VALENCIA ROAD
WADE ROAD TO MARK ROAD
Pima County Project No. 4RTVMW
Federal Project No. STP-PPM-O(230)/A
TRACS No. 0000 PM PPM SS975 01C

General Project Description
Construct new four-lane roadway, approximately one mile and a half in length, with raised median, sidewalk, drainage curvets, two traffic signals and landscaping. Construct the remaining new roadway, approximately one mile in length, as a five-lane roadway with sidewalk, drainage curvets, a traffic signal and landscaping.

Location Map
Sections 8, 10, 15, 21, 22, 23, 30, 31, 32, 33, 34, 36, 37

THIS PROJECT

UPC-2013-087

Pima County
Department of Transportation
2016 olive avenue, Tucson, Arizona 85719
Pamela S. Cornelius, P.E., Director

Project No. 4RTVMW

SHRINER/SHRINER

HDR

No. Description Engineer Daily

No. As Built Engineer Daily

TRAACS No. SS975 01C

Sheet No. 1 of 1

Print Scale 1:400

Printed By: st0509 On: 10/24/04

Sheet No. 1 of 1

Print Scale: 1:400

TRACS No. SS975 01C
**GENERAL NOTES**

1. Construction shall be in conformance with the specifications and details listed in the special provisions.

2. Utility location shown on plans were compiled based on the best information available to the Department. Utility location are not intended to be exact or complete. Prior to commencing construction, the Contractor shall verify the location of all utilities with the appropriate organizations. Contact "Blue Stakes" at 1-800-798-5348, two full working days prior to beginning construction (Saturdays and Sundays are not considered working days).

3. Right-of-Way Encroachments shall be removed only by order of Pine County, unless otherwise noted.

4. Removal of all Casdi and Native Plants shall be in accordance with the provisions of the "Arizona Native Plant Laws" A.R.S. Chapter 7.

5. Contractor shall adjust all Weer Meters, Valve Boxes, Storm Drain Manholes, and Sewer Manholes and Clean Outs to Finish Grades. This work shall be considered incidental to the other items of work, except when the Sketching Schedule contains specific items on a unit basis.

6. Beads of Stabilizing. Stations for Vaienlo Road Increase from west to east. Stabilizing is based on the Section Corner at Vaienlo Road equal to Section 200+00.00 as originally established by Cedro Engineering.

7. Soils Information to be made available to prospective bidders in the Geotechnical Report. Soils Information as provided shall be for information purposes only, and is not to be considered part of the contract documents. This Information was developed as accurately as possible by the methods used. Pine County accepts no responsibility for any conditions encountered which vary from the information provided.

8. The Contractor shall maintain access to all driveways, alleys, and sidewalks during construction. The Contractor will not realign Emergency Vehicles, U.S. Postal Service, Solid Waste Collections, and/or access to the adjacent properties, except as approved by the Engineer.

9. Deviations or conflicts between various elements of the drawings, notes, and details shall be brought to the attention of the Engineer and resolved before proceeding with the work.

10. All staking shown on the plans and profiles is along the construction centerline unless otherwise noted.

11. Existing utilities include, but may not be limited to, overhead electric, telephone and telegraph and underground electric, telephone,newalis, water, sewer and gas. These items shall be moved by others unless otherwise noted and shown in these plans.

12. The contractor’s attention is called to the limited area available on the site for excavation, embankment and other construction activities.

13. Existing topographic conditions shown on the plans sheets reflect conditions as of April 1, 2023.

14. Design Speed for Vaienlo Road is 50 mph.

15. Prior to clearing and grubbing, site shall be treated for buffelgrass and other invasive species. See Special Provision 201-3.01 and 201-3.04.

