



Appendix B - Color Coded Chart

NASSCO'S PIPELINE ASSESSMENT CERTIFICATION PROGRAM® (PACP®)

Section 4 — Structural Defect Coding

| | | | | | | |
|--|--|---|--|--|---|---|
| <p>C CRACK 4-3</p> <p>CL Longitudinal CC Circumferential CM Multiple CS Spiral CH Hinge (2, 3, 4)</p> | <p>F FRACTURE 4-9</p> <p>FL Longitudinal FC Circumferential FM Multiple FS Spiral FH Hinge (2, 3, 4)</p> | <p>B BROKEN 4-17</p> <p>BSV Soil Visible BVV Void Visible</p> | <p>H HOLE 4-21</p> <p>HSV Soil Visible HVV Void Visible</p> | <p>D DEFORMED 4-25 (Rigid)</p> <p>DR Deformed Rigid</p> <p>No modifiers used.</p> | <p>D DEFORMED 4-25 (Flexible)</p> <p>DFBR Bulging Round DFBI Bulging Inv.Curv. DFC Creasing DFE Elliptical</p> | <p>D DEFORMED 4-25 (Brick)</p> <p>DTBR Bulging Round DTBI Bulging Inv.Curv.</p> |
| <p>X COLLAPSE 4-37</p> <p>X Collapse</p> <p>No descriptors and no modifiers used.</p> | <p>J JOINT 4-43</p> <p>JOS Offset Small JOM Offset Medium JOL Offset Large</p> | <p>J JOINT 4-43</p> <p>JOSD Offset Small Defect JOMD Offset Medium Defect JOLD Offset Large Defect</p> | <p>J JOINT 4-43</p> <p>JSS Separation Small JSM Separation Med. JSL Separation Large</p> | <p>J JOINT 4-43</p> <p>JAS Angular Small JAM Angular Medium JAL Angular Large</p> | <p>S SURFACE 4-51 DAMAGE</p> <p>SRI Roughness Increased SAV Aggregate Visible SAP Aggregate Projecting SAM Aggregate Missing</p> | <p>S SURFACE 4-51 DAMAGE</p> <p>SRV Reinforcement Visible SRP Reinforcmt.Projecting SRC Reinforcmt.Corroded SMW Missing Wall</p> |
| <p>S SURFACE 4-51 DAMAGE</p> <p>SSS Surface Spalling SSC Surface Spalling Coating SCP Surface Damage Corrosion SZ Other</p> | <p>LF LINING FEATURES 4-67</p> <p>LFAC Abdn'd Connection LFAS Annular Space LFB Blistered Lining LFCS Service Cut Shifted</p> | <p>LF LINING FEATURES 4-67</p> <p>LFD Detached LFDC Discoloration LFDE Defective End LFDL Delamination</p> | <p>LF LINING FEATURES 4-67</p> <p>LFOC Overcut Service LFRS Resin Slug LFUC Undercut Service LFW Wrinkled LFZ Other</p> | <p>WF WELD FAILURE 4-85</p> <p>WFC Circumferential WFL Longitudinal WFM Multiple WFS Spiral WFZ Other</p> | <p>RP POINT REPAIR 4-89</p> <p>RPL Liner RPLD Liner Defective RPP Patch RPPD Patch Defective</p> | <p>RP POINT REPAIR 4-89</p> <p>RPR Replacement RPRD Replmt. Defective RPZ Other RPZD Other Defective</p> |
| <p>BRICKWORK 4-97</p> <p>DB Displaced MB Missing DI Dropped Invert</p> | <p>BRICKWORK 4-97</p> <p>MMS Mortar Missing Small MMM Mortar Missing Med. MML Mortar Missing Large</p> | | | | | |



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Section 5 — Operation and Maintenance

| | | | | | | | |
|---|---|---|---|---|---|---|--|
| D DEPOSITS 5-3 (Attached) DAE Encrustation DAGS Grease DAR Ragging DAZ Other | D DEPOSITS 5-4 (Settled) DSF Fine DSGV Gravel DSC Hard/Compact DSZ Other | D DEPOSITS 5-4 (Ingress) DNF Fine (silt/sand) DNGV Gravel DNZ Other | R ROOTS 5-11 (Fine) RFB Barrel RFL Lateral RFC Connection RFJ Joint | R ROOTS 5-11 (Medium) RMB Barrel RML Lateral RMC Connection RMJ Joint | R ROOTS 5-11 (Ball) RBB Barrel RBL Lateral RBC Connection RBJ Joint | R ROOTS 5-11 (Tap) RTB Barrel RTL Lateral RTC Connection RTJ Joint | |
| I INFILTRATION 5-19 IS Stain ISB Barrel ISC Connection ISJ Joint ISL Lateral | I INFILTRATION 5-19 IW Weeper IWB Barrel IWC Connection IWJ Joint IWL Lateral | I INFILTRATION 5-19 ID Dripper IDB Barrel IDC Connection IDJ Joint IDL Lateral | I INFILTRATION 5-19 IR Runner IRB Barrel IRC Connection IRJ Joint IRL Lateral | I INFILTRATION 5-19 IG Gusher IGB Barrel IGC Connection IGJ Joint IGL Lateral | OB OBSTACLES 5-31 OBSTRUCTIONS OBB Brick or Masonry OBC Object Through Connection OBI Object Intruding Through Wall | OB OBSTACLES 5-31 OBSTRUCTIONS OBJ Object in Joint OBM Pipe Material in Invert OBN Construction Debris OBP External Pipe Cable | |
| OB OBSTACLES 5-31 OBSTRUCTIONS OBR Rocks OBS Built In Structure OBZ Other | V VERMIN 5-45 VR Rat VC Cockroach VZ Other | G GROUT TEST 5-49 & SEAL GTP Grout Test Passed GTPJ Joint GTPL Lateral GTF Grout Test Failed GTFJ Joint GTFL Lateral | G GROUT TEST 5-49 & SEAL GTU Grout Test Unable GTUJ Joint GTUL Lateral GRT Grout Test Location | | | | |

Section 6 — Construction Features

| | | | | |
|---|--|---|---|---|
| T TAP 6-3 TB Break-In/Hammer TBI Intruding TBD Defective TBC Capped TBA Activity TBB Abandoned | T TAP 6-3 TF Factory Made TFI Intruding TFD Defective TFC Capped TFA Activity TFB Abandoned | T TAP 6-3 TR Rehabilitated TRI Intruding TRD Defective TRC Capped TRA Activity TRB Abandoned | T TAP 6-3 TS Saddle TSI Intruding TSD Defective TSC Capped TSA Activity TSB Abandoned | IS INTRUDING SEALING MATERIAL 6-15 ISSR Sealing Ring ISSRB Broken ISSRH Hanging ISSRL Loose ISGT Grout ISZ Other |
| L LINE 6-21 (of sewer) LD Down LL Left LLD Left Down LLU Left Up | L LINE 6-21 (of sewer) LR Right LRD Right Down LRU Right Up LU Up | A ACCESS POINT 6-25 ACB Catch Basin ACO Cleanout ACOM Mainline ACOP Property ACOH House | A ACCESS POINT 6-25 ADP Discharge Point AEP End of Pipe AJB Junction Box AM Meter AMH Manhole | A ACCESS POINT 6-25 AOC Other Structure ATC Tee Connection AWA Wastewater Access AWW Wetwell AZ Other |

Section 7 — Miscellaneous Features

| | |
|---|---|
| M MISCELLANEOUS FEATURES 7-1 MCU Camera Underwater MGO General Observation MGP General Photograph MJL Joint Length | M MISCELLANEOUS FEATURES 7-1 MLC Lining Change MMC Material Change MSC Shape/Size Change MSA Survey Abandoned MWL Water Level |
| M MISCELLANEOUS FEATURES 7-1 MWLS Water Level Sag MWM Water Mark MY Dye Test MYV Dye Visible MYN Not Visible | |



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Section 2 — Header Form Fields

| | | | | | |
|--|---|---|--|---|--|
| 14 Weather 2-5 1 = Dry 2 = Heavy Rain 3 = Light Rain 4 = Snow 5 = Dry Weather/Wet Ground | 15 Pre-Cleaning 2-5 H = Heavy Cleaning L = Light Cleaning (Jetting) N = No Pre-Cleaning X = Not Known Z = Other | 17 Flow Control 2-6 B = Bypassed D = Dewatered Using Jetter L = Lift Station N = Not Controlled P = Plugged | 18 Purpose 2-7 A = Maintenance B = Infiltration/Inflow Invest. C = Post-Rehabilitation D = Pre-Rehabilitation E = Pre-Acceptance F = Routine Assessment | 18 Purpose 2-7 G = Capital Improvement Program Assessment H = Resurvey I = SSES R = Pre-Existing Video X = Not Known | 19 Direction 2-7 D = Downstream U = Upstream |
| 20 Inspection Technology 2-8 CC = CCTV LA = Laser SO = Sonar SS = Sidewall Scanning ZM = Zoom ZZ = Other | 21 Inspection Status 2-8 BM = Buried & Marked CI = Complete Inspection NA = No Access NE = Does Not Exist | 21 Inspection Status 2-8 NF = Not Found NI = Traffic NO = Not Opened SD = Surcharged/Debris | 28 Location Code 2-11 A = Primary Major Arterial Road B = Secondary Road C = Local/Rural Street D = Easement/Right-of-Way E = Woods | 28 Location Code 2-11 F = Sidewalk G = Parking Lot H = Alley I = Ditch J = Building K = Creek (or any waterway) | 28 Location Code 2-11 L = Railway M = Airport N = Levee/Floodwall O = Dam P = Levee Pump Station Y = Yard Z = Other |
| 30 Pipe Use 2-12 CB = Combined Pipe DP = Dam Pipe FM = Force Main LG = Levee Gravity Pipe LP = Levee Pressure Pipe | 30 Pipe Use 2-12 PR = Process Pipe SS = Sanitary Sewage Pipe SW = Stormwater Pipe XX = Not Known ZZ = Other | 33 Shape 2-13 E-1 A = Arched B = Barrel C = Circular E = Egg-Shaped H = Horseshoe O = Oval (elliptical) | 33 Shape 2-13 E-1 R = Rectangular S = Square T = Trapezoidal U = U-Shaped with Flat Top Z = Other | 34 Material 2-14 E-4 ABS = Acrylonitrile Butadiene Styrene AC = Asbestos Cement BR = Brick CAS = Cast Iron CLC = Clay-Lined Concrete CMP = Corrugated Metal Pipe | 34 Material 2-14 E-4 CP = Concrete Pipe CSB = Conc. Segments Bolted CSU = Conc. Segments Unbolted CT = Clay Tile DIP = Ductile Iron Pipe |
| 34 Material 2-14 E-4 FRP = Fiberglass Reinforced Pipe OB = Orangeburg/Pitch Fiber PCCP = Pre-Stressed Concrete Cylinder Pipe PCP = Polymer Concrete Pipe PE = Polyethylene | 34 Material 2-14 E-4 PP = Polypropylene PSC = Plastic/Steel Composite PVC = Polyvinyl Chloride RCP = Reinf. Concrete Pipe RPM = Reinf. Plastic Pipe SB = Segmented Block | 34 Material 2-14 E-4 SP = Steel Pipe VCP = Vitrified Clay Pipe WD = Wood XXX = Not Known ZZZ = Other | 35 Lining Method 2-15 E-17 CIP = Cured-In-Place Pipe FF = Fold and Form FP = Formed-In-Place Liner GP = Grout-In-Place Liner GRC = Glass Reinf. Cement N = None SC = Continuous Slip Liner | 35 Lining Method 2-15 E-17 SE = Sectional Slip Liner SL = Spray Liner SN = Segmented Panel SP = Segmented Pipe SW = Spiral Wound XX = Not Known ZZ = Other | 36 Coating Method 2-16 E-23 CT = Coal Tar CM = Cement Mortar EP = Epoxy PE = Polyethylene |
| 36 Coating Method 2-16 E-23 PO = Polyurethane PU = Polyurea PVC = Polyvinyl Chloride XX = Not Known ZZ = Other | 58 GPS Accuracy 2-27 L = Survey Level M = Sub-Meter N = Nearest Meter | | | | |

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