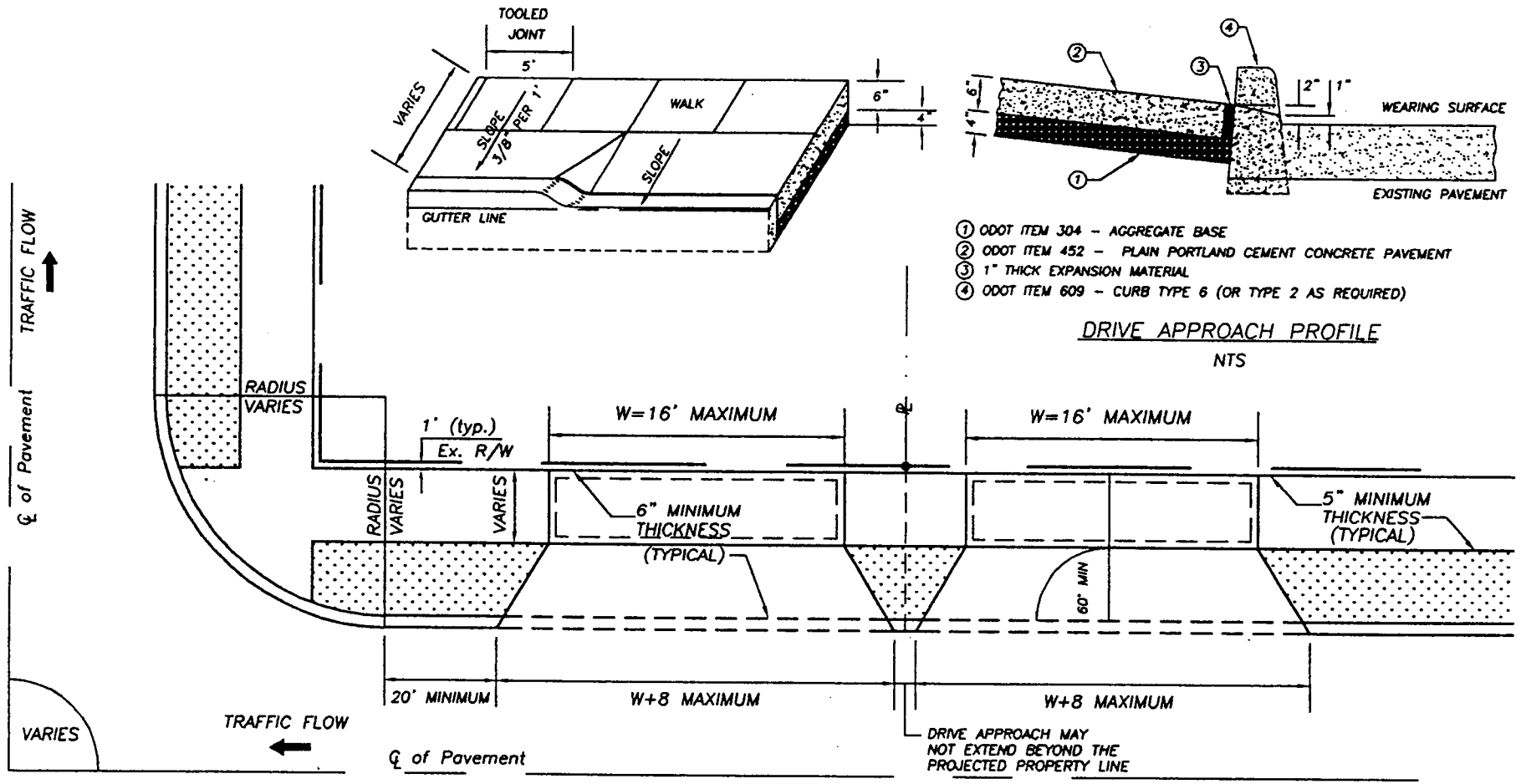


① ODOT ITEM 304 – AGGREGATE BASE
② ODOT ITEM 452 – PLAIN PORTLAND CEMENT CONCRETE PAVEMENT
③ 1" THICK EXPANSION MATERIAL
④ ODOT ITEM 609 – CURB TYPE 6 (OR TYPE 2 AS REQUIRED)

