PROPOSED BUILDING EXPANSION

200 SHUMAN AVENUE

STOUGHTON, MASSACHUSETTS 02072



LOCUS MAP
(NOT TO SCALE)

SUMMARY OF ZONING RELIEF REQUESTED

ZBL SECTION	REQUIREMENT	REQUEST
§4.1.2.	40-FOOT MINIMUM REAR YARD FOR INDUSTRIAL (I) DISTRICT	VARIANCE TO ALLOW BUILDING ADDITION WITHIN 40-FOOT REAR YARD SETBACK (FROM ZONING BOARD OF APPEALS)
§6.1.6.8. & 9.	MINIMUM PARKING FOR WAREHOUSE AND MANUFACTURING ESTABLISHMENTS	SPECIAL PERMIT TO REDUCE NUMBER OF PARKING SPACES PROVIDED (FROM PLANNING BOARD PER §6.1.9.)
§10.6.10.A.	TRAFFIC IMPACT ASSESSMENT REQUIRED AS PART OF DEVELOPMENT IMPACT REPORT TO ACCOMPANY SITE PLAN APPROVAL APPLICATION	WAIVER OF REQUIREMENT TO PROVIDE TRAFFIC IMPACT ASSESSMENT (FROM PLANNING BOARD PER §10.6.8.)
§10.6.10.C.	EARTHWORK CUTS OF MORE THAN FOUR (4) FEET PROHIBITED	WAIVER OF REQUIREMENT OF EARTHWORK CUTS OF MORE THAN FOUR (4) FEET (FROM PLANNING BOARD PER §10.6.10.C.)

OWNER/APPLICANT:

TSC SHUMAN 200 LLC
C/O THE SHEARWATER COMPANIES
200 SHUMAN AVENUE
RAYNHAM, MASSACHUSETTS
TEL: (508) 386-9895
ATTN:JAMIE CIFFOLILLO
WWW.SHEARWATERCOMPANIES.COM

DEVELOPER:

THE SHEARWATER COMPANIES LLC
175 PARAMOUNT DRIVE
RAYNHAM, MASSACHUSETTS 02767
TEL: (508) 386-9895
ATTN:JAMIE CIFFOLILLO
WWW.SHEARWATERCOMPANIES.COM

ASSESSOR'S ID:

200 SHUMAN AVENUE
MAP: 88
PARCEL ID: 088_142
DEED BK: 35335
PAGE: 197

TURNPIKE STREET
MAP: 89
PARCEL ID: 089_142 (PARTIAL)
DEED BK: 37991
PAGE: 7

ISSUED FOR PERMIT: SITE PLAN APPROVAL/SPECIAL PERMIT APPLICATION
NOTICE OF INTENT APPLICATION
SUBMISSION DATE: FEBRUARY 10, 2021
REVISED PER TOWN COMMENTS: MARCH 15, 2021
FINAL APPROVAL PLANS: APRIL 27, 2021

PROJECT TEAM:

CIVIL ENGINEER:
HIGHPOINT ENGINEERING
45 DAN ROAD, SUITE 140
CANTON, MA 02021
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ATTN: MICHAEL FABBIANO
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ENVIRONMENTAL:
ECOTEC, INC
6102 GROVE STREET
WORCESTER, MA 01605-2629
TEL: (508) 752-9666
FAX: (508) 752-9494
ATTN: JOHN ROCKWOOD

SITE ELECTRICAL:
ELECTRICAL SYSTEMS ENGINEERING, INC.
22 MANCHESTER ROAD, SUITE 8A
DERRY, NH 03038
TEL: (603) 870-9009
FAX: (603) 432-4255
ATTN: ROBERT GREENE

ARCHITECT:
DJSA ARCHITECTURE PC
175 PARAMOUNT DRIVE, SUITE 202
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TEL: (508) 697-8200
ATTN: ZACH SILVIA
WWW.DJSA.COM

LAND SURVEY:
ALPHA SURVEY GROUP LLC
695 WAREHAM STREET
MIDDLEBORO, MA 02346
TEL: (508) 295-5505
FAX: (508) 295-5535
ATTN: JAMES E. PETERSON

LEGAL COUNSEL:
LAW OFFICES OF BARRY R. CRIMMINS P.C.
909 WASHINGTON STREET
STOUGHTON, MA 02072
TEL: (781) 344-2886
FAX: (781) 341-4218
ATTN: BARRY R. CRIMMINS
WWW.BRC-LAW.COM

INDEX OF DRAWINGS

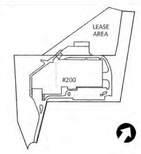
	ISSUE HISTORY:	LOCAL APPROVAL 02/10/2021	REV PER TOWN COMMENTS 03/15/2021	REVISED PER TOWN COMMENTS 03/25/2021	FINAL APPROVAL PLANS 04/27/2021			
CIVIL								
T100	TITLE SHEET	●	●		●			
G001	GENERAL NOTES SHEET	●	●		●			
G002	GENERAL LEGEND SHEET	●	●		●			
G003	DEVELOPMENT KEY SHEET	●	●		●			
C100	ZONING CONFORMANCE PLAN	●	●		●			
C101	SNOW MANAGEMENT & SIGNAGE PLAN		●		●			
C200	SITE PREPARATION & EROSION CONTROL PLAN	●	●		●			
C201	SITE PREPARATION & EROSION CONTROL PLAN	●	●		●			
C202	SITE PREPARATION & EROSION CONTROL PLAN	●	●		●			
C203	SITE PREPARATION & EROSION CONTROL PLAN	●	●		●			
C204	SITE PREPARATION & EROSION CONTROL PLAN	●	●		●			
C205	SITE PREPARATION & EROSION CONTROL PLAN	●	●		●			
C300	LAYOUT & MATERIALS PLAN	●	●		●			
C301	LAYOUT & MATERIALS PLAN	●	●		●			
C302	LAYOUT & MATERIALS PLAN	●	●		●			
C303	LAYOUT & MATERIALS PLAN	●	●		●			
C304	LAYOUT & MATERIALS PLAN	●	●		●			
C305	LAYOUT & MATERIALS PLAN	●	●		●			
C306	ADA/AAB CONFORMANCE PLAN		●		●			
C400	GRADING & DRAINAGE PLAN	●	●		●			
C401	GRADING & DRAINAGE PLAN	●	●		●			
C402	GRADING & DRAINAGE PLAN	●	●		●			
C403	GRADING & DRAINAGE PLAN	●	●		●			
C404	GRADING & DRAINAGE PLAN	●	●		●			
C405	GRADING & DRAINAGE PLAN	●	●		●			
C500	UTILITY PLAN	●	●		●			
C501	UTILITY PLAN	●	●		●			
C502	UTILITY PLAN	●	●		●			
C503	UTILITY PLAN	●	●		●			
C504	UTILITY PLAN	●	●		●			
C505	SANITARY SEWER PROFILE PLAN		●		●			
C506	SANITARY SEWER PROFILE PLAN		●		●			
C600	DETAIL SHEET	●	●		●			
C601	DETAIL SHEET	●	●		●			
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C603	DETAIL SHEET	●	●		●			
C604	DETAIL SHEET	●	●		●			
C605	DETAIL SHEET	●	●		●			
C606	SOIL TEST PIT LOGS		●		●			

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LANDSCAPE								
L100	LANDSCAPE PLAN	●	●	●	●			
L101	LANDSCAPE PLAN	●	●	●	●			
L102	LANDSCAPE PLAN	●	●		●			
L103	LANDSCAPE PLAN	●	●	●	●			
L104	LANDSCAPE PLAN	●	●		●			
L105	LANDSCAPE PLAN	●	●	●	●			
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A101	SCHEMATIC FLOOR PLAN	●			●			
A201	RENDERINGS	●			●			
A300	ROOF PLAN				●			
A301	PROPOSED EXTERIOR ELEVATIONS I	●			●			
A302	PROPOSED EXTERIOR ELEVATIONS II	●			●			
SITE ELECTRICAL								
PH1.1	SITE LIGHTING PHOTOMETRIC PLAN	●			●			
PH1.2	SITE LIGHTING PHOTOMETRIC DETAILS	●			●			
REFERENCE								
--	EXISTING CONDITIONS SURVEY (KEY SHEET)	●			●			
1 OF 7	EXISTING CONDITIONS SURVEY	●			●			
2 OF 7	EXISTING CONDITIONS SURVEY	●			●			
3 OF 7	EXISTING CONDITIONS SURVEY	●			●			
4 OF 7	EXISTING CONDITIONS SURVEY	●			●			
5 OF 7	EXISTING CONDITIONS SURVEY	●			●			
6 OF 7	EXISTING CONDITIONS SURVEY	●			●			
7 OF 7	EXISTING CONDITIONS SURVEY	●			●			
REFERENCE								
D100	SIGNED PLANNING BOARD DECISION		●		●			

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KEY:



SEAL



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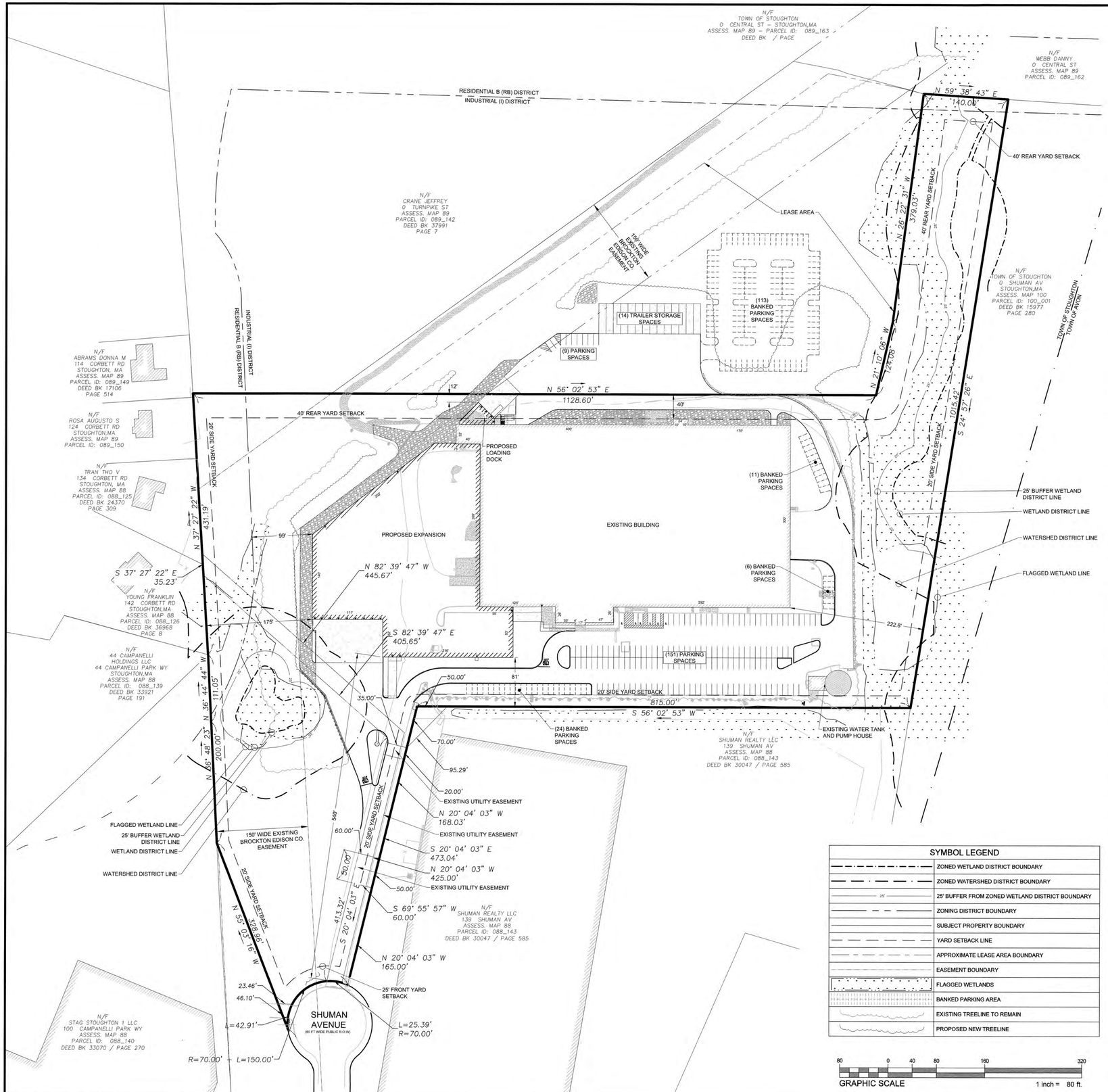
ISSUE TYPE:
LOCAL APPROVAL
ISSUE DATE:
FEBRUARY 10, 2021
PROJECT NUMBER:
20033

DRAWN BY: JJA/CM
CHECKED BY: DJH

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SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
T100



SYMBOL LEGEND	
	ZONED WETLAND DISTRICT BOUNDARY
	ZONED WATERSHED DISTRICT BOUNDARY
25'	25' BUFFER FROM ZONED WETLAND DISTRICT BOUNDARY
	ZONING DISTRICT BOUNDARY
	SUBJECT PROPERTY BOUNDARY
	YARD SETBACK LINE
	APPROXIMATE LEASE AREA BOUNDARY
	EASEMENT BOUNDARY
	FLAGGED WETLANDS
	BANKED PARKING AREA
	EXISTING TREELINE TO REMAIN
	PROPOSED NEW TREELINE

80 0 40 80 160 320

GRAPHIC SCALE 1 inch = 80 ft.

ZONING SUMMARY			
ZONING DISTRICT:	INDUSTRIAL (I); RESIDENTIAL SUBURBAN B (RB)		
OVERLAY DISTRICT	WETLAND AND WATERSHED		
CRITERIA	REQUIRED	EXISTING	PROPOSED
LOT AREA (MIN)	80,000 SF	809,128 SF	NO CHANGE
LOT WIDTH (MIN)	125 FT	160 FT	NO CHANGE
LOT DEPTH (MIN)	125 FT	1,012 FT	NO CHANGE
LOT FRONTAGE (MIN)	150 FT	160 FT	NO CHANGE
SETBACKS (MIN)			
FRONT	25 FT	661 FT	540 FT
SIDE	20 FT	134 FT	81 FT
REAR	40 FT	40 FT	12 FT (SEE NOTE 1)
BUILDING COVERAGE (MAX)	50%	19%	30%
OPEN SPACE (MIN)	25%	72%	60%
BUILDING HEIGHT (MAX)	40 FT; 4 ST	< 40 FT	39 FT
INTERIOR LANDSCAPING	15%	1%	6% (SEE NOTE 2)

NOTES
1. A VARIANCE TO ALLOW A BUILDING ADDITION WITHIN THE 40-FOOT REAR YARD SETBACK IS REQUIRED FROM THE ZONING BOARD OF APPEALS.
2. LANDSCAPING WITHIN THE ORIGINAL EXISITING PARKING FIELD HAS BEEN IMPROVED TO BE 16% NEW LANDSCAPING. WHILE THIS NEW LANDSCAPING IS NOT ALL INTERIOR TO THE NEW REDUCED PARKING LOT IT IS A SIGNIFICANT IMPROVEMENT OVER EXISITING CONDITIONS.

PARKING SUMMARY

	PARKING ALLOTMENT REQUIREMENTS				
	RATE	EXISTING	PROPOSED	PROPOSED	COMPLIANCE
BUILDING USE	REQUIRED	REQUIRED	REQUIRED	PROVIDED	
TENANT 1- GLOBE					
MANUFACTURING/ INDUSTRIAL	(NOTE 2)	103	236		
TENANT 2- MANCON					
WAREHOUSE	(NOTE 1)	78	78		
TOTAL		181	314	160	SEE NOTE 3

NOTES
1. WHOLESALE, WAREHOUSE OR STORAGE = 1 SPACE PER EACH 1,000 SF OF GROSS FLOOR SPACE.
2. MANUFACTURING OR INDUSTRIAL = 1 SPACE PER EACH 600 SF OF GROSS FLOOR SPACE OR 0.75 SPACES PER EACH EMPLOYEE OF THE COMBINED EMPLOYEMENT OF THE 2 LARGEST SUCCESSIVE SHIFTS WHICH EVER IS LARGER.
3. A SPECIAL PERMIT TO REDUCE PARKING SPACES OR COMBINE FACILITY REQUIREMENTS IS REQUESTED FROM THE PLANNING BOARD. 160 SPACES PROPOSED BASED ON EMPLOYEE COUNT. 154 SPACES ARE SHOWN AS BANKED SPACES TO SATISY ZONING COMPLIANCE. SEE ZONING RELIEF REQUEST SUMMARY BELOW.

PARKING DEMAND SUMMARY (PER EMPLOYEE/SHIFT COUNT)

	DESCRIPTION	USE	EMPLOYEE COUNT
GLOBE COMPOSITE SOLUTIONS	EXISTING MAX SHIFT	MANUFACTURING	84
	PROP MAX SHIFT (FUTURE)	MANUFACTURING	140
MANCON	EXISTING SHIFT 1	WAREHOUSE	10
	EXISTING SHIFT 2	WAREHOUSE	6
	PROPOSED SHIFT 1	WAREHOUSE	NO CHANGE
	PROPOSED SHIFT 1	WAREHOUSE	NO CHANGE
VISITORS	PROPOSED	VISITORS	5
TOTAL DEMAND			155
TOTAL PROVIDED			160

PARKING SUMMARY

CRITERIA	REQUIRED (FT)	PROPOSED (FT)	COMPLIANCE
STALL WIDTH	9	9	YES
STALL DEPTH	19	19	YES
LOADING BAY WIDTH X LENGTH X HEIGHT	14 x 45 x 14	14 x 60 x 14	YES
ACCESSIBLE STALLS	6	6	YES
VAN ACCESSIBLE STALLS	1 (8 W/ 8' AISLE)	2 (8 W/ 8' AISLE)	YES
DRIVE LANE (MIN)	24	24	YES
DRIVEWAY WIDTH (MAX)	40	35 (EXISTING)	YES
STREET SETBACK	20	500 (EXISTING)	YES

LAND USE SUMMARY

	INDUSTRIAL DISTRICT (AC)	RESIDENTIAL DISTRICT (AC)	TOTAL (AC)
LAND AREA (200 SHUMAN)	17.71	0.87	18.58
LAND AREA (LEASE AREA)	5.74	0.19	5.93
LAND AREA (TOTAL)	23.45	1.06	24.51

NOTES
1. THE MAJORITY OF THE LAND LIES WITHIN THE INDUSTRIAL (I) ZONING DISTRICT. APPROXIMATELY 1.06 ACRES IN THE WESTERN CORNER OF THE 200 SHUMAN LOT AND THE NORTHERNMOST PORTION OF THE LEASE AREA ARE LOCATED WITHIN THE RESIDENTIAL B (RB) DISTRICT.

BUILDING SUMMARY

TENANT #1: GLOBE

USE	EXISTING	PROPOSED	
MANUFACTURING	70,262 SF	151,562 SF	
TOTAL AREA	70,262 SF	151,262 SF	

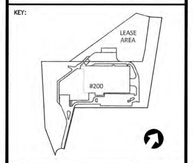
TENANT #2: MANCON

USE	EXISTING	PROPOSED	
WAREHOUSE	87,520 SF	NO CHANGE	
TOTAL AREA	87,520 SF	NO CHANGE	

TENANT #1 GLOBE SUBTOTAL AREA	70,262 SF	151,262 SF	
TENANT #2 MANCON SUBTOTAL AREA	87,520 SF	87,530 SF	
TOTAL AREA	157,782 SF	239,092 SF	

HIGHPOINT ENGINEERING, INC.
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SEAL



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200 SHUMAN AVENUE
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OWNER/APPLICANT: TSC SHUMAN 200 LLC

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CHECKED BY: JA

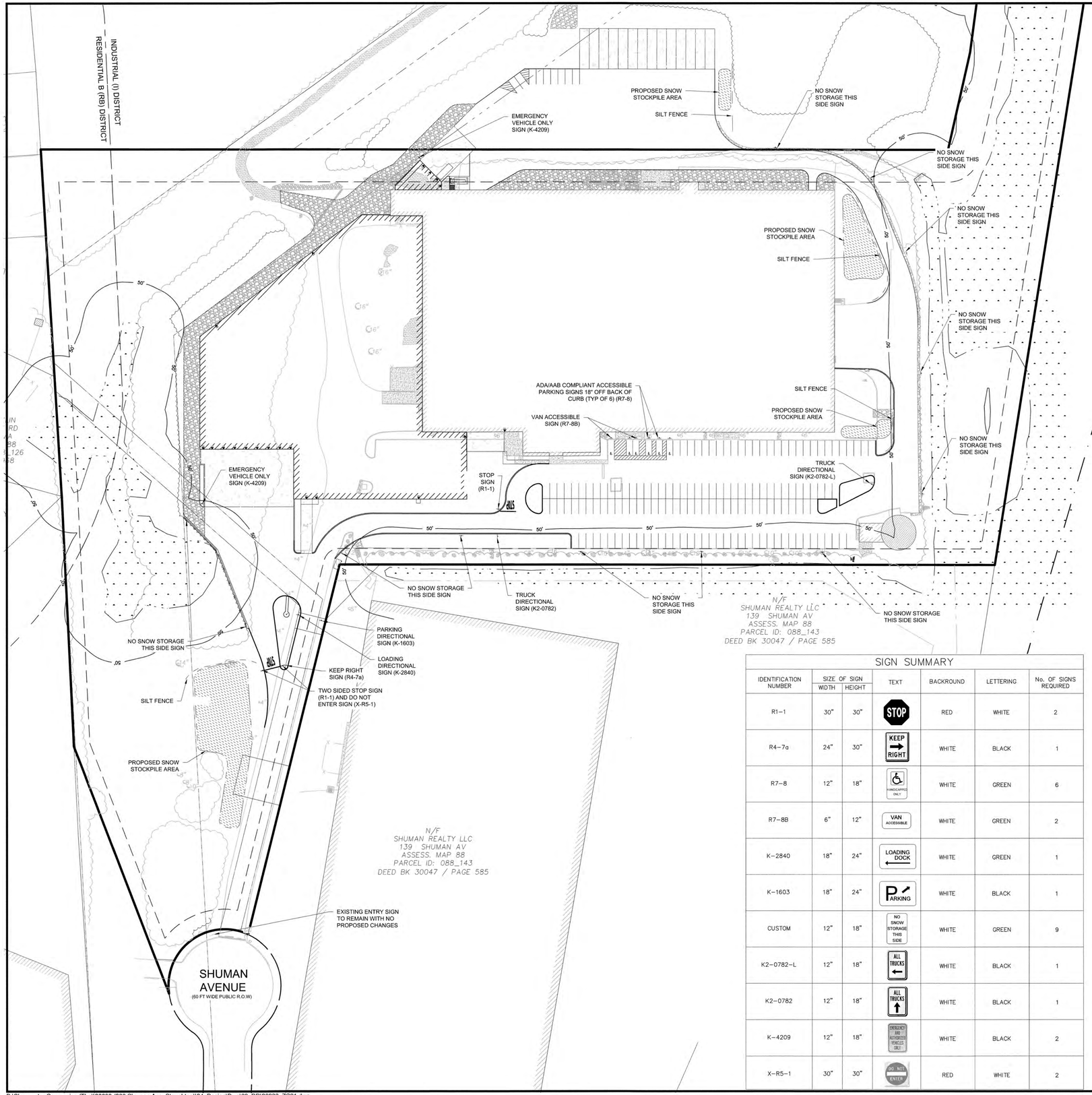
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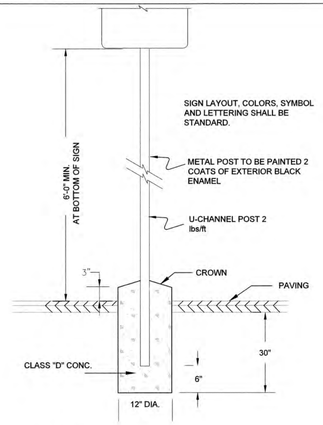
ZONING CONFORMANCE PLAN

SHEET NUMBER: C100

P:\Shearwater Companies (The)\20033 (200 Shuman Ave, Stoughton)\04_Design\Dwg\03_DD\20033_ZC01.dwg







NOTES:

1. ALL REGULATORY SIGNS / MOUNTINGS SHALL CONFORM TO UNIFORM TRAFFIC CONTROL DEVICES UTCD.

REGULATORY SIGN DETAIL
NOT TO SCALE **A2**

STANDARD SIGN POST SETTING

NOTE: 1. SIGN LAYOUT, COLORS, SYMBOL AND LETTERING SHALL BE STANDARD.
2. TO BE LOCATED ON SITE AS DIRECTED.
3. METAL POST TO BE PAINTED 2 COATS OF EXTERIOR GREEN ENAMEL (SEE SPECS.).
4. TO BE LOCATED AT APPROPRIATE SPACES.

SIGN POST DETAIL
NOT TO SCALE **A1**

SIGN SUMMARY

IDENTIFICATION NUMBER	SIZE OF SIGN WIDTH	SIZE OF SIGN HEIGHT	TEXT	BACKROUND	LETTERING	No. OF SIGNS REQUIRED
R1-1	30"	30"	STOP	RED	WHITE	2
R4-7a	24"	30"	KEEP RIGHT	WHITE	BLACK	1
R7-8	12"	18"	HANDICAPPED ONLY	WHITE	GREEN	6
R7-8B	6"	12"	VAN ACCESSIBLE	WHITE	GREEN	2
K-2840	18"	24"	LOADING DOCK	WHITE	GREEN	1
K-1603	18"	24"	PARKING	WHITE	BLACK	1
CUSTOM	12"	18"	NO SNOW STORAGE THIS SIDE	WHITE	GREEN	9
K2-0782-L	12"	18"	ALL TRUCKS	WHITE	BLACK	1
K2-0782	12"	18"	ALL TRUCKS	WHITE	BLACK	1
K-4209	12"	18"	EMERGENCY AND AUTHORIZED VEHICLES ONLY	WHITE	BLACK	2
X-R5-1	30"	30"	DO NOT ENTER	RED	WHITE	2

GENERAL NOTE

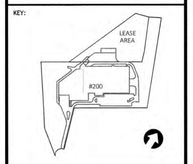
THE SNOW STORAGE LIMITS SHOWN CONFORM TO THE MASSACHUSETTS DEP BUREAU OF WATER RESOURCES SNOW DISPOSAL GUIDANCE ISSUED 12/11/2020.

60 0 30 60 120 240
GRAPHIC SCALE 1 inch = 60 ft.

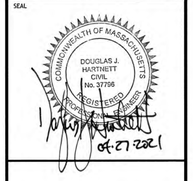
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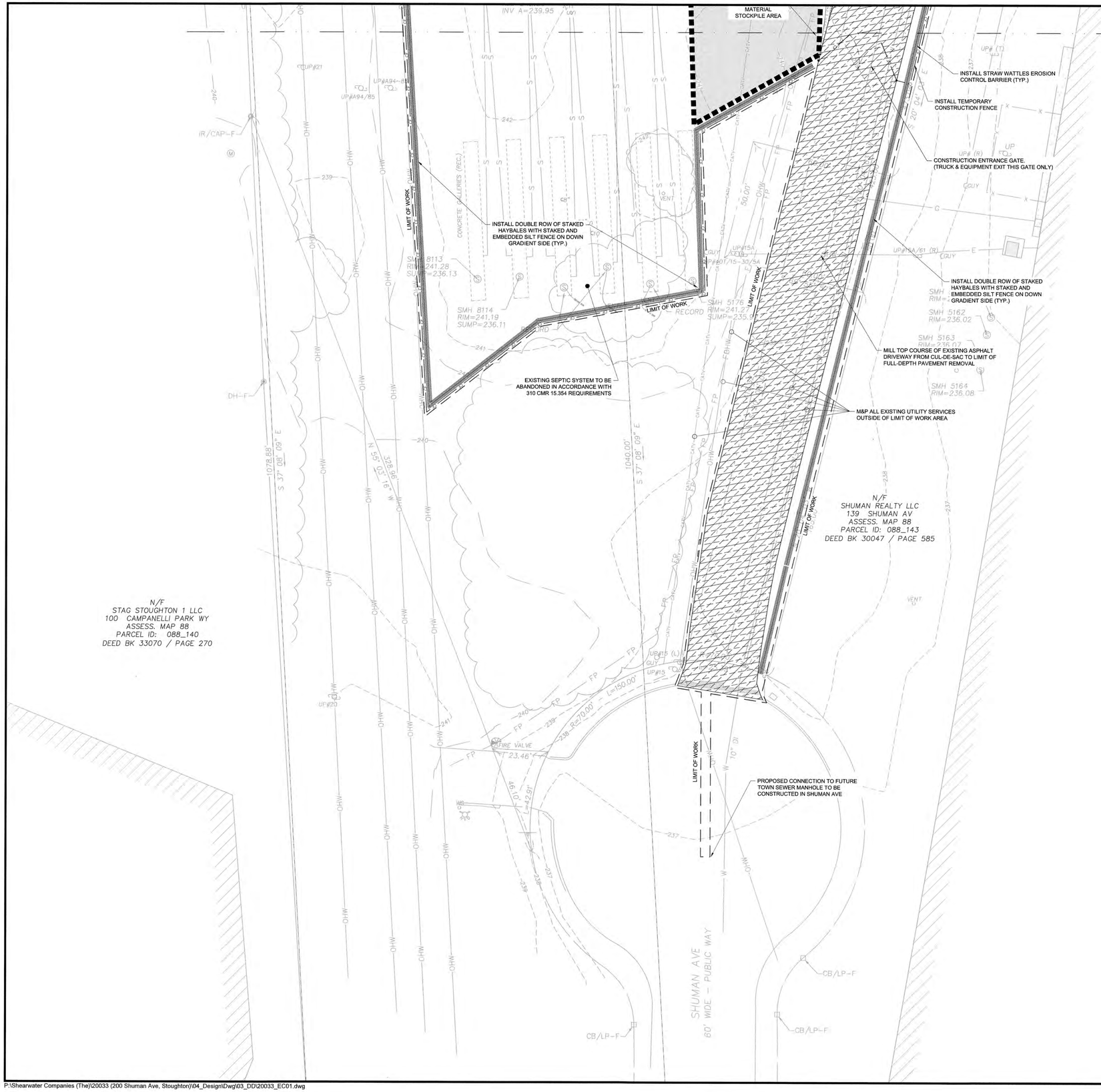
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SHEET TITLE:

