

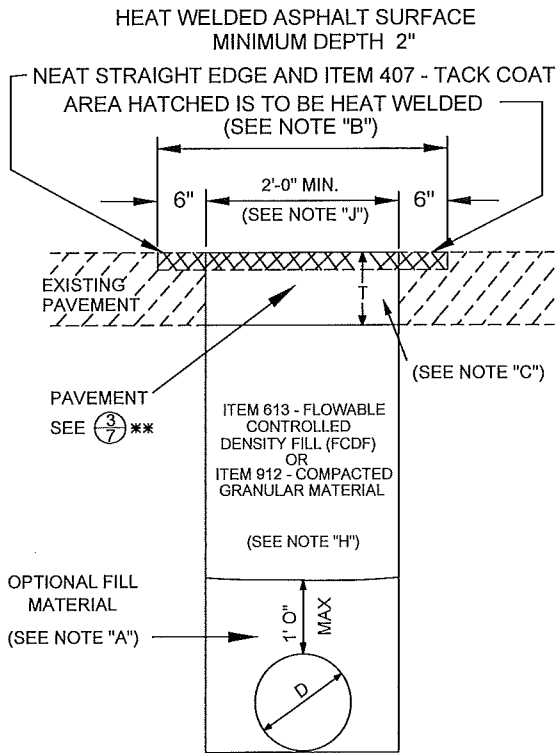
Standard Drawing Index

City of Columbus, Ohio
Department of Public Service
Division of Design and Construction

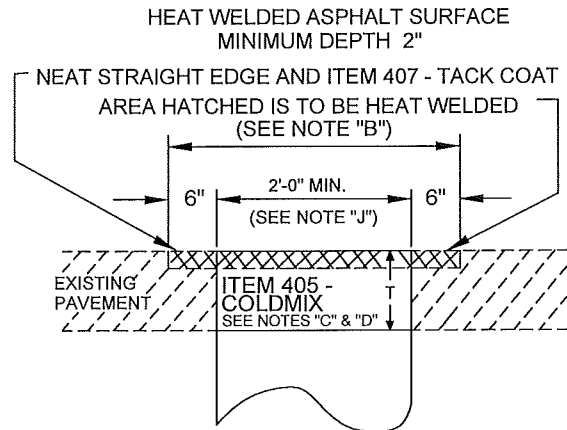
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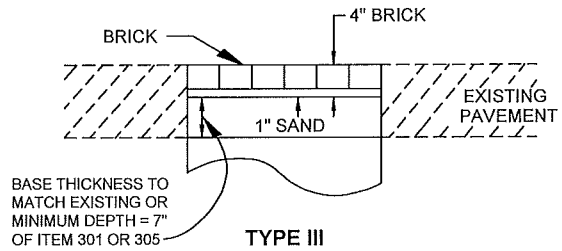
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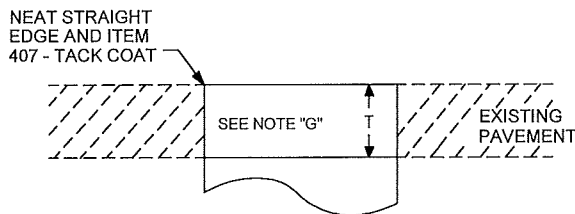
TYPE I
STANDARD FLEXIBLE ASPHALT REPAIR
WITH HEATWELD SURFACE
(SEE NOTE "B")



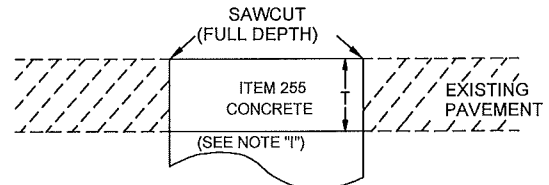
TYPE II
WINTER OPERATIONS FLEXIBLE ASPHALT
REPAIR WITH HEATWELD SURFACE
(SEE NOTE "E")



TYPE III
BRICK STREET REPAIR
(SEE NOTE "F")



TYPE IV
ALLEY REPAIR



TYPE V
CONCRETE STREET REPAIR
OR
CONCRETE BUS PAD

BACKFILL FOR ALL TYPES SHALL MEET THE REQUIREMENTS SHOWN IN TYPE I ABOVE.

T: MATCH EXISTING PAVEMENT THICKNESS, HOWEVER, MINIMUM OF 10" ON ALL STREET CUTS AND 6" ON ALL ALLEYS.

PAVEMENT & UTILITY CUT REPAIR STANDARDS

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CITY ENGINEER

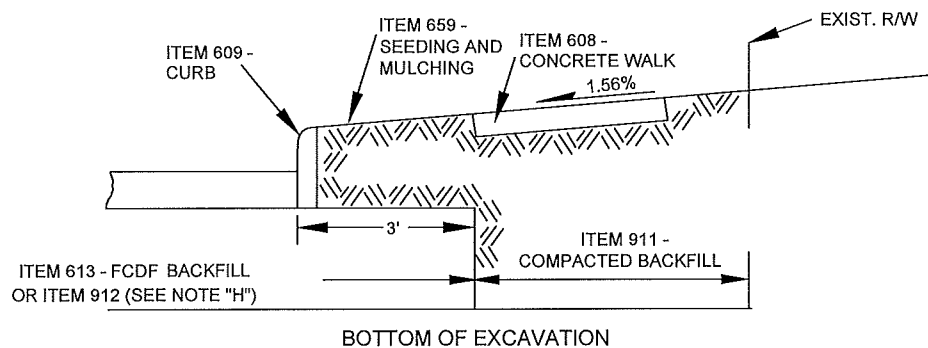
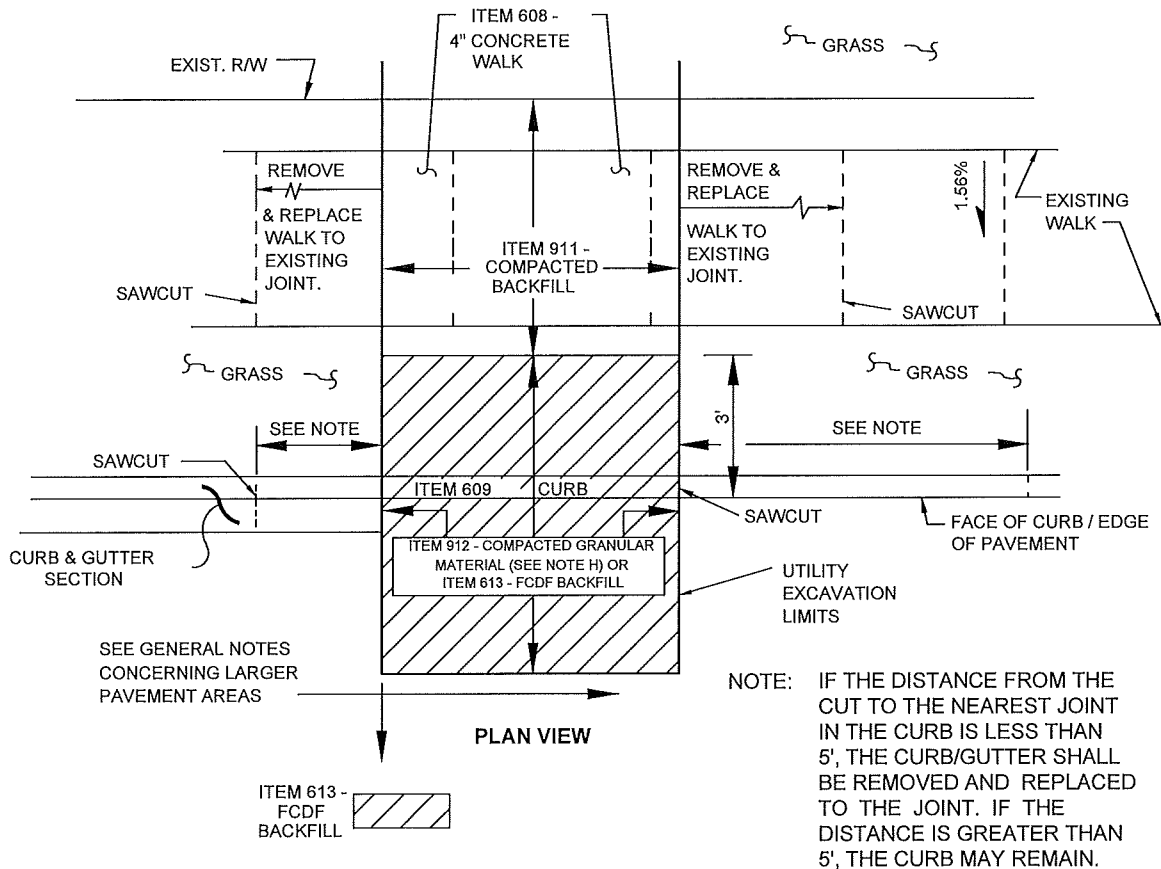
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SIDEWALK AND CURB REPAIR DETAILS



ALL GRASS AREAS SHALL BE SEEDED IN ACCORDANCE WITH ITEM 659 - SEEDING AND MULCHING.

PAVEMENT & UTILITY CUT REPAIR STANDARDS

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GENERAL NOTES

EXCAVATION PERMIT REQUIRED: A CITY OF COLUMBUS STREET EXCAVATION PERMIT IS REQUIRED FOR ALL EXCAVATIONS WITHIN THE PUBLIC RIGHT-OF-WAY, AS SET FORTH BY COLUMBUS CITY CODE, CHAPTER 903 AND ISSUED IN ACCORDANCE WITH PROVISIONS IN THE GENERAL RULES AND REGULATIONS OF THE DEPARTMENT OF PUBLIC SERVICE.

SCOPE OF WORK

THIS WORK SHALL CONSIST OF PAVEMENT REMOVAL, NECESSARY EXCAVATION, AND PAVEMENT REPLACEMENT IN ACCORDANCE WITH THE DETAILS SHOWN HEREIN. ALL WORK AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT CITY OF COLUMBUS CONSTRUCTION AND MATERIALS SPECIFICATION (CMSC).

PROCEDURES USED FOR THE PAVEMENT REMOVAL AND REPLACEMENT SHALL NOT CAUSE SPALLING OR CRACKING OF ADJACENT PAVEMENT.

WHEN THE PAVEMENT IS REMOVED AND THE CONTRACTOR IS UNABLE TO COMPLETE THE REQUIRED REPLACEMENT IN TIME FOR IT TO BE OPENED TO TRAFFIC AS INDICATED ON THE PERMIT, THE EXCAVATION SHALL BE FILLED WITH A BITUMINOUS PATCH MATERIAL WITH A DURABLE SURFACE OR PROPERLY PLATED. (AS PER CITY CODE CHAPTER 903 &/OR SHEET 7 OF THIS STANDARD DRAWING) THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN THESE PATCHES WHILE THEY ARE IN SERVICE. THE COST OF PLACING, MAINTAINING, AND REMOVING AND DISPOSING OF THE TEMPORARY PATCHES OR PLATES WILL BE AT THE CONTRACTOR'S EXPENSE.

WHEN ITEM 613 FCDF IS USED AS A BACKFILL, NO PAVEMENT SHALL BE PLACED UNTIL BLEED WATER HAS BEEN EVAPORATED FROM THE FCDF SURFACE OR HAS BEEN DRAINED OR REMOVED FROM THE SURFACE. ITEM 613 FCDF IS NOT PERMITTED AS A TEMPORARY DRIVING SURFACE.

THE BACKFILLING PAVEMENT REPAIR AND/OR HEAT WELDING SHALL BE DONE BY THE CONTRACTOR OR PERMITEE IN ACCORDANCE WITH CITY SPECIFICATIONS. IF DESIRED, ANY OR ALL OF THIS WORK CAN BE PERFORMED BY THE CITY OF COLUMBUS. THE CITY SHALL COLLECT APPROPRIATE FEES AT THE TIME THE PERMIT IS ISSUED FOR SAID WORK.

RESTORATION OF ANY SIDEWALK, CURB, STREET PAVEMENT, ETC., SHALL OCCUR NO LATER THAN 30 DAYS AFTER CONCLUSION OF ANY UTILITY REPAIR OR INSTALLATION ACTIVITY. CONSTRUCTION ACTIVITY COMPLETED DECEMBER THROUGH APRIL SHALL BE RESOLVED NO LATER THAN MAY 31ST. ADDITIONAL PERMITS SHALL NOT BE ISSUED UNTIL THE VIOLATIONS ARE CORRECTED TO THE SATISFACTION OF THE DEPARTMENT OF PUBLIC SERVICE. IN ADDITION, EACH VIOLATION MAY BE DEALT WITH IN ACCORDANCE WITH SECTION 903.99 OF THE COLUMBUS CITY CODE.

**** PAVING STANDARDS FOR LARGE TRENCHES OR PAVING AREAS**

THE PAVEMENT REPAIR SECTION SHALL CONFORM TO 3 INCHES OF ITEM 448 ASPHALT CONCRETE ON EITHER 7 INCHES OF ITEM 301 ASPHALT CONCRETE BASE OR ITEM 305 PORTLAND CEMENT CONCRETE BASE.

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WHEN A TRENCH EXCEEDS 100 FT IN LENGTH, THE REPAIR SHALL INCLUDE PLANING A FULL LANE WIDTH (OR ANY OTHER LANE WIDTH AS DIRECTED BY THE DEPARTMENT OF PUBLIC SERVICE) TO A DEPTH OF 1 ½ INCHES FOR THE ENTIRE LENGTH OF THE TRENCH. THE PLANED AREA SHALL THEN BE REPAVED WITH A PAVER IN ACCORDANCE WITH CURRENT CITY STANDARD SPECIFICATIONS. ITEM 423 - CRACK SEALING, TYPE 1 SHALL BE APPLIED TO EXPOSED JOINTS ONCE THE PAVING OPERATION HAS BEEN COMPLETED.

WHEN TRENCHING WORK CROSSES LANES, ALL AFFECTED LANES SHALL REQUIRE PLANING AND RESURFACING AS DESCRIBED ABOVE. THIS WORK SHALL INCLUDE ALL OF THE AFFECTED PAVEMENT AREA.

SPECIAL NOTES

NOTE 'A' : WHEN USING FLOWABLE CONTROLLED DENSITY FILL (FCDF), THE OPTIONAL FILL AREA OVER THE CONDUIT MAY BE BACKFILLED WITH SAND, GRANULAR MATERIAL, OR OTHER SUITABLE 912 MATERIAL, FOR A DISTANCE NOT TO EXCEED 1 FT. A PROTECTIVE BARRIER OF VISQUEEN OR SIMILAR MATERIAL IS PERMITTED.

NOTE 'B' : FOR TYPE I AND TYPE II CUT REPAIRS, THE AREA TO BE HEAT WELDED IS TO INCLUDE THE CUT AND EXTEND FOR 6 INCHES BEYOND EACH SIDE OF THE CUT FOR A NOMINAL DEPTH OF 2 INCHES.

NOTE 'C' : FOR TYPE I AND TYPE II PAVEMENT REPAIR, THE ITEM 448 HOT ASPHALT CONCRETE OR ITEM 405 COLD MIX SHALL BE PLACED IN LIFTS NOT EXCEEDING 3 INCHES AND COMPACTED WITH A COMBINATION VIBRATORY PLATE COMPACTOR, OR A VIBRATORY STEEL WHEELED ROLLER WITH A MINIMUM CERTIFIED FORCE OF 2000 POUNDS. IN ALL CASES THE SURFACE LIFT SHALL BE COMPACTED WITH THE VIBRATORY STEEL WHEELED ROLLER. WHEN PLACING ITEM 405 COLD MIX FULL DEPTH, MATERIAL TEMPERATURE SHALL BE 70 DEGREES OR ABOVE.

NOTE 'D' : COLD MIX SHALL BE ITEM 405 COLD MIX OR OTHER COLD MIX APPROVED BY THE CITY OF COLUMBUS. IN LIEU OF COLD MIX, THE CONTRACTOR MAY STOCKPILE ITEM 448 ASPHALT CONCRETE AND REHEAT IT TO PLACE IN CUT AS PAVEMENT REPAIR. TYPE II PAVEMENT REPLACEMENT SHALL CONSIST OF FULL DEPTH ITEM 405 COLD MIX FOR SMALL EXCAVATIONS. LARGE EXCAVATIONS SHALL REQUIRE A MINIMUM OF 7 INCHES OF FAST SETTING PORTLAND CEMENT AND 2 INCHES OF ITEM 405 COLD MIX.

NOTE 'E' : THE COLD MIX IS TO BE REPLACED WITH ITEM 448 ASPHALT CONCRETE WHICH IS TO BE HEAT WELDED AS SET FORTH IN NOTE 'B'. THIS WORK SHALL BE PERFORMED AS SOON AS ASPHALT IS AVAILABLE.

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NOTE 'F' : REPAIR OF BRICK STREETS

1. BRICKS REMOVED FROM A REPAIR AREA SHALL BE STORED IN A SAFE PLACE BY THE CONTRACTOR FOR REUSE. THE CONTRACTOR WILL BE RESPONSIBLE FOR REPLACING ANY BRICKS THAT ARE STOLEN OR DAMAGED, AT NO ADDITIONAL COST TO THE CITY.
2. IF BRICKS ARE SUPPLIED BY THE CONTRACTOR, THEY MUST FIRST BE APPROVED BY THE CITY BEFORE THEY ARE USED.
3. SAW CUTTING: ALL PARTIAL BRICKS SHALL BE SAWCUT. FURTHER, NO BRICK WILL BE PERMITTED TO BE CUT, FOR REPLACEMENT, TO A LENGTH LESS THAN $\frac{1}{2}$ ITS ORIGINAL LENGTH. THIS MAY REQUIRE SAW CUTTING OF ADJACENT UNDISTURBED BRICK(S).
4. THE EXISTING BASE MATERIAL SHALL BE CUT BACK TO AS NEARLY VERTICAL AS POSSIBLE. IF SHEARING OF THE ADJACENT BASE RESULTS, THE CONTRACTOR SHALL REMOVE ADDITIONAL BASE MATERIAL UNTIL A VERTICAL FACE IS ACHIEVED.
5. THE MAXIMUM WIDTH OF A BRICK MORTAR JOINT SHALL BE $\frac{1}{2}$ INCH. THIS RESTRICTION SHALL ALSO APPLY TO THE JOINT FORMED ADJACENT TO THE PERIMETER OF A REPAIR AREA, WHERE THE ROWS MAY NOT BE PARALLEL TO ONE ANOTHER.
6. MORTARING OF JOINTS: ALL JOINTS SHALL BE MORTARED WITH A 50/50 MIXTURE BY VOLUME OF SAND AND CEMENT SO AS TO PROVIDE A FLUSH FINISH. THIS MAY REQUIRE MORE THAN ONE APPLICATION. FURTHER, MECHANICAL VIBRATION WILL BE REQUIRED FOR CONSOLIDATION OF DRY MORTAR MIX.

NOTE 'G' : FOR ALLEY REPAIRS, THE PAVEMENT REPLACEMENT SHALL CONFORM TO THE TYPE AND THICKNESS OF THE EXISTING PAVEMENT. CHIP AND SEAL TYPE ALLEYS SHALL REQUIRE MATCHING THE EXISTING THICKNESS OF PAVEMENT WITH THE APPROPRIATE COMBINATION OF MATERIALS BASED ON THE SIZE OF THE EXCAVATION. THE MINIMUM SHALL CONSIST OF 6" OF ITEM 448 ASPHALT CONCRETE. FINISHED CONCRETE PAVEMENT IS NOT PERMITTED. MATERIALS USED SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT CMSC.

IF MORE THAN $\frac{1}{3}$ OF THE WIDTH OF AN ALLEY IS REMOVED, THE PAVEMENT SHALL BE REPLACED AS PER TYPE 1 AND THEN OVERLAYED OVER THE TOTAL WIDTH OF PAVEMENT AND LENGTH OF TRENCH.

NOTE 'H' : ITEM 912 - COMPACTED GRANULAR MATERIAL:

THIS METHOD OF BACKFILL CAN ONLY BE USED WITH FULL TIME CITY INSPECTION. AN INSPECTION FEE MUST BE POSTED WHEN THE PERMIT IS ISSUED.

NOTE 'I' : CONCRETE BASE OR PAVEMENT

IF PAVING REQUIREMENTS ALLOW FOR SUFFICIENT CURING TIME SO THAT FAST SETTING CONCRETE IS NOT NEEDED, STANDARD CONCRETE BASE OR PAVEMENT MAY BE PLACED AS PER THE CMSC. THIS OPTION MUST BE NOTED ON THE PERMIT APPLICATION AND APPROVED BY THE CITY OF COLUMBUS.

NOTE 'J' : THE TRENCH WIDTH FOR SMALL PIPES AND CONDUITS SHALL BE OF SUFFICIENT WIDTH TO ALLOW FOR THE PROPER PLACEMENT OF THE BACKFILL MATERIAL. THE PAVEMENT PORTION OF THE TRENCH SHALL BE A MINIMUM OF 2 FT IN WIDTH. THIS IS TO ALLOW FOR THE PROPER COMPACTION OF THE ASPHALT PAVEMENT. IF THE TRENCH FOR PLACING CONDUIT IS NARROWER THAN 2 FT THEN THE PAVEMENT PORTION SHALL BE CUT BACK TO PROVIDE THE 2 FT MINIMUM FOR PAVING OPERATIONS.

PAVEMENT & UTILITY CUT REPAIR STANDARDS

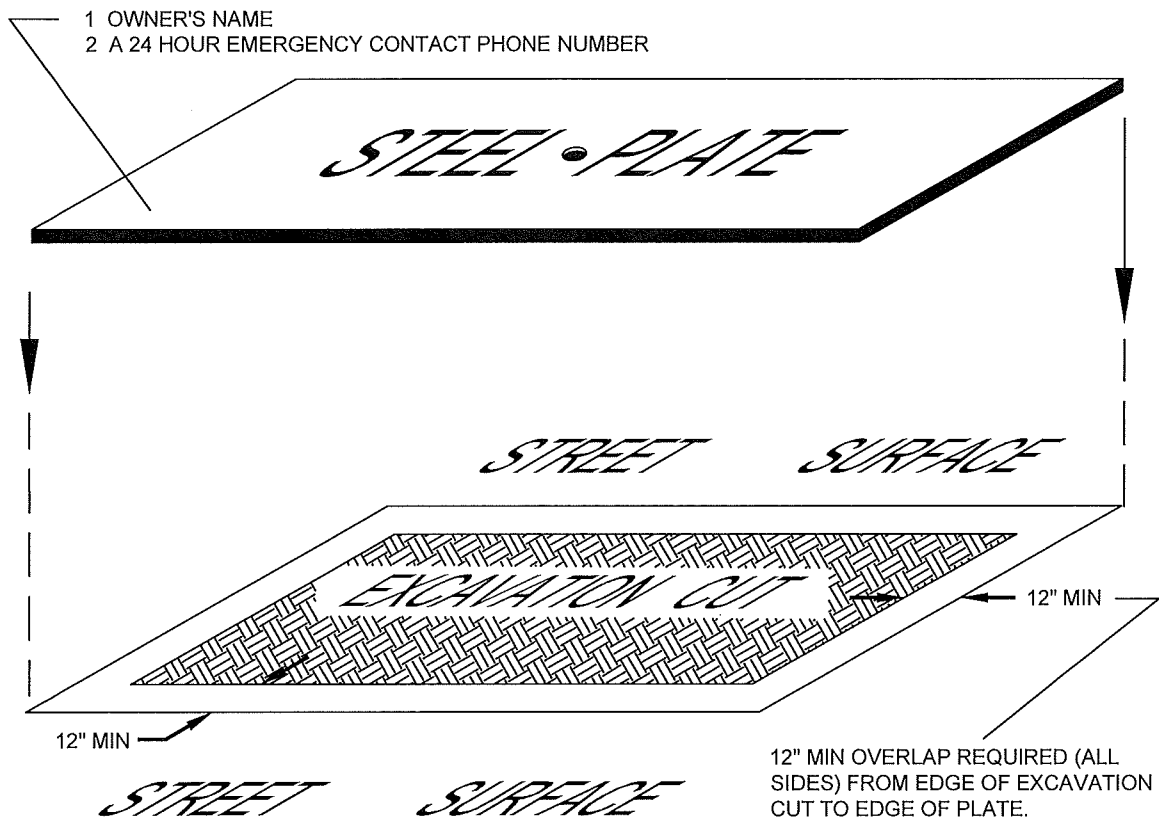
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ALL STEEL PLATES MUST HAVE THE FOLLOWING INFORMATION CLEARLY AND LEGIBLY 'ETCHED' INTO THEIR TOP SURFACE:

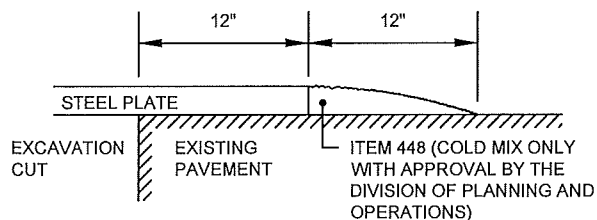
- 1 OWNER'S NAME
- 2 A 24 HR. EMERGENCY CONTACT PHONE NUMBER.

NO STEEL PINS ARE PERMITTED.

SEE SHEET 7 FOR SIGNING REQUIREMENTS.

STEEL PLATE REQUIREMENTS

PAVEMENT & UTILITY CUT REPAIR STANDARDS



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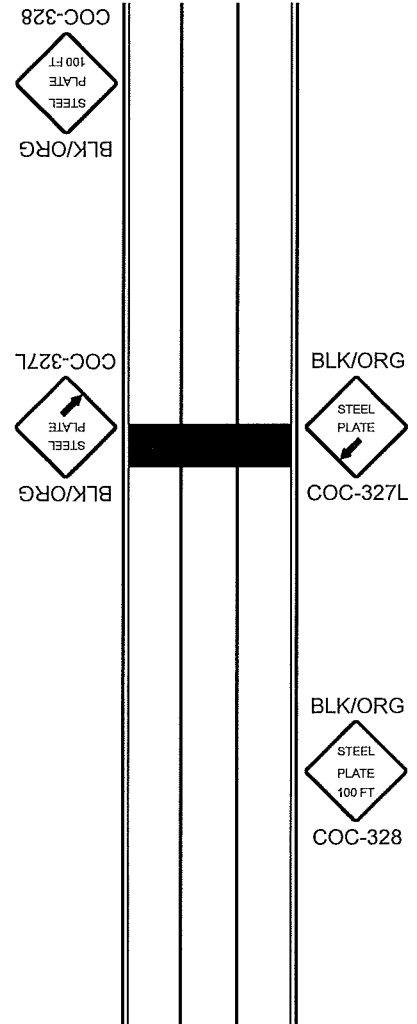
SIGNS ARE TO BE 36" x 36" FOR RESIDENTIAL AND DOWNTOWN AREAS AND 48" x 48" ON MULTI-LANE, HIGH SPEED (45 MPH OR GREATER) ROADWAYS.

SIGN COC - 327 (R/L) IS REQUIRED AT ALL PLATE LOCATIONS. SIGN COC - 328 IS REQUIRED WHEN POSTED SPEED IS 35 MPH OR GREATER.

SIGNS SHOULD BE PLACED IN ALL DIRECTIONS THAT ARE AFFECTED.

SIGNS SHOULD BE DUAL MOUNTED ON MULTI-LANE, ONE-WAY ROADWAYS.

ALL SIGNS SHALL BE MOUNTED IN ACCORANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD).



STEEL PLATE REQUIREMENTS

PAVEMENT & UTILITY CUT REPAIR STANDARDS

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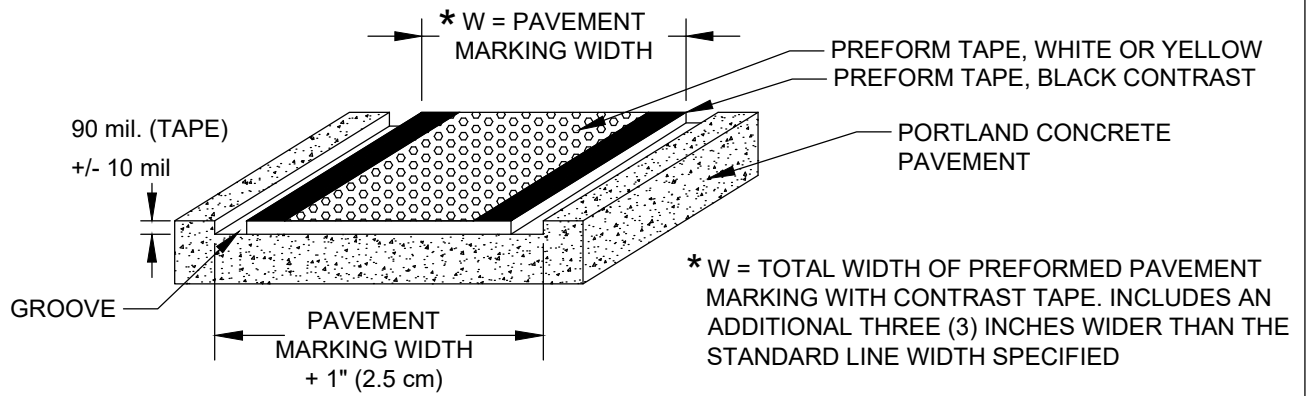


FIGURE 1- MARKING MATERIAL GROOVED APPLICATION

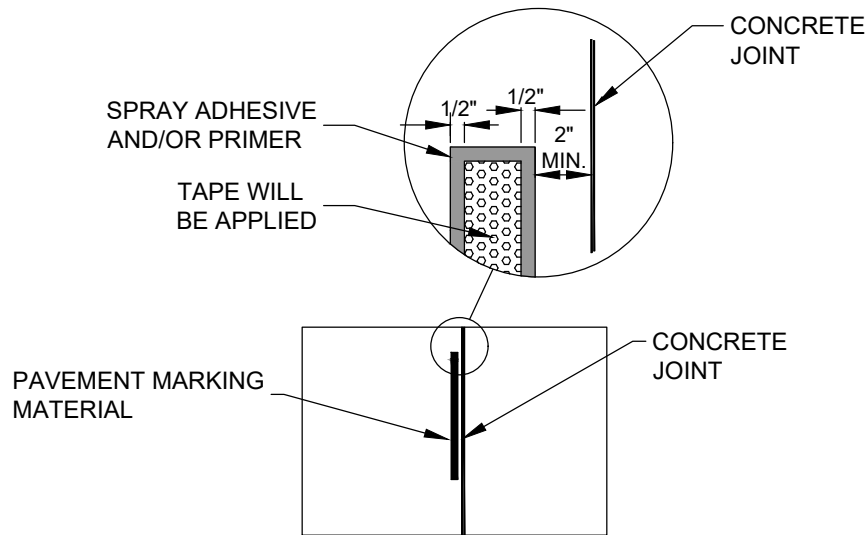


FIGURE 2- MARKING MATERIAL PARALLEL AT CONCRETE JOINT

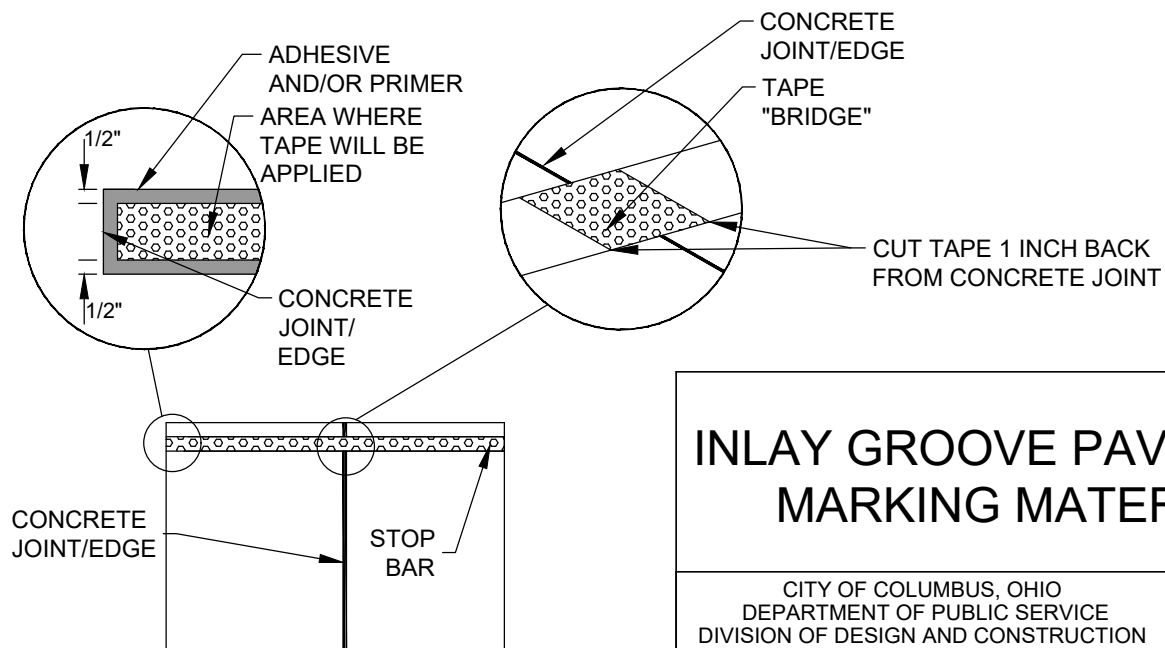


FIGURE 3 - MARKING MATERIAL CROSSING CONCRETE JOINT

INLAY GROOVE PAVEMENT MARKING MATERIAL

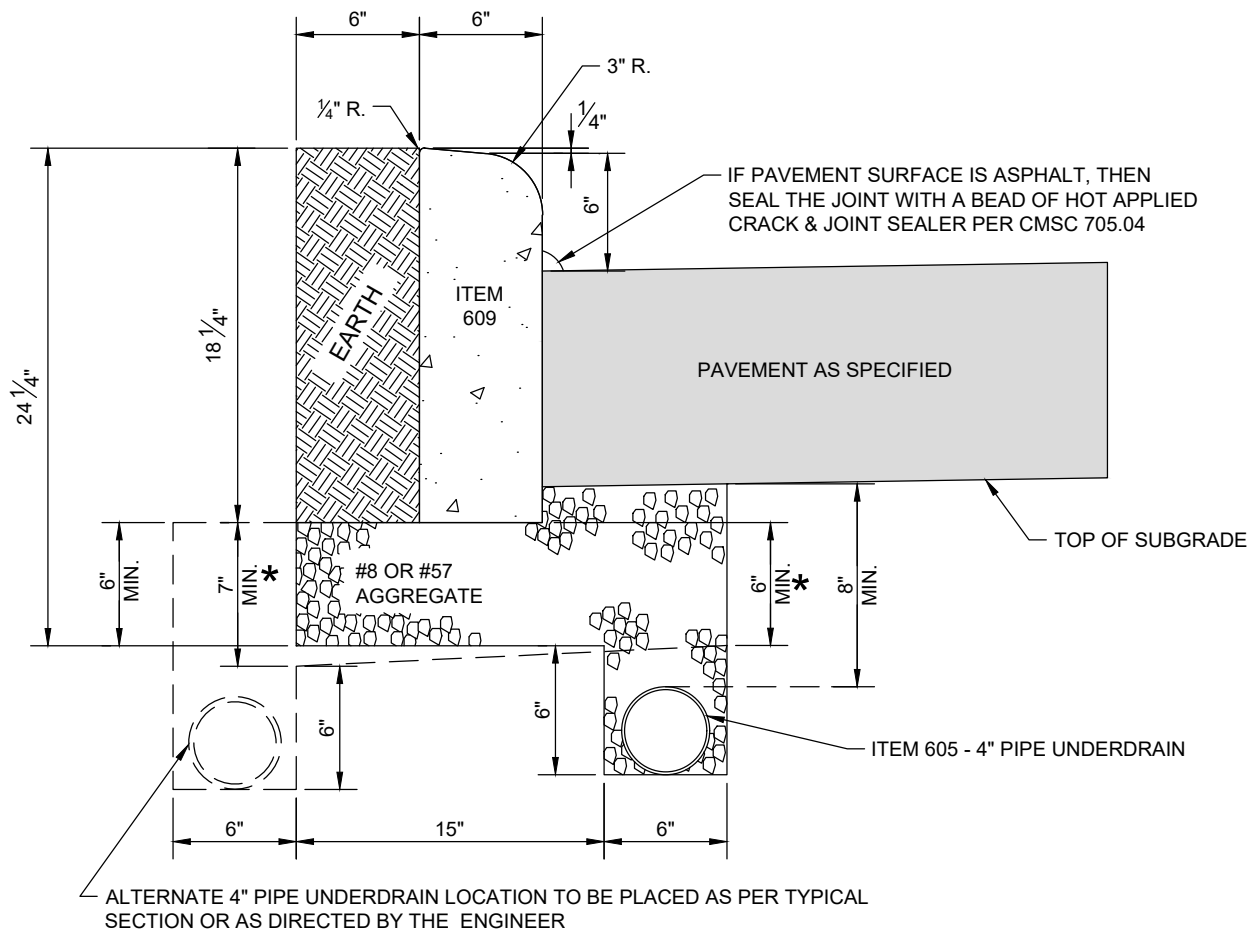
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CITY ENGINEER

STD DWG
1645

4/30/2018

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* CURB AGGREGATE COURSE-WHERE THE ROADWAY PAVEMENT HAS AGGREGATE BASE, MATCH THE BOTTOM OF THE CURB AGGREGATE COURSE TO THE TOP OF SUBGRADE. ENSURE ROADWAY SUB BASE MEETS UNDERDRAIN AGGREGATE.

IF THE TOP OF THE SUBGRADE IS BELOW THE BOTTOM OF THE CURB, THE UNDERDRAIN SHALL BE ADJUSTED TO KEEP THE TOP OF THE UNDERDRAIN AT LEAST 8" BELOW THE TOP OF THE SUBGRADE; AGGREGATE DEPTH BETWEEN BOTTOM OF CURB AND TOP OF UNDERDRAIN MAY VARY IF THIS OCCURS.

SUBGRADE COMPACTION SHALL BE COMPLETED BEFORE UNDERDRAIN INSTALLATION.

WHEN A CURB AND GUTTER INLET IS INSTALLED, THE TOP OF THE CASTING SHALL BE THE SAME AS THE TOP OF CURB ELEVATION. THE EDGE OF PAVEMENT ELEVATION SHALL BE 3/8" HIGHER THAN THE GRATE WHEREVER THEY MEET.

FOR REPLACEMENT WORK, THE CURB SHALL BE REMOVED AT AN EXISTING JOINT OR NO CLOSER THAN 5 FEET FROM AN EXISTING JOINT.

1/2" EXPANSION MATERIAL WILL BE INSTALLED BEHIND THE CURB WHEN A CONCRETE WALK, DRIVE, OR OTHER CONCRETE ITEM IS ADJOINING IT.

UNDERDRAIN IS NOT REQUIRED WHEN CURB IS ALONG CONCRETE MEDIAN.

0.74 C.F. CONCRETE PER L.F.

CURB, STRAIGHT 18"

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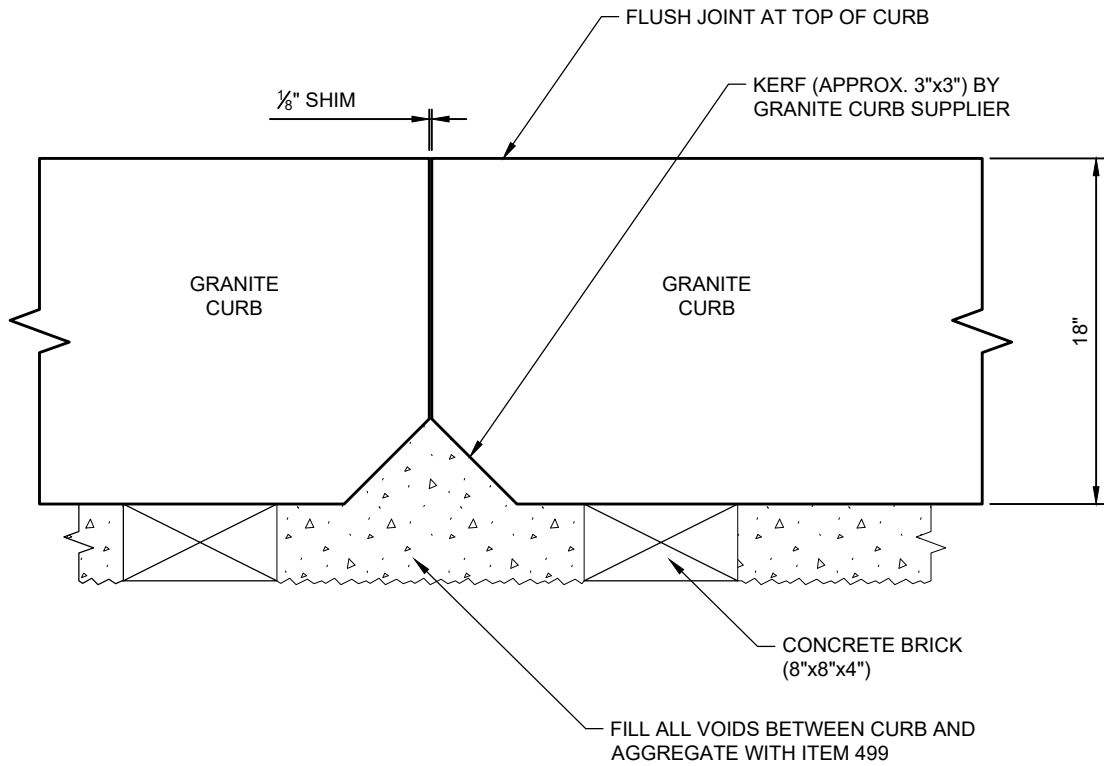
CITY ENGINEER

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2000

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ELEVATION

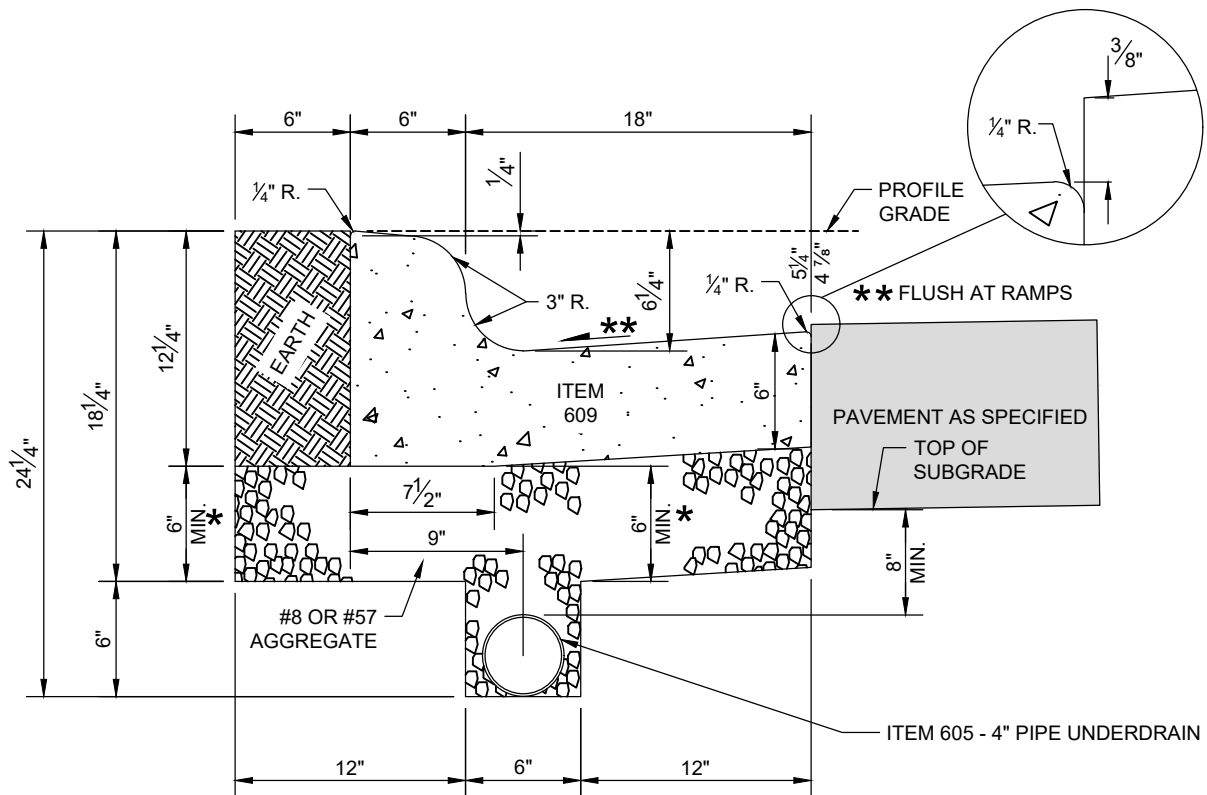
CURB GRANITE

CITY OF COLUMBUS, OHIO
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STD DWG
2005

3/30/2018

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* CURB AND GUTTER AGGREGATE COURSE-WHERE THE ROADWAY PAVEMENT HAS AGGREGATE BASE, MATCH THE BOTTOM OF THE CURB AND GUTTER AGGREGATE COURSE TO THE TOP OF SUBGRADE. ENSURE ROADWAY SUB BASE MEETS UNDERDRAIN AGGREGATE.

* * AT CURB RAMP LOCATIONS, THE GUTTER SLOPE SHALL NOT EXCEED 4.7%. TRANSITION GUTTER OVER 3' TO MATCH EXISTING CURB & GUTTER SLOPE. THE PAVEMENT SHALL BE FLUSH AT THE GUTTER IN FRONT OF CURB RAMPS. CURB RAMPS SHALL BE BUILT PER STD DWG 2319.

IF THE TOP OF THE SUBGRADE IS BELOW THE BOTTOM OF THE CURB, THE UNDERDRAIN SHALL BE ADJUSTED TO KEEP THE TOP OF THE UNDERDRAIN AT LEAST 8" BELOW THE TOP OF THE SUBGRADE; AGGREGATE DEPTH BETWEEN BOTTOM OF CURB AND TOP OF UNDERDRAIN MAY VARY IF THIS OCCURS.

SUBGRADE COMPACTION SHALL BE COMPLETED BEFORE UNDERDRAIN INSTALLATION.

WHEN A CURB AND GUTTER INLET IS INSTALLED, THE TOP OF THE CASTING SHALL BE THE SAME AS THE TOP OF CURB ELEVATION. THE EDGE OF PAVEMENT SHALL BE 3/8" HIGHER THAN THE GRATE WHEREVER THEY MEET.

FOR REPLACEMENT WORK, THE CURB SHALL BE REMOVED AT AN EXISTING JOINT OR NO CLOSER THAN 5 FEET FROM AN EXISTING JOINT.

1/2" EXPANSION MATERIAL WILL BE INSTALLED BEHIND THE CURB WHEN A CONCRETE WALK, DRIVE, OR OTHER ITEM IS ADJOINING IT.

WHEN CONNECTING TO AN EXISTING COMBINATION CURB AND GUTTER, TRANSITION THE GUTTER PAN AS REQUIRED, OVER A DISTANCE OF 10 FEET MAXIMUM, TO MAINTAIN POSITIVE DRAINAGE.

1.26 C.F. CONCRETE PER L.F.

COMBINATION CURB & GUTTER, TYPE STANDARD

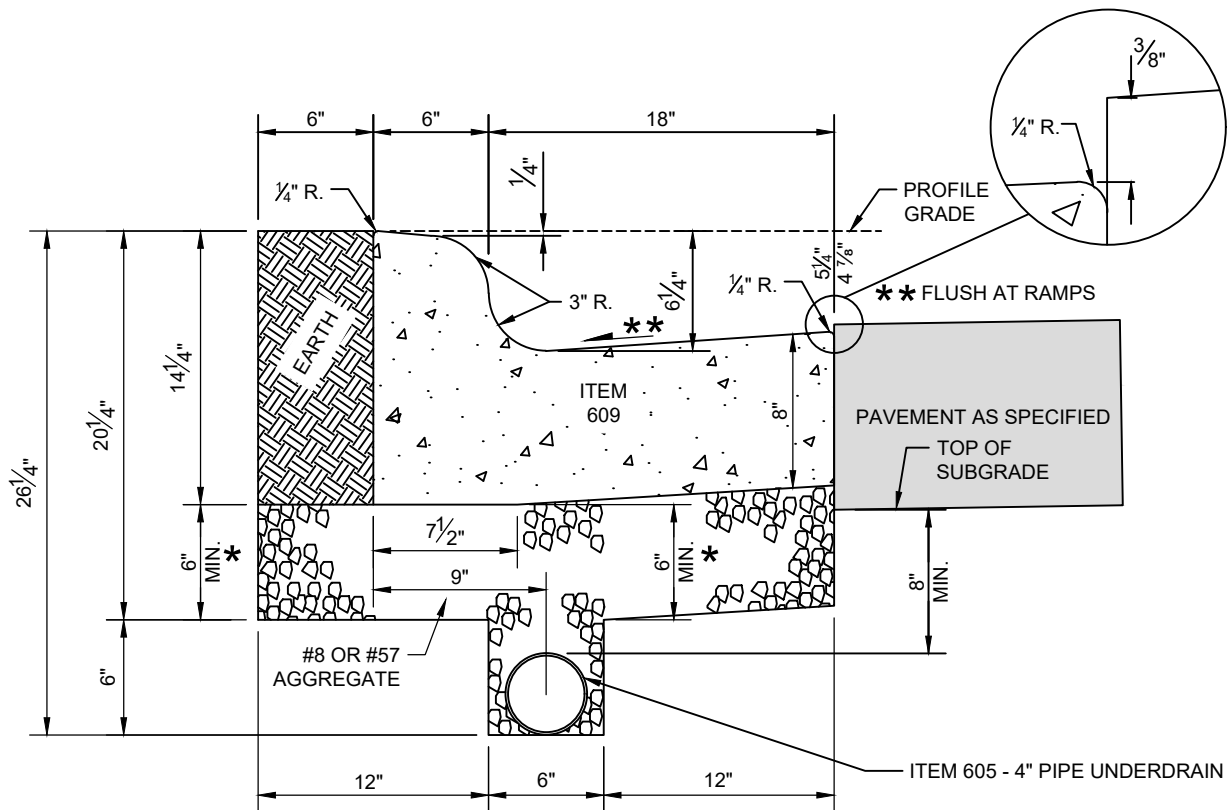
CITY OF COLUMBUS, OHIO
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CITY ENGINEER

STD DWG
2010

3/30/2018

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* CURB AND GUTTER AGGREGATE COURSE-WHERE THE ROADWAY PAVEMENT HAS AGGREGATE BASE, MATCH THE BOTTOM OF THE CURB AND GUTTER AGGREGATE COURSE TO THE TOP OF SUBGRADE. ENSURE ROADWAY SUB BASE MEETS UNDERDRAIN AGGREGATE.

** AT CURB RAMP LOCATIONS, THE GUTTER SLOPE SHALL NOT EXCEED 4.7%. TRANSITION GUTTER OVER 3' TO MATCH EXISTING CURB & GUTTER SLOPE. THE PAVEMENT SHALL BE FLUSH AT THE GUTTER IN FRONT OF CURB RAMPS. CURB RAMPS SHALL BE BUILT PER STD DWG 2319.

IF THE TOP OF THE SUBGRADE IS BELOW THE BOTTOM OF THE CURB, THE UNDERDRAIN SHALL BE ADJUSTED TO KEEP THE TOP OF THE UNDERDRAIN AT LEAST 8" BELOW THE TOP OF THE SUBGRADE; AGGREGATE DEPTH BETWEEN BOTTOM OF CURB AND TOP OF UNDERDRAIN MAY VARY IF THIS OCCURS.

SUBGRADE COMPACTION SHALL BE COMPLETED BEFORE UNDERDRAIN INSTALLATION.

WHEN A CURB AND GUTTER INLET IS INSTALLED, THE TOP OF THE CASTING SHALL BE THE SAME AS THE TOP OF CURB ELEVATION. THE EDGE OF PAVEMENT SHALL BE 3/8" HIGHER THAN THE GRATE WHEREVER THEY MEET.

FOR REPLACEMENT WORK, THE CURB SHALL BE REMOVED AT AN EXISTING JOINT OR NO CLOSER THAN 5 FEET FROM AN EXISTING JOINT.

1/2" EXPANSION MATERIAL WILL BE INSTALLED BEHIND THE CURB WHEN A CONCRETE WALK, DRIVE, OR OTHER ITEM IS ADJOINING IT.

WHEN CONNECTING TO AN EXISTING COMBINATION CURB AND GUTTER, TRANSITION THE GUTTER PAN AS REQUIRED, OVER A DISTANCE OF 10 FEET MAXIMUM, TO MAINTAIN POSITIVE DRAINAGE.

1.59 C.F. CONCRETE PER L.F.

COMBINATION CURB & GUTTER, TYPE SPECIAL 8"

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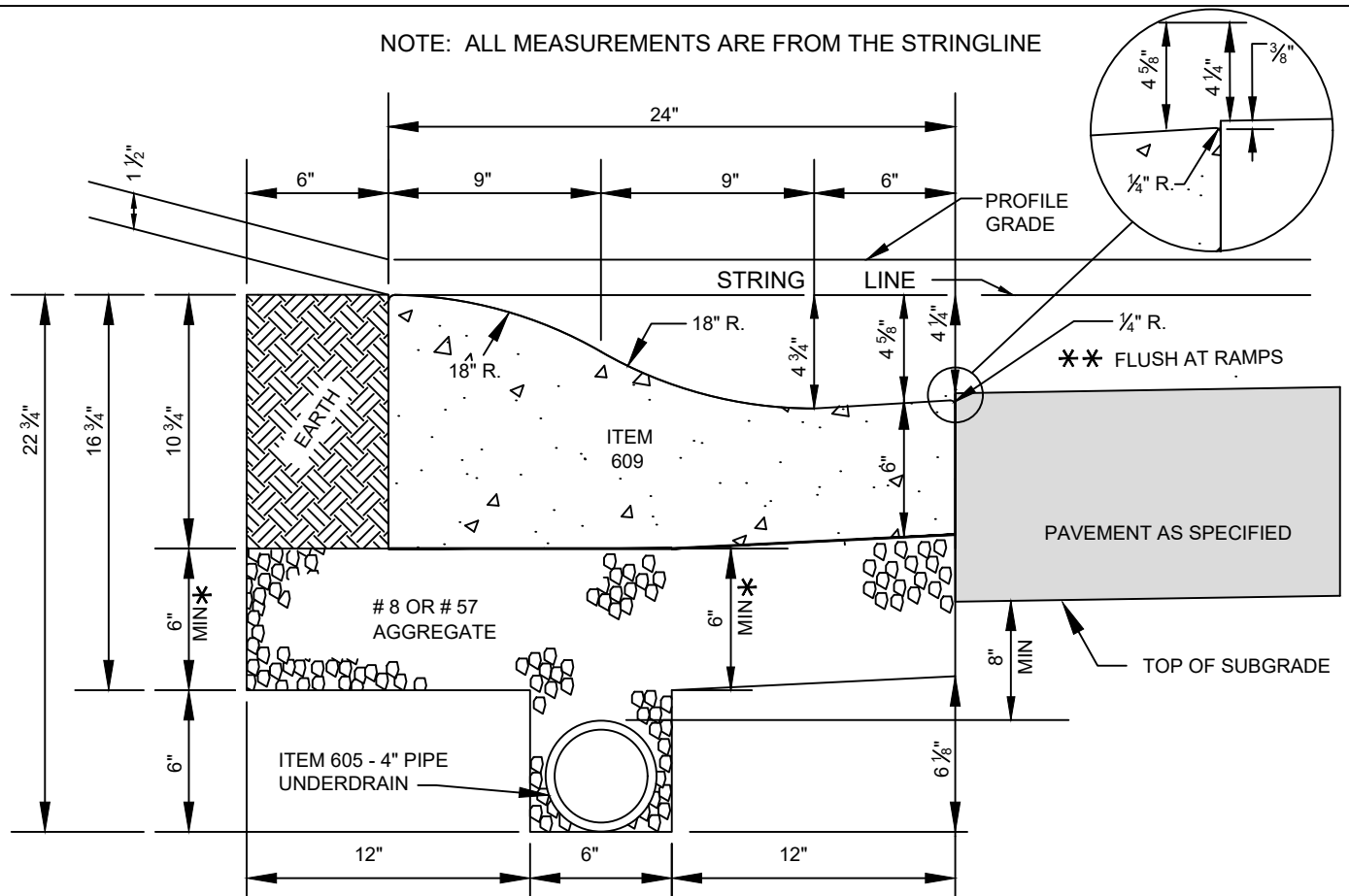
CITY ENGINEER

STD DWG
2020

3/30/2018

SHT 1 OF 1

NOTE: ALL MEASUREMENTS ARE FROM THE STRINGLINE



* CURB AND GUTTER AGGREGATE COURSE-WHERE THE ROADWAY PAVEMENT HAS AGGREGATE BASE, MATCH THE BOTTOM OF THE CURB AND GUTTER AGGREGATE COURSE TO THE TOP OF SUBGRADE. ENSURE ROADWAY SUB BASE MEETS UNDERDRAIN AGGREGATE.

** AT CURB RAMP LOCATIONS, THE GUTTER SLOPE SHALL NOT EXCEED 4.7%. TRANSITION GUTTER OVER 3' TO MATCH EXISTING CURB & GUTTER SLOPE. THE PAVEMENT SHALL BE FLUSH AT THE GUTTER IN FRONT OF CURB RAMPS. CURB RAMPS SHALL BE BUILT PER STD DWG 2319.

IF THE TOP OF THE SUBGRADE IS BELOW THE BOTTOM OF THE CURB, THE UNDERDRAIN SHALL BE ADJUSTED TO KEEP THE TOP OF THE UNDERDRAIN AT LEAST 8" BELOW THE TOP OF THE SUBGRADE; AGGREGATE DEPTH BETWEEN BOTTOM OF CURB AND TOP OF UNDERDRAIN MAY VARY IF THIS OCCURS.

SUBGRADE COMPACTION SHALL BE COMPLETED BEFORE UNDERDRAIN INSTALLATION.

WHEN A CURB AND GUTTER INLET IS INSTALLED, THE TOP OF THE CASTING SHALL BE THE SAME AS THE TOP OF CURB ELEVATION. THE EDGE OF PAVEMENT SHALL BE 3/8" HIGHER THAN THE GRATE WHEREVER THEY MEET.

FOR REPLACEMENT WORK, THE CURB SHALL BE REMOVED AT AN EXISTING JOINT OR NO CLOSER THAN 5 FEET FROM AN EXISTING JOINT.

1/2" EXPANSION MATERIAL WILL BE INSTALLED BEHIND THE CURB WHEN A CONCRETE WALK, DRIVE, OR OTHER ITEM IS ADJOINING IT.

WHEN CONNECTING TO AN EXISTING COMBINATION CURB AND GUTTER, TRANSITION THE GUTTER PAN AS REQUIRED, OVER A DISTANCE OF 10 FEET MAXIMUM, TO MAINTAIN POSITIVE DRAINAGE.

1.33 C.F. CONCRETE PER L.F.

COMBINATION CURB & GUTTER, TYPE MOUNTABLE

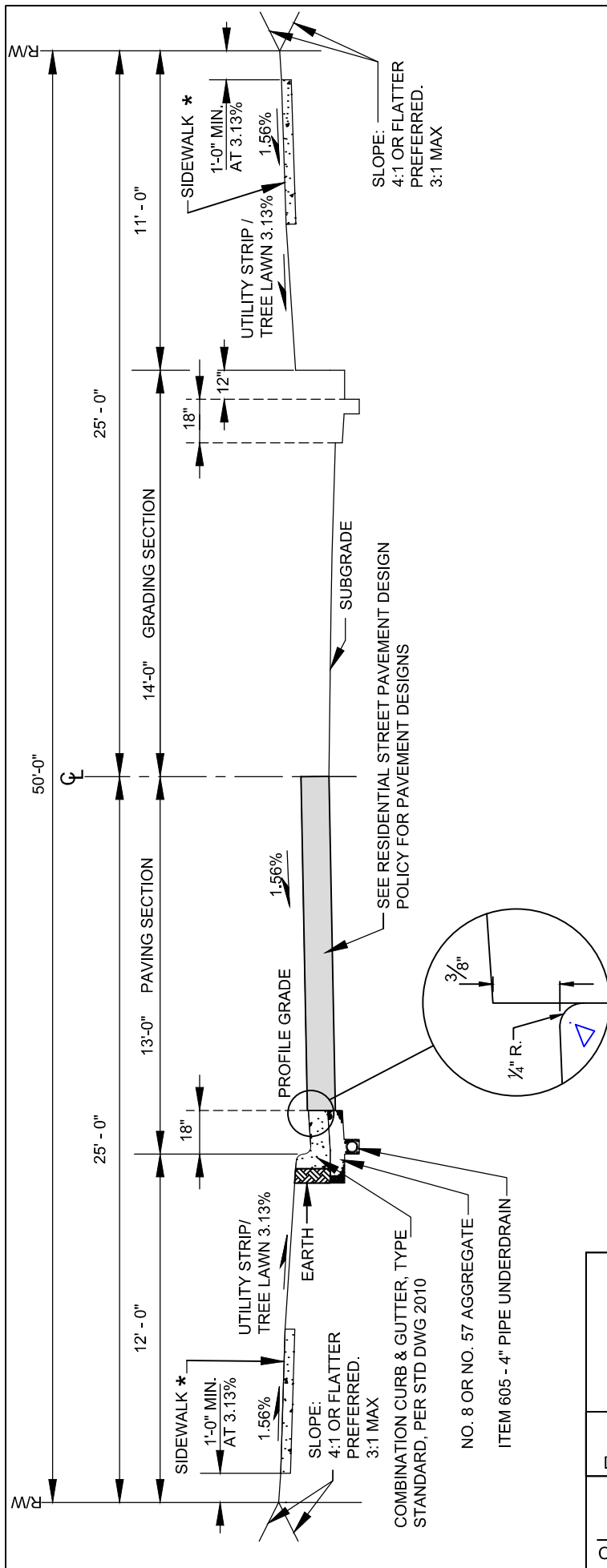
CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
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2030

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SHT 1 OF 1



* SIDEWALK WIDTH PER STANDARD DRAWING 2300.

A MINIMUM 7 FT WIDE PEDESTRIAN ACCESS ROUTE (PAR) SHALL BE PROVIDED BETWEEN OPPOSING RAMPS AND SHALL HAVE A CROSS-SLOPE (THE LONGITUDINAL STREET SLOPE) NO GREATER THAN 1.56%.

26' SECTION (RESIDENTIAL) COMBINATION CURB & GUTTER, TYPE STANDARD

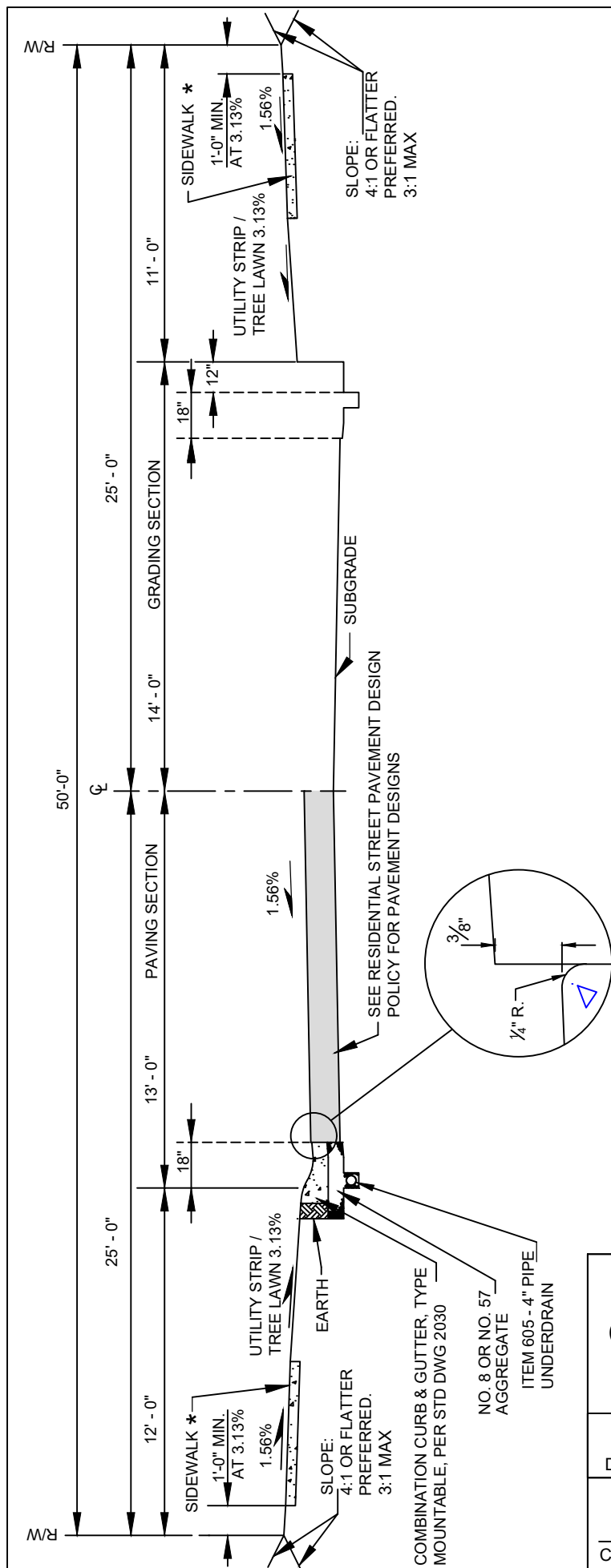
CITY OF COLUMBUS, OHIO
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CITY ENGINEER

STD DWG
2100

12/31/2018

SHT 1 OF 1



* SIDEWALK WIDTH PER STANDARD DRAWING 2300.

