

**VILLAGE OF HUNTLEY
APPROVED MATERIAL LIST
STANDARD DETAIL
REVISION DATE: AUGUST 25, 2011**



All material substitutions must be approved by the Village of Huntley prior to installation, documentation of approved substitution must be provided to the Village of Huntley. All water materials are domestic Mueller unless otherwise noted.

Materials, products or standards listed in the AML will supersede any references made in the Subdivision Ordinance.

Final acceptance requests will be allowed between April 1st and August 1st of the same year.

Request for final acceptance will not be presented to the Village of Huntley Village Board after October 15th in the same year as the request. Subdivision Ord. 155.69 (c)

The developer will be responsible to inspect public improvements prior to requesting final acceptance.

Conflicts in material or specifications will be reviewed by either the Public Works Director or Village Engineer. Final judgment will be made by the Village.

Water System

All T-Head Nuts and Bolts shall be Teflon
Coated 304 Stainless Steel

<u>Component</u>	<u>Specification</u>	<u>Manufacturer</u>	<u>Catalog Tag</u>
Fire Hydrants	AWWA C-502	Mueller	Centurian A-423 Stainless Steel Bolts
Valve Box		Tyler	664 S
Valve Box Stabilizer		Adaptor II	
Valve Vault (precast)	ASTM C478		
External Chimney Seal		Adaptor Inc.	
Valves 6" - 10"	AWWA C509	Mueller	A2360
Valves 12" >	AWWA C504 Class 150-B	Mueller	B-3211
Ductile Iron Pipe Class 52	ANSI A21.51 Special CI 52		
Plastic water pipe class 52	ANSI A21.51 Special CI 52		
DIP Joints	ANSI A21.11		
Internal Lining	ANSI A21.4 or AWWA C205		
External Coating DIP Fittings	ANSI A21.10 or A21.53		
Polyethylene Encasement	AWWA C/105/A21.5		8 mil
Tapping Valves	AWWA C500	Mueller	A2360-20
Tapping Sleeves		Smith Blair Mueller	665 H304
Polyvinyl Chloride Pipe	AWWA C-900		
PVC 14" - 18"	Class 150 SDR 18 235 psi SDR 18		
PVC 20" - 24"	165 psi SDR 25		

Copper Water Service type K Soft Copper	ANSI H23.1		
High Density Polyethylene Service Pipe	ASTM D2737 ASTM D2239	Endopoly	
PVC Main service saddles		Blair Epoxy Coated	#317 Dbl Strap
Corporation Compression Corporation Flared		Mueller	B-25008 (.75 to 2 inch)
		Mueller	B-25000 (.75 to 2 inch)
Curb Stop Compression Curb Stop Flared		Mueller	B-25155 (.75 to 2 inch)
		Mueller	B-25154 (.75 to 2 inch)
B-Box Extension 36"		Mueller	580563 (1.5" services)
B-Box Extension 36"		Mueller	84275 (1" services)
10GA Solid copper Tracing wire			
Sampling Station		Kupferle Foundry	Eclipse NO. 88
Casing Spacers		Cascade Mfg.	CCS-JR CCS
Casing End Caps		Cascade Mfg.	CCES Stainless Steel Bands
Joint Restraints C900		Certainteed	Certa - Lock
Field Lock Gasket		MJ Field Lok	Series PV
Field Lock Gasket		MJ Field Lok	Series DI

Sanitary System

<u>Pipe</u>	<u>Pipe Material</u>	<u>Joint</u>	<u>Catalog Tag</u>
Ductile Iron Pipe	ANSI-21.51 CL25	ANSI A-21.11	
PVC SDR 26	ASTM D3034	ASTM D-3212	

Reinforce Concrete Pipe	ASTM C-76	ASTM C-443
Pre-stressed Concrete Pressure Pipe	AWWA C301	AWWA C-301
PVC Pressure Pipe	ASTM D-2241 (SDR 26)	Rubber ring bell and spigot exposed pipe solvent weld threaded or flanged