SNOW MANAGEMENT & SIGNAGE PLAN

SHEET NUMBER: C101

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MATCHLINE C201

SITE PREPARATION, DEMOLITION AND EROSION CONTROL NOTES

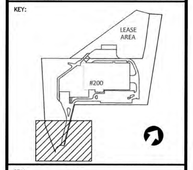
1. DISTURBANCE OF SOIL SURFACES IS REGULATED BY STATE LAW. ALL WORK SHALL COMPLY WITH THE CRITERIA OUTLINED TO PREVENT OR MINIMIZE SOIL EROSION.
2. DISTURBANCE OF BORDERING LAND SUBJECT TO FLOODING, WETLAND BUFFER ZONES, AND RIVERFRONT AREA IS SUBJECT TO REVIEW AND APPROVAL BY THE STOUGHTON CONSERVATION COMMISSION. IT IS THE INTENT OF THIS PLAN TO COMPLY WITH THE WETLANDS PROTECTION ACT, AS AMENDED.
3. CONTRACTOR SHALL NOTIFY DIG-SAFE AT 8-1-1 AT LEAST 72 HOURS PRIOR TO ANY DEMOLITION OR CONSTRUCTION ACTIVITY. CONTRACTOR SHALL NOTIFY DESIGN ENGINEER IN WRITING OF ANY AND ALL DISCREPANCIES BETWEEN THESE PLANS AND OBSERVED EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ROADS, DRIVEWAYS, AND PARKING AREAS; CONTROLLING DUST; AND TAKING ALL NECESSARY MEASURES TO ENSURE THAT ALL PAVED AREAS ADJACENT TO THE WORK SITE ARE MAINTAINED IN A CLEAN, SEDIMENT- AND DUST-FREE CONDITION AT ALL TIMES.
5. TOPSOIL AND OVEREXCAVATION SPOILS SHALL EITHER BE HAULED OFF SITE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL GUIDELINES OR STOCKPILED ON SITE. ANY STOCKPILED EXCAVATION MATERIALS LEFT ON SITE FOR MORE THAN 24 HOURS SHALL BE PROTECTED WITH FILTER SOCK BARRIERS AND SHALL BE COVERED WITH A SPREAD HAY MULCH AND WOVEN NETTING OR EROSION CONTROL MATTING WHEN LEFT EXPOSED. ANY SUCH STOCKPILE AREAS SHALL BE PLACED IN AN UPLAND LOCATION AT LEAST 100 FEET FROM ALL WETLAND RESOURCE AREAS AND WATER BODIES AND COMPLETELY REMOVED PRIOR TO PROJECT CLOSE-OUT. CONTRACTOR SHALL COORDINATE WITH OWNER OR OWNER'S REPRESENTATIVE REGARDING STOCKPILE AREA LOCATIONS.
6. STRAW WATTLE BARRIERS SHALL BE INSTALLED AT THE PROPOSED DOWN GRADIENT TOES OF SLOPES AT ALL LOCATIONS WHERE EARTHWORK IS PROPOSED.
7. EROSION CONTROL MATTING SHALL BE MIRAFI "MIRAMAT TM8" GEOSYNTHETIC EROSION CONTROL MAT OR APPROVED EQUAL. CONTRACTOR SHALL ADHERE TO MANUFACTURER SPECIFICATIONS FOR PLACEMENT AND INSTALLATION.
8. FILTER FABRIC SHALL BE "MIRAFI 140 N," PHILLIPS "SUPAC S-P" OR APPROVED EQUAL. CONTRACTOR SHALL ADHERE TO MANUFACTURER SPECIFICATIONS FOR PLACEMENT AND INSTALLATION.
9. ASPHALT PAVEMENT AND CONCRETE SIDEWALKS TO BE DEMOLISHED SHALL BE REMOVED TO FULL DEPTH OF GRAVEL BASE UNLESS OTHERWISE INDICATED HEREON.
10. ALL CURBS TO BE DEMOLISHED SHALL BE REMOVED TO FULL DEPTH OF GRAVEL BASE.
11. CONTRACTOR SHALL COORDINATE HAULING DEMOLISHED MATERIAL OFF SITE. REMOVAL OF EXCAVATED MATERIALS FROM SITE SHALL BE CONDUCTED IN ACCORDANCE WITH MASSDOT-HIGHWAY DIVISION "STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES" LATEST EDITION.
12. TRENCHING LIMITS FOR NEW DRAINAGE AND UTILITY INSTALLATIONS NOT SHOWN HEREON. REFER TO SITE GRADING AND DRAINAGE PLAN (SHEETS C400-C405), SITE UTILITY PLAN (SHEETS C500-505) AND SITE DETAILS (SHEET C600-C605) FOR DRAINAGE/UTILITY LAYOUT AND TRENCHING DETAILS.
13. SILTSACK INLET PROTECTION DEVICES SHALL BE INSTALLED AT ALL LOCATIONS INDICATED HEREON PRIOR TO CONSTRUCTION AND SHALL REMAIN IN PLACE FOR DURATION OF CONSTRUCTION ACTIVITIES, OR UNTIL REMOVAL OF EXISTING STRUCTURES TO ACCOMMODATE NEW CONSTRUCTION, WHERE APPLICABLE.
14. ALL DEMOLITION AND SITE PREPARATION ACTIVITIES SHALL BE CONDUCTED IN ACCORDANCE WITH STOUGHTON DEPARTMENT OF PUBLIC WORKS STANDARDS AND SPECIFICATIONS. CONTRACTOR SHALL COORDINATE ALL NECESSARY INSPECTIONS WITH THE STOUGHTON BUILDING .
15. ALL ACTIVITIES ASSOCIATED WITH REMOVAL OF EXISTING WATER SERVICE LATERALS ARE SUBJECT TO REVIEW AND APPROVAL BY THE STOUGHTON WATER DEPARTMENT.
16. THE EROSION CONTROL MEASURES SHOWN AND DESCRIBED HEREON SHALL BE CONSIDERED MINIMUM STANDARDS.
17. CONTRACTOR SHALL KEEP ON SITE, AT ALL TIMES, ADDITIONAL FILTER SOCK, CONSTRUCTION FENCE, AND SILTSACK MATERIALS FOR EMERGENCY INSTALLATION OR FOR INSTALLATION AT THE DIRECTION OF THE OWNER, THE ENGINEER, OR THE TOWN OF STOUGHTON REPRESENTATIVE.
18. CONTRACTOR SHALL INSPECT AND REPAIR EROSION AND SEDIMENT CONTROL DEVICES AT THE END OF EACH WORKING DAY AND WITHIN 24 HOURS OF EACH RAINFALL EVENT.
19. CONSTRUCTION DEWATERING OPERATIONS SHALL COMPRISE ACCUMULATION OF WATER INTO LOCAL PITS AND PUMPING INTO SEDIMENTATION TANKS, WITH DISCHARGE THROUGH CHARCOAL AND BAG FILTERS. TANKS SHALL BE CLEANED OUT AND FILTER BAGS SHALL BE REPLACED PERIODICALLY TO ENSURE SEDIMENT REMOVAL EFFICIENCY.
20. PAVED SURFACES SHALL REMAIN IN PLACE AS LONG AS POSSIBLE TO PREVENT SOILS FROM MIGRATING OFF THE SITE. CONTRACTOR TO COORDINATE.
21. CONSTRUCTION FENCE SHALL BE STAKED ORANGE VINYL SNOW FENCE OR APPROVED EQUAL AND SHALL REMAIN FOR DURATION OF CONSTRUCTION.
22. REFER TO SITE UTILITY PLANS (C500-C504) FOR ADDITIONAL DETAIL REGARDING DEMOLITION/RELOCATION OF ELECTRICAL AND LOW-VOLTAGE TELECOMMUNICATIONS UTILITY INFRASTRUCTURE.
23. THE CONTRACTOR SHALL REMOVE LITTER AND DEBRIS FROM THE EXISTING DRAINAGE CHANNELS BY HAND. UNDER NO CIRCUMSTANCES SHALL EQUIPMENT ENTER THE EXISTING DRAINAGE CHANNELS.

SYMBOL LEGEND	
R&D	REMOVE AND DISPOSE
M&P	MAINTAIN AND PROTECT
	MILL TOP COURSE OF EXISTING PAVEMENT
	DEMOLISH AND REMOVE PAVEMENT TO FULL BASE DEPTH
	DEMOLISH AND REMOVE ALL SURFACE, SUBSURFACE IMPROVEMENTS
	DEMOLISH AND REMOVE SIDEWALK TO FULL BASE DEPTH
	REMOVE TOPSOIL AND ALL VEGETATION AND SURFACE FEATURES; OVER-EXCAVATE AS NECESSARY
	STABILIZED CONSTRUCTION ENTRANCE
	LIMIT OF EXISTING TREE REMOVAL
	DEMOLISH AND REMOVE CURB OR BERM
×	DEMOLISH AND REMOVE SURFACE FEATURE
⊗	PROPOSED SILTSACK INLET PROTECTION DEVICE
	PROPOSED STRAW WATTLE EROSION CONTROL BARRIER
—//—//—	CONSTRUCTION FENCE
—x—	UTILITY SERVICES TO BE REMOVED AND DISPOSED

20 0 10 20 40 80
GRAPHIC SCALE 1 inch = 20 ft.

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KEY:



SEAL



PROPOSED BUILDING EXPANSION

200 SHUMAN AVENUE

STOUGHTON, MASSACHUSETTS 02072

OWNER/APPLICANT: TSC SHUMAN 200 LLC

REV	DATE	DESCRIPTION
3	4/27/2021	FINAL APPROVAL PLANS
2	3/25/2021	NO CHANGE
1	3/15/2021	REVISED PER TOWN COMMENTS

ISSUE TYPE: LOCAL APPROVAL

ISSUE DATE: FEBRUARY 10, 2021

PROJECT NUMBER: 20033

DRAWN BY: CM

CHECKED BY: JA

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SHEET TITLE:

SITE PREPARATION & EROSION CONTROL PLAN

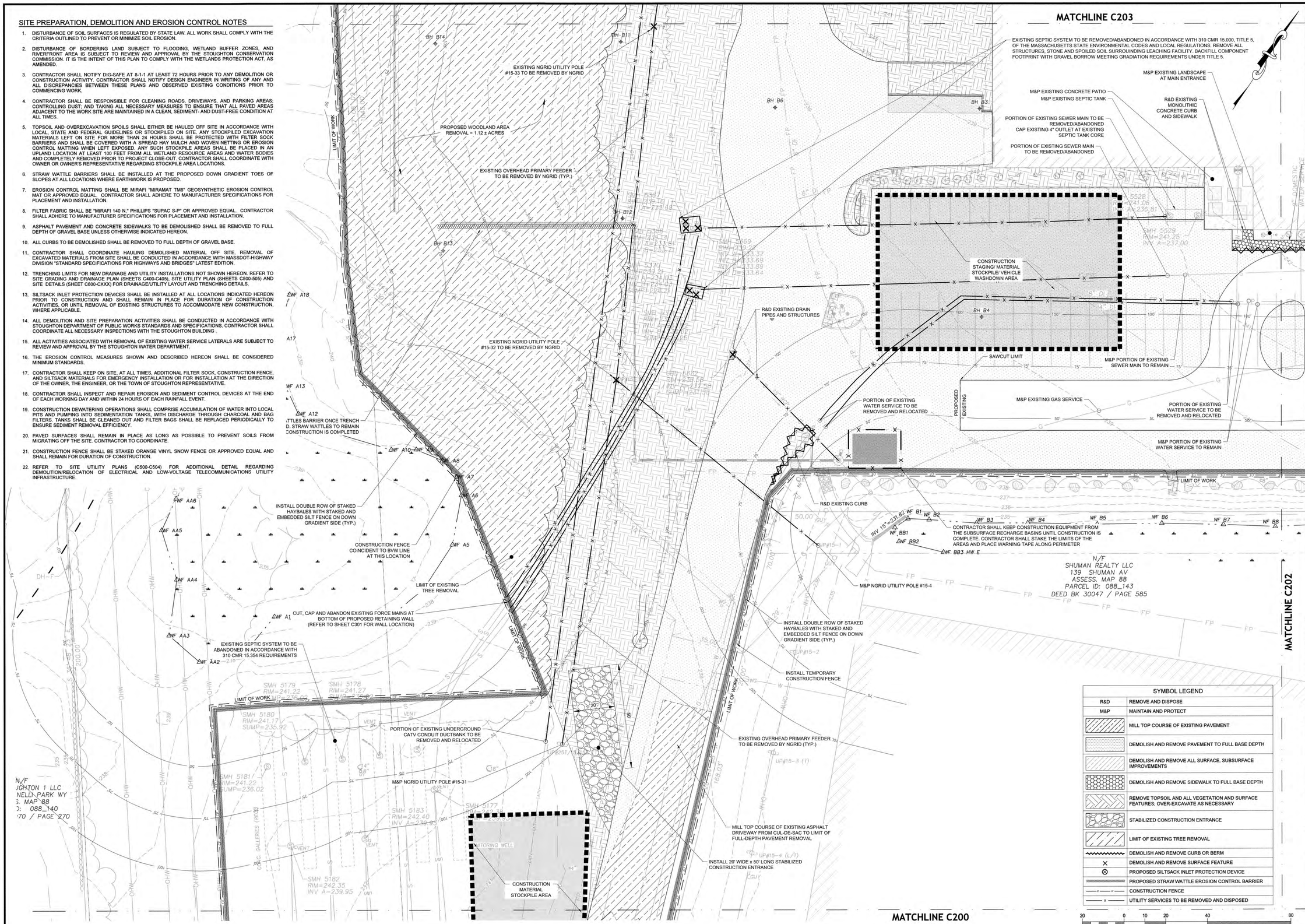
SHEET NUMBER:

C200

P:\Shearwater Companies (The)\20033 (200 Shuman Ave, Stoughton)\04_Design\Dwg\03_DD\20033_EC01.dwg

SITE PREPARATION, DEMOLITION AND EROSION CONTROL NOTES

1. DISTURBANCE OF SOIL SURFACES IS REGULATED BY STATE LAW. ALL WORK SHALL COMPLY WITH THE CRITERIA OUTLINED TO PREVENT OR MINIMIZE SOIL EROSION.
2. DISTURBANCE OF BORDERING LAND SUBJECT TO FLOODING, WETLAND BUFFER ZONES, AND RIVERFRONT AREA IS SUBJECT TO REVIEW AND APPROVAL BY THE STOUGHTON CONSERVATION COMMISSION. IT IS THE INTENT OF THIS PLAN TO COMPLY WITH THE WETLANDS PROTECTION ACT, AS AMENDED.
3. CONTRACTOR SHALL NOTIFY DIG-SAFE AT 8-1-1 AT LEAST 72 HOURS PRIOR TO ANY DEMOLITION OR CONSTRUCTION ACTIVITY. CONTRACTOR SHALL NOTIFY DESIGN ENGINEER IN WRITING OF ANY AND ALL DISCREPANCIES BETWEEN THESE PLANS AND OBSERVED EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ROADS, DRIVEWAYS, AND PARKING AREAS; CONTROLLING DUST; AND TAKING ALL NECESSARY MEASURES TO ENSURE THAT ALL PAVED AREAS ADJACENT TO THE WORK SITE ARE MAINTAINED IN A CLEAN, SEDIMENT- AND DUST-FREE CONDITION AT ALL TIMES.
5. TOPSOIL AND OVEREXCAVATION SPOILS SHALL EITHER BE HAULED OFF SITE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL GUIDELINES OR STOCKPILED ON SITE. ANY STOCKPILED EXCAVATION MATERIALS LEFT ON SITE FOR MORE THAN 24 HOURS SHALL BE PROTECTED WITH FILTER SOCK BARRIERS AND SHALL BE COVERED WITH A SPREAD HAY MULCH AND WOVEN NETTING OR EROSION CONTROL MATTING WHEN LEFT EXPOSED. ANY SUCH STOCKPILE AREAS SHALL BE PLACED IN AN UPLAND LOCATION AT LEAST 100 FEET FROM ALL WETLAND RESOURCE AREAS AND WATER BODIES AND COMPLETELY REMOVED PRIOR TO PROJECT CLOSE-OUT. CONTRACTOR SHALL COORDINATE WITH OWNER OR OWNER'S REPRESENTATIVE REGARDING STOCKPILE AREA LOCATIONS.
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WWW.SHEARWATERCOMPANIES.COM

KEY:



SEAL



PROPOSED BUILDING EXPANSION

200 SHUMAN AVENUE

STOUGHTON, MASSACHUSETTS 02072

OWNER/APPLICANT: TSC SHUMAN 200 LLC

REV	DATE	DESCRIPTION
3	4/27/2021	FINAL APPROVAL PLANS
2	3/25/2021	NO CHANGE
1	3/15/2021	REVISED PER TOWN COMMENTS

ISSUE TYPE: LOCAL APPROVAL

ISSUE DATE: FEBRUARY 10, 2021

PROJECT NUMBER: 20033

DRAWN BY: CM

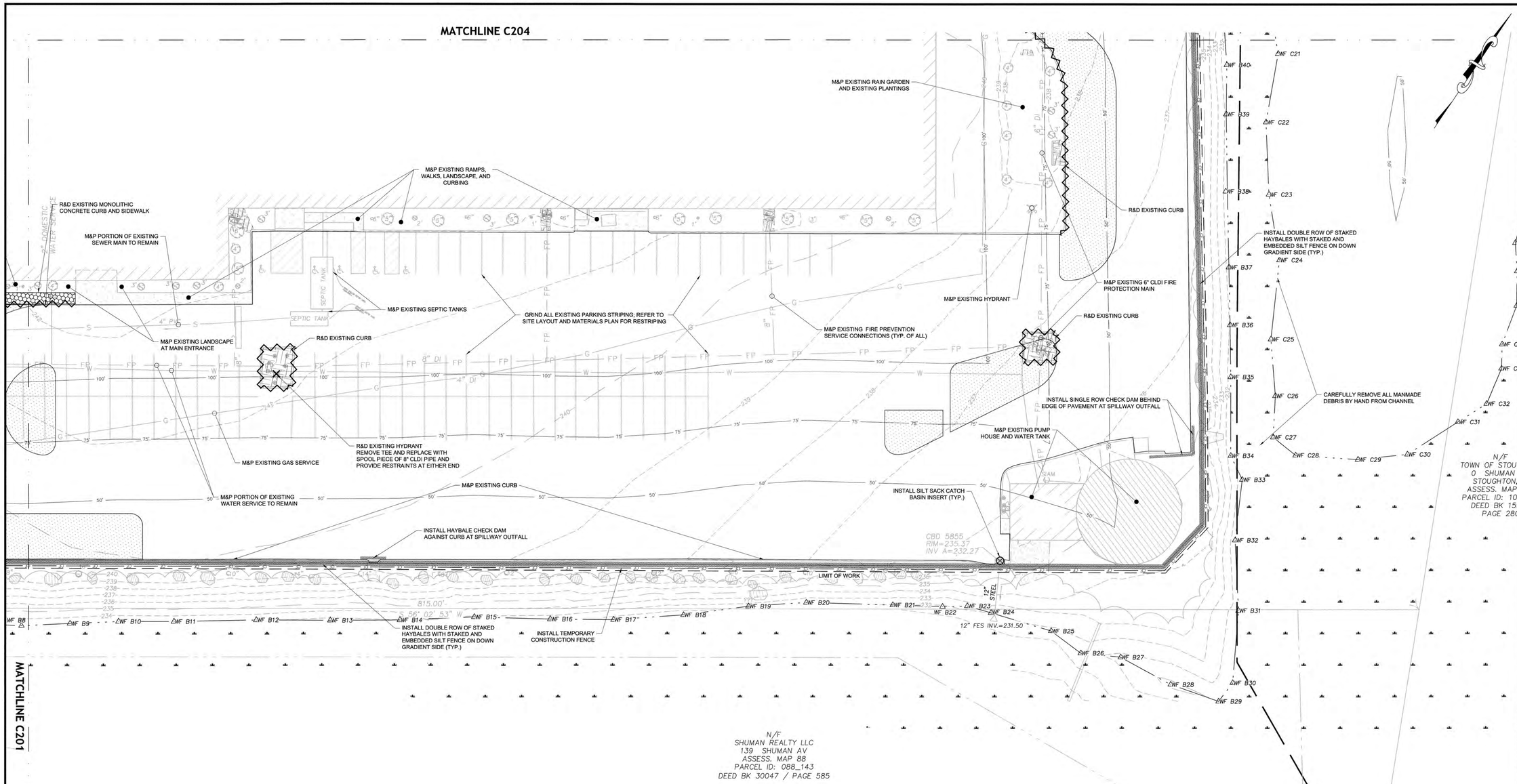
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SHEET TITLE: SITE PREPARATION & EROSION CONTROL PLAN

SHEET NUMBER: C201

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SITE PREPARATION, DEMOLITION AND EROSION CONTROL NOTES

1. DISTURBANCE OF SOIL SURFACES IS REGULATED BY STATE LAW. ALL WORK SHALL COMPLY WITH THE CRITERIA OUTLINED TO PREVENT OR MINIMIZE SOIL EROSION.
2. DISTURBANCE OF BORDERING LAND SUBJECT TO FLOODING, WETLAND BUFFER ZONES, AND RIVERFRONT AREA IS SUBJECT TO REVIEW AND APPROVAL BY THE STOUGHTON CONSERVATION COMMISSION. IT IS THE INTENT OF THIS PLAN TO COMPLY WITH THE WETLANDS PROTECTION ACT, AS AMENDED.
3. CONTRACTOR SHALL NOTIFY DIG-SAFE AT 8-1-1 AT LEAST 72 HOURS PRIOR TO ANY DEMOLITION OR CONSTRUCTION ACTIVITY. CONTRACTOR SHALL NOTIFY DESIGN ENGINEER IN WRITING OF ANY AND ALL DISCREPANCIES BETWEEN THESE PLANS AND OBSERVED EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ROADS, DRIVEWAYS, AND PARKING AREAS; CONTROLLING DUST; AND TAKING ALL NECESSARY MEASURES TO ENSURE THAT ALL PAVED AREAS ADJACENT TO THE WORK SITE ARE MAINTAINED IN A CLEAN, SEDIMENT- AND DUST-FREE CONDITION AT ALL TIMES.
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11. CONTRACTOR SHALL COORDINATE HAULING DEMOLISHED MATERIAL OFF SITE. REMOVAL OF EXCAVATED MATERIALS FROM SITE SHALL BE CONDUCTED IN ACCORDANCE WITH MASSDOT-HIGHWAY DIVISION "STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES" LATEST EDITION.
12. TRENCHING LIMITS FOR NEW DRAINAGE AND UTILITY INSTALLATIONS NOT SHOWN HEREON. REFER TO SITE GRADING AND DRAINAGE PLAN (SHEETS C400-C405), SITE UTILITY PLAN (SHEETS C500-505) AND SITE DETAILS (SHEET C600-CXXX) FOR DRAINAGE/UTILITY LAYOUT AND TRENCHING DETAILS.
13. SILTSACK INLET PROTECTION DEVICES SHALL BE INSTALLED AT ALL LOCATIONS INDICATED HEREON PRIOR TO CONSTRUCTION AND SHALL REMAIN IN PLACE FOR DURATION OF CONSTRUCTION ACTIVITIES, OR UNTIL REMOVAL OF EXISTING STRUCTURES TO ACCOMMODATE NEW CONSTRUCTION, WHERE APPLICABLE.
14. ALL DEMOLITION AND SITE PREPARATION ACTIVITIES SHALL BE CONDUCTED IN ACCORDANCE WITH STOUGHTON DEPARTMENT OF PUBLIC WORKS STANDARDS AND SPECIFICATIONS. CONTRACTOR SHALL COORDINATE ALL NECESSARY INSPECTIONS WITH THE STOUGHTON BUILDING .
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22. REFER TO SITE UTILITY PLANS (C500-C504) FOR ADDITIONAL DETAIL REGARDING DEMOLITION/RELOCATION OF ELECTRICAL AND LOW-VOLTAGE TELECOMMUNICATIONS UTILITY INFRASTRUCTURE.

SYMBOL LEGEND	
R&D	REMOVE AND DISPOSE
M&P	MAINTAIN AND PROTECT
	DEMOLISH AND REMOVE PAVEMENT TO FULL BASE DEPTH
	DEMOLISH AND REMOVE ALL SURFACE, SUBSURFACE IMPROVEMENTS
	DEMOLISH AND REMOVE SIDEWALK TO FULL BASE DEPTH
	REMOVE TOPSOIL AND ALL VEGETATION AND SURFACE FEATURES; OVER-EXCAVATE AS NECESSARY
	STABILIZED CONSTRUCTION ENTRANCE
	LIMIT OF EXISTING TREE REMOVAL
	DEMOLISH AND REMOVE CURB OR BERM
X	DEMOLISH AND REMOVE SURFACE FEATURE
⊗	PROPOSED SILTSACK INLET PROTECTION DEVICE
	PROPOSED STRAW WATTLE EROSION CONTROL BARRIER
—tf—tf—	CONSTRUCTION FENCE
—x—x—	UTILITY SERVICES TO BE REMOVED AND DISPOSED

GRAPHIC SCALE 20 0 10 20 40 80 — 1 inch = 20 ft.

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WWW.SHEARWATERCOMPANIES.COM

KEY:

SEAL

COMMONWEALTH OF MASSACHUSETTS
DOUGLAS J. HARTNETT
CIVIL
No. 37796
REGISTERED PROFESSIONAL ENGINEER
04-27-2021

PROPOSED BUILDING EXPANSION

200 SHUMAN AVENUE
STOUGHTON, MASSACHUSETTS 02072
OWNER/APPLICANT: TSC SHUMAN 200 LLC

REV	DATE	DESCRIPTION
3	4/27/2021	FINAL APPROVAL PLANS
2	3/25/2021	NO CHANGE
1	3/15/2021	REVISED PER TOWN COMMENTS

ISSUE TYPE: LOCAL APPROVAL
ISSUE DATE: FEBRUARY 10, 2021
PROJECT NUMBER: 20033
DRAWN BY: CM
CHECKED BY: JA

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SHEET TITLE: SITE PREPARATION & EROSION CONTROL PLAN

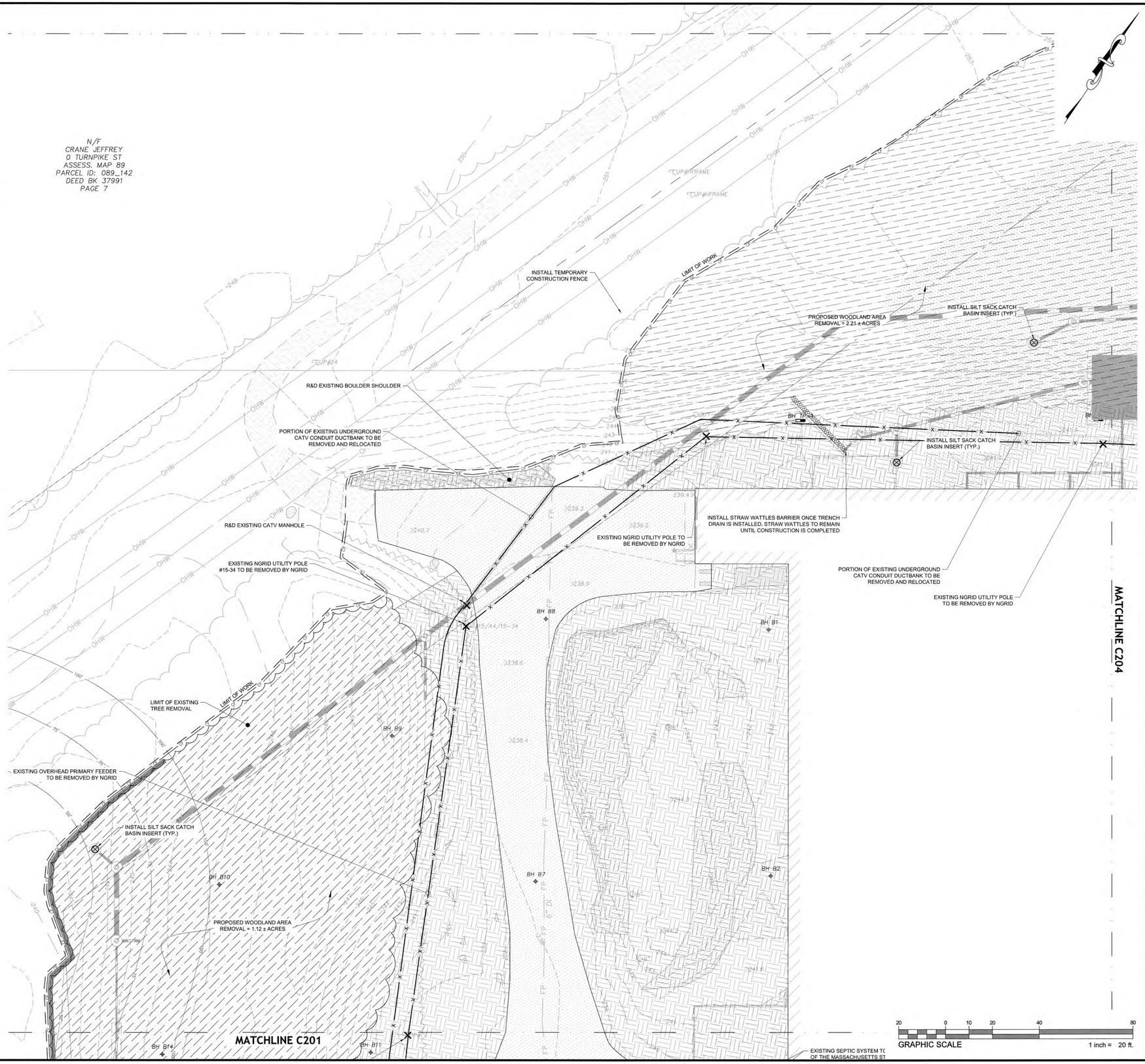
SHEET NUMBER: C202

P:\Shearwater Companies (The)\20033 (200 Shuman Ave, Stoughton)\04_Design\Dwg\03_DD\20033_EC01.dwg

SITE PREPARATION, DEMOLITION AND EROSION CONTROL NOTES

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19. CONSTRUCTION DEWATERING OPERATIONS SHALL COMPRISE ACCUMULATION OF WATER INTO LOCAL PITS AND PUMPING INTO SEDIMENTATION TANKS, WITH DISCHARGE THROUGH CHARCOAL AND BAG FILTERS. TANKS SHALL BE CLEANED OUT AND FILTER BAGS SHALL BE REPLACED PERIODICALLY TO ENSURE SEDIMENT REMOVAL EFFICIENCY.
20. PAVED SURFACES SHALL REMAIN IN PLACE AS LONG AS POSSIBLE TO PREVENT SOILS FROM MIGRATING OFF THE SITE. CONTRACTOR TO COORDINATE.
21. CONSTRUCTION FENCE SHALL BE STAKED ORANGE VINYL SNOW FENCE OR APPROVED EQUAL AND SHALL REMAIN FOR DURATION OF CONSTRUCTION.
22. REFER TO SITE UTILITY PLANS (C500-C504) FOR ADDITIONAL DETAIL REGARDING DEMOLITION/RELOCATION OF ELECTRICAL AND LOW-VOLTAGE TELECOMMUNICATIONS UTILITY INFRASTRUCTURE.

