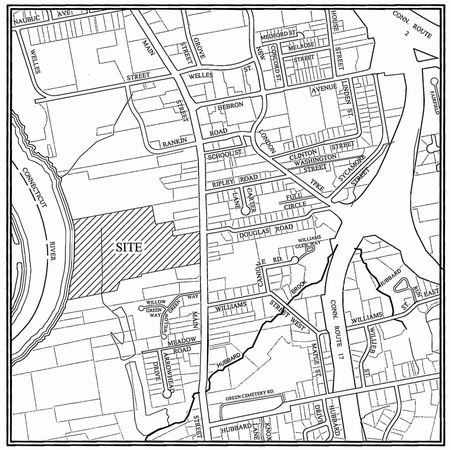
TOWN OF GLASTONBURY
ENGINEERING DEPARTMENT
TOWN HALL / ACADEMY COMPLEX
PW-0908
located at
2155 MAIN STREET
GLASTONBURY, CONNECTICUT

SHEET INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	EXISTING CONDITIONS
3	SITE LAYOUT
4	DEMOLITION
5	SITE GRADING
6	DRAINAGE/UTILITIES
7	EROSTION AND SEDIMENTATION CONTROL
8	DETAILS AND SPECIFICATIONS
9	DETAILS AND SPECIFICATIONS
10	LANDSCAPING PLAN
11	LIGHTING PLAN
12	IRRIGATION PLAN



LOCATION MAP
SCALE: 1"=1000'

DECEMBER 2016

RICHARD J. JOHNSON
TOWN MANAGER

DANIEL A. PENNINGTON
TOWN ENGINEER / MANAGER OF PHYSICAL SERVICES

Town of Glastonbury PROJECT/APPLICANT	Reserved Land Zone ZONE
2155 & 2143 Main Street PROJECT ADDRESS	Town Hall & Academy Building
Section 12 SPECIAL PERMIT SECTION	TPZ CHAIRPERSON
January 17, 2017 DATE SPECIAL PERMIT APP'D	DIRECTOR OF COMMUNITY DEVELOPMENT
FILE NO.	

THIS MAP PRODUCED BY
ORIGINAL INK DRAWING ON
POLY FILM OR LINEN
TOWN OF GLASTONBURY
2155 MAIN STREET
GLASTONBURY, CT 06033

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STATE OF CONNECTICUT — DANIEL A. PENNINGTON — No. 20101 — LICENSED PROFESSIONAL ENGINEER

PW-0908

NO.	DESCRIPTION	DATE
3.	ISSUED FOR LANDSCAPING BID	5/5/2017
2.	CONDITIONS OF APPROVAL	3/28/2017
1.	ISSUED FOR PERMITTING	12/16/2016

DRAWING ISSUE STATUS

TOWN OF GLASTONBURY — CAD — ENGINEERING

SCALE: AS SHOWN	DATE:
DRAWN BY: C.F.S.	11/11/2016
CHECKED BY: S.M.B.	11/11/2016
APPROVED BY: D.A.P.	11/11/2016
ST. FILE:	

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GRID NORTH

TOWN OF GLASTONBURY — INCORPORATED 1693 — SEAL — STATE OF CONNECTICUT

PRELIMINARY

PLAN DEPICTING
TOWN HALL / ACADEMY COMPLEX
FOR THE
DRIVE & PARKING RECONFIGURATION
LOCATED AT
2155 / 2143 MAIN STREET
GLASTONBURY, CONNECTICUT

SHEET NO. 1 OF 12

FILE: H:\DWG\Streets\Main St\PW-0908 ACADEMY SCHOOL SITE IMPROVEMENTS\TownHall-Academy-Filing-2017.dwg USER: Charles Steinhilper DATE: 5/4/2017

NOTE:

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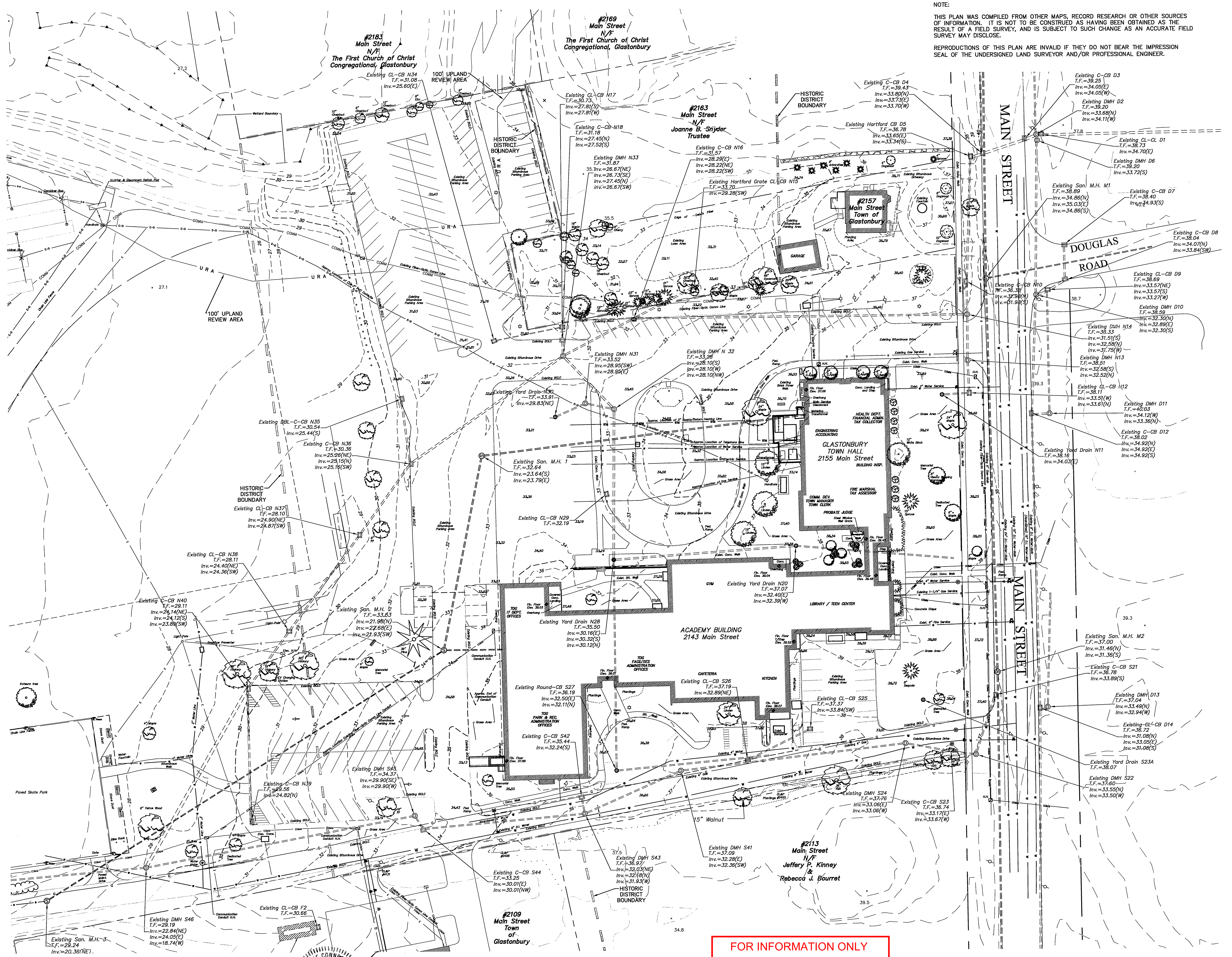

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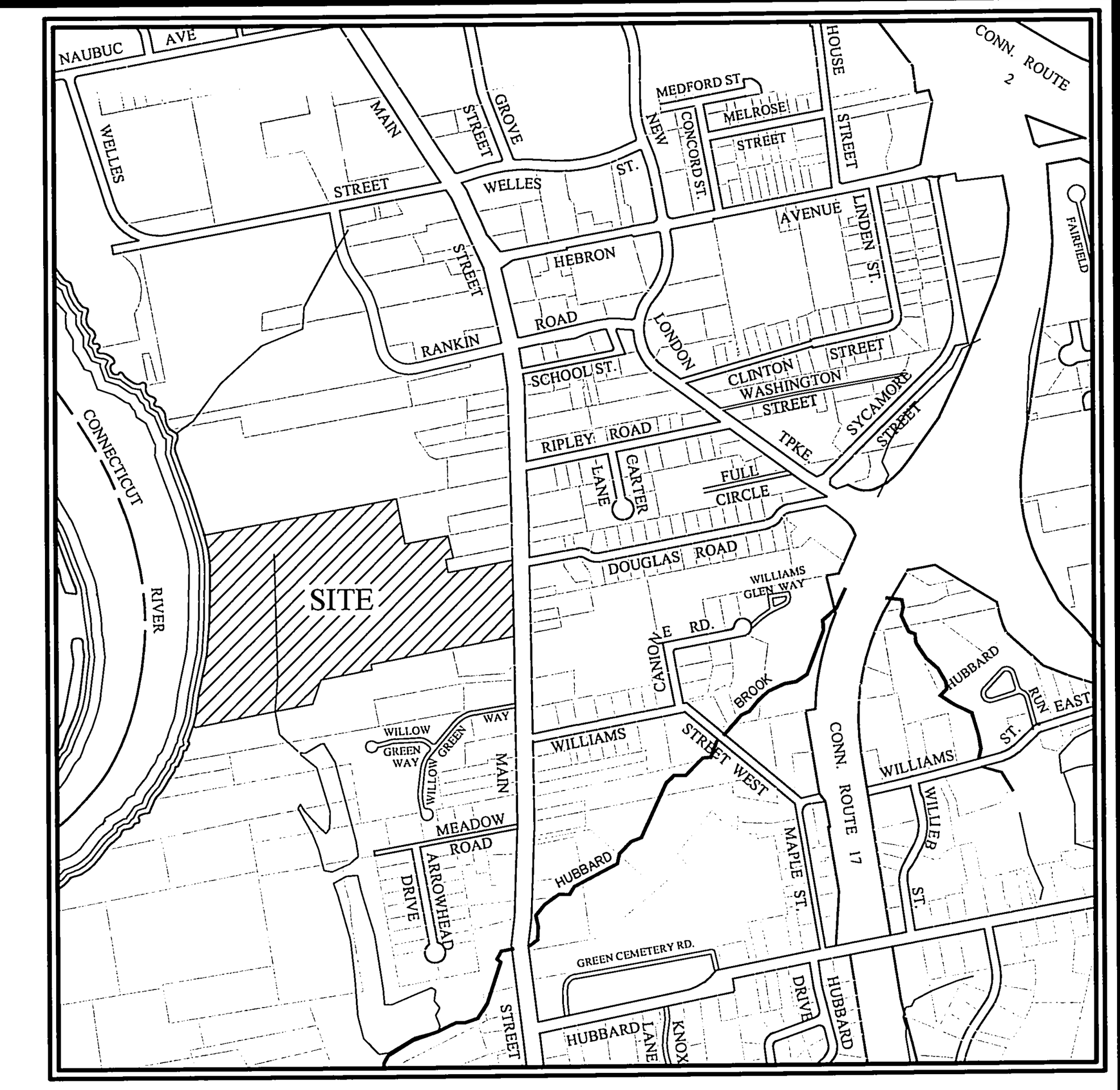

LOCATION MAP

SCALE: 1" = 1000'

Town of Glastonbury PROJECT/APPLICANT	Reserved Land Zone ZONE
2155 & 2143 Main Street PROJECT ADDRESS	Town Hall & Academy Building
Section 12 SPECIAL PERMIT SECTION	TPZ CHAIRPERSON
January 17, 2017 DATE SPECIAL PERMIT APP'D	DIRECTOR OF COMMUNITY DEVELOPMENT
FILE NO.	

SURVEY NOTES:

1. LOCATION OF FEATURES AND CONTOUR DATA DEPICTED HEREON WHERE ACQUIRED THROUGH FIELD SURVEY CONDUCTED 5-2011.
2. THERE IS NO BOUNDARY/DETERMINATION OPINION.
3. NOT ALL IMPROVEMENTS ARE DEPICTED HEREON.
4. HORIZONTAL CONTROL IS BASED ON THE CONNECTICUT GEODETIC SURVEY STATE PLANE COORDINATES, NORTH AMERICAN DATUM OF 1983 - (NAD83).
5. ELEVATIONS AND VERTICAL CONTROL IS BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 - (NAVD88).
6. REFERENCE FOR UTILITY INFO FROM THE FOLLOWING:

a. SITE PLAN LYONS AND MATHER ARCHITECTS BRIDGEPORT CONNECTICUT ACADEMY SCHOLL CONVERSION FOR JUNIOR HIGH SCHOOL DATE 1 JUNE 1960 JOB NO. 804
b. VARIOUS SITE, ELECTRICAL, MECHANICAL-HEATING & PLUMBING PLANS PROJECT 7202 ACADEMY SCHOOL RENOVATIONS 2141 MAIN STREET GLASTONBURY, CONNECTICUT DATE NOV 5 73 STECKER AND COLAVECCHIO ARCHITECTS, INC. 800 COTTAGE GROVE ROAD BLOOMFIELD, CONNECTICUT 06002 BEMIS FREEMAN SIPALA CONSULTING ENGINEERS

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2155 MAIN STREET
GLASTONBURY, CT 06033

STATE OF CONNECTICUT DANIEL A. PENNINGTON No. 20101 LICENSED PROFESSIONAL ENGINEER

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GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

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PW-0908

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NO.	DESCRIPTION	DATE

TOWN OF GLASTONBURY CAD ENGINEERING

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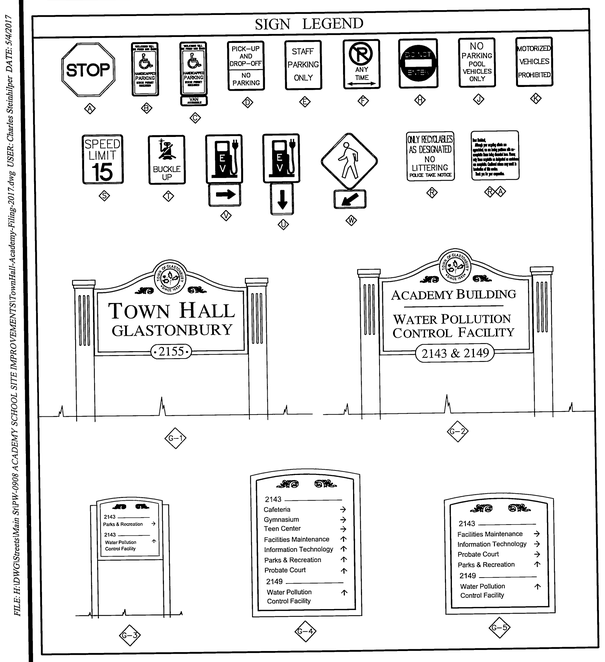
GRID NORTH

TOWN OF GLASTONBURY INCORPORATED 1693 STATE OF CONNECTICUT U.S.A. SEAL

PLAN DEPICTING EXISTING CONDITIONS
TOWN HALL / ACADEMY COMPLEX
DRIVE & PARKING RECONFIGURATION
LOCATED AT
2155 / 2143 MAIN STREET
GLASTONBURY, CONNECTICUT

SHEET NO. 2 OF 12

SIGN LEGEND



LIGHTING NOTE:

PARKING AREA AND WALKWAY LIGHTING FIXTURE TO BE STERNBERG LIGHTING MODEL: HISTORIC 6130LED, BLACK FINISH, CSA LENS.

PARKING AREA LIGHT FIXTURES TO BE MOUNTED TO 12' OR 14' POLE AS NOTED. WALKWAY LIGHT FIXTURE TO BE MOUNTED TO 10' POLE.

