

Highway Reconstruction Program

Presentation to AGC

June 4, 2020





Agenda

- ▶ Pre-COVID Year to Date Results
- ▶ Construction Industry Readiness
- ▶ General Mitigation Strategies during Lockdown
 - Personnel Activation (Teleworking)
 - Contractor's Certification Process
 - CO/EWO processing
 - Consultants Invoices processing
 - Material testing SOP
- ▶ Other Initiatives
 - Operational Requirements
 - Pre-Construction
 - Bid Process modifications
- ▶ 2020 Bid Program
- ▶ Final Remarks



Pre-COVID YTD Results



PRHTA 2020 Projections – Active Programs

The PRHTA is executing the most aggressive highway reconstruction program in recent decades

Most of the efforts are related to reconstruction of the entire highway network with an investment of \$1,900 millions, creating over 48,900 jobs.

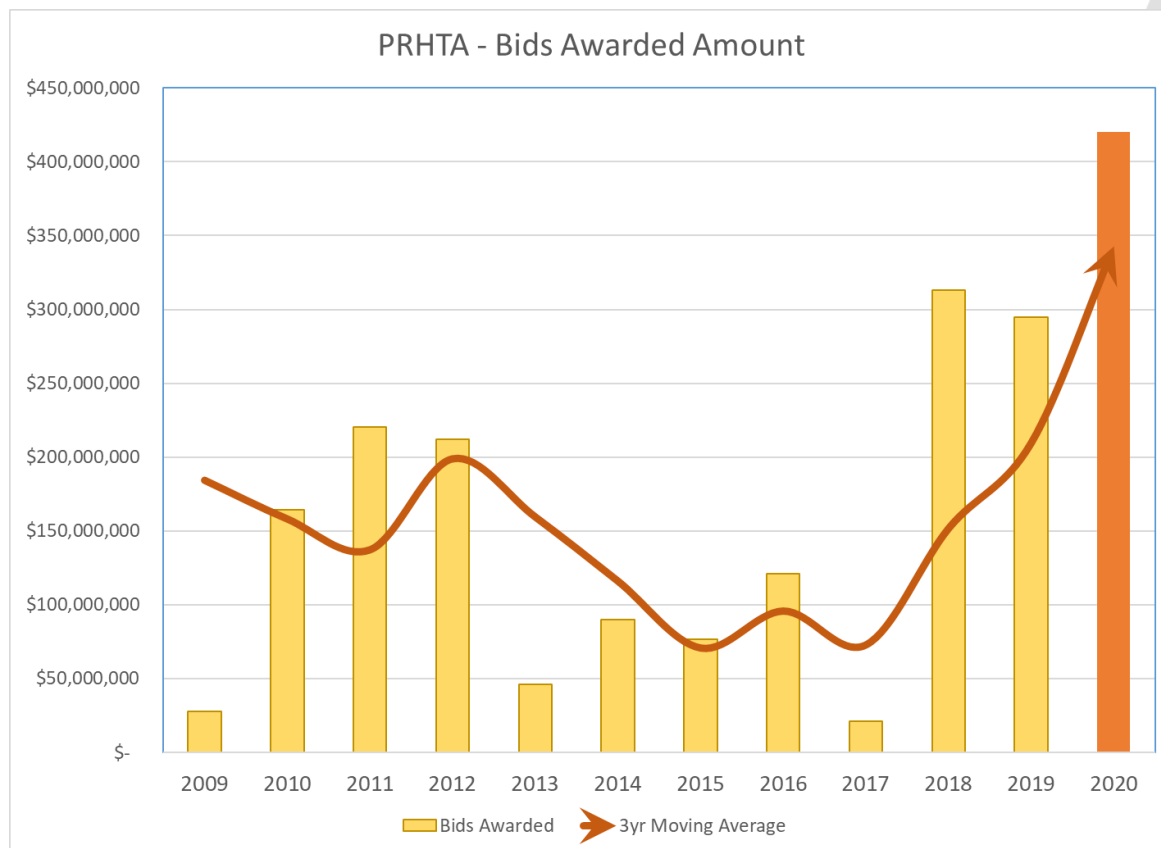
| Program | Focused On: | Investment |
|--|---|------------------------|
| Abriendo Caminos – High Quality Pavement Repair Program | Pavement Repair Island-wide | \$327,000,000 |
| Abriendo Caminos – FHWA Program | Reconstruction of federal Aid Highway System | \$250,000,000 |
| Abriendo Caminos - Programa Estatal de Modernización de Carreteras (PEMOC) | Reconstruction of highways focused on tertiary system (Low AADTs) | \$75,000,000 |
| DTL – Dynamic Toll Lanes from San Juan a Caguas | Managed Lanes with BRT | \$184,000,000 |
| Congestión Relief Program | Reduce congestión on critical interchanges/corridors | \$249,000,000 |
| ER Program (Hurricanes Irma y Maria) | Landslides, Signage, Bridges | \$836,000,000 |
| ER Program (2020 Earthquake) | Hwys, bridges / Miscellaneous Structures | \$40,000,000 |
| | TOTAL | \$1,961,000,000 |



