

Bid Addendum No. 2

February 7, 2023

Clarkstown Central School District – Masonry Reconstruction & Capital Project Phase 5

CSArch Project No. 151-2101 & 151-2201

SED Control No. Varies

This Bid Addendum No. 2 forms part of the Contract Documents and modifies the original bidding documents dated January 13, 2023. Bid Addendum No. 2 consists of (1) cover sheet page and (8) 30X42 drawing sheets.



Architect's Seal

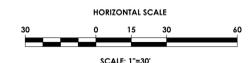
GENERAL INFORMATION

1. Bid Addendum No. 1 was issued to bidders on February 3, 2023.
2. Bid Addendum No. 2 was issued to bidders on February 7, 2023.

REVISIONS TO THE CONSTRUCTION DRAWINGS

1. **DELETE** original drawing sheet CNHS C102 – Site Plan.
2. **DELETE** original drawing sheet CNHS C103 – Existing Conditions & Demolition Plan.
3. **DELETE** original drawing sheet CNHS C104 – Utility Plan.
4. **DELETE** original drawing sheet CNHS C105 – Grading and Erosion Control Plan.
5. **DELETE** original drawing sheet CNHS C106 – Landscape & Lighting Plan.
6. **DELETE** original drawing sheet CNHS C202 – Details.
7. **DELETE** original drawing sheet CNHS C203 – Details.
8. **DELETE** original drawing sheet FFMS C101 – Site Plan.
9. **ADD** attached revised drawing sheet CNHS C102 – Site Plan.
10. **ADD** attached revised drawing sheet CNHS C103 – Existing Conditions & Demolition Plan.
11. **ADD** attached revised drawing sheet CNHS C104 – Utility Plan.
12. **ADD** attached revised drawing sheet CNHS C105 – Grading and Erosion Control Plan.
13. **ADD** attached revised drawing sheet CNHS C106 – Landscape & Lighting Plan.
14. **ADD** attached revised drawing sheet CNHS C202 – Details.
15. **ADD** attached revised drawing sheet CNHS C203 – Details.
16. **ADD** attached revised drawing sheet FFMS C101 – Site Plan.

END OF BID ADDENDUM NO. 2



LEGEND - DEMO:

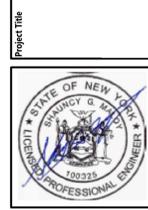
- PROPERTY BOUNDARY
- R.O.W.
- EXISTING CENTER LINE ROAD
- EXISTING BUILDING
- EXISTING EASEMENT LINE
- SETBACK
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING STORM SEWER & MH
- EXISTING WATER SERVICE & VALVE
- EXISTING SIGN
- EXISTING SANITARY SEWER AND MANHOLE
- EXISTING ELECTRIC LINE & POLE
- EXIST. LIGHT POLE
- EXIST. ELECTRIC MANHOLE
- EXIST. ELECTRIC HANDHOLE
- EXIST. GAS VALVE
- EXIST. WATER MAIN
- EXIST. ELECTRIC LINE
- EXISTING FEATURE TO BE REMOVED
- SAW CUT LIMITS
- EXISTING CONCRETE TO BE REMOVED
- EXISTING FULL DEPTH ASPHALT TO BE REMOVED
- EXISTING TREE TO BE REMOVED
- EXISTING VEGETATION TO BE REMOVED

NOTE:
NO WORK SHALL BE DONE IN THE ROW UNTIL THE CONTRACTOR APPLIES FOR AND RECEIVES A PERMIT FOR SUCH WORK FROM THE ROCKLAND COUNTY HIGHWAY DEPARTMENT

UNDERGROUND UTILITIES NOTE
1. FIELD VERIFY THE LOCATION, SIZE, ELEVATION, AND MATERIAL OF UNDER GROUND UTILITIES AS NOTED ON PLANS USING TEST PITS OR OTHER MEANS. PROVIDE INFORMATION TO THE ENGINEER PRIOR TO ORDERING STORM STRUCTURES ALLOWING ACCURATE MEASUREMENT AND IDENTIFICATION OF UTILITIES.



CLARKSTOWN CENTRAL SCHOOL DISTRICT
CLARKSTOWN NORTH HIGH SCHOOL
CAPITAL PROJECT PHASE 5

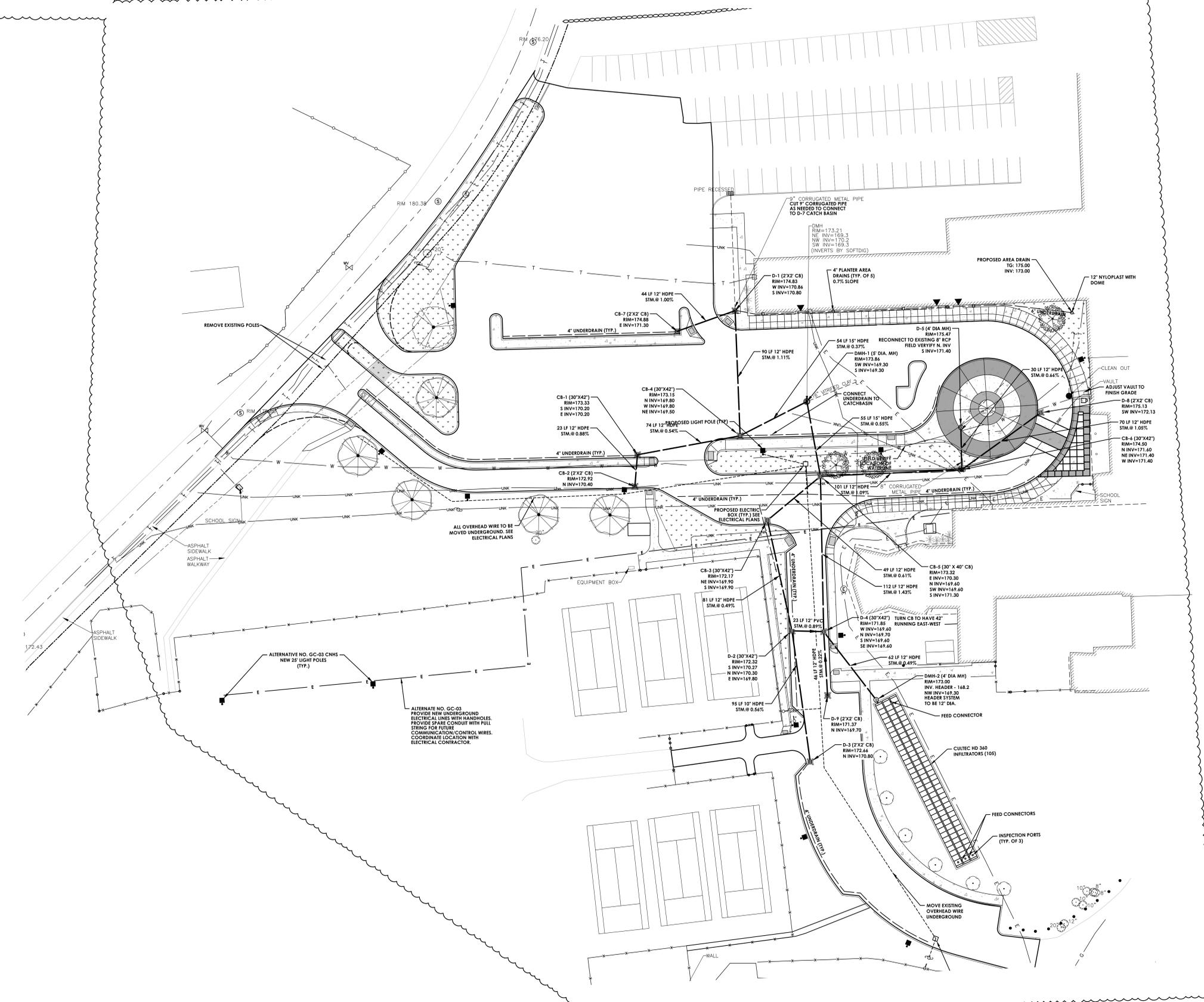
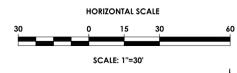


