

DRAINAGE

6'øx40'-9 ½"

FIRE SUPPRESSION TANKS SECTION (B-B)

- 1.0' HAUNCHED SLAB

6" REINFORCED CONCRETE

F'c = 4,000 PSI (MIN.)

— #3 @ 24" O.C. E/W

(8,000 gallons)!

- SOIL BACKFILL

(SEE NOTE #2)

EXISTING 15"Ø DRAINAGE

SHALL PROTECT DURING

- APPROX. EXCAVATION

LINE. CONTRACTOR

20,000 GALLONS (MINIMUM) OF STORAGE TANK WATER

SLAB AND SLAB SUBBASE MATERIAL) SHALL FOLLOW

CONCRETE SLAB PREPARATION NOTES:

AS LISTED BELOW IN THE TABLE.

SELECT GRANULAR MATERIAL

SIEVE SIZE

1/4 INCH

NO. 40

NO. 200

THE FLOOR SLAB SUBBASE COURSE SHALL BE SELECT GRANULAR MATERIAL

AT LEAST 6 INCHES IN DEPTH. THE SUBBASE MATERIAL OF CRUSHER-RUN

MATERIAL, SECTION 304-2.02 OF THE NYSDOT STANDARD SPECIFICATIONS,

25 TO 60

5 TO 40

0 TO 10

STONE SHOULD CONFORM TO THE GRADATION CRITERIA OF TYPE 2

PERCENT FINER BY WEIGHT

SHALL BE ABOVE THE TOP OF PUMP INLET PIPE.

2. ALL BEDDING AND BACKFILL MATERIAL (EXCLUDING

XERXES INSTALLATION MANUAL SPECIFICATIONS.

CONSTRUCTION OF WATER

SHALL BRACE OR SHORE

EXCAVATION WHERE AND

WHEN NECESSARY (TYP.)

CONCRETE SPECIFICATIONS:

- F'c = 4,000 PSI (MIN.)

- AIR CONTENT RANGE 5% TO 8%

CONCRETE SLAB

- N.Y.S.D.O.T. CLASS "C

- SLUMP 1" TO 3"

PIPE. CONTRACTOR

STORAGE TANKS

1.5' MIN. SOIL COVER

(SEE NOTE #2)

6'øx40'-9 ½'

(8,000 gallons

DRAINAGE

6'øx26'-5"

(5,000 gallons)

12" MIN. BEDDING

MIRAFI RSI — SERIES

WOVEN GEOSYNTHETIC

COMPACT SUBGRADE

XERXES INSTALLATION

INSTALL DEADMAN PER -

FABRIC OR EQUAL

BELOW BEDDING

MANUAL (TYP.)

- XERXES WATER STORAGE TANK-

(1) PLYWOOD BARRIER IS SET ON TOP OF BACKFILL TO ENSURE

ACCESS RISER TOP TO PREVENT ANY BACKFILL & VEHICLE LOADS

THAT THERE IS AT LEAST A 3-INCH CLEARANCE ABOVE THE

STREET BOX DETAIL

N.T.S.

TO BE TRANSFERRED ON TO THE RISER.

(SEE NOTE#2)

SLAB EDGE

EL. 491.7___

48"ø H20 WATERTIGHT STREET

FLANGE PATTERN NUMBER 1065

FOUNDARY COMPANY SQUARE

BOX COVER (CAMPBELL

NO BACKFILL ON TOP

OF ACCESS RISER ---

PLYWOOD BARRIER (1)—

XERXES INSTÀLLATION

SOIL COVER (SEE

SPECIFICATIONS) -

MANUAL FOR

- OR EQUAL) -

EL. 490.7

EXISTING WOOD-

GUIDE RAIL. REMOVE AND

NEEDED.

