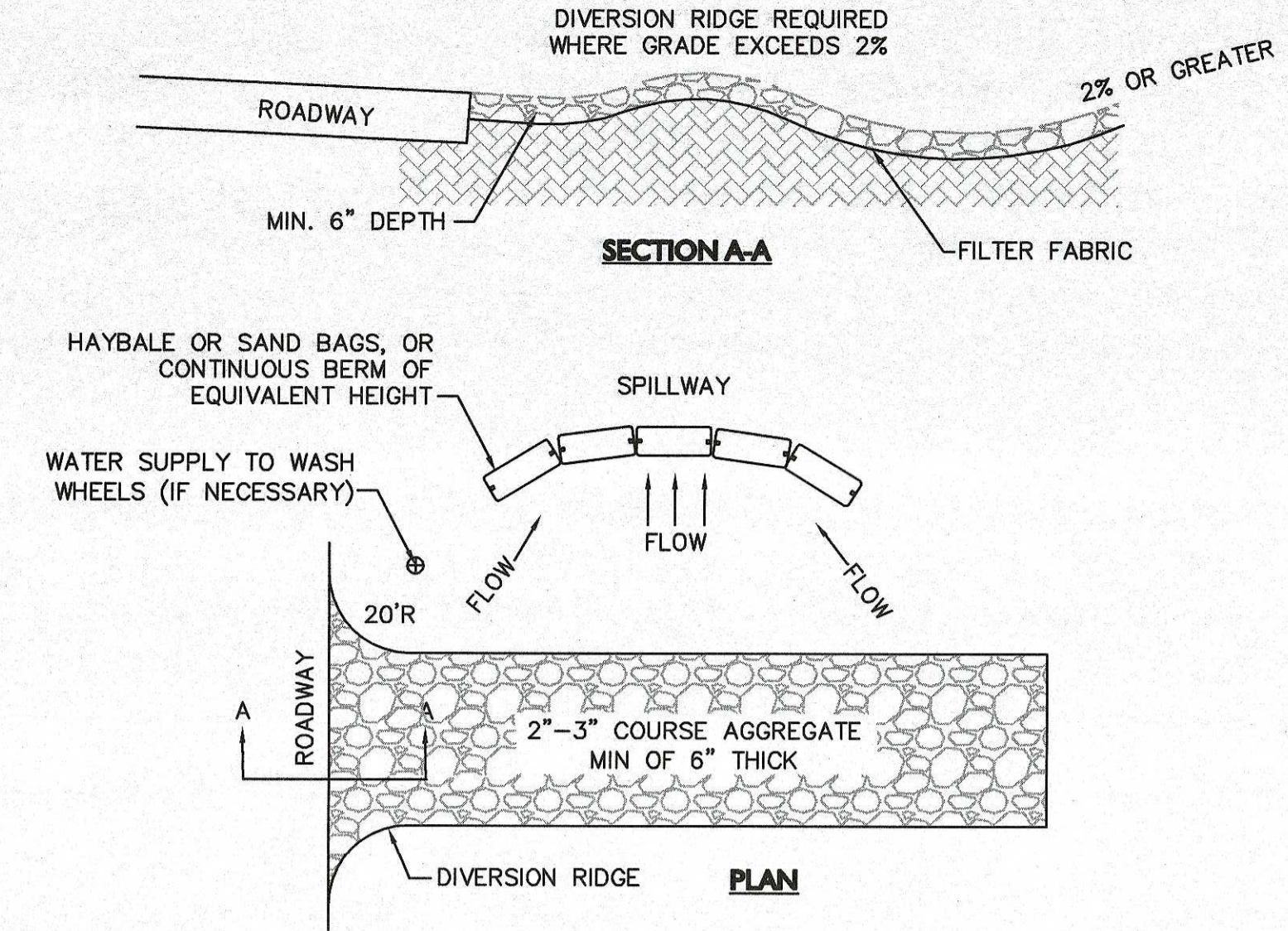
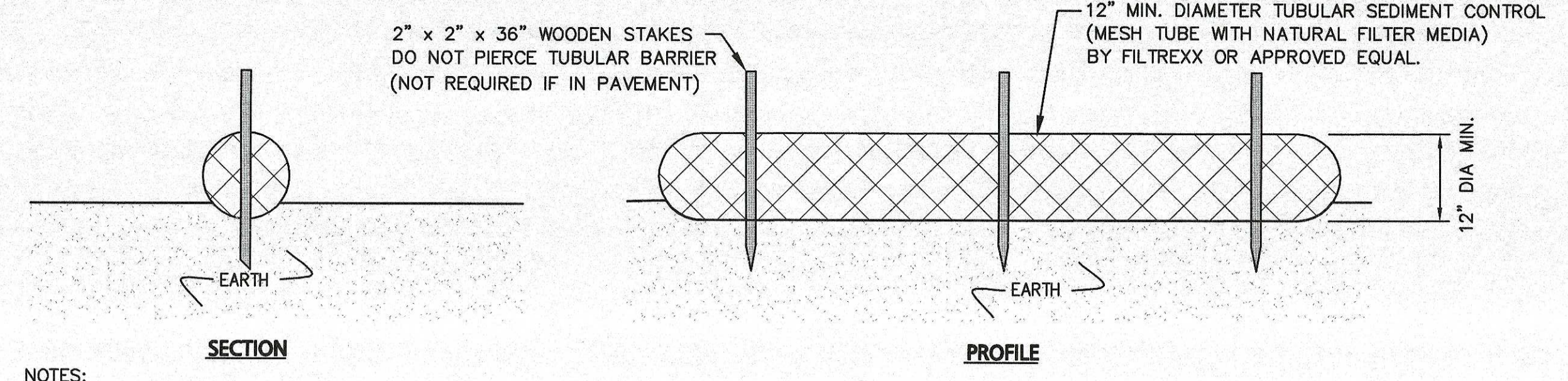


- NOTES:**
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
 2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTERING THE PUBLIC RIGHT-OF-WAY.
 3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
 4. USE SANDBAGS, HAYBALES, OR OTHER APPROVED METHODS TO CHANNELIZE RUNOFF TO BASIN AS REQUIRED.
 5. SEE EROSION CONTROL PLAN FOR PAD DIMENSIONS AND LOCATION.

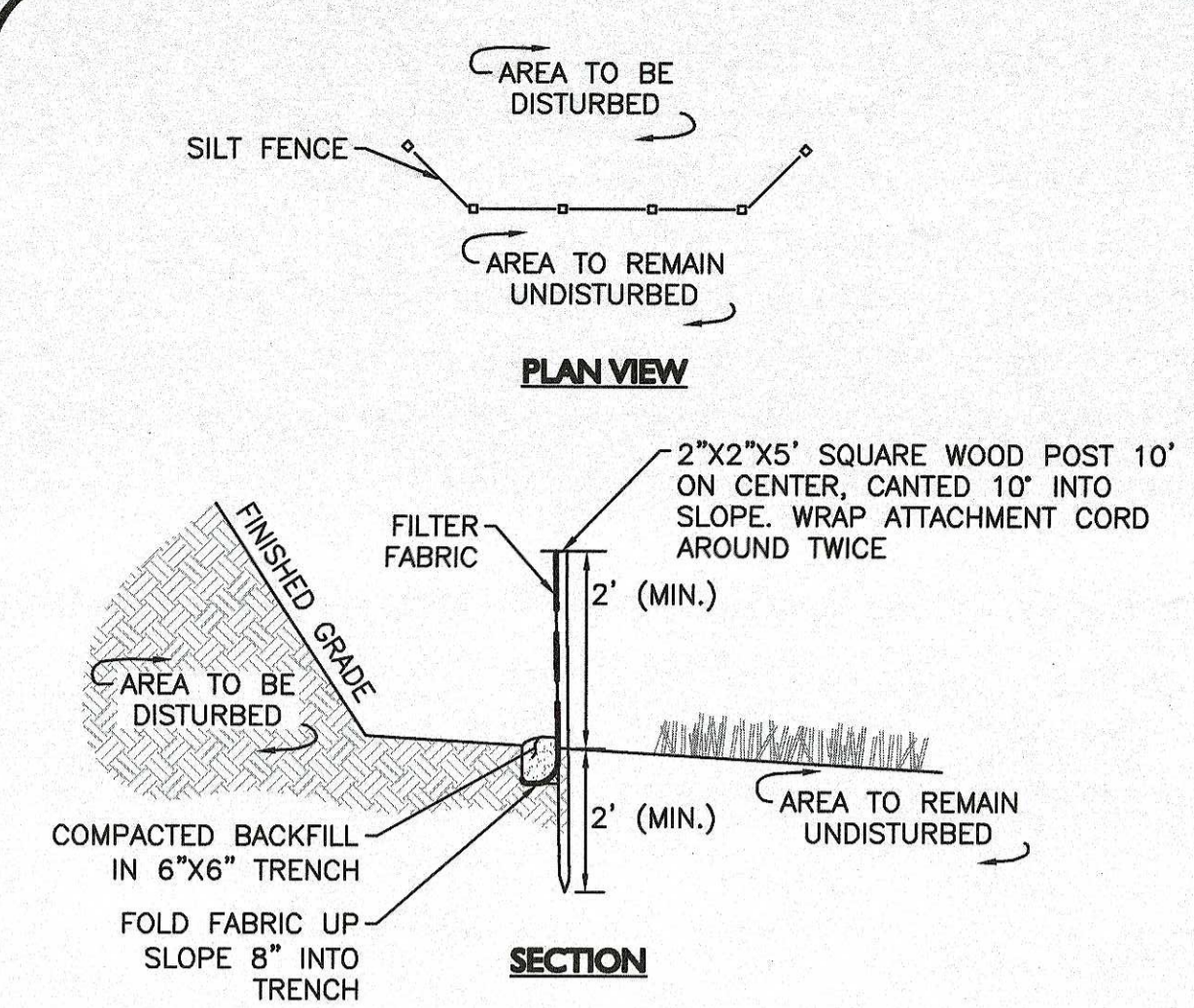


TEMPORARY CONSTRUCTION ENTRANCE/TRACKING PAD
NOT TO SCALE



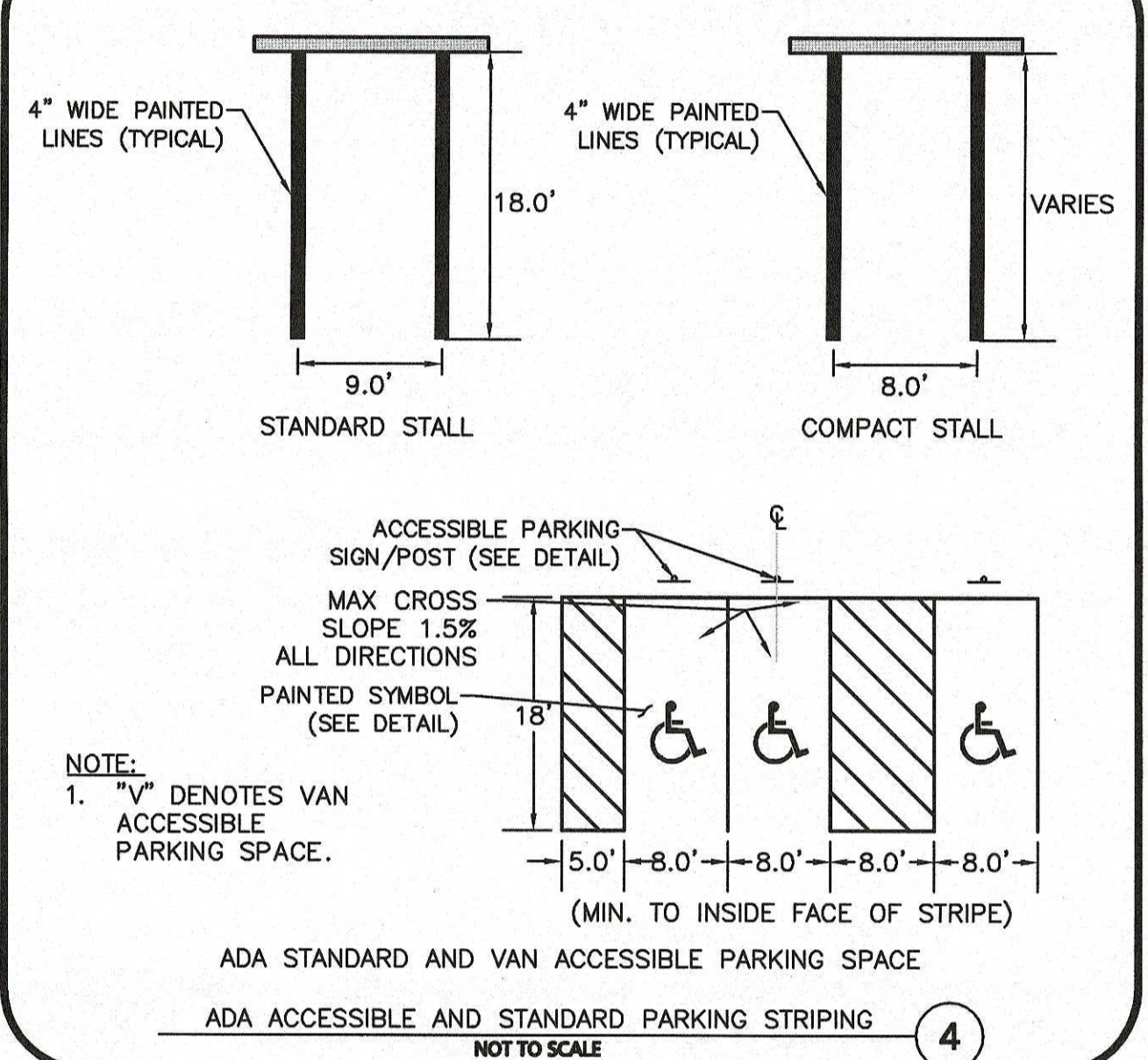
- NOTES:**
1. ALL MATERIALS TO MEET MANUFACTURERS SPECIFICATIONS.
 2. INSTALL WOODEN STAKES IN A CRISS-CROSS PATTERN EVERY 8' ON CENTER.
 3. THE CONTRACTOR SHALL MAINTAIN THE TUBULAR BARRIERS IN A FUNCTIONAL CONDITION AT ALL TIMES. THE CONTROLS SHALL BE ROUTINELY INSPECTED BY THE CONTRACTOR.
 4. WHERE THE TUBULAR BARRIERS REQUIRE REPAIR OR SEDIMENT REMOVAL, IT WILL BE COMPLETED BY THE CONTRACTOR AT NO ADDITIONAL COST.
 5. AT A MINIMUM, THE CONTRACTOR SHALL REMOVE SEDIMENTS COLLECTED AT THE BASE WHEN THEY REACH 1/3 THE EXPOSED HEIGHT OF THE BARRIER.

TUBULAR SEDIMENT BARRIER DETAIL
NOT TO SCALE

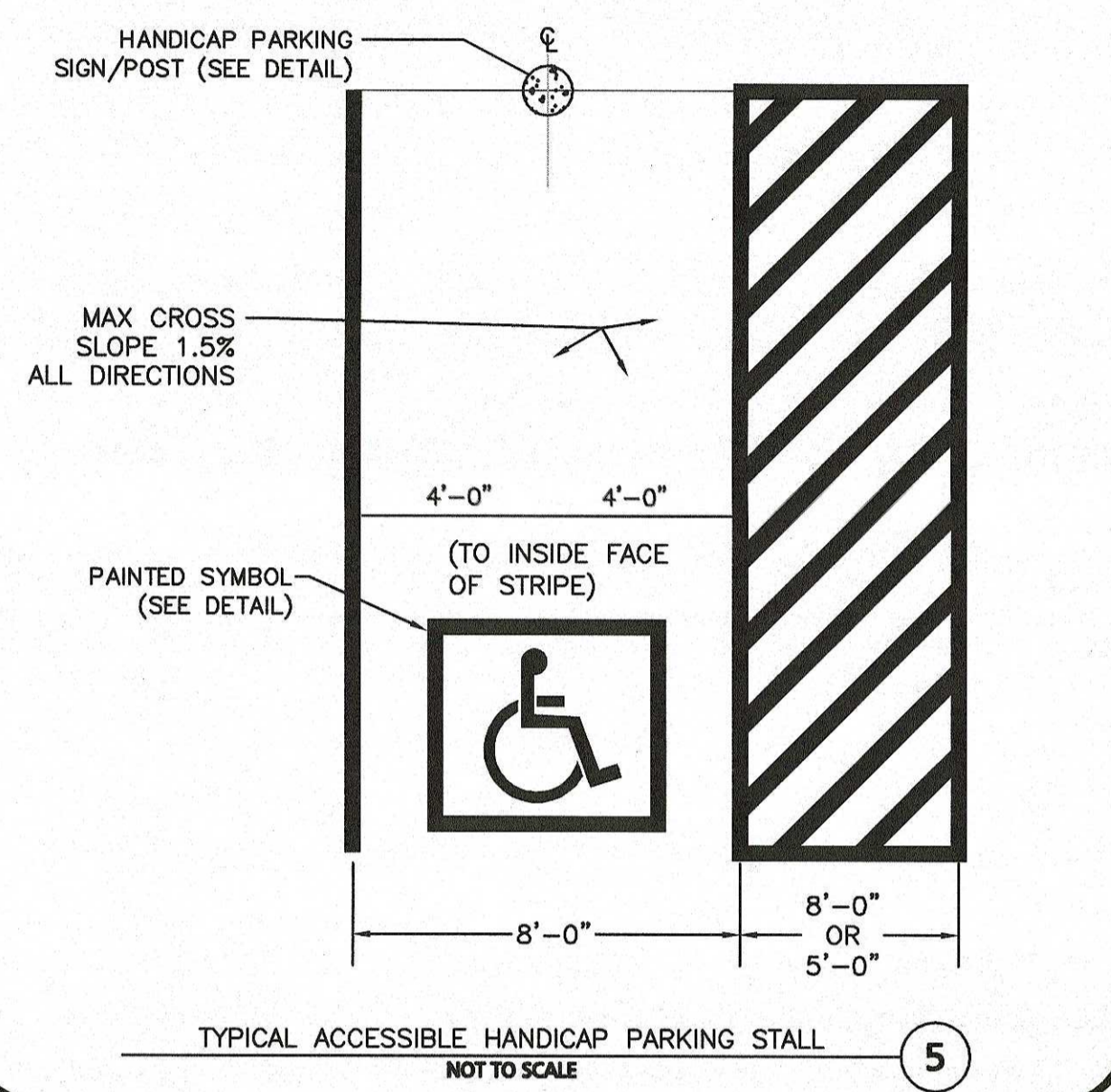


- NOTE:**
DEPTH TO BE 2' UNLESS POST IS TO BE SET IN PEAT THEN 3' OR DEPTH POSSIBLE BY PUSHING BY HAND SHALL BE REQUIRED.

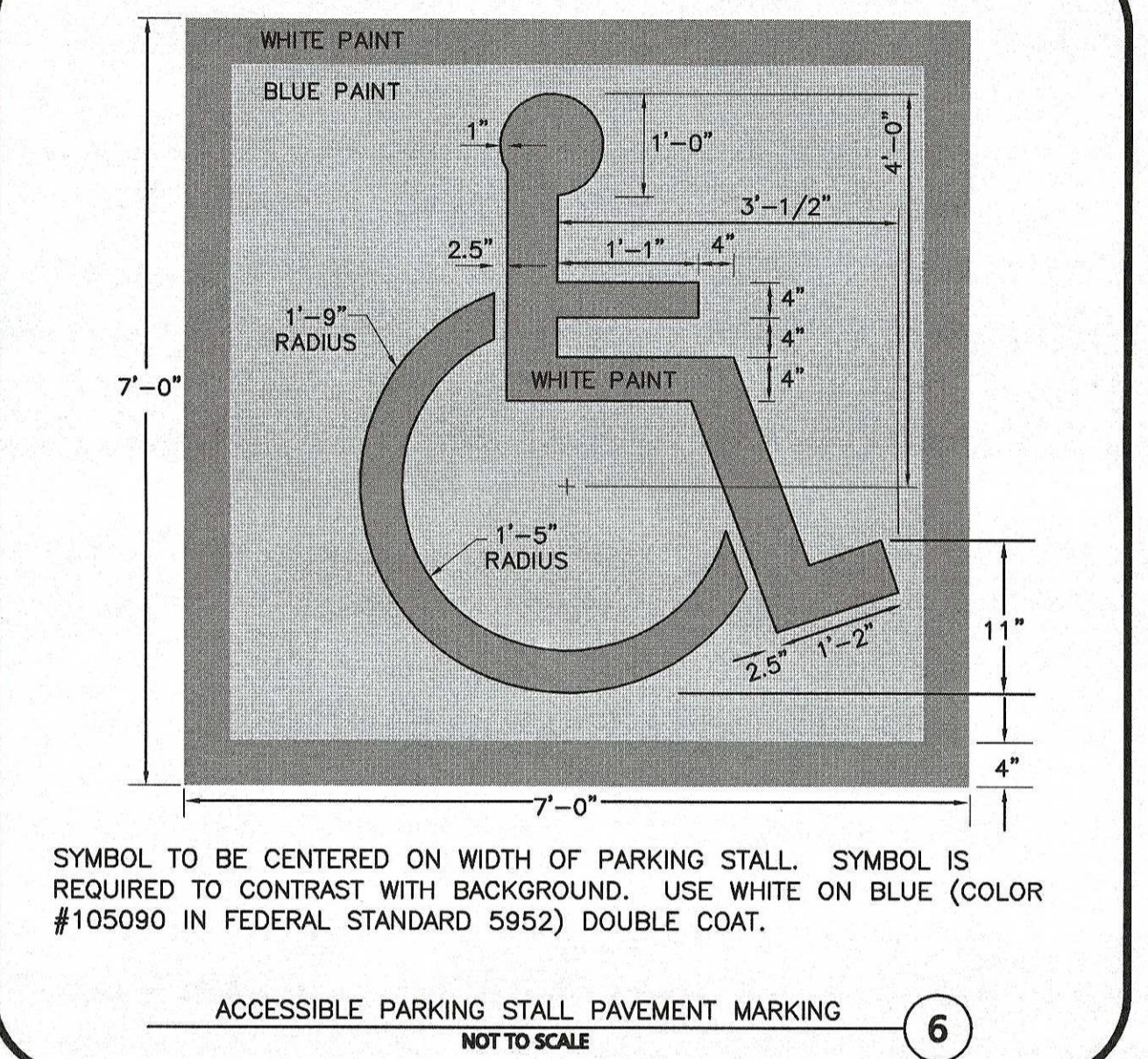
SILT FENCE
NOT TO SCALE



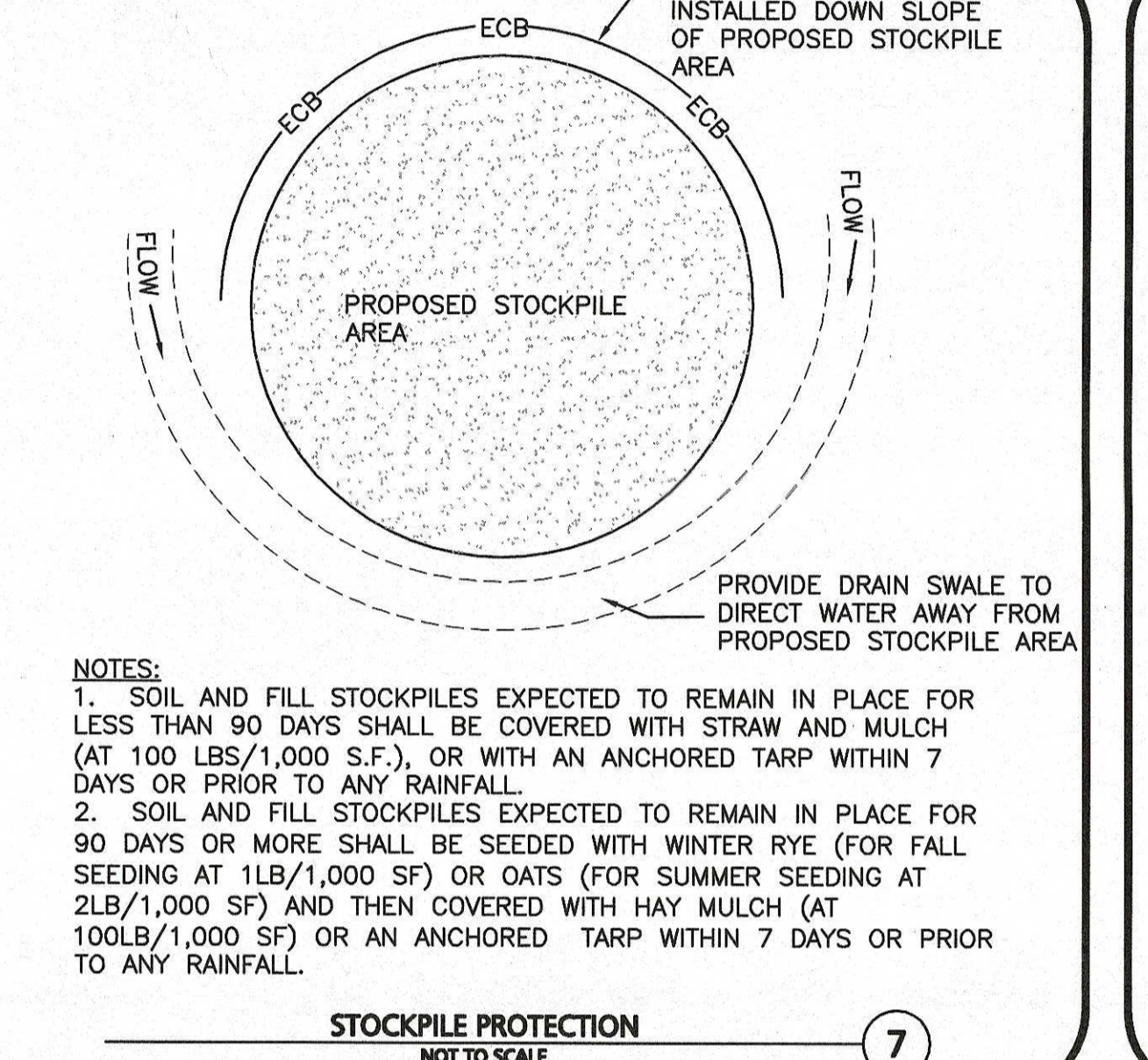
ADA STANDARD AND VAN ACCESSIBLE PARKING STRIPING
NOT TO SCALE



TYPICAL ACCESSIBLE HANDICAP PARKING STALL
NOT TO SCALE

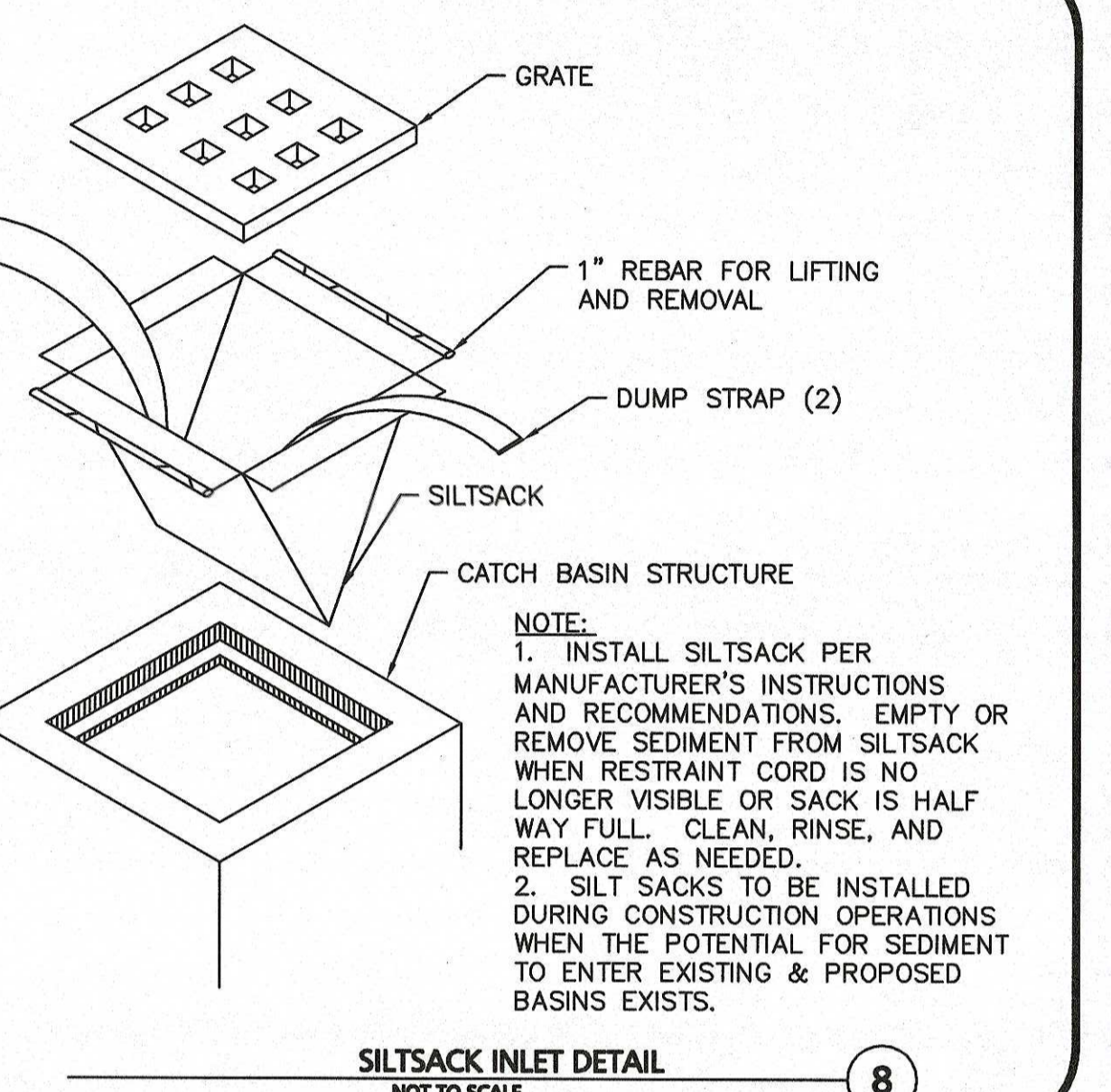


ACCESSIBLE PARKING STALL PAVEMENT MARKING
NOT TO SCALE



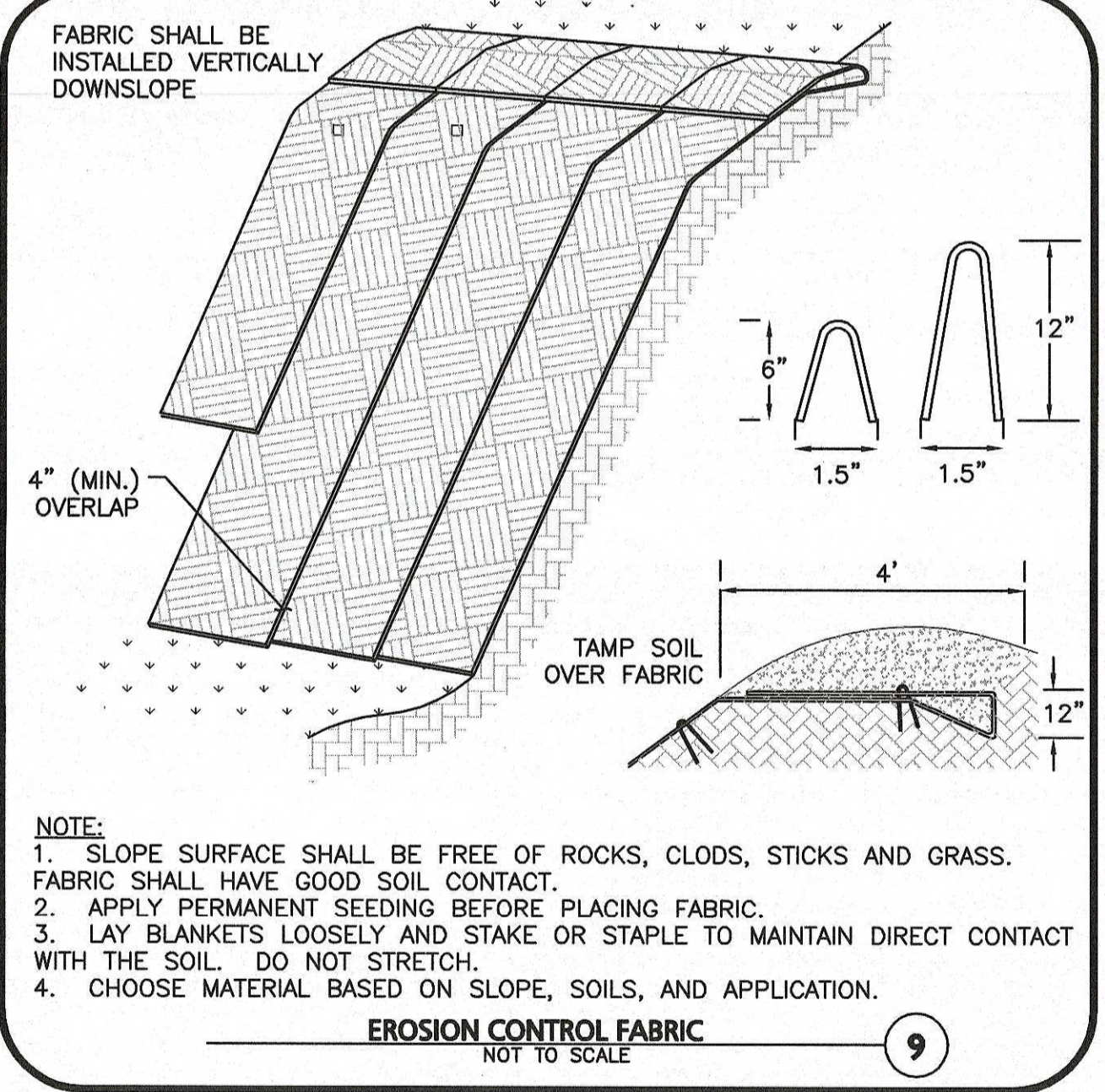
- NOTES:**
1. SOIL AND FILL STOCKPILES EXPECTED TO REMAIN IN PLACE FOR LESS THAN 90 DAYS SHALL BE COVERED WITH STRAW AND MULCH (AT 100 LBS/1,000 S.F.), OR WITH AN ANCHORED TARP WITHIN 7 DAYS OR PRIOR TO ANY RAINFALL.
 2. SOIL AND FILL STOCKPILES EXPECTED TO REMAIN IN PLACE FOR 90 DAYS OR MORE SHALL BE SEED WITH WINTER RYE (FOR FALL SEEDING AT 1LB/1,000 SF) OR OATS (FOR SUMMER SEEDING AT 2LB/1,000 SF) AND THEN COVERED WITH HAY MULCH (AT 100LB/1,000 SF) OR AN ANCHORED TARP WITHIN 7 DAYS OR PRIOR TO ANY RAINFALL.

STOCKPILE PROTECTION
NOT TO SCALE



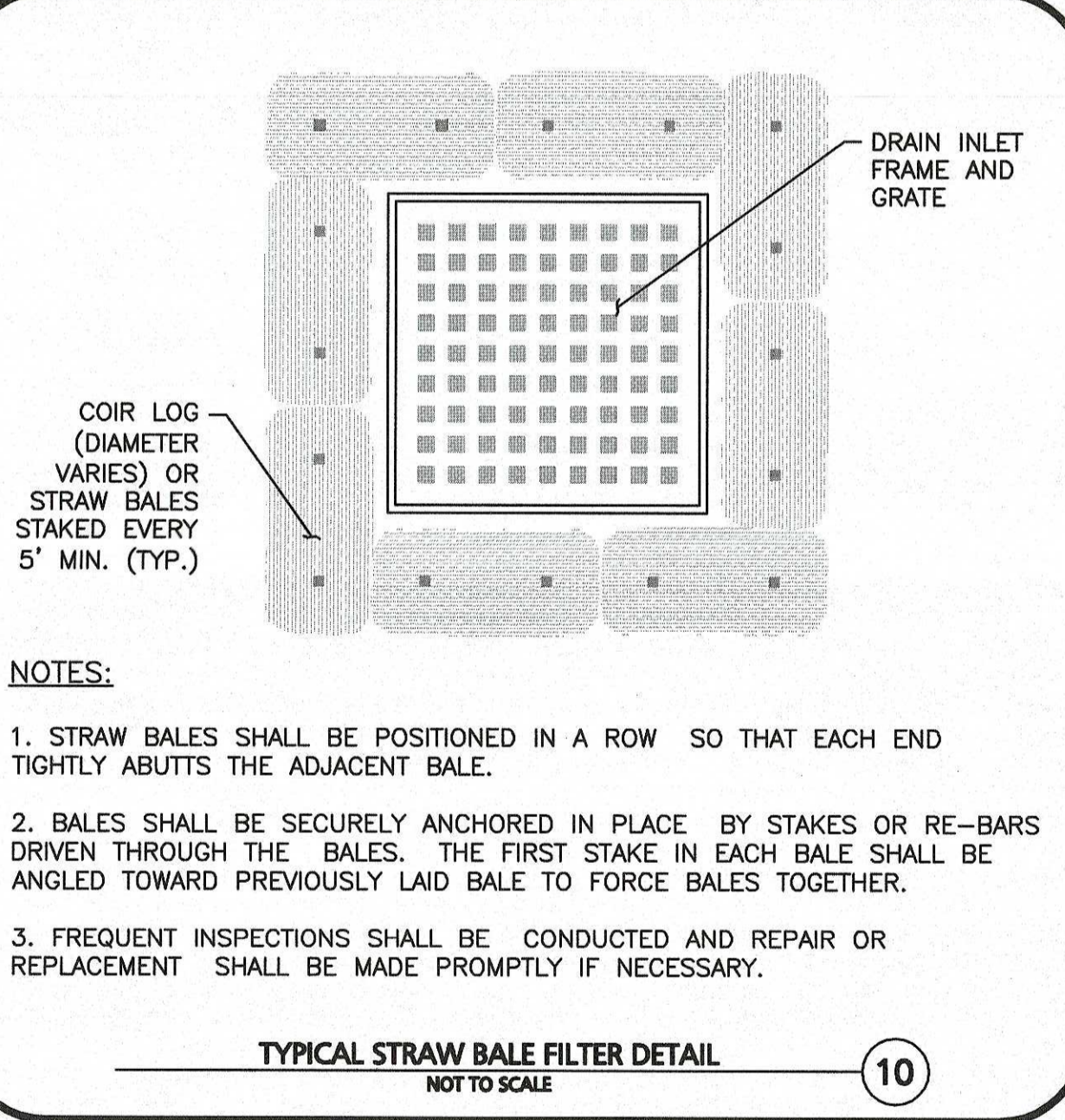
- NOTE:**
1. INSTALL SILTSACK PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. EMPTY OR REMOVE SEDIMENT FROM SILTSACK WHEN RESTRAINT CORD IS NO LONGER VISIBLE OR SACK IS HALF WAY FULL. CLEAN, RINSE, AND REPLACE AS NEEDED.
 2. SILT SACKS TO BE INSTALLED DURING CONSTRUCTION OPERATIONS WHEN THE POTENTIAL FOR SEDIMENT TO ENTER EXISTING & PROPOSED BASINS EXISTS.

SILTSACK INLET DETAIL
NOT TO SCALE



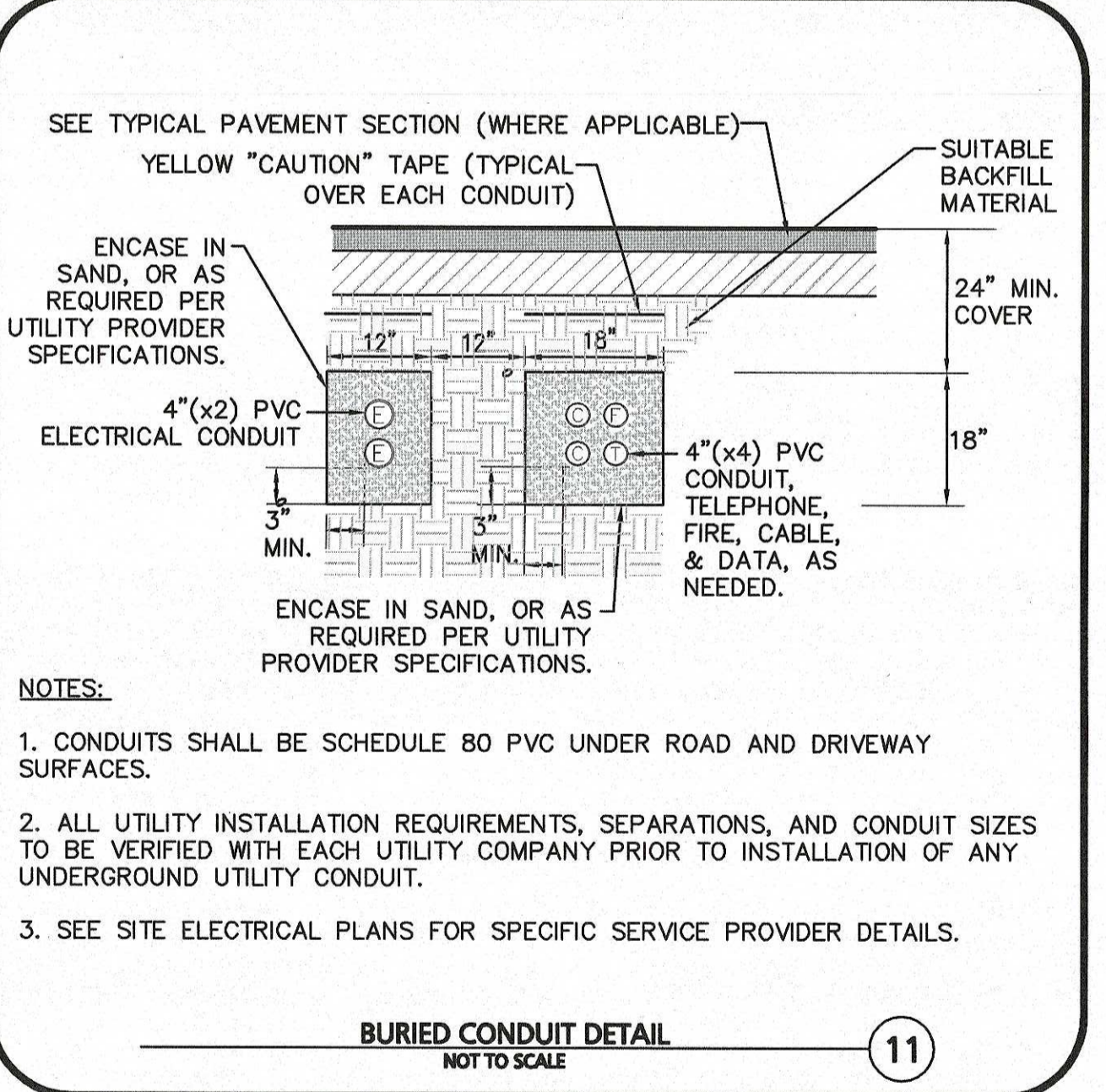
- NOTE:**
1. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. FABRIC SHALL HAVE GOOD SOIL CONTACT.
 2. APPLY PERMANENT SEEDING BEFORE PLACING FABRIC.
 3. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
 4. CHOOSE MATERIAL BASED ON SLOPE, SOILS, AND APPLICATION.

EROSION CONTROL FABRIC
NOT TO SCALE



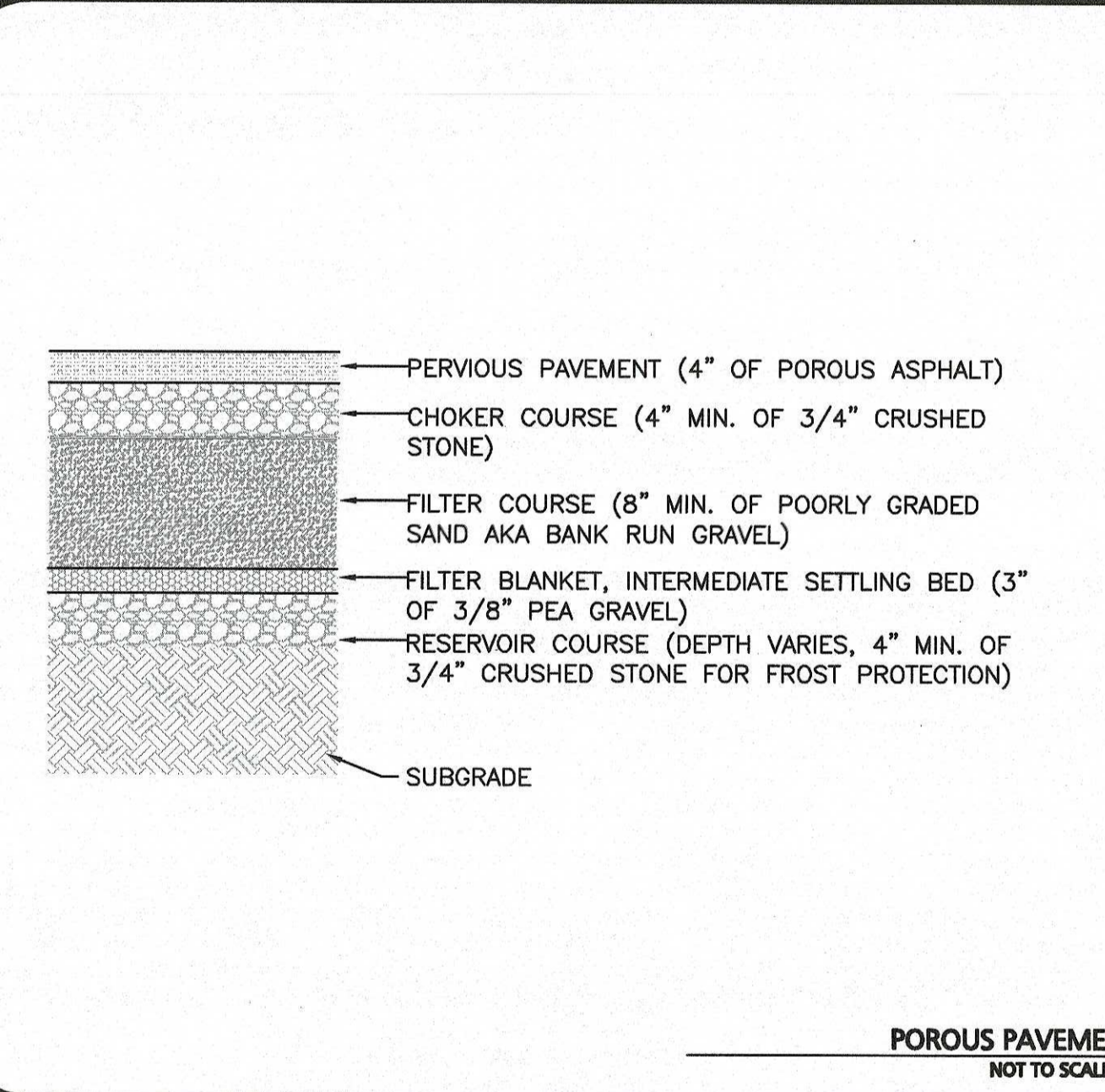
- NOTES:**
1. STRAW BALES SHALL BE POSITIONED IN A ROW SO THAT EACH END TIGHTLY ABUTS THE ADJACENT BALE.
 2. BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR RE-BARS DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
 3. FREQUENT INSPECTIONS SHALL BE CONDUCTED AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY IF NECESSARY.

TYPICAL STRAW BALE FILTER DETAIL
NOT TO SCALE



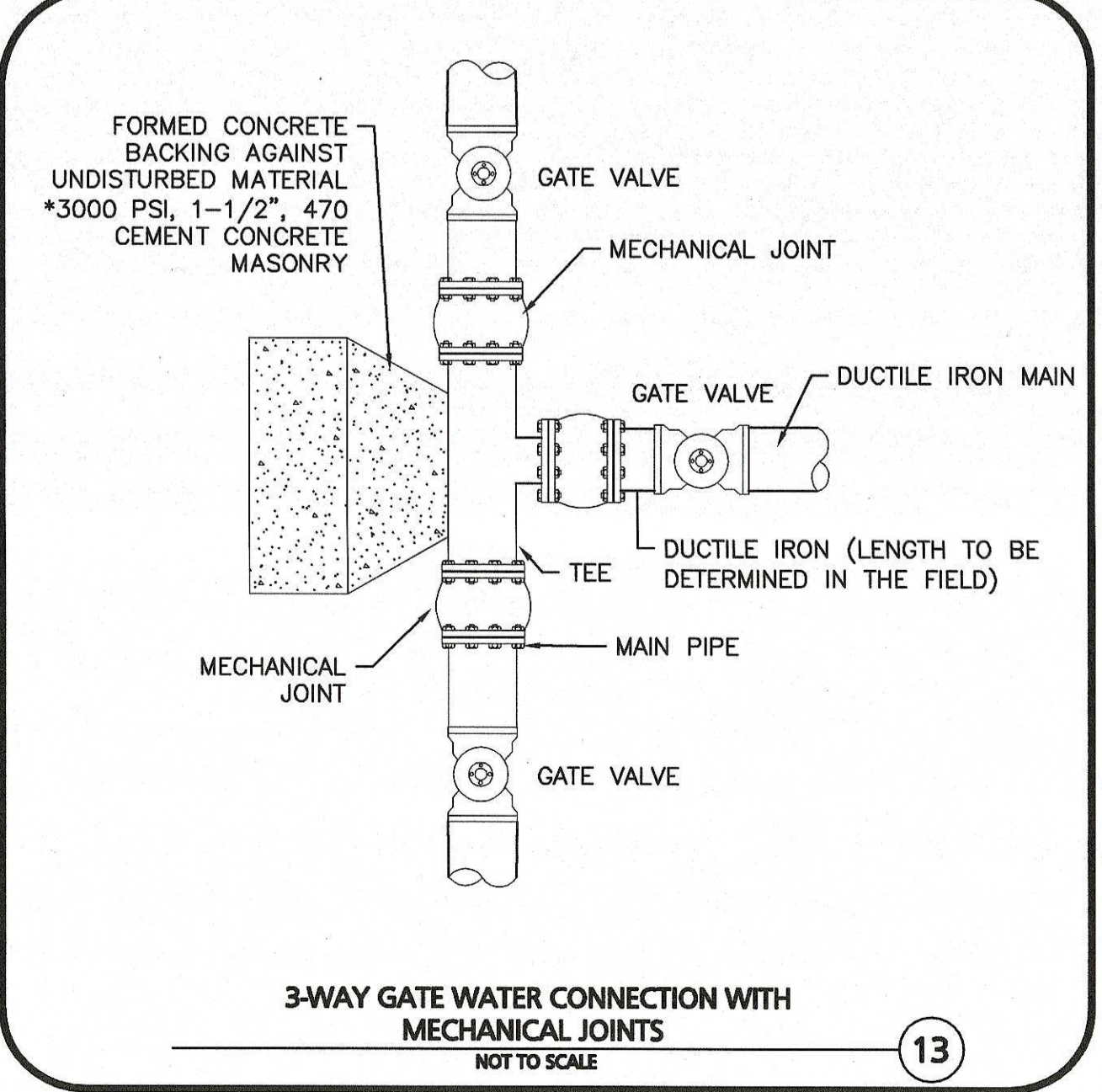
- NOTES:**
1. CONDUITS SHALL BE SCHEDULE 80 PVC UNDER ROAD AND DRIVEWAY SURFACES.
 2. ALL UTILITY INSTALLATION REQUIREMENTS, SEPARATIONS, AND CONDUIT SIZES TO BE VERIFIED WITH EACH UTILITY COMPANY PRIOR TO INSTALLATION OF ANY UNDERGROUND UTILITY CONDUIT.
 3. SEE SITE ELECTRICAL PLANS FOR SPECIFIC SERVICE PROVIDER DETAILS.

BURIED CONDUIT DETAIL
NOT TO SCALE



- NOTES:**
1. POROUS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE UNIVERSITY OF NEW HAMPSHIRE STORMWATER CENTER'S DESIGN SPECIFICATIONS FOR POROUS ASPHALT PAVEMENT AND INFILTRATION BEDS REVISED THROUGH OCTOBER 2009.
 2. THE ASPHALT MIX DESIGN SHALL BE EITHER:
A. PRE-BLENDED PG 64-28 MODIFIED WITH SBS, AS DESCRIBED IN THE UNHSC SPECIFICATION.
B. POST-BLENDED PG 64-28 MODIFIED WITH SBR, AS DESCRIBED IN THE UNHSC SPECIFICATION.
 3. ALL POROUS PAVEMENT SHALL BE CLEANED WITH A VACUUM SWEEPER ONCE ALL PROJECT COMPONENTS HAVE BEEN INSTALLED AND STABILIZED.
 4. SEE LAYOUT & MATERIALS PLANS FOR LOCATIONS.

POROUS PAVEMENT SECTION
NOT TO SCALE



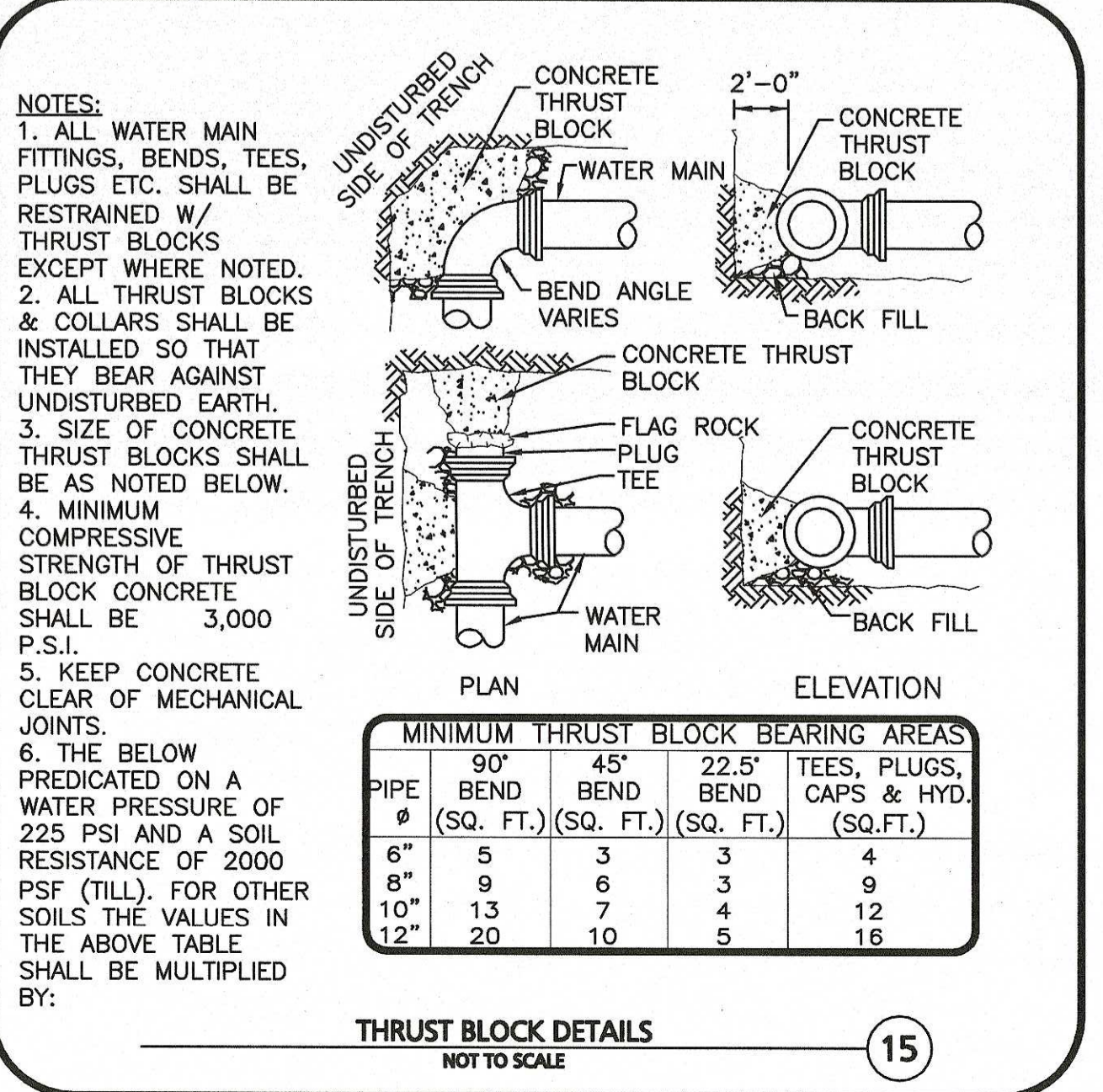
3-WAY GATE WATER CONNECTION WITH MECHANICAL JOINTS
NOT TO SCALE

MUTCD NUMBER	SIGN	SIZE (MIN)	MOUNTING HEIGHT	DESCRIPTION	RETRO-REFLECTIVE
R1-1	STOP	30"x30"	7' - 0"	RED ON WHITE	YES
R7-8(M)	(MODIFIED)	12"x24"	7' - 0"	RED ON WHITE	YES
R7-8		12"x18"	7' - 0"	GREEN & BLUE ON WHITE	YES

NOTES:

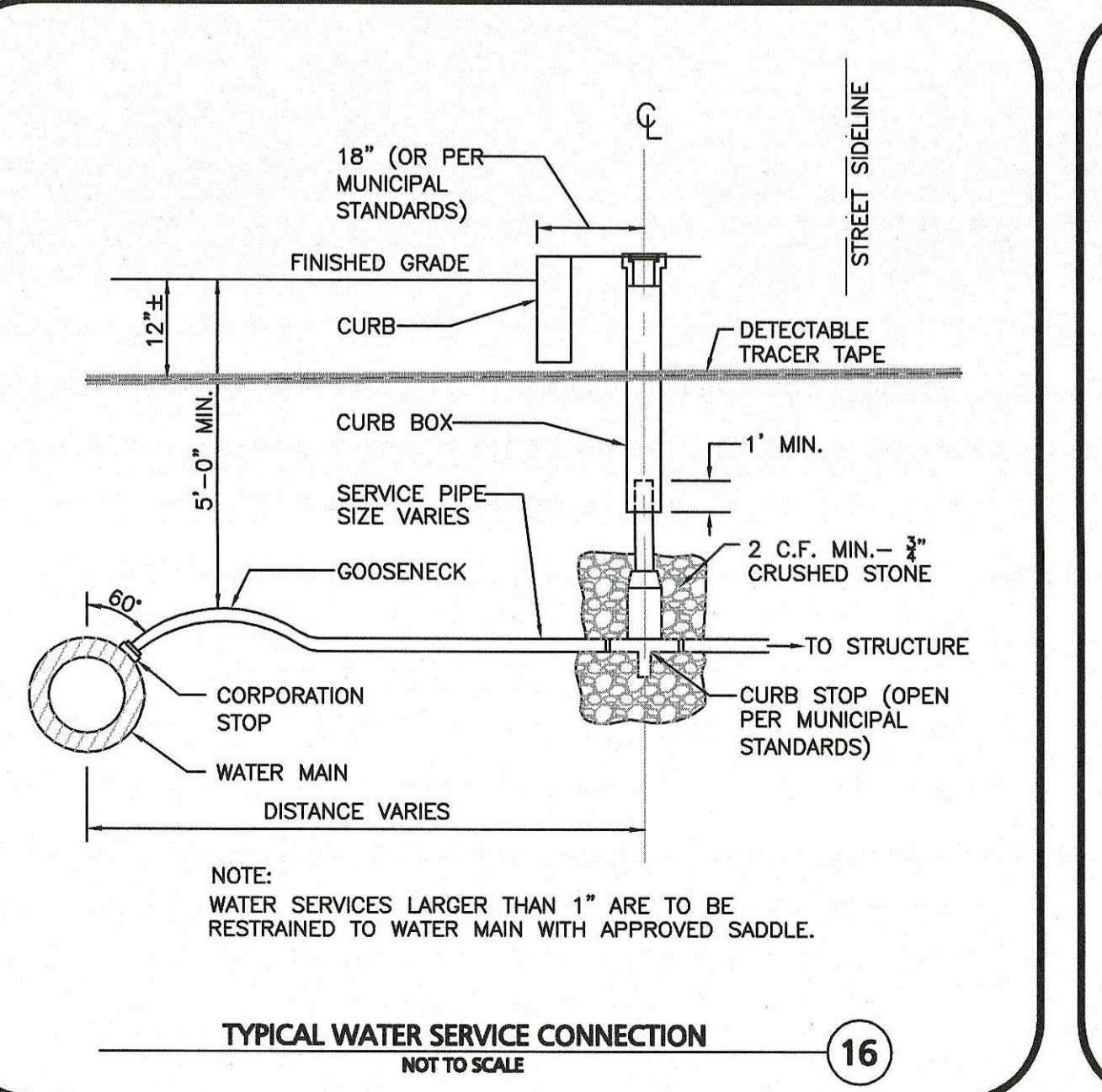
1. TRAFFIC AND SAFETY SIGNAGE SHALL COMPLY WITH MUTCD STANDARDS.
2. WHERE APPLICABLE THE SIGN SUPPORT SHALL COMPLY WITH THE BREAKAWAY REQUIREMENTS OF THE LATEST EDITION OF AASHTO'S "SPECIFICATION FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS".

