



HIGHWAY OPENING PERMIT APPLICATION

Permit Application Date:	
Applicant Name:	
Applicant Address:	
Phone Number: Er	nail Address:
	E PERFORMED
Property Address:	E PERFORMED
Description of work to be completed, including purpose (be as s	pecific as possible):
bescription of work to be completed, including purpose (be as s	seeme as possible).
	75
2	
An accompanying sketch for the above-described work to be completed is requiregulations as set forth in Township Ordinance No.3, with the same force and eff special conditions or requirements applicable to this work, as may be designated Additional locations/parcels/addresses:	ect as if written or printed in this application; and under and subject to such
Special requirements: *If additional space is required, please attach a separa	ate sheet to the end of this application.*
Has an approved bond been filed?YESNO Has an approved bond been filed?	
And the Engineers of the Control of	any enlargement required to repair pavement to restore the area
Will part of the highway be used for the storage of materials?	YES NO
What will be the length of time the highway will be so occupied? Will any poles be erected or replaced? YES NO	
Will any poles be erected or replaced? YES NO	If so, provide pole number(s):
Will any driveway entrance, curb or sidewalk be constructed? Has the required survey been made establishing the line and grad	
YESNO	
Signature of Applicant:	
-OR- Signature of Authorized Agent:	
Submit complet	ed application to:
Upper Dublin Township Public Wo	rks Department, c/o Rebecca Barrett
370 Commerce Drive, F	ort Washington, PA 19034
	DR –
<u>rbarrett@up</u>	<u>perdublin.net</u>
- AUTHORIZED USE ONLY - Permit fee: \$	
NOTE: The above permit fee will be determined and provided to the applicant u	e received within ten (10) days of the billing date. The above permit is valid for sixty
- ALITHORIZED LISE ONLY - Permission is hereby granted to the	stated applicant for the stated purpose on this application at the
	ited and referred to in above application and the requirements as
set forth in the Upper Dublin Township Ordinances and regulation	· ·
Sect - term the opper babail formiship or aniances and regulation	n 164.
The receipt of permit fee paid to the Township in the amount of	\$ is hereby acknowledged.
Signature of Township Official:	Date:
Printed Name of Township Official	
Printed Name of Township Official:PERMIT NUMBER:	ISSUE DATE:

IMPORTANT NOTES:

- 1. ALL CHECKES SHOULD BE MADE PAYABLE TO "UPPER DUBLIN TOWNSHIP."
- 2. THE PUBLIC WORKS DEPARTMENT MUST BE NOTIFIED 24 HOURS PRIOR TO THE START OF CONSTRUCTION.
- 3. APPLICANT/CONTRACTOR IS RESPONSIBLE FOR CALLING "PA ONE CALL" PRIOR TO EXCAVATING (1-800-242-1776).
- 4. ALL QUESTIONS SHOULD BE DIRECTED TO RBARRETT@UPPERDUBLIN.NET OR 215-643-1600 EXT. 3810

UPPER DUBLIN TOWNSHIP PUBLIC WORKS DEPARTMENT

Concrete Inspections

- 1) All Highway Opening Permits (HOPS) need to be filed and issued prior to the commencement of work. The execution of the HOP indicates that you have read and understand the terms listed below.
- 2) Contractor must provide Certificate of Insurance and emergency contact information to the office and the inspector prior to the commencement of work.
- 3) Contractor must provide the Township inspector with a slip from the concrete delivery truck at the time of installation.
- 4) Contractor must establish an inspection time by calling the Public Works Department at least 24 hours in advance. Please call Rebecca Barrett at 215.643.1600 x3810. The following inspections are required:
 - A. Compacted sub-grade.
 - B. Forms installed, braced and compacted stone-base.
 - C. The installation of the Aquron 2000 concrete curing compound.
 - D. Type AA, 3750 PSI concrete (ticket to be given to inspector batch plant only no site mix trucks).
 - E. Backfill, grade and seed (sidewalks and curbs)
 - F. Steel curb forms (front and back) to be clean, oiled, pinned and wired prior to pour.
 - G. Backfill in road to consist of 6" of 2A material compacted installed and a minimum of 6 1/2" of 19mm Super Pave installed and compacted in 3" lifts. All paving edges to be tack coat
 - H. Driveway restoration at 11 1/2" excavation. This requires 8" of 2A material compacted, 2" of 19.0mm and 1 1/2" of 9.5mm paving to be installed. Joints are to be sealed with PG-6422. All paving edges to be tack coated.
 - I. All of the above inspections shall be performed and confirmed by the inspector and the contractor during each phase of the project. All signatures are required for the permit to be considered complete. If any of the above inspections are not completed a cease and desist order will be issued and the installed concrete will be removed to the satisfaction of the Township.

