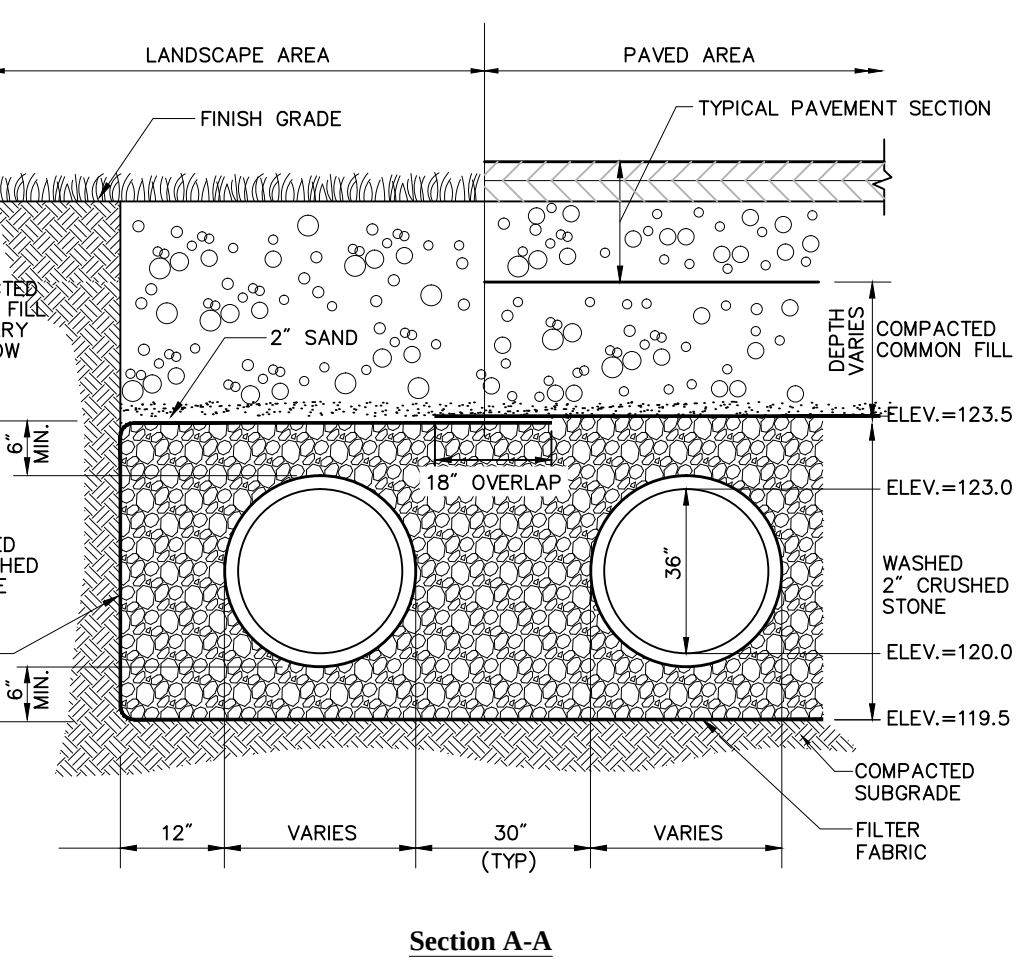
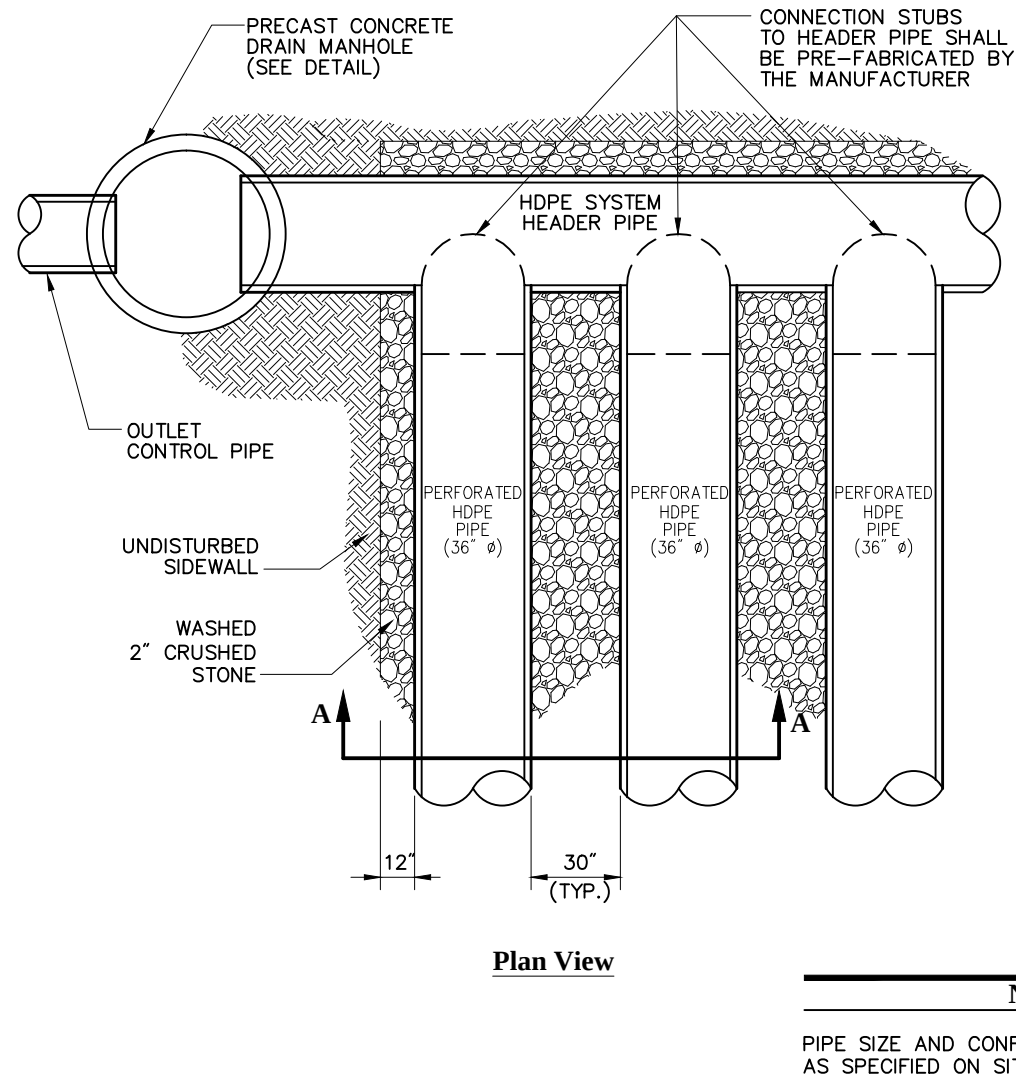
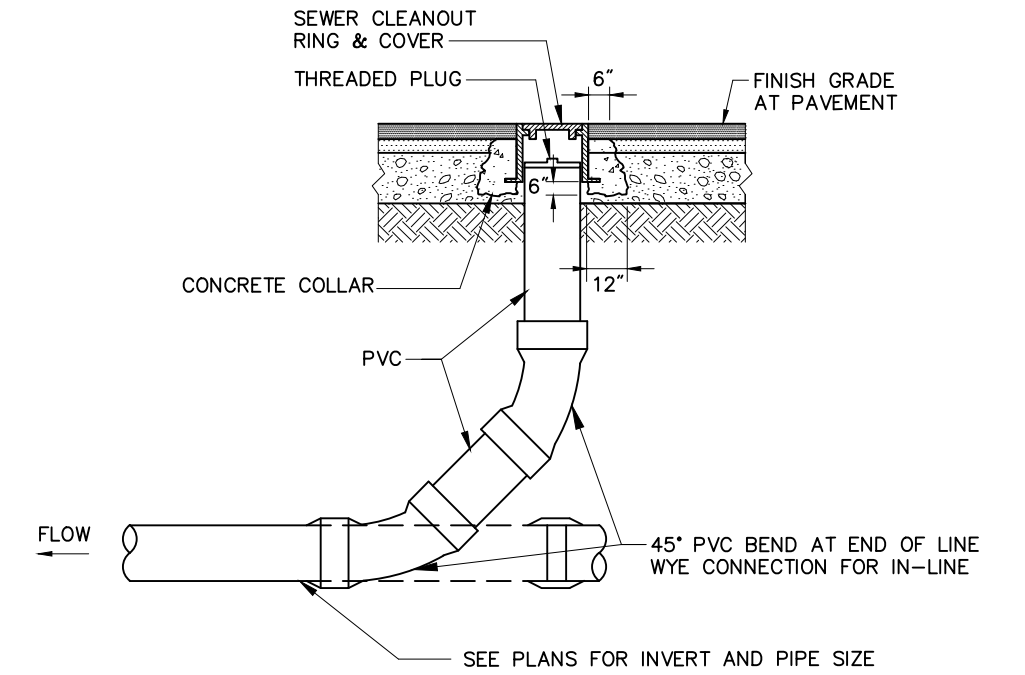
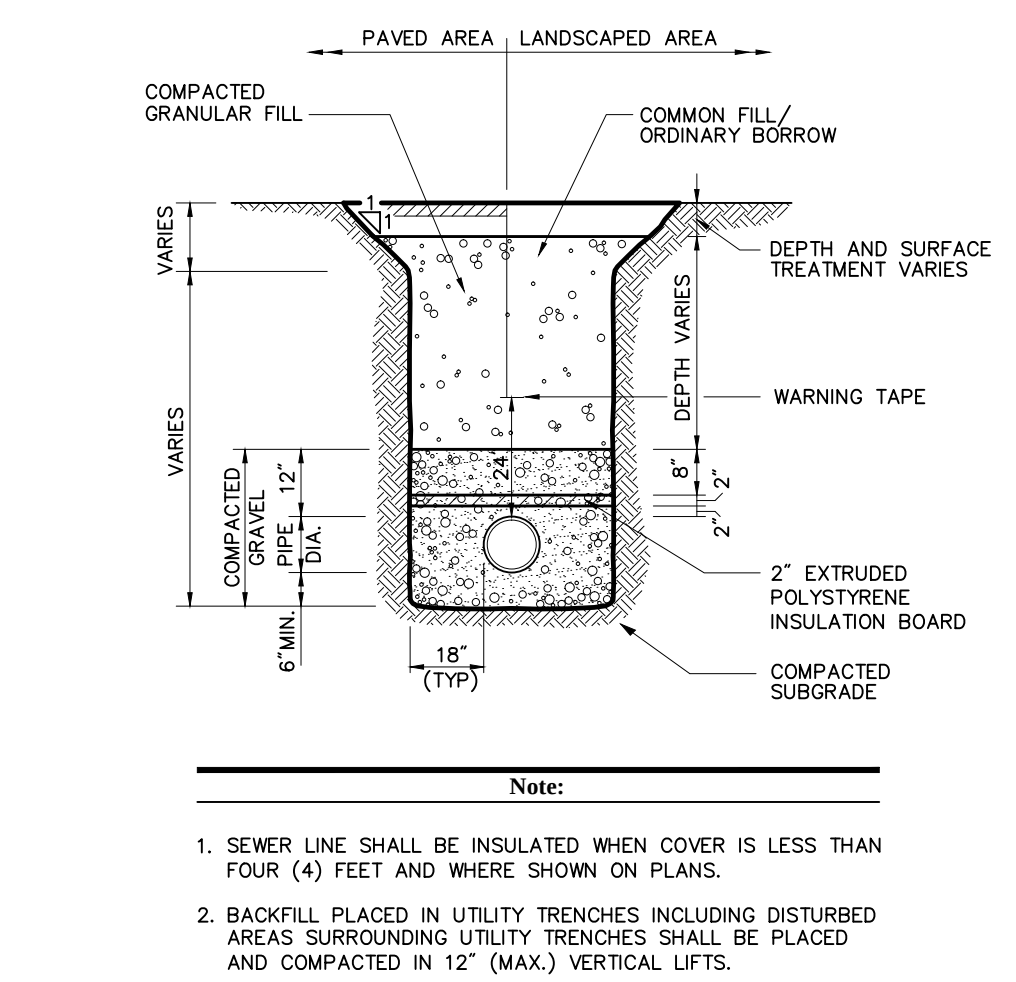