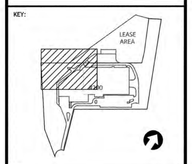
SYMBOL LEGEND	
R&D	REMOVE AND DISPOSE
M&P	MAINTAIN AND PROTECT
	DEMOLISH AND REMOVE PAVEMENT TO FULL BASE DEPTH
	DEMOLISH AND REMOVE ALL SURFACE, SUBSURFACE IMPROVEMENTS
	DEMOLISH AND REMOVE SIDEWALK TO FULL BASE DEPTH
	REMOVE TOPSOIL AND ALL VEGETATION AND SURFACE FEATURES; OVER-EXCAVATE AS NECESSARY
	STABILIZED CONSTRUCTION ENTRANCE
	LIMIT OF EXISTING TREE REMOVAL
	DEMOLISH AND REMOVE CURB OR BERM
×	DEMOLISH AND REMOVE SURFACE FEATURE
⊗	PROPOSED SILTSACK INLET PROTECTION DEVICE
	PROPOSED STRAW WATTLE EROSION CONTROL BARRIER
— o — o —	CONSTRUCTION FENCE
— x —	UTILITY SERVICES TO BE REMOVED AND DISPOSED



HIGHPOINT ENGINEERING, INC.
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www.HighpointEng.com

CLIENT: THE SHEARWATER COMPANIES LLC
175 PARAMOUNT DRIVE
RAYNHAM, MA 02767
PHONE: (508) 386-9895
WWW.SHEARWATERCOMPANIES.COM

KEY:



SEAL



PROPOSED BUILDING EXPANSION
200 SHUMAN AVENUE
STOUGHTON, MASSACHUSETTS 02072
OWNER/APPLICANT: TSC SHUMAN 200 LLC

REV	DATE	DESCRIPTION
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2	3/25/2021	NO CHANGE
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ISSUE TYPE: LOCAL APPROVAL
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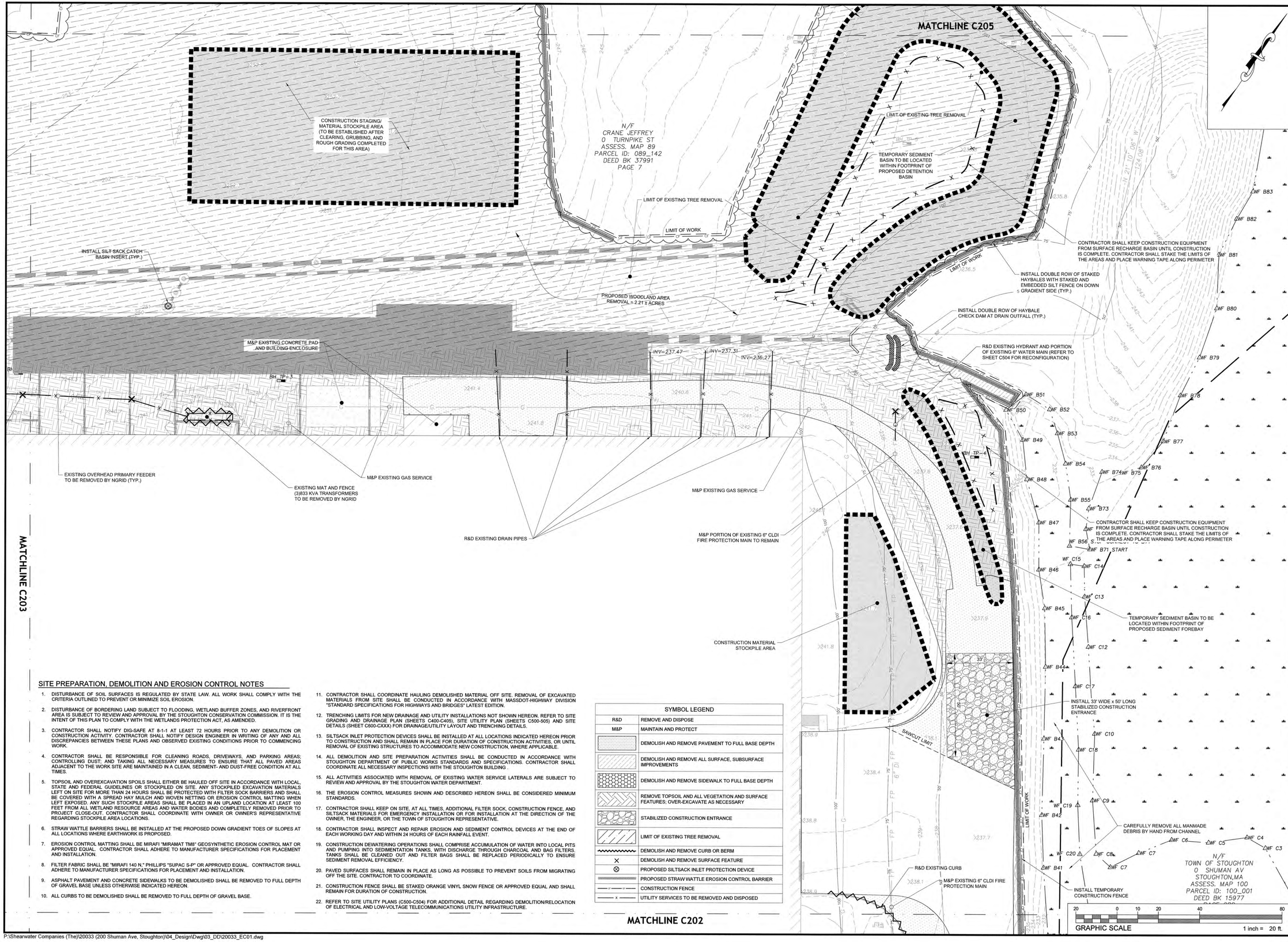
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SHEET TITLE:
SITE PREPARATION & EROSION CONTROL PLAN

SHEET NUMBER:
C203

P:\Shearwater Companies (The)\20033 (200 Shuman Ave, Stoughton)\04_Design\Dwg\03_DD\20033_EC01.dwg



SITE PREPARATION, DEMOLITION AND EROSION CONTROL NOTES

1. DISTURBANCE OF SOIL SURFACES IS REGULATED BY STATE LAW. ALL WORK SHALL COMPLY WITH THE CRITERIA OUTLINED TO PREVENT OR MINIMIZE SOIL EROSION.
2. DISTURBANCE OF BORDERING LAND SUBJECT TO FLOODING, WETLAND BUFFER ZONES, AND RIVERFRONT AREA IS SUBJECT TO REVIEW AND APPROVAL BY THE STOUGHTON CONSERVATION COMMISSION. IT IS THE INTENT OF THIS PLAN TO COMPLY WITH THE WETLANDS PROTECTION ACT, AS AMENDED.
3. CONTRACTOR SHALL NOTIFY DIG-SAFE AT 8-1-1 AT LEAST 72 HOURS PRIOR TO ANY DEMOLITION OR CONSTRUCTION ACTIVITY. CONTRACTOR SHALL NOTIFY DESIGN ENGINEER IN WRITING OF ANY AND ALL DISCREPANCIES BETWEEN THESE PLANS AND OBSERVED EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ROADS, DRIVEWAYS, AND PARKING AREAS; CONTROLLING DUST; AND TAKING ALL NECESSARY MEASURES TO ENSURE THAT ALL PAVED AREAS ADJACENT TO THE WORK SITE ARE MAINTAINED IN A CLEAN, SEDIMENT- AND DUST-FREE CONDITION AT ALL TIMES.
5. TOPSOIL AND OVEREXCAVATION SPOILS SHALL EITHER BE HAULED OFF SITE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL GUIDELINES OR STOCKPILED ON SITE. ANY STOCKPILED EXCAVATION MATERIALS LEFT ON SITE FOR MORE THAN 24 HOURS SHALL BE PROTECTED WITH FILTER SOCK BARRIERS AND SHALL BE COVERED WITH A SPREAD HAY MULCH AND WOVEN NETTING OR EROSION CONTROL MATTING WHEN LEFT EXPOSED. ANY SUCH STOCKPILE AREAS SHALL BE PLACED IN AN UPLAND LOCATION AT LEAST 100 FEET FROM ALL WETLAND RESOURCE AREAS AND WATER BODIES AND COMPLETELY REMOVED PRIOR TO PROJECT CLOSE-OUT. CONTRACTOR SHALL COORDINATE WITH OWNER OR OWNER'S REPRESENTATIVE REGARDING STOCKPILE AREA LOCATIONS.
6. STRAW WATTLE BARRIERS SHALL BE INSTALLED AT THE PROPOSED DOWN GRADIENT TOES OF SLOPES AT ALL LOCATIONS WHERE EARTHWORK IS PROPOSED.
7. EROSION CONTROL MATTING SHALL BE MIRAFI "MIRAMAT TM8" GEOSYNTHETIC EROSION CONTROL MAT OR APPROVED EQUAL. CONTRACTOR SHALL ADHERE TO MANUFACTURER SPECIFICATIONS FOR PLACEMENT AND INSTALLATION.
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9. ASPHALT PAVEMENT AND CONCRETE SIDEWALKS TO BE DEMOLISHED SHALL BE REMOVED TO FULL DEPTH OF GRAVEL BASE UNLESS OTHERWISE INDICATED HEREON.
10. ALL CURBS TO BE DEMOLISHED SHALL BE REMOVED TO FULL DEPTH OF GRAVEL BASE.
11. CONTRACTOR SHALL COORDINATE HAULING DEMOLISHED MATERIAL OFF SITE. REMOVAL OF EXCAVATED MATERIALS FROM SITE SHALL BE CONDUCTED IN ACCORDANCE WITH MASSDOT-HIGHWAY DIVISION "STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES" LATEST EDITION.
12. TRENCHING LIMITS FOR NEW DRAINAGE AND UTILITY INSTALLATIONS NOT SHOWN HEREON. REFER TO SITE GRADING AND DRAINAGE PLAN (SHEETS C400-C405), SITE UTILITY PLAN (SHEETS C500-505) AND SITE DETAILS (SHEET C600-CXXX) FOR DRAINAGE/UTILITY LAYOUT AND TRENCHING DETAILS.
13. SILTSACK INLET PROTECTION DEVICES SHALL BE INSTALLED AT ALL LOCATIONS INDICATED HEREON PRIOR TO CONSTRUCTION AND SHALL REMAIN IN PLACE FOR DURATION OF CONSTRUCTION ACTIVITIES, OR UNTIL REMOVAL OF EXISTING STRUCTURES TO ACCOMMODATE NEW CONSTRUCTION, WHERE APPLICABLE.
14. ALL DEMOLITION AND SITE PREPARATION ACTIVITIES SHALL BE CONDUCTED IN ACCORDANCE WITH STOUGHTON DEPARTMENT OF PUBLIC WORKS STANDARDS AND SPECIFICATIONS. CONTRACTOR SHALL COORDINATE ALL NECESSARY INSPECTIONS WITH THE STOUGHTON BUILDING .
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SYMBOL LEGEND	
R&D	REMOVE AND DISPOSE
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KEY:

SEAL

COMMONWEALTH OF MASSACHUSETTS
DOUGLAS J. HARTNETT
CIVIL
No. 37766
REGISTERED PROFESSIONAL ENGINEER
04/7/21

PROPOSED BUILDING EXPANSION
200 SHUMAN AVENUE
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OWNER/APPLICANT: TSC SHUMAN 200 LLC

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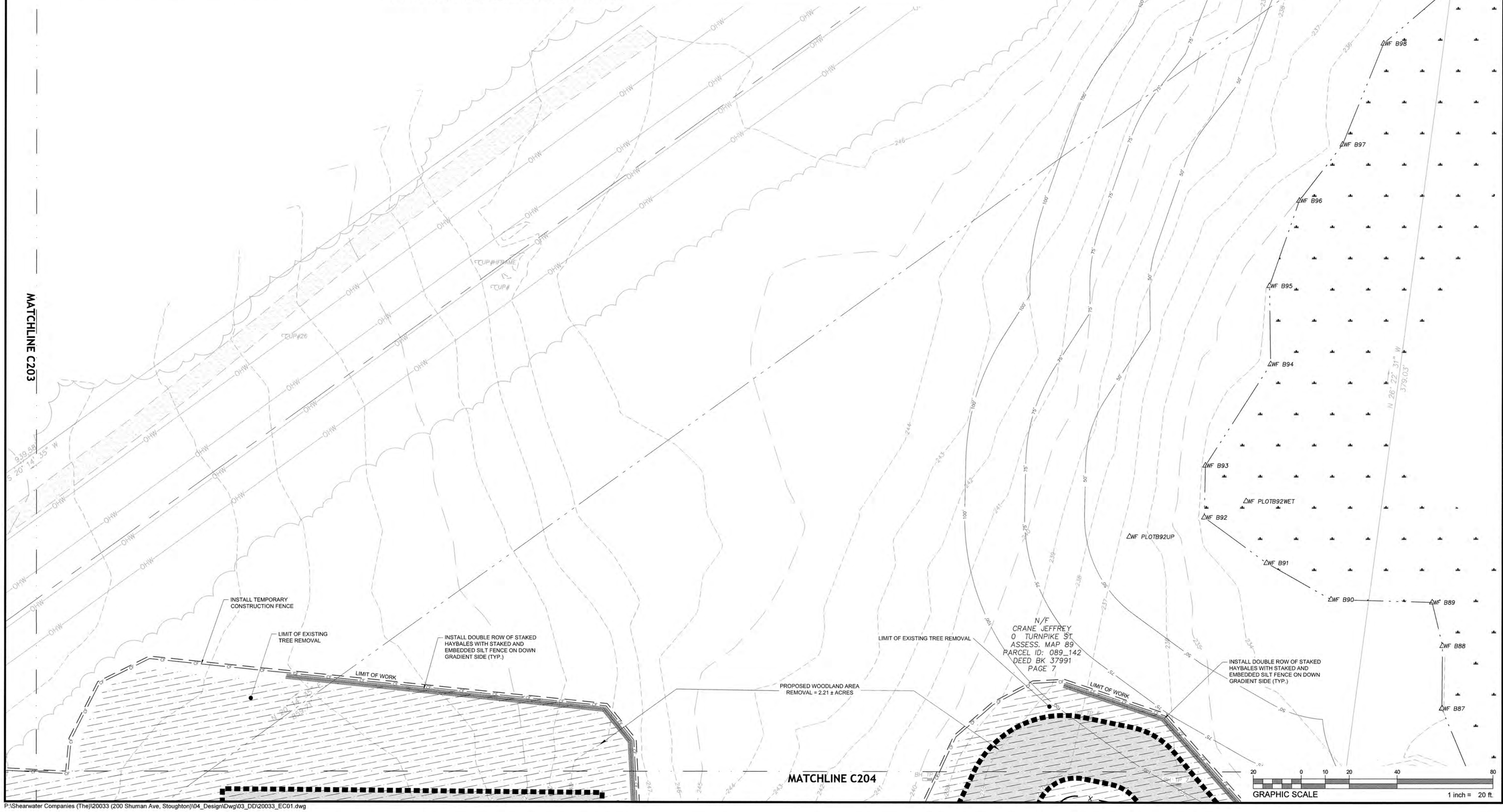
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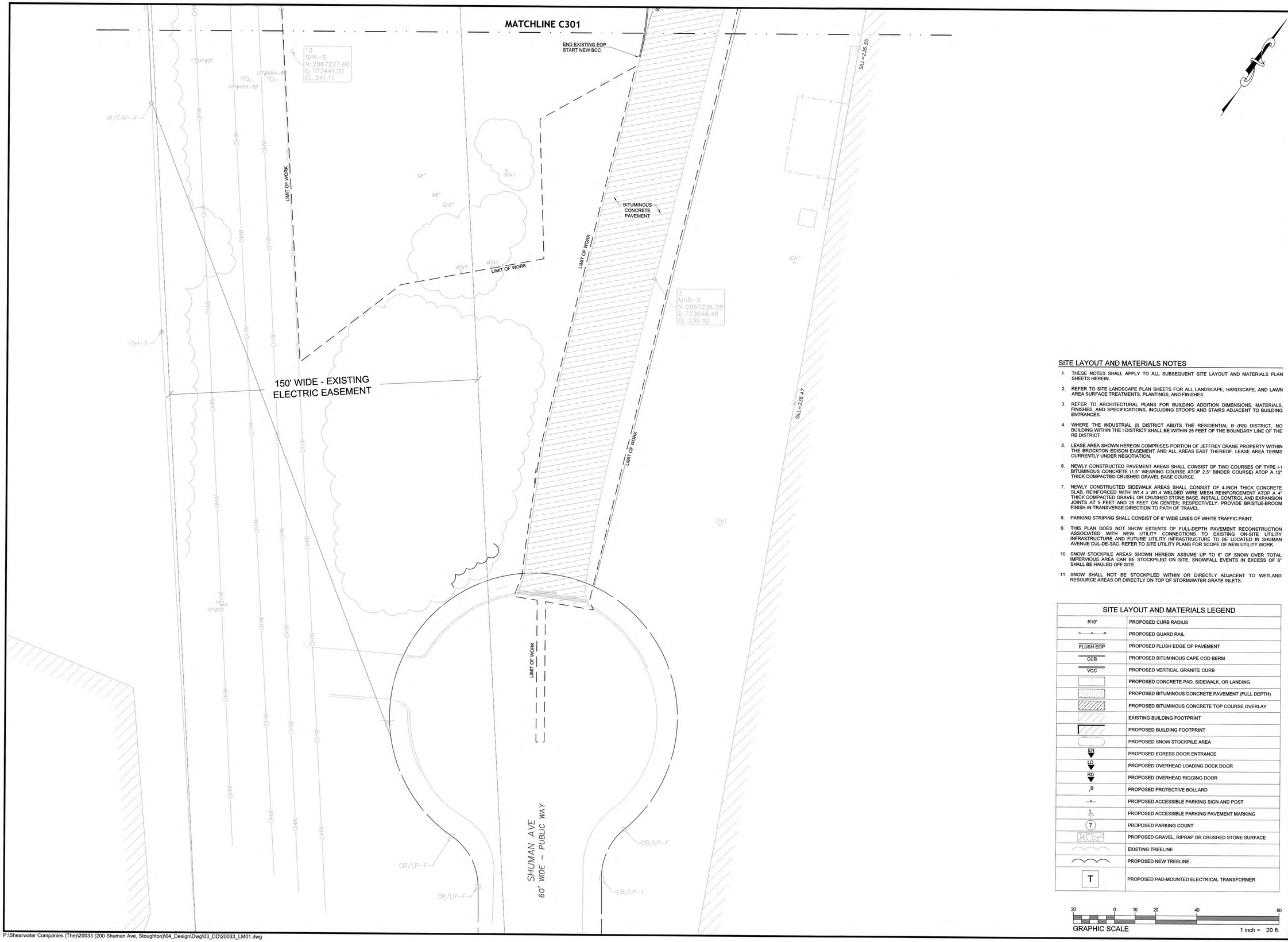
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SYMBOL LEGEND	
R&D	REMOVE AND DISPOSE
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	DEMOLISH AND REMOVE PAVEMENT TO FULL BASE DEPTH
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— sf — sf —	CONSTRUCTION FENCE
— x —	UTILITY SERVICES TO BE REMOVED AND DISPOSED





SITE LAYOUT AND MATERIALS NOTES

1. THESE NOTES SHALL APPLY TO ALL SUBSEQUENT SITE LAYOUT AND MATERIALS PLAN SHEETS HEREIN.
2. REFER TO SITE LANDSCAPE PLAN SHEETS FOR ALL LANDSCAPE, HARDSCAPE, AND LAWN AREA SURFACE TREATMENTS, PLANTINGS, AND FINISHES.
3. REFER TO ARCHITECTURAL PLANS FOR BUILDING ADDITION DIMENSIONS, MATERIALS, FINISHES, AND SPECIFICATIONS, INCLUDING STOOPS AND STAIRS ADJACENT TO BUILDING ENTRANCES.
4. WHERE THE INDUSTRIAL (I) DISTRICT ABUTS THE RESIDENTIAL B (RB) DISTRICT, NO BUILDING WITHIN THE I DISTRICT SHALL BE WITHIN 25 FEET OF THE BOUNDARY LINE OF THE RB DISTRICT.
5. LEASE AREA SHOWN HEREON COMPRISES PORTION OF JEFFREY CRANE PROPERTY WITHIN THE BROCKTON EDISON EASEMENT AND ALL AREAS EAST THEREOF. LEASE AREA TERMS CURRENTLY UNDER NEGOTIATION.
6. NEWLY CONSTRUCTED PAVEMENT AREAS SHALL CONSIST OF TWO COURSES OF TYPE I-1 BITUMINOUS CONCRETE (1.5" WEARING COURSE ATOP 2.5" BINDER COURSE) ATOP A 12" THICK COMPACTED CRUSHED GRAVEL BASE COURSE.
7. NEWLY CONSTRUCTED SIDEWALK AREAS SHALL CONSIST OF 4-INCH THICK CONCRETE SLAB, REINFORCED WITH W1.4 x W1.4 WELDED WIRE MESH REINFORCEMENT ATOP A 4" THICK COMPACTED GRAVEL OR CRUSHED STONE BASE. INSTALL CONTROL AND EXPANSION JOINTS AT 5 FEET AND 25 FEET ON CENTER, RESPECTIVELY. PROVIDE BRISTLE-BROOM FINISH IN TRANSVERSE DIRECTION TO PATH OF TRAVEL.
8. PARKING STRIPING SHALL CONSIST OF 6" WIDE LINES OF WHITE TRAFFIC PAINT.
9. THIS PLAN DOES NOT SHOW EXTENTS OF FULL-DEPTH PAVEMENT RECONSTRUCTION ASSOCIATED WITH NEW UTILITY CONNECTIONS TO EXISTING ON-SITE UTILITY INFRASTRUCTURE AND FUTURE UTILITY INFRASTRUCTURE TO BE LOCATED IN SHUMAN AVENUE CUL-DE-SAC. REFER TO SITE UTILITY PLANS FOR SCOPE OF NEW UTILITY WORK.
10. SNOW STOCKPILE AREAS SHOWN HEREON ASSUME UP TO 6" OF SNOW OVER TOTAL IMPERVIOUS AREA CAN BE STOCKPILED ON SITE. SNOWFALL EVENTS IN EXCESS OF 6" SHALL BE HAULED OFF SITE.
11. SNOW SHALL NOT BE STOCKPILED WITHIN OR DIRECTLY ADJACENT TO WETLAND RESOURCE AREAS OR DIRECTLY ON TOP OF STORMWATER GRATE INLETS.

SITE LAYOUT AND MATERIALS LEGEND

R10'	PROPOSED CURB RADIUS
	PROPOSED GUARD RAIL
FLUSH EOP	PROPOSED FLUSH EDGE OF PAVEMENT
CCB	PROPOSED BITUMINOUS CAPE COD BERM
VCC	PROPOSED VERTICAL GRANITE CURB
	PROPOSED CONCRETE PAD, SIDEWALK, OR LANDING
	PROPOSED BITUMINOUS CONCRETE PAVEMENT (FULL DEPTH)
	PROPOSED BITUMINOUS CONCRETE TOP COURSE OVERLAY
	EXISTING BUILDING FOOTPRINT
	PROPOSED BUILDING FOOTPRINT
	PROPOSED SNOW STOCKPILE AREA
EN	PROPOSED EGRESS DOOR ENTRANCE
LD	PROPOSED OVERHEAD LOADING DOCK DOOR
RD	PROPOSED OVERHEAD RIGGING DOOR
B	PROPOSED PROTECTIVE BOLLARD
	PROPOSED ACCESSIBLE PARKING SIGN AND POST
	PROPOSED ACCESSIBLE PARKING PAVEMENT MARKING
7	PROPOSED PARKING COUNT
	PROPOSED GRAVEL, RIPRAP OR CRUSHED STONE SURFACE
	EXISTING TREELINE
	PROPOSED NEW TREELINE
T	PROPOSED PAD-MOUNTED ELECTRICAL TRANSFORMER

20 0 10 20 40 80

GRAPHIC SCALE 1 inch = 20 ft.

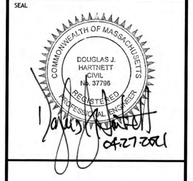
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KEY:



SEAL



PROPOSED BUILDING EXPANSION

200 SHUMAN AVENUE
STOUGHTON, MASSACHUSETTS 02072

OWNER/APPLICANT: TSC SHUMAN 200 LLC

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PROJECT NUMBER: 20033

DRAWN BY: CM

CHECKED BY: JA

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SHEET TITLE:

LAYOUT & MATERIALS PLAN

SHEET NUMBER:

C300

P:\Shearwater Companies (The)\20033 (200 Shuman Ave, Stoughton)\04_Design\Dwg\03_DD\20033_LM01.dwg

MATCHLINE C303

PROPOSED BUILDING EXPANSION
80,100± SF GFA

EXISTING BUILDING
158,000± SF GFA

(7) LOADING DOCK DOORS W/ LEVELERS

110' x 72' LOADING AREA (REINFORCED CONCRETE PAVEMENT)

14' x 14' RIGGING DOOR

14' WIDE RIGGING DOOR ENTRANCE (REINFORCED CONCRETE PAVEMENT)

PROPOSED CONCRETE PATIO AREA

6" PRECAST CONCRETE VERTICAL TO FLUSH TRANSITION CURB

END TRANSITION CURB START NEW CCB

VGC NEW TRANS-STONE

LANDSCAPE

1' WIDE SEGMENTAL BLOCK RETAINING WALL (KEYSTONE OR APPROVED EQUAL)

2' WIDE SEGMENTAL BLOCK RETAINING WALL (STONE STRONG OR APPROVED EQUAL) WITH TIMBER GUARD RAIL W/ METAL POSTS SET IN TOP

GRAVEL EMERGENCY ACCESS ROAD

LIMIT OF WORK

NEW TREELINE

FLUSH EOP

END BITUMINOUS CONCRETE PAVEMENT START GRAVEL EMERGENCY ACCESS ROAD

BITUMINOUS CONCRETE PAVEMENT

END NEW CCB START WALL

BITUMINOUS CONCRETE WALK

PROPOSED FLAGPOLE

BITUMINOUS CONCRETE PAVEMENT

10' WIDE CURB BREAK AND RIPRAP APRON AT FOCAL POINT ENTRANCE

EXISTING NEW SAWCUT

ACF FOCAL POINT BIOFILTRATION AREA SEE GRADING/DRAINAGE AND LANDSCAPE PLANS

END EXISTING BIT. CONC. PVMT START NEW BIT. CONC.PVMT

END NEW BCC START NEW WALL

END EXISTING TREELINE START NEW TREELINE

END EXISTING BCC START NEW CCB

END EXISTING EOP START NEW BCC

SAWCUT

MONITORING WELL

X-CUT EL: 239.94 BENCHMARK

MATCHLINE C302

MATCHLINE C300

REFERENCE NOTE

1. REFER TO SHEET C300 FOR SITE LAYOUT AND MATERIALS NOTES.

SITE LAYOUT AND MATERIALS LEGEND

R10'	PROPOSED CURB RADIUS
	PROPOSED GUARD RAIL
FLUSH EOP	PROPOSED FLUSH EDGE OF PAVEMENT
CCB	PROPOSED BITUMINOUS CAPE COD BERM
VCC	PROPOSED VERTICAL REINFORCED CONCRETE CURB
VGC	PROPOSED VERTICAL GRANITE CURB
	PROPOSED CONCRETE PAD, SIDEWALK, OR LANDING
	PROPOSED BITUMINOUS CONCRETE PAVEMENT (FULL DEPTH)
	PROPOSED BITUMINOUS CONCRETE TOP COURSE OVERLAY
	EXISTING BUILDING FOOTPRINT
	PROPOSED BUILDING FOOTPRINT
	PROPOSED SNOW STOCKPILE AREA
EN	PROPOSED EGRESS DOOR ENTRANCE
LD	PROPOSED OVERHEAD LOADING DOCK DOOR
RD	PROPOSED OVERHEAD RIGGING DOOR
B	PROPOSED PROTECTIVE BOLLARD
	PROPOSED ACCESSIBLE PARKING SIGN AND POST
	PROPOSED ACCESSIBLE PARKING PAVEMENT MARKING
7	PROPOSED PARKING COUNT
	PROPOSED GRAVEL, RIPRAP OR CRUSHED STONE SURFACE
	EXISTING TREELINE
	PROPOSED NEW TREELINE
T	PROPOSED PAD-MOUNTED ELECTRICAL TRANSFORMER

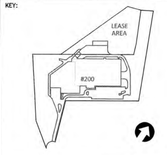
GRAPHIC SCALE 20 0 10 20 40 80 — 1 inch = 20 ft.