Project Title	
Drawn By:	BM
Checked By:	SM
Proj. #:	50-01-01-06-0-010-023
CSArch Proj. #:	151-2201
Construction Documents:	1/13/23

Sheet Title
EXISTING CONDITIONS & DEMOLITION PLAN

Sheet No.
CNHS
C103
CONSTRUCTION DOCUMENTS

1. ENTIRE C-104 SHEET REPLACED WITH BID ADDENDUM 1 C-104 SHEET. STORM SEWER SYSTEM REDESIGNED. SEE PLANS FOR CHANGES.



LEGEND - UTILITIES:

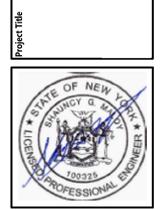
	PROPERTY BOUNDARY
	R.O.W.
	EXISTING CENTER LINE ROAD
	EXISTING BUILDING
	EXISTING FENCE
	EXISTING EASEMENT LINE
	PROPOSED EASEMENT LINE
	PROPOSED BUILDING
	PROPOSED CONCRETE
	PROPOSED SIGN
	PROPOSED LIGHT
	PROPOSED STORM SEWER INLET
	MH, CB & END SECTION
	EXISTING STORM SEWER & MH
	PROPOSED WATER SERVICE W/ HYDRANT & VALVE
	EXISTING WATER SERVICE & VALVE
	PROPOSED SANITARY SEWER AND MANHOLE
	EXISTING SANITARY SEWER AND MANHOLE
	EXIST. ELECTRIC LINE & POLE
	EXIST. LIGHT POLE
	EXIST. ELECTRIC MANHOLE
	EXIST. ELECTRIC HANDHOLE
	EXIST. GAS VALVE
	EXIST. GAS MAIN
	EXIST. WATER MAIN
	EXIST. ELECTRIC LINE
	PROPOSED UNDERGROUND ELECTRIC
	STORMSEWER HALF MODULE
	STORMSEWER FULL MODULE
	STORMSEWER ACCESS PLATE

If you excavate anywhere in New York State, except NYC or Long Island, call **Dig Safely New York** 1-800-962-7962. Website: www.DigSafelyNewYork.com

- UTILITY CONTRACTOR COORDINATION NOTES:**
- PRIOR TO THE START OF UTILITY INSTALLATION THE CONTRACTOR AND SUBCONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL UTILITY CONNECTIONS WITH MECHANICAL/ARCHITECTURAL DRAWINGS FOR INCLUDING BUT NOT LIMITED TO VERTICAL AND HORIZONTAL LOCATION, PENETRATIONS, AND SIZES. THE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROCEED WITH UTILITY INSTALLATION BY THE OWNERS ON-SITE REPRESENTATIVE UPON COMPLETION OF COORDINATION WITH CONTRACTORS AND PLANS.
 - THE DEVELOPER AND HIS/HER CONTRACTOR IS RESPONSIBLE FOR COORDINATING GAS ELECTRICAL, CABLE, TELEPHONE AND ANY OTHER UTILITIES NOT SPECIFICALLY SHOWN WITHIN THIS PLAN SET WITH APPROPRIATE AGENCY. PASSERO ASSOCIATES ASSUMES NO RESPONSIBILITY FOR THE DESIGN OR PERFORMANCE OF UTILITIES NOT SPECIFICALLY SHOWN WITHIN THIS PLAN SET.
 - PRIOR TO THE START OF UTILITY INSTALLATION THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY AND COORDINATE WITH EXISTING UTILITIES SHOWN ON THE PLANS AND REPORT ANY DISCREPANCIES TO THE DESIGN ENGINEER. THE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROCEED WITH UTILITY INSTALLATION BY THE OWNERS ON-SITE REPRESENTATIVE UPON COMPLETION OF EXISTING UTILITY VERIFICATION.
 - THE CONTRACTOR IS REQUIRED TO COORDINATE WITH SITE CONTRACTOR/PLUMBER & SEWER CONTRACTOR TO PREDETERMINE THE NECESSARY WYE & CLEANOUT LOCATION ON THE STORM SEWER SYSTEM. THE STORM SEWER SYSTEM IS RECOMMENDED AND MAY BE MODIFIED TO PROVIDE ADEQUATE ROOF DRAINAGE CONNECTIONS.
 - THRUST BLOCKS ON THE WATERMAIN ARE REQUIRED AT BENDS, TEES OR PLUGS. SEE DETAIL SHEETS FOR THRUST BLOCK DETAILS.

- STORM NOTES:**
- STORM SEWERS AND APPURTENANCES SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE LATEST REGULATIONS OF THE MUNICIPALITY.
 - PROPOSED STORM SEWER LATERAL MATERIAL: PVC 30R-33 8" MIN. SIZE & SHALL BE LAID AT A MINIMUM GRADE OF 1/4" PER FT. STORM SEWER MATERIAL: ADS HDPE 10" MIN.
 - FOUNDATION DRAINS SHALL BE CONNECTED TO STORM WATER SYSTEM VIA SUMP PUMPS. DOWNSPOUTS SHALL BE CONNECTED TO STORM SEWER WHERE APPLICABLE WHERE NOTED ON THE PLANS DOWNSPOUTS SHALL DISCHARGE TO SPLASH BLOCKS.
 - UPON COMPLETION OF SYSTEM INSTALLATION, THE MAIN SEWER SYSTEM AND LEADS TO STRUCTURES SHALL BE FLUSHED AND LAMPED OR MANDREL TESTED TO THE SATISFACTION OF THE MUNICIPALITY.