SIGN TABLE
NOT TO SCALE



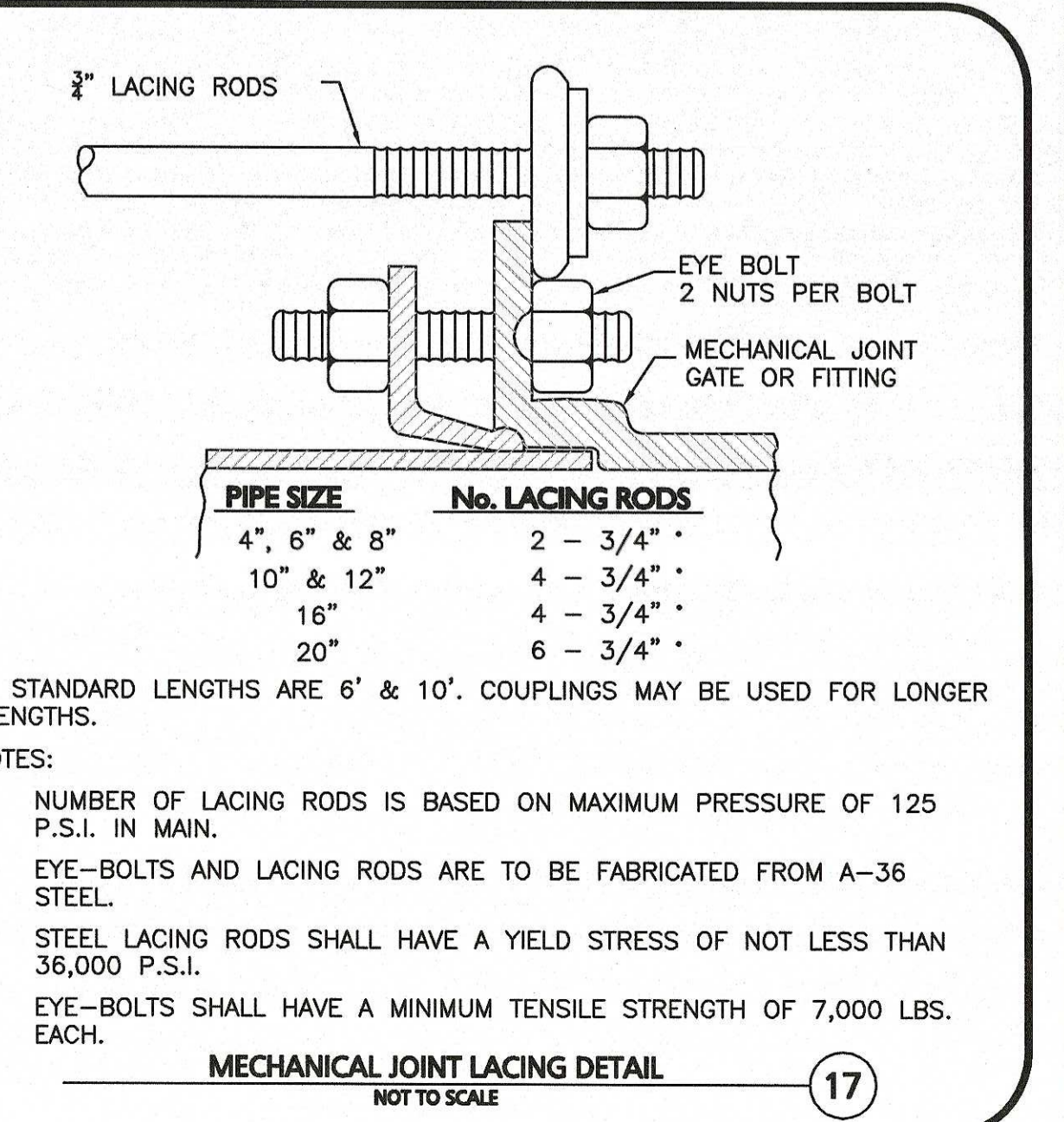
- NOTES:**
1. ALL WATER MAIN FITTINGS, BENDS, TEES, PLUGS ETC. SHALL BE RESTRAINED W/ THRUST BLOCKS EXCEPT WHERE NOTED.
 2. ALL THRUST BLOCKS & COLLARS SHALL BE INSTALLED SO THAT THEY BEAR AGAINST UNDISTURBED EARTH.
 3. SIZE OF CONCRETE THRUST BLOCKS SHALL BE AS NOTED BELOW.
 4. MINIMUM COMPRESSIVE STRENGTH OF THRUST BLOCK CONCRETE SHALL BE 3,000 P.S.I.
 5. KEEP CONCRETE CLEAR OF MECHANICAL JOINTS.
 6. THE BELOW PREDICATED ON A WATER PRESSURE OF 225 PSI AND A SOIL RESISTANCE OF 2000 PSF (TILL). FOR OTHER SOILS THE VALUES IN THE ABOVE TABLE SHALL BE MULTIPLIED BY:
- | PIPE SIZE (IN.) | 90° BEND (SQ. FT.) | 45° BEND (SQ. FT.) | 22.5° BEND (SQ. FT.) | TEES, PLUGS, CAPS & HYD. |
|-----------------|--------------------|--------------------|----------------------|--------------------------|
| 6" | 5 | 3 | 3 | 4 |
| 8" | 9 | 6 | 3 | 9 |
| 10" | 13 | 7 | 4 | 12 |
| 12" | 20 | 10 | 5 | 18 |

THRUST BLOCK DETAILS
NOT TO SCALE



- NOTE:**
WATER SERVICES LARGER THAN 1" ARE TO BE RESTRAINED TO WATER MAIN WITH APPROVED SADDLE.

TYPICAL WATER SERVICE CONNECTION
NOT TO SCALE

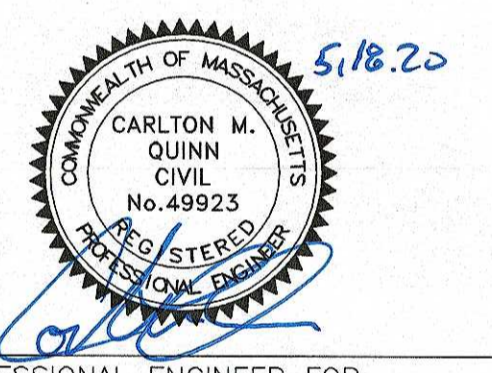


PIPE SIZE	No. LACING RODS
4", 6" & 8"	2 - 3/4"
10" & 12"	4 - 3/4"
16"	4 - 3/4"
20"	6 - 3/4"

* STANDARD LENGTHS ARE 6' & 10'. COUPLINGS MAY BE USED FOR LONGER LENGTHS.

- NOTES:**
1. NUMBER OF LACING RODS IS BASED ON MAXIMUM PRESSURE OF 125 P.S.I. IN MAIN.
 2. EYE-BOLTS AND LACING RODS ARE TO BE FABRICATED FROM A-36 STEEL.
 3. STEEL LACING RODS SHALL HAVE A YIELD STRESS OF NOT LESS THAN 36,000 P.S.I.
 4. EYE-BOLTS SHALL HAVE A MINIMUM TENSILE STRENGTH OF 7,000 LBS. EACH.

MECHANICAL JOINT LACING DETAIL
NOT TO SCALE



PROFESSIONAL ENGINEER FOR ALLEN & MAJOR ASSOCIATES, INC.

REV	DATE	DESCRIPTION
5	05-18-20	REVISED PER CITY COMMENTS
4	02-20-20	VARIOUS REVISIONS
3	02-03-20	VARIOUS REVISIONS
2	01-31-20	RESUBMITTED FOR LOCAL APPROVAL
1	12-20-19	ISSUED FOR LOCAL APPROVAL

APPLICANT/OWNER:
WP MARLBOROUGH MA OWNER, LLC
9 WEST BROAD STREET, SUITE 800
STAMFORD, CT 06902

PROJECT:
MULTI-FAMILY DEVELOPMENT
339 BOSTON POST ROAD EAST
MARLBOROUGH, MA

PROJECT NO. 2658-01 DATE: 12-20-2019

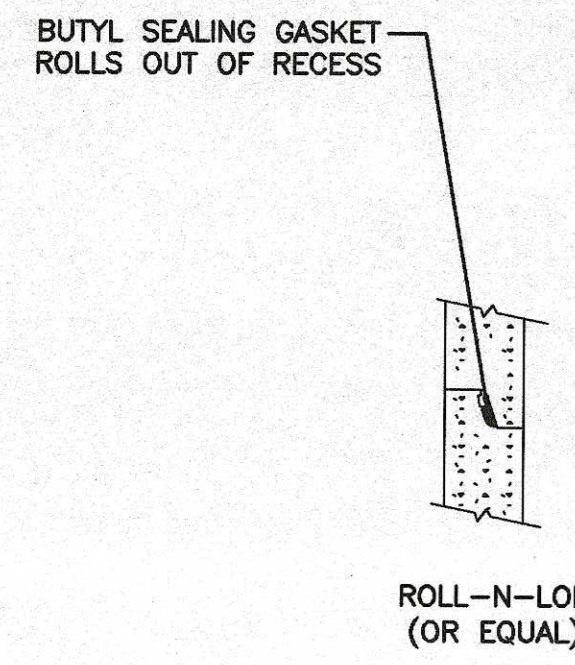
SCALE: AS SHOWN DWG. NAME: C-2658-01

DESIGNED BY: SJL/DMR CHECKED BY: CMQ



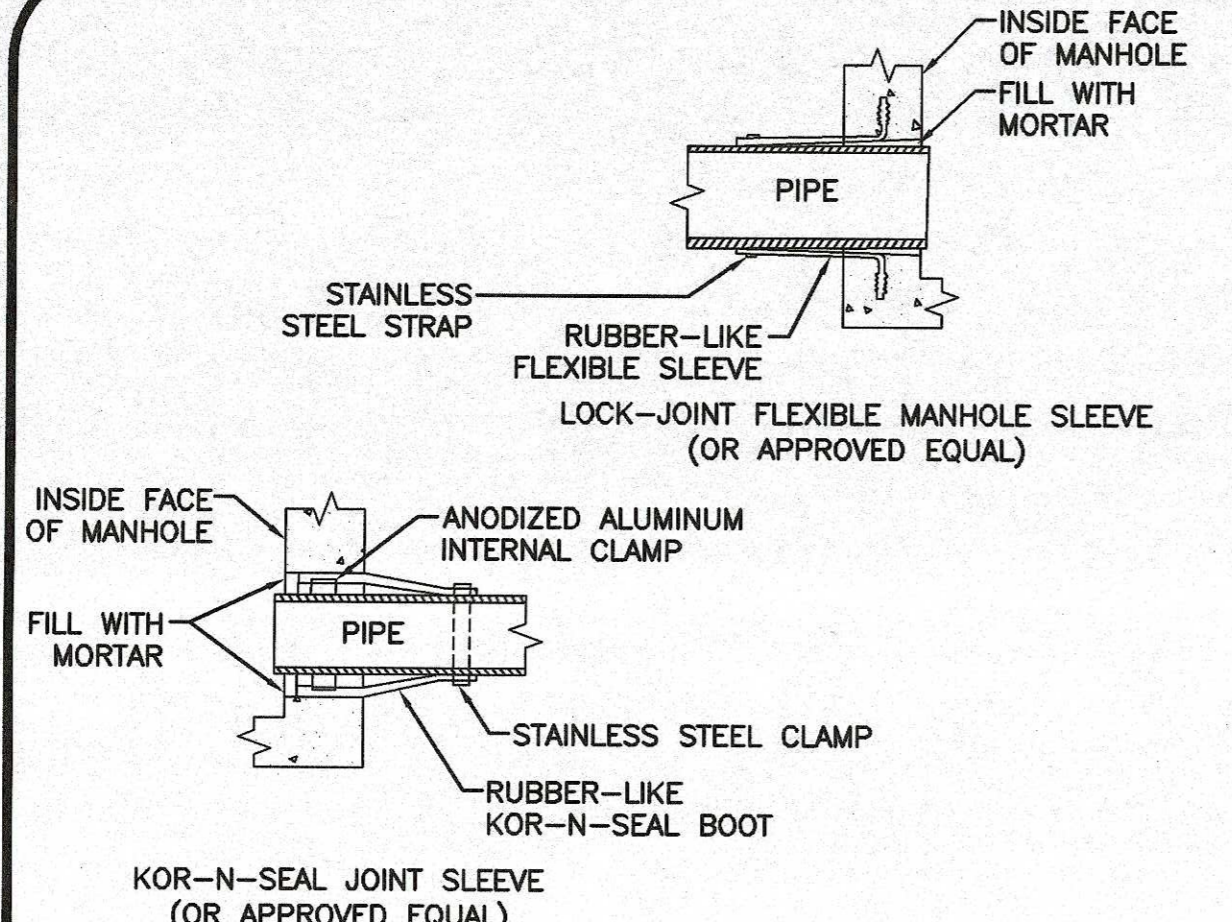
WOBURN, MA • LAKEVILLE, MA • MANCHESTER, NH
THIS DRAWING HAS BEEN PREPARED IN ELECTRONIC FORMAT. CLIENT/CUSTOMER REPRESENTATIVE OR CONSULTANT MAY BE PROVIDED COPIES OF DRAWINGS AND SPECIFICATIONS ON MAGNETIC MEDIA FOR HIS/HER INFORMATION AND USE FOR SPECIFIC APPLICATION TO THIS PROJECT. DUE TO THE POTENTIAL THAT THE MAGNETIC INFORMATION MAY BE MODIFIED UNINTENTIONALLY OR OTHERWISE, ALLEN & MAJOR ASSOCIATES, INC. MAY REMOVE ALL INDICATION OF THE DOCUMENT'S AUTHORSHIP ON THE MAGNETIC MEDIA. PRINTED REPRESENTATIONS OF THE DRAWINGS AND SPECIFICATIONS ISSUED SHALL BE THE ONLY RECORD COPIES OF ALLEN & MAJOR ASSOCIATES, INC.'S WORK PRODUCT.

DRAWING TITLE: CIVIL DETAILS SHEET No. C-501



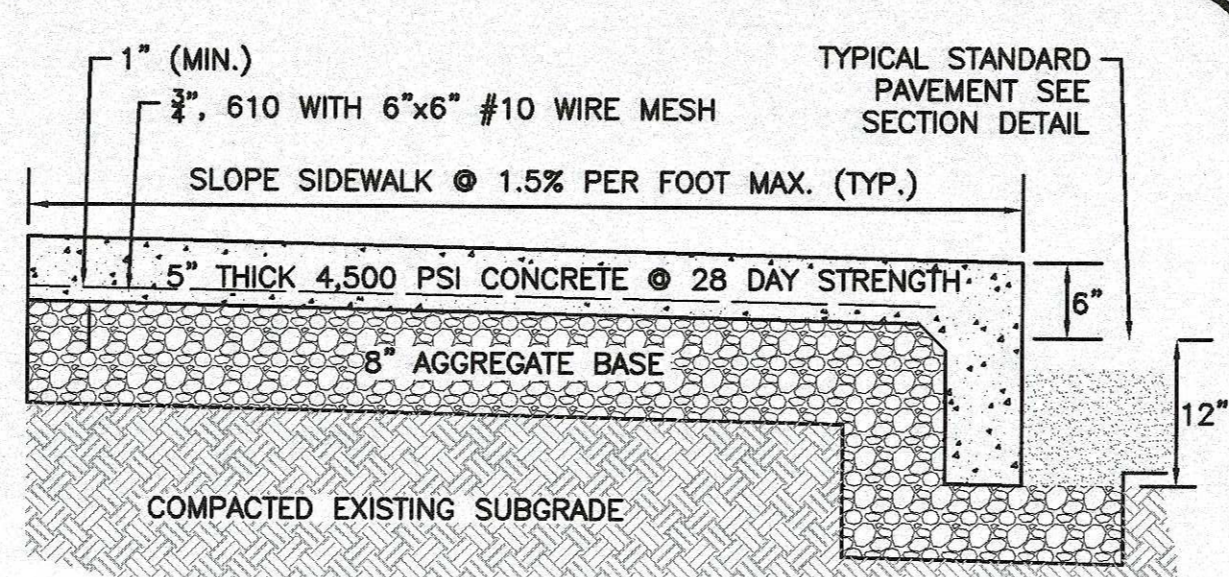
SEWER MANHOLE JOINTING METHOD
NOT TO SCALE

NOTES:
1. HORIZONTAL JOINTS BETWEEN SECTIONS OF PRECAST CONCRETE BARRELS SHALL BE OF A TYPE APPROVED BY THE ENGINEER, WHICH TYPE SHALL, IN GENERAL, DEPEND FOR WATER TIGHTNESS UPON AN ELASTOMERIC OR MASTIC-LIKE GASKET.
2. ALL GASKETS AND SEALANTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
3. FOR BITUMASTIC TYPE JOINTS THE AMOUNT OF SEALANT SHALL BE SUFFICIENT TO FILL AT LEAST 75% OF THE JOINT CAVITY.



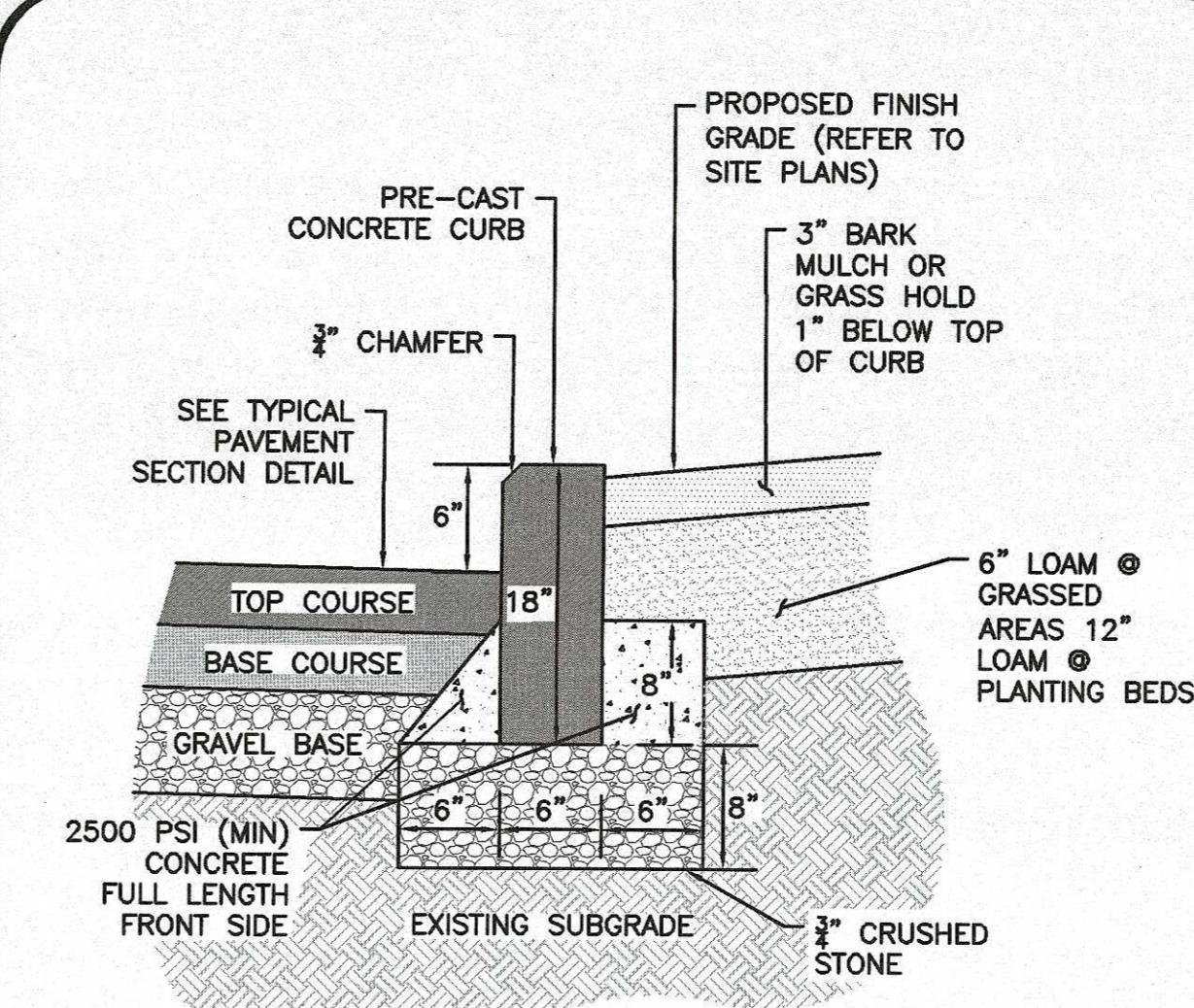
PIPE CONNECTIONS TO SEWER MANHOLE
NOT TO SCALE

NOTES:
1. PIPE TO MANHOLE JOINTS SHALL BE ONLY AS APPROVED BY THE ENGINEER AND IN GENERAL, WILL DEPEND FOR WATER TIGHTNESS UPON ELASTOMERIC SEALANT.
2. NON-SHRINKING MORTAR SHALL ONLY BE USED WHERE SPECIFICALLY APPROVED BY THE ENGINEER.

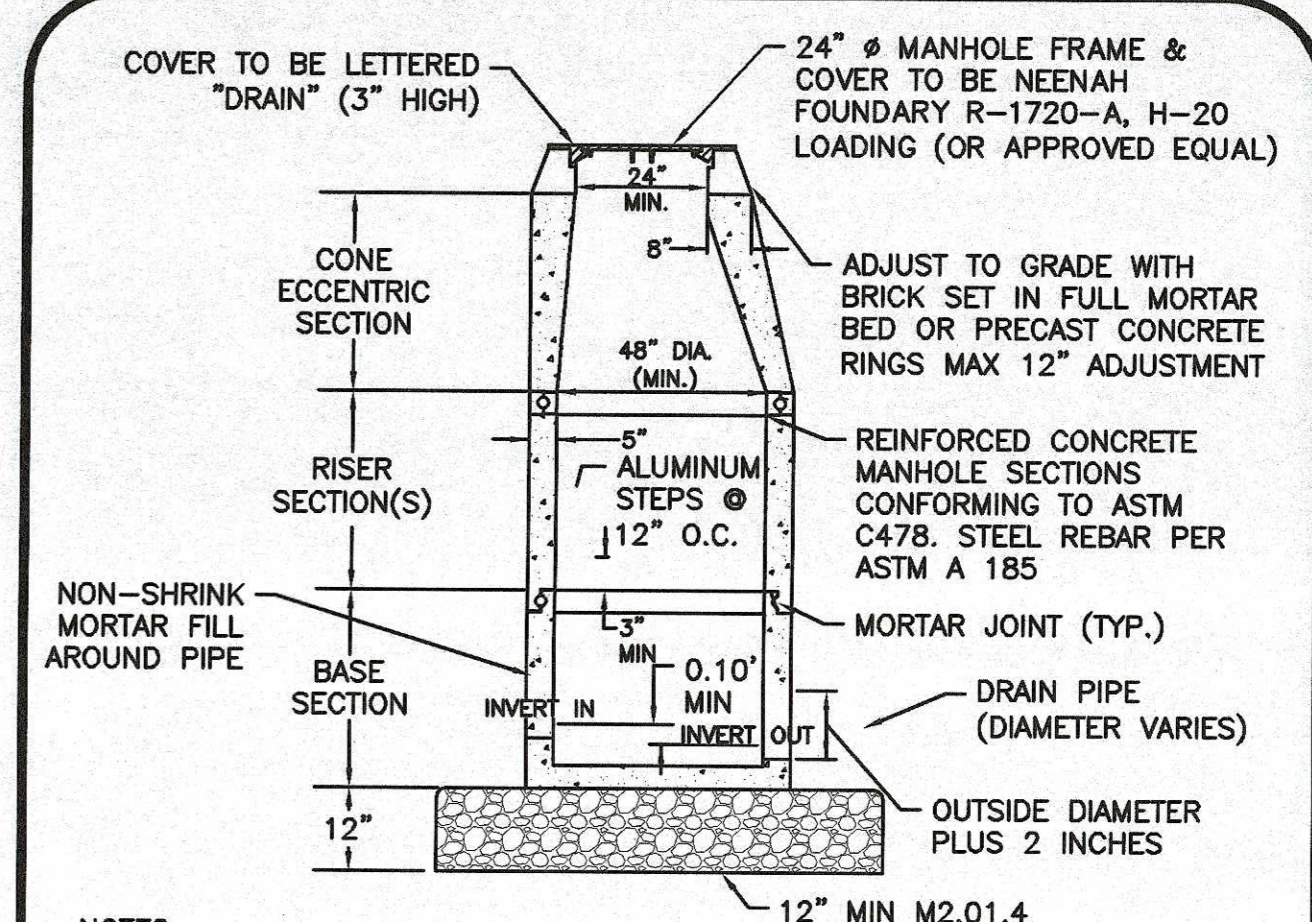


MONOLITHIC CONCRETE SIDEWALK WITH 6" REVEAL
NOT TO SCALE

NOTES:
1. SIDEWALK TO HAVE TOOLED JOINTS IN A 5' x 5' (TYP.) GRID WITH EXPANSION JOINTS 15' ON CENTER AND PRE-MOLDED FILLER.
2. TOOLED JOINT 6" FROM FACE OF CURB.
3. SEE PLAN FOR ELEVATIONS AT CURB.
4. SIDEWALK CROSS SLOPE TO BE 1.5% MAX & SIDEWALK LONGITUDINAL RUNNING SLOPE TO BE 4.5% MAX, TYP.
5. THE SURFACE SHALL BE FINISHED WITH A SOFT BRISTLED PUSH BROOM ACROSS THE ENTIRE SIDEWALK WIDTH, PERPENDICULAR TO THE DIRECTION OF PEDESTRIAN. "PICTURE FRAME" FINISHES SHOULD NOT BE PROVIDED.

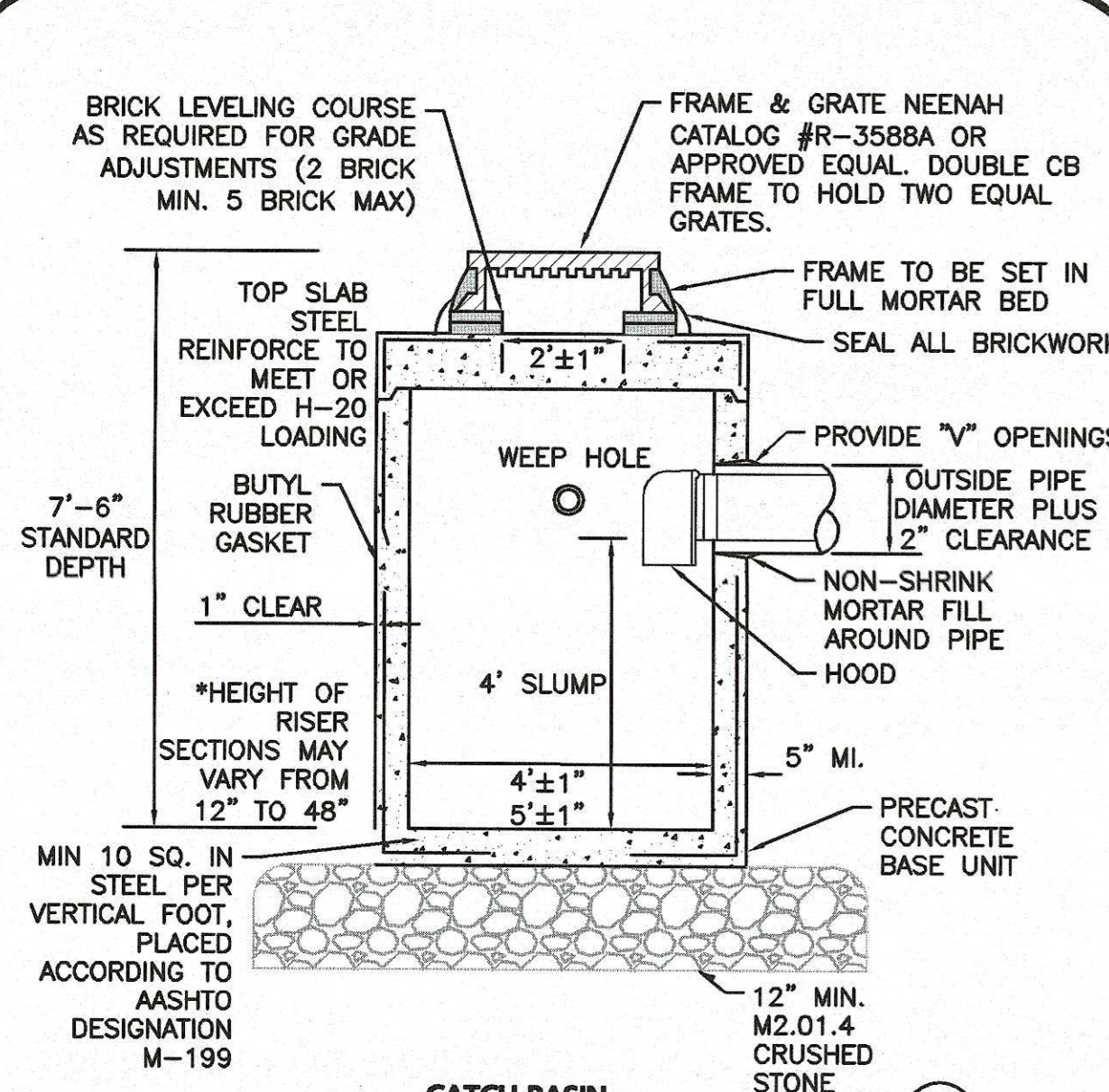


PRE-CAST CONCRETE CURB (PCC)
NOT TO SCALE

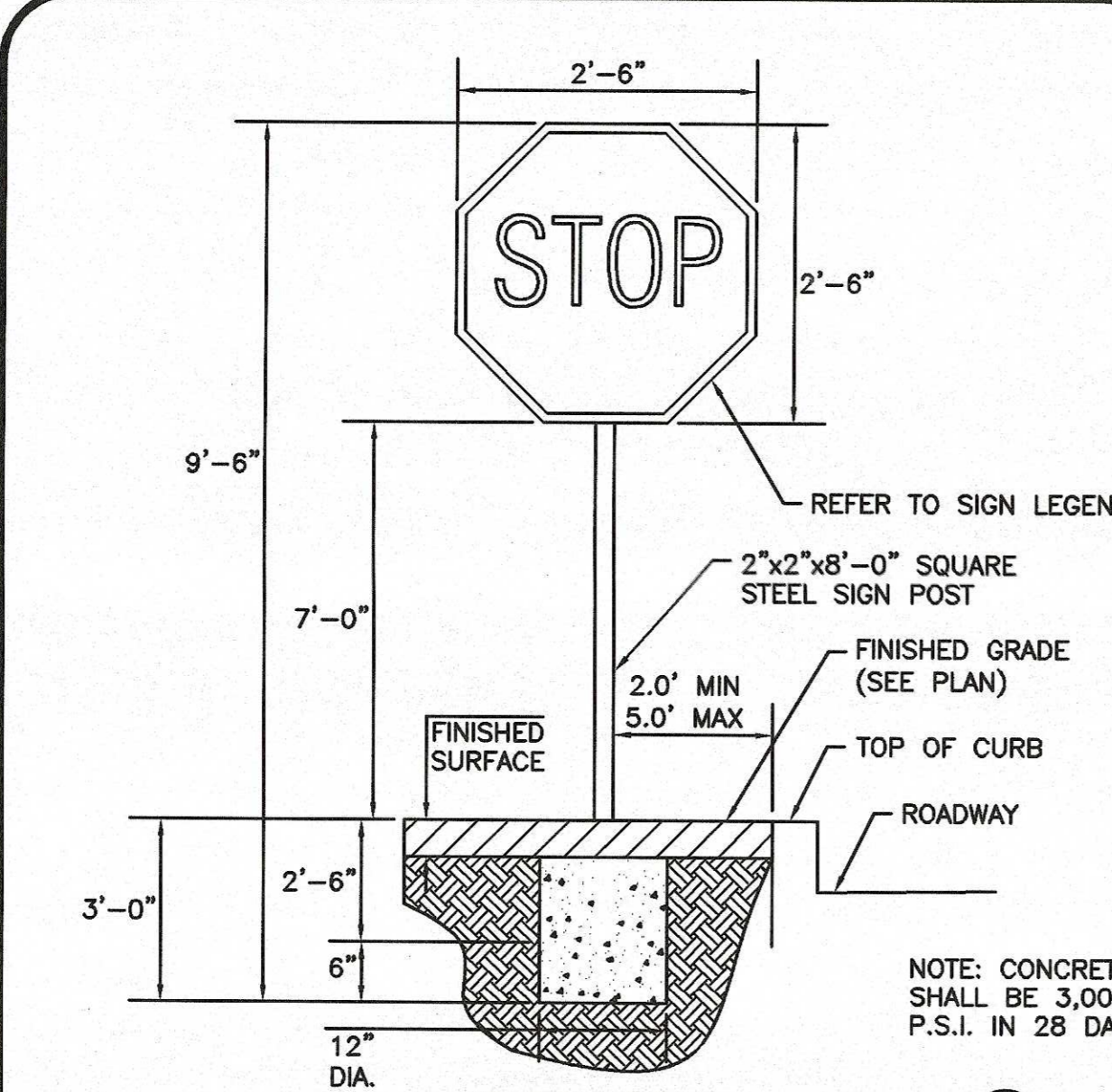


PRECAST DRAIN MANHOLE
NOT TO SCALE

NOTES:
1. THE MANHOLE, INCLUDING ALL COMPONENT PARTS, SHALL HAVE ADEQUATE SPACE AND STRENGTH QUALITIES CONSIDERED NECESSARY FOR THE INTENDED SERVICE. SPACE REQUIREMENT AND CONFIGURATIONS SHALL BE AS SHOWN ON THE DRAWING. THE COMPLETE STRUCTURE SHALL BE OF SUCH MATERIAL AND QUALITY AS TO WITHSTAND (H-20 LOADING) WITHOUT FAILURE. VERTICAL FOOT OF MANHOLE.

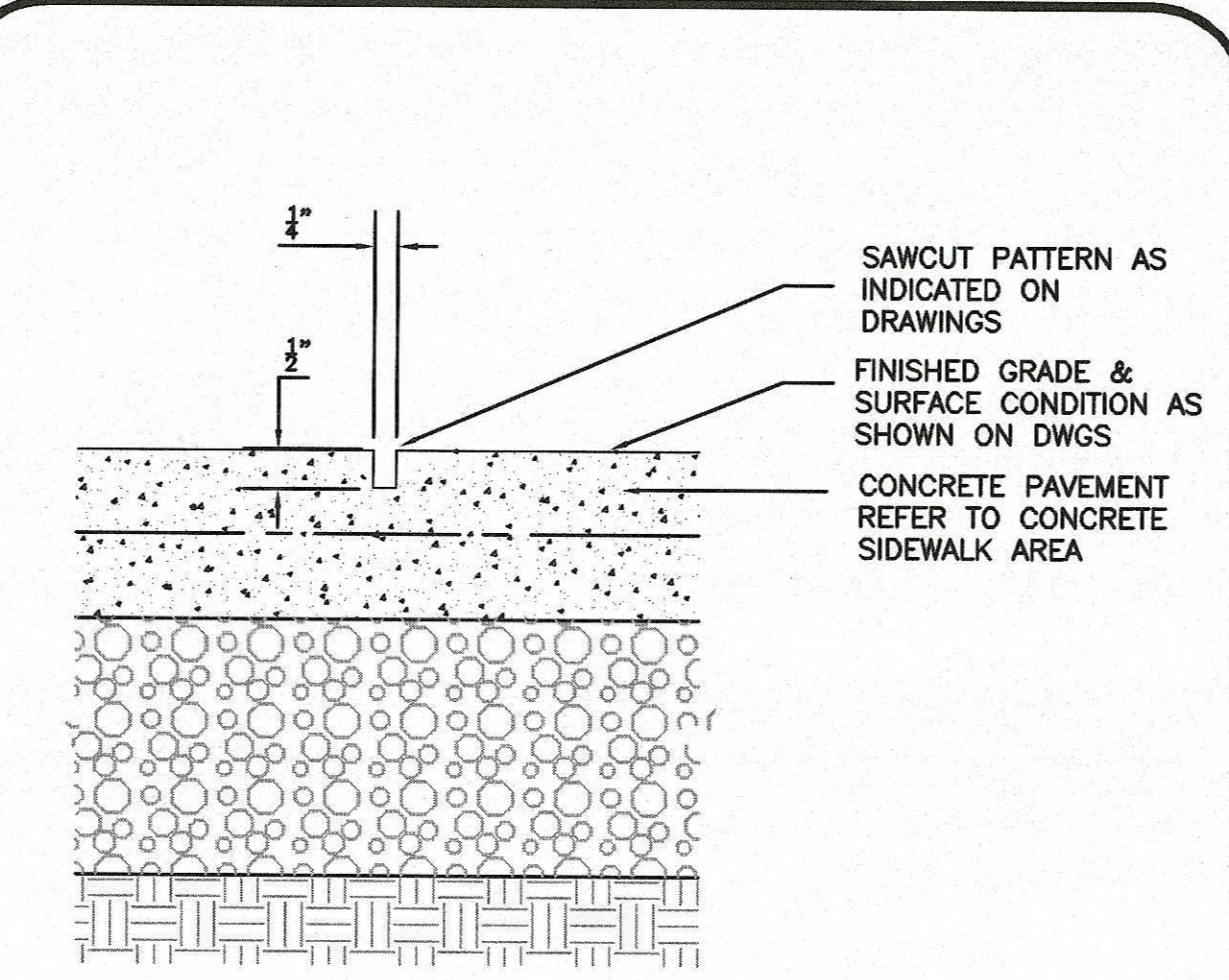


CATCH BASIN
NOT TO SCALE

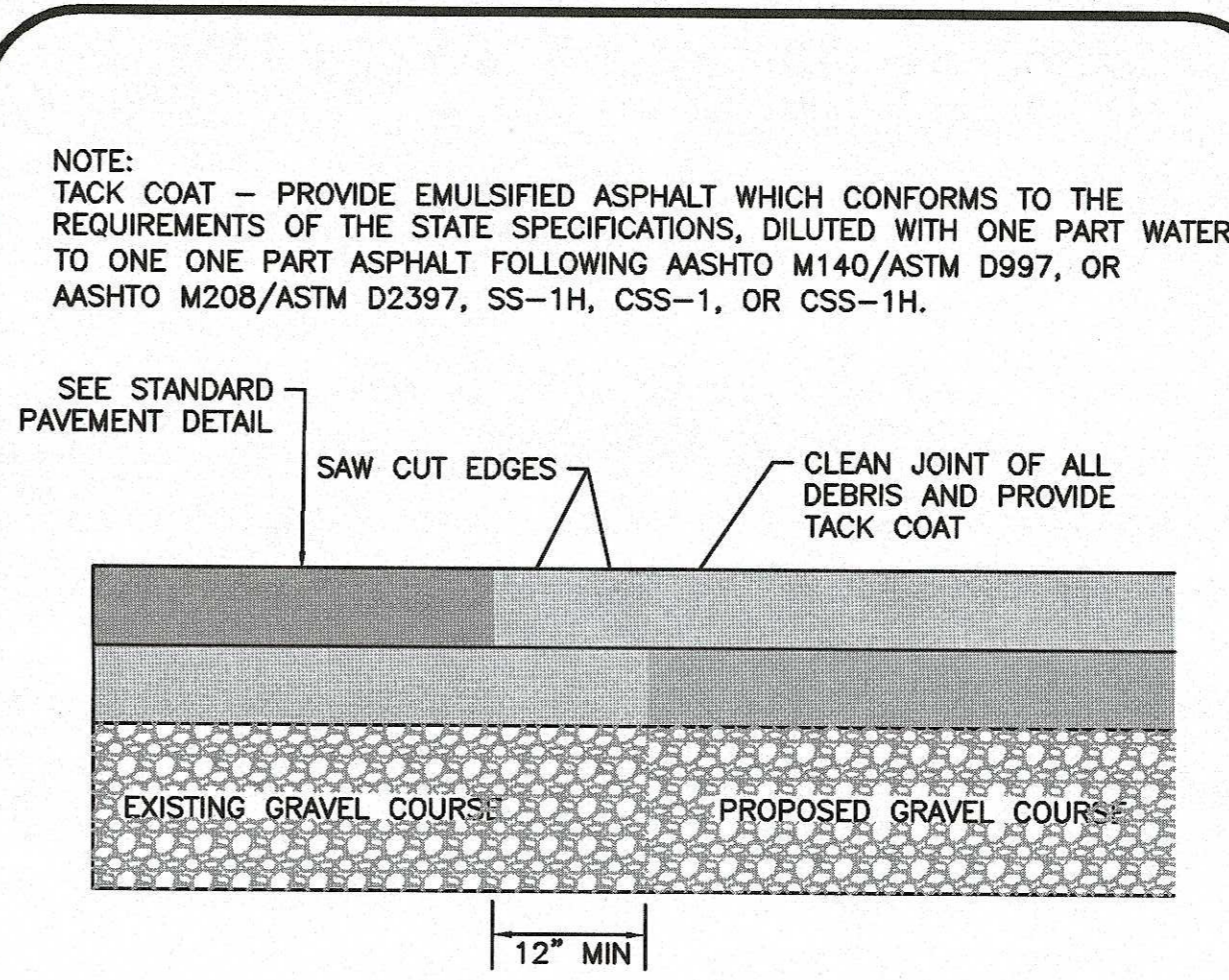


STOP SIGN DETAIL
NOT TO SCALE

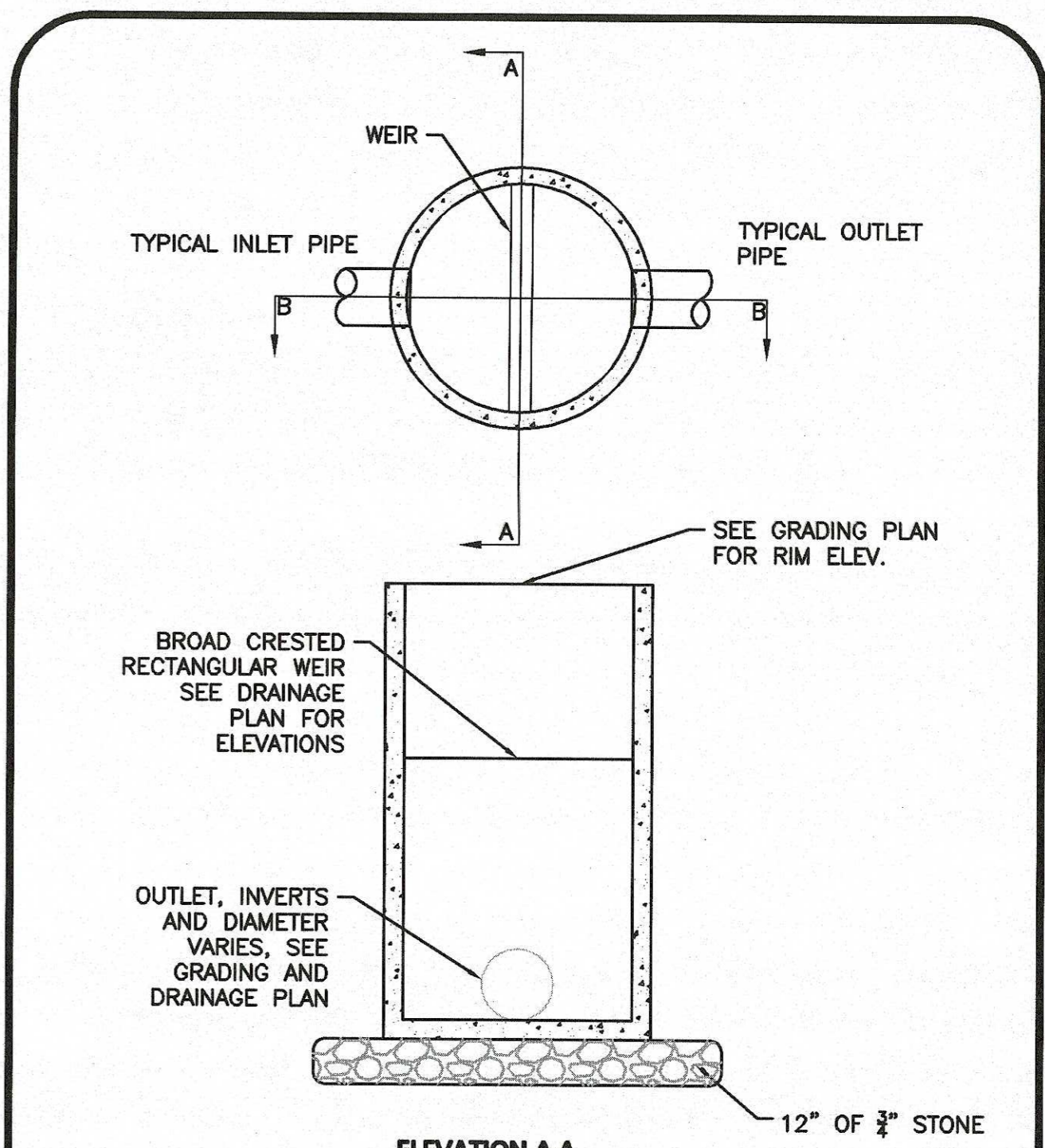
NOTE: CONCRETE SHALL BE 3,000 P.S.I. IN 28 DAYS



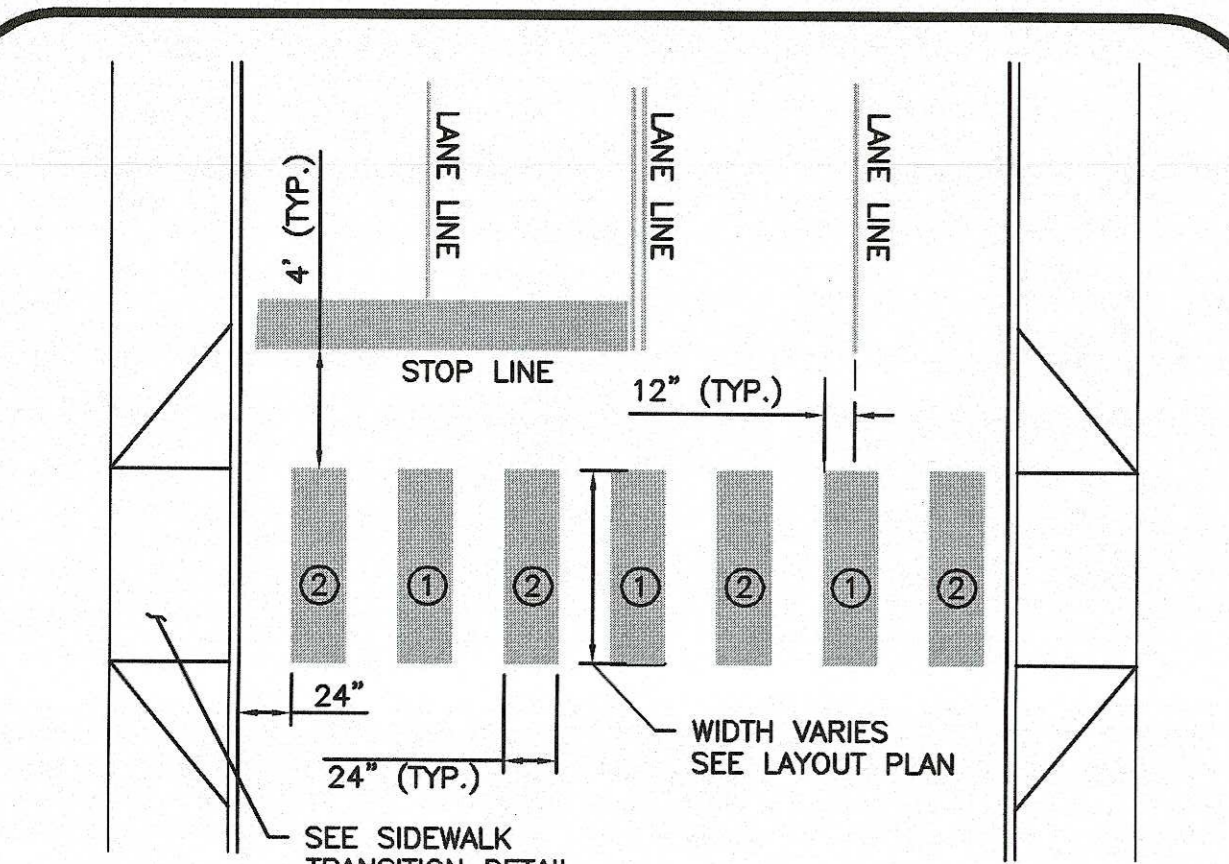
TYPICAL CONCRETE SAWCUT JOINT CONTROL
NOT TO SCALE



PAVEMENT KEY CUT
NOT TO SCALE

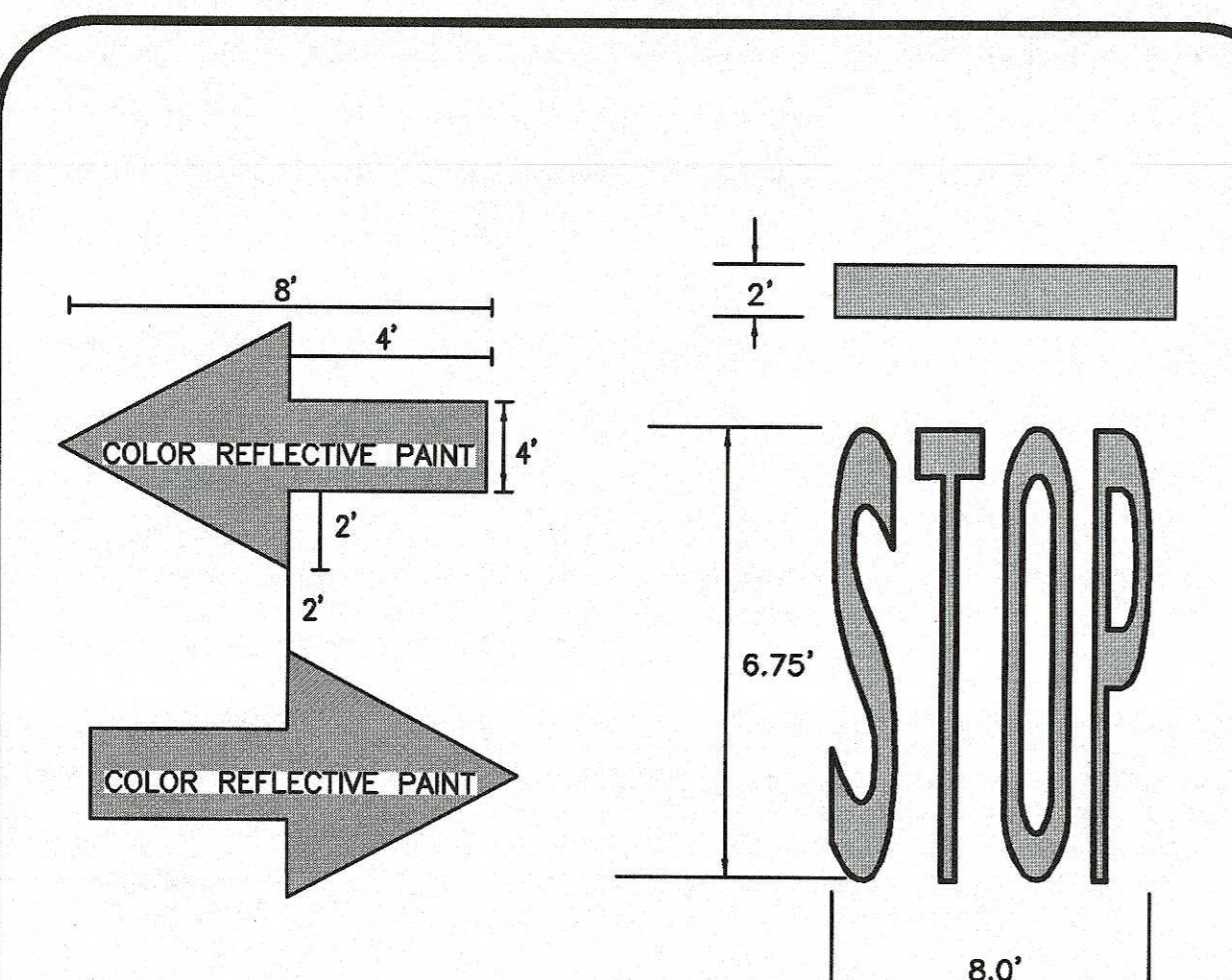


TYPICAL 4" DIAMETER OUTLET CONTROL STRUCTURE
NOT TO SCALE

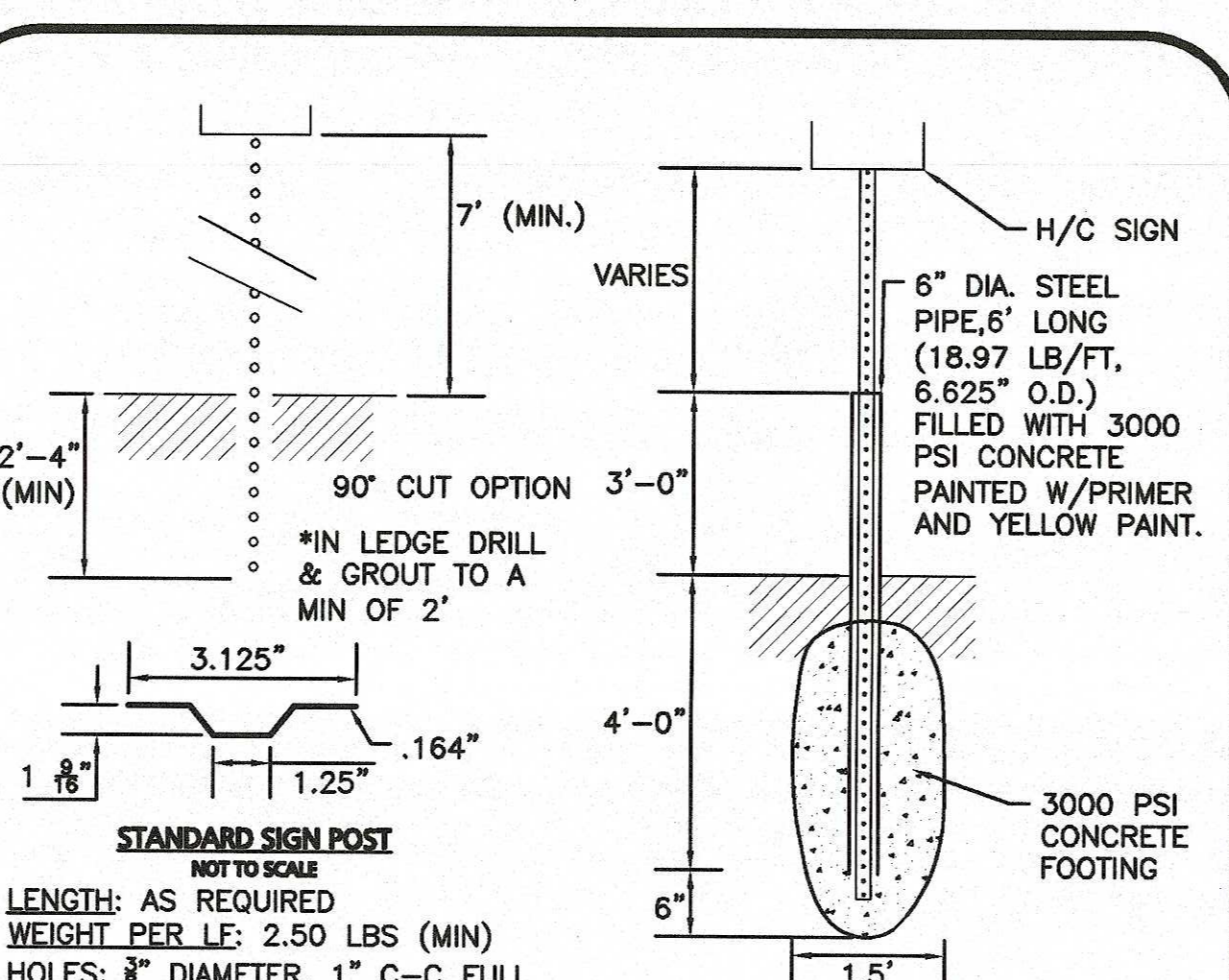


CROSSWALK STRIPING
NOT TO SCALE

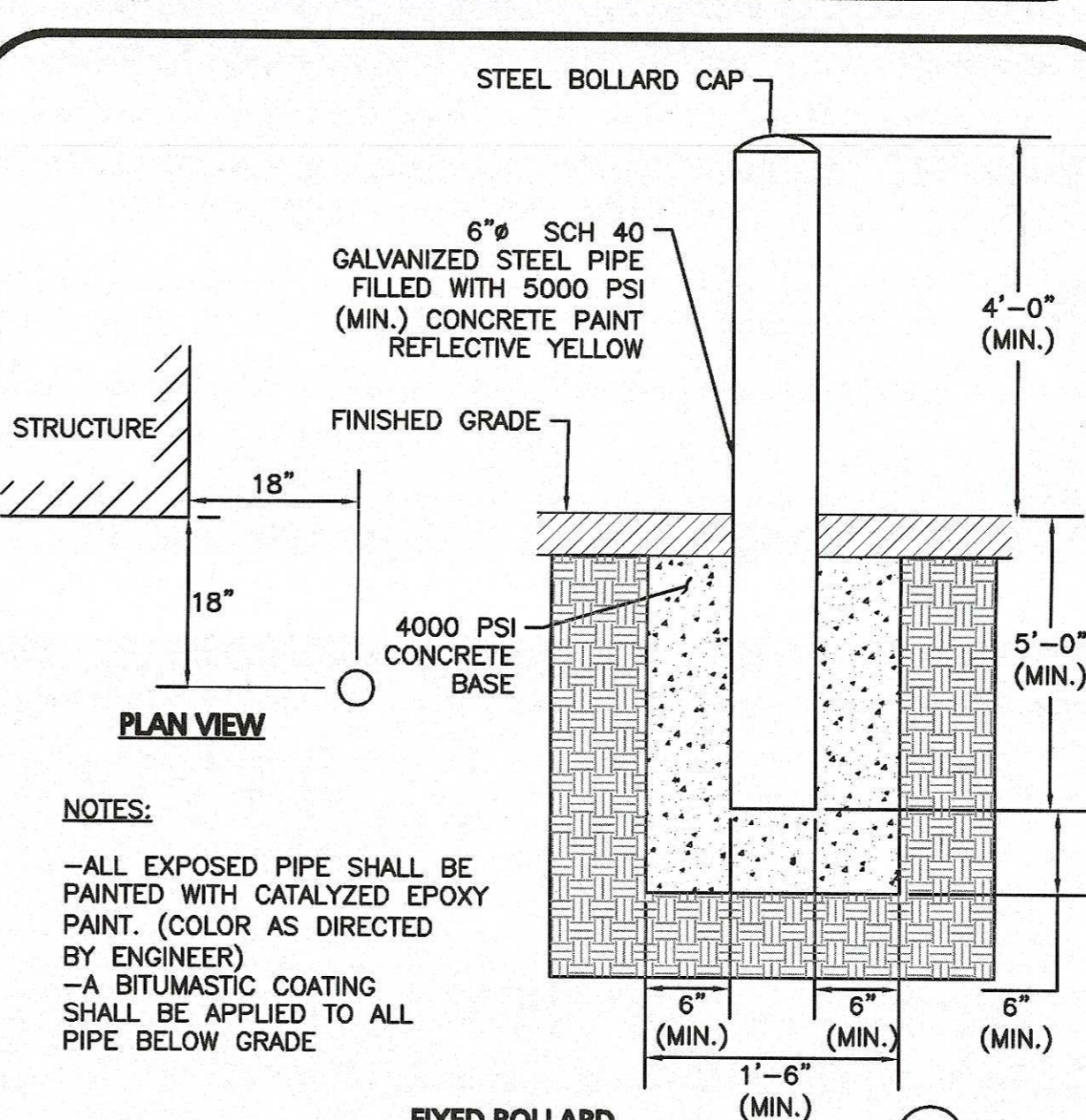
NOTE:
1. LANE LINE STRIP: THIS IS LOCATED IN THE LINE WITH EACH LANE LINE AND HALF THE STRIP ON EACH SIDE.
2. MID LINE STRIP: THIS IS LOCATED MIDWAY BETWEEN EACH LANE LINE STRIP.



