

Earth Engineering Consultants

Report of Cast-in-Place Concrete Tests

Project: Boardwalk & Lemay
Miramont 2nd

Project No: 1934010

GENERAL INFORMATION

Placement Date: 08-12-94	Test Set No: 7
Placement Location: Culvert Wing Wall	
Concrete Supplier: Western Mobile	Truck No: 44
Water Added On-Site: 0 Gal H ₂ O Added, 13 in last half	
Notes:	

FIELD TEST RESULTS

Slump (Inches)	3.0"
Concrete Temperature (°F)	80°
Air Content (%)	4.0%
Air Temperature at Placement (°F)	85°

LABORATORY CYLINDER TEST RESULTS

Cylinder No	Date Tested	Age (days)	Maximum Applied Load (pounds)	Type Failure	Compressive Strength (psi)
7A1	08-19-94	7	113,000	Conical	4000
7A2	08-19-94	7	110,000	Conical	3890
7C1	09-09-94	28			
7C2	09-09-94	28			
Specified Compressive Strength (at 28 days): 3500					

Reports to: Miramont Associates - Gary Nordic
Land Development Services-Dennis Donovan
City of Fort Collins-Todd Juergens

Earth Engineering Consultants

Report of Cast-in-Place Concrete Tests

Project: Boardwalk & Lemay
Miramont 2nd

Project No: 1934010

GENERAL INFORMATION

Placement Date: 08-11-94	Test Set No: 6
Placement Location: Culvert Base	
Concrete Supplier: Western Mobile	Truck No: 28
Water Added On-Site: 0 Gal H ₂ O Added	
Notes:	

FIELD TEST RESULTS

Slump (Inches)	3.5"
Concrete Temperature (°F)	80°
Air Content (%)	4.75%
Air Temperature at Placement (°F)	78°

LABORATORY CYLINDER TEST RESULTS

Cylinder No	Date Tested	Age (days)	Maximum Applied Load (pounds)	Type Failure	Compressive Strength (psi)
6A1	08-18-94	7	112,000	Conical	3960
6A2	08-18-94	7	103,000	Conical	3640
6C1	09-08-94	28			
6C2	09-08-94	28			
Specified Compressive Strength (at 28 days): 3500					

Reports to: Miramont Associates - Gary Nordic
Land Development Services-Dennis Donovan
City of Fort Collins-Todd Juergens

Earth Engineering Consultants

Report of Cast-in-Place Concrete Tests

Project: Miramont - Phase II Project No: 1934025

GENERAL INFORMATION

Placement Date: 5-12-94	Test Set No: 9
Placement Location: N. Wingwalls on culvert on Boardwalk	
Concrete Supplier: Western Mobile	Truck No: 60
Water Added On-Site: 0 Gal. H ₂ O	
Notes:	

FIELD TEST RESULTS

Slump (Inches)	1 1/2"
Concrete Temperature (°F)	73°F
Air Content (%)	5.0%
Air Temperature at Placement (°F)	75°F

LABORATORY CYLINDER TEST RESULTS

Cylinder No	Date Tested	Age (days)	Maximum Applied Load (pounds)	Type Failure	Compressive Strength (psi)
9A1	5-19-94	7	105,500	CONICAL	3730
9C1	6-09-94	28	137,500	CONICAL	4870
9C2	6-09-94	28	135,500	CONICAL	4800
9H	6-09-94	HOLD	0	0	0
Specified Compressive Strength (at 28 days): 3500 psi					

Reports to:

Miramont Associates
Land Development Services, Inc.
City of Ft. Collins, Todd Juergens

Earth Engineering Consultants**Report of Cast-in-Place Concrete Tests**Project: Miramont - Phase II Project No: 1934025**GENERAL INFORMATION**

Placement Date: 5-12-94	Test Set No: 9
Placement Location: N. Wingwalls on culvert on Boardwalk	
Concrete Supplier: Western Mobile	Truck No: 60
Water Added On-Site: 0 Gal. H ₂ O	
Notes:	

FIELD TEST RESULTS

Slump (Inches)	1 1/2"
Concrete Temperature (°F)	73°F
Air Content (%)	5.0%
Air Temperature at Placement (°F)	75°F

LABORATORY CYLINDER TEST RESULTS

Cylinder No	Date Tested	Age (days)	Maximum Applied Load (pounds)	Type Failure	Compressive Strength (psi)
9A1	5-19-94	7	105,500	CONICAL	3730
9C1	6-09-94	28			
9C2	6-09-94	28			
9H		HOLD			
Specified Compressive Strength (at 28 days): 3500 psi					

Reports to:

Miramont Associates
Land Development Services, Inc.
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Earth Engineering Consultants

Report of Cast-in-Place Concrete Tests

Project: Miramont - Phase II Project No: 1934025

GENERAL INFORMATION

Placement Date: 5-11-94	Test Set No: 8
Placement Location: Wingwall footings on culvert on Boardwalk	
Concrete Supplier: Western Mobile	Truck No: 28
Water Added On-Site: 0 Gal. H ₂ O	
Notes:	

FIELD TEST RESULTS

Slump (Inches)	1 1/4"
Concrete Temperature (°F)	70°F
Air Content (%)	4.9%
Air Temperature at Placement (°F)	65°F

LABORATORY CYLINDER TEST RESULTS

Cylinder No	Date Tested	Age (days)	Maximum Applied Load (pounds)	Type Failure	Compressive Strength (psi)
8A1	5-18-94	7	108,000	CONICAL	3820
8C1	6-08-94	28	143,500	CONICAL	5080
8C2	6-08-94	28	145,500	CONICAL	5150
8H		HOLD	0	0	0
Specified Compressive Strength (at 28 days): 3500 psi					

Reports to:

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Land Development Services, Inc.
City of Ft. Collins, Todd Juergens

Earth Engineering Consultants**Report of Cast-in-Place Concrete Tests**Project: Miramont - Phase II Project No: 1934025**GENERAL INFORMATION**

Placement Date: 5-11-94	Test Set No: 8
Placement Location: Wingwall footings on culvert on Boardwalk	
Concrete Supplier: Western Mobile	Truck No: 28
Water Added On-site: 0 Gal. H ₂ O	
Notes:	

FIELD TEST RESULTS

Slump (Inches)	1 1/4"
Concrete Temperature (°F)	70°F
Air Content (%)	4.9%
Air Temperature at Placement (°F)	65°F

LABORATORY CYLINDER TEST RESULTS

Cylinder No	Date Tested	Age (days)	Maximum Applied Load (pounds)	Type Failure	Compressive Strength (psi)
8A1	5-18-94	7	108,000	CONICAL	3820
8C1	6-08-94	28			
8C2	6-08-94	28			
8H		HOLD			
Specified Compressive Strength (at 28 days): 3500 psi					

Reports to:

Miramont Associates
 Land Development Services, Inc.
 City of Ft. Collins, Todd Juergens

Earth Engineering Consultants

Report of Cast-in-Place Concrete Tests

Project: Castleridge

Project No: 1934037

GENERAL INFORMATION

Placement Date: 3-30-94	Test Set No: 13
Placement Location: Sidewalk Boardwalk & High Castle Drive	
Concrete Supplier: Bestway	Truck No: 35
Water Added On-Site: 0 Gal. H ₂ O added on-site	
Notes:	

FIELD TEST RESULTS

Slump (Inches)	5"
Concrete Temperature (°F)	69°F
Air Content (%)	11%
Air Temperature at Placement (°F)	63°F

LABORATORY CYLINDER TEST RESULTS

Cylinder No	Date Tested	Age (days)	Maximum Applied Load (pounds)	Type Failure	Compressive Strength (psi)
13A1	4/06/94	7	50,000	CONICAL	1770
13B1	4/13/94	14	65,000	CONICAL	2300
13C1	4/27/94	28	76,500	CONICAL	2710
13C2	5/14/94	45	84,000	CONICAL	2970
Specified Compressive Strength (at 28 days): 3500 PSI					

Reports to:

Miramont Associates
Land Development Services, Inc.
City of Ft. Collins, Todd Juergens

Earth Engineering Consultants

Report of Cast-in-Place Concrete Tests

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Project: MIRAMONT PHASE II Project No: 1934025

GENERAL INFORMATION

Placement Date: 10-04-93	Test Set No: 8
Placement Location: Curb & Gutter Highcastle	
Concrete Supplier: Western Mobile	Truck No: 7606N
Water Added On-Site: None	
Notes:	

FIELD TEST RESULTS

Slump (Inches)	2 1/2"
Concrete Temperature (°F)	70°
Air Content (%)	5%
Unit Weight (pcf)	--
Air Temperature at Placement (°F)	80°

LABORATORY CYLINDER TEST RESULTS

Cylinder No	Date Tested	Age (days)	Maximum Applied Load (pounds)	Type Failure	Compressive Strength (psi)
8A1	10-11-93	7	73,000	CONICAL	2580
8C1	11-01-93	28	105,000	CONICAL	3720
8C2	11-01-93	28	107,500	CONICAL	3800
8H	11-01-93	HOLD	--	--	--
Specified Compressive Strength (at 28 days):					3000 PSI

Reports to:

Report of Cast-in-Place Concrete Tests

Project: MIRAMONT PHASE II Project No: 1934025

GENERAL INFORMATION

Placement Date: 10-01-93	Test Set No: 6
Placement Location: Curb & Gutter Sawgrass West Side	
Concrete Supplier: Bestway	Truck No: 34
Water Added On-Site: None	
Notes:	

FIELD TEST RESULTS

Slump (Inches)	1.5"
Concrete Temperature (°F)	70°
Air Content (%)	5%
Unit Weight (pcf)	--
Air Temperature at Placement (°F)	60°

LABORATORY CYLINDER TEST RESULTS

Cylinder No	Date Tested	Age (days)	Maximum Applied Load (pounds)	Type Failure	Compressive Strength (psi)
6A1	10-08-93	7	83,000	CONICAL	2940
6C1	10-29-93	28	115,500	CONICAL	4090
6C2	10-29-93	28	115,000	CONICAL	4070
6H	10-29-93	HOLD	--	--	--
Specified Compressive Strength (at 28 days):					3000 PSI

Reports to: Miramont
Land Development
City of Ft. Collins

Earth Engineering Consultants

Report of Cast-in-Place Concrete Tests

Project: MIRAMONT PHASE II Project No: 1934025

GENERAL INFORMATION

Placement Date: 10-01-93	Test Set No: 7
Placement Location: Curb & Gutter Sawgrass East Side	
Concrete Supplier: Bestway	Truck No: 30
Water Added On-Site: None	
Notes:	

FIELD TEST RESULTS

Slump (Inches)	2"
Concrete Temperature (°F)	68°
Air Content (%)	5.5%
Unit Weight (pcf)	--
Air Temperature at Placement (°F)	65°

LABORATORY CYLINDER TEST RESULTS

Cylinder No	Date Tested	Age (days)	Maximum Applied Load (pounds)	Type Failure	Compressive Strength (psi)
7A1	10-08-93	7	77,500	CONICAL	2740
7C1	10-29-93	28	109,000	CONICAL	3860
7C2	10-29-93	28	110,500	CONICAL	3910
7H	10-29-93	HOLD	--	--	--
Specified Compressive Strength (at 28 days):					3000 PSI

Reports to: Miramont
Land Development
City of Fort Collins

Earth Engineering Consultants**Report of Cast-in-Place Concrete Tests**Project: MIRAMONT PHASE IIProject No: 1934025**GENERAL INFORMATION**

Placement Date: 09-29-93	Test Set No: 5
Placement Location: Box Culvert Corner of Boardwalk and Highcastle	
Concrete Supplier: Western Mobile	Truck No:
Water Added On-Site: None	
Notes:	

FIELD TEST RESULTS

Slump (Inches)	4"
Concrete Temperature (°F)	70°
Air Content (%)	4%
Unit Weight (pcf)	--
Air Temperature at Placement (°F)	65°

LABORATORY CYLINDER TEST RESULTS

Cylinder No	Date Tested	Age (days)	Maximum Applied Load (pounds)	Type Failure	Compressive Strength (psi)
5A1	10-06-93	7	85,000	CONICAL	3010
5C1	10-27-93	28	115,000	CONICAL	4070
5C2	10-27-93	28	116,500	CONICAL	4120
5H	10-27-93	HOLD	---	---	---
Specified Compressive Strength (at 28 days):			3500 PSI		

Reports to: Miramont
Land Development
City of Fort Collins

Earth Engineering Consultants**Report of Cast-in-Place Concrete Tests**

Project: MIRAMONT PHASE II Project No: 1934025
Fort Collins, Colorado

GENERAL INFORMATION

Placement Date: 09-25-93	Test Set No: 4
Placement Location: Culvert Along Boardwalk	
Concrete Supplier: Western Mobile	Truck No: 7641N
Water Added On-Site: None	
Notes:	

FIELD TEST RESULTS

Slump (Inches)	2"
Concrete Temperature (°F)	68°
Air Content (%)	4%
Unit Weight (pcf)	--
Air Temperature at Placement (°F)	70°

LABORATORY CYLINDER TEST RESULTS

Cylinder No	Date Tested	Age (days)	Maximum Applied Load (pounds)	Type Failure	Compressive Strength (psi)
4A1	10-02-93	7	88,500	CONICAL	3130
4C1	10-23-93	28	110,500	CONICAL	3910
4C2	10-23-93	28	114,000	CONICAL	4030
4H	10-23-93	HOLD	---	---	---
Specified Compressive Strength (at 28 days): 3500 PSI					

Reports to: Miramont-Gary Nordick
Land Development-Dennis Donovan
City of Fort Collins-Todd Juergens

Earth Engineering Consultants**Report of Cast-in-Place Concrete Tests**Project: MIRAMONT PHASE IIProject No: 1934025**GENERAL INFORMATION**

Placement Date: 09-23-93	Test Set No: 3
Placement Location: Culvert	
Concrete Supplier: Bestway	Truck No:
Water Added On-Site: None	
Notes:	

FIELD TEST RESULTS

Slump (Inches)	2 3/4"
Concrete Temperature (°F)	70°
Air Content (%)	4.5%
Unit Weight (pcf)	--
Air Temperature at Placement (°F)	65°

LABORATORY CYLINDER TEST RESULTS

Cylinder No	Date Tested	Age (days)	Maximum Applied Load (pounds)	Type Failure	Compressive Strength (psi)
3A1	9-30-93	7	86,500	CONICAL	3060
3C1	10-21-93	28	113,500	CONICAL	4015
3C2	10-21-93	28	117,500	CONICAL	4156
3H	10-21-93	HOLD	---	--	--
Specified Compressive Strength (at 28 days): 3500 PSI					

Reports to: 1) Miramont
 2) Land Development
 3) City of Fort Collins