

ABBREVIATIONS

ABAN	ABANDON
ADJ	ADJUST
AD	AREA DRAIN
B	BORING
BC	BOTTOM OF CURB
BIT	BITUMINOUS
BCB	BITUMINOUS CONCRETE BERM
BM	BENCH MARK
BVW	BORDERING VEGETATED WETLAND
BOR	BOTTOM OF RAMP
CATV	CABLE TELEVISION
CB	CATCH BASIN
CF	CUBIC FEET
CI	CAST IRON (PIPE)
CLDI	CEMENT LINED DUCTILE IRON (PIPE)
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
CONC	CONCRETE
CPP	CORRUGATED POLYETHYLENE PIPE
CUL	CULVERT
CY	CUBIC YARD
DB	DISTRIBUTION BOX
DBL	DOUBLE
DET	DETENTION
DICL	DUCTILE IRON (PIPE)
DIA	DIAMETER
DMH	DRAIN MANHOLE
EHH	ELECTRIC HANDHOLE
EL	ELEVATION
ELEC	ELECTRIC
EMH	ELECTRIC MANHOLE
EOP	EDGE OF PAVEMENT
EOR	EDGE OF ROAD
EOW	EDGE OF WETLANDS
EXIST	EXISTING
FCC	FLUSH CONCRETE CURB
FES	FLARED END SECTION
FGC	FLUSH GRANITE CURB
FFE	FINISH FLOOR ELEVATION
FT	FOOT/FEET
GG	GAS GATE
GRAN	GRANITE
GTC	GRANITE TRANSITION CURB
GV	GATE VALVE
QV&B	GATE VALVE & BOX
HW	HEADWALL
HYD	HYDRANT
IN	INCHES
INV, I	INVERT
L	LENGTH
LP	LIGHT POLE
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MW	MONITORING WELL
N	NORTH
NTS	NOT TO SCALE
OHW	OVERHEAD WIRE
OW	OBSERVATION WELL
PCC	PRECAST CONCRETE CURB
PL	PROPERTY LINE
PROP, P	PROPOSED
PVC	POLYVINYL CHLORIDE (PIPE)
R&R	REMOVE & RESET/REPLACE
R&S	REMOVE & STACK
ADS	REINFORCED CONCRETE PIPE
ROW	RIGHT OF WAY
RR	RAILROAD
SF	SQUARE FEET
SL	STOP LINE
SMH	SEWER MANHOLE
SW	SIDEWALK
SGC	SLOPED GRANITE CURB
TB	TEST BORING
TC	TOP OF CURB
TOR	TOP OF RAMP
TMH	TELEPHONE MANHOLE
TOW	TOP OF WALL
TP	TEST PIT
TYP	TYPICAL
UP	UTILITY POLE
YCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
VGC	VERTICAL GRANITE CURB
WD	WOOD
WG	WATER GATE
WMH	WATER MANHOLE
WSO	WATER SHUTOFF

GENERAL NOTES

1. APPLICABLE WORK AND MATERIALS SHALL COMPLY WITH ALL TOWN OF BELMONT REGULATIONS AND CODES AND O.S.H.A. STANDARDS. ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE LAND SUBDIVISION REGULATIONS OF THE TOWN OF BELMONT PLANNING BOARD, AND THE PUBLIC WORKS DEPARTMENT SPECIFICATIONS.
2. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND STRUCTURES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY, AND "DIGSAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATION OF UTILITIES, AND THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION TAKEN BEFORE PROCEEDING WITH THE WORK.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND BENCH MARKS NECESSARY FOR THE WORK.
4. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ANY PERMITS AND/OR CONNECTION FEES REQUIRED TO CARRY OUT THE WORK INCLUDING BUT NOT LIMITED TO DEMOLITION.
5. DISPOSAL OF ALL DEMOLISHED MATERIALS IS THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL MUNICIPAL REQUIREMENTS.
6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLAN. THE CONTRACTOR SHALL PROTECT AND/OR CAP OFF ALL EXISTING ON-SITE UTILITY SERVICES DESIGNATED ON THESE DRAWINGS. SERVICES SHALL BE CAPPED OFF WHERE SAME ENTER THE PERIMETER OF THE PROPERTY LINE.
7. THE AREA OR AREAS OF ENTRANCE AND EXIT TO AND FROM THE SITE SHALL BE CLEARED OF ALL VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL AS DETERMINED BY THE ENGINEER OR OWNER'S REPRESENTATIVE.
8. PROPOSED UTILITIES ARE SHOWN IN SCHEMATIC ONLY. EXACT LOCATIONS SHALL BE DETERMINED TO ALLOW FOR THE MOST ECONOMICAL INSTALLATION.
9. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULES, SLOPE PAVING, SIDEWALKS, EXIT PORCHES, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
10. ALL DISTURBED AREAS ARE TO RECEIVE FOUR INCHES OF TOPSOIL, SEED, MULCH AND WATER UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED.
11. ALL ISLANDS WITH CURB & GUTTER SHALL BE LANDSCAPED. ALL REMAINING ISLANDS ARE TO BE STRIPED AS SHOWN.
12. CURB RADII SHALL BE AS SHOWN ON THE PLAN, THOUGH TYPICALLY 10'-FT. AT CORNERS AND 2'-FT. ADJACENT TO PARKING STALLS.
13. ALL DIMENSIONS AND RADII ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
14. EXISTING STRUCTURES WITHIN CONSTRUCTION LIMITS ARE TO BE ABANDONED, REMOVED OR RELOCATED AS NECESSARY. ALL COSTS SHALL BE INCLUDED IN BASE BID.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH THE TOWN OF BELMONT'S GOVERNING AUTHORITY'S SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COSTS SHALL BE INCLUDED IN BASE BID.
16. REFER TO ARCHITECTURAL AND MECHANICAL PLANS FOR SEWER CONNECTIONS WITHIN 10' OF THE BUILDING PERIMETER.
17. THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO DETERMINE EXACT POINT OF SERVICE CONNECTION AT EXISTING UTILITY. REFER TO THE BUILDING ELECTRICAL AND PLUMBING DRAWINGS FOR UTILITY SERVICE ENTRANCE LOCATIONS, SIZES, AND CIRCUITING.
18. ALL ELEVATIONS SHOWN ARE IN REFERENCE TO THE BENCHMARK AND MUST BE VERIFIED BY THE GENERAL CONTRACTOR AT GROUND BREAK.
19. FINISH WALK AND CURB ELEVATIONS VARY FROM FLUSH TO A MAXIMUM OF 6" ABOVE FINISH GRADE.
20. PROPOSED GAS SERVICE LOCATIONS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL CONFIRM WITH THE GAS COMPANY THAT GAS LINE INSTALLATION SHALL BE BY THE LOCAL GAS COMPANY. THE CONTRACTOR SHALL GIVE THE GAS COMPANY ADVANCE NOTICE OF WHEN THE GAS LINE CAN BE INSTALLED.
21. PROPOSED ELECTRIC AND COMMUNICATIONS (TELEPHONE, CABLE, AND FIRE ALARM SYSTEMS) LOCATIONS ARE APPROXIMATE ONLY AND SHALL BE COORDINATED AND SCHEDULED WITH THE APPROPRIATE UTILITY COMPANY SERVICING THE PROJECT SITE.
22. CONTRACTOR IS RESPONSIBLE FOR DIGGING TEST HOLES AND VERIFYING ANY EXISTING UTILITY OR STRUCTURE PRIOR TO CONSTRUCTION. CONTRACTOR SHALL VERIFY THAT BASED ON EXACT LOCATION OF EXISTING UTILITIES, THERE ARE NO CONFLICTS BETWEEN THEM AND THE PROPOSED UTILITIES.

UTILITY NOTES

1. ALL FILL MATERIAL IS TO BE IN PLACE, AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
2. CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITY'S INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
3. SANITARY SEWER PIPE SHALL BE POLYVINYL CHLORIDE PIPE SDR35 AND SHALL CONFORM TO ASTM D 3034.
4. MINIMUM TRENCH WIDTH SHALL BE 2 FEET.
5. ALL WATER LINE PIPING, JOINTS AND JOINT RESTRAINT SYSTEMS AND APPURTENANCES SHALL BE DESIGNED, SPECIFIED AND INSTALLED IN ACCORDANCE WITH TOWN OF BELMONT PUBLIC WATER DEPARTMENT REQUIREMENTS.
6. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 5'-0" COVER ON ALL WATERLINES AND A MAXIMUM OF 8'-0" COVER.
7. WHERE SANITARY SEWERS CROSS WATER MAINS, THE SEWER SHALL BE LAID AT SUCH AN ELEVATION THAT THE CROWN OF THE SEWER IS AT LEAST 18 INCHES BELOW THE INVERT OF THE WATER MAIN. IF THE ELEVATION OF THE SEWER CAN NOT BE VARIED TO MEET THIS REQUIREMENT, THE WATER MAIN SHALL BE RELOCATED TO PROVIDED THIS SEPARATION OR CONSTRUCTED WITH MECHANICAL-JOINT PIPE FOR A DISTANCE OF TEN FEET ON EACH SIDE OF THE SEWER. ONE FULL LENGTH OF WATER MAIN SHALL BE CENTERED OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. WHENEVER IT IS IMPOSSIBLE TO OBTAIN VERTICAL SEPARATION AS STIPULATED ABOVE, BOTH THE WATER MAIN AND THE SANITARY SEWER SHALL BE ENCASED IN CONCRETE FOR A MINIMUM DISTANCE OF TEN FEET FROM THE CROSSING POINT OF THE OTHER PIPE AS MEASURED NORMALLY FROM ALL POINTS ALONG THE PIPE TO MEET THE REQUIREMENTS OF ANSI A21.10 OR ANSI 21.11 (AWWA C-151) (CLASS 50).
8. UNDERGROUND UTILITY LINES SHALL BE INSTALLED, INSPECTED AND APPROVED BY THE RESPECTIVE INSPECTING UTILITY AUTHORITY PRIOR TO BACKFILLING.
9. TOPS OF EXISTING MANHOLES SHALL BE RAISED AS NECESSARY TO BE FLUSH WITH PROPOSED PAVEMENT ELEVATIONS, AND MANHOLES NOT IN PAVEMENT TO BE ONE FOOT ABOVE FINISHED GROUND ELEVATIONS WITH WATER TIGHT LIDS.
10. ALL CONCRETE FOR ENCASEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH OF 3000 P.S.I.
11. DRAWINGS DO NOT NECESSARILY SHOW ALL EXISTING UTILITIES.
12. EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
13. REFER TO INTERIOR PLUMBING AND MECHANICAL DRAWINGS FOR TIE-IN OF ALL UTILITIES.
14. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE SPECIFICATIONS OF THE TOWN AND APPLICABLE UTILITY COMPANY REQUIREMENTS WITH REGARDS TO MATERIALS AND INSTALLATION OF THE WATER, SEWER, GAS AND ELECTRICAL AND TELECOMMUNICATIONS LINES.
15. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICE.
16. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
17. ALL HYDRANTS SHALL MEET LOCAL MUNICIPAL SPECIFICATION REQUIREMENTS AND SHALL BE INSTALLED IN ACCORDANCE WITH THE TOWN OF BELMONT REQUIREMENTS.
18. ALL WATER MAINS 3 INCHES AND LARGER SHALL BE CEMENT LINED DUCTILE IRON - CLASS 52, AND SHALL BE INSTALLED WITH APPROPRIATELY SIZED FITTINGS AND GATE VALVES.
19. DOMESTIC WATER SERVICES SHALL BE INSTALLED WITH APPROPRIATELY SIZED GATE, BOX, AND TEE FITTINGS.
20. ALL WATER MAIN APPURTENANCES, MATERIALS, METHODS OF INSTALLATION AND TESTING REQUIREMENTS SHALL MEET OR EXCEED THE TOWN OF BELMONT REQUIREMENTS.
21. ALL WATER MAIN FITTINGS, VALVES AND TEES ETC. SHALL BE RESTRAINED WITH THRUST BLOCKS AS REQUIRED BY THE TOWN OF BELMONT. WHERE ADEQUATE RESTRAINT CANNOT BE OBTAINED WITH THRUST BLOCKS, USE OF RETAINER GLANDS IS REQUIRED. THE WATER LINE SHALL HAVE MECHANICAL JOINTS WITH APPROPRIATE THRUST BLOCKING AS REQUIRED TO PROVIDE A MINIMUM OF 18" CLEARANCE. MEETING REQUIREMENTS OF ANSI A21.10 OR ANSI 21.11 (AWWA C-151) (CLASS 50).
22. THE CONTRACTOR SHALL FIELD VERIFY/LOCATE EXISTING WATER MAINS AND SERVICES.
23. VALVES SHALL BE GATE VALVES AND SHALL BE RESILIENT SEAT, MODIFIED WEDGE DISK CONFORMING TO AWWA C-509, AND BE APPROVED BY THE MUNICIPALITY.
24. PRESSURE AND LEAKAGE TEST, DISINFECTION AND FLUSHING SHALL BE IN ACCORDANCE WITH ALL LOCAL AND MUNICIPAL STANDARDS AND REQUIREMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS IN CONNECTION WITH THE UTILITY TESTS, FLUSHING AND INSPECTIONS AS REQUIRED BY THE LOCAL MUNICIPALITY.
25. ALL WATER SERVICES SHALL BE INSTALLED WITHIN 5' OF PROPOSED BUILDING FACE.
26. SEWER PIPE BEDDING MATERIAL SHALL BE AS SPECIFIED ON THE DRAWINGS. IF LOCAL OR STATE AUTHORITIES REQUIRE DIFFERENT BEDDING OR BACKFILL MATERIAL, THEN THE MORE STRINGENT SHALL APPLY.
27. SEWER FORCEMAIN SHALL BE TESTED AT 2X THE WORKING PRESSURE OR 150 PSI, WHICH EVER IS GREATER. THE PRESSURE SHALL BE MAINTAINED FOR 2 HOURS WITH NO MORE THAN A 5 PSI OR 5% DROP IN PRESSURE, WHICH EVER IS GREATER.
28. ALL SANITARY SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT AND SHALL HAVE TRAFFIC BEARING RING & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISH GRADE. LIDS SHALL BE LABELED "SEWER".

GENERAL NOTES

GRADING AND DRAINAGE NOTES

1. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING STRUCTURES INCLUDING REMOVAL OF ANY EXISTING UTILITIES SERVING THE STRUCTURE. UTILITIES ARE TO BE REMOVED TO THE RIGHT-OF-WAY.
2. ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.
3. PRECAST STRUCTURES MAY BE USED AT CONTRACTORS OPTION.
4. STORM PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) CLASS III.
5. EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
6. EXISTING GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT
7. PROPOSED GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT.
8. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
9. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
10. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT AND SHALL HAVE TRAFFIC BEARING RING & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISH GRADE. LIDS SHALL BE LABELED "DRAIN".
11. THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE GENERAL N.P.D.E.S. PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
12. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
13. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
14. ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER. CONTRACTOR SHALL GRASS DISTURBED AREAS IN ACCORDANCE WITH COUNTY SPECIFICATIONS UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
15. ALL CATCH BASINS ON-SITE SHALL BE EQUIPPED WITH HOODS AND 4 FOOT SUMPS AND SHALL CONFORM TO LOCAL DRAINAGE REQUIREMENTS.
16. A MINIMUM OF 18" VERTICAL CLEARANCE SHALL BE MAINTAINED WHERE WATER SERVICES CROSS STORM DRAIN LINES. WATER SERVICES SHALL BE ENCASED IN CONCRETE REGARDLESS OF CLEARANCE WHEN PASSING BELOW STORM DRAIN LINES. ENCASEMENT SHALL EXTEND ALONG WATER SERVICE A MINIMUM DISTANCE OF TEN FEET FROM THE CROSSING POINT OF THE OTHER PIPE AS MEASURED NORMALLY FROM ALL POINTS ALONG THE PIPE.
17. ALL DRAINAGE SHALL CONFORM TO LOCAL REQUIREMENTS.

EROSION AND SEDIMENTATION CONTROL NOTES:

1. SILT CONTROL SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND SHALL BE ADEQUATE TO MAINTAIN SEDIMENT ON SITE. ANY MODIFICATIONS TO SILT CONTROLS SHOWN ON THE APPROVED PLANS AS A RESULT OF ACTUAL FIELD CONDITIONS OR CONSTRUCTION PRACTICES SHALL BE INSTALLED IN ACCORDANCE WITH B.M.P. (BEST MANAGEMENT PRACTICES) PER THE E.P.A. 1992 "STORMWATER MANAGEMENT FOR CONSTRUCTION ACTIVITIES" MANUAL. ANY SUCH MODIFICATIONS SHALL BE INSTALLED AS APPROVED BY THE ENGINEER.
2. THE CONTRACTOR SHALL CONDUCT INSPECTIONS AFTER EACH RAINFALL EVENT IN ADDITION TO WEEKLY INSPECTIONS & MAINTAINING A LOG.
3. AREAS OF EXPOSED SOIL UNDERGOING CONSTRUCTION THAT WILL NOT BE COVERED AND OR FINISHED GRADED WITHIN 7 DAYS OF EXPOSURE SHALL BE ANCHORED WITH TEMPORARY EROSION CONTROL MEASURES WITHIN 7 DAYS OF DISTURBANCE. TEMPORARY EROSION CONTROL MEASURES SHALL INCLUDE EROSION CONTROL MESH, NETTING OR MULCH AS DIRECTED BY THE OWNER'S REPRESENTATIVE AND SHOWN ON THE DESIGN PLANS. IF MULCH IS USED, HAY OR STRAW MULCH SHALL BE APPLIED AT THE RATE OF 2 BALES PER 1,000 SQUARE FEET. APPLICATION AREA SHALL BE SUFFICIENTLY COVERED WITH MULCH TO AVOID ANY VISIBLE SOIL EXPOSURE. MULCH SHALL BE KEPT MOIST TO AVOID LOSS DUE TO WIND. MULCH AND NETTING SHALL BE APPLIED IN THE BASE OF ALL GRASSED WATERWAYS AND IN VEGETATIVE SLOPES WHICH EXCEED 15% AND DISTURBED AREAS WITHIN 100 FEET OF WETLANDS OR STREAMS.
4. IF DISTURBED AREAS DO NOT RECEIVE FINAL SEEDING BY SEPTEMBER 15 OF THE CONSTRUCTION YEAR, THEN ALL DISTURBED AREAS SHALL BE SEEDED WITH A WINTER COVER CROP AT THE RATE OF 3 LBS PER 1,000 SQUARE FEET. WINTER SEEDING SHALL BE COVERED WITH EROSION CONTROL MESH (MULCH AND NETTING). HEAVY GRADE MATS SHALL BE USED IN THE BASE OF ALL GRASSED WATERWAYS ON VEGETATED SLOPES IN EXCESS OF 15%, AND ANY DISTURBED AREAS WITHIN 100 FEET OF WETLANDS OR STREAMS. MULCH AND NETTING SHALL ALSO BE PROVIDED FOR ADDITIONAL WINTER PROTECTION.
5. SOIL AND FILL STOCKPILES EXPECTED TO REMAIN IN PLACE FOR LESS THAN 90 DAYS SHALL BE COVERED WITH HAY AND MULCH (AT 100LBS/1,000 SF), OR WITH AN ANCHORED TARP WITHIN 7 DAYS OR PRIOR TO ANY RAINFALL. SOIL AND FILL STOCKPILES EXPECTED TO REMAIN IN PLACE FOR 90 DAYS OR MORE SHALL BE SEEDED WITH WINTER RYE (FOR FALL SEEDING AT 3LB/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. LOAM SHALL BE STOCKPILED AT LOCATIONS DESIGNATED BY THE OWNER AND ENGINEER.
6. ALL FILTER BARRIERS, SILT SACKS, AND EROSION CONTROL BERMS SHALL BE INSTALLED ACCORDING TO THE EROSION CONTROL PLAN. THESE SHALL BE MAINTAINED DURING CONSTRUCTION TO REMOVE SEDIMENT FROM RUNOFF WATER. ALL THE FILTER BARRIERS AND EROSION CONTROL BERMS SHALL BE INSPECTED AFTER ANY RAINFALL OR RUNOFF EVENT, MAINTAINED AND CLEANED UNTIL ALL AREAS HAVE AT LEAST 85-90% VIGOROUS PERENNIAL COVER OF GRASSES.
7. THE EXISTING PARKING LOT SHALL BE PERIODICALLY SWEEP OR WASHED TO AVOID TRACKING MUD, DUST OR DEBRIS FROM THE CONSTRUCTION AREA.
8. A WATERING TRUCK WILL BE USED TO PERIODICALLY SPRINKLE CONSTRUCTION AREAS IN ORDER TO KEEP THE LEVEL OF DUST TO A MINIMUM (AS REQUIRED).
9. THE CONTRACTOR SHALL USE EXTREME CAUTION TO AVOID ALLOWING SEDIMENTS TO ENTER THE STORM DRAIN SYSTEM DURING CONSTRUCTION. CATCH BASIN INLETS SHALL ALSO BE PROTECTED DURING CONSTRUCTION BY THE USE OF STRAW BALE BARRIERS AROUND EACH INLET. SILT SACKS SHALL BE INSTALLED IN ALL EXISTING BASINS. INLET PROTECTION MAY BE REMOVED ONLY AFTER FINISHED AREAS ARE PAVED AND THE VEGETATED SLOPES ARE ESTABLISHED WITH AT LEAST 85-90% OF VIGOROUS PERENNIAL GROWTH.
10. REVEGETATION MEASURES SHALL COMMENCE IMMEDIATELY UPON THE COMPLETION OF CONSTRUCTION.
11. LOAM WILL BE SPREAD OVER DISTURBED AREAS AND SMOOTHED TO A UNIFORM SURFACE PER SPECIFICATIONS. LOAM SHALL BE FREE OF SOIL, CLAY LUMPS, STONES AND OTHER OBJECTS OVER 1 INCH IN DIAMETER, AND WITHOUT WEEDS, ROOTS OR OTHER DELETERIOUS MATERIAL.
12. EROSION CONTROL MESH SHALL BE APPLIED IN ACCORDANCE WITH THE PLANS OVER ALL FINISHED SEEDED AREAS AS SPECIFIED ON THE DESIGN PLANS.
13. ALL HAY BALE AND FILTER FABRIC SHALL REMAIN IN PLACE UNTIL SEEDINGS HAVE BECOME 85-90% ESTABLISHED AND THEN REMOVED WITHIN 10 DAYS.
14. AT THE OWNER'S DISCRETION ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED TO MAINTAIN STABILITY OF EARTHWORKS AND FINISHED GRADED AREAS. THE CONTRACTOR, AT HIS EXPENSE, WILL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ANY ADDITIONAL MEASURES AS SPECIFIED BY THE OWNER. THIS INCLUDES BUT IS NOT LIMITED TO REQUESTS BY MADEP AND THE MUNICIPALITY, AS AUTHORIZED BY THE OWNER.
15. INSPECTIONS AND MONITORING MAINTENANCE MEASURES SHALL BE APPLIED AS NEEDED DURING THE ENTIRE CONSTRUCTION CYCLE. WEEKLY INSPECTIONS SHALL BE HELD THROUGH THE DURATION OF CONSTRUCTION ACTIVITY. WEEKLY INSPECTION REPORTS SHALL BE MAINTAINED IN THE CONTRACTORS FIELD OFFICE. IN ADDITION TO THE NORMAL WEEKLY INSPECTIONS, THE CONTRACTOR SHALL PERFORM AN INSPECTION OF ALL EROSION CONTROL MEASURES AFTER EACH RAINFALL OR RUNOFF EVENT, AND PERFORM THE NECESSARY REPAIRS.
16. IF ANY EVIDENCE OF SEDIMENTATION IS OBSERVED IN THE INLETS, THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, PROVIDE A PLAN TO THE ENGINEER TO REMOVE ANY ACCUMULATED SEDIMENT IN THESE AREAS. THE CONTRACTOR SHALL ALSO IMMEDIATELY PROVIDE ADDITIONAL ON SITE EROSION AND SEDIMENTATION CONTROL MEASURES TO PREVENT FURTHER DEGRADATION OF THE AREA.
17. FOLLOWING THE TEMPORARY OR FINAL SEEDINGS, THE CONTRACTOR SHALL INSPECT THE WORK AREA BIMONTHLY TO ENSURE THE AREAS HAVE A MINIMUM OF 85-90% VEGETATED VIGOROUS GROWTH. RESEEDING SHALL BE CARRIED OUT BY THE CONTRACTOR WITH FOLLOW UP INSPECTIONS IN THE EVENT OF ANY FAILURES UNTIL VEGETATION IS ADEQUATELY ESTABLISHED.

