MARANA TOWN COUNCIL
REGULAR COUNCIL MEETING
NOTICE AND AGENDA
11555 W. Civic Center Drive, Marana, Arizona 85653
Council Chambers, June 21, 2016, at or after 7:00 PM

Ed Honea, Mayor
Jon Post, Vice Mayor
David Bowen, Council Member
Patti Comerford, Council Member
Herb Kai, Council Member
Carol McGorray, Council Member
Roxanne Ziegler, Council Member

Pursuant to A.R.S. § 38-431.02, notice is hereby given to the members of the Marana Town Council and to the general public that the Town Council will hold a meeting open to the public on June 21, 2016, at or after 7:00 PM located in the Council Chambers of the Marana Municipal Complex, 11555 W. Civic Center Drive, Marana, Arizona.

ACTION MAY BE TAKEN BY THE COUNCIL ON ANY ITEM LISTED ON THIS AGENDA. Revisions to the agenda can occur up to 24 hours prior to the meeting. Revised agenda items appear in *italics*.

As a courtesy to others, please turn off or put in silent mode all pagers and cell phones.

Meeting Times

Welcome to this Marana Town Council meeting. Regular Council meetings are usually held the first and third Tuesday of each month at 7:00 PM at the Marana Municipal Complex, although the date or time may change and additional meetings may be called at other times and/or places. Contact the Town Clerk or watch for posted agendas for other meetings. This agenda may be revised up to 24 hours prior to the meeting. In such a case a new agenda will be posted in place of this agenda.

Speaking at Meetings

If you are interested in speaking to the Council during the Call to the Public or Public Hearings, you must fill out a speaker card (located in the lobby outside the Council Chambers) and deliver it to the Town Clerk prior to the convening of the meeting.

All persons attending the Council meeting, whether speaking to the Council or not, are expected to observe the Council rules, as well as the rules of politeness, propriety, decorum and good conduct. Any person interfering with the meeting in any way, or acting rudely or loudly will be removed from the meeting and will not be allowed to return.

Accessibility

To better serve the citizens of Marana and others attending our meetings, the Council Chambers are wheelchair and handicapped accessible. Persons with a disability may request a reasonable accommodation, such as a sign language interpreter, by contacting the Town Clerk at (520) 382-1999. Requests should be made as early as possible to arrange the accommodation.

Agendas

Copies of the agenda are available the day of the meeting in the lobby outside the Council Chambers or online at www.marana.com, by linking to the Town Clerk page under Agendas, Minutes and Recent Actions. For questions about the Council meetings, special services or procedures, please contact the Town Clerk, at 382-1999, Monday through Friday from 8:00 AM to 5:00 PM.

This Notice and Agenda Posted no later than 24 hours prior to the meeting, at the Marana Municipal Complex, 11555 W. Civic Center Drive, the Marana Operations Center, 5100 W. Ina Road, and at www.maranaaz.gov on the Town Clerk page under Agendas, Minutes and Recent Actions.

REGULAR COUNCIL MEETING

CALL TO ORDER AND ROLL CALL

PLEDGE OF ALLEGIANCE/INVOCATION/MOMENT OF SILENCE

APPROVAL OF AGENDA

CALL TO THE PUBLIC

At this time any member of the public is allowed to address the Town Council on any issue within the jurisdiction of the Town Council, except for items scheduled for a Public Hearing at this meeting. The speaker may have up to three minutes to speak. Any persons wishing to address the Council must complete a speaker card located outside the Council Chambers and deliver it to the Town Clerk prior to the commencement of the meeting. Individuals addressing a meeting at the Call to the Public will not be provided with electronic technology capabilities beyond the existing voice amplification and recording capabilities in the facilities and the Town's overhead projector/document reader. Pursuant to the Arizona Open Meeting Law, at the conclusion of Call to the Public, individual members of the Council may respond to criticism made by those who have addressed the Council, and may ask staff to review the matter, or may ask that the matter be placed on a future agenda.

PROCLAMATIONS

1 Proclaiming July, 2016 as Parks and Recreation Month (Jocelyn C. Bronson)

MAYOR AND COUNCIL REPORTS: SUMMARY OF CURRENT EVENTS

MANAGER'S REPORT: SUMMARY OF CURRENT EVENTS

PRESENTATIONS

P1 Relating to Intergovernmental Relations; report from the Town's lobbyist, Triadvocates, regarding the 2016 session of the Arizona state legislature and related intergovernmental affairs, including current and future legislative trends (Gilbert Davidson)

CONSENT AGENDA

The Consent Agenda contains items requiring action by the Council which are generally routine items not requiring Council discussion. A single motion and affirmative vote will approve all items on the Consent Agenda, including any resolutions or ordinances. Prior to a motion to approve the Consent Agenda, any Council member may remove any item from the Consent Agenda and that item will be discussed and voted upon separately.

C1 Resolution No. 2016-059: Relating to Elections; approving and authorizing the Mayor to execute an intergovernmental agreement between the Town of Marana and Pima County on behalf of the Pima County Recorder for election services (Jocelyn C. Bronson)

C2 Resolution No. 2016-060: Relating to Development; approving a release of assurances for Marana 59 subdivision and accepting public improvements for maintenance (Keith Brann)

C3 Resolution No. 2016-061: Relating to Development; approving a release of assurances for Saguaro Springs Block 4 as modified by Saguaro Bloom Block 4 and accepting public improvements for maintenance (Keith Brann)

C4 Resolution No. 2016-062: Relating to Intergovernmental Relations; approving and authorizing the Town Manager to execute a Lobbying Services Agreement with Triadvocates, LLC for fiscal years 2016-2017 and 2017-2018 (Tony Hunter)

C5 Resolution No. 2016-063: Relating to Municipal Court; approving and authorizing the Mayor to execute an intergovernmental agreement between the Town of Marana and Pima County for provision of video-court hearings of municipal prisoners for 2016-2017 (Laine Sklar)

C6 Resolution No. 2016-064: Relating to Economic Development; approving and authorizing the Mayor to execute a funding agreement between the Town of Marana and the Marana Chamber of Commerce, Inc. for fiscal year 2016-2017 to support operation of the Marana Visitor Center and provision of services to the Marana community (Curt Woody)

C7 Resolution No. 2016-065: Relating to the Police Department; exempting undercover vehicles used by the Marana Police Department in felony investigations or activities of a confidential nature from Arizona state laws related to the designation of political subdivision motor vehicles; authorizing the Chief of Police to renew existing vehicle registrations for these undercover police vehicles and to obtain vehicle registrations for new undercover police vehicles to be used in felony investigations or activities of a confidential nature (Libby Shelton)

C8 Approval of June 7, 2016 Regular Council Meeting Minutes (Jocelyn C. Bronson)

LIQUOR LICENSES

BOARDS, COMMISSIONS AND COMMITTEES

COUNCIL ACTION

A1 PUBLIC HEARING: Resolution No. 2016-066: Relating to Budget; adopting the Town of Marana's fiscal year 2016-2017 final budget (Erik Montague)

A2 PUBLIC HEARING: Relating to Alternative Expenditure Limitation (Home Rule Option); public hearing pursuant to A.R.S. section 41-563.01 regarding the proposed extension of the alternative expenditure limitation for the Town of Marana (Erik Montague)

A3 Ordinance No. 2016.007: Relating to Finance; exempting the Community Food Bank, Inc.'s Marana Community Food Bank expansion project from certain Town of Marana development and building fees (Lisa Shafer)

A4 Ordinance No. 2016.008: Relating to Development; adopting the 2016 Marana Subdivision Street Standards and the 2016 Marana Standard Details; and establishing an effective date (Keith Brann)

Resolution No. 2016-067: Relating to Development; declaring as a public record filed with the Town Clerk the amendments adopted by Ordinance No. 2016.008, adopting the 2016 Marana Subdivision Street Standards and the 2016 Marana Standard Details (Keith Brann)

A5 Resolution No. 2016-068: Relating to Utilities; adopting the Marana Water Reclamation Facility Master Plan (John Kmiec)

A6 PUBLIC HEARING: Resolution No. GFCFD 2016-02: [Marana Town Council acting as the Gladden Farms Community Facilities District Board of Directors]: A Resolution of the District Board of the Gladden Farms Community Facilities District, Pima County, Arizona, approving the final budget for the Gladden Farms Community Facilities District for the fiscal year beginning July 1, 2016 and ending June 30, 2017 (Erik Montague)

A7 PUBLIC HEARING: Resolution No. GFCFD2 2016-02: [Marana Town Council acting as the Gladden Farms (Phase II) Community Facilities District Board of Directors]: A Resolution of the District Board of the Gladden Farms (Phase II) Community Facilities District, Pima County, Arizona, approving the final budget for the Gladden Farms (Phase II) Community Facilities District for the fiscal year beginning July 1, 2016 and ending June 30, 2017 (Erik Montague)

A8 PUBLIC HEARING: Resolution No. SSCFD 2016-02: [Marana Town Council acting as the Saguaro Springs Community Facilities District Board of Directors]: A Resolution of the District Board of the Saguaro Springs Community Facilities District, Pima County, Arizona, approving the final budget for the Saguaro Springs Community Facilities District for the fiscal year beginning July 1, 2016 and ending June 30, 2017 (Erik Montague)

A9 PUBLIC HEARING: Resolution No. VFCFD 2016-02: [Marana Town Council acting as the Vanderbilt Farms Community Facilities District Board of Directors]: A Resolution of the District Board of the Vanderbilt Farms Community Facilities District, Pima County, Arizona, approving the final budget for the Vanderbilt Farms Community Facilities District for the fiscal year beginning July 1, 2016 and ending June 30, 2017 (Erik Montague)

ITEMS FOR DISCUSSION/POSSIBLE ACTION

D1 Relating to Legislation and Government Actions; discussion and possible action regarding all pending state, federal, and local legislation/government actions and on recent and upcoming meetings of the other governmental bodies (Gilbert Davidson)

EXECUTIVE SESSIONS

Pursuant to A.R.S. § 38-431.03, the Town Council may vote to go into executive session, which will not be open to the public, to discuss certain matters.

E1 Executive Session pursuant to A.R.S. §38-431.03 (A)(3), Council may ask for discussion or consultation for legal advice with the Town Attorney concerning any matter listed on this agenda.

FUTURE AGENDA ITEMS

Notwithstanding the mayor's discretion regarding the items to be placed on the agenda, if three or more Council members request that an item be placed on the agenda, it must be placed on the agenda for the second regular Town Council meeting after the date of the request, pursuant to Marana Town Code Section 2-4-2(B).

ADJOURNMENT

Council-Regular Meeting **1**

Meeting Date: 06/21/2016

Submitted For: Jocelyn C. Bronson, Town Clerk

From: Suzanne Sutherland, Assistant to the Town Clerk

Date: June 21, 2016

Subject: Proclaiming July, 2016 as Parks and Recreation Month (Jocelyn C. Bronson)

Attachments

July 2016 Parks and Recreation Month

PROCLAMATION

Parks and Recreation Month 2016

WHEREAS parks and recreation programs are an integral part of communities throughout this country; and

WHEREAS the recreation opportunities that our parks provide are vitally important to establishing and maintaining quality of life, ensuring the health of all citizens and contributing to the economic and environmental well-being of a community; and

WHEREAS parks and recreation programs traditionally increase a community's economic prosperity through increased tourism, by attracting and retaining businesses and reducing crime; and

WHEREAS parks and natural recreation areas improve water quality, protect groundwater, prevent flooding, provide vegetative buffers to development and produce habitat for wildlife; and

WHEREAS our parks and natural recreation areas help ensure the ecological beauty of our community and provide a place for children and adults to connect with nature and the outdoors.

NOW THEREFORE, the Mayor and Council of the Town of Marana do recognize and celebrate the benefits derived from parks and recreation resources and proclaim

July, 2016 Parks and Recreation Month

and urge all citizens to use and care for the many parks and recreation facilities available throughout our community.

Dated this 21st day of June, 2016.

Ed Honea

Mayor Ed Honea

ATTEST:

Jocelyn C. Bronson

Jocelyn C. Bronson, Town Clerk

Council-Regular Meeting **P1**

Meeting Date: 06/21/2016

To: Mayor and Council

Submitted For: Gilbert Davidson, Town Manager

From: Anthony Hunter, Management Assistant

Date: June 21, 2016

Strategic Plan Focus Area:
Commerce, Not Applicable

Strategic Plan Focus Area Additional Info:
Commerce Focus Area, Principle Statement 3 - We will seek and retain diverse industries and commerce in order to promote sustainable economic health

- Initiative 19 - Market the Town's high quality K-12 education as a compelling factor for families relocating as part of business/industry recruitment efforts
  - (c) - Collaborate on legislative agenda and advocacy where mutually beneficial
- Initiative 26 - Develop partnerships throughout the state and region to assist Marana in commercial and industrial development activities
  - (b) - Identify legislative needs; develop draft language; engage in legislative advocacy to support efforts to attract, retain and expand commerce and industry

Subject: Relating to Intergovernmental Relations; report from the Town's lobbyist, Triadvocates, regarding the 2016 session of the Arizona state legislature and related intergovernmental affairs, including current and future legislative trends (Gilbert Davidson)

Discussion:

Triadvocates LLC has been performing lobbying services for the Town over many legislative sessions. Their experience in the field of Arizona politics and policy provides keen insights into current and future legislative trends. This presentation will contain a summary of the most recent session, including any important pieces of legislation, and the implications for local governments. In addition, there will be a discussion of forecasts of political and policy trends for the coming months and year.

