

**YUMA INTERNATIONAL AIRPORT, YUMA, ARIZONA**  
**FAA AIP 3-04-0053-049-2024**  
**Taxiway F1 Rehabilitation**  
**ADDENDUM NO. 3**

May 24, 2024

This addendum forms a part of the Contract Documents for the above identified project and modifies the original specifications and plans as noted below. Portions of the contract not specifically mentioned in this Addendum remain in force:

1. The following questions were emailed and are answered as follows:

**A. Question:** What is the make and model of existing Main Distribution Panel DP so we can price the New 150A/2p Breaker?

**Answer:** The main distribution panel "DP" is an Eaton Pow-R-Line Switchboard, 3000A, 208/120V, 3 phase, 4-wire, 60 Hz. The Eaton G.O. numbers is SPX0274275. The switchboard consists of three sections rated at 65,000 AIC RMS each. The first section contains the incoming service and main circuit breaker. The second sections consists of an automatic transfer switch and the third section is the distribution panelboard section. The distribution circuit breakers are Eaton rated for 65,000 AIC RMS. Circuit breaker part numbers were not visible.

The main circuit breaker being an Eaton Magnum SBS630, 3000 Amp Frame with a Digitrip 520 5LSI trip unit with 2500A (In) trip module. The Digitrip settings are as follows:

- Long Delay = 1.0
- Long Delay Time @ 6 Ir = 4 (Ir = Inx Long Delay)
- Short Delay Setting = 3
- Short Delay Time = 0.3
- Instantaneous = 4

**B. Question:** Can recycled material be used for ABC [Item P-209]?

**Answer:** Recycled material cannot be used for Item P-209. However, recycled material can be used for Item P-154 Subbase Course as long as the material meets the gradation, quality, and consistency requirements outlined in section 154-2.1 Materials of the Project Manual.

**C. Question:** If the asphalt supplier has an asphalt mix design that meets the project requirements including the binder, can that be submitted, or will the contractor have to submit a complete new Job Mix Formula (JMF) specifically for this project?

**Answer:** It is anticipated that a new JMF will be required for this project. Please reference section 401-3.3 Job Mix Formula (JMF) of the Project Manual, which

states, "Mix designs that are not dated or which are from a prior construction season shall not be accepted."

2. The following are clarifications:

- A. Associated work noted in the Electrical Plans along the access road north of Taxiway F1 and within MCAS is not assigned to a specific phase and can be completed by the selected contractor during any phase. However, all work within this area shall be coordinated with the RPR and Airport Operations 14 days prior to commencing.
- B. The Bid Opening time and location remain as originally stipulated. The time being **10:00 a.m. local time** on **Wednesday, May 29, 2024** and location being the YCAA Administration Office, Second Floor, 2191 E. 32nd Street, Yuma, Arizona 85365.

3. The following are changes to the **PLANS**.

- A. Sheet C-401 of the Construction Plans has been amended. Delete Sheet C-401 from the bid set stamped with date 4/29/2024 and replace it with the attached Revised Sheet C-401 stamped with date 05/21/2024. The Revised Sheet C-401 revises notes for Detail E and Detail F.

Revised Sheet C-401 updates Detail E to clarify the preparation of the top six (6) inches of the existing P-209 along the noted detailed sections. Detail E relates to Bid Item P-209a, quantified in square yards (SY). The contractor is responsible for preparation, grading, and any P-209 material required to meet grades as detailed in construction plans.

- B. Listed below are corrections to Sheets ES-102, ES-104, ES-401, ES-501, and E-601 of the Construction Plans.
  - i. On sheet ES-102, lights F1.14, F1.63 and F1.66 the correct keynote should be "3" and not "4".
  - ii. On sheet ES-104, the correct keynote for the road work should be "5" and not "4".
  - iii. On Sheet ES-401, add light fixture F1.78 L-852T between F1.77 and F1.1
  - iv. Detail 2-E501 should read L-861T and not L-852T.
  - v. On sheet E-601, add light fixture to schedule as follows: F1.78, ---10' EDGE, L-852, BLUE, LED, 2, ---, 1 (6.6a), L-868, 1B, B, 24", 2" COUPLING, 2 / 0 °, 90°, 2" COUPLING.

4. The following are changes to the **SPECS**.

- A. Item C-102 Temporary Air and Water Pollution, Soil Erosion, and Siltation Control

Delete Specification C-102 and replace it with the attached **Specification C-102 Temporary Air and Water Pollution, Soil Erosion, and Siltation Control [REVISED]**. The revised specification includes the Storm Water Pollution Prevention Plan (SWPPP) requirements for this project.

- B. Item P-620 Runway and Taxiway Marking

Delete Section 620-2.2 from Specification P-620 and replace it with the **REVISED Section 620-2.2 Markings Materials**. The revised section is noted below:

**REVISED 620-2.2 Marking Materials**

Table 1. Marking Materials

Paint <sup>1</sup>				Glass Beads <sup>2</sup>	
Type	Color	Fed Std. 595 Number	Application Rate Maximum	Type	Application Rate Minimum
Waterborne (Type II)	Yellow	33583	115 ft <sup>2</sup> /gal (1.4 m <sup>2</sup> /l)	III	10 lb/gal
Waterborne (Type II)	Black	37038	115 ft <sup>2</sup> /gal (1.4 m <sup>2</sup> /l)	<b>No Beads</b>	
Waterborne (Type II)	White	37925	115 ft <sup>2</sup> /gal (1.4 m <sup>2</sup> /l)	III	10 lb/gal
Waterborne (Type II)	Red	37925	115 ft <sup>2</sup> /gal (1.4 m <sup>2</sup> /l)	I	5 lb/gal

<sup>1</sup> See paragraph 620-2.2a

<sup>2</sup> See paragraph 620-2.2b

**a. Paint.** Paint shall be waterborne in accordance with the requirements of this paragraph. Paint colors shall comply with Federal Standard No. 595.

**Waterborne.** Paint shall meet the requirements of Federal Specification TT-P-1952F, Type II. The non-volatile portion of the vehicle for all paint types shall be composed of a 100% acrylic polymer as determined by infrared spectral analysis.