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SEAL



PROJECT

CUSHING VILLAGE

CUSHING SQUARE  
BELMONT, MA

PREPARED FOR



6 LITTLEFIELD ROAD  
ACTON, MA 07120

DRAWING TITLE

ABBREVIATION  
& NOTES

SCALE AS NOTED

REVISION	DATE
SP REV-4	07-11-13
SP REV-3C	06-18-13
SP REV-2	05-31-13
MISC. UPDATE PER PEER REVIEW	05-24-13
MISC. UPDATE PER PEER REVIEW	04-19-13
DRAWN BY WL	REVIEWED BY MAM

SHEET

C-1



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SEAL

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SEAL



PROJECT

CUSHING VILLAGE

CUSHING SQUARE  
BELMONT, MA

PREPARED FOR



6 LITTLEFIELD ROAD  
ACTON, MA 01710

DRAWING TITLE

LAYOUT &  
MATERIALS

SCALE AS NOTED

REVISION	DATE
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DRAWN BY MAM	REVIEWED BY RC

SHEET

C.2

LEGEND:

PROP. PROPERTY LINE	---
SIGN	+
BOLLARD	•
BUILDING	[Hatched Box]
BUILDING ARCHITECTURE	[Hatched Box]
BUILDING INTERIOR WALLS	[Hatched Box]
CURB	---
RETAINING WALL	[Hatched Box]
PARKING STRIPING	[Hatched Box]
ROADWAY STRIPING	[Hatched Box]
TRAFFIC ARROWS	[Arrow]
HEAVY DUTY CONCRETE	[Hatched Box]
HEAVY DUTY PAVEMENT	[Hatched Box]
SIDEWALK	[Hatched Box]
PARKING COUNT	⑩
COMPACT PARKING STALL	⊙

LAYOUT & MATERIAL NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND BENCH MARKS NECESSARY.
- ACCESSIBLE ACCESSIBLE PARKING SPACES SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (A.D.A.) AND MASSACHUSETTS 521 CMR ARCHITECTURAL ACCESS BOARD UNLESS OTHERWISE NOTED.
- ACCESSIBLE PARKING SPACES DESIGNATED WITH A "VAN" SHALL BE SIGNED AS "VAN ACCESSIBLE" PER A.D.A. 4.1.2.5b.
- ALL STANDARD PARKING SPACES SHALL BE 9 FT. WIDTH BY 18 FT. LENGTH, WITH COMPACT SPACES 8 FT. WIDTH BY 16 FT. LENGTH.
- ALL PAVEMENT STRIPING SHALL BE PAINTED WITH 2 COATS OF PAINT.
- ANY DAMAGE TO PRIVATE OR PUBLIC PROPERTIES DUE TO THE CONTRACTOR'S ACTIVITIES SHALL BE REPAIRED AND RESTORED BY THE CONTRACTOR AT THEIR OWN EXPENSE.
- ALL CURBING SHALL BE VERTICAL GRANITE, UNLESS NOTED OR DETAILED OTHERWISE.
- ALL PERMITS AND APPROVALS NECESSARY FROM AGENCIES GOVERNING THE WORK SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK. PROVIDE THE SITE DEVELOPMENT MANAGER COPIES OF ALL PERMITS AND APPROVALS.
- ALL SIGNAGE SHALL CONFORM TO ALL APPLICABLE TOWN OF BELMONT REGULATIONS WITH ALL PERMITS SECURED PRIOR TO CONSTRUCTION.

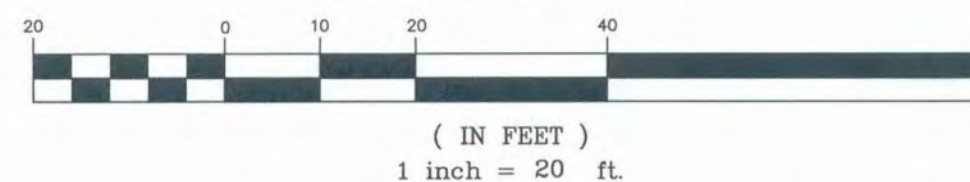
GENERAL NOTES

- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- THE INFORMATION SHOWN ON THIS PLAN IS THE SOLE PROPERTY OF ALLEN & MAJOR ASSOCIATES, INC. IT'S 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.
- THE CONTRACTOR SHALL CONTACT "DIGSAFE", THE TOWN OF BELMONT DPW & COMMUNITY DEVELOPMENT AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST THE LOCATION OF THE EXISTING UTILITIES.

DIGSAFE:  
TOWN OF BELMONT DPW: 1-800-344-7233  
TOWN OF BELMONT COM. DEV. 1-617-993-2680  
1-617-993-2650

- WRITTEN DIMENSIONS ON THIS PLAN TAKE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL USE CAUTION WHEN SCALING REPRODUCED PLANS. IN THE EVENT OF A CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWINGS AND/OR SPECIFICATIONS OR CONDITIONS, THE ENGINEER SHALL BE NOTIFIED BY THE CONTRACTOR. ALL SITE ITEMS SHALL BE LAYED OUT AND ASBUILT BY A LICENSED LAND SURVEYOR.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR CONDITIONS AT THE SITE. THESE PLANS, PREPARED BY ALLEN & MAJOR ASSOCIATES, INC., DO NOT EXTEND TO OR INCLUDE SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR THEIR EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK, OR THE OWNER'S EMPLOYEES, CUSTOMERS, OR THE GENERAL PUBLIC. THE SEAL OF THE ENGINEER AS INCLUDED IN THE PLAN SET DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED INTO THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PROVIDE THE APPROPRIATE SAFETY SYSTEMS WHICH MAY BE REQUIRED BY THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), STATE, AND LOCAL REGULATIONS.
- EXISTING CURBING SALVAGED FROM COMMON & BELMONT ST. AND TRAPELO ROAD TO BE STOCKPILED AND PROTECTED FROM DAMAGE FOR FUTURE USE WITHIN RIGHT-OF-WAY. ANY REMAINING GRANITE CURB LEFT AFTER THE COMPLETION OF THE PROJECT TO BE RETURNED TO BELMONT DPW.
- CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE ANY EXISTING PHYSICAL FEATURES NOT SLATED TO BE RE-USED FROM WITH PROJECT LIMITS SO AS TO PROVIDE A REASONABLY WORKABLE SITE, INCLUDING BUT NOT LIMITED TO BUILDINGS, CONCRETE PADS, LIGHT POLES, FENCES, ETC.
- REFER TO LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION.

GRAPHIC SCALE



R:\Projects\1837-01\Civil\Drawings\Current\C-1837-01-Layout.dwg





# PETER QUINN ARCHITECTS

ARCHITECTURE  
PLANNING  
COMMUNITY DESIGN

PETER QUINN ARCHITECTS LLC  
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SEAL

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WOBURN, MA • LAKEVILLE, MA • MANCHESTER, NH

SEAL



PROJECT

CUSHING VILLAGE  
CUSHING SQUARE  
BELMONT, MA

PREPARED FOR



6 LITTLEFIELD ROAD  
ACTON, MA 01710

DRAWING TITLE

## GRADING & DRAINAGE

SCALE AS NOTED

REVISION	DATE
SP REV-4	07-11-13
SP REV-3C	06-18-13
SP REV-2	05-31-13
MISC. UPDATE PER PEER REVIEW	05-24-13
MISC. UPDATE PER PEER REVIEW	04-19-13
DRAWN BY WL	REVIEWED BY MAM

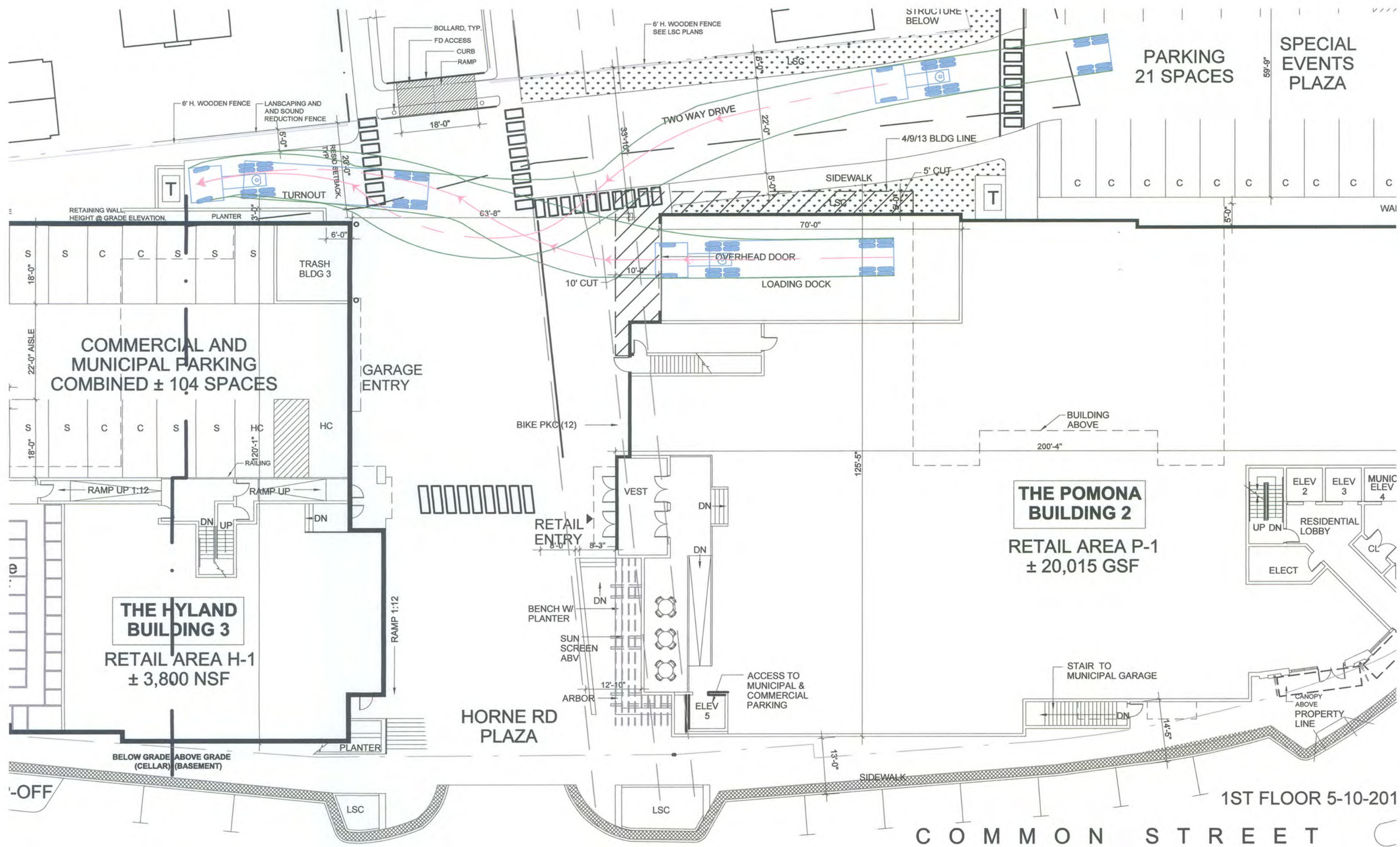
SHEET

# C.3

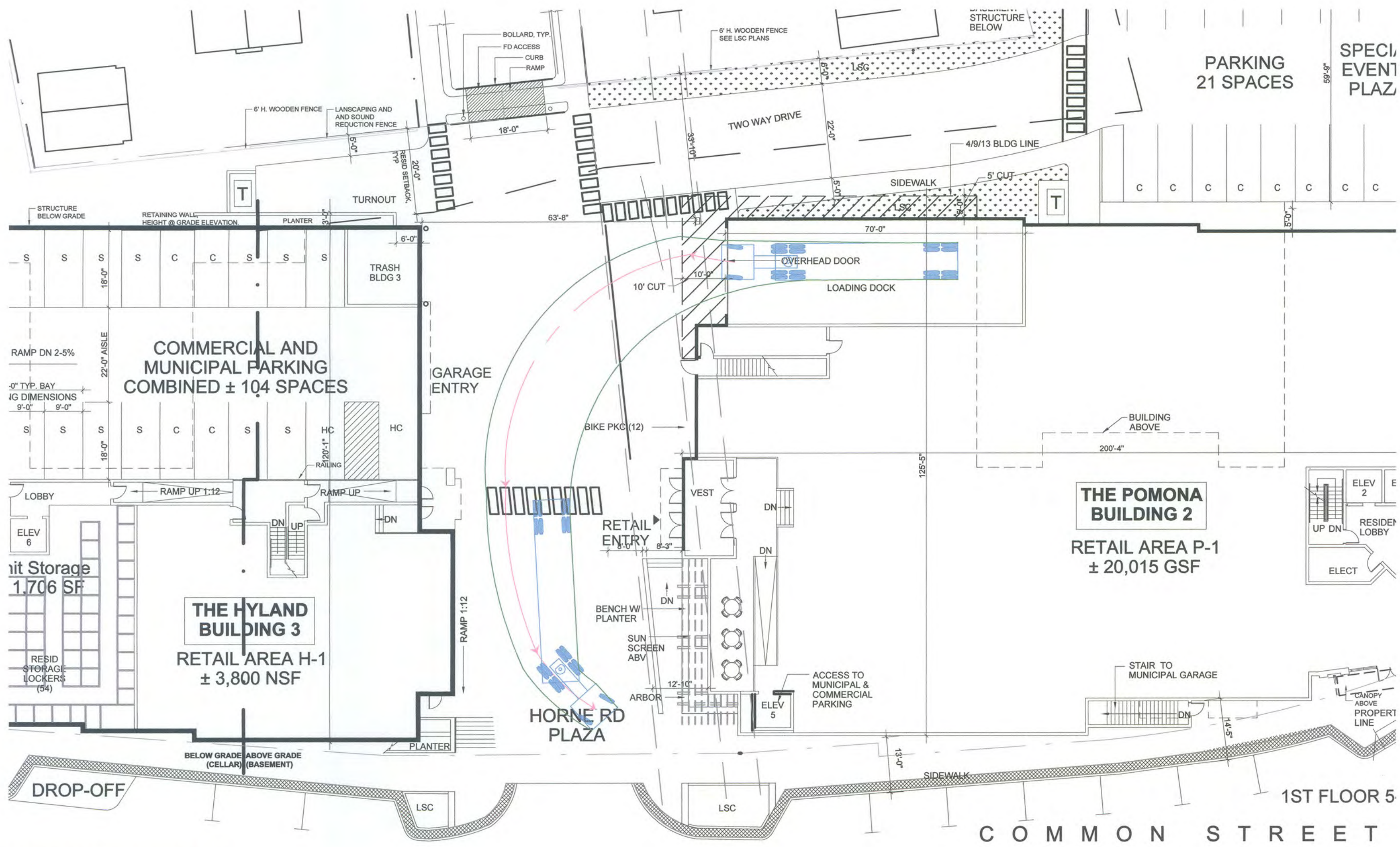




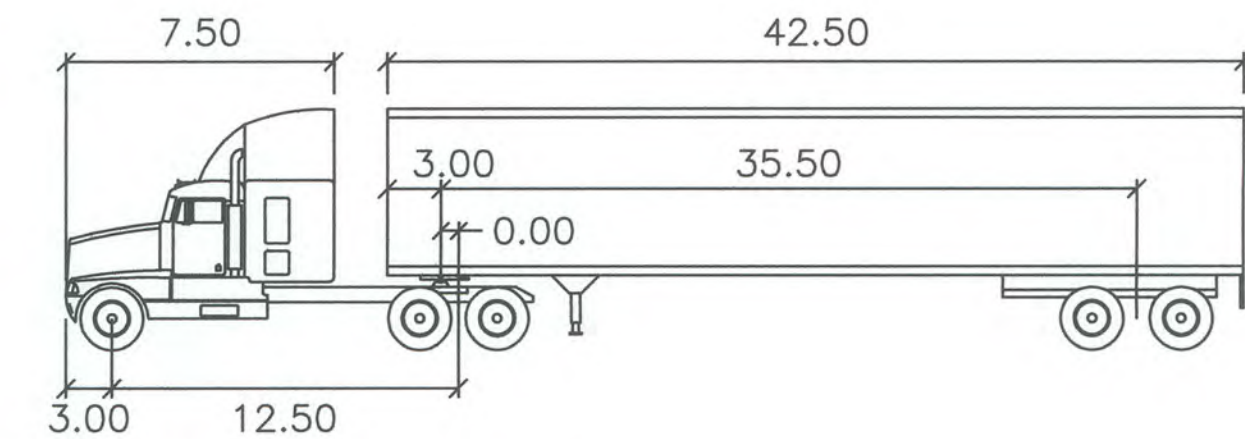




WB-50 INGRESS

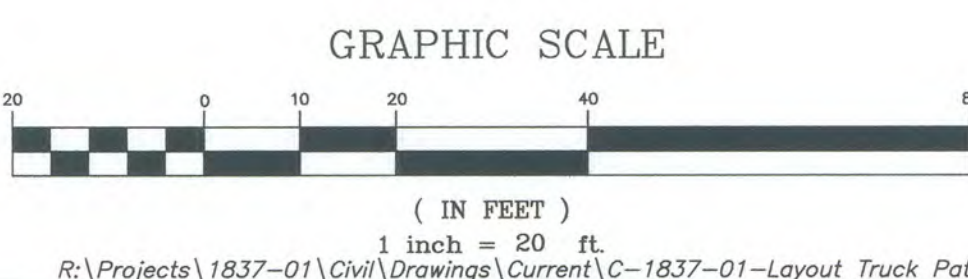
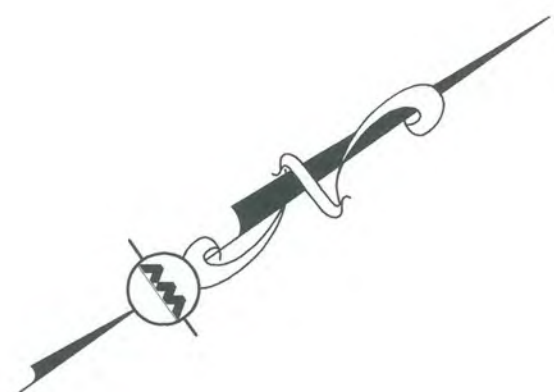


WB-50 EGRESS

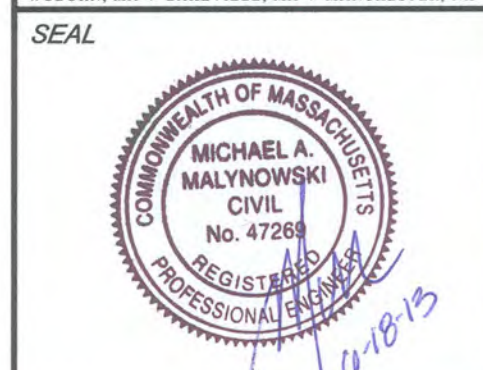


WB-50

Tractor Width	: 8.00	Lock to Lock Time	: 6.0
Trailer Width	: 8.50	Steering Angle	: 17.7
Tractor Track	: 8.00	Articulating Angle	: 70.0
Trailer Track	: 8.50		



SEAL



PROJECT

**CUSHING VILLAGE**  
CUSHING SQUARE  
BELMONT, MA

PREPARED FOR  
**SMITH LEGACY PARTNERS**  
6 LITTLEFIELD ROAD  
ACTON, MA 07120

DRAWING TITLE

**WB50 TRUCK MOVEMENT**

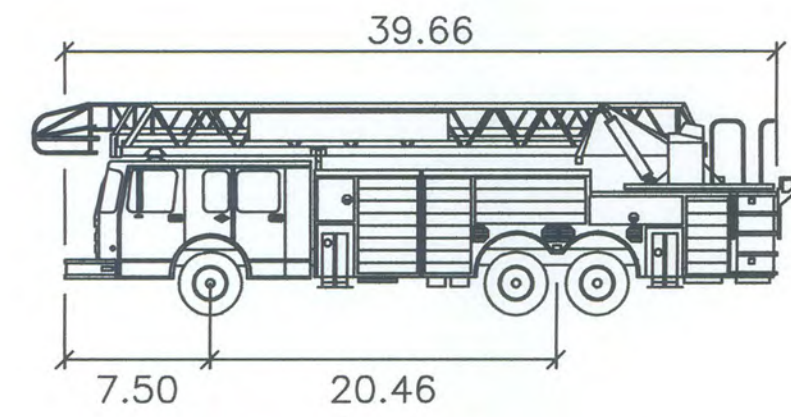
SCALE AS NOTED

REVISION	DATE
SP REV-4	07-11-13
SP REV-3C	06-18-13
SP REV-2	05-31-13
MISC. UPDATE PER PEER REVIEW	05-24-13
MISC. UPDATE PER PEER REVIEW	04-19-13
MISC. UPDATE	02-25-13
DRAWN BY MAM	REVIEWED BY RC

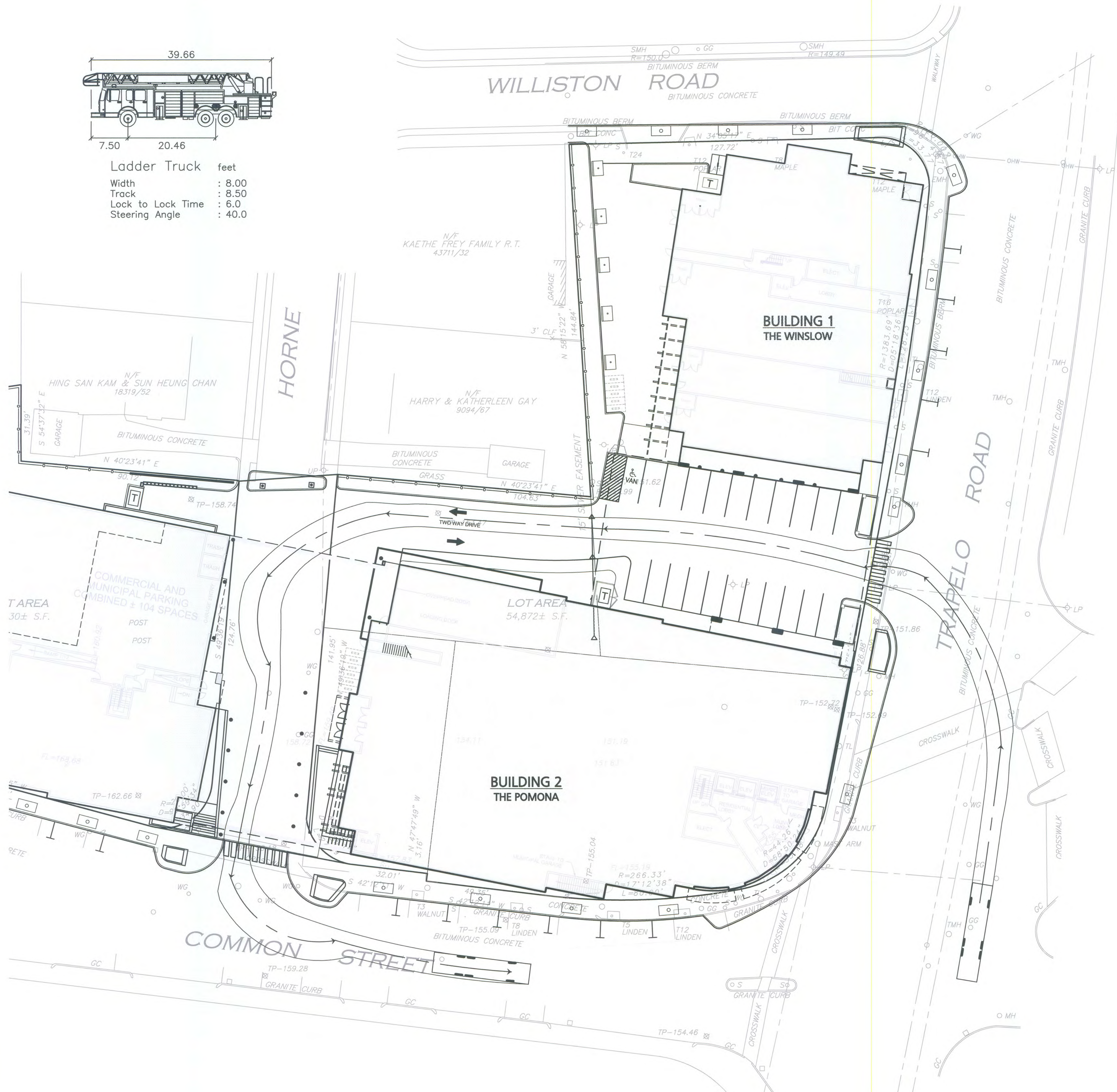
SHEET

**C.5A**



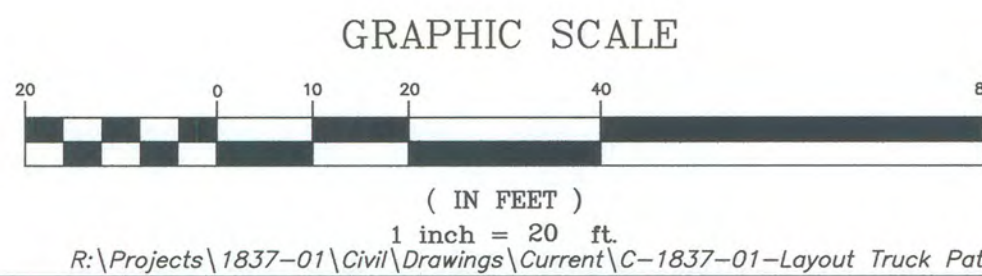


Ladder Truck feet  
Width : 8.00  
Track : 8.50  
Lock to Lock Time : 6.0  
Steering Angle : 40.0



