

TABLE OF CONTENTS

SECTION 100 – ENGINEERING DESIGN GUIDELINES (RESERVED)

SECTION 200 - PROJECT REQUIREMENTS

201	Development
202	Definition of Terms
203	Abbreviations
204	Summary of Work
205	Site Conditions
206	Contractor Use of Premises
207	Control of Work
208	Control of Materials
209	Legal Relations and Responsibilities to the Public
210	Environmental Protection Procedures
211	Submittals
212	Trench Safety Requirements
213	Testing of Pipelines
214	Summary of Testing (Miscellaneous)
215	Project Closeout
216	Project ID Signage
217	Warranty
218	Inspection of Projects

SECTION 300 - GENERAL SPECIFICATIONS

301	Barricades, Signs and Traffic Handling
302	Site Preparation
303	Site Clearing
304	Trenching, Backfilling and Compaction
305	Granular Fill Materials
306	Sedimentation and Temporary Erosion Control
307	Loaming, Hydroseeding and Permanent Erosion Control
308	Miscellaneous Work and Clean-up
309	Structural Excavation



SECTION 400 - DRAINAGE SPECIFICATIONS

- 401 Storm Sewer Manholes
- 402 Reinforced Concrete Pipe (RCP)
- 403 HDPE Pipe
- 404 Vortex Separators
- 405 Gabion Structures
- 406 Pile Repair Sleeves
- 407 Restraint and Blocking
- 408 Rock Riprap

SECTION 500 - TRANSPORTATION SPECIFICATIONS

- 501 Hot mix Asphaltic Concrete Pavement
- 502 Roadway Excavation
- 503 Embankment
- 504 Flexible Base
- 505 Striping
- 506 Lime Stabilization
- 507 Geogrid

SECTION 600 - WATER SPECIFICATIONS

- 601 Ductile Iron Pipe and Fittings
- 602 Polyvinyl Chloride (PVC) Pipe Water
- 603 Valves, Hydrants and Appurtenances
- 604 Encasement Pipe

SECTION 700 - WASTEWATER SPECIFICATIONS

- 701 Precast Concrete Manholes
- 702 Polyvinyl Chloride (PVC) Pipe-Wastewater
- 703 Connections to and Work on the Existing System
- 704 Abandoning Manholes



SECTION 800 - CONCRETE SPECIFICATIONS

801	Concrete Structures
802	Concrete for Structures
803	Concrete Riprap
804	Concrete Curb and Gutter
805	Concrete Sidewalks, Driveways and Flatwork
806	Membrane Curing
807	Reinforcing Steel
808	Flowable Backfill
809	Concrete Paving
810	Shotcrete

SECTION 900 - DETAILS

900.10 POLLUTION CONTROL

PC-01	Interceptor Swale
PC-02	Diversion Dike Detail
PC-03	Slope Drain Detail
PC-04	Rock Riprap Size Selection
PC-05	Riprap Outlet Design
PC-06	Level Spreader – Schematic and Perspective
PC-07	Level Spreader – Lip Options
PC-08	Effect of Subsurface Drain
PC-09	Subsurface Drainage Patterns
PC-10	Surface Inlets for Subsurface Drains Schematic
PC-11	Subsurface Drain Envelope Schematic
PC-12	Typical Initial Anchor Trench For Blankets and Mats
PC-13	Typical Terminal Anchor Trench For Blankets and Mats
PC-14	Temporary Construction Entrance / Exit
PC-15	Cross-Section of a Construction Entrance / Exit
PC-16	Silt Fence Installation
PC-17	J-Hook Placement
PC-18	Triangular Filter Dike
PC-19	Tire Wash Facility
PC-20	Rock Berm Detail
PC-21	High Service Rock Berm
PC-22	Brush Berm Detail
PC-23	Rock Check Dam Detail



PC-24	Filter Fabric Inlet Protection
PC-25	Wooden Weir Curb Inlet Protection
PC-26	Sediment Trap Detail
PC-27	Sediment Basin Detail
PC-28	Utility Crossing or Excavation Within Creek Schematic
PC-29	Typical Temporary Ford Crossing Schematic
PC-30	Typical Temporary Culvert Crossing Schematic
PC-31	Typical Bridge Crossing
PC-32	Concrete Washout Areas
PC-33	Lined Waterway or Outlet
PC-34	Creek Buffer Zone
PC-35	Vegetated Swales
PC-36	Vegetated Filter Strips
PC-37	Permeable and Semi-Pervious Pavement
PC-38	Porous Asphalt Permeable and Semi-Pervious Pavement
PC-39	Discharge of Roof Drains to Pervious Surface
PC-40	Subsurface Treatment Devices SC – Type Separator
PC-41	Subsurface Treatment Devices CPS – Separator
PC-42	Subsurface Treatment Devices API – Separator
PC-43	Extended Detention Basin
PC-44	Retention Ponds
PC-45	Detention Pond Outlet for Erosion Protection and Storm Water Quality Benefits
PC-46	Cluster Design – Pre-Project
PC-47	Cluster Design – Post Project
PC-48	Preservation of Existing Tree Canopy



900.20**TRANSPORTATION (RESERVED)**

T-01	Typical Half Cross – Sections for Local/Collector Streets
T-02	Typical Half Cross – Sections for Arterial Streets
T-03	Typical Half Cross – Sections for Arterial Streets
T-04	Typical Rural Paving Standard
T-05	Typical Rural (Collector) Paving Standard
T-06	Cross Sections Notes
T-07	Curb Return and Concrete Valley Gutter Standard
T-08	Local/Minor Collector Cul-de-Sac Plan
T-09	Marginal Access Cul-de-Sac Plan
T-10	Curb Stamp Standard
T-11	Curb and Gutter Standard
T-12	Mountable Curb and Gutter Standards
T-13	Ribbon Curb Standards
T-14	Sidewalk Section and Joint Standard
T-15	Hike and Bike Section Detail
T-16	Freespan Sidewalk Sections
T-17	Concrete Driveway Approach Typical
T-18	Concrete Dip Driveway Approach
T-19	Rural Residential Driveway Approach with Culvert Pipe
T-20	Rural Non-Residential Undivided Driveway Approach with Culvert Pipe
T-21	Standard Type III Barricade – Short Term
T-22	Standard Type III Barricade – Long Term
T-23	Type III Barricade (Post Type) Typical Application
T-24	Universal Anchor System (Type III Barricade)
T-25	Poz-Loc (Driveable, Type III Barricade)
T-26	Standard Street Sign Detail
T-27	Triangular Slip Base System SMD(SLIP-1)-08
T-28	Project Sign Type II
T-29	Pedestrian Ramps General Notes
T-30	Typical Intersection Layout
T-31	Curb Ramps Placements at Intersections
T-32	Sidewalk Ramp Details Type 1-3
T-33	Sidewalk Ramp Detail Type 4
T-34	Sidewalk Ramp Detail Type 6
T-35	Sidewalk Ramp Detail Type 7
T-36	Sidewalk Treatment at Driveways
T-37	Driveway Aprons Types 12-13



T-38	Curb Ramp Details at Median Islands Type 20-21
T-39	Curb Ramp Detectable Warning Pavers
T-40	Removable Hand Rail
T-41	Temporary All Weather Driving Surface
T-42	Temporary All Weather Driving Surface Turn Around
T-43	Pedestrian Bridge – Elevation & Bearing Assembly
T-44	Pedestrian Bridge – Sections
T-45	Solar Powered Roadside Flashing Beacon Assembly Details (Aluminum)
T-46	Solar Powered Roadside Flashing Beacon Assembly
NOTE:	IN THE ABSENCE OF CITY OF KILLEEN STANDARD TRANSPORTATION DETAILS, THE APPLICABLE TXDOT ROADWAY STANDARD DETAILS SHALL BE USED.

900.30 DRAINAGE

D-01	Curb Inlet Detail
D-02	Curb Drain Inlet Typical Section
D-03	Standard Storm Sewer Manhole Set
D-04	Standard Storm Drain Manhole Set
D-05	Standard Storm Sewer Manhole Plan
D-06	Standard Storm Sewer Manhole - Section
D-07	Typical Concrete Rip-Rap at Pipe
D-08	Energy Dissipator Detail
D-09	Trench and Embedment Detail for Storm Sewer
D-10	Trench and Embedment Notes Storm Sewer
D-11	HDPE Pipe Connection to Inlet/Manhole
D-12	Soil-Tight Structure Connection Type I Detail
D-13	Watertight Structure HDPE Connection Type I Detail
D-14	Watertight Structure Connection Type 2 Detail
D-15	Watertight Structure Connection Type 3 Detail
D-16	Grass Lined Channel
D-17	Concrete Lined Channel
D-18	Soil-Tight Structure Connection Detail
D-19	Drop Structure Detail
D-20	Area Inlet Detail
D-21	Combination Inlet Detail
D-22	Combination Inlet Detail (Top and Side)
D-23	Concrete Drainage Flume
NOTE:	IN THE ABSENCE OF CITY OF KILLEEN STANDARD DRAINAGE DETAILS, THE



APPLICABLE TXDOT BRIDGE STANDARD DETAILS SHALL BE USED.

900.40

GENERAL

- G-01A Typical Utility Assignment for Sidewalk at Property Line
- G-01B Typical Utility Assignment for Sidewalk at Back of Curb
- G-02 Embedment and Backfill Standards – Outside Paved Areas
- G-03 Embedment and Backfill Standards – Gravel Road
- G-04 Embedment and Backfill Standards – Existing or Future Roadway (Asphalt on Concrete)
- G-05 Embedment and Backfill Standards – Existing or Future Roadway (Asphalt on Flex Base)
- G-06 Embedment and Backfill Standards – Existing or Future Roadway (Concrete Pavement Replacement)
- G-07 Concrete Cap and Encasement Standard
- G-08 Installation of PVC Pipe Through Casing

900.50

WATER

- W-01 Typical Water Service - Elevation
- W-02 Single Water Service - Plan
- W-03 Double Water Service - Plan
- W-04 Typical Valve Setting
- W-05 Standard Flush Assembly
- W-06 Automatic Flush Assembly
- W-07 Typical Fire Hydrant Installation
- W-07B Typical Fire Hydrant Installation - Notes
- W-08 Typical Thrust Blocks for Water and Force Mains
- W-09 Standard Air Release Valve for Water Main – Side Vent
- W-10 Residential Meter Box
- W-11A Meter Vault Layout
- W-11B Meter Vault Notes
- W-12 Tapping Sleeve and Valve



900.60**WASTEWATER**

WW-01	Standard Manhole Plan – Outside Roadway
WW-02	Standard Manhole Plan – Inside Roadway
WW-03	Standard Manhole Section
WW-04	Drop Connection Precast Manhole
WW-05	Manhole Vent
WW-06	Manhole Notes
WW-07	Flow Patterns for Invert Channels
WW-08	Standard Wastewater Manhole Set
WW-09	Concrete Cone Sections
WW-10	48” Manhole Flat Lid Section
WW-11	Flexible “Seal Boot” Connector
WW-12	Sewer Clean – Out Standard
WW-13	Sewer Service Connections
WW-14	Gasketed Sewer Fitting for Sewer Service Connections to Existing Mains
WW-15	Standard Air Release Valve for Force Main - Side Vent

