

Memo

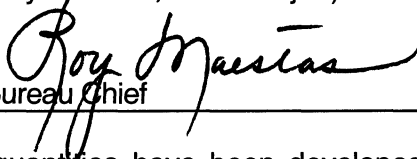
New Mexico State Highway & Transportation Department

SUBJECT: Design Directive
3-2002-Design (Earthwork)

DATE: 12-September-2002

TO: Internal Project Development Engineers-North
(Ed Escudero, Dan Garcia, Sixto Martinez, Robert Garcia)
Internal Project Development Engineers-South
(Mark Fahey, Benny Martinez, David Trujillo)

FROM: Roy P. Maestas
Internal Design Bureau Chief



FILE REFERENCE:
PSESHARE:Design Directives

In past projects, earthwork quantities have been developed from BOP to EOP without taking into consideration the Suggested Sequence of Construction. This has resulted in significant overruns/underruns during construction. As a result, you are hereby directed to provide the following:

On the earthwork schedule included in the plans:

- Establish earthwork quantities in accordance with the suggested sequence of construction. A suggested sequence of construction is required on all projects to ensure constructability of the project. In the event that the Traffic Control is established using the Lump Sum item, a suggested sequence of construction is still required.
- Removal of Surfacing is to be included as Unclassified Excavation unless the Removal of Surfacing item is established. Include comments on the earthwork schedule to indicate that removal of surfacing is included in the Unclassified Excavation.
- Expand the earthwork schedule to indicate the earthwork required in accordance with the suggested sequence of construction.

Attached is a working document for your information and use on formatting the earthwork schedule.

As a reminder, the Design Directives reside in the PSESHARE drive. To map the drive, open Explore. Click on Tools and then click on Map Network Drive. Select an available drive. In the Path field, enter \\htdvms\pseshare. You now have access to the PSESHARE drive. In addition to the Design Directives folder, the PSESHARE drive contains other data such as Letting Information (i.e. project information), Invitation for Bids, Bid Tabulations, etc.

This design directive resides in the Design Directive folder in the PSESHARE drive.

Attachment

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EARTHWORK SCHEDULE

**EARTHWORK QUANTITIES BASED ON
SUGGESTED SEQUENCE OF CONSTRUCTION**

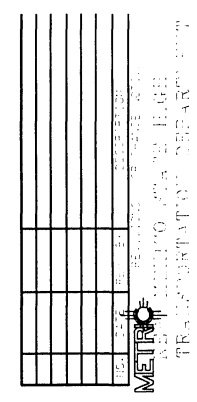
ITEM NO. 203301 20% ITEM NO. 203000 15% ITEM NO. 203100

SEE SHT. - FOR COMPLETE SUGGESTED SEQUENCE OF CONSTRUCTION

DESCRIPTION	ROCK EXC. CU. M.	SWELL CU. M.	EXCAVATION CU. M.	EMBANKMENT CU. M.	SHRINK CU. M.	HAUL TO HAUL FROM CU. M.	BORROW CU. M.	EXCESS CU. M.	REMARKS												
PHASE I																					
1). EXTEND EXISTING STRUCTURES ON PROPOSED DETOURS UTILIZING TRAFFIC CONTROL PLAN SHT. 6-6.																					
1a). EXTEND REMAINING EXISTING STRUCTURES AND BUILD TURNOUTS UTILIZING TRAFFIC CONTROL PLAN SHT. 6-6 & SHT. 6-6a.																					
1b). BUILD NEW & REPLACE STRUCTURES UTILIZING ONE LANE CLOSURES W/ PILOT CAR AND TRAFFIC CONTROL PLAN SHT. 6-7.																					
PHASE II																					
2). BUILD TWO LANE DETOUR 1 AT ST. 42+680.00 TO STA. 43+522.26 UTILIZING TRAFFIC CONTROL PLANS SHT. 6-7 & SHT. 6-8.																					
2a). STA. 42+825 TO STA. 42+875 LT. PRE-SPLIT & BLAST SHT. 6-15																					
STA. 43+060 TO STA. 43+160 RT. PRE-SPLIT & BLAST SHT. 6-15																					
STA. 43+160 TO STA. 43+380 LT. & RT. PRE-SPLIT & BLAST SHT. 6-15																					
2b). BUILD NEW VERTICAL ALIGNMENT, RECONSTRUCTION TYPICAL, STA. 42+840.0 TO STA. 43+360.00 UTILIZING TRAFFIC CONTROL PLANS SHT. 6-8.																					
PHASE III																					
3). BUILD TWO LANE DETOUR 2 AT ST. 47+960.00 TO STA. 48+960.94 UTILIZING TRAFFIC CONTROL PLANS SHT. 6-7 & SHT. 6-8.																					
3a). BUILD NEW VERTICAL ALIGNMENT, RECONSTRUCTION TYPICAL, STA. 48+120.0 TO STA. 48+380.00 UTILIZING TRAFFIC CONTROL PLANS SHT. 6-8.																					
PHASE IV																					
4). STA. 42+400 TO STA. 42+505 LT. PRE-SPLIT & BLAST PLAN SHT. 6-15																					
STA. 44+080 TO STA. 44+200 LT. & RT. PRE-SPLIT & BLAST SHT. 6-15																					
4a). BUILD SHOULDERS ON REHABILITATION TYPICAL SECTION TO THE TOP OF FIRST PWB LIFT UTILIZING TRAFFIC CONTROL PLAN SHT. 6-7.																					
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">ROADWAY PROJECT TOTAL =</td> <td style="width: 10%;">13064</td> <td style="width: 10%;">50086</td> <td style="width: 10%;">0</td> <td style="width: 10%;">46262</td> <td style="width: 10%;">EXCESS</td> </tr> <tr> <td>ROADWAY PROJECT USE =</td> <td>13100</td> <td>50100</td> <td>0</td> <td>46262</td> <td>PROJECT TOTAL</td> </tr> </table>										ROADWAY PROJECT TOTAL =	13064	50086	0	46262	EXCESS	ROADWAY PROJECT USE =	13100	50100	0	46262	PROJECT TOTAL
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REFERENCE GENERAL NOTE NO. 2 OF PLANS FOR "R" VALUE MATERIALS.

EXCAVATION	67878	EMBANKMENT	38660
ROCK	19036	SHRINK	5799
SWELL	3807	EXCESS	46262
	90721	BORROW	2344
	90721		90721



EARTHWORK SCHEDULE