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**Design Consultants, Inc.**  
CIVIL ENGINEERS and LAND SURVEYORS

120 MIDDLESEX AVENUE  
SOMERVILLE, MA 02145  
617-776-3350

SCALE:  
HORIZ: 1" = 30'  
VERT:

NO. DATE BY

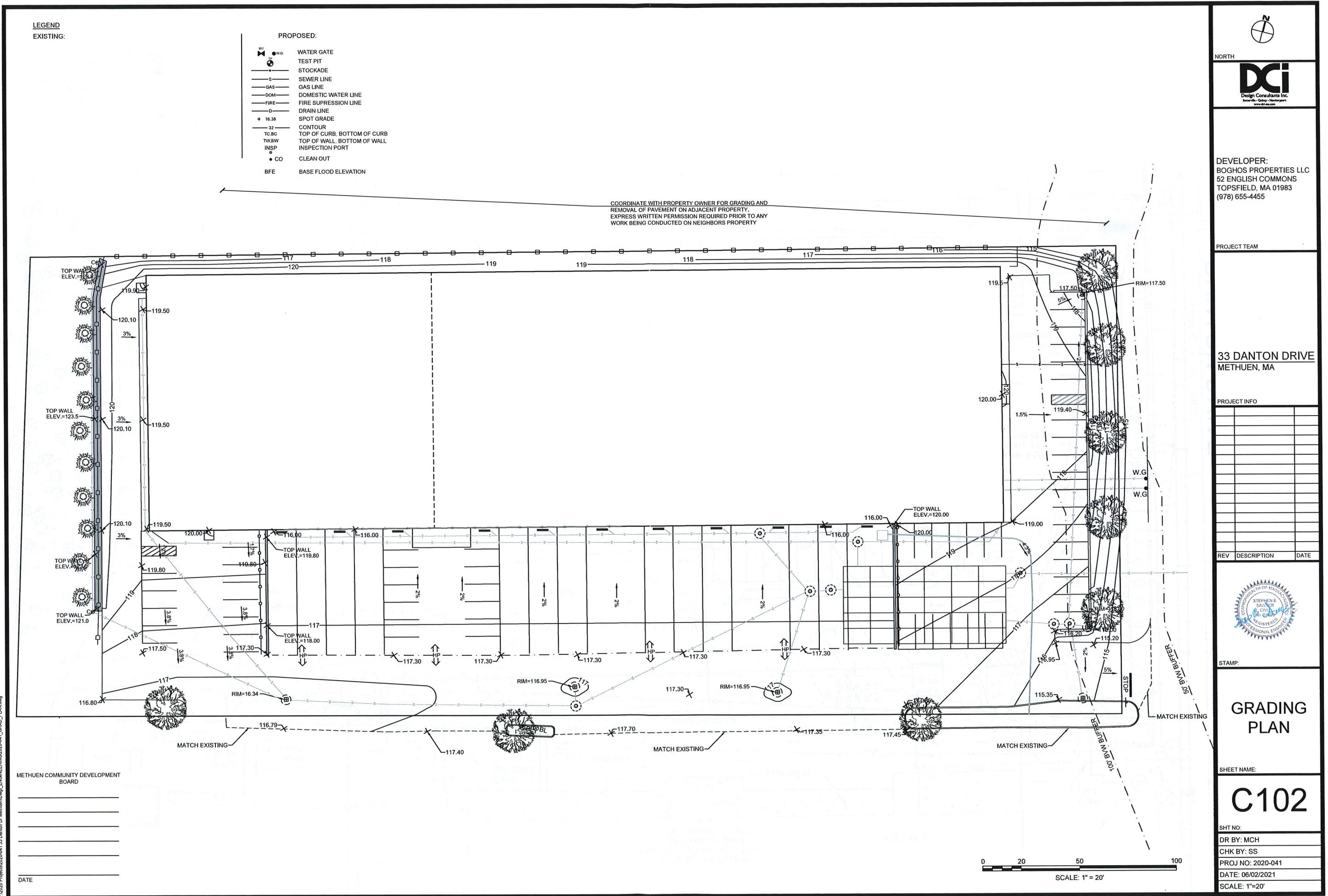
FIELD: LG  
CALCS: RTC  
CHECKED: KJK  
APPROVED: KJK  
REVISIONS

EXISTING CONDITIONS PLAN  
33 DANTON DRIVE

LAND LOCATED IN  
METHUEN, MASSACHUSETTS  
SURVEYED FOR  
NABIL BOGHOS

PROJECT NO.  
2020-041  
DATE: DEC 7, 2020  
SHEET NO.  
1 OF 1





LEGEND  
EXISTING:

	W.G.	WATER GATE
	TEST PIT	
	STOCKADE	
	SEWER LINE	
	GAS LINE	
	DOM. WATER LINE	
	FIRE SUPPRESSION LINE	
	DRAIN LINE	
+ 16.38	SPOT GRADE	
32	CONTOUR	
TC BC	TOP OF CURB, BOTTOM OF CURB	
TWBW	TOP OF WALL, BOTTOM OF WALL	
INSPI	INSPECTION PORT	
CO	CLEAN OUT	