Print Name	Emergency Phone Number
Signature	Rev 2013



Upper Dublin Township **Public Works Department**

801 Loch Alsh Avenue Fort Washington, PA 19034 Phone: 215-643-1600 Fax: 215-542-0797

www.upperdublin.net

Requirements for **Trench Excavating** in Upper Dublin Township

PA 1 call required
Trenches five (5) feet (1.5 meters) deep or greater require a protective system, unless the excavation is made entirely in stable rock. If less than five (5) feet, a competent person may determine that a protective system is not required. The certification paper work for any protective systems is to be on site during the work period.
Road plates should be available and will be required if necessary.
All stone backfill (2a) in 8" (eight inch) compacted lifts is required. (Flowable fill will be considered.)
3 day notice, prior to excavation, is required if the road is to be closed.
48 hour notice for inspection is required.
The proper utility must be notified
UD TWP standards are required. UD TWP details RD108, RD109, CC200 & CC204 are attached.
Code Enforcement must be notified
All OSHA regulations apply
An OSHA trained competent person is required to be on site during work hours
Road signage and/or flagmen will be required. Supply a road signage plan.
Safety vest and equipment must be on site and in place prior to excavation.
Head protection (hard hat) is required.
A ladder is required to enter and exit the trench AS PER OSHA REGULATIONS.
A 4 (four) gas meter is required for any trench 4' (feet) or over.
Lighted street barricades/barrels are required to be on site prior to start of excavation and put in place as required.
The attached excavation check list must be completed and available upon request from the inspector.
Attached is a summary of OSHA main requirements as a reference only. The contractor is responsible for all OSHA compliance.
I have read and agree with all the above statements / requirements.

PLEASE NOTE:

Signature:

THE ABOVE ITEMS MUST BE ON SITE AND AVAILABLE PRIOR TO THE START OF THE WORK.

ALL OF THE ABOVE CONDITIONS ARE REQUIRED TO BE MET. IF THE ABOVE CONDITIONS ARE NOT MET AT ANY TIME, UPPER DUBLIN TOWNSHIP WILL STOP WORK UNTIL THE ISSUE IS CORRECTED.

Concrete Checklist for Residential Sidewalk and Curb

rade)
rade)
ng
3
g
y

OSHA REQUIREMENTS



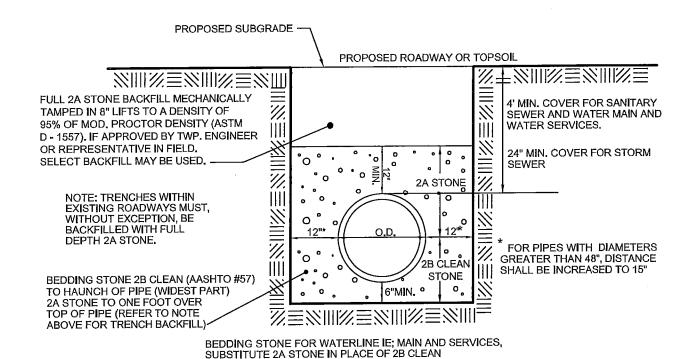
www.ShoringSolutions.com

OSHA 29 CFR Part 1926.650-.652 Subpart P - Excavations:

OSHA's excavation standard contains many different requirements as well as several appendices that can be confusing at first glance. The following information summarizes the main requirements in order to help contractors prepare the job site for OSHA inspections.

- Prior to digging, the contractor shall locate and identify all underground utilities such as sewer, telephone, fuel, electric, water lines, etc. that may be encountered during the excavation.
- The contractor must designate a competent person or qualified person to assess the excavation and determine that it is safe for project personnel to enter and work.
- All surface encumbrances such as signs, trees, fences, poles, sidewalks, etc. that create a hazard to employees must be removed or supported during the excavation.
- All excavating must maintain a minimum of 10 ft. from overhead power lines rated 50 kV or less, with 0.4 in. of clearance added for every kV over 50.
- Support systems shall be provided to ensure the stability of adjacent structures endangered by excavation operations.
- If excavation is over 5 ft. deep, a protective system such as a trench shield shall be used to prevent a cave in.
- The contractor must provide a safe means of entering or exiting any excavation over 4 ft. deep.
- A means of egress from a trench such as a ladder, ramp, or stairway shall be located within 25 ft. of workers.
- In excavations over 4 ft. in depth, the potential for the accumulation of hazardous gases or vapors must be realized.
- Shielding systems shall be installed and removed in a manner that protects employees from cave-ins; structural collapses, or from being struck by any part of the support system.
- Shielding systems shall be installed in a manner to restrict lateral or other hazardous movement of the shield in the event of a sudden collapse.
- The bottom of the shielding system can not be positioned greater than 2 ft. above the bottom of the excavation.
- Shielding systems and their components shall not be subjected to loads which they are not designed to withstand.
- Shielding systems and their components shall be securely connected to prevent predictable failures.
- The removed spoil shall not be stockpiled closer than 2 ft. from the excavation's edge.
- Backfilling shall progress together with the removal of support systems from excavations.
- Any excavation left unattended must be barricaded, fenced or otherwise protected against accidental entry by pedesirians.
- Employees exposed to vehicular traffic must wear a high-visibility vest, and the excavation must be protected from traffic.
- If employees must cross over an open excavation, a safe means must be provided so that the employees do not have to jump across the trench.
- No workers shall enter or work in excavations where standing water is visible unless adequate protection is used.
- No employee shall be permitted underneath loads handled by lifting or digging equipment.
- If the competent person finds evidence of a hazardous situation that may result in a cave-in, protective system failure, a hazardous atmosphere, or other hazardous conditions, exposed employees shall be removed from the hazardous area until the necessary precautions, have been taken to ensure safety.





