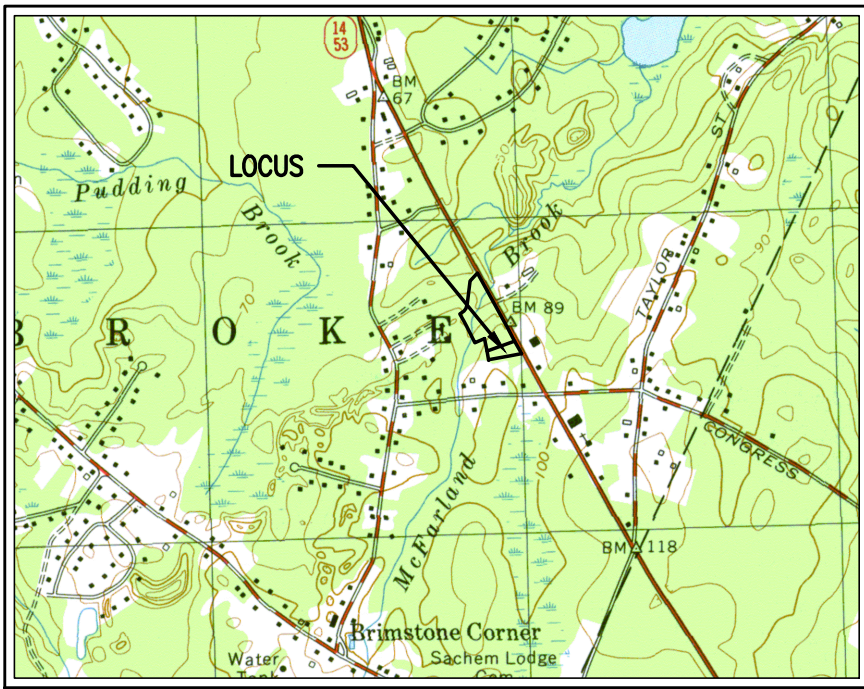




I HEREBY CERTIFY THAT AND INSTRUMENT BOUNDARY SURVEY HAS BEEN CONDUCTED ON THIS PROPERTY AND I CERTIFY THAT THE LOCATIONS OF THE BUILDING, SETBACKS AND ALL OTHER DIMENSIONS, ELEVATIONS AND MEASUREMENTS ARE ACCURATE.

TIMOTHY BENNETT, P.L.S.

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN CONFORMANCE WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS OF THE COMMONWEALTH OF MASSACHUSETTS.

TIMOTHY BENNETT, P.L.S.

RECORD OWNER:
ASSESSOR MAP F9 LOT 24
DANIEL P. & SUSAN M SPURLING, TRUSTEES OF ROSE REALTY TRUST
DEED BOOK 48500 PAGE 216

PLAN REFERENCES
1. PLAN No. 282 OF 1956
2. PLAN No. 561 OF 1973
3. PLAN No. 663 OF 1973
4. PLAN No. 226 OF 1994
5. PLAN No. 308 OF 1995
6. MASSACHUSETTS STATE HIGHWAY LAYOUT No. 2771

ZONE:	RESIDENTIAL-COMMERCIAL			
EXISTING USE:	COMMERCIAL BUILDING			
PROPOSED USE:	ALLOWED USE PER ZBL SECTION IV 2.A.4 - LIGHT INDUSTRY, INCLUDING FABRICATION, ASSEMBLY, FINISHING, PACKAGING OR RESEARCH, TO INCLUDE THE MANUFACTURE, ASSEMBLY, AND PACKAGING OF MERCHANDISE.			
PARCEL SIZE	225,565± SF (133,330 CONTIGUOUS UPLAND)			
DIMENSIONAL REQUIREMENTS:				
LOT AREA (RECORD 185,565 S.F.)	REQUIRED 120,000 S.F.	EXISTING 182,484 SF	PROPOSED 182,484 S.F.	
LOT AREA EXCLUSIVE OF WETLANDS	120,000 S.F.	102,291 S.F.	102,291 S.F.	
LOT PERIMETER RATIO (182484/1,859)	55:1	98:1	98:1	
LOT FRONTAGE	250 FT	658.04 FT	658.04 FT	
(BUILDING, STRUCTURES, PAVED AREAS)				
FRONT SETBACK	100 FT	N/A FT	50.0 FT*	
SIDE SETBACK	40 FT	N/A FT	42.6 FT	
REAR SETBACK	50 FT	N/A FT	60.7 FT	
MAX HEIGHT	2.5 STORIES	N/A	1 STORIES	
MAX BUILDING FLOOR AREA (%)	35%	N/A	2.74%	
COVERAGE (%)	60%	N/A	24.0%	
LANDSCAPING	40%	N/A	76.0%	
FRONT 40% OF ANY YARD SHALL BE LANDSCAPED OR LEFT IN A NATURAL STARE (50% ABUTTING RESIDENTIAL USE)				
FRONT 100 X.4	40 FT		50.3 FT	
SIDE 40 X.4 (ABUT RESIDENTIAL)	16 FT		20.8 FT	
SIDE 40 X.5 (ABUT RESIDENTIAL)	40 FT		20.8 FT	
REAR 50 X.4 (ABUT RESIDENTIAL)	20 FT		38.6 FT	
PARKING	V.4.A.1.G. FOR WHOLESALE, STORAGE OR INDUSTRIAL ESTABLISHMENTS, ONE PARKING SPACE FOR EVERY THREE PERSONS EMPLOYED AT ANY ONE PEAK PERIOD. 9 EMPLOYEES			
V.4.A.1.E. FOR OFFICE BUILDINGS, ONE PARKING SPACE FOR EVERY SIX HUNDRED SQUARE FEET OF RENTABLE SPACE				
(COMMERCIAL) 1SP/3 EMPLOYEES x 9 EMPLOYEES	REQUIRED 3 SPACES	PROPOSED 7 SPACES		
OFFICE 1SP/600 SF * (5000 SF PROPOSED)	9 SPACES	10 SPACES		
TOTAL	12 SPACES	17 SPACES		

FOR REGISTRY USE ONLY



ZONING VARIANCE REQUEST

- SECTION N.2.D.4 (FRONT YARDS) - BUILDINGS, STRUCTURES AND PAVED AREAS OTHER THAN ACCESS WAYS SHALL BE LOCATED 100 FT FROM THE FRONT LOT LINE. PARKING PROPOSED 50 FT AND BUILDING PROPOSED 50 FT FROM FRONT LOT LINE.
- SECTION N.2.D.5 (SIDE YARDS) - BUILDINGS, STRUCTURES AND PAVED AREAS OTHER THAN ACCESS WAYS SHALL BE LOCATED 40 FT FROM THE FRONT LOT LINE. PARKING AND RETAINING WALL PROPOSED 10 FT FROM SIDE YARD LINE.

SPECIAL PERMIT REQUEST

- SECTION N.2.B.2 (OUTDOOR STORAGE) - ALLOWED BY SPECIAL PERMIT BUT NO CLOSER THAN 40 FT OF THE WAY LINE.

SITE PLAN APPROVAL REQUEST

SECTION V.7.B - NO STRUCTURE SHALL HEREAFTER BE CONSTRUCTED, ERECTED, RELOCATED, OR EXTERNALLY ENLARGED AND NO USE SHALL BE ESTABLISHED, ADDED, CHANGED, OR EXPANDED IN ANY DISTRICT EXCEPT IN CONFORMANCE WITH A SITE PLAN REVIEW, AND CONDITIONS THEREON, APPROVED BY THE PLANNING BOARD.

WAIVER REQUEST

- SECTION VI 4.15 DEVELOPMENT IMPACT STATEMENT - REQUIRED FOR COMMERCIAL PROJECTS OF 5,000 S.F. OR MORE.
- SECTION IV 4.22 TRAFFIC IMPACT STUDY - PREPARED BY REGISTERED PROFESSIONAL TRAFFIC ENGINEER
- SECTION V 5.4 PARKING AND LOADING - VERTICAL GRANITE CURBING AT ACCESS DRIVE RADII
- SECTION V.5.7.1 ACCESS CONNECTIONS - ACCESS CONNECTION SPACING TABLE (FROM 350' TO 285').
- SECTION V.5.1.6 50 FT BUFFER TO RESIDENTIAL PROPERTIES - 50 FT LANDSCAPE BUFFER TO BE PROVIDED TO ALL RESIDENTIAL ABUTTING PROPERTIES (ZBL REQUIRES 40 FT)

PEMBROKE PLANNING BOARD

THIS SITE PLAN DOES NOT NECESSARILY INDICATE COMPLIANCE WITH THE PEMBROKE ZONING BYLAW

DATE APPROVED: _____

DATE SIGNED: _____

SHEET INDEX

- | | |
|----------|--------------------------------------|
| SHEET 1 | ZONING |
| SHEET 2 | EXISTING CONDITIONS |
| SHEET 3 | GRADING |
| SHEET 4 | SEPTIC |
| SHEET 5 | UTILITIES & DRAINAGE |
| SHEET 6 | LANDSCAPE, LIGHTING, & SITE DISTANCE |
| SHEET 7 | DETAILS |
| SHEET 8 | DETAILS |
| SHEET 9 | DETAILS |
| SHEET 10 | EROSION CONTROL PLAN |

PEMBROKE TOWN CLERK

I, TOWN CLERK OF THE TOWN OF PEMBROKE, MA HEREBY CERTIFY THAT THE NOTICE OF APPROVAL OF THIS PLAN BY THE PLANNING BOARD HAS BEEN RECEIVED AND RECORDED AT THIS OFFICE AND NO APPEAL WAS RECEIVED DURING THE NEXT TWENTY DAYS AFTER RECEIPT AND RECORDING OF SAID NOTICE.

DATE: _____

TOWN CLERK, TOWN OF PEMBROKE:

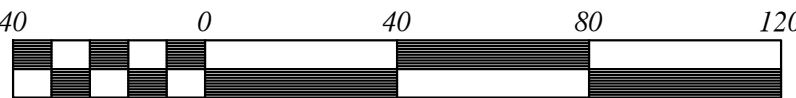
SITE PLAN WILDLAND TIMBER

#715 WASHINGTON STREET
(ASSESSORS MAP F9 LOT 24)
PEMBROKE, MASSACHUSETTS

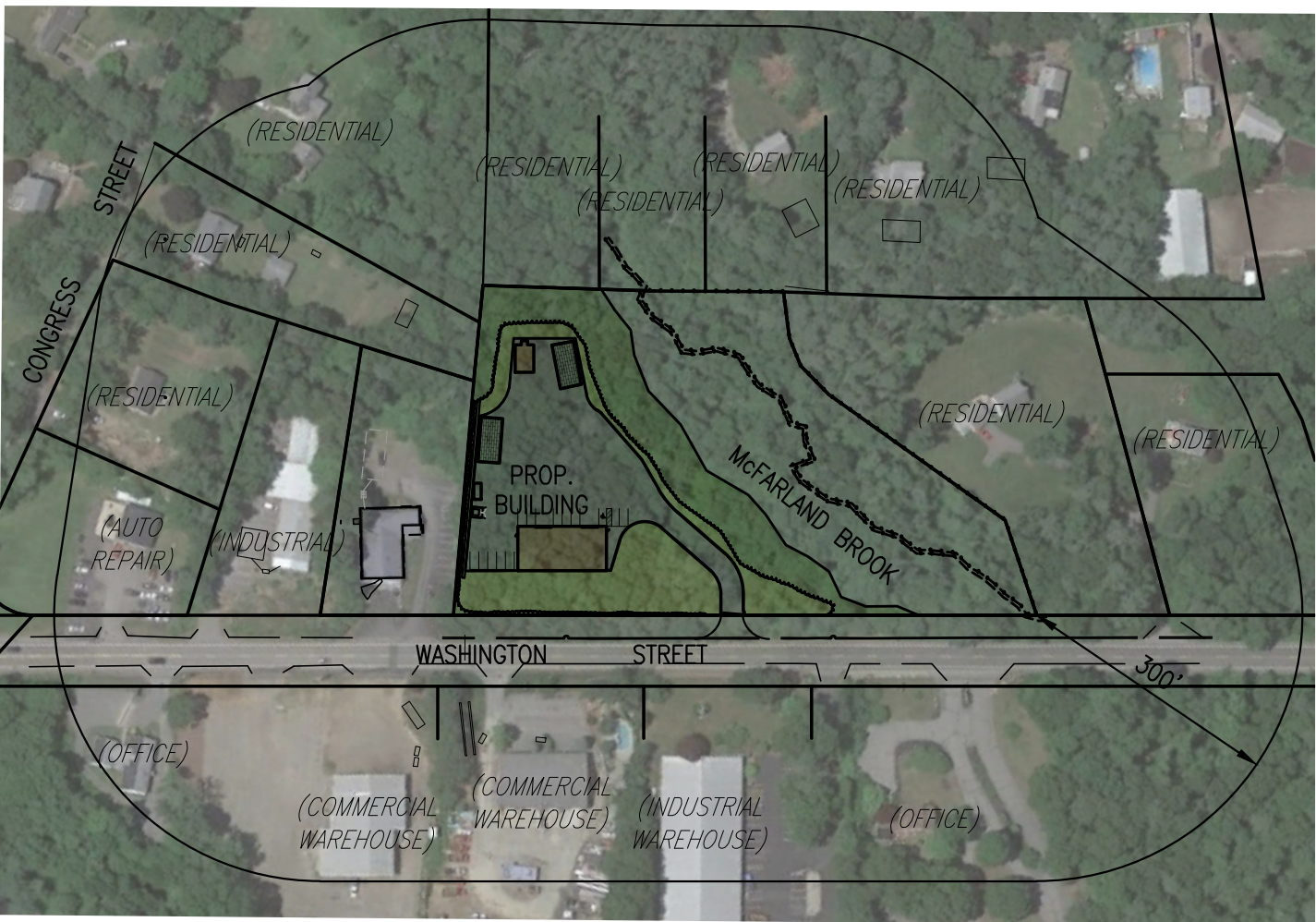
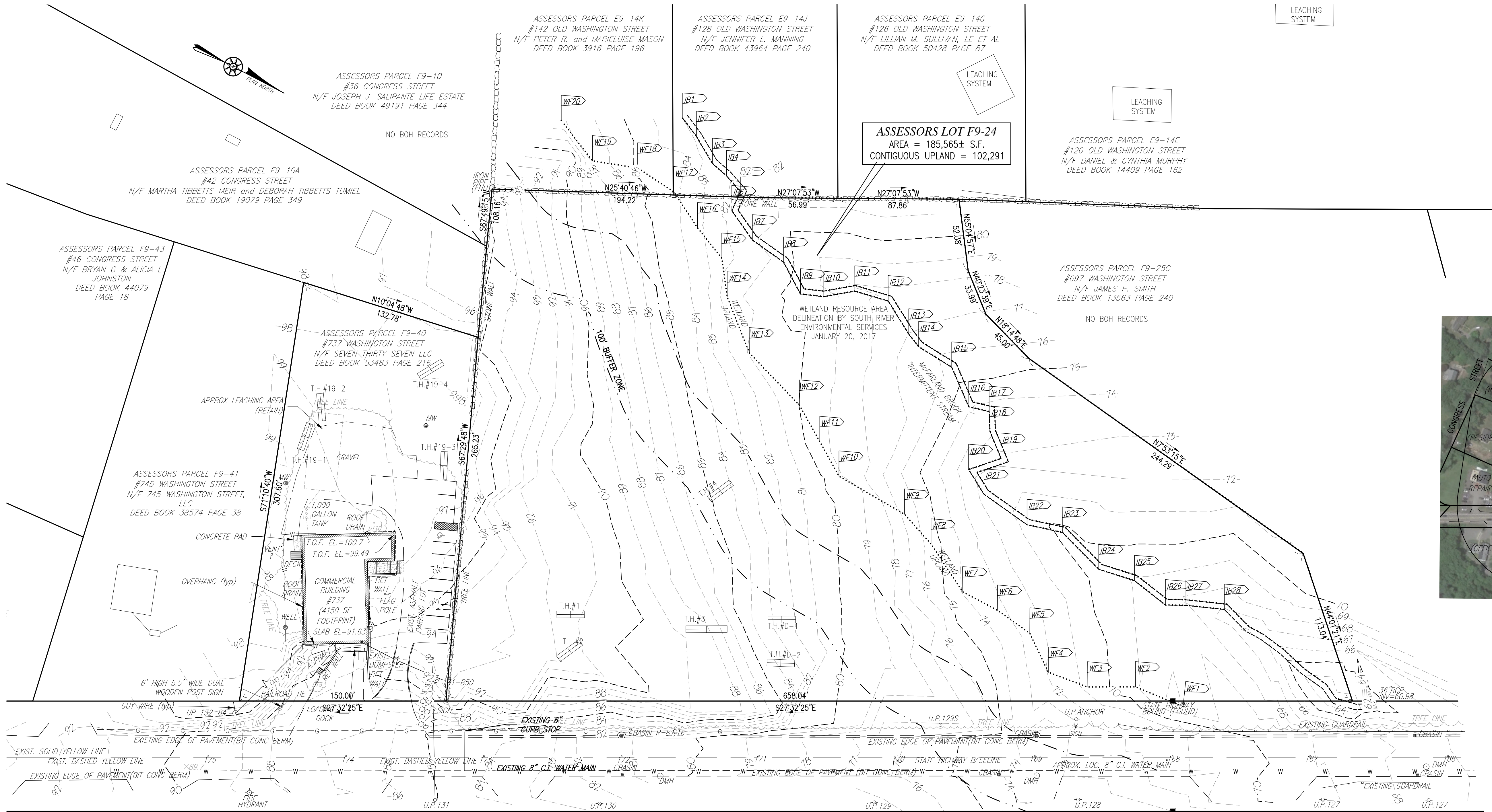
PREPARED FOR:
GEORGE THIBEAULT
599 SUMMER STREET
MARSHFIELD, MA 02050

JANUARY 11, 2021
SCALE: 1"=40'
JOB No. 20-365

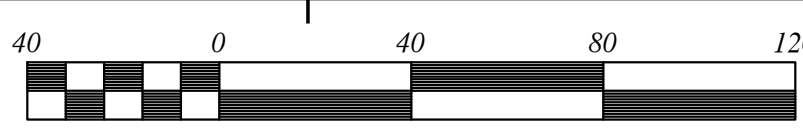
GRADY CONSULTING, L.L.C.
Civil Engineers and Land Surveyors
71 Evergreen Street, Suite 1, Kingston, MA 02364
Phone (781) 585-2300 Fax (781) 585-2378



Scale 1" = 40'



VICINITY MAP WITHIN 300 FT
SCALE: 1"=200'

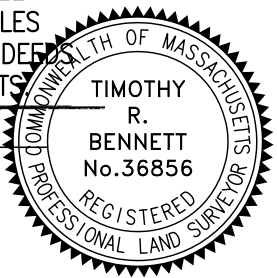


Scale 1" = 40'

