



Andrews Survey & Engineering, Inc.
Land Surveying - Civil Engineering - Site Planning

P.O. Box 312, 104 Mendon Street
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P: 508-278-3897 F: 508-278-2289

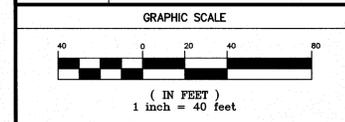
500 East Washington Street
North Attleboro, Massachusetts 02760
P: 508-316-0452 F: 508-316-0963

PROJECT: LAKELAND FARMS
TOWNHOUSE COMMUNITY
84 CLEVELAND STREET
NORFOLK, MA 02056

APPLICANT: LAKELAND FARMS, LLC
84 CLEVELAND STREET
NORFOLK, MA 02056

REVISIONS		
NO.	DATE	DESCRIPTION

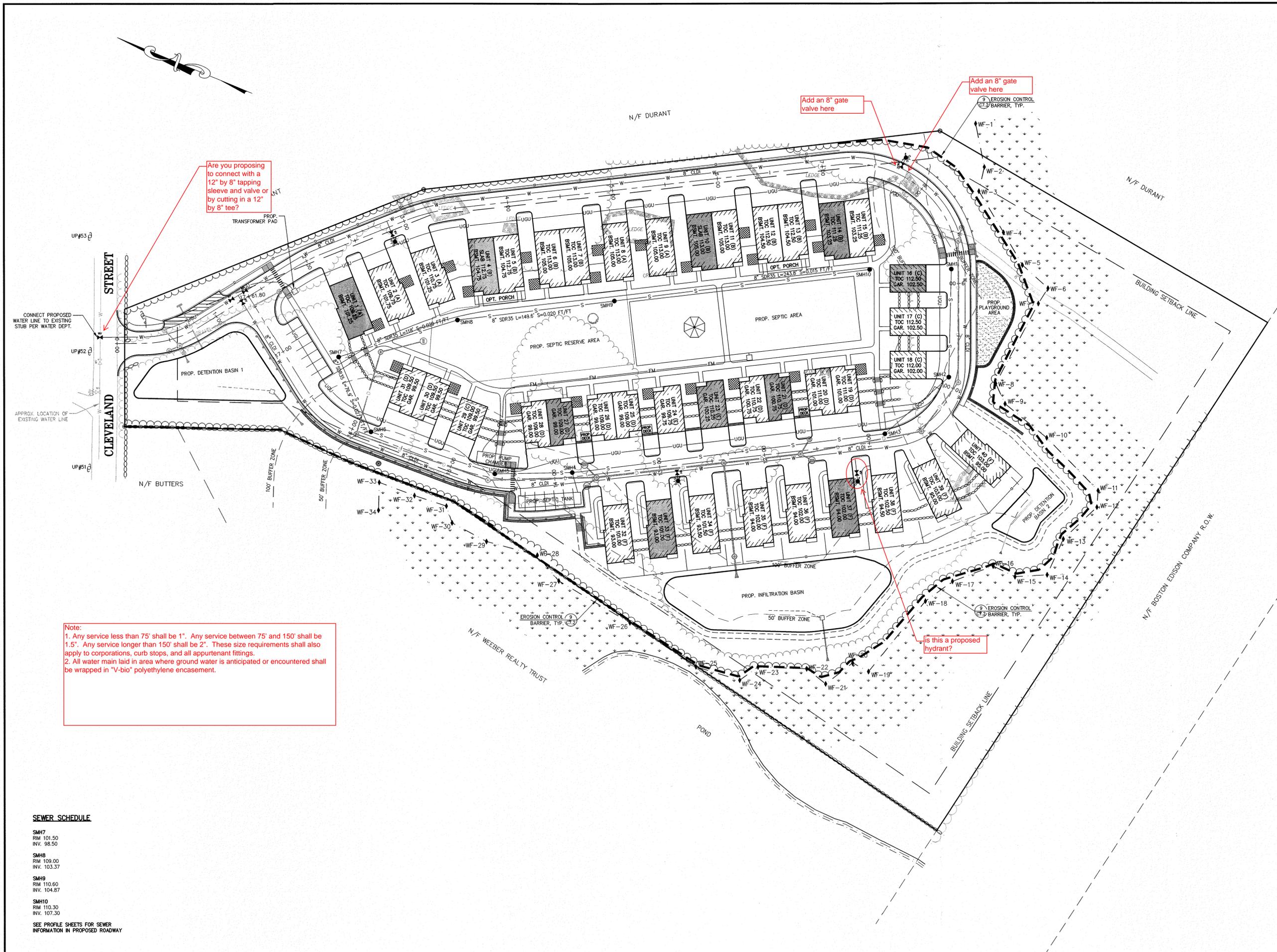
CAD FILE	.\dwg\2014-111_SP.dwg
DRAWN BY	SJO, TRB
CHECKED BY	PBH, BJA
DATE	APRIL 19, 2016
PROJECT NO.	2014-111