NOTE:

STONE.

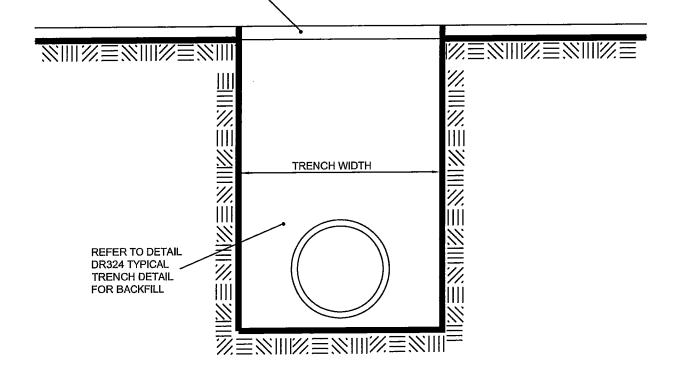
ALL GAS, ELECTRIC & TELECOMMUNICATION LINES, AND WATER SERVICE TRENCHES WITHIN EXISTING ROADWAYS, PROPOSED ROADWAYS, ALL RIGHT OF WAYS, BIKETRAIL EASEMENTS, PROPOSED DRIVEWAYS, APRONS AND SIDEWALKS MUST, WITHOUT EXCEPTION, BE BACKFILLED WITH FULL DEPTH 2A STONE AFTER TOP SCREENING.
ALL UTILITY TRENCHES MUST BE COMPACTED (MECHANICALLY TAMPED) IN 8" LIFTS.

INDEX

UPPER DUBLIN TOWNSHIP STANDARD DETAIL TYPICAL TRENCH DETAIL

NOT TO SCALE

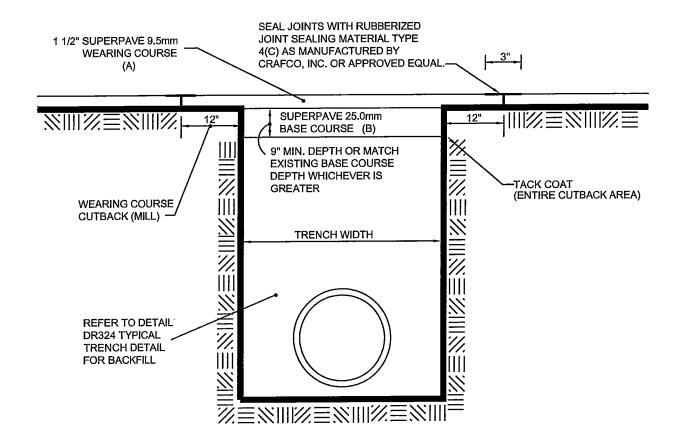
Metz Engineers (A) 2" DEPTH SUPERPAVE ASPHALT MIXTURE DESIGN, HMA BINDER COURSE, PG 64-22, 0.0 TO 0.3 MILLION ESALS, 19 mm MIX. (COMPACTED PER PENNDOT 408 CURRENT EDITION, SECT. 409)—



UPPER DUBLIN TOWNSHIP STANDARD DETAIL

TEMPORARY ROAD RESTORATION WITHIN TOWNSHIP ROADS





NOTES:

- 1. PROVIDE MATERIALS AND CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF PENNDOT PUBLICATION 408, CURRENT EDITION, INCLUDING BUT NOT LIMITED TO SECTION 210-SUBGRADE, SECTION 350-SUBBASE AND SECTION 409-SUPERPAVE MIXTURE DESIGN, STANDARD AND RPS CONSTRUCTION OF PLANT-MIXED HMA COURSES, AND AS MODIFIED HEREIN.
 - (A) 1 1/2" DEPTH SUPERPAVE ASPHALT MIXTURE DESIGN, HMA WEARING COURSE, PG 64-22, 0.0 TO 0.3 MILLION ESALs, 9.5mm MIX, SRL H
 - (B) 9" MINIMUM DEPTH (OR MATCH EXISTING BASE COURSE, WHICHEVER IS GREATER) SUPERPAVE ASPHALT MIXTURE DESIGN, HMA BASE COURSE, PG 64-22, 0.0 TO 0.3 ESALs, 25.0mm MIX.

