

SUBSURFACE SOIL EXPLORATION DATA

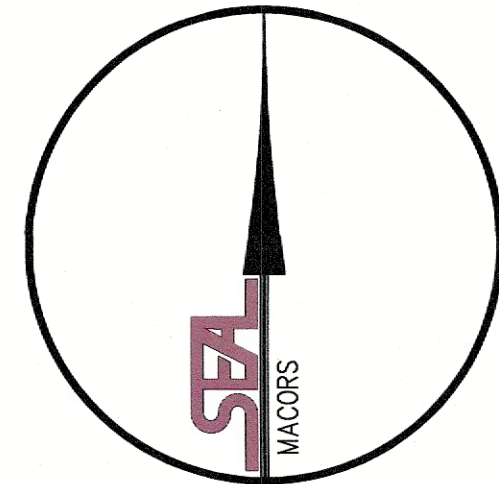
DATE: DECEMBER 6, 2018
TEST CONDUCTED BY: LAWRENCE P. SILVA P.E.

ELEV.	DEPTH	HORIZON	TEXTURE	COLOR	OTHER
117.82	0-34"	FILL			
108.01	34-42"	Bw	SANDY LOAM	10YR5/8	LOOSE
108.31	42-72"	C1	LOAMY SAND	2.5Y7/3	LOOSE 10% GRAVEL 2% COBBLE
105.81	72-120"	C2	MEDIUM SAND	2.5Y6/4	LOOSE 15% GRAVEL 3% COBBLE
101.81					

GROUNDWATER ELEVATION = STANDING WATER IN HOLE = NONE.
GROUNDWATER ELEVATION = WEEPING FROM PIT FACE = NONE.
GROUNDWATER ELEVATION = MOTTILING = 116"
ESTIMATED SEASONAL HIGH GROUNDWATER = 102.1

ELEV.	DEPTH	HORIZON	TEXTURE	COLOR	OTHER
112.54	0-30"	FILL			
110.02	30-45"	Bw	SANDY LOAM	10YR5/8	LOOSE
108.71	45-70"	C1	LOAMY SAND	2.5Y7/3	LOOSE 5% GRAVEL 2% COBBLE
106.71	70-120"	C2	MEDIUM SAND	2.5Y6/4	LOOSE 10% GRAVEL 2% COBBLE
102.51					

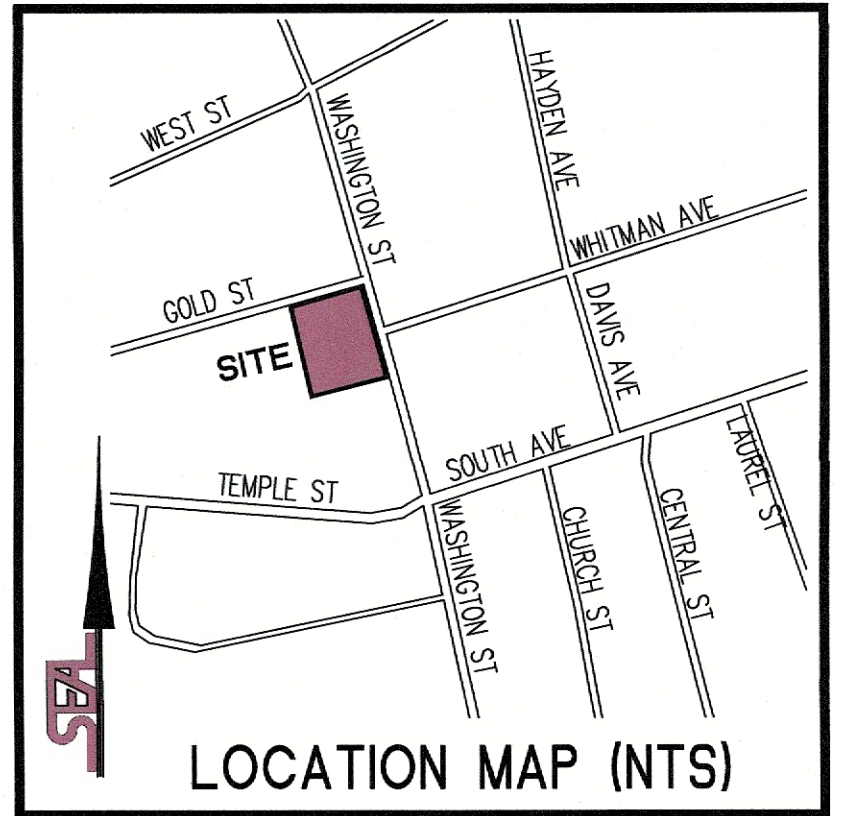
GROUNDWATER ELEVATION = STANDING WATER IN HOLE = NONE.
GROUNDWATER ELEVATION = WEEPING FROM PIT FACE = NONE.
GROUNDWATER ELEVATION = MOTTILING = 91"
ESTIMATED SEASONAL HIGH GROUNDWATER = 105.0



BUILDING DATA:
PROPOSED 4 STORY BUILDING
• 1ST FLOOR INCLUDES 4 RETAIL UNITS AND COMMON AREAS
• 2ND, 3RD, 4TH FLOOR INCLUDES RESIDENTIAL UNITS.
5 - 1 BEDROOM UNITS PER FLOOR
TOTAL 15 UNITS; 15 BEDROOMS

PARKING DATA:
RESIDENTIAL PARKING REQUIRED = 1 SPACE PER UNIT
WITH 15 UNITS = 15 SPACES
PARKING PROPOSED = 17 SPACES INCLUDING 2
HANDICAP SPACES
ADDITIONAL PARKING LOCATED ON WASHINGTON STREET.

PROJECT BENCHMARK
TOP OF HYDRANT
ELEV=113.42(NAVD88)



LAWRENCE P. SILVA, P.E. REG. NO. 33381-C

DATE 3-7-2023

REVISIONS		
DATE	DRAWN	DESCRIPTION
4/8/2019	RAB	ADD SNOW STORAGE AND LIGHTING
11/21/2022	LPS	UPDATES TO BUILDING SIZE; UTILITIES
12/8/2022	RAB	UPDATE BEDROOM COUNTS; ADD LOADING
3/6/2023	RAB	UPDATE PARKING SIZE; SHIFT BUILDING

PARCEL DATA:
ASSESSOR'S REFERENCE: MAP 4, LOT 43-14
CURRENT OWNER: DOMENIC VARRASSO
DEED REFERENCE: BOOK 56345, PAGE 20
TOTAL AREA: 15,404 SF OR 0.35 ACRES
ASSESSOR'S REFERENCE: MAP 4, LOT 43-15
CURRENT OWNER: DOMENIC VARRASSO
DEED REFERENCE: BOOK 56345, PAGE 20
TOTAL AREA: 3,046 SF OR 0.07 ACRES
ZONING REFERENCE: GENERAL BUSINESS
MIN. LOT SIZE: 10,000 S.F.
MIN. FRONTAGE: 90 FEET
MIN. FRONT YARD: 0 FEET
MIN. SIDE YARD: 0 FEET
MIN. REAR YARD: 20 FEET
THE FLOOD INSURANCE RATE MAP IDENTIFIES THE SUBJECT PROPERTY AS BEING IN ZONE X; COMMUNITY PANEL No. 25023C0179J; DATED JULY 17, 2012.