REPLACE AS

APPROX. EXCAVATION -

SHALL BRACE OR SHORE

EXCAVATION WHERE AND

WHEN NECESSARY (TYP.) BOTTOM OF

LINE. CONTRACTOR

PAVEMENT (MATCH EXISTING PAVEMENT SPECIFICATIONS) 8" N.Y.S. DOT ITEM 4 COMPACTED CRUSH STONE WARNING TAPE 5'-0" MIN. SELECT BACKFIL SEE NOTE 1 12" MIN PIPE BEDDING MATERIAL (SEE NOTE 2) UNDISTURBED — TRENCH WIDTH = PIPESOIL OR ROCK BELL DIA. + 24" FOR > 24"ø

. SELECT BACKFILL TO BE AS EXCAVATED MATERIAL WHICH HAS PAVEMENT, ROOTS, DEBRIS AND STONES GREATER THAN 3" REMOVED. MATERIAL TO BE PLACED IN A MAXIMUM LIFT OF 8" AND COMPACTED TO 95% PROCTOR DENSITY. 2 FOUNDATION MATERIAL FOR TRENCH BOTTOM AND BACKFULL FOR THE FIRST 12" LIFT OVER PIPE INSTALLATIONS SHALL BE DEFINED AS PIPE BEDDING MATERIAL AND SHALL BE NATURAL RUN-OF-BANK SAND GRADED FROM FINE TO COARSE PARTICLES, OR A GRADED MIXTURE OF CRUSHED STONE OR CRUSHED GRAVEL BEDDING MATERIAL. PIPE BEDDING MATERIAL SHALL BE HARD. DURABLE AND SOUND AND SHALL BE WELL GRADED FROM COURSE TO FINE. THE GRADATION TO BE USED IS TO BE AS APPROVED BY THE ENGINEER. HOWEVER, IN GENERAL, THE MAXIMUM DIAMETER OF THE LARGE PARTICLES SHALL NOT EXCEED 3/4 INCH; ONE HUNDRED PERCENT (100%) BY WEIGHT SHALL PASS THE 3/4-INCH SIEVE; NOT MORE THAN SEVENTY PERCENT (70%) BY WEIGHT SHALL PASS THE NO. 40 MESH SIEVE; AND NOT MORE THAN TEN PERCENT (10 %) BY WEIGHT SHALL PASS THE NO. 200 MESH SIEVE.

RUN OF BANK (R.O.B.) GRAVEL SHALL BE HARD, DURABLE AND SOUND MEETING THE REQUIRÉMENTS OF NYSDOT 304-1 TYPE 3, AND SHALL BE WELL GRADED FROM COURSE TO FINE. THE GRADATION TO BE USED IS TO BE AS APPROVED BY THE ENGINEER. HOWEVER, IN GENERAL, ONE HUNDRED PERCENT (100%) BY WEIGHT OF THE PARTICLES SHALL BE OF SUCH SIZE AS WILL PASS THROUGH A FOUR-INCH-SQUARE HOLE: 50 - 75 PERCENT BY WEIGHT SHALL PASS THE NO. 4, 5 - 40 PERCENT BY WEIGHT SHALL PASS THE NO. 40 MESH SIEVE; AND NOT MORE THAN 10 PERCENT BY WEIGHT SHALL PASS THE NO. 200 MESH SIEVE.

TYPICAL WATER MAIN TRENCH DETAIL N.T.S.

- 1/8"X2.0" SAWCUT [SOFT CUT], FILL WITH SEALER (SHORE HARDNESS > 80)

SAW CUT SLAB WITHIN 12 HOURS AFTER SLAB HAS BEEN PLACED. 2. 30' MAX SPACING OF CONTROL JOINTS

SAWED CONTROL JOINT

ALLOW CONCRETE TO CURE FOR 10 DAYS (MIN.) PRIOR TO OPENING TO VEHICULAR TRAFFIC. COLD WEATHER CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI-306.