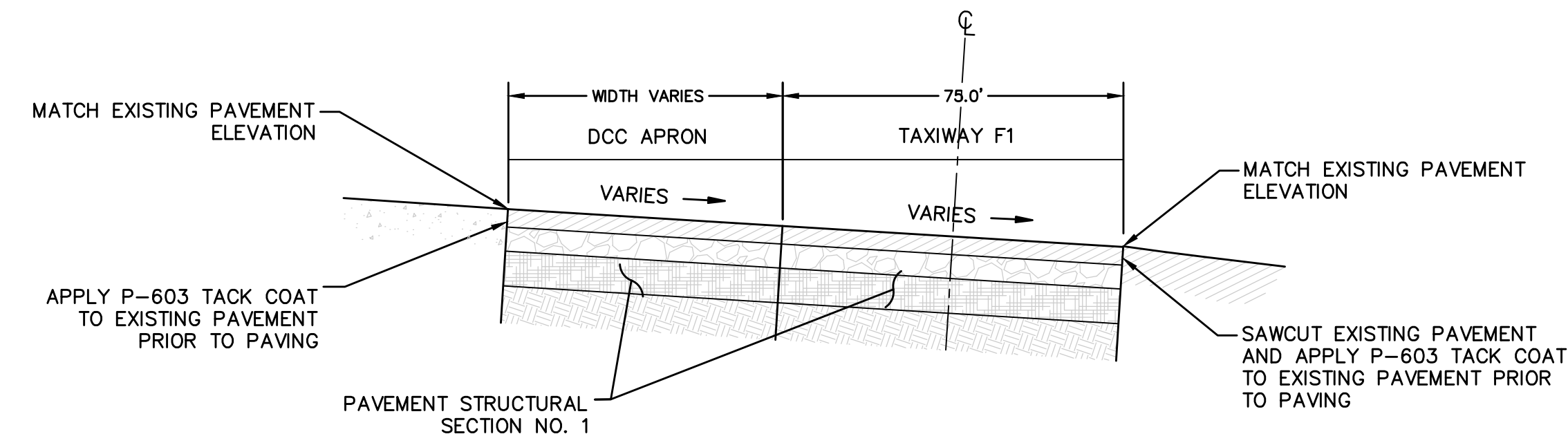
**b. Reflective media.** Glass beads for white and yellow paint shall meet the requirements for Federal Specification TT-B-1325D Type III Glass beads for red and pink paint shall meet the requirements for Type I, Gradation A. Glass beads shall be treated with all compatible coupling agents recommended by the manufacturers of the paint and reflective media to ensure adhesion and embedment. Glass beads shall not be used in black and green paint. Type III glass beads shall not be used in red and pink paint. Glass beads shall not be used in black paint.

All bidders shall acknowledge all addendums.