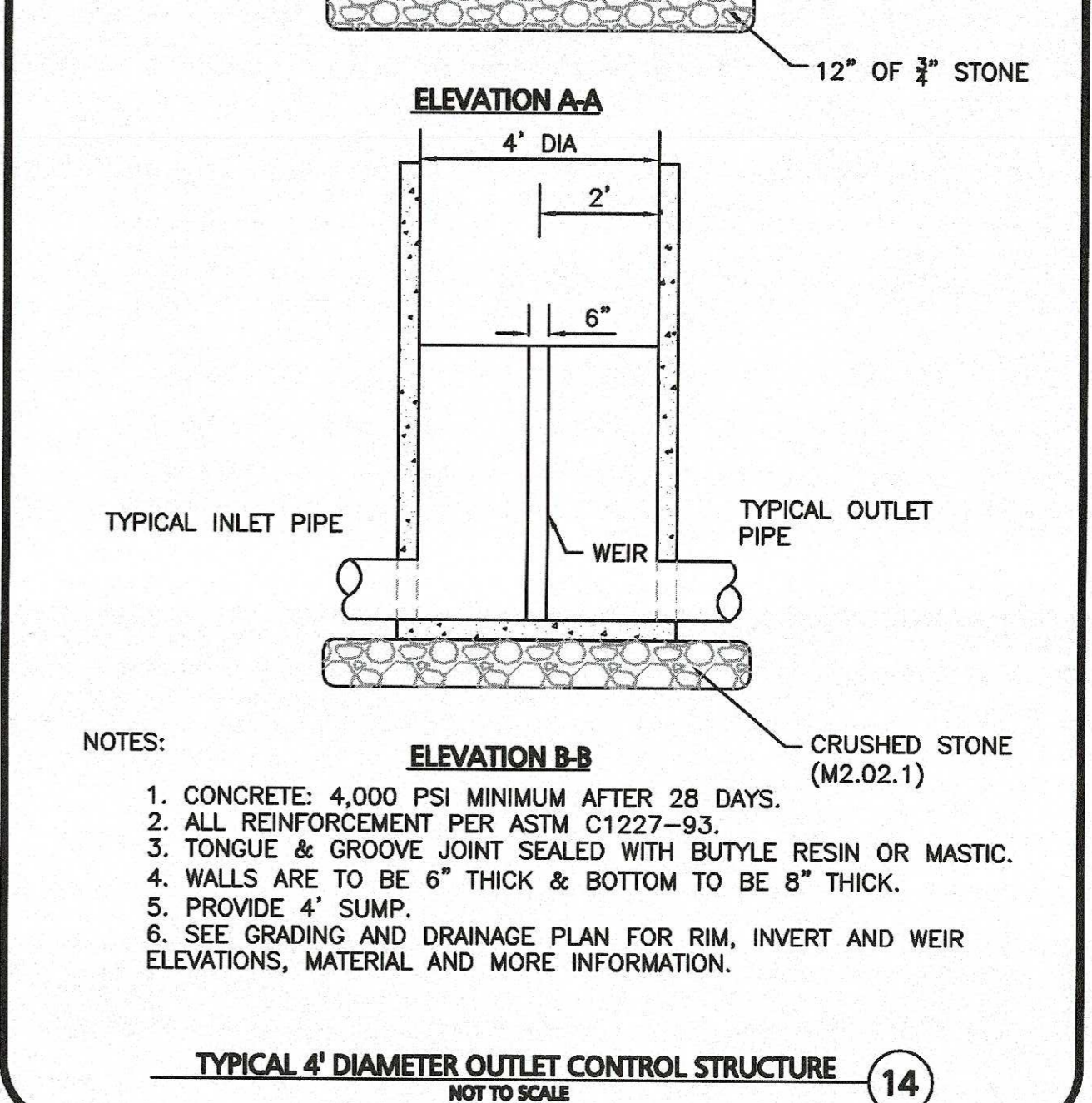
WHITE THERMOPLASTIC LETTERING AND ARROWS
NOT TO SCALE



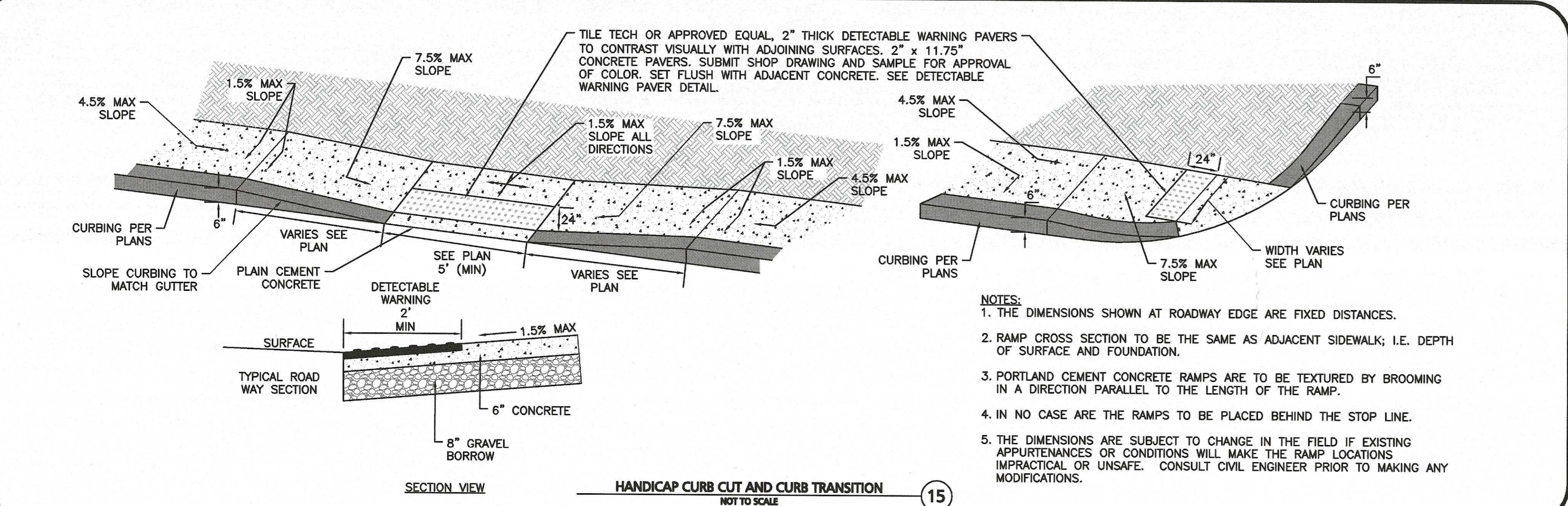
SIGN POST DETAIL
NOT TO SCALE



FIXED BOLLARD
NOT TO SCALE

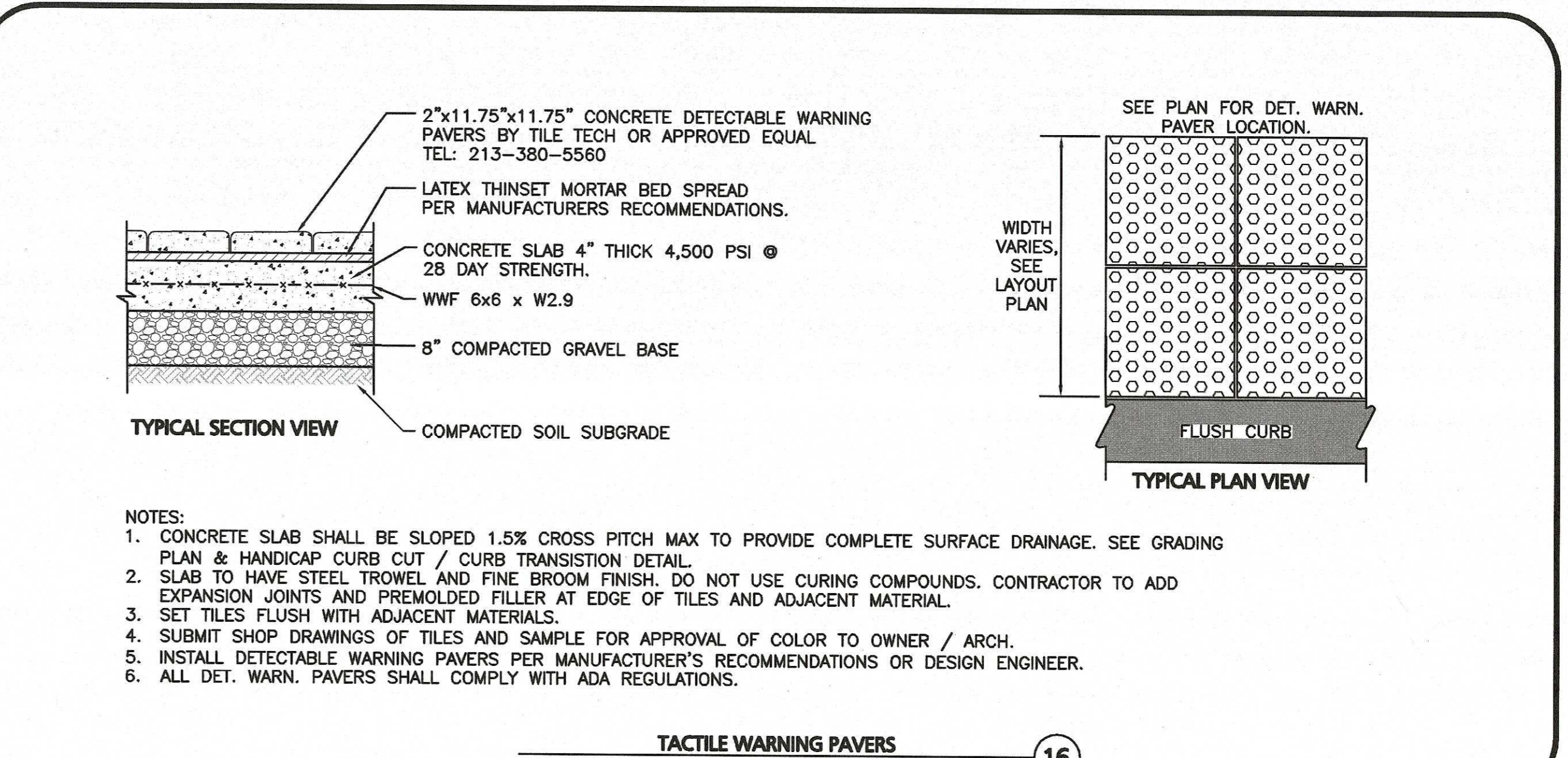


TYPICAL 4" DIAMETER OUTLET CONTROL STRUCTURE
NOT TO SCALE



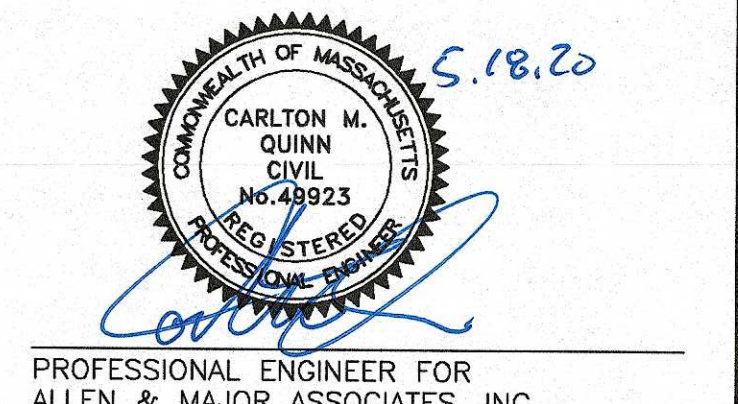
HANDICAP CURB CUT AND CURB TRANSITION
NOT TO SCALE

NOTES:
1. THE DIMENSIONS SHOWN AT ROADWAY EDGE ARE FIXED DISTANCES.
2. RAMP CROSS SECTION TO BE THE SAME AS ADJACENT SIDEWALK; I.E. DEPTH OF SURFACE AND FOUNDATION.
3. PORTLAND CEMENT CONCRETE RAMPS ARE TO BE TEXTURED BY BROOMING IN A DIRECTION PARALLEL TO THE LENGTH OF THE RAMP.
4. IN NO CASE ARE THE RAMPS TO BE PLACED BEHIND THE STOP LINE.
5. THE DIMENSIONS ARE SUBJECT TO CHANGE IN THE FIELD IF EXISTING APPURTENANCES OR CONDITIONS WILL MAKE THE RAMP LOCATIONS IMPRACTICAL OR UNSAFE. CONSULT CIVIL ENGINEER PRIOR TO MAKING ANY MODIFICATIONS.



TACTILE WARNING PAVERS
NOT TO SCALE

NOTES:
1. CONCRETE SLAB SHALL BE SLOPED 1.5% CROSS PITCH MAX TO PROVIDE COMPLETE SURFACE DRAINAGE. SEE GRADING PLAN & HANDICAP CURB CUT / CURB TRANSITION DETAIL.
2. SLAB TO HAVE STEEL TROWEL AND FINE BROOM FINISH. DO NOT USE CURING COMPOUNDS. CONTRACTOR TO ADD EXPANSION JOINTS AND PREMOLDED FILLER AT EDGE OF TILES AND ADJACENT MATERIAL.
3. SET TILES FLUSH WITH ADJACENT MATERIALS.
4. SUBMIT SHOP DRAWINGS OF TILES AND SAMPLE FOR APPROVAL OF COLOR TO OWNER / ARCH.
5. INSTALL DETECTABLE WARNING PAVERS PER MANUFACTURER'S RECOMMENDATIONS OR DESIGN ENGINEER.
6. ALL DET. WARN. PAVERS SHALL COMPLY WITH ADA REGULATIONS.

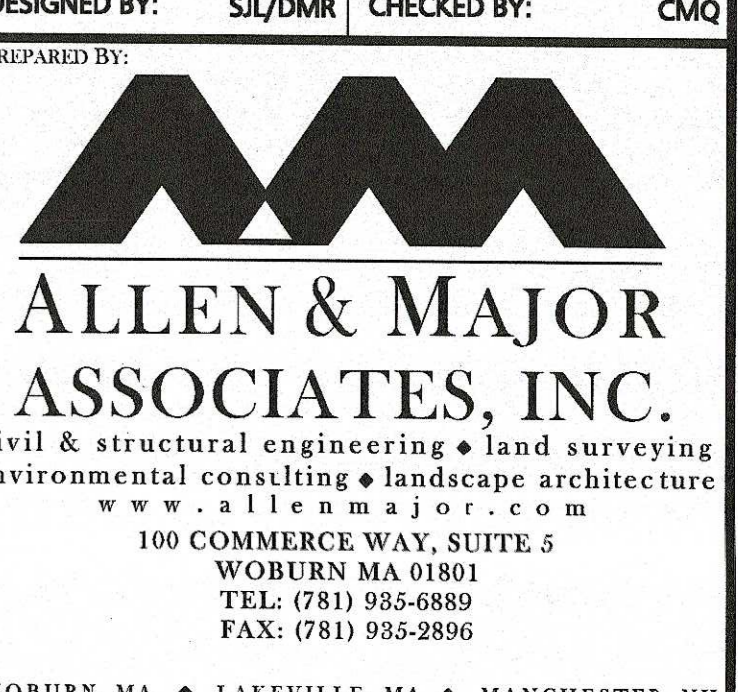


REV	DATE	DESCRIPTION
5	05-18-20	REVISED PER CITY COMMENTS
4	02-20-20	VARIOUS REVISIONS
3	02-03-20	VARIOUS REVISIONS
2	01-31-20	RESUBMITTED FOR LOCAL APPROVAL
1	12-20-19	ISSUED FOR LOCAL APPROVAL

APPLICANT/OWNER:
WP MARLBOROUGH MA OWNER, LLC
9 WEST BROAD STREET, SUITE 800
STAMFORD, CT 06902

MULTI-FAMILY DEVELOPMENT
339 BOSTON POST ROAD EAST
MARLBOROUGH, MA

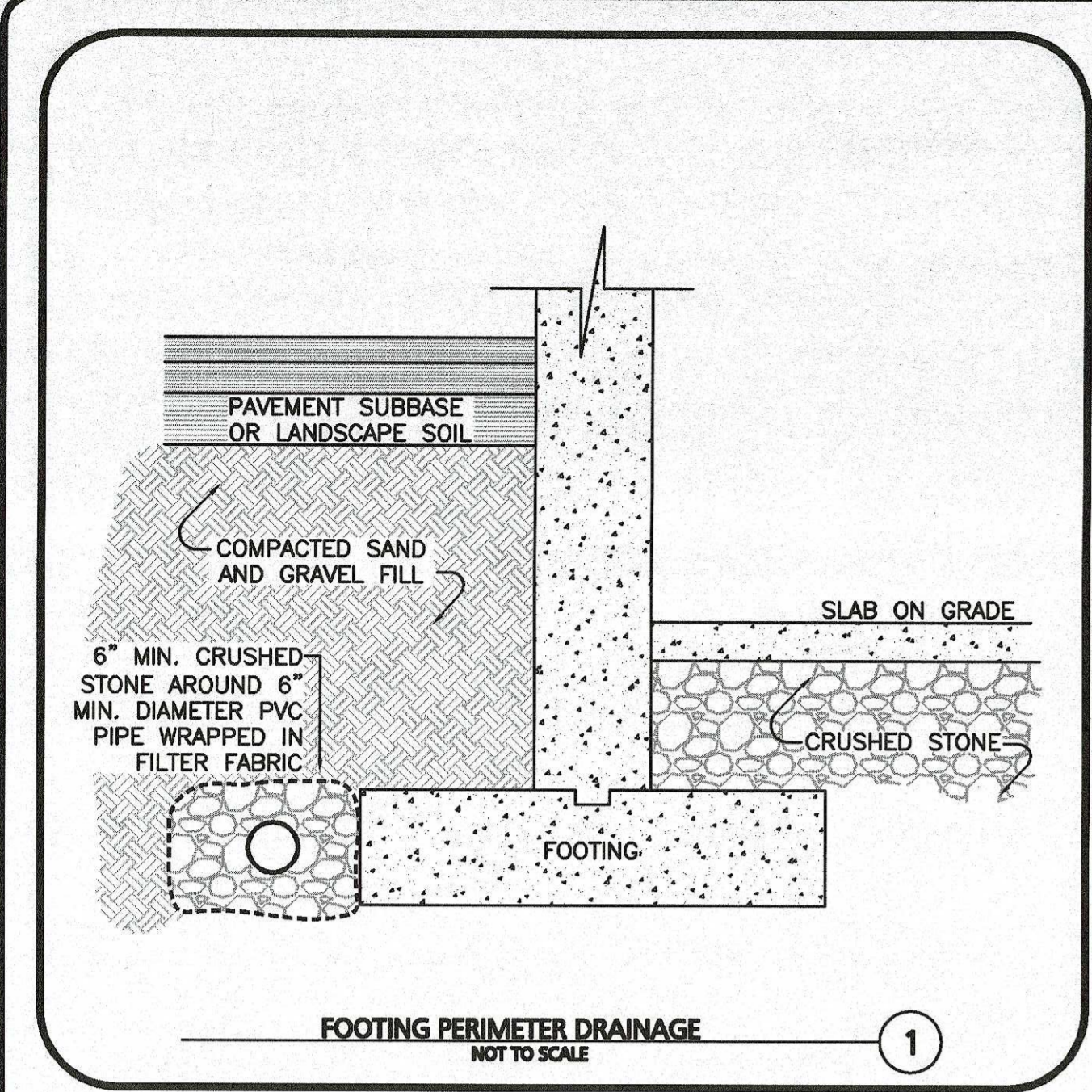
PROJECT NO.	2658-01	DATE:	12-20-2019
SCALE:	AS SHOWN	DWG. NAME:	C2658-01
DESIGNED BY:	SJL/DMR	CHECKED BY:	CMQ



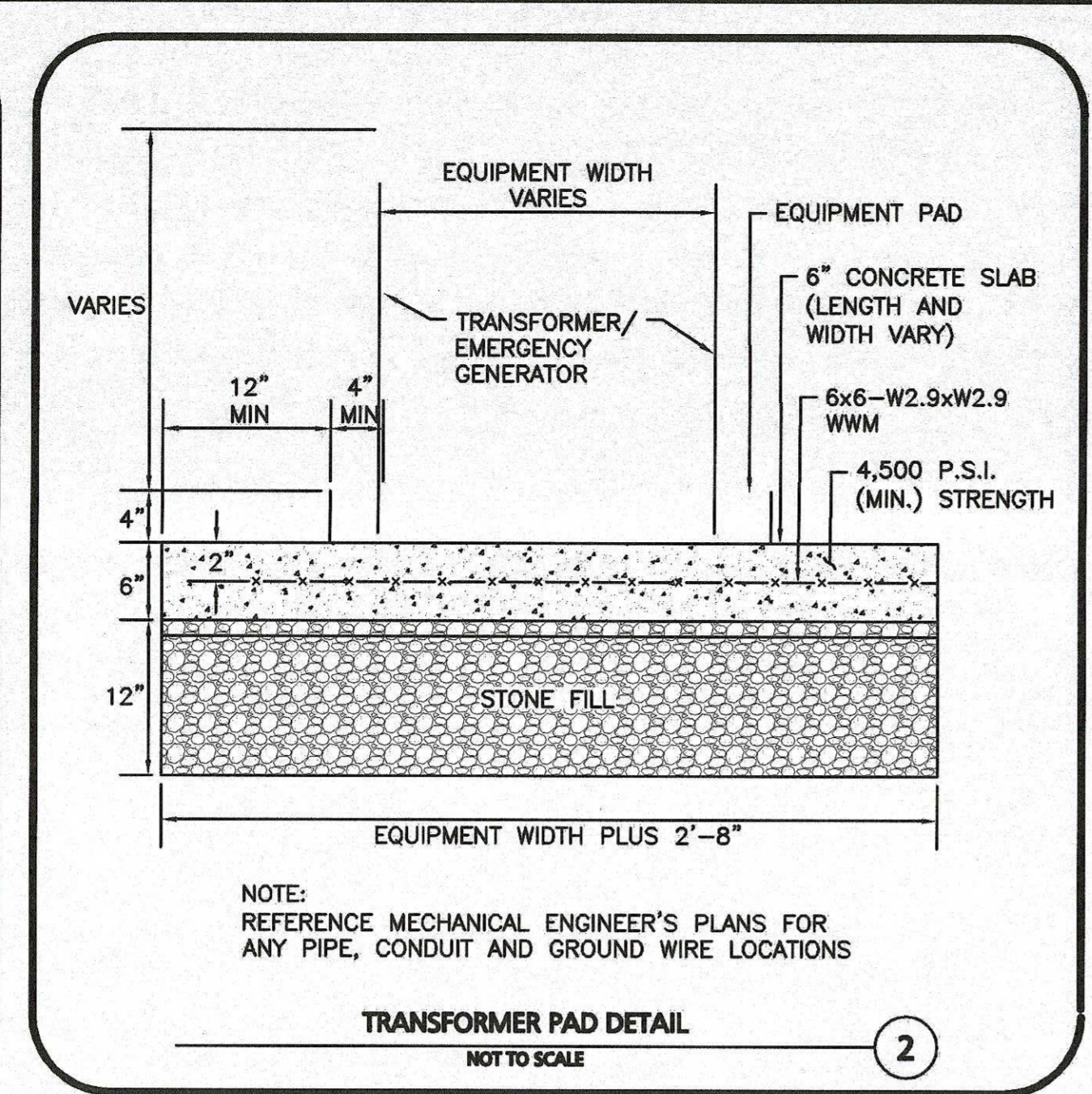
WOBURN, MA • LAKEVILLE, MA • MANCHESTER, NH

THIS DRAWING HAS BEEN PREPARED IN ELECTRONIC FORMAT. CLIENT/CURB'S REPRESENTATIVE OR CONSULTANT MAY BE PROVIDED COPIES OF DRAWINGS AND SPECIFICATIONS ON MAGNETIC MEDIA FOR HIS/HER INFORMATION AND USE FOR SPECIFIC APPLICATION TO THIS PROJECT. DUE TO THE POTENTIAL THAT THE MAGNETIC INFORMATION MAY BE MODIFIED UNINTENTIONALLY OR OTHERWISE, ALLEN & MAJOR ASSOCIATES, INC. MAY REMOVE ALL INDICATION OF THE DOCUMENT'S AUTHORITY ON THE MAGNETIC MEDIA. PRINTED REPRESENTATIONS OF THE DRAWINGS AND SPECIFICATIONS ISSUED SHALL BE THE ONLY RECORD COPIES OF ALLEN & MAJOR ASSOCIATES, INC.'S WORK PRODUCT.

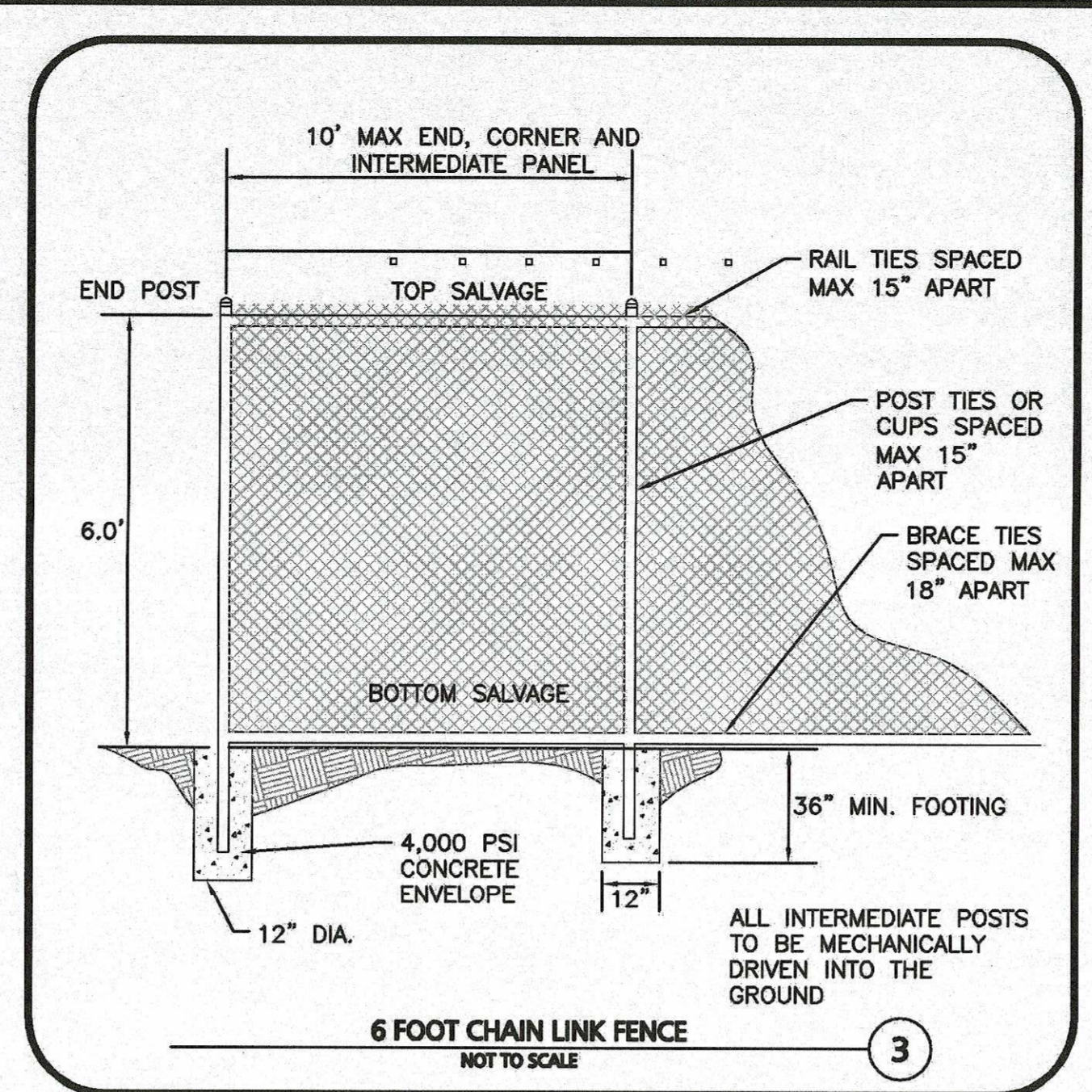
DRAWING TITLE: CIVIL DETAILS
SHEET NO.: C-502



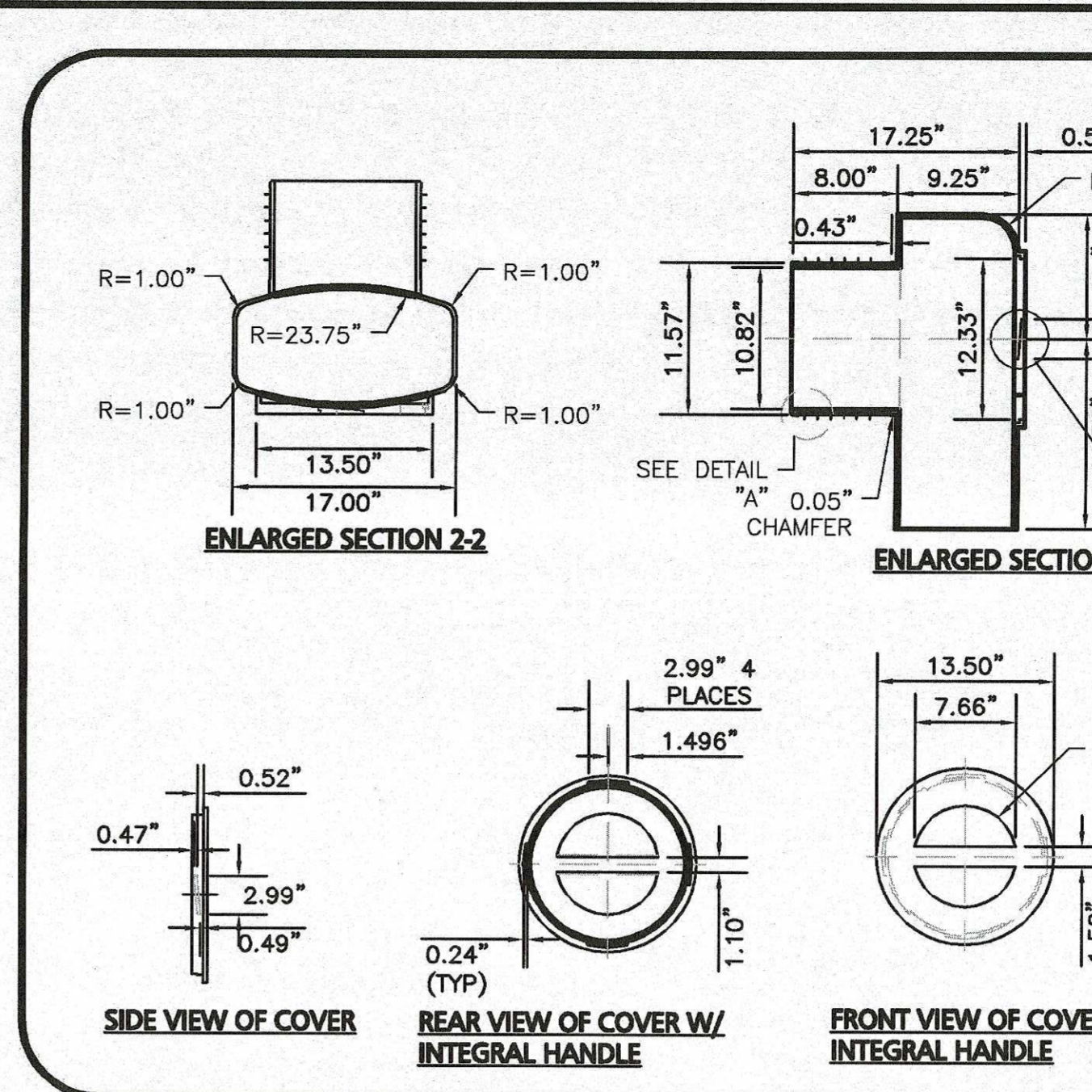
FOOTING PERIMETER DRAINAGE
NOT TO SCALE



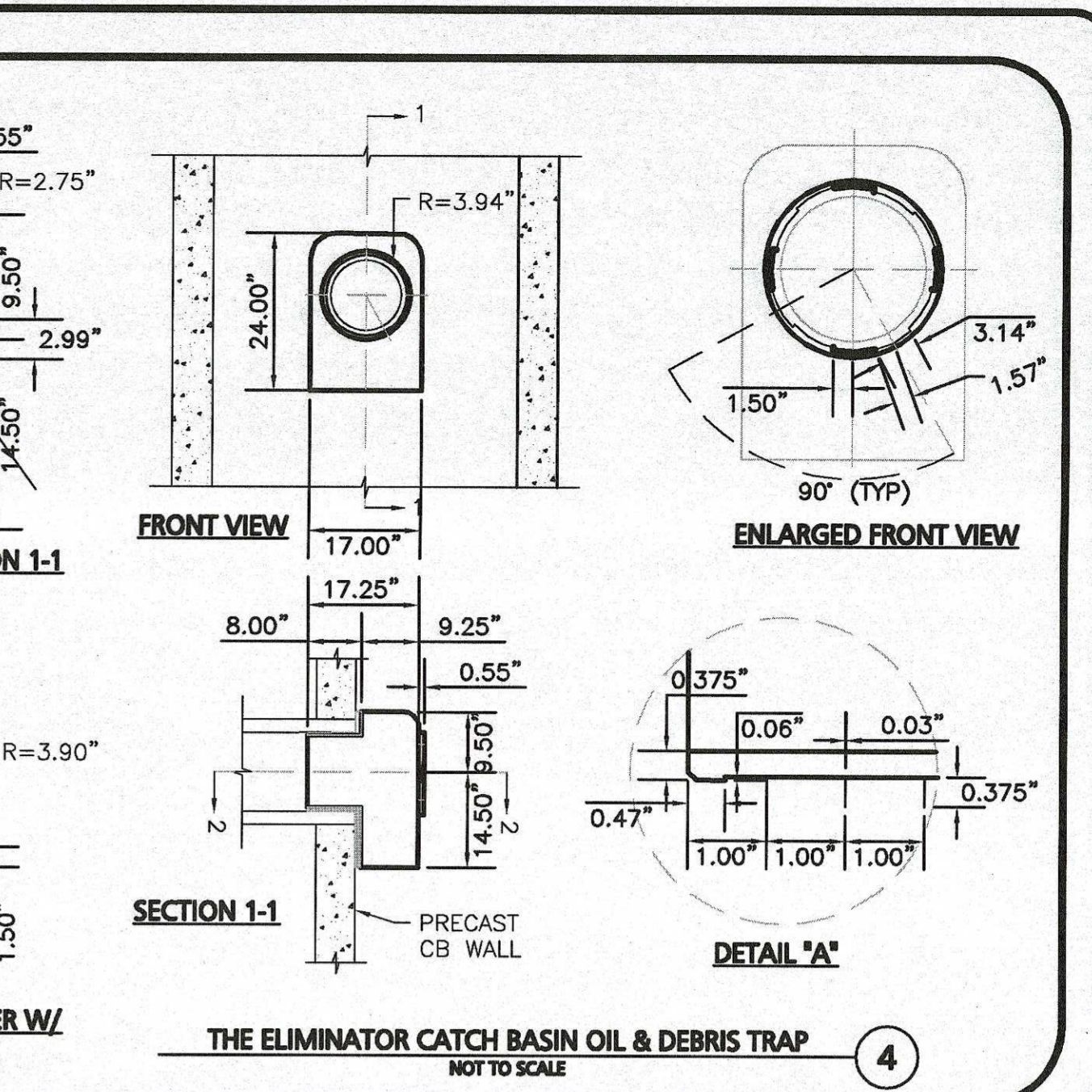
TRANSFORMER PAD DETAIL
NOT TO SCALE



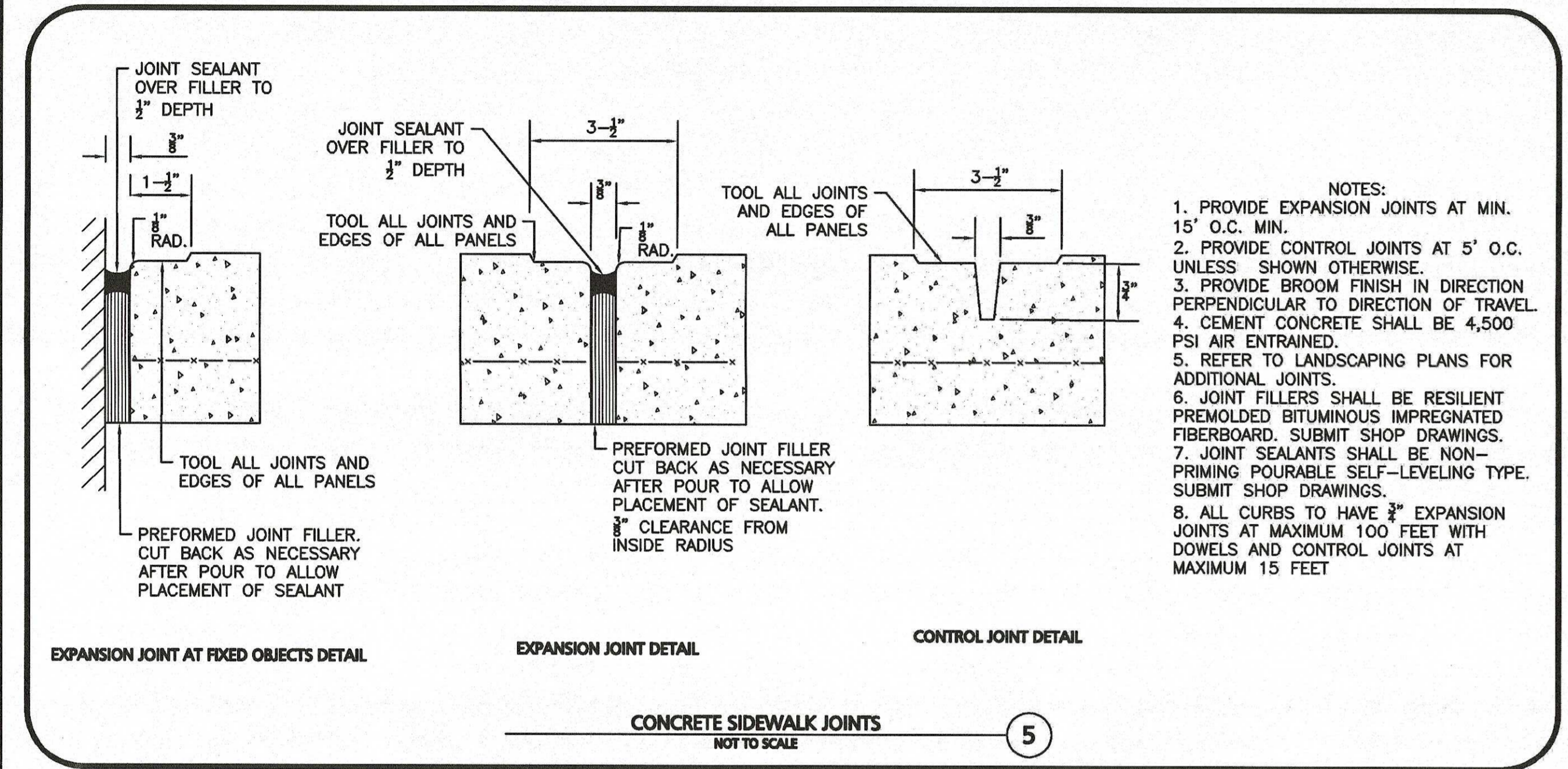
6 FOOT CHAIN LINK FENCE
NOT TO SCALE



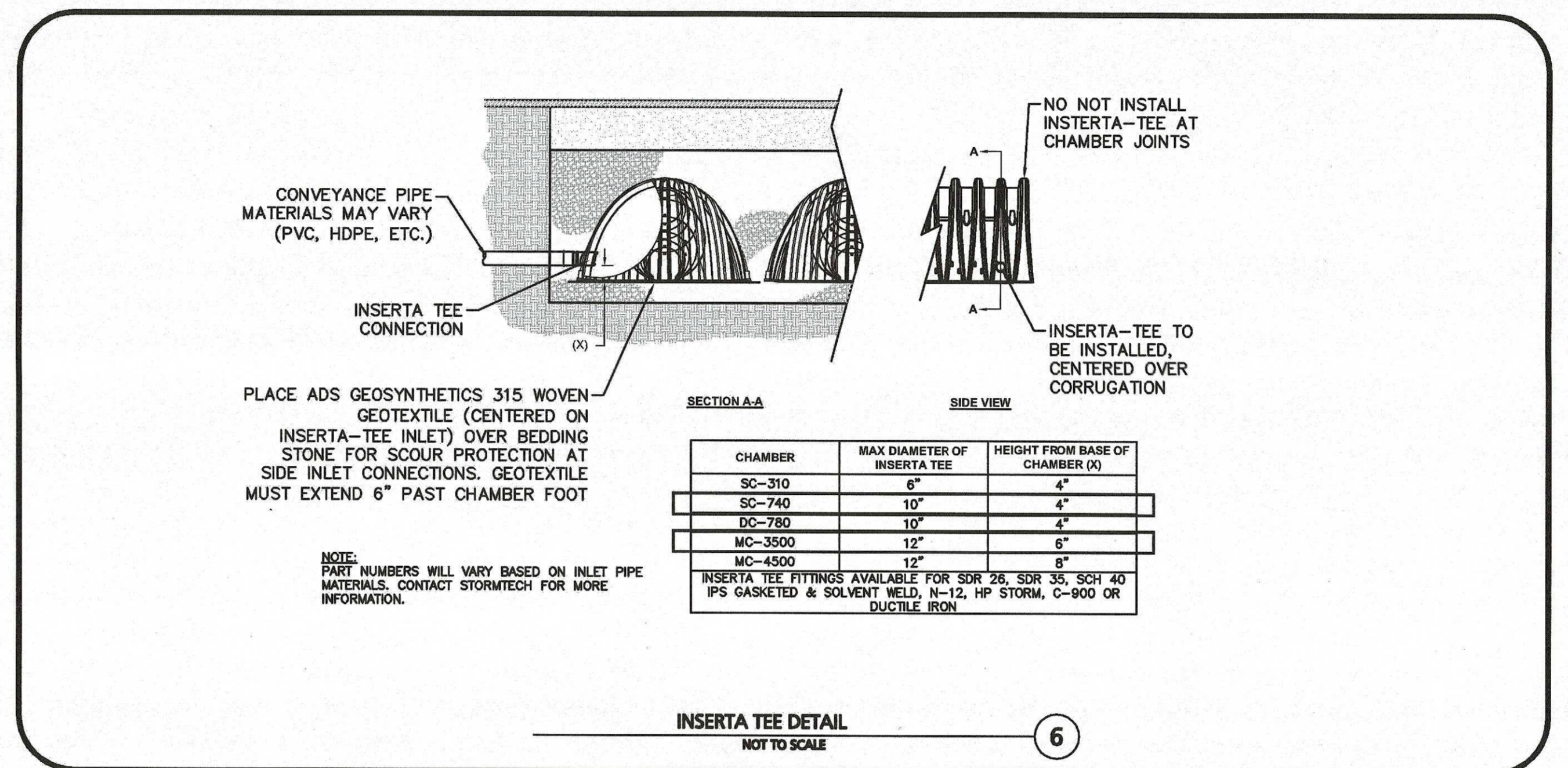
ENLARGED SECTION 2-2
ENLARGED SECTION 1-1
SECTION 1-1
DETAIL \"A\"
THE ELIMINATOR CATCH BASIN OIL & DEBRIS TRAP
NOT TO SCALE



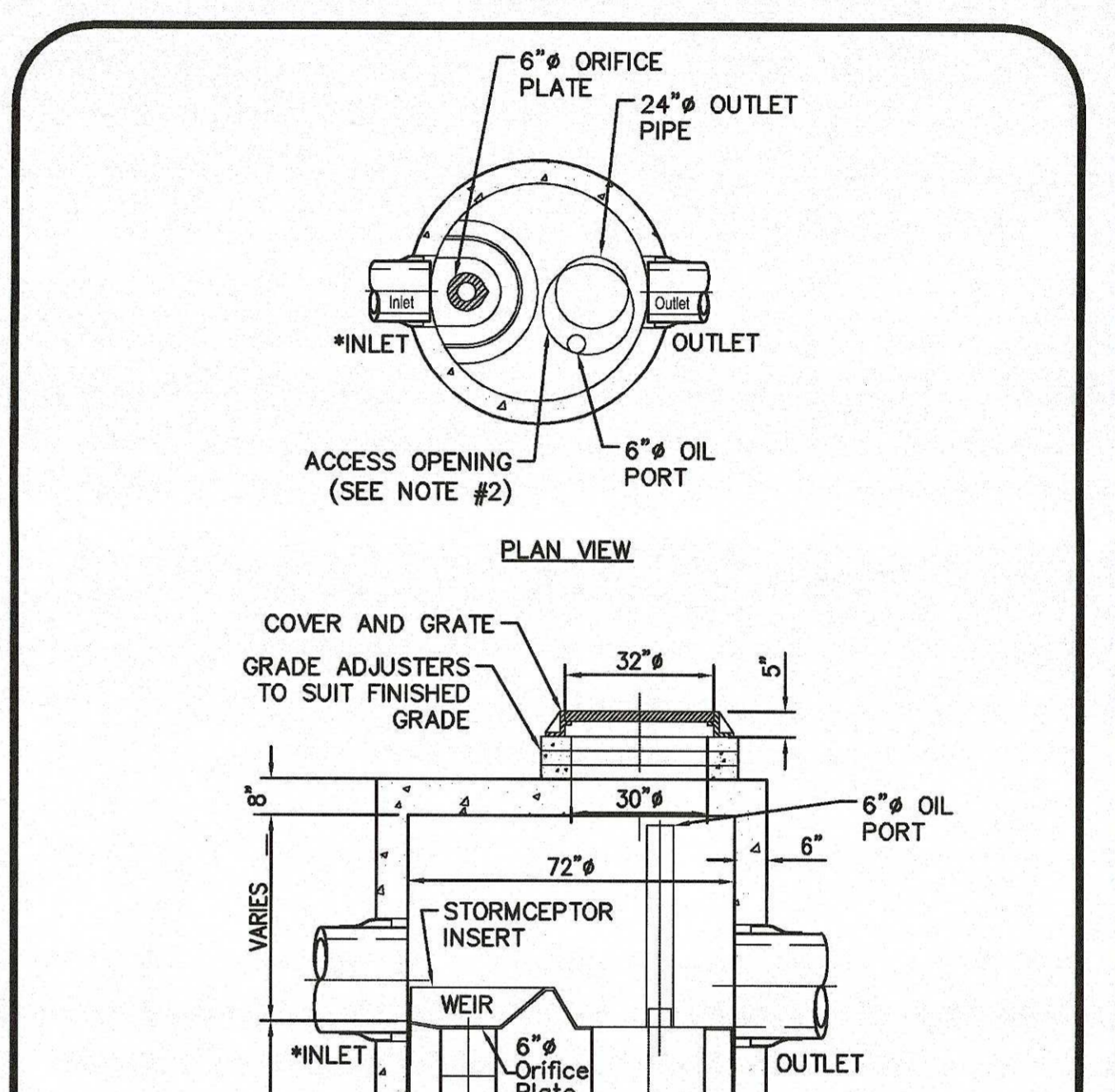
FRONT VIEW
ENLARGED FRONT VIEW
SECTION 1-1
DETAIL \"A\"
THE ELIMINATOR CATCH BASIN OIL & DEBRIS TRAP
NOT TO SCALE



