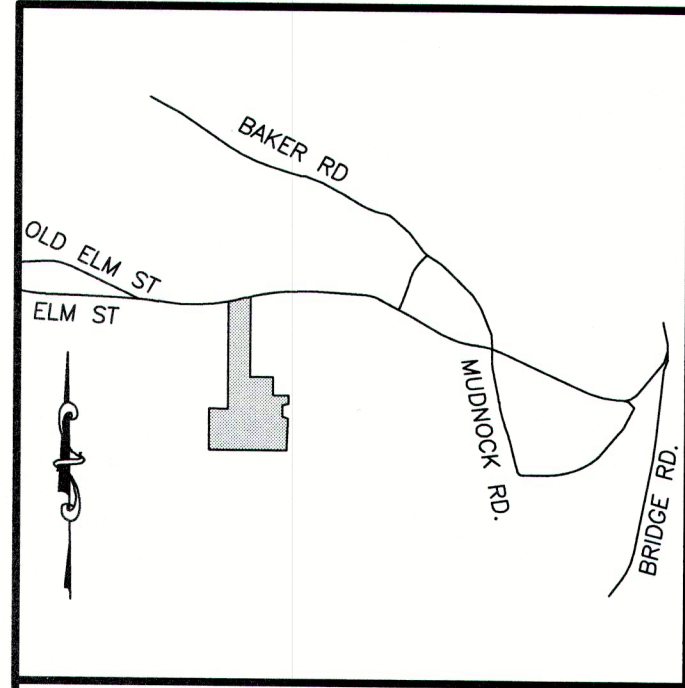




LOCUS MAP
N.T.S.

COMMERCIAL
DEVELOPMENT
AT
163 ELM STREET
IN
SALISBURY, MA

JUNE 2022

SALISBURY PLANNING BOARD APPROVAL

DATE

9
31

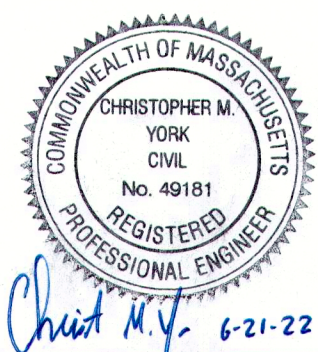
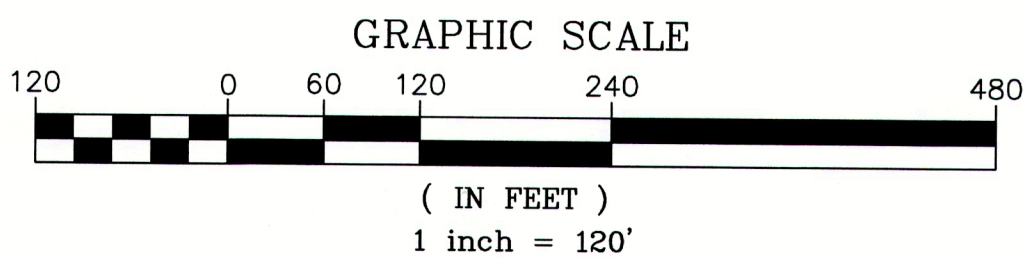
RECORD OWNER
F & D REALTY LLC
1 MELVIN STREET
WAKEFIELD, MA 01880
BK. 39992 PG. 477

PLAN INDEX	
SHEET NO.	TITLE
C-1	COVER SHEET
C-2	EXISTING CONDITIONS PLAN
C-3	LEGEND/NOTES
C-4-7	SITE PLANS
C-8-11	GRADING PLANS
C-12	UTILITY PLAN & PROFILE
C-13-17	DETAILS
E-1	LIGHTING PLAN
L-1	LANDSCAPE PLAN



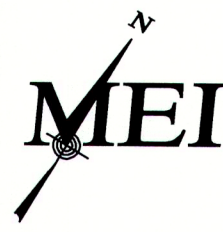
ZONING TABLE			
163 ELM STREET - ASSESSORS MAP 9 LOT 31 ZONING DISTRICT COMMERCIAL (C)			
	REQUIRED	EXISTING	PROPOSED
LOT AREA:	1/2 AC.	25.04 AC.	25.04 AC.
LOT FRONTAGE:	100 FT.	153.00 FT	153.00 FT
FRONT SETBACK:	50 FT	**	127.9 FT
SIDE SETBACK:	20 FT./30 FT.	**	68.7 FT
REAR SETBACK:	20 FT.	**	> 2000 FT
LOT COVERAGE:	25% MAX	**	1.6%
PARKING SPACES:	5	**	6
BLDG HEIGHT:	35 FT.	**	< 35 FT.

ZONING TABLE			
163 ELM STREET - ASSESSORS MAP 9 LOT 31 ZONING DISTRICT OFFICE PARK (C-3)			
	REQUIRED	EXISTING	PROPOSED
LOT AREA:	2 1/2 AC.	25.04 AC.	25.04 AC.
LOT FRONTAGE:	150 FT.	153.00 FT	153.00 FT
FRONT SETBACK:	30 FT	**	521.2 FT
SIDE SETBACK:	25 FT.	**	69.7 FT
REAR SETBACK:	40 FT.	**	> 1600 FT
LOT COVERAGE:	40% MAX	**	1.6%
PARKING SPACES:	**	**	8
BLDG HEIGHT:	35 FT.	**	< 35 FT.



PREPARED FOR
F & D REALTY LLC
1 MELVIN STREET, SUITE D
WAKEFIELD, MA 01880

NO.	DATE	DESCRIPTION	BY
1	6/21/22	ADDRESS TOWN COMMENTS	C.M.Y.



MILLENNIUM ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

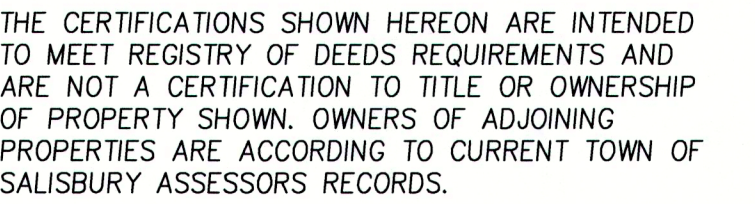
SCALE: 1"=120'	DESG. BY: C.M.Y.	PROJECT: M183284
DATE: JUN. 1, 2022	CHKD. BY: E.W.B.	

PLAN OF LAND
IN
SALISBURY, MA
SHOWING
PROPOSED SITE IMPROVEMENTS
AT
163 ELM STREET

**COVER
SHEET**

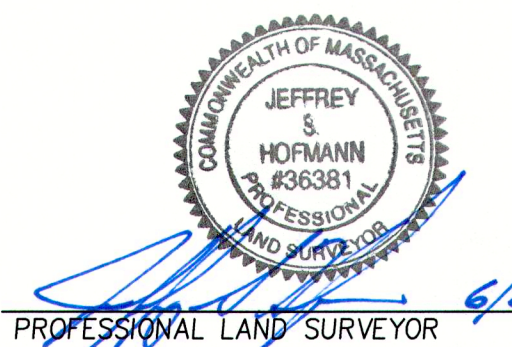
SHEET: C-1

N/F TOWN OF SALISBURY
BK. 23936 PG. 503



I CERTIFY:
THAT THE PROPERTY LINES SHOWN ARE THE LINES OF
EXISTING OWNERSHIP AND THE LINES OF STREETS AND
WAYS SHOWN ARE THE LINES OF STREETS AND WAYS
ALREADY EXISTING AND THAT NO NEW LINES FOR THE
DIVISION OF EXISTING OWNERSHIP OR FOR NEW
STREETS OR WAYS ARE SHOWN.

I CERTIFY:
THAT THIS ACTUAL SURVEY WAS MADE ON THE
GROUND FROM DECEMBER 2021 TO APRIL 2022.



5/21/22
DATE



F & D REALTY LLC
1 MELVIN STREET, SUITE C
WAKEFIELD, MA 01880
(MAP 9 - LOT 31)

1	6/21/22	ADDRESS TOWN COMMENTS	C.M.Y.
NO.	DATE	DESCRIPTION	BY



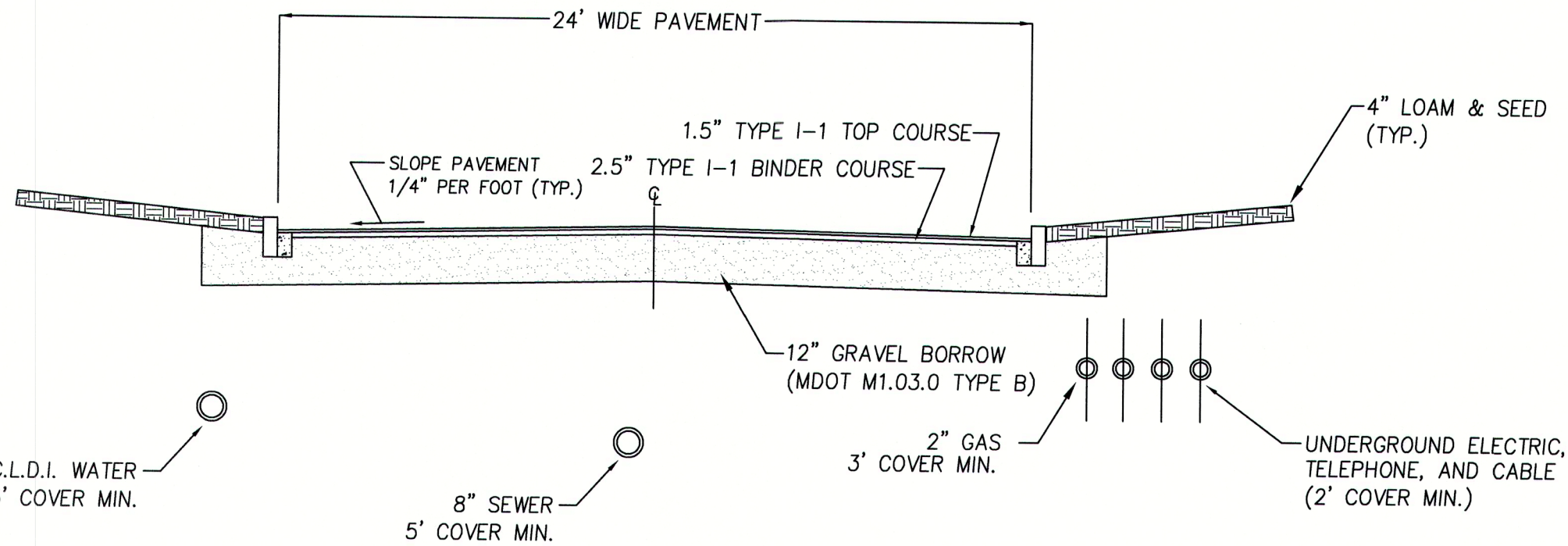
MILLENNIUM ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

PLAN OF LAND IN SALISBURY, MA

PROPOSED SITE IMPROVEMENTS
AT
163 ELM STREET

EXISTING CONDITIONS

HEET: C-2



ROADWAY CROSS-SECTION
STA. 0+00 TO STA. 7+96±

N.T.S.

LEGEND

EXISTING PROPOSED

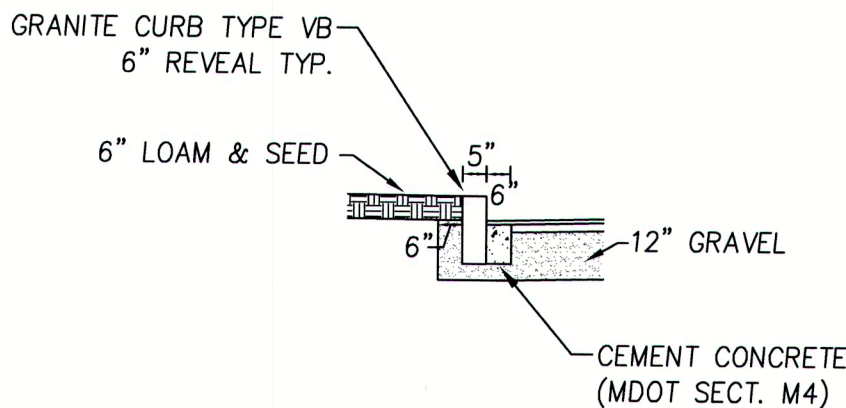
- EXISTING: Catch basin (or gutter inlet, or leaching basin), Catch basin (or gutter inlet) with curb inlet, Edge of road, Contour, Sewer manhole, Drainage manhole, Gas gate, Water gate, Septic tank, Hydrant, Fire alarm box, Post mounted pedestrian light, Utility pole, Drain pipe, Sewer main, Sewer force main, Underground electric, Water main, Mail box, Highway guard (type noted), Fence (size and type noted), Easement line, Property line, 100 ft buffer zone.
- PROPOSED: CB, CB/CI (OR G/CI), 108, Sewer manhole, Drainage manhole, Gas gate, Water gate, Septic tank, Hydrant, Fire alarm box, Post mounted pedestrian light, Utility pole, Drain pipe, Sewer main, Sewer force main, Underground electric, Water main, Mail box, Highway guard (type noted), Fence (size and type noted), Easement line, Property line, 100 ft buffer zone.

- CATCH BASIN (OR GUTTER INLET, OR LEACHING BASIN)
- CATCH BASIN (OR GUTTER INLET) WITH CURB INLET
- EDGE OF ROAD
- CONTOUR
- SEWER MANHOLE
- DRAINAGE MANHOLE
- GAS GATE
- WATER GATE
- SEPTIC TANK
- HYDRANT
- FIRE ALARM BOX
- POST MOUNTED PEDESTRIAN LIGHT
- UTILITY POLE
- DRAIN PIPE
- SEWER MAIN
- SEWER FORCE MAIN
- UNDERGROUND ELECTRIC
- WATER MAIN
- MAIL BOX
- HIGHWAY GUARD (TYPE NOTED)
- FENCE (SIZE AND TYPE NOTED)
- EASEMENT LINE
- PROPERTY LINE
- 100 FT BUFFER ZONE

- BASE OR SURVEY LINE
- CONSTRUCTION BASELINE
- WHEELCHAIR RAMP (WCR)
- CONCRETE SIDEWALK
- HAND CORE
- SILT SOCK
- WETLAND

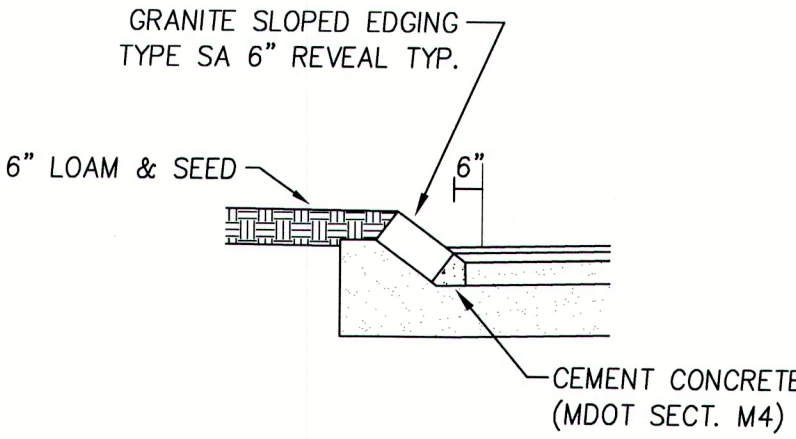
SURVEY

- WETLAND DELINEATION FLAG
- CONCRETE BOUND
- STONE BOUND
- DRILL HOLE
- MASONRY NAIL
- IRON PIPE
- IRON ROD
- FOUND
- NOT FOUND
- ASSESSORS MAP AND PARCEL



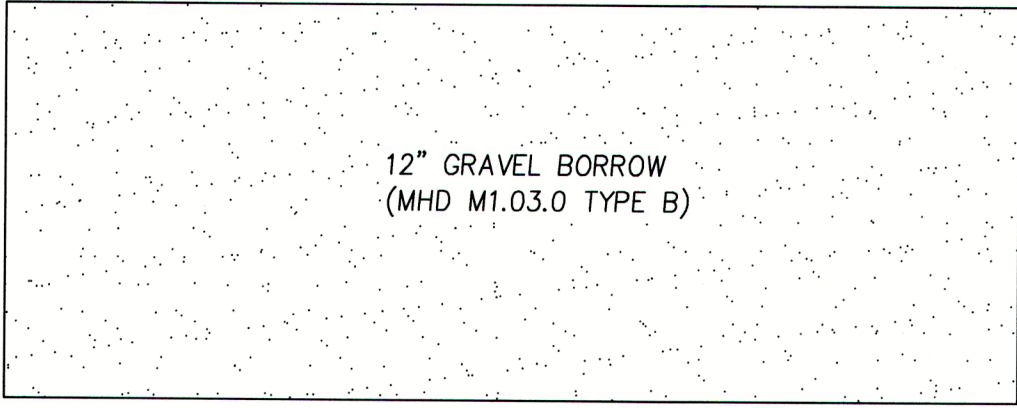
TYPICAL GRANITE CURBING
INSTALLATION DETAIL

N.T.S.



TYPICAL SLOPED
EDGING DETAIL

N.T.S.



GRAVEL
DETAIL

N.T.S.

GENERAL NOTES

- THE CONTRACTOR SHALL REPORT TO THE OWNER AND ENGINEER ANY SIGNIFICANT VARIATIONS IN EXISTING SITE CONDITIONS. ANY PROPOSED REVISIONS TO THE WORK SHALL NOT BE UNDERTAKEN UNTIL REVIEWED AND APPROVED BY THE OWNER AND REGULATING CITY AND/OR STATE AGENCIES.
- THE CONTRACTOR SHALL INSTALL ALL SYSTEM COMPONENTS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND ALL APPLICABLE ELECTRICAL, PLUMBING, AND SANITARY CODES.
- ALL WORK SHALL CONFORM TO; THE SALISBURY PLANNING BOARD RULES AND REGULATIONS GOVERNING THE SUBDIVISION OF LAND, THE WETLANDS PROTECTION ACT (310 CMR 10.00), THE ORDER OF CONDITIONS ISSUED BY THE SALISBURY CONSERVATION COMMISSION, TOWN OF SALISBURY ZONING CODE, CHAPTER 300. ZONING; ARTICLE III. USE REGULATIONS; ARTICLE IV. DIMENSIONAL REGULATIONS; TABLE C-4 OFF STREET PARKING STANDARDS; ARTICLE XVIII. SITE PLAN REVIEW; CHAPTER 465. PLANNING BOARD, §465 10-13; AND PLANNING BOARD RULES AND REGULATIONS, III. SITE PLAN REVIEW.
- THE LOCATION OF ALL UTILITIES, AS SHOWN ON THESE PLANS, ARE BASED UPON PLANS AND RECORD INFORMATION PROVIDED BY MUNICIPAL AND PRIVATE UTILITY COMPANIES AND ARE CONSIDERED APPROXIMATE BOTH AS TO SIZE AND LOCATION. NO WARRANTY IS MADE AS TO THE ACCURACY OF THESE LOCATIONS OR THAT ALL UTILITIES ARE SHOWN. THE CONTRACTOR SHALL NOT RELY ON THESE PLANS FOR SUCH INFORMATION AND WILL MAKE EXAMINATIONS IN THE FIELD BY VARIOUS AVAILABLE RECORDS, UTILITY COMPANIES AND INDIVIDUALS, AS TO THE LOCATION OF ALL SUBSURFACE STRUCTURES.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES BY CONTACTING "DIG-SAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION. DIG-SAFE TELEPHONE NUMBER: 1-888-344-7233.
- THE CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH THE NEW WORK. HE/SHE SHALL EXCAVATE TO VERIFY PERTINENT DRAINAGE INVERTS AND POTENTIAL UTILITY CONFLICTS. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER IMMEDIATELY.
- ALL EXISTING STRUCTURES AND SURFACES, UNLESS OTHERWISE SHOWN, SHALL BE COMPLETELY REMOVED FROM THE AREAS OF WORK. ALL TREES SCHEDULED FOR REMOVAL SHALL BE FIELD MARKED AND APPROVED FOR REMOVAL BY THE OWNER PRIOR TO CUTTING OPERATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF THE PUBLIC, EMPLOYEES, AND ALL OTHER PERSONS ASSOCIATED WITH THE PROJECT. HE/SHE SHALL COORDINATE AND BE RESPONSIBLE FOR ALL SAFETY SIGNING, BARRIERS AND TEMPORARY PAVEMENT MARKINGS NECESSARY TO PROVIDE A SMOOTH AND PROPER TRANSITION FOR TRAFFIC FLOW.
- IF REQUIRED BY THE CONTRACTOR, OVERHEAD LINES SHALL BE RELOCATED BY THE UTILITY COMPANY AT THE CONTRACTORS EXPENSE.
- ALL SEWER MAINS AND SERVICES SHALL BE INSTALLED AT LEAST 10 FEET HORIZONTALLY OR 18 INCHES VERTICALLY FROM PROPOSED WATER MAINS AND SERVICES AND SHALL MAINTAIN 5 FEET OF COVER OVER THE TOP OF THE PIPING, UNLESS OTHERWISE SHOWN OR APPROVED. PIPES SHALL BE ENCASED IN CONCRETE WHERE THIS SEPARATION CANNOT BE OBTAINED.
- ALL WATER MAINS SHALL BE INSTALLED WITH A MINIMUM OF 5 FEET OF COVER OVER THE TOP OF THE PIPE, UNLESS OTHERWISE SHOWN OR APPROVED.
- WHENEVER SEWER MAINS MUST CROSS WATER MAINS, THE SEWER SHALL BE CONSTRUCTED AS FOLLOWS; A) JOINTS SHALL BE MECHANICAL TYPE WATER PRESSURE RATED WITH ZERO LEAKAGE WHEN TESTED AT 25 PSI FOR GRAVITY SEWERS AND 1.5 TIMES WORKING PRESSURE FOR FORCE MAINS AND JOINTS NOT TO BE LOCATED WITHIN 9 FEET OF THE CROSSING; B) SEWER SERVICES SHOULD BE INSTALLED A MINIMUM OF 18 INCHES BELOW WATER MAINS. IF SEPARATION IS LESS THAN 18 INCHES, SEWER SERVICE SHALL BE CONCRETE ENCASED OR CONSTRUCTED WITH PRESSURE CLASS PVC FOR A DISTANCE OF 10 FEET EACH SIDE OF THE WATER MAIN. 10-FOOT MINIMUM HORIZONTAL SEPARATION DISTANCE SHALL BE MAINTAINED.
- INDIVIDUAL BUILDING OWNERS ARE RESPONSIBLE FOR MAINTENANCE OF THEIR SEWER SERVICE FROM THE BUILDING TO THE CONNECTION TO THE SEWER MAIN.
- ALL SIGNS AND PAVEMENT MARKINGS TO BE INSTALLED WITHIN THE PROJECT SITE SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 14 DAYS PRIOR TO COMMENCING CONSTRUCTION, THE OWNER/DEVELOPER SHALL PRESENT A CONSTRUCTION SCHEDULE TO THE PLANNING DEPARTMENT.
- THE OWNER/DEVELOPER SHALL SUBMIT TWO HARD COPIES OF AS-BUILT DRAWINGS TO THE PLANNING BOARD PRIOR TO FINAL OCCUPANCY. AS BUILTS SHALL INCLUDE ALL LANDBASE AND UTILITIES INFORMATION.
- ONSITE BURIAL OF STUMPS OR ANY OTHER DEBRIS IS PROHIBITED.
- THE REAR OF THE PROPERTY LIES WITHIN THE 100-YEAR FLOOD PLAIN (AE 9) ACCORDING TO F.I.R.M. COMMUNITY PANEL NUMBER 25009C 0109F.
- ALL ELEVATIONS ARE BASED ON N.A.V.D. 1988.

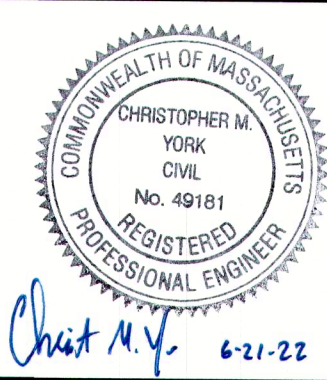
MATERIAL NOTES

ALL MATERIALS OF THE ELEMENTS IN THE SITE PLAN MUST CONFORM TO THE FOLLOWING STANDARDS:

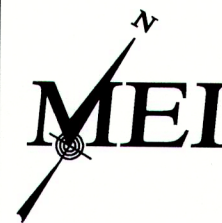
- COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES (LATEST EDITION)
- 521 CMR RULES AND REGULATIONS OF THE ARCHITECTURAL ACCESS BOARD (AAB) AND THE AMERICANS WITH DISABILITIES ACT (ADA)
- SPECIFICATIONS BY THE TOWN OF SALISBURY AS SET FORTH BY SECTION 7 DESIGN STANDARDS IN THE PLANNING BOARD RULES AND REGULATIONS GOVERNING THE SUBDIVISION OF LAND, DATED NOVEMBER 1, 2013
- UTILITIES INSTALLED PER PENNICKUCK WATER SERVICE CORPORATION SPECIFICATIONS

ROADWAY NOTES

- ALL STUMPS, ROCKS, PEAT AND LEDGE WITHIN THE LIMITS OF THE PROPOSED PAVED WAY SHALL BE REMOVED. ALL LEDGE SHALL BE REMOVED TO A MINIMUM DEPTH OF 2' BELOW FINISHED PAVEMENT GRADE.
- ROADWAY SHALL NOT BE CONSTRUCTED DURING FREEZING WEATHER OR ON WET OR FROZEN SUBGRADE.
- GRADING AND ROLLING SHALL BE REQUIRED TO PROVIDE A SMOOTH, EVEN, AND UNIFORM COMPACTED BASE WHICH IS COMPACTED TO A MINIMUM DRY DENSITY OF 95 PERCENT.
- THE MINIMUM SLOPE FROM THE CROWN OF FINISHED BASE COURSE SHALL BE 1/4" PER FOOT UNLESS OTHERWISE SHOWN.
- ALL UNSUITABLE MATERIAL SHALL BE EXCAVATED AND REPLACED WITH SATISFACTORY MATERIAL AND BROUGHT UP TO GRADE WITH GRAVEL BORROW CONTAINING NO STONES GREATER THAN 6" DIAMETER.
- AT ALL TIMES DURING CONSTRUCTION, THE SUB-GRADE AND ALL DITCHES SHALL BE CONSTRUCTED AND MAINTAINED SO THAT THE ROADWAY WILL EFFECTIVELY BE DRAINED.
- THE CONTRACTOR SHALL REFER TO THE SALISBURY PLANNING BOARD RULES AND REGULATIONS GOVERNING THE SUBDIVISION OF LAND, SECTIONS I - VII.