Regards,



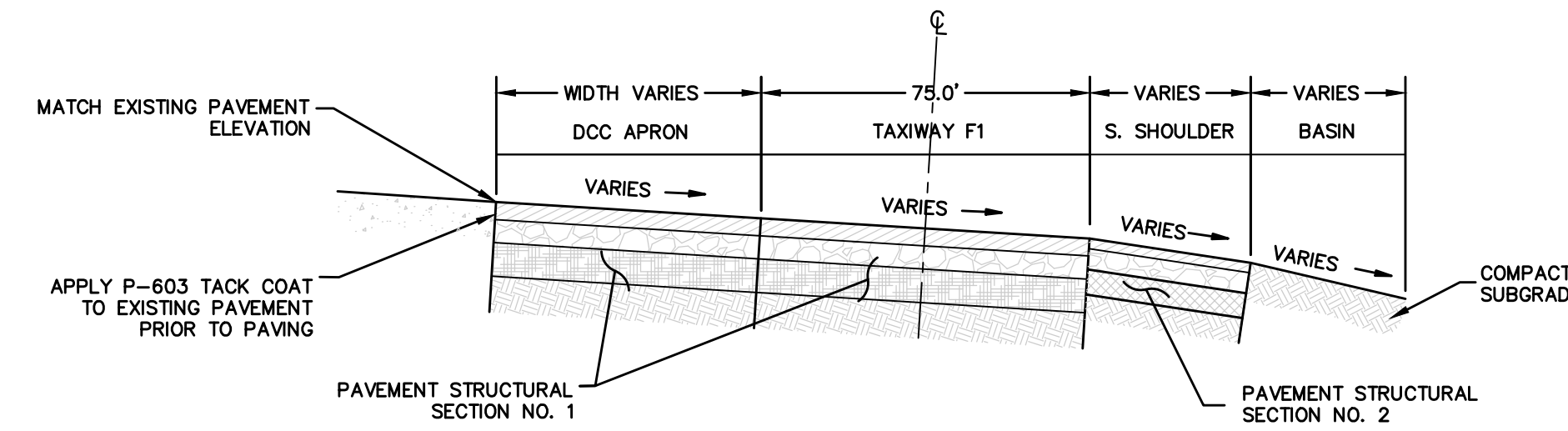
Antonio Alvarez, PE  
Vice President



**TYPICAL TAXIWAY SECTION STA 10+00 TO 18+95.05**

N.T.S. & GRADES PER PLAN

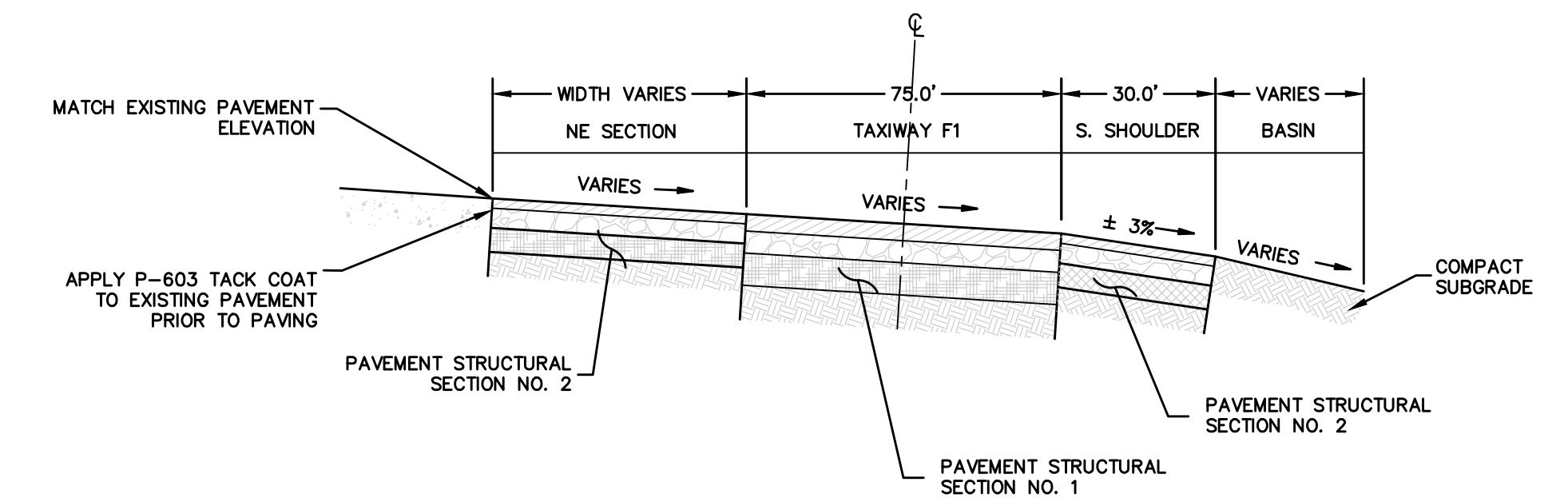
**A**  
**C401**



**TYPICAL TAXIWAY SECTION STA 18+95.05 TO 19+24.91**

N.T.S. & GRADES PER PLAN

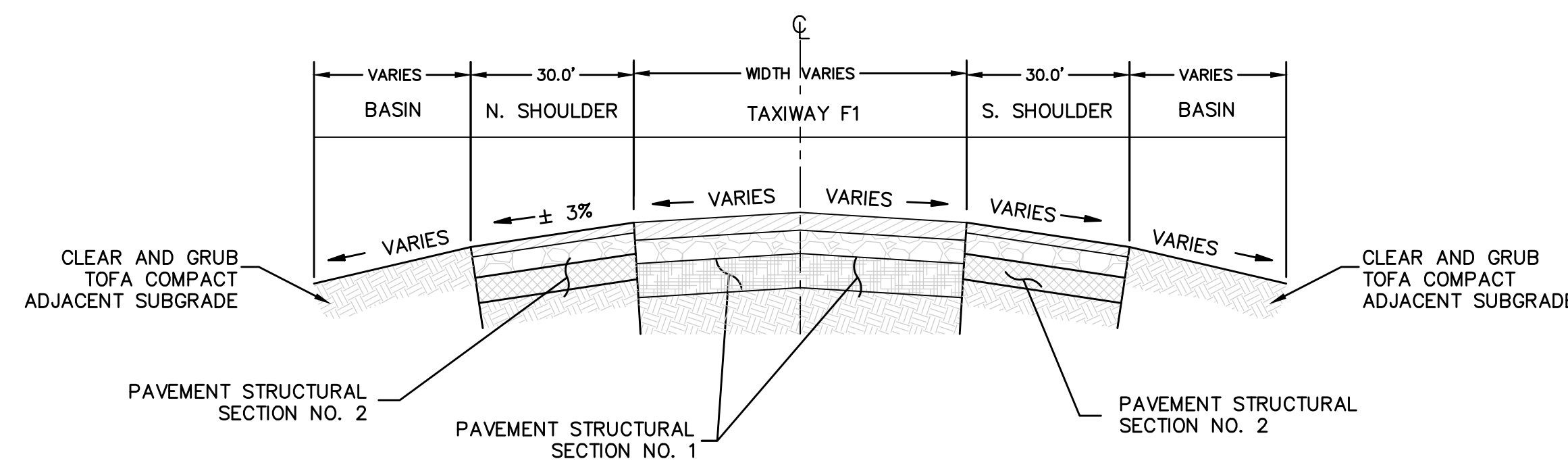
**B**  
**C401**



**TYPICAL TAXIWAY SECTION - STA 19+24.91 TO STA 19+17.07**

N.T.S. & GRADES PER PLAN

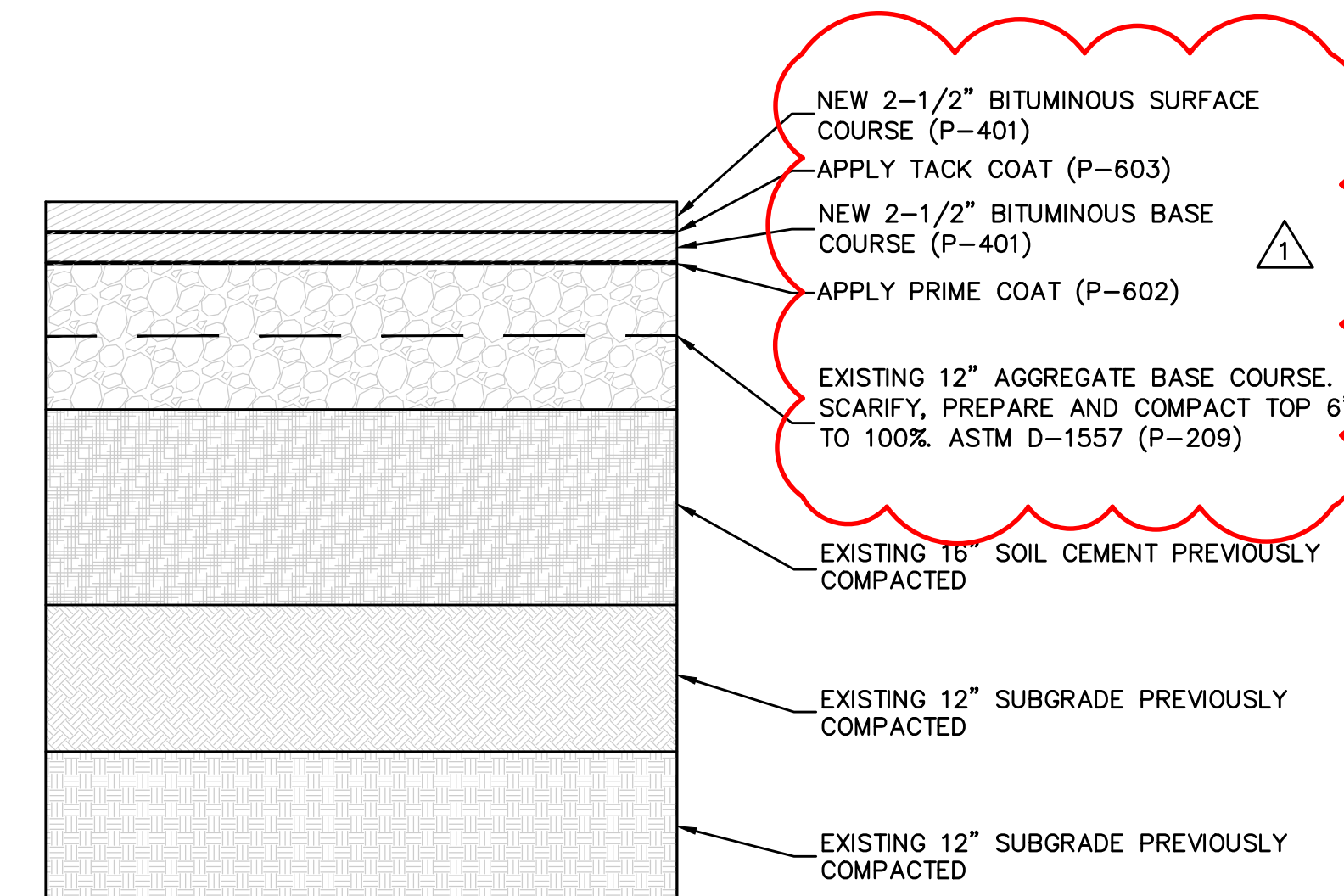
**C**  
**C401**



**TYPICAL TAXIWAY SECTION - STA 20+49.20 TO INTERSECTION W/ RWY 21R-3L**

N.T.S. & GRADES PER PLAN

