

Diary Number: _____

Inspector Name: _____

TRACS Number: _____

Date: _____

Division V: Drainage Facilities
Title: Cast-In-Place Pipe

Pipe Run Number
Route
Start Station
Class
Offset
Diameter

Attribute Numbers	Compliance	Narratives	References
0.		All stakeholders have participated in the pre-activity meeting (can be combined with other pre-activity).	Construction Manual 108.04
1.		Approved work in confined spaces complies with OSHA and the contractor's approved SAFETY PLAN.	Standard Specifications 107.08
2.		The Contractors Quality Control Administrator is using the Daily Observation Report.	Standard Specifications 501-3.07 (A)
3.		There is an approved Trenching Plan for excavations of 5 foot or greater.	Standard Specifications 107.08 Standard Specifications 501-1
4.		There is an approved mix design: Concrete is a minimum of 3000 psi, Class S. If Concrete is not Class S, it is per plan / Special Provision. Maximum aggregate is 1" or less for pipes 48" or less, or 1-1/2" for pipes greater than 48".	Standard Specifications 501-2.02
5.		All equipment is approved by the Engineer.	Standard Specifications 501-3.07 (A)
6.		Trenching conforms to the approved trenching plan for excavations 5 foot deep or greater.	Standard Specifications 107.08 Standard Specifications 501-1
7.		The Contractor's Competent Person (Safety Supervisor) has inspected all open trenches before work is started or resumed.	Standard Specifications 107.08
8.		Laser guided alignment instruments were used to control the grade and alignment of the trench.	Standard Specifications 501-3.07 (B)

9.		Open 4' or deeper excavations with slopes steeper than 1:2 left unattended are protected with 72-inch temporary chain link fencing, or approved equal, satisfactory to the Engineer. It is secured after normal working hours.	Standard Specifications 501-3.07 (B)
10.		The bottom of the trench has been shaped in accordance with the details shown on the project plans and prepared to provide full, firm and uniform support over the bottom 210 degrees of the pipe to be constructed.	Standard Specifications 501-3.07 (B)
11.		The length of open trench does not exceed 1600 feet unless approved by the Engineer.	Standard Specifications 501-3.07 (B)
12.		Soft, spongy, or unsuitable material in the bottom of the trench is removed as directed by the engineer.	Standard Specifications 501-3.07 (B)
13.		Boulders, bedrock, or rock ledges are removed at least 6 inches from the pipe surface. The space is backfilled, compacted, and reshaped.	Standard Specifications 501-3.07 (B)
14.		Where unsuitable material is removed, the area is backfilled with material complying with Standard Specifications 501-3.04(A)(1), and compacted to 95% of maximum density.	Standard Specifications 501-3.04 (A)(1) Standard Specifications 501-3.07 (B)
15.		Departure from and return to specified alignment for the trench shall not exceed two inches per linear feet, with a total departure not to exceed four inches.	Standard Specifications 501-3.04 (C)
16.		At the time of concrete placement, all surfaces in the trench which will be in contact with the pipe shall be thoroughly moistened so that moisture will not be drawn from the freshly placed concrete.	Standard Specifications 501-3.04 (C)
17.		Laser guided alignment instruments were used to control the grade and alignment of the pipe.	Standard Specifications 501-3.04 (C)
18.		4000 psi or less concrete is sampled for each 100 cubic yards or fraction thereof on a daily basis from each batch plant: Sampling daily placement of 50 cubic yards or less is taken at the discretion of the Engineer.	Standard Specifications 1006-7.02 Standard Specifications 1006-7.03 (A)
19.		4000 psi or greater concrete is sampled for each 50 cubic yards or fraction thereof on a daily basis from each batch plant: Sampling daily placement of 10 cubic yards or less is taken at the discretion of the Engineer.	Standard Specifications 1006-7.02 Standard Specifications 1006-7.03 (A)
20.		For Class S or Class B concrete placed at elevations of 3,000 feet or above, air content testing was performed for each 50 cubic yards placed, regardless of the compressive strength requirement. Sampling may be less, at the discretion of the Engineer.	Standard Specifications 1006-7.03 (A)
21.		Pipe was checked for wall thickness at invert and crown on 25 foot intervals during placement, results are recorded on the daily observation form.	Standard Specifications 501-3.07 (H)
22.		The interior surface and exterior top surface of the pipe shall be as smooth as a wood-float finish and shall be essentially free of fractures, cracks and roughness.	Standard Specifications 501-3.07 (D)
23.		Construction joints are placed when operations were likely to stop long enough for initial set of the concrete.	Standard Specifications 501-3.07 (C)

24.		Construction joints were made by leaving the end rough with a slope of approximately 45 degrees and inserting 24-inch No. 4 dowels one foot into the center of the pipe wall at approximately 18-inch intervals. Collars may be used instead of dowels.	Standard Specifications 501-3.07 (C)
25.		Concrete curing started within 15 minutes after the pipe was cast. Pipe was cured with a white opaque or clear polyethylene .0015 inch film when ambient temperature was greater than 100 degrees Fahrenheit.	Standard Specifications 501-3.07 (E)
26.		Concrete Curing: If the temperature is 100 degrees or less, the contractor may spray the pipe with a liquid membrane. Such procedure shall be completed within 30 minutes.	Standard Specifications 501-3.07 (E)
27.		Construction joints are cleaned of all laitance, loose or defective concrete, coatings, and other deleterious materials, and thoroughly wetted immediately before resuming concrete placement.	Standard Specifications 501-3.07 (C)
28.		Openings in the pipeline have been covered and sealed; the inside of the pipe is kept in a humid condition during the seven day curing period.	Standard Specifications 501-3.07 (E)
29.		Rock pockets, voids, form indentations and excessive form lap are repaired within 24 hours of form removal.	Standard Specifications 501-3.07 (C)
30.		Cracks were repaired or rejected within 24 hours after the removal of forms.	Standard Specifications 501-3.07 (G)
31.		Drilled holes or cores for sampling thickness are filled with concrete in a manner satisfactory to the Engineer.	Standard Specifications 501-3.07 (H)
32.		Backfilling did not occur until the concrete had developed a compressive strength of at least 2,500 psi.	Standard Specifications 501-3.07 (F)
33.		Backfill material for pipe and trench conforms to Standard Specifications 501-3.04 (A)(1) and 501-3.04 (A)(2).	Standard Specifications 501-3.04 (A)(1) Standard Specifications 501-3.04 (A)(2) Standard Specifications 501-3.07 (F)
34.		Backfill dimensional requirements conform to Construction Standard Drawing C-13.15.	Construction Standard Drawing C-13.15
35.		Backfill materials were placed in layers not greater than 8 inches prior to compaction.	Standard Specifications 501-3.07 (F) Standard Specifications 501-3.04 (B)(1)
36.		Compaction of backfill is a minimum of 95%.	Standard Specification 501-3.04 (C) Standard Specifications 501-3.07 (F)
37.		The interior of the pipe is free of dirt and debris at final acceptance.	Standard Specifications 501-3.03 (A)
38.		Quantlist Minimum Frequency is being followed, one per week.	Construction Bulletin 07-01