PREPARED FOR
F & D REALTY LLC
1 MELVIN STREET, SUITE D
WAKEFIELD, MA 01880

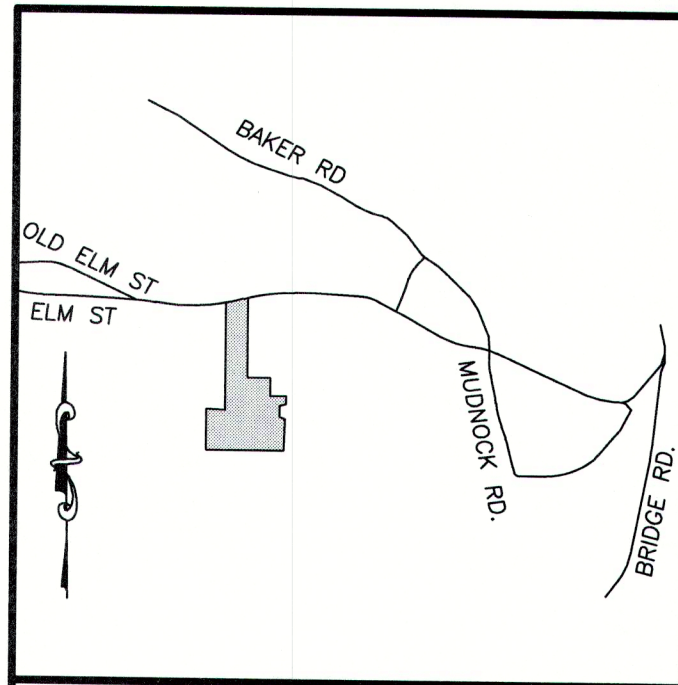


MILLENNIUM ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

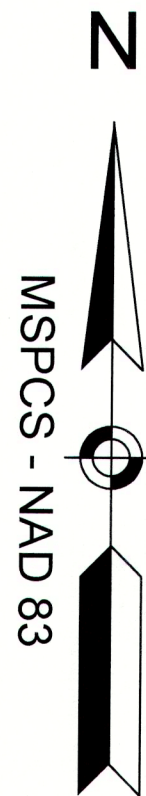
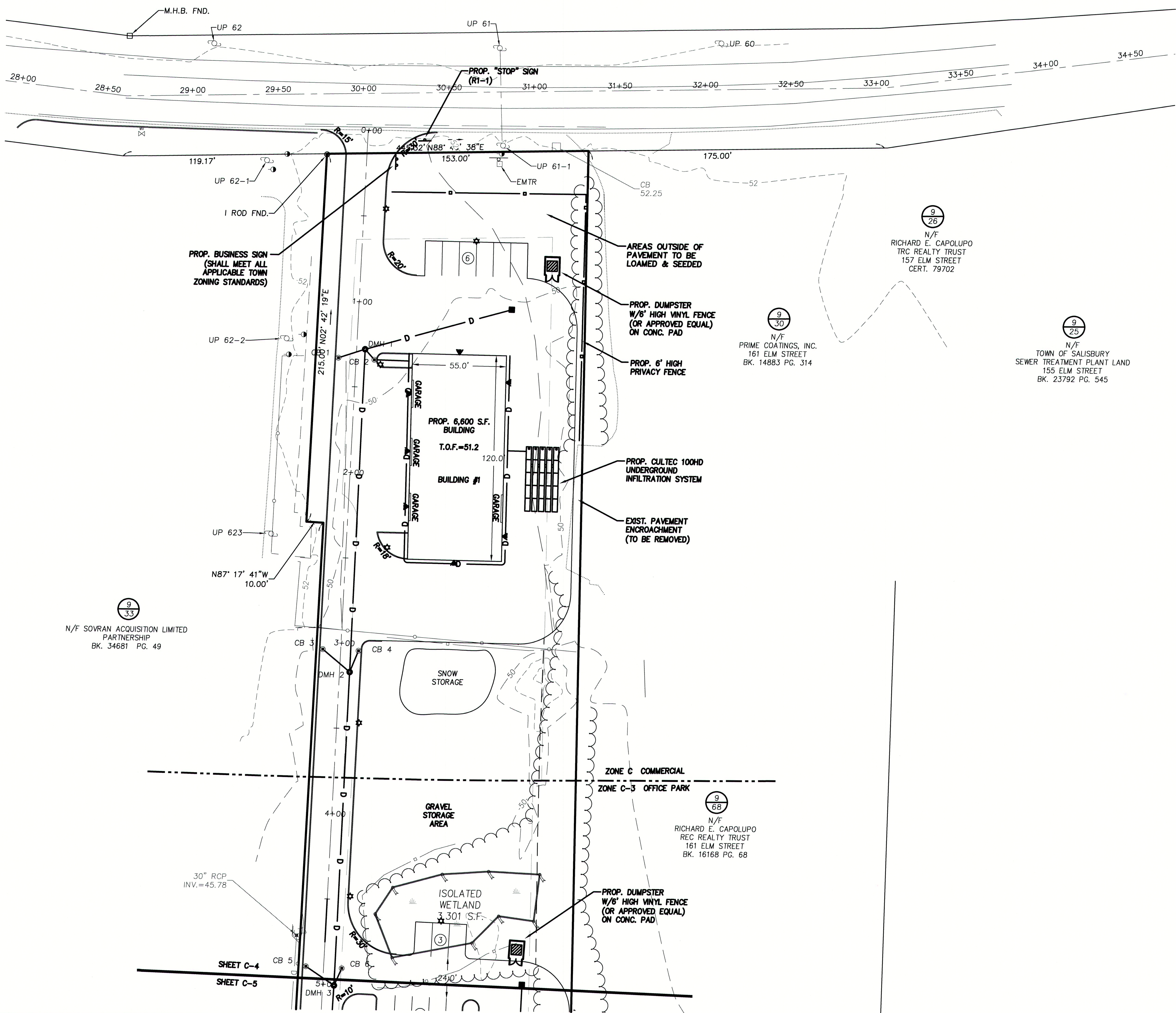
**PLAN OF LAND
IN
SALISBURY, MA**

SHOWING
PROPOSED SITE IMPROVEMENTS
AT
163 ELM STREET

**TYPICAL
SECTIONS/
LEGEND/
GENERAL
NOTES**
SHEET: C-3

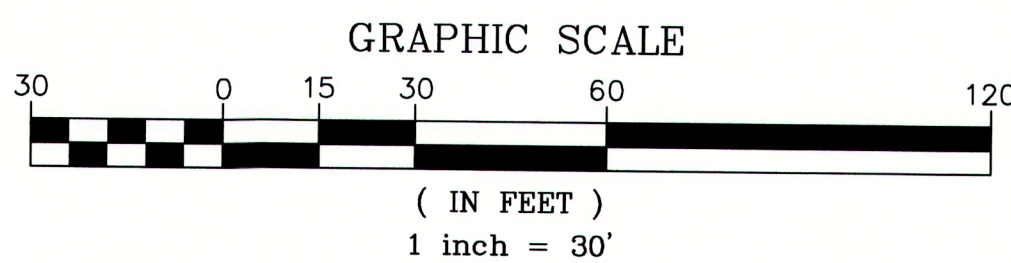


LOCUS MAP
N.T.S.



LEGEND

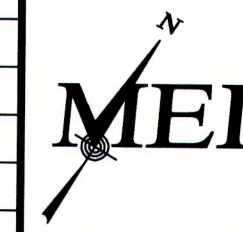
- | | |
|------|--------------------------------|
| —W— | EXISTING WATER MAIN |
| —S— | EXISTING SEWER MAIN |
| —W— | PROPOSED WATER SERVICE |
| —S— | PROPOSED SEWER MAIN |
| —SS— | PROPOSED SEWER SERVICE |
| —G— | PROPOSED GAS MAIN |
| —GS— | PROPOSED GAS SERVICE |
| —UU— | PROPOSED UNDERGROUND UTILITIES |
| | PROPOSED WATER GATE |
| | PROPOSED VERTICAL GRAN. CURB |
| | PROPOSED SLOPED GRAN. EDGING |
| | PROPOSED STREET LIGHT |
| | EXISTING FIRE HYDRANT |
| | PROPOSED WATER SHUTOFF |
| | PROPOSED SEWER SERVICE |
| | PROPOSED BUILDING LIGHT |



PREPARED FOR

F & D REALTY LLC
1 MELVIN STREET, SUITE D
WAKEFIELD, MA 01880

NO.	DATE	ADDRESS TOWN COMMENTS	C.M.Y.
1	6/21/22		
		DESCRIPTION	BY



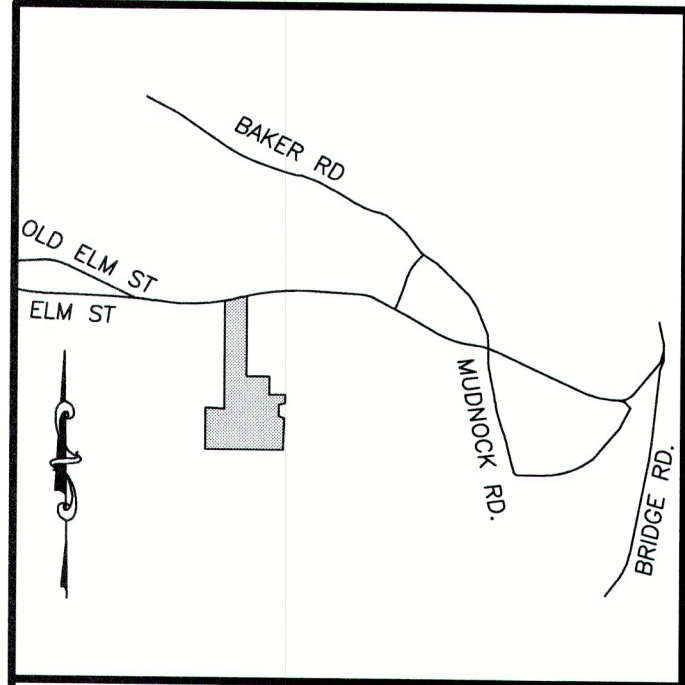
MILLENNIUM ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

SCALE: 1"=30'	DESIG. BY: C.M.Y.	PROJECT: M183284
DATE: JUN. 1, 2022	CHKD. BY: E.W.B.	

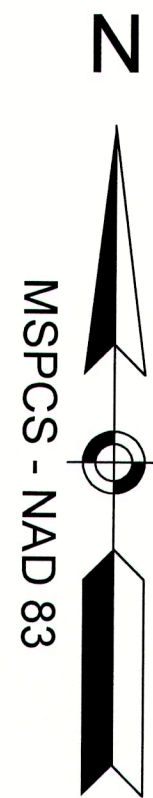
PLAN OF LAND
IN
SALISBURY, MA
SHOWING
PROPOSED SITE IMPROVEMENTS
AT
163 ELM STREET

SITE PLAN

SHEET: C-4

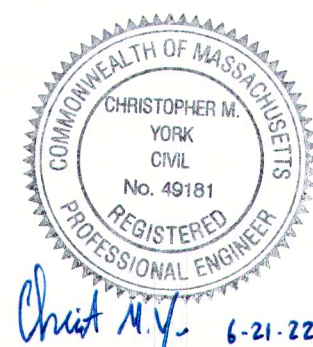
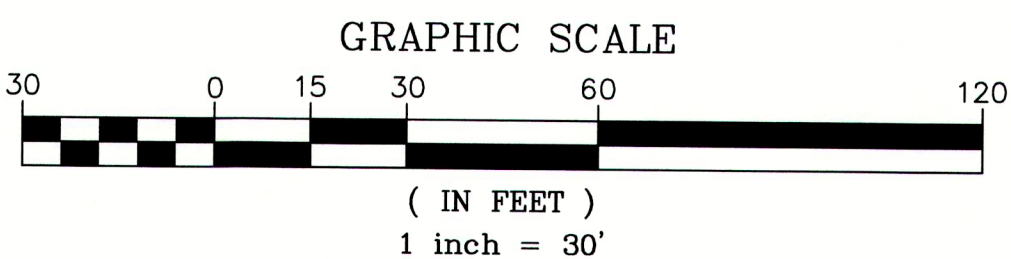


LOCUS MAP
N.T.S.



9
33
N/F SOVRAN ACQUISITION LIMITED
PARTNERSHIP
BK. 34681 PG. 49

- LEGEND**
- W ——— EXISTING WATER MAIN
 - S ——— EXISTING SEWER MAIN
 - W ——— PROPOSED WATER SERVICE
 - S ——— PROPOSED SEWER MAIN
 - SS ——— PROPOSED SEWER SERVICE
 - G ——— PROPOSED GAS MAIN
 - GS ——— PROPOSED GAS SERVICE
 - UU ——— PROPOSED UNDERGROUND UTILITIES
 - W — PROPOSED WATER GATE
 - W — EXISTING FIRE HYDRANT
 - W — PROP. VERTICAL GRAN. CURB
 - W — PROP. SLOPED GRAN. EDGING
 - W — PROPOSED STREET LIGHT
 - W — EXISTING FIRE HYDRANT
 - W — PROPOSED WATER SHUTOFF
 - W — PROPOSED SEWER SERVICE
 - W — PROPOSED BUILDING LIGHT



PREPARED FOR
F & D REALTY LLC
1 MELVIN STREET, SUITE D
WAKEFIELD, MA 01880

NO.	DATE	DESCRIPTION	BY
1	6/21/22	ADDRESS TOWN COMMENTS	C.M.Y.

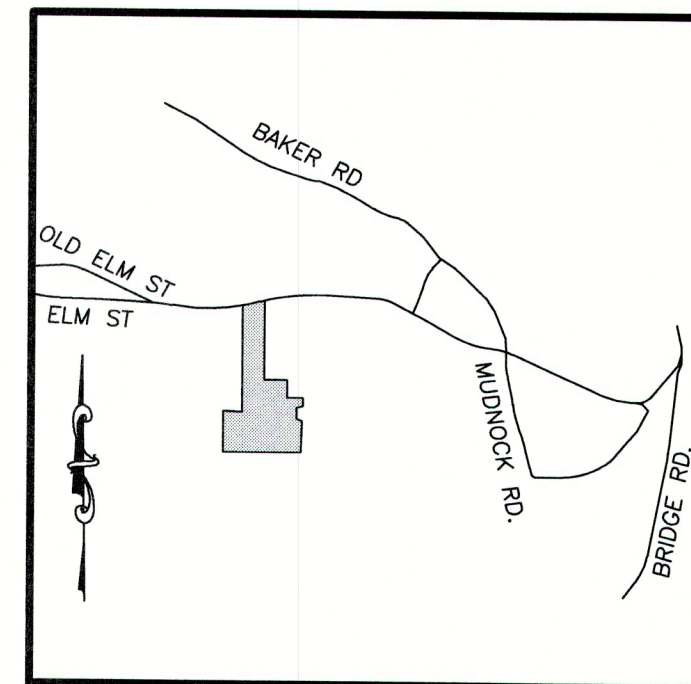
MEI **MILLENNIUM ENGINEERING, INC.**
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

SCALE: 1"=30'
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DESIGN BY: C.M.Y.
CHECKED BY: E.W.B.
PROJECT: M183284

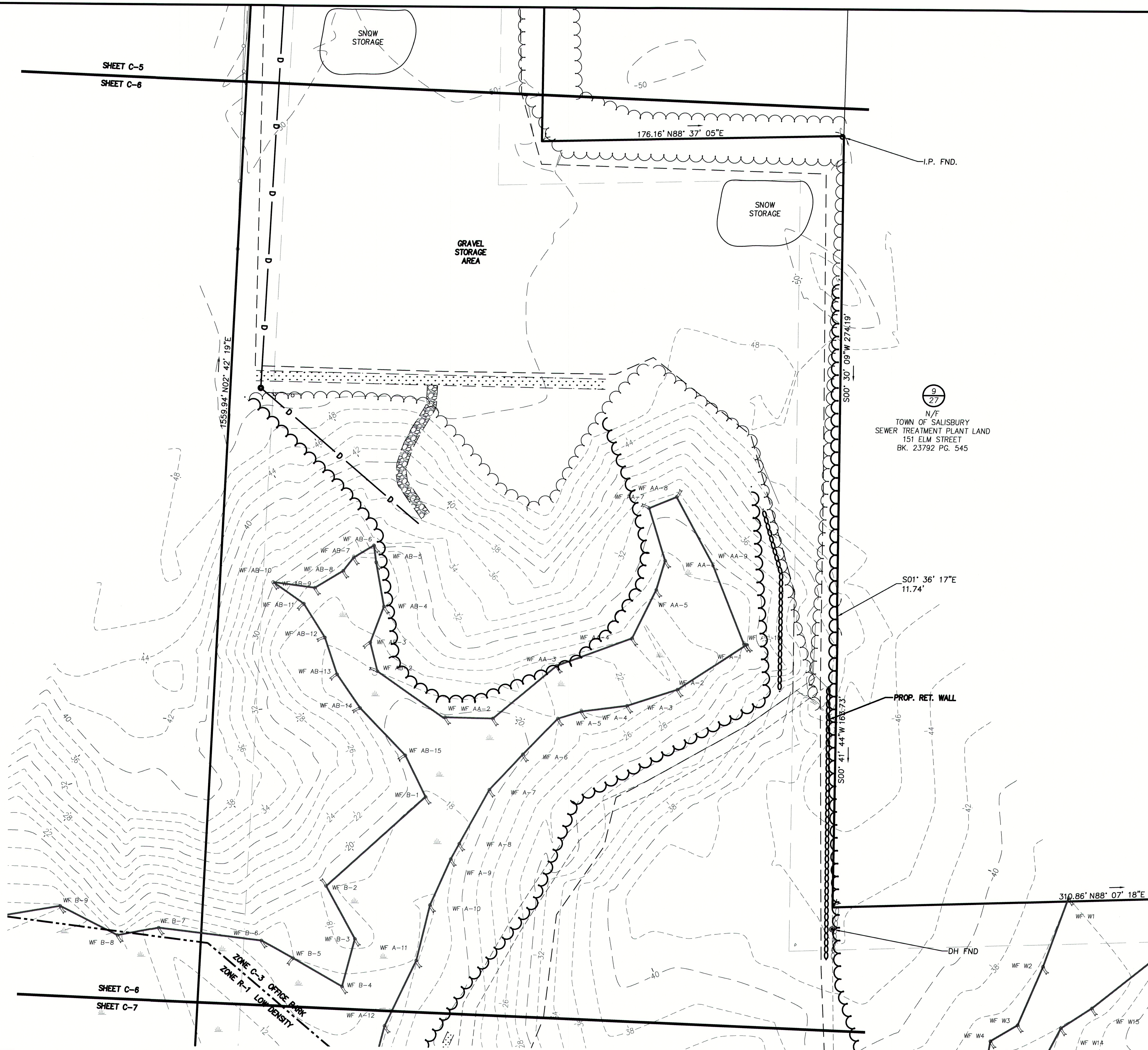
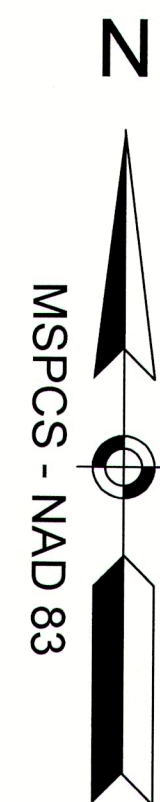
PLAN OF LAND
IN
SALISBURY, MA
SHOWING
PROPOSED SITE IMPROVEMENTS
AT
163 ELM STREET

**SITE
PLAN**

SHEET: C-5

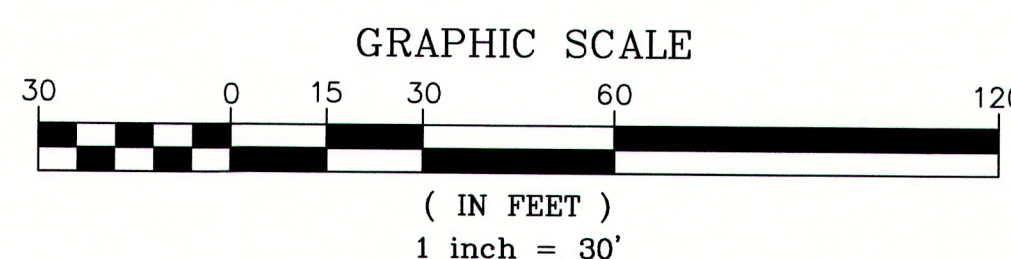


LOCUS MAP
N.T.S.



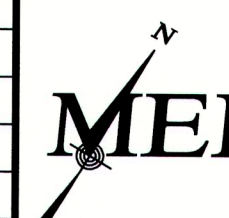
LEGEND

- | | |
|----|--------------------------------|
| W | EXISTING WATER MAIN |
| S | EXISTING SEWER MAIN |
| W | PROPOSED WATER SERVICE |
| S | PROPOSED SEWER MAIN |
| SS | PROPOSED SEWER SERVICE |
| G | PROPOSED GAS MAIN |
| gs | PROPOSED GAS SERVICE |
| UU | PROPOSED UNDERGROUND UTILITIES |
| W | PROPOSED WATER GATE |
| W | EXISTING FIRE HYDRANT |
| W | PROPOSED WATER SHUTOFF |
| W | PROPOSED SEWER SERVICE |
| W | PROPOSED STREET LIGHT |
| W | PROPOSED BUILDING LIGHT |



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1	6/21/22		
		DESCRIPTION	BY



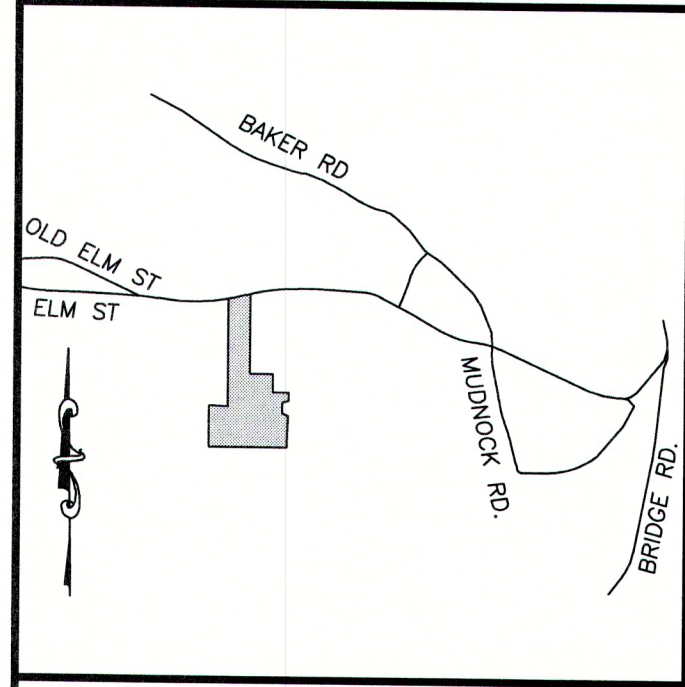
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DATE: JUN. 1, 2022	CHKD. BY: E.W.B.	

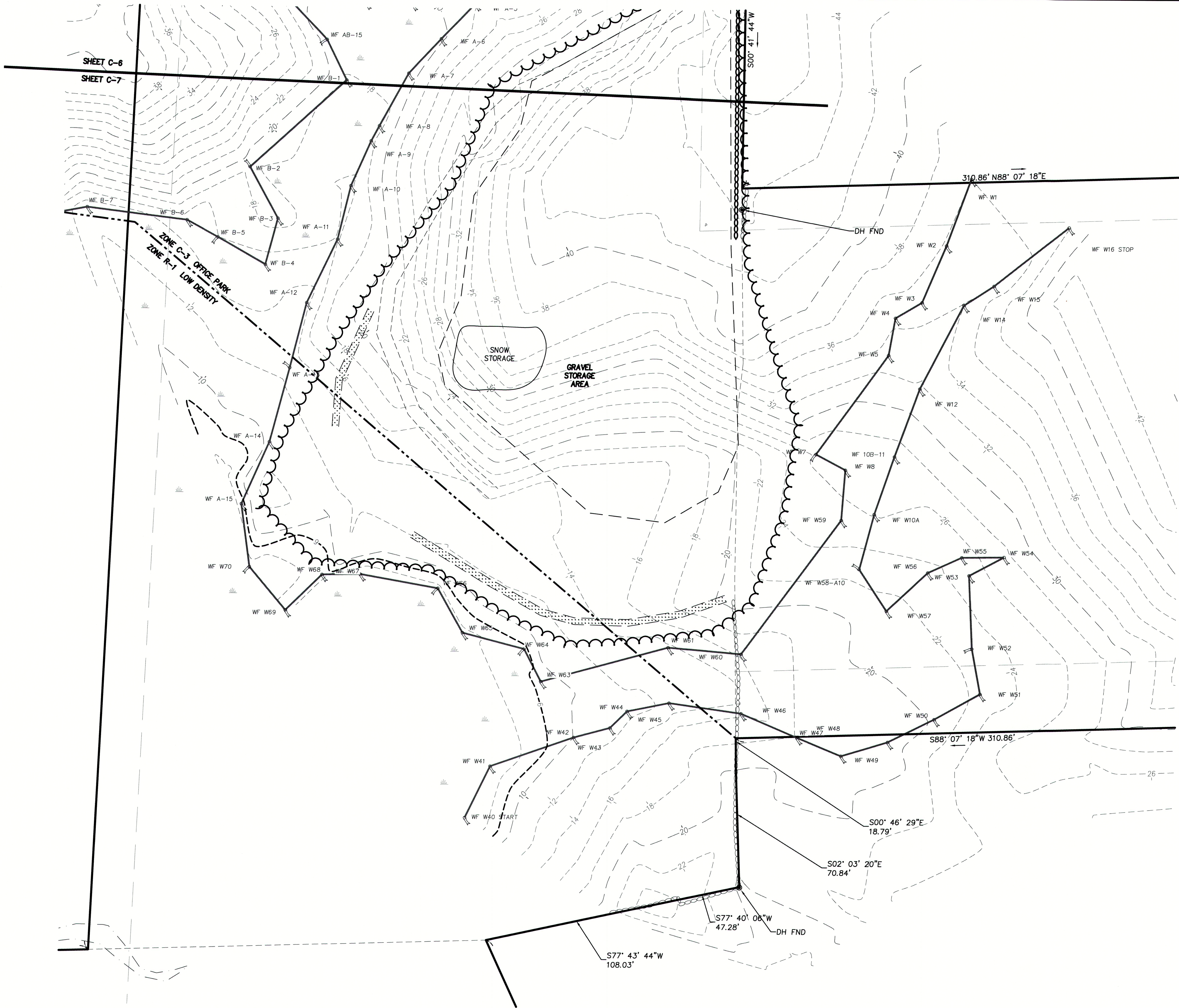
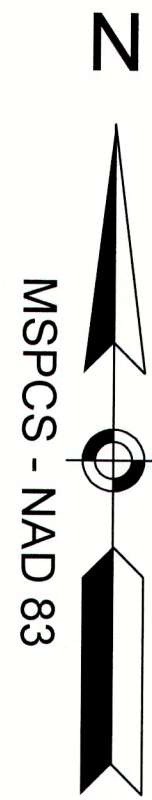
PLAN OF LAND
IN
SALISBURY, MA
SHOWING
PROPOSED SITE IMPROVEMENTS
AT
163 ELM STREET

SITE PLAN

SHEET: C-6

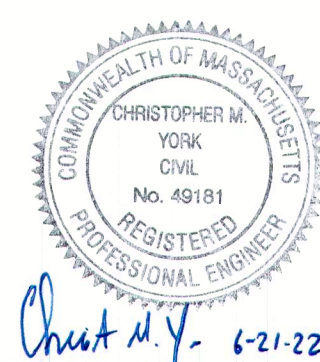
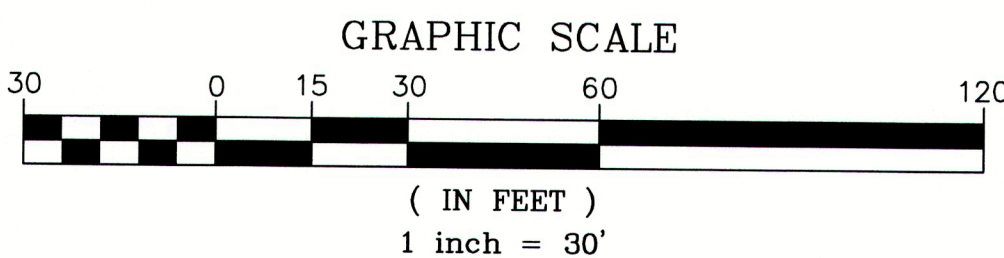


LOCUS MAP
N.T.S.