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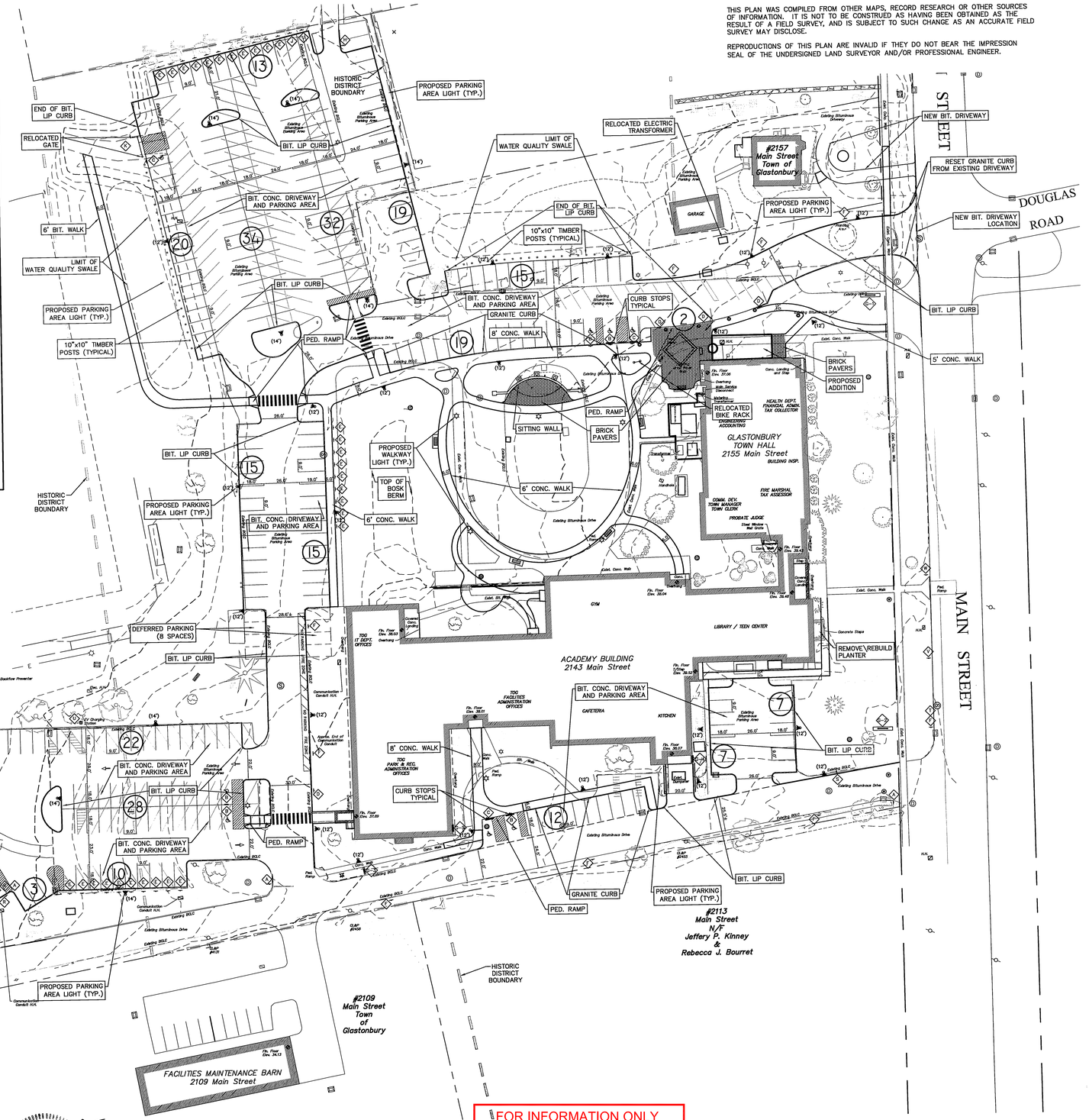

BUILDING AREA CALCULATION FOR PARKING ANALYSIS:

SQUARE FOOTAGE FOR THE TOWN HALL BUILDING ARE AS FOLLOWS:

LOWER LEVEL – TAX, ASSESSOR, TOWN CLERK	= 6,992 SF
MIDDLE LEVEL – FINANCE, ACCOUNTING, MANAGERS	= 8,842 SF
UPPER LEVEL – HEALTH, BUILDING, ENGINEERING	= 7,750 SF
TOTAL BUILDING – TOWN HALL	= 23,584 SF

SQUARE FOOTAGE FOR THE ACADEMY COMPLEX BUILDING ARE AS FOLLOWS:

PARK & REC., ACTIVITY ROOMS	= 5,616 SF
IT, CONFERENCE ROOM, WEST OFFICES	= 4,060 SF
FACILITIES, CONFERENCE ROOM, PROBATE	= 5,768 SF
GYM, CAFETERIA, KITCHEN	= 12,896 SF
TEEN CENTER	= 4,004 SF
ACADEMY LIBRARY (NOT INCLUDED)	= 0 SF
TOTAL BUILDING – ACADEMY COMPLEX	= 32,344 SF
PROPOSED TOWN HALL ADDITION	= 1,000 SF

NOTE: SQUARE FOOT AREAS DO NOT INCLUDE STORAGE AREAS, STAIRWAYS, ELEVATORS, UTILITY ROOMS AND OTHER NON PUBLIC AREAS AS PER ZONING REGULATIONS.

PARKING ANALYSIS:

PARKING CALCULATIONS ARE COMPUTED BASED ON COMBINED SQUARE FOOTAGE FOR THE ENTIRE MUNICIPAL BUILDING COMPLEX AND ARE AS FOLLOWS:

NET FLOOR AREAS FOR PARKING CALCULATIONS:	
#2155 TOWN HALL OFFICE BUILDING	= 23,584 SF
#2143 ACADEMY BUILDING	= 32,344 SF
PROPOSED ADDITION	= 1,000 SF
TOTAL BUILDING SF	= 56,928 SF

TOTAL REQUIRED PARKING SPACES AT 1 SPACE PER 200 SF OF BUILDING AREA; 56,928 / 200 = 284.6, SAY 285 SPACES REQUIRED.

TOTAL PROVIDED PARKING SPACES	= 277
TOTAL DEFERRED PARKING SPACES	= 8
TOTAL PARKING SPACES SHOWN	= 285

SEE CHART BELOW.

ADA PARKING REQUIREMENT FOR PARKING LOTS WITH 201–300 SPACE REQUIRES – 7 HANDICAPPED SPACES.

TOTAL OF ADA COMPLIANT SPACES = 9
SEE CHART BELOW.

Parking Area Designation	Existing Site	Proposed
Town Hall - Driveway Parking	24	36
Town Hall - Traffic Circle	13	N/A
Town Hall - Rear Parking Area	79	118
Bosk Area Parking	32	30
Parks/Skate Park Parking	43	67
Facilities Office	7	12
Teen Center	16	14
Deferred Parking (Bosk Area)	0	8
Total Parking Spaces	**214**	**285**
Total Designated HC Spaces	7	9

Town of Glastonbury	Reserved Land Zone
PROJECT/APPLICANT	ZONE
2155 & 2143 Main Street	Town Hall & Academy Building
PROJECT ADDRESS	
Section 12	
SPECIAL PERMIT SECTION	TPZ CHAIRPERSON
January 17, 2017	
DATE SPECIAL PERMIT APP'D	DIRECTOR OF COMMUNITY DEVELOPMENT
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FOR INFORMATION ONLY

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GRID NORTH

PLAN DEPICTING SITE LAYOUT
TOWN HALL / ACADEMY COMPLEX
DRIVE & PARKING RECONFIGURATION
LOCATED AT
2155 / 2143 MAIN STREET
GLASTONBURY, CONNECTICUT

SHEET NO. 3 OF 12

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PAVEMENT AND BASE TO BE COMPLETELY REMOVED

HISTORIC DISTRICT BOUNDARY

AREA OF PAVEMENT TO BE RECLAIMED PRIOR TO FULL-DEPTH RECONSTRUCTION

REMOVE TREES, STUMPS & DEBRIS, GRADE FOR PARKING SUBGRADE

RELOCATE TRANSFORMER AND REMOVE CONC. SLAB

REMOVE VINES AND SELECTIVELY PRUNE AND REMOVE TREES

REMOVE DRAINAGE STRUCTURE

RELOCATE OR REMOVE UTILITY & GUY POLES

#2157 Main Street Town of Glastonbury

REMOVE ALL PINE TREES

PAVEMENT TO BE RECLAIMED, REGRADED AND PAVED

PAVEMENT AND BASE TO BE COMPLETELY REMOVED

CLEAR, GRUB, AND STRIP TOPSOIL FOR FULL DEPTH PAVEMENT CONSTRUCTION

DOUGLAS ROAD

REMOVE DRAINAGE STRUCTURES

REMOVE CRAB APPLE TREES

SIDEWALK TO BE COMPLETELY REMOVED

PAVEMENT AND BASE TO BE COMPLETELY REMOVED

GLASTONBURY TOWN HALL 2155 Main Street

REMOVE OR TRIM SHRUBS

REMOVE WHITE BIRCH TREE

PROTECT TREES

REMOVE TREES

REMOVE ABANDONED 2,000± GAL. FUEL OIL TANK AND REMEDIATE IF NEEDED

REMOVE SPRUCE TREE

REMOVE OR TRIM SHRUBS

REMOVE DRAINAGE STRUCTURE

PROTECT TREES

REMOVE BASKETBALL HOOPS

REMOVE PULL-UP BARS

REMOVE EVERGREENS

REMOVE PLANTER

REMOVE RETAINING WALL & STAIRS

REMOVE ABANDONED 2,000± GAL. FUEL OIL TANK AND REMEDIATE IF NEEDED

ACADEMY BUILDING 2143 Main Street

SIDEWALK TO BE COMPLETELY REMOVED

PAVEMENT AND BASE TO BE COMPLETELY REMOVED

REMOVE TREE

REMOVE EVERGREENS

PROTECT TREE

CLEAR, GRUB, AND STRIP TOPSOIL FOR FULL DEPTH PAVEMENT CONSTRUCTION

PAVEMENT AND BASE TO BE COMPLETELY REMOVED

PROTECT TREES

Paved Skate Park

REMOVE DRAINAGE STRUCTURE

PAVEMENT TO BE RECLAIMED, REGRADED AND PAVED

15" Walnut

#2113 Main Street N/F Jeffery P. Kinney & Rebecca J. Bourret

#2109 Main Street Town of Glastonbury

FACILITIES MAINTENANCE BARN 2109 Main Street

HISTORIC DISTRICT BOUNDARY

FOR INFORMATION ONLY

SITE DEMOLITION KEY:

- AREA OF PAVEMENT TO BE RECLAIMED PRIOR TO FULL-DEPTH RECONSTRUCTION.
- AREA OF PAVEMENT TO BE RECLAIMED AND REGRADED.
- AREA OF PAVEMENT TO BE RECLAIMED AND COMPLETELY REMOVED.
- AREA OF SIDEWALK TO BE COMPLETELY REMOVED.
- AREAS OF FULL DEPTH PAVEMENT CONSTRUCTION TO BE CLEARED, GRUBBED, AND HAVE TOPSOIL STRIPPED.
- STORM DRAINAGE LINES TO BE REMOVED OR ABANDONED IN PLACE.
- PROTECT TREES WITH CONSTRUCTION FENCE.

Town of Glastonbury PROJECT/APPLICANT	Reserved Land Zone ZONE
2155 & 2143 Main Street PROJECT ADDRESS	Town Hall & Academy Building
Section 12 SPECIAL PERMIT SECTION	TPZ CHAIRPERSON
January 17, 2017 DATE SPECIAL PERMIT APP'D	DIRECTOR OF COMMUNITY DEVELOPMENT
FILE NO.	

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STATE OF CONNECTICUT DANIEL A. PENNIMAN 21001 LICENSED PROFESSIONAL ENGINEER

GRAPHIC SCALE

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GRID NORTH

TOWN OF GLASTONBURY INCORPORATED 1693 SEAL 1935 CONNECTICUT U.S.A.

PLAN DEPICTING DEMOLITION
TOWN HALL / ACADEMY COMPLEX
DRIVE & PARKING RECONFIGURATION
LOCATED AT
2155 / 2143 MAIN STREET
GLASTONBURY, CONNECTICUT

SHEET NO. 4 OF 12

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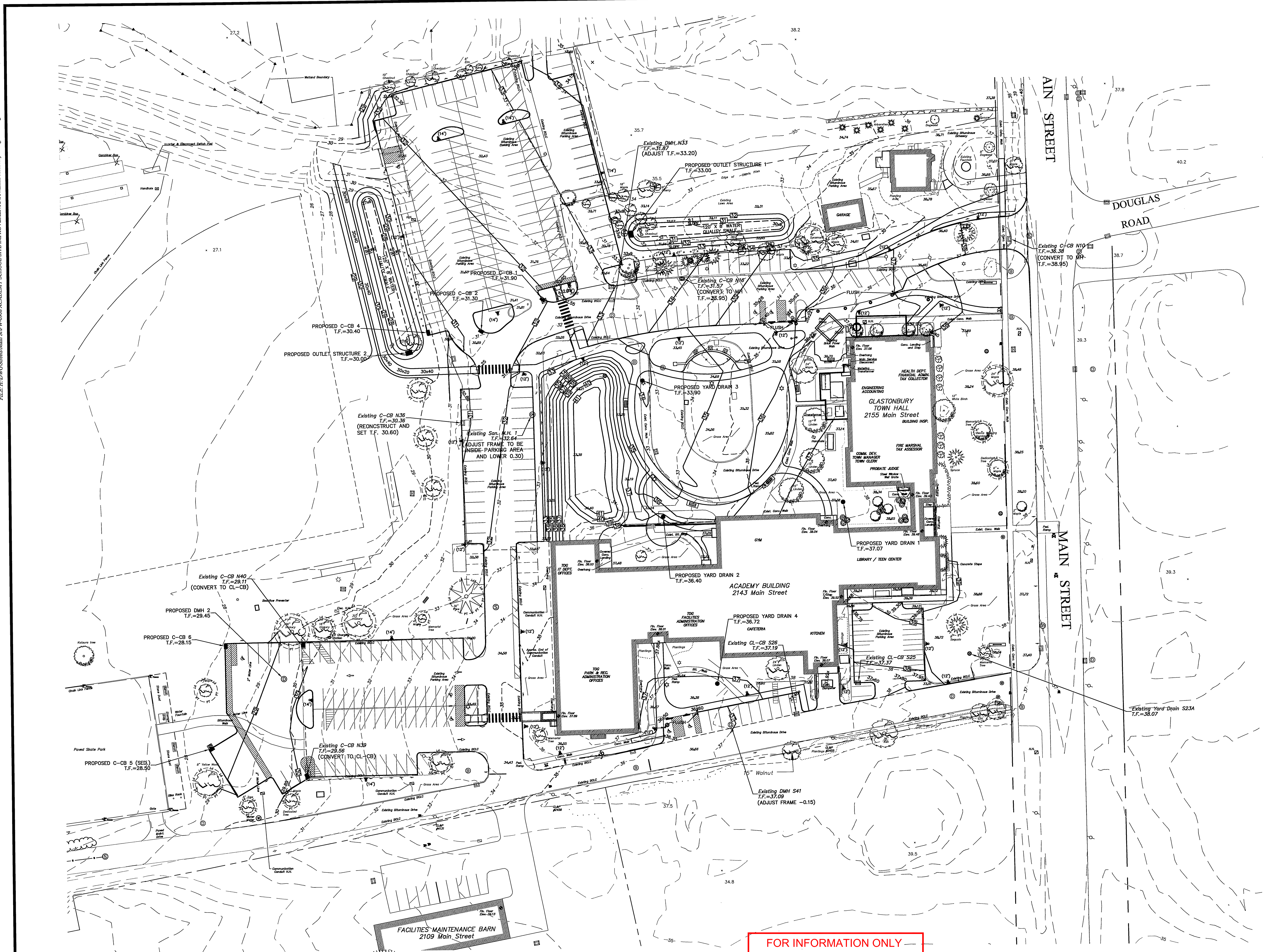

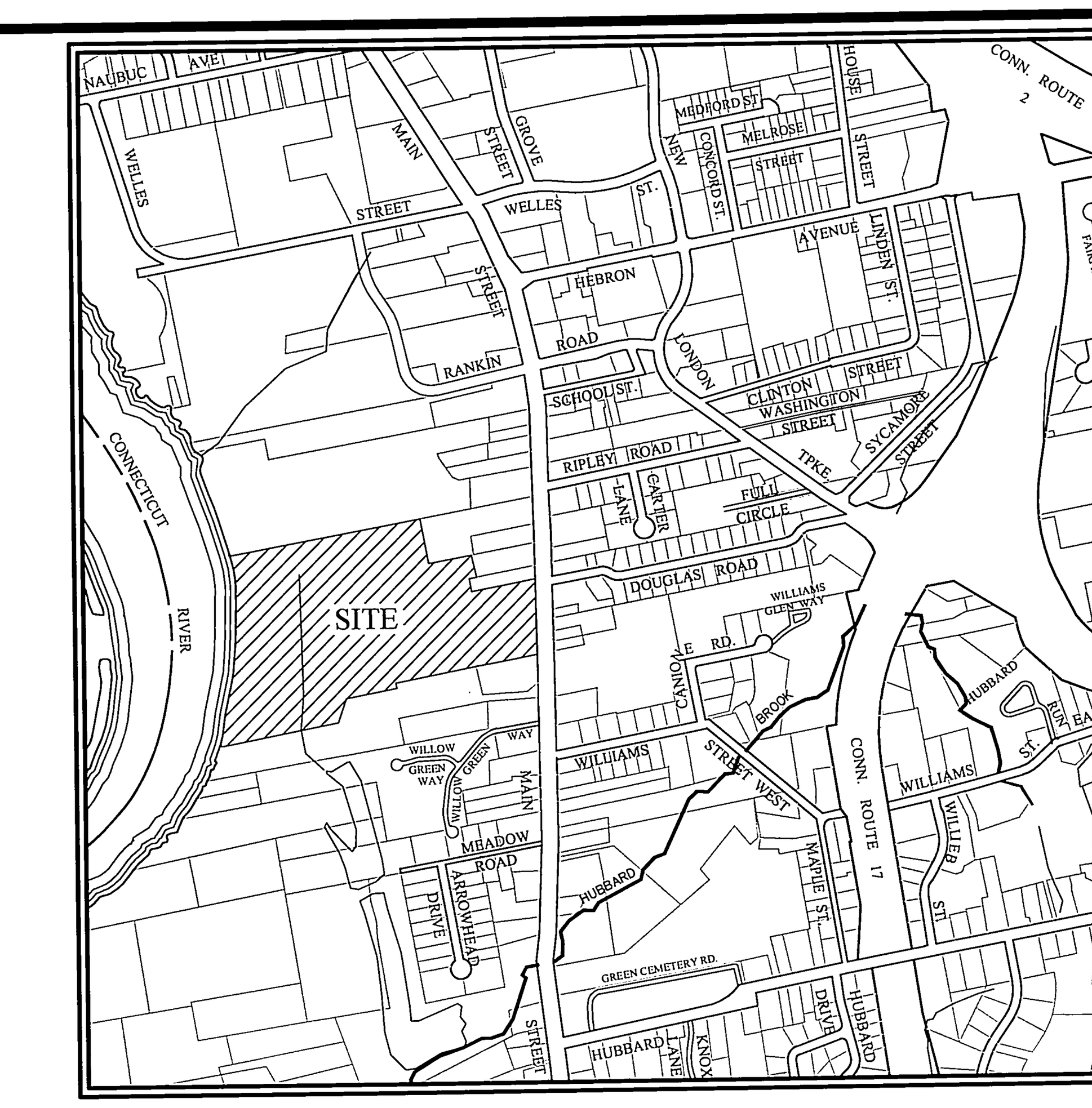

LOCATION MAP

SCALE: 1" = 1000'

