED STRIPPED AREAS WHEN EXPECTED DURATION OF EXPOSURE IS GREATER THAN 30 DAYS.

THE FINAL VEGETATION AND EROSION CONTROL MEASURES SHALL BE INSTALLED AS EARLY AS FEASIBLE DURING THE CONSTRUCTION PHASE.

SEDIMENT IN THE RUNOFF WATER SHALL BE TRAPPED UNTIL THE DISTURBED AREAS ARE STABILIZED BY APPROPRIATE SEDIMENT CONTROL MEASURES.

FINAL GRADING SHALL BE PERFORMED IN A MANNER TO PROVIDE PROPER DRAINAGE AWAY FROM BUILDINGS AND DISPOSE OF THE SURFACE WATER WITHOUT

WHERE DRAINAGE SWALES ARE USED TO DIVERT SURFACE WATER, THEY SHALL BE SODDED OR PLANTED.

CONCENTRATION OF SURFACE RUNOFF SHALL ONLY BE PERMITTED BY PIPING AND OR THROUGH THE USE OF DRAINAGE SWALES OR NATURAL WATERCOURSES.

### CUTS AND FILLS

SLOPES CREATED BY CUTS OR FILLS THAT ARE STEPPER THAN 3:1, AND THE VERTICAL HEIGHT EXCEEDS 15 FEET, SHALL BE STABILIZED WITH ENGINEERED SLOPE STABILIZATION OR A BENCH SHALL BE CONSTRUCTED WITH A REVERSE SLOPE OF 5:1 OR FLATTER, AT LEAST 1 FOOT DEEP.

ADEQUATE PROVISIONS SHALL BE MADE TO PREVENT SURFACE WATER FROM DAMAGING THE CUT FACE OF EXACTIONS OR THE SLOPING SURFACES OF FILLS.

CUTS AND FILL SHALL NOT ENDANGER ADJOINING PROPERTY

ALL FILLS TO BE COMPACTED TO PROVIDE STABILITY OF MATERIAL AND TO PREVENT UNDESIRABLE SETTLEMENT. THE FILL SHALL BE SPREAD IN LIFTS NOT TO EXCEED 12" AND SHALL BE COMPACTED BY AN APPROVED METHOD AFTER EACH LIFT IS PLACED.

GRADING SHALL BE PERFORMED IN A MANNER SUCH THAT SURFACE WATER IS NOT DIVERTED ON TO PROPERTY OF AN ADJACENT PROPERTY OWNER.

FILLS SHALL NOT ENCROACH ON NATURAL WATERCOURSES, CHANNELS, REGULATED WETLANDS AREAS. OR REGULATED FLOOD PLAIN AREAS UNLESS PERMITTED BY LICENSE OR PERMIT FROM THE PROPER AUTHORITY.

DUST CONTROL MEASURES SHALL BE IMPLEMENTED DURING CONSTRUCTION ACTIVITIES IF REQUIRED.

SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE IMPLEMENTED IN ACCORDANCE WITH THESE PLANS AND THE "2002 CONNECTICUT GUIDELINES FOR SOIL AND SEDIMENT CONTROL".

# RESPONSIBILITY FOR THE PLAN

WHENEVER SEDIMENTATION IS CAUSED BY STRIPPING VEGETATION AND/OR GRADING, IT SHALL BE THE RESPONSIBILITY OF THE PERSON, CORPORATION, OR OTHER ENTITY HAVING RESPONSIBILITY TO REMOVE SEDIMENTATION FROM ALL LOWER PROPERTIES, DRAINAGE SYSTEMS AND WATERCOURSES, AND TO REPAIR ANY DAMAGE AT THEIR EXPENSE AS QUICKLY AS POSSIBLE.

MAINTENANCE OF ALL DRAINAGE FACILITIES AND WATERCOURSES WITHIN ANY PROJECT SHALL BE THE RESPONSIBILITY OF THE OWNER/DEVELOPER UNTIL THE PROJECT IS ACCEPTED BY THE TOWN OF WATERTOWN. ALL CONTROL MEASURES SHALL BE MAINTAINED IN EFFECTIVE CONDITION THROUGH THE CONSTRUCTION PERIOD. SURFACE INLETS SHALL BE KEPT OPEN AND FREE OF SEDIMENT AND DEBRIS. THE CONTROL MEASURES SHALL BE CHECKED AFTER EVERY MAJOR STORM AND SEDIMENT SHALL BE REMOVED AS REQUIRED.

IT SHALL BE THE RESPONSIBILITY OF ANY PERSON, CORPORATION, OR OTHER ENTITY ENGAGING IN ANY ACT ON OR NEAR ANY STREAM, WATERCOURSE, OR SWALE OR UPON THE FLOOD PLAIN, WETLANDS OR RIGHT-OF-WAY THEREOF TO MAINTAIN AS NEARLY AS POSSIBLE IN ITS PRESENT STATE THAT THE SAME STREAM, WATERCOURSE, SWALE, FLOOD PLAIN, WETLANDS OR RIGHT-OF-WAY FOR THE DURATION OF THE ACTIVITY AND RETURN IT TO ITS ORIGINAL OR EQUAL CONDITION AFTER SUCH ACTIVITY IS COMPLETED.

