

Pay Plan Quantity

Design Training - NetMeeting
Bureau of Highway Construction
September 2004



Pay Plan Quantity

Training Topics

- Objective
- Specification
- Selecting Bid Items
- Estimator & Transport Instructions
- Rollout - Implementation

Pay Plan Quantity

What is our objective?

- Pay Plan Quantity is one of several WisDOT initiatives to streamline contract administration.
- For selected bid items, Pay Plan Quantity will:
 - Eliminate field measuring
 - Eliminate time spent resolving minor quantity variations

Pay Plan Quantity

Standard Specifications

Section 109 - Measurement and Payment, establishes the general contractual requirement that WisDOT pays for all work acceptably completed, based on actual measured quantities.

Pay Plan Quantity

Standard Specifications

- 109.1 was revised in the 2004 Annual Supplement to add mechanism for Pay Plan Quantity
(before letting decision to pay for work without measuring)
- 109.1 still includes mechanism for supplemental agreements
(after construction decision to pay for work without measuring)

Pay Plan Quantity

Key specification elements:

- Pay Plan Quantity items are designated in the schedule of items with ****P****
- Dept will not measure these designated items
- Dept will pay the quantity shown on the schedule of items, unless specified exceptions occur
- If specified exceptions do occur, Dept will make adjustments to the affected quantities

109.1.1.2 Bid Items Designated as Pay Plan Quantity

109.1.1.2.1 General

- ① If the schedule of items designates a bid item with a ****P**** in the item description, the department will not measure that bid item. The department will use the plan quantity, the approximate quantity shown on the schedule of items, for payment unless one or more of the following occurs:
 1. A contract revision partially eliminates, completely eliminates, or affects the quantity for a designated bid item.
 2. The quantity for a designated bid item varies by more than 5 percent from the plan quantity.
 3. A quantity variation causes the value of the work under a designated bid item to vary by more than \$5000 from the bid amount.

109.1.1.2.2 Adjustments for Contract Revisions

- ① The department will adjust the quantity for a designated bid item if the engineer revises the contract under 104.2 either with or without a change order. The engineer will either increase or decrease the affected quantity regardless of the magnitude of the revised work. The department will measure revised work as specified in 109.1.1.1. This adjustment has no impact on potential quantity changes the engineer might make under 109.1.1.2.3.
- ② If the department partially eliminates or completely eliminates a designated item, the department will pay for the designated item as specified in 109.5.

109.1.1.2.3 Adjustments for Quantity Variations

- ① If the actual work performed, excluding contract revisions, exceeds either the quantity threshold of item 2 of 109.1.1.2.1(1) or the value threshold of item 3 of 109.1.1.2.1(1), the engineer will adjust the affected quantity. Either the engineer or the contractor may identify an item for potential adjustment. If the contractor believes a quantity adjustment is necessary, notify the engineer as required under 104.3. Provide sufficient detail on the bid item in question to justify the engineer's review of that quantity. |
- ② The engineer may adjust the quantity by re-computing or measuring all or only those portions of a bid item that vary from the plan quantity. The department will adjust the quantity to account for the entire variation from the plan quantity. If the engineer re-computes or measures only a portion of a bid item, the engineer will determine the quantity for the balance of that bid item based on the unaffected plan quantity.

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Selecting Bid Items

- General Guidance
- Guidance for Various Work Types
- Example Bid Items for Various Work Types

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General Guidance for Selecting Bid Items

Select Bid Items that:

- Can be estimated accurately
- Are not expected to vary beyond spec thresholds during construction
- Are measured linearly or by area
- Can be measured after the fact, i.e., have ability to measure later if needed

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General Guidance for Selecting Bid Items

Do not select Bid Items that are:

- Measured by volume or weight
 - Especially large quantities
 - Items with expansion factors

(Note exception for structures, where volume and weight items are recommended)

- Shown on plans as undistributed quantities

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General Guidance for Selecting Bid Items

Do not select Bid Items that:

- Traditionally have varied beyond the spec thresholds
- Are for repair or rehab work

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General Guidance for Selecting Bid Items

There is not much value in selecting:

- Lump sum items
- Each items with small quantities

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Guidance for Various Work Types

- Concrete
- Asphalt
- Grading, Landscaping, and Sewer
- Structural
- Traffic Control
- Electrical

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Guidance for Concrete:

(See General Guidance)

Do not select:

- Concrete driveways
- Concrete pavement repair
- Spot replacements for curb & gutter and sidewalk

**Pay Plan Quantity
Example Bid Item List**

Work Type: Concrete Bid Items

NOTE: Example Bid Item list provided for clarification of guidance only. Designers are not restricted to the bid items shown.

Item Number	Description	Unit
204.0100	Removing Pavement	SY
204.0130	Removing Curb	LF
204.0140	Removing Gutter	LF
204.0150	Removing Curb & Gutter	LF
204.0155	Removing Concrete Sidewalk	SY
211.0400	Prepare Foundation for Asphaltic Shoulders	STA
211.0500	Prepare Foundation for Base Aggregate	STA
320.0105	Concrete Base 4 Inch	SY
320.0110	Concrete Base 4 1/2- Inch	SY
320.0115	Concrete Base 5 Inch	SY
320.0120	Concrete Base 5 1/2-Inch	SY
320.0125	Concrete Base 6 Inch	SY
320.0130	Concrete Base 6 1/2-Inch	SY
320.0135	Concrete Base 7 Inch	SY
320.0140	Concrete Base 7 1/2-Inch	SY
320.0145	Concrete Base 8 Inch	SY
320.0150	Concrete Base 8 1/2-Inch	SY
320.0155	Concrete Base 9 Inch	SY
320.0160	Concrete Base 9 1/2-Inch	SY
320.0165	Concrete Base 10 Inch	SY
320.0170	Concrete Base 10 1/2-Inch	SY
320.0305	Concrete Base HES 4 Inch	SY
320.0310	Concrete Base HES 4 1/2-Inch	SY
320.0315	Concrete Base HES 5 Inch	SY
320.0320	Concrete Base HES 5 1/2-Inch	SY
320.0325	Concrete Base HES 6 Inch	SY
320.0330	Concrete Base HES 6 1/2-Inch	SY
320.0335	Concrete Base HES 7 Inch	SY
320.0340	Concrete Base HES 7 1/2-Inch	SY
320.0345	Concrete Base HES 8 Inch	SY
320.0350	Concrete Base HES 8 1/2-Inch	SY
320.0355	Concrete Base HES 9 Inch	SY
320.0360	Concrete Base HES 9 1/2-Inch	SY
320.0365	Concrete Base HES 10 Inch	SY
320.0370	Concrete Base HES 10 1/2-Inch	SY
320.0500	Concrete Base Widening	SY
415.0060	Concrete Pavement 6 Inch	SY