SOIL LOGS

T.H.#D-1 EL. 83.10	T.H.#D-2 EL. 84.25	T.H.#1 EL. 91.90	T.H.#2 EL. 92.20	T.H.#3 EL. 88.50	T.H.#4 EL. 85.00	T.H.#19-1 EL. 99.10	T.H.#19-2 EL. 98.90	T.H.#19-3 EL. 97.50	T.H.#19-4 EL. 98.20
0'-8" A LOAM	0'-6" A LOAM	0'-6" A LOAM	0'-6" A LOAM	0'-6" A LOAM	0'-8" A LOAM	0'-32" FILL	0'-24" FILL	0'-24" FILL	0'-6" A LOAM
82.43	83.58	91.40	91.70	88.00	84.33	96.43	96.90	95.50	97.70
8"-30" B SANDY LOAM	8"-28" B SANDY LOAM	6"-22" B SANDY LOAM	6"-22" B SANDY LOAM	6"-18" B SANDY LOAM	8"-24" B SANDY LOAM	32"-36" A LOAM	24"-30" A LOAM	24"-30" A LOAM	6"-30" B LOAMY SAND
81.60	81.92	90.07	90.37	87.00	83.00	96.10	96.40	95.00	95.70
30"-84" C1 GRAVELLY SANDY LOAM	28"-60" C1 GRAVELLY SANDY LOAM	22"-48" C1 GRAVELLY SAND	22"-48" C1 GRAVELLY SAND	18"-60" C1 GRAVELLY SAND	24"-60" C1 GRAVELLY SAND	36"-40" B LOAMY SAND	30"-84" C1 MED SAND	30"-40" B LOAMY SAND	30"-120" C LOAMY SAND
(REMOVE)	(REMOVE)	48"-96" C2 GRAVELLY SANDY LOAM	48"-96" C2 GRAVELLY SANDY LOAM	60"-108" C2 GRAVELLY SANDY LOAM	60"-90" C2 GRAVELLY SANDY LOAM	95.77 PERC @ 40"-58" P.R.=8 MIN\IN	94.17	94.17	
76.10	79.25	83.90	84.20	79.50	77.50	88.10	88.90	91.50	
84"-120" C2 MEDIUM SAND BOULDERS	60"-108" C2 MEDIUM SAND BOULDERS	96"-152" C3 MEDIUM SAND	96"-180" C3 MEDIUM SAND	108"-126" D=9'-0"	90"-108" C3 MEDIUM SAND				
73.10	75.25	79.23	77.20	77.20	76.00				
D=10'-0" NO WATER	D=9'-0" NO WATER	D=12'-8" NO WATER	D=15'-0" NO WATER	NO WATER	NO WATER				

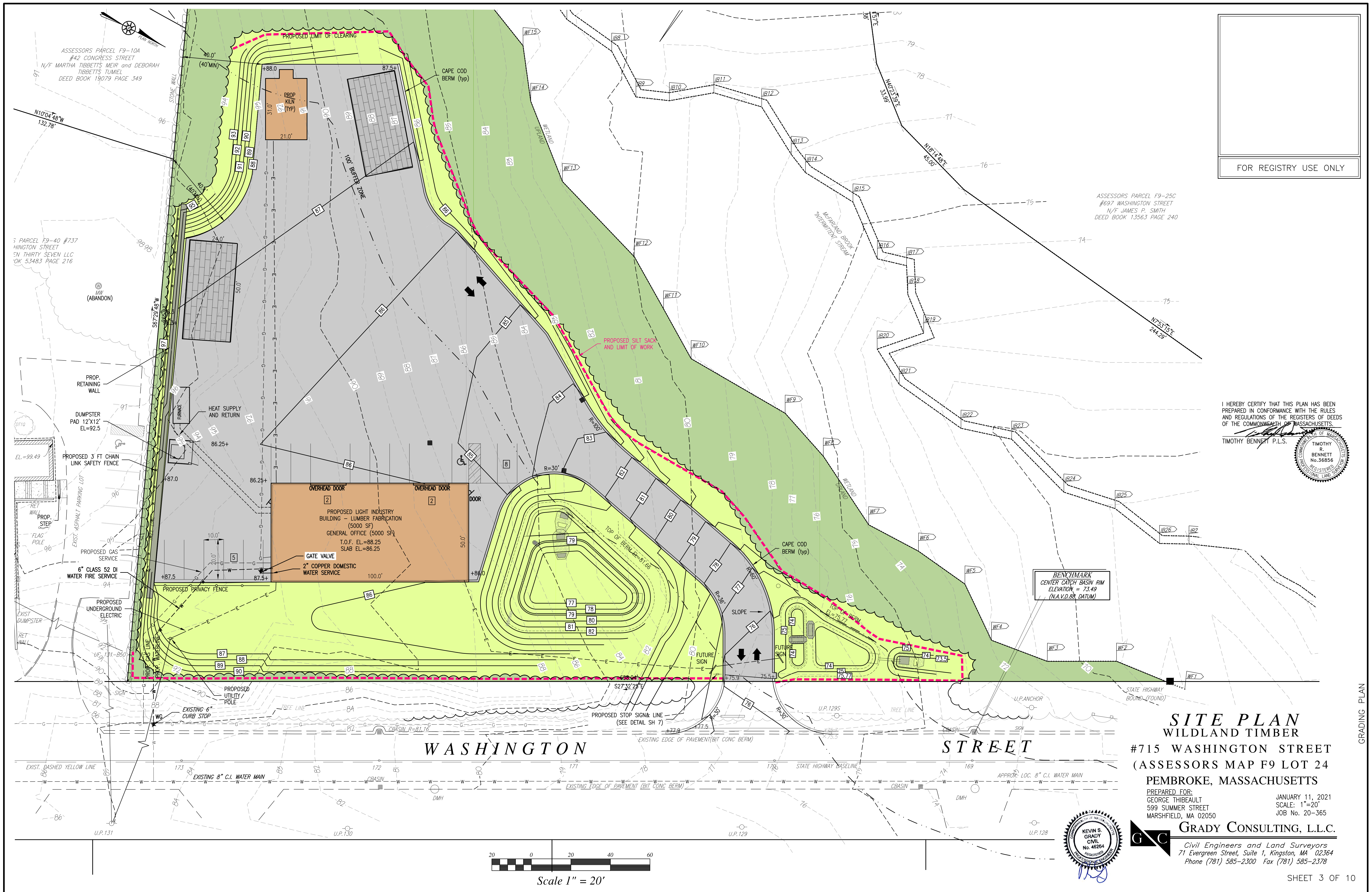
I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN CONFORMANCE WITH THE RULES AND REGULATIONS OF THE REGISTER OF DEEDS OF THE COMMONWEALTH OF MASSACHUSETTS.
TIMOTHY BENNETT P.L.L.C.



SITE PLAN
WILDLAND TIMBER
#715 WASHINGTON STREET
(ASSESSORS MAP F9 LOT 24)
PEMBROKE, MASSACHUSETTS
PREPARED FOR:
GEORGE THIBEAULT
599 SUMMER STREET
MARSHFIELD, MA 02050
JANUARY 11, 2021
SCALE: 1"=40'
JOB No. 20-365
GRADY CONSULTING, L.L.C.
Civil Engineers and Land Surveyors
71 Evergreen Street, Suite 1, Kingston, MA 02364
Phone (781) 585-2300 Fax (781) 585-2378



EXISTING CONDITIONS



FOR REGISTRY USE ONLY

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TIMOTHY BENNETT P.L.S.

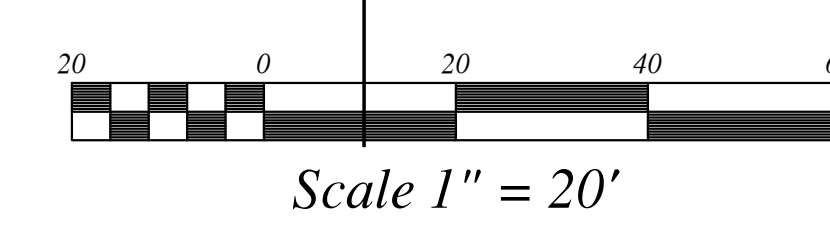
TIMOTHY R. BENNETT
No. 36856
REGISTERED PROFESSIONAL LAND SURVEYOR

SITE PLAN
WILDLAND TIMBER
#715 WASHINGTON STREET
(ASSESSORS MAP F9 LOT 24
PEMBROKE, MASSACHUSETTS

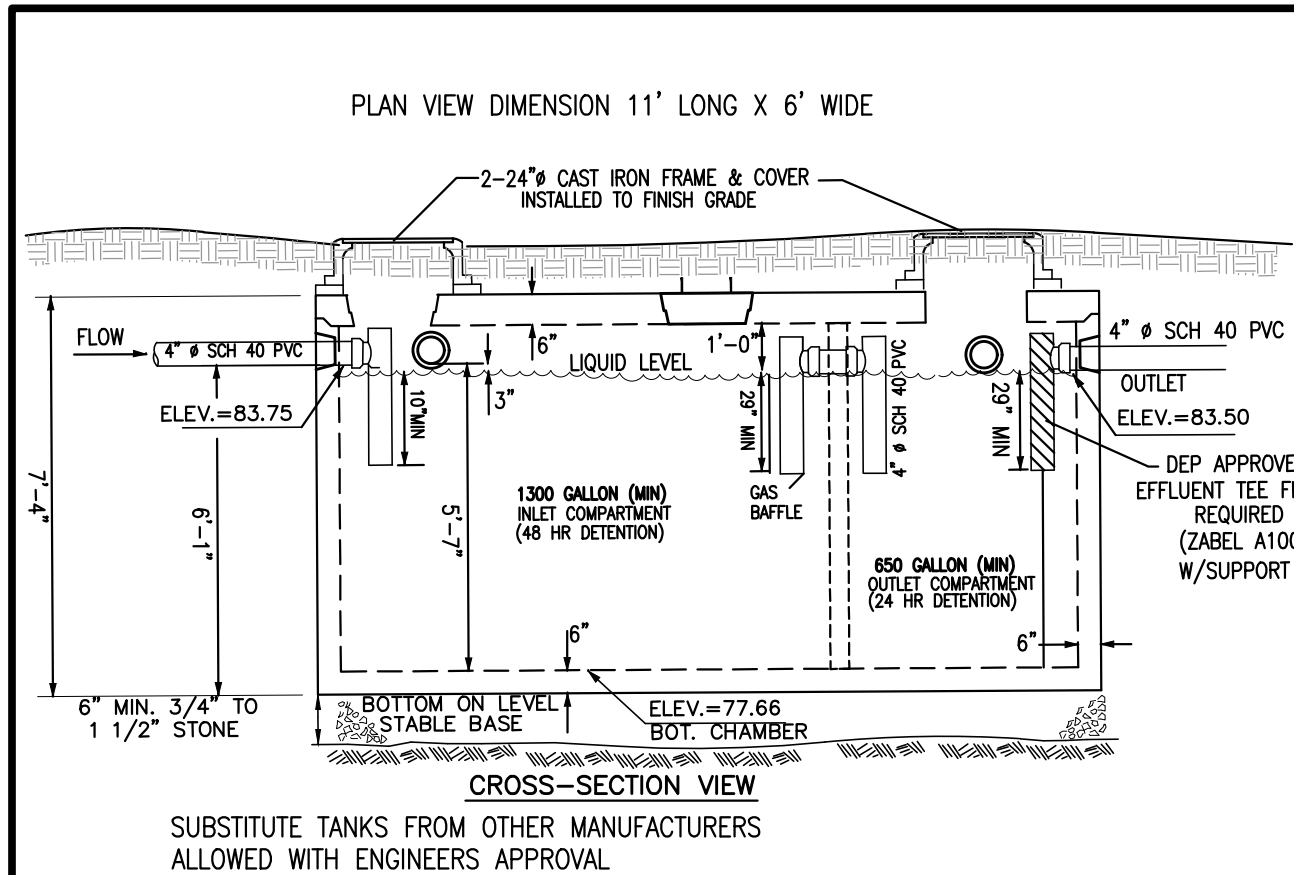
PREPARED FOR:
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JANUARY 11, 2021
SCALE: 1"=20'
JOB No. 20-365

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GRADING PLAN

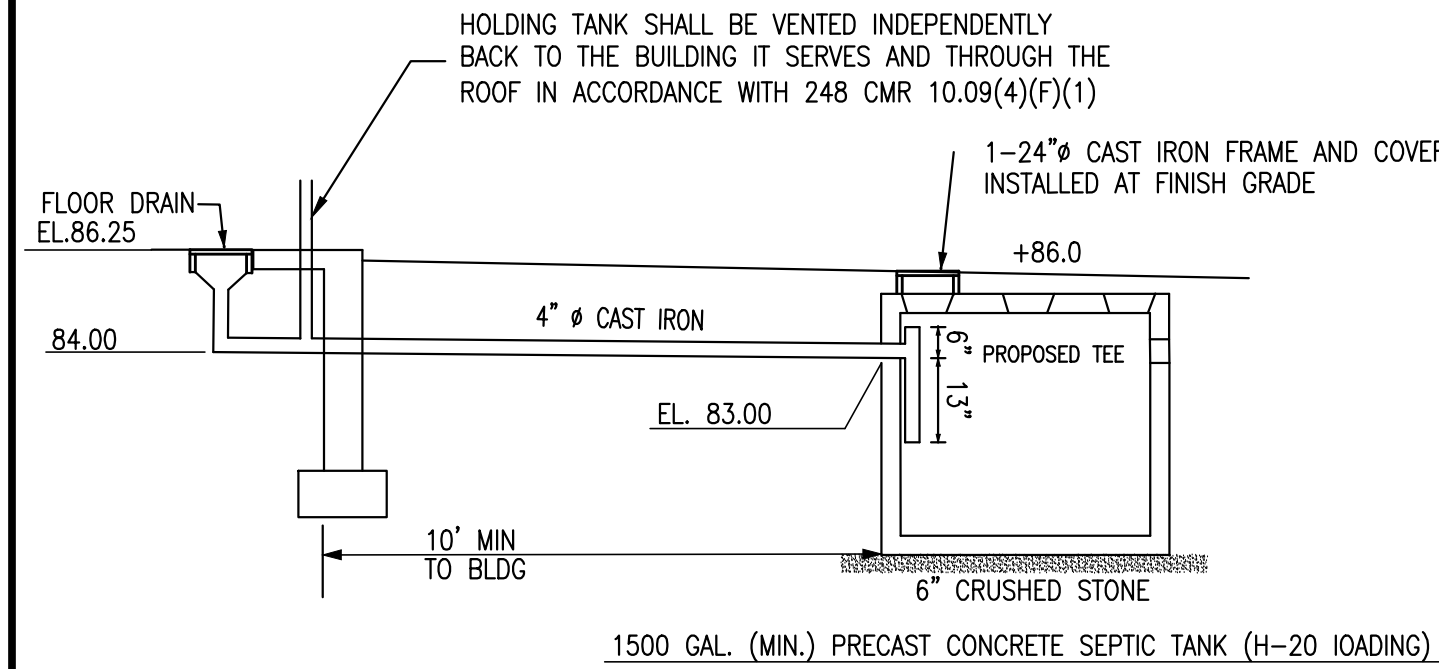


2000 GALLON 2-COMPARTMENT SEPTIC TANK
(NOT TO SCALE)

NOTES:
CONCRETE TANK: T-2000 H-20
CONCRETE: 5,000 PSI AFTER 28 DAYS
REINFORCEMENT PER ASTM C1227-93
DISTRIBUTED THROUGH PEMBROKE CONCRETE PRODUCTS INC.(781-826-6463)

PLASTIC TANK: ROTH MODEL NO. RMT-1060
DISTRIBUTED THROUGH CAPE COD WINNATER WORKS(508-862-0166)

INSTALLER TO COORDINATE WITH PEMBROKE CONCRETE PRODUCTS INC. & CAPE COD WINNATER WORKS FOR CONSTRUCTION OF THE HOLDING TANK.