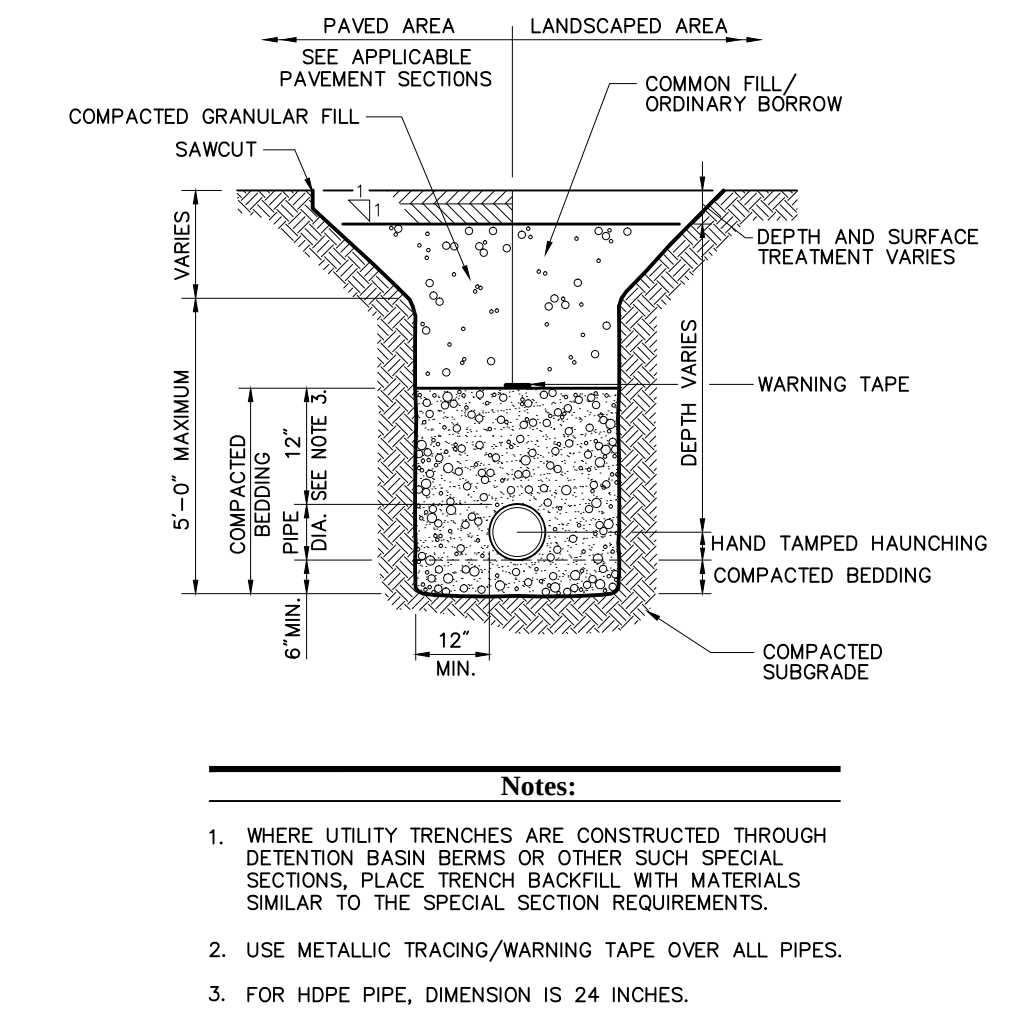
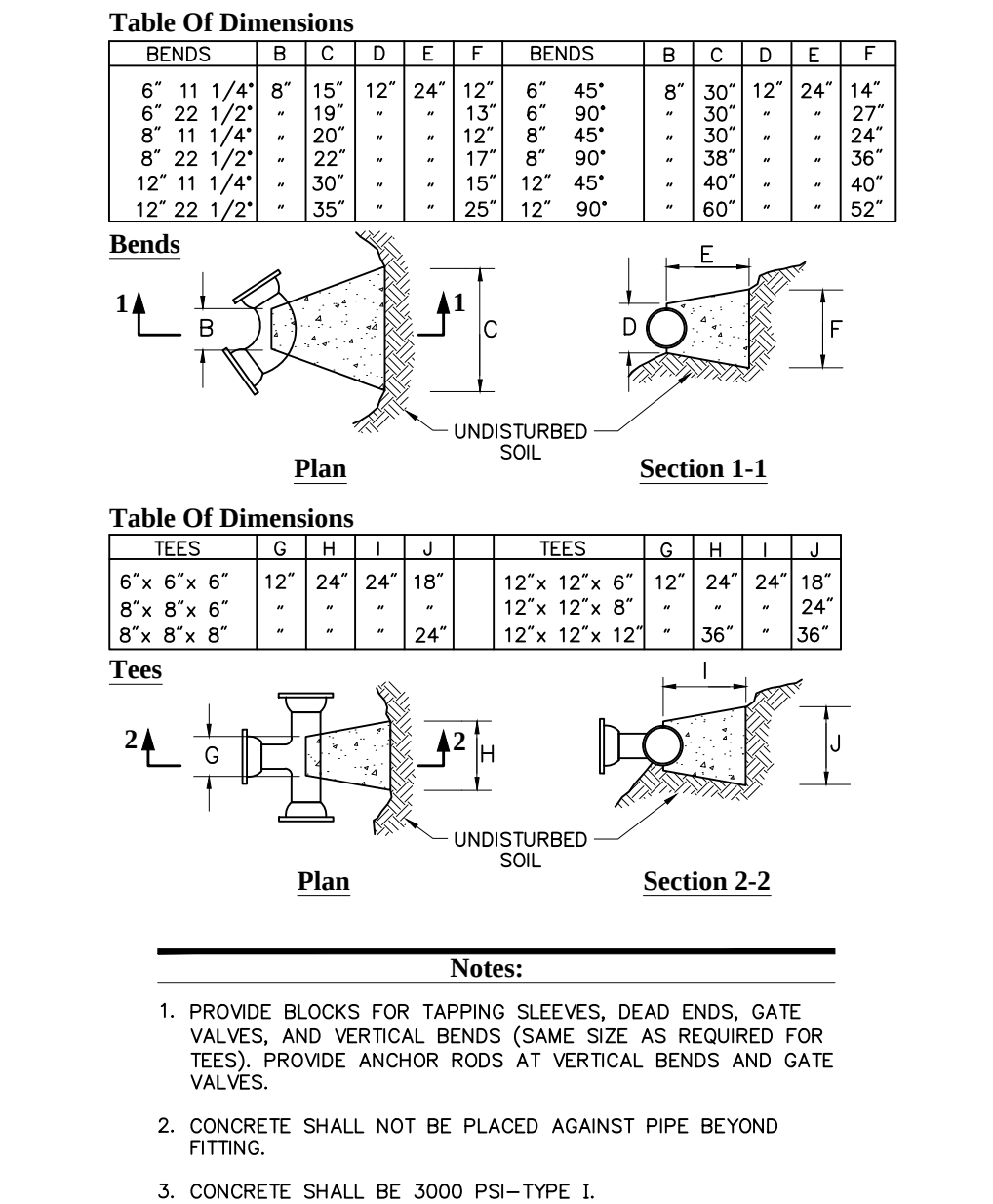
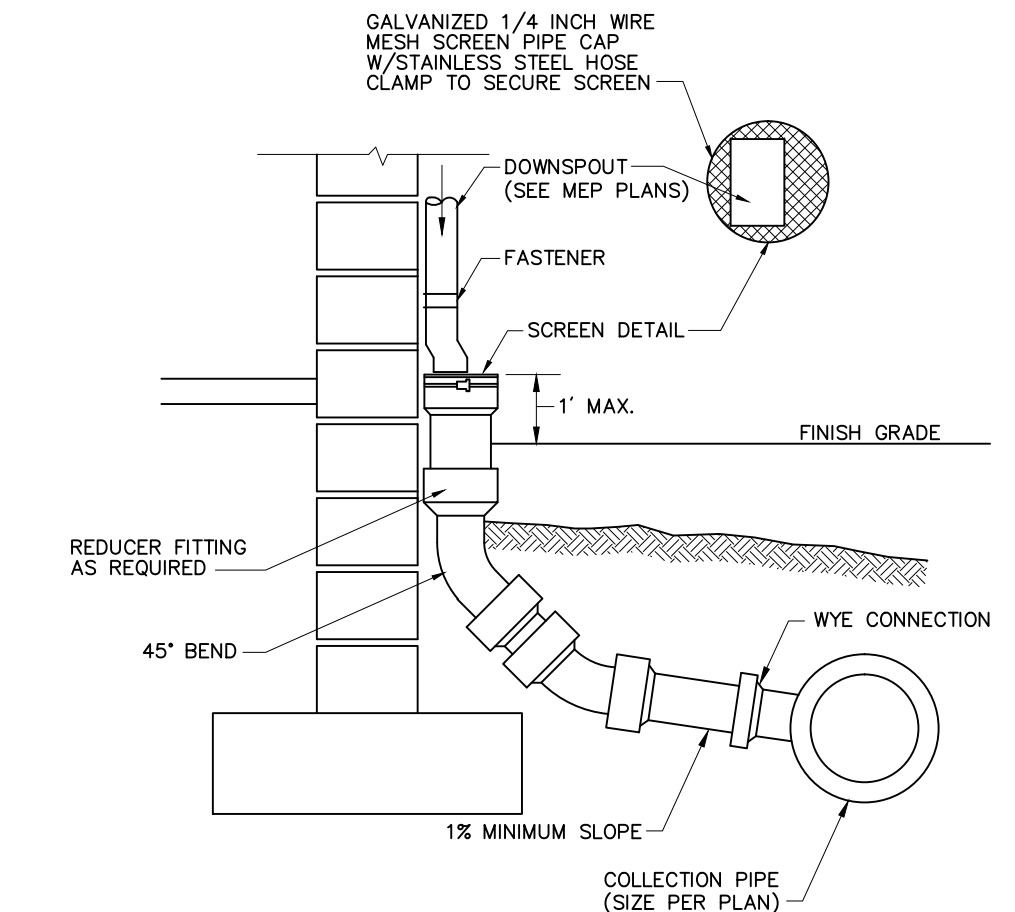