**Pay Plan Quantity
Example Bid Item List**

Work Type: Concrete Bid Items

NOTE: Example Bid Item list provided for clarification of guidance only. Designers are not restricted to the bid items shown.

Item Number	Description	Unit
415.0065	Concrete Pavement 6 1/2-Inch	SY
415.0070	Concrete Pavement 7 Inch	SY
415.0075	Concrete Pavement 7 1/2-Inch	SY
415.0080	Concrete Pavement 8 Inch	SY
415.0085	Concrete Pavement 8 1/2-Inch	SY
415.0090	Concrete Pavement 9 Inch	SY
415.0095	Concrete Pavement 9 1/2-Inch	SY
415.0100	Concrete Pavement 10 Inch	SY
415.0105	Concrete Pavement 10 1/2-Inch	SY
415.0110	Concrete Pavement 11 Inch	SY
415.0115	Concrete Pavement 11 1/2-Inch	SY
415.0120	Concrete Pavement 12 Inch	SY
415.1080	Concrete Pavement HES 8 Inch	SY
415.1085	Concrete Pavement HES 8 1/2 Inch	SY
415.1090	Concrete Pavement HES 9 Inch	SY
415.1095	Concrete Pavement HES 9 1/2 Inch	SY
415.1100	Concrete Pavement HES 10 Inch	SY
415.1105	Concrete Pavement HES 10 1/2 Inch	SY
415.1110	Concrete Pavement HES 11 Inch	SY
415.1115	Concrete Pavement HES 11 1/2 Inch	SY
415.1120	Concrete Pavement HES 12 Inch	SY
416.0050	Concrete Pavement Approach Slab	SY
416.0055	Concrete Pavement Approach Slab HES	SY
416.0060	Concrete Pavement Widening	SY
416.0065	Concrete Pavement Widening HES	SY
416.0410	Concrete Pavement Header	SY
416.0415	Concrete Pavement Header HES	SY
416.0905	Concrete Pavement Continuous Diamond Grinding	SY
601.0105	Concrete Curb Type A	LF
601.0110	Concrete Curb Type D	LF
601.0115	Concrete Curb Type G	LF
601.0120	Concrete Curb Type J	LF
601.0150	Concrete Curb Integral Type D	LF
601.0155	Concrete Curb Integral Type J	LF
601.0205	Concrete Gutter 24 Inch	LF
601.0318	Concrete Curb & Gutter 18 Inch	LF
601.0322	Concrete Curb & Gutter 22 Inch	LF

**Pay Plan Quantity
Example Bid Item List**

Work Type: Concrete Bid Items

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Item Number	Description	Unit
601.0331	Concrete Curb & Gutter 31 Inch	LF
601.0342	Concrete Curb & Gutter Integral 18 Inch	LF
601.0344	Concrete Curb & Gutter Integral 36 Inch	LF
601.0405	Concrete Curb & Gutter 18 Inch Type A	LF
601.0407	Concrete Curb & Gutter 18 Inch Type D	LF
601.0409	Concrete Curb & Gutter 30 Inch Type A	LF
601.0411	Concrete Curb & Gutter 30 Inch Type D	LF
601.0413	Concrete Curb & Gutter 30 Inch Type G	LF
601.0415	Concrete Curb & Gutter 30 Inch Type J	LF
601.0417	Concrete Curb & Gutter 30 Inch Type K	LF
601.0419	Concrete Curb & Gutter 30 Inch Type L	LF
601.0421	Concrete Curb & Gutter 36 Inch Type A	LF
601.0423	Concrete Curb & Gutter 36 Inch Type D	LF
601.0452	Concrete Curb & Gutter Integral 30 Inch Type D	LF
601.0454	Concrete Curb & Gutter Integral 30 Inch Type J	LF
601.0456	Concrete Curb & Gutter Integral 30 Inch Type L	LF
601.0502	Concrete Curb & Gutter Integral 4 Inch Mountable 36 Inch	LF
601.0512	Concrete Curb & Gutter Integral 6 Inch Mountable 36 Inch	LF
601.0552	Concrete Curb & Gutter 4 Inch Mountable 36 Inch Type A	LF
601.0554	Concrete Curb & Gutter 4 Inch Mountable 36 Inch TypeD	LF
601.0556	Concrete Curb & Gutter 6 Inch Mountable 36 Inch Type A	LF
601.0558	Concrete Curb & Gutter 6 Inch Mountable 36 Inch Type D	LF
602.0405	Concrete Sidewalk 4 Inch	SF
602.0410	Concrete Sidewalk 5 Inch	SF
602.0415	Concrete Sidewalk 6 Inch	SF
602.0420	Concrete Sidewalk 7 Inch	SF
603.0105	Concrete Barrier Single-Faced 32 Inch	LF
603.0110	Concrete Barrier Single-Faced 42 Inch	LF
603.0115	Concrete Barrier Single-Faced 51 Inch	LF
603.0205	Concrete Barrier Double-Faced 32 inch	LF
603.0210	Concrete Barrier Double-Faced 42 Inch	LF
603.0215	Concrete Barrier Double-Faced 51 Inch	LF
603.0405	Concrete Barrier Transition Section 32 Inch	LF
603.0410	Concrete Barrier Transition Section 42 Inch	LF
603.0415	Concrete Barrier Transition Section 51 Inch	LF
603.0500	Concrete Barrier Temporary Precast Contractor Furnished & Delivered	LF
603.0600	Concrete Barrier Temporary Precast State Owned Contractor Delivered	LF