**EARTHWORK QUANTITIES**

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Item Description</th>
<th>Total</th>
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<td>20305000</td>
<td>Roadway Excavation</td>
<td>7,795 C.F.</td>
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<tr>
<td>20305002</td>
<td>Excavation (Overex, &amp; Remp.)</td>
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<td>2034002</td>
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<td>9,569 C.F.</td>
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<td>2030501</td>
<td>Pipe Excavation</td>
<td>671 C.F.</td>
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<td>2030502</td>
<td>Drainage Excavation</td>
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<tr>
<td>2030503</td>
<td>Structural Excavation</td>
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<td>2030504</td>
<td>Riprap Excavation</td>
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<td>2030505</td>
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<td>2030900</td>
<td>Roadway Embankment</td>
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<tr>
<td>2031000</td>
<td>Pipebedding Embankment</td>
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<tr>
<td>2031100</td>
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<tr>
<td>2031200</td>
<td>Cohesive Embankment</td>
<td>5,030 C.F.</td>
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<td>2031300</td>
<td>Net Embankment Demand</td>
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<tr>
<td>2030901</td>
<td>Borrow In Place</td>
<td>100,638 C.F.</td>
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**EARTHWORK NOTES**

1. For estimating purposes, these earthwork quantities assume that all on-site materials are not acceptable for use as pipe bedding, pipe sheeting, structure backfill, and trench backfill.

2. A.C. volume is for information only, as existing A.C. is included in the roadway excavation quantity.

**DESIGN SHEET**

**LEGENDS**

- Pipe Excavation & Backfill Limits (See PC-G37 St 63, 68)
- Structure Backfill Limits (See ADOT St 8-B-19.50)
- Structural Excavation Limits (See ADOT St 8-B-19.50)
SAFETY MEASURES

1. All design standards, materials and workmanship for public sanitary sewers shall be in accordance with the Pima County Regional Water Reclamation Department (Pamrick) Engineering Design Standards 2003 (EDS 2003) and the standard specifications and details in the County Design Standard. The County’s Engineering Department, Environmental Protection Agency (EPA) and Arizona Department of Health Services wastewater system documents are available through the Pamrick website.

2. The contractor shall call “Blue Stakes” 2-800-782-5348 a minimum of 24 hours prior to commencing construction activities. The contractor shall keep the following requests up-to-date and comply with applicable Arizona Revised Statutes (A.R.S.), Title 40, Chapter 1, Article 6, Section 3, Division 1, Preamble to “Blue Stakes” in order to be compatible with “Blue Stake”.

3. The contractor shall field verify existing sewer elevations and alignments prior to construction and implementation. Verification may require pot-holing.

4. Immediately report any of the following to either Pamrick Field Engineering (520-434-2200) or Sewer Connection Division (520-434-2300) as any release of sewerage, either damage to the public sanitary sewage system, or the depositing of debris into the public sanitary sewage system, on weekends, holidays, or between 5:00 p.m. and 7:00 a.m., immediately action to contain the sewage spillage over 1250 ft from the sewer system. The contractor shall take the necessary actions to ensure that the sewer system, for all expenses associated with the release and to disinfect the release areas and for any regulatory penalties levied on Pamrick because the ISO entered a natural drainage or storm water drainage system. The contractor shall repair all damage as directed and approved by Pamrick.

5. House or business connection sewers (HCS or BCS) are not part of the public sanitary sewer collection system, and therefore, connection sewer connections constructed prior to January 2006 are not required to be blue staked. Any future connections made after January 2006 shall be protected, repaired, or rerouted, as the situation dictates per EDS sewer detail. HIM 400 and at no expense to the property owner or Pamrick.

6. Sewer construction shall not commence until (a) contractor has obtained a public sewer construction permit from Pamrick (520-755-0608) and (b) a pre-construction meeting with the construction and site engineer project. The sewer contractor must schedule or inspect sewer connections, least three (3) full working days prior to the start of the sewer construction.

7. It is the contractor’s responsibility to adjust or reconstruct all sanitary sewer manholes to finished grade, all frame and cover adjustments. For all manholes, the company is responsible to be in accordance with PAMrick EDS, detail HIM 200, 300, 400 or 500 as applicable and detail HIM 500. While adjusting the manholes to finished grade, it is the contractor’s responsibility to ensure that frame and cover are cleaned of any and all attached materials (assumes concrete, etc.) and that any void holes are open and clear of obstructions. If the frame and cover are damaged or cannot be completely new and a new frame and cover are to be put into place, costs associated with these actions are the responsibility of the contractor. The contractor is responsible to refer to PAMrick EDS 200, detail HIM 003-218 for frame and cover requirements.