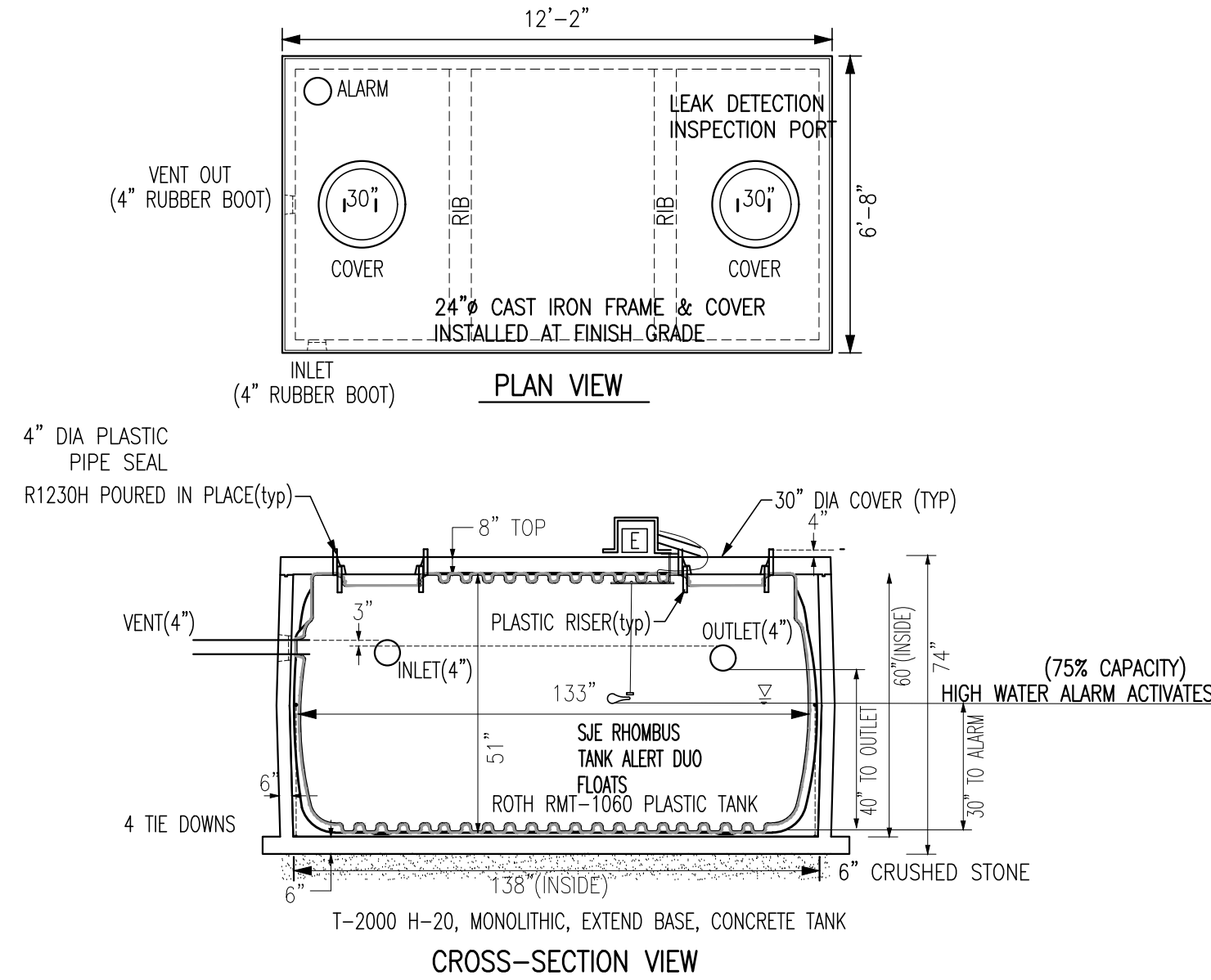


HOLDING TANK PROFILE

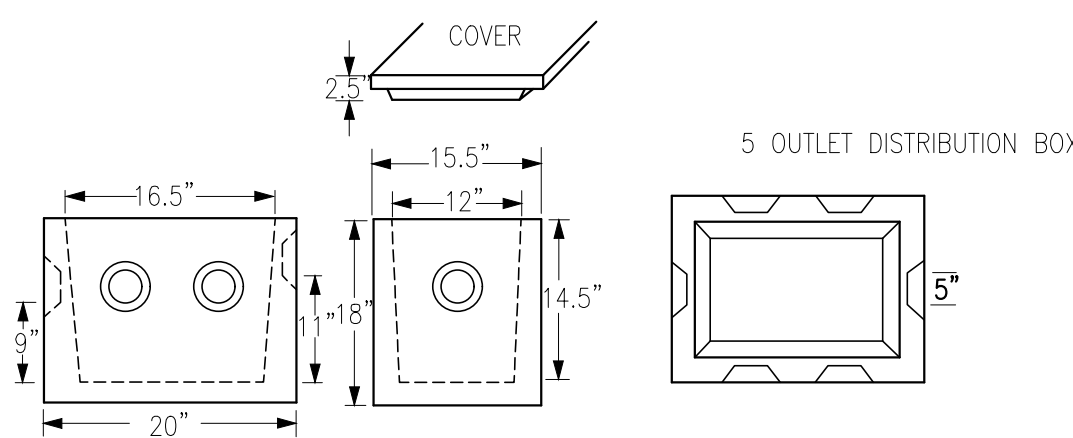
SPECIAL INSTRUCTIONS & NOTES FOR HOLDING TANK INSTALLATION:

1. THE TANK SHALL BE INSTALLED ONTO A LEVEL (AND COMPACTED) BED OF SAND.
2. HOLDING TANK TO BE INSPECTED EVERY 3 MONTHS TO ENSURE PROPER OPERATION AND MAINTENANCE 310 CMR 15.260 (I).
3. THE HOLDING TANK WILL BE WATERPROOF AND WATERTIGHT 310 CMR 15.260(J).
4. VENTING SHALL BE PROVIDED THROUGH THE ROOF OF THE BUILDING IN ACCORDANCE WITH THE MASSACHUSETTS PLUMBING CODE.
5. INSTALL RHOMBUS TANK ALERT 2 HIGHWATER ALARM WITH SLIDE RAIL FLOAT.
6. A PLAQUE OR SIGN WITH "NON-HAZARDOUS INDUSTRIAL WASTEWATER" SHALL BE INSTALLED NEAR TANK.

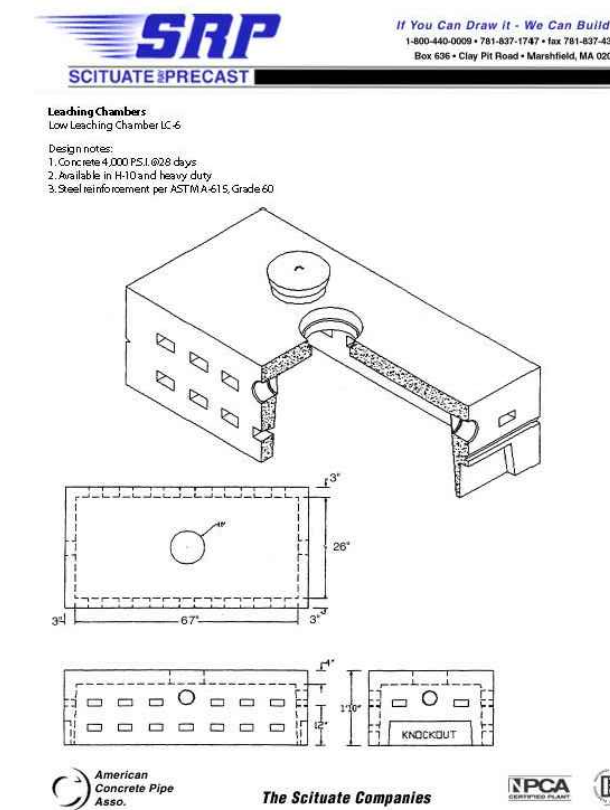
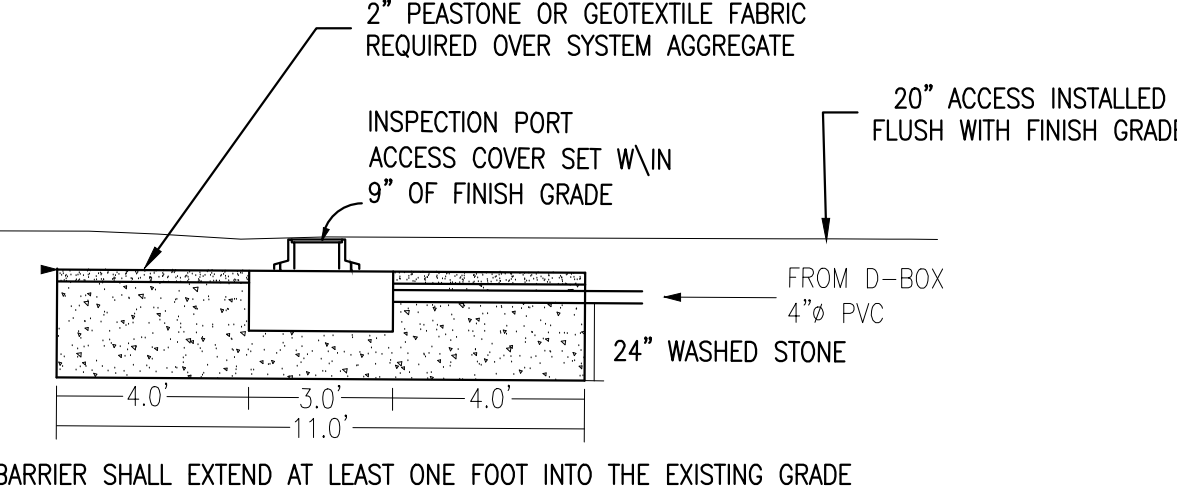
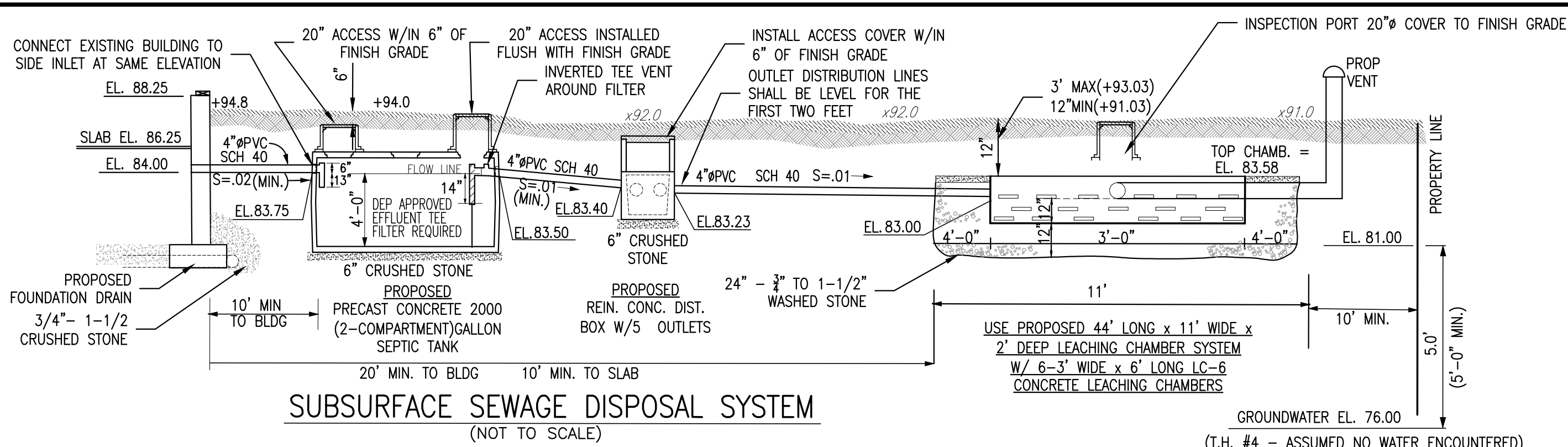
FAILURE BY THE APPLICANT TO PROPERLY MAINTAIN THE HOLDING TANK MAY CONSTITUTE GROUNDS FOR THE REVOCATION OF THE HOLDING TANK PERMIT.



T.H.#1 EL. 91.90	T.H.#2 EL. 92.20	T.H.#3 EL. 88.00	T.H.#4 EL. 85.00
0'-6" A LOAM	0'-6" A LOAM	0'-6" A LOAM	0'-8" A LOAM
6'-22" B SANDY LOAM	6'-22" B SANDY LOAM	6'-18" B SANDY LOAM	8'-24" B SANDY LOAM
22'-48" C1 GRAVELLY SAND	22'-48" C1 GRAVELLY SAND	18'-60" C1 GRAVELLY SAND	24'-60" C1 GRAVELLY SAND
48'-96" C2 GRAVELLY SANDY LOAM	48'-96" C2 GRAVELLY SANDY LOAM	60'-108" C2 GRAVELLY SANDY LOAM	60'-90" C2 GRAVELLY SANDY LOAM
96'-152" C3 MEDIUM SAND	96'-180" C3 MEDIUM SAND	108'-126" C3 MEDIUM SAND	90'-108" C3 MEDIUM SAND
D=12'-8"	D=15'-0"	D=9'-0"	D=9'-0"
NO WATER	NO WATER	NO WATER	NO WATER



D-BOX DETAIL
(NOT TO SCALE)



SEPTIC DESIGN (NOT DESIGNED FOR GARBAGE GRINDER)

1. DESIGN DAILY FLOW:
OFFICE: 5,000 S.F. x 75 GPD/1000 S.F. = 375 GPD
WAREHOUSE: 9 PROJECTED EMPLOYEES x 15 GPD/EMPLOYEE = 135 GPD
(WITHOUT CAFETERIA) TOTAL = 510 GPD
2. SEPTIC TANK: 510 GPD x 2 = 1020 GAL. USE: 1500 GAL (MIN)
2 COMPARTMENT TANK (SEE DETAIL)
3. LEACHING CHAMBERS: P.R. <2 MIN/IN CLASS I

TOTAL: 1-44' LONG X 11' WIDE X 2' DEEP LEACHING CHAMBER SYSTEM

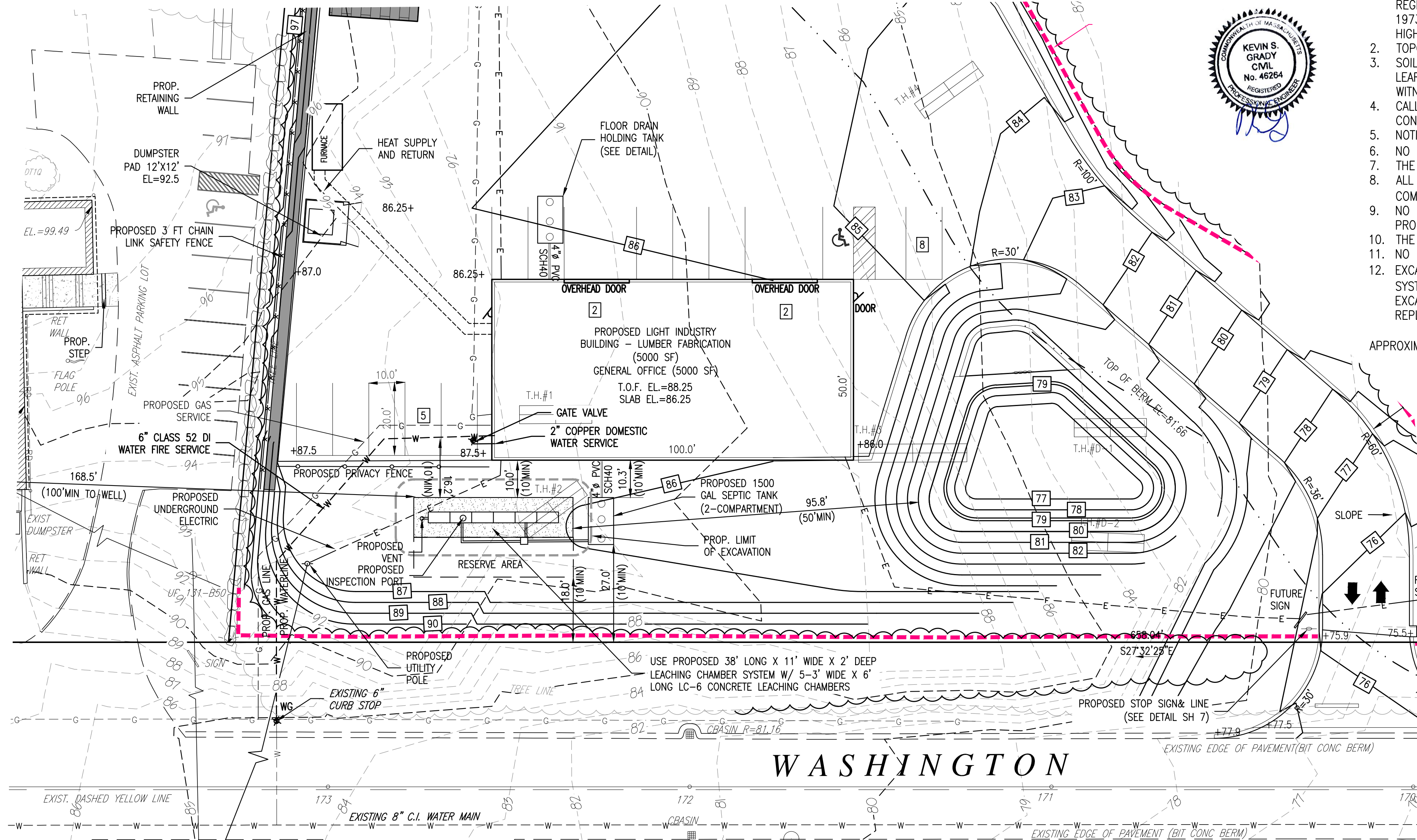
TITLE 5

PROPOSED AREA: 2(2X11) + 2(2X44) + (11X44) = 704 SF
CAPACITY: 704 S.F. X 0.74 GPD/S.F. = 520 > 510 GPD(D.D.F.)

SEPTIC NOTES

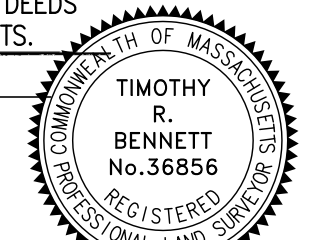
1. PROPERTY LINE DATA FROM THE FOLLOWING PLANS RECORDED AT PLYMOUTH COUNTY REGISTRY OF DEEDS: PLAN No. 282 OF 1956, PLAN No. 561 OF 1973, PLAN No. 663 OF 1973, PLAN No. 226 OF 1994, PLAN No. 308 OF 1995, AND MASSACHUSETTS STATE HIGHWAY LAYOUT No. 2771.
2. TOPOGRAPHIC SURVEY BY GRADY CONSULTING JANUARY 2017 & DECEMBER 2020.
3. SOILS TESTING BY KEVIN GRADY, GRADY CONSULTING WITNESSED BY HEALTH AGENT FRED LEARY AUGUST 14, 2007. ADDITIONAL TESTING BY KEVIN GRADY, GRADY CONSULTING WITNESSED BY HEALTH AGENT LISA CULLITY AUGUST 9, 2019.
4. CALL DIG SAFE 1-888-344-7233 AT LEAST 4 DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
5. NOTIFY TOWN AND GRADY CONSULTING PRIOR TO BACKFILLING OF SYSTEM.
6. NO KNOWN WELLS EXIST WITHIN 200' OF THE PROPOSED SYSTEM.
7. THE SITE IS NOT LOCATED IN AN AQUIFER PROTECTION ZONE II.
8. ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE OR A COMPARABLE MEANS IN ORDER TO LOCATE THEM ONCE BURIED (310 CMR 15.221(12)).
9. NO STREAMS, SURFACE & SUBSURFACE DRAINS AND WETLANDS EXIST WITHIN 100 FT OF THE PROPOSED SYSTEM, EXCEPT AS SHOWN.
10. THE SITE IS NOT LOCATED IN A FLOOD PLAIN DISTRICT.
11. NO KNOWN EASEMENTS ARE IN THE AREA OF THE PROPOSED SYSTEM.
12. EXCAVATE ALL MATERIAL (A,B, C1, C2 LAYERS) TO FINE SAND C3 LAYER (96"±), 5' AROUND SYSTEM. REPLACE WITH CLEAN COARSE SAND IN ACCORDANCE WITH 310 CMR 15.255 (3). EXCAVATION TO BE INSPECTED BY GRADY CONSULTING L.L.C. AND TOWN PRIOR TO SOIL REPLACEMENT

APPROXIMATE PERC SAND VOLUME = 484 SF X (84.2 - 83.5) / 27 + 20% = 20± C.Y.

