



VILLAGE OF ALGONQUIN
PUBLIC WORKS DEPARTMENT

– M E M O R A N D U M –

TO: Engineers, Developers, Contractors

FROM: Village of Algonquin Public Works Department

SUBJECT: **Storm Sewer Infrastructure Product List**

This memo is to provide you with the current Village of Algonquin approved products for use. The document will call out the generic standards for each item as well as the approved products selected by staff. In general, the Village standards follow IDOT Standards for Road and Bridge Construction and the Illinois Standards for Water and Sewer Construction, most current edition. If you would like to use an alternate to any of the items listed you must submit a formal request, in writing, to the Village.

- A. Structures shall be concrete (Manholes, Catch Basins, Inlets)
1. Base, Riser & Chimney
 - a) Base & Risers
 1. Reinforced Precast concrete (ASTM C478)
 2. Minimum 6” wall thickness
 3. Integral bench (Manholes)
 - b) Internal Barrel Section Joint
 1. Gasket-Rubber O-Ring (ASTM C443)
 2. Butyl Rubber Strip (ASTM C990)
 - a) Butyl strip by NPC
 - b) Kent Seal by Hamilton Kent
 - c) External Barrel Section Joint
 1. 8” (min.) wide polyethylene wrap
 - a) MacWrap or Mar Mac
 - b) WrapidSeal by Canusa-CPS
 - c) Riser Wrap by PSI
 - d) Pipe Penetrations
 1. Cast into structure
 2. Cored by hole saw
 - e) Patches
 1. Concrete brick & mortar (interior & exterior)
 - f) Chimney / Top Riser Section
 1. Eccentric Cone (4’ Dia. Structures and larger)
 2. Flat-top (Must include 2” cast ring)
 3. 2-foot structures may have frame set directly
 2. Frames & Grates – Cast Iron
 - a) B6:12 curb installation
 1. Frame:
 - a. 7010 by East Jordan

2. Back: 7010-T1 by East Jordan
 3. Grate: 7010-M3 sinusoidal (If slope is greater than 3% use M4 vane) by East Jordan
- b) Depressed B6:12 installation
 - i. Frame: 7065 by East Jordan
 - ii. Back: 7060 – T1 by East Jordan
 - iii. Grate: 7045 – M1 by East Jordan
 - c) B6.24 curb installation
 - d) B4.12 curb installation
 - e) Pavement or Yard Installation (Solid Lid)
 - i. Frame:
 - a) 1050-Z1 by East Jordan
 - b) Lid: 1050-Z1 Flat Heavy Duty (w/Village of Algonquin Logo) by East Jordan
 - f) Pavement Installation (Open Lid, to be used only in parking lots)
 - i. Frame:
 - a) 1050-Z1 by East Jordan
 - ii. Lid: East Jordan 1050-Z1 M1 Flat Heavy Duty
 - g) Yard Installation (Open Lid, low flow)
 - i. Frame: East Jordan 6527
 - h) Yard Installation (Open Lid, High flow)
 - i. Frame: East Jordan 6508
1. Adjustment Rings (2 total for max 8” of adjustment)
 - a) Concrete (lower-level rings)
 1. Reinforced Precast concrete (ASTM C478)
 - b) Rubber ring (required for top ring)
 1. Infra-Riser by GNR Technologies
 2. Chimney Seals
 - a) 8” (min.) wide polyethylene wrap
 1. WrapidSeal by Canusa-CPS 2. Adaptor Seal by Adaptor Inc.
- B. Pipe (Circular, Elliptical, Box Culvert, Drain Tile, Misc.)
1. Circular
 - a) Reinforced Concrete (12” – 144”) (ASTM C 76)
 1. Minimum Class Requirements
 - a. Pipes buried greater than 20 feet must go through special material review
 - b. Class V – Can be used at depths 1 to 20 foot at any diameter
 - c. Class IV – Can be used at depths 1 to 15 foot at any diameter
 - d. Class III – Can be used at depths 5 to 10 foot at any diameter
 - e. Class II – Can be used at depths 5 to 10 foot and only in diameters 60” and larger
 - f. Class I – Cannot be used in any application
 2. Gasket
 - a. Rubber Gasket (ASTM 443)
 - i. O Ring by Press-Seal Gasket Corp.
 - ii. PVC (ASTM D3034) (12” – 24” up to 20’ in depth)
 1. SDR 26 Gasketed by Freedom Plastics
 2. Gravity Sewer Pipe by North American Pipe
 - iii. Ductile Iron (Thickness Class 52) (AWWA C151) (4” – 10” up to 20’ in depth)
 1. Tyton Joint w/gasket by US Pipe (uspipe.com)
 2. Tyton Joint w/gasket by American Ductile Iron Pipe
 3. Tyton Joint w/gasket by Griffin
 - iv. HDPE smooth flow, dual wall (ASTM F 667) (12” – 36” up to 20’ in depth) **ROW Restricted**
 1. N-12 WT Pipe Gasketed by ADS
 2. Sure-Lok ST by Hancor
 3. GoldFlo WT by Prinsco