PRHTA: A Historical Perspective

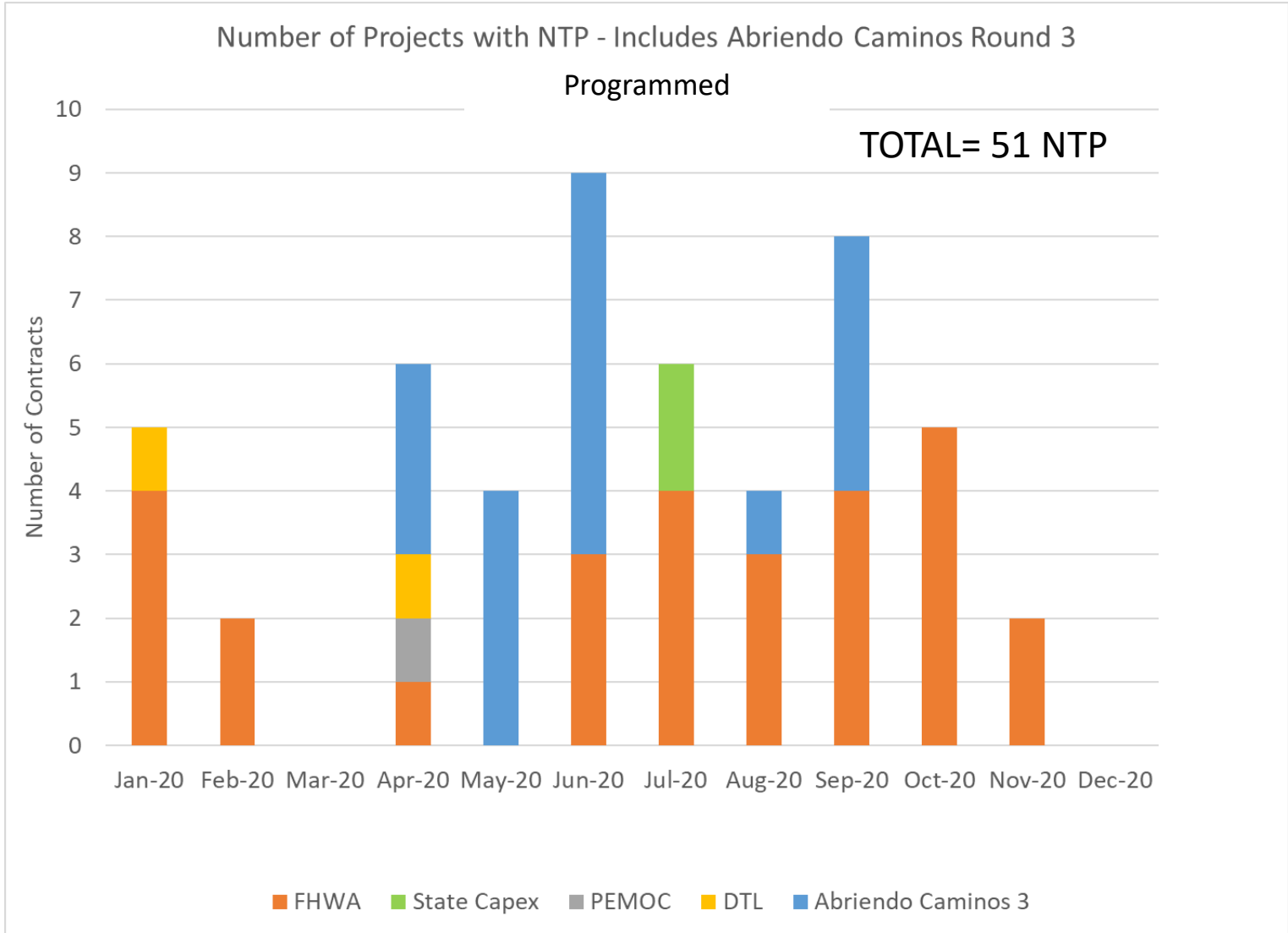
- Historically, PRHTA has been successful at obligating federal funds and using state funds to implement its capital improvement program (CIP) using a combination of external and internal resources
- The clawback of dedicated tax revenues and PR financial crisis resulted in a reduced CIP between 2013 and 2016. The main reason this occurred was due its inability to procure external support for the implementation of the CIP
- In 2017, the CIP could not be implemented due to Hurricane María
- In 2017, the implementation of the MOA and additional fund allocation to procure external support resulted in record amounts in bid awarded in 2018 and 2019, thus, PRHTA is back on track in terms of implementation of its CIP through and enhanced project delivery process and toward a new record in 2020