Financial Impact:

Presentation only.

Staff Recommendation:
Presentation only.

Suggested Motion:
Presentation only.

Attachments

No file(s) attached.

Council-Regular Meeting **C1**

Meeting Date: 06/21/2016

To: Mayor and Council

From: Jocelyn C. Bronson, Town Clerk

Date: June 21, 2016

Strategic Plan Focus Area:
Community

Subject: Resolution No. 2016-059: Relating to Elections; approving and authorizing the Mayor to execute an intergovernmental agreement between the Town of Marana and Pima County on behalf of the Pima County Recorder for election services (Jocelyn C. Bronson)

Discussion:

From time to time, the Town of Marana contracts with the Pima County Recorder's Office for assistance in the preparation and conduct of primary and general elections for the Town Council and other special elections or consolidated elections. The last intergovernmental agreement (IGA) expired after the 2013 election cycle.

This agreement reflects the updated fee and payment schedules and covers the period beginning May 15, 2016 through the completion of all obligations and activities association with the August 30, 2016 and November 8, 2016 elections.

Financial Impact:

Fiscal Year:	2017
Budgeted Y/N:	Yes
Amount:	$138,000

The total financial impact of this agreement will be determined by multiple factors, including voter turnout rate in the 2016 primary and general elections. The amount budgeted in fiscal year 2016-2017 includes funding for both the primary and general elections. A complete fee schedule for the Pima County Recorder's Office for election services is included as an exhibit to the proposed agreement.

Staff Recommendation:

Staff recommends adoption of Resolution No. 2016-059, approving and authorizing the Mayor to execute the intergovernmental agreement with the Pima County Recorder's Office for election services.

Suggested Motion:

I move to adopt Resolution No. 2016-059, approving and authorizing the Mayor to execute an intergovernmental agreement between the Town of Marana and Pima County on behalf of the Pima County Recorder for election services.

Attachments

Resolution No. 2016-059

IGA election services

MARANA RESOLUTION NO. 2016-059

RELATING TO ELECTIONS; APPROVING AND AUTHORIZING THE MAYOR TO EXECUTE AN INTERGOVERNMENTAL AGREEMENT BETWEEN THE TOWN OF MARANA AND PIMA COUNTY ON BEHALF OF THE PIMA COUNTY RECORDER FOR ELECTION SERVICES

WHEREAS the Town desires to enter into an Intergovernmental Agreement with the Pima County Division of Elections to prepare for and conduct a primary election to be held on August 30, 2016 and a general election to be held on November 8, 2016; and

WHEREAS the Pima County Recorder is willing to provide election services for the Town's elections based on the terms set forth in the intergovernmental agreement for election services which is the subject of this resolution; and

WHEREAS the Town and Pima County may contract for services and enter into agreements with one another for joint or cooperative action pursuant to A.R.S. § 11-952, *et seq.*; and

WHEREAS the Mayor and Council of the Town of Marana find it is in the best interests of its citizens to enter into this intergovernmental agreement.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND COUNCIL OF THE TOWN OF MARANA, that the intergovernmental agreement between the Town of Marana and Pima County on behalf of the Pima County Recorder attached to and incorporated by this reference in this resolution as Exhibit A is hereby approved, and the Mayor is hereby authorized and directed to execute it for and on behalf of the Town of Marana.

IT IS FURTHER RESOLVED that the Town's Manager and staff are hereby directed and authorized to undertake all other tasks necessary to carry out the terms and objectives of the intergovernmental agreement.

PASSED and ADOPTED by the Mayor and Council of the Town of Marana, Arizona, this 21st day of June 2016.

Mayor Ed Honea

ATTEST:

Jocelyn C. Bronson, Town Clerk

APPROVED AS TO FORM:

Frank Cassidy, Town Attorney

PIMA COUNTY RECORDER 2016 ELECTION SERVICES WITH THE TOWN OF MARANA **ESTIMATED INCOME: $10,000.00*** **FUNDING: The Town of Marana** *** estimated for both elections within this IGA**	(STAMP HERE)

INTERGOVERNMENTAL AGREEMENT

For Election Services
Among The Town of Marana and Pima County

This Intergovernmental Agreement (IGA) is by and among THE TOWN OF MARANA OF PIMA COUNTY, ARIZONA, a municipal corporation of the State of Arizona ("the TOWN") and PIMA COUNTY, a political subdivision of the State of Arizona ("the County"), on behalf of the PIMA COUNTY RECORDER ("the Recorder").

RECITALS

1. The Town, pursuant to A.R.S. §§ 9-231(A) and 16-204 will prepare for and conduct two elections: a Primary Election to be held on August 30, 2016 and a General Election to be held on November 8, 2016.

2. A.R.S. §§ 16-205(C), 16-172, 11-251(3), 16-450, and 16-405 *et seq.* authorize the County to perform services for any political subdivision regarding elections.

3. A.R.S. § 16-172 authorizes any political subdivision conducting elections to utilize the County registration rolls upon reimbursement to the Recorder for actual expenses in furnishing voter registration data to the subdivision.

4. A.R.S. § 16-408(D) permits the governing body of any election district authorized to conduct an election to enter into an Agreement with the Board of Supervisors and Recorder for election services, with the contracted cost being a charge against the election district.

5. The parties are authorized to enter into an intergovernmental agreement pursuant to A.R.S. § 11-952 *et seq.*

6. The TOWN desires to utilize the Pima County registration rolls and other election-related services provided by the Recorder for the Primary Election to be held on August 30, 2016 and a General Election to be held on November 8, 2016.

7. The TOWN, the County and the Recorder have determined that it is in the best interest of the public for the TOWN to use the services of the Recorder in conducting the elections called for August 30, 2016 and November 8, 2016.

8. NOW, THEREFORE, the parties hereto agree as follows:

The purpose of this IGA is to set forth the duties and responsibilities of the Recorder and the TOWN with respect to the August 30, 2016 and November 8, 2016 elections to be held by the TOWN of Marana.

ARTICLE I - TERM AND EXTENSION/RENEWAL/CHANGES

The term of this IGA shall be from May 15, 2016 through completion of all obligations and activities associated with the August 30, 2016 and November 8, 2016 elections contemplated by this IGA, provided that the term shall continue through final resolution of any legal challenge to the election. Any modifications or time extension of this IGA shall be by formal written amendment and executed by the parties.

Amendments to the Agreement must be approved by the Board of Supervisors as required by the Pima County Procurement code, before any work or deliveries under the Amendment commences.

ARTICLE II – SCOPE OF SERVICES

This Agreement establishes the agreement under which the County will provide the TOWN with Election services in accordance with the following:

County Recorder Services: The Recorder shall:

(1) For the Primary election on August 30, 2016, all Marana voters who are members of a recognized political party and are on the Permanent Early Voting List (PEVL) will receive a normal primary ballot that will include all of the Marana candidates.

(2) For the Primary election on August 30, 2016, all Marana voters who are not affiliated with one of the recognized political parties and are on the PEVL will have the option of choosing one of the following:
   a. any of the partisan ballots that will include all of the Marana candidates.
   b. a ballot that will have ONLY the Marana candidates on it.

(3) All non-affiliated PEVL voters from Marana will receive a special 90-day notice letting them know their options for the Primary election.

(4) Provide Deputy County Recorders for team early voting when necessary for Marana ONLY voters during the Primary election on August 30, 2016 and give the TOWN notice of each request for team early voting.

(5) Prepare and deliver a single invoice to the TOWN no later than 21 days after the final election date, containing a detailed breakdown of all Recorder costs for these elections.

TOWN Obligations: TOWN shall:

(1) Notify the Recorder in writing, at least 120 days or at such other time as the parties may agree before any consolidated election date on which the TOWN wants services pursuant to this IGA, detailing the election-related services pursuant to this IGA.

(2) Prepare and distribute any requisite translation, printing, and mailing of all publicity pamphlets.

(3) Should the election be challenged or questioned for any reason whatsoever, then the TOWN shall be solely responsible for defending, legally or otherwise, said elections. This duty shall survive the expiration of the IGA, provided that the County shall cooperate with the TOWN in making relevant information and witnesses available upon reasonable request.

(4) Within 30 days of the date of each invoice, the TOWN shall reimburse the County, in full, for invoiced costs of election materials, supplies and equipment, and personnel required in direct support of the TOWN election, as set forth below.

(5) Be responsible for the security of all ballots tabulated by officials and vendors other than Pima County's agents or employees and ensure that any functions performed by TOWN or its outside vendors comply with applicable law and procedures of the Secretary of State.

(6) Arrange for and publish any and all notices of this election as required by law.

ARTICLE III – COMPENSATION AND PAYMENT

Within thirty (30) days of the date of invoice, TOWN will pay the Pima County Recorder:

(1) The following charges will only apply to any Primary Election ballots provided to unaffiliated Marana Voters who request a Marana ONLY ballot:

a. Permanent Early Voting List (PEVL) Ballots	$3.00 each
b. Non-PEVL ballot requests	$5.75 each
c. Early Ballot Signature verification	$0.75 each
d. Satellite Ballots	$2.00 each
e. Replacement Ballots – By Mail	$3.00 each
f. Provisional Ballots	$16.00 each
g. Conditional Provisional Ballots	$6.00 each
h. Team Voting	$60.00 per request
i. Problem Ballots – includes calling the voter, sending them a letter	$6.00 each

(2) For both elections, a Consolidated Election Participation Fee – per active voter for each election $0.10 each

(3) For both elections a Voter Registration Maintenance Fee- for each election

Per Active Voter	$0.05
Per Inactive Voter	$0.05

(4) Computer programming as required for additional voter data at $50.00 per hour, one hour minimum.

(5) Any other costs associated with services provided for the conduct of the Election(s), as set forth in Pima County Fee Ordinance 2016-10 which is attached hereto as Exhibit A.

(6) Invoices not paid within 30 days of billing date will accrue interest at the rate of 10% per annum.

ARTICLE IV – INSURANCE

All parties to this agreement are government entities. Neither entity is required to procure special insurance coverage for their obligations under this IGA.

ARTICLE V - INDEMNIFICATION

Each party (as Indemnitor) agrees to indemnify, defend and hold harmless the other party (as Indemnitee) from and against any and all claims, losses, liability, costs or expenses (including reasonable attorney's fees) (hereinafter collectively referred to as "claims") arising out of bodily injury of any person (including death) or property damage, but only to the extent that such claims which result in vicarious/derivative liability to the

Indemnitee, are caused by the act, omission, negligence, misconduct, or other fault of the Indemnitor, its officers, officials, agents, employees, or volunteers.

ARTICLE VI - COMPLIANCE WITH LAWS

The parties shall comply with all federal, state and local laws, rules, regulations, standards and Executive Orders, without limitation to those designated within this Agreement. The laws and regulations of the State of Arizona shall govern the rights of the parties, the performance of this Agreement and any disputes hereunder. Any action relating to this Agreement shall be brought in an Arizona court in Pima County. Any changes in the governing laws, rules and regulations during the terms of this Agreement shall apply but do not require an amendment.

ARTICLE VII – WORKERS' COMPENSATION

Each party shall comply with the notice of A.R.S. § 23-1022(E). For purposes of A.R.S. § 23-1022, each party shall be considered the primary employer of all personnel currently or hereafter employed by that party, irrespective of the operations of protocol in place, and such party shall have the sole responsibility of the payment of Workers' Compensation benefits or other fringe benefits of said employees.

ARTICLE VIII - ASSIGNMENT

The TOWN shall not assign its rights to this Agreement, in whole or in part, without prior written approval of the COUNTY. Approval may be withheld at the sole discretion of COUNTY, provided that such approval shall not be unreasonably withheld.

ARTICLE IX - NON-DISCRIMINATION

The TOWN shall not discriminate against any County employee, client or any other individual in any way because of that person's age, race, creed, color, religion, sex, disability or national origin in the course of carrying out duties pursuant to this IGA. The TOWN shall comply with the provisions of Executive Order 2009-09, including flow down of all provisions and requirements to any subcontractors. Executive Order 2009-09 supersedes Executive order 99-4 and amends Executive Order 75-5 and may be viewed and downloaded at the Governor or the State of Arizona's website http://www.azgovernor.gov/dms/upload/EO_2990_90.pdf which is hereby incorporated into this Agreement by reference, as if set forth in full herein.

ARTICLE X - AMERICANS WITH DISABILITIES ACT

The parties shall comply with all applicable provisions of the Americans with Disabilities Act (Public Law 101-336, 42 U.S.C. §§ 12101-12213) and all applicable federal regulations under the Act, including 28 C.F.R. Parts 35 and 36.

ARTICLE XI - AUTHORITY TO CONTRACT

No party warrants to any other party its legal authority to enter into this IGA. If a court, at the request of a third person, should declare that any party lacks authority to enter into this IGA, or any part of it, then the IGA, or parts of it affected by such order, shall be null and void, and no recovery may be had by any party against the other for lack of performance or otherwise.