**CLARKSTOWN CENTRAL SCHOOL DISTRICT
CLARKSTOWN NORTH HIGH SCHOOL
CAPITAL PROJECT PHASE 5**

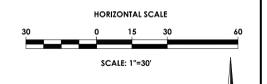
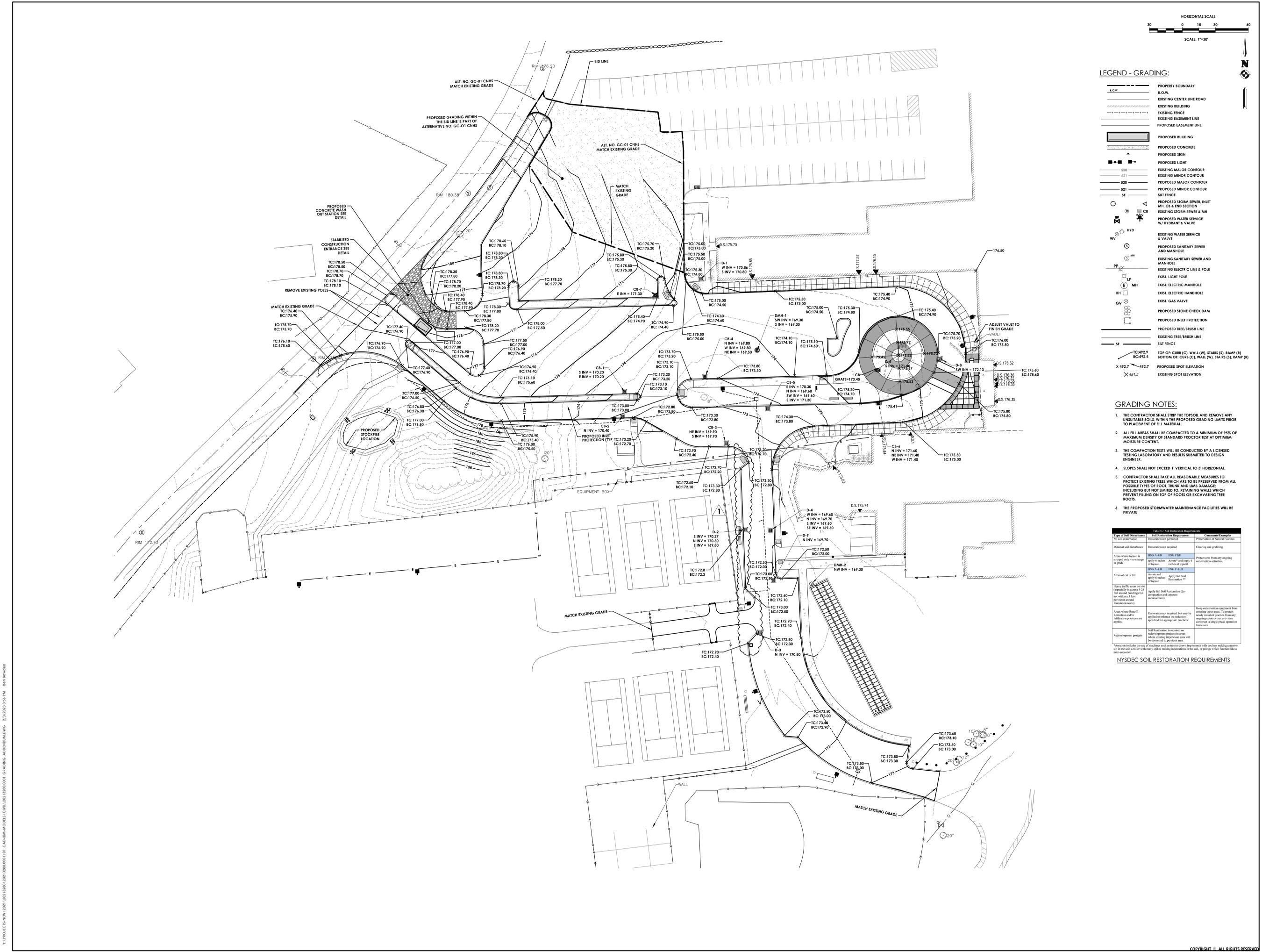


Drawn By:	BM
Checked By:	SOM
Proj. #:	SB-01-01-06-010-023
CSArch Proj. #:	151-2201
Construction Documents:	1/13/23

Sheet Title
UTILITY PLAN

Sheet No.
**CNHS
C 104**

CONSTRUCTION DOCUMENTS



LEGEND - GRADING:

---	PROPERTY BOUNDARY
---	R.O.W.
---	EXISTING CENTER LINE ROAD
---	EXISTING FENCE
---	EXISTING EASEMENT LINE
---	PROPOSED EASEMENT LINE
---	PROPOSED BUILDING
---	PROPOSED CONCRETE
---	PROPOSED SIGN
---	PROPOSED LIGHT
---	EXISTING MAJOR CONTOUR
---	EXISTING MINOR CONTOUR
---	PROPOSED MAJOR CONTOUR
---	PROPOSED MINOR CONTOUR
---	SILT FENCE
---	PROPOSED STORM SEWER INLET
---	MH, CB & END SECTION
---	EXISTING STORM SEWER & MH
---	PROPOSED WATER SERVICE
---	W/ HYDRANT & VALVE
---	EXISTING WATER SERVICE
---	& VALVE
---	PROPOSED SANITARY SEWER
---	AND MANHOLE
---	EXISTING SANITARY SEWER AND
---	MANHOLE
---	EXISTING ELECTRIC LINE & POLE
---	EXIST. LIGHT POLE
---	EXIST. ELECTRIC MANHOLE
---	EXIST. GAS VALVE
---	PROPOSED STONE CHECK DAM
---	PROPOSED INLET PROTECTION
---	PROPOSED TREE/BURSH LINE
---	EXISTING TREE/BURSH LINE
---	SILT FENCE
---	TC:492.9 BC:492.4
---	TOP OF CURB (C), WALL (W), STAIRS (S), RAMP (R)
---	BOTTOM OF CURB (C), WALL (W), STAIRS (S), RAMP (R)
---	X 492.7
---	PROPOSED SPOT ELEVATION
---	EXISTING SPOT ELEVATION

- GRADING NOTES:**
1. THE CONTRACTOR SHALL STRIP THE TOPSOIL AND REMOVE ANY UNSUITABLE SOILS. WITHIN THE PROPOSED GRADING LIMITS PRIOR TO PLACEMENT OF FILL MATERIAL.
 2. ALL FILL AREAS SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY OF STANDARD PROCTOR TEST AT OPTIMUM MOISTURE CONTENT.
 3. THE COMPACTION TESTS WILL BE CONDUCTED BY A LICENSED TESTING LABORATORY AND RESULTS SUBMITTED TO DESIGN ENGINEER.
 4. SLOPES SHALL NOT EXCEED 1' VERTICAL TO 3' HORIZONTAL.
 5. CONTRACTOR SHALL TAKE ALL REASONABLE MEASURES TO PROTECT EXISTING TREES WHICH ARE TO BE PRESERVED FROM ALL POSSIBLE TYPES OF ROOT, TRUNK AND LIMB DAMAGE, INCLUDING BUT NOT LIMITED TO, RETAINING WALLS WHICH PREVENT FILLING ON TOP OF ROOTS OR EXCAVATING TREE ROOTS.
 6. THE PROPOSED STORMWATER MAINTENANCE FACILITIES WILL BE PRIVATE.

Table 5.3 Soil Disturbance Requirements

Type of Soil Disturbance	Soil Restoration Requirement	Comments/Examples
No soil disturbance	Restoration not required	Preservation of Natural Features
Minimal soil disturbance	Restoration not required	Clearing and grubbing
Areas where topsoil is stripped only - no change in grade	HSU A,B,B; HSU C,A,D; Apply 6 inches "A" and apply 6 inches of topsoil	Protect area from any ongoing construction activities.
Areas of cut or fill	HSU A,B,B; HSU C,A,D; Apply full Soil Restoration**	
Heavy traffic areas on site (especially in a area 5-20 feet around building but not within a 3 foot perimeter around foundation walls)	Apply full Soil Restoration (de-compaction and compact enhancement)	
Areas where Runoff Reduction and/or infiltration practices are applied	Restoration not required, but may be applied to enhance the reduction specified for appropriate practices.	Keep construction equipment from covering these areas. To protect use to intended practice from any ongoing construction activities, construct a single phase operation fence area.
Re-development projects	Soil Restoration is required on redevelopment projects in areas where existing topsoil was not disturbed to previous use.	