A MINIMUM 7FT WIDE PEDESTRIAN ACCESS ROUTE (PAR) SHALL BE PROVIDED BETWEEN OPPOSING RAMPS AND SHALL HAVE A CROSS-SLOPE (THE LONGITUDINAL STREET SLOPE) NO GREATER THAN 1.56%.

26' SECTION (RESIDENTIAL) COMBINATION CURB & GUTTER, TYPE MOUNTABLE

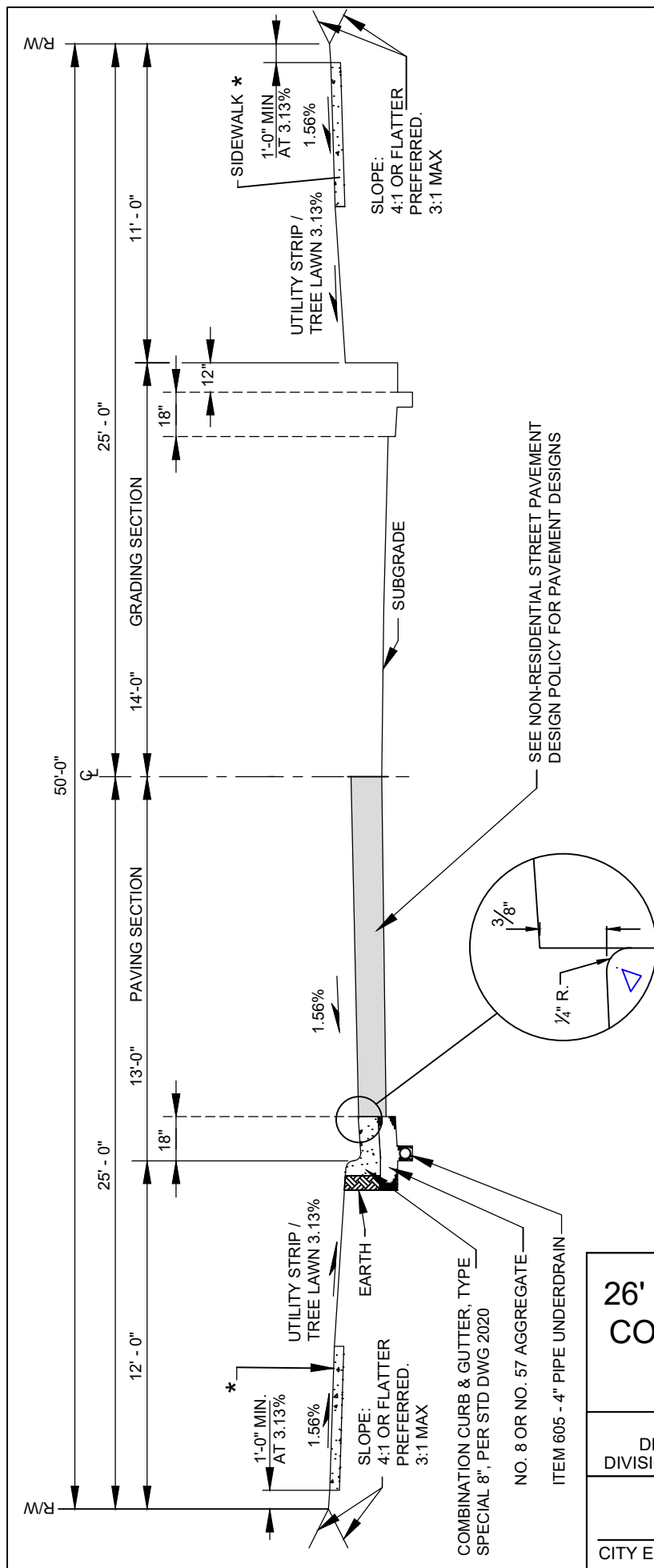
CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
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CITY ENGINEER

STD DWG
2101

12/31/2018

SHT 1 OF 1



* SIDEWALK WIDTH PER STANDARD DRAWING 2300.

A MINIMUM 7FT WIDE PEDESTRIAN ACCESS ROUTE (PAR) SHALL BE PROVIDED BETWEEN OPPOSING RAMPS AND SHALL HAVE A CROSS-SLOPE (THE LONGITUDINAL STREET SLOPE) NO GREATER THAN 1.56%.

26' SECTION (NON-RESIDENTIAL) COMBINATION CURB & GUTTER, TYPE SPECIAL 8"

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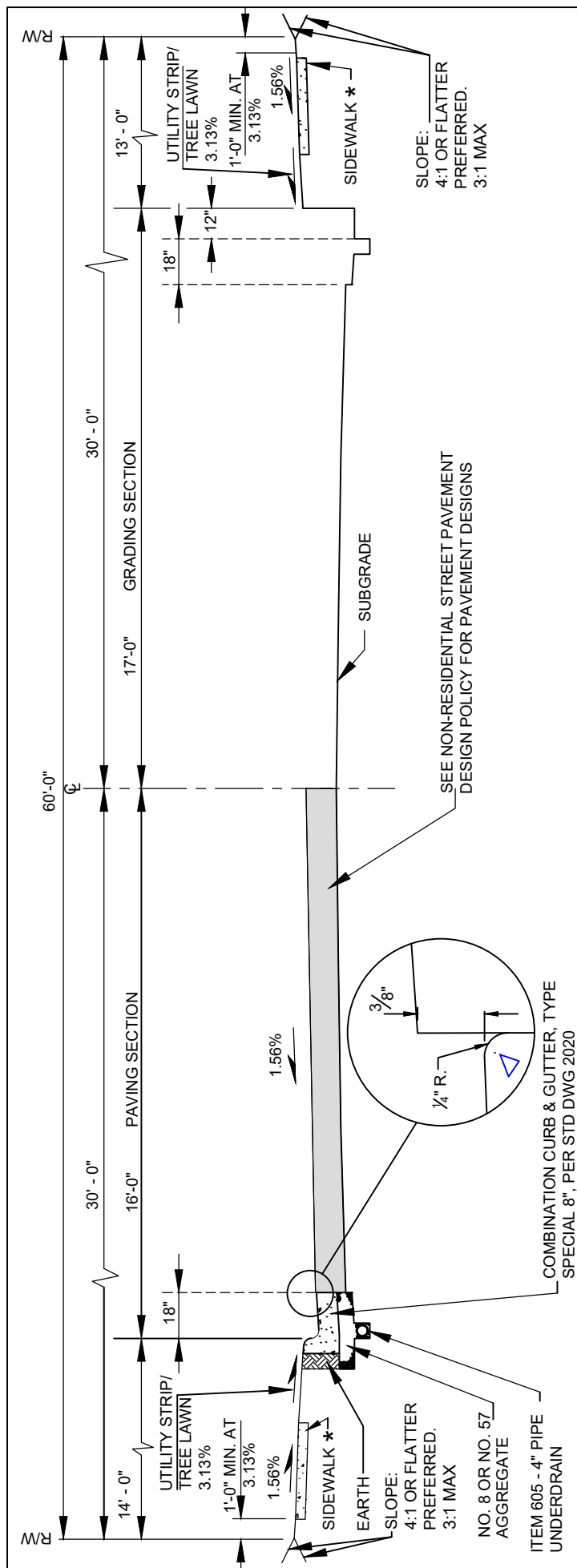
STD DWG
2105

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SHT 1 OF 1



SHT 1 OF 1



* SIDEWALK WIDTH PER STANDARD DRAWING 2300.

A MINIMUM 7FT WIDE PEDESTRIAN ACCESS ROUTE (PAR) SHALL BE PROVIDED BETWEEN OPPOSING RAMPS AND SHALL HAVE A CROSS-SLOPE (THE LONGITUDINAL STREET SLOPE) NO GREATER THAN 1.56%.

32' SECTION (NON-RESIDENTIAL) COMBINATION CURB & GUTTER, TYPE SPECIAL 8"

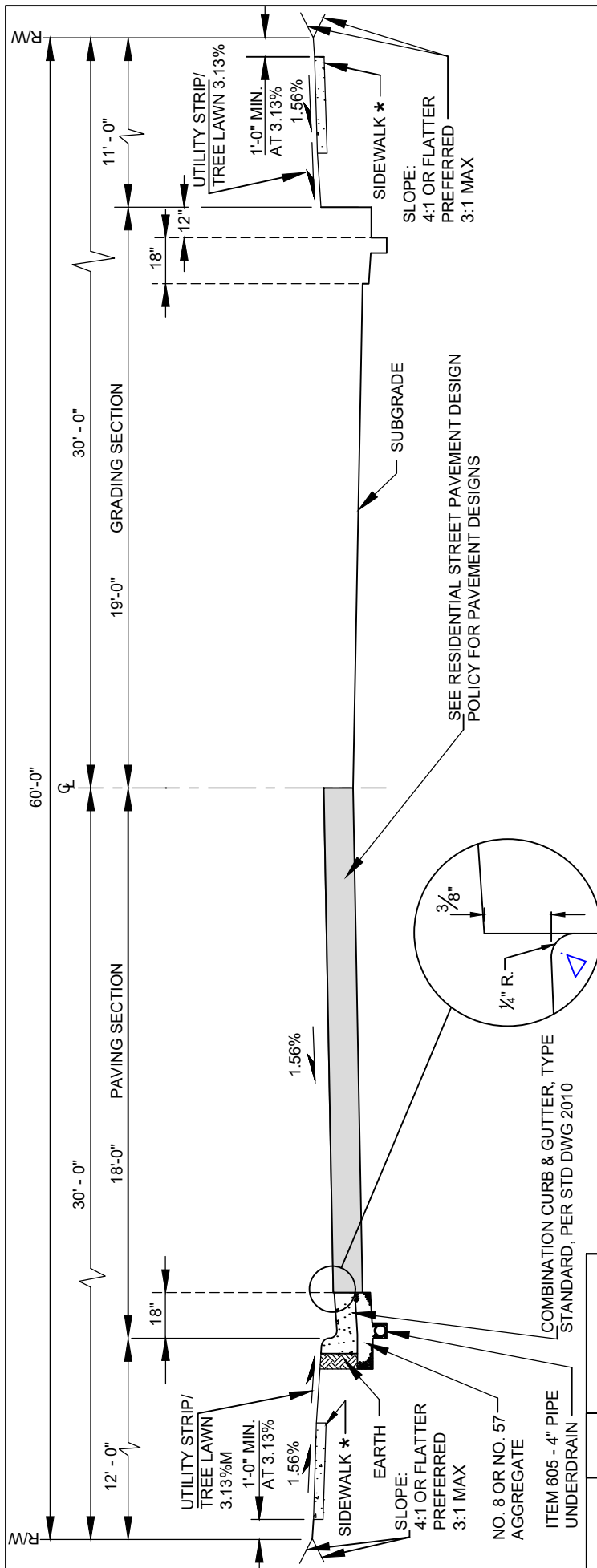
CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

CITY ENGINEER

STD DWG
2111

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SHT 1 OF 1



* SIDEWALK WIDTH PER STANDARD DRAWING 2300.

A MINIMUM 7FT WIDE PEDESTRIAN ACCESS ROUTE (PAR) SHALL BE PROVIDED BETWEEN
OPPOSING RAMPS AND SHALL HAVE A CROSS-SLOPE (THE LONGITUDINAL STREET SLOPE)
NO GREATER THAN 1.56%.

36' SECTION (RESIDENTIAL) COMBINATION CURB & GUTTER, TYPE STANDARD

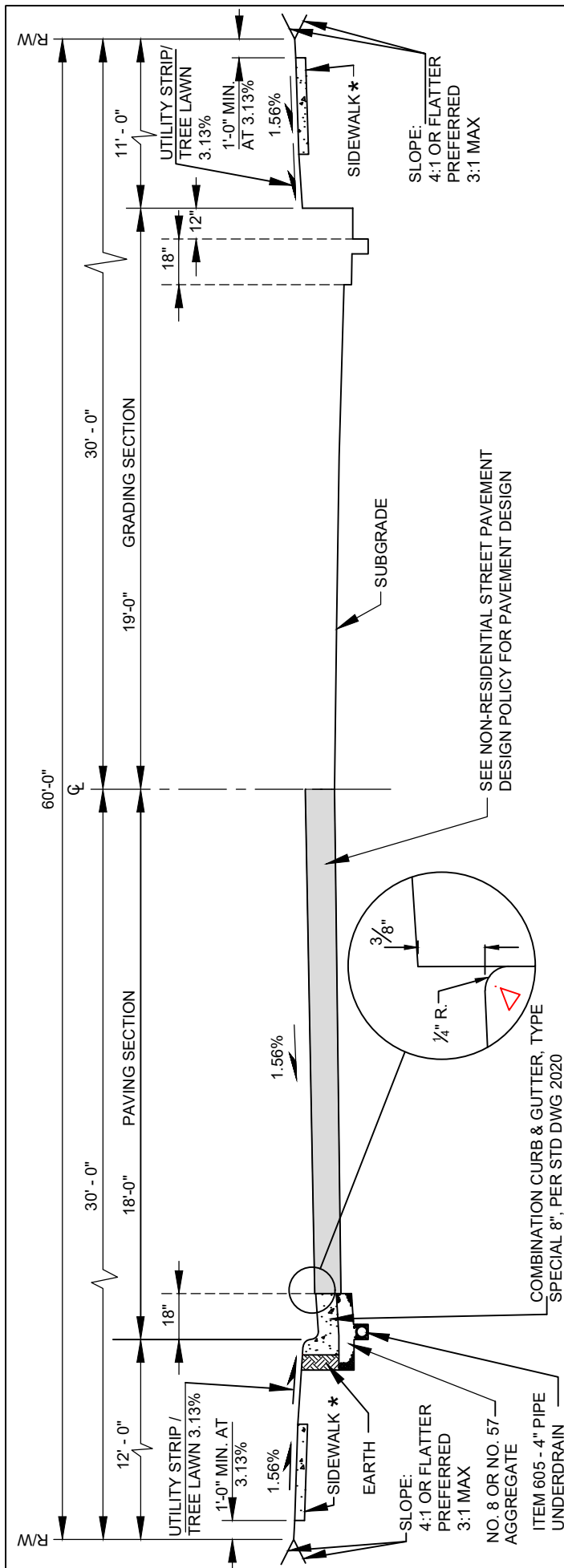
CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

CITY ENGINEER

STD DWG
2115

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SHT 1 OF 1



* SIDEWALK WIDTH PER STANDARD DRAWING 2300.

A MINIMUM 7FT WIDE PEDESTRIAN ACCESS ROUTE (PAR) SHALL BE PROVIDED BETWEEN OPPOSING RAMPS AND SHALL HAVE A CROSS-SLOPE (THE LONGITUDINAL STREET SLOPE) NO GREATER THAN 1.56%.

36' SECTION (NON-RESIDENTIAL) COMBINATION CURB & GUTTER, TYPE SPECIAL 8"

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

[Signature]

CITY ENGINEER

STD DWG
2116

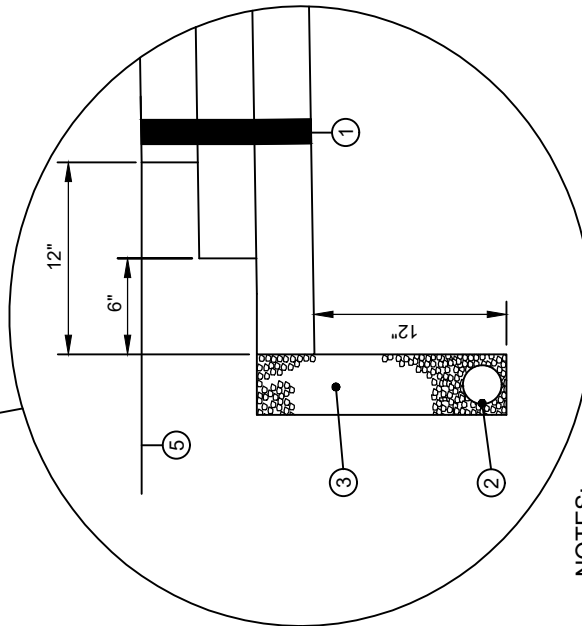
12/31/2018

SHT 1 OF 1



(A) EXISTING PAVEMENT

- ① PAVEMENT DESIGN FOR WIDENING SHALL BE PER CITY OF COLUMBUS NON-RESIDENTIAL STREET PAVEMENT DESIGN POLICY. PAVEMENT SHALL BE EQUAL TO OR GREATER THAN EXISTING PAVEMENT TO PROVIDE POSITIVE DRAINAGE OF SUBGRADE.
- ①A ITEM 441 - ASPHALT CONCRETE, SURFACE COURSE
- ② ITEM 605 - 4" PIPE UNDERDRAIN
- ③ NO. 8 OR NO. 57 AGGREGATE
- ④ ITEM 204 - SUBGRADE COMPACTION
- ⑤ ITEM 659 - SEEDING AND MULCHING
- ⑥ ITEM 254 - 1½" PAVEMENT PLANING
- ⑦ ITEM 407 - TACK COAT



NOTES:

- 1 DITCH DESIGN PER CITY STORMWATER DRAINAGE MANUAL.
- 2 PUBLIC ACCESS EASEMENT REQUIRED FOR ANY WALK OUTSIDE OF R.W.
- 3 SLOPE: 4:1 PREFERRED
3:1 MAX

WIDENING
UNCURBED SECTION
SIDE DITCH

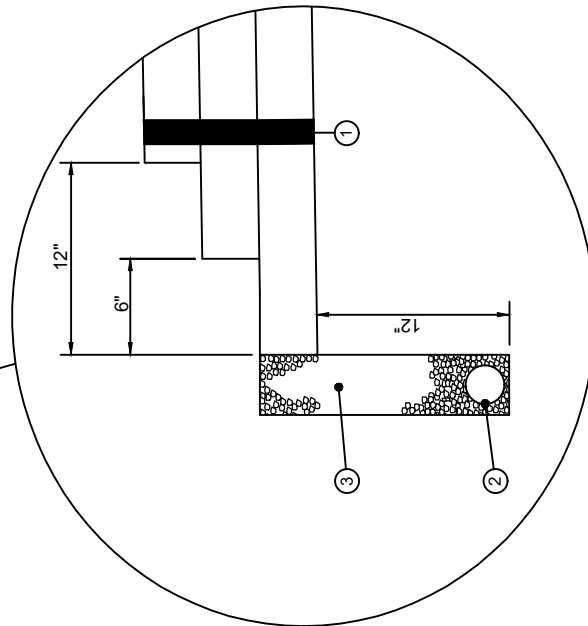
CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

CITY ENGINEER

STD DWG
2130

4/30/2018

SHT 1 OF 1

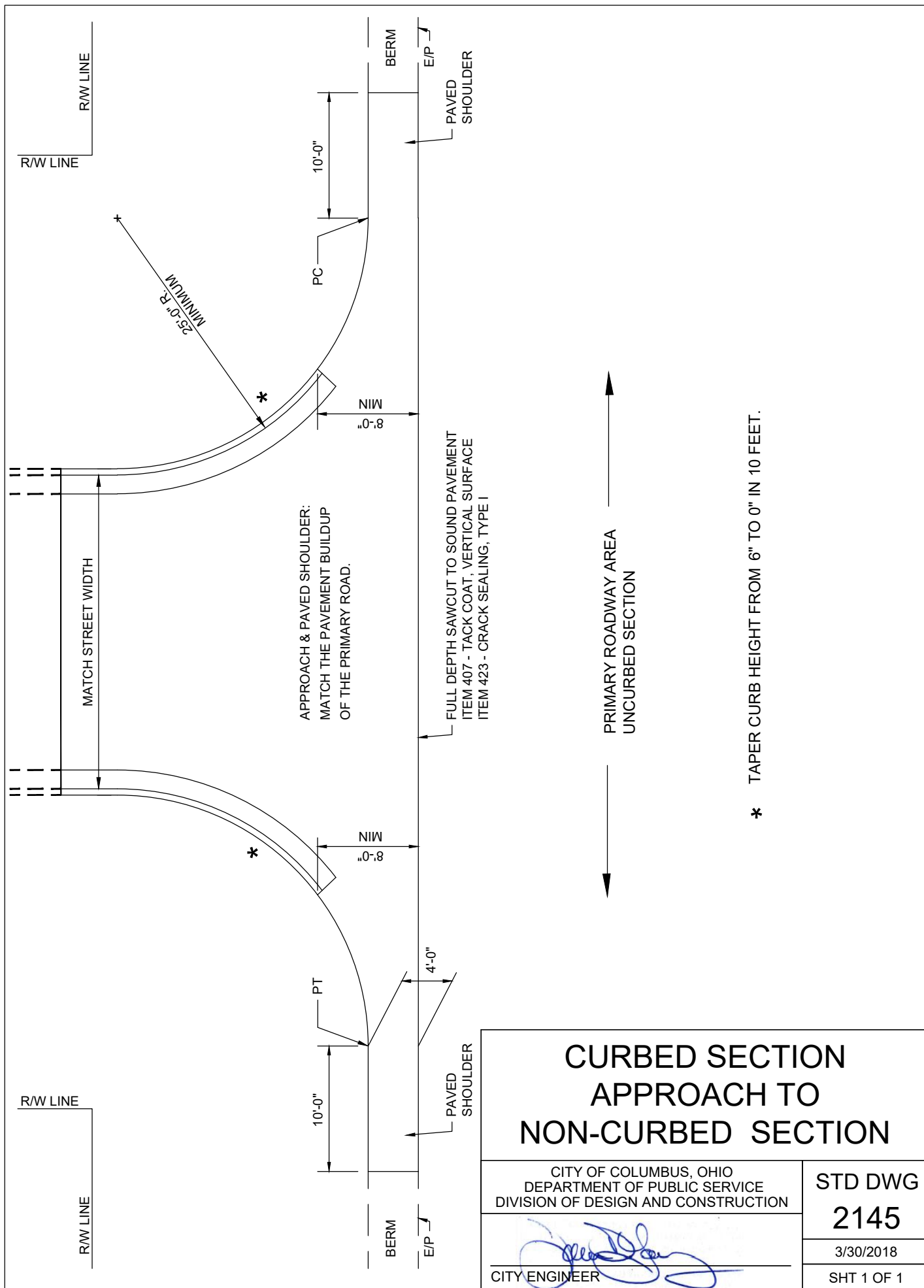


- NOTES:

- 1 DITCH DESIGN PER CITY STORMWATER DRAINAGE MANUAL.
- 2 PUBLIC ACCESS EASEMENT REQUIRED FOR ANY WALK OUTSIDE OF RW.
- 3 SLOPE: 4:1 PREFERRED
3:1 MAX

CITY ENGINEER

SHT 1 OF 1



CURBED SECTION APPROACH TO NON-CURBED SECTION

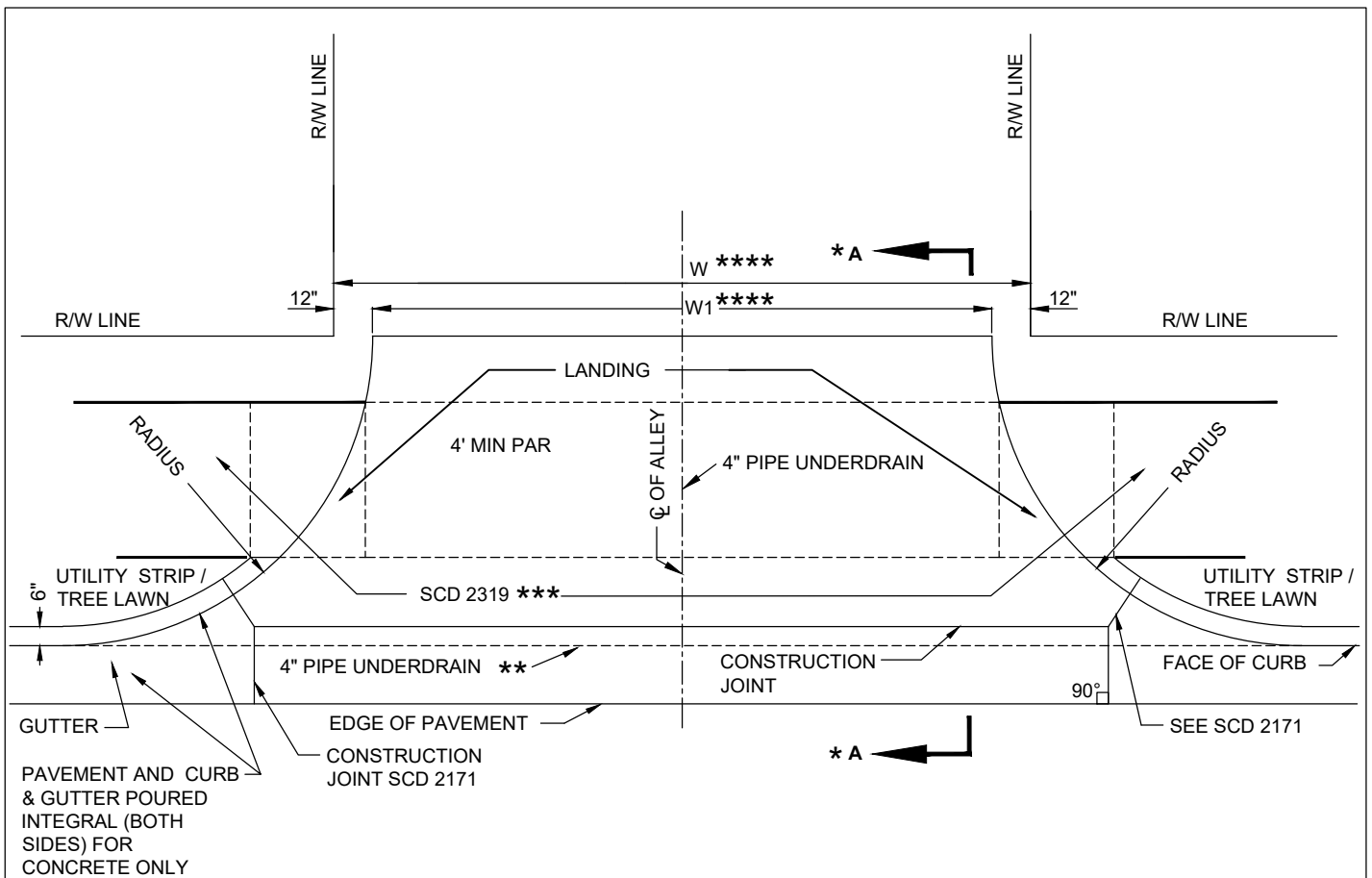
CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
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CITY ENGINEER

STD DWG
2145

3/30/2018

SHT 1 OF 1



* SEE SHEET 3 OF 3 FOR SECTION A-A.

** MAINTAIN CONCRETE GUTTER AND 4" PIPE UNDERDRAIN.

*** IF SIDEWALK IS BUILT AT GRADE AND CURB IS DROPPED THEN ONLY DETECTABLE WARNINGS ARE REQUIRED.

**** SEE TABLE SCD 2151.

RAISED EDGE OR CURB ON ALLEY SECTION WILL BE INCLUDED IN THE AREA OF CONCRETE PAVING AND CURB AND GUTTER LENGTH THROUGH ALLEY

PAR = PEDESTRIAN ACCESS ROUTE.

d = DISTANCE FROM STRINGLINE TO CENTERLINE INVERT.

COMBINATION CURB & GUTTER

ALLEY APPROACH

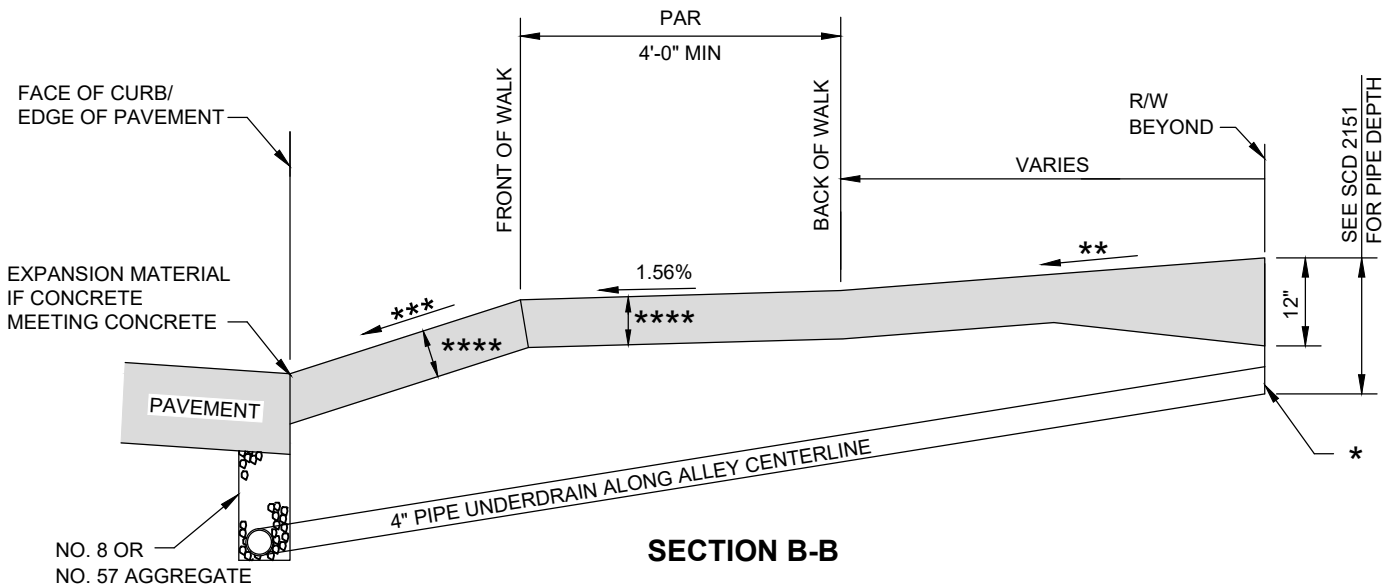
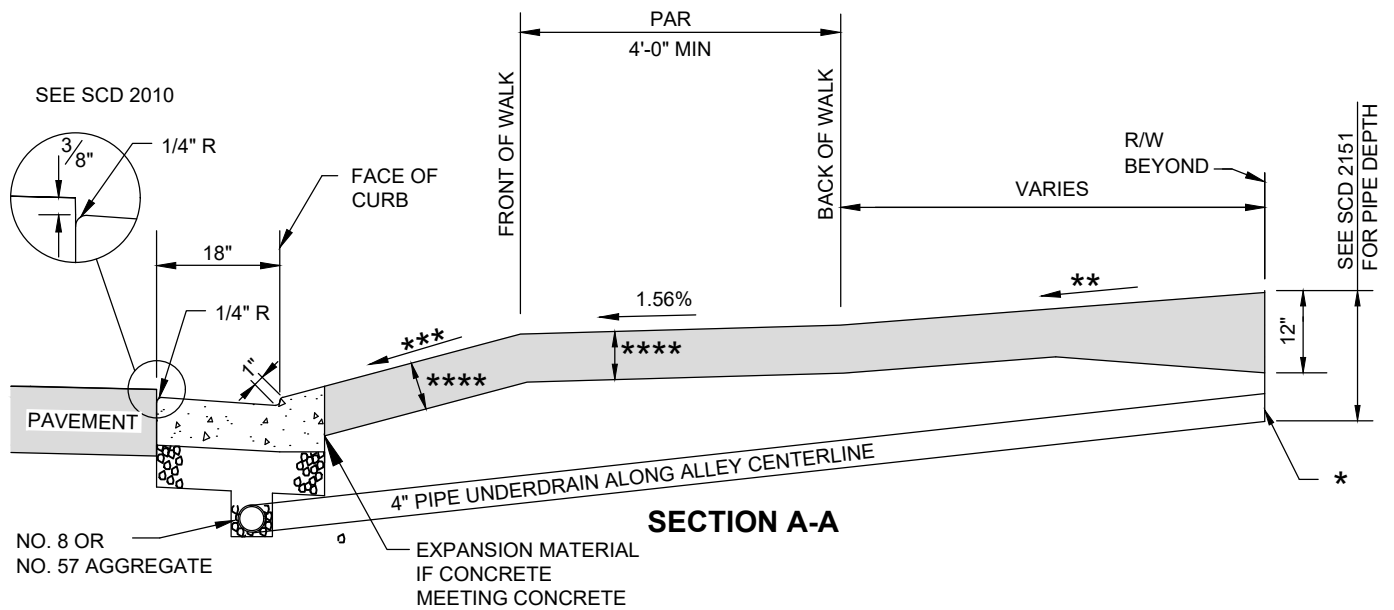
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STD DWG
2150

4/30/2018

SHT 1 OF 3



- * CAP END IF NOT CONNECTED TO PIPE UNDERDRAIN AT TIME OF CONSTRUCTION.
- ** SLOPE VARIES.
- *** 8% MAX SLOPE
- **** FOR CONCRETE, 7".
FOR FLEXIBLE PAVEMENT, SEE RESIDENTIAL PAVEMENT POLICY.

TYPICAL PROFILE

PAR = PEDESTRIAN ACCESS ROUTE.

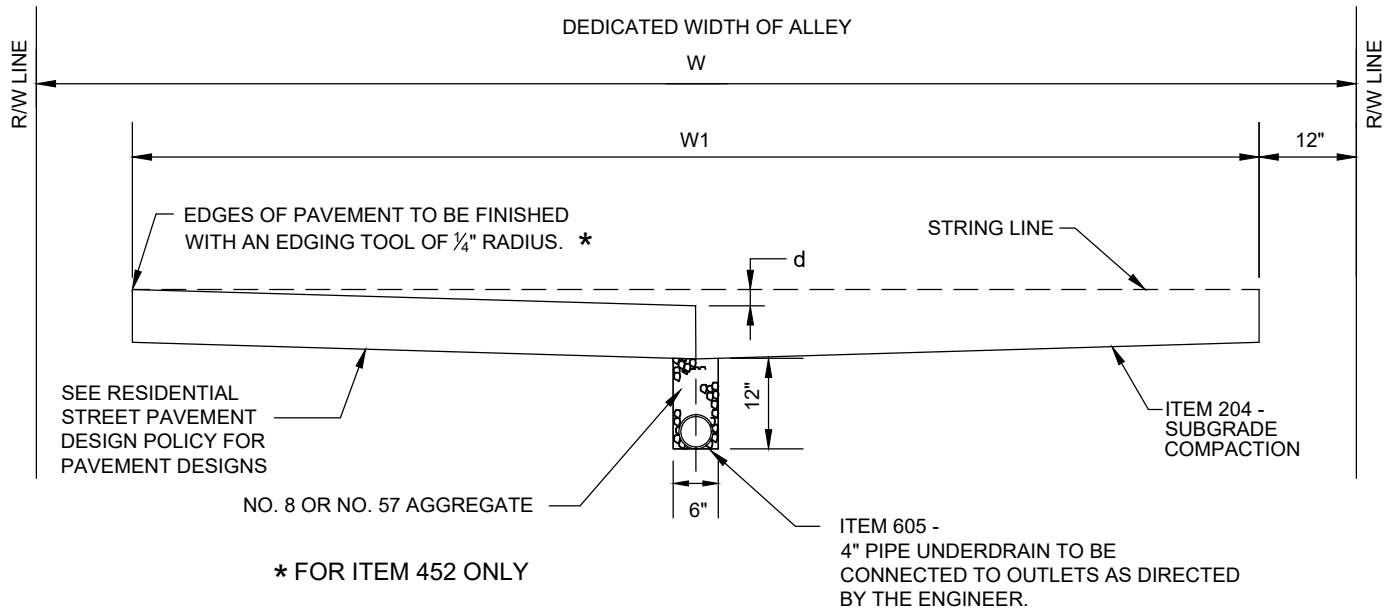
ALLEY APPROACH

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

STD DWG
2150

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SHT 3 OF 3



W (R/W WIDTH)	W1	d
15'	13'	2 $\frac{3}{4}$ "
16'	14'	3"
18'	16'	3 $\frac{1}{4}$ "
20'	18'	3 $\frac{1}{2}$ "
OVER 20'	20'	3 $\frac{3}{4}$ "
OVER 24'	24'	4 $\frac{1}{2}$ "

TYPICAL SECTION

ALLEY

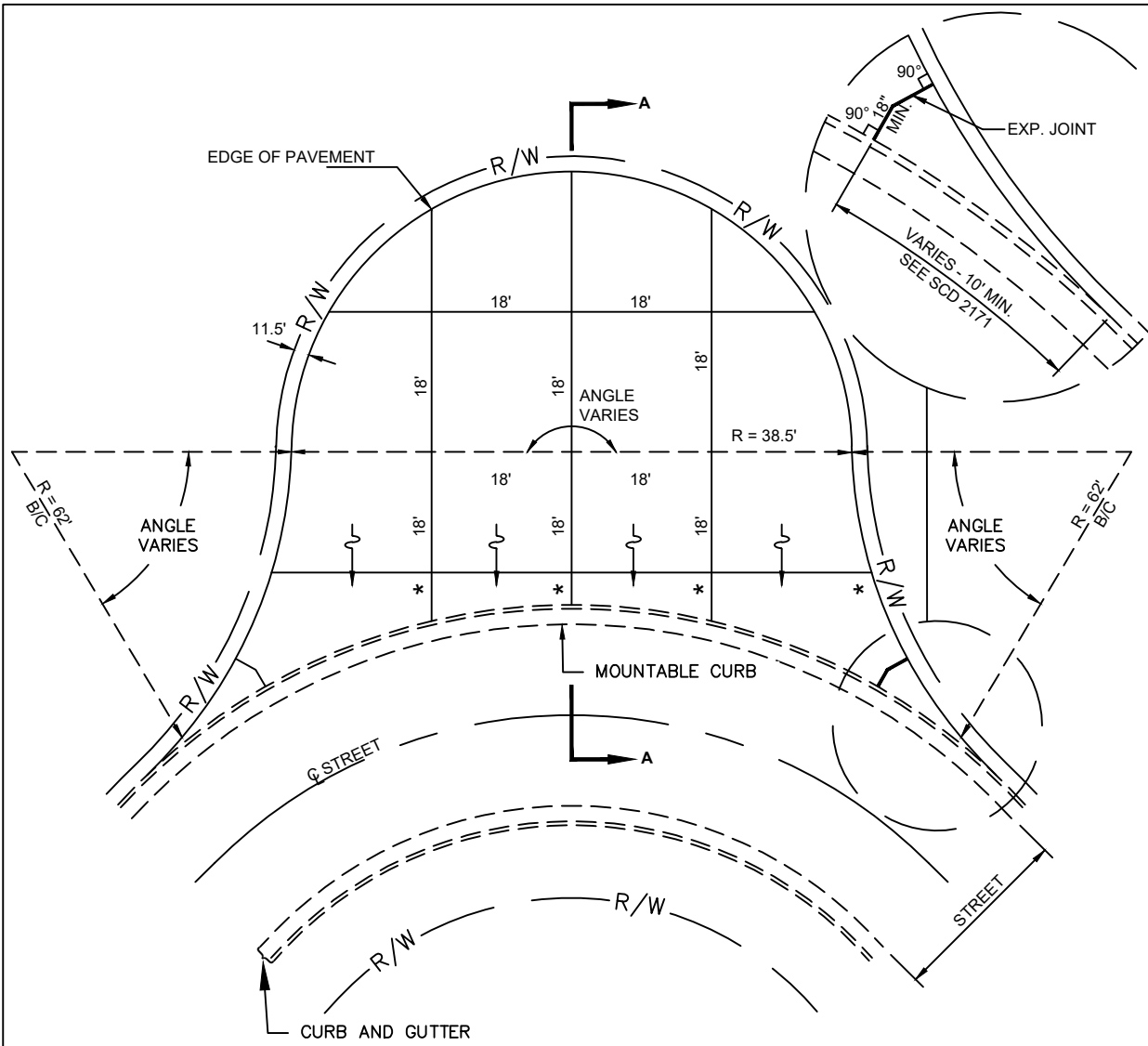
CITY OF COLUMBUS, OHIO
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CITY ENGINEER

STD DWG
2151

4/30/2018

SHT 1 OF 1



* VARIABLE - 2' MIN, 18' MAX

EYEBROW SHALL HAVE CONTINUOUS POSITIVE DRAINAGE TO STREET

JOINT SPACING DETAIL

EYEBROW

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

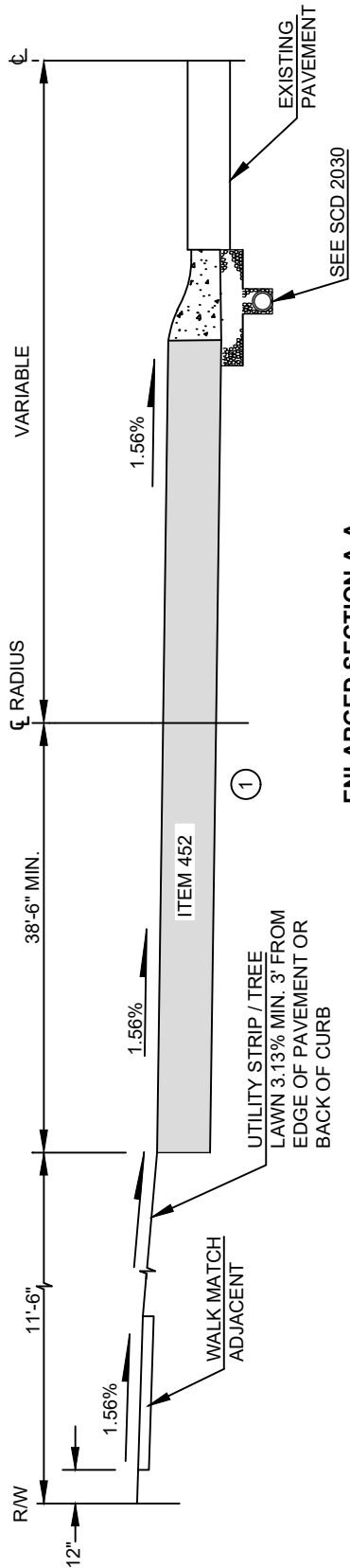
CITY ENGINEER

STD DWG

2154

12/31/2018

SHT 1 OF 2



ENLARGED SECTION A-A

① ITEM 452 - 7" NON-REINFORCED CONCRETE PAVEMENT.

TYPICAL SECTION
COMBINATION CURB &
GUTTER, TYPE MOUNTABLE

EYEBROW

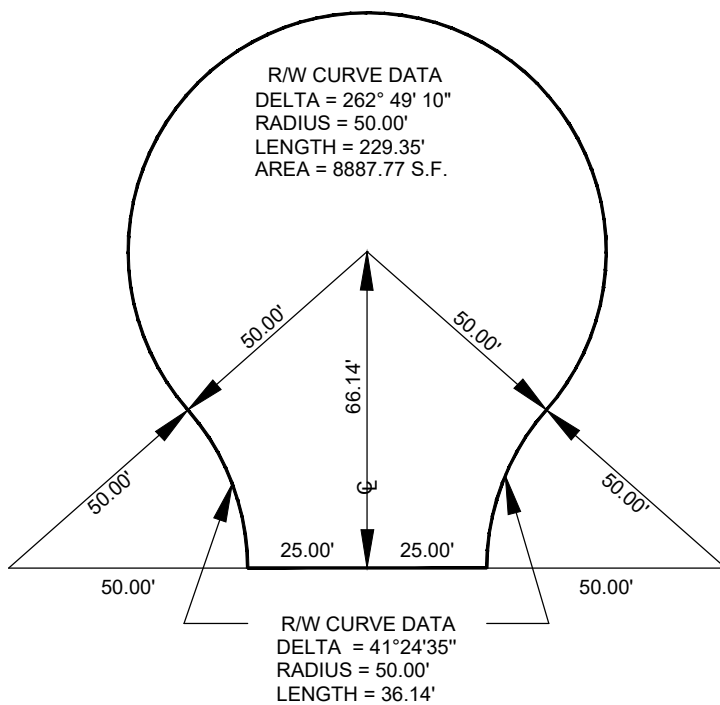
CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

STD DWG

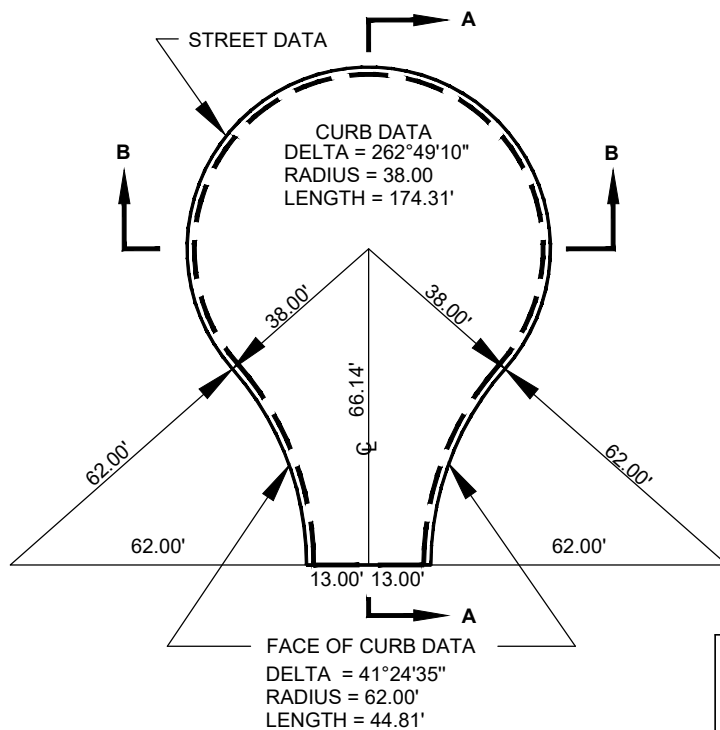
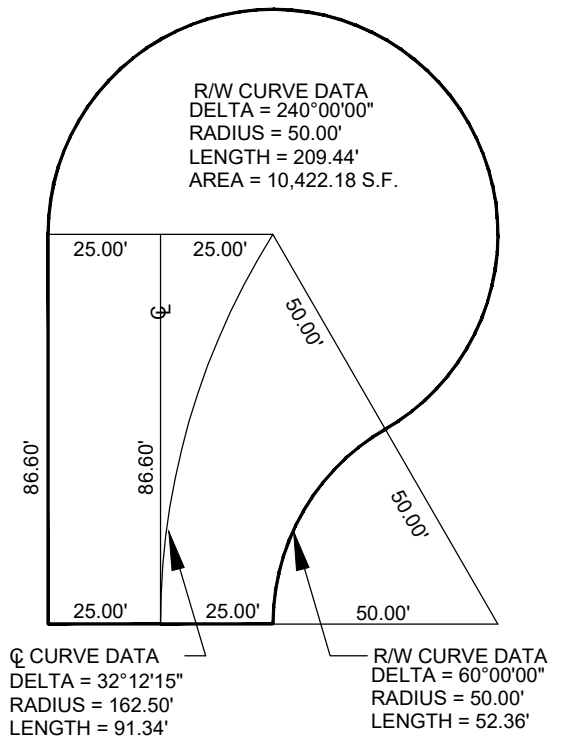
2154

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SHT 2 OF 2



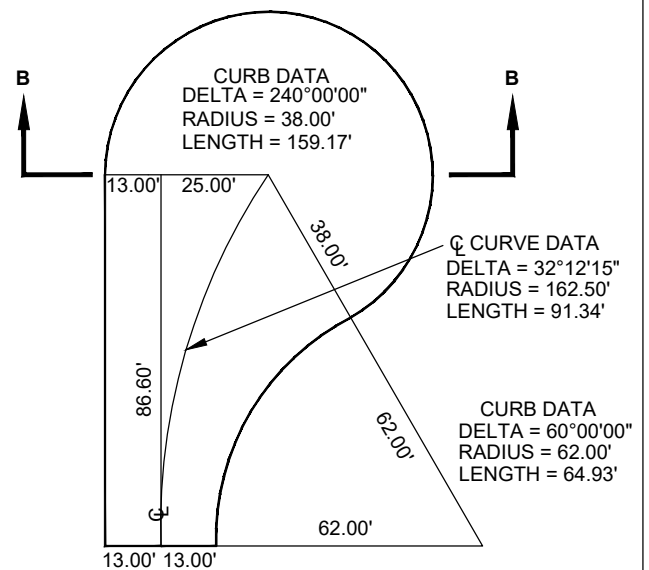
NOTE: ALL DIMENSIONS SHOWN ARE
 FOR RIGHT-OF-WAY ONLY.



PAVEMENT AREA

— — — PAVEMENT AREA ONLY
 AREA = 5102.09 Sq. Ft.

NOTE: ALL DIMENSIONS SHOWN ARE
 TO FACE OF CURB ONLY.



CUL-DE-SAC FOR 26' WIDE STREET ON A 50' RIGHT-OF-WAY

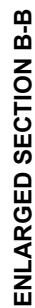
CITY OF COLUMBUS, OHIO
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CITY ENGINEER

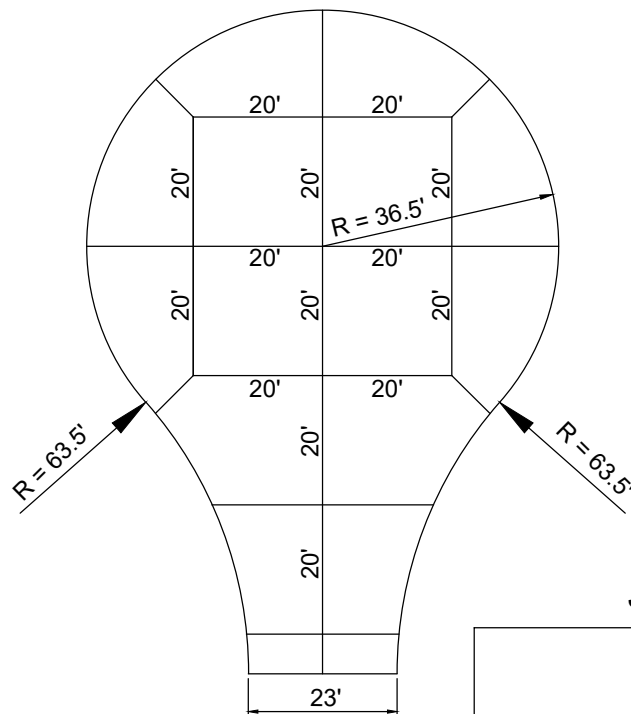
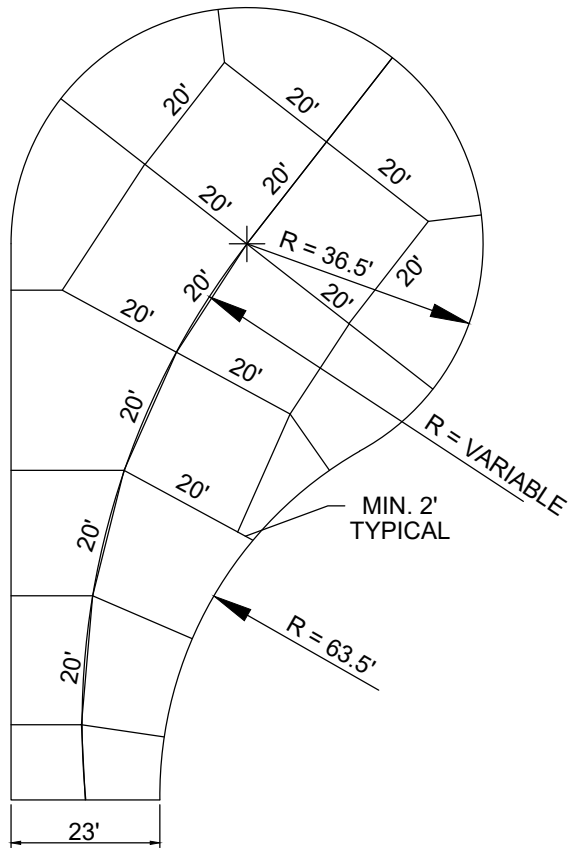
STD DWG
 2156

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SHT 1 OF 3



- ① ITEM 452 - 7" NON-REINFORCED CONCRETE PAVEMENT.



JOINT SPACING DETAIL

CUL-DE-SAC

NOTE: DETAIL APPLIES TO CONCRETE PAVEMENT
OR CONCRETE BASE ONLY.

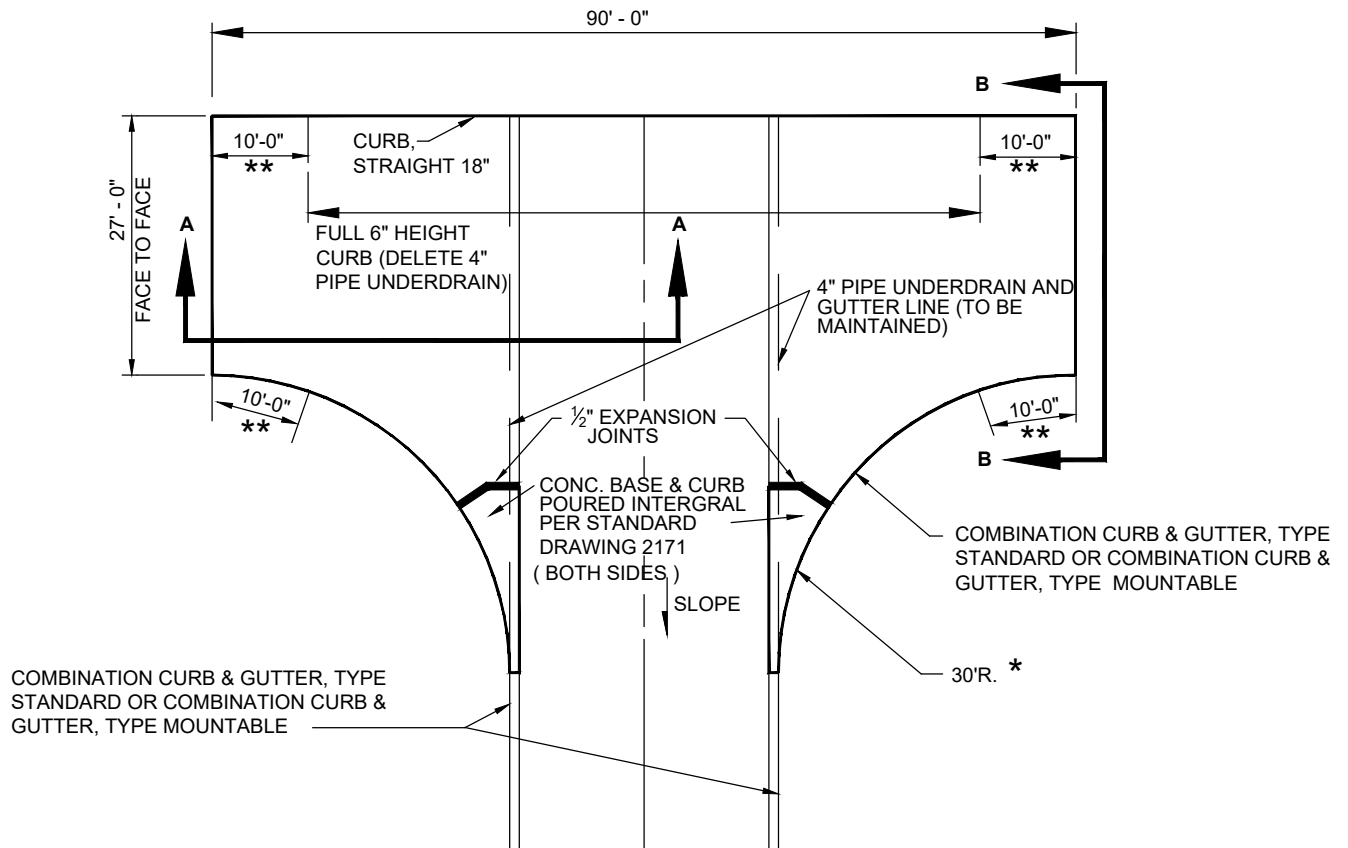
CITY OF COLUMBUS, OHIO
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SHT 3 OF 3



* 20' RADIUS IF 200' OR LESS FROM CENTERLINE OF STREET TO CENTERLINE OF TURNAROUND.

** TAPER CURB 6" TO 1".

UNDERDRAIN SHALL BE SLOPED FOR POSITIVE DRAINAGE TO CURB INLET.

R/W AND EASEMENTS FOR T-TURNAROUND TO BE DETERMINED DURING SITE DEVELOPMENT PHASE AND PLATTING PROCESS.

T - TURNAROUND

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

CITY ENGINEER

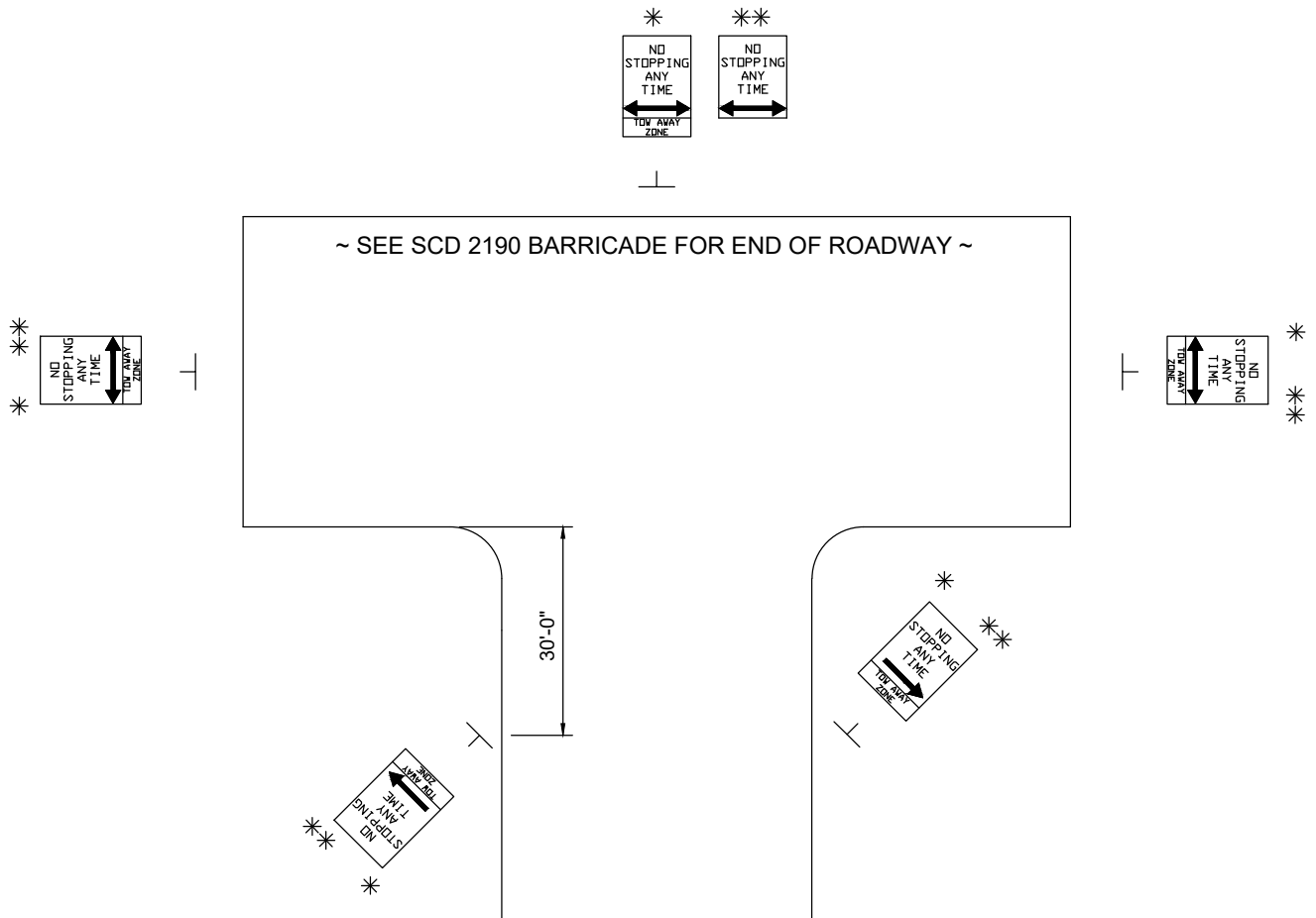
STD DWG
2157

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SHT 2 OF 3



SIGNING SHALL BE INSTALLED TO KEEP
TURNAROUND CLEAR FOR EMERGENCY VEHICLES.
SIGNS ARE TO BE REMOVED IF AND WHEN THE
STREET IS CUT THROUGH.

REFERENCE SUPPLEMENTAL SPECIFICATIONS 1630.

* FOR USE ON
PRIVATE STREETS
ONLY



CP-116.16 (L)(R)(D)
12"x 24"

** FOR USE ON PUBLIC R/W



CP-114.01 (L)(R)(D)
12"x 18"

└─ U-CHANNEL DRIVE POST

SIGNING

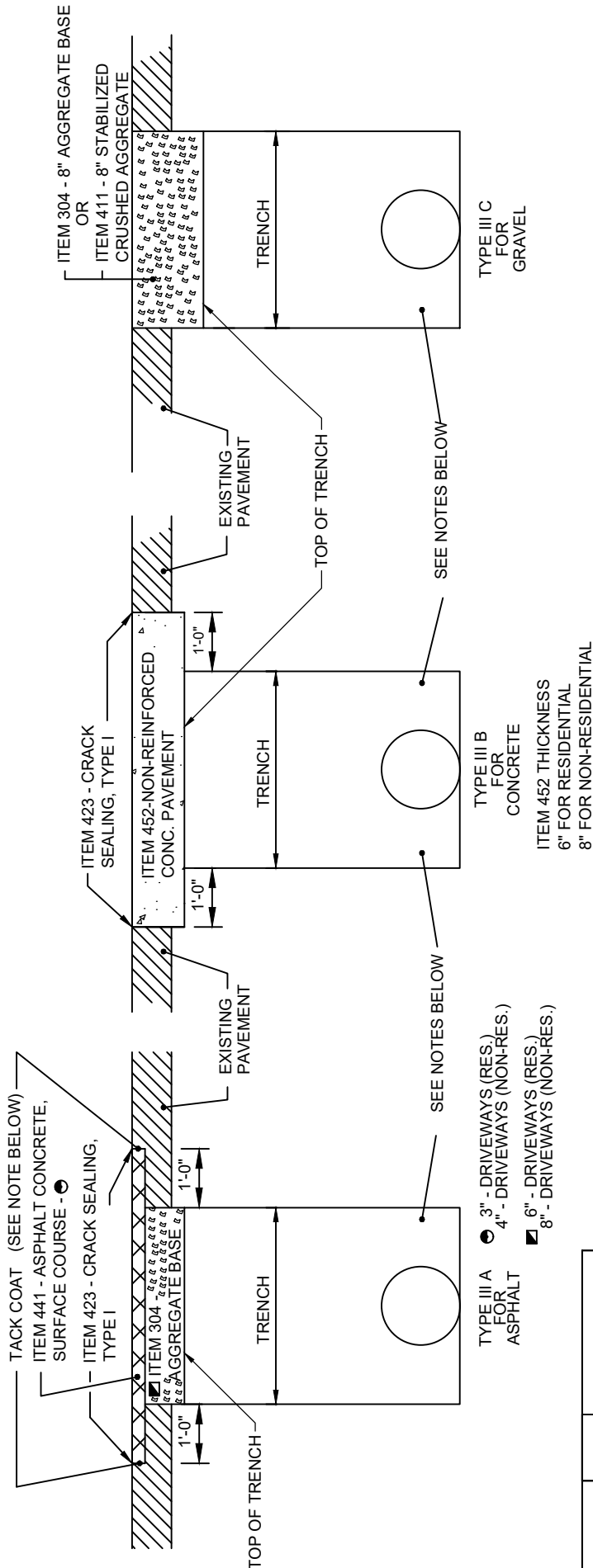
T - TURNAROUND

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

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2157

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BACKFILL FOR ALL TRENCHES SHALL BE IN ACCORDANCE WITH APPLICABLE SPECIFICATIONS.