APPROVED BY THE NEWINGTON TOWN PLAN AND ZONING COMMISSION  
PETITION NO. 38-12, 39-12, 40-12  
AT THE MEETING OF: 4/10/13  
CHAIRMAN:  
DATE:

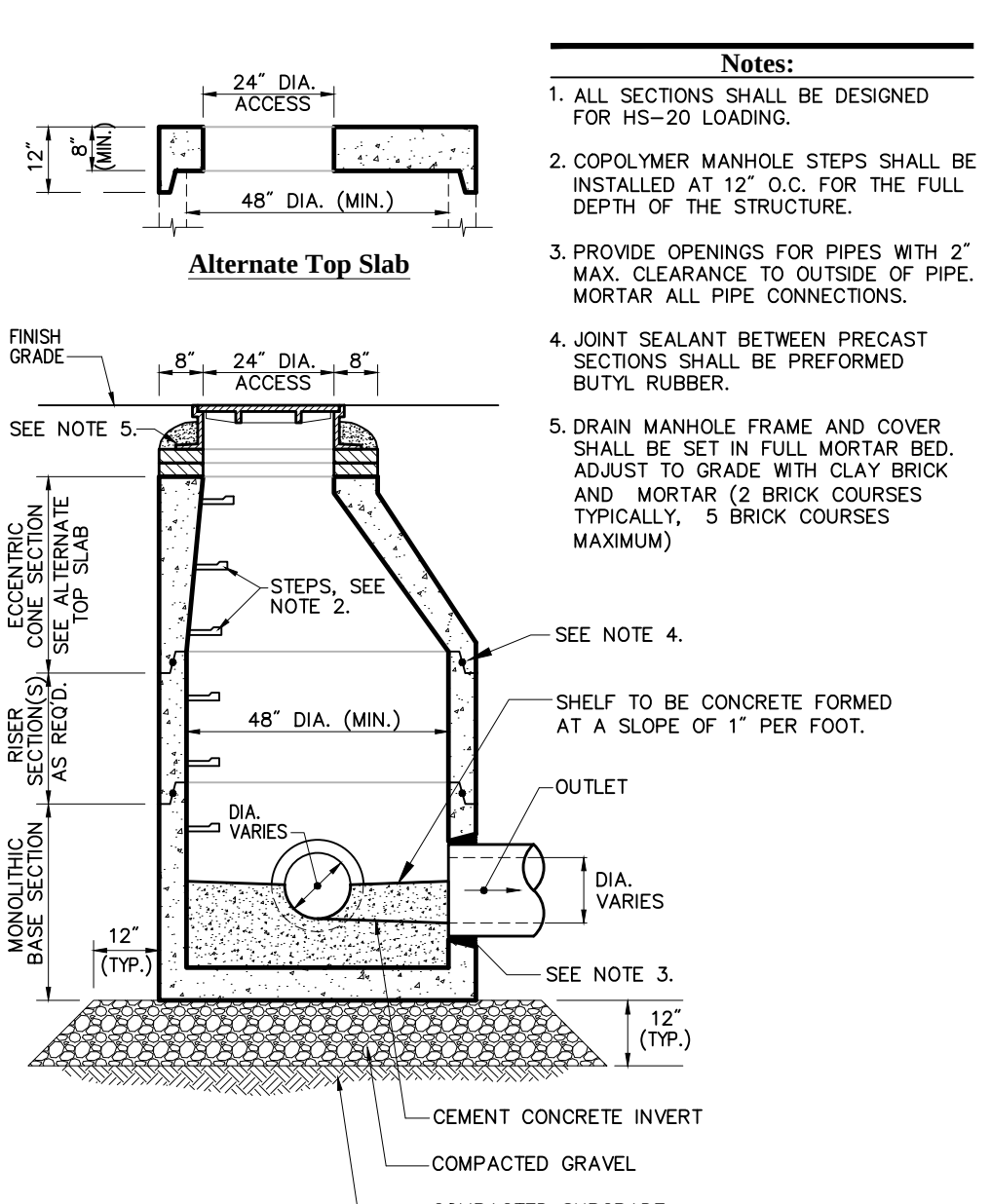
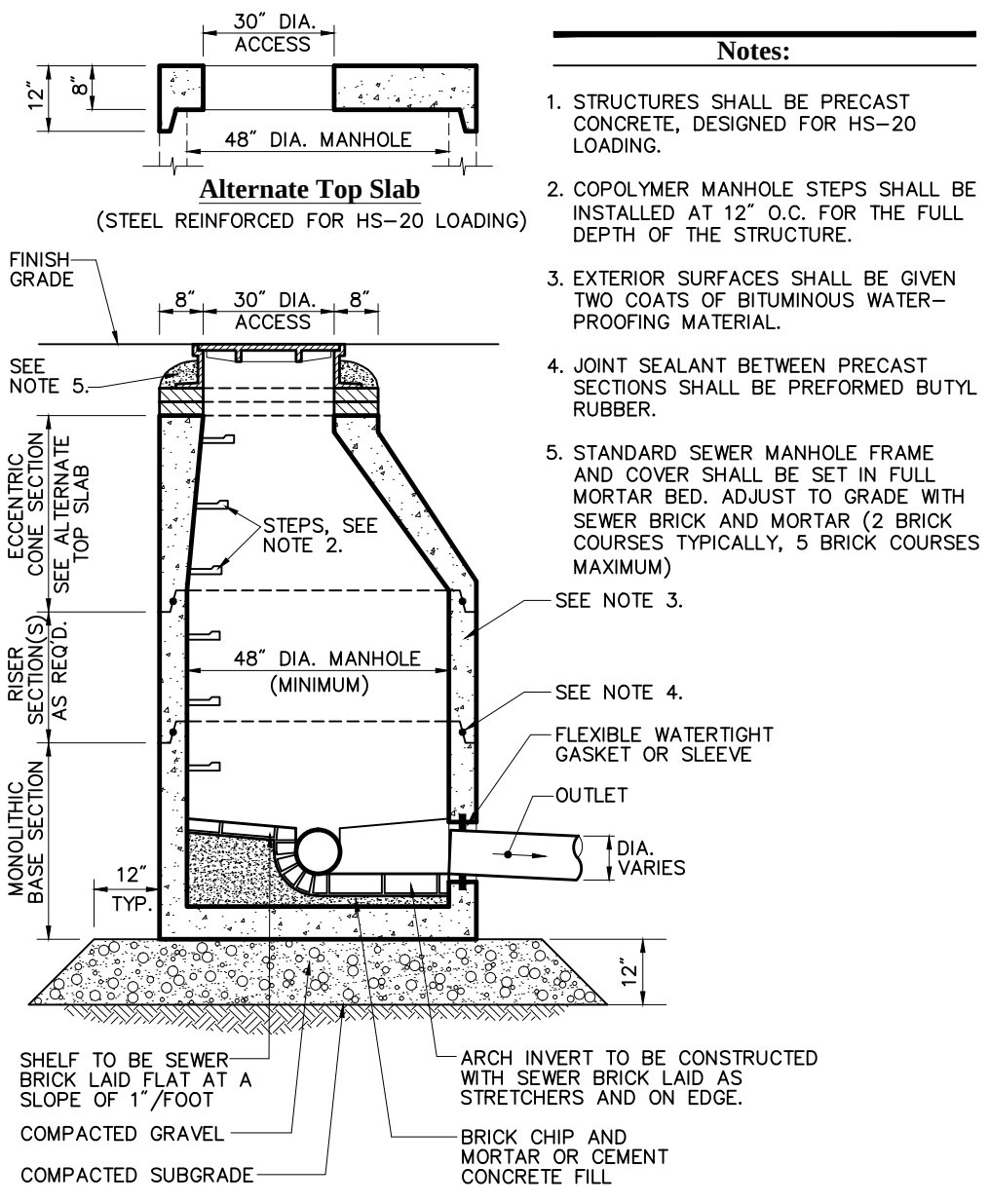
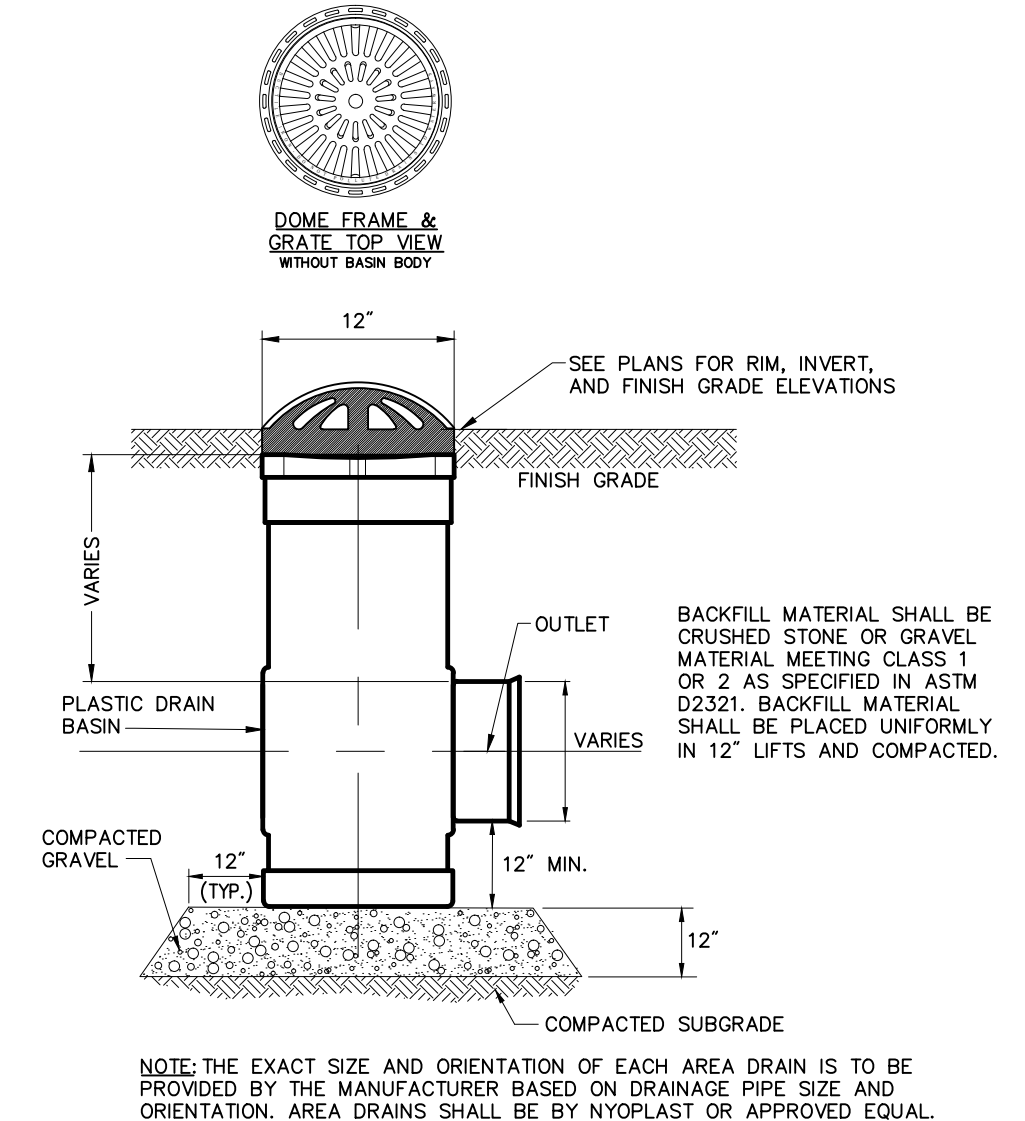
APPROVED BY THE NEWINGTON CONSERVATION COMMISSION  
PETITION NO. 2012-28  
AT THE MEETING OF: 12/18/12  
CHAIRMAN:  
DATE:

FIRESTONE COMPLETE AUTO CARE  
2903 BERLIN TURNPIKE  
NEWINGTON, CT 06111  
OWNER: WEX-TUCK REALTY, L.L.C.  
121 PARK STREET  
NEW CANAAN, CT 06840



ZONE APPROVAL (BY/DATE):  
VP. \_\_\_\_\_  
CONTR. \_\_\_\_\_  
RM. \_\_\_\_\_  
CM. \_\_\_\_\_  
PROPERTY NO.: 000000  
6 DIGIT NO.: 000000  
4 DIGIT NO.: 0000  
AOR PROJECT NUMBER: xxxxxx  
LOCAL APPROVALS: DATE: 11-26-12  
TOWN COMMENTS: DATE: 01-22-13  
TOWN COMMENTS: DATE: 04-19-13  
TOWN COMMENTS: DATE: 05-08-13

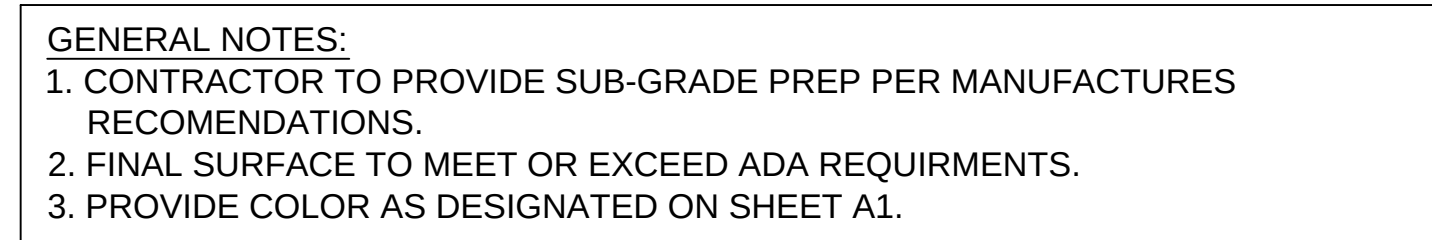
SHEET TITLE:  
SITE DETAILS 2  
SHEET NUMBER:  
C-8











18 CDL

IL DRAWINGS  
DITIONAL  
ATION.