SHEET TITLE

UTILITY PLAN

	DRAWING NO.
	C-4.0
	PLAN NO. L-4819



Are you proposing to connect with a 12" by 8" tapping sleeve and valve or by cutting in a 12" by 8" tee?

Add an 8" gate valve here

Add an 8" gate valve here

is this a proposed hydrant?

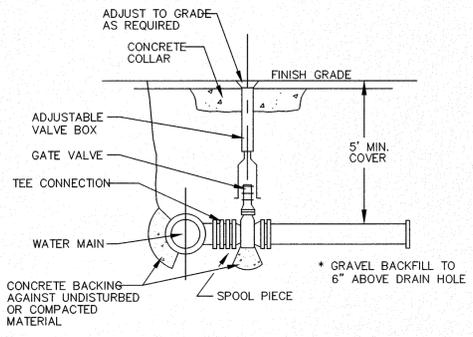
Note:
1. Any service less than 75' shall be 1". Any service between 75' and 150' shall be 1.5". Any service longer than 150' shall be 2". These size requirements shall also apply to corporations, curb stops, and all appurtenant fittings.
2. All water main laid in area where ground water is anticipated or encountered shall be wrapped in "V-bio" polyethylene encasement.

SEWER SCHEDULE

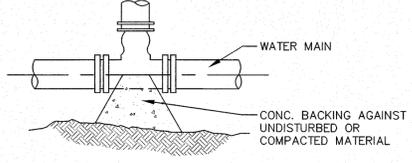
SMH7	RIM 101.50	INV. 98.50
SMH8	RIM 109.00	INV. 103.37
SMH9	RIM 110.60	INV. 104.87
SMH10	RIM 110.30	INV. 107.30

SEE PROFILE SHEETS FOR SEWER INFORMATION IN PROPOSED ROADWAY

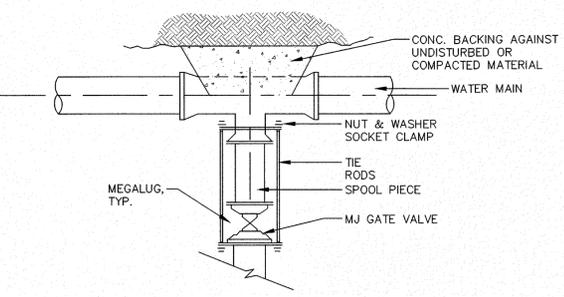
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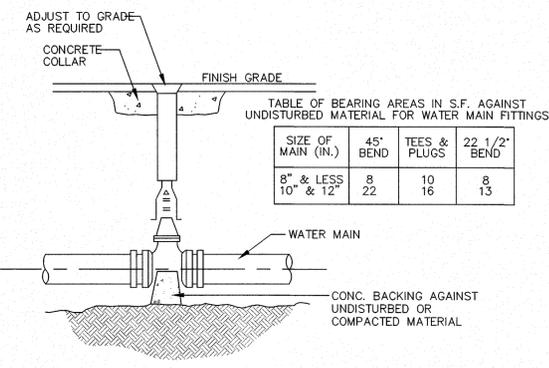
TYPICAL VALVE DETAIL



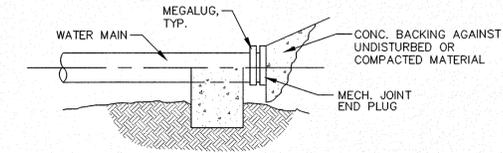
TYPICAL TEE



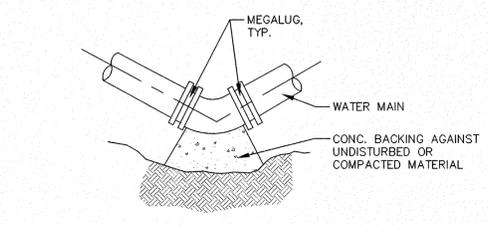
TYPICAL VALVE CONNECTION - RESTRAINED JOINT TEE



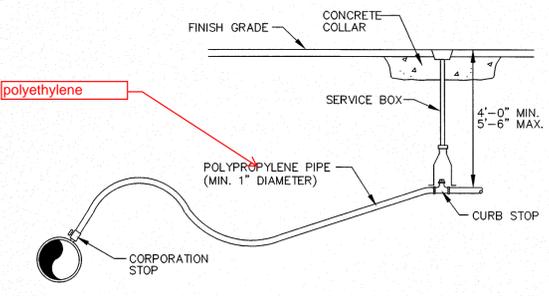
TYPICAL VALVE



TYPICAL PLUG DETAIL



TYPICAL BEND DETAIL



TYPICAL WATER SERVICE DETAIL

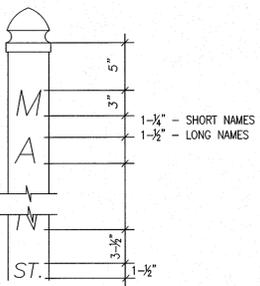
NOTE:
WATER APPURTENICES TO CONFORM WITH LOCAL WATER COMPANY SPECIFICATIONS.

1 TYPICAL WATER SUPPLY DETAILS
SCALE: N.T.S.

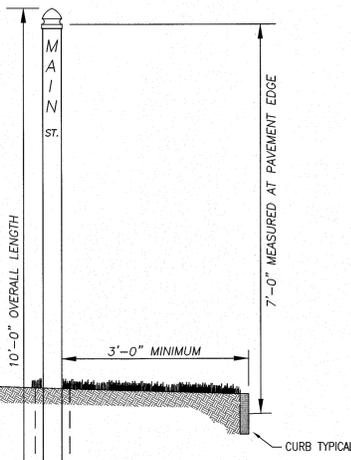
service
with pack joint

NOTES:
1. ALL FITTINGS SHALL BE COMPRESSION TYPE.
2. VALVES TO OPEN IN DIRECTION SPECIFIED BY NORFOLK DPW.
3. MECHANICAL JOINTS TO BE MEGALUG, OR APPROVED EQUAL.
4. VALVE BOXES SHALL HAVE CEMENT CONCRETE COLLARS.

MATERIAL - POST AND CAP:
1. NOMINAL 5" x 5" SQUARE SECTION POST
2. MATCHING GOTHIC CAP
3. WHITE 100% VIRGIN VINYL WITH TITANIUM DIOXIDE CONTENT FOR UV PROTECTION
4. 0.200 IN. WALL THICKNESS
5. AS MANUFACTURED BY KROY BUILDING PRODUCTS, INC. OR APPROVED EQUAL
6. JOIN CAP TO POST WITH CLEAR PVC SOLVENT CEMENT MEETING ASTM D-2564



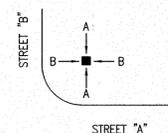
2 TYPICAL STREET SIGN
SCALE: N.T.S.



NOTES:
1. DIG HOLE WITH APPROPRIATELY SIZED POST HOLE DIGGER OR AUGER.
2. POST MUST BE SET PLUMB.
3. BACKFILL IN LIFTS OF NO MORE THAN 6". TAMP EARTH LIFT THOROUGHLY.

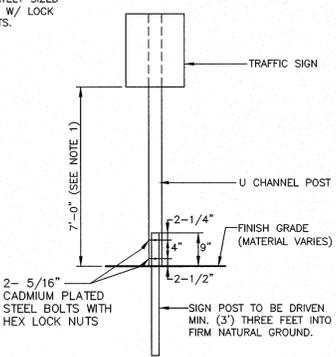
LETTERING:
1. HELVETICA MEDIUM STYLE
2. VINYL - FOR EXTERIOR USE
3. PRESSURE SENSITIVE ADHESIVE
4. REFLECTIVE BLACK
5. STREET NAME - 3" HIGH LETTERS
6. DESIGNATION (ST, DR, ETC) 1-1/2" HIGH

DESIGNATION ABBREVIATIONS:
STREET * ST
DRIVE * DR
WAY * WAY
LANE * LA
ROAD * RD
TERRACE * TER
TRAIL * TR
PATH * PATH
AVENUE * AVE
BOULEVARD * BLVD
SUBMIT OTHERS FOR APPROVAL
NO PERIODS USED



PULL UP DETERRANT:
1. STAINLESS STEEL EYEBOLTS AND NUTS
2. SNUG NUTS ONLY - DO NOT OVERTIGHTEN
3. DRIVEN 1/2" REBAR 2 FOOT MINIMUM LENGTH

NOTES:
1. SEE TRAFFIC CONTROL SCHEDULE FOR EXACT MOUNTING HEIGHT.
2. CHANNEL POST SECTIONS TO BE CONNECTED WITH AT LEAST TWO(2) APPROPRIATELY SIZED GALVANIZED BOLTS W/ LOCK WASHERS AND NUTS.



3 TYPICAL BREAKAWAY SIGN POST DETAIL
SCALE: N.T.S.

SIGN NO.	SIGN	SIZE AND COLOR
R1-1	STOP	30"x30"; WHITE ON RED
D-3	STREET NAME	6" X VARIES"; WHITE ON GREEN 3" MIN LETTERS
R1-2	YIELD	36"x36"x36"; RED ON WHITE
	NOT A THRU STREET	18"x24"; BLACK ON WHITE

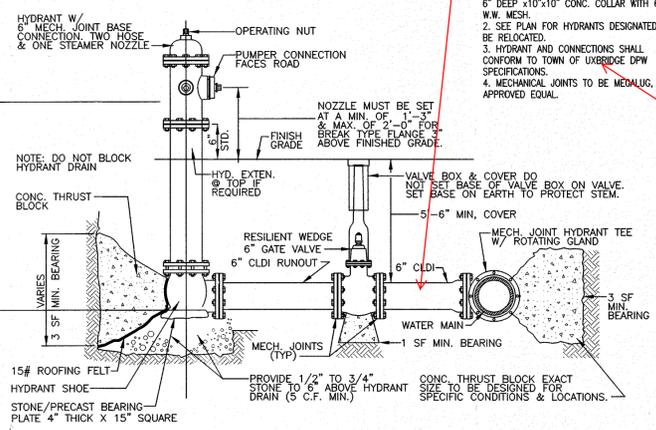
4 TRAFFIC CONTROL SIGNAGE
SCALE: N.T.S.

NOTE:
ALL SIGNS HAVE 7'-0" HEIGHT.

Eliminate spool length and bolt valve directly to the anchor tee unless field conditions necessitate otherwise.



5 STOP SIGN
SCALE: N.T.S.



6 TYPICAL FIRE HYDRANT CONNECTION DETAIL
SCALE: N.T.S.

NOTES:
1. WHERE GATE BOX NOT IN PAVEMENT, POUR 6" DEEP x10"x10" CONC. COLLAR WITH 6"x6" W.W. MESH.
2. SEE PLAN FOR HYDRANTS DESIGNATED TO BE RELOCATED.
3. HYDRANT AND CONNECTIONS SHALL CONFORM TO TOWN OF UXBRIDGE DPW SPECIFICATIONS.
4. MECHANICAL JOINTS TO BE MEGALUG, OR APPROVED EQUAL.

ASE
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SHEET TITLE
CONSTRUCTION DETAILS
SHEET 3 OF 6

DRAWING NO.
C-7.3
PLAN NO. L-4819



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