UPPER DUBLIN TOWNSHIP STANDARD DETAIL

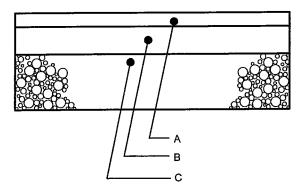
PERMANENT ROAD RESTORATION WITHIN TOWNSHIP ROADS



DATE 10-2013

NOT TO SCALE

RD109



SINGLE FAMILY RESIDENTIAL:

- A. 1 1/2" DEPTH SUPERPAVE ASPHALT MIXTURE DESIGN, HMA WEARING COURSE, PG 64-22, 0.0 TO 0.3 MILLION ESALS, 9.5mm MIX, SRL H
- B. 2" DEPTH SUPERPAVE ASPHALT MIXTURE DESIGN, HMA BINDER COURSE, PG 64-22, 0.0 TO 0.3 MILLION ESALs, 19.0mm MIX.
- C. 8" 2A STONE

NOTES:

1. PROVIDE MATERIALS AND CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF PENNDOT PUBLICATION 408, CURRENT EDITION, INCLUDING BUT NOT LIMITED TO SECTION 210-SUBGRADE, SECTION 350-SUBBASE AND SECTION 409-SUPERPAVE MIXTURE DESIGN, STANDARD AND RPS CONSTRUCTION OF PLANT-MIXED HMA COURSES, AND AS MODIFIED HEREIN.

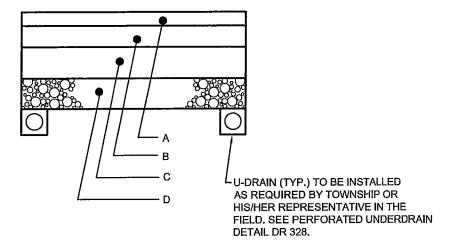
SUBGRADE STABILITY VERIFICATION

After contractor has prepared subgrade in accordance with PennDot Publication 408, Section 210 (subgrade) a subgrade stability verification is required prior to placement of sub-base material. A triaxle fully loaded maximum load (quarry slip of loaded weight will be required in the field) is required to run over entire roadway subgrade (including curb lines), over all trenches and anywhere directed by Township Engineer or his/her representatives in the field. Areas displaying pronounced elasticity, pumping, movement or deformation under the loaded triaxle will be noted and marked in the field. The areas noted and/or marked showing unstable subgrade must be corrected and reverified for required stability prior to starting subbase construction. All areas that are to be filled, stoned, paved and/or curbed are required to be proofrolled by this method. A subgrade stability re-verification is required after any/all rain events, snow events (once cleared and/or melted), introduction of moisture to the subgrade or sub-base, or as determined by the Township Engineer's representative in the field.

UPPER DUBLIN TOWNSHIP STANDARD DETAIL

SINGLE FAMILY RESIDENTIAL BITUMINOUS DRIVEWAY





STANDARD:

- 1 1/2" DEPTH SUPERPAVE ASPHALT MIXTURE DESIGN, HMA WEARING COURSE, PG 64-22, 0.0 TO 0.3 MILLION ESALs, 9.5mm MIX, SRL H
- B. 2" DEPTH SUPERPAVE ASPHALT MIXTURE DESIGN, HMA BINDER COURSE, PG 64-22, 0.0 TO 0.3 MILLION ESALs, 19.0mm MIX.
- C. 3" DEPTH SUPERPAVE ASPHALT MIXTURE DESIGN, HMA BASE COURSE, PG 64-22, 0.0 TO 0.3 MILLION ESALs, 25.0mm MIX.
- D. 6" 2A STONE

NOTES:

1. PROVIDE MATERIALS AND CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF PENNDOT PUBLICATION 408, CURRENT EDITION, INCLUDING BUT NOT LIMITED TO SECTION 210-SUBGRADE, SECTION 350-SUBBASE AND SECTION 409-SUPERPAVE MIXTURE DESIGN, STANDARD AND RPS CONSTRUCTION OF PLANT-MIXED HMA COURSES, AND AS MODIFIED HEREIN.