DRIVE APPROACH PROFILE

NTS

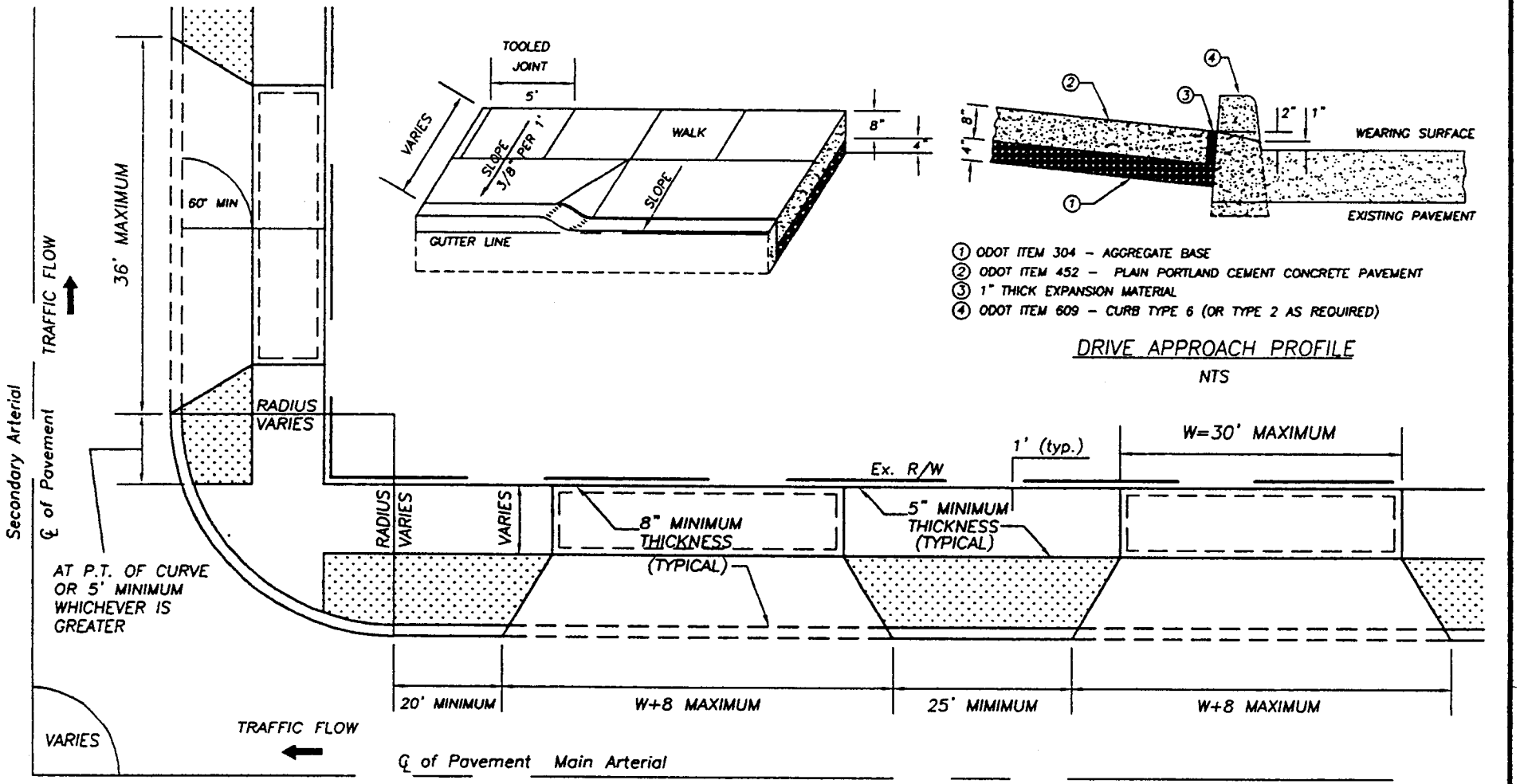
GENERAL NOTES

1. A PLOT PLAN OF THE PROPOSED DRIVE APPROACH SHALL BE SUBMITTED BEFORE APPROVAL MAY BE GIVEN
2. NO CURB CUT REMOVAL OR DRIVE APPROACH WILL BE PERMITTED TO BE EXTENDED BEYOND ADJACENT PROPERTY LINE
3. MINIMUM APPROACH ANGLE SHALL BE 60° AS SHOWN IN ABOVE DRAWING
4. DRIVE APPROACH IN SIDEWALK AREA SHALL CONSIST OF 6" OF ODOT ITEM 452 – PLAIN PORTLAND CEMENT CONCRETE PAVEMENT
5. SIDEWALK NOT IN DRIVE APPROACH SHALL BE 5" THICK, CLASS "C" CONCRETE
6. HORIZONTAL SAW CUTTING OF EXITSTING CURB AT DRIVE APPROACH IS NOT ALLOWED. EXISTING CURB SHALL BE REMOVED AND NEW CAST IN PLACE CONCRETE SHALL BE POURED ACCORDING TO THE ABOVE DRAWINGS
7. WHEN IT IS NECESSARY TO ABANDON OR REMOVE AN EXISTING DRIVE APPROACH, NEW CAST IN PLACE TYPE 6 CURB, (ODOT ITEM 609), SHALL BE INSTALLED.