UTILITY & DRAINAGE NOTES

- THE LOCATION OF AND SIZE OF BURIED UTILITIES ARE THE RESULT OF SURFACE EVIDENCE AS LOCATED BY FIELD SURVEY DESIGN CONSULTANTS INC., PLANS OF RECORD & PLANS FROM RESPECTIVE UTILITY COMPANIES.
- THIS PLAN DOES NOT NECESSARILY DEPICT THE EXACT LOCATION AND SIZE OF ALL UTILITIES WHICH MAY EXIST AT THIS TIME INSIDE OR OUTSIDE OF EXISTING OR PROPOSED BUILDINGS, ON THE SUBJECT PROPERTY, WITHIN THE STREET ROW, OR ON ADJACENT LOTS.
- CONTACT DIG-SAFE AT 1-888-344-7233 OR 1-800-322-4844 AT LEAST 72 HOURS PRIOR TO EXCAVATION.
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE AND EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- FINAL DEMARCACTION POINTS FOR GAS, ELECTRIC, TELEPHONE, AND COMMUNICATION SERVICE ENTRANCES ARE SUBJECT TO APPROVALS OF EACH PROVIDER.
- ALL UTILITIES SHOWN ON THIS SITE ARE TO THE EXTERIOR OF THE BUILDING FOUNDATION ONLY. UTILITIES THROUGH THE FOUNDATION AND INSIDE THE BUILDING ARE THE RESPONSIBILITY OF THE MECHANICAL ENGINEER. SEE MECHANICAL ENGINEERING PLANS.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND RECORDING THE EXACT LOCATION OF ALL PROPOSED UTILITY CONNECTIONS.
- THE CONTRACTOR SHALL SUPPLY ALL PIPING FOR THE UTILITY SERVICES AND SHALL SUPPLY ALL ASSOCIATED APPURTENANCES, FITTING AND VALVES UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL PERFORM ALL WET AND DRY TAPS AS PART OF HISHER CONTRACT.
- PRIOR TO CONSTRUCTION OF NEW SANITARY SEWER AND STORM DRAIN LINES, CONTRACTOR SHALL PERFORM TEST PITS AT LOCATIONS OF EXISTING LATERALS CONNECTIONS FOR SANITARY SEWER AND STORM DRAINS TO CONFIRM INVERTS OF LATERALS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER IMMEDIATELY.
- WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION SHALL BE FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
- TRENCH AREAS FOR THE CONSTRUCTION OF THE UNDERGROUND UTILITIES ARE TO BE REPAVED WITH SAME MATERIAL AT THE SAME DEPTH AS THE EXISTING MATERIAL. THE AREAS OF TRENCHING SHALL BE NEATLY SAW-CUT AND THE NEW PATCHING MATERIAL SHALL BE PROPERLY SEALED IN ACCORDANCE WITH THE CITY OF MELHUEEN MUNICIPAL STANDARDS.
- DURING EXCAVATION AND CONSTRUCTION OF PIPES AND STRUCTURES, TRENCHES MUST BE ADEQUATELY BRACED AND PROTECTED AGAINST CAVE-IN.
- NO TRENCHES ARE ALLOWED TO REMAIN OPEN OVERNIGHT. ALL TRENCHES SHALL BE BACKFILLED AT THE END OF THE WORK DAY OR COVERED WITH STEEL PLATES PER 520 CMR 14.00 EXCAVATION AND TRENCH SAFETY, IF STEEL PLATES ARE USED, THE TOTAL LENGTH OF PLATES IN THE TRAVELED WAY SHALL NOT EXCEED 50'.
- NO DRY UTILITY DESIGN IS SHOWN. CONTRACTOR RESPONSIBLE FOR COORDINATING WITH RESPECTIVE UTILITY COMPANY'S ELECTRICAL AND PLUMBING ENGINEERS AS NECESSARY TO PROVIDE BUILDING SERVICES.



DEVELOPER:  
BOGHOS PROPERTIES LLC  
52 ENGLISH COMMONS  
TOPSFIELD, MA 01983  
(978) 655-4455

PROJECT TEAM

33 DANTON DRIVE  
METHUEN, MA

PROJECT INFO

REV DESCRIPTION DATE



STAMP:

UTILITY  
PLAN

SHEET NAME:

C103

SHT NO:

