



EMPIRE LABORATORIES, INC.

Materials and Foundation Engineers
Fort Collins, Colorado
Greeley, Colorado
Longmont, Colorado
Colorado Springs, Colorado
Cheyenne, Wyoming

RECEIVED
OCT 21 1991

Engineering Dept.

CONCRETE TEST RESULTS

Tests checked below have been performed by Empire Laboratories, Inc., in accordance with ASTM procedures

SAMPLING
C172

MAKING & CURING TEST SPECIMENS
Field C31
Laboratory C192

CAPPING
C617

COMPRESSIVE STRENGTH
C39

NAME OF PROJECT Southridge Greens - Center Greens

CONTRACTOR Kiefer Concrete

ENGINEER OR ARCHITECT Albrecht Homes MIX NO. _____

LOCATION OF PLACEMENT Cross Pan Glen Eagle Ct. & Center Greens Blvd. N/End Crosspan

EMPIRE JOB NO. 2730 REPORT NO. 6

FINE 1371 Lbs. MEDIUM 1728 Lbs. COARSE AGG. _____ Lbs. CEMENT 564 Lbs. FLY ASH _____ Lbs. WATER 30 Gals.

REQUIRED STRENGTH 3500 SLUMP 3 In. AIR 4.8 % UNIT WEIGHT 144.2 #/ft.³ YIELD 27.13 Ft.³/Yd.³

TEMP. (CONCRETE) 68 °F (AMBIENT) 49 °F WRA _____ AIR ENTRAINMENT 0.60 oz/sack

TRUCK NO. 27 TIME 8:30 CUBIC YARDS 8 CALCIUM CHLORIDE _____ ACCELERATOR _____

CYLINDER NO.	DATE MADE	DATE BROKEN	BREAK DAYS	BREAK POUNDS	BREAK PSI	AVG. DIA. IN	CROSS SECTIONAL AREA IN ²	LENGTH IN	TYPE OF FRACTURE	Cure	
										Lab	Day/Field
1	9/18/91	9/25/91	7	105,500	3730	6.0	28.3	12.0	conical	7	
2	9/18/91	9/25/91	7	104,000	3680	6.0	28.3	12.0	conical	7	
3	9/18/91	10/16/91	28	132,000	4670	6.0	28.3	12.0	conical	28	
4	9/18/91	10/16/91	28	133,500	4720	6.0	28.3	12.0	conical	28	

CAST BY: Empire Labs BROKEN BY: 3 day _____ 7 day PM 14 day _____ 28 day LEM 45 day _____ CONCRETE SUPPLIER: Poudre Pre-Mix

DISTRIBUTION: Albrecht Homes (1); Kiefer (1); PPM (1); City FC Engineering (1)



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Engineering Dept. CONCRETE TEST RESULTS

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SAMPLING
C172

MAKING & CURING TEST SPECIMENS
Field C31

CAPPING
C617

COMPRESSIVE STRENGTH
C39

NAME OF PROJECT Southridge Greens - Center Greens

CONTRACTOR Kiefer Concrete

ENGINEER OR ARCHITECT Albrecht Homes MIX NO. _____

LOCATION OF PLACEMENT Cross Pan Glen Eagle Ct. & Center Greens Blvd. N/End Crosspan

EMPIRE JOB NO. 2730 REPORT NO. 6

FINE 1371 Lbs. MEDIUM 1728 Lbs. COARSE AGG. _____ Lbs. CEMENT 564 Lbs. FLY ASH _____ Lbs. WATER 30 Gals.