ARTICLE XII - FULL AND COMPLETE PERFORMANCE

The failure of either party to insist on one or more instances upon the full and complete performance with any of the terms or conditions of this Agreement to be performed on the part of the other, or to take any action permitted as a result thereof, shall not be construed as a waiver or relinquishment of the right to insist upon full and complete performance of the same, or any other covenant or condition, either in the past or in the future.

The acceptance by either party of sums less than may be due and owing it at any time shall not be construed as an accord and satisfaction.

ARTICLE XIII - CANCELLATION FOR CONFLICT OF INTEREST

This Agreement is subject to cancellation for conflict of interest pursuant to A.R.S. § 38-511, the pertinent provisions of which are incorporated into this Agreement by reference.

ARTICLE XIV – TERMINATION

Notwithstanding any other provision in this IGA, this IGA may be terminated if for any reason the County Board of Supervisors or the Marana Town Council does not appropriate sufficient monies for the purpose of maintaining this IGA. In the event of such cancellation, neither the County, nor the County Recorder shall have any further obligation to the TOWN. In the event that the TOWN cancels, the TOWN shall be liable for any costs already incurred by the County or the County Recorder at the time of the notification of the cancellation.

ARTICLE XV - NOTICE

Any notice required or permitted to be given under this Agreement shall be in writing and shall be served by personal delivery or by certified mail upon the other party as follows:

PIMA COUNTY
F. Ann Rodriguez
Pima County Recorder
240 N Stone Avenue
Tucson, AZ 85701
(520) 724-4356
Fax: (520) 623-1785

TOWN OF MARANA
Jocelyn C. Bronson,
Town Clerk
11555 W. Civic Center Dr.
Marana, AZ 85653
(520) 382-1960
Fax: (520) 382-1998

ARTICLE XVI – NO THIRD PARTY BENEFICIARIES

Nothing in the provisions of this IGA is intended to create duties or obligations to or rights in third parties not parties to this IGA, or affect the legal liability of any party to the IGA by imposing any standard of care different from the standard of care imposed by law.

ARTICLE XVII – NO JOINT VENTURE

This IGA is not intended to, and this IGA shall not be construed to, create any partnership, joint venture or employment relationship between the parties or create any employer-employee relationship between County or Recorder and any TOWN employees, or between the TOWN and any County employees. No party shall be liable for any debts, accounts, obligations nor other liabilities whatsoever of any other party, including (without limitation) any other party's obligation to withhold Social Security and income taxes for itself or any of its employees.

ARTICLE XVIII - REMEDIES

Either party may pursue any remedies provided by law for the breach of this Agreement. No right or remedy is intended to be exclusive of any other right or remedy and each shall be cumulative and in addition to any other right or remedy existing at law or at equity or by virtue of this Agreement.

ARTICLE XIX - SEVERABILITY

Each provision of this IGA stands alone, and any provision of this IGA found to be prohibited by law will be ineffective to the extent of such prohibition without invalidating the remainder of this IGA.

ARTICLE XX – LEGAL ARIZONA WORKERS ACT COMPLIANCE

The COUNTY and TOWN hereby warrant that they will at all times during the term of this Agreement comply with all federal immigration laws and with the requirements of A.R.S. § 23-214(A) (together the "State and Federal Immigration Laws").

ARTICLE XXI - ENTIRE AGREEMENT

This document constitutes the entire agreement between the parties pertaining to the subject matter hereof, and all prior or contemporaneous agreements and understandings, oral or written, are hereby superseded and merged herein. This IGA shall not be modified, amended, altered or extended except through a written amendment signed by the parties.

IN WITNESS WHEREOF, the parties hereby have executed this Agreement on this _____ day of _____, 2016.

TOWN OF MARANA

By:_____
Mayor

ATTEST:

By:_____
Town Clerk

PIMA COUNTY BOARD OF SUPERVISORS

By:_____
Chair

ATTEST:

By:_____
Clerk of the Board of Supervisors

APPROVED AS TO CONTENT:

By: _____
F. Ann Rodriguez, Pima County Recorder

The foregoing Intergovernmental Agreement between The Town of Marana, Pima County and the Pima County Recorder has been reviewed pursuant to A.R.S. § 11-952 by the undersigned, who have determined that it is in the proper form and is within the powers and authority granted under the laws of the State of Arizona to those parties to the Intergovernmental Agreement represented by the undersigned.

Pima County and Pima County Recorder

_____
Daniel Jurkowitz
Deputy County Attorney

Town of Marana

_____
Legal Services Director for the Town of Marana

F. ANN RODRIGUEZ, RECORDER
Recorded By: GMS
DEPUTY RECORDER
4933
P0230
PIMA CO CLERK OF THE BOARD
PICKUP

SEQUENCE: 20160490531
NO. PAGES: 10
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ORDINANCE NO. 2016- 10

AN ORDINANCE OF THE BOARD OF SUPERVISORS OF PIMA COUNTY, ARIZONA ESTABLISHING FEES FOR ELECTION-RELATED SERVICES, VOTER REGISTRATION DATA AND RECORDED DOCUMENT SERVICES PROVIDED BY THE PIMA COUNTY RECORDER.

The Board of Supervisors of Pima County Arizona finds that:

1. The Pima County Recorder is authorized pursuant to A.R.S. §§16-172, 16-168(E), 11-475, and 11-251.08 to charge for election related services, voter registration data, and recorded document services; and,
2. The Pima County Board of Supervisors has determined that the charges are appropriate and necessary to cover the costs incurred by the Pima County Recorder in providing these services; and,
3. The Pima County Board of Supervisors has the authority under A.R.S. §11-251.05 to adopt all ordinances necessary or proper to carry out the functions of the County.

NOW THEREFORE, BE IT ORDAINED BY THE BOARD OF SUPERVISORS OF PIMA COUNTY, ARIZONA:

SECTION 1: It is the intent of this Ordinance to establish fees for election-related services, voter registration data, and recorded document services provided by the Pima County Recorder in an amount sufficient to defray costs.

SECTION 2: Fees charged by the Pima County Recorder shall be as follows:

SEE EXHIBIT A ATTACHMENT

SECTION 3: This Ordinance shall take effect thirty days from the date of adoption.

SECTION 4: If any provision of this Ordinance or the application thereof to any person or circumstance is invalid, the invalidity shall not affect other provisions or applications of this Ordinance, which can be given meaning without the invalid provision.

PASSED AND ADOPTED THIS 16TH DAY OF FEBRUARY, 2016.

PIMA COUNTY BOARD OF SUPERVISORS

FEB 16 2016

Chair, Board of Supervisors

ATTEST:

Robin Brigode, Clerk of the Board

APPROVED AS TO FORM:

Daniel Jurkowitz, Deputy County Attorney

REVIEWED BY:

F. Ann Rodriguez, Pima County Recorder

Mailing Address
P. O. Box 3145
Tucson, AZ 85702-3145

County Public Service Center
240 North Stone Avenue, 1st Floor
Tucson, AZ

F. Ann Rodriguez
Pima County Recorder

Recording history one document at a time.

Christopher J. Roads
Chief Deputy Recorder
Registrar of Voters
Document Recording: (520) 724-4350
Voter Registration: (520) 724-4330
Fax: (520) 623-1785
www.recorder.pima.gov

PIMA COUNTY RECORDER'S CHARGES

ELECTION COSTS

For Conducting Jurisdictional Elections (i.e., Cities, Towns, School Districts, Fire Districts, etc.)

POLLING PLACE ELECTIONS

Early Ballot Processing	$5.75 each★
Permanent Early Voting List (PEVL) Ballots	$3.00 each★
Early Ballot Signature Verification	$0.75 per signature
Replacement Ballots – Satellite Location	$2.00 each
Replacement Ballots – By Mail	$3.00 each
Problem Ballots – includes calling the voter, sending them a letter	$6.00 each
Signature Roster Printing (per precinct)	$25.00 each
Provisional Ballots	$16.00 each
Conditional Provisional Ballots	$6.00 each
Regular Hours	$20.85 per hour
Overtime Hours	$31.27 per hour
Remote Site Computer linked	$400.00 flat fee
Remote Site Not computer linked	$200.00 flat fee

ALL BALLOT-BY-MAIL ELECTIONS

Mailing of Ballots to Every Active Voter	$2.30 each★
Replacement Ballots – Satellite Location	$2.00 each
Replacement Ballots – By Mail	$3.00 each
Problem Signature Ballots – inc. calling the voter, sending them a letter	$6.00 each
Signature Verification	$0.75 per signature

OTHER APPLICABLE ELECTION FEES

Voter Registration Maintenance Fee for Active and Inactive Voters	$0.05 per voter
Consolidated Election Participation Fee for Active Voters	$0.10 per voter♦♦
Team Voting	$60.00 per request➢

Special Inserts:

Single Page – 8 ½ x 4 ½ " (20 lb. paper minimum)	$0.02 per ballot
Multiple pages or larger than 8 ½ x 4 ½ " (may also result in additional postage cost for Mailed ballot package due to increased weight)	$0.05 per ballot

PLUS actual cost for insert printing by vendor

Mileage will be charged at actual cost based on Pima County Fleet Services Department Motor Pool Charges.

★ Includes postage fees for both the mailing of the ballot package and the return mail of the voted ballot. If postage rate hikes imposed by the United States Postal Service go into effect after the approved date of this Ordinance and Fee Schedule it may result in a fee increase in the same amount.

♦♦ Consolidated Election Participation Fee for Early Ballots include: mailing of the 90-day notification of elections, maintenance fee of the Permanent Early Voting List (PEVL), National Change of Address (NCOA) returned mail notifications.

➢ Emergency voting in hospitals, rest homes, care facilities, etc., for homebound voters, voters unable to note in polling location, and those who need assistance voting their ballot due to medical reasons.

JURISDICTIONAL BOUNDARY CHANGES MAPPING

Computer Coding	$50.00 Per Annexation
Map Geocoding (1 hour Minimum)	$25.00 Per Hour

VOTER REGISTRATION DATA

The fee for a copy of the voter data provided to political parties is set in A.R.S. §16-168(E). That fee is currently $0.01 per name for the data in electronic form and $0.05 per name for data in paper form.

The fee for data in formats other than provided to the political parties is $0.10 per name.

In addition to the statutory fees for voter data provided in A.R.S. §16-168(E), the following fees will be charged per voter record:

Additional District Assignment Information	$ .01
Voting History	.02
Voter Change History	.02
Age of Voter	.02
Computer Programming for additional information	
Per hour, 1 hour minimum	50.00
Copying fee – includes redaction of confidential data	1.00
Certification of Voter Registration	10.00 per certification
Replacement of Voter ID Card In Office	5.00 each

RECORDER'S SUBSCRIPTION FEES

Bulk Purchases of Current Images and Data
Minimum of $5,000.00 to start up a new account with $50.00 applied to a non-refundable set-up fee and the balance applied to the pre-paid balance.

For accessing images of recorded documents on the Pima County Recorder's secure web site, the following subscription fees will apply:

Bulk Purchase of all document images	$0.04 per image
Bulk Purchase of all daily indexing	0.03 per index
Bulk Purchase of cross references for indexing	0.03 per index
Bulk Purchase of images of selected document types	0.07 per image
Bulk Purchase of selected index types	0.07 per index
Bulk Purchase of selected cross reference types	0.07 per index

One Time Bulk Purchases of Historical Images and Data

One Time Bulk Purchase of all historical document images	$0.05 per image
One Time Bulk Purchase of all historical daily indexes	0.04 per index
One Time Bulk Purchase of all historical cross references	0.04 per index
One Time Bulk Purchase of selected historical document images	$0.08 per image
One Time Bulk Purchase of selected historical daily indexes	0.08 per index
One Time Bulk Purchase of selected historical cross references	0.08 per index

Web Subscriber Services
Minimum of $100.00 to start up a new account with $50.00 applied to a non-refundable set-up fee and $50.00 applied to the pre-paid balance.