DR BY: JEH

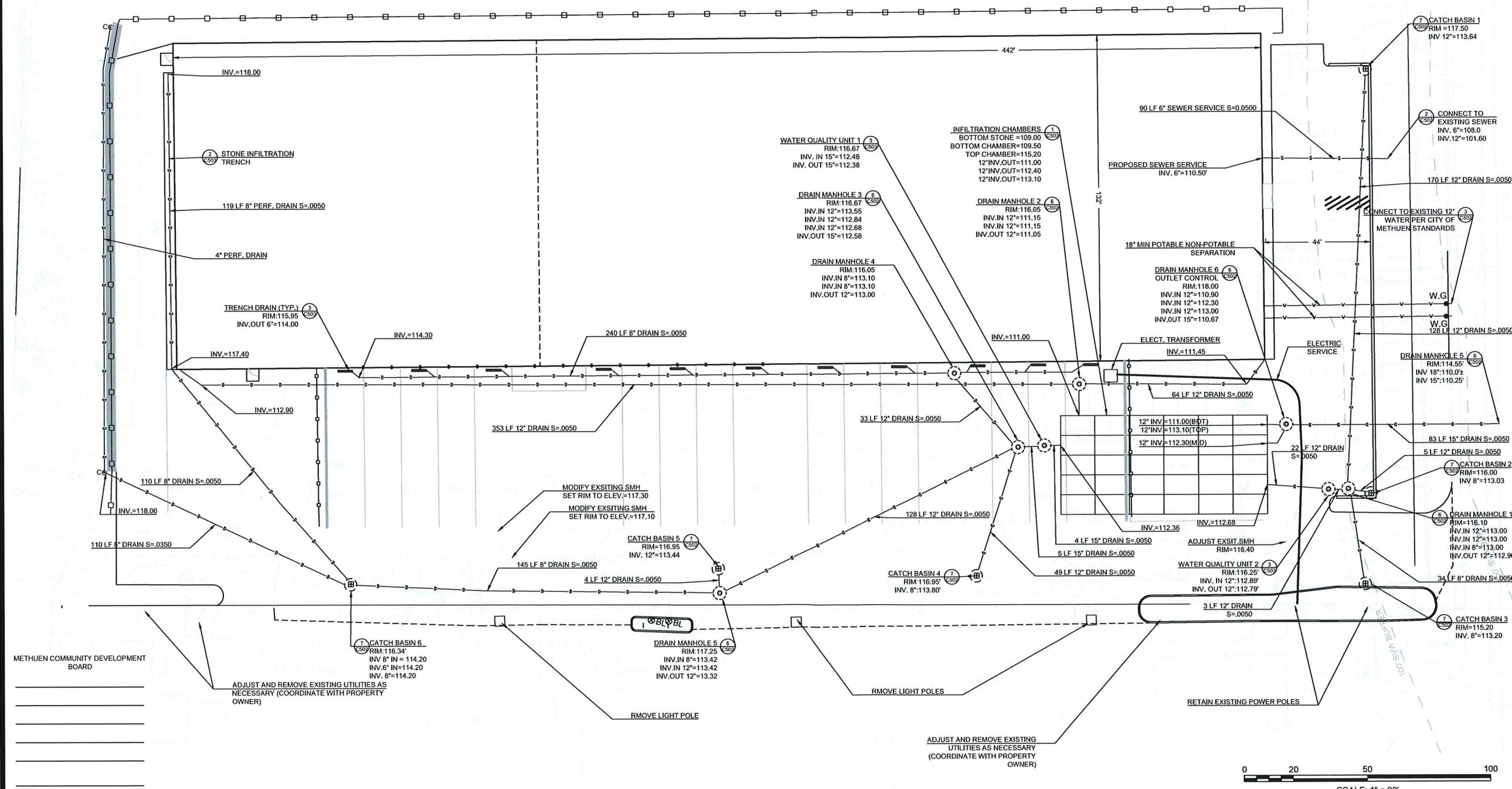
CHK BY: SS

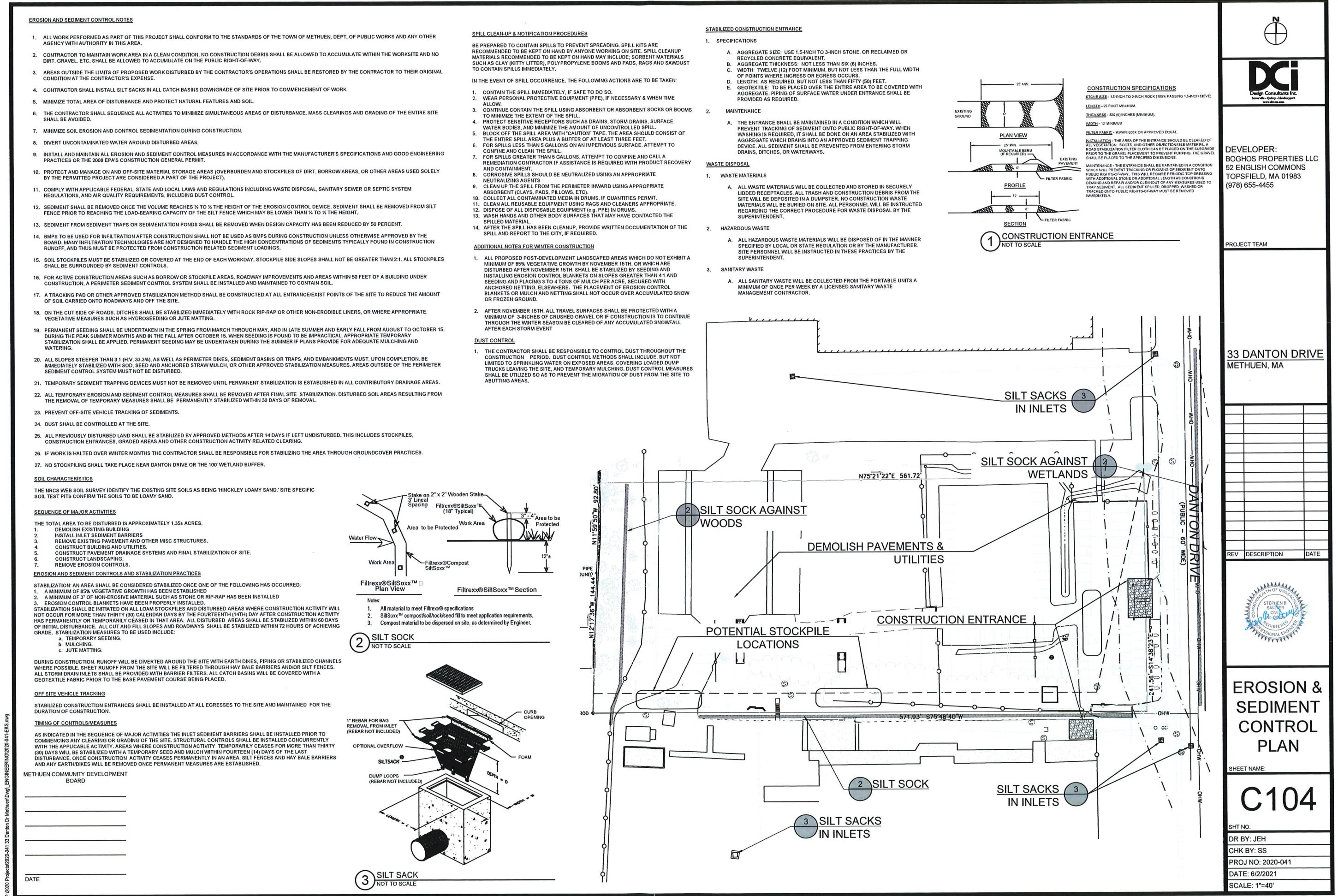
PROJ NO: 2020-041

DATE: 6/2/2021

SCALE: 1"=20'