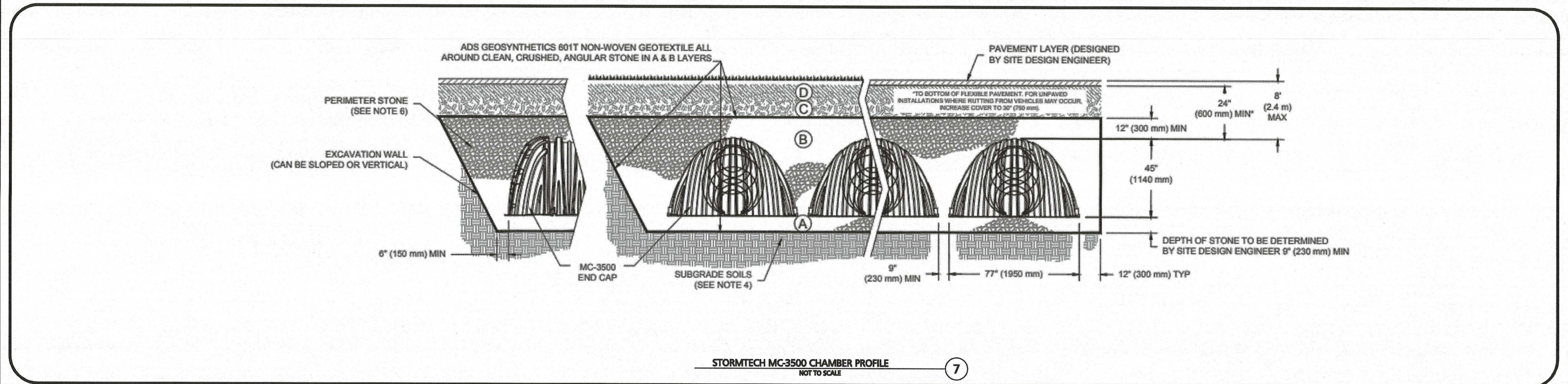
CONCRETE SIDEWALK JOINTS
NOT TO SCALE



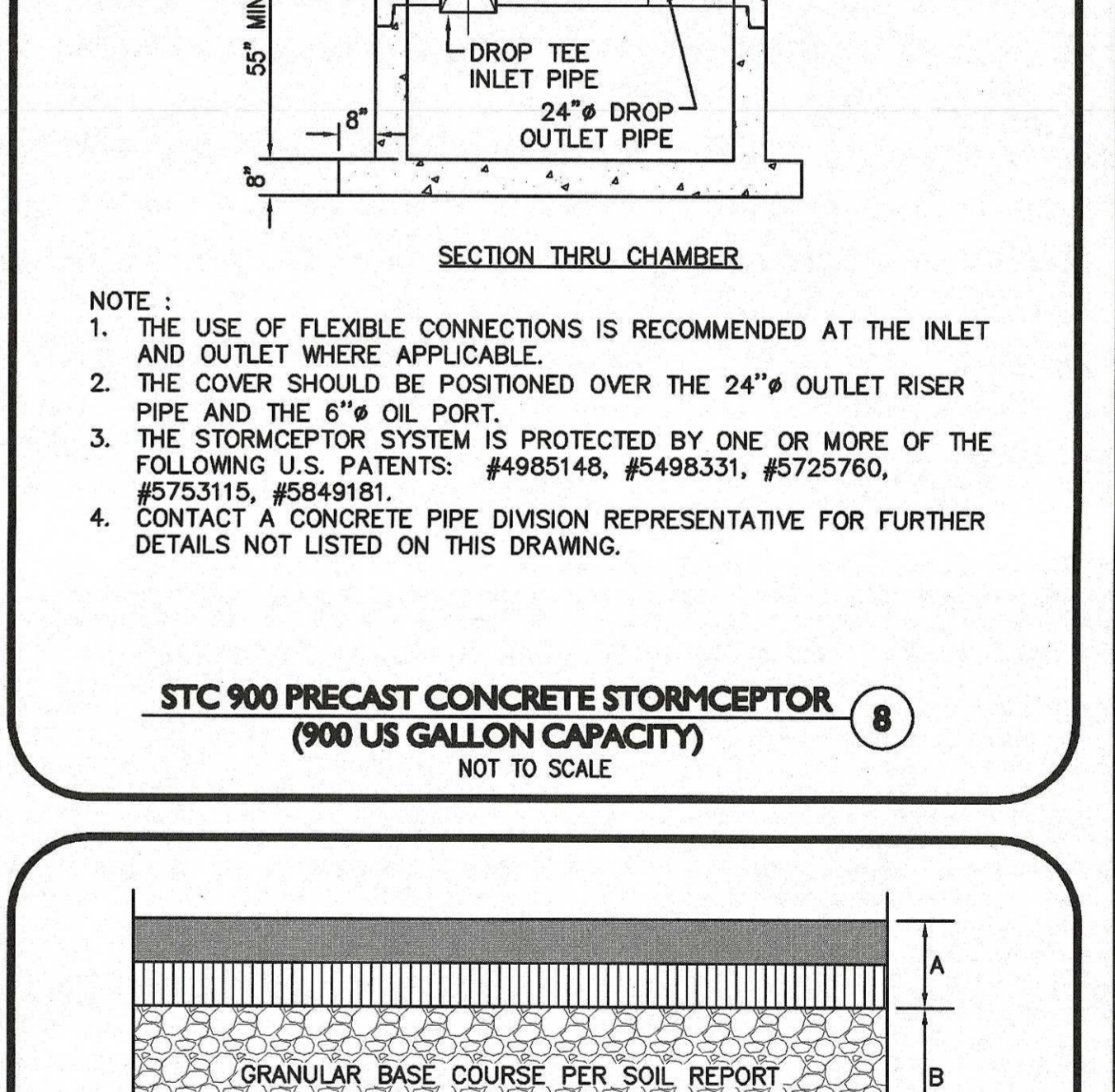
INSERTA TEE DETAIL
NOT TO SCALE



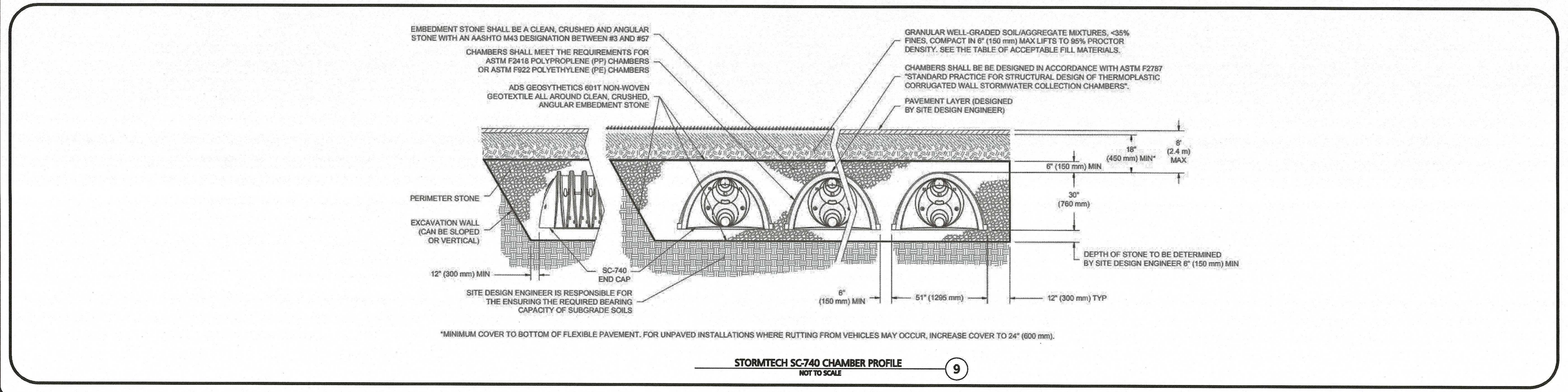
SECTION THRU CHAMBER



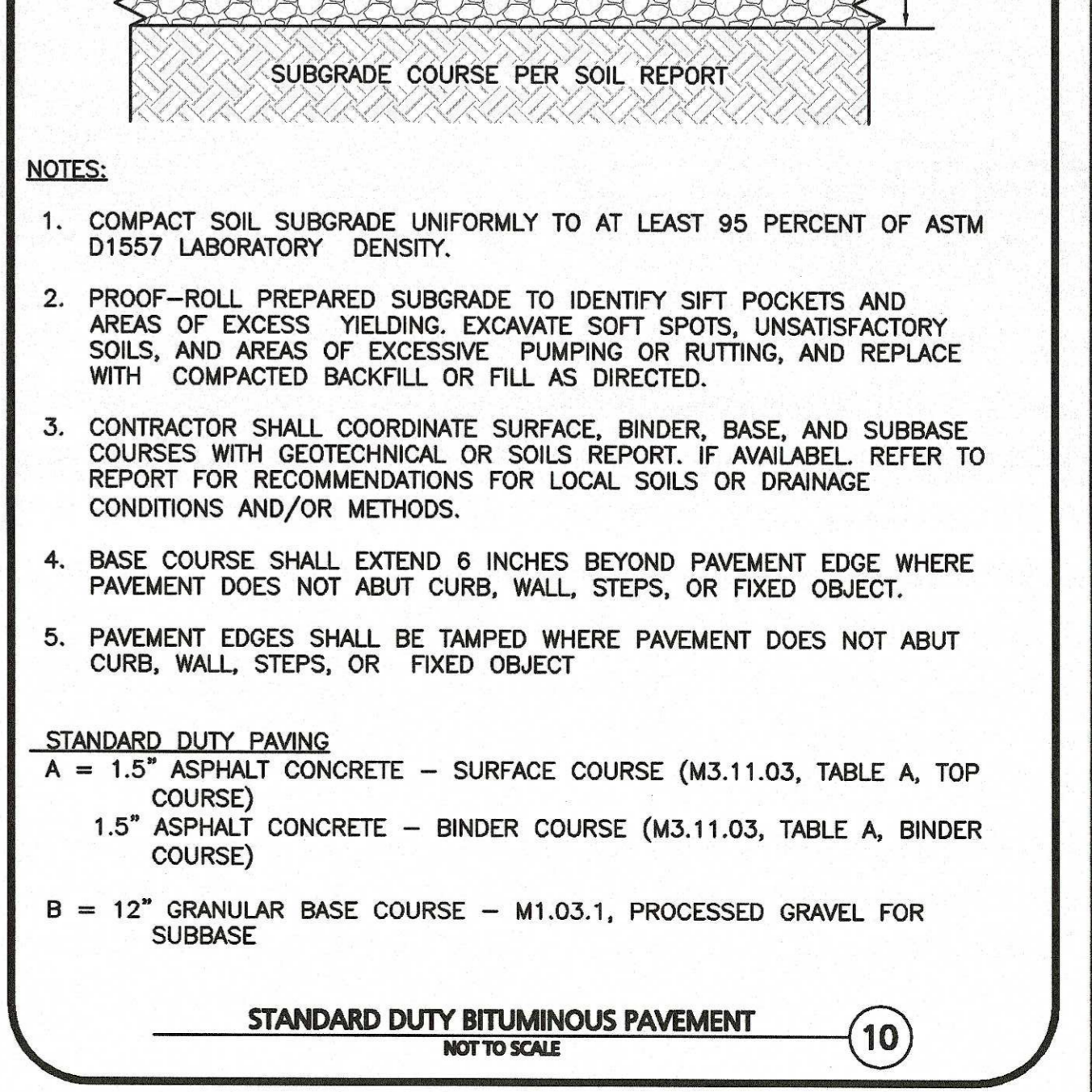
STORMTECH MC-3500 CHAMBER PROFILE
NOT TO SCALE



STANDARD DUTY PAVEMENT
NOT TO SCALE



STORMTECH SC-740 CHAMBER PROFILE
NOT TO SCALE



STANDARD DUTY PAVEMENT
NOT TO SCALE

STC 900 PRECAST CONCRETE STORMCEPTOR
(900 US GALLON CAPACITY)
NOT TO SCALE

NOTE:

1. THE USE OF FLEXIBLE CONNECTIONS IS RECOMMENDED AT THE INLET AND OUTLET WHERE APPLICABLE.
2. THE COVER SHOULD BE POSITIONED OVER THE 24\"/>

NOTES:

1. COMPACT SOIL SUBGRADE UNIFORMLY TO AT LEAST 95 PERCENT OF ASTM D1557 LABORATORY DENSITY.
2. PROOF-ROLL PREPARED SUBGRADE TO IDENTIFY SIFT POCKETS AND AREAS OF EXCESS YIELDING. EXCAVATE SOFT SPOTS, UNSATISFACTORY SOILS, AND AREAS OF EXCESSIVE PUMPING OR RUTTING, AND REPLACE WITH COMPACTED BACKFILL OR FILL AS DIRECTED.
3. CONTRACTOR SHALL COORDINATE SURFACE, BINDER, BASE, AND SUBBASE COURSES WITH GEOTECHNICAL OR SOILS REPORT. IF AVAILABLE REFER TO REPORT FOR RECOMMENDATIONS FOR LOCAL SOILS OR DRAINAGE CONDITIONS AND/OR METHODS.
4. BASE COURSE SHALL EXTEND 6 INCHES BEYOND PAVEMENT EDGE WHERE PAVEMENT DOES NOT ABUT CURB, WALL, STEPS, OR FIXED OBJECT.
5. PAVEMENT EDGES SHALL BE TAMPED WHERE PAVEMENT DOES NOT ABUT CURB, WALL, STEPS, OR FIXED OBJECT.

STANDARD DUTY PAVEMENT

A = 1.5\"/>

PROFESSIONAL ENGINEER FOR ALLEN & MAJOR ASSOCIATES, INC.

REVISIONS:

REV	DATE	DESCRIPTION
5	05-18-20	REVISED PER CITY COMMENTS
4	02-20-20	VARIOUS REVISIONS
3	02-03-20	VARIOUS REVISIONS
2	01-31-20	RESUBMITTED FOR LOCAL APPROVAL
1	12-20-19	ISSUED FOR LOCAL APPROVAL

APPLICANT/OWNER:
WP MARLBOROUGH MA OWNER, LLC
9 WEST BROAD STREET, SUITE 800
STAMFORD, CT 06902

PROJECT:
MULTI-FAMILY DEVELOPMENT
339 BOSTON POST ROAD EAST
MARLBOROUGH, MA

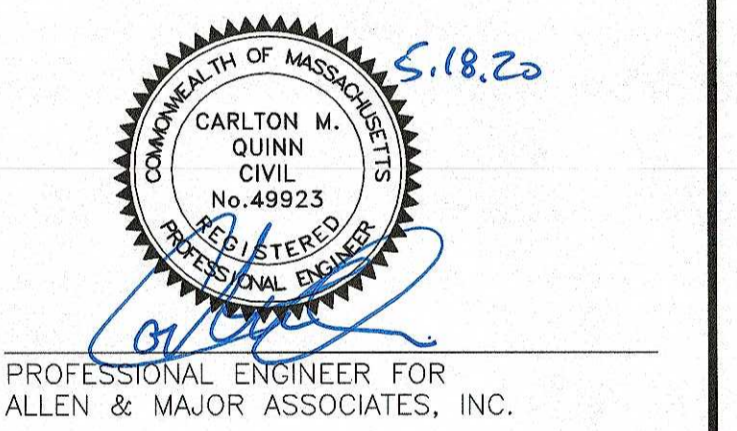
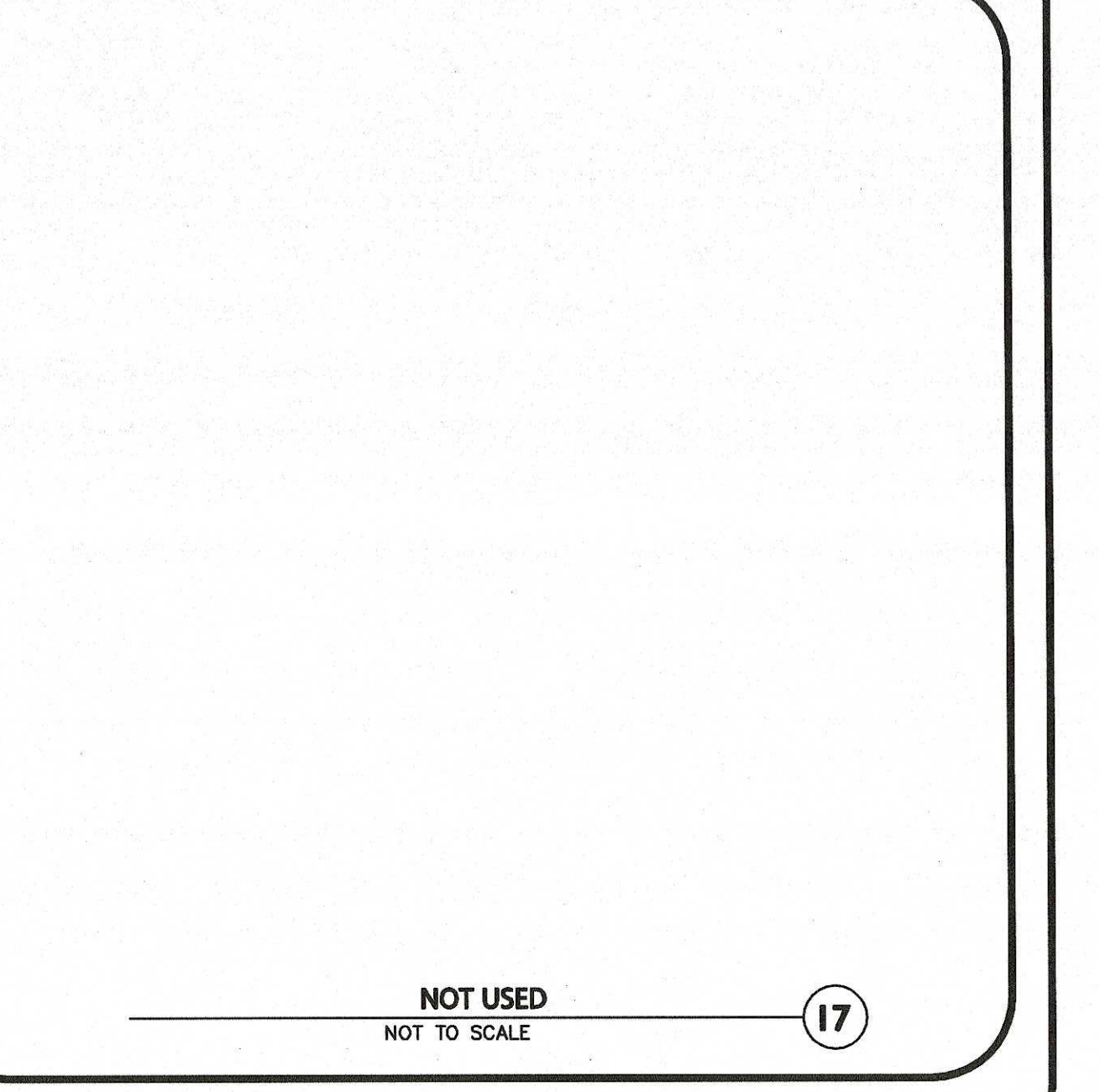
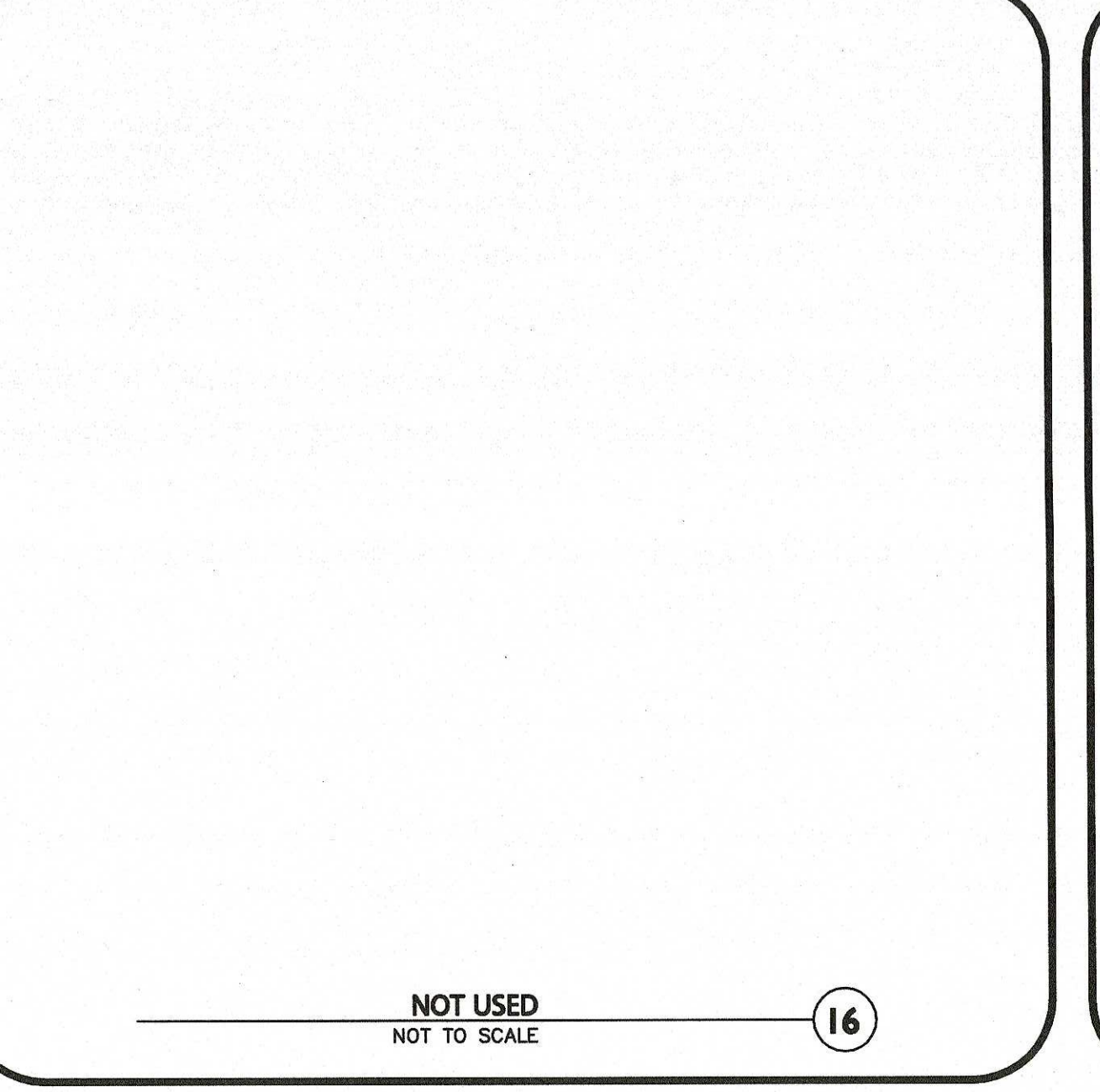
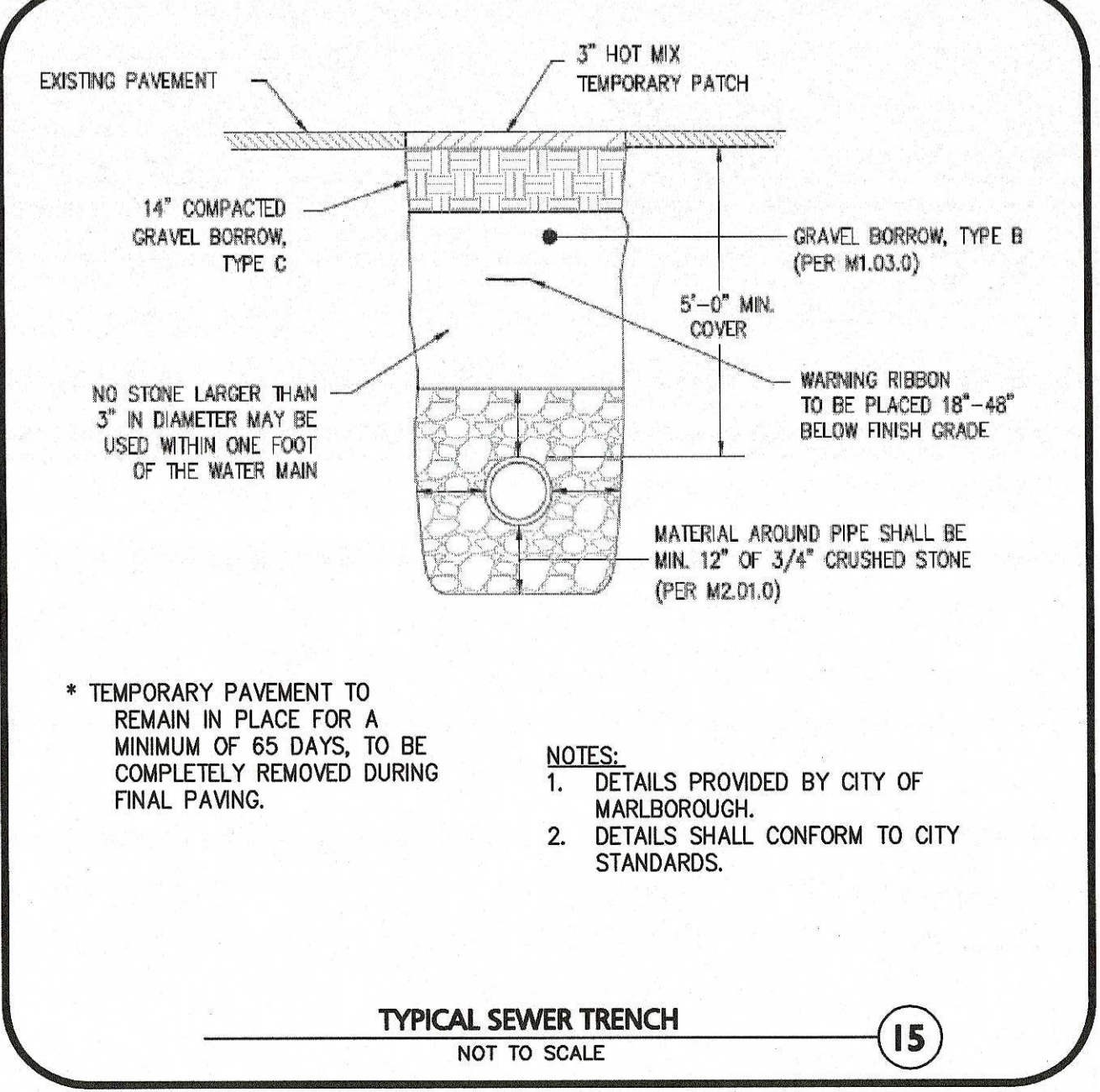
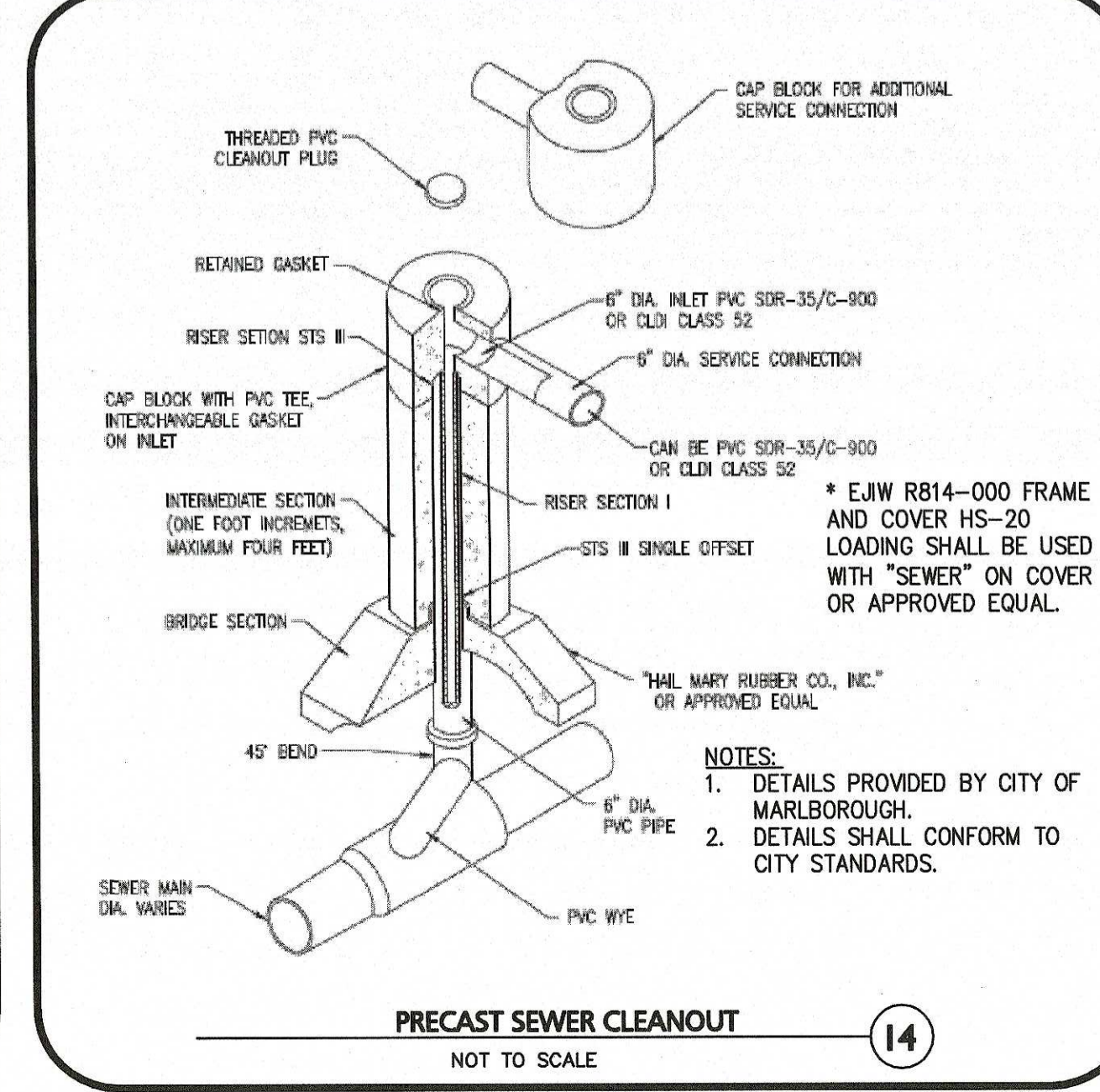
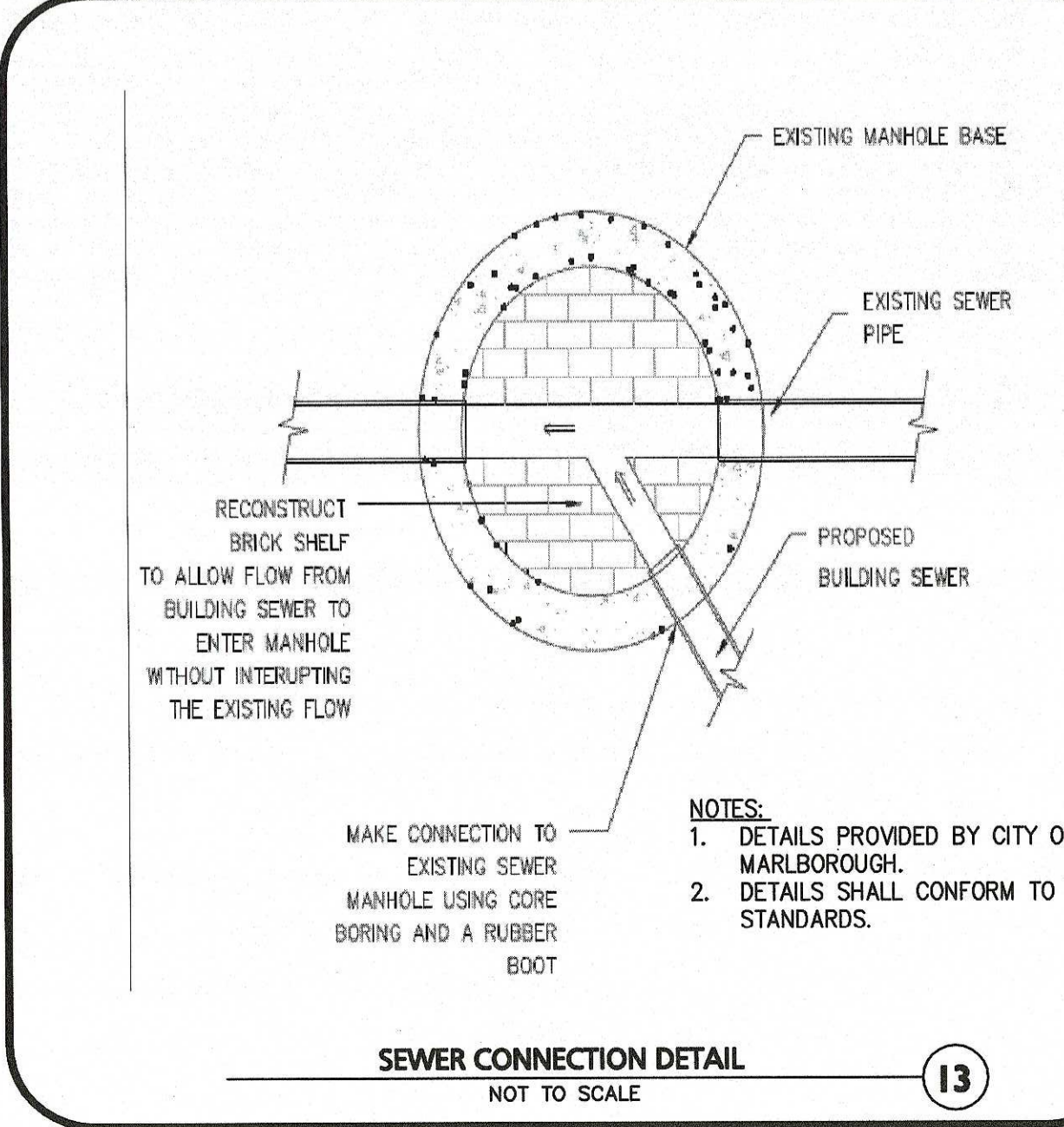
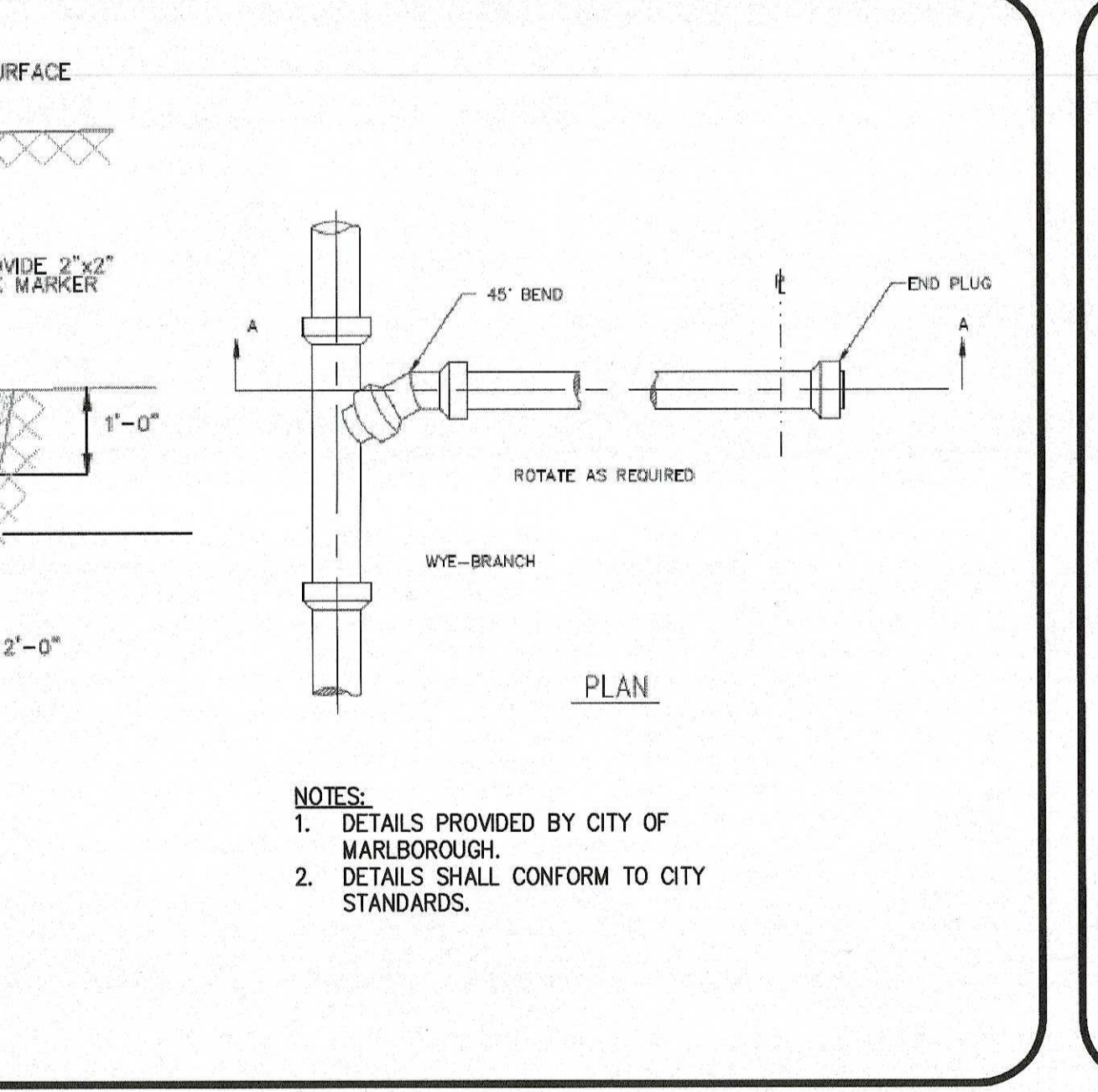
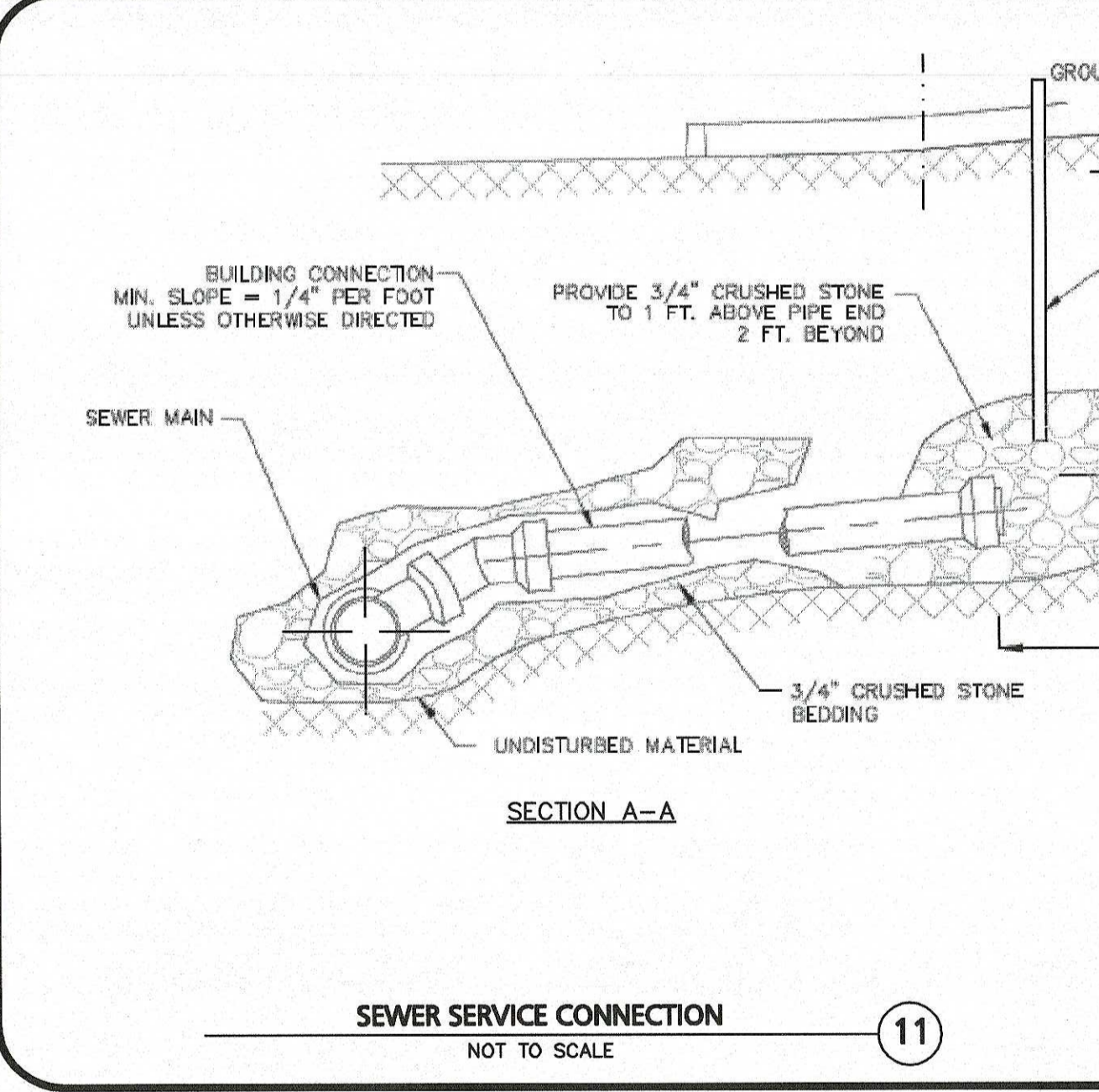
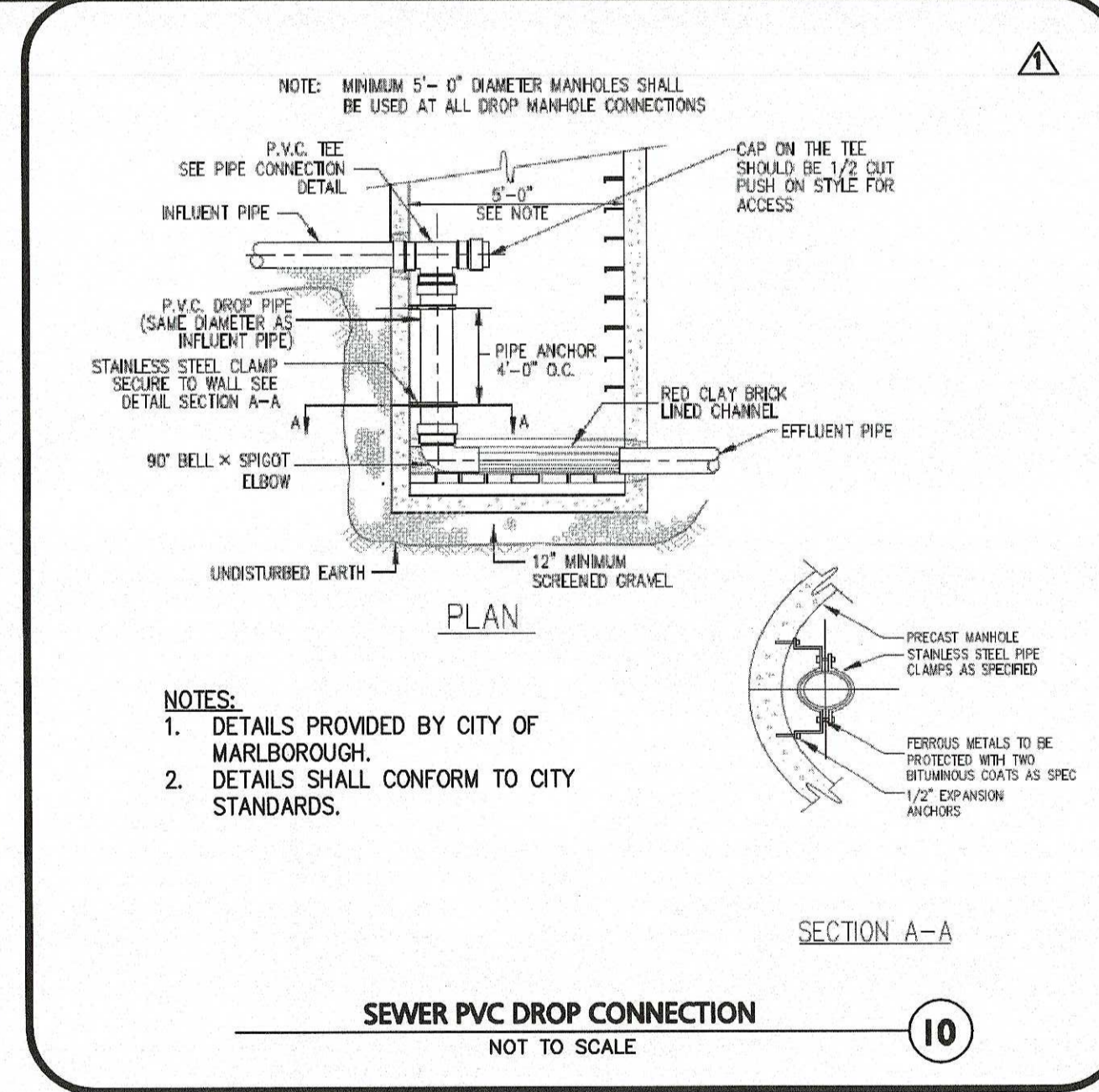
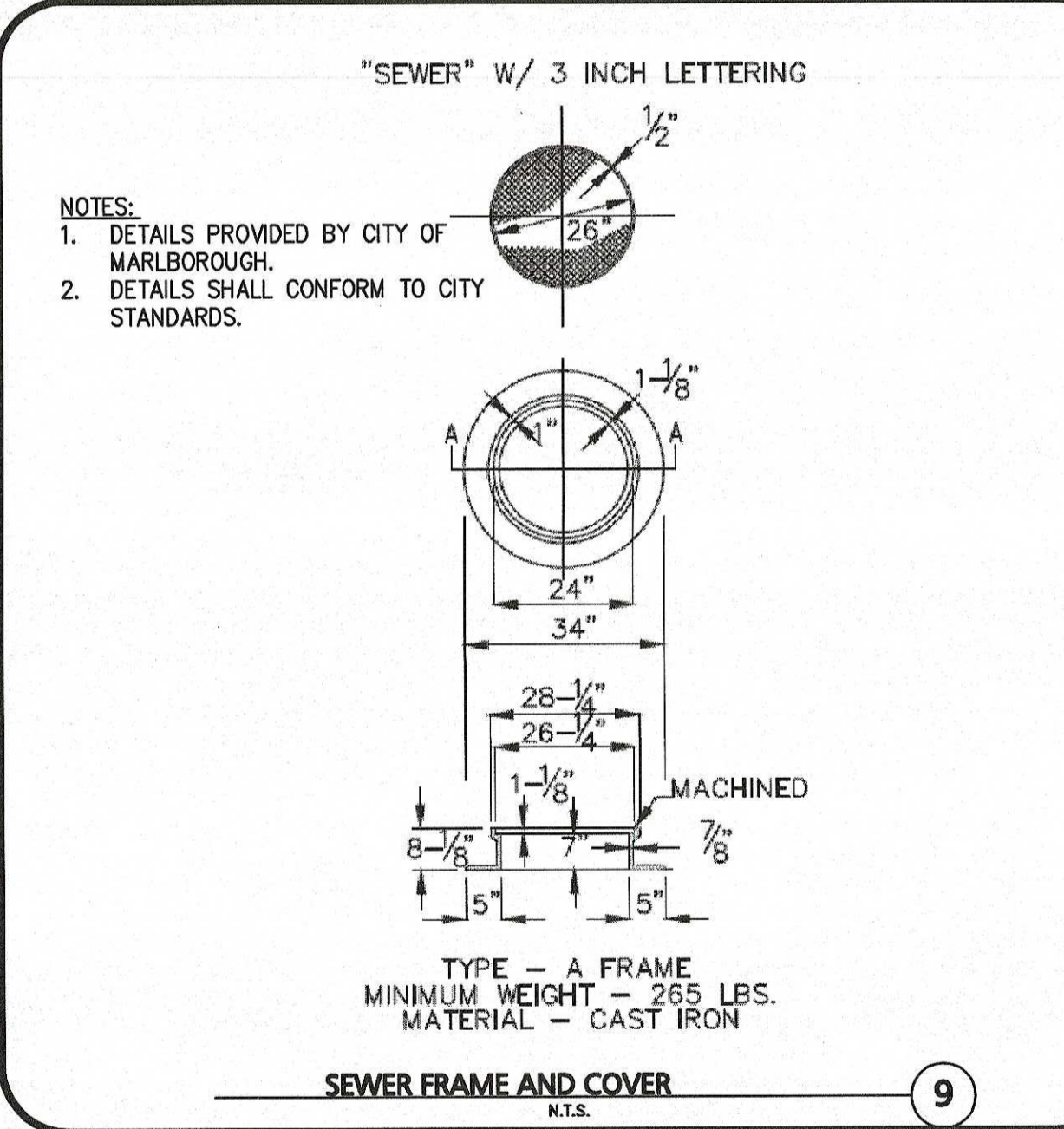
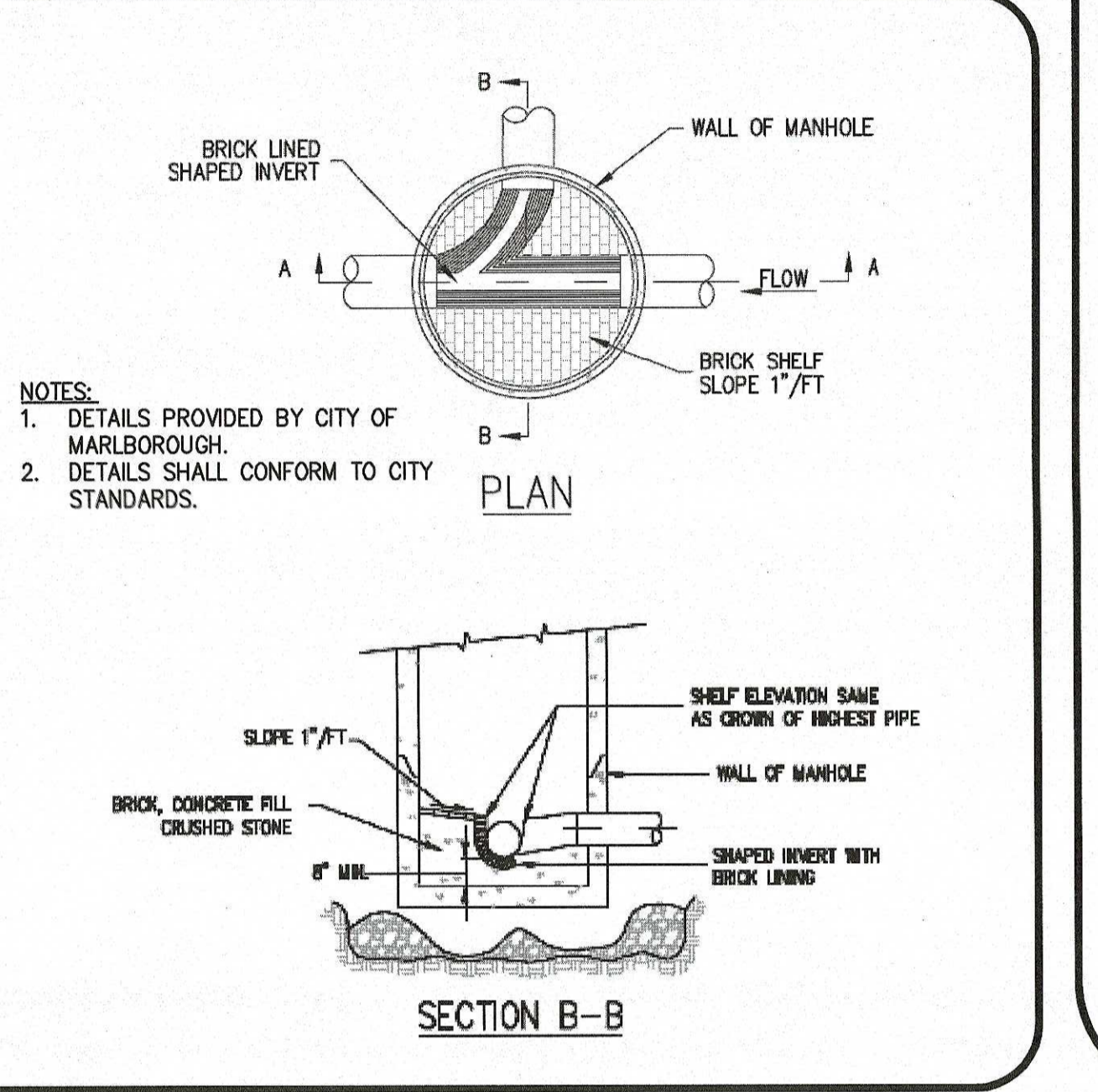
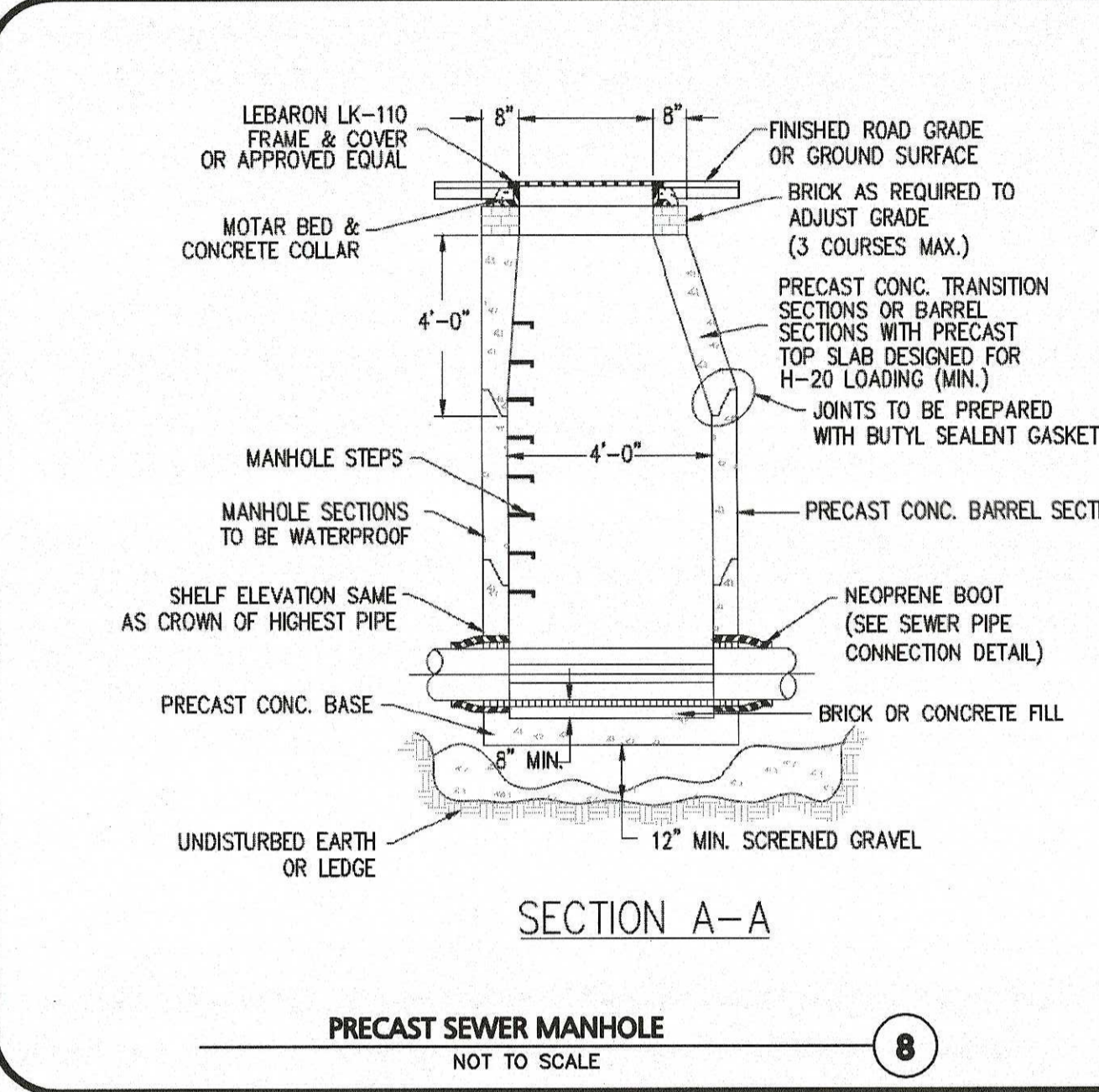
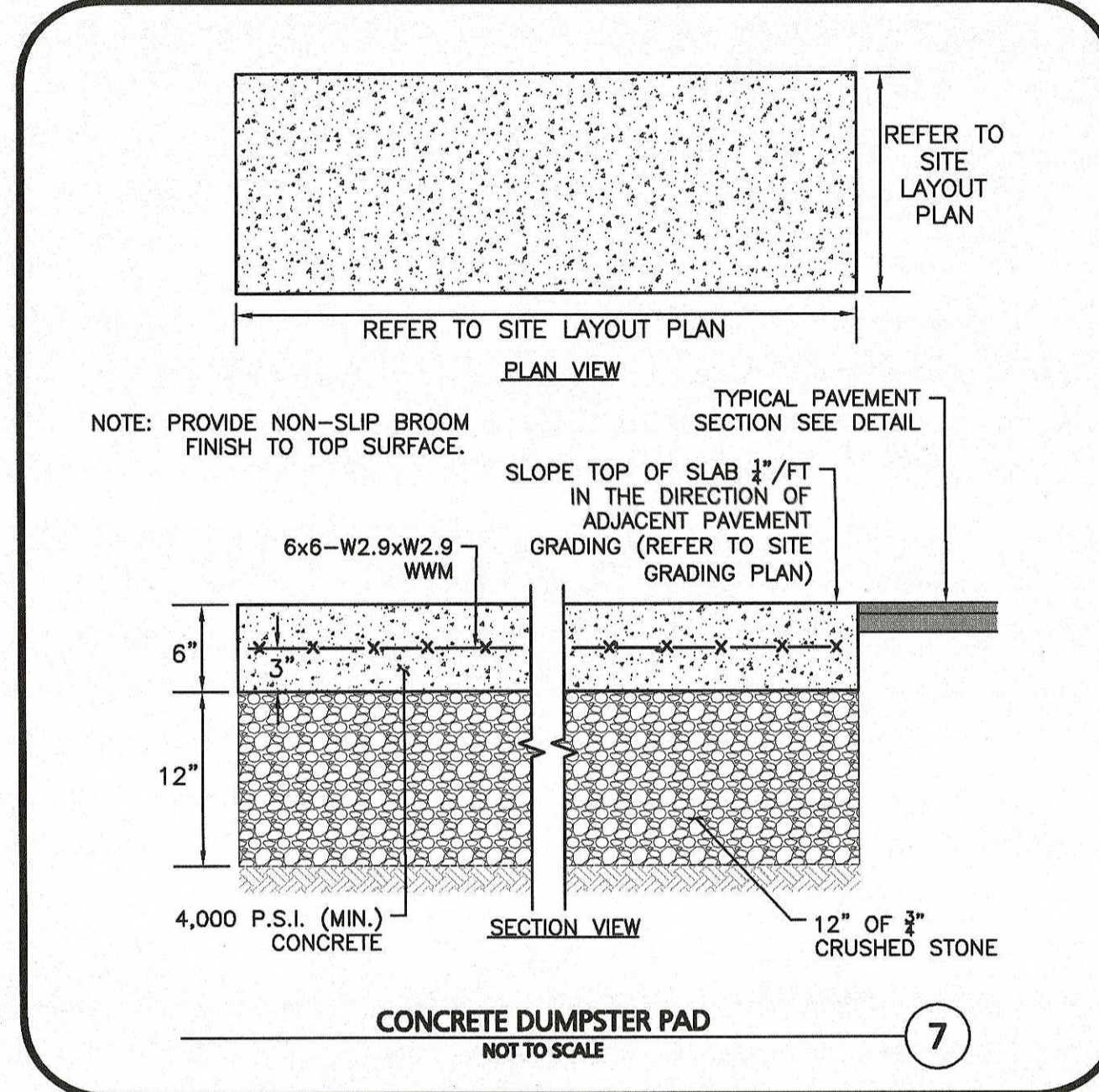
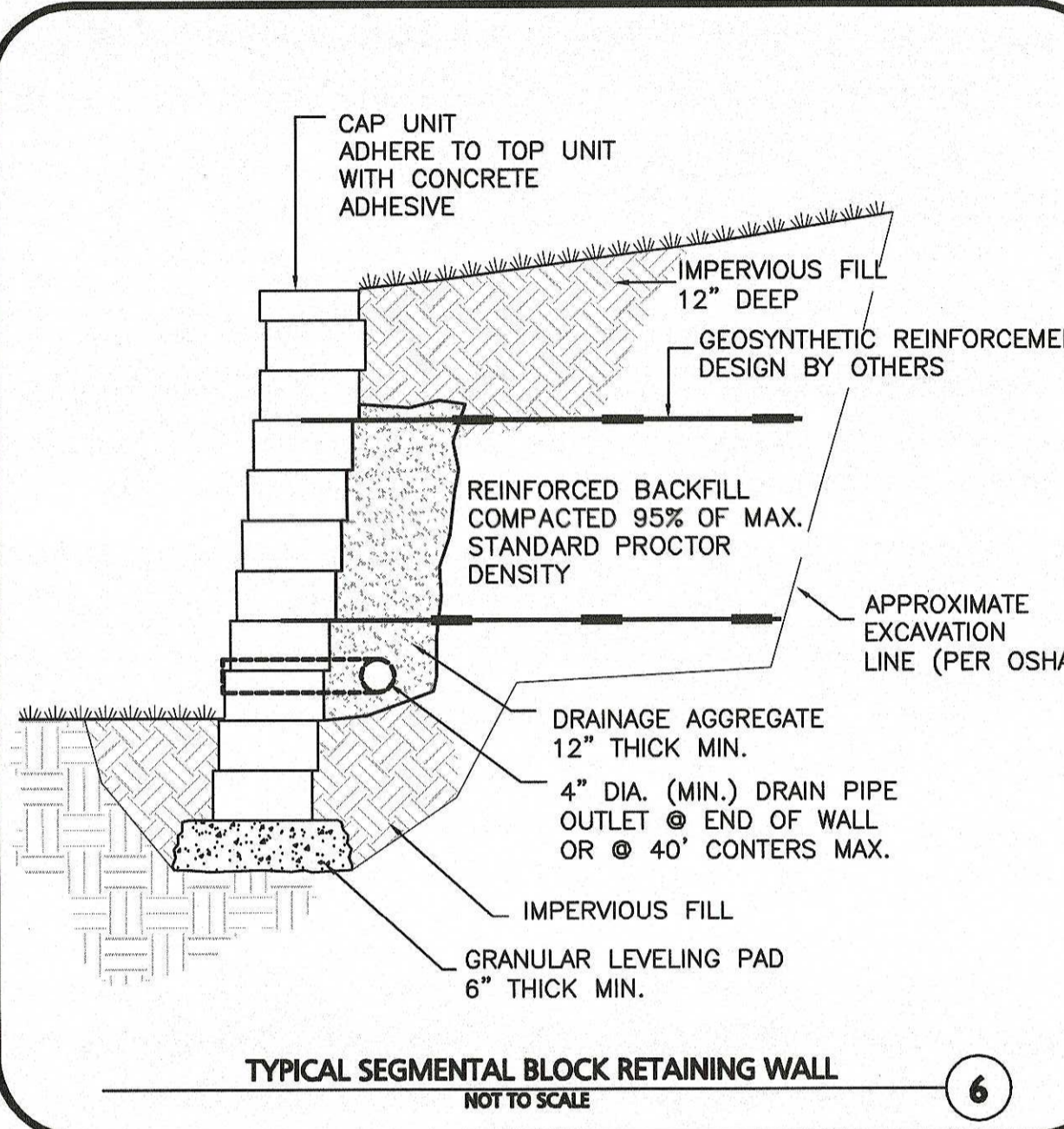
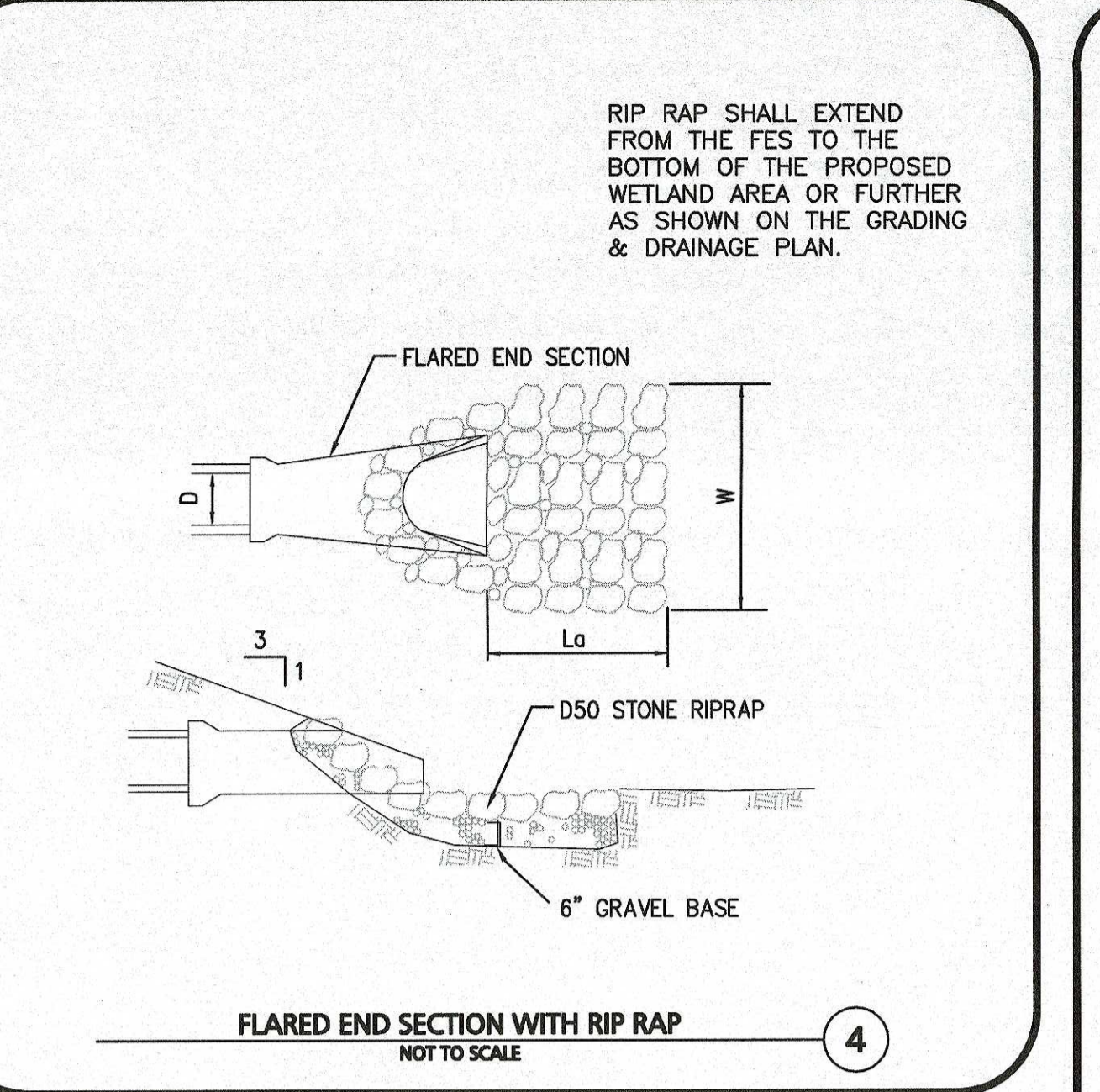
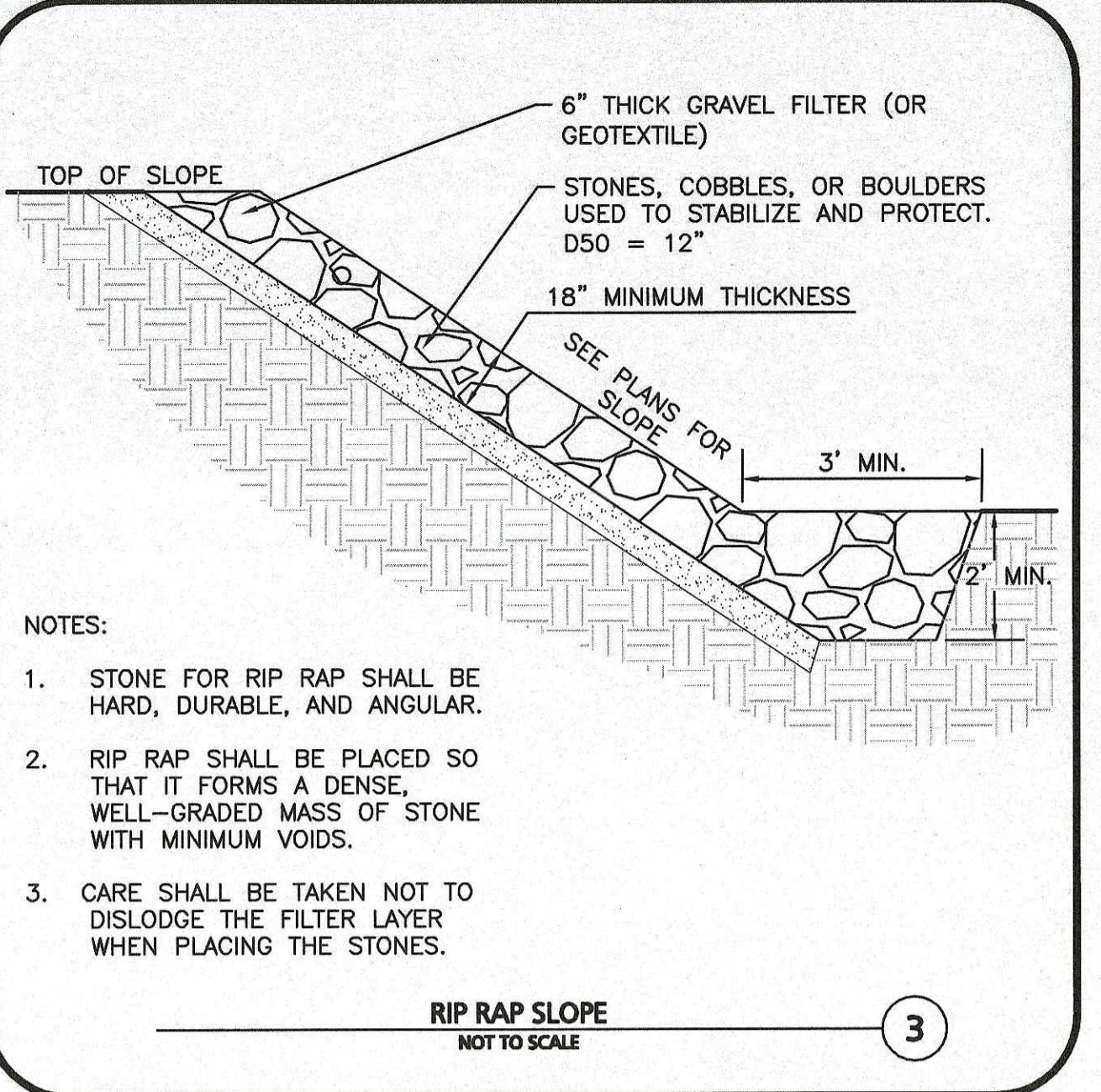
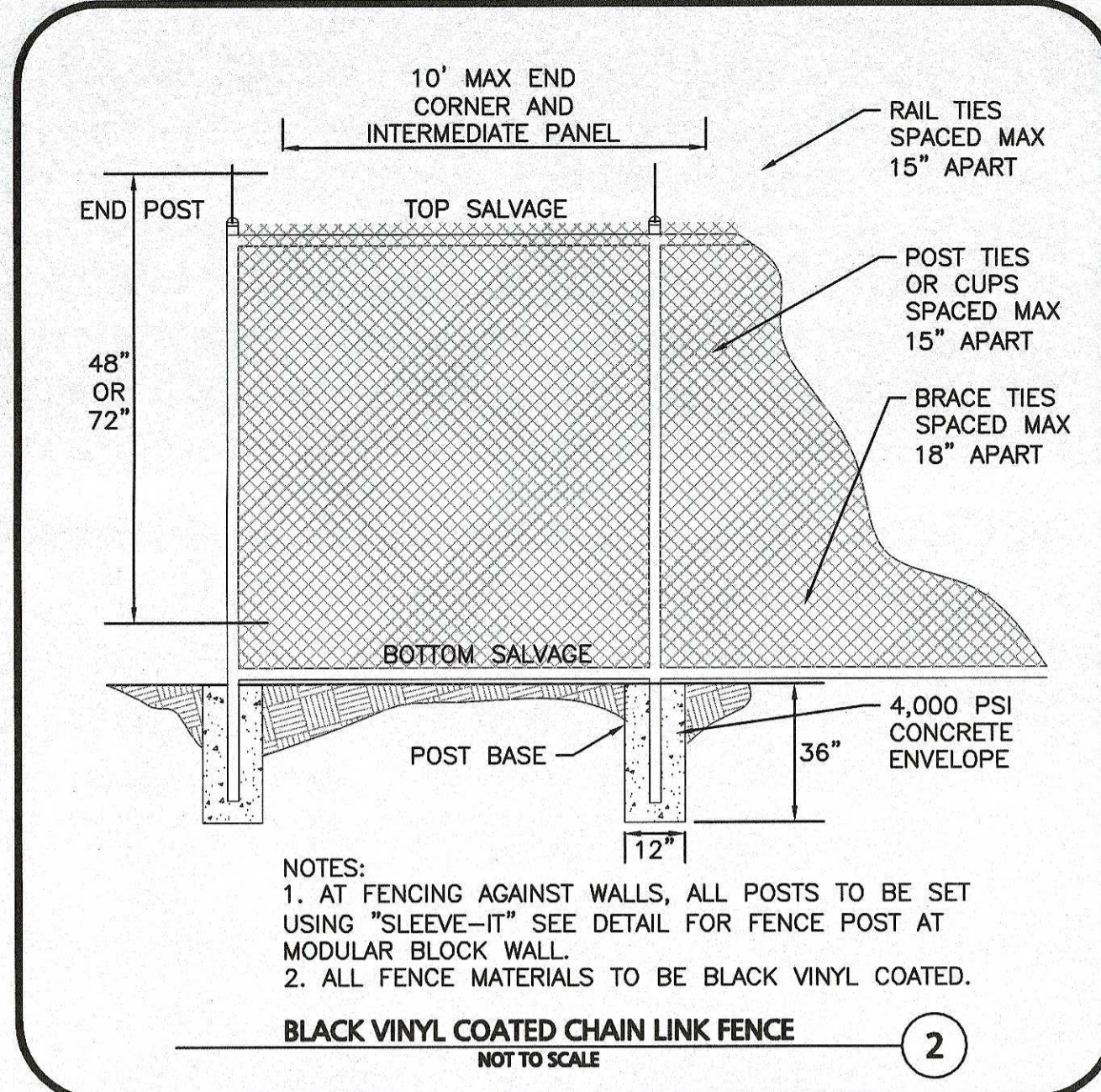
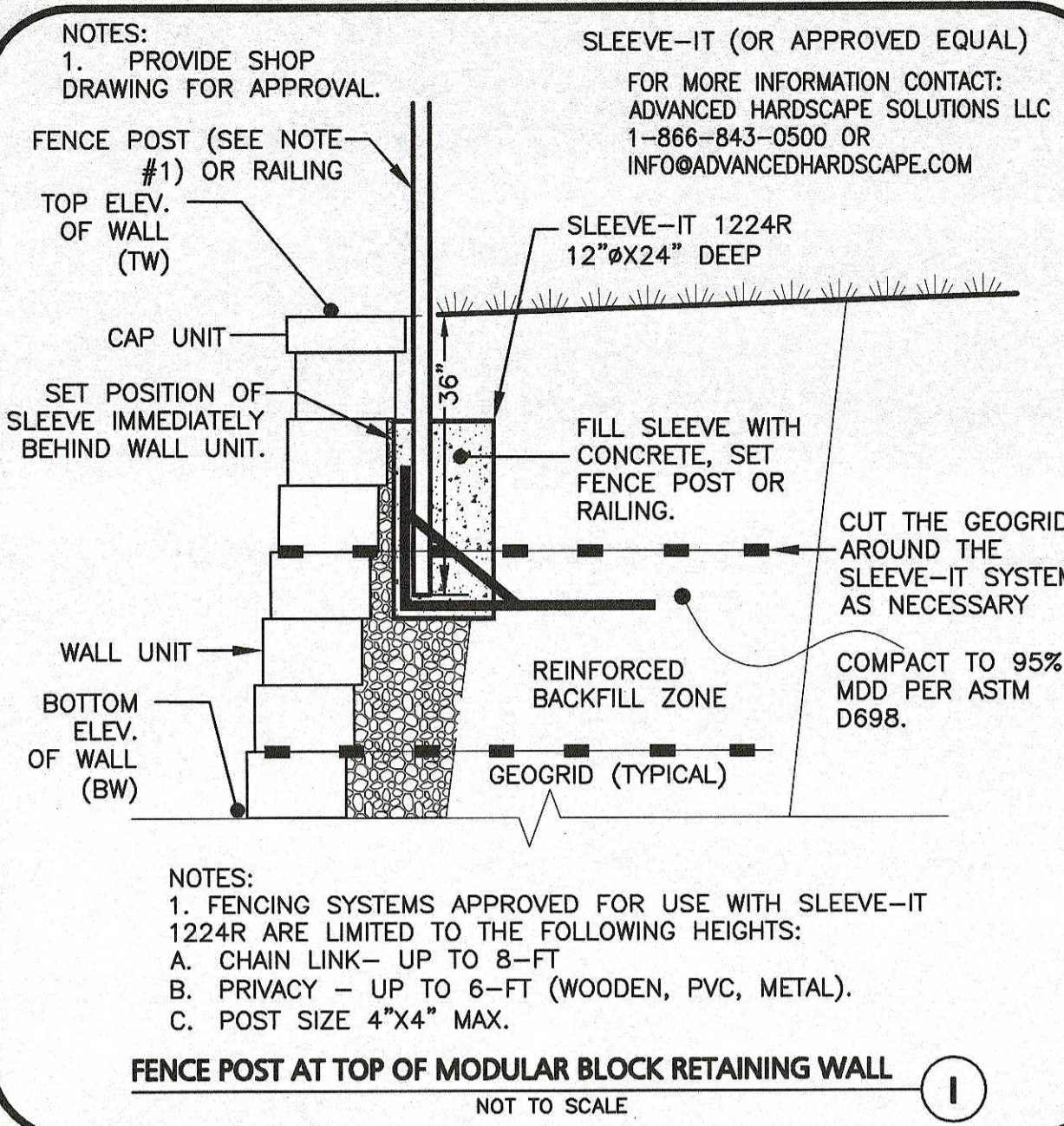
PROJECT NO.: 2658-01 **DATE:** 12-20-2019
SCALE: AS SHOWN **DWG. NAME:** C-2658-01
DESIGNED BY: SJL/DMR **CHECKED BY:** CMQ

