



CITY OF RAPID CITY

RAPID CITY, SOUTH DAKOTA 57701

Public Works Department
Engineering Services Division

300 Sixth Street

Phone: 605-394-4154 Fax: 605-355-3083

TO: Terry Wolterstorff and Public Works Committee
FROM: Brandon Quiett
Engineering Project Engineer
DATE: May 31, 2012
RE: Infrastructure Acceptance
Cabelas Drive – GLM Subdivision No. 2
11PL008, DEV11-1048

Terry,

This letter is to confirm that the Cabelas Drive improvements, associated with GLM Subdivision No. 2, have been completed, tested, as-build have been submitted, warranty surety has been received, and the project can be accepted.

Per rapid City Ordinance 12.04.170(B) *"Infrastructure Acceptance - The Public Works Director shall place on the Public Works Committee agenda an action item recommending acceptance of infrastructure when the project as a whole is ready for acceptance."*

If you have any questions please let me know.

Sincerely,

Brandon Quiett, P.E.
Project Engineer

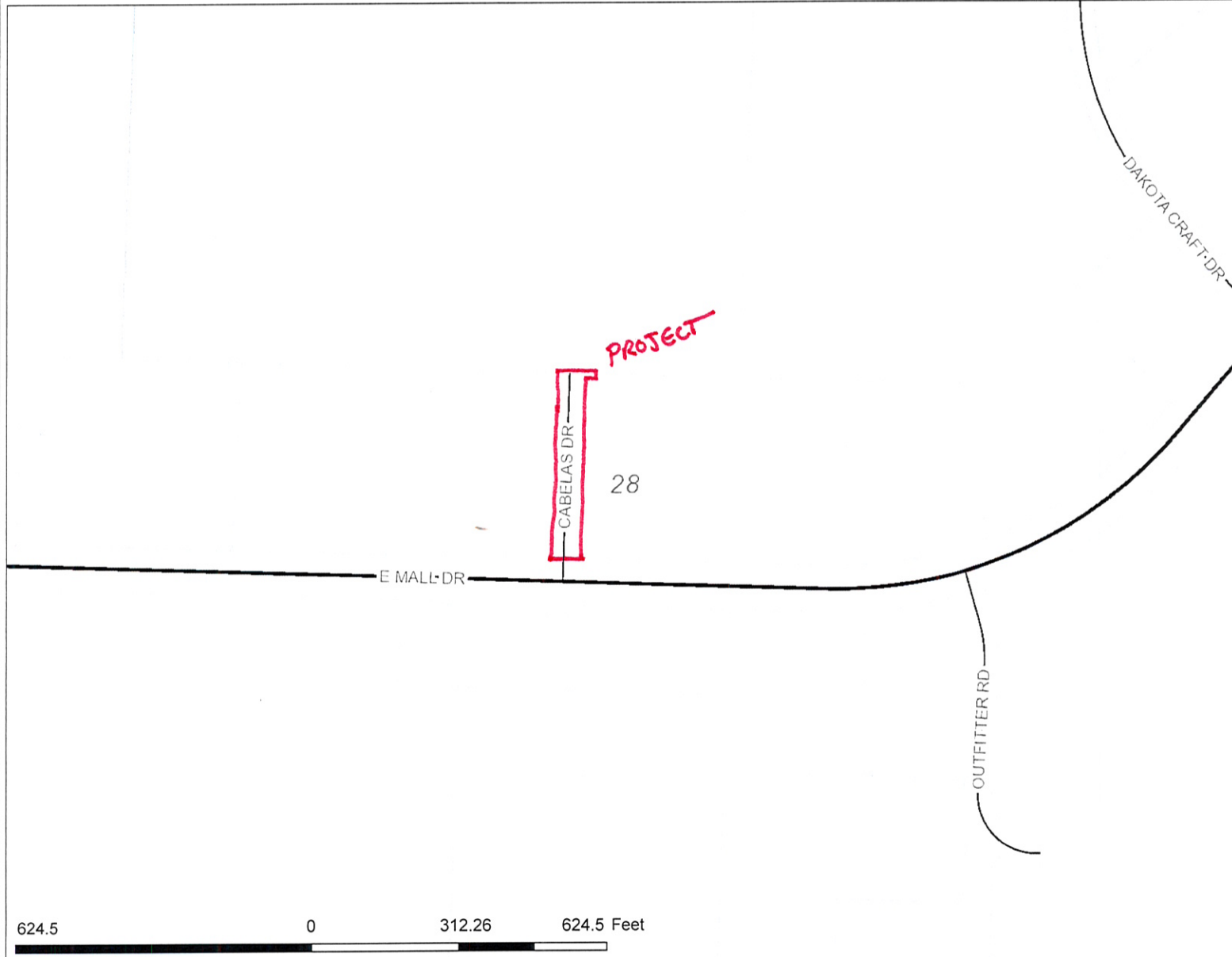
Attachments:

1. Vicinity Map
2. Cost estimate



EQUAL HOUSING
OPPORTUNITY

EQUAL OPPORTUNITY EMPLOYER



Legend

- Roads**
 - Not classified
 - Interstate
 - US Highway
 - SD Highway
 - County Highway
 - Main Road
 - Minor Arterial
 - Collector
 - Ramp
 - Paved Road
 - Unpaved Road
 - FS Unpaved Road
 - Driveway
 - Paved Alley
 - Unpaved Alley
 - Unimproved Road
 - Trail
 - Not yet coded
- Township/Section Lines**
 - TOWNSHIP
 - SECTION
- Tax Parcels**
- Lot Lines**
 - <all other values>
 - Lot Line
 - Parcel Line
- County Line



Scale: 1: 3,747

Map Notes:

DISCLAIMER: This map is provided 'as is' without warranty of any representation to accuracy, timeliness, or completeness. The burden for determining accuracy, completeness, timeliness, merchantability, and fitness for or the appropriateness for use rests solely on the user. Rapid City and Pennington County make no warranties, express or implied, as to the use of the map. There are no implied warranties of merchantability or fitness for a particular purpose. The user acknowledges and accepts the limitations of the map, including the fact that the data used to create the map is dynamic and is in the constant state of maintenance, correction, and update. This documents does not represent a legal survey of the land. There are no restrictions on the distribution of printed Rapid City/Pennington County maps, other than the City of Rapid City copyright/credit notice must be legible on the print. The user agrees to recognize and honor in perpetuity the copyrights and other proprietary claims for the map(s) established or produced by the City of Rapid City or the vendors furnishing said items to the City of Rapid City.

SUBDIVISION IMPROVEMENTS ESTIMATE

Plat of: LOTS 4,5,6, AND DEDICTED CABELAS DRIVE RIGHT-OF-WAY

Submitted by: DREAM DESIGN INT. INC. Engineer: Terry Cash
 Date: 5/3/2011
 Developer: *[Signature]*

This estimate shall be attached to and become a part of the petitioner's letter of credit, bond, or other surety instrument(s). During a period of two (2) years after the completion of the work listed below, the Developer shall make all repairs arising out of defective workmanship and/or materials which, in the judgment of the City Engineer, shall become necessary during said period. City reserves the right to extend the warranty period if excessive problems develop during the initial 2-year period.

ATTACH WORKSHEET AS NECESSARY

	ITEM	QUANTITY (Units)	UNIT PRICE	ESTIMATED PRICE
1	See Attached			\$242,961.47
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
	Subtotal			\$242,961.47
	TOTAL ESTIMATED COST			\$242,961.47
	SUBDIVISION INSPECTION FEE (paid separately to City Finance Office):			1.5% \$3,644.42

TO: City Finance Office

A bond in the amount of \$ 242,961.47 to cover installation of the above-listed improvements shall be posted upon submittal of the final plat.

[Signature] 5/6/11
 DEVELOPMENT SERVICE CENTER DATE

City Finance Office:

Bond Record:

Amount	Date Filed or Renewed	Expiration Date

Development Service Center:

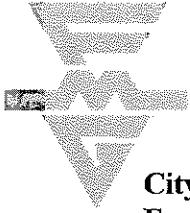
1. Work completed on: _____ Inspected by: _____
2. As-constructed plans received: Yes No

Permission is hereby granted to release the bond.

Signed: _____ DATE _____

CABELAS DRIVE 2011
ENGINEER'S ESTIMATED PROBABLE COST

BID ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY	Engineers Estimate	
				UNIT COST	TOTAL COST
CABELAS drive 2011					
MISCELLANEOUS					
100	MOBILIZATION	LS	1	\$5,000.00	\$5,000.00
101	SURVEY	LS	1	\$1,500.00	\$1,500.00
102	TESTING	LS	1	\$1,500.00	\$1,500.00
103	TRAFFIC CONTROL	LS	1	\$2,500.00	\$2,500.00
104	REMOVE CONCRETE CURB AND GUTTER	LF	46	\$6.82	\$313.72
GRADING AND SURFACING					
200	UNCLASSIFIED EXCAVATION	CY	2400	\$3.00	\$7,200.00
201	TOPSOIL, STRIP, STOCKPILE & REPLACE	CY	972	\$10.00	\$9,720.00
202	SEEDING MULCHING AND FERTILIZING	ACRE	0.7	\$1,250.00	\$875.00
203	CONCRETE FILLET & PAN, 8" REINFORCED	SY	98.7	\$78.64	\$7,761.77
204	SIGNAGE AND STRIPING	LS	1	\$12,000.00	\$12,000.00
205	AGGREGATE BASE COURSE	T	753	\$22.09	\$16,633.77
206	GRAVEL SURFACING, PERMANENT	T	260	\$19.94	\$5,184.40
207	AC, CLASS E, TYPE 1 PG64-28	T	500	\$106.18	\$53,090.00
208	CONCRETE CURB & GUTTER, TYPE B6-6	LF	964	\$24.06	\$23,193.84
209	CONCRETE SIDEWALK, 4" REINFORCED	SF	356.6	\$5.90	\$2,103.94
WATER AND SEWER					
301	8" GATE VALVE w/box	EA	1	\$1,379.35	\$1,379.35
302	8" 45 DEGREE BEND	EA	6	\$396.29	\$2,377.74
303	8" x 8" x 6" TEE	EA	1	\$459.79	\$459.79
304	8" MJ PLUG	EA	1	\$196.13	\$196.13
305	8" PVC WATER MAIN C-900, CLASS 150	LF	387	\$32.18	\$12,453.66
306	FIRE HYDRANT ASSEMBLY	EA	1	\$3,668.68	\$3,668.68
307	WATER MAIN ENCASEMENT	LF	100	\$1.00	\$100.00
308	CONNECT TO EXISTING WATER MAIN	EA	1	\$1,607.41	\$1,607.41
309	8" TRANSITIONAL COUPLING	EA	1	\$500.00	\$500.00
310	6" PVC WATER SERVICE C-900/RJ, CLASS 150	LF	70	\$47.00	\$3,290.00
311	CONNECT NEW SEWER SERVICE	EA	1	\$420.17	\$420.17
312	ADJUST MANHOLE RING & COVER	EA	2	\$562.89	\$1,125.78
DRAINAGE/STORM SEWER					
400	42" RCP, CLASS II, ARCH	LF	360	\$75.00	\$27,000.00
401	42" RCP FLARED END, ARCH	EA	8	\$2,900.00	\$23,200.00
402	CLASS 2 RIPRAP W/filter fabric	CY	80	\$40.00	\$3,200.00
403	SPECIAL TYPE "B" INLET	EA	2	\$3,350.06	\$6,700.12
EROSION & DUST CONTROL					
501	WATTELS 12"	LF	975	\$4.00	\$3,900.00
502	ROCK CONSTRUCTION ENTERANCE	TN	20	\$140.31	\$2,806.20
503	EROSION CONTROL PLAN	LS	1	\$1,000.00	\$1,000.00
TOTAL					\$242,961.47



FMG, INC. 3700 Sturgis Road, Rapid City, South Dakota 57702-0317 605/342-4105
FAX 605/342-4222

City of Rapid City
Engineering Division
Attn: Mr. Gale Schipke
300 6th Street
Rapid City, SD 57701

May 17, 2012

Re: 2012 City Wide Geotechnical, Construction Materials and QA/QC Services
Project No. PW12-1998 CIP #50637, Cabelas Drive and Unmarked Street to
Cambria Suites, Asphalt Pavement Section Verification, Rapid City, SD

Dear Mr. Schipke:

As requested, we have obtained core samples of the asphalt pavement and determined the pavement section at three locations on East Mall Drive in Rapid City, South Dakota. The core samples were taken on May 16, 2012, at the locations indicated by the City of Rapid City. The thickness of the asphalt and base course were measured for each location. Our findings are presented next.

- **Core No. 1: 0 to 6.5" - HMA (3.2" Top Lift & 3.3" Bottom Lift)**
6.5" to 12.5" Base Course with a woven geotextile fabric below
- **Core No. 2: 0 to 6.25" - (3.4" Top Lift & 2.85" Bottom Lift)**
6.25" to 15.5" Base Course with a geotextile fabric below
- **Core No. 3: 0 to 5.25" HMA (2.5" Top Lift & 2.75" Bottom Lift)**
5.25" to 15.5" Base Course with a geotextile fabric below

CABELAS
DRIVE

The core locations are presented on the attached map as Figure No. 1.

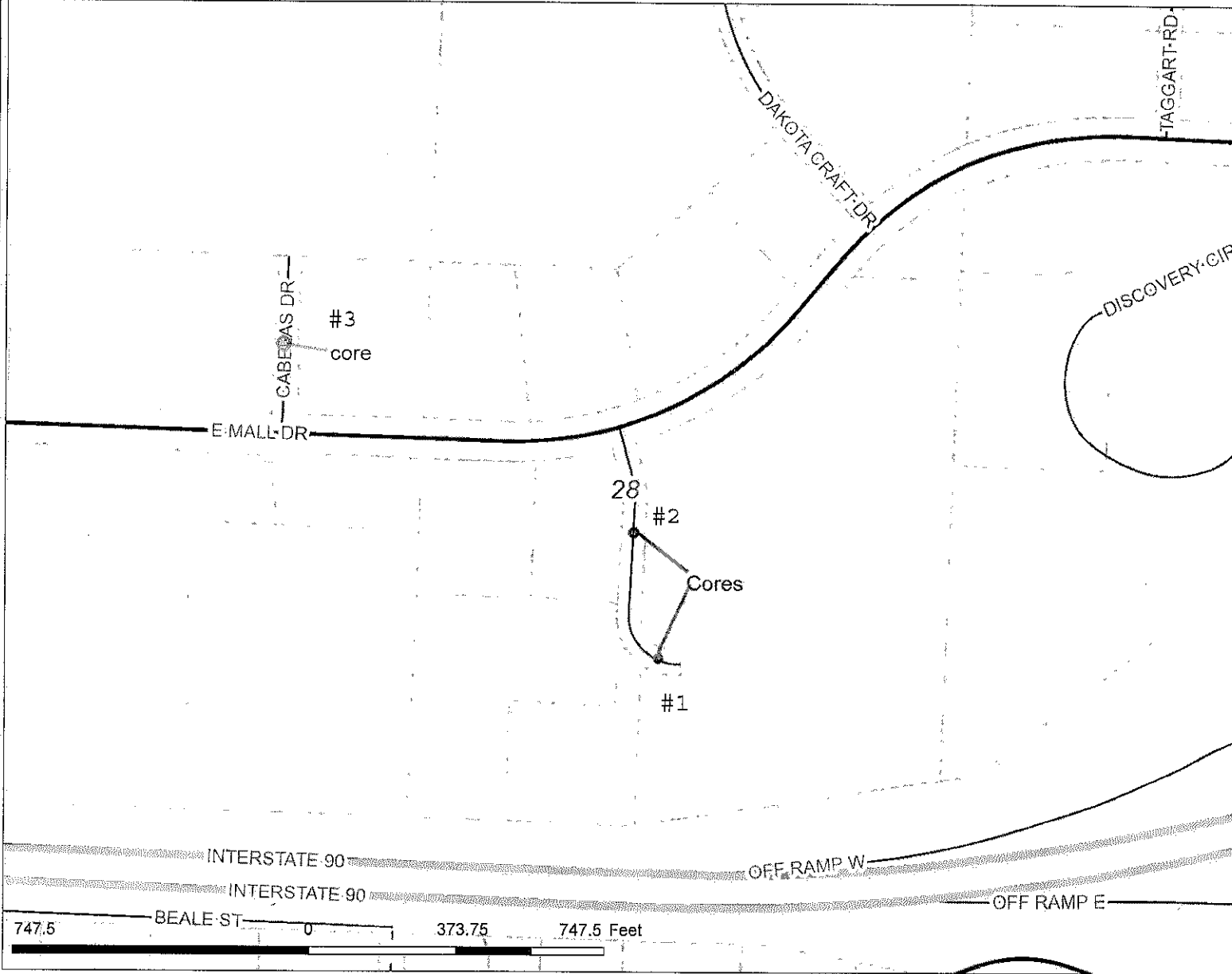
We trust this information is sufficient. If you have any questions or need anything additional, please don't hesitate to contact us. *Thank you for the opportunity to be of continued service.*

Sincerely,

FMG, Inc.

Dever P. Larson, CPRR

c: FMG File # 110163.02
L:\Project\Geotech Reports\110163.02 Task 4 2012 CityWideGeotech\110163.03 Task 4 Cabelas Dr. HMA cores



Legend

- Roads
 - Not classified
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 - FS Unpaved Road
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Scale: 1: 4,485

Map Notes:

Cores asphalt thickness and base thickness

Figure No. 1

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8105 Black Hawk Rd • PO Box 558 • Black Hawk, SD 57718-0558 • Phone (605) 787-9303 • FAX (605) 787-9515
 140 Pine Needle Drive • Spearfish, SD 57783 • Phone (605) 642-2742 • Mobile 390-3768

SITE WORK SPECIALISTS, INC.
 P.O. Box 7504
 Rapid City, South Dakota 57709

May 18, 2012

Attn: Mr. Chris Stout

ATS No. 12-12228

Subj: Pavement Section Evaluation
Cabela's Drive As-built Section
 Rapid City, South Dakota

PROJECT INFORMATION AND BRIEF HISTORY

As requested, we are providing this pavement evaluation for the as-built pavement section of Cabela's Drive in Rapid City, South Dakota. We were to evaluate the as-built section versus the design section for the roadway pavement section.

PAVEMENT EVALUATION

Based on our review of the in-place asphalt concrete and aggregate base course thicknesses determined by FMG, Inc., on May 16, 2012, we understand the as-built pavement section consists of 5.25" of asphalt concrete pavement overlying 10.25" of aggregate base course. We also understand that geotextile fabric is present below the aggregate base. We understand the plan design section called for 6" inches of asphalt concrete over 8" of aggregate base.

We computed the granular equivalent (GE) of both sections as:

Design Section:

HMA Pavement -	(6.00) X (2.00 GE factor)	= 12.00
Agg. Base -	(8.00) X (1.00 GE factor)	= 8.00
	Total Granular Equivalent	= 20.00

As-built Section:

HMA Pavement -	(5.25) X (2.00 GE factor)	= 10.50
Agg. Base -	(10.25) X (1.00 GE factor)	= 10.25
	Total Granular Equivalent	= 20.75

**SITE WORK SPECIALISTS, INC.
Pavement Section Evaluation
Cabela's Drive As-built Section**

May 18, 2012

Rapid City, South Dakota

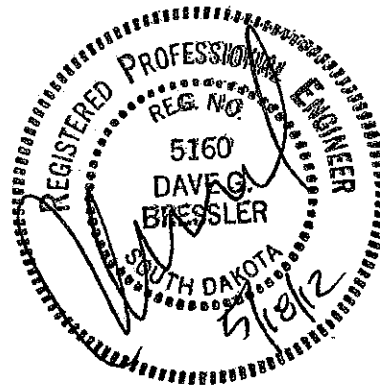
Conclusions:

Based on the granular equivalence evaluation, the as-built section provides a higher strength number than the design section.

Closure:

If there are questions regarding this report, or you desire additional consultation, please call us at (605) 787-9303.

Sincerely,
American Technical Services, Inc.



Dave G. Bressler, P.E.
Director of Engineering

Attachment: FMG Core Thicknesses

cc: File