Storm System

<u>Material</u>	<u>Specification</u>	<u>Manufacturer</u>	<u>Catalog Tag</u>
Corrugated Metal Pipe	AASTO M36	Galvanized steel Aluminum steel	
Reinforced Concrete Pipe	ASTM C76	Class III	
O-ring joints	ASTM C443		
Concrete Sewer Pipe	ASTM C14 inlet connections		
Open-Yard Inlet		Neenah East Jordan	R4340-B 6527
Curb w/Box		Neenah East Jordan	R3281-A * 7210
Sanitary Manhole	Self Sealing	Neenah East Jordan	R-1713 1500
Storm Manhole		Neenah East Jordan	R-1772 1022
Inlet basket		Flexstorm	

* For flat curb plate see Neenah R-3246-1, or E.J. M3 Grate

Street Lighting

<u>Material</u>	<u>Specification</u>	<u>Manufacturer</u>	<u>Catalog Tag</u>
Residential Cast Aluminum Pole	See Wadsworth Series 17" DIA Base/14' Height	Holophane	W14F4/17-CA/BK 4" DIA fluted shaft
Residential Luminaire	Syracuse 150W HPS	Holophane	GVU15AHPMTB6SSBT
Foundation Steel Galvanized	Helical Screw 6" DIA/12" Helix	Dixie Anchoring or Approved Equal	
Foundation Concrete	See Standard Detail		
20FT MH Aluminum Pole		KIM	PRA20-4188-BL-P PRA20-41888-DB-P/A30
30 FT MH Aluminum Pole	60063-T6 0.188" Wall	KIM	LTRA30-7156-BL-P
30 FT MH Aluminum Pole Round tapered		Lithonia	RTAU30-7E-BMA-S2- L/AB FBC VD (VIB DAMP) - DBL
Luminaire	250WHPS w/Photo cell	Lithonia	AS2 -250S-SR2-240- ASKMA2-PER-PE1-LPI- DBL
Luminaire	100w HPS Archetype	KIM	1A/SAR3/100HPS120/BL- P/A-30 1A/SAR3/100HPS120/DB- P/A-30
Foundation Steel Galvanized	Helical Screw 8" DIA/14" Helix	Dixie Anchoring	
Foundation Steel Galvanized	Helical Screw 8" DIA/14" Helix	Component Products	SLSF 8-6

Signs

<u>Material</u>	<u>Specification</u>	<u>Manufacturer</u>	<u>Catalog Tag</u>
Sign Post 10' pole 3' base		Telespar	1.75" 14 GA 2" 12 GA
Post Bracket Street Name	E-Series	Lyle	E450
Post Bracket Streetlight Street Name Bracket	E-Series	Lyle	Black OLP Cantilever / Decorative
Street Name Primary	9" blade 6" letters High intensity prismatic		White letters on green background
Street Name Secondary	6" blade 4" letters High intensity prismatic		White letters on green background
Street Name Post 12' Min	Galvanized Steel 2 and 3/8 inch OD		

MISC

<u>Material</u>	<u>Specification</u>	<u>Manufacturer</u>	<u>Catalog Tag</u>
ADA Detectable Warning Systems	ADA ADAAG	Meta Panel	
Reflective Pavement Markers Recessed	R-100	Marker One	