NYSDC SOIL RESTORATION REQUIREMENTS

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 845.561.3179 www.csearch.com

CSARCH

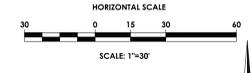
Clarkstown Central School District
 Clarkstown North High School
 Capital Project Phase 5

Project Title: GRADING AND EROSION CONTROL PLAN
 Sheet No.: CNHS C 105
 Construction Documents: 1/13/23

Drawn By: BM
 Checked By: SOM
 Proj. #: SB-01-06-0-010-023
 CSArch Proj. #: 151-2201
 Construction Documents: 1/13/23

NYSDC SOIL RESTORATION REQUIREMENTS

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Client

CLARKSTOWN CENTRAL SCHOOL DISTRICT
CLARKSTOWN NORTH HIGH SCHOOL
CAPITAL PROJECT PHASE 5

Project Title



Drawn By:	BM
Checked By:	SM
Proj. #:	58-01-01-06-0-010-023
CSArch Proj. #:	151-2201
Construction Documents:	1/13/23

LANDSCAPE & LIGHTING PLAN

Sheet No.
CNHS
C 106

CONSTRUCTION DOCUMENTS

LANDSCAPING NOTES:

- CONTRACTOR SHALL OBTAIN ALL NECESSARY STATE AND LOCAL PERMITS REQUIRED. ALL CONSTRUCTION SHALL CONFORM TO APPLICABLE TOWN AND STATE DESIGN STANDARDS AND CODES.
- IT IS THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE PRIOR TO BID SUBMITTAL TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND TO VERIFY THE SITE.
- STANDARDS SET FORTH IN THE "AMERICAN STANDARD FOR NURSERY STOCK", ANSI Z60.1 (LATEST EDITION) REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE THE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIALS DELIVERED AND INSTALLED ON THIS PROJECT.
- ALL PLANTS MUST BE HEALTHY, VIGOROUS AND FREE OF PESTS AND DISEASE.
- ALL PLANTS MUST BE HARDY UNDER CLIMATE CONDITIONS THAT EXIST AT THE PROJECT SITE AND GROWN AT A NURSERY IN THE SAME HARDINESS ZONE AS THE PROJECT LOCATION.
- ALL PLANTS MUST BE CONTAINER GROWN OR BALLED AND BURLAPPED AN MEET SIZE REQUIREMENTS AS INDICATED ON THE PLANT LIST.
- ALL TREES MUST BE STRAIGHT-TRUNKED, INJURY FREE, HAVE A FULL, SYMMETRICAL CROWN (HEAD) AND MEET ALL REQUIREMENTS SPECIFIED (E.G. SINGLE STEM, MULTI-STEM, HEAVY BRANCHED, ETC.).
- ANY PROPOSED DEVIATION TO THE LANDSCAPE PLAN MUST FIRST BE REVIEWED AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO THE INSTALLATION OF THE PROPOSED LANDSCAPING CHANGES.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS. THE BID PRICE SUBMITTED WILL ASSUME THAT ALL PLANT MATERIALS DELINEATED WILL BE SUPPLIED AND INSTALLED. ANY DISCREPANCIES IN THE QUANTITIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND/OR DESIGN LANDSCAPE ARCHITECT (OWNER'S REPRESENTATIVE) PRIOR TO COMPLETING A BID PRICE.
- ALL GRADING AND UTILITY WORK SHALL BE COMPLETED PRIOR TO INSTALLATION OF PLANT MATERIAL AND LANDSCAPE MULCH.
- THE FINAL LOCATION OF TREES AND OTHER LANDSCAPING SHALL BE DETERMINED IN THE FIELD BASED ON UTILITY STAKEOUT AND SHALL NOT CONFLICT WITH TRAFFIC SIGNS AND/OR UTILITIES. STAKE OUT SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO BEGINNING WORK.
- ANY CONCERNS RELATED TO SITE CONDITIONS AND/OR PLANT LOCATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- PLANTING BACKFILL MIXTURE: 4 PARTS TOPSOIL (ON-SITE OR IMPORTED), 1 PART PEAT MOSS, 1/2 PART WELL ROTTED MANURE AND 10 LBS. 5-0-5 PLANTING FERTILIZER, MIXED THOROUGHLY PER CUBIC YARD.
- MULCH ALL PLANT BEDS, AND INDIVIDUAL TREES IN LAWN AREAS WITH SHREDED HARDWOOD BARK MULCH TO A DEPTH OF THREE (3) INCHES UNLESS OTHERWISE SPECIFIED ON PLANTING DETAILS, OR AS DIRECTED BY THE LANDSCAPE ARCHITECT DUE TO SITE CONDITIONS.
- ANY PLANT WHICH TURNS BROWN, DEFOLIATES OR DIES PRIOR TO FINAL ACCEPTANCE BY THE OWNER, OR DESIGN LANDSCAPE ARCHITECT, SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH THE SAME PLANT SPECIES, VARIETY AND SIZE AS SPECIFIED ON THE PLANT SCHEDULE (LIST).
- THE CONTRACTOR SHALL MAINTAIN ALL PLANT MATERIALS AND LAWN AREAS UNTIL THE PROJECT HAS RECEIVED FINAL ACCEPTANCE BY THE OWNER OR OWNER'S REPRESENTATIVE. MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO: WATERING, MULCHING, FERTILIZING, SPRAYING (FUNGICIDE, PESTICIDE, ANTI-DIEBACK), AS WELL AS RAISING PLANTS THAT HAVE SETTLED TOO DEEP OR REQUIRE STRAIGHTENING.
- UPON COMPLETION AND ACCEPTANCE OF THE LANDSCAPING, THE LANDSCAPE MATERIALS SHALL BE GUARANTEED FOR TWO (2) YEARS. THE GUARANTEE SHALL BE INCLUSIVE OF ALL MATERIAL AND LABOR COSTS. AT THE END OF THE GUARANTEE PERIOD THE OWNER REPRESENTATIVE WILL INSPECT ALL PLANT MATERIALS. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REQUIRED REPLACEMENTS WITH PLANT MATERIALS MEETING THE SPECIFICATIONS (E.G. SPECIES, SIZE AND CHARACTERISTICS).
- ALL AREAS DISTURBED BY SITE GRADING AND/OR UTILITY INSTALLATION SHALL RECEIVE APPROVED TOPSOIL (BASED ON APPROVED SAMPLES SUBMITTED BY THE CONTRACTOR) AND SPREAD TO A DEPTH NOT LESS THAN SIX (6) INCHES AFTER COMPACTION. TOPSOIL PLACED FOR LAWN SHALL BE FINE GRADED, SEEDS, MULCHED AND WATERED UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED. THIS IS EXCLUDING FOUNDATION PLANT BEDS, AND ENTRANCE AREAS.
- LOCATIONS OF EXISTING BURIED UTILITIES SHOWN ON THE SITE PLAN ARE BASED UPON THE BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE TO CALL FOR A UTILITY STAKEOUT PRIOR TO COMMENCING PLANT INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, AND SITE APPURTENANCES WHICH OCCURS AS A RESULT OF LANDSCAPE INSTALLATION OPERATIONS.
- EXISTING TREES INDICATED TO BE REMOVED SHALL OCCUR UNDER THE SITE CONTRACT FOR THIS PROJECT. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR NEW PLANTINGS OR RESTORATION OF THE DISTURBED AREA (LAWS, PLANT BEDS, ISLANDS).
- PRE-EMERGENT HERBICIDE SHALL BE USED UNDER MULCH IN ALL TREE AND PLANT BED AREAS.
- ALL SHRUB BEDS ADJACENT TO LAWN AREAS SHALL HAVE A SPADED EDGE BORDER, UNLESS METAL EDGE, CONCRETE, OR OTHER BORDER IS SPECIFIED.