SUBGRADE STABILITY VERIFICATION

After contractor has prepared subgrade in accordance with PennDot Publication 408, Section 210 (subgrade) a subgrade stability verification is required prior to placement of sub-base material. A triaxle fully loaded maximum load (quarry slip of loaded weight will be required in the field) is required to run over entire roadway subgrade (including curb lines), over all trenches and anywhere directed by Township Engineer or his/her representatives in the field. Areas displaying pronounced elasticity, pumping, movement or deformation under the loaded triaxle will be noted and marked in the field. The areas noted and/or marked showing unstable subgrade must be corrected and reverified for required stability prior to starting subbase construction. All areas that are to be filled, stoned, paved and/or curbed are required to be proofrolled by this method. A subgrade stability re-verification is required after any/all rain events, snow events (once cleared and/or melted), introduction of moisture to the subgrade or sub-base, or as determined by the Township Engineer's representative in the field.

UPPER DUBLIN TOWNSHIP STANDARD DETAIL MULTI-FAMILY RESIDENTIAL AND

NON-RESIDENTIAL BITUMINOUS DRIVEWAY & PARKING

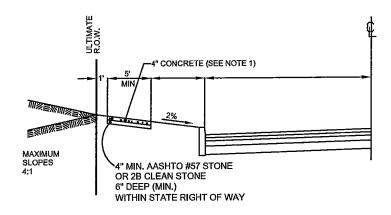


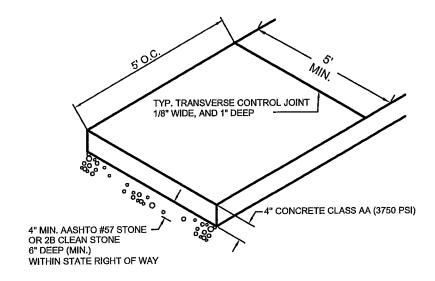
UPPER DUBLIN TOWNSHIP PUBLIC WORKS DEPARTMENT

Standards for Replacement Curbs, Sidewalks, and Drive Aprons

The following requirements and written details will supplement the current edition of the Upper Dublin Township Engineering and Construction Standards. These requirements are intended to clarify any technical construction practices unique to replacement work and not covered by development and PennDOT procedures.

- All subgrade in sidewalk, apron, and curb areas will be inspected for suitability, and compacted with vibratory or pneumatic equipment. Upon acceptance by the Township inspector for depth and suitability, base stone will be leveled and compacted.
- 2) All tie-in locations for replacement work will be cut full depth, with adequate joint material sufficient to the installation depth. Joint material is subject to pre-approval by inspector.
- 3) Replacement concrete flatwork or curb which has sunken over utility connections will have sufficient subgrade compaction and have reinforcing placed as shown in detail #2.
- 4) All flatwork will be raked-off and hand- or mechanical-screeded between forms, in accordance with good construction practice (see sidewalk detail). Ballfloats or long trowels will not be considered acceptable alternates. Variations in new flatwork of more than 1/8" in 1 foot will be considered unacceptable, and require removal and reinstallation.
- 5) Wooden forms for sidewalks and drive aprons will be considered acceptable only if constructed of full-dimensional (1½" minimum) straight finished lumber. Only steel forms in good condition, as specified in the Standards, shall be used for curb work.
- 6) Only materials utilized for work in progress, or scheduled for the next day, shall be stored in the road. Locations are subject to approval of the site inspector, and will require lighted barricades overnight.
- 7) All excavations are to be barricaded with lights as required.





NOTES:

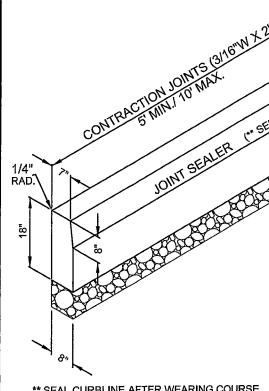
- 1, PROVIDE MATERIALS AND CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF PENNDOT PUBLICATION 408, CURRENT EDITION, AND AS MODIFIED HEREIN.
- 2. CONCRETE SHALL BE CLASS AA (3750 PSI), AIR ENTRAINED (6%) WITH A 4" SLUMP MAX.
- 3. TRANSVERSE CONTROL JOINTS 1/8" WIDE AND 1" DEEP TO BE FORMED EVERY 5 FEET.
- 4, EXPANSION JOINTS WITH 1/2" PRE-MOLDED MATERIAL SHALL BE PLACED EVERY 30 FEET TO FULL DEPTH.
- 5, ALL EDGES TO BE ROUNDED WITH A 1/4" TOOL.
- 6. LIGHT BROOM FINISH TO BE APPLIED.
- 7. WEATHER PROTECTION SHALL BE USED IN ACCORDANCE WITH PENNDOT PUBLICATION 408 CURRENT EDITION.
- 8. PENETRATING SEALER TO BE APPLIED IMMEDIATELY FOLLOWING FINISHING OPERATIONS. PENETRATING SEALER TO BE AQURON CPT2000 OR APPROVED EQUAL.