PREPARED BY:

ALLEN & MAJOR ASSOCIATES, INC.
civil & structural engineering • land surveying
environmental consulting • landscape architecture
www.allenmajor.com
100 COMMERCIAL WAY, SUITE 5
WOBBURN MA 01801
TEL: (781) 935-6889
FAX: (781) 935-2896

DRAWING TITLE: CIVIL DETAILS **SHEET No.:** C-503

N:\PROJECTS\2658-01\CIVIL\DRAWINGS\CURRENT\SITE PLANS\C-2658-01-DETAILS.DWG



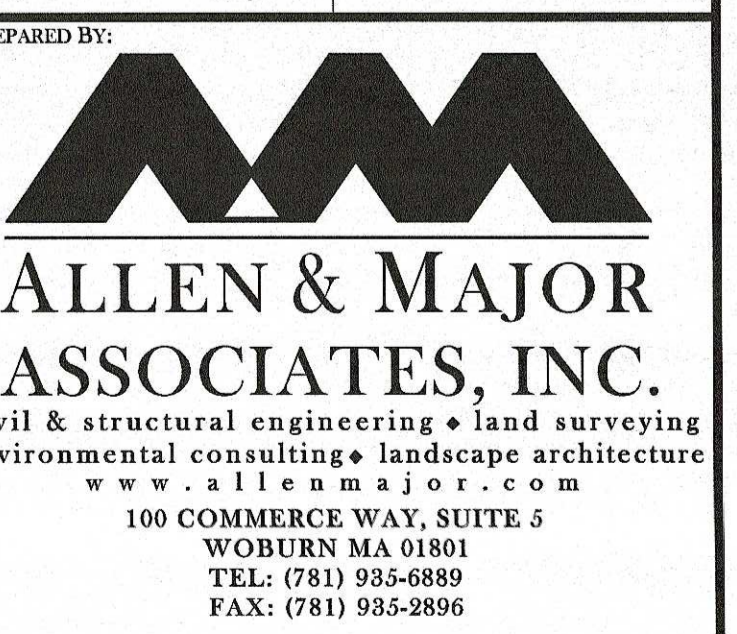
PROFESSIONAL ENGINEER FOR ALLEN & MAJOR ASSOCIATES, INC.

REV	DATE	DESCRIPTION
5	05-18-20	REVISED PER CITY COMMENTS
4	02-20-20	VARIOUS REVISIONS
3	02-03-20	VARIOUS REVISIONS
2	01-31-20	RESUBMITTED FOR LOCAL APPROVAL
1	12-20-19	ISSUED FOR LOCAL APPROVAL

APPLICANT/OWNER:
 WP MARLBOROUGH MA OWNER, LLC
 9 WEST BROAD STREET, SUITE 800
 STAMFORD, CT 06902

PROJECT:
 MULTI-FAMILY DEVELOPMENT
 339 BOSTON POST ROAD EAST
 MARLBOROUGH, MA

PROJECT NO.	2658-01	DATE:	12-20-2019
SCALE:	AS SHOWN	DWG. NAME:	C-2658-01
DESIGNED BY:	SJL/DWR	CHECKED BY:	CMQ

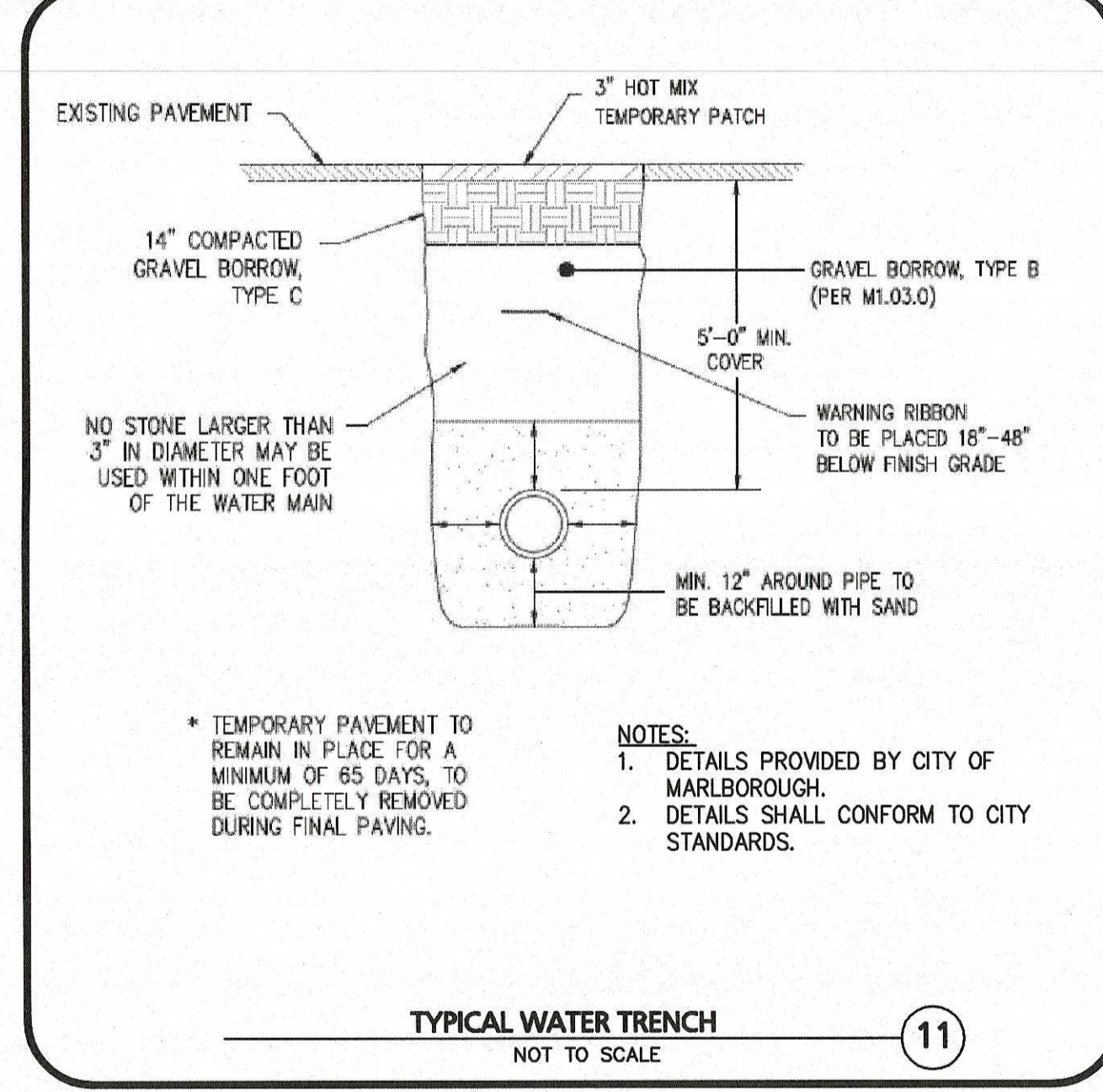
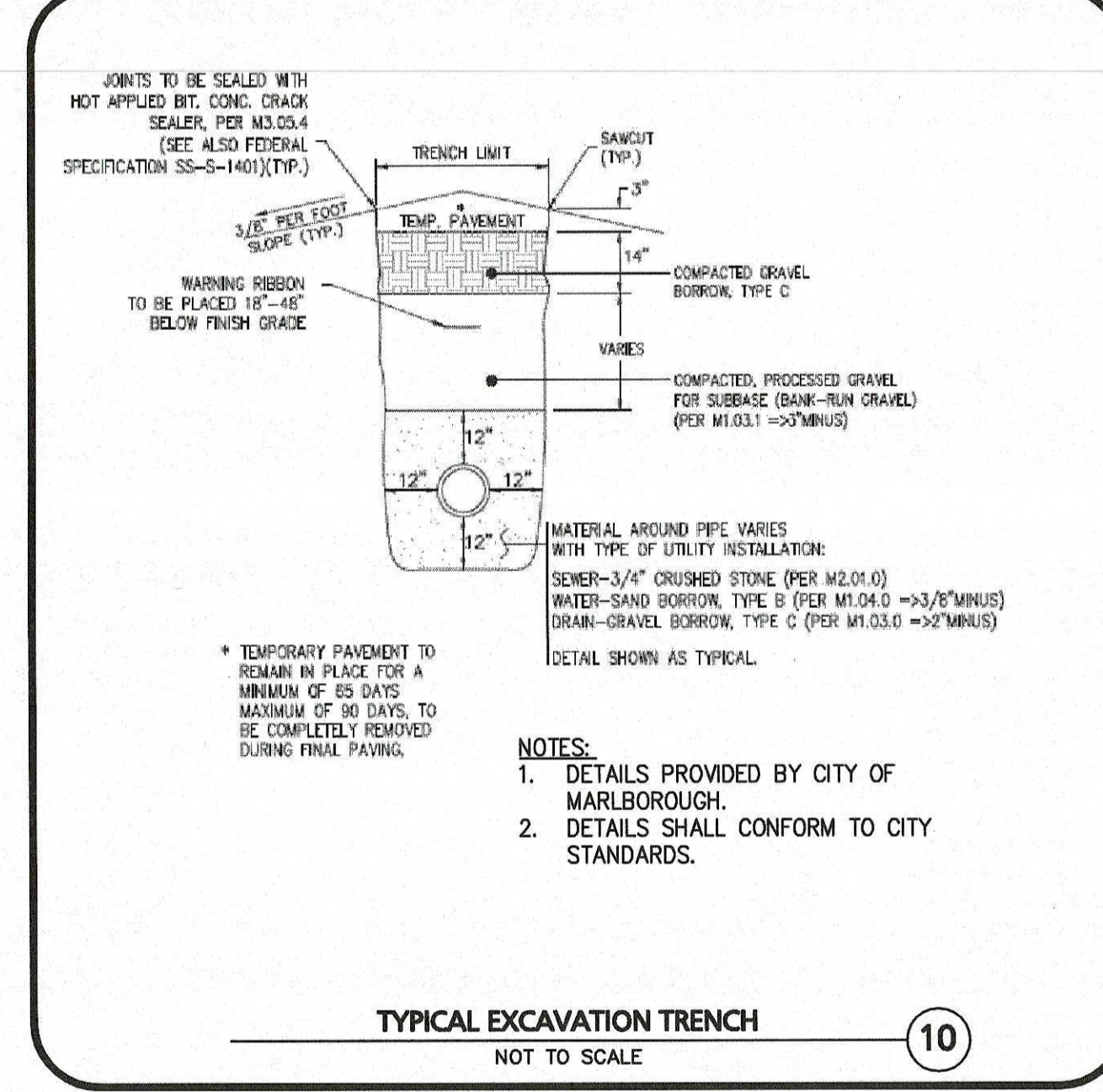
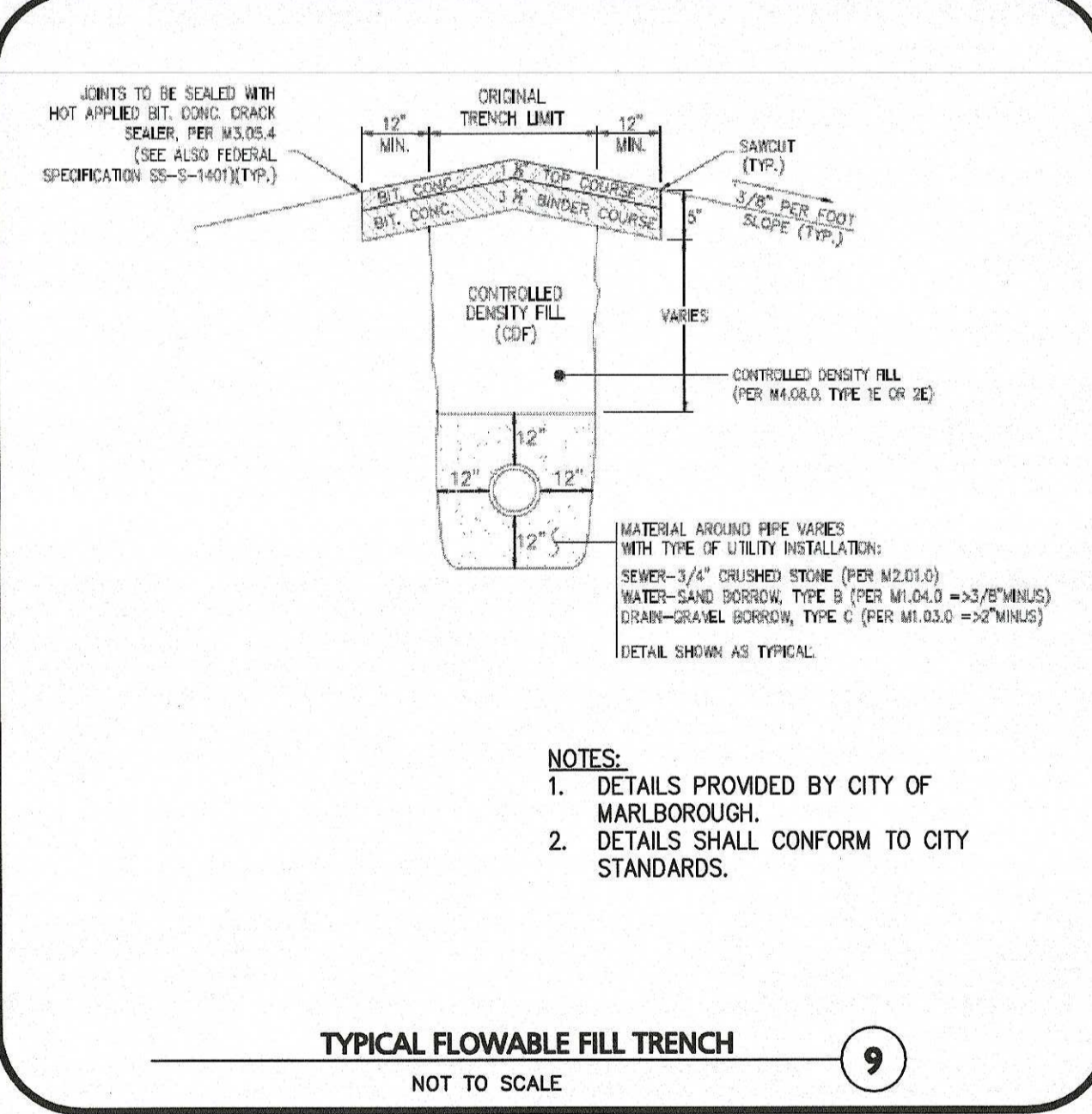
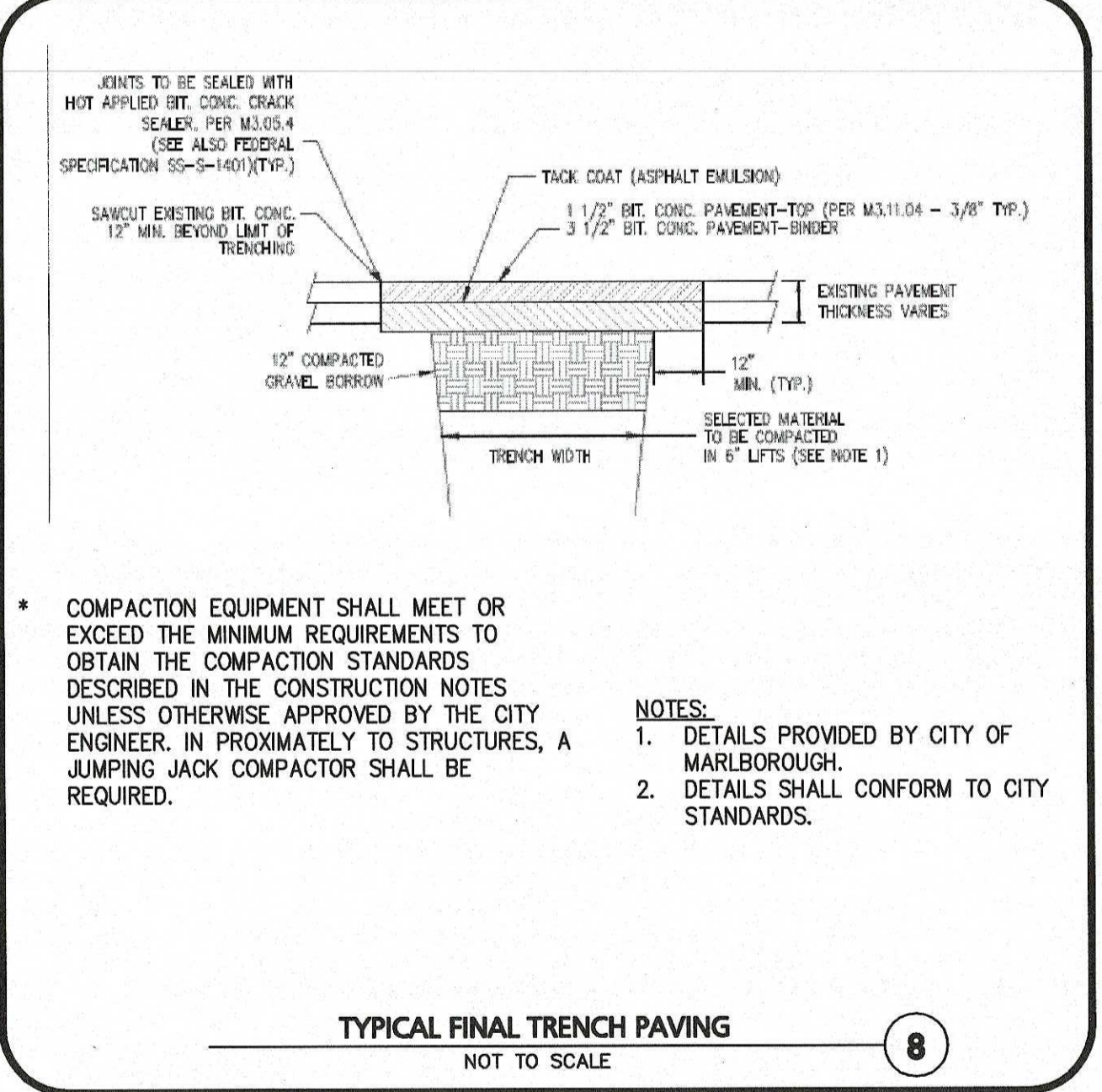
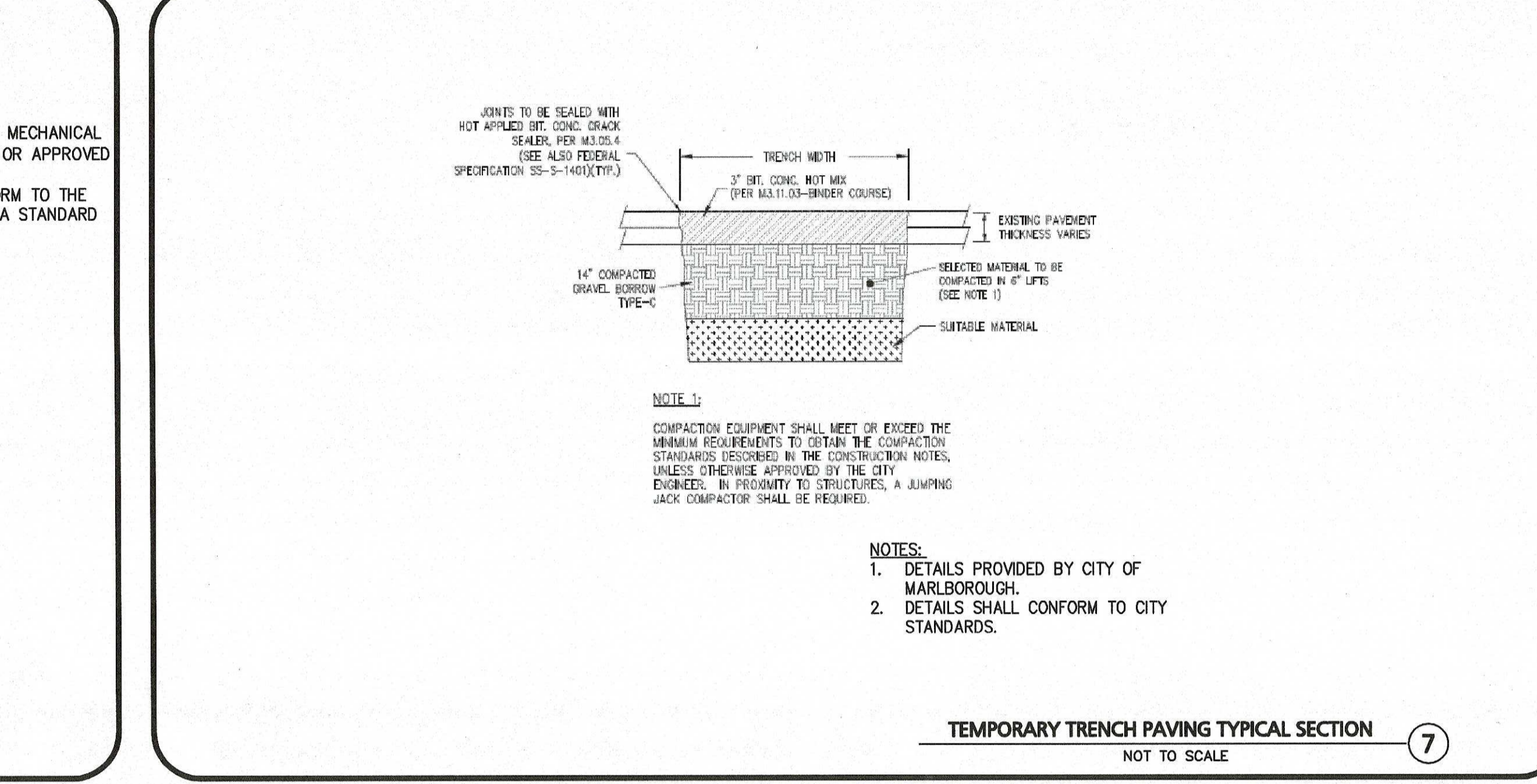
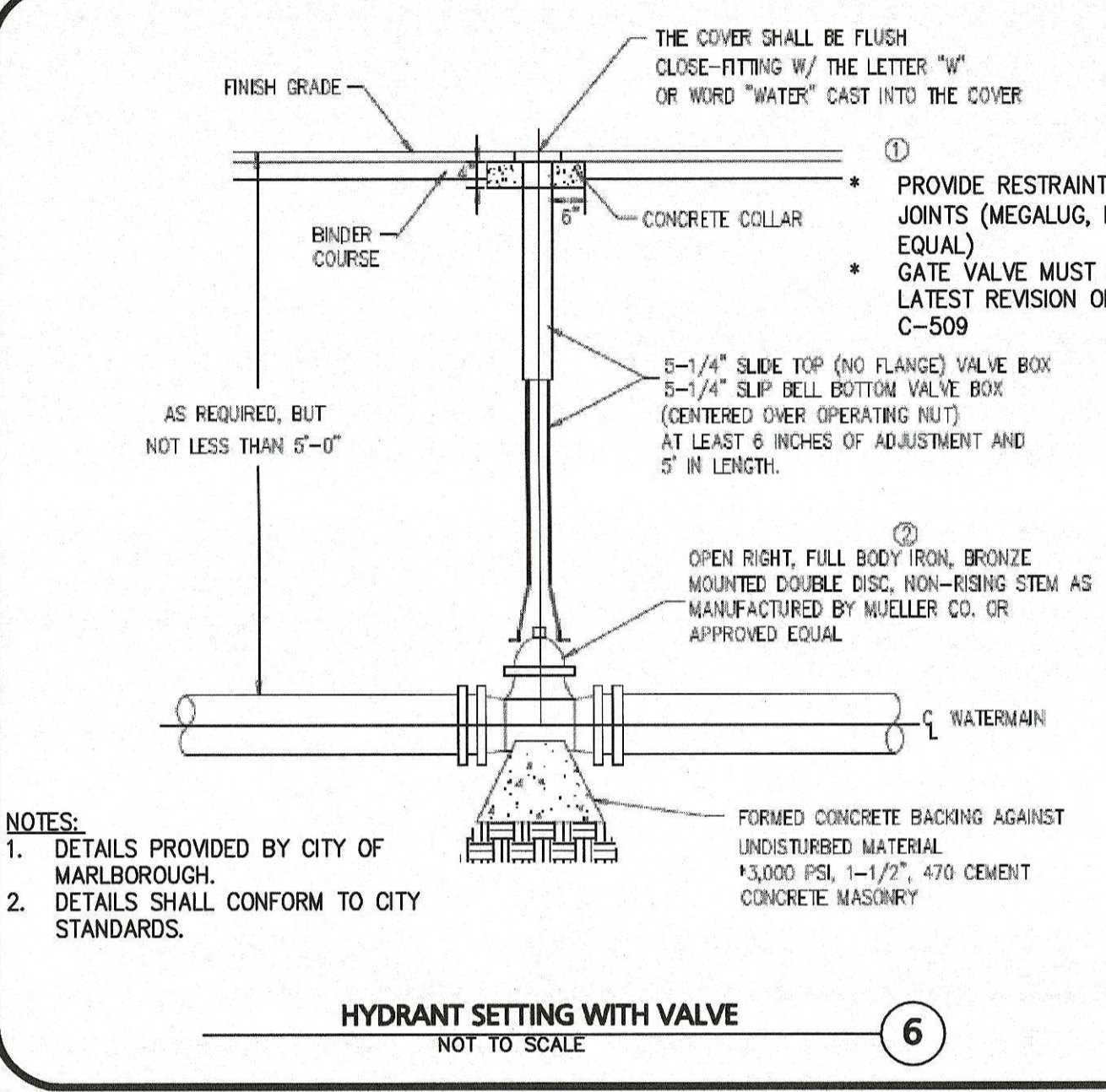
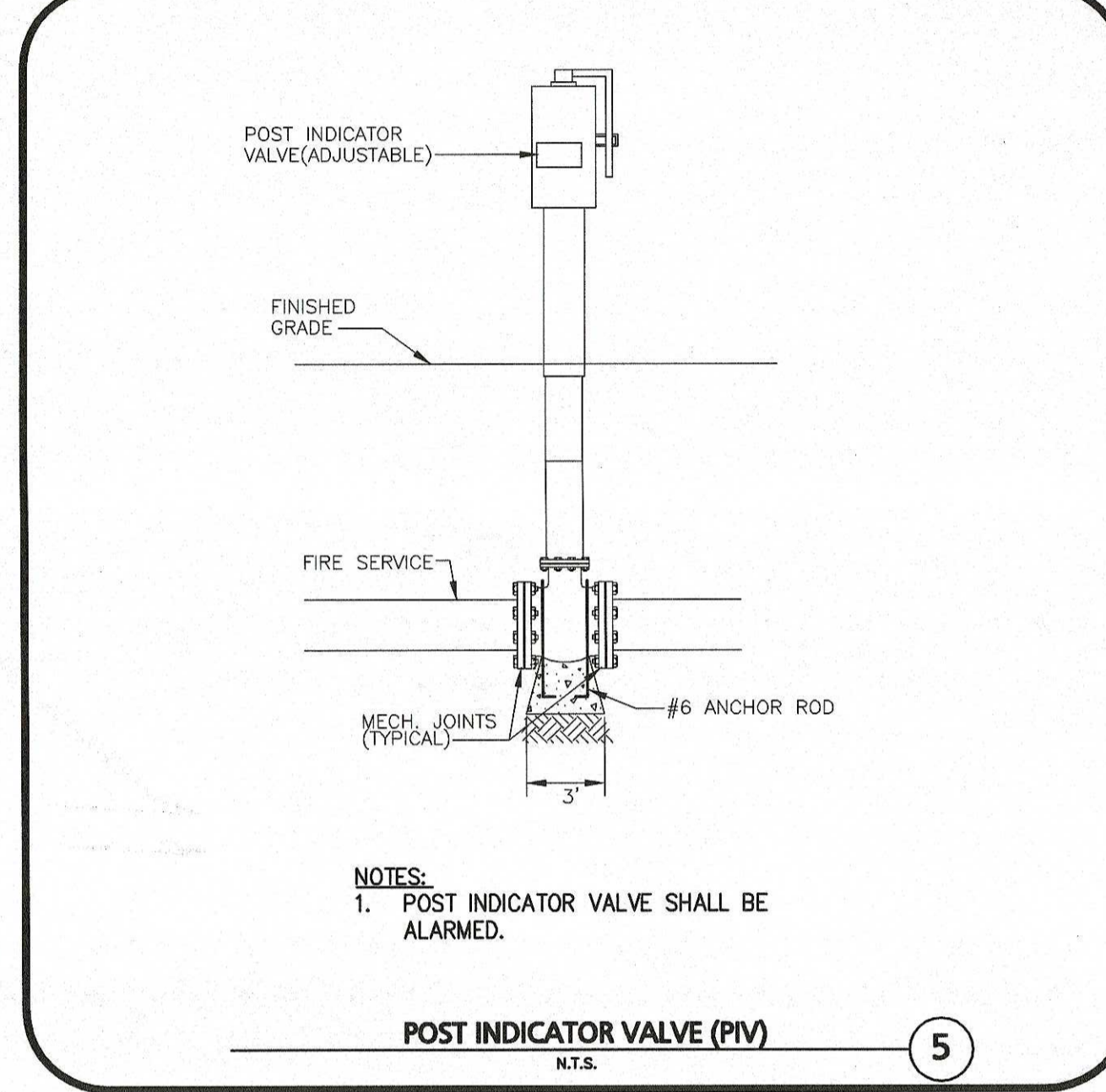
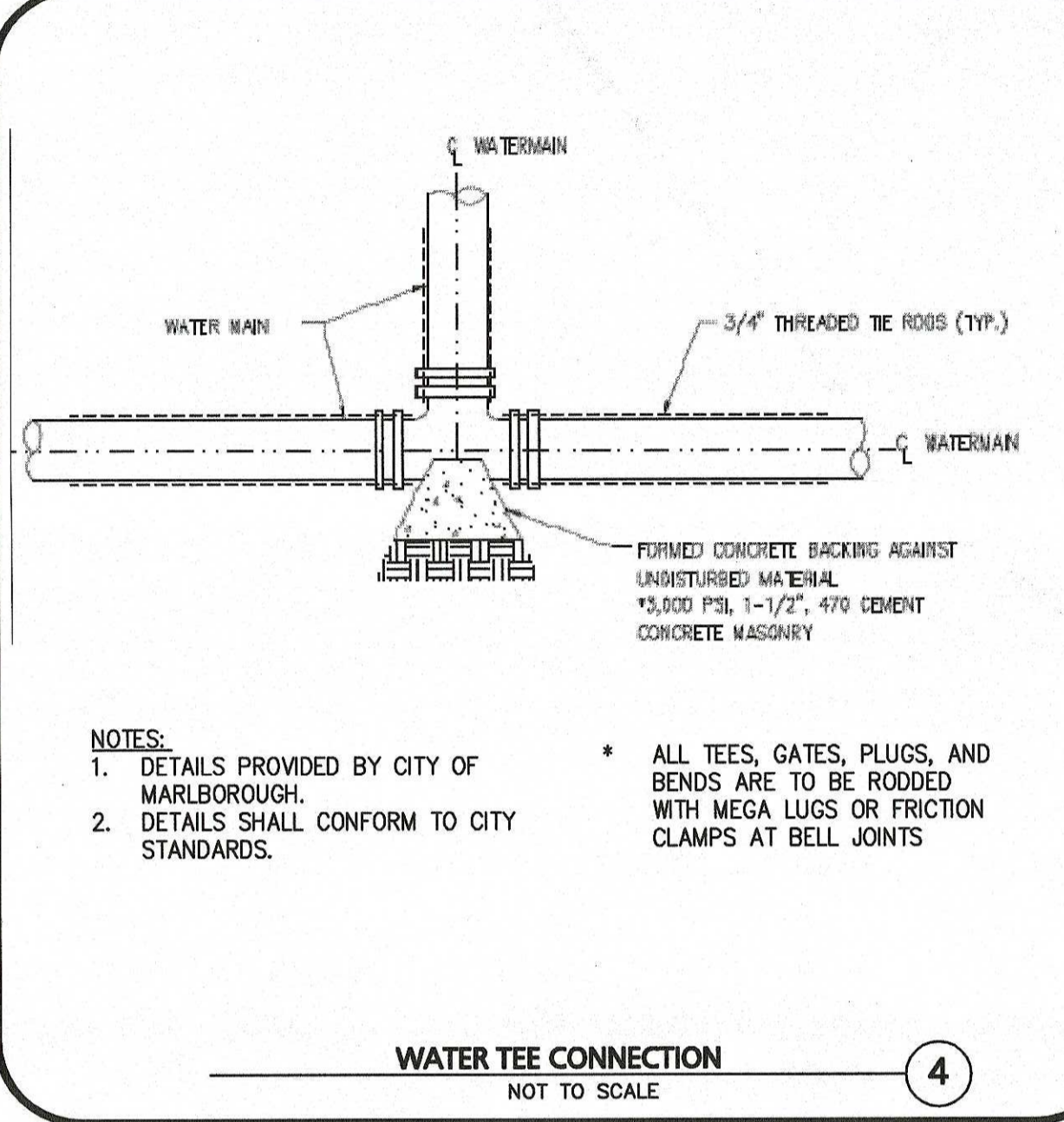
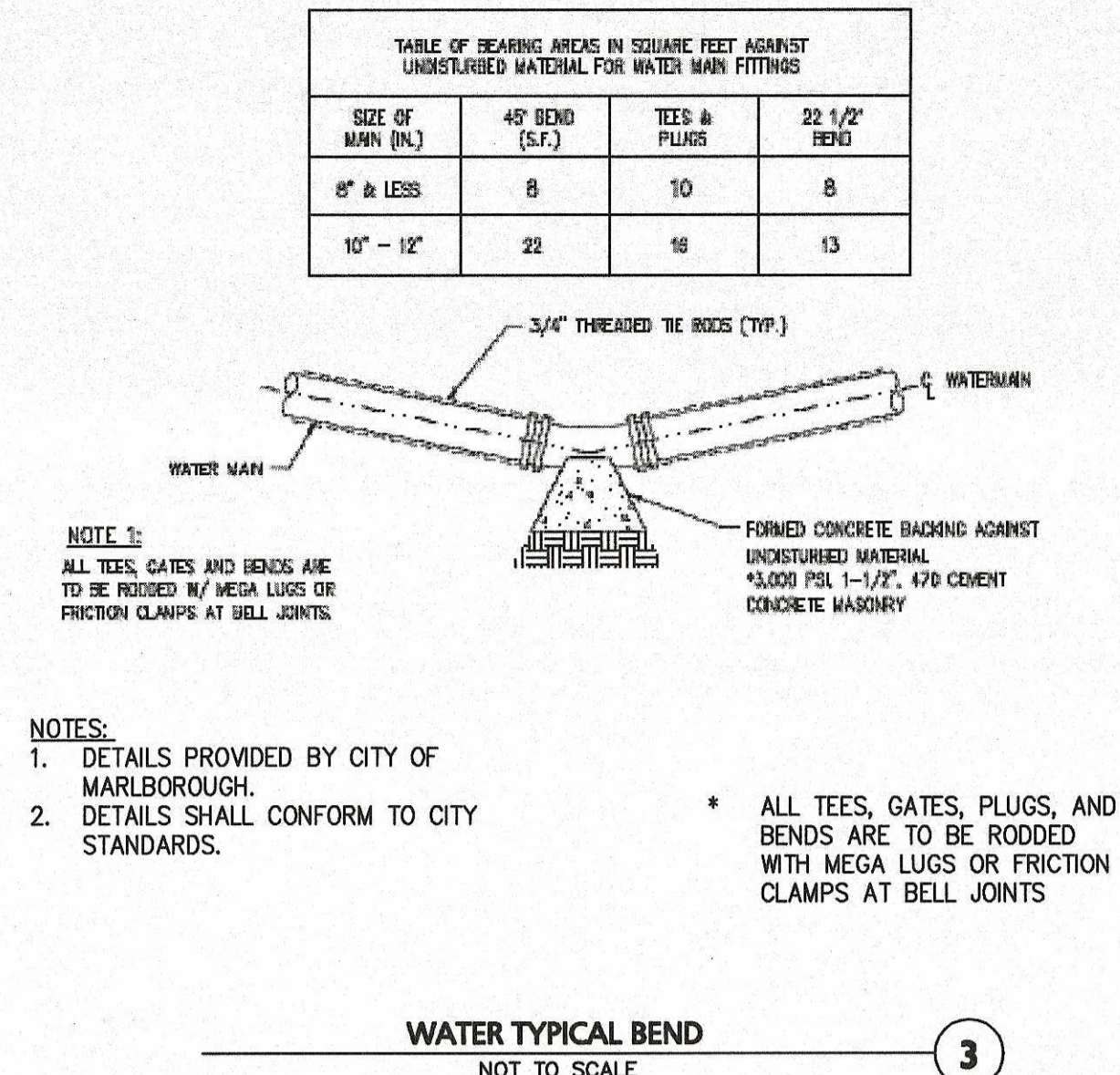
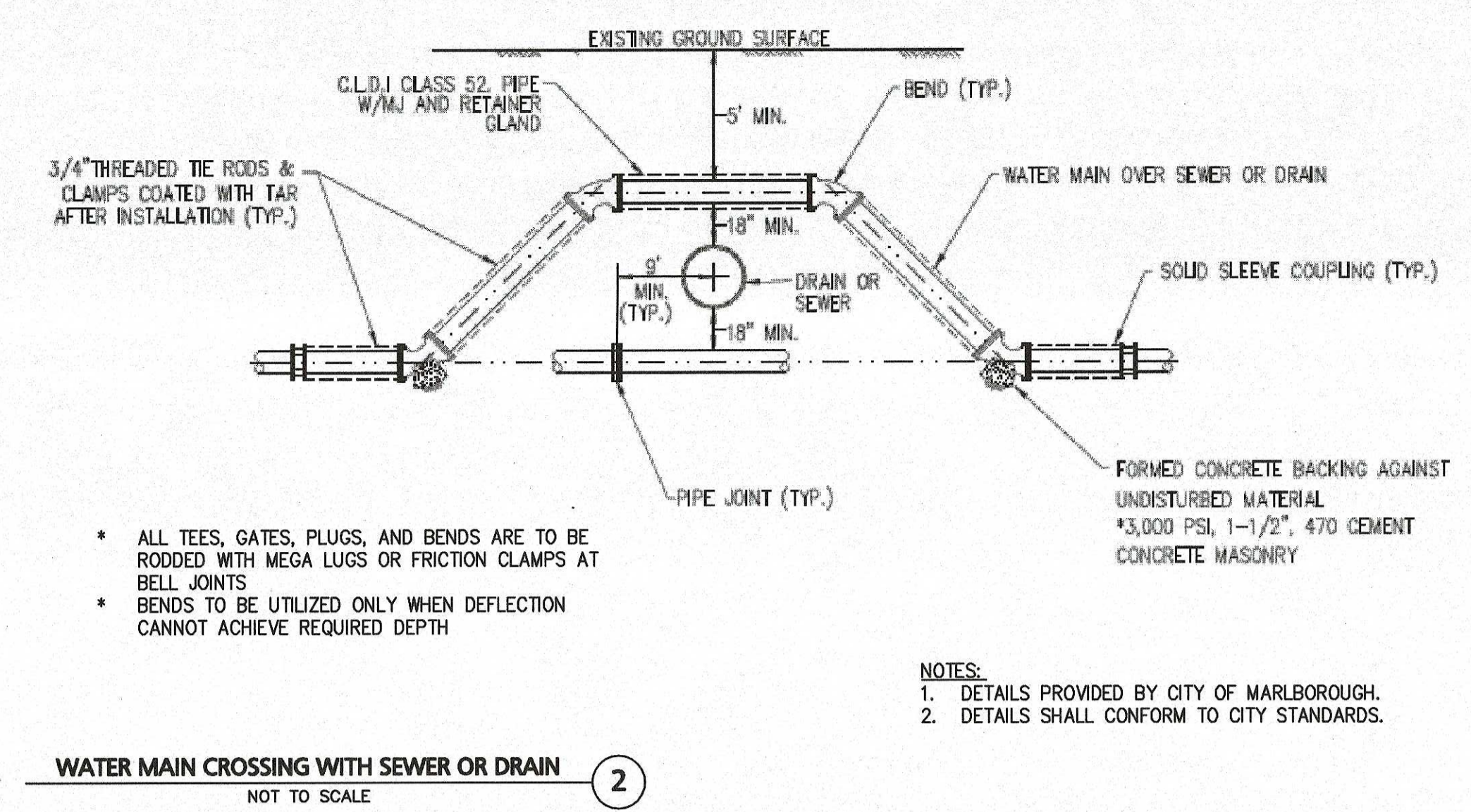
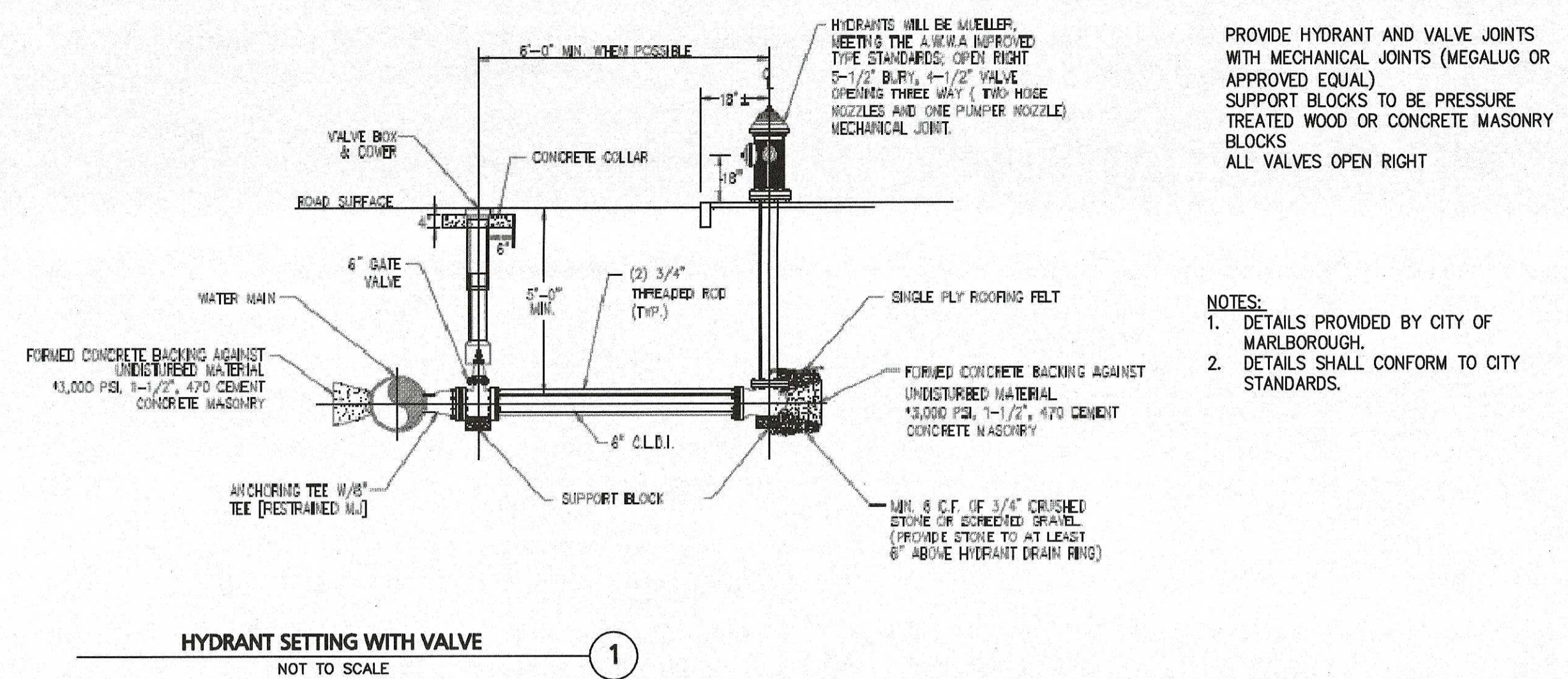


WOBURN, MA • LAKEVILLE, MA • MANCHESTER, NH

THIS DRAWING HAS BEEN PREPARED IN ELECTRONIC FORMAT. CLIENT'S REPRESENTATIVE OR CONSULTANT MAY BE PROVIDED COPIES OF DRAWINGS AND SPECIFICATIONS ON MAGNETIC MEDIA FOR HIS/HER INFORMATION AND USE FOR SPECIFIC APPLICATION TO THIS PROJECT. DUE TO THE POTENTIAL THAT THE MAGNETIC INFORMATION MAY BE MODIFIED UNINTENTIONALLY OR OTHERWISE, ALLEN & MAJOR ASSOCIATES, INC. MAY REMOVE ALL INDICATION OF THE DOCUMENT'S AUTHORSHIP ON THE MAGNETIC MEDIA. PRINTED REPRESENTATIONS OF THE DRAWINGS AND SPECIFICATIONS ISSUED SHALL BE THE ONLY RECORD COPIES OF ALLEN & MAJOR ASSOCIATES, INC.'S WORK PRODUCT.