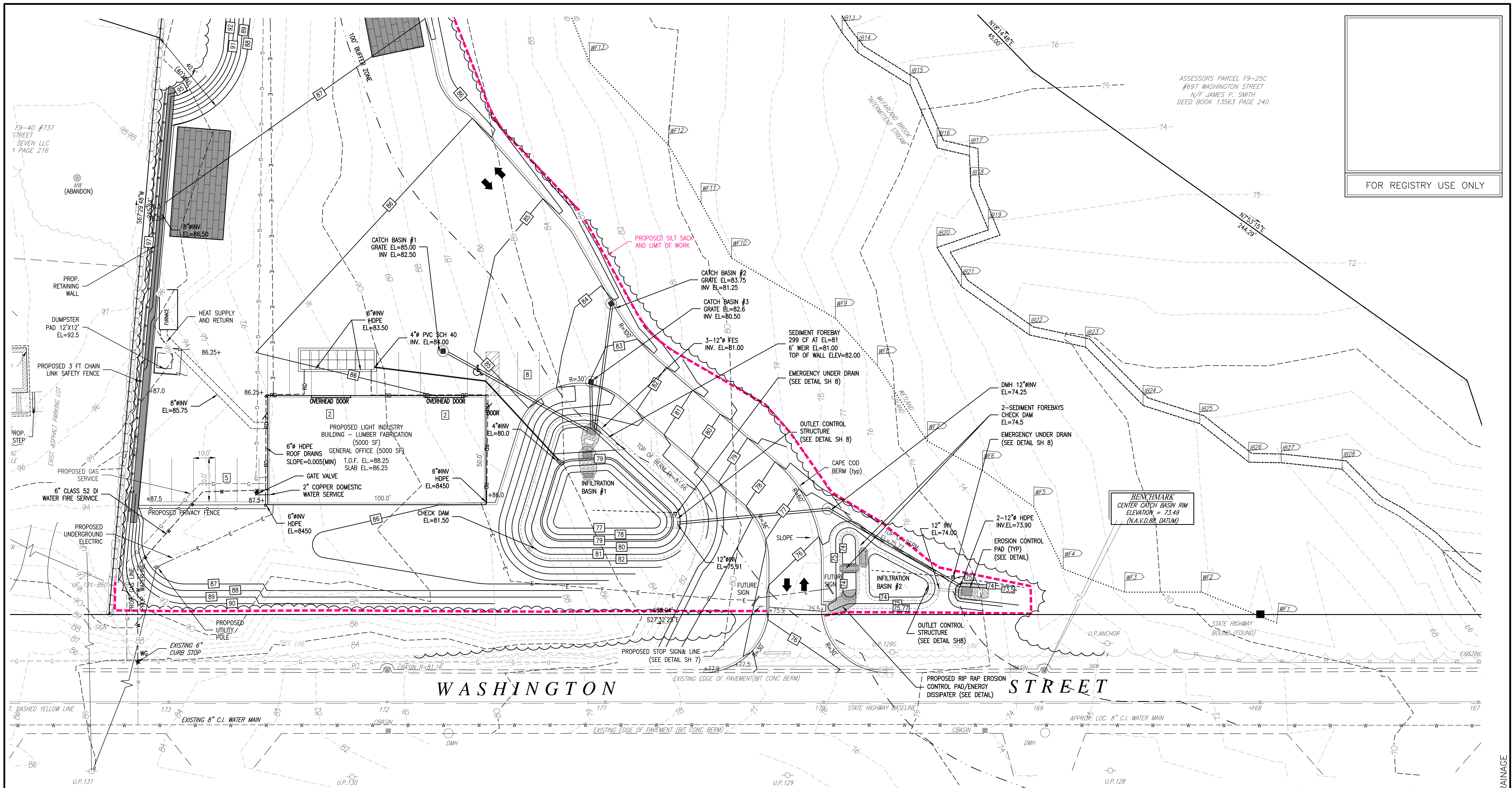


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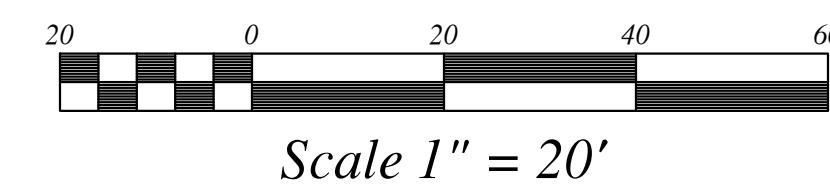
TIMOTHY BENNETT P.L.S.



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#715 WASHINGTON STREET
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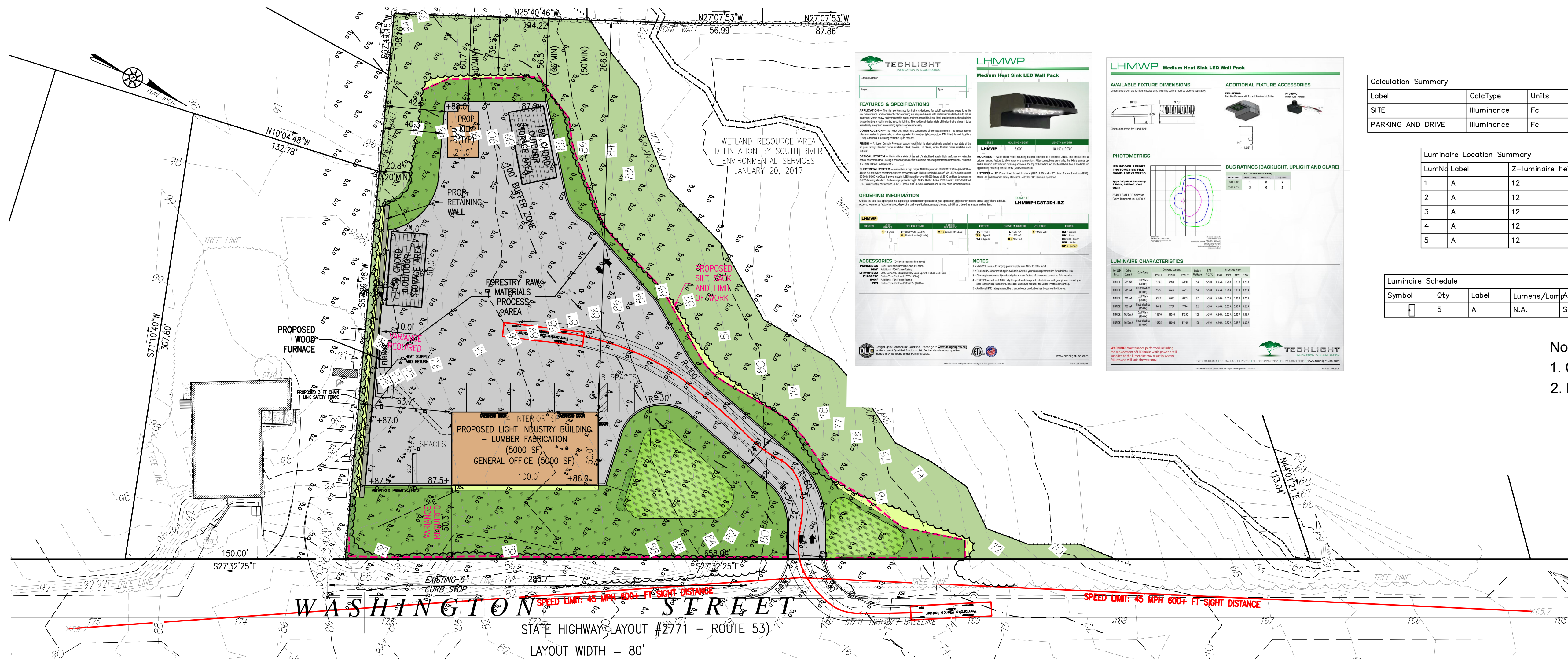


SITE PLAN
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TIMOTHY R. BENNETT
No. 56856
REGISTERED PROFESSIONAL LAND SURVEYOR
TIMOTHY BENNETT P.L.S.





TECHLIGHT LHMWP
Medium Heat Sink LED Wall Pack

FEATURES & SPECIFICATIONS

- AVAILABLE FIXTURE DIMENSIONS
- PHOTOMETRICS
- BUG RATINGS (BACKLIGHT, UPLIGHT AND GLARE)
- LUMINAIRE CHARACTERISTICS

ACCESSORIES

NOTES

ORDERING INFORMATION

TECHLIGHT

TECHLIGHT LHMWP
Medium Heat Sink LED Wall Pack

AVAILABLE FIXTURE DIMENSIONS

PHOTOMETRICS

BUG RATINGS (BACKLIGHT, UPLIGHT AND GLARE)

LUMINAIRE CHARACTERISTICS

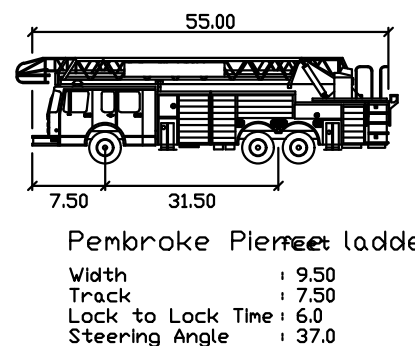
TECHLIGHT

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
SITE	Illuminance	Fc	0.25	10.0	0.0	N.A.	N.A.
PARKING AND DRIVE	Illuminance	Fc	0.99	7.2	0.0	N.A.	N.A.

Luminaire Location Summary			
Luminaire Label	Z-luminaire height	Height	Tilt
1	A	12	0
2	A	12	0
3	A	12	0
4	A	12	0
5	A	12	0

Luminaire Schedule					
Symbol	Qty	Label	Lumens/Lamp	Arrangement	Description
1	5	A	N.A.	SINGLE	LHMWP-1-N-M-T3-D-ONE BRICK TYPE 3 1050MA LED WALL PACK

- Notes:
- Calculation at grade.
 - Based on 12' AFG fixture mounting.

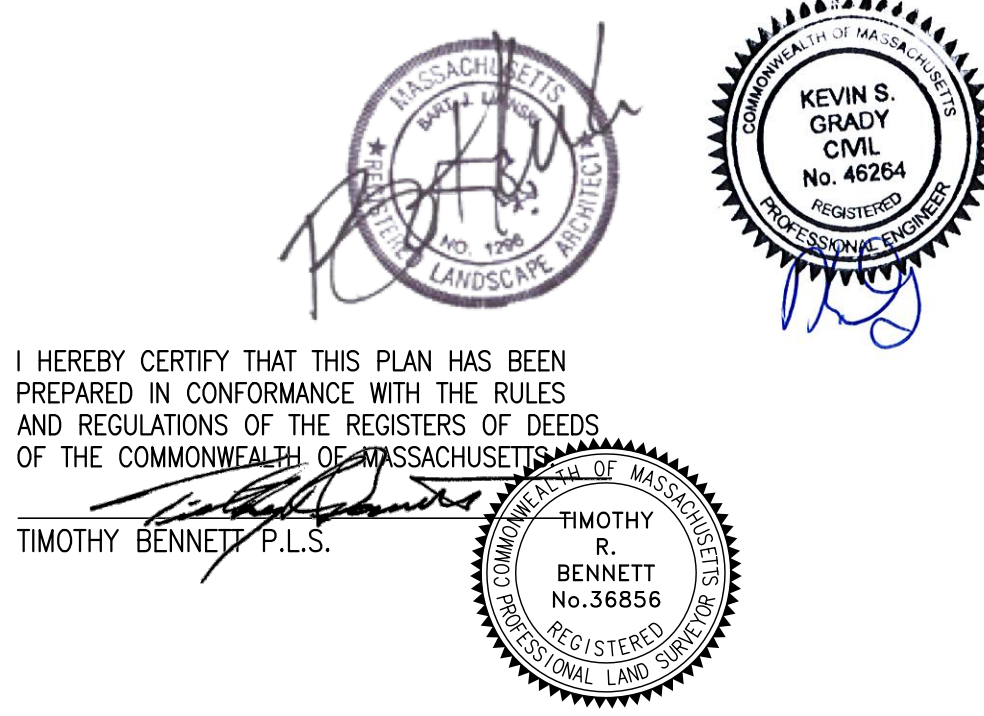


FIRE TRUCK DETAIL
NOT TO SCALE

- NOTES:
- SIGHT DISTANCES SHOWN HEREON ARE BASED UPON THE AASHTO TRAFFIC CODE
 - POSTED SPEED LIMIT IS 45 MPH
 - AASHTO SECTION 1340 DIAGRAM 3 REQUIRES A 500' STOPPING DISTANCE FROM A DRIVEWAY FOR A POSTED SPEED LIMIT OF 45 MPH
 - INTERSECTION LINE OF SIGHT MAY BE TAKEN FROM ANY POINT FROM 10' TO 18' OFF THE EDGE OF ROADWAY PAVEMENT PER AASHTO SECTION 1340
 - FOR INTERSECTION SIGHT DISTANCE STUDIES THE HEIGHT OF MOTORISTS EYE IS 3.5' AND THE HEIGHT OF APPROACHING OBJECT IS 3.5' PER AASHTO
 - FOR STOPPING SIGHT DISTANCE THE HEIGHT OF MOTORISTS EYE IS 3.5' AND THE HEIGHT OF OBJECT IS 2.0' PER AASHTO

PLANT SCHEDULE

DECIDUOUS TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE
GLE TRI	6		GLEDTISIA TRIACANTHOS INERMIS / THORNLESS COMMON HONEYLOCUST	B & B		2.5"-3.0" CAL.
SAL TR4	5		SALIX ALBA 'TRISTIS' / GOLDEN WEeping WILLOW	B & B		2.5"-3.0" CAL.
EVERGREEN TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE
JUN VIR	14		JUNPERUS VIRGINIANA / EASTERN RED CEDAR	B & B		5-6' HGT.
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	SIZE	SP
ILE SHA	19		ILEX GLABRA 'SHAMROCK' / INK BERRY	B & B		18-24" HGT.
GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	SPACING
NE WRM		22,538 SF	NE. NATIVE WARM SEASON GRASS MIX / LOAM, FINE GRADE & SEED	SEED		
NE WET		4,943 SF	NE. WET MIX / LOAM, FINE GRADE & SEED	SEED		

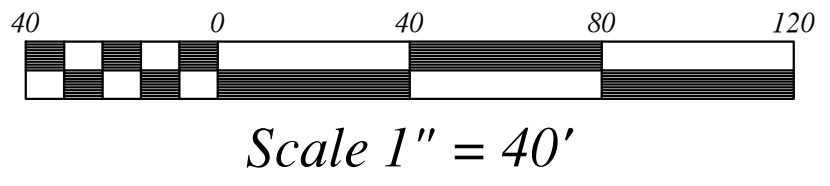


SITE PLAN
WILDLAND TIMBER
#715 WASHINGTON STREET
(ASSESSORS MAP F9 LOT 24)
PEMBROKE, MASSACHUSETTS

PREPARED FOR:
GEORGE THIBEAULT
599 SUMMER STREET
MARSHFIELD, MA 02050

JANUARY 11, 2021
SCALE: 1"=40'
JOB No. 20-365

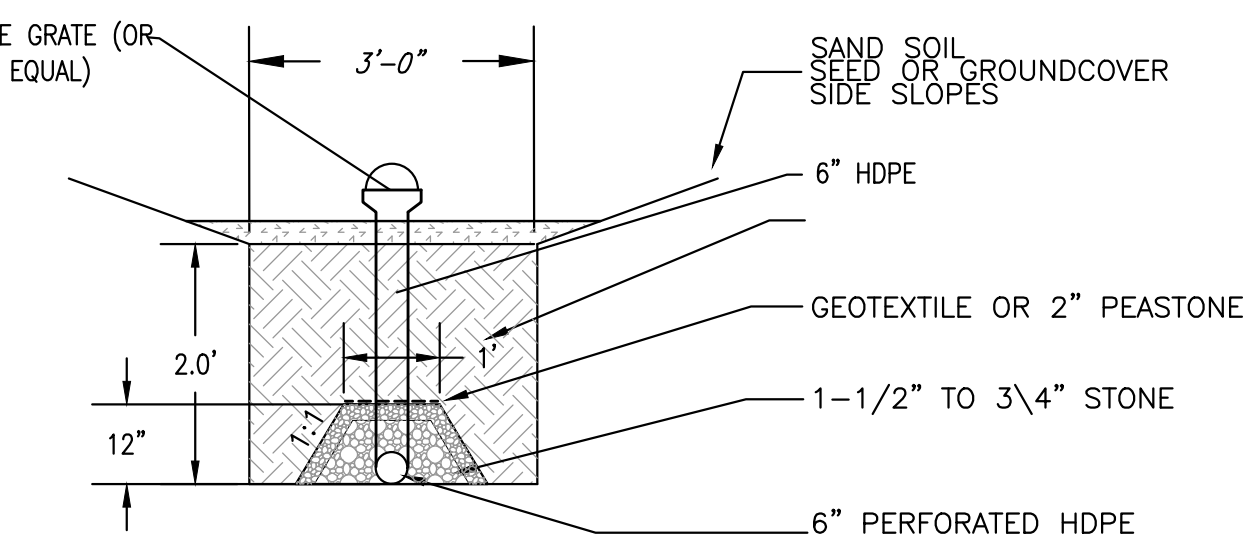
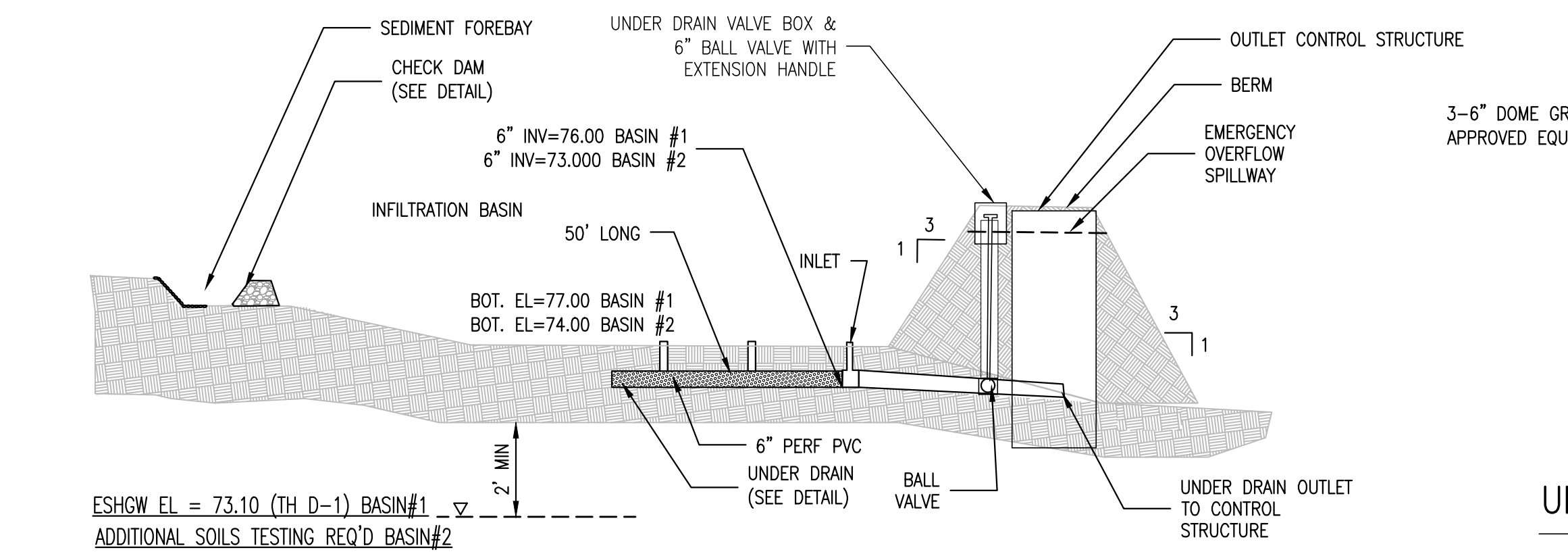
GRADY CONSULTING, L.L.C.
Civil Engineers and Land Surveyors
71 Evergreen Street, Suite 1, Kingston, MA 02364
Phone (781) 585-2300 Fax (781) 585-2378