PERMANENT REPAVING SHALL NOT BE DONE UNTIL SO ORDERED OR APPROVED BY THE ENGINEER. THE EDGE SHALL BE CUT VERTICAL AND TRIMMED TO PROVIDE A STRAIGHT LINE.

ITEM 407 - TACK COAT SHALL BE APPLIED AT A RATE OF 0.08 GAL/SY.

ALL EXISTING CONCRETE WALKS OR CONCRETE PAVEMENTS BEING REPLACED SHALL BE REMOVED AT AN EXISTING JOINT AND REPLACED PER STANDARD DRAWING.

DRIVEWAY PAVEMENT SHALL BE REPLACED BY EITHER MATCHING THE EXISTING MATERIALS & THICKNESS, OR BY USING THE ABOVE THICKNESS, WHICHEVER IS GREATER.

IF COMPLETE DRIVE APPROACH IS BEING REBUILT REFERENCE THE STANDARD DRAWING APPLICABLE TO THE DRIVE.

DRIVEWAY REPLACEMENT

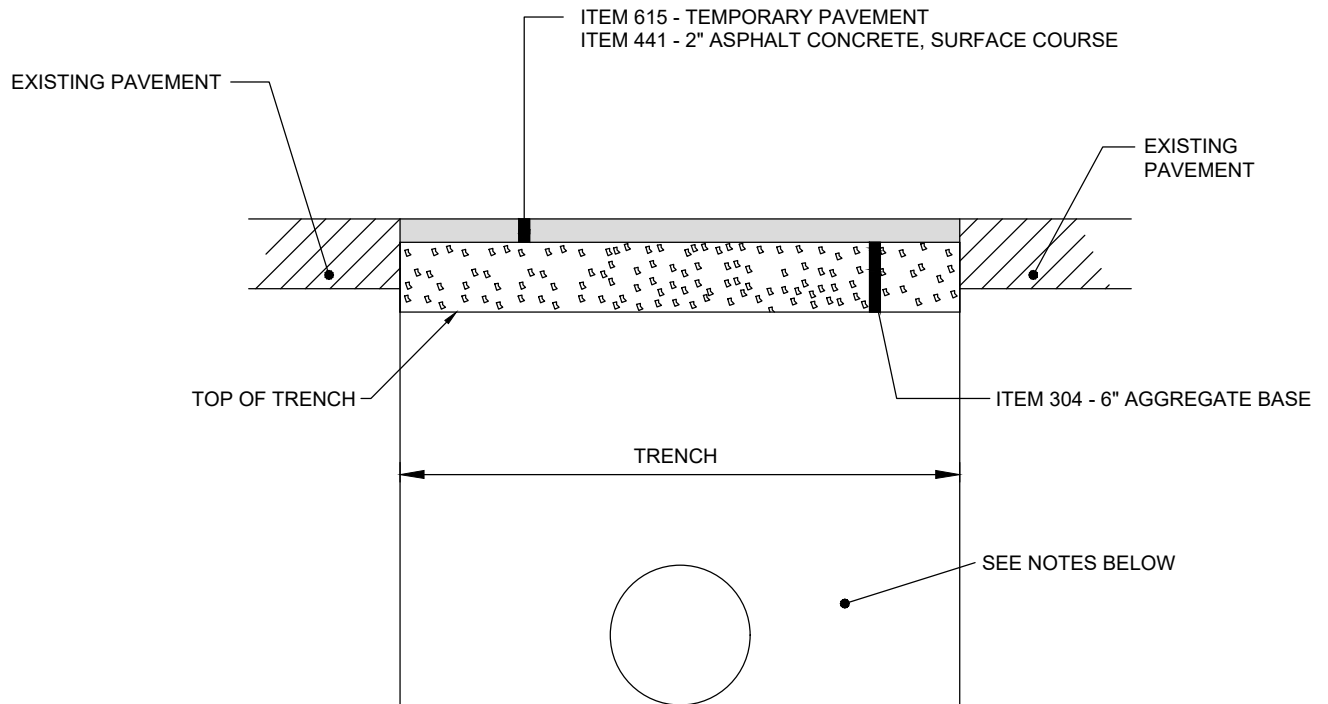
CITY OF COLUMBUS, OHIO
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DIVISION OF DESIGN AND CONSTRUCTION

CITY ENGINEER

STD DWG
2160

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SHT 1 OF 1



BACKFILL FOR ALL TRENCHES SHALL BE IN ACCORDANCE WITH APPLICABLE SPECIFICATIONS.
 TEMPORARY PAVEMENT SHALL BE PLACED ON THE SAME DAY THE ORIGINAL PAVEMENT IS CUT.
 ITEM 441 SHALL NOT BE USED BETWEEN NOVEMBER 1 THROUGH APRIL 1.

TEMPORARY PAVEMENT

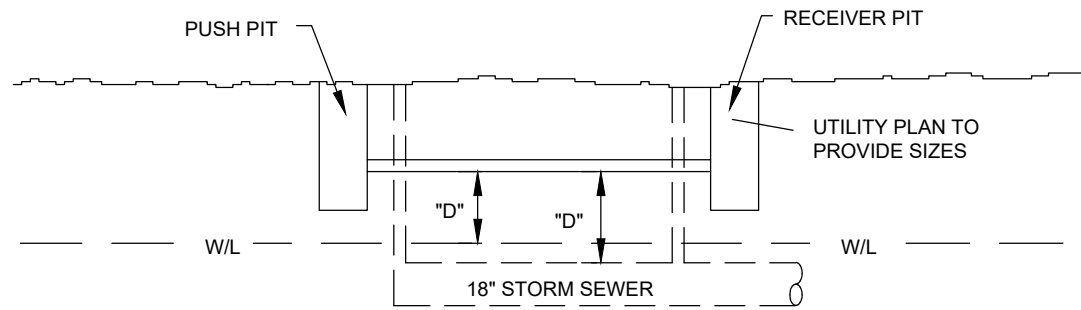
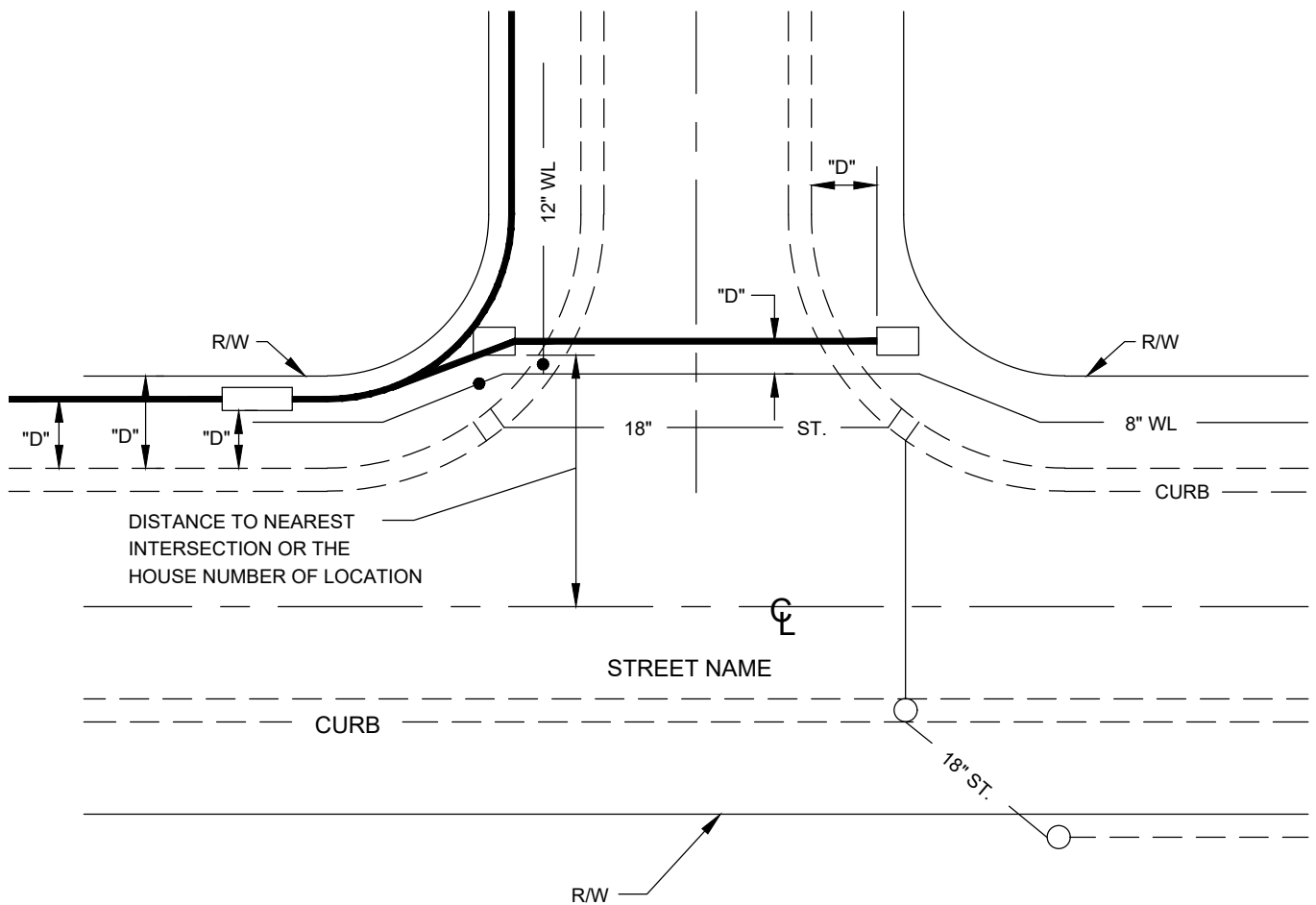
CITY OF COLUMBUS, OHIO
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CITY ENGINEER

STD DWG
2161

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"D" DENOTES WHERE DIMENSIONS ARE NEEDED

PAVEMENT REPLACEMENT SHALL BE
PER STANDARD DRAWING 1441

DIRECTIONAL BORING

CITY OF COLUMBUS, OHIO
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DIVISION OF DESIGN AND CONSTRUCTION

CITY ENGINEER

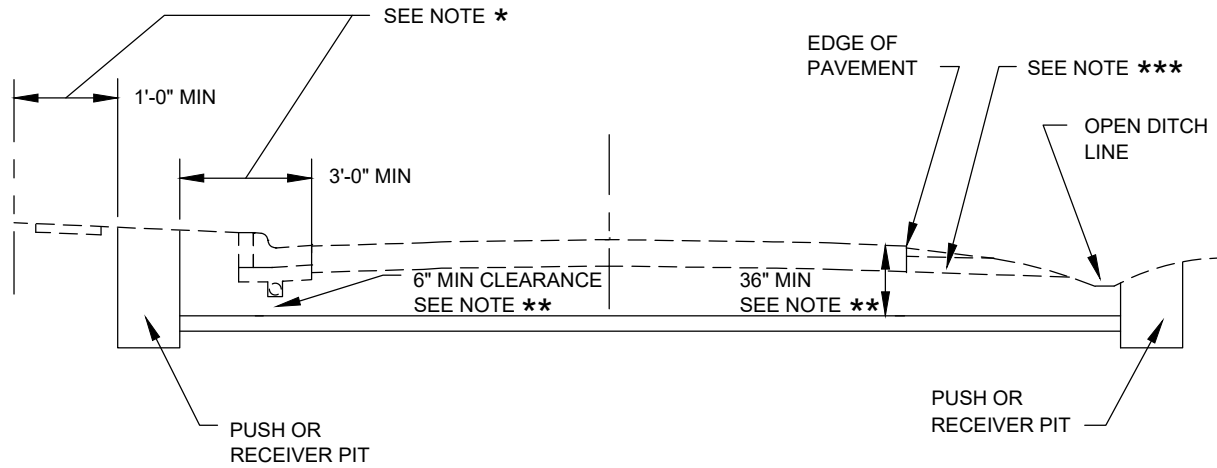
STD DWG
2166

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SHT 1 OF 2

TYPICAL LOCATION
FOR CURBED STREETS

TYPICAL LOCATION
FOR UNCURBED STREETS



NOTES:

* MINIMUM OFFSETS SHALL BE 1 FOOT FROM RIGHT-OF-WAY LINES OR 3 FEET FROM EDGE OF PAVEMENT OR EDGE OF SHOULDER.

** MINIMUM DEPTH FROM TOP OF PUSH TO TOP OF CURB FOR STANDARD COMBINED CURB AND GUTTER IS 30", STRAIGHT CURB 36", AND FLEXIBLE PAVEMENT 36" BELOW TOP OF PAVEMENT.

*** IF AGGREGATE DRAINS ARE DISTURBED, THEY SHALL BE REPLACED.

DIRECTIONAL BORING

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
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SHT 2 OF 2

NOTES

GENERAL: NOTES AND DETAILS SHOWN ON THIS DRAWING SHALL BE CONSIDERED IN CONJUNCTION WITH AND SUPPLEMENTAL TO THE PERTINENT SPECIFICATIONS FOR PORTLAND CEMENT CONCRETE PAVEMENT AND BASES, AND RELATED INCIDENTALS.

JOINT COMPONENTS: THIS DRAWING IS INTENDED FOR USE WITH A UNIFORM DEPTH PAVEMENT. WHEN THE PROJECT INVOLVES THE PLACING OF VARIABLE DEPTH PAVEMENT, THE JOINT COMPONENTS SHALL BE HELD IN PLACE IN ACCORDANCE WITH THE METHOD SHOWN IN THE PLANS OR AS APPROVED BY THE ENGINEER.

CONTRACTION JOINTS: CONTRACTION JOINTS OF THE TYPE SPECIFIED SHALL BE SPACED IN ACCORDANCE WITH THE CONTRACTION JOINT SPACING TABLE.

CONTRACTION JOINT SPACING	
TYPES OF PAVEMENT OR BASE	MAXIMUM SPACING BETWEEN JOINTS
ITEM 451 - REINFORCED CONCRETE PAVEMENT	21'
ITEM 452 - NON-REINFORCED CONCRETE PAVEMENT	15'
ITEM 305 - CONCRETE BASE	15'
ITEM 307 - RCC	30'

CONSTRUCTION JOINTS: IN ITEM 305 - CONCRETE BASE, A CONSTRUCTION JOINT SHALL NOT BE LOCATED CLOSER THAN 6' TO ANOTHER PARALLEL JOINT.

KERF AND SEAL CONFORMING IN ALL ASPECTS TO DETAILS SHOWN FOR CONTRACTION JOINTS SHALL BE PROVIDED AT EACH CONSTRUCTION JOINT IN CONCRETE PAVEMENT AND BASE.

JOINT DETAILS FOR PORTLAND CEMENT CONCRETE PAVING

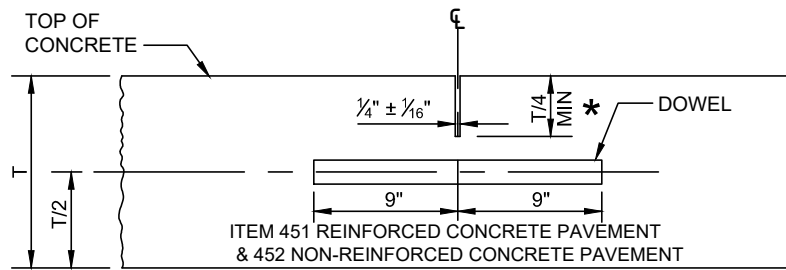
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CITY ENGINEER

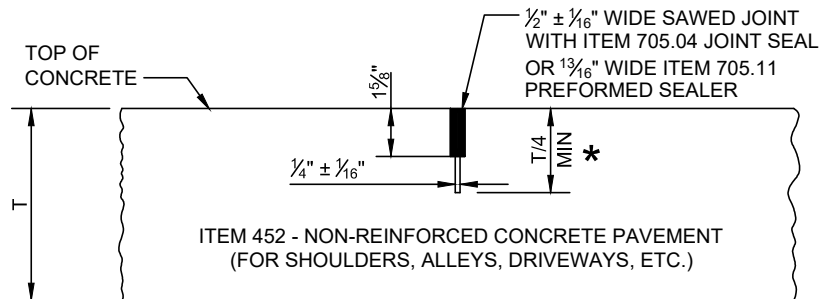
STD DWG
2170

04/30/18

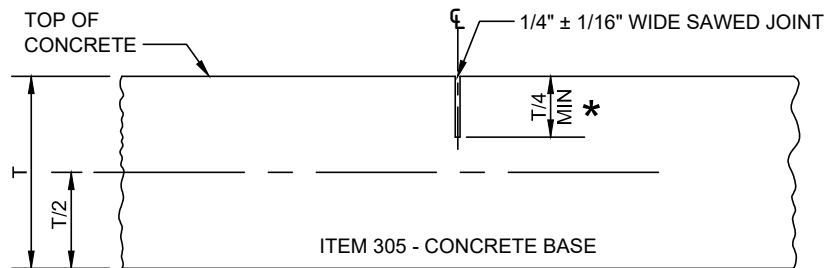
SHT 1 OF 6



ITEM 451 & 452 W/ UNSEALED JOINTS
(DOWEL BAR OMITTED FOR SHOULDERS, ALLEYS, DRIVEWAYS, ETC.)



ITEM 452 W/ SEALED JOINTS



ITEM 305

* WHERE $T > 10"$, THE SAWCUT DEPTH SHALL BE $T/3$.

CONTRACTION JOINT SECTIONS

JOINT DETAILS FOR PORTLAND CEMENT CONCRETE PAVING

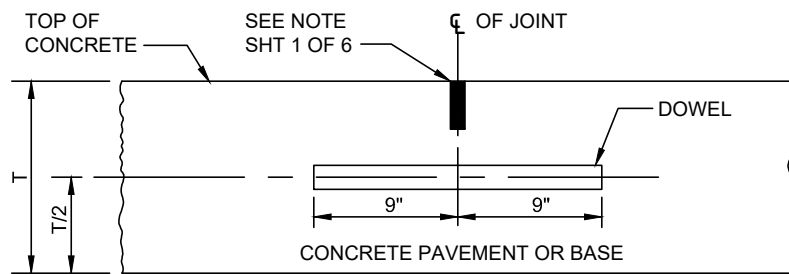
CITY OF COLUMBUS, OHIO
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DIVISION OF DESIGN AND CONSTRUCTION

STD DWG

2170

04/30/18

SHT 2 OF 6



SECTION THROUGH CONSTRUCTION JOINT

CONSTRUCTION JOINT

JOINT DETAILS FOR PORTLAND CEMENT CONCRETE PAVING

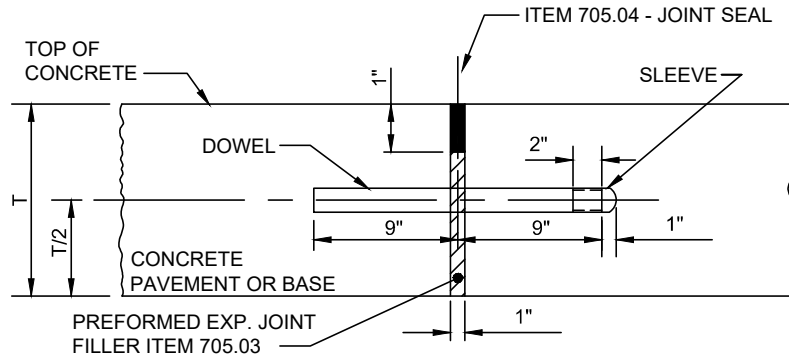
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DIVISION OF DESIGN AND CONSTRUCTION

STD DWG

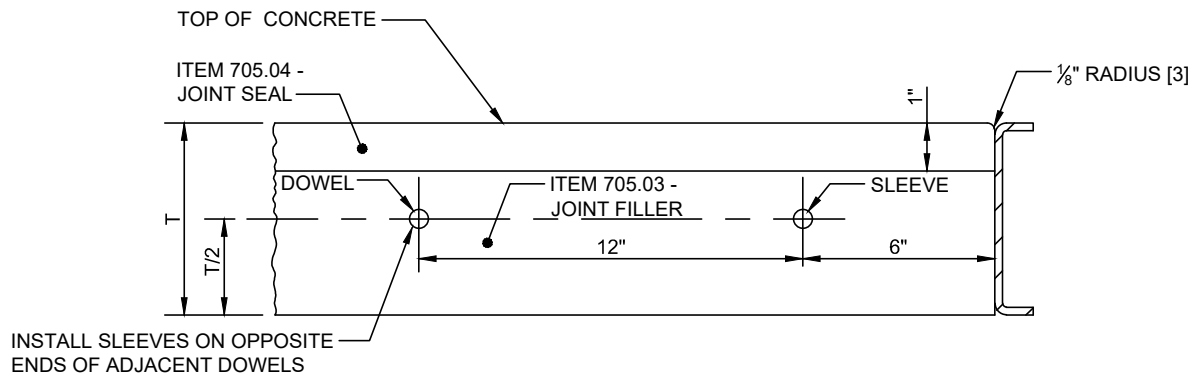
2170

04/30/18

SHT 3 OF 6



SECTION THROUGH EXPANSION JOINT



SIDE ELEVATION OF EXPANSION JOINT
(THROUGH CONCRETE PAVEMENT OR BASE)

EXPANSION JOINTS

JOINT DETAILS FOR PORTLAND CEMENT CONCRETE PAVING

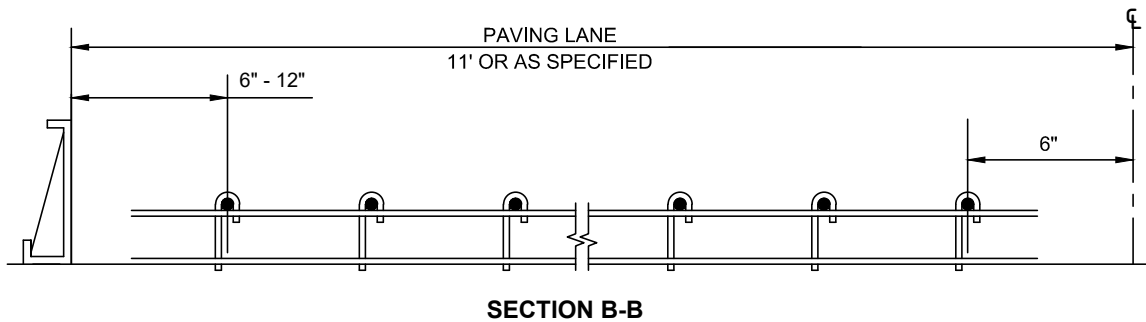
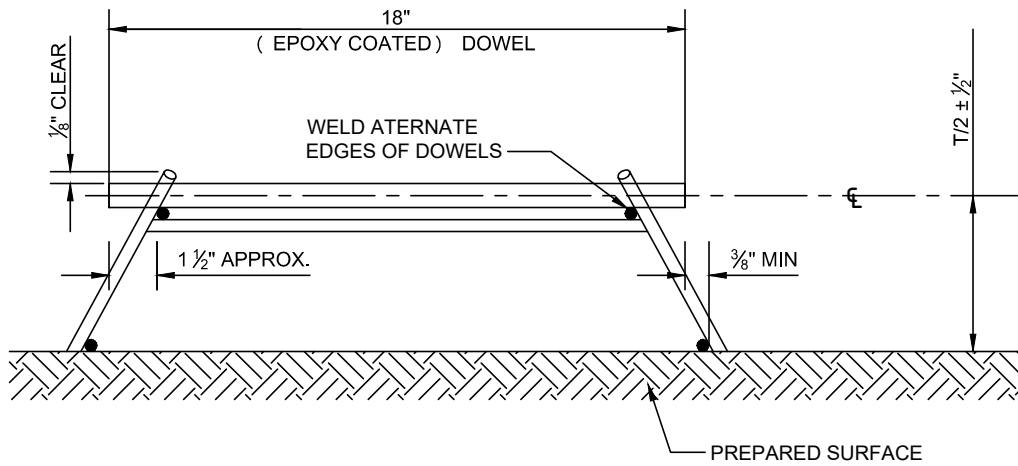
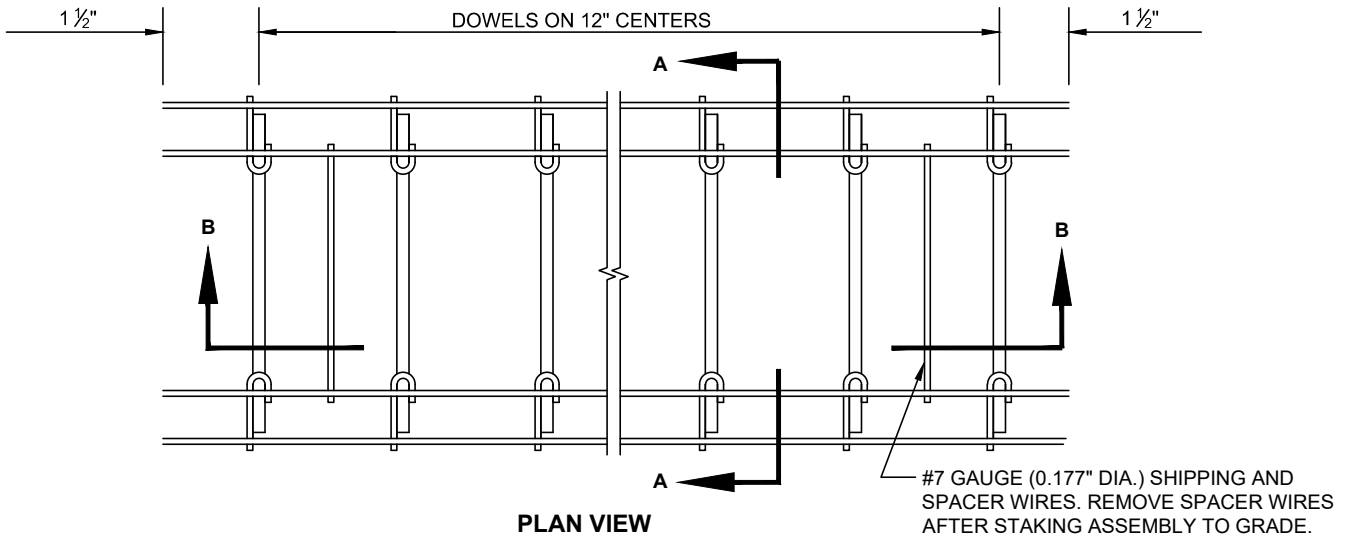
CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

STD DWG

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SHT 4 OF 6



DOWEL BASKET ASSEMBLY

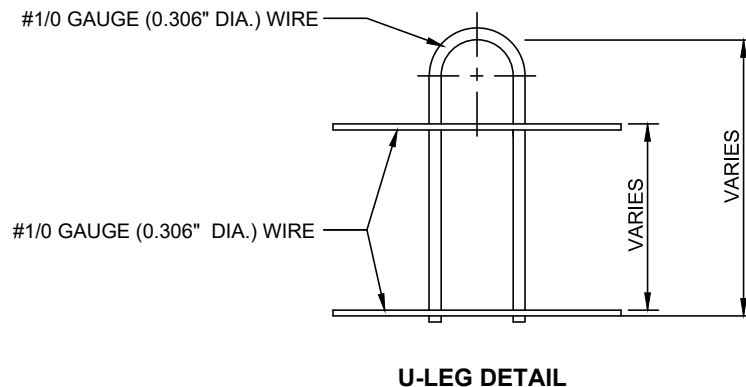
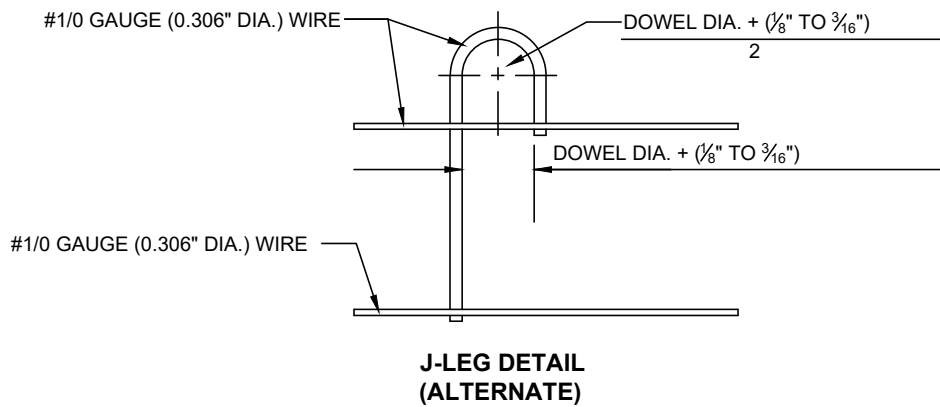
JOINT DETAILS FOR PORTLAND CEMENT CONCRETE PAVING

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
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REFER TO CMSC 451.09.B AND 709.13 FOR DOWEL SPECIFICATIONS.

WIRE SIZES SHOWN ARE MINIMUM REQUIRED.

ALL WIRE INTERSECTIONS ARE TO BE WELDED.

STAKES TYPICALLY APPLIED AT WORKING ENDS OF DOWEL.

TOLERANCES:

- A) $\pm \frac{1}{4}$ " PER FOOT UNLESS OTHERWISE SPECIFIED.
- B) CENTERLINE OF INDIVIDUAL DOWELS SHALL BE PARALLEL TO EACH OTHER, THE SURFACE AND THE CENTERLINE OF THE SLAB.
- C) ON CENTERS SHOULD BE $\pm \frac{1}{2}$ ".
- D) DOWELS SHOULD BE PLACED AT MID-DEPTH OF SLAB.

J-LEG OR U-LEG TO BE INSTALLED ON INSIDE OR OUTSIDE OF SUBFRAME.

DOWEL BASKET ASSEMBLY

JOINT DETAILS FOR PORTLAND CEMENT CONCRETE PAVING

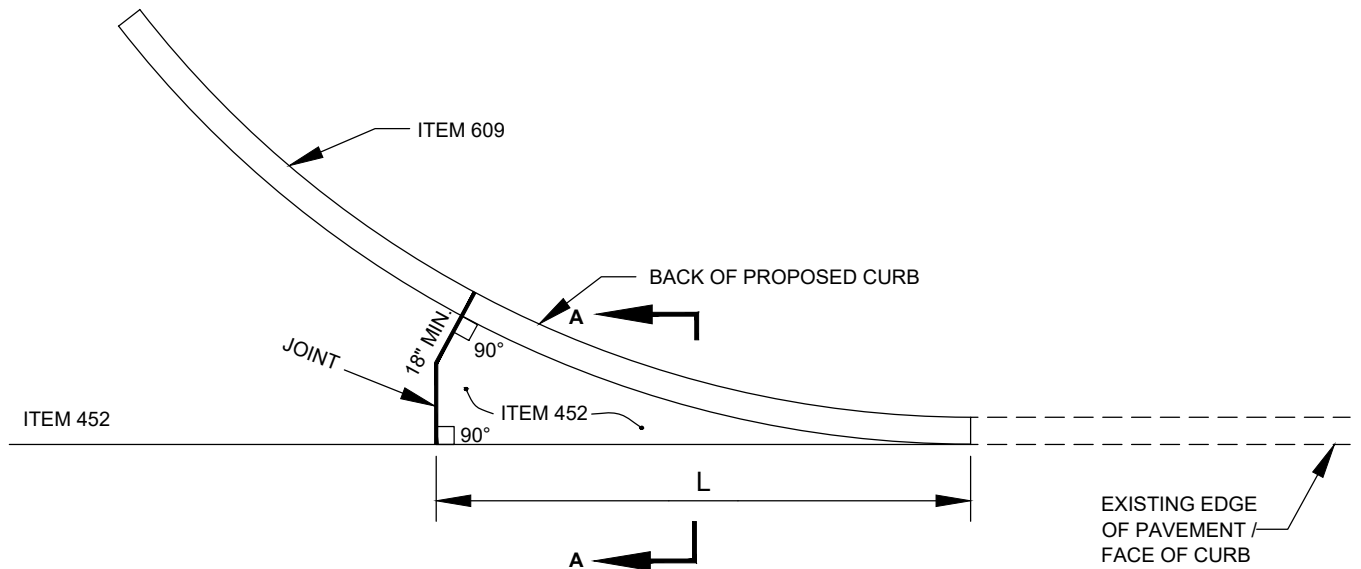
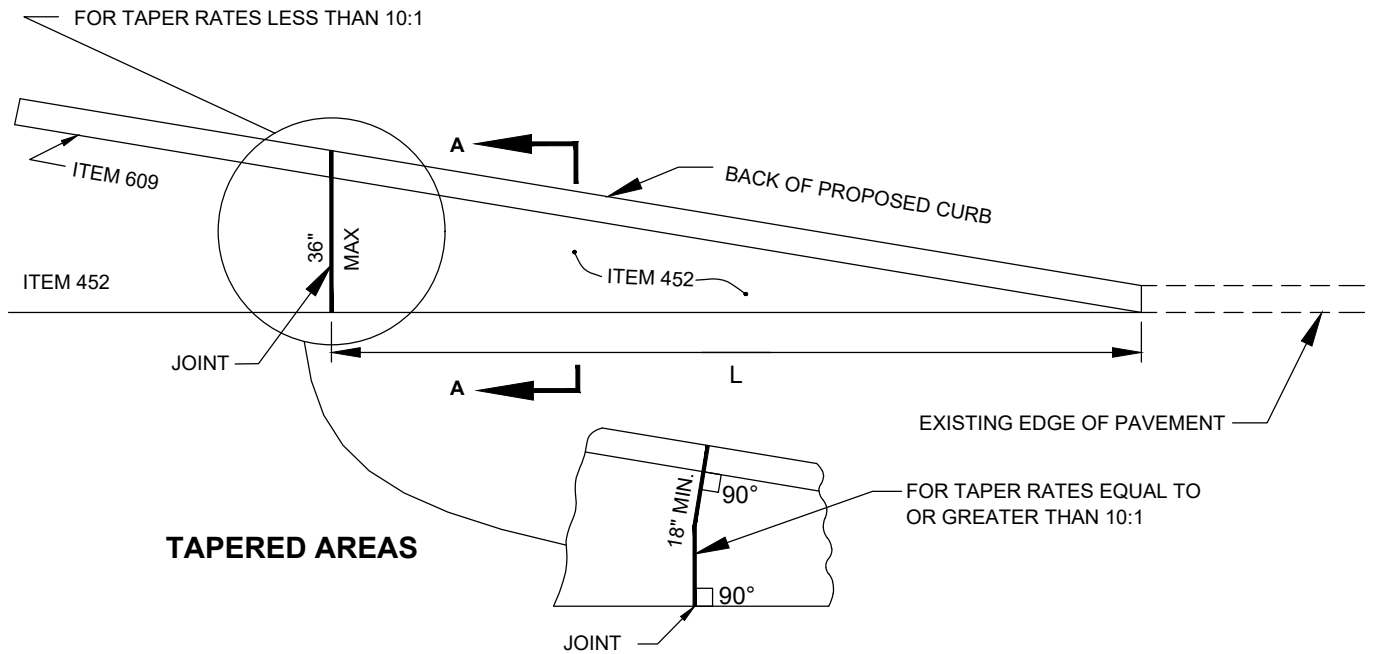
CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

STD DWG

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SHT 6 OF 6



JOINT LOCATIONS

TRANSITION SECTION TO BE USED WHEN WIDTH OF CONCRETE BASE MATERIAL IS LESS THAN 36".

IF LENGTH L IS GREATER THAN 9 FEET, SAW IN EQUAL SEGMENTS 5 FEET TO 9 FEET LONG.

TRANSITION SECTION FOR CONCRETE PAVEMENT

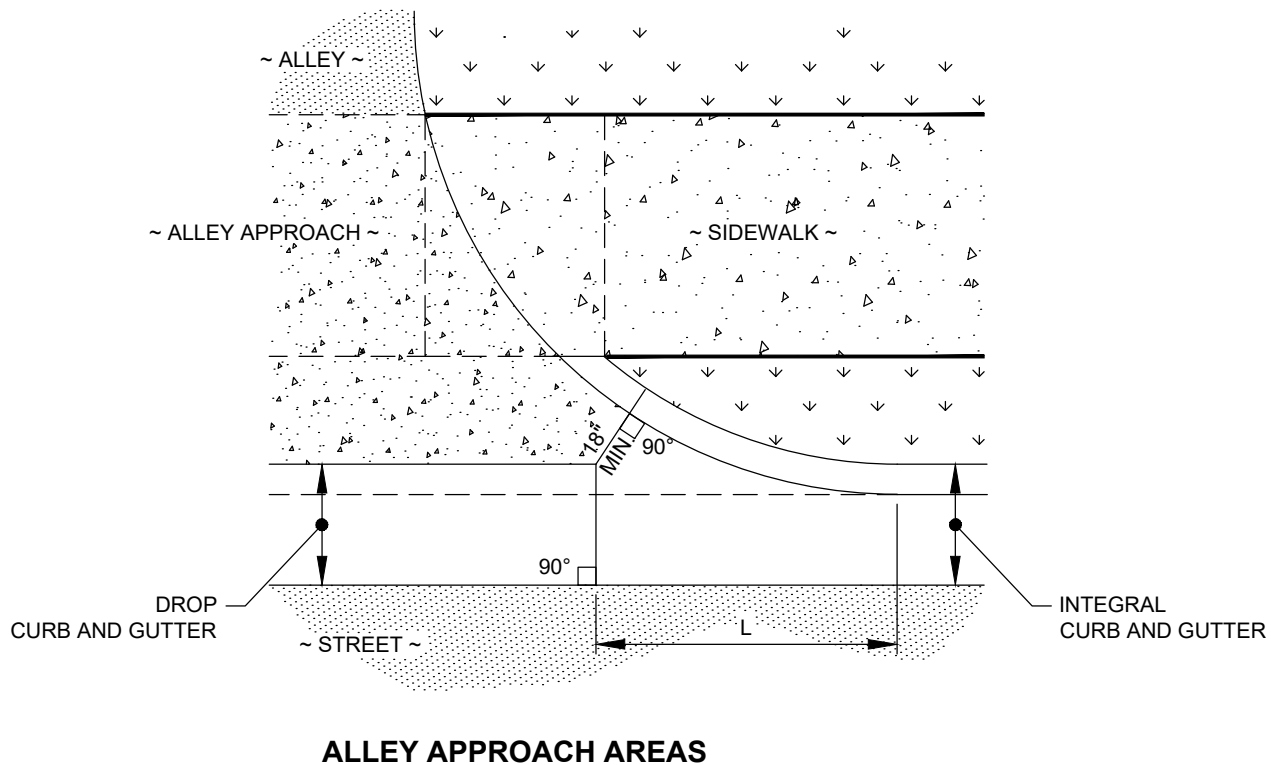
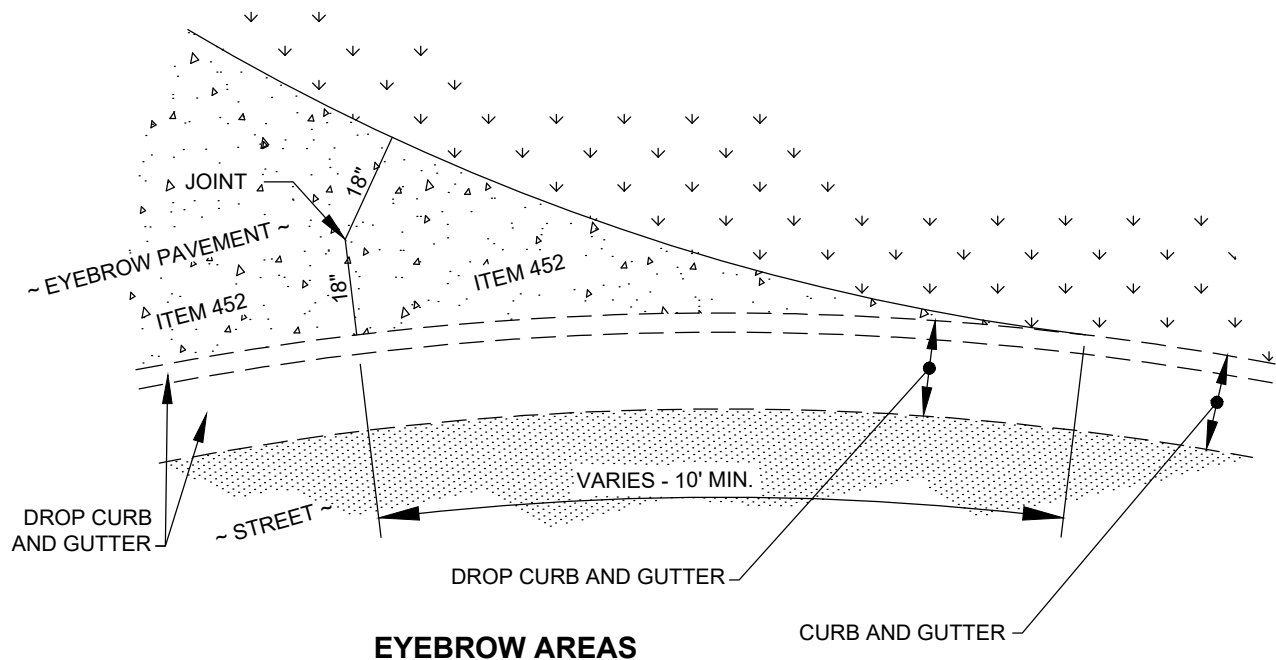
CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

CITY ENGINEER

STD DWG
2171

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SHT 1 OF 3



JOINT LOCATIONS

TRANSITION SECTION TO BE USED WHEN WIDTH OF CONCRETE BASE MATERIAL IS LESS THAN 36".

IF LENGTH L IS GREATER THAN 9 FEET, SAW IN EQUAL SEGMENTS 5 FEET TO 9 FEET LONG.

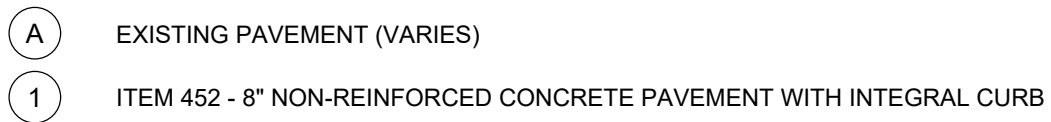
TRANSITION SECTION FOR CONCRETE PAVEMENT

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

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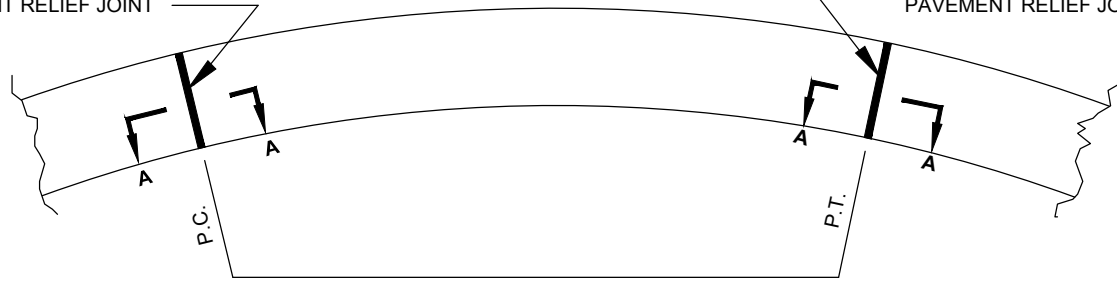
SHT 2 OF 3



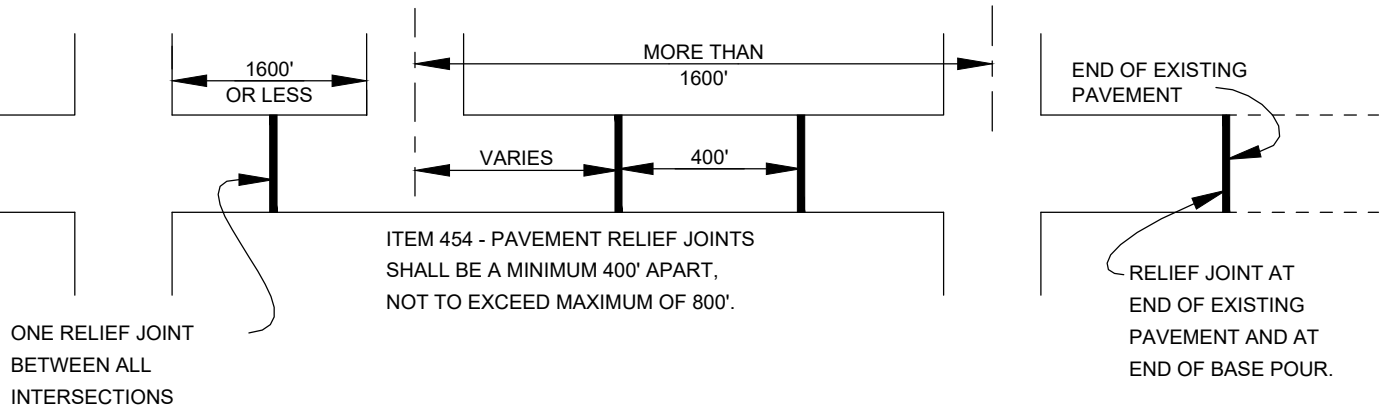
SHT 3 OF 3

ITEM 454 -
PAVEMENT RELIEF JOINT

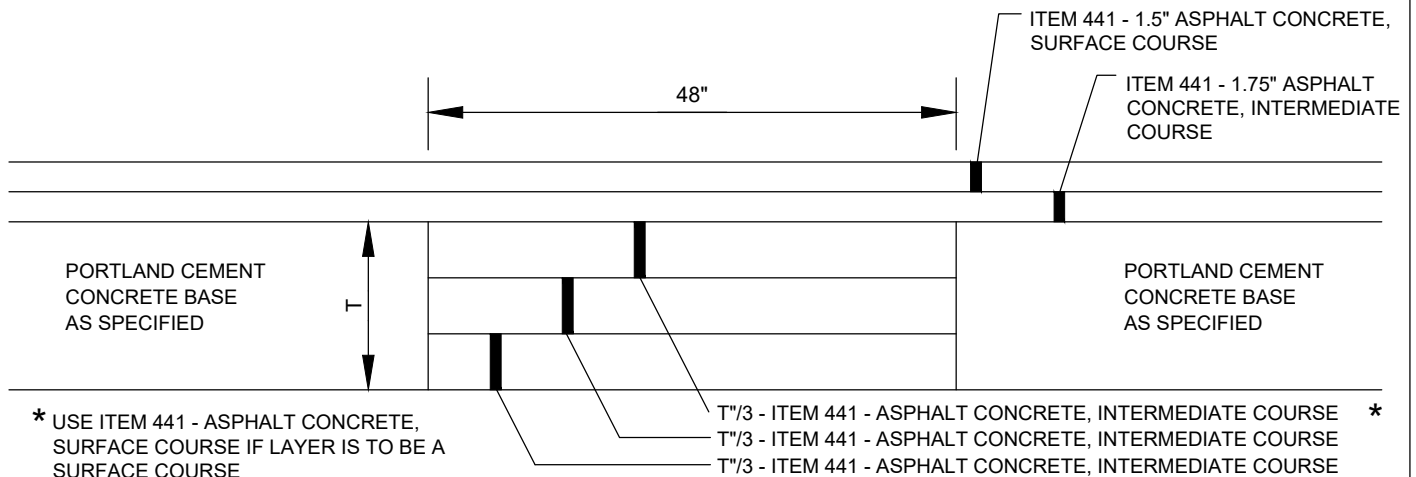
ITEM 454 -
PAVEMENT RELIEF JOINT



RELIEF JOINT DETAIL IS FOR PAVEMENT SECTIONS WITH A CENTERLINE
RADIUS OF UP TO 500' AND A DELTA (Δ) GREATER THAN 50°



TYPICAL LOCATION PLAN



* USE ITEM 441 - ASPHALT CONCRETE,
SURFACE COURSE IF LAYER IS TO BE A
SURFACE COURSE

USE TYPE 2 FOR THE INTERMEDIATE
COURSE ASPHALT.

SECTION A-A

FOR CONCRETE BASE PAVEMENT

PAVEMENT RELIEF JOINT DETAIL (RESIDENTIAL)

CITY OF COLUMBUS, OHIO
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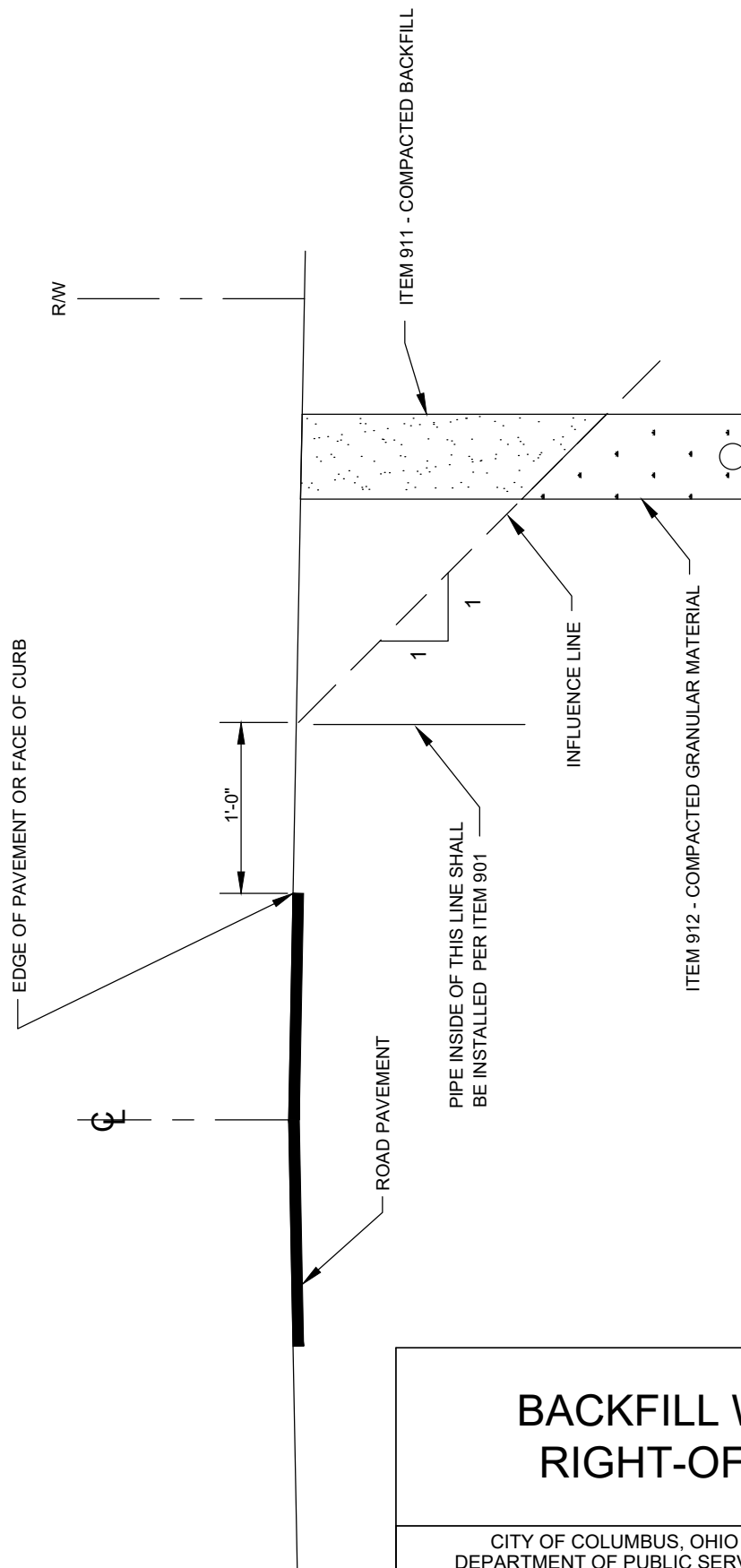
STD DWG
2175

04/30/18

SHT 1 OF 1

2" EXPANSION MATERIAL SHALL BE
PLACED AT ALL PAVEMENT RELIEF
JOINTS IN THE STRAIGHT CURB,
OR CURB AND GUTTER AND
CENTERED ON THE PAVEMENT
RELIEF JOINT.

ALL RESIDENTIAL RELIEF JOINTS
SHOULD BE LOCATED OR
RELOCATED AWAY FROM
DRIVEWAYS, IF POSSIBLE.



BACKFILL WITHIN RIGHT-OF-WAY

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

CITY ENGINEER

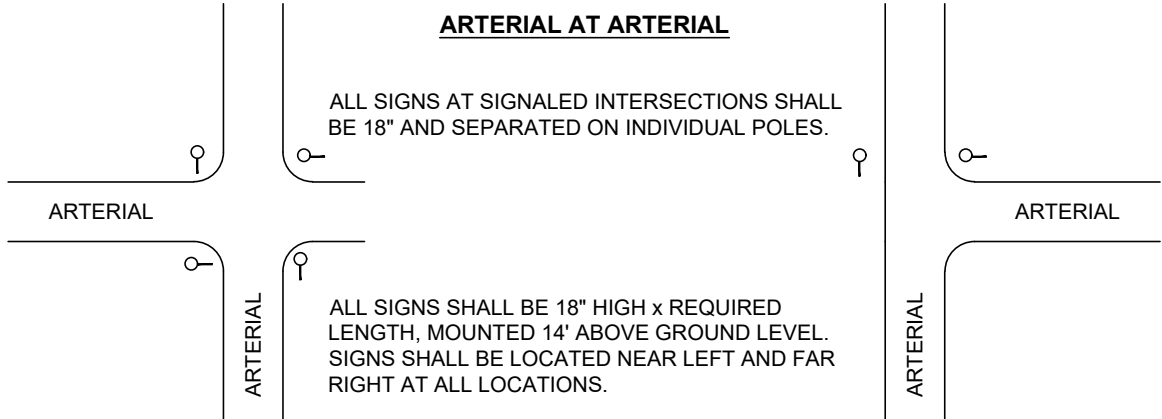
STD DWG
2179

12/31/18

SHT 1 OF 1

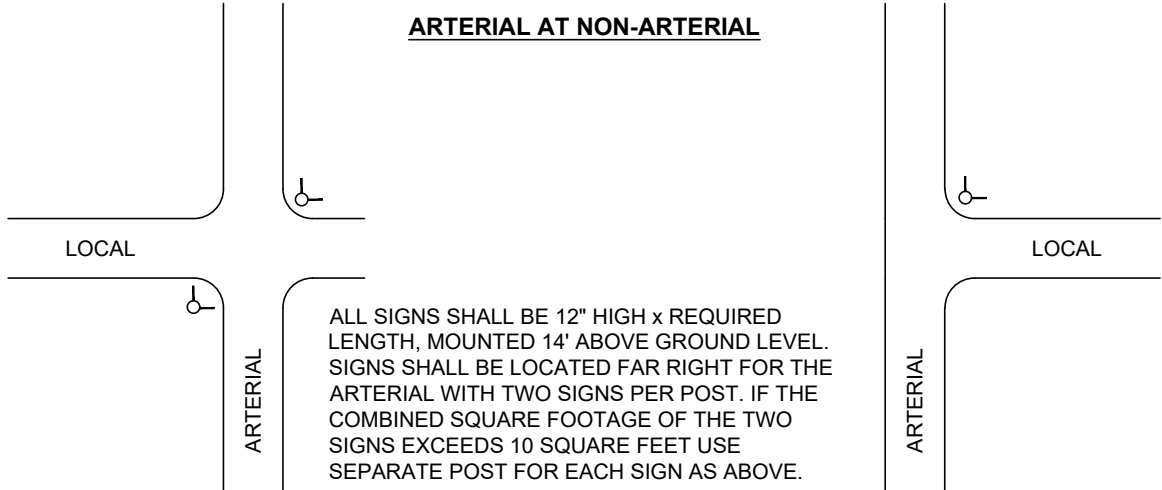
ARTERIAL AT ARTERIAL

ALL SIGNS AT SIGNED INTERSECTIONS SHALL BE 18" AND SEPARATED ON INDIVIDUAL POLES.



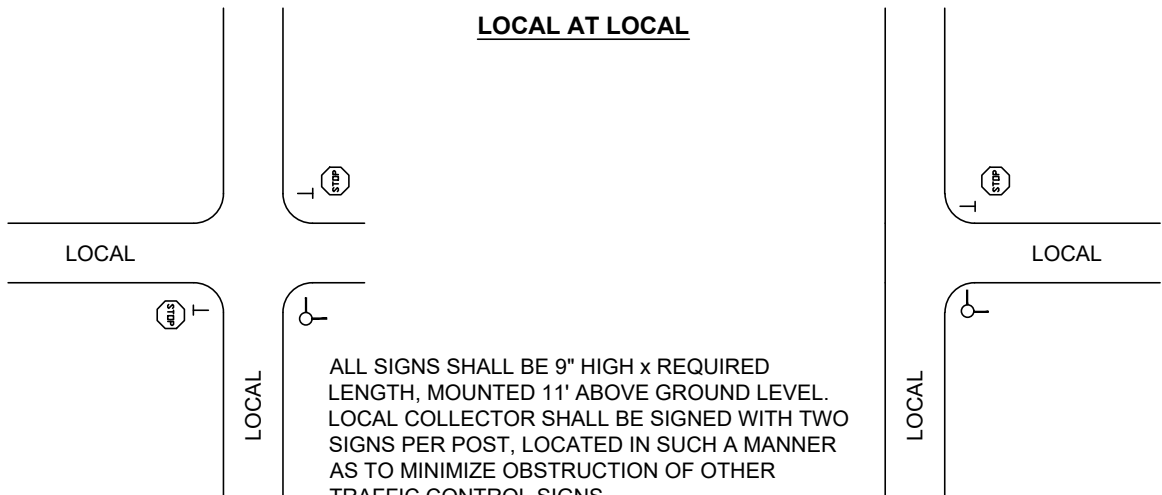
ARTERIAL AT NON-ARTERIAL

ALL SIGNS SHALL BE 12" HIGH x REQUIRED LENGTH, MOUNTED 14' ABOVE GROUND LEVEL. SIGNS SHALL BE LOCATED FAR RIGHT FOR THE ARTERIAL WITH TWO SIGNS PER POST. IF THE COMBINED SQUARE FOOTAGE OF THE TWO SIGNS EXCEEDS 10 SQUARE FEET USE SEPARATE POST FOR EACH SIGN AS ABOVE.



LOCAL AT LOCAL

ALL SIGNS SHALL BE 9" HIGH x REQUIRED LENGTH, MOUNTED 11' ABOVE GROUND LEVEL. LOCAL COLLECTOR SHALL BE SIGNED WITH TWO SIGNS PER POST, LOCATED IN SUCH A MANNER AS TO MINIMIZE OBSTRUCTION OF OTHER TRAFFIC CONTROL SIGNS.



PLACEMENT

STREET NAME SIGN

LOCAL COLLECTOR AND RESIDENTIAL STREETS SHALL HAVE THE SAME SIZE POST AND PLACEMENT STANDARDS.

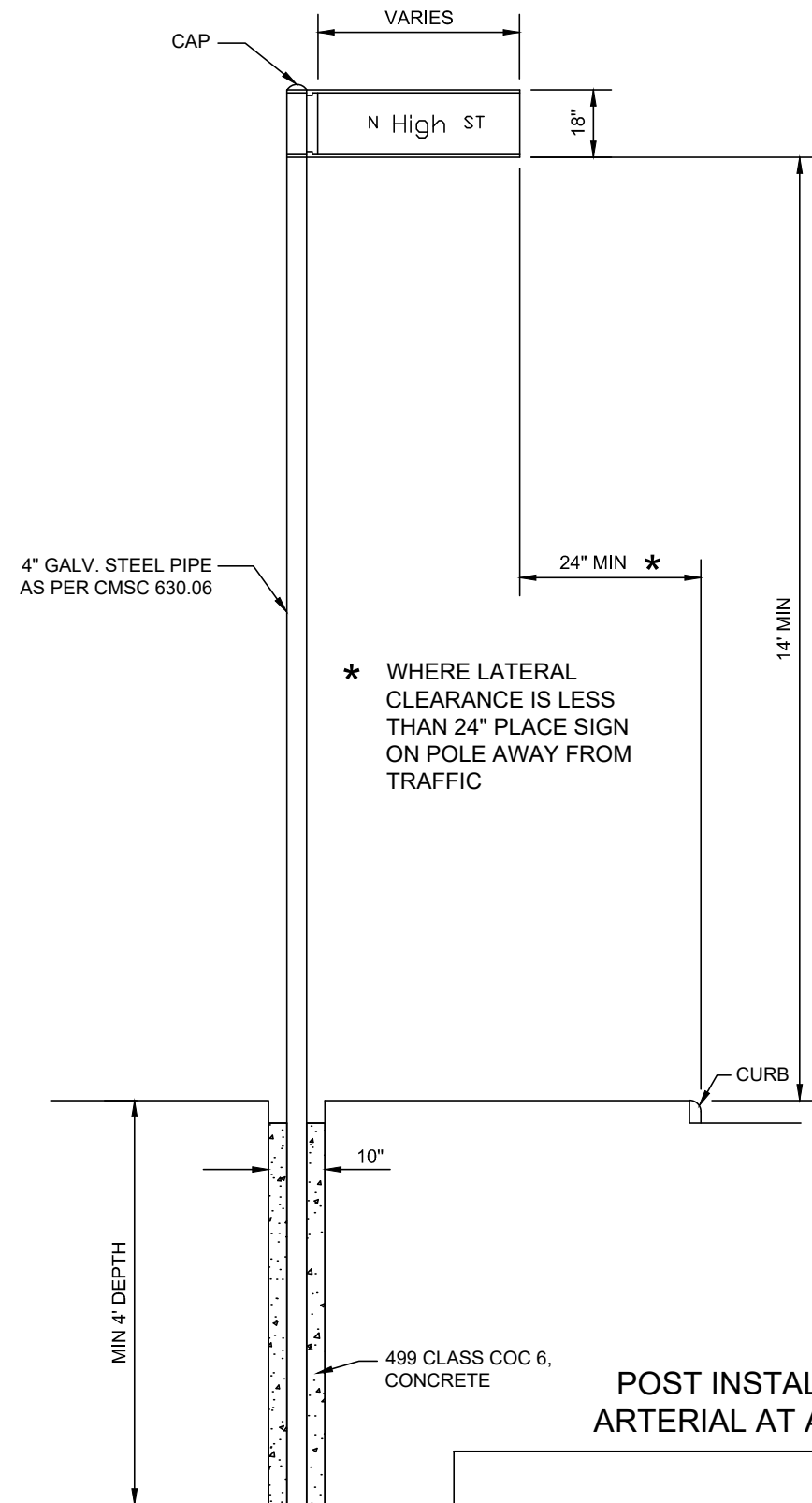
CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

STD DWG
2185

CITY ENGINEER

3/30/2018

SHT 1 OF 9



DIMENSIONS SHOWN SHALL BE CONSIDERED MINIMUM DIMENSIONS FOR NEW INSTALLATIONS AS WELL AS FOR INSTALLATIONS USING EXISTING SUPPORTS SUCH AS UTILITY POLES AND TRAFFIC SIGNAL POLES.

ONLY ONE STREET NAME SIGN PER SUPPORT SHALL BE LOCATED NEAR-LEFT AND FAR-RIGHT AT ALL LOCATIONS UNLESS OTHERWISE SPECIFIED.