- b. Elliptical & Box Culvert
 - i. Reinforced Concrete (12" – 144") (ASTM C 76)
 - 1. Minimum Class Requirements
 - a. Pipes buried greater than 20 feet must go through special material review
 - b. Class V – Can be used at depths 1 to 20 foot at any diameter
 - c. Class IV – Can be used at depths 1 to 15 foot at any diameter
 - d. Class III – Can be used at depths 5 to 10 foot at any diameter
 - e. Class II – Can be used at depths 5 to 10 foot and only in diameters 60" and larger
 - f. Class I – Cannot be used in any application
- c. Drain Tile, Sump Connection, Under-drain
 - i. PVC (ASTM D3034) (4" – 10" up to 10' in depth)
 - 1. SDR 26 Gasketed by Freedom Plastics
 - 2. Gasketed Gravity Sewer Pipe by North American Pipe
 - ii. PVC (ASTM D1785 Schedule 40) (1/2" – 4" up to 10' in depth)
 - 1. Schedule 40 PVC by Freedom Plastics
 - 2. Schedule 40 DMV Dual Rated by North American Pipe
 - iii. HDPE smooth flow (ASTM F 405) (3" – 6" up to 10' in depth)
 - 1. N-12 ST 1B Pipe (ASTM F477) by ADS
 - 2. Heavy Duty by Hancor
 - 3. GoldLine by Prinsco
- d. Flared End Sections
 - i. Reinforced Concrete (12" – 144") (ASTM C76) Class IV
 - 1. Grating shall meet IDOT Standard Drawing 542311

C. Other Storm Related Products

- 1. Pipe Connections
 - a) Large Diameter (8" to 144") Pipe connections
 - 1. Must enter no exceptions
 - a. Small Diameter (1/2" – 6") connections
 - i. When possible always core into existing structure
 - 2. Install clean out at the uphill side of all the connections of same diameter pipe
 - 3. When connecting small diameter to larger diameter
 - a. Inserta Tee by Inserta Tee
 - b. CB Sewer Saddle by Romac
 - c. Drain Tile Fabrics
 - i. Nonwoven Geotextile (150 gpm/ft sq ASTM D 4491)
 - 1. US 90 NW by US Fabrics
 - 2. 140 NL by Mirafi
 - 3. FX-35 HS by Carthage Mills



VILLAGE OF ALGONQUIN
PUBLIC WORKS DEPARTMENT

– M E M O R A N D U M –

TO: Engineers, Developers, Contractors

FROM: Village of Algonquin Public Works Department

SUBJECT: **Sanitary Sewer Infrastructure Product List**

This memo is to provide you with the current Village of Algonquin approved products for use. The document will call out the generic standards for each item as well as the approved products selected by staff. In general, the Village standards follow IDOT standards for Road and Bridge Construction and the Illinois Standards for Water and Sewer Construction, most current editions. If you would like to use an alternate to any of the items listed you must submit a formal request, in writing, to the Village.