Scale 1" = 40'

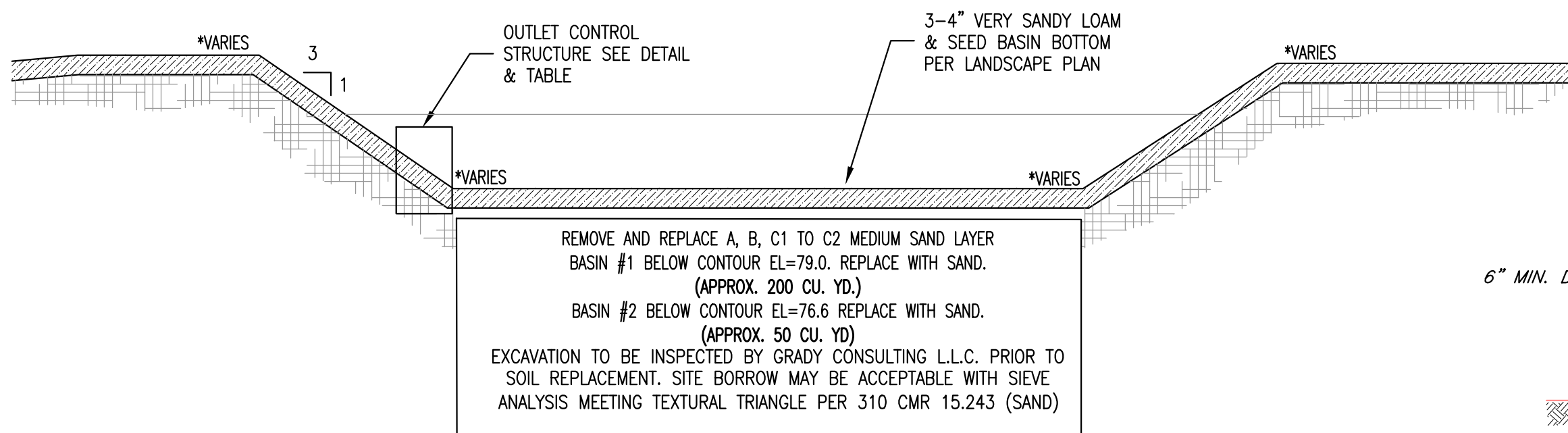
CONSTRUCTION NOTES

- ## DETAILS



UNDER DRAIN CROSS SECTION DETAIL

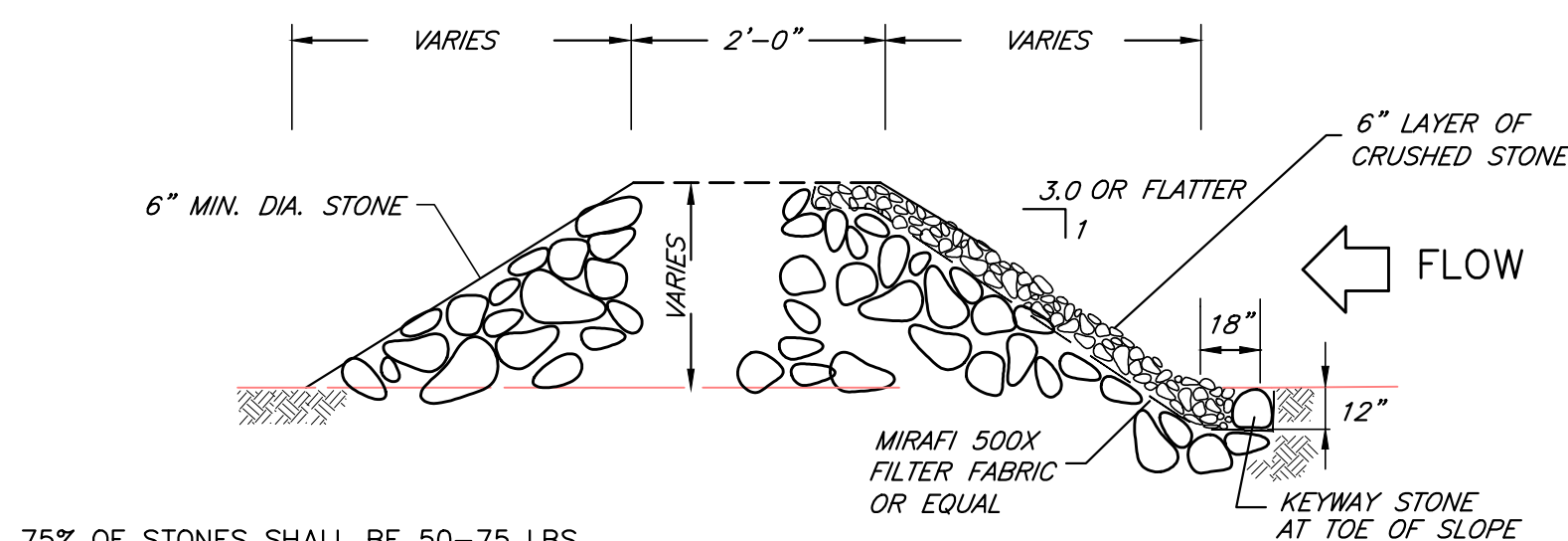
(NOT TO SCALE)



ELEVATION TABLE			
BASIN	BOTTOM BASIN	BASIN TOP BERM	GROUNDWATER
1	77.00	81.66	73.10(TH D-1)
2	74.00	75.77	TBD

BASIN DETAIL

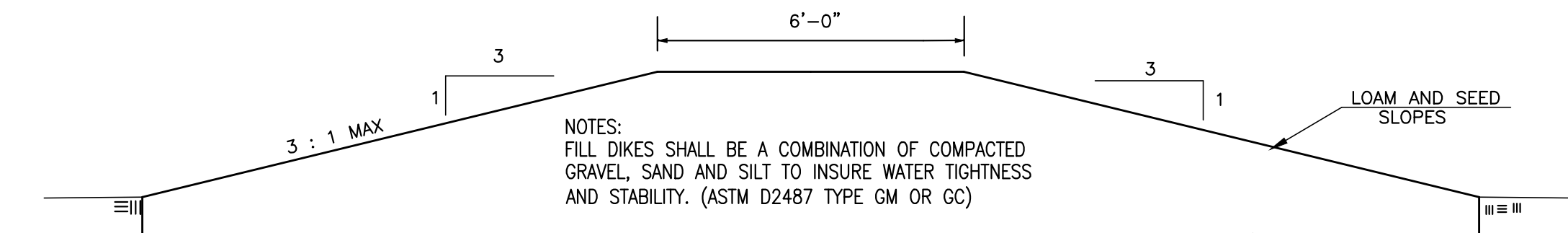
NOT TO SCALE



75% OF STONES SHALL BE 50-75 LBS. AND AS NEARLY RECTANGULAR AS POSSIBLE.

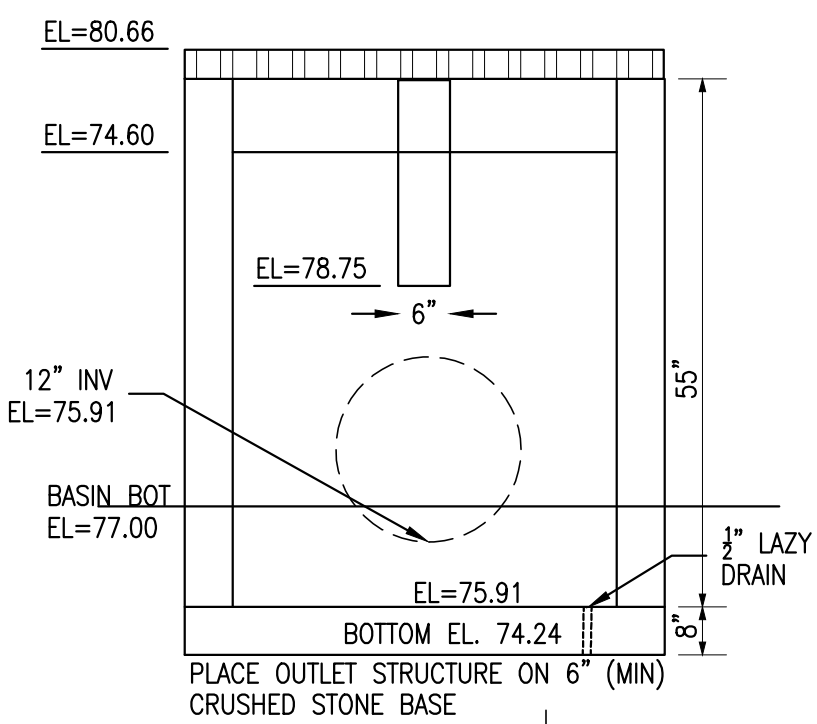
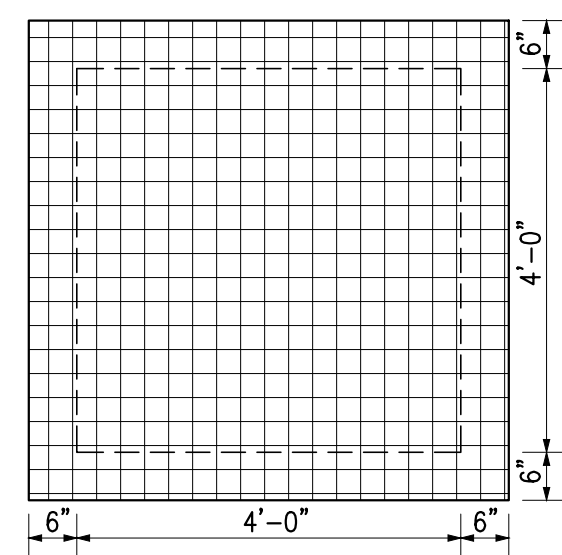
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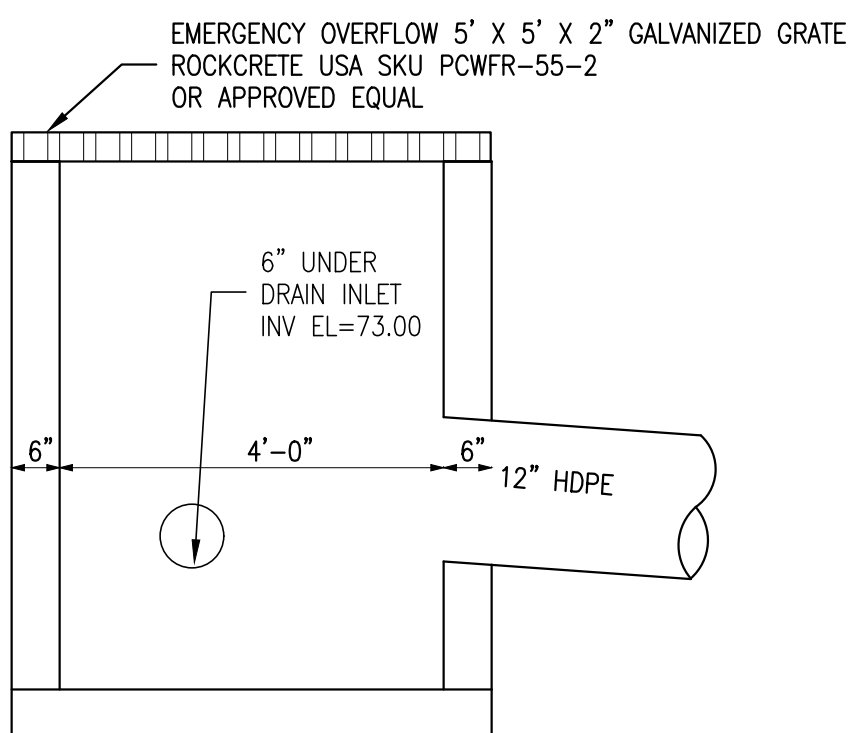
BERM DETAIL

(NOT TO SCALE)

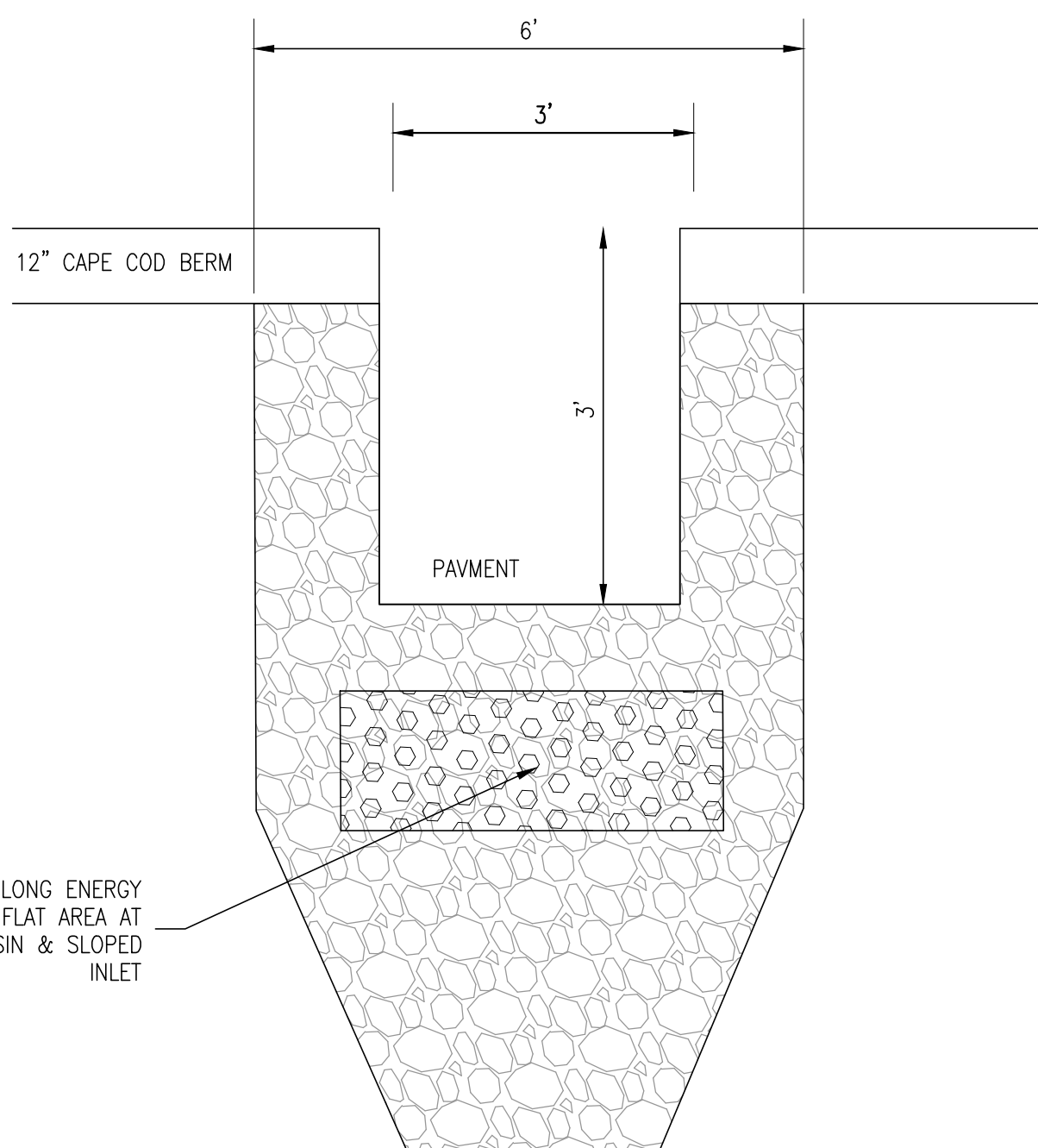


OUTLET CONTROL STRUCTURE-BASIN#1

(NOT TO SCALE)

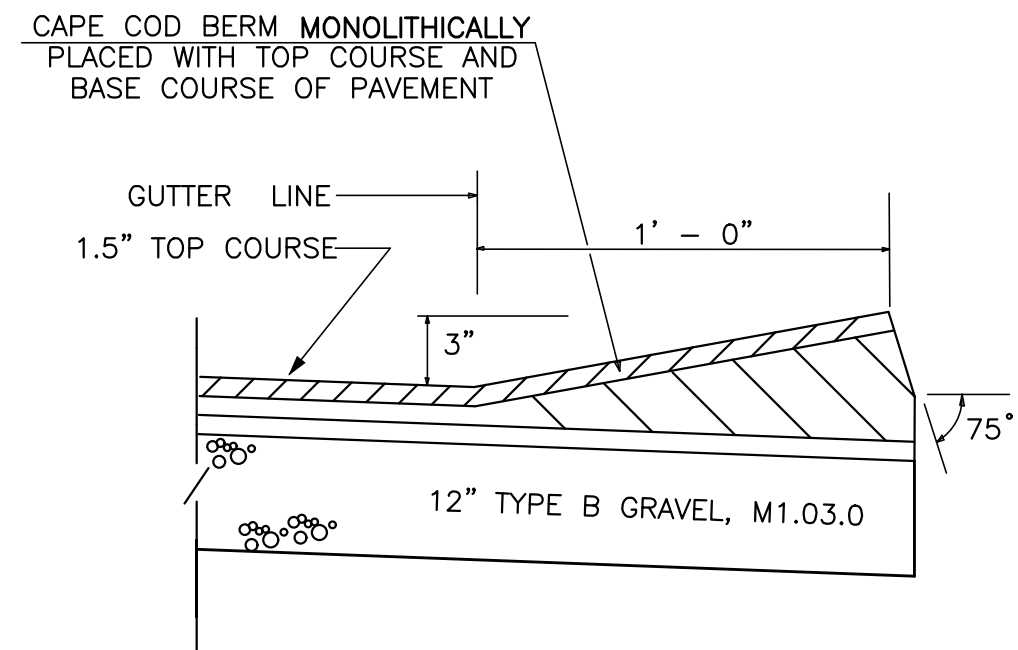


4 FT WIDE x 3' LONG ENERGY DISSIPATER FLAT AREA AT BOTTOM OF BASIN & SLOPED INLET



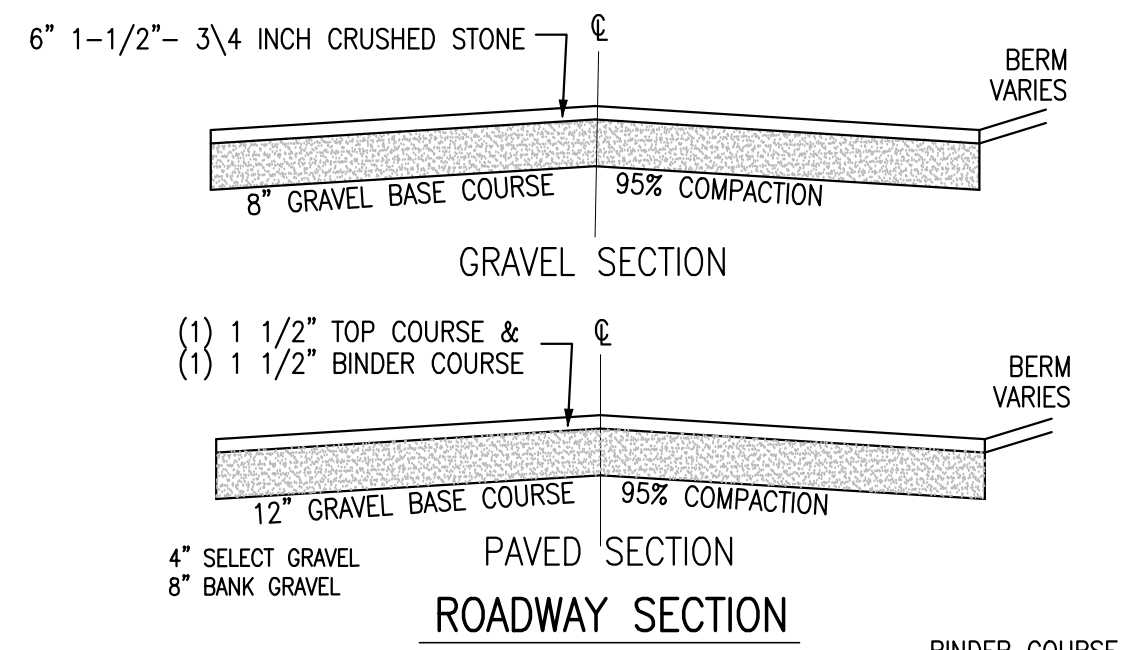
INLET SPILLWAY DETAIL

(NOT TO SCALE)