STREET NAME SIGN

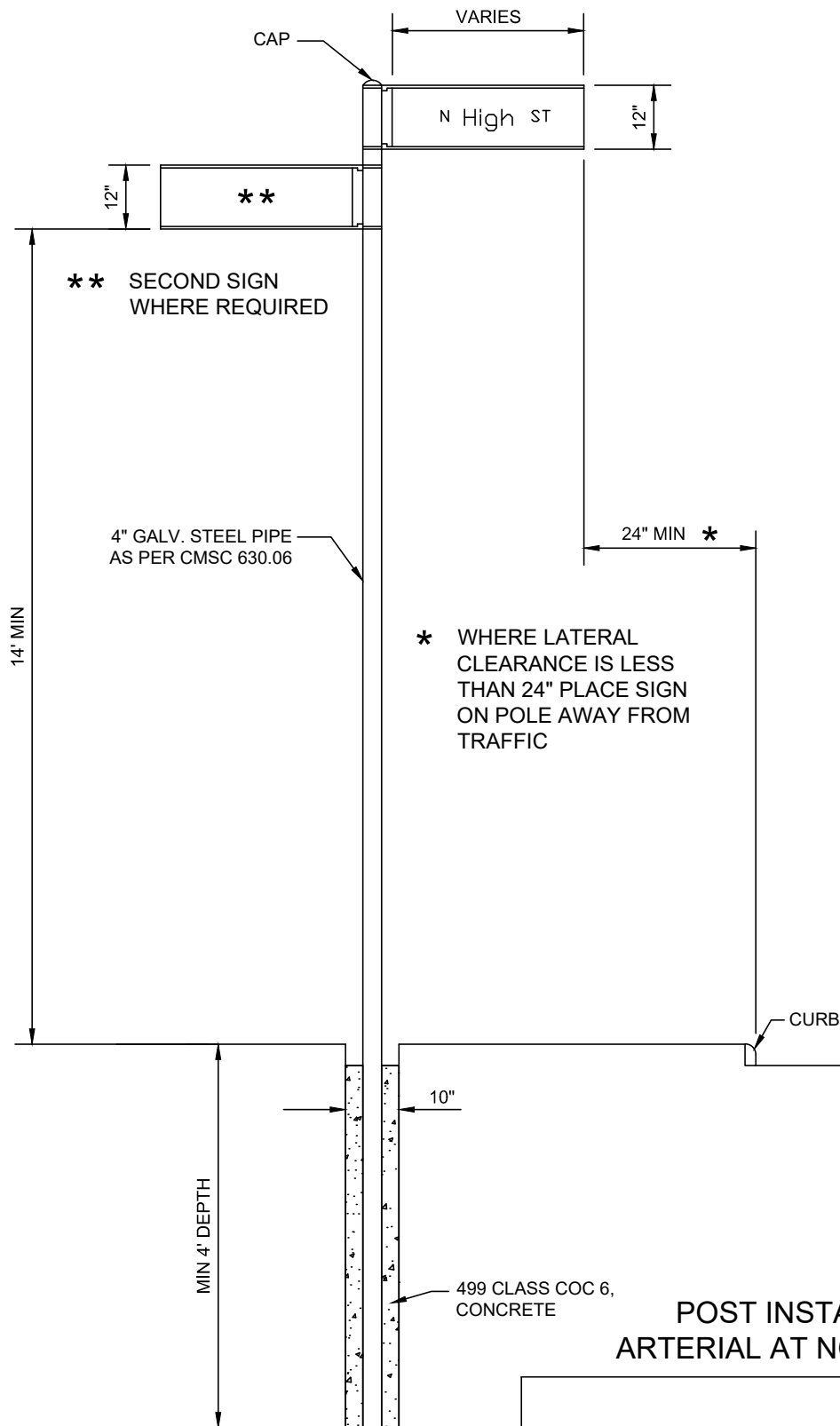
CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

STD DWG

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SHT 2 OF 9



POST INSTALLATION ARTERIAL AT NON-ARTERIAL

STREET NAME SIGN

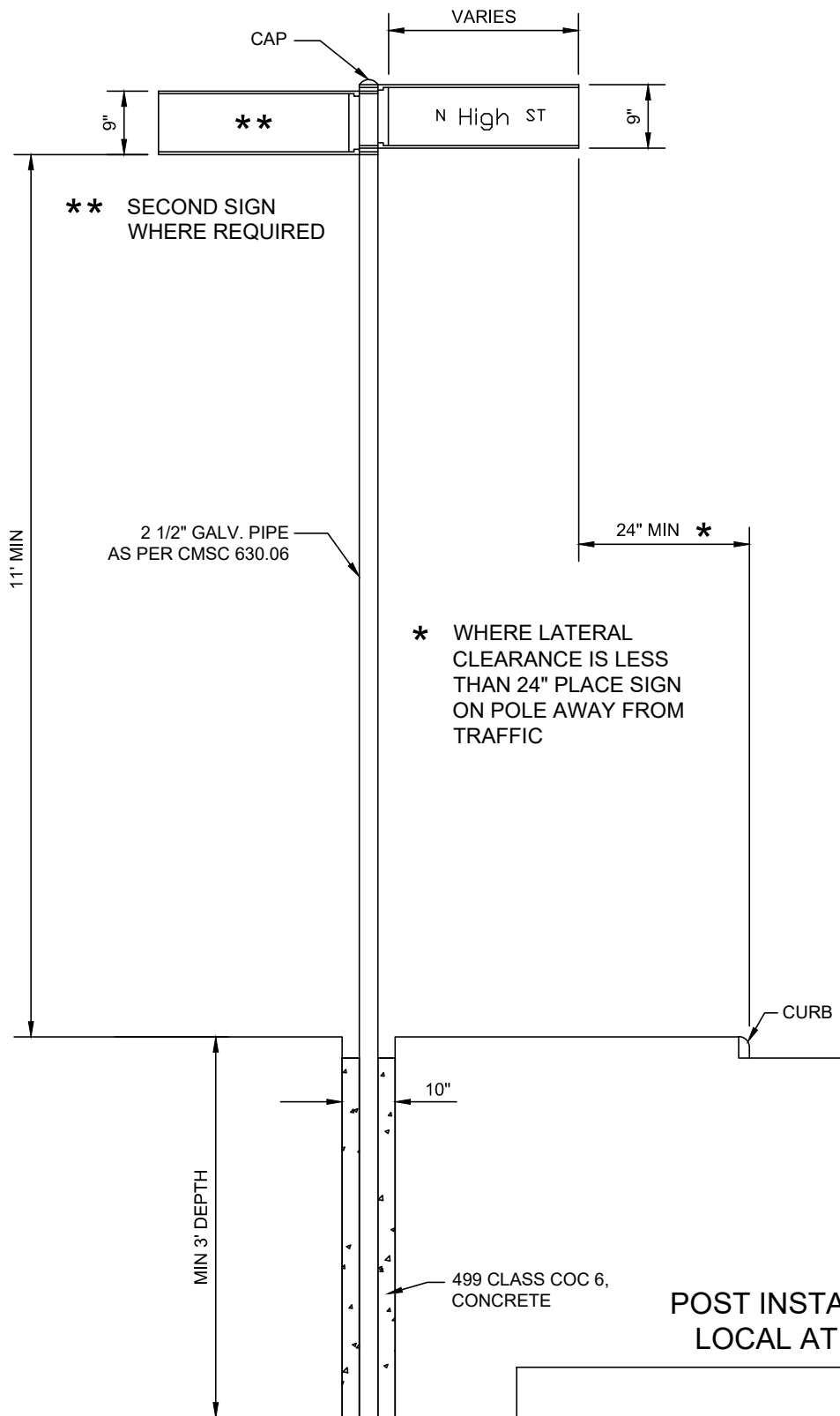
SIGNS SHALL BE LOCATED FAR-RIGHT FOR THE ARTERIAL WITH 2 SIGNS PER SUPPORT. IF THE COMBINED SQUARE FOOTAGE EXCEEDS 10 SQUARE FEET, A SEPARATE SUPPORT SHALL BE USED FOR EACH SIGN.

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

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SHT 3 OF 9



POST INSTALLATION
LOCAL AT LOCAL

STREET NAME SIGN

LOCAL COLLECTOR AND RESIDENTIAL STREETS
SHALL BE TREATED THE SAME.

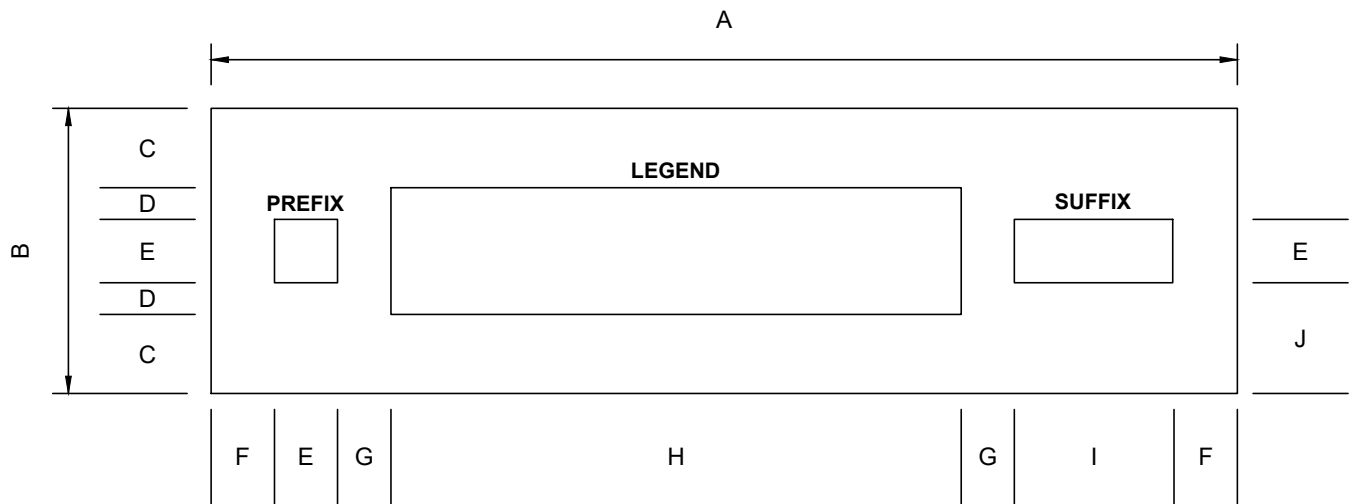
CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

STD DWG

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SHT 4 OF 9



SIZE	A	B	C	D	E	F	G	H	I	J
9" SIGN	VARIES	9.0"	2.5"	1.0"	2.0"	2.0" MIN	2.0" MIN	VARIES	VARIES	3.5"
12" SIGN	VARIES	12.0"	3.0"	1.5"	3.0"	3.0" MIN	3.0" MIN	VARIES	VARIES	4.5"
18" SIGN	72.0" MAX	18.0"	5.0"	2.0"	4.0"	4.0" MIN	4.0" MIN	VARIES	VARIES	7.0"

BLADE

STREET NAME SIGN

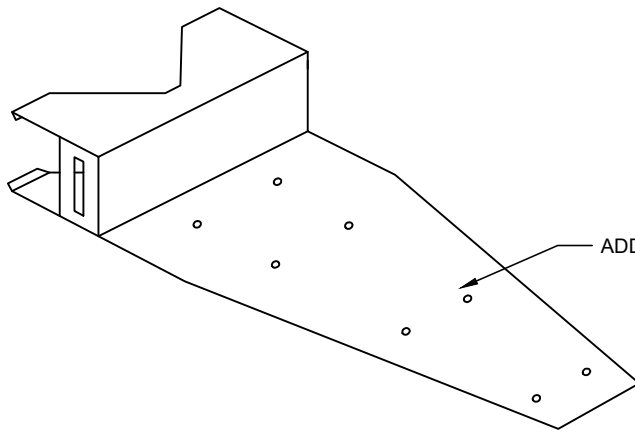
CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

STD DWG

2185

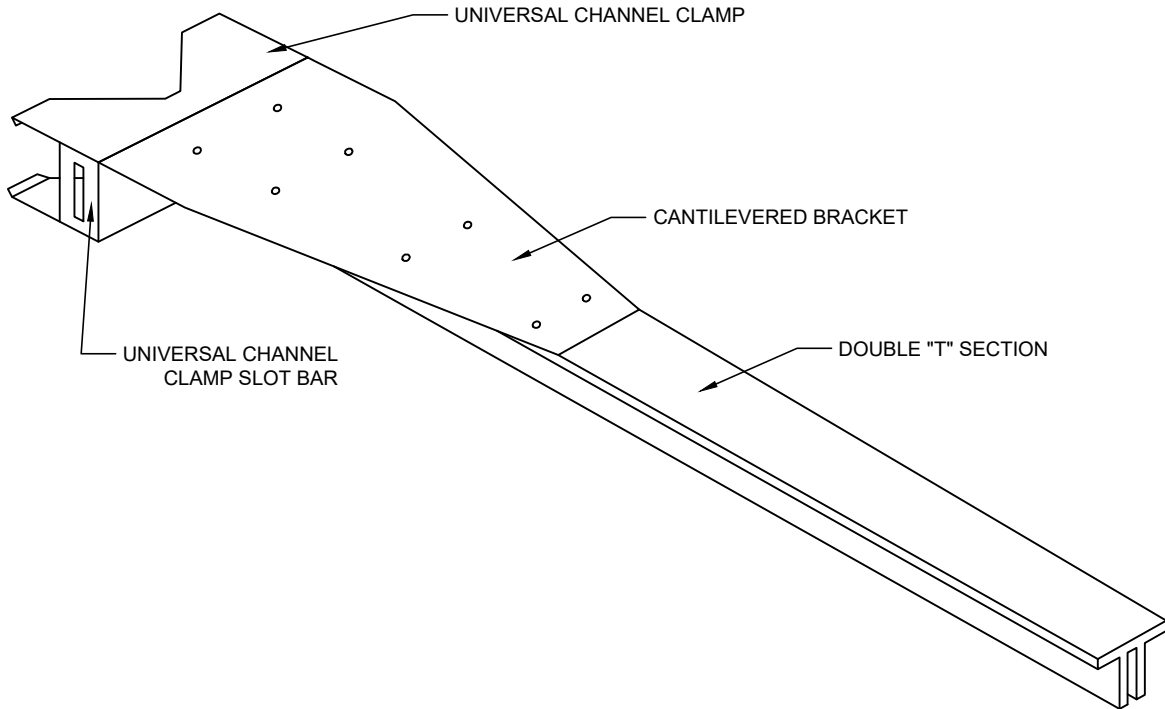
3/30/2018

SHT 5 OF 9



ADDITIONAL CANTILEVERED BRACKET *

* USED WHEN SIGN AREA EXCEEDS SIX (6) SQUARE FEET. PLACE TWO (2) BRACKETS BACK TO BACK ON TOP AND BOTTOM OF SIGN BLADE.



MOUNTING HARDWARE

FASTEN TO SUPPORT WITH PRE-ASSEMBLED BUCKLE-STRAP COMBINATION ASSEMBLY.

THE CANTILEVER BRACKET SHALL BE BANDED TO THE SUPPORT USING TYPE 201 STAINLESS STEEL WITH A MINIMUM THICKNESS OF 0.036" AND 3/4" WIDTH.

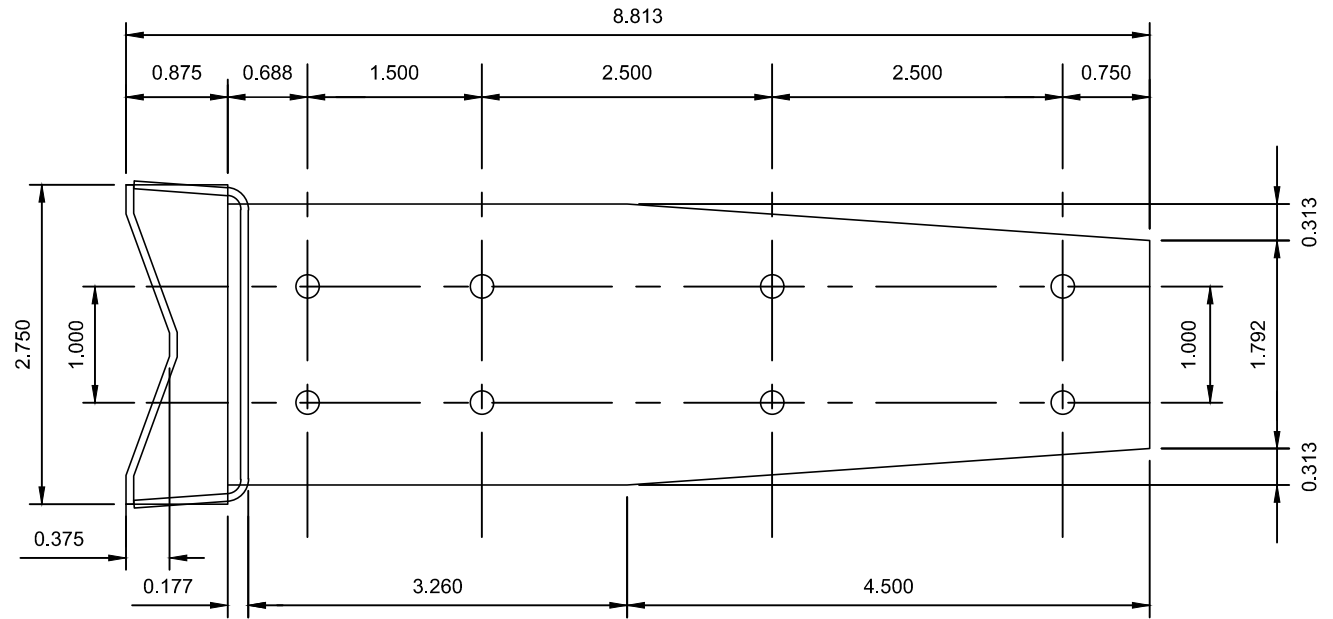
STREET NAME SIGN

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

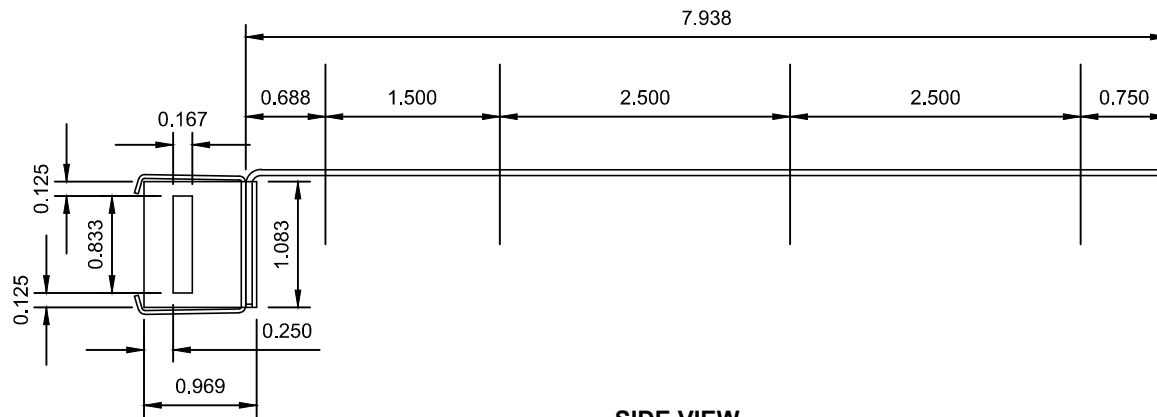
STD DWG
2185

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SHT 6 OF 9



TOP VIEW



SIDE VIEW

MOUNTING HARDWARE CANTILEVER BRACKET

STREET NAME SIGN

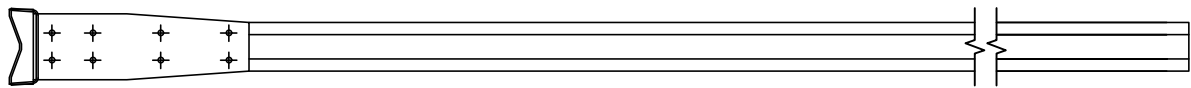
CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

STD DWG

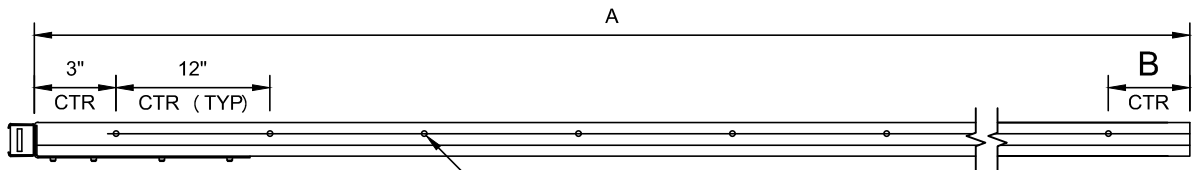
2185

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SHT 7 OF 9



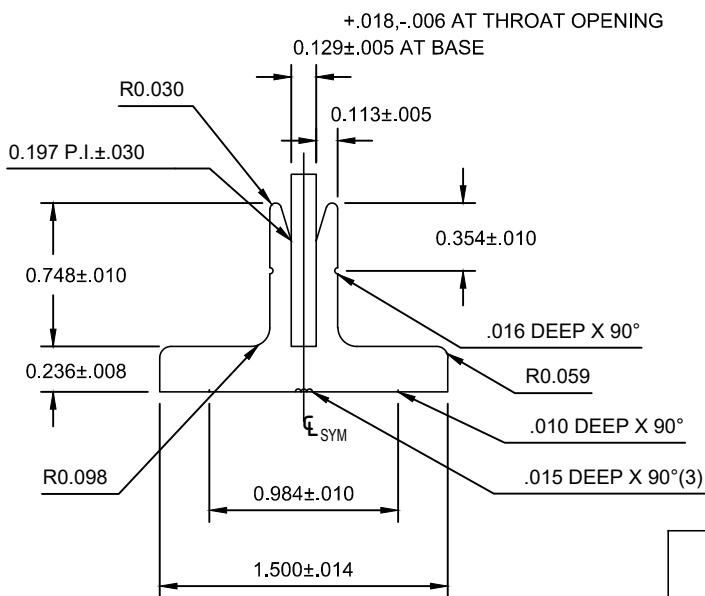
PLAN



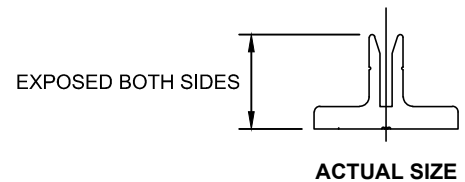
N HOLES, 13/64" DIA FOR 3/16" RIVET

ELEVATION

A (inches)	B (inches)	N (number of holes)
42	3	4
48	1	4
54	3	5



SECTION



MOUNTING HARDWARE
DOUBLE TEE, TYPE II

STREET NAME SIGN

USE TYPE II TEE FOR 9" AND 12" BLADES THAT ARE 42", 48" AND 54" LONG.

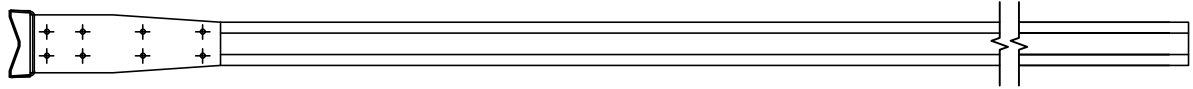
USE TYPE I TEE FOR 9" AND 12" BLADES THAT ARE LESS THAN 42" LONG.

CITY OF COLUMBUS, OHIO
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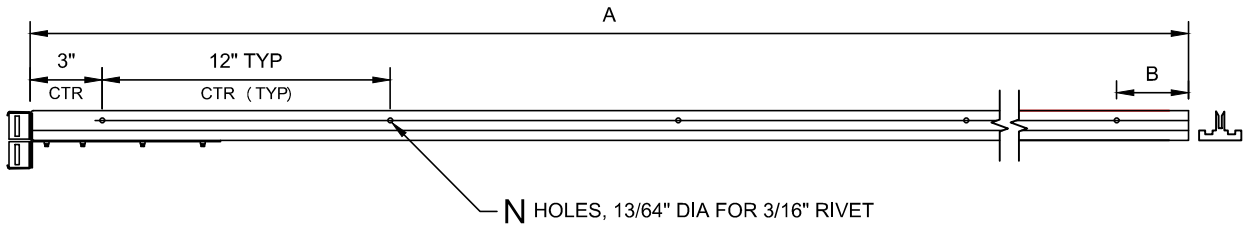
STD DWG
2185

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SHT 8 OF 9

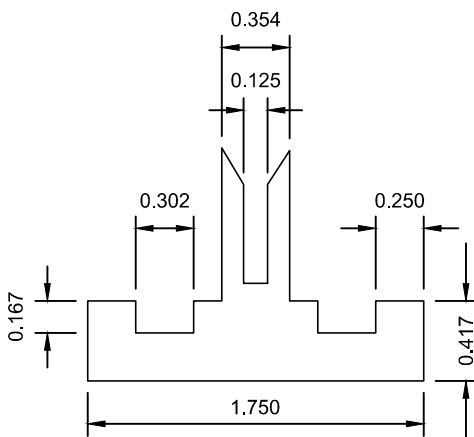


PLAN



ELEVATION

A (inches)	B (inches)	N (number of holes)
42	3	4
48	1	4
54	3	5
60	1	6
72	1	7



SECTION

USE TYPE III TEES FOR 9" AND 12" BLADES THAT ARE 60", 66" & 72" LONG AND ALL 18" BLADES WITH BACK TO BACK CANTILEVER BRACKETS.

MOUNTING HARDWARE DOUBLE TEE, TYPE III

STREET NAME SIGN

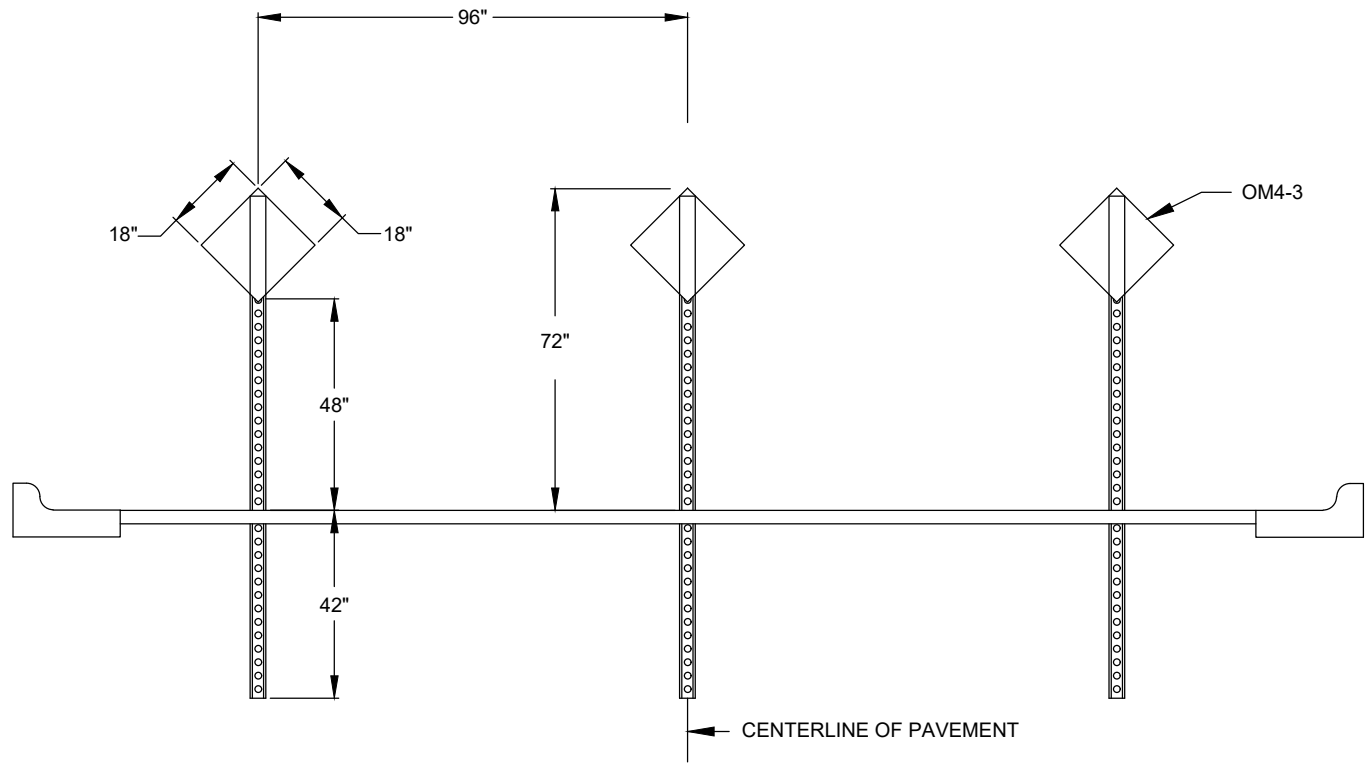
CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

STD DWG

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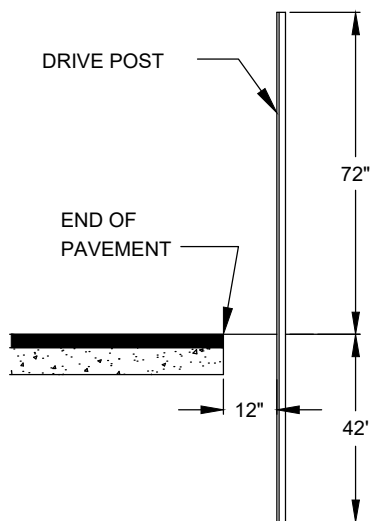
SHT 9 OF 9



NUMBER OF ASSEMBLIES TO BE INSTALLED:

PAVEMENTS 24' OR LESS IN WIDTH = 2
 PAVEMENTS 25'-32' IN WIDTH = 3
 PAVEMENTS 33'-40' IN WIDTH = 4
 PAVEMENTS 41'-48' IN WIDTH = 5
 PAVEMENTS 49'-56' IN WIDTH = 6
 PAVEMENTS 57'-64' IN WIDTH = 7

THE OM4-3 IS A 18"X18" .080 GAUGE ALUMINUM PANEL COVERED WITH RED REFLECTIVE SHEETING.



REFERENCE SUPPLEMENTAL SPECIFICATION 1630.

BARRICADE FOR END OF ROADWAY PAVEMENT

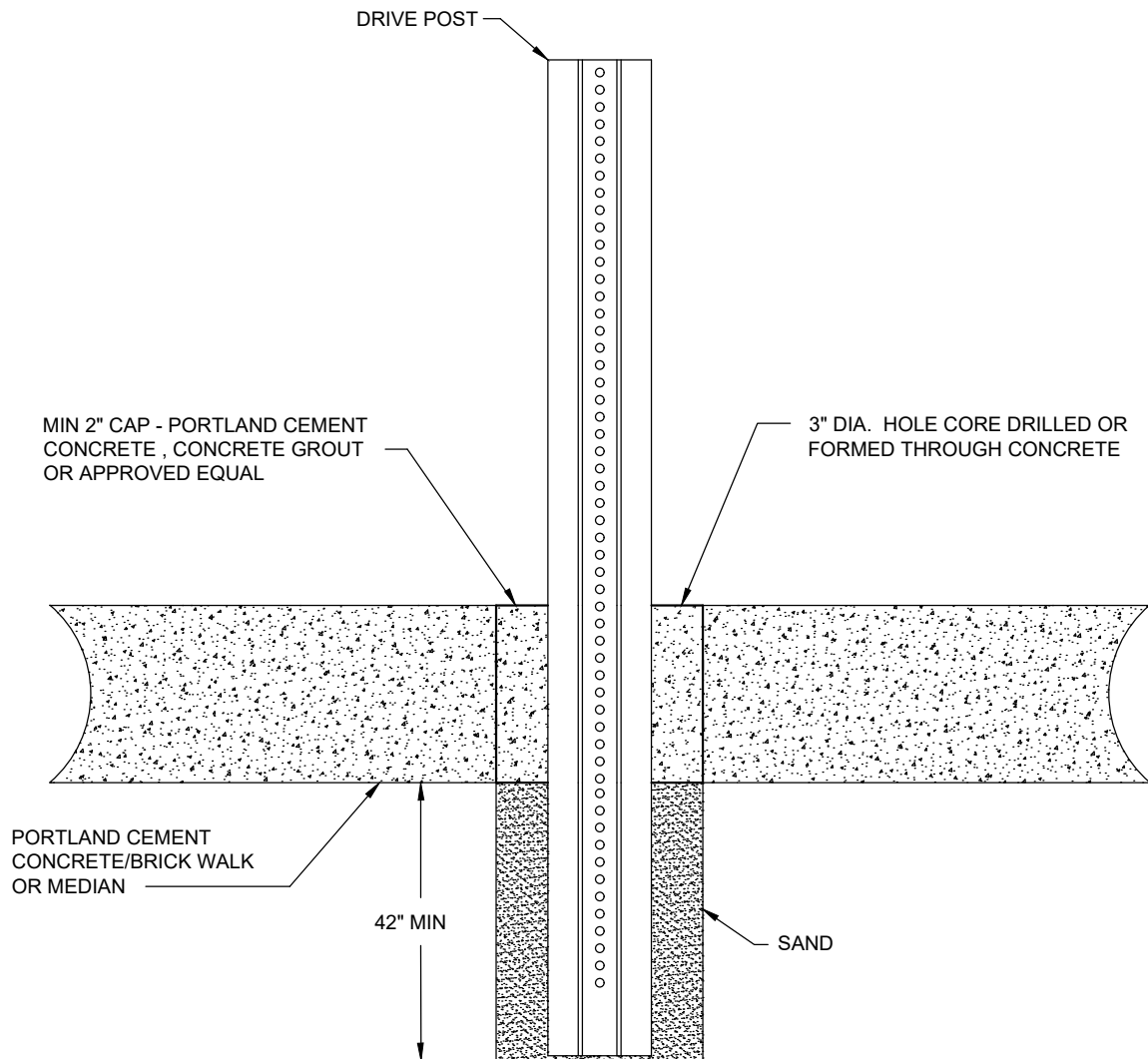
CITY OF COLUMBUS, OHIO
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 DIVISION OF DESIGN AND CONSTRUCTION

CITY ENGINEER

STD DWG
 2190

3/30/2018

SHT 1 OF 1



NOTES: MAINTAIN STANDARD INSTALLATION
DEPTH OF DRIVE POST.

REFERENCE SUPPLEMENTAL SPECIFICATION 1630.

DRIVE POST INSTALLATION THROUGH CONCRETE / BRICK

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2191

CITY ENGINEER

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SHT 1 OF 1

18" WIDE HIGH INTENSITY
WRAP-AROUND REFLECTIVE SHEETING
PLACED 2 INCHES FROM THE TOP OF
POST
RED - NO OUTLET
YELLOW - OTHER

TREATED 4" X 4" (NOMINAL SIZE)
WOOD POST

$\frac{3}{4}$ " DEEP SAW CUT
ALONG ALL FOUR SIDES

6"

2"

EARTH

1 $\frac{1}{2}$ " GALVANIZED
STEEL LAG BOLTS
(2 REQ.)

STEEL TUBING
4" X 4" X $\frac{3}{16}$ "
(PAINT WITH RUST
INHIBITOR)

4'-0" MINIMUM

5'-8"

3'-0"

TYPE - A
FOR USE IN AREAS OPEN
TO PEDESTRIAN TRAFFIC

BREAK-AWAY BOLLARD

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

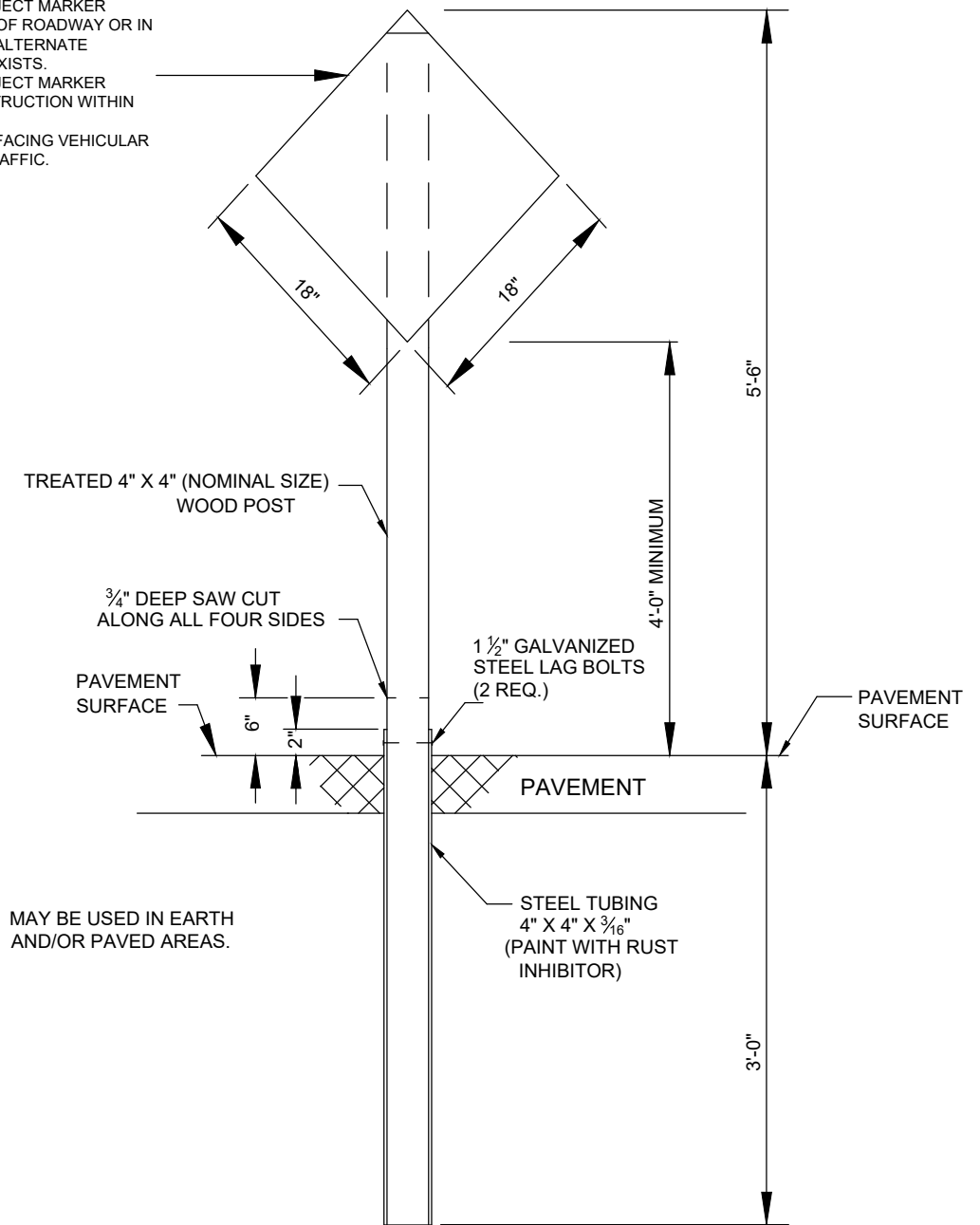
CITY ENGINEER

STD DWG
2195

3/30/2018

SHT 1 OF 2

INSTALL TYPE 4 OBJECT MARKER
OM4-3-18 FOR END OF ROADWAY OR IN
AREAS WHERE NO ALTERNATE
VEHICULAR PATH EXISTS.
INSTALL TYPE 1 OBJECT MARKER
OM3-1-18 FOR OBSTRUCTION WITHIN
THE ROADWAY.
INSTALL ONE SIGN FACING VEHICULAR
OR PEDESTRIAN TRAFFIC.



TYPE - B
FOR USE IN LIMITED ACCESS AREAS

BREAK-AWAY BOLLARD

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DIVISION OF DESIGN AND CONSTRUCTION

STD DWG

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SHT 2 OF 2

FOR USE ON A PARCEL WITH A SINGLE DWELLING

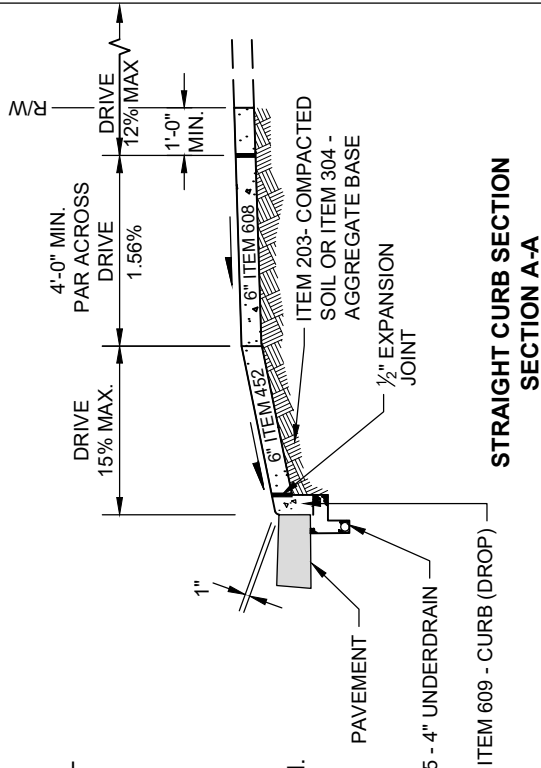
* CURB OR COMBINED CURB AND GUTTER SHALL BE TAKEN OUT AND REPLACED WITH CONCRETE, SEPARATED FROM THE DRIVE BY 1/2" PREMOLED EXPANSION JOINT. WHEN LESS THAN 5 FT. OF A CURB SECTION REMAINS AFTER THE CURB CUT IS LOCATED, IT SHALL ALSO BE REMOVED AND REPLACED. CURB SHALL BE CONSTRUCTED IN MINIMUM 5 FT. SECTIONS AND MAXIMUM 10 FT. SECTIONS.

** SIDEWALK WIDTH SHALL BE PER STANDARD DRAWING 2300. SIDEWALK THICKNESS SHALL BE 6" CONCRETE TO ONE FULL PANEL (MIN. 5 FT.) BEYOND THE EDGE OF THE FULL WIDTH SECTION OF THE DRIVE.

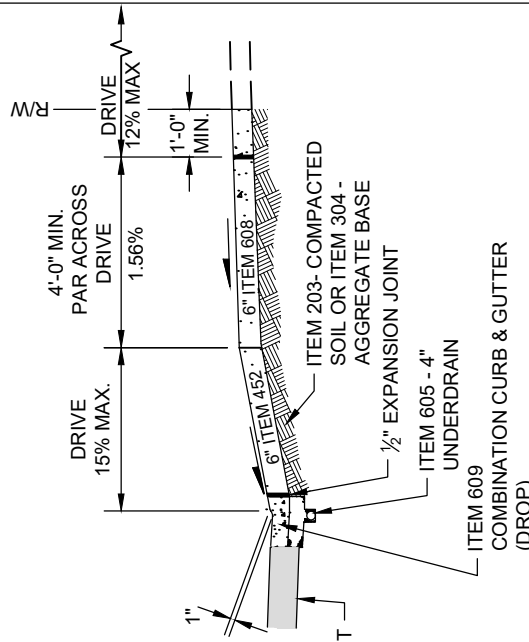
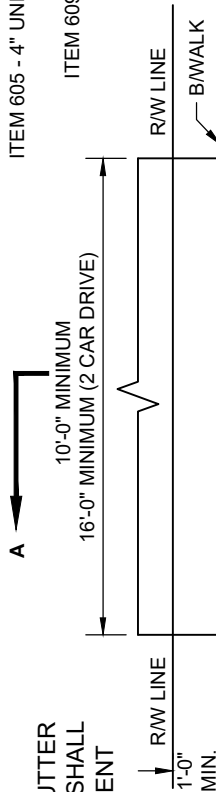
*** 5 FT. ON ROADWAYS WITH 35 MPH SPEED LIMIT, 2 FT. FOR SPEED LIMITS LESS THAN 35 MPH.

PAR = PEDESTRIAN ACCESS ROUTE. SET PAR THROUGH APPROACH AT SIDEWALK GRADE TO AVOID RAMP OR TRANSITION. IF NOT POSSIBLE, THEN MINIMIZE TRANSITION FROM SIDEWALK TO APPROACH.

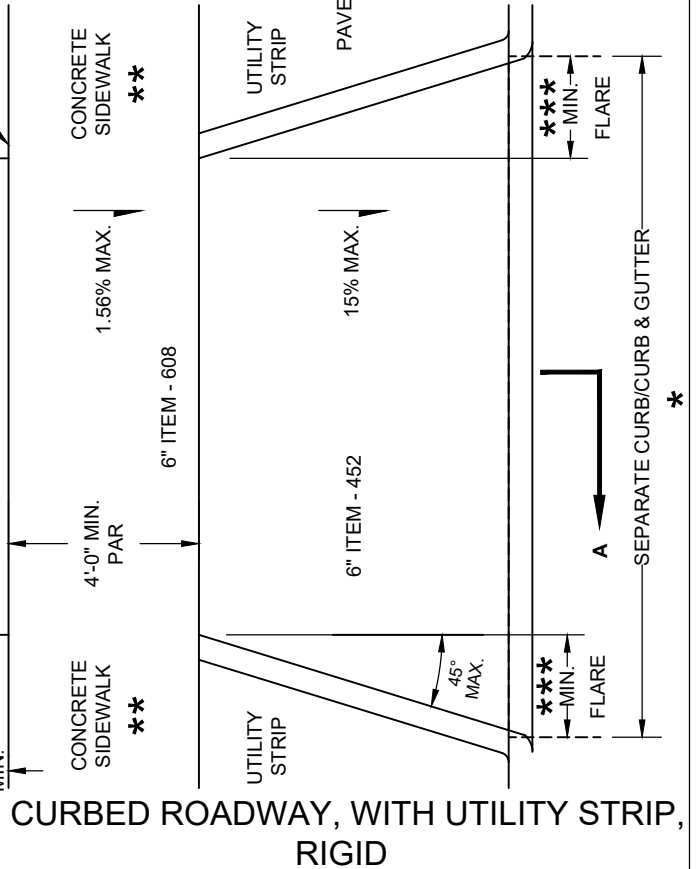
WHEN A CURB OR CURB AND GUTTER ARE PRESENT ALL DRIVEWAYS SHALL BE ITEM 452 CONCRETE PAVEMENT



STRAIGHT CURB SECTION
SECTION A-A



COMBINATION CURB AND GUTTER SECTION
SECTION A-A



DRIVEWAY, RESIDENTIAL

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

CITY ENGINEER

STD DWG
2201

12/31/18

SHT 1 OF 6

16'-0" MINIMUM (2 CAR DRIVE)

R/W LINE

1'-0" MIN.

7.69% MAX.

1.56% MAX.

4'-0" MIN. PAR

6" ITEM - 452

15% MAX.

10% ALONG THE FACE OF THE CURB

10% ALONG THE FACE OF THE CURB

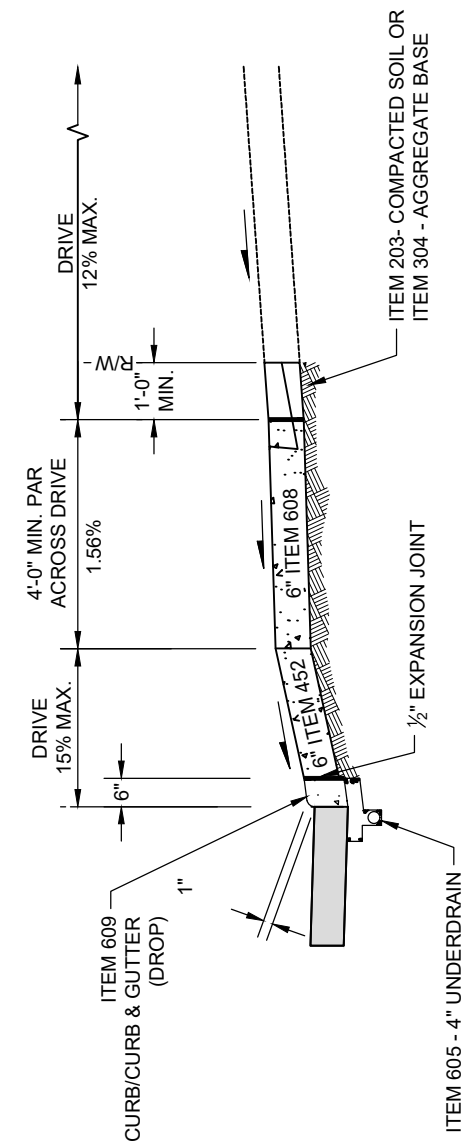
6"

SIDEWALK WIDTH PER STANDARD PER STANDARD DRAWING 2300

B/WALK

A

A



DRIVEWAY, RESIDENTIAL

SECTION A-A
SEE SHEET 1 OF 6 FOR NOTES

STD DWG
2201
12/03/18
SHT 2 OF 6



SHT 4 OF 6

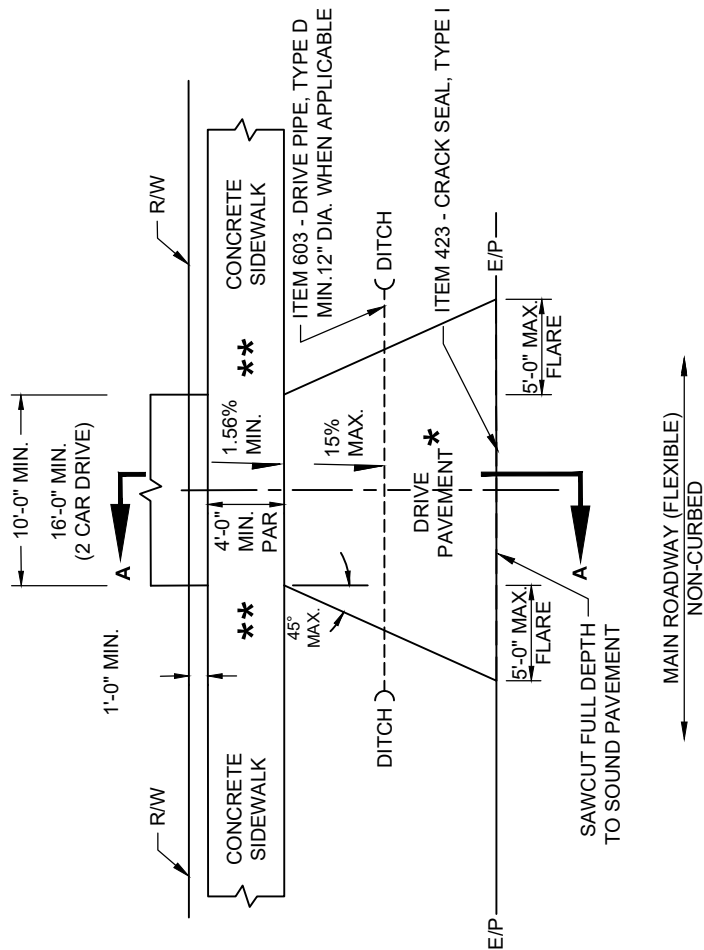
* REPLACEMENT OF EXISTING DRIVES SHALL MATCH PAVEMENT (TYPE, DESIGN) IN KIND TO EXISTING DRIVE. NEW DRIVES SHALL BE PAVEMENT (TYPE, DESIGN) SIMILAR TO MAIN ROADWAY (TYPE, DESIGN).

ITEM 441 - 1.5" ASPHALT CONCRETE, SURFACE COURSE, (TYPE 1),
PG 64-22

ITEM 441 - 2.5" ASPHALT CONCRETE, INTERMEDIATE COURSE,
(TYPE 2).448

****** SIDEWALK SHALL BE PER STANDARD DRAWING 2300. SIDEWALK THICKNESS SHALL BE 6" CONCRETE TO ONE FULL PANEL (MIN. 5 FT.) BEYOND THE EDGE OF THE FULL WIDTH SECTION OF THE DRIVE.

PAR = PEDESTRIAN ACCESS ROUTE. SET PAR THROUGH APPROACH AT SIDEWALK GRADE TO AVOID RAMP OR TRANSITION. IF NOT POSSIBLE, THEN MINIMIZE TRANSITION FROM SIDEWALK TO APPROACH.



WHEN CONDITIONS EXIST USE THE FOLLOWING;
IF THE DISTANCE FROM THE SIDEWALK TO THE EDGE OF PAVEMENT IS:

>5' ----- HOLD THE FLARE TO 45* AND
ADJUST THE WIDTH
ACCORDINGLY. MAINTAIN THE
MINIMUM 2' WIDE
PERPENDICULAR AREA OF
THE APPROACH

5'-7' --- MAINTAIN THE 5' MAXIMUM
FLARE WIDTH, VARY THE
ANGLE, AND MAINTAIN THE
MINIMUM 2' WIDE
PERPENDICULAR AREA OF
THE APPROACH

>7' ----- DECREASE THE 45° ANGLE
(ADJUST ACCORDINGLY),
MAINTAIN THE MINIMUM 2'
WIDE PERPENDICULAR AREA
OF THE APPROACH

NON-CURBED ROADWAY,
DRIVE PAVEMENT FLEXIBLE

DRIVEWAY, RESIDENTIAL

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

STD DWG
2201

12/31/18

SHT 5 OF 6

FOR USE ON A PARCEL WITH A SINGLE DWELLING

*** DRIVE PAVEMENT (TYPE, RIGID)**
ITEM 452 - 6" NON-REINFORCED PORTLAND CEMENT CONCRETE

**** SIDEWALK SHALL BE PER STANDARD DRAWING 2300. SIDEWALK THICKNESS SHALL BE 6" CONCRETE TO ONE FULL PANEL (MIN. 5 FT.) BEYOND THE EDGE OF THE FULL WIDTH SECTION OF THE DRIVE.**

PAR = PEDESTRIAN ACCESS ROUTE. SET PAR THROUGH APPROACH AT SIDEWALK GRADE TO AVOID RAMP OR TRANSITION. IF NOT POSSIBLE, THEN MINIMIZE TRANSITION FROM SIDEWALK TO APPROACH.

WHEN CONDITIONS EXIST USE THE FOLLOWING;

IF THE DISTANCE FROM THE SIDEWALK TO THE EDGE OF PAVEMENT IS:

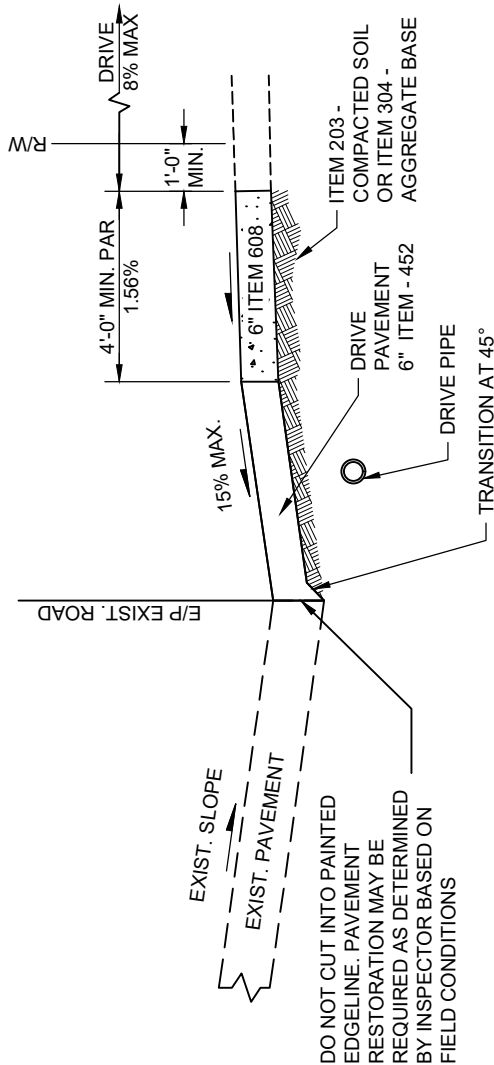
>5' ----- HOLD THE FLARE TO 45° AND ADJUST THE WIDTH ACCORDINGLY, MAINTAIN THE

MINIMUM 2' WIDE PERPENDICULAR AREA OF THE APPROACH

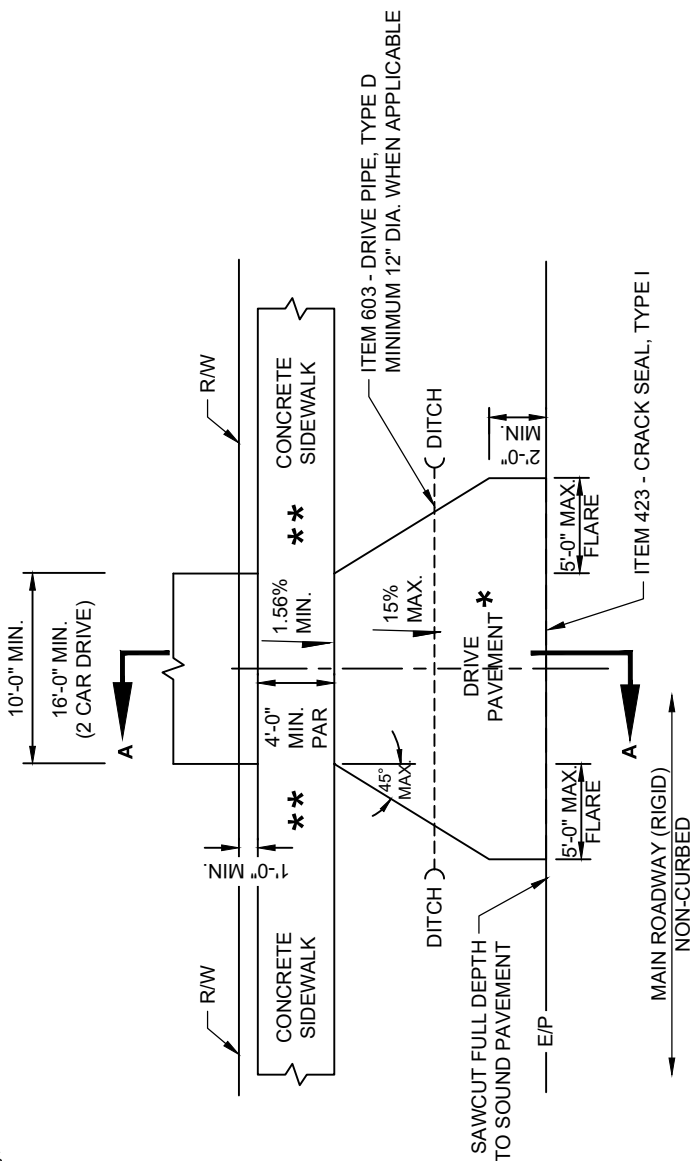
5'-7' ----- MAINTAIN THE 5' MAXIMUM FLARE WIDTH, VARY THE ANGLE, AND MAINTAIN THE

MINIMUM 2' WIDE PERPENDICULAR AREA OF THE APPROACH

>7' ----- DECREASE THE 45° ANGLE (ADJUST ACCORDINGLY), MAINTAIN THE MINIMUM 2' WIDE PERPENDICULAR AREA OF THE APPROACH



SECTION A-A



NON-CURBED ROADWAY
DRIVE PAVEMENT, RIGID

DRIVEWAY, RESIDENTIAL

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

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SHT 6 OF 6

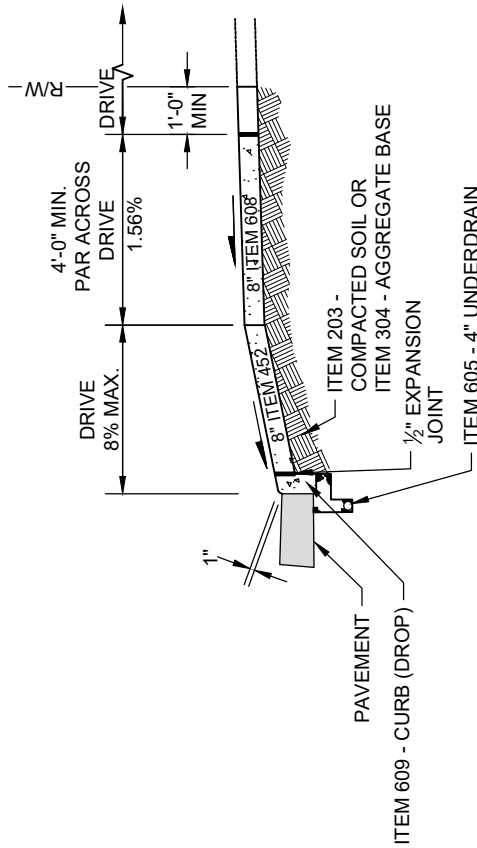
THIS STANDARD DRAWING IS FOR DRIVES ON LOCAL OR COLLECTOR STREETS WITH SPEEDS ≤ 35 MPH, UNLESS APPROVED OTHERWISE BY DEPARTMENT OF PUBLIC SERVICE.

* CURB OR COMBINED CURB AND GUTTER SHALL BE TAKEN OUT AND REPLACED WITH CONCRETE, SEPARATED FROM THE DRIVE BY 1/2" PREMOLDED EXPANSION JOINT. WHEN LESS THAN 5 FT. OF A CURB SECTION REMAINS AFTER THE CURB CUT IS LOCATED, IT SHALL ALSO BE REMOVED AND REPLACED. CURB SHALL BE CONSTRUCTED IN MINIMUM 5 FT. SECTIONS AND MAXIMUM 10 FT. SECTIONS.

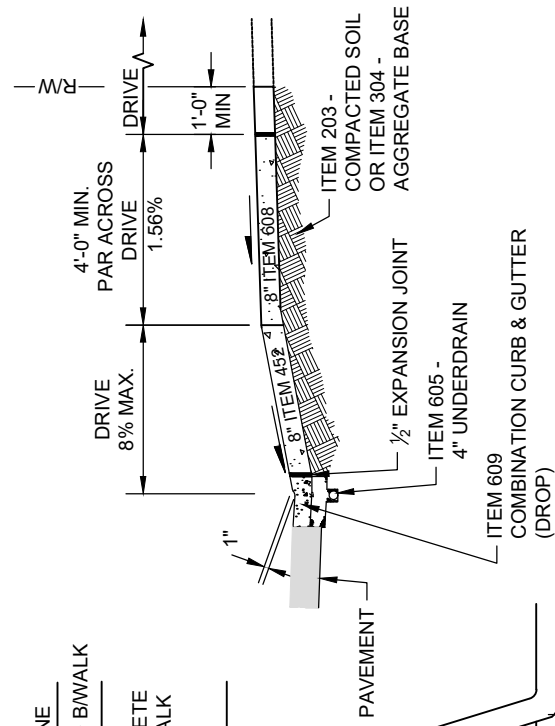
** SIDEWALK WIDTH SHALL BE PER STANDARD DRAWING 2300. SIDEWALK THICKNESS SHALL BE 8" CONCRETE TO ONE FULL PANEL (MIN. 5 FT.) BEYOND THE EDGE OF THE FULL WIDTH SECTION OF THE DRIVE.

PAR = PEDESTRIAN ACCESS ROUTE. SET PAR THROUGH APPROACH AT SIDEWALK GRADE TO AVOID RAMP OR TRANSITION. IF NOT POSSIBLE, THEN MINIMIZE TRANSITION FROM SIDEWALK TO APPROACH.