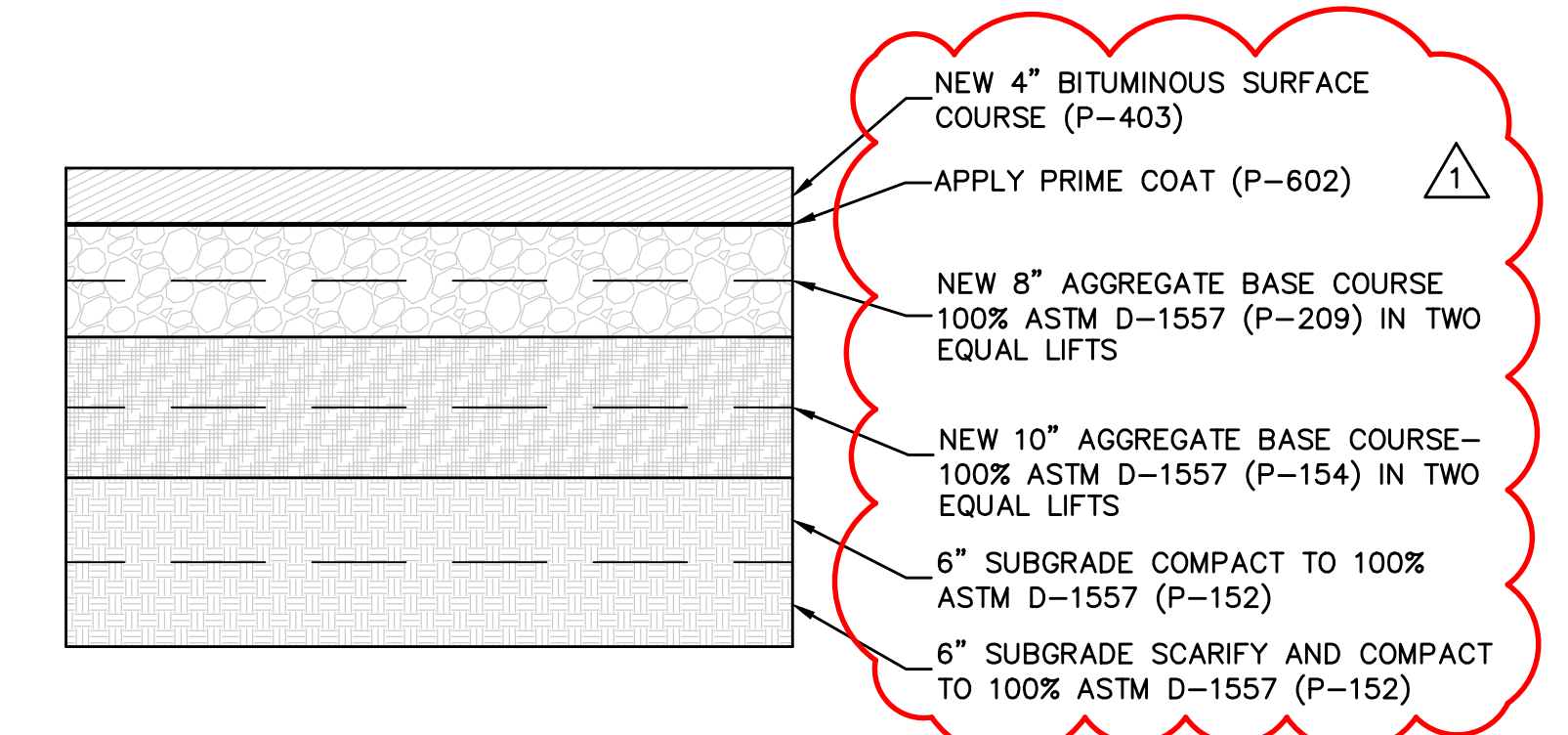
**D**  
**C401**



**PAVEMENT STRUCTURAL SECTION NO. 1 [TAXIWAY F1 & N. APRON]**

NTS

**E**  
**C401**



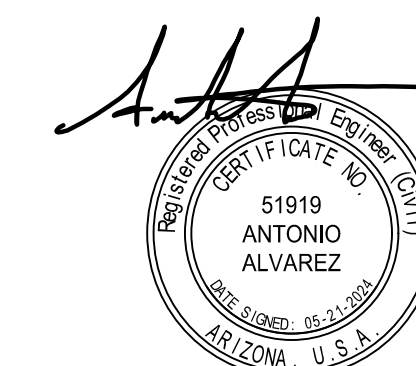
**PAVEMENT STRUCTURAL SECTION NO. 2 [SHOULDERS, NW SECTION, & NE SECTION]**

NTS

**F**  
**C401**

**UTILITY WARNING**

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR AND ENGINEER OF RECORD MAKE NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR AND ENGINEER OF RECORD FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR AND ENGINEER OF RECORD HAVE NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.