Web access to individual document images	$ 0.24 per document
Web access to individual map images	3.00 per image

Additional fees for recorded documents

Fee to return documents improperly submitted for recordation	$5.00 per document
Blank recording forms	$3.00 per form

2% convenience fee on all credit and debit card transactions

CANDIDATE EARLY BALLOT LISTS FEE SCHEDULE
PRIMARY ELECTIONS – State and Federal Elections, Countywide Special Elections

1. Early Ballot request data for State and Federal Primary Elections.
2. Number of Registered Voters determined on the 60th day preceding the Primary Election.
3. Prices shown in Columns 2 and 3 are per Party Affiliation: *Democrat*, *Republican* and/or *Others*.
4. Fees will be calculated in the following manner:
   a. Determine which Party data are desired (*Democrats*, *Republicans* and/or *Others*).
   b. Determine how many Voters of *each* Party are registered in the desired District using the figures from the Recorder's website.
   c. Find the row containing that number in Column 1. Use the Price Per Party Affiliation figures in Column 2 for the Early Ballot List, and the figures in Column 3 for the Returned Ballot List.
   d. EXAMPLE: Candidate John Doe subscribes to the list of all Democrats and Independents who request an Early Ballot in his District. There are 173,280 Democrats and 92,621 Independents. Using the schedule below, Mr. Doe will pay $360.00 for Democrats plus $200.00 for Others for the Early Ballot List. If he decides he wants to also purchase the Returned Ballot List, he will add an additional $190.00 for Democrats plus $110.00 for Others. His total for the subscription will be $860.00.
5. **If the request is for all political parties and Others, and all such ballot returns, then the maximum charge shall be $1,020.00.**

1. NUMBER OF REGISTERED VOTERS IN DISTRICT	*2. EARLY BALLOT LIST PRICE PER PARTY AFFILIATION*	*3. RETURNED BALLOT LIST PRICE PER PARTY AFFILIATION*
0 – 10,000	$ 20.00	$ 20.00
10,001 – 20,000	40.00	30.00
20,001 – 30,000	60.00	40.00
30,001 – 40,000	80.00	50.00
40,001 – 50,000	100.00	60.00
50,001 – 60,000	120.00	70.00
60,001 – 70,000	140.00	80.00
70,001 – 80,000	160.00	90.00
80,001 – 90,000	180.00	100.00
90,001 – 100,000	200.00	110.00
100,001 – 110,000	220.00	120.00
110,001 – 120,000	240.00	130.00
120,001 – 130,000	260.00	140.00
130,001 – 140,000	280.00	150.00
140,001 – 150,000	300.00	160.00
150,001 – 160,000	320.00	170.00
160,001 – 170,000	340.00	180.00
170,001 – 180,000	360.00	190.00
180,001 – 190,000	380.00	200.00
190,001 – 200,000	400.00	210.00
200,001 – 210,000	420.00	220.00
210,001 – 220,000	440.00	230.00
220,001 – 230,000	460.00	240.00
230,001 – 240,000	480.00	250.00
240,001 – 250,000	500.00	260.00
250,001 – 260,000	520.00	270.00
260,001 – 270,000	540.00	280.00
270,001 – 280,000	560.00	290.00

CANDIDATE EARLY BALLOT LISTS FEE SCHEDULE
GENERAL ELECTIONS – State and Federal Elections, Countywide Special Elections

1. Early Ballot request data for State and Federal General Elections.
2. Number of Registered Voters determined on the 60th day preceding the General Election.
3. Prices shown in Columns 2 and 3 are per Party Affiliation: *Democrat*, *Republican* and/or *Others*.
4. Fees will be calculated in the following manner:
   a. Determine which Party data are desired (*Democrats*, *Republicans* and/or *Others*).
   b. Determine how many Voters of *each* Party are registered in the desired District using the figures from the Recorder's website.
   c. Find the row containing that number in Column 1. Use the Price Per Party Affiliation figures in Column 2 for the Early Ballot List, and the figures in Column 3 for the Returned Ballot List.
   d. EXAMPLE: Candidate John Doe subscribes to the list of all Democrats and Independents who request an Early Ballot in his District. There are 173,280 Democrats and 92,621 Independents. Using the schedule below, Mr. Doe will pay $380.00 for Democrats plus $220.00 for Others for the Early Ballot List. If he decides he wants to also purchase the Returned Ballot List, he will add an additional $360.00 for Democrats plus $200.00 for Others. His total for the subscription will be $1,160.00.
5. **If the request is for all political parties and Others, and all such ballot returns, then the maximum charge shall be $1,380.00.**

1. NUMBER OF REGISTERED VOTERS IN DISTRICT	*2. EARLY BALLOT LIST PRICE PER PARTY AFFILIATION*	*3. RETURNED BALLOT LIST PRICE PER PARTY AFFILIATION*
0 – 10,000	$ 40.00	$ 20.00
10,001 – 20,000	60.00	40.00
20,001 – 30,000	80.00	60.00
30,001 – 40,000	100.00	80.00
40,001 – 50,000	120.00	100.00
50,001 – 60,000	140.00	120.00
60,001 – 70,000	160.00	140.00
70,001 – 80,000	180.00	160.00
80,001 – 90,000	200.00	180.00
90,001 – 100,000	220.00	200.00
100,001 – 110,000	240.00	220.00
110,001 – 120,000	260.00	240.00
120,001 – 130,000	280.00	260.00
130,001 – 140,000	300.00	280.00
140,001 – 150,000	320.00	300.00
150,001 – 160,000	340.00	320.00
160,001 – 170,000	360.00	340.00
170,001 – 180,000	380.00	360.00
180,001 – 190,000	400.00	380.00
190,001 – 200,000	420.00	400.00
200,001 – 210,000	440.00	420.00
210,001 – 220,000	460.00	440.00
220,001 – 230,000	480.00	460.00
230,001 – 240,000	500.00	480.00
240,001 – 250,000	520.00	500.00
250,001 – 260,000	540.00	520.00
260,001 – 270,000	560.00	540.00
270,001 – 280,000	580.00	560.00

CANDIDATE EARLY BALLOT LISTS
FEE SCHEDULE FOR PRIMARY (March) & GENERAL (May) ELECTIONS
Non-State and Non-Federal Elections

POLLING PLACE ELECTIONS

NUMBER OF REGISTERED VOTERS VOTERS IN DISTRICT	*LIST OF EARLY BALLOT REQUESTS*	*LIST OF RETURNED BALLOTS*
0 – 10,000	$ 10.00	$ 10.00
10,001 – 20,000	20.00	10.00
20,001 – 30,000	30.00	20.00
30,001 – 40,000	40.00	30.00
40,001 – 50,000	50.00	40.00
50,001 – 60,000	60.00	50.00
60,001 – 70,000	70.00	60.00
70,001 – 80,000	80.00	70.00
80,001 – 90,000	90.00	80.00
90,001 – 100,000	100.00	90.00
100,001 – 110,000	110.00	100.00
110,001 – 120,000	120.00	110.00
120,001 – 130,000	130.00	120.00
130,001 – 140,000	140.00	130.00
140,001 – 150,000	150.00	140.00
150,001 – 160,000	160.00	150.00
160,001 – 170,000	170.00	160.00
170,001 – 180,000	180.00	170.00
180,001 – 190,000	190.00	180.00
190,001 – 200,000	200.00	190.00
200,001 – 210,000	210.00	200.00
210,001 – 220,000	220.00	210.00
220,001 – 230,000	230.00	220.00
230,001 – 240,000	240.00	230.00
240,001 – 250,000	250.00	240.00
250,001 – 260,000	260.00	250.00
260,001 – 270,000	270.00	260.00
270,001 – 280,000	280.00	270.00

CANDIDATE EARLY BALLOT LISTS
FEE SCHEDULE FOR PRIMARY (March) & GENERAL (May) ELECTIONS
Non-State and Non-Federal Elections

ALL BALLOT-BY-MAIL ELECTIONS

NUMBER OF REGISTERED VOTERS VOTERS IN DISTRICT	*LIST OF EARLY BALLOT REQUESTS*	*LIST OF RETURNED BALLOTS*
0 – 10,000	$ 40.00	$ 20.00
10,001 – 20,000	60.00	40.00
20,001 – 30,000	80.00	60.00
30,001 – 40,000	100.00	80.00
40,001 – 50,000	120.00	100.00
50,001 – 60,000	140.00	120.00
60,001 – 70,000	160.00	140.00
70,001 – 80,000	180.00	160.00
80,001 – 90,000	200.00	180.00
90,001 – 100,000	220.00	200.00
100,001 – 110,000	240.00	220.00
110,001 – 120,000	260.00	240.00
120,001 – 130,000	280.00	260.00
130,001 – 140,000	300.00	280.00
140,001 – 150,000	320.00	300.00
150,001 – 160,000	340.00	320.00
160,001 – 170,000	360.00	340.00
170,001 – 180,000	380.00	360.00
180,001 – 190,000	400.00	380.00
190,001 – 200,000	420.00	400.00
200,001 – 210,000	440.00	420.00
210,001 – 220,000	460.00	440.00
220,001 – 230,000	480.00	460.00
230,001 – 240,000	500.00	480.00
240,001 – 250,000	520.00	500.00
250,001 – 260,000	540.00	520.00
260,001 – 270,000	560.00	540.00
270,001 – 280,000	580.00	560.00

Council-Regular Meeting **C2**

Meeting Date: 06/21/2016

To: Mayor and Council

Submitted For: Keith Brann, Town Engineer

From: Glenn Phillips, Civil Engineering Specialist

Date: June 21, 2016

Strategic Plan Focus Area:
Not Applicable

Subject: Resolution No. 2016-060: Relating to Development; approving a release of assurances for Marana 59 subdivision and accepting public improvements for maintenance (Keith Brann)

Discussion:

Marana 59 is a 58.8 acre subdivision located west of Hartman Lane and south of Linda Vista Boulevard, containing lots 1 - 58. The Town has an Assurance Agreement with D.R. Horton, assuring the completion of public improvements serving Marana 59. D.R. Horton has completed the public improvements acceptable to Town standards in accordance with the Assurance Agreement.

In approving the release of assurances, the Town will accept for maintenance, including maintenance of regulatory traffic control and street signs, approximately 0.70 miles of the following paved streets:

- Jade Hollow Place
- Jade Sky Place
- Jade Rock Place

The Town will also accept for maintenance approximately 3,329 feet of potable water lines with appurtenant meters, valves and hydrants.

Staff Recommendation:

Staff recommends adoption of Resolution 2016-060, releasing the assurances for Marana 59 subdivision and accepting public improvements for maintenance.

Suggested Motion:

I move to adopt Resolution 2016-060, releasing the assurances for Marana 59 subdivision and accepting public improvements for maintenance.

Attachments

Resolution No. 2016-060

Marana 59 Map

MARANA RESOLUTION NO. 2016-060

RELATING TO DEVELOPMENT; APPROVING A RELEASE OF ASSURANCES FOR MARANA 59 SUBDIVISION AND ACCEPTING PUBLIC IMPROVEMENTS FOR MAINTENANCE

WHEREAS the final plat for "Marana 59, Lots 1-58 and Common Areas 'A' (Open Space/Drainage) and 'B' (Natural Undisturbed Open Space)" ("Marana 59") was recorded in the Pima County Recorder's Office on August 8, 2008, at Book 63 of Maps and Plats, Page 90 (Sequence 20081540341); and

WHEREAS the Town has a third party trust substitute assurance agreement (the "Assurance Agreement") with D.R. Horton, Inc. (the "Subdivider") and Title Security Agency of Arizona, LLC, under Trust No. 201434-T, recorded in the Pima County Recorder's office on June 19, 2015, at Sequence Number 20151700177, assuring the completion of public improvements for Marana 59; and

WHEREAS the Subdivider has completed the public improvements for Marana 59 acceptable to Town standards in accordance with the Assurance Agreement.

NOW, THEREFORE, BE IT RESOLVED by the Mayor and Council of the Town of Marana as follows:

Section 1. The Assurance Agreement is hereby released.

Section 2. The Town accepts for maintenance, including maintenance of regulatory traffic control and street signs, approximately 0.70 miles of the following paved streets as shown on the plat of Marana 59:

- Jade Hollow Place
- Jade Sky Place
- Jade Rock Place

Section 3. The Town accepts for maintenance a potable water system including approximately 3,329 linear feet of potable water line, water meters, valves, fire hydrants and appurtenances with an estimated value of $195,000, within or serving Marana 59.

PASSED AND ADOPTED by the Mayor and Council of the Town of Marana, Arizona, this 21st day of June, 2016.