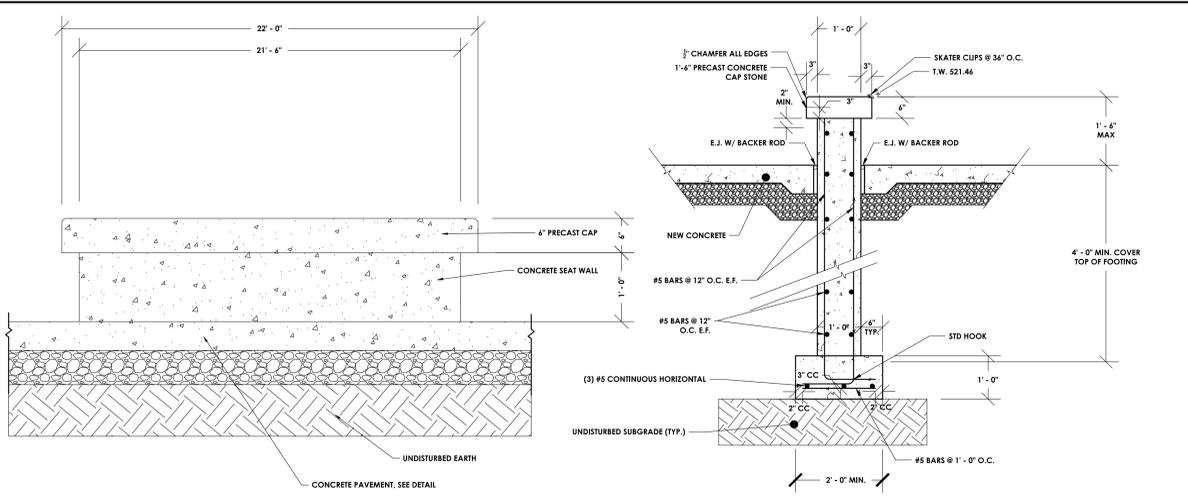
*Seed Mix B only when you have wet-occasional wet locations.

TOPSOIL AND SEEDING NOTES:

- THE EARTHWORK CONTRACTOR IS RESPONSIBLE FOR ROUGH GRADING AND RE-SPREADING TOPSOIL IN ALL TURF AND LANDSCAPE AREAS (BEDS AND ISLANDS).
- THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR FINE GRADING AND PREPARATION OF ALL LAWN AND LANDSCAPE AREAS.
- REMOVE ALL EXISTING VEGETATION DURING GRADING PROCESS.
- APPLY MINIMUM OF SIX (6) INCHES OF CLEAN TOPSOIL (IMPORTED OR SCREEN ON-SITE) AND FINE GRADE, LEAVING TOPSOIL IN A LOOSE AND FRIABLE CONDITION FOR SEEDING.
- IMMEDIATELY ADD OTHER ORGANIC AMENDMENTS AS NECESSARY TO ACHIEVE A SOIL pH BETWEEN 5.5 - 7.0.
- LANDSCAPE CONTRACTOR SHALL WORK OVER LAWN AREAS THAT HAVE REMAINED PARTIALLY INTACT, TOP DRESSING WITH SOIL SCARIFYING, AND SEEDING TO FORM A SMOOTH, FULL, EVEN LAWN, FREE OF BARE SPOTS, INDENTATIONS, AND WEEDS.
- SEEDING SHOULD BEGIN IMMEDIATELY UPON COMPLETION OF FINE GRADING. SEED SHOULD BE PRESSED INTO THE SOIL TO CREATE GOOD SEED-TO-SOIL CONTACT, NO DEEPER THAN THE THICKNESS OF THE SEED.
- FERTILIZING, APPLY 10-0-10 FERTILIZER EVENLY AT THE RATE OF 20 POUNDS PER 1000 SQ FT. NO FERTILIZER CONTAINING PHOSPHORUS IS PERMITTED ON SITE.
- SEED SHOULD BE APPLIED EITHER BY HAND BROADCASTING OR HYDRO SEEDING. TWO PASSES SHALL BE MADE IN PERPENDICULAR DIRECTIONS TO INSURE PROPER COVERAGE.
- LAWN SEED MIX
MIX A: SEEDING RATE: 4 LBS./1,000 SQ FT
LOW MAINTENANCE FESCUE LAWN
PREFERRED SEED: LOW MAINTENANCE GRASS SEED MIX OR APPROVED EQUAL
25% FIRELY HARD FESCUE
25% BIG HORN OF HARD SHEEP
20% INTRIGUE CHEWINGS FESCUE
20% QUATRO SHEEP FESCUE
10% MINOTAUR HARD FESCUE
MIX B: SEEDING RATE: 4 LBS./1,000 SQ FT
OCCASIONAL WET - WET LOCATIONS:
20% RED TOP
20% ALSAKI GRASS
10% ALUMIN BENTGRASS
20% VIRGINIA WILD RYEGRASS
20% FOX SEDGE
10% FOWL BLUEGRASS
- DRY APPLICATION MULCH
A. STRAW MULCH SHOULD BE APPLIED TO NEWLY SEEDED AREAS WITHIN 12 HOURS IF HYDRO MULCH IS NOT UTILIZED.
B. DRY APPLICATION, STRAW: STALKS OF OATS, WHEAT, RYE OR OTHER APPROVED CROPS WHICH ARE FREE OF NOXIOUS WEEDS. WEIGHT SHALL BE BASED ON A 15 PERCENT MOISTURE CONTENT.
C. DRY APPLICATION: WITHIN ONE DAY AFTER SEEDING, COVER THE SEEDED AREAS WITH A UNIFORM BLANKET OF STRAW MULCH AT THE RATE OF 100 POUNDS PER 1000 SQ FT OF SEEDED AREA.
A. COLORED WOOD CELLULOSE FIBER PRODUCT SPECIFICALLY DESIGNED FOR USE AS A HYDRO-MECHANICAL APPLIED MULCH. ACCEPTABLE PRODUCTS: CONWED HYDRO MULCH, CONWED FIBERS, 231 4TH STREET SW, HICKORY, NC
- FILL TANK WITH WATER AND AGITATE WHILE ADDING SEEDING MATERIALS. USE SUFFICIENT FERTILIZER, MULCH, AND SEED TO OBTAIN THE SPECIFIED APPLICATION RATE. ADD SEED TO THE TANK AFTER THE FERTILIZER AND MULCH HAVE BEEN ADDED. MAINTAIN CONSTANT AGITATION TO KEEP CONTENTS IN HOMOGENEOUS SUSPENSION. PROLONGED DELAYS IN APPLICATION OR AGITATION THAT MAY BE INJURIOUS TO THE SEED WILL BE THE BASIS OF REJECTION OF MATERIAL REMAINING IN TANK.
- DISTRIBUTE UNIFORMLY A SLURRY MIXTURE OF WATER, SEED, FERTILIZER, AND MULCH AT A MINIMUM RATE OF 57 GALLONS PER 1000 SQ FT (2500 GALLONS PER ACRE). THE OWNER AND PROJECT REPRESENTATIVE MAY ORDER THE AMOUNT OF WATER INCREASED IF DISTRIBUTION OF SEEDING MATERIALS IS NOT UNIFORM.