RADE/PAVING/  
EE PLAN AND  
AWINGS

8" BOND BEAM WITH  
(1) #5 CONTINUOUS  
T.O. MASONRY = 6'-4" ABOVE  
TRASH ENCLOSURE SLAB

8" CMU WALL REINFORCED WITH  
#5 VERTICAL AT 24" O.C. FULL  
HEIGHT (CENTERED IN WALL).  
GROUT ENTIRE WALL SOLID

1/2" PREFORMED JOINT FILLER  
AND SEALANT

HORIZONTAL JOINT REINFORCING  
AT 16" O.C. (TYPICAL)

T.O. SLAB

SEE CIVIL DRAWINGS

CONCRETE SLAB

8" SMOOTH FACE CMU TO 4"  
ABOVE T.O. SLAB

#5 DOWELS WITH STANDARD HOOK  
AT 24" O.C. - CENTER IN WALL - LAP  
WITH VERTICAL WALL REINFORCING  
(TYPICAL)

CONTINUOUS WALL FOOTING W/  
(2) #5 CONTINUOUS

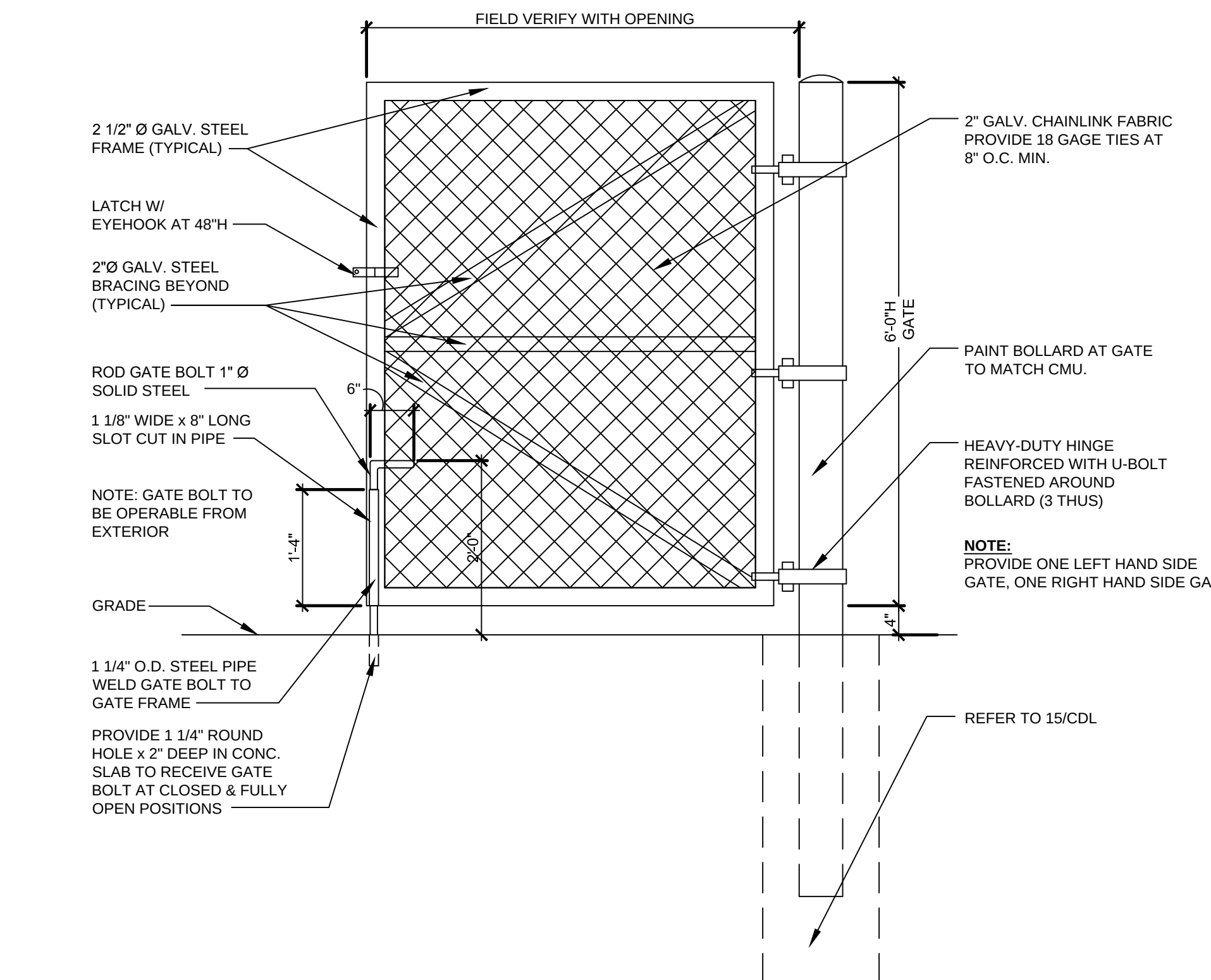
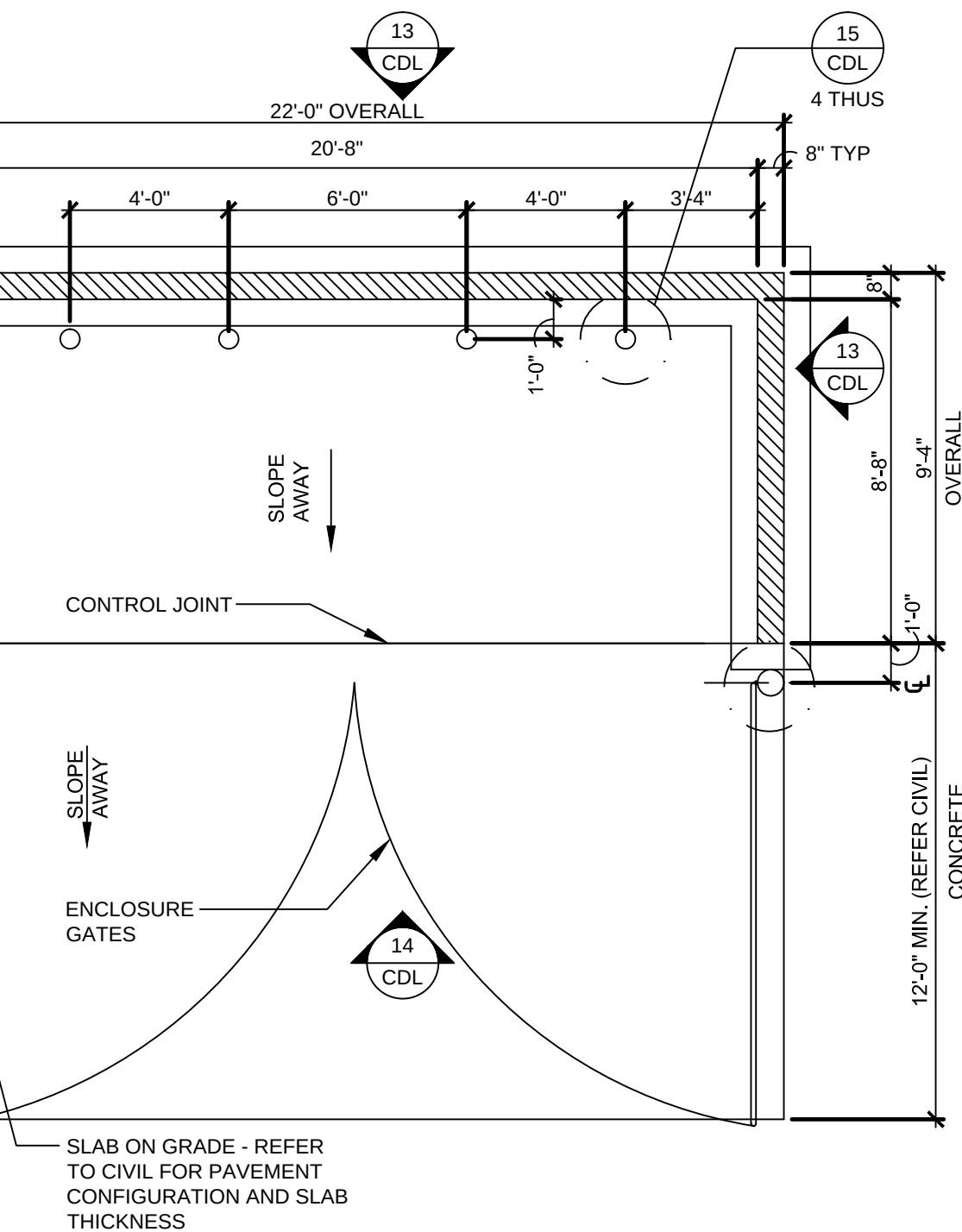
NOTE: TO STRUCTURAL

1'-0"