**LEGEND:**

PROP. PROPERTY LINE	---
SIGN	T
BOLLARD	⊙
BUILDING	[Solid black rectangle]
BUILDING ARCHITECTURE	[Line drawing of building facade]
BUILDING INTERIOR WALLS	[Dashed line]
CURB	==
RETAINING WALL	[Hatched area]
PARKING STRIPING	[Parallel lines with arrows]
ROADWAY STRIPING	[Double parallel lines]
TRAFFIC ARROWS	[Two arrows pointing in opposite directions]
HEAVY DUTY CONCRETE	[Stippled pattern]
HEAVY DUTY PAVEMENT	[Cross-hatched pattern]
SIDEWALK	[Dashed line with dots]
PARKING COUNT	⑩
COMPACT PARKING STALL	⊙



PETER  
QUINN  
ARCHI  
TECTS

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SEAL



PROJECT

CUSHING VILLAGE  
CUSHING SQUARE  
BELMONT, MA

PREPARED FOR



6 LITTLEFIELD ROAD  
ACTON, MA 07120

DRAWING TITLE

LADDER TRUCK  
MOVEMENT

SCALE AS NOTED

REVISION	DATE
SP REV-4	07-11-13
SP REV-3C	06-18-13
SP REV-2	05-31-13
MISC. UPDATE PER PEER REVIEW	05-24-13
MISC. UPDATE PER PEER REVIEW	04-19-13
MISC. UPDATE	02-25-13
DRAWN BY MAM	REVIEWED BY RC
SHEET	

C.5B



# PETER QUINN ARCHITECTS

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PLANNING  
COMMUNITY DESIGN

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WORDEN, MA • LAKEVILLE, MA • MANCHESTER, NH

SEAL



PROJECT

CUSHING VILLAGE  
CUSHING SQUARE  
BELMONT, MA

PREPARED FOR



6 LITTLEFIELD ROAD  
ACTON, MA 01710

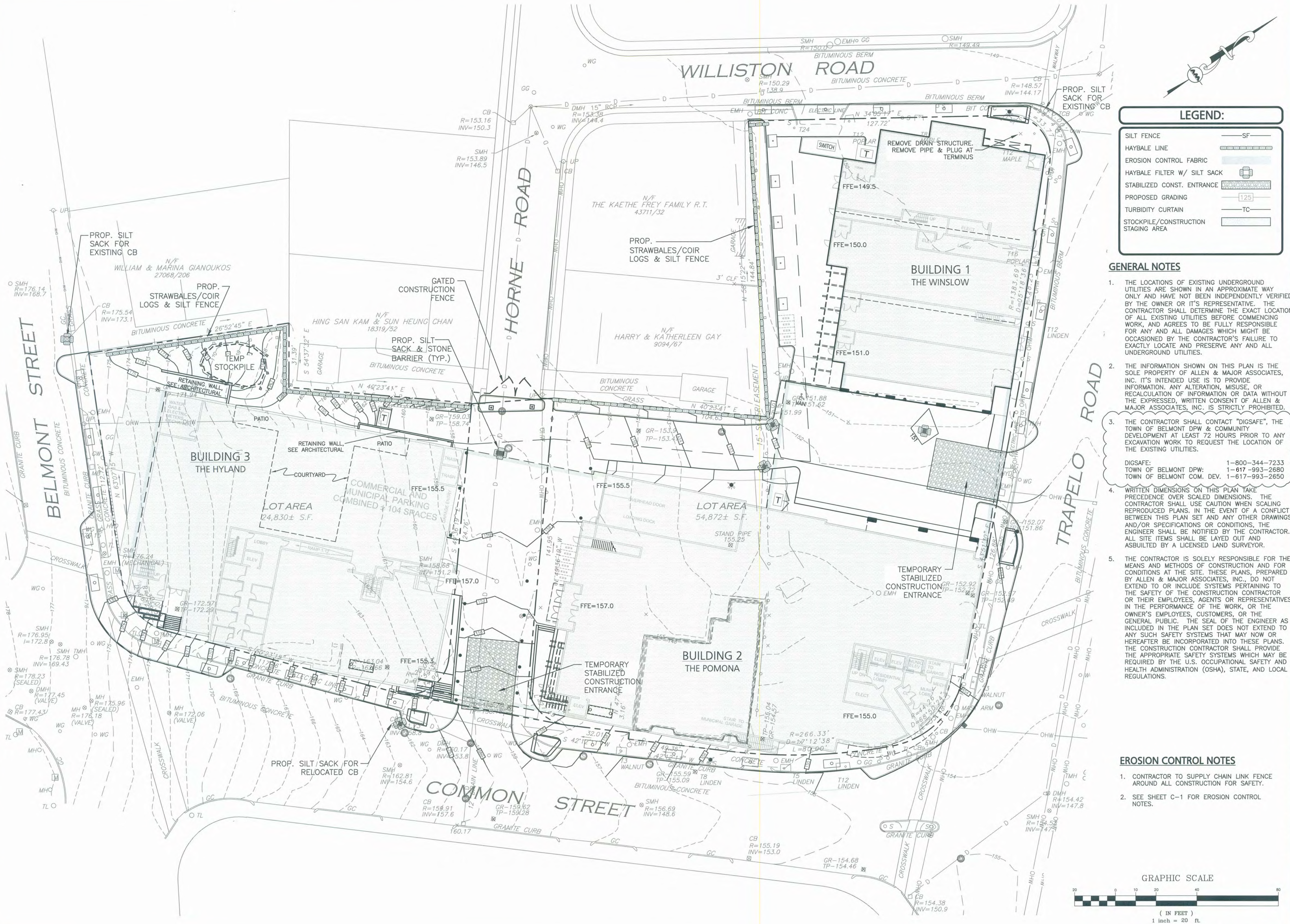
DRAWING TITLE

## EROSION CONTROL

SCALE AS NOTED

REVISION	DATE
SP REV-4	07-11-13
SP REV-3C	06-18-13
SP REV-2	05-31-13
MISC. UPDATE PER PEER REVIEW	05-24-13
MISC. UPDATE PER PEER REVIEW	04-19-13
DRAWN BY WL	REVIEWED BY MAM
SHEET	

# C.6





## CONSTRUCTION GENERAL PERMIT NOTES

1. THE OWNER ALONG WITH THE CONTRACTOR AND OPERATORS ARE REQUIRED TO OBTAIN A CONSTRUCTION GENERAL PERMIT (CGP) FROM THE ENVIRONMENTAL PROTECTION AGENCY (EPA) FOR CONSTRUCTION ACTIVITIES GREATER THAN ONE ACRE. ALONG WITH THE CGP, A STORM WATER NOTICE OF INTENT (NOI) WILL NEED TO BE SUBMITTED TO THE EPA AT LEAST 14 DAYS PRIOR TO COMMENCING CONSTRUCTION. THE NOI WILL NEED TO BE SUBMITTED TO:

STORM WATER NOTICE OF INTENT (4203M)  
USEPA, 1200 PENNSYLVANIA AVE. NW,  
WASHINGTON, DC 20460

2. THE OUTLINE OF THE CGP MANDATES THE OWNER AND CONTRACTOR TO COMPLY WITH THE REQUIREMENTS OF THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATER REGULATIONS, STORM WATER POLLUTION PREVENTION PLANS (SWPPP'S), IMPLEMENTATION OF EROSION AND SEDIMENTATION CONTROLS, INCLUDING, BUT NOT LIMITED TO EQUIPMENT MAINTENANCE GUIDELINES. PLEASE CONTACT THELMA MURPHY OF EPA'S REGION 1: NEW ENGLAND AT 617-918-1615.

### SEQUENCE OF CONSTRUCTION

1. INSTALL STABILIZED CONSTRUCTION ENTRANCES.
2. PREPARE TEMPORARY PARKING AND STORAGE AREA. UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAY DOWN, PORTA POTT, WHEEL WASH, CONCRETE WASHOUT, MASON'S AREA, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., DENOTE THEM ON THE SITE MAPS IMMEDIATELY AND NOTE ANY CHANGES IN THE LOCATIONS AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.
3. CONSTRUCT THE SILT FENCE, HAY BALE AND COIR LOG BARRIERS ON THE SITE.
4. CONSTRUCT THE SEDIMENTATION AND SEDIMENT TRAP BASINS.
5. CLEAR AND GRUB THE SITE.
6. HALT ALL ACTIVITIES AND CONTACT THE CIVIL ENGINEERING CONSULTANT TO PERFORM INSPECTION OF BMP'S. GENERAL CONTRACTOR SHALL SCHEDULE AND CONDUCT STORM WATER PRE-CONSTRUCTION MEETING WITH ENGINEER AND ALL GROUND DISTURBING CONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION.
7. BEGIN GRADING THE SITE.
8. COMPLETE GRADING AND INSTALL PERMANENT SEEDING AND PLANTING.
9. CONSTRUCT WETLAND REPLICATION AREAS AND INSTALL SECONDARY EROSION CONTROL MEASURES.
10. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES (ONLY IF SITE IS STABILIZED).

### DEWATERING

IF DEWATERING IS NECESSARY IT SHALL ONLY BE COMPLETED AS FOLLOWS:

THE DISCHARGE SHALL BE STOPPED IMMEDIATELY IF THE RECEIVING AREA SHOWS ANY SIGN OF INSTABILITY OR EROSION. ALL CHANNELS, SWALES, AND DITCHES DUG FOR DISCHARGING WATER FROM THE EXCAVATED AREA SHALL BE STABLE PRIOR TO DIRECTING DISCHARGE TO THEM. IF A CONSTRUCTION EQUIPMENT BUCKET IS USED, IT SHALL EMPTY THE MATERIAL TO A STABLE AREA. NO DEWATERING SHALL OCCUR DURING PERIODS OF INTENSE, HEAVY RAIN. FLOW TO THE SEDIMENT REMOVAL STRUCTURE SHALL NOT EXCEED THE STRUCTURES CAPACITY TO SETTLE AND FILTER FLOW OR IS VOLUME CAPACITY. WHENEVER POSSIBLE, THE DISCHARGE FROM THE SEDIMENT REMOVAL STRUCTURE SHALL DRAIN TO A WELL-VEGETATED BUFFER BY SHEET FLOW WHILE MAXIMIZING THE DISTANCE TO THE NEAREST WATER RESOURCE AND MINIMIZING THE SLOPE OF THE BUFFER AREA. THERE SHALL BE NO DIRECT DISCHARGE TO EXISTING WETLANDS OR STREAMS. ALL DISCHARGE SHALL BE IN COMPLIANCE WITH STATE, LOCAL, AND FEDERAL REQUIREMENTS.

### MAINTENANCE

ALL MEASURES STATED ON THIS EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR THE APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT, AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

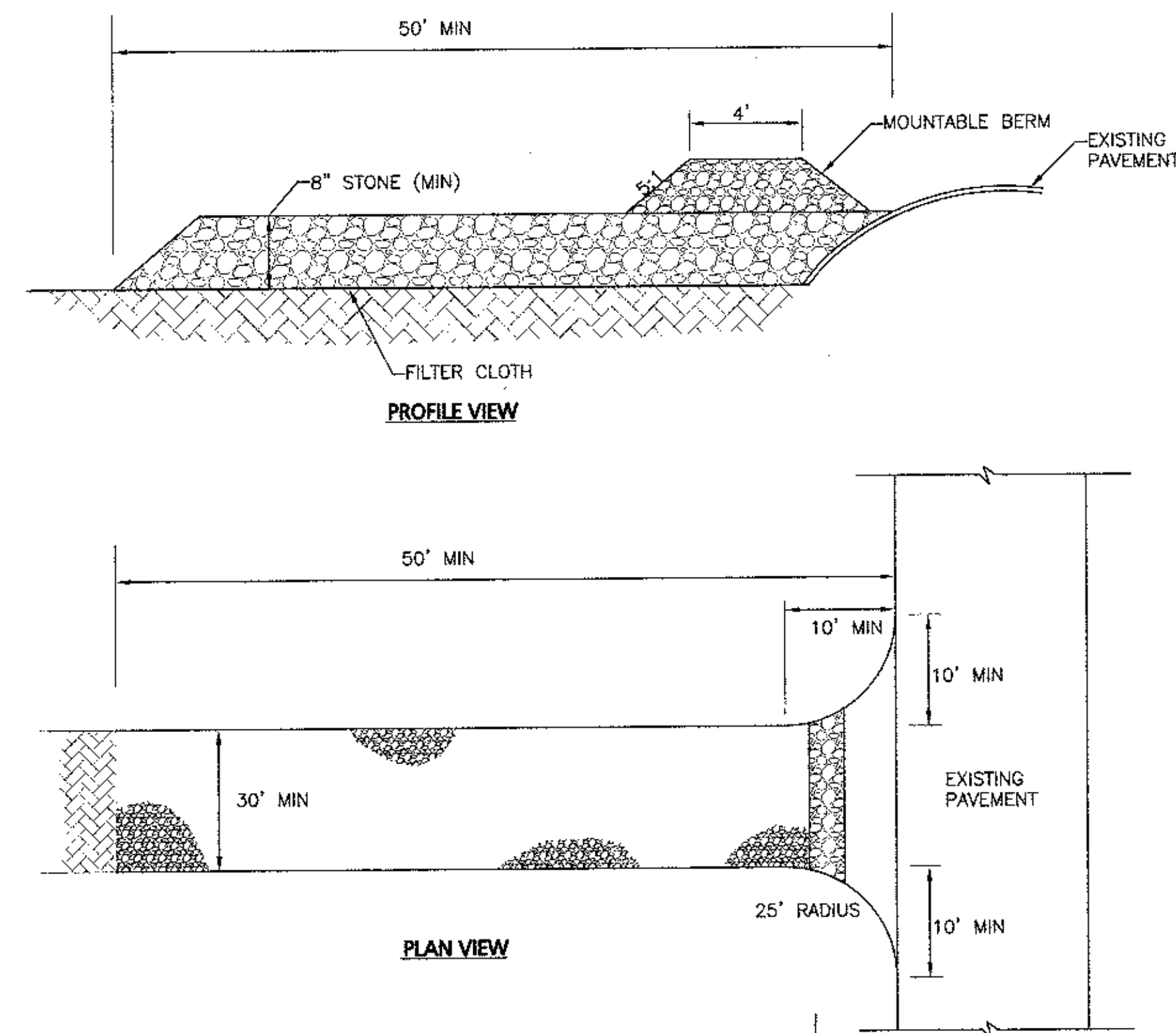
1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETEIORATION.
2. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEED AS NEEDED.
3. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.
4. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.
5. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.
6. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 50%.

### THE EROSION CONTROL PLAN WILL BE IMPLEMENTED TO:

- A. REAT EROSION AS SOON AS POSSIBLE AFTER DISTURBANCE.
- B. PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION AREA AND ENTERING THE WETLANDS.
- C. CONSTRUCTION ACTIVITIES SHALL BE SCHEDULED TO MINIMIZE EROSION.
- D. ONLY DISTURB, CLEAR, OR GRADE AREAS NECESSARY FOR CONSTRUCTION.
- E. IF NECESSARY, CONSTRUCT TEMPORARY SEDIMENTATION BASINS

### NOTES:

1. INSPECTION AND MAINTENANCE: AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN OUT OR REPAIR PROMPTLY. INSPECT CHANNELS AT REGULAR INTERVALS AND AFTER SIGNIFICANT STORM EVENTS. REMOVE DEBRIS IF NECESSARY AND MAKE NEEDED REPAIRS WHERE STONES HAVE BEEN DISPLACED. REPAIR ERODED AREAS PROMPTLY.
2. TEMPORARY SEDIMENT TRAPS AND OTHER TEMPORARY SEDIMENT AND EROSION CONTROLS DURING CONSTRUCTION WILL BE DETERMINED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL. DURING CONSTRUCTION THE SITE SHALL BE TEMPORARILY GRADED TO PREVENT RUNOFF INTO ADJACENT PROPERTIES.



### NOTES:

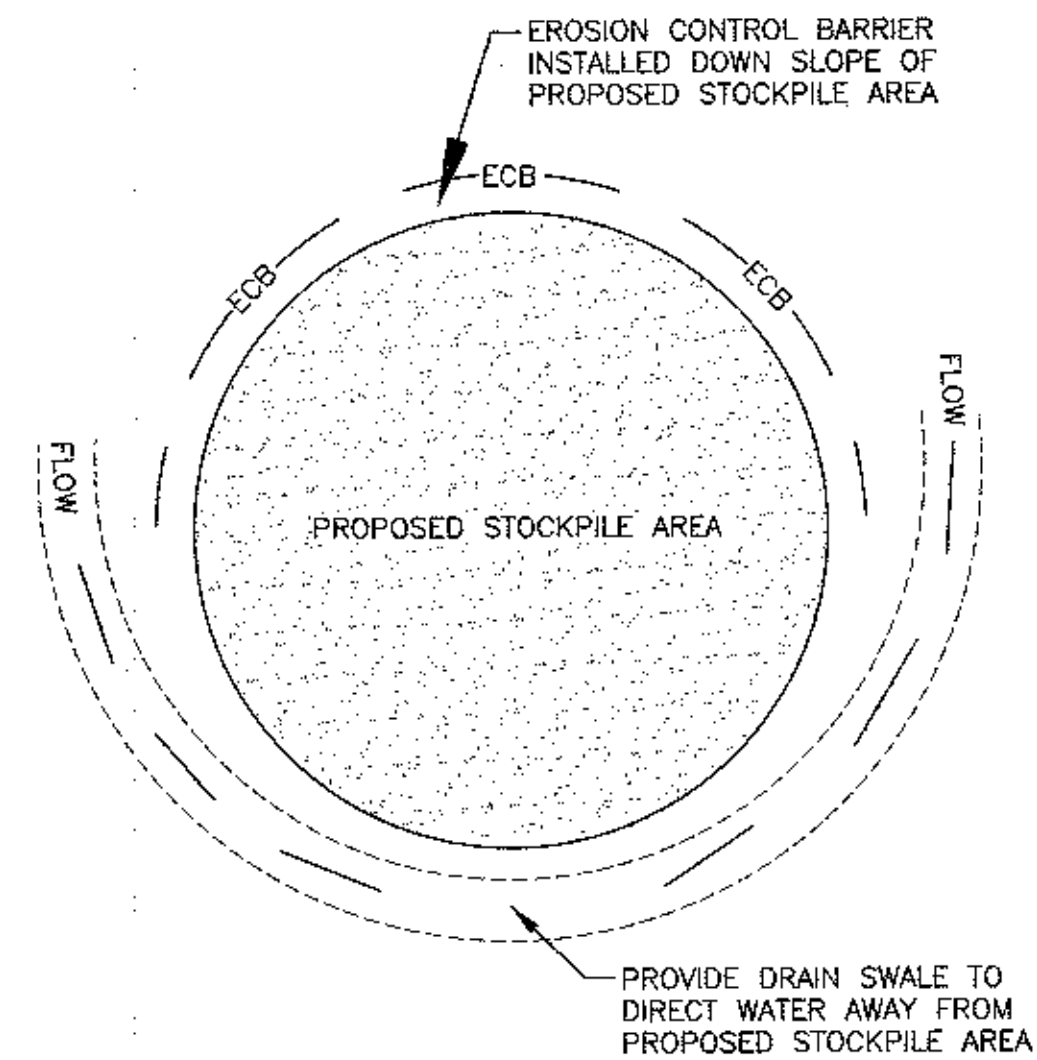
1. USE #2 STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - AS REQUIRED BUT NOT LESS THAN 50 FEET.
3. DEPTH - NOT LESS THAN 6 INCHES.
4. WIDTH - 30 FEET MIN, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. ALL SURFACE WATER FLOWING OR DIVERTED TOWARDS CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT TRACKED, SPILLED, DROPPED, OR WASHED ONTO PUBLIC RIGHT-OF-WAY SHALL BE REMOVED IMMEDIATELY.
8. WHEELS SHALL BE WASHED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND REQUIRED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

### STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

## EROSION CONTROL NOTES

1. SILT CONTROL SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND SHALL BE ADEQUATE TO MAINTAIN SEDIMENT ON SITE. ANY MODIFICATIONS TO SILT CONTROLS SHOWN ON THE APPROVED PLANS AS A RESULT OF ACTUAL FIELD CONDITIONS OR CONSTRUCTION PRACTICES SHALL BE INSTALLED IN ACCORDANCE WITH B.M.P. (BEST MANAGEMENT PRACTICES) PER THE E.P.A. 1992 "STORMWATER MANAGEMENT FOR CONSTRUCTION ACTIVITIES" MANUAL. ANY SUCH MODIFICATIONS SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER.
2. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED DURING CONSTRUCTION, AND SHALL REMAIN IN PLACE UNTIL ALL SITE WORK IS COMPLETE AND GROUND COVER IS ESTABLISHED.
3. STOCKPILES SHALL BE SURROUNDED ON THEIR PERIMETERS WITH STAKED HAY BALES AND/OR SILT FENCES TO PREVENT AND/OR CONTROL SILTATION AND EROSION.
4. TOPS OF STOCKPILES SHALL BE COVERED IN A SUCH MANNER THAT STORMWATER DOES NOT INFILTRATE THE MATERIALS AND THEREBY RENDER THE SAME UNSUITABLE FOR FILL USE.
5. ALL DISTURBED OR EXPOSED AREAS SUBJECT TO EROSION SHALL BE STABILIZED WITH MULCH OR SEEDED FOR TEMPORARY VEGETATIVE COVER. NO AREA SUBJECT TO EROSION SHALL BE LEFT DISTURBED AND UNSTABILIZED FOR PERIODS LONGER THAN IS ABSOLUTELY NECESSARY TO CARRY OUT THAT PORTION OF THE CONSTRUCTION WORK OR SIX MONTHS AFTER SOIL HAS BEEN DISTURBED WHICHEVER IS LESS.
6. CULVERT/PIPE INLETS AND OUTFALLS SHALL BE PROTECTED BY HAY BALE FILTERS UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED.
7. ALL EROSION CONTROL MEASURES SHALL BE ROUTINELY INSPECTED, CLEANED AND REPAIRED OR REPLACED AS NECESSARY THROUGHOUT ALL PHASES OF CONSTRUCTION. IN ADDITION, INSPECTION SHALL TAKE PLACE AFTER EACH RAINFALL EVENT.
8. ALL PROPOSED SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED WITH JUTE MESH AND PROTECTED FROM EROSION.
9. THE CONTRACTOR SHALL KEEP ON SITE AT ALL TIMES ADDITIONAL HAY BALES AND EXTRA SILTATION FENCING FOR INSTALLATION AT THE DIRECTION OF THE ENGINEER OR THE PERMITTING AUTHORITIES TO MITIGATE ANY EMERGENCY CONDITION.