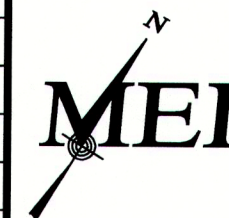
LEGEND

- | | |
|------|--------------------------------|
| —W— | EXISTING WATER MAIN |
| —S— | EXISTING SEWER MAIN |
| —W— | PROPOSED WATER SERVICE |
| —S— | PROPOSED SEWER MAIN |
| —SS— | PROPOSED SEWER SERVICE |
| —G— | PROPOSED GAS MAIN |
| —GS— | PROPOSED GAS SERVICE |
| —UU— | PROPOSED UNDERGROUND UTILITIES |
| | PROPOSED WATER GATE |
| | PROPOSED VERTICAL GRAN. CURB |
| | PROPOSED SLOPED GRAN. EDGING |
| | PROPOSED STREET LIGHT |
| | EXISTING FIRE HYDRANT |
| | PROPOSED WATER SHUTOFF |
| | PROPOSED SEWER SERVICE |
| | PROPOSED BUILDING LIGHT |



PREPARED FOR
F & D REALTY LLC
1 MELVIN STREET, SUITE D
WAKEFIELD, MA 01880

NO.	DATE	DESCRIPTION	C.M.Y.	BY
1	6/21/22	ADDRESS TOWN COMMENTS		



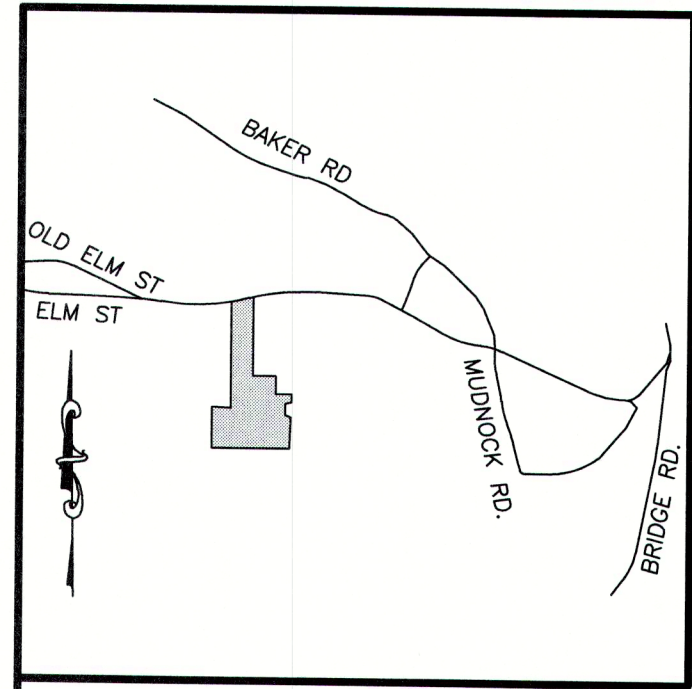
MILLENNIUM ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

SCALE: 1"=30'	DESG. BY: C.M.Y.	PROJECT: M183284
DATE: JUN. 1, 2022	CHKD. BY: E.W.B.	

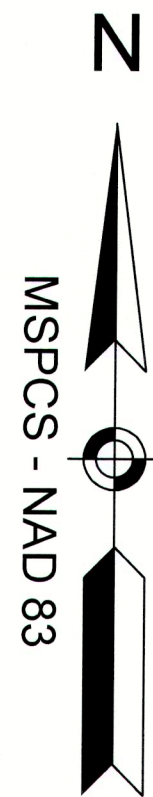
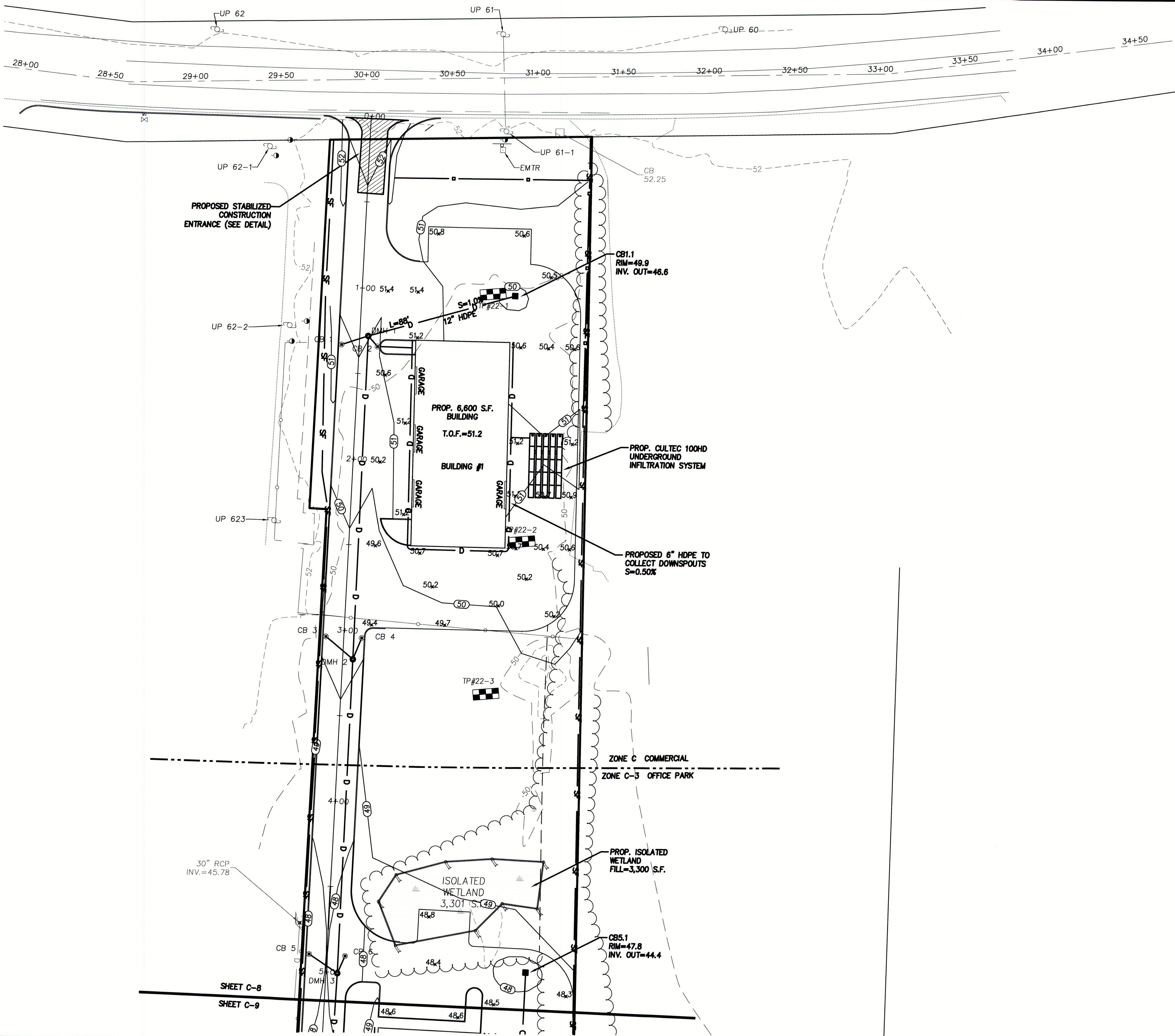
PLAN OF LAND
IN
SALISBURY, MA
SHOWING
PROPOSED SITE IMPROVEMENTS
AT
163 ELM STREET

**SITE
PLAN**

SHEET: C-7



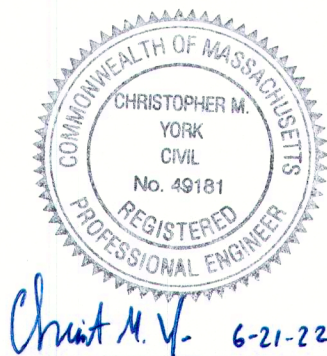
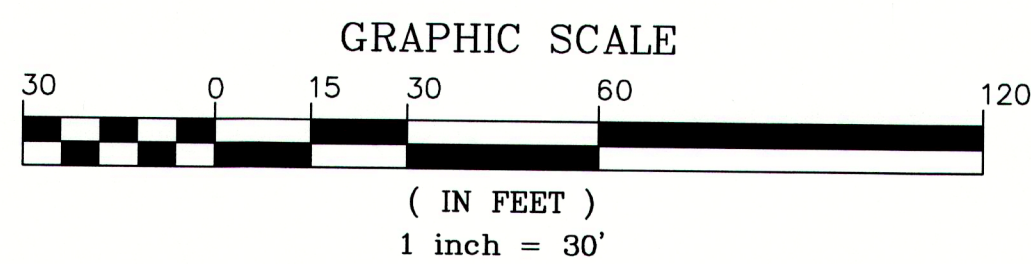
LOCUS MAP
N.T.S.



LEGEND

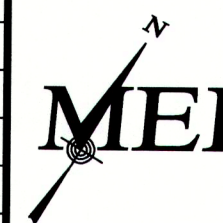
- 28— EXIST. CONTOUR
- (27)— PROP. CONTOUR
- SF— PROP. SILTATION BARRIER
- PROP. TREELINE/LIMIT OF WORK
- PROP. CONC. SIDEWALK

- PROP. CATCH BASIN
- EXIST. CATCH BASIN
- 28.3 PROP. SPOT GRADE
- EXIST. UTILITY POLE
- PROP. OUTLET STRUCTURE
- WETLANDS
- EXIST. TEST PIT



PREPARED FOR
F & D REALTY LLC
1 MELVIN STREET, SUITE D
WAKEFIELD, MA 01880

NO.	DATE	ADDRESS TOWN COMMENTS	C.M.Y.
1	6/21/22		
NO.	DATE	DESCRIPTION	BY



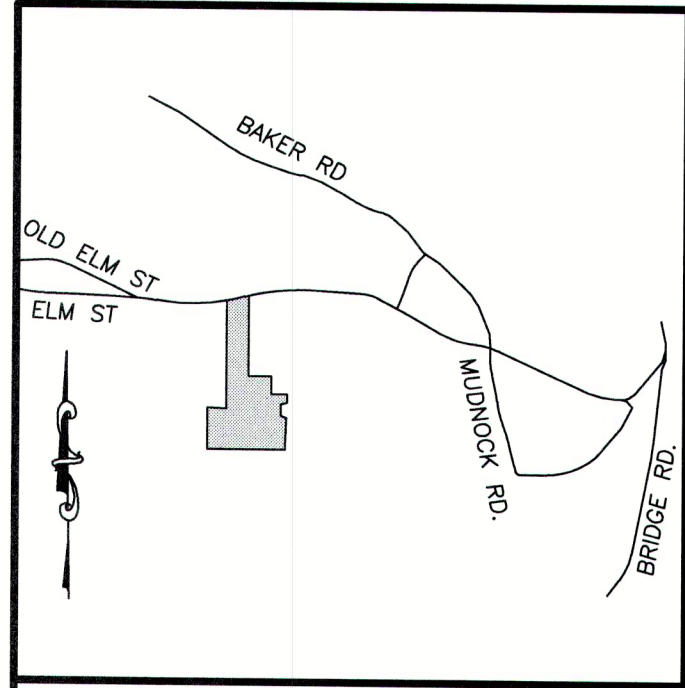
MILLENNIUM ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

SCALE: 1"=30'	DESIG. BY: C.M.Y.
DATE: JUN. 1, 2022	CHKD. BY: E.W.B.
PROJECT: M183284	

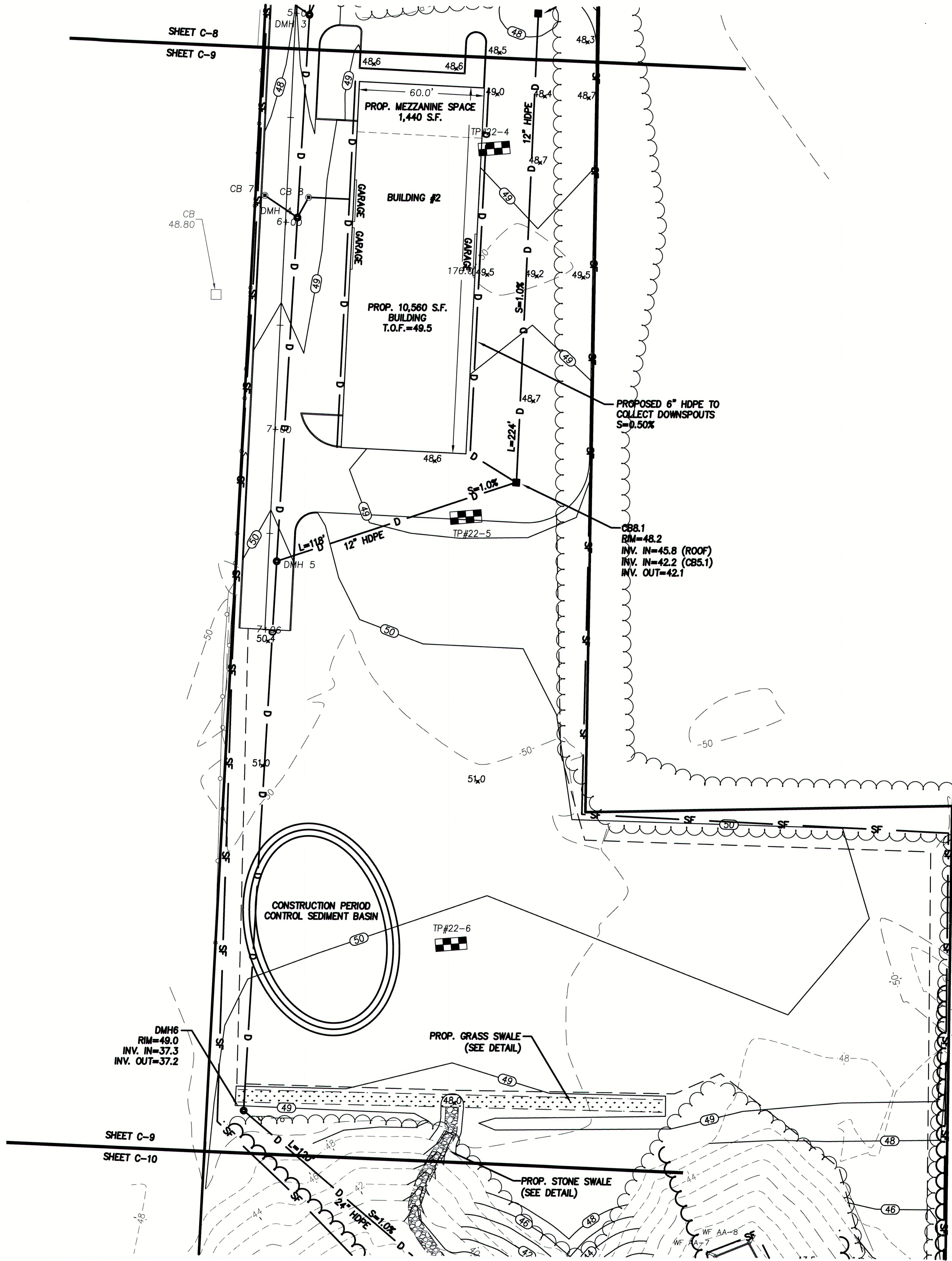
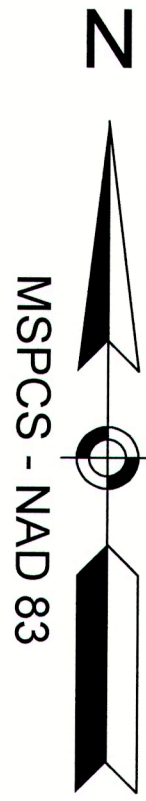
PLAN OF LAND
IN
SALISBURY, MA
SHOWING
PROPOSED SITE IMPROVEMENTS
AT
163 ELM STREET

**GRADING
PLAN**

SHEET: C-8



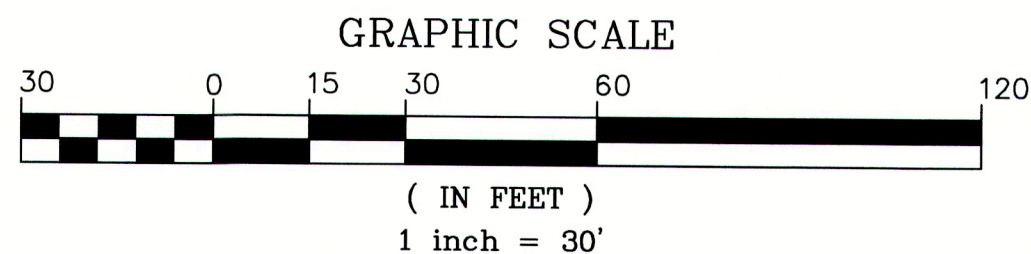
LOCUS MAP
N.T.S.



LEGEND

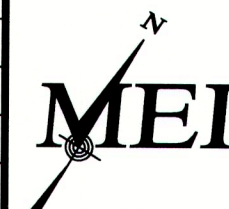
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- 27 PROP. CONTOUR
- SF PROP. SILTATION BARRIER
- PROP. TREELINE/LIMIT OF WORK
- PROP. CONC. SIDEWALK

- PROP. CATCH BASIN
- EXIST. CATCH BASIN
- PROP. SPOT GRADE
- EXIST. UTILITY POLE
- PROP. OUTLET STRUCTURE
- WETLANDS
- EXIST. TEST PIT



PREPARED FOR
F & D REALTY LLC
1 MELVIN STREET, SUITE D
WAKEFIELD, MA 01880

NO.	DATE	DESCRIPTION	BY
1	6/21/22	ADDRESS TOWN COMMENTS	C.M.Y.



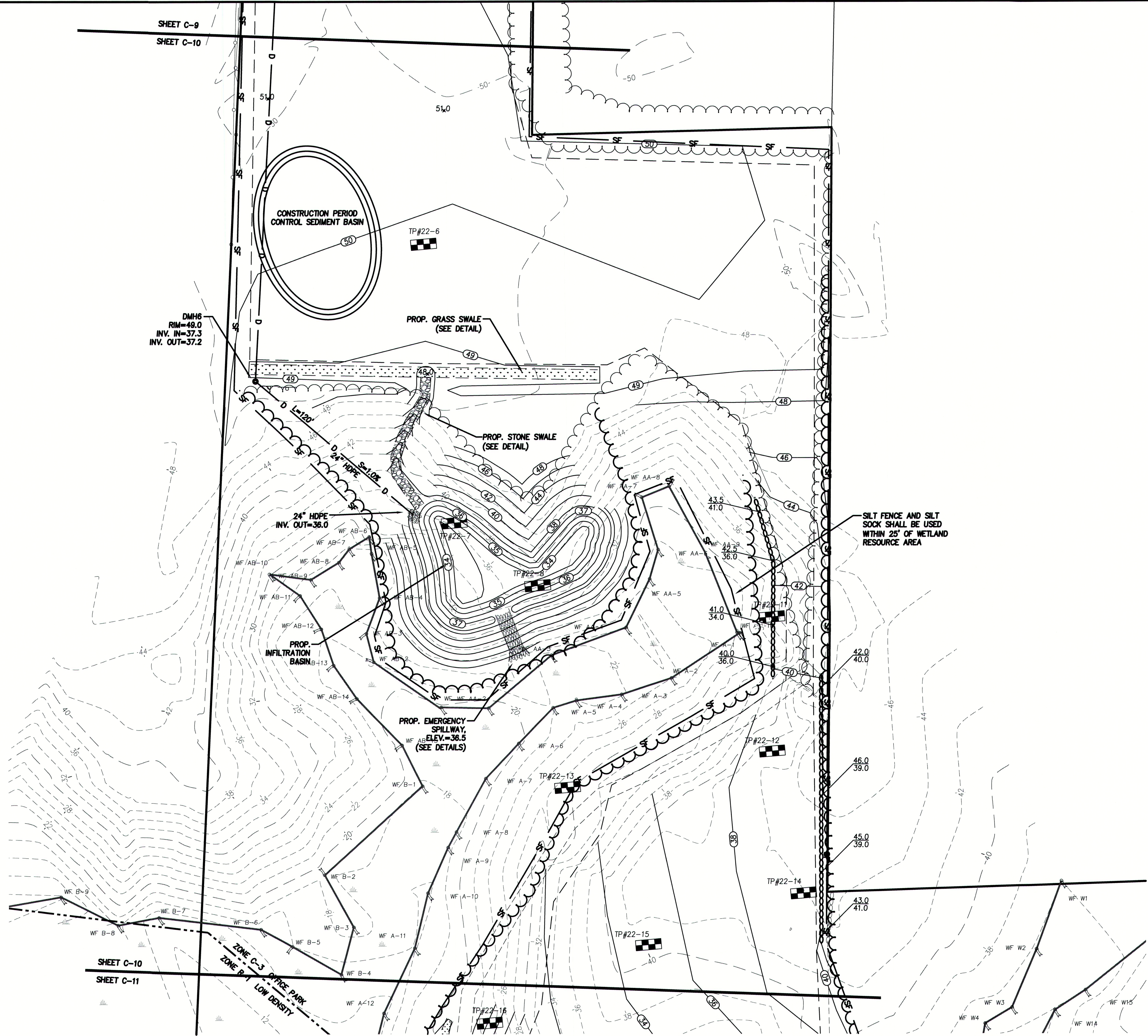
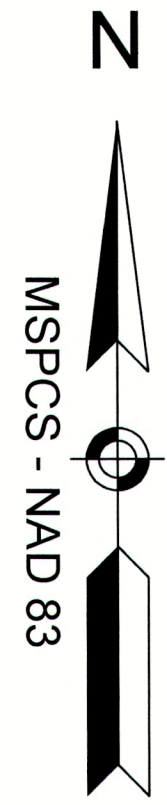
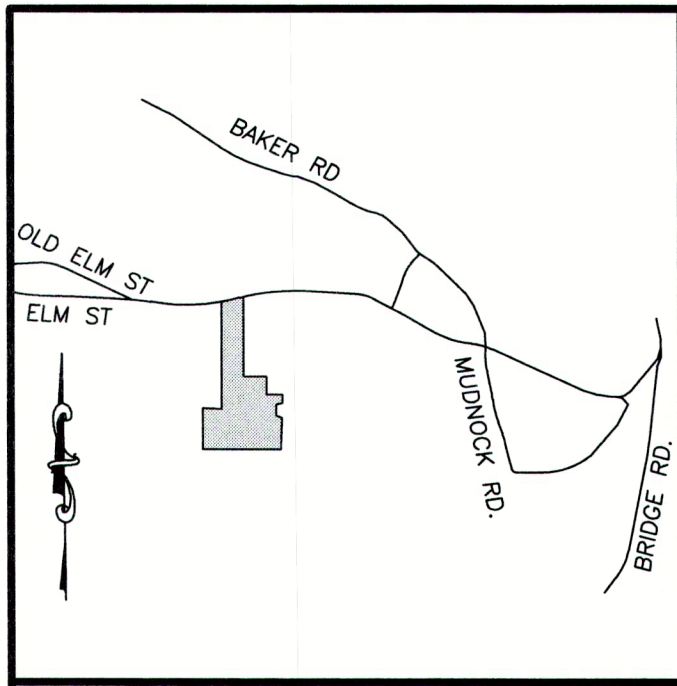
MILLENNIUM ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

SCALE: 1"=30'	DESIG. BY: C.M.Y.	PROJECT: M183284
DATE: JUN. 1, 2022	CHKD. BY: E.W.B.	

PLAN OF LAND
IN
SALISBURY, MA
SHOWING
PROPOSED SITE IMPROVEMENTS
AT
163 ELM STREET

**GRADING
PLAN**

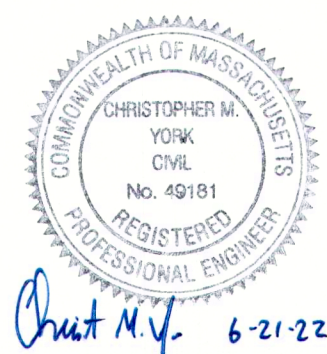
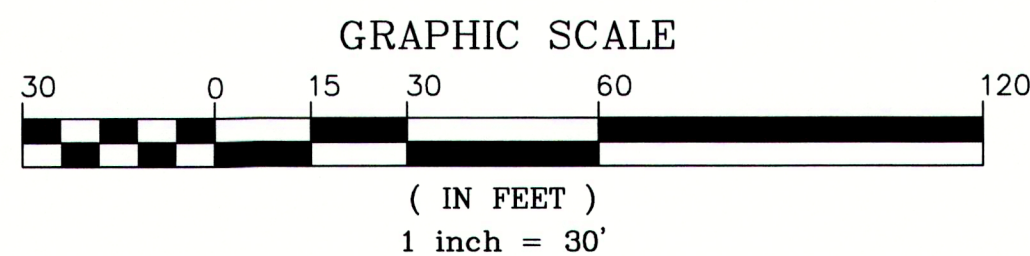
SHEET: C-9



LEGEND

	EXIST. CONTOUR		EXIST. CATCH BASIN
	PROP. CONTOUR		EXIST. UTILITY POLE
	PROP. SILTATION BARRIER		WETLANDS
	PROP. TREELINE/LIMIT OF WORK		EXIST. TEST PIT
	PROP. CONC. SIDEWALK		

	PROP. CATCH BASIN		EXIST. CATCH BASIN
	PROP. SPOT GRADE		
	PROP. OUTLET STRUCTURE		



PREPARED FOR
F & D REALTY LLC
1 MELVIN STREET, SUITE D
WAKEFIELD, MA 01880

NO.	DATE	DESCRIPTION	BY
1	6/21/22	ADDRESS TOWN COMMENTS	C.M.Y.

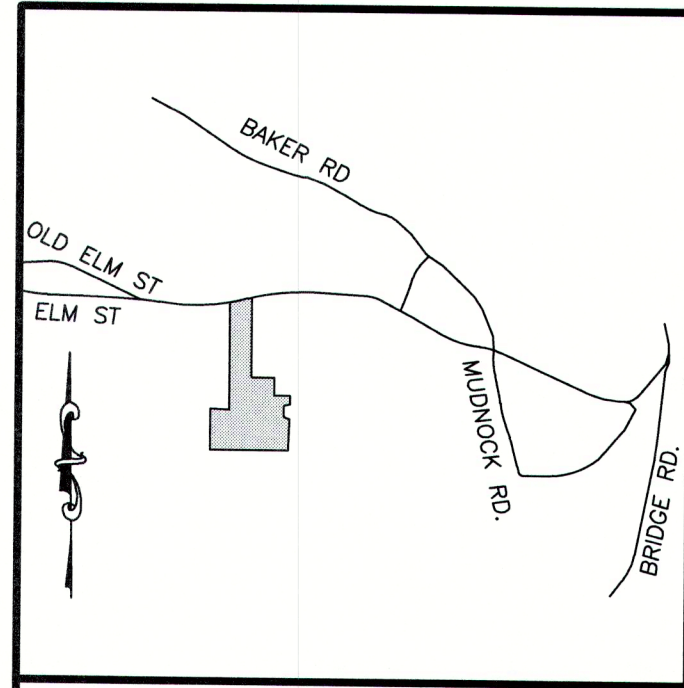
MEI **MILLENNIUM ENGINEERING, INC.**
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

SCALE: 1"=30'	DESC. BY: C.M.Y.	PROJECT: M183284
DATE: JUN. 1, 2022	CHKD. BY: E.W.B.	