UPPER DUBLIN TOWNSHIP STANDARD DETAIL PROPOSED SIDEWALK



CONCRETE CURB DETAIL

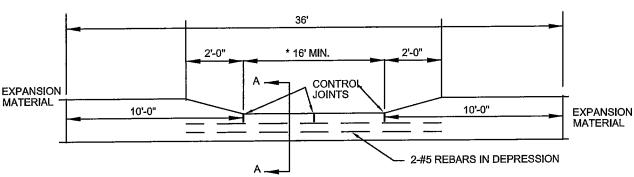
8"



** SEAL CURBLINE AFTER WEARING COURSE PLACEMENT WITH RUBBERIZED JOINT SEALING MATERIAL TYPE 4(C) AS MANUFACTURED BY CRAFCO, INC. OR APPROVED EQUAL. 2" VERTICALLY UP FACE OF CURB, 12" HORIZONTALLY OUT FROM FACE OF CURB.

3/4" RAD. 1/4" R. TOP OF CURB IN DEPRESSION 2 1/2" 1 1/2" MAX. 4" 2B CLEAN STONE (AASHTO #57) 2-#5 REBARS IN DEPRESSION EXTRUDED CURB SHALL BE SECTION A-A

END OF CURB TAPER



PERMITTED UNDER FOLLOWING

1. MACHINE APPROVED BY ENGINEER 2. CLASS AA (3750 PSI) CONCRETE AIR

CONDITIONS ONLY:

ENTRAINED (6%) 3, 1" TO 2" SLUMP 4. FULLTIME INSPECTION FORMED CURB SHALL BE: 1. CLASS AA (3750 PSI) 2. AIR ENTRAÎNED (6%)

3. 4" SLUMP

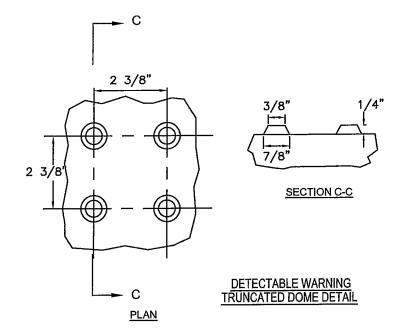
3/4" RAD.

* 16' FOR 10' WIDE DRIVEWAY. FOR WIDER DRIVEWAYS ADD 6' TO THE DRIVE WIDTH.

- 1. PROVIDE MATERIALS AND CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF PENNDOT PUBLICATION 408, CURRENT EDITION, AND AS MODIFIED HEREIN.
- 2. 3/4" PREMOLDED EXPANSION JOINT MATERIAL SHALL BE PLACED AT 30 FOOT MAXIMUM SPACING TO FULL DEPTH OF CURB. (40 FOOT MAXIMUM FOR EXTRUDED CURB), AT STRUCTURES AND AT THE END OF A DAYS WORK.
- 3. CURB SHALL BE DOWEL PINNED INTO INLETS. 2-#8X1'-0" DOWEL BARS ON BOTH SIDES OF INLET.

- 4, 4" 2B CLEAN STONE UNDER CURB.
- 5. WEATHER PROTECTION SHALL BE USED IN ACCORDANCE WITH PENNDOT PUBLICATION 408, CURRENT EDITION.
- 6. PENETRATING SEALER TO BE APPLIED IMMEDIATELY FOLLOWING FINISHING OPERATIONS. PENETRATING SEALER TO BE AQURON CPT2000 OR APPROVED EQUAL.

UPPER DUBLIN TOWNSHIP STANDARD DETAIL **CONCRETE CURB DETAIL**



4" CONCRETE CLASS AA (3750 PSI)

4" MIN. AASHTO #57 STONE OR 28 CLEAN STONE (MECHANICALLY TAMPED) 6" DEEI (MIN.) WITHIN STATE RIGHT OF WAY COMPACTED SUBGRADE (SEE CONSTRUCTION NOTE 2)

CONCRETE AND STONE CROSS SECTION

- DESIGN NOTES

 1. EACH CURB RAMP REQUIRES AN INDIVIDUAL DESIGN,
 BY THE DESIGN ENGINEER. EACH INDIVIDUAL RAMP
 MAY REQUIRE COMPLETED DISTRICT (D6) CS-4401 INSPECTION
 FORMS. DESIGN MUST SHOW ALL ELEVATIONS, SLOPES ETC.
 AND MUST COMPLY WITH PENNDOTS ADA REFERENCE
 GUIDE (DISTRICT 6) AND PENNDOT RC 67m CURRENT
 EDITION. REFER TO CONSTRUCTION NOTES FOR
 CONSTRUCTION REQUIREMENTS.
- 2. REFER TO PENNDOT RC 67m CURRENT EDITION FOR TYPES OF RAMPS.