REQUIRED STRENGTH 3500 SLUMP 3 in. AIR 4.8 % UNIT WEIGHT 144.2 #/ft³ YIELD 27.13 ft³/Yd³

TEMP. (CONCRETE) 68 °F (AMBIENT) 49 °F WRA _____ AIR ENTRAINMENT 0.60 oz/sack

TRUCK NO. 27 TIME 8:30 CUBIC YARDS 8 CALCIUM CHLORIDE _____ ACCELERATOR _____

CYLINDER NO.	DATE MADE	DATE BROKEN	BREAK DAYS	BREAK POUNDS	BREAK PSI	AVG. DIA IN	CROSS SECTIONAL AREA IN	LENGTH IN	TYPE OF FRACTURE	Cure	
										Lab	Day/Field
1	9/18/91	9/25/91	7	105,500	3730	6.0	28.3	12.0	conical	7	
2	9/18/91	9/25/91	7	104,000	3680	6.0	28.3	12.0	conical	7	
3	9/18/91	10/16/91	28								
4	9/18/91	10/16/91	28								

CAST BY: Empire Labs BROKEN BY: 3 day _____ 7 day PM 14 day _____ 28 day _____ 45 day _____ CONCRETE SUPPLIER: Poudre Pre-Mix

DISTRIBUTION: Albrecht Homes (1); Kiefer (1); PPM (1); City FC Engineering (1)



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MAKING & CURING TEST SPECIMENS

Field C31

Laboratory C192

CAPPING

C617

COMPRESSIVE STRENGTH

C39

NAME OF PROJECT Center Greens - Southridge Greens

CONTRACTOR Kiefer Concrete

ENGINEER OR ARCHITECT Albrecht Homes MIX NO. _____

LOCATION OF PLACEMENT Roll Curb St# 0+00 W. Side Southridge Greens

EMPIRE JOB NO. 2730 REPORT NO. 5

FINE 1371 Lbs. MEDIUM 1728 Lbs. COARSE AGG. _____ Lbs. CEMENT 564 Lbs. FLY ASH _____ Lbs. WATER 28 Gals.

REQUIRED STRENGTH 3500 SLUMP 3 In. AIR 5.1 % UNIT WEIGHT 142.8 #/ft.³ YIELD 27.28 ft.³/Yd.³

TEMP. (CONCRETE) 78 °F (AMBIENT) 77 °F WRA _____ AIR ENTRAINMENT 0.38 oz/sack

TRUCK NO. 26 TIME 9:00 CUBIC YARDS 8 CALCIUM CHLORIDE _____ ACCELERATOR _____

CYLINDER NO.	DATE MADE	DATE BROKEN	BREAK DAYS	BREAK POUNDS	BREAK PSI	AVG. DIA. IN	CROSS SECTIONAL AREA IN	LENGTH IN	TYPE OF FRACTURE	Cure	
										Lab	Day/Field
1	7/17/91	7/24/91	7	105,000	3710	6.0	28.3	12.0	conical	7	
2	7/17/91	7/24/91	7	104,000	3680	6.0	28.3	12.0	conical	7	
3	7/17/91	8/14/91	28	132,500	4690	6.0	28.3	12.0	conical	28	
4	7/17/91	8/14/91	28	134,000	4740	6.0	28.3	12.0	conical	28	

CAST BY: Empire Laboratories BROKEN BY: 3 day _____ 7 day PM 14 day _____ 28 day LEM 45 day _____ CONCRETE SUPPLIER: Poudre Pre-Mix

DISTRIBUTION: Albrecht Homes (1); Kiefer Concrete (1); Poudre Pre-Mix (1); City Ft. Collins Engineering (1)



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MAKING & CURING TEST SPECIMENS
Field C31
Laboratory C192

CAPPING
C617

COMPRESSIVE STRENGTH
C39

NAME OF PROJECT Center Greens - Southridge Greens

CONTRACTOR Kiefer Concrete

ENGINEER OR ARCHITECT Albrecht Homes MIX NO. _____

LOCATION OF PLACEMENT Curb & Gutter: Egale Ct, Northern Side, 45' E. of Pebble Beach Ct.

EMPIRE JOB NO. 2730 REPORT NO. 1

FINE 1371 Lbs. MEDIUM 1728 Lbs. COARSE AGG. _____ Lbs. CEMENT 564 Lbs. FLY ASH _____ Lbs. WATER 28.13 Gals.

REQUIRED STRENGTH 3500 SLUMP 3 in. AIR 4.4 % UNIT WEIGHT 144.1 #/ft.³ YIELD 27.0 Ft.³/Yd.³

TEMP. (CONCRETE) 81 °F (AMBIENT) 75 °F WRA _____ AIR ENTRAINMENT 0.29 oz/sack

TRUCK NO. 21 TIME 1:30 CUBIC YARDS 8 CALCIUM CHLORIDE _____ ACCELERATOR _____

CYLINDER NO.	DATE MADE	DATE BROKEN	BREAK DAYS	BREAK POUNDS	BREAK PSI	AVG. DIA. IN	CROSS SECTIONAL AREA IN	LENGTH IN	TYPE OF FRACTURE	Cure	
										Lab	Day/Field
1	7/ 8/91	7/15/91	7	97,000	3430	6.0	28.3	12.0	conical	7	
2	7/ 8/91	7/15/91	7	97,000	3430	6.0	28.3	12.0	conical	7	
3	7/ 8/91	8/ 5/91	28	123,000	4350	6.0	28.3	12.0	conical	28	
4	7/ 8/91	8/ 5/91	28	121,000	4300	6.0	28.3	12.0	conical	28	

CAST BY: Empire Laboratories BROKEN BY: 3 day _____ 7 day J 14 day _____ 28 day PM 45 day _____ CONCRETE SUPPLIER: Poudre Pre-Mix

DISTRIBUTION: Albrecht Homes (1); Kiefer Concrete (1); Poudre Pre-Mix (1); City Ft. Collins Engineering (1)



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SAMPLING
C172

MAKING & CURING TEST SPECIMENS
Field C31

CAPPING
C617

COMPRESSIVE STRENGTH
C39

NAME OF PROJECT Center Greens - Southridge Greens

CONTRACTOR Kiefer Concrete

ENGINEER OR ARCHITECT Albrecht Homes MIX NO. _____

LOCATION OF PLACEMENT Curb & Gutter: Hiwan Ct, Southern Side, 340' W. of Eagle Ct.

EMPIRE JOB NO. 2730 REPORT NO. 2

FINE 1371 Lbs. MEDIUM 1728 Lbs. COARSE AGG. _____ Lbs. CEMENT 564 Lbs. FLY ASH _____ Lbs. WATER 28.13 Gals.

REQUIRED STRENGTH 3500 SLUMP 2.5 in. AIR 4.6 % UNIT WEIGHT 143.2 #/ft.³ YIELD 27.2 Ft.³/Yd.³

TEMP. (CONCRETE) 84 °F (AMBIENT) 79 °F WRA _____ AIR ENTRAINMENT 0.29 oz/sack

TRUCK NO. 31 TIME 4:10 CUBIC YARDS 8 CALCIUM CHLORIDE _____ ACCELERATOR _____

CYLINDER NO.	DATE MADE	DATE BROKEN	BREAK DAYS	BREAK POUNDS	BREAK PSI	AVG. DIA. IN	CROSS SECTIONAL AREA IN	LENGTH IN	TYPE OF FRACTURE	Cure	
										Lab	Day/Field
1	7/ 8/91	7/15/91	7	91,000	3220	6.0	28.3	12.0	conical	7	
2	7/ 8/91	7/15/91	7	96,000	3400	6.0	28.3	12.0	conical	7	
3	7/ 8/91	8/ 5/91	28	123,000	4350	6.0	28.3	12.0	conical	28	
4	7/ 8/91	8/ 5/91	28	123,500	4370	6.0	28.3	12.0	conical	28	

CAST BY: Empire Laboratories BROKEN BY: 3 day _____ 7 day J 14 day _____ 28 day PM 45 day _____ CONCRETE SUPPLIER: Poudre Pre-Mix

DISTRIBUTION: Albrecht Homes (1); Kiefer Concrete (1); Poudre Pre-Mix (1); Ft. Collins Engineering Dept. (1)



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MAKING & CURING TEST SPECIMENS
Field C31

CAPPING
C617

COMPRESSIVE STRENGTH
C39



NAME OF PROJECT Center Greens - Southridge Greens

CONTRACTOR Kiefer Concrete

ENGINEER OR ARCHITECT Albrecht Homes MIX NO. _____

LOCATION OF PLACEMENT Curb & Gutter: Hiwan Ct, North Side, 290' W. of Eagle Ct.

EMPIRE JOB NO. 2730 REPORT NO. 3

FINE 1371 Lbs. MEDIUM 1728 Lbs. COARSE AGG. _____ Lbs. CEMENT 564 Lbs. FLY ASH _____ Lbs. WATER 28.13 Gals.

REQUIRED STRENGTH 3500 SLUMP 2.5 in. AIR 4.9 % UNIT WEIGHT 143.3 #/ft.³ YIELD 27.2 ft.³/yd.³

TEMP. (CONCRETE) 77 °F (AMBIENT) 81 °F WRA _____ AIR ENTRAINMENT 0.29 oz/sack

TRUCK NO. 26 TIME 9:00 CUBIC YARDS 8 CALCIUM CHLORIDE _____ ACCELERATOR _____

CYLINDER NO.	DATE MADE	DATE BROKEN	BREAK DAYS	BREAK POUNDS	BREAK PSI	AVG. DIA. IN	CROSS SECTIONAL AREA IN ²	LENGTH IN	TYPE OF FRACTURE	Cure	
										Lab	Day/Field
1	7/ 9/91	7/16/91	7	86,000	3040	6.0	28.3	12.0	conical	7	
2	7/ 9/91	7/16/91	7	90,000	3180	6.0	28.3	12.0	conical	7	
3	7/ 9/91	8/ 6/91	28	117,000	4140	6.0	28.3	12.0	conical	28	
4	7/ 9/91	8/ 6/91	28	118,500	4190	6.0	28.3	12.0	conical	28	

CAST BY: Empire Laboratories BROKEN BY: 3 day _____ 7 day J 14 day _____ 28 day PM 45 day _____ CONCRETE SUPPLIER: Poudre Pre-Mix

DISTRIBUTION: Albrecht Homes (1); Kiefer Concrete (1); Poudre Pre-Mix (1); City Ft. Collins Engineering (1)



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SAMPLING

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MAKING & CURING TEST SPECIMENS

Field C31

Laboratory C192

CAPPING

C617

COMPRESSIVE STRENGTH

C39

NAME OF PROJECT Center Greens - Southridge Greens

CONTRACTOR Kiefer Concrete

ENGINEER OR ARCHITECT Albrecht Homes MIX NO. _____

LOCATION OF PLACEMENT Curb & Gutter - Eagle Ct, South Side, 20' E. of Pebble Beach Ct.

EMPIRE JOB NO. 2730 REPORT NO. 4

FINE 1371 Lbs. MEDIUM 1728 Lbs. COARSE AGG. _____ Lbs. CEMENT 564 Lbs. FLY ASH _____ Lbs. WATER 28.13 Gals.

REQUIRED STRENGTH 3500 SLUMP 3 In. AIR 5.1 % UNIT WEIGHT 143.6 #/ft.³ YIELD 27.1 Ft.³/Yd.³

TEMP. (CONCRETE) 79 °F (AMBIENT) 81 °F WRA _____ AIR ENTRAINMENT 0.29 oz/sack

TRUCK NO. 26 TIME 2:00 CUBIC YARDS 8 CALCIUM CHLORIDE _____ ACCELERATOR _____

CYLINDER NO.	DATE MADE	DATE BROKEN	BREAK DAYS	BREAK POUNDS	BREAK PSI	AVG. DIA IN	CROSS SECTIONAL AREA IN	LENGTH IN	TYPE OF FRACTURE	Cure	
										Lab	Day/Field
1	7/ 9/91	7/16/91	7	91,500	3240	6.0	28.3	12.0	conical	7	
2	7/ 9/91	7/16/91	7	89,500	3170	6.0	28.3	12.0	conical	7	
3	7/ 9/91	8/ 6/91	28	125,000	4420	6.0	28.3	12.0	conical	28	
4	7/ 9/91	8/ 6/91	28	123,000	4350	6.0	28.3	12.0	conical	28	

CAST BY: Empire Laboratories BROKEN BY: 3 day _____ 7 day DJ 14 day _____ 28 day PM 45 day _____ CONCRETE SUPPLIER: Poudre Pre-Mix

DISTRIBUTION: Albrecht Homes (1); Kiefer Concrete (1); Poudre Pre-Mix (1); City Ft. Collins Engineering (1)



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SAMPLING
C172

MAKING & CURING TEST SPECIMENS
Field C31

CAPPING
C617

COMPRESSIVE STRENGTH
C39

NAME OF PROJECT Center Greens - Southridge Greens

CONTRACTOR Kiefer Concrete

ENGINEER OR ARCHITECT Albrecht Homes MIX NO. _____

LOCATION OF PLACEMENT Roll Curb St# 0+00 W. Side Southridge Greens

EMPIRE JOB NO. 2730 REPORT NO. 5

FINE 1371 Lbs. MEDIUM 1728 Lbs. COARSE AGG. _____ Lbs. CEMENT 564 Lbs. FLY ASH _____ Lbs. WATER 28 Gals.

REQUIRED STRENGTH 3500 SLUMP 3 in. AIR 5.1 % UNIT WEIGHT 142.8 #/ft.³ YIELD 27.28 Ft.³/Yd.³

TEMP. (CONCRETE) 78 °F (AMBIENT) 77 °F WRA _____ AIR ENTRAINMENT 0.38 oz/sack

TRUCK NO. 26 TIME 9:00 CUBIC YARDS 8 CALCIUM CHLORIDE _____ ACCELERATOR _____

CYLINDER NO.	DATE MADE	DATE BROKEN	BREAK DAYS	BREAK POUNDS	BREAK PSI	AVG. DIA. IN	CROSS SECTIONAL AREA IN ²	LENGTH IN	TYPE OF FRACTURE	Cure	
										Lab	Day/Field
1	7/17/91	7/24/91	7	105,000	3710	6.0	28.3	12.0	conical	7	
2	7/17/91	7/24/91	7	104,000	3680	6.0	28.3	12.0	conical	7	
3	7/17/91	8/14/91	28								
4	7/17/91	8/14/91	28								

CAST BY: Empire Laboratories BROKEN BY: 3 day _____ 7 day PM 14 day _____ 28 day _____ 45 day _____ CONCRETE SUPPLIER: Poudre Pre-Mix

DISTRIBUTION: Albrecht Homes (1); Kiefer Concrete (1); Poudre Pre-Mix (1); City Ft. Collins Engineering (1)



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SAMPLING
C172

MAKING & CURING TEST SPECIMENS
Field C31 Laboratory C192

CAPPING
C617

COMPRESSIVE STRENGTH
C39

NAME OF PROJECT Center Greens - Southridge Greens

CONTRACTOR Kiefer Concrete

ENGINEER OR ARCHITECT _____ MIX NO. _____

LOCATION OF PLACEMENT Curb & Gutter: Hiwan Ct, Southern Side, 340' W. of Eagle Ct.

EMPIRE JOB NO. 2730 REPORT NO. 2

FINE 1371 Lbs. MEDIUM 1728 Lbs. COARSE AGG. _____ Lbs. CEMENT 564 Lbs. FLY ASH _____ Lbs. WATER 28.13 Gals.