**ADDENDUM NO. 3**

<b>TAXIWAY F1 REHABILITATION</b>	
<b>TYPICAL CROSS SECTIONS &amp; PAVEMENT STRUCTURAL SECTIONS</b>	
<b>NICKLAUS ENGINEERING, INC.</b>	
1851 West 24th Street Yuma, Arizona 85364 Phone: (928) 344-8374 www.neiaw.com	
SCALE: AS SHOWN DATE: APRIL, 2024 DES. BY: STAFF DRAWN BY: JMC SURVEYED BY: DSE JOB. No.: 023-0005 SHEET 26 OF 47	<b>C401</b>

N:\2023\023-0005\0000\_Taxiway F1 Rehabilitation\02\_Civil\02 - Drawings\023-0005\_Taxiway F1 Rehabilitation\_100%\_dwg

REVISIONS			
#	DATE	DESCRIPTION	
1	5/21/2024	REVISED AND ADDED PAVEMENT STRUCTURAL SECTIONS NOTES.	AA

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE. REUSE, REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS WITH THE ENGINEER. WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

**Item C-102 Temporary Air and Water Pollution, Soil Erosion, and Siltation Control  
[REVISED]**

**102-1.** This item shall consist of temporary control measures as shown on the plans or as ordered by the Resident Project Representative (RPR) during the life of a contract to control pollution of air and water, soil erosion, and siltation through the use of silt fences, berms, dikes, dams, sediment basins, fiber mats, gravel, mulches, grasses, slope drains, and other erosion control devices or methods. Control measures shall also be in accordance with the Storm Water Pollution Prevention Plan (SWPPP) developed by the contractor and accepted by the RPR.

Temporary erosion control shall be in accordance with the approved erosion control plan; the approved Construction Safety and Phasing Plan (CSPP) and AC 150/5370-2, *Operational Safety on Airports During Construction*. The temporary erosion control measures contained herein shall be coordinated with the permanent erosion control measures specified as part of this contract to the extent practical to assure economical, effective, and continuous erosion control throughout the construction period.

Temporary control may include work outside the construction limits such as borrow pit operations, equipment and material storage sites, waste areas, and temporary plant sites.

Temporary control measures shall be designed, installed and maintained to minimize the creation of wildlife attractants that have the potential to attract hazardous wildlife on or near public-use airports.

**102-1.2** This project is subject to the terms and conditions of Arizona Pollutant Discharge Elimination System (AZPDES) General Permit No. AZG2020-001 for Storm Water Discharges Associated with Construction Activities (2020 CGP). Under the provisions of the 2020 CGP, both the County and the Contractor shall be designated as operators, and both must ensure compliance with the terms and conditions contained therein. Work under this item shall consist of preparing all required documents and certifications, performing inspections, and furnishing all materials, labor, and equipment necessary to comply with all requirements of 2020 CGP.

**MATERIALS**

**102-2.1 Grass.** Grass that will not compete with the grasses sown later for permanent cover per Item T-901 shall be a quick-growing species (such as ryegrass, Italian ryegrass, or cereal grasses) suitable to the area providing a temporary cover. Selected grass species shall not create a wildlife attractant.

**102-2.2 Mulches.** Mulches may be hay, straw, fiber mats, netting, bark, wood chips, or other suitable material reasonably clean and free of noxious weeds and deleterious materials per Item T-908. Mulches shall not create a wildlife attractant.

**102-2.3 Fertilizer.** Fertilizer shall be a standard commercial grade and shall conform to all federal and state regulations and to the standards of the Association of Official Agricultural Chemists.

**102-2.4 Slope drains.** Slope drains may be constructed of pipe, fiber mats, rubble, concrete, asphalt, or other materials that will adequately control erosion.

**102-2.5 Silt fence.** Silt fence shall consist of polymeric filaments which are formed into a stable network such that filaments retain their relative positions. Synthetic filter fabric shall contain ultraviolet ray inhibitors and stabilizers to provide a minimum of six months of expected usable construction life. Silt fence shall meet the requirements of ASTM D6461.

**102-2.6 Other.** All other materials shall meet commercial grade standards and shall be approved by the RPR before being incorporated into the project.

## CONSTRUCTION REQUIREMENTS

**102-3.1 General.** In the event of conflict between these requirements and pollution control laws, rules, or regulations of other federal, state, or local agencies, the more restrictive laws, rules, or regulations shall apply.

The RPR shall be responsible for assuring compliance to the extent that construction practices, construction operations, and construction work are involved.

**102-3.2 Schedule.** Prior to the start of construction, the Contractor shall submit schedules in accordance with the approved Construction Safety and Phasing Plan (CSPP) and the plans for accomplishment of temporary and permanent erosion control work for clearing and grubbing; grading; construction; paving; and structures at watercourses. The Contractor shall also submit a proposed method of erosion and dust control on haul roads and borrow pits and a plan for disposal of waste materials. Work shall not be started until the erosion control schedules and methods of operation for the applicable construction have been accepted by the RPR.

**102-3.3 Construction details.** The Contractor will be required to incorporate all permanent erosion control features into the project at the earliest practicable time as outlined in the plans and approved CSPP. Except where future construction operations will damage slopes, the Contractor shall perform the permanent seeding and mulching and other specified slope protection work in stages, as soon as substantial areas of exposed slopes can be made available. Temporary erosion and pollution control measures will be used to correct conditions that develop during construction that were not foreseen during the design stage; that are needed prior to installation of permanent control features; or that are needed temporarily to control erosion that develops during normal construction practices, but are not associated with permanent control features on the project.

Where erosion may be a problem, schedule and perform clearing and grubbing operations so that grading operations and permanent erosion control features can follow immediately if project conditions permit. Temporary erosion control measures are required if permanent measures cannot immediately follow grading operations. The RPR shall limit the area of clearing and grubbing, excavation, borrow, and embankment operations in progress, commensurate with the



Contractor's capability and progress in keeping the finish grading, mulching, seeding, and other such permanent control measures current with the accepted schedule. If seasonal limitations make such coordination unrealistic, temporary erosion control measures shall be taken immediately to the extent feasible and justified as directed by the RPR.

The Contractor shall provide immediate permanent or temporary pollution control measures to minimize contamination of adjacent streams or other watercourses, lakes, ponds, or other areas of water impoundment as directed by the RPR. If temporary erosion and pollution control measures are required due to the Contractor's negligence, carelessness, or failure to install permanent controls as a part of the work as scheduled or directed by the RPR, the work shall be performed by the Contractor and the cost shall be incidental to this item.

The RPR may increase or decrease the area of erodible earth material that can be exposed at any time based on an analysis of project conditions.

The erosion control features installed by the Contractor shall be maintained by the Contractor during the construction period.

Provide temporary structures whenever construction equipment must cross watercourses at frequent intervals. Pollutants such as fuels, lubricants, bitumen, raw sewage, wash water from concrete mixing operations, and other harmful materials shall not be discharged into any waterways, impoundments or into natural or manmade channels.