6. The contractor shall maintain access to all sanitary sewer manhole structures at all times.

9. All landscaping located within 100 feet horizontally of the public sanitary sewer main and/or public sanitary easements shown hereon shall be in accordance with the planting guidelines contained within PAMrick EDS 2000, section T.7.

10. All storm water pollution prevention plan (SWPPP) measures shall be installed so as to prevent all storm water, construction water, fuels, chemicals, or liquids to be directed or onto any sanitary sewer facilities. Protection of sanitary sewer facilities shall be a part of the approved SWPPP and best management practices. Protection devices shall be installed and maintained, either potentially affected sanitary sewer facilities within the project limits. Additional measures shall include but not be limited to the use of rain stoppers and manhole covers as defined necessary by Pamrick.

II. Manhole frames and covers to be reset which are lost or damaged due to the contractor’s operations to the extent that they are unacceptable for reuse shall be replaced at no additional cost to the agency.
<table>
<thead>
<tr>
<th>Location</th>
<th>BARRIER</th>
<th>TRANSITION</th>
<th>END TREATMENT</th>
<th>REMARKS</th>
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<tbody>
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<td>01 A X 125.0 4</td>
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<td>Lt. 309+25</td>
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**SHEET TOTAL:** 2,000.0 95 367.2

**BARRIER SUMMARY SHEET**

- The values in parentheses (X) indicate the dimensional precision for that column.
- A: The length of needed B-Beams is for types 2 or 3 (37.5').
- B: The length in parenthesis (X) is the length listed per Std., C-10.00 for Guardrail Measurement Limits.
- C: Specify with width under "Remarks".
- D: Specify Type 1 or 2 under "Remarks".
- E: Allowable End Treatment options are indicated with the number "1" in the space. Other options are not viable alternatives.
- F: Notes: For as-built preparation - circle end treatment installed.
Details F1

Drainage Access Driveways

South Drainage Access Driveway Plan View

Notes:
1. Sidewalk shall be 6" thick where access driveways cross the sidewalks.
2. For Driveway at Sts. 254+70, Sts. +20+84.50.
3. For Driveway at Sts. 254+70, Sts. +20+60.50.
4. For Driveways at multi-use path locations, Grades is -1.00%. For all other Driveways, Grade is 0.00%.
5. For Driveways at sidewalk locations, Grade is +1.00%. For all other Driveways, Grade is +2.00%.
DETAIL H

Curb & Gutter Transition

General Notes:
1. The longitudinal rumble strip groove and pattern shall be constructed by milling or grinding the interlaminations in the asphaltic concrete pavement.
2. The grinding machine shall be equipped with an acceptable guide that allows the strip to be installed to the proper alignment within acceptable tolerances.
3. To ensure proper rumble strip location, a temporary painted edge shall be installed at the permanent location prior to the installation of the ground-in rumble strip. The rumble strip shall follow the location of the edge line.
4. The radius and configuration of the cutting/milling drum and machine shall be able to produce a smooth and consistent groove to the requirements of these specifications.
5. Longitudinal rumble strips shall not be placed on construction joints.
6. Rumble strips shall be omitted across intersections, driveways and along the right turn lanes.
7. This work will be paid for under Bid Item No. 9280036.

Plan View

Traffic Lane

Right Shoulder

Direction of Traffic

4" Deep, 8" Wide, 7" Long
Cylindrical Shaped Continuous
Longitudinal Rumble Strip Groove

Typical Longitudinal Rumble Strip Location

8" Wide Strip with Offset

Profile View

Asphalt Concrete Pavement (A.C.)

Section A

Rumble Strips

SPECIAL DETAILS
**SECTION A: A**

**Notes:**

Relocating the mailboxes will be paid for under Item 0520006.

