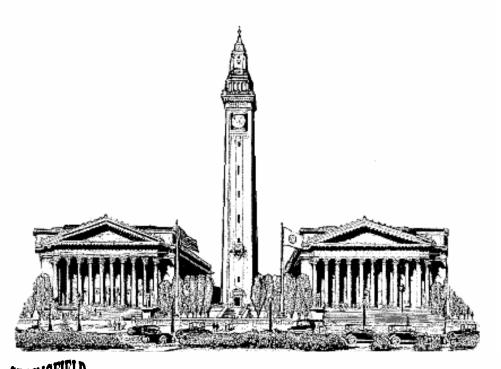
Springfield Department of Public Works Standard Engineering Details





CONSTRUCTION NOTES

- **1.** CALL DIG-SAFE (1-800-322-4844) A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION.
- 2. CONTRACTOR IS RESPONSIBLE FOR STREET OCCUPANCY PERMITS FROM THE ENGINEERING DIVISION, DEPARTMENT OF PUBLIC WORKS.
- **3.** NOTIFY FIELD INSPECTOR 48 HOURS PRIOR TO CONSTRUCTION.
- 4. APPROVED PLANS SHALL BE ON SITE AT ALL TIMES.
- 5. CHANGES TO THIS PLAN MAY OCCUR AS UNFORSEEN CONDITIONS ARISE. ALL CHANGES SHALL BE APPROVED BY FIELD INSPECTOR.
- 6. CALCIUM CHLORIDE/ WATER FOR DUST CONTROL SHALL BE AVAILABLE AT ALL TIMES.
- **7.** ALL MATERIALS AND METHODS SHALL CONFORM TO CITY OF SPRINGFIELD D.P.W. AND WATER AND SEWER COMMISSION STANDARDS.
- **8.** THE CONTRACTOR SHALL ENSURE THE MAINTENANCE OF SAFETY AND TRAFFIC ON THE PUBLIC AND PRIVATE WAYS AFFECTED BY THE CONSTRUCTION OF THIS PROJECT.
- **9.** THE CONTRACTOR SHALL PROTECT ALL SLOPES, VEGETATION, PAVING, WALKS AND IMPROVEMENTS OUTSIDE THE AREAS TO BE AFFECTED BY THE CONSTRUCTION OF THIS PROJECT.
- **10.** ALL DRAINAGE STRUCTURES (CATCH BASINS / LEECHING BASINS) IN THE AREA SHALL BE PROTECTED FROM RUNOFF.
- **11.** "AS-BUILT" UTILITY DRAWINGS ARE TO BE SUBMITTED TO THE ENGINEERING DIVISION UPON COMPLETION OF THIS PROJECT.
- 12. ALL PAVEMENT MARKINGS CHANGED, ALTERED OR REMOVED SHALL BE RE-APPLIED.
- **13.** SPRINGFIELD D.P.W. APPROVAL IS NOT TO BE CONSTRUED AS AN ALL-INCLUSIVE APPROVAL, AS OTHER APPROVALS MAY BE NECESSARY, I.E. CITY FORESTER, CONSERVATION, FIRE DEPT. AND WATER AND SEWER COMMISSION. ETC.
- **14.** THE CONTRACTOR SHALL HAVE AN APPROVED S.W.P.P.P. ON SITE AS NEEDED.
- **15.** (OTHER NOTES AS NEEDED)

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- **0002** TYPICAL STANDARD SECTION FOR SIDEWALK CONSTRUCTION (ASPHALT)
- **0003** TYPICAL STANDARD SECTION FOR SIDEWALK CONSTRUCTION WITH UNSUITABLE SUB BASE (ASPHALT)
- **0004** TYPICAL STANDARD SECTION FOR SIDEWALK CONSTRUCTION AT CURB LINE (CONCRETE)
- **0005** TYPICAL STANDARD SECTION FOR SIDEWALK CONSTRUCTION (CONCRETE)
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- 0007 STANDARD SIDEWALK CONSTRUCTION AT COMMERCIAL DRIVEWAYS
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- 0013 TYPICAL SECTION 80' STREET LINE 28' PAVEMENT
- **0014** BERM 6"

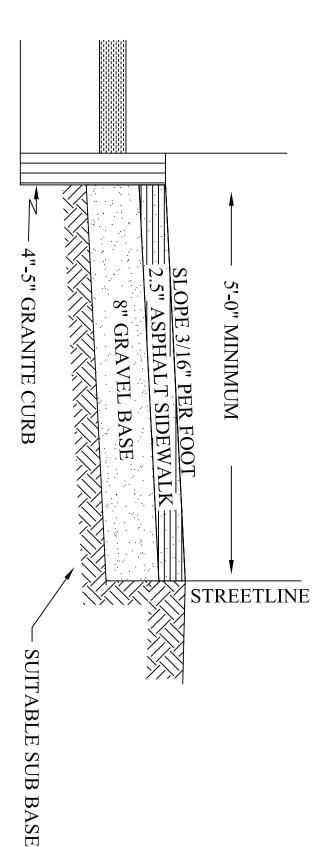
- 0015 CAPE COD BERM
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- 0070 SIDEWALK REPAIR
- 0071 MULTIPLE EXCAVATION REPAIR
- 0072 IMPRINT OR INLAYED CROSSWALK REPAIR
- 0073 CROSSWALK DETAIL CONTINENTAL STYLE

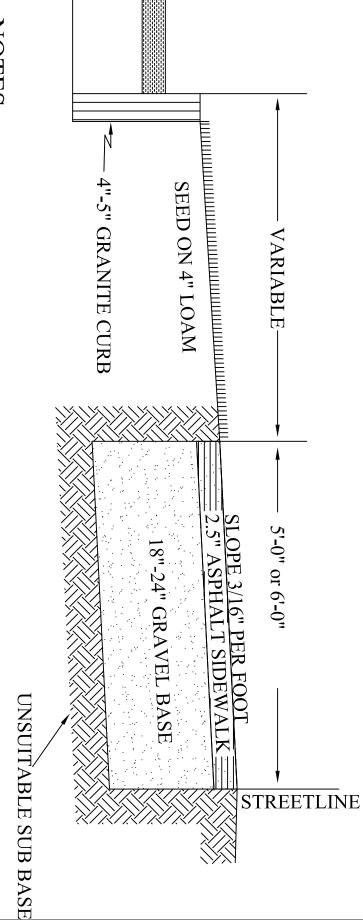
TYPICAL STANDARD SECTION FOR SIDEWALK CONSTRUCTION AT CURB LINE (ASPHALT)



NOTES:

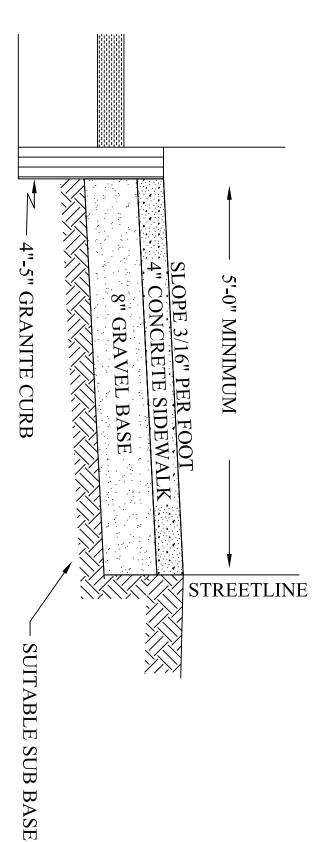
- STANDARD SIDEWALK SLOPE IS 3/16 PER FT.
- ALL WORK TO CONFORM WITH SECTION 701.62 OF THE MASSACHUSETTS HIGHWAY DEPARTMENT'S STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES

UNSUITABLE SUB BASE (ASPHALT SIDEWALK CONSTRUCTION WITH **CYPICAL STANDARD SECTION FOR**



- STANDARD SIDEWALK SLOPE IS 3/16 PER FT
- ALL WORK TO CONFORM WITH SECTION 701.62 OF THE MASSACHUSETTS HIGHWAY DEPARTMENT'S STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES

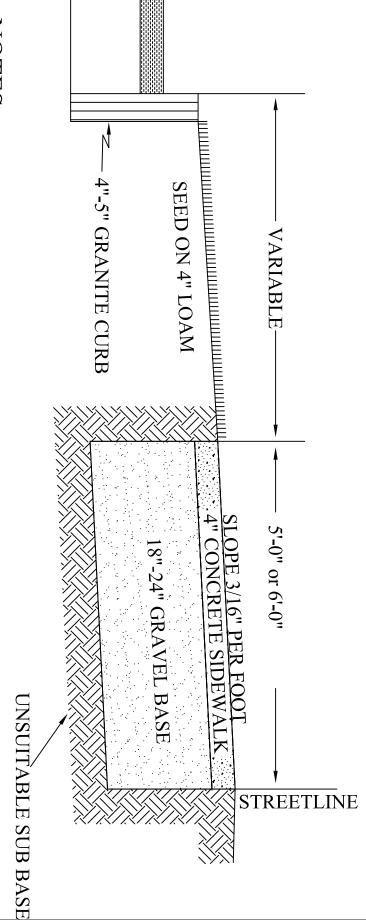
FYPICAL STANDARD SECTION FOR SIDEWALK CONSTRUCTION AT CURB LINE (CONCRETE)



NOTES:

- STANDARD SIDEWALK SLOPE IS 3/16 PER FT.
 MINIMUM CONCRETE STENGTH WILL BE 4,000#, CLASS D

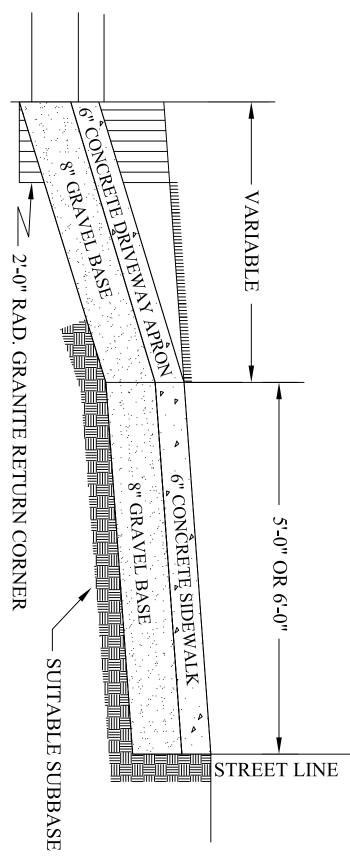
UNSUITABLE SUB BASE (CONCRETE TYPICAL STANDARD SECTION FOR SIDEWALK CONSTRUCTION WITH



NOTES:

- STANDARD SIDEWALK SLOPE IS 3/16 PER FT.
- MINIMUM CONCRETE STRENGTH WILL BE 4,000#, CLASS D

STANDARD SIDEWALK CONSTRUCTION AT RESIDENTIAL DRIVEWAYS



- 6" CONCRETE DEPTH TO BE REPLACED BY 3-1/2" ASPHALT(2" BINDER, 1- 1/2 TOP)
 AS DIRECTED BY THE ENGINEER
 STANDARD SIDEWALK SLOPE IS 3/16 PER FT.
- MAXIMUM DRIVEWAY WIDTH IS 24' WITH TWO 2' CURB RETURNS (20' OPENING)
- WIRE WELDED FABRIC PLACED 1-1/2" ABOVE GRAVEL BASE
- MINIMUM CONCRETE STRENGTH WILL BE 4,000#, CLASS D

VARIABLE SLOPE

STREET LINE

7.00'

VARIABLE SLOPE

STREET LINE

SPRINGFIELD, MA DPW 2-27-2006

3/16"PER FT

VARIABLE SLOPE

4" LOAM TO BE SEEDED

11.00'

STREET LINE

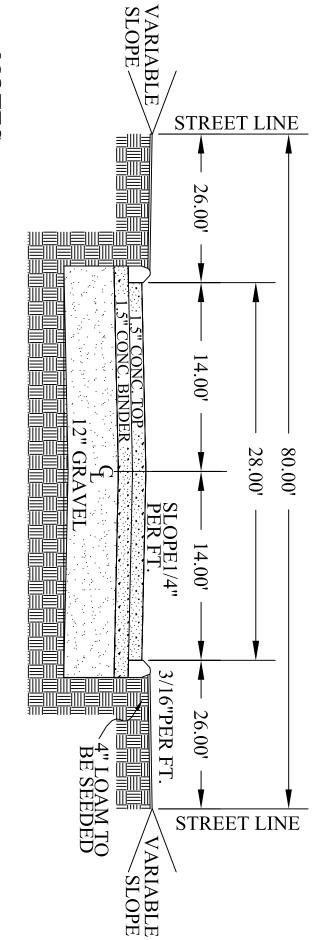
- USE CALCIUM CHLORIDE APPLIED AT 1.5 LBS PER SQ. YD. OR APPROVED ALTERNATE
- 1.5" BITUMINOUS CONCRETE TOP, 1.5" BITUMINOUS CONCRETE BINDER