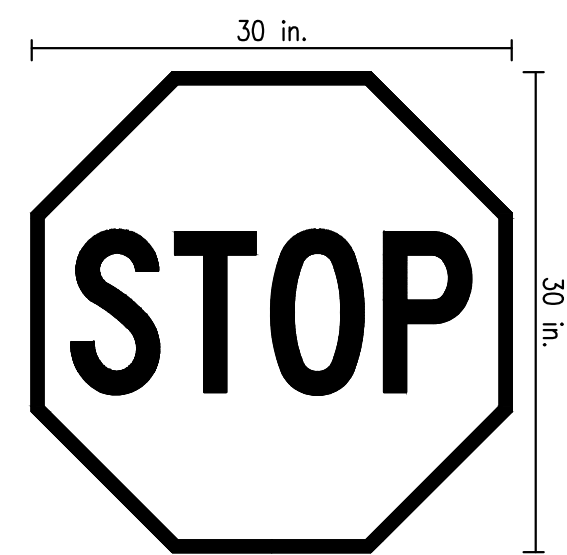
CAPE COD BERM DETAIL

(NOT TO SCALE)



SECTION A-A X-SECTION

(NOT TO SCALE)



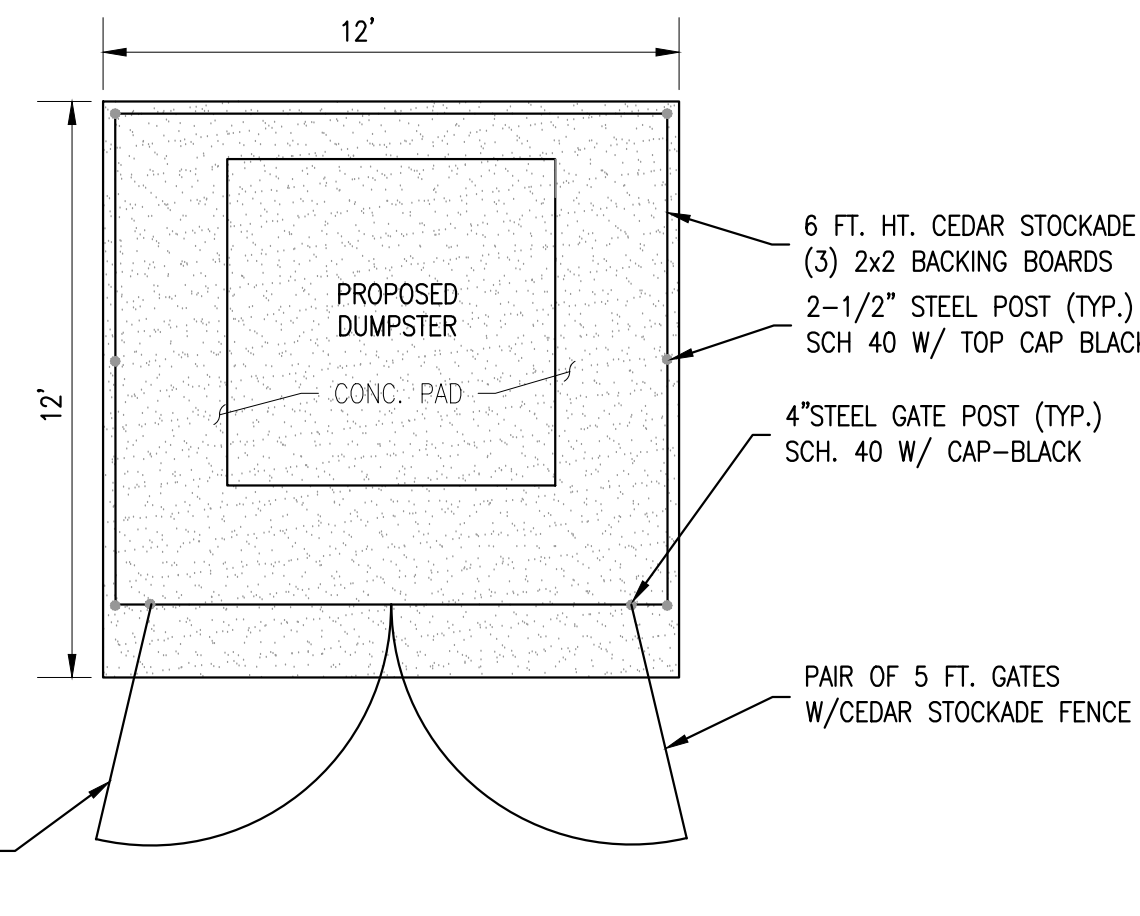
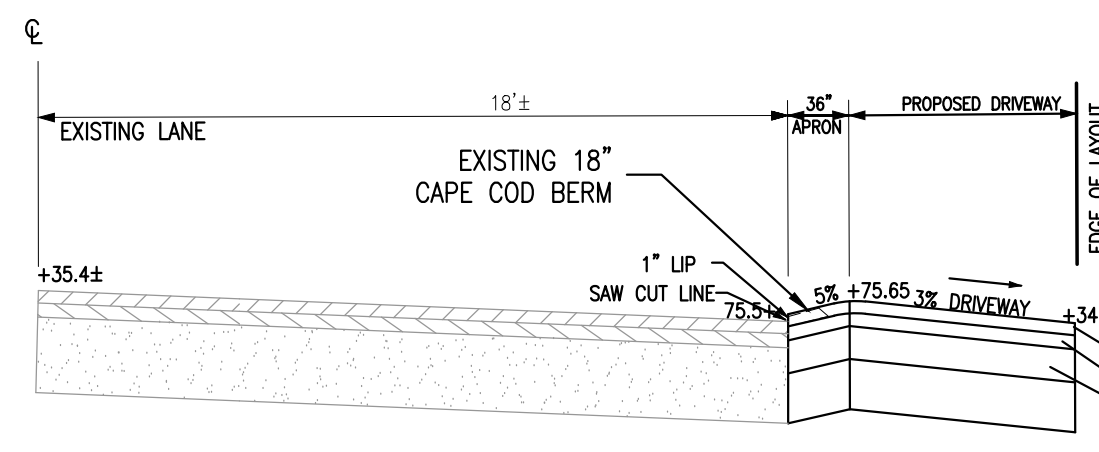
STOP SIGN SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES WITH THE EXCEPTION OF BEING DIAMOND GRADE. (R1-1)

12" WIDE x 12 FT LONG STOP LINE TO BE PLACED 5 FT IN ADVANCE OF NEAREST CROSSWALK OR WAY.

STOP SIGN DETAIL

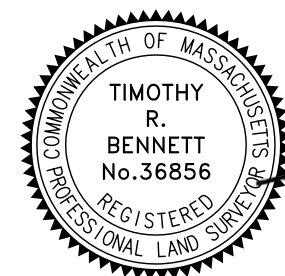
(NOT TO SCALE)

FOR REGISTRY USE ONLY



DUMPSTER DETAIL

NOT TO SCALE



I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN CONFORMANCE WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS OF THE COMMONWEALTH OF MASSACHUSETTS.

TIMOTHY BENNETT P.L.S.

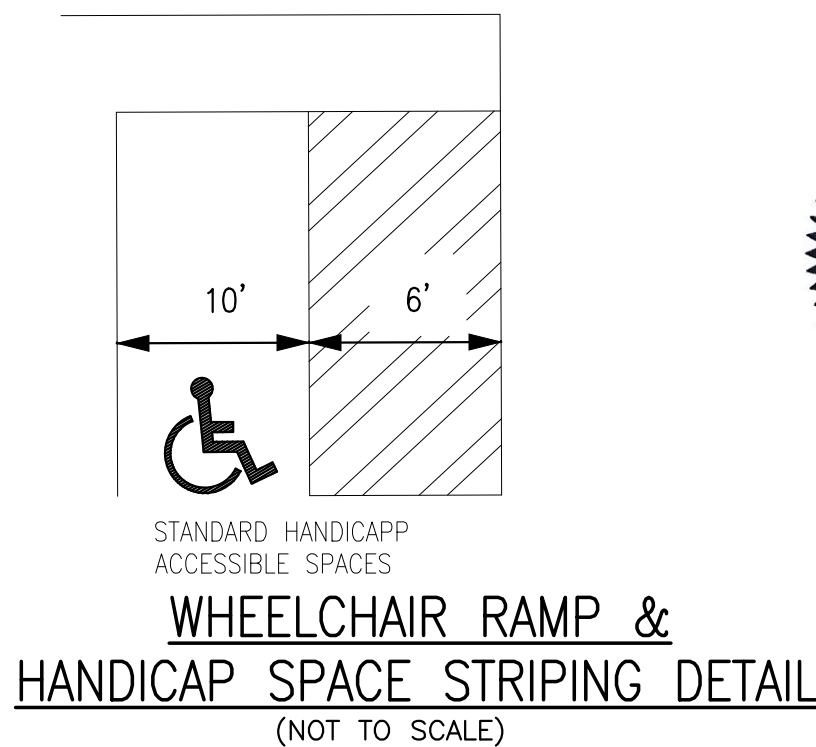


SITE PLAN
WILDLAND TIMBER
#715 WASHINGTON STREET
(ASSESSORS MAP F9 LOT 24
PEMBROKE, MASSACHUSETTS

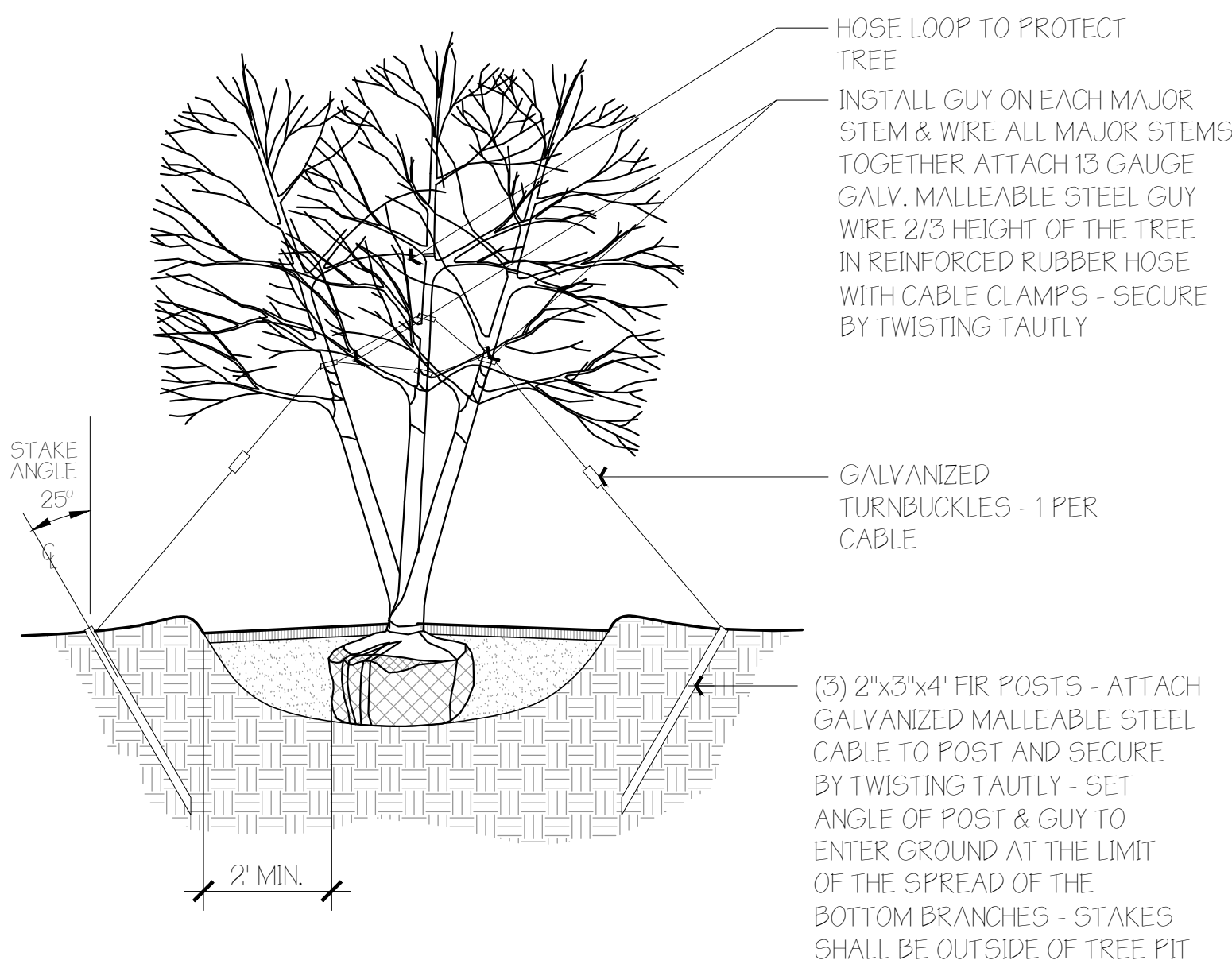
PREPARED FOR:
GEORGE THIBEAULT
599 SUMMER STREET
MARSHFIELD, MA 02050

JANUARY 11, 2021
SCALE: AS NOTED
JOB No. 20-365

GRADY CONSULTING, L.L.C.
Civil Engineers and Land Surveyors
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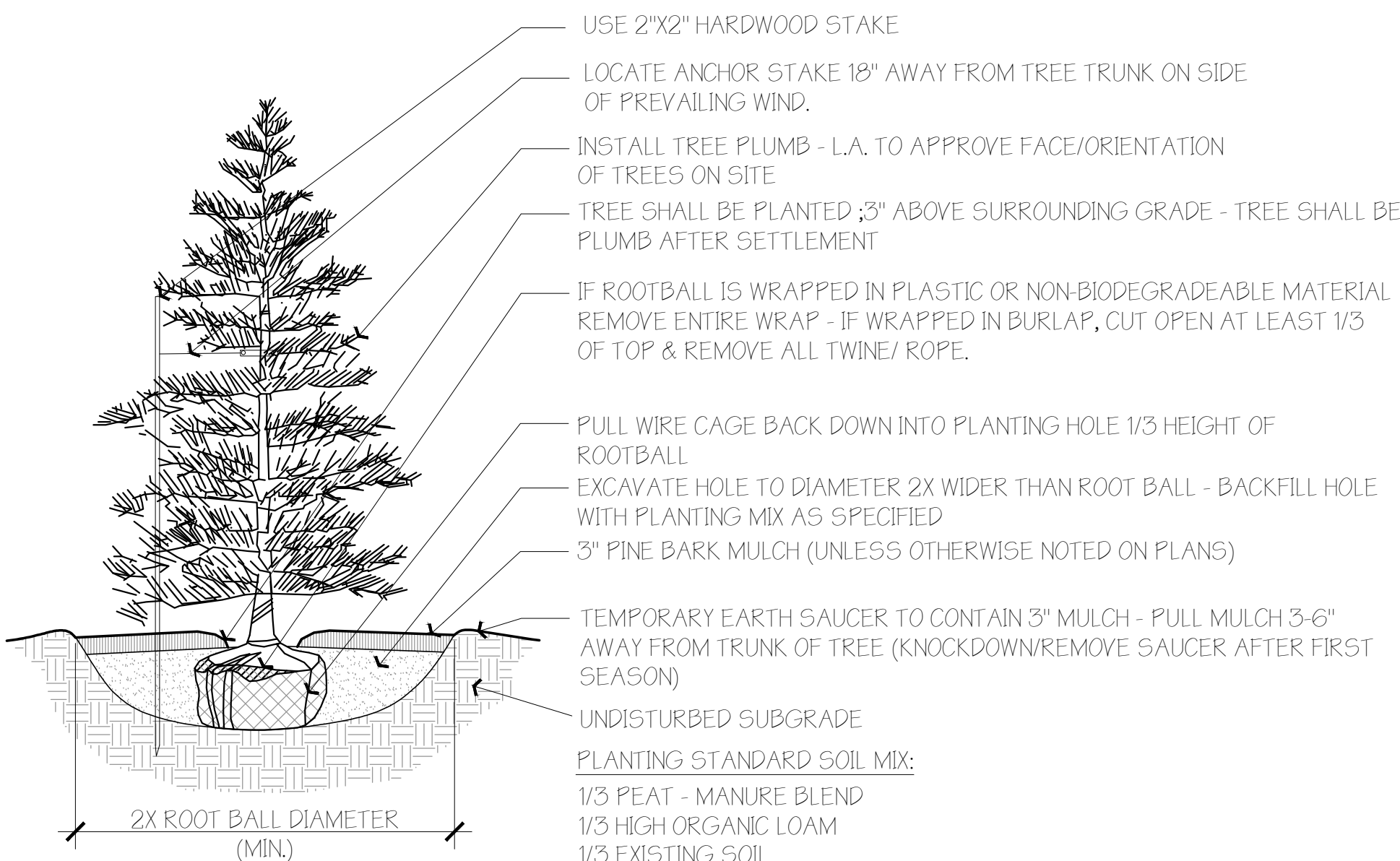
DETAILS