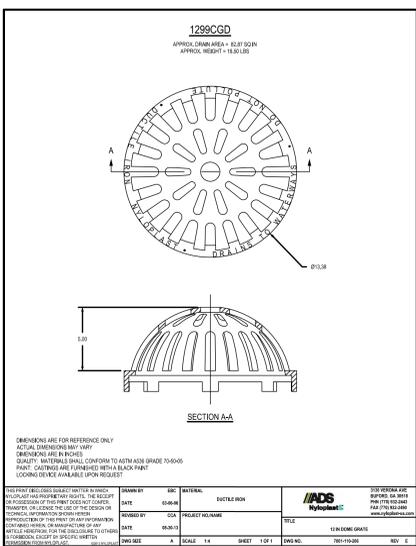
PLANT SCHEDULE

DECIDUOUS TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	MATURE HEIGHT
	AR	5	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE	3-3.5"	B&B	50-80'
	QC	1	QUERCUS COCCINEA	SCARLET OAK	3-3.5"	B&B	50-60'
FLOWERING AND ORNAMENTAL TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	MATURE HEIGHT
	AG	3	ACER GRISEUM	PAPERBARK MAPLE	2-2.5"	B&B	20-30'
	FC	7	PYRUS CALLERYANA	REDSPIRE PEAR	2-2.5"	B&B	20-30'

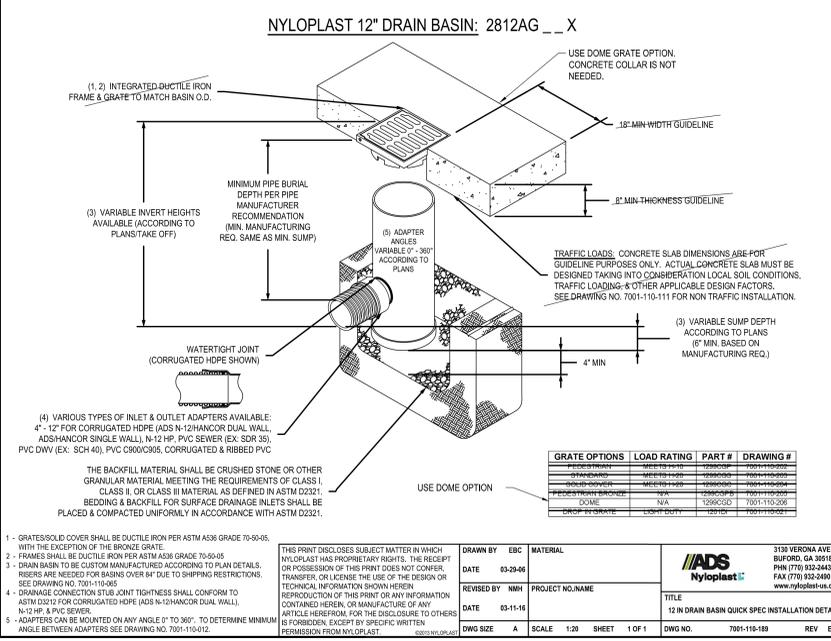


CONCRETE SEAT WALL ELEVATIONS, SECTION B-B
N.T.S.

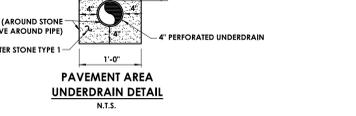
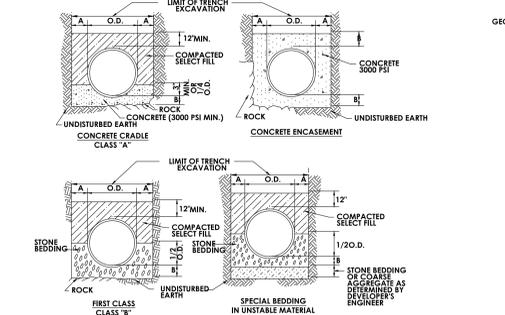
CONCRETE SEAT WALL SECTION A-A
N.T.S.



REVISION	DATE	BY	DESCRIPTION
1	03-29-06	EA	ISSUED FOR PERMIT
2	03-29-06	EA	REVISED PER COMMENTS
3	03-29-06	EA	REVISED PER COMMENTS
4	03-29-06	EA	REVISED PER COMMENTS

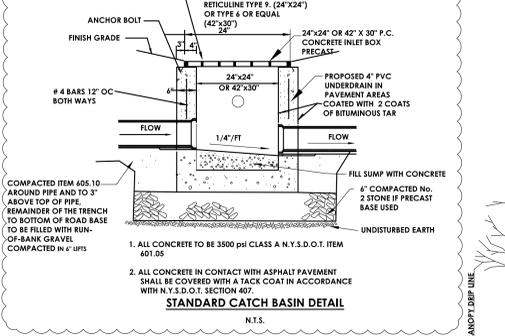


GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
BRONZE	150	1299GD	7001110-200
BRONZE	150	1299GD	7001110-200
BRONZE	150	1299GD	7001110-200
BRONZE	150	1299GD	7001110-200
BRONZE	150	1299GD	7001110-200
BRONZE	150	1299GD	7001110-200
BRONZE	150	1299GD	7001110-200
BRONZE	150	1299GD	7001110-200
BRONZE	150	1299GD	7001110-200
BRONZE	150	1299GD	7001110-200

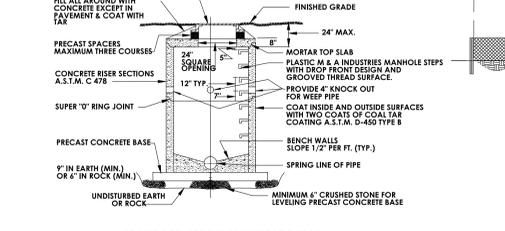


1. TRENCH BACKFILL SHALL BE AS REQUIRED BY THE HIGHWAY OWNER.
2. SELECT FILL SHALL BE SAND, GRAVEL, AND SIMILAR MATERIAL WHICH SHALL BE FREE FROM CLAY, LOAM, ORGANIC MATERIAL, DEBRIS, FIBROUS MATERIAL, AND SHALL CONTAIN ONLY SMALL AMOUNTS OF STONE, PEBBLES OR LUMPS OVER ONE INCH IN GREATEST DIMENSION BUT NONE OVER TWO INCHES IN GREATEST DIMENSION.
3. STONE BEDDING SHALL MEET APPROVED IMPORTED AGGREGATE MEETING THE REQUIREMENTS OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATION, JAN. 2, 1995 EDITION, AS REVISED, SUBSECTION 703.0201 (CRUSHED STONE, PRIMARY SIZE 1 OR A MIXTURE OF PRIMARY SIZES 1 AND 2).
4. COARSE AGGREGATE SHALL MEET APPROVED IMPORTED AGGREGATE MEETING THE REQUIREMENTS OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATION, JAN. 2, 1995 EDITION, AS REVISED, SUBSECTION 703.0202 (CRUSHED STONE, PRIMARY SIZE 3 AND/OR 4).
5. THE REQUIREMENTS TO SANITARY MAINLINE AND LATERAL PIPE INSTALLATION, AS WELL AS FORCE MAINS.