STREET LINE

VARIABLE SLOPE

ID# 0012

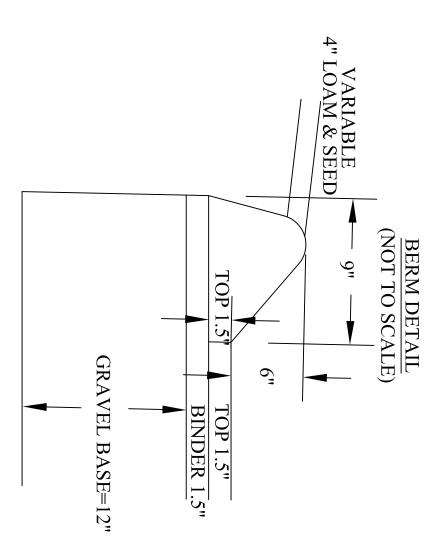
TYPICAL SECTION 80' STREET LINE 28' PAVEMENT



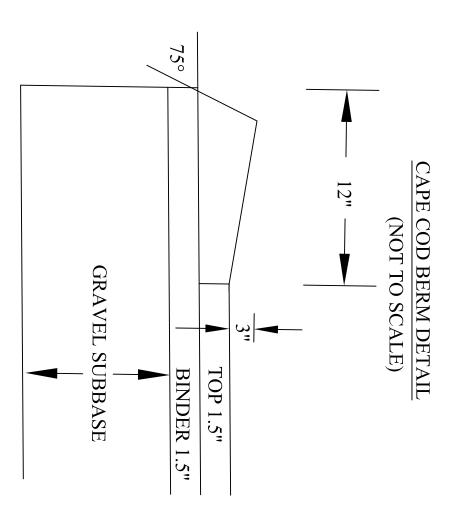
NOTES:

- EXISTING SUBGRADE TO BE SHAPED AND COMPACTED
- USE CALCIUM CHLORIDE APPLIED AT 1.5 LBS PER SQ. YD. OR APPROVED ALTERNATE
- SURFACE COURSE:
- 1.5" BITUMINOUS CONCRETE TOP, 1.5" BITUMINOUS CONCRETE BINDER
- BASE:
- 12" GRAVEL

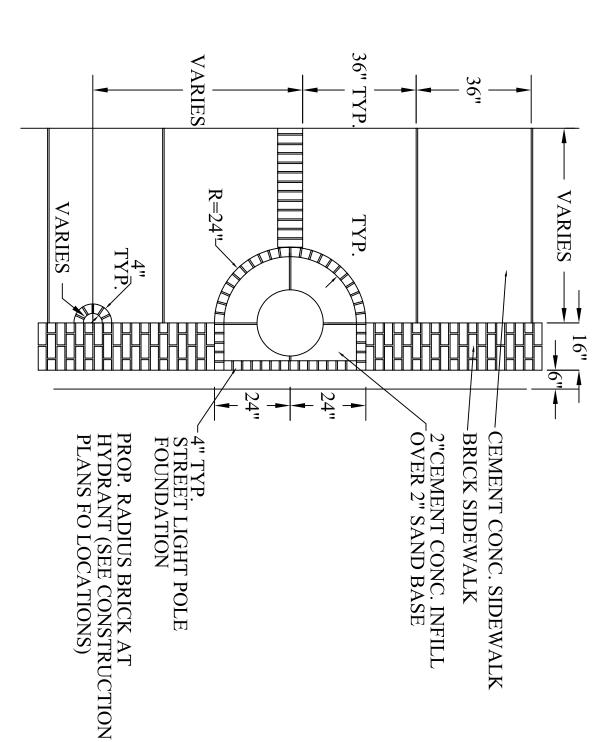
BERM 6"



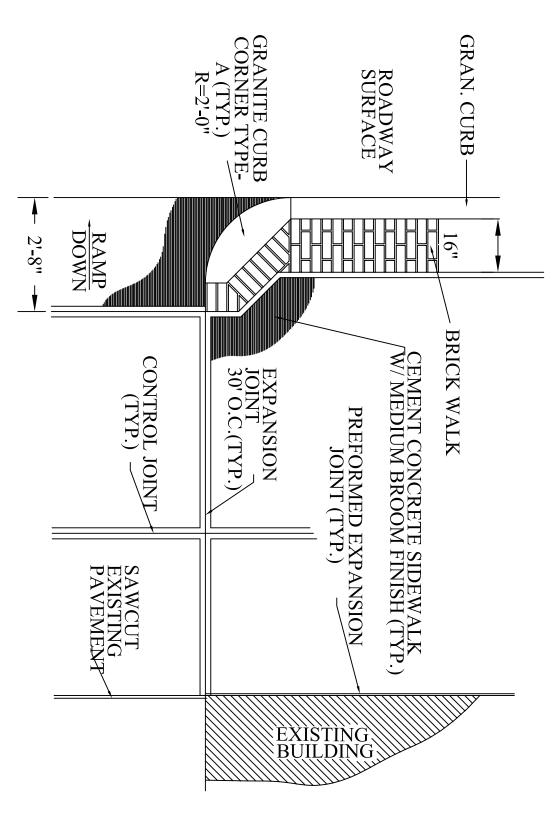
CAPE COD BERM

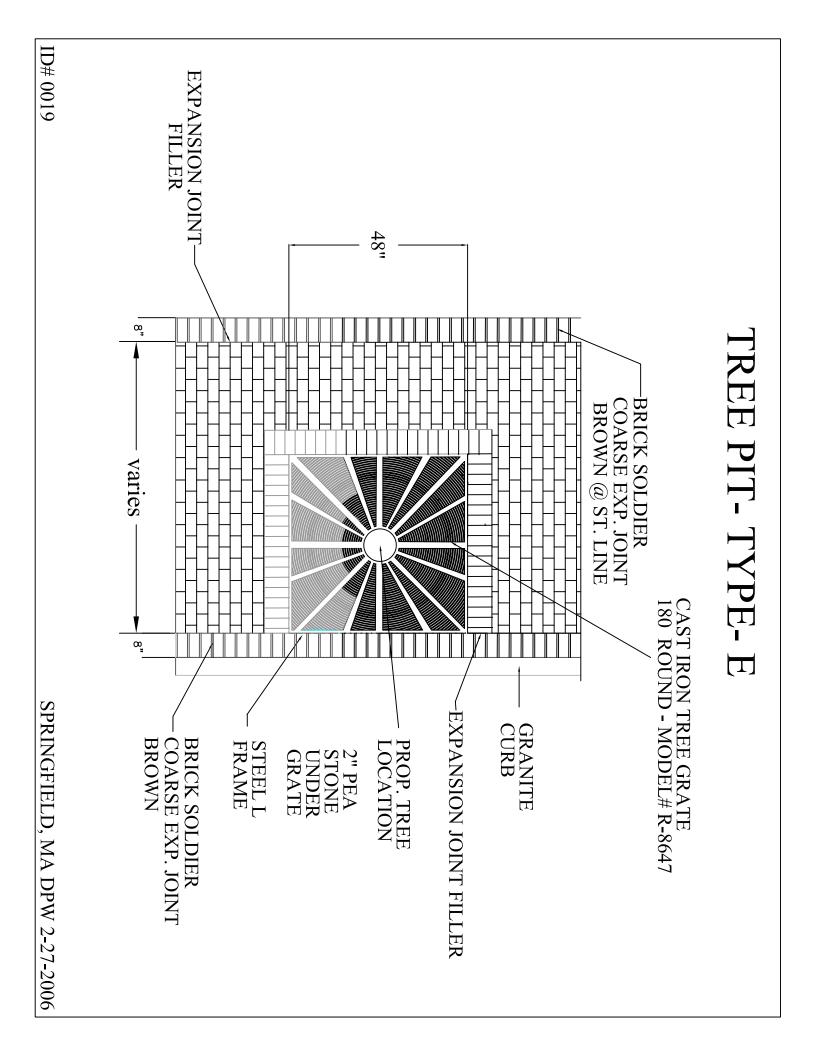


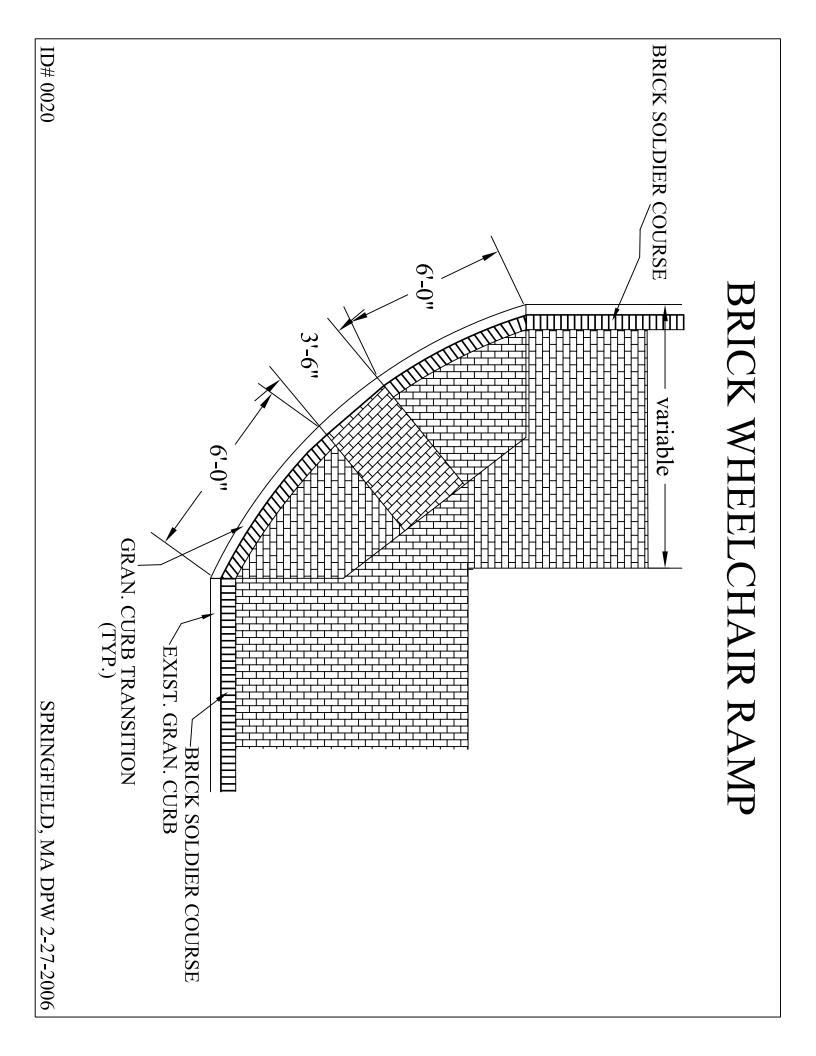
SIDEWALK TREATMENT AT UTILITIES **BRICK SIDEWALK**



BRICK SIDEWALK SIDEWALK TREATMENT AT DRIVES





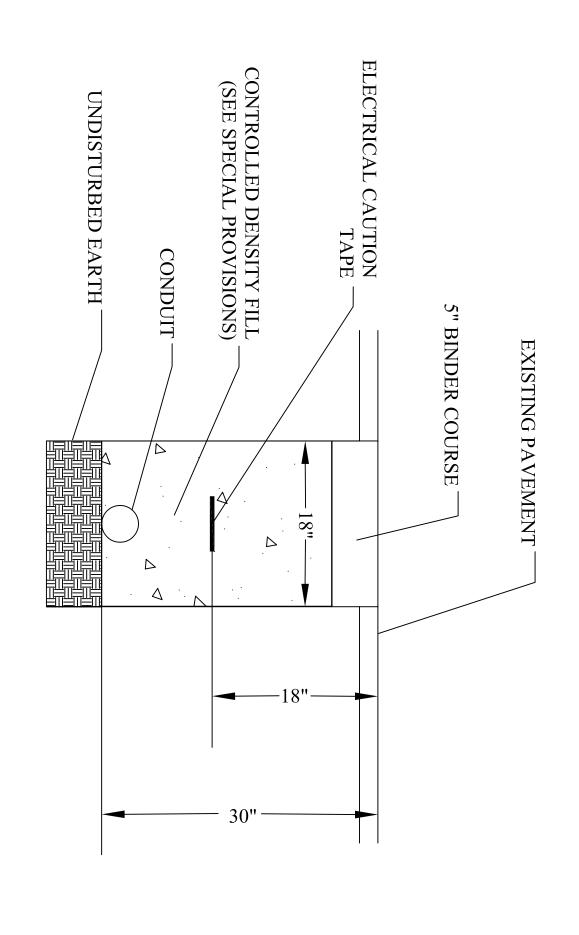


- TREES SHALL BE PLANTED PLUMB NOTES: BRICK PAVERS SET ON A 2" LAYER OF SAND PROVISIONS) COVERED BY A LAYER OF WEED BLOCKING FABRIC PLANTABLE SOIL MIXTURE (SEE SPECIAL BRICK TREE PLANTING MIN. 12"min. 2"X2" SPRUCE POST UNPAINTED - DRIVE POST AT ANGLE AND - DRAW TO VERTICLE JNTIE AND ROLL BACK BURLAP FROM TOP 1/3 OF ROOT BALL TWO STRANDS OF #18 GUAGE TWISTED STEEL WIRE BLACK RIENFORCED RUBBER HOSE