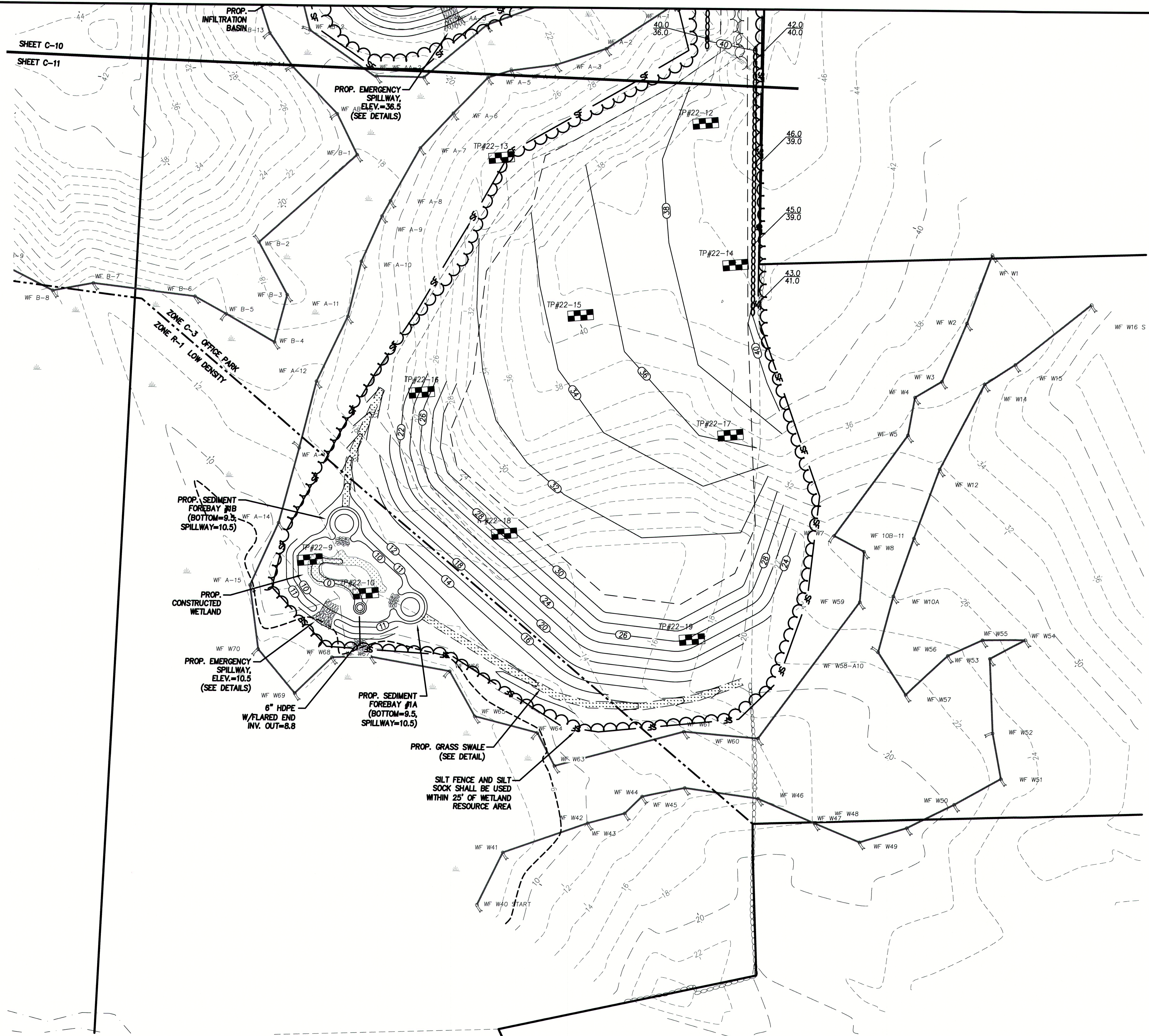
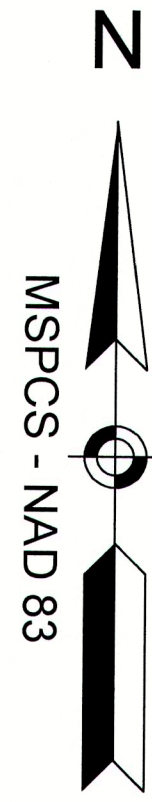
PLAN OF LAND
IN
SALISBURY, MA
SHOWING
PROPOSED SITE IMPROVEMENTS
AT
163 ELM STREET

GRADING PLAN

SHEET: C-10



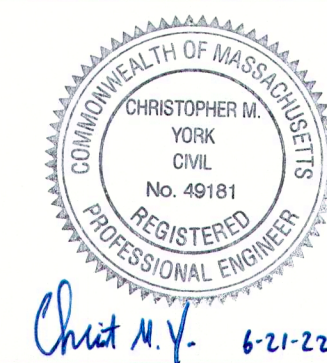
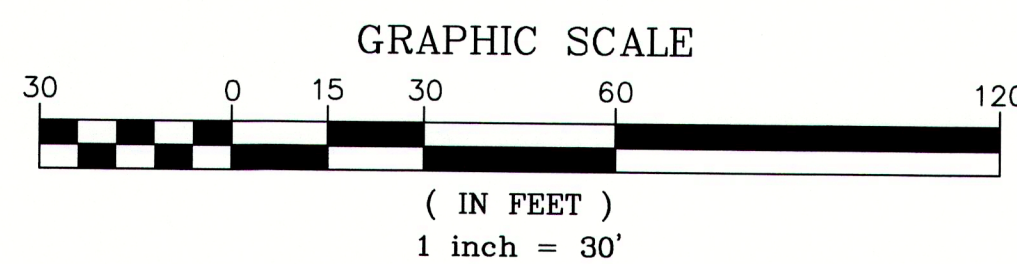
LOCUS MAP
N.T.S.



LEGEND

- EXIST. CONTOUR
- PROP. CONTOUR
- PROP. SILTATION BARRIER
- PROP. TREELINE/LIMIT OF WORK
- PROP. CONC. SIDEWALK

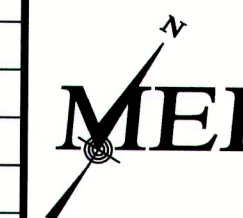
- PROP. CATCH BASIN
- EXIST. CATCH BASIN
- PROP. SPOT GRADE
- EXIST. UTILITY POLE
- PROP. OUTLET STRUCTURE
- WETLANDS
- EXIST. TEST PIT



PREPARED FOR

F & D REALTY LLC
1 MELVIN STREET, SUITE D
WAKEFIELD, MA 01880

NO.	DATE	ADDRESS TOWN COMMENTS	C.M.Y.
1	6/21/22		
NO.	DATE	DESCRIPTION	BY



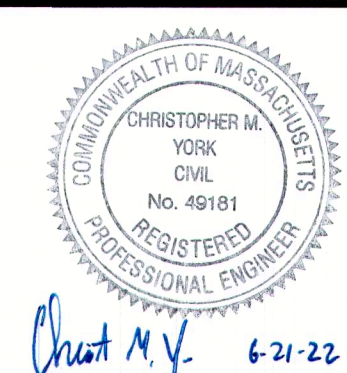
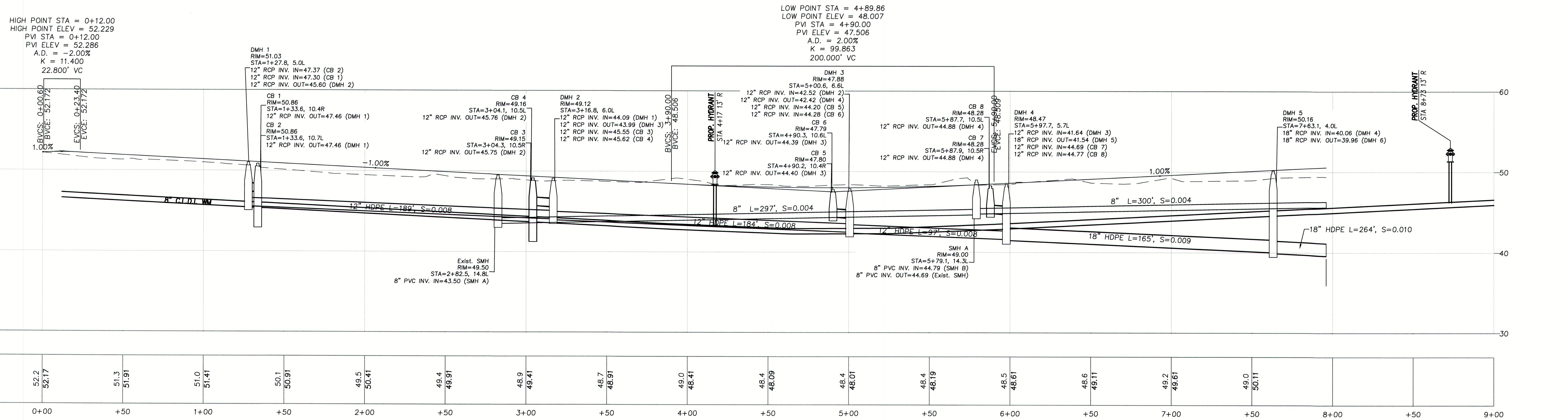
MILLENNIUM ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

SCALE: 1"=30'	DESIG. BY: C.M.Y.	PROJECT: M183284
DATE: JUN. 1, 2022	CHKD. BY: E.W.B.	

PLAN OF LAND
IN
SALISBURY, MA
SHOWING
PROPOSED SITE IMPROVEMENTS
AT
163 ELM STREET

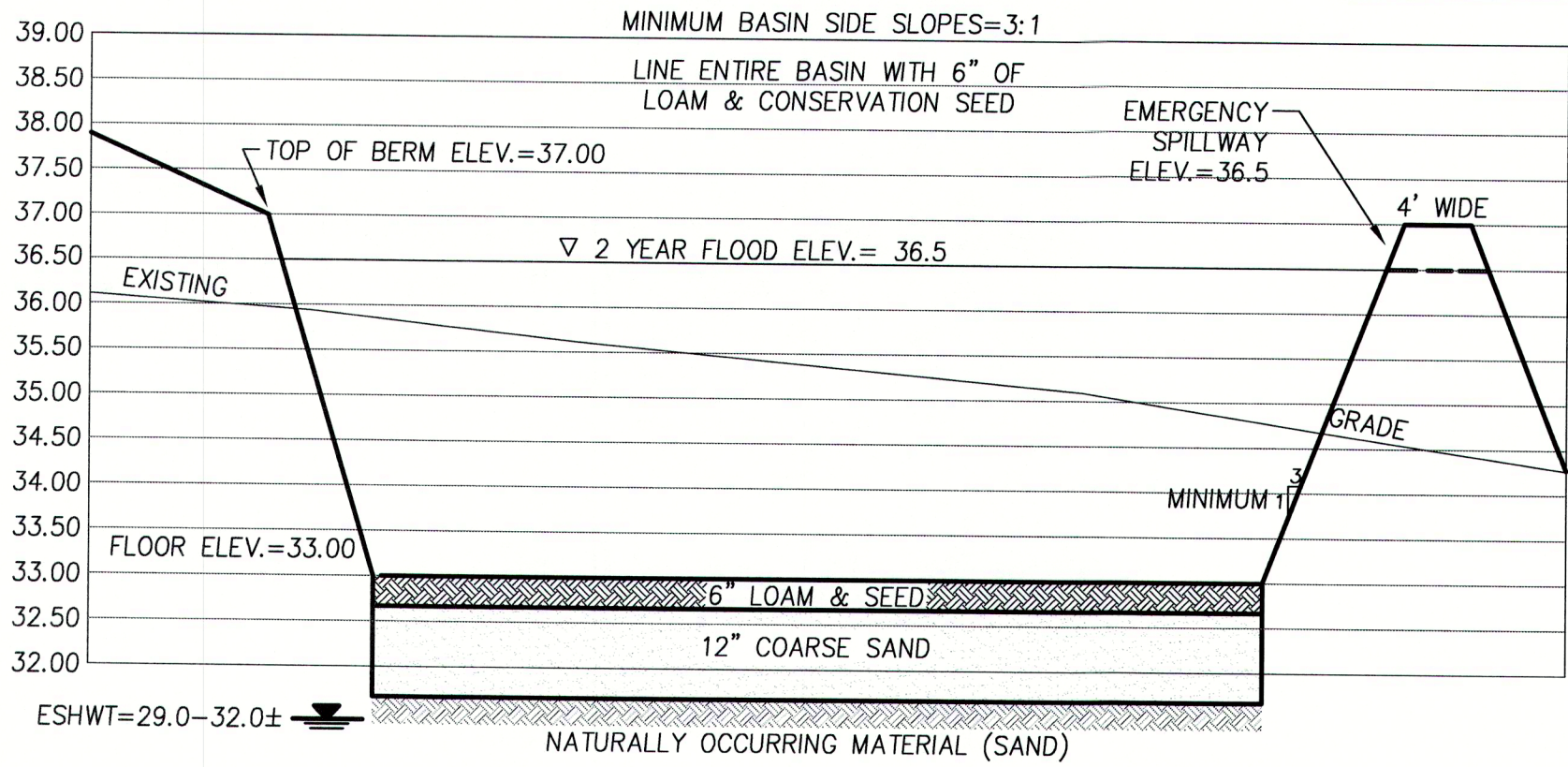
**GRADING
PLAN**

SHEET: C-11



UTILITY PLAN & PROFILE

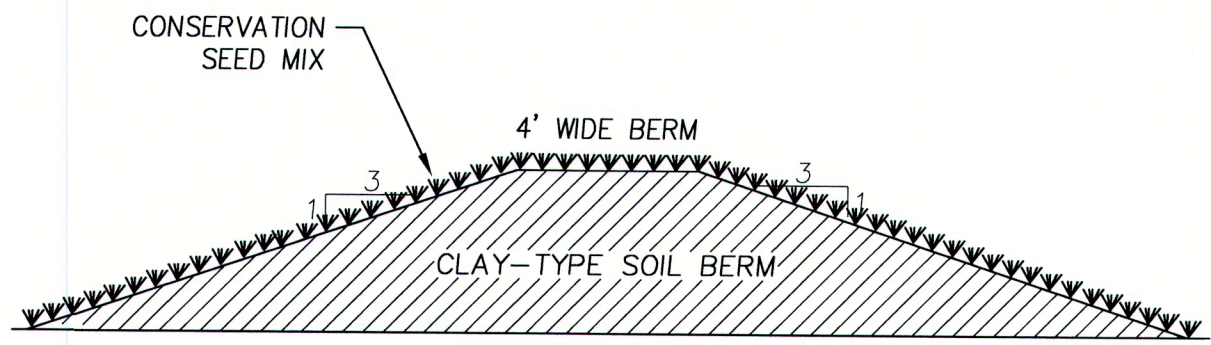
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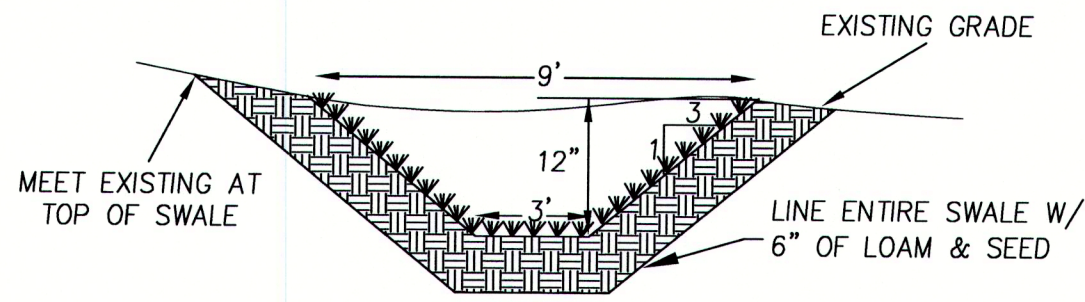
INFILTRATION BASIN
TYP. CROSS-SECTION
HORIZ. SCALE: N.T.S.
VERT. SCALE: 1"=2'

CONSTRUCTION SPECIFICATIONS

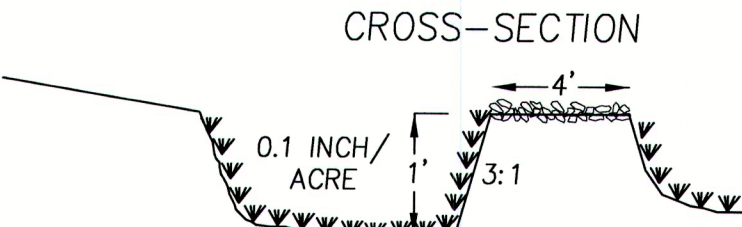
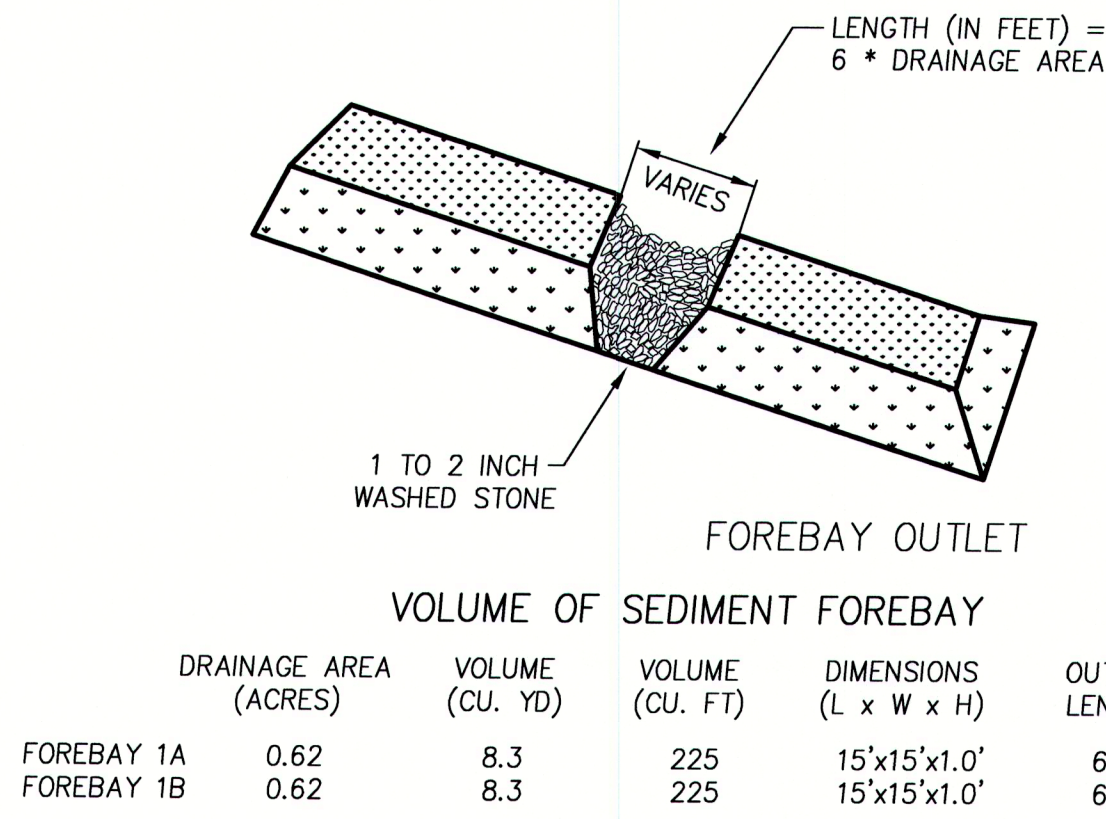
- BERMS SHALL BE CONSTRUCTED OF FILL MATERIAL FREE OF ROOTS, STUMPS, WOOD, RUBBISH, STONES GREATER THAN 6", OR OTHER OBJECTIONABLE MATERIALS. FILL MATERIAL FOR THE CENTER OF THE BERM SHALL CONFORM TO UNIFIED SOIL CLASSIFICATION GC, SC, CH, OR CL AND HAVE AT LEAST 30% PASSING THE #200 SIEVE. MATERIALS USED IN THE OUTER SHELL OF THE BERMS SHALL BE CAPABLE OF SUPPORTING THE VEGETATION SPECIFIED ON THE PLANS.
- FILL MATERIALS SHALL BE PLACED IN MAXIMUM 8-INCH LIFTS AND COMPACTED WITH A MINIMUM REQUIRED DENSITY OF NOT LESS THAN 95% OF MAXIMUM DRY DENSITY.
- PRIOR TO FILL MATERIAL INSTALLATION, ALL TOPSOIL, SUBSOIL, AND UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL.
- AFTER THE INFILTRATION BASIN IS EXCAVATED TO THE FINAL DESIGN ELEVATION, THE FLOOR SHALL BE DEEPLY TILLED WITH A ROTARY TILLER OR DISC HARROW TO RESTORE INFILTRATION RATES, FOLLOWED BY A PASS WITH A LEVELING DRAG.
- EROSION CONTROL MATTING SHALL BE INSTALLED ON ALL OUTSIDE SLOPES OF STORMWATER BASINS. MATTING SHALL BE A WOVEN JUTE MESH MANUFACTURED BY MACCAFERRI COMPANY, OR APPROVED EQUAL.
- THE INFILTRATION BASIN BOTTOM SHALL BE CONSTRUCTED OF 6" LOAM & CONSERVATION SEED OVER A 12" LAYER OF COARSE SAND.



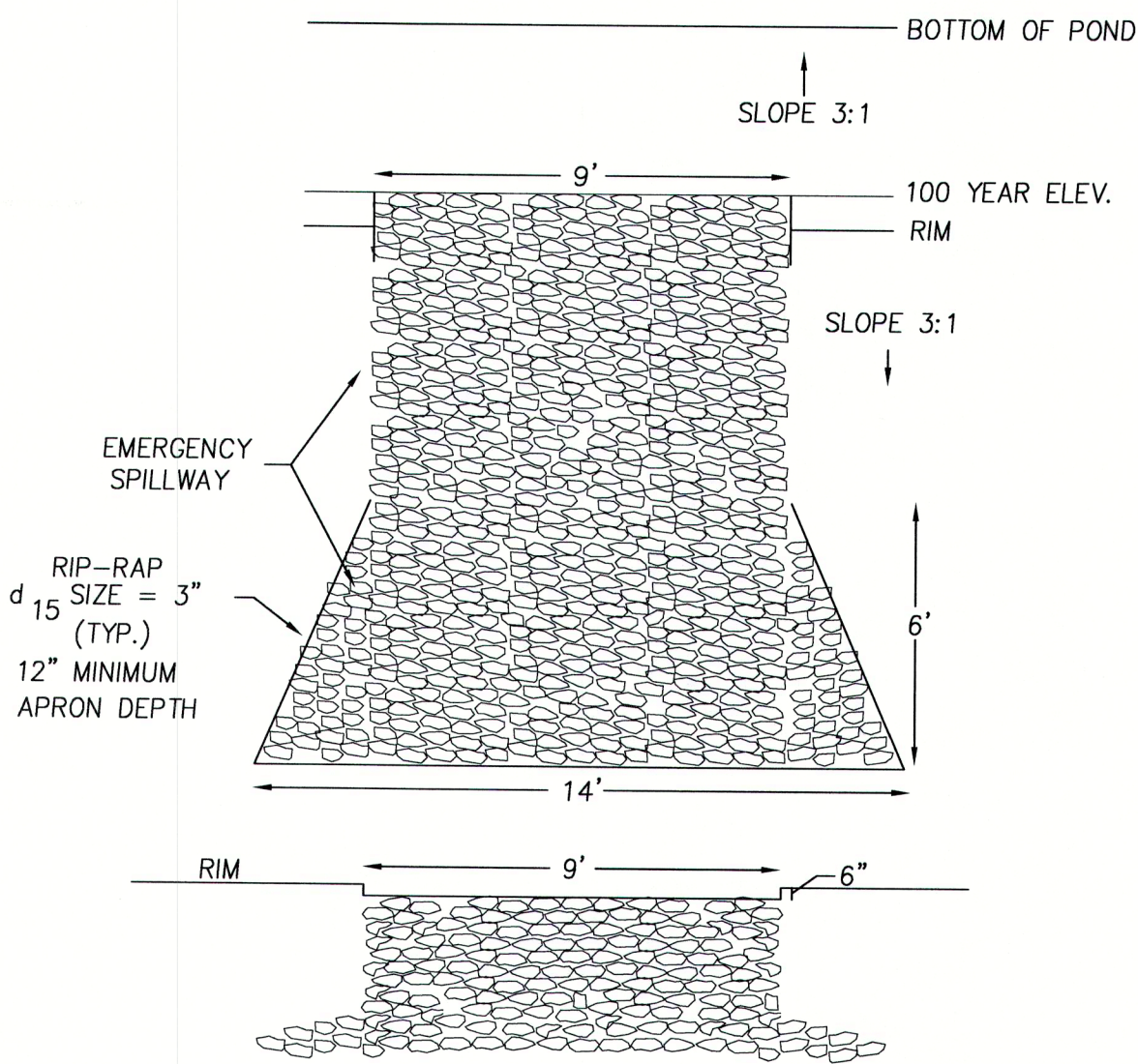
INFILTRATION BASIN
BERM DETAIL
N.T.S.



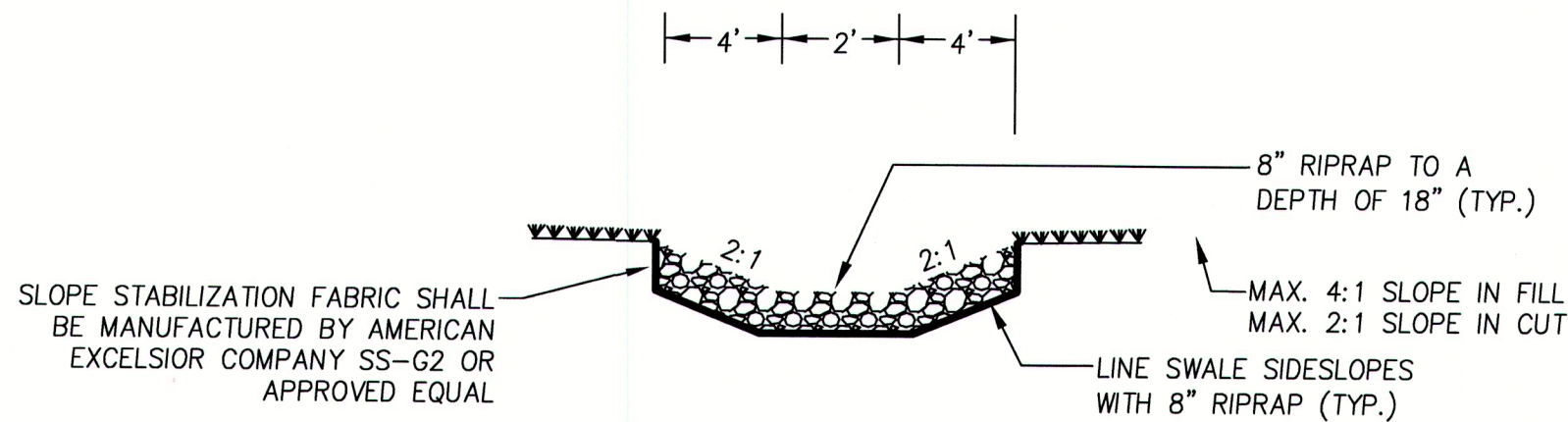
GRASS SWALE
DETAIL
N.T.S.