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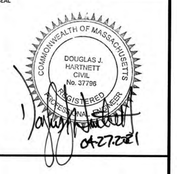
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45 DAN ROAD, SUITE 140
CANTON, MA 02021
www.HighpointEng.com

CLIENT: THE SHEARWATER COMPANIES LLC
175 PARAMOUNT DRIVE
RAYNHAM, MA 02767
PHONE: (508) 386-9895
WWW.SHEARWATERCOMPANIES.COM

KEY:



SEAL



PROPOSED BUILDING EXPANSION

200 SHUMAN AVENUE
STOUGHTON, MASSACHUSETTS 02072

OWNER/APPLICANT: TSC SHUMAN 200 LLC

REV	DATE	DESCRIPTION
3	4/27/2021	FINAL APPROVAL PLANS
2	3/25/2021	NO CHANGE
1	3/15/2021	REVISED PER TOWN COMMENTS

ISSUE TYPE: LOCAL APPROVAL
ISSUE DATE: FEBRUARY 10, 2021
PROJECT NUMBER: 20033

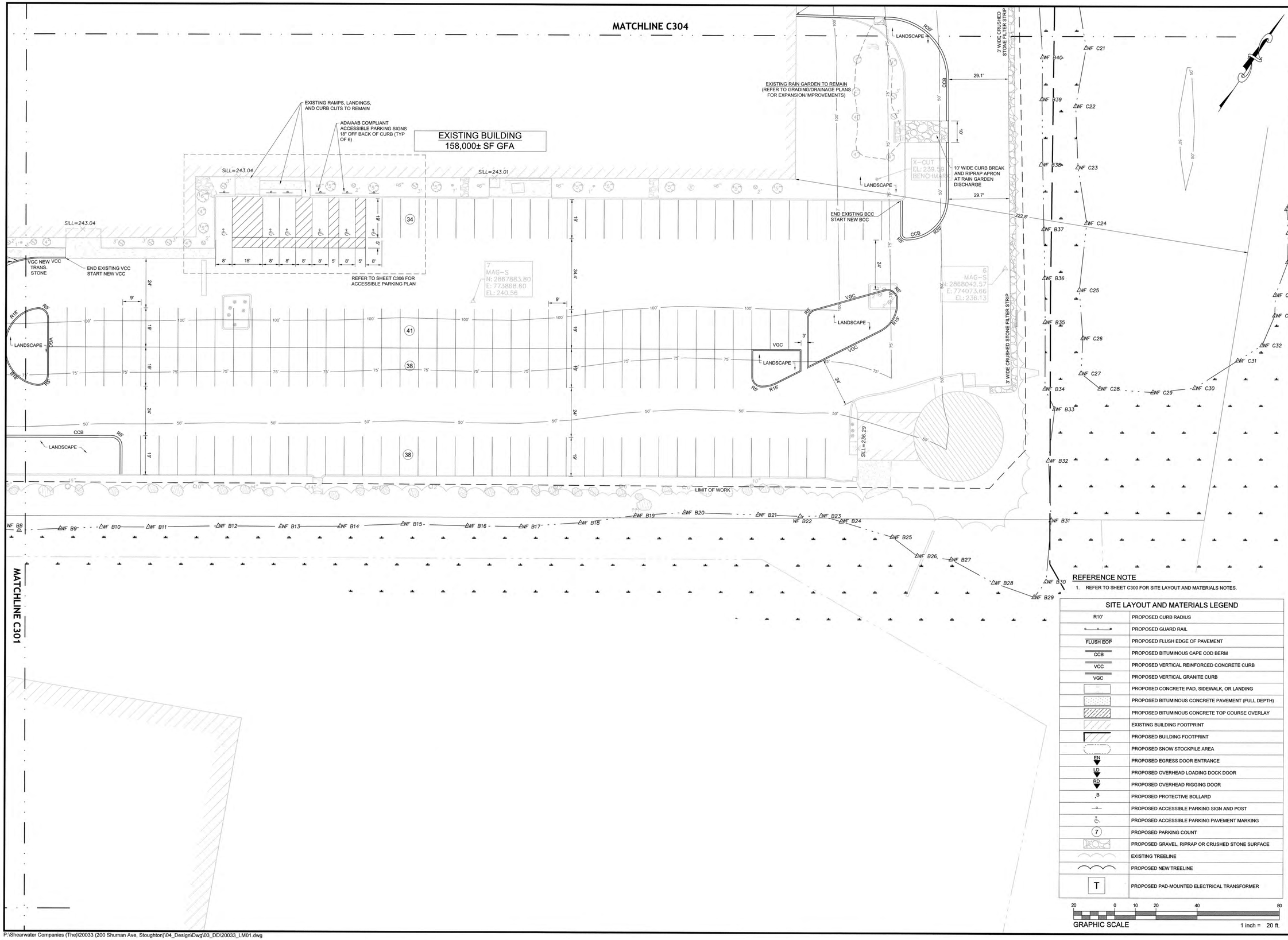
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CHECKED BY: JA

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SHEET TITLE:

LAYOUT & MATERIALS PLAN

SHEET NUMBER: C301



REFERENCE NOTE

1. REFER TO SHEET C300 FOR SITE LAYOUT AND MATERIALS NOTES.

SITE LAYOUT AND MATERIALS LEGEND

R10'	PROPOSED CURB RADIUS
	PROPOSED GUARD RAIL
FLUSH EOP	PROPOSED FLUSH EDGE OF PAVEMENT
CCB	PROPOSED BITUMINOUS CAPE COD BERM
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	PROPOSED ACCESSIBLE PARKING SIGN AND POST
	PROPOSED ACCESSIBLE PARKING PAVEMENT MARKING
7	PROPOSED PARKING COUNT
	PROPOSED GRAVEL, RIPRAP OR CRUSHED STONE SURFACE
	EXISTING TREELINE
	PROPOSED NEW TREELINE
T	PROPOSED PAD-MOUNTED ELECTRICAL TRANSFORMER

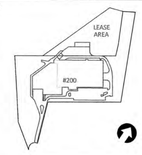
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KEY:



SEAL



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OWNER/APPLICANT: TSC SHUMAN 200 LLC

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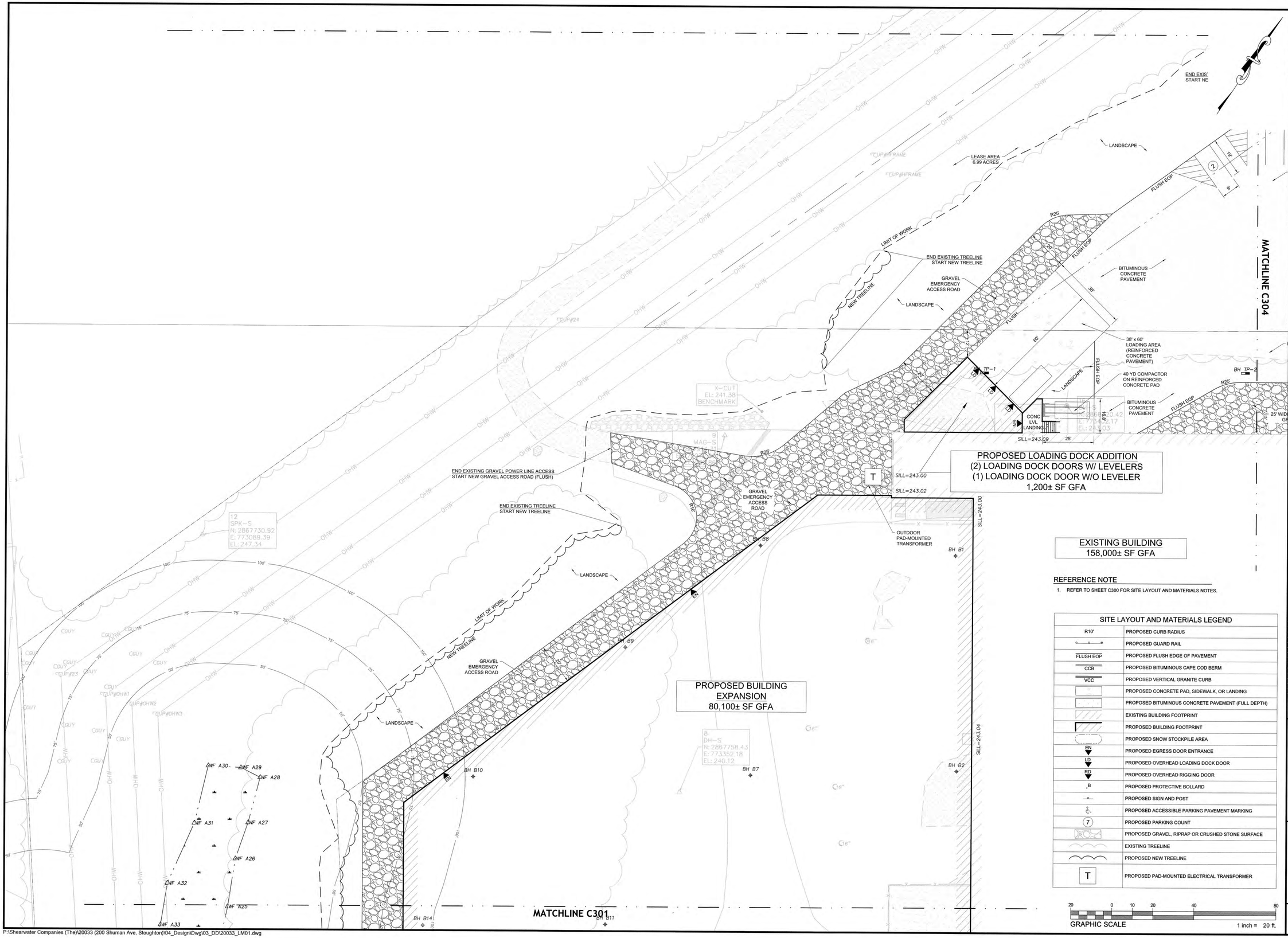
ISSUE TYPE: LOCAL APPROVAL
ISSUE DATE: FEBRUARY 10, 2021
PROJECT NUMBER: 20033

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SHEET TITLE:
LAYOUT & MATERIALS PLAN

SHEET NUMBER:
C302



REFERENCE NOTE

1. REFER TO SHEET C300 FOR SITE LAYOUT AND MATERIALS NOTES.

SITE LAYOUT AND MATERIALS LEGEND

R10'	PROPOSED CURB RADIUS
	PROPOSED GUARD RAIL
FLUSH EOP	PROPOSED FLUSH EDGE OF PAVEMENT
CCB	PROPOSED BITUMINOUS CAPE COD BERM
VCC	PROPOSED VERTICAL GRANITE CURB
	PROPOSED CONCRETE PAD, SIDEWALK, OR LANDING
	PROPOSED BITUMINOUS CONCRETE PAVEMENT (FULL DEPTH)
	EXISTING BUILDING FOOTPRINT
	PROPOSED BUILDING FOOTPRINT
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	PROPOSED SIGN AND POST
	PROPOSED ACCESSIBLE PARKING PAVEMENT MARKING
7	PROPOSED PARKING COUNT
	PROPOSED GRAVEL, RIPRAP OR CRUSHED STONE SURFACE
	EXISTING TREELINE
	PROPOSED NEW TREELINE
T	PROPOSED PAD-MOUNTED ELECTRICAL TRANSFORMER

GRAPHIC SCALE 20 0 10 20 40 80 — 1 inch = 20 ft.

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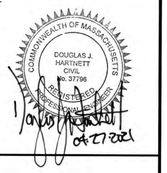
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PHONE: (508) 386-9895
WWW.SHEARWATERCOMPANIES.COM

KEY:



SEAL



PROPOSED BUILDING EXPANSION

200 SHUMAN AVENUE
STOUGHTON, MASSACHUSETTS 02072

OWNER/APPLICANT: TSC SHUMAN 200 LLC

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SHEET TITLE:

LAYOUT & MATERIALS PLAN

SHEET NUMBER:

C303

MATCHLINE C305

MATCHLINE C303

MATCHLINE C302

LANDSCAPE

50' x 168' TRAILER STORAGE AREA
(14) 12' x 50' SPACES
(REINFORCED CONCRETE PAVEMENT)

END FLUSH EOP
START RC PVMT

FLUSH EOP

12' TYP

168'

BITUMINOUS CONCRETE PAVEMENT

NEW TREELINE

LIMIT OF WORK

END CRUSHED STONE FILTER STRIP

STORMWATER MANAGEMENT AREA
SEE GRADING/DRAINAGE AND LANDSCAPE PLANS

3' WIDE CRUSHED STONE FILTER STRIP

25' WIDE NON-VEHICULAR GRAVEL APRON

EXISTING CONCRETE PAD TO REMAIN

OUTDOOR PAD-MOUNTED TRANSFORMER W/ PROTECTIVE BOLLARDS

RECONSTRUCT PAVED DRIVE-UP OVERHEAD DOOR ACCESS

SILL=242.98

SILL=242.97

SILL=243.01

SILL=242.96

SILL=242.91

SILL=243.02

SILL=242.97

14
DH-S
N: 2868166.07
E: 773620.15
EL: 241.97

15
SPK-S
N: 2868464.47
E: 773875.55
EL: 247.60

13
MH-S
N: 2868297.58
E: 773830.97
EL: 252.60

BH_TP_5

BH_TP_7

WF B83
WF B82
WF B81
WF B80
WF B79
WF B78
WF B77
WF B76
WF B75
WF B74
WF B73
WF B72
WF B71 START
WF B56 STOP CONNECT TO B71
WF B55
WF B54
WF B53
WF B52
WF B51
WF B50
WF B49
WF B48
WF B47
WF B46
WF B45
WF B44
WF B43
WF B42
WF B41
WF C3
WF C4
WF C5
WF C6
WF C7
WF C8
WF C9
WF C10
WF C11
WF C12
WF C13
WF C14
WF C15
WF C16
WF C17
WF C18
WF C19
WF C20

END EXISTING TREELINE
START NEW TREELINE

STORMWATER MANAGEMENT AREA
SEE GRADING/DRAINAGE AND LANDSCAPE PLANS

3' WIDE CRUSHED STONE FILTER STRIP

BITUMINOUS CONCRETE PAVEMENT

END EXISTING EOP
START NEW EOP

SAWCUT

NEW
EXISTING

END EXISTING BIT. CONC. PVMT
START NEW BIT. CONC.PVMT

END EXISTING EOP
START NEW EOP

START NEW CCB

LIMIT OF WORK

9' WIDE CRUSHED STONE FILTER STRIP

R10'
R15'
R20'
R30'
R40'
R123'
R215'

EXISTING BUILDING
158,000± SF GFA

SITE LAYOUT AND MATERIALS LEGEND

R10'	PROPOSED CURB RADIUS
	PROPOSED GUARD RAIL
FLUSH EOP	PROPOSED FLUSH EDGE OF PAVEMENT
CCB	PROPOSED BITUMINOUS CAPE COD BERM
VCC	PROPOSED VERTICAL GRANITE CURB
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	PROPOSED NEW TREELINE
T	PROPOSED PAD-MOUNTED ELECTRICAL TRANSFORMER

REFERENCE NOTE

1. REFER TO SHEET C300 FOR SITE LAYOUT AND MATERIALS NOTES.

GRAPHIC SCALE 1 inch = 20 ft.

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CLIENT: THE SHEARWATER COMPANIES LLC
175 PARAMOUNT DRIVE
RAYNHAM, MA 02767
PHONE: (508) 386-9805
WWW.SHEARWATERCOMPANIES.COM

KEY:

LEASE AREA

SEAL

COMMONWEALTH OF MASSACHUSETTS
DOUGLAS J. MARTINETT
CIVIL
No. 37795
REGISTERED PROFESSIONAL ENGINEER
04-27-2021

PROPOSED BUILDING EXPANSION

200 SHUMAN AVENUE
STOUGHTON, MASSACHUSETTS 02072

OWNER/APPLICANT: TSC SHUMAN 200 LLC

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CHECKED BY: JA

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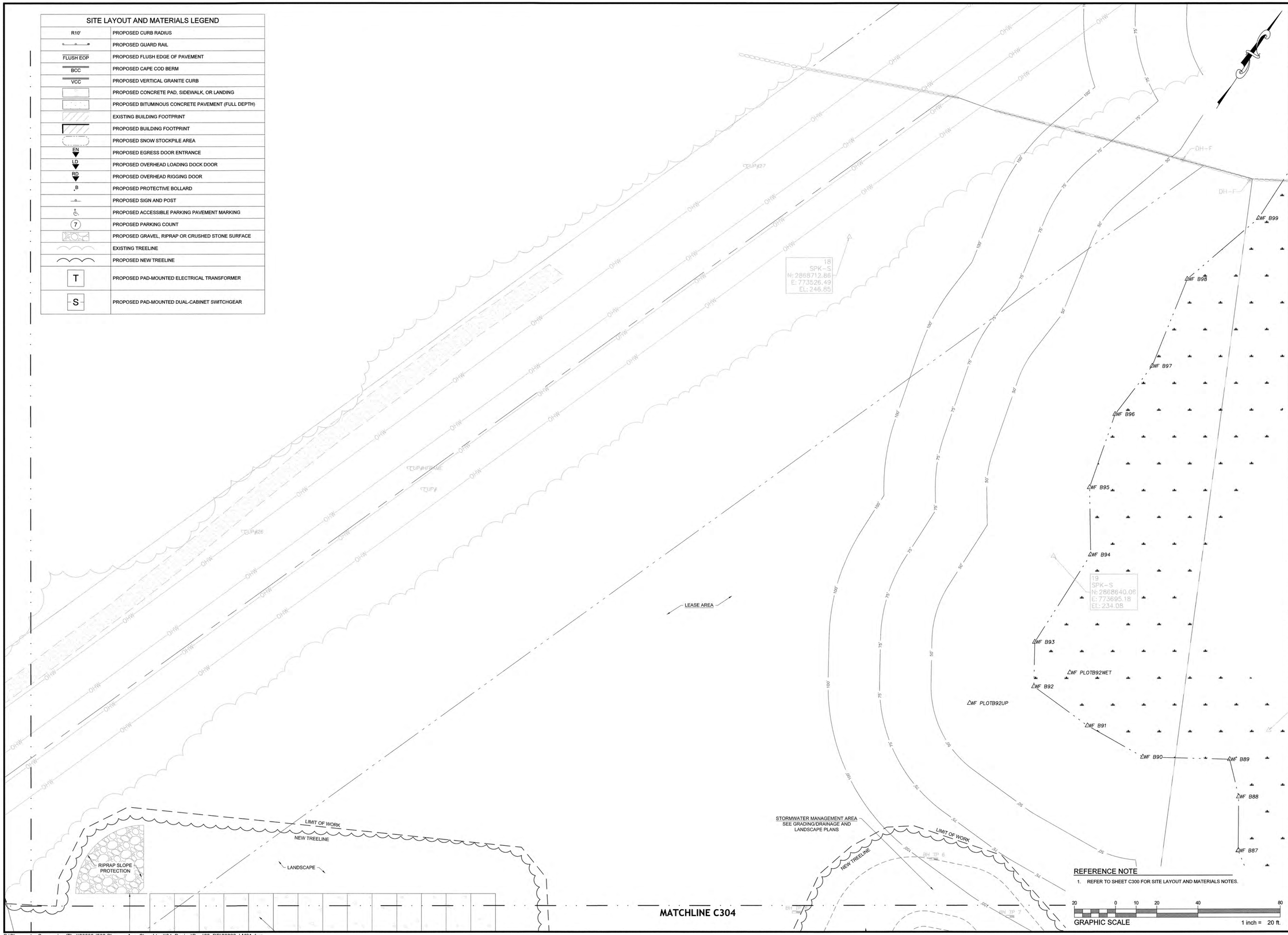
LAYOUT & MATERIALS PLAN

SHEET NUMBER: C304

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SITE LAYOUT AND MATERIALS LEGEND

R10'	PROPOSED CURB RADIUS
	PROPOSED GUARD RAIL
FLUSH EOP	PROPOSED FLUSH EDGE OF PAVEMENT
BCC	PROPOSED CAPE COD BERM
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	PROPOSED NEW TREELINE
T	PROPOSED PAD-MOUNTED ELECTRICAL TRANSFORMER
S	PROPOSED PAD-MOUNTED DUAL-CABINET SWITCHGEAR



REFERENCE NOTE

1. REFER TO SHEET C300 FOR SITE LAYOUT AND MATERIALS NOTES.

20 0 10 20 40 80

GRAPHIC SCALE 1 inch = 20 ft.

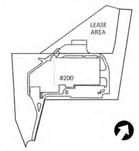
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CLIENT: THE SHEARWATER COMPANIES LLC
175 PARAMOUNT DRIVE
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PHONE: (508) 386-9895
WWW.SHEARWATERCOMPANIES.COM

KEY:



SEAL



PROPOSED BUILDING EXPANSION

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STOUGHTON, MASSACHUSETTS 02072

OWNER/APPLICANT: TSC SHUMAN 200 LLC

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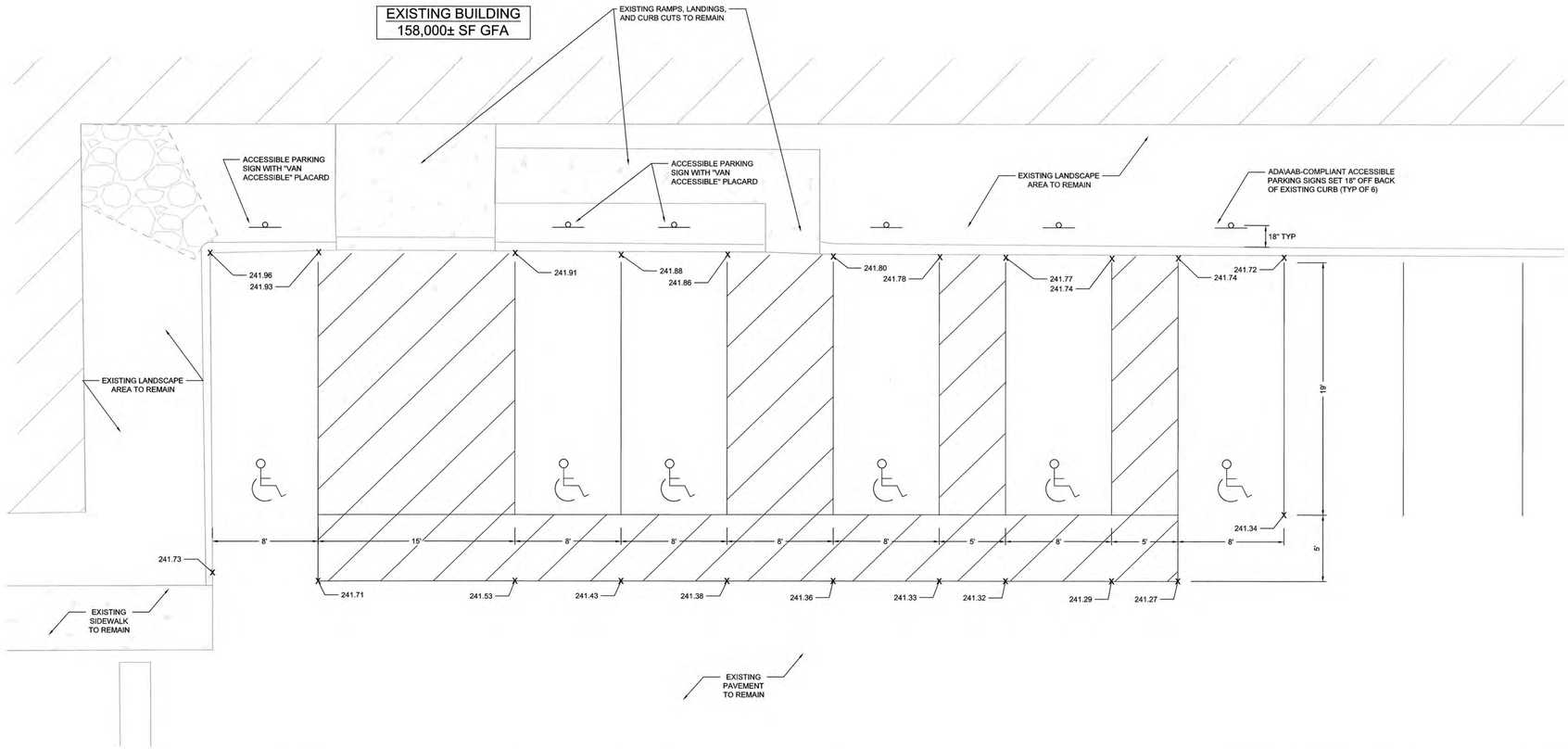
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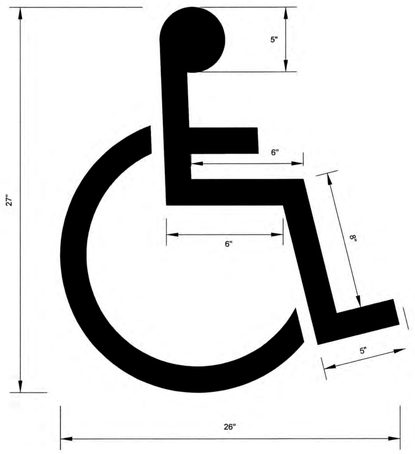
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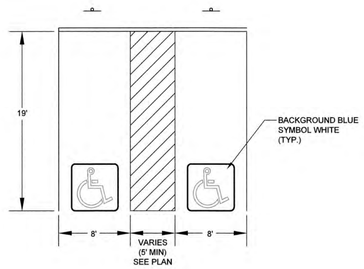
C305

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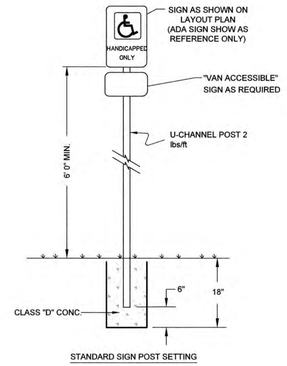




ADA PARKING SYMBOL
ADA PARKING SYMBOL **C3**



ACCESSIBLE PARKING STRIPING
NOT TO SCALE **C2**



NOTE:
1. SIGN LAYOUT, COLORS, SYMBOL AND LETTERING SHALL BE STANDARD.
2. TO BE LOCATED ON SITE AS DIRECTED.
3. METAL POST TO BE PAINTED 2 COATS OF EXTERIOR GREEN ENAMEL (SEE SPECS.).
4. TO BE LOCATED AT APPROPRIATE SPACES.
5. CONTRACTOR TO COORDINATE FINAL SIGN DETAILS AND LANGUAGE WITH THE STOUGHTON POLICE DEPARTMENT.

SIGN POST
NOT TO SCALE **C1**

REFERENCE NOTE

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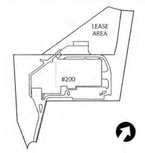
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S	PROPOSED PAD-MOUNTED DUAL-CABINET SWITCHGEAR

5 0 2.5 5 10 20
GRAPHIC SCALE 1 inch = 5 ft.

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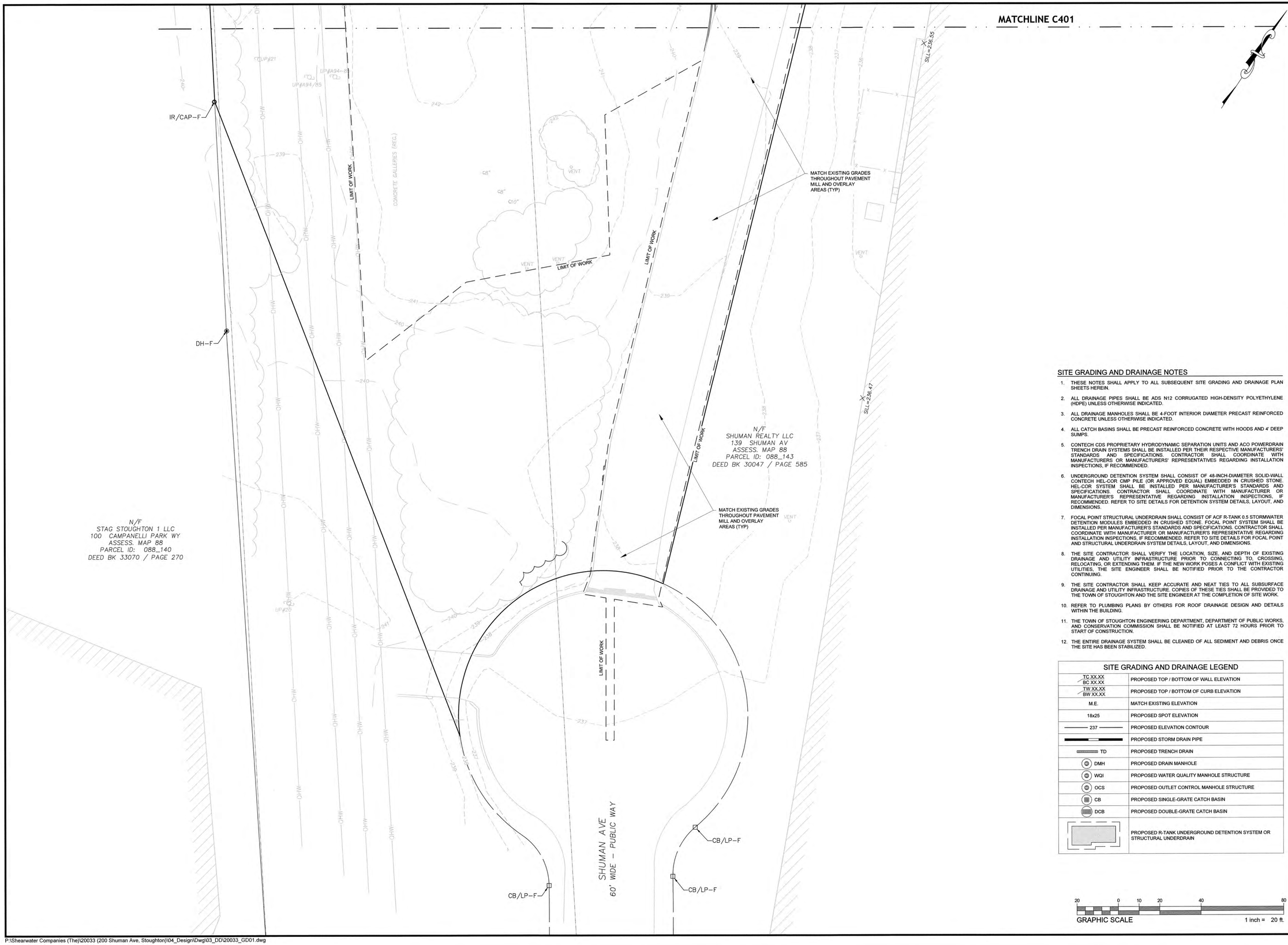
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ISSUE DATE: FEBRUARY 10, 2021
PROJECT NUMBER: 20033

DRAWN BY: JJA
CHECKED BY: MF

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SHEET TITLE:
ADA/AAB CONFORMANCE PLAN

SHEET NUMBER:
C306



SITE GRADING AND DRAINAGE NOTES

1. THESE NOTES SHALL APPLY TO ALL SUBSEQUENT SITE GRADING AND DRAINAGE PLAN SHEETS HEREIN.
2. ALL DRAINAGE PIPES SHALL BE ADS N12 CORRUGATED HIGH-DENSITY POLYETHYLENE (HDPE) UNLESS OTHERWISE INDICATED.
3. ALL DRAINAGE MANHOLES SHALL BE 4-FOOT INTERIOR DIAMETER PRECAST REINFORCED CONCRETE UNLESS OTHERWISE INDICATED.
4. ALL CATCH BASINS SHALL BE PRECAST REINFORCED CONCRETE WITH HOODS AND 4' DEEP SUMPS.
5. CONTECH CDS PROPRIETARY HYDRODYNAMIC SEPARATION UNITS AND ACO POWERDRAIN TRENCH DRAIN SYSTEMS SHALL BE INSTALLED PER THEIR RESPECTIVE MANUFACTURERS' STANDARDS AND SPECIFICATIONS. CONTRACTOR SHALL COORDINATE WITH MANUFACTURERS OR MANUFACTURERS' REPRESENTATIVES REGARDING INSTALLATION INSPECTIONS, IF RECOMMENDED.
6. UNDERGROUND DETENTION SYSTEM SHALL CONSIST OF 48-INCH-DIAMETER SOLID-WALL CONTECH HEL-COR CMP PILE (OR APPROVED EQUAL) EMBEDDED IN CRUSHED STONE. HEL-COR SYSTEM SHALL BE INSTALLED PER MANUFACTURER'S STANDARDS AND SPECIFICATIONS. CONTRACTOR SHALL COORDINATE WITH MANUFACTURER OR MANUFACTURER'S REPRESENTATIVE REGARDING INSTALLATION INSPECTIONS, IF RECOMMENDED. REFER TO SITE DETAILS FOR DETENTION SYSTEM DETAILS, LAYOUT, AND DIMENSIONS.
7. FOCAL POINT STRUCTURAL UNDERDRAIN SHALL CONSIST OF ACF R-TANK 0.5 STORMWATER DETENTION MODULES EMBEDDED IN CRUSHED STONE. FOCAL POINT SYSTEM SHALL BE INSTALLED PER MANUFACTURER'S STANDARDS AND SPECIFICATIONS. CONTRACTOR SHALL COORDINATE WITH MANUFACTURER OR MANUFACTURER'S REPRESENTATIVE REGARDING INSTALLATION INSPECTIONS, IF RECOMMENDED. REFER TO SITE DETAILS FOR FOCAL POINT AND STRUCTURAL UNDERDRAIN SYSTEM DETAILS, LAYOUT, AND DIMENSIONS.
8. THE SITE CONTRACTOR SHALL VERIFY THE LOCATION, SIZE, AND DEPTH OF EXISTING DRAINAGE AND UTILITY INFRASTRUCTURE PRIOR TO CONNECTING TO, CROSSING, RELOCATING, OR EXTENDING THEM. IF THE NEW WORK POSES A CONFLICT WITH EXISTING UTILITIES, THE SITE ENGINEER SHALL BE NOTIFIED PRIOR TO THE CONTRACTOR CONTINUING.
9. THE SITE CONTRACTOR SHALL KEEP ACCURATE AND NEAT TIES TO ALL SUBSURFACE DRAINAGE AND UTILITY INFRASTRUCTURE. COPIES OF THESE TIES SHALL BE PROVIDED TO THE TOWN OF STOUGHTON AND THE SITE ENGINEER AT THE COMPLETION OF SITE WORK.
10. REFER TO PLUMBING PLANS BY OTHERS FOR ROOF DRAINAGE DESIGN AND DETAILS WITHIN THE BUILDING.
11. THE TOWN OF STOUGHTON ENGINEERING DEPARTMENT, DEPARTMENT OF PUBLIC WORKS, AND CONSERVATION COMMISSION SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO START OF CONSTRUCTION.
12. THE ENTIRE DRAINAGE SYSTEM SHALL BE CLEANED OF ALL SEDIMENT AND DEBRIS ONCE THE SITE HAS BEEN STABILIZED.