- A. Structures Concrete (Manholes)
 - 1. (Base, Riser & Chimney)
 - i. Base & Risers
 - ii. Reinforced Precast concrete (ASTM C478)
 - iii. Minimum 6” wall thickness
 - iv. Integral bench
 - v. Waterproof bituminous coat shall be applied to exterior of structure
 - 2. Internal Barrel Section Joint
 - i. Gasket-Rubber O-Ring (ASTM C443)
 - ii. Butyl Rubber Strip (ASTM C990)
 - a. Butyl strip by NPC
 - b. Kent Seal by Hamilton Kent
 - 3. External Barrel Section Joint
 - i. 8” (min.) wide polyethylene wrap
 - a. MacWrap by Mar Mac
 - b. WrapidSeal by Canusa-CPS
 - c. Riser Wrap by PSI
 - 4. Pipe Penetrations
 - i. Cast into structure
 - a. Integral boot per ASTM C-923
 - a. PSX by Dress Seal
 - ii. Cored by hole saw
 - a. Mechanically installed boot per ASTM C-923
 - a. Kor-N-SealI/II by NPC
 - 5. Patches
 - i. Concrete brick & mortar (interior & exterior)
 - ii. Waterproof bituminous coat shall be applied to exterior of structure

6. Chimney / Top Riser Section
 - i. Eccentric Cone (4' Dia. Structures and larger)
 - ii. Flat-top (Must include 4" cast ring)
2. Iron
 1. Frames & Lids
 - i. Cast Iron
 - a. Pavement or Yard Installation (Solid Lid)
 - a. Frame:
 1. 1050-Z1 by East Jordan
 2. Pamrex CDPA70EH by Certaineed (includes lid)
 - b. Lid: 1050-Z1 Flat Heavy Duty (w/Village of Algonquin logo) by East Jordan
 - b. Flood Plain Installation
 - a. Frame
 1. V-2356-1 by East Jordan
 - b. Lid
 1. Pamrex CDPA 70EHSSSE by Certaineed (includes lid)
 3. Adjustment Rings (2 total for max 8" of adjustment)
 1. Concrete (lower-level rings)
 - i. Reinforced Precast concrete (ASTM C478)
 2. Rubber ring (required for top ring when in pavement)
 - i. Infra-Riser by GNR Technologies
 4. Chimney Seals
 1. 8" (min.) wide polyethylene wrap
 - i. WrapidSeal by Canusa-CPS
 - ii. Adaptor Seal by Adaptor Inc.
- B. Pipe
 1. Gravity Sewer Installations (<15)
 1. PVC SDR 26 (4" – 15" per ASTM D3034, 18" to 24" per ASTM F-679)
 - i. North American Pipe Corporation
 - ii. Freedom Plastics – Hug-Tite
 - a. Gaskets – Rubber Ring per ASTM D3212 or ASTM F477
 - b. Tracer Wire – 30 mil Poly Coated Solid Core #10 AWG
 2. Ductile Iron Class 52 per ASTM A746
 - i. US Pipe – Protecto 401 lining
 - ii. American Fastite – Protecto 401 lining
 - a. Gaskets – Neoprene Ring per AWWA C111
 3. Fusion Welded HDPE
 - i. ISCO Industries PE3408 DR 26
 - ii. KWH Pipe – Sclairpipe DR 26
 - a. Tracer Wire – 30 mil Poly Coated Solid Core #10 AWG
 2. Gravity Sewer Installation (>or= to 15 feet)
 - i. US Pipe – Protecto 401 lining
 - ii. American Fastite – Protecto 401 lining
 - b. Gaskets – Neoprene Ring per AWWA C111
 4. High Pressure Forcemain Installation
 - i. Ductile Iron Class 52 per ASTM A746
 - ii. US Pipe – Protecto 401 lining
 - iii. American Fastite – Protecto 401 lining
 - a. Gaskets – Neoprene Ring per AWWA C111
 5. Low Pressure Forcemain Installation
 - i. Ductile Iron Class 52 per ASTM A746
 - ii. US Pipe – Protecto 401 lining
 - iii. American Fastite – Protecto 401 lining
 - a. Gaskets – Neoprene Ring per AWWA C111
 6. Fusion Welded HDPE
 - i. ISCO Industries – PE3408 DR 26