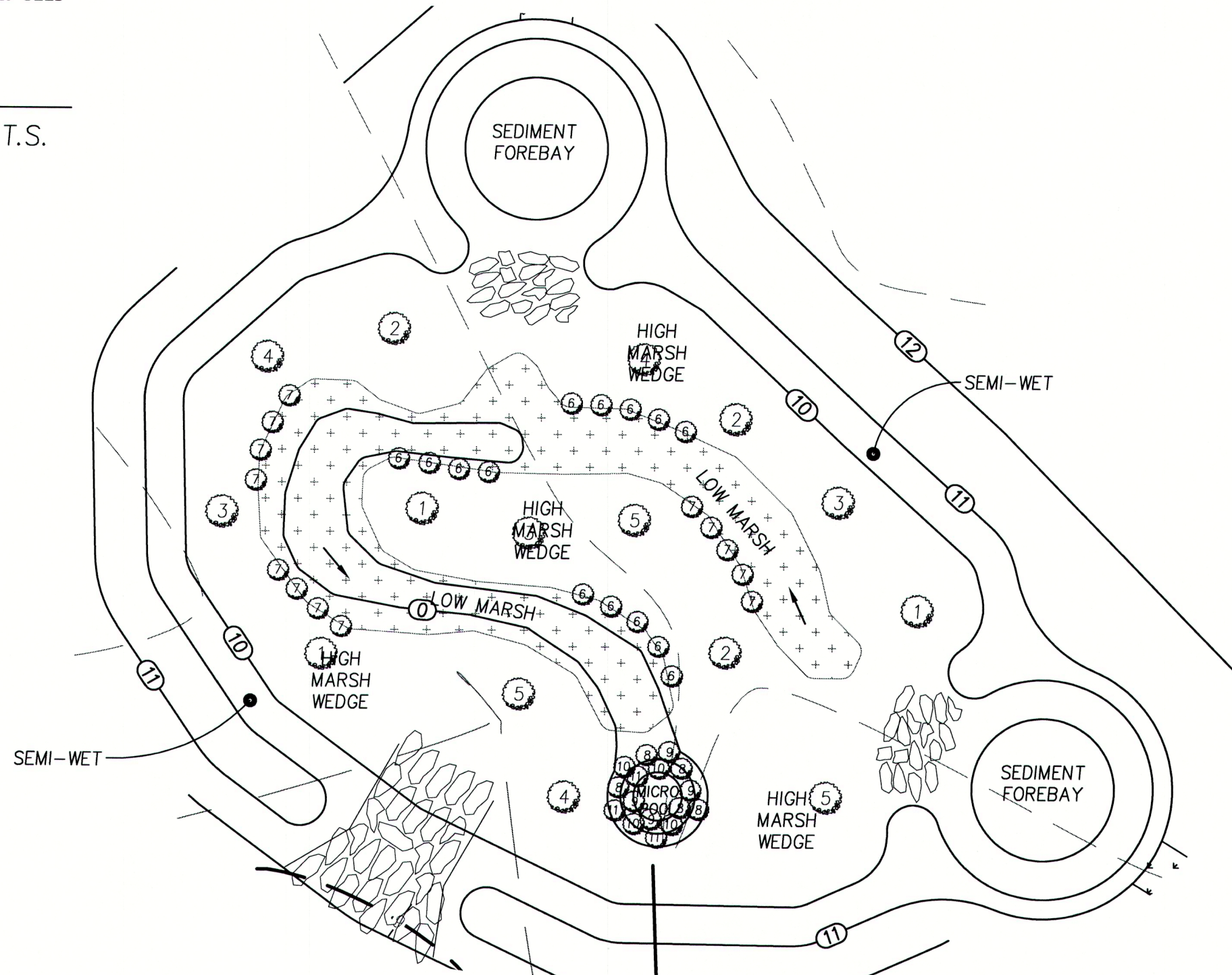
SEDIMENT FOREBAY
DETAIL
N.T.S.



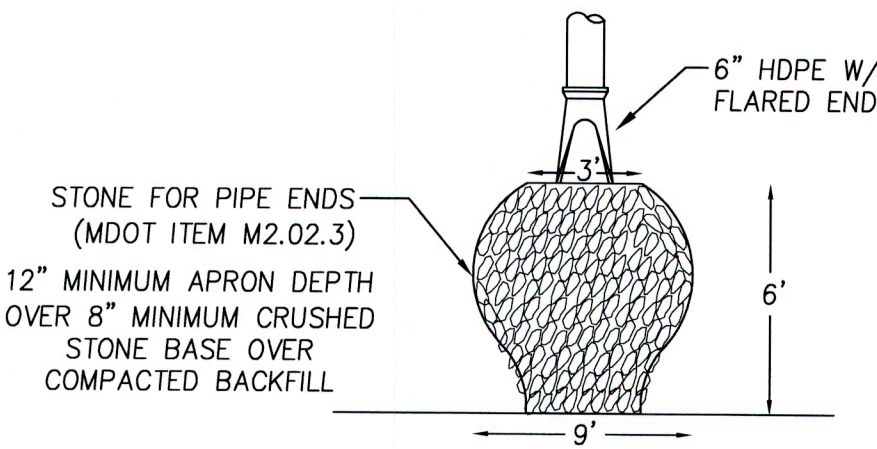
TYPICAL SPILLWAY
PLAN VIEW
N.T.S.



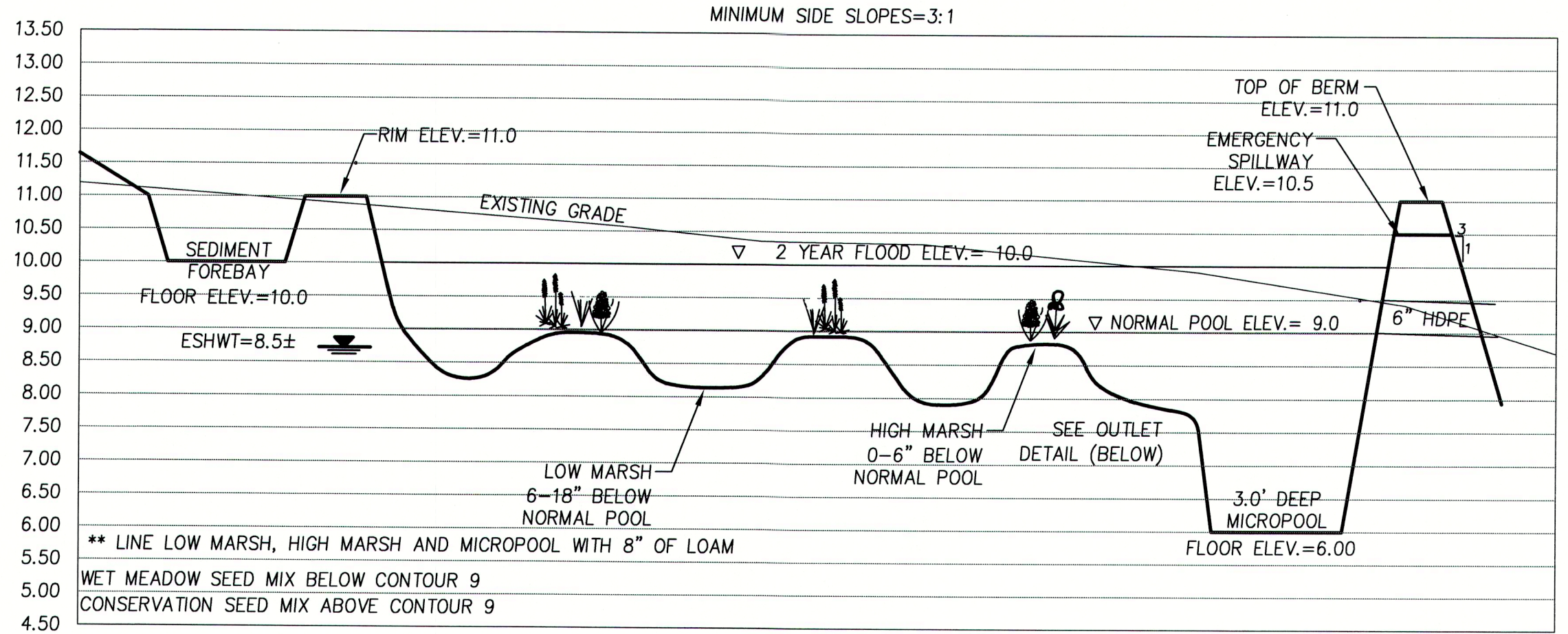
TYPICAL STONE LINED
DRAINAGE CHANNEL DETAIL
N.T.S.



CONSTRUCTED WETLAND
LAYOUT
HORIZ. SCALE: 1"=10'



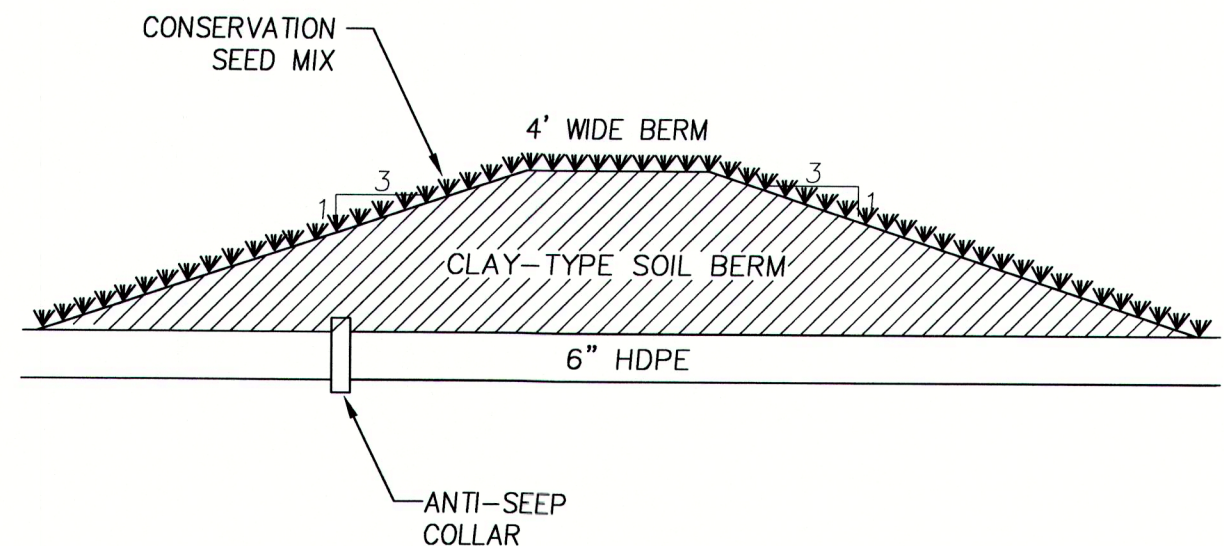
TYPICAL RIP-RAP
APRON DETAIL
N.T.S.



CONSTRUCTED WETLAND
PROFILE VIEW
HORIZ. SCALE: N.T.S.
VERT. SCALE: 1"=2'

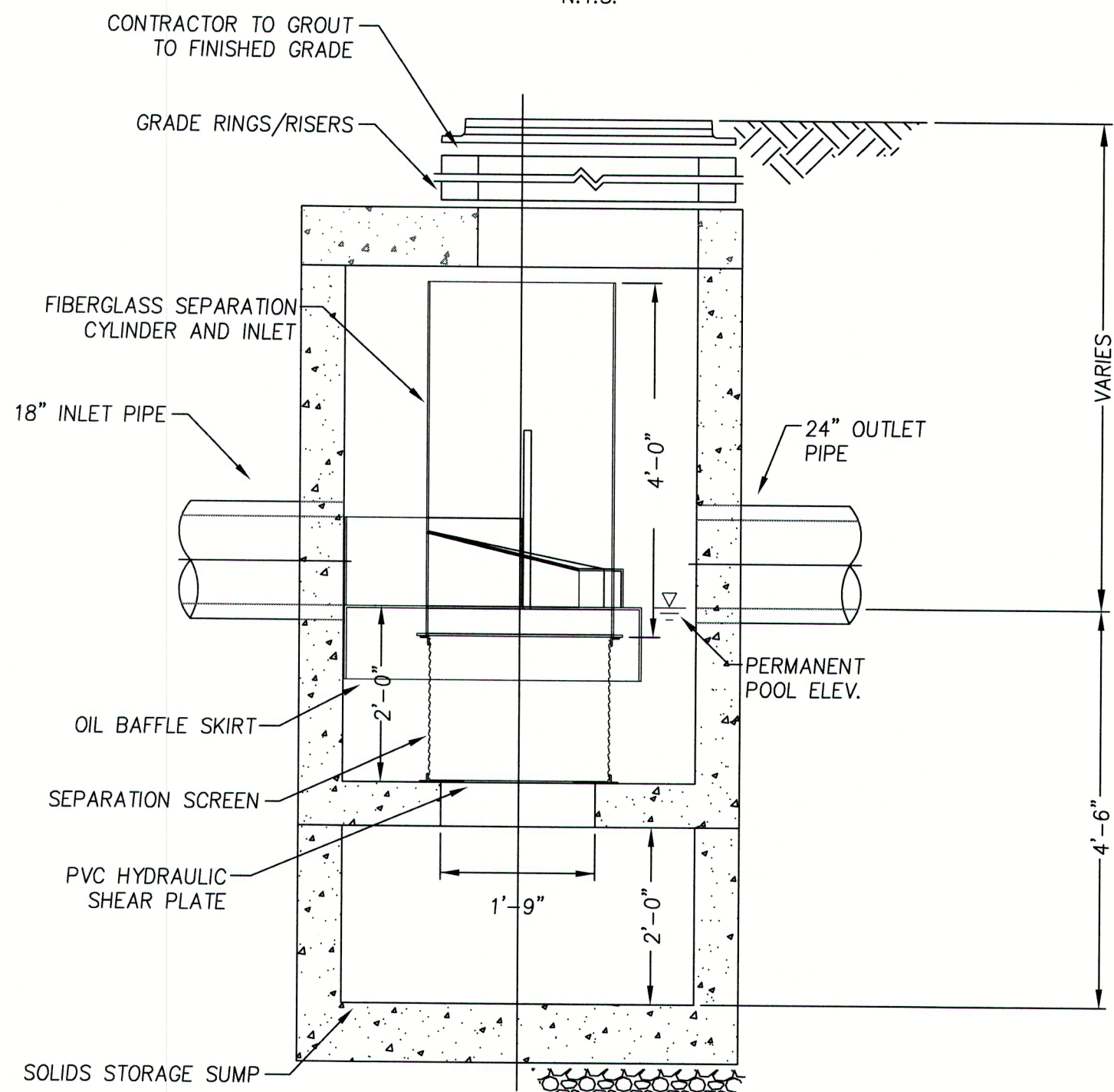
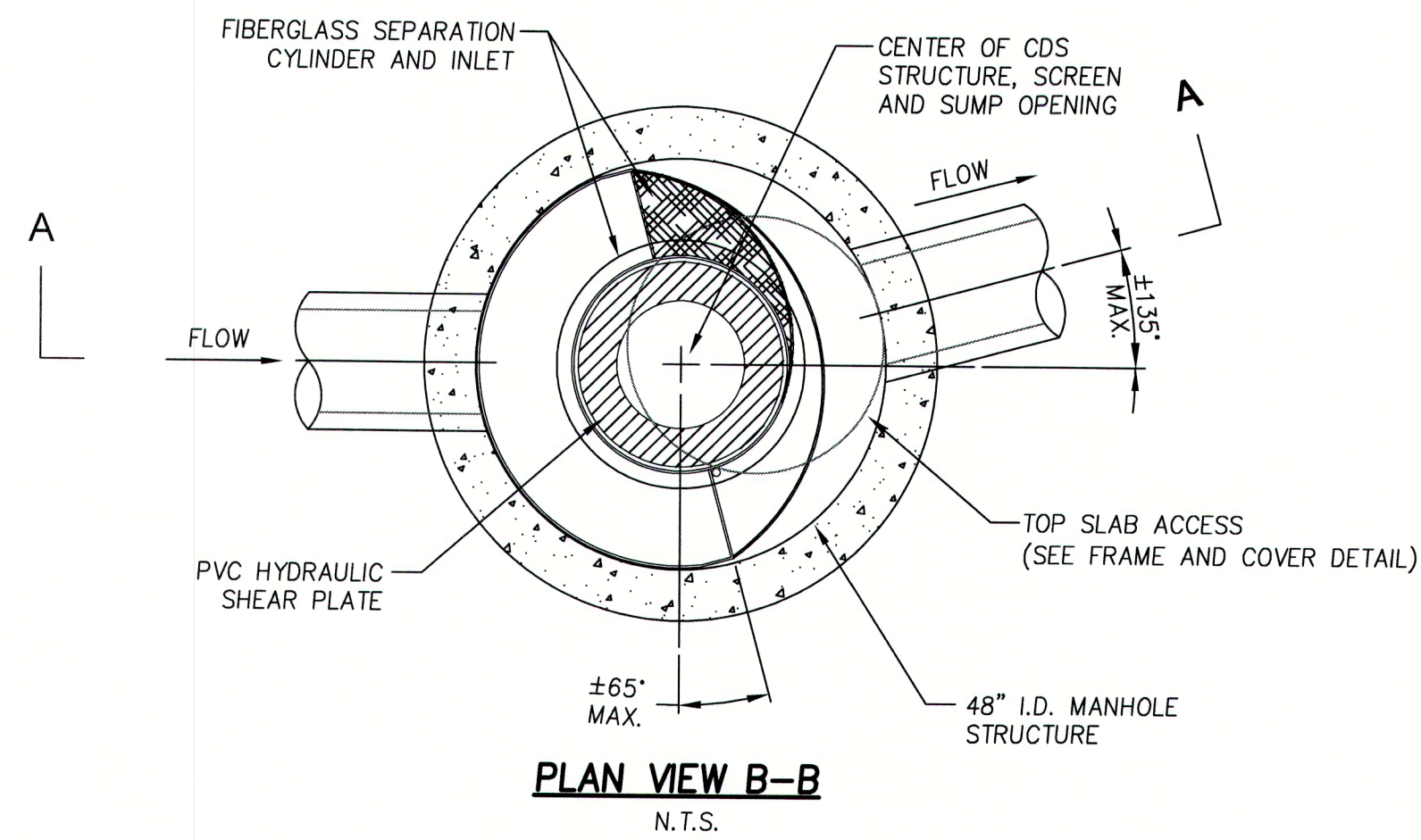
GENERAL NOTES FOR
CONSTRUCTED WETLANDS:

- WETLAND BERMS SHALL BE CONSTRUCTED OF FILL MATERIAL FREE OF ROOTS, STUMPS, WOOD, RUBBISH, STONES GREATER THAN 6", OR OTHER OBJECTIONABLE MATERIALS. FILL MATERIAL FOR THE CENTER OF THE BERM SHALL CONFORM TO UNIFIED SOIL CLASSIFICATION GC, SC, CH, OR CL AND HAVE AT LEAST 30% PASSING THE #200 SIEVE. MATERIALS USED IN THE OUTER SHELL OF THE BERMS SHALL BE CAPABLE OF SUPPORTING THE VEGETATION SPECIFIED ON THE PLANS.
- FILL MATERIALS SHALL BE PLACED IN MAXIMUM 8-INCH LIFTS AND COMPACTED WITH A MINIMUM REQUIRED DENSITY OF NOT LESS THAN 95% OF MAXIMUM DRY DENSITY.
- PRIOR TO FILL MATERIAL INSTALLATION, ALL TOPSOIL, SUBSOIL, AND UNSUITABLE MATERIAL (i.e. LEDGE) SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL.
- EROSION CONTROL MATTING SHALL BE INSTALLED ON ALL OUTSIDE SLOPES OF STORMWATER BASINS. MATTING SHALL BE A WOVEN JUTE MESH MANUFACTURED BY MACCAFERRI COMPANY, OR APPROVED EQUAL.
- ALL PIPING WITHIN CONSTRUCTED WETLAND BERMS SHALL INCLUDE ANTI-SEEPAGE COLLARS.



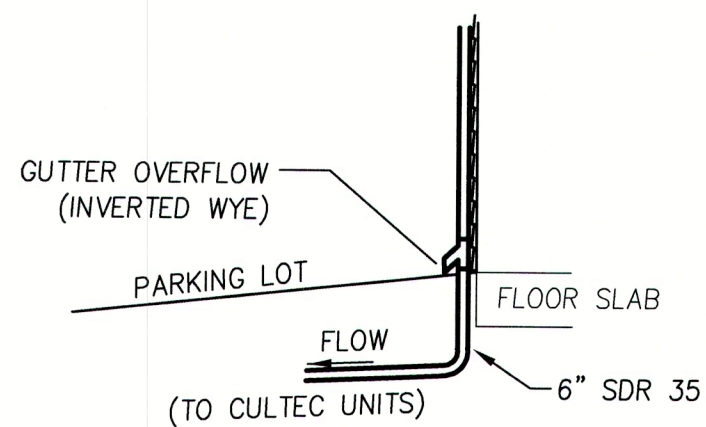
CONSTRUCTED WETLAND
BERM DETAIL
N.T.S.

CONSTRUCTED WETLAND PLANT LIST					
SYMBOL	COMMON NAME	LATIN NAME	HEIGHT	NUMBER	ZONE
1	SWEET PEPPERBUSH	CLETHRA ALNIFOLIA	3-4'	2	HIGH MARSH/SLOPE
2	NORTHERN ARROWWOOD	VIBURNUM DENTATUM	3-4'	2	HIGH MARSH/LOWER SLOPE
3	WINTERBERRY HOLLY	ILEX VERTICILLATA	3-4'	2 (INCL. 1 MALE)	HIGH MARSH
4	HIGHBUSH BLUEBERRY	VACCINIUM CORYMBOSUM	3-4'	2	HIGH MARSH/LOWER SLOPE
5	RED-OSIER DOGWOOD	CORNUS SERICEA	3-4'	2	HIGH MARSH/LOWER SLOPE
6	BLUE FLAG IRIS	IRIS VERSICOLOR	2" PLUGS	10	HI MARSH/LO MARSH BORDER
7	CARDINAL FLOWER	LOBELIA CARDINALIS	2" PLUGS	10	EDGE HI MARSH/LO MARSH INTO HIGH MARSH
8	SOFT-STEM BULRUSH	SCHOENOPLECTUS TABERNAEMONTANI	2" PLUGS	10	LO SLOPE/MICROPOOL EDGE
9	GREEN BULRUSH	SCIRPUS ATROVIRENS	2" PLUGS	10	MID/LOWER MICROPOOL SLOPE
10	CHAIRMAKER'S BULRUSH	SCHOENOPLECTUS (SCIRPUS) AMERICANUS	2" PLUGS	10	MID/LOWER MICROPOOL SLOPE
11	SWEETFLAG	ACORUS AMERICANUS	2" PLUGS	10	MID/LOWER MICROPOOL SLOPE



CDS2015-4-C DETAIL

N.T.S.



GUTTER DOWN SPOUT DETAIL

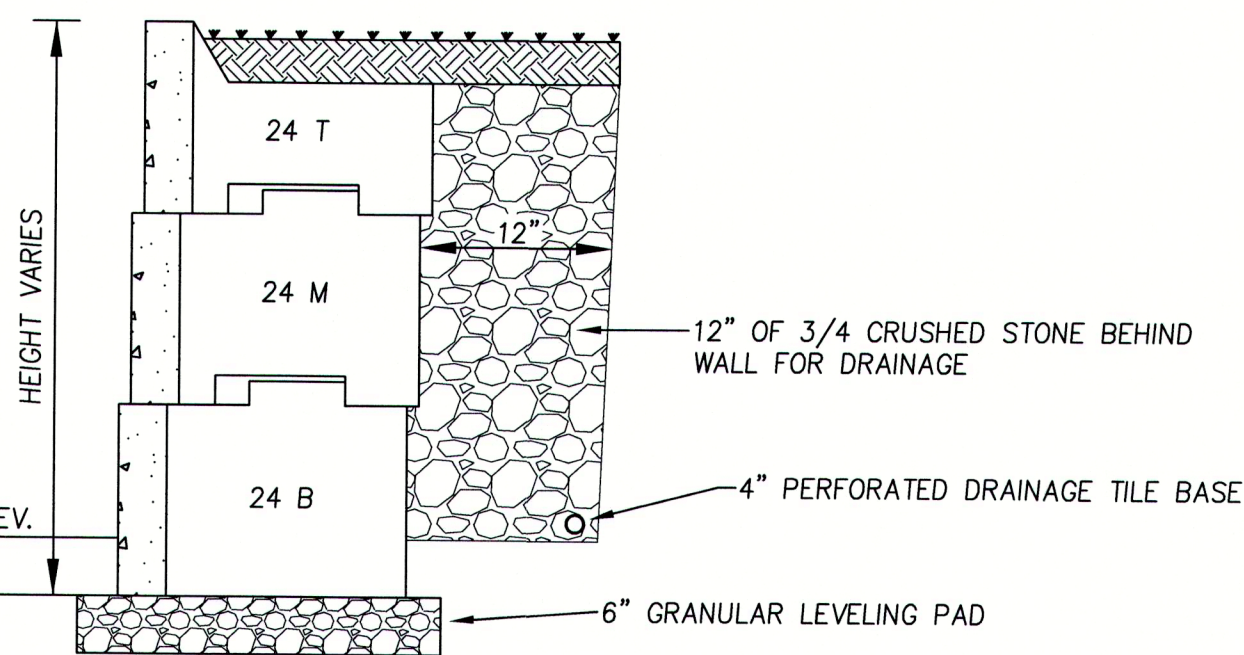
N.T.S.

GENERAL NOTES

1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH () ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH CONSTRUCTION PRODUCTS REPRESENTATIVE. www.contech-cpi.com
4. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET AASHTO HS20 AND CASTINGS SHALL MEET AASHTO M306 LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
6. PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

INSTALLATION NOTES

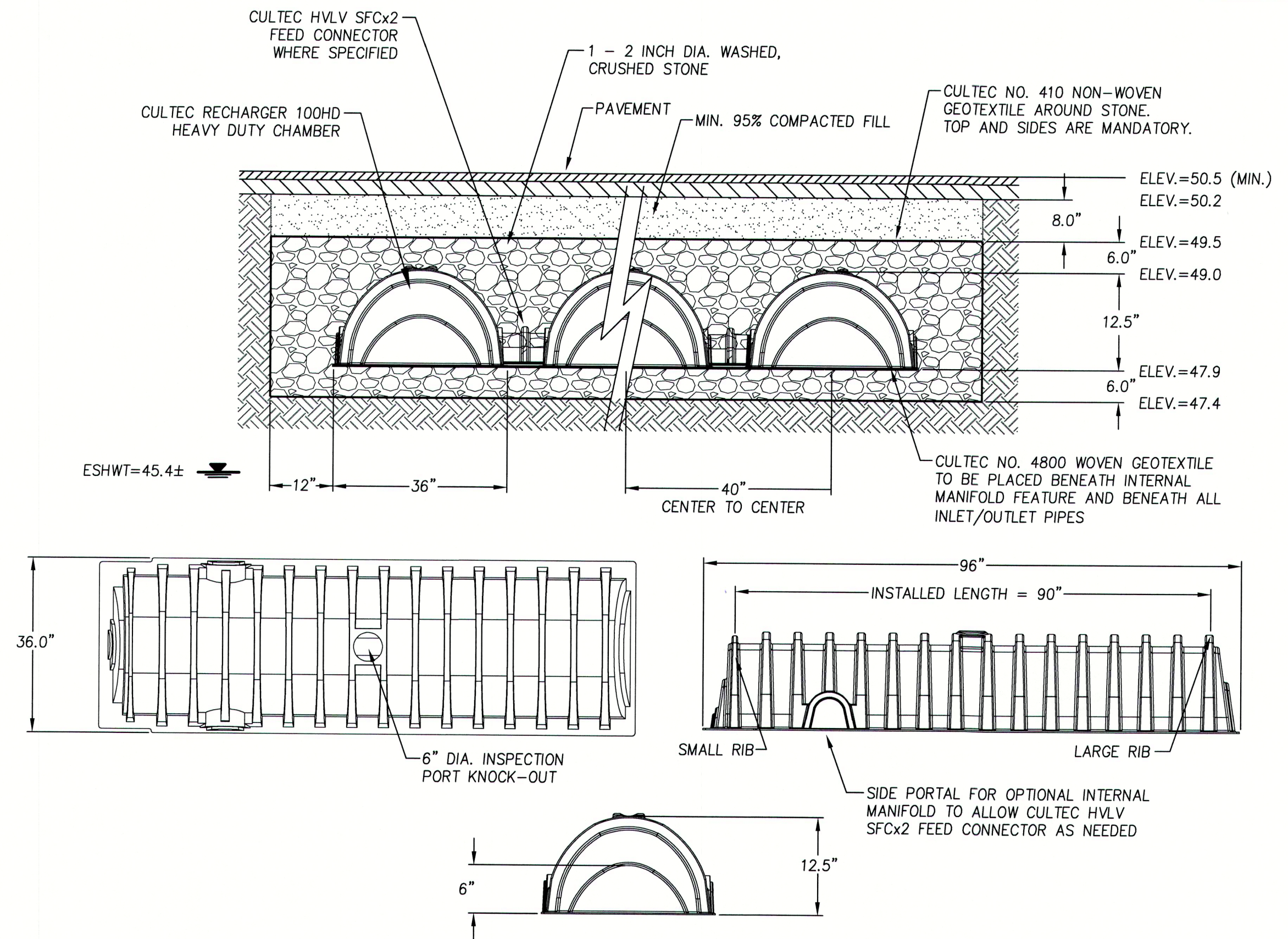
1. ANY SUB-BASE, BACKFILL, DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
2. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
3. CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
4. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
5. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.