Historical Bids Awards Data





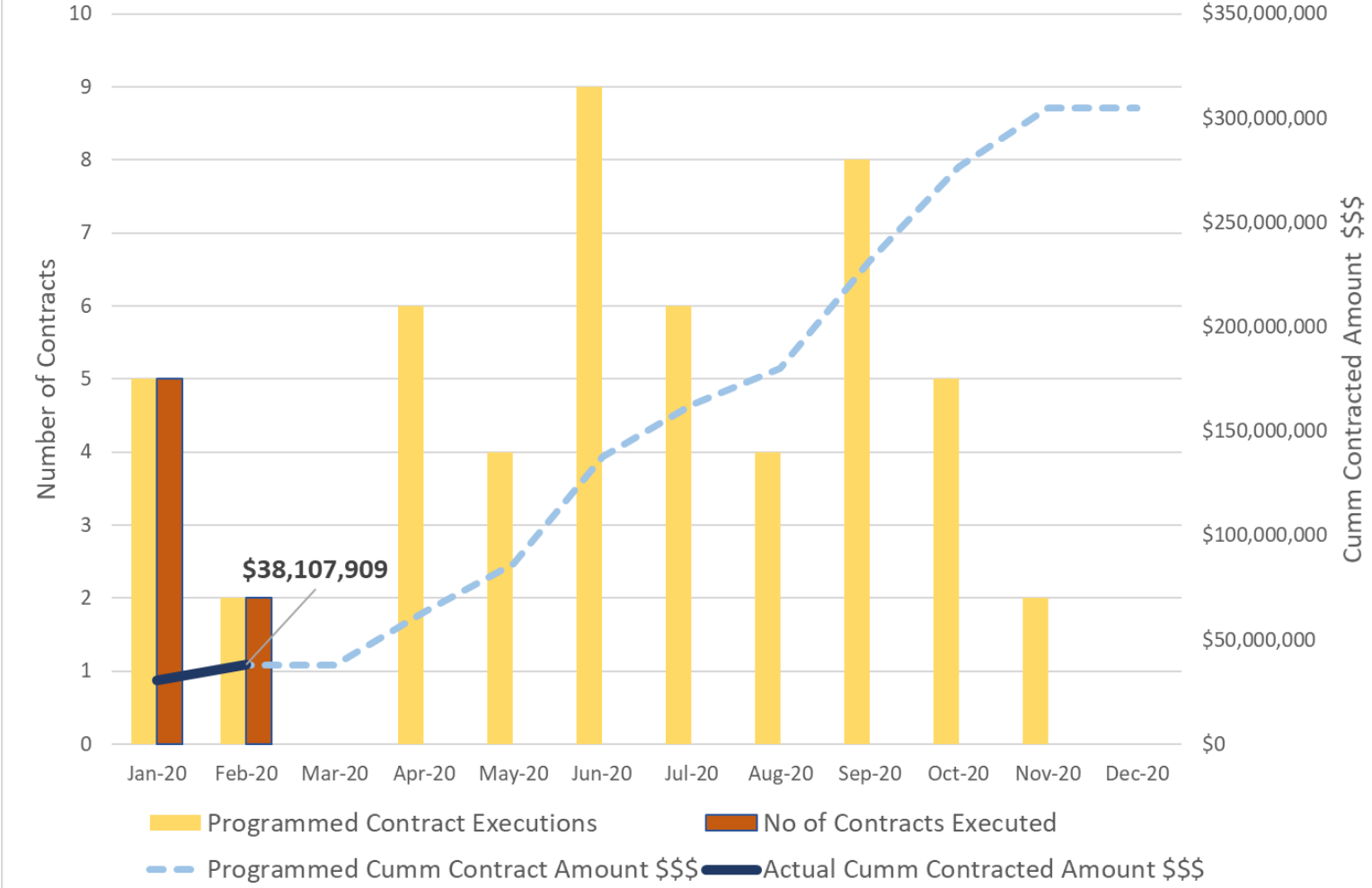
PRHTA 2020 Projections





PRHTA 2020 Projections

**Contract Execution \$\$\$ - Includes Abriendo Caminos Rounds 3
Programmed**

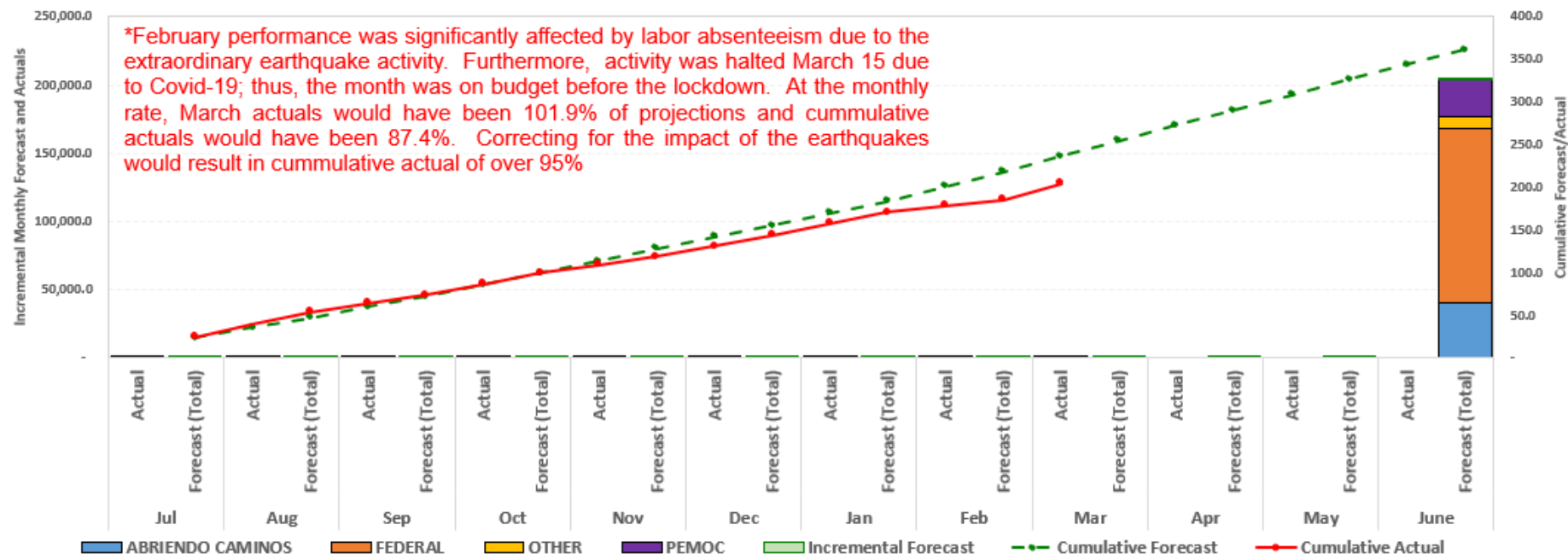




PRHTA: FY20 Towards Record Disbursements

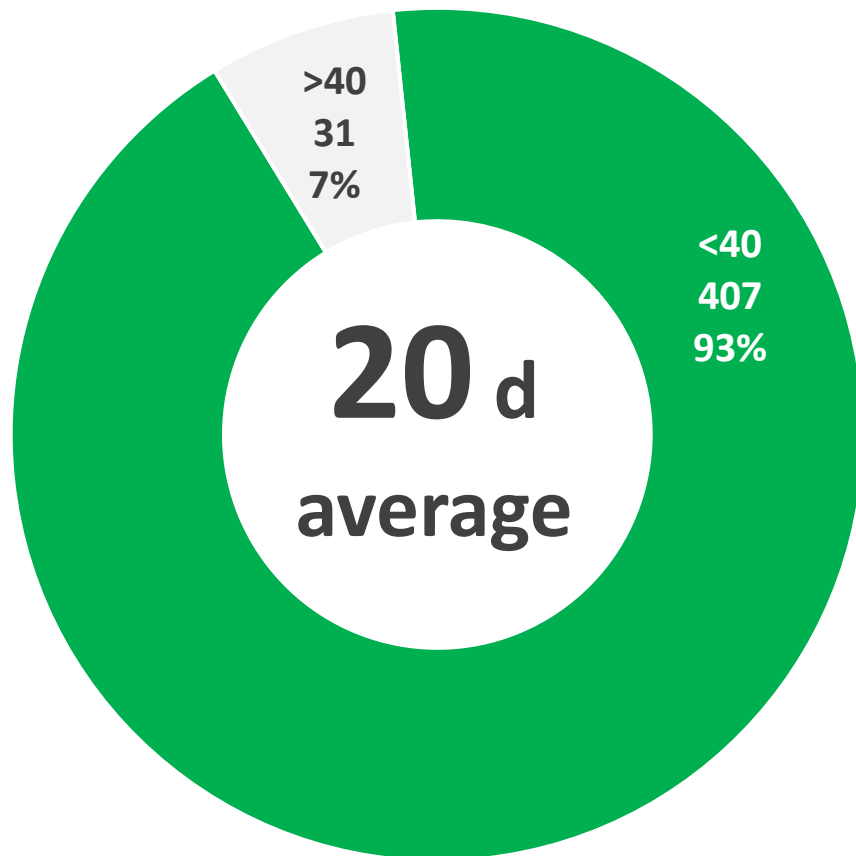
| Overall Program Spending Performance - FY2020 | |
|---|---------------|
| Current Report Period | 3/31/2020 |
| Forecasted Spend through 03/31/2020 | \$254,505,000 |
| Actual Spend through 03/31/2020 | \$204,135,351 |
| % of Forecast Spent through 03/31/2020 | 80.21% |

| Overall Periodic Spend Performance (Million \$) | | | | | | | | | | | | |
|---|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|--------|--------|
| | FY2020 | | | | | | | | | | | |
| | Q1 | | | Q2 | | | Q3 | | | Q4 | | |
| | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb* | Mar* | Apr | May | Jun |
| Forecast | \$23.5 | \$23.5 | \$25.3 | \$27.1 | \$28.9 | \$27.1 | \$28.9 | \$34.3 | \$36.1 | \$36.1 | \$36.1 | \$34.3 |
| Actual | \$24.3 | \$29.3 | \$20.3 | \$25.6 | \$18.9 | \$25.3 | \$27.2 | \$14.7 | \$18.4 | | | |
| Cumulative Actual | \$24.3 | \$53.7 | \$74.0 | \$99.6 | \$118.5 | \$143.8 | \$171.0 | \$185.7 | \$204.1 | | | |
| Cumulative Actual % | 103.7% | 114.4% | 102.5% | 100.4% | 92.5% | 92.7% | 92.9% | 85.0% | 80.2% | | | |