'EXISTING CONDITIONS & SITE LAYOUT'
SITE:
ASSESSOR'S MAP 4, LOT 43-14
596 WASHINGTON STREET
&
ASSESSOR'S MAP 4, LOT 43-15
604 WASHINGTON STREET
WHITMAN, MASSACHUSETTS

PREPARED FOR:
DOVA PROPERTIES INC
SEA SILVA ENGINEERING ASSOCIATES, P.C.
CIVIL ENGINEERS, LAND SURVEYORS & ENVIRONMENTAL CONSULTANTS
1615 BEDFORD STREET
BRIDGEWATER, MA. 02324
PHONE (508) 697-3100 FAX (508) 697-3136
www.silvaeng.com

SCALE	DRAWN	DATE	ACAD FILE	SHEET
1"=20'	MRE	1/28/19	18015AWS7	1 OF 2

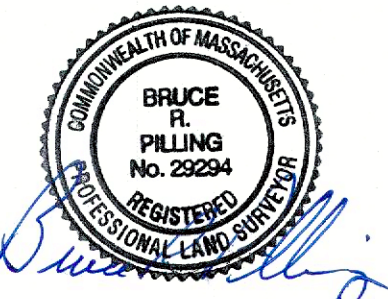
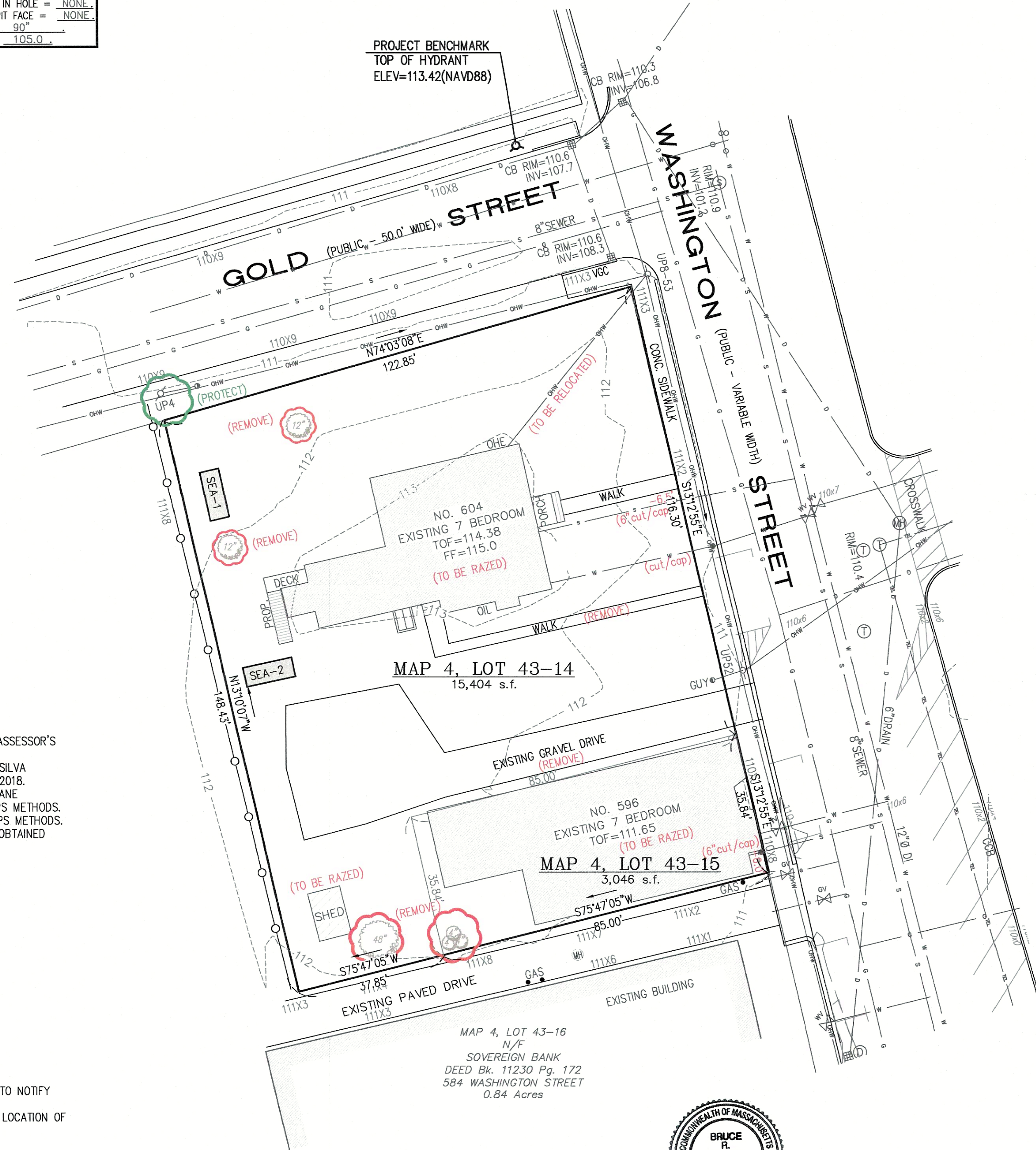
- LEGEND**
- PROPERTY LINE
 - EXISTING EDGE OF PAVEMENT
 - 110X6 EXISTING SPOT GRADE
 - 96 EXISTING CONTOUR
 - W EXISTING WATER LINE
 - UEL EXISTING UNDERGROUND ELEC
 - G EXISTING GAS LINE
 - TEL EXISTING TELEPHONE LINE
 - S EXISTING SEWER LINE
 - HYDRANT
 - UP51 EXISTING UTILITY POLE
 - OHW OVERHEAD WIRES
 - GUY WIRE
 - EXISTING FENCE
 - EXISTING SIGN
 - CATCHBASIN
 - WATER VALVE
 - GAS VALVE
 - SEWER MANHOLE
 - DRAIN MANHOLE
 - TELEPHONE MANHOLE
 - UNKNOWN MANHOLE
 - FINISHED FLOOR
 - AIR CONDITIONING UNIT
 - HANDICAP PARKING

PLAN REFERENCES:

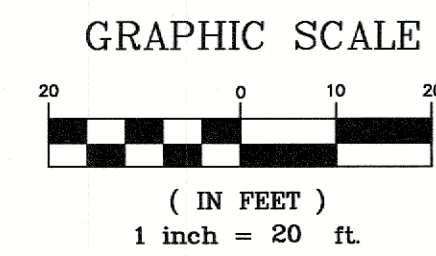
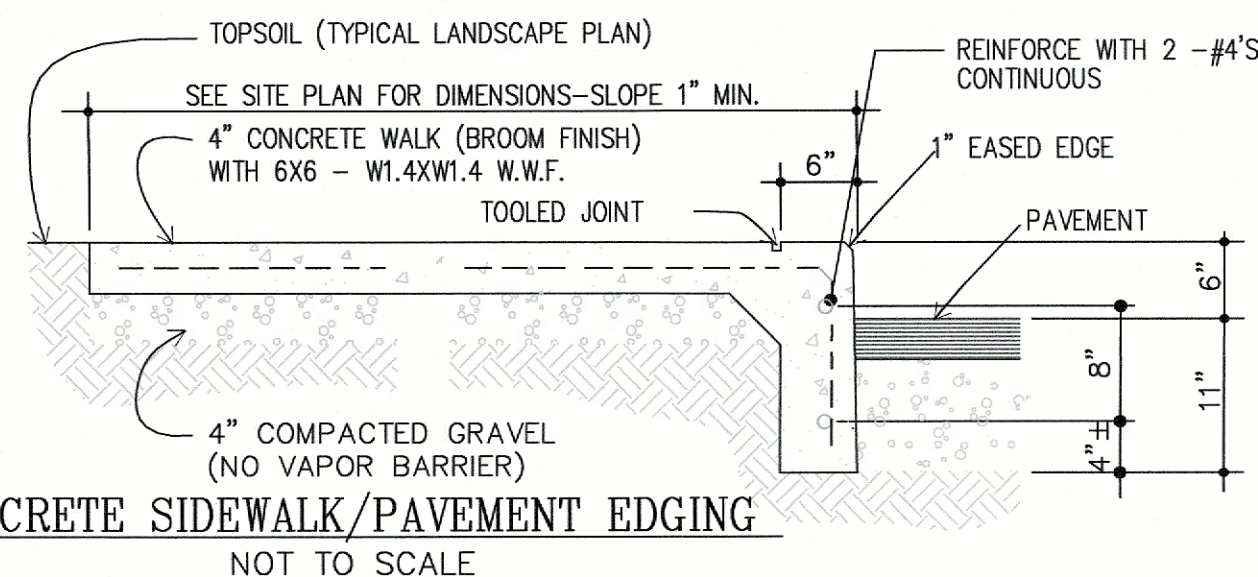
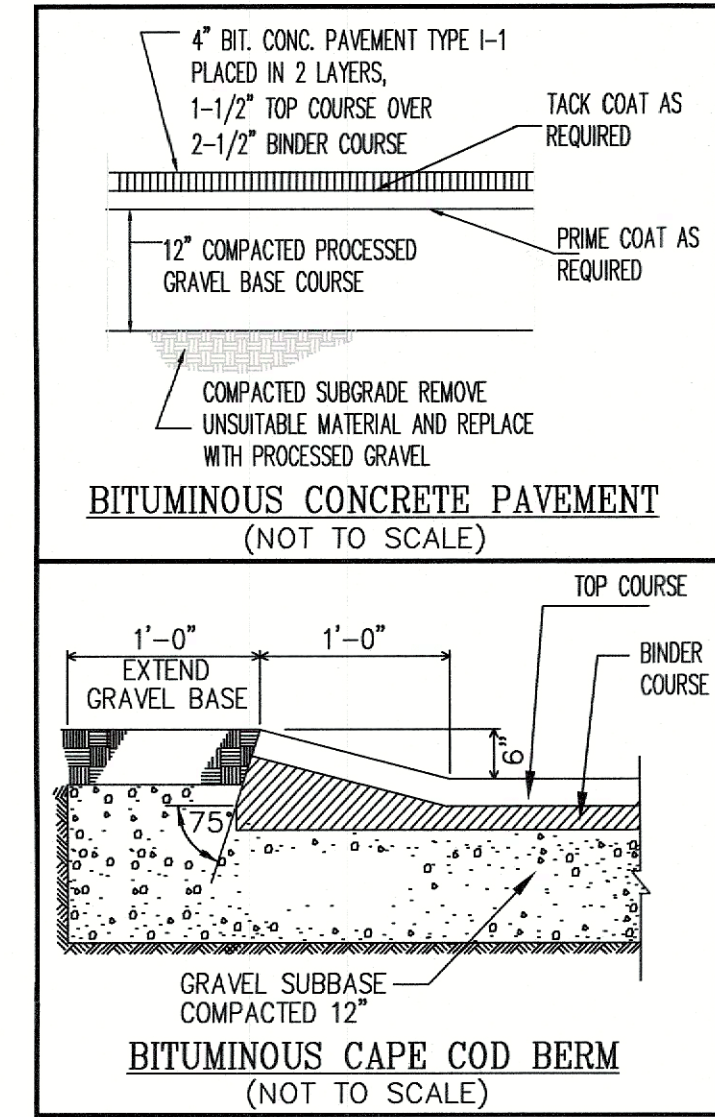
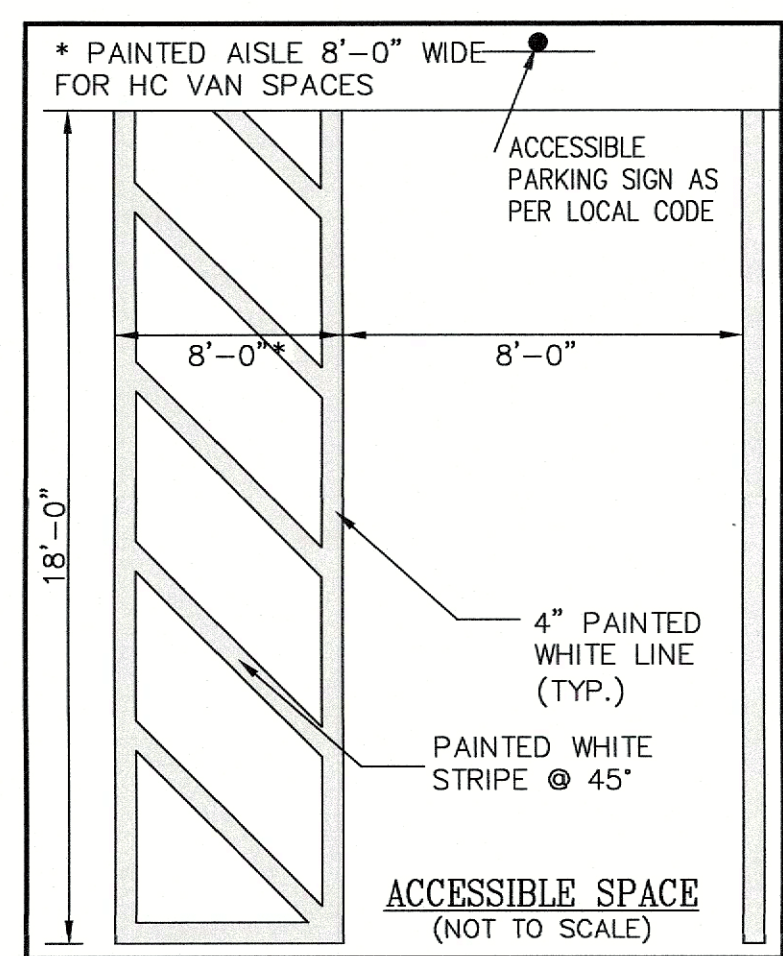
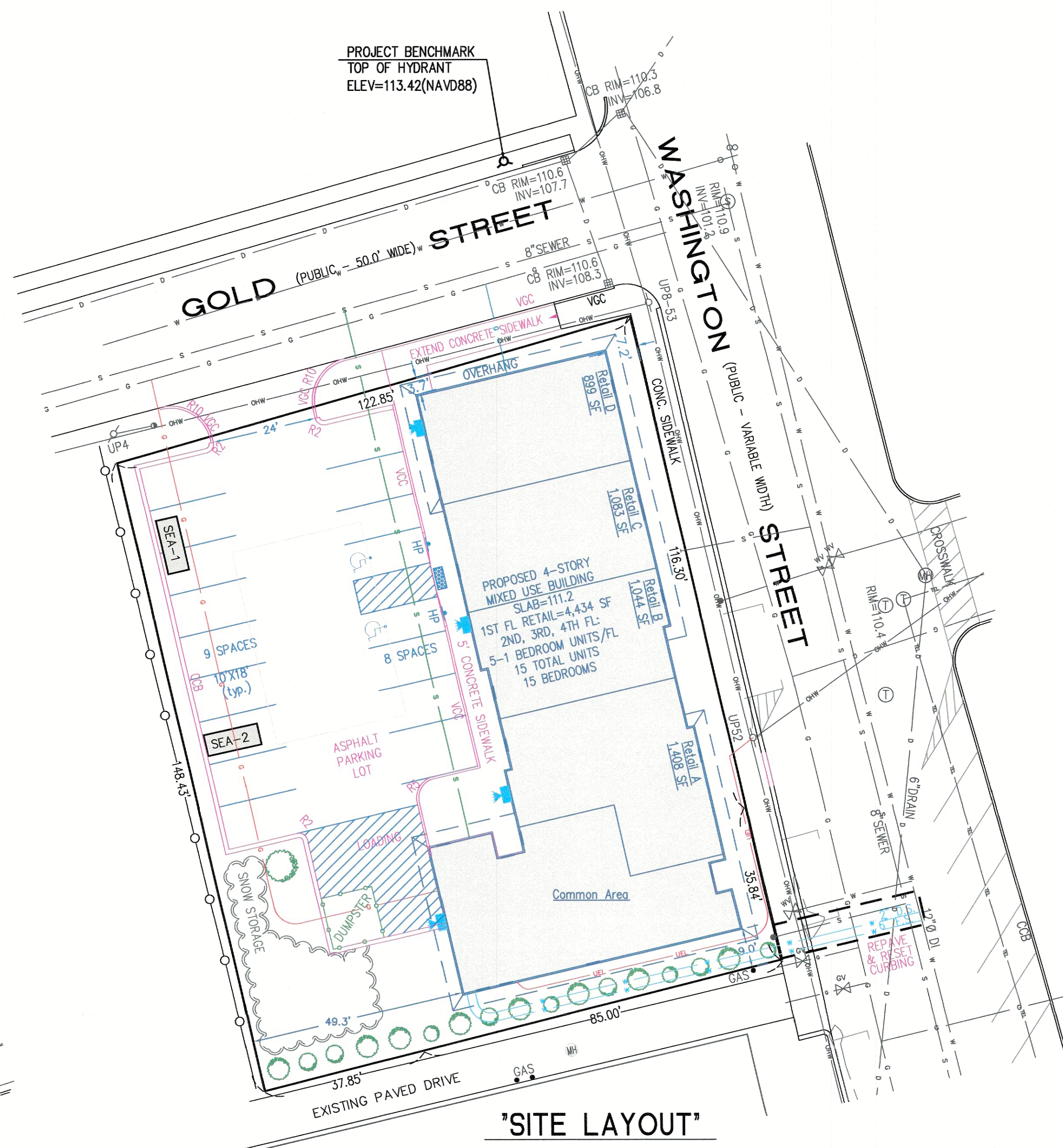
- LOT NUMBERS REFER TO THE TOWN OF WHITMAN ASSESSOR'S MAP AND LOT NUMBERS.
- EXISTING CONDITION SURVEY WAS PERFORMED BY SILVA ENGINEERING ASSOCIATES P.C. ON FEBRUARY 27, 2018.
- HORIZONTAL DATUM IS MASSACHUSETTS STATE PLANE COORDINATE SYSTEM (NAD83) ESTABLISHED BY GPS METHODS. VERTICAL DATUM IS NAVD88 ESTABLISHED WITH GPS METHODS.
- PROPERTY LINE ILLUSTRATED ON THIS PLAN WAS OBTAINED FROM THE FOLLOWING:
 - PLAN BOOK 47 PAGE 861
 - PLAN BOOK 33, PAGE 400
 - COUNTY BOOK 1 PAGE 49
 - DEED BOOK 15730, PAGE 232
 - DEED BOOK 11230, PAGE 172-173
 - DEED BOOK 46771, PAGE 146