- ii. KWH Pipe – Sclairpipe DR 26
 - a. Tracer Wire – 30 mil Poly Coated Solid Core #10 AWG
- C. Other Sanitary Sewer Related Products
 - 1. Repair Sleeves per ASTM C1173-06
 - 1. Connection of Different Materials
 - i. Mission – Flex Seal
 - ii. Fernco – 1000 Series
 - 2. Connection of Same Material
 - i. Fernco – 5000 Strong Back RC Couplings
 - 2. Saddle Tee / Wye 6”
 - 1. NDS – Flexible Saddle Wye 6Y / C
 - 2. Inserta Tee – PVS Hub
 - 3. Romac – CB Saddle
 - 3. Casing / Carrier Pipe Installation
 - 1. Carrier Pipe
 - ¼” continuously welded Smooth Interior Steel Pipe of at least two inches (2”) in diameter larger than bell diameter
 - *All pipe in carrier pipe must have locking gaskets, and no structures shall be located closer than 20 feet of the end of the carrier pipe.
 - 2. Casing Spacers
 - i. 2 Piece shell of stainless steel construction with poly sliders
 - a. Cascade – CCS
 - b. PSI – Model S
 - 3. End Seals
 - i. 1 Piece EPDM 60 band tightened seal
 - a. PSI – Model C
 - ii. Model R PulloOn End Seal/Night Cap
 - iii. Pull on end seal Spider Manufacturing
 - 4. Air Release for Forcemain System
 - 1. Val-Matic – Air Release



VILLAGE OF ALGONQUIN
PUBLIC WORKS DEPARTMENT

– M E M O R A N D U M –

TO: Engineers, Developers, Contractors

FROM: Village of Algonquin Public Works Department

SUBJECT: **Water Infrastructure Product List**

This memo is to provide you with the current Village of Algonquin approved products for use. The document will call out the generic standards for each item as well as the approved products selected by staff. In general, the Village standards follow IDOT standards for Road and Bridge Construction and the Illinois Standards for Water and Sewer Construction, most current editions. If you would like to use an alternate to any of the items listed you must submit a formal request, in writing, to the Village.

- A. Structures (Concrete Valve Vaults Base Riser and Chimney)
 - 1. Base & Risers
 - a. Reinforced Precast concrete (ASTM C478)
 - b. Minimum 6” wall thickness
 - c. Integral bench (Manholes)
 - d. Waterproof bituminous coat (10 mil) shall be applied to exterior of structure
 - 2. Internal Barrel Section Joint
 - a. Gasket-Rubber O-Ring (ASTM C443)
 - b. Butyl Rubber Strip (ASTM C990)
 - i. Butyl strip by NPC
 - ii. Kent Seal by Hamilton Kent
 - 3. External Barrel Section Joint
 - a. 8” (min.) wide polyethylene wrap
 - i. Mac Wrap by Mar Mac
 - ii. WrapidSeal by Canusa-CPS
 - iii. Riser Wrap by PSI
 - 4. Pipe Penetrations
 - a. Cast into structure
 - i. Integral boot per ASTM C-923
 - 1. PSX by Dress Seal
 - b. Cored by hole saw
 - i. Mechanically installed boot per ASTM C-923
 - 1. Kor-N-Seal I / II by NPC
 - 5. Patches
 - a. Concrete brick & mortar (interior & exterior)
 - b. Waterproof bituminous coat shall be applied to exterior of structure
 - 6. Chimney / Top Riser Section