ALL REINFORCING BAR DETAILS SHALL CONFORM TO THE LATEST ACI CODE AND DETAILING

4. ALL BARS SHALL BE ASTM A-615, GRADE 60.

TINE FINISH (PROVIDE DAYTON

CONCRETE CURING COMPOUND

CLEAR RESIN CURE J11W

— #3 BARS @ 24" O.C. E/W

- 6" SELECT GRANULAR

MATERIAL (SEE CONCRETE

SLAB PREPARATION NOTES)

- MIRAFI RSI — SERIES WOVEN

CONCRETE NOTES:

GEOSYNTHETIC FABRIC OR EQUAL BELOW BEDDING

– FILL PER TANK

N.T.S.

MANUFACTURER

OR EQUAL)

— 6" CONC SLAB

PROVIDE CONCRETE CURING COMPOUND (DAYTON CLEAR RESIN CURE J11W OR EQUAL). THROUGHOUT CONSTRUCTION THE CONCRETE WORK SHALL BE ADEQUATELY PROTECTED AGAINST DAMAGE DUE TO EXCESSIVE LOADING, CONSTRUCTION EQUIPMENT, MATERIALS OR METHODS, ICE, RAIN, SNOW, EXCESSIVE HEAT AND FREEZING TEMPERATURES

PROPOSED SLAB QUALITY ASSURANCE NOTES:

CALENDAR DAYS AFTER CONCRETE PLACEMENT.

1. DURING THE SLAB CONCRETE PLACEMENT, THE CONTRACTOR SHALL HIRE A THIRD PARTY TESTING ORGANIZATION WITH CERTIFICATES OF ACCREDITATION FOR CONCRETE TESTING. THE TESTING AGENCY SHALL CAST THREE SETS (PAIRS) OF TEST CYLINDERS IN ADDITION TO EACH SET CAST FOR RECORD AND CURE THE CYLINDERS ON SITE IN THE SAME MANNER AS THE SLAB. 2. THE ENGINEER WILL FORWARD CYLINDERS TO THE MATERIALS BUREAU OR REGIONAL TESTING FACILITY. ONE SET WILL BE TESTED SEVEN CALENDAR DAYS AFTER PLACEMENT AND, IF NECESSARY, THE SECOND SET WILL BE TESTED FOURTEEN, AND, IF NECESSARY, THE LAST SET WILL BE TESTED TWENTYEIGHT

CONCRETE SLAB DETAILS

WATER FACILITIES TESTING PROCEDURES

ALL WATER MAIN TESTING SHALL BE PERFORMED UNDER THE SUPERVISION OF THE PROJECT ENGINEER AND CERTIFICATES OF COMPLIANCE WITH TEST STANDARDS SHALL BE PROVIDED TO THE TOWN.

PRESSURE AND LEAKAGE TESTS OF THE SYSTEM SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF AWWA STANDARD C600-05 ENTITLED, "INSTALLATION OF DUCTILE IRON WATER MAINS AND THEIR APPURTENANCES", SECTION 4, "HYDROSTATIC TESTING" OR LATEST

1. PRESSURE TEST

ALL PIPING AND APPURTENANCES SHALL BE SUBJECT TO A HYDROSTATIC PRESSURE OF AT LEAST 1.5 TIMES THE WORKING PRESSURE AT THE POINT OF TESTING. BEFORE APPLYING THE SPECIFIC TEST PRESSURE, AIR SHALL BE EXPELLED COMPLETELY FROM THE PIPES, VALVES, HYDRANTS, ETC. CORPORATION STOPS MAY BE REQUIRED TO BE INSTALLED AT SUCH POINTS SO THAT THE AIR CAN BE EXPELLED AS THE LINE FILLS WITH WATER. THE REQUIRED PRESSURE, AS MEASURED AT THE POINT OF TESTING, SHALL BE APPLIED FOR NOT LESS THAN 2 HOURS AND MAY NOT VARY BY MORE THAN APPROXIMATELY 5 PSI FOR THE DURATION OF THE TEST. TEST PRESSURE AT THE HIGHEST POINT ALONG THE TEST SECTION MAY NOT BE LESS THAN 1.25 TIME THE WORKING PRESSURE. TEST PRESSURE SHALL NOT EXCEED PIPE OR THRUST-RESTRAINT DESIGN PRESSURES.