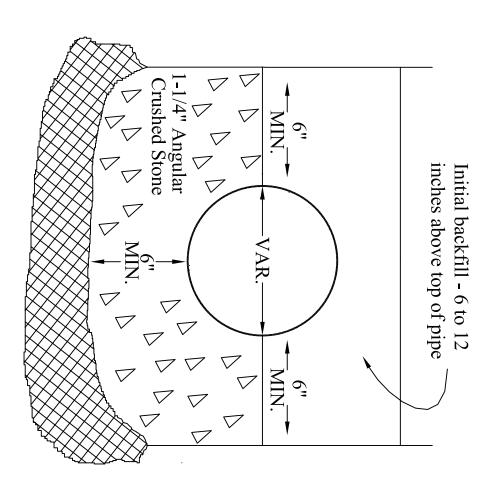
ID# 0021

SPRINGFIELD, MA DPW 2-27-2006

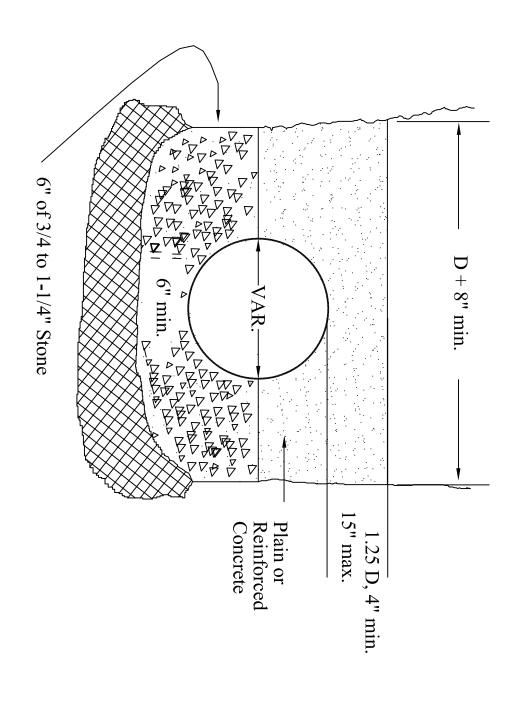
TRAFFIC SIGNAL CONDUIT TRENCH



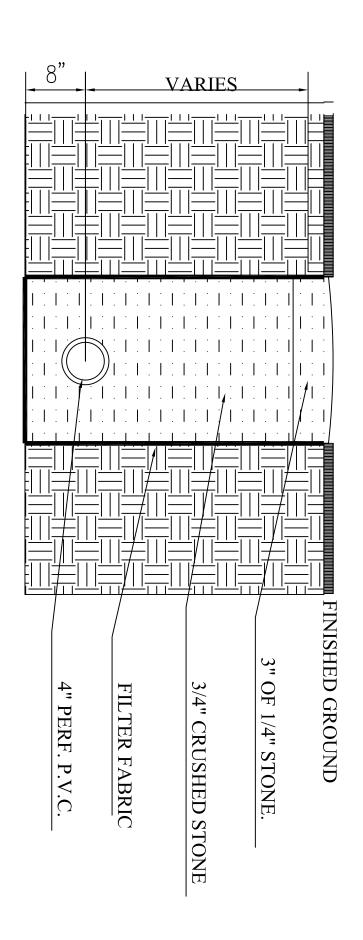
RCP. CLASS IV PIPE TRENCH



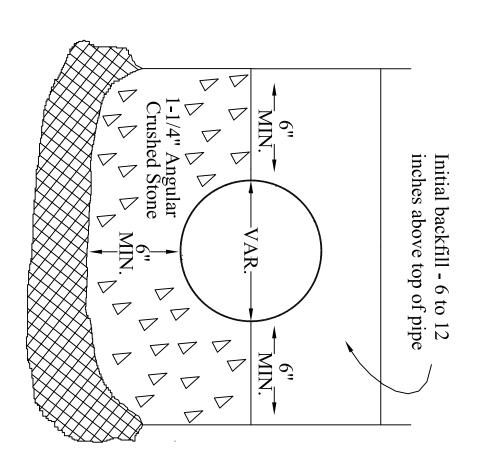
CLASS 'A' CONCRETE ARCH



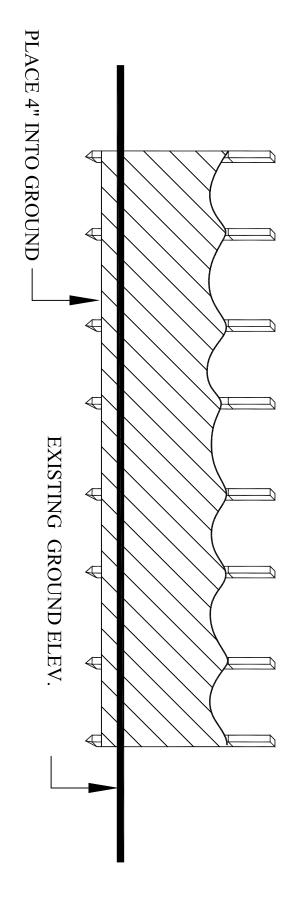
CURTAIN DRAIN



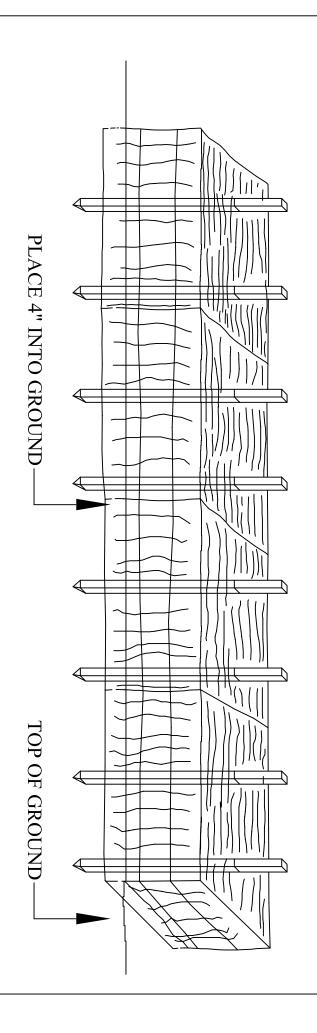
PVC-SDR35 PIPE TRENCH

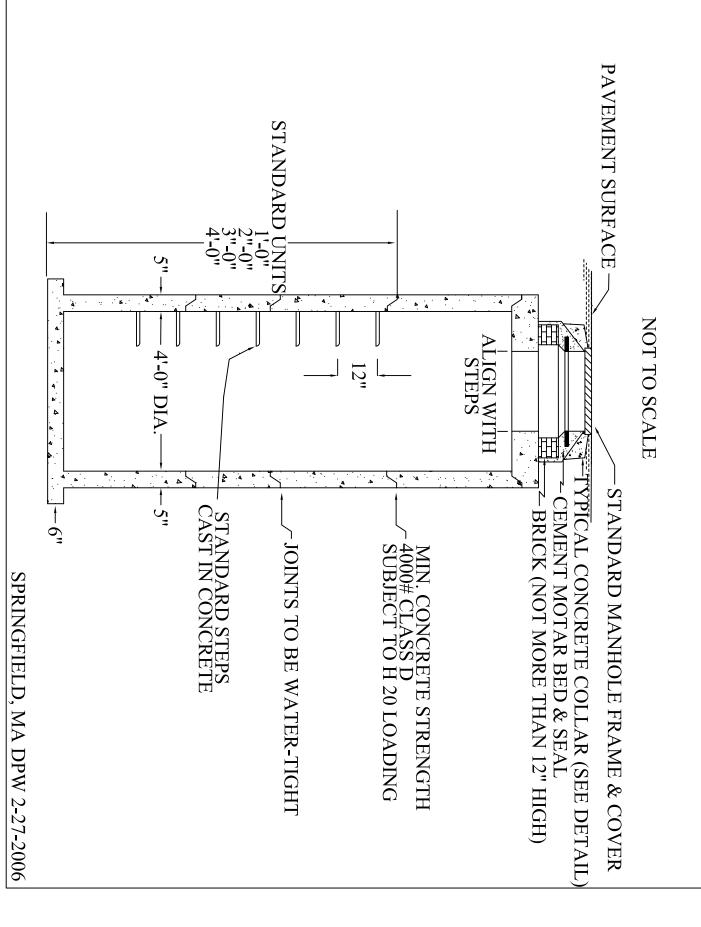


SILT FENCE



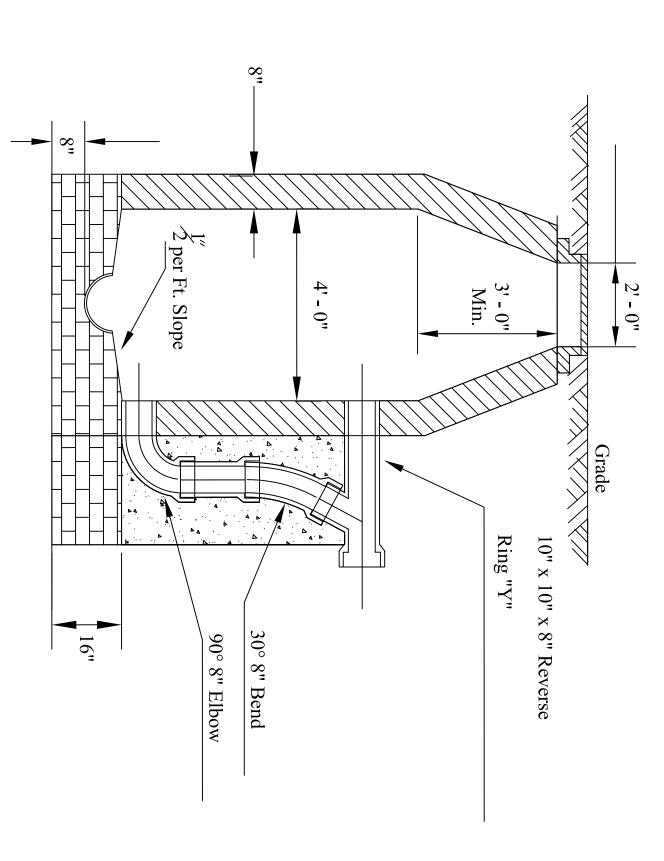
STAKED HAY BALES



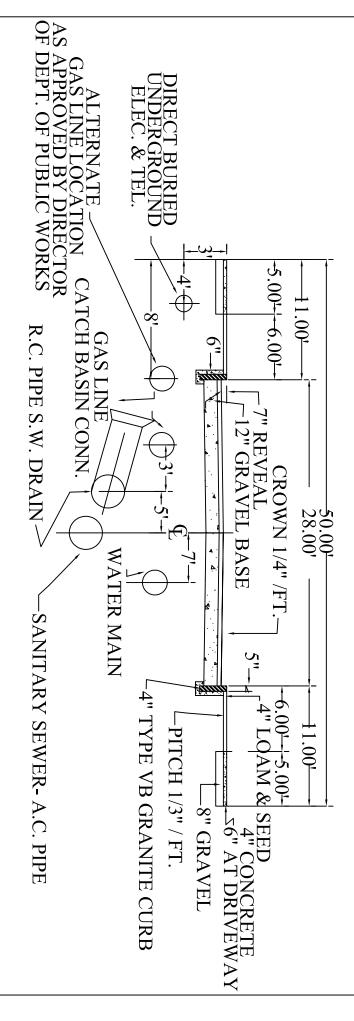


ID# 0030

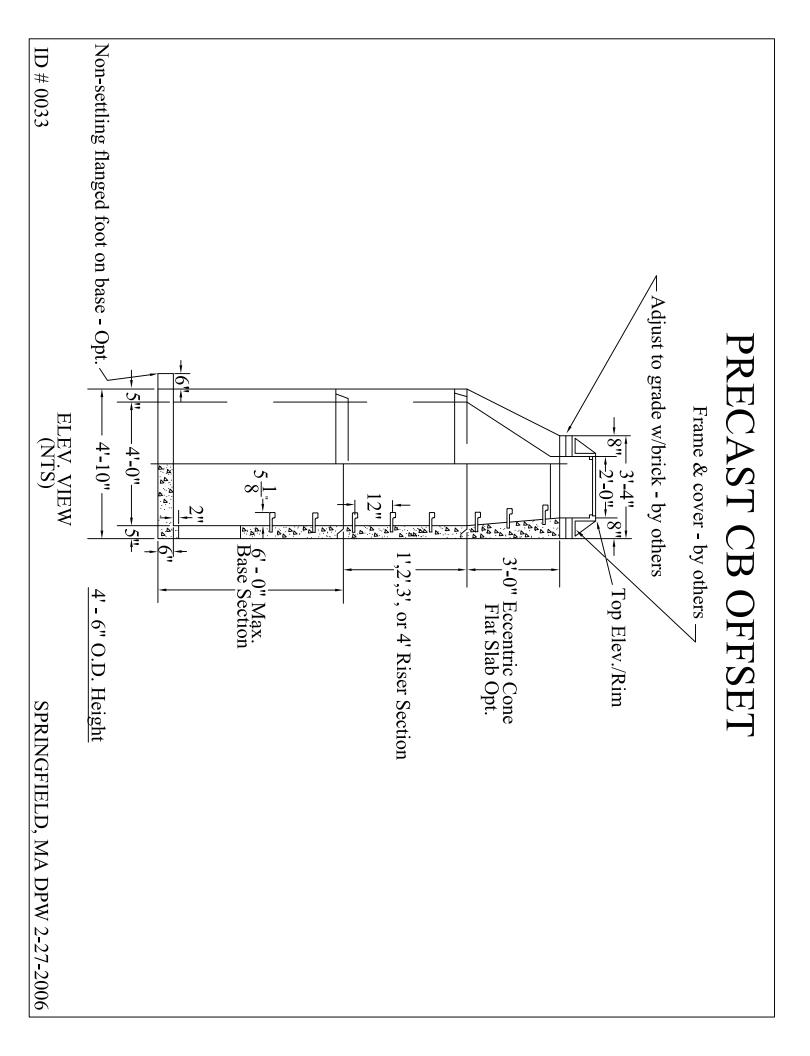
TYPICAL SECTION OF DROP TYPE MANHOLE

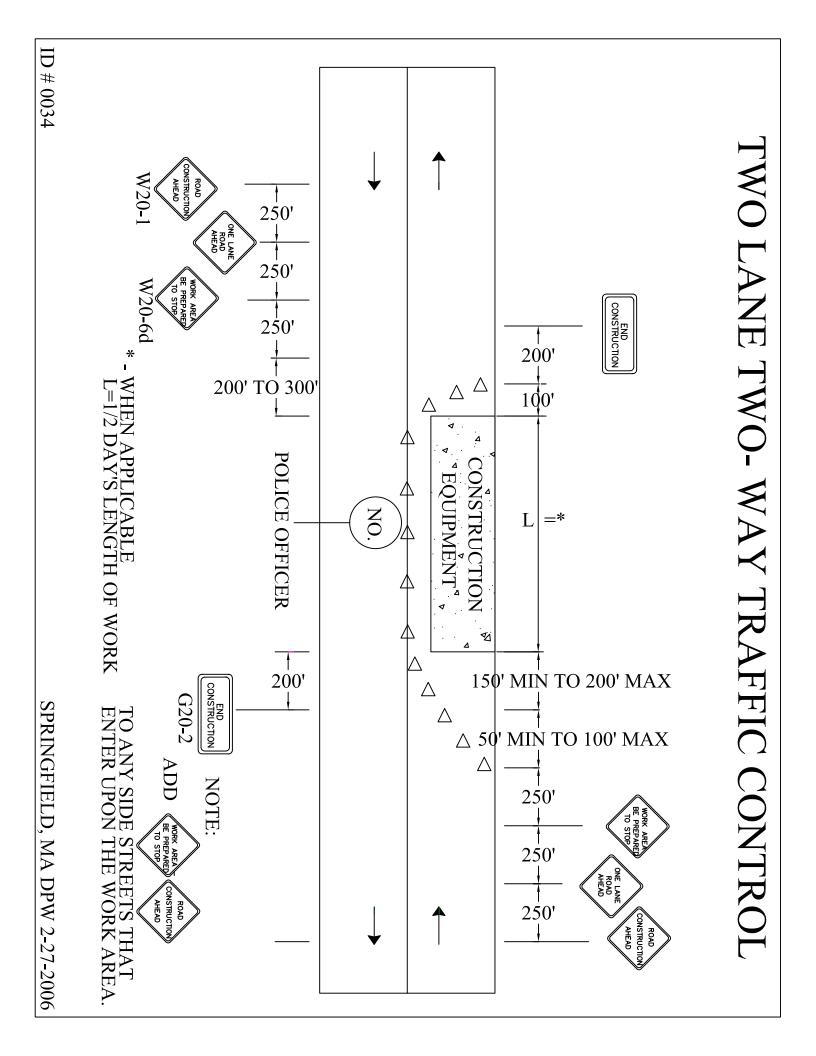


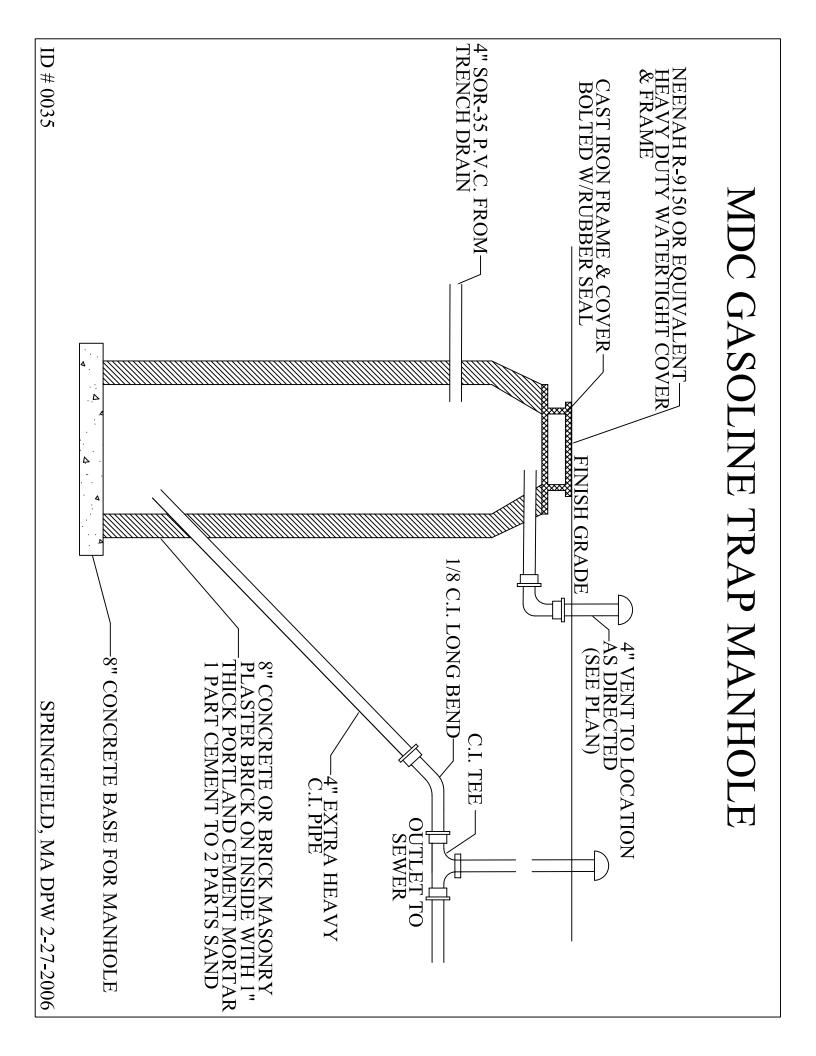
STREET TYPICAL SECTION FOR UTILITIES

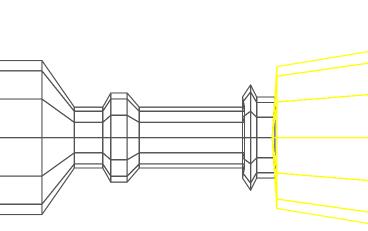


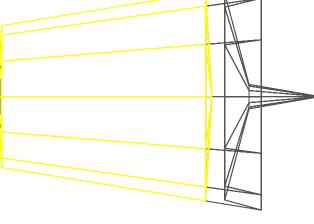
- WHERE PRACTICABLE STORMWATER LINES ARE PLACED 5' OFF THE CENTER LINE ON THE SOUTH OR WEST SIDE OF THE STREET
- WATER MAINS ARE 18' OFF STREET LINE, EITHER NORTH OR EAST SIDE OF THE STREET