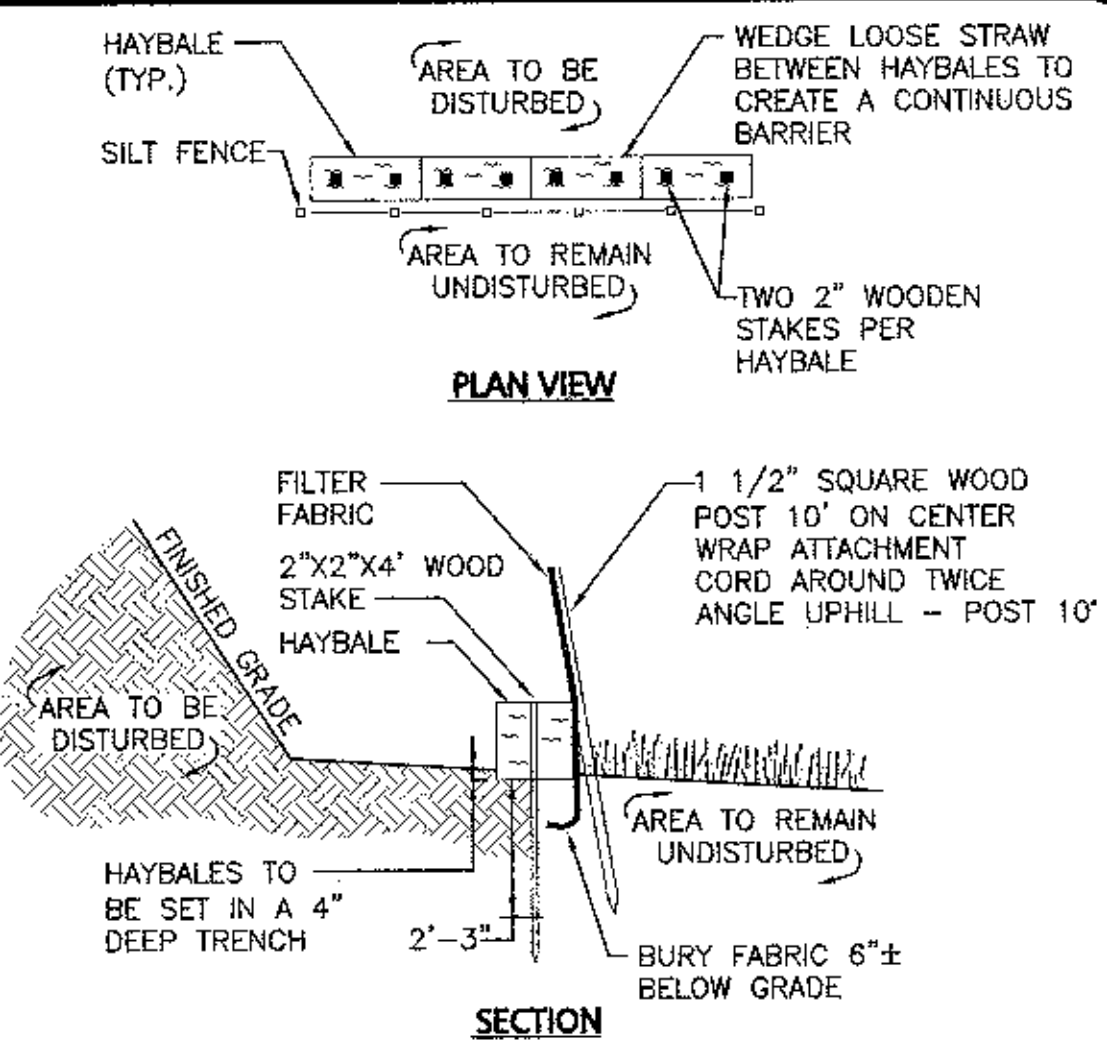


### NOTES:

1. SOIL AND FILL STOCKPILES EXPECTED TO REMAIN IN PLACE FOR LESS THAN 90 DAYS SHALL BE COVERED WITH HAY AND MULCH (AT 100LB/1,000 SF), 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 SEEDED 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

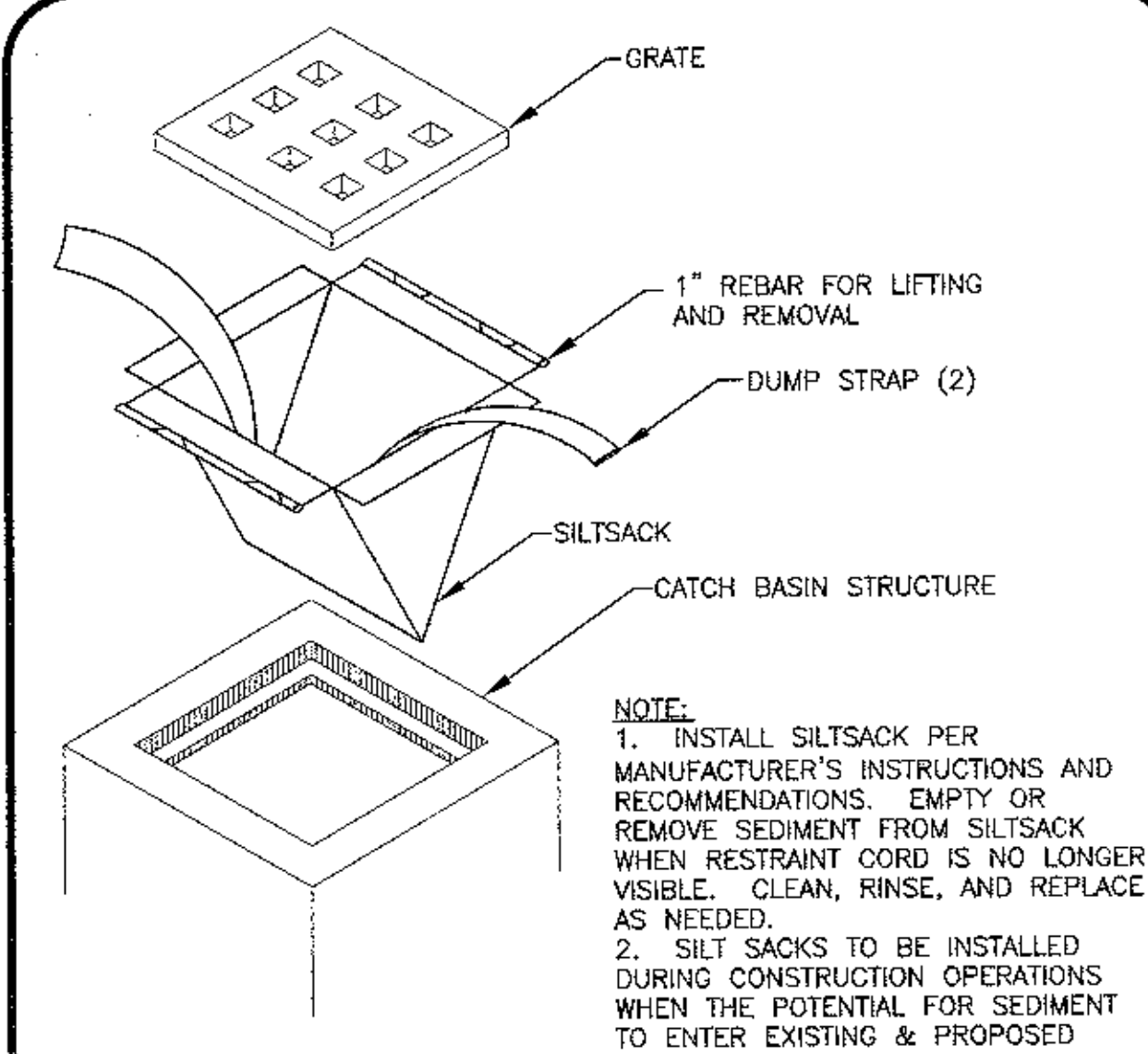
NOT TO SCALE



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

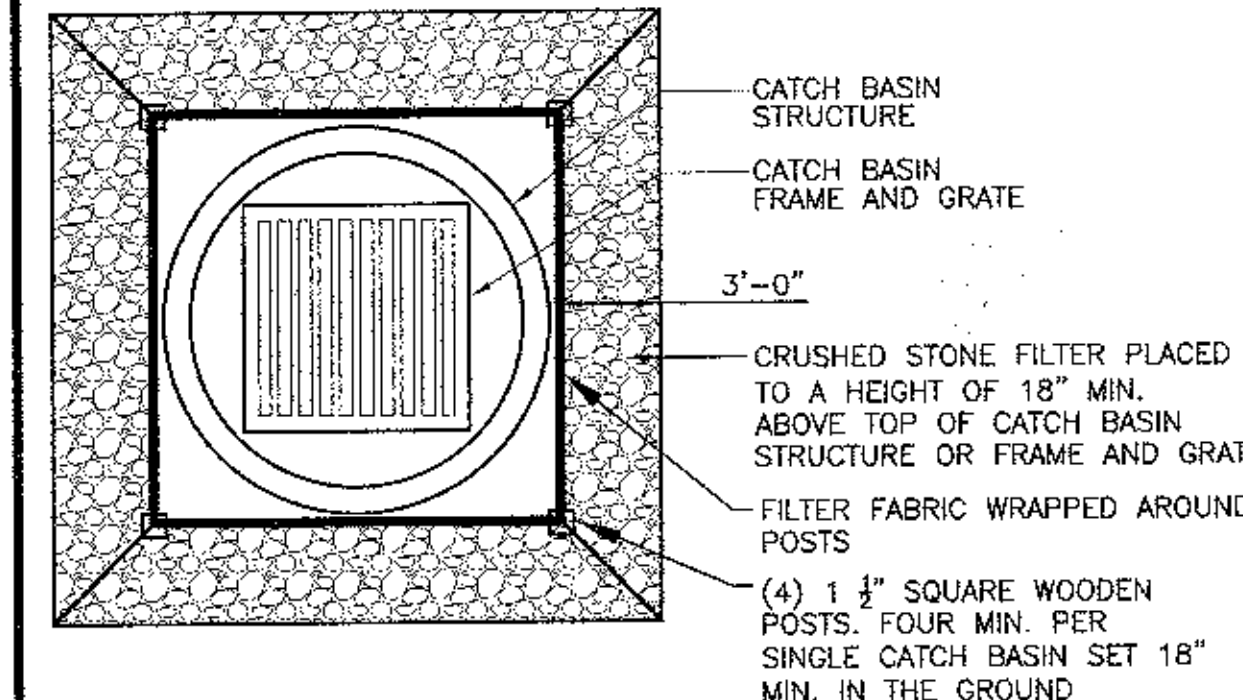
### SILT FENCE AND HAYBALE DETAIL

NOT TO SCALE



### SILTSACK INLET DETAIL

NOT TO SCALE



### NOTES:

1. INSPECT WEEKLY OR AFTER EACH 1/2" OF RAINFALL AND REPAIR OR REPLACEMENT OF STONE AND FILTER FABRIC SHALL BE MADE PROMPTLY IF DAMAGED OR AS DIRECTED.
2. CONTRACTOR SHALL REMOVE SEDIMENT ACCUMULATION ONCE IT REACHES A DEPTH OF 6" MAX.

### CRUSHED STONE CATCH BASIN INLET PROTECTION

NOT TO SCALE

## PETER QUINN ARCHITECTS

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COMMUNITY DESIGN

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CAMBRIDGE, MA 02140  
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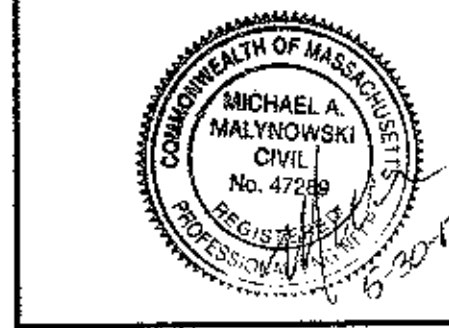
### SEAL

### CONSULTANT

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ASSOCIATES, INC.

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MANCHESTER, NH 03101  
TEL: (603) 627-3560 FAX: (603) 627-3561  
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### SEAL