- a. Concentric Cone for in line valves up to & including 12” (center opening over operator)
 - b. Eccentric Cone for in line valves 14” and larger (center opening over operator)
 - c. Eccentric Cone for pressure connections (center opening over operator)
 - d. Flat-top (Must include 4” cast ring) (center opening over operator)
- 7. Frames & Lids Cast Iron
 - a. Pavement or Yard Installation (Solid Lid)
 - i. Frame:
 - 1. 1050-Z1 by East Jordan
 - 2. Pamrex CDPA70EH by Certainteed (includes lid)
 - ii. Lid: 1050-Z1 Flat Heavy Duty (w/ Village of Algonquin logo) by East Jordan
 - b. Flood Plain Installation
 - i. Frame
 - 1. V-2356-1 by East Jordan
 - ii. Lid
 - 1. Pamrex CDPA70EHSSSE by Certainteed (includes lid)
- 8. Adjustment Rings (2 total for max 8” of adjustment)
 - a. Concrete (lower level rings)
 - i. Reinforced Precast concrete (ASTM C478)
 - b. Rubber ring (required for top ring when in pavement)
 - i. Infra-Riser by GNR Technologies
- 9. Chimney Seals
 - a. 8” (min.) wide polyethylene wrap
 - i. WrapidSeal by Canusa-CPS
 - ii. Adaptor Seal by Adaptor Inc.
- B. Connection to System
 - a. Pressure Connection
 - i. Tapping Sleeve
 - 1. East Jordan – MJ Tapping Sleeve – Full body cast iron
 - 2. Mueller – H 615 – Full body cast iron
 - 3. American Flow Control – Series 2800 – Full body ductile iron
 - ii. Tapping Valve (Cast or Ductile Iron) (6” to 12”)
 - 1. Mueller – T-2360-16
 - 2. US Pipe – A-USPO-16
 - 3. ACIPCO – Series 2500-1
 - iii. Tapping Valve (Cast or Ductile Iron) (14” to 48”)
 - 1. US Pipe – USP1-16
 - 2. Mueller – T-2361-16
 - 3. ACIPCO – Series 2500
 - iv. Insertion Valve
 - 1. Mueller Permaseal
 - 2. Resilient Wedge Gate Valve
- C. Pipe
 - a. Ductile Iron Class 52 with metallic zinc coating layer (ISO 2004) per AWWA C151 (all sizes)
 - i. US Pipe
 - ii. ACIPCO
 - iii. Griffin –
 - 3. Gaskets – Rubber Ring per ASTM D3212 or ASTM F477
 - 4. Joint Restraint (Wedge Action)
 - a. Ebba Iron – Megalug Series 1100
 - b. Romac Industries – RomaGrip
 - c. Griffin – Wedge Action Retainer Gland
 - 5. Lining per AWWA C104
 - a. Cement/mortar mix 1 / 16” min. thickness
 - 4. Polyethelene Encasement
 - a. V-Bio Enhanced Polywrap
 - i. US Pipe

6. Coating

- a. Asphalt Seal Coat min 1 mil thickness
- b. Polyvinyl Chloride (PVC) C900 / DR 18 per AWWA C900-97 (6" – 12" only) CL 150
 - i. Freedom Plastics
 - ii. North American Pipe Corp
 - iii. Certained
 - iv. Vinyltech
 - 1. Tracer Wire – 30 mil Poly Coated Solid Core #10 AWG

D. Hydrants

- a. Ductile Iron Construction per AWWA C502
 - i. 10" Standpipe
 - ii. (2) 2.5" NST nozzles
 - iii. (1) 4.5" NST pumper port
 - iv. Breakaway traffic flange
 - v. 6" Flanged base connector
 - vi. 16" Upper Standpipe length
 - vii. Self draining
 - viii. Square operating nut
 - 1. APICO – Waterous Pacer WB67-250 (5 1/4")
 - ix. Hydrant and Valve box grip – BLR Enterprises Qswego, IL