EQUAL

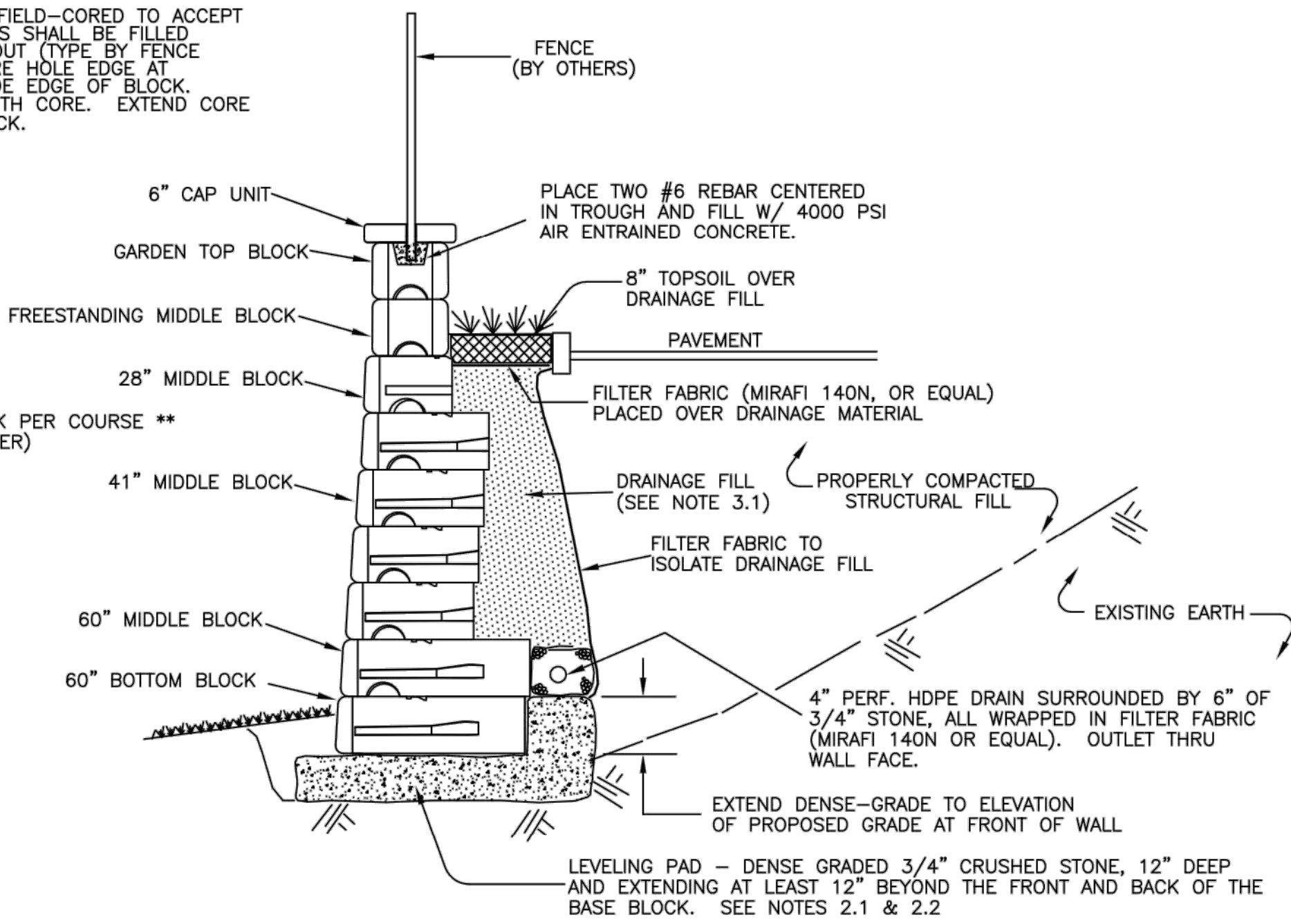
2'-0"

EQUAL





CAP & BLOCK TO BE FIELD-CORED TO ACCEPT FENCE POST. ANNULUS SHALL BE FILLED WITH NON-SHRINK GROUT (TYPE BY FENCE SUPPLIER). KEEP CORE HOLE EDGE AT LEAST 6" FROM OUTSIDE EDGE OF BLOCK. DO NOT CUT REBAR WITH CORE. EXTEND CORE 6" MIN. INTO TOP BLOCK.



TYPICAL SECTION - GRAVITY WALL  
(TYPICAL DETAIL ONLY - SEE WALL FACE DRAWING FOR SPECIFIC BLOCK CONFIGURATIONS)

"REDI-ROCK" SEGMENTAL RETAINING WALL

COMPACTION NOTE: WHERE THE RETAINING WALL PASSES OVER ANY UTILITY LINES, COMPACTION OF THE SOIL WITHIN THE UTILITY TRENCH IS CRITICAL IN ORDER TO PREVENT SETTLEMENT OF THE WALL. COMPACTION OF ALL FILL MATERIAL IN UTILITY TRENCHES WHICH PASS UNDER THIS RETAINING WALL MUST BE AT LEAST 95% OF THE MAXIMUM DENSITY OF THE FILL MATERIAL.

| STRUCTURAL FILL<br>GENERAL REQUIREMENTS |           |  |
|-----------------------------------------|-----------|--|
| SIEVE SIZE                              | % PASSING |  |
| 3.5"                                    | 100%      |  |
| 1.5"                                    | 30-75%    |  |
| 0.25"                                   | 25-60%    |  |
| #10                                     | 15-45%    |  |
| #40                                     | 5-25%     |  |
| #100                                    | 0-10%     |  |
| #200                                    | 0-5%      |  |

STRUCTURAL FILL PER GEOTECHNICAL REPORT

| IMPERVIOUS MATERIAL<br>GENERAL REQUIREMENTS |           |  |
|---------------------------------------------|-----------|--|
| SIEVE SIZE                                  | % PASSING |  |
| 3"                                          | 100%      |  |
| #4                                          | 80-100%   |  |
| #40                                         | 50-90%    |  |
| #100                                        | 40-80%    |  |
| #200                                        | 30-80%    |  |

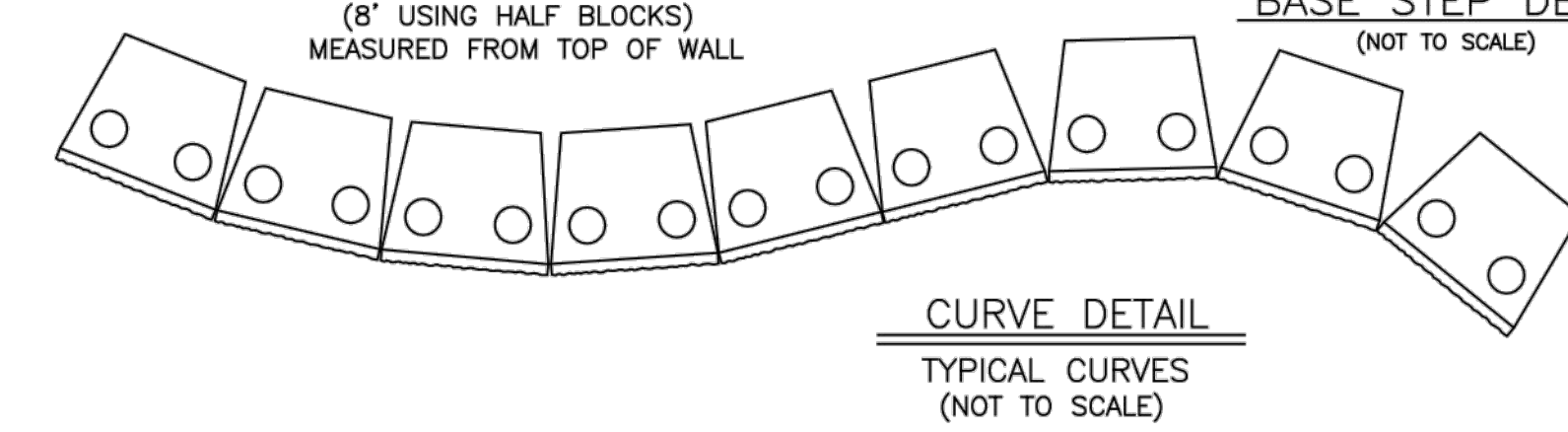
8" OF TOPSOIL IS AN ACCEPTABLE ALTERNATE FOR IMPERVIOUS FILL ALONG THE TOP OF THE WALL.

| DESIGN ASSUMPTIONS   |                  |    |
|----------------------|------------------|----|
| SOIL                 | SOIL UNIT WEIGHT | φ  |
| SELECT FILL/BACKFILL | 135              | 30 |
| RETAINED EARTH       | 135              | 30 |
| FOUNDATION SOIL*     | 135              | 30 |

APPLIED SURCHARGE LOADING: 250 psf  
SEISMIC ACCELERATION = 0.15  
\* WHERE PRESENT

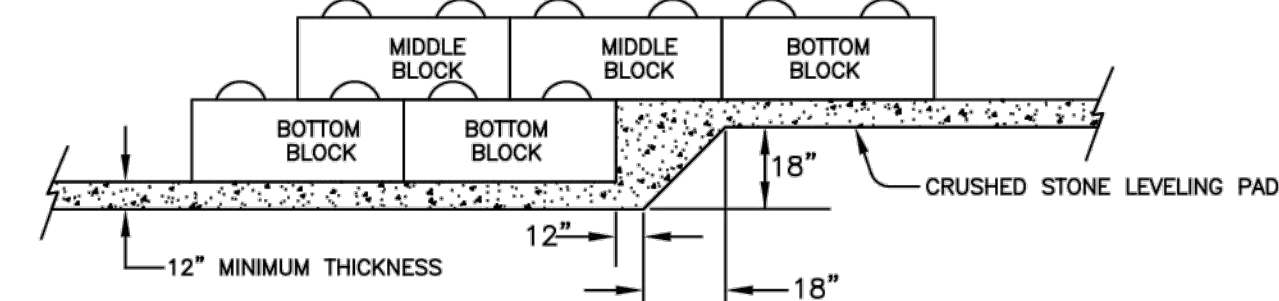
| DRAINAGE FILL - ASTM #57 STONE<br>GRADATION REQUIREMENTS |           |  |
|----------------------------------------------------------|-----------|--|
| SIEVE SIZE                                               | % PASSING |  |
| 1-1/2"                                                   | 100       |  |
| 1"                                                       | 95 - 100  |  |
| 1/2"                                                     | 25 - 60   |  |
| #4                                                       | 0 - 10    |  |
| #9                                                       | 0 - 5     |  |
| #200                                                     | 0 - 2     |  |

MIN. OUTSIDE CURVE  
RADIUS = 14.5'  
(8' USING HALF BLOCKS)  
MEASURED FROM TOP OF WALL

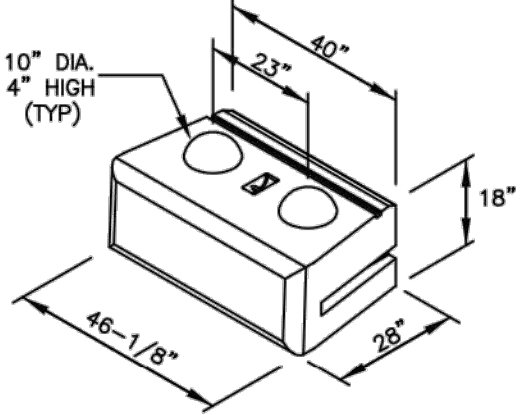


CURVE DETAIL  
TYPICAL CURVES  
(NOT TO SCALE)

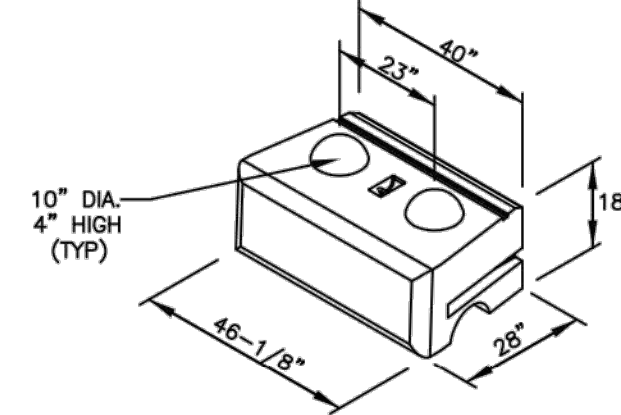
NOTE: WHERE THE REDI-ROCK WALL WILL BE SUPPORTED ON GROUND IMPROVEMENT GAP OR RAP PIERS IT IS THE RESPONSIBILITY OF THE GROUND IMPROVEMENT CONTRACTOR TO EVALUATE THE WALL FOR BEARING CAPACITY AND SLIDING FACTORS OF SAFETY.