DRAWING TITLE:	CIVIL DETAILS	SHEET NO.	C-504
----------------	---------------	-----------	-------

A:\PROJECTS\2658-01\CIVIL DRAWINGS\CURRENT\SITE PLANS\C-2658-01-DETAILS.DWG



S.18.20

CARLTON M. QUINN
No. A9923
PROFESSIONAL ENGINEER
STATE OF MASSACHUSETTS

PROFESSIONAL ENGINEER FOR
ALLEN & MAJOR ASSOCIATES, INC.

REV	DATE	DESCRIPTION
5	05-18-20	REVISED PER CITY COMMENTS
4	02-20-20	VARIOUS REVISIONS
3	02-03-20	VARIOUS REVISIONS
2	01-31-20	RESUBMITTED FOR LOCAL APPROVAL
1	12-20-19	ISSUED FOR LOCAL APPROVAL

APPLICANT/OWNER:
WP MARLBOROUGH MA OWNER, LLC
9 WEST BROAD STREET, SUITE 800
STAMFORD, CT 06902

PROJECT:
MULTI-FAMILY DEVELOPMENT
339 BOSTON POST ROAD EAST
MARLBOROUGH, MA

PROJECT NO. 2658-01 DATE: 12-20-2019
SCALE: AS SHOWN DWG. NAME: C-2658-01
DESIGNED BY: SJJ/DMR CHECKED BY: CMQ

PREPARED BY:

ALLEN & MAJOR ASSOCIATES, INC.
civil & structural engineering • land surveying
environmental consulting • landscape architecture
www.allenmajor.com
100 COMMERCE WAY, SUITE 5
WOUBURN MA 01801
TEL: (781) 933-6889
FAX: (781) 933-2896

WOUBURN, MA • LAKEVILLE, MA • MANCHESTER, NH

THIS DRAWING HAS BEEN PREPARED IN ELECTRONIC FORMAT. CLIENT/CUSTOMER REPRESENTATIVE OR CONSULTANT MAY BE PROVIDED COPIES OF DRAWINGS AND SPECIFICATIONS ON MAGNETIC MEDIA FOR HIS/HER INFORMATION AND USE FOR SPECIFIC APPLICATION TO THIS PROJECT. DUE TO THE POTENTIAL THAT THE MAGNETIC INFORMATION MAY BE MODIFIED UNINTENTIONALLY OR OTHERWISE, ALLEN & MAJOR ASSOCIATES, INC. MAY REMOVE ALL INDICATION OF THE DOCUMENT'S AUTHORSHIP ON THE MAGNETIC MEDIA. PRINTED REPRESENTATIONS OF THE DRAWINGS AND SPECIFICATIONS ISSUED SHALL BE THE ONLY RECORD COPIES OF ALLEN & MAJOR ASSOCIATES, INC.'S WORK PRODUCT.

DRAWING TITLE: CIVIL DETAILS SHEET No. C-505

Copyright ©2020 Allen & Major Associates, Inc. All Rights Reserved.

X:\PROJECTS\2658-01\CIVIL DRAWINGS\CURRENT\SITE PLANS\C-2658-01_DETAILS.DWG

DIG SAFE



BEFORE YOU DIG
CALL 811 DIG
1-888-DIG-SAFE
1-888-344-7233

ASSESSORS MAP 72, LOT 35
ASSESSORS MAP 73, LOT 28
AREA = 729,871 ± SF
(16.76 AC.)

LEGEND

DECIDUOUS TREE

EVERGREEN TREE

FLOWERING TREE

SHRUBS

MULCH BED

PERENNIALS/GROUNDCOVER

WILDFLOWER SEED MIX

EROSION CONTROL SEED MIX

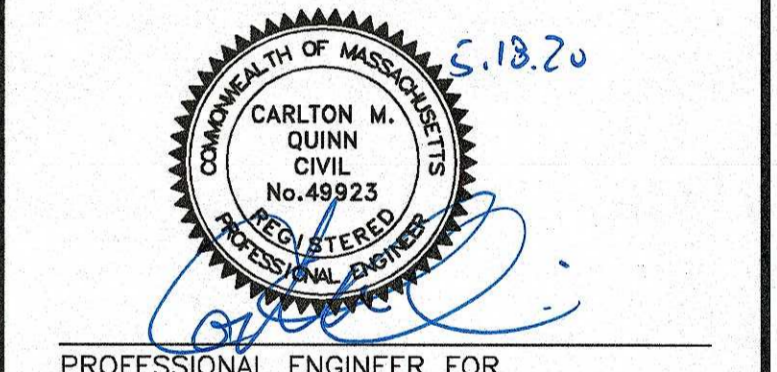
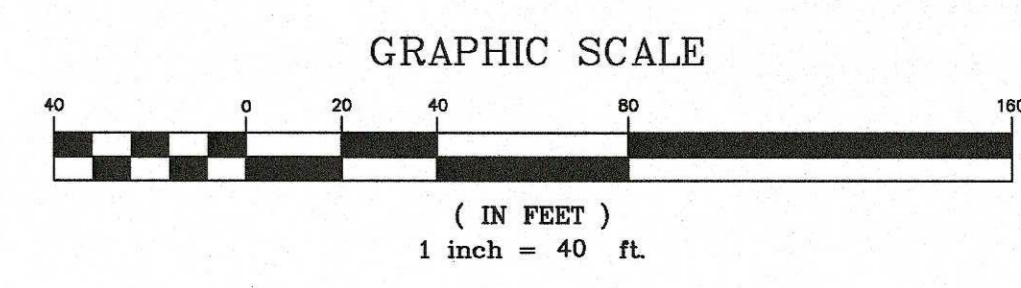
- NOTES:**
1. THE INFORMATION SHOWN ON THIS PLAN IS THE SOLE PROPERTY OF ALLEN & MAJOR ASSOCIATES, INC. ITS INTENDED USE IS TO PROVIDE INFORMATION, ANY ALTERATION, MISUSE, OR RECALCULATION OF INFORMATION OR DATA WITHOUT THE EXPRESSED, WRITTEN CONSENT OF ALLEN & MAJOR ASSOCIATES, INC. IS STRICTLY PROHIBITED.
 2. THIS PLAN WAS PREPARED USING AVAILABLE SITE INFORMATION FROM SEVERAL SOURCES, SOME OF WHICH IS UNCONFIRMED. THE EXISTING CONDITIONS SURVEY BASE WAS TAKEN FROM A PLAN ENTITLED "EXISTING CONDITIONS, V-101" PREPARED BY ALLEN & MAJOR ASSOCIATES, INC. DATED JULY, 2019, ORIGINAL SCALE 1"=80'.
 3. ALL LANDSCAPED AREAS WITH SHRUBS, TREES, AND PERENNIALS TO HAVE 18" MINIMUM DEPTH OF TOPSOIL. EIGHTEEN INCHES OF TOPSOIL AROUND TREES AND SHRUBS DOES NOT INCLUDE AMENDED PLANTING SOIL WITHIN TREE / SHRUB PIT FOR FULL DEPTH OF ROOTBALLS. SEE PLANTING DETAILS FOR PLANTING DEPTH AT SHRUBS AND TREES. ALL AREAS OF LOAM AND SEED OR LOAM & SOD TO HAVE 6" MINIMUM DEPTH OF TOPSOIL. TOPSOIL TO BE TESTED BY CONTRACTOR, AND APPROVED BY A&M PRIOR TO PURCHASE AND OR PLACEMENT. GENERAL CONTRACTOR, DEMOLITION CONTRACTOR, AND LANDSCAPE CONTRACTOR TO COORDINATE PROPER DEPTH OF EXISTING MATERIAL REMOVAL ACROSS SITE SO THAT 18" MINIMUM AND 6" MINIMUM DEPTHS OF PROPOSED TOPSOIL NOTED ABOVE ARE MET AT NO ADDITIONAL COST TO OWNER. SEE TOPSOIL DETAIL.
 4. SEE SHEET L-102 FOR ADDITIONAL PARKING LOT LANDSCAPE PLAN.
 5. SEE SHEET L-102 & L-501 FOR ADDITIONAL LANDSCAPE INFORMATION.

PLANTING PALETTE - TREES, SHRUBS, & PERENNIALS

KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	MIN. SIZE	SPACING	COMMENTS
DECIDUOUS SHADE TREES						
AA	21	AMELANCHIER 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE SERVICEBERRY	2.5-3" CAL.	AS SHOWN	B&B
AR	22	ACER RUBRUM 'KARPIK'	KARPIK RED MAPLE	2.5-3" CAL.	AS SHOWN	B&B
BP	14	BETULA PAPERIFERA	PAPER BIRCH	12-14' HT.	AS SHOWN	B&B
CC	5	CERCIS CANADENSIS	EASTERN REDBUD	2.5-3" CAL.	AS SHOWN	B&B
PR	18	PRUNUS SARGENTII 'PINK FLAIR'	PINK FLAIR SARGEANT CHERRY	2.5-3" CAL.	AS SHOWN	B&B
QP	8	QUERCUS PALUSTRIS	PIN OAK	3-3.5" CAL.	AS SHOWN	B&B
EVERGREEN TREES						
JV	10	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	6'-7' HT.	AS SHOWN	B&B
PA	8	PICEA ABIES	NORWAY SPRUCE	6'-7' HT.	AS SHOWN	B&B
PP	6	PICEA PUNGENS 'FAT ALBERT'	FAT ALBERT BLUE SPRUCE	6'-7' HT.	AS SHOWN	B&B
TO	14	THUJA OCCIDENTALIS 'WINTERGREEN'	WINTERGREEN ARBORVITAE	6'-7' HT.	AS SHOWN	B&B
SHRUBS/ GRASSES						
KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	MIN. SIZE	SPACING	COMMENTS
CS	83	CLETHRA ALNIFOLIA 'SIXTEEN CANDLES'	SIXTEEN CANDLES SUMMERSWEET	#3	AS SHOWN	POT
HY	186	HYDRANGEA ARBORESCENS 'ANNABELLE'	ANNABELLE HYDRANGEA	#3	AS SHOWN	POT
HYT	17	HYDRANGEA PANICULATA 'LIMELIGHT'	TREEFORM LIMELIGHT HYDRANGEA	3'-4'	AS SHOWN	B&B
IG	151	ILEX GLABRA 'SHAMROCK'	INKBERRY	2'-2.5' HT.	AS SHOWN	POT
PV	54	PANICUM V. 'SHENANDOAH'	SHENANDOAH SWITCH GRASS	#3	AS SHOWN	POT
PJM	168	RHODODENDRON 'PJM COMPACT CLONE'	COMPACT PJM RHODODENDRON	#3	AS SHOWN	POT
RN	83	RHODODENDRON 'BOULE DE NEIGE'	BOULE DE NEIGE RHODODENDRON	18"-24" HT.	AS SHOWN	POT
RK	86	ROSA KNOCKOUT PINK	PINK KNOCKOUT ROSE	2'-2.5' HT.	AS SHOWN	POT
SD	9	SALIX DISCOLOR	PUSSY WILLOW	3-4' HT.	AS SHOWN	POT
VD	21	VIBURNUM DENTATUM 'AUTUMN JAZZ'	AUTUMN JAZZ VIBURNUM	#10	AS SHOWN	POT
PERENNIALS						
KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	MIN. SIZE	SPACING	COMMENTS
BA	70	BAPTISIA 'PURPLE SMOKE'	PURPLE SMOKE WILD INDIGO	#1	24" O.C.	STAGGERED
EP	145	ECHINACEA PURPUREA	PURPLE CONEFLOWER	#1	24" O.C.	STAGGERED
GS	52	GERANIUM SANGUINEUM 'ALBUM'	WHITE PERENNIAL GERANIUM	#1	24" O.C.	STAGGERED
HO	41	HOSTA 'BLUE ANGEL'	BLUE ANGEL HOSTA	#1	24" O.C.	STAGGERED
HR	202	HEMEROCALLIS 'ORANGE SMOOTHIE'	ORANGE SMOOTHIE DAYLILY	#1	24" O.C.	STAGGERED
HI	22	HIBISCUS MOSCHEUTOS 'LUNA PINK SWIRL'	PINK SWIRL HARDY HIBISCUS	#1	24" O.C.	STAGGERED
IS	30	IRIS SIBERICA 'SNOW QUEEN'	SNOW QUEEN SIBERIAN IRIS	#1	24" O.C.	STAGGERED
RF	56	RUBICEKIA FULGIDA 'GOLDSTURM'	BLACK EYED SUSAN	#1	24" O.C.	STAGGERED

LANDSCAPE REGULATIONS

S 650-47 LANDSCAPING AND SCREENING	REQUIRED	PROVIDE	NOTES
D. (4) PLANTING TYPE AND SIZE DECIDUOUS SHADE TREES MIN. 2" CAL.	AS NOTED	MINIMUM REQUIRED SIZES OR GREATER	
H. PARKING LOT PLANTING AREA (1) PERIMETER PARKING LOT. ON AT LEAST THREE SIDES THERE SHALL BE A LANDSCAPE STRIP WITH REQUIRED SIDE LINE PLANTING AREAS UNDER SECTION F	AS NOTED WITH 7' SIDELINE PLANTING AREA STRIPS	AS NOTED WITH 7' SIDELINE PLANTING AREA STRIPS	
L. MAINTENANCE (3) PLANTINGS WILL BE SELECTED TO NOT USE HIGH WATER LEVELS FOR MAINTENANCE. STREET FRONTAGE AREAS SHALL BE PROVIDED WITH THE INSTALLATION OF AN IRRIGATION SYSTEM	IRRIGATION SYSTEM	IRRIGATION SYSTEM	



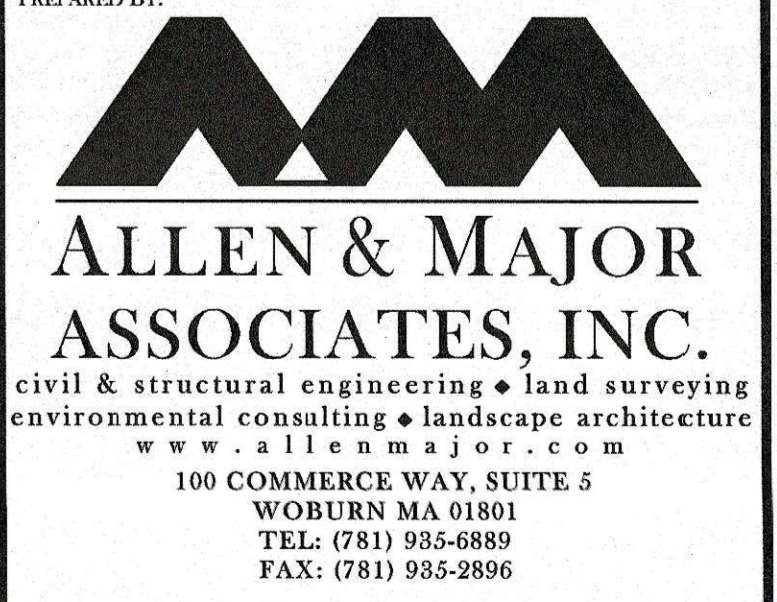
PROFESSIONAL ENGINEER FOR ALLEN & MAJOR ASSOCIATES, INC.

REV	DATE	DESCRIPTION
5	05-19-20	REVISED PER CITY COMMENTS
4	02-20-20	VARIOUS REVISIONS
3	02-03-20	VARIOUS REVISIONS
2	01-31-20	RESUBMITTED FOR LOCAL APPROVAL
1	12-20-19	ISSUED FOR LOCAL APPROVAL

APPLICANT/OWNER:
 WP MARLBOROUGH MA OWNER, LLC
 9 WEST BROAD STREET, SUITE 800
 STAMFORD, CT 06902

MULTI-FAMILY DEVELOPMENT
 339 BOSTON POST ROAD EAST
 MARLBOROUGH, MA

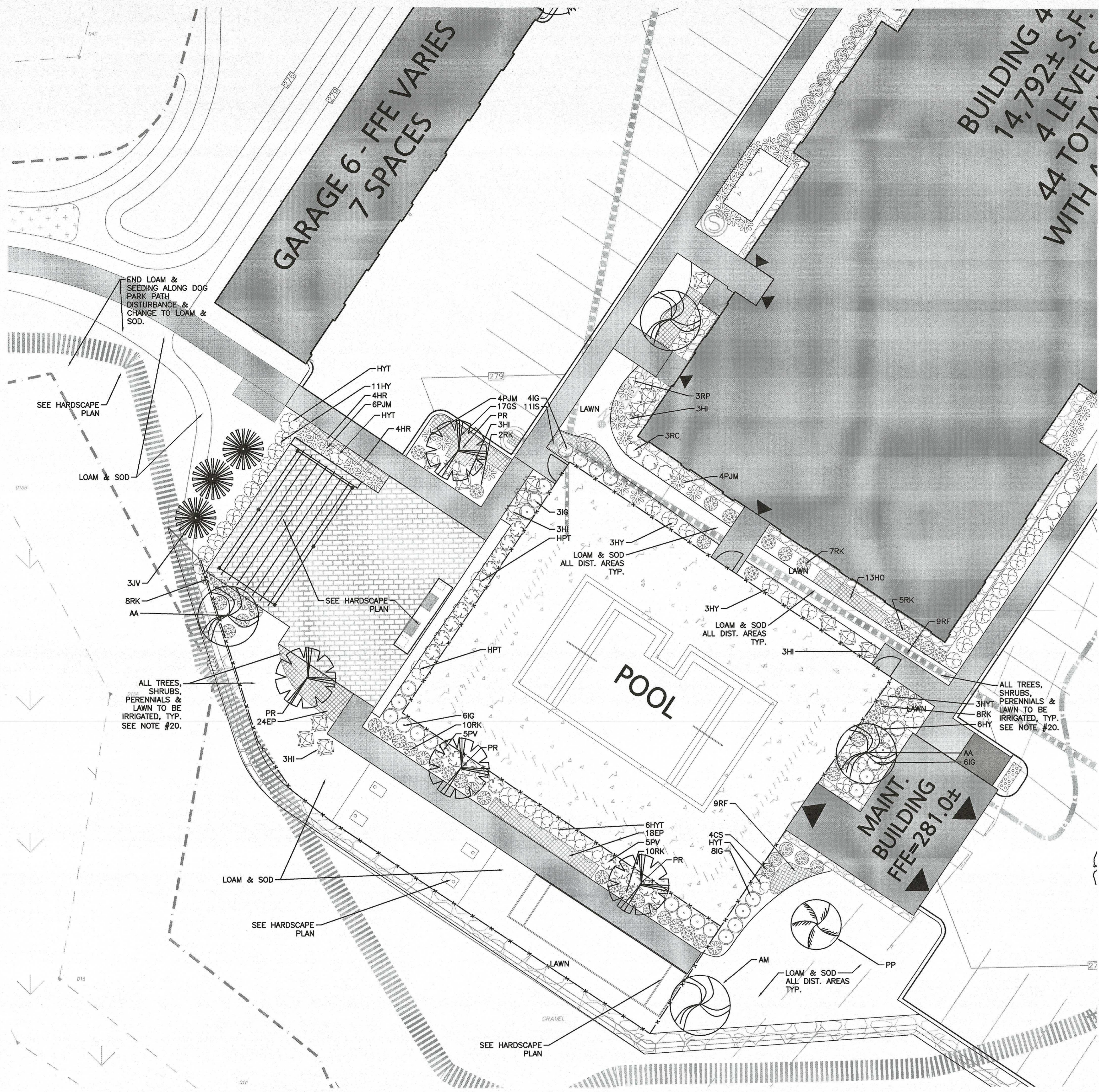
PROJECT NO. 2658-01 DATE: 12-20-2019
 SCALE: 1"=40' DWG. NAME: C-2658-01
 DESIGNED BY: SJL/DMR CHECKED BY: CMQ



THIS DRAWING HAS BEEN PREPARED IN ELECTRONIC FORMAT. CLIENT/CUSTOMER REPRESENTATIVE OR CONSULTANT MAY BE PROVIDED COPIES OF DRAWINGS AND SPECIFICATIONS ON MAGNETIC MEDIA FOR HIGHER INFORMATION AND USE FOR SPECIFIC APPLICATION TO THIS PROJECT. DUE TO THE POTENTIAL THAT THE MAGNETIC INFORMATION MAY BE MODIFIED UNINTENTIONALLY OR OTHERWISE, ALLEN & MAJOR ASSOCIATES, INC. MAY REMOVE ALL INDICATION OF THE DOCUMENT'S AUTHORITY ON THE MAGNETIC MEDIA. PRINTED REPRESENTATIONS OF THE DRAWINGS AND SPECIFICATIONS ISSUED SHALL BE THE ONLY RECORD COPIES OF ALLEN & MAJOR ASSOCIATES, INC.'S WORK PRODUCT.

DRAWING TITLE: **LANDSCAPING PLAN** SHEET No. **L-101**

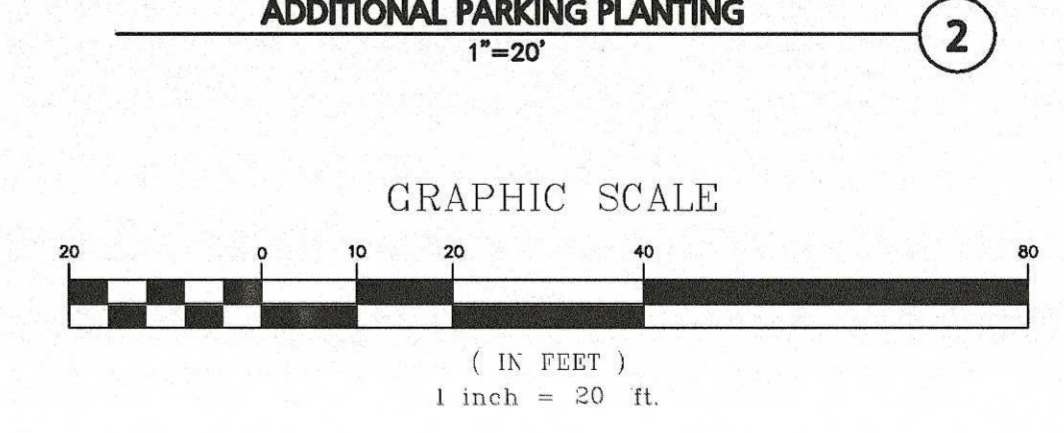
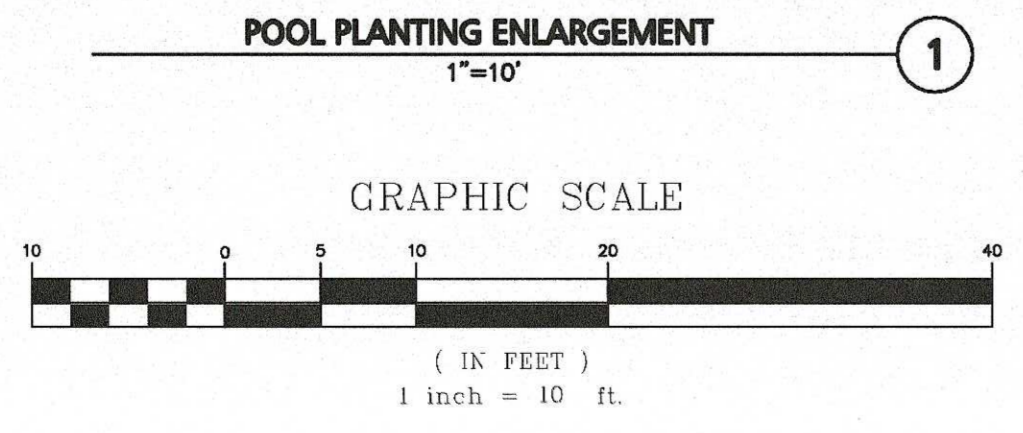
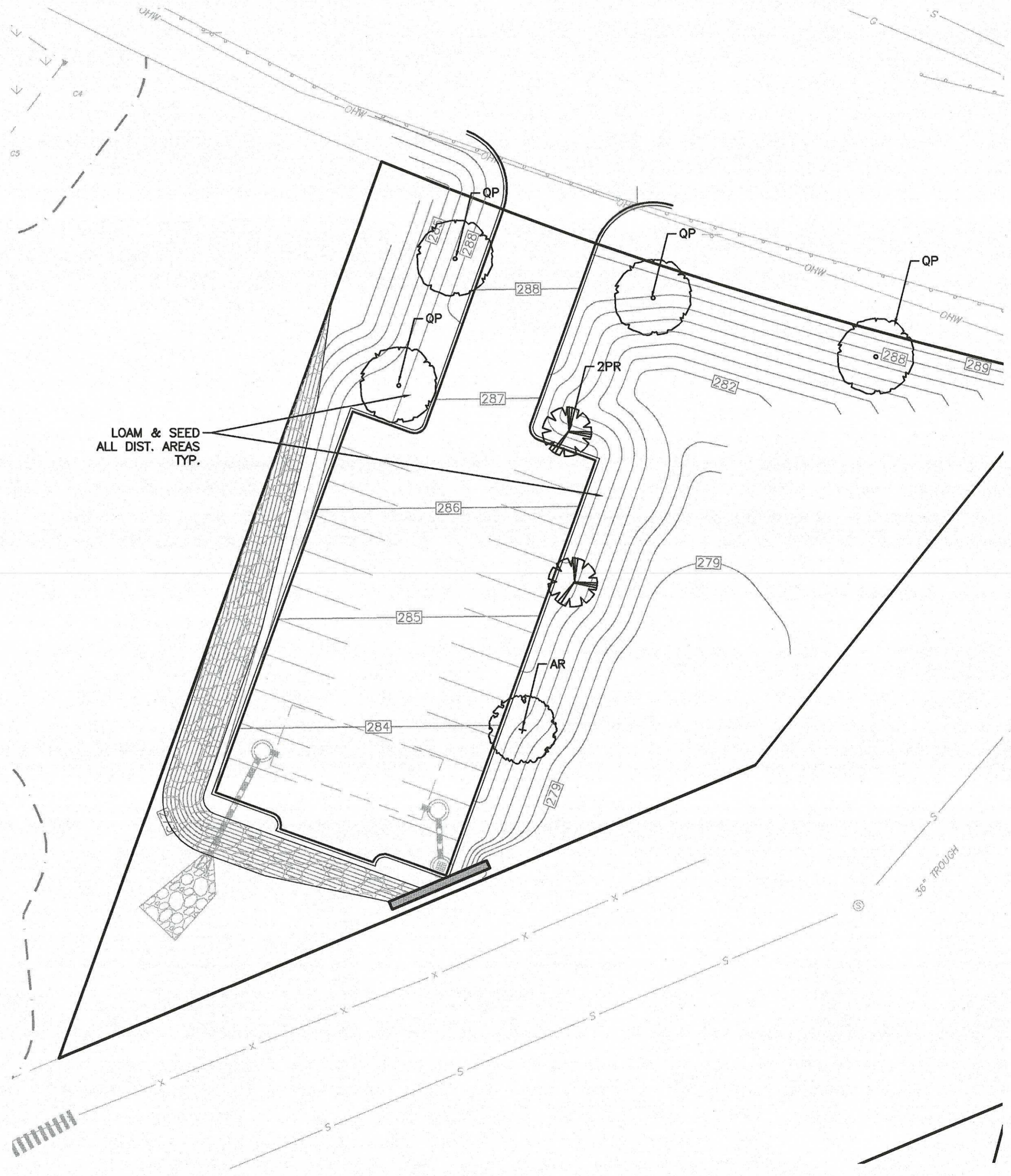
A:\PROJECTS\2658-01\CIVIL\DRAWINGS\CURRENT\SITE PLANS\C-2658-01_LANDSCAPING.DWG



- NOTES:**
1. THE INFORMATION SHOWN ON THIS PLAN IS THE SOLE PROPERTY OF ALLEN & MAJOR ASSOCIATES, INC. ITS INTENDED USE IS TO PROVIDE INFORMATION. ANY ALTERATION, MISUSE, OR RECALCULATION OF INFORMATION OR DATA WITHOUT THE EXPRESSED, WRITTEN CONSENT OF ALLEN & MAJOR ASSOCIATES, INC. IS STRICTLY PROHIBITED.
 2. THIS PLAN WAS PREPARED USING AVAILABLE SITE INFORMATION FROM SEVERAL SOURCES, SOME OF WHICH IS UNCONFIRMED. THE EXISTING CONDITIONS SURVEY BASE WAS TAKEN FROM A PLAN ENTITLED "EXISTING CONDITIONS, V-101" PREPARED BY ALLEN & MAJOR ASSOCIATES, INC. DATED JULY, 2019, ORIGINAL SCALE 1"=80'.
 3. ALL LANDSCAPED AREAS WITH SHRUBS, TREES, AND PERENNIALS TO HAVE 18" MINIMUM DEPTH OF TOPSOIL. EIGHTEEN INCHES OF TOPSOIL AROUND TREES AND SHRUBS DOES NOT INCLUDE AMENDED PLANTING SOIL WITHIN TREE / SHRUB PIT FOR FULL DEPTH OF ROOTBALLS. SEE PLANTING DETAILS FOR PLANTING DEPTH AT SHRUBS AND TREES. ALL AREAS OF LOAM AND SEED OR LOAM & SOD TO HAVE 6" MINIMUM DEPTH OF TOPSOIL. TOPSOIL TO BE TESTED BY CONTRACTOR, AND APPROVED BY A&M PRIOR TO PURCHASE AND OR PLACEMENT. GENERAL CONTRACTOR, DEMOLITION CONTRACTOR, AND LANDSCAPE CONTRACTOR TO COORDINATE PROPER DEPTH OF EXISTING MATERIAL REMOVAL ACROSS SITE SO THAT 18" MINIMUM AND 6" MINIMUM DEPTHS OF PROPOSED TOPSOIL NOTED ABOVE ARE MET AT NO ADDITIONAL COST TO OWNER. SEE TOPSOIL DETAIL.
 4. SEE SHEET L-101 & L-501 FOR ADDITIONAL LANDSCAPE INFORMATION.

LEGEND

- DECIDUOUS TREE
- EVERGREEN TREE
- FLOWERING TREE
- SHRUBS
- MULCH BED
- PERENNIALS/GROUNDCOVER
- WILDFLOWER SEED MIX
- EROSION CONTROL SEED MIX



DIG SAFE

BEFORE YOU DIG
CALL 811 OR
1-888-DIG-SAFE
1-888-344-7233

5.18.20

 PROFESSIONAL ENGINEER FOR
 ALLEN & MAJOR ASSOCIATES, INC.

REV	DATE	DESCRIPTION
5	05-18-20	REVISED PER CITY COMMENTS
4	02-20-20	VARIOUS REVISIONS
3	02-03-20	VARIOUS REVISIONS
2	01-31-20	RESUBMITTED FOR LOCAL APPROVAL
1	12-20-19	ISSUED FOR LOCAL APPROVAL

APPLICANT/OWNER:
 WP MARLBOROUGH MA OWNER, LLC
 9 WEST BROAD STREET, SUITE 800
 STAMFORD, CT 06902

PROJECT:
MULTI-FAMILY DEVELOPMENT
 339 BOSTON POST ROAD EAST
 MARLBOROUGH, MA

PROJECT NO. 2658-01 DATE: 12-20-2019
 SCALE: 1"=10' DWG. NAME: C-2658-01
 DESIGNED BY: SJL/DMR CHECKED BY: CMQ

ALLEN & MAJOR ASSOCIATES, INC.
 civil & structural engineering • land surveying
 environmental consulting • landscape architecture
 www.allenmajor.com
 100 COMMERCE WAY, SUITE 5
 WOBURN MA 01801
 TEL: (781) 935-6889
 FAX: (781) 935-2896

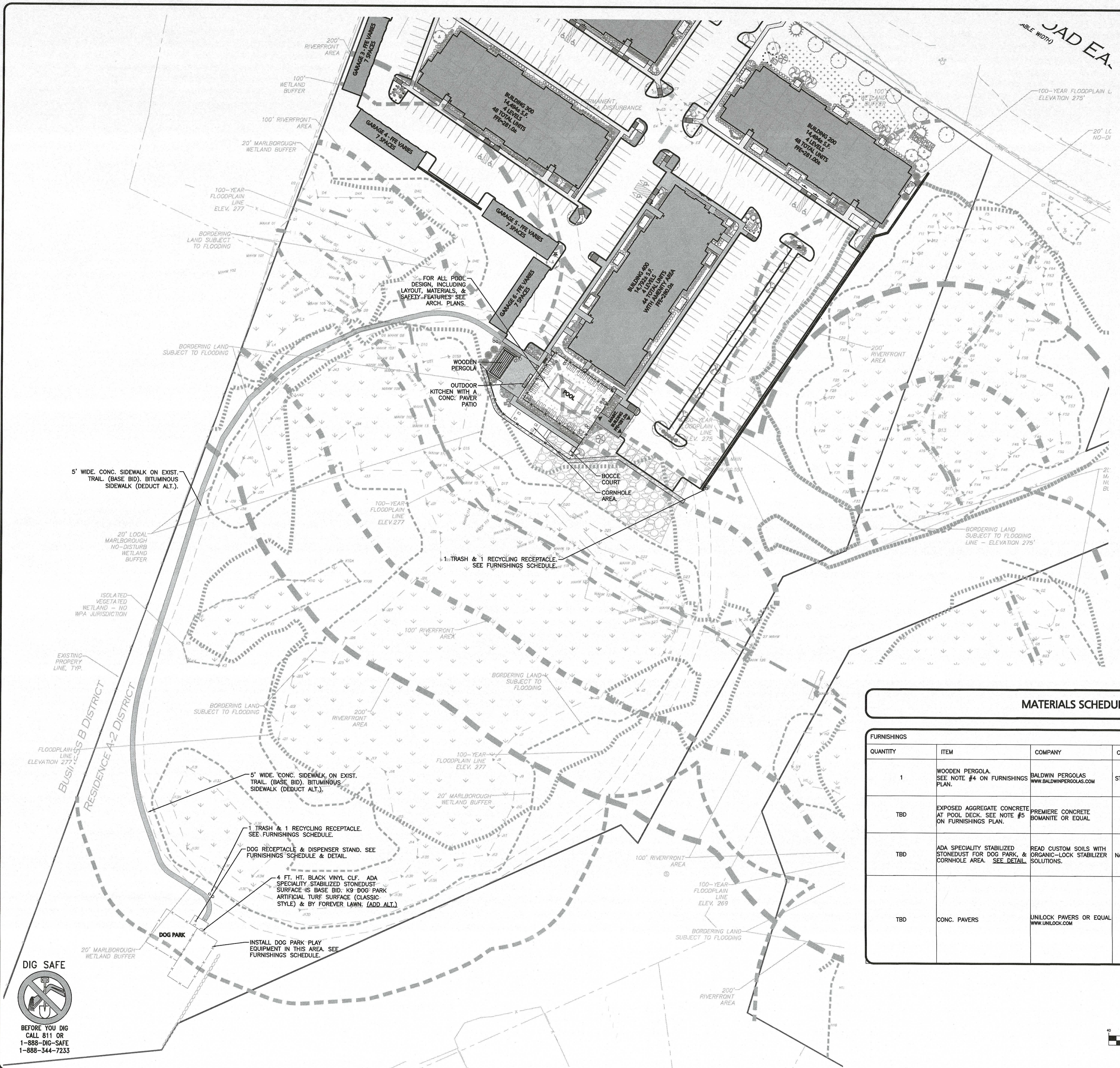
WOBURN, MA • LAKEVILLE, MA • MANCHESTER, NH

THIS DRAWING HAS BEEN PREPARED IN ELECTRONIC FORMAT. CLIENTS REPRESENTATIVE OR CONSULTANT MAY BE PROVIDED COPIES OF DRAWINGS AND SPECIFICATIONS ON MAGNETIC MEDIA FOR HIS/HER INFORMATION AND USE FOR SPECIFIC APPLICATION TO THIS PROJECT. DUE TO THE POTENTIAL THAT THE MAGNETIC INFORMATION MAY BE COPIED UNINTENTIONALLY OR OTHERWISE, ALLEN & MAJOR ASSOCIATES, INC. MAY REMOVE ALL INDICATION OF THE DOCUMENTS AUTHORITY ON THE MAGNETIC MEDIA. PRINTED REPRESENTATIONS OF THE DRAWINGS AND SPECIFICATIONS ISSUED SHALL BE THE ONLY RECORD COPIES OF ALLEN & MAJOR ASSOCIATES, INC.'S WORK PRODUCT.

DRAWING TITLE: LANDSCAPING PLAN SHEET No. L-102

K:\PROJECTS\2658-01\CIVIL DRAWINGS\CURRENT SITE PLANS\C-2658-01_LANDSCAPING.DWG

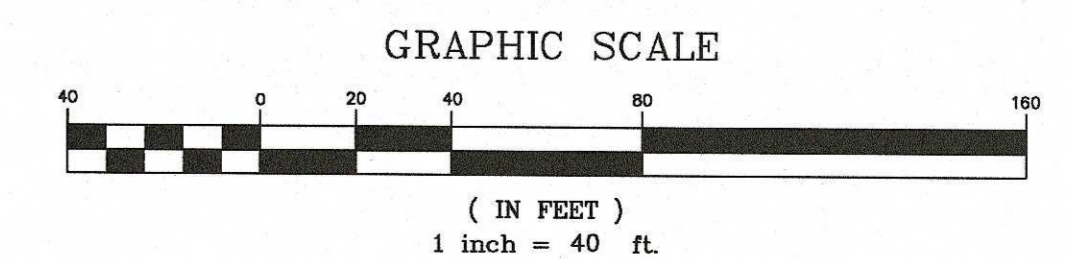
N:\PROJECTS\2658-01\CIVIL DRAWINGS\CURRENT SITE PLANS\C-2658-01_HARDSCAPE_MATERIALS_PLANNING



- NOTES:**
1. THE INFORMATION SHOWN ON THIS PLAN IS THE SOLE PROPERTY OF ALLEN & MAJOR ASSOCIATES, INC. ITS INTENDED USE IS TO PROVIDE INFORMATION. ANY ALTERATION, MISUSE, OR RECALCULATION OF INFORMATION OR DATA WITHOUT THE EXPRESSED, WRITTEN CONSENT OF ALLEN & MAJOR ASSOCIATES, INC. IS STRICTLY PROHIBITED.
 2. THIS PLAN WAS PREPARED USING AVAILABLE SITE INFORMATION FROM SEVERAL SOURCES, SOME OF WHICH IS UNCONFIRMED. THE EXISTING CONDITIONS SURVEY BASE WAS TAKEN FROM A PLAN ENTITLED "EXISTING CONDITIONS, V-101" PREPARED BY ALLEN & MAJOR ASSOCIATES, INC. DATED JULY, 2019, ORIGINAL SCALE 1"=80'.
 3. ALL LANDSCAPED AREAS WITH SHRUBS, TREES, AND PERENNIALS TO HAVE 18" MINIMUM DEPTH OF TOPSOIL. EIGHTEEN INCHES OF TOPSOIL AROUND TREES AND SHRUBS DOES NOT INCLUDE AMENDED PLANTING SOIL WITHIN TREE / SHRUB PIT FOR FULL DEPTH OF ROOTBALLS. SEE PLANTING DETAILS FOR PLANTING DEPTH AT SHRUBS AND TREES. ALL AREAS OF LOAM AND SEED OR LOAM & SOD TO HAVE 6" MINIMUM DEPTH OF TOPSOIL. TOPSOIL TO BE TESTED BY CONTRACTOR, AND APPROVED BY ASM PRIOR TO PURCHASE AND OR PLACEMENT. GENERAL CONTRACTOR, DEMOLITION CONTRACTOR, AND LANDSCAPE CONTRACTOR TO COORDINATE PROPER DEPTH OF EXISTING MATERIAL REMOVAL ACROSS SITE SO THAT 18" MINIMUM AND 6" MINIMUM DEPTHS OF PROPOSED TOPSOIL NOTED ABOVE ARE MET AT NO ADDITIONAL COST TO OWNER. SEE TOPSOIL DETAIL.
 4. SEE SHEET L-104, L-502, L-503 FOR ADDITIONAL HARDSCAPE & FURNISHINGS INFORMATION.

MATERIALS SCHEDULE

QUANTITY	ITEM	COMPANY	COLOR	SIZE	COMMENTS
1	WOODEN PERGOLA. SEE NOTE #4 ON FURNISHINGS PLAN.	BALDWIN PERGOLAS WWW.BALDWINPERGOLAS.COM	STAINED WOOD	14'X 28'	SALES@BALDWINPERGOLAS.COM MIDDLETOWN, CT P: (800) 344-5103
TBD	EXPOSED AGGREGATE CONCRETE AT POOL DECK. SEE NOTE #5 ON FURNISHINGS PLAN.	PREMIERE CONCRETE BOMANITE OR EQUAL	EXPOSED AGGREGATE	N/A	PREMIERE CONCRETE
TBD	ADA SPECIALTY STABILIZED STONEDUST FOR DOG PARK, & CORNHOLE AREA. SEE DETAIL.	READ CUSTOM SOILS WITH ORGANIC-LOCK STABILIZER SOLUTIONS.	NATURAL GRAY	VARIES. SEE PLANS.	NORTHERN NEW ENGLAND BLENDING FACILITY 37 POWER RD. WESTFORD, MA 01886
TBD	CONC. PAVERS	UNILOCK PAVERS OR EQUAL WWW.UNILOCK.COM	GRAY	VARIES	ASHLEY ALLARD-LACROIX COMMERCIAL SALES - UNILOCK NEW YORK, INC. BOSTON DIVISION OFFICE: 508-278-4536 EXT.4046 CELL: 508-277-4413 UNILOCK.COM 1-800-UNILOCK



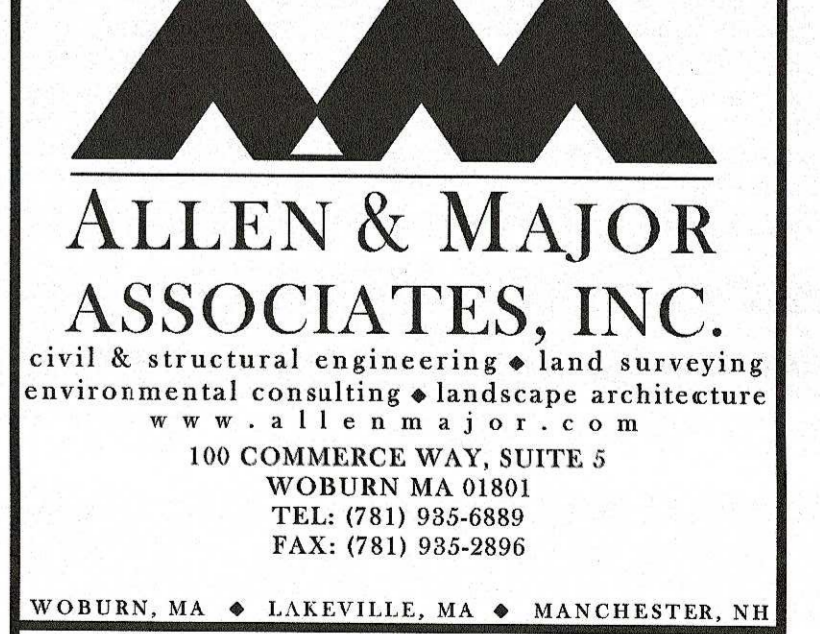
REV	DATE	DESCRIPTION
5	05-18-20	REVISED PER CITY COMMENTS
4	02-20-20	VARIOUS REVISIONS
3	02-03-20	VARIOUS REVISIONS
2	01-31-20	RESUBMITTED FOR LOCAL APPROVAL
1	12-20-19	ISSUED FOR LOCAL APPROVAL

APPLICANT/OWNER:
WP MARLBOROUGH MA OWNER, LLC
9 WEST BROAD STREET, SUITE 800
STAMFORD, CT 06902

PROJECT:
MULTI-FAMILY DEVELOPMENT
339 BOSTON POST ROAD EAST
MARLBOROUGH, MA

PROJECT NO. 2658-01 DATE: 12-20-2019
SCALE: 1" = 40' DWG. NAME: C2658-01

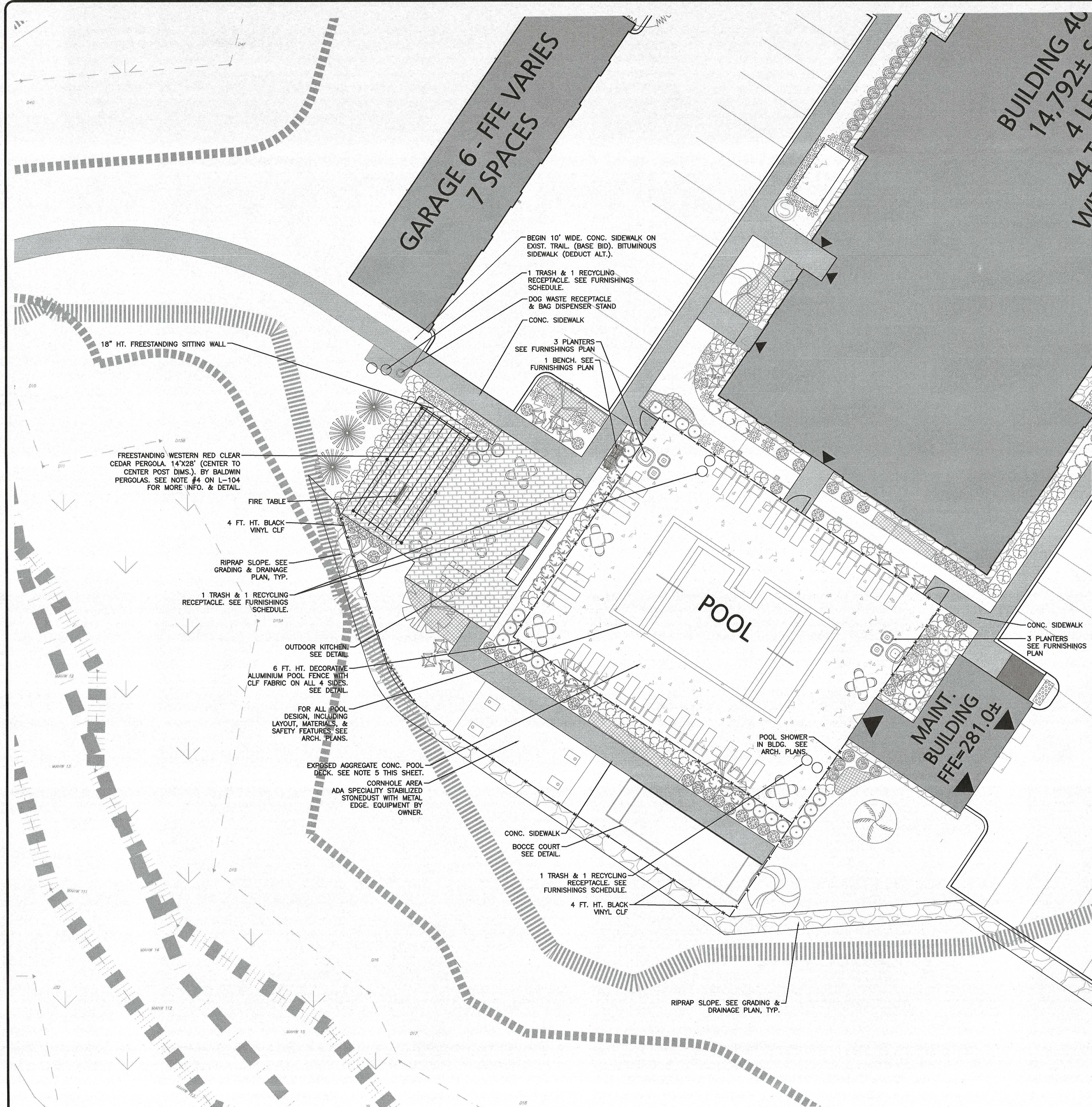
DESIGNED BY: SJL/DMR CHECKED BY: CMQ



THIS DRAWING HAS BEEN PREPARED IN ELECTRONIC FORMAT. CLIENT/CITY REPRESENTATIVE OR CONSULTANT MAY BE PROVIDED COPIES OF DRAWINGS AND SPECIFICATIONS ON MAGNETIC MEDIA FOR HIS/HER INFORMATION AND USE FOR SPECIFIC APPLICATION TO THIS PROJECT. DUE TO THE POTENTIAL THAT THE MAGNETIC INFORMATION MAY BE MODIFIED UNINTENTIONALLY OR OTHERWISE, ALLEN & MAJOR ASSOCIATES, INC. MAY REMOVE ALL INDICATION OF THE DOCUMENT'S AUTHORITY ON THE MAGNETIC MEDIA. PRINTED REPRESENTATIONS OF THE DRAWINGS AND SPECIFICATIONS ISSUED SHALL BE THE ONLY RECORD COPIES OF ALLEN & MAJOR ASSOCIATES, INC.'S WORK PRODUCT.

DRAWING TITLE: **HARDSCAPE PLAN** SHEET No. **L-103**

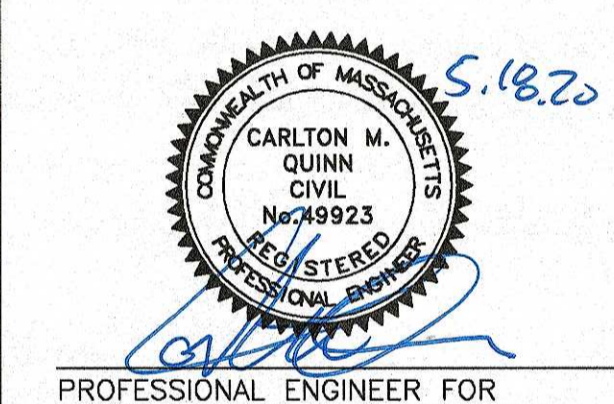




- NOTES:**
1. THE INFORMATION SHOWN ON THIS PLAN IS THE SOLE PROPERTY OF ALLEN & MAJOR ASSOCIATES, INC. ITS INTENDED USE IS TO PROVIDE INFORMATION. ANY ALTERATION, MISUSE, OR RECALCULATION OF INFORMATION OR DATA WITHOUT THE EXPRESSED, WRITTEN CONSENT OF ALLEN & MAJOR ASSOCIATES, INC. IS STRICTLY PROHIBITED.
 2. THIS PLAN WAS PREPARED USING AVAILABLE SITE INFORMATION FROM SEVERAL SOURCES, SOME OF WHICH IS UNCONFIRMED. THE EXISTING CONDITIONS SURVEY BASE WAS TAKEN FROM A PLAN ENTITLED "EXISTING CONDITIONS, V-101" PREPARED BY ALLEN & MAJOR ASSOCIATES, INC. DATED JULY, 2019, ORIGINAL SCALE 1"=80'.
 3. ALL LANDSCAPED AREAS WITH SHRUBS, TREES, AND PERENNIALS TO HAVE 18" MINIMUM DEPTH OF TOPSOIL. EIGHTEEN INCHES OF TOPSOIL AROUND TREES AND SHRUBS DOES NOT INCLUDE AMENDED PLANTING SOIL WITHIN TREE / SHRUB PIT FOR FULL DEPTH OF ROOTBALLS. SEE PLANTING DETAILS FOR PLANTING DEPTH AT SHRUBS AND TREES. ALL AREAS OF LOAM AND SEED OR LOAM & SOO TO HAVE 6" MINIMUM DEPTH OF TOPSOIL. TOPSOIL TO BE TESTED BY CONTRACTOR, AND APPROVED BY A&M PRIOR TO PURCHASE AND OR PLACEMENT. GENERAL CONTRACTOR, DEMOLITION CONTRACTOR, AND LANDSCAPE CONTRACTOR TO COORDINATE PROPER DEPTH OF EXISTING MATERIAL REMOVAL ACROSS SITE SO THAT 18" MINIMUM AND 6" MINIMUM DEPTHS OF PROPOSED TOPSOIL NOTED ABOVE ARE MET AT NO ADDITIONAL COST TO OWNER. SEE TOPSOIL DETAIL.
 4. PERGOLA DESIGNED & BUILT BY BALDWIN PERGOLAS. BALDWINPERGOLAS.COM (MIDDLETOWN, CT). PERGOLA TO BE WESTERN RED CLEAR CEDAR, 10 FT. TALL, 8"x8" POSTS, 2"x6" BEAMS, JAPANESE STYLE ANGLE CUT RAFTERS, 4 FT. DEPTH MIN. CONC. FOOTINGS, STAINED OR LEFT NATURAL CEDAR. FOR PRICING PURPOSES ONLY STAINED WITH 2 COATS. PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO ORDERING. PERGOLA STRUCTURE INCLUDING FASTENERS, WOOD SIZING, AND FOOTINGS TO BE REVIEWED AND APPROVED BY STRUCTURAL ENGINEER LICENSED IN THE STATE OF MA & AT CONTRACTORS COST. PERGOLA CONTRACTOR TO COORD. PERGOLA INSTALLATION WITH ADJACENT LIGHTING, POOL, SIDEWALK, AND FOOTING CONTRACTORS.
 5. EXPOSED AGGREGATE CONC. POOL DECK TO BE BOMANITE EXPOSED AGGREGATE. SHOP DRAWINGS TO BE PROVIDED PRIOR TO CONSTRUCTION. COLOR TO BE SELECTED BY OWNER/LANDSCAPE ARCHITECT. EFFECT SHOULD BE TO SIMULATE A GRANITE LOOK.
 6. SEE SHEET L-103, L-502, L-503 FOR ADDITIONAL HARDSCAPE & FURNISHINGS INFORMATION.