### PROJECT

CUSHING VILLAGE  
CUSHING SQUARE  
BELMONT, MA

### PREPARED FOR



6 LITTLEFIELD ROAD  
ACTON, MA 01710

### DRAWING TITLE

## DETAILS

### SCALE AS NOTED

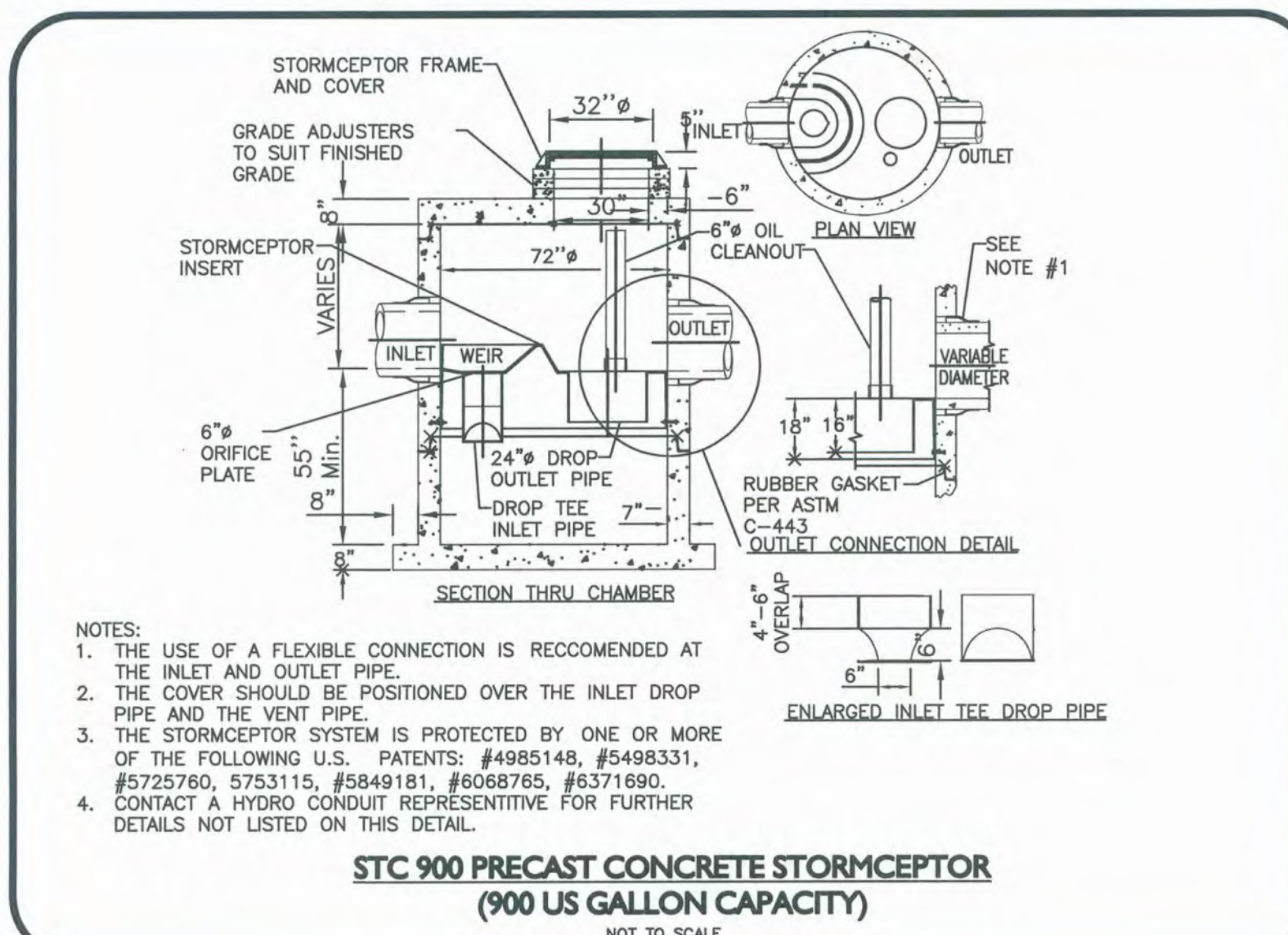
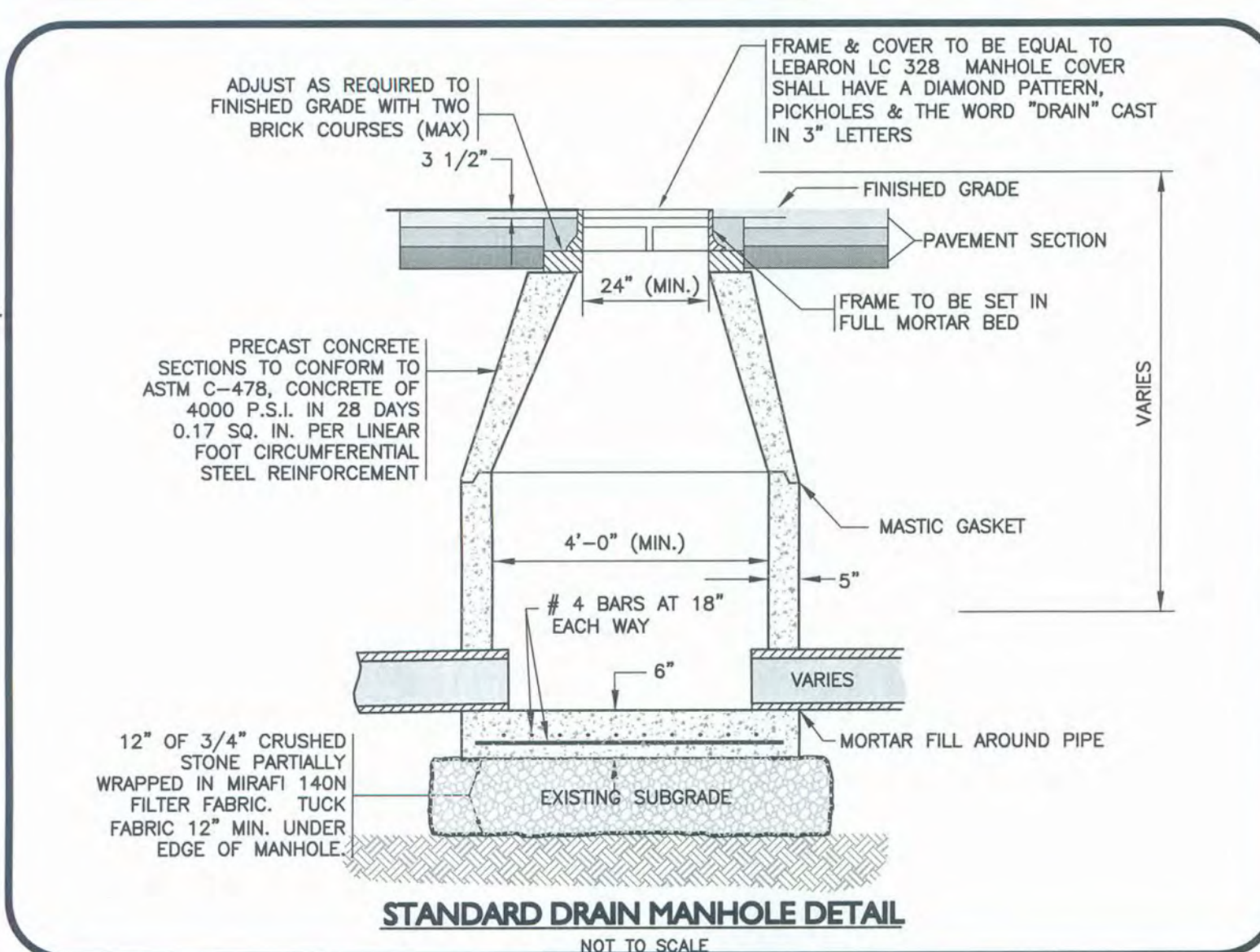
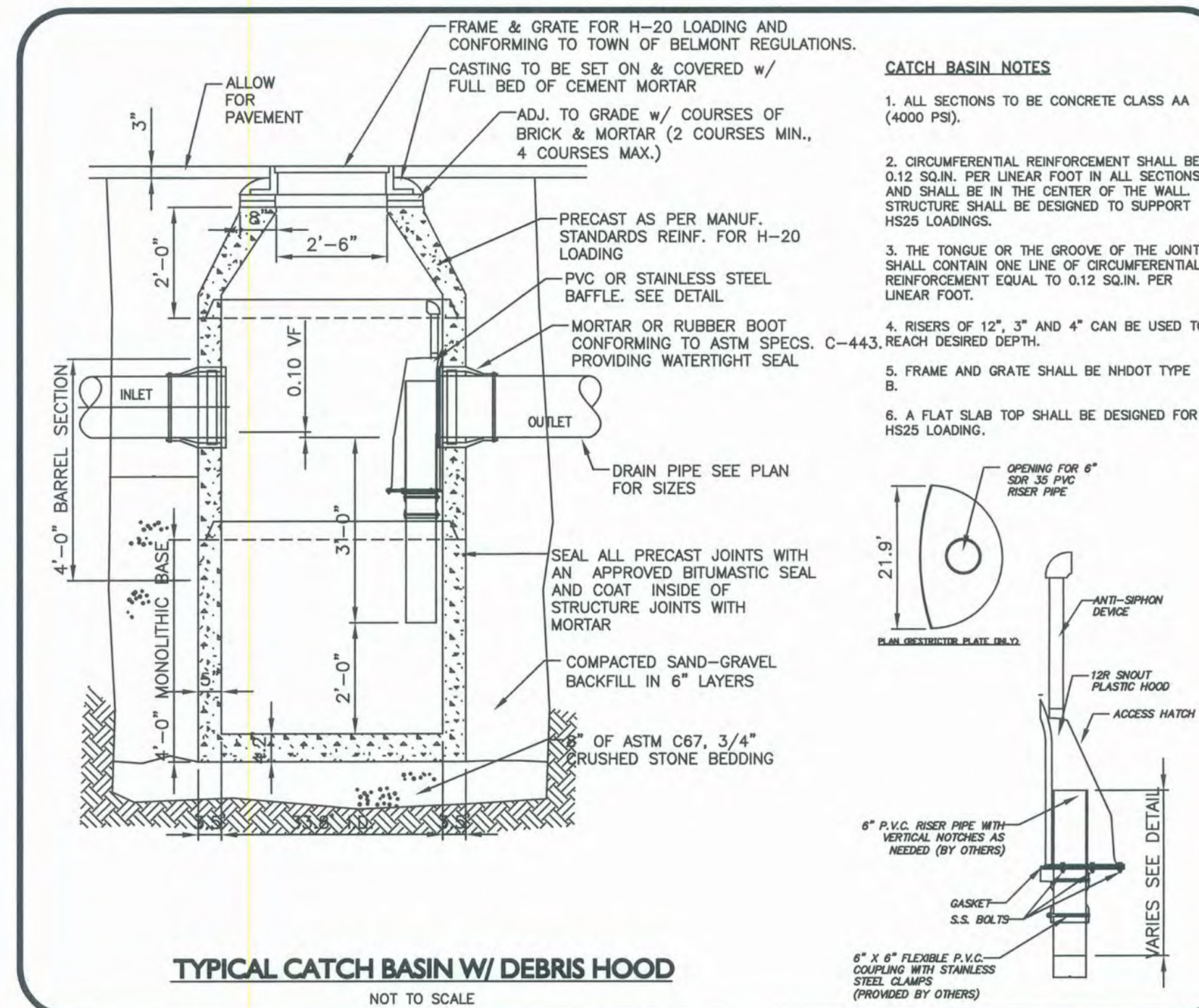
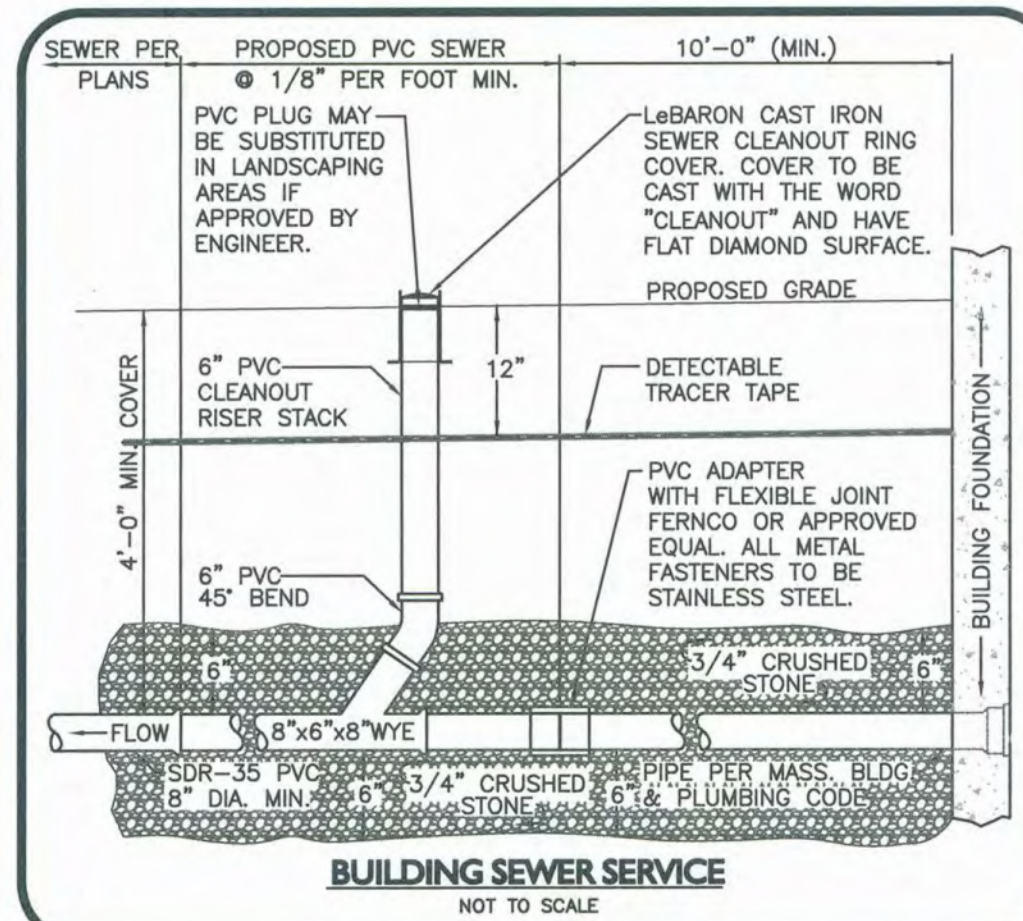
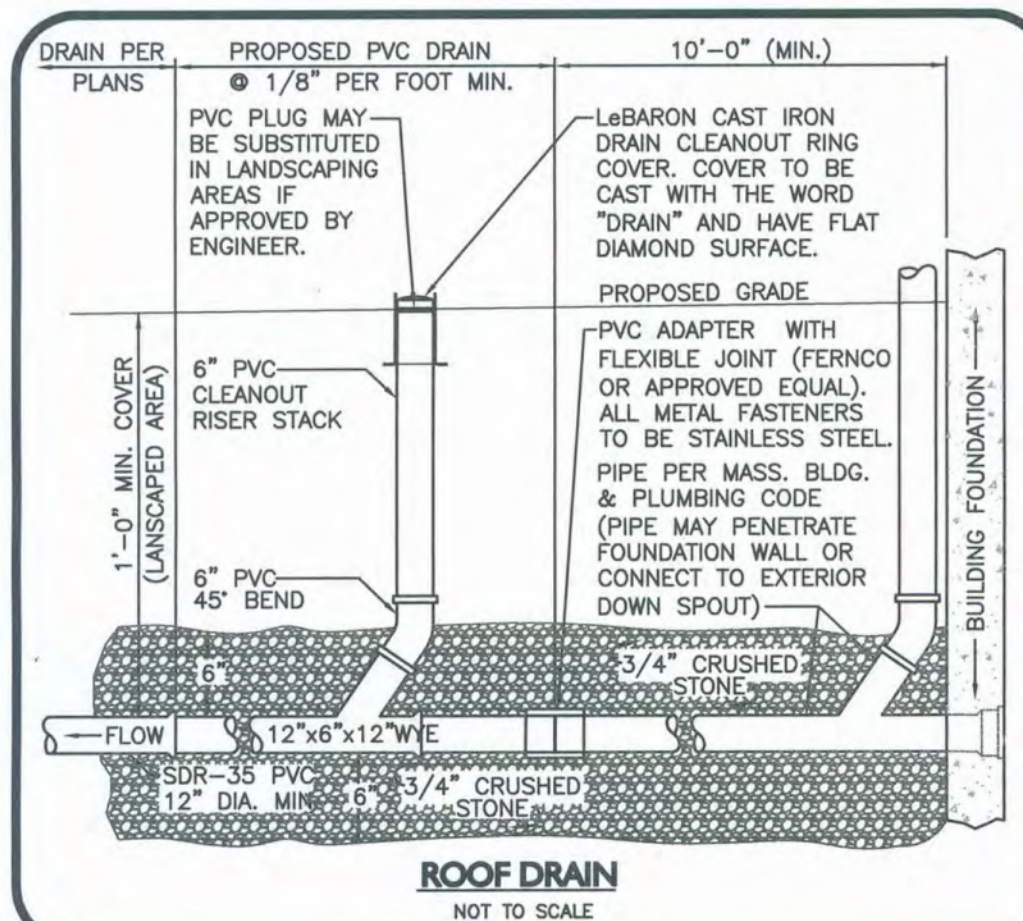
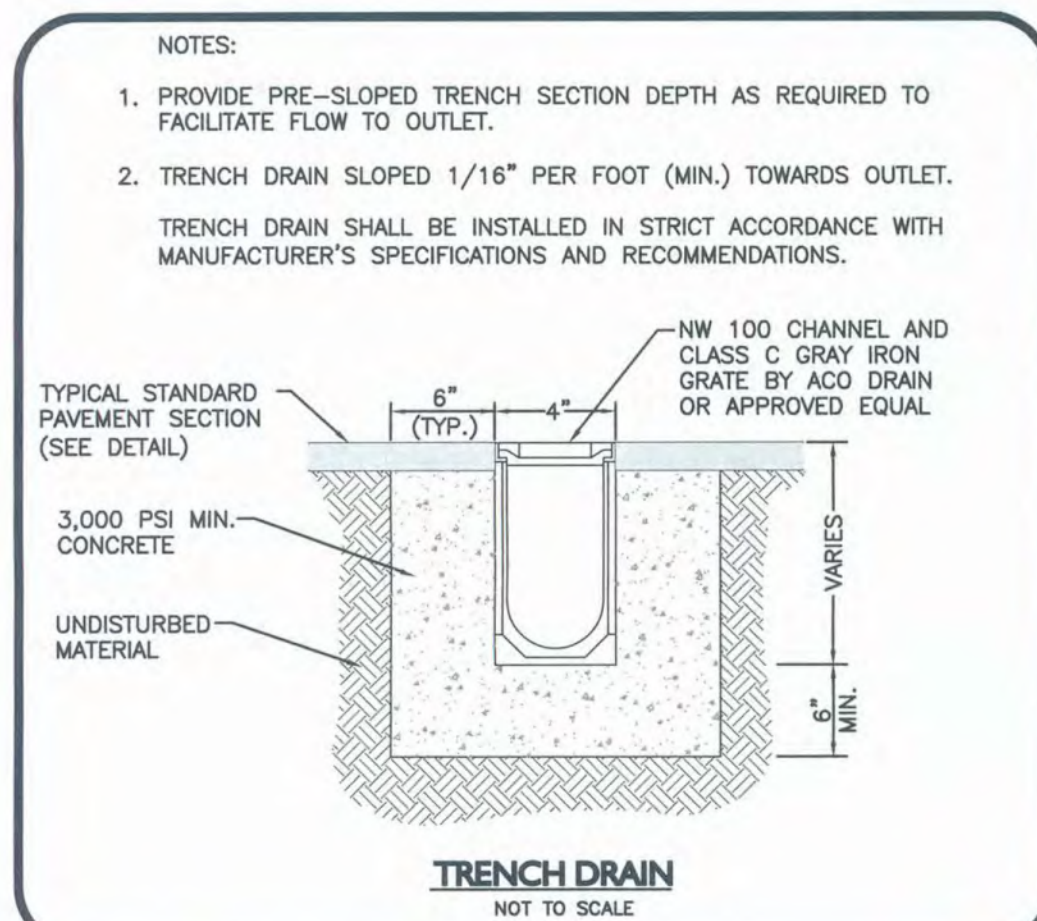
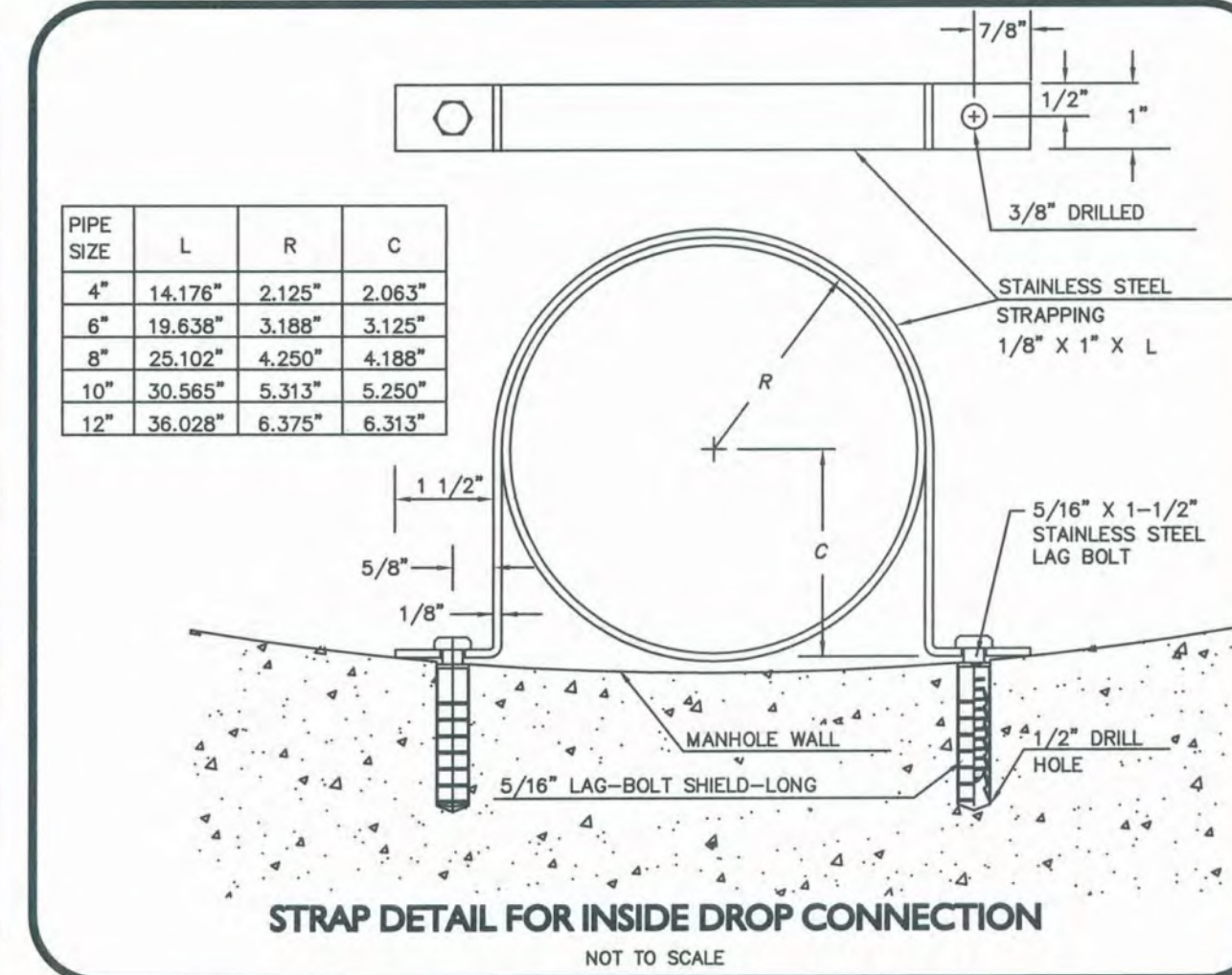
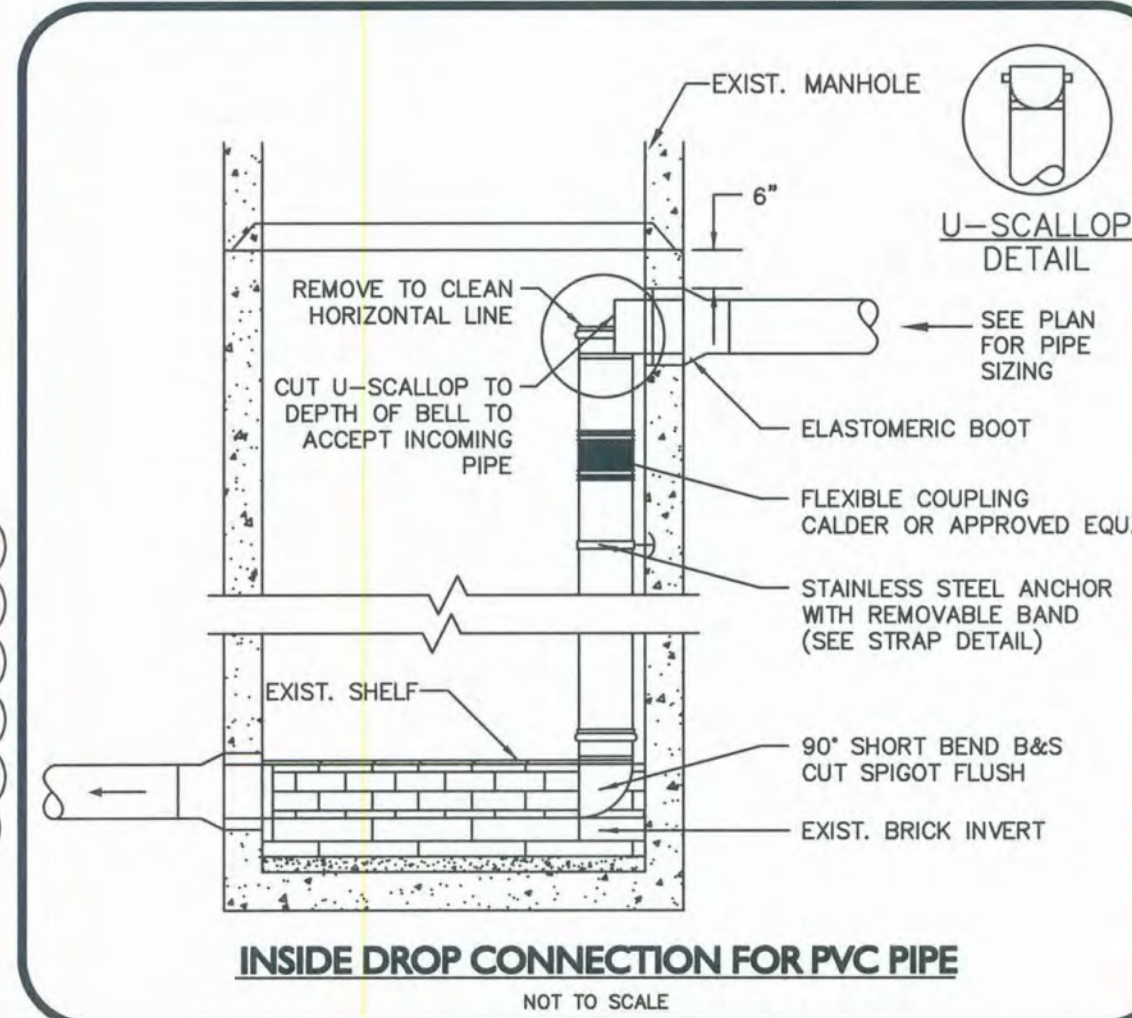
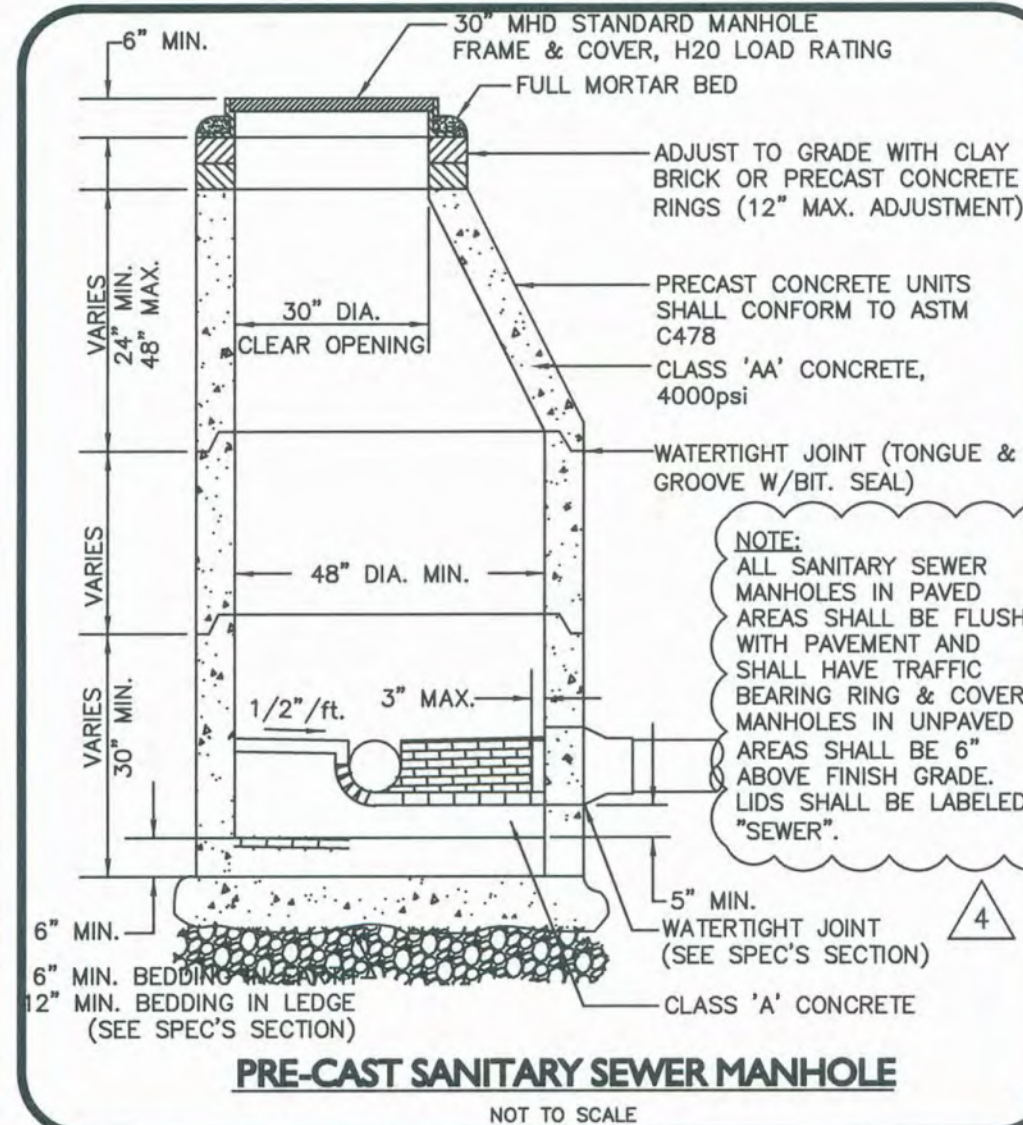
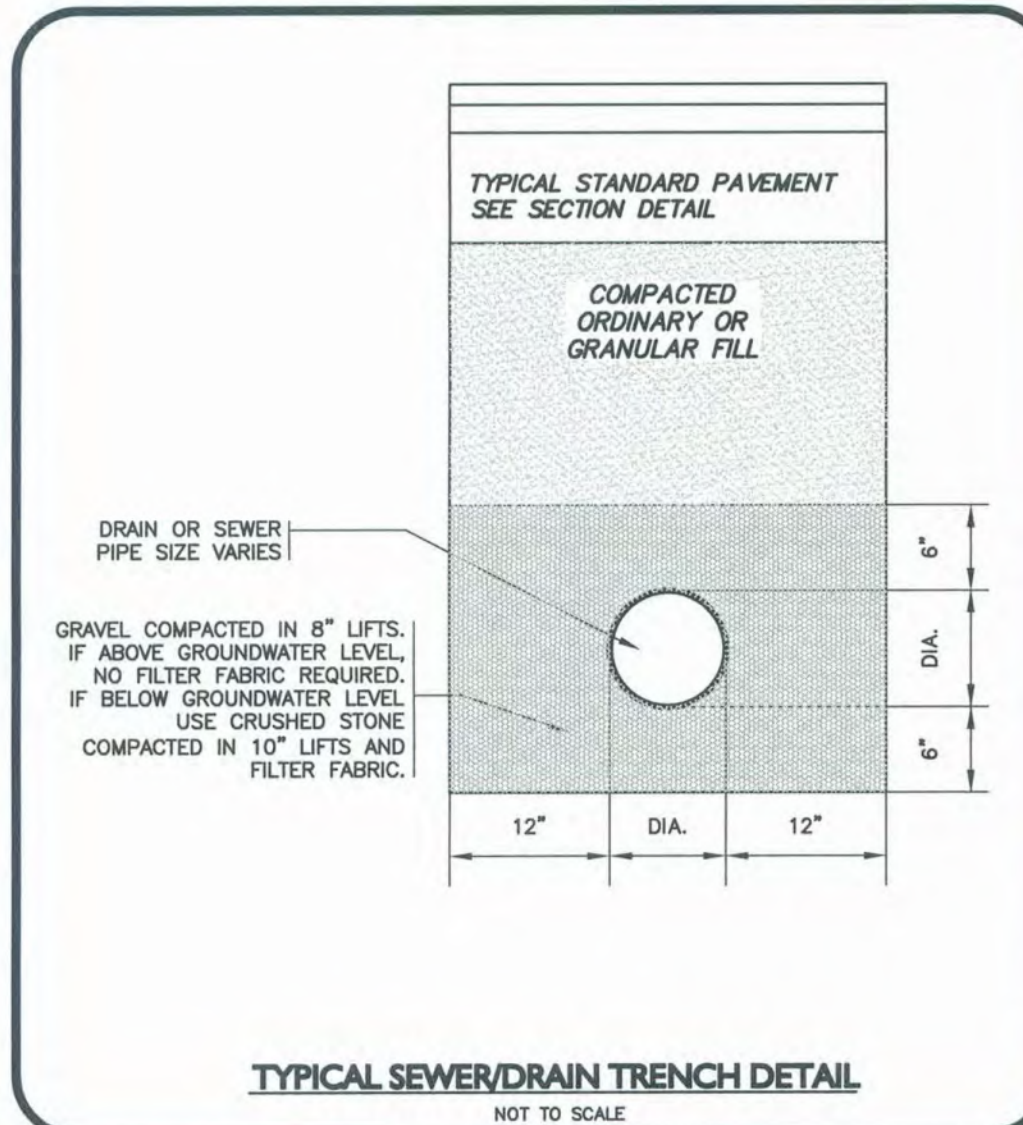
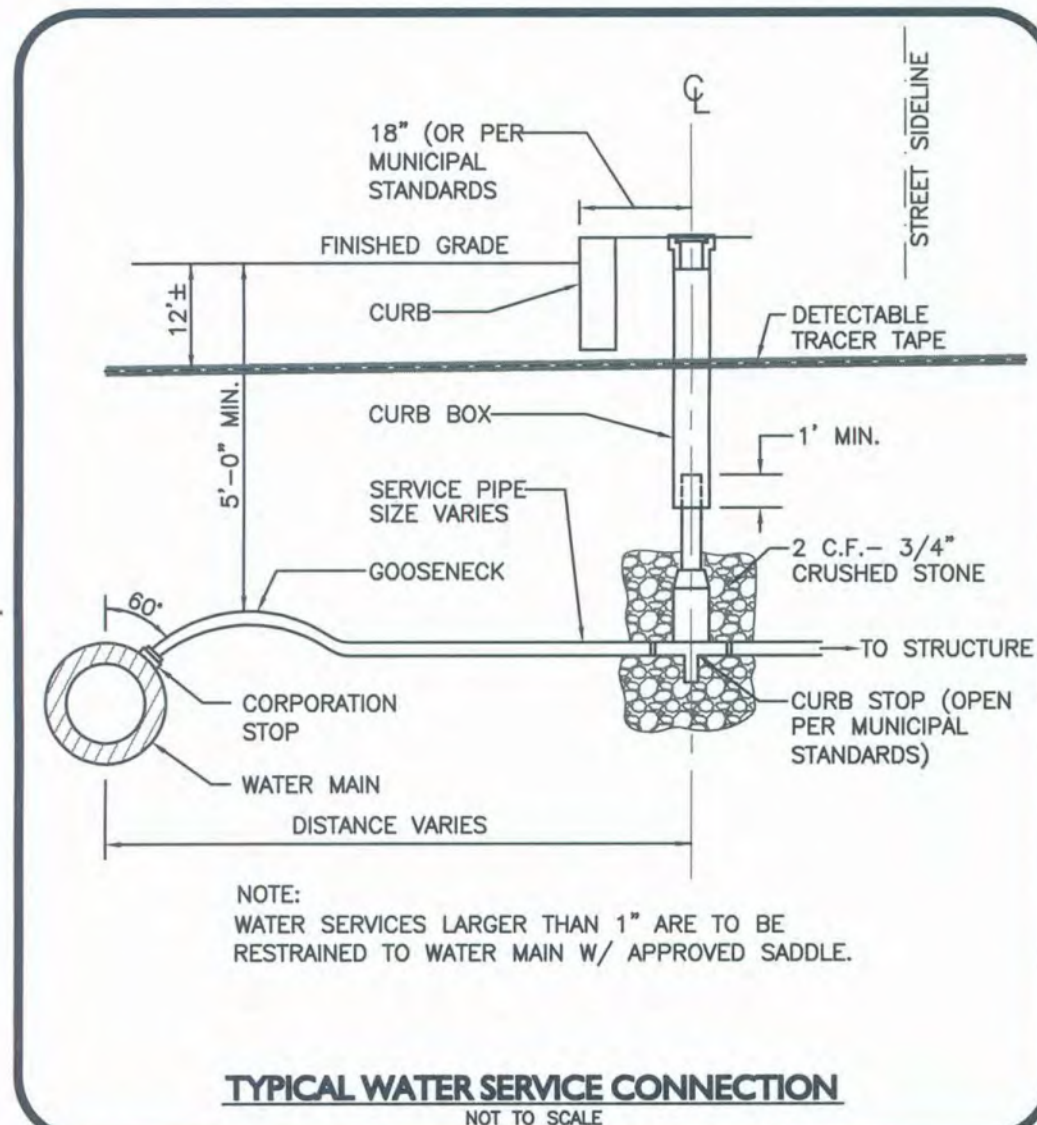
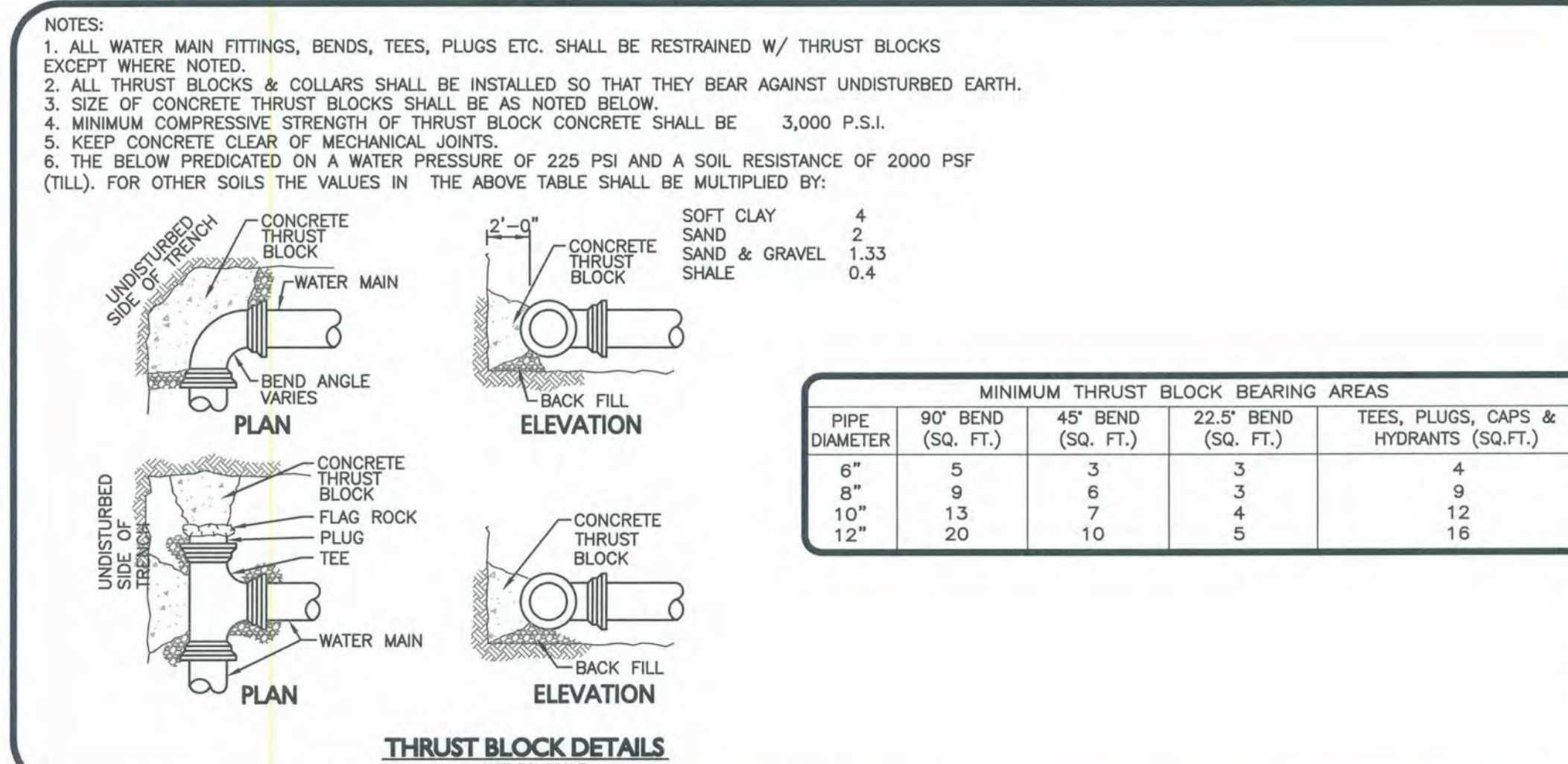
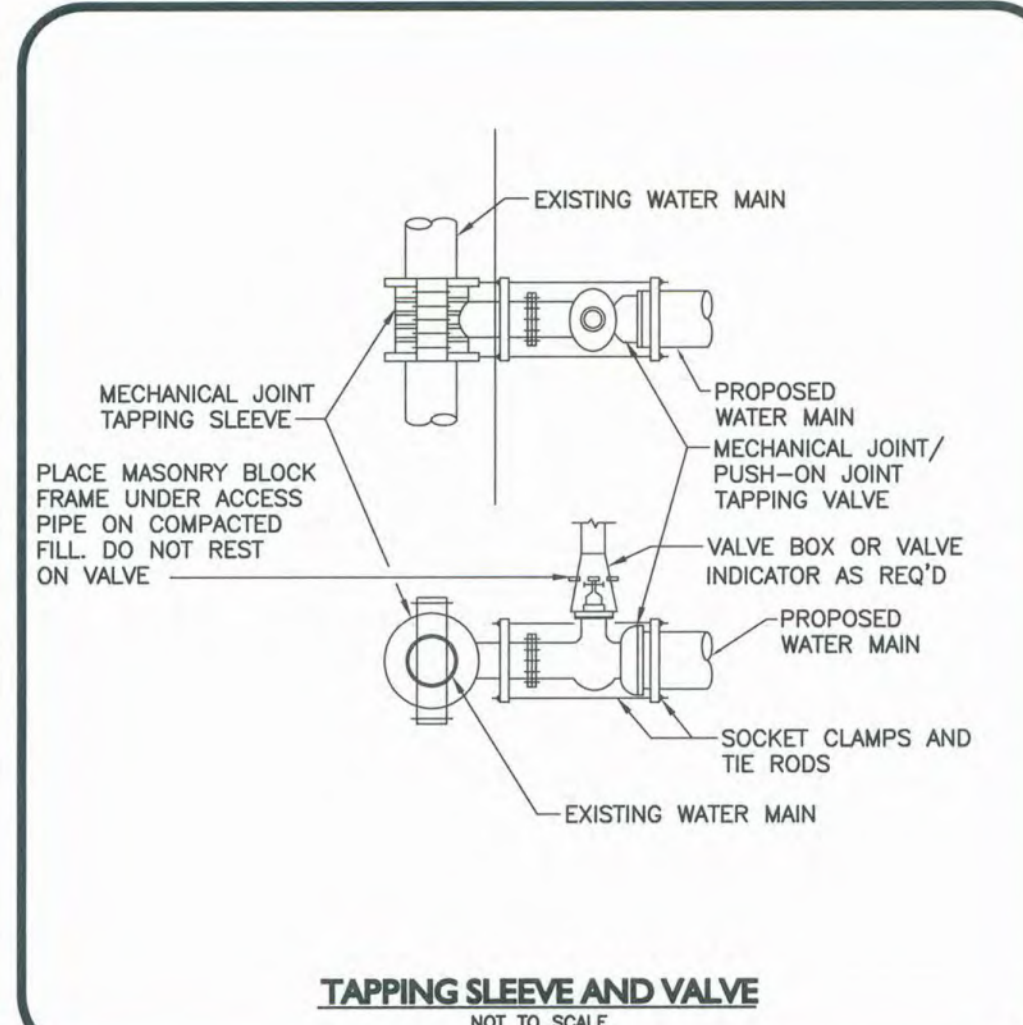
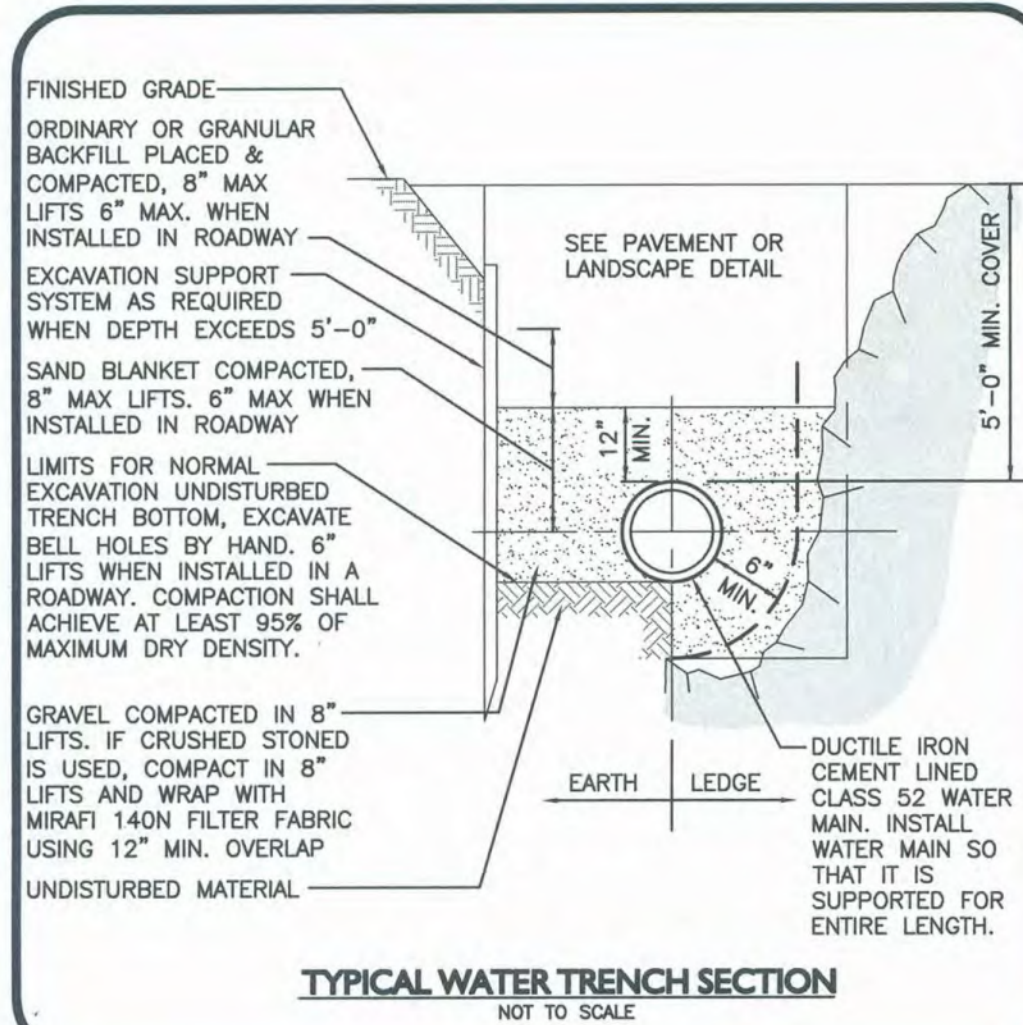
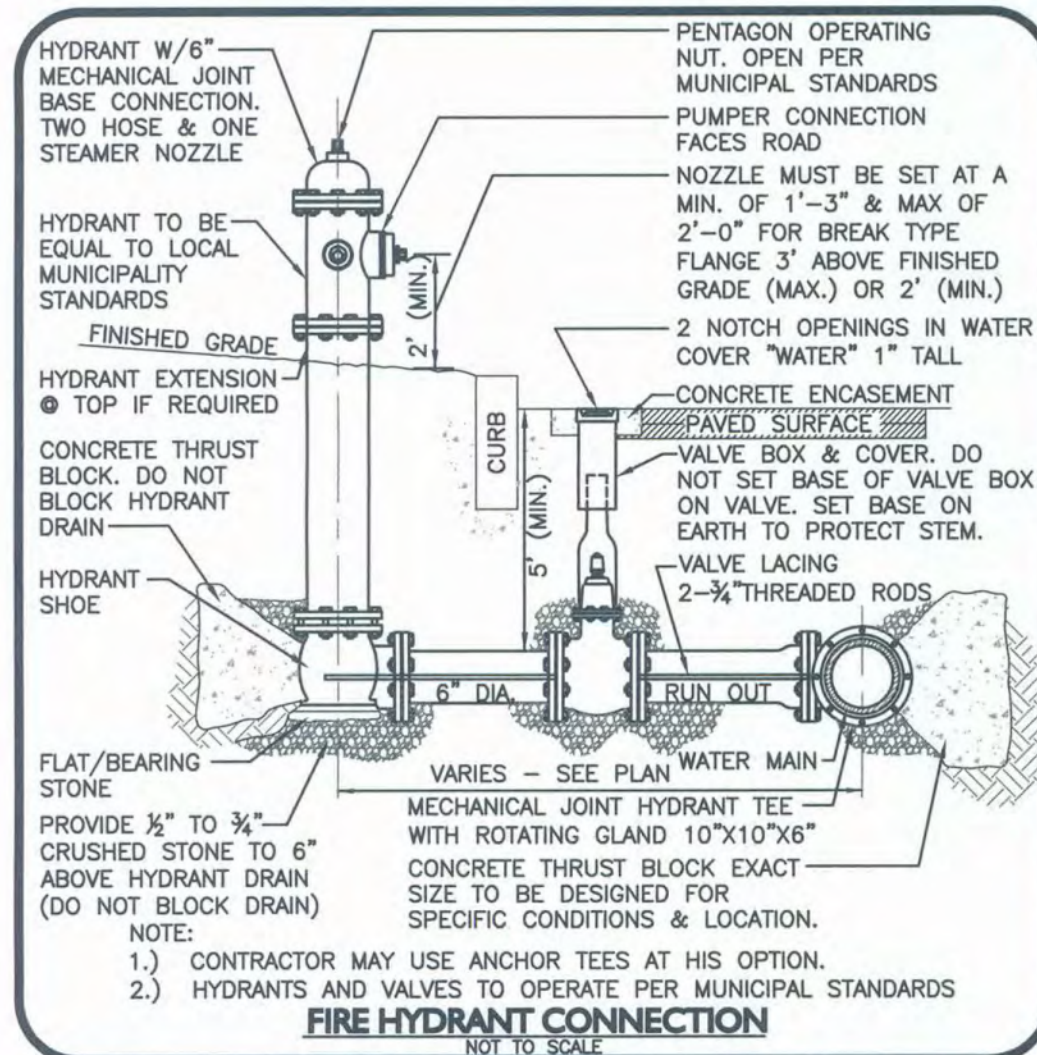
### REVISION DATE