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**Plan A**

**Mailbox Pullout**

**SPECIAL DETAILS**

Sheet DT10 of DT55 Page 83 of 281
Plan
  Side Street  Station X  Offset
  Wade Ref.  255+55  44.5' Lt.
  South Arrow  266+64  39' Lt.

Notes:
1. Relocating the mailboxes will be paid for under Item 2020061.
2. Relocating the CBU’s will be paid for under Item 2020062.

DETAIL N
Mailbox Pullout

SPECIAL DETAILS

Scale: 1"=100'
Sheet DTII of DT15
Page 84 of 881

Printed by: Jeff
Date: 1/20/2004 2:14:47 PM
Print Scale: 1/100

TRAC NO. 05075 IRC

PRINCIPAL}
S. C LOAD, P.E. Project Manager

FREE COUNTY DEPARTMENT OF TRANSPORTATION

WAKE ROAD TO MARK ROAD PROJECT NO. 99-01908

Hillsboro, OR 97124-1011

Telephone: (503) 893-8175, Fax: (503) 893-8176
Website: www.free-county.com
GENERAL NOTES

1. This detail is for roadway layout only.

2. The ET-PLUS shall be installed in accordance with the manufacturer’s specifications and current approved drawings including all details, hardware, hardware quantities, and other information.

3. "Leaewow" is asphalt concrete shall be provided in the AC pavement around the guardrail posts at the locations and dimensions specified on the manufacturer approved drawings. "Leaewow" material shall consist of a 1-sack grout mix or other non-cohesive material as approved by the engineer.


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Detail O

PLAN

ET-PLUS Measurement Unit (Each)

Guardrail Measurement Unit (Lin FT)

System Post

Length of Head

Traffic

12" - 6" W-Beam (Typ)

*Leaewow* Pavement Area
Posts 3 Through 8 (Typ)

See General Note 3

Timber Post
Posts 3 Through 8 (Typ)

HBA Post (Typ)
Posts 1 & 2

Extruder Terminal

Deflection

See Note 4

ELEVATION

---

DETAIL

Sheet 1 of 2

LAYOUT FOR ET-PLUS

HBA POSTS

(AC PAVEMENT)
**TYPE A GUARDRAIL INSTALLATION**  
*(FACE OF RAIL AT EDGE OF PAVEMENT)*

**TYPE B GUARDRAIL INSTALLATION**  
*(FACE OF RAIL OFFSET 2' FROM NORMAL EDGE OF PAVEMENT)*

**Notes:**  
AC Pavement Widening will be paid for under Item 4060002.
Notes:
Base Elev. = 2400.00

Elev. = 2489.56
B.C.R.

Elev. = 2489.67
E.C.R.

Elev. = 2489.80
End Taper

VALENCIA ROAD
Notes
Base Elevation = 2400.00

DETAIL P
Sheet 4 of 4
Staking Plan
Wade/Valencia Intersection
SPECIAL DETAILS

Sheet DI7 of DT55
Page 30 of 281
1. Access Ramp Control Point. See hicle this sheet for location.
2. Detectable Warning Strip 6" x 2' (Typ.). See PC Shi. Dir. 227, Sheet 8 of 9.
3. See plans for radius.
   a. Provide Minimum of 6' of Sidewalk Along Curbing (Typ.)
   b. 6' at Back of Curb

**Plan View**

**Control Point**

<table>
<thead>
<tr>
<th>Location, Sta. &amp; Offset</th>
<th>Length (Ft.)</th>
<th>Slope (%)</th>
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Notes:
1. See Shl. Dir. 227 for all other Information.
2. Type I Curb Access Ramp will be used for under Bld then 500000, Curb Access Ramp, PC Shl. Dir. 227 (Typ. II).
3. See note for this sheet for ramp location. Curb access ramp should be oriented to align with the crosswalk or stop line, median refuge area, and with the opposite access ramp in the direction of pedestrian travel.
4. Lengths are provided along edge of pavement.
### DETAIL S

#### Irrigation Sleeve Summary

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<td>E36+90</td>
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<td>E37+70</td>
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**Notes:**
1. All sleeves shall be installed per detail 806-6, IR3, Irrigation Plaza.
2. All sleeves and conduit shall conform to 40 P.V.C.
3. Irrigation Sleeves will be paid for under Item No. 500002.
4. Install 1st conduit adjacent to Irrigation Sleeves indicated in the table above. The conduit will be paid for under Item No. 730000.