FURNISHINGS SCHEDULE

QUANTITY	ITEM	COMPANY	COLOR	SIZE	COMMENTS
1	CASPIAN 6 PIECE DINING SET	ALL MODERN	NATURAL TEKWOOD, TITANIUM FABRIC	40WX63L	WWW.ALLMODERN.COM
8	CASPIAN 5 PIECE DINING SET	ALL MODERN	NATURAL TEKWOOD, TITANIUM FABRIC	40WX40L	WWW.ALLMODERN.COM
8	DOUBLE VENT UMBRELLA	LEISURE CREATIONS FURNITURE	PACIFIC BLUE	9' OCTAGONAL	866-464-6575 WWW.LEISURECREATIONS.COM
10	SANTA BARBARA MODULAR SQUARE MODULAR SEAT - 6113	LEISURE CREATIONS FURNITURE	PACIFIC BLUE FABRIC, PLATINUM FRAME	DIMENSIONS (W X D X H): 34" X 34" X 25" SEAT HEIGHT: 16"	866-464-6575 WWW.LEISURECREATIONS.COM
5	SANTA BARBARA MODULAR CENTER MODULAR SEAT - 6103	LEISURE CREATIONS FURNITURE	PACIFIC BLUE FABRIC, PLATINUM FRAME	DIMENSIONS (W X D X H): 34" X 34" X 25" SEAT HEIGHT: 16"	866-464-6575 WWW.LEISURECREATIONS.COM
1	PREMIUM TABLE TOP SLAT PATTERN 42 X 60 SLAT RECTANGLE SLTR4260	LEISURE CREATIONS FURNITURE	PLATINUM FRAME	42 X 60 HEIGHT: 16"	866-464-6575 WWW.LEISURECREATIONS.COM
10	URBAN LOFT SIDE TABLE 15916	LEISURE CREATIONS FURNITURE	WHITE	16DX16W	866-464-6575 WWW.LEISURECREATIONS.COM
30	URBAN LOFT SLING CHAISE LOUNGE	LEISURE CREATIONS FURNITURE	CORNICHE GRAY FABRIC, ALUMINUM METALIC FRAME	32DX79W	866-464-6575 WWW.LEISURECREATIONS.COM
1	65" X 39" FLO FIRE TABLE	BROWN JORDAN FIRES	GRAY/NATURAL	65" X 39" X 24" (CUSTOM HT.) WITH 12" HT. GLASS SHIELD	PHONE: 800-231-9790
1	SCARBOROUGH BENCH	LANDSCAPE FORMS	POWDERCOATED COLOR TBD	BACKED 72" LENGTH WITH END ARMS	PHONE: 800-430-6209
3	DOG RECEPTACLE & DISPENSER STAND	PET PICKUPS	TBD	6' HT.	PHONE: 303-443-8914
6 TOTAL (2 DIFFERENT SIZES)	LARKSPUR PLANTERS	LANDSCAPE FORMS	TBD	(2) AT 30" TALL & (4) AT 24" TALL	PHONE: 800-430-6209
12 TOTAL (6 RECYCLE & 6 TRASH)	TRASH & RECYCLE RECEPTACLES	LANDSCAPE FORMS	TBD	29" DIA. & 34 1/2" TALL	PHONE: 800-430-6209
1 PACKAGE OF	DOG PARK PLAY EQUIPMENT PACKAGE OF 10 ITEMS; MODEL RECFO200X; "BEGGIN FOR MORE PACKAGE" (INCLUDES: CAMEL HUMP CLIMBER, THROUGH THE TUNNEL, HOME SWEET HOME, DOG LOG, JUMP THROUGH, LET'S REST, WALK THE PLANK, HIGH JUMP, STEPPING UP, & OVER AND UNDER	SUPERIOR RECREATIONAL PRODUCTS	TBD	VARIOUS SIZES	866-547-4281 OR 617-244-3317 FOR LOCAL REP. DOUG KNOTTS



PROFESSIONAL ENGINEER FOR ALLEN & MAJOR ASSOCIATES, INC.

REV	DATE	DESCRIPTION
5	05-18-20	REVISED PER CITY COMMENTS
4	02-20-20	VARIOUS REVISIONS
3	02-03-20	VARIOUS REVISIONS
2	01-31-20	RESUBMITTED FOR LOCAL APPROVAL
1	12-20-19	ISSUED FOR LOCAL APPROVAL

APPLICANT/OWNER:
WP MARLBOROUGH MA OWNER, LLC
9 WEST BROAD STREET, SUITE 800
STAMFORD, CT 06902

PROJECT:
MULTI-FAMILY DEVELOPMENT
339 BOSTON POST ROAD EAST
MARLBOROUGH, MA

PROJECT NO. 2658-01 DATE: 12-20-2019
SCALE: 1"=40' DWG. NAME: C2658-01

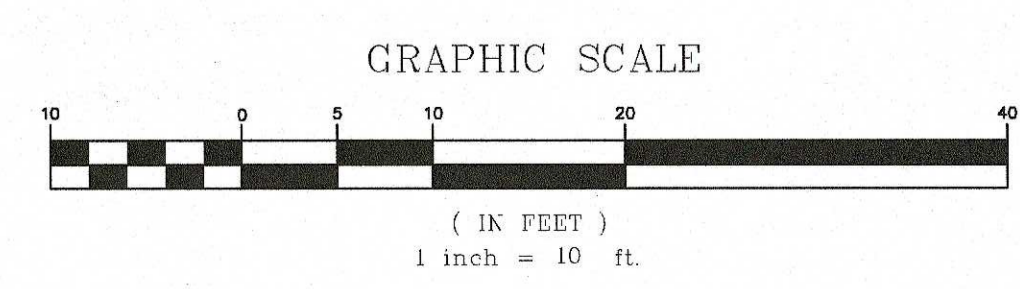
DESIGNED BY: SJL/DMR CHECKED BY: CMQ



WOUBURN, MA • LAKEVILLE, MA • MANCHESTER, NH

THIS DRAWING HAS BEEN PREPARED IN ELECTRONIC FORMAT. CLIENT/CUSTOMER REPRESENTATIVE OR CONSULTANT MAY BE PROVIDED COPIES OF DRAWINGS AND SPECIFICATIONS ON MAGNETIC MEDIA FOR HIS/HER INFORMATION AND USE FOR SPECIFIC APPLICATION TO THIS PROJECT. DUE TO THE POTENTIAL THAT THE MAGNETIC INFORMATION MAY BE MODIFIED UNINTENTIONALLY OR OTHERWISE, ALLEN & MAJOR ASSOCIATES, INC. MAY REMOVE ALL INDICATION OF THE DOCUMENTS AUTHORITY ON THE MAGNETIC MEDIA. PRINTED REPRESENTATIONS OF THE DRAWINGS AND SPECIFICATIONS ISSUED SHALL BE THE ONLY RECORD COPIES OF ALLEN & MAJOR ASSOCIATES, INC.'S WORK PRODUCT.

DRAWING TITLE: **HARDSCAPE & FURNISHINGS PLAN** SHEET No. **L-104**

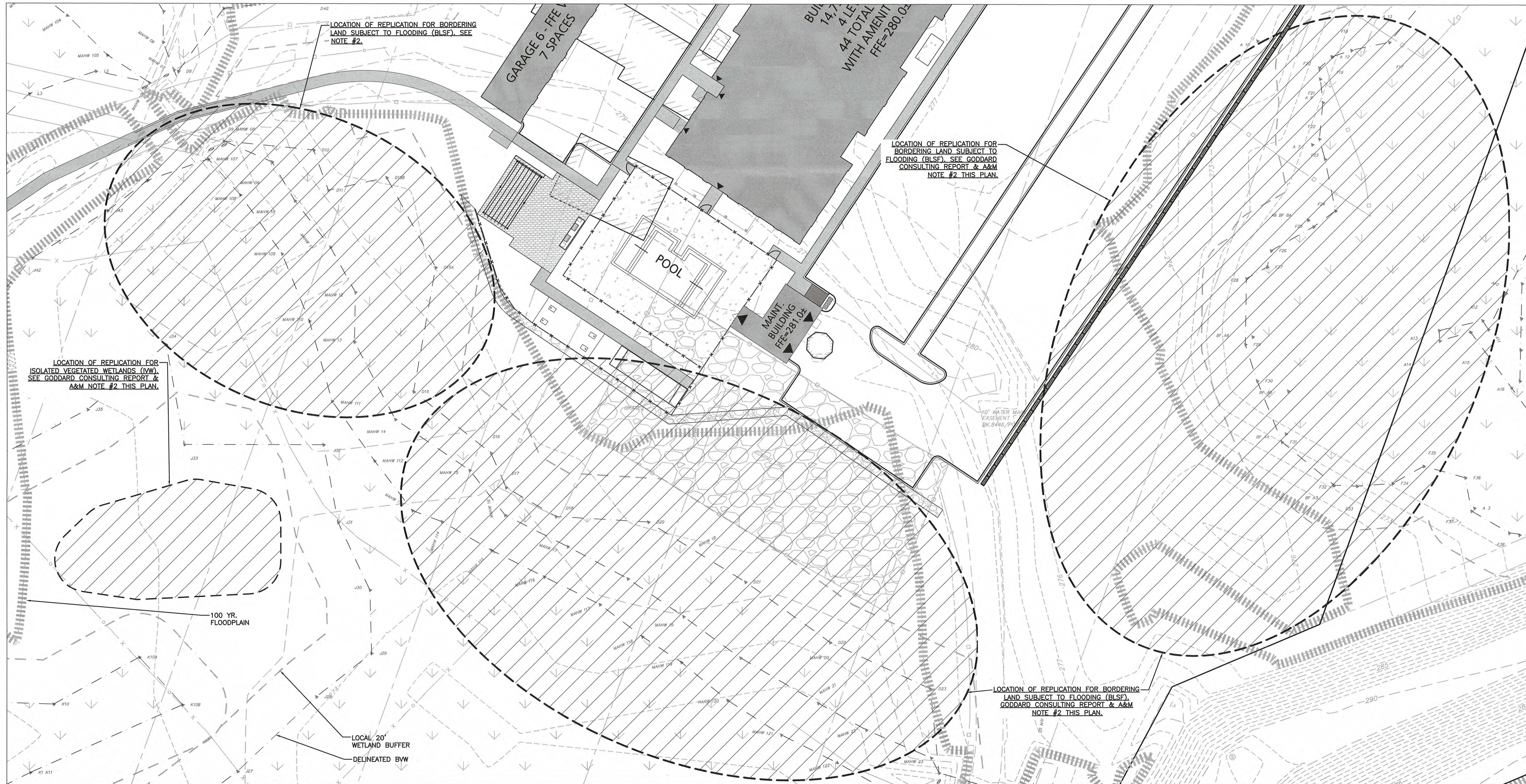


N:\PROJECTS\2658-01\CIVIL DRAWINGS\CURRENT SITE PLANS\C-2658-01_HARDSCAPE MATERIALS PLAN.DWG

LEGEND	
PROPERTY LINE	---
DISTURBANCE AREAS OF IVW OR BLSF	
IVW WETLAND REPLICATION AREA	
EXIST. BWV/ BANK RESOURCE LIMITS	

NOTES:
 1. THE INFORMATION SHOWN ON THIS PLAN IS THE SOLE PROPERTY OF ALLEN & MAJOR ASSOCIATES, INC. ITS INTENDED USE IS TO PROVIDE INFORMATION. ANY ALTERATION, MISUSE, OR RECALCULATION OF INFORMATION OR DATA WITHOUT THE EXPRESSED, WRITTEN CONSENT OF ALLEN & MAJOR ASSOCIATES, INC. IS STRICTLY PROHIBITED.

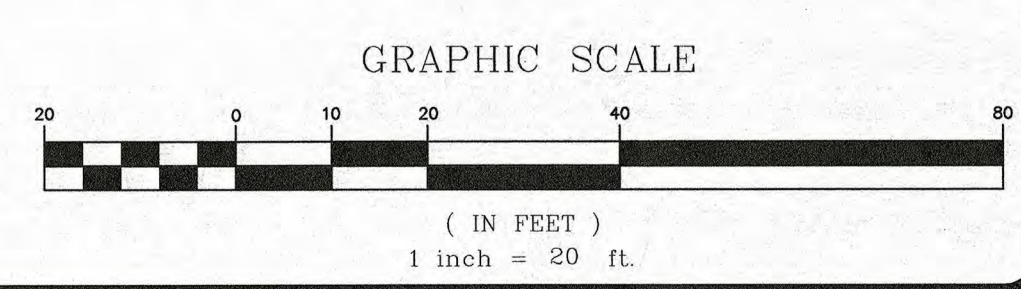
2. THIS PLAN IS TO ILLUSTRATE CONCEPTUAL AREAS OF REPLICATION. IT IS NOT INTENDED TO BE A DETAILED PLAN. FOR ALL SPECIFIC CONSTRUCTION INFORMATION INCLUDING DETAILED LOCATIONS OF REPLICATION, EROSION CONTROL, GRADING AND PLANTING, SEE REPORT PREPARED BY GODDARD CONSULTING ENTITLED "SUPPLEMENTAL SUBMITTAL" DATED 5/7/20.



CONCEPTUAL REPLICATION AREAS (SEE GODDARD CONSULTING REPORT FOR DETAILED INFORMATION)
 SCALE: 1"=20'

DIG SAFE

 BEFORE YOU DIG
 CALL 811 OR
 1-888-DIG-SAFE
 1-888-344-7233



PROFESSIONAL ENGINEER FOR ALLEN & MAJOR ASSOCIATES, INC.

REV	DATE	DESCRIPTION
5	05-18-20	REVISED PER CITY COMMENTS
4	02-20-20	VARIOUS REVISIONS
3	02-03-20	VARIOUS REVISIONS
2	01-31-20	RESUBMITTED FOR LOCAL APPROVAL
1	12-20-19	ISSUED FOR LOCAL APPROVAL

APPLICANT/OWNER:
 WP MARLBOROUGH MA OWNER, LLC
 9 WEST BROAD STREET, SUITE 800
 STAMFORD, CT 06902

PROJECT:
 MULTI-FAMILY DEVELOPMENT
 339 BOSTON POST ROAD EAST
 MARLBOROUGH, MA

PROJECT NO.	2658-01	DATE:	12-20-2019
SCALE:	AS NOTED	DWG. NAME:	C-2658-01
DESIGNED BY:	SIL/DMR	CHECKED BY:	CMQ

PREPARED BY:

ALLEN & MAJOR ASSOCIATES, INC.
 civil & structural engineering • land surveying
 environmental consulting • landscape architecture
 www.allenmajor.com
 100 COMMERCE WAY, SUITE 5
 WOBURN MA 01801
 TEL: (781) 935-6889
 FAX: (781) 935-2896

WOBURN, MA • LAKEVILLE, MA • MANCHESTER, NH

THIS DRAWING HAS BEEN PREPARED IN ELECTRONIC FORMAT. CLIENT/CLIENT'S REPRESENTATIVE OR CONSULTANT MAY BE PROVIDED COPIES OF DRAWINGS AND SPECIFICATIONS ON MAGNETIC MEDIA FOR HIS/HER INFORMATION AND USE FOR SPECIFIC APPLICATION TO THIS PROJECT. DUE TO THE POTENTIAL THAT THE MAGNETIC INFORMATION MAY BE MODIFIED UNINTENTIONALLY OR OTHERWISE, ALLEN & MAJOR ASSOCIATES, INC. MAY REMOVE ALL INDICATION OF THE DOCUMENT'S AUTHORSHIP ON THE MAGNETIC MEDIA. PRINTED REPRESENTATIONS OF THE DRAWINGS AND SPECIFICATIONS ISSUED SHALL BE THE ONLY RECORD COPIES OF ALLEN & MAJOR ASSOCIATES, INC.'S WORK PRODUCT.

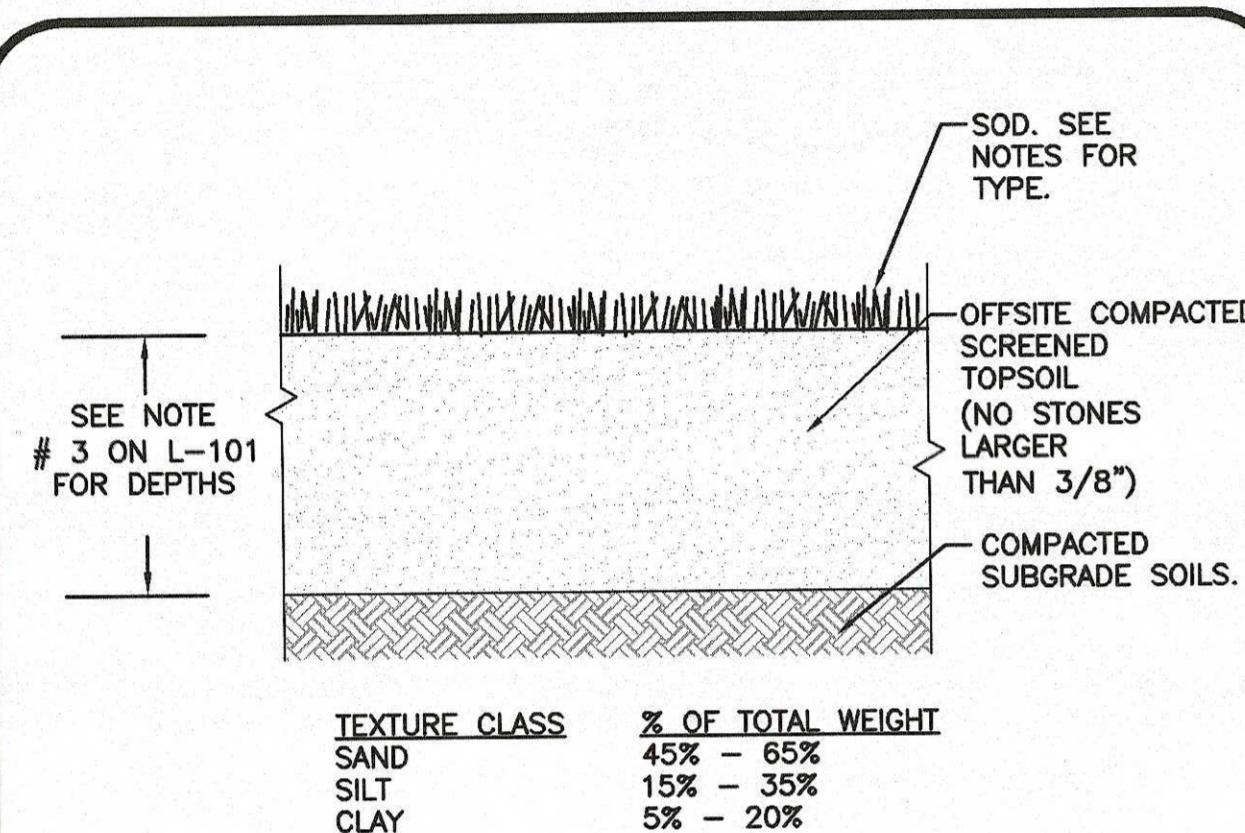
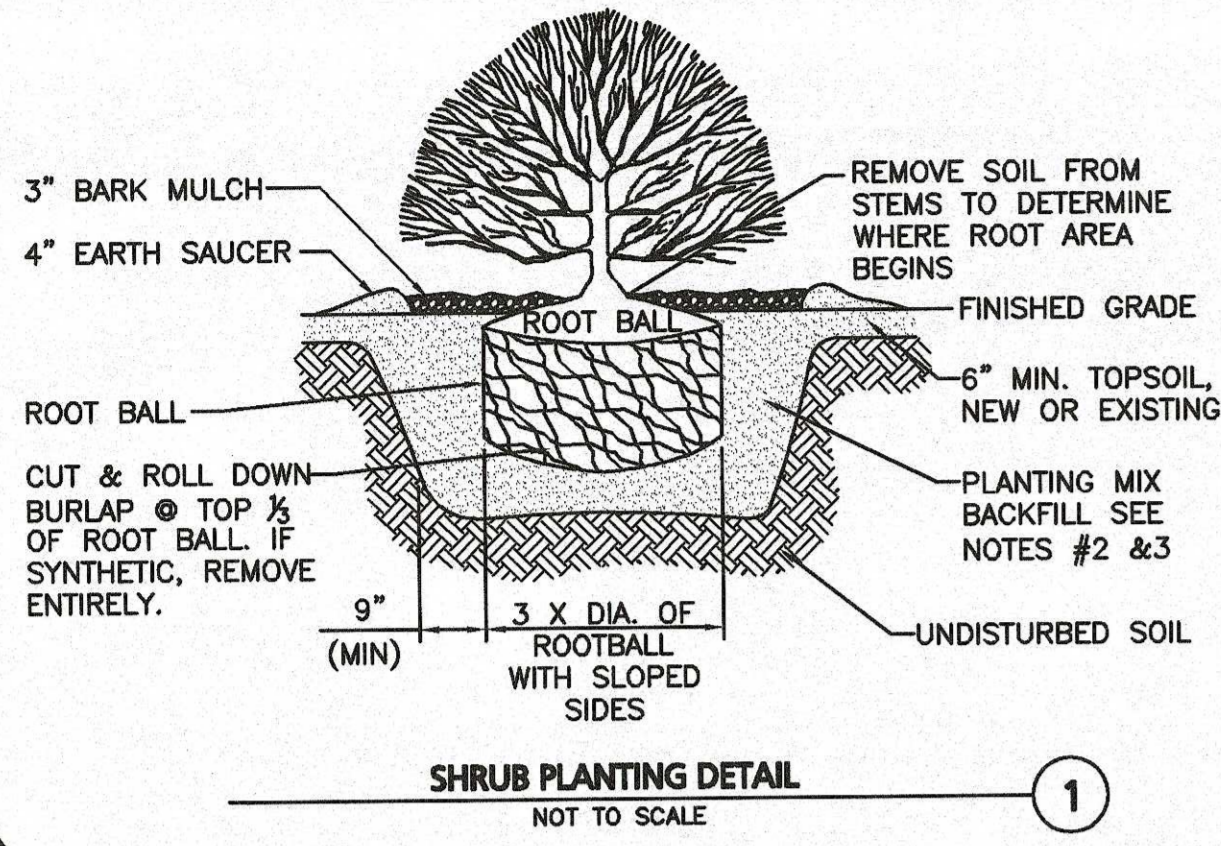
DRAWING TITLE:
 CONCEPTUAL LOCATION
 PLAN OF REPLICATION
 AREAS

SHEET No.
 L-201

Copyright © 2020 Allen & Major Associates, Inc.
 All Rights Reserved

M:\PROJECTS\2658-01\CIVIL\DRAWINGS\CURRENT\SITE PLANS\C-2658-01_WETLANDS REPLICATION.DWG

- NOTES:**
- ALL SHRUBS SHALL HAVE THE SAME RELATIONSHIP TO FINISH GRADE AS THEY HAD AT THE ORIGINAL NURSERY SETTING. SET SHRUB 1" - 2" ABOVE FINISH GRADE.
 - BACKFILL WITH PLANTING MIX. PLANT MIX TO BE: 50% NATIVE TOPSOIL, 20% COMPOST (LEAVES & ORGANIC MATERIAL, NO ASH) 20% PEAT MOSS, 10% SAND.
 - ADD MYCORRHIZA SOIL ADDITIVES AND SLOW RELEASE FERTILIZER WHEN PLANT HOLES ARE 50% FILLED AND WATER THOROUGHLY AT COMPLETION.
 - SHRUB BEDS TO HAVE 24" MIN. OF CONTINUOUS PLANTING SOIL.

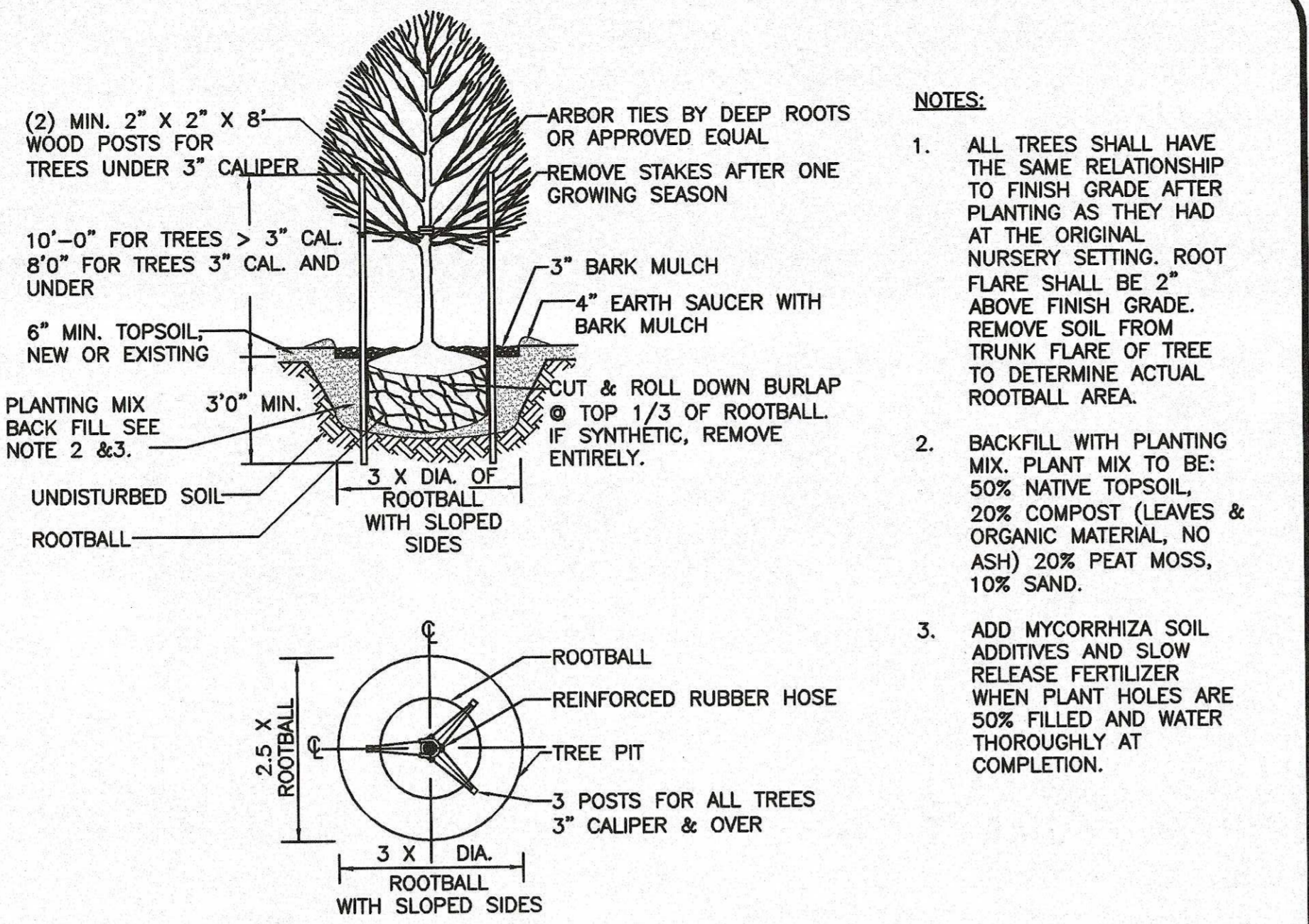
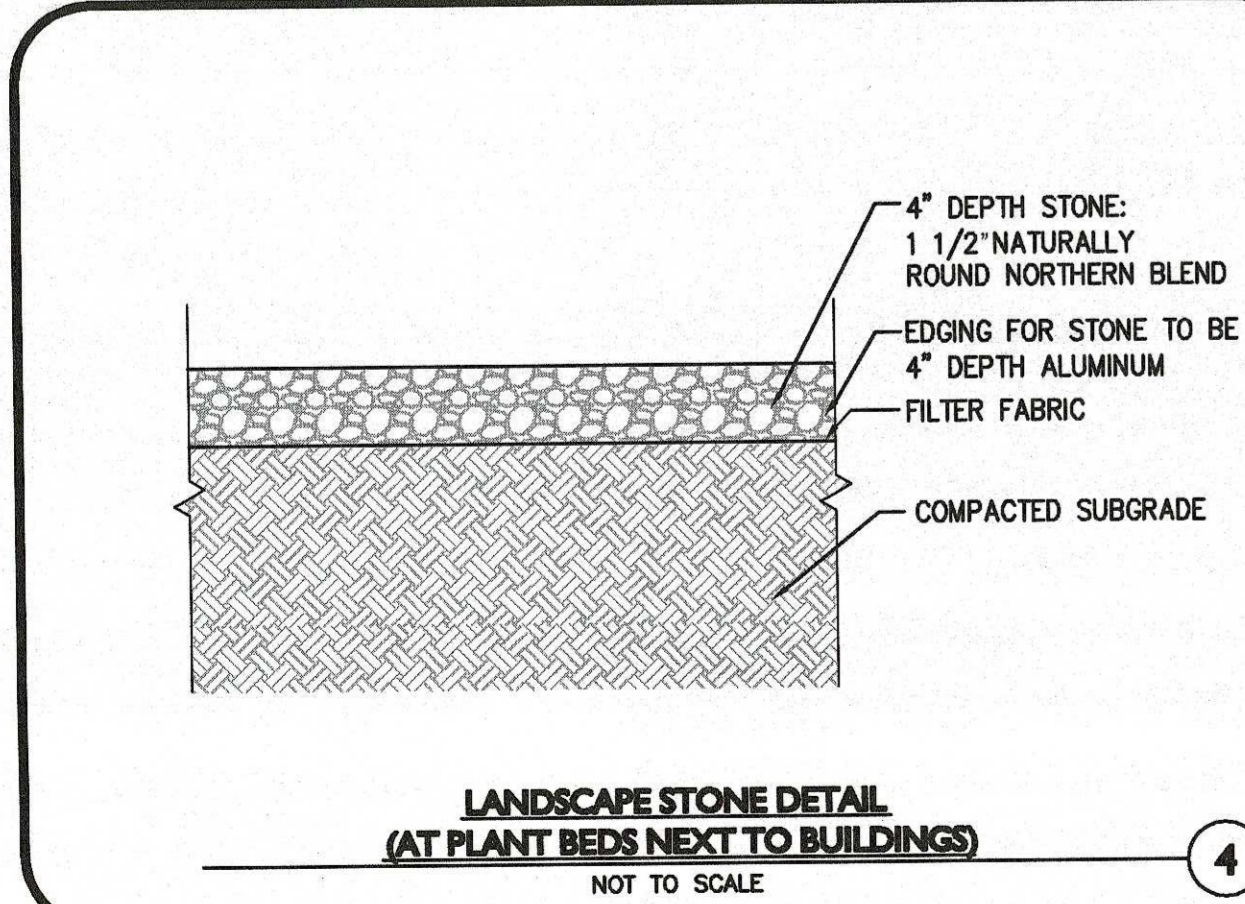


TEXTURE CLASS	% OF TOTAL WEIGHT
SAND	45% - 65%
SILT	15% - 35%
CLAY	5% - 20%

SIZE	% PASSING
3/8"	100
No. 4	85-100
No. 40	60-85
No. 100	35-60
No. 200	10-35
20 µm	LESS THAN 5%

- NOTES:**
- TOP OF LOAM (TOPSOIL) IS FINISH GRADE.
 - ALL TOPSOIL SHALL BE COMPOSED OF A NATURAL, FERTILE, FRIABLE SOIL TYPICAL OF CULTIVATED TOPSOILS OF THE LOCALITY. ALL TOPSOIL SHALL BE SUITABLE FOR THE GERMINATION OF SEEDS AND SUPPORT OF VEGETATIVE GROWTH. WITH ADDITIVES, IF REQUIRED, TO ACHIEVE PARTICLE DISTRIBUTION AND ORGANIC CONTENT BELOW. TOPSOIL SHALL BE TAKEN FROM AN OFFSITE WELL-DRAINED, AIRABLE SITE, FREE OF SUBSOIL, LARGE STONES, EARTH CLODS, STICKS, STUMPS, CLAY LUMPS, ROOTS, OTHER OBSTACLES, EXTRANEUS MATTER OR DEBRIS NOR CONTAIN TOXIC SUBSTANCES.
 - THE CONTRACTOR SHALL PROVIDE THE OWNER / LANDSCAPE ARCHITECT WITH TOPSOIL TEST RESULTS (RECOMMENDED ULMASS AMHERST SOIL TESTING LAB) FOR APPROVAL PRIOR TO OBTAINING AND PLACING THE SOIL. IF ANY TOPSOIL IS PURCHASED OR PLACED PRIOR TO APPROVAL BY OWNER / LANDSCAPE ARCHITECT, IT IS AT CONTRACTOR'S RISK, AND IT CAN BE REMOVED AT NO ADDITIONAL COST TO THE OWNER. IF THE TOPSOIL DOES NOT FALL WITHIN THE REQUIRED SIEVE ANALYSIS, TEXTURAL CLASS, ORGANIC CONTENT, OR PH RANGE, IT SHALL BE ADJUSTED TO MEET THE SPECIFICATIONS THROUGH THE ADDITION OF SAND, COMPOST, LIMESTONE, OR ALUMINUM SULFATE TO BRING IT WITHIN THE SPECIFIED LIMITS AT NO ADDITIONAL COST TO THE OWNER.
 - ALL TOPSOIL SHALL HAVE A PH VALUE BETWEEN 6.5 AND 6.8. TOPSOIL SHALL CONTAIN BETWEEN 4% AND 8% ORGANIC MATTER OF TOTAL DRY WEIGHT AND SHALL CONFORM TO THE FOLLOWING GRADATION AND TEXTURE CLASS ABOVE.

TOPSOIL FOR LAWN, SEEDED AREAS, TREES, SHRUBS, & PERENNIALS
NOT TO SCALE



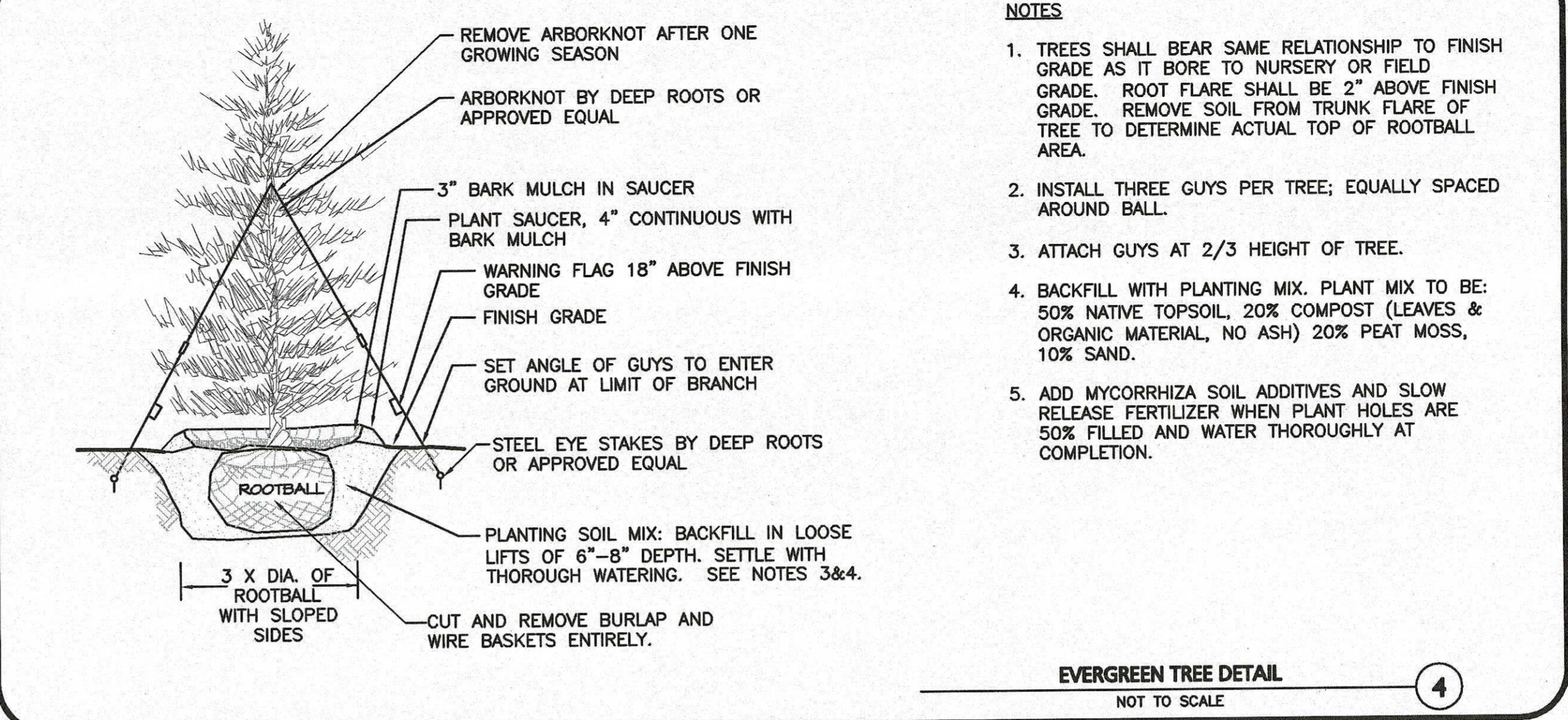
LANDSCAPE NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF MARLBOROUGH, MA.
- PLANTING PLAN IS DIAGRAMMATIC IN NATURE. FINAL PLACEMENT OF PLANTS TO BE APPROVED BY THE LANDSCAPE ARCHITECT IN THE FIELD.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES, ANY PERMITTING AGENCIES, AND "DIG-SAFE" (1-888-344-7233) AT LEAST 72 HOURS IN ADVANCE OF ANY WORK THAT WILL REQUIRE EXCAVATION. CONTRACTOR SHALL NOTIFY THE OWNERS REPRESENTATIVE OF ANY CONFLICTS IN WRITING.
- NO PLANT MATERIAL SHALL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA, ANY TREES NOTED AS "SEAL OR SELECTED SPECIMEN" SHALL BE TAGGED AND SEALED BY THE LANDSCAPE ARCHITECT.
- ALL TREES SHALL BE BALLED AND BURLAPPED (B&B) UNLESS OTHERWISE NOTED OR APPROVED BY THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT.
- CONTRACTOR SHALL VERIFY QUANTITIES SHOWN ON PLANT LIST. QUANTITIES SHOWN ON PLANS SHALL GOVERN OVER PLANT LIST.
- ANY PROPOSED PLANT SUBSTITUTIONS MUST BE APPROVED IN WRITING BY OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT.
- ALL PLANT MATERIALS INSTALLED SHALL MEET THE GUIDELINES ESTABLISHED BY THE STANDARDS FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
- ALL PLANT MATERIALS SHALL BE GUARANTEED FOR ONE YEAR FOLLOWING DATE OF ACCEPTANCE. ANY PLANT MATERIALS WHICH DIE WITHIN THE ONE YEAR PLANT GUARANTEE PERIOD WILL BE REPLACED BY THE LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNERS. OWNERS TO COORDINATE DIRECTLY WITH THE LANDSCAPE CONTRACTOR FOR REPLACEMENT PLANTINGS.
- ALL DISTURBED AREAS NOT OTHERWISE NOTED SHALL RECEIVE 6" OF SUITABLE LOAM & SEED LAWNS WITH 3:1 OR STEEPER (GREATER) SLOPES SHALL BE PROTECTED WITH JUTE EROSION CONTROL NETTING.
- ANY FALL TRANSPLANTING HAZARD PLANTS SHALL BE DUG IN THE SPRING AND STORED FOR FALL PLANTING.
- TREES SHALL HAVE A MINIMUM CALIBER AS INDICATED ON THE PLANTING SCHEDULE TAKEN ONE FOOT ABOVE THE ROOT CROWN.
- ALL PLANT BEDS AND TREE SAUCERS TO RECEIVE 3" OF PINE BARK MULCH. GROUND COVER AREAS SHALL RECEIVE 1" OF PINE BARK MULCH.
- ALL DECIDUOUS TREES ADJACENT TO WALKWAYS AND ROADWAYS SHALL HAVE A BRANCHING PATTERN TO ALLOW FOR A MINIMUM OF 7" OF CLEARANCE BETWEEN THE GROUND AND THE LOWEST BRANCH.
- ALL TREE STAKES SHALL BE STAINED DARK BROWN.
- CONTRACTOR RESPONSIBLE FOR WATERING, MAINTENANCE, FERTILIZING, AND RESEEDING OF LAWN BARE SPOTS UNTIL A UNIFORM STAND OF VEGETATION IS ESTABLISHED AND ACCEPTED.
- ALL PARKING ISLANDS PLANTED WITH SHRUBS OR PERENNIALS SHALL HAVE 24" OF TOPSOIL. FINISH GRADE SHALL BE EQUAL TO THE TOP OF CURB.
- SOIL SAMPLES, TESTS, AND SHOP DRAWINGS SHALL BE PROVIDED TO THE LANDSCAPE ARCHITECT OR THE OWNER FOR APPROVAL PRIOR TO CONSTRUCTION.
- AN MINIMUM 18" WIDE BARRIER OF 1" GRAY OR TAN PEASTONE SHALL BE INSTALLED IN ALL PLANT BEDS WHICH ABUT THE BUILDINGS. NO MULCH IS ALLOWED WITHIN 18" OF ALL BUILDINGS PER THE EXECUTIVE OFFICE OF PUBLIC SAFETY AND SECURITY DEPARTMENT OF FIRE SERVICES REGULATION (927 CMR 17.00). INSTALL 6" DEEP PEASTONE WITH MIRAFI WEED FABRIC BENEATH AND STEEL EDGING BETWEEN THE PEASTONE AND ADJACENT MULCH BED. PROVIDE SHOP DRAWINGS TO A&M FOR APPROVAL PRIOR TO PURCHASE OF PEASTONE, MIRAFI WEED FABRIC & STEEL EDGING.
- ALL PROPOSED LANDSCAPE AREAS INCLUDING MOWED LAWNS, TREES, SHRUB BEDS, PERENNIALS, AND ANNUALS SHALL BE PROVIDED WITH WATER EFFICIENT UNDERGROUND IRRIGATION. DESIGN AND INSTALLATION OF IRRIGATION SYSTEM TO BE PERFORMED BY AN APPROVED IRRIGATION DESIGN BUDGET CONTRACTOR OR BY AN APPROVED EQUAL TO BE DETERMINED BY THE OWNERS REPRESENTATIVE AND LANDSCAPE ARCHITECT. IRRIGATION SYSTEM IS TO BE DESIGNED FOR EFFICIENT WATER USAGE INCLUDING: USE OF DRIP IRRIGATION FOR TREES, SHRUBS AND PERENNIALS, IRRIGATION SYSTEM WITH HEAD-TO-HEAD COVERAGE, A CENTRAL SHUT-OFF VALVE, SEPARATE ZONES FOR EACH TYPE OF BEDDING AREA BASED ON WATERING NEEDS, AND A RAIN SENSOR TO SHUT OFF IRRIGATION DURING RAIN EVENTS.
- PRIOR TO LAYING TOPSOIL, ALL SUBSOIL (BELOW PROPOSED TOPSOIL) TO BE TILLED TO A DEPTH OF AT LEAST 18" TO REMOVE CONSTRUCTION COMPACTATION AND ALLOW FOR PROPER DRAINAGE OF TOPSOILS.
- SEEDING OF DETENTION AREAS & OTHER SLOPE AREAS SHALL OCCUR IN THE DRY & AFTER SLOPES ARE COMPACTED. IT IS IMPORTANT THAT THE DETENTION BASIN BE SEED AT THE BEGINNING OF THE PROJECT & PRIOR TO ANY DRAINAGE BEING DIRECTED TOWARDS THE BASIN. THE SEED AT DETENTION AREAS & OTHER SLOPED AREAS WILL NEED A MIN. OF 6 MONTHS TO INITIALLY ESTABLISH PRIOR TO THE DETENTION BASIN BEING UTILIZED SO THAT THERE IS NOT EROSION & SLOPE FAILURE. SEED MIXES AVAILABLE FROM NEW ENGLAND WETLAND PLANTS, 820 WEST ST., AMHERST, MA, 413-548-8000. LIGHTLY RAKE SOIL TO ENSURE GOOD SEED-TO-SOIL CONTACT. SEE SEED MIX DETAIL NOTES.

ALL SEEDING TO BE COMPLETED "IN SEASON" BETWEEN APRIL 1 TO JUNE 15 OR AUGUST 15 TO OCTOBER 1, EXCEPT FOR RE-SEEDING OF BARE SPOTS. AT ALL SLOPED AREAS CONTRACTOR TO INSTALL COCONUT FIBER JUTE MESH NETTING ON ALL SLOPES 3:1 AND OVER. HYDROSEED ALL EXPOSED AREAS. ADD SOIL STABILIZER "FLUX TERRA HP-FGM SOIL STABILIZER" AS MANUFACTURED BY "PROFILE" TO COMPLETE ALL ABOVE "OUT OF SEASON" REQUIREMENTS AND THEN ALSO BE RESPONSIBLE FOR RE-GRADING AND RE-SEEDING ALL DISTURBED, ERODED, OR BARE SPOTS AT NO ADDITIONAL COST TO OWNER & UNTIL SLOPES ARE FULLY STABLE. CONTRACTOR RESPONSIBLE FOR ALL MAINTENANCE UNTIL FINAL ACCEPTANCE OF LAWN AREAS INCLUDING: WATERING, ADDING FERTILIZERS AND LIME AND MOWING AT NO ADDITIONAL COST TO OWNER.

AFTER SEEDING, ALL AREAS TO BE LIGHTLY MULCHED WITH WEED FREE STRAW & CONTINUALLY WATERED EVERY DAY UNTIL SEED IS ESTABLISHED & APPROVED BY A&M LANDSCAPE ARCHITECT (USE NO HAV) SO THAT SEED IS KEPT MOIST. FOR SPREADING OF THE SEED WITH DRY DETENTION BASINS, WATER LEVELS MAY BE LOWERED IN THE DETENTION AREAS BY RELYING ON DRY SEASON AND OR DRY SPELLS OR MAY BE ACCOMPLISHED THROUGH THE USE OF DEWATERING METHODS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ANY DEWATERING METHODS FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. WATER FROM ANY DEWATERING OPERATION SHALL BE TREATED TO REDUCE TOTAL SUSPENDED SOLIDS AND BE IN COMPLIANCE WITH STATE AND FEDERAL STANDARDS.

SPREAD THE NEW ENGLAND SEED MIXES AT AREAS SHOWN ON THE PLAN. SEE SEED MIX DETAIL NOTES. SEED MIXES AVAILABLE FROM NEW ENGLAND WETLAND PLANTS, 820 WEST ST., AMHERST, MA, 413-548-8000. LIGHTLY RAKE SOIL TO ENSURE GOOD SEED-TO-SOIL CONTACT.



ADDITIONAL SEED MIX SPECIFICATIONS FOR DETENTION BASINS, AND ALL SLOPE AREAS: (AS NOTED ON THE PLAN)
SEED MIXES:

NEW ENGLAND WETLAND PLANTS
820 WEST STREET, AMHERST, MA 01002
PHONE: 413-548-8000 FAX 413-549-4000
EMAIL: INFO@NEWP.COM WEB ADDRESS: WWW.NEWP.COM

NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES

BOTANICAL NAME	COMMON NAME	INDICATOR
ELYMUS RIPARIUS	RIVERBANK WILD RYE	FACU
FESTUCA RUBRA	RED FESCUE	FACU
SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	FACU
PANICUM VIRGATUM	SWITCH GRASS	FAC
ANDROPOGON GERARDII	BIG BLUESTEM	FAC
VERBENA HASTATA	BLUE VERVAIN	FACW
AGROSTIS PERENNANS	UPLAND BENTGRASS	FACU
BIDENS CERNUA	NODDING BUR MARIGOLD	OBL
EUPATORIUM FISTULOSUM	HOLLOW-STEM JOE PYE WEED	FACW
EUPATORIUM PERFOLIATUM	BONESSET	FACW
ASTER NOVAE-ANGLIAE	NEW ENGLAND ASTER	FACW
SCIRPUS CYPERINUS	WOOL GRASS	FACW
JUNCUS EFFUSUS	SOFT RUSH	FACW+

THE NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES CONTAINS A SELECTION OF NATIVE GRASSES AND WILDFLOWERS DESIGNED TO COLONIZE GENERALLY MOIST, RECENTLY DISTURBED SITES WHERE QUICK GROWTH OF VEGETATION IS DESIRED TO STABILIZE THE SOIL SURFACE. IT IS AN APPROPRIATE SEED MIX FOR ECOLOGICALLY SENSITIVE RESTORATIONS THAT REQUIRE STABILIZATION AS WELL AS LONG-TERM ESTABLISHMENT OF NATIVE VEGETATION. THIS MIX IS PARTICULARLY APPROPRIATE FOR DETENTION BASINS THAT DO NOT HOLD STANDING WATER. MANY OF THE PLANTS IN THIS MIX CAN TOLERATE INFREQUENT INUNDATION, BUT NOT CONSTANT FLOODING. THE MIX MAY BE APPLIED BY HAND, BY MECHANICAL SPREADER, OR BY HYDROSEEDER. AFTER SOWING, LIGHTLY RAKE, ROLL OR CULTIPACK TO INSURE GOOD SEED-TO-SOIL CONTACT. BEST RESULTS ARE OBTAINED WITH A SPRING OR LATE SUMMER SEEDING. LATE FALL AND WINTER DORMANT SEEDING REQUIRES AN INCREASE IN THE APPLICATION RATE. A LIGHT MULCHING OF CLEAN, WEED-FREE STRAW IS RECOMMENDED. PRICE PER LB \$34.00 MIN. QUANTITY 3 LBS. TOTAL \$102.00 APPLY: 35 LBS/ACRE :1250 SQ FT/LB

LOAM AND SODDING:

CONTRACTOR SHALL SOD AREAS NOTED ON THE PLANS OR AT ANY AREA DISTURBED BY CONSTRUCTION NOT NOTED TO BE ANOTHER MATERIAL. SOD IS TO BE A BLEND OF FOUR TO FIVE CURRENT AND IMPROVED HYBRID BLUEGRASS AND FESCUE MIXES APPROPRIATE FOR BOTH SEMI-SHADED AND AREAS OF SUN.

- HYBRIDS MAY INCLUDE: BLACKSTONE KENTUCKY BLUEGRASS, AWARD KENTUCKY BLUEGRASS, CHALLENGER KENTUCKY BLUEGRASS, BLACKBURG II KENTUCKY BLUEGRASS OR COMPARABLE AND EQUAL BLUEGRASS HYBRIDS.
- PROVIDE A&M A SHOP DRAWING FOR APPROVAL PRIOR TO ORDERING OF SOD.
 - SOD SHALL BE HIGH QUALITY, NURSERY GROWN ON CULTIVATED MINERAL AGRICULTURAL SOILS. SOD SHALL BE MOIST, AND MACHINE CUT AT A UNIFORM SOIL THICKNESS OF AT LEAST 3/4" AT TIME OF CUTTING. MEASUREMENT FOR THICKNESS SHALL INCLUDE TOP GROWTH AND THATCH. SOD SHALL BE FREE OF DISEASES, WEEDS, BARE SPOTS, OR INSECTS.
 - SODDING TO BE COMPLETED "IN SEASON" BETWEEN APRIL 1 TO JUNE 15 OR AUGUST 15 TO OCTOBER 1, EXCEPT FOR RE-SODDING OF BARE SPOTS. IF UNABLE TO SOD WITHIN THESE TIMEFRAMES, CONTRACTOR TO INSTALL EROSION CONTROL MATS ON ALL SLOPES 3:1 AND OVER. HYDROSEED ALL EXPOSED AREAS, ADD SOIL STABILIZER "FLUX TERRA HP-FGM SOIL STABILIZER" AS MANUFACTURED BY "PROFILE" TO HYDROSEED (AT RATE OF 3,000 LBS PER ACRE), AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR TO COMPLETE ALL ABOVE "OUT OF SEASON" REQUIREMENTS AND THEN ALSO BE RESPONSIBLE FOR RE-GRADING AND RE-SODDING ALL DISTURBED, ERODED, OR BARE SPOTS WITHIN NEXT CLOSEST PLANTING SEASON IN FALL OR SPRING AT NO ADDITIONAL COST TO OWNER. CONTRACTOR RESPONSIBLE FOR ALL MAINTENANCE UNTIL FINAL ACCEPTANCE OF LAWN AREAS INCLUDING: WATERING, ADDING FERTILIZERS AND LIME AND MOWING AT NO ADDITIONAL COST TO OWNER.
 - COMMERCIAL FERTILIZER SHALL BE APPLIED AT THE RATE OF 25 POUNDS PER 1000 SQ. FT. OR AS RECOMMENDED BY THE TESTING AGENCY. LIME TO BE SPREAD AT THE RATE OF 100 POUNDS PER 1000 SQ. FT. OR AS RECOMMENDED BY THE TESTING AGENCY. COMMERCIAL FERTILIZER SHALL BE A COMPLETE FERTILIZER CONTAINING AT LEAST 50% OF THE NITROGEN OF WHICH IS DERIVED FROM NATURAL ORGANIC SOURCES OF UREAFORM. IT SHALL CONTAIN THE FOLLOWING PERCENTAGES BY WEIGHT: NITROGEN (N) 10%, PHOSPHORUS (P) 6%, POTASH (K) 4%. LIME SHALL BE AN APPROVED AGRICULTURAL LIMESTONE CONTAINING NOT LESS THAN 85% OF TOTAL CARBONATES. LIMESTONE SHALL BE GROUND TO SUCH FINENESS THAT 50% WILL PASS A 100 MESH SIEVE AND 90% WILL PASS THROUGH A 20 MESH SIEVE.
 - CONTRACTOR RESPONSIBLE FOR WATERING, MOWING, AND RE-SODDING OF LAWN BARE SPOTS UNTIL A UNIFORM, HEALTHY STAND OF GRASS IS ESTABLISHED AND ACCEPTED. IF PROPOSED IRRIGATION SYSTEM IS NOT OPERATIONAL, LANDSCAPE CONTRACTOR RESPONSIBLE TO WATER WITH TEMPORARY IRRIGATION OR WATER TRUCKS UNTIL IRRIGATION SYSTEM IS OPERATIONAL AT NO ADDITIONAL COST.

LOAM AND SEEDING NOTES:

CONTRACTOR SHALL SEED ALL DISTURBED AREAS NOT NOTED TO RECEIVE OTHER MATERIALS, AND AT AREAS SHOWN ON THE PLAN PER SPECIFICATIONS BELOW

SCIENTIFIC NAME	COMMON NAME	PROPORTION BY WEIGHT	PERCENT PURITY	PERCENT GERMINATION
FESTUCA RUBRA "RUBRA"	CREeping RED FESCUE	37%	95%	90%
PAO PRAESENSIS "BARON"	BARON KENTUCKY BLUEGRASS	40%	85%	90%
LOLIUM PERENNE "PALMER"	PALMER PERENNIAL RYEGRASS	15%	95%	90%
FESTUCA RUBRA COMMUTATA WILMA	WILMA CHEWINGS	8%	95%	90%

- SEED TO BE SPREAD AT MINIMUM RATE OF 5 LBS. PER 1000 SQ. FT.
- SEEDING TO BE COMPLETED "IN SEASON" BETWEEN APRIL 1 TO JUNE 15 OR AUGUST 15 TO OCTOBER 1, EXCEPT FOR RESEEDING OF BARE SPOTS. IF UNABLE TO SOD WITHIN THESE TIMEFRAMES, CONTRACTOR TO INSTALL EROSION CONTROL MATS ON ALL SLOPES 3:1 AND OVER. HYDROSEED ALL EXPOSED AREAS, ADD SOIL STABILIZER "FLUX TERRA HP-FGM SOIL STABILIZER" AS MANUFACTURED BY "PROFILE" TO HYDROSEED (AT RATE OF 3,000 LBS PER ACRE), AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR TO COMPLETE ALL ABOVE "OUT OF SEASON" REQUIREMENTS AND THEN ALSO BE RESPONSIBLE FOR RE-GRADING AND RE-SEEDING ALL DISTURBED, ERODED, OR BARE SPOTS WITHIN NEXT CLOSEST PLANTING SEASON IN FALL OR SPRING AT NO ADDITIONAL COST TO OWNER. CONTRACTOR RESPONSIBLE FOR ALL MAINTENANCE UNTIL FINAL ACCEPTANCE OF LAWN AREAS INCLUDING: WATERING, ADDING FERTILIZERS AND LIME AND MOWING AT NO ADDITIONAL COST TO OWNER.
- COMMERCIAL FERTILIZER SHALL BE APPLIED AT THE RATE OF 25 POUNDS PER 1000 SQ. FT. OR AS RECOMMENDED BY THE TESTING AGENCY. COMMERCIAL FERTILIZER SHALL BE A COMPLETE FERTILIZER CONTAINING AT LEAST 50% OF THE NITROGEN OF WHICH IS DERIVED FROM NATURAL ORGANIC SOURCES OF UREAFORM. IT SHALL CONTAIN THE FOLLOWING PERCENTAGES BY WEIGHT: NITROGEN (N) 10%, PHOSPHORUS (P) 6%, POTASH (K) 4%. LIME SHALL BE AN APPROVED AGRICULTURAL LIMESTONE CONTAINING NOT LESS THAN 85% OF TOTAL CARBONATES. LIMESTONE SHALL BE GROUND TO SUCH FINENESS THAT 50% WILL PASS A 100 MESH SIEVE AND 90% WILL PASS THROUGH A 20 MESH SIEVE.
- LAWN AREAS TO BE SEED BY SOWING EVENLY WITH AN APPROVED MECHANICAL SEEDER AT THE RATE OF TEN POUNDS PER 1000 SQUARE FEET.
- CONTRACTOR RESPONSIBLE FOR WATERING, MOWING, AND RESEEDING OF LAWN BARE SPOTS UNTIL A UNIFORM, HEALTHY STAND OF GRASS IS ESTABLISHED AND ACCEPTED.