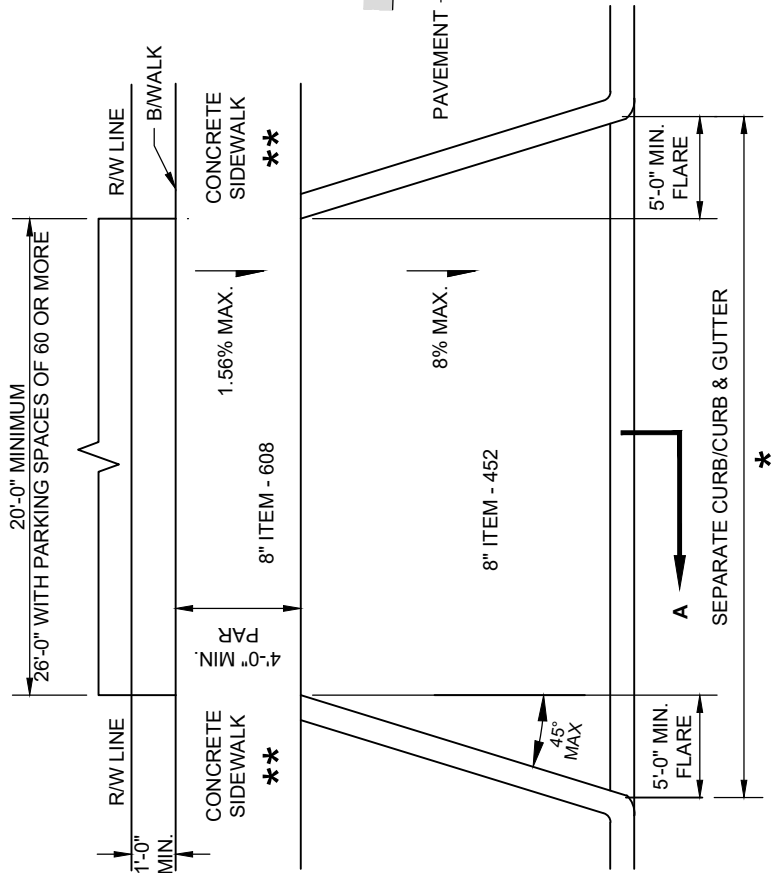
WHEN CURB OR CURB OR CURB AND GUTTER ARE PRESENT ALL DRIVEWAYS SHALL BE ITEM 452 CONCRETE PAVEMENT



STRAIGHT CURB SECTION
SECTION A-A



COMBINATION CURB AND GUTTER SECTION
SECTION A-A



CURBED ROADWAY WITH FLARES, TYPE A

DRIVEWAY, NON-RESIDENTIAL

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

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CITY ENGINEER

SHT 1 OF 14

CURB AND GUTTER
 DRIVEWAYS
 CONCRETE

20'-0" MINIMUM
 26'-0" WITH PARKING SPACES OF 60 OR MORE

R/W LINE
 B/WALK
 R/W LINE

1'-0" MIN.
 4'-0" MIN. PAR.
 8" ITEM - 452
 4'-0" MIN. PAR.

1.56% MAX.
 7.69% MAX.
 1.56% MAX.
 7.69% MAX.
 8% MAX.

SIDEWALK WIDTH
 PER STANDARD
 DRAWING 2300

6"

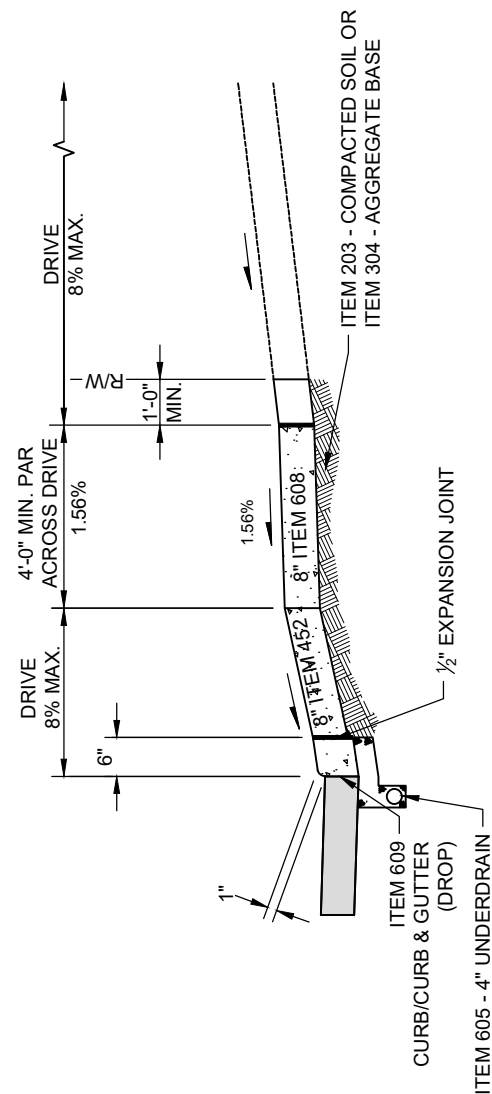
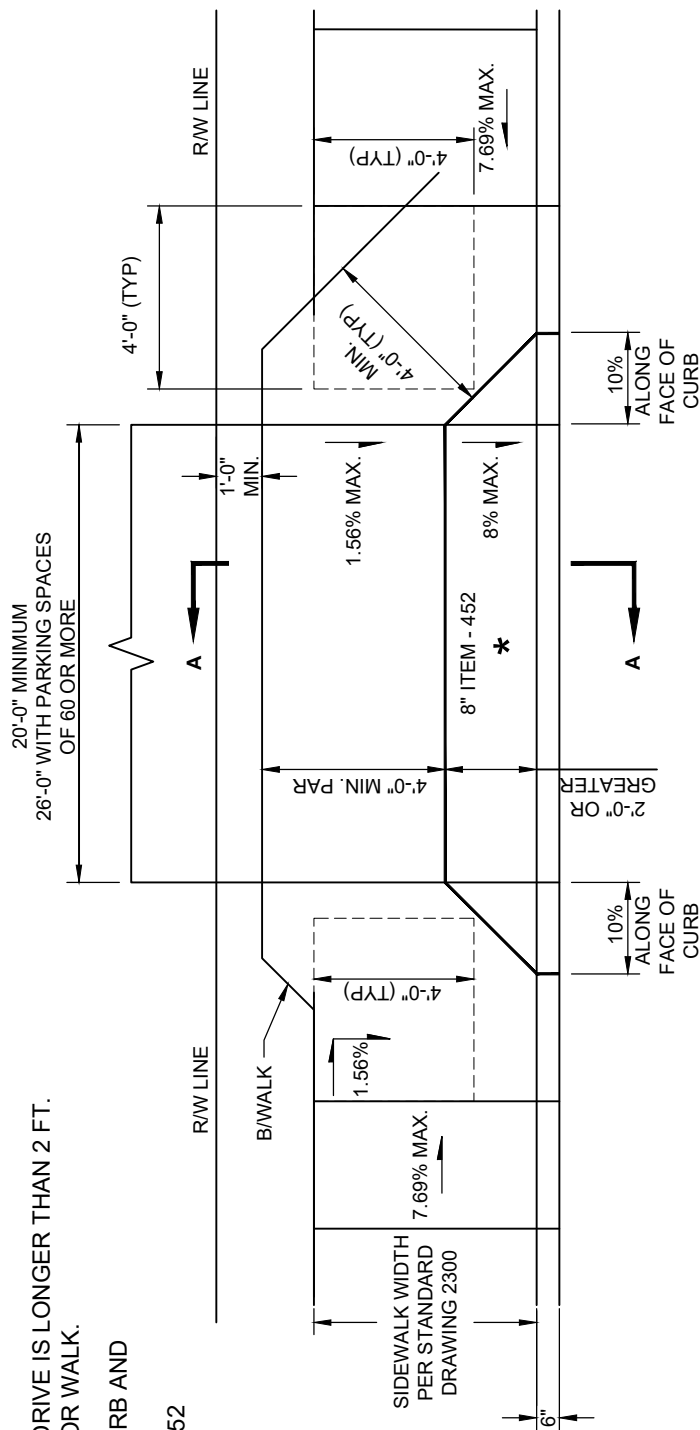
4'-0" FLARE



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DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

SHT 2 OF 14

WHEN CURB OR CURB OR CURB AND
GUTTER ARE PRESENT ALL
DRIVEWAYS SHALL BE ITEM 452
CONCRETE PAVEMENT



CURBED ROADWAY WITH FLARES, TYPE C

DRIVEWAY, NON-RESIDENTIAL

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

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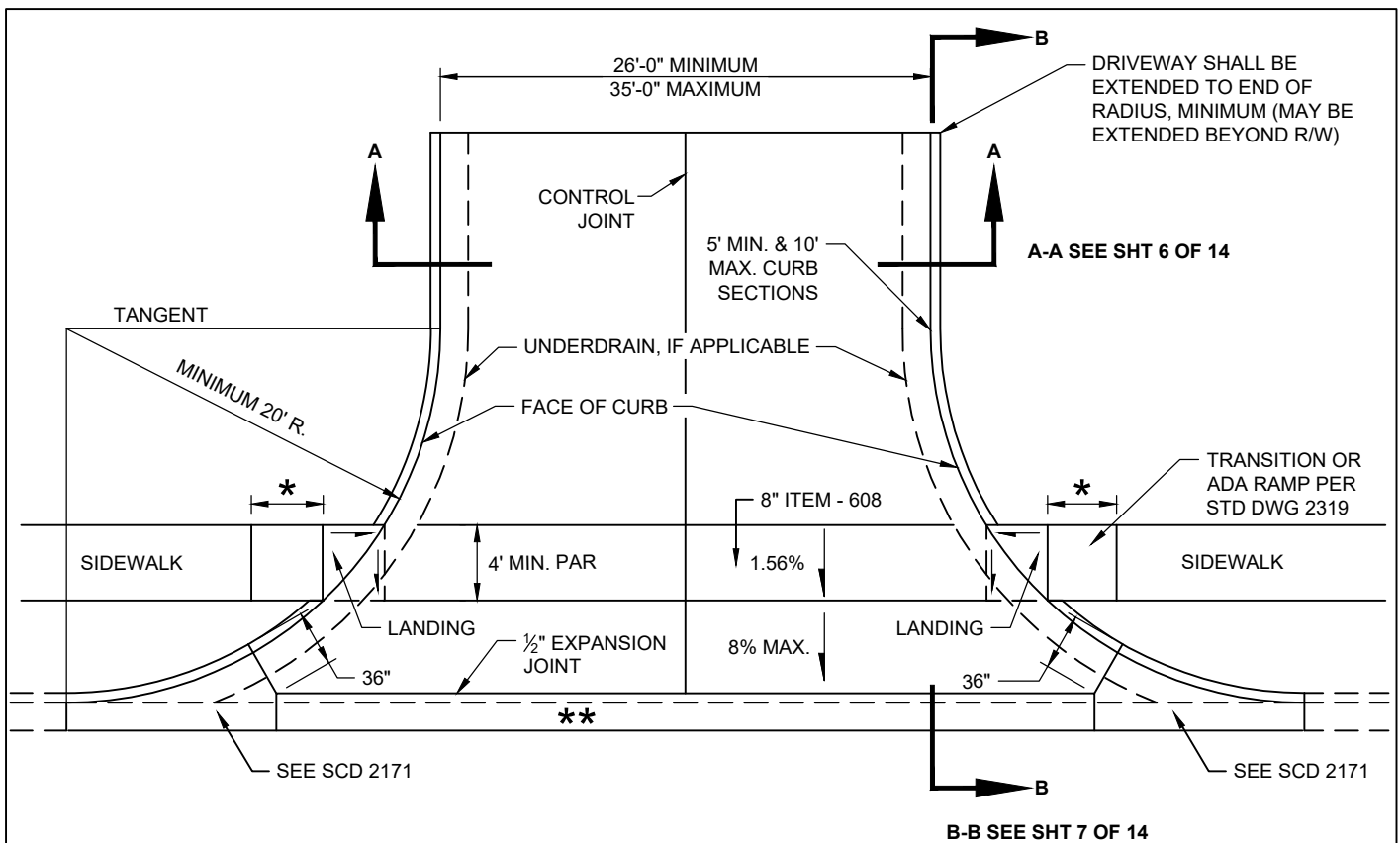
SHT 3 OF 14

SECTION A-A
SEE SHEET 1 OF 14 FOR NOTES

[illegible]

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

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* 8" CONCRETE SIDEWALK FOR 1 FULL PANEL (MIN. 5 FT.) BEYOND EDGE OF DRIVE.

** MAINTAIN 4" PIPE UNDERDRAIN. CURB OR COMBINED CURB AND GUTTER SHALL BE TAKEN OUT AND REPLACED WITH CONCRETE, SEPARATED FROM THE DRIVE BY 1/2" PREMOLDED EXPANSION JOINT. WHEN LESS THAN 5 FT. OF A CURB SECTION REMAINS AFTER THE CURB CUT IS LOCATED, IT SHALL ALSO BE REMOVED AND REPLACED. CURB/GUTTER SHALL BE CONSTRUCTED IN MINIMUM 5 FT. SECTIONS AND MAXIMUM 10 FT. SECTIONS.

PAR = PEDESTRIAN ACCESS ROUTE. SET PAR THROUGH APPROACH AT SIDEWALK GRADE TO AVOID RAMP OR TRANSITION. IF NOT POSSIBLE, THEN MINIMIZE TRANSITION FROM SIDEWALK TO APPROACH.

NO DOWELS REQUIRED ON DRIVES.

WHEN A CURB OR CURB AND GUTTER ARE PRESENT ALL DRIVEWAYS SHALL BE ITEM 452 CONCRETE PAVEMENT

CURBED ROADWAY WITH RADIUS

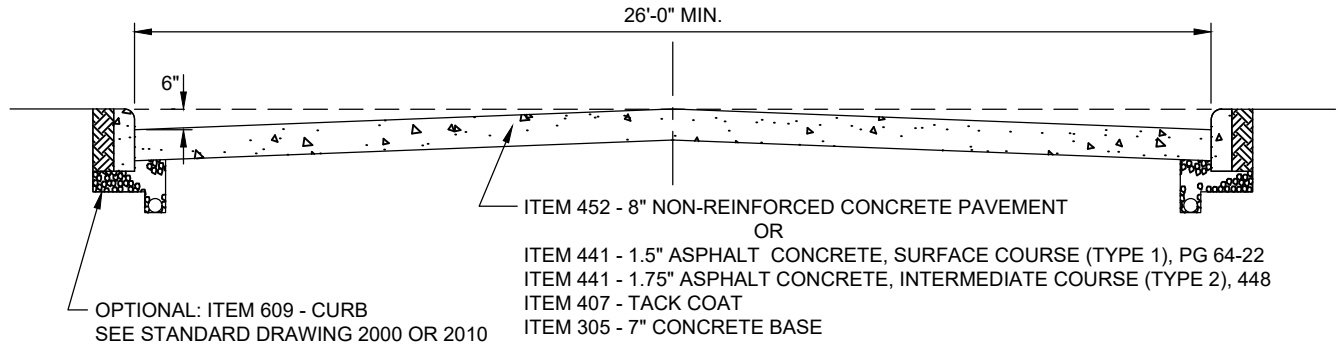
DRIVEWAY, NON-RESIDENTIAL

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

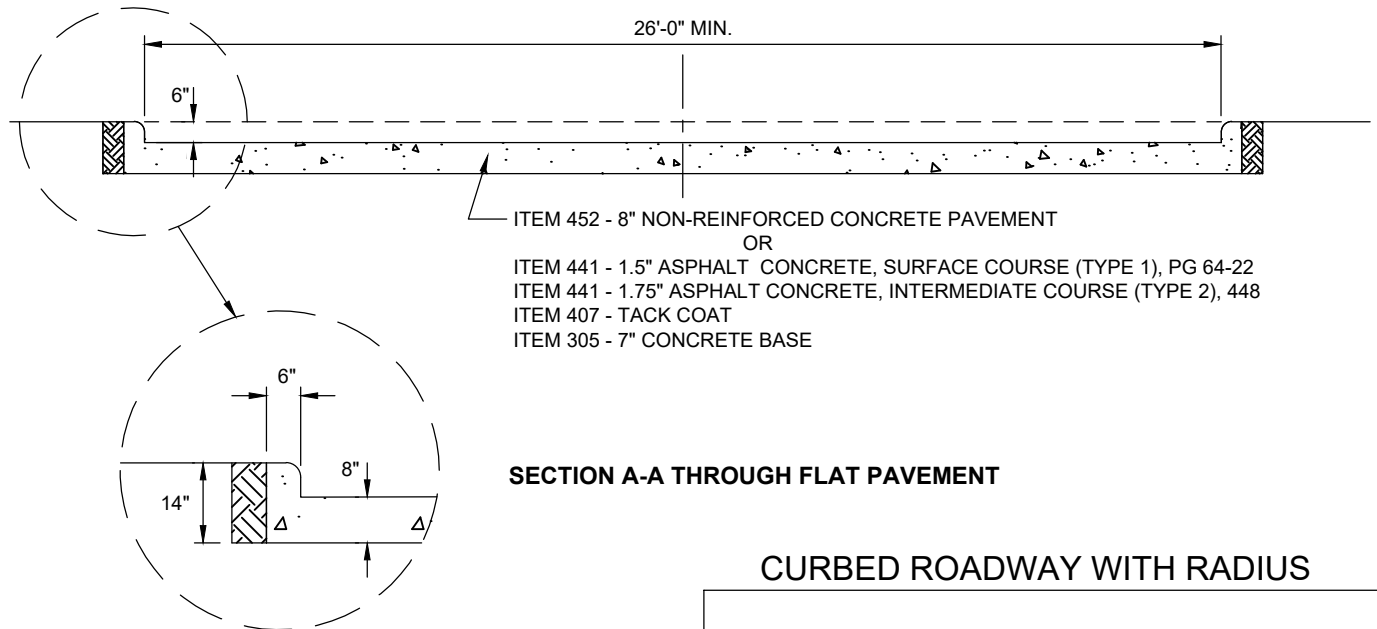
STD DWG
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SECTION A-A THROUGH CROWNED PAVEMENT



SECTION A-A THROUGH FLAT PAVEMENT

CURBED ROADWAY WITH RADIUS

DRIVEWAY, NON-RESIDENTIAL

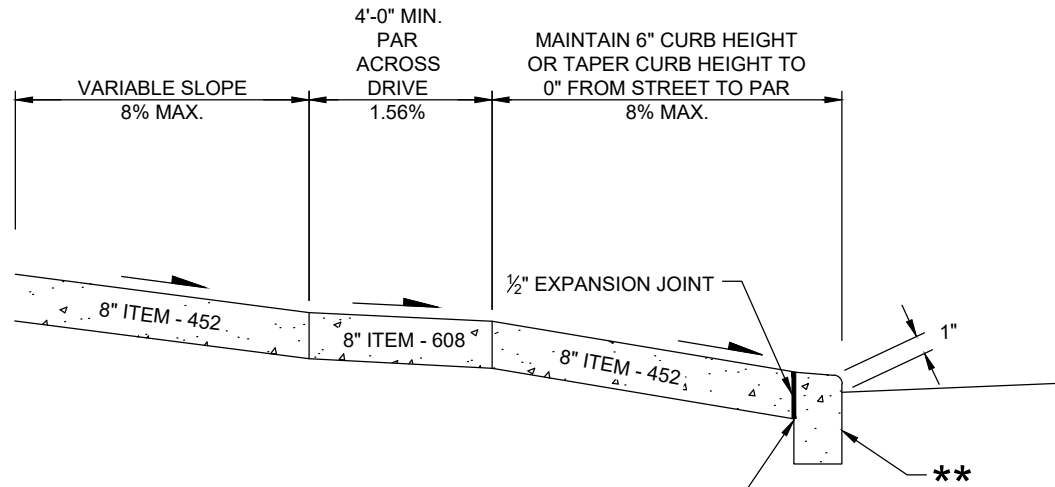
CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

STD DWG

2202

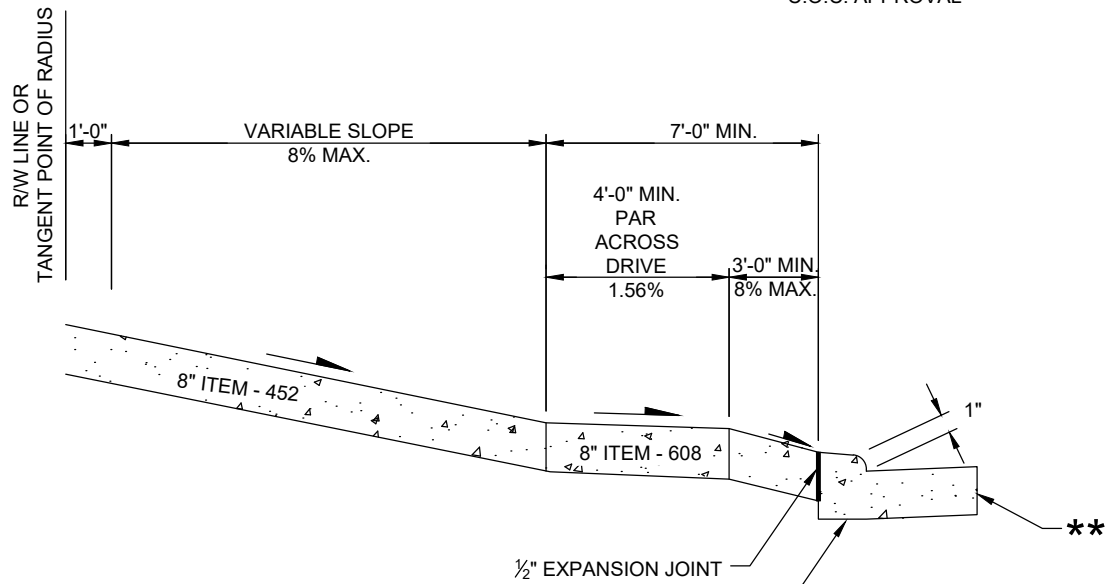
12/31/18

SHT 6 OF 14



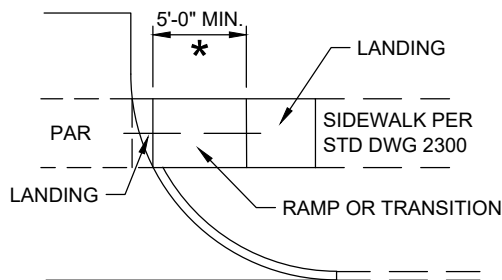
SECTION B-B WITH STRAIGHT CURB

ITEM 609 - CURB (DROP)
CONC. APPROACH MAY BE POURED
INTEGRAL WITH CURB WITH PRIOR
C.O.C. APPROVAL



**SECTION B-B WITH
CURB AND GUTTER**

ITEM 609 - CURB & GUTTER (DROP)



PAR = PEDESTRIAN ACCESS ROUTE. SET PAR
THROUGH APPROACH AT SIDEWALK GRADE TO
AVOID RAMP OR TRANSITION. IF NOT POSSIBLE,
THEN MINIMIZE TRANSITION FROM SIDEWALK TO
APPROACH.

* 8" ITEM - 608

** STRAIGHT CURB OR CONCRETE CURB & GUTTER.

CURBED ROADWAY WITH RADIUS

DRIVEWAY, NON-RESIDENTIAL

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

STD DWG

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FOR USE ON A NON-RESIDENTIAL PARCEL

DRIVE PAVEMENT (TYPE, RIGID)
ITEM 452 - 8" NON-REINFORCED PORTLAND
CEMENT CONCRETE

SIDEWALK SHALL BE PER STANDARD DRAWING 2300.
SIDEWALK THICKNESS SHALL BE 8" CONCRETE TO ONE FULL
PANEL (MIN. 5 FT.) BEYOND THE EDGE OF THE FULL WIDTH
SECTION OF THE DRIVE.

* PAR = PEDESTRIAN ACCESS ROUTE. SET PAR THROUGH
APPROACH AT SIDEWALK GRADE TO AVOID RAMP OR
TRANSITION. IF NOT POSSIBLE, THEN MINIMIZE TRANSITION
FROM SIDEWALK TO APPROACH.

WHEN CONDITIONS EXIST USE
THE FOLLOWING;
IF THE DISTANCE FROM THE
SIDEWALK TO THE EDGE OF
PAVEMENT IS:

- >5' ----- HOLD THE FLARE TO 45° AND
ADJUST THE WIDTH
ACCORDINGLY, MAINTAIN THE
MINIMUM 2' WIDE
PERPENDICULAR AREA OF
THE APPROACH
- 5'-7' --- MAINTAIN THE 5' MAXIMUM
FLARE WIDTH, VARY THE
ANGLE, AND MAINTAIN THE
MINIMUM 2' WIDE
PERPENDICULAR AREA OF
THE APPROACH
- >7' ----- DECREASE THE 45° ANGLE
(ADJUST ACCORDINGLY).
MAINTAIN THE MINIMUM 2'
WIDE PERPENDICULAR AREA
OF THE APPROACH

NON-CURBED ROADWAY WITH FLARES DRIVE PAVEMENT, RIGID

DRIVEWAY, NON- RESIDENTIAL

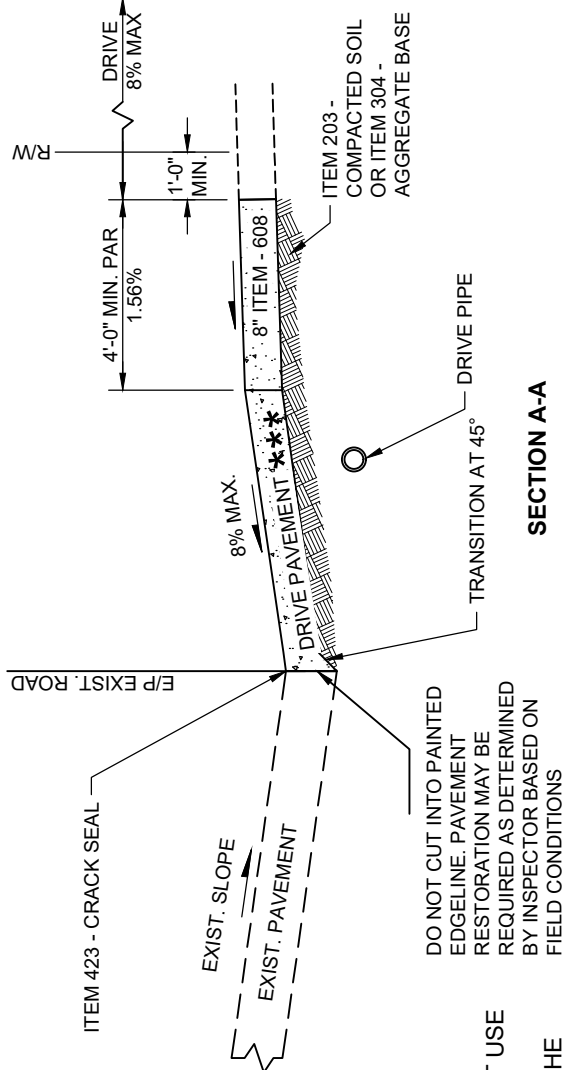
CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

STD DWG

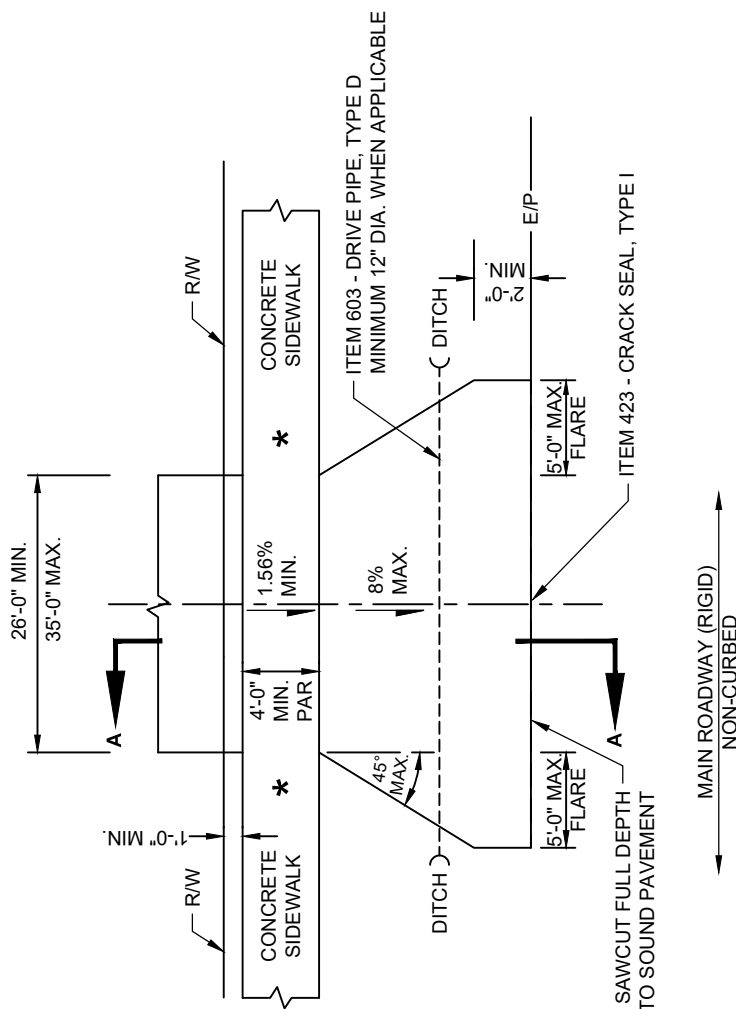
2202

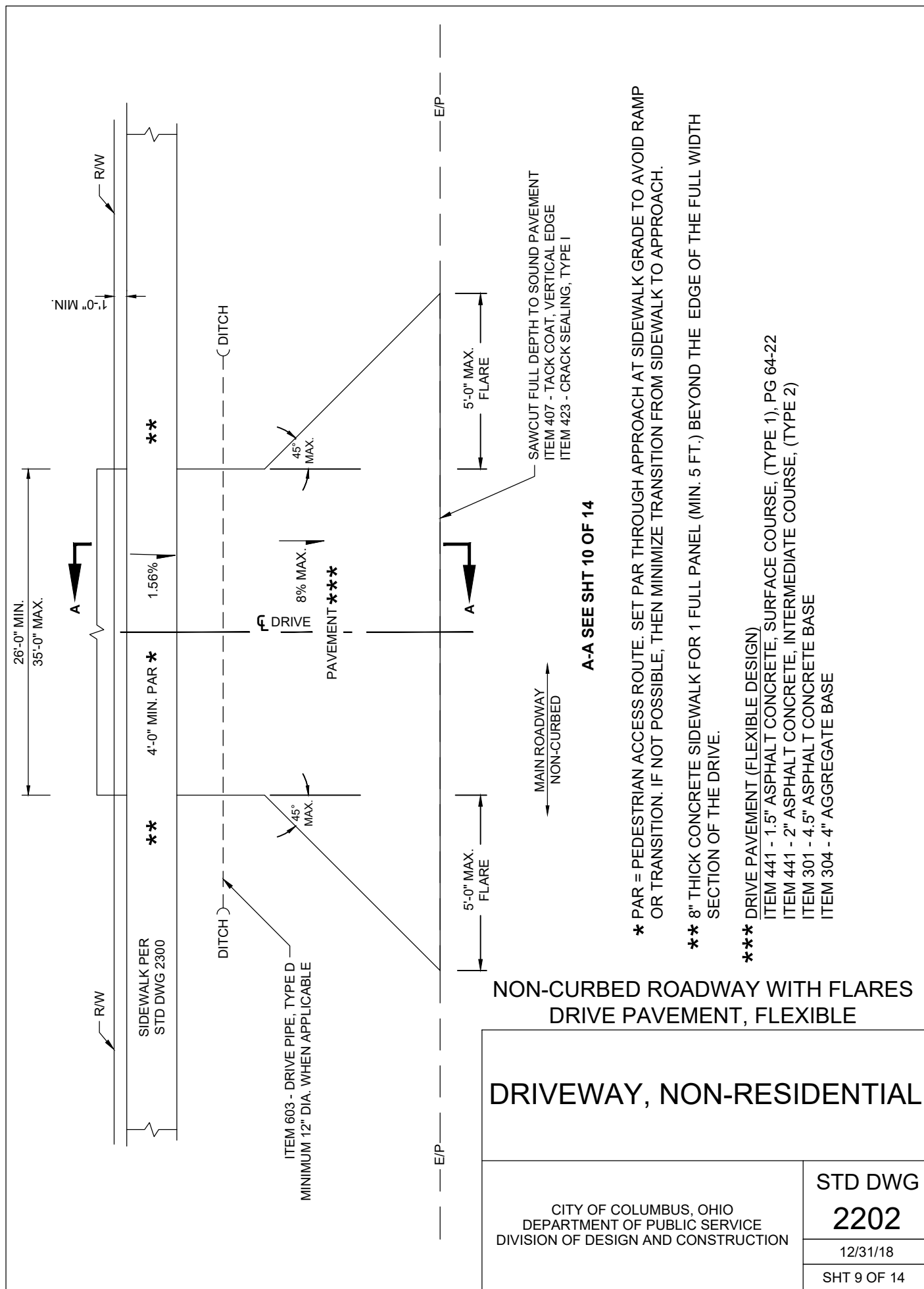
12/31/18

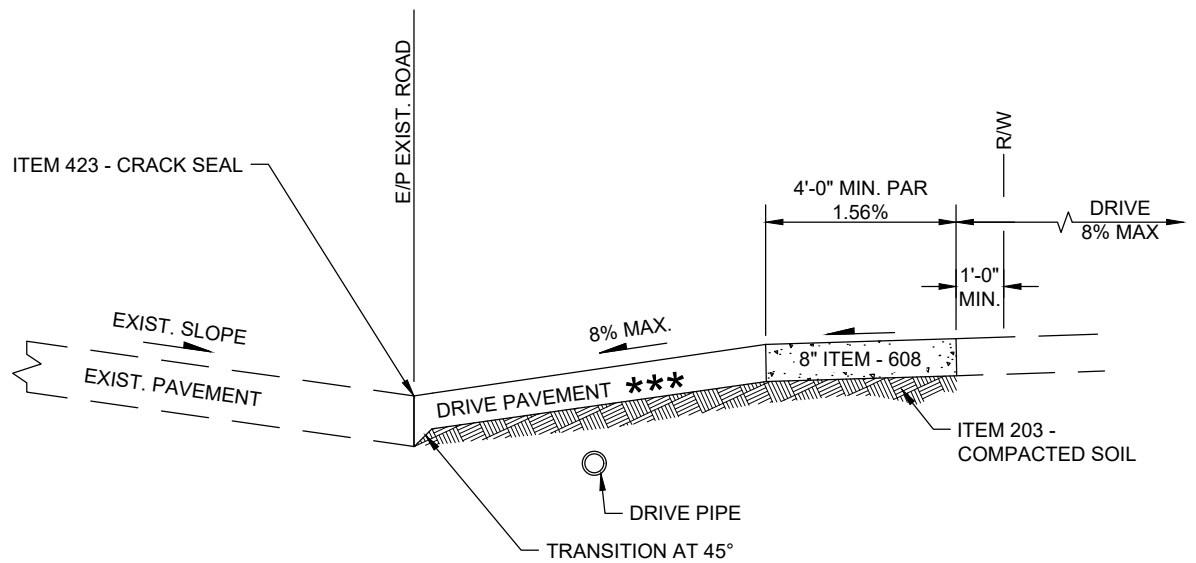
SHT 8 OF 14



SECTION A-A







SECTION A-A

**NON-CURBED ROADWAY WITH FLARES
DRIVE PAVEMENT, FLEXIBLE**

DRIVEWAY, NON-RESIDENTIAL

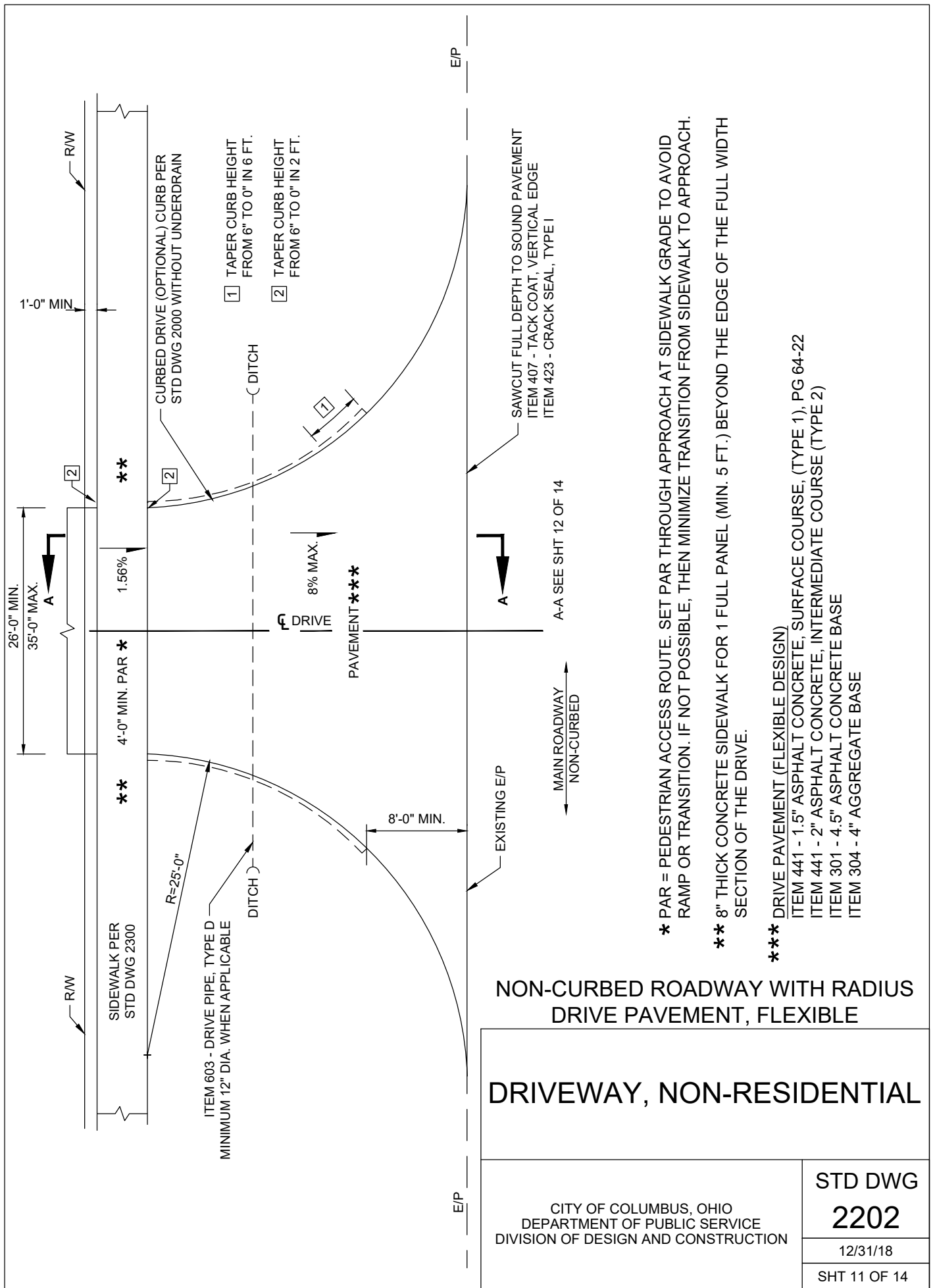
CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

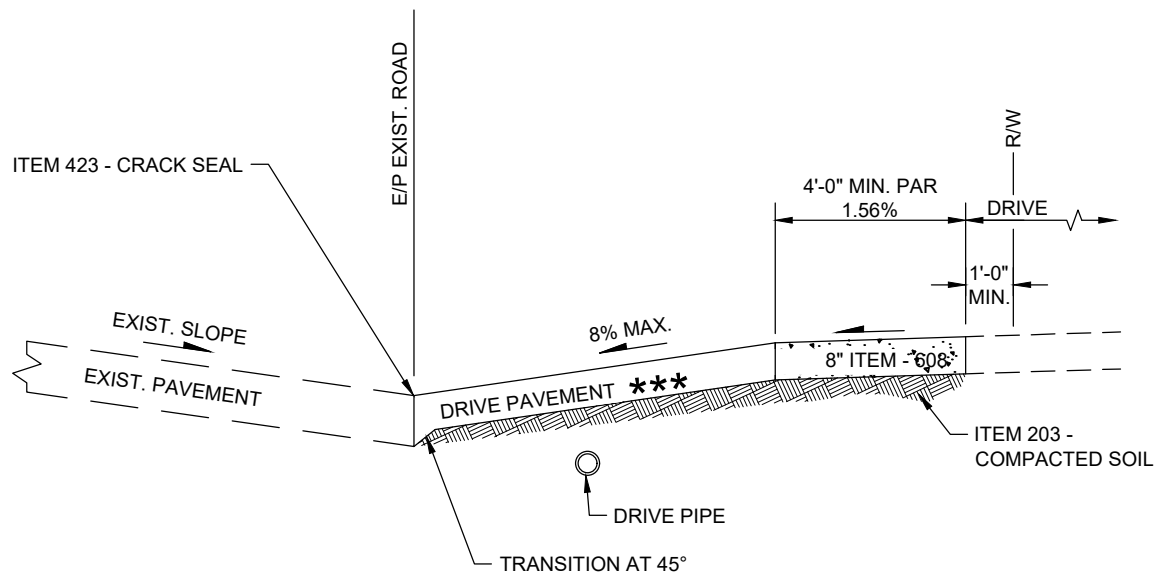
STD DWG

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SHT 10 OF 14





SECTION A-A

NON-CURBED ROADWAY WITH RADIUS,
DRIVE PAVEMENT, FLEXIBLE

DRIVEWAY, NON-RESIDENTIAL

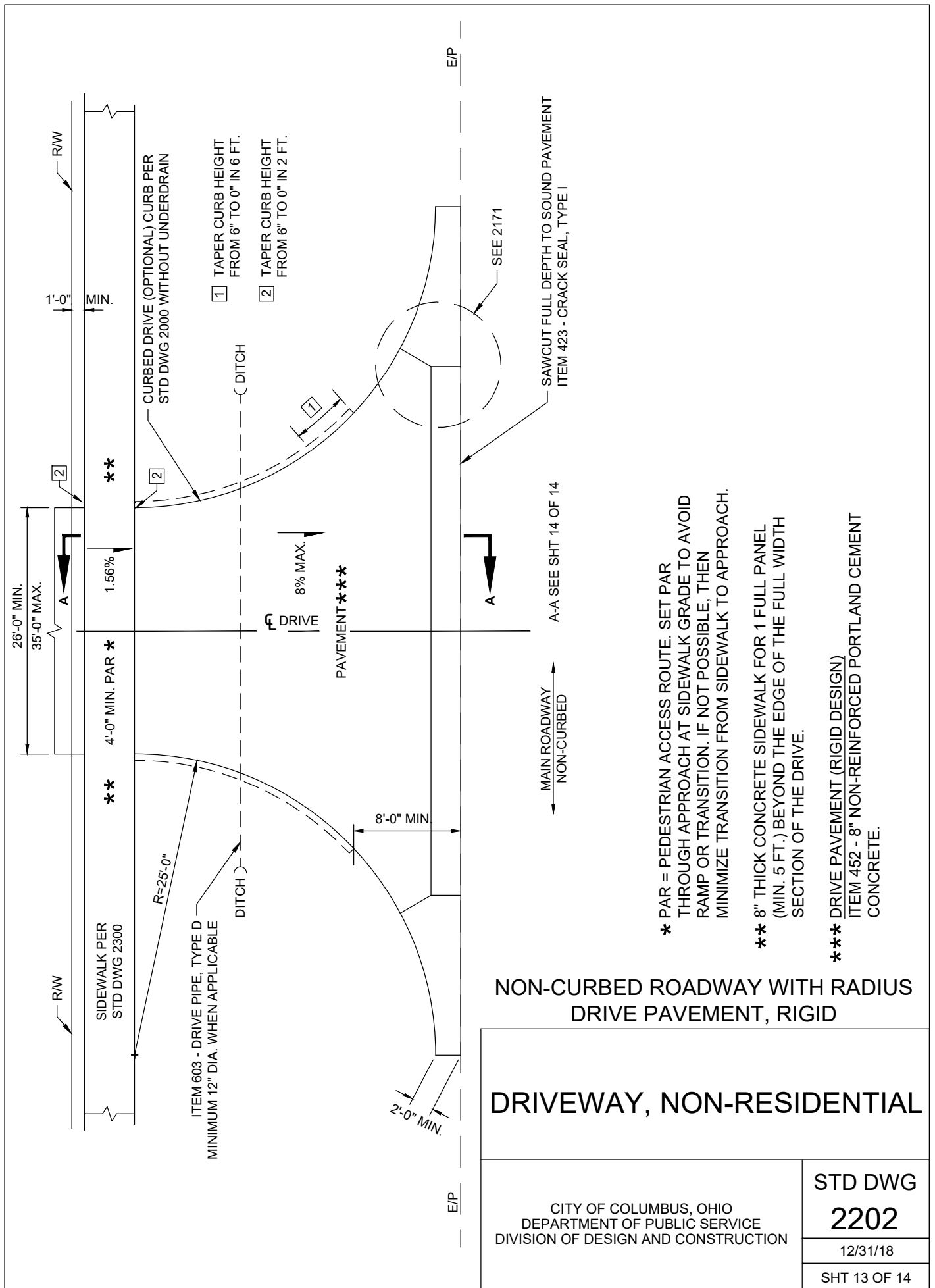
CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

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* PAR = PEDESTRIAN ACCESS ROUTE. SET PAR THROUGH APPROACH AT SIDEWALK GRADE TO AVOID RAMP OR TRANSITION. IF NOT POSSIBLE, THEN MINIMIZE TRANSITION FROM SIDEWALK TO APPROACH.

** 8" THICK CONCRETE SIDEWALK FOR 1 FULL PANEL (MIN. 5 FT.) BEYOND THE EDGE OF THE FULL WIDTH SECTION OF THE DRIVE.

*** DRIVE PAVEMENT (RIGID DESIGN) ITEM 452 - 8" NON-REINFORCED PORTLAND CEMENT CONCRETE.

NON-CURBED ROADWAY WITH RADIUS
DRIVE PAVEMENT, RIGID

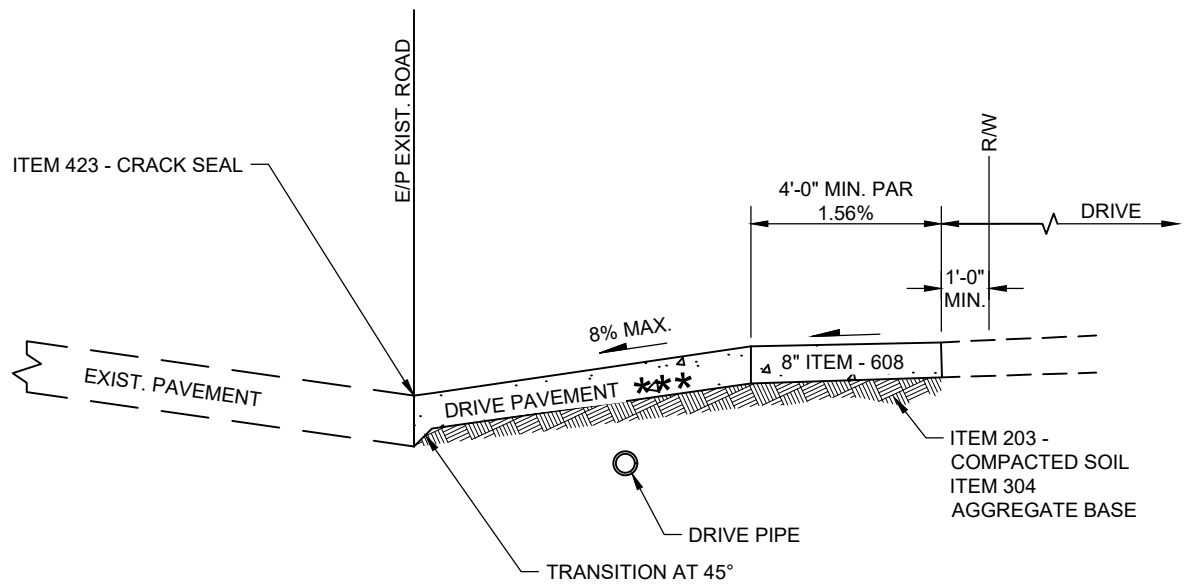
DRIVEWAY, NON-RESIDENTIAL

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

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SECTION A-A

NON-CURBED ROADWAY WITH RADIUS
DRIVE PAVEMENT, RIGID

DRIVEWAY, NON-RESIDENTIAL

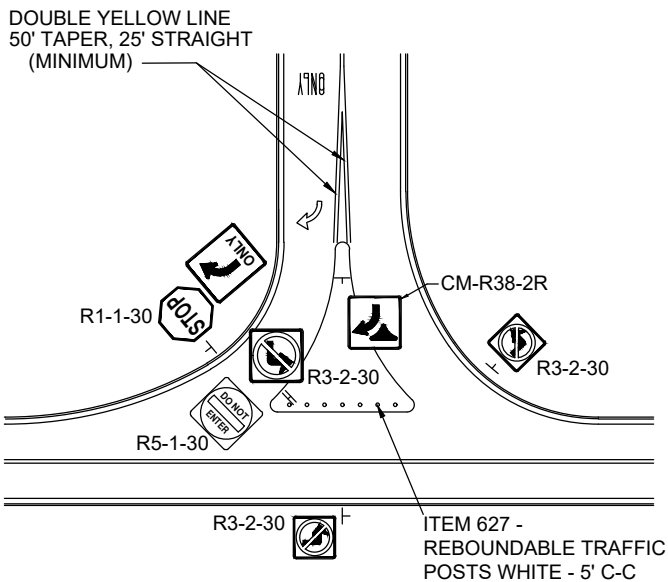
CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

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ISLAND CORNER RADII ARE 2' MIN.

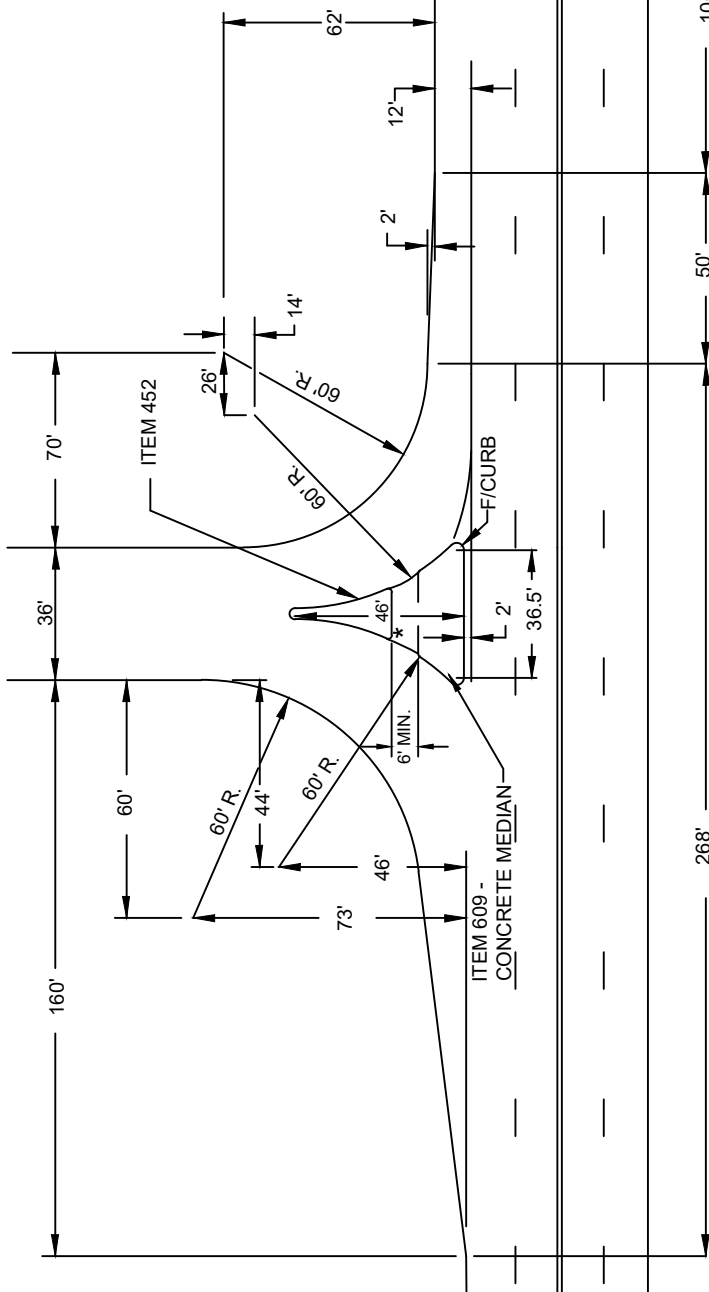
CITY ENGINEER

DIMENSIONS ARE TO FACE OF CURB
(UNLESS OTHERWISE NOTED).

DESIGN IS FOR WB-50 TURNING TEMPLATE.

ISLAND CORNER RADII ARE 2' MIN.

* DRIVE ISLANDS SHALL BE BUILT WITH
AN ADA COMPLIANT PEDESTRIAN
CROSSING. SEE STD DWG 2319.



DRIVEWAY RIGHT IN & RIGHT OUT WITH ADD LANE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

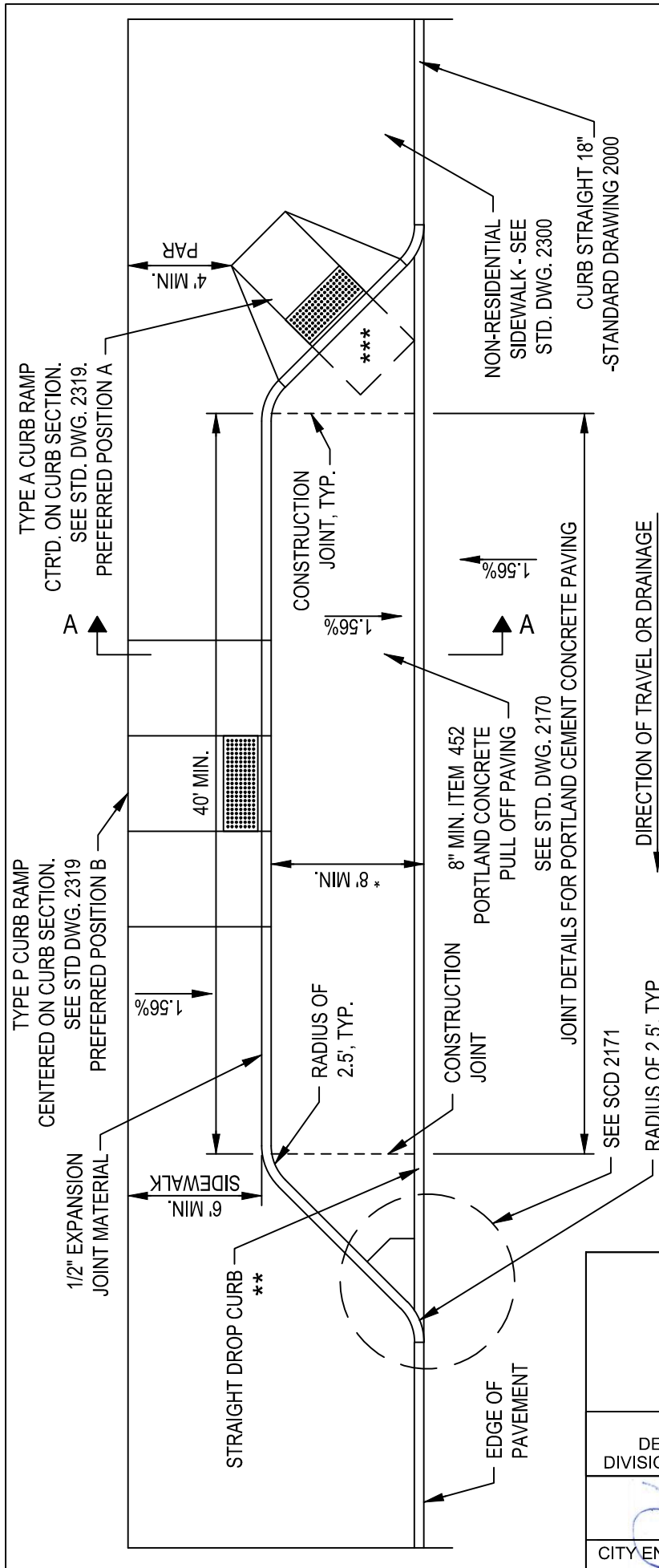
STD DWG
2213

CITY ENGINEER

04/30/18

SHT 1 OF 1

ANY DEVIATIONS FROM THE ABOVE
DIMENSIONS SHALL REQUIRE A DESIGN
SPECIFICALLY FOR THOSE DEVIATIONS.



* THE MINIMUM WIDTH OF PULL OFF SHALL BE 10' WHEN ADJACENT TO A TRAVEL LANE. ANY EXCEPTIONS REQUIRE DIVISION OF TRAFFIC MANAGEMENT APPROVAL.

** THE TYPE OF CURB AT THE EDGE OF PAVEMENT ALONG THE VEHICLE PULL OFF WILL BE THE SAME TYPE OF CURB PLACED ADJACENT TO THE VEHICLE PULL OFF BUT IN A DROP CONDITION AND SHALL MAINTAIN A 1" ELEVATION DIFFERENCE TO CHANNEL RUNOFF. SEE STD DWG 2201 SECTION A-A STRAIGHT CURB AND COMBINATION CURB AND GUTTER FOR DROP CONDITION.

*** THE MINIMUM LANDING WIDTH IS 4' SQUARE AND SHALL BE ADA COMPLIANT.

THE ADA COMPLIANT RAMP SHALL BE PLACED IN PREFERRED POSITION A. POSITION A MAY BE ON EITHER SIDE OF THE PULL OFF, BUT PREFERRED ON THE UPSTREAM SIDE OF THE DRAINAGE AND AT THE REAR OF THE TRAFFIC FLOW. IF POSITION A CANNOT BE ACCOMPLISHED, POSITION B MAY BE UTILIZED. POSITION B MAY BE SHIFTED AS NEEDED WITHIN THE STRAIGHT SECTION OF THE PULL OFF.

A MINIMUM AREA OF 4' WIDE BY 20' LONG, ADJACENT TO THE CURB, SHALL BE PROVIDED IN THE STRAIGHT SECTION OF THE PULL OFF WITH NO STREET FURNITURE OR OBSTRUCTIONS.

VEHICLE PULL OFF

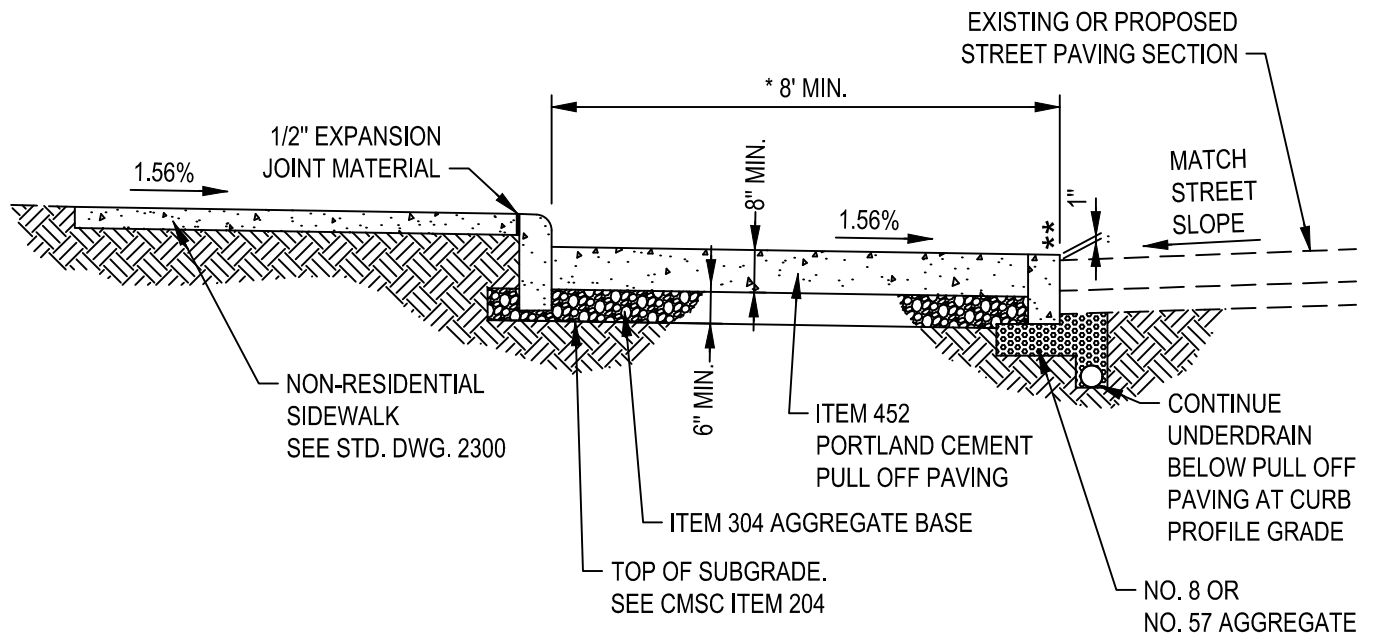
CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

CITY ENGINEER

STD DWG
2214

12/31/2018

SHT 1 OF 2



SECTION A

- * THE MINIMUM WIDTH OF PULL OFF SHALL BE 10' WHEN ADJACENT TO A TRAVEL LANE. ANY EXCEPTIONS REQUIRE DIVISION OF TRAFFIC MANAGEMENT APPROVAL.
- ** THE TYPE OF CURB AT THE EDGE OF PAVEMENT ALONG THE VEHICLE PULL OFF WILL BE THE SAME TYPE OF CURB PLACED ADJACENT TO THE VEHICLE PULL OFF BUT IN A DROP CONDITION AND SHALL MAINTAIN A 1" ELEVATION DIFFERENCE TO CHANNEL RUNOFF. SEE STD DWG 2201 SECTION A-A STRAIGHT CURB AND COMBINATION CURB AND GUTTER FOR DROP CONDITION.