SCALE: 1"=20'





DEVELOPER:  
BOGHOS PROPERTIES LLC  
52 ENGLISH COMMONS  
TOPSFIELD, MA 01983  
(978) 655-4455

PROJECT TEAM

33 DANTON DRIVE  
METHUEN, MA

PROJECT INFO

REV DESCRIPTION DATE



STAMP:

## SITE & GRADING DETAILS

SHEET NAME:

**C501**

SHT NO:

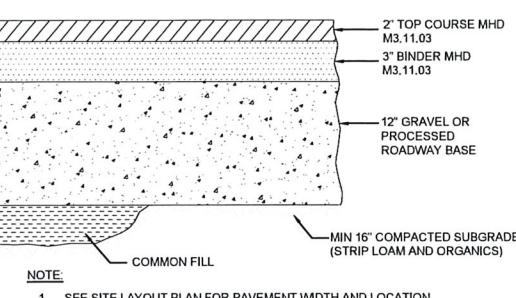
DR BY: JEH

CHK BY: SS

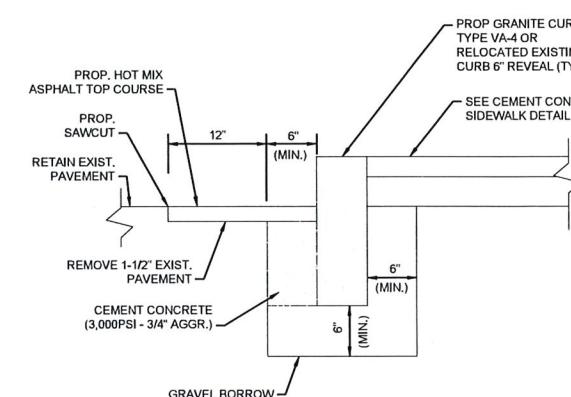
PROJ NO: 2020-041

DATE: 06/20/2021

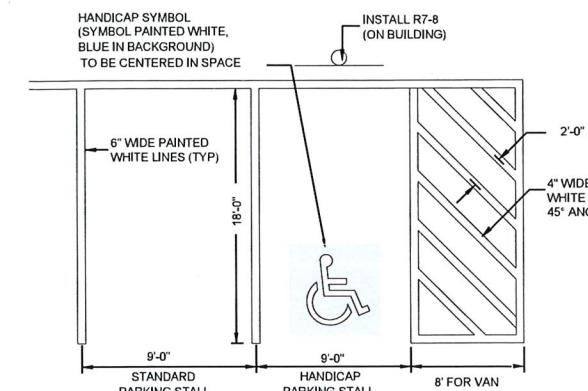
SCALE: NTS



**1 BITUMINOUS CONCRETE PAVEMENT**  
NOT TO SCALE



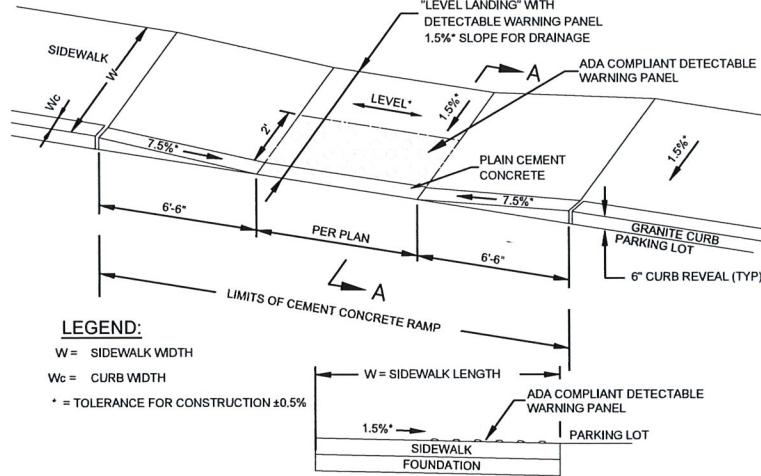
**2 VERTICAL GRANITE CURB**  
NOT TO SCALE



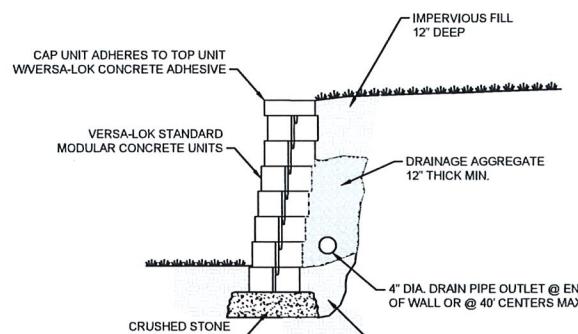
NOTE:  
1. ALL PAINT SHALL BE FAST DRYING WHITE TRAFFIC PAINT, MEET THE REQUIREMENTS OF AASHTO M248-TYPE N. PAINT SHALL BE APPLIED AS SPECIFIED BY MANUFACTURER.