Town of Glastonbury PROJECT/APPLICANT	Reserved Land Zone ZONE
2155 & 2143 Main Street PROJECT ADDRESS	Town Hall & Academy Building
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PLAN DEPICTING SITE GRADING
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SHEET NO. 5 OF 12

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TH #1

0"	-	10 ¾"	Topsoil/Fine Sandy Loam
10 ¾"	-	25 ¼"	Fine Sand
25 ¼"	-	96"	Grey, Brown Medium Sand
96"	-	108"	Light Brown Sand/Wet
Depth of Hole	-	108"	
No Mots/Water			

TH #2

0"	-	25 ¼"	Topsoil/Fine Sandy Loam
25 ¼"	-	37 ¼"	Dense Compact Orange Medium Sand
37 ¼"	-	81 ¾"	Light Brown Sand
Depth of Hole	-	81 ¾"	
Groundwater @	-	60"	

TH #3

0"	-	10"	Topsoil/Fine Sandy Loam
10"	-	22"	Brown Very Fine Sandy Loam
22"	-	29"	Buried Topsoil/Fine Sandy Loam
29"	-	41"	Medium Course Sand/Brown w/ Orange Mots
41"	-	63 ½"	Fine Sand w/ Mots
Depth of Hole	-	63 ½"	
Groundwater/Seeps @	-	57 ¾"	

TH #4

0"	-	3 ¾"	Topsoil/Fine Sandy Loam
3 ¾"	-	27 ¾"	Fill of various soil & other material
27 ¾"	-	57 ½"	Medium Sand w/ Mots
57 ½"	-	84"	Fine Sand
Depth of Hole	-	84"	
Groundwater/Seeps @	-	55 ¼"	
10" VCP Flowline	-	48"	

TH #5

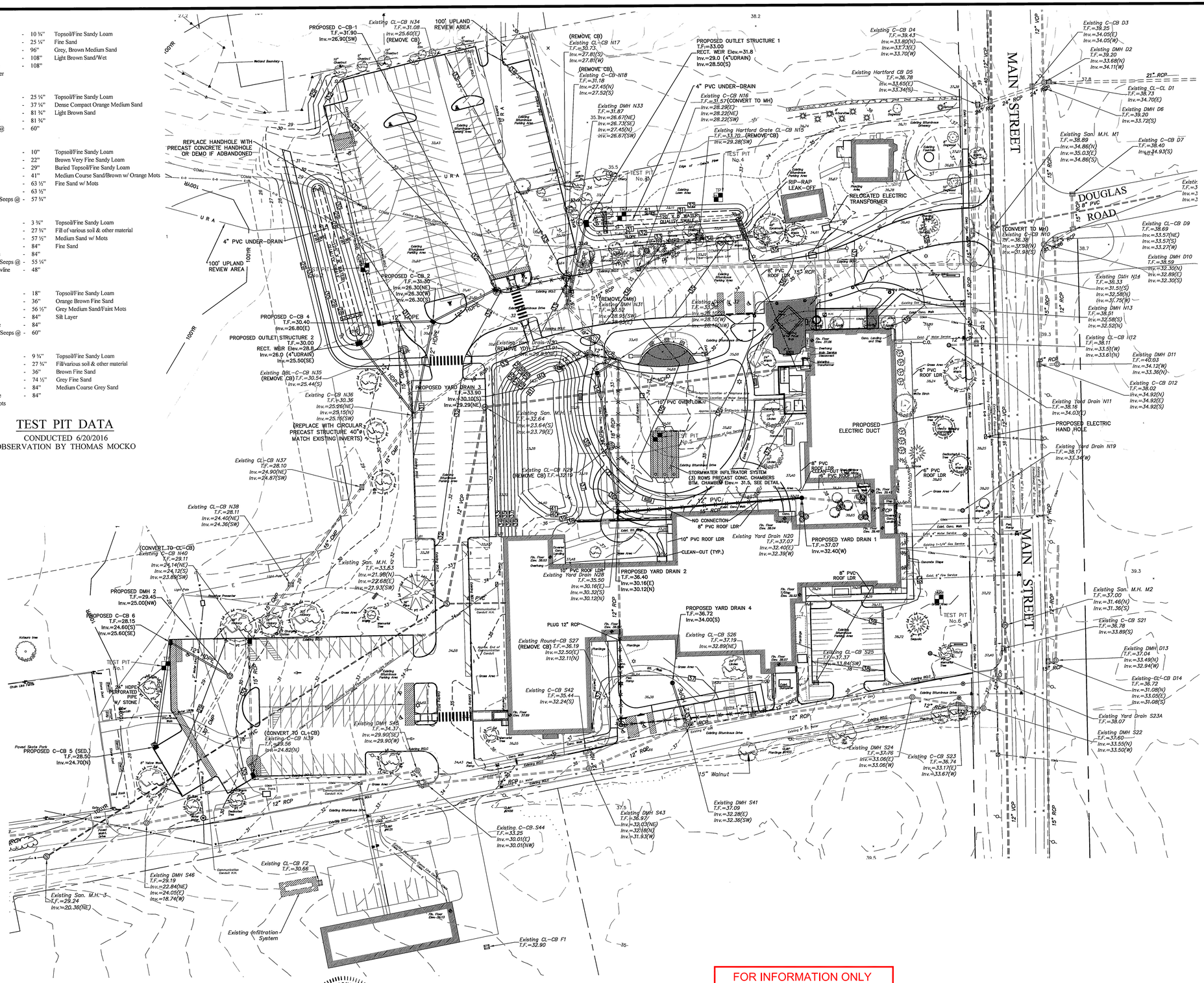
0"	-	18"	Topsoil/Fine Sandy Loam
18"	-	36"	Orange Brown Fine Sand
36"	-	56 ½"	Grey Medium Sand/Faint Mots
56 ½"	-	84"	Silt Layer
Depth of Hole	-	84"	
Groundwater/Seeps @	-	60"	

TH #6

0"	-	9 ¾"	Topsoil/Fine Sandy Loam
9 ¾"	-	27 ¾"	Fill/various soil & other material
27 ¾"	-	36"	Brown Fine Sand
36"	-	74 ½"	Grey Fine Sand
74 ½"	-	84"	Medium Coarse Grey Sand
Depth of Hole	-	84"	
No Water/Mots			

TEST PIT DATA

CONDUCTED 6/20/2016
OBSERVATION BY THOMAS MOCKO



MAINTENANCE PLAN FOR STORMWATER FACILITIES:

GENERAL: THE PROPOSED DRAINAGE SYSTEM TO BE INSTALLED AS PART OF THIS PROJECT WILL REQUIRE ROUTINE MAINTENANCE IN ORDER TO MAINTAIN PROPER FUNCTION OF WATER QUALITY IMPROVEMENT FEATURES. THESE FEATURES INCLUDE THE CATCH BASIN SUMPS, SEDIMENTATION CHAMBER, UNDERGROUND INFILTRATION SYSTEM, AND WATER QUALITY SWALES. THE TOWN OF GLASTONBURY HIGHWAY DEPARTMENT WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL COMPONENTS OF THE PROPOSED STORM DRAINAGE SYSTEM.

PARKING LOT SWEEPING: SWEEPING IS PERFORMED EVERY YEAR IN THE SPRING AS PART OF THE TOWN'S ANNUAL STREET MAINTENANCE. ADDITIONAL SWEEPING WILL BE PERFORMED ON AN AS NEEDED BASIS TO ADDRESS SEDIMENT IN THE PARKING LOT.

CATCH BASINS AND SEDIMENTATION STRUCTURE: INSPECTIONS WILL BE PERFORMED ANNUALLY AND STRUCTURES WILL BE CLEANED AT THE FREQUENCY DICTATED BY THE RATE OF SEDIMENT BUILD UP.

UNDERGROUND INFILTRATION SYSTEM: THREE MANHOLES ARE PROVIDED AT THE PROPOSED INLETS TO THE SYSTEM FOR INSPECTION PURPOSES, AND THESE WILL BE INSPECTED ANNUALLY AND CLEANED OF ANY DEPOSITED MATERIAL AS NECESSARY TO MAINTAIN FUNCTION.

WATER QUALITY SWALES: WATER QUALITY SWALES WILL BE MOWED AS NECESSARY TO PREVENT WOODY VEGETATIVE GROWTH WITHIN THE SWALES WHICH WOULD INHIBIT FLOW AND FUNCTION. THESE SWALES WILL BE INSPECTED ANNUALLY FOR SIGNS OF SEDIMENT DEPOSITS OR EROSION AND CLEANED AS NECESSARY.

Town of Glastonbury — PROJECT/APPLICANT
Reserved Land Zone — ZONE
2155 & 2143 Main Street — PROJECT ADDRESS
Town Hall & Academy Building
Section 12 — SPECIAL PERMIT SECTION
TPZ CHAIRPERSON
January 17, 2017 — DATE SPECIAL PERMIT APP'D
DIRECTOR OF COMMUNITY DEVELOPMENT
FILE NO.

SURVEY NOTES:

1. LOCATION OF FEATURES AND CONTOUR DATA DEPICTED HEREON WHERE ACQUIRED THROUGH FIELD SURVEY CONDUCTED 5-2011.
2. THERE IS NO BOUNDARY/DETERMINATION OPINION.
3. NOT ALL IMPROVEMENTS ARE DEPICTED HEREON.
4. HORIZONTAL CONTROL IS BASED ON THE CONNECTICUT GEODETIC SURVEY STATE PLANE COORDINATES, NORTH AMERICAN DATUM OF 1983 – (NAD83).
5. ELEVATIONS AND VERTICAL CONTROL IS BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 – (NAVD88).
6. REFERENCE FOR UTILITY INFO FROM THE FOLLOWING:

a. SITE PLAN LYONS AND MATHER ARCHITECTS BRIDGEPORT CONNECTICUT ACADEMY SCHOLL CONVERSION FOR JUNIOR HIGH SCHOOL DATE 1 JUNE 1960 JOB NO. 804
b. VARIOUS SITE, ELECTRICAL, MECHANICAL–HEATING & PLUMBING PLANS PROJECT 7202 ACADEMY SCHOOL RENOVATIONS 2141 MAIN STREET GLASTONBURY, CONNECTICUT DATE NOV 5 73 STECKER AND COLAVECCHIO ARCHITECTS, INC. 800 COTTAGE GROVE ROAD BLOOMFIELD, CONNECTICUT 06002 BEMIS FREEMAN SIPALA CONSULTING ENGINEERS

ALL UTILITY INFORMATION AND DATA SHOWN OR INDICATED IN THE CONTRACT DOCUMENTS ARE COMPLIED FROM MAPS AND DATA FURNISHED BY OTHERS, ANY SUCH INFORMATION SHOULD NOT BE CONSTRUED AS ACCURATE OR COMPLETE AND THE CONTRACTOR SHALL VERIFY ALL LOCATIONS PRIOR TO CONSTRUCTION.

THIS MAP PRODUCED BY
ORIGINAL INK DRAWING ON
POLY FILM OR LINEN
TOWN OF GLASTONBURY
2155 MAIN STREET
GLASTONBURY, CT 06033

DANIEL A. PENNINGTON
No. 20101
LICENSED PROFESSIONAL ENGINEER

MANUAL REVISIONS TO THIS DOCUMENT ARE PROHIBITED.
ALL REVISIONS MUST BE PERFORMED ON CADD FILE:
H: \DWG\Streets\Main St\PW-0908 ACADEMY SCHOOL SITE IMPROVEMENTS\TownHall-Academy-Filing-2017.dwg

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.
IF SCALING FROM THIS PLAN, VERIFY SCALE WITH THE GRAPHIC SCALE PROVIDED ABOVE.

FOR INFORMATION ONLY

PW-0908

DRAWING ISSUE STATUS		
3.	ISSUED FOR LANDSCAPING BID	5/5/2017
2.	CONDITIONS OF APPROVAL	3/28/2017
1.	ISSUED ~~FOR PERMITTING~~	12/~~16~~/2016
NO.	DESCRIPTION	DATE

TOWN OF GLASTONBURY ENGINEERING

SCALE: AS SHOWN	DATE:
DRAWN BY: C.F.S.	11/17/2016
CHECKED BY: S.M.B.	11/17/2016
APPROVED BY: D.A.P.	11/17/2016
ST. FILE:	

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GRID NORTH

PLAN DEPICTING PROPOSED DRAINAGE AND UTILITIES
TOWN HALL / ACADEMY COMPLEX DRIVE & PARKING RECONFIGURATION

LOCATED AT
2155 / 2143 MAIN STREET
GLASTONBURY, CONNECTICUT

SHEET NO.
6
OF 12

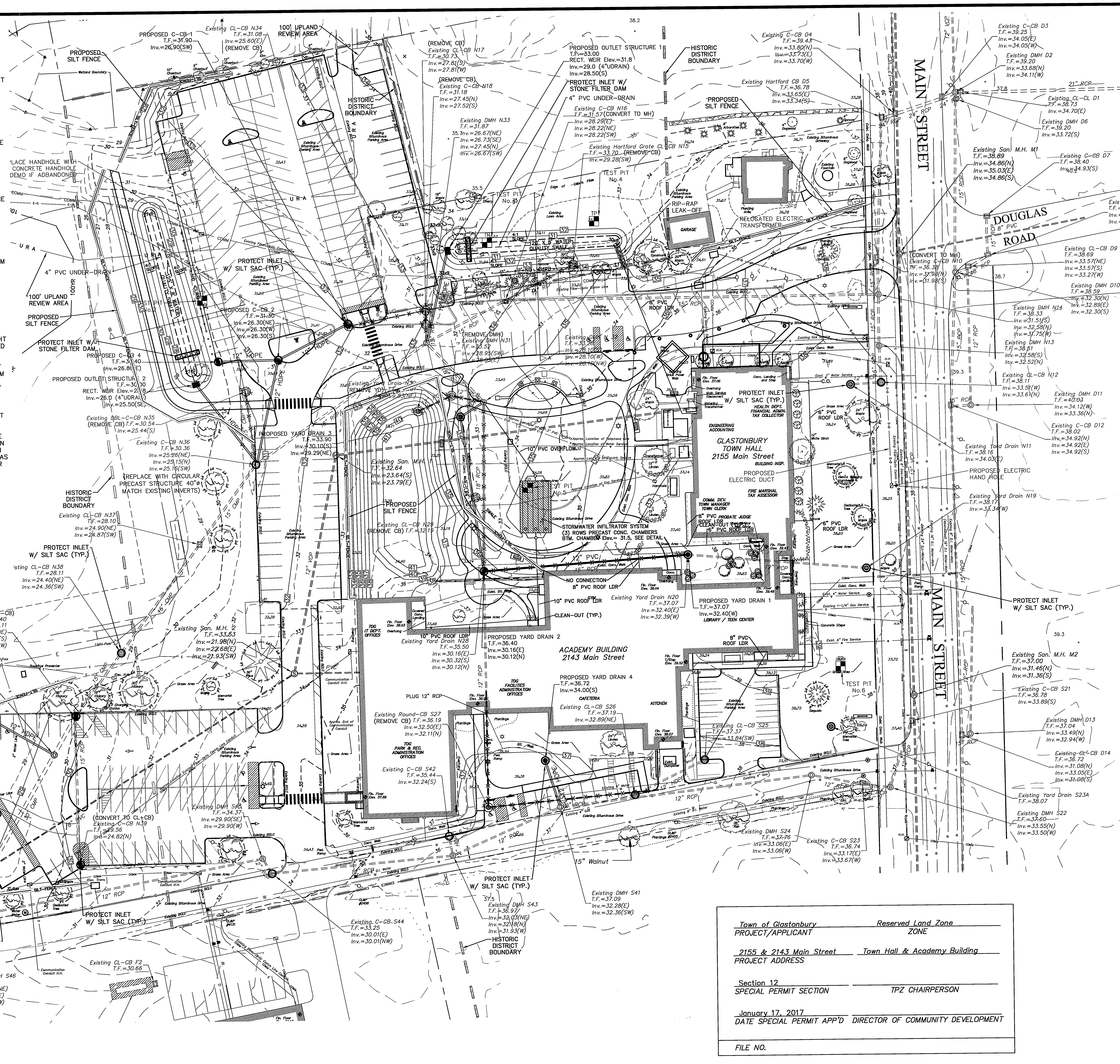
GENERAL SEDIMENTATION AND EROSION CONTROL REQUIREMENTS:

THESE GUIDELINES SHALL APPLY TO ALL WORK CONSISTING OF ANY AND ALL TEMPORARY AND/OR PERMANENT MEASURES TO CONTROL WATER POLLUTION AND SOIL EROSION AS MAY BE REQUIRED, DURING THE CONSTRUCTION OF THE PROJECT.

IN GENERAL, ALL ACTIVITIES SHALL PROCEED IN SUCH A MANNER SO AS NOT TO POLLUTE ANY WETLANDS, WATERCOURSE, WATERBODY, AND CONDUIT CARRYING WATER, ETC. THE DEPARTMENT OF PHYSICAL SERVICES SHALL LIMIT, INSOFAR AS POSSIBLE, THE SURFACE AREA OF EARTH MATERIALS EXPOSED BY CONSTRUCTION METHODS, AND IMMEDIATELY PROVIDE PERMANENT AND TEMPORARY POLLUTION CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT WETLANDS, WATERCOURSES AND WATERBODIES, AND TO PREVENT, INSOFAR AS POSSIBLE, EROSION ON THE SITE.

CONSTRUCTION METHODS, IN GENERAL, SHALL BE IN ACCORDANCE WITH THE PROVISIONS SET FORTH IN THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" (2002) BY THE STATE OF CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION.