SITE GRADING AND DRAINAGE LEGEND

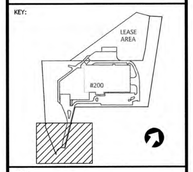
TC XX.XX / BC XX.XX	PROPOSED TOP / BOTTOM OF WALL ELEVATION
TW XX.XX / BW XX.XX	PROPOSED TOP / BOTTOM OF CURB ELEVATION
M.E.	MATCH EXISTING ELEVATION
18x25	PROPOSED SPOT ELEVATION
237	PROPOSED ELEVATION CONTOUR
	PROPOSED STORM DRAIN PIPE
TD	PROPOSED TRENCH DRAIN
DMH	PROPOSED DRAIN MANHOLE
WQI	PROPOSED WATER QUALITY MANHOLE STRUCTURE
OCS	PROPOSED OUTLET CONTROL MANHOLE STRUCTURE
CB	PROPOSED SINGLE-GRATE CATCH BASIN
DCB	PROPOSED DOUBLE-GRATE CATCH BASIN
	PROPOSED R-TANK UNDERGROUND DETENTION SYSTEM OR STRUCTURAL UNDERDRAIN

20 0 10 20 40 80
GRAPHIC SCALE 1 inch = 20 ft.

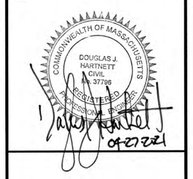
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www.HighpointEng.com

CLIENT: THE SHEARWATER COMPANIES LLC
175 PARAMOUNT DRIVE
RAYNHAM, MA 02767
PHONE: (508) 386-9895
WWW.SHEARWATERCOMPANIES.COM

KEY:



SEAL



PROPOSED BUILDING EXPANSION
200 SHUMAN AVENUE
STOUGHTON, MASSACHUSETTS 02072
OWNER/APPLICANT: TSC SHUMAN 200 LLC

REV	DATE	DESCRIPTION
3	4/27/2021	FINAL APPROVAL PLANS
2	3/25/2021	NO CHANGE
1	3/15/2021	REVISED PER TOWN COMMENTS

ISSUE TYPE: LOCAL APPROVAL
ISSUE DATE: FEBRUARY 10, 2021
PROJECT NUMBER: 20033

DRAWN BY: CM
CHECKED BY: JA

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SHEET TITLE:
GRADING & DRAINAGE PLAN

SHEET NUMBER:
C400

P:\Shearwater Companies (The)\20033 (200 Shuman Ave, Stoughton)\04_Design\Dwg\03_DD\20033_GD01.dwg

MATCHLINE C403

PROPOSED BUILDING EXPANSION
80,100± SF GFA

EXISTING BUILDING
158,000± SF GFA

PERFORATED PIPE INFILTRATION TRENCH
94 LF - 8" PERFORATED SDR 35 PVC PIPE
EMBEDDED IN 94'L x 4'W x 1.17'D CRUSHED STONE
PIPE INV=240.10
BOTTOM OF STONE=239.60

END 8" PERFORATED SDR 35 PVC
START 8" SOLID-WALL SDR 35 PVC

TD 1
ACO POWERDRAIN
S300K TRENCH DRAIN W/
SLOPING CHANNEL AND
SK3-903D IN-LINE CATCH BASIN
RIM=239.00
INV(OUT-DMH1-8")=235.98

8" HDPE
L=110' | S=1.0%

12" HDPE
L=93' | S=1.0%

24" OVERFLOW RISER W/
CAST IRON BEEHIVE GRATE
RIM=236.25
INV(IN-FP-6")=233.25
INV(OUT-DMH2-12")=232.75

DMH 2
DOGHOUSE MANHOLE
RIM=236.00
INV(IN-WQI4-12")=233.60
INV(IN-OFRBER-12")=232.70
INV(OUT-EX-15")=232.06

WQI 4
RIM=238.84
INV(IN-TD1-8")=234.88
INV(OUT-DMH2-12")=234.55

FOCAL POINT (FP) STORMWATER
TREATMENT FACILITY
FP SURFACE AREA=222 SF
TOP OF 3" MULCH=235.25
TOP OF 18" FILTER MEDIA=235.00
TOP OF 6" BRIDGING STONE=233.50
BOTTOM OF 6" BRIDGING STONE=233.00

STRUCTURAL UNDERDRAIN
(143) R-TANK 0.5 MODULES
TOP OF STONE=233.50
TOP OF MODULES=233.00
BOTTOM OF MODULES=232.21
BOTTOM OF STONE=231.96
INV(OUT-DMH2-8")=232.21

PAVEMENT REMOVAL FROM
SOUTHERLY PORTION OF EXISTING
PARKING LOT = 5,000± SF

LIMIT OF WORK

MATCH EXISTING GRADES
THROUGHOUT PAVEMENT
MILL AND OVERLAY
AREAS (TYP)

MONITORING WELL

N/F
FRANKLIN
CORBETT RD
GHTON,MA
SS. MAP 88
ID: 088_126
BK 36968
AGE 8

N/F
AMPANELLI
DINGS LLC
NELLI PARK WY
GHTON,MA
SS. MAP 88
ID: 088_139
BK 33921
AGE 191

N/F
TOUGHTON 1 LLC
MPANELLI PARK WY
ESS. MAP 88
L ID: 088_140
33070 / PAGE 270

N/F
SHUMAN REALTY LLC
139 SHUMAN AV
ASSESS. MAP 88
PARCEL ID: 088_143
DEED BK 30047 / PAGE 585

(RB) DISTRICT
AL (I) DISTRICT

MATCHLINE C402

MATCHLINE C400

REFERENCE NOTE

1. REFER TO SHEET C400 FOR SITE GRADING AND DRAINAGE NOTES.

SITE GRADING AND DRAINAGE LEGEND

TC XX.XX / BC XX.XX	PROPOSED TOP / BOTTOM OF WALL ELEVATION
TW XX.XX / BW XX.XX	PROPOSED TOP / BOTTOM OF CURB ELEVATION
(M.E.)	MATCH EXISTING ELEVATION
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237	PROPOSED ELEVATION CONTOUR
	PROPOSED STORM DRAIN PIPE
TD	PROPOSED TRENCH DRAIN
DMH	PROPOSED DRAIN MANHOLE
WQI	PROPOSED WATER QUALITY MANHOLE STRUCTURE
OCS	PROPOSED OUTLET CONTROL MANHOLE STRUCTURE
CB	PROPOSED SINGLE-GRATE CATCH BASIN
DCB	PROPOSED DOUBLE-GRATE CATCH BASIN
	PROPOSED R-TANK UNDERGROUND DETENTION SYSTEM OR STRUCTURAL UNDERDRAIN

GRAPHIC SCALE 20 0 10 20 40 80 — 1 inch = 20 ft.

P:\Shearwater Companies (The)\20033 (200 Shuman Ave, Stoughton)\04_Design\Dwg\03_DD\20033_GD01.dwg

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175 PARAMOUNT DRIVE
RAYNHAM, MA 02767
PHONE: (508) 386-9895
WWW.SHEARWATERCOMPANIES.COM

KEY:

SEAL

COMMONWEALTH OF MASSACHUSETTS
DOUGLAS J. HARTNETT
CIVIL
No. 37736
REGISTERED PROFESSIONAL ENGINEER
04.27.2021

PROPOSED BUILDING EXPANSION
200 SHUMAN AVENUE
STOUGHTON, MASSACHUSETTS 02072

OWNER/APPLICANT: TSC SHUMAN 200 LLC

REV	DATE	DESCRIPTION
3	4/27/2021	FINAL APPROVAL PLANS
2	3/25/2021	NO CHANGE
1	3/15/2021	REVISED PER TOWN COMMENTS

ISSUE TYPE: LOCAL APPROVAL
ISSUE DATE: FEBRUARY 10, 2021
PROJECT NUMBER: 20033

DRAWN BY: CM
CHECKED BY: JA

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SHEET TITLE:
GRADING & DRAINAGE PLAN

SHEET NUMBER:
C401

MATCHLINE C404

MATCHLINE C401

EXISTING BUILDING
FFE = 243.00

EXISTING RAIN GARDEN AND PLANTINGS TO REMAIN; CONSTRUCT NEW/ EXPANDED RIPRAP SPILLWAYS AS SHOWN

ACCESSIBLE PARKING AREA (EXISTING PAVEMENT TO REMAIN)

3' WIDE CRUSHED STONE FILTER STRIP AT FLUSH EDGE OF PAVEMENT (650 LF)

END 3' WIDE CRUSHED STONE FILTER STRIP

LIMIT OF 100-YEAR FLOODPLAIN

LIMIT OF WORK

PARCEL ID: 100_001
DEED BK 15977
PAGE 280

N/F
TOWN OF STOUG
0 SHUMAN
STOUGHTON,
ASSESS. MAP
PARCEL ID: 10
DEED BK 15
PAGE 280

N/F
SHUMAN REALTY LLC
139 SHUMAN AV
ASSESS. MAP 88
PARCEL ID: 088_143
DEED BK 30047 / PAGE 585

CBD 5855
RIM=235.37
INV A=232.27

12" STEEL

12" FES INV.=231.50

SILL=243.04

SILL=243.01

SILL=236.29

TC 238.33
BC 238.00 (M.E.)

TC 237.83
BC 237.50 (M.E.)

TC 237.73
BC 237.40 (M.E.)

TC 237.83 (M.E.)
BC 237.50 (M.E.)

TC 237.33
BC 237.00 (M.E.)

TC 237.55
BC 237.22 (M.E.)

TC 237.34
BC 236.84 (M.E.)

TC 238.00
BC 237.50 (M.E.)

TC 237.75
BC 237.25 (M.E.)

TC 238.30
BC 237.80 (M.E.)

TC 237.17
BC 236.67 (M.E.)

TC 237.45
BC 236.95 (M.E.)

TC 237.95
BC 237.45 (M.E.)

TC 237.50
BC 237.00 (M.E.)

TC 22.86 (M.E.)
BC 242.36 (M.E.)

TC 242.10
BC 241.60 (M.E.)

TC 241.80
BC 241.30 (M.E.)

TC 241.17
BC 240.67 (M.E.)

TC 241.25
BC 240.75 (M.E.)

TC 240.33
BC 240.00 (M.E.)

TC 240.73
BC 240.40 (M.E.)

TC 240.39 (M.E.)
BC 240.06 (M.E.)

241.93 241.96 241.86 241.88 241.80 241.77 241.78 241.74 241.74 241.72 241.73 241.53 241.71 241.43 241.38 241.36 241.32 241.33 241.27 241.29 241.34

LWF B8 LWF B9 LWF B10 LWF B11 LWF B12 LWF B13 LWF B14 LWF B15 LWF B16 LWF B17 LWF B18 LWF B19 LWF B20 LWF B21 LWF B22 LWF B23 LWF B24 LWF B25 LWF B26 LWF B27 LWF B28 LWF B29 LWF B30 LWF B31 LWF B32 LWF B33 LWF B34 LWF B35 LWF B36 LWF B37 LWF B38 LWF B39 LWF B40 LWF C21 LWF C22 LWF C23 LWF C24 LWF C25 LWF C26 LWF C27 LWF C28 LWF C29 LWF C30 LWF C31 LWF C32

REFERENCE NOTE

1. REFER TO SHEET C400 FOR SITE GRADING AND DRAINAGE NOTES.

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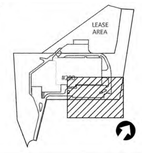
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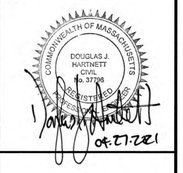
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CANTON, MA 02021
www.HighpointEng.com

CLIENT: THE SHEARWATER COMPANIES LLC
175 PARAMOUNT DRIVE
RAYNHAM, MA 02767
PHONE: (508) 386-9895
WWW.SHEARWATERCOMPANIES.COM

KEY:



SEAL



PROPOSED BUILDING EXPANSION

200 SHUMAN AVENUE
STOUGHTON, MASSACHUSETTS 02072

OWNER/APPLICANT: TSC SHUMAN 200 LLC

REV	DATE	DESCRIPTION
3	4/27/2021	FINAL APPROVAL PLANS
2	3/25/2021	NO CHANGE
1	3/15/2021	REVISED PER TOWN COMMENTS

ISSUE TYPE:
LOCAL APPROVAL

ISSUE DATE:
FEBRUARY 10, 2021

PROJECT NUMBER:
20033

DRAWN BY: CM

CHECKED BY: JA

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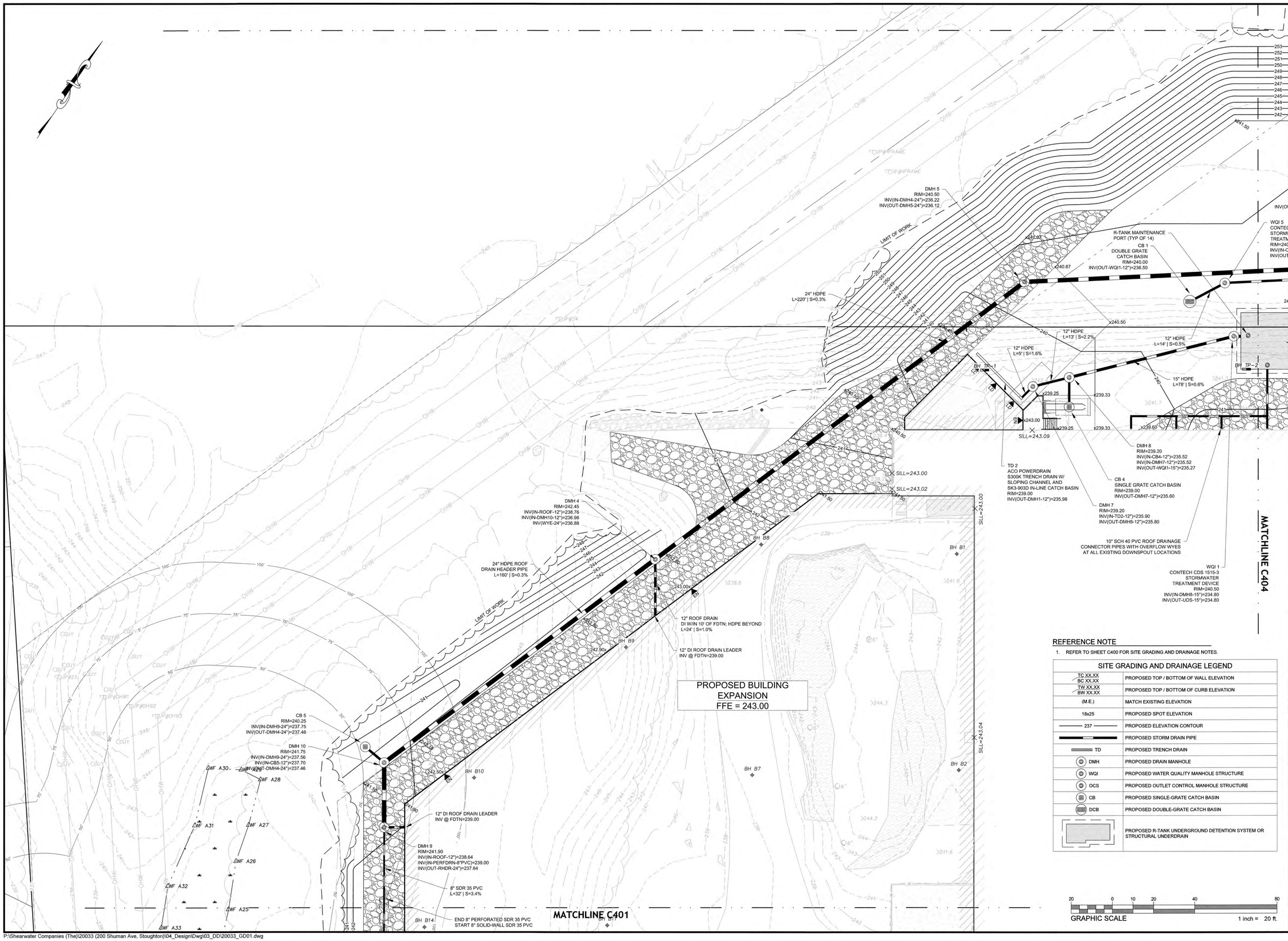
SHEET TITLE:

GRADING & DRAINAGE PLAN

SHEET NUMBER:

C402

P:\Shearwater Companies (The)\20033 (200 Shuman Ave, Stoughton)\04_Design\Dwg\03_DD\20033_GD01.dwg



REFERENCE NOTE

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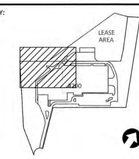
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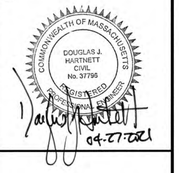
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KEY:



SEAL



PROPOSED BUILDING EXPANSION

200 SHUMAN AVENUE
STOUGHTON, MASSACHUSETTS 02072

OWNER/APPLICANT: TSC SHUMAN 200 LLC

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SHEET TITLE:
GRADING & DRAINAGE PLAN

SHEET NUMBER:
C403

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MATCHLINE C405

MATCHLINE C403

MATCHLINE C402

REFER TO SECTION A-A ON SHEET C405 FOR INFILTRATION BASIN 1 AND DETENTION BASIN SECTION

(2) NYLOPLAST IN-LINE DRAIN BASINS INV(12")=233.72

PRECAST HEADWALL OUTLET INV(24")=234.75 INV(18")=234.75

GRASSED BIOFILTER SWALE L=90' | W=5' | S=0.0025

3' WIDE CRUSHED STONE FILTER STRIP AT FLUSH EDGE OF PAVEMENT (650 LF)

LIMIT OF WORK

INFILTRATION BASIN 1 TOP ELEV=238.25 BOTTOM ELEV=235.90

5' LENGTH x 8' BREADTH RIPRAP SPILLWAY ELEV=235.95

10' LENGTH x 3' BREADTH RIPRAP SPILLWAY ELEV=237.80

10' LENGTH x 8' BREADTH RIPRAP SPILLWAY ELEV=235.90

GRASSED DETENTION BASIN TOP ELEV=236.50 BOTTOM ELEV=233.75

PRECAST CONCRETE DUAL PIPE HEADWALL INV(2-12")=233.75

(2) 12" HDPE S=2% MIN

PRECAST CONCRETE DUAL PIPE HEADWALL INV(2-12")=233.50

PRECAST CONCRETE HEADWALL INV(18")=233.20

6' LENGTH x 3' BREADTH RIPRAP SPILLWAY ELEV=235.50

LIMIT OF 100-YEAR FLOODPLAIN

REFER TO SECTION C-C ON SHEET C405 FOR SEDIMENT FOREBAY 2 AND INFILTRATION BASIN 2 SECTION

INFILTRATION BASIN 2 TOP ELEV=236.00 BOTTOM ELEV=235.00

6' LENGTH x 3' BREADTH RIPRAP SPILLWAY ELEV=235.50

SEDIMENT FOREBAY 2 TOP ELEVATION=236.00 BOTTOM ELEVATION=235.50 VOLUME REQUIRED=44 FT³ VOLUME PROVIDED=383 FT³

TC 238.85 (M.E.) BC 238.60 (M.E.)

TC 238.33 BC 238.00 (M.E.)

CB 2 DOUBLE GRATE CATCH BASIN RIM=240.00 INV(OUT-WQI2-12")=236.50

WQI 2 CONTECH CDS 1515-3 STORMWATER TREATMENT DEVICE RIM=240.10 INV(IN-CB2-12")=236.48 INV(OUT-UDS-12")=236.48

DMH 6 RIM=240.85 INV(IN-DMH5-24")=235.38 INV(OUT-HW-24")=235.38

WQI 5 CONTECH CDS 1515-3 STORMWATER TREATMENT DEVICE RIM=240.30 INV(IN-CB1-12")=236.43 INV(OUT-DMH11-12")=236.43

DMH 11 RIM=240.20 INV(IN-WQI2-12")=236.45 INV(IN-WQI5-12")=236.00 INV(OUT-DMH12-18")=235.95

24" HDPE L=248' | S=0.3%

24" HDPE L=205' | S=0.3%

12" HDPE L=86' | S=0.5%

18" HDPE L=120' | S=0.3%

18" HDPE L=270' | S=0.3%

R-TANK MAINTENANCE PORT (TYP OF 14)

48" HDPE L=56' | S=0%

18" HDPE L=37' | S=0.3%

INV=237.73 INV=238.01 INV=237.47 INV=237.31 INV=236.27

SILL=242.98 SILL=242.97 SILL=243.01 SILL=242.96 SILL=242.91

240x00 (M.E.)

242x91 (M.E.)

233x16 (M.E.)

237.30 (M.E.)

237.10 (M.E.)

UNDERGROUND DETENTION SYSTEM (2,751) R-TANK 3.0 MODULES EMBEDDED IN CRUSHED STONE TOP OF STONE=238.50 TOP OF MODULES=237.50 BOTTOM OF MODULES=233.30 BOTTOM OF STONE=233.05 INV(IN-EXROOF-10")=236.47 (9 TOTAL) INV(IN-WQI1-15")=234.78 INV(OUT-OCS-48")=233.30

10" SCH 40 PVC ROOF DRAINAGE CONNECTOR PIPES WITH OVERFLOW WYES AT ALL EXISTING DOWNSPOUT LOCATIONS

10' LENGTH x 5' BREADTH RIPRAP SPILLWAY ELEV=238.75

SEDIMENT FOREBAY 1 TOP ELEVATION=238.75 BOTTOM ELEVATION=238.50 VOLUME REQUIRED=153 FT³ VOLUME PROVIDED=297 FT³

REFER TO SECTION B-B ON SHEET C405 FOR SEDIMENT FOREBAY 1 AND SWALE SECTION

10" SCH 40 PVC ROOF DRAINAGE CONNECTOR PIPES WITH OVERFLOW WYES AT ALL EXISTING DOWNSPOUT LOCATIONS

OCS 5Ø PRECAST MANHOLE W/ OUTLET CONTROL BAFFLE WALL RIM=239.25 INV(IN-UDS-48")=233.30 INV(OUT-HW-18")=233.30 INV(ORIF-6"H x 15"W)=233.30 INV(ORIF-5"H x 20"W)=234.80 INV(WEIR-3.5'W x 0.65'H)=237.85

MATCH EXISTING GRADES THROUGHOUT DRIVE-UP OVERHEAD DOOR ACCESS

3' WIDE CRUSHED STONE FILTER STRIP AT FLUSH EDGE OF PAVEMENT (650 LF)

EXISTING BUILDING FFE = 243.00

LWF B83 LWF B82 LWF B81 LWF B80 LWF B79 LWF B78 LWF B77 LWF B76 LWF B75 LWF B74 LWF B73 LWF B72 LWF B71 START LWF B71 STOP CONNECT TO B56 LWF B56 LWF B55 LWF B54 LWF B53 LWF B52 LWF B51 LWF B50 LWF B49 LWF B48 LWF B47 LWF B46 LWF B45 LWF B44 LWF B43 LWF B42 LWF B41 LWF C21 LWF C20 LWF C19 LWF C18 LWF C17 LWF C16 LWF C15 LWF C14 LWF C13 LWF C12 LWF C11 LWF C10 LWF C9 LWF C8 LWF C7 LWF C6 LWF C5 LWF C4 LWF C3

REFERENCE NOTE

1. REFER TO SHEET C400 FOR SITE GRADING AND DRAINAGE NOTES.

SITE GRADING AND DRAINAGE LEGEND

TC XX.XX / BC XX.XX	PROPOSED TOP / BOTTOM OF WALL ELEVATION
TW XX.XX / BW XX.XX	PROPOSED TOP / BOTTOM OF CURB ELEVATION
(M.E.)	MATCH EXISTING ELEVATION
18x25	PROPOSED SPOT ELEVATION
237	PROPOSED ELEVATION CONTOUR
	PROPOSED STORM DRAIN PIPE
TD	PROPOSED TRENCH DRAIN
DMH	PROPOSED DRAIN MANHOLE
WQI	PROPOSED WATER QUALITY MANHOLE STRUCTURE
OCS	PROPOSED OUTLET CONTROL MANHOLE STRUCTURE
CB	PROPOSED SINGLE-GRATE CATCH BASIN
DCB	PROPOSED DOUBLE-GRATE CATCH BASIN
	PROPOSED R-TANK UNDERGROUND DETENTION SYSTEM OR STRUCTURAL UNDERDRAIN

20 0 10 20 40 80

GRAPHIC SCALE 1 inch = 20 ft.

P:\Shearwater Companies (The)\20033 (200 Shuman Ave, Stoughton)\04_Design\Dwg\03_DD\20033_GD01.dwg

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CLIENT: THE SHEARWATER COMPANIES LLC
175 PARAMOUNT DRIVE
RAYNHAM, MA 02767
PHONE: (508) 386-9895
WWW.SHEARWATERCOMPANIES.COM

KEY:

SEAL

COMMONWEALTH OF MASSACHUSETTS
DOUGLAS J. HARTNETT
CIVIL
No. 37796
REGISTERED PROFESSIONAL ENGINEER
04.27.2021

PROPOSED BUILDING EXPANSION

200 SHUMAN AVENUE
STOUGHTON, MASSACHUSETTS 02072

OWNER/APPLICANT: TSC SHUMAN 200 LLC

REV	DATE	DESCRIPTION
3	4/27/2021	FINAL APPROVAL PLANS
2	3/25/2021	NO CHANGE
1	3/15/2021	REVISED PER TOWN COMMENTS

ISSUE TYPE: LOCAL APPROVAL

ISSUE DATE: FEBRUARY 10, 2021

PROJECT NUMBER: 20033

DRAWN BY: CM

CHECKED BY: JA

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SHEET TITLE:

GRADING & DRAINAGE PLAN

SHEET NUMBER:

C404

NOTE:
REFER TO LANDSCAPE PLANS FOR STORMWATER BASIN SEED MIX SPECIFICATIONS

INFILTRATION AND DETENTION BASIN SECTION A-A
HORIZONTAL SCALE: 1"=10' | VERTICAL SCALE: 1"=4'

NOTE:
REFER TO LANDSCAPE PLANS FOR STORMWATER BASIN SEED MIX SPECIFICATIONS

FOREBAY AND SWALE SECTION B-B
HORIZONTAL SCALE: 1"=10' | VERTICAL SCALE: 1"=4'

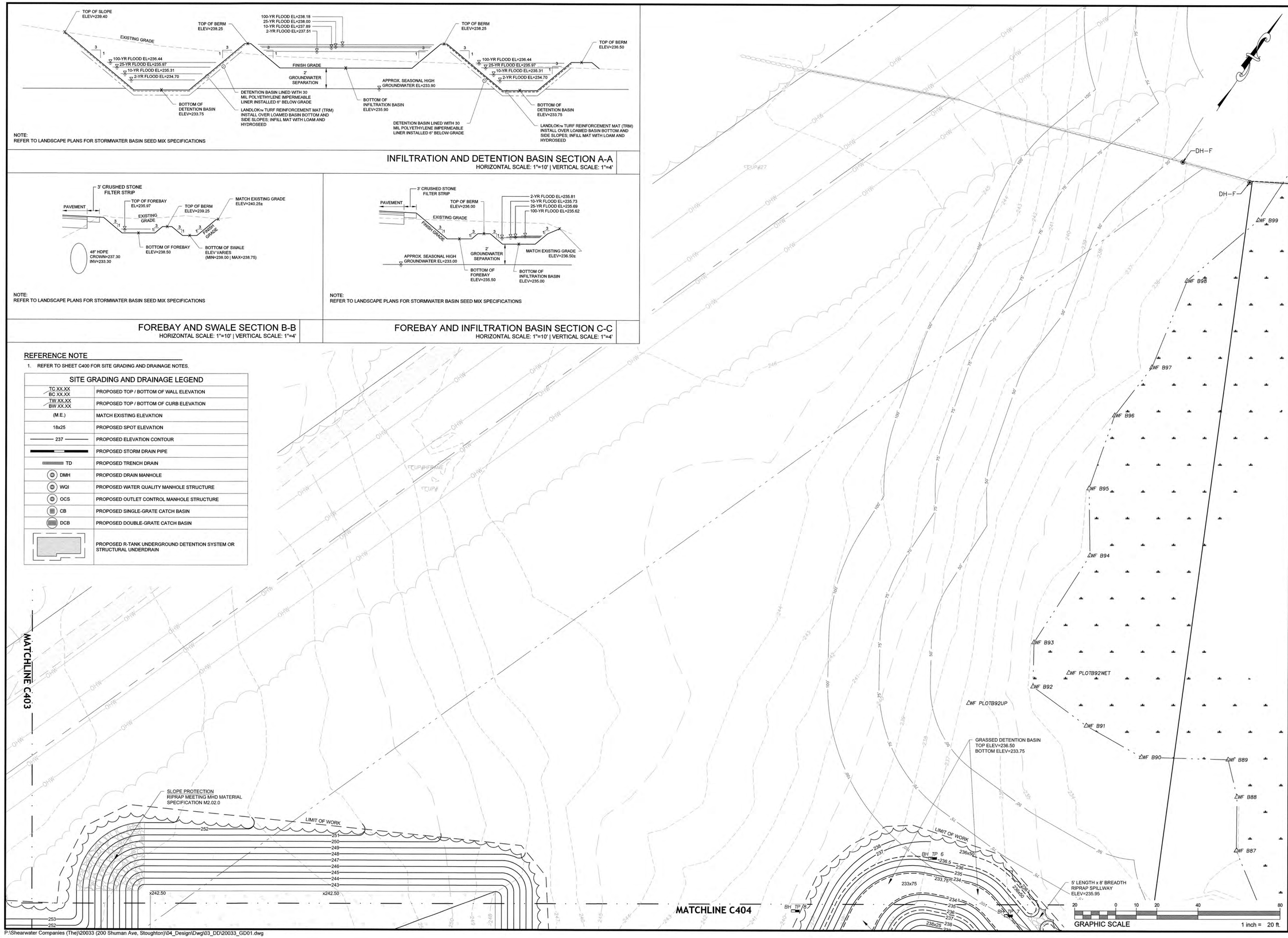
NOTE:
REFER TO LANDSCAPE PLANS FOR STORMWATER BASIN SEED MIX SPECIFICATIONS

FOREBAY AND INFILTRATION BASIN SECTION C-C
HORIZONTAL SCALE: 1"=10' | VERTICAL SCALE: 1"=4'

REFERENCE NOTE

1. REFER TO SHEET C400 FOR SITE GRADING AND DRAINAGE NOTES.

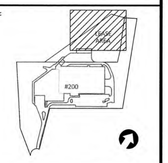
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KEY:



SEAL



PROPOSED BUILDING EXPANSION
200 SHUMAN AVENUE
STOUGHTON, MASSACHUSETTS 02072

OWNER/APPLICANT: TSC SHUMAN 200 LLC

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ISSUE DATE:
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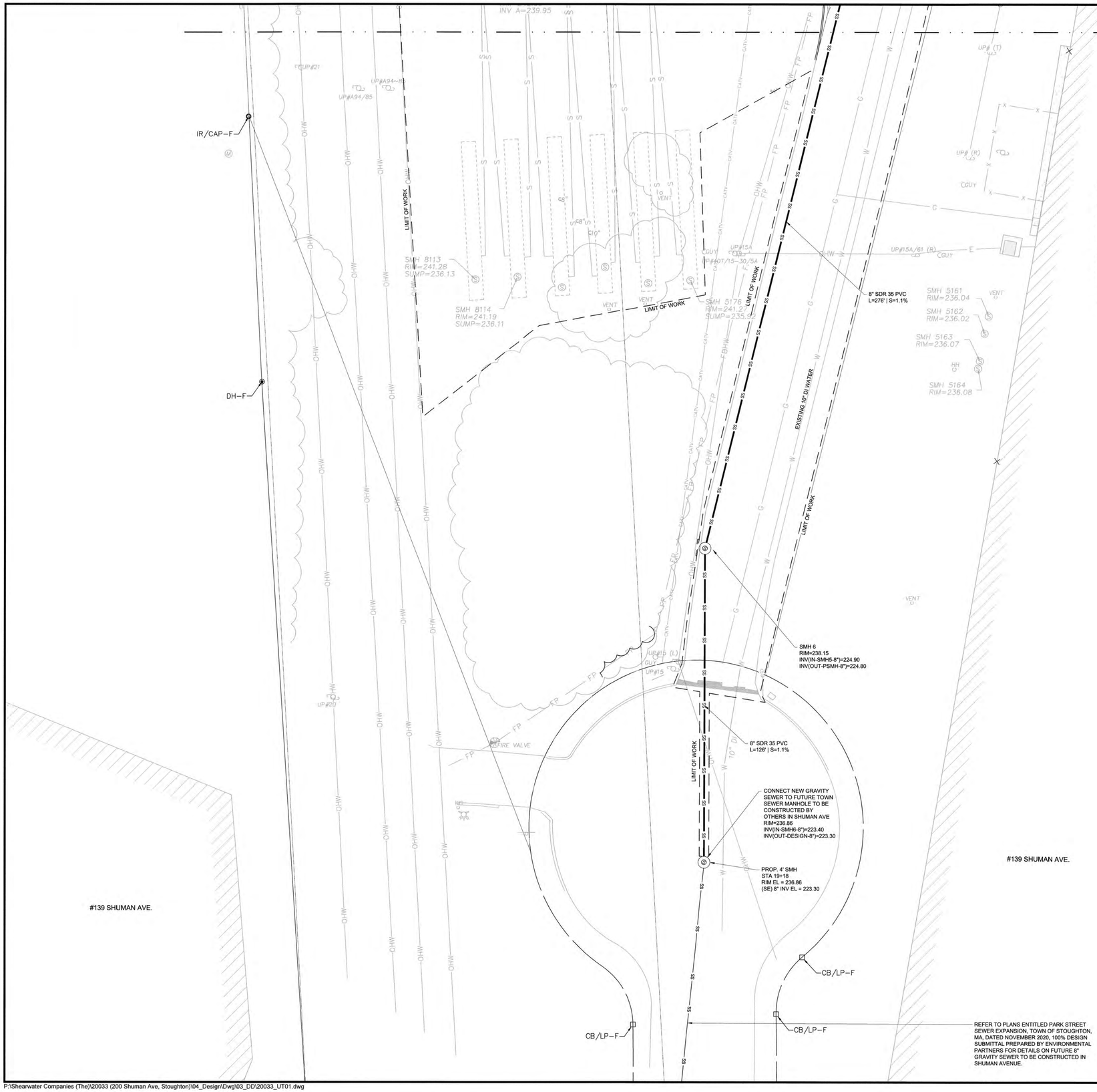
SHEET TITLE:

GRADING & DRAINAGE PLAN

SHEET NUMBER:

C405

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EXISTING SANITARY SEWER DISCHARGE ESTIMATE (PER TITLE V)			
USE	**GROSS FLOOR AREA/OCCUPANCY**	**RATE (GDP/SF OR GDP/PERSON)**	**DISCHARGE ESTIMATE**
MANCON: WAREHOUSE	16 EMPLOYEES/DAY	15 GDP/PERSON	**240**
GLOBE: MANUFACTURING	84 EMPLOYEES MAX	15 GDP/PERSON	**1,260**
		TOTAL ESTIMATED SEWAGE DISCHARGE	**1,500 GDP**
PROPOSED SANITARY SEWER DISCHARGE ESTIMATE (PER TITLE V)			
USE	**GROSS FLOOR AREA/OCCUPANCY**	**RATE (GDP/SF OR GDP/PERSON)**	**DISCHARGE ESTIMATE**
MANCON: WAREHOUSE	16 EMPLOYEES/DAY	15 GDP/PERSON	**240**
GLOBE: MANUFACTURING	140 EMPLOYEES MAX	15 GDP/PERSON	**2,100**
		TOTAL ESTIMATED SEWAGE DISCHARGE	**2,340 GDP**

NOTE: RECORDS INDICATE THAT THE EXISTING SAS WAS INSTALLED IN 1981 WITH THE (CURRENT OFFLINE) INDUSTRIAL DISPOSAL SYSTEM SIDE DESIGNED TO CARRY FLOW OF APPROXIMATELY 5,760 GALLONS/DAY AND THE DOMESTIC SYSTEM DESIGNED TO CARRY A FLOW OF 3,000 GALLONS/DAY FOR 200+ PEOPLE. THE TOTAL AVAILABLE CAPACITY IS 8,760 GALLONS/DAY.