NOTE: PRIOR TO INSTALLATION CONTRACTOR SHALL PROVIDE A STRUCTURAL DESIGN OF THE WALL WHEN GREATER THAN 4' IN HEIGHT. DESIGN SHALL BE STAMPED AND SIGNED BY A STRUCTURAL ENGINEER CERTIFIED IN MASSACHUSETTS.

CONCRETE BLOCK RETAINING WALL (BY SHEA OR APPROVED EQUAL)

N.T.S.

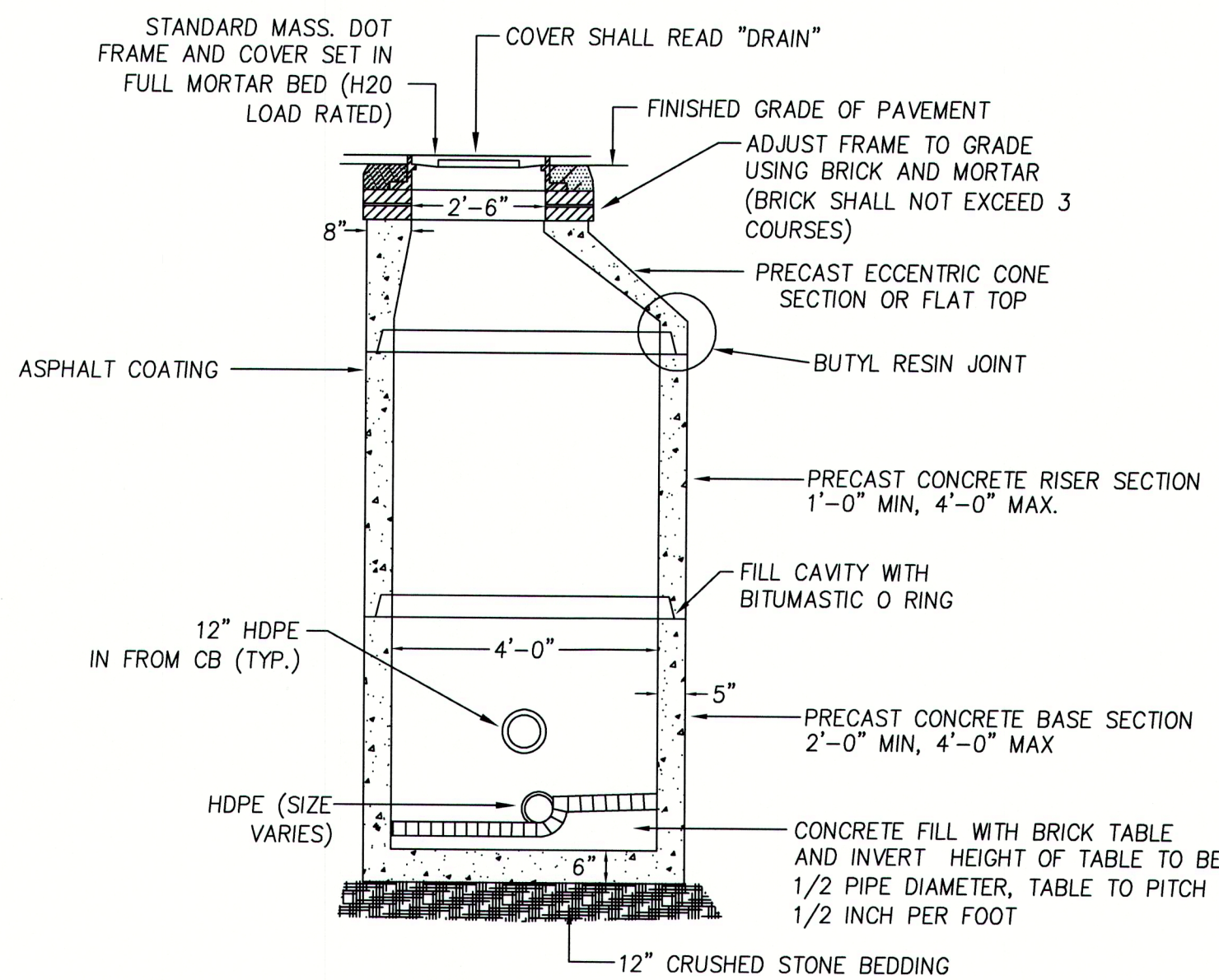


GENERAL NOTES:

- 1) RECHARGER 100HD BY CULTEC, INC. OF BROOKFIELD, CT. ALL RECHARGER 100HD CHAMBERS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. REFER TO CULTEC, INC.'S CURRENT RECOMMENDED INSTALLATION.
- 2) PRIOR TO FILL MATERIAL INSTALLATION, ALL TOPSOIL, SUBSOIL, AND UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED WITH COARSE SAND.

CULTEC RECHARGER 100HD DETAILS

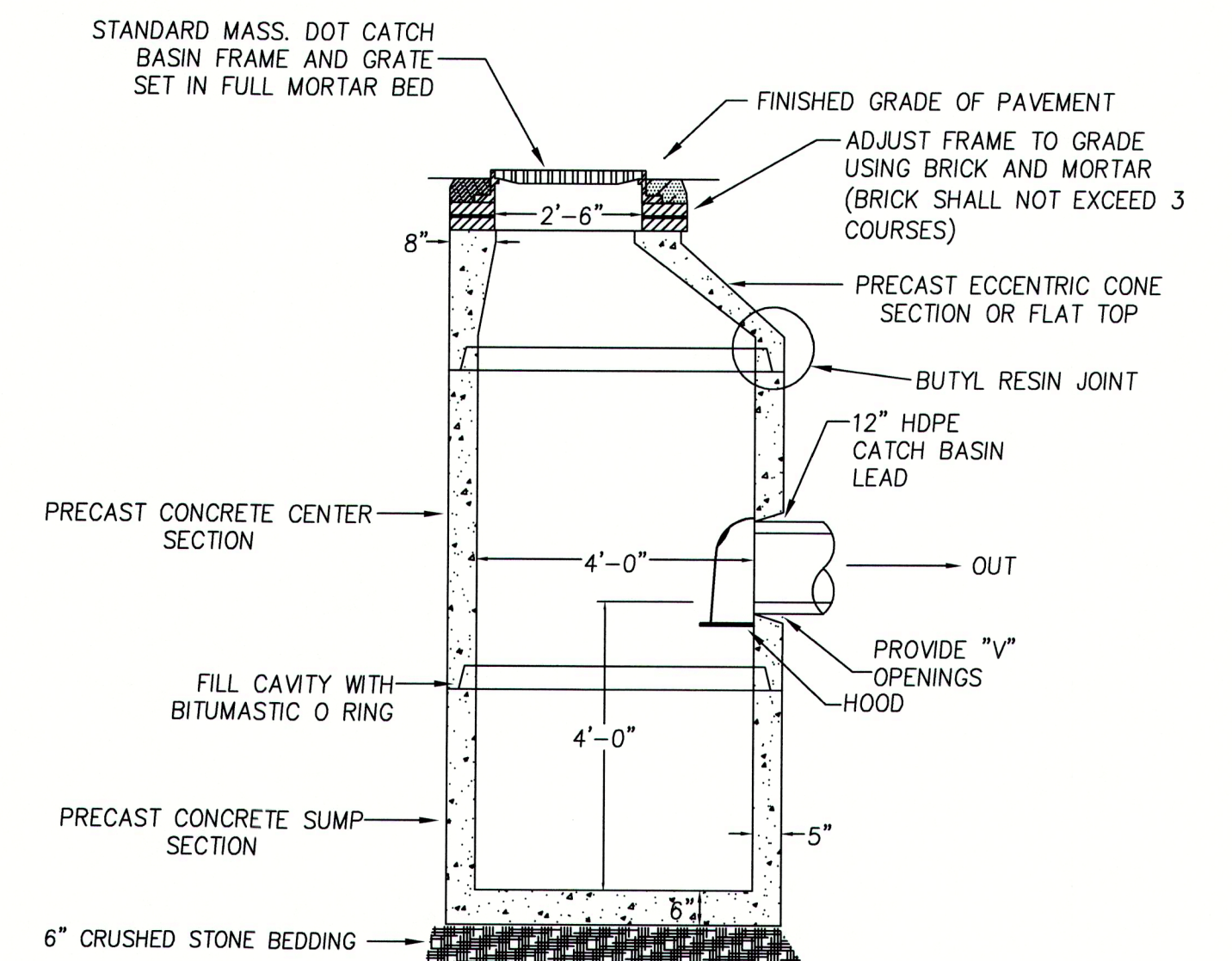
N.T.S.



NOTES: 1) DRAIN MANHOLES SHALL CONFORM TO ASTM C478 AND ASTM C185

PRECAST DRAIN MANHOLE DETAIL

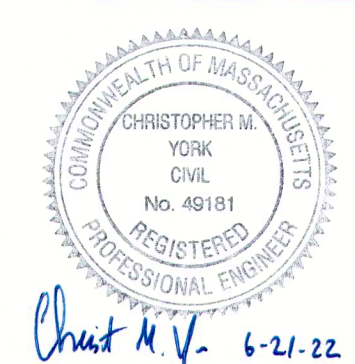
N.T.S.



- NOTES: 1) CATCH BASINS SHALL CONFORM TO ASTM C478 AND ASTM C185
2) FLAT TOP STRUCTURES SHALL BE PRECAST SECTIONS AND HAVE A 28 DAY COMPRESSIVE STRENGTH OF 5000 PSI REINFORCED FOR AASHTO H-20 LOADING.
3) CONICAL SECTIONS MAY BE SUBSTITUTED FOR FLAT-TOP STRUCTURES IN AREAS WHERE MORE THAN 4 FEET OF COVER IS PROVIDED FOR DRAIN PIPE.

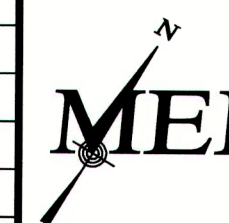
PRECAST DEEP SUMP CATCH BASIN DETAIL

N.T.S.



PREPARED FOR
F & D REALTY LLC
1 MELVIN STREET, SUITE D
WAKEFIELD, MA 01880

NO.	DATE	DESCRIPTION	C.M.Y.	BY
1	6/21/22	ADDRESS TOWN COMMENTS		



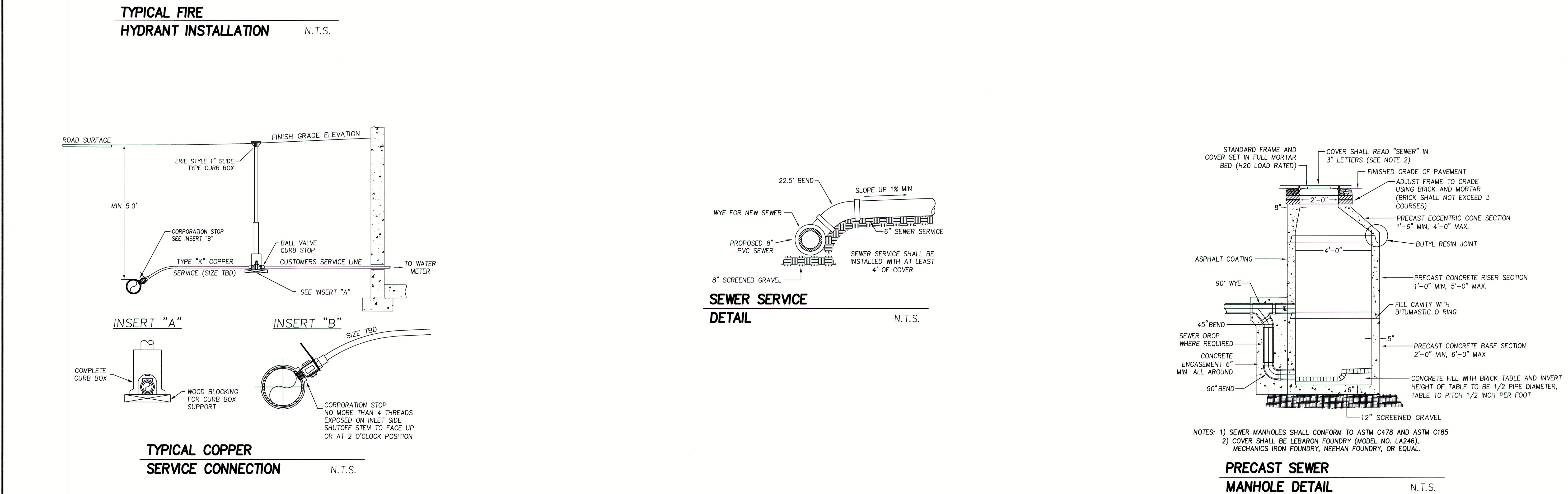
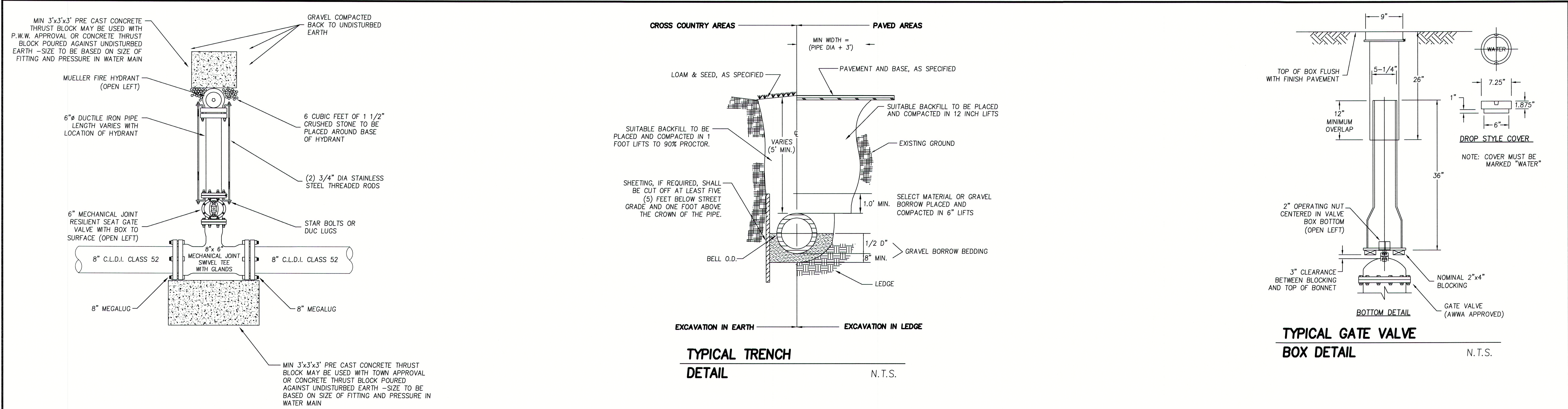
MILLENNIUM ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

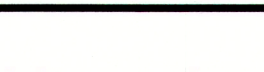
SCALE: AS NOTED	DESIG. BY: C.M.Y.	PROJECT: M183284
DATE: JUN. 1, 2022	CHKD. BY: E.W.B.	

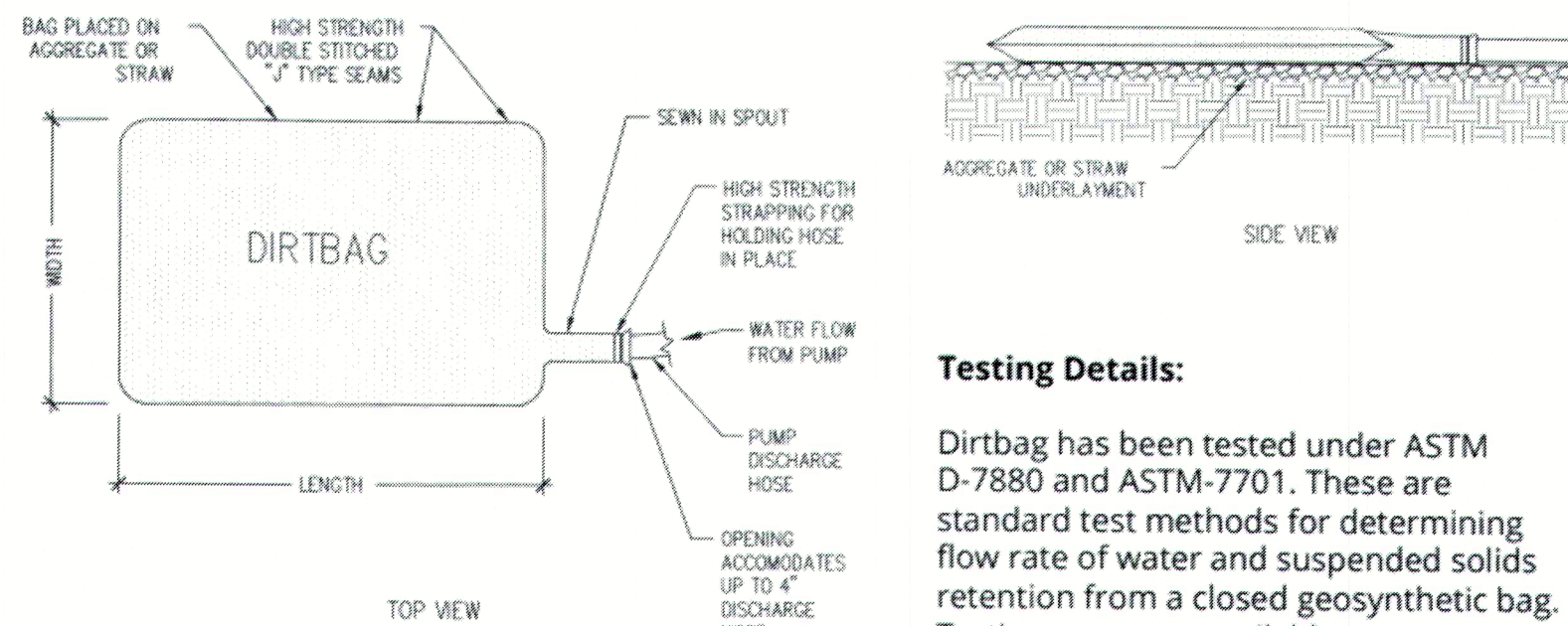
PLAN OF LAND
IN
SALISBURY, MA
SHOWING
PROPOSED SITE IMPROVEMENTS
AT
163 ELM STREET

**DRAINAGE
DETAILS**

SHEET: C-14



		 <i>Chris M. York</i> 6-21-22	PREPARED FOR F & D REALTY LLC 1 MELVIN STREET, SUITE D WAKEFIELD, MA 01880									 MILLENNIUM ENGINEERING, INC. ENGINEERING AND LAND SURVEYING 62 ELM ST. SALISBURY, MA 01952 (978) 463-8980 13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528	PLAN OF LAND IN SALISBURY, MA SHOWING PROPOSED SITE IMPROVEMENTS AT 163 ELM STREET			UTILITY DETAILS
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--



1. ALL MATERIAL SHALL MEET SPECIFICATIONS BY FILTREXX OR APPROVED EQUAL.
2. SILT SOCK SHALL BE INSPECTED WITHIN 24 HOURS AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.
3. THE CONTRACTOR SHALL REMOVE SEDIMENT AT THE BASE OF THE UPSLOPE SIDE OF THE SILT SOCK WHEN ACCUMULATION HAS REACHED 1/2 OF THE EFFECTIVE HEIGHT OF THE SILT SOCK.
4. SILT SOCK SHALL BE MAINTAINED UNTIL DISTURBED AREA ABOVE THE DEVICE HAS BEEN PERMANENTLY STABILIZED AND CONSTRUCTION ACTIVITY HAS BEEN COMPLETED.
5. SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE SOCK HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETED.

N.T.S.

1. "DIRTBAG" DEWATERING BAG BY ACF ENVIRONMENTAL OR APPROVED EQUAL.

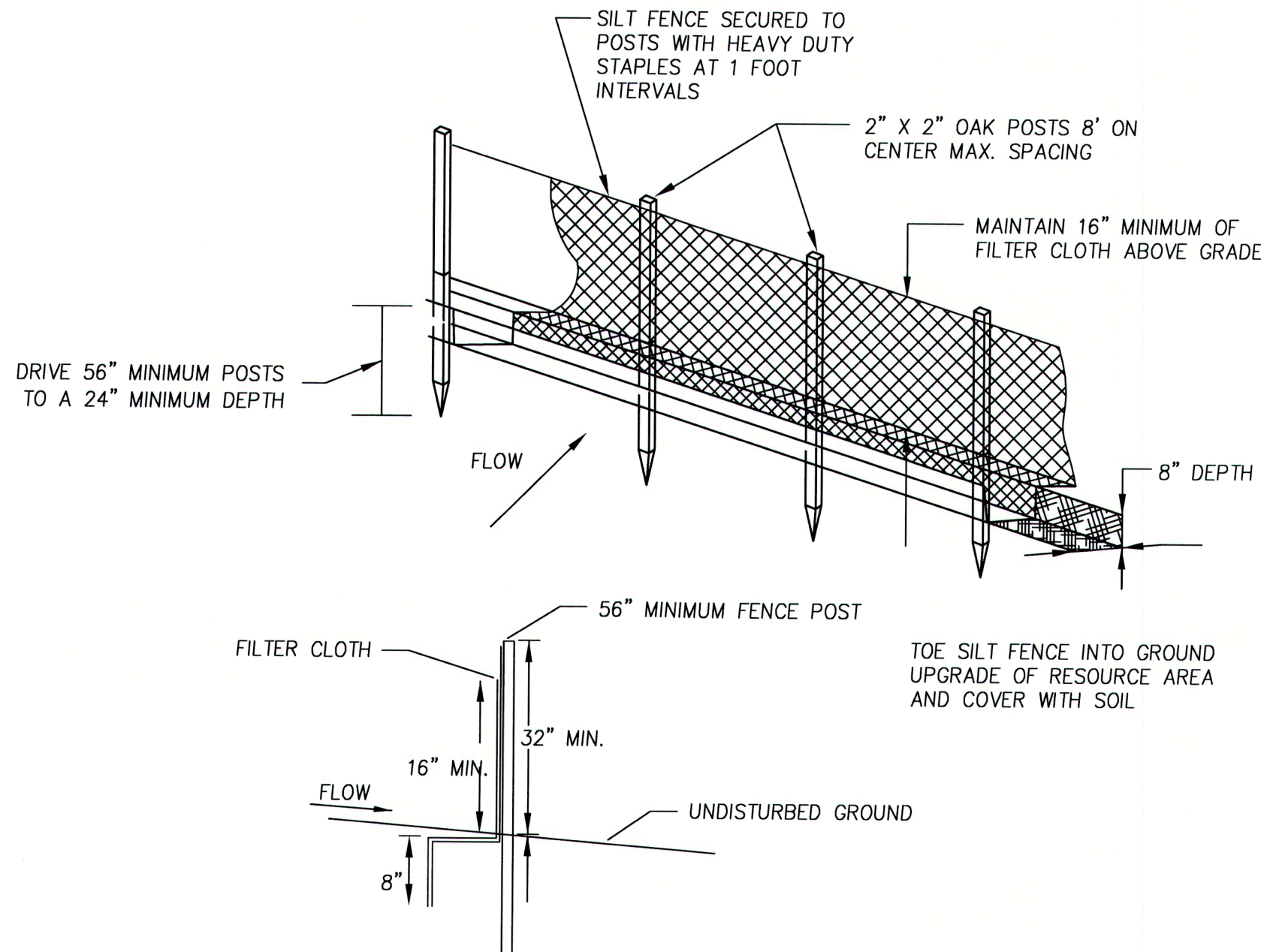
N.T.S.

Dirtbag has been tested under ASTM D-7880 and ASTM-7701. These are standard test methods for determining flow rate of water and suspended solids retention from a closed geosynthetic bag. Testing summary available upon request.



1. TO INSTALL SILTSACK IN THE CATCH BASIN, REMOVE THE GRATE AND PLACE THE SACK IN THE OPENING. HOLD APPROXIMATELY SIX INCHES OF THE SACK OUTSIDE THE FRAME. THIS IS THE AREA OF THE LIFTING STRAPS. REPLACE THE GRATE TO HOLD THE SACK IN PLACE.
2. WHEN THE RESTRAINT CORD IS NO LONGER VISIBLE, SILTSACK IS FULL AND SHOULD BE EMPTIED.
3. TO REMOVE SILTSACK FROM THE CATCH BASIN, TAKE TWO (2) 1/2" DIAMETER REBAR AND PLACE THROUGH THE LIFTING LOOPS ON EACH SIDE OF THE SACK TO FACILITATE THE LIFTING.
4. TO EMPTY SILTSACK, PLACE UNIT WHERE THE CONTENTS WILL BE COLLECTED. PLACE THE REBAR THROUGH THE LIFT STRAPS (CONNECTED TO THE BOTTOM OF THE SACK) AND LIFT. THIS WILL LIFT SILTSACK FROM THE BOTTOM AND EMPTY THE CONTENTS. CLEAN OUT AND RINSE. RETURN SILTSACK TO ITS ORIGINAL LOCATION AND PLACE BACK IN THE CATCH BASIN.
5. SILTSACK IS REUSABLE. ONCE THE CONSTRUCTION CYCLE IS COMPLETE, REMOVE SILTSACK FROM THE BASIN AND CLEAN. SILTSACK SHOULD BE STORED OUT OF SUNLIGHT UNTIL NEXT USE.

N.T.S.



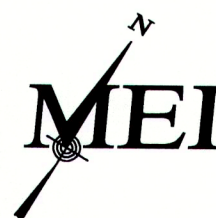
1. STONE SHALL BE 4-6" CRUSHED STONE OR RECLAIMED STONE.
2. THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50'.
3. THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 12".
4. GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE.
5. ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.
6. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP-DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED PROMPTLY.
7. WHEELS SHALL BE CLEANED TO REMOVE MUD PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

N.T.S.

N.T.S.