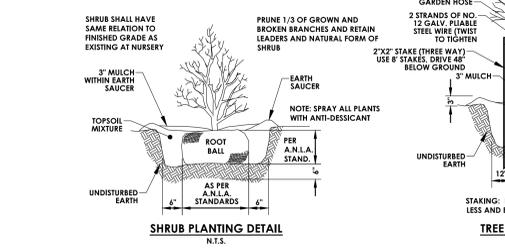
STORM SEWER/SANITARY SEWER BEDDING DETAILS
N.T.S.



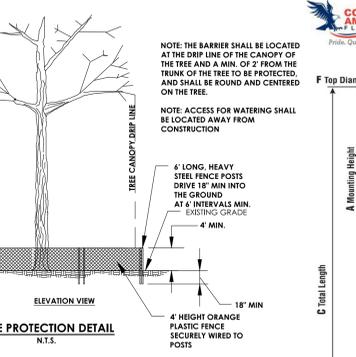
STANDARD TYPE S CROSSWALK DETAIL
N.T.S.



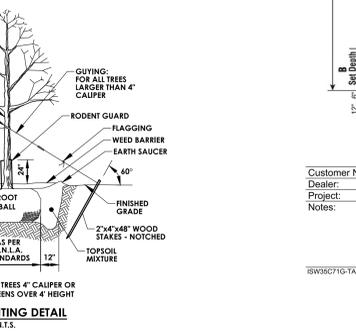
STANDARD STORM MANHOLE DETAIL
N.T.S.



SHRUB PLANTING DETAIL
N.T.S.



TREE PROTECTION DETAIL
N.T.S.



TREE PLANTING DETAIL
N.T.S.

Installation Owner's Manual
1601 / 1602
Barrier Gate Operator

RC Motor

DATE REVISED: 03-29-06
BY: EA
PROJECT NAME: [REDACTED]
DATE: 03-29-06
DWG NO: A
SCALE: 1/4" = 1'-0"
SHEET: 1 OF 1
DWG NO: 7001110-200
REV: E

DKS DOORING

DROP ARM GATE DETAIL
N.T.S.



FLAGPOLE BASE AND SLEEVE DETAIL
N.T.S.



BREAKAWAY SIGN POST DETAIL
N.T.S.

Concord American
Sovereignty Series
ISW - Internal with Winch
Wire Hoist
Ground Set Installation

ISW35C71 - ACL

ISW-GS

Customer Name: [REDACTED] Qty: 1
Dealer: [REDACTED] Location: [REDACTED]
Project: [REDACTED]
Notes: [REDACTED]

Specifications

- A. Mounting Height: 30'
- B. Set Depth: 3'-6"
- C. Total Length: 38'-6"
- D. Butt Diameter: 7"
- E. Wall Thickness: 156"
- F. Top Diameter: 3.5"

Flagpole Components on Anodized and Powder Coat
Flagpoles (excluding specified ornaments and Ball Trucks) will match flagpole color specified.

ISW35C71-G-TAB-COM-C1K-ACL



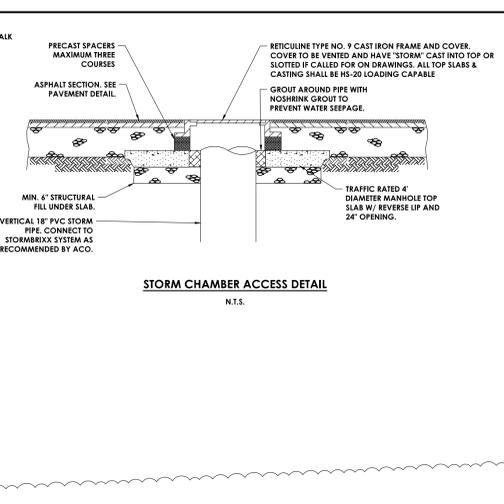
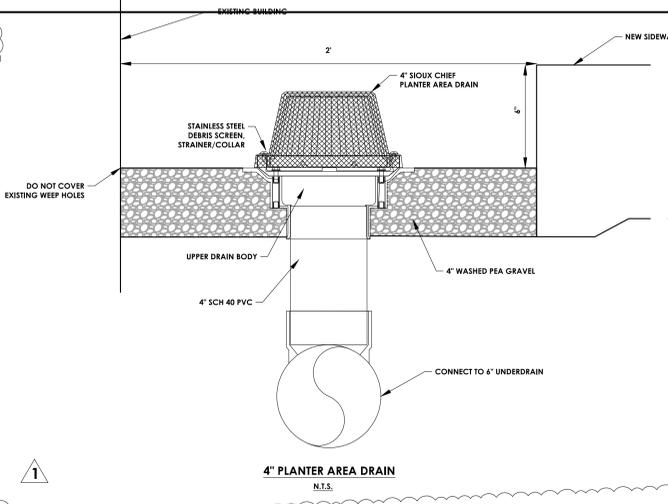
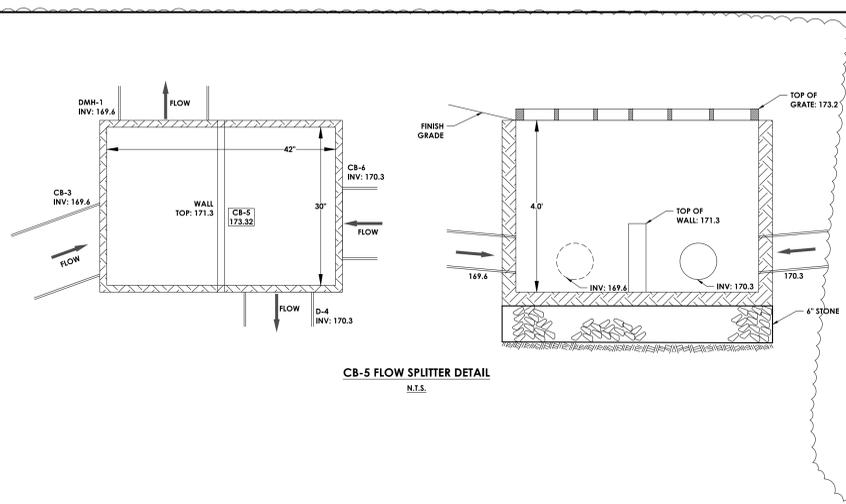
Drawn By:	RM
Checked By:	SGH
Proj. #:	50-01-0136-010-025
CSArch Proj. #:	151-2201
Construction Documents:	1/13/23

Sheet Title

DETAILS

Sheet No.
CNHS
C 203

CONSTRUCTION DOCUMENTS



CULTEC RECHARGER® 360HD PRODUCT SPECIFICATIONS

GENERAL:
CULTEC RECHARGER® 360HD CHAMBERS ARE DESIGNED FOR UNDERGROUND STORMWATER MANAGEMENT. THE CHAMBERS MAY BE USED FOR RETENTION, RECHARGING, DETENTION OR CONTROLLING THE FLOW OF ON-SITE STORMWATER RUNOFF.