2. SYMBOLS & PARKING STALLS SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN WITH DISABILITIES ACT.

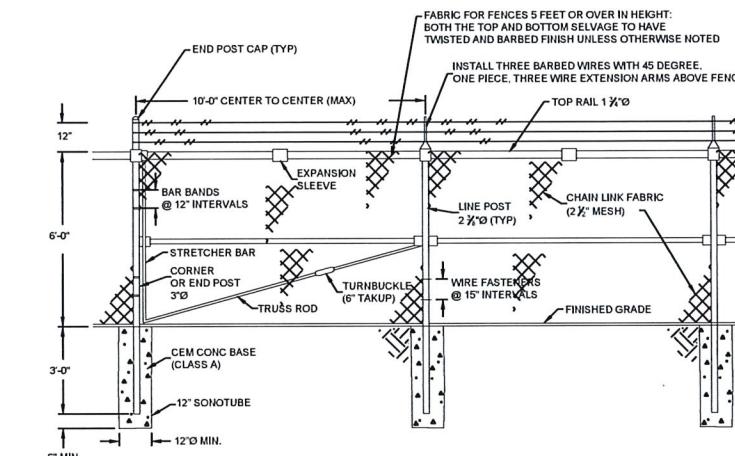
**3 ACCESSIBLE PARKING SPACE**  
NOT TO SCALE



**4 CURB RAMP**  
NOT TO SCALE



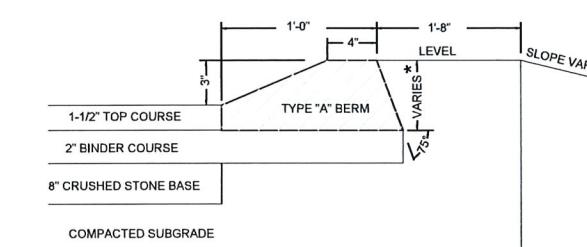
NOTES:  
WALL DETAIL IS PRELIMINARY. CONTRACTOR TO PROVIDE SUBMITTALS REGARDING FINAL WALL CONFIGURATION



NOTES: ALL FENCE MATERIALS SHALL BE HOT-DIPPED GALVANIZED

## CHAIN LINK FENCE

**5 RETAINING WALL**  
NOT TO SCALE

NOTES:  
\* THIS DIMENSION VARIES WITH THE THICKNESS OF THE TOP COURSE AND SLOPE OF SHOULDER

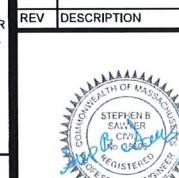
**7 HOT MIX ASPHALT BERM**  
NOT TO SCALE

DEVELOPER:  
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TOPSFIELD, MA 01983  
(978) 655-4455

PROJECT TEAM

33 DANTON DRIVE  
METHUEN, MA

PROJECT INFO



STAMP:

## UTILITY DETAILS

SHEET NAME:

C502

SHT NO.

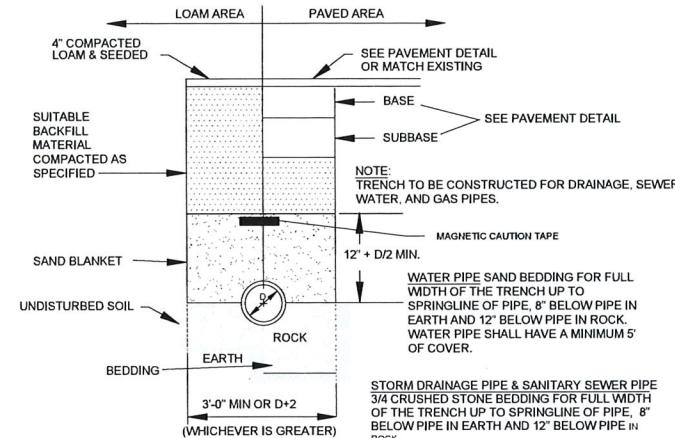
DR BY: JEH

CHK BY: SS

PROJ NO: 2020-041

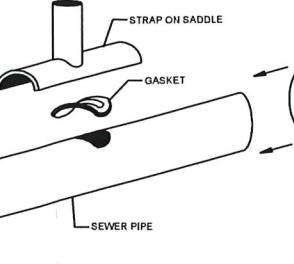
DATE: 06/02/2021

SCALE: NTS

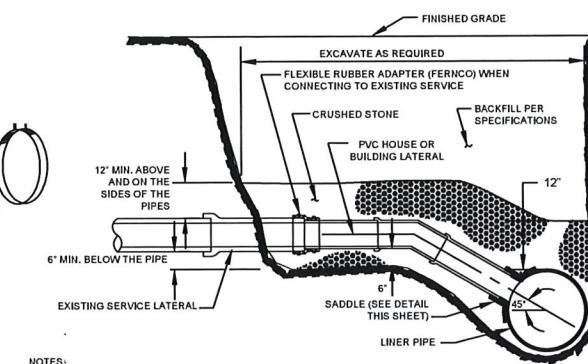


BACKFILL MATERIAL BELOW PAVED OR CONCRETE AREAS, BEDDING MATERIAL, AND SAND BLANKET SHALL BE COMPACTED TO NOT LESS THAN 95% OF AASHTO T 99, METHOD C. SUITABLE BACKFILL MATERIAL BELOW LOAM AREAS SHALL BE COMPACTED TO NOT LESS THAN 90% OF AASHTO T 99, METHOD C.

### 1 UTILITY TRENCH

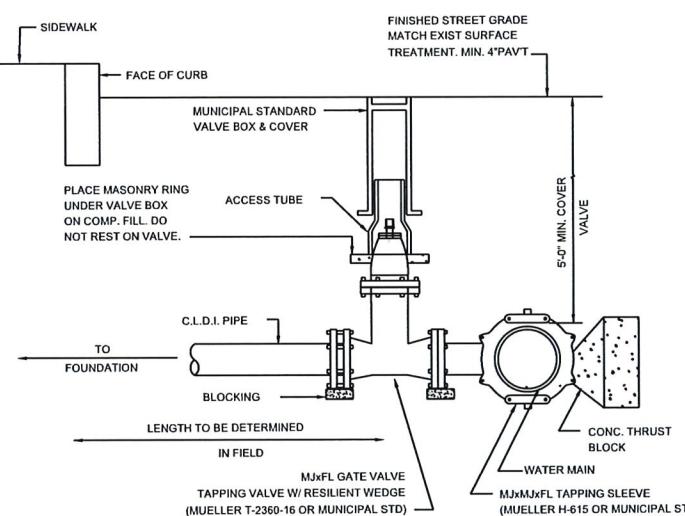


### SADDLE CONNECTION - PLAN



NOTES:  
1. REPLACE EXISTING SERVICE LINE TO EXTENT SHOWN ON PLAN/PROFILES AND AS SPECIFIED.

