

**SECTION 00 13 40
LIST OF SUBMITTALS**

01 00 00 GENERAL REQUIREMENTS:

1. OSHA Certification "Competent Person"
2. Employees Training Record - OSHA 10Hr
3. Confined Space Training Certification
4. Copy of Confined Space Permit
5. Security Plan
6. Vehicle Authorization Requests
7. Fire Safety Plan
8. Hot Work Permit(s)
9. Construction/Phasing Schedule
10. Utility Interrupt Request(s)
11. Existing Conditions Survey Report
12. Re-Survey Conditions Report
13. Professional Surveying Certification
14. Certification of Control Points
15. Certification of line grades and plumbness
16. Certification of line and elevations for storm sewers, drainage swales, roads, parking lots, and streets
17. As-Built Drawings
18. O&M Manuals - 4 copies
19. Digging Permit
20. Excavation Safety Inspection Checklist(s)
21. Waste Management Plan
22. Waste Management Progress Reports
23. Environmental Requirement Checklist
24. Badge Information (each worker)

01 01 10 MEDICAL CENTER REQUIREMENTS:

1. Weekly Safety Inspection Form
2. Competent Person Interview Worksheet Form #3010v.1
3. MSDS for all Hazardous Materials
4. Waste Manifest for Special or Hazardous Waste, if hazardous waste is encountered.
5. Superintendent Cell Phone #
6. Road Closure Permit(s)

01 45 29 TESTING LABORATORY SERVICES:

1. Certification of Accreditation - Soils Lab
2. Certification of Accreditation - Concrete Lab
3. Test Report - Fill Proof Rolling
4. Test Reports - Subgrade Proof Rolling
5. Test Reports - Subbase Proof Rolling
6. Modified Proctor Compaction - Subgrades & On-Site Materials
7. Modified Proctor Compaction - Asphalt Pavement Subbase Material
8. Modified Proctor Compaction - Pipe Bedding
9. Modified Proctor Compaction - Trench Backfill Material
10. Modified Proctor Compaction - Concrete Subbase(s)
11. Modified Proctor Compaction - Drainage Structure Subbase
12. Modified Proctor Compaction - Gravel Pavement
13. Modified Proctor Compaction - Fill and Backfill Material(s)

14. Compaction Tests - Asphalt Pavement Subgrade
15. Compaction Tests - Concrete Curb Subgrade
16. Compaction Tests - Concrete Ramps Subgrade
17. Compaction Tests - Gravel Pavement Subgrade
18. Compaction Tests - Foundation and Footing Subgrade
19. Compaction Tests - Concrete Sidewalk Subgrade
20. Compaction Tests - Concrete Slab Subgrade
21. Compaction Tests - Concrete Steps Subgrade
22. Compaction Tests - Drainage Structures Subgrade
23. Compaction Tests - Asphalt Pavement Subbase
24. Compaction Tests - Concrete Sidewalk Subbase
25. Compaction Tests - Concrete Slab Subbase
26. Compaction Tests - Concrete Steps Subbase
27. Compaction Tests - Concrete Ramps Subbase
28. Compaction Tests - Drainage Structures Subbase
29. Compaction Tests - Drainage Piping Trenches
30. Compaction Tests - Gravel Pavement
31. Compaction Tests - Fills
32. Compaction Tests - Foundation and Footing Fills
33. Footing Soil Bearing Capacity Results
34. Test Reports - Material Suitability
35. Test Report - Topsoil
36. Concrete Field & Materials Inspection Reports
37. Concrete Tests of Field Samples
38. Test Reports - Mortar
39. Inspection Report(s) - Structural Steel
40. Welders Certification - Structural Steel
41. Instances of Noncompliance - Structural Steel

01 57 19 TEMPORARY ENVIRONMENTAL CONTROLS:

1. Compliance Issue Reports
2. Environmental Protection Plan

01 74 19 CONSTRUCTION WASTE MANAGEMENT:

1. Demolition Debris Management Plan
2. Designated Manager (Waste Management)
3. Monthly Summary of Debris Diversion & Disposal (Report)

02 82 11 TRADITIONAL ASBESTOS ABATEMENT:

1. Asbestos Hazard Abatement Plan
2. Work Schedule
3. Personnel Chart
4. Copies of Required Contractor and State Licenses, Insurance Policies
5. Emergency Action Plan
6. Material and Equipment - Air Supply and Water Filtration Systems
7. Material and Equipment - Verification of Delivery to Site
8. Approved Landfill
9. Testing Laboratory
10. Product Data - Encapsulants including MSDS and Application Instructions
11. Daily Logs
12. Final Report
13. Certificate of Compliance - Manufacturer's Compliance with Encapsulant Performance

02 83 33.13 LEAD-BASED PAINT REMOVAL AND DISPOSAL:

1. Training - Submit Copies of Employee Training Certificates
2. Hazardous Waste Management Plan
3. Manufacturer's Catalog Data - Vacuum Filters
4. Manufacturer's Catalog Data - Respirators
5. Instructions - Paint Removal Materials and Safety Sheets
6. Statement Certifications - Qualifications of CIH
7. Statement Certifications - Testing Laboratory
8. Statement Certifications - Lead-Containing Paint Removal Plan
9. Statement Certifications - Field Test Reports; Monitoring Results
10. Statement Certifications - Hazardous Waste Manifests
11. Statement Certifications - Certification of Medical Examinations
12. Statement Certifications - Employee Training Certification

03 30 00 CAST-IN-PLACE CONCRETE:

1. Shop Drawing - Concrete Steps
2. Shop Drawing - Concrete Walk with Handrails
3. Shop Drawing - Light Pole Base
4. Mill Test - Rebar
5. Mill Test - Cement
6. Certification - Aggregate(s)
7. Certification - Air-entraining Admixture
8. Certification - Chemical Admixtures
9. Certification - Waterproof paper
10. Certification - Liquid membrane-forming compounds
11. Certification - Non-Shrinking Grout
12. Certification - Liquid Hardener
13. Certification - Waterstops
14. Certification - Expansion Joint Filler
15. Certification - Adhesive Binder
16. Approval Request - Testing Agency
17. Test Report - 3,000 psi
18. Test Report - 4,000 psi
19. Test Report - 5,000 psi

04 05 13 MASONRY MORTARING:

1. Testing Laboratory Certification
2. Test Reports - Type M Mortar Compressive Strength
3. Test Reports - Type s Mortar Compressive Strength
4. Test Reports - Type N Mortar Compressive Strength
5. Test Reports - Cement: Water Soluble Alkali
6. Test Reports - Sand
7. Certificates - Portland Cement
8. Certificates - Masonry Cement
9. Certificates - Mortar Cement
10. Certificates - Hydrated Lime
11. Certificates - Fine Aggregate (Sand)
12. Laboratory Test Report - Admixture Effects

04 05 31 MASONRY TUCK POINTING:

1. Certification - Mortar Meets ASTM C270

04 20 00 UNIT MASONRY:

1. Samples - Face Brick
2. Samples - Concrete Masonry Units
3. Samples - Anchors and Ties
4. Shop Drawings - Special Masonry Shapes
5. Shop Drawings - Reinforcement Drawings
6. Certificates - Shipment Delivery Each Type of Brick and Concrete Masonry Unit
7. Certificates - Testing Laboratory and Qualifications
8. Manufacturer's Literature - Anchors, Ties and Reinforcement
9. Warranty - Warranty of Construction

04 72 00 CAST STONE MASONRY:

1. Samples - Color Chips
2. Samples - Full Scale Mock-up
3. Shop Drawings - Cast Stone Drawings
4. Shop Drawings - Setting Drawings
5. Certificates - Plant Certification and Specification Requirements
6. Test Results -Manufacturer Cast Stone Previously Made
7. Certificates - Testing Laboratory and Qualifications
8. Certificates - Previous Jobs by Manufacturer
9. Warranty - Warranty of Construction

05 12 00 STRUCTURAL STEEL FRAMING:

1. Shop Drawings - Shop and Erection Drawings
2. Shop Drawings - Connection Calculations
3. Certificates - Structural Steel
4. Certificates - Connection Steel
5. Certificates - Welding Materials
6. Certificates - Shop Coat Primer Paint
7. Test Reports - Welder Qualifications
8. Record Surveys

05 50 00 METAL FABRICATIONS:

1. Manufacture's Information and Data - Safety Nosing
2. Manufacture's Information and Data - Handrail
3. Shop Drawing - Handrail
4. Shop Drawings - Loose Lintels
5. Manufacture's Certification - Handrail Live Load
6. Design Calculations - Handrail

06 10 00 ROUGH CARPENTRY:

1. Shop Drawings - Connection Details
2. Product Data - Lumber Types including Species and Grades
3. Product Data - Fire Retardant Treatment
4. Product Data - Preservative Treatment
5. Product Data - Connectors
6. Product Data - Adhesives

07 01 50.19 PREPARATIONS FOR RE-ROOFING:

1. Product Data - Temporary Roofing Materials
2. Documentation - Video or Photographic Documentation of Existing and Adjacent Building Conditions
3. Landfill Records
4. Certification - Licensed Installer Qualifications
5. Certification - Installer Approval by Roofing System Manufacturer

07 21 13 THERMAL INSULATION:

1. Product Data - Each Type Insulation
2. Product Data - Adhesives and Tape
3. Certification - Each Type Insulation Indicating Thickness and "R" Values

07 31 13 ASPHALT SHINGLES:

1. Samples - Shingles Indicating Type, Color and Texture
2. Product Data - Manufacturer's Shingle Literature
3. Product Data - Installation Instructions
4. Product Data - Fasteners
5. Product Data - Roofing Felt
6. Product Data - Ridge Vent and Installation Instructions

07 60 00 FLASHING AND SHEET METAL:

1. Shop Drawings - Flashing Configurations
2. Product Data - Manufacturer's Flashing Literature
3. Product Data - Flashing Accessories Including Fasteners, Rosin Paper, Solder and Sealants
4. Certification - Compliance of Flashing Finishes From Manufacturer and Installer

07 84 00 FIRESTOPPING:

1. Manufacturer's literature and data for firestopping and smoke stopping
2. List of FM, UL, or WH classification number of systems installed
3. Certified laboratory test reports for ASTM E814 tests for systems not listed by FM, UL, or WH proposed for use.

07 92 00 JOINT SEALANTS:

1. Installation Instructions (each product used)
2. Cured color samples of exposed sealants
3. Product Data - Literature - Primers
4. Product Data - Literature - Sealing Compounds, Each Type
5. Product Data - Sealant Backers
6. Product Data - Chemical Cleaners Approved By Sealant Manufacturer
7. Warranty - Warranty of Construction
8. Adhesion Field Tests - Logs Include Installation Test Dates, Installer, Locations, If Primed, Adhesion Results

08 11 13 HOLLOW METAL DOORS AND FRAMES:

1. Product Data - Manufacturer's Literature of Each Hollow Metal Product Used

2. Product data - Manufacturer's Literature - Reinforcement and Anchors

08 31 13 ACCESS DOORS AND FRAMES:

1. Shop Drawings - Access Doors
2. Manufacturer's Literature and Data - Access Doors

08 51 13 ALUMINUM WINDOWS:

1. Certification - Manufacturer's Compliance With Specifications
2. Certification - Manufacturer Qualifications
3. Certification - Installer's Qualifications
4. Shop Drawings - Each Window Unit Type and Required Fabricated Shapes
5. Product Data - Each Window Type
6. Product data - Sash Locks, Screens, Fasteners, keepers and Keys
7. Product Data - Test Reports Including Thermal and Condensation Performance
8. Samples - Include Specified Finishes
9. Warranty - Warranty of Construction

08 71 00 DOOR HARDWARE:

1. Product Data - Maintenance Manual and Operating Instructions
2. Shop Drawings - Required Copies of Hardware Schedule
3. Product Data - All Hardware Items Proposed for Project Use
4. Certification - Hardware Conforms to Requirements Specified
5. Certification - Test Reports
6. Certification - Letter to Owner Stating Final Hardware Adjustment, Owner Review of Maintenance Procedures, Problem Identification and Item Failures

08 71 13 AUTOMATIC DOOR OPERATORS:

1. Product Data - Maintenance Manual and Operating Instructions
2. Product Data - Manufacturer's Literature
3. Warranty - Warranty of Construction
4. Shop Drawings - Required Copies of Hardware Schedule
5. Shop Drawings - Product Components, Profiles, Accessories and Controls
6. Shop Drawings -Template, Fabrication and Wiring Details

08 80 00 GLAZING:

1. Certification - Shading Coefficient
2. Certification - Specified "R" Value
3. Warranty - Warranty of Construction
4. Product Data - Manufacturer's literature Each Type of Glass
5. Product data - Glazing Cushion
6. Product Data - Sealing Compounds
7. Samples - Each Type of Glass
8. Test Report - Adhesion and Compatibility Tests

09 06 00 SCHEDULE FOR FINISHES:

1. Submittals - Manufacturer's Color Samples for Each Product Requiring Color and Finish Selection

09 22 16 NON-STRUCTURAL METAL FRAMING:

1. Product Data - Manufacturer's Literature for Steel Studs and Furring Channels
2. Product Data - Fasteners
3. Samples - Each Item to be Used

09 29 00 GYPSUM BOARD:

1. Product Data - Manufacturer's Literature for Each Gypsum Board Type
2. Product Data - Manufacturer's Literature for Edge Trim and Finishing materials
3. Product Data - Fasteners
4. Shop Drawings - Showing Installation and Edge Trim Details

09 51 00 ACOUSTICAL CEILING:

1. Product Data - Manufacturer's Literature for Each Acoustic Ceiling Type
2. Product data - Manufacturer's Literature for Ceiling Suspension System
3. Certification - Each Product Meets Specifications
4. Samples - Each Product with Label Indicating Conformance to specifications

09 65 13 RESILIENT BASE AND ACCESSORIES:

1. Product Data - Manufacturer's Literature Each Product
2. Product data - Manufacturer's Recommended Adhesive
3. Samples - Each Product to be Used
4. Product Data - Manufacturer's Installation Instructions

09 65 19 RESILIENT TILE FLOORING:

1. Product Data - Manufacturer's Literature Each Product
2. Product Data - Manufacturer's Recommended Adhesive, Underlayment, Primers and Polish
3. Product Data - Manufacturer's Installation Instructions
4. Samples - Each Product to be Used
5. Shop Drawings - Indicating Patterns and Tile Layouts
6. Test Reports - Abrasion Resistance of Each Tile

09 91 00 PAINTING:

1. Product Data - Manufacturer's Literature
2. MPI Approved Product List
3. Manufacturer's Certification(s)

10 26 00 WALL AND DOOR PROTECTION:

1. Product Data - Manufacturer's Literature
2. Test Report - Compliance with Fire Safety Codes
3. Samples - Wall Coverings and Trim
4. Samples - Wall Guards and Fasteners
5. Shop Drawings - Showing Installation Details and Joint Locations

10 44 13 FIRE EXTINGUISHER CABINETS:

1. Manufacturer's Literature and Data - Fire Extinguisher Cabinet

10 73 00 PROTECTIVE COVERS:

1. Product Data - Manufacturer's Literature, Detail Sheets and Specifications
2. Shop Drawings - Layout and Erection Details
3. Samples - Color Selections
4. Certification - Manufacturer's Qualifications
5. Certification - Installer's Qualifications
6. Quality Assurance - Structural Design Calculations
7. Installation Instructions

12 48 13 ENTRANCE FLOOR MATS AND FRAMES:

1. Product Data - Manufacturer's Literature
2. Test Report - Compliance with Fire Safety Codes
3. Shop Drawings - Installation Details
4. Quality Assurance - Slip Resistance
5. Quality Assurance - Load Performance

23 05 11 COMMON WORK RESULTS FOR HVAC:

1. Certification - Welders Qualifications
2. Execution - Manufacturers' Written Installation Instructions
3. Execution - Complete Layout Drawings
4. As Required - List of Previous Installations
5. Shop drawings - Equipment Arrangements
6. Shop Drawings -Manufacturer Review Certification
7. Shop Drawings - Descriptive Information
8. Samples - Description of Characteristics Different From Specification
9. Equipment - Manufacture's Literature
10. Equipment - Electric motor Data
11. Equipment - Fire Stopping Material
12. Equipment - Hangers, Supports and Bracing Load Calculations
13. Equipment - Wall, Floor and Ceiling Plate Literature
14. Data - Data and Operating Instructions
15. Data - List of Recommended Replacement Parts
16. Data - Copies of Approved HVAC Equipment Submittals to Testing, Adjusting and Balancing Subcontractor
17. Operating and Performance - Test Reports
18. General Requirements - Instructions to VA Personnel