Mayor Ed Honea

ATTEST:

Jocelyn C. Bronson, Town Clerk

APPROVED AS TO FORM:

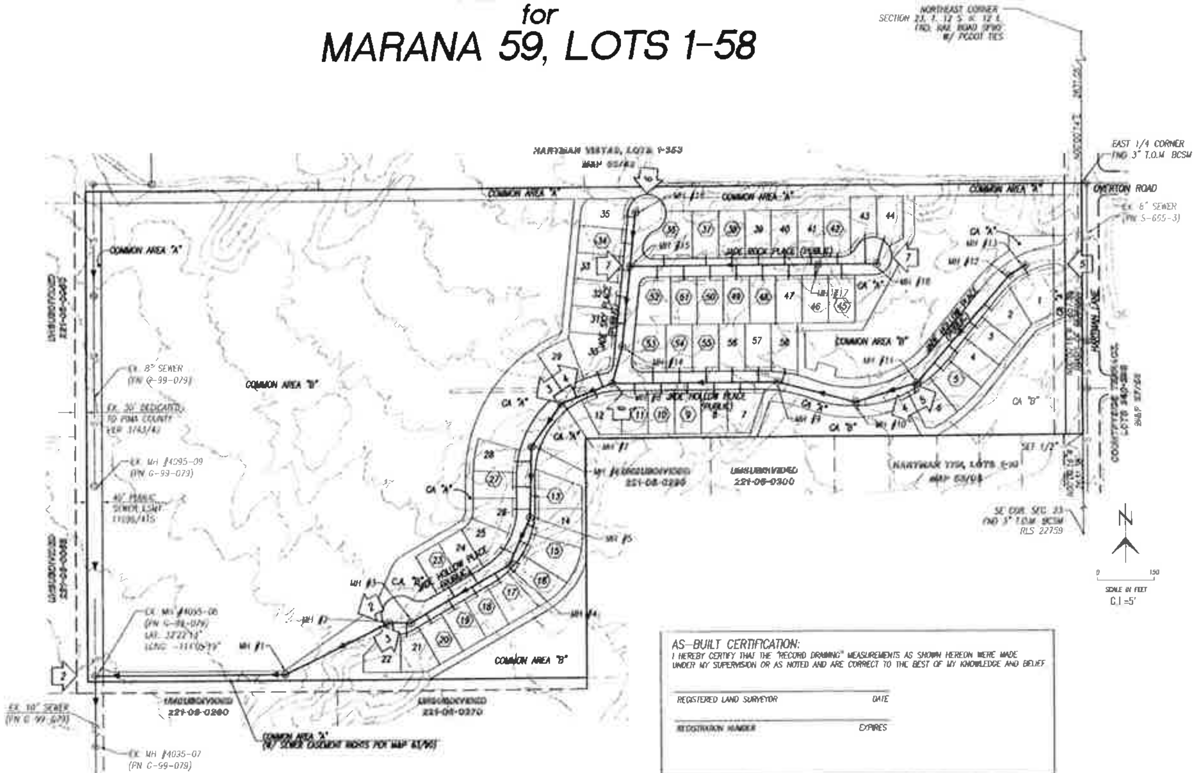
Frank Cassidy, Town Attorney

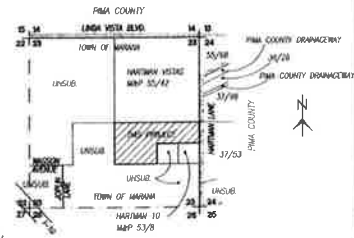
EXHIBIT A

GENERAL NOTES

1. ALL CONSTRUCTION AND TEST METHODS SHALL BE IN CONFORMANCE WITH PIMA COUNTY/CITY OF TUCSON STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS (PC/COT SSPI), 2003 EDITION.
2. BASIS OF BEARING: THE EAST LINE OF THE SOUTHEAST QUARTER OF SECTION 23, TOWNSHIP 12 SOUTH, RANGE 12 EAST, ACCORDING TO THE PLAT OF HARTMAN TEN, RECORDED IN BOOK 55 OF M&P AT PAGE 8, RECORDS OF PIMA CO., AZ. SAID BEARING BEING S00°00'16"E.
3. BASIS OF ELEVATION: PCDOT-CITY OF TUCSON GEODETIC CONTROL POINT "N23" AT THE INTERSECTION OF LINDA VISTA BLVD. AND BALD EAGLE AVE., A 2" BCSM RLS 4785. SAID ELEVATION BEING 2330.61 (NAVD 88). SITE BENCH IS THE EAST 1/4 CORNER OF SECTION 23, TOWNSHIP 12 SOUTH, RANGE 12 EAST, A 3" TOWN OF MARANA BCSM. SAID ELEVATION BEING 2254.64 (NAVD 88).
4. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS.
5. CONTRACTOR SHALL CALL BLUESTAKE (1-800-STAKE-IT) TO VERIFY LOCATION OF UTILITIES TWO FULL WORKING DAYS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION.
6. CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED BY GOVERNMENTAL AGENCIES.
7. ALL REVISIONS TO THESE PLANS MUST BE APPROVED BY TOWN ENGINEER PRIOR TO CONSTRUCTION.
8. ALL WORK SHALL CONFORM TO "STANDARDS FOR GRADING AND RELATED SITE WORK" TITLE 19 OF THE TOWN OF MARANA LAND DEVELOPMENT CODE.
9. ALL CONCRETE SHALL COMPLY WITH PC/COT SSPI SECTION 1006, CLASS S, 3,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS, UNLESS OTHERWISE SPECIFIED.
10. CONTRACTOR SHALL GIVE FORTY-EIGHT (48) HOURS NOTICE WHEN HE SHALL REQUIRE SERVICES OF THE ENGINEER OR ANY OTHER PERSON PROPERLY AUTHORIZED FOR SUCH PURPOSE FOR LAYING OUT ANY PORTION OF THE WORK. HE SHALL ALSO DIG ALL STAKE HOLES NECESSARY TO GIVE LINE AND LEVELS.
11. THE CONTRACTOR SHALL PRESERVE ALL STAKES SET FOR THE LINES, LEVELS OR MEASUREMENTS OF THE WORK IN THEIR PROPER PLACES UNTIL AUTHORIZED TO REMOVE THEM BY THE ENGINEER. ANY EXPENSE INCURRED IN REPLACING ANY STAKES WHICH THE CONTRACTOR OR HIS SUBORDINATES MAY HAVE FAILED TO PRESERVE SHALL BE CHARGED TO THE CONTRACTOR.
12. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH, HAUL AND APPLY ALL WATER REQUIRED FOR COMPACTION AND FOR THE CONTROL OF DUST FROM CONSTRUCTION ACTIVITY. THE COST THEREOF IS TO BE INCLUDED IN THE CONSTRUCTION PRICE.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CARE, MAINTENANCE, REPAIR OR REPLACEMENT OF EXISTING IMPROVEMENTS IN THE WORK AREA WHICH HAVE BEEN REMOVED OR DAMAGED DURING THE COURSE OF CONSTRUCTION. ALL REPAIR, REPLACEMENT OR CLEANUP SHALL BE DONE TO THE SATISFACTION OF THE OWNER.
14. OMISSIONS 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.
15. UPON COMMENCEMENT OF WORK, TRAFFIC CONTROL DEVISES SHALL BE POSTED AND MAINTAINED BY THE CONTRACTOR UNTIL SUCH TIME AS THE WORK IS COMPLETED. ALL WARNING SIGNS, BARRICADES, ETC., SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES ADOPTED BY THE STATE OF ARIZONA PURSUANT TO A.R.S. 28-650.
16. A COPY OF THE APPROVED PLAN SHALL BE KEPT IN AN EASILY ACCESSIBLE LOCATION ON THE SITE AT ALL TIMES DURING CONSTRUCTION.
17. IF UNANTICIPATED CONDITIONS ARE ENCOUNTERED DURING THE COURSE OF CONSTRUCTION AND ARE BEYOND THE SCOPE OF THE DESIGN, THE ENGINEER SHALL SUBMIT THE NECESSARY REVISED OR SUPPLEMENTAL IMPROVEMENT PLANS FOR REVIEW AND ACCEPTANCE BY THE TOWN ENGINEER.
18. 30 DAYS PRIOR TO DESTRUCTION OR REMOVAL OF CACTUS THE CONTRACTOR SHALL NOTIFY THE ARIZONA DEPARTMENT OF AGRICULTURE AT (520)628-6310.
19. A REPORT OF SOILS INVESTIGATION INCLUDING RECOMMENDATIONS FOR GRADING PROCEDURES HAS BEEN PREPARED BY GRC CONSULTANTS, INC. UNDER NO. 4907-001 MARANA 59 PARCEL, DATED AUGUST 29, 2005. ALL EARTHWORK SHALL CONFORM TO THE RECOMMENDATIONS CONTAINED IN SAID REPORT.
20. THE SOILS ENGINEER SHALL OBSERVE, INSPECT AND TEST ALL EARTHWORK OPERATIONS INCLUDING, BUT NOT LIMITED TO, CLEARING, GRUBBING, SUBGRADE PREPARATION, STRUCTURAL AND TRENCH EXCAVATION AND BACKFILL, TOGETHER WITH PLACEMENT AND COMPACTION OF FILL.
21. COMPACTION IN ALL FILL AREAS SHALL BE TO A MINIMUM OF 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO DESIGNATION T-99, METHOD A. THOSE AREAS TO RECEIVE FILL ARE TO BE SCARIFIED TO A DEPTH OF TEN (10) INCHES, BROUGHT TO THE PROPER MOISTURE CONTENT AND COMPACTED TO THE ABOVE DENSITY. THE AREA SOURCE OF FILL MATERIAL SHALL BE APPROVED BY THE OWNER PRIOR TO COMMENCEMENT OF WORK. TESTS OF FILL MATERIAL WILL BE DONE AT THE OWNER'S EXPENSE.
22. THE DESIGN SPEED FOR ONSITE STREETS IS 25 MPH, UNLESS OTHERWISE NOTED. THE DESIGN VEHICLE IS WB-40.
23. AGGREGATE BASE COURSE SHALL CONFORM TO PC/COT SSPI SECTION 303.
24. ASPHALTIC CONCRETE SHALL CONFORM WITH PC/COT SSPI SECTION 406, MIX #2, SPECIFICATIONS (SUBDIVISION MIX 4.0%).
25. A REGISTERED ENGINEER MUST CERTIFY THAT THIS PROJECT WAS CONSTRUCTED IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED PLANS PRIOR TO THE REQUEST FOR FINAL INSPECTION/ CERTIFICATE OF OCCUPANCY, RELEASE OF ASSURANCES OR MODULAR PERMITS.
26. NATIVE PLANTS MUST BE FLAGGED AND PROTECTIVE FENCING MUST BE INSTALLED AS REQUIRED BY THE NATIVE PLANT PRESERVATION PLAN PRIOR TO ANY GRADING ACTIVITY.
27. ALL STREET SIGNING SHALL BE DESIGNED AND INSTALLED TO CURRENT PIMA COUNTY STANDARDS. THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE PCDOT/COTDOT SIGNING MANUAL ARE TO BE THE REFERENCES FOR SIGNING AND DESIGN AND INSTALLATION.
28. WHEN REMOVED, EDGE LINE STRIPING (W38) AT THE ENTRANCE(S) OF THE SUBDIVISION AND WHEREVER APPLICABLE, SHALL BE REINSTALLED TO CURRENT PCDOT/COTDOT STANDARDS BY THE CONTRACTOR AND AT THE CONTRACTOR'S EXPENSE.
29. ALL STREET STRIPING AND SIGNING WORK SHALL BE COORDINATED WITH PIMA COUNTY TRAFFIC OPERATIONS DIVISION (520-740-2601) PRIOR TO INSTALLATION AND BEFORE OPENING STREETS TO THE PUBLIC. ALL INSTALLATIONS THAT DO NOT MEET PC STANDARDS SHALL BE REPLACED BY THE CONTRACTOR AT THEIR EXPENSE.
30. IF CULTURAL OR HISTORICAL RESOURCES ARE FOUND DURING CONSTRUCTION, ALL CONSTRUCTION MUST STOP, UNTIL THE ARMY CORPS OF ENGINEERS AND THE MARANA CULTURAL RESOURCES MANAGER ARE CONTACTED AND CAN EVALUATE THE FIND.
31. IF ANY HUMAN REMAINS OR FUNERARY ITEMS ARE DISCOVERED DURING CONSTRUCTION, OR AT ANY TIME, ALL WORK MUST STOP IN THE AREA OF THE REMAINS AND THE ARIZONA STATE MUSEUM MUST BE CONTACTED IMMEDIATELY AT (520) 621-4795, PURSUANT TO A.R.S. 41-865.
32. THIS PLAN IS SUBJECT TO THE PLANNING COMMISSION ACTION TAKEN UNDER TOWN OF MARANA PLANNING CASE NO. PCM-08029 ON JULY 30, 2008 REGARDING THE PROPERTY OWNER'S APPEAL OF SUBDIVISION IMPROVEMENT REQUIREMENTS.

PUBLIC PAVING, DRAINAGE and SEWER IMPROVEMENT PLANS for MARANA 59, LOTS 1-58





LOCATION PLAN

SECTION 23, T12S, R12E, G&SRB&M
TOWN OF MARANA, PIMA COUNTY, ARIZONA
SCALE: 3" = 1 MILE

LEGEND

- SUBDIVISION BOUNDARY
- LOTLINE
- STREET CENTERLINE
- PUBLIC UTILITY EASEMENT
- NEW PAVEMENT
- EXISTING PAVEMENT
- FOUND SURVEY MONUMENT
- EXISTING GAS LINE
- EXISTING OVERHEAD ELECTRIC
- EXISTING UNDERGROUND ELECTRIC
- PROPOSED WATER LINE
- MATCHLINE
- SHEET REFERENCE
- NEW SURVEY MONUMENT PER PC/COT SD 103
- CURB ACCESS RAMP PER T.O.M. SD 600-2
- BACKWATER VALVE INDICATOR
- NEW SEWER LINE W/ NEW MANHOLE
- EXISTING SEWER LINE W/ EXIST. MANHOLE
- 100 YEAR FLOODPRONE LINE ("F.P.L.")
- EROSION SETBACK LINE ("E.S.L.")
- 404 JURISDICTIONAL LINE ("404 LIMITS")

SCALE IN FEET 0 150
C.I.=5'

AS-BUILT CERTIFICATION:
I HEREBY CERTIFY THAT THE "RECORD DRAWING" MEASUREMENTS AS SHOWN HEREON WERE MADE UNDER MY SUPERVISION OR AS NOTED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR — DATE

REGISTRATION NUMBER — EXPIRES

SHEET INDEX

1	COVER SHEET
2-7	PLAN & PROFILES
5	SEWER GENERAL NOTES
8-9	DETAILS
10	STRIPING & SIGNAGE PLAN

OWNER/DEVELOPER:

RED POINT DEVELOPMENT, INC.
ATTN: LARRY KREIS
8710 N. THORNYDALE ROAD, SUITE 120
TUCSON, ARIZONA 85742
PHONE: 520-408-2300

NOTE:

THESE SEWER PLANS WERE APPROVED AS G-2007-078 IN DECEMBER 2007. THEY ARE BEING RESUBMITTED AS G-2013-038 AS THE PREVIOUS PLANS HAVE EXPIRED.