E. Valves

- a. Main Line / Hydrant Auxiliary / Fire Service – (Sizes 4' – 164')
 - i. Resilient seat wedge gate valves per AWWA C 509
 - 1. East Joran – FlowMaster
 - 2. Mueller – A-2360
 - 3. ACIPCO – Series 2500
 - 4. American Flow Control – Series 2500-(16')
- c. Main Line / Fire Service – (Sizes 16" – 48")
 - i. Butterfly valve per AWWA Class 250B
 - 1. Mueller – Lineseal XP
 - 2. Pratt – HP250II – MJ
 - 3. Val-Matic – Series 2300 MJ
- d. Domestic Service – Compression
- e. Fittings only
 - i. Corporation Stops (1/2" to 2") Ground Key (per AWWA C800)
 - 1. Mueller – B25008N
 - 2. A.Y. McDonald – 74701BQ
 - 3. Ford – FB1000-XX-Q-NL
 - ii. Roundway / Curb Valve (1/2" to 2") Minneapolis thread top (per AWWA C800)
 - 1. Mueller – B25155N
 - 2. A.Y. McDonald – 76104Q
 - 3. Ford – B44-XXXM-Q-NL
 - iii. Self Draining Roundway /Curb Valve
 - 1. A.Y. McDonald – 7600Q with check valve

F. Valve Boxes (6" Hydrant Auxiliary Valves / 4" Fire & Domestic Services / 1/2" – 2" Domestic

Note: Two Piece Cast Iron / Ductile Iron – Screw Type

- a. East Jordan – 8550 Series
 - i. Valve Box Drop Lid
 - 1. East Jordan – 68000 (ejiw.com)
- b. Tyler – 6850 Series
 - ii. Valve Box Drop Lid
 - 1. Tyler – 5.25" Drop "Water"

G. Valve Box Adaptor

- a. Adaptor Inc. – Valve Box Adaptor II

H. Curb Boxes (2" & Smaller Valves – Domestic Service) Note: Four Pieces Cast Iron (Plug, Lid, Upper & Lower Riser) – Minneapolis Pattern Base, Hex Nut

- a. Mueller – Mark II H-10300 Series
 - b. Ford – Type PL-LID
 - c. A.Y. McDonald –5615
- I. Other Watermain Related Products
- a. Cut In Tee w / sleeve
 - i. Mechanical Joint Ductile Iron Tee (per ASTM A536)
 - 1. US Pipe
 - 2. ACIPCO
 - a. Gaskets – Rubber Ring per ASTM D3212 or ASTM F477
 - b. Joint Restraint (Wedge Action)
 - i. Ebba Iron – Megalug Series 1100
 - ii. Romac Industries – RomaGrip
 - c. Joint Restraint (Other)
 - i. US Pipe – MJ Field Lok
 - ii. Mechanical Joint Ductile Iron Sleeve (Full body) per AWWA C153
 - 1. US Pipe – Solid Sleeve
 - 2. ACIPCO – Solid Sleeve
 - b. Air Release Valve / Combo Air & Vacuum
 - iv. Val-Matic – Air Release
 - v. Cal-Val – Model 33A
 - c. Curb Box Cover (when in pavements) – encased in 2’ x 2’ x 8” concrete slab
 - vi. East Jordan – V-8453
 - f. Casing / Carrier Pipe Installation
 - i. Carrier Pipe
 - 1. 1/4” continuously welded Smooth Interior Steel Pipe of at least two inches (2”) in diameter larger than bell diameter
 - *All pipe in carrier pipe must have locking gaskets, and no structures shall be located closer than 20 feet of the end of the carrier pipe
 - ii. Casing Spacers
 - 1. 2 Piece shell of stainless steel construction with poly sliders
 - a. Cascade – CCS
 - b. PSI – Model S
 - iii. End Seals
 - 1. 1 Piece EPDM 60 band tightened seal
 - a. PSI – Model C
 - g. Sampling Station
 - i. Sample stations model # Kupferle Elipse 88-SS
 - ii. Flushing Station
 - iii. Flushing station model # Kupferle 9800



VILLAGE OF ALGONQUIN
PUBLIC WORKS DEPARTMENT

– M E M O R A N D U M –

TO: Engineers, Developers, Contractors

FROM: Village of Algonquin Public Works Department

SUBJECT: **Pavement System Product List**

This memo is to provide you with the current Village of Algonquin approved products for use. The document will call out the generic standards for each item as well as the approved products selected by staff. In general, the Village standards follow IDOT standards for Road and Bridge Construction and the Illinois Standards for Water and Sewer Construction, most current editions. If you would like to use an alternate to any of the items listed you must submit a formal request, in writing, to the Village. Each pavement structure shall be analyzed on a case-by-case basis and subject to evaluation by a soils and design engineer.

- a. Sub-base Material Stabilization (min. dry density of 95%)
 - i. Granular Embankment
 - 1. Coarse Aggregate (Gradation CA 6 – CA 13)
 - i. Crushed Gravel
 - ii. Crushed Stone
 - iii. Crushed Sandstone
 - iv. Crushed Concrete
 - v. Asphalt grindings
 - ii. Soil Modification – per engineer’s recommendation
 - 1. Lime Stabilization (per IDOT Art 310)
 - iii. Geo-Grids
 - 1. Tensar – BX 1100
 - 2. US Fabrics – Basegrid - per engineer’s recommendation
 - 3. Carthage Mills –
- b. Base Materials – Class “C” or better per AASHTO T104
 - i. CA-6 w/fines (roadstone) – Crushed Limestone per IDOT Art. 351(2007)
 - ii. Processed Millings – Reclaimed Asphalt Pavement per IDOT Art. 1031 (2007)
 - iii. Hot-Mix Asphalt per IDOT Art. 355
 - 1. Super-pave Mix design N 50 IL 19.0 (2-1/4” minimum lift)
 - 2. PG 58-28, Max Rap content 25%, 4% Air Voids
- c. Prime (applied to non-asphalt based base course)
 - i. Emulsified Asphalt (apply at .25 gal per sq.yd)
 - 1. SS 1
 - ii. Cutback Asphalt
 - 1. MC-30 (apply at .25 gal per sq.yd)
- d. Hot Mix Asphalt
 - i. Local Roads

1. Binder (Class “B” Aggregate or better)
 - a. Super-pave Mix design N 50 IL 19.0L (2’1/4 minimum lift)
 - b. PG 58-28, Max Rap 25%, 4% Air Voids
2. Surface (Class “B” Aggregate or better)
 - a. Super-pave Mix design N 50 IL 9.5L (1.5” minimum lift)
 - b. PG 46-28, Max Rap content 15%, 4% Air Voids
 - c. Friction Aggregate “C”
3. Murphy Mix Design as directed by the Village
 - ii. Standard Collector (Class “B” Aggregate or better)
 1. Binder (Class “B” Aggregate or better)
 - a. Super-pave Mix design N50 IL 19.0 (2-1/4” minimum lift)
 - b. PG 58-28, Max Rap 25%, 4% Air Voids
 2. Surface (Class “B” Aggregate or better)
 - a. Super-pave Mix design N 50 IL 9.5 (1.5” minimum lift)
 - b. PG 58-28, Max Rap content 15%, 4% Air Voids
 - c. Friction Aggregate “D”
 - iii. Arterial Collector
 1. Binder (Class “B” Aggregate or better)
 - a. Super-pave Mix design N 50 IL 19.0L (2’1/4 minimum lift)
 - b. PG 58-28, Max Rap 25%, 4% Air Voids
 2. Surface (Class “B” Aggregate or better)
 - a. Super-pave Mix design N 50 IL 12.5 (1.5” minimum lift)
 - b. PG 58-28, Max Rap content 15%, 4% Air Voids
 - c. Friction Aggregate “D”
 - iv. Bike Path
 1. Surface (Class “B” Aggregate or better)
 - a. Super-pave Mix design N 50 IL 19.0L (2-1/24” minimum lift)
- e. Reflective Crack Control Treatment
 - i. Polymerized Leveling Binder
 - e. Pavement Marking
 - i. Thermoplastic (100 mils minimum) 1 Non-Toxic, Conforms to FHWA Yellow and White
 - a. Crown Thermo – Echotherm Hydrocarbon
 - ii. Polyurea Paint (20 mils minimum)
 1. Innovative Performance Systems – HPS 5
 2. Epoplex – LS90
 - iii. Preformed Tape
 1. 3M – Stamark Series 380IES
 2. Advance Traffic Markings – ATM Permanent Series 400
 - f. Concrete
 - g. Pavements, Driveways, Curb & Gutter, Sidewalk
 - i. Standard six bag mix (minimum 3500 psi @14 days)
 - ii. Reinforcement
 1. Welded Wire Fabric per AASHTO M55
 2. Dowel Bars per AASHTO M 227 Grade 70
 - iii. Preformed Expansion Joint Fillers
 1. Fiber per AASHTO M213
 - iv. 2. Duralast East Jordon Iron Works, Red
 1. Installation must conform to ADAAG



