SPECIFICATIONS & PLAN NOTES

GRAVEL SURFACING WORKSHOP

JANUARY 26, 2022

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HOW DO YOU GET WHAT YOU WANT AND HOW DOES THE CONTRACTOR KNOW WHAT YOU WANT?

- "CLEAR" Specifications
 - Shows your intention of what you want or what you expect
 - But can be difficult write



SPECIFICATIONS

- Spec Book
- Special Provisions
- Plan Notes



SPEC BOOK

• Contains the gradation (Table 816-01) for Class 13, not Gravel Surfacing

- There is no PI requirement for Class 13
 - Spec 302 Code 160 Ton
 - Spec 302 Code 161 CY

Table 816-01 Miscellaneous Aggregates										
Sieve Size Or Testing Method	Aggregate Class									
	2	3	3M	4	5	7	8	13		
	Percent Passing or Testing Requirement									
3 inch	8 S	100	81010		S	- A	0.1	0		
1-1/2 inch	i i		2				100			
1 inch	i i		100		100	100		100		
3/4 inch	100	80-100	80-100	100	90-100	95-100	8	70-100		
1/2 inch						85-100				
3/8 inch	50-95		8	2	2	60-90	0	0		
No. 4	8	35-85	35-85	35-85	35-70	15-25	35-80	38-75		
No. 8						2-10	800.000 0	22-62		
No. 10	0-15		s 2	ŝ	a a		2			
No. 30	0-4	20-50	20-50	10-50	16-40		6	12-45		
No. 200		0-15	4-10	7-17	4-10	0-3		7-15		
ND T 113, Shale (max %)	9. S	12.0%	12.0%	15.0%	12.0%	8.0%	20.0%	12.0%		
AASHTO T 96, L.A. Abrasion (max %)			e v	50%	50%	40%		50%		
NDDOT 4, Fractured Faces ¹				10%	10%	85%		10%		



SPECIAL PROVISION

• SSP 6

- Used for Gravel Surfacing
 - Spec 350 Code 500 Ton (in-place)
 - Spec 350 Code 501 CY (in-place)
 - Spec 350 Code 600 Ton (Stockpiling)
 - Spec 350 Code 601 CY (Stockpiling)
- Contains PI requirement
- Contains bonus/deduct

Sieve Size Or Testing Method	Aggregate Gravel Surfacing		
	Percent passing or Test Limit		
1"	100		
3/4"	70 – 100		
No. 4	38 – 75		
No. 8	22 - 62		
No. 30	12 - 45		
No. 200	7 - 15		
Plasticity Index (PI)	3 - 9		
ND T 113, Shale (max %)	12.0%		
AASHTO T 96, L.A. Abrasion (max %)	50%		
NDDOT 4, Fractured Faces ¹	10%		

Table 1				
PI Average	Pay Adjustment Factor			
> 9.1	Non Acceptance			
7.1 – 9.0	1.0			
4.0 - 7.0	1.05			
3.0 - 3.9	1.0			
2.0 - 2.9	0.85			
< 1.9	Non Acceptance			

PLAN NOTE

- Used for Gravel Surfacing
 - Spec 350 Code 500 Ton (in-place)
 - Spec 350 Code 501 CY (in-place)
- Contains PI requirement
 - May alter gradation
- May contain bonus/deduct
- Can alternate acceptance requirement

	Gravel Surfacing					
	Sieve Size or Testing Method	Percent Passing or Testing Requirement				
	1″	100				
	3/4"	90-100				
	3/8"	50-90				
	No. 4	38-75				
	No. 8	22-62				
	No. 30	12-45				
	No. 200	8-15				
	% Shale and Soft Rock	Max. 12%				
	L.A. Abrasion Loss	Max. 50%				
_	Plasticity Index	4-8%				
	Fractured Faces	10%				

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QUESTIONS



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