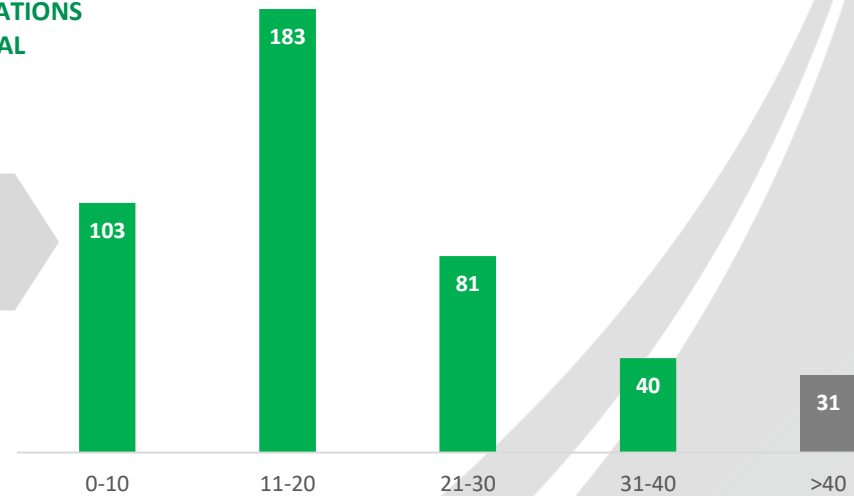




Federal-Aid Billing Process



438
CERTIFICATIONS
TOTAL



* Data after Construction Directive #4-2019 was issued by May 2019

* Days considers since the certification is Received for Review by the Designated Person at Regional Office



Construction Industry Readiness



Mitigation Strategies During Lockdown

- ▶ Most of the Highway Contractors proved to be ahead in the construction industry in terms of readiness to restart construction projects while assuring all measures to avoid COVID spreading are in place.
- ▶ A survey prepared by the PRHTA helped in providing the most needed input from the AGC members.
- ▶ With the input of the Highway Committee, from the AGC, the PRHTA provided guidelines and recommendations to the Governor for a safe restart of the highway construction projects.
- ▶ The PRHTA's projects were selected among the first projects to restart.

THANK YOU!!!!



Mitigation Strategies



Mitigation Strategies During Lockdown

● **Personnel
Activation
(Teleworking)**

● **Disbursement
Process**

● **Resume
Construction
Work /
Operations**



Personnel Activation (Teleworking)

- ▶ Top Management Officials full time teleworking since day 1
- ▶ Teleworking – Activation / IT Support
 - Construction Personnel
 - Finance
 - Pre-intervention Personnel
 - Administration
 - Human Resources
 - Pre-Construction Management / Consulting Services (Design, Environmental)



Disbursement Process

► Directive # 3 – March 31, 2020 – Contractor's Certification Processing

Standard Operating Procedure (SOP) for remotely processing Contractor's Certifications. Defines all steps required for evaluation and approval of the before mentioned documents, considering personnel is teleworking, and in compliance with FHWA requirements.



GOBIERNO DE PUERTO RICO
Autoridad de Carreteras y Transportación

31 de marzo de 2020

DIRECTOR DE AREA DE CONSTRUCCIÓN
DIRECTORES REGIONALES
SUPERVISORES DE AREA
ADMINISTRADORES DE PROYECTOS
OFICIALES DE LIQUIDACION
OFICINA DE PRE-INTERVENCIÓN
OFICINA DE ENLACE FEDERAL
OFICINA DE AUDITORIA INTERNA

Rosana M. Aguilar Zapata, P.E.
Directora Ejecutiva

DIRECTRIZ #3-AÑO 2020
PROCESO PARA EL TRÁMITE DE CERTIFICACIONES DE PAGO DURANTE EL PERIODO DE CESE DE OPERACIONES GUBERNAMENTALES DEBIDO AL ESTADO DE EMERGENCIA DECLARADO POR EL GOBIERNO POR EL COVID-19

El 15 de marzo de 2020 la Gobernadora de Puerto Rico emitió la OE-2020-023 donde instruía al cese de operaciones de operaciones gubernamentales y privados a partir del 15 de marzo hasta el 30 de marzo de 2020 para combatir los efectos del coronavirus (covid-19) y controlar el riesgo de contagio en nuestra isla.



Disbursement Process

► Directive # 4 – April 8, 2020 – For CO and EWO

SOP for remotely processing Change Orders and Extra Work Orders. Defines all steps required for evaluation and approval of the before mentioned documents, considering personnel is teleworking, and in compliance with FHWA requirements.