TREE GUYING DETAIL - MULTISTEM

1/2" = 1'-0"

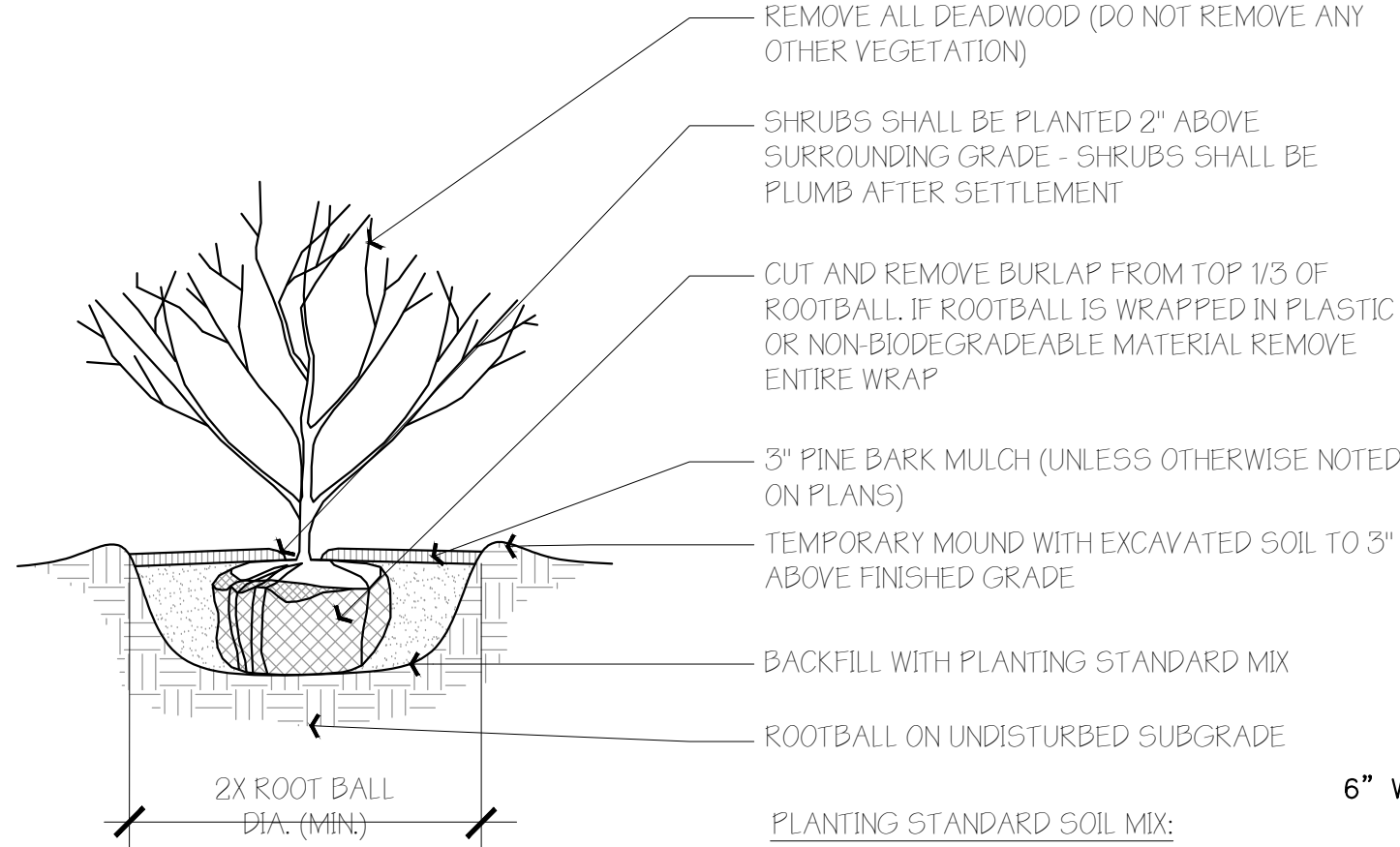
329343.02-01



EVERGREEN TREE DETAIL

1/2" = 1'-0"

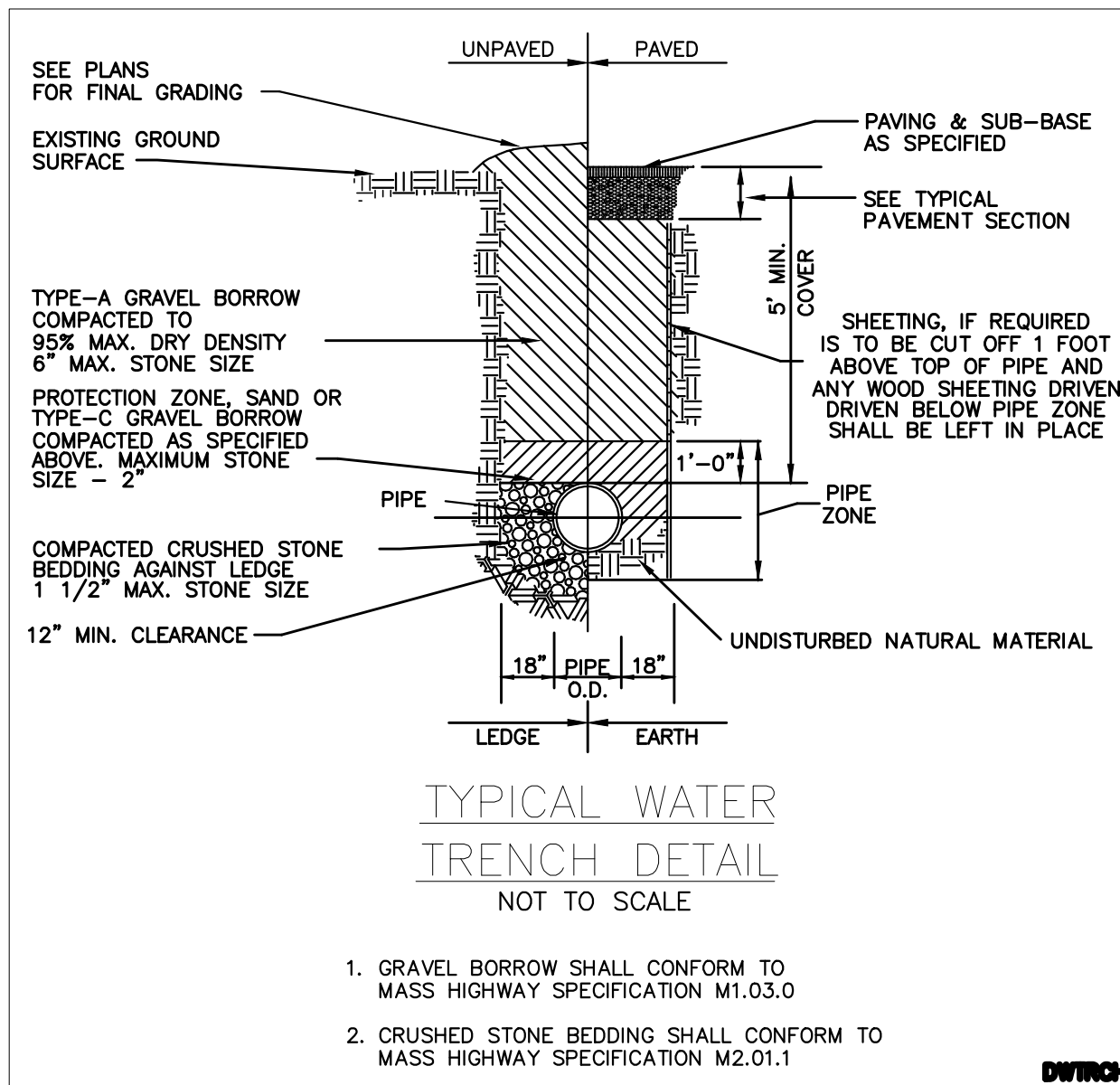
329343.04-01



SHRUB DETAIL

1" = 1'-0"

329333.00-02



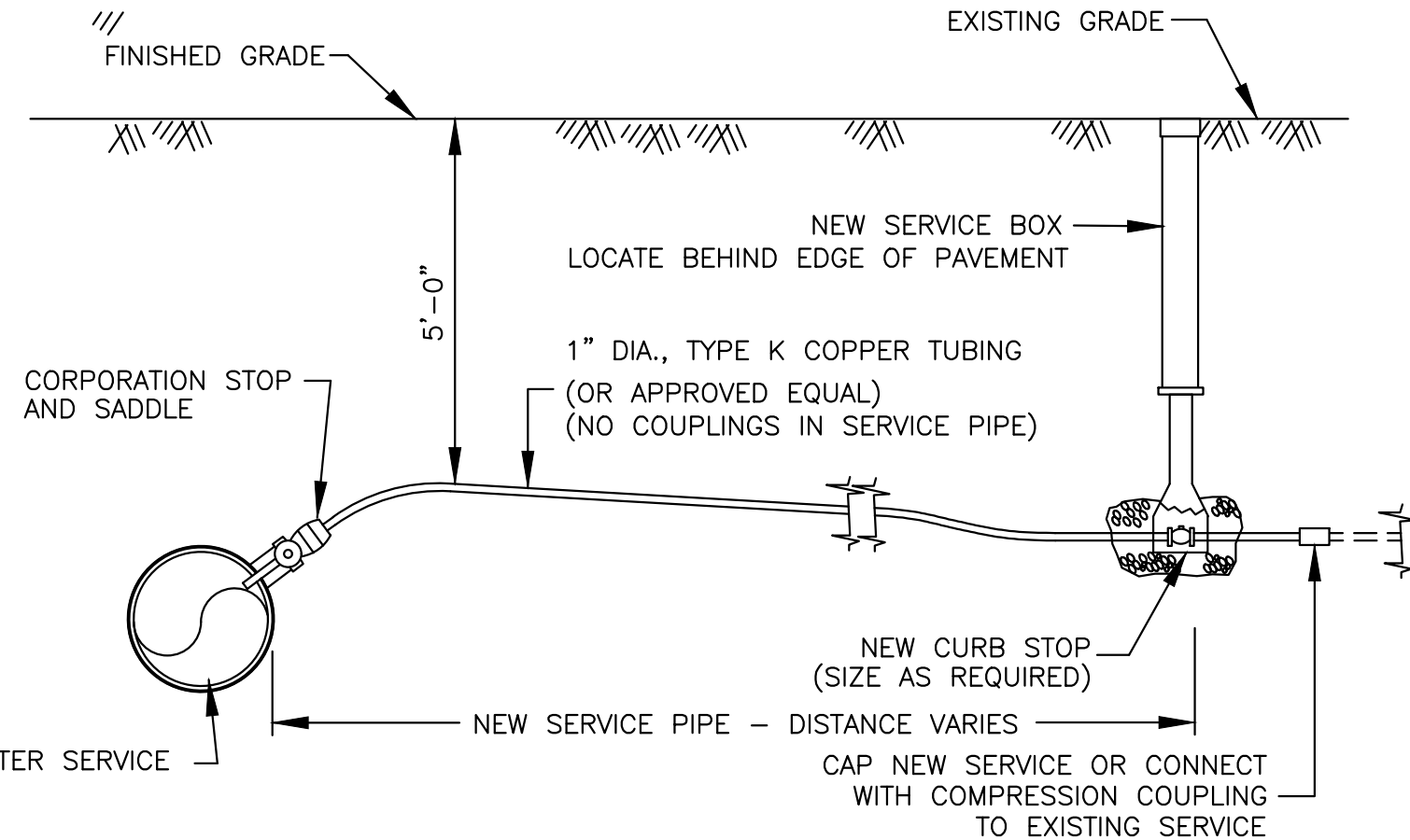
TYPICAL WATER TRENCH DETAIL
NOT TO SCALE

- GRAVEL BORROW SHALL CONFORM TO MASS HIGHWAY SPECIFICATION M1.03.0
- CRUSHED STONE BEDDING SHALL CONFORM TO MASS HIGHWAY SPECIFICATION M2.01.1

DTW/CH

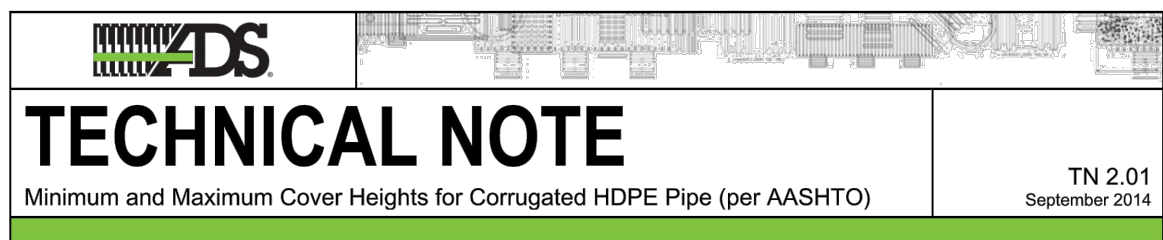
PLANTING NOTES

- NOTIFY DIG-SAFE AND LOCAL AUTHORITIES PRIOR TO ANY TYPE OF SITE PREPARATION OR CONSTRUCTION.
- ALL PLANTS TO HAVE THE SAME RELATIONSHIP TO FINISH GRADE AFTER SETTLEMENT AS TO THEIR ORIGINAL GRADE BEFORE DIGGING. LOCATE PLANT COLLAR TWO OR THREE INCHES HIGHER THAN PLANTING SOIL MIX TO INSURE CORRECT FINAL RELATIONSHIP.
- APPLY AN APPROVED ANTI-DESSICANT TO ALL PLANTS IN LEAF AT PLANTING TIME, AND TO ALL EVERGREENS BEFORE THEIR FIRST WINTER.
- FLOOD ALL PLANTS WITH CLEAN WATER TWICE IN THE FIRST 24 HOUR AFTER PLANTING. CONTRACTOR TO ARRANGE FOR ALL PLANTS TO BE PLANTED WITHIN THREE DAYS AFTER DELIVERY TO THE SITE UNLESS OTHERWISE APPROVED BY THE LANDSCAPE ARCHITECT.
- NEVER CUT A LEADER.
- TRIM ONLY BROKEN OR DEAD BRANCHES FROM EVERGREEN PLANTS.
- THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIAL AND MULCH IN SUFFICIENT QUANTITIES TO COMPLETE PLANTING AS SHOWN ON THE DRAWINGS. DRAWING QUANTITIES TAKE PRECEDENCE OVER PLANT LIST QUANTITIES.
- ALL PLANT MATERIAL SHALL CONFORM TO THE GUIDELINES BY "THE AMERICAN STANDARD FOR NURSERY STOCK," PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
- ALL TREES SHALL HAVE "BEST FACE" SIDE TAGGED AT NURSERY PRIOR TO DIGGING.
- ALL PLANTS SHALL BE BALLED AND BURLAPPED OR CONTAINER GROWN, UNLESS OTHERWISE APPROVED BY THE LANDSCAPE ARCHITECT.
- CONTRACTOR TO STAKE TREE LOCATIONS FOR APPROVAL BY LANDSCAPE ARCHITECT.
- LANDSCAPE ARCHITECT TO APPROVE IN PLACE ALL SHRUBS, PERENNIALS AND VINES PRIOR TO PLANTING.
- ALL TREES TO RECEIVE A MINIMUM OF THREE INCHES OF MULCH. ALL SHRUBS, VINES AND GROUND COVERS TO RECEIVE A MINIMUM OF TWO INCHES OF MULCH.
- WHERE SPECIFIED, CALIPER SIZE TO BE OVERKING FACTOR IN TREE SELECTION.
- STAKE OR GUY ALL TREES AND LARGE EVERGREEN MATERIAL.
- CONTRACTOR TO PROVIDE TWO YEAR GUARANTEE ON ALL MATERIAL. CONTRACTOR TO MAINTAIN ALL PLANTING AND LAWNS UNTIL FINAL PROJECT ACCEPTANCE. GUARANTEE PERIOD TO BEGIN AT FINAL ACCEPTANCE.
- ALL PLANT MATERIAL SHALL BE INSTALLED PRIOR TO FINAL TOP-DRESSING AND SODDING/SEEDING.
- COORDINATE LANDSCAPE INSTALLATION WITH INSTALLATION OF UNDERGROUND SPRINKLER SYSTEM & LANDSCAPE LIGHTING (IF APPLICABLE).
- NO PLANTING BEFORE THE ACCEPTANCE OF ROUGH GRADING.
- CONTRACTOR TO PROVIDE SOIL TESTS IN AREAS DESIGNATED BY LANDSCAPE ARCHITECT IN FIELD FOR EXISTING SOILS TO DETERMINE APPROPRIATE SOIL AMENDMENTS PRIOR TO THE DISTURBANCE OF SITE.
- ALL PLANTING BEDS TO BE TREATED WITH PREEN AND GREEN OR APPROVED EQUAL TO PROHIBIT WEED GERMINATION AND GROWTH PRIOR TO THE SPREADING OF MULCH.
- ALL PERENNIALS ARE TO BE PLANTED INTO DAMP SOIL.
- PLANT LIST: A COMPLETE LIST OF PLANTS INCLUDING A SCHEDULE OF QUANTITIES, SIZES, TYPES AND NAMES IS INCLUDED IN THIS SET OF DRAWINGS. IN THE EVENT OF DISCREPANCIES BETWEEN QUANTITIES OF PLANTS IN THE PLANT LIST AND THE QUANTITIES SHOWN ON THE DRAWINGS, THE PLAN SHALL GOVERN. WHEN MULTIPLE PLANT SPECIES ARE LISTED IN ONE PLANT CATEGORY, THE GOAL IS TO PROVIDE THE BEST PLANTS AVAILABLE AT THE TIME OF INSTALLATION. GRADY CONSULTING SHALL SELECT OR COORDINATE THE SELECTION OF THE APPROPRIATE PLANTS AT LOCAL NURSERIES. GRADY CONSULTING HAS THE RIGHT TO REJECT ANY PLANT THAT DOES NOT MEET THE SPECIFICATIONS LISTED IN THE PLANT TABLE.
- PLANT SUBSTITUTION ARE NOT ALLOWED UNLESS APPROVED BY GRADY CONSULTING.
- ALL DISTURBED AREAS TO BE LOAMED AND SEEDED AND BLENDED INTO EXISTING GRADE AND CONDITIONS (REFER TO ENGINEER'S SOIL STABILIZATION AND EROSION CONTROL PLAN FOR FURTHER INFORMATION).