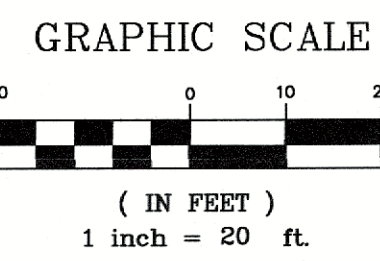
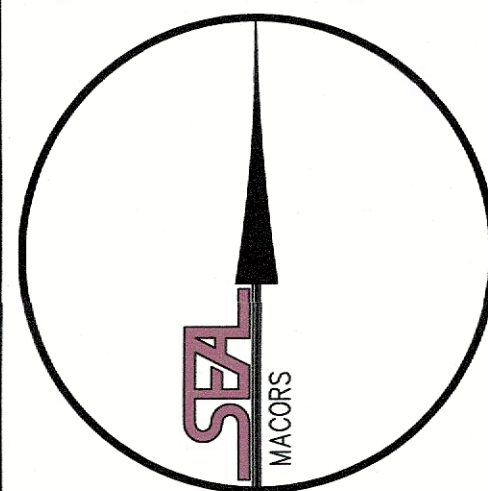
NOTES:
IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY DIGSAFE AND ALL UTILITY COMPANIES, AGENCIES, DEPARTMENTS PRIOR TO CONSTRUCTION FOR THE LOCATION OF ALL UNDERGROUND UTILITIES.