GOBIERNO DE PUERTO RICO

Autoridad de Carreteras y Transportación

8 de abril de 2020

DIRECTOR ÁREA DE CONSTRUCCIÓN
DIRECTORES REGIONALES
SUPERVISORES DE AREA
ADMINISTRADORES DE PROYECTOS
GERENTES DE PROYECTOS
OFICINA DE COMPRAS
OFICINA DE PRESUPUESTO
OFICINA DE ENLACE FEDERAL
OFICINA DE AUDITORIA INTERNA

Rosana M. Aguilar Zapata
Directora Ejecutiva

DIRECTRIZ #4-AÑO 2020

PROCESO PARA EL TRÁMITE DE ÓRDENES DE CAMBIO Y EXTRA WORK ORDERS DURANTE EL PERIODO DE CESE DE OPERACIONES GUBERNAMENTALES DEBIDO AL ESTADO DE EMERGENCIA DECLARADO POR EL GOBIERNO POR EL COVID-19

El 15 de marzo de 2020 la Gobernadora de Puerto Rico emitió la OE-2020-023 donde instruía al cese de operaciones de operaciones gubernamentales y privados a partir del 15 de marzo hasta el 30 de marzo de 2020 para combatir los efectos del coronavirus (covid-19) y controlar el riesgo de contagio en nuestra isla.



Disbursement Process

► Directive # 5 – April 9, 2020 – Remotely Processing Consultants' Invoices

SOP for remotely processing invoices from consultants providing services to the PRHTA.



GOBIERNO DE PUERTO RICO
Autoridad de Carreteras y Transportación

9 de abril de 2020

DIRECTORES DE ÁREA
JEFES DE OFICINA DE INGENIERÍA
GERENTES DE PROYECTOS
OFICINA DE PRE-INTERVENCIÓN
OFICINA DE ENLACE FEDERAL
OFICINA DE AUDITORIA INTERNA

Rosana M. Aguilar Zapata
Directora Ejecutiva

DIRECTRIZ #5-Año 2020

PROCESO PARA EL TRÁMITE DE FACTURAS DE CONSULTORES Y PROVEEDORES DE SERVICIOS DURANTE EL PERIODO DE CESE DE OPERACIONES GUBERNAMENTALES DEBIDO AL ESTADO DE EMERGENCIA DECLARADO POR EL GOBIERNO POR EL COVID-19

El 15 de marzo de 2020 la Gobernadora de Puerto Rico emitió la OE-2020-023 donde instruyó al cese de operaciones de operaciones gubernamentales y privados a partir del 15 de marzo hasta el 30 de marzo de 2020 para combatir los efectos del coronavirus (covid-19) y controlar el riesgo de contagio en nuestra isla.



Disbursement Process

► Directive # 6 – April 14, 2020 – Materials Certifications

SOP for remotely processing the Initial Certificate of Compliance and the Contractor Quality Control Certification for Material Testing.



GOBIERNO DE PUERTO RICO
Autoridad de Carreteras y Transportación

14 de abril de 2020

DIRECTORES REGIONALES
SUPERVISORES DE ÁREA
ADMINISTRADORES DE PROYECTO
OFICIALES DE LIQUIDACIÓN

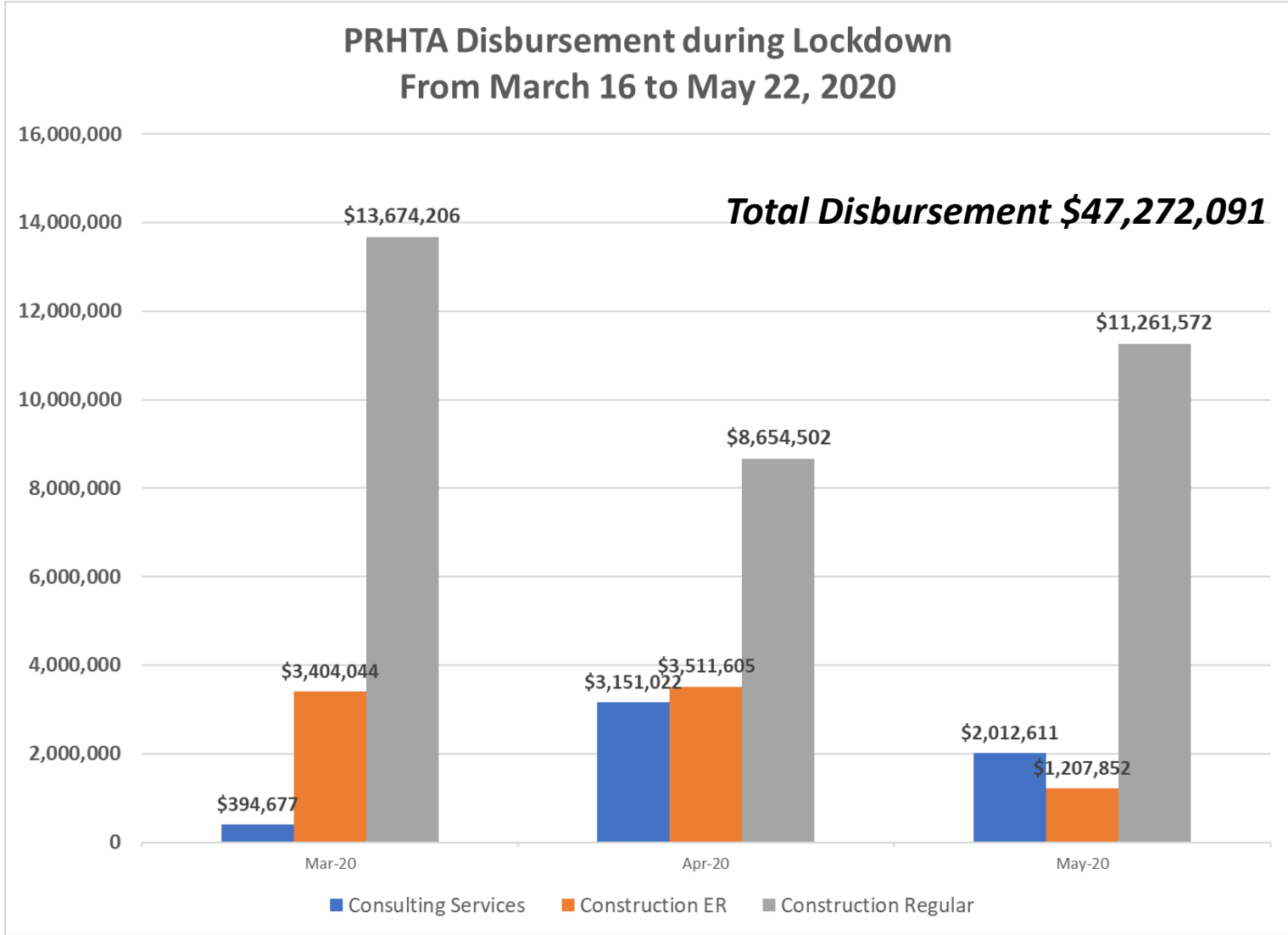
Eduardo F. Ruiz Vélez, P.E.
Director
Área de Construcción