CONSTRUCTION NOTES:

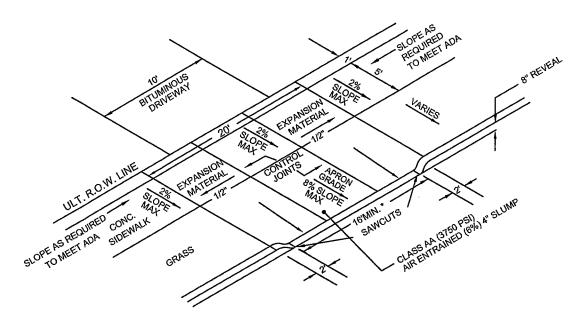
- PROVIDE MATERIALS AND CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF PENNDOT PUBLICATION 408, CURRENT EDITION, AND AS MODIFIED HEREIN.
- 2. SUBGRADE MUST BE APPROVED BY THE TOWNSHIP ENGINEER OR THE TOWNSHIP ENGINEERS REPRESENTATIVE IN THE FIELD PRIOR TO INSTALLING STONE.
- CONCRETE SHALL BE 4" THICK (MIN.) CLASS AA (3750 PSI), AIR ENTRAINED (6%) WITH A 4" SLUMP (MAX).
- 4. TRANSVERSE CONTROL JOINTS 1/8" WIDE AND 1" DEEP AT THE DISCRETION OF TOWNSHIP ENGINEER OR HIS/HER REPRESENTATIVE IN FIELD.
- CONCRETE TO BE PLACED ON A 4"(MIN.) LAYER OF AASHTO #57 STONE OR 2B CLEAN STONE (6" MIN. LAYER WITHIN STATE R/W).
- 6. ALL EDGES TO BE ROUNDED WITH A 1/4" TOOL
- 7. FINISH CEMENT CONCRETE RAMP WITH COARSE BROOMED TEXTURE TRANSVERSE TO THE SLOPE OF CURB RAMP.
- 8. WEATHER PROTECTION SHALL BE USED IN ACCORDANCE WITH PENNDOT PUBLICATION 408 CURRENT EDITION.
- PENETRATING SEALER TO BE APPLIED IMMEDIATELY FOLLOWING FINISHING OPERATIONS. PENETRATING SEALER TO BE AQURON CPT2000 OR APPROVED EQUAL.
- 10.ALIGN DETECTABLE WARNING DOMES ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.
- 11. PROVIDE "CAST IN PLACE TRUNCATED DOME DETECTABLE WARNING SYSTEM" AS MANUFACTURED BY ADA SOLUTIONS, INC. OR APPROVED EQUAL. COLOR: BRICK RED.

UPPER DUBLIN TOWNSHIP STANDARD DETAIL CURB AND SIDEWALK RAMPS

RAMPS

CC201





DESIGN NOTES

- 1. EACH APRON REQUIRES AN INDIVIDUAL DESIGN,
 BY THE DESIGN ENGINEER. EACH INDIVIDUAL APRON
 DESIGN MUST SHOW ALL ELEVATIONS, SLOPES ETC.
 AND MUST COMPLY WITH THE DRIVEWAY DETAILS
 SECTION OF PENNDOTS ADA REFERENCE GUIDE
 (DISTRICT 6) AND PENNDOT RC 67m CURRENT
 EDITION. REFER TO CONSTRUCTION NOTES FOR
 CONSTRUCTION REQUIREMENTS.
- REFER TO PENNDOT RC 67m CURRENT EDITION FOR TYPES OF DRIVEWAY APRONS.
 - * 16' FOR 10' WIDE DRIVEWAYS. FOR WIDER DRIVEWAYS ADD 6' TO DRIVE WIDTH.

NOTE: CONTROL JOINTS TO BE INSTALLED PER PENNDOT 408 CURRENT EDITION

CONTROL JOINT PLACEMENT TO BE AT THE DISCRETION OF THE TWP. ENGINEER OR THEIR REPRESENTATIVE IN THE FIELD.

CONSTRUCTION NOTES:

- PROVIDE MATERIALS AND CONSTRUCTION IN ACCORDANCE WITH PENNDOT PUBLICATION 408, CURRENT EDITION AND AS MODIFIED HEREIN.
- SUBGRADE MUST BE APPROVED BY THE TOWNSHIP ENGINEER OR THE TOWNSHIP ENGINEERS REPRESENTATIVE IN THE FIELD PRIOR TO INSTALLING STONE.
- WEATHER PROTECTION SHALL BE USED IN ACCORDANCE WITH PENNDOT PUBLICATION 408, CURRENT EDITION.
- 4. PENETRATING SEALER TO BE APPLIED IMMEDIATELY FOLLOWING FINISHING OPERATIONS. PENETRATING SEALER TO BE AQURON CPT2000 OR APPROVED EQUAL.