**Pay Plan Quantity
Example Bid Item List**

Work Type: Concrete Bid Items

NOTE: Example Bid Item list provided for clarification of guidance only. Designers are not restricted to the bid items shown.

Item Number	Description	Unit
603.0800	Concrete Barrier Temporary Precast Contractor Furnished & Installed	LF
603.0900	Concrete Barrier Temporary Precast State Owned Contractor Installed	LF
620.0100	Concrete Corrugated Median	SF
650.5000	Construction Staking Base	LF
650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF
650.7000	Construction Staking Concrete Pavement	LF
650.7500	Construction staking Concrete Barrier	LF
690.0100	Sawing Existing Pavement	LF
690.0200	Sawing Concrete Pavement Full Depth	LF

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Guidance for Asphalt:

(See General Guidance)

Do not select:

- Patching items

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Example Bid Item List**

Work Type: Asphalt Bid Items

NOTE: Example Bid Item list provided for clarification of guidance only. Designers are not restricted to the bid items shown.

Item Number	Description	Unit
211.0400	Prepare Foundation for Asphaltic Shoulders	STA
325.0100	Pulverize and Relay	SY
330.0100	Mill and Relay	SY
335.0100	Rubblizing	SY
340.0100	Cracking and Seating	SY
455.0600	Tack Coat	TON
455.0605	Tack Coat	GAL
465.0310	Asphaltic Curb	LF
465.0400	Asphaltic Shoulder Rumble Strip	LF
490.0100	Salvaged Asphaltic Pavement	SY
490.0200	Salvaged Asphaltic Pavement Milling	SY

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Guidance for Grading:

(See General Guidance)

Select:

- Common Exc.-rural, if quantity < 20,000 c.y.
- Common Exc.-urban, if typical section is relatively constant

NOTE:

- Plans must still include yardage information
- Can include EBS that is known
- Do not include EBS that is undistributed

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Guidance for Landscaping & Sewer:

(See General Guidance)

Select:

- Seed, sod, and mulch items on small projects only (i.e., small bridge projects)
- Storm sewer items

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Guidance for Landscaping & Sewer:

(See General Guidance)

Do not select:

- Rural drainage items
(encourage use of supplemental agreement based on pipe list)
- Erosion Control Items

**Pay Plan Quantity
Example Bid Item List**

Work Type: Grading & Landscaping Bid Items

NOTE: Example Bid Item list provided for clarification of guidance only. Designers are not restricted to the bid items shown.

Item Number	Description	Unit	Small Quantity
201.0105	Clearing	STA	
201.0110	Clearing	SY	
201.0205	Grubbing	STA	
201.0210	Grubbing	SY	
202.0105	Roadside Clearing (station)	STA	
202.0110	Roadside Clearing	SY	
204.0100	Removing Pavement	SY	
204.0105	Removing Pavement Butt Joints	SY	
204.0109.S	Removing Concrete Surface Partial Depth	SF	
204.0110	Removing Asphaltic Surface	SY	
204.0115	Removing Asphaltic Surface Butt Joints	SY	
204.0120	Removing Asphaltic Surface Milling	SY	
204.0130	Removing Curb	LF	
204.0140	Removing Gutter	LF	
204.0150	Removing Curb & Gutter	LF	
204.0155	Removing Concrete Sidewalk	SY	
204.0160	Removing Lip Curb	LF	
204.0165	Removing Guardrail	LF	
204.0170	Removing Fence	LF	
204.0175	Removing Concrete Slope Paving	SY	
204.0200	Removing Railroad Track	LF	
204.0245	Removing Storm Sewer (size)	LF	
205.0100	Excavation Common	CY	x
208.0100	Borrow	CY	x
208.1100	Select Borrow	CY	x
209.0100	Backfill Granular	CY	x
210.0100	Backfill Structure	CY	x
211.0400	Prepare Foundation for Asphaltic Shoulders	STA	
211.0500	Prepare Foundation for Base Aggregate	STA	
214.0100	Obliterating Old Road	STA	
313.0115	Pit Run	CY	x
612.0104	Pipe Underdrain 4-Inch	LF	
612.0106	Pipe Underdrain 6-Inch	LF	
612.0108	Pipe Underdrain 8-Inch	LF	
612.0110	Pipe Underdrain 10-Inch	LF	
612.0112	Pipe Underdrain 12-Inch	LF	
612.0115	Pipe Underdrain 15-Inch	LF	

**Pay Plan Quantity
Example Bid Item List**

Work Type: Grading & Landscaping Bid Items

NOTE: Example Bid Item list provided for clarification of guidance only. Designers are not restricted to the bid items shown.