ACCEPTED:

ACCEPTED BY THE TOWN OF MARANA

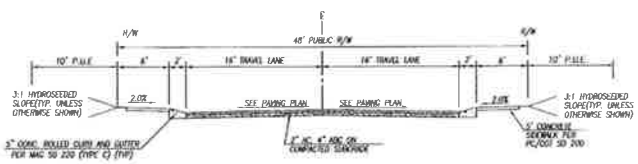
BY: [signature] P.E. DATE: 5-24-13
TOWN ENGINEER/SUBDIVISION ENGINEER

BY: [signature] AICP DATE: 5-24-13
TOWN OF MARANA PLANNING DIRECTOR

ACCEPTED:

PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPT (PCRWRD) — DATE

SEWER GENERAL NOTES
SEE SHEET 5



1 MARANA 59 - PROPOSED 48 FT. PUBLIC STREET TYPICAL SECTION NTS

G-2013-038
ENG0708-015
G-2007-078
PRV-06088

PUBLIC PAVING, DRAINAGE and SEWER IMPROVEMENT PLANS for MARANA 59, LOTS 1 - 58 (M&P 63/90)

Baker & Associates Engineering, Inc.
3561 E. Sunrise Drive, Suite #225 Tucson, Arizona 85718 (520) 318-1950 Fax (520) 318-1930

SHEET 1 of 10

Council-Regular Meeting **C3**

Meeting Date: 06/21/2016

To: Mayor and Council

Submitted For: Keith Brann, Town Engineer

From: Gus Myers, Engineering Technician

Date: June 21, 2016

Strategic Plan Focus Area:
Not Applicable

Subject: Resolution No. 2016-061: Relating to Development; approving a release of assurances for Saguaro Springs Block 4 as modified by Saguaro Bloom Block 4 and accepting public improvements for maintenance (Keith Brann)

Discussion:

This resolution will release the Assurance agreement between D.R. Horton and Title Security of Arizona under Trust No. 201434-T and the Town of Marana, regarding Saguaro Springs Block 4 as modified by Saguaro Bloom Block 4, depicted on the map provided as backup to this agenda item. Saguaro Springs Block 4 as modified by Saguaro Bloom Block 4 is comprised of lots 400 -611 and Common Areas 'A', and 'B' and is recorded at the Pima County Recorders Office at Book 62 of Maps and Plats, Page 6 and under Sequence Number 20151910194 (Saguaro Bloom Amended Plat).

In releasing these Assurances, the Town of Marana will accept for maintenance, including regulatory traffic control and street signs, approximately 1.8 miles on the following paved streets:

- Alverton Drive
- Birchover Drive
- Grayling Drive
- Rolling Springs Drive
- Hidden Saguaro Trail
- Twin Springs Drive
- Cloudwood Drive
- Silent Saguaro Drive
- Melandra Way

- Spring Crossing Way
- Havenwood Way

The Town will also accept for maintenance a potable water system, including approximately 9,753 linear feet of of potable water line, water meters, appurtenances, valves, and fire hydrants, with an estimated values of $534,600.

Staff Recommendation:

Staff recommends adoption of Resolution 2016-061, releasing the assurances for Saguaro Springs Block 4 as modified by Saguaro Bloom Block 4 and accepting public improvements for maintenance.

Suggested Motion:

I move to adopt Resolution 2016-061, releasing the assurances for Saguaro Springs Block 4 as modified by Saguaro Bloom Block 4 and accepting public improvements for maintenance.

Attachments

Resolution No. 2016-061

SB BLK 4 Map

MARANA RESOLUTION NO. 2016-061

RELATING TO DEVELOPMENT; APPROVING A RELEASE OF ASSURANCES FOR SAGUARO SPRINGS BLOCK 4 AS MODIFIED BY SAGUARO BLOOM BLOCK 4 AND ACCEPTING PUBLIC IMPROVEMENTS FOR MAINTENANCE

WHEREAS the final plat for 'Saguaro Springs, Block 4 Lots 400 to 611 and Common Areas "A" (Open Space, Recreation, Drainage, Public Utilities, Road Maintenance & Signage) and "B" (Open Space, Recreation, Public Utilities, Road Maintenance & Signage)' ("Saguaro Springs Block 4") was recorded in the Pima County Recorder's Office on December 21, 2006, at Book 62 of Maps and Plats, Page 6; and

WHEREAS Saguaro Springs Block 4 was modified by the final plat for "Saguaro Bloom, Block 4, Lots 441, 477, 480, 481, 485, 486, 487, 491, 492, 513, 536, 545, 546, 549, 556, 559, 560, 579, 607 and Common Areas 'A' and 'B' " ("Saguaro Springs Block 4"), recorded in the Pima County Recorder's Office on July 10, 2015, at Sequence 20151910194; and

WHEREAS the Town has a third party trust substitute assurance agreement (the "Assurance Agreement") with D.R. Horton, Inc. (the "Subdivider") and Title Security Agency of Arizona, LLC, under Trust No. 201434-T, recorded in the Pima County Recorder's office on October 8, 2015, at Sequence 20152810406, assuring the completion of public improvements for Saguaro Springs Block 4 as modified by Saguaro Bloom Block 4; and

WHEREAS the Subdivider has completed the public improvements for Saguaro Springs Block 4 as modified by Saguaro Bloom Block 4 acceptable to Town standards in accordance with the Assurance Agreement.

NOW, THEREFORE, BE IT RESOLVED by the Mayor and Council of the Town of Marana as follows:

Section 1. The Assurance Agreement is hereby released.

Section 2. The Town accepts for maintenance, including maintenance of regulatory traffic control and street signs, approximately 1.83 miles of the following paved streets as shown on the plat of Saguaro Springs Block 4:

- Alverton Drive
- Birchover Drive
- Grayling Drive
- Rolling Springs Drive
- Hidden Saguaro Trail

- Twin Springs Drive
- Cloudwood Drive
- Silent Saguaro Drive
- Melandra Way
- Spring Crossing Way
- Havenwood Way

Section 3. The Town accepts for maintenance a potable water system including approximately 9,753 linear feet of potable water line, water meters, valves, fire hydrants and appurtenances with an estimated value of $534,600, within Saguaro Springs Block 4 as modified by Saguaro Bloom Block 4.

PASSED AND ADOPTED by the Mayor and Council of the Town of Marana, Arizona, this 21st day of June, 2016.

Mayor Ed Honea

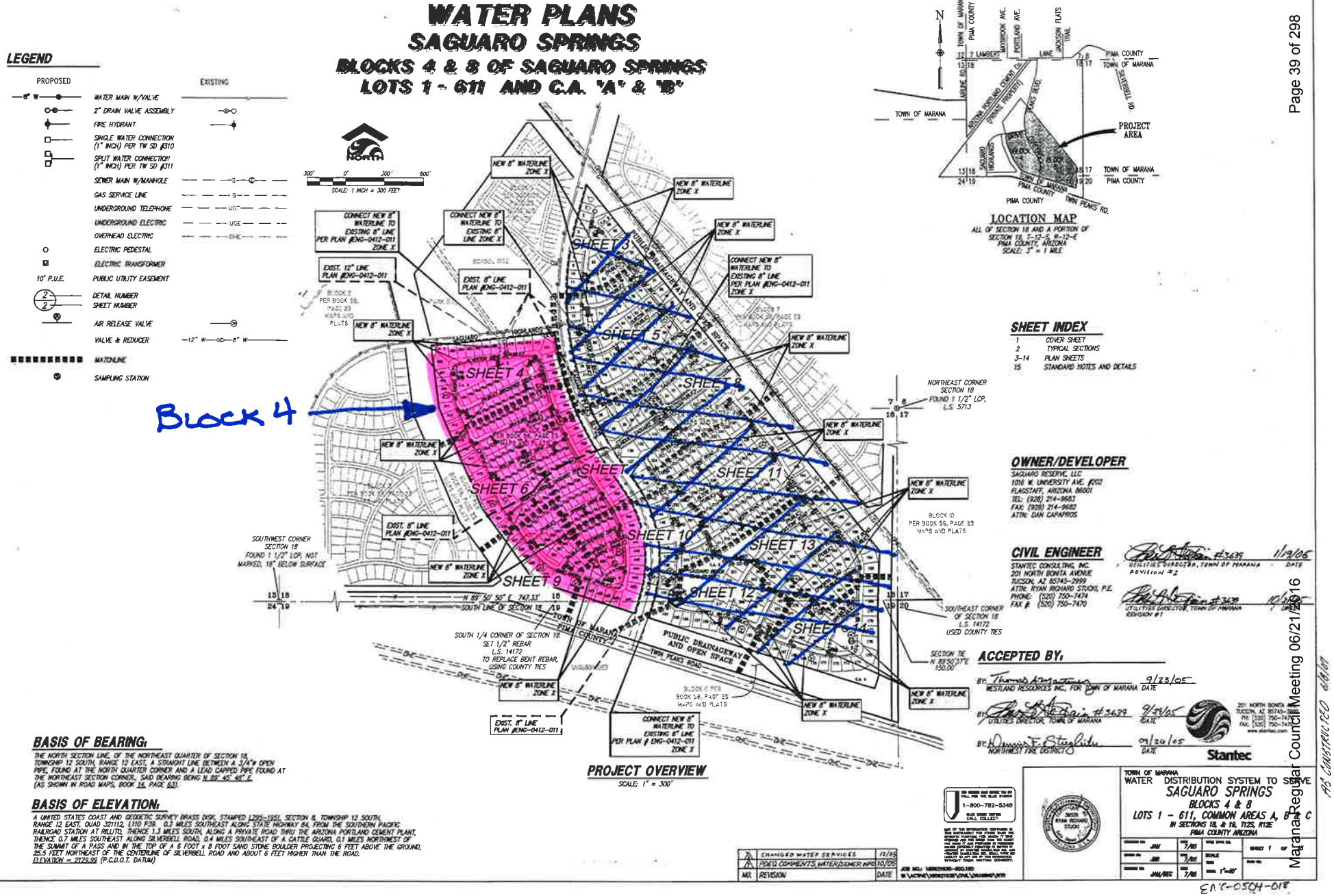
ATTEST:

Jocelyn C. Bronson, Town Clerk

APPROVED AS TO FORM:

Frank Cassidy, Town Attorney

WATER PLANS
SAGUARO SPRINGS
BLOCKS 4 & 8 OF SAGUARO SPRINGS
LOTS 1 - 611 AND C.A. "A" & "B"



SHEET INDEX

1	COVER SHEET
2	TYPICAL SECTIONS
3-14	PLAN SHEETS
15	STANDARD NOTES AND DETAILS

OWNER/DEVELOPER

SAGUARO RESERVE, LLC
1016 W. UNIVERSITY AVE. #202
FLAGSTAFF, ARIZONA 86001
TEL: (928) 214-9683
FAX: (928) 214-9682
ATTN: DAN CAPARROS

CIVIL ENGINEER

STANTEC CONSULTING, INC.
201 NORTH BONITA AVENUE
TUCSON, AZ 85745-2999
ATTN: RYAN RICHARD STUCKI, P.E.
PHONE: (520) 750-7474
FAX #: (520) 750-7470

ACCEPTED BY:

BY: _____ WESTLAND RESOURCES INC. FOR TOWN OF MARANA DATE 9/23/05
BY: _____ UTILITIES DIRECTOR, TOWN OF MARANA DATE 9/29/05
BY: _____ NORTHWEST FIRE DISTRICT DATE 09/29/05

UTILITIES DIRECTOR, TOWN OF MARANA DATE 11/9/06
REVISION #2
UTILITIES DIRECTOR, TOWN OF MARANA DATE 10/26/06
REVISION #1

BASIS OF BEARING:

THE NORTH SECTION LINE, OF THE NORTHEAST QUARTER OF SECTION 18, TOWNSHIP 12 SOUTH, RANGE 12 EAST, A STRAIGHT LINE BETWEEN A 3/4"ø OPEN PIPE, FOUND AT THE NORTH QUARTER CORNER AND A LEAD CAPPED PIPE FOUND AT THE NORTHEAST SECTION CORNER., SAID BEARING BEING N 89° 45' 45" E (AS SHOWN IN ROAD MAPS, BOOK 14, PAGE 53).

