

# INTERAGENCY QUALITY ASSURANCE COMMITTEE (IQAC) *Offsite Inspection and Testing*

## Use of Native Soils as Type III Backfill Material



1.0 **PURPOSE:** This policy establishes the guidelines by which the IQAC will review and approve the use of Native Soils as Type III Backfill Materials.



2.0 **REFERENCE CODES AND STANDARDS:**

2.1 **Clark County Standard Specifications & Drawings:** Section 207 "Structural Backfill", Section 208 "Trench Excavation and Backfill" and Section 704 "Base Aggregates".



2.3 **Other:** NRS 338.176, NAC 625.550, most current ASTM, AASHTO, NDOT test procedures as indicated in applicable section of Uniform Standard Specifications.

3.0 **STATEMENT OF POLICY:**

### SUBMITTAL

Submittal format shall be completed in accordance with the current IQAC procedure and in compliance with the NRS 338.176 and NAC 625.550 statutes.



The project developer or their representative shall submit a transmittal letter to the IQAC jurisdictional agency requesting the review and approval of the materials report and/or recommendation for the proposed use of the material on the project. A written response will be issued. During the review process, the contractor may proceed, at his or her own risk, if approved to proceed by the agency and the submittal includes an approval recommendation from the responsible engineer.



### REPORT

The report must be prepared by, or under the direction of, a Professional Engineer registered in the State of Nevada. The report shall include a plot plan showing the locations of the samples obtained and tested, the limits of the area(s) recommended for acceptance, the test data supporting the recommendations and any limitations to the



recommendations for acceptance. The report must be signed and stamped by the responsible engineer.

### SAMPLING AND TESTING

Material shall be tested as follows:

- The use of native soils as Type III Aggregate Base Materials for the pipe zone shall meet the requirements of the Clark County Uniform Standard Specifications Section 208.
- A moisture-density value and curve must be determined for each soil type present. The AASHTO Method T180<sup>1</sup> shall be used.
- Sampling is required at a minimum frequency of 1 per cumulative 1000 linear feet and fraction thereof. Minimums of two (2) samples are required for each project.
- The material must be obtained and tested by an approved laboratory. The most current ASTM, AASHTO, NDOT test procedures shall be used. Testing requirements shall be from the applicable sections of the Uniform Standard Specifications.
- Placement and compaction must be in compliance with the Clark County Uniform Standard Specifications.
- Approval to use native soils, as Type III Aggregate does not constitute acceptance of the material. All construction materials are subject to inspection and/or testing by the responsible agency personnel. Any material that does not conform to the engineering characteristics of those materials approved for use shall be removed and replaced with acceptable material.

#### **4.0 REPORTING TO INCLUDE THE FOLLOWING:**

- Recommendation of the Engineer
- Sieve results
- Plastic Index results
- Liquid Limit
- Total Soluble Sulfates
- Proctor values with curve and rock correction procedure

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<sup>1</sup> Refer to the IQAC Revision to AASHTO Standard Test Method T180 policy statement dated September 11, 2000

- Plot plan of road and streets with sample locations identified
- Report stamped by the Professional Engineer of record

If testing provided by another laboratory, that data needs to be stamped by that laboratory engineer and included in the report

**5.0 EFFECTIVE DATE:**

EFFECTIVE DATE: March 01, 2002

**6.0 SIGNATURES**

 12/12/01

Daniel W. Muirhead, P. E.      Date  
City of Las Vegas  
Construction Services Superintendent

 12-12-01

Gary Johnson      Date  
Asst Super Construction Services  
Testing



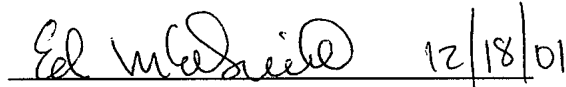
Ken Divich      Date  
Construction Services Supervisor  
City of North Las Vegas

 12-13-01

Dale Daffern, P. E.      Date  
Construction Services Manager  
City of North Las Vegas

 29 Nov 01

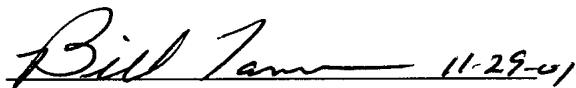
Michael Dunning, P. E.      Date  
Quality Assurance Supervisor  
Clark County Public Works  
Construction Division

 12/18/01

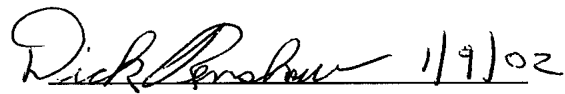
Ed McGuire, P. E.      Date  
Quality Control Engineer  
City of Henderson

 11-29-01

Andy Orosco      Date  
Materials Testing Supervisor  
City of Henderson

 11-29-01

Bill Tanner      Date  
Date Public Works Director  
City Of Mesquite

 1/9/02

Dick Renshaw      Date  
Boulder City

**6.0 SIGNATURES**

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Daniel W. Muirhead, P. E.                      Date  
City of Las Vegas  
Construction Services Superintendent

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Gary A. Johnson                      Date  
Asst Super Construction Services  
Testing

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Ken Divich                      Date  
Construction Services Supervisor  
City of North Las Vegas

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Dale Daffern, P. E.                      Date  
Construction Services Manager  
City of North Las Vegas

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