### SADDLE CONNECTION - SECTION



NOTE:  
1. ALL WATER DISTRIBUTION VALVES, FITTINGS, AND PIPING SHALL COMPLY WITH ALL MUNICIPAL STANDARDS.  
2. DETAIL UTILIZED FOR 4, 6, OR 8 INCH SERVICE PIPE.

### 3 WATER MAIN CONNECTION AT STREET MAIN

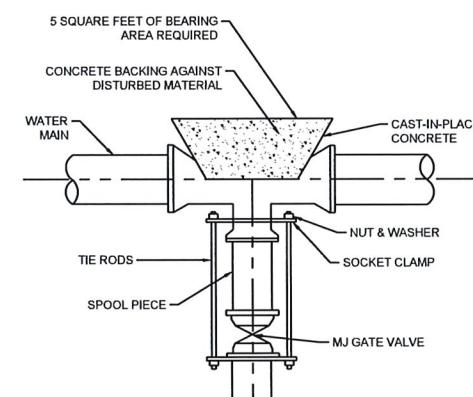
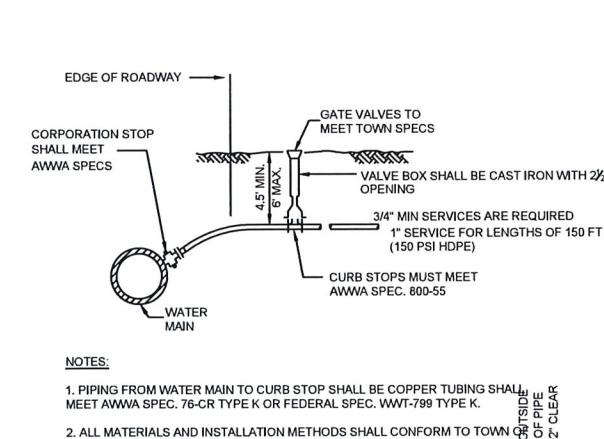
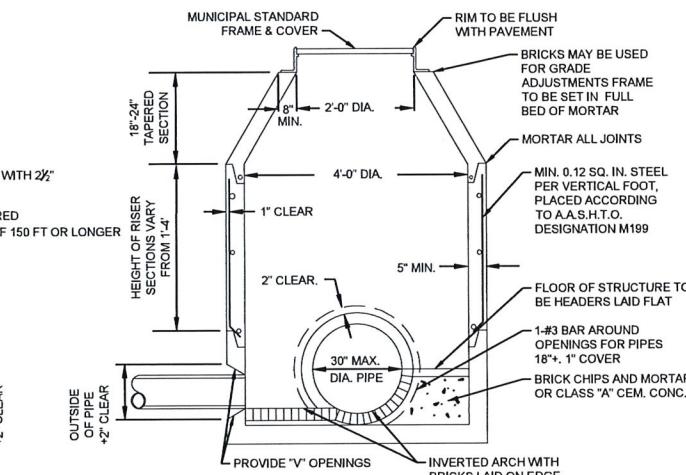


TABLE OF BEARING AREAS IN SQUARE FEET AGAINST UNDISTURBED MATERIAL FOR WATER MAIN FITTINGS			
SIZE OF MAIN (IN.)	45° BEND	TEES & PLUGS	22.5° BEND
8" OR LESS	4	5	2
10"	6	8	3
12"	9	12	5
16"	12	16	7
20"	20	25	10