SP REV-4	07-11-13
SP REV-2	05-31-13
MISC. UPDATE PER PEER REVIEW	05-24-13
MISC. UPDATE PER PEER REVIEW	04-19-13
MISC. UPDATE	02-25-13
BLDG. UPDATE	NOV. 2012
DRAWN BY WL	REVIEWED BY MAM

### SHEET

# D.1





ARCHITECTURE  
PLANNING  
COMMUNITY DESIGN

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SEAL



PROJECT

CUSHING VILLAGE  
CUSHING SQUARE  
BELMONT, MA

PREPARED FOR



6 LITTLEFIELD ROAD  
ACTON, MA 07120

*DRAWING TITLE*

## DETAILS

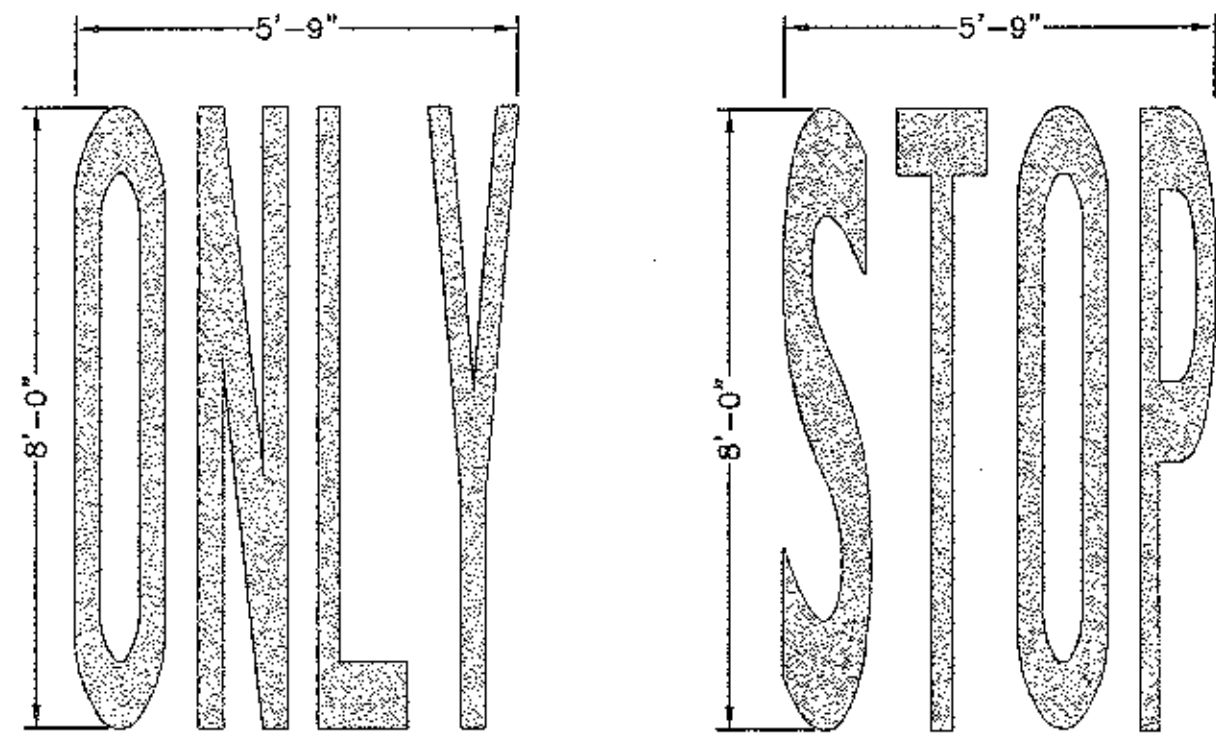
SCALE AS NOTED

REVISION	DATE
SP REV-4	07-11-13
SP REV-3C	06-18-13
SP REV-2	05-31-13
MISC. UPDATE PER PEER REVIEW	05-24-13
MISC. UPDATE PER PEER REVIEW	04-19-13
<i>DRAWN BY</i> WL	<i>REVIEWED BY</i> MAM

