



City of Cleveland

Justin M. Bibb, Mayor

Department of Finance
Division of Purchases and Supplies
601 Lakeside Avenue, Room 128
Cleveland, Ohio 44114-1080
216/664-2620 Fax 216/664-2177
www.cleveland-oh.gov

February 27, 2026

ADDENDUM NO. 1

BID TITLE: **File No. 11-26 – Concrete Repair and Maintenance**

BID DUE: Thursday, March 5, 2026 at 12 o'clock noon (Eastern Time)

Attention Bidders: We have been requested to issue the addendum to advise vendors of the following:

1. Questions and Answers
2. Revised Schedule of Items and Appendix A, which will replace the pages originally included in the bid package.
3. To provide potential bidders with the revised Part D – Detailed Specifications, which will replace the pages originally included in the bid package.

Please ensure that a copy of this addendum is included and returned with the bid specifications furnished to you by this office, as it will have the same force and effect as if it were part of the specifications originally issued.

Thank you for your prompt attention and assistance in this matter.

Signature of Potential Bidder & Name of Company

Today's Date

Questions and Answers

1.	Question	Please correlate Part D Detailed specifications with bid items they are associated with. Items as listed do not provide the accompanying corresponding D section that is associated with the Bid Item.
	Answer	This is a maintenance and repair contract. Not all Part D specifications will apply to every bid item. Specifications provide governing standards for materials and workmanship, while bid items establish payment. The applicable specification(s) will be determined by the scope of work directed for each task.
2.	Question	Bid Form Items refer to FAA specifications (P-209, P-154, P-501, P-610). FAA specs are general and need clarification by the engineer / owner (See attached example). Please provide project specific specifications for all items listed above since there are significant cost variables associated with material / reinforcement types, testing, acceptance, smoothness etc., that will impact pricing these items correctly.
	Answer	FAA specifications referenced are to be followed in their entirety unless specifically modified in the contract documents. This is a maintenance and repair contract; detailed project-specific design criteria will be determined based on field conditions and directed scope of work. Contractors are responsible for pricing work in accordance with the referenced FAA standards.
3.	Question	How is the contractor compensated for pavement removal, sawcutting, excavation etc. for bid items #1-#7?
	Answer	The unit price of the bid items shall include all costs, direct and indirect, including labor and materials, to the Bid - Schedule of Items, unless otherwise stated. This shall include, but not be limited to, arranging and providing for all traffic maintenance; providing and maintaining traffic control and warning devices, including temporary and permanent pavement markings; all transportation cost to the work site; picking up material, including all loading and unloading; all mobilization and demobilization; warehousing and maintaining of inventory; the removal and disposing of salvaged material; and all documentation of completed work.
4.	Question	Bid Items # 8 and #9 Dowel bar baskets. Are these baskets to be Epoxy?
	Answer	Yes
5.	Question	Bid Item 14, is this Item to include excavation and or ODOT 304 base? If so, what depths and thickness is to be installed.
	Answer	Bid price shall include all work to complete in place. Base material, if required, shall conform to ODOT standards.
6.	Question	Bid Item # 15 Six-inch concrete what Concrete specification is to be used on this Item? Are the driveway or aprons 451 or 452 concrete? is this Item to include excavation and or ODOT 304 base? If so, what depth or thickness is to be installed
	Answer	This is a maintenance contract; the specific concrete class will be determined based on field conditions and directed scope of work. Contractors shall price the item accordingly and include all work required to complete installation in place.
7.	Question	Bid Item # 16 8-inch concrete, what Concrete specification is to be used on this Item? Are the driveway or apron to be 451 or 452 concretes? is this Item to include excavation and or ODOT 304 base? If so, what depth and thickness is to be installed. What type and size reinforcing will be required if directed by Engineer.

	Answer	This is a maintenance contract; the specific concrete class will be determined based on field conditions and directed scope of work. Concrete shall conform to ODOT standard specifications unless otherwise directed. The bid price shall include all work necessary to complete the item in place, including excavation, subgrade preparation, base material if required, and reinforcing if directed by the engineer.
8.	Question	Item 19 What type of Curb or curbs are to be included in this Item.
	Answer	Curb shall conform to applicable ODOT standard specification and details unless otherwise noted. The bid price shall include all work necessary to complete the curb installation in place.
9.	Question	Item 21. What type of Curb or curbs are to be included in this Item. Please provide size of underdrain pipe that is to be installed.
	Answer	Curb shall conform to ODOT standard specifications and details unless otherwise noted. Underdrain type, if required, shall conform to applicable ODOT standards. The bid price shall include all work necessary to complete the curb in place.
10.	Question	Bid Item # 10 Please provide requirements for fiber and dosage rate to be used under this bid Item
	Answer	Fiber reinforcement, if used, shall be incidental to the unit price for concrete complete in place. Fiber type and dosage shall be determined by the contractor and submitted with the mix design for approval. All materials shall comply with FAA P-specs and relevant ASTM standards.
11.	Question	Bid Item # 11 Please provide required sealer material, specification and product information required by FAA for this Item.
	Answer	All materials shall comply with FAA P-specs and relevant ASTM standards. Type may vary based on project.
12.	Question	Bid Item # 12 Please provide required crack seal material, specification and product information required by FAA for this Item or approved for airfield use.
	Answer	All materials shall comply with FAA P-specs and relevant ASTM standards.
13.	Question	Bid Item # 13 Please provide required joint seal material, specification and product information required by FAA for this Item or approved for airfield use.
	Answer	All materials shall comply with FAA P-specs and relevant ASTM standards.
14.	Question	Under specification D-3 Grading, the contractor should include any adjusting to grade of valves or castings. What type of castings and where will these casting be located that will need adjusting. Will these castings be located on the airfield? What Bid Item should the contractor include these costs under?
	Answer	Bid should include all estimated costs to "complete in place". Location of all repairs that may be needed is not known. Additional materials that may be needed per job may fall under bid item (miscellaneous allowance).
15.	Question	Specification D-4 Concrete. Identify in the Bid Items which Items will be installed Per City standards as noted on page 5 Item F.
	Answer	This is already stated in bid items #2 and #5.
16.	Question	Provide Bid Item for Specification D-6 which requires High early strength concrete.
	Answer	No additional bid item. Specifications for D-6 can be found in P-501.
17.	Question	What Bid Item is Specification D-12.(Grooving) to be used with? Including method of payment
	Answer	Added bid item. (#28) See Updated Bid Items sheet
18.	Question	Please provide proposed specifications and gradation requirements for Bid Item