FIGURE 1: MINIMUM PAVEMENT REQUIREMENTS

Street Classification	Minimum Pavement Requirements ¹
Major Arterial	6" Aggregate Base Course, Type B 8" P.C. Concrete - or - 6" Aggregate Base Course, Type B 8" Hot-Mix Asphalt Base Course 2.5" Hot-Mix Asphalt. Binder Course, IL-19.0, N70 2" Hot-Mix Asphalt Surface Course, Mix D, N70
Secondary Arterial	6" Aggregate Base Course, Type B 8" P.C. Concrete - or - 6" Aggregate Base Course, Type B 7" Hot-Mix Asphalt Course 2.5" Hot-Mix Asphalt Binder Course, IL-19.0, N70 2" Hot-Mix Asphalt Surface Course Mix "D", N70
Collector - Industrial/Commercial Local - Industrial/Commercial	6" Aggregate Base Course, Type B 8" P.C. Concrete - or - 6" Aggregate Base Course, Type B 8" Hot-Mix Asphalt Base Course 2.5" Hot-Mix Asphalt. Binder Course, IL-19.0, N50 1½" Hot-Mix Asphalt Surface Course, Mix "D", N50
Collector - Residential	4" Aggregate Base Course, Type B 6" Hot-Mix Asphalt Base Course 2.5" Hot-Mix Asphalt Binder Course, IL-19.0, N50 1.5" Hot-Mix Asphalt Surface Course, Mix "C", N50

Local - Residential	10" Aggregate Base Course, Type B 2.5" Hot-Mix Asphalt. Binder Course, IL-19.0, N50 1½ Hot-Mix Asphalt. Surface Course, Mix "C", N50
Parking Lot Standard Duty Pavement	10" Aggregate Base Course, Type B 2.5" Hot-Mix Asphalt. Binder Course, IL-19.0, N50 1½ Hot-Mix Asphalt. Surface Course, Mix "C", N50 OR: 6" Aggregate Base Course, Type B 6" P.C. Concrete
Parking Lot Heavy Duty Pavement	6" Aggregate Base Course, Type B 4" Hot-Mix Asphalt Base Course 2.5" Hot-Mix Asphalt Binder Course 1.5" Hot Mix Asphalt Surface Course Mix "C" N50 OR: 6" Aggregate Base Course, Type B 8" P.C. Concrete

FIGURE 2: STREET GEOMETRIC CRITERIA

Roadway Classification	Major	Secondary	Commercial	Industrial	Major Residential a.k.a. Collector	Residential
Right-of-way width	100 ft.	80 ft.	80 ft.	66 ft.	66 ft.	66 ft.
Roadway width ¹	53 ft.	45 ft.	45 ft.	39 ft.	33 ft.	31 ft.
Sidewalk width ^{6, 7}	6 ft.	6 ft.	6 ft.	N/A	5 ft.	5 ft.
Curb type ²	B-6.24	B-6.12	B-6.12	B-6.12	B-6.12	B-6.12
Number of traffic lanes ⁸	4	4	4	2	2 to 3	2
Lane width	12 ft.	12 ft.	12 ft.	12 ft.	15 ft.	10 ft.
Parking	N/A	Both sides	Both sides	N/A	N/A	One side
Minimum cul-de-sac pavement radius ³	N/A	N/A	55 ft.	55 ft.	N/A	50 ft.
Maximum cul-de-sac length ⁴	N/A	N/A	1,000 ft.	1,000 ft.	N/A	750 ft.
Minimum sight distance	300 ft.	250 ft.	200 ft.	200 ft.	200 ft.	100 ft.
Maximum grade	6%	6%	6%	6%	6%	8%
Minimum gutter grade	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%
Design speed	40 mph	35 mph	30 mph	30 mph	30 mph	30 mph
Minimum center line radius ⁵	500 ft.	300 ft.	250 ft.	250 ft.	250 ft.	175 ft.
Return radius	30 ft.	30 ft.	30 ft.	40 ft.	30 ft.	30 ft.
Crown	6.5 in.	5.5 in.	6 in.	5 in.	4.5 in.	4.5 in.

¹ Dimensions are measured back to curb

² Minimum gutter flag depth shall be 8 inches

³ Cul-de-sac ROW radius shall be 75 ft. for commercial and industrial streets and 60 ft. for all others

⁴ The combined length of the street and diameter of the cul-de-sacs

⁵ A tangent of at least 100 ft. shall be introduced between reverse curves on major and secondary streets

⁶ Sidewalk shall be placed in public right-of-way, one foot from the property line unless otherwise approved by the Director of Public Works

⁷ Sidewalk designated as bike path shall be a minimum of 8 feet

⁸ Four lanes required for traffic volumes over 15,000 ADT