VEHICLE PULL OFF

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

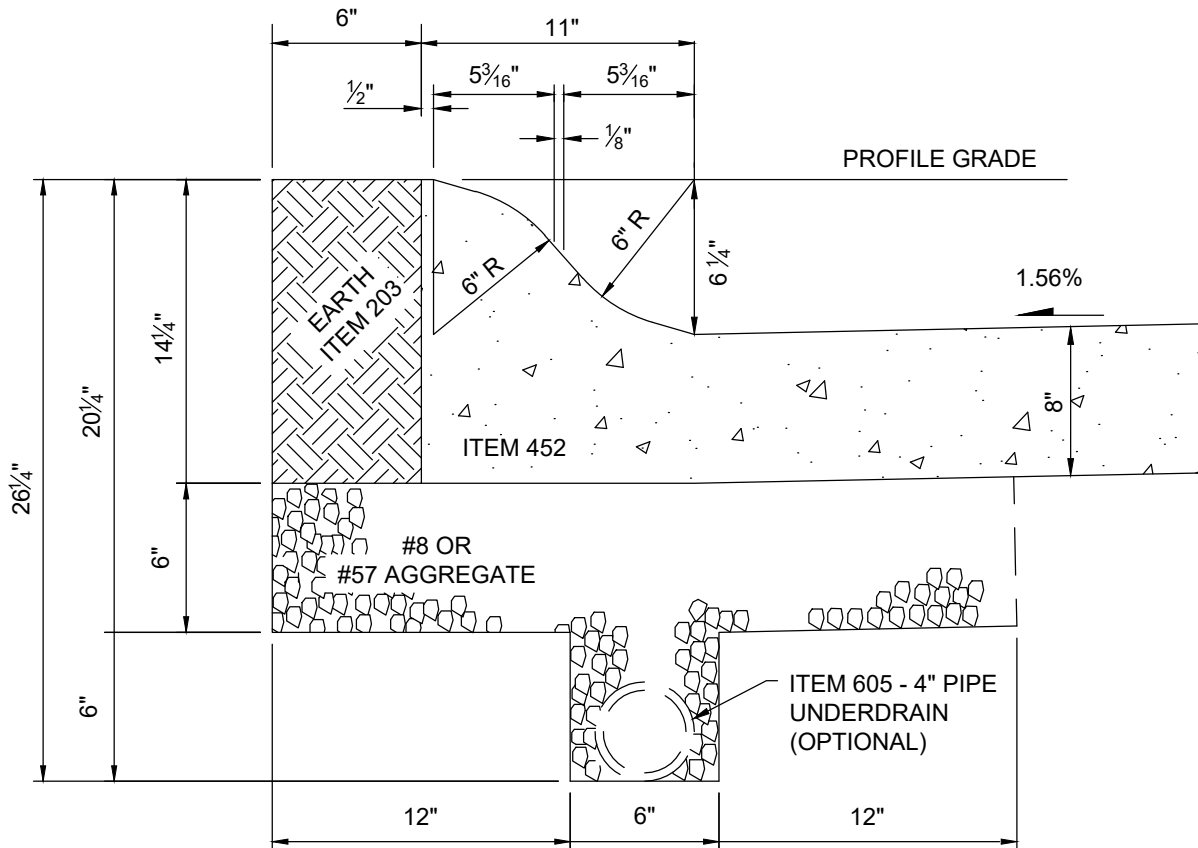
STD DWG
2214

12/31/2018

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SECTION VIEW OF DRIVE



ITEM 452 - 8" NON-REINFORCED CONCRETE PAVEMENT WITH INTEGRAL CURB

INTEGRAL CURB, GUTTER, AND
PAVEMENT FOR
NON-RESIDENTIAL DRIVES

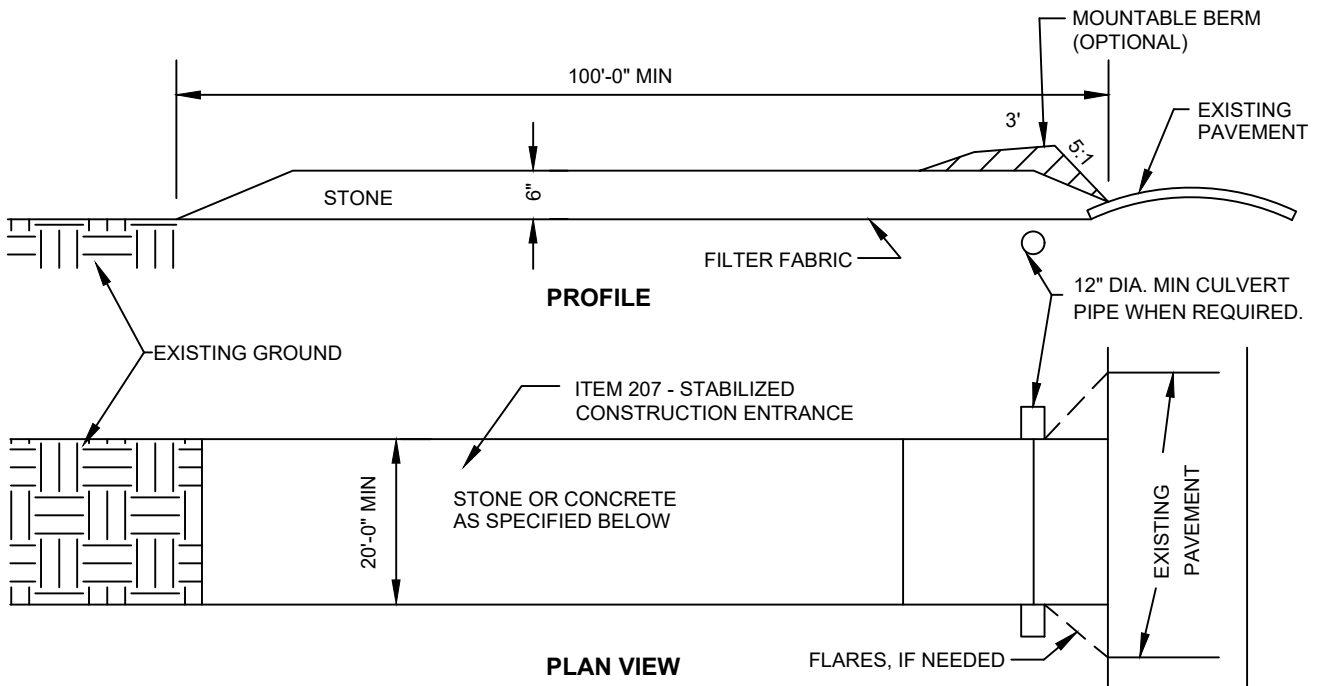
CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

CITY ENGINEER

STD DWG
2225

4/30/18

SHT 1 OF 1



STABILIZED CONSTRUCTION ENTRANCE

1. STONE SIZE - USE 2" STONE OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - SHALL BE A LENGTH REQUIRED TO KEEP SEDIMENT OFF ROADWAY, BUT MAY BE LONGER AS DETERMINED BY THE CITY OF COLUMBUS.
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWENTY (20) FEET MINIMUM BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. MAY BE WIDER AS DETERMINED BY THE CITY OF COLUMBUS.
5. FLARES OR RADII SHALL BE INSTALLED AT THE ENTRANCE IF THE PUBLIC ROADWAY SPEEDS AND/OR TRAFFIC CONDITIONS WARRANT IT, OR IF DIRECTED BY C.O.C. PERSONNEL.
6. FILTER FABRIC - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE.
7. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES SHALL BE PERMITTED.
8. CULVERT PIPE - 12" MINIMUM PIPE IS REQUIRED IF A STORM DITCH OR SWALE EXISTS AT THE PROPOSED ENTRANCE. THE CULVERT PIPE INVERTS SHALL MATCH THE EXISTING DITCH AT BOTH SIDES OF THE ENTRANCE.
9. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PROTECT THE PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.
10. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE INTO 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.
11. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.
12. MAINTENANCE OF TRAFFIC SIGNAGE SHALL BE A 48" x 48" CONSTRUCTION ENTRANCE AHEAD, 200' (ADEQUATE SIGHT DISTANCE SHALL BE CONSIDERED) BEFORE THE ENTRANCE ON BOTH SIDES OF THE ROAD OR AS APPROVED BY THE C.O.C. TEMPORARY TRAFFIC CONTROL COORDINATOR. YOU SHALL CALL THE TTCC @ 645-7393 BEFORE STARTING THE ENTRANCE WORK.

TEMPORARY CONSTRUCTION ENTRANCE

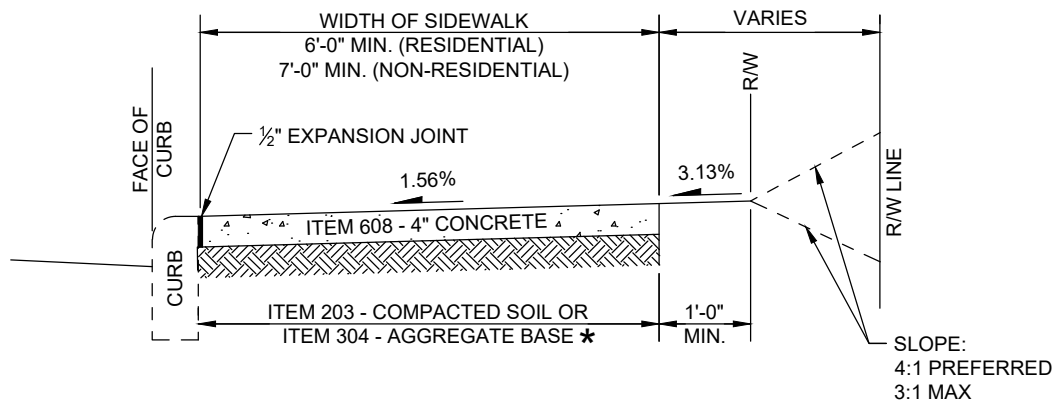
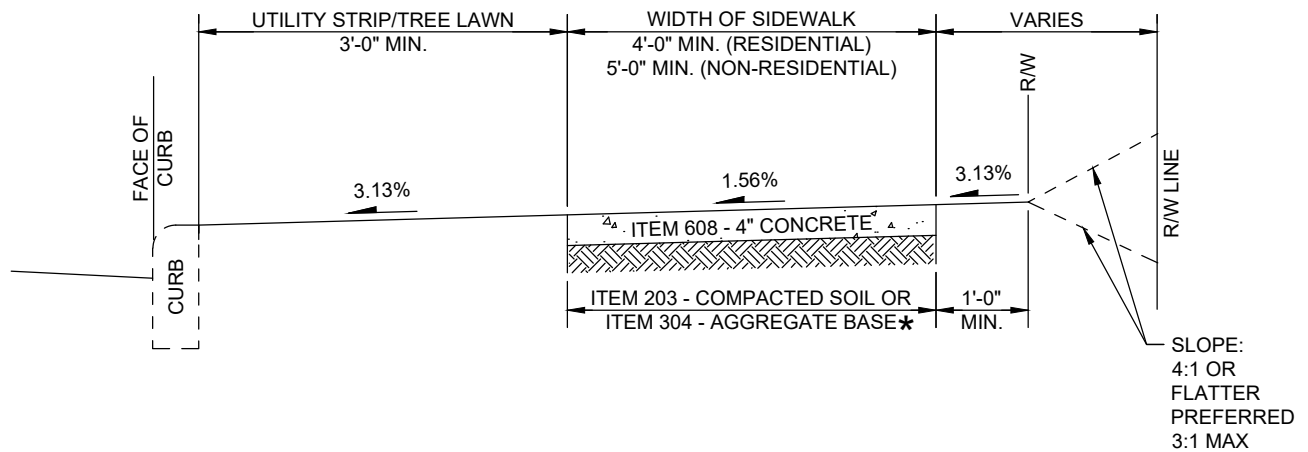
CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

CITY ENGINEER

STD DWG
2230

04/30/18

SHT 1 OF 1



WHERE SIDEWALKS ABUT DRIVEWAYS OR ALLEY APPROACHES, THE CONCRETE THICKNESS OF THE WALK SHALL EQUAL THE THICKNESS OF THE APPROACH (6" MINIMUM) FOR A DISTANCE OF ONE (1) FULL PANEL OR MINIMUM 5 FEET. SEE STANDARD DRAWING OF THE APPLICABLE DRIVEWAY OR ALLEY.

WHERE NEW WALK ABUTS ADJOINING WALK, SAWCUT EXISTING WALK TO NEAREST JOINT AND INSTALL EXPANSION JOINT.

EXPANSION JOINT LOCATION AND SPACING PER ITEM 608.03.

WATER AND UTILITY BOXES IN THE SIDEWALK AREA SHALL BE ADJUSTED FLUSH WITH FINAL SURFACE.

ROOF DRAINS SHALL BE EXTENDED UNDER THE SIDEWALK AND THROUGH THE CURB. SEE STD DWG 2320.

ITEM NUMBERS REFER TO THE CITY OF COLUMBUS CMSC, CURRENT EDITION. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THESE SPECIFICATIONS.

★ #57 AGGREGATE MAY BE USED FOR REPLACEMENT WORK.

SIDEWALK

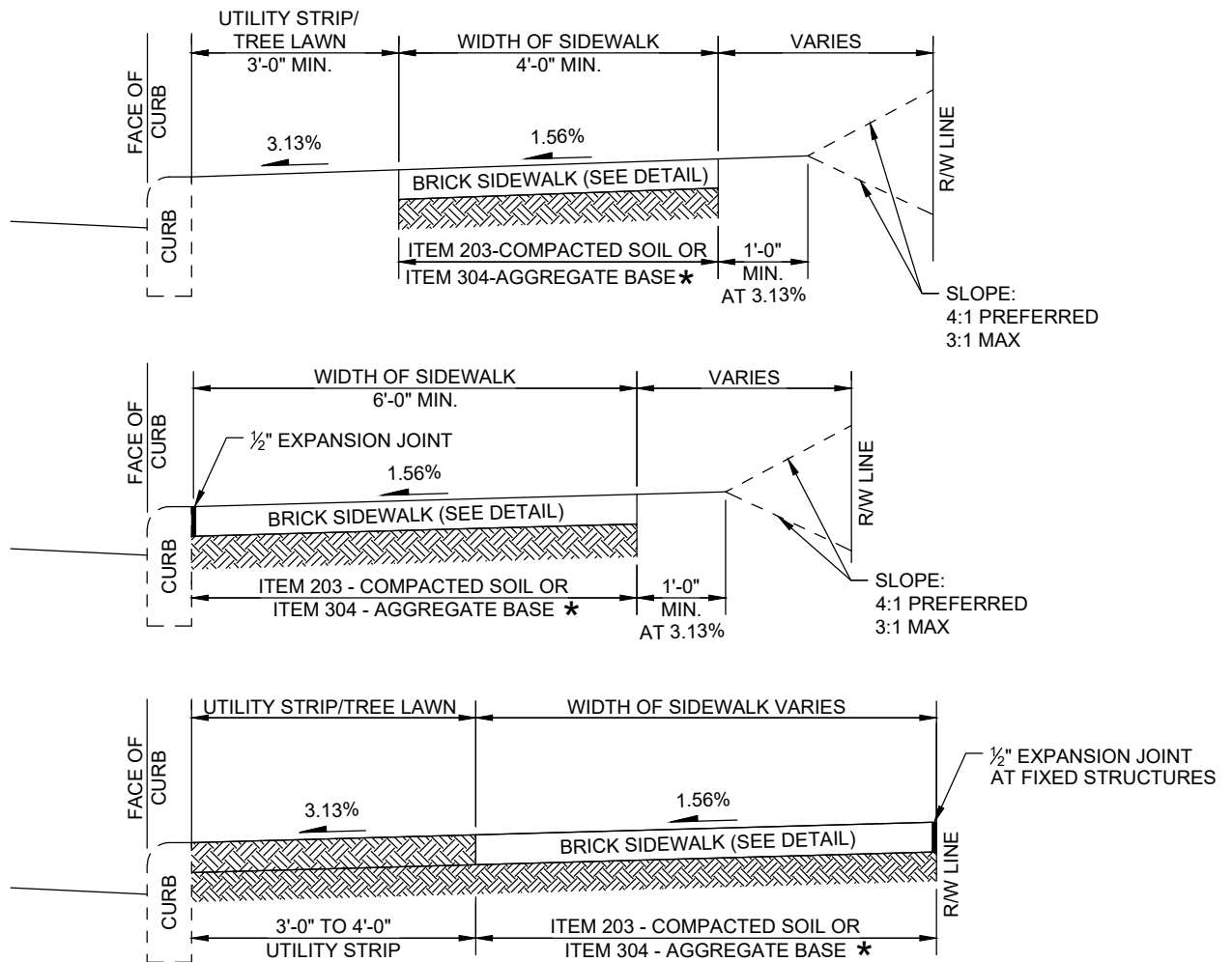
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DEPARTMENT OF PUBLIC SERVICE
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2300

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WHERE NEW WALK ABUTS ADJOINING WALK, SAWCUT EXISTING WALK TO NEAREST JOINT AND INSTALL EXPANSION JOINT.

EXPANSION JOINT LOCATIONS AND SPACING PER ITEM 608.03.

WATER AND UTILITY BOXES IN THE SIDEWALK AREA SHALL BE ADJUSTED FLUSH WITH FINAL SURFACE.

ROOF DRAINS SHALL BE EXTENDED UNDER THE SIDEWALK AND THROUGH THE CURB. SEE STD DWG 2320.

WHEN A SIDEWALK IS CONSTRUCTED FOR THE ENTIRE WIDTH FROM THE CURB TO THE R/W LINE, THE WALK SHALL BE CONSTRUCTED PART WIDTH AT A TIME, ALLOWING FOR SUFFICIENT UNOBSTRUCTED AREA 48" WIDE FOR SAFE MOVEMENT OF PEDESTRIAN TRAFFIC, OR AS APPROVED BY ENGINEER.

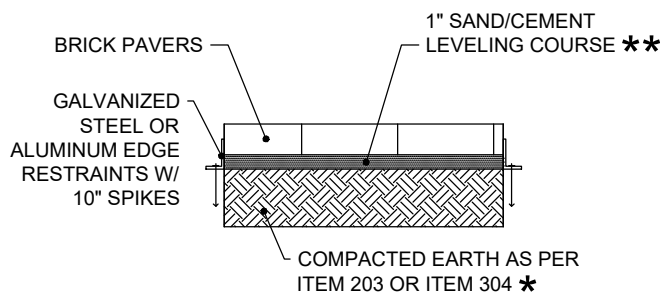
ITEM NUMBERS REFER TO THE CITY OF COLUMBUS CMSC, CURRENT EDITION. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THESE SPECIFICATIONS.

* #57 AGGREGATE MAY BE USED FOR REPLACEMENT WORK.

** THE SAND TO CEMENT RATIO IS 5 PARTS SAND TO ONE PART CEMENT.

RESIDENTIAL

BRICK SIDEWALK



DETAIL

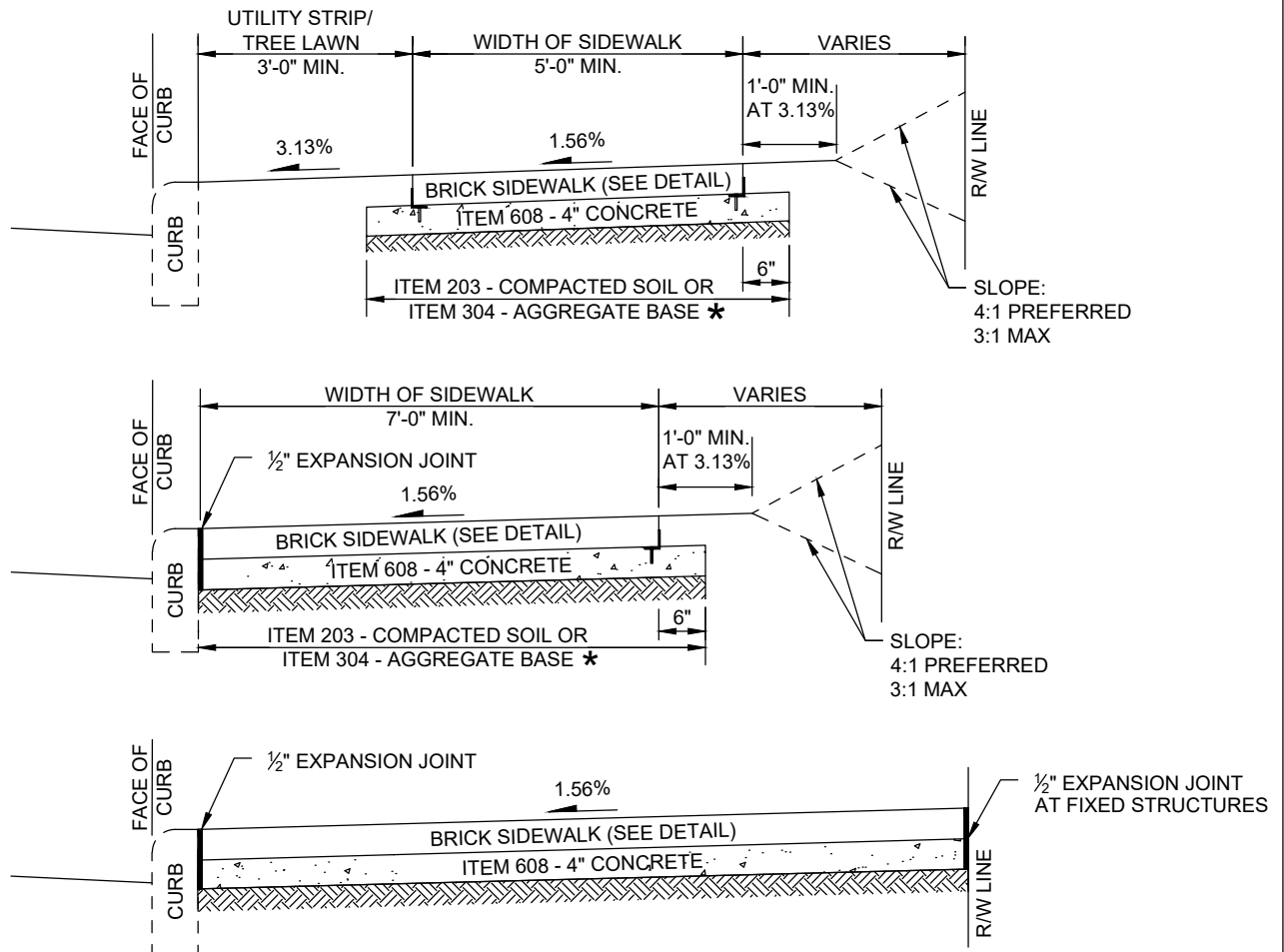
CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

CITY ENGINEER

**STD DWG
2301**

04/30/18

SHT 1 OF 3



WHERE SIDEWALKS ABUT DRIVEWAYS OR ALLEY APPROACHES, THE CONCRETE THICKNESS OF THE WALK SHALL EQUAL THE THICKNESS OF THE APPROACH (6" MINIMUM) FOR A DISTANCE OF ONE (1) FULL PANEL OR MINIMUM 5 FEET. SEE STANDARD DRAWING OF THE APPLICABLE DRIVEWAY OR ALLEY.

WHERE NEW WALK ABUTS ADJOINING WALK, SAWCUT EXISTING WALK TO NEAREST JOINT AND INSTALL EXPANSION JOINT.

EXPANSION JOINT LOCATIONS AND SPACING PER ITEM 608.03.

WATER AND UTILITY BOXES IN THE SIDEWALK AREA SHALL BE ADJUSTED FLUSH WITH FINAL SURFACE.

ROOF DRAINS SHALL BE EXTENDED UNDER THE SIDEWALK AND THROUGH THE CURB. SEE STD DWG 2320.

WHEN A SIDEWALK IS CONSTRUCTED FOR THE ENTIRE WIDTH FROM THE CURB TO THE R/W LINE, THE WALK SHALL BE CONSTRUCTED PART WIDTH AT A TIME, ALLOWING FOR SUFFICIENT UNOBSTRUCTED AREA 48" WIDE FOR SAFE MOVEMENT OF PEDESTRIAN TRAFFIC, OR AS APPROVED BY ENGINEER.

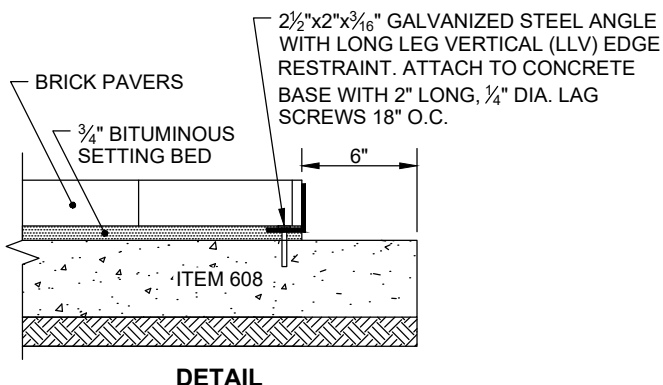
ONE INCH CONTRACTION JOINTS SHALL BE SAWED IN THE CONCRETE EVERY 10 FEET.

ITEM NUMBERS REFER TO THE CITY OF COLUMBUS CMSC, CURRENT EDITION. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THESE SPECIFICATIONS.

★ #57 AGGREGATE MAY BE USED FOR REPLACEMENT WORK.

NON-RESIDENTIAL

BRICK SIDEWALK



CITY OF COLUMBUS, OHIO
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2301

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SHT 2 OF 3

ITEM SPECIAL - BRICK PAVERS INCLUDING CONCRETE BASE

SEE SUPPLEMENTAL SPECIFICATION SS-1524 ROADWAY PAVERS; FOLLOW ALL APPLICATION STANDARDS, SUBMITTAL REQUIREMENTS, MATERIALS, CONSTRUCTION REQUIREMENTS, QUALITY ASSURANCE AND CONTROL, METHOD OF MEASUREMENT, BASIS OF PAYMENT AND WARRANTY REQUIREMENTS.

MANUFACTURERS AND MATERIALS SHALL BE AS PER THE QUALIFIED PRODUCTS LIST AND APPROVED MANUFACTURERS / SUPPLIERS LIST.

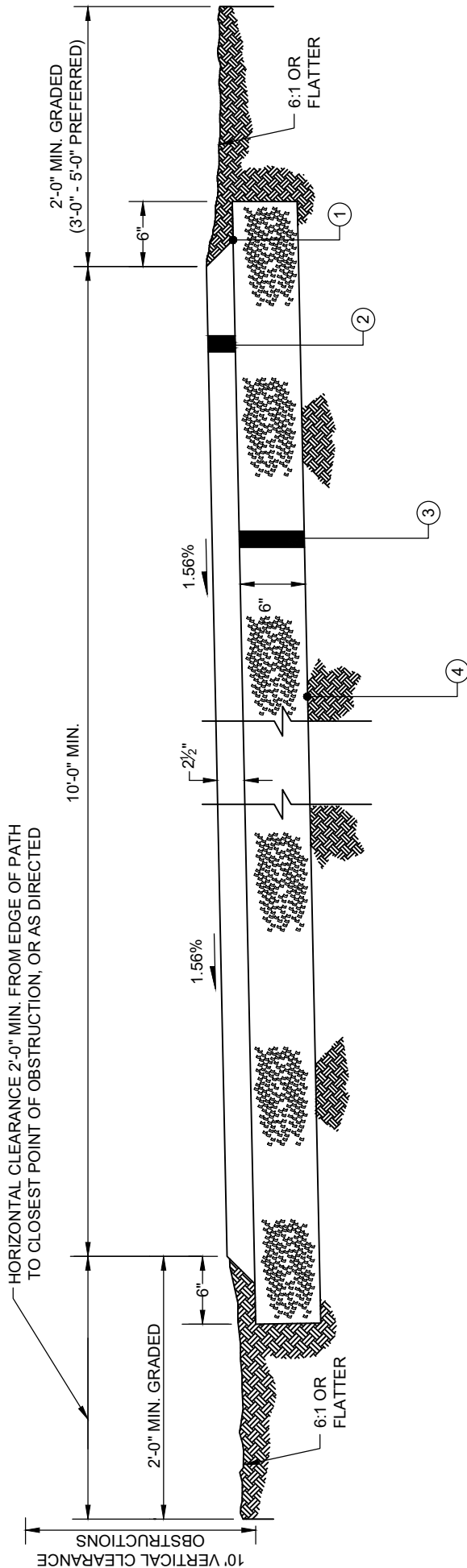
**BRICK
SIDEWALK**

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

**STD DWG
2301**

04/30/18

SHT 3 OF 3



- ① ANGLE HAND TAMP AT 45°
- ② ITEM 441 - 2.5" ASPHALT CONCRETE SURFACE COURSE (LIGHT TRAFFIC), PG 64-22
- ③ ITEM 304 - 6" AGGREGATE BASE
- ④ ITEM 204 - SUBGRADE COMPACTION

PAVEMENT DETAIL

SHARED USE PATH

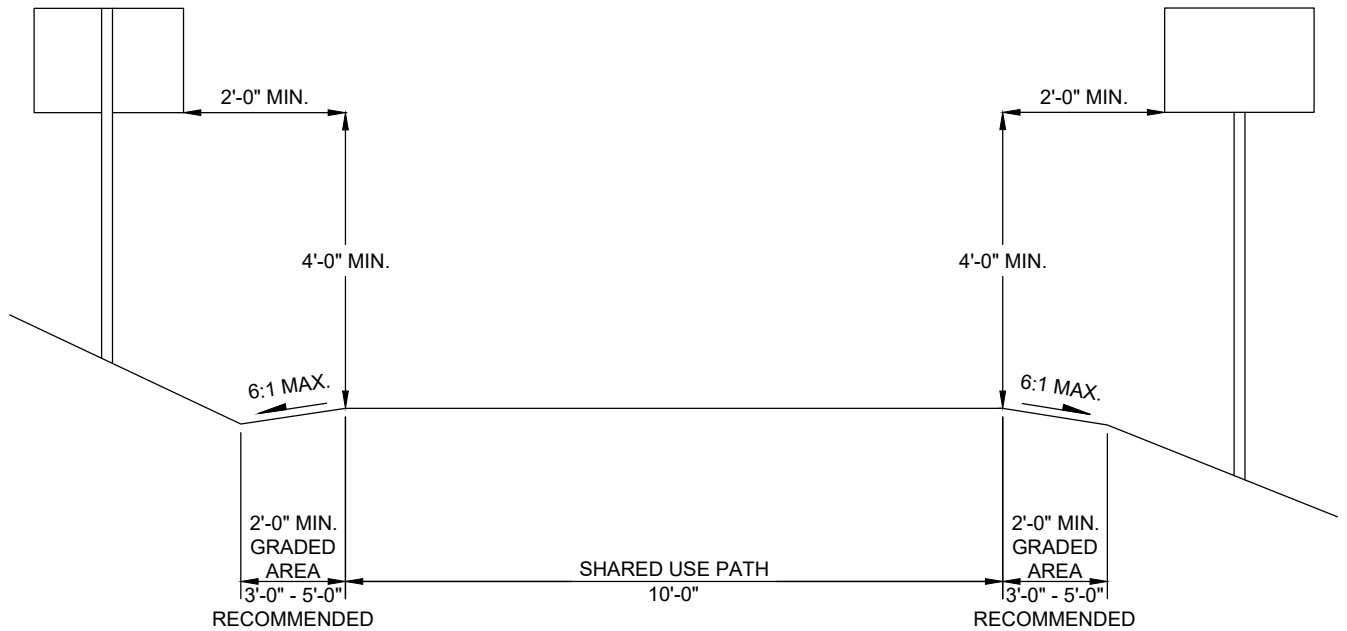
CITY OF COLUMBUS, OHIO
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2310

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SHT 1 OF 5



REFERENCE GUIDE TO BICYCLE FACILITIES,
CURRENT EDITION FOR SAFETY RAIL REQUIREMENTS.

SIGN DETAIL

SHARED USE PATH

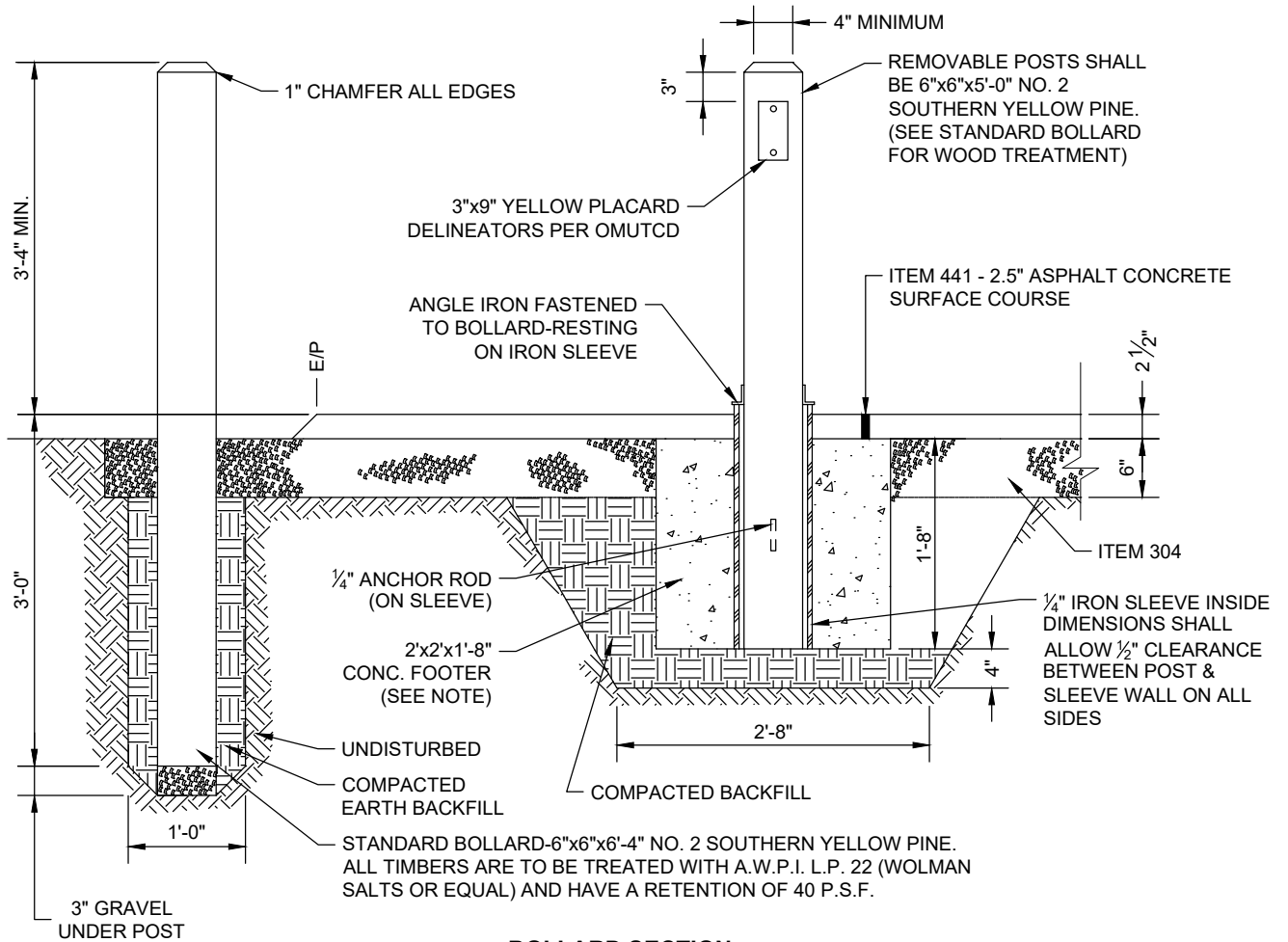
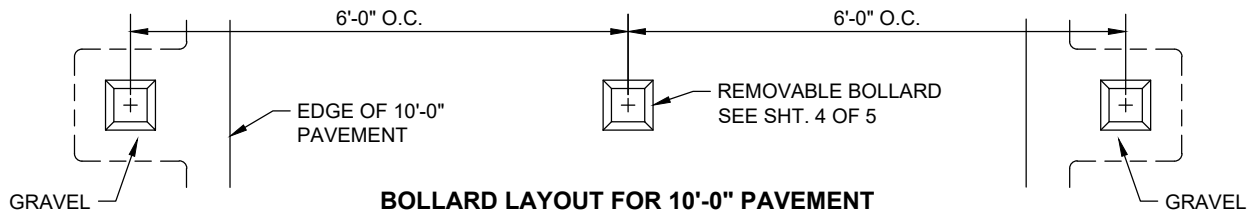
CITY OF COLUMBUS, OHIO
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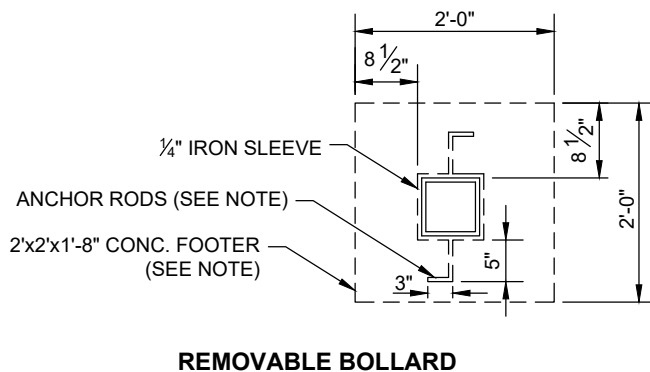


THE CONTRACTOR SHALL INSTALL THE EARTH BACKFILL IN 6" LIFTS AND TAKE CARE TO PLUMB EACH POST.

THE IRON SLEEVES, ANGLE IRON, AND ANCHOR RODS SHALL BE PAINTED WITH TWO COATS OF RUST-OLEUM NO769 DAMP-PROOF RED PRIMER OR EQUAL PRIOR TO INSTALLATION.

THE CONTRACTOR MAY SUBSTITUTE A 24" CIRCULAR FOOTER IN PLACE OF THE ONE SHOWN BELOW.

WOOD BOLLARD DETAIL



SHARED USE PATH

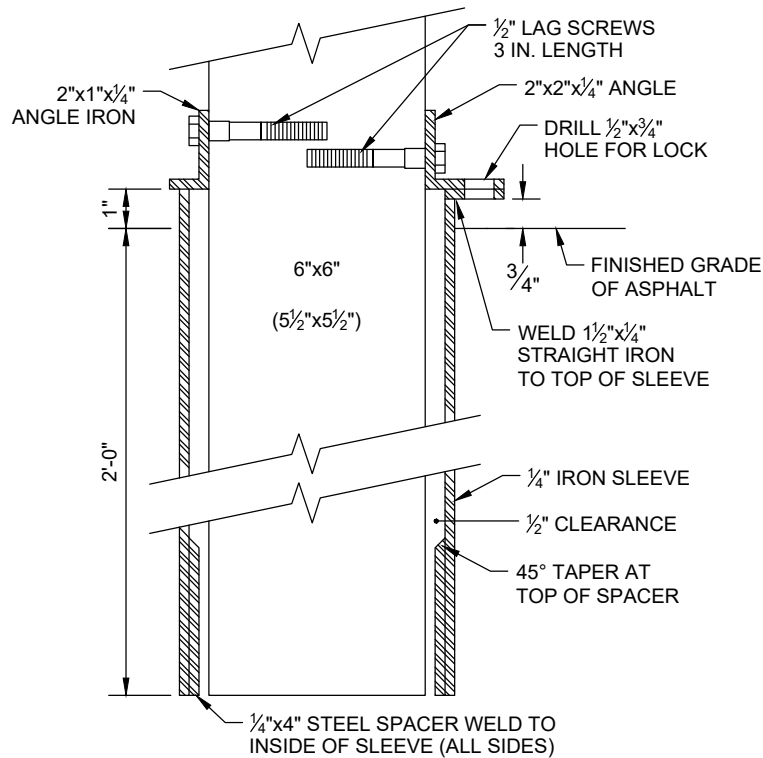
CITY OF COLUMBUS, OHIO
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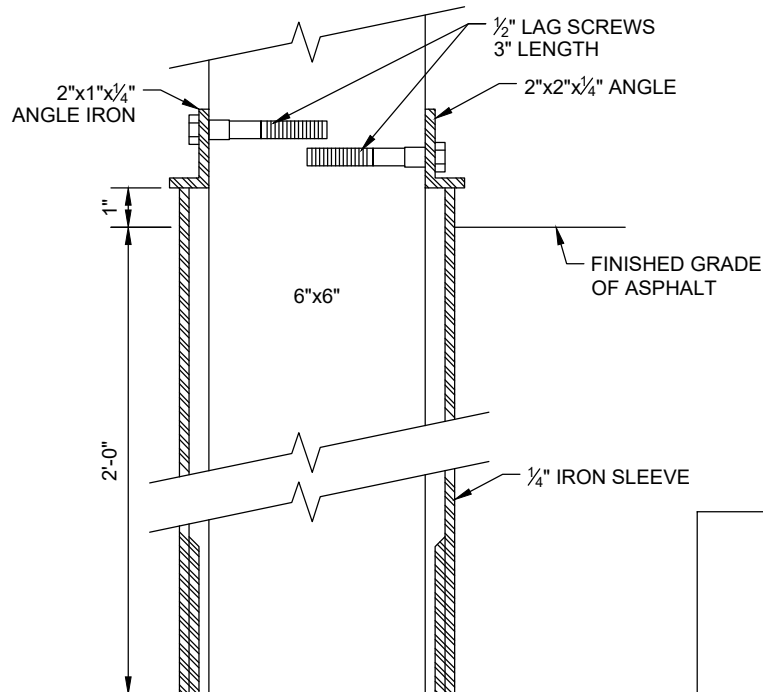
2310

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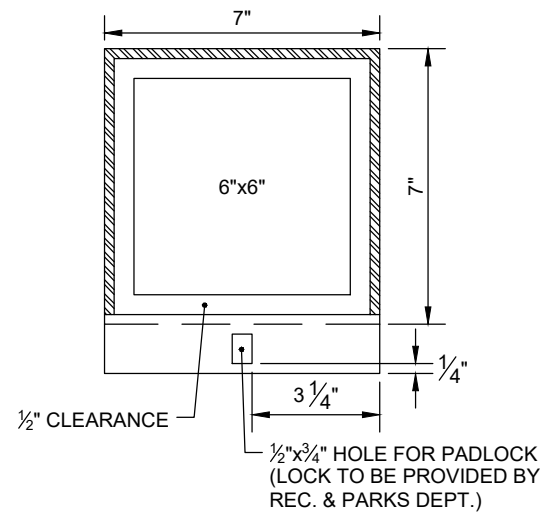
SHT 3 OF 5



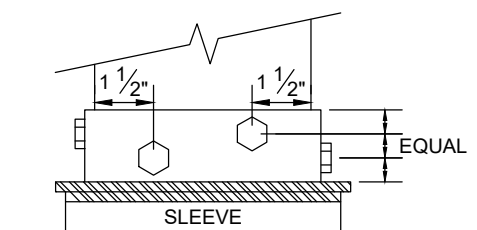
SECTION A-A



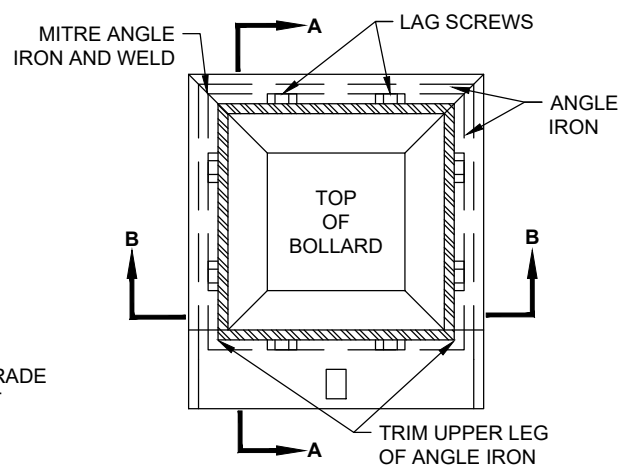
SECTION B-B



PLAN



ELEVATION



PLAN

REMOVABLE BOLLARD DETAIL

SHARED USE PATH

CITY OF COLUMBUS, OHIO
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RAMPS SHALL BE ADA COMPLIANT: SEE STANDARD DRAWINGS 2319/2300.

EXISTING CURB OR COMBINATION CURB AND GUTTER SHALL BE REMOVED AND REPLACED AS REQUIRED FOR INSTALLATION OF RAMP. INSTALL EXPANSION JOINT AT BACK OF CURB. REFERENCE STANDARD DRAWINGS 2000/2010/2020/2030.

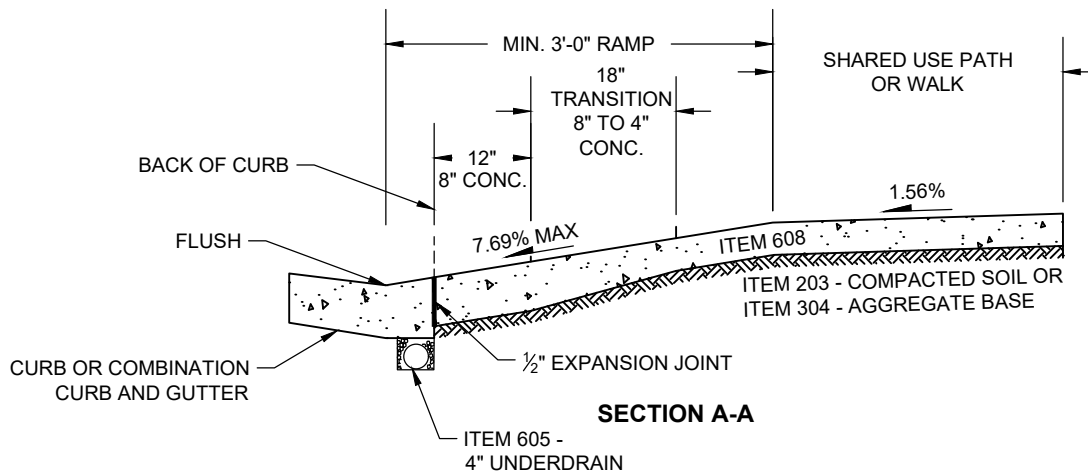
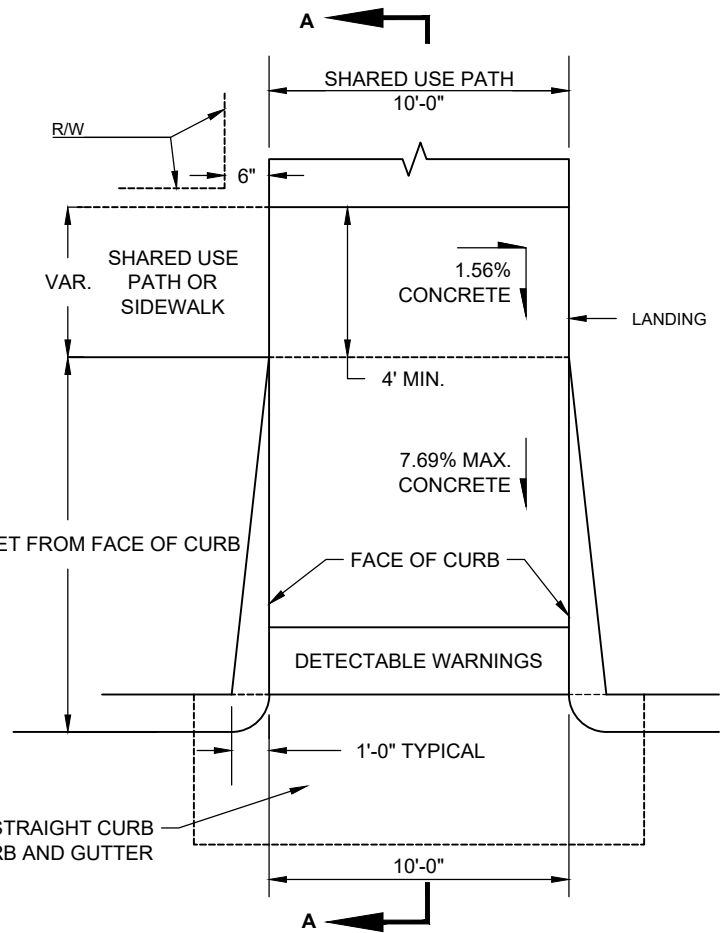
FOR REPLACEMENT WORK, THE CURB OR CURB/GUTTER SHALL BE REMOVED TO AN EXISTING JOINT OR NO CLOSER THAN 5 FT. FROM AN EXISTING JOINT. WHEN LESS THAN 5 FT. OF A CURB SECTION REMAINS AFTER THE CURB CUT IS LOCATED, IT ALSO SHALL BE REMOVED AND REPLACED. CURB SHALL BE CONSTRUCTED IN MIN. 5 FT. SECTIONS & MAX. 10 FT. SECTIONS.

FILLS, IF REQUIRED, SHALL BE PER ITEM 203 OR ITEM 304.

RAMP SHALL BE CONSTRUCTED PER ITEM 608.

EXPANSION JOINTS SHALL BE PLACED TO FORM UTILITY STRIPS WHERE REQUIRED AND WHEREVER NEW CONCRETE TOUCHES EXISTING CONSTRUCTION.

REPLACEMENT OF STRAIGHT CURB OR COMBINED CURB AND GUTTER



RAMP

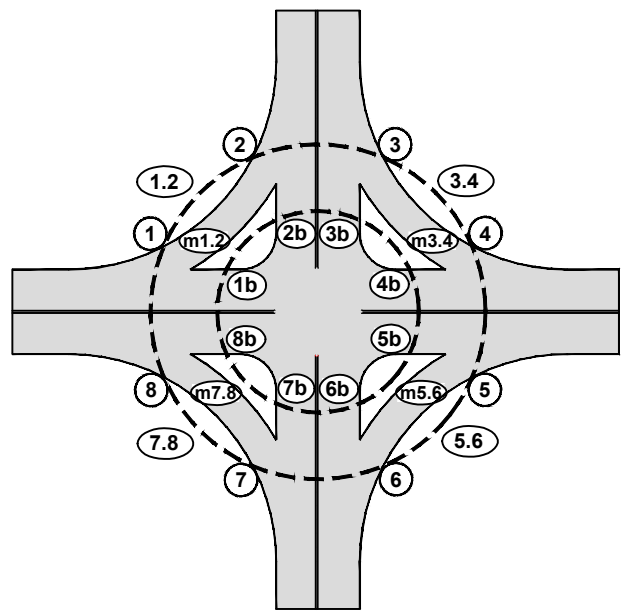
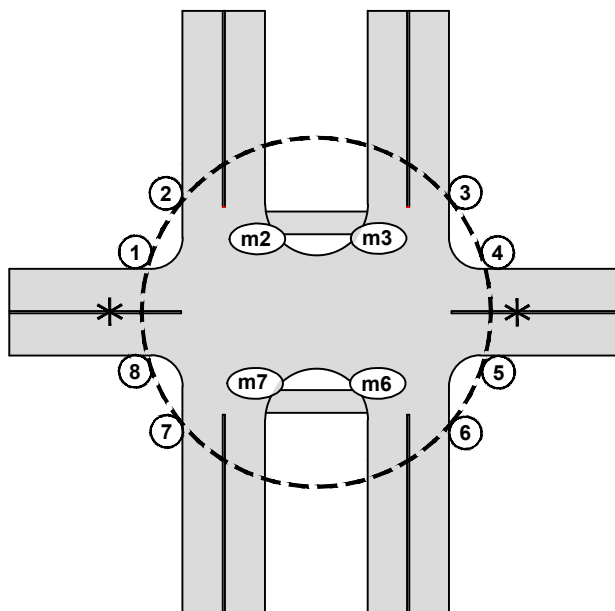
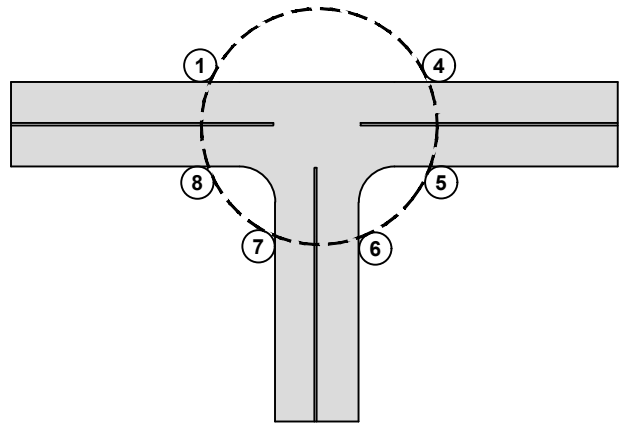
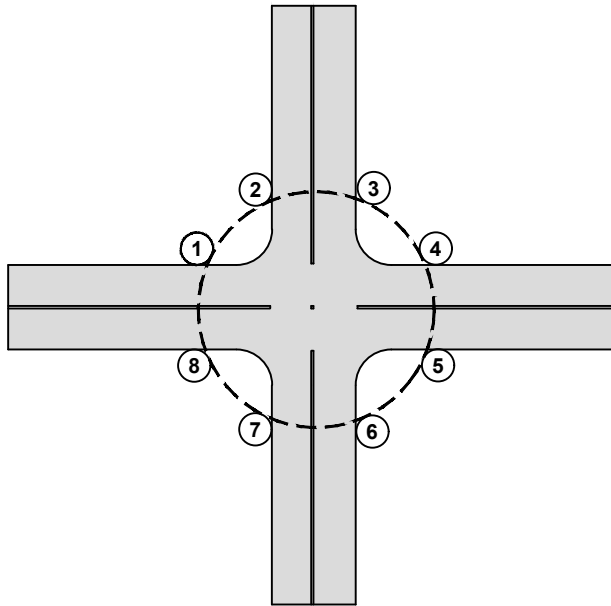
SHARED USE PATH

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
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STD DWG
2310

04/30/18

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ALL NUMBERING BEGINS FROM THE NORTHWEST CORNER AND GOES CLOCKWISE. EACH CORNER HAS ITS SPECIFIC NUMBER THAT SHALL BE USED IF CURB RAMPS ARE IN THESE LOCATIONS.

* MEDIAN RAMPS ON THE WEST AND/OR EAST LEGS WOULD BE M1, M8, AND M4, M5 RESPECTIVELY.

INTERSECTION CURB RAMP NUMBERING SYSTEM

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CITY ENGINEER

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GENERAL NOTES, CURB RAMPS

1. CURB RAMPS SHALL BE INSTALLED PER STD DWGS 2300, 2319, CMSC 608, AND DPS ADA RULES AND REGULATIONS.
2. MATERIAL: THE RAMP PANEL AND FLARED SIDES SHALL BE CONCRETE.
3. RAMP TYPES ARE CATEGORIZED BELOW IN TIERS BY REQUIRED ORDER OF USE. LOCATING THE RAMP AS CLOSE AS POSSIBLE TO THE INTERSECTION FOLLOWING THE CURB RAMP DESIGN BOUNDARY CONTAINED IN THE ADA RULES AND REGULATIONS IS THE FIRST PRIORITY. THE DESIGNER SHALL NOT USE A LOWER TIERED RAMP WITHOUT FIRST DETERMINING AND HAVING JUSTIFICATION THAT THE UPPER TIER RAMPS ARE NOT CONSTRUCTIBLE.

CITY OF COLUMBUS RAMP TYPE HIERARCHY

TIER 1 (THESE PERPENDICULAR RAMPS SHOULD BE UTILIZED WHENEVER POSSIBLE.)

- TYPE D
- TYPE C
- TYPE A

TIER 2 (PARALLEL RAMPS SHOULD ONLY BE USED DUE TO RIGHT OF WAY (ROW) OR OTHER SPACE CONSTRAINTS WHERE A TIER 1 RAMP CANNOT BE USED.)

- TYPE P-6 (6' OF ROW AVAILABLE)
- TYPE P-7 (7' OF ROW AVAILABLE)
- TYPE P-5 (5' OF ROW AVAILABLE)
- TYPE P-4 (4' OF ROW AVAILABLE)

TIER 3 (TIER 3 RAMPS CAN ONLY BE USED WITH WRITTEN APPROVAL BY THE CITY ENGINEER OR DESIGNEE. TIER 3 RAMPS SHALL BE IDENTIFIED IN THE DESIGN SCOPE OR APPROVAL REQUESTED BY THE DESIGNER JUSTIFYING THAT THIS RAMP TYPE IS NECESSARY.)

- TYPE J (MODIFIED ALLEY RAMP), USE SHOULD BE LIMITED DUE TO DRAINAGE CONCERNS
- RADIAL RAMPS
- SINGLE SHARED RAMPS

SPECIALTY RAMPS (SHALL ONLY BE USED FOR THE LISTED SITUATION, OR WRITTEN APPROVAL BY THE CITY ENGINEER OR DESIGNEE.)

- TYPE G - ONLY TO BE USED ON ALLEY CROSSINGS
- TYPE H - ONLY TO BE USED ON ALLEY CROSSINGS
- TYPE L-1 - ONLY FOR MEDIAN CROSSINGS
- TYPE L-2 - ONLY FOR MEDIAN CROSSINGS
- PEDESTRIAN PADS - USED FOR ACCESS TO PUSHBUTTONS WHERE THERE IS NO EXISTING SIDEWALK. THE INTENT IS TO PROVIDE ACCESS TO CROSS THE INTERSECTION IN BOTH DIRECTIONS WITHOUT ENTERING THE STREET TO ACCESS TO OTHER CROSSING. THE FOLLOWING IS THE ORDER OF PREFERENCE ON PEDESTRIAN PADS:
 1. PP-1 TWO CONNECTED RAMPS WITH UTILITY STRIP
 2. PP-2 TWO CONNECTED RAMPS WITH SIDEWALK AGAINST CURB
 3. PP-3 USED AS SINGLE SHARED RAMP THAT CAN ACCESS BOTH CROSSWALK LEGS AND THE PUSHBUTTON
 4. PP-3 USED TO ONLY ACCESS THE LEG OF THE INTERSECTION CONTROLLED BY THE PUSHBUTTON

4. RAMP RUNNING SLOPE: THE RUNNING SLOPE SHALL BE NO GREATER THAN 7.69%.

5. ALL JOINTS BETWEEN NEW AND EXISTING MATERIALS SHALL BE FLUSH.

6. LANDINGS:

- LANDINGS SHALL HAVE A MAXIMUM 1.56% SLOPE IN ALL DIRECTIONS FOR ALL CURB RAMP TYPES.
- A PARALLEL RAMP, CONSTRAINED ON TWO (2) SIDES, E.G., TYPE P-7, SHALL HAVE A LANDING 5-FT WIDE BY 5-FT DEEP A PARALLEL RAMP, CONSTRAINED ON ONE (1) SIDE, E.G., TYPES P-4, 5, & 6, SHALL HAVE A LANDING NO LESS THAN 4-FT MINIMUM BY 5-FT. THE 5-FT DIMENSION SHALL BE PROVIDED AS SHOWN IN THESE STANDARD DRAWINGS.

CURB RAMP GENERAL NOTES

CITY OF COLUMBUS, OHIO
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- ALL PERPENDICULAR RAMPS SHALL HAVE A LANDING NO LESS THAN 4-FT MINIMUM BY 4-FT. A PERPENDICULAR RAMP THAT IS CONSTRAINED AT THE BACK OF SIDEWALK SHALL HAVE A LANDING 4-FT BY 5-FT. THE 5-FT DIMENSION SHALL BE PROVIDED IN THE DIRECTION OF RAMP RUN, AS SHOWN IN THESE STANDARD DRAWINGS.
 - LANDING AT INTERSECTING SIDEWALKS - WHEREVER SIDEWALKS INTERSECT, THERE SHALL BE A LANDING.
7. STREET COUNTER SLOPE: THE COUNTER SLOPE AT THE BASE OF THE RAMP SHALL BE A MAXIMUM OF 5% FOR A MINIMUM OF 2-FT.
 8. CLEAR SPACE: AT MARKED CROSSINGS THE RAMP AND STREET CLEAR SPACE MUST BE FULLY CONTAINED WITHIN THE MARKED CROSSWALK. AT UNMARKED CROSSINGS THE RAMP AND CLEAR MUST BE WITHIN THE CURB RAMP DESIGN BOUNDARY.
 9. SURFACES: RAMP, FLARE, AND LANDING SURFACES MUST BE STABLE AND SLIP RESISTANT. RAMPS SHALL BE BROOM FINISHED, TRANSVERSE TO THE DIRECTION OF TRAVEL. GRATINGS, VALVE BOXES, AND UTILITY BOXES SHALL NOT BE LOCATED IN THE RAMP OR LANDING.
 10. DETECTABLE WARNINGS: DETECTABLE WARNINGS SHALL BE INSTALLED ACCORDING TO THESE STANDARD DRAWINGS, CMSC 608, AND DPS ADA RULES AND REGULATIONS.
 11. CURB WALLS MAY BE NECESSARY FOR CURB RAMP CONSTRUCTION WHERE SPACE RESTRICTION DO NOT ALLOW FOR GRADING WITHIN ROW AT A 3:1 SLOPE OR FLATTER. THE MAXIMUM HEIGHT OF 6" THICK, NON-REINFORCED CURB WALL IS 12" ABOVE THE SIDEWALK SURFACE. THE BURIED PORTION OF THE NON-REINFORCED CURB WALL SHALL BE EQUAL TO THE EXPOSED REVEAL. RETAINING EMBANKMENT TO A HEIGHT OF MORE THAN 12" ABOVE THE SIDEWALK WILL REQUIRE A DESIGNED RETAINING WALL OR CELLULAR WALL.
 12. RAMPS MUST BE CONSTRUCTED TO ALLOW FOR POSITIVE DRAINAGE. THE RAMP ITSELF SHALL NOT HOLD EXCESS WATER AND THE ADJACENT PAVEMENT SHALL NOT BE ALTERED TO INHIBIT FLOW OF WATER. IF AN EXISTING CONSTRAINT PREVENTS BUILDING THE RAMP AND ADJACENT AREA WITH POSITIVE DRAINAGE IT MUST BE BROUGHT TO THE CITY'S ATTENTION PRIOR TO CONSTRUCTION AND FINAL DESIGN APPROVED BY THE CITY.