MAINTENANCE OF ALL DRAINAGE FACILITIES AND WATERCOURSES ORIGINATING AND COMPLETELY ON PRIVATE PROPERTY SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO THEIR POINT OF OPEN DISCHARGE AT THE PROPERTY LINE OR AT A COMMUNAL WATERCOURSE WITHIN THE PROPERTY.

NO PERSON, CORPORATION, OR ANY ENTITY SHALL BLOCK, IMPEDE THE FLOW OF, ALTER. CONSTRUCT ANY STRUCTURE OR DEPOSIT ANY MATERIAL OR OBJECT OR COMMIT ANY ACT WHICH WILL AFFECT NORMAL OR FLOOD FLOW IN ANY COMMUNAL STREAM OR WATERCOURSE WITHOUT OBTAINING PRIOR APPROVAL FROM THE PROPER AUTHORITY.

AN ADEQUATE RIGHT-OF-WAY AND/OR EASEMENT SHALL BE PROVIDED FOR ALL DRAINAGE FACILITIES AND WATERCOURSES WHICH ARE PROPOSED EITHER FOR ACCEPTANCE BY THE TOWN OF WATERTOWN OR PROVIDED BY OTHER PROPERTY OWNERS FOR THE CONVENIENCE OF THE OWNER/DEVELOPER.

IN CASE OF AN EMERGENCY (SEVERE FLOODING, HEAVY RAINS, ETC.) THE PARTY RESPONSIBLE AND THE TOWN OF WATERTOWN. WETLANDS ENFORCEMENT OFFICER (MOOSA RAFEY) SHALL BE NOTIFIED AT (860) 945-5266.

3-2-2009

THE EMERGENCY CONTACT IS THE TOWN OF WATERTOWN, HIGHWAY SUPERINTENDENT (WILLIAM BATTERTON) AT (860) 945-5244

## TOPSOIL AND TURF ESTABLISHMENT

## PLACING TOPSOIL

THE AREAS ON WHICH TOPSOIL IS TO BE PLACED SHALL BE GRADED TO A REASONABLY TRUE SURFACE. TOPSOIL SHALL THEN BE SPREAD TO THE LINES SHOWN ON THE PLANS. ALL STONES, ROOTS, DEBRIS, SOD, WEEDS AND OTHER UNDESIRABLE MATERIAL SHALL BE REMOVED. AFTER SHAPING AND GRADING, ALL TRUCKS AND OTHER EQUIPMENT SHALL BE EXCLUDED FROM THE TOPSOIL AREA TO PREVENT EXCESSIVE COMPACTION. THE CONTRACTOR SHALL PERFORM SUCH WORK AS REQUIRED TO PROVIDE A FRIABLE SURFACE FOR SEED GERMINATION AND PLANT GROWTH PRIOR TO SEEDING.

#### SEEDBED PREPARATION

FINE GRADE AND RAKE SURFACE TO REMOVE STONES LAGER THAN TWO INCHES IN DIAMETER. INSTALL THE REQUIRED EROSION CONTROL DEVICES. GRADE STABILIZATION STRUCTURES, SEDIMENT BASIN AND/OR DRAINAGE CHANNELS TO MAINTAIN SEEDED AREAS. APPLY LIMESTONE AT A RATE OF 2 TONS/ACRE OR 10 LBS./1000 SF UNLESS SPECIFIED OTHERWISE ON THE TOPSOIL TEST RESULTS. APPLY 10-10-10 FERTILIZER AT A RATE OF 300 LBS./ACRE OR 77.5 LBS./1000 SF. AT LEAST 50% OF THE NITROGEN SHALL BE FROM ORGANIC SOURCES. WORK LIME AND FERTILIZER INTO SOIL UNIFORMLY TO A DEPTH OF 4" WITH A HARROW OR OTHER SUITABLE EQUIPMENT FOLLOWING THE CONTOUR LINES.

### SEED APPLAICATION

APPLY GRASS MIXTURES AT RATES SPECIFIED BY HAND, CYCLONE SEEDER OR HYDROSEEDER. INCREASE SEED MIXTURE BY 10% IF HYDROSEEDER IS USED. LIGHTLY DRAG OR ROLL THE SEEDED SURFACE COVER SEED. SEEDING FOR SELECTED FINE GRASSES SHOULD BE DONE BETWEEN APRIL 1 AND JUNE 1 OR BETWEEN AUGUST 15 AND OCTOBER 15. IF SEEDING CANNOT BE DONE DURING THESE TIMES. REPEAT MULCHING PROCEDURE BELOW UNTIL SEEDING CAN TAKE PLACE OR SEED WITH A QUICK GERMINATING SEED MIXTURE TO STABILIZE SLOPES. A QUICK GERMINATING SEED MIXTURE, (DOMESTIC RYE), CAN BE APPLIED BETWEEN JUNE 15 THROUGH AUGUST 15 AS APPROVED BY THE ENGINEER.