		4 P-154 subbase.
	Answer	This is a maintenance and repair contract; detailed project-specific design criteria will be determined based on field conditions and directed scope of work. Contractors are responsible for pricing work in accordance with the referenced FAA standards.
19.	Question	Bid items 8 and 9 call for dowel bar baskets material and delivery. Are these two bid items for baskets being installed for bid items 1, 5, and 6? Or just materials to be provided to the City of Cleveland?
	Answer	The contractor bid price shall include all materials, completed in place for applicable jobs.
20.	Question	Bid item 10 fiber reinforcing added to concrete mix 500 cubic yard. Please provide the City of Cleveland standards for fiber reinforcement and DPC's proposed pounds of fiber per cubic yard to be added to the concrete mix.
	Answer	Fiber reinforcement, if used, shall be incidental to the unit price for concrete complete in place. Fiber type and dosage shall be determined by the contractor and submitted with the mix design for approval. All materials shall comply with FAA P-specs and relevant ASTM standards.
21.	Question	Bid item 23 Quikrete Concrete Mix or approved equivalent states 5 pallets. Please provide what size bag in pounds and how many bags per pallet DPC requires for this bid item for clarity.
	Answer	Changing bid item to price per bag. See Updated Bid Items sheet
22.	Question	Per City of Cleveland specifications Cleveland 650 has been removed and replaced with ODOT QC Mixes. Please Advise.
	Answer	We will be referring to ODOT and FAA P-specs for this contract.

BID - SCHEDULE OF ITEMS City of Cleveland Division of Purchases And Supplies 128 City Hall Cleveland, Ohio 44114				BID PAGE 1 of 4	
				BIDDER MUST COMPLETE & SIGN BELOW	
TITLE OF BID				AUTHORIZED SIGNATURE	
<p>Authorizing the purchase by one or more requirement contracts of labor and materials necessary for constructing, repairing, maintaining, removing, replacing, disposing, and installing concrete surfaces and structures on roadways, taxiways, runways, ramps and other paved surfaces, for the various divisions of the Department of Port Control, for a period of one year with three one-year options to renew, exercisable by the Director of Port Control.</p>					
ORDINANCE NO. 1253-2025	PASSED: 11/17/2025	EFFECTIVE: 11/19/2025	DATE		
DEPARTMENT		DIVISION			
PORT CONTROL					
CITY RECORD ADVERTISEMENT DATES		STANDARD CONTRACT BID			
		<input checked="" type="checkbox"/> REQUIREMENT CONTRACT BID			
BUYER		BID OPENING		12:00 O'CLOCK NOON	
purchasing@clevelandohio.gov				Official Time	
Fax Number (216) 664-2177					
DESCRIPTION					
		QUANTITY/ ALLOWANCE	UNIT	PER HR/UNIT RATE	EXTENSION (Quantity x Unit Price)
1	ODOT 305 Concrete Base, complete in place	3,000	CU YD		
2	ODOT 304, Compacted in Place per City standards	3,000	CU YD		
3	P-209 Crushed Aggregate Base Course, complete in place	3,000	CU YD		
4	P-154 Subbase Course, complete in place	3,000	CU YD		
5	Class MS-800 Concrete, installed per City standards	3,000	CU YD		
6	P-501 Concrete, complete in place	3,000	CU YD		
7	P-610 Concrete, complete in place	3,000	CU YD		
ALL QUANTITIES ARE APPROXIMATE AMOUNTS. THE CONTRACT, IF ANY, SHALL BE FOR A PERIOD OF TWO YEARS, WITH TWO ONE-YEAR OPTIONS TO RENEW.					
ALL OF THIS BOUND INFORMATION MUST BE KEPT INTACT AND TOGETHER WITH ANY ADDENDA ISSUED, AND MUST BE RETURNED WITH THE BID. OTHERWISE, THE BID MAY BE CONSIDERED INFORMAL.					
BIDDER MUST SIGN AND DATE THIS SHEET					

BID - SCHEDULE OF ITEMS
City of Cleveland
Division of Purchases And Supplies
128 City Hall
Cleveland, Ohio 44114

BID PAGE 2 of 4

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COMPLETE & SIGN BELOW**

TITLE OF BID	AUTHORIZED SIGNATURE

ORDINANCE NO.	PASSED	EFFECTIVE	DATE
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DEPARTMENT	DIVISION
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PORT CONTROL	
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CITY RECORD ADVERTISEMENT DATES	STANDARD CONTRACT BID
	<input checked="" type="checkbox"/> REQUIREMENT CONTRACT BID

BUYER	BID OPENING	12:00 O'CLOCK NOON
purchasing@clevelandohio.gov		Official Time
Fax Number (216) 664-2177		

		QUANTITY/ ALLOWANCE	UNIT	PER HR/UNIT RATE	EXTENSION
8	Material and Installation of Dowel Bar Baskets 1"	50	EA		
9	Material and Installation of Dowel Bar Baskets 1-1/4"	50	EA		
10	Fiber Reinforcing Added to Concrete Mix	500	CU YD		
11	Sealcoating	500	SQ YD		
12	Crack Sealing	50,000	LIN FT		
13	Joint Sealing	50,000	LIN FT		
14	Four inch concrete sidewalk, including removal and disposal of existing sidewalk, complete in place.	1,500	SQ FT		
15	Six inch concrete driveway or apron, including removal and disposal of existing driveway or apron, complete in place.	1,500	SQ FT		

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City of Cleveland
Division of Purchases And Supplies
128 City Hall
Cleveland, Ohio 44114

BID PAGE 3 of 4

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ORDINANCE NO.	PASSED	EFFECTIVE	DATE
DEPARTMENT PORT CONTROL		DIVISION	
CITY RECORD ADVERTISEMENT DATES		STANDARD CONTRACT BID	
		<input checked="" type="checkbox"/> REQUIREMENT CONTRACT BID	
BUYER		BID OPENING	
purchasing@clevelandohio.gov		12:00 O'CLOCK NOON	
Fax Number (216) 664-2177		Official Time	

DESCRIPTION					
		QUANTITY/ ALLOWANCE	UNIT	PER HR/UNIT RATE	EXTENSION (Quantity x Unit Price)
16	Eight inch concrete driveway or apron, including removal and disposal of existing driveway or apron, complete in place.	1,500	SQ FT		
17	Integral radius curb and walk, including handicap ramps, Type I or II, including removal and disposal of existing curb and/or sidewalk, complete in place.	150	SQ FT		
18	Handicap ramps Type I or II, Including removal and disposal of Existing curb and/or sidewalk, Complete in place. (the Handicap ramps are to be constructed outside of the area where integral radius curb and walk is constructed.)	5	RAMPS		
19	Cast-in-place concrete curb, including removal and disposal of existing curb, complete in place.	1,500	LIN FT		
20	Integral concrete curb, including removal and disposal of existing curb, complete in place.	1,500	LIN FT		
21	Concrete curb with underdrain, complete in place	50	LIN FT		
22	Six inch perforated/ non-perforated pipe, ASTM D2729. Porous backfill AASHTO H43, complete in place.	400	LIN FT		
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DEPARTMENT	DIVISION				
PORT CONTROL					
CITY RECORD ADVERTISEMENT DATES	STANDARD CONTRACT BID				
	X REQUIREMENT CONTRACT BID				
BUYER	BID OPENING	12:00 O'CLOCK NOON			
purchasing@clevelandohio.gov		Official Time			
Fax Number (216) 664-2177					
		QUANTITY/ ALLOWANCE	UNITS	PER HR/UNIT RATE	EXTENSION
23	Quikrete Concrete Mix or approved equivalent	250	BAGS		
24	Cold Weather Concrete Mix (50lb bag)	100	BAGS		
25	Cement Mix Accelerator (1 gallon container)	50	CONTAINER		
26	Rental of Wirtgen W 50 Ri / W 60 Ri (or equivalent).				
	a. Daily	50	DAYS		
	b. Weekly	15	WEEKS		
	c. Operator	100	HOURS		
27	Flag Personnel	100	HOURS		
28	P-621- Saw Cut Grooves	2000	SQ YRDS		
29	Miscellaneous Items Allowance	\$50,000.00			\$50,000.00
30	Calculation of Allowance for Abnormal Start Time (from worksheet)				
ALL QUANTITIES ARE APPROXIMATE AMOUNTS. THE CONTRACT, IF ANY, SHALL BE FOR A PERIOD OF TWO YEARS, WITH TWO ONE-YEAR OPTIONS TO RENEW.		Total Bid		\$	
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APPENDIX A

NAME OF FIRM _____
ADDRESS _____
CITY/STATE/ZIP CODE _____
AUTHORIZED SIGNATURE _____
DATE _____

RESTORATION OF PAVEMENT FOR THE DEPARTMENT OF PORT CONTROL

WORKSHEET FOR CALCULATION OF ALLOWANCE FOR ABNORMAL START TIME- CONCRETE

I. Subtotal of Concrete items 1 through 25----->	\$ _____
II. 10% of work estimated with abnormal start time (Item I x 10%)----->	\$ _____
III. Contractor Premium (%) for abnormal start time----->	_____ %
Allowance for abnormal start time ----->	\$ _____
(Item II x Item III)	(place on bid item #30)

**DETAILED SPECIFICATIONS/DESCRIPTIONS
OF PRODUCTS AND/OR SERVICES
Ordinance No. 1253-2025**

Authorizing the purchase by one or more requirement contracts of labor and materials necessary for constructing, repairing, maintaining, removing, replacing, disposing, and installing concrete surfaces and structures on roadways, taxiways, runways, ramps and other paved surfaces, for the various divisions of the Department of Port Control, for a period of one year with three one-year options to renew, exercisable by the Director of Port Control.

In the event of a conflict between these Detailed Specifications and the General Conditions, these Detailed Specifications will control.

PART D - DETAILED SPECIFICATIONS

D-1 SCOPE OF WORK

The City of Cleveland, Department of Port Control, proposes to secure by requirement contract constructing, excavating, installing, maintaining, sealing, repairing, replacing, and disposing of concrete, concrete surfaces, and concrete structures and appurtenances on runways, taxiways, ramps, passenger boarding bridge foundations, parking areas, sidewalks, roadways, catch basins, and other surfaces for the various divisions of the Department of Port Control. The type of work to be furnished under the terms of these bid specifications are set forth in the attached schedule of items.

D-2 DISPOSAL OF WASTE MATERIALS

The Successful Bidder shall comply with all present and future environmental laws and other laws, ordinances, orders, directives, codes, rules and regulations of the federal, state and local governmental agencies, including those of the City of Cleveland, which may be applicable to the Successful Bidder's operations at the Airport.

D-3 GRADING

Grading shall include all excavation, fill and embankment required to permit the construction of the sidewalks, driveways, aprons and handicap ramps to the designated lines and grades. Unless otherwise specified all work shall conform to the Ohio Department of Transportation's construction and materials specifications.

A. Excavation

1. Except as otherwise ordered the cost of all excavation to a total depth of the full thickness of the proposed slab shall be included in the price of the sidewalks, driveways, aprons, handicap ramps, curbs and integral radius curbs and sidewalks, complete in place. Excavation shall include the removal and proper disposal of all concrete, stone, earth, roots and

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material of every description off Airport. Use of these materials for fill or otherwise elsewhere on the Airport is prohibited.

2. This excavation shall extend one (1) foot on either side of the sidewalks, driveways, aprons, handicap ramps, curbs and integral radius curbs and sidewalks.
 3. Except as otherwise ordered, excavation to the elevation of the finished grade of the walk shall extend one (1) foot beyond each edge of the sidewalks, driveways, aprons, handicap ramps, curbs and integral radius curbs and sidewalks and then on a slope of one (1) vertical to one and one half (1½) horizontal. When directed by the Department's authorized representative, the excavation shall extend to a sufficient width to permit proper drainage.
 4. The Successful Bidder shall use extreme care in the removal of sidewalks, driveways, aprons, handicap ramps, curbs and integral radius curbs and sidewalks to ensure that no adjacent slabs beyond those marked for removal by the Department's authorized representative will be disturbed, removed or damaged. Should any adjacent sidewalk, driveway, apron, handicap ramp, curb and integral radius curb and sidewalk be damaged, either in whole or in part, the Successful Bidder shall replace the damaged slab at its own expense.
- B. Fill or Embankment
1. Fill or embankment material shall consist of sand and meet shall the following requirements:
 - a. The material shall be substantially free from vegetable or organic matter and shall contain not more than ten percent (10%) loam or clay.
 - b. The material shall weigh not less than ninety (90) pounds per cubic foot, dry compacted weight.
 2. Fill shall extend at least one and one-half feet (1½') beyond each side of the sidewalks, driveways, aprons, handicap ramps, curbs and integral

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radius curbs and sidewalks unless otherwise instructed, in writing, by the Department's authorized representative. Side slopes shall be trimmed to a slope on one inch (1") vertical to one and one-half inches (1½") horizontal except as otherwise directed, in writing, by the Department's authorized representative

3. Fill shall be applied sufficiently in advance of construction to allow for settlement and the fill material shall be thoroughly compacted by tamping, rolling, or both, so as to produce a solid, dense sub-grade.
4. It shall be the Successful Bidder's responsibility to raise all utility valves and castings to finished grade. Cost of adjusting the valves and castings to finished grade shall be included in the cost of the project.

D-4 CONCRETE

This work consists of constructing a Portland cement, types I, II, or III, concrete base or surface.

- A. All concrete shall be tested as specified in Section D-11. The average strength of the concrete shall equal or exceed 4,000 psi. Any average which fails to equal or exceed 4,000 psi for a twenty-eight (28) day strength shall be rejected. Any concrete which is rejected shall be removed and replaced by the Successful Bidder at its own expense.
- B. All concrete delivered to the construction site shall be accompanied by dray slip. The dray slips shall contain all of the information required by ASTM C-94-74-A, paragraph 15-batch ticket information. Any concrete delivery which is not accompanied by a properly completed dray slip shall be rejected.
- C. Concrete truck shall conform to A.A.S.H.T.O. M157, Sections 8.1, 8.2, 8.3, 9.2, 9.4, and 9.5. The slump and percentage of entrained air shall conform to the concrete mix design section of these detailed specifications. Any truck delivery concrete which does not meet these specifications shall be rejected.
- D. Any truck rejected from the construction site shall also be banned from all construction sites at the Airport for the remainder of the work day.
- E. ODOT 305 CONCRETE - COMPLETE IN PLACE

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1. Description:

This work consists of constructing a Portland cement concrete base or surface as specified herein.

2. Construction:

The requirements of ODOT Item 451 apply, except as follows:

- a. Does not comply with the requirements of 451.07.
- b. Provide dowels at transverse contraction joints in mainline pavement, ramps, acceleration/deceleration lanes, and/or collector/distributor lanes. Dowels for contraction joints in concrete shoulders on mainline pavement, ramps, acceleration/deceleration lanes, and/or collector/distributor lanes are not required unless the contraction joint is located within 500 feet of a pressure relief joint.
- c. Do not place construction joints within 6 feet of another parallel joint.
- d. Modify the curing membrane application rate specified in 451.10 to 200 square feet per gallon of treated pavement surface.
- e. Produce a final surface with a uniform, gritty, longitudinal, or transverse texture using a broom drag in either direction.
- f. Ensure that pavement surface variations do not exceed ¼ inch in 10 feet.
- g. Impressing station numbers into the plastic concrete as specified in 451.09 is not required.

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3. Basis of Payment:

Measurement shall be based on each cubic yard of accepted material complete in place. No additional payment shall be made over the contract unit price for any pavement with an average thickness in excess of that shown on the standard details.

F. CONCRETE INSTALLED PER CITY STANDARDS

This item includes the installation of a Class C mix using a minimum cement content of 650 pounds per cubic yard for concrete pavement. Refer to applicable sections of ODOT Item 452 for this item.

Measurement shall be based on each cubic yard of accepted material complete in place. No additional payment shall be made over the contract unit price for any pavement with an average thickness in excess of that shown on the standard details.

G. FIBER REINFORCING ADDED TO CONCRETE MIX

This item covers fiber-reinforcement per City Standards to be added to the Cleveland 650 or ODOT 305 concrete mixes specified in this contract with the ingredients uniformly mixed. The fiber reinforcement shall be furnished either by batch mixing or continuous mixing, and the concrete mix shall be free of fiber balls when delivered to the site.

Measurement shall be based on each cubic yard of accepted material resulting from the addition of fiber-reinforcement to the Cleveland 650 or ODOT 305 concrete mix. No additional payment will be made over the contract unit price for any pavement with an average thickness in excess of that shown on the standard details.

H. MS-800 CONCRETE INSTALLED PER CITY STANDARDS

This class is a moderate-setting Portland cement concrete for accelerated strength development. Use a minimum cement content of 800 pounds per cubic yard and a maximum water-cement ratio of 0.43. Open the rigid replacement to traffic 24

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hours after concrete is placed provided that test beams have attained a modulus of rupture of 400 pounds per square inch.

Measurement shall be based on each cubic yard of accepted material complete in place. No additional payment will be made over the contract unit price for any pavement with an average thickness in excess of that shown on the standard details.

D-5 CONSTRUCTION

In the context of bid items, "complete in place" refers to the full compensation for all labor, materials, methods or processes, implements, tools, equipment, and incidentals required to furnish and place the specified items of work as required by the provisions of the contract documents. The contractor is responsible for all aspects of the work, including the mobilization, demobilization, and any necessary bonds, insurance, permits, licenses, and fees required during the performance of the work.

Unless otherwise directed by the Department's authorized representative, concrete sidewalks, driveways, aprons, handicap ramps, curbs and integral radius curbs and sidewalks shall consist of one course concrete. Walks shall be four inches (4") thick and driveways shall be six inches (6") thick. Integral concrete radius curbing and sidewalks shall be a minimum of eight inches (8") thick. Eight-inch-thick driveways and aprons shall be installed only when directed, in writing, by the Department's authorized representative. Reinforcing steel shall be installed only when directed, in writing, by the Department's authorized representative.

When maintaining concrete inside the airport, contractors must adhere to FAA Advisory Circular #150/5380-6C (current edition) which provides guidelines and procedures for maintaining airport pavements. When replacing concrete inside the airport, contractors must adhere to FAA Advisory Circular #150/5370-10H (current edition) which relates to materials and methods used for construction on airports. Items covered in this AC include general provisions, earthwork, flexible base courses, rigid base courses, flexible surface courses, rigid pavement, testing, fencing, drainage, turf, and lighting installation.

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Contractors are expected to use AC#150/5380-6C and AC#150/5370-10H as the main guideline to perform all types of repairs from minor to full depth which will include sub-base and base preparation according to FAA regulation and ASTM standard.

P-501 Cement Concrete Pavement.

This work shall consist of pavement composed of cement concrete with reinforcement and without reinforcement constructed on a prepared underlying surface in accordance with these specifications and shall conform to the lines, grades, thickness, and typical cross-sections shown on plans which can be provided by Airport Engineering Services or drawn up by the contractor performing the work. P-501 shall be used for any pavements on grade including individual slab replacements. The terms cement concrete, hydraulic cement concrete, and concrete are interchangeable in this specification.

This specification is to be used for the surface course for airfield rigid pavements subject to aircraft loadings greater than 30,000 pounds. For airfield pavement projects at non primary airports, serving aircraft less than 60,000 pounds (27216 kg), state highway specifications may be used in states where the state has requested and received FAA approval to use state highway specifications.

State highway department material specifications may be used for access roads, perimeter roads, and other pavements subject to aircraft loading less than or equal to 30,000 pounds.

When state highway material specifications are used, include all applicable/approved state specifications in the contract documents. State specifications must include the material requirements of paragraph 501-2.1 in AC#150/5370-10H for reactivity. For all work that requires the use of P-501 concrete refer to AC#150/5370-10H Part 7, Item P-501 Cement Concrete Pavement.

P-610 Concrete

This item shall consist of concrete and reinforcement, as shown on the plans, prepared and constructed in accordance with these specifications. This specification shall be used for all concrete other than airfield pavement which are cast-in-place. Used for airfield signage bases, NAVAID foundations, drainage, and drainage structures.

This Item shall be used for structures, and other miscellaneous airfield concrete other than airfield pavements. For small projects less than 20 cubic yards (15 m³), concrete meeting state department of transportation specifications for structures may be used. For

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all work that requires the use of P-610 concrete refer to AC#150/5370-10H Item P-610 Concrete for Miscellaneous Structures.

A. Forms

1. Forms for concrete sidewalks, driveways, aprons, handicap ramps, curbs and integral radius curbs and sidewalks shall be made of steel.
2. Where standard lengths of steel forms cannot properly be used, wooden forms will be permitted for closure. Wooden forms shall be not less than one and five-eighth inches (1⁵/₈") in thickness and the minimum permitted depth are listed below.
 - a. Sidewalks 4"
Aprons and Driveways 6"
Integral Concrete Radius Curb and Sidewalk 8"
8" Driveway (where directed) 8"

B. Concrete

Concrete for sidewalks, driveways, curbing, apron and handicap ramps shall be job mix concrete.

1. Placing Concrete
 - a. No concrete will be permitted to be poured until the Department's authorized representative has approved the foundation bed.
 - b. No concrete shall be poured unless the Department's authorized representative is on the job site observing the work.
 - c. If any concrete is poured without the prior approval of the foundation bed and/or observation of the work by the Department's authorized representative, the work will not be accepted by the Department for payment.

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- d. Foundation beds shall be sprinkled immediately prior to the pouring of concrete during hot, dry weather conditions.
 - e. If welded steel wire fabric is required, the welded steel wire fabric for concrete reinforcement shall meet the requirements of Section 709.10 of the Ohio Department of Transportation's construction and material specifications.
 - f. Concrete shall be continuously deposited between bulkheads to a uniform thickness and to the full depth and width. The concrete, after being placed, shall be thoroughly compacted and brought to the proper pitch and grade with a template or straight edge.
 - g. No concrete showing segregation or clumps of material shall be deposited in the concrete.
 - h. Immediately prior to the finishing of the surface, the pour shall be cut into slabs no longer than six feet (6') on any one side. The joints shall be formed by a cutting tool or other means satisfactory to the Department. The markings in the surface at these joints shall not be more than one-quarter inch ($\frac{1}{4}$ ') deep. All edges shall be rounded with an approved edging tool to a radius of one quarter inch ($\frac{1}{4}$ ").
 - i. Bidder will be responsible for painting new or replacing traffic markings/line striping as required.
2. Surface Finish
- a. The finishing of the concrete shall immediately follow the placing and compacting of the concrete. Unless otherwise ordered, finish shall be by rubbing with floats. All concrete slabs shall be edged around the entire perimeter unless otherwise directed by the Department's authorized representative. The surface shall be free from depressions and inequities.

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- b. The application of dry cement to hasten drying of the surface is prohibited.
3. White Liquid Film Method
- a. All concrete sidewalks, driveways, aprons, handicap ramps, curbs and integral radius curbs and sidewalks shall be cured by the use of white liquid film. This white liquid shall have 25% to 30% effective solids and meet the requirements of ODOT 705.08 Class 2 (pigmented). A transparent liquid film may be substituted with the prior written approval of the Department's authorized representative.
 - b. The white liquid film shall be used for curing all concrete except concrete to which additional concrete is to be bonded.
 - c. The curing materials shall be applied uniformly by means of any approved pressure spray distributor at the rate of one (1) gallon to each two hundred (200) square feet of surface, and it shall be so applied that the concrete surface is completely coated and sealed in one application. The curing material shall be applied immediately after the concrete surface to be cured has been finished and before any marked dehydration has occurred. After the surface has been coated, it shall be protected from all traffic or abrasive action.
 - d. Complete duplicate spraying outfits shall be on the work site where this method of curing is adopted before the pouring of concrete commences.
 - f. Final curing by the white liquid film method shall be considered to extend for two (2) calendar days from the time the material is applied. During this period, the surface of the concrete shall be protected by barricades from all traffic and work operations.
4. Expansion Joints
- a. Prepared strips of pre-molded fiber expansion material meeting the requirements of Item 705.03 of the Ohio Department of

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Transportation's construction and material specifications shall be one-half inch ($\frac{1}{2}$ ") in thickness and of sufficient width to extend the entire depth of the concrete. The material shall be placed in such a manner that the joint will be filled to within one-half inch ($\frac{1}{2}$ ") of the finished surfaced. Joints shall be constructed at intervals no greater than fifty (50) feet unless otherwise instructed by the Department's authorized representative.

- b. Joints shall be placed where the concrete abuts curbing or other lateral walks along the building line where the walk is laid full width from the curb to the building or other structures, or as otherwise directed by the Department's authorized representative. The edges of all joints so placed shall be rounded. The cost of such expansion joints shall be included in the cost of the project.
- c. Where an expansion joint occurs in the abutting pavement, a three-quarter inch ($\frac{3}{4}$ ") thick prepared strip or pre-molded fiber expansion material, extending entire depth and meeting requirements of the American Association of State Highway and Transportation Officials Specification M153 shall be placed in the curb, in the integral curb and sidewalk, or in the integral radius curb and sidewalk.
- d. Expansion joints shall be placed at every change in depth of concrete.

D-6 EXISTING PAVEMENT

- A. The material to be used in restoring existing pavements shall consist of a 9" non-reinforced job mix "high-early-strength" concrete pavement or a 2" asphalt concrete surface course over a 9" non-reinforced job mix "high-early-strength" concrete foundation conforming to the requirements of Item 404 of the Ohio Department of Transportation's construction and material specifications.
- B. The furnishing and placing of the concrete pavement, concrete foundation and surface course is the responsibility of the Successful Bidder and no additional payment shall be made for any such work.

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D-7 INTEGRAL CONCRETE CURB AND WALK, CAST-IN-PLACE CURB, CONCRETE CURB WITH UNDERDRAIN

A. Materials

Materials shall conform to those specified in Section 609 of the Ohio Department of Transportation's construction and material specifications. The concrete used shall be job mix.

B. Method of Construction

The integral concrete curb and walk, cast-in-place curb, and concrete curb with underdrain shall conform to the City of Cleveland standards. The curb shall be constructed on a thoroughly compacted sub-grade shaped as called for in the plans and to the line and grade to meet the existing conditions in the field or as directed by the Department's authorized representative.

Where a new concrete curb butts up to the existing pavement, a three-quarter inch ($\frac{3}{4}$ ") thick pre-molded expansion strip as specified in Section 705.03, Ohio Department of Transportation's construction and material specifications shall be placed to separate the pavement and curb. The upper one-half inch ($\frac{1}{2}$ ") shall be joint filler.

Where the walk or curb butts up to the existing walk or curb, half-inch ($\frac{1}{2}$ ") thick pre-molded expansion strip as called for under Section 705.03, Ohio Department of Transportation's construction and material specifications shall be placed to separate them.

All curbs, cast-in-place or integral radius curbing and walk installed on streets shall have gutter seal applied as required by the supplement to Ohio State Specifications for the City of Cleveland, Ohio 1975, Section 404.195. The cost of this work shall be included in bid price per linear foot of cast-in-place or integral curb or square foot of integral radius curb and walk. On asphalt or macadam surfaced streets four inch (4") wide gutter seal shall be applied.

Concrete curb with underdrain shall be placed as per ODOT Item 609 except as modified herein. The construction of curb transitions and drop curbs in front of driveways and handicap ramps are incidental to the construction of the curb.

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Payment shall be made for the accepted linear feet of integral concrete curb or free-standing concrete curb measured in place including all work necessary to place underdrains per City Standards. Underdrains shall be placed as per ODOT Item 605.

Measurement shall be based on each linear foot of concrete curb installed. Payment will be made accepted quantities, complete in place, at the contract price.

D-8 SIX INCH DRAIN TILE

When encountering drain tile that is damaged and essential to the drainage of the curb and sidewalk area, the Successful Bidder shall replace those necessary to restore the drainage before the curbing is set.

D-9 HANDICAP RAMPS

- A. The Successful Bidder shall furnish all material and labor for Handicap Ramps as set forth in Detail Plan Nos. M-643 and M-643-A.
- B. When removal of existing concrete pavement, curb, drive, apron, or sidewalk necessitates cutting into the slab prior to removal, the cutting shall be accomplished by use of a suitable concrete power saw which will produce a straight and smooth finish along the sawed edge. The depth of cutting or scoring shall be such that no damage will result to the remaining slab after removal of the designated portion. The Department's authorized representative shall determine the location of all cuts.
- C. The areas indicated for removal and replacement of existing sidewalks are approximate only. A Department engineer shall determine the longitudinal and transverse limits of sidewalk removal in all designated locations in the field.
- D. The furnishing and placing of the concrete walk for the ramps is the responsibility of the Successful Bidder and should be included in the prospective bidder's bid price for each type of construction.

D-10 OBSTRUCTIONS

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Bidders are reminded that there are various types of obstructions in the sidewalk area, which may have to be temporarily relocated during construction. The following protocol shall be used when an obstruction has to be temporarily relocated:

- A. The obstruction shall be moved to temporary location designated by the Department's authorized representative.
- B. The required construction shall be performed in the area occupied by the obstruction.
- C. The obstruction shall be returned to its original location and re-leveled.

The Successful Bidder is responsible for replacing all obstructions damaged by his/her operations.

D-11 TESTING OF CONCRETE

All testing of concrete shall be performed by an independent testing laboratory approved, in writing, by the City.

A. Field Tests

1. Concrete compression tests:

This test shall conform to the standards set forth in ASTM C39. Four concrete test cylinders shall be made in conformity with ASTM C39 or 31-72 from each fifty cubic yards of poured concrete or portion thereof in the event the pour is less than fifty cubic yards. At the time of pouring, a slump test and air entrainment test shall be made in conformity with ASTM C143-78 and ASTM C173-78 (volumetric method) or ASTM C231-78 (pressure method), respectively. The temperature of the concrete shall also be recorded.

One cylinder from each set of four shall be compression tested at seven (7) calendar days and a written report, including results of slump and air entrainment tests, shall be forwarded to the Department's authorized representative within twenty-four (24) hours of the completion of the test.

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The three remaining cylinders shall be tested at twenty-eight (28) calendar days and a written report on each cylinder test and an average result of the three tests shall be forwarded to the Department's authorized representative within twenty-four (24) hours of the completion of the test.

The testing laboratory shall notify the Airport Engineer or his/her designee, by telephone immediately when a seven-day result is 3000 psi or below and when a twenty-eight (28) day test result is below 4000 psi.

2. Concrete core samples for Determination of Concrete Thickness:

The core samples shall conform to and be measured in accordance with ASTM C 42-77 and ASTM 174-49.

3. Coarse aggregate furnished for portland cement concrete shall be obtained from sources with a minimum 20-year documented service history for the proposed gradation with no record of D-cracking. Aggregate sources lacking this history shall not be accepted unless the material currently being produced demonstrates a durability factor of 95 or greater when tested in accordance with ASTM C666, with test results dated within the past 12 months and performed by a State DOT materials laboratory or an accredited testing laboratory. Certification and test data must correspond to the same gradation proposed for use. Coarse aggregates consisting of crushed granite, calcite-cemented sandstone, quartzite, basalt, diabase, rhyolite, or trap rock are considered acceptable for D-cracking resistance but must meet all other quality and gradation requirements of Item P-501.

D-12 GROOVING

The purpose of concrete grooving is to improve vehicle traction and reduce roadway accidents. By cutting patterned grooves into the concrete deck, water is displaced, thus reducing the risk of hydroplaning and improving vehicle control and overall safety. This language is being added to the D specification if the project scope requires grooving on runways, taxiways, ramps and other concrete services.

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P-621 Saw-Cut Grooves.

This item consists of constructing saw-cut grooves to minimize hydroplaning during wet weather, providing a skid resistant surface. Saw-cut grooves are recommended for primary and secondary runways at commercial service airports and for a non-commercial service airport if the runway serves turbojet aircraft and the runway length is 5000 feet or more. For construction methods refer to AC#150/5370-10H Item P-621 Saw-Cut Grooves.

D-13 Flag Personnel

If a job obstructs an intersection, or traffic (landside and airside), or for other special conditions, DPC may direct the Contractor to employ a flag person(s) to direct traffic.

The Contractor will be paid for such services based on the hours the flag person(s) is on the job site. No payment will be made under this item for employment of a flag person(s) when not directed by DPC.

D-14 Preventative Maintenance

This section governs the bid pricing requirements for sealcoating, crack sealing, and joint sealing work. The intent of this specification is to ensure that all cost necessary to furnish a complete and fully operational sealcoating, crack sealing, and joint sealing installation are included in the Contractor bid price. The Contractor shall furnish all labor, materials, equipment, tools, supervision, incidentals, and services necessary to perform sealcoating, crack sealing, and joint sealing work.

Preventative maintenance activity shall be scheduled and performed in a manner that minimizes impacts to airfield operations and applies to all applicable FAA, airport sponsor, and safety requirements.

A. Concrete Seal Coating

Concrete seal coating shall consist of applying a penetrating or fill-forming sealer to exposed concrete surfaces to reduce moisture intrusion, chemical, attack, and surface deterioration.

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1. Concrete surfaces shall be clean, dry and free of curing compounds, oils, rubber deposits, or contaminants prior to application.
2. Sealers shall be FAA-approved or engineer-approved and compatible with airfield operations, including exposure to deicing chemicals and aviation fuels.
3. Application rates shall conform to manufacturer recommendations and be uniform across the treated surface.
4. Seal coating shall not create a slippery surface or adversely affect pavement friction characteristics.
5. Treated areas shall be protected from traffic until the sealer has fully cured.

B. Crack Sealing

Crack sealing shall consist of cleaning and sealing existing cracks in asphalt or concrete pavement to prevent the intrusion of moisture and incompressible materials.

1. Cracks shall be cleaned using compressed air, heat, or mechanical methods to remove debris, vegetation, moisture, and loose material.
2. Sealant material shall be hot-applied or cold-applied, specifically manufactured for pavement sealing and approved for airfield use.
3. Sealant shall be compatible with pavement type and installed in accordance with the manufacturer's recommendations.
4. Overbanding shall be minimized and limited to what is necessary to ensure proper adhesion and performance.
5. Cracks exhibiting excessive movement, spalling or structural failure shall not be sealed and shall be reported to the airport sponsor for further evaluation.

C. Joint Sealing

Joint sealing shall consist of cleaning and sealing existing joints in concrete pavement to maintain joint integrity and prevent water infiltration.

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1. Existing joint sealant shall be removed where deteriorated, de-bonded, or missing.
2. Joints shall be cleaned by saw cutting, routing, sandblasting, or compressed air to ensure clean, dry joint faces.
3. Joint sealant material shall be a self-leveling or non-sag elastomeric sealant suitable for airfield pavements and approved by the airport sponsor.
4. Sealant shall be installed to the proper depth and width in accordance with manufacturer recommendations and applicable standards.
5. Sealed joints shall be flush with the pavement surface and free of excess material.