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#### S1

**AC Safety Edge**

**SPECIAL DETAILS**

- **>}</textarea>
MATCH LINE STA. 268.00 SEE SHEET DT28

MATCH LINE STA. 268.00

Constr. E & E

Sta. 866+67

Valencia Road

Sta. 865+41

SS No. 1
Area=1,743.2 SF

SS No. 18
Area=24.3 SF

SS No. 1A
Area=1,455.6 SF

SS No. 18
Area=299.7 SF

SS No. 1
Area=452.6 SF

SS No. 1
Area=1,872.1 SF

SS No. 1
Area=1,743.2 SF

SS No. 1
Area=24.3 SF

SS No. 1A
Area=1,455.6 SF

SS No. 1
Area=1,455.6 SF

MATCH LINE STA. 250.00 SEE SHEET DT20

Sheet TOTALS

Structural Section No. 1A 9,525 SF
Structural Section No. 1B 1,789 SF
Structural Section No. 1B 73 SF

For other pavement section quantities, see Side Street Sheets & Pavement Plans.
Valencia Road
SS No. 1
Area=2,468.2 SY

SS No. 1B
Area=24.3 SY

SS No. 1A
Area=387.1 SY

Sta. 331+66

Sta. 332+00

Sta. 332+00

Sta. 332+92

Sta. 333+32

Sta. 335+06

Sta. 335+88

Sta. 335+00

Sta. 337+00

Sta. 337+00, 11' Lt. & 11' Rt.

Sta. 337+00

Sta. 339+50, 6' Lt. & 6' Rt.

Sta. 339+50, 6' Lt. & 6' Rt.

Sta. 339+50, 6' Lt. & 6' Rt.

Sta. 339+50, 6' Lt. & 6' Rt.

Sta. 339+50, 6' Lt. & 6' Rt.

Sta. 339+50, 6' Lt. & 6' Rt.

Sta. 339+50, 6' Lt. & 6' Rt.

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Sta. 339+50, 6' Lt. & 6' Rt.

Sta. 339+50, 6' Lt. & 6' Rt.

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Sta. 339+50, 6' Lt. & 6' Rt.
1. All Reinforcing Steel Shall Be ASTM A615 Grade 40 or Grade 60.

2. Bank Protection Tie Shall Be Included In the Bid Price For the Concrete Channel Lining, (Bid Item No. 91300005).

DETAIL DA

Bank Protection Tie

Details:
- New Conc. Headwall
- Or Wingwall, See Inlet Details
- 4 bars @ 12" O.C.
- Const. Joint
- New Conc. Channel Lining
- See Inlet Details

DETAIL DB

Riprap Protection for Headwalls & End Sections

Notes:
- Detail DB will be paid for under Bid Item No. 91300001, Riprap (Draped)

DETAIL DC

Box Culvert Joint Detail

Notes:
- Box Culverts to be constructed immediately adjacent to each other.
- Extend joint through headwall.
- The work shown in this detail will be paid for under Bid Items 6000166 & 6000167 (Box Nos. 6 & 7).

Elevation of Outlet Headwall

R.C.B.C.
Const. E

1/2" Bitumenous Joint Filler

4-Cell 10' x 5' R.C.B.C.

5-Cell 10' x 5' R.C.B.C.
Notes:
1. All slopes are control. Construct inlet using dimensions and elevations provided.
2. 6% slope is for access.
3. The concrete channel lining will be paid for under Item 8.100500. The wingwalls will be paid for under Item 8.200501 (Box No. 1).