CITY OF YOUNGSTOWN
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

STANDARD CONSTRUCTION DRAWING DA-R-1
RESIDENTIAL DRIVE APPROACHES AND SIDEWALK

DATE 3-11-57 SCALE NTS
REV: 10-26-01



DRIVE APPROACH PROFILE

NTS

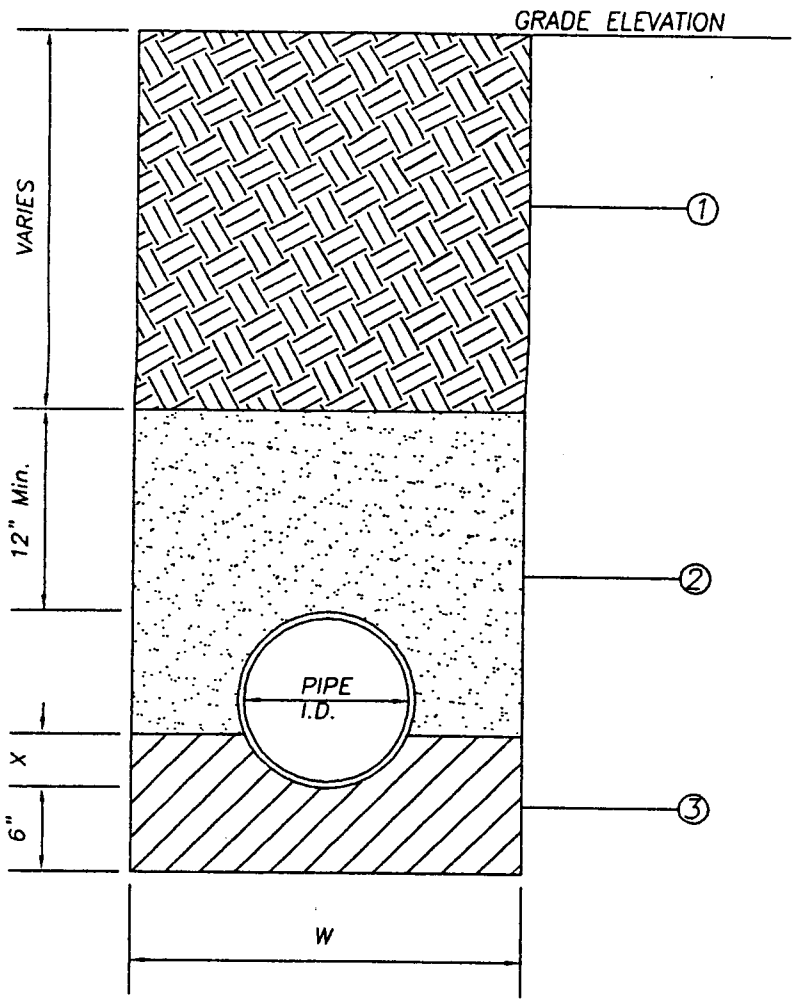
GENERAL NOTES

1. A PLOT PLAN OF THE PROPOSED DRIVE APPROACH SHALL BE SUBMITTED BEFORE APPROVAL MAY BE GIVEN
2. NO CURB CUT REMOVAL OR DRIVE APPROACH WILL BE PERMITTED TO BE EXTENDED BEYOND ADJACENT PROPERTY LINE
3. MINIMUM APPROACH ANGLE SHALL BE 60° AS SHOWN IN ABOVE DRAWING
4. DRIVE APPROACH IN SIDEWALK AREA SHALL CONSIST OF 8" OF ODOT ITEM 452 – PLAIN PORTLAND CEMENT CONCRETE PAVEMENT
5. SIDEWALK NOT IN DRIVE APPROACH SHALL BE 5" THICK, CLASS "C" CONCRETE
6. HORIZONTAL SAW CUTTING OF EXITSTING CURB AT DRIVE APPROACH IS NOT ALLOWED. EXISTING CURB SHALL BE REMOVED AND NEW CAST IN PLACE CONCRETE SHALL BE POURED ACCORDING TO THE ABOVE DRAWINGS