BASIS OF ELEVATION:

A UNITED STATES COAST AND GEODETIC SURVEY BRASS DISK, STAMPED L292-1951, SECTION 8, TOWNSHIP 12 SOUTH, RANGE 12 EAST, QUAD 321112, L110 F39, 0.2 MILES SOUTHEAST ALONG STATE HIGHWAY 84, FROM THE SOUTHERN PACIFIC RAILROAD STATION AT RILLITO, THENCE 1.3 MILES SOUTH, ALONG A PRIVATE ROAD THRU THE ARIZONA PORTLAND CEMENT PLANT, THENCE 0.7 MILES SOUTHEAST ALONG SILVERBELL ROAD, 0.4 MILES SOUTHEAST OF A CATTLE GUARD, 0.1 MILES NORTHWEST OF THE SUMMIT OF A PASS AND IN THE TOP OF A 6 FOOT x 8 FOOT SAND STONE BOULDER PROJECTING 6 FEET ABOVE THE GROUND, 25.5 FEET NORTHEAST OF THE CENTERLINE OF SILVERBELL ROAD AND ABOUT 6 FEET HIGHER THAN THE ROAD.
ELEVATION = 2129.99 (P.C.D.O.T. DATUM)

PROJECT OVERVIEW

SCALE: 1" = 300'

NO.	REVISION	DATE
1	CHANGED WATER SERVICES	12/05
2	PDEQ COMMENTS, WATER/SEWER INFO	10/06

1-800-782-5348
CALL BEFORE YOU DIG
ARIZONA BLUE STAKE, INC.
CALL COLLECT

TOWN OF MARANA
WATER DISTRIBUTION SYSTEM TO SERVE
SAGUARO SPRINGS
BLOCKS 4 & 8
LOTS 1 - 611, COMMON AREAS A, B & C
IN SECTIONS 18, & 19, T12S, R12E
PIMA COUNTY ARIZONA

Stantec
201 NORTH BONITA AVE.
TUCSON, AZ 85745-2999
PH: (520) 750-7474
FAX: (520) 750-7470
www.stantec.com

JAM 7/05 — JAM 7/05 — JAM/BEC 7/05 — SCALE 1"=60'

EN 6-0504-018

AS CONSTRUCTED 6/08/07

Maranaa Regular Council Meeting 06/21/2016

EXHIBIT A

Council-Regular Meeting **C4**

Meeting Date: 06/21/2016

To: Mayor and Council

From: Anthony Hunter, Management Assistant

Date: June 21, 2016

Strategic Plan Focus Area:
Not Applicable

Subject: Resolution No. 2016-062: Relating to Intergovernmental Relations; approving and authorizing the Town Manager to execute a Lobbying Services Agreement with Triadvocates, LLC for fiscal years 2016-2017 and 2017-2018 (Tony Hunter)

Discussion:

The Town currently retains Triadvocates in the capacity of lobbyist. With approval of this agreement, Triadvocates shall provide lobbying services at the direction of the Town Manager as approved and directed by the Mayor and Council. Triadvocates' duties shall include providing lobbying services for the Town before state government bodies and officials.

The attached agreement provides for a two year time frame which, if approved, would cover fiscal years 2016-2017 and 2017-2018.

Financial Impact:

Fiscal Year:	2016-2017
Budgeted Y/N:	Y
Amount:	$49,499.96

Staff Recommendation:

Staff recommends approval of the lobbying services agreement.

Suggested Motion:

I move to adopt Resolution 2016-062; approving and authorizing the Town Manager to execute a Lobbying Services Agreement with Triadvocates, LLC for fiscal years 2016-2017 and 2017-2018.

Attachments

Resolution No. 2016-062

Exhibit A Lobbying Services Agreement

MARANA RESOLUTION NO. 2016-062

RELATING TO INTERGOVERNMENTAL RELATIONS; APPROVING AND AUTHORIZING THE TOWN MANAGER TO EXECUTE A LOBBYING SERVICES AGREEMENT WITH TRIADVOCATES, LLC FOR FISCAL YEARS 2016-2017 AND 2017-2018

WHEREAS the Town of Marana and Triadvocates, LLC wish to enter into an agreement whereby Triadvocates, LLC will provide lobbying services for the Town before state government bodies and officials; and

WHEREAS the Mayor and Council of the Town of Marana feel it is in the best interests of the citizens of Marana to enter into the lobbying services agreement addressed by this resolution.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND COUNCIL OF THE TOWN OF MARANA, that the lobbying services agreement between the Town of Marana and Triadvocates, LLC for fiscal years 2016-2017 and 2017-2018, attached to this resolution as Exhibit A is hereby approved, and the Town Manager is authorized to execute it for and on behalf of the Town of Marana.

IT IS FURTHER RESOLVED that the Town Manager and staff are hereby directed and authorized to undertake all other and further tasks required or beneficial to carry out the terms, obligations, conditions and objectives of the lobbying services agreement.

PASSED AND ADOPTED by the Mayor and Council of the Town of Marana, Arizona, this 21st day of June, 2016.

Mayor Ed Honea

ATTEST:

Jocelyn C. Bronson, Town Clerk

APPROVED AS TO FORM:

Frank Cassidy, Town Attorney

LOBBYING SERVICES AGREEMENT

This Agreement for lobbying services (this "Agreement") is made and entered into by and between the TOWN OF MARANA, an Arizona municipal corporation (the "Town") and TRIADVOCATES LLC, a Delaware limited liability company ("TRIADVOCATES").

IN CONSIDERATION of the mutual obligations contained in this Agreement, the parties mutually agree as follows:

ARTICLE I. SCOPE OF WORK/COMPENSATION

A. ENGAGEMENT AND SCOPE OF SERVICES: The Town retains TRIADVOCATES in the capacity of lobbyist. TRIADVOCATES shall provide lobbying services at the direction of the Town Manager as approved and directed by the Mayor and Council. TRIADVOCATES' duties shall include providing lobbying services for the Town before state government bodies and officials.

B. REPRESENTATION OF OTHER CLIENTS: Nothing in this Agreement shall be interpreted to prohibit TRIADVOCATES from representing other clients so long as that representation does not constitute a legal conflict of interest. The Town may waive conflicts to the extent permitted by law.

C. COMPENSATION: For the services contemplated in this Agreement, the Town shall pay TRIADVOCATES a fee of $4,133.33 per month, with total compensation under this Agreement not to exceed $49,599.96 per year.

D. CHARGES FOR COSTS AND EXPENSES: With the Town Manager's prior written approval, the Town shall reimburse TRIADVOCATES for any reasonable out-of-pocket costs, including costs for travel time or mileage, which TRIADVOCATES may incur as a direct result of its lobbying efforts on the part of the Town. TRIADVOCATES will not markup any of its costs.

E. BILLING: TRIADVOCATES shall bill the Town for its services on or about the first day of each month. The Town shall pay invoices within 30 days of receipt.

ARTICLE II. TERM

This Agreement shall begin on and be effective as of July 1, 2016, and shall continue in full force and effect until June 30, 2018, unless sooner terminated pursuant to Article III.

ARTICLE III. TERMINATION/MODIFICATIONS

A. TERMINATION: This Agreement may be terminated by either the Town or TRIADVOCATES at any time, subject to payment of all fees and costs incurred through the date of termination, by giving written notice to the other party. The written notice shall be

delivered personally or by certified mail, and termination shall take effect 30 days after receipt of the written notice by the receiving party.

B. MODIFICATION: This Agreement may not be modified except by an instrument in writing duly executed by all parties.

ARTICLE IV. MISCELLANEOUS

A. ENTIRE AGREEMENT: This Agreement supersedes any and all agreements previously made between the parties relating to the subject matter of this Agreement, and there are no understandings or agreements other than those incorporated in this Agreement.

B. NO ASSIGNMENT: TRIADVOCATES may not assign any rights or obligations under this Agreement without the Town's prior written consent.

C. INDEPENDENT CONTRACTOR STATUS: TRIADVOCATES is an independent contractor and nothing in this Agreement shall make TRIADVOCATES an employee of the Town. TRIADVOCATES is solely responsible for all federal, state and local taxes, including but not limited to FICA, unemployment compensation and workers' compensation, and will not be subject to the personnel policies or entitled to any benefits of the Town.

D. GOVERNING LAW: This Agreement shall be governed, construed, and interpreted in accordance with the laws of the State of Arizona.

E. ATTORNEYS' FEES: If there is a breach of this Agreement that results in litigation, the prevailing party shall be awarded its attorneys' fees and court costs incurred in the litigation.

F. SEVERABILITY: If any provision of this Agreement shall under any circumstances be deemed invalid or inoperative, this Agreement shall be construed with the invalid or inoperative provision deleted and the rights and obligations construed and enforced accordingly.

G. CONFLICT OF INTEREST: This Agreement is subject to the provisions of A.R.S. § 38-511, which provides for termination in certain instances involving conflicts of interest.

H. COMPLIANCE WITH IMMIGRATION LAWS: TRIADVOCATES warrants that it complies with all federal immigration laws and regulations that relate to its employees and with A.R.S. § 23-214 (A). TRIADVOCATES acknowledges that pursuant to A.R.S. § 41-4401, a breach of this warranty is a material breach of this Agreement subject to penalties up to and including termination of this Agreement, and that the Town retains the legal right to inspect the papers of any employee who works on the Agreement to ensure compliance with this warranty.

IN WITNESS WHEREOF, the parties have executed this Agreement on the last signature date below.

TOWN OF MARANA:

By:_____

Gilbert Davidson, Town Manager

Date:_____

ATTEST:

_____

Jocelyn Bronson, Town Clerk

APPROVED AS TO FORM:

_____

Jane Fairall, Deputy Town Attorney

TRIADVOCATES LLC:

By:_____

Its:_____

EIN/SSN:_____

Date:_____

Council-Regular Meeting **C5**

Meeting Date: 06/21/2016

To: Mayor and Council

From: Laine Sklar, Town Magistrate

Date: June 21, 2016

Strategic Plan Focus Area:
Not Applicable

Subject: Resolution No. 2016-063: Relating to Municipal Court; approving and authorizing the Mayor to execute an intergovernmental agreement between the Town of Marana and Pima County for provision of video-court hearings of municipal prisoners for 2016-2017 (Laine Sklar)

Discussion:

Marana Municipal Court utilizes technology and staff from the Pima County Adult Detention Center to conduct video hearings for prisoners who have been arrested, held, or sentenced for Marana Municipal Court charges. This is the most efficient way to ensure that these individuals are seen by a judge in a timely manner without having to bear the cost, risk, and complications associated with transporting these defendants to the court to be seen in person.

The proposed IGA sets forth terms and conditions under which the County will provide video court hearings to the Town. Pursuant to the IGA, video court will be held on Monday, Wednesday, and Thursday of every week, beginning at 12:00 noon and ending no later than 1:00 p.m. The County will bill the Town for the cost of providing a Corrections Officer for coordination and security during the video court session, for up to one hour on the enumerated days. The Town will only be billed for the days on which a video court session actually takes place. For example, if there are no defendants to be seen on a given Monday, Wednesday, or Thursday, the Town will not be billed for that day. This three day a week schedule is a modification from the previous IGA, which allowed up to five days a week. Based on statistical data, three days a week will be sufficient to perform video court hearings in a timely manner. This reduction also allows the Pima County Adult Detention Center to utilize their staff more efficiently.

This resolution approves the agreement and authorizes the Mayor to execute it on behalf of the

Town. The agreement has a one year term, from July 1, 2016 to June 30, 2017, and may be extended for four additional years.

Financial Impact:

Fiscal Year:	2017
Budgeted Y/N:	Y
Amount:	$12000

The IGA requires the Town to pay for up to three hours of video court weekly to cover the cost of one Corrections Officer for one hour per video court day for coordination and security, at the current County salary rate for Corrections Officers of $38.89 per hour, for a total of $116.67 per week. This amount is a decrease from previous years because the number of days per week has been reduced from five to three.

Staff Recommendation:

Staff recommends approval of the IGA.

Suggested Motion:

I move to adopt Resolution 2016-063 approving and authorizing the Mayor to execute an intergovernmental agreement between the Town of Marana and Pima County for provision of video-court hearings of municipal prisoners for 2016-2017.

Attachments

Resolution No. 2016-063

Exhibit A - IGA

MARANA RESOLUTION NO. 2016-063

RELATING TO MUNICIPAL COURT; APPROVING AND AUTHORIZING THE MAYOR TO EXECUTE AN INTERGOVERNMENTAL AGREEMENT BETWEEN THE TOWN OF MARANA AND PIMA COUNTY FOR PROVISION OF VIDEO-COURT HEARINGS OF MUNICIPAL PRISONERS FOR 2016-2017

WHEREAS individuals who are incarcerated pursuant to charges and orders under the jurisdiction of the Marana Municipal Court are held at the Pima County Adult Detention Center; and

WHEREAS the Pima County Adult Detention Center has the staff and technology necessary for these prisoners to appear in Marana Municipal Court via video-conferencing; and

WHEREAS the Town of Marana and Pima County desire to enter into an agreement to provide video-court hearings for Marana Municipal Court prisoners; and

WHEREAS the parties may contract for services and enter into agreements with one another for joint or cooperative action pursuant to A.R.S. § 11-952, *et seq.*; and

WHEREAS the Mayor and Council of the Town of Marana find it is in the best interests of its citizens to enter into this intergovernmental agreement.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND COUNCIL OF THE TOWN OF MARANA, ARIZONA, AS FOLLOWS:

SECTION 1. The intergovernmental agreement between the Town of Marana and Pima County for provision of video-court hearings of municipal prisoners attached as Exhibit A to and incorporated by this reference in this resolution is hereby approved, and the Mayor is hereby authorized to execute it for and on behalf of the Town of Marana.