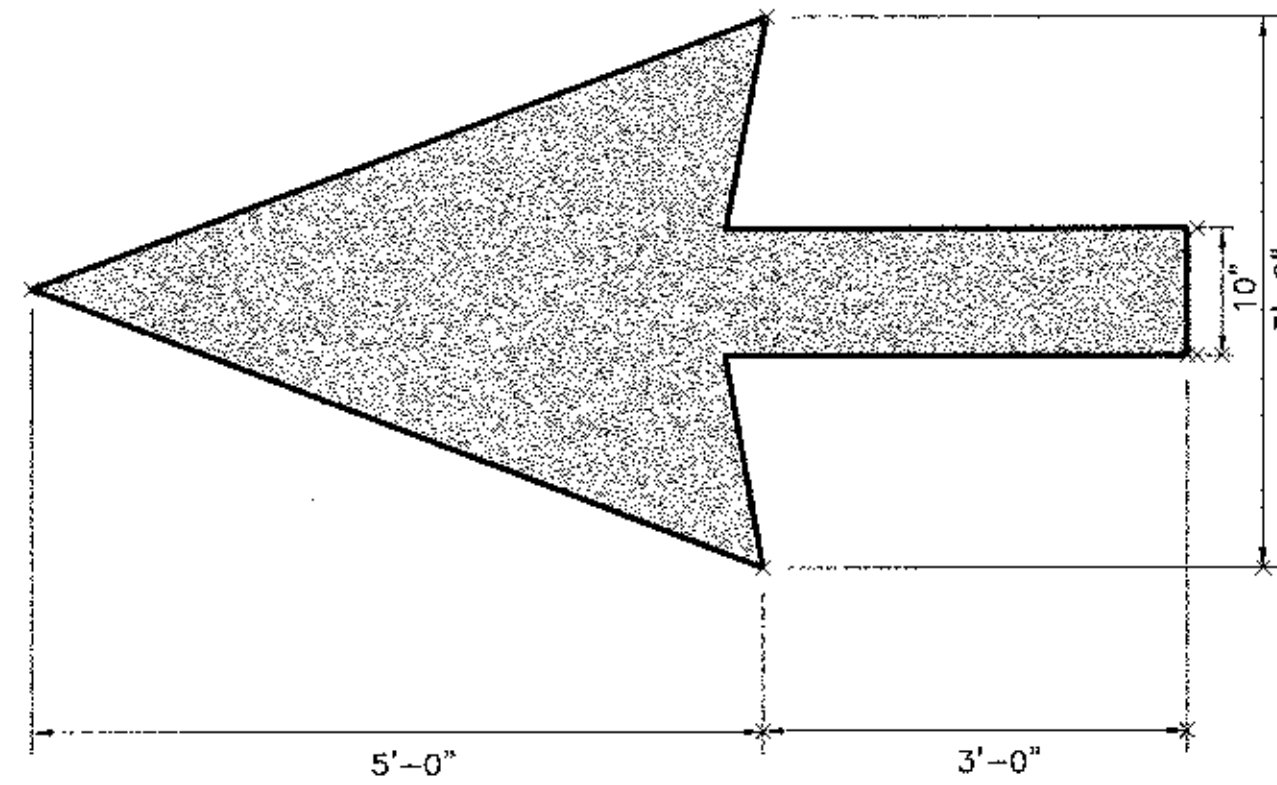
SHEET

## D.2

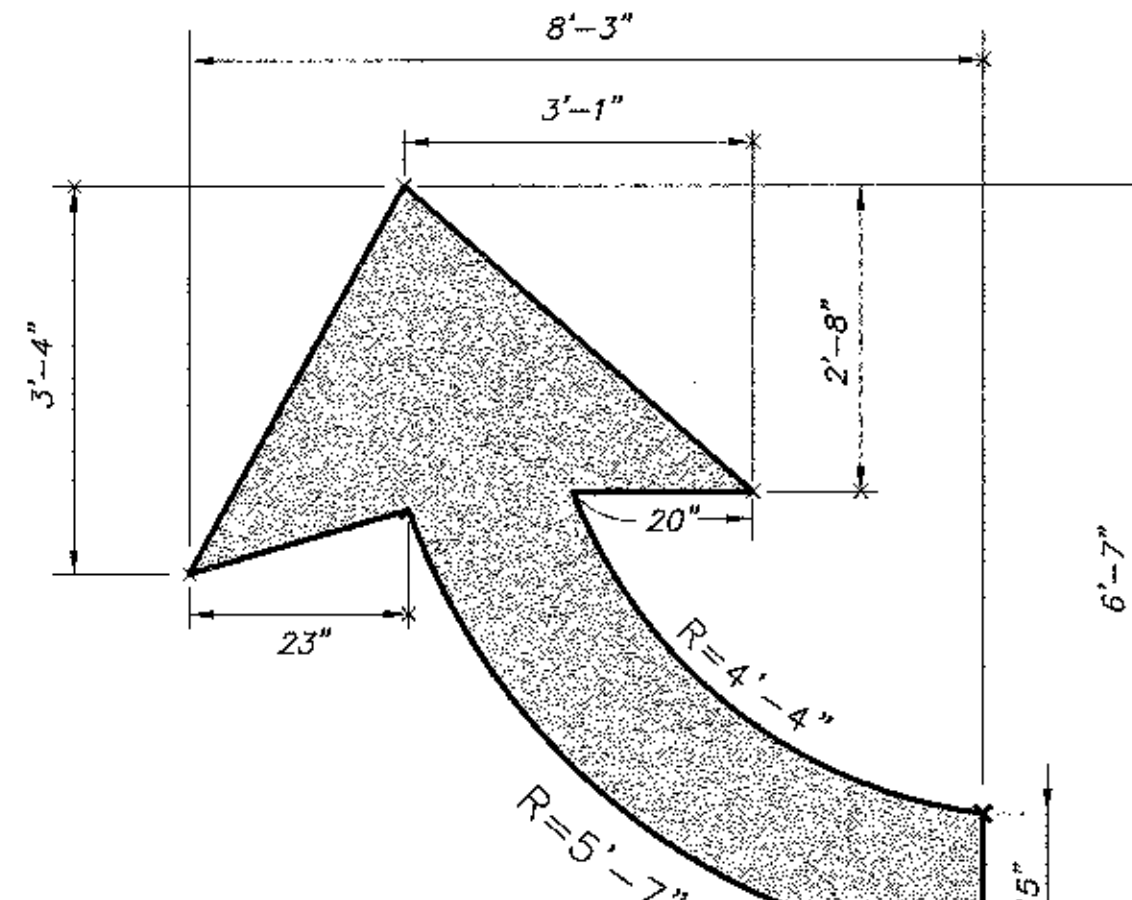




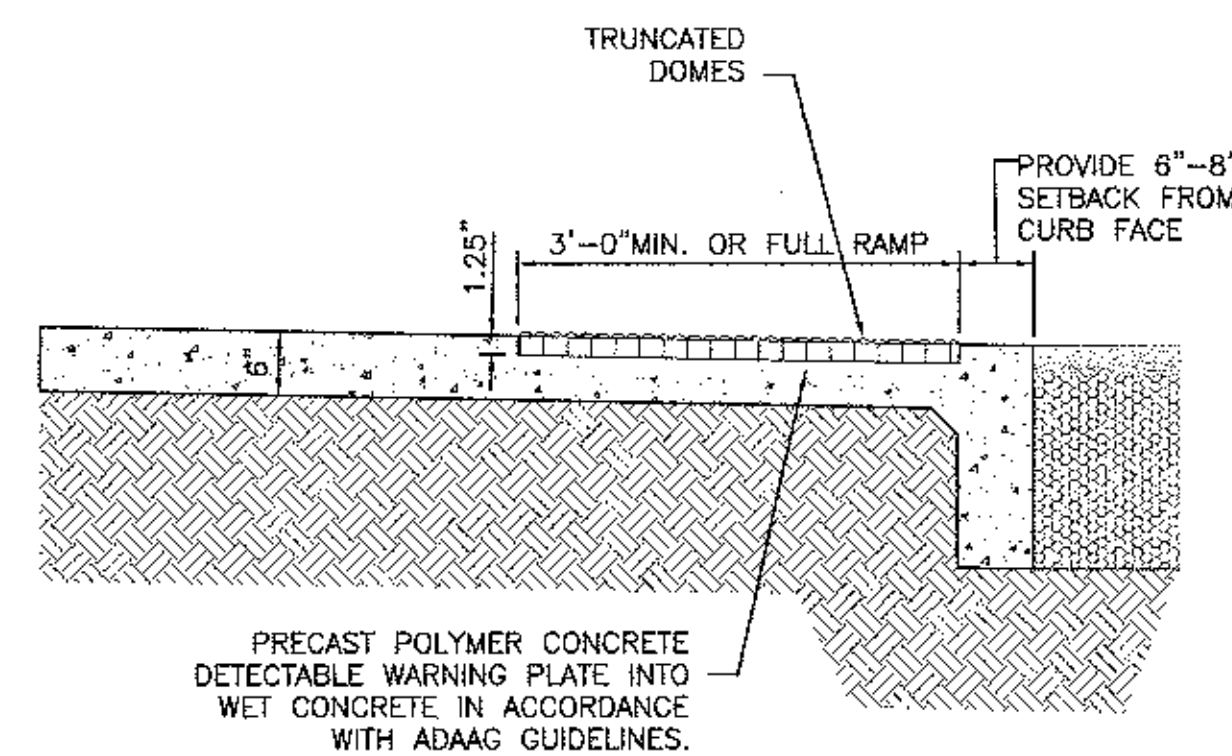
**WHITE THERMOPLASTIC LETTERING DETAIL**  
NOT TO SCALE



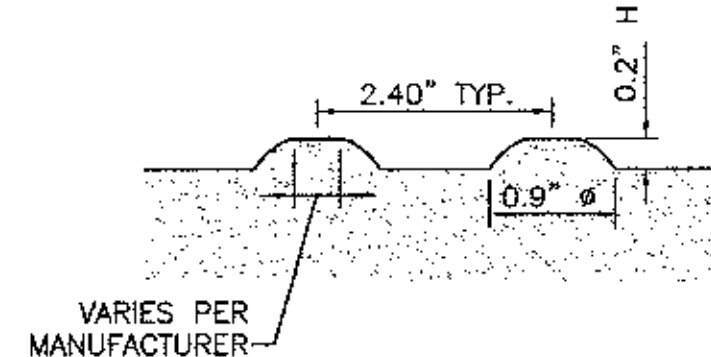
**WHITE THERMOPLASTIC STRAIGHT ARROW DETAIL**  
NOT TO SCALE



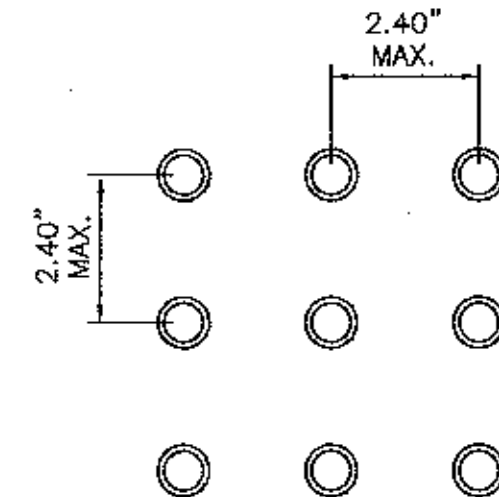
**WHITE THERMOPLASTIC TURNING ARROW**  
NOT TO SCALE



**SECTION AT CURB RAMP WITH ALTERNATE TRUNCATED PAVERS W/ DOMES**

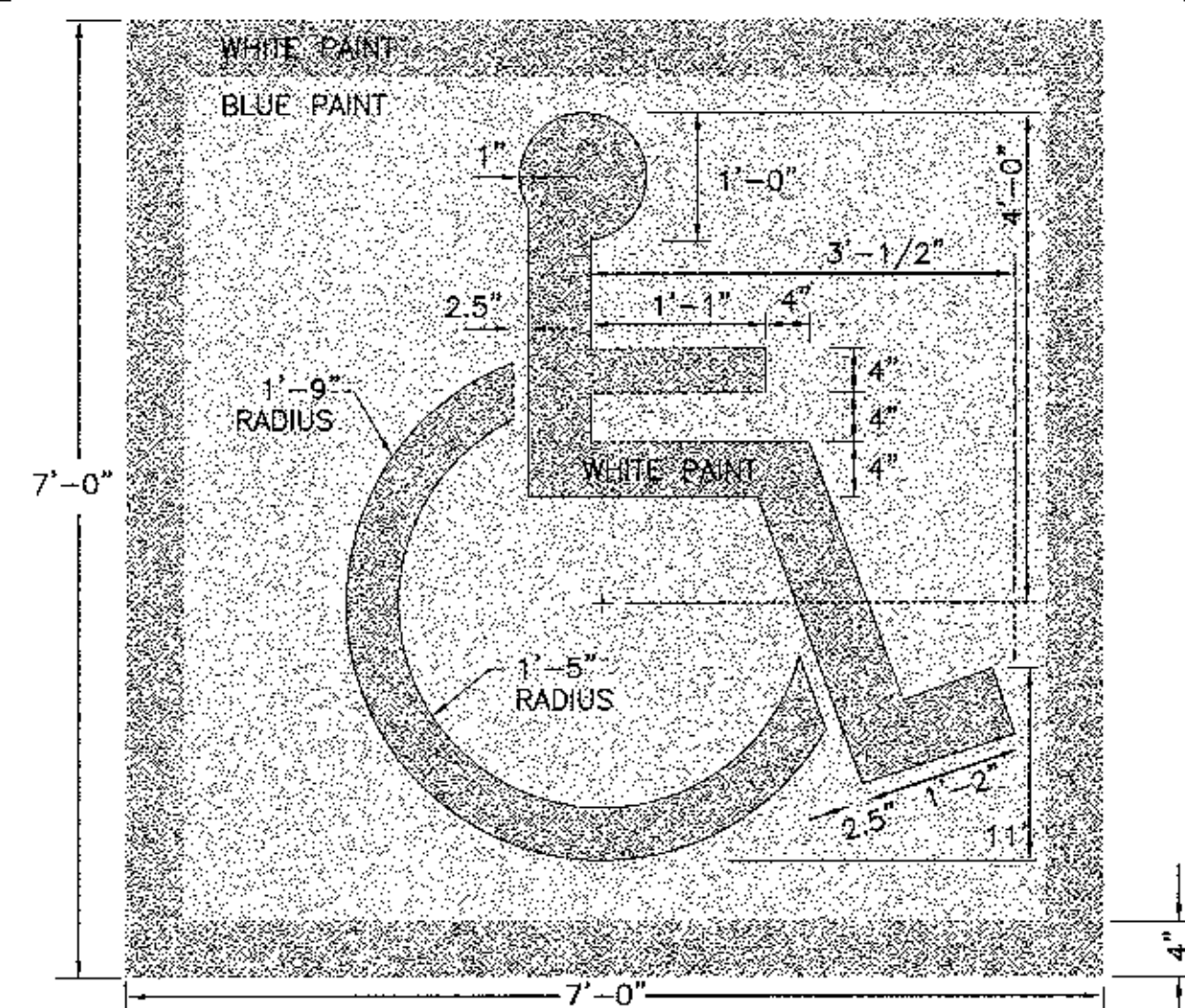


**SECTION OF "DOME STAMP" PATTERN IN SURFACE**



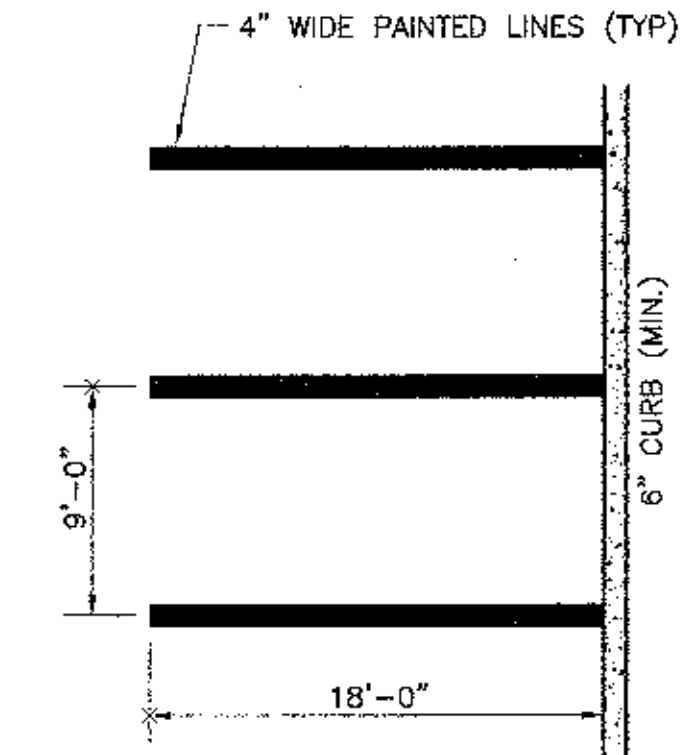
**PLAN OF "DOME STAMP" PATTERN IN SURFACE**

**CURB RAMP WITH ALTERNATE TRUNCATED DOME PAVERS DETAIL**  
NOT TO SCALE

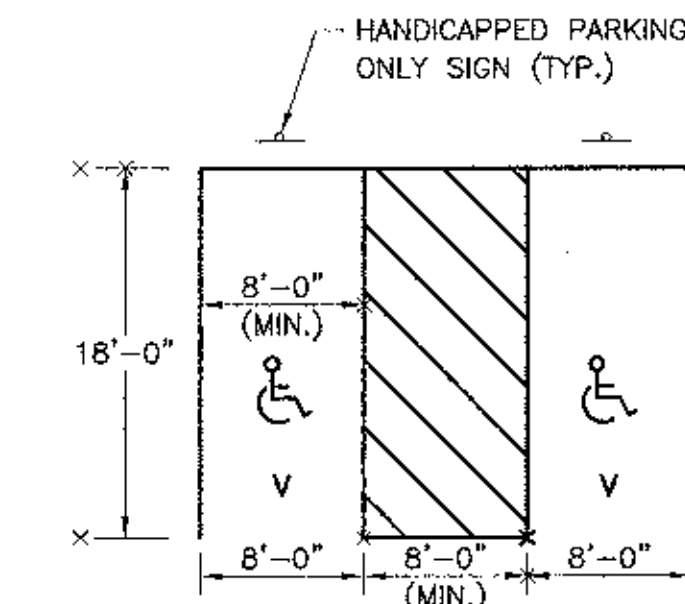


SYMBOL TO BE CENTERED ON WIDTH OF PARKING STALL. SYMBOL IS REQUIRED TO CONTRAST WITH BACKGROUND. USE WHITE ON BLUE (COLOR #105090 IN FEDERAL STANDARD 5952) DOUBLE COAT.

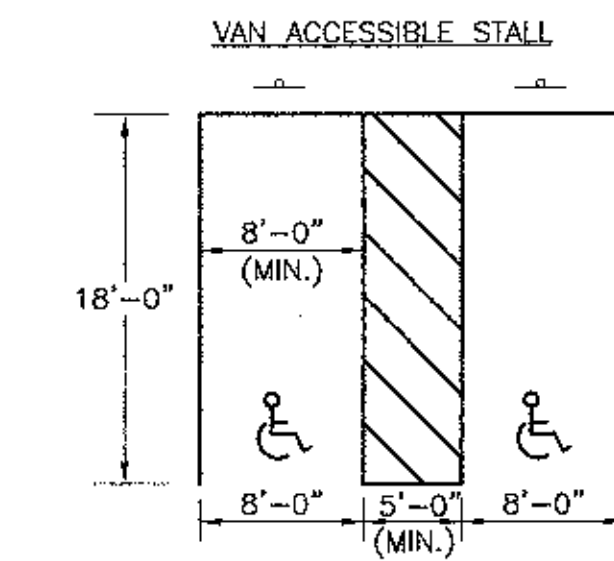
**ACCESSIBLE PARKING STALL PAVEMENT MARKING**  
NOT TO SCALE



**STANDARD STALL**

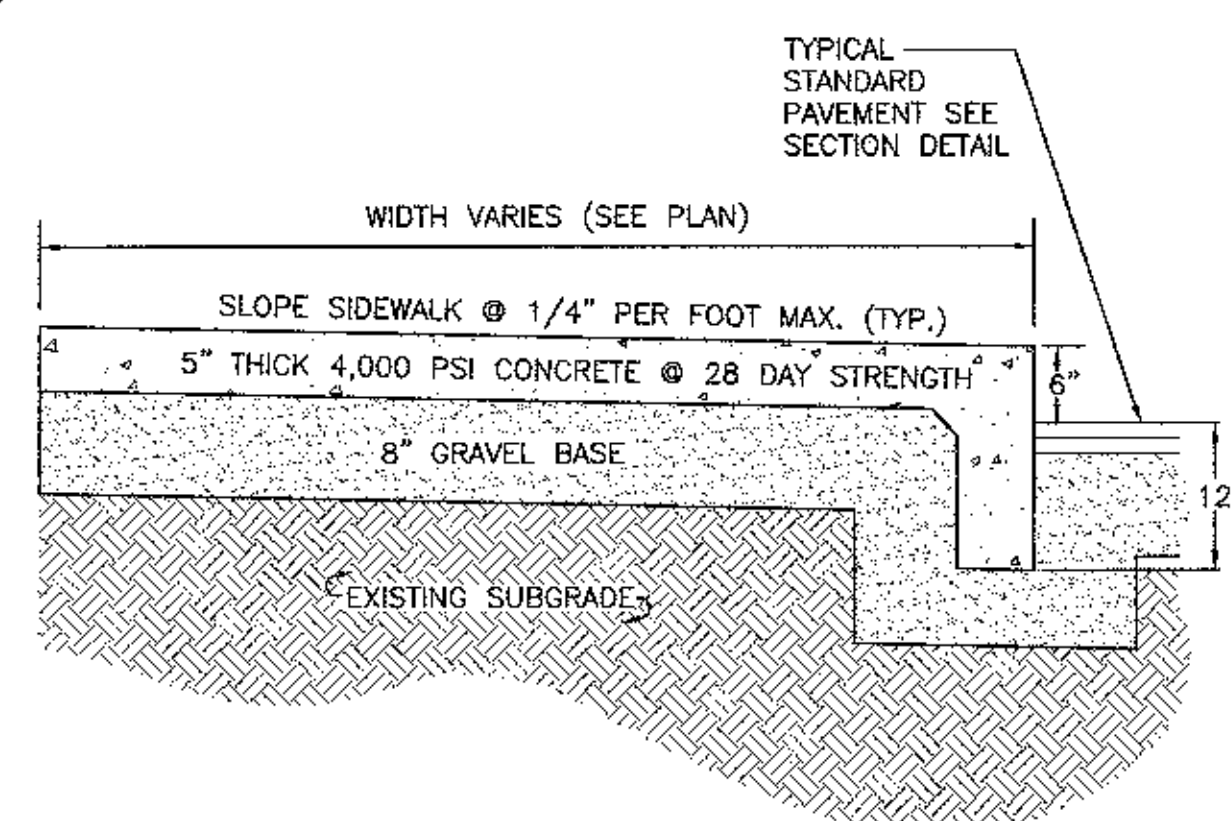


NOTE:  
1. "V" DENOTES A VAN ACCESSIBLE HANDICAPPED PARKING SPACE



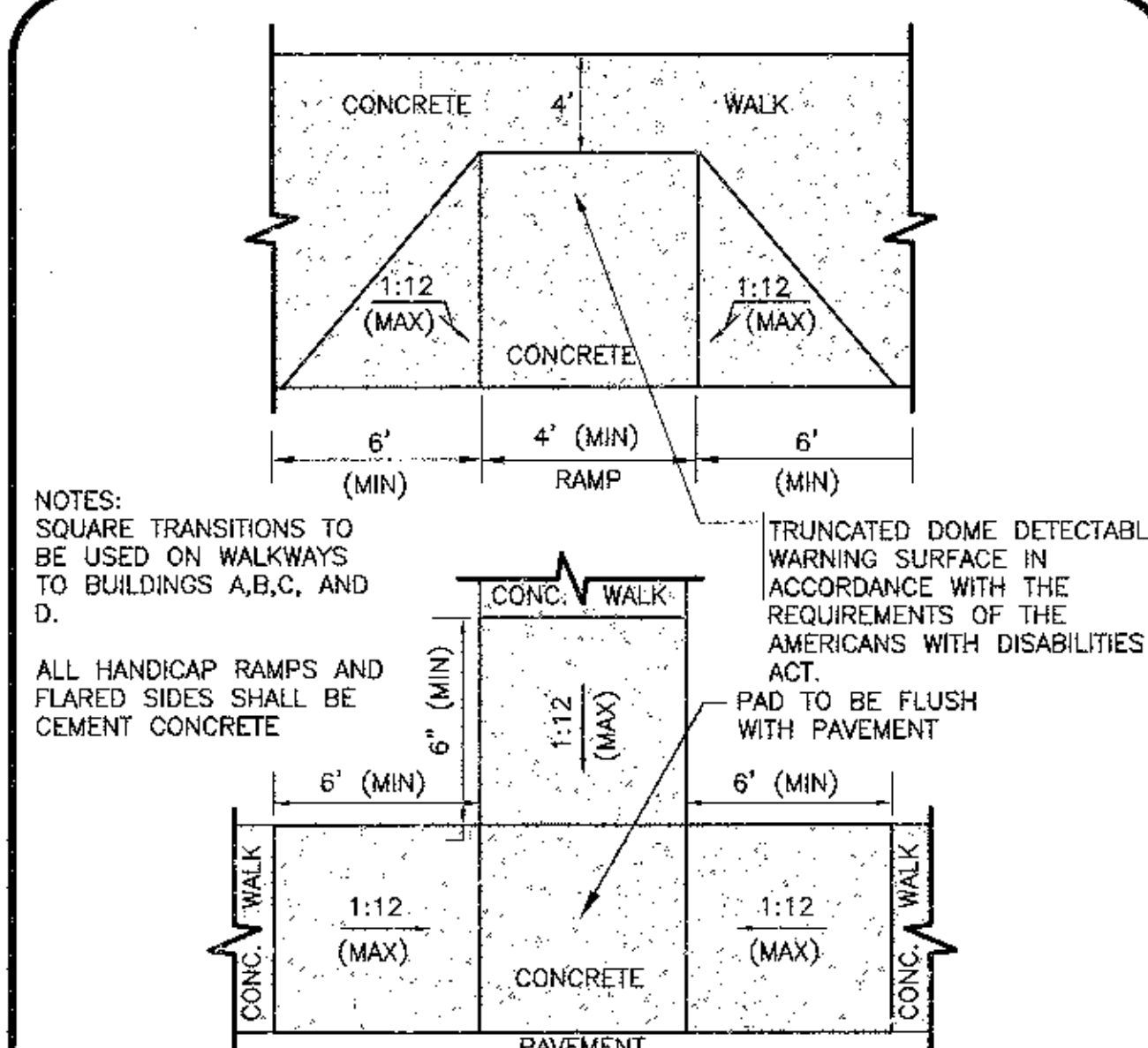
**VAN ACCESSIBLE STALL**

**HANDICAPPED AND STANDARD STALL DETAIL**  
NOT TO SCALE

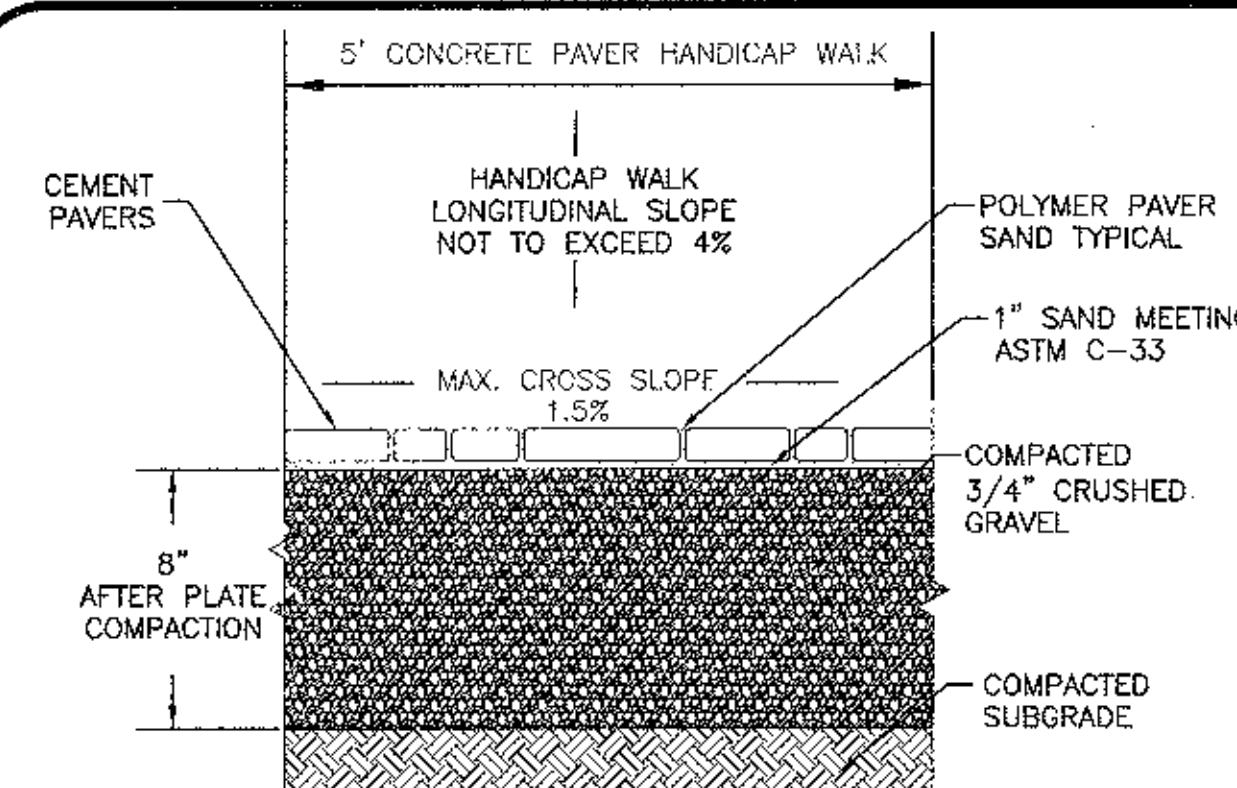


NOTES:  
1. SIDEWALK TO HAVE TOOLED JOINTS IN A 5' x 5' (TYP.) GRID WITH EXPANSION JOINTS 15' ON CENTER AND PREMOLDED FILLER.  
2. TOOLED JOINT 6" FROM FACE OF CURB  
3. SEE PLAN FOR ELEVATIONS AT CURB

**CONCRETE SIDEWALK DETAIL**  
NOT TO SCALE



**SIDEWALK TRANSITION DETAILS**  
NOT TO SCALE



ASTM C-33

SIEVE	PERCENT PASSING
9.5-MM (3/8 IN.)	100%
4.75-MM (NO. 4)	95 TO 100%
2.36-MM (NO. 8)	80 TO 100%
1.18-MM (NO. 16)	50 TO 85%
600-μM (NO. 30)	25 TO 60%
300-μM (NO. 50)	5 TO 30%
150-μM (NO. 100)	0 TO 10%

**HANDICAP WALKWAY**  
NOT TO SCALE

**PETER QUINN ARCHITECTS**

ARCHITECTURE  
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COMMUNITY DESIGN