7. WHEN IT IS NECESSARY TO ABANDON OR REMOVE AN EXISTING DRIVE APPROACH, NEW CAST IN PLACE TYPE 6 CURB, (ODOT ITEM 609), SHALL BE INSTALLED.

CITY OF YOUNGSTOWN
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

STANDARD CONSTRUCTION DRAWING DA-C-1
COMMERCIAL DRIVE APPROACHES AND SIDEWALK

DATE 3-11-57 SCALE NTS
REV: 10-26-01



X = 30 PERCENT OF OUTSIDE PIPE DIAMETER

MINIMUM TRENCH WIDTHS FOR THERMOPLASTIC PIPE IN A CUT	
INSIDE DIAMETER INCHES	MINIMIM TRENCH WIDTH, W INCHES
6	20
8	22
12	30
15	34
18	38
21	43
24	48
30	57
36	63
42	72
48	80
54	89
60	96

① OPTIONAL BACKFILL

② GRANULAR BACKFILL ODOT ITEM – 304

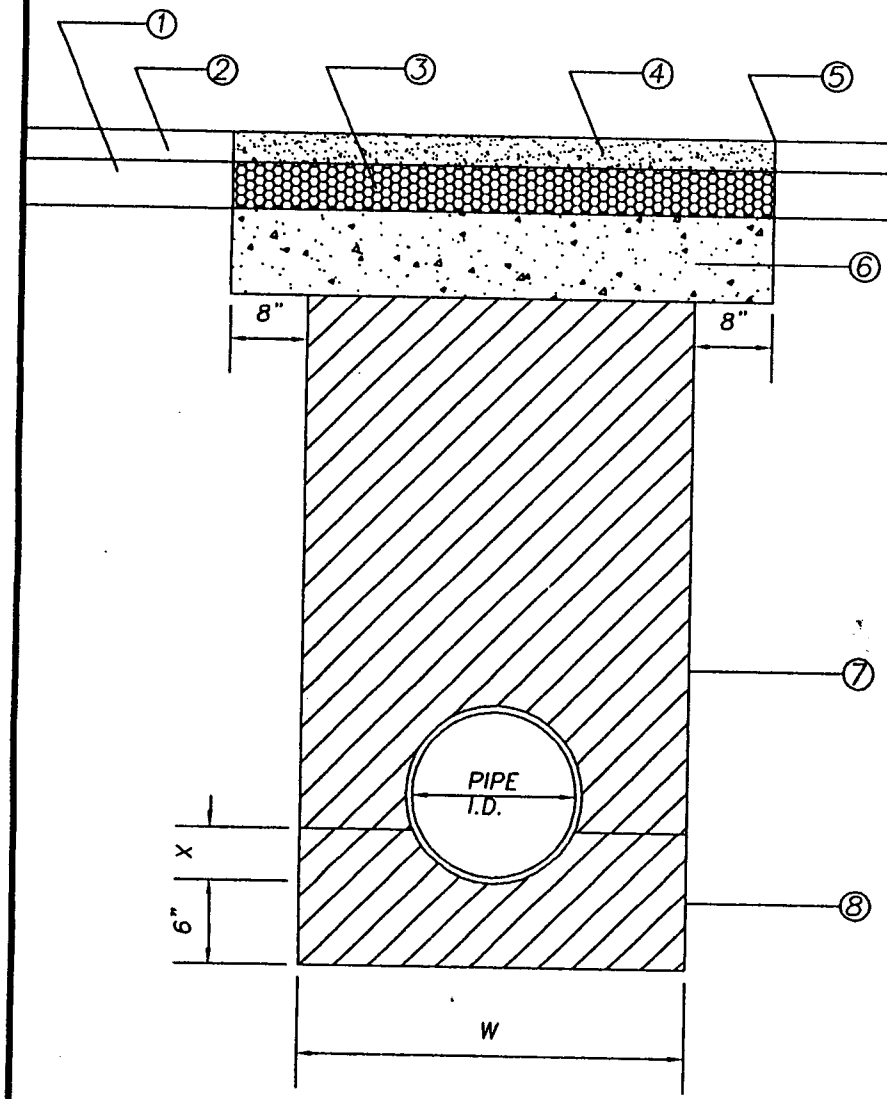
③ GRANULAR BEDDING (CLASS B) ODOT ITEM – 304
(SEE CURRENT ODOT CONSTRUCTION AND MATERIALS SPEC. SECTION 603.04)