Plan View

Section A

Section B

DETAILED
Inlet Details - Box 1
Station 237+30

SPECIAL DETAILS

Scales: Sheet 86 of 881

TRACS No. 33975 OIC

Date: 12/29/2019 1:14:47 PM
Sheet: 86

Prepared: By:
Filed by:
Checked by:
Approved by:
Drawn by:
Edited by:
Edited by:
Print Scale: 1/100

5.5% Concrete
Connect Channel Lining to Borton Slab per Detail DA

Connect Concrete Channel Lining to Wingwalls per Detail DA

Top of Wingwall Elevation = 2485.98
Top of Footing Elevation = 2476.60

Wingwall

Hendrell PC Stn. Detail 105

5.5% Concrete

Match Exit to Ground

Top of Wingwall Elevation = 2485.98

5.5% Concrete

Match Exit to Ground

Top of Footing Elevation = 2476.60

Hendrell PC Stn. Detail 105

Wingwall
Plan View

Notes:
1. All slopes are nominal. Construct Inlet using dimensions and elevations provided.
2. 60% slope is for access.
3. The concrete channel lining will be paid for under Item 3130000. The wingwalls will be paid for under Item 802083.

Elevation

Detailed DA

6" Concrete Channel Lining

Connect Concrete Channel Lining to Wingwalls per Detail DA

Section B

*4 Bars @ 12" O.C.

6" Concrete Channel Lining

Connect Channel Lining to Bottom Slab per Detail DA

DETAIL DD3

Inlet Details - Box 3
Station 278+40

SPECIAL DETAILS
Notes:

1. All slopes are nominal. Construct inlet using dimensions and elevations provided.

2. 6% slope is for access.

3. The concrete channel lining will be paid for under Item 933000. The wingwalls will be paid for under Item 603085 (Box No. 5).

Plan View

Section B

Handrail
PC Stn. Detall 105

Wingwall

4

32°

2501.50

2501.30

2500.00

2499.90

2497.50

2495.50

54.11

2500.00

2500.00

10'

7'

6'

12

Connect Channel Lining to Bottom Slope per Detail DA

*4 Bars @ 12' O.C., Each Way

Mastic Eust. Grond

Top of Wingwall
Elev. +2502.09

Top of Wingwall
Elev. +2502.09

Top of Fasatg
Elev. +2496.30

Connect Concrete Channel Lining to Wingwalls per Detail DA

4.1

2.1

6.1

5.1

Section A

SPECIAL DETAILS

DETAIL DD5

Inlet Details - Box 5
Station 289+55

Scale: 1/8" = 1'-0"

Sheet DT35 of DT50
Page 52 of 281
1. All slopes are nominal. Construct Inlet using dimensions and elevations provided.
2. 6% slope is for access.
3. The concrete channel lining will be paid for under Item 9130060. The wingwalls will be paid for under Item 603006 (Box No. 6).

*4 Bars a 12" O.C., Each Way

Connect Channel Lining to Bottom Slab per Detail DA

**Notes**

**DETAIL DD6**

Inlet Details - Box 6
Station 296+70

**SPECIAL DETAILS**

**Dimensions:**
- Wingwall Height: 15'
- Wingwall Length: 2504.00' to 2502.00'
- 48° Handrail Detail DG
- Match Est. Ground

**Sections:**
- Section A:
  - Top of Wingwall Elev. = 2504.24
  - Match Est. Ground
- Section B:
  - Top of Wingwall Elev. = 2504.40
  - 48° Handrail Detail DG
  - 6" Concrete Channel Lining
  - Connect Channel Lining to Bottom Slab per Detail DA
Notes:

1. All slopes are nominal. Construct Inlet using dimensions and elevations provided.
2. 6:1 slope is for access.
3. The concrete channel lining will be paid for under item 9230500. The Wingwalls will be paid for under item 60103167 (Box No. 71).

DETAIL DD7
Inlet Details - Box 7
Station 310+50

SPECIAL DETAILS
Notes:
1. All slopes are nominal. Construct inlet using dimensions and elevations provided.
2. This drop inlet will be paid for under Item 9030082. The concrete channel lining will be paid for under Item 9030000.