LOCATION OF UTILITIES SHOWN ARE FROM OBSERVED EVIDENCE TOGETHER WITH EVIDENCE FROM PLANS OBTAINED FROM UTILITY COMPANIES OR PROVIDED BY CLIENT, AND MARKINGS BY UTILITY COMPANIES AND OTHER APPROPRIATE SOURCES. THIS IS NOT IMPLIED NOR INTENDED TO BE THE COMPLETE INVENTORY OF UTILITIES IN THIS AREA. IT IS THE CLIENTS RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES (WHETHER SHOWN OR NOT) AND PROTECT SAID UTILITIES FROM ANY DAMAGE.



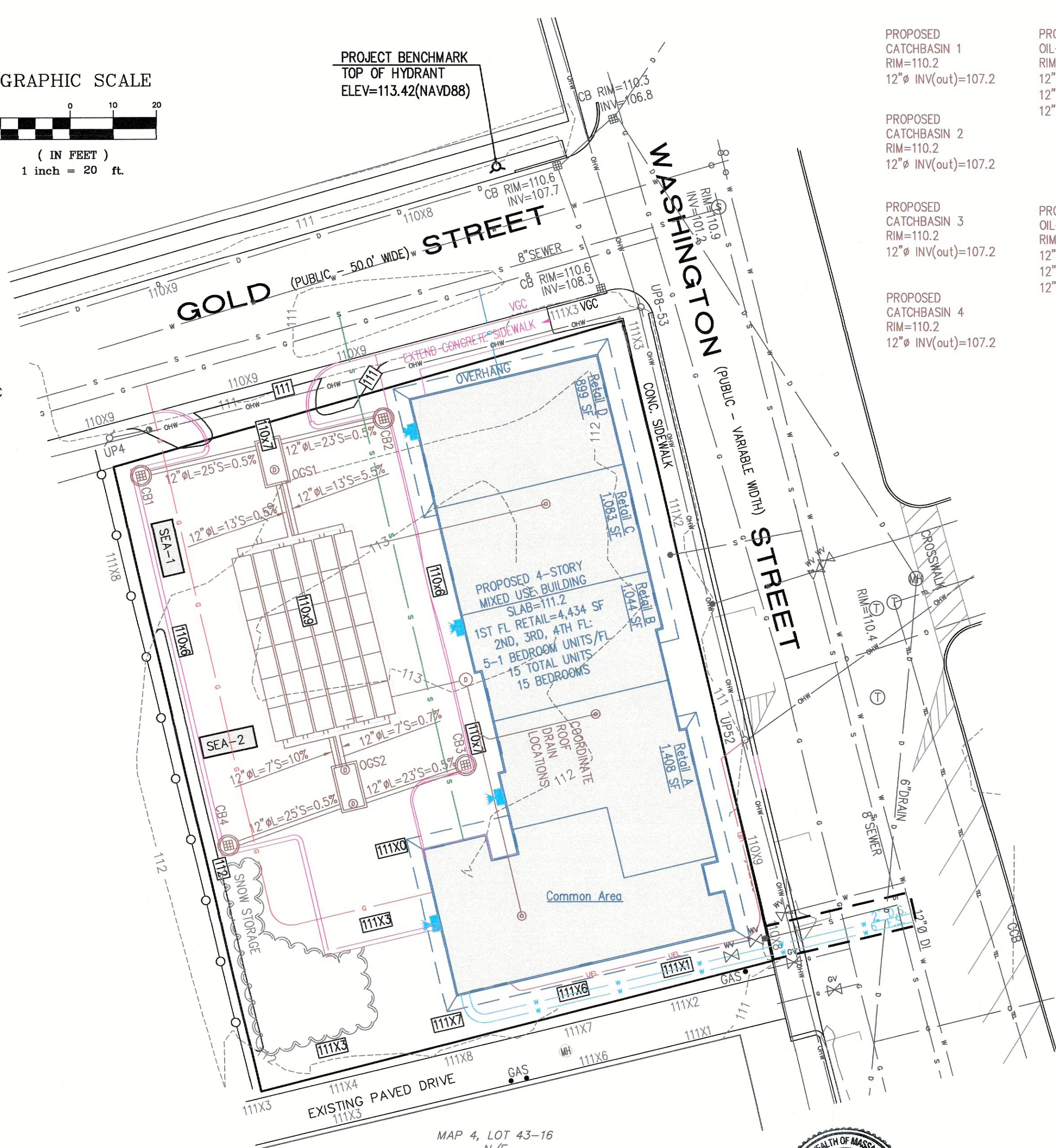
'EXISTING CONDITIONS'