**102-3.4 Installation, maintenance and removal of silt fence.** Silt fences shall extend a minimum of 16 inches (41 cm) and a maximum of 34 inches (86 cm) above the ground surface. Posts shall be set no more than 10 feet (3 m) on center. Filter fabric shall be cut from a continuous roll to the length required minimizing joints where possible. When joints are necessary, the fabric shall be spliced at a support post with a minimum 12-inch (300-mm) overlap and securely sealed. A trench shall be excavated approximately 4 inches (100 mm) deep by 4 inches (100 mm) wide on the upslope side of the silt fence. The trench shall be backfilled and the soil compacted over the silt fence fabric. The Contractor shall remove and dispose of silt that accumulates during construction and prior to establishment of permanent erosion control. The fence shall be maintained in good working condition until permanent erosion control is established. Silt fence shall be removed upon approval of the RPR.

## **PERMIT REQUIREMENTS**

**102-4.1** Terms and conditions of Arizona Pollutant Discharge Elimination System (AZPDES) General Permit No. AZG2020-001 for Storm Water Discharges Associated with Construction Activities (*2020 CGP*), except to the extent that more explicit or more stringent requirements are written directly into the contract documents, have the same force and effect as if copied directly into the contract documents.

The Contractor shall prepare the Notice of Intent (NOI) and the Storm Water Pollution Prevention Plan (SWPPP) and comply with the terms and conditions of the *2020 CGP*.

The NOI's must be signed by the contractor in accordance with the signatory requirements of the *2020 CGP* and must contain all required eligibility certifications.

It shall be the responsibility of the Contractor to prepare a SWPPP ensuring its compliance with the minimum conditions of the *2020 CGP*, including measures to protect impaired or unique waters, measures to protect threatened and/or endangered species, and measures to protect properties eligible for protection under the National Historic Preservation Act. The SWPPP must reflect the Contractor's entire scope of activities at the job site as anticipated for the duration of the construction activities. The Contractor must indicate in the SWPPP those changes in job site requirements and for the order of work performance that will require modifications to the SWPPP and include those modifications in the SWPPP.

Once completed, it shall be the responsibility of the RPR to review and approve the SWPPP prior to the start of work. The preconstruction conference shall not be held and the Contractor shall not be allowed to start work until the RPR has approved the SWPPP as being adequate and in accordance with the requirements of the *2020 CGP*. The RPR shall approve or not approve the SWPPP within seven (7) calendar days after receipt of the SWPPP from the Contractor for purposes of review.

It shall be the responsibility of the Contractor to implement the SWPPP, and ensure day-to-day compliance with the terms and conditions of the SWPPP and the *2020 CGP*. The Contractor shall, with the approval of the RPR, update and revise the SWPPP as necessary throughout the duration of the project to ensure compliance with the *2020 CGP* requirements.

The Contractor shall retain a copy of the SWPPP and the *2020 CGP* at a central location on the job site for the use of all operators whenever they are on the construction site. A copy of the signed SWPPP must be retained on the construction site or at another location easily accessible during normal working hours.

All subcontractors and construction site operators having control over only a portion of the construction site shall comply with the requirements of the *2020 CGP* and the common SWPPP under the supervision of the Contractor. The Contractor shall ensure that all partial site operators having day-to-day operational control of activities necessary to ensure compliance with the SWPPP or other permit requirements as required by the *2020 CGP*. Subcontractors and partial site operators shall ensure that their activities do not render any other party's pollution prevention plan measures ineffective.

The Contractor shall obtain and incorporate into the SWPPP copies of all NOIs required by the *2020 CGP*. The Contractor shall ensure that all required documents are complete and accurate, and all required NOIs are received by ADEQ at least two (2) business days before a contractor, subcontractor, or partial site operator is allowed to perform any work at the construction site.

The Contractor shall submit the Contractor's completed and signed NOI form to the ADEQ through the ADEQ website ([www.azdeq.gov](http://www.azdeq.gov)) and shall submit any required documentation.

Failure by the Contractor to provide copies of the required completed NOI forms by the time of the preconstruction conference shall cause a delay in the construction start date. The Contractor shall not be entitled to additional compensation for costs that result from such delay in the construction start date.

The Contractor must submit an amended NOI if ADEQ provides notification that the previously submitted NOI is incomplete. The amended NOI must be submitted to the ADEQ and the RPR.



**102-4.2** The SWPPP must be prepared prior to submitting the NOI to ADEQ for coverage under the *2020 CGP*, and the Contractor must implement the SWPPP as written from the initial commencement of construction activity until final stabilization is complete. The SWPPP must be prepared in accordance with good engineering practice, and must:

- a.** Identify potential sources of pollution which may reasonably be expected to affect the quality of storm water discharges from the construction site;
- b.** Identify, describe and ensure implementation of Best Management Practices (BMPs) that will be used to reduce the amount of pollutants in storm water discharges from the construction site;
- c.** Assure compliance with the terms and conditions of the *2020 CGP*; and
- d.** Identify the party responsible for on-site implementation of the SWPPP.

Specific requirements for the contents of the SWPPP include identification of all operators of the project site, and the areas over which each operator has control. The SWPPP must also provide a description of the nature of the construction activity that includes:

- a.** A description of the project and its intended use after the Notice of Termination (NOT) is filed.
- b.** A description of the intended sequence of activities that disturb the soil at the site.
- c.** The total area of the site, and an estimate of the total area of the site expected to be disturbed by excavation, grading, or other activities, including off-site borrow and fill areas;
- d.** An estimate of the runoff coefficient of the site for both the pre-construction and postconstruction conditions, and data describing the soil and any existent data on the quality of any discharge from the site;
- e.** A general location map with enough detail to identify the location of the construction site and the receiving waters within one mile of the site.

The SWPPP must contain a legible site map completed to scale that shows the entire site, and identifies:

- a.** The directions of storm water flow and the approximate slopes anticipated after major grading activities;
- b.** Areas of soil disturbance and areas of no soil disturbance;
- c.** Locations of structural and non-structural controls identified in the SWPPP;
- d.** Locations where stabilization practices are expected to occur;
- e.** Locations of off-site material, waste, borrow areas, or equipment storage areas;
- f.** Locations of all surface water bodies

- g.** Locations where storm water discharges to surface water.
- h.** Areas where final stabilization has been accomplished and no further construction-phase permit requirements apply.

The SWPPP must identify the nearest receiving water or waters, including ephemeral and intermittent streams, dry sloughs, and arroyos. If applicable, the SWPPP must also identify the area and extent of, and describe any wetlands near the site that could be disturbed or that could potentially receive discharges from the disturbed areas of the project.