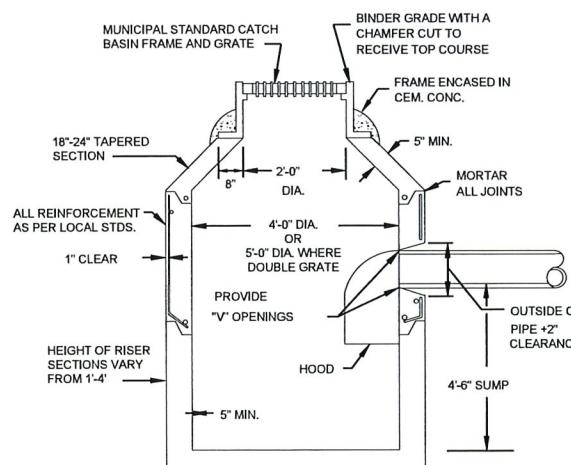
### 4 THRUST BLOCKING



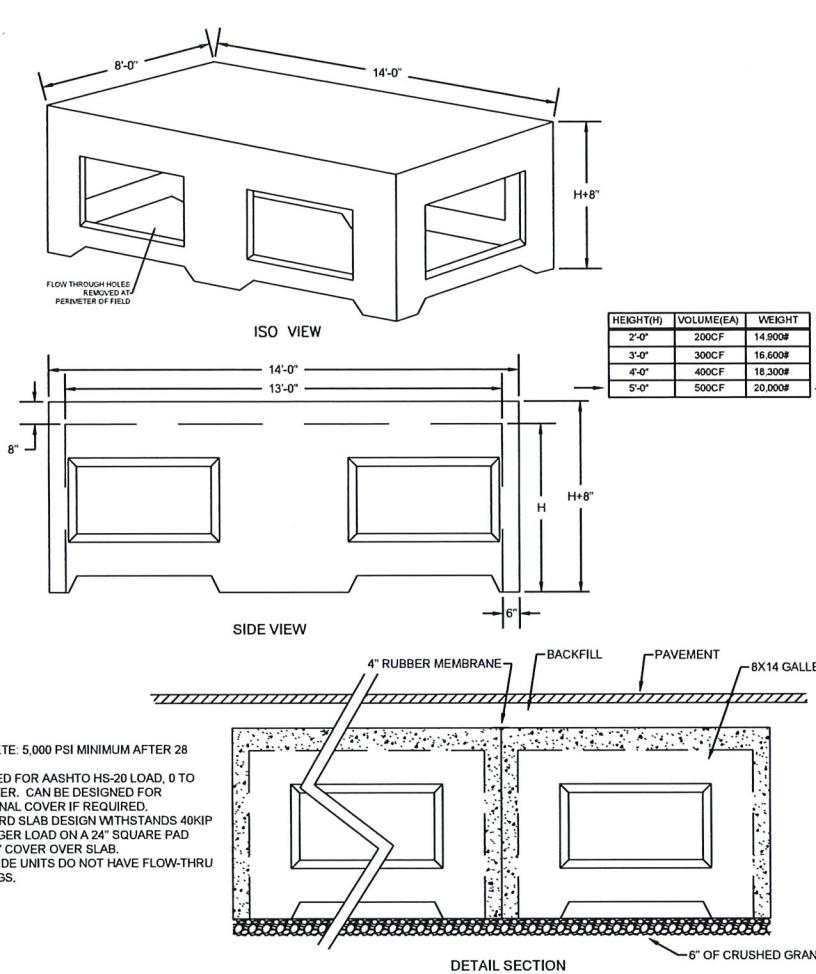
### 5 DOMESTIC WATER SERVICE CONNECTION



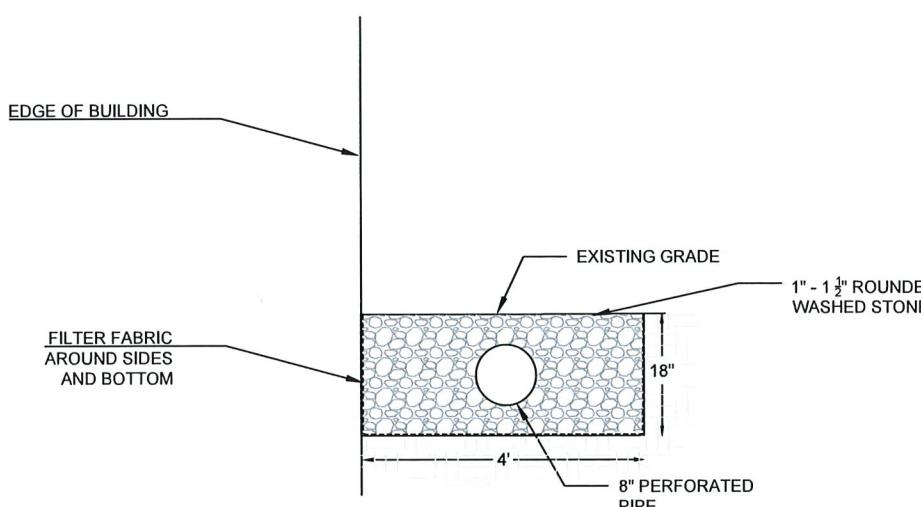
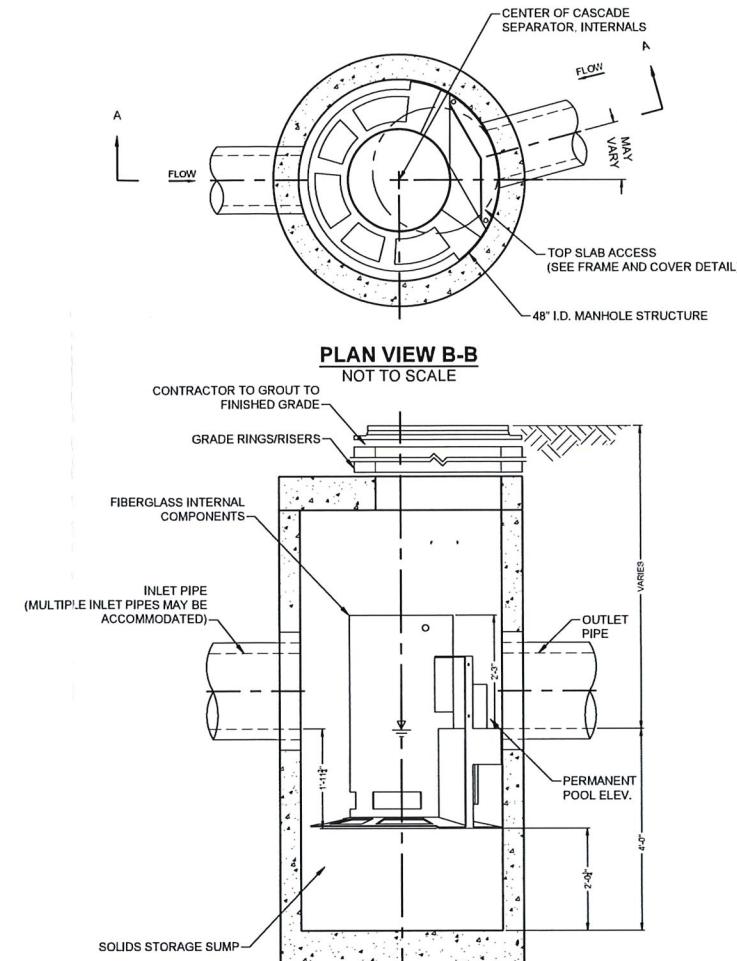
### 6 PRECAST CONCRETE DRAIN MANHOLE