RESIDENTIAL

6" CLASS AA (3750 PSI)
CONCRETE AIR ENTRAINED
(6%) 4" SLUMP
6"X6" -W1.4 X W1.4 WWF
(2" FROM THE TOP SURFACE
OF THE CONCRETE).
6" 2B CLEAN
STONE.(AASHTO #57)
COMPACTED SUBGRADE
(SEE CONSTRUCTION NOTE 2)

COMMERCIAL OR INDUSTRIAL

8"(MIN.) CLASS AA (3750 PSI)
CONCRETE AIR ENTRAINED
(6%) 4" SLUMP
"6"X6"-W2.1 X W2.1 WWF
(2" FROM THE TOP SURFACE
OF THE CONCRETE AND 3" FROM
THE BOTTOM SURFACE OF THE
CONCRETE).
8" 2B CLEAN
STONE.(AASHTO #57)
COMPACTED SUBGRADE
(SEE CONSTRUCTION NOTE 2)

UPPER DUBLIN TOWNSHIP STANDARD DETAIL

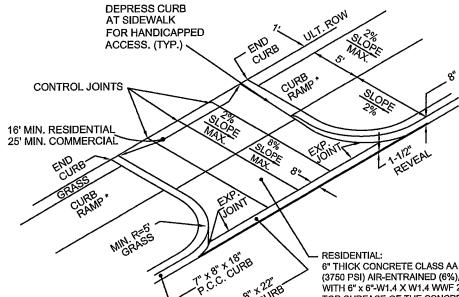
CONCRETE DRIVEWAY APRON



CONCRETE DRIVEWAY RAMP

*CURB RAMP DESIGN NOTES

- 1, EACH CURB RAMP REQUIRES AN INDIVIDUAL DESIGN, BY THE DESIGN ENGINEER, EACH INDIVIDUAL RAMP MAY REQUIRE COMPLETED DISTRICT 6 (D6) CS-4401 INSPECTION FORMS, DESIGN MUST SHOW ALL ELEVATIONS, SLOPES ETC. AND MUST COMPLY WITH PENNDOTS ADA REFERENCE GUIDE (DISTRICT 6) AND PENNDOT RC 67m CURRENT EDITION. REFER TO CONSTRUCTION NOTES FOR CONSTRUCTION REQUIREMENTS.
- 2. REFER TO PENNDOT RC 67m CURRENT EDITION FOR TYPES OF RAMPS.



DRIVEWAY APRON DESIGN NOTES 1. EACH APRON REQUIRES AN INDIVIDUAL

- DESIGN, BY THE DESIGN ENGINEER. EACH INDIVIDUAL APRON DESIGN MUST SHOW ALL ELEVATIONS, SLOPES ETC. AND MUST COMPLY WITH THE DRIVEWAY DETAILS SECTION OF PENNDOTS ADA REFERENCE GUIDE (DISTRICT 6) AND PENNDOT RC 67m CURRENT EDITION, REFER TO CONSTRUCTION NOTES FOR CONSTRUCTION REQUIREMENTS.
- 2. REFER TO PENNDOT RC 67m CURRENT EDITION FOR TYPES OF DRIVEWAY APRONS.

6" THICK CONCRETE CLASS AA (3750 PSI) AIR-ENTRAINED (6%), 4" SLUMP) WITH 6" x 6"-W1.4 X W1.4 WWF 2" FROM THE TOP SURFACE OF THE CONCRETE ON 6" 2B CLEAN STONE (AASHTO-#57)

COMMERCIAL OR INDUSTRIAL: 8"(MIN.) THICK CONCRETE CLASS AA (3750 PSI) AIR

ENTRAINED (6%) 4" SLUMP WITH 6"X6"-W2.1 X W2.1 WWF. 2" FROM THE TOP SURFACE OF THE CONCRETE AND 3" FROM THE BOTTOM SURFACE OF THE CONCRETE ON 8" 2B CLEAN STONE (AASHTO #57).

CONSTRUCTION NOTES:

- 1, PROVIDE MATERIALS AND CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF PENNDOT PUBLICATION 408, CURRENT EDITION, AND AS MODIFIED HEREIN.
- 2. SUBGRADE MUST BE APPROVED BY THE TOWNSHIP ENGINEER OR THE TOWNSHIP ENGINEERS REPRESENTATIVE IN THE FIELD PRIOR TO INSTALLING STONE.
- 3. WEATHER PROTECTION SHALL BE USED IN ACCORDANCE WITH PENNDOT PUBLICATION 408, CURRENT EDITION.
- 4. PENETRATING SEALER TO BE APPLIED IMMEDIATELY FOLLOWING FINISHING OPERATIONS. PENETRATING SEALER TO BE AQURON CPT2000 OR APPROVED EQUAL.

UPPER DUBLIN TOWNSHIP STANDARD DETAIL CONCRETE DRIVEWAY RAMP WITH CURBED RADIUS RETURNS

