

CHAPTER 15

FINAL ESTIMATES PERFORMANCE REVIEWS

15.1 PURPOSE

~~In keeping with the Department's mission, vision, and values, Final Estimates (FE) Performance Reviews (PR) will be~~ conducted into verify compliance with Department policies and procedures the Districts. For the purpose of this chapter, FE performance reviews will include Independent Assurance (IA) Reviews and Post Audit Reviews (PARs). The District Construction Office (DCO) personnel will conduct Independent Assurance (IA) Reviews to ~~are used to~~ evaluate the performance of Final Estimates (FE) Level II qualified personnel in preparing a Final Estimates Packages FE in accordance with Department policies and procedures. Post Audit Reviews (PARs) will also be ~~are performed used to assess the fFinal Estimates Ppackage and financial documentation throughout the project. They PAR's are completed on most projects by the District Final Estimates Office (DFEO) personnel when a Final Estimate Project is certified and turned submitted in-~~ to the appropriate {District Final Estimate Office (DFEO)}.

15.2 AUTHORITY

~~Code of Federal Regulations, Quality Assurance Procedures for Construction, 23 CFR 637, April 1, Sections 20.23(3)(a) and , Chapters 119, 286, and Sections 334.044(2), 334.048(3) Florida Statutes (F.S.)~~
FDOT Standard Specifications for Road and Bridge Construction

15.2.1 REFERENCES

Title 23 Code of Federal Regulations (CFR) 637, Quality Assurance Procedures for Construction

15.3 REVIEW PERSONNEL

~~Any person who performs IA Reviews and PARs must hold a current Final Estimate (FE) Level II qualification from the Construction Training Qualification Program (CTQP). Review personnel will be~~ staffs are Department personnel from the DFEO. Resident Offices will NOT perform IA rReviews or PARs. All IA and PAR Personnel must hold a current FE Level II qualification from the Construction Training Qualification Program (CTQP).

15.4 GENERAL INFORMATION

~~A Final Estimates IA and a Final Estimates PAR are improvement tools.~~

Project personnel (in-house and consultant) who perform FE duties for the Department's construction projects must ~~have~~ possess a current FE Level II course qualification through the CTQP. Individual qualifications can be verified by ~~calling~~ contacting the CTQP Administrator Office:

~~Phone: at~~ (813) 864-2595 ~~or call~~ (813) 864-2673.

~~The~~ Fax Number: ~~is~~ (813) 864-25959.

~~M~~ ~~The~~ mailing address ~~is~~:

CTQP Administrator

; 4890 West Kennedy Blvd., Suite ~~740~~300

; Tampa, FL 33609

~~W~~, ~~or~~ web site: ~~http://www.ctqpfloida.com/~~ http://www.ctqpfloida.com/

~~F~~ ~~or~~ ~~for~~ ~~-~~generic information, email ~~to~~: info@ctqofloida.com

~~Periodic IA Review evaluations are intended to assure continuance of qualifications used on construction projects by Districts, Consultants, and Resident Offices (RO). The IA Review is done on qualified individuals using the **Final Estimates Independent Assurance Review Checklist** (see **Appendix 15-2**). PARs are done performed at the DFEO when a Certified Final Estimates Project is received by either a Consultant or In-House.~~

CTQP qualifications are subject to suspension according to the **Construction Training and Qualification Manual (CTQM), Chapter 19, Section 1.10.49.7**. CTQP qualifications are subject to disqualification according to the **CTQM, Chapter 9, Section 9.8**.

~~The number of evaluations for each qualification area will be a percentage of the active qualified personnel in that qualification area for one year, per **Section 15.5** of this manual.~~

The District Construction Office (DCO) will be responsible for performing the performance reviews and maintaining the information inputted into monitor and review the FE Qualification Performance System Database ~~(The IA Process Computer Program)~~ for their District, and the State Construction Office (SCO) will monitor and review this- program, statewide, to ensure consistency in implementation and to evaluate the effectiveness of the program.

15.5 FREQUENCY OF EVALUATIONS

~~The frequency of the DFEO IA Review evaluations will be determined by a statistically representative evaluation of active qualified FE Level II personnel. The minimum frequency of the DFEO IA Review evaluations will be 30% of the active personnel annually within the District annually. A list of all active FE Level II personnel within tThe Districts will be inputted in use a random number evaluating system to identifydetermine the personnel that will be evaluated. generate, at least the minimum personnel, who will be reviewed. The list will be generated at the beginning of each year. Each District Final Estimates Manager (DFEM) will send their report to the State Final Estimates Engineer (SFEE) of the number of active personnel along with the quantityand the number of personnel that will be evaluatedreviewed.~~

15.6 SCHEDULING EVALUATIONS

The DFEO's staff will perform the IA Review evaluations of active personnel qualified in FE Level II that are scheduled throughout a calendar year to meet the minimum frequency as specified in **Section 15.5 of this Manual**.

These ~~reviews~~proposed evaluations should be scheduled with the ~~IA person in question~~FE Level II qualified person by contacting the individual or their supervisor and scheduling a date and time.

DFEO IA Review Personnel performing evaluations will use the Final Estimates Qualification Performance Report (FEQPR). ~~(See Appendix 15-1), also available on the website.~~ They will also use the Final Estimates Independent Assurance Review Checklist to guide them through the evaluation. ~~(See Appendix 15-2).~~

15.7 EVALUATIONS

15.7.1 ~~THE~~ DFEO EVALUATIONS

The goal ~~offer the~~ DFEO IA Reviews ~~and the~~ PARs is to ~~serve~~provide as an improvement tool for all qualified personnel ~~performing preparing FE duties. final estimates for~~Department construction projects.

~~Starting in December 15, 2003,~~ ~~e~~Each Resident Engineer shall ensure that all Training Identification Numbers (TINs) for the FE Level II qualified personnel are ~~forwarded~~submitted to the DFEO, as soon as qualifications are met.

Personnel will be evaluated on the performance, proficiency, and observation, in preparing and maintaining ~~of~~ the FE Package in accordance with Department policies and procedures~~the CTQP FE Level II Training Class.~~

Process of evaluations for the DFEO is described in the sections below~~as follows:~~

15.7.1.1 IA REVIEWS PROCESS

- a. ~~Scheduled~~ with the Resident Office (RO).
- b. ~~Conducted~~ IA Review at the RO and/or on the construction project.
- c. ~~Conducted~~ on ~~currently~~ active contracts.
- d. ~~d) — Conducted using~~ Complete the FEQPR Form.
- e. ~~e) — Reviewer will Ff~~ ocused on performance of the preparation and documentation of a FE package.
- a) ~~f) — Conducted using~~ Use the **FE Check-list** with emphasis on the following areas:
(See Appendix 15-2.)
- f. _____

1. ~~1.~~ Earthwork
2. ~~2.~~ Asphalt
3. ~~3.~~ Concrete
4. ~~4.~~ Assessments of deficiencies, adjustments, and disposition of samples.
5. ~~5.~~ Contract administration such as, liquidated damages, alternative contracts, bonuses, etc.

~~An observational IA Review The evaluation will review performance, proficiency, and/or observation. The evaluation by observation will be considered satisfactory if all items on the **FE Checklist** (see **Appendix 15-2**) are completed correctly. For unsatisfactory evaluations, in addition to the personnel listed on the report, copies will be submitted distributed as specified in the report, in addition to the personnel listed on the IA report. A FE Level II -qualified persons may be reviewed on one project or on several projects at the same time, and if weather procedural errors are found on one or more any of the multiple projects, the DFEO may give only one (1) strike. (See Section 15.8.)~~

~~Refusal to participate or lack of cooperation, in the IA Review evaluation is will be a sufficient reason to consider an evaluation unsatisfactory.~~

~~15.7.1.2~~ **15.7.1.2 Post-OST AUDIT REVIEWs (PARs)**

- ~~a. a.~~ Conducted PARs at the DFEO
- ~~b. b.~~ Conducted on all Certified Projects. (see **Chapter 4, Section 4.3** of the **Review and Administration Manual** for minimum requirements)
- ~~c. c.~~ Focused on performance of the preparation and documentation of a FE package.
- ~~d. d.~~ Conducted using the **FE Check-list** that was used on the IA Review to see if all was done right ensure compliance and with emphasis on the following areas: See **Appendix 15-2** same areas as the IA Review. (See in **Section 15.7.1.1(f)**), See Also Refer to the **FE Guidelist** for more information regarding FE reviews, and the **Review & Admin Manual**.

1. ~~1.~~ Earthwork
2. ~~2.~~ Asphalt
3. ~~3.~~ Concrete
4. ~~4.~~ Assessments of deficiencies, adjustments, and disposition of samples.
5. ~~5.~~ Contract administration such as, liquidated damages, alternative contracts, bonuses, etc.

~~The PAR evaluation will review performance, and proficiency, using the IA Checklist that was performed on used during the IA Review of the qualified person before the project was certified and turned in. If procedural errors are found tThe PAR rReport will list all the procedural errors found during the review and will be sent to tThe Resident Office RO/ or Consultant Office, to the Project Engineer on the Project and~~

~~for consultants the~~ Project Manager, the ~~Project Administrator~~PA, and the ~~Contract~~struct Support Specialist (CSS) on the project, ~~and the report will state that the who~~ The responsible parties are required to respond to any findings the issue(s) on the PAR Rreport in 14 days for resolution, so that ~~future these same~~ errors will not occur~~recur~~ in the future. If the PAR is satisfactory and the product is well prepared, the report should be sent out to all responsible parties. (See **Chapter 4** of this manual, ~~s~~Section 4.3, and ~~Also see~~ Attachment 4-5, Sample Post Audit Review for Certified Final Estimates Report, Attachment 4-5 in **Chapter 4** of this manual.)

15.8 NON-COMPLIANCE/STRIKE

A strike is an area of non-compliance or unsatisfactory evaluation where a ~~qualified~~ FE Level II qualified person fails to adhere to contract documents, policies and procedures (~~Review & Administration Manual (R&AM), Computation Methods for Design, Construction, and Final Estimates (CMDCFE) Handbook, Construction Project Administration Manual (CPAM), and the FE Guidelist~~).

Each IA Review evaluation that is unsatisfactory, or that documents non-compliance in one or more areas, will result in one (1) strike. See **Appendix 15-2**.

A strike will be given on IA Reviews only, and only if a person has a procedural error(s). Strikes will not be given on PARs. However, the PAR Rreports should provide positive and/or negative feedback so that the final estimates process continues to show improvements and positive outcomes (~~complete~~excellent FE packages ~~and~~ without any errors).

15.9 IA REVIEW EVALUATION

The DCO personnel conducting an IA Review will report all observations on the FEQPR. See **Appendix 15-1**.

~~In case of non-compliance (see Section 15.11), the n~~All IA reviews will be inputted into the Final Estimates Qualification Performance System (FEQPS). Any reported issues on n~~Non-~~compliance will be noted in the the Final Estimates Qualification Performance Ssystem FEQPS with an explanation of the strike(FEQPS) Database. The DFEO designated personnel will continuously update ~~this database system~~the FEQPS. (See Section 15.11)

15.10 DOCUMENTATION

15.10.1 ~~FE Qualification Performance System (FEQPSS)~~ Database

~~The DFEO IA Process Computer Program is called t~~The FEQPS Database. It will be formulated and resides within the SCO's Systems Section and will be updated by the DFEO designated personnel.

~~This system with all active qualified personnel's~~The Training Identification Number (TIN)
~~for all active qualified~~FE Level II qualified personnel will be entered into a database, as provided by the DFEO.

The DFEO IA Review Personnel shall promptly document ~~these~~evaluation results to support the FEQPR, in accordance with **Section 15.10.2**.

Each DFEO will prepare a ***System's Report***FEQPR for the ~~State Final Estimates~~
~~Manager Engineer (SFEEM)~~. This report ~~will~~ will refer to include the goals set forth for that calendar year. It will also include the results achieved from the previous year and goals for the upcoming year.

15.10.2 FINAL ESTIMATES QUALIFICATION PERFORMANCE REPORT (FEQPR)

The FEQPR, as shown in **Appendix 15-1**, shall be accompanied with the FE IA Review PR Checklist, (see **Appendix 15-2**).

~~The FEQPR isise FEQPRreport will be~~ used to document the results of the IA Review evaluation by ~~entryentering information~~ into the database ~~and will be completed~~ within five (5) working days after the IA Review. The evaluations will be based on the FE IA Review PR Checklist (see Appendix 5-12). ~~willThe DFEO will -be keptkeep~~ and maintained these evaluations by the DFEO for a minimum of five (5) years. ~~The evaluations will be based on the FE PR Checklist, (see Appendix 15-2).~~

15.11 SUSPENSIONS

~~In order to maintain qualification status, IA Review Personnel from the DFEO will evaluate FE Level II personnel. A DFEO qQualified IA Review personPersonnel will file an FEQPR (see Appendix 15-1), stating that he/she has witnessed a qualified FE Level II person perform FE duties (see Appendix 15-2) in an erroneous manner (by not following Contract Documents, and FDOT procedures), with errors/strikes notated and the qualified FE Level II qualified person shall be subject to the following actionsguidelines per individual strikequalification:~~

1st Strike Documented on the FEQPR and entered into the FEQPS database. ~~Send~~ Submit the report to the individual, supervisor, and the Resident Engineer (RE).

~~When a qualified DFEO IA person notes the first strike on an individual, the strike will be on one or more of the topics mentioned in Section 15.7 of this chapter. See Subsections Section 15.7.1.1. Also, the first strike can be given to one individual who is working on one or several projects at the same time.~~

~~If a subsequent observation is documented satisfactory, in accordance with Appendix 15.2, "no additional strike" will be added. The first strike will still remain in the FEQPS database for two (2) full years, and if no other strikes occur during the two (2)-year period, at the end of the two (2) years, the first strike will then be deletedremoved from the FEQPS database.~~

~~**Note:** A year will be considered to run only from January through December. Example: If a strike is received in March 2015, it will be removed in December 2017.~~

2nd Strike Documented on the FEQPR and entered into the FEQPS database. ~~Send~~ Submit the report to the individual, supervisor, the RE, and the SFEME.

~~A strike will be on one or more of the topics mentioned in Section 15.7 of this chapter. See Subsections 15.7.1.1. When an IA is done, and when procedure errors are found, a strike would be given to a qualified person per review.~~

The RE ~~should consider~~will provide additional training for the individual in question when a second strike occurs.

If a subsequent observation is documented satisfactory, in accordance with **Appendix 15-2**, "no additional strike" will be added. The first and second strikes will ~~still~~ remain in the FEQPS database for ~~a the~~ two ~~(2) full~~-year period commencing on reporting the second strikes. limit, and if no other strikes occurs within the two ~~(2)~~ year period, ~~at the end of the two (2) years,~~ the first and second strikes will then be ~~deleted~~removed from the FEQPS database.

3rd Strike

Suspension of qualification: Should ~~at the~~ 3rd strike be given and determined valid, within two (2) years ~~(from the 1st strike),~~ the ~~District Final Estimates Manager (DFEM)~~ will discuss the matter with the DCE and inform the SFEME for initiating suspension of an individual's FE Level II qualification. This will be documented in the FEQPS database, and a copy sent to the CTQP by e-mail ~~or letter~~ for entry into the CTQP database. ~~Copies The FEQPR report~~ will also be ~~sentsubmitted~~ to the individual, the supervisor, RE, DCE, and SFEME.

~~This~~A suspension decision may be appealed by the individual to the SFEME. The SFEME's will review the appeal and the resulting decision is final. The individual will not be able to perform FE Level II functions until re-qualification is attained. The individual must attend the FE Level II qualification course, and pass the written examination through the CTQP, in order to become re-qualified. When Once the individual passes the FE Level II course examination, all previous strikes will then be ~~deleted~~removed from the FEQPS databasesystem. At that time, the individual will begin with a clean evaluation status until the next evaluation by the DFEO.

Note: In general, if the individual receives less than three (3) strikes within the two ~~(2)~~ year limit, all strikes will ~~then be~~ deleted removed after the end of December of the second ~~full~~-year.

APPENDIX 15-1

F-E QUALIFICATION PERFORMANCE REPORT

Employee Information

Employee Name (or): _____
Employee TIN: _____
District: _____
Resident Office: _____

Independent Assurance Information

Project #: _____
Date: _____
Time: _____
Location: _____

Attachments: _____

Areas Reviewed:

Earthwork: _____

Asphalt: _____

Concrete: _____

Penalties Assessed: _____

Contract Administration: _____

Assessment of deficiencies, _____
Adjustments & disposition of samples

Summary of Observation:

The Discrepancy was: _____

If results were unsatisfactory, indicate action taken:

- 1st Action: results documented. (cc: Employee, and Resident Engineer (RE)).
- 2nd Action: results documented. (cc: Employee, RE, and District Final Estimates Manager (DFEM))
- 3rd Action: written summary of observations sent to Employee, District Construction Engineer (DCE), RE, and DFEM for disposition.

Independent Assurance Observer

Date

Original: Data entry Tallahassee

cc: See above Other: _____

APPENDIX 15-2

FINAL ESTIMATES INDEPENDENT ASSURANCE REVIEW CHECKLIST

DFEO CHECKLIST DURING CONSTRUCTION, POST CONSTRUCTION, AND CERTIFIED JOB

The criteria for DFEO checklist ~~include are as follows:~~

I . Contract administration

II . Earthwork Items

III. Asphalt Items

IV . Concrete a) Foundations (piling, drill shaft, etc.)

b) Substructure

c) Superstructure

V . Warranties

~~0~~
APPENDIX 15- 2 (Updated 10-14-26-20135)

FINAL ESTIMATES INDEPENDENT ASSURANCE REVIEW CHECKLIST

A) DFEO CONSTRUCTION CHECKLIST FOR IA

ITEMS CHECKED	References	P	F	N/A	REMARKS
I. Contract Administration					
a. —a. Contract, comp book, Contract Pplans and Summary Boxes, s, Special pProvisions, etc. available	CPAM CH 5, R&AM				
b. —b. Comp BookPlan Summary Boxes within the Plans					
1. — 1. Price adjustments applied and shown in comp book, including adjustments /; any additions/deletions	CPAM CH 5 Specifications				
2. — 2. Final quantities summarized as they are completed	CPAM CH 5				
3. — 3. Cross reference all data that supports the final quantity	CPAM CH 5				
4. — 4. Penalties assessed and shown	P&DM				
5. — 5. Thickness adjustments applied and shown	Section Specification 285				
6. — 6. Method of payment verification (Plan Quantity, Final Measure, or Lump Sum)					
7. Fuel & bit adjustments shown in Comp Book					
All- 78. All Final Estimates documentation and back up in EDMS and eventually into their Collaboration Site, whereas applicable.					
c. —c. Final As-Built Plans					
1. —1. Updated as project progresses A -All field revisions shown. Marked up in red font. using the cloud feature in Bluebeam a. All EOR revisions placed appropriately per	CPAM CH 5				

<u>Section 5.12 of CPAM.</u>				
a.b. <u>Voided sheets identified and in the correct order.</u>				
2. 2. Bridge Plans:				
a. <u>a. Final As-Built Plans</u> -Load Ratings recorded on appropriate forms kept with <u>attached to and submitted with</u> Plans	CPAM CH 5			
a.b. <u>b. Final As-Built Plans</u> -Drill Shaft Inspection records kept attached <u>submitted with to with</u> Plans	CPAM CH 5			
c. <u>Final As-Built Plans</u> -Pile Driving Log <u>folders certified and submitted with Plans Book/</u> Records recorded appropriately.	CPAM CH 5			
d. d. Contract Time:				
1. 1. All time extensions reflected on summary contract time	CPAM CH 5			
2. 2. Overrun in contract time reflected in LDs/disincentive charged on monthly or progress estimate	CPAM, Specifications			
3. 3. Deduction made for late contract execution	Specifications			
4. 4. Time charges summarized				
e. e. Contractor's Certifications Payment based on Certification of Quantities/Worksheets/Monthly Estimates received monthly:				
1. 1. Bituminous Certification and/or Worksheets (All Projects)				
2. 2. Fuel Worksheets (LS/DB Projects). <u>For Conventional, done in Site Manager</u>				
3. 3. Asphalt quantity certifications, certified for each pay item (Conventional Projects). <u>Worksheets turned in for LS/DB projects</u>				

<p>4. MOT Signs, etc. & Traffic Markings Certifications (Conventional & LS/DB Projects only)</p>				
<p>5. Traffic Marking Certification (Worksheet for (Conventional & LS/DB Projects) 5.6. All other monthly certifications pertaining to the progress estimate and monthly payment</p>	<p><u>CPAM CH 5</u></p>			
<p>f. Materials</p>				
<p>1. Check all deficiencies, in Certification of Materials as they are turned in. (Have you addressed this on pay estimates?)</p>				
<p>II. Earthwork</p>				
<p>a. Pre-construction work</p>				
<p>1. If cross section waiver requested, was it approved prior to clearing & grubbing?</p>				
<p>2. Bench level loop performed and verified.</p>	<p>CPAM CH 5</p>			
<p>3. Errors in vertical control data detected in the initial benchmark loop verification field notes with results forwarded to contractor?</p>				
<p>4. Has verification of original terrain line been recorded appropriately prior to any clearing & grubbing?</p>				
<p>5. Errors in cross sections detected, and was contractor notified?</p>				
<p>6. If paying by truck measurements, has a list of trucks with their assigned numbers and their certified capacity been provided?</p>	<p>Per Specs</p>			
<p>b. During Construction work:</p>				
<p>1. Have all temporary benchmarks used during subsoil excavation been properly referenced <u>in field book using the Final Measurement Miscellaneous form</u>? <u>Is there any reference to the original Bench Mark (BM) and page number where originally established?</u></p>				

2. 2. If extra depth subsoil encountered and excavated, have calculations been made for accurate payment for additional material?	CPAM CH 5, Specifications			
3. 3. Is subsoil excavation that exceeds the limits of authorized excavation been paid for and explained for each occurrence?				
c. c. After Completion of Earthwork:				
1. 1. Have all adjustments to embankment due to subsoil excavation overruns or underruns been made?				
2. 2. Have final measurements/counts been summarized, checked & documented on the appropriate Site-Source-Record?				
3. 3. Have all changes to final earthwork been indicated on final plans, and/or cross-section plots included?				
III. Asphalt				
a. a. Conventional Projects				
1. 1. Does the lot submittal package have all supporting documentation?	CPAM CH 11			
2. 2. Does the tonnage tickets match the Contractor's Quality Control reports?				
3. 3. Unit price adjustment for each composite pay factor percentage adjustment? <u>Paid on the monthly estimate</u>				
4. 4. <u>Spread rate based on Design Mix? Asphalt Pay item paid per Specifications (up to 105% adjustments) made on the monthly estimate</u>	Section 234, <u>285, 287, 334, 337,339</u>			
<u>5. Have penalties been assessed?</u>	<u>Specifications</u>			
5.6. <u>65.</u> Roadway As-Built Pavement data form currently entered data into LIMS (manually). New version of this form will be available on the Construction website under	CPAM CH 5			

<p>CARS for in-house and on the Forms & procedure's website for external users. The new version will be created to be uploaded into a database-submitted appropriately into the Construction Automated Reporting System (CARS) System</p>					
<p>b. — b. Alternative Contracts (LS and DB)</p>					
<p>1. — 1. Is there a letLOT Ssubmittal pPackage for each adjustment to the lump sum price based on the composite pay factor worksheet?</p>					
<p>2. — 2. Fuel & bituminous adjustments in accordance with Contract?</p>					
<p>3. — 3. Spread rate adjustment in accordance with contract?</p>					
<p>4. — 4. Spread rate based on design mix? Are monthly payments kept up with shown on the Schedule Of Values (SOV)?</p>					
<p>5. Spread Rate Adjustments up to 105% per Specifications?</p>					
<p>6. Any Penalties? Have they been assessed per Specifications?</p>					
<p>IV- Concrete (Foundations, Substructure, and Superstructure)</p>					
<p>a. — a. Records</p>					
<p>1. — 1. Are low strength failure penalties calculated according to contract?</p>					
<p>2. — 2. Have adjustments to unit price been made?</p>					
<p>b. — b. Piling verification:</p>					
<p>1. — 1. Authorized pile lengths provided?</p>					
<p>2. — 2. Payments for performed holes, buildups, splices, re-drives, cutoffs, and set checks documented in pile driving records and related to payment according to specifications?</p>					
<p>c. — c. Drill Shafts</p>					

1. 1. Contract documents reviewed for applicable specifications related to payments?					
V - Warranties					
a. a. Asphalt pavement	Section 337-338				
b. b. Bridge deck exp. joints, etc. <u>other bridge warranties</u>	Section 401				
c. c. Bearing devices	Section 401				
d. d. Bridge electrical/ lighting system	Section 401				
e. e. Coatings	Section 401				
f. f. Concrete pavement	Section 355				
g. g. Design Build warranty (complete project)					
h. h. Bridge drainage system	Section 401				
i. i. ITS warranty					
j. j. Landscape installation	Section 580				
k. k. Post construction warranty (add-on)					
l. l. Traffic markings	Section 707-713				
m. m. Performance turf	Section 570				
n. n. Building warranties, etc.					