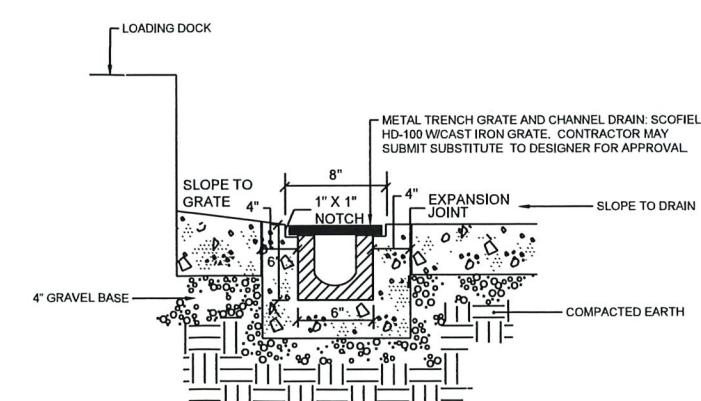
### 7 CB (CATCH BASIN)



① DRYWELL/INFILTRATION SYSTEM



③ STONE INFILTRATION TRENCH



④ TRENCH DRAIN

METHUEN COMMUNITY DEVELOPMENT BOARD

SHEET NAME:

C503

SHT NO:

DR BY: JEH

CHK BY: SS

PROJ NO: 2020-041

DATE: 06/02/2021

SCALE: NTS



DEVELOPER:  
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PROJECT TEAM

33 DANTON DRIVE  
METHUEN, MA

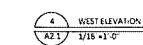
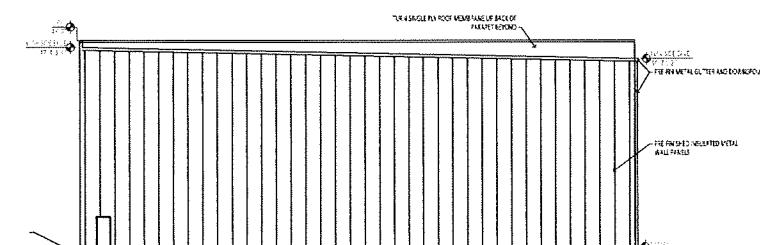
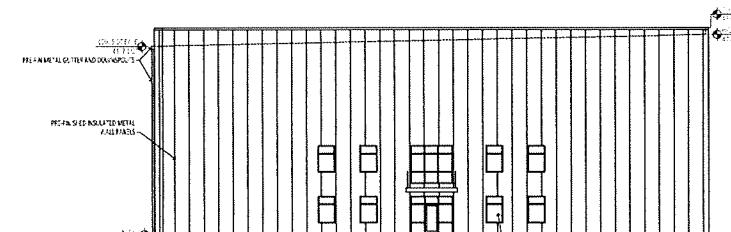
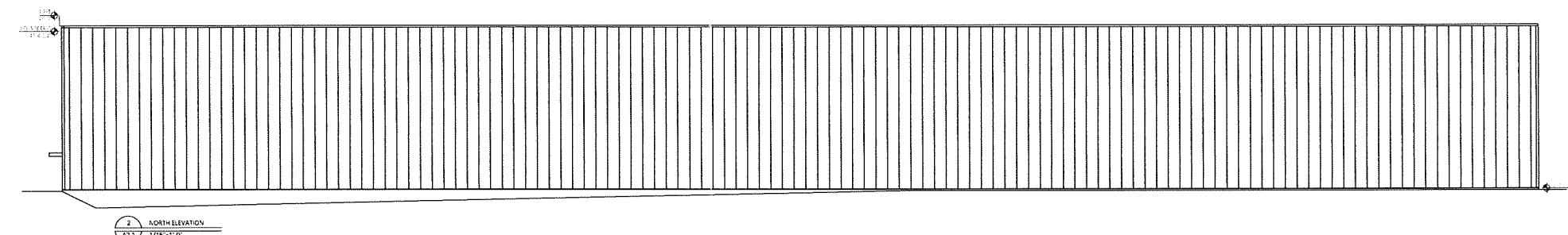
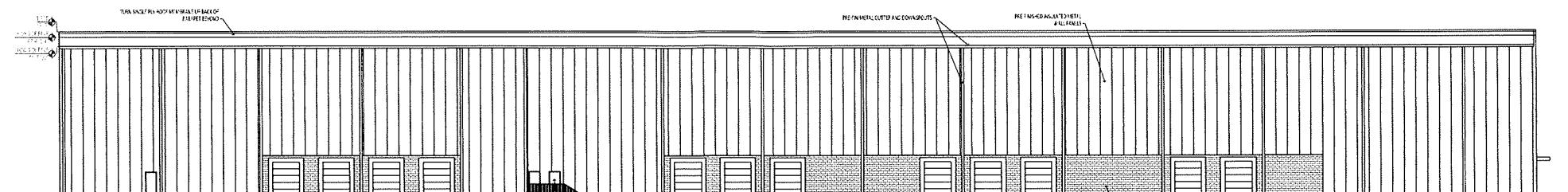
PROJECT INFO

REV DESCRIPTION DATE



STAMP:

DRAINAGE  
DETAILS



Project Title:  
**REFRIGERATED WAREHOUSE**  
**33 DANTON DRIVE**  
**METHUEN, MA**

Drawing Title: **ELEVATIONS** Seal

Released for Construction Date: 27MAY21

<b>Revisions</b>		These drawings are for the exclusive use of the Architect's service for use solely with respect to this project. These drawings shall not be used by the Owner or others on any other project or portion of the project or completed or of the project by others except by written agreement.	
		Project No: _____	
		<b>A2.1</b>	
		Sheet <u>      </u> of <u>      </u>	
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PH  
Patrick Higgins  
ARCHITECT

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without the Architect's  
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