1. ALL CONTROL MEASURES SHALL BE INSTALLED AS NOTED ABOVE AND AS SHOWN ON THE PLANS.
2. ALL CONTROL MEASURES SHALL BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO COMMENCEMENT OF ANY WORK, INCLUDING PRE-CONSTRUCTION CLEARING AND GRUBBING.
3. ALL CONTROL MEASURES SHALL BE MAINTAINED AND UPGRADED AS REQUIRED TO ACHIEVE PROPER SEDIMENT CONTROL THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL DISTURBED AREAS HAVE BEEN THOROUGHLY STABILIZED.
4. NO CONTROL MEASURES SHALL BE REMOVED WITHOUT APPROVAL FROM THE ENGINEER.
5. ADDITIONAL CONTROL MEASURES SHALL BE INSTALLED DURING THE CONSTRUCTION PERIOD IF DEEMED NECESSARY BY THE ENGINEER.
6. THE LIMITS OF CLEARING, GRADING AND DISTURBANCE, AS SHOWN ON THE PLAN(S), SHALL BE KEPT TO A MINIMUM WITHIN THE APPROVED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE THE LIMITS OF CLEARING SHALL REMAIN TOTALLY UNDISTURBED.
7. ANY CONTROL MEASURES RETAINING SEDIMENT OVER 1/2 THEIR HEIGHT SHALL HAVE THE SEDIMENT IMMEDIATELY REMOVED, AND ALL DAMAGED CONTROL MEASURES SHALL BE REMOVED AND REPLACED.
8. ALL NEW AND EXISTING CATCH BASINS LOCATED WITHIN THE PROJECT LIMITS SHALL BE PROTECTED WITH A SEDIMENTATION CONTROL SYSTEM IN GRASSED AREAS OR WITH A SEDIMENTATION CONTROL SACK IN PAVED AREAS UNTIL ALL DISTURBED AREAS HAVE BEEN THOROUGHLY STABILIZED.
9. SEDIMENT REMOVED FROM CONTROL MEASURES AND DRAINAGE FACILITIES SHALL BE DISPOSED OF IN A MANNER THAT IS CONSISTENT WITH STATE AND LOCAL REGULATIONS.
10. THE PLANTING SEASONS FOR THE SPECIFIED SEED MIXTURE SHALL BE AS DEFINED IN THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, UNLESS DIRECTED OTHERWISE BY THE TOWN ENVIRONMENTAL PLANNER. OUTSIDE OF THESE SPECIFIED DATES, AREAS WILL BE STABILIZED WITH HAY BALE CHECK DAMS, FILTER FABRIC, OR WOOD CHIP MULCH AS REQUIRED TO CONTROL EROSION.



Town of Glastonbury	Reserved Land Zone
PROJECT/APPLICANT	ZONE
2155 & 2143 Main Street	Town Hall & Academy Building
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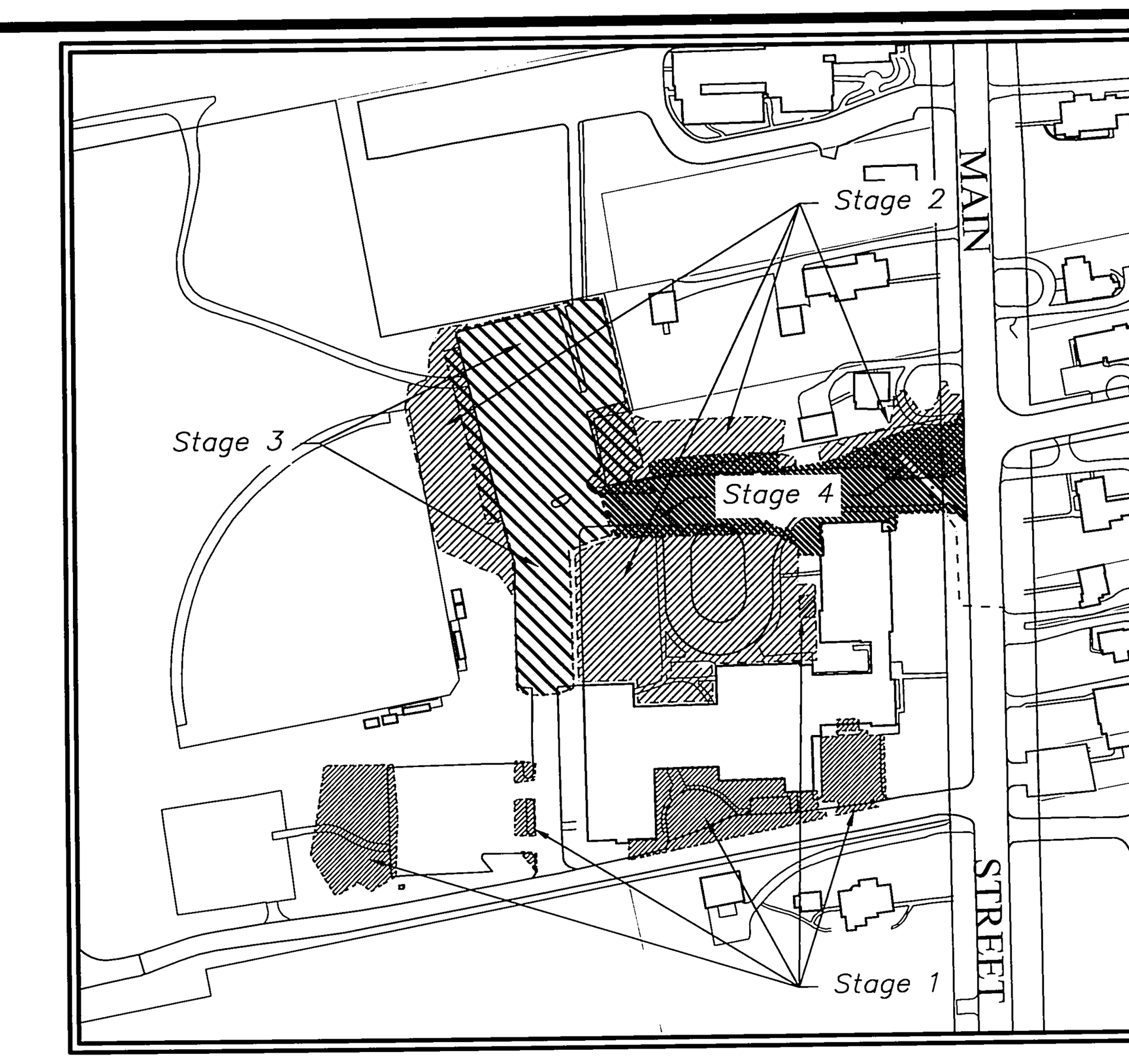

PHASE MAP

SCALE: 1 INCH = 200 FEET

PROJECT NARRATIVE:
THE TOWN HALL SITE IMPROVEMENT PROJECT INCLUDES THE INSTALLATION OF AN 1,000 SQUARE FOOT BUILDING ADDITION ON THE NORTH SIDE OF TOWN HALL AS WELL AS RECONFIGURATION / RECONSTRUCTION OF PARKING LOT, DRIVEWAY, AND SIDEWALK AREAS TO ADDRESS POOR PAVEMENT CONDITIONS, PROVIDE ADDITIONAL PARKING, AND IMPROVE TRAFFIC FLOW THROUGH THE SITE. ALSO INCLUDED IN THE PROJECT IS RELOCATION OF THE NORTHERLY SITE DRIVEWAY TO ALIGN OPPOSITE DOUGLAS ROAD, AND REMOVAL OF THE LOOP DRIVEWAY BEHIND TOWN HALL AND REPLACEMENT WITH A LAWN AREA. DRAINAGE IMPROVEMENTS ASSOCIATED WITH THE PROJECT INCLUDE AN UNDERGROUND INFILTRATION SYSTEM FOR ROOF WATER FROM THE ACADEMY BUILDING AND PART OF TOWN HALL, AND TWO STORMWATER QUALITY SWALES AND A PERFORATED PIPE INFILTRATION SYSTEM TO PROVIDE TREATMENT OF STORMWATER RUNOFF FROM PARKING LOT AREAS. THE TOTAL ESTIMATED AREA OF DISTURBANCE FOR THE PROJECT IS 4.5 ACRES.

CONSTRUCTION SEQUENCE:

1. SITE PREPARATION: INSTALL PERIMETER EROSION AND SEDIMENT CONTROLS AND PROTECT INLETS WITH SILT SACKS. PROTECT TREES IDENTIFIED FOR PROTECTION WITH ORANGE CONSTRUCTION FENCE TO BE LOCATED AT THE DRIP-LINE OF THE TREE CANOPY. WORK WITH TREE WARDEN TO POST 10-DAY NOTICE FOR ANY TREES OR SHRUBS TO BE REMOVED. REMOVE TREES, SHRUBS, AND STUMPS WITHIN THE LIMITS OF CONSTRUCTION AS INDICATED ON THE PLANS. REMOVE AND DISPOSE OF EXISTING UNDERGROUND OIL TANKS AS SHOWN ON THE PLANS.
2. STAGE 1: CONSTRUCT IMPROVEMENTS ON THE SOUTHERLY PORTION OF THE SITE, INCLUDING PARKING LOT EXPANSION NEAR SKATE PARK, PARKING AND SIDEWALK AT FACILITIES ENTRANCE, AND RECONSTRUCTED PARKING LOT AND SIDEWALKS NEAR TEEN CENTER ENTRANCE. CLOSE SOUTHERLY DRIVEWAY AS NEEDED TO FACILITATE CONSTRUCTION, REROUTE TRAFFIC TO NORTHERLY DRIVEWAY. INSTALL PROPOSED DRAINAGE, CONDUITS AND FOUNDATIONS FOR SITE LIGHTING. STRIP EXISTING PAVEMENT FROM TEEN CENTER PARKING LOT, FINE GRADE. PAVE ALL THREE SOUTHERLY PARKING LOT AREAS, STRIPE PAVEMENT MARKINGS, INSTALL SIGNS, AND RELOCATE DUMPSTERS TO DESIGNATED AREA NEAR SKATE PARK. TOPSOIL AND SEED DISTURBED AREAS.
3. STAGE 2: BEGIN WORK ON NORTHERLY PORTION OF THE SITE ON AREAS OUTSIDE LIMITS OF EXISTING PAVEMENT AND WITHIN TOWN HALL LOOP DRIVEWAY. INSTALL NEW TRANSFORMER FOUNDATION AND CONDUITS FOR UNDERGROUND ELECTRIC SERVICE TO MAIN STREET. CONSTRUCT STORMWATER QUALITY SWALES, INCLUDING UNDERDRAINS AND OUTLET STRUCTURES. IMMEDIATELY TOPSOIL AND SEED THESE AREAS TO COMPLETELY ESTABLISH VEGETATION PRIOR TO ALLOWING STORMWATER INTO THE SWALES, PROTECT OUTLET STRUCTURES WITH STONE BERMS. CLOSE TOWN HALL LOOP DRIVEWAY TO TRAFFIC. PERFORM FULL DEPTH CONSTRUCTION (TO SUBBASE COURSE) FOR NEW PARKING AND DRIVEWAY AREAS ON THE NORTHERLY PORTION OF THE SITE THAT ARE OUTSIDE THE LIMITS OF EXISTING PAVEMENT, INCLUDING AREAS ADJACENT TO STORMWATER QUALITY SWALES. PROTECT EXISTING BITUMINOUS CURB ADJACENT TO SWALES TO PREVENT PARKING LOT STORMWATER FROM ENTERING THE SWALES UNTIL FULL VEGETATION IS ESTABLISHED. DEMOLISH DRAINAGE STRUCTURES, SIDEWALKS, AND RETAINING WALL IN AREA OF TOWN HALL LOOP DRIVEWAY AND FORMER D-WING AREA. INSTALL NEW DRAINAGE AND CONDUITS FOR SITE LIGHTING WITHIN WORK AREA LIMITS. HAUL BORROW MATERIAL AND ROUGH GRADE BOSK BERM AND PROPOSED LAWN AREA WITHIN FORMER LOOP DRIVE.
4. STAGE 3: CONSTRUCT IMPROVEMENTS TO NORTHWESTERN STAFF PARKING LOT AND PARKING LOT ADJACENT TO BOSK BERM (BEHIND FORMER D-WING). INSTALL NEW DRAINAGE STRUCTURES / PIPES, CONDUITS AND FOUNDATIONS FOR SITE LIGHTING. CONSTRUCT NEW CONCRETE SIDEWALKS AND RAMPS WITHIN THESE LIMITS OF CONSTRUCTION. PERFORM FULL DEPTH PAVEMENT RECLAMATION OF THE PARKING LOT AREAS. FINE GRADE PARKING LOTS, STOCKPILE EXCESS BASE MATERIAL FOR USE IN STAGE 4. PAVE PARKING AREAS. TOPSOIL AND SEED DISTURBED AREAS, INSTALL PAVEMENT MARKINGS AND SIGNS WITHIN LIMITS OF THIS STAGE.
5. STAGE 4: CLOSE NORTHERLY DRIVEWAY, ESTABLISH WORK AREA FOR BUILDING CONSTRUCTION. MAINTAIN ACCESS TO EMPLOYEE / STAFF PARKING LOT AT THE NORTHWEST PORTION OF THE SITE. INSTALL BUILDING FOUNDATION AND CONSTRUCT BUILDING ADDITION. RECONSTRUCT NORTHERLY DRIVEWAY AND ADJACENT PARKING AREAS FULL DEPTH, INCLUDING SIDEWALKS AND GRANITE CURB. DEMOLISH EXISTING DRAINAGE STRUCTURES AND PIPES DESIGNATED FOR REMOVAL ON THE PLANS AND INSTALL NEW DRAINAGE STRUCTURES AND PIPING. PROTECT NEW INLETS WITH SILT SACKS AS SHOWN ON THE PLANS. DEMOLISH SIDEWALKS, LOOP DRIVEWAY, AND RETAINING WALL AND GRADE AREA TO FINISH LAWN ELEVATION. INSTALL PRECAST CONCRETE FOUNDATIONS AND CONDUITS FOR SITE LIGHTING AS SHOWN ON THE PLANS. INSTALL ANY OTHER UTILITY SERVICES REQUIRED FOR THE PROPOSED BUILDING ADDITION. INSTALL NEW SIDEWALKS AND PAVER PATIOS IN PROPOSED LAWN AREA. INSTALL FINAL PAVEMENT MARKINGS AND SIGNS. INSTALL SITE LIGHT FIXTURES AS SHOWN ON THE PLANS. TOPSOIL AND SEED ALL DISTURBED AREAS. INSTALL LANDSCAPING THROUGHOUT PROJECT LIMITS.

PROJECT SPECIFIC SEDIMENTATION AND EROSION CONTROL PLAN
CONSTRUCTION ACTIVITIES OF CONCERN RELATIVE TO THE PROTECTION OF ADJACENT WETLANDS AND WATERCOURSES FROM SEDIMENTATION ARE AS FOLLOWS:

1. DEWATERING: OPEN TRENCH EXCAVATIONS WILL NEED TO BE DEWATERED AS NECESSARY FOR PROPER INSTALLATION OF THE PROPOSED PIPES. IN THESE AREAS, ALL WATER REMOVED FROM THE TRENCH SHALL BE ADEQUATELY TREATED PRIOR TO DISCHARGE USING MEASURES DESCRIBED IN SECTION 5-13 OF THE 2002 CT GUIDELINES FOR EROSION AND SEDIMENT CONTROL. THIS MAY INCLUDE A STONE SUMP AND STANDPIPE FOR PUMP INTAKE PROTECTION, AND A DIRT BAG OR PUMPING SETTLING BASIN FOR TREATMENT OF THE PUMPED WATER PRIOR TO DISCHARGE.

2. STOCKPILING: EXCAVATED MATERIAL SHALL NOT BE STOCKPILED ADJACENT TO STORM DRAIN INLETS, WETLANDS, OR WATERCOURSES. WHEN IT IS NECESSARY BASED ON THE PROPOSED METHODS OF CONSTRUCTION TO STAGE EXCAVATED MATERIAL FOR SHORT DURATIONS IN THE VICINITY OF STORM DRAIN INLETS, THESE INLETS SHALL BE PROPERLY PROTECTED AS DESCRIBED ON THE PLANS. LONGER DURATION STOCKPILING OF MATERIAL, WHEN NECESSARY, SHALL BE ONLY IN LOCATIONS APPROVED IN ADVANCE BY THE ENGINEER, AND SUCH STOCKPILES SHALL BE RINGED WITH A SEDIMENTATION CONTROL SYSTEM.

3. DISTURBED AREAS: LIMITS OF DISTURBANCE SHALL BE IN STRICT ACCORDANCE WITH THE APPROVED PLAN. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH THE FINAL SURFACE TREATMENT AS SOON AS POSSIBLE AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED. DISTURBED AREAS WITH STEEP OR LONG SLOPES AND OTHER AREAS WITH SIGNIFICANT POTENTIAL FOR CAUSING SEDIMENTATION SHALL BE PROTECTED WITH TEMPORARY STRAW MULCH, WOOD CHIPS, EROSION CONTROL MATTING, OR OTHER SUITABLE MATERIALS PRIOR TO SIGNIFICANT FORECASTED RAIN STORM EVENTS TO REDUCE EROSION POTENTIAL.

4. DRAINAGE WAYS: CONSTRUCTION OF DITCHES, CHANNELS, THAT ACTIVELY CONVEY FLOW SHALL BE PERFORMED SUCH THAT THE PORTION OF DRAINAGE WAY DISTURBED DURING A GIVEN DAY IS COMPLETED WITH THE PERMANENT LINING BY DAYS END, OR OTHERWISE AS NECESSARY TO PROVIDE FOR TEMPORARY BYPASS OF STORMWATER AND ENSURE THAT DOWNSTREAM WETLAND AREAS ARE PROTECTED FROM SEDIMENTATION AND EROSION OF THE CHANNEL.

5. SEVERE WEATHER CONTINGENCY PLAN: IN ADVANCE OF A SEVERE WEATHER EVENT, ALL EROSION CONTROLS DESCRIBED ABOVE AND ELSEWHERE ON THE PLANS SHALL BE INSPECTED AND ADJUSTED AS NECESSARY.

RESPONSIBLE PARTIES:
THE DEPARTMENT OF PHYSICAL SERVICES SHALL PROVIDE A REPRESENTATIVE WHO IS RESPONSIBLE FOR IMPLEMENTING THE EROSION AND SEDIMENTATION CONTROL PLAN. THIS INCLUDES THE INSTALLATION AND MAINTENANCE OF ALL CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN.

FOR INFORMATION ONLY

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THIS MAP PRODUCED BY ORIGINAL INK DRAWING ON POLY FILM OR LINEN
TOWN OF GLASTONBURY
2155 MAIN STREET
GLASTONBURY, CT 06033

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H: \DWG\Streets\Main St\PW-0908 ACADEMY SCHOOL SITE IMPROVEMENTS\TownHall-Academy-Filing-2017.dwg

GRAPHIC SCALE
(IN FEET)
1 inch = 40 ft.
IF SCALING FROM THIS PLAN, VERIFY SCALE WITH THE GRAPHIC SCALE PROVIDED ABOVE.

PW-0908

NO.	DRAWING ISSUE STATUS — DESCRIPTION	DATE
3.	ISSUED FOR LANDSCAPING BID	5/5/2017
2.	CONDITIONS OF APPROVAL	3/28/2017
1.	ISSUED FOR PERMITTING	12/16/2016

	DATE:
SCALE: AS SHOWN	
DRAWN BY: C.F.S.	11/18/2016
CHECKED BY: S.M.B.	11/18/2016
APPROVED BY: D.A.P.	11/18/2016
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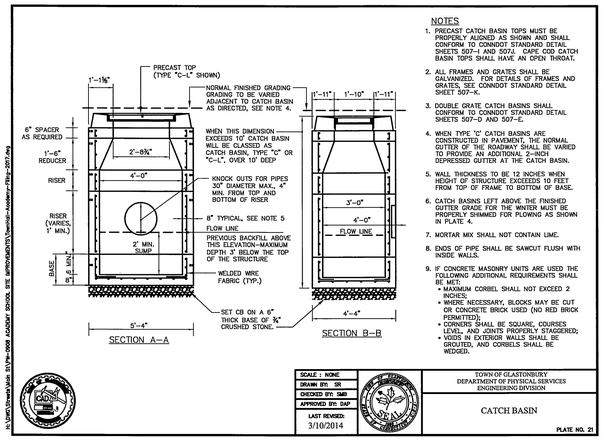
GRID NORTH

EROSION AND SEDIMENTATION CONTROL AND PHASING PLAN
TOWN HALL / ACADEMY COMPLEX DRIVE & PARKING RECONFIGURATION
LOCATED AT
2155 / 2143 MAIN STREET
GLASTONBURY, CONNECTICUT

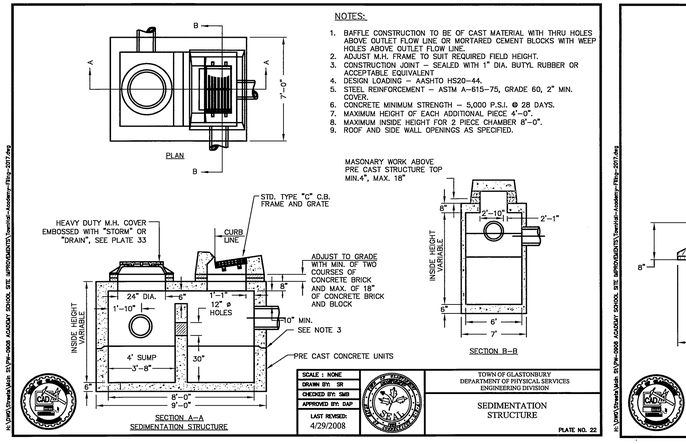
FILE: H:\DWG\Streets\Main St\PW-0908 ACADEMY SCHOOL SITE IMPROVEMENTS\Townhall-Academy-Filing-2017.dwg USER: Charles Steinkilper DATE: 5/4/2017



NOTES

1. PRECOAST CATCH BASIN TOPS MUST BE PROPERLY ALIGNED AS SHOWN AND SHALL CONFORM TO CONNDOT STANDARD DETAIL SHEETS 607-1 AND 607-2. CAPE COD CATCH BASIN TOPS SHALL HAVE AN OPEN THROAT.
2. ALL FRAMES AND GRATES SHALL BE GALVANIZED. FOR DETAILS OF FRAMES AND GRATES, SEE CONNDOT STANDARD DETAIL SHEET 607-K.
3. DOUBLE GRATE CATCH BASINS SHALL CONFORM TO CONNDOT STANDARD DETAIL SHEETS 607-D AND 607-E.
4. WHICH TYPE "C" CATCH BASINS ARE CONSTRUCTED IN PAVEMENT, THE NORMAL CUTTER OF THE ROADWAY SHALL BE VARIED TO PROVIDE AN ADDITIONAL 2-INCH DEPRESSED GUTTER AT THE CATCH BASIN.
5. WALL THICKNESS TO BE 12 INCHES WHEN HEIGHT OF STRUCTURE EXCEEDS 10 FEET FROM TOP OF FRAME TO BOTTOM OF BASE.
6. CATCH BASINS LEFT ABOVE THE FINISHED GUTTER GRADE FOR THE WINTER MUST BE PROPERLY SHIMMED FOR PLOWING AS SHOWN IN PLATE 4.
7. MORTAR MIX SHALL NOT CONTAIN LIME.
8. ENDS OF PIPE SHALL BE SAWCUT FLUSH WITH INSIDE WALLS.
9. IF CONCRETE MASONRY UNITS ARE USED THE FOLLOWING ADDITIONAL REQUIREMENTS SHALL BE MET:
   - MAXIMUM CORBEL SHALL NOT EXCEED 2 INCHES;
   - WHERE NECESSARY, BLOCKS MAY BE CUT OR CONCRETE BRICK USED (NO RED BRICK PERMITTED);
   - CORNERS SHALL BE SQUARE, COURSES LEVEL, AND JOINTS PROPERLY STAGGERED;
   - VOIDS IN EXTERIOR WALLS SHALL BE GROUTED, AND CORBELS SHALL BE WEDGED.

SCALE : NONE	TOWN OF GLASTONBURY DEPARTMENT OF PHYSICAL SERVICES ENGINEERING DIVISION
DRAWN BY: SR	
CHECKED BY: SMB	
APPROVED BY: DAP	CATCH BASIN
LAST REVISED: 3/10/2014	PLATE NO. 21

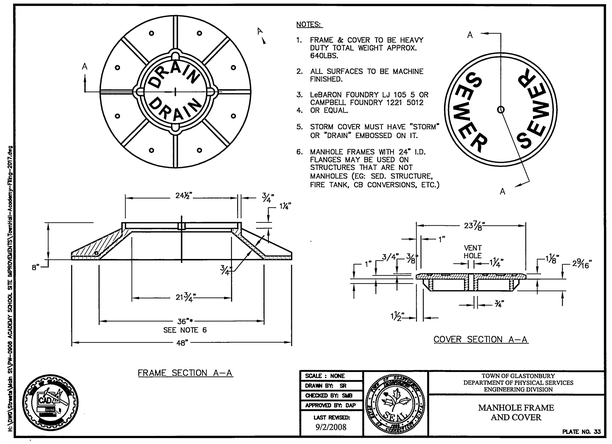


NOTES:

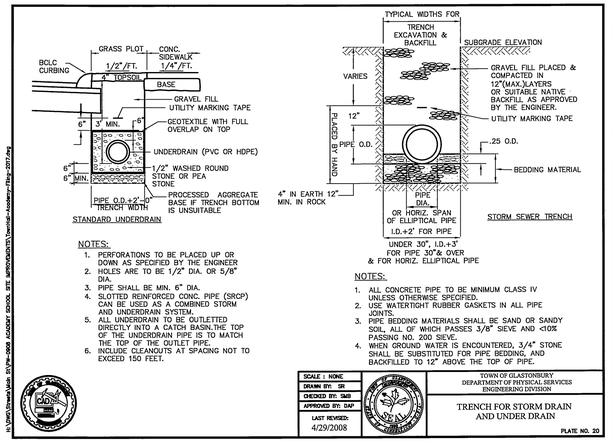
1. BAFFLE CONSTRUCTION TO BE OF CAST MATERIAL WITH THRU HOLES ABOVE OUTLET FLOW LINE OR MORTARED CEMENT BLOCKS WITH WEEP HOLES ABOVE OUTLET FLOW LINE.
2. ADJUST M.H. FRAME TO SUIT REQUIRED FIELD HEIGHT.
3. CONSTRUCTION JOINT – SEALED WITH 1" DIA. BUTYL RUBBER OR ACCEPTABLE EQUIVALENT
4. DESIGN LOADING – AASHTO H520–44.
5. STEEL REINFORCEMENT – ASTM A–615–75, GRADE 60, 2" MIN. COVER.
6. CONCRETE MINIMUM STRENGTH – 5,000 P.S.I. @ 28 DAYS.
7. MAXIMUM HEIGHT OF EACH ADDITIONAL PIECE 4'–0".
8. MAXIMUM INSIDE HEIGHT FOR 2 PIECE CHAMBER 8'–0".
9. ROOF AND SIDE WALL OPENINGS AS SPECIFIED.

MASONARY WORK ABOVE PRE CAST STRUCTURE TOP MIN.4", MAX. 18"

SCALE : NONE	TOWN OF GLASTONBURY DEPARTMENT OF PHYSICAL SERVICES ENGINEERING DIVISION
DRAWN BY: SR	
CHECKED BY: SMB	
APPROVED BY: DAP	SEDIMENTATION STRUCTURE
LAST REVISED: 4/29/2008	PLATE NO. 22



SCALE : NONE	TOWN OF GLASTONBURY DEPARTMENT OF PHYSICAL SERVICES ENGINEERING DIVISION
DRAWN BY: SR	
CHECKED BY: SMB	
APPROVED BY: DAP	MANHOLE FRAME AND COVER
LAST REVISED: 9/2/2008	PLATE NO. 33



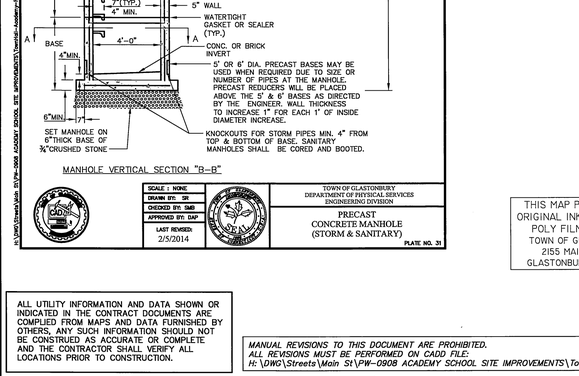
NOTES:

1. PERFORATIONS TO BE PLACED UP OR DOWN AS SPECIFIED BY THE ENGINEER
2. HOLES ARE TO BE 1/2" DIA. OR 5/8" DIA.
3. PIPE SHALL BE MIN. 6" DIA.
4. SLOTTED REINFORCED CONC. PIPE (SRCP) CAN BE USED AS A COMBINED STORM AND UNDERDRAIN SYSTEM.
5. ALL UNDERDRAIN TO BE OUTLETTED DIRECTLY INTO A CATCH BASIN,THE TOP OF THE UNDERDRAIN PIPE IS TO MATCH THE TOP OF THE OUTLET PIPE.
6. INCLUDE CLEANOUTS AT SPACING NOT TO EXCEED 150 FEET.

NOTES:

1. ALL CONCRETE PIPE TO BE MINIMUM CLASS IV UNLESS OTHERWISE SPECIFIED.
2. USE WATERTIGHT RUBBER GASKETS IN ALL PIPE JOINTS.
3. PIPE BEDDING MATERIALS SHALL BE SAND OR SANDY SOIL, ALL OF WHICH PASSES 3/8" SIEVE AND <10% PASSING NO. 200 SIEVE.
4. WHEN GROUND WATER IS ENCOUNTERED, 3/4" STONE SHALL BE SUBSTITUTED FOR PIPE BEDDING, AND BACKFILLED TO 12" ABOVE THE TOP OF PIPE.

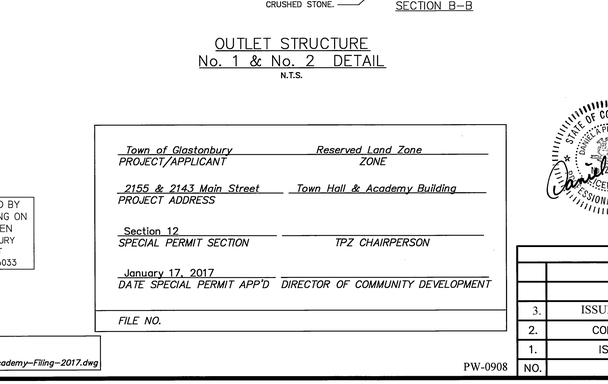
SCALE : NONE	TOWN OF GLASTONBURY DEPARTMENT OF PHYSICAL SERVICES ENGINEERING DIVISION
DRAWN BY: SR	
CHECKED BY: SMB	
APPROVED BY: DAP	TRENCH FOR STORM DRAIN AND UNDER DRAIN
LAST REVISED: 4/29/2008	PLATE NO. 20



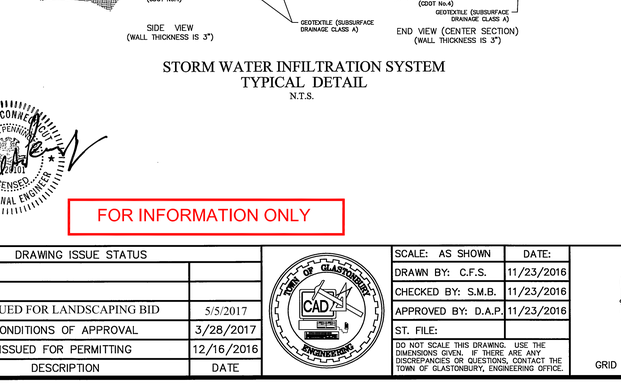
NOTES:

1. CONCRETE WING TO BE SLOPED AS FOLLOWS:
   –USE 1–1/2 TO 2 INCHES PER FOOT WHERE GRASS STRIP SEPARATES SIDEWALK FROM CURB.
   –USE 1 INCH PER FOOT MAX. WHERE SIDEWALK ABUTS CURB.
2. DETECTABLE WARNING STRIP SHALL BE PREFABRICATED SURFACE TILE AS MANUFACTURED BY ENGINEERED PLASTICS INC., ADA FABRICATORS INC. OR APPROVED EQUAL. TILE SHALL BE BRICK RED IN COLOR.

SCALE : NONE	TOWN OF GLASTONBURY DEPARTMENT OF PHYSICAL SERVICES ENGINEERING DIVISION
DRAWN BY: SR	
CHECKED BY: SMB	
APPROVED BY: DAP	CONCRETE SIDEWALK RAMPS
LAST REVISED: 2/4/2011	PLATE NO. 7



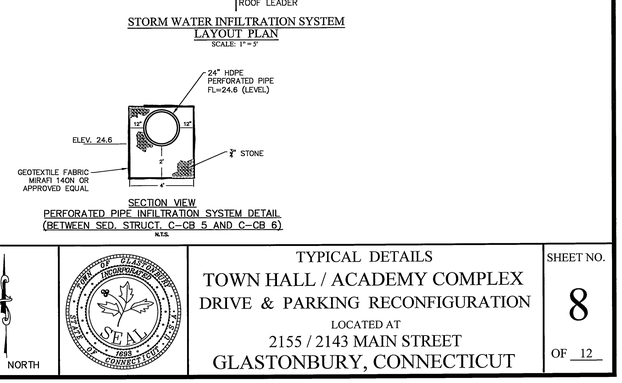
SCALE : NONE	TOWN OF GLASTONBURY DEPARTMENT OF PHYSICAL SERVICES ENGINEERING DIVISION
DRAWN BY: SR	
CHECKED BY: SMB	
APPROVED BY: DAP	CONCRETE SIDEWALKS
LAST REVISED: 3/10/2014	PLATE NO. 6



NOTES:

1. ALL BITUMINOUS CURBING IS TO BE SET ON THE BINDER COURSE.
2. ROADWAY SHALL BE SWEPT CLEAN AND PROPERLY TACK COATED PRIOR TO BITUMINOUS CURB INSTALLATION.

SCALE : NONE	TOWN OF GLASTONBURY DEPARTMENT OF PHYSICAL SERVICES ENGINEERING DIVISION
DRAWN BY: SR	
CHECKED BY: SMB	
APPROVED BY: DAP	TYPICAL CURBING DETAILS
LAST REVISED: 4/29/2008	PLATE NO. 5



STORM WATER INFILTRATION SYSTEM LAYOUT PLAN
SCALE: 1"=5'

NOTES:

1. ALL MANHOLE FRAMES AND COVERS TO BE SET FLUSH WITH BINDER COURSE. A MANHOLE RISER RING SHALL BE USED TO BRING MANHOLE COVER TO FINISHED GRADE PRIOR TO THE COMPLETION OF THE FINAL SURFACE COURSE.
2. TOP STEP TO BE 4" BELOW FRAME, 12" O.C. BELOW TOP STEP.
3. MANHOLE TO BE SET ON A BASE OF ¾" CRUSHED STONE AS SHOWN.

SCALE : NONE	TOWN OF GLASTONBURY DEPARTMENT OF PHYSICAL SERVICES ENGINEERING DIVISION
DRAWN BY: SR	
CHECKED BY: SMB	
APPROVED BY: DAP	PRECAST CONCRETE MANHOLE (STORM & SANITARY)
LAST REVISED: 2/5/2014	PLATE NO. 31

OUTLET STRUCTURES ELEVATIONS		
	No. 1	No. 2
OUTLET T.F.	33.0	30.0
WEIR ELEV.	31.8	28.1
INV. 4" U–DRAIN	29.0	26.0
INV. 12" CPEP	28.5	25.5
----	–	–

OUTLET STRUCTURE
No. 1 & No. 2 DETAIL
N.T.S.

GALLEY DESIGN SPECIFICATIONS CONFORMS TO LATEST: ASTM DESIGNATION C913

NOTES:
1. PIPE INLET SHALL HAVE 6" DIAMETER KNOCKOUTS.
2. REINFORCING STEEL DEFORMED BARS CONFORM TO LATEST ASTM SPECIFICATION A615.
3. CONCRETE COMPRESSIVE STRENGTH – 4000 PSI AT 28 DAYS.
4. METHOD OF MANUFACTURE: WET CAST.
5. SECTION IS MONOLITHIC.
6. GALLEY SHALL BE DESIGNED FOR HS–20 LOADING W/18" OF SOIL COVER.

SYSTEM ELEVATIONS		
	---	---
MH T.F.	VARIES	–
TOP/CHAMBER	33.0	–
INV. 6" PVC	32.25	–
BTM./CHAMBER	31.5	–
BTM./STONE	30.5	–

STORM WATER INFILTRATION SYSTEM
TYPICAL DETAIL
N.T.S.

SECTION VIEW
PERFORATED PIPE INFILTRATION SYSTEM DETAIL
(BETWEEN SED. STRUCT. C–CB 5 AND C–CB 6)
N.T.S.

Town of Glastonbury / *Reserved Land Zone*
PROJECT/APPLICANT / ZONE

2155 & 2143 Main Street / *Town Hall & Academy Building*
PROJECT ADDRESS

Section 12 / *TPZ CHAIRPERSON*
SPECIAL PERMIT SECTION

January 17, 2017 / *DIRECTOR OF COMMUNITY DEVELOPMENT*
DATE SPECIAL PERMIT APP'D

FILE NO.

THIS MAP PRODUCED BY ORIGINAL INK DRAWING ON POLY FILM OR LINEN
TOWN OF GLASTONBURY
2155 MAIN STREET
GLASTONBURY, CT 06033

STATE OF CONNECTICUT — DENNIS K. PERRIN — 21910 — LICENSED PROFESSIONAL ENGINEER

FOR INFORMATION ONLY

DRAWING ISSUE STATUS		
3.	ISSUED FOR LANDSCAPING BID	5/5/2017
2.	CONDITIONS OF APPROVAL	3/28/2017
1.	ISSUED FOR PERMITTING	12/16/2016
NO.	DESCRIPTION	DATE

SCALE: AS SHOWN	DATE:
DRAWN BY: C.F.S.	11/23/2016
CHECKED BY: S.M.B.	11/23/2016
APPROVED BY: D.A.P.	11/23/2016
ST. FILE:	

DO NOT SCALE THIS DRAWING. USE THE DIMENSIONS GIVEN. IF THERE ARE ANY DISCREPANCIES OR QUESTIONS, CONTACT THE TOWN OF GLASTONBURY, ENGINEERING OFFICE.

GRID NORTH

TYPICAL DETAILS
TOWN HALL / ACADEMY COMPLEX
DRIVE & PARKING RECONFIGURATION
LOCATED AT
2155 / 2143 MAIN STREET
GLASTONBURY, CONNECTICUT

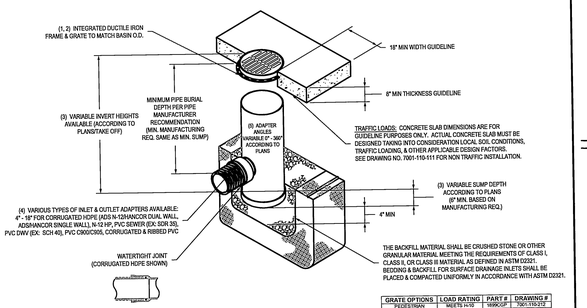
SHEET NO. 8 OF 12

ALL UTILITY INFORMATION AND DATA SHOWN OR INDICATED IN THE CONTRACT DOCUMENTS ARE COMPILED FROM MAPS AND DATA FURNISHED BY OTHERS, ANY SUCH INFORMATION SHOULD NOT BE CONSTRUED AS ACCURATE OR COMPLETE AND THE CONTRACTOR SHALL VERIFY ALL LOCATIONS PRIOR TO CONSTRUCTION.

MANUAL REVISIONS TO THIS DOCUMENT ARE PROHIBITED.
ALL REVISIONS MUST BE PERFORMED ON CADD FILE:
H: \DWG\Streets\Main St\PW–0908 ACADEMY SCHOOL SITE IMPROVEMENTS\TownHall–Academy–Filing–2017.dwg

PW-0908

NYLOPLAST 18" DRAIN BASIN: 2818AG _ _ X



GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	1899CGP	7001-110-213
STANDARD	MEETS H-20	1899CGS	7001-110-214
SOLID COVER	MEETS H-20	1899CGSD	7001-110-215
GRATE	LIGHT DUTY	1899CGT	7001-110-216
GROUT IN GRATE	LIGHT DUTY	1899GR	7001-110-217

1 - GRATE/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NESTED FOR BASING OVEN 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
4 - ADAPTERS: GASKET & WATERTIGHT JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL) N-12 HP, & PVC SEWER.
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

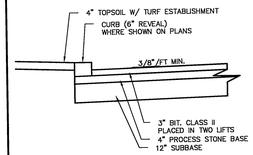
DRAWN BY	EBC	MATERIAL	
DATE	04-03-06		
REVISED BY	KMH	PROJECT NO./NAME	
DATE	03-14-16		
DWG SIZE	A	SCALE 1:10 SHEET 1 OF 1	

Nyloplast
2100 VISCONTI AVE.
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

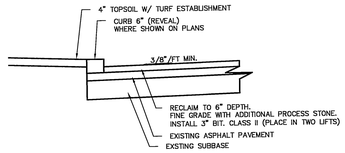
TITLE
18 IN DRAIN BASIN QUICK SPEC-INSTALLATION DETAIL

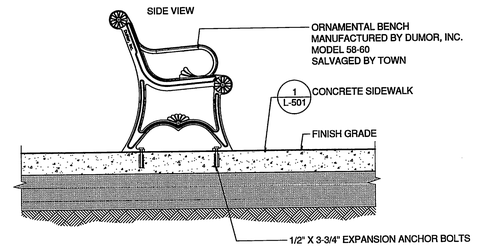
DWG NO. 7001-110-101 REV E

FULL DEPTH DRIVE/PARKING PAVEMENT DETAIL
NOT TO SCALE



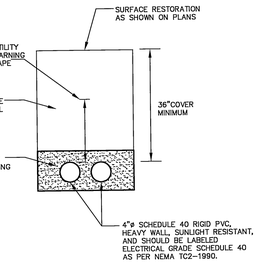
RECLAIMED DRIVE/PARKING PAVEMENT DETAIL
NOT TO SCALE





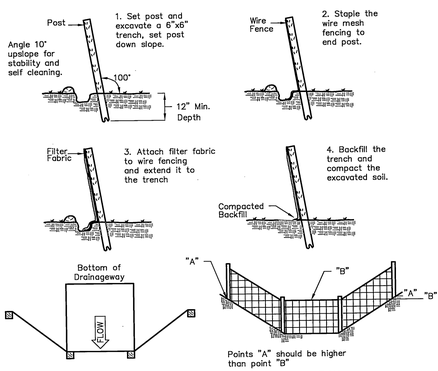
2 ORNAMENTAL BENCH (INSTALL ONLY)
N.T.S.

Y:\20120274\CONDOCS\Details\Ornamental_Bench_In_Paver_Pavement.dwg



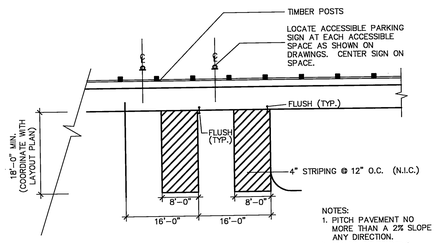
ELECTRICAL CONDUIT TRENCH DETAIL
N.T.S.

Town of Glastonbury PROJECT/APPLICANT	Reserved Land Zone ZONE
2155 & 2143 Main Street PROJECT ADDRESS	Town Hall & Academy Building
Section 12 SPECIAL PERMIT SECTION	TPZ CHAIRPERSON
January 17, 2017 DATE SPECIAL PERMIT APP'D	DIRECTOR OF COMMUNITY DEVELOPMENT
FILE NO.	



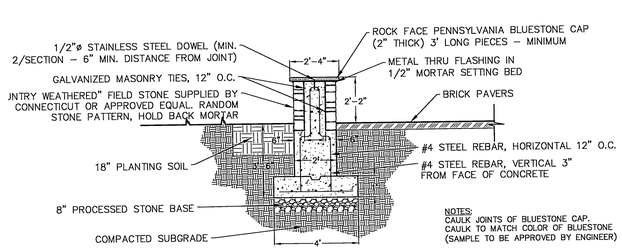
Source: U.S. Department of Agriculture, Soil Conservation Service, Storrs, Connecticut

PLACEMENT AND CONSTRUCTION OF A SYNTHETIC FILTER BARRIER
Fig. 7-9 SILTFENCING



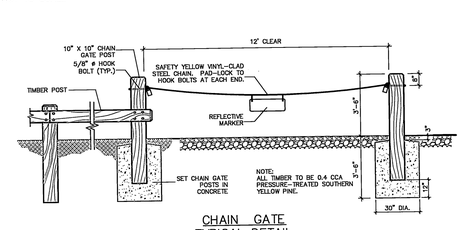
NOTES:
1. PITCH PAVEMENT NO MORE THAN A 2% SLOPE ANY DIRECTION.
2. COLOR OF STRIPING SHALL BE WHITE.

VAN-ACCESSIBLE PARKING SPACES (Typical)
NOT TO SCALE

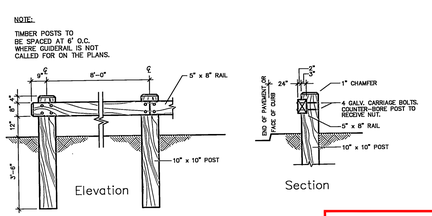


NOTES:
CAULK JOINTS OF BLUESTONE CAP. CAULK TO MATCH COLOR OF BLUESTONE (SAMPLE TO BE APPROVED BY ENGINEER)

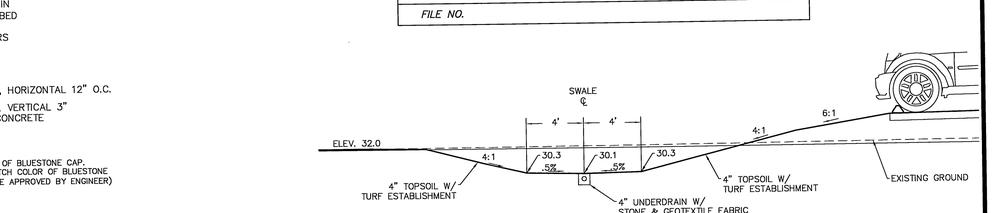
SITTING WALL DETAIL
N.T.S.



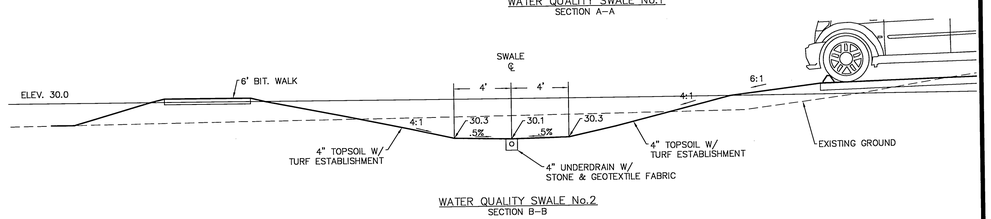
CHAIN GATE TYPICAL DETAIL
N.T.S.



TIMBER POSTS AND GUIDE RAIL TYPICAL DETAIL
N.T.S.



WATER QUALITY SWALE No.1
SECTION A-A



WATER QUALITY SWALE No.2
SECTION B-B

FOR INFORMATION ONLY

NO.	DESCRIPTION	DATE
3.	ISSUED FOR LANDSCAPING BID	5/5/2017
2.	CONDITIONS OF APPROVAL	3/28/2017
1.	ISSUED FOR PERMITTING	12/16/2016

DRAWING ISSUE STATUS

SCALE: AS SHOWN	DATE:
DRAWN BY: C.F.S.	11/23/2016
CHECKED BY: S.M.B.	11/23/2016
APPROVED BY: D.A.P.	11/23/2016
ST. FILE:	

DO NOT SCALE THIS DRAWING. USE THE DIMENSIONS GIVEN. IF THERE ARE ANY DISCREPANCIES OR QUESTIONS, CONTACT THE TOWN OF GLASTONBURY, ENGINEERING OFFICE.

GRID NORTH

TOWN OF GLASTONBURY CAD/GIS ENGINEERING

TYPICAL DETAILS
TOWN HALL / ACADEMY COMPLEX
DRIVE & PARKING RECONFIGURATION
LOCATED AT
2155 / 2143 MAIN STREET
GLASTONBURY, CONNECTICUT

SHEET NO. 9 OF 12

PW-0908

STATE OF CONNECTICUT — DANIEL A. PENNACCHIO — 20101 — LICENSED PROFESSIONAL ENGINEER — DATE: 5/4/2017

TOWN OF GLASTONBURY INCORPORATED 1693 CONNECTICUT SEAL

PLANT LIST

SYM.	QTY.	TECHNICAL NAME	COMMON NAME	SIZE	COMMENTS
DECIDUOUS TREES					
ARB	2	ACER RUBRUM 'BOWHALL'	BOWHALL RED MAPLE	3"-3½" CAL.	B&B (NATIVE)
AOC	6	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE	3"-3½" CAL.	B&B (NATIVE)
ASC	6	ACER SACCHARUM 'COMMEMORATION'	COMMEMORATION SUGAR MAPLE	3"-3½" CAL.	B&B (NATIVE)
AAB	3	AMELANCHER GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLANCE SHADBLOW	3"-3½" CAL.	B&B (NATIVE)
BRB	6	BETULA NIGRA 'BMTF'	DURA-HEAT RIVER BIRCH (MULTI-STEM)	10'-12' HT.	B&B (NATIVE)
GC	1	CERCIS CANADENSIS	EASTERN REDBUD	2"-2 1/2" CAL.	B&B (NATIVE)
CKT	2	CERCIDIPHYLLUM JAPONICUM	KATSURA TREE	3"-3½" CAL.	B&B
CFD	1	CORNUS ALTERNIFOLIA	PAGODA DOGWOOD	2"-2 1/2" CAL.	B&B (NATIVE)
CCB	6	CORNUS FLORIDA 'CHEROKEE BRAVE'	CHEROKEE BRAVE DOGWOOD	2"-2 1/2" CAL.	B&B (NATIVE)
CCN	10	CORNUS FLORIDA 'CLOUD NINE'	CLOUD NINE FLOWERING DOGWOOD	2"-2 1/2" CAL.	B&B (NATIVE)
MSM	3	MAGNOLIA VIRGINIANA	SWEETBAY MAGNOLIA	7'-8' HT.	B&B (NATIVE)
NBT	1	NYSSA SYLVATICA	BLACK TUPELO	3"-3½" CAL.	B&B
PAB	4	PLATANUS ACERIFOLIA 'BLOODGOOD'	BLOODGOOD LONDON PLANETREE	3"-3½" CAL.	B&B
QRO	2	QUERCUS RUBRA	NORTHERN RED OAK	3"-3½" CAL.	B&B (NATIVE)
UAS	2	ULMUS AMERICANA 'AGGOLADE'	AGGOLADE AMERICAN ELM	3"-3½" CAL.	B&B
ZVS	11	ZELKOVA SERRATA 'VILLAGE GREEN'	VILLAGE GREEN ZELKOVA	3"-3½" CAL.	B&B
EVERGREEN TREES					
PVP	5	PINUS FLEXILLIS 'VANDERWOLF'S PYRAMID'	VANDERWOLF'S PYRAMID LIMBR PINE	7'-8' HT.	B&B
TCH	5	TSUGA CANADENSIS	CANADIAN HEMLOCK	7'-8' HT.	B&B (NATIVE)
DECIDUOUS SHRUBS					
CS	1	CLETHRA ALNIFOLIA	SUMMERSWEET	5 GAL.	CONT. (NATIVE)
CAH	25	CLETHRA ALNIFOL 'HUMMINGBIRD'	HUMMINGBIRD SUMMERSWEET	3 GAL.	CONT. (NATIVE)
RDK	31	ROSA 'DOUBLE KNOCKOUT'	DOUBLE KNOCKOUT ROSE	3 GAL.	CONT. (NATIVE)
SBG	20	SPIREA BUMALDA 'GOLDMOUND'	GOLDMOUND SPIREA	3 GAL.	CONT.
VD	9	VIBURNUM DENTATUM	ARROWWOOD VIBURNUM	4'-5' HT.	B&B (NATIVE)
EVERGREEN SHRUBS					
ISD	17	ILEX GLABRA 'DENSA'	DENSA INKBERRY	3 GAL.	CONT. (NATIVE)
JAJ	27	JUNIPERS HORIZONTALIS 'PLUMOSA COMPACTA'	COMPACT ANDORRA JUNIPER	3 GAL.	CONT. (NATIVE)
JES	3	JUNIPERUD VIRGINIANA 'EMERALD SENTINEL'	EMERALD SENTINEL JUNIPER	5'-6' HT.	B&B (NATIVE)
KLN	6	KALMIA LATIFOLIA 'NIPMUCK'	NIPMUCK MOUNTAIN LAUREL	5 GAL.	CONT. (NATIVE)
KLT	7	KALMIA LATIFOLIA 'TINKERBELL'	TINKERBELL MOUNTAIN LAUREL	3 GAL.	CONT. (NATIVE)
PPH	6	PICEA PUNGENS 'HOOPSII'	HOOPS BLUE SPRUCE	5'-6' HT.	B&B
PDA	28	PIERIS JAPONICA 'YAKUSHIMANUM 'GAVATINE'	GAVATINE DWARF ANDROMEDA	3 GAL.	CONT.
TGS	35	TAXUS CUSPIDATA 'GREEN WAVE'	GREENWAVE YEW	24"-30" SPR.	
TSA	3	THUJA OCCIDENTALIS 'DESROOT'S SPIRE'	DESROOT'S SPIRE ARBORVITAE	5'-6' HT.	
TON	10	THUJA OCCIDENTALIS 'NIGRA'	DARK AMERICAN ARBORVITAE	7'-8' HT.	
PERENNIALS					
EPW	75	ECHINACEA PURPUREA 'POW WOW WILD BERRY'	POW WOW WILD BERRY CONEFLOWER	5 PNT.	
GR	53	GERANIUM 'ROZANNE'	ROZANNE GERANIUM	5 PNT.	
HFF	11	HOSTA 'FIRST FROST'	FIRST FROST HOSTA	5 PNT.	
HSG	23	HOSTA 'STAINED GLASS'	STAINED GLASS HOSTA	5 PNT.	
LSL	8	LEUCANTHEMUM SUPERBUM 'SNOW LADY'	SNOW LADY DWARF SHASTA DAISY	5 PNT.	
PAC	28	PENNISETUM ALOPECUROIDES 'CASSIAN'	CASSIAN FOUNTAIN GRASS	5 PNT.	
PCF	23	POLYSTICHUM ACROSTICHOIDES	CHRISTMAS FERN	5 PNT.	
RBS	111	RUDBECKIA FULGIDA FULGIDA	DWARF BLACK EYED SUSAN	5 PNT.	

NOTE: PROVIDE 2 ADDITIONAL PAB NOT SHOWN-TOTAL 4

EXIST. TREES TO BE REMOVED-TYP.

EXIST. PERENNIALS IN THIS AREA TO BE REMOVED AND STOCKPILED FOR REPLANTING AT THE ENTRANCE

EXIST. PLANT MATERIAL TO BE REMOVED

EXIST. 24" LINDEN TO BE REMOVED

EXIST. YEWS TO BE REMOVED

EXIST. SHRUBS TO BE REMOVED

EXIST. 12" BIRCH TO BE REMOVED

EXIST. SHRUBS TO BE REMOVED

NEW ADDITION

GLASTONBURY TOWN HALL
2155 Main Street

ACADEMY BUILDING
2143 Main Street

ENGINEERING
ACCOUNTING

HEALTH DEPT.
FINANCIAL ADMIN.
TAX COLLECTOR

BUILDING INSP.

FIRE MARSHALL
TAX ASSESSOR

COMM. DEV.
TOWN MANAGER
TOWN CLERK

PROBATE JUDGE

GYM

LIBRARY / TEEN CENTER

TOG
IT DEPT.
OFFICES

TOG
FACILITIES
ADMINISTRATION
OFFICES

TOG
PARK & REC.
ADMINISTRATION
OFFICES

CAFETERIA

KITCHEN

FLAGPOLES

SITTING WALL

PATIO

SITTING AREA

ENTRANCE PATIO

MONUMENT

ANNUALS

LAWN

MULCH

TYP. LIGHT

Existing Fiber-Optic Comm Line

Existing Electric Service

Existing Gas Service

Approx. Location of Water Service

Approx. Location of Electric Service

Approx. Location of Gas Service

Approx. Location of Telephone Line

Approx. Location of CT Valley/Reliant Heating Fiber Optic Comm Line

Existing Fence

Exist. Shrubs to Remain

Exist. Trees and Shrubs

Exist. Tree

Exist. Shrubs

Exist. Yews

Underground Tank

Fin. Floor Elev. 39.48

Fin. Floor Elev. 38.03

Fin. Floor Elev. 37.89

Fin. Floor Elev. 39.44

Fin. Floor T/Step Elev. 39.48

Fin. Floor Elev. 38.01

Fin. Floor Elev. 38.01

Elec. H.H.

EV Charging Station

Elec. Trans.

Water Meter

Existing Fiber-Optic Comm Line

Existing Gas Main

Existing 4" Water

Existing 8" D.I. Water

Abandoned 4" Water

Existing 4" Gas

Existing 8" D.I. Water

Existing 4" Water Service

Existing 1-1/4" Gas Service

Exist. 2" Water Service

Exist. 6" Fire Service

Proposed 8" D.I. Water

CL&P Plantings #2455

CL&P #2456

CL&P #4131

Water Line

Gas Line

Existing Fiber-Optic Comm Line

Existing Gas Main

Existing 8" D.I. Water

Existing 4" Gas

Existing 4" Water

Existing 8" D.I. Water

Existing 4" Water Service

Existing 1-1/4" Gas Service

Exist. 2" Water Service

Exist. 6" Fire Service

Proposed 8" D.I. Water

CL&P Plantings #2455

CL&P #2456

CL&P #4131

Water Line

Gas Line

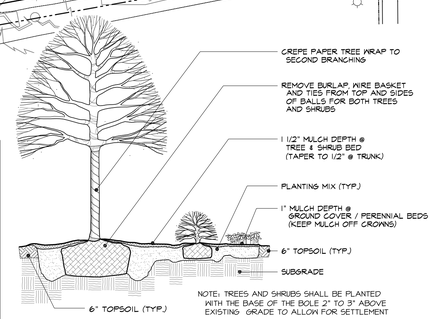
Existing Fiber-Optic Comm Line

Existing Gas Main

GENERAL NOTES PLANTING:

1. AS CONSTRUCTION PROCEEDS, FINE GRADE AND SEED OR SOD AS SOON AS POSSIBLE TO REDUCE RUNOFF.
2. ALL DISTURBED AREAS NOT COVERED BY BUILDING, PAVING, PLANTING BEDS OR OTHER IMPROVEMENTS SHALL BE GRADED, TOPSOILED TO A DEPTH OF 6" AND SEEDED. PLANT BEDS SHALL BE TOPSOILED TO A DEPTH OF 12".
3. IN ALL SHRUB BEDS TO RECEIVE MASS PLANTING, PROVIDE PINE BARK MULCH AS DETAILED. ESTABLISH A NEAT, SMOOTH EDGE BETWEEN MULCH AND LAWN.
4. ADJUSTMENTS IN THE LOCATIONS OF PLANT MATERIALS MAY BE NECESSARY DUE TO LOCATIONS OF UTILITIES. ADJUSTMENTS SHALL BE APPROVED BY THE OWNER'S
5. PROVIDE AND INSTALL ALL PLANTS SHOWN ON THE PLANTING PLAN DRAWINGS; THE QUANTITIES IN THE PLANT LIST ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE ONLY. IF DISCREPANCIES OCCUR, THE DRAWING SYMBOLS PREVAIL OVER THE PLANT LIST QUANTITIES.
6. ANY MEMORIAL PLAQUE OR OBJECT ENCOUNTERED TO BE GIVEN TO THE TOWN FOR DISPOSITION

Town of Glastonbury	Reserved Land Zone
PROJECT/APPLICANT	ZONE
2155 & 2143 Main Street	Town Hall & Academy Building
PROJECT ADDRESS	
Section 12	
SPECIAL PERMIT SECTION	TPZ CHAIRPERSON
January 17, 2017	
DATE SPECIAL PERMIT APP'D	DIRECTOR OF COMMUNITY DEVELOPMENT
FILE NO.	



NOTE: TREES AND SHRUBS SHALL BE PLANTED WITH THE BASE OF THE BOLE 2" TO 3" ABOVE EXISTING GRADE TO ALLOW FOR SETTLEMENT

Planting Detail – Typ.
Not to Scale

REVISIONS
07.21.16 - TOWN COMMENTS

DRAWN BY: CVR
CHECKED BY: JGS

PROPOSED SITE DEVELOPMENT FOR THE: GLASTONBURY TOWN HALL

GLASTONBURY, CONNECTICUT

SITE PLANNING
LANDSCAPE ARCHITECTURE
CR3 LLP
571 HOPMEADOW STREET SIMSBURY, CT (860) 658-1988 FAX (860) 658-1217

NOTES

SHEET NO. 10 of 12

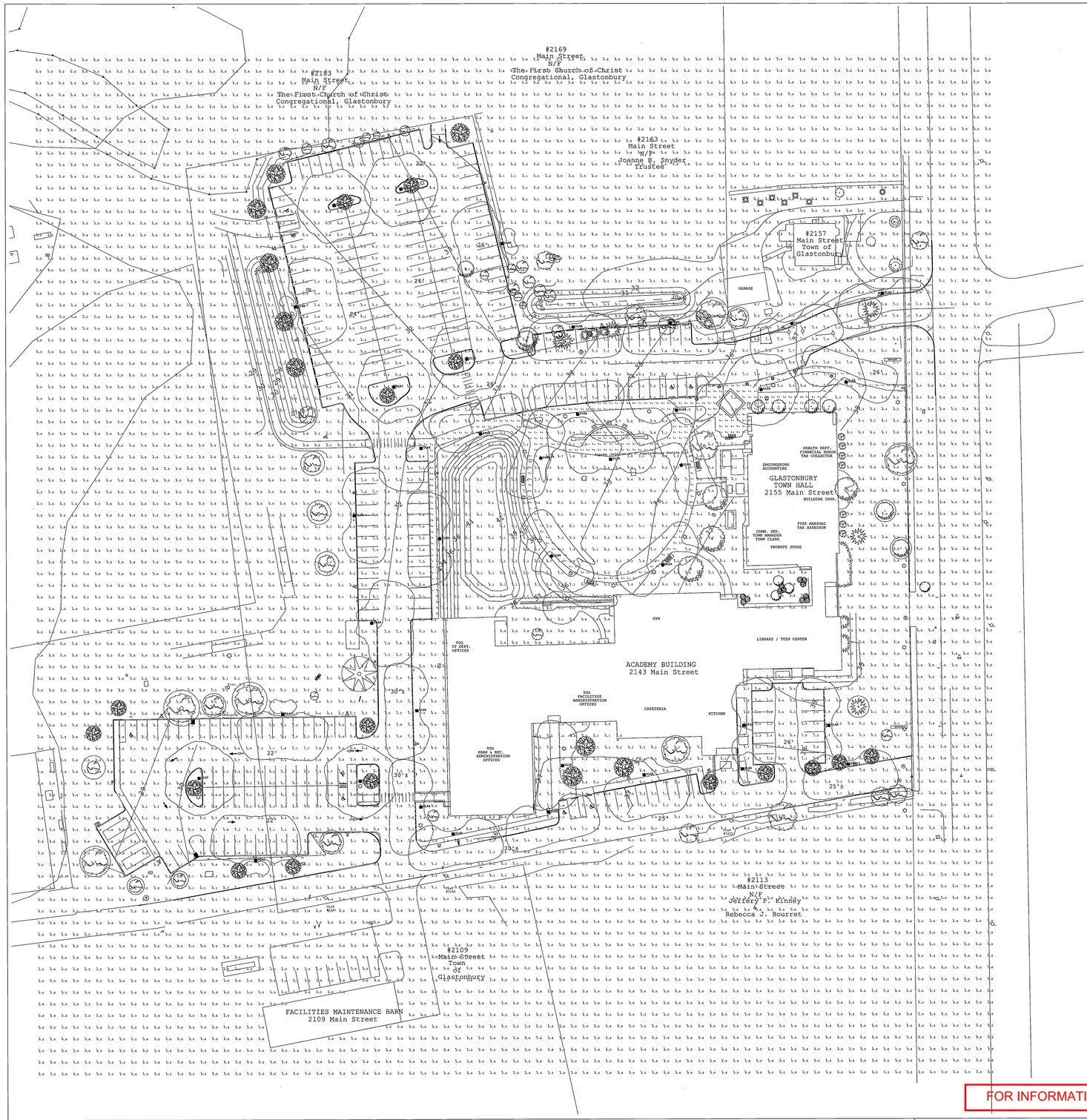
L.1

TITLE
SITE PLANTING PLAN

SCALE 1"-20'

DATE 07.15.16

PROJ. NO. 2016058.00



Town of Glastonbury PROJECT/APPLICANT	Reserved Land Zone ZONE
2155 & 2143 Main Street PROJECT ADDRESS	Town Hall & Academy Building
Section 12 SPECIAL PERMIT SECTION	TPZ CHAIRPERSON
January 17, 2017 DATE SPECIAL PERMIT APP'D	DIRECTOR OF COMMUNITY DEVELOPMENT
FILE NO.	

THIS MAP PRODUCED BY
ORIGINAL INK DRAWING ON
POLY FILM OR LINEN
TOWN OF GLASTONBURY
2155 MAIN STREET
GLASTONBURY, CT 06033

JOB NAME: GLASTONBURY TOWN HALL
APEX LIGHTING SOLUTIONS
WORKPLANE/CALC PLANE: AT FINISH GRADE
MOUNTING HEIGHT: SEE LUMINAIRE SCHEDULE
APPS: LRE
SALES: SF

Luminaire Schedule

Qty	Label	Arrangement	Lumens	Input Watts	LLF	BUG Rating	Description
6	SL2A	SINGLE	6002	64.7	0.799	B2-U3-G2	STERNBERG 6130LED/4ARC3572/MDL03/FHC/CSA/FINISH / MTD TO 10FT POLE
1	SL2B	SINGLE	6002	64.7	0.799	B2-U3-G2	STERNBERG 6130LED/4ARC3572/MDL03/FHC/CSA/FINISH / MTD TO 12FT POLE
5	SL4B	SINGLE	5927	65.2	0.799	B2-U3-G2	STERNBERG 6130LED/4ARC3574/MDL03/FHC/CSA/FINISH / MTD TO 12FT POLE
2	SL4C	SINGLE	5927	65.2	0.799	B2-U3-G2	STERNBERG 6130LED/4ARC3574/MDL03/FHC/CSA/FINISH / MTD TO 14FT POLE
1	SL4E	SINGLE	5927	65.2	0.799	B2-U3-G2	STERNBERG 6130LED/4ARC3574/MDL03/HS/FHC/CSA/FINISH / MTD TO 14FT POLE
1	SL5B	SINGLE	5951	65.1	0.799	B3-U3-G3	STERNBERG 6130LED/4ARC3575/MDL03/FHC/CSA/FINISH / MTD TO 12FT POLE
6	SL5C	SINGLE	5951	65.1	0.799	B3-U3-G3	STERNBERG 6130LED/4ARC3575/MDL03/FHC/CSA/FINISH / MTD TO 14FT POLE
14	SL6B	SINGLE	5928	64.7	0.799	B2-U3-G2	STERNBERG 6130LED/4ARC3573R/MDL03/FHC/CSA/FINISH / MTD TO 12FT POLE
2	SL6E	SINGLE	5928	64.7	0.799	B2-U3-G2	STERNBERG 6130LED/4ARC3573R/MDL03/HS/FHC/CSA/FINISH / MTD TO 12FT POLE

Calculation Summary

Label	Grid Height	Avg	Max	Min	Avg/Min	Max/Min
CalcPts_1	0	0.23	3.6	0.0	N.A.	N.A.
WALKWAY	0	1.50	3.8	0.0	N.A.	N.A.
PARKING & DRIVE LANES		0.80	2.5	0.0	N.A.	N.A.

FOR INFORMATION ONLY

GENERAL DISCLAIMER:
Calculations have been performed according to IES standards and good practice. Some differences between measured values and calculated results may occur due to tolerances in calculation methods, testing procedures, component performance, measurement uncertainty, field conditions, and normal fluctuations in voltage variations. Input data used to generate the attached calculations such as room dimensions, reflectances, furniture and architectural elements significantly affect the calculated results. If actual field conditions are different from the assumed input data, differences will occur between measured values and calculated values.

* LLF Determined Using Current Published Lamp Data

NOTE TO REVIEWER:
Total Light Loss Factor (LLF) applied at time of design is determined by applying the Lamp Lumen Depreciation Factor (LLD) listed in the manufacturer's photometric report, the Luminaire Dirt Depreciation Factor (LDD) based on the recommended values and a Ballast Factor (BF) from current ballast specification sheets. Application of an incorrect Light Loss Factor (LLF) will result in forecasts of performance that differ from actual performance.

For proper comparison of photometric layouts, it is essential that you insist all designers use correct Light Loss Factors.

APEX LIGHTING SOLUTIONS
THE POINT WHERE ALL ADDING LINES CONVERGE
TELEPHONE 860.632.8766
WWW.APEXLIGHTINGSOLUTIONS.COM

PROJECT TITLE:
GLASTONBURY
TOWN HALL

DRAWING TITLE:
SITE LIGHTING
PHOTOMETRIC CALCULATION

FILE NAME: SL-1A GLASTONBURY TOWN HALL 12-9-2016-FILLING.DWG

SCALE : None ~~1"=30'-0"~~
DATE: 4/24/17
DRAWN BY: LRE
SHEET: 11 of 12

SL-1A

FILE: H:\DWG\Streets\Main St\PW-0908 ACADEMY SCHOOL SITE IMPROVEMENTS\Transfers\Irrigation\Town Hall Academy Ed-Cheshire-17-080-2-CFS.dwg USER: Charles Steinhilper DATE: 5/5/2017

LEGEND FOR IRRIGATION

Irrigation Pipe Table

Quantity	Symbol	Pipe
2120'		PVC MAIN: CLASS 200 2" SW PVC PIPE W/ WIRE
3500'		DRIPPERLINE: NETAFIM TLDL-6-18, 18" ROW, STAPLE EVERY 2'
300'		POLY LATERALS FOR DRIP: 100 PSI 1" POLY PIPE
1140'		PVC LATERALS: CLASS 200 1 1/2" SW PVC PIPE
5500'		POLY LATERALS: 100 PSI 1" POLY PIPE
440'		PVC SLEEVES: CLASS 200 4" PVC PIPE (BY OWNER)
3000', 2500'	(no symbol)	WIRE: #18/16 UF MULTI-STRAND (3-RUNS) & #12/1 UF WHITE COMMON

* PIPE & WIRE QUANTITIES ARE ROUNDED TO THE NEAREST ROLL OR LENGTH.

Irrigation Equipment Table

Quantity	Symbol	Equipment
17		ZONE VALVE: HUNTER PGV-151G 1 1/2" W/ BALL VALVE
9		ZONE VALVE: HUNTER PGV-101G 1" W/ BALL VALVE
6	DRIP	DRIP VALVE: HUNTER PCZ-101-40 1" W/ BALL VALVE
5		ISOLATION VALVES: APOLLO BALL VALVE, LINE SIZED
3		QUICK COUPLER VALVE: HUNTER 1" HQ-44 W/ HK-44 KEY
2	C	CONTROLLER: WEATHERMATIC SMARTLINE SL1624 (SEE NOTES)
2	R	RAIN SENSOR: WEATHERMATIC SLW1
1		NEW POINT OF CONNECTION: 2" @ 85 PSI. INSTALL BALL VALVE W/ DRAIN.
1		NEW BLOW OUT: TEE CONNECTION
		EXISTING BACKFLOW AT BALLFIELDS
		DRIP INDICATORS & FLUSH VALVES AS NEEDED FOR DRIP ZONES

Irrigation Heads Table

Quantity	Symbol	Sprinkler Heads
18		MEDIUM ROTARY SPRINKLER: HUNTER PGP-04-5, FULL CIRCLE
131		MEDIUM ROTARY SPRINKLER: HUNTER PGP-04-2.5, ADJUSTABLE
138	MP2	SPRAY HEAD: HUNTER PROS-04-PRS40-CV, MP2000
4	MP1	SPRAY HEAD: HUNTER PROS-04-PRS40-CV, MP1000
9	SS	SPRAY HEAD: HUNTER PROS-04, SS530
3	RC	SPRAY HEAD: HUNTER PROS-04, RCS515
17	12	SPRAY HEAD: HUNTER PROS-04, 12A

NOTES FOR IRRIGATION

1) SYSTEM IS DESIGNED FOR 2 TO 37 GPM PER ZONE. PRESSURE HAS BEEN REPORTED AS 100 PSI STATIC, 85 PSI RESIDUAL..

WATER (EX. 2" @ SOFTBALL) & POWER (EX. ELECTRIC ON POLE) ARE EXISTING

FIELD LOCATE WEATHER SENSOR, 1 SENSOR PER CONTROLLER, ON POLE. WIRES, CONNECTORS, & CONDUIT AS NEEDED.

SLEEVES: ALL 4" CL 200 PVC, BY OWNER
ROAD CUTS, SLEEVE LOCATING, BORING BY THE TOWN

2) FOLLOW ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS.

3) DESIGN IS DIAGRAMMATIC. INSTALLER SHALL FIELD LOCATE ALL ITEMS WITHOUT COMPROMISING THE INTEGRITY OF THIS DESIGN. ANY CHANGES TO THE NUMBER OF HEADS OR VALVES, OR TO THE HYDRAULICS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF WORK. PIPE ROUTING, HEAD AND VALVE PLACEMENT SHALL BE THE RESPONSIBILITY OF THE INSTALLER, USING THIS DESIGN AS A GUIDE.

4) AVERAGE RUN TIMES PER ZONE TO ACHIEVE 1" OF WATER PER WEEK IS AS FOLLOWS:
ROTARY & MP: 30 MINUTES PER DAY (MIN/DAY); SPRAY: 15 MIN/DAY; DRIP: 30 MIN/DAY.
END USER SHALL PROPERLY ADJUST RUN TIMES FOR CHANGING FIELD AND SEASONAL CONDITIONS.

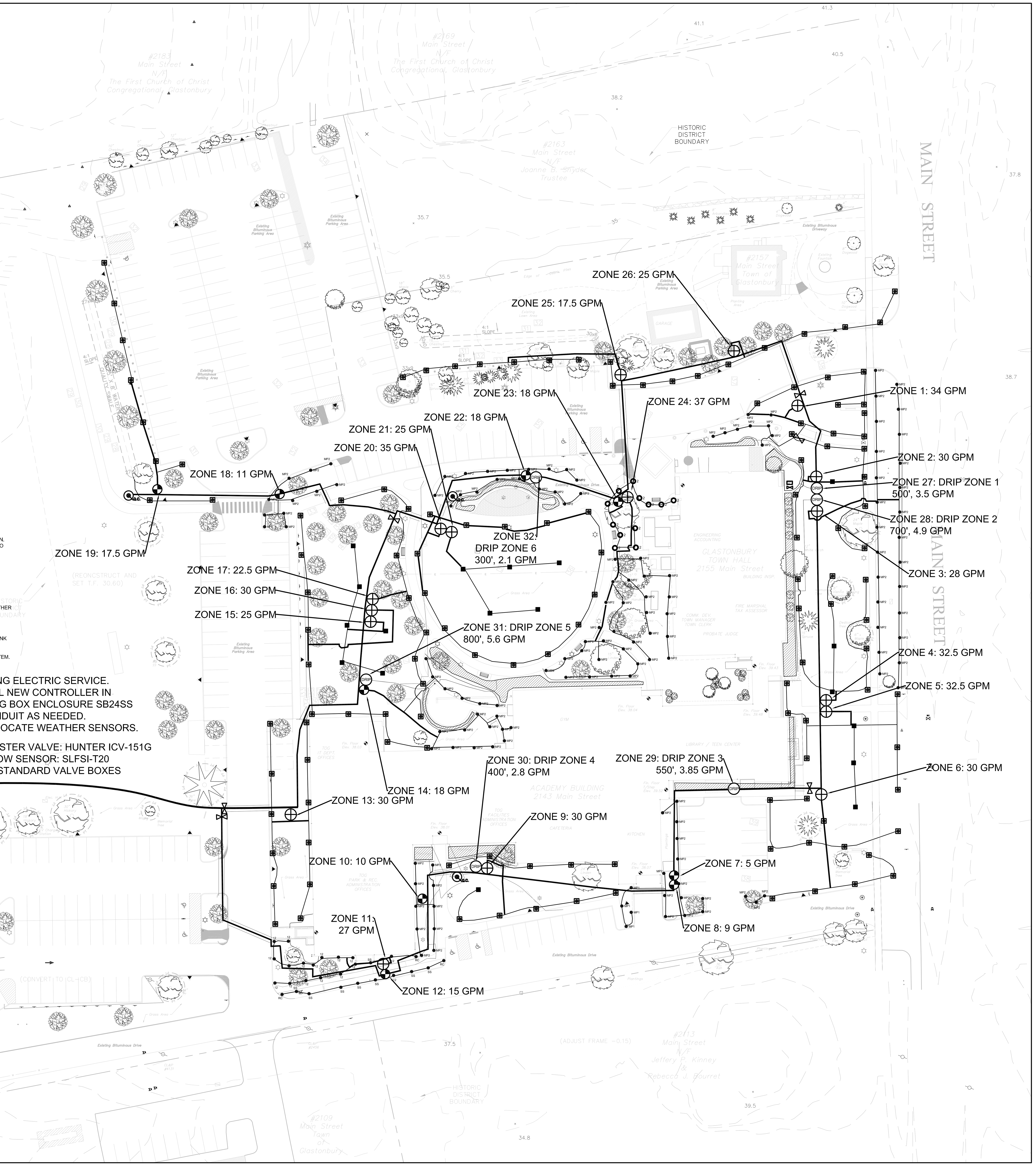
5) IRRIGATION INSTALLER IS RESPONSIBLE FOR, BUT NOT LIMITED TO THE COMPLETE INSTALLATION OF THIS IRRIGATION SYSTEM. FOLLOW ALL APPLICABLE CODES AND LAWS. CONTACT A UTILITY MARKING COMPANY PRIOR TO THE COMMENCEMENT OF WORK. IRRIGATION WORK TO INCLUDE ATTACHING TO THE WATER SUPPLY, VERIFYING THE PRESSURE,CONTROLLER INSTALLATION, WEATHER SENSOR INSTALLATION, VALVES, SPRINKLERS, DRIP, PIPE & WIRE, AND RELATED ITEMS.

ALL WORK SHALL BE COORDINATED WITH THE TOWN PRIOR TO THE BID FINALIZAION.

6) CONTROLLER TO INCLUDE THE FOLLOWING: FLOW BUNDLE PACKAGE, WIRELESS WEATHER SENSOR, AIR CARD, 2 YEAR SMARTLINK SERVICE, MASTER VALVE & FLOW SENSOR AND REQUIRED MODULES FOR (2) 24 STATION CONTROLLERS.

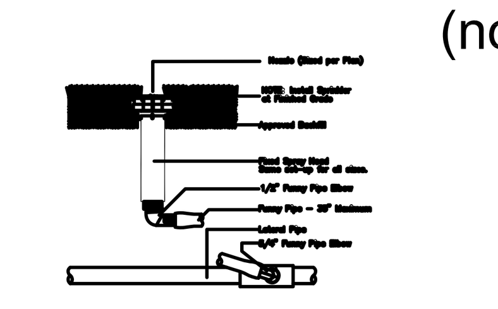
THERE WILL BE (2) CONTROLLERS. THERE ARE (8) ZONES ON THE TOWN ACADEMY FIELD THAT SHALL BE ADDED TO THIS NEW SYSTEM.

CONTROLLER DETAILS AND INSTALLATION INSTRUCTIONS ARE AVAILABLE AT WWW.WEATHERMATIC.COM



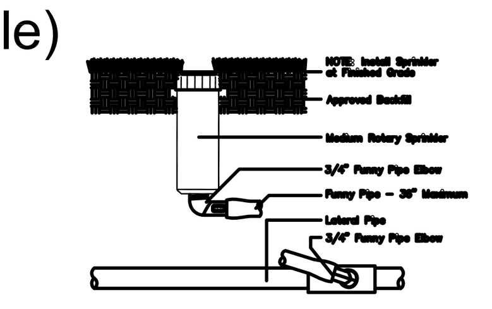
DETAILS FOR IRRIGATION

(not to scale)



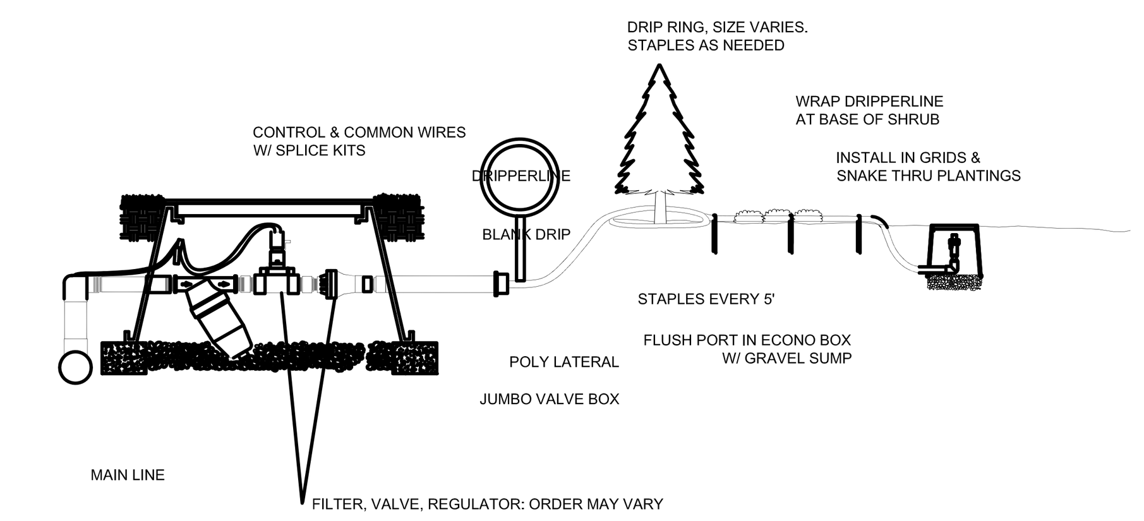
1/2" INLET SPRINKLER

(SIDE ELEVATION - NOT TO SCALE)



3/4" INLET SPRINKLER

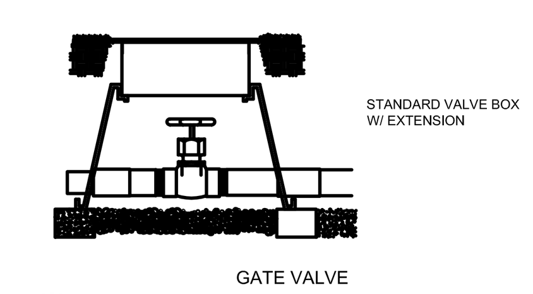
(SIDE ELEVATION - NOT TO SCALE)



* FITTINGS AS NECESSARY
* ATTACHMENT TO MAINLINE MAY VARY

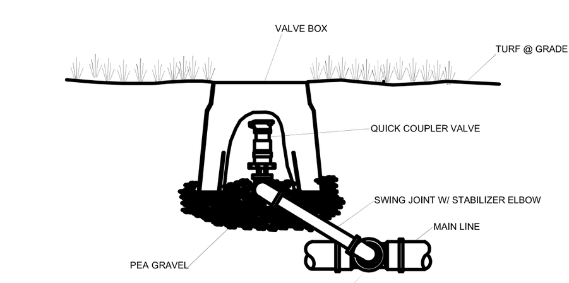
DRIP SYSTEM SET UP

(SIDE ELEVATION - NOT TO SCALE)



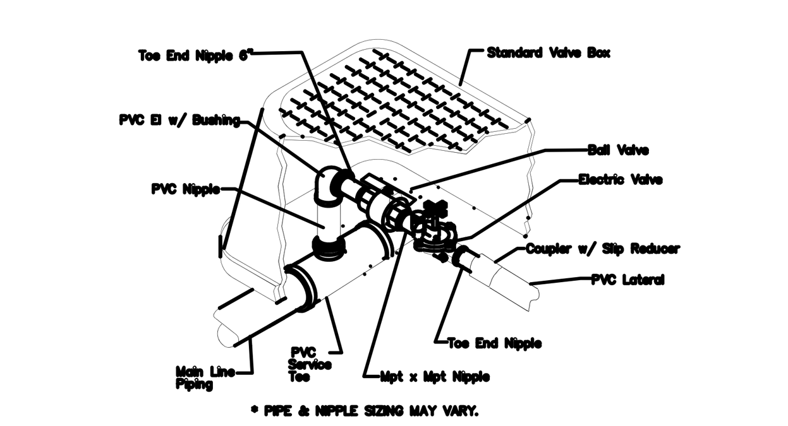
SHUT OFF

(not to scale)



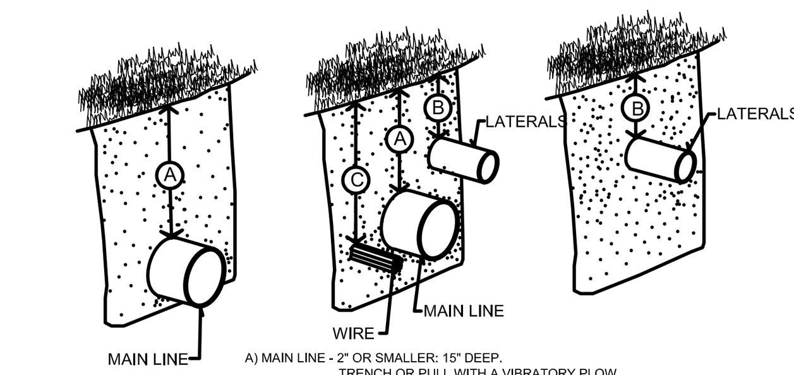
QUICK COUPLER

(NOT TO SCALE)



VALVE SET-UP

(ISOMETRIC VIEW - NOT TO SCALE)



A) MAIN LINE - 2" OR SMALLER: 15" DEEP.
TRENCH OR PULL WITH A VIBRATORY PLOW.

B) LATERALS - 12" DEEP.
TRENCH OR PULL WITH A VIBRATORY PLOW.

C) WIRE - 15" DEEP.
TRENCH OR PULL WITH THE PVC MAIN. INSTALL IN CONDUIT IF NECESSARY. ADD 12" EXPANSION LOOP AT EVERY DIRECTION CHANGE AND EVERY 100'.

D) SLEEVES (NOT SHOWN): 12" TO 18" BELOW BOTTOM OF WALK OR ROAD.

E) BORING AND ROAD CUTTING IS REQUIRED.

PIPE RULE OF THUMB: DEPTH TO TOP OF PIPE TO BE 6 TIMES DIAMETER

PIPE & WIRE

(ELEVATION - NOT TO SCALE)

IRRIGATION CONTROLLER
DETAILS AVAILABLE AT:
WWW.WEATHERMATIC.COM

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.
IF SCALING FROM THIS PLAN, VERIFY SCALE WITH THE GRAPHIC SCALE PROVIDED ABOVE.

PW-0908

DRAWING ISSUE STATUS		
1.	ISSUED FOR LANDSCAPING BID	5/5/2017
NO.	DESCRIPTION	DATE

SCALE: AS SHOWN	DATE:
DRAWN BY: ELB	4/18/17
CHECKED BY: ELB	----
APPROVED BY: ELB	----
ST. FILE:	

DO NOT SCALE THIS DRAWING. USE THE DIMENSIONS GIVEN. IF THERE ARE ANY DISCREPANCIES OR QUESTIONS, CONTACT THE TOWN OF GLASTONBURY, ENGINEERING OFFICE.

GRID NORTH

IRRIGATION

PLAN DEPICTING NEW IRRIGATION
TOWN HALL / ACADEMY COMPLEX
DRIVE & PARKING RECONFIGURATION
LOCATED AT
2155 / 2143 MAIN STREET
GLASTONBURY, CONNECTICUT

SHEET NO. 12 OF 12