Item Number	Description	Unit	Small Quantity
612.0118	Pipe Underdrain 18-Inch	LF	
612.0121	Pipe Underdrain 21-Inch	LF	
612.0204	Pipe Underdrain Unperforated 4-Inch	LF	
612.0206	Pipe Underdrain Unperforated 6-Inch	LF	
612.0208	Pipe Underdrain Unperforated 8-Inch	LF	
612.0210	Pipe Underdrain Unperforated 10-Inch	LF	
612.0212	Pipe Underdrain Unperforated 12-Inch	LF	
612.0215	Pipe Underdrain Unperforated 15-Inch	LF	
612.0218	Pipe Underdrain Unperforated 18-Inch	LF	
612.0221	Pipe Underdrain Unperforated 21-Inch	LF	
612.0404	Pipe Underdrain Wrapped 4-Inch	LF	
612.0406	Pipe Underdrain Wrapped 6-Inch	LF	
612.0408	Pipe Underdrain Wrapped 8-Inch	LF	
612.0410	Pipe Underdrain Wrapped 10-Inch	LF	
612.0412	Pipe Underdrain Wrapped 12-Inch	LF	
612.0415	Pipe Underdrain Wrapped 15-Inch	LF	
612.0504	Pipe Underdrain Wrapped and Plowed 4-Inch	LF	
612.0506	Pipe Underdrain Wrapped and Plowed 6-Inch	LF	
614.0100	Cable Guard Fence	LF	
614.0200	Steel Thrie Beam Structure Approach	LF	
614.0250	Steel Thrie Beam Structure Approach Temporary	LF	
614.0305	Steel Plate Beam Guard Class A	LF	
614.0310	Steel Plate Beam Guard Class B	LF	
614.0340	Steel Plate Beam Guard Over Low-Fill Culverts Class A	LF	
614.0355	Steel Plate Beam Median Guard	LF	
614.0360	Steel Plate Beam Guard Temporary	LF	
614.0400	Adjusting Steel Plate Beam Guard	LF	
614.0500	Salvaged Guard Fence Cable	LF	
614.0555	Salvaged Guard Fence Steel Beam	LF	
615.0100	Guard Fence Timber Rail	LF	
625.0100	Topsoil	SY	x
625.0500	Salvaged Topsoil	SY	x
627.0200	Mulching	SY	x
629.0205	Fertilizer Type A	CWT	x
629.0210	Fertilizer Type B	CWT	x
630.0110	Seeding Mixture No. 10	LB	x
630.0120	Seeding Mixture No. 20	LB	x

**Pay Plan Quantity
Example Bid Item List**

Work Type: Grading & Landscaping Bid Items

NOTE: Example Bid Item list provided for clarification of guidance only. Designers are not restricted to the bid items shown.

Item Number	Description	Unit	Small Quantity
630.0130	Seeding Mixture No. 30	LB	x
630.0140	Seeding Mixture No. 40	LB	x
630.0160	Seeding Mixture No. 60	LB	x
631.1000	Sod Lawn	SY	x
645.0105	Geotextile Fabric Type C	SY	
645.0110	Geotextile Fabric Type DF	SY	
650.4500	Construction Staking Subgrade	LF	
650.5000	Construction Staking Base	LF	
650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	
650.7000	Construction Staking Concrete Pavement	LF	
650.7500	Construction Staking Concrete Barrier	LF	
650.8000	Construction Staking Resurfacing Reference	LF	
650.9900	Construction Staking Initial Layout	LF	

Pay Plan Quantity

Guidance for Structures:

(See General Guidance)

Select:

- Concrete masonry items measured by volume
- Bar steel reinforcement items measured by weight

Do not select:

- Piling Items
- Maintenance or repair items

**Pay Plan Quantity
Example Bid Item List**

Work Type: Structural Bid Items

NOTE: Example Bid Item list provided for clarification of guidance only. Designers are not restricted to the bid items shown.

Item Number	Description	Unit
502.0100	Concrete Masonry Bridges	CY
502.1100	Concrete Masonry Seal	CY
502.2000	Compression Joint Sealer Preformed Elastomeric (width)	LF
502.5002	Masonry Anchors Type L No. 4 Bars	Each
502.5005	Masonry Anchors Type L No. 5 Bars	Each
502.5010	Masonry Anchors Type L No. 6 Bars	Each
502.5015	Masonry Anchors Type L No. 7 Bars	Each
502.5020	Masonry Anchors Type L No. 8 Bars	Each
502.5025	Masonry Anchors Type L No. 9 Bars	Each
502.6102	Masonry Anchors Type S 1/2 Inch	Each
502.6105	Masonry Anchors Type S 5/8 Inch	Each
502.6110	Masonry Anchors Type S 3/4 Inch	Each
502.6115	Masonry Anchors Type S 7/8 Inch	Each
502.6120	Masonry Anchors Type S 1 Inch	Each
502.3200	Protective Surface Treatment	SY
503.0128	Prestressed Girder Type I 28-Inch	LF
503.0136	Prestressed Girder Type I 36-Inch	LF
503.0145	Prestressed Girder Type I 45-Inch	LF
503.0154	Prestressed Girder Type I 54-Inch	LF
503.0155	Prestressed Girder Type I 54W-Inch	LF
503.0170	Prestressed Girder Type I 70-Inch	LF
503.0172	Prestressed Girder Type I 72W-Inch	LF
504.0100	Concrete Masonry Culverts	CY
505.0405	Bar Steel Reinforcement HS Bridges	LB
505.0410	Bar Steel Reinforcement HS Culverts	LB
505.0605	Bar Steel Reinforcement HS Coated Bridges	LB
505.0610	Bar Steel Reinforcement HS Coated Culverts	LB
506.0105	Structural Steel Carbon	LB
506.0605	Structural Steel HS	LB
506.2605	Bearing Pads Elastomeric Non-Laminated	Each
506.2610	Bearing Pads Elastomeric Laminated	Each
506.3005	Welded Stud Shear Connectors 7/8 x 4 Inch	Each
506.3010	Welded Stud Shear Connectors 7/8 x 5 Inch	Each
506.3015	Welded Stud Shear Connectors 7/8 x 6 Inch	Each
506.3020	Welded Stud Shear Connectors 7/8 x 7 Inch	Each
506.3025	Welded Stud Shear Connectors 7/8 x 8 Inch	Each
506.4000	Steel Diaphragms (structure)	Each

**Pay Plan Quantity
Example Bid Item List**

Work Type: Structural Bid Items

NOTE: Example Bid Item list provided for clarification of guidance only. Designers are not restricted to the bid items shown.