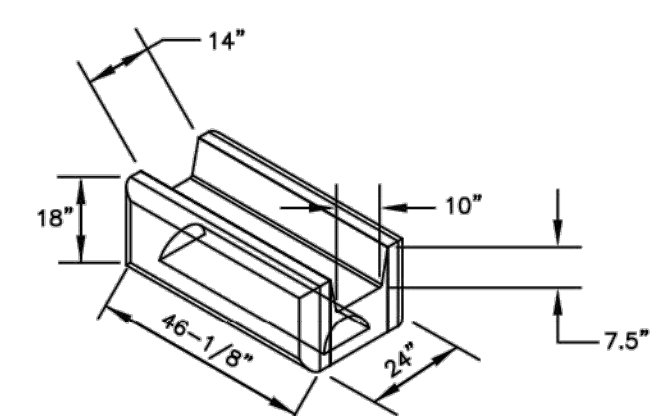
BASE STEP DETAIL  
(NOT TO SCALE)



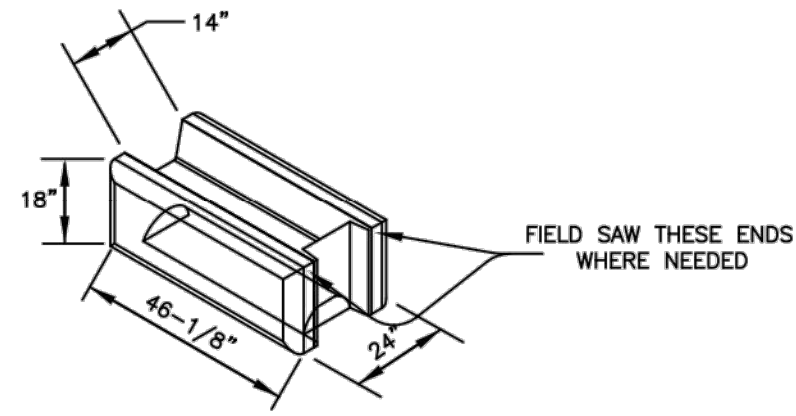
28" BOTTOM BLOCK  
NOT-TO-SCALE



28" MIDDLE BLOCK  
NOT-TO-SCALE

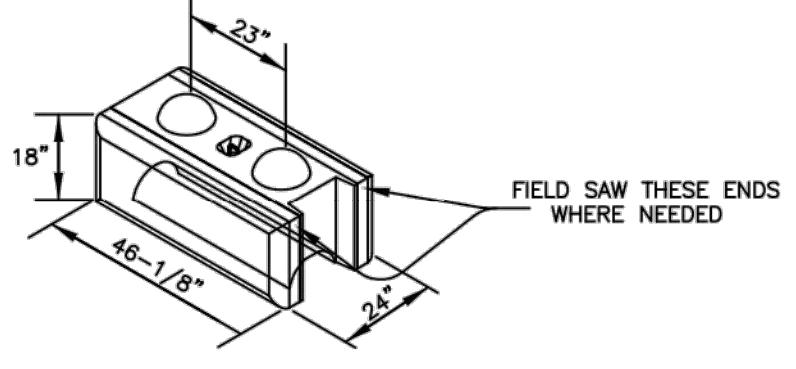


GARDEN TOP BLOCK  
NOT-TO-SCALE



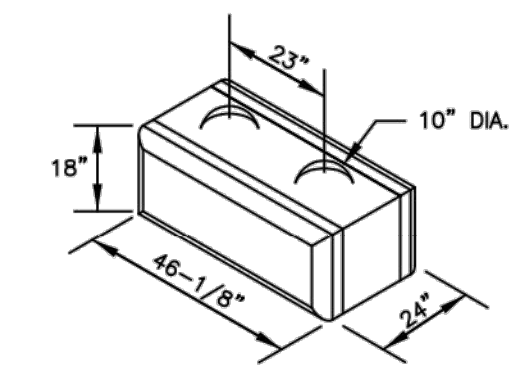
GARDEN TOP BLOCK  
VARIABLE RADIUS  
NOT-TO-SCALE

ALL STRAIGHT BLOCK STYLES ARE AVAILABLE WITH THE END BLOCK INSERT TO ALLOW THE BLOCKS TO BE USED IN VARIABLE RADIUS WALLS

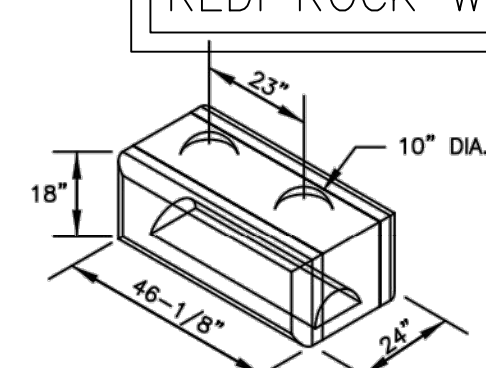


FREESTANDING VARIABLE RADIUS BLOCK  
MIDDLE BLOCK

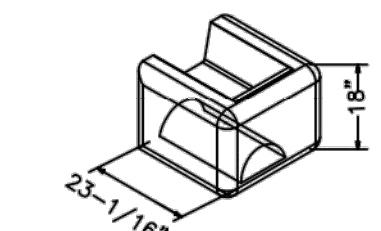
1. ALL STRAIGHT BLOCK STYLES ARE AVAILABLE WITH THE END BLOCK INSERT TO ALLOW THE BLOCKS TO BE USED IN VARIABLE RADIUS WALLS (FREESTANDING BLOCK ONLY).
2. FIELD SAW BLOCKS ON ENDS TO PROVIDE VARIABLE RADIUS WALLS.
3. INTERCHANGEABLE WITH "FLAT END" FREESTANDING BLOCK OF SIMILAR TYPE.



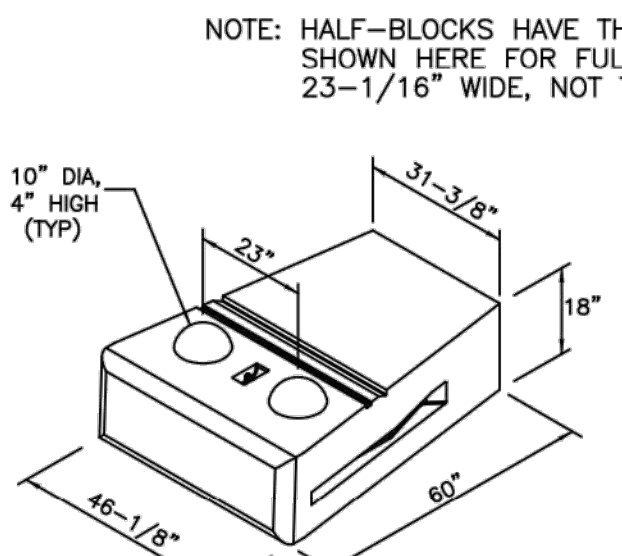
FREESTANDING BOTTOM BLOCK  
NOT-TO-SCALE



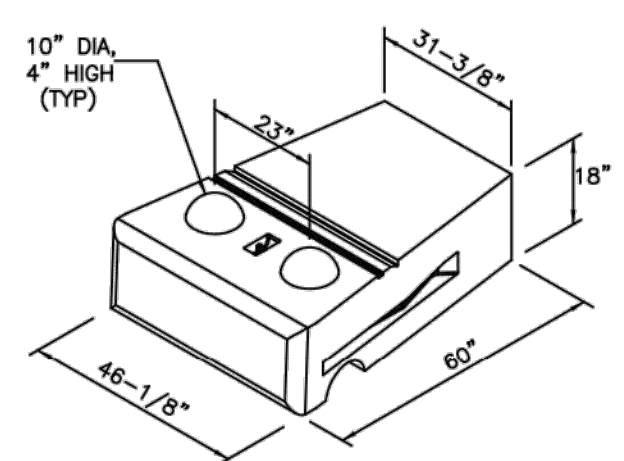
FREESTANDING MIDDLE BLOCK  
NOT-TO-SCALE



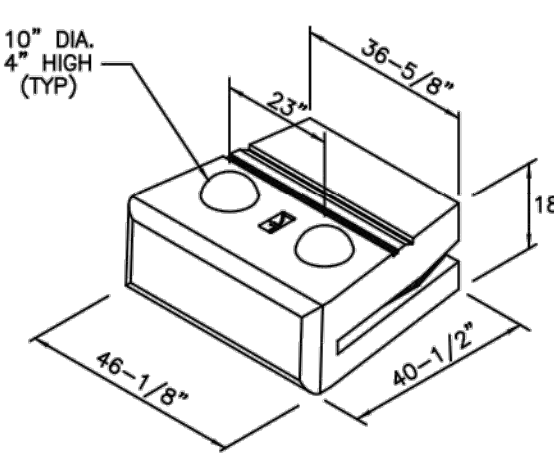
HALF GARDEN CORNER BLOCK  
NOT-TO-SCALE



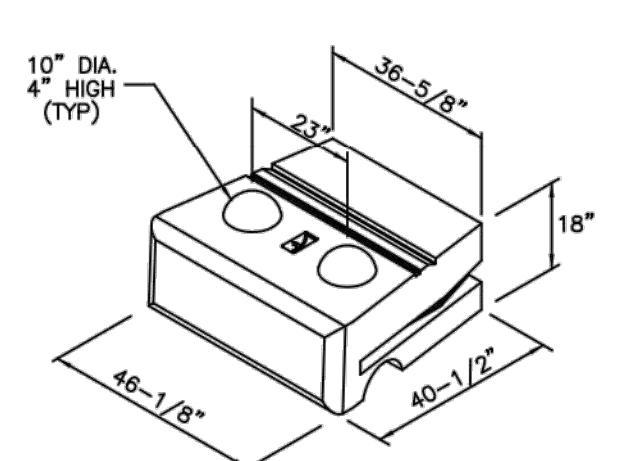
60" BOTTOM BLOCK  
NOT-TO-SCALE



60" MIDDLE BLOCK  
NOT-TO-SCALE



41" BOTTOM BLOCK  
NOT-TO-SCALE



41" MIDDLE BLOCK  
NOT-TO-SCALE

#### BLOCK SPECIFICATION NOTES:

1. ALL BLOCKS SHALL BE MANUFACTURED BY A LICENSED REDI-ROCK (TM) MANUFACTURER.
2. BLOCKS SHALL MEET THE MINIMUM REDI-ROCK SPECIFICATIONS OF 4000 psi WITH AN AIR CONTENT OF 4%-8%.
3. THE REDI-ROCK UNITS MAY UTILIZE EITHER THE SPLIT LESTONE OR COBBLESTONE FACE CONFIGURATION AS CHOSEN BY THE OWNER OR OWNER'S REPRESENTATIVE.

NOTE: HALF-BLOCKS HAVE THE SAME FEATURES AS SHOWN HERE FOR FULL BLOCKS BUT THEY ARE 23-1/16" WIDE, NOT THE FULL 46-1/8" WIDE.

#### GENERAL NOTES:

##### 1. SITE PREPARATION:

- 1.1. STRIP ALL VEGETATION, ORGANIC SOILS AND UNSUITABLE FILL SOILS FROM THE WALL ALIGNMENT AREA.
- 1.2. BENCH CUT ALL EXCAVATED SLOPES.
- 1.3. DO NOT OVER EXCAVATE UNLESS DIRECTED TO DO SO BY THE OWNER'S SITE REPRESENTATIVE IN ORDER TO REMOVE UNSUITABLE SOIL.
- 1.4. THE OWNER'S SITE REPRESENTATIVE SHALL VERIFY FOUNDATION SOILS AS BEING COMPETENT PER THE DESIGN STANDARDS AND PARAMETERS.