23 05 93 TESTING, ADJUSTING, AND BALANCING FOR HVAC:

1. Quality Assurance - TAB Agency and Specialist Certifications
2. TAB Agency and Specialist - Three Most Recent Projects and Equipment List
3. Test Equipment - Calibration History
4. Publications - AABC or NEBB
5. Reports - Design Review Report
6. Reports - Systems Inspection Report
7. Reports - Systems Readiness Report

8. Reports - Intermediate and Final TAB Reports
9. Reports - Deficiency Explanations
10. Reports - Completed Test and Balance Report

23 07 11 HVAC AND BOILER PLANT INSULATION:

1. Shop Drawings - Insulation Materials, Facings, Jackets and Accessories
2. Shop Drawings - Installation Instructions
3. Samples - Each Type of Insulation Materials, Facings, Jackets and Accessories
4. Execution - Required Pressure Test Results

23 21 13 HYDRONIC PIPING:

1. Quality Assurance - Welder's Certification
2. Manufactures Literature - Pipe and Equipment Supports, Pipe and Tubing, Pipe Fittings, Flanges, Gaskets and Bolting, Valves, Strainers, Flexible Connectors, Pipe Alignment Guides, Expansion Joints, Expansion Compensators, All Hydronic System Components
3. As-Built Drawings - Piping Diagrams, Reproducible and Autocad pdf
4. Spare parts - Tools

23 22 13 STEAM AND CONDENSATE HEATING PIPING:

1. Manufactures Literature - Pipe and Equipment Supports, Pipe and Tubing, Pipe Fittings, Flanges, Gaskets and Bolting, Valves, All Steam System Components
2. As-Built Drawings - Reproducible drawings

23 25 00 HVAC WATER TREATMENT:

1. Manufactures Literature and Data - Cleaning Compounds, Chemical Treatment Instructions, Water Analysis Verification, Materials Safety Data Sheet, Maintenance and Operating Instructions

26 05 11 REQUIRMENTS FOR ELECTRICAL INSTALLATIONS:

1. Sample - Wire & Cable (each type)
2. Sample - Conduit Coupling, Bushing, and Termination (each type)
3. Sample - Wire and Cable Splicing & Terminating Material
4. Sample - Duct Sealing Compound
5. Sample - Each Type of Receptacle
6. Products - Certified Test Reports
7. Shop Drawings - confirmation Compliance with Contract Documents
8. Shop Drawings - Wiring Diagrams
9. Shop Drawings - List of Replacement Parts
10. Manuals - Maintenance and Operation
11. Training - Training Schedule

26 05 21 LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES:

1. Literature and Data - Each Cable Type and Rating
2. Certification - Materials & Installation

26 05 26 GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS:

1. Shop Drawing(s) - Location & Routing
2. Certified Test Reports
3. Certification - Materials & Installation
4. Certification - Testing

26 05 33 RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS:

1. Manufacturer's Literature & Data - Conduit
2. Shop Drawing(s) - Conduit Layout & Sizes, Panel and Pull Boxes
3. Shop Drawing(s) - Conduit Penetrations (if required)
4. Certification - Materials & Installation

26 05 41 UNDERGROUND ELECTRICAL CONSTRUCTION:

1. Shop Drawing(s) - Layout (incl Manholes, Pullboxes, Duct Materials, Hardware)
2. Shop Drawing(s) - Precast Handhole (if required)
3. Certification - Materials
4. Certification - Installation & Testing

26 05 71 ELECTRICAL SYSTEM PROTECTIVE DEVICE STUDY:

1. Manufactures Product data - Software Program
2. Protective Device - Certification
3. Protective Device - Coordination Curves, Table

26 24 16 PANELBOARDS:

1. Shop Drawings - Electrical Ratings, Dimensions, Details, Materials, Wiring Diagrams, Accessories, and Weight of Equipment
2. Manuals - Maintenance and Operating with Technical Data and Wiring Diagrams
3. Certifications - Material Manufacture, Installation, Connection and Testing

26 27 26 WIRING DEVICES:

1. Shop Drawings - Electrical Ratings, Dimensions, Details, Materials, Grade and Termination Information
2. Manuals - Technical Data Sheets
3. Certifications - Installation

26 51 00 INTERIOR LIGHTING:

1. Product Data - Luminaire Specifications, Details, Dimensions, Wiring Diagram, Energy Efficiency, Photometric Data, Lamp Data, Ballast Data
2. Manuals - Maintenance and Operation
3. Certifications - Installation

26 56 00 EXTERIOR LIGHTING:

1. Shop Drawing(s) - Electrical ratings, Dimensions, Mounting, Details, Materials, Clearances, Terminations, Wiring Diagrams, Photometric Data, Ballasts, Poles, Lamps, Luminaires, and Accessories

2. Manuals - Maintenance and Operation
3. Certification - Materials
4. Certification - Installation & Testing

28 05 11 REQUIRMENTS FOR ELECTRONIC SAFETY AND SECURITY:

1. Qualifications - Manufacturer, Service
2. Equipment and Material - Approval Prior to Delivery
3. Shop Drawings - Contract Compliant
4. Manuals - Maintenance and Operation
5. Training - Schedule

28 05 13 CONDUCTORS AND CABLES FOR ELECTRONIC SAFETY AND SECURITY:

1. Shop Drawings - Manufactures Literature and Data, and Certifications

28 05 33 RACEWAY AND BOXES FOR ELECTRONIC SAFETY AND SECURITY:

1. Shop Drawings - Size and Main Feeder Locations, Panels and Pull Boxes, Penetration Layouts
2. Certifications - Installation

28 31 00 FIRE DETECTION AND ALARM:

1. Shop Drawings - Autocad Compliant, Floor Plans Details, Riser Diagrams, Wiring Diagrams
2. As-Built drawings - Autocad Compliant
3. Manuals - Wiring Diagrams, Software, Maintenance and Operation
4. Messages - Complete Listing of All Digitized Voice Messages
5. Calculations - Stand-By Batteries
6. Data - Replacement Parts List
7. Data - Computerized Preventative Maintenance Schedule
8. Data - Device Circuitry Printout
9. As-Built - Wiring and Schematic Diagrams
10. Certifications - Manufacturers and Installations
11. Certifications - Technicians NICET Level III
12. Personnel - Work Tickets

31 20 00 EARTH MOVING:

1. Rock Excavation Report(s) (if required)
2. Resumes (all personnel)
3. Soil Classification & Compaction Curve - Trench Backfill
4. Soil Classification & Compaction Curve - Pavement Subbase
5. Soil Classification & Compaction Curve - Concrete Subbase(s)
6. Soil Classification & Compaction Curve - Pipe Bedding
7. Test Report - Subbase Materials
8. Pre-Excavation Photos & Videos (all work areas)
9. Daily Excavation Plans - scaled plan
10. Certifications - Soil Compost Specifications

32 05 23 CEMENT AND CONCRETE FOR EXTERIOR IMPROVMENTS:

1. Certificates and Data - Expansion Joint Filler
2. Certificates and Data - Sealing Compound

3. Certificates and Data - Reinforcement
4. Certificates and Data - Curing Materials
5. Certificates and Data - Protective Coating
6. Data and Test - Subbase Material(s)

32 12 16 ASPHALT PAVING

1. Data and Test Repots - Aggregate Subbase Course
2. Data and Test Repots - Asphalt Binder Course
3. Data and Test Repots - Asphalt Wearing Course
4. Job-Mix Formulas
5. Certification - Asphalt Prime Coat
6. Certification - Asphalt Tack Coat
7. Certification - Asphalt Cement
8. Certification - Job Mix Certifications
9. MSDS For All Chemicals

32 90 00 PLANTING:

1. Sample - Organic Mulch
2. Sample- Pre-Emergent Herbicide
3. Certification of Compliance - Fertilizers
4. Certification of Compliance - Lime
5. Certification of Compliance - Seed
6. Certification of Compliance - Asphalt Adhesive
7. Literature & Data - Erosion Control Mats
8. Literature & Data - Hydro mulch
9. Literature & Data - Pre-Emergent Herbicide

33 40 00 STORM DRAINAGE UTILITIES:

1. Literature & Data - Piping
2. Literature & Data - Joint material
3. Literature & Data - Manholes
4. Literature & Data - Frames & Covers
5. Literature & Data - Frames & Grates
6. Literature & Data - Steps
7. Literature & Data - Catch Basins
8. Shop Drawing - Precast Manholes
9. Shop Drawing - Precast Catch Basins