Plan View

Section A

New Drop Inlet
ADIT Std. C-15.7S

Handrail PC Std. Detail 105

Section B

6" Concrete Channel Lining
Connect Channel Lining to Concrete Wall per Detail DA

Handrail PC Std. Detail 105

**4 Bars at 12" O.C.**

DED8
Inlet Details - Pipe 1
Station 232+80

SPECIAL DETAILS
New 42" or 48" Handrail
PC Slg. Ch. 125 for 42"
Detail Dc. for 48"
Alternate Location of
Lower Rail shall be used

10° Conc. Headwall

2 #6 Continuous
at Top of Wall

1/2" Chemfer, Typ.

Typ. Edge Beam Reinfr.
See ADOT Std. B-01.10

Chemfer
Inlet Only

Headwall Section

Notes:
1. Concrete shall be Class S (1/3=3000 psi).
2. Reinforcing shall conform to ASTM A615,
Grade 60.
3. All reinforcing shall have 2" clear cover
unless noted otherwise.
4. Provide construction joints in headwall at a
maximum spacing of 30 feet. All joints shall
be placed perpendicular to headwall.
5. For Culverts #6 & 7, See Detail Dc.
6. All work shown in this detail, except for the
headwall, will be paid for under the box culvert
bid lines.

DETAİL DF
Modified ROCB Headwall

SPECIAL DETAILS
Concrete Channel Lining
Handrail Installation

1 1/4" Nominal Steel Pipe Rails
w/ Posts @ 3' o.c. (Max.)

New Handrail (42" or 48")
PC Std. Detail 105

Notes:
1. Handrail (Special), including anchor plates, shall be painted in accordance with Standard Specification Section 933. The color shall be Sherwin-Williams 6564, Swelle Sage or approved equal.
2. This detail will be located under Bid Item 9330004 - Handrail (Special).
3. For Information not shown here, see PC Std. Detail 105.

48" Handrail

6" Radius

Anchor Plate
See PC Std. Detail 105, Sheet 2 of 2

5' Max.

6" Radius

Top of Conc. Barrier

16" Barricade Railing

Notes:
1. All steel pipe shall conform to PC/CDT Std. Specification Section 933.
2. Posts shall be installed vertical.
3. All exposed edges shall be ground smooth.
4. Expansion Joints shall be located at 30 foot intervals (max.). See PC Std. Detail 105, Sheet 1 of 2 for expansion joint detail.
5. Barricade Railing, including anchor plates, shall be painted in accordance with Standard Specification Section 933. The color shall be Sherwin-Williams 6564, Swelle Sage or approved equal.
6. This Barricade Railing will be located under Bid Item 9330002.
**DETAIL DI**

**Inlet Dike**

*Use 4' Toedown for Box No. 6*

**DETAILED DJ**

**Outfall Channel**

**SPECIAL DETAILS**

2. Dumped Riprap & Filter fabric will be paid for under Item 9130001.

**NOTES**

- Dumped Riprap & Filter Fabric will be paid for under Item 9130001.
Sidewalk Supper Plan View

Section RJS.

N-0.80% 2540.66 1/4" R.

Class "B" Concrete

Filter Fabric Per Standard Spec 1044-5

Supper Foundation Shell
Conforms to Standard Curb
Cross Section Below Pavement

Pavement Surface

Edge of Pavement

Steel Diamond Plate

6" Sidewalk

Notes:
1. For all other information, refer to PC/COT Std. Dir. 205.
2. Dimension A in Section B in PC/COT Std. Dir. 205 is 6'-6".
3. All Stations shown are from East Calise Entrance.
4. All work shown in this detail, except for hardscaping, will be paid under Bid Item 50300802.

Median Supper Plan View

Section RJS.

N-0.80% 2540.66 1/4" R.