VILLAGE OF ALGONQUIN
PUBLIC WORKS DEPARTMENT

– M E M O R A N D U M –

TO: Engineers, Developers, Contractors

FROM: Village of Algonquin Public Works Department

SUBJECT: **Restoration & Misc. Product List**

This memo is to provide you with the current Village of Algonquin approved products for use. The document will call out the generic standards for each item as well as the approved products selected by staff. In general, the Village standards follow IDOT standards for Road and Bridge Construction and the Illinois Standards for Water and Sewer Construction, most current editions. If you would like to use an alternate to any of the items listed you must submit a formal request, in writing, to the Village.

Restoration Products

1. Erosion Control Items
 - a. Siltation Fence
 - i. Woven Geotextile Fabric
 1. Mirafi – FW 402
 2. US Fabrics – US 1540
 - b. Inlet Protection
 - i. Perimeter Siltation Box
 1. Mirafi – FW 402
 2. US Fabrics – US 1540
 3. Carthage Mills – FX – 225MF
 - ii. Curb Drop Inserts
 1. Dandy Products – Dandy Curb Sack
 2. Erosion Runner – SedCatch (curb & gutter)
 3. Storm Water Works – Stormsok –
 - iii. Yard Drop Inserts
 1. Dandy Products – Dandy Sack
 - c. Blankets
 - i. Single Netted Products (slopes 3:1 to 2:1)
 1. American Excelsior Company – Curlex CL
 2. Enviroscope – S1000D 90 day
 3. North American Green – Eronet DS75
 4. Ero-Guard – 1sRD
 - ii. Jute-Net Products
 1. North American Green – S75BN, SC150BN
 2. Ero Guard – 2SC NN
 - iii. Coconut Product (slopes 2:1 to 1:1)
 1. East Coast – ECSC-2

2. Enviroscrape – C4000BD
3. Profile – CocoFlex ET-FGM
4. North American Green – SC150
5. Ero Guard – 2SC
- 6.
- iv. Turf Reinforcement Mats (High Flow areas)
 1. Profile – Enkamat 7003
 2. US Fabrics – TRM 12
- v. Staples (metal)
 1. 6” U-Shape
 2. 6” Round Top
2. Other Misc. Restoration Products
 - a. Pavers
 - i. Clay Paver (4” x 8” x 2 ¼”)
 1. Pine Hall Brick Company – Old Series (Color – Old Towne)
 2. Redland Brick – Rocky Ridge #15/Tuscan Collection
 3. Cambridge Pavingstone – Kings Court collection (Color –ruby)
 4. Whitacre Greer – Holland (color – Dark Antique #33)
 - ii. Concrete Pavers
 1. Unilock – Holland Premier (color – Heritage Brown)
 2. Hanover – Traditional Prest Brick
 3. Belgard Hardscapes – Holland Stone (color – Bannockburn Red)
 - b. Paver Edge
 - i. Sidewalks
 1. Snapedge – Snap Edge
 2. Oly – Ola Edgings – Bric Edg
 3. Ez Edge – EZ-002
 - ii. Pavements
 1. Concrete Collars
 2. Pave Tech – Pave Edge
 - c. Detectable Warning Plates for Accessibility
 1. Tuftile - galvanized steel, safety red
 - ii. FED 31350, Color ID: SRD
2. Duralast East Jordon Iron Works, Red (www.ejco.com)