CURB RAMP GENERAL NOTES

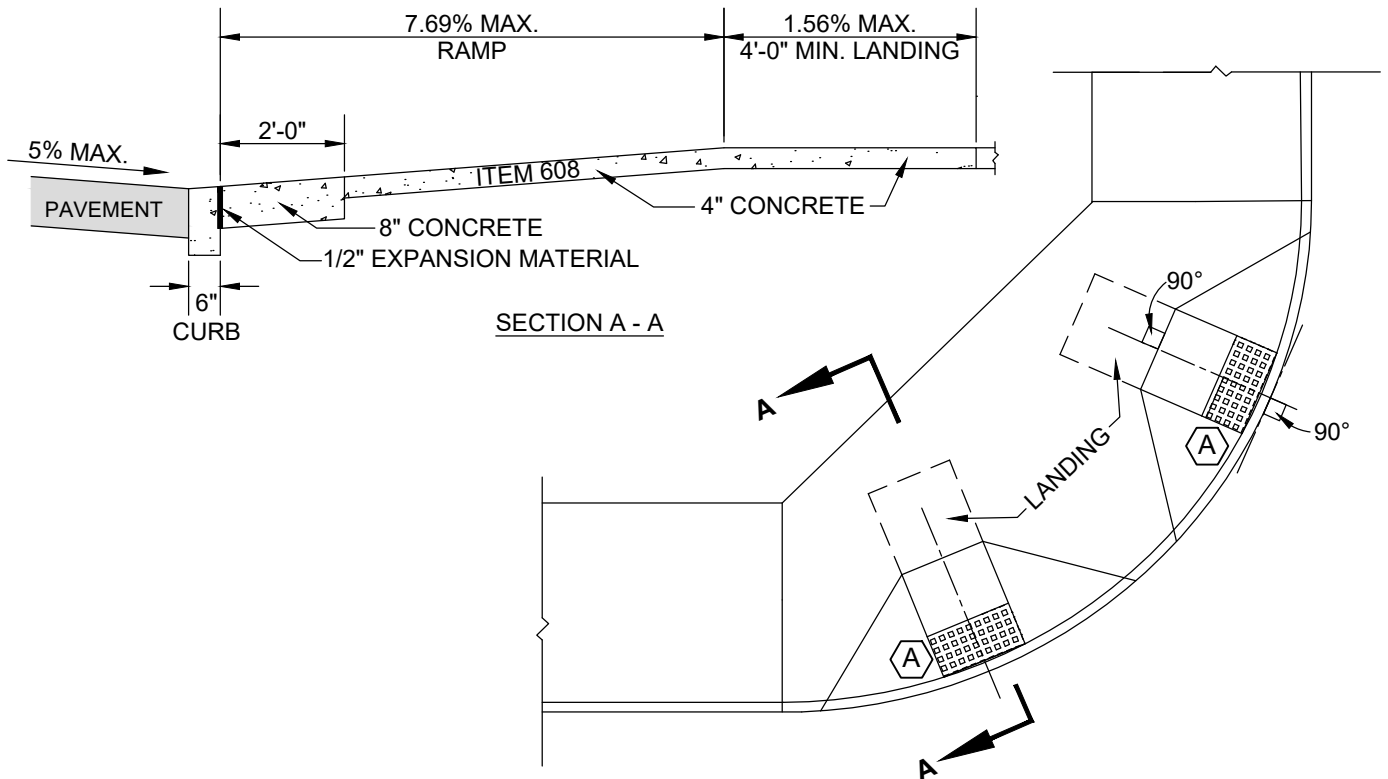
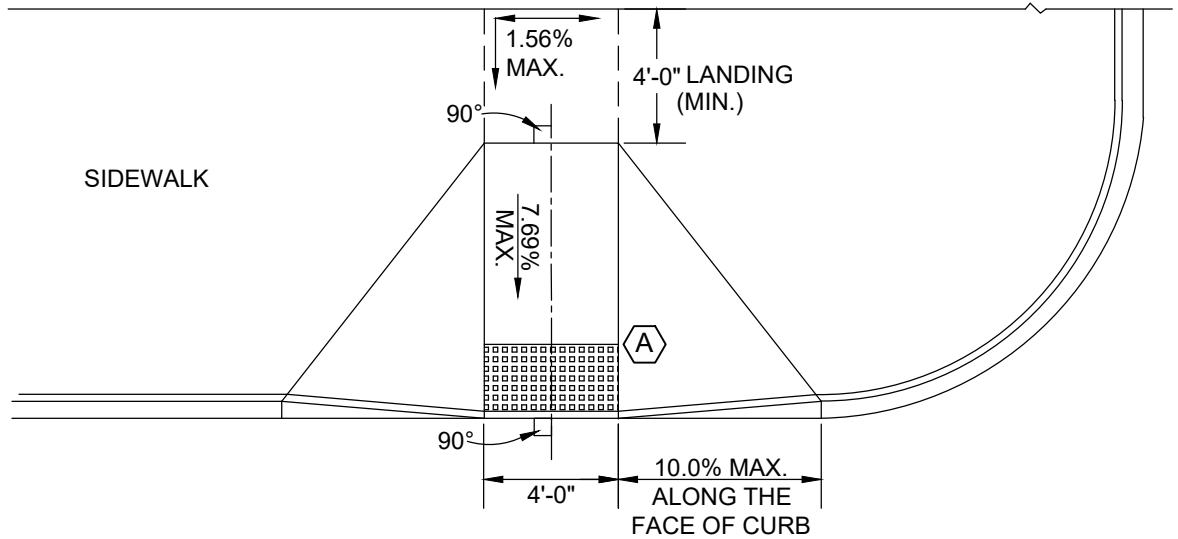
CITY OF COLUMBUS, OHIO
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CODED NOTES:

(A) SEE SHEET 21 FOR DETECTABLE WARNING DETAILS

GENERAL NOTES:

1. SEE SHEET 2 FOR ADDITIONAL DETAILED INFORMATION.

CURB RAMP TYPE A

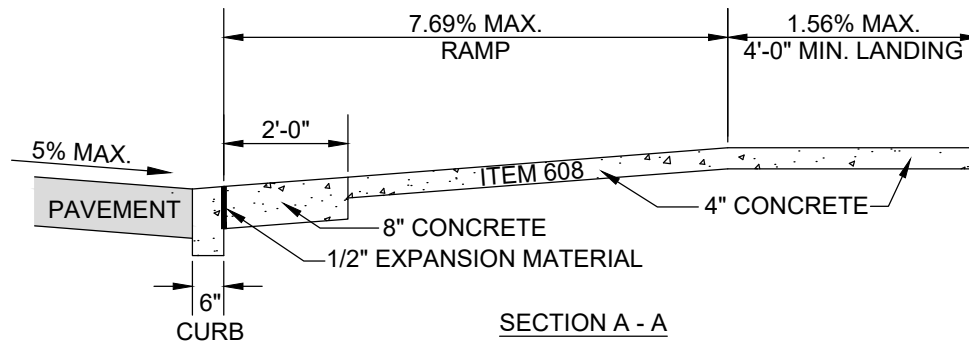
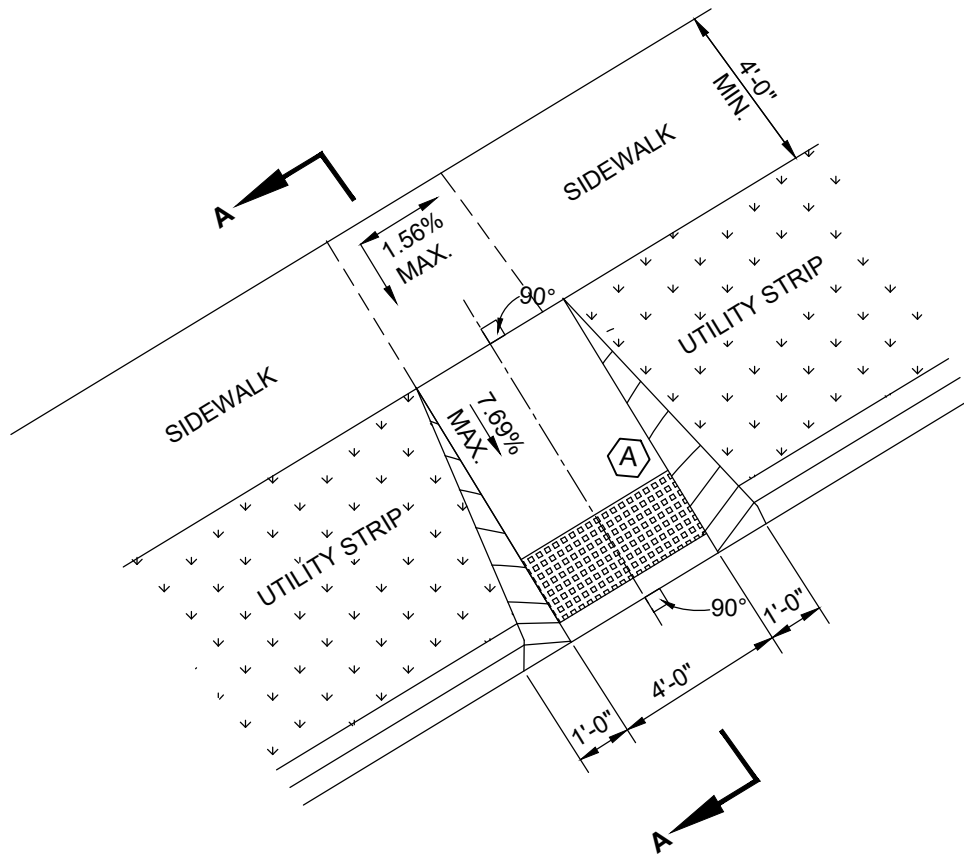
CITY OF COLUMBUS, OHIO
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CODING NOTES:

(A) SEE SHEET 21 FOR DETECTABLE WARNING DETAILS

GENERAL NOTES:

1. SEE SHEET 2 FOR ADDITIONAL DETAILED INFORMATION.

CURB RAMP TYPE C

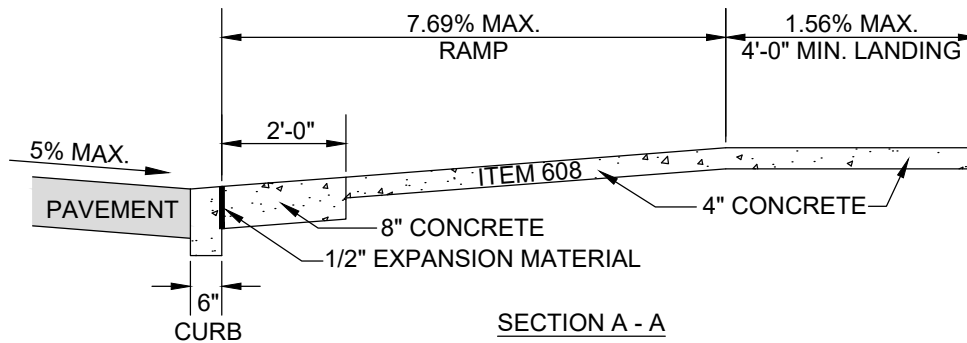
CITY OF COLUMBUS, OHIO
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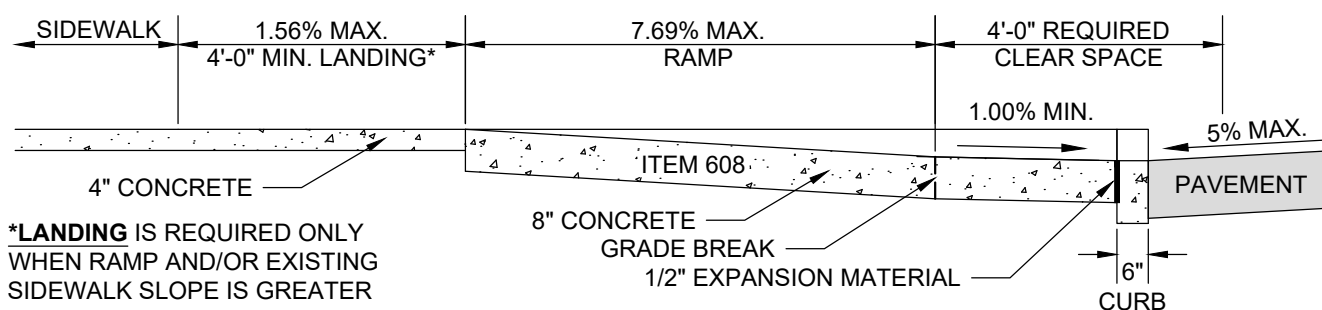
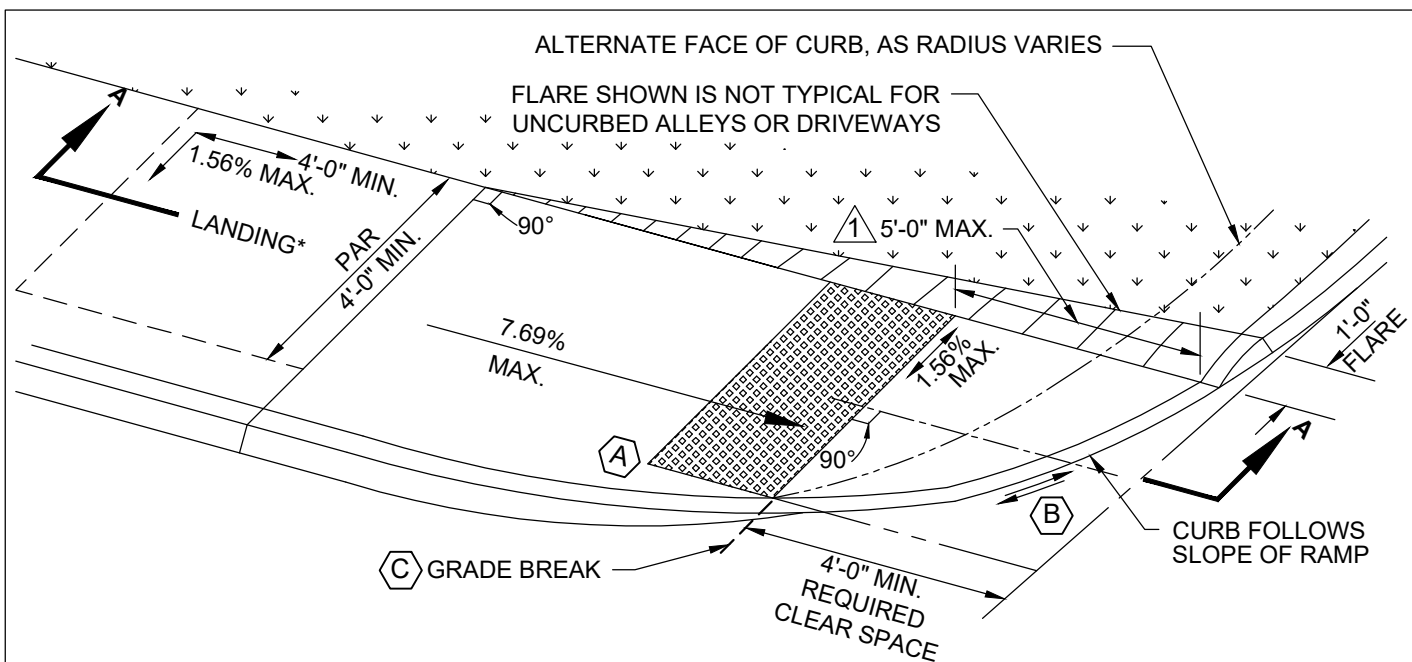
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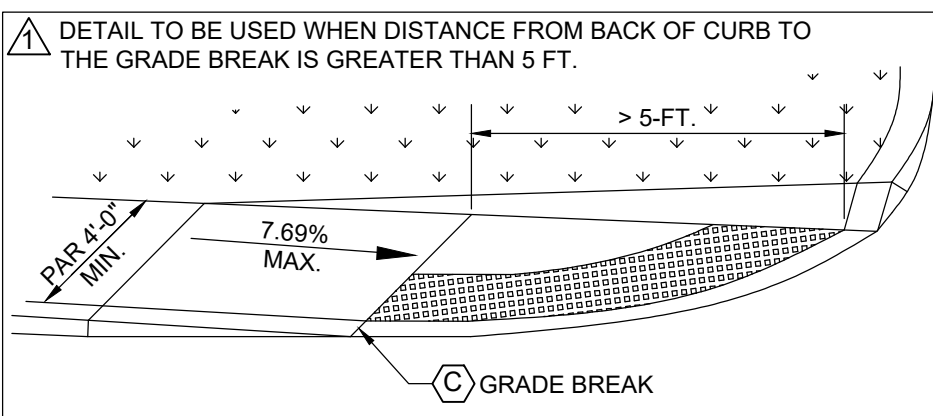


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*LANDING IS REQUIRED ONLY WHEN RAMP AND/OR EXISTING SIDEWALK SLOPE IS GREATER OR EQUAL TO 5%

SECTION A-A



CODED NOTES:

- (A) SEE SHEET 21 FOR DETECTABLE WARNING DETAILS
- (B) PROVIDE POSITIVE DRAINAGE ALONG CURBLINE, SHOULD BE 1.00% MINIMUM SLOPE
- (C) WHERE THE DISTANCE FROM EITHER END OF THE BOTTOM OF THE GRADE BREAK TO THE BACK OF CURB IS GREATER THAN 5-FT, THE DETECTABLE WARNING SHALL BE PLACED AT THE BACK OF CURB

GENERAL NOTES:

1. SEE SHEET 2 FOR ADDITIONAL DETAILED INFORMATION.
2. THE EDGE OF THE CURB WITHIN THE CLEAR SPACE SHALL BE FLUSH WITH THE EDGE OF THE ADJACENT PAVEMENT AND GUTTER.

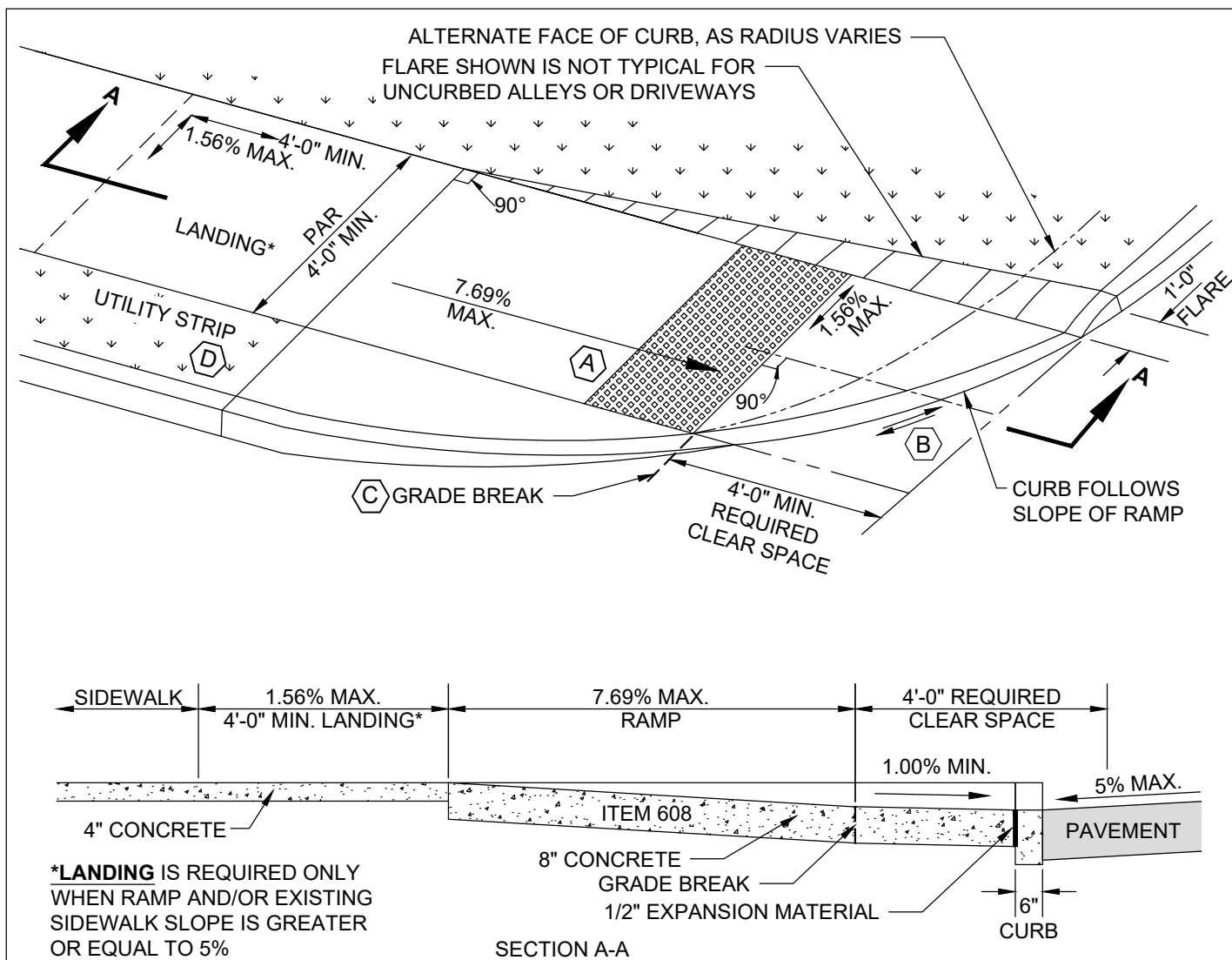
CURB RAMP TYPE G

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2319

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CODED NOTES:

- (A) SEE SHEET 21 FOR DETECTABLE WARNING DETAILS
- (B) PROVIDE POSITIVE DRAINAGE ALONG CURBLINE, SHOULD BE 1.00% MINIMUM SLOPE
- (C) WHERE THE DISTANCE FROM EITHER END OF THE BOTTOM OF THE GRADE BREAK TO THE BACK OF CURB IS GREATER THAN 5-FT, THE DETECTABLE WARNING SHALL BE PLACED AT THE BACK OF CURB
- (D) FOR THE LENGTH OF THE RAMP, THE UTILITY STRIP MAY BE REMOVED AND REPLACED WITH 8" CONCRETE (ITEM 608), PROVIDED THE UTILITY STRIP IS NO WIDER THAN 2-FT

GENERAL NOTES:

1. SEE SHEET 2 FOR ADDITIONAL DETAILED INFORMATION.
2. THE EDGE OF THE CURB WITHIN THE CLEAR SPACE SHALL BE FLUSH WITH THE EDGE OF THE ADJACENT PAVEMENT AND GUTTER.

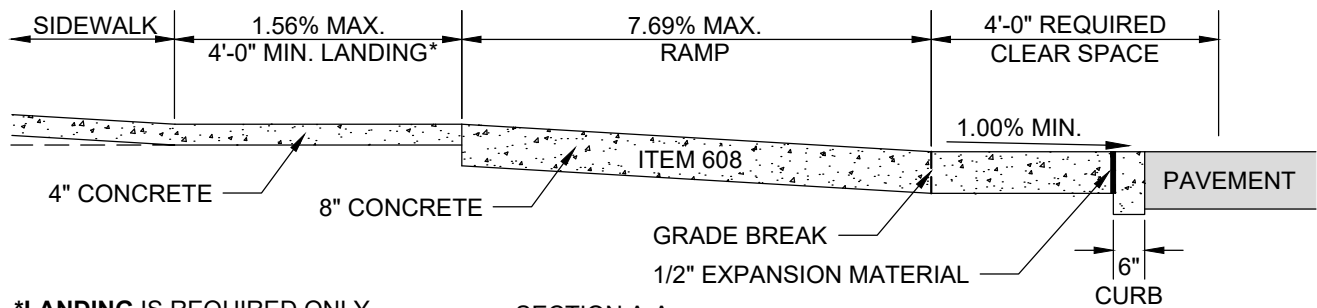
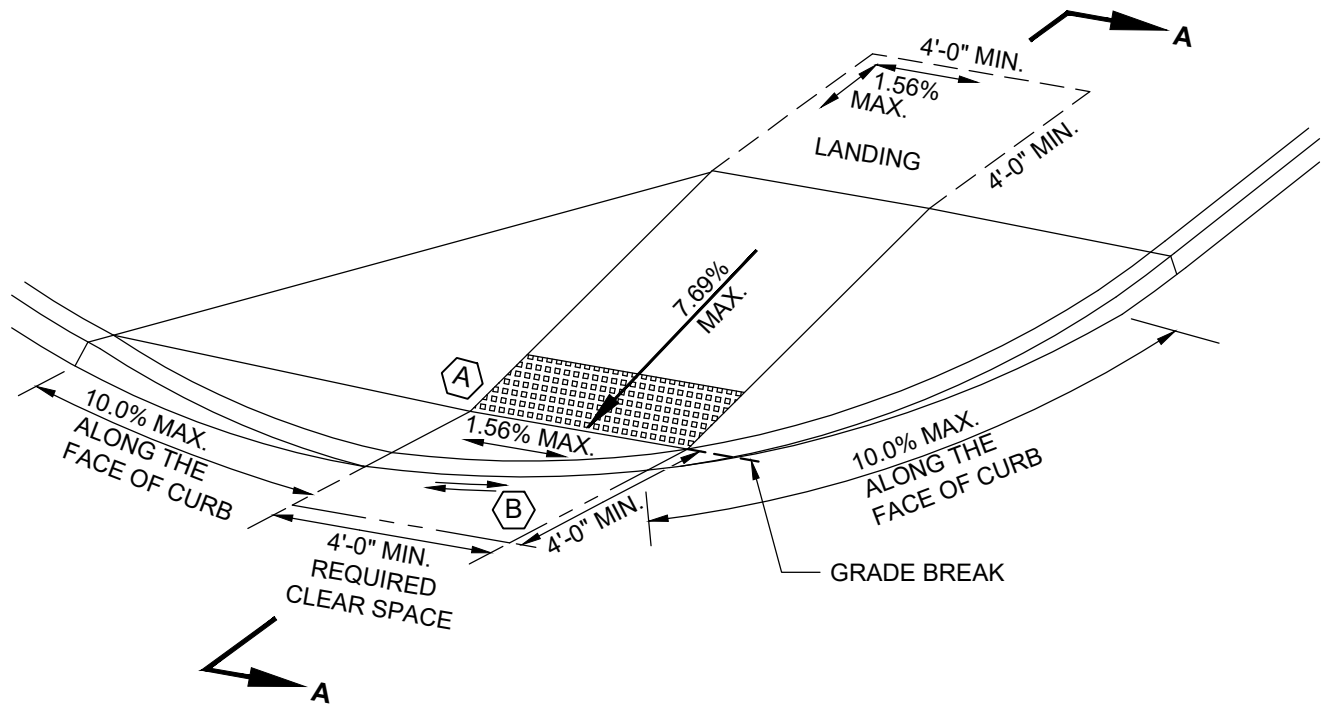
CURB RAMP TYPE H

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***LANDING** IS REQUIRED ONLY WHEN RAMP AND/OR EXISTING SIDEWALK SLOPE IS GREATER OR EQUAL TO 5%

SECTION A-A

CODING NOTES:

- (A) SEE SHEET 21 FOR DETECTABLE WARNING DETAILS
- (B) PROVIDE POSITIVE DRAINAGE ALONG CURBLINE, SHOULD BE 1.00% MINIMUM SLOPE

GENERAL NOTES:

1. SEE SHEET 2 FOR ADDITIONAL DETAILED INFORMATION.
2. THE EDGE OF THE CURB WITHIN THE CLEAR SPACE SHALL BE FLUSH WITH THE EDGE OF THE ADJACENT PAVEMENT AND GUTTER.

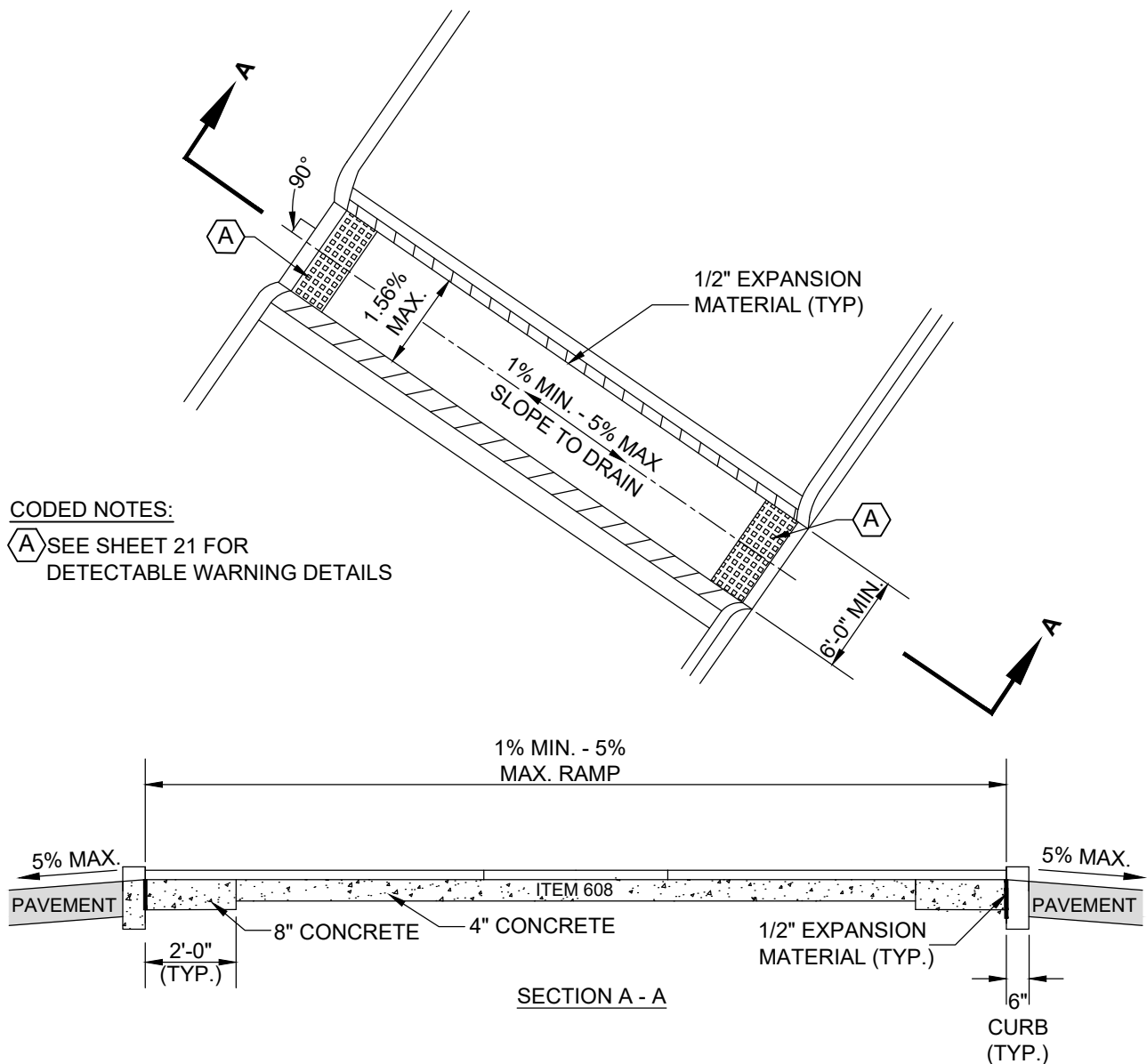
CURB RAMP TYPE J

CITY OF COLUMBUS, OHIO
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2319

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GENERAL NOTES:

1. SEE SHEET 2 FOR ADDITIONAL DETAILED INFORMATION.
2. RAMP L-1 SHALL BE USED IN ALL CIRCUMSTANCES WHERE NOT PROHIBITED BY DRAINAGE ISSUES. AN L-1 RAMP SHOULD NOT BE PLACED IN A WAY THAT WOULD CONVEY THE CURB FLOW OF WATER THROUGH THE MEDIAN PASSTHROUGH. WHERE THE ROADWAY CROSS-SLOPE DIRECTS WATER TOWARDS THE MEDIAN AND FLOWS THROUGH THE GUTTER LINE ADJACENT TO THE PASSTHROUGH, USE AN L-2 RAMP.
3. MEDIANS / ISLANDS WITHIN COMMERCIAL DRIVES REQUIRE DETECTABLE WARNINGS ONLY WHEN OPPOSING CURB RAMPS REQUIRE DETECTABLE WARNINGS. (SEE SHEET 21 OF 21, NOTE 1)

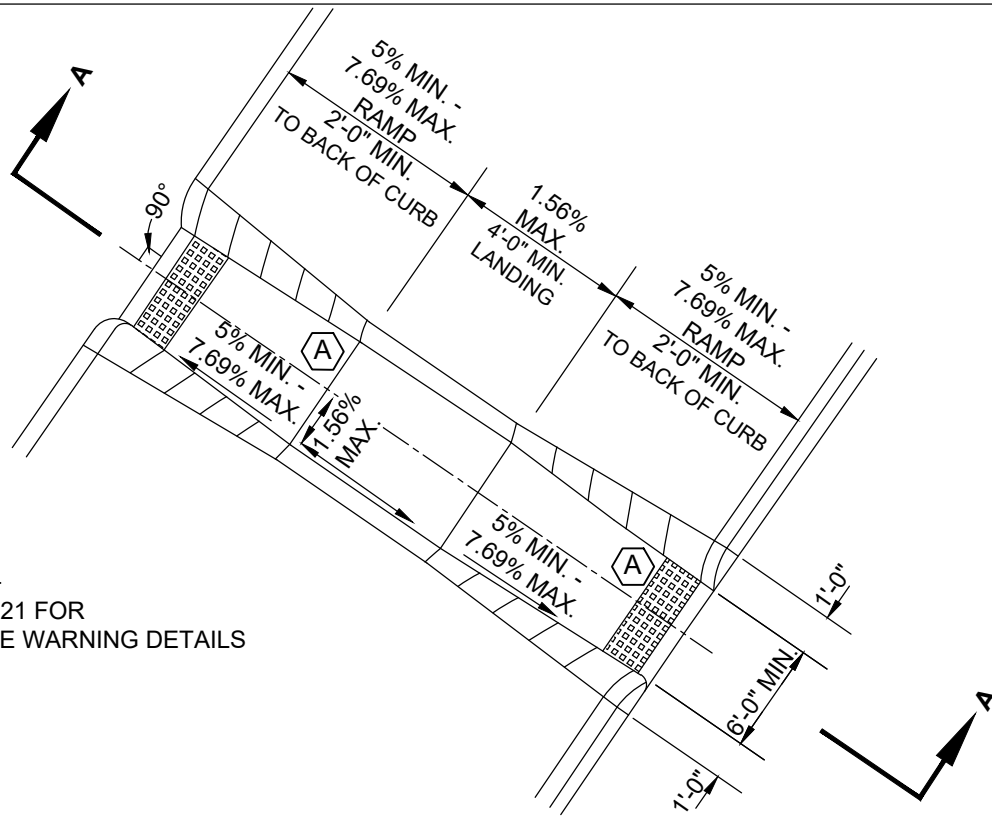
CURB RAMP TYPE L-1

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
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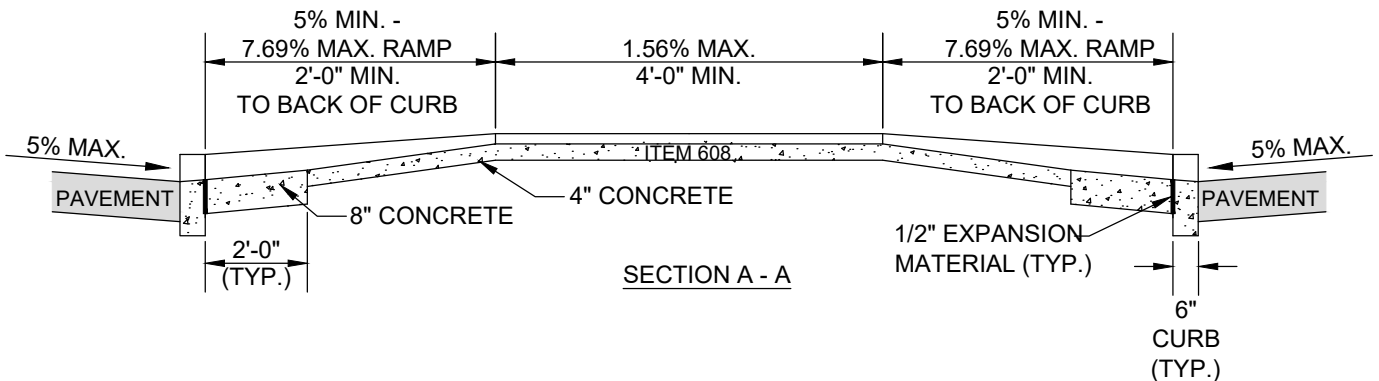
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CODING NOTES:

A SEE SHEET 21 FOR
DETECTABLE WARNING DETAILS



GENERAL NOTES:

1. SEE SHEET 2 FOR ADDITIONAL DETAILED INFORMATION.
2. MEDIANS / ISLANDS WITHIN COMMERCIAL DRIVES REQUIRE DETECTABLE WARNINGS ONLY WHEN OPPOSING CURB RAMPS REQUIRE DETECTABLE WARNINGS. (SEE SHEET 21 OF 21, NOTE 1).
3. TYPE L-2 RAMPS ARE ONLY TO BE INSTALLED WHEN IT IS NOT POSSIBLE TO INSTALL A TYPE L-1 RAMP DUE TO DRAINAGE ISSUES.
4. TYPE L-2 RAMPS CAN ONLY BE USED ON MEDIANS 8 FEET WIDE OR MORE.

CURB RAMP TYPE L-2

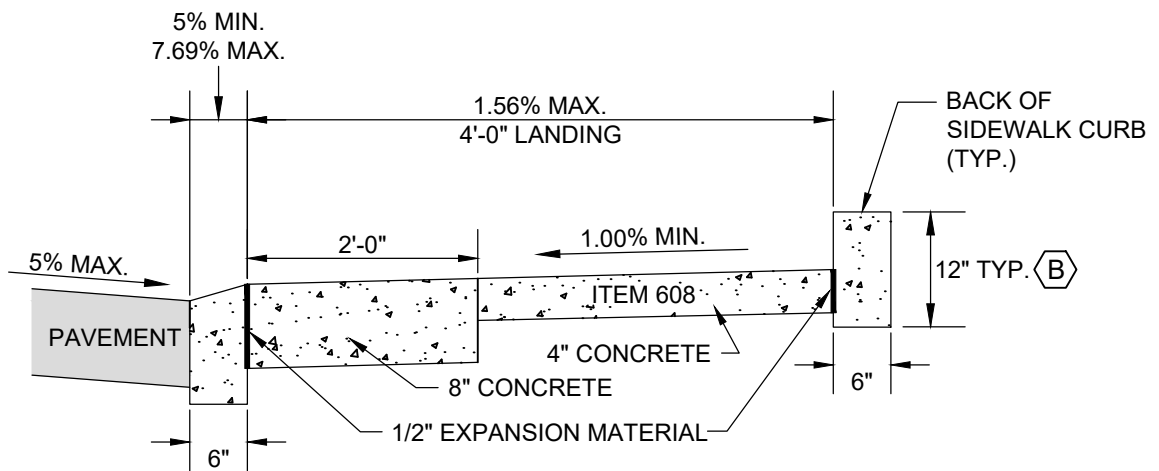
CITY OF COLUMBUS, OHIO
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DIVISION OF DESIGN AND CONSTRUCTION

STD DWG

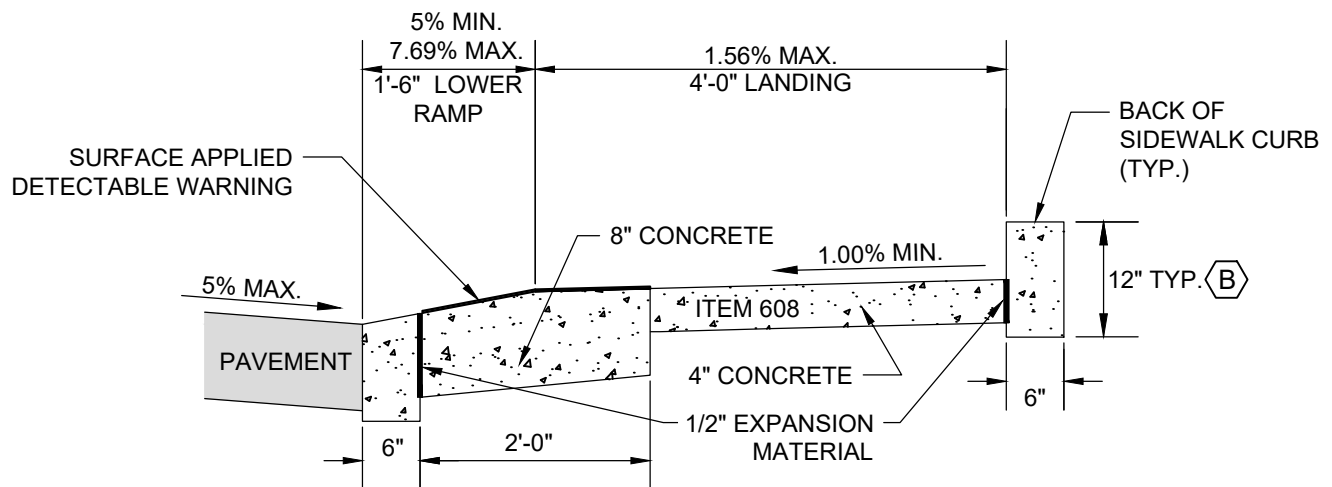
2319

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SHT 11 OF 21



SHT 12 OF 21



SECTION A-A

CODED NOTES:

- A** SEE SHEET 21 FOR DETECTABLE WARNING DETAILS
- B** EXPOSED REVEAL MUST EQUAL BURIED DEPTH;
12" MAXIMUM REVEAL; FOR ADDITIONAL DETAILS
SEE CURB WALL SPECIFICATION

GENERAL NOTES:

1. SEE SHEET 2 FOR ADDITIONAL DETAILED INFORMATION.

CURB RAMP TYPE P-5

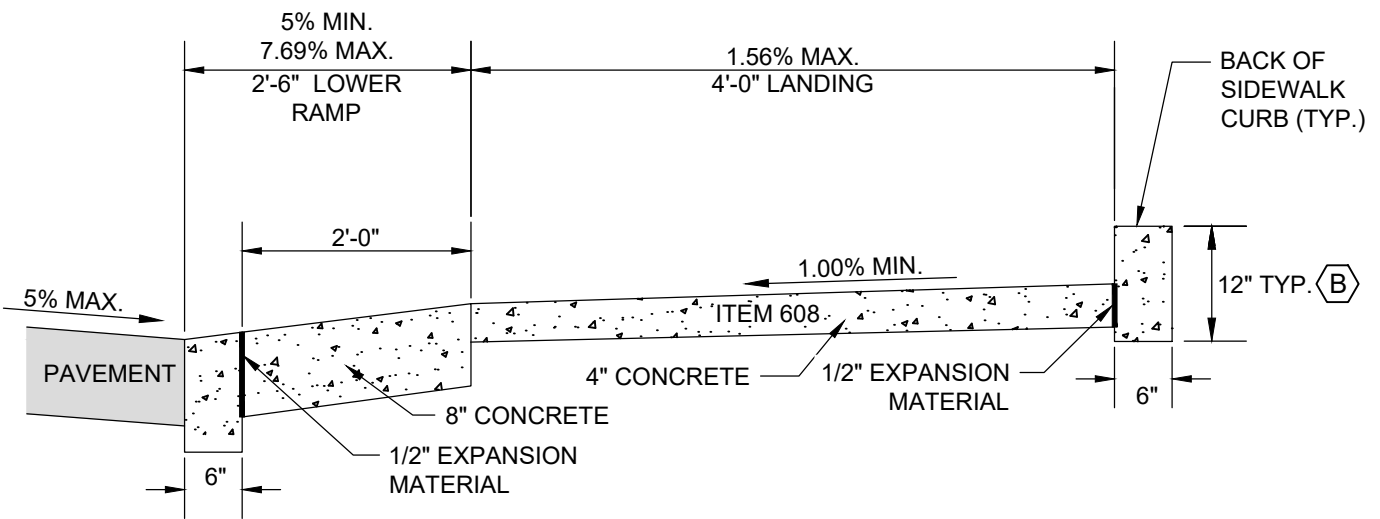
CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

STD DWG

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SECTION A-A

CODED NOTES:

- A** SEE SHEET 21 FOR DETECTABLE WARNING DETAILS
- B** EXPOSED REVEAL MUST EQUAL BURIED DEPTH;
12" MAXIMUM REVEAL; FOR ADDITIONAL DETAILS
SEE CURB WALL SPECIFICATION

GENERAL NOTES:

1. SEE SHEET 2 FOR ADDITIONAL DETAILED INFORMATION.

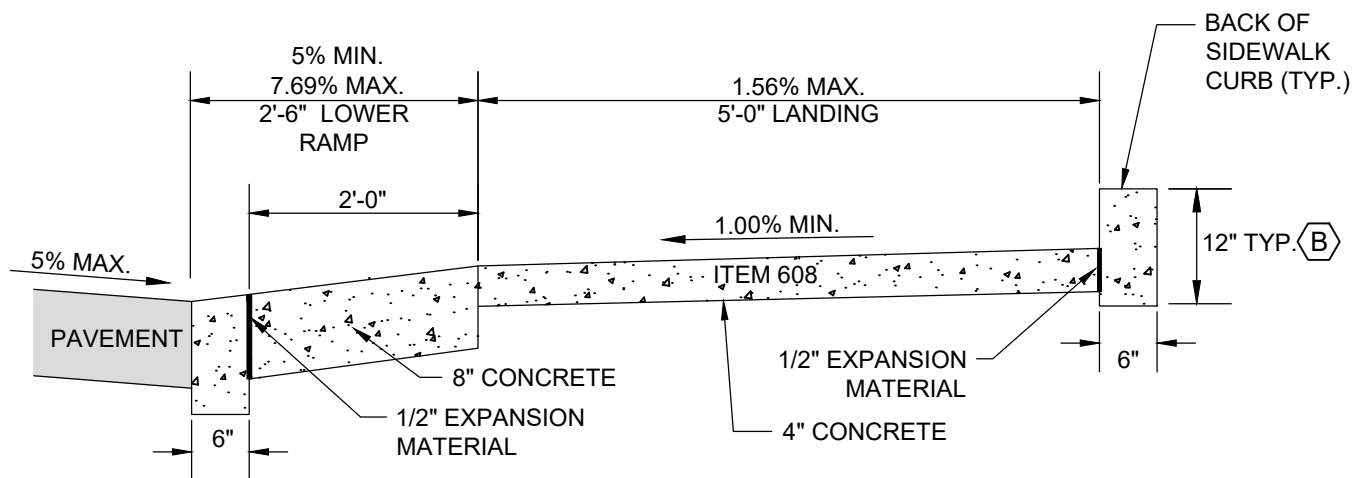
CURB RAMP TYPE P-6

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SECTION A-A

CODED NOTES:

- A** SEE SHEET 21 FOR DETECTABLE WARNING DETAILS
- B** EXPOSED REVEAL MUST EQUAL BURIED DEPTH;
12" MAXIMUM REVEAL; FOR ADDITIONAL DETAILS
SEE CURB WALL SPECIFICATION

GENERAL NOTES:

1. SEE SHEET 2 FOR ADDITIONAL DETAILED INFORMATION.

CURB RAMP TYPE P-7

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TRANSPORTATION DIVISION

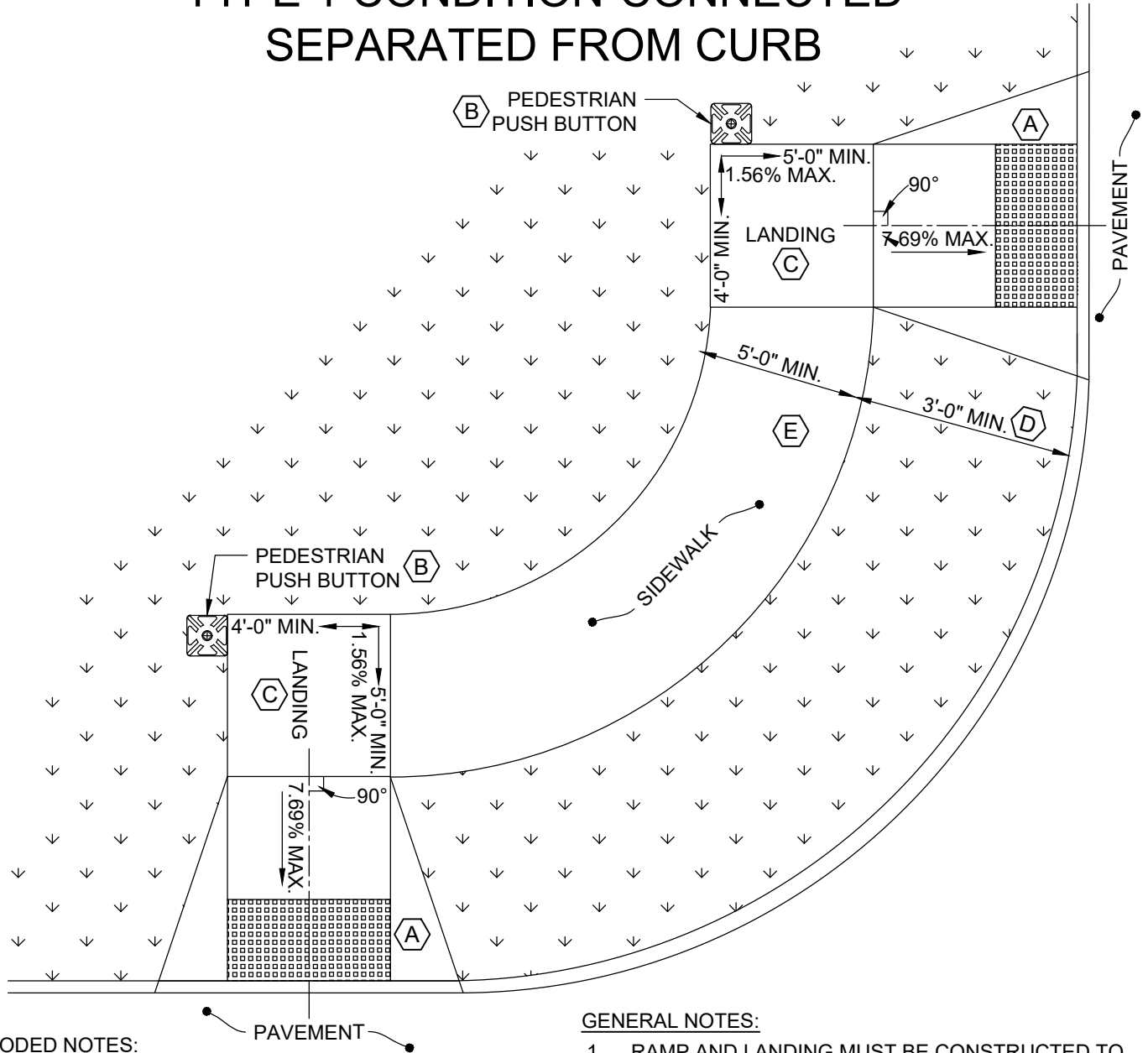
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PEDESTRIAN PAD (PP) TYPE 1 CONDITION-CONNECTED SEPARATED FROM CURB



CODED NOTES:

- (A)** USE 1-FT FLARES ON CURBED ROADWAY. ON UNCURBED ROADWAY RAMP SHALL BE CONSTRUCTED WITHOUT FLARES, SEE STANDARD DRAWING FOR DETECTABLE WARNING PLACEMENT DETAILS. THE FRONT TWO FEET OF THE RAMP AND FLARES SHALL BE CONSTRUCTED USING CONCRETE 8" THICK AND TRANSITIONING TO 4" CONCRETE FURTHER THAN 2 FEET FROM THE BACK OF THE CURB
- (B)** ORIENTATION/LOCATION OF PUSH BUTTON/PEDESTAL TO BE PER POLICY
- (C)** LANDING SHALL BE 5-FT BY 5-FT WHEN SURROUNDED BY CURB WALL, AND THE PEDESTRIAN PUSH BUTTON SHALL BE INTEGRAL WITH THE CURB WALL
- (D)** IF UTILITY STRIP IS LESS THAN 3-FT, SIDEWALK SHALL BE CONSTRUCTED ADJACENT TO CURB, SEE PP-2
- (E)** SIDEWALK WIDTH AND LANDING DEPTH MAY BE REDUCED TO 4' DUE TO CONSTRAINTS.

GENERAL NOTES:

1. RAMP AND LANDING MUST BE CONSTRUCTED TO DRAIN, TYPICALLY TOWARDS THE ROADWAY, BUT MAY VARY BASED ON EXISTING TOPOGRAPHY. WEEP HOLES ARE NOT PERMITTED FOR DRAINAGE.
2. SEE SHEET 2 FOR ADDITIONAL DETAILED INFORMATION.

CURB RAMP TYPE PP-1

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2319

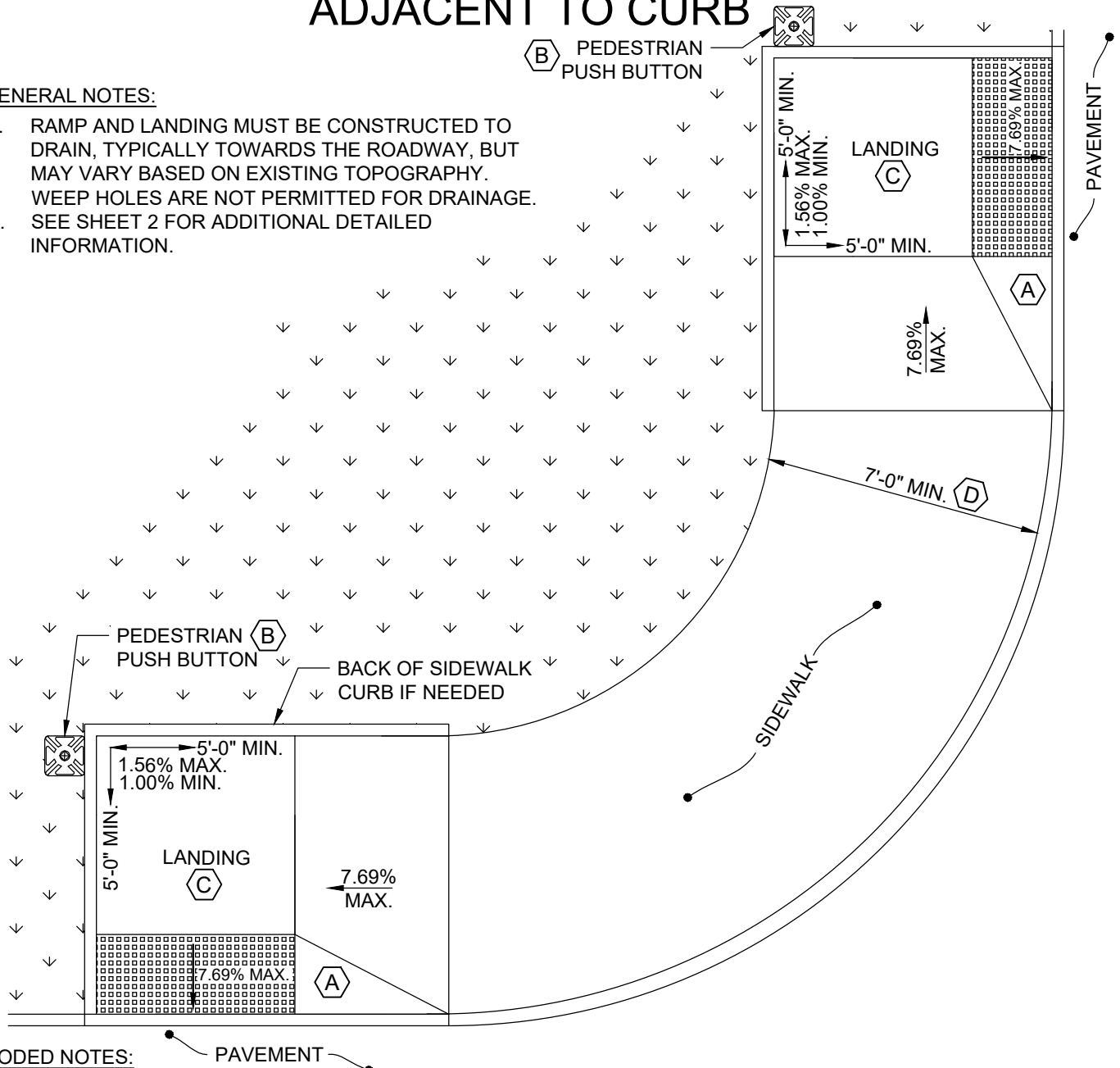
3/30/2018

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PEDESTRIAN PAD (PP) TYPE 2 CONDITION-CONNECTED ADJACENT TO CURB

GENERAL NOTES:

1. RAMP AND LANDING MUST BE CONSTRUCTED TO DRAIN, TYPICALLY TOWARDS THE ROADWAY, BUT MAY VARY BASED ON EXISTING TOPOGRAPHY. WEEP HOLES ARE NOT PERMITTED FOR DRAINAGE.
2. SEE SHEET 2 FOR ADDITIONAL DETAILED INFORMATION.



CODING NOTES:

- (A) SEE SHEET 21 FOR DETECTABLE WARNING DETAILS. THE FRONT TWO FEET OF THE RAMP AND FLARES SHALL BE CONSTRUCTED USING CONCRETE 8" THICK AND TRANSITIONING TO 4" CONCRETE FURTHER THAN 2 FEET FROM THE BACK OF THE CURB
- (B) ORIENTATION/LOCATION OF PUSH BUTTON/PEDESTAL TO BE PER POLICY
- (C) WIDTH OF THE RAMP AND LANDING MAY BE REDUCED TO 4-FT WHERE NO CURB WALL IS PRESENT
- (D) SIDEWALK WIDTH MAY BE REDUCED TO 5-FT MIN. WHEN CONSTRAINED. SEE RAMP TYPE P-4, SECTION A-A FOR RAMP AND LANDING

CURB RAMP TYPE PP-2

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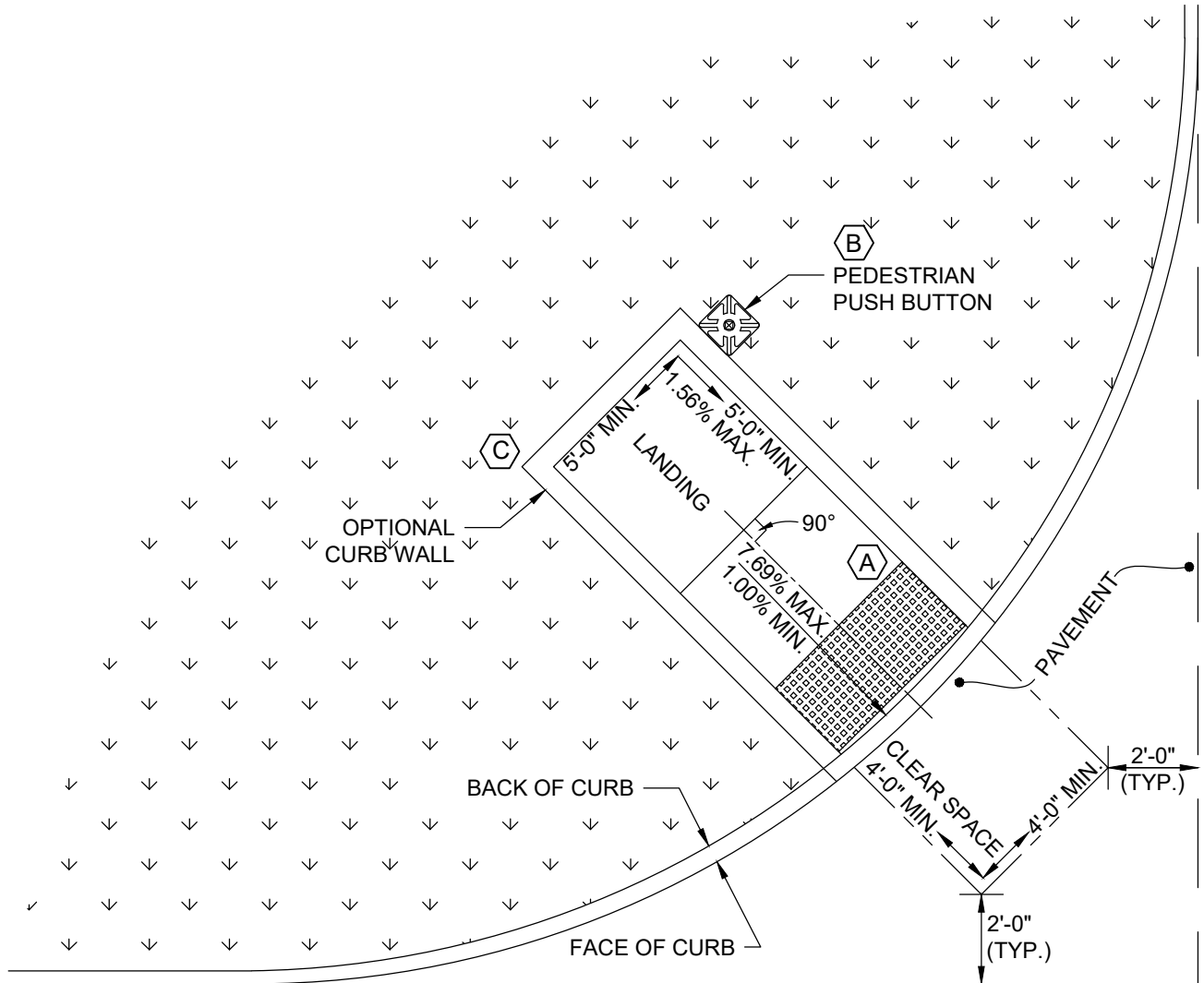
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PEDESTRIAN PAD (PP) TYPE 3 CONDITION-SHARED CURB IS PRESENT



CODED NOTES:

- (A)** SEE SHEET 21 FOR DETECTABLE WARNING DETAILS. THE FRONT TWO FEET OF THE RAMP AND FLARES SHALL BE CONSTRUCTED USING CONCRETE 8" THICK AND TRANSITIONING TO 4" CONCRETE FURTHER THAN 2 FEET FROM THE BACK OF THE CURB
- (B)** ORIENTATION/LOCATION OF PUSH BUTTON/PEDESTAL TO BE PER POLICY
- (C)** CURB WALL MAY BE NECESSARY BASED ON EXISTING TOPOGRAPHY. IF CURB WALL IS NOT CONSTRUCTED, THE LANDING WIDTH CAN BE REDUCED TO 4'x4'.

GENERAL NOTES:

1. RAMP AND LANDING MUST BE CONSTRUCTED TO DRAIN, TYPICALLY TOWARDS THE ROADWAY, BUT MAY VARY BASED ON EXISTING TOPOGRAPHY. WEEP HOLES ARE NOT PERMITTED FOR DRAINAGE.
2. SEE SHEET 2 FOR ADDITIONAL DETAILED INFORMATION.

CURB RAMP TYPE PP-3

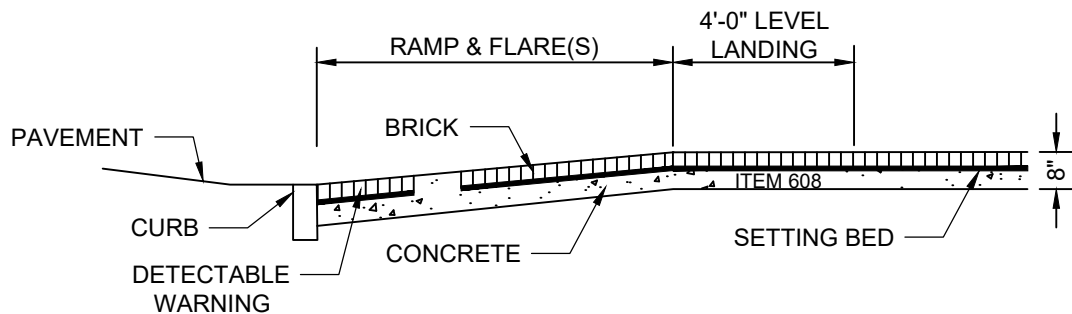
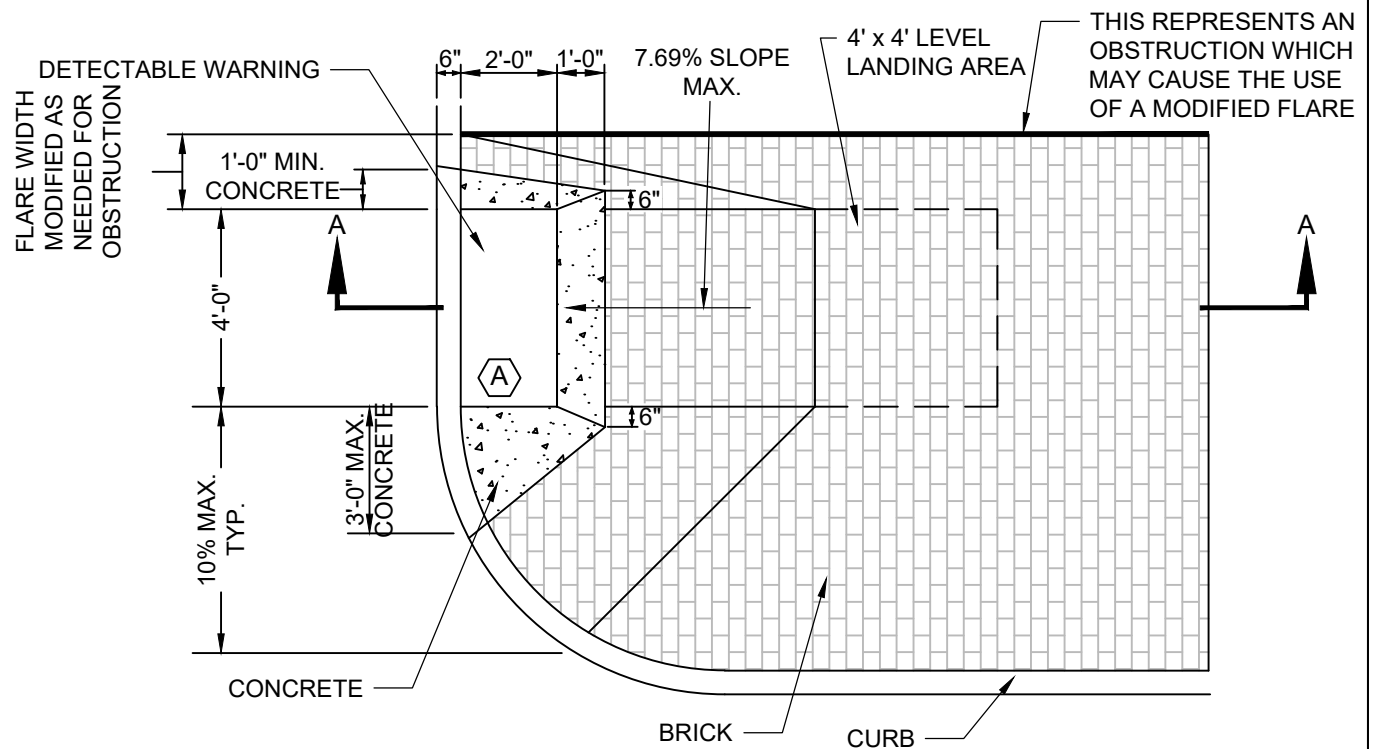
CITY OF COLUMBUS, OHIO
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STD DWG

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SECTION A-A

1. WRITTEN APPROVAL FROM THE CITY ENGINEER OR AN AUTHORIZED REPRESENTATIVE SHALL BE OBTAINED PRIOR TO THE DESIGN OR CONSTRUCTION OF GRANITE OR AN ALTERNATE MATERIAL CURB RAMP.
2. ALONG WITH THE REQUIREMENT OF THIS SHEET FOR BRICK OR GRANITE CURB RAMPS, ALL OTHER APPLICABLE REQUIREMENTS OF 2319 SHALL BE FOLLOWED.
3. BRICK OR GRANITE CURB RAMPS SHALL BE TYPED PER 2319. TYPICALLY TYPE A OR TYPE D WILL BE USED. ALL APPLICABLE DIMENSIONS AND REQUIREMENTS FOR THE SELECTED TYPE OF RAMP SHALL BE FOLLOWED.
4. LONG FLARES WILL BE USED WHEREVER POSSIBLE. A MODIFIED FLARE SHALL BE USED WHEN AN OBSTRUCTION EXISTS.
5. THE INSTALLATION OF THE BRICK OR GRANITE PAVERS SHALL BE DONE PER STD DWG 2301, BRICK SIDEWALK.