DIRECTRIZ #6-AÑO 2020
PROCESO PARA EL TRÁMITE DE CERTIFICADOS DE MATERIALES PARA CERTIFICACIONES DE PAGO DURANTE EL PERIODO DE Cese DE OPERACIONES GUBERNAMENTALES DEBIDO AL ESTADO DE EMERGENCIA DECLARADO POR EL GOBIERNO POR EL COVID-19

El 15 de marzo de 2020 la Gobernadora de Puerto Rico emitió la OE-2020-023 donde instruía al cese de operaciones de operaciones gubernamentales y privados a partir del 15 de marzo hasta el 30 de marzo de 2020 para combatir los efectos del coronavirus (covid-19) y controlar el riesgo de contagio en nuestra isla.



Disbursement Results (From March 16, 2020 thru May 22, 2020)





Other Initiatives - Resume Construction Work / Operation

- ▶ Ongoing Process
- ▶ “Plan de Control de Exposición” a COVID-19 for PRHTA facilities, including:
 - Central Offices
 - Material Testing Office
 - Construction Area



GOBIERNO DE PUERTO RICO
Departamento de Transportación y Obras Públicas
Autoridad de Carreteras y Transportación

**PROTOCOLO Y PLAN DE CONTINGENCIA EN PROTECCIÓN
DE LOS EMPLEADOS Y VISITANTES ANTE EL
CORONAVIRUS (COVID-19)**



Other Initiatives - Pre-Construction Workflow / Processes

- ▶ Consultants Teleworking Plan – For management / general consulting services
- ▶ Designers working at an average 50% capacity before May 11, 2020. Steadily increasing capacity thereafter.
- ▶ Closely coordinating with FHWA for PS&E approval and having ready bid packages.
- ▶ Coordinating final steps with EFLHD for Signage & Safety Projects. Bid announcement starting within the next three months.



Other Initiatives – Bid Process

- ▶ Purchase of Bid Packages at the Treasurer Office on 7th Floor (Minillas South Bldg), Tuesday to Friday, from 9am to 2pm.
- ▶ Bidders to submit evidence of payment via email to the Board of Awards: juntasubastas@dtop.pr.gov, including bid number.
- ▶ Boards of Award will send bid package by email.
- ▶
- ▶ Pre-Bid meeting will be held using video conference (Webex). PRHTA will send a meeting request with instructions.
- ▶ Bidders will submit their proposal package (hard copy) to the Board of Award office, located on the 11th floor, Suite 1103 of Roberto Sánchez Vilella Government Center, on the date and time indicated.
- ▶ Board of award will send a meeting request to bidders (video conference using Webex) with instructions for the bid opening and reading outload the results.



2020 Bid Program

- ▶ Abriendo Caminos - Resuming damage assessments and preparing Bid Packages
- ▶ Continue geotechnical investigations, surveying, lead and asbestos studies, environmental studies for the regular CIP projects.
- ▶ Starting the WTBP development for Critical bridges repair / Earthquake ER repairs
- ▶ Final PS&E review for Accelerated Reconstruction Program
- ▶ Coordinating with regulatory agencies issuing permits/endorsements