Item Number	Description	Unit
506.5000	Bearing Assemblies Fixed (structure)	Each
506.6000	Bearing Assemblies Expansion (structure)	Each
511.3000	Pile Points	Each
514.0440	Floor Drains Type G	Each
514.0445	Floor Drains Type GC	Each
514.0460	Floor Drains Type H	Each
516.0100	Dampproofing	SY
516.0500	Rubberized Membrane Waterproofing	SY
604.0400	Slope Paving Concrete	SY
604.0500	Slope Paving Crushed Aggregate	SY
612.0106	Pipe Underdrain 6-Inch	LF
612.0206	Pipe Underdrain Unperforated 6-Inch	LF
612.0406	Pipe Underdrain Wrapped 6-Inch	LF
614.0150	Anchor Assemblies for Steel Plate Beam Guard	Each
616.0204	Fence Chain Link 4-Ft.	LF
616.0205	Fence Chain Link 5-Ft.	LF
616.0206	Fence Chain Link 6-Ft.	LF
616.0207	Fence Chain Link 7-Ft.	LF
616.0208	Fence Chain Link 8-Ft.	LF
645.0110	Geotextile Fabric Type DF	SY
645.0130	Geotextile Fabric Type R	SY
645.0120	Geotextile Fabric Type HR	SY
645.0105	Geotextile Fabric Type C	SY
502.0300.S	QMP Concrete Structures 5-Cylinder	SF
SPV.0060	Bar Couplers, 1/2 Inch	Each
SPV.0060	Bar Couplers, 5/8 Inch	Each
SPV.0060	Bar Couplers, 3/4 Inch	Each
SPV.0060	Bar Couplers, 7/8 Inch	Each
SPV.0060	Bar Couplers, 1 Inch	Each
SPV.0060	Bar Couplers, 1 1/8 Inch	Each

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Specific Guidance for Traffic Control:

(See General Guidance)

Select:

- Temporary pavement markings measured linearly

Do not select:

- Each items
- Day items

**Pay Plan Quantity
Example Bid Item List**

Work Type: Traffic Control Bid Items

NOTE: Example Bid Item list provided for clarification of guidance only. Designers are not restricted to the bid items shown.

Item Number	Description	Unit
643.1000	Traffic Control Signs Fixed Message	SF
646.0103	Pavement Marking Paint 4-Inch	LF
646.0106	Pavement Marking Epoxy 4-Inch	LF
646.0109	Pavement Marking Preformed Plastic 4-Inch	LF
646.0113	Pavement Marking Paint 6-Inch	LF
646.0116	Pavement Marking Epoxy 6-Inch	LF
646.0119	Pavement Marking Preformed Plastic 6-Inch	LF
646.0223	Pavement Marking Channelizing Paint 8-Inch	LF
646.0226	Pavement Marking Channelizing Epoxy 8-Inch	LF
646.0229	Pavement Marking Channelizing Preformed Plastic 8-Inch	LF
646.0403	Pavement Marking Same Day Paint 4-Inch	LF
646.0406	Pavement Marking Same Day Epoxy 4-Inch	LF
646.0413	Pavement Marking Same Day Paint 6-Inch	LF
646.0416	Pavement Marking Same Day Epoxy 6-Inch	LF
646.0600	Removing Pavement Markings	LF
647.0453	Pavement Marking Curb Paint	LF
647.0456	Pavement Marking Curb Epoxy	LF
647.0503	Pavement Marking Curb Ramp Paint	LF
647.0506	Pavement Marking Curb Ramp Epoxy	LF
647.0509	Pavement Marking Curb Ramp Preformed Plastic	LF
647.0553	Pavement Marking Stop Line Paint 12-Inch	LF
647.0556	Pavement Marking Stop Line Epoxy 12-Inch	LF
647.0559	Pavement Marking Stop Line Preformed Plastic 12-Inch	LF
647.0563	Pavement Marking Stop Line Paint 18-Inch	LF
647.0566	Pavement Marking Stop Line Epoxy 18-Inch	LF
647.0569	Pavement Marking Stop Line Preformed Plastic 18-Inch	LF
647.0573	Pavement Marking Stop Line Paint 24-Inch	LF
647.0576	Pavement Marking Stop Line Epoxy 24-Inch	LF
647.0579	Pavement Marking Stop Line Preformed Plastic 24-Inch	LF
647.0653	Pavement Marking Parking Stall Paint	LF
647.0656	Pavement Marking Parking Stall Epoxy	LF
647.0659	Pavement Marking Parking Stall Preformed Plastic	LF
647.0706	Pavement Marking Diagonal Epoxy 6-Inch	LF
647.0713	Pavement Marking Diagonal Paint 8-Inch	LF
647.0716	Pavement Marking Diagonal Epoxy 8-Inch	LF
647.0719	Pavement Marking Diagonal Preformed Plastic 8-Inch	LF
647.0723	Pavement Marking Diagonal Paint 12-Inch	LF

**Pay Plan Quantity
Example Bid Item List**

Work Type: Traffic Control Bid Items

NOTE: Example Bid Item list provided for clarification of guidance only. Designers are not restricted to the bid items shown.