SITE UTILITY NOTES

1. THESE NOTES SHALL APPLY TO ALL SUBSEQUENT SITE UTILITY PLAN SHEETS HEREIN.
2. ALL SEWER PIPES SHALL BE 8-INCH DIAMETER SDR 35 POLYVINYL CHLORIDE UNLESS OTHERWISE INDICATED.
3. ALL SEWER MANHOLES SHALL BE 4-FOOT INTERIOR DIAMETER PRECAST REINFORCED CONCRETE UNLESS OTHERWISE INDICATED.
4. FINAL GAS, ELECTRIC, AND TELECOMMUNICATIONS SERVICES SHALL BE COORDINATED WITH THEIR RESPECTIVE LOCAL PROVIDERS.
5. UNLESS OTHERWISE SPECIFIED ON THE PLANS, ALL WORK IS TO CONFORM TO STOUGHTON ENGINEERING ENGINEERING DEPARTMENT AND MASSACHUSETTS PLUMBING CODE FIRST, AND IF WORK IS NOT COVERED IN THE SPECIFICATIONS, IT IS TO CONFORM TO THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATION FOR HIGHWAYS AND BRIDGES, CURRENT EDITION.
6. THE SITE CONTRACTOR SHALL VERIFY THE LOCATION, SIZE, AND DEPTH OF EXISTING UTILITIES AND DRAINAGE INFRASTRUCTURE PRIOR TO TAPPING INTO, CROSSING, OR EXTENDING THEM. IF THE NEW WORK POSES A CONFLICT WITH EXISTING UTILITIES OR DRAINAGE, THE ENGINEER SHALL BE NOTIFIED PRIOR TO THE CONTRACTOR CONTINUING.
7. THE SITE CONTRACTOR SHALL KEEP ACCURATE AND NEAT TIES TO ALL SUBSURFACE UTILITIES. COPIES OF THESE TIES SHALL BE PROVIDED TO THE TOWN OF STOUGHTON AND THE SITE ENGINEER AT THE COMPLETION OF SITE WORK.
8. REFER TO PLUMBING PLANS BY OTHERS FOR PLUMBING IMPROVEMENTS WITHIN THE EXISTING BUILDING.
9. STOUGHTON ENGINEERING DEPARTMENT, DEPARTMENT OF PUBLIC WORKS , AND CONSERVATION SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO START OF CONSTRUCTION.
10. THE SITE CONTRACTOR SHALL OBTAIN, AT A MINIMUM, A WATER WORKS DEMOLITION PERMIT AND A WATER WORKS CONSTRUCTION PERMIT PRIOR TO DEMOLITION AND/OR INSTALLATION OF EXISTING AND PROPOSED WATER SERVICES SHOWN HEREON. CONTRACTOR TO VERIFY LOCATION AND SIZE OF EXISTING WATER MAIN IN FIELD PRIOR TO ORDERING VALVES AND FITTINGS AND INSTALLING WATER CONNECTIONS. CONTRACTOR TO NOTIFY STOUGHTON WATER DEPARTMENT WHEN VERIFYING EXISTING WATER MAIN TYPES, SIZES, LOCATIONS AND FOR INSPECTION PRIOR TO BACKFILL.
11. THE STOUGHTON WATER DEPARTMENT SHALL BE NOTIFIED A MINIMUM OF 72 HOURS PRIOR TO CONDUCTING A FIRE PUMP TEST.
12. ALL WATER SERVICE PIPE SHALL BE CEMENT-LINED, TAR-COATED CLASS 52 DUCTILE IRON, SUPPLIED BY U.S. PIPE AND FOUNDRY COMPANY, GRIFFIN PIPE COMPANY, OR EQUAL AS APPROVED BY THE STOUGHTON WATER DEPARTMENT.
13. WATER PIPE FITTINGS SHALL BE CEMENT-LINED DUCTILE IRON WITH INTERLOCKING OR MECHANICAL JOINT RESTRAINTS.
14. WATER PIPE JOINTS SHALL HAVE INTERLOCKING OR MECHANICAL JOINT RESTRAINTS.
15. WATER PIPE COUPLINGS SHALL BE SMITH BLAIR STYLE 441, DRESS STYLE 153, 360 OR ROMAN STYLE 501 WITH PLAIN, GRADE 27 RUBBER GASKETS AND BLACK, STEEL TRACK-HEAD BOLTS WITH NUTS.
16. WATER GATE VALVES SHALL MEET AWWA C-509, 200 PSI MINIMUM WORKING PRESSURE, RESILIENT SEATED, AND OPEN CLOCKWISE.
17. THRUST BLOCKS SHALL BE 3,000 PSI MINIMUM, 1-1/2, 470 CEMENT CONCRETE MASONRY.
18. SCHEDULE OF FINAL GRAVITY SEWER CONNECTION TO FUTURE TOWN SEWER MANHOLE IN SHUMAN AVENUE CUL-DE-SAC TO BE DETERMINED. SITE ENGINEER TO COORDINATE WITH STOUGHTON ENGINEERING DEPARTMENT AND BOARD OF HEALTH REGARDING TEMPORARY FORCE MAIN CONNECTION TO ON-SITE EXISTING SEPTIC GALLEY SYSTEM DURING CONSTRUCTION.

SITE UTILITY LEGEND	
W	PROPOSED WATER SERVICE OR MAIN
FP	PROPOSED FIRE PREVENTION SERVICE OR MAIN
SS	PROPOSED SEWER SERVICE OR MAIN
UGE	PROPOSED UNDERGROUND ELECTRICAL DUCT BANK
OHE	PROPOSED OVERHEAD PRIMARY ELECTRICAL SERVICE
CATV	PROPOSED TELECOMMUNICATIONS DUCT BANK
	PROPOSED FIRE HYDRANT
	PROPOSED WATER GATE VALVE
PIV	PROPOSED POST INDICATOR VALVE
	PROPOSED SEWER MANHOLE
HH	PROPOSED TELECOMMUNICATIONS HANDHOLE (36"x48")
	PROPOSED UTILITY POLE
	PROPOSED UTILITY POLE WITH RISER
E	PROPOSED PRIMARY ELECTRICAL VAULT (8'x14')
T	PROPOSED ELECTRICAL TRANSFORMER

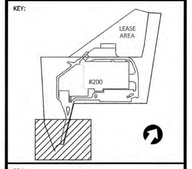
20 0 10 20 40 80

GRAPHIC SCALE 1 inch = 20 ft.

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PHONE: (508) 386-9895
WWW.SHEARWATERCOMPANIES.COM

KEY:



SEAL



PROPOSED BUILDING EXPANSION

200 SHUMAN AVENUE

STOUGHTON, MASSACHUSETTS 02072

OWNER/APPLICANT: T5C SHUMAN 200 LLC

REV	DATE	DESCRIPTION
3	4/27/2021	FINAL APPROVAL PLANS
2	3/25/2021	NO CHANGE
1	3/15/2021	REVISED PER TOWN COMMENTS

ISSUE TYPE: LOCAL APPROVAL

ISSUE DATE: FEBRUARY 10, 2021

PROJECT NUMBER: 20033

DRAWN BY: CM

CHECKED BY: JA

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SHEET TITLE:

UTILITY PLAN

SHEET NUMBER:

C500

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MATCHLINE C503

PROPOSED BUILDING EXPANSION
80,100± SF GFA

EXISTING BUILDING
158,000± SF GFA

EXISTING NGRID UTILITY POLE #15-33 TO BE REMOVED BY NGRID

EXISTING OVERHEAD 3Φ PRIMARY FEEDER TO BE REMOVED BY NGRID

EXISTING NGRID UTILITY POLE #15-32 TO BE REMOVED BY NGRID

NEW FLUSH GROUND MOUNTED CATV HANDHOLE

LIMIT OF WORK

10"x6" TEE, GATE VALVE, AND HYDRANT

PROVIDE UTILITY POLE RISERS

NEW NGRID UTILITY POLE #15-32 PROVIDED BY NGRID

NEW 3Φ OVERHEAD PRIMARY FEEDER PROVIDED BY NGRID

NEW UNDERGROUND CATV DUCTBANK

INTERCEPT EXISTING UNDERGROUND CATV CONDUIT DUCTBANK AND PROVIDE NEW FLUSH GROUND MOUNTED HANDHOLE

NEW NGRID UTILITY POLE #15-31A PROVIDED BY NGRID

EXISTING NGRID UTILITY POLE #15-31 TO REMAIN

EXISTING UNDERGROUND CATV CONDUIT DUCTBANK TO REMAIN

MONITORING WELL

2" CORPORATION STOP & ROADWAY BOX

EXISTING NGRID UTILITY POLE #15-1 TO REMAIN

EXISTING OVERHEAD 3Φ PRIMARY FEEDERS TO REMAIN

EXISTING OVERHEAD 3Φ PRIMARY FEEDER TO REMAIN

EXISTING NGRID UTILITY POLE #15-2 TO REMAIN

NEW 3Φ OVERHEAD PRIMARY FEEDER PROVIDED BY NGRID

EXISTING NGRID UTILITY POLE #15-3 TO REMAIN

EXISTING NGRID UTILITY POLE #15-4 TO REMAIN

EXISTING HYDRANT AND GATE VALVE TO REMAIN

EXISTING GAS SERVICE TO REMAIN

2" TYPE K DOMESTIC WATER SERVICE

3" DOMESTIC WATER SERVICE

4" SANITARY CONNECTION DI WITHIN 10' OF FDTN TRANSITION TO SDR 35 PVC THEREAFTER L=25' | S=2.0%

CONNECT TO EXISTING 8" AND 4" CLDI WATER MAINS WITH MECHANICAL JOINT COUPLINGS AND 45° BENDS

CAP EXISTING 4" OUTLET AT EXISTING SEPTIC TANK CORE NEW 4" OUTLET INV(OUT-SMH1-4")=236.81 (MATCH EXISTING INVERT)

POST INDICATOR VALVE

SMH 3
RIM=237.40
INV(IN-SMH2-8")=230.53
INV(OUT-SMH3-8")=230.43

4" SDR 35 PVC L=23' | S=1.5%

8" SDR 35 PVC L=55' | S=1.1%

SMH 1 (DOGHOUSE)
2.1' DROP
RIM=242.25
INV(IN-EST-4")=236.46
INV(IN-ESS-4")=236.50 (VIF)
INV(OUT-SMH-8")=232.84

8"x4" SDR 35 PVC WYE CONNECTION INV=233.06

8" SDR 35 PVC L=14±' | S=1.1%

NEW 8" CLDI FIRE PROTECTION MAIN

NEW 4" CLDI WATER MAIN

8"x6" TEE, GATE VALVE, AND HYDRANT

8"x8" CLDI TEE

SMH 2
RIM=239.35
INV(IN-SMH1-8")=233.23
INV(OUT-SMH3-8")=232.13

8" SDR 35 PVC L=67' | S=1.1%

SMH 4
RIM=238.05
INV(IN-SMH3-8")=229.68
INV(OUT-SMH5-8")=229.58

8" SDR 35 PVC L=138' | S=1.1%

SMH 5
RIM=239.25
INV(IN-SMH4-8")=228.05
INV(OUT-SMH6-8")=227.95

(2) 3" SCH 40 PVC TEMP. FORCE MAINS

TEMPORARY PACKAGE PUMP SYSTEM (E-ONE OR APPROVED EQUAL) WITH TEMPORARY POWER PROVIDED VIA OVERHEAD CONNECTION FROM EXISTING SERVICE POLE INV(IN-8"TEMP-SMH5)=228.05 INV(OUT-2-3"FM)=227.95

8" SDR 35 PVC L=25' | S=2.0%

CONNECT TO EXISTING 3" FORCE MAINS VIA 45° BENDS; CUT, CAP AND ABANDON EXISTING FORCE MAINS UPSTREAM OF CONNECTIONS

TEMP. 8" SDR 35 PVC GRAVITY OUTLET PIPE FROM SMH5 TO TEMP. PACKAGE PUMP SYSTEM INV(OUT-8")=228.55

PERMANENT 8" SDR 35 PVC GRAVITY OUTLET FROM SMH5 TO SMH6 (TO BE INSTALLED UPON COMPLETION OF TOWN SEWER IN SHUMAN AVENUE) INV(OUT-8")=228.55

INSET | TEMPORARY CONSTRUCTION-PHASE SEPTIC CONNECTION
SCALE: 1"=20'

MATCHLINE C502

MATCHLINE C500

REFERENCE NOTE

1. REFER TO SHEET C500 FOR SITE GRADING AND DRAINAGE NOTES.

SITE UTILITY LEGEND

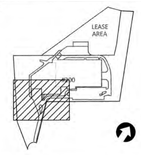
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	PROPOSED UTILITY POLE WITH RISER
E	PROPOSED PRIMARY ELECTRICAL VAULT (8'x14')
T	PROPOSED ELECTRICAL TRANSFORMER
P-TEMP	PROPOSED TEMPORARY POWER TO PACKAGE PUMP
SS-TEMP	PROPOSED TEMPORARY GRAVITY SEWER TO PACKAGE PUMP
FM	PROPOSED TEMPORARY FORCE MAIN
PS	PROPOSED TEMPORARY PACKAGE PUMP SYSTEM (SEPTIC)

20 0 10 20 40 80
GRAPHIC SCALE 1 inch = 20 ft.

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KEY:



SEAL



PROPOSED BUILDING EXPANSION

200 SHUMAN AVENUE
STOUGHTON, MASSACHUSETTS 02072

OWNER/APPLICANT: TSC SHUMAN 200 LLC

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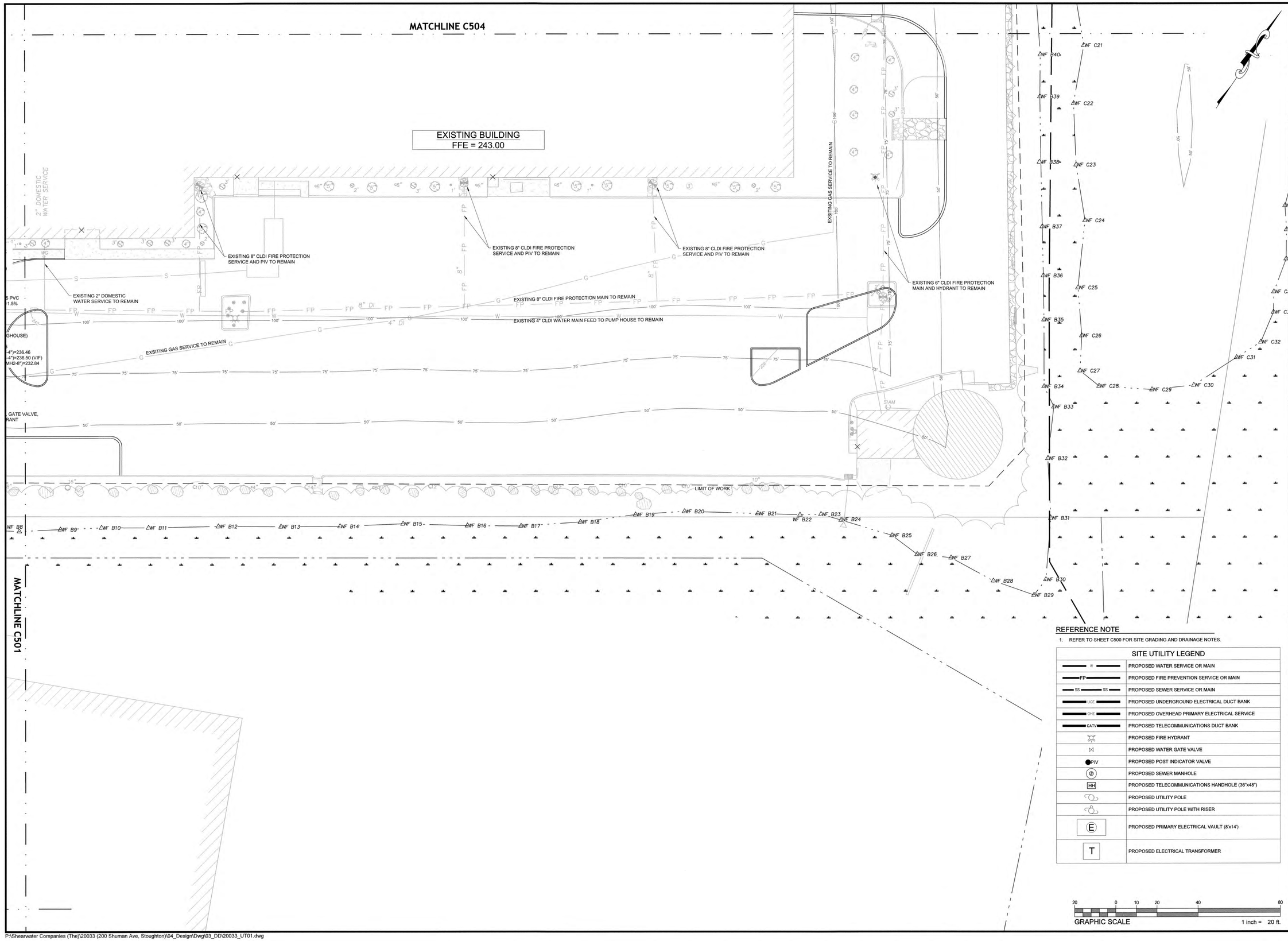
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SHEET TITLE: UTILITY PLAN

SHEET NUMBER: C501

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REFERENCE NOTE

1. REFER TO SHEET C500 FOR SITE GRADING AND DRAINAGE NOTES.

SITE UTILITY LEGEND

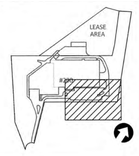
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	PROPOSED WATER GATE VALVE
PIV	PROPOSED POST INDICATOR VALVE
	PROPOSED SEWER MANHOLE
HH	PROPOSED TELECOMMUNICATIONS HANDHOLE (36"x48")
	PROPOSED UTILITY POLE
	PROPOSED UTILITY POLE WITH RISER
E	PROPOSED PRIMARY ELECTRICAL VAULT (8'x14')
T	PROPOSED ELECTRICAL TRANSFORMER

GRAPHIC SCALE 20 0 10 20 40 80 — 1 inch = 20 ft.

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SEAL



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OWNER/APPLICANT: TSC SHUMAN 200 LLC

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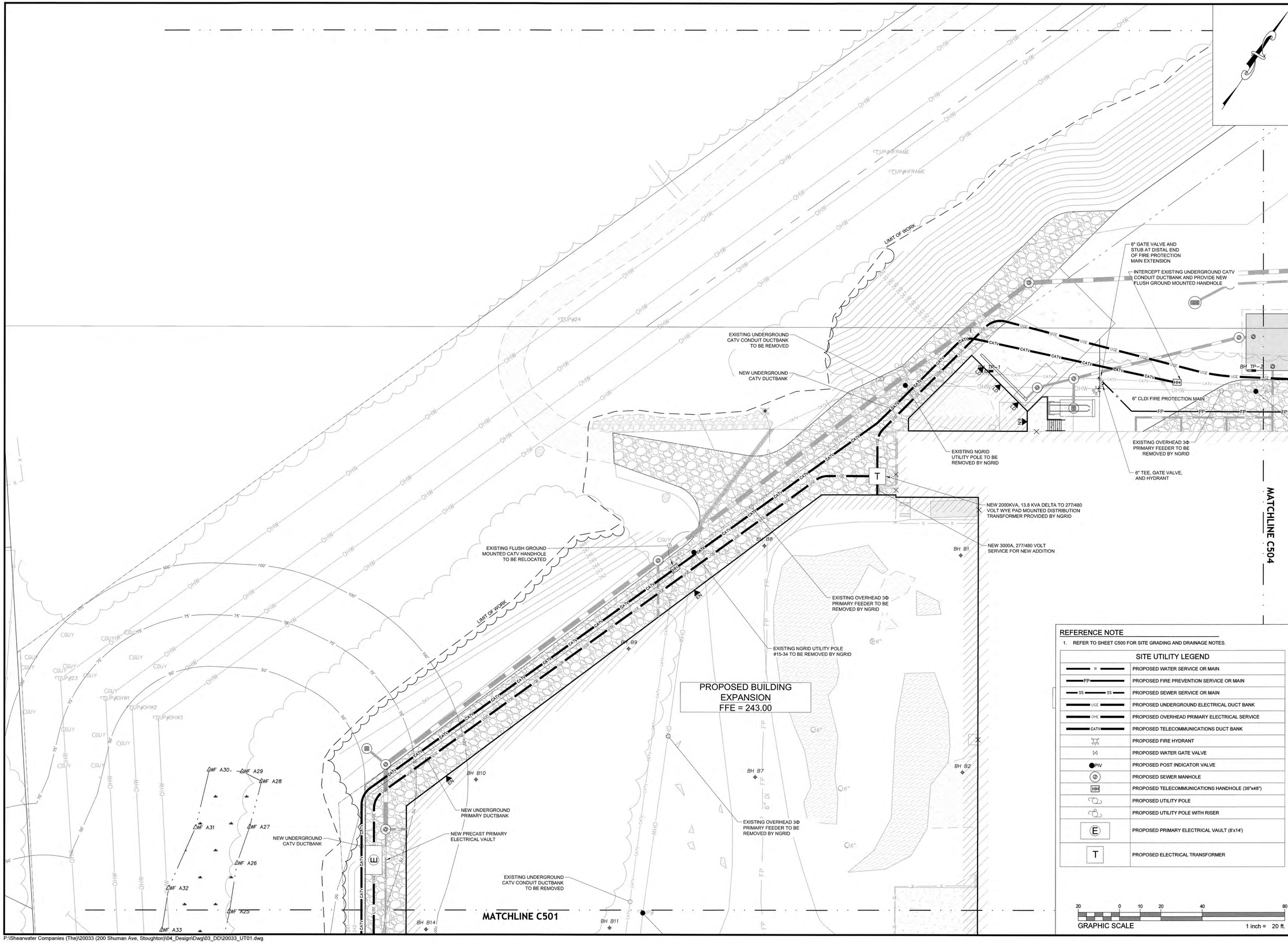
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SHEET TITLE: UTILITY PLAN

SHEET NUMBER: C502

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REFERENCE NOTE

1. REFER TO SHEET C500 FOR SITE GRADING AND DRAINAGE NOTES.

SITE UTILITY LEGEND

W	PROPOSED WATER SERVICE OR MAIN
FP	PROPOSED FIRE PREVENTION SERVICE OR MAIN
SS	PROPOSED SEWER SERVICE OR MAIN
UGE	PROPOSED UNDERGROUND ELECTRICAL DUCT BANK
OHE	PROPOSED OVERHEAD PRIMARY ELECTRICAL SERVICE
CATV	PROPOSED TELECOMMUNICATIONS DUCT BANK
	PROPOSED FIRE HYDRANT
	PROPOSED WATER GATE VALVE
PIV	PROPOSED POST INDICATOR VALVE
	PROPOSED SEWER MANHOLE
HH	PROPOSED TELECOMMUNICATIONS HANDHOLE (36"x48")
	PROPOSED UTILITY POLE
	PROPOSED UTILITY POLE WITH RISER
E	PROPOSED PRIMARY ELECTRICAL VAULT (8'x14')
T	PROPOSED ELECTRICAL TRANSFORMER

GRAPHIC SCALE 20 0 10 20 40 80 — 1 inch = 20 ft.

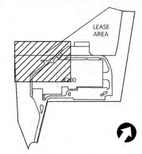
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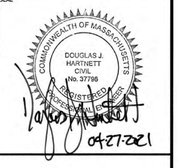
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CLIENT: THE SHEARWATER COMPANIES LLC
175 PARAMOUNT DRIVE
RAYNHAM, MA 02767
PHONE: (508) 386-9895
WWW.SHEARWATERCOMPANIES.COM

KEY:



SEAL



PROPOSED BUILDING EXPANSION

200 SHUMAN AVENUE
STOUGHTON, MASSACHUSETTS 02072

OWNER/APPLICANT: TSC SHUMAN 200 LLC

REV	DATE	DESCRIPTION
3	4/27/2021	FINAL APPROVAL PLANS
2	3/25/2021	NO CHANGE
1	3/15/2021	REVISED PER TOWN COMMENTS

ISSUE TYPE: LOCAL APPROVAL
ISSUE DATE: FEBRUARY 10, 2021
PROJECT NUMBER: 20033

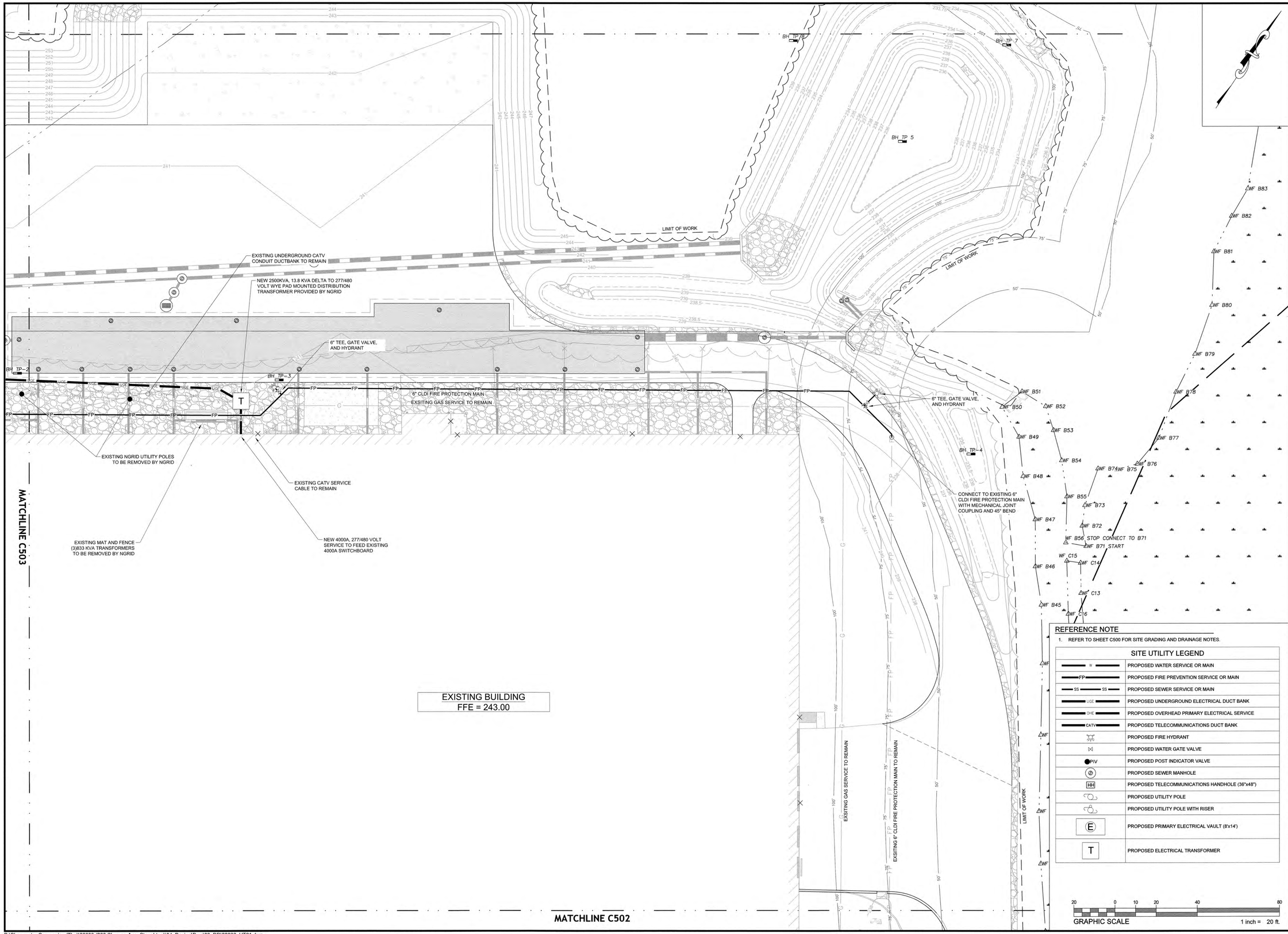
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SHEET TITLE: UTILITY PLAN

SHEET NUMBER: C503

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REFERENCE NOTE

1. REFER TO SHEET C500 FOR SITE GRADING AND DRAINAGE NOTES.

SITE UTILITY LEGEND

W	PROPOSED WATER SERVICE OR MAIN
FP	PROPOSED FIRE PREVENTION SERVICE OR MAIN
SS	PROPOSED SEWER SERVICE OR MAIN
UGE	PROPOSED UNDERGROUND ELECTRICAL DUCT BANK
OHE	PROPOSED OVERHEAD PRIMARY ELECTRICAL SERVICE
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E	PROPOSED PRIMARY ELECTRICAL VAULT (8'x14')
T	PROPOSED ELECTRICAL TRANSFORMER

20 0 10 20 40 80
GRAPHIC SCALE 1 inch = 20 ft.