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1904 MASS AVE, 2ND FLOOR  
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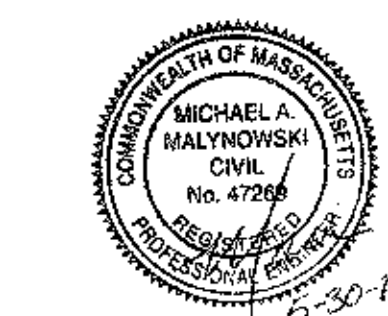
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SEAL



PROJECT

**CUSHING VILLAGE**  
CUSHING SQUARE  
BELMONT, MA

PREPARED FOR



6 LITTLEFIELD ROAD  
ACTON, MA 01710

DRAWING TITLE

**DETAILS**

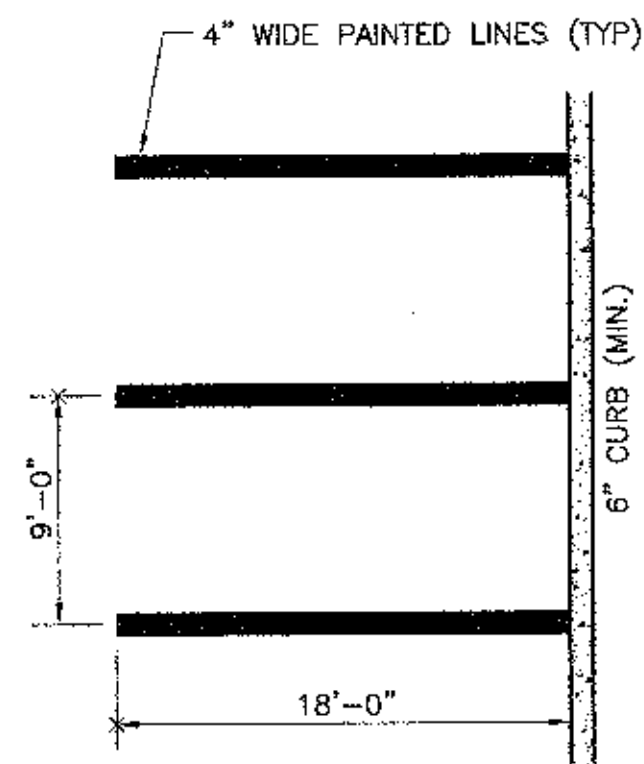
SCALE AS NOTED

REVISION	DATE
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BLDG. UPDATE	NOV. 2012
DRAWN BY WL	REVIEWED BY MAM

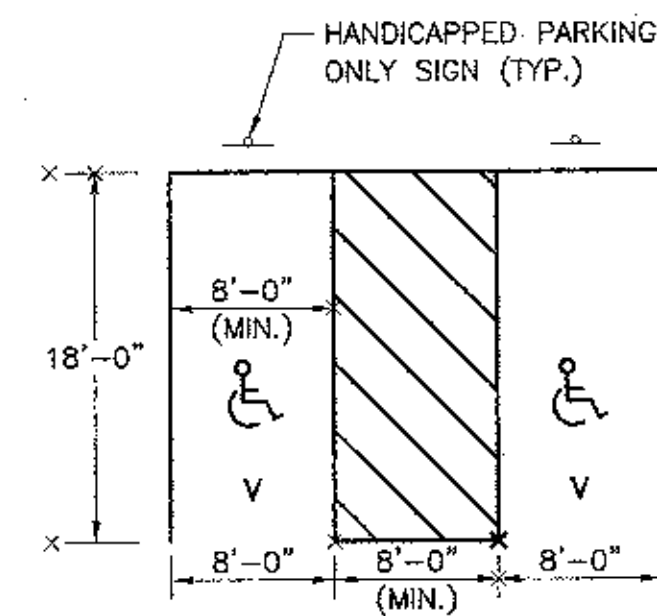
SHEET

**D.3**

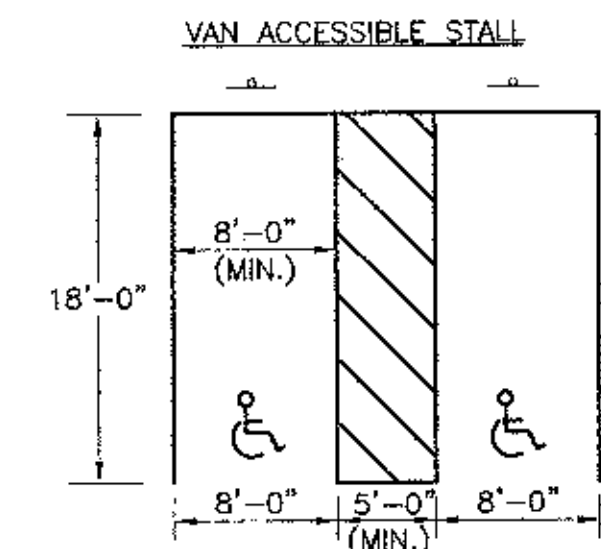




STANDARD STALL

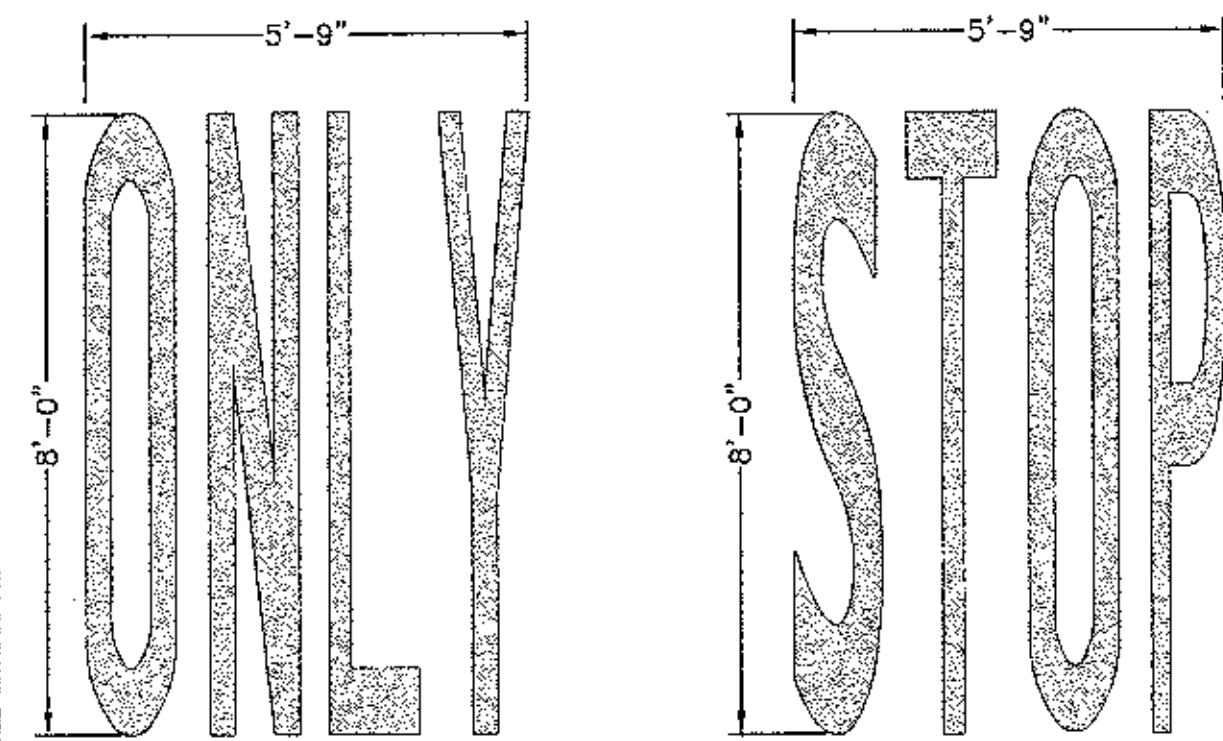


NOTE:  
1. "V" DENOTES A VAN ACCESSIBLE HANDICAPPED PARKING SPACE

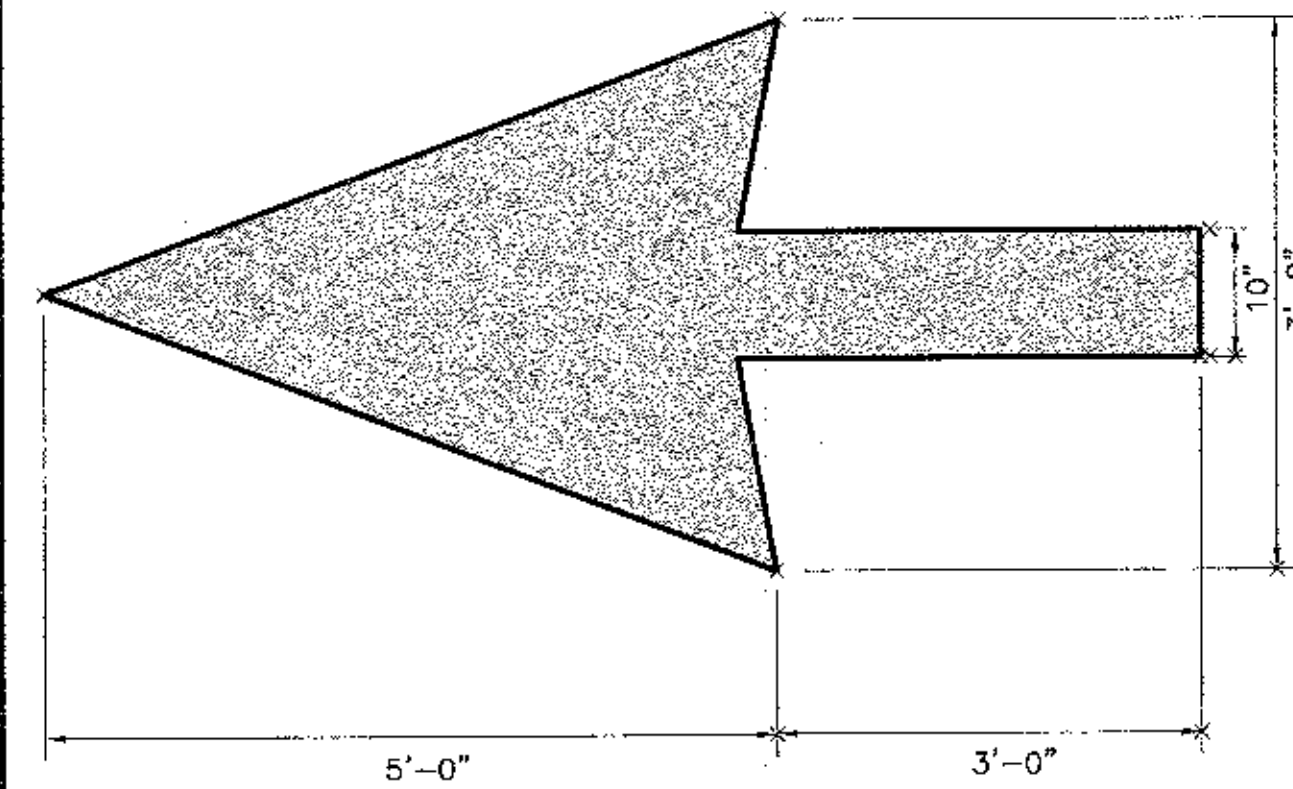


STANDARD HANDICAPPED STALL

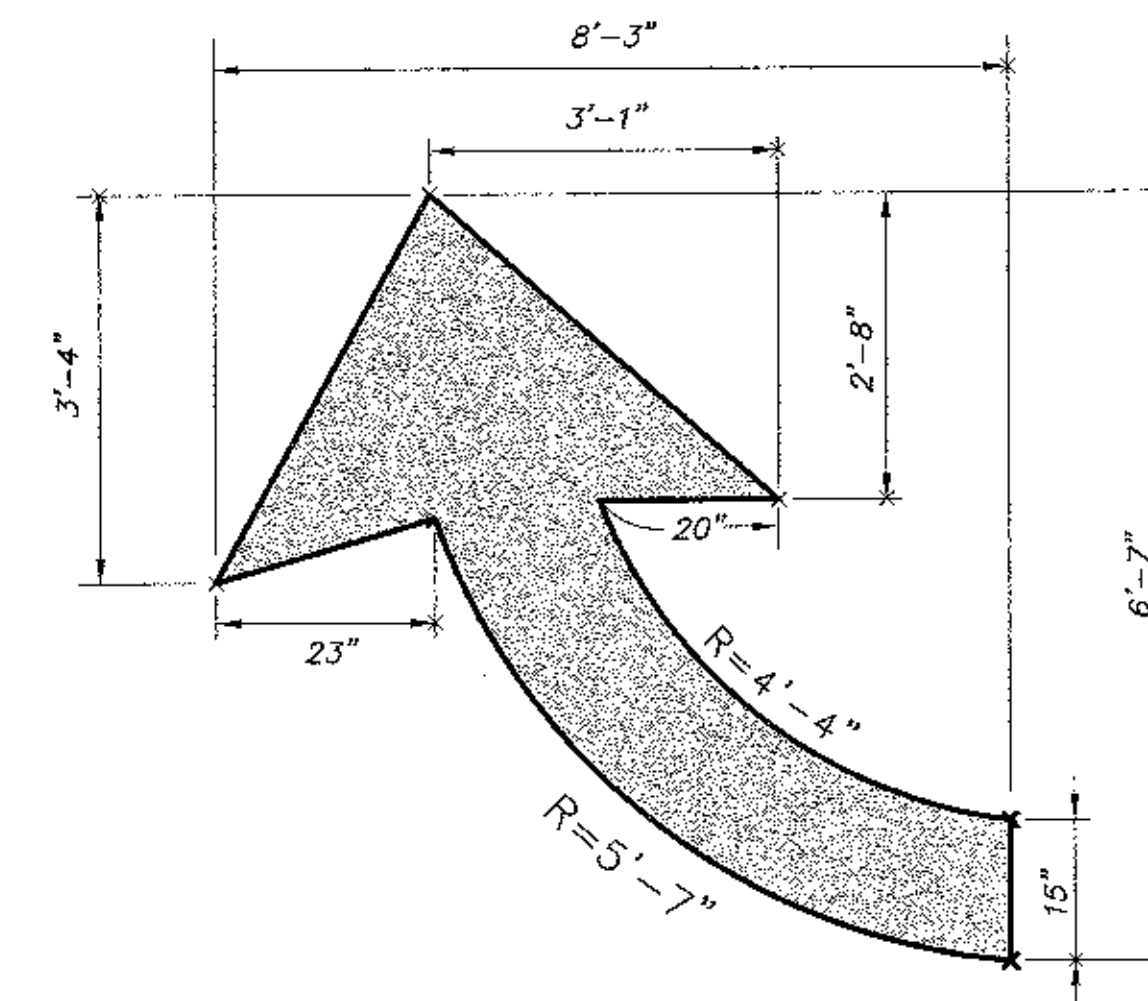
HANDICAPPED AND STANDARD STALL DETAIL  
NOT TO SCALE



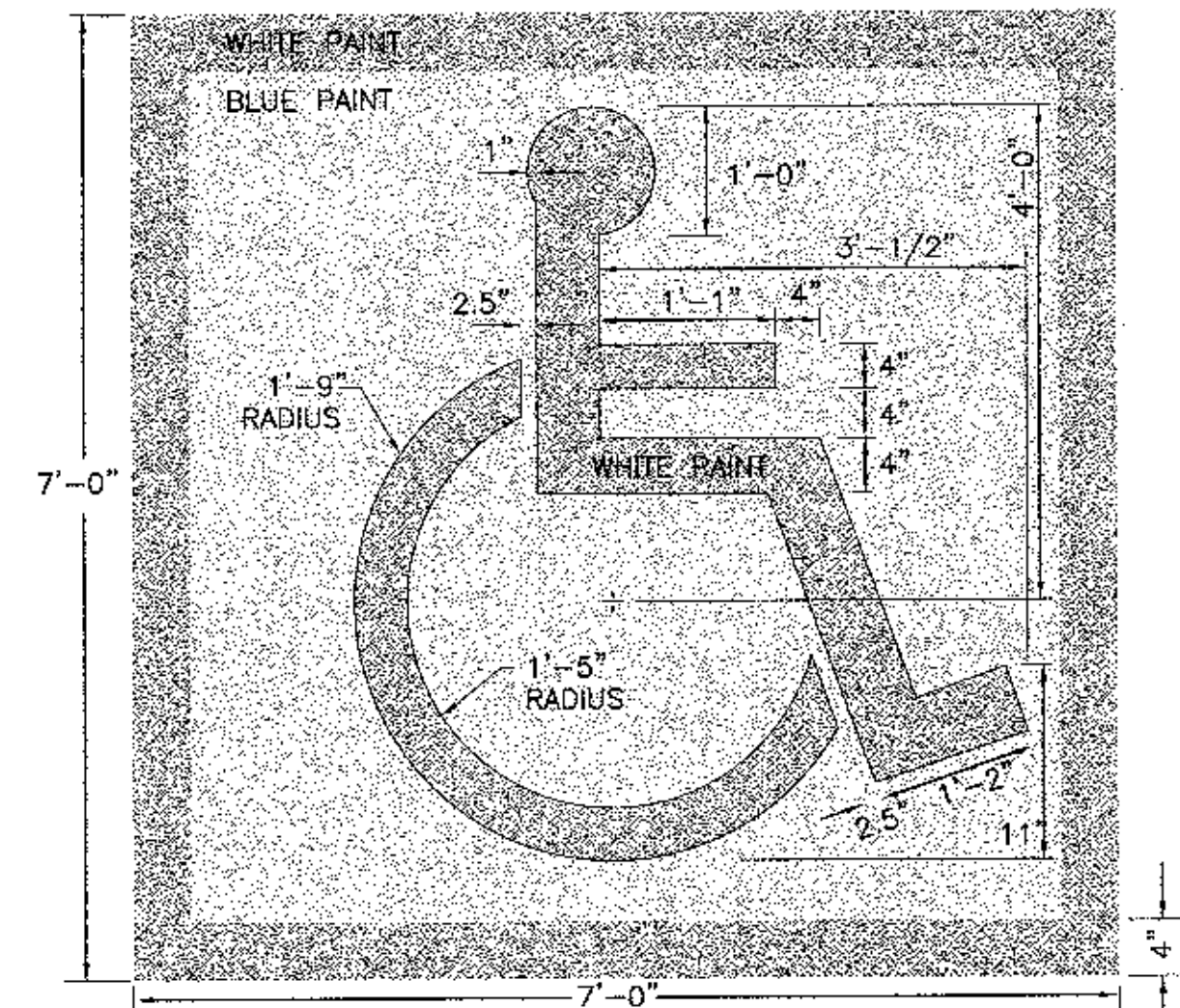
WHITE THERMOPLASTIC LETTERING DETAIL  
NOT TO SCALE



WHITE THERMOPLASTIC STRAIGHT ARROW DETAIL  
NOT TO SCALE



WHITE THERMOPLASTIC TURNING ARROW  
NOT TO SCALE

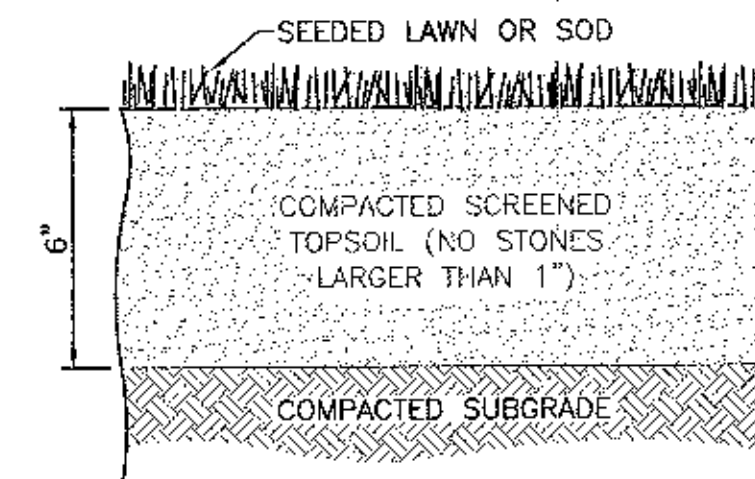


SYMBOL TO BE CENTERED ON WIDTH OF PARKING STALL. SYMBOL IS REQUIRED TO CONTRAST WITH BACKGROUND. USE WHITE ON BLUE (COLOR #105090 IN FEDERAL STANDARD 5952) DOUBLE COAT.

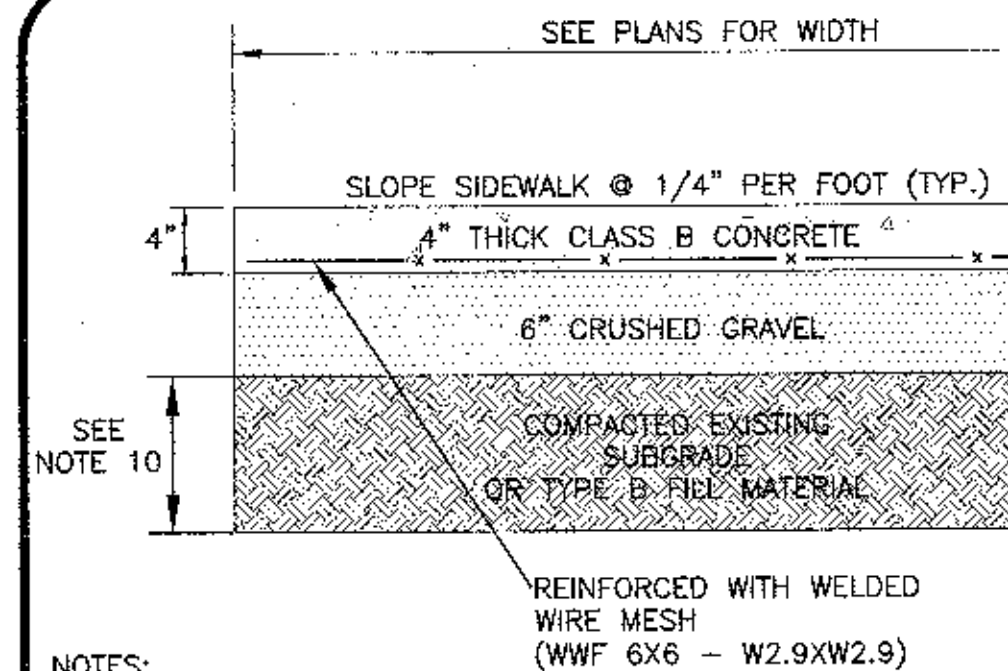
ACCESSIBLE PARKING STALL PAVEMENT MARKING  
NOT TO SCALE

NOTES:  
1. TOP OF LOAM (TOPSOIL) IS FINISHED GRADE.  
2. TOPSOIL SHALL BE FERTILE, FRIABLE SOIL, TYPICAL OF PRODUCT SOILS IN THE SURROUNDING AREA AND SHALL CONTAIN BETWEEN 5% AND 12% ORGANIC MATTER AND SHALL HAVE A MAXIMUM STONE SIZE OF 1" AND SHALL CONFORM TO THE FOLLOWING GRADATION:

SIEVE	% PASSING
1"	100
NO. 4	85-100
NO. 40	60-85
NO. 100	38-60
NO. 200	28-40



SEEDED OR SODDED LAWN DETAIL  
NOT TO SCALE



NOTES:  
1. SIDEWALK TO SLOPE TO THE ROADWAY WITH A CROSS SLOPE OF 2.0%  
2. MAXIMUM SIDEWALK SLOPE IS 5%  
3. MAXIMUM SIDEWALK CROSS SLOPE IS 2%  
4. SIDEWALK TO HAVE TOOLED JOINTS IN A 5' X 5' (TYP) GRID WITH EXPANSION JOINTS 15' ON CENTER AND PREMOLDED FILLER.  
5. TOOLED JOINT 6" FROM FACE OF CURB.  
6. SEE PLAN FOR ELEVATIONS AT CURB.  
7. LIFT WWF TO CENTER OF SLAB WITH HOOKS AFTER CONCRETE PLACEMENT.  
8. DOWEL SIDEWALK INTO FOUNDATION AT DOORS.  
9. REFER TOP ARCHITECTURAL PLANS FOR SIDEWALK DETAIL AT DOORS.  
10. STRIPPED SUBSOIL MAY BE PLACED AS FILL AT DEPTHS GREATER THAN 4' BELOW THE TOP OF PAVEMENT

TYPICAL CONCRETE SIDEWALK SECTION  
NOT TO SCALE

PETER  
QUINN  
ARCHI  
TECTS

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COMMUNITY DESIGN

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SEAL



PROJECT

CUSHING VILLAGE  
CUSHING SQUARE  
BELMONT, MA

PREPARED FOR



6 LITTLEFIELD ROAD  
ACTON, MA 01710

DRAWING TITLE

DETAILS

SCALE AS NOTED

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DRAWN BY WL	REVIEWED BY MAM

SHEET

D.4