Class "B" Concrete

Filter Fabric Per Standard Spec 1044-5

Supper Foundation Shell
Conforms to Standard Curb
Cross Section Below Pavement

Pavement Surface

Edge of Pavement

Steel Diamond Plate

6" Median Median

Notes:
1. For all other information, refer to PC/COT Std. Dir. 205.
2. Dimension A in Section B in PC/COT Std. Dir. 205 is 6'-6".
3. All Stations shown are from East Calise Entrance.
4. All work shown in this detail, except for hardscaping, will be paid under Bid Item 50300802.

PC/COT Std. DL 205
Type 2, Modified

SPECIAL DETAILS
**DETAIL DM**

Sidewalk Scupper Outlet Grading Plan

For East Casino Driveway

**Notes:**

The scupper will be paid for under item 10308002. The riprap apron will be paid for under item 9035001.

**DETAIL DN**

Concrete Ford Wall (1x4')

**SPECIAL DETAILS**

- 1. Concrete shall be Class B.
- 2. Reinforcing steel shall conform to ASTM A615 Grade 40 or 60.
- 3. Concrete ford wall (1'x4') will be paid for under Item 9085004.
DETAIL DO
For Pipe Culvert No. 4

Grading Plan
1'-2'

Notes:
1. All concrete shall be Class B.
2. All rebar shall be #4, 1" O.D. center to center, with 3" minimum clear to inside of walls and floor.
3. Chamfer all exposed corners 1/8".
4. Vertical rebar shall have 12" standard hook into floor.
5. This drop inlet will be paid for under Item No. 5030082.
6. The riprap will be paid for under Item No. 9300001.
For Apron Detail See ADOT Std. B-06.30
Stte. 9+10.00
R.C.B.C.
Constr. 8'
Other.
Joint
Stte. 9+28.00
Begin R.C.B.C.
Box Culvert No. 3

Notes:
1. For general notes and miscellaneous details, See ADOT Std. B-01.30.
2. For Section A-A, See ADOT Std. B-04.50.
3. Optional Construction Joint, Apron may be poured with wingwall footings and bottom slab of R.C.B.C.
4. All work shown in this detail will be paid for under Bid Item 6030863.

Plan
1/4"=1'

Section
1"=1'

#4 bar
Section - Concrete Barrier on Footing

Notes:
1. All concrete shall be Class 'S', f'c = 4,000 psi.
2. Reinforcing steel shall conform to ASTM A615, Grade 60.
3. Reinforcing steel shall be 2" cover unless noted otherwise.
4. All bend dimensions for reinforcing steel are out-to-out of bars.
5. Provide 1/4" vertical expansion joints between barrier constructed on cutout and barrier constructed on footing. See Expansion Joint Detail DT.
6. Provide End Treatment per detail on this sheet at beginning & end of barrier, typ.
7. This Concrete Barrier will be paid for under Bid Item 9000066.

Plan - Drilled Shaft Foundation Through Barrier Footing

Drilled Shaft Foundation
For Traffic Signal Through Barrier Footing
See Traffic Signal Plans for Location

Additional Transverse Bars
If an odd number of bars (N) are interrupted, provide (N+1)/2 bars on either side of opening. If an even number of bars (N) are interrupted, provide N/2 bars on either side of opening. Bars shall be same size & length as termination bar and placed a 3" spacing, typ.

Notes:
1. All concrete shall be Class 'S', f'c = 4,000 psi.
2. Reinforcing steel shall conform to ASTM A615, Grade 60.
3. Reinforcing steel shall have 2" cover unless noted otherwise.
4. All bend dimensions for reinforcing steel are out-to-out of bars.
5. Provide 1/4" vertical expansion joints between barrier constructed on cutout and barrier constructed on footing. See Expansion Joint Detail DT.
6. Provide End Treatment per detail on this sheet at beginning & end of barriers, typ.
7. This Concrete Barrier will be paid for under Bid Item 9000066.
4. Location of preservation fencing shown on plans corresponds to conditions at time of plan preparation. Conditions may have been altered between plan preparation and construction. Fencing may be adjusted in field at the discretion of the Engineer based on current field conditions.