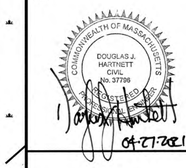
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KEY:



SEAL



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OWNER/APPLICANT: TSC SHUMAN 200 LLC

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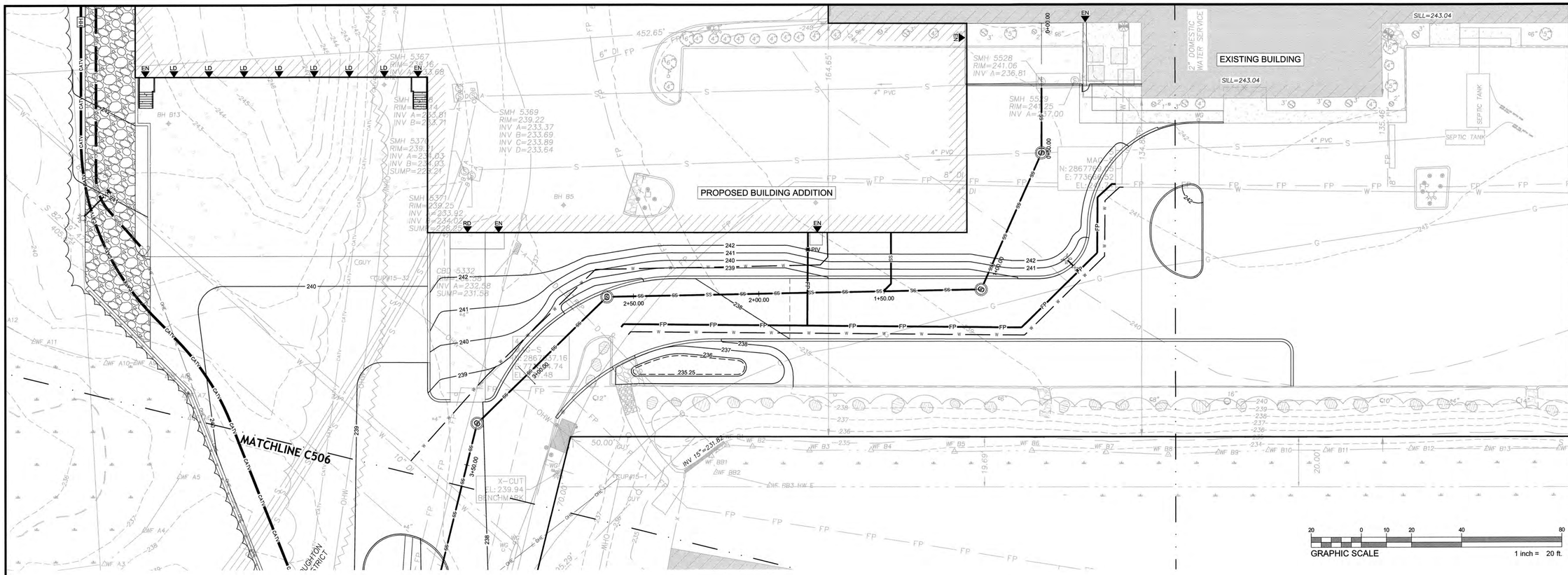
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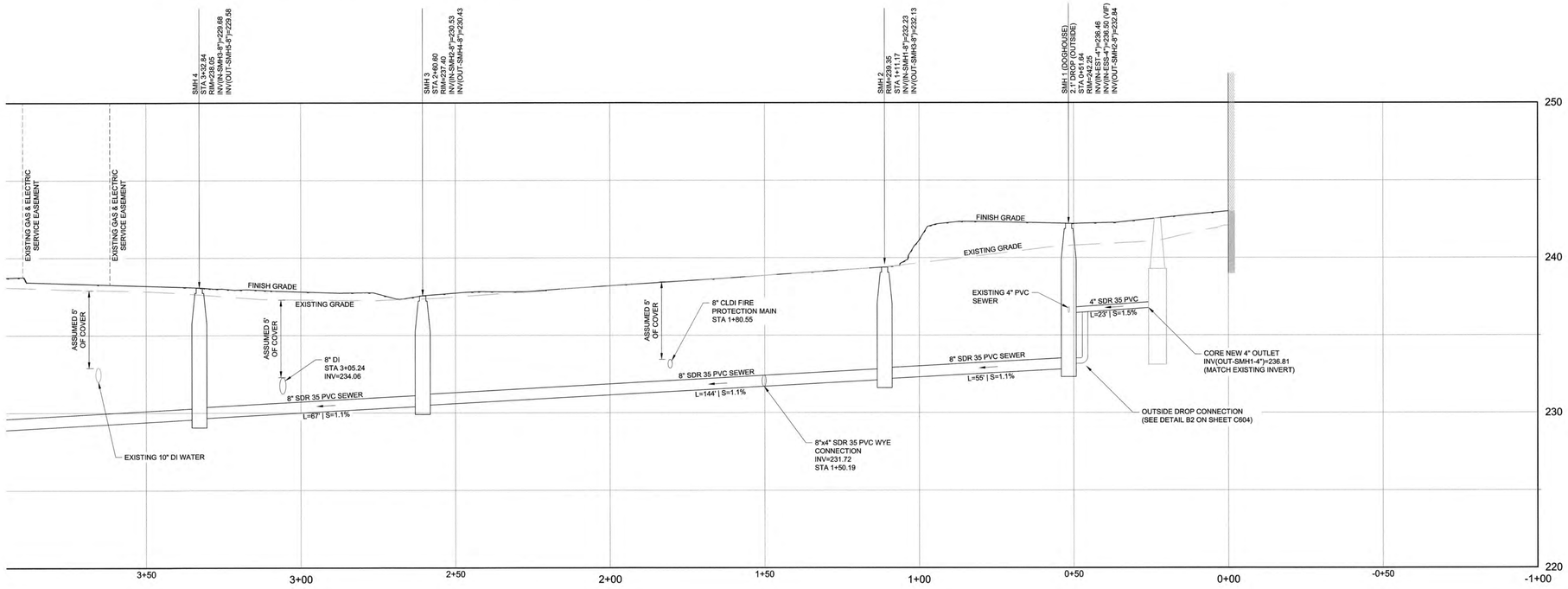
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SHEET TITLE: UTILITY PLAN

SHEET NUMBER: C504

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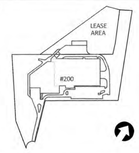


HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=4'

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CLIENT: THE SHEARWATER COMPANIES LLC
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SEAL



PROPOSED BUILDING EXPANSION

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ISSUE TYPE:
LOCAL APPROVAL

ISSUE DATE:
FEBRUARY 10, 2021

PROJECT NUMBER:
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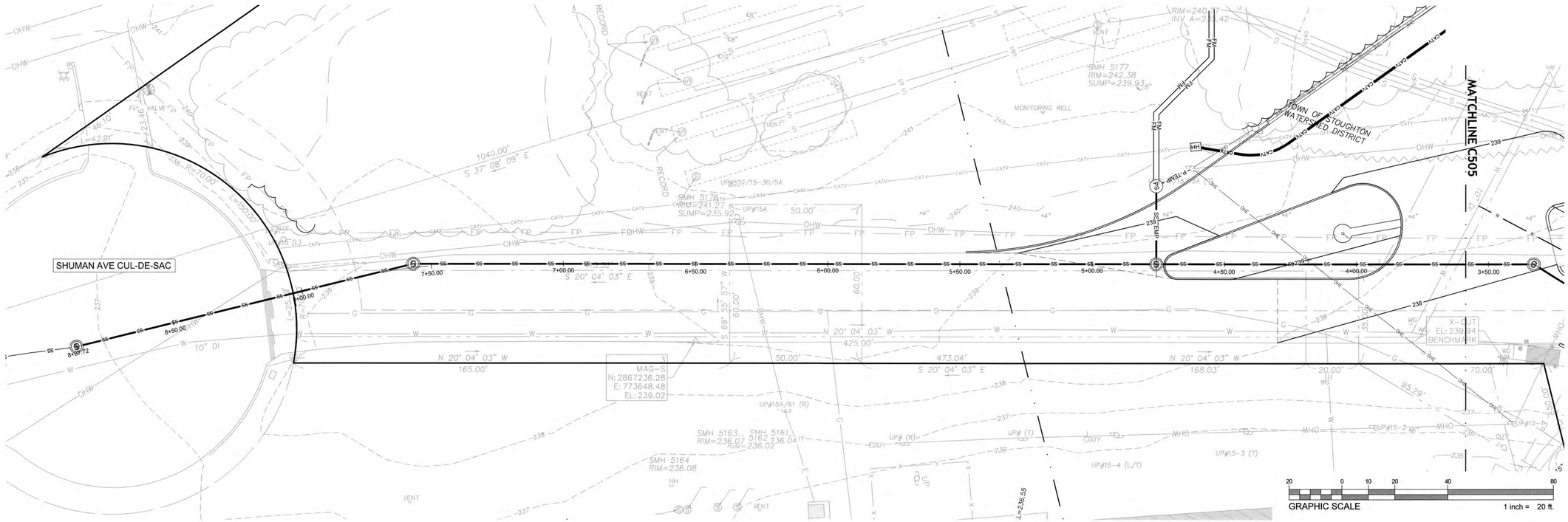
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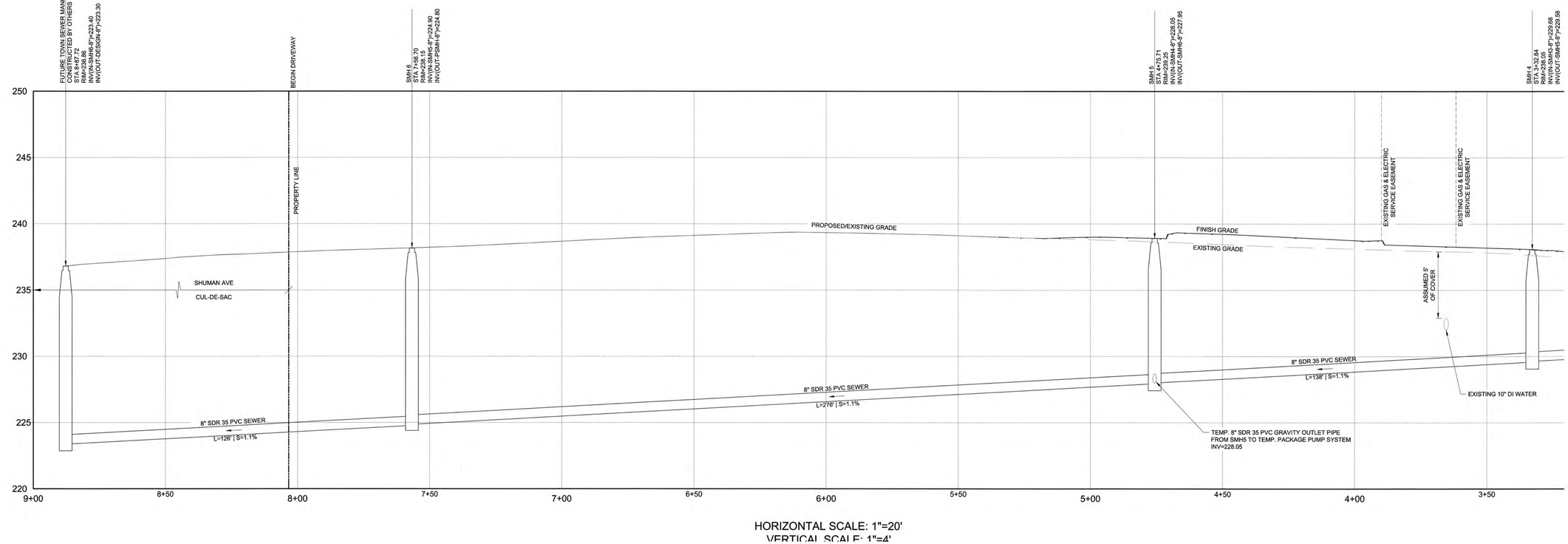
SANITARY SEWER PROFILE PLAN

SHEET NUMBER:

C505

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HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=4'

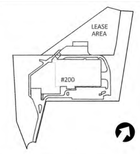
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PROPOSED BUILDING EXPANSION

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FEBRUARY 10, 2021

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20033

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SHEET TITLE:

SANITARY SEWER PROFILE PLAN

SHEET NUMBER:

C506

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BACKFILL MATERIAL SHALL BE WELL GRADED WITHIN THE SPECIFIED LIMITS. GRADATION OF MATERIALS SHALL BE DETERMINED IN ACCORDANCE WITH ASTM C 136.

GRANULAR FILL **(FOR OVER-EXCAVATION)** SHALL BE SAND-GRAVEL MIXTURE, GRADED WITHIN THE FOLLOWING LIMITS:

SIEVE SIZE	% PASSING BY WEIGHT
1-1/2 IN.	100
NO. 4	20-60
NO. 40	10-35
NO. 200	0-8

GRAVEL BEDDING **(FOR UTILITIES)** SHALL BE GRAVEL, CRUSHED QUARRY ROCK OR CRUSHED GRAVEL, FROM OFF-SITE SOURCES GRADED WITHIN THE FOLLOWING LIMITS:

SIEVE SIZE	% PASSING BY WEIGHT
1 IN.	100
3/4 IN.	90-100
3/8 IN.	20-55
NO. 4	0-10
NO. 8	0-5

STONE **(FOR UTILITIES)** SHALL BE A DURABLE, CRUSHED STONE OR GRAVEL FROM OFF-SITE SOURCES, GRADED WITHIN THE FOLLOWING LIMITS:

SIEVE SIZE	% PASSING BY WEIGHT
2-1/2 IN.	100
2 IN.	60-80
1-1/4 IN.	25-50
3/4 IN.	0

SELECT FILL SHALL BE A COARSE GRANULAR MATERIAL CONSISTING OF HARD, DURABLE, ANGULAR MATERIAL, GRADED WITHIN THE FOLLOWING LIMITS. MATERIAL PASSING THE NO. 40 SIEVE SHALL HAVE A PLASTICITY INDEX OF NOT MORE THAN 10 AND A LIQUID LIMIT NOT TO EXCEED 35%.

SIEVE SIZE	% PASSING BY WEIGHT
4 IN.	100
1 IN.	60-100
NO. 4	30-80
NO. 40	5-30
NO. 200	0-8

COMMON FILL (**IN LANDSCAPED AREAS**) SHALL BE BANK RUN SAND, GRAVEL, OR MIXTURE THEREOF, GRADED WITHIN THE FOLLOWING LIMITS:

SIEVE SIZE	% PASSING BY WEIGHT
6 IN.	100
NO. 4	30-95
NO. 200	0-15

DENSE GRADED CRUSHED STONE SHALL CONSIST OF CRUSHER-RUN COARSE AGGREGATES OF CRUSHED STONE OR GRAVEL AND FINE AGGREGATES OF NATURAL SAND OR STONE SCREENINGS, UNIFORMLY PRE-MIXED WITH A PREDETERMINED QUANTITY OF WATER. COARSE AGGREGATE SHALL HAVE A PERCENTAGE OF WEAR OF NOT MORE THAN 45 BY THE LOS ANGELES TEST.

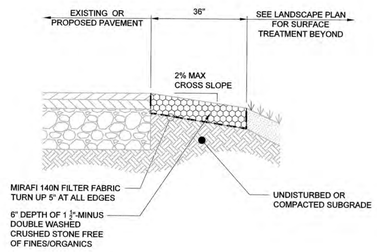
THE COMPOSITE MATERIAL SHALL BE FREE FROM CLAY, LOAM AND ALL OTHER PLASTIC MATERIALS, AND SHALL CONFORM TO THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE DESIGNATION	PERCENTAGE BY MASS PASSING SQUARE MESH SIEVES
2 inches	100
1 1/2 inches	70-100
3/4 inch	50-85
No. 4	30-55
No. 50	8-24
No. 200	3-10

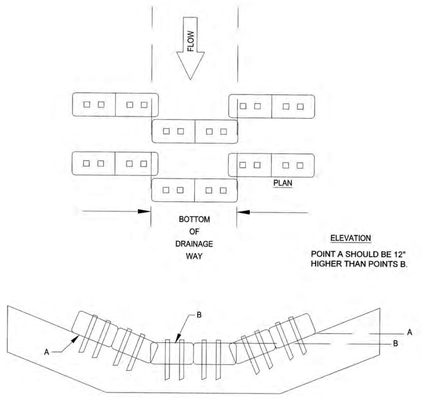
SAMPLING AND TESTING SHALL BE IN ACCORDANCE WITH THE FOLLOWING STANDARD AASHTO METHODS:

- SIEVE ANALYSIS: AASHTO T27
- PASSING No. 200 SIEVE: AASHTO T11

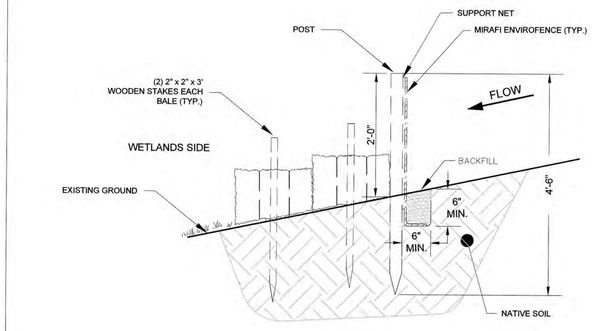
BACKFILL MATERIAL GRADATION REQUIREMENTS
NOT TO SCALE **B3**



CRUSHED STONE FILTER STRIP
NOT TO SCALE **C2**

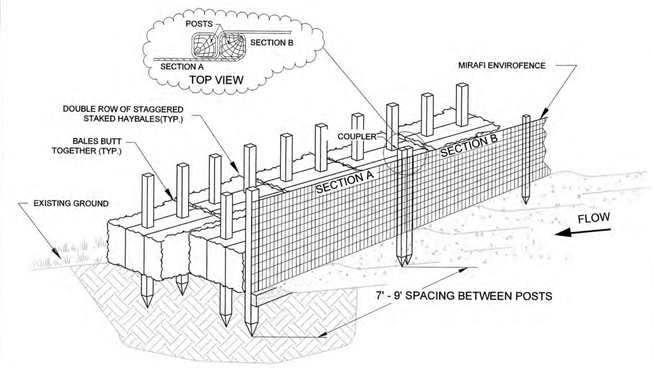


DOUBLEROW HAYBALE CHECK DAM
NOT TO SCALE **B2**

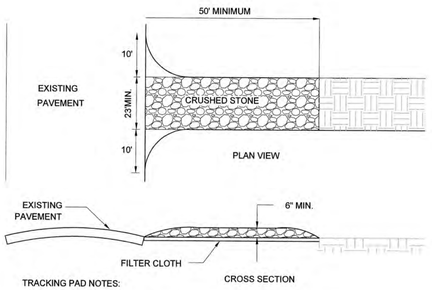


LAY THE TOE-IN FLAP OF FABRIC INTO THE UNDISTURBED BOTTOM OF TRENCH, BACKFILL THE TRENCH AND TAMP THE SOIL. PLACE HAYBALES NEXT TO THE FILTER FABRIC.

TOE-IN METHODS



HAYBALE AND SILTATION CONTROL FENCE
NOT TO SCALE **B1**



TRACKING PAD NOTES:

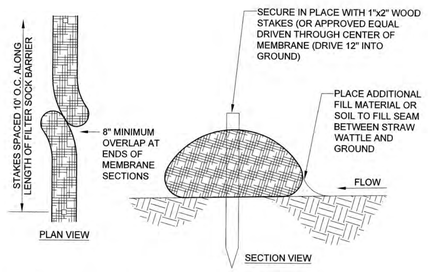
STONE SIZE - USE 2" CRUSHED STONE OR GREATER

FILTER CLOTH - SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.

SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHOULD BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM SHOULD BE PERMITTED.

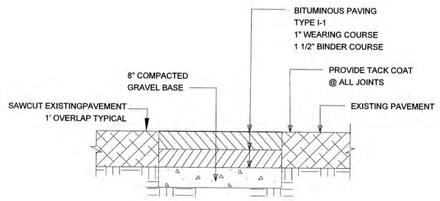
MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH PREVENTS TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY OR SITE. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANING OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

CONSTRUCTION ANTI-TRACKING PAD
NOT TO SCALE **A4**

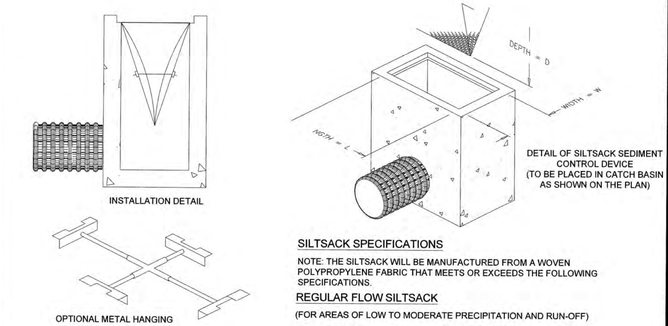


NOTES
1. WATTLES SHALL BE 12" MINIMUM DIAMETER.
2. WATTLES SHALL BE INSTALLED PRIOR TO START OF CONSTRUCTION ACTIVITIES AND LEFT IN PLACE TO BIODEGRADE AFTER FINAL STABILIZATION.

STRAW WATLE EROSION CONTROL BARRIER
NOT TO SCALE **A3**



PAVEMENT MATCH SAWCUT
NOT TO SCALE **A2**



FOR APPROVAL SUBMIT TYPE OF SILTSACK DEPENDING ON THE APPLICATION, THESILTSACK CAN BE MADE FROM EITHER ONE OF THE ABOVE FABRICS WITH AN OIL-ABSORBANT PILLOW INSERT OR, MADE COMPLETELY FROM AN OIL-ABSORBANT SILTSACK , WITH A WOVEN PILLOW INSERT.

SILTSACK SPECIFICATIONS

NOTE: THE SILTSACK WILL BE MANUFACTURED FROM A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS.

REGULAR FLOW SILTSACK

(FOR AREAS OF LOW TO MODERATE PRECIPITATION AND RUN-OFF)

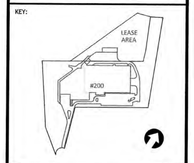
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	120 LBS
MULLEN BURST	ASTM D-3786	800 PSI
TRAPEZOID TEAR	ASTM D-4533	120 LBS
UV RESISTANCE	ASTM D-4355	80 %
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	0.55 SEC -1

SILTSACK CATCH BASIN INSERT
NOT TO SCALE **A1**

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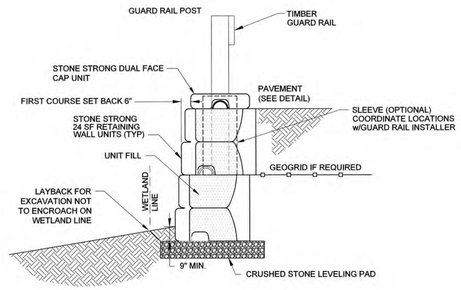
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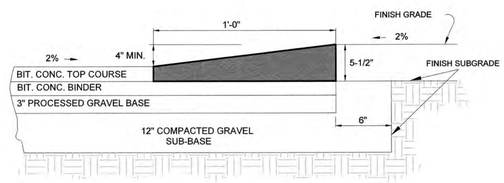
SHEET TITLE: DETAIL SHEET

SHEET NUMBER: C600

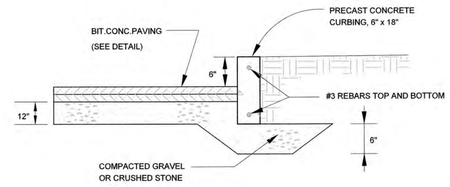
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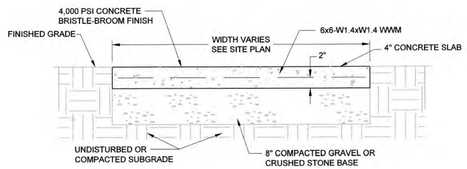
SEGMENTAL BLOCK RETAINING WALL
NOT TO SCALE **C3**



CAPE COD BERM
NOT TO SCALE **C2**

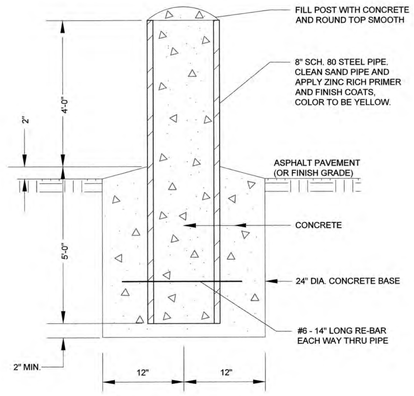


VERTICAL CONCRETE CURB
NOT TO SCALE **C1**

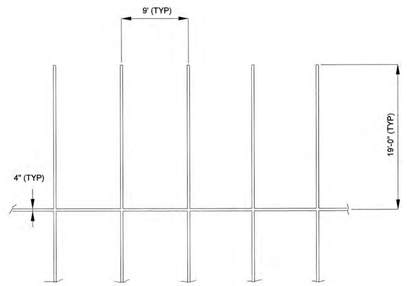


CROSS PITCH = 1/4" PER FOOT MAX.
NOTE: PROVIDE EXPANSION JOINTS AT 25' O.C.
PROVIDE CONTROL JOINTS AT 5' O.C.

CONCRETE SIDEWALK
NOT TO SCALE **B4**

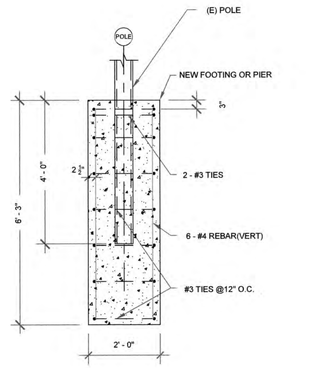


6" CONCRETE FILLED STEEL PIPE BOLLARD
NOT TO SCALE **B3**

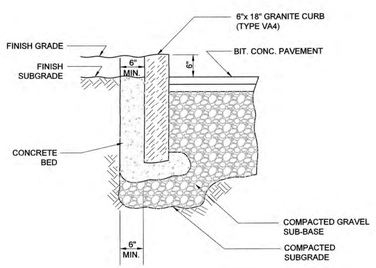


STRIPING SHALL BE 4" WIDE STRAIGHT LINES OF WHITE TRAFFIC PAINT, TO BE INSTALLED AS SHOWN ON LAYOUT AND MATERIALS PLAN

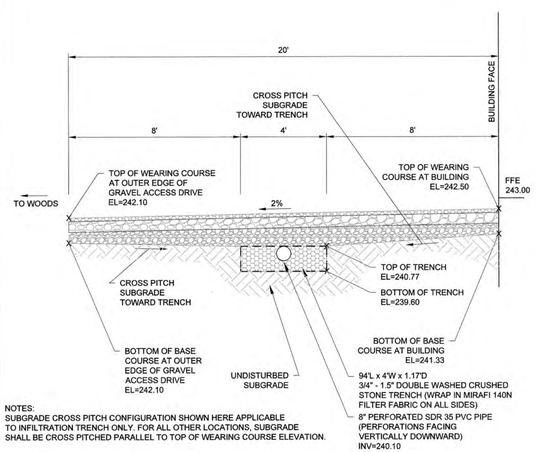
STANDARD PARKING STRIPING
NOT TO SCALE **B2**



FLAGPOLE BASE
NOT TO SCALE **B1**

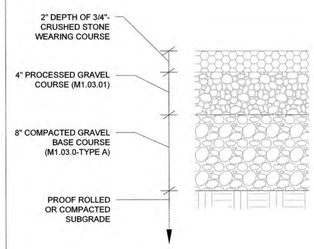


VERTICAL GRANITE CURB
NOT TO SCALE **A4**



NOTES:
SUBGRADE CROSS PITCH CONFIGURATION SHOWN HERE APPLICABLE TO INFILTRATION TRENCH ONLY. FOR ALL OTHER LOCATIONS, SUBGRADE SHALL BE CROSS PITCHED PARALLEL TO TOP OF WEARING COURSE ELEVATION.

PERFORATED PIPE INFILTRATION TRENCH
NOT TO SCALE **A3**

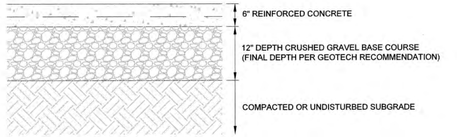


GRAVEL FOR BASE COURSE SHALL CONSIST OF INERT MATERIAL THAT IS HARD, DURABLE STONE AND SAND; FREE OF LOAM AND CLAY SURFACE COATINGS AND DELETERIOUS MATERIALS; AND SHALL CONFORM TO THE FOLLOWING GRADATION REQUIREMENTS:

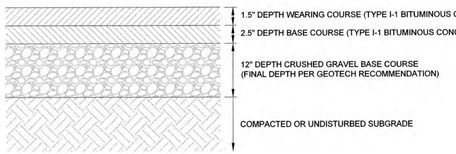
SIEVE SIZE	PERCENT PASSING
3"	100
1½"	60-100
¾"	55-95
#4	33-68
#20	15-43
#80	2-22
#200	0-10
0.02 mm	0-3

NOTES:
1. GRAVEL SHALL BE PLACED IN TWO LAYERS NOT GREATER THAN 6 INCHES IN DEPTH, COMPACTED MEASUREMENT, AND COMPACTED WITH A STEEL-WHEELED ROLLER WEIGHING NO LESS THAN 10 TONS.
2. OVERSIZE STONES SHALL BE REMOVED PRIOR TO COMPACTION.