- CONNECTIONS FROM CATCH BASINS TO MANHOLES- V.C. PIPE- CLASS 200-64T OR EQUAL
- SURFACE COURSE 3" TYPE I BIT. CON. LAID IN TWO COURSES- 1 1/2" TOP COURSE
- | 1/2" BINDER COURSE













DECORATIVE LIGHTING IVY STYLE

LUMINARE SPECIFICATIONS

7" FITTER
HEIGHT: 34"
WIDTE STYLE: EDGEWATER REFRACTIVE PANELS-

WIDTH: 20" ACROSS POINT TO POINT MATERIAL: CAST ALUMINUM

POLYCARBONATE

CLEAR

34"

-20"-

PANELS

BALLAST COVER

PANELS: CLEAR POLYCARBONATE FINISH: BLACK LAMPING: 70 WATT HIGH PRESSURE SODIUM VOLTAGE: QUADRI- VOLTS BALLST WIRED

FOR 120 VOLTS- HPF

REFRACTOR: TYPE5/PRISMATIC ACRYLIC HARDWARE: STAINLESS STEEL

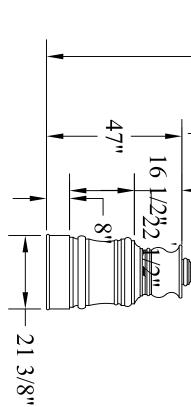
WEIGHT: 50 POUNDS APPROX

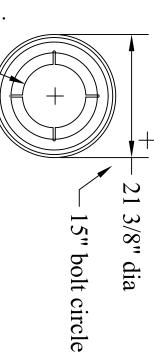
LAMP POST SPECIFICATIONS

8'-8 1/8"

21 |3/4" -

TER: 14'-0 1/8" 1 3/8" DIAMETER PRIME PAINT BLACK



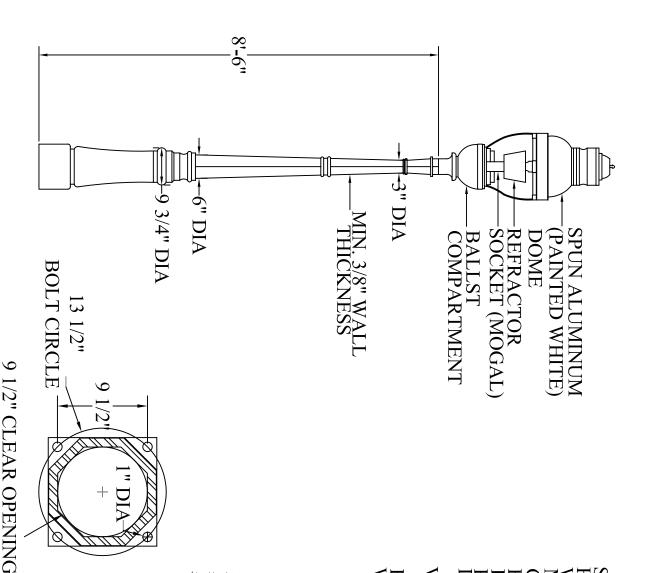


11" clear opening

ID # 0037

SPRINGFIELD, MA DPW 2-27-2006

DECORATIVE LIGHTING BOROUGH STYLE



LUMINAIRE SPECIFICATIONS

STYLE: READING

HEIGHT: 43 7/8" WIDTH: 17 1/8" MATERIAL: CAST ALUMINUM

FINISH: FINISH PAINT (BLACK)