TRENCH DETAIL NOT IN ROADWAY "TYPE C"

CITY OF YOUNGSTOWN
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

STANDARD CONSTRUCTION
DRAWING S-1
PIPE BEDDING DETAIL
NOT IN ROADWAY

DATE 3-11-57 SCALE NTS
REV: 10-26-01



X = 30 PERCENT OF OUTSIDE PIPE DIAMETER

① EXISTING ASPHALTIC CONCRETE BASE COURSE

② EXISTING ASPHALTIC CONCRETE SURFACE COURSE

③ ODOT ITEM – 448 TYPE II, ASPHALT CONCRETE INTERMEDIATE COURSE VARIABLE DEPTH, MATCH EXISTING INTERMEDIATE COURSE

④ 1" ODOT ITEM – 448 TYPE I, ASPHALT CONCRETE SURFACE COURSE

⑤ NEAT SAWN JOINT TO BE SEALED AS PER ODOT 401.15

⑥ 8" ODOT ITEM – 305 PLAIN PORTLAND CEMENT CONCRETE BASE

⑦ GRANULAR BACKFILL ODOT ITEM – 304 COMPACTED IN 8" LIFTS

⑧ GRANULAR BEDDING (CLASS B) ODOT ITEM – 304
(SEE CURRENT ODOT CONSTRUCTION AND MATERIALS SPEC. SECTION 603.04)

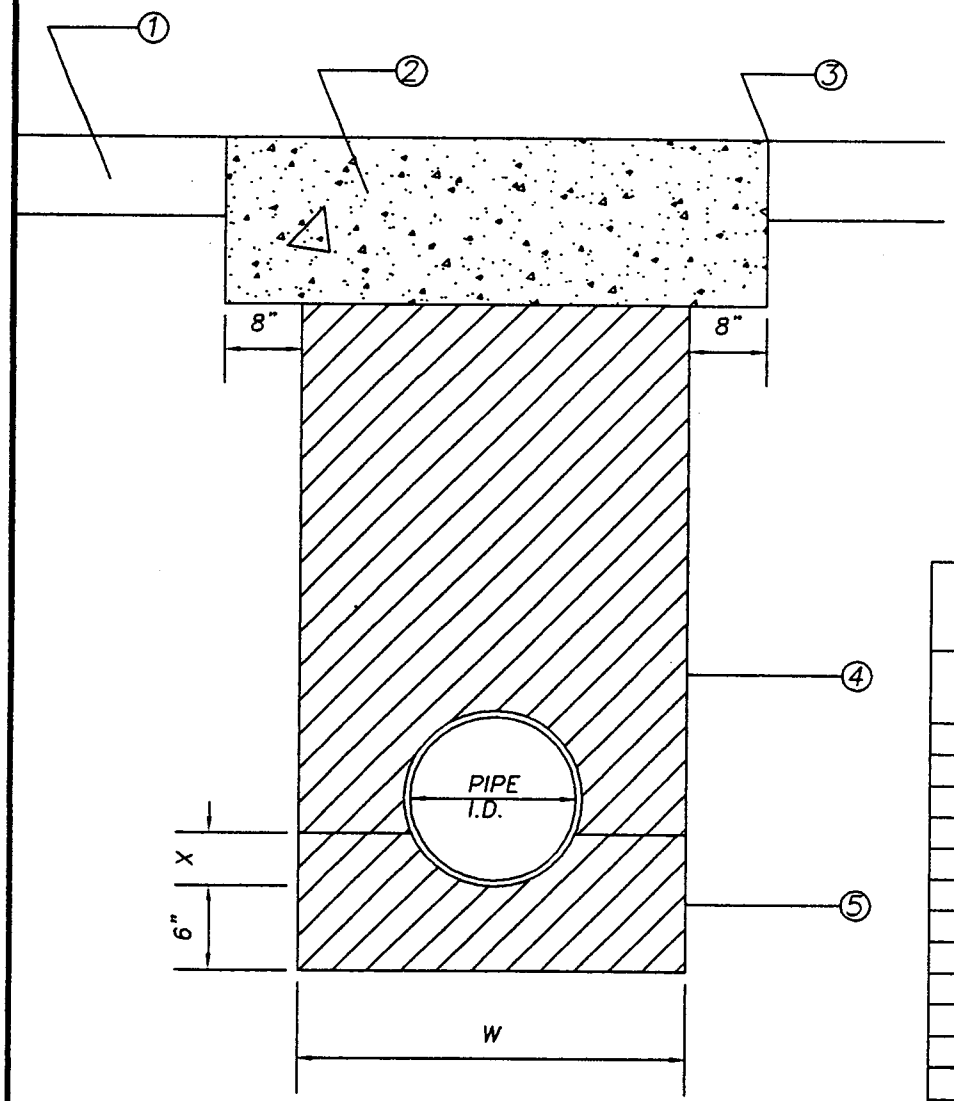
MINIMUM TRENCH WIDTHS FOR PIPE IN A CUT	
INSIDE DIAMETER INCHES	MINIMIM TRENCH WIDTH, W INCHES
6	20
8	22
12	30
15	34
18	38
21	43
24	48
30	57
36	63
42	72
48	80
54	89
60	96