## <u>MULCHING</u>

IMMEDIATELY FOLLOWING SEEDING, MULCH THE SEEDED SURFACE WITH STRAW, HAY OR WOOD FIBER AT A RATE OF 1.5 TO 2 TONS/ACRE EXCEPT AS OTHERWISE SPECIFIED ELSEWHERE. MULCHES SHALL BE FREE OF WEEDS AND COARSE MATTER. SPREAD MULCH BY HAND OR MULCH BLOWER. PUNCH MULCH INTO SOIL SURFACE WITH TRACK MACHINE OR DISK HARROW SET STRIGHT-UP. MULCH MATERIAL SHALL BE "TUCKED" APPROXIMATELY 2"-3" INTO THE SOIL SURFACE. CHEMICAL MULCH BINDERS OR NETTING IN COMBINATION WITH THE STRAW, HAY OR WOOD FIBERS, SHALL BE USED WHERE DIFFICULT SLOPES DO NOT ALLOW HARROWNG BY MACHINES.

#### GRASS SEED MIXTURES

TEMPORARY COVERS PERMANENT COVERS PERENNIAL RYEGRASS: 20LBS./ACRE CREEPING RED FESCUE: 40LBS./ACRE ANNUAL RYEGRASS: 20LBS./ACRE CANADA BLUEGRASS: 20LBS./ACRE

#### SUGGESTED CONSTRUCTION SEQUENCE

THE FOLLOWING IS SUGGESTED SEQUENCE OF EVENTS:

- 1.) INSTALL ALL SOIL AND EROSION CONTROL MEASURES AS SHOWN ON THE PLAN.
- 2.) INSTALL THE DRAINAGE CULVERT, STONE ANTI-TRACKING PAD, AND THE DRIVEWAY.
- 3.) INSTALL UNDERGROUND CONDUITS FROM ROAD TO BUILDINGS.
- 4.) EXCAVATE FOR THE FOUNDATION, CONSTRUCT THE FOOTING AND FOUNDATION WALLS.

5.) BACKFILL FOUNDATION, AND PERFORM THE FINAL GRADING AROUND THE BUILDING.

- 6.) INSTALL THE ROOF AND STORM WATER DRAIN PIPES ASSOCIATED PIPING, AND
- INFILTRATION TRENCHES.
- 8.) PROVIDE PLANTINGS, LOAM AND SEED ALL DISTURBED ARES.

7.) INSTALL PAVEMENT ON DRIVEWAY AND PARKING AREAS.

9.) THE FOLLOWING IS AN ACCEPTABLE SEED MIXTURE THAT SHOULD BE USED: CANADA BLUEGRASS 20LBS./ACRE CREEPING RED FESCUE 40LBS./ACRE

#### SOIL EROSION CONTROL NARRATIVE

- 1.) THIS PROJECT CONSISTS OF THE DEVELOPMENT OF APPROXIMATELY 3.2 ACRES INTO A RECREATIONAL BUILDING, DRIVEWAY AND PARKING AREAS.
- 2.) EXPECTED TOTAL AREA TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 3.3
- 3.) THERE ARE MAJOR WETLAND AREAS AND SEVERAL INTERMITTENT WATERCOURSES ON THE SITE. EROSION AND SEDIMENTATION CONTROLS SHOULD BE IMPLEMENTED SPECIFICALLY TO PROTECT THESE AREAS. THESE MEASURES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND PER THE "2002 CONNECTICUT GUIDELINES FOR SOIL AND SEDIMENT CONTROL."
- 4.) THE PERMITS REQUIRED FOR THIS PROJECT INCLUDE A LOCAL INLAND WETLANDS PERMIT AND A LOCAL ZONING PERMIT.
- 5.) DETAIL FOR THE INSTALLATION OF THE PROPOSED EROSION AND SEDIMENTATION CONTROLS CAN BE FOUND ON THE "SEDIMENTATION AND EROSION DETAIL SHEET" WITHIN THESE PLANS.
- ) AT ( ) ( 6.) THE OWNER/DEVELOPER/CONTRACTOR ( WILL BE THE PERSON RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL SEDIMENTATION AND EROSION CONTROL, MEASURES.
- 7.) NO CHANGES TO THE SITE PLANS ARE PERMITTED UNLESS THEY HAVE BEEN PREVIOUSLY APPROVED BY THE ZONING ENFORCEMENT OFFICER AND THE TOWN ENGINEER OR THE DIRECTOR OF PUBLIC WORKS.

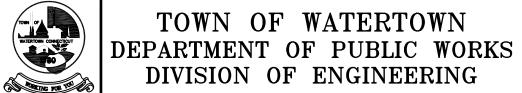
REVISE FOR SITE SPECIFIC INFORMATION

BY DATE DES BY: J.M.M. **REVISIONS** DRN BY: J.M.M. CHK BY: R.S. SCALE: APPD BY: R.C.

SUBMITTED BY: APPROVED BY:

DATE:

DATE:









DRAWING TITLE: