PROPOSED DRIVE AND PARKING AREA
BRADFORD EXEMPTED VILLAGE SCHOOL DISTRICT

Work for this project includes excavation, subgrade compaction, curb construction, placement and compaction of aggregate base, installation of 12" x 32' reinforced concrete conduit and paving with asphalt concrete.

Unit prices shall govern payment on this project. Contractor shall furnish tickets for aggregate, asphalt, concrete, and conduit for payment. Payment shall be made at the unit prices bid.

Parking Area: area: 39' x 99' which equals 3861 sq. ft. or 429 sq. yds.
Curb, as per plan, shall be installed on the North and West sides, adjacent to the present concrete sidewalk, with a total length of 124 lineal feet. The curb shall be monolithic, Class C concrete, 6 inches in width and 18 inches in height, with a 1" radius on the face and with ¼" expansion joint material placed between the curb and existing sidewalk. Pavement build-up shall consist of 3 inches of 404 LV asphalt, in two equal lifts, over 10 inches of compacted aggregate (Spec. 304 or 411).
Aggregate base shall be placed to extend six (6) inches beyond finished pavement at all non-curbed areas.

Base for parking area: 39' x 99' x 0.83' / 27 = 119 cu. yd. + 140' x 0.5' x 0.83' / 27 = 2 c.y. = **121 cu. yd.**
Excavation for parking area: 39' x 99' x 1.3' / 27 = **186 cu. yds.**
Pavement for parking area: 39' x 99' x 0.25' / 13.5 = **72 tons**

Proposed Drive: Shall be constructed after excavation, on a compacted subgrade with a compacted aggregate base, 12 feet in width, and covered with two 1-1/2" lifts of spec. 404 LV asphalt concrete, 10 feet in width.
Pavement cross-slope shall be 3/16"/ft. or 0.0156 ft./ft., drained to the North.
10' radii shall be constructed at the East junction of the present asphalt lot, and on the North side where the proposed drive meets the proposed parking area.

Base for drive: 352' x 12' x 0.83' / 27 = **130 cu. yd.**
Excavation for drive: 352' x 12' x 1.08 / 27 = **170 cu. yd.**
Pavement for drive: 352' x 10' x 0.25 / 13.5 = 66 tons + 6 tons = **72 tons**

At Station 2+77 of the proposed drive, **32 feet** of 12" RCP, Class 4, shall be installed in line with the present swale.

Layout, existing and proposed grades are shown on the plan.
Benchmark for the project is a PK nail in present pavement at station 3+52 at an assumed elevation of 100.00.

Access for materials and equipment to the project shall be as directed by Bradford School.
Underground utilities shown on plan: sewer and water lines cross the proposed drive at or about Station 3+10 and are over 5' deep, according to Bradford School. Underground electric located under the proposed parking area at the West side is of an unknown depth.

Disposal of all excavated earth shall be on-site as directed by Bradford School personnel.

PROPOSED DRIVE AND PARKING AREA
FOR
BRADFORD EXEMPTED VILLAGE SCHOOL DISTRICT

ESTIMATED QUANTITIES AND BID DOCUMENT

THIS PROJECT IS NOT SUBJECT TO PREVAILING WAGE REGULATIONS.
ALL BID AND PERFORMANCE BOND REQUIREMENTS WILL BE MANDATED PER ORC 153.54

NOTE: COMPLETION DATE FOR THIS PROJECT SHALL BE OCTOBER 1, 2024 WITH LIQUIDATED DAMAGES OF $750.00 PER DAY THEREAFTER.

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
203	EXCAVATION	356	CU. YD.	$_____	$_____
SPEC.	CURB AS PER PLAN	124	LIN. FT.	$_____	$_____
603	12" RCP CONDUIT	32	LIN. FT.	$_____	$_____
304/411	AGGREGATE BASE	251	CU. YD.	$_____	$_____
448	404LV ASPHALT	144	TONS	$_____	$_____
SPEC	MOBILIZATION	LUMP	LUMP	$_____	$_____

TOTAL BID: $_____

CONTRACTOR:

NAME _____

ADDRESS _____

PHONE: _____

EMAIL: _____

2024
ASPHALTIC CONCRETE SPECIFICATIONS FOR DARKE COUNTY ROADS
(Darke 404-LV, as per plan)

SIEVE	% PASSING
1-1/2"	100
1"	100
3/4"	100
1/2"	100
3/8"	96
#4	72
#8	53
#16	37
#30	26
#50	16
#100	9
#200	4.2

blows (50) (Marshall) Medium

JMF AC CONTENT DETERMINATION

Optimum AC Content @ Median Voids: 6.8%

For RAP Design (%): 5.9 Virgin AC + 0.9 RAP AC = 6.8%
RAP AC = 4.3%

Virgin AC: PG 58-28 from ODOT's approved supplier list

Compaction Temperature (+/- 5 deg. F.) 290

Fines/Asphalt Ratio: 0.61
Fifty/Thirty Value: -2

COARSE AGGREGATE:

SIZE	%	TYPE
#8	25	Limestone

FINE AGGREGATE:

SIZE	%	TYPE
Manufactuted Sand	30	Limestone
Natural Sand	25	Gravel

Note: 50% of fine aggregate shall be natural sand.

RAP:

%	DESCRIPTION
25(max.)	Rap extended method 2 per ODOT 401.04-2

AT OPTIMUM AC CONTENT:

STABILITY: 2440 FLOW: 10.9 Max. Theoretical Density (min. 92%) 154.7

MAX THEORETICAL: 2.479 VMA: 16.2 Bulk Theoretical Density (min. 96%) 150.8

Gsb: 2.671 % AIR VOIDS 2.5 Unit Weight Yield (T/CY) 2.036

TESTING: The contractor shall test the asphaltic material for composition and liquid asphalt content. The test results shall be forwarded to the Bradford School Superintendent as soon as completed.

PLAN
Proposed Drive and Parking Area
Bradford School