The SWPPP must identify the location and describe any storm water or non-storm water discharges at the site associated with activity other than construction and other pollutant sources, such as fueling operations, on-site material storage areas, waste piles, etc. This includes discharges from dedicated asphalt plants and dedicated concrete plants that are covered by the *2020 CGP*. The SWPPP must identify and address off-site storage areas or borrow areas that are used solely for this construction project.

The SWPPP must describe all pollution control measures that will be implemented as part of the construction project to control pollutants in storm water discharges. For each major activity identified in the project description, the SWPPP must clearly describe appropriate control measures; the general sequence during the construction process when the measures will be implemented; and identify the construction site operator responsible for the implementation of the described control measures.

The SWPPP must describe good housekeeping procedures to prevent litter, construction debris, and construction chemicals exposed to storm water from becoming a pollutant source for storm water discharges.

The SWPPP must include a description of and identify interim and permanent stabilization practices for the construction site, including a schedule of when the practices will be implemented. The SWPPP shall document those areas where existing vegetation will be preserved.

The Contractor must initiate stabilization measures within 14 calendar days in those areas where construction activities have temporarily or permanently ceased, except:

- a.** Where construction activity on a portion of the site has temporarily ceased, but earth disturbing activities will resume in that area within the 14 days. In this event, temporary stabilization measures do not have to be initiated on that portion of the site.
- b.** When the site is using vegetative stabilization measures and it is during seasonally arid conditions, vegetative stabilization measures must be initiated as soon as practicable.

The Contractor must maintain the following records as part of the SWPPP:

- a.** Dates when major grading activities occur;
- b.** Dates when construction activities temporarily or permanently cease on a portion of the site;
- c.** Dates when stabilization measures are initiated and completed, and the reasons for any delay.

The SWPPP must describe structural practices to divert flows from exposed soils, store flows or otherwise limit runoff and the discharge of pollutants from exposed areas of the site to the degree attainable. Placement of structural practices in floodplains should be avoided to the degree attainable. A combination of sediment and erosion control measures is required to achieve maximum pollutant removal. Sediment basins and velocity dissipation devices must be utilized and placed in accordance with Part IV.D.5 of the *2020 CGP*.

The SWPPP must include a description of post-construction storm water management measures that will be installed during the construction process to control pollutants in storm water discharges after construction operations have been completed. Structural measures shall be placed on upland soils to the degree attainable and must be designed and installed.

The SWPPP must identify all allowable sources of non-storm water discharges listed in Part I.C.2 of the *2020 CGP* except for flows from firefighting activities. Non-storm water discharges are to be eliminated or reduced to the extent feasible. The Contractor must implement appropriate BMPs to minimize pollutants in any non-storm water discharges and must describe those BMPs in the SWPPP. Except if used in emergency firefighting, super-chlorinated wastewaters must be held on-site until the chlorine dissipates, or otherwise dechlorinated prior to discharge.

The SWPPP must describe:

- a.** Measures to prevent the discharge of solid materials, including building materials, to waters of the United States, except as authorized by a permit issued under section 404 of the Clean Water Act;
- b.** Measures to minimize off-site vehicle tracking of sediments, to the extent practicable, and the generation of on-site dust;
- c.** Construction and waste materials expected to be stored on-site with updates as appropriate. The SWPPP must also include a description of the controls to reduce pollutants from these materials including storage practices to minimize exposure of the materials to storm water, and spill prevention and response practices;
- d.** Any pollutant sources from areas other than construction with details of controls and measures that will be implemented at those sites to minimize pollutant discharges; and
- e.** Measures to sufficiently stabilize soil at culvert locations to prevent the formation of rills and gullies during construction.

The SWPPP must include a copy of the *2020 CGP*. Copies of the NOIs submitted to ADEQ and/or copies of the certificates received from ADEQ specifying the authorization numbers must also be incorporated into the SWPPP as they become available.

The SWPPP must be consistent with applicable federal, state, and local requirements for soil and erosion control or storm water management. The SWPPP may incorporate by reference the appropriate elements of soil and erosion or storm water management plans required by other agencies. A copy of these requirements incorporated by reference must be provided as an

attachment to the SWPPP and must be updated as necessary to remain consistent with any revisions made to the requirements by the responsible agency or agencies.

A schedule for routine inspections of the construction site must be included in the SWPPP. This schedule must comply with Part IV.H.1 and Part IV.H.2 of the *2020 CGP*.

The Contractor must sign the SWPPP in accordance with Part VII.K of the *2020 CGP*. A copy of the signed SWPPP must be retained on the construction site or at another location easily accessible during normal working hours.

**102-4.3** The Contractor shall not begin any construction activity until all applicable SWPPP controls, devices, and practices have been put into place.

In accordance with the terms and conditions of the *2020 CGP*, the Contractor shall post the following documents at the construction site near the main entrance:

- a. The AZPDES authorization number for the project or a copy of the NOI if an authorization number has not yet been assigned,
- b. The name and telephone number of a local office or site contact person,
- c. A brief description of the construction project, and
- d. The location of the SWPPP if the site is inactive or does not have an on-site location to store the plan, and the name of the contact person for accessing the SWPPP.

The Contractor shall provide adequate and timely maintenance of vegetation, erosion and sediment control measures, and other protective measures and/or BMPs identified in the site plan or SWPPP to ensure that they remain in effective operating condition. Maintenance needs identified through inspections or other means shall be accomplished as soon as practicable and before the next anticipated storm event. If existing protective measures need to be modified or additional measures added, implementation of these changes must be completed before the next anticipated storm event, if practicable. If not practicable, implementation must be completed as soon as it is practicable. Sediment and debris must be removed from sediment traps, sediment ponds, trash racks, and similar structures when the design capacity of the structure has been reduced by fifty (50) percent.

The Contractor shall employ qualified personnel as defined by Part IV.H.3 of the *2020 CGP* to inspect construction site areas in accordance with the requirements of Part IV.H.4 of the *2020 CGP*. All inspection results shall be documented in reports that, at a minimum, include:

- a. The inspection date;
- b. The name, title, and qualifications of the person or persons performing the inspection. The qualifications must be either on or attached to the report. Alternatively, if the SWPPP documents the qualifications of the person or persons performing the inspection, then that portion of the SWPPP may be referenced;
- c. The weather information for the period since the last inspection including the estimate of the beginning of each storm event, the duration of each event, the time that has elapsed since the last storm event, and the approximate amount of rainfall for each event in inches;

- d.** The location or locations of discharges of sediment or other pollutants from the site; Airport;
- e.** The location or locations and identification of BMP's that need to be maintained, failed to operate as designed, or proved inadequate;
- f.** The location or locations where additional BMP's that do not exist at the time of the inspection need to be implemented;
- g.** Any corrective actions required, including any changes to the SWPPP that are needed, and the dates for implementation;
- h.** Identification of all sources of non-storm water and their associated pollution prevention control measures; and
- i.** Identification of material storage areas, and any evidence of or potential for pollutant discharge from such areas.