- SERVICES SHALL CONSIST OF COPPER TUBING, A CORPORATION COCK AT THE MAIN, A CURB STOP AND CURB BOX AT THE PROPERTY LINE AND AN INSIDE VALVE AND METER ON THE OWNERS PREMISES.
- ALL SERVICE PIPE SHALL BE OF TYPE "K" COPPER TUBING, THE SIZE TO BE DETERMINED BY THE DEPARTMENT.
- SERVICE PIPE SHALL BE PLACED FIVE FEET BELOW FINAL GRADE.
- SERVICE BOXES SHALL BE CENTERED OVER THE CURB STOP AND SET FLUSH WITH THE GROUND SURFACE.
- CONNECTIONS TO WATER MAINS SHALL BE DONE BY THE DEPARTMENT. A SERVICE CHARGE WILL BE LEVED FOR THIS SERVICE.
- NO PIPE OR FITTING SHALL BE BACKFILLED BEFORE INSPECTION BY A PERSON DESIGNATED BY THE DEPARTMENT.
- ALL DAMAGE OF WHATEVER NATURE RESULTING FROM THE WORK, OR RESULTING TO THE WORK FROM WHATEVER CAUSE SHALL BE BORNE AND SUSTAINED BY THE CONTRACTOR.
- DAMAGES TO ANY EXISTING UNDERGROUND STRUCTURE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- NO WATER SERVICE SHALL BE INSTALLED NEARER THAN 10 FEET TO ANY SEPTIC TANK, CESSPOOL, LEACHING FIELD DRAINAGE PIT, SEWER LINE OR DRAIN LINE AS PER DEP 310 CMR, SECTION 15.211.
- THE CONTRACTOR WILL HAVE AN APPROVED STREET OPENING PERMIT FROM THE PEMBROKE DEPARTMENT OF PUBLIC WORKS (THE DEPARTMENT) PRIOR TO THE START OF ANY WORK PERFORMED IN A PUBLIC WAY. A SERVICE LINE INSTALLED BY A PRIVATE CONTRACTOR IN A PUBLIC WAY MUST BE GUARANTEED FOR ONE YEAR FROM THE DATE OF COMPLETION. THE CONTRACTOR SHALL REPAIR ANY SETTLEMENT OF THE TRENCH PAVEMENT BY A METHOD APPROVED BY THE DEPARTMENT AND AT HIS OWN EXPENSE FOR THE SAME ONE-YEAR PERIOD STARTING FROM THE DATE OF COMPLETION.

1"Ø DOMESTIC WATER SERVICE DETAIL



Introduction

The information in this document is designed to provide answers to general cover height questions; the data provided is not intended to be used for project design. The design procedure described in the *Structures* section (Section 2) of the *Drainage Handbook* provides detailed information for analyzing most common installation conditions. This procedure should be utilized for project specific designs.

The two common cover height concerns are minimum cover in areas exposed to vehicular traffic and maximum cover heights. Either may be considered "worst case" scenario from a loading perspective, depending on the project conditions.

Minimum Cover in Traffic Applications

Pipe diameters from 4- through 48-inch (100-1200 mm) installed in traffic areas (AASHTO H-25 or HS-25 loads) must have at least one foot (0.3m) of cover over the pipe crown, while 54- and 60-inch (1350 and 1500 mm) pipes must have at least 24 inches (0.6m) of cover. The backfill envelope must be constructed in accordance with the *Installation* section (Section 5) of the *Drainage Handbook* and the requirements of ASTM D2321. The backfill envelope must be of the type and compaction listed in Appendix A-5, Table A-5-2 of the *Drainage Handbook*. In Table 1 below, this condition is represented by a Class III material compacted to 90% standard Proctor density, although other material can provide similar strength at slightly lower levels of compaction. Structural backfill material should extend six inches (0.15m) over the crown of the pipe; the remaining cover should be appropriate for the installation and as specified by the design engineer. If settlement or rutting is a concern, it may be appropriate to extend the structural backfill to grade. Where pavement is involved, sub-base material can be considered in the minimum burial depth. While rigid pavements can be included in the minimum cover, the thickness of flexible pavements should not be included in the minimum cover.

Additional information that may affect the cover requirements is included in the *Installation* section (Section 5) of the *Drainage Handbook*. Some examples of what may need to be considered are temporary heavy equipment, construction loading, paving equipment and similar loads that are less than the design load, the potential of pipe flotation, and the type of surface treatment which will be installed over the pipe zone.

Table 1 Minimum Cover Requirements for ADS N-12®, N-12 ST, and N-12 WT (per AASHTO) with AASHTO H-25 or HS-25 Load			
Inside Diameter, ID, in.(mm)	Minimum Cover, ft. (m)	Inside Diameter, ID, in.(mm)	Minimum Cover, ft. (m)
4 (100)	1 (0.3)	24 (600)	1 (0.3)
6 (150)	1 (0.3)	30 (750)	1 (0.3)
8 (200)	1 (0.3)	36 (900)	1 (0.3)
10 (250)	1 (0.3)	42 (1050)	1 (0.3)
12 (300)	1 (0.3)	48 (1200)	1 (0.3)
16 (400)	1 (0.3)	54 (1350)	2 (0.6)
18 (450)	1 (0.3)	60 (1500)	2 (0.6)

Note: Minimum covers presented here were calculated assuming Class III backfill material compacted to 90% standard Proctor density around the pipe and a minimum of 6-inches (0.15m) structural backfill over the pipe crown, as recommended in Section 5 of the Drainage Handbook, with an additional layer of compacted traffic lane sub-base for a total cover as required. In shallow traffic installations, especially where pavement is involved, a good quality compacted material to grade is required to prevent surface settlement and rutting.

4440 TRUEMAN BLVD., HILLIARD, OH 43026 (603) 921-6710 www.ads-pipe.com	1
ATN2.01	© ADS 2014

ALL DRAIN PIPE TO BE ADS N-12
EQUIVALENT OR APPROVED EQUAL

DRAIN PIPE DETAIL

(NOT TO SCALE)

FOR REGISTRY USE ONLY

WATER SUPPLY NOTES

- THERE SHALL BE NO PHYSICAL CONNECTION BETWEEN A PUBLIC OR PRIVATE POTABLE WATER SUPPLY SYSTEM AND A SEWER, OR APPURTENANCE THERETO WHICH WOULD PERMIT THE PASSAGE OF ANY WASTEWATER OR POLLUTED WATER INTO THE POTABLE SUPPLY.
- THE SEWER MAY BE LAID CLOSER THAN 10 FEET TO A WATER MAIN PROVIDED THAT IT IS
 - LAID IN A SEPARATE TRENCH, AND
 - THE ELEVATION OF THE TOP(CROWN) OF THE SEWER IS AT LEAST 18 INCHES BELOW THE BOTTOM(INVERT) OF THE WATER MAIN.
- WHENEVER SEWERS MUST CROSS UNDER WATER MAINS, THE SEWER SHALL BE LAID AT SUCH AN ELEVATION THAT THE TOP OF THE SEWER IS AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN. WHEN THE ELEVATION OF THE SEWER CANNOT BE VARIED TO MEET THIS REQUIREMENT, THE WATER MAIN SHALL BE RELOCATED TO PROVIDE THIS SEPARATION OR RECONSTRUCTED WITH MECHANICAL JOINT PIPE FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE SEWER. ONE FULL LENGTH OF WATER MAIN SHOULD BE CENTERED OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE.
- WHEN IT IS IMPOSSIBLE TO OBTAIN PROPER HORIZONTAL AND VERTICAL SEPARATION AS STIPULATED ABOVE, BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF MECHANICAL JOINT CAST IRON PIPE AND SHALL BE PRESSURE TESTED TO ASSURE WATERTIGHTNESS.

SPECIFICATIONS

- ALL WATER MAIN PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH A WW A C 151. PIPE SHALL BE DUCTILE IRON, THICKNESS CLASS 52. THE INSIDE OF THE PIPE SHALL BE GIVEN A CEMENT LINING AND ASPHALTIC SEAL COAT IN ACCORDANCE WITH A WW A C 104.
- ALL INSTALLED WATER PIPE SHALL HAVE FIVE FEET OF COVER MEASURED AT FINAL GRADE.
- GENERALLY, NO PIPE SMALLER THAN EIGHT INCHES IN INTERNAL DIAMETER SHALL BE UTILIZED FOR WATER MAINS CONNECTED TO A HYDRANT.
- ALL FITTINGS SHALL BE MECHANICAL JOINT, CONFORM TO THE REQUIREMENTS OF A WW A CL 10 OR C153, AND BE CAPABLE OF WITHSTANDING 250 PSI.
- TAPPING SLEEVES SHALL HAVE STAINLESS STEEL WRAP TEES.
- ALL VALVES AND FITTINGS SHALL BE BRACED AGAINST MOVEMENT UTILIZING APPROVED JOINT RESTRAINT SYSTEMS (I.E. MEGALUG® FITTINGS SERIES 1100 OR APPROVED EQUAL).
- WATER VALVES SHALL BE RESILIENT WEDGE TYPE GATE VALVES MANUFACTURED TO AWWA C509 STANDARDS. VALVES SHALL OPEN RIGHT (CLOCKWISE). ALL VALVES THAT ARE 16 INCHES IN SIZE OR GREATER, SHALL BE BUTTERFLY VALVES. BUTTERFLY VALVES SHALL BE IN ACCORDANCE WITH "RUBBER SEATED BUTTERFLY VALVES", AWWA DESIGNATION C504. ALL GATE VALVES AND BUTTERFLY VALVES SHALL BE MANUFACTURED BY MUELLER CO.
- GATE BOXES SHALL BE SET PLUMB AND FLUSH WITH THE GROUND SURFACE AND CONFORM TO A WWA C500. GATE VALVE BOXES SHALL BE EQUIPPED WITH PAVEMENT FLANGE.
- NO PIPE OR FITTING SHALL BE BACKFILLED BEFORE INSPECTION BY A PERSON DESIGNATED BY THE WATER DEPARTMENT.
- HYDRANTS SHALL CONFORM TO THE REQUIREMENTS OF AWWA C502. HYDRANTS SHALL BE SET PLUMB, WITH THE STEAMER NOZZLE FACING THE ROAD. THE AREA AROUND THE DRIPS SHALL BE FILLED WITH CLEAN STONE. APPROVED JOINT RESTRAINT FITTINGS SHALL BE UTILIZED FOR HYDRANT INSTALLATION. HYDRANTS SHALL BE PLACED SO THAT THEY ARE WITHIN ONE FOOT OF THE PROPERTY LINE AND SHALL BE THE 5 1/4 CENTURION MODEL AS MANUFACTURED BY MUELLER COMPANY.
- THE COMPLETED WATER MAIN SHALL BE CHLORINATED BY USING ONE PART SOLUTION OF AVAILABLE CHLORINE IN SUCH VOLUME THAT THE RATE OF DOSAGE OF THE WATER CONTENT OF THE MAIN SHALL BE AT LEAST FIFTY PARTS PER MILLION AVAILABLE CHLORINE. THE CONTACT PERIOD SHALL BE AT LEAST TWENTY-FOUR HOURS, LONGER IF THE TEST FOR RESIDUAL CHLORINE INDICATES THAT IT IS NECESSARY FOR PROPER DISINFECTION. WATER MAIN DISINFECTION SHALL BE IN ACCORDANCE WITH AN APPROVED A WW A METHOD FOR DISINFECTING WATER MAINS. THE DEPARTMENT WILL TAKE BACTERIA SAMPLES AND PERFORM ANALYSIS. THE CUSTOMER SHALL BE RESPONSIBLE FOR FLUSHING AND PRESSURE TESTING NEW WATER MAIN. NO WATER MAIN SHALL BE PLACED INTO SERVICE UNTIL THE DEPARTMENT HAS GIVEN APPROVAL.
- ALL DAMAGES OF WHATEVER NATURE RESULTING FROM THE WORK OR RESULTING TO THE WORK, FROM WHATEVER CAUSE SHALL BE BORNE AND SUSTAINED BY THE CONTRACTOR.
- DAMAGE TO ANY EXISTING UNDERGROUND STRUCTURE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- PRESSURE TESTS OF THE NEW WATER MAIN SHALL BE CARRIED OUT AT 150 POUNDS GAUGE FOR ONE HOUR. LEAKAGE TESTS SHALL BE PERFORMED IF THE PRESSURE DROPS AFTER THE ONE HOUR TIME PERIOD. THE RATE OF LEAKAGE SHALL NOT EXCEED ONE GALLON PER DAY PER LINEAR FOOT OF JOINT.
- THE CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER THE COMPLETION OF STRENGTH AND LEAKAGE TESTS.
- IN THE CASE WHERE THE TOWN OF PEMBROKE SUPPLIES WATER TO INDIVIDUAL HOUSES IN A DEVELOPMENT AND AFTER ALL THE FOREGOING CONDITIONS HAVE BEEN MET, AND BEFORE THE TOWN ACCEPTS THE ROAD OR ROADS AND/OR UTILITIES, THE OWNER OF THE DEVELOPMENT SHALL PAY, AT COST, FOR- ANY REPAIRS TO THE MAINS AND APPURTENANCES WHICH MAY BECOME NECESSARY.
- THE WATER MAIN SHOULD HAVE A MINIMUM OF 18" OF CLEARANCE BETWEEN ANY UTILITIES WHETHER RUNNING PARALLEL OR CROSSING A UTILITY.
- THE WATER MAIN, FITTINGS AND HYDRANTS LATERALS SHALL BE POLYETHYLENE ENCASED WITH V-BIO IN ANY INSTANCE THE WATER SYSTEM APPURTENANCES MAY BE INSTALLED WITHIN THE SEASONAL HIGH GROUND WATER.

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN CONFORMANCE WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS OF THE COMMONWEALTH OF MASSACHUSETTS.

TIMOTHY BENNETT R. BENNETT No.36856 REGISTERED PROFESSIONAL LAND SURVEYOR



SITE PLAN WILDLAND TIMBER

#715 WASHINGTON STREET
(ASSESSORS MAP F9 LOT 24

PEMBROKE, MASSACHUSETTS

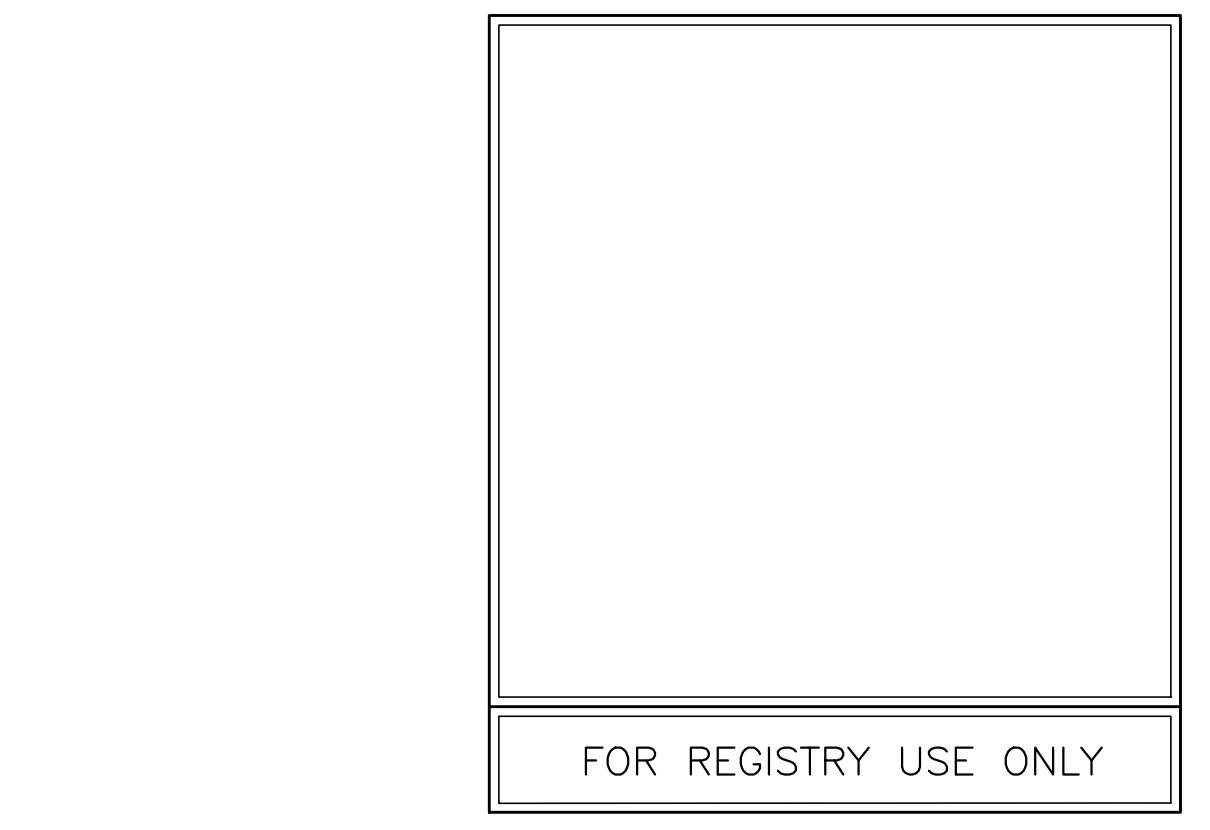
PREPARED FOR:
GEORGE THIBEAULT
599 SUMMER STREET
MARSHFIELD, MA 02050

JANUARY 11, 2021
SCALE: AS NOTED
JOB No. 20-365



Grady Consulting, L.L.C.

Civil Engineers and Land Surveyors
71 Evergreen Street, Suite 1, Kingston, MA 02364
Phone (781) 585-2300 Fax (781) 585-2378



SEDIMENT TRAP #4 12349 SF CONTRIBUTING AREA				
2 YEAR RUNOFF VOLUME = 1380 (CU. FT).				
CONTOUR ELEVATION (sq. FT)	CONTOUR AREA	DEPTH (FT)	INCREMENTAL VOLUME AVG. END (CU. FT)	CUMULATIVE VOLUME AVG. END (CU. FT)
76.000	541.31	N/A	N/A	0.00
78.000	734.85	2.000	1276.16	1276.16

2 TO 4 FT MIN

3.0" - 6" MIN

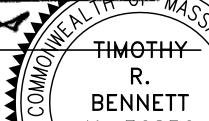
SLOPE TO SEDIMENT TRAP
LOAM & SEED WITH EROSION
CONTROL RESTORATION MIX

CONSTRUCTION PHASE SWALE DETAIL

NOT TO SCALE

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN CONFORMANCE WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS OF THE COMMONWEALTH OF MASSACHUSETTS.

Timothy R. Bennett
TIMOTHY BENNETT P.L.S.



PREPARED FOR:
GEORGE THIBEAULT
599 SUMMER STREET
MARSHFIELD, MA 02050

JANUARY 11, 2021
SCALE: 1"=20'
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