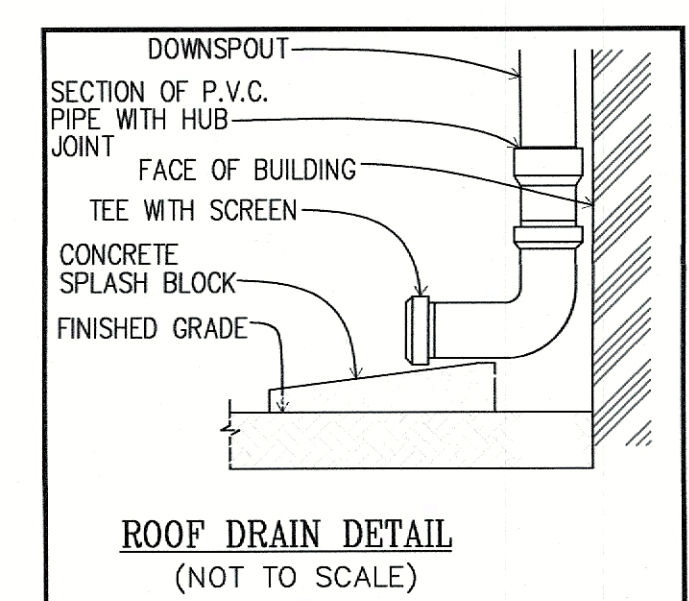
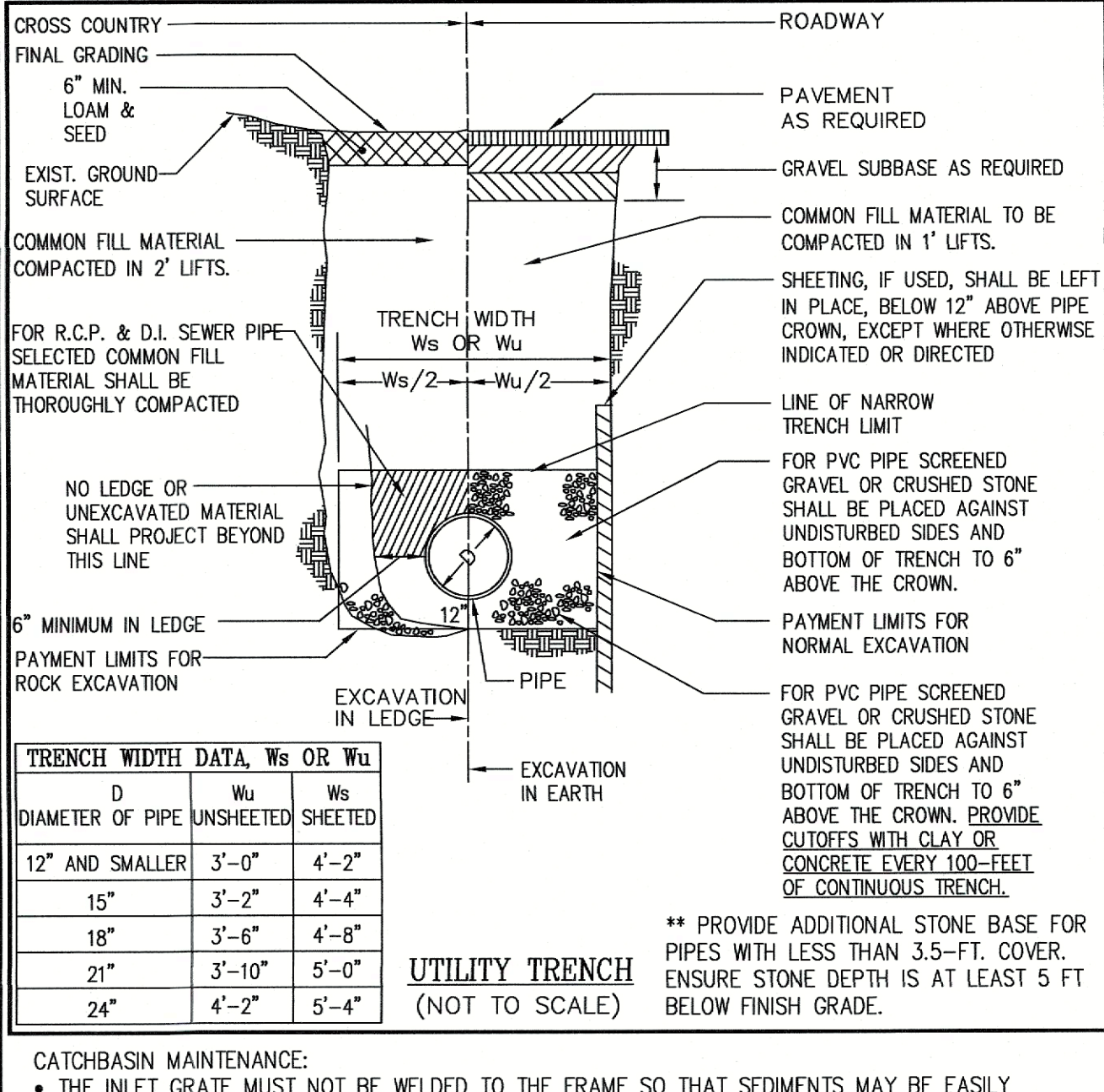
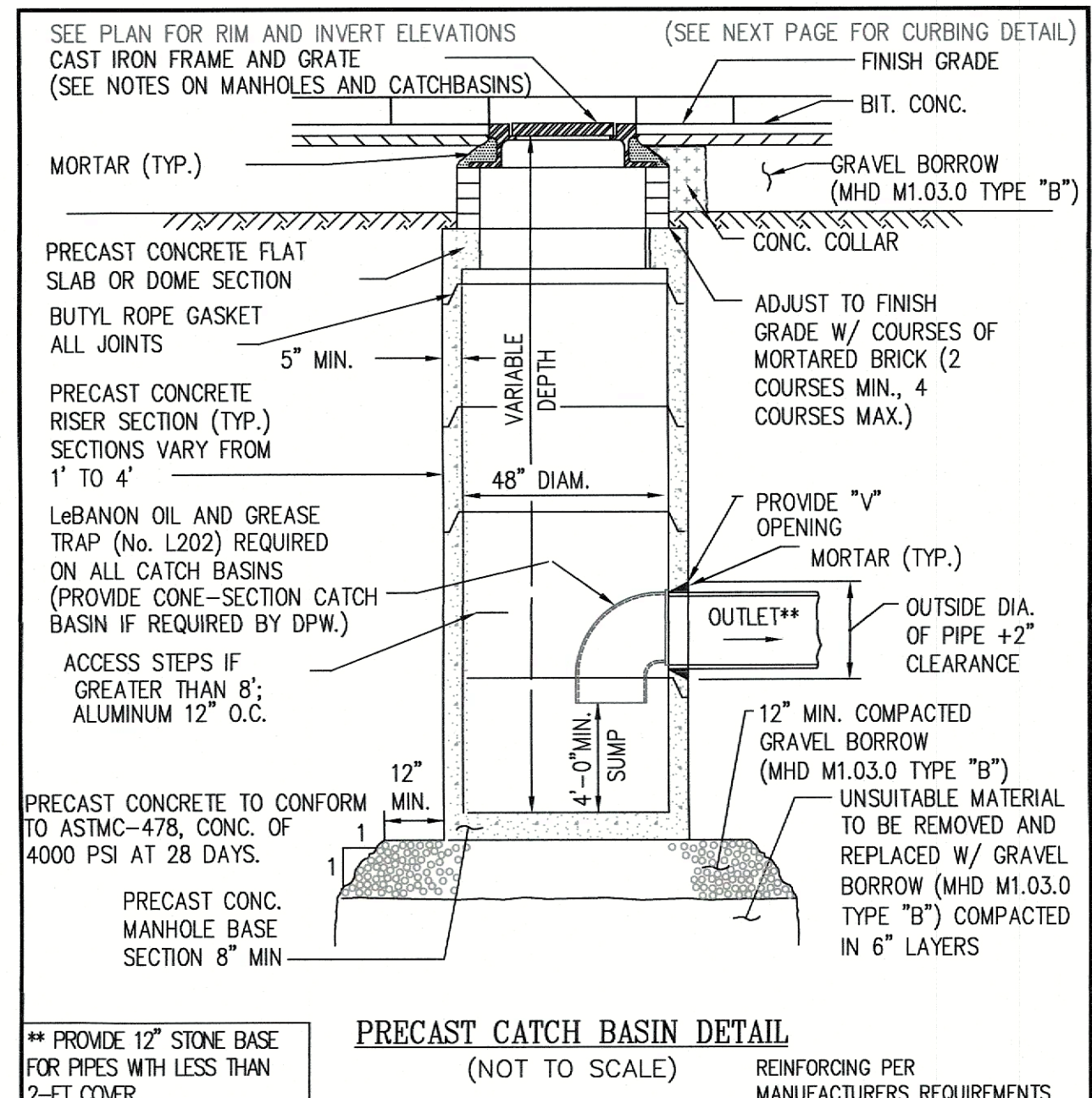
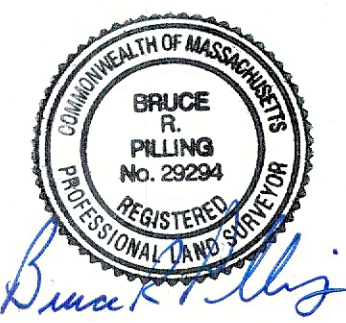
PROJECT BENCHMARK
TOP OF HYDRANT
ELEV=113.42(NAVD88)