F & D REALTY LLC
MELVIN STREET, SUITE
WAKEFIELD, MA 01880

1	6/21/22	ADDRESS TOWN COMMENTS	C.M.Y.
NO.	DATE	DESCRIPTION	BY

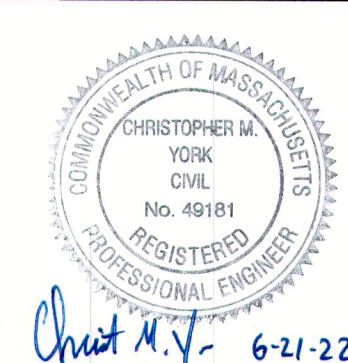
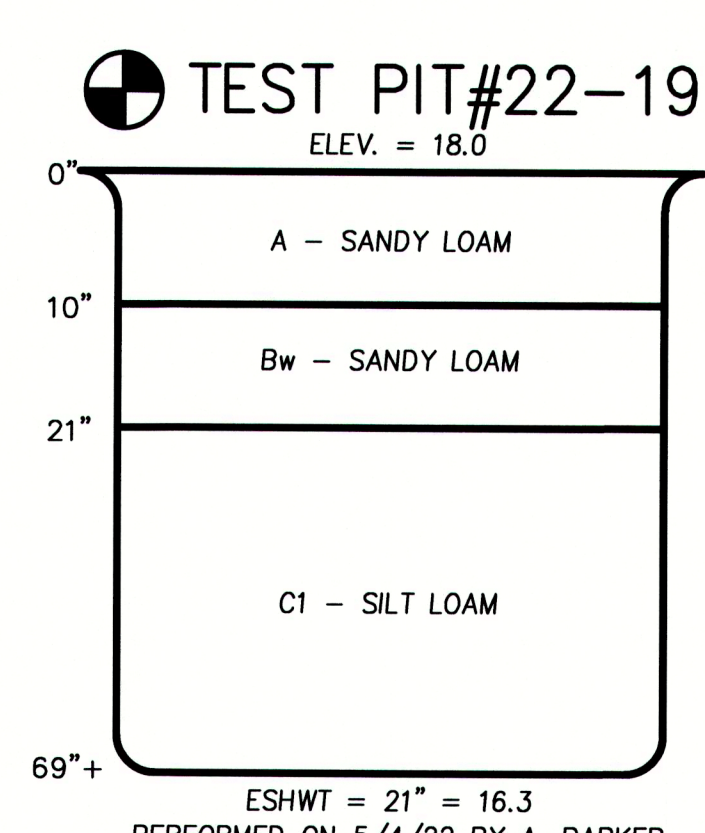
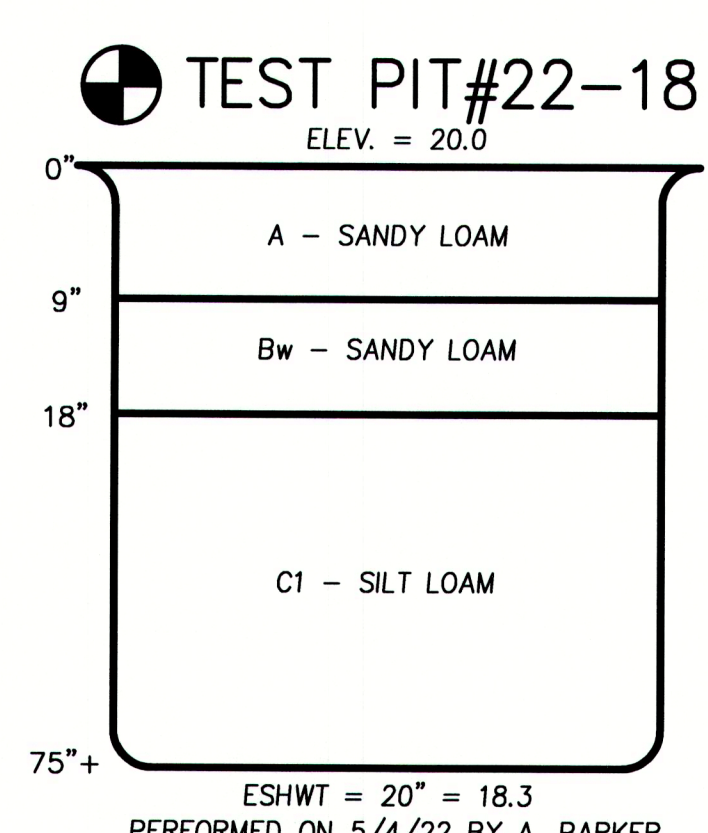
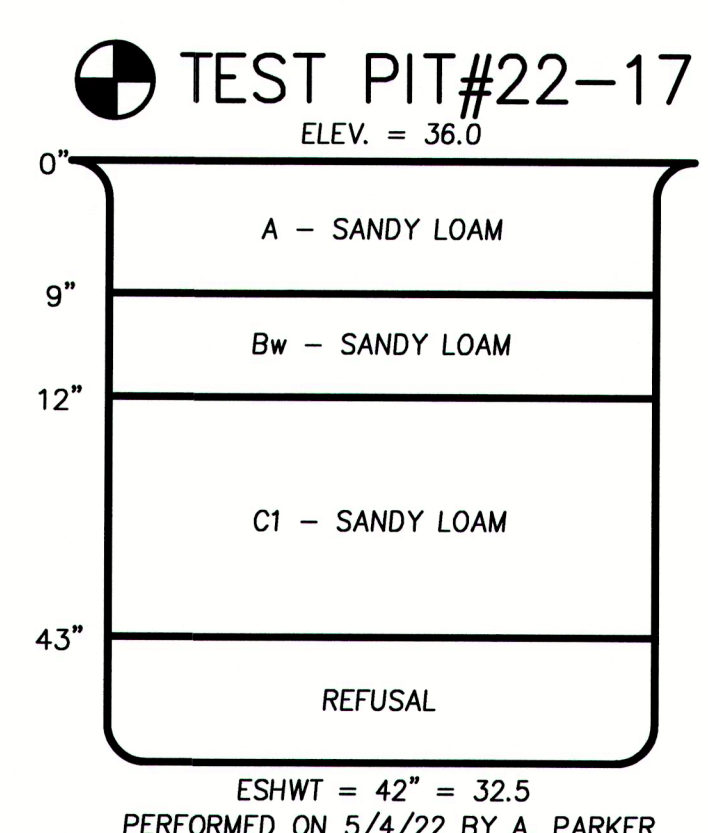
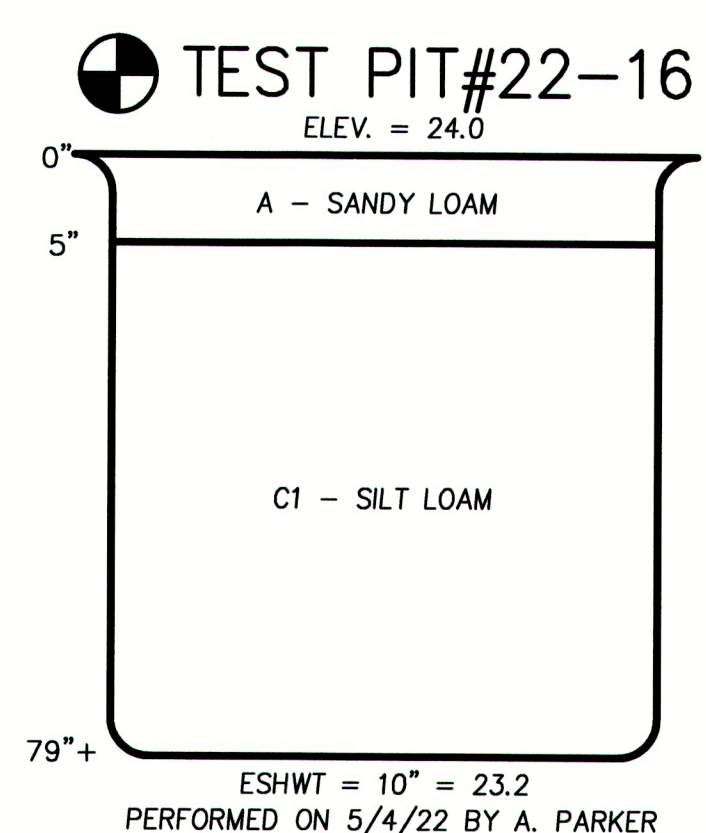
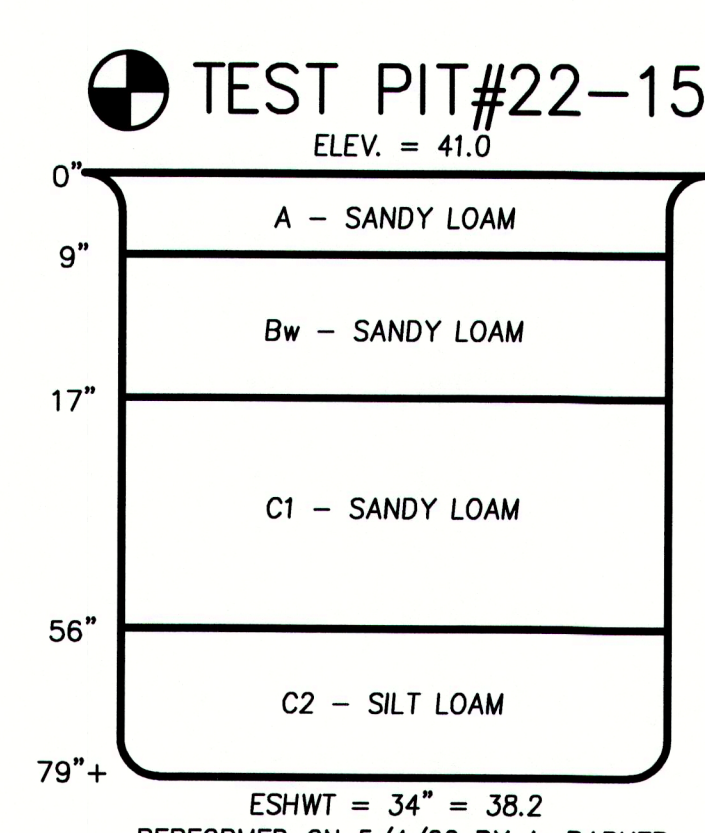
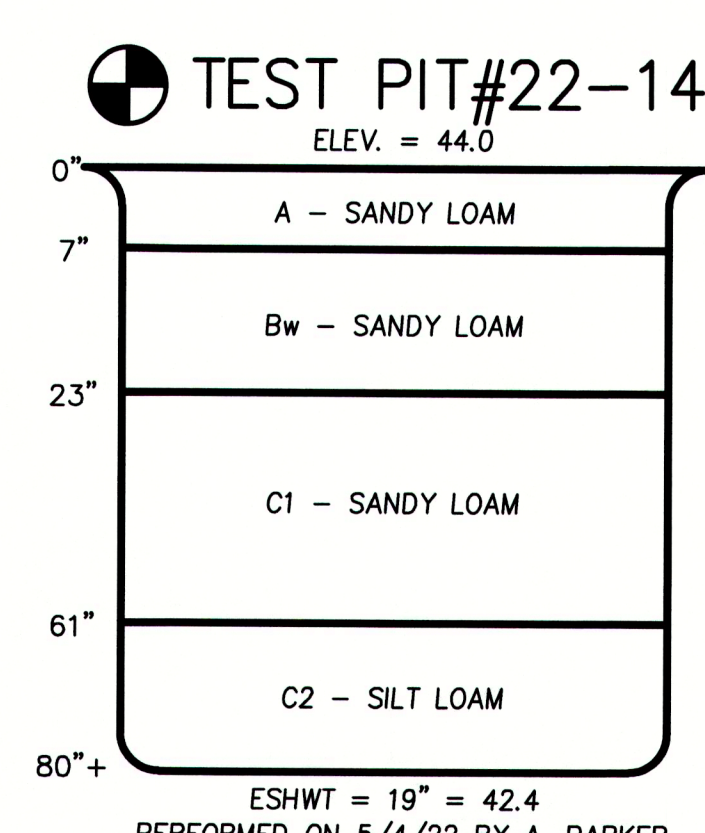
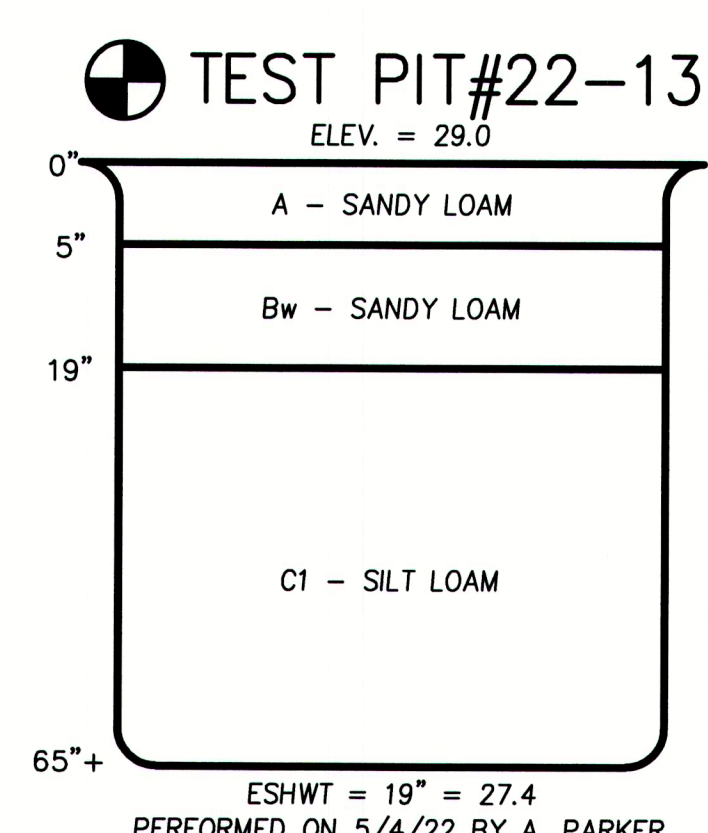
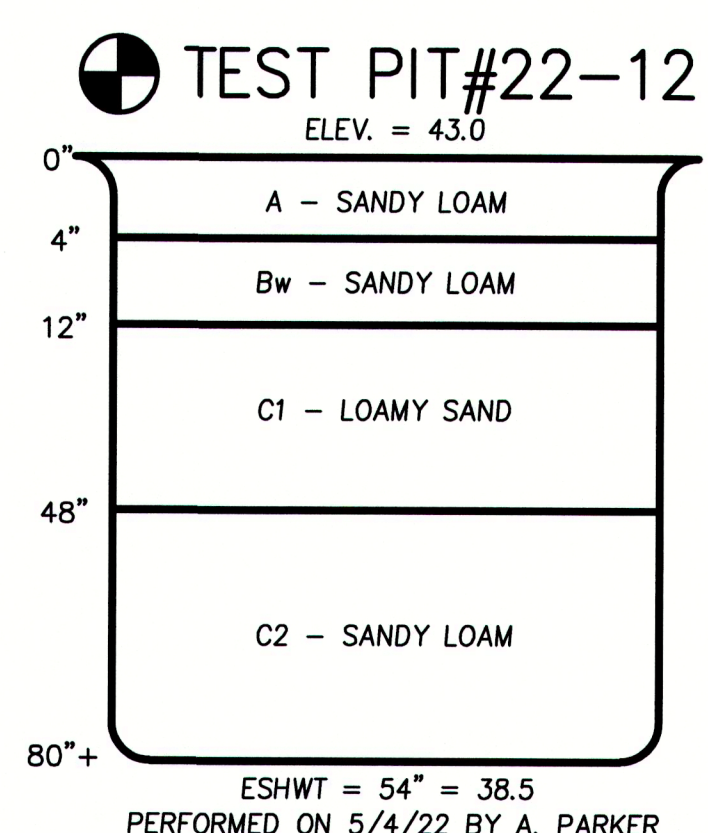
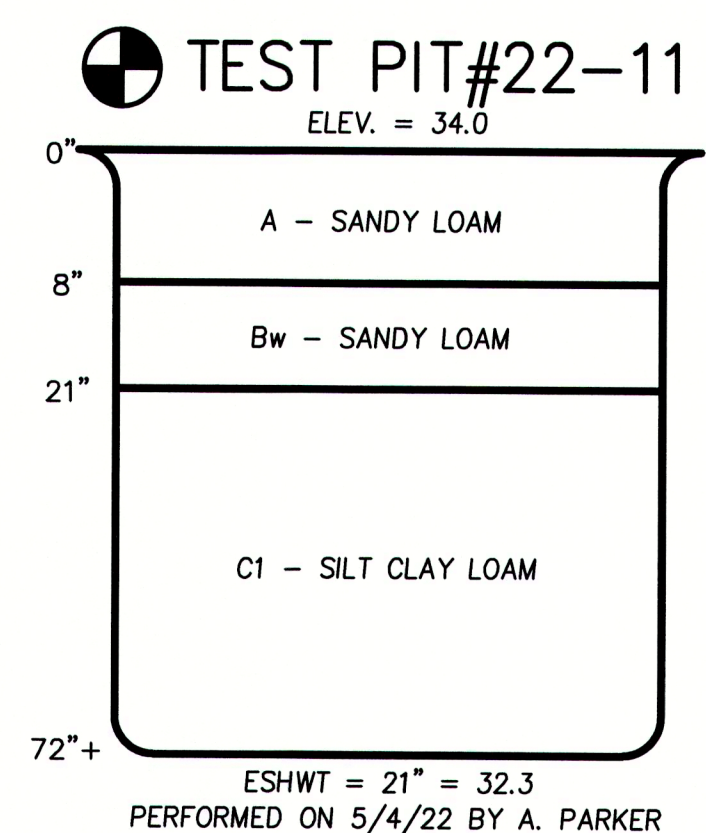
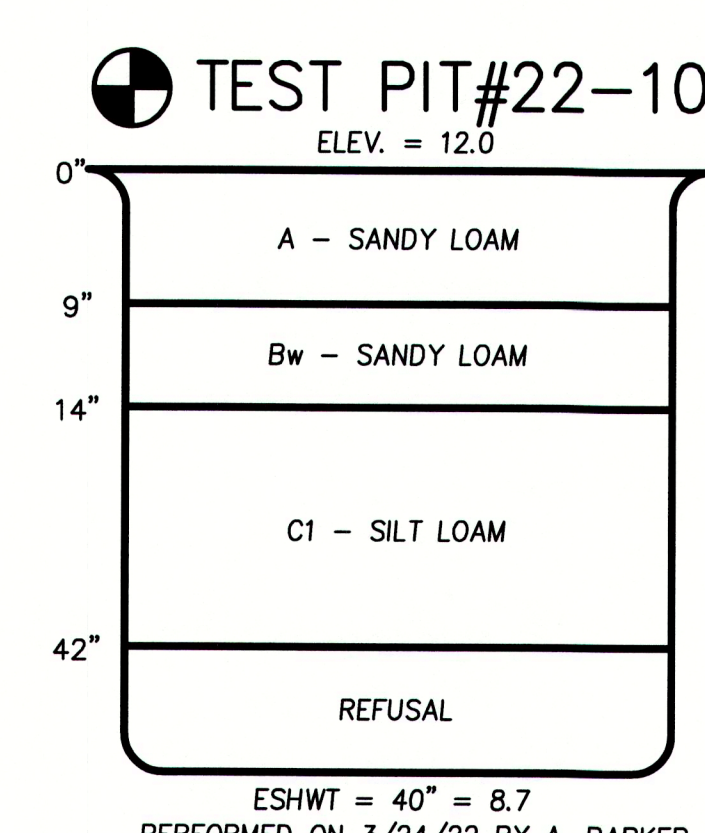
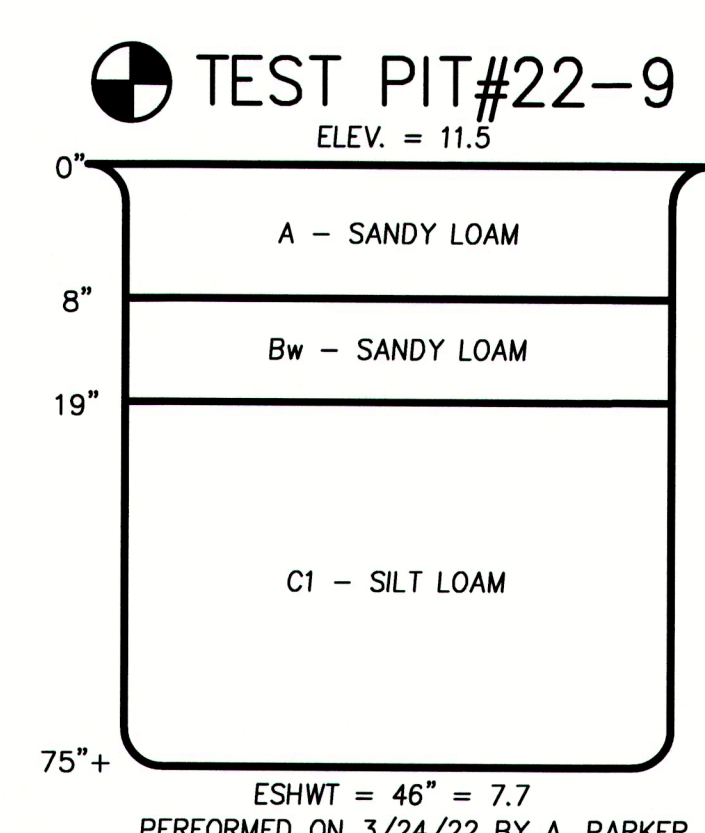
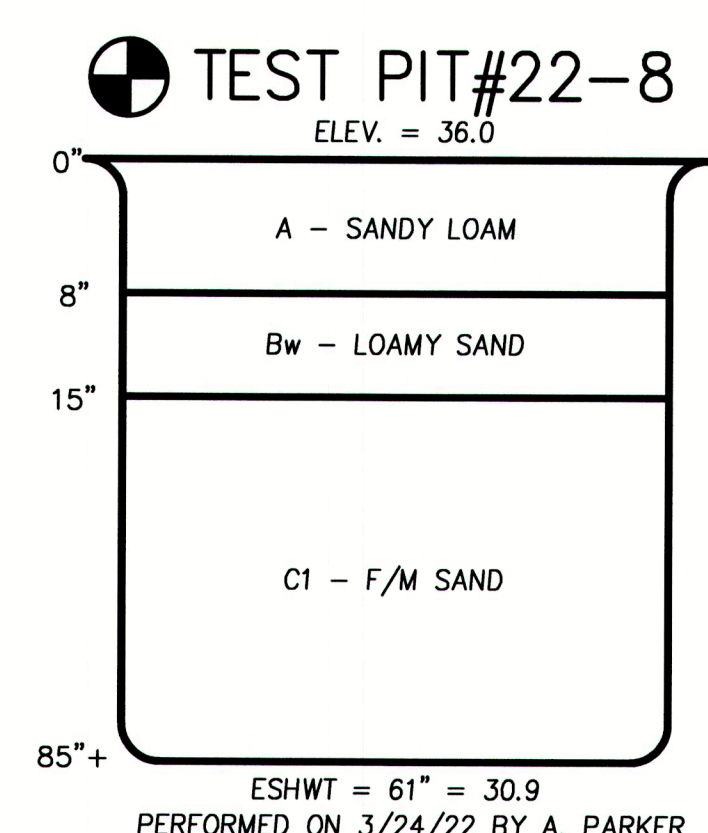
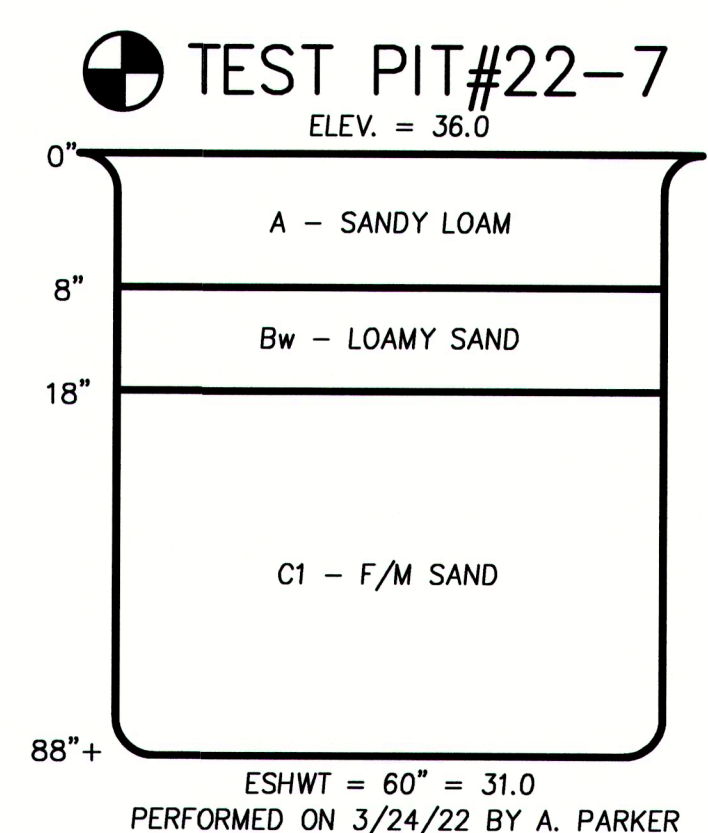
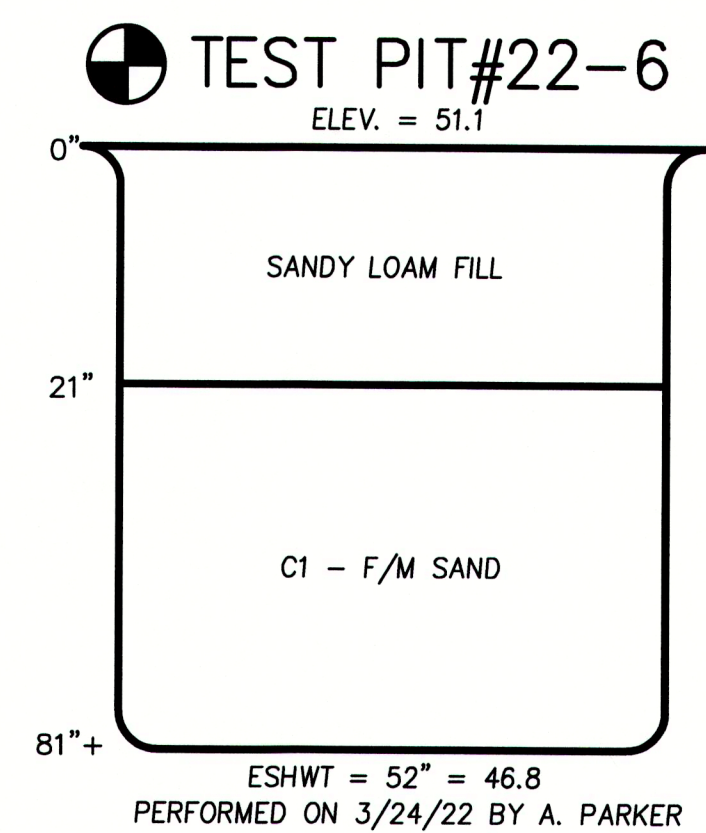
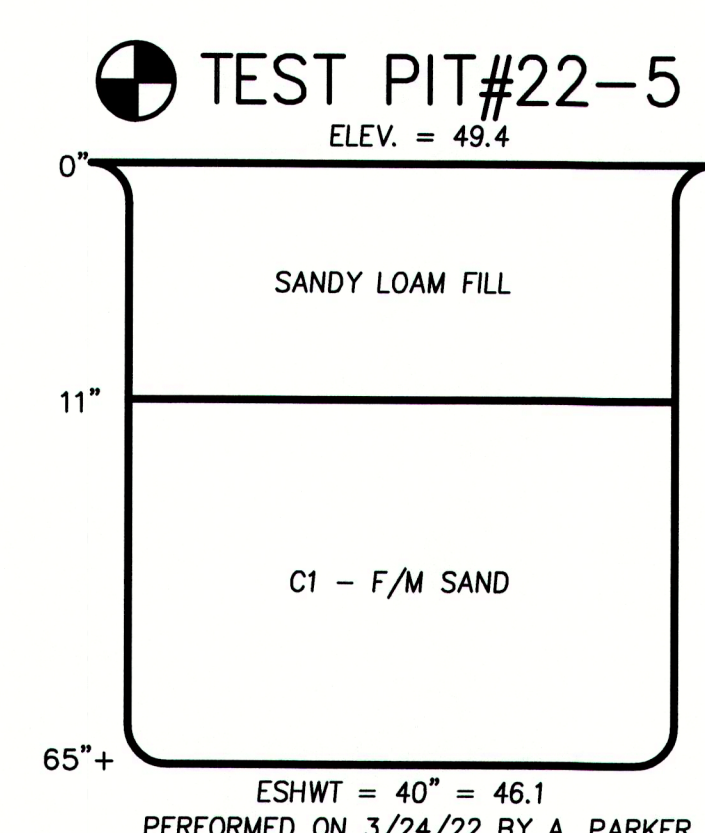
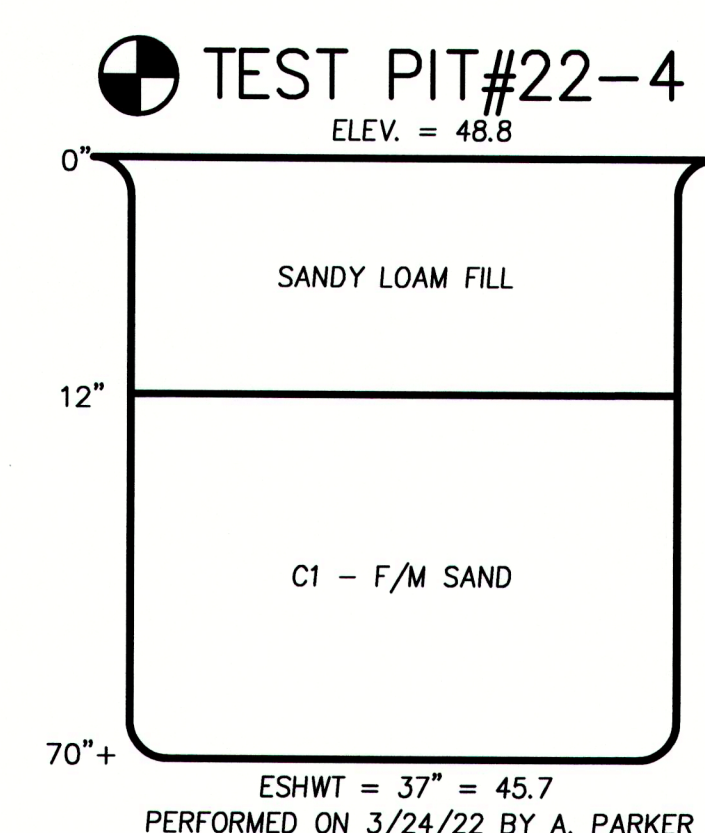
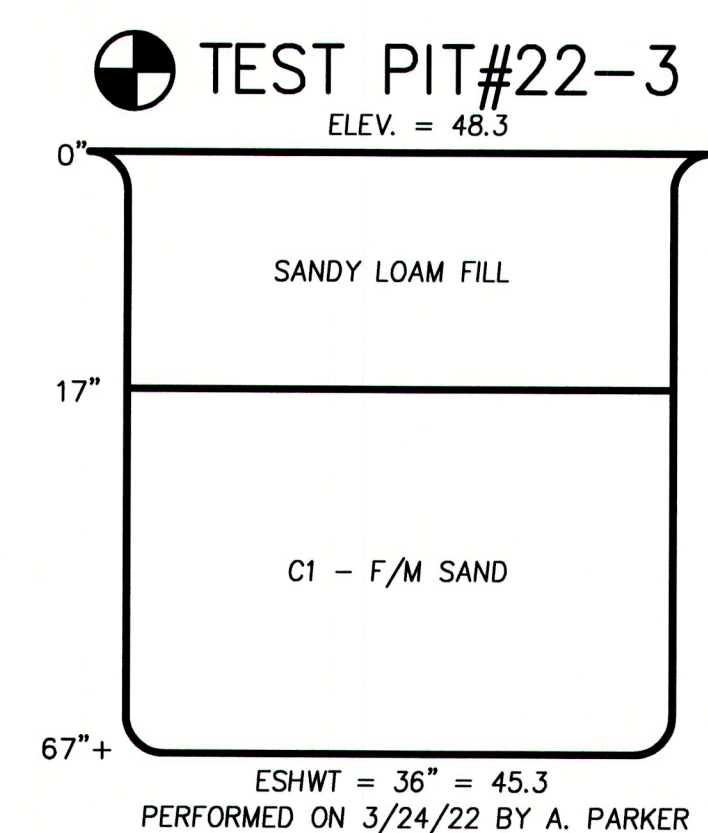
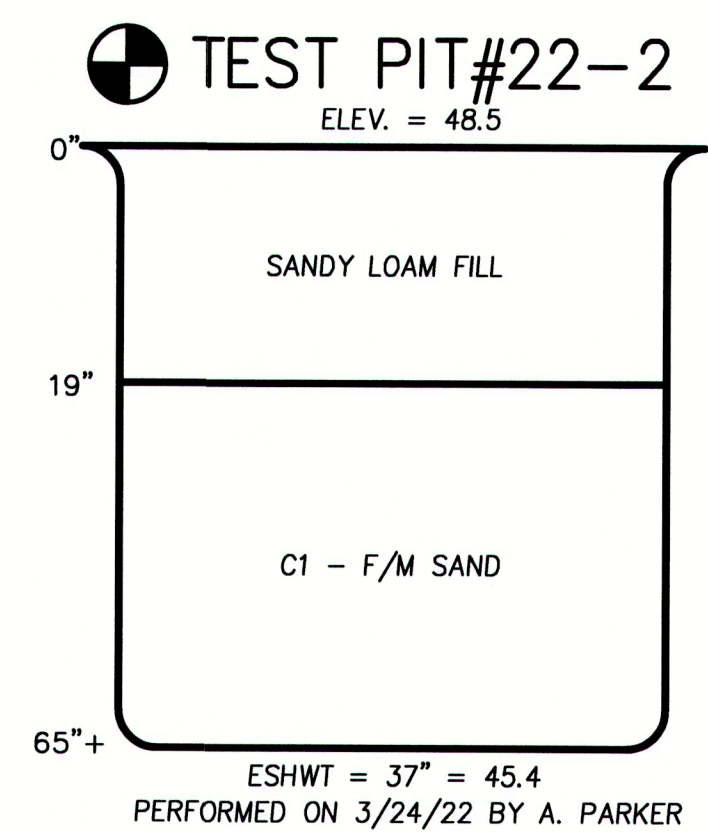
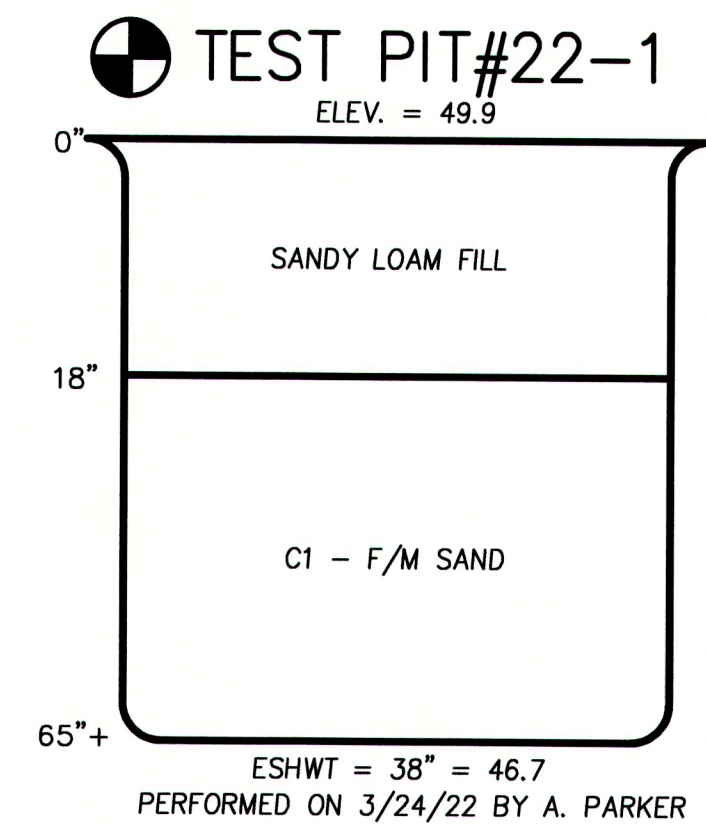