REQUIRED STRENGTH 3500 SLUMP 2.5 in. AIR 4.6 % UNIT WEIGHT 143.2 #/ft.³ YIELD 27.2 ft.³/yd.³

TEMP. (CONCRETE) 84 °F (AMBIENT) 79 °F WRA _____ AIR ENTRAINMENT 0.29 oz/sack

TRUCK NO. 31 TIME 4:10 CUBIC YARDS 8 CALCIUM CHLORIDE _____ ACCELERATOR _____

CYLINDER NO.	DATE MADE	DATE BROKEN	BREAK DAYS	BREAK POUNDS	BREAK PSI	AVG. DIA. IN	CROSS SECTIONAL AREA IN	LENGTH IN	TYPE OF FRACTURE	Cure	
										Lab	Day/Field
1	7/ 8/91	7/15/91	7	91,000	3220	6.0	28.3	12.0	conical	7	
2	7/ 8/91	7/15/91	7	96,000	3400	6.0	28.3	12.0	conical	7	
3	7/ 8/91	8/ 5/91	28								
4	7/ 8/91	8/ 5/91	28								

CAST BY: Empire Laboratories BROKEN BY: 3 day _____ 7 day J 14 day _____ 28 day _____ 45 day _____ CONCRETE SUPPLIER: Poudre Pre-Mix

DISTRIBUTION: Albrecht Homes (1); Kiefer Concrete (1); Poudre Pre-Mix (1); Ft. Collins Engineering Dept. (1)



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Longmont, Colorado

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SAMPLING

C172

MAKING & CURING TEST SPECIMENS

Field C31

Laboratory C192

CAPPING

C617

COMPRESSIVE STRENGTH

C39

NAME OF PROJECT Cantor Groons - Southridge Greens

CONTRACTOR Kiefer Concrete

ENGINEER OR ARCHITECT _____ MIX NO. _____

LOCATION OF PLACEMENT Curb & Gutter: Hiwan Ct, North Side, 290' W. of Eagle Ct.

EMPIRE JOB NO. 2730 REPORT NO. 3

FINE 1371 Lbs. MEDIUM 1728 Lbs. COARSE AGG. _____ Lbs. CEMENT 564 Lbs. FLY ASH _____ Lbs. WATER 28.13 Gals.

REQUIRED STRENGTH 3500 SLUMP 2.5 in. AIR 4.9 % UNIT WEIGHT 143.3 #/ft.³ YIELD 27.2 ft.³/Yd.³

TEMP. (CONCRETE) 77 °F (AMBIENT) 81 °F WRA _____ AIR ENTRAINMENT 0.29 oz/sack

TRUCK NO. 26 TIME 9:00 CUBIC YARDS 8 CALCIUM CHLORIDE _____ ACCELERATOR _____

CYLINDER NO.	DATE MADE	DATE BROKEN	BREAK DAYS	BREAK POUNDS	BREAK PSI	AVG. DIA. IN	CROSS SECTIONAL AREA IN	LENGTH IN	TYPE OF FRACTURE	Cure	
										Lab	Day/Field
1	7/ 9/91	7/16/91	7	86,000	3040	6.0	28.3	12.0	conical	7	
2	7/ 9/91	7/16/91	7	90,000	3180	6.0	28.3	12.0	conical	7	
3	7/ 9/91	8/ 6/91	28								
4	7/ 9/91	8/ 6/91	28								

CAST BY: Empire Laboratories BROKEN BY: 3 day _____ 7 day J 14 day _____ 28 day _____ 45 day _____ CONCRETE SUPPLIER: Poudre Pre-Mix

DISTRIBUTION: Albrecht Homes (1); Kiefer Concrete (1); Poudre Pre-Mix (1); City Ft. Collins Engineering (1)



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SAMPLING

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MAKING & CURING TEST SPECIMENS

Field C31

Laboratory C192

CAPPING

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COMPRESSIVE STRENGTH

C39

NAME OF PROJECT Center Greens - Southridge Greens

CONTRACTOR Kiefer Concrete

ENGINEER OR ARCHITECT _____ MIX NO. _____

LOCATION OF PLACEMENT Curb & Gutter - Eagle Ct, South Side, 20' E. of Pebble Beach Ct.

EMPIRE JOB NO. 2730 REPORT NO. 4

FINE 1371 Lbs. MEDIUM 1728 Lbs. COARSE AGG. _____ Lbs. CEMENT 564 Lbs. FLY ASH _____ Lbs. WATER 28.13 Gals.

REQUIRED STRENGTH 3500 SLUMP 3 In. AIR 5.1 % UNIT WEIGHT 143.6 #/ft.³ YIELD 27.1 Ft.³/Yd.³

TEMP. (CONCRETE) 79 °F (AMBIENT) 81 °F WRA _____ AIR ENTRAINMENT 0.29 oz/sack

TRUCK NO. 26 TIME 2:00 CUBIC YARDS 8 CALCIUM CHLORIDE _____ ACCELERATOR _____

CYLINDER NO.	DATE MADE	DATE BROKEN	BREAK DAYS	BREAK POUNDS	BREAK PSI	AVG. DIA IN	CROSS SECTIONAL AREA IN	LENGTH IN	TYPE OF FRACTURE	Cure	
										Lab	Day/Field
1	7/ 9/91	7/16/91	7	91,500	3240	6.0	28.3	12.0	conical	7	
2	7/ 9/91	7/16/91	7	89,500	3170	6.0	28.3	12.0	conical	7	
3	7/ 9/91	8/ 6/91	28								
4	7/ 9/91	8/ 6/91	28								

CAST BY: Empire Laboratories BROKEN BY: 3 day _____ 7 day DJ 14 day _____ 28 day _____ 45 day _____ CONCRETE SUPPLIER: Poudre Pre-Mix

DISTRIBUTION: Albrecht Homes (1); Kiefer Concrete (1); Poudre Pre-Mix (1); City Ft. Collins Engineering (1)



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MAKING & CURING TEST SPECIMENS

Field C31

Laboratory C192

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COMPRESSIVE STRENGTH

C39

NAME OF PROJECT Center Greens - Southridge Greens

CONTRACTOR Kiefer Concrete

ENGINEER OR ARCHITECT _____ MIX NO. _____

LOCATION OF PLACEMENT Curb & Gutter: Egale Ct, Northern Side, 45' E. of Pebble Beach Ct.

EMPIRE JOB NO. 2730 REPORT NO. 1

FINE 1371 Lbs. MEDIUM 1728 Lbs. COARSE AGG. _____ Lbs. CEMENT 564 Lbs. FLY ASH _____ Lbs. WATER 28.13 Gals.

REQUIRED STRENGTH 3500 SLUMP 3 In. AIR 4.4 % UNIT WEIGHT 144.1 #/ft.³ YIELD 27.0 Ft.³/Yd.³

TEMP. (CONCRETE) 81 °F (AMBIENT) 75 °F WRA _____ AIR ENTRAINMENT 0.29 oz/sack

TRUCK NO. 21 TIME 1:30 CUBIC YARDS 8 CALCIUM CHLORIDE _____ ACCELERATOR _____

CYLINDER NO.	DATE MADE	DATE BROKEN	BREAK DAYS	BREAK POUNDS	BREAK PSI	AVG. DIA IN	CROSS SECTIONAL AREA IN	LENGTH IN	TYPE OF FRACTURE	Cure	
										Lab	Day/Field
1	7/ 8/91	7/15/91	7	97,000	3430	6.0	28.3	12.0	conical	7	
2	7/ 8/91	7/15/91	7	97,000	3430	6.0	28.3	12.0	conical	7	
3	7/ 8/91	8/ 5/91	28								
4	7/ 8/91	8/ 5/91	28								

CAST BY: Empire Laboratories BROKEN BY: 3 day _____ 7 day J 14 day _____ 28 day _____ 45 day _____ CONCRETE SUPPLIER: Poudre Pre-Mix

DISTRIBUTION: Albrecht Homes (1); Kiefer Concrete (1); Poudre Pre-Mix (1); City Ft. Collins Engineering (1)