The Contractor must retain the inspection reports and any records of follow-up actions taken for a period of at least three (3) years from the date permit coverage expires or is terminated. Inspection reports must identify any instance of non-compliance with the terms and conditions of the *2020 CGP*. Where no instance of non-compliance is identified, the report must contain a certification that the construction project or site is being operated in compliance with the SWPPP and the *2020 CGP*. The report shall be signed in accordance with Part VII.K of the permit. Copies of all inspection reports shall be provided to the RPR at least once each month throughout the duration of the project.

Based on the results of the inspection, the Contractor must modify the SWPPP to include additional or modified BMPs designed to correct problems identified. These revisions must be completed within seven (7) calendar days following the inspection. If existing BMPs need to be modified, or if additional BMPs are needed, implementation must be completed before the next anticipated storm event. If implementation before the next anticipated storm event is not practicable, implementation must occur as soon as it is practicable.

The Contractor, with the approval of the RPR, must amend the SWPPP within fifteen (15) business days whenever:

- 1.** There is a change in design, construction, operation, or maintenance at the construction site that has a significant effect on the discharge of pollutants to the waters of the United States, and such effect has not been previously addressed in the SWPPP; or
- 2.** Inspections, monitoring (if required), or investigations by the Contractor, RPR, Airport, state officials, or federal officials determine the discharges are causing or contributing to water quality exceedances, or the SWPPP is ineffective in eliminating or significantly minimizing pollutants in storm water discharges from the construction site.

The SWPPP and all reports required under this contract shall be available to the public in accordance with the requirements of section 308b. of the Clean Water Act. The Contractor shall make plans and reports available upon request from the ADEQ State, or local agency with approval authority for sediment and erosion control plans, grading plans, or storm water management plans; local government officials.

ADEQ may notify the Contractor and/or the RPR at any time that the SWPPP is inadequate or does not meet one or more of the requirements of Part IV of the *2020 CGP*. Within fifteen (15) calendar days of receipt of such notification from ADEQ (or as otherwise provided by ADEQ), the Contractor must make the required changes to the SWPPP and submit to the ADEQ a written certification that the requested changes were made and implemented. The ADEQ may request submittal or re-submittal of the SWPPP to verify that all deficiencies have been adequately addressed.

No condition of the *2020 CGP* or the SWPPP shall release the Contractor from any responsibilities or requirements under any other environmental statutes or regulations, including requirements for the prevention or minimization of the discharge of hazardous substances or oil. If there is a release containing a hazardous substance or oil in an amount equal to or greater than the reportable quantities established under federal regulations that has the potential to impact storm water discharges from this site, the Contractor must report the release to the regulatory agencies in accordance with regulatory requirements. In addition, the Contractor must modify the SWPPP within fourteen (14) calendar days after gaining knowledge of the release to provide a description of the release, the circumstances leading to the release, and the date of the release. The SWPPP must identify measures to minimize and/or prevent the occurrence of such releases, and appropriate measures for responding to such releases. The *2020 CGP* does not authorize the discharge of any substance resulting from on-site spills, or the discharge of oil or chemicals.

The SWPPP (including a copy of the *2020 CGP*) shall be kept on the project site from the date of commencement of construction activities to the date of submittal of the Notice of Termination (NOT). A copy of the SWPPP and the permit shall be retained by the Contractor for a period of at least three (3) years following the date of final stabilization of the construction site. The Contractor shall also retain for the same three-year period all reports required by the *2020 CGP* and all records of data used to complete the NOI.

It shall be the responsibility of the Contractor to ensure that copies of all documents and records retained by the Contractor in accordance with requirements of the AZPDES permit.

Within thirty (30) days of the date of final stabilization of the construction site, the Contractor shall submit a completed and properly signed Notice of Termination (NOT) form; thereby terminating the Contractor's and the Airport's *2020 CGP* coverage for the project.

## METHOD OF MEASUREMENT

**102-5.1** Temporary Air and Water Pollution, Soil Erosion, and Siltation Control shall be measured as a lump sum.

This item includes the Contractor's preparation of the SWPPP, the implementation of the SWPPP, and the modification of the SWPPP as necessary for compliance with the *2020 CGP*. This item also includes all associated fees, required material, necessary documentation/reports and inspections.

No separate measurement or direct payment will be made for preparing the Notice of Intent (NOI), the Notice of Termination (NOT), Inspection and Maintenance Reports, or other documentation required to perform the work.



Temporary erosion and pollution control work required will be performed as scheduled or directed by the RPR. Completed and accepted work will not be measured and paid for directly but shall be considered as incidental to the implementation of the SWPPP.

- a. Temporary seeding and mulching.
- b. Temporary slope drains.
- c. Temporary benches, dikes, dams, and sediment basins, including necessary cleaning of sediment basins, and embankment placed as directed by the RPR.
- d. Fertilizing.
- e. Installation and removal of sediment wattles.
- f. Items required by the SWPPP, BMP or Erosion Control Plan.

Temporary control features not covered by contract items that are ordered by the RPR will be paid for in accordance with Section 90, paragraph 90-05 *Payment for Extra Work*.

Control work performed for protection of construction areas outside the construction limits, such as borrow and waste areas, haul roads, equipment and material storage sites, and temporary plant sites, will not be measured and paid for directly but shall be considered as a subsidiary obligation of the Contractor.

### **BASIS OF PAYMENT**

**102-6.1** Payment will be made under:

Item C-102 Temporary Air and Water Pollution, Soil Erosion, and Siltation Control. Including all material, work, required documentation, associated fees, and necessary implementation.– per Lump Sum.

### **REFERENCES**

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

Advisory Circulars (AC)

AC 150/5200-33      *Hazardous Wildlife Attractants on or Near Airports*

AC 150/5370-2      *Operational Safety on Airports During Construction*

ASTM International (ASTM)

ASTM D6461      *Standard Specification for Silt Fence Materials*

United States Department of Agriculture (USDA)

FAA/USDA Wildlife Hazard Management at Airports, A Manual for Airport Personnel

**END OF REVISED ITEM C-102**