Item Number	Description	Unit
647.0726	Pavement Marking Diagonal Epoxy 12-Inch	LF
647.0729	Pavement Marking Diagonal Preformed Plastic 12-Inch	LF
647.0736	Pavement Marking Diagonal Epoxy 18-Inch	LF
647.0743	Pavement Marking Diagonal Paint 24-Inch	LF
647.0746	Pavement Marking Diagonal Epoxy 24-Inch	LF
647.0749	Pavement Marking Diagonal Preformed Plastic 24-Inch	LF
647.0763	Pavement Marking Crosswalk Paint 6-Inch	LF
647.0766	Pavement Marking Crosswalk Epoxy 6-Inch	LF
647.0769	Pavement Marking Crosswalk Preformed Plastic 6-Inch	LF
647.0773	Pavement Marking Crosswalk Paint 12-Inch	LF
647.0776	Pavement Marking Crosswalk Epoxy 12-Inch	LF
647.0779	Pavement Marking Crosswalk Preformed Plastic 12-Inch	LF
647.0783	Pavement Marking Crosswalk Paint 18-Inch	LF
647.0786	Pavement Marking Crosswalk Epoxy 18-Inch	LF
647.0789	Pavement Marking Crosswalk Preformed Plastic 18-Inch	LF
647.0803	Pavement Marking Aerial Enforcement Bars Epoxy 24-Inch	LF
647.0806	Pavement Marking Aerial Enforcement Bars Preformed Plastic 24-Inch	LF
647.0830.S	Pavement Marking Raised Pattered Tape 4-Inch	LF
647.0850.S	Pavement Marking High Performance Contrast Tape	LF
647.0853	Pavement Marking Concrete Corrugated Median Paint	SF
647.0856	Pavement Marking Concrete Corrugated Median Epoxy	SF
648.0100	Locating No-Passing Zones	MI
649.0100	Temporary Pavement Marking 4-Inch	LF
649.0200	Temporary Pavement Marking Reflective Paint 4-Inch	LF
649.0300	Temporary Pavement Marking Reflective Tape 4-Inch	LF
649.0400	Temporary Pavement Marking Removable Tape 4-Inch	LF
649.0700	Temporary Pavement Marking Channelizing 8-Inch	LF
649.0800	Temporary Pavement Marking Channelizing Removable Tape 8-Inch	LF
649.0900	Temporary Pavement Marking Stop Line 12-Inch	LF
649.1000	Temporary Pavement Marking Stop Line Removable Tape 12-Inch	LF
649.1100	Temporary Pavement Marking Stop Line 18-Inch	LF
649.1200	Temporary Pavement Marking Stop Line Removable Tape 18-Inch	LF
649.1300	Temporary Pavement Marking Stop Line 24-Inch	LF
649.1400	Temporary Pavement Marking Stop Line Removable Tape 24-Inch	LF
649.1500	Temporary Pavement Marking Diagonal 12-Inch	LF
649.1600	Temporary Pavement Marking Diagonal Removable Tape 12-Inch	LF

Pay Plan Quantity

Specific Guidance for Electrical:

(See General Guidance)

Select:

- Linear items – wiring, conduit, etc

Do not select:

- Lump sum traffic signals or lighting
- Each items

**Pay Plan Quantity
Example Bid Item List**

Work Type: Electrical Bid Items

NOTE: Example Bid Item list provided for clarification of guidance only. Designers are not restricted to the bid items shown.

Item Number	Description	Unit
652.0105	Conduit Rigid Metallic 3/4-Inch	LF
652.0110	Conduit Rigid Metallic 1-Inch	LF
652.0115	Conduit Rigid Metallic 1 1/4-Inch	LF
652.0120	Conduit Rigid Metallic 1 1/2-Inch	LF
652.0125	Conduit Rigid Metallic 2-Inch	LF
652.0130	Conduit Rigid Metallic 2 1/2-Inch	LF
652.0135	Conduit Rigid Metallic 3-Inch	LF
652.0140	Conduit Rigid Metallic 3 1/2-Inch	LF
652.0145	Conduit Rigid Metallic 4-Inch	LF
652.0205	Conduit Rigid Nonmetallic Schedule 40 3/4-Inch	LF
652.0210	Conduit Rigid Nonmetallic Schedule 40 1-Inch	LF
652.0215	Conduit Rigid Nonmetallic Schedule 40 1 1/4-Inch	LF
652.0220	Conduit Rigid Nonmetallic Schedule 40 1 1/2-Inch	LF
652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF
652.0230	Conduit Rigid Nonmetallic Schedule 40 2 1/2-Inch	LF
652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF
652.0240	Conduit Rigid Nonmetallic Schedule 40 4-Inch	LF
652.0305	Conduit Rigid Nonmetallic Schedule 80 3/4-Inch	LF
652.0310	Conduit Rigid Nonmetallic Schedule 80 1-Inch	LF
652.0315	Conduit Rigid Nonmetallic Schedule 80 1 1/4-Inch	LF
652.0320	Conduit Rigid Nonmetallic Schedule 80 1 1/2-Inch	LF
652.0325	Conduit Rigid Nonmetallic Schedule 80 2-Inch	LF
652.0330	Conduit Rigid Nonmetallic Schedule 80 2 1/2-Inch	LF
652.0335	Conduit Rigid Nonmetallic Schedule 80 3-Inch	LF
652.0340	Conduit Rigid Nonmetallic Schedule 80 4-Inch	LF
652.0405	Conduit Reinforced Thermosetting Resin 2-Inch	LF
652.0410	Conduit Reinforced Thermosetting Resin 3-Inch	LF
652.0415	Conduit Reinforced Thermosetting Resin 4-Inch	LF
652.0605	Conduit Special 2-Inch	LF
652.0610	Conduit Special 2 1/2-Inch	LF
652.0615	Conduit Special 3-Inch	LF
652.0620	Conduit Special 3 1/2-Inch	LF
652.0625	Conduit Special 4-Inch	LF
652.0690	Conduit Special (inch)	LF
652.0705	Drain Duct 2-Inch	LF
652.0800	Conduit Loop Detector	LF
652.0900	Loop Detector Slots	LF

**Pay Plan Quantity
Example Bid Item List**

Work Type: Electrical Bid Items

NOTE: Example Bid Item list provided for clarification of guidance only. Designers are not restricted to the bid items shown.