- LEGEND**
- PROPERTY LINE
 - EXISTING EDGE OF PAVEMENT
 - 110X6 — EXISTING SPOT GRADE
 - 96- — EXISTING CONTOUR
 - W — EXISTING WATER LINE
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 - FINISHED FLOOR
 - AIR CONDITIONING UNIT
 - HANDICAP PARKING
 - 111X3 — PROPOSED SPOT GRADE
 - PROPOSED LIGHTING



- PROPOSED CATCHBASIN 1
RIM=110.2
12" INV(out)=107.2
- PROPOSED CATCHBASIN 2
RIM=110.2
12" INV(out)=107.2
- PROPOSED CATCHBASIN 3
RIM=110.2
12" INV(out)=107.2
- PROPOSED CATCHBASIN 4
RIM=110.2
12" INV(out)=107.2
- PROPOSED OIL-GRIT SEPARATOR 1
RIM=110.7
12" INV(in)=107.08
12" INV(out)=106.85
12" INV(overflow)=107.51
- PROPOSED OIL-GRIT SEPARATOR 2
RIM=110.7
12" INV(in)=107.08
12" INV(out)=106.85
12" INV(overflow)=107.51

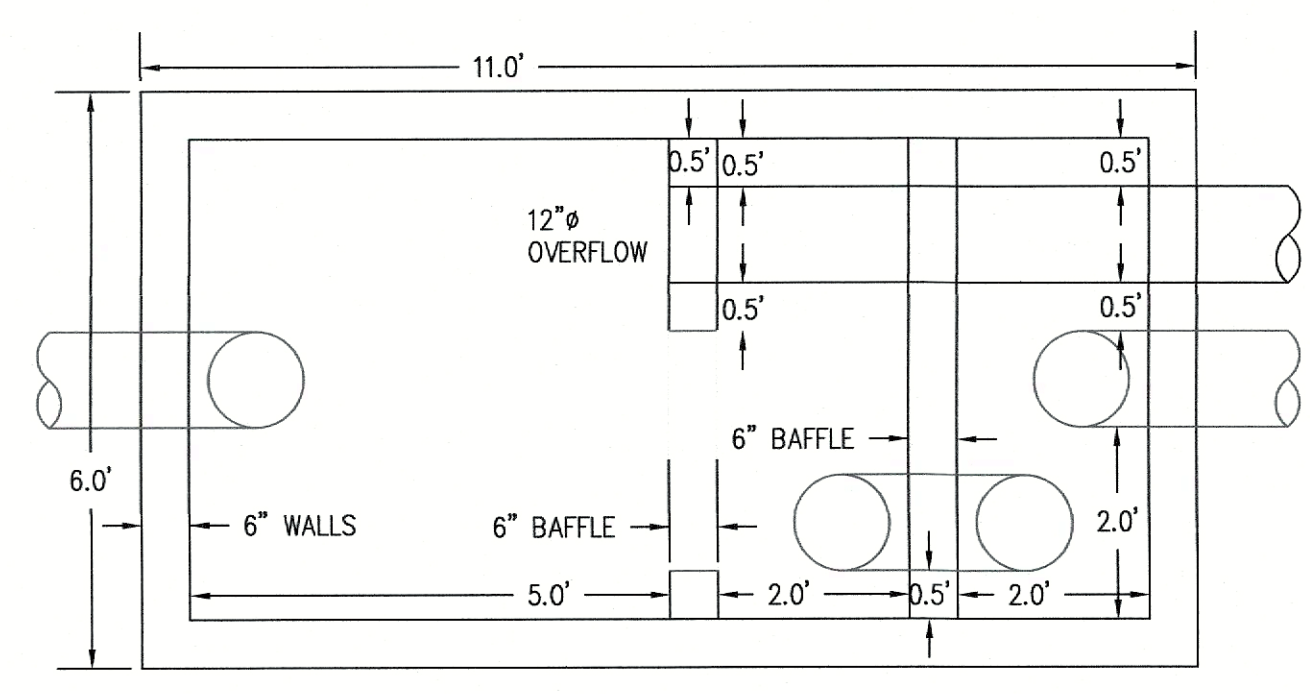
MAP 4, LOT 43-16
N/F
SOVEREIGN BANK
DEED BK. 11230 Pg. 172
584 WASHINGTON STREET
0.84 Acres



- CATCHBASIN MAINTENANCE:**
- THE INLET GRATE MUST NOT BE WELDED TO THE FRAME SO THAT SEDIMENTS MAY BE EASILY REMOVED.
 - HOODS MUST BE USED IN DEEP SUMP CATCH BASINS.
 - INSPECT OR CLEAN DEEP SUMP BASINS AT LEAST FOUR TIMES PER YEAR AND AT THE END OF THE FOLIAGE AND SNOW REMOVAL SEASONS.
 - SEDIMENTS MUST BE REMOVED A MINIMUM OF FOUR TIMES PER YEAR OR WHENEVER THE DEPTH OF DEPOSITS IS GREATER THAN OR EQUAL TO ONE HALF THE DEPTH FROM THE BOTTOM OF THE INVERT OF THE LOWEST PIPE IN THE BASIN.
 - CLAMSHELL BUCKETS ARE TYPICALLY USED TO REMOVE SEDIMENT IN MASSACHUSETTS. HOWEVER, VACUUM TRUCKS ARE PREFERABLE, BECAUSE THEY REMOVE MORE TRAPPED SEDIMENT AND SUPERSTANT THAN CLAMSHELLS.
 - VACUUMING IS ALSO A SPEEDIER PROCESS AND IS LESS LIKELY TO SNAP THE CAST IRON HOOD WITHIN THE DEEP SUMP CATCH BASIN.