SECTION 2. The Town's Manager and staff are hereby directed and authorized to undertake all other and further tasks required or beneficial to carry out the terms, obligations, and objectives of the intergovernmental agreement.

PASSED AND ADOPTED BY THE MAYOR AND COUNCIL OF THE TOWN OF MARANA, ARIZONA, this 21st day of June, 2016.

Mayor Ed Honea

ATTEST:

Jocelyn C. Bronson, Town Clerk

APPROVED AS TO FORM:

Frank Cassidy, Town Attorney

INTERGOVERNMENTAL AGREEMENT
BETWEEN
TOWN OF MARANA
AND
PIMA COUNTY
FOR
PROVISION OF VIDEO-COURT HEARINGS OF MUNICIPAL PRISONERS

THIS INTERGOVERNMENTAL AGREEMENT (IGA), is entered into pursuant to ARS § 11-952 (as amended) by and between:

THE TOWN OF MARANA, a municipal corporation, (hereinafter sometimes referred to as the "Town"); and

THE COUNTY OF PIMA, a body politic and corporate, a political subdivision of the State of Arizona, (hereinafter sometimes referred to as the "County").

WHEREAS the Parties desire to enter into an agreement to provide video-court hearings for municipal prisoners; and

WHEREAS the Town and County may contract for services and enter into agreements with one another for joint or cooperative action pursuant to A.R.S. § 11-952, et seq.; and

WHEREAS the provision of video-court hearings for municipal prisoners will be in the best interests of the Parties and the citizens of Pima County.

NOW THEREFORE, THE TOWN AND COUNTY HEREBY AGREE AS FOLLOWS:

1. The County of Pima's Sheriff's Department Corrections Bureau shall provide the Town of Marana's Municipal Court with a video court session between Marana Municipal Court (MMC) and the Pima County Adult Detention Center (PCADC).

2. PCADC will be responsible for pulling MMC's inmate files and preparing them for court, preparing their inmates for court, providing security in the courtroom, providing clerical support for court documentation and faxing required documentation back to MMC.

3. MMC shall fax PCADC's Records Unit appropriate documentation on each MMC defendant prior to the defendant leaving the video court session.

4. Each video court session will be held week days beginning at 1200 hours. This session both Town and County agree that this schedule may be changed based on either party's need for more video court time, or based on other factors that could require a different schedule. MMC shall complete the video court session no later than 1300 hours. Any hearing extending past 1300 hours shall be continued at a later date.

5. Town of Marana will pay for up to three hours of video court weekly which will cover the cost of one Corrections Officer for one hour per scheduled day for security. The current salary rate for these employees is:

Corrections Officer (1 hour)	$38.89
Total for three hours:	$116.67

6. "Town of Marana Prisoner" shall mean any person who has been incarcerated as a result of a

charge pending in the Town of Marana Court, as a result of an agreement between the Town of Marana and another jurisdiction to allow the person to serve his/her sentence locally, or has been sentenced pursuant to an order of the Town of Marana Court and for whom the Town of Marana has the legal obligation to provide or pay for prisoner housing (this Agreement does not create such an obligation, that obligation exists under current Arizona Law). A prisoner arrested by the Town of Marana Police Department solely on another governmental entity warrant is not a Town of Marana prisoner.

7. Criteria and Rules Governing Billing:

   a. A "billable video-court session" is defined as that period commencing at 1200 hours and ending at 1300 hours Monday, Wednesday and Thursday, or any fractional part thereof.

   b. Should a "billable video-court session" not occur in any given day, the Town of Marana will not be billed that day.

   c. The Town of Marana will be billed monthly for these services. Invoicing for these services will be separate from the monthly incarceration billing invoice and must be paid separately.

8. Criteria for Assessment of Billing:

   a. The costs of a "billable video-court session" shall be based on the current rates of salary each involved class of employee currently earns. These rates are subject to increase as wages increase for the classification.

   b. County will give Town a thirty (30) day notice of any salary rate increase and Town will be billed accordingly.

9. County will submit a statement of Town of Marana video-court session charges on a monthly basis. This statement shall provide information in chronological order as follows: billing period, dates of video court sessions, weekly costs of individual employees, weekly totals, and the monthly total bill.

   Any individual video court session charge contested shall be made known to the County within 30 days after receipt of the monthly billing. If the Town notifies the County of a dispute within 30 days of receipt of the monthly billing, the Town may withhold payment on those specific video court sessions for which billing is disputed until the dispute has been resolved. No dispute will be accepted if not made within 30 days after the receipt on the monthly billing. Disputes about the billing statement shall be jointly reviewed by both parties and satisfactorily resolved within 45 days of the monthly billing. All charges shall be paid within sixty days of receipt of the monthly billing, excluding contested charges. Contested charges shall be paid within 30 days of resolution of the dispute. Charges remaining unresolved after the 60-day period may be arbitrated by a mutually acceptable third party. Town agrees to pay interest on outstanding charges beginning on the 10th day after resolution of the billing at a rate of 10% per annum until paid. Town agrees that when a check is sent to County in payment of previously disputed charge, Town will attach an invoice detailing what specific charges are being paid. Town agrees that when funds are withheld due to a disputed charge, the specific charge being disputed, and the amount of payment being withheld, will be specified on an invoice attached to the payment check for the period in which the charge disputed was included. Town agrees to attach to each check submitted to County an invoice indicating the dates for which that check is to be applied.

10 This Agreement shall cover the time period from July 1, 2016 through and including June 30, 2017. This Agreement may be extended for four (4) additional one (1) year periods or any portion thereof. Any extension of this Agreement shall be by written amendment executed by the governing bodies of the parties.

11. Neither party shall be obliged to the other party for any costs incurred pursuant to this Agreement, except as herein provided.

12. Nothing in this Agreement shall be construed as either limiting or extending the statutory jurisdiction of either of the signing parties hereto.

13. To the extent permitted by law, each party agrees to indemnify, defend and save harmless the other, their appointed boards and commissions, officials, employees and insurance carriers, individually and collectively from all losses, claims, suits, demands, expenses, subrogation, attorney's fees or actions of any kind resulting from all personal injury including bodily injury and death, and property damage occasioned during the term of this Agreement for acts or omissions of such party, its agents, officials, and employees. Each party represents that it shall maintain for the duration of this Agreement, policies of public liability insurance covering all of their operations undertaken in implementation of this Agreement, providing bodily injury limits of not less than Five Hundred Thousand Dollars ($500,000) for any one person, of not less than One Million Dollars ($1,000,000) for any one occurrence, and property damage liability to a limit of not less than One Hundred Thousand Dollars ($100,000). The parties may fulfill the obligations of this Article by programs of self-insurance equivalent in coverage.

14. The parties agree to be bound by arbitration, as provided in Arizona Revised Statutes, § 12-1501 et. seq. to resolve disputes arising out of this Agreement where the sole relief sought is monetary damage of $50,000 or less, exclusive of interest and costs.

15. Notwithstanding any other provision in this Agreement, this Agreement may be terminated with thirty days notice, if for any reason the Pima County Board of Supervisors does not appropriate sufficient monies for the purpose of maintaining this Agreement. In the event of such cancellation, County shall have no further obligation to the Town other than for services already provided.

16. Either party may, at any time and without cause, cancel this Agreement by providing ninety (90) days written notice of intent to cancel.

17. This Agreement is subject to cancellation for conflict of interest pursuant to the provisions of ARS § 38-511.

18. Each party to this Intergovernmental Agreement shall comply with all federal, state, and local laws, rules, regulations, standards, and Executive Orders, without limitation to those designated within this Agreement. The laws and regulations of the State of Arizona shall govern the rights of the parties, the performance of this Agreement, and any disputes hereunder. Any action relating to this Agreement shall be brought in a court of the State of Arizona in Pima County. Any charges in the governing laws, rules, and regulations during the terms of this Agreement shall apply, but do not require an amendment.

19. TOWN and COUNTY will not discriminate against any TOWN or COUNTY employee, client or any other individual in any way involved with the TOWN or COUNTY, because of race, age, creed, color, religion, sex, disability or national origin in the course of carrying out duties pursuant to this Intergovernmental Agreement. TOWN and COUNTY agree to comply with the provisions of Arizona Executive Order 99-4, which are incorporated into this agreement by

reference as if set forth in full.

20. Each party shall comply with all applicable provisions of the Americans with Disabilities Act (Public Law 101-336, 42 U.S.C. 12101-12213) and all applicable federal regulations under the Act, including 28 CFR Parts 35 and 36.

21. This document constitutes the entire Intergovernmental Agreement between the parties and shall not be modified, amended, altered or changed except through a written amendment executed by the parties' governing bodies.

SIGNED AND ATTESTED THIS _____ DAY OF _____ 2014,

ATTEST:

TOWN OF MARANA, a municipal corporation

_____
Town of Marana Clerk

_____
Mayor

ATTEST:

PIMA COUNTY, a body politic

_____
Clerk, Board of Supervisors

_____
Chair, Board of Supervisors

_____
Date

_____
Date

APPROVED AS TO FORM AND
LEGAL AUTHORITY:

APPROVED AS TO FORM AND
LEGAL AUTHORITY:

_____
Town of Marana Attorney

_____
Deputy County Attorney
Legal authority: ARS § 11-201,
ARS § 11-951 through 954,

Council-Regular Meeting **C6**

Meeting Date: 06/21/2016

To: Mayor and Council

Submitted For: Curt Woody, Director of Economic Development and Tourism

From: Jane Fairall, Deputy Town Attorney

Date: June 21, 2016

Strategic Plan Focus Area:
Commerce

Strategic Plan Focus Area Additional Info:
Marana Strategic Plan III Commerce focus area includes principle statements to support commerce and business by being creative and flexible and to seek and retain diverse industries and commerce in order to promote sustainable economic health.

Subject: Resolution No. 2016-064: Relating to Economic Development; approving and authorizing the Mayor to execute a funding agreement between the Town of Marana and the Marana Chamber of Commerce, Inc. for fiscal year 2016-2017 to support operation of the Marana Visitor Center and provision of services to the Marana community (Curt Woody)

Discussion:

The Marana Chamber of Commerce was established in 1987 with a vision to "Build Business and Community Relationships." The Chamber's mission is for staff and members to work collaboratively with all industries and levels of government to build a balance between economic growth and quality of life in our community. The Town and the Chamber have for many years worked collaboratively to promote economic development and commerce in the Town of Marana, with the Town providing annual funding to the Chamber for these purposes pursuant to a funding agreement approved by Council.

Under the proposed agreement for FY 16-17, the Town will provide $45,000 in funding for the Chamber operation of the Marana Visitor Center, as well as funding of other activities undertaken by the Chamber pursuant to the agreement. Under the agreement, the Chamber will:

1. Operate the Marana Visitor Center during established business hours of 8:30 AM – 4:30 PM,

Monday through Friday, observing regular holidays, and will comply with all regulations established by the Arizona Office of Tourism for the operation of Local Visitor Information Centers. The Chamber and Town will also collaborate on finding ways to improve the Visitor Center's appearance and experience, and in finding volunteer staffing for the Center.

2. Provide a link to the Town's tourism website for visitor information.

3. Provide opportunities, as requested, for representatives of the Town to address the Marana community. These opportunities may be as part of another event organized by the Chamber, including Chamber networking breakfasts, Quarterly Business Connection lunches, community and regional updates, legislative and economic development briefings, or other similar events.

4. Produce and distribute a map of Marana streets and incorporated boundaries and a membership directory. The Town may request up to 2,500 maps and directories from the Chamber for the Town's own distribution.

5. Organize and execute the "State of the Town" event to provide Town officials the opportunity to address the community on current affairs.

6. Collaborate with the Town on questions and methodology used to conduct surveys of the Marana community regarding the local business climate.

7. Partner with the Town to promote tourism, including participating in any tourism development initiatives organized and implemented by the Town.

8. Partner with the Town on supporting businesses during the closure of I-10 and Ina Road for the scheduled construction project at that location.

The Chamber will monitor and report quarterly on progress in each of these categories.

The term of the agreement is one year, expiring on June 30, 2017.

Financial Impact:

Fiscal Year:	2017
Budgeted Y/N:	Y
Amount:	$45,000

Staff Recommendation:

Staff recommends approval of the funding agreement.

Suggested Motion:

I move to adopt Resolution No. 2016-064, approving and authorizing the Mayor to execute a funding agreement between the Town of Marana and the Marana Chamber of Commerce, Inc. for fiscal year 2016-2017 to support operation of the Marana Visitor Center and provision of services to the Marana community.

Attachments

Resolution No. 2016-064
Exhibit A - Funding Agreement

MARANA RESOLUTION NO. 2016-064

RELATING TO ECONOMIC DEVELOPMENT; APPROVING AND AUTHORIZING THE MAYOR TO EXECUTE A FