

**TOWN OF EAST HARTFORD
PLANNING & ZONING COMMISSION
APPLICATION FORM**

DATE: 4/5/19

Official Receipt Date:

6 / 19 / 19

1. APPLICATION TYPE: (CHECK ALL THAT APPLY)

***COMPLETE SECTION ON PAGE 2 OR 3**

- | | |
|---|--|
| <input type="checkbox"/> SITE PLAN APPLICATION | <input type="checkbox"/> NATURAL RESOURCES REMOVAL AND FILLING |
| <input type="checkbox"/> SITE PLAN MODIFICATION | <input type="checkbox"/> SPECIAL USE PERMIT* |
| <input type="checkbox"/> FLOOD HAZARD – MAJOR* | <input type="checkbox"/> ZONING MAP CHANGE* |
| <input type="checkbox"/> FLOOD HAZARD – MINOR* | <input type="checkbox"/> TEXT AMENDMENT* |
- ☐ SITE LOCATION APPROVAL →
VEHICLE SALES ▶ ☐ NEW ☐ USED
REPAIRER ▶ ☐ LIMITED ☐ GENERAL
FUEL SALES ▶ ☐ FILLING STATION
- ☒ SOIL EROSION AND SEDIMENTATION - Cumulative disturbed area (sq. ft.): 50,273 (1.15 acres)

2. SITE AND PROJECT INFORMATION

PROPERTY ADDRESS: Ensign Street ZONE: R-4

ASSESSORS MAP AND LOT: _____ PARCEL SIZE (ACRES OR SQ. FT.): _____

PROJECT NAME: Ensign Street Drainage Design

PROJECT DESCRIPTION (ATTACH ADDITIONAL SHEETS IF NEEDED):
See General Narrative


3. PROPERTY OWNER INFORMATION

☐ CHECK IF PRIMARY CONTACT

OWNER OF RECORD: Town of East Hartford

OWNER ADDRESS: 740 Main Street, East Hartford, CT 06108

OWNER PHONE: 860-291-7100 OWNER EMAIL: _____

OWNER SIGNATURE:  PRINT NAME: Tom Baptist

The undersigned owner hereby authorizes: (1) this application, and (2) the Planning and Zoning Commission and Town of East Hartford staff the right to enter upon the property for the purposes of inspection associated with this application.

4. APPLICANT INFORMATION

☐ CHECK IF PRIMARY CONTACT

☐ CHECK IF APPLICANT IS SAME AS PROPERTY OWNER

APPLICANT: Capitol Region Development Authority

APPLICANT ADDRESS: 100 Columbus Boulevard, Suite 500, Hartford, CT, 06103-2819

APPLICANT PHONE: 860-527-0100 APPLICANT EMAIL: _____

APPLICANT SIGNATURE: _____ PRINT NAME: _____

5. DESIGN PROFESSIONAL INFORMATION

☐ CHECK IF PRIMARY CONTACT

FIRM: Zuvic, Carr and Associates, Inc. PHONE: 860-899-1919

CONTACT PERSON: Galen Semprebon, P.E. EMAIL: galen@zuvic.com

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APPLICANT SIGNATURE: [Signature] PRINT NAME: Robert Sainf

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CONTACT PERSON: Galen Semprebon, P.E. EMAIL: galen@zuvic.com

General Narrative
Planning & Zoning Commission Application for Permit
Ensign Street Drainage Improvements

June, 2019

The purpose of the project is to provide for expansion of the existing storm sewer system to address existing capacity issues within the existing system, and accommodate additional runoff from future development on the east side of Route 2 in this area.

The proposed improvements to the site include construction of a 36" equivalent sized and 24" reinforced concrete trunk storm sewer with catch basins connected into the trunk sewer with pipes ranging from 12" to 18" in size. The storm drainage installation includes full depth, curb to curb pavement restoration along with bituminous and granite curbs and concrete sidewalk reconstruction where required.

Construction activities include installation of temporary erosion and sediment controls (hay bales/silt sacks/silt fence). Trenches will be excavated, with drainage structures installed and backfilled. Open trench excavation will be limited to the amount of pipe that can be installed that day. Temporary trench repair will be constructed at the conclusion of each work day. Upon completion of storm drainage installation, all bituminous pavement and curbing will be removed for full depth reconstruction. Sidewalks, turf and all other areas disturbed by construction will be restored at the completion of reconstruction.

The tentative schedule is to begin construction the summer/fall of 2019, and should be completed by the Fall of 2020.

GOODWIN COLLEGE
ONE RIVERSIDE DRIVE EAST HARTFORD, CT
ENSIGN STREET DRAINAGE DESIGN
EAST HARTFORD, CT
PROJECT NUMBER

1962

OCTOBER, 2018

REVISED JUNE 7, 2019

PLANNING AND ZONING
COMMISSION APPLICATION

☒ EROSION AND SEDIMENT CONTROL PLAN



PROJECT SITE - PROPERTY OF GOODWIN COLLEGE

NO.	MAP-LOT	PROPERTY ADDRESS
1	10-79	84-86 ENSIGN STREET
2	10-80	82 ENSIGN STREET
3	10-81	76 ENSIGN STREET
4	10-82	74-72 ENSIGN STREET
5	10-83	66 ENSIGN STREET
7	10-85	58-56 ENSIGN STREET
8	10-86	54-52 ENSIGN STREET
9	10-87	50-48 ENSIGN STREET
11	10-89	38-36 ENSIGN STREET
12	10-91	26 ENSIGN STREET
13	10-92	24 ENSIGN STREET
16	10-98	373 MAIN STREET
17	10-54	83 ENSIGN STREET
18	10-53	81 ENSIGN STREET
19	10-52	77 ENSIGN STREET
20	10-51	71 ENSIGN STREET
21	10-50	63 ENSIGN STREET
22	10-49	57 ENSIGN STREET
23	10-48	53-55 ENSIGN STREET
24	10-47	47 ENSIGN STREET
25	10-46	43 ENSIGN STREET
26	10-45	33 ENSIGN STREET
27	10-44	27-29 ENSIGN STREET
28	10-43	21-23 ENSIGN STREET
29	10-42	13-15 ENSIGN STREET
30	10-41	9 ENSIGN STREET
31	10-40	365 MAIN STREET

ABUTTING PROPERTY OWNERS				
NO.	MAP-LOT	PROPERTY ADDRESS	OWNER NAME	OWNER ADDRESS
6	10-84	62 ENSIGN STREET	TOMBARI G. & CATHERINE B. MCFINI	62 ENSIGN STREET EAST HARTFORD, CT 06118
10	10-88	44 ENSIGN STREET	PSALM D. JOHNSON	44 ENSIGN STREET EAST HARTFORD, CT 06118
14	10-93	18 ENSIGN STREET	ROLAND L. VEGIARD	18 ENSIGN STREET EAST HARTFORD, CT 06118
15	10-96	14 ENSIGN STREET	ROLAND L. VEGIARD & ROLAND LEE VEGIARD	14 ENSIGN STREET EAST HARTFORD, CT 06118



PREPARED FOR



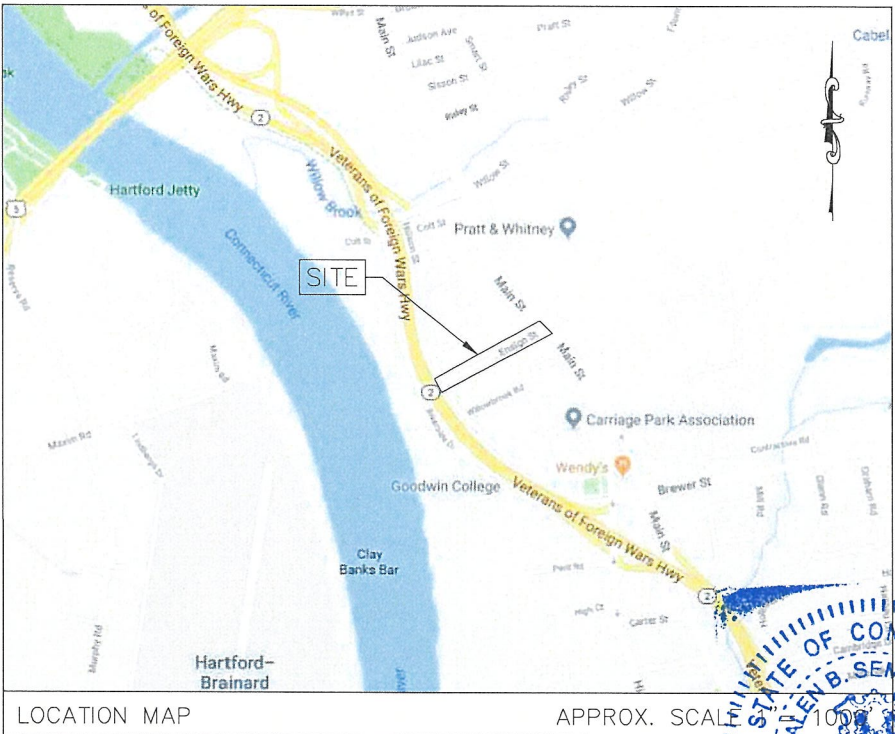
PREPARED BY

INSPECTION NOTES

1. THE DEVELOPER SHALL NOTIFY THE TOWN OF EAST HARTFORD ENGINEERING DIVISION 24 HOURS PRIOR TO BEGINNING ANY STORM DRAINAGE, ROADWAY PREPARATION, PAVING, SIDEWALK, CURBING, STREET LINE MONUMENTATION, PROPERTY CORNER PINS, ETC., TO SCHEDULE INSPECTIONS. THE DIVISION CAN BE REACHED BETWEEN 8:30 A.M. - 4:30 P.M. AT 291-7380.
2. THE TOWN SHALL BE NOTIFIED IN WRITING AT LEAST 2 DAYS IN ADVANCE OF THE PRE-CONSTRUCTION MEETING BETWEEN THE CONTRACTOR AND THE ENGINEER.

LIST OF DRAWINGS

--	COVER SHEET
GN-1	GENERAL NOTES AND LEGENDS
EC-1	EXISTING CONDITIONS PLAN
EC-2	EXISTING CONDITIONS PLAN
DP-1	DEMOLITION AND EROSION CONTROL PLAN
PP-1	PLAN AND PROFILE
PP-2	PLAN AND PROFILE
RR-1	ROADWAY RECONSTRUCTION PLAN
GP-1	INTERSECTION GRADING PLAN
CD-1	CIVIL DETAILS
CD-2	CIVIL DETAILS
CD-3	CIVIL DETAILS



LOCATION MAP

APPROX. SCALE 1"=100'



FILE PATH: H:\Projects\Goodwin College\1992 - Ensign Drainage Design\AutoCAD\1992 - GN-1.dwg PLOT DATE: 6/7/2019 PLOT TIME: 1:12:35 PM

GENERAL NOTES

1.

ALL CONSTRUCTION ACTIVITIES SHALL BE COMPLETED AS INDICATED IN THE CONTRACT DOCUMENTS AND SHALL COMPLY WITH THE REQUIREMENTS OF THE TOWN OF EAST HARTFORD, AND THE CONNECTICUT DEPARTMENT OF TRANSPORTATION (CT DOT) STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES AND INCIDENTAL CONSTRUCTION, FORM 817, DATED 2016, WITH LATEST UPDATES.
2.

THE CONTRACTOR SHALL NOTIFY ALL LOCAL UTILITY COMPANIES PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL ARRANGE FOR AND COORDINATE WITH THE RESPECTIVE UTILITY COMPANIES AND THE TOWN OF EAST HARTFORD FOR UTILITY LINE RELOCATIONS.
3.

THE CONTRACTOR SHALL MAINTAIN ONE SET OF CONTRACT DOCUMENTS ON THE PREMISES IN GOOD CONDITION AT ALL TIMES. THE SET SHALL INCLUDE ALL ADDENDA AND CHANGE ORDERS.
4.

THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS IN THE FIELD AND CONTACT THE CONSTRUCTION MANAGER IF THERE ARE ANY QUESTIONS OR CONFLICTS REGARDING THE CONTRACT DOCUMENTS AND/OR FIELD CONDITIONS SO THAT APPROPRIATE REVISIONS CAN BE MADE PRIOR TO CONSTRUCTION. ANY CONFLICT BETWEEN THE DRAWINGS AND THE SPECIFICATIONS SHALL BE CONFIRMED WITH THE CONSTRUCTION MANAGER PRIOR TO BIDDING.
5.

STATED DIMENSIONS TAKE PRECEDENCE OVER GRAPHICS. DO NOT SCALE DRAWINGS TO DETERMINE LOCATION AND/OR DIMENSIONS.
6.

ALTERNATIVE METHODS AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED IF REVIEWED AND APPROVED BY THE ENGINEER, AND THE APPROPRIATE REGULATORY AGENCIES PRIOR TO INSTALLATION.
7.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES, STRUCTURES AND OTHER SITE FEATURES NOT BEING REMOVED AND/OR ALTERED DURING CONSTRUCTION. THE CONTRACTOR SHALL BEAR THE EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH EXECUTION OF THE WORK.
8.

THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL REQUIRED SUBMITTALS TO THE CONSTRUCTION MANAGER AND SITE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY TO THE SITE. ALLOW A MINIMUM OF 15 WORKING DAYS FOR REVIEW.
9.

THE CONTRACTOR SHALL PROVIDE AS-BUILT RECORDS OF ALL CONSTRUCTION (INCLUDING UTILITIES) TO THE TOWN AT THE END OF CONSTRUCTION.
10.

THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC DEVICES FOR PROTECTION OF VEHICLES AND PEDESTRIANS CONSISTING OF DRUMS, BARRIERS, SIGNS, LIGHTS, FENCES AND UNIFORMED TRAFFIC MEN AS REQUIRED OR ORDERED BY THE CONSTRUCTION MANAGER OR AS REQUIRED BY THE LOCAL GOVERNING AUTHORITIES.
11.

INFORMATION ON EXISTING UTILITIES HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY COMPANY AND MUNICIPAL RECORD MAPS AND FIELD SURVEY AND IS NOT GUARANTEED CORRECT OR COMPLETE. THE LOCATIONS ARE APPROXIMATE. ALL UTILITIES MAY NOT BE SHOWN. PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL NOTIFY "CALL BEFORE YOU DIG" AT 1-800-922-4455.
12.

THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF SUPPORT FOR PROTECTION OF PERSONNEL DURING EXCAVATION AND BACKFILLING OPERATIONS.
13.

THE CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO ANY WORK AND SHALL BE RESPONSIBLE FOR ALL WORK AND MATERIALS INCLUDING THOSE FURNISHED BY THE SUBCONTRACTORS.
14.

SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED, EXISTING PIPE OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, CONSULT THE ENGINEER AND RESPECTIVE UTILITY COMPANY IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH THE WORK IN THIS AREA.
15.

DO NOT INTERRUPT EXISTING UTILITIES SERVICING ADJACENT PROPERTIES EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER.
16.

OSHA REGULATIONS MAKE IT UNLAWFUL TO OPERATE CRANES, BOOMS, HOISTS, ETC. WITHIN TEN (10) FEET OF ANY ELECTRIC LINE UNDER 50 KV. IF CONTRACTOR MUST OPERATE EQUIPMENT CLOSE TO ELECTRIC LINES, CONTACT POWER COMPANY TO MAKE ARRANGEMENTS FOR PROPER SAFEGUARDS.
17.

THE CONSTRUCTION MANAGER SHALL RETAIN AN INDEPENDENT TESTING LABORATORY FOR SOIL AND PAVEMENT TESTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COSTS INCURRED DUE TO SCHEDULING ISSUES OR FOR REPEATED TESTING DUE TO IMPROPER CONSTRUCTION TECHNIQUES.
18.

THE SITE CONTRACTOR SHALL NOTIFY THE TOWN OF EAST HARTFORD PRIOR TO COMMENCEMENT OF PAVING WITHIN TOWN RIGHTS OF WAY AND ON-SITE DRAINAGE WORK.
19.

NO DEMOLITION OR CONSTRUCTION ACTIVITIES SHALL BEGIN UNTIL APPROVAL OF THE FINAL PLANS IS GRANTED BY ALL LOCAL AND STATE GOVERNING AND REGULATORY AGENCIES.
20.

ALL DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PREMISES AND SHALL BE PROPERLY DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. ALL AREAS SHALL BE KEPT IN A NEAT AND ORDERLY MANNER AT ALL TIMES.
21.

CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THE SAFETY OF THE OCCUPANTS AND WORKERS AT ALL TIMES.
22.

ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION AND NOTIFICATION GIVEN TO THE TOWN FOR INSPECTION AS REQUIRED.
23.

UTILITY CONNECTION LOCATIONS AS DEPICTED ON THESE DRAWINGS MAY CHANGE SUBJECT TO REVIEW BY THE APPLICABLE UTILITY COMPANY.
24.

ALL UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE TOWN OF EAST HARTFORD, THE APPLICABLE UTILITY COMPANY REQUIREMENTS, AND AS SPECIFIED ON THE DRAWINGS.
25.

ALL UTILITY CONSTRUCTION IS SUBJECT TO INSPECTION PRIOR TO BACKFILLING IN ACCORDANCE WITH THE APPLICABLE UTILITY COMPANY AND/OR THE REQUIREMENTS OF THE TOWN OF EAST HARTFORD.
26.

ALL DISTURBANCE INCURRED WITHIN THE STATE OR TOWN OF EAST HARTFORD'S RIGHT-OF-WAY DUE TO CONSTRUCTION SHALL BE RESTORED TO ITS PREVIOUS CONDITION OR BETTER, TO THE SATISFACTION OF THE DEPARTMENT OF TRANSPORTATION OR PUBLIC WORKS REPRESENTATIVE.
27.

THE CONTRACTOR SHALL VERIFY THE ELEVATION AND LOCATION OF ALL UTILITIES BY VARIOUS MEANS PRIOR TO BEGINNING ANY EXCAVATION. THE CONTRACTOR SHALL CONTACT THE CONSTRUCTION MANAGER IN THE EVENT OF ANY UNFORESEEN CONFLICTS BETWEEN EXISTING AND PROPOSED UTILITIES SO THAT APPROPRIATE MODIFICATIONS MAY BE MADE.
28.

WORK IN CLOSE PROXIMITY AND RELOCATION OF UTILITY COMPANY FACILITIES, SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY OWNER. UTILITIES WITHIN THE PROJECT LIMITS INCLUDE MDC, CNG, EVERSOURCE, AND OTHERS.
29.

ALL DRAINAGE PIPING SHALL BE REINFORCED CONCRETE PIPE (RCP) CLASS IV WITH RUBBER GASKET IN ACCORDANCE WITH ASTM-C-76 AND ASTM-C-443 UNLESS SHOWN OTHERWISE ON THE PLANS.
30.

THE CONTRACTOR SHALL COMPACT FILL IN 8" MAXIMUM LIFTS UNDER ALL ROADWAY AREAS.
31.

THE CONTRACTOR SHALL COMPACT THE PIPE BACKFILL IN 12" LIFTS ACCORDING TO THE PIPE TRENCH DETAIL. THE TRENCH BOTTOM SHALL BE STABLE IN HIGH GROUNDWATER AREAS.
32.

ALL UTILITIES AND PIPES SCHEDULED FOR DEMOLITION SHALL BE REMOVED UNLESS NOTED OTHERWISE.
33.

CONTRACTOR SHALL BE PREPARED AT ALL TIMES TO SWEEP THE SURROUNDING ROADWAYS AS REQUIRED BY THE TOWN.
34.

LIME AND FERTILIZER FOR TURF ESTABLISHMENT SHALL CONFORM TO CTDOT FORM 817 M 13.02 AND M 13.03.

ABBREVIATIONS

(NOT ALL ABBREVIATIONS MAY BE USED)

ABAND.	ABANDONED	LP	LOW POINT
APPROX.	APPROXIMATE	MH	MANHOLE
BCLC	BITUMINOUS CONCRETE LIP CURB	NPT	NATIONAL PIPE TREAD
BOT.	BOTTOM	NTS	NOT TO SCALE
BIT.	BITUMINOUS	O.C.	ON CENTER
CB	CATCH BASIN	O.D.	OUTSIDE DIAMETER
C.I.P.	CAST IRON PIPE	R	RADIUS
CLF	CHAIN LINK FENCE	RCP	REINFORCED CONCRETE PIPE
COMM.	COMMUNICATIONS	RCPA	REINFORCED CONCRETE PIPE-ARCH
D.I.	DUCTILE IRON	P.V.M.T.	PAVEMENT
D.I.P.	DUCTILE IRON PIPE	PVC	POLYVINYL CHLORIDE
DEG.	DEGREES	SAN.	SANITARY
CU.	DIAMETER	SCHED.	SCHEDULE
DMH	DRAINAGE MANHOLE	SMH	SANITARY MANHOLE
ELEC.	ELECTRICAL	S.S.	STAINLESS STEEL
EL.	ELEVATION	STORM	STORM
EMH	ELECTRICAL MANHOLE	TEMP.	TEMPORARY
EOP	EDGE OF PAVEMENT	TEL.	TELEPHONE
EXIST.	EXISTING	TF	TOP OF FRAME
F.F.	FINISHED FLOOR	TOG	TOP OF GRADE
FLR	FLOOR	TOS	TOP OF SLAB
G	GAS	TYP.	TYPICAL
GM	GAS METER	UKNW	UNKNOWN
GTD	GRADE TO DRAIN	W	WATER
HH	HANDHOLE	WV	WATER VALVE
HP	HIGH POINT	YD	YARD DRAIN
HYD	HYDRANT		
I.D.	INSIDE DIAMETER		
INV.	INVERT		

LEGEND

(NOT ALL SYMBOLS MAY BE USED)

---	PROPERTY LINE	Δ	CONTROL POINT
----	EASEMENT LINE	□	MONUMENT
=====	CURB	○/P	IRON PIPE
-----	EDGE OF PAVEMENT (EOP)	○/PIN	IRON PIN
---[35]---	MAJOR CONTOUR	WETLAND FLAG	
---[31]---	MINOR CONTOUR	TYPE 'C' CATCH BASIN	
×[31.75]	SPOT ELEVATION	TYPE 'CL' CATCH BASIN	
×[31.75] ×[30.75]	TOP/BOTTOM OF CURB EL.	YARD DRAIN	
---12" RCP---	PIPES × 12" (SIZE, MATERIAL, AND FLOW DIRECTION)	STORM DRAINAGE MANHOLE	
---D---	STORM DRAINAGE	SANITARY SEWER MANHOLE	
---E---	UNDERGROUND ELECTRIC	ELECTRICAL MANHOLE	
---F---	FIRE PROTECTION LINE	TELEPHONE MANHOLE	
---OE---	OVERHEAD ELECTRIC	WATER MANHOLE	
---S---	SANITARY SEWER	MISCELLANEOUS MANHOLE	
---T---	TELECOMMUNICATIONS	GAS VALVE	
---W---	WATER	WATER VALVE	
---//---	TEMPORARY SEDIMENTATION CONTROL	HYDRANT	
---	FLUSH CONDITION	ELECTRICAL BOX	
☀ ☁	TREES	HAND HOLE	
☀ ☁	SHRUBS	UTILITY POLE W/ GUY WIRE	
		LUMINAIRE	
		LUMINAIRE ON STANDARD	
		SIGNS	
		POST	
		BOLLARD	

SOIL EROSION AND SEDIMENT CONTROL NOTES

NARRATIVE

THE SUBJECT SITE IS A SECTION OF ENSIGN STREET IN THE TOWN OF EAST HARTFORD, CONNECTICUT AND ABUTTED BY 31 PROPERTIES. THE PROPERTIES ARE OCCUPIED BY GENERALLY ABUTTED BY RESIDENTIAL HOMES, WITH ONE COMMERCIAL BUILDING ON THE CORNER OF ENSIGN AND MAIN STREET. THE SITE IS LOCATED WITHIN A B-2 BUSINESS ZONE AND R-4 RESIDENTIAL ZONE.

THE SITE GENERALLY SLOPES IN A NORTHWESTERLY DIRECTION DOWN TOWARDS THE CONNECTICUT RIVER. A PIPED STORMWATER COLLECTION SYSTEM COLLECTS STORM WATER IN AND AROUND THE SITE AND WILL DISCHARGE THROUGH A 54" OUTFALL TO THE CONNECTICUT RIVER (TO BE CONSTRUCTED UNDER SEPARATE CONTRACT).

WORK INCLUDES THE INSTALLATION OF CATCH BASINS WITH 4' SUMPS AND TRAP HOODS FOR WATER QUALITY CONTROL MEASURES TO COLLECT STORMWATER RUNOFF FROM ENSIGN STREET AND ADJACENT PROPERTIES. THE STORMWATER RUNOFF WILL THEN BE DIRECTED THROUGH A NEW DRAINAGE SYSTEM CONSISTING OF 12", 15" 18", 24" AND 36" REINFORCED CONCRETE PIPES AND PRECAST CONCRETE MANHOLES. THE NEW SYSTEM WILL CONNECT INTO THE EXISTING 36" STORM SEWER PIPES AT THE INTERSECTION OF ENSIGN STREET AND WILLOWBROOK ROAD.

AFTER COMPLETION OF THE STORM DRAINAGE SYSTEM, ENSIGN STREET WILL RECEIVE A FULL DEPTH PAVEMENT RECONSTRUCTION, WITH NEW CURBING, SIDEWALKS WHERE DISTURBED BY CONSTRUCTION ACTIVITIES, AND NEW DRIVEWAY APRONS.

THE ESTIMATED TOTAL AREA OF THE SITE THAT IS EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES IS APPROXIMATELY 1.15 ACRES (50,273 SF).

CONSTRUCTION SCHEDULE

ESTIMATED START OF CONSTRUCTION IS SUMMER 2019. ESTIMATED COMPLETION OF CONSTRUCTION IS SUMMER 2020.

RESPONSIBLE CONTACT

THE RESPONSIBLE CONTACT PERSON FOR ASSURING THAT ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES ARE PROPERLY INSTALLED AND MAINTAINED WILL BE DESIGNATED BY THE SITE CONTRACTOR. THE RESPONSIBLE CONTACT PERSON FOR MAINTAINING THE PERMANENT MEASURES WHEN THE PROJECT IS COMPLETE WILL BE THE TOWN OF EAST HARTFORD PUBLIC WORKS.

GENERAL CONSTRUCTION SEQUENCE

1. INSTALL SOIL AND EROSION CONTROL MEASURES PRIOR TO THE START OF CONSTRUCTION.
2. DURING INSTALLATION OF STORM DRAINAGE, CONTRACTOR TO ONLY DISTURB AREAS TO THE EXTENTS REQUIRED FOR WORK ON THAT DAY (DAILY WORK ZONE).
3. IMPLEMENT TEMPORARY MAINTENANCE AND PROTECTION OF TRAFFIC AS REQUIRED WITHIN LIMITS OF DAILY WORK ZONE.
4. REMOVE PAVEMENT, CONCRETE WALKS, AND OTHER SURFACE FEATURES AS REQUIRED WITHIN DAILY WORK ZONE.
5. EXCAVATE TRENCH FOR STORM STRUCTURES AND PIPE INSTALLATION WITHIN DAILY WORK ZONE..
6. COMPLETE INSTALLATION OF STORM STRUCTURES AND PIPE WITHIN DAILY WORK ZONE.
5. BACKFILL TRENCH AND CONSTRUCT TEMPORARY TRENCH PAVEMENT REPAIR WITHIN DAILY WORK ZONE.
6. REPLACE SIDEWALKS WITHIN WORK AREAS AS SOON AS PERMISSIBLE.
7. INSTALL CONCRETE SIDEWALK RAMPS AND GRANITE CURB.
8. AFTER COMPLETION OF STORM DRAINAGE INSTALLATION, FOR RECONSTRUCTION OF ROADWAY, COMMENCE REMOVAL OF ALL BITUMINOUS PAVEMENT, CURBING, ETC.
9. PERFORM ROUGH GRADING. EXCESS MATERIAL SHALL BE TAKEN DIRECTLY OFF-SITE AND PROPERLY DISPOSED OF BY THE CONTRACTOR.
10. INSTALL ROADWAY SUB-BASE, BASE AND PAVEMENT AND CURBS.
11. INSPECT THE DRAINAGE SYSTEM AND CLEAN AS NEEDED.
12. INSTALL PAVEMENT STRIPING AND SIGNAGE AS REQUIRED.
13. PREPARE FINAL GRADE FOR AREAS DISTURBED BY CONSTRUCTION NOT RECEIVING A HARD SURFACE. PLACE 6" OF TOPSOIL ON DISTURBED AREAS. APPLY FERTILIZER, SEED AND MULCH.
14. REMOVE EROSION CONTROLS AFTER AREAS ARE STABILIZED.

GENERAL EROSION AND SEDIMENTATION CONTROL NOTES

1. THE EROSION AND SEDIMENT CONTROLS SHOWN ON THE DRAWINGS DEPICT THE MINIMUM EROSION AND SEDIMENT CONTROL PRACTICES REQUIRED FOR THE PROJECT. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PREVENT ERODED MATERIALS FROM LEAVING THE SITE.
2. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND APPROVED PRIOR TO THE START OF DEMOLITION AND CONSTRUCTION.
3. EROSION CONTROL MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL ALL AREAS ARE STABILIZED. IF FULL IMPLEMENTATION OF APPROVED EROSION CONTROL PLANS DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED AS DIRECTED BY THE ENGINEER/OWNER TO CONTROL OR TREAT THE SEDIMENT SOURCE AT THE CONTRACTOR'S EXPENSE.
4. THE CONTRACTOR SHALL KEEP ALL PUBLIC ROADWAYS CLEAN AND CLEAR OF ALL MUD AND DEBRIS DURING CONSTRUCTION. THE CONTRACTOR SHALL IMPLEMENT MEASURES NECESSARY FOR DUST CONTROL, INCLUDING BUT NOT LIMITED TO ROADWAY SWEEPING AND WATERING.
5. APPLY TEMPORARY SEEDING OR MULCH TO AREAS WHERE ROUGH GRADING HAS BEEN COMPLETED BUT FINAL GRADING IS NOT ANTICIPATED TO BEGIN WITHIN 30 DAYS OF THE COMPLETION OF ROUGH GRADING. WHEN CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED OR WHEN FINAL GRADES ARE REACHED, STABILIZATION AND PROTECTION MEASURES SHALL BE IMPLEMENTED WITHIN SEVEN (7) DAYS.
6. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL CONFORM TO THE REQUIREMENTS OF THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" AS AMENDED.

INSTALLATION OF SEDIMENTATION AND EROSION CONTROL MEASURES

SILT FENCE

- A. SILT FENCE SHALL BE INSTALLED AT LOCATIONS SHOWN ON THIS PLAN AND AS DIRECTED BY THE ENGINEER.
- B. DIG A SIX INCH TRENCH ON THE UPHILL SIDE OF THE DESIGNATED FENCE LINE LOCATION.
- C. POSITION THE POST AT THE BACK OF THE TRENCH (DOWNHILL SIDE), AND INSTALL THE POST AT LEAST 1.5 FEET INTO THE GROUND.
- D. LAY THE BOTTOM SIX INCHES OF THE FABRIC INTO THE TRENCH TO PREVENT UNDERMINING BY STORM WATER RUN-OFF.
- E. BACKFILL THE TRENCH AND COMPACT.

SEDIMENT CONTROL AT CATCH BASINS

- A. PLACE SILT SACKS UNDER GRATE AT EACH CATCH BASIN AT LOCATIONS SHOWN ON DRAWINGS.

OPERATION AND MAINTENANCE OF TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES

SILT FENCE

- A. ALL SILT FENCES SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL. ALL DETERIORATED FABRIC AND DAMAGED POSTS SHALL BE REPLACED AND PROPERLY REPOSITIONED.
- B. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THEY EXCEED A HEIGHT OF ONE FOOT OR 1/2 THE HEIGHT OF THE BARRIER.

SEDIMENT CONTROL AT CATCH BASINS

- A. INSPECT SILT SACKS WEEKLY AND AFTER EACH RAINFALL.

- B. SILT SACKS SHALL BE EMPTIED WHEN THEY HAVE COLLECTED 6" TO 12" OF SEDIMENT.

GENERAL

- A. CONTRACTOR TO KEEP WEEKLY CHECKLIST LOGS FOR INSPECTIONS OF ALL SEDIMENT AND EROSION CONTROL DEVICES AND HAVE THEM READILY AVAILABLE ON-SITE AT ALL TIMES FOR INSPECTION BY THE ENGINEER, OWNER'S REPRESENTATIVE OR CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CT DEEP).

CONTINGENCY EROSION PLAN

SHOULD UNFORESEEN EROSION OR SEDIMENTATION PROBLEMS ARISE, THE DESIGN ENGINEER OF RECORD (ZUVIC, CARR AND ASSOCIATES) SHALL BE NOTIFIED IMMEDIATELY. AN INSPECTION OF THE AFFECTED AREA(S) SHALL BE PROMPTLY PERFORMED. A REMEDIAL ACTION PLAN SHALL BE FORMULATED. THE SITE CONTRACTOR SHALL THEN IMPLEMENT THE RECOMMENDED COURSE OF ACTION WHICH HAS BEEN DETERMINED BY THE ENGINEER.

1	06/2019	WK	GBS	MDC REVISIONS/ADDENDUM # Δ	
REV. NO.	DATE	DRWN	CHKD	REMARKS	

PROJECT NO.:	1962
DESIGNED BY:	SJH
DRAWN BY:	SJH
SHEET CHK'D BY:	GBS
CROSS CHK'D BY:	
APPROVED BY:	GBS
DATE:	OCTOBER, 2018



ENSIGN STREET
DRAINAGE DESIGN

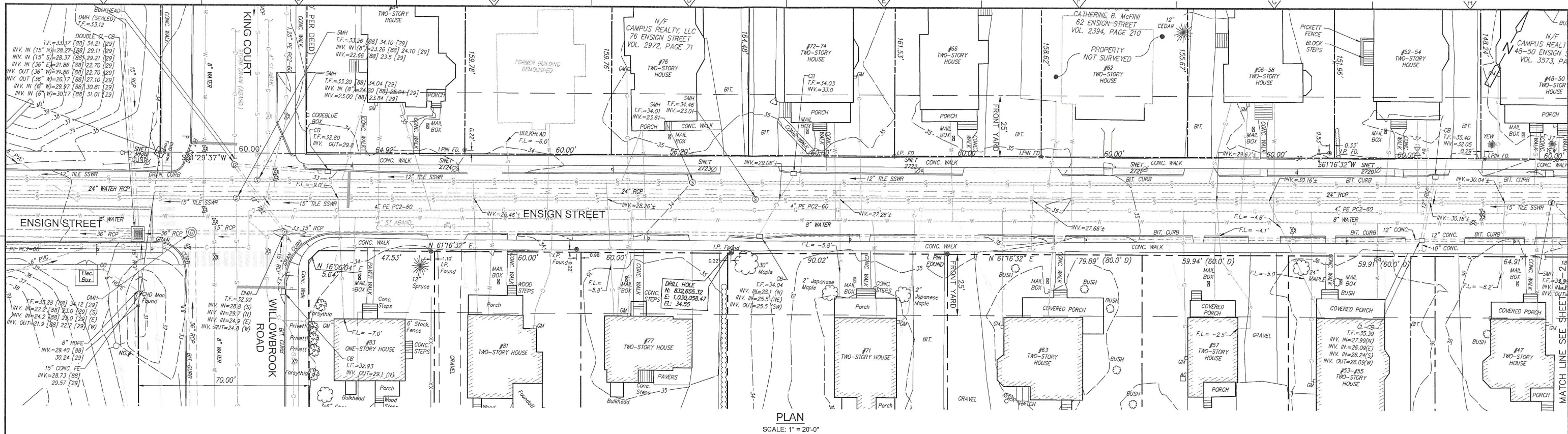
ENSIGN STREET
EAST HARTFORD, CONNECTICUT

GENERAL NOTES AND LEGEND

SHEET NO.

GN-1

FILE PATH: H:\Projects\Goodwin College\1902 - Ensign Drainage Design\AutoCAD\11902 - EC.dwg PLOT DATE: 9/7/2019 PLOT TIME: 11:31 PM



PLAN
SCALE: 1" = 20'-0"

LEGEND

(NOT ALL SYMBOLS MAY BE USED)

	PROPERTY LINE		CONTROL POINT
	EASEMENT LINE		MONUMENT
	CURB		BENCHMARK
	EDGE OF PAVEMENT (EOP)		TYPE 'C' CATCH BASIN
	STOCKADE FENCE		TYPE 'CL' CATCH BASIN
	CHAIN LINK FENCE		STORM DRAINAGE MANHOLE
	TREE/VEGETATION LINE		SANITARY SEWER MANHOLE
	MAJOR CONTOUR		WATER MANHOLE
	MINOR CONTOUR		GAS VALVE
	PIPES > 12" (SIZE, MATERIAL AND FLOW DIRECTION)		ELECTRICAL BOX
	GAS		HAND HOLE
	STORM DRAINAGE		HYDRANT
	UNDERGROUND ELECTRIC		WATER VALVE
	OVERHEAD ELECTRIC		UTILITY POLE W/ GUY WIRE
	SANITARY SEWER		LUMINAIRE
	WATER		SIGN
			TREES
			SHRUBS

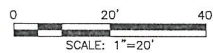
ABBREVIATIONS

(NOT ALL ABBREVIATIONS MAY BE USED)

ABAND.	ABANDONED	MB	MAILBOX
BCLC	BITUMINOUS CONCRETE LIP CURB	MH	MANHOLE
BIT.	BITUMINOUS	MON	MONUMENT
C-CB	CURBED CATCH BASIN	NTS	NOT TO SCALE
CL-CB	CURBLESS CATCH BASIN	OE	OVERHEAD ELECTRIC
CLF	CHAIN LINK FENCE	P	PROPERTY LINE
CONC.	CONCRETE	PVMT	PAVEMENT
D.I.	DUCTILE IRON	PVC	POLYVINYL CHLORIDE
D.I.P.	DUCTILE IRON PIPE	RCP	REINFORCED CONCRETE PIPE
DMH	DRAINAGE MANHOLE	S	SANITARY
ELEC.	ELECTRICAL	SAN	SANITARY
EL.	ELEVATION	SD	STORM DRAIN
EMH	ELECTRICAL MANHOLE	SMH	SANITARY MAN HOLE
EOP	EDGE OF PAVEMENT	SSWR	SANITARY SEWER
EX.	EXISTING	STM	STORM
F.F.	FINISHED FLOOR	SW	SERVICE WATER
FL	FLOW LINE	TEMP.	TEMPORARY
FND.	FOUND	TEL.	TELEPHONE
G	GAS	T.F.	TOP OF FRAME
GM	GAS METER	T.G.	TOP OF GRATE
GRAN	GRANITE	TOS	TOP OF SLAB
GV	GATE VALVE	TYP	TYPICAL
HDPE	HIGH DENSITY POLYETHYLENE	UKWN	UNKNOWN
HYD	HYDRANT	W	WATER
I.PIN	IRON PIN	WM	WATER METER
INV.	INVERT	WMH	WATER MANHOLE
		WV	WATER VALVE

SURVEY NOTES:

- SURVEY PROVIDED BY: ZUVIC, CARR AND ASSOCIATES, INC.
40 COLD SPRING ROAD, ROCKY HILL, CT 06067
TEL. 860-436-4901
- THIS SURVEY AND MAP WERE PREPARED IN ACCORDANCE WITH THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THRU 20-300b-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996. IT IS A PROPERTY AND TOPOGRAPHIC SURVEY CONFORMING TO HORIZONTAL ACCURACY CLASS A-2 AND TOPOGRAPHIC ACCURACY CLASS T-2. IT IS INTENDED TO DEPICT DEED LINES, LINES OF OCCUPATION, EASEMENTS, ENCROACHMENTS AND ENCUMBRANCES AFFECTING THE PROPERTY. THE PROPERTY/ELEVATIONS DEPICTED HEREON CONFORM TO VERTICAL ACCURACY CLASS V-2.
- ELEVATIONS DEPICTED HEREON ARE BASED ON THE NAVD 88.
- BEARINGS ARE BASED ON THE CONNECTICUT COORDINATE SYSTEM, NAD83.
- WESTERLY MOST UTILITY STRUCTURES SHOWN WITH BOTH NAVD [88] AND NGVD [29] TOP OF FRAME AND INVERT ELEVATION INFORMATION.
- THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.
- SOME ABANDONED PIPES ARE NOT SHOWN.
- LOCATION OF UNDERGROUND SEWER, WATER AND GAS LATERALS AND CONNECTIONS TAKEN FROM RECORD DRAWINGS WHEREVER INFORMATION AVAILABLE.
- LOCATION OF UNDERGROUND COMMUNICATIONS AND ELECTRICAL FACILITIES TAKEN FROM RECORD DRAWINGS WHEREVER INFORMATION AVAILABLE.
- SIDE YARD AND REAR YARD SET-BACK LINES FOR INDIVIDUAL LOTS ARE NOT SHOWN.



REV. NO.	DATE	DRWN	CHKD	REMARKS

PROJECT NO.:	1962
DESIGNED BY:	—
DRAWN BY:	NJM
SHEET CHK'D BY:	SJH
CROSS CHK'D BY:	GBS
APPROVED BY:	TG
DATE:	OCTOBER, 2018

PREPARED FOR:

GOODWIN COLLEGE
ONE RIVERSIDE DRIVE
EAST HARTFORD, CONNECTICUT

PREPARED BY:

ZUVIC • CARR
AND ASSOCIATES
CONSULTING ENGINEERS
40 Cold Spring Road • Rocky Hill, CT 06067
Phone 860.436.4901 • Fax 860.436.4953

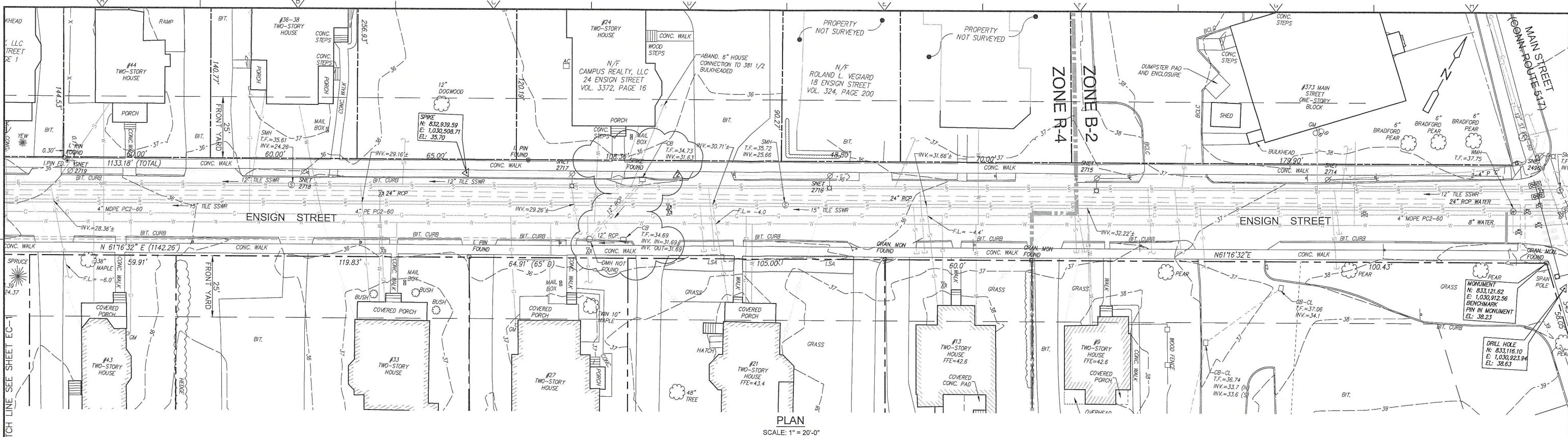
**ENSIGN STREET
DRAINAGE DESIGN**

**ENSIGN STREET
EAST HARTFORD, CONNECTICUT**

EXISTING CONDITIONS

SHEET NO.

EC-1



PLAN
SCALE: 1" = 20'-0"

LEGEND

(NOT ALL SYMBOLS MAY BE USED)

	PROPERTY LINE		CONTROL POINT
	EASEMENT LINE		MONUMENT
	CURB		BENCHMARK
	EDGE OF PAVEMENT (EOP)		TYPE 'C' CATCH BASIN
	STOCKADE FENCE		TYPE 'CL' CATCH BASIN
	CHAIN LINK FENCE		STORM DRAINAGE MANHOLE
	TREE/VEGETATION LINE		SANITARY SEWER MANHOLE
	MAJOR CONTOUR		WATER MANHOLE
	MINOR CONTOUR		GAS VALVE
	PIPES > 12" (SIZE, MATERIAL, AND FLOW DIRECTION)		ELECTRICAL BOX
	GAS		HAND HOLE
	STORM DRAINAGE		HYDRANT
	UNDERGROUND ELECTRIC		WATER VALVE
	OVERHEAD ELECTRIC		UTILITY POLE W/ GUY WIRE
	SANITARY SEWER		LUMINAIRE
	WATER		SIGN
			TREES
			SHRUBS

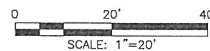
ABBREVIATIONS

(NOT ALL ABBREVIATIONS MAY BE USED)

ABAND.	ABANDONED	MB	MAILBOX
BCLC	BITUMINOUS CONCRETE LIP CURB	MH	MANHOLE
BIT.	BITUMINOUS	MON	MONUMENT
C-CB	CURBED CATCH BASIN	NTS	NOT TO SCALE
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CLF	CHAIN LINK FENCE	PL	PROPERTY LINE
CONC.	CONCRETE	PVMT	PAVEMENT
D.I.	DUCTILE IRON	PVC	POLYVINYL CHLORIDE
D.I.P.	DUCTILE IRON PIPE	RCP	REINFORCED CONCRETE PIPE
DWH	DRAINAGE MANHOLE	S	SANITARY
ELEC.	ELECTRICAL	SD	STORM DRAIN
EL.	ELEVATION	SMH	SANITARY MAN HOLE
EMH	ELECTRICAL MANHOLE	SSWR	SANITARY SEWER
EOP	EDGE OF PAVEMENT	STM	STORM
EX.	EXISTING	SW	SERVICE WATER
F.F.	FINISHED FLOOR	TEMP.	TEMPORARY
FL.	FLOW LINE	TEL.	TELEPHONE
FND.	FOUND	T.F.	TOP OF FRAME
G	GAS	T.G.	TOP OF GRATE
GM	GAS METER	TOS	TOP OF SLAB
GRAN	GRANITE	TYP	TYPICAL
GV	GATE VALVE	UKWN	UNKNOWN
HDPE	HIGH DENSITY POLYETHYLENE	W	WATER
HYD	HYDRANT	WM	WATER METER
L.PIN	IRON PIN	WMH	WATER MANHOLE
INV.	INVERT	WV	WATER VALVE

SURVEY NOTES:

1. SURVEY PROVIDED BY: ZUVIC, CARR AND ASSOCIATES, INC.
40 COLD SPRING ROAD, ROCKY HILL, CT 06067
TEL. 860-436-4901
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9. LOCATION OF UNDERGROUND COMMUNICATIONS AND ELECTRICAL FACILITIES TAKEN FROM RECORD DRAWINGS WHEREVER INFORMATION AVAILABLE.
10. SIDE YARD AND REAR YARD SET-BACK LINES FOR INDIVIDUAL LOTS ARE NOT SHOWN.



FILE PATH: H:\Projects\Goodwin College\1802 - Ensign Drainage Design\AutoCAD\1802 - EC.dwg PLOT DATE: 6/7/2019 PLOT TIME: 1:13:18 PM

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	06/2019	MK	GBS	MDC REVISIONS/ADDENDUM # 1

PROJECT NO.:	1962
DESIGNED BY:	
DRAWN BY:	NJM
SHEET CHK'D BY:	SJH
CROSS CHK'D BY:	GBS
APPROVED BY:	TG
DATE:	OCTOBER, 2018

PREPARED FOR:

GOODWIN COLLEGE
ONE RIVERSIDE DRIVE
EAST HARTFORD, CONNECTICUT

PREPARED BY:

ZUVIC-CARR AND ASSOCIATES
CONSULTING ENGINEERS
40 Cold Spring Road • Rocky Hill, CT 06067
Phone 860.436.4901 • Fax 860.436.4953

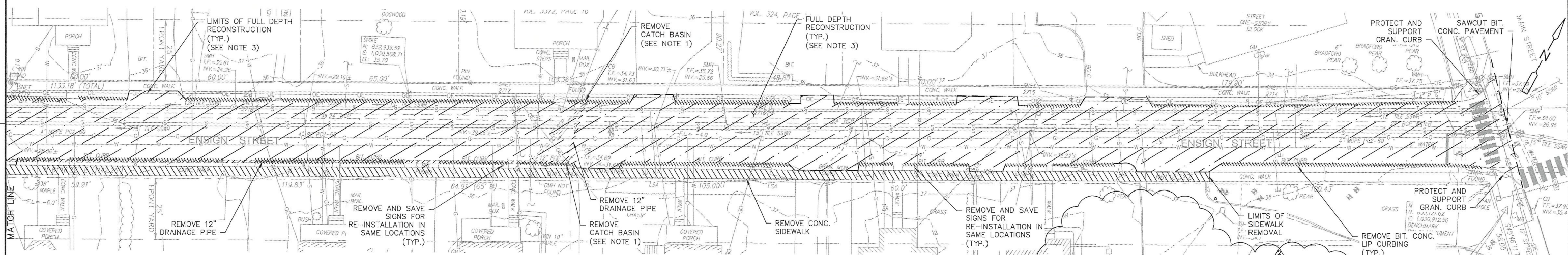
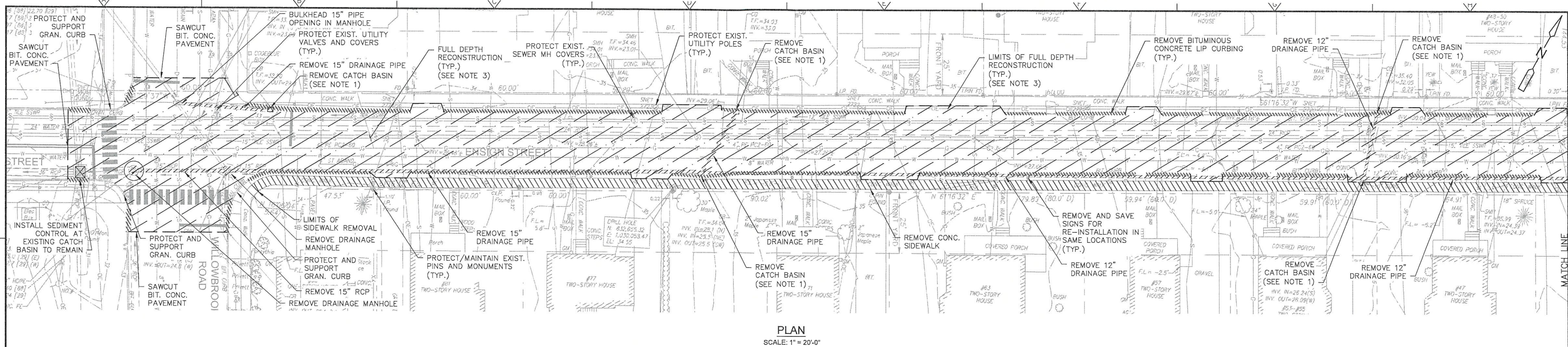
**ENSIGN STREET
DRAINAGE DESIGN**

**ENSIGN STREET
EAST HARTFORD, CONNECTICUT**

EXISTING CONDITIONS

SHEET NO.
EC-2

FILE PATH: H:\Projects\Goodwin College\1962 - Ensign Drainage Design\MapCAD\1962 - DP.dwg PLOT DATE: 6/7/2019 PLOT TIME: 11:51 PM



NOTES:

1. INSTALL SEDIMENT CONTROL AT CATCH BASIN IN ALL CATCH BASINS THAT WILL RECEIVE SEDIMENT LADEN STORM RUNOFF DUE TO CONSTRUCTION ACTIVITIES PRIOR TO CATCH BASIN REMOVAL.
2. INSTALL SEDIMENT CONTROL AT CATCH BASIN IN ALL NEW CATCH BASINS IMMEDIATELY AFTER CONSTRUCTION OF CATCH BASINS.
3. ENSIGN STREET TO RECEIVE FULL DEPTH RECONSTRUCTION. REMOVE EXISTING BITUMINOUS CONCRETE PAVEMENT, BASE AND SUBBASE/SUBGRADE TO ALLOW FOR INSTALLATION OF 21" PAVEMENT STRUCTURE - SEE MINOR STREET (RESIDENTIAL) - FULL DEPTH RECONSTRUCTION DETAIL ON SHEET CD-2. FOR CENTERLINE GRADE SEE SHEETS PP-1 AND PP-2.
4. SEE SECTION 01540 - MAINTENANCE AND PROTECTION OF TRAFFIC FOR TRAFFIC CONTROL REQUIREMENTS DURING CONSTRUCTION.
5. SEE SECTION 31 23 16 - EXCAVATION FOR USE OF PLATES/TEMPORARY PAVING DURING CONSTRUCTION.

LEGEND

- REMOVAL BIT. LIP CURBING
- REMOVAL OF BIT. CONC.
- REMOVAL OF EXISTING DRAIN PIPE
- DIRECTION OF TRAFFIC

0 20' 40'
SCALE: 1"=20'

PROJECT NO.: 1962				
DESIGNED BY: GBS				
DRAWN BY: NJM				
SHEET CHK'D BY: SJH				
CROSS CHK'D BY: GBS				
APPROVED BY: TG				
DATE: OCTOBER, 2018				
REV. NO.	DATE	DRWN	CHKD	REMARKS
1	06/2019	MK	GBS	MDC REVISIONS/ADDENDUM # 1

PREPARED FOR:
GOODWIN COLLEGE
ONE RIVERSIDE DRIVE
EAST HARTFORD, CONNECTICUT

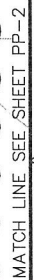
PREPARED BY:
ZUVIC • CARR
AND ASSOCIATES
CONSULTING ENGINEERS
40 Cold Spring Road • Rocky Hill, CT 06067
Phone 860.436.4901 • Fax 860.436.4953

ENSIGN STREET
DRAINAGE DESIGN
ENSIGN STREET
EAST HARTFORD, CONNECTICUT

DEMOLITION AND EROSION
CONTROL PLAN

SHEET NO.

DP-1



SCALE: 1" = 20'-0"




NOTE:
SEE SHEET PP-2 FOR NOTES.

1	06/2019	MK	GBS	MDC REVISIONS/ADDENDUM # <u>Δ</u>	CROSS CHK'D BY: <u>GBS</u>
REV. NO.	DATE	DRWN	CHKD	REMARKS	APPROVED BY: <u>TG</u>
					DATE: <u>OCTOBER, 2018</u>

PROJECT NO.: 1962
DESIGNED BY: GBS
DRAWN BY: NJM
SHEET CHK'D BY: SJH
CROSS CHK'D BY: GBS
APPROVED BY: TG
DATE: OCTOBER, 2018

PREPARED FOR:

 **GOODWIN
COLLEGE**

ONE RIVERSIDE DRIVE
EAST HARTFORD, CONNECTICUT

PREPARED BY:

 **ZUVIC • CARR**
AND ASSOCIATES
CONSULTING ENGINEER

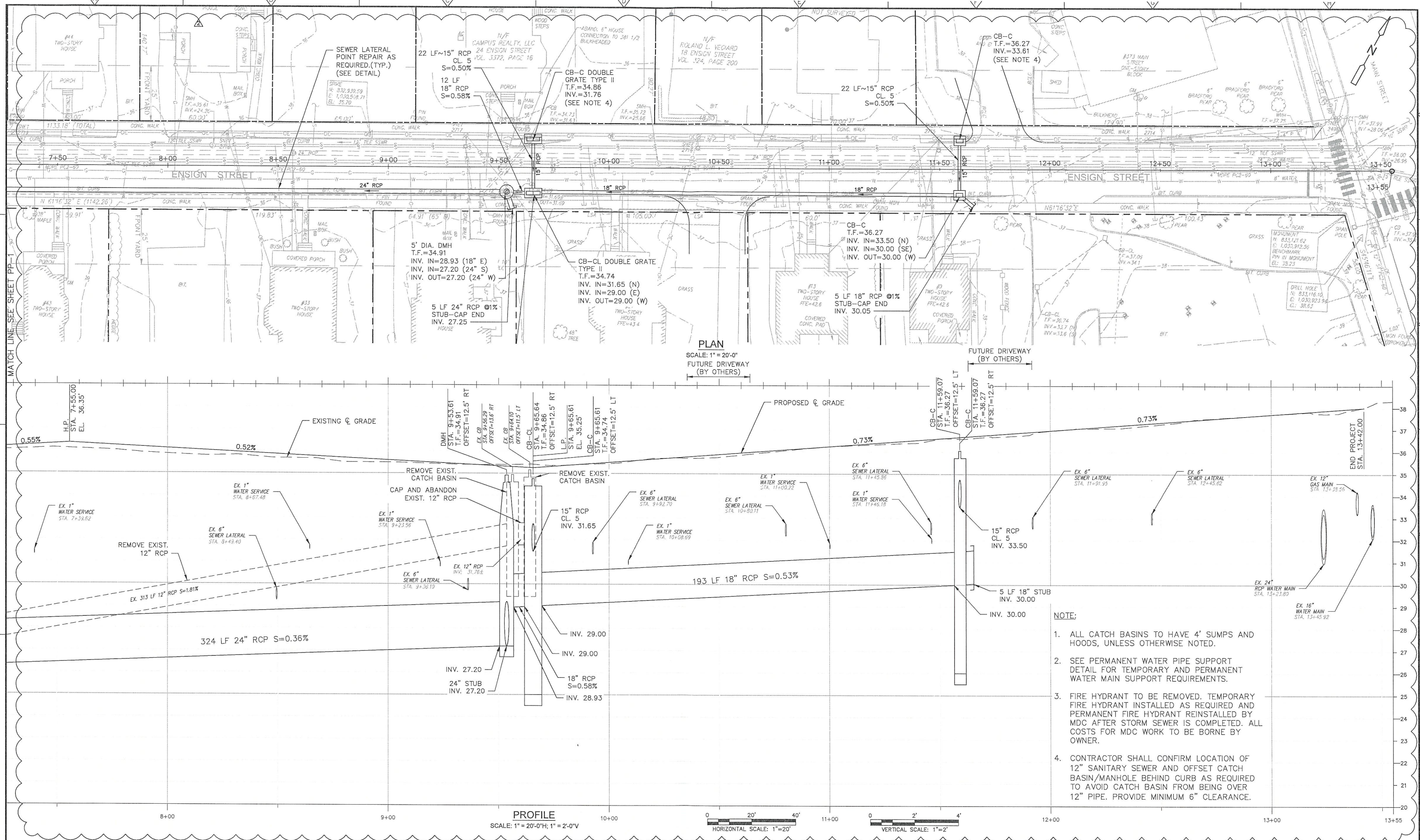
40 Cold Spring Road • Rocky Hill, CT 06067
Phone 860.436.4901 • Fax 860.436.4905

ENSIGN STREET
DRAINAGE DESIGN

ENSIGN STREET
EAST HARTFORD, CONNECTICUT

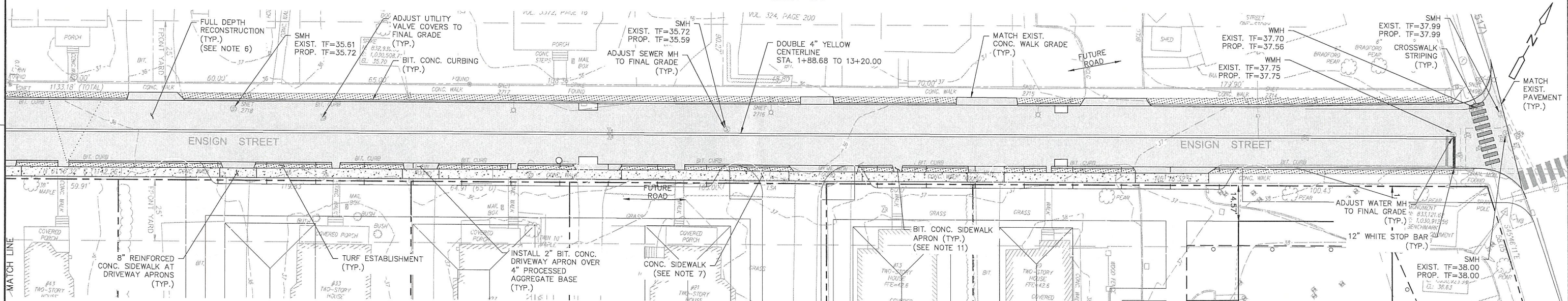
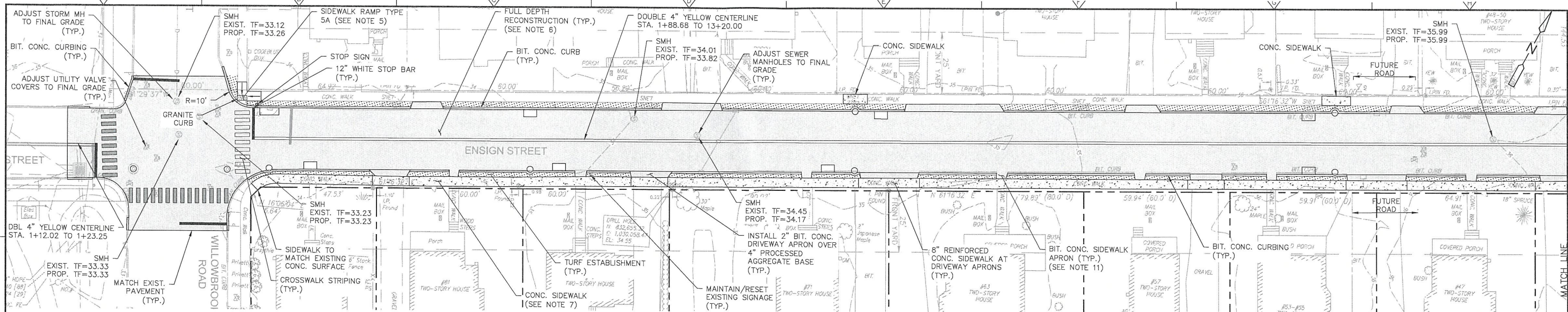
PLAN AND PROFILE	SHEET NO. PP-1
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						PROJECT NO.: 1962	 <div>GOODWIN COLLEGE</div> <div>ONE RIVERSIDE DRIVE EAST HARTFORD, CONNECTICUT</div>	 <div>ZUVIC • CARR AND ASSOCIATES</div> <div>CONSULTING ENGINEERS</div> <div>40 Cold Spring Road • Rocky Hill, CT 06067 Phone 860.436.4901 • Fax 860.436.4953</div>	ENSIGN STREET DRAINAGE DESIGN	ENSIGN STREET EAST HARTFORD, CONNECTICUT	PLAN AND PROFILE	SHEET NO. PP-2
					DESIGNED BY: GBS							
					DRAWN BY: NJM							
					SHEET CHK'D BY: SJH							
					CROSS CHK'D BY: GBS							
					APPROVED BY: TG							
1	06/2019	MK	GBS	MDC REVISIONS/ADDENDUM # 		DATE: OCTOBER, 2018						
REV. NO.	DATE	DRWN	CHKD	REMARKS								

FILE PATH: H:\Projects\Goodwin College\1902 - Ensign Drainage Design\AutoCAD\1902 - RR.dwg PLOT DATE: 07/2019 PLOT TIME: 1:22:01 PM



SITE LAYOUT NOTES:

- ALL PAVEMENT MARKINGS SHALL MATCH EXISTING COLORS.
- ALL AREAS DISTURBED BY CONSTRUCTION NOT RECEIVING A HARD SURFACE OR TO BE LANDSCAPED SHALL BE TURF PER THE TURF ESTABLISHMENT DETAIL.
- CONTRACTOR SHALL REPAINT DOUBLE 4" YELLOW STRIPING FOR CENTERLINE PAVEMENT MARKING UPON COMPLETION OF CONSTRUCTION. PAVEMENT MARKINGS SHALL CONFORM TO DOT FORM 817 SECTION 12.09. APPLY TWO COATS OF PAINT.
- FINAL PAVING TO BE COMPLETED FOR BOTH SIDES OF ROAD AT SAME TIME.
- GRANITE CURB TO BE INSTALLED AT NEW SIDEWALK RAMPS.
- ENSIGN STREET TO RECEIVE FULL DEPTH RECONSTRUCTION. REMOVE EXISTING BITUMINOUS CONCRETE PAVEMENT, BASE AND SUBBASE/SUBGRADE TO ALLOW FOR INSTALLATION OF 21" PAVEMENT STRUCTURE - SEE MINOR STREET (RESIDENTIAL) - FULL DEPTH RECONSTRUCTION DETAIL ON SHEET CD-2. FOR CENTERLINE GRADE SEE SHEETS PP-1 AND PP-2.
- CONCRETE SIDEWALK TO BE RECONSTRUCTED TO MATCH EXISTING GRADE ON SOUTH SIDE (R.O.W.) OF WALK.
- SEE SECTION 01540 - MAINTENANCE AND PROTECTION OF TRAFFIC FOR TRAFFIC CONTROL REQUIREMENTS DURING CONSTRUCTION.
- SEE SECTION 31 23 16 - EXCAVATION FOR USE OF PLATES/TEMPORARY PAVING DURING CONSTRUCTION.
- SEE SHEETS PP-1 AND PP-2 FOR TOP OF FRAME ELEVATIONS FOR ALL PROPOSED STORM DRAINAGE STRUCTURES.
- BITUMINOUS CONCRETE SIDEWALK APRON TO BE CONSTRUCTED TO SAME STANDARDS AS 2" BITUMINOUS CONCRETE DRIVEWAY APRON.
- ANY SIGNAGE AFFECTED BY INSTALLATION SHALL BE RESET BY CONTRACTOR AT NO ADDITIONAL COST.
- ADJUST ALL UTILITY BOXES TO GRADE.

NOTES:

- THE DEVELOPER SHALL NOTIFY THE TOWN OF EAST HARTFORD ENGINEERING DIVISION 24 HOURS PRIOR TO BEGINNING ANY STORM DRAINAGE, ROADWAY PREPARATION, PAVING, SIDEWALK, CURBING, STREET LINE MONUMENTATION, PROPERTY CORNER PINS, ETC., TO SCHEDULE INSPECTIONS. THE DIVISION CAN BE REACHED BETWEEN 8:30 A.M. - 4:30 P.M. AT 291-7380.
- THE TOWN SHALL BE NOTIFIED IN WRITING AT LEAST 2 DAYS IN ADVANCE OF THE PRE-CONSTRUCTION MEETING BETWEEN THE CONTRACTOR AND THE ENGINEER.

0 20' 40'
SCALE: 1"=20'

PROJECT NO.: 1962				
DESIGNED BY: GBS				
DRAWN BY: NJM				
SHEET CHK'D BY: SJH				
CROSS CHK'D BY: GBS				
APPROVED BY: TG				
DATE: OCTOBER, 2018				
1	06/2019	MK	GBS	MDC REVISIONS/ADDENDUM # A
REV. NO.	DATE	DRWN	CHKD	REMARKS

PREPARED FOR:
GOODWIN COLLEGE
ONE RIVERSIDE DRIVE
EAST HARTFORD, CONNECTICUT

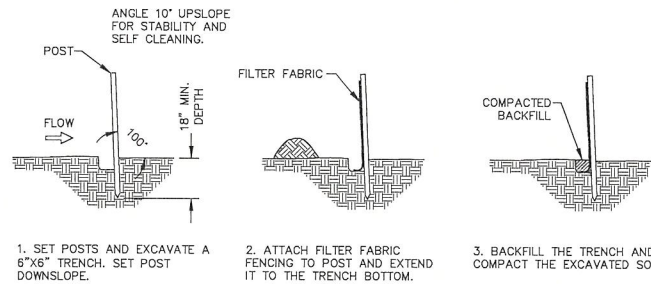
PREPARED BY:
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CONSULTING ENGINEERS
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Phone 860.436.4901 • Fax 860.436.4953

ENSIGN STREET
DRAINAGE DESIGN
ENSIGN STREET
EAST HARTFORD, CONNECTICUT

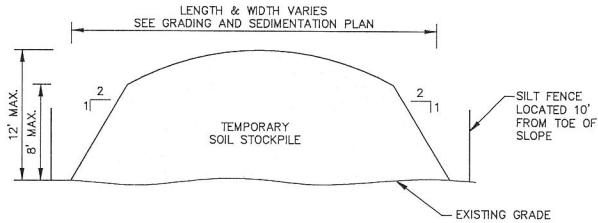
ROADWAY RECONSTRUCTION PLAN

SHEET NO.
RR-1

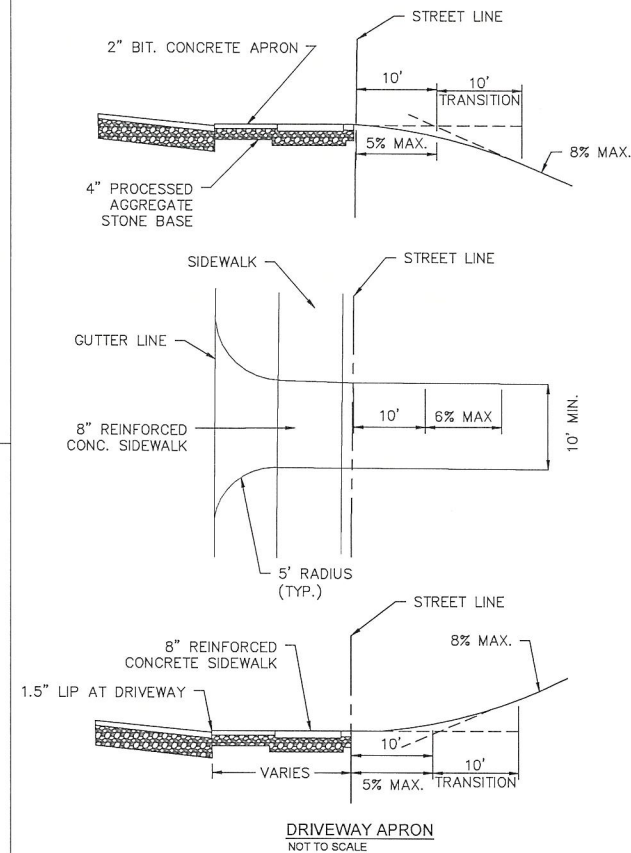
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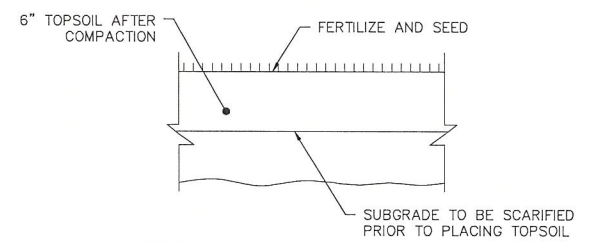
TYPICAL SILT FENCE INSTALLATION
NOT TO SCALE



TEMPORARY SOIL STOCKPILE
NOT TO SCALE



DRIVEWAY APRON
NOT TO SCALE

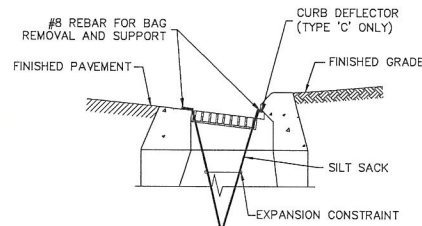


NOTES:

- THE PERMANENT SEED MIX FOR TURF ESTABLISHMENT IS AS FOLLOWS:

NAME	MINIMUM PROPORTION BY WEIGHT
KENTUCKY BLUEGRASS	45%
CREeping RED FESCUE	10%
PERENNIAL RYE GRASS	45%
- SEED SHALL BE APPLIED AT A RATE OF 2 POUNDS PER 1000 SQUARE FEET. THE SEED AREA SHALL BE MULCHED WITH A LAYER OF GRASS, HAY OR STRAW AT A RATE OF 10 POUNDS PER 100 SQUARE FEET. THE SEED AREA SHALL BE THOROUGHLY WATERED UNTIL SATISFACTORY STAND OF GRASS HAS BEEN ESTABLISHED.

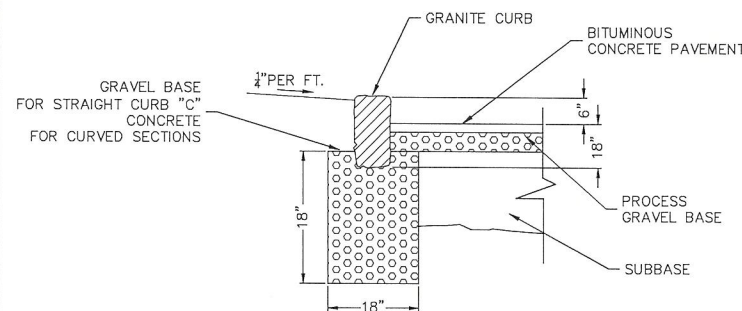
TURF ESTABLISHMENT
NOT TO SCALE



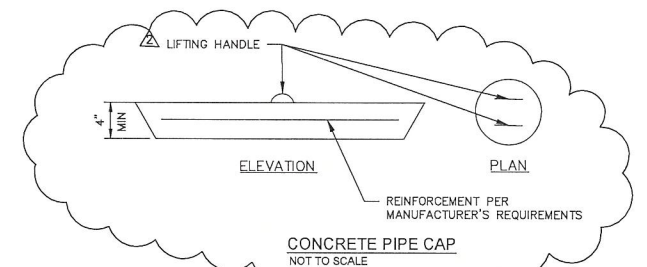
NOTE:

- SILT SACKS MAY BE USED IN OTHER TYPES OF STORM DRAINAGE INLETS. TYPE 'C' CATCH BASIN SHOWN FOR CLARITY.

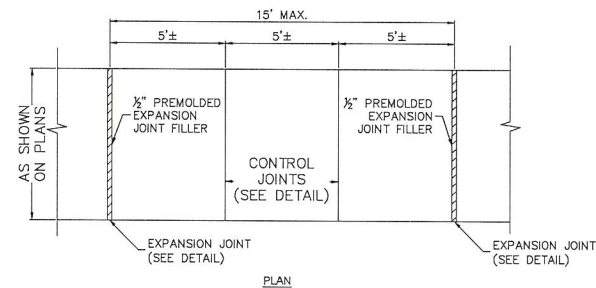
SEDIMENT CONTROL AT CATCH BASIN
NOT TO SCALE



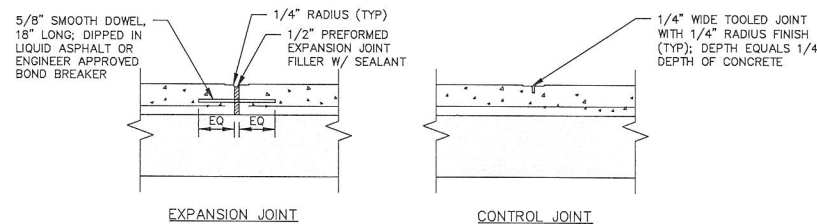
GRANITE CURB SECTION
NOT TO SCALE



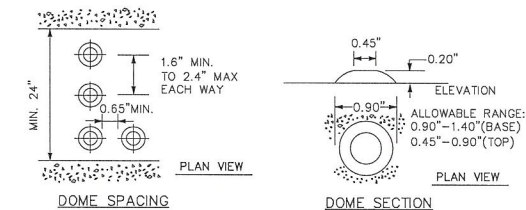
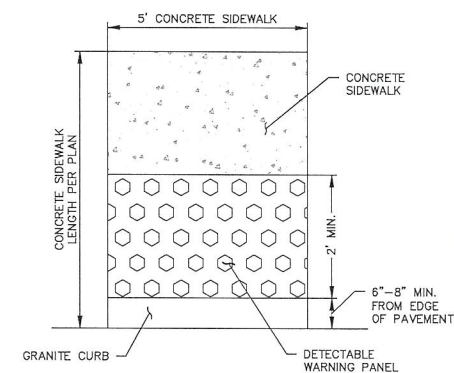
CONCRETE PIPE CAP
NOT TO SCALE



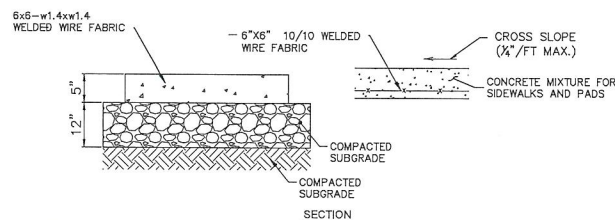
PLAN



TYPICAL CONCRETE SIDEWALK JOINTS
NOT TO SCALE



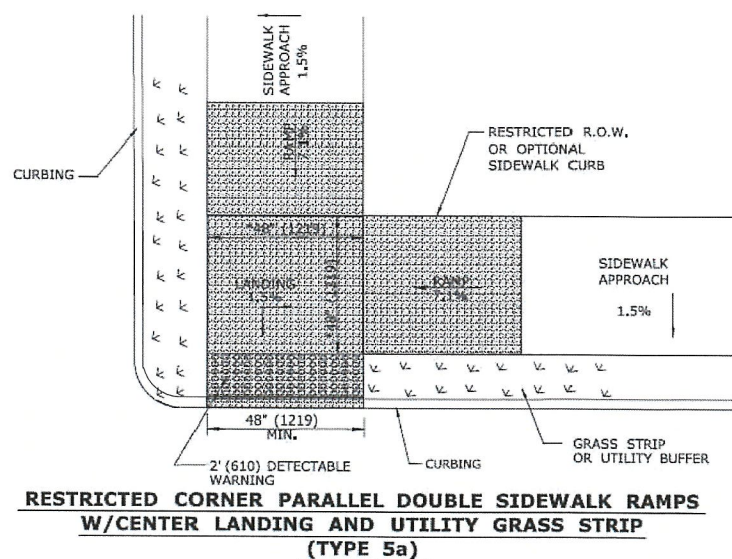
DETECTABLE WARNING PANEL
NOT TO SCALE



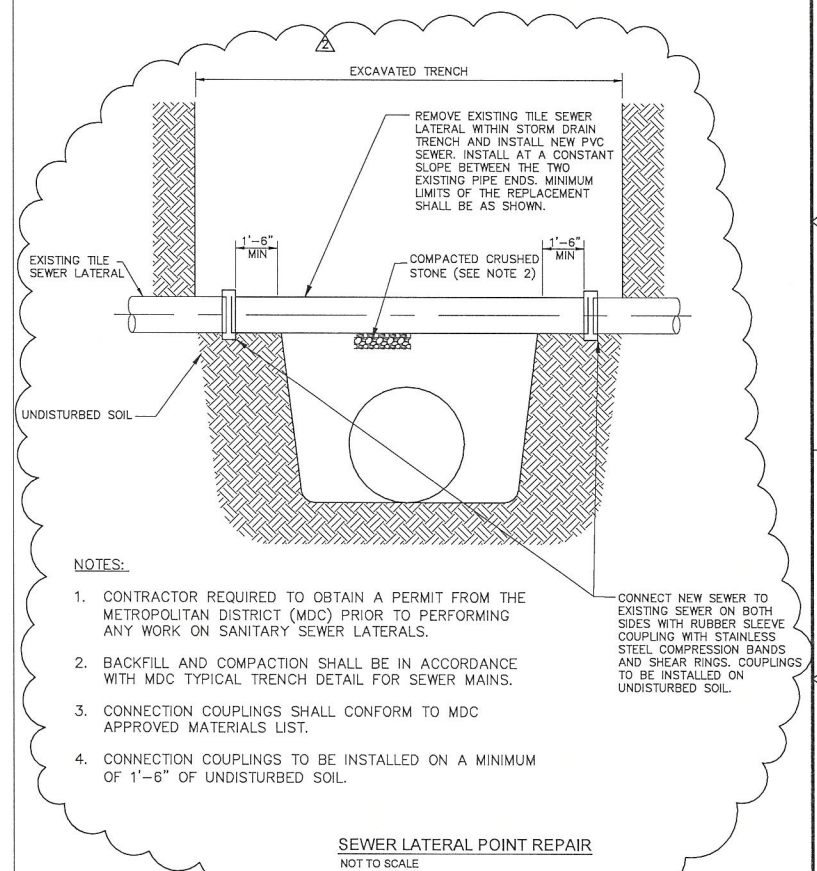
NOTES:

- INCREASE SLAB THICKNESS TO 8" OVER 9" GRAVEL BASE FOR SIDEWALKS CROSSING DRIVEWAYS AND OTHER VEHICULAR TRAFFIC LOADED AREAS.
- REMOVE CONCRETE WALKS TO THE NEAREST EXPANSION JOINT AT THE LOCATIONS NOTED ON THE PLANS.
- MATCH WIDTH AND PROVIDE FLUSH TRANSITION BETWEEN NEW AND EXISTING CONCRETE SIDEWALK.

CONCRETE SIDEWALK
NOT TO SCALE



RESTRICTED CORNER PARALLEL DOUBLE SIDEWALK RAMPS
W/CENTER LANDING AND UTILITY GRASS STRIP
(TYPE 5a)



NOTES:

- CONTRACTOR REQUIRED TO OBTAIN A PERMIT FROM THE METROPOLITAN DISTRICT (MDC) PRIOR TO PERFORMING ANY WORK ON SANITARY SEWER LATERALS.
- BACKFILL AND COMPACTION SHALL BE IN ACCORDANCE WITH MDC TYPICAL TRENCH DETAIL FOR SEWER MAINS.
- CONNECTION COUPLINGS SHALL CONFORM TO MDC APPROVED MATERIALS LIST.
- CONNECTION COUPLINGS TO BE INSTALLED ON A MINIMUM OF 1'-6" OF UNDISTURBED SOIL.

SEWER LATERAL POINT REPAIR
NOT TO SCALE

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	06/2019	MK	GBS	MDC REVISIONS/ADDENDUM # A

PROJECT NO.:	1962
DESIGNED BY:	SJH
DRAWN BY:	NJM
SHEET CHK'D BY:	SJH
CROSS CHK'D BY:	GBS
APPROVED BY:	TG
DATE:	OCTOBER, 2018

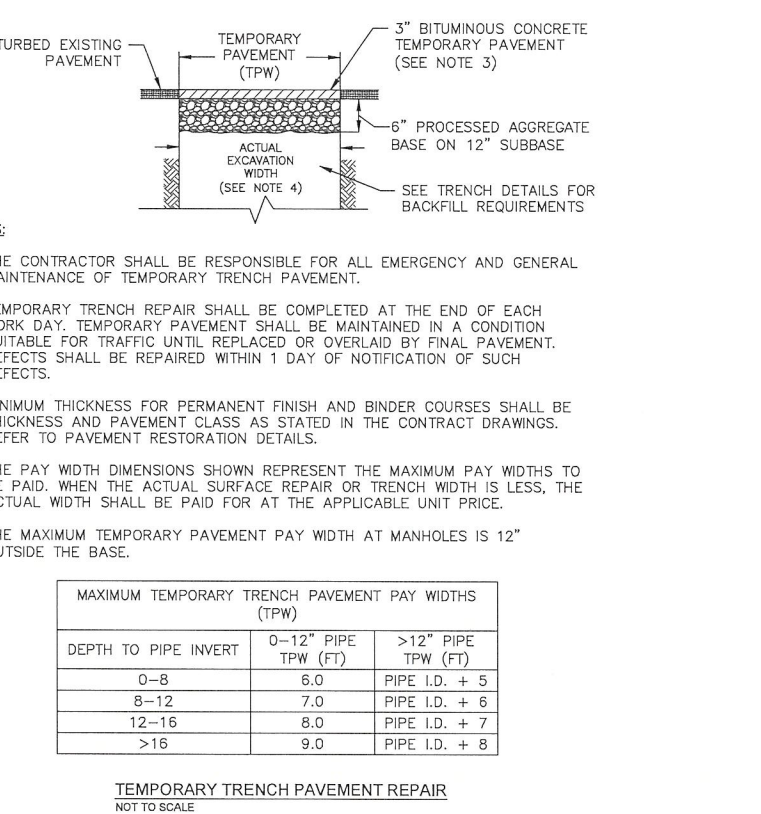
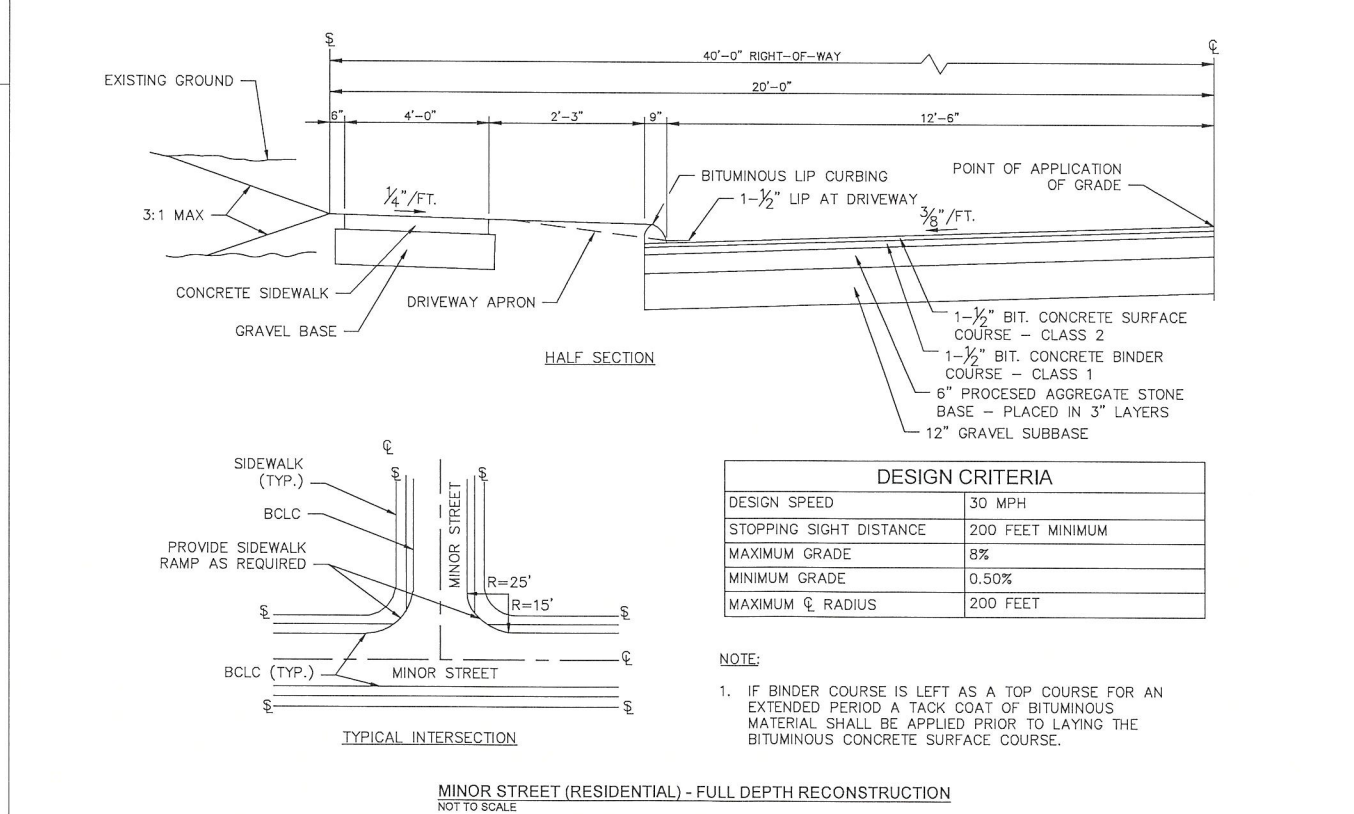
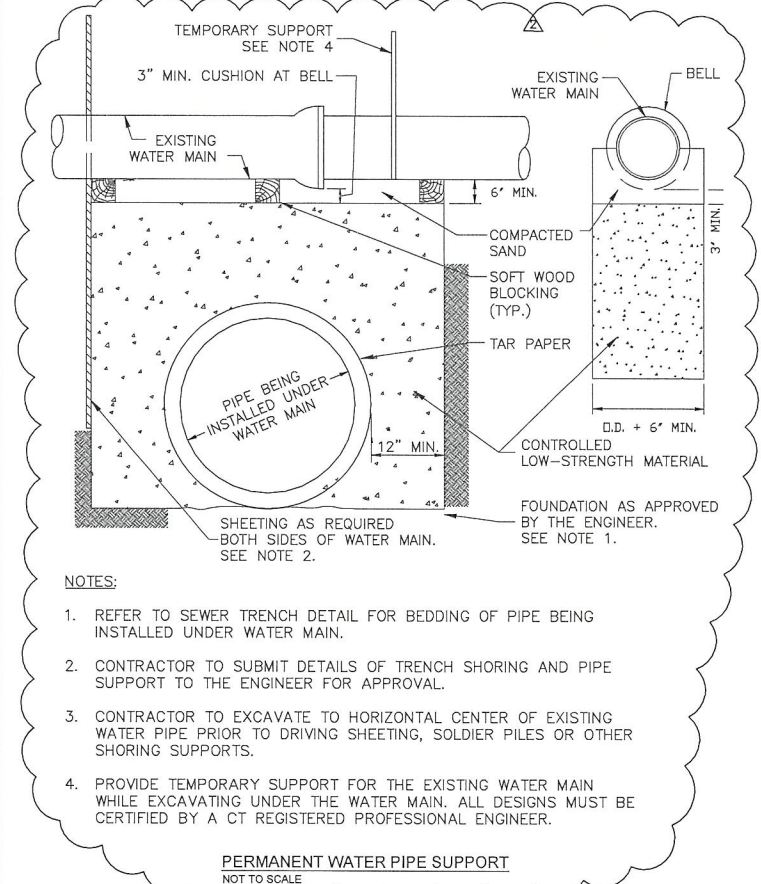
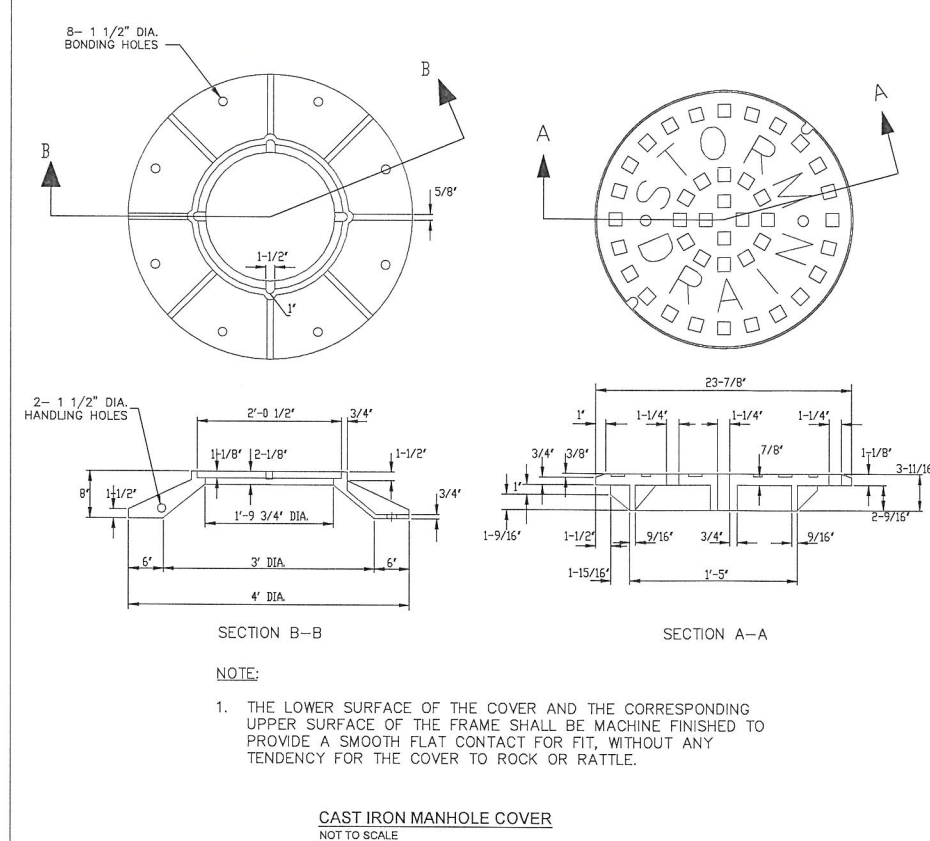
PREPARED FOR:
GOODWIN COLLEGE
ONE RIVERSIDE DRIVE
EAST HARTFORD, CONNECTICUT

PREPARED BY:
ZUVIC • CARR AND ASSOCIATES
CONSULTING ENGINEERS
40 Cold Spring Road • Rocky Hill, CT 06067
Phone 860.436.4901 • Fax 860.436.4953


ENSIGN STREET
DRAINAGE DESIGN
ENSIGN STREET
EAST HARTFORD, CONNECTICUT

CIVIL DETAILS

SHEET NO.
CD-1



					PROJECT NO.: 1962
					DESIGNED BY: SJH
					DRAWN BY: NJM
					SHEET CHK'D BY: SJH
1	05/2019	MK	GBS	MDC REVISIONS/ADDENDUM # 1	CROSS CHK'D BY: GBS
REV. NO.	DATE	DRWN	CHKD	REMARKS	APPROVED BY: TG
					DATE: OCTOBER, 2018

	<p>PREPARED FOR:</p> <div data-bbox="1153 1792 1227 1810">  </div> <p>GOODWIN COLLEGE</p> <p>ONE RIVERSIDE DRIVE EAST HARTFORD, CONNECTICUT</p>
--	---

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DRAINAGE DESIGN

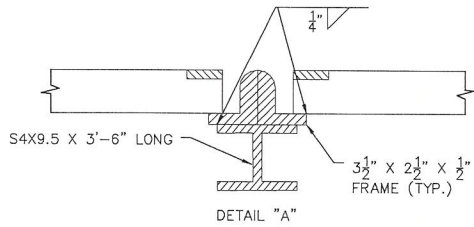
ENSIGN STREET
EAST HARTFORD, CONNECTICUT

CIVIL DETAILS

SHEET NO.