##### 2. LEVELING PAD & BOTTOM BLOCK:

- 2.1. WHERE THE LEVELING PAD IS CONSTRUCTED ON SUITABLE NATIVE SOILS IT SHALL CONSIST OF DENSE GRADED 3/4" CRUSHED STONE, 12" THICK AND EXTENDING 12" TO EITHER SIDE OF THE BASE BLOCK.
- 2.2. WHERE THE LEVELING PAD IS CONSTRUCTED ON GAP OR RAP PIERS THE LEVELING PAD MATERIAL SELECTION AND DESIGN IS THE RESPONSIBILITY OF THE GROUND IMPROVEMENT CONTRACTOR.
- 2.3. MINIMUM EMBEDMENT OF WALL BELOW FINISH GRADE SHALL BE AS INDICATED ON THE WALL FACE DRAWING.
- 2.4. FOLLOW APPLICABLE PROVISIONS OF THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WRITTEN SPECIFICATIONS, ESPECIALLY WITH REGARDS TO LEVELING OF BLOCKS AND BASE.

##### 3. WALL DRAIN:

- 3.1. DRAINAGE FILL SHALL CONSIST OF ASTM #57 SIZE CRUSHED STONE PLACED FOR A DEPTH OF AT LEAST 12" BEHIND THE WALL. A FILTER FABRIC SHALL BE PLACED OVER THE CUT OR FILL FACE BEHIND THE WALL TO PREVENT THE MIGRATION OF SOIL INTO THE DRAINAGE MATERIAL.
- 3.2. THE PERFORATED HDPE DRAINS SHALL OUTLET THROUGH THE WALL FACE AT OR NEAR THE LOCATIONS SHOWN ON THE WALL FACE DRAWING.
- 3.3. PLACE A FILTER FABRIC (MIRAFI 140N, OR EQUAL) OVER THE DRAINAGE MATERIAL TO MINIMIZE SOIL MIGRATION FROM THE SURFACE MATERIAL (TOPSOIL OR IMPERVIOUS) INTO THE DRAINAGE MATERIAL.

##### 4. BACKFILLING & COMPACTION:

- 4.1. BACKFILL AND COMPACT THE FILL MATERIAL BEHIND THE WALL AS THE WALL IS INSTALLED.
- 4.2. COMPACTION TESTS SHALL BE TAKEN AS THE WALL IS INSTALLED. THE MINIMUM NUMBER OF TESTS SHALL BE DETERMINED BY THE OWNER'S SITE REPRESENTATIVE.
- 4.3. COMPACTION SHALL BE TO A MINIMUM OF 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY.
- 4.4. RECOMMENDED COMPACTION EQUIPMENT WITHIN 15 FEET OF THE BACK OF THE WALL IS AS FOLLOWS:  
0 - 4 FEET HAND TAMP OR VIBRATORY PLATE COMPACTOR  
4 - 15 FEET NOTHING LARGER THAN TWO-DRUM, WALK-BEHIND VIBRATORY ROLLER (LARGER ROLLERS CAN BE USED STATICALLY, PROVIDED LIFT SIZE DOES NOT COMPROMISE ACHIEVEMENT OF NECESSARY COMPACTION RATES.)

##### 5. GENERAL WALL LAYOUT & CONSTRUCTION:

- 5.1. FINAL WALL ALIGNMENT SHALL BE LOCATED IN THE FIELD BY THE OWNER'S SITE REPRESENTATIVE.
- 5.2. PROVIDE LATERAL DRAINAGE SWALES TO DIRECT FLOWS AROUND THE ENDS OF THE WALL AND AWAY FROM THE WALL DURING CONSTRUCTION. DO NOT CONSTRUCT A SWALE BEHIND THE WALL AS PART OF THE FINISHED WALL GRADE ABOVE THE WALL SO THAT WATER FLOWS OVER THE WALL FACE OR TO A POINT AT LEAST AS FAR BEHIND THE WALL AS THE WALL HEIGHT.
- 5.3. TURF, OR SOME ACCEPTABLE FORM OF SOIL EROSION PROTECTION, SHOULD BE ESTABLISHED AT THE TOP OF THE WALL (WHERE REQUIRED) BY THE LANDSCAPE CONTRACTOR AS SOON AS THE WALL IS COMPLETED.
- 5.4. ENDS OF THE RETAINING WALLS SHALL BE BLENDED INTO THE PROPOSED/EXISTING GRADE IN A MANNER SATISFACTORY TO THE OWNER'S SITE REPRESENTATIVE. AT THE ENDS OF A WALL WHERE BLENDING TAKES PLACE, THE ISSUE IS NOT A STRUCTURAL FACTOR BUT AN AESTHETIC FACTOR AND THE OWNER'S SITE REPRESENTATIVE IS QUALIFIED TO MAKE THIS JUDGEMENT.
- 5.5. ADHERE CAPS WITH A MINIMUM OF TWO 3/8" DIAMETER BEADS OF CONSTRUCTION ADHESIVE SUCH AS TITEBOND HEAVY DUTY CONSTRUCTION ADHESIVE BY FRANKLIN INTERNATIONAL. MORTAR CEMENT CAN ALSO BE USED.
- 5.6. IF CONDITIONS ARE DIFFERENT THAN THOSE STATED IN THESE DRAWINGS AND SPECIFICATIONS, THE CONTRACTOR MUST CONTACT THE DESIGN ENGINEER PRIOR TO PROCEEDING WITH THE CONSTRUCTION OF THE WALL.
- 5.7. THESE WALLS HAVE BEEN DESIGNED WITH CONSIDERATION OF SEISMIC LOADINGS.
- 5.8. WALL CERTIFICATIONS: OCCASIONALLY A "SIGN OFF" BY THE DESIGN ENGINEER IS NEEDED AFTER COMPLETION OF WALL CONSTRUCTION. IF THIS SERVICE IS NEEDED ARRANGEMENTS MUST BE MADE WITH THE DESIGN ENGINEER PRIOR TO WALL CONSTRUCTION FOR A SERIES OF SITE VISITS TO OBSERVE WALL CONSTRUCTION. ACCEPTANCE LETTERS, SIGN OFFS, CERTIFICATIONS, WARRANTIES, ETC. WILL NOT BE PROVIDED WITHOUT PERIODIC SITE VISITS.
- 5.9. THE BARRIER WALL IS BASED ON DATA PROVIDED BY REDI-ROCK INTERNATIONAL. SEE TEST DATA FOR THE "POURED IN PLACE CONCRETE BEAM" METHOD IN THE REDI-ROCK DESIGN RESOURCE MANUAL.

IT IS THE RESPONSIBILITY OF THE INSTALLER TO REVIEW THE NOTES AND DETAILS ON ALL SHEETS OF THIS PLAN SET

#### NOTE:

THIS PLAN IS FOR GENERAL DESIGN INFO ONLY AND TO DEMONSTRATE THAT THE PROPOSED RETAINING WALL SYSTEM WILL WORK WITHIN THE SITE CONSTRAINTS AS INTENDED. CONTRACTOR SHALL PROVIDE STAMPED FINAL DESIGN OF THE RETAINING WALL SYSTEMS WITH VEHICLE FORCE PROTECTION OBTAINED FROM THE GEOTECHNICAL RECOMMENDATIONS. RETAINING WALL SYSTEM SHALL BE BY REDI ROCK WITH NO EXCEPTIONS.

APPROVED BY THE NEWINGTON  
TOWN PLAN AND ZONING COMMISSION

PETITION NO. 38-12, 39-12, 40-12

AT THE MEETING OF: 4/10/13

CHAIRMAN:

DATE:

APPROVED BY THE NEWINGTON  
CONSERVATION COMMISSION

PETITION NO. 2012-28

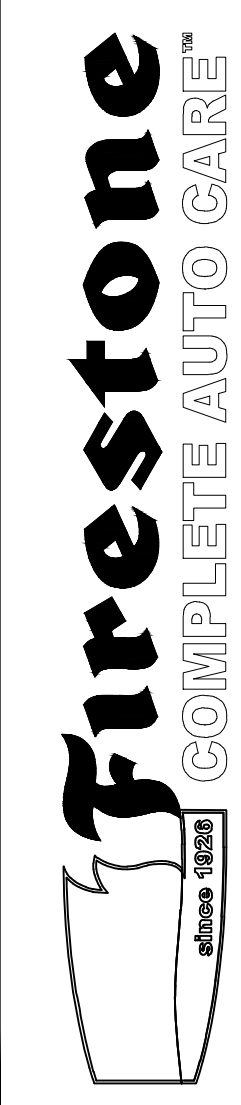
AT THE MEETING OF: 12/18/12

CHAIRMAN:

DATE:



Vanasse Hangen Brustlin, Inc.



FIRESTONE COMPLETE AUTO CARE  
2903 BERLIN TURNPIKE  
NEWINGTON, CT 06111  
OWNER: WEX-TUCK REALTY, L.L.C.  
121 PARK STREET  
NEW CANAAN, CT 06840



ZONE APPROVAL (BY/DATE):

VP. \_\_\_\_\_  
CONTR. \_\_\_\_\_  
RM. \_\_\_\_\_  
CM. \_\_\_\_\_

PROPERTY NO.: 000000  
6 DIGIT NO.: 000000  
4 DIGIT NO.: 0000

AOR PROJECT NUMBER: xxxxxx  
LOCAL APPROVALS: DATE: 11-26-12  
TOWN COMMENTS: DATE: 01-22-13  
TOWN COMMENTS: DATE: 04-19-13  
TOWN COMMENTS: DATE: 05-08-13

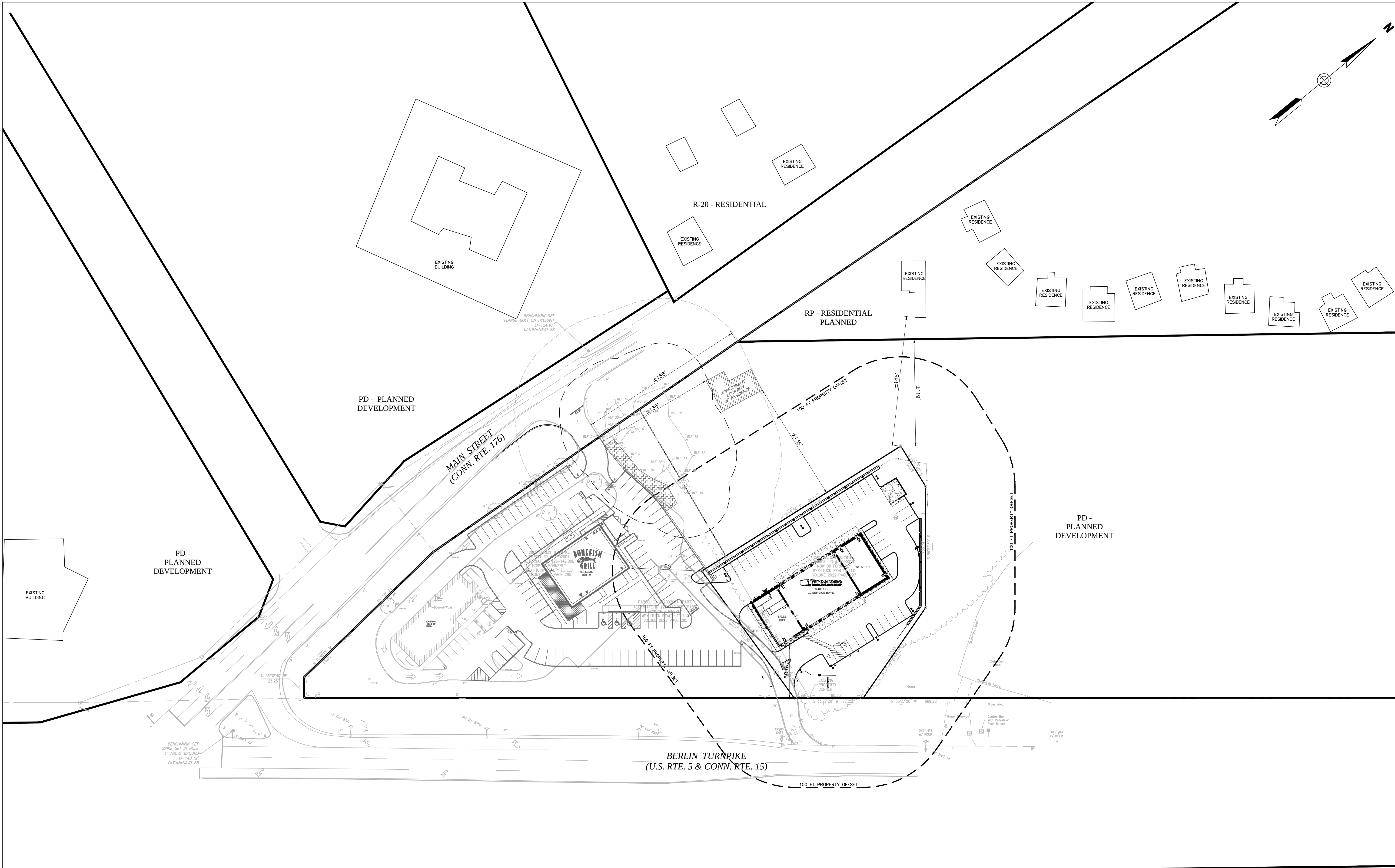
SHEET TITLE:

SITE DETAILS 5

SHEET NUMBER:

C-11





NOTE:  
ZONING BOUNDARIES SHOWN ARE BASED ON  
OVERLAY OF TOWN ZONING MAP. EXISTING  
BUILDING SHOWN OUTSIDE OF THE PROPERTY  
LIMITS ARE BASED ON AERIAL IMAGES.

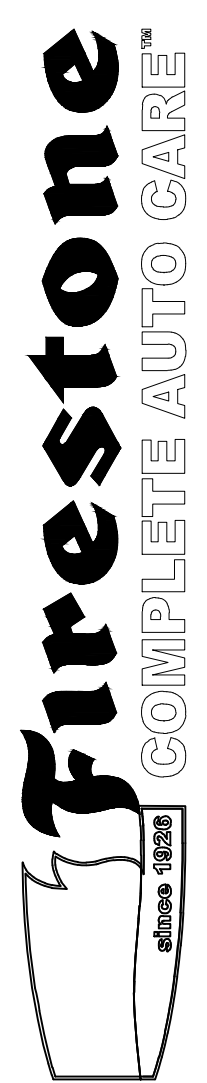
APPROVED BY THE NEWINGTON  
TOWN PLAN AND ZONING COMMISSION  
PETITION NO. 38-12, 39-12, 40-12  
AT THE MEETING OF: 4/10/13  
CHAIRMAN: \_\_\_\_\_  
DATE: \_\_\_\_\_

APPROVED BY THE NEWINGTON  
CONSERVATION COMMISSION  
PETITION NO. 2012-28  
AT THE MEETING OF: 12/18/12  
CHAIRMAN: \_\_\_\_\_  
DATE: \_\_\_\_\_





Vanasse Hangen Brustlin, Inc.



COMPLETE AUTO CARE™

FIRESTONE COMPLETE AUTO CARE  
2903 BERLIN TURNPIKE  
NEWINGTON, CT 06111  
OWNER: WEX-TUCK REALTY, L.L.C.  
121 PARK STREET  
NEW CANAAN, CT 06840

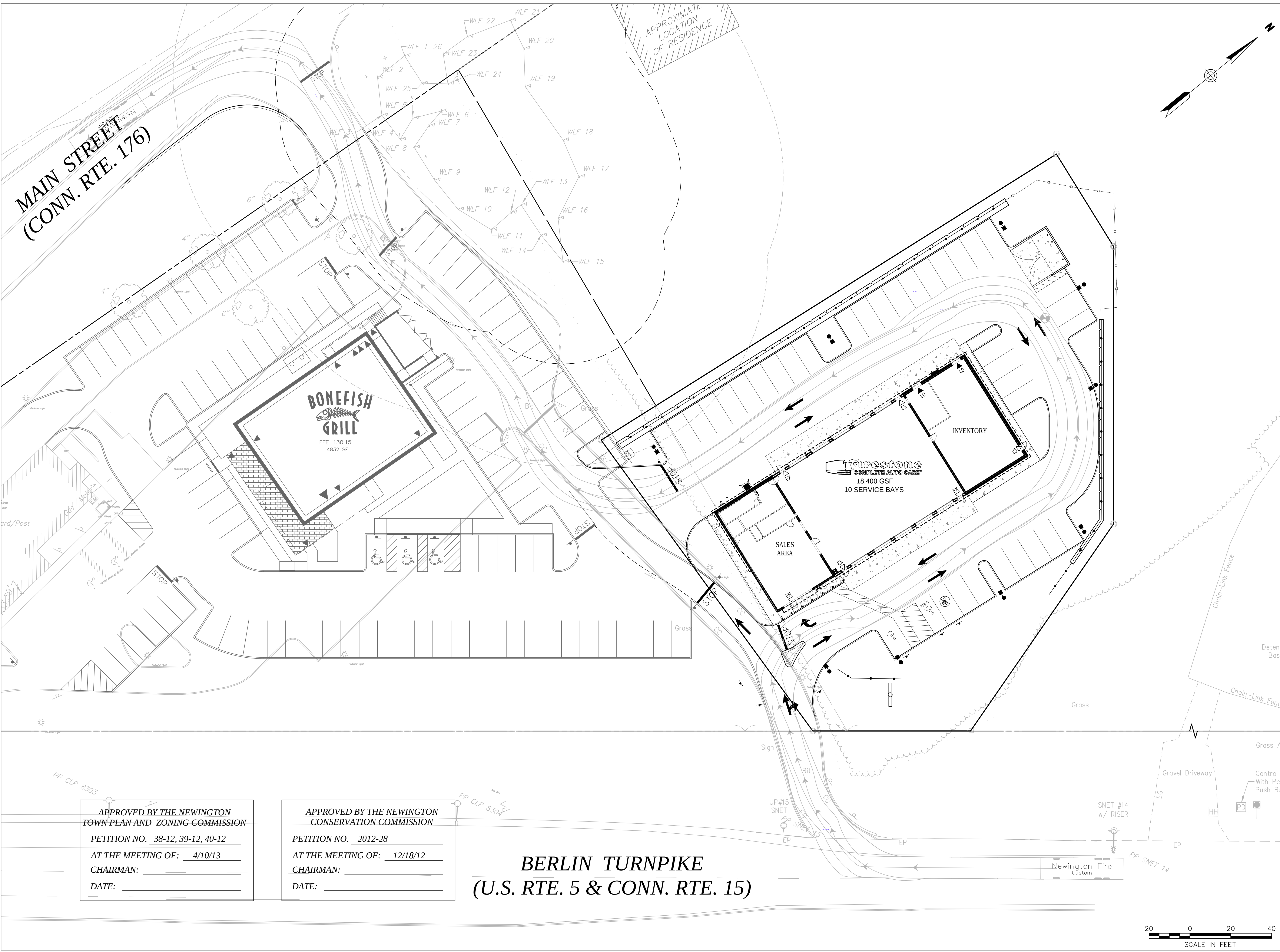


|                     |                |
|---------------------|----------------|
| ZONE APPROVAL       | (BY/DATE):     |
| VP.                 | _____          |
| CONTR.              | _____          |
| RM.                 | _____          |
| CM.                 | _____          |
| PROPERTY NO.:       | 000000         |
| 6 DIGIT NO.:        | 000000         |
| 4 DIGIT NO.:        | 0000           |
| AOR PROJECT NUMBER: | xxxxxxx        |
| LOCAL APPROVALS:    | DATE: 11-26-12 |
| TOWN COMMENTS:      | DATE: 01-22-13 |
| TOWN COMMENTS:      | DATE: 04-19-13 |
| TOWN COMMENTS:      | DATE: 05-08-13 |
| FENCE ADDED:        | DATE: 02-18-20 |

SHEET TITLE:  
SITE LOCATION  
PLAN

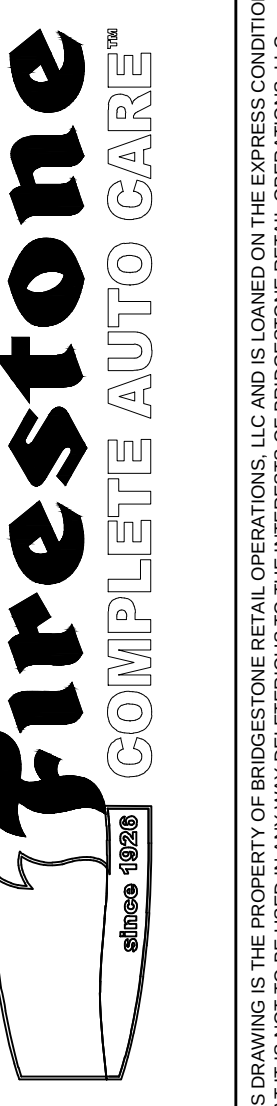
SHEET NUMBER:  
**SLP-1**







Vanasse Hangen Brustlin, Inc.



**Firestone**  
COMPLETE AUTO CARE

**FIRESTONE COMPLETE AUTO CARE**  
2903 BERLIN TURNPIKE  
NEWINGTON, CT 06111  
OWNER: WEX-TUCK REALTY, L.L.C.  
121 PARK STREET  
NEW CANAAN, CT 06840



STATE OF CONNECTICUT  
PAUL VITALIANO  
22827  
LICENSED PROFESSIONAL ENGINEER  
1/2020

| ZONE APPROVAL (BY/DATE): |  |
|--------------------------|--|
| VP.                      |  |
| CONTR.                   |  |
| RM.                      |  |
| CM.                      |  |

|                             |          |
|-----------------------------|----------|
| PROPERTY NO.:               | 000000   |
| 6 DIGIT NO.:                | 000000   |
| 4 DIGIT NO.:                | 0000     |
| AOR PROJECT NUMBER: xxxxxxx |          |
| LOCAL APPROVALS: DATE:      | 11-26-12 |
| TOWN COMMENTS: DATE:        | 01-22-13 |
| TOWN COMMENTS: DATE:        | 04-19-13 |
| TOWN COMMENTS: DATE:        | 05-08-13 |
| FENCE ADDED: DATE:          | 02-18-20 |

SHEET TITLE:

**FIRE TRUCK TURNING PLAN**

SHEET NUMBER:

**FT-1**

APPROVED BY THE NEWINGTON  
TOWN PLAN AND ZONING COMMISSION

PETITION NO. 38-12, 39-12, 40-12

AT THE MEETING OF: 4/10/13

CHAIRMAN: \_\_\_\_\_

DATE: \_\_\_\_\_

APPROVED BY THE NEWINGTON  
CONSERVATION COMMISSION

PETITION NO. 2012-28

AT THE MEETING OF: 12/18/12

CHAIRMAN: \_\_\_\_\_

DATE: \_\_\_\_\_

**BERLIN TURNPIKE**  
**(U.S. RTE. 5 & CONN. RTE. 15)**

20 0 20 40  
SCALE IN FEET