TRENCH DETAIL ASPHALT ROADWAY "TYPE B"

CITY OF YOUNGSTOWN
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

STANDARD CONSTRUCTION
DRAWING SC-1
PIPE BEDDING AND ROADWAY
RESTORATION, ASPHALT ROAD

DATE 2-21-96 SCALE NTS
REV: 12-6-01



X = 30 PERCENT OF OUTSIDE PIPE DIAMETER

① EXISTING CONCRETE PAVEMENT

② 8" ODOT ITEM – 452 PLAIN PORTLAND CEMENT CONCRETE PAVEMENT

③ NEAT SAWN JOINT TO BE SEALED AS PER ODOT 401.15

④ GRANULAR BACKFILL ODOT ITEM – 304 COMPACTED IN 8" LIFTS

⑤ GRANULAR BEDDING (CLASS B) ODOT ITEM – 304
(SEE CURRENT ODOT CONSTRUCTION AND MATERIALS SPEC. SECTION 603.04)

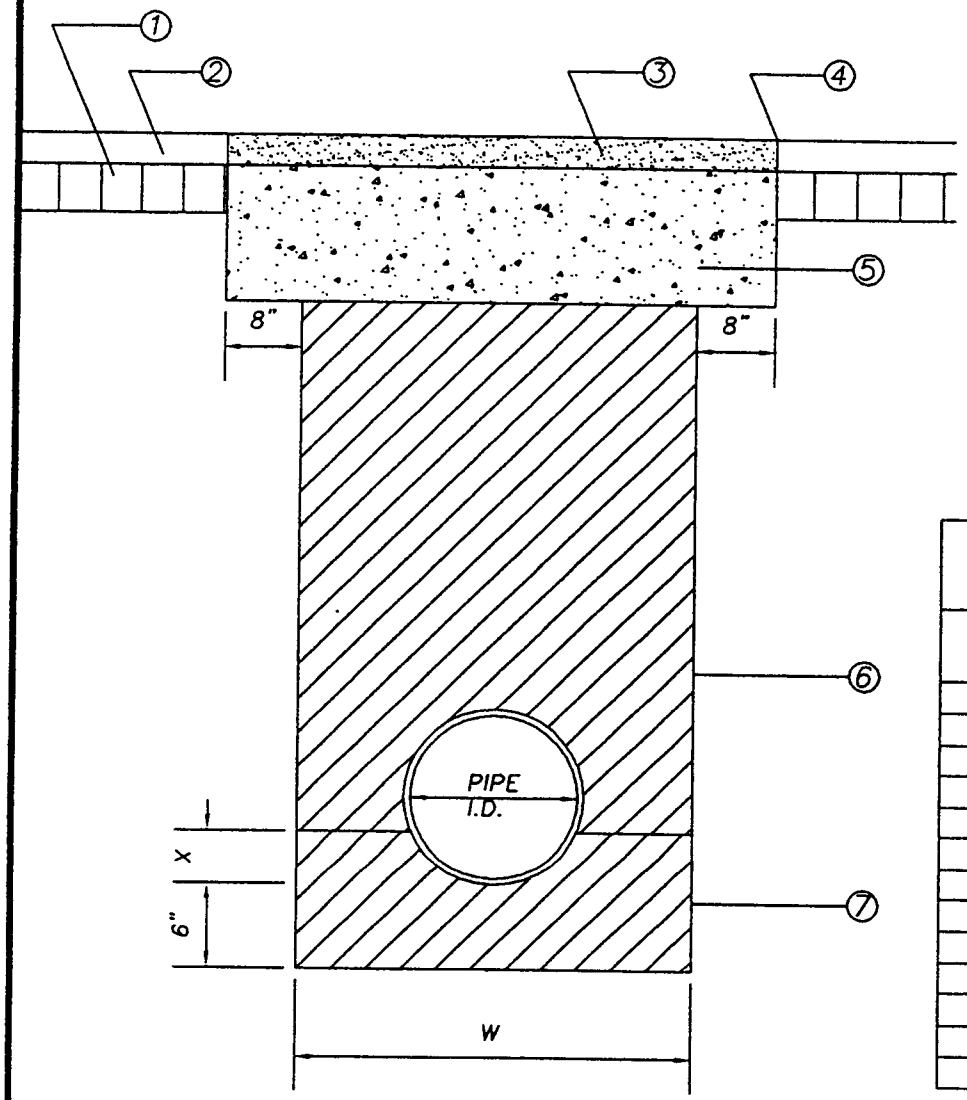
MINIMUM TRENCH WIDTHS FOR PIPE IN A CUT	
INSIDE DIAMETER INCHES	MINIMIM TRENCH WIDTH, W INCHES
6	20
8	22
12	30
15	34
18	38
21	43
24	48
30	57
36	63
42	72
48	80
54	89
60	96

TRENCH DETAIL CONCRETE ROADWAY "TYPE B"

CITY OF YOUNGSTOWN
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

STANDARD CONSTRUCTION
DRAWING SC-2