GRAVEL ACCESS PATH
NOT TO SCALE **A2**



REINFIRCED CONCRETE PAVEMENT



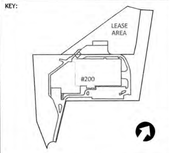
BITUMINOUS CONCRETE PAVEMENT

PAVEMENT SECTIONS
NOT TO SCALE **A1**

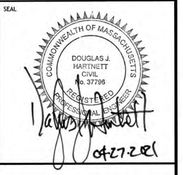
HIGHPOINT ENGINEERING, INC.
LAND PLANNING
PERMIT EXPEDITING
CIVIL ENGINEERING
CONSULTING
CANTON CORPORATE PLACE
45 DAN ROAD, SUITE 140
CANTON, MA 02021
www.HighpointEng.com

CLIENT: THE SHEARWATER COMPANIES LLC
175 PARAMOUNT DRIVE
RAYNHAM, MA 02767
PHONE: (508) 386-9895
WWW.SHEARWATERCOMPANIES.COM

KEY:



SEAL



PROPOSED BUILDING EXPANSION
200 SHUMAN AVENUE
STOUGHTON, MASSACHUSETTS 02072

OWNER/APPLICANT: TSC SHUMAN 200 LLC

REV	DATE	DESCRIPTION
3	4/27/2021	FINAL APPROVAL PLANS
2	3/25/2021	NO CHANGE
1	3/15/2021	REVISED PER TOWN COMMENTS

ISSUE TYPE: LOCAL APPROVAL
ISSUE DATE: FEBRUARY 10, 2021
PROJECT NUMBER: 20033

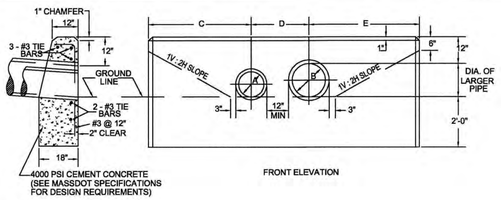
DRAWN BY: CM
CHECKED BY: JA

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SHEET TITLE: DETAIL SHEET

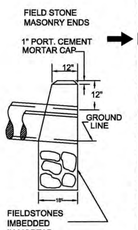
SHEET NUMBER: C601

P:\Shearwater Companies (The)\20033 (200 Shuman Ave, Stoughton)\04_Design\Dwg\03_DD\20033_DS01.dwg



FRONT ELEVATION

END ELEVATION

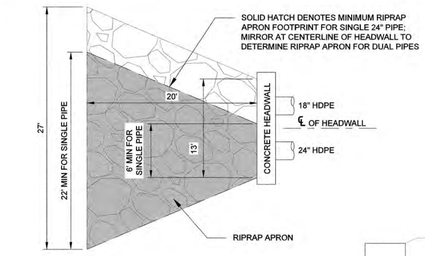


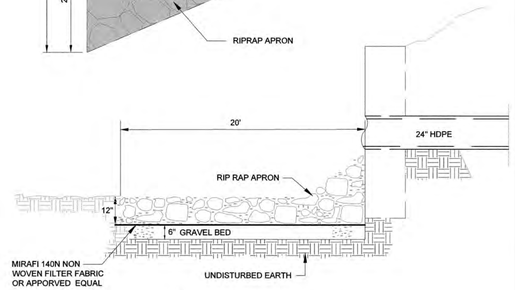
END ELEVATION

DESIGN NO.	DIAMETER (IN.) A	B	LENGTHS C	D	E	MASONRY (CY)	STEEL (LBS)	TRENCH EXCAV. 1'-0" DEPTH (CF)
1	12	12	3'-9"	2'-2"	3'-9"	1.89	37	40.85
2	12	15	4'-3"	2'-4"	4'-5"	2.27	42	45.50
3	12	18	4'-9"	2'-6"	5'-0"	2.66	48	49.88
4	12	21	5'-4"	2'-8"	5'-8"	3.12	54	54.85
5	12	24	5'-9"	2'-10"	6'-3"	3.54	59	58.91
6	12	30	6'-9"	3'-0"	7'-6"	4.48	71	67.38
7	15	15	4'-5"	2'-6"	4'-5"	2.32	41	46.66
8	15	18	4'-11"	2'-8"	5'-0"	2.72	48	51.03
9	15	21	5'-5"	2'-10"	5'-8"	3.16	54	55.72
10	15	24	5'-11"	3'-0"	6'-3"	3.60	60	60.10
11	15	30	6'-11"	3'-2"	7'-6"	4.54	72	68.53
12	18	18	5'-0"	2'-8"	5'-0"	2.72	48	51.35
13	18	21	5'-7"	2'-10"	5'-8"	3.17	52	56.28
14	18	24	6'-0"	3'-0"	6'-3"	3.58	60	60.38
15	18	30	7'-0"	3'-2"	7'-6"	4.53	72	68.85
16	21	21	5'-8"	3'-0"	5'-8"	3.20	53	57.19
17	21	24	6'-2"	3'-4"	6'-3"	3.69	61	62.13
18	21	30	7'-2"	3'-6"	7'-6"	4.65	73	70.60
19	24	24	6'-3"	3'-4"	6'-3"	3.67	61	62.40
20	24	30	7'-3"	3'-8"	7'-6"	4.69	74	64.47
21	30	30	7'-6"	4'-0"	7'-6"	4.76	75	73.50

PRECAST CONCRETE HEADWALL FOR DUAL-PIPE OUTFALLS — C3

NOT TO SCALE



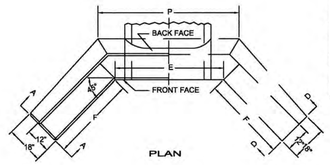


NOTES:
1. MEDIAN STONE SIZE = 8"
2. LARGEST STONE IN MIX SHALL BE 12"

RIPRAP APRON AT DUAL-PIPE OUTFALL TO SURFACE BASON — C2

NOT TO SCALE

NOTE:
1. FOR DESCRIPTION, MATERIALS AND CONSTRUCTION METHOD, SEE STANDARD SPECIFICATIONS.
2. ALL CONCRETE DIMENSIONS SHOWN ARE MINIMUM.
3. PAYMENTS WILL BE BASED ON THE QUANTITIES SHOWN IN THE ACCOMPANYING TABLE.

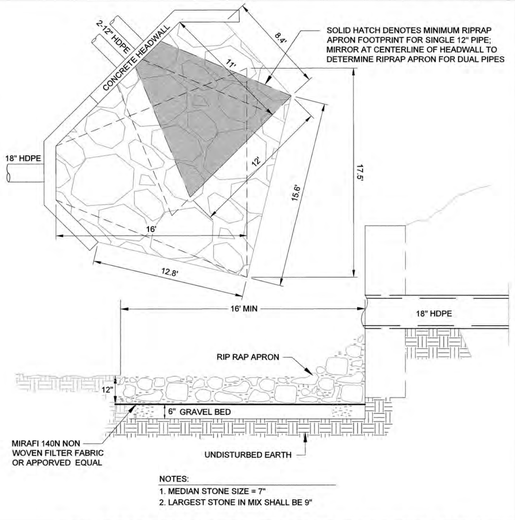


PLAN

1V:1.5H AND 1V:2H SLOPES D	E	G	H	J	L	N	P	F	1V:1.5H SLOPE CONC MASONRY CY	STEEL LBS	1V:2H SLOPE F	CONC MASONRY CY	STEEL LBS	TRENCH EXCAV. FOR 12 SLOPE FOR 1'-0" DEPTH CU. FT.
30"	4'-0"	4'-0"	5'-6"	3'-8"	1'-8"	2'-0"	5'-3"	3'-0"	2.60	45	4'-3"	3.16	54	55.16
36"	4'-6"	4'-3"	6'-0"	4'-0"	1'-8"	2'-3"	5'-11"	3'-6"	3.35	54	5'-0"	4.15	64	64.36
42"	5'-0"	4'-6"	6'-6"	4'-6"	1'-10"	2'-6"	6'-6"	4'-0"	4.20	59	5'-9"	5.25	70	73.70
48"	5'-6"	4'-9"	7'-0"	5'-0"	2'-0"	2'-9"	7'-2"	4'-6"	5.19	65	6'-6"	6.50	83	83.96
54"	6'-0"	5'-0"	7'-6"	5'-6"	2'-2"	3'-0"	7'-10"	5'-0"	6.26	73	7'-3"	7.88	93	94.46
60"	6'-6"	5'-3"	8'-0"	6'-0"	2'-4"	3'-3"	8'-6"	5'-6"	7.43	85	8'-0"	9.37	106	105.30
72"	7'-6"	5'-9"	9'-0"	7'-0"	2'-8"	3'-9"	9'-6"	6'-6"	10.25	98	9'-6"	12.99	128	128.52
84"	8'-6"	6'-3"	10'-0"	8'-0"	3'-0"	4'-3"	11'-0"	7'-6"	13.49	120	11'-0"	17.32	154	153.88

PRECAST CONCRETE HEADWALL FOR UDS OUTFALL — B3

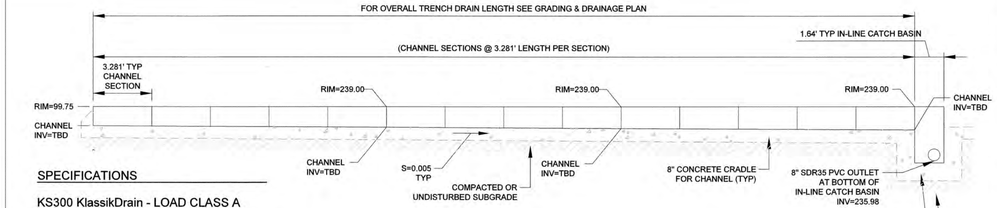
NOT TO SCALE



NOTES:
1. MEDIAN STONE SIZE = 7"
2. LARGEST STONE IN MIX SHALL BE 9"

PRECAST CONCRETE HEADWALL FOR UDS OUTFALL — B2

NOT TO SCALE



KS300 TRENCH DRAIN SYSTEM PROFILE

SPECIFICATIONS

KS300 KlassikDrain - LOAD CLASS A

GENERAL
THE SURFACE DRAINAGE SYSTEM SHALL BE POLYMER CONCRETE KS300 CHANNEL SYSTEM WITH STAINLESS STEEL EDGE RAILS AS MANUFACTURED BY ACO POLYMER PRODUCTS, INC.

MATERIALS
CHANNELS SHALL BE MANUFACTURED FROM POLYESTER RESIN POLYMER CONCRETE WITH AN INTEGRALLY CAST-IN STAINLESS STEEL EDGE RAIL. MINIMUM PROPERTIES OF POLYMER CONCRETE WILL BE AS FOLLOWS:

COMPRESSIVE STRENGTH:	14,000 PSI
FLEXURAL STRENGTH:	4,000 PSI
TENSILE STRENGTH:	1,500 PSI
WATER ABSORPTION:	0.07%
FROST PROOF	YES
DILUTE ACID AND ALKALI RESISTANT	YES
B117 SALT SPRAY TEST COMPLIANT	YES

THE SYSTEM SHALL BE 12" (300mm) NOMINAL INTERNAL WIDTH WITH A 14.2" (390mm) OVERALL WIDTH AND A BUILT-IN SLOPE OF 0.5%. CHANNEL INVERT SHALL HAVE DEVELOPED "V" SHAPE. ALL CHANNELS SHALL BE INTERLOCKING WITH A MALE/FEMALE JOINT.

THE COMPLETE DRAINAGE SYSTEM SHALL BE BY ACO POLYMER PRODUCTS, INC. ANY DEVIATION OR PARTIAL SYSTEM DESIGN AND/OR IMPROPER INSTALLATION WILL VOID ANY AND ALL WARRANTIES PROVIDED BY ACO POLYMER PRODUCTS, INC.

CHANNEL SHALL WITHSTAND LOADING TO PROPER LOAD CLASS AS OUTLINED BY EN 1433. GRATE TYPE SHALL BE APPROPRIATE TO MEET THE SYSTEM LOAD CLASS SPECIFIED AND INTENDED APPLICATION. GRATES SHALL BE SECURED USING 'QUICKLOK' BOLTLESS LOCKING SYSTEM. CHANNEL AND GRATE SHALL BE CERTIFIED TO MEET THE SPECIFIED EN 1433 LOAD CLASS. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

K3-903S CATCH BASIN - LOAD CLASS E

GENERAL
THE CATCH BASIN SHALL BE ACO DRAIN K3-903S SERIES MADE FROM POLYMER CONCRETE WITH A CAST-IN STAINLESS STEEL RAIL AS MANUFACTURED BY ACO POLYMER PRODUCTS, INC.

MATERIALS
POLYMER CONCRETE SHALL HAVE MATERIAL PROPERTIES OF:

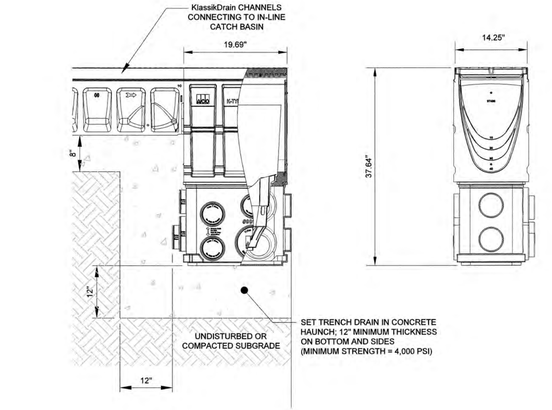
COMPRESSIVE STRENGTH:	14,000PSI
FLEXURAL STRENGTH:	3,600PSI
TENSILE STRENGTH:	1,500PSI
WATER ABSORPTION:	0.07%
FROST PROOF:	YES
DILUTE ACID AND ALKALI RESISTANT:	YES
B117 SALT SPRAY TEST COMPLIANT:	YES

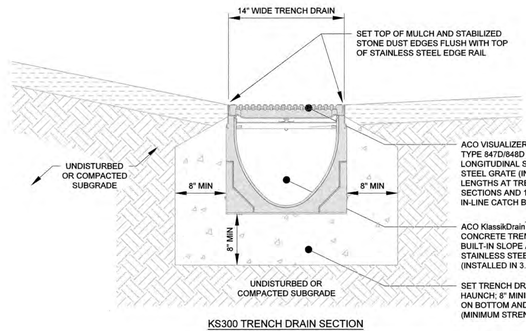
THE K3-903S SERIES CATCH BASIN COMPRISING OF TOP SECTION, QUICKLOK GRATE, SHORT BASE AND TRASH BUCKET SHALL ACCEPT 12" ACO DRAIN TRENCH DRAIN MODEL KS300 IN SIDES AS SHOWN.

THE CATCH BASIN SHALL BE 19.69" (500mm) IN LENGTH AND 14.25" (362mm) IN WIDTH. K3-903S CATCH BASIN DEPTH IS 37.64" (956mm).

THE COMPLETE CATCH BASIN AND TRENCH DRAINAGE SYSTEM SHALL BE BY ACO POLYMER PRODUCTS, INC. ANY DEVIATION OR PARTIAL SYSTEM DESIGN AND/OR IMPROPER INSTALLATION WILL VOID ANY AND ALL WARRANTIES PROVIDED BY ACO POLYMER PRODUCTS, INC.

K3-903S SERIES CATCH BASIN SHALL WITHSTAND LOADING TO PROPER LOAD CLASS AS OUTLINED BY EN 1433. GRATE SHALL BE HELD IN PLACE WITH THE QUICKLOK SYSTEM. CATCH BASIN, TRENCH CHANNEL AND GRATE SHALL BE INDEPENDENTLY CERTIFIED TO MEET THE SPECIFIED EN 1433 LOAD CLASS. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

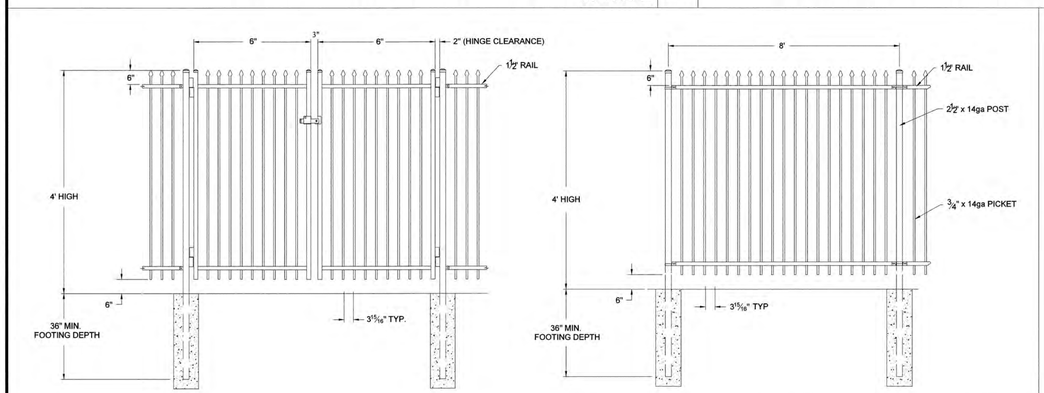




KS300 TRENCH DRAIN SECTION

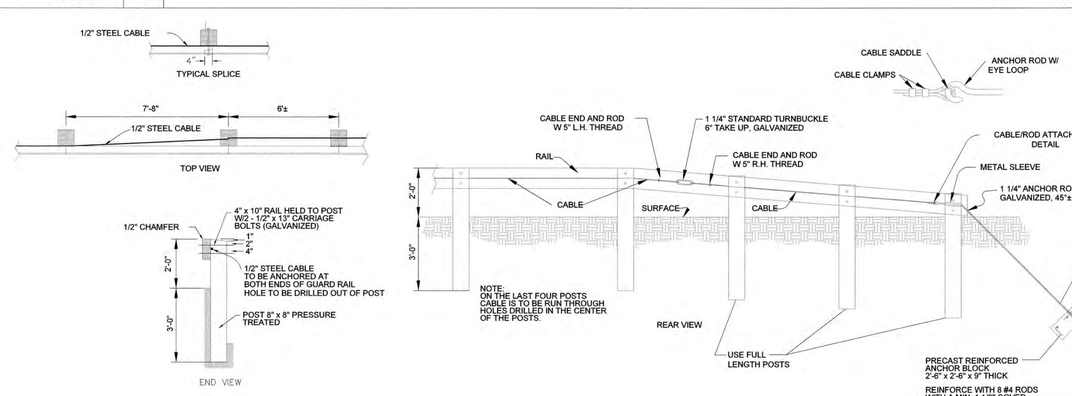
TRENCH DRAIN — B1

NOT TO SCALE



TYPICAL COMMERCIAL ALUMINIUM GATE — A2

NOT TO SCALE



TMIBER GUARDRAIL — A1

NOT TO SCALE

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PERMIT EXPEDITING
CIVIL ENGINEERING
CONSULTING
CANTON CORPORATE PLACE
45 DAN ROAD, SUITE 140
CANTON, MA 02021
www.HighpointEng.com

CLIENT: THE SHEARWATER COMPANIES LLC
175 PARAMOUNT DRIVE
RAYNHAM, MA 02767
PHONE: (508) 386-9895
WWW.SHEARWATERCOMPANIES.COM

KEY:



SEAL



PROPOSED BUILDING EXPANSION
200 SHUMAN AVENUE
STOUGHTON, MASSACHUSETTS 02072
OWNER/APPLICANT: TSC SHUMAN 200 LLC

REV	DATE	DESCRIPTION
3	4/27/2021	FINAL APPROVAL PLANS
2	1/25/2021	NO CHANGE
1	3/15/2021	REVISED PER TOWN COMMENTS

ISSUE TYPE:
LOCAL APPROVAL

ISSUE DATE:
FEBRUARY 10, 2021

PROJECT NUMBER:
20033

DRAWN BY: CM

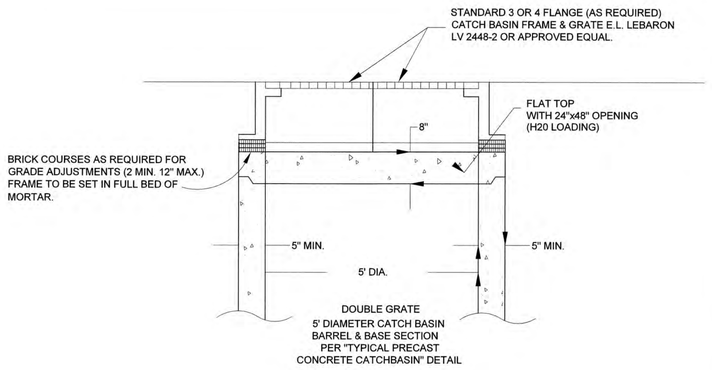
CHECKED BY: JA

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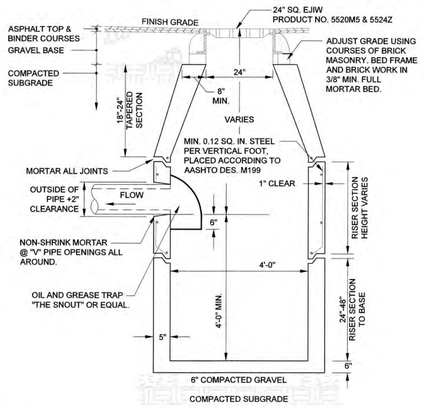
SHEET TITLE:
DETAIL SHEET

SHEET NUMBER:
C602

P:\Shearwater Companies (The)\20033 (200 Shuman Ave, Stoughton)\04_Design\Dwg\03_DD\20033_DS01.dwg



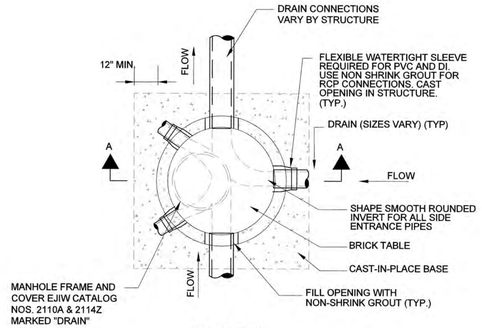
NOTE: ALL CATCH BASINS SHALL MEET THE REQUIREMENTS OF THE TOWN OF STOUGHTON DEPARTMENT OF PUBLIC WORKS. ANY CATCH BASINS INSTALLED ADJACENT TO GRANITE CURBING MUST RECEIVE GRANITE THROAT STONES.



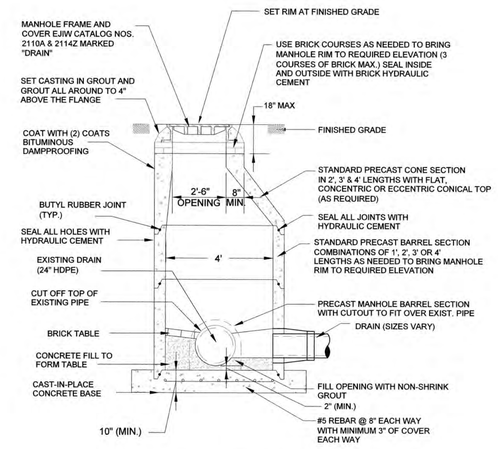
NOTES:

1. ALL STRUCTURES SHALL BE SUITABLE FOR H-20 LOADING AND SHALL MEET THE REQUIREMENTS OF ASTM C478.
2. ALL BLOCKS TO BE LAID IN A FULL BED OF MORTAR.
3. OUTSIDE OF BASIN TO BE COATED WITH 2" OF MORTAR CEMENT PARGING.
4. FACE OF PIPE FLUSH OR NOT TO PROJECT MORE THAN 4" FROM FACE OF WALL ALONG CENTERLINE OF PIPE.
5. PIPE OPENING COVERED WITH 23 GAUGE GALVANIZED WIRE MESH.
6. PLACE 2 C.F. OF 2" CRUSHED STONE OVER WIRE MESH.
7. BACKFILL SHALL CONSIST OF CLEAN SOIL MATERIALS UNIFORMLY PLACED IN 6-INCH LAYERS AROUND THE STRUCTURE AND THOROUGHLY COMPACTED WITH HAND TAMPERS OR MECHANICAL EQUIPMENT.

SINGLE & DOUBLE GRATE CATCH BASIN — B3
NOT TO SCALE

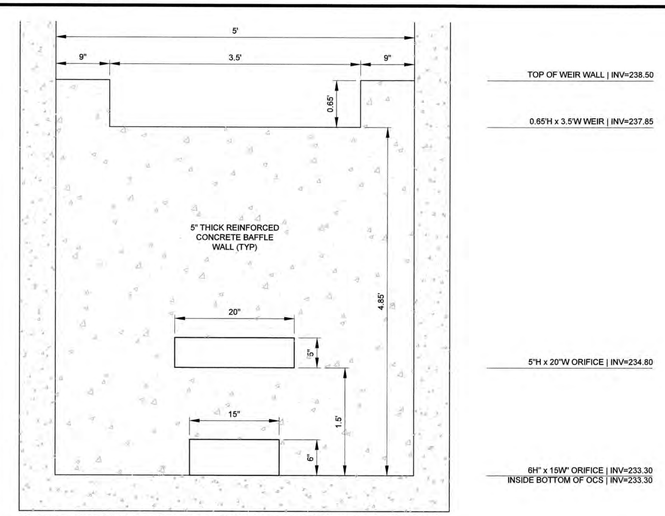


PLAN VIEW

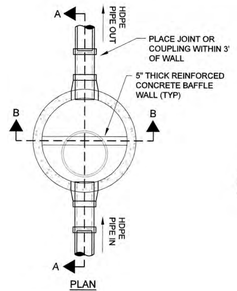


SECTION VIEW

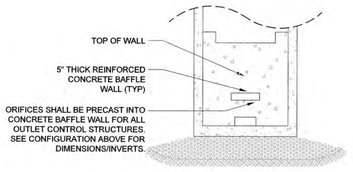
DOGHOUSE MANHOLE — B2
NOT TO SCALE



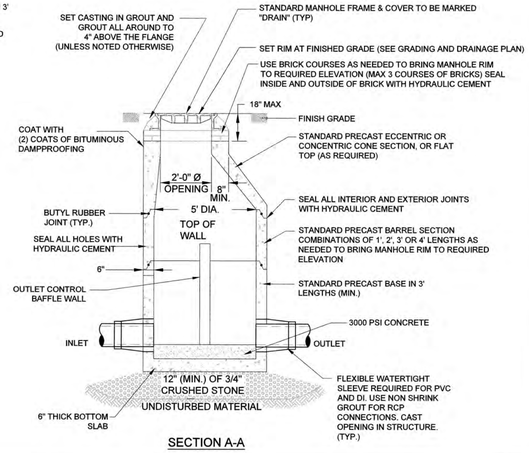
OUTLET CONTROL BAFFLE WALL ORIFICE/WEIR CONFIGURATION (1"=1')



PLAN

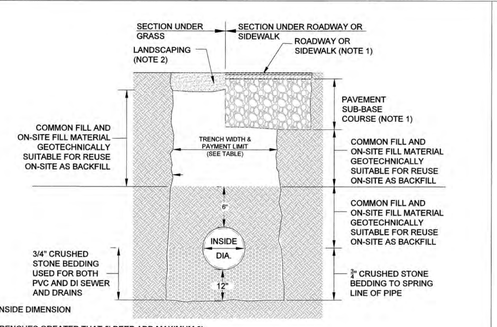


SECTION B-B



SECTION A-A

STANDARD OUTLET CONTROL MANHOLE STRUCTURE — B1
NOT TO SCALE EXCEPT AS NOTED



I.D. = INSIDE DIMENSION

FOR TRENCHES GREATER THAT 5' DEEP ADD MAXIMUM 3' FOR TEMPORARY SUPPORT OF EXCAVATION

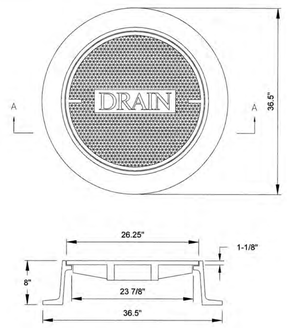
NOTES:

1. REFER TO PAVING AND SURFACING, AND CURBS, WALKS AND DRIVEWAYS REQUIREMENTS.
2. REFER TO LANDSCAPING REQUIREMENTS
3. REFER TO "TRENCH PAY LIMIT TABLE FOR PIPES" FOR PAYMENT OF ALL ITEMS IN WHICH PAY TRENCH WIDTH IS A VARIABLE FOR CALCULATIONS OF QUANTITIES EXCEPT FOR TRENCH PAVEMENT
4. REFER TO TRENCH PAVEMENT DETAIL FOR PAVEMENT PAYMENT WIDTHS

TRENCH PAY LIMIT TABLE FOR PIPES

PIPE SIZE (DIA.)	MAX TRENCH WIDTH
LESS THAN 2"	2'-0"
2" TO 6"	3'-0"
8" TO 22"	4'-0"
24" & GREATER	I.D. + 2'-0"

DRAINAGE & SEWER TRENCH — A4
NOT TO SCALE

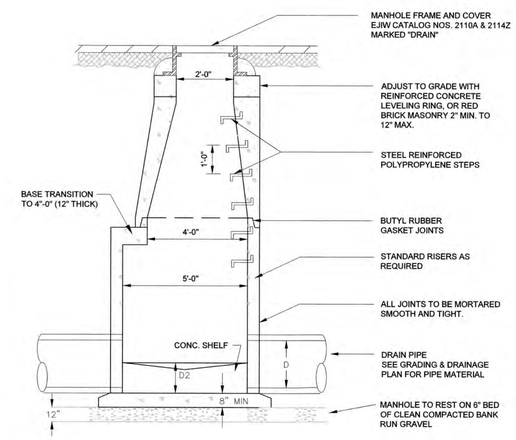


SECTION A-A

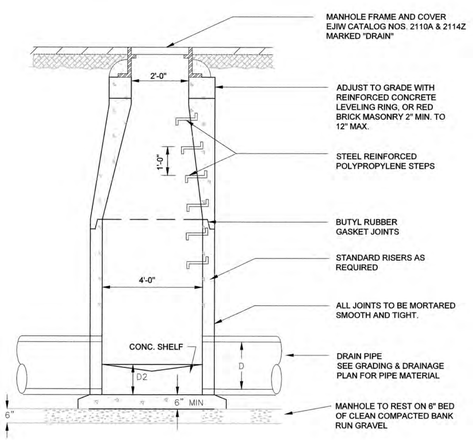
NOTE:

FRAME AND COVER SHALL BE EAST JORDAN IRON WORKS CATALOG NOS. 2110A & 2114Z MARKED "DRAIN", OR APPROVED EQUAL.

DRAIN MANHOLE FRAME & COVER — A3
NOT TO SCALE



5' PRECAST DRAIN MANHOLE — A2
NOT TO SCALE

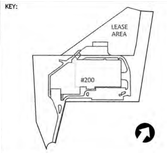


4' PRECAST DRAIN MANHOLE — A1
NOT TO SCALE

HIGHPOINT ENGINEERING, INC.
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175 PARAMOUNT DRIVE
RAYNHAM, MA 02767
PHONE: (508) 386-9895
WWW.SHEARWATERCOMPANIES.COM

KEY:



SEAL



PROPOSED BUILDING EXPANSION
200 SHUMAN AVENUE
STOUGHTON, MASSACHUSETTS 02072
OWNER/APPLICANT: TSC SHUMAN 200 LLC

REV	DATE	DESCRIPTION
3	4/27/2021	FINAL APPROVAL PLANS
2	3/25/2021	NO CHANGE
1	3/15/2021	REVISED PER TOWN COMMENTS

ISSUE TYPE:
LOCAL APPROVAL

ISSUE DATE:
FEBRUARY 10, 2021

PROJECT NUMBER:
20033

DRAWN BY: CM

CHECKED BY: JA

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SHEET TITLE:
DETAIL SHEET

SHEET NUMBER:
C603

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