REFRACTOR: PRISMATIC GLASS TYPE 5 LAMPING: 70 WATT HIGH PRESSURE

SODIUM VOLTAGE: QUADRA-VOLT BALLAST

WIRED FOR 120 HARDWARE: STAINLESS S WEIGHT: 40 POUNDS

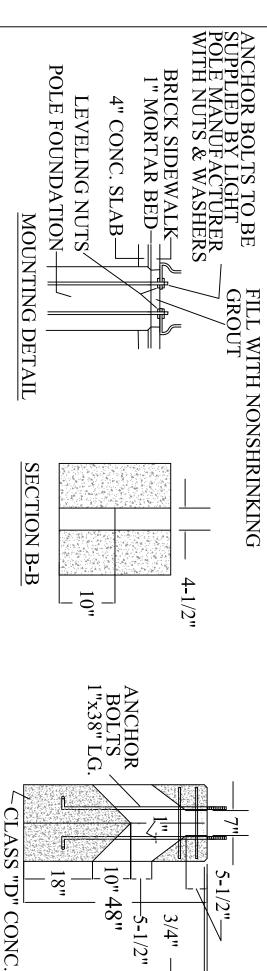
LAMP POST SPECIFICATIONS

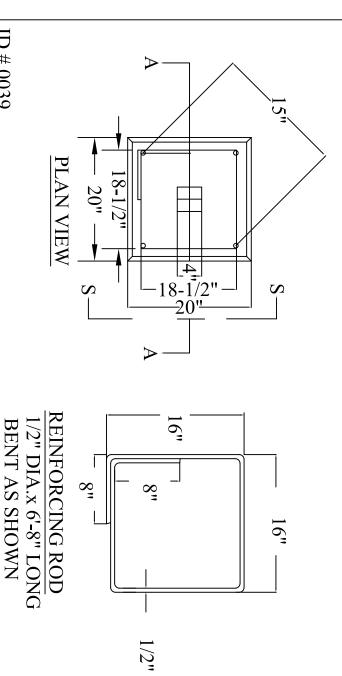
STYLE: BOROUGH

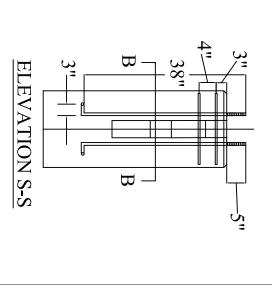
HEIGHT: 8'-6"

LIGHT CENTER: 10'-0 3/4"
BASE: 11 1/2" SQUARE
FINISH: PRIME PAINT (BLACK)
WEIGHT 40 POUNDS

PRECAST LIGHT POLE FOUNDATION



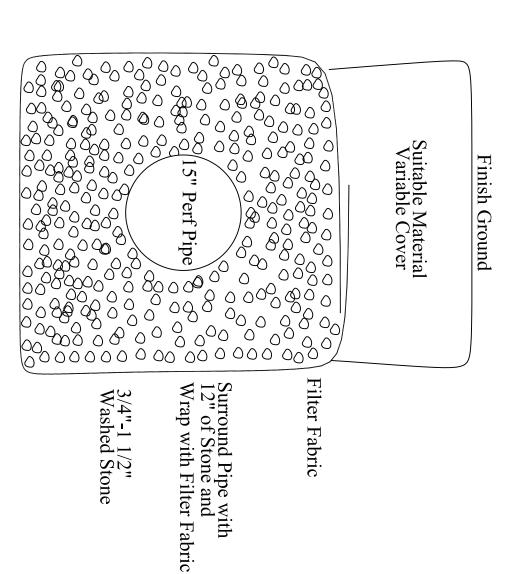


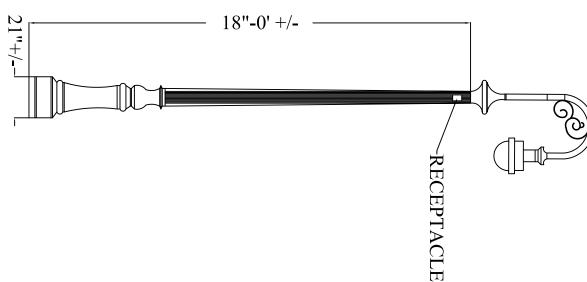


SECTION A-A

SPRINGFIELD, MA DPW 2-27-2006

TYPICAL LEACHING TRENCH



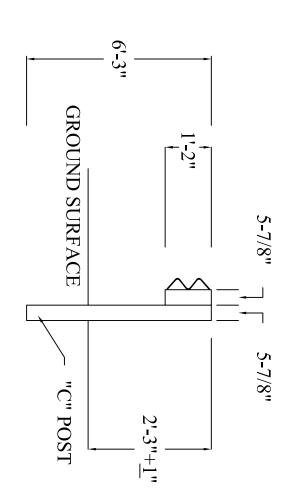


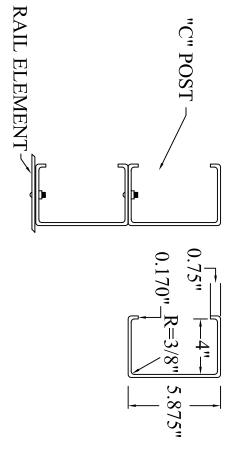
PROPOSED STREET LIGHTING
AS PER SPECIAL PROVISIONS

ID # 0041

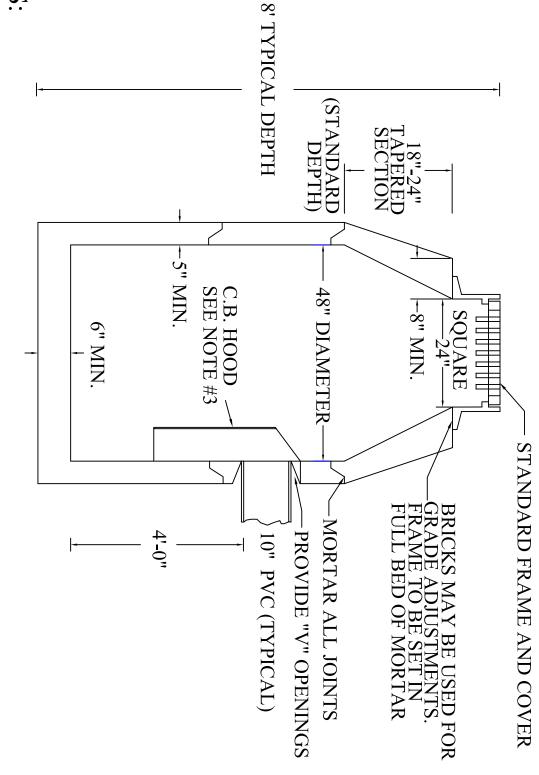
SPRINGFIELD, MA DPW 2-27-2006

STEEL BEAM GUARD RAIL



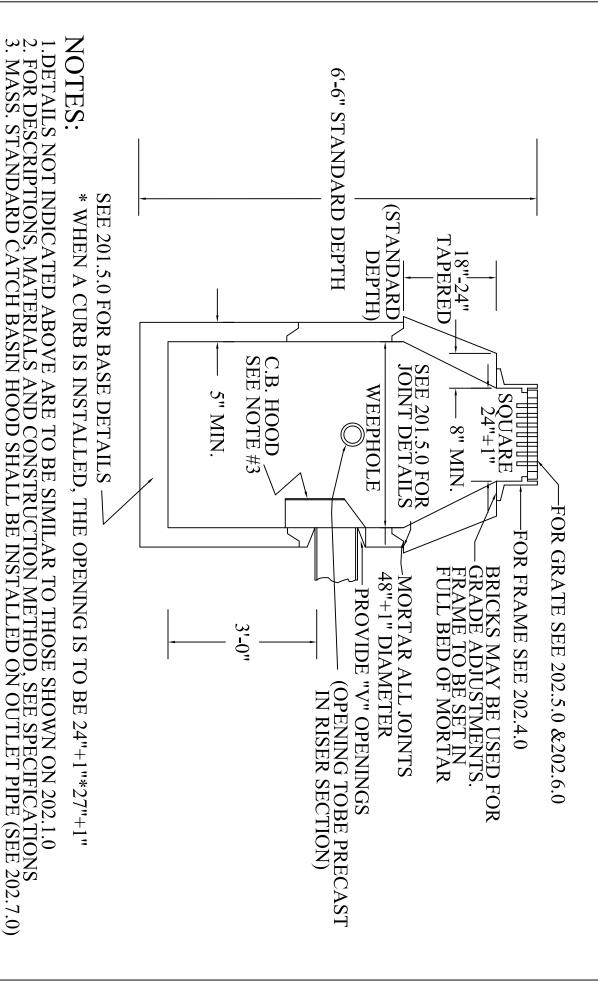


PRECAST CONCRETE CATCH BASIN



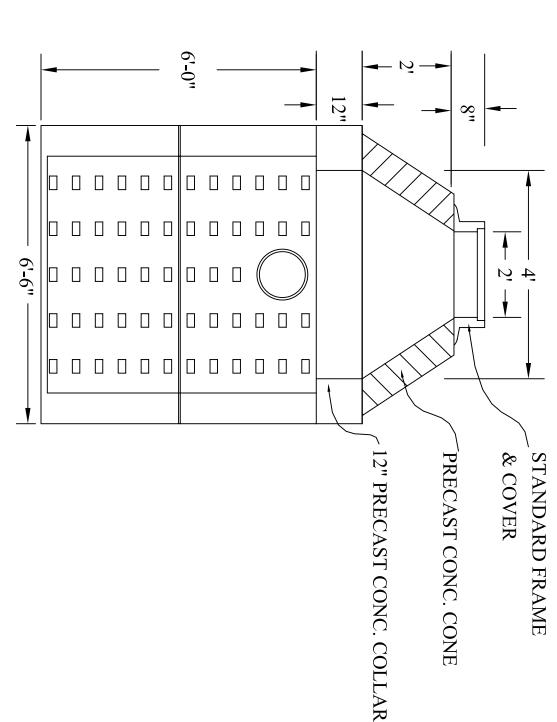
- 1. MINIMUM CONCRETE STRENGTH 4000# CLASS D. 2. STRUCTURE SUBJECT TO H 20 LOADING. 3. MASS. HIGHWAY STANDARD CONCRETE STRENGTH 4000# CLASS D. MASS. HIGHWAY STANDARD CATCH BASIN HOOD SHALL BE INSTALLED ON OUTLET PIPE.
- 4. STRUCURE TO COMPLY WITH ALL CITY OF SPRINGFIELD DPW STANDARDS