CODING NOTES:

 SEE SHEET 21 FOR DETECTABLE WARNING DETAILS

PERPENDICULAR CURB RAMP BRICK SIDEWALK

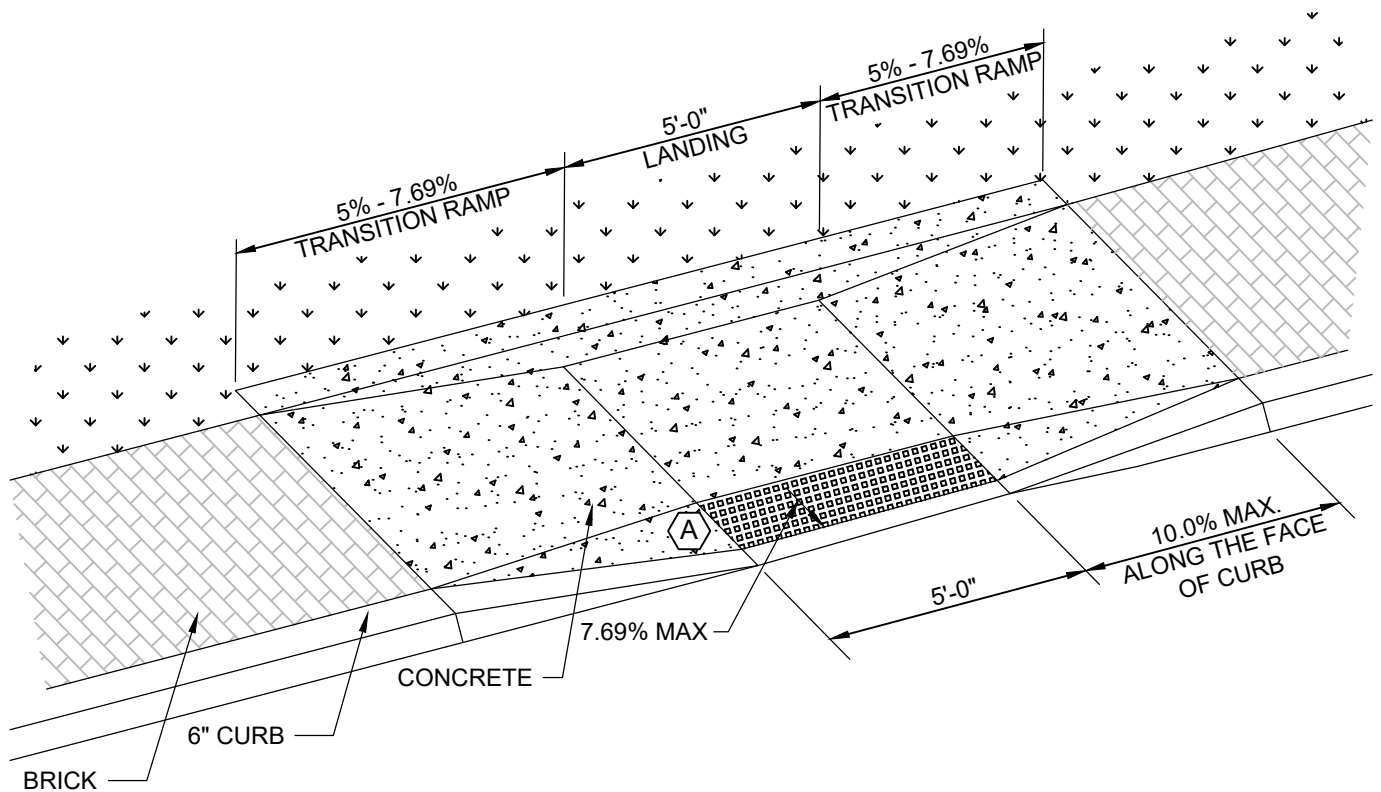
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1. WRITTEN APPROVAL FROM THE CITY ENGINEER OR AN AUTHORIZED REPRESENTATIVE SHALL BE OBTAINED PRIOR TO THE DESIGN OR CONSTRUCTION OF GRANITE OR AN ALTERNATE MATERIAL CURB RAMP.
2. ALONG WITH THE REQUIREMENT OF THIS SHEET FOR BRICK OR GRANITE CURB RAMPS, ALL OTHER APPLICABLE REQUIREMENTS OF 2319 SHALL BE FOLLOWED.
3. BRICK OR GRANITE CURB RAMPS SHALL BE TYPED PER 2319. TYPICALLY TYPE A OR TYPE D WILL BE USED. ALL APPLICABLE DIMENSIONS AND REQUIREMENTS FOR THE SELECTED TYPE OF RAMP SHALL BE FOLLOWED.
4. LONG FLARES WILL BE USED WHEREVER POSSIBLE. A MODIFIED FLARE SHALL BE USED WHEN AN OBSTRUCTION EXISTS.
5. THE INSTALLATION OF THE BRICK OR GRANITE PAVERS SHALL BE DONE PER STD DWG 2301, BRICK SIDEWALK.

CODED NOTES:

A SEE SHEET 21 FOR DETECTABLE WARNING DETAILS

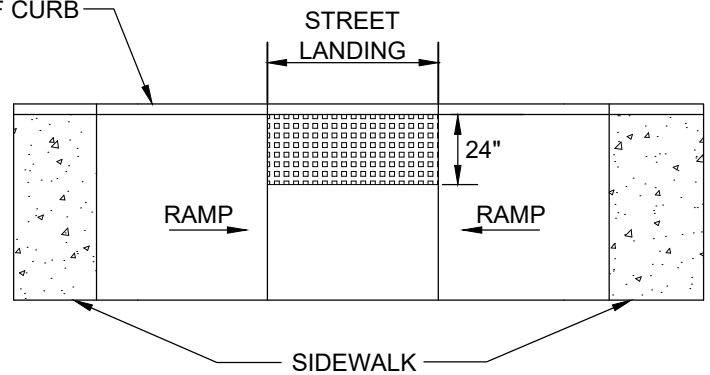
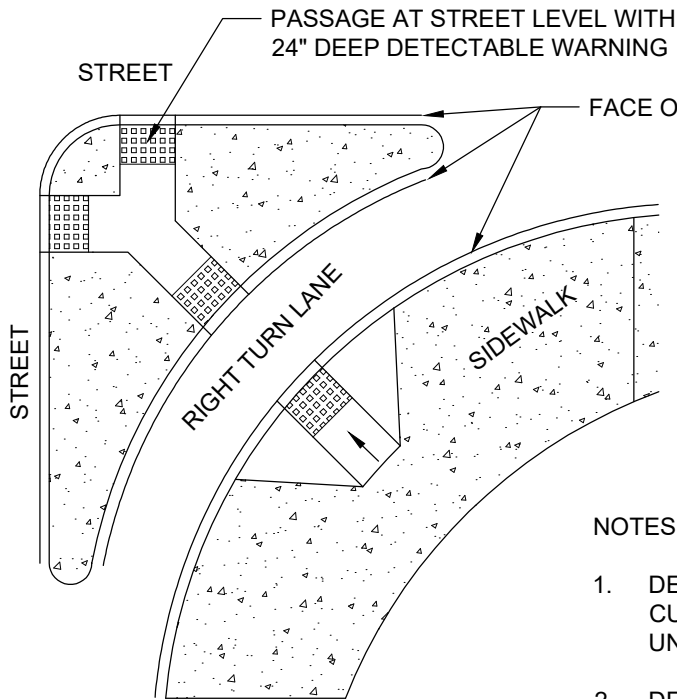
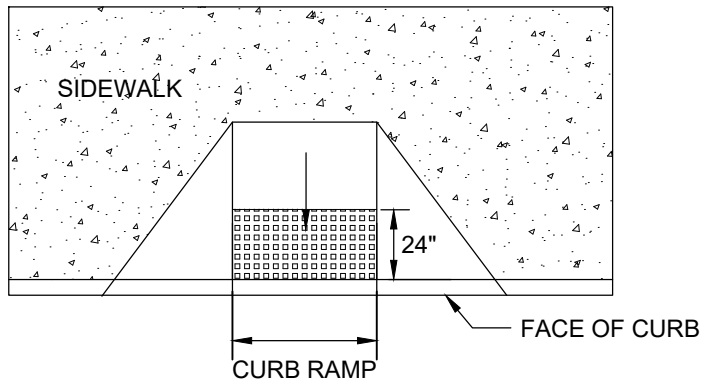
PARALLEL CURB RAMP BRICK SIDEWALK

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DIVISION OF DESIGN AND CONSTRUCTION

STD DWG
2319

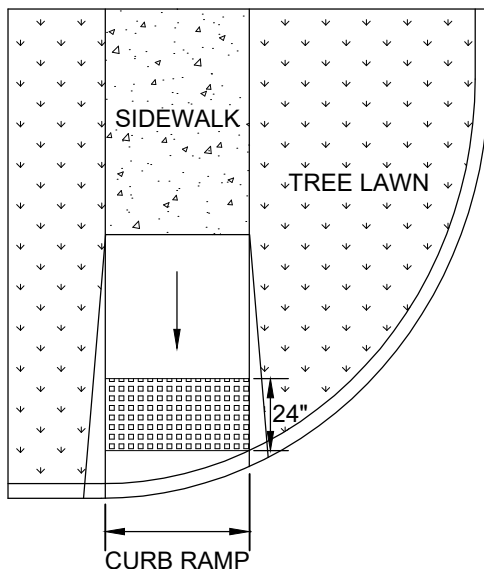
3/30/2018

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NOTES:

1. DETECTABLE WARNINGS SHALL BE PROVIDED WHEREVER A CURB RAMP CROSSES A VEHICULAR WAY. EXCLUDING UNSIGNALIZED DRIVEWAY CROSSINGS.
2. DETECTABLE WARNINGS SHALL BE PROVIDED 24" IN THE DIRECTION OF TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE. THE DETECTABLE WARNING SHALL BE LOCATED ADJACENT TO THE CURB LINE.
3. MATERIALS SHALL COMPLY WITH CMSC 608 AND DPS ADA RULES AND REGULATIONS.
4. DETECTABLE WARNINGS SHALL BE PLACED 6" TO 8" BEHIND THE FACE OF CURB AND BEHIND THE CURB JOINT.
5. CAST IN PLACE OR ANY NON-SURFACE APPLIED DETECTABLE WARNING SHALL HAVE A MINIMUM OF 3" OF CONCRETE ON EACH SIDE OF THE WARNING.



CURB RAMP DETECTABLE WARNINGS

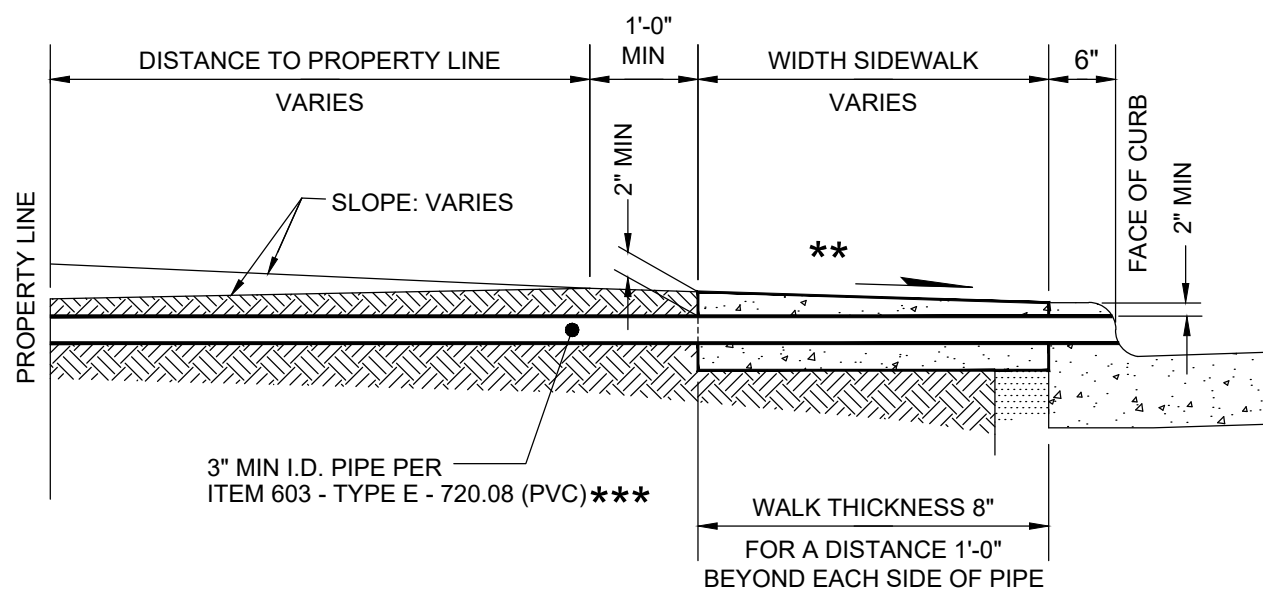
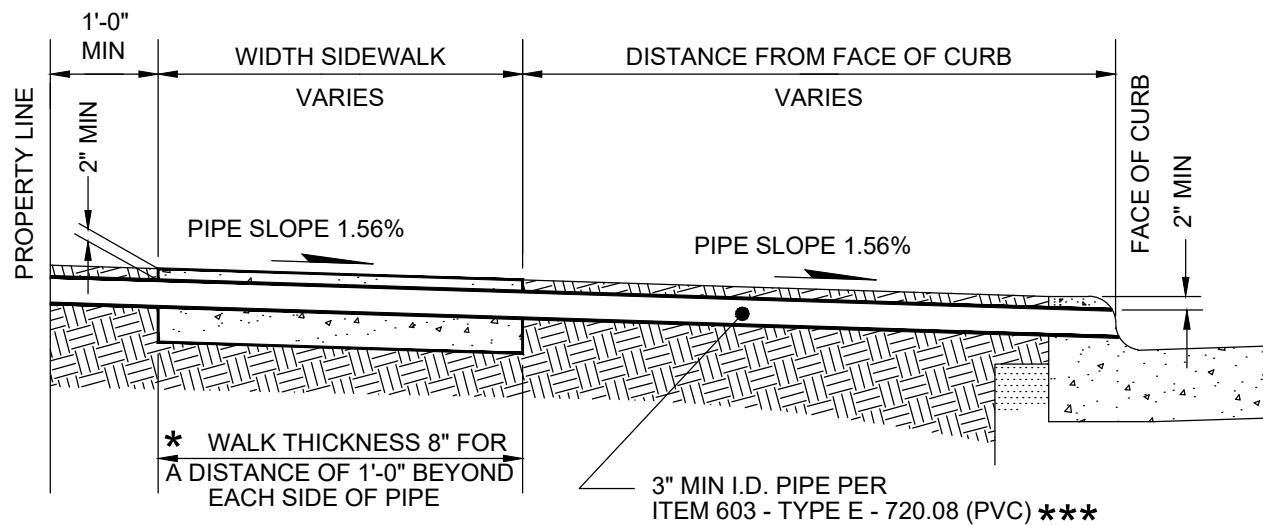
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* APPLICABLE ONLY WHERE THICKNESS OF CONCRETE OVER PIPE IS LESS THAN 4".

** SLOPE 1.56% ON SIDEWALK AREA.

*** IF THERE IS EXISTING ROOF DRAIN PIPE, THEN MATCH EXISTING SIZE.
IF EXISTING ROOF DRAIN IS LARGER THAN 3", RUN SMALLER PARALLEL PIPES
TO MAINTAIN 3" PIPE AT FACE OF CURB.

MOUNTABLE CURB SHALL BE CORE DRILLED ONLY FOR ROOF DRAIN OPENING.

PIPE ROOF DRAIN

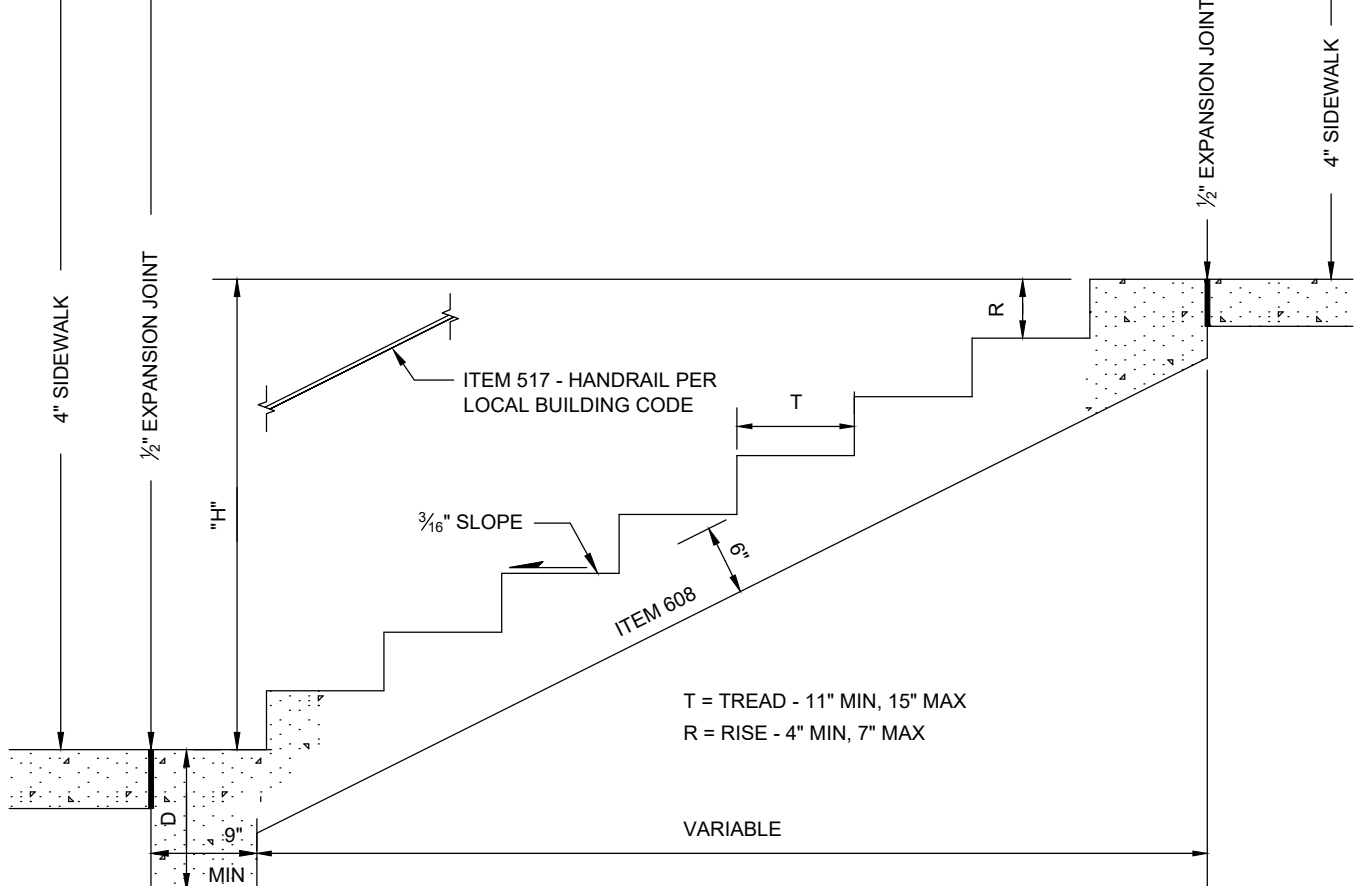
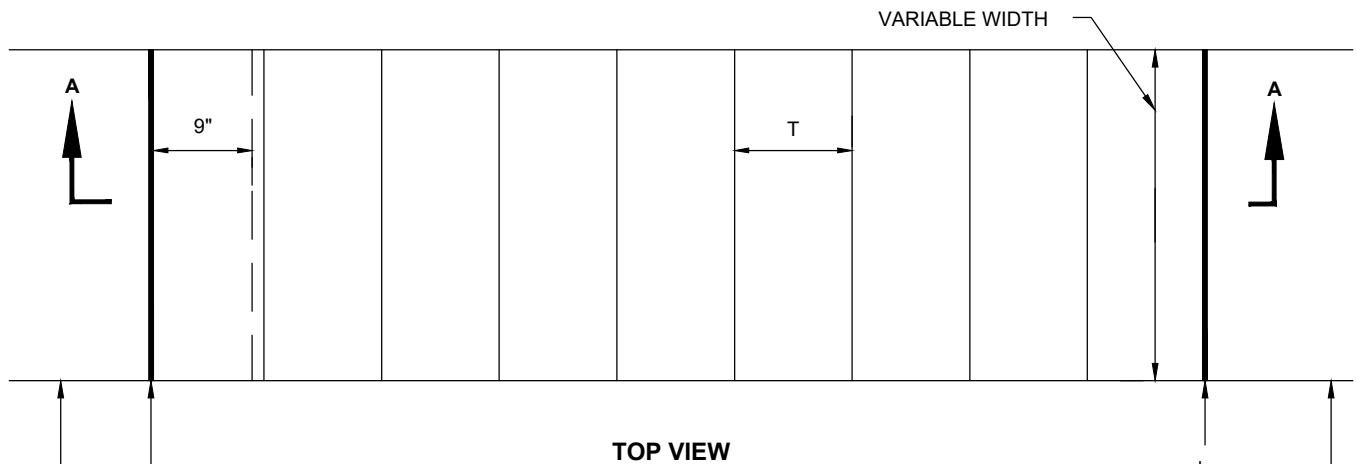
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CITY ENGINEER

STD DWG
2320

4/30/2018

SHT 1 OF 1



SECTION A-A
NO SCALE

FOR "H"=24" AND UNDER SEE SHEET 2 OR 3	
NO. OF RISERS	"D"
4	8"
5	10"
6	10"
7	12"
8	12"

STAIR TREADS AND RISERS SHALL BE OF EQUAL SIZE AND SHAPE. TOLERANCE BETWEEN THE LARGEST AND SMALLEST RISER HEIGHT OR BETWEEN THE LARGEST AND SMALLEST TREAD DEPTHS SHALL NOT EXCEED $\frac{3}{8}$ INCHES.

CONCRETE STEPS

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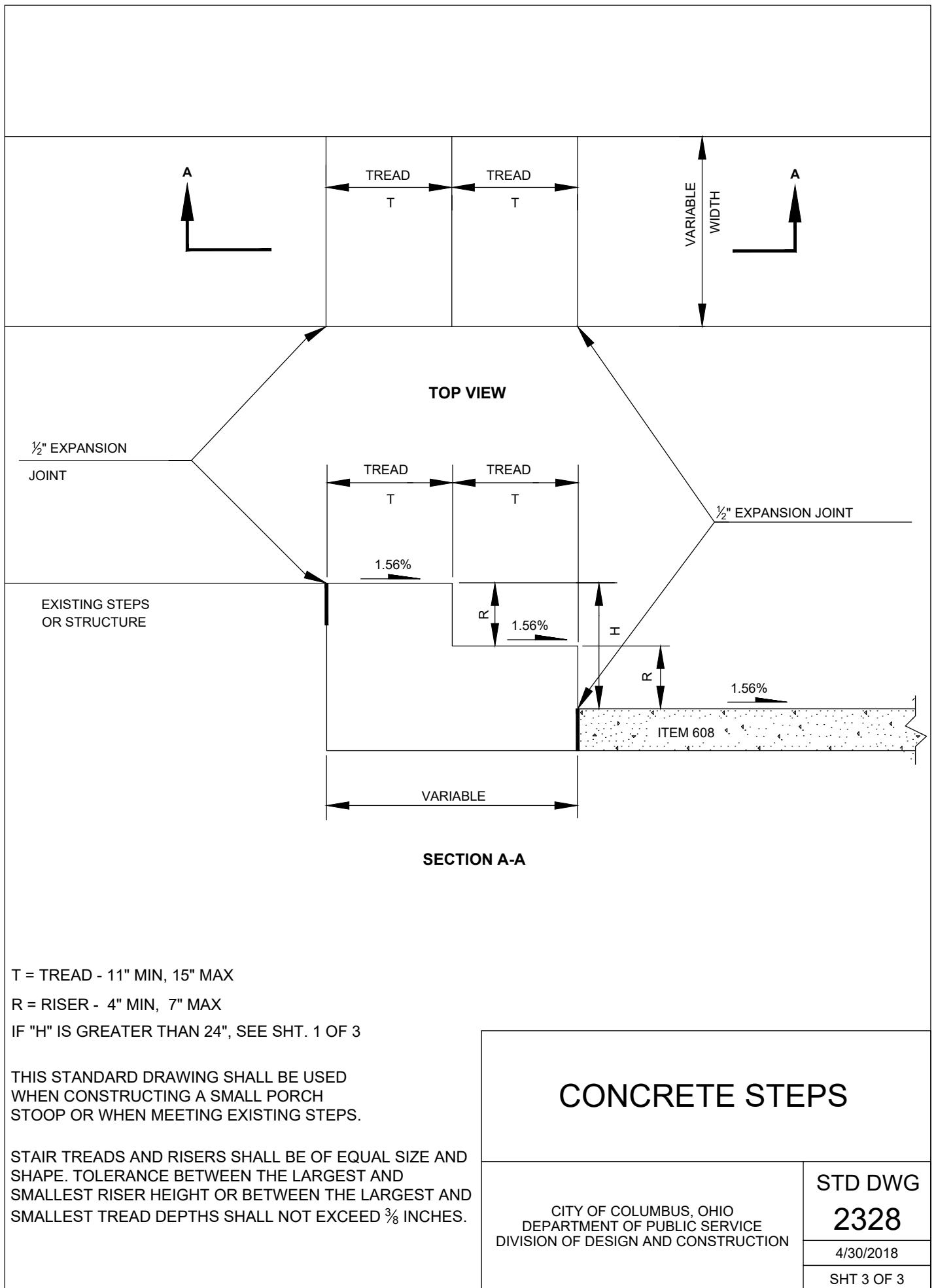
CITY ENGINEER

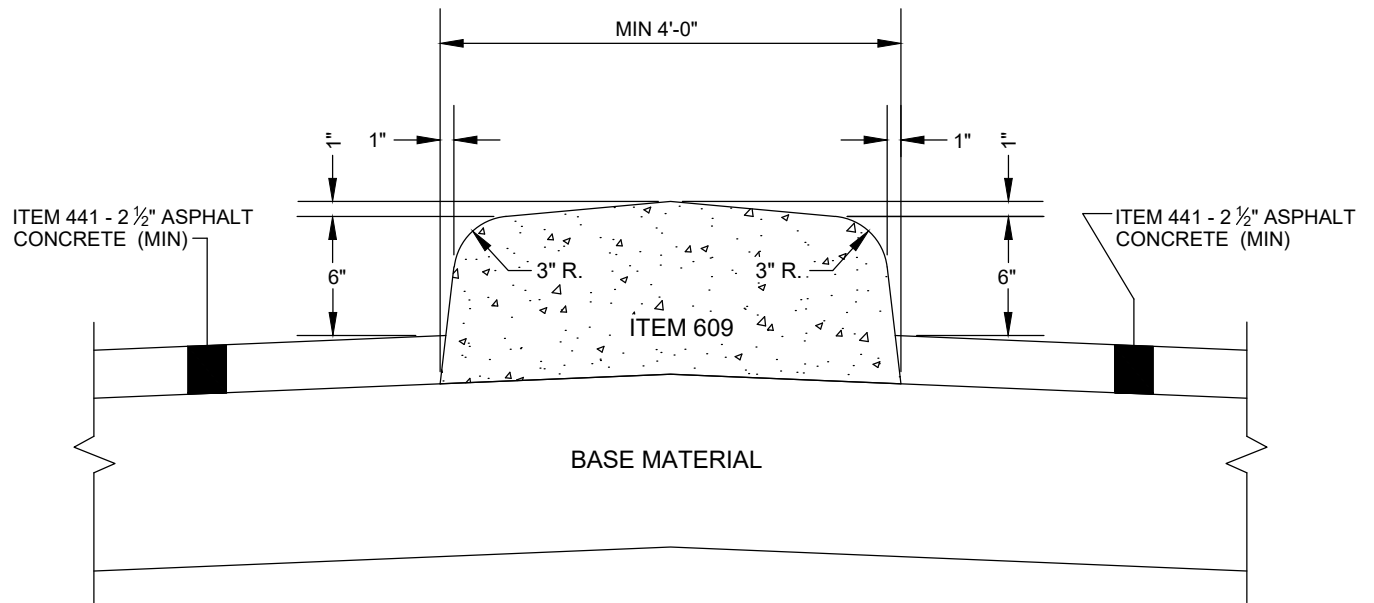
STD DWG
2328

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SHT 2 OF 3





2.74 C.F. CONCRETE PER L.F. FOR 4' WIDTH.

3.99 C.F. CONCRETE PER L.F. FOR 6' WIDTH.

JOINTS: 1/4" CONTRACTION JOINTS SHALL BE CONSTRUCTED OR SAWED AT 10' INTERVALS TO A 2" MINIMUM DEPTH AND ALIGNED WITH TRANSVERSE CONSTRUCTION JOINTS IN BASE.

SLOPE OF TOP OF MEDIAN TO BE IN SAME DIRECTION AS PAVEMENT SLOPE ON EITHER SIDE OF MEDIAN.

MEDIAN NOSE SHALL BE TAPERED FROM 6" TO 2" IN 4'-0" OR GREATER INTERVALS.

CONCRETE MEDIAN

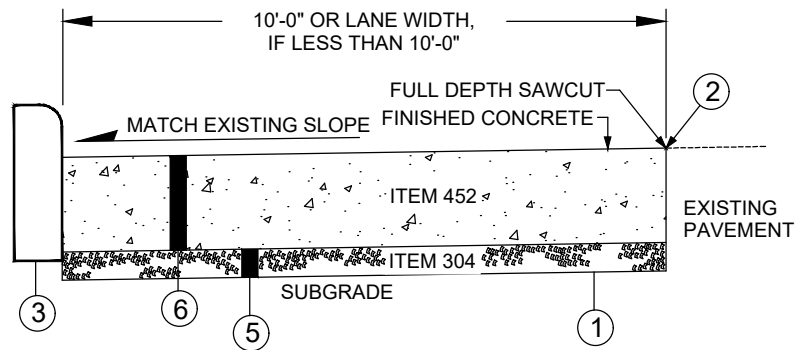
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CITY ENGINEER

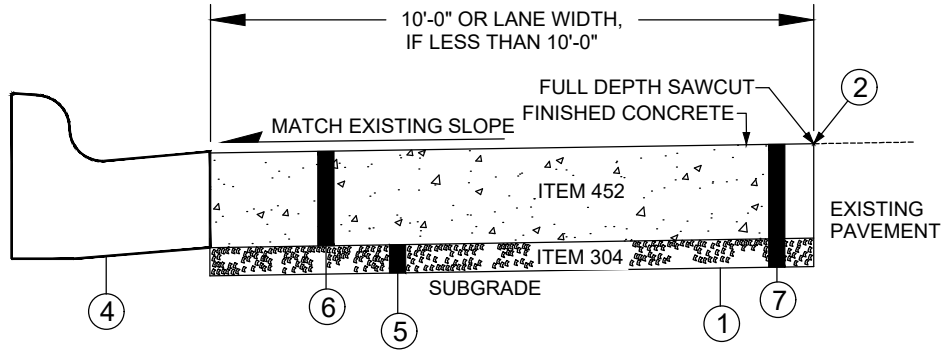
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2331

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TYPE A: CONCRETE BUS PAD AT LOCATIONS WITH STRAIGHT CURB



TYPE B: CONCRETE BUS PAD AT LOCATIONS WITH COMBINATION CURB & GUTTER

- ① ITEM 204 - SUBGRADE COMPACTION
- ② ITEM 423 - CRACK SEALING, TYPE I
- ③ ITEM 609 - EXISTING CURB OR, CURB STRAIGHT 18" (STANDARD DRAWING 2000)
- ④ ITEM SPECIAL - COMBINATION CURB AND GUTTER, TYP. SPECIAL 10" (STANDARD DRAWING 2020, MODIFIED)
- ⑤ ITEM 304 - 6" AGGREGATE BASE
- ⑥ ITEM 452 - 10" NON-REINFORCED CONCRETE PAVEMENT
- ⑦ PAVEMENT REMOVAL AND ITEM 203 - EXCAVATION

ITEM SPECIAL, CONCRETE BUS PAD, S.Y., SHALL INCLUDE THE FOLLOWING ITEMS:

ALL SAWCUTTING, PAVEMENT REMOVAL, ITEM 203 - EXCAVATION, ITEM 204 - SUBGRADE COMPACTION, ITEM 304 - 6" AGGREGATE BASE, ITEM 423 - CRACK SEALING, TYPE I, AND ITEM 452 - 10" NON-REINFORCED CONCRETE PAVEMENT.

FOR TYPE B CONDITION, THE EXISTING COMBINATION CURB & GUTTER SHALL BE REPLACED TO LIMITS OF BUS PAD INSTALLATION UNLESS WAIVED BY ENGINEER.

CONCRETE BUS PAD

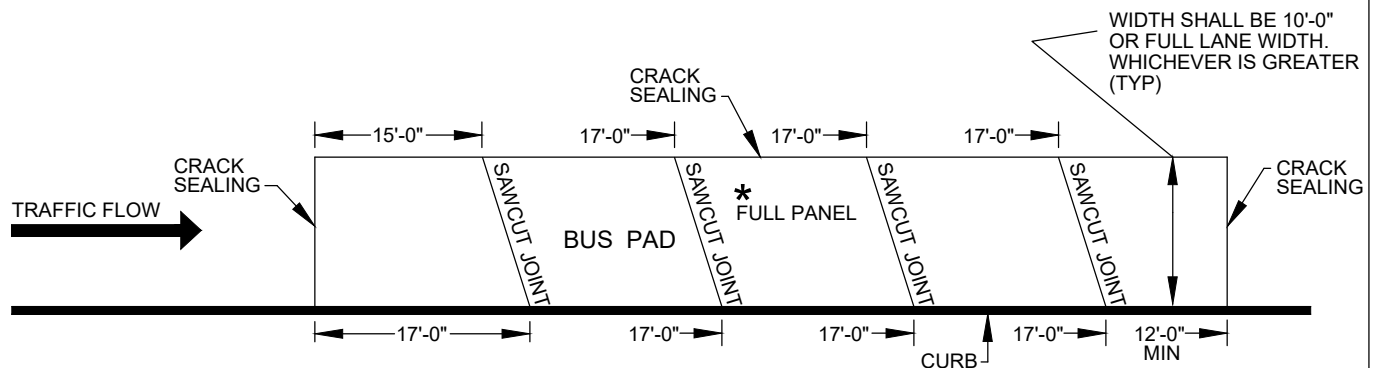
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TRANSVERSE JOINT PLAN VIEW

TRANSVERSE JOINT

EACH CONCRETE BUS PAD SHALL BE SAWCUT TO PROVIDE EQUAL PANELS WITH CONTRACTION JOINTS SPACED AT A MAXIMUM OF 17 FEET.

THE JOINT SHALL BE SKEWED WITH THE RIGHT EDGE OF THE JOINT 2 FEET AHEAD OF THE LEFT EDGE IN THE DIRECTION OF TRAVEL OVER WIDTH OF BUS PAD (SEE PLAN VIEW ABOVE AND DETAIL "A").

EACH SAWCUT JOINT SHALL BE SEALED WITH ITEM 705.04.

PARTIAL BUS PAD REPLACEMENT

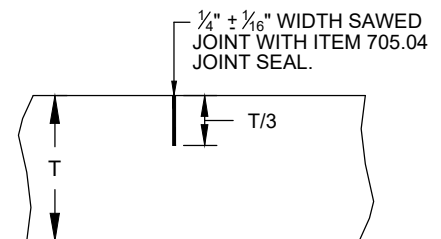
* ANY PARTIAL REPLACEMENT SHALL BE NO LESS THAN A FULL PANEL.

CONSTRUCTION JOINT

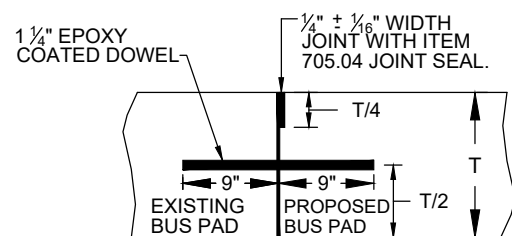
1) AT LOCATIONS WHERE A CONSTRUCTION JOINT IS REQUIRED (WHERE THE BUS PAD REQUIRES PARTIAL REPLACEMENT OR LENGTHENING), 1 1/4" EPOXY COATED DOWELS ARE TO BE USED AS SHOWN IN DETAIL "B".

2) DOWELS SHALL BE SPACED AT 12" CENTERS FOR TRANSVERSE JOINTS, BEGINNING 6" FROM THE JOINT.

3) THIS WORK SHALL BE PAID FOR UNDER ITEM 509 - EPOXY COATED REINFORCING (POUNDS) AND ITEM 510 - DOWEL HOLES (EACH).



DETAIL "A"



DETAIL "B"

TRANSVERSE JOINT

CONCRETE BUS PAD

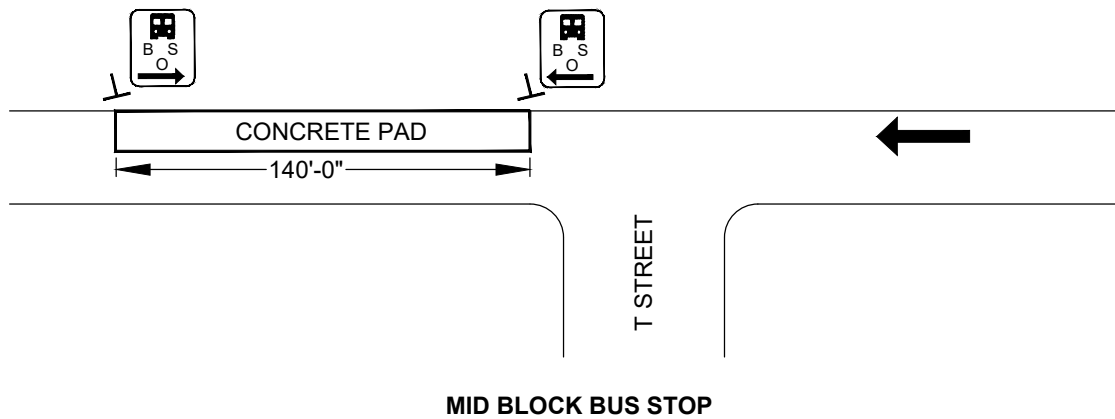
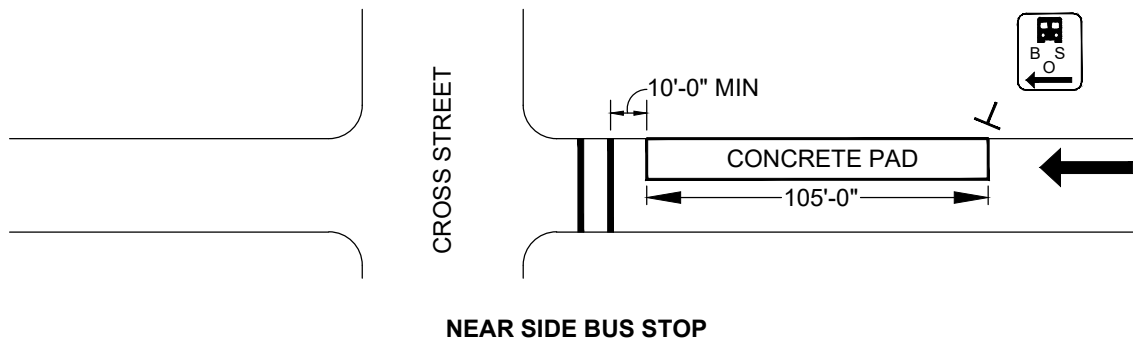
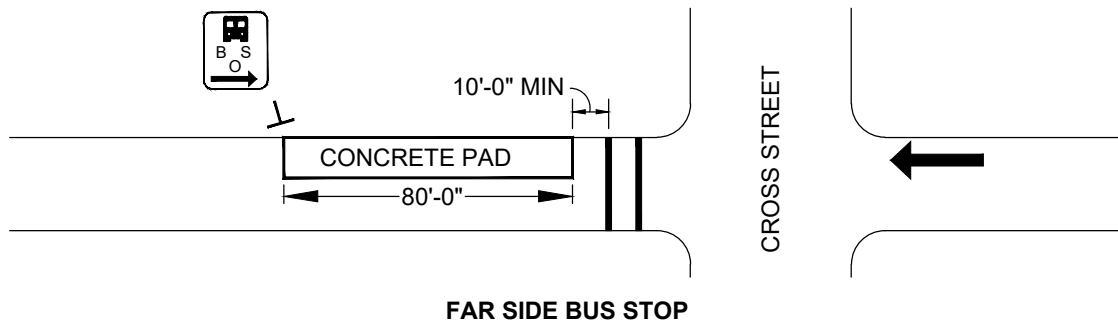
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SHT 2 OF 3



← DIRECTION OF TRAVEL

TYPICAL LOCATIONS

CONCRETE BUS PAD

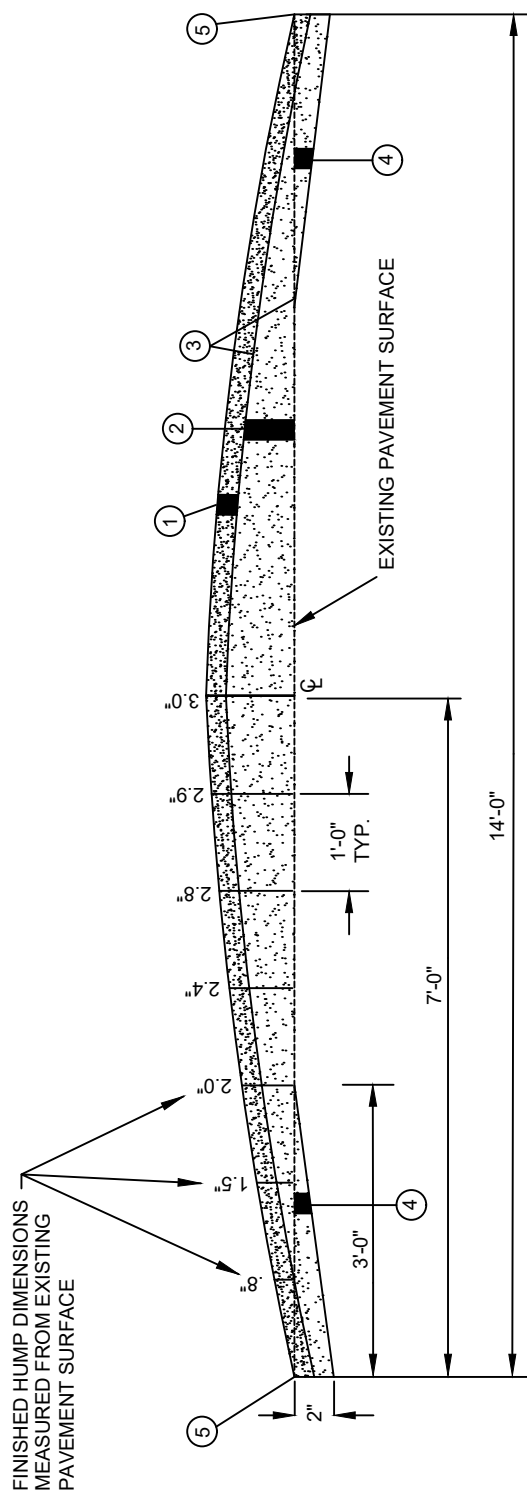
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- ① ITEM 441 - 1 ½" ASPHALT CONCRETE, SURFACE COURSE (TYPE 1), PG64-22
- ② ITEM 441 - VAR. ASPHALT CONCRETE, INTERMEDIATE COURSE (TYPE 2), PG64-22
- ③ ITEM 407 - TACK COAT
- ④ ASPHALT REMOVED
- ⑤ ITEM 423 - CRACK SEALING, TYPE I

THE TEMPERATURE FOR ITEM 441 - ASPHALT CONCRETE, INTERMEDIATE COURSE SHALL BE $< 150^{\circ} \text{ F}$ BEFORE ITEM 441 - ASPHALT CONCRETE, SURFACE COURSE CAN BE PLACED.

ITEM SPECIAL: 14' SPEED HUMP (EACH)

TOLERANCES (@ CREST) $-\frac{1}{4}$ " TO $+\frac{1}{2}$ "

CROSS - SECTION

14' SPEED HUMP

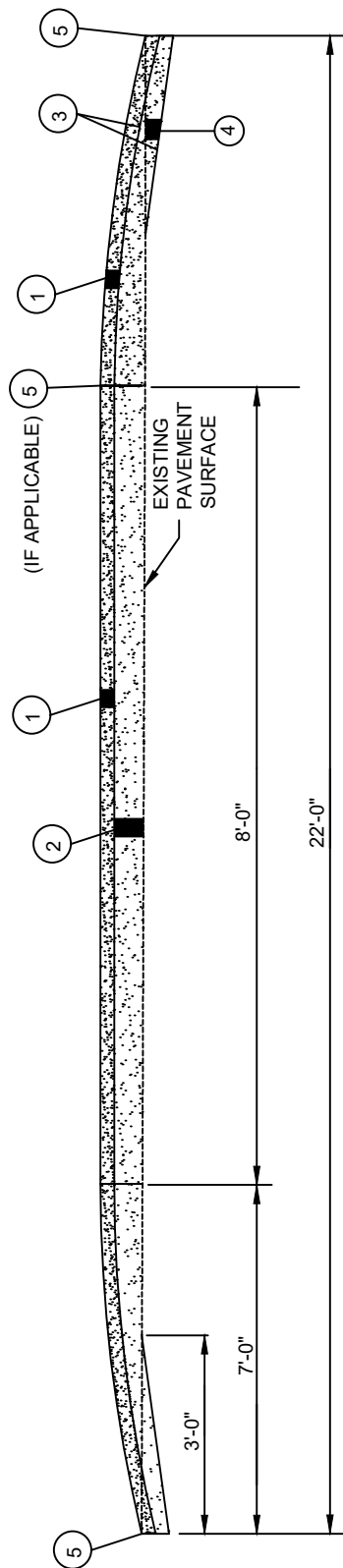
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DEPARTMENT OF PUBLIC SERVICE
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CITY ENGINEER

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SHT 1 OF 3

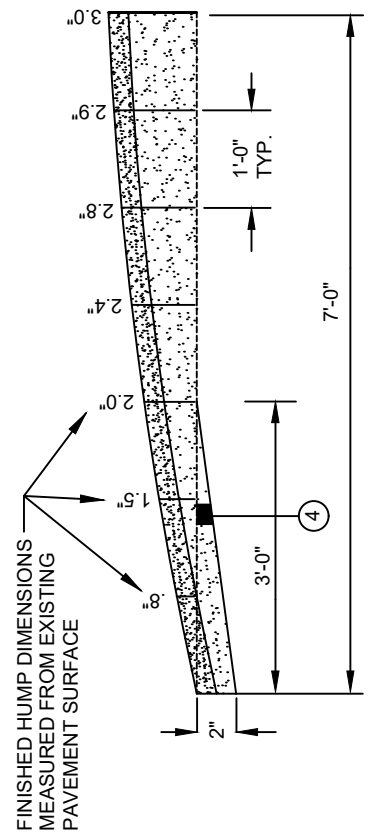


- ① ITEM 441 - 1 1/2" ASPHALT CONCRETE, SURFACE COURSE (TYPE 1), PG64-22
- ② ITEM 441 - VAR. ASPHALT CONCRETE, INTERMEDIATE COURSE (TYPE 2), PG64-22
- ③ ITEM 407 - TACK COAT
- ④ ASPHALT REMOVED
- ⑤ ITEM 423 - CRACK SEALING, TYPE I

THE TEMPERATURE FOR ITEM 441 - ASPHALT CONCRETE, INTERMEDIATE COURSE SHALL BE < 150° F BEFORE ITEM 441 - ASPHALT CONCRETE, SURFACE COURSE CAN BE PLACED.

ITEM SPECIAL: 22' SPEED HUMP (EACH)

TOLERANCES (@ CREST) -1/4" TO +1/2"



CROSS - SECTION

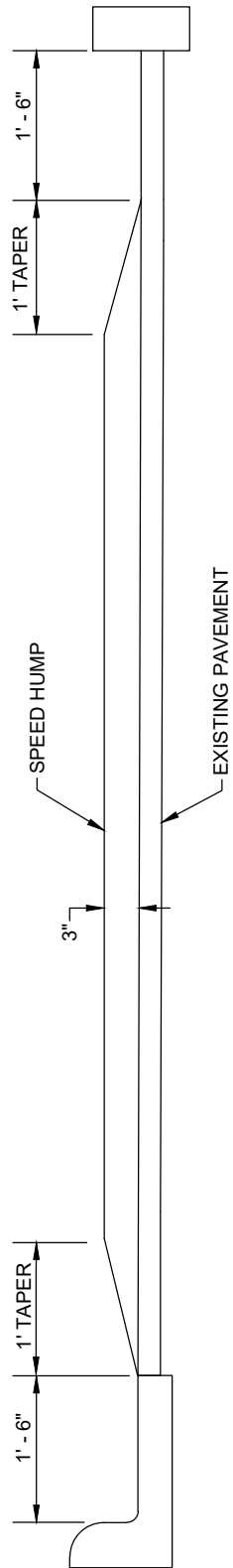
22' SPEED HUMP

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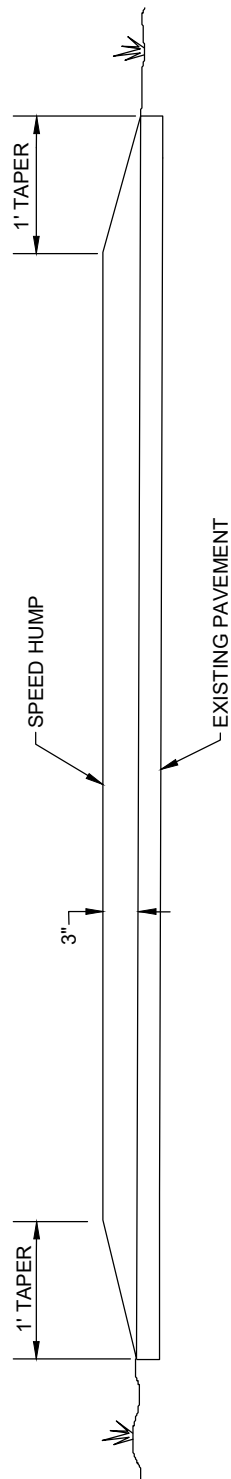
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SHT 2 OF 3



CURB & GUTTER OR STRAIGHT CURB



UNCURBED

ROADWAY CROSS - SECTION

SPEED HUMP

NOTE: DRAWING DOES NOT SHOW REQUIRED ASPHALT REMOVAL. REFER TO SHEETS 1 OF 3 AND 2 OF 3.

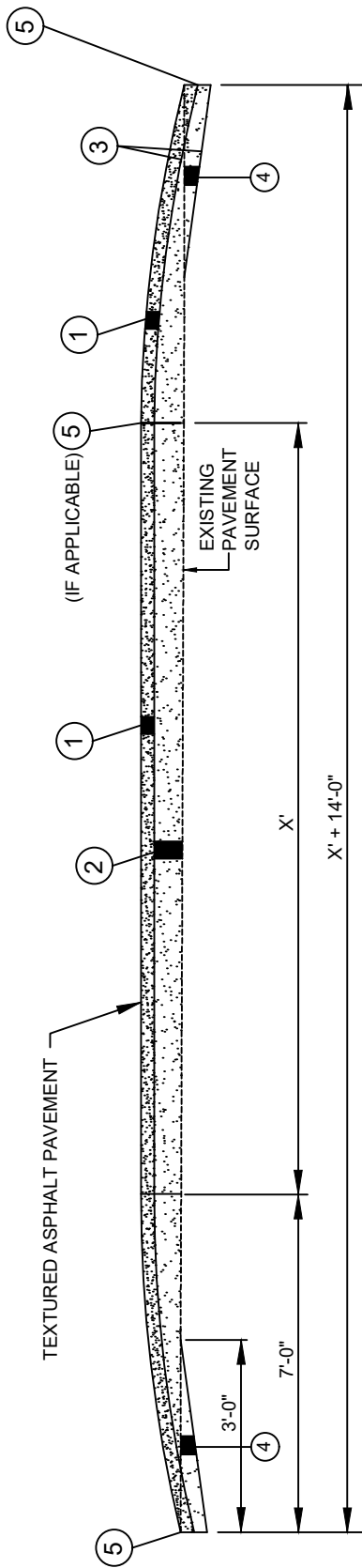
CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
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STD DWG

2335

4/30/2018

SHT 3 OF 3

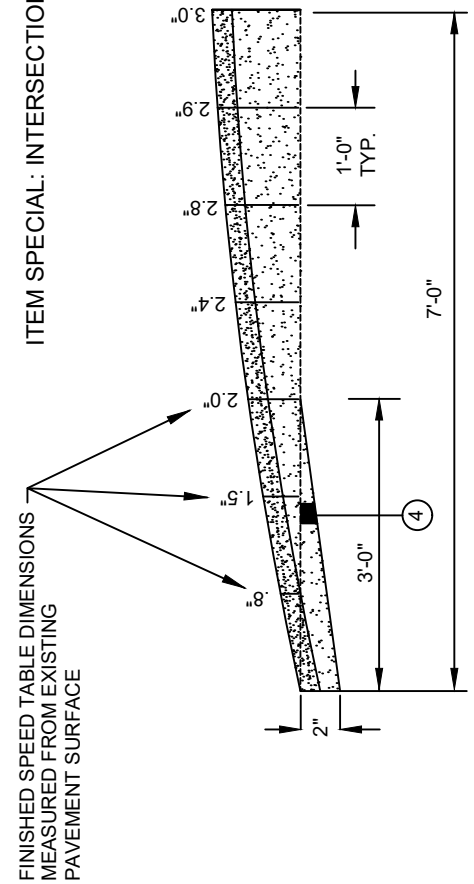


- ① ITEM 441 - 1 1/2" ASPHALT CONCRETE, SURFACE COURSE (TYPE 1), PG64-22
- ② ITEM 441 - VAR. ASPHALT CONCRETE, INTERMEDIATE COURSE (TYPE 2), PG64-22
- ③ ITEM 407 - TACK COAT
- ④ ASPHALT REMOVED
- ⑤ ITEM 423 - CRACK SEALING, TYPE I

THE TEMPERATURE FOR ITEM 441 - ASPHALT CONCRETE, INTERMEDIATE COURSE SHALL BE $< 150^{\circ} \text{F}$ BEFORE ITEM 441 - ASPHALT CONCRETE, SURFACE COURSE CAN BE PLACED.

X = VARIES ACCORDING TO STREET WIDTH.

ITEM SPECIAL: INTERSECTION SPEED TABLE (EACH)



CROSS - SECTION

INTERSECTION SPEED TABLE

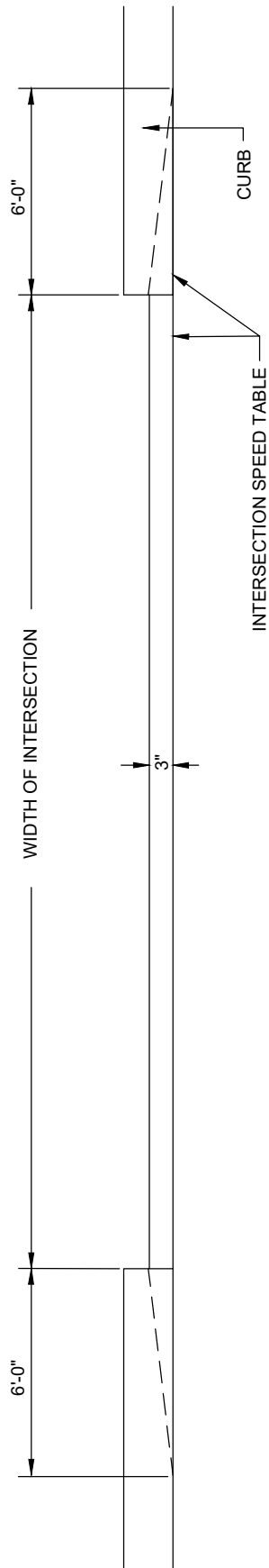
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CITY ENGINEER

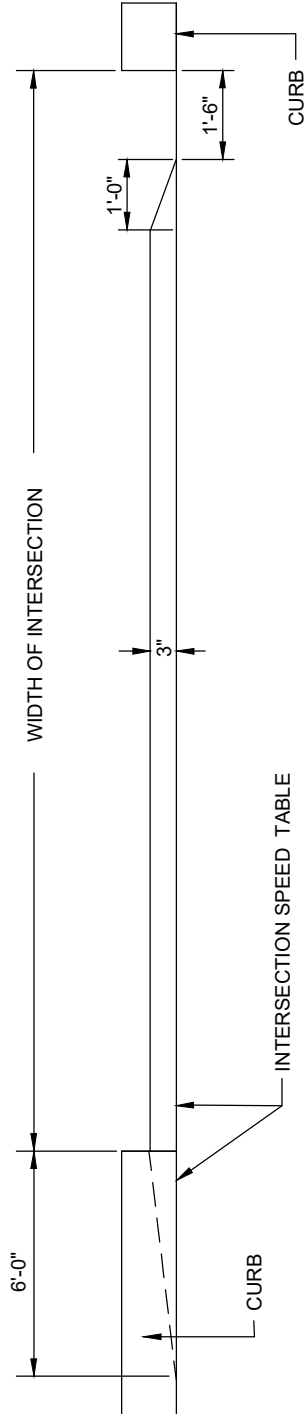
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4/30/2018

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FOUR - LEG INTERSECTION



THREE - LEG INTERSECTION

ROADWAY CROSS - SECTION

INTERSECTION
SPEED TABLE

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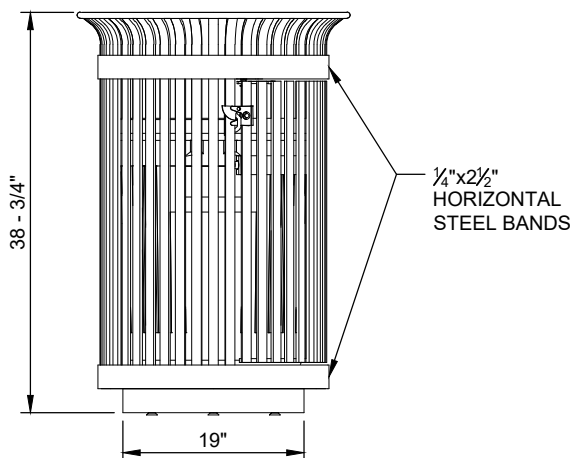
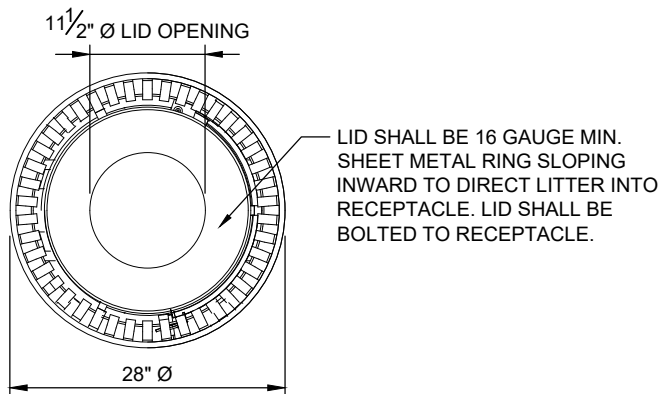
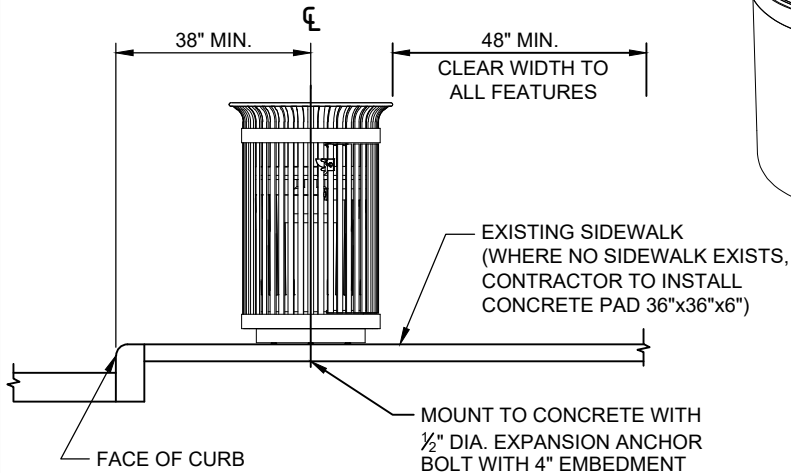
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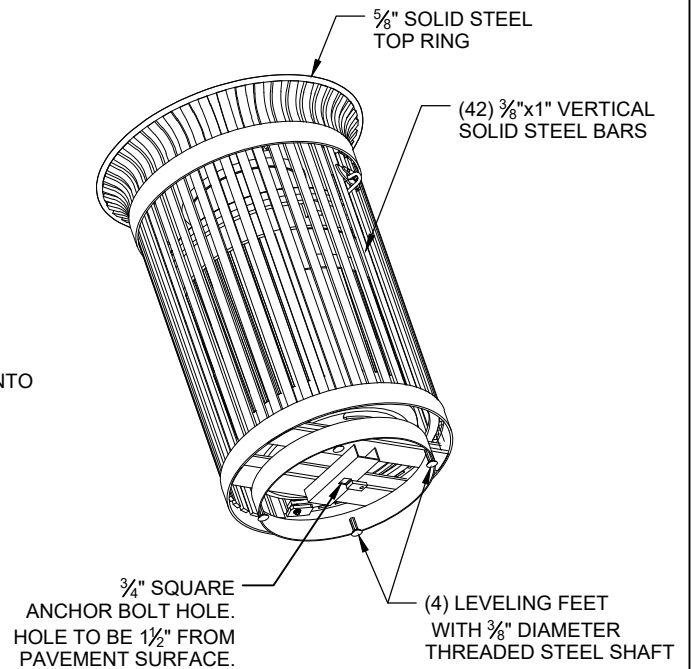
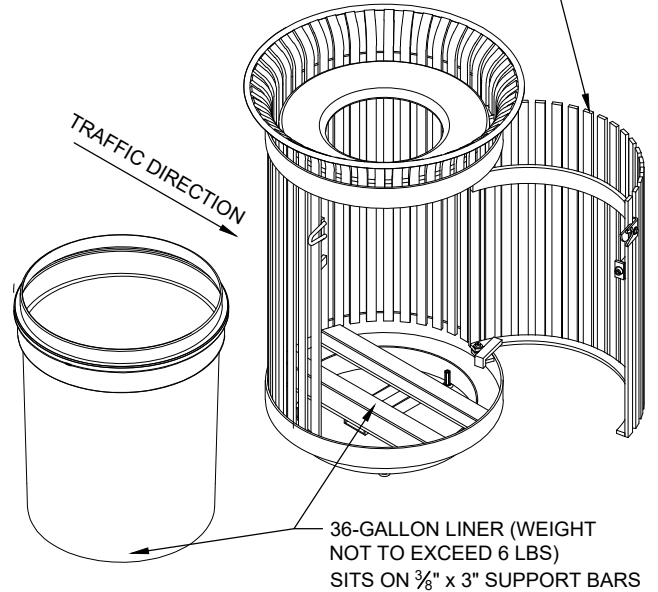
SHT 2 OF 2

NOTES:

1. SHIPPING WEIGHT OF RECEPTACLE SHALL BE 280 LBS, MIN.
2. RECEPTACLE SHALL HAVE SIDE DOOR ACCESS. USE OIL IMPREGNATED BRONZE BUSHINGS AND STAINLESS STEEL PIVOT PINS FOR DOOR MOVEMENT, WITH 3/16" SOLID STEEL LATCH ASSEMBLY (NO LOCK).
3. ALL FABRICATED METAL COMPONENTS SHALL BE STEEL SHOTBLASTED, ETCHED, PHOSPHATIZED, PREHEATED, AND ELECTROSTATICALLY POWDER-COATED WITH T.G.I.C. POLYESTER POWDER COATINGS, 8-10 MILS THICK. ALL PARTS SHALL BE BLACK POWDER COATED.
4. RECEPTACLES SHALL NOT BE INSTALLED NEXT TO ON-STREET PARKING.
5. LINER SHALL BE BLACK HIGH-DENSITY POLYETHYLENE PLASTIC. PLASTIC LINER REINFORCED, RIBBED AND MOLDED FOR LONGER LIFE, MINIMUM HEIGHT 26-3/4" - MAXIMUM 27-1/4", DIAMETER MINIMUM 21-1/2" - MAXIMUM 21-3/4".



DOOR TO BE PLACED ON OPPOSITE SIDE OF TRAFFIC FLOW SUCH THAT REFUSE WORKER IS FACING ONCOMING TRAFFIC DURING LINER REMOVAL



LITTER RECEPTACLE 36 GALLON CAPACITY

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STD DWG
2400

12/31/2018

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