PIPE BEDDING AND ROADWAY
RESTORATION, CONCRETE ROAD

DATE 2-21-96 SCALE NTS
REV: 12-6-01



X = 30 PERCENT OF OUTSIDE PIPE DIAMETER

1. EXISTING BRICK PAVEMENT
2. EXISTING ASPHALTIC CONCRETE SURFACE COURSE
3. 1" ODOT ITEM – 448 TYPE I, ASPHALT CONCRETE SURFACE COURSE
4. NEAT SAWN JOINT TO BE SEALED AS PER ODOT 401.15
5. 11.5" ODOT ITEM – 305 PLAIN PORTLAND CEMENT CONCRETE BASE
6. GRANULAR BACKFILL ODOT ITEM – 304 COMPACTED IN 8" LIFTS
7. GRANULAR BEDDING (CLASS B) ODOT ITEM – 304
   (SEE CURRENT ODOT CONSTRUCTION AND MATERIALS SPEC. SECTION 603.04)

MINIMUM TRENCH WIDTHS FOR PIPE IN A CUT	
INSIDE DIAMETER INCHES	MINIMIM TRENCH WIDTH, W INCHES
6	20
8	22
12	30
15	34
18	38
21	43
24	48
30	57
36	63
42	72
48	80
54	89
60	96

TRENCH DETAIL ASPHALT/BRICK ROADWAY "TYPE B"

CITY OF YOUNGSTOWN
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

STANDARD CONSTRUCTION
DRAWING SC-3
PIPE BEDDING AND ROADWAY
RESTOR., ASPHALT/BRICK ROAD

DATE 2-21-96 SCALE NTS
REV: 12-6-01