PRECAST CONCRETE CATCH BASIN

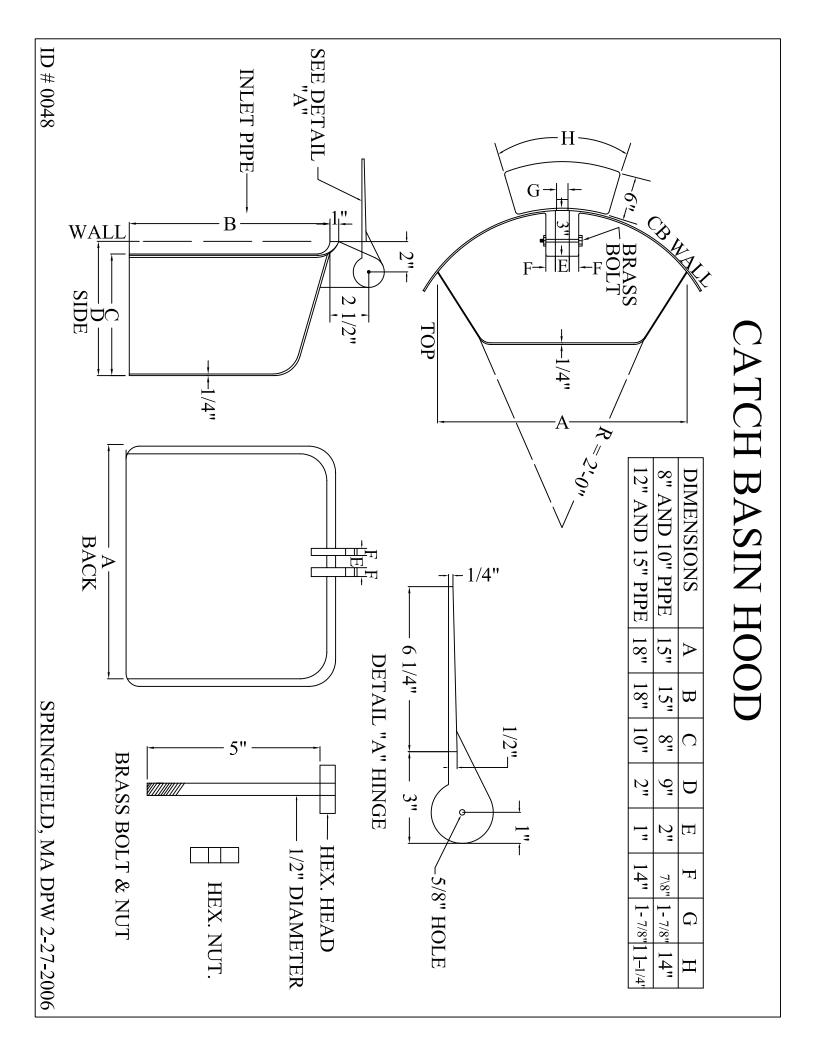


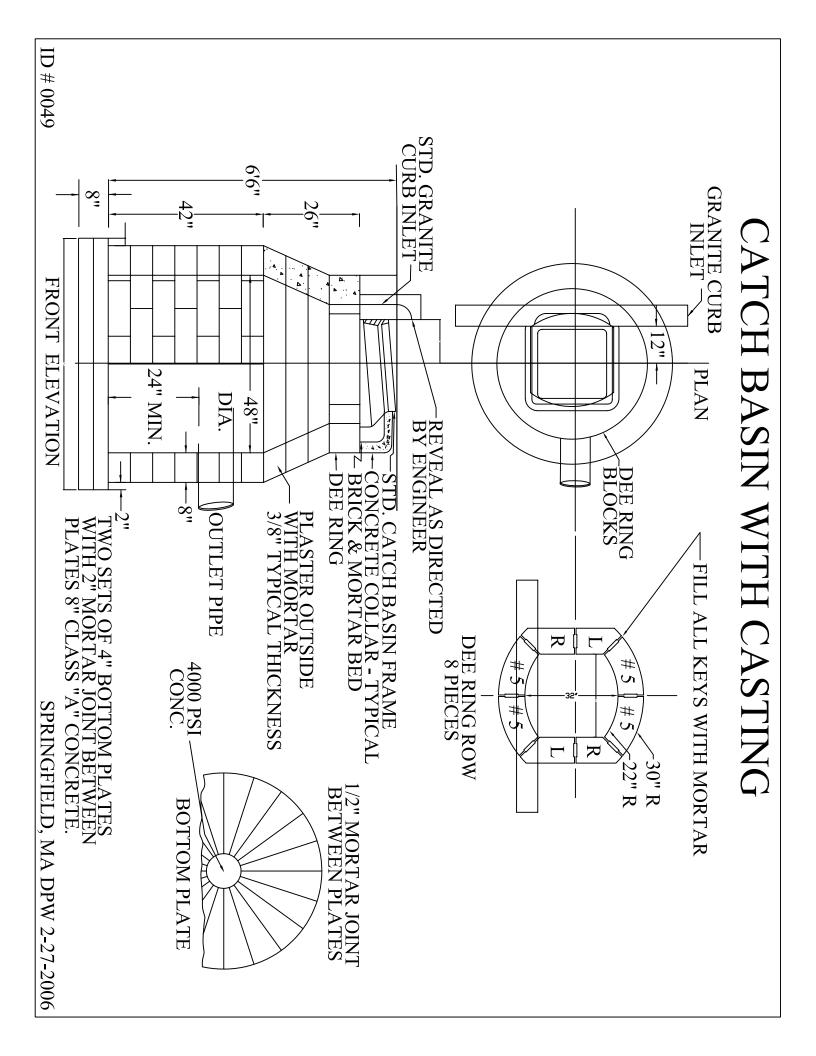
ID # 0046 STANDARD 8" PVC PIPE AND T VARIABLE LENGTH @ -10% CATCH BASIN WITH PERFORATED PIPE OUTLET SEE PIPE TRENCH DETAIL 8" PERFORATED PVC PIPE @ -5.0% (APPROX. 20') 24"<u>.</u> MIN. SEE PIPE TRENCH DETAIL 24" MIN REMOVEABLE) 48" MIN 6' GRANITE CURB INLET -REVEAL AS DIRECTED BY ENGINEER STD. CATCH BASIN FRAME CONCRETE COLLAR - TYPICAL BRICK & MORTAR BED FILL ALL KEYS WITH MORTAR WITH 2" MORTAR JOINT BETWEEN PLATES 8" CLASS "A" CONCRETE. TWO SETS OF 4" BOTTOM PLATES SPRINGFIELD, MA DPW 2-27-2006





- USE 1.00' OF WASHED STONE SURROUNDING & UNDER ALL GALLEYS.
- USE FILTER FABRIC AROUND STONE.
- MIN. CONCRETE STRENGTH4000# CLASS D ALL H-20 LOADING SOLID CONCRETE BOTTOM FOR CLEANING





SPRINGFILED SEAL



SPRINGFIELD, MA DPW 2-27-2006

KEY

× □ ¾ FIRE HYDRANT CATCH BASIN MAIL BOX

DRAINAGE MANHOLE SANITARY MANHOLE

EXISTING SB PROP. GSB

GUY POLE

UTILITY POLE STUMP TREE IRON PIN

IRON BAR

KEY

FIRE HYDRANT CATCH BASIN

MAIL BOX

 \bigcirc DRAINAGE MANHOLE

⊙ SANITARY MANHOLE

EXISTING SB IRON PIN WETLAND FLAGGING

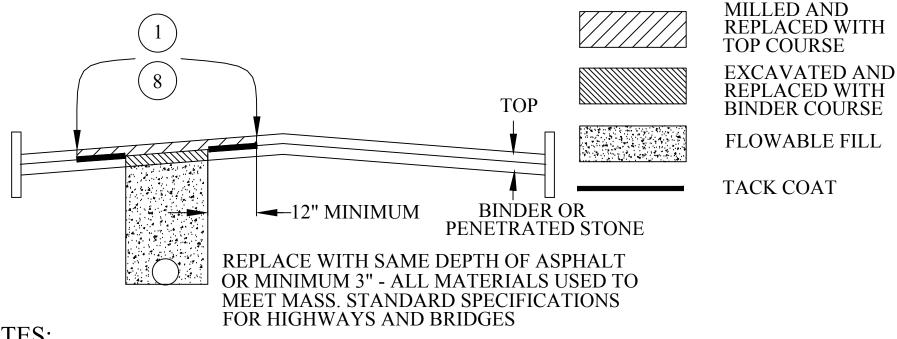
STUMP TREE **GUY POLE** UTILITY POLE

WATERGATE

GASGATE IRON BAR

PROP. GSB

TRENCH REPAIR SPECIFICATION RESIDENTIAL STREET

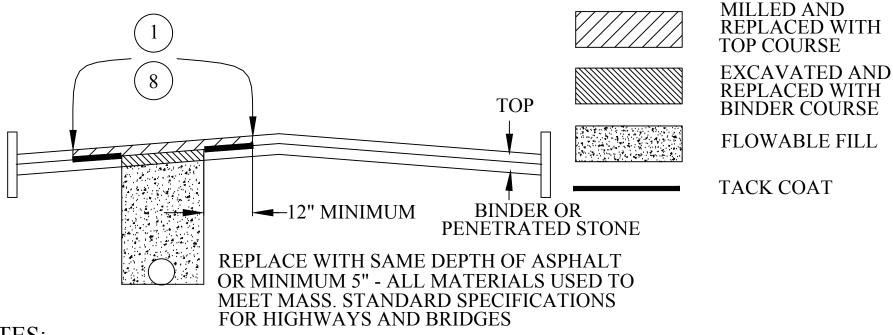


NOTES:

- 1. SAW CUT OUTER EDGE OF UTILITY PATCH
- 2. MILL TO REMOVE TOP COURSE
- 3. LEAVE 12" MIN. LIP BETWEEN EDGE OF TOP AND EDGE OF BINDER COURSE
- 4. AFTER TRENCH WORK COMPLETED, FILL AROUND PIPE TO BOTTOM
- 5. REPLACE ONE LAYER OF BINDER
- 6. TACK AREA OF MILLING
- 7. REPLACE TOP COURSE
- 8. SEAL EDGES OF UTILITY PATCH WITH HOT POURED RUBBERIZED ASPHALT SEALANT
- 9. ALL ROAD CUTS 2' OR LESS FROM THE CURB MUST BE MILLED AND REPAIRED FROM THE OUTER MOST EDGE OF CUT TO THE CURB.

2-B SPECIFICATION FOR PATCHING BIT. CONC. ROADWAYS (CON'T.)

TRENCH REPAIR SPECIFICATION ARTERIAL STREET

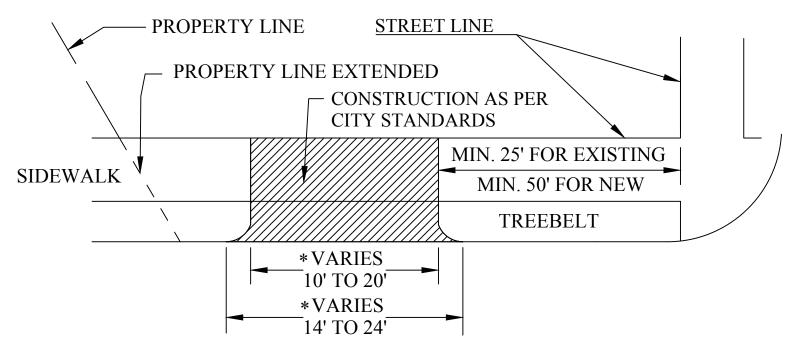


NOTES:

- 1. SAW CUT OUTER EDGE OF UTILITY PATCH
- 2. MILL TO REMOVE TOP COURSE
- 3. LEAVE 12" MIN. LIP BETWEEN EDGE OF TOP AND EDGE OF BINDER COURSE
- 4. AFTER TRENCH WORK COMPLETED, FILL AROUND PIPE TO BOTTOM WITH FLOWABLE FILL
- 5. REPLACE LAYERS OF BINDER AND DEEP BASE
- 6. TACK AREA OF MILLING
- 7. REPLACE TOP COURSE
- 8. SEAL EDGES OF UTILITY PATCH WITH HOT POURED RUBBERIZED ASPHALT SEALANT
- 9. ALL ROAD CUTS 2' OR LESS FROM THE CURB MUST BE MILLED AND REPAIRED FROM THE OUTER MOST EDGE OF CUT TO THE CURB.

2-B SPECIFICATION FOR PATCHING BIT. CONC. ROADWAYS (CON'T.)

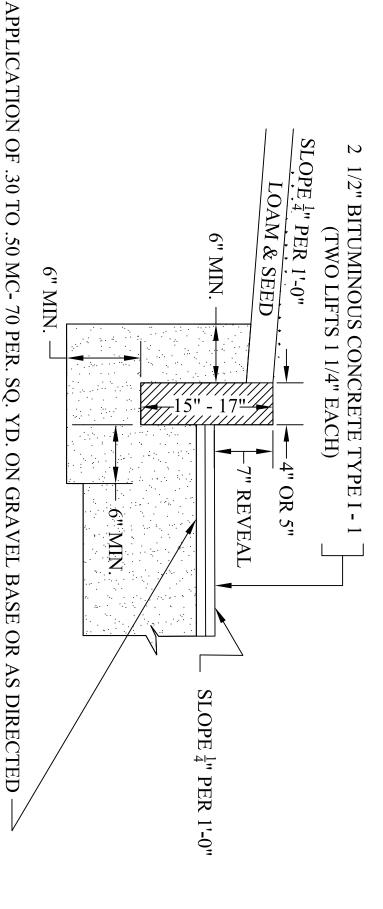
TYPICAL RESIDENTIAL DRIVEWAY



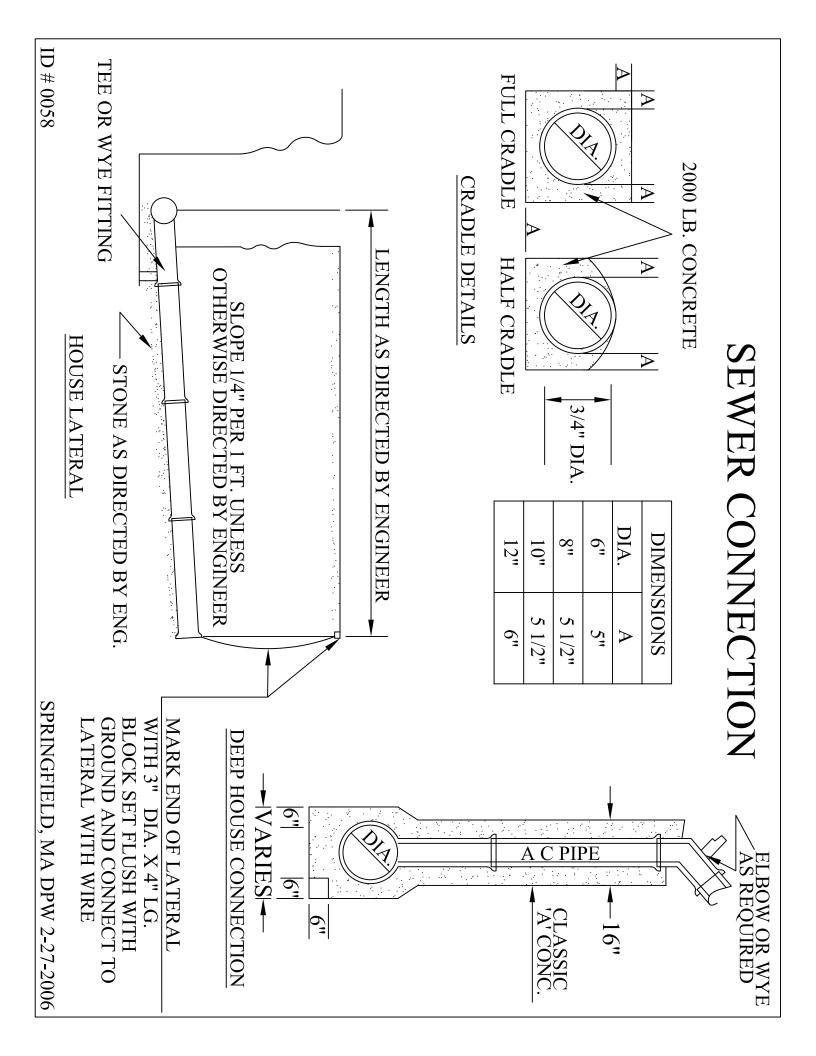
* WIDTH OF DRIVEWAY VARIES AS GEOMETRIC CONDITIONS ALLOW, DESIRABLE WIDTHS ARE 12' FOR A SINGLE AND 20' FOR DOUBLE DRIVEWAY