2020 Bid Program (ABRIENDO CAMINOS – ROUND 3)

| AC Code | Description | Region | Estimate from Engineer |
|-----------|--|--------|------------------------|
| AC-000314 | Abriendo caminos Ronda 3 - PR-908, PR-181, PR-964, PR-7787, PR-956, PR-3 | East | \$ 4,607,500.00 |
| AC-000315 | Abriendo caminos Ronda 3 - PR-842, PR-831, PR-845, PR-8869, PR-176, PR-39, PR-41 | Metro | \$ 4,073,662.52 |
| AC-000316 | Abriendo caminos Ronda 3 - PR-2, PR-146, PR-159, PR-137, PR-164, PR-686, PR-615, PR-111, PR-647 | North | \$ 7,480,278.53 |
| AC-000317 | Abriendo caminos Ronda 3 - PR-139, PR-372, PR-140, PR-3375, PR-3, PR-545, PR-378, PR-565 | South | \$ 5,681,475.86 |
| AC-000318 | Abriendo caminos Ronda 3 - PR-116, PR-422, PR-3301, PR-368, PR-429, PR-103, PR-426, PR-345, PR-362, PR-121 | West | \$ 7,979,767.30 |
| AC-000319 | Abriendo caminos Ronda 3 - PR-777, PR-188, PR-978, PR-171, PR-987, PR-946, PR-9966, PR-985, PR-181, PR-31, PR-935, PR-7761, PR-902 | East | \$ 6,141,750.00 |
| AC-000321 | Abriendo Caminos Ronda 3 - PR-814, PR-770, PR-693, PR-819, PR-872, PR-140, PR-854, PR-808, PR-769, PR-667, PR-677 | North | \$ 4,332,000.00 |
| AC-000322 | Abriendo caminos Ronda 3 - PR-772, PR-703, PR-452, PR-7752, PR-375, PR-3372, PR-3336, PR-5141, PR-557, PR-512, PR-386, PR-5520 | South | \$ 4,541,000.00 |
| AC-000323 | Abriendo caminos Ronda 3 - PR-109, PR-117, PR-120, PR-414, PR-434, PR-343, PR-365, PR-317 | West | \$ 4,835,500.00 |
| AC-000324 | Abriendo Caminos Ronda 3 - PR-634, PR-622, PR-8809, PR-531, PR-129, PR-647, PR-487 | North | \$ 6,297,550.00 |
| AC-000326 | Abriendo caminos Ronda 3 - PR-492, PR-8809, PR-681, PR-134, PR-622, PR685, PR-621, PR635, PR-531, PR-129, PR-647, PR-656, PR-487, PR-134 | North | \$ 6,027,750.00 |



2020 Bid Program (Regular FHWA Program)

| AC Code | Description | Region | Estimate from Engineer |
|-----------|--|--------|------------------------|
| AC-000814 | Highway Safety Improvements of PR-8 from km. 0.00 to km. 4.6, San Juan | Metro | \$ 4,819,491.09 |
| AC-005384 | Pavement Rehabilitation and Reconstruction of PR-53 from km. 86.863 to km. 94.0 Fase II, Guayama-Salinas | South | \$ 16,767,480.70 |
| AC-005386 | Pavement Rehabilitation and Reconstruction of PR-53 form km. 81.0 to km. 86.862 Fase 1, Guayama-Salinas | South | \$ 11,635,425.15 |
| AC-010166 | Construction of Recreational Trail for Bycycles and Pedestrians from Río Bayamón to PR-165, Toa Baja | North | \$ 4,508,477.80 |
| AC-010266 | Bridge 1096 Replacement | West | \$ 5,643,692.00 |
| AC-012331 | Pavement Rehabilitation and Reconstruction of PR-123 from Km. 38.0 to Km. 48.0, Ututado | North | \$ 3,307,429.81 |
| AC-017630 | Highway Safety Improvements of PR-176 from Km. 0.0 to Km. 4.0, San Juan | Metro | \$ 4,834,516.05 |
| AC-018348 | Highway Safety Improvements of PR-183 from km 1.2 to km 10.0, Caguas-San Lorenzo | East | \$ 8,050,000.00 |
| AC-018932 | Pavement Rehabilitation and Reconstruction of PR-189 from km. 0.0 to km. 13.0, Caguas-Gurabo-Juncos | East | \$ 5,327,324.12 |
| AC-020311 | Highway Safety Improvements of PR-203 from km 0.0 to km 7.1, Gurabo-San Lorenzo | East | \$ 10,120,000.00 |



2020 Bid Program (Other Programs)

| AC Code | Description | Region | Estimate from Engineer |
|-----------|--|--------|------------------------|
| AC-200309 | Traffic signal at intersection of PR-2 and PR-419, Aguada | West | \$ 700,000.00 |
| AC-200310 | Traffic signal at intersection of PR-2 and PR-650, Arecibo | North | \$ 435,000.00 |

- ▶ ER – Lighting Improvements (PR-52, PR-18, PR-26, PR-53, PR-30) - \$21MM
- ▶ Signage and Safety (PR-53, PR-54, PR-18, PR-26) - \$8MM
- ▶ Minor Landslides / Karen Storm WTBPs - \$7.5MM
- ▶ January 2020 Earthquake Emergency Repairs WTBPs - \$8MM



Start of Activities May 11, 2020

- ▶ HTA successfully implemented safety procedures to adequately start inspection and material testing work.
- ▶ HTA has implemented the expeditious approval of time extensions of 56 days for every project bringing the projects to the Pre-Covid-19 situation. Contract amendments ongoing.



Thank You