2. LEAKAGE TEST

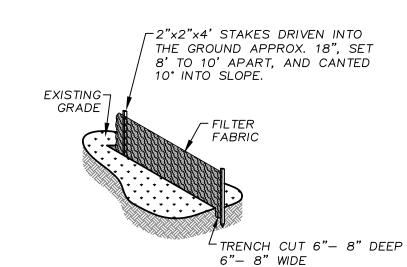
THE LEAKAGE TEST SHALL BE CONDUCTED CONCURRENTLY WITH THE PRESSURE TEST. LEAKAGE IS DEFINED AS THE QUANTITY OF WATER THAT MUST BE SUPPLIED INTO THE TEST SECTION TO MAINTAIN THE SPECIFIED TEST PRESSURE. A DROP IN PRESSURE IN THE TEST SECTION SHALL NOT MEASURE LEAKAGE OVER A PERIOD OF TIME. NO PIPE INSTALLATION WILL BE ACCEPTED IF THE LEAKAGE IS GREATER THAN THAT DETERMINED BY THE FOLLOWING FORMULA:

$L = SD (P)^{\Lambda} 0.5$ 148.000

- L = THE ALLOWABLE LEAKAGE, IN GALLONS PER HOUR.
- S = THE LENGTH OF PIPE TESTED, IN FEET. D = THE NOMINAL DIAMETER OF THE PIPE. IN INCHES.
- P = THE AVERAGE TEST PRESSURE DURING THE LEAKAGE TEST, IN PSI (GAUGE). ALL PRESSURE AND LEAKAGE TESTS SHALL BE WITNESSED BY CERTIFYING ENGINEER OF THE WATER SUPPLY SYSTEM.

3. TEST FAILURES

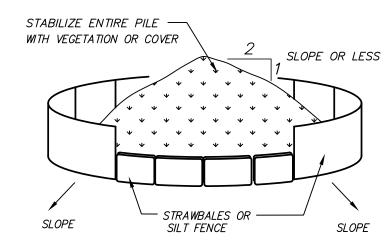
- A. IF ANY PIPE SECTION FAILS THE TEST, NECESSARY REPAIRS SHALL BE MADE AND ALL TESTS REPEATED UNTIL THE WATERMAIN PASSES ALL TESTS.
- B. ALL REPAIRS AND RETESTING SHALL BE DONE TO THE SATISFACTION OF THE SUPERVISING ENGINEER.



CONSTRUCTION SPECIFICATIONS: FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH

- WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
- 2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED SIX INCHES AND FOLDED.
- FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N OR APPROVED EQUIVALENT. 3. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR
- APPROVED EQUIVALENT. 4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT
- 5. INSTALL SILT FENCE DOWN GRADIENT TO ALL DISTURBED AREAS AS REQUIRED.

SILT FENCE DETAIL N.T.S.



INSTALLATION NOTES:

- 1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND
- MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAWBALES, THEN STABILIZED WITH VEGETATION OR COVERED.

SOIL STOCKPILING

MULCHING '

1. SITE PREPARATION

- A. PRIOR TO MULCHING, INSTALL THE NECESSARY TEMPORARY OR PERMANENT EROSION CONTROL (STRUCTURAL) PRACTICES WITHIN OR ADJACENT TO
- AREA TO BE MULCHED. B. SLOPE, GRADE AND SMOOTH THE SITE IF CONVENTIONAL EQUIPMENT IS TO BE USED IN
- APPLYING AND ANCHORING THE MULCH. C. REMOVE ALL UNDESIRABLE STONES AND OTHER
- DEBRIS DEPENDING ON ANTICIPATED LAND USE. D. COMPACTED OR CRUSTED SOIL SURFACE SHOULD BE LOOSENED TO AT LEAST TWO INCHES BY DISKING OR
- OTHER SUITABLE METHODS.