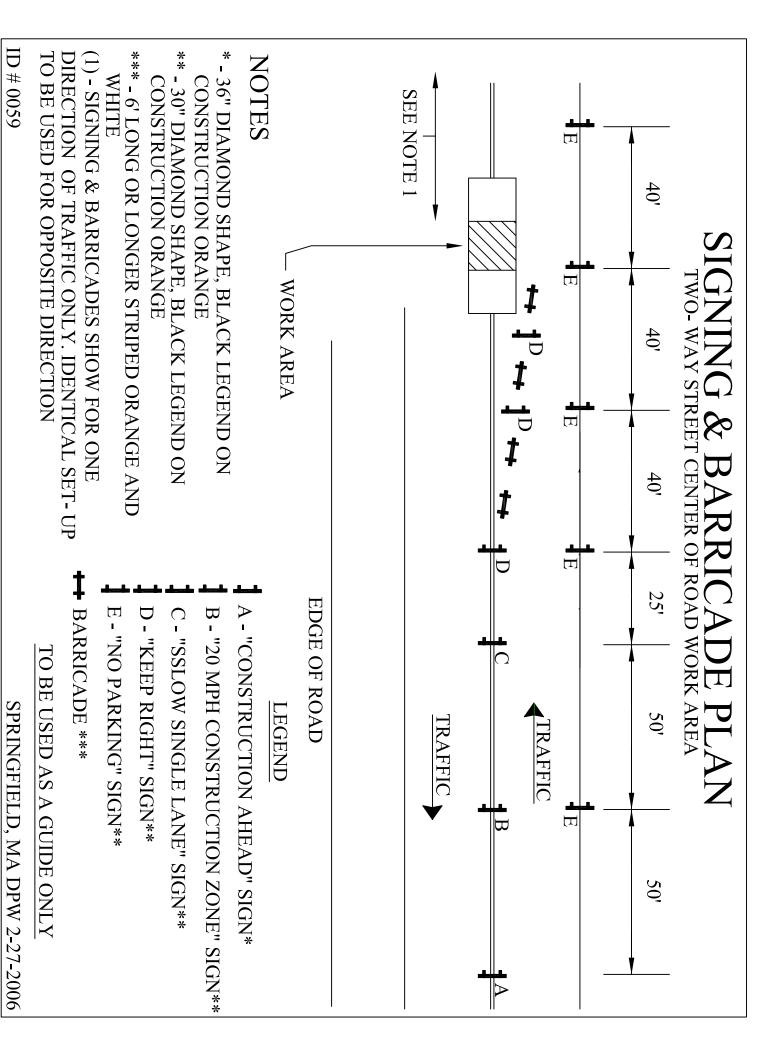
- STANDARD 2'-RADIUS CURB RETURNS SHALL BE UTILIZED
- ENTIRE DRIVEWAY INCLUDING 2'-RADIUS CURB RETURNS, MUST BE WITHIN THE PROP. LINES EXTENDED OF THE PROP. WHICH THE DRIVEWAY SERVES
- DRIVEWAY APRON MUST MEET SIDEWALK GRADE
- PORTION OF DRIVEWAY WITHIN THE PUBLIC WAY MUST BE CONSTRUCTED ACCORDING TO CITY SPECIFICATIONS
- IF ANY TREES, POLES, SIGNS OR UTILITIES ARE LOCATED WITHIN THE LIMITS OF THE PROPOSED DRIVEWAY, THE APPROPRIATE DEPARTMENT MUST BE NOTIFIED FOR REMOVAL OR RELOCATION OF SUCH
- CONDITIONS MAY TEND TO ALTER PROPOSED WIDTH AND LOCATION OF DRIVEWAY AND ANY VARIATIONS FROM THE STANDARDS SHOWN MUST BE APPROVED BY THE TRAFFIC ENGINEER

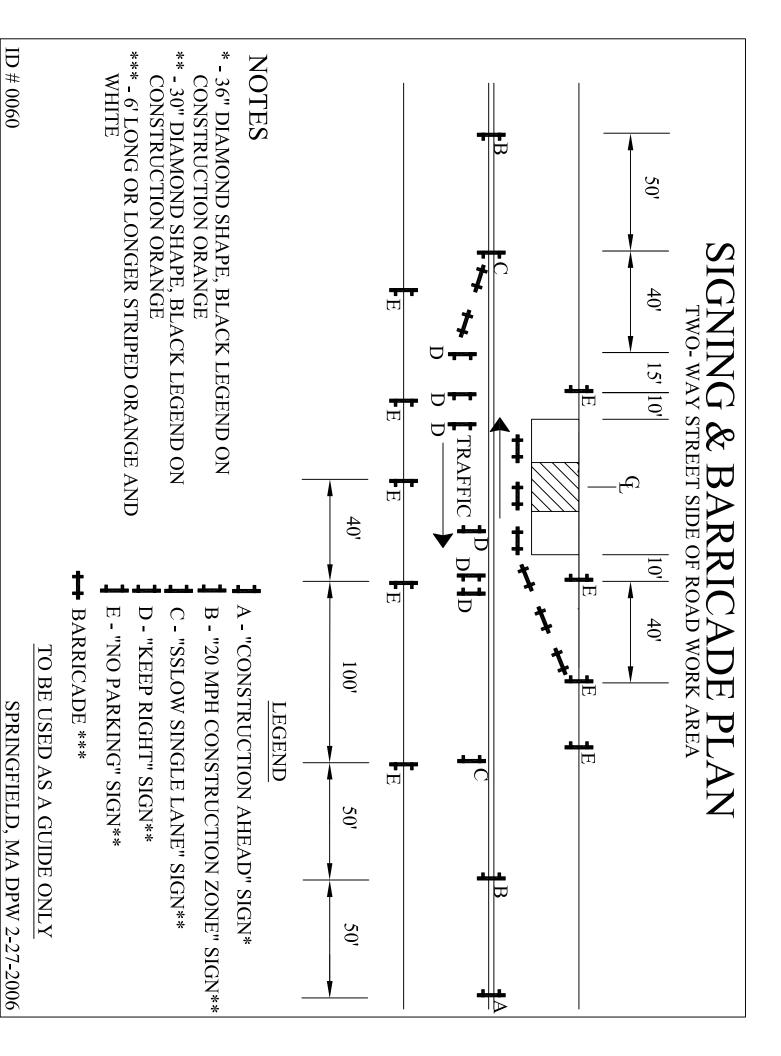
GRANITE CURBS

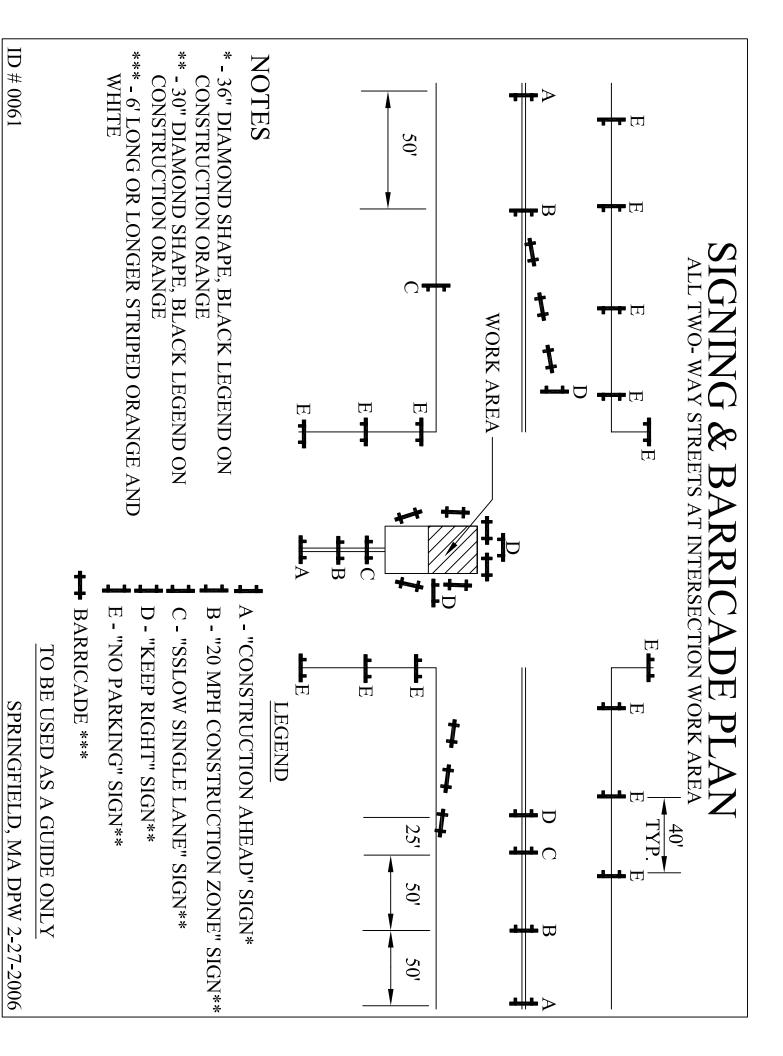


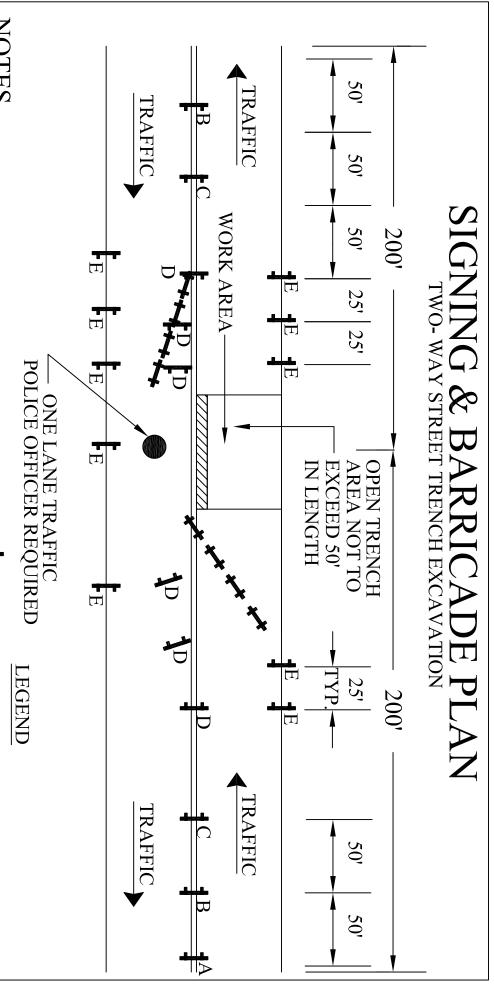
- TYPE VB, 4 "THICKNESS, MIN. OF 6' LENGTH GRANITE CURBING FOR RESIDENTAL STREETS TYPE VB, 5 "THICKNESS, MIN. OF 6' LENGTH GRANITE CURBING FOR ALL OTHER TYPES OF
- STREETS
- TYPE "A" GRANITE CURB CORNERS FOR ALL TYPES OF SUBDIVISION EXCEPT "ROUNDED CORNER CURBING" MAY BE SUBSTITUTED AT DESCRESTION OF THE DIRECTOR OF THE DEPARTMENT OF PUBLIC WORKS











NOTES

- * 36" DIAMOND SHAPE, BLACK LEGEND ON CONSTRUCTION ORANGE
- ** 30" DIAMOND SHAPE, BLACK LEGEND ON CONSTRUCTION ORANGE
- *** 6' LONG OR LONGER STRIPED ORANGE AND WHITE