- NOTES:**
- TREES SHALL BEAR SAME RELATIONSHIP TO FINISH GRADE AS IT BORE TO NURSERY OR FIELD. ROOT FLARE SHALL BE 2" ABOVE FINISH GRADE. REMOVE SOIL FROM TRUNK FLARE OF TREE TO DETERMINE ACTUAL TOP OF ROOTBALL AREA.
 - INSTALL THREE GUYS PER TREE, EQUALLY SPACED AROUND BALL.
 - ATTACH GUYS AT 2/3 HEIGHT OF TREE.
 - BACKFILL WITH PLANTING MIX. PLANT MIX TO BE: 50% NATIVE TOPSOIL, 20% COMPOST (LEAVES & ORGANIC MATERIAL, NO ASH) 20% PEAT MOSS, 10% SAND.
 - ADD MYCORRHIZA SOIL ADDITIVES AND SLOW RELEASE FERTILIZER WHEN PLANT HOLES ARE 50% FILLED AND WATER THOROUGHLY AT COMPLETION.

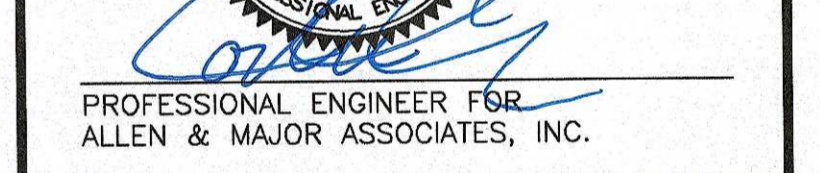
NEW ENGLAND WETLAND PLANTS
820 WEST STREET, AMHERST, MA 01002
PHONE: 413-548-8000 FAX 413-549-4000
EMAIL: INFO@NEWP.COM WEB ADDRESS: WWW.NEWP.COM

NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DRY SITES

BOTANICAL NAME	COMMON NAME	WETLAND INDICATOR
ELYMUS CANADENSIS	CANADA WILD RYE	FACU+
FESTUCA RUBRA	RED FESCUE	FACU
LOLIUM MULTIFLORUM	ANNUAL RYEGRASS	FACU
LOLIUM PERENNE	PERENNIAL RYEGRASS	FAC
PANICUM VIRGATUM	SWITCH GRASS	FAC
SORGHASTRUM NUTANS	INDIAN GRASS	UPL
SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	FACU
AGROSTIS PERENNANS	UPLAND BENTGRASS	FACU

THE NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DRY SITES PROVIDES AN APPROPRIATE SELECTION OF NATIVE AND NATURALIZED GRASSES TO ENSURE THAT DRY AND RECENTLY DISTURBED SITES WILL BE QUICKLY REVEGETATED AND THE SOIL SURFACE STABILIZED. IT IS AN APPROPRIATE SEED MIX FOR ROAD CUTS, PIPELINES, STEEPER SLOPES, AND AREAS REQUIRING QUICK COVER DURING THE ECOLOGICAL RESTORATION PROCESS. THE MIX MAY BE APPLIED BY HYDRO-SEEDING, BY MECHANICAL SPREADER, OR ON SMALL SITES IT CAN BE SPREAD BY HAND. LIGHTLY RAKE, OR ROLL TO ENSURE PROPER SOIL-SEED CONTACT. BEST RESULTS ARE OBTAINED WITH A SPRING OR LATE SUMMER SEEDING. LATE SPRING THROUGH MID-SUMMER SEEDING WILL BENEFIT FROM A LIGHT MULCHING OF WEED-FREE STRAW TO CONSERVE MOISTURE. IF CONDITIONS ARE DRIER THAN USUAL, WATERING WILL BE REQUIRED. FERTILIZATION IS NOT REQUIRED UNLESS THE SOILS ARE PARTICULARLY INFERTILE. PREPARATION OF A CLEAN WEED FREE SEED BED IS NECESSARY FOR OPTIMAL RESULTS.

PRICE PER LB \$15.00 MIN. QUANTITY 5 LBS. TOTAL \$75.00
APPLY: 35 LBS/ACRE :1250 SQ FT/LB



NO.	DATE	DESCRIPTION
5	05-18-20	REVISED PER CITY COMMENTS
4	02-20-20	VARIOUS REVISIONS
3	02-03-20	VARIOUS REVISIONS
2	01-31-20	RESUBMITTED FOR LOCAL APPROVAL
1	12-20-19	ISSUED FOR LOCAL APPROVAL

APPLICANT/OWNER:
WP MARLBOROUGH MA OWNER, LLC
9 WEST BROAD STREET, SUITE 800
STAMFORD, CT 06902

PROJECT:
MULTI-FAMILY DEVELOPMENT
339 BOSTON POST ROAD EAST
MARLBOROUGH, MA

PROJECT NO.	2658-01	DATE:	12-20-2019
SCALE:	NTS	DWG. NAME:	C2658-01
DESIGNED BY:	SJY/DMR	CHECKED BY:	CMQ

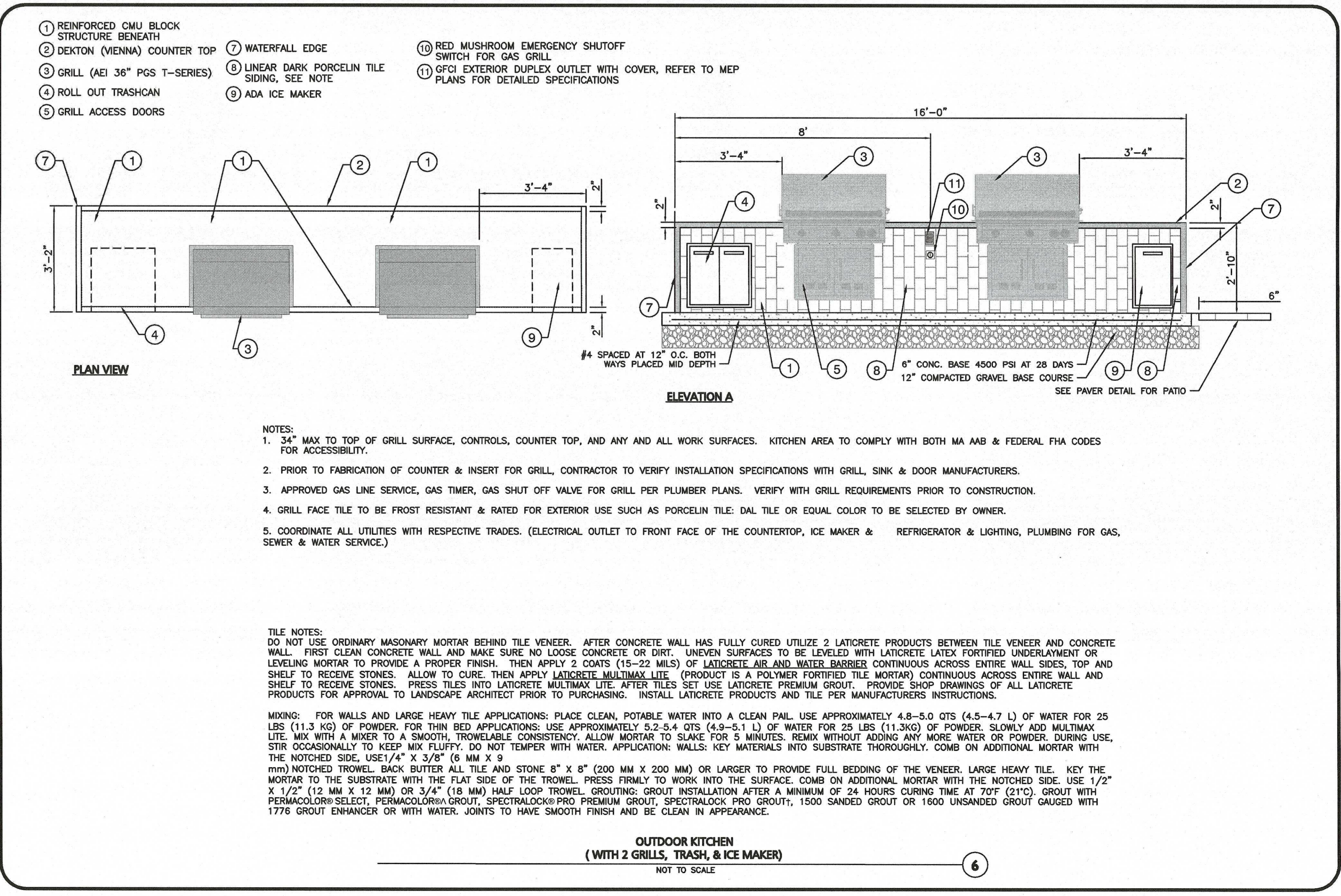
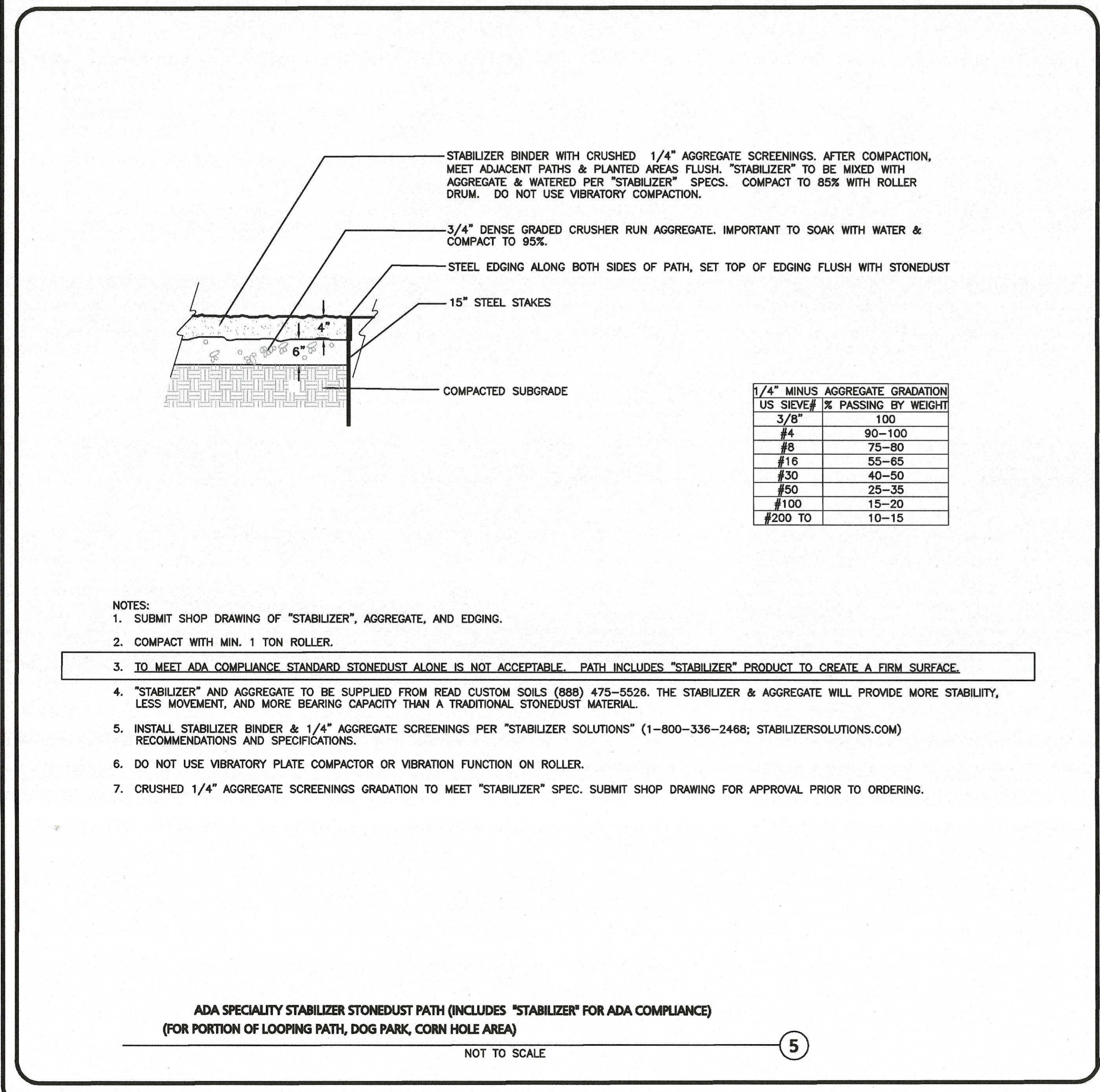
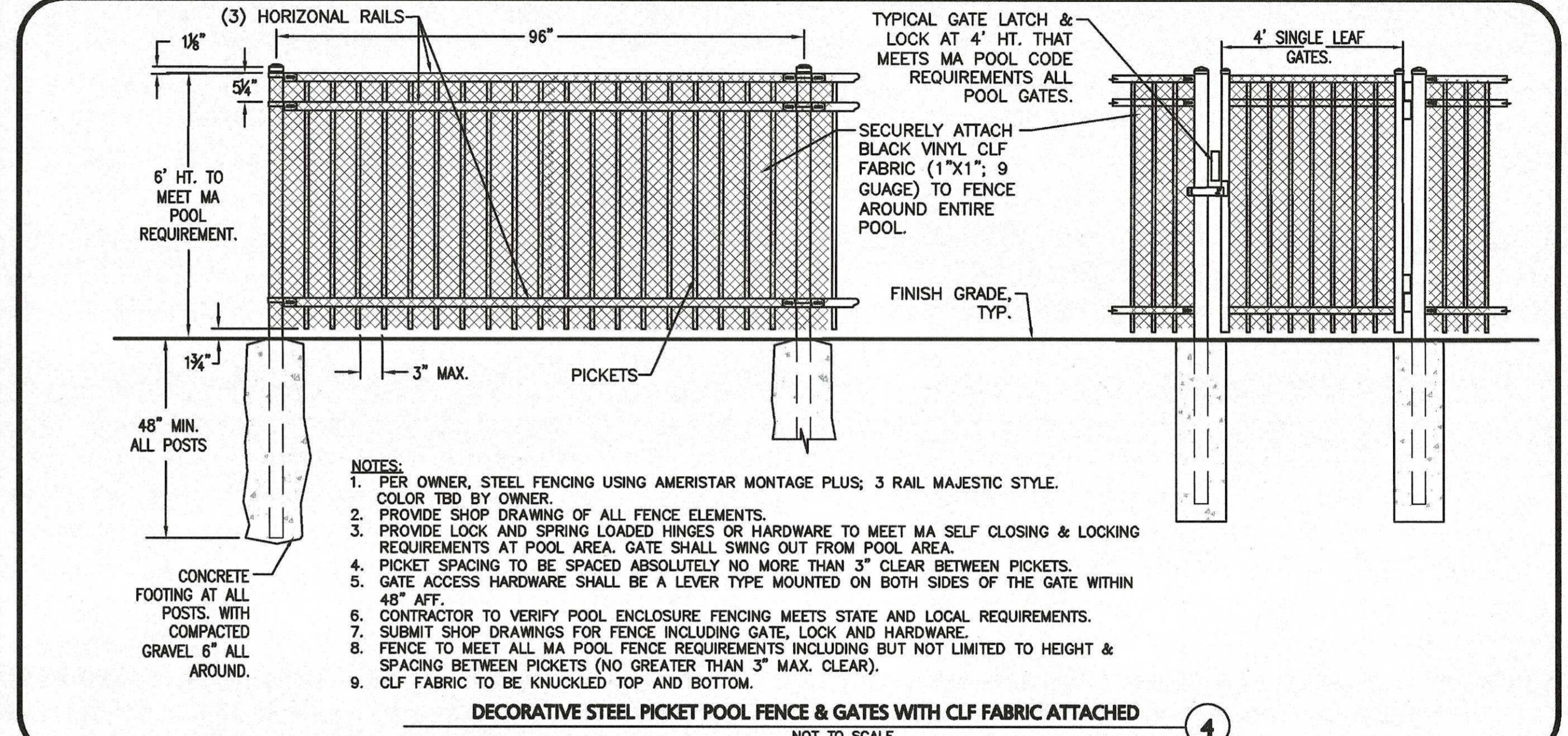
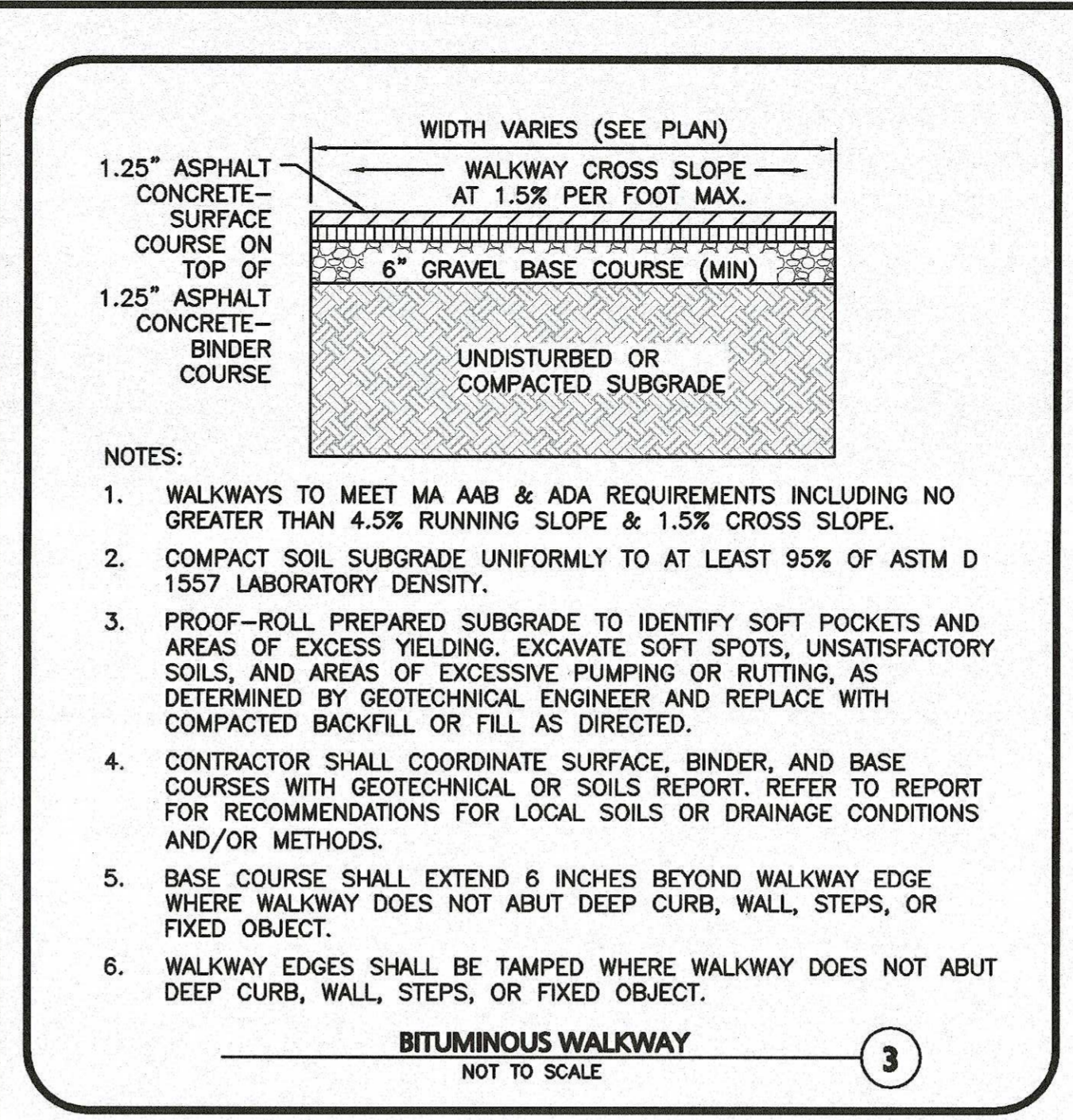
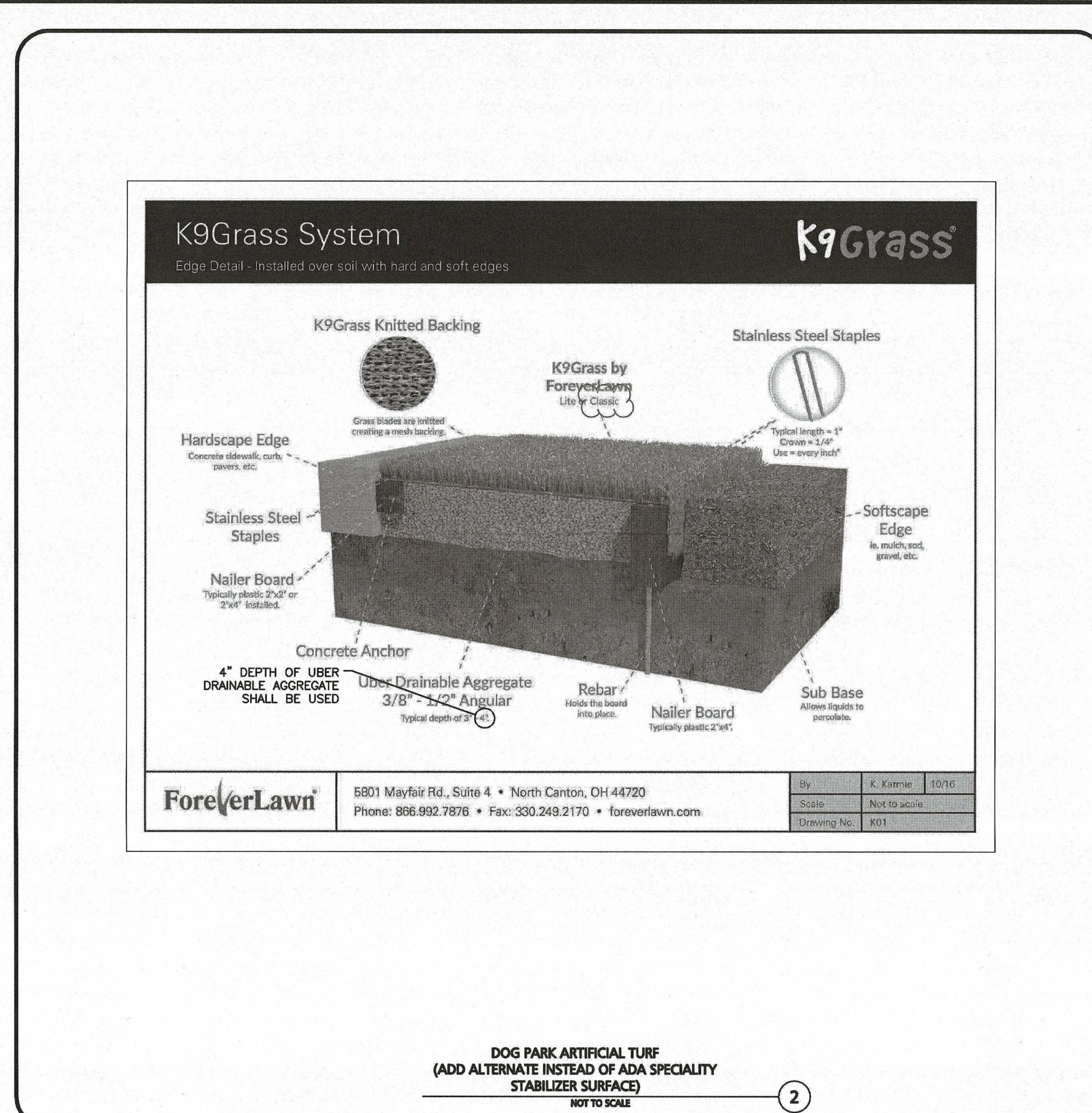
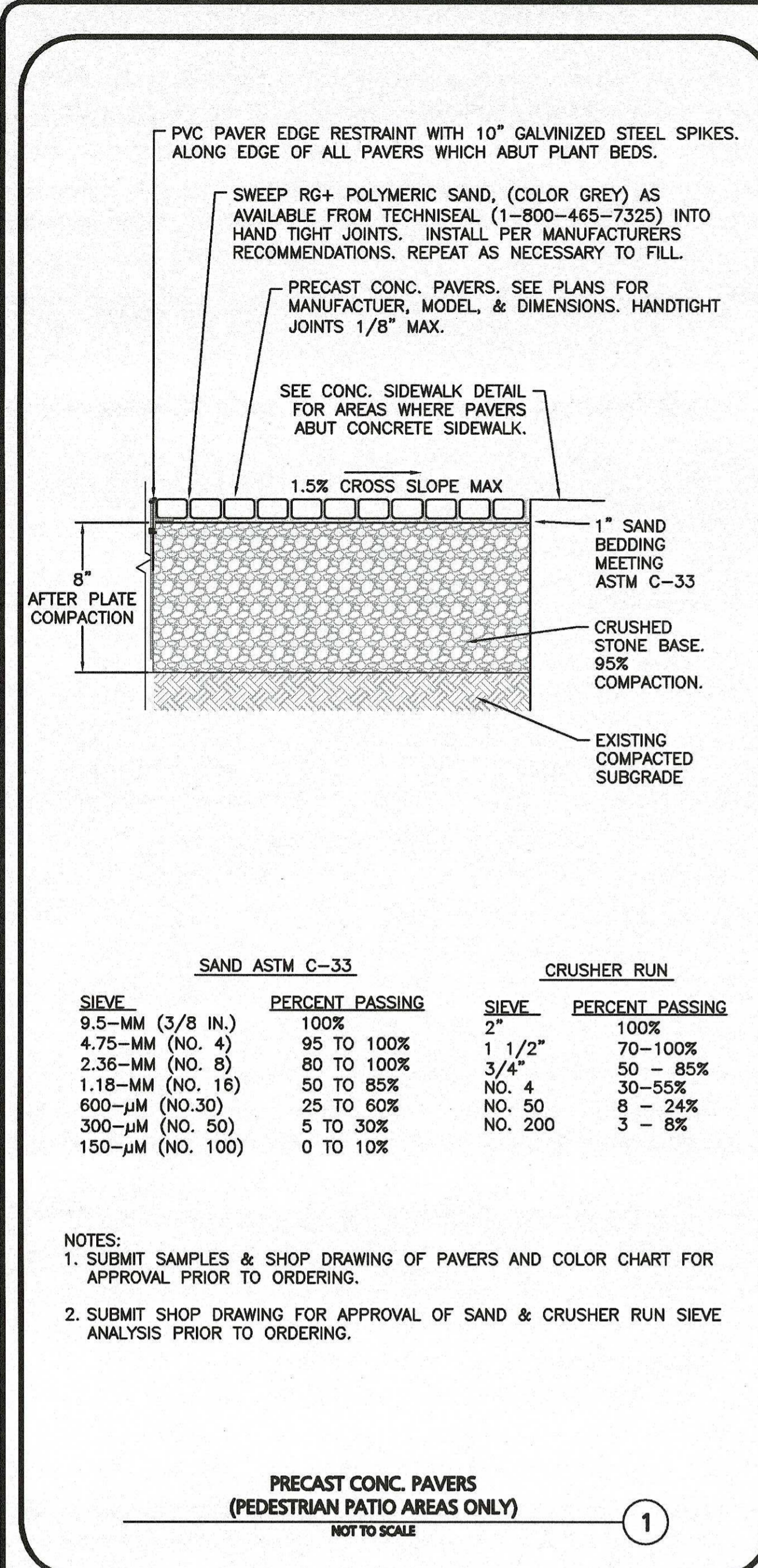
PREPARED BY:

ALLEN & MAJOR ASSOCIATES, INC.
civil & structural engineering • land surveying
environmental consulting • landscape architecture
www.allenmajor.com
100 COMMERCIAL WAY, SUITE 2.5
WOBURN MA 01801
TEL: (781) 955-8889
FAX: (781) 955-8898
WOBURN, MA • LAKEVILLE, MA • MANCHESTER, NH

THIS DRAWING HAS BEEN PREPARED IN ELECTRONIC FORMAT. CLIENT/CUSTOMER REPRESENTATIVE OR CONSULTANT MAY PROVIDE COPIES OF DRAWINGS AND SPECIFICATIONS ON MAGNETIC MEDIA FOR HIS/HER INFORMATION AND USE FOR SPECIFIC APPLICATION TO THIS PROJECT. DUE TO THE POTENTIAL THAT THE MAGNETIC INFORMATION MAY BE MODIFIED UNINTENTIONALLY OR OTHERWISE, ALLEN & MAJOR ASSOCIATES, INC. MAY REMOVE ALL INDICATION OF THE DOCUMENT'S AUTHORSHIP ON THE MAGNETIC MEDIA. PRINTED REPRESENTATIONS OF THE DRAWINGS AND SPECIFICATIONS ISSUED SHALL BE THE ONLY RECORD COPIES OF ALLEN & MAJOR ASSOCIATES, INC.'S WORK PRODUCT.

DRAWING TITLE: **LANDSCAPE DETAILS** SHEET NO. **L-501**

Copyright © 2019 Allen & Major Associates, Inc. All Rights Reserved.



5.18.20
CARLTON M. QUINN
CIVIL ENGINEER
NO. 45923
PROFESSIONAL ENGINEER
STATE OF MASSACHUSETTS

PROFESSIONAL ENGINEER FOR ARCHITECTURE
ALLEN & MAJOR ASSOCIATES, INC.

REV	DATE	DESCRIPTION
5	05-18-20	REVISED PER CITY COMMENTS
4	02-20-20	VARIOUS REVISIONS
3	02-03-20	VARIOUS REVISIONS
2	01-31-20	RESUBMITTED FOR LOCAL APPROVAL
1	12-20-19	ISSUED FOR LOCAL APPROVAL

APPLICANT/OWNER:
WP MARLBOROUGH MA OWNER, LLC
9 WEST BROAD STREET, SUITE 800
STAMFORD, CT 06902

PROJECT:
MULTI-FAMILY DEVELOPMENT
339 BOSTON POST ROAD EAST
MARLBOROUGH, MA

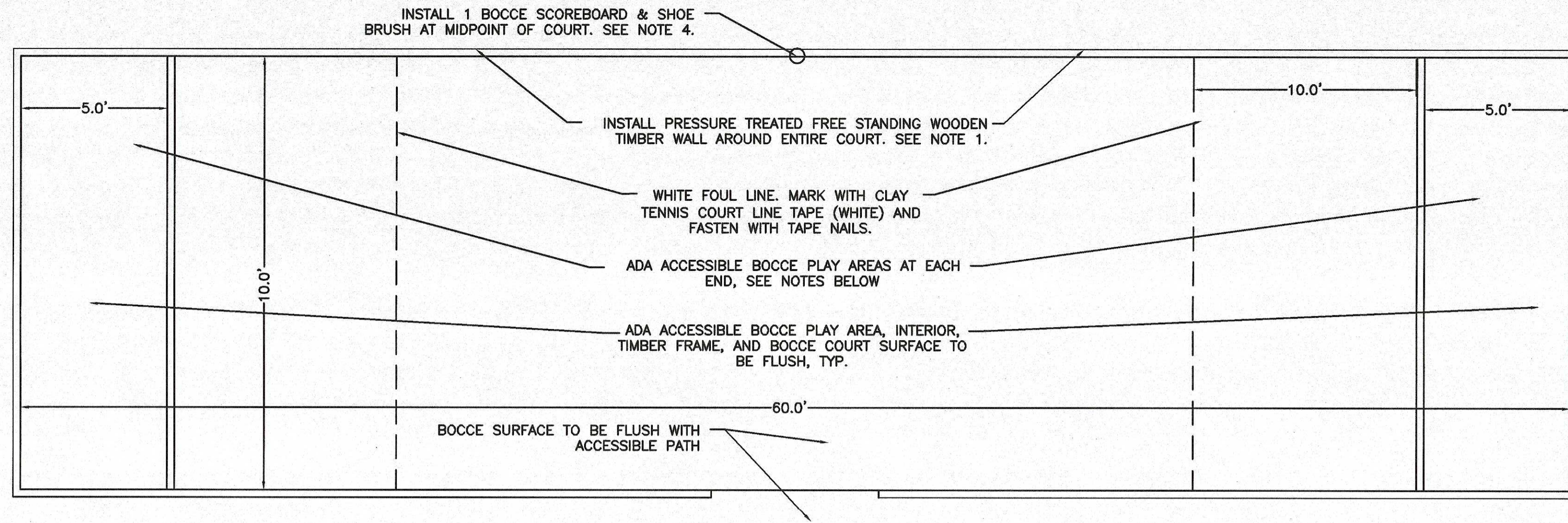
PROJECT NO. 2658-01 DATE: 12-20-2019
SCALE: NTS DWG. NAME: C-2658-01
DESIGNED BY: SJL/DMR CHECKED BY: CMQ

PREPARED BY:
ALLEN & MAJOR ASSOCIATES, INC.
civil & structural engineering • land surveying
environmental consulting • landscape architecture
www.allenmajor.com
100 COMMERCE WAY, SUITE 5
WOUBURN MA 01801
TEL: (781) 955-8880
FAX: (781) 955-8996
WOUBURN, MA • LAKEVILLE, MA • MANCHESTER, NH

THIS DRAWING HAS BEEN PREPARED IN ELECTRONIC FORMAT.
CLIENT/CUSTOMER REPRESENTATIVE OR CONSULTANT MAY BE PROVIDED COPIES OF DRAWINGS AND SPECIFICATIONS ON MAGNETIC MEDIA FOR HIS/HER INFORMATION AND USE FOR SPECIFIC APPLICATION TO THIS PROJECT. DUE TO THE POTENTIAL THAT THE MAGNETIC INFORMATION MAY BE MODIFIED UNINTENTIONALLY OR OTHERWISE, ALLEN & MAJOR ASSOCIATES, INC. MAY REMOVE ALL INDICATION OF THE DOCUMENT'S AUTHORSHIP ON THE MAGNETIC MEDIA. PRINTED REPRESENTATIONS OF THE DRAWINGS AND SPECIFICATIONS ISSUED SHALL BE THE ONLY RECORD COPIES OF ALLEN & MAJOR ASSOCIATES, INC.'S WORK PRODUCT.

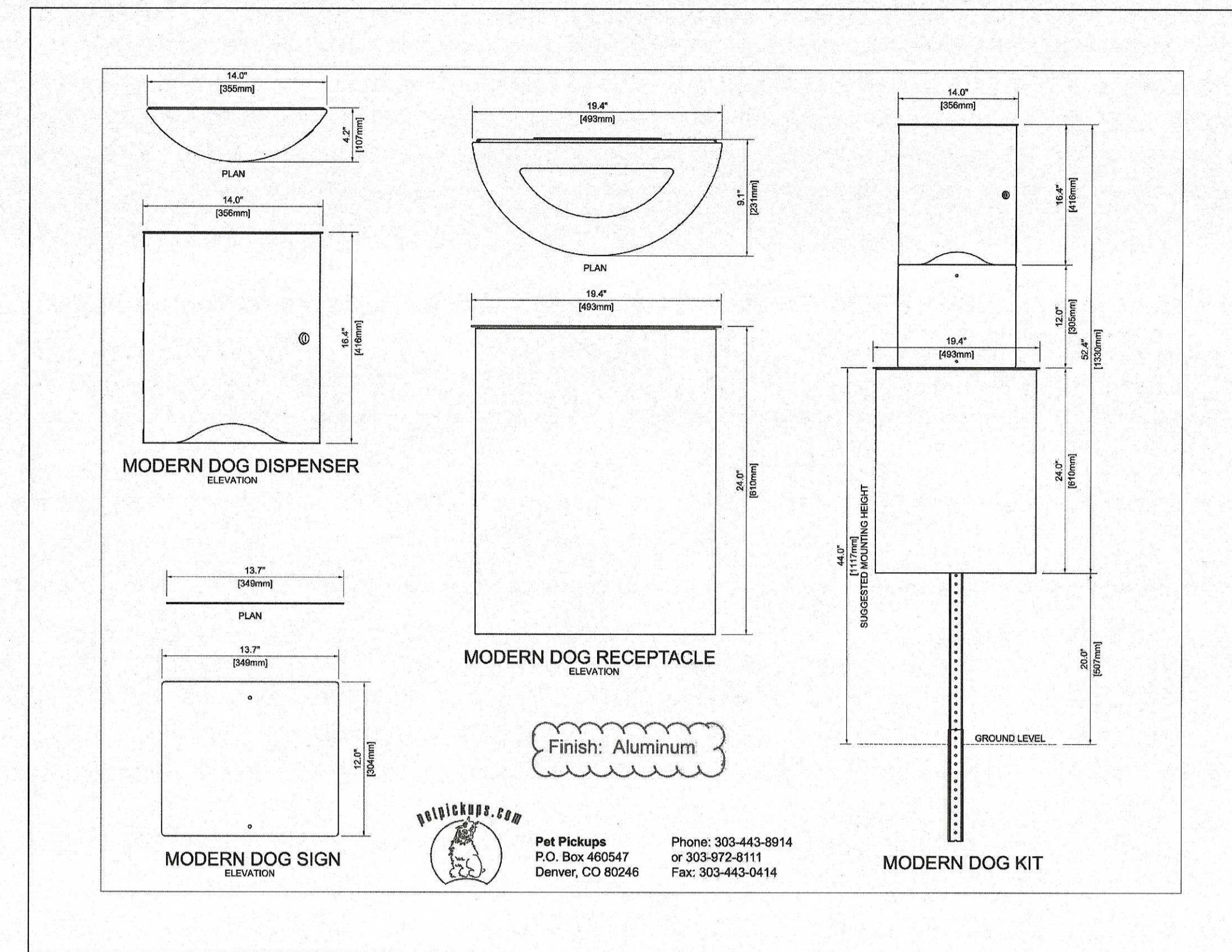
DRAWING TITLE: HARDSCAPE DETAILS SHEET NO. L-502
Copyright © 2019 Allen & Major Associates, Inc. All Rights Reserved.

N:\PROJECTS\2658-01\DWG\DRAWINGS\CURRENT\SITE PLANS\C-2658-01_HARDSCAPE_MATERIALS_PLANNING



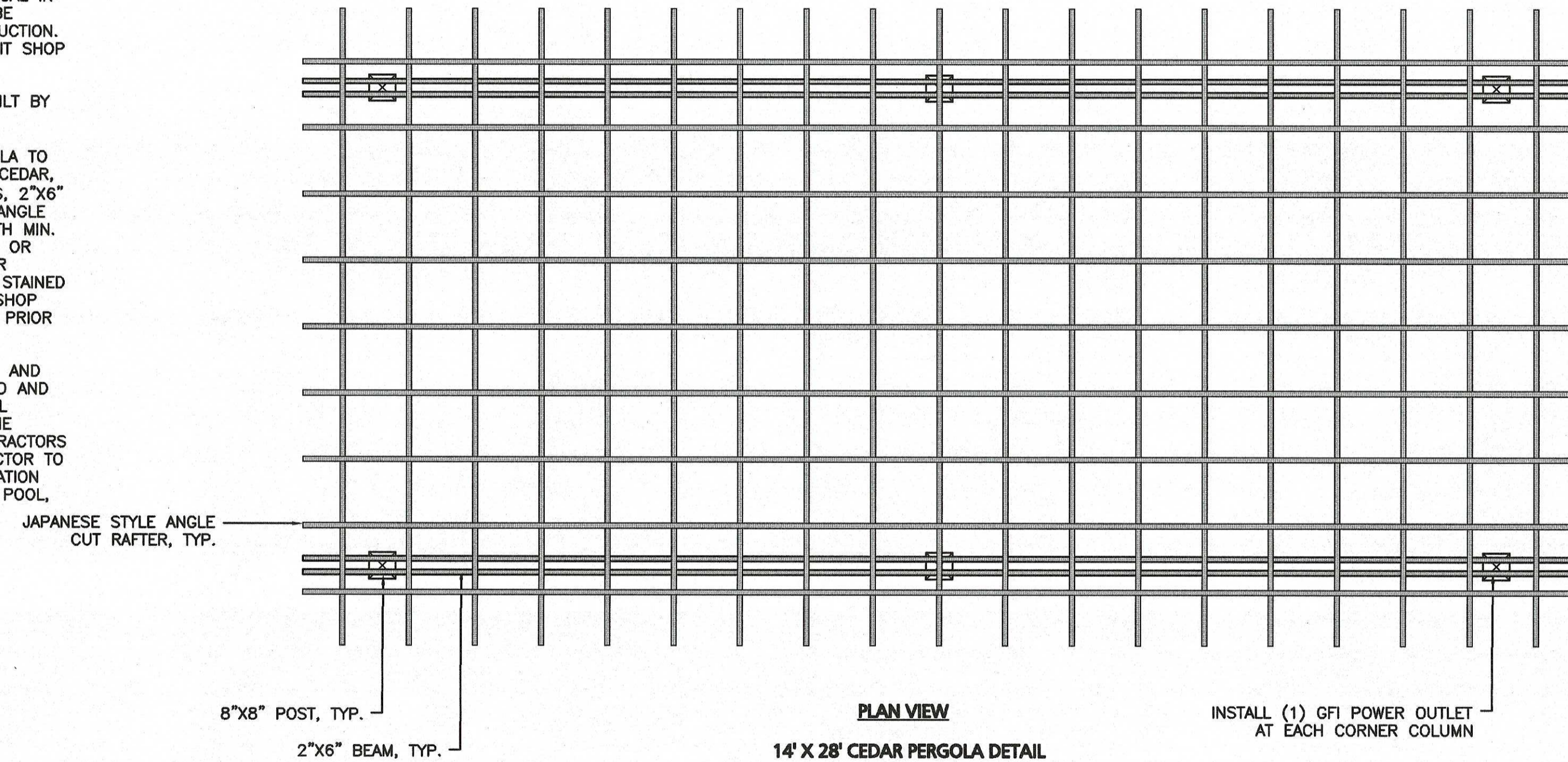
- NOTES:
- INSTALL 6" X 6" X 8' PRESSURE TREATED FREE-STANDING WOODEN TIMBER WALL ALONG ENTIRE PERIMETER OF BOCCO COURT. INSTALL TIMBERS ON A 6" GRAVEL BASE AROUND ENTIRE PERIMETER OF BOCCO COURT. UNIFY THE STRUCTURE AND PROVIDE STABILITY WITH #4 REBAR & TIMBER WALL SCREWS ANCHORED THRU ALL LEVELS OF THE TIMBER WALL. WOODEN TIMBERS TO BE INSTALLED WITH 12" REVEAL ON INSIDE AND OUTSIDE OF COURT AND BE BURIED A MIN. OF 12" DEEP BELOW FINISH GRADE OF BOCCO COURT.
 - FREE-STANDING WOODEN TIMBER WALL AROUND BOCCO COURT TO HAVE 1" CORE DRAINAGE HOLES EVERY 25'.
 - SEE BOCCO COURT SURFACE DETAIL COURT SURFACE TO BE FLAT. THE SURFACE IS TO NOT VARY BY MORE THAN 1/8" PER 10' AS MEASURED IN ANY DIRECTION. DURING INSTALLATION, WATER SURFACE AND COMPACT WITH 400 TO 1,200 LB ROLLER UNTIL FIRMNESS IS ACHIEVED.
 - BOCCO BALLS & COURT MAINTENANCE EQUIPMENT INCLUDING BUT NOT LIMITED TO: BOCCO BALLS, HAND ROLLERS, SCARIFIER RAKE, BROOM, TO MAINTAIN COURTS ARE TO BE PROVIDED BY OWNER.
 - INSTALL 1 FIXED BOCCO SCOREBOARD ON 48" HT. WOODEN POST. SCOREBOARD TO BE UV RESISTANT AND WEATHERPROOF. ALSO PROVIDE 1 EXTRA SET OF EACH COLORED ROUNDED SCORE INDICATORS FOR BOARD. SCOREBOARD TO BE FROM "LOVE ONE" OR EQUAL; 404-804-8816. WWW.TENNISSCOREBOARDS.COM. INSTALL 1 SHOE BRUSH ON WOODEN TIMBERS. SHOE BRUSH FROM WWW.BOCCEMOM.CO; 1-360-224-2909 OR EQUAL.
 - ADA ACCESSIBLE BOCCO PLAY SURFACE SHALL BE POURED IN PLACE RUBBERIZED RESILIENT PLAY SURFACE ON TOP OF BITUMINOUS WALK AND GRAVEL SUB BASE (SEE TYP. BITUMINOUS WALK DETAIL).
 - RUBBERIZED SURFACE TO CONSIST OF 2" DEPTH OF RECYCLED STYRENE BUTADIENE RUBBER AND ALIPHATIC URETHANE. SUBMIT SHOP DRAWING FOR APPROVAL ON MATERIAL AND COLOR.
 - ACCESSIBLE BOCCO PLAY SURFACE SHALL BE SEPARATED FROM BOCCO PLAY SURFACE WITH FLUSH 6" WIDE INTERIOR TIMBER FRAME.
 - ADA ACCESSIBLE BOCCO PLAY SURFACE, TIMBER FRAME AND BOCCO COURT CLAY SURFACE TO BE FLUSH.

BOCCO COURT
NOT TO SCALE

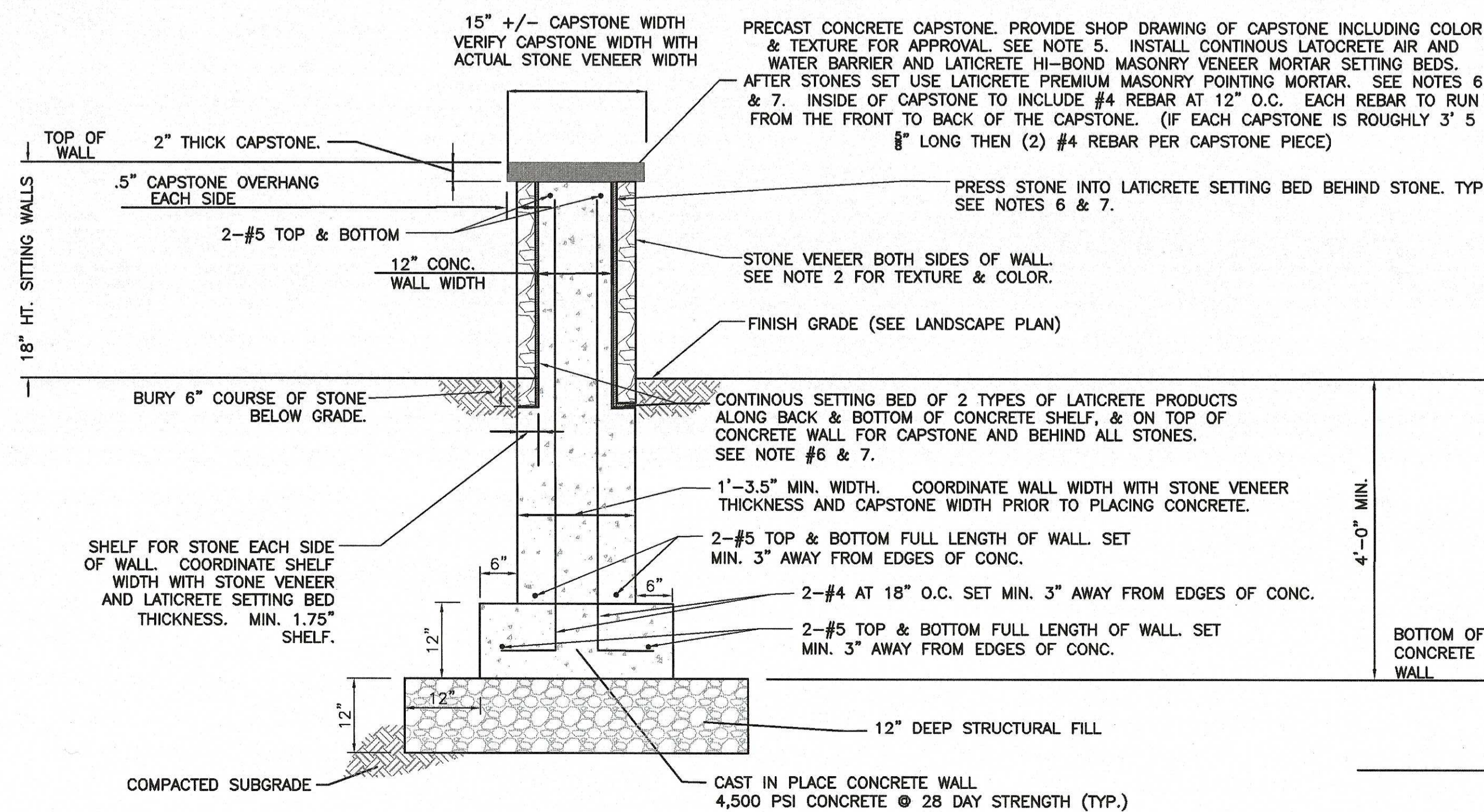


DOG WASTE RECEPTACLE & BAG DISPENSER STAND
NOT TO SCALE

- NOTES:
- THIS DETAIL IS PROTOTYPICAL IN NATURE AND IS NOT TO BE CONSIDERED FOR CONSTRUCTION. CONTRACTOR SHALL SUBMIT SHOP DRAWING.
 - PERGOLA DESIGNED & BUILT BY BALDWIN PERGOLAS. BALDWINPERGOLAS.COM (MIDDLETOWN, CT). PERGOLA TO BE WESTERN RED CLEAR CEDAR, 10 FT. TALL, 8"X8" POSTS, 2"X6" BEAMS, JAPANESE STYLE ANGLE CUT RAFTERS, 4 FT. DEPTH MIN. CONC. FOOTINGS, STAINED OR LEFT NATURAL CEDAR. FOR PRICING PURPOSES ONLY STAINED WITH 2 COATS. PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO ORDERING. PERGOLA STRUCTURE INCLUDING FASTENERS, WOOD SIZING, AND FOOTINGS TO BE REVIEWED AND APPROVED BY STRUCTURAL ENGINEER LICENSED IN THE STATE OF MA & AT CONTRACTORS COST. PERGOLA CONTRACTOR TO COORD. PERGOLA INSTALLATION WITH ADJACENT LIGHTING, POOL, SIDEWALK, AND FOOTING CONTRACTORS.

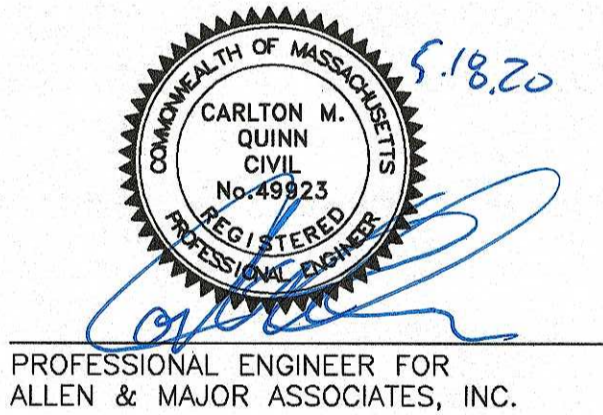


PLAN VIEW
14' X 28' CEDAR PERGOLA DETAIL
(DESIGNED & BUILT BY BALDWIN PERGOLAS)
SCALE 1" = 2'-0"



STONE VENEER WALL
NOT TO SCALE

- NOTES:
- INSTALL STONE VENEER PER MANUFACTURERS RECOMMENDATIONS FOR EXTERIOR CONCRETE WALL USE IN MASSACHUSETTS.
 - STONE VENEER TO MATCH ARCHITECTURE ELDORADO STONE (HTTPS://WWW.ELDORADOSTONE.COM/) IN EARTH TONES OR EQUAL. PROVIDE OWNER WITH SAMPLES OF EACH STYLE IN A MOCK UP AND SHOP DRAWINGS FOR APPROVAL FROM OWNER PRIOR TO ORDERING.
 - WALLS INCLUDING FOOTING TO BE REVIEWED AS A SHOP DRAWING, AND APPROVED BY STRUCTURAL ENGINEER LICENSED IN THE STATE OF MASSACHUSETTS AND AT CONTRACTOR COST. CONTRACTOR TO INCORPORATE ANY NECESSARY REVISIONS.
 - PRECAST CONCRETE CAPSTONE TO BE FROM NORTHERN DESIGN PRECAST, INC. LOCATED IN LOUDON, NH. 603-783-8989 OR APPROVED EQUAL. PROVIDE OWNER WITH STAMPLES OF EACH STYLE AND SHOP DRAWINGS FOR APPROVAL PRIOR TO ORDERING.
 - DO NOT USE ORDINARY MASONRY MORTAR BEHIND STONE VENEER. AFTER CONCRETE WALL HAS FULLY CURED UTILIZE 2 LATICRETE PRODUCTS BETWEEN STONE VENEER AND CONCRETE WALL. FIRST CLEAN CONCRETE WALL AND MAKE SURE NO LOOSE CONCRETE OR DIRT, THEN APPLY 2 COATS (15-22 MILS) OF LATICRETE AIR AND WATER BARRIER CONTINUOUS ACROSS ENTIRE WALL SIDES, TOP AND SHELF TO RECEIVE STONES. ALLOW TO CURE. THEN APPLY LATICRETE HI-BOND MASONRY VENEER MORTAR (PRODUCT IS A POLYMER FORTIFIED MORTAR) CONTINUOUS ACROSS ENTIRE WALL AND SHELF TO RECEIVE STONES. PRESS STONES VENEER INTO MORTAR. AFTER STONES SET USE LATICRETE PREMIUM MASONRY POINTING MORTAR. PROVIDE SHOP DRAWINGS OF ALL LATICRETE PRODUCTS FOR APPROVAL TO LANDSCAPE ARCHITECT PRIOR TO PURCHASING. INSTALL LATICRETE PRODUCTS AND STONE VENEER PER MANUFACTURERS INSTRUCTIONS.
 - PRESS STONE INTO LATICRETE SETTING BED BEHIND STONE. SETTING BED TO BE 3/4" DEPTH BEFORE COMPRESSION. EACH STONE TO BE HAND TIGHT JOINTS AND NO MORE THAN 1/4" BETWEEN STONES. STAGGER ALL JOINTS. CREATE RANDOM APPEARANCE OF VENEER WITH VARYING STONE SIZES. REMOVE EXCESS MORTAR FROM JOINTS. AFTER STONES ARE SET, APPLY LATICRETE PREMIUM MASONRY POINTING MORTAR TO JOINTS. JOINTS TO HAVE SMOOTH FINISH AND BE CLEAN IN APPEARANCE.



PROFESSIONAL ENGINEER FOR
ALLEN & MAJOR ASSOCIATES, INC.

REV	DATE	DESCRIPTION
5	05-18-20	REVISED PER CITY COMMENTS
4	02-20-20	VARIOUS REVISIONS
3	02-03-20	VARIOUS REVISIONS
2	01-31-20	RESUBMITTED FOR LOCAL APPROVAL
1	12-20-19	ISSUED FOR LOCAL APPROVAL

APPLICANT/OWNER:
WP MARLBOROUGH MA OWNER, LLC
9 WEST BROAD STREET, SUITE 800
STAMFORD, CT 06902

PROJECT:
MULTI-FAMILY DEVELOPMENT
339 BOSTON POST ROAD EAST
MARLBOROUGH, MA

PROJECT NO.	2658-01	DATE:	12-20-2019
SCALE:	NTS	DWG. NAME:	C-2658-01
DESIGNED BY:	SJL/DMR	CHECKED BY:	CMQ

ALLEN & MAJOR ASSOCIATES, INC.
civil & structural engineering • landscape architecture
environmental consulting • landscape architecture
www.allenmajor.com
100 COMMERCE WAY, SUITE 8
WOUBURN MA 01801
TEL: (781) 935-6889
FAX: (781) 935-2996
WOUBURN, MA • LAKEVILLE, MA • MANCHESTER, NH

THIS DRAWING HAS BEEN PREPARED IN ELECTRONIC FORMAT. CLIENT/CUSTOMER REPRESENTATIVE OR CONSULTANT MAY BE PROVIDED COPIES OF DRAWINGS AND SPECIFICATIONS ON MAGNETIC MEDIA FOR HIS/HER INFORMATION AND USE FOR SPECIFIC APPLICATION TO THIS PROJECT. DUE TO THE POTENTIAL THAT THE MAGNETIC INFORMATION MAY BE MODIFIED UNINTENTIONALLY OR OTHERWISE, ALLEN & MAJOR ASSOCIATES, INC. MAY REMOVE ALL INDICATION OF THE DOCUMENT'S AUTHORSHIP ON THE MAGNETIC MEDIA. PRINTED REPRESENTATIONS OF THE DRAWINGS AND SPECIFICATIONS ISSUED SHALL BE THE ONLY RECORD COPIES OF ALLEN & MAJOR ASSOCIATES, INC.'S WORK PRODUCT.

DRAWING TITLE:	SHEET NO.
HARDSCAPE DETAILS	L-503