SECTION-37 SEAL COATS

2015 Update
GENERAL

- Section 37 – deals with all types of Seal Coats
- Has been revised for uniformity and consistency between various sections
- Caltrans and industry is working together
- Completed final draft – have minor changes to make before it will be used as NSSP and then released in July 2016 as RSS
- Not included in 2015 Standard Specifications print
ORGANIZATION – OVERALL

- Section 37-1: General - all types of seal coats
- Section 37-2: Chip Seals
- Section 37-3: Slurry Seal and Micro-Surfacings
- Section 37-4: Fog Seals and Flush Coats
- Section 37-5: Parking Area Seals
- Section 37-6: Crack Treatments
ORGANIZATION – OVERALL

Section 37-2 Chip Seals

- Section 37-2.01 – General
- Section 37-2.02 – Asphaltic Emulsion Chip Seals
- Section 37-2.03 – Polymer Modified Asphaltic Emulsion Chip Seals
- Section 37-2.04 – Asphalt Rubber Binder Chip Seals
- Section 37-2.05 – Stress Absorbing Member Interlayers
- Section 37-2.06 – Modified Asphalt Binder Chip Seals
- Section 37-2.07 – Scrub Seals

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Section 37-3 Slurry Seals and Micro-Surfacings

- Section 37-3.01 – General
- Section 37-3.02 – Slurry Seals
- Section 37-3.03 – Micro-Surfacing
- Section 37-3.04 – Rubberized and Modified Slurry Seals
ORGANIZATION – OVERALL

Section 37-4 Fog Seals and Flush Coats

- Section 37-4.01 – General
- Section 37-4.02 – Fog Seals
- Section 37-4.03 – Flush Coats
Section 37-5 Parking Area Seals

- Section 37-5.01 – General

Section 37-6 Crack Treatments

- Section 37-6.01 – General
ORGANIZATION – SPECIFIC

- Nested pyramid structure

- Each of the sections is organized in the following order:
  - GENERAL
    - Summary
    - Definitions
    - Submittals
    - Quality Assurance
  - MATERIALS
  - CONSTRUCTION
  - PAYMENT
Section 37-1 General

- Section 37-1.01: GENERAL
- Section 37-1.01A: Summary – summarizes what is covered under seal coats
- Section 37-1.01B: Definitions – reserved - not used
- Section 37-1.01C: Submittals – details submittal requirements for seal coats
- Section 37-1.01D: Quality Assurance – details quality assurance requirements for seal coats
Section 37-1 General

- Section 37-1.02: MATERIALS - not used – covered in individual sections
- Section 37-1.03: CONSTRUCTION - covers construction requirements for seal coats
- Section 37-1.03A: General - details general construction requirements for seal coats
- Section 37-1.03B: Equipment - details equipment requirements for seal coats
- Section 37-1.04: PAYMENT - not used – covered in individual sections
Section 37-2 Chip Seals

- Section 37-2.01A – covers general
  - Summary
  - Definitions
  - Submittals
  - Quality Assurance
    - Quality control for aggregates and chip seals
    - Department acceptance for aggregates
Section 37-2 Chip Seals

- Section 37-2.01B – covers materials
  - Chip seal aggregate quality requirements and related test methods
  - Chip seal aggregate retention requirements and related test methods
  - Emulsion quality requirements and related tests are covered in other sections and so are not mentioned here
Section 37-2 Chip Seals

- Section 37-2.01C – covers construction
  - General requirements
  - Equipment requirements
  - Surface preparation
  - Placement requirements
    - General placement requirements
    - Asphaltic emulsion/binder application
    - Aggregate spreading
    - Finishing, Traffic control, sweeping
    - Excess aggregate disposal, chip seal maintenance
Section 37-2 Chip Seals

- Section 37-2.01D – covers payment

- Sections 37-2.01A – D: apply to all types of chip seals – i.e. Section 37-2.02 through Section 37-2.07
Sections are organized in a nested pyramid structure

- General
  - Summary
  - Definitions
  - Submittals
  - Quality Assurance
    - General
    - Quality Control
    - Department Acceptance
ORGANIZATION – SPECIFIC

- Materials
  - General
  - Binder/Emulsion/Modifiers
  - Aggregate

- Construction
  - General
  - Equipment
  - Surface preparation
  - Placement

- Payment
  - Measurement
SUMMARY

- Section 37 – deals with Seal Coats
- Revised – for uniformity and consistency between various sections - Caltrans and industry joint effort
- Minor changes still to be made - will be used as NSSP as soon as possible and the released as RSS in next quarterly update

- REMEMBER - nested pyramid structure
SUMMARY

Nested Pyramid Structure

- General Division – I, II and XI
- Division General – Division V, Surfacings and Pavements
- Section General – Section 36, General
- Specific Section General – Section 37, Seal Coats
- Specific Technical Section – Section 37-2, Chip Seals
SUMMARY

For Example

- If we have a project for placing Polymer Modified Asphaltic Emulsion Chip Seals
- Can’t just look at just Section 37-2.03, Polymer Modified Asphaltic Emulsion Chip Seals
- Need to look at:
  - Section 37-2.03 Polymer Modified Asphaltic Emulsion Chip Seals
  - Section 37-2.01 General (applicable to all types of Chip Seals)
  - Section 37-1 General (applicable to all types of Seal Coats)
  - Section 36 – 1 General (applicable to all surfacings and pavements)
  - Divisions I, II and XI (applicable to all projects)

Nested pyramid structure
THANK YOU!

QUESTIONS?