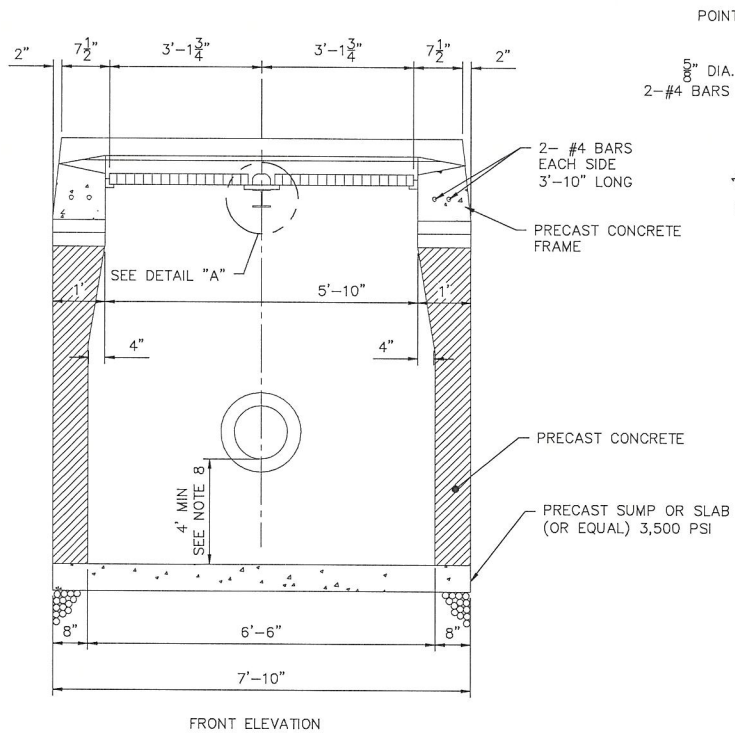
CD-2

NOTE: USE C-L GRATE FOR A TYPE C-L DOUBLE GRATE BASIN.

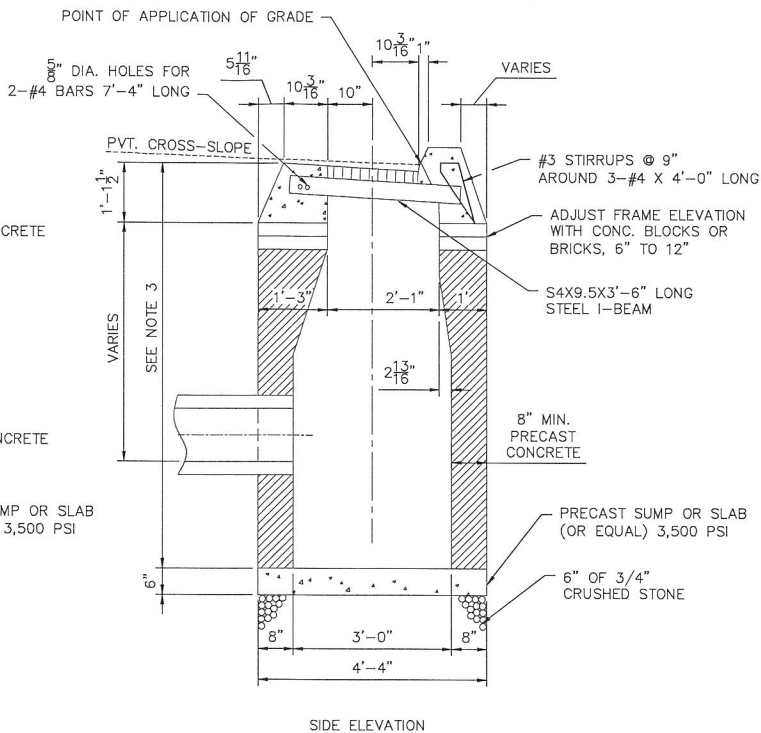


NOTES:

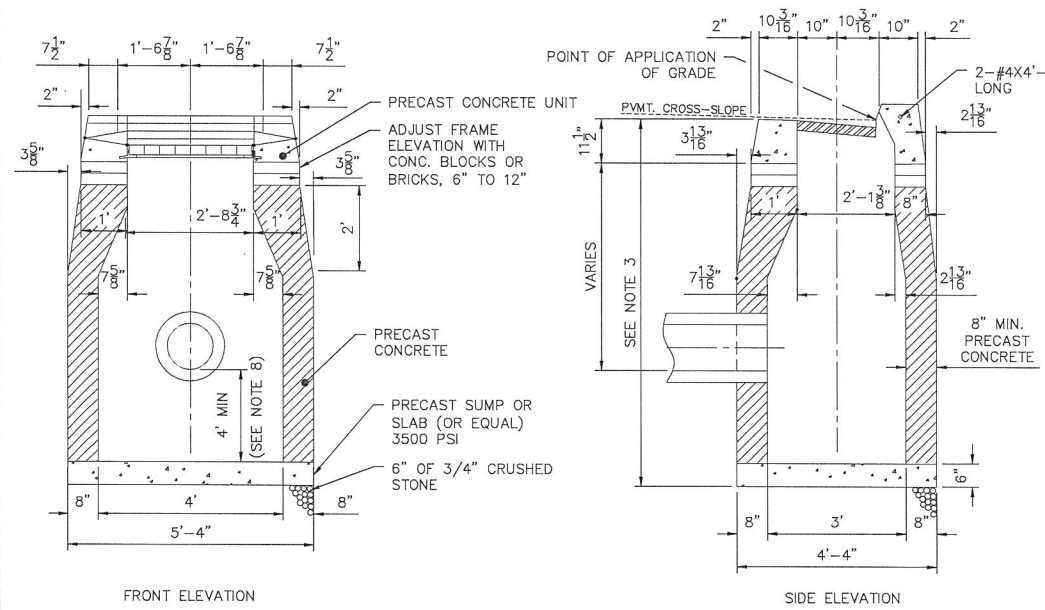
1. EXCEPT FOR CLASS V RCP, MINIMUM COVER OVER TOP OF PIPE SHALL BE 2'-0".
2. WALL THICKNESS SHALL BE SUFFICIENT TO MEET HS-20 LOADING.
3. WALL THICKNESS FOR STRUCTURES OVER 10' HIGH IS 12" FOR CONCRETE BLOCK UNITS. INSIDE DIMENSIONS REMAIN THE SAME.
4. ALL PIPES SHALL BE CUT FLUSH WITH INSIDE WALLS.
5. ALL BRICKS SHALL BE CONCRETE.
6. ALL PIPE PENETRATIONS SHALL BE PARGED SMOOTH TO PROVIDE A WATERTIGHT SEAL BOTH INSIDE AND OUTSIDE THE BASIN.
7. INSIDE WALLS OF STRUCTURE TO BE SMOOTH. NO SHELVES ALLOWED.
8. IF A 4' SUMP IS NOT POSSIBLE DUE TO UTILITY CONFLICTS OR SITE CONSTRAINTS, A 2' SUMP MAY BE SUBMITTED FOR APPROVAL BY THE ENGINEER.
9. FRAME AND GRATE SHALL BE GALVANIZED.



TYPE "C" CATCH BASIN DOUBLE GRATE TYPE II
NOT TO SCALE



SIDE ELEVATION

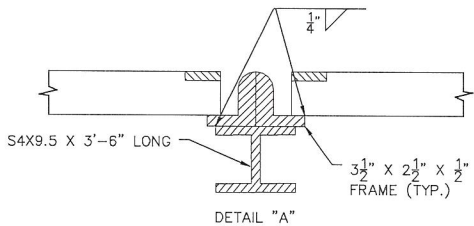


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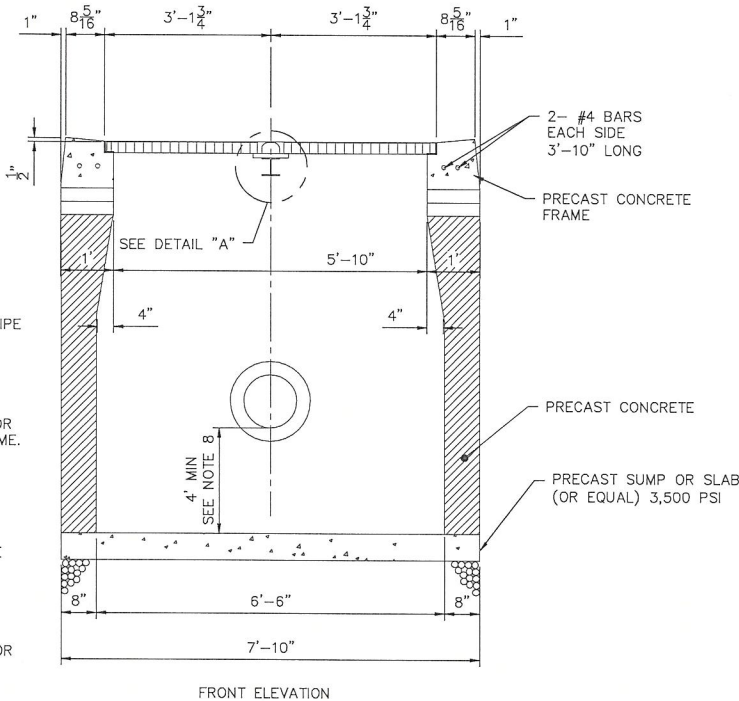
TYPE "C" CATCH BASIN
NOT TO SCALE

NOTE: USE C-L GRATE FOR A TYPE C-L DOUBLE GRATE BASIN.



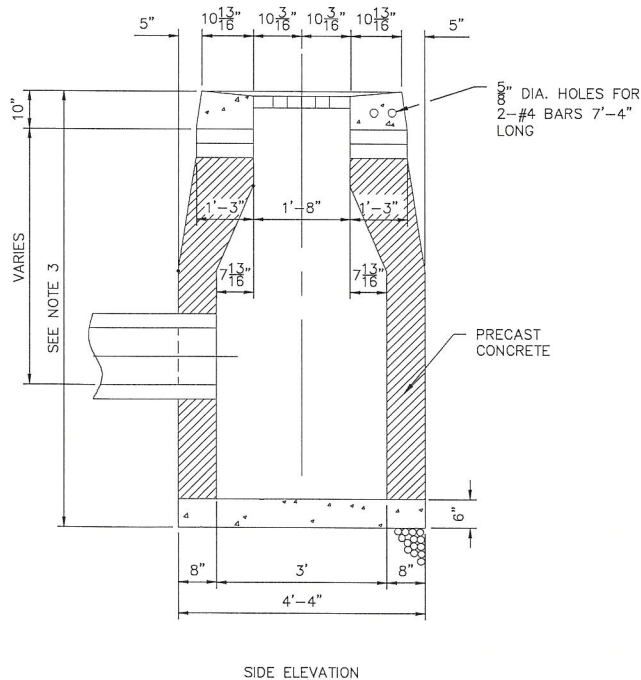
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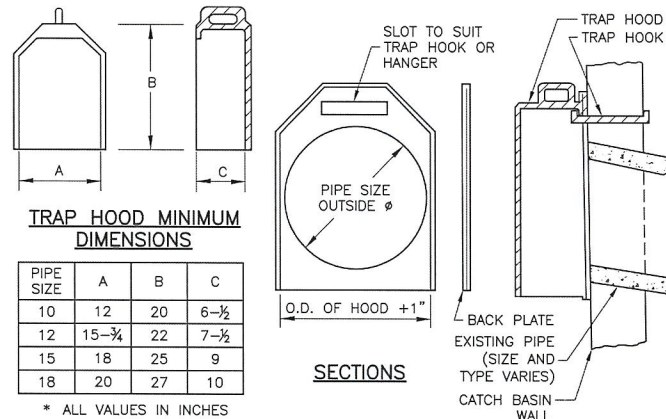


FRONT ELEVATION

TYPE "CL" CATCH BASIN DOUBLE GRATE TYPE II
NOT TO SCALE



SIDE ELEVATION



TRAP HOOD MINIMUM
DIMENSIONS

PIPE SIZE	A	B	C
10	12	20	6-1/2
12	15-3/4	22	7-1/2
15	18	25	9
18	20	27	10

* ALL VALUES IN INCHES

NOTES:

1. TRAP HOODS SHALL BE CAST IRON FOR 10", 12", 15" AND 18" PIPE SIZES AND FABRICATED ALUMINUM FOR PIPES 21" AND GREATER.
2. ALL TRAP HOODS SHALL INCLUDE STAINLESS STEEL HOOKS OR HANGERS FOR MOUNTING TO THE CATCH BASIN WALL. BACK PLATES SHALL BE FURNISHED ONLY WHEN REQUESTED.
3. TRAP HOODS SHALL BE FROM CAMPBELL FOUNDRY, NEENAH FOUNDRY, EAST JORDAN IRON WORKS OR APPROVED EQUAL. DIMENSIONS AND MODEL NUMBERS VARY BASED ON DISCHARGE PIPE SIZE AND MANUFACTURER.
4. SEE MANUFACTURER FOR INSTALLATION INSTRUCTIONS.

CATCH BASIN TRAP HOOD
NOT TO SCALE

FILE PATH: H:\Projects\Goodwin College\1962 - Ensign Drainage Design\AutoCAD\1962 - CD.dwg PLOT DATE: 6/7/2019 PLOT TIME: 1:17:28 PM

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