LAWRENCE P. SILVA, P.E. REG No. 33381-C
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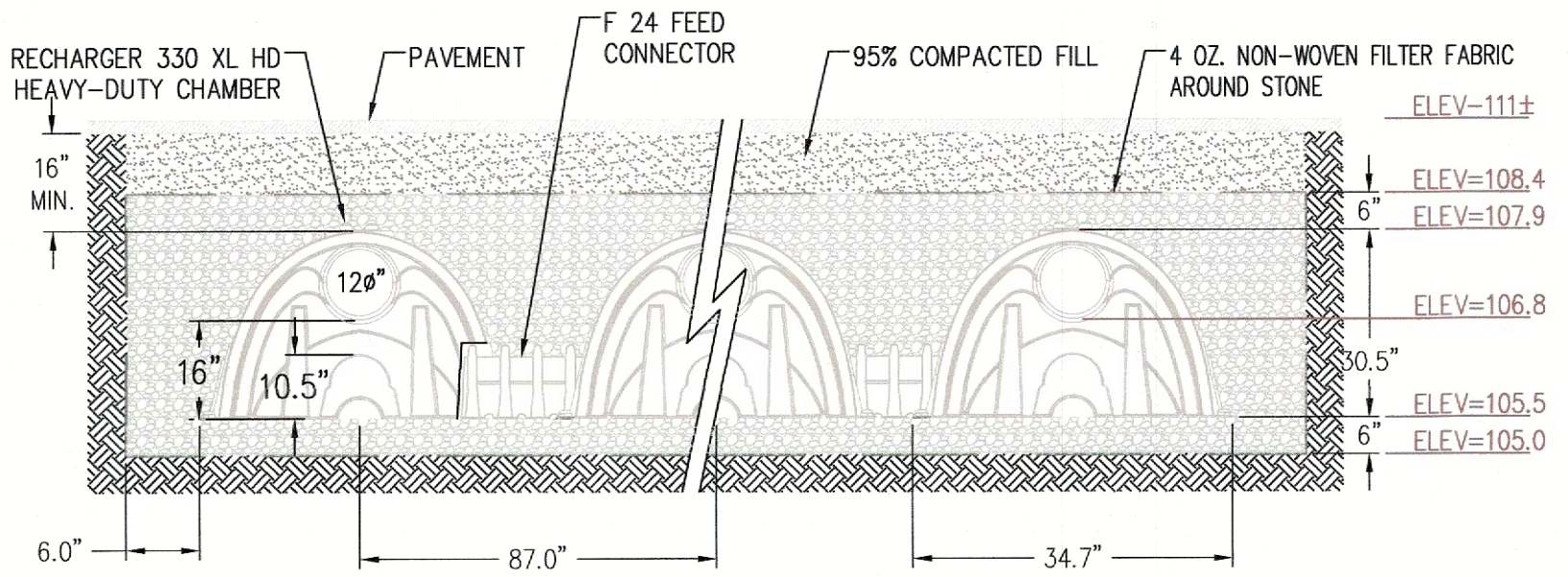


- NOTES:**
1. Concrete: 5,000 P.S.I Minimum Strength @ 28 Days
 2. Steel Reinforcement: ASTM A-615, Grade 60.
 3. Cover to Steel-1" Minimum
 4. Tanks are Designed to Meet ASTM C858 and ACI 318 with AASHTO HS-20 Loading
 5. Earth Cover-0 to 5 Feet Max.
 6. Construction Joint-Sealed with 1" Dia. Butyl Rubber or Equivalent

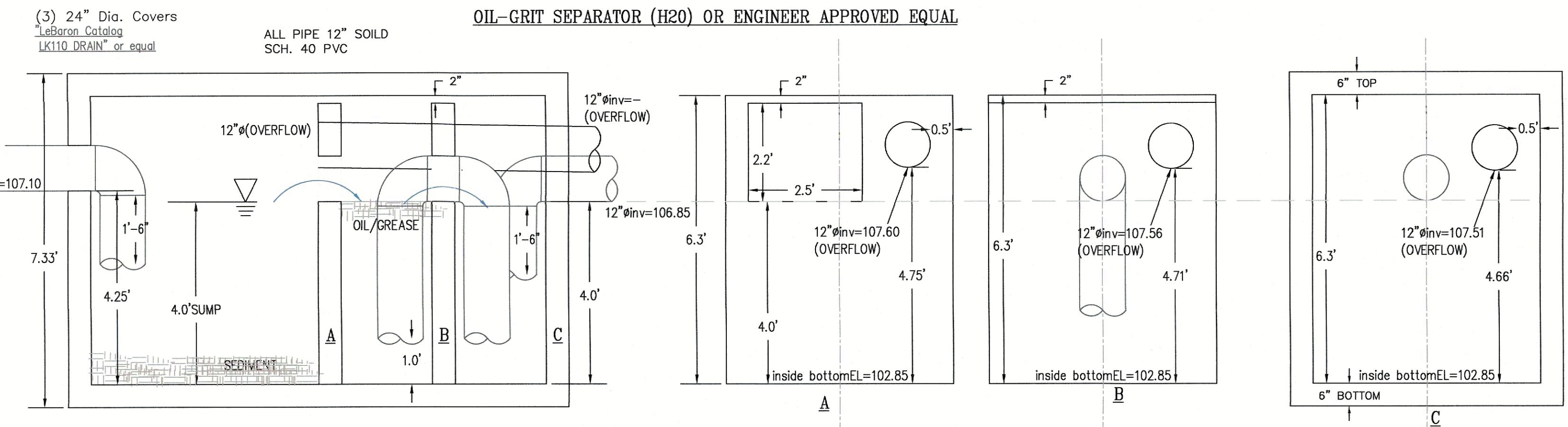
Chamber Model = Cultec R-330XLHD (Cultec Recharger® 330XLHD)
Effective Size= 47.8"W x 30.0"H => 7.45 sf x 7.00'L = 52.2 cf
Overall Size= 52.0"W x 30.5"H x 8.50'L with 1.50' Overlap
Row Length Adjustment= +1.50' x 7.45 sf x 6 rows

6 Chambers/Row x 7.00' Long +1.50' Row Adjustment = 43.50' Row Length +12.0' End Stone x 2 = 45.50' Base Length
6 Rows x 52.0' Wide + 6.0' Side Stone x 2 = 30.50' Base Width
6.0' Base + 30.5' Chamber Height + 6.0' Cover = 3.54' Field Height

36 Chambers x 52.2 cf +1.50' Row Adjustment x 7.45 sf x 6 Rows = 1,944.7 cf Chamber Storage
4,914.9 cf Field - 1,944.7 cf Chambers = 2,970.2 cf Stone x 40.0% Voids = 1,188.1 cf Stone Storage
Chamber Storage + Stone Storage = 3,132.8 cf



- GENERAL NOTES**
- RECHARGER 330 XL HD BY CULTEC, INC. OF BROOKFIELD, CT. STORAGE PROVIDED = 11.32 CF/FT PER DESIGN UNIT. REFER TO CULTEC, INC.'S CURRENT RECOMMENDED INSTALLATION GUIDELINES.
 - USE RECHARGER 330 XL HD HEAVY DUTY FOR TRAFFIC AND/OR H2O APPLICATIONS.
 - ALL RECHARGER 330 XL HD HEAVY DUTY UNITS ARE MARKED WITH A COLOR STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.
 - ALL RECHARGER 330 XL HD CHAMBERS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.



REVISIONS		
DATE	DRAWN	DESCRIPTION
4/8/2019	RAB	ADD SNOW STORAGE AND LIGHTING
11/21/2022	LPS	UPDATES TO BUILDING SIZE; UTILITIES
12/8/2022	RAB	UPDATE BEDROOM COUNTS; ADD LOADING
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"GRADING & DRAINAGE"

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1"=20'	MRE	1/28/19	18015AWS7	2 OF 2