CHAMBER PARAMETERS

- THE CHAMBERS SHALL BE MANUFACTURED IN THE U.S.A. OR CANADA BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
- THE CHAMBERS SHALL BE DESIGNED AND TESTED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". THE LOAD CONFIGURATION SHALL INCLUDE:
 - INSTANTANEOUS ASHTO DESIGN TRUCK LIVE LOAD AT MINIMUM COVER
 - MAXIMUM PERMANENT (50-YEAR) COVER LOAD
 - 1-WEEK PARKED ASHTO DESIGN TRUCK LOAD
- THE CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F3430-20 "STANDARD SPECIFICATION FOR CELLULAR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- THE INSTALLED CHAMBER SYSTEM SHALL PROVIDE RESISTANCE TO THE LOADS AND LOAD FACTORS AS DEFINED IN THE ASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12, WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS. THE STRUCTURAL DESIGN OF THE CHAMBERS SHALL INCLUDE THE FOLLOWING:
 - THE CREEP MODULUS SHALL BE 50-YEAR AS SPECIFIED IN ASTM F3430
 - THE MINIMUM SAFETY FACTOR FOR LIVE LOADS SHALL BE 1.75
 - THE MINIMUM SAFETY FACTOR FOR DEAD LOADS SHALL BE 1.95
- THE CHAMBER SHALL BE STRUCTURAL FGM INJECTION MOLDED OF BLUE VIRGIN HIGH MOLECULAR WEIGHT IMPACT-MODIFIED POLYPROPYLENE.
- THE CHAMBER SHALL BE ARCHED IN SHAPE.
- THE CHAMBER SHALL BE OPEN-BOTTOMED.
- THE CHAMBER SHALL BE JOINED USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLINGS.
- THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC RECHARGER 360HD SHALL BE 36 INCHES (915 mm) TALL, 60 INCHES (1525 mm) WIDE AND 30 INCHES (762 mm) LONG. THE INSTALLED LENGTH OF A JOINED RECHARGER 360HD SHALL BE 3.0 FEET (0.91 m).
- MULTIPLE CHAMBERS MAY BE CONNECTED TO FORM DIFFERENT LENGTH ROWS. EACH ROW SHALL BEGIN AND END WITH A SEPARATELY FORMED CULTEC RECHARGER 360HD END CAP. MAXIMUM INLET OPENING ON THE END CAP IS 24 INCH (600 mm) HOPE OR 30 INCH (762 mm) PVC.
- THE CHAMBER SHALL HAVE TWO SIDE PORTALS TO ACCEPT CULTEC HVLV™ FC-48 FEED CONNECTORS TO CREATE AN INTERNAL MANIFOLD. MAXIMUM ALLOWABLE PIPE SIZE IN THE SIDE PORTALS IS 10 INCH (250mm) HOPE OR 12 INCH (300mm) PVC.
- THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV™ FC-48 FEED CONNECTOR SHALL BE 12 INCHES (305 mm) TALL, 18 INCHES (406 mm) WIDE AND 49 INCHES (1245 mm) LONG.
- THE NOMINAL STORAGE VOLUME OF THE RECHARGER 360HD CHAMBER SHALL BE 10.0 FT³ / FT (328 m³ / m) - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF JOINED RECHARGER 360HD SHALL BE 36.66 FT³ / UNIT (1,038 m³ / UNIT) - WITHOUT STONE.
- THE NOMINAL STORAGE VOLUME OF THE HVLV™ FC-48 FEED CONNECTOR SHALL BE 0.913 FT³ / FT (0.265 m³ / m) - WITHOUT STONE.
- THE RECHARGER 360HD CHAMBER SHALL HAVE 7 CORRUGATIONS.
- THE CHAMBER SHALL BE MANUFACTURED IN A FACILITY EMPLOYING CULTEC'S QUALITY CONTROL AND ASSURANCE PROCEDURES.
- MAXIMUM ALLOWABLE COVER OVER THE TOP OF THE CHAMBER SHALL BE 12.0 FEET (3.66 m).

END CAP PARAMETERS

- THE CULTEC RECHARGER 360HD END CAP (REFERRED TO AS END CAP) SHALL BE MANUFACTURED IN THE U.S.A. OR CANADA BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
- THE END CAP SHALL BE STRUCTURAL FGM INJECTION MOLDED OF BLUE VIRGIN HIGH MOLECULAR WEIGHT IMPACT-MODIFIED POLYPROPYLENE.
- THE END CAP SHALL BE ARCHED IN SHAPE.
- THE END CAP SHALL BE OPEN-BOTTOMED.
- THE END CAP SHALL BE JOINED AT THE BEGINNING AND END OF EACH ROW OF CHAMBERS USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLINGS.
- THE END CAP SHALL HAVE 5 CORRUGATIONS.
- THE NOMINAL DIMENSIONS OF THE END CAP SHALL BE 36.5 INCHES (927 mm) TALL, 60 INCHES (1525 mm) WIDE AND 18 INCHES (457 mm) LONG. WHEN JOINED WITH A RECHARGER 360HD CHAMBER, THE INSTALLED LENGTH OF THE END CAP SHALL BE 16 INCHES (406 mm).
- THE NOMINAL STORAGE VOLUME OF THE END CAP SHALL BE 5.17 FT³ / FT (0.48 m³ / m) - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF AN INTERLOCKED END CAP SHALL BE 6.66 FT³ / UNIT (0.183 m³ / UNIT) - WITHOUT STONE.
- MAXIMUM INLET OPENING ON THE END CAP IS 24 INCH (600 mm) HOPE OR 30 INCH (762 mm) PVC.
- THE CHAMBER SHALL BE MANUFACTURED IN A FACILITY EMPLOYING CULTEC'S QUALITY CONTROL AND ASSURANCE PROCEDURES.
- THE END CAP SHALL PROVIDE RESISTANCE TO THE LOADS AND LOAD FACTORS AS DEFINED IN THE ASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12.

GENERAL NOTES

PIPE	A	B
6" [150 mm]	26.00" [660 mm]	0.75" [20 mm]
8" [200 mm]	24.00" [600 mm]	1.00" [25 mm]
10" [250 mm]	21.00" [525 mm]	1.25" [32 mm]
12" [300 mm]	18.00" [450 mm]	1.75" [45 mm]
15" [375 mm]	15.00" [375 mm]	2.00" [50 mm]
18" [450 mm]	12.00" [300 mm]	2.25" [58 mm]
24" [600 mm]	6.00" [150 mm]	2.50" [64 mm]

THE TYPICAL INVERT TABLE ABOVE IS BASED ON THE INSIDE DIAMETER OF STANDARD CORRUGATED PLASTIC PIPE. THE HEAVY DUTY END CAP HAS PRE-MADE TRIM LINES FOR PIPE DIAMETERS 12" (300mm), 15" (375mm), 18" (450mm) AND 24" (600mm). PIPES OF ANY SIZE AND MATERIAL UP TO 24" (600mm) MAY BE PLACED AT CUSTOM LOCATIONS AND CUSTOM INVERTS. 30" (762 mm) SMOOTH WALL SDR-35 PVC PIPE MAY BE USED AT THE BOTTOM OF THE END CAP. THE CROWN OF THE PIPE MUST REMAIN A MINIMUM OF 3" (75mm) FROM THE EDGE OF THE HEAVY DUTY END CAP.