2. MULCHING MATERIALS

THE BEST COMBINATION FOR GRASS/LEGUME ESTABLISHMENT IS STRAW (SMALL GRAIN) MULCH APPLIED AT 2 TON/ACRE (90 LBS./1,000 SQ. FT.) AND ANCHORED WITH WOOD FIBER MULCH (HYDROMULCH) AT 500-700 LBS./ACRE (11-17 LBS./1,000 SQ. FT.). THE WOOD FIBER MULCH MUST BE APPLIED THROUGH A HYDROSEEDER IMMEDIATELY AFTER MULCHING.

IRRIGATION IS PROVIDED. TEMPORARY VEGETATIVE COVER *:

DISLODGE PLANTING SOIL.

PERMANENT VEGETATIVE COVER *

b. SCARIFY COMPACTED SOIL AREAS.

c. LIME AS REQUIRED TO PH 6.0

a. INSTALL EROSION CONTROL MEASURES.

d. FERTILIZE WITH 5-10-10 13.75LB/1,000 S.F.

e. INCORPORATE AMENDMENTS INTO SOIL WITHIN DISC HARROW.

a. PREPARE SEED BED BY RAKING TO REMOVE STONES,

b. APPLY SOIL AMENDMENTS AND INTEGRATE INTO SOIL

CULTI-PACKER OR HYDRO-SEEDER AT RATE INDICATED.

SEPTEMBER 1ST TO NOVEMBER 15TH. SEEDING MAY OCCUR

d. IRRIGATE TO FULLY SATURATE SOIL LAYER, BUT NOT TO

BETWEEN JUNE 1ST AND AUGUST 31ST IF ADEQUATE

TWIGS, ROOTS AND OTHER FOREIGN MATERIAL.

e. SEED BETWEEN MARCH 15TH TO MAY 31ST AND

c. APPLY SEED UNIFORMLY BY CYCLONE SEEDER

1. SITE PREPARATION

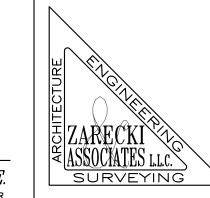
1. SITE PREPARATION

2. SEEDING

- a. INSTALL EROSION CONTROL MEASURES. b. SCARIFY AREAS OF COMPACTED SOIL.
- c. FERTILIZE WITH 10-10-10 AT 400/ACRE. d. LIME AS REQUIRED TO pH 6.5. 2. SEED SPECIES
- **MIXTURE** LB./ACRE RAPIDLY GERMINATING ANNUAL
- RYFGRASS

SAME AS PERMANENT VEGETATIVE COVER

- PERENNIAL RYEGRASS
- CEREAL OATS 3. SEEDING
- "NOTE: PERMANENT/TEMPORARY VEGETATIVE COVER MEASURES (I.E. SEED, MULCH, ETC) AND METHODS SHALL BE APPROVED BY OWNER/ARCHITECT)



DETAILS & NOTES PREPARED FOR

UNCLE BOB'S SELF STORAGE

TOWN OF SOUTHEAST, PUTNAM COUNTY, N.Y.

SCALE: AS SHOWN CHECKED BY: JZ DATE: 05-07-2013 PROJECT NO.: 2013.010

845.855.3772 (Fax)

ZARECKI & ASSOCIATES, L.L.C. Consulting Engineers - Land Surveyors - Architects 11 West Main St. Pawling, NY 12564 Ridgefield, CT 06877 845.855.3771 203.438.7094

2 OF 4

DRAWN BY: JC

DESIGN BY: JZ

DWG. NO.