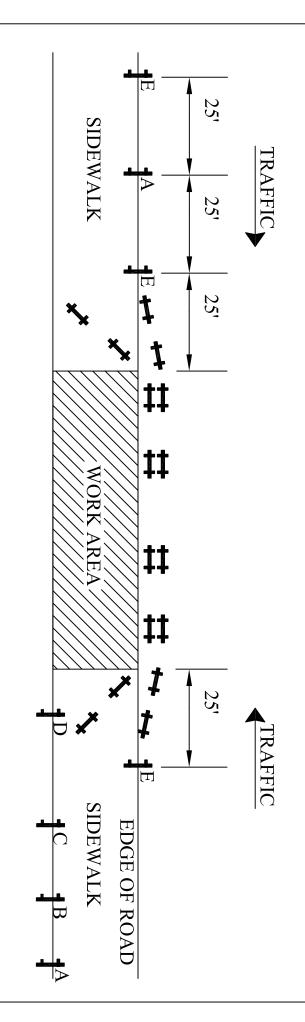
- A "CONSTRUCTION AHEAD" SIGN*
- **B-** "20 MPH CONSTRUCTION ZONE" SIGN**
- C "SSLOW SINGLE LANE" SIGN**
- D "KEEP RIGHT" SIGN**
- E "NO PARKING" SIGN**

\$ BARRICADE ***

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SIGNING & BARRICADE PLAN SIDEWALK & TREEBELT AREA



NOTES

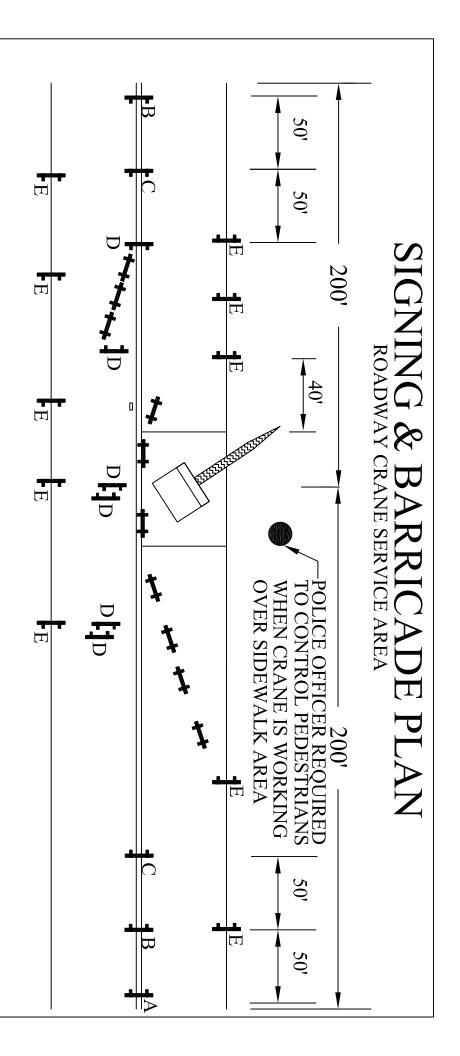
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LEGEND

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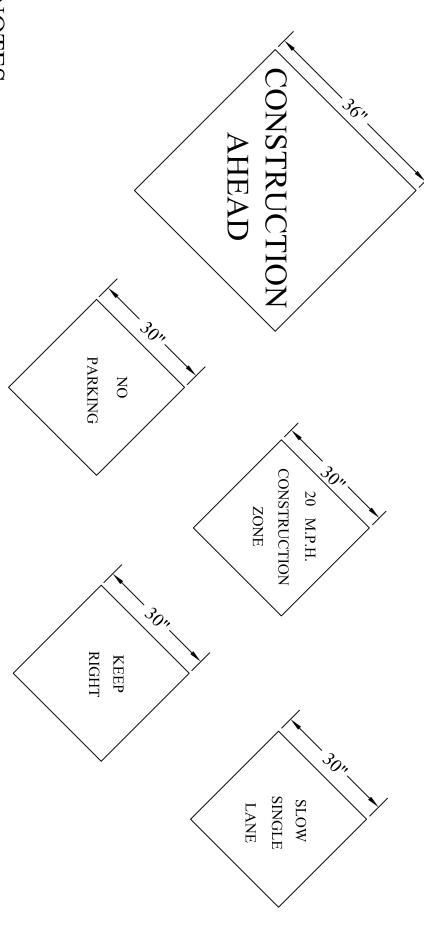
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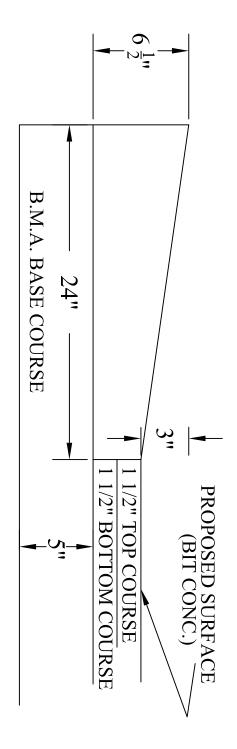
SIGN FACE DETAILS

THE NOTED SIGNS ARE AS FOLLOWS:



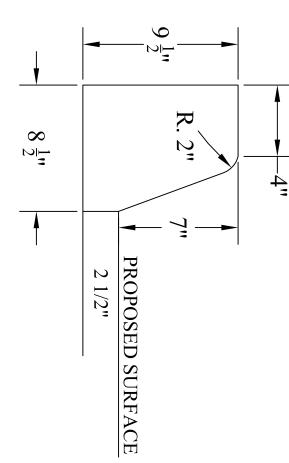
- ALL SIGNS SHALL BE BLACK LEGEND ON REFLECTORIZED CONSTRUCTION ORANGE BACKROUND
- ALL TRAFFIC AND / OR PEDESTRIAN DETOURS SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE APPROPRIATE PLAN AS CONTAINED IN THIS SECTION

BERM TYPE A



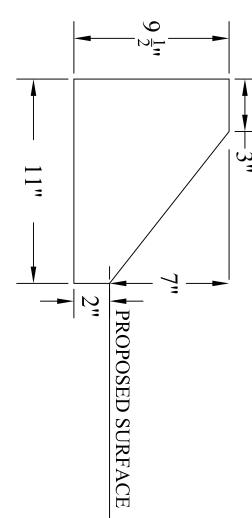
NOTES:

- USED PRIMARILY ON INTERSTATE PROJECTS



NOTES:

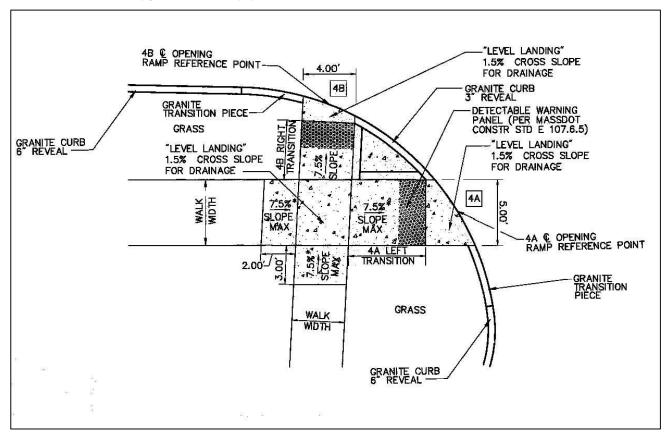
- METHOD OF CONSTRUCTION OF FOUNDATION FOR TYPES C AND D SAME AS FOR TYPE B DEPENDING ON KIND OF SURFACE



NOTES:

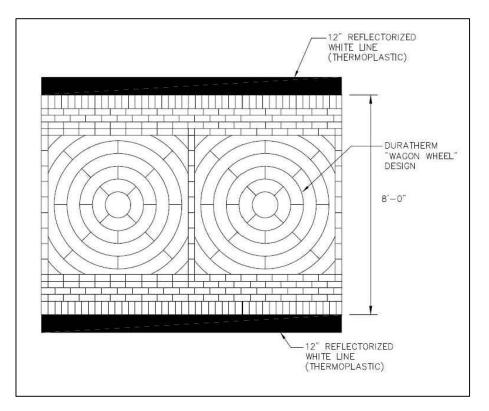
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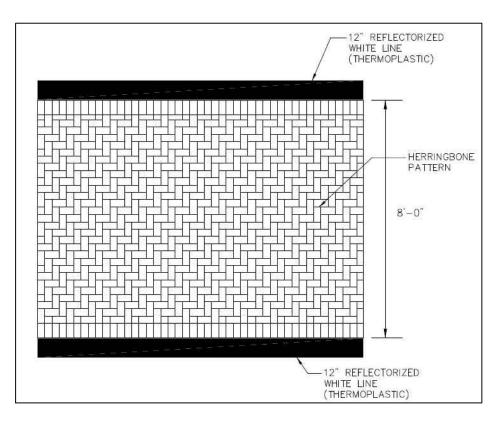
SIDEWALK REPAIR



- IF EXCAVATION OCCURS ON A SIDEWALK AT AN INTERSECTION, CONTRACTOR IS REQUIRED TO REMOVE ENTIRE SIDEWALK WHEELCHAIR RAMP, ADJUST CURB, AND REPLACE TO CURRENT MASSDOT/A.D.A. GUIDELINES.
- IF NO CURRENT RAMP EXISTS, CONTRACTOR IS REQUIRED TO INSTALL RAMP AND ADJUST CURB TO MEET CURRENT MASSDOT/A.D.A. GUIDELINES.
- WIRE MESH REINFORCEMENT CONFORMING TO AASHTO-M55 OR ASTM A185-79 WILL BE REQUIRED.

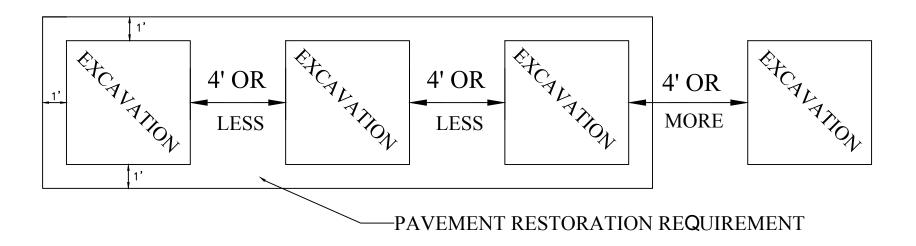
IMPRINT OR INLAYED CROSSWALK REPAIR





- IF ANY EXCAVATION OR SURFACE PAVEMENT IMPROVEMENT OCCURS OF ANY LOCATION WITHIN THE CITY OF SPRINGFIELD WHERE EXISTING IMPRINTED OR INLAYED CROSS WALKS EXIST, THE CONTRACTOR IS REQUIRED TO REPLACE INKIND WITH THE EXACT MATERIAL AND COLOR AS ORIGINALLY INSTALLED.
- INSTALLATIONS MUST BE COMPLETED BY AN INSTALLER APPROVED BY THE CITY OF SPRINGFIELD.
- ABUTTING PAVEMENT MARKINGS MUST ALSO BE REPLACED.

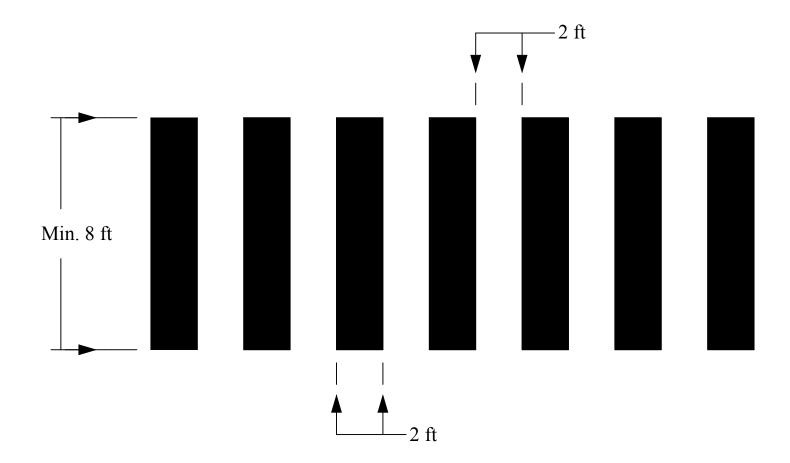
MULTIPLE EXCAVATION REPAIR



- APPLIES TO ANY ROADWAY EXCAVATION THAT RESULTS IN MULTIPLE PENETRATIONS PERMFORMED LESS THAN 4' OF ONE ANOTHER UNDER A SINGLE PERMIT.
- APPLIES TO ANY ROADWAY EXCAVATIONS THAT ARE PERMORMED WITHIN 2 MONTHS OF ANY OTHER PERMIT ISSUED TO THE SAME CONTRACTOR/UTILITY AT A SPECIFIC LOCATION.
- EXISTING PAVEMENT REMAINING SHALL BE MILLED AND OVERLAYED (1.5" RESIDENTIAL + 2" ARTERIAL) AS SHOWN ABOVE.

CROSSWALK DETAIL

CONTINENTAL STYLE



- CITY OF SPRINGFIELD STANDARD CROSSWALK DETAIL
- THIS DETAIL TO BE USED ON ALL NEW PAVEMENT PROJECTS
- ALL CROSSWALKS SHALL HAVE A MINIMUM WIDTH OF 8 FT