MILLENNIUM ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

SCALE: AS NOTED	DESG. BY: C.M.Y.	PROJECT: M183284
DATE: JUN. 1, 2022	CHKD. BY: E.W.B.	

SHOWING
PROPOSED SITE IMPROVEMENTS
AT
163 ELM STREET

SHEET: C-16



PREPARED FOR
F & D REALTY LLC
1 MELVIN STREET, SUITE D
WAKEFIELD, MA 01880

MILLENNIUM ENGINEERING, INC.
ENGINEERING AND LAND SURVEYING
62 ELM ST. SALISBURY, MA 01952 (978) 463-8980
13 HAMPTON RD. EXETER, NH 03833 (603) 778-0528

PLAN OF LAND
IN
SALISBURY, MA
SHOWING
PROPOSED SITE IMPROVEMENTS
AT
163 ELM STREET

TEST
PITS

SHEET: C-17

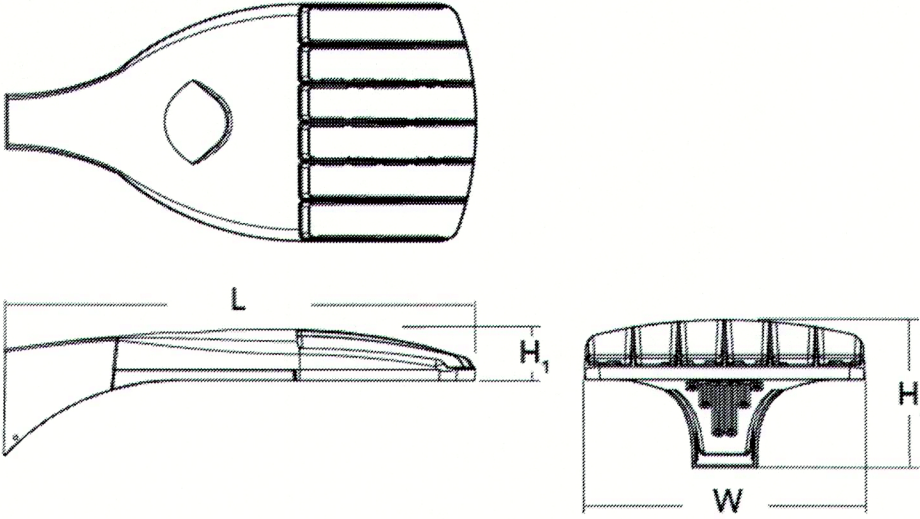


D-Series Size 0
LED Area Luminaire



Specifications

EPA: 0.95 ft²
(.09 m²)
Length: 26"
(66.0 cm)
Width: 13"
(33.0 cm)
Height: 3"
(7.62 cm)
Height: 7"
(17.8 cm)
Weight (max): 16 lbs
(7.25 kg)

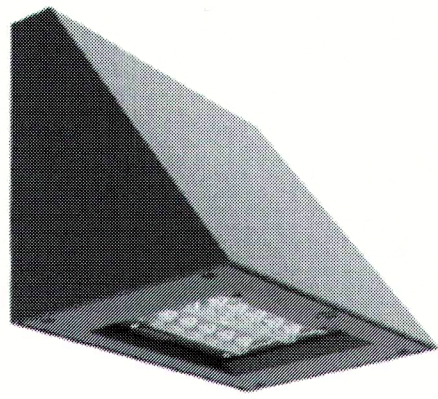


Catalog Number	
Notes	
Type	

Hit the Tab key or mouse over the page to see all interactive elements.

Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 400W metal halide with typical energy savings of 70% and expected service life of over 100,000 hours.



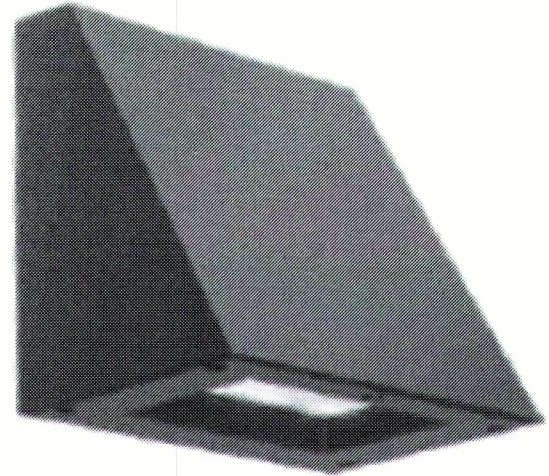
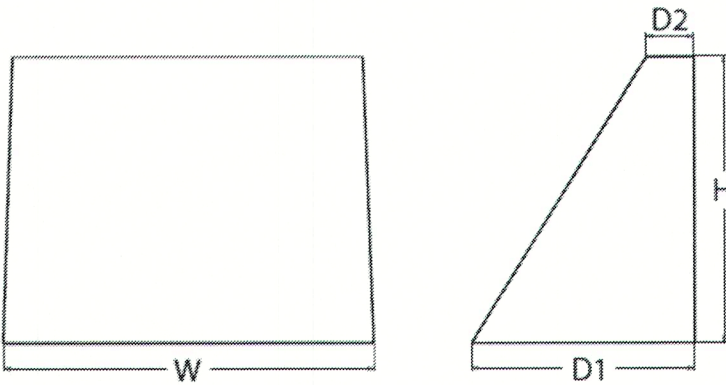
WDGE2 LED
Architectural Wall Sconce
Precision Refractive Optic



Buy American

Specifications

Depth (D1): 7"
Depth (D2): 1.5"
Height: 9"
Width: 11.5"
Weight: 13.5 lbs
(without options)

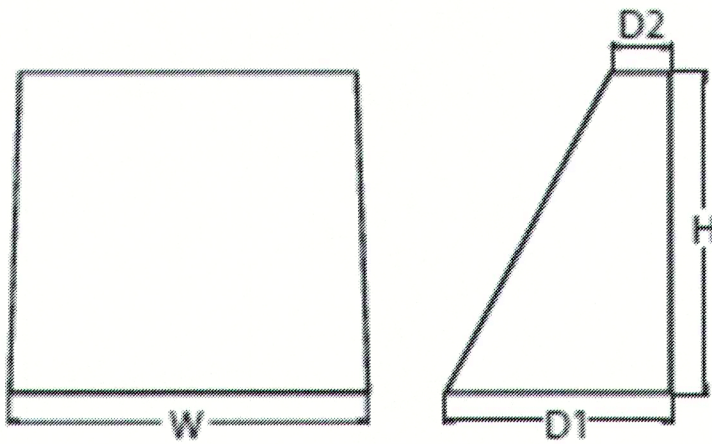


WDGE1 LED
Architectural Wall Sconce



Specifications

Depth (D1): 5.5"
Depth (D2): 1.5"
Height: 8"
Width: 9"
Weight: 9 lbs
(without options)



Catalog Number	
Notes	
Type	

Hit the Tab key or mouse over the page to see all interactive elements.

Introduction

The WDGE LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing true site-wide solution.

WDGE1 delivers up to 2,000 lumens with a soft, non-pixelated light source, creating a visually comfortable environment. The compact size of WDGE1, with its integrated emergency battery backup option, makes it an ideal over-the-door wall-mounted lighting solution.

Schedule										
Symbol	Label	QTY	Manufacturer	Catalog Number	Description	Lamp	Filename	Lumens per Lamp	LLF	Wattage
	S1	7	Lithonia Lighting	DSX0 LED P2 30K T1S MVOLT SPA DDBXD with SSS 16 4C DM19AS DDBXD	DSX0 LED Area Fixture, mounted at 18ft (16ft pole on 2ft base)	LED	DSX0_LED_P2_30K_T1S_MV_OLT.ies	5570	0.9	49
	S2	1	Lithonia Lighting	DSX0 LED P2 30K T2M MVOLT SPA DDBXD with SSS 16 4C DM19AS DDBXD	DSX0 LED Area Fixture, mounted at 18ft (16ft pole on 2ft base)	LED	DSX0_LED_P2_30K_T2M_MV_OLT.ies	5564	0.9	49
	S4	2	Lithonia Lighting	DSX0 LED P2 30K TFTM MVOLT SPA DDBXD with SSS 16 4C DM19AS DDBXD	DSX0 LED Area Fixture, mounted at 18ft (16ft pole on 2ft base)	LED	DSX0_LED_P2_30K_TFTM_M_VOLT.ies	5576	0.9	49
	W1	6	Lithonia Lighting	WDGE1 LED P2 30K 80CRI VF SRM DDBXD	WDGE1 LED Wallpack, mounted at 14ft	LED	WDGE1_LED_P2_30K_80CRI_VF.ies	1872	0.9	15.0178
	W2	7	Lithonia Lighting	WDGE2 LED P4 30K 80CRI TFTM SRM DDBXD	WDGE2 LED Wallpack, mounted at 18ft	LED	WDGE2_LED_P4_30K_80CRI_TFTM.ies	4002	0.9	46.6589
	W3	3	Lithonia Lighting	WDGE2 LED P4 30K 80CRI T3M	WDGE2 LED Wallpack, mounted at 18ft	LED	WDGE2_LED_P4_30K_80CRI_T3M.ies	4065	0.9	46.6589

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Building #1 Parking Lot	+	1.1 fc	3.7 fc	0.2 fc	18.5:1	5.5:1
Building #2 Parking Lot	+	0.9 fc	3.9 fc	0.2 fc	19.5:1	4.5:1
Driveway	+	1.4 fc	3.9 fc	0.2 fc	19.5:1	7.0:1
Outside of Driveway/Parking Lot	+	0.1 fc	2.3 fc	0.0 fc	N/A	N/A

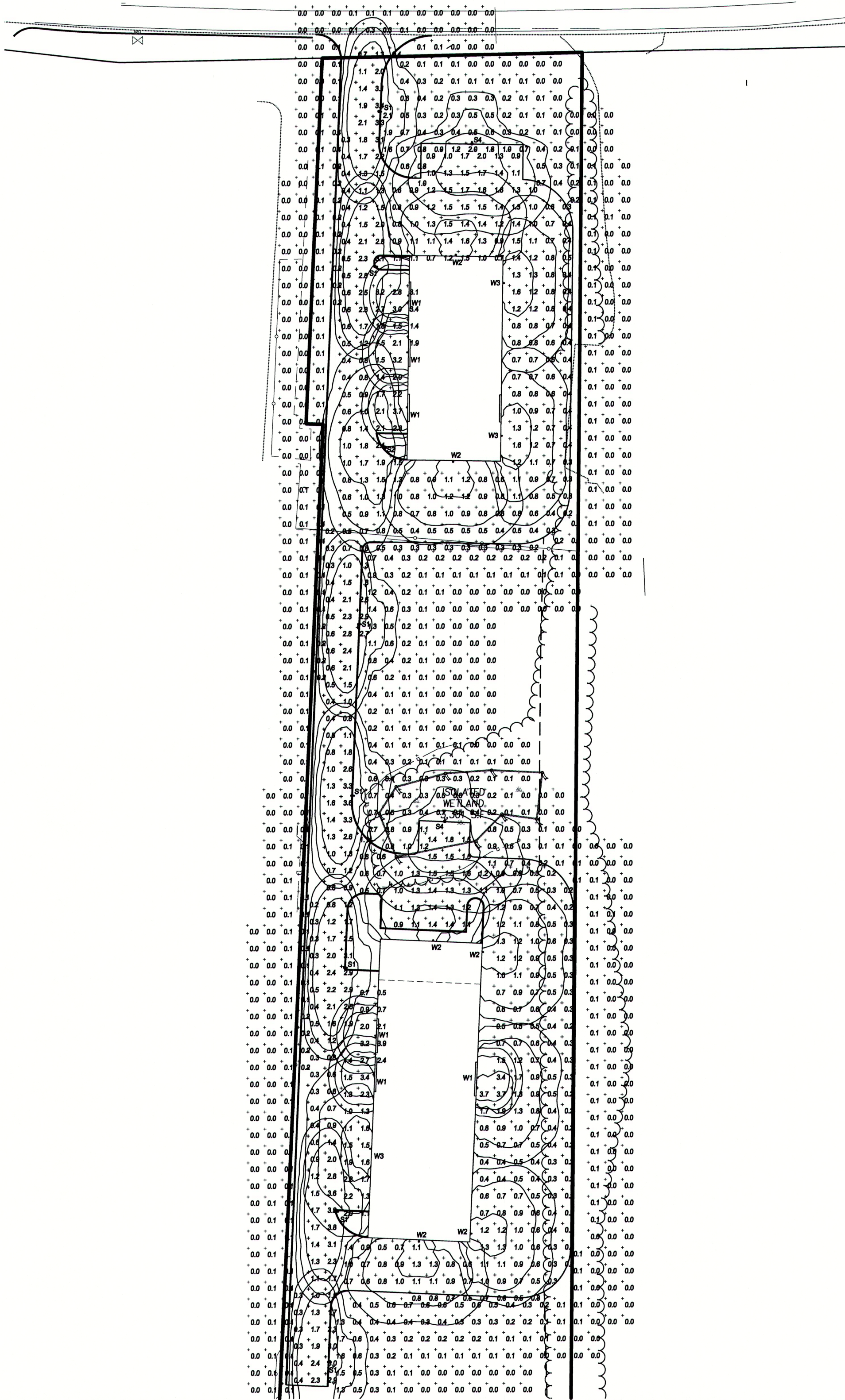
Catalog Number	
Notes	
Type	

Hit the Tab key or mouse over the page to see all interactive elements.

Introduction

The WDGE LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing a true site-wide solution. Embedded with nLight® AIR wireless controls, the WDGE family provides additional energy savings and code compliance.

WDGE2 with industry leading precision refractive optics provides great uniform distribution and optical control. When combined with multiple integrated emergency battery backup options, including an 18W cold temperature option, the WDGE2 becomes the ideal wall-mounted lighting solution for pedestrian scale applications in any environment.



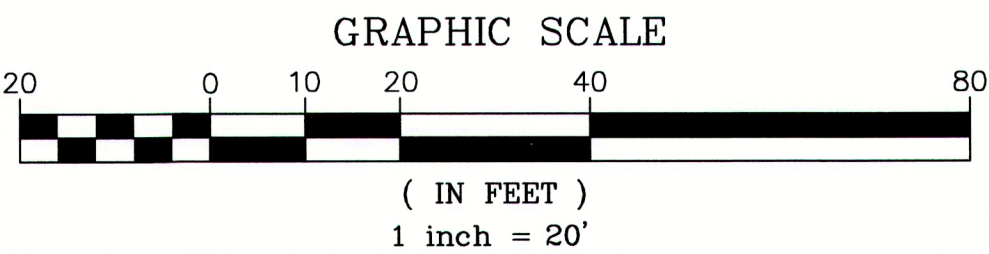
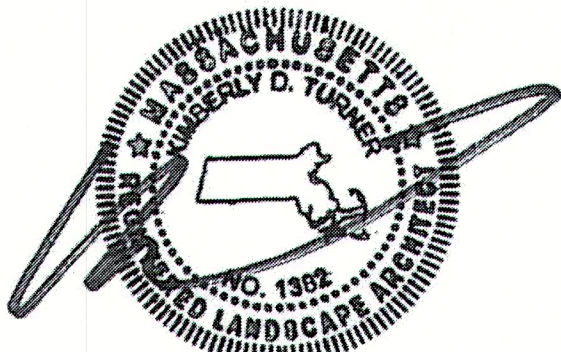
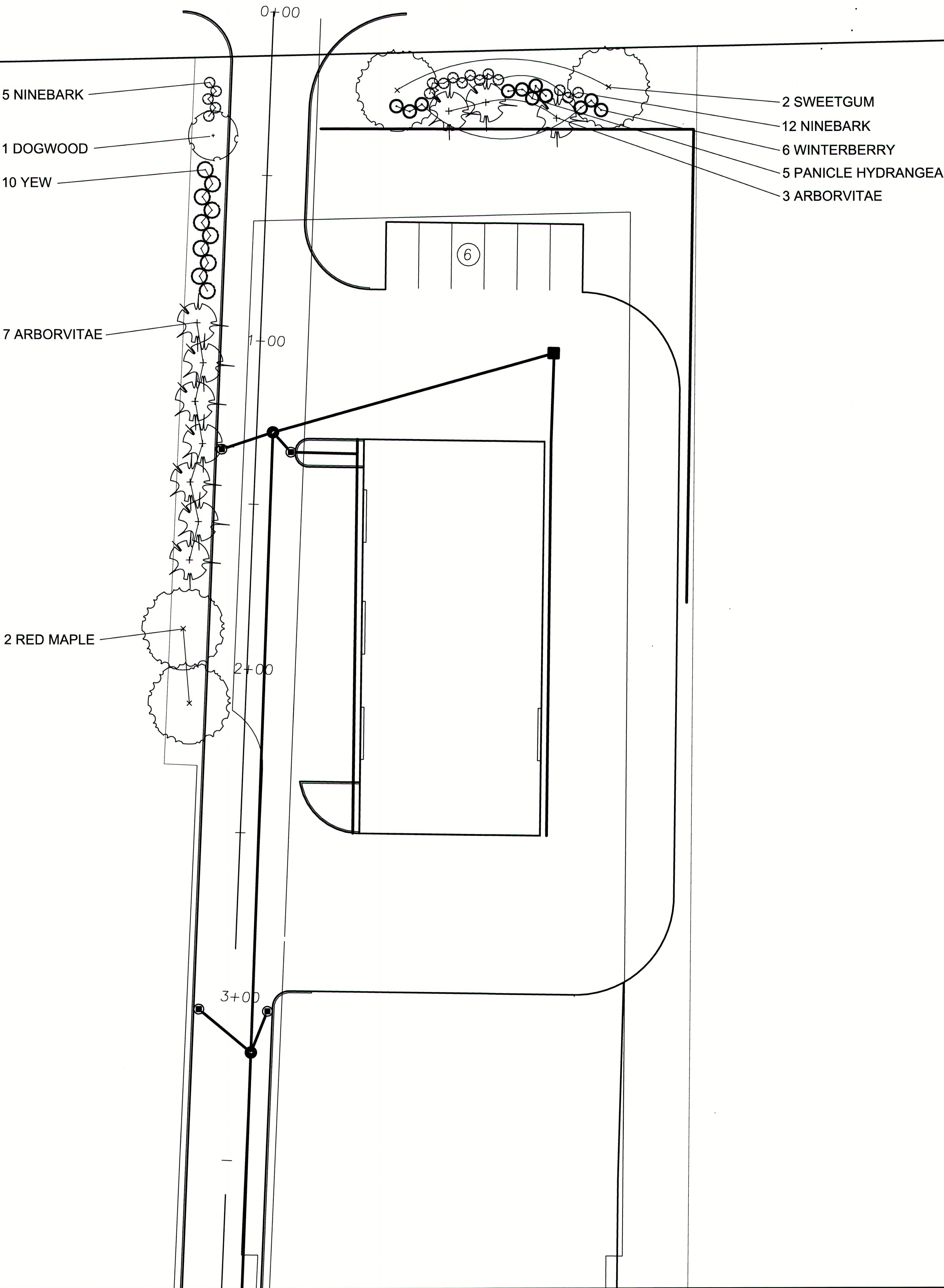
Site Lighting Layout
At
163 ELM STREET

Designer
Heidi G. Connors
Visible Light, Inc.
24 Stickney Terrace
Suite 6
Hampton, NH 03842
Date
6/21/2022
Scale
1"=50'
Drawing No.

Summary

163 Elm Plant List

Trees			
2	Acer rubrum 'October Glory'	October Glory Red Maple	2.5-3" cal.
1	Cornus x rutban	Dogwood	2-2.5" cal.
2	Liquidambar styraciflua	Sweetgum	2.5-3" cal.
10	Thuja 'Green Giant'	Arborvitae	8-10' ht.
Shrubs			
5	Hydrangea paniculata 'Quickfire'	Panicle Hydrangea	5 gal.
6	Ilex verticillata	Winterberry	5 gal.
17	Physocarpus opulifolius	Ninebark	5 gal.
10	Taxus x media 'Densiformis'	Yew	5 gal.



PREPARED FOR

4			
3			
2			
1	6/13/22	FOR REVIEW	KT
NO.	DATE	DESCRIPTION	BY

KDTurner Design
landscape architecture
27 High St.
Newburyport, MA 01950
ph) 781.632.6004

SCALE: 1"=20'
DATE: JUNE 13, 2022

LANDSCAPE PLAN
IN
SALISBURY, MA

SHOWING
PROPOSED SITE DEVELOPMENT
AT
163 ELM STREET

L-1