Item Number	Description	Unit
655.0102	Cable In Duct 2-2 AWG	LF
655.0104	Cable In Duct 2-4 AWG	LF
655.0106	Cable In Duct 2-6 AWG	LF
655.0108	Cable In Duct 2-8 AWG	LF
655.0110	Cable In Duct 2-10 AWG	LF
655.0122	Cable In Duct 3-2 AWG	LF
655.0124	Cable In Duct 3-4 AWG	LF
655.0126	Cable In Duct 3-6 AWG	LF
655.0128	Cable In Duct 3-8 AWG	LF
655.0130	Cable In Duct 3-10 AWG	LF
655.0144	Cable In Duct 4-4 AWG	LF
655.0146	Cable In Duct 4-6 AWG	LF
655.0148	Cable In Duct 4-8 AWG	LF
655.0150	Cable In Duct 4-10 AWG	LF
655.0205	Cable Traffic Signal 3-12 AWG	LF
655.0210	Cable Traffic Signal 3-14 AWG	LF
655.0215	Cable Traffic Signal 4-12 AWG	LF
655.0220	Cable Traffic Signal 4-14 AWG	LF
655.0223	Cable Traffic Signal 5-10 AWG	LF
655.0225	Cable Traffic Signal 5-12 AWG	LF
655.0230	Cable Traffic Signal 5-14 AWG	LF
655.0233	Cable Traffic Signal 7-10 AWG	LF
655.0235	Cable Traffic Signal 7-12 AWG	LF
655.0240	Cable Traffic Signal 7-14 AWG	LF
655.0243	Cable Traffic Signal 9-10 AWG	LF
655.0245	Cable Traffic Signal 9-12 AWG	LF
655.0250	Cable Traffic Signal 9-14 AWG	LF
655.0253	Cable Traffic Signal 12-10 AWG	LF
655.0255	Cable Traffic Signal 12-12 AWG	LF
655.0260	Cable Traffic Signal 12-14 AWG	LF
655.0263	Cable Traffic Signal 15-10 AWG	LF
655.0265	Cable Traffic Signal 15-12 AWG	LF
655.0270	Cable Traffic Signal 15-14 AWG	LF
655.0273	Cable Traffic Signal 19-10 AWG	LF
655.0275	Cable Traffic Signal 19-12 AWG	LF
655.0280	Cable Traffic Signal 19-14 AWG	LF
655.0285	Cable Traffic Signal 21-12 AWG	LF

**Pay Plan Quantity
Example Bid Item List**

Work Type: Electrical Bid Items

NOTE: Example Bid Item list provided for clarification of guidance only. Designers are not restricted to the bid items shown.

Item Number	Description	Unit
655.0290	Cable Traffic Signal 21-14 AWG	LF
655.0305	Cable Type UF 2-12 AWG Grounded	LF
655.0310	Cable Type UF 2-12 AWG	LF
655.0315	Cable Type UF 2-10 AWG	LF
655.0400	Communication Cable Plowed	LF
655.0405	Communication Cable Trenched	LF
655.0410	Communication Cable Installed in Conduit	LF
655.0505	Electrical Wire Traffic Signals 14 AWG	LF
655.0510	Electrical Wire Traffic Signals 12 AWG	LF
655.0515	Electrical Wire Traffic Signals 10 AWG	LF
655.0520	Electrical Wire Traffic Signals 8 AWG	LF
655.0525	Electrical Wire Traffic Signals 6 AWG	LF
655.0530	Electrical Wire Traffic Signals 4 AWG	LF
655.0535	Electrical Wire Traffic Signals 2 AWG	LF
655.0610	Electrical Wire Lighting 12 AWG	LF
655.0615	Electrical Wire Lighting 10 AWG	LF
655.0620	Electrical Wire Lighting 8 AWG	LF
655.0625	Electrical Wire Lighting 6 AWG	LF
655.0630	Electrical Wire Lighting 4 AWG	LF
655.0635	Electrical Wire Lighting 2 AWG	LF
655.0640	Electrical Wire Lighting 1 AWG	LF
655.0645	Electrical Wire Lighting 1/0 AWG	LF
655.0700	Loop Detector Lead In Cable	LF
655.0800	Loop Detector Wire	LF
671.0100	Conduit HDPE 4 Duct 1 1/4 Inch	LF
671.0200	Conduit HDPE Directional Bore 4-Duct 1 1/4-Inch	LF
674.0106	Cable ITS Communication 6 Pair	LF
674.0112	Cable ITS Communication 12 Pair	LF
674.0125	Cable ITS Communication 25 Pair	LF
674.0200	Cable Microwave Detector	LF
674.0300	Remove Cable	LF
674.0400	Reinstall Cable	LF
678.0006	Install Fiber Optic Cable Outdoor Plant 6-CT	LF
678.0024	Install Fiber Optic Cable Outdoor Plant 24-CT	LF
678.0036	Install Fiber Optic Cable Outdoor Plant 36-CT	LF
678.0048	Install Fiber Optic Cable Outdoor Plant 48-CT	LF
678.0072	Install Fiber Optic Cable Outdoor Plant 72-CT	LF

**Pay Plan Quantity
Example Bid Item List**

Work Type: Electrical Bid Items

NOTE: Example Bid Item list provided for clarification of guidance only. Designers are not restricted to the bid items shown.

Item Number	Description	Unit
678.0096	Install Fiber Optic Cable Outdoor Plant 96-CT	LF
678.0144	Install Fiber Optic Cable Outdoor Plant 144-CT	LF

Pay Plan Quantity

Example Bid Items for Various Work Types

- Lists of example Bid Items are provided for clarification of guidance only
- Designers aren't restricted to the Bid Items on the example lists
- Plan Examiners will not compare Bid Items selected by designers to the example lists

Pay Plan Quantity

Instructions for adding **P**** to
Schedule of Items for both:**

- Estimator
- Transport

Pay Plan Quantity

Estimator Instructions

Estimate 1060-05-71

Item 460.3000, QMP HMA MIXTURE	Line Number: 0260	
Item 465.0105, ASPHALTIC SURFACE	Item Number: 601.0205	AltCode:
Item 465.0110, ASPHALTIC SURFACE PATCHIN	Quantity: 1,140.000	Unit: LF
Item 465.0310, ASPHALTIC CURB	Unit Price: 16.00000	
Item 520.8000.5, CULVERT PIPE CONCRETE CC	Price Source: Estimate Reference Price	
Item 522.1012, APRON ENDWALLS FOR CULVEI	Extension: 18,240.00	
Item 601.0205, CONCRETE GUTTER 24-INCH	Description: CONCRETE GUTTER 24-INCH	
Item 601.0554, CONCRETE CURB & GUTTER 4-	Supplemental Description: **P**	
Item 603.0105, CONCRETE BARRIER SINGLE-F.		
Item 603.0110, CONCRETE BARRIER SINGLE-F.		
Item 603.0115, CONCRETE BARRIER SINGLE-F.		
Item 603.0405, CONCRETE BARRIER TRANSITI		
Item 603.0410, CONCRETE BARRIER TRANSITI		
Item 603.0415, CONCRETE BARRIER TRANSITI		
Item 604.0400, SLOPE PAVING CONCRETE		
Item 604.0500, SLOPE PAVING CRUSHED AGGR		
Item 608.0312, STORM SEWER PIPE REINFORC		
Item 608.0315, STORM SEWER PIPE REINFORC		
Item 608.0318, STORM SEWER PIPE REINFORC		
Item 608.0324, STORM SEWER PIPE REINFORC		

Type

In Estimator, enter the Pay Plan Quantity designation of ****P**** in the Supplemental Description field for the item

Pay Plan Quantity

Estimator Instructions

Estimate 1060-05-71

Item	Description	Line Number	Item Number	AltCode	Quantity	Unit	Unit Price	Price Source	Extension	Description	Supplemental Description
Item 204.0185	REMOVING MASONRY	0060	204.0245		7,172.000	LF	11.25000	Estimate Reference Price	80,685.00	REMOVING STORM SEWER (SIZE)	0001. 12-INCH **P**

Type

In Estimator, if the item has a Supplemental Description, enter the Pay Plan Quantity designation of ****P**** after the Supplemental Description for the item

Pay Plan Quantity

Trns•port Instructions

Item 0260 Project 1060-05-71 Category 1000

Page 1

Project Item Seq No.: 0260

Item Number: 601.0205 CONCRETE GUTTER 24-INCH
LF

Estimated Quantity: 1140.000

Estimated Price: 16.00000 Supp. Desc. Required:

Suppl. Description: ****P****

Item Alternate Code: Combine with Like Items:

Specification Year: 03 Non-Participating Fund Code:

Revised Price: Non-Bid Item:

Source of Price: E Pre-Established Price:

Estimated Price Lock:

Suppl. Proposal Descr.:

In Trns•port PES, enter the Pay Plan Quantity designation of **P**** in the Supplemental Description field for the item**

Change Close

Pay Plan Quantity

Trns•port Instructions

Item 0060 Project 1060-05-71 Category 1000

Page 1

Project Item Seq No.: 0060

Item Number: 204.0245 REMOVING STORM SEWER (SIZE)

Estimated Quantity: 7172.000 LF

Estimated Price: 11.25888 Supp. Desc. Required:

Suppl. Description: 0001. 12-INCH
P

Item Alternate Code: Combine with Like Items:

Specification Year: 03 Non-Participating Fund Code:

Revised Price:

Source of Price: E

Estimated Price Lock:

Suppl. Proposal Descr.:

In Trns•port PES, if the item has a Supplemental Description, enter the Pay Plan Quantity designation of ****P**** on the second line of the Supplemental Description field for the item

Pay Plan Quantity

Trns-port PES

File Edit View Utilities Window Help

PrimProj Projects Proposals BidLets Vendors Close Parent

Viewing File output1.txt for Process PESGPPSA

Wisconsin Department of Transportation PAGE: 5
DATE: 08/27/04
REVISD:

SCHEDULE OF ITEMS

CONTRACT: 20040727001 PROJECT(S): 1060-05-71 FEDERAL ID(S): NH 2004611
1730-08-60 NA

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS CTS	BID AMOUNT DOLLARS CTS
0205	204.0185 REMOVING MASONRY **p**	252.000 CY	.	.
0210	204.0195 REMOVING CONCRETE BASES	6.000 EACH	.	.
0215	204.0210 REMOVING MANHOLES **p**	59.000 EACH	.	.
0220	204.0220 REMOVING INLETS **p**	131.000 EACH	.	.
0225	204.0245 REMOVING STORM SEWER (SIZE) 0001. **p**	7,172.000 LF	.	.

Done Print... Save As Text Save As Rich Text

Ready

Sample
Schedule of Items
in PES
Showing ****P****

Pay Plan Quantity

Implementation

- District's discretion as to when it can be worked into PSE's
- Everything is available for immediate implementation
- District's encouraged to implement as soon as they can

Pay Plan Quantity

Implementation

- Districts should stop using the previous Bridge special provision that includes a list of pay plan quantity items and start using ****P**** mechanism
- Will look to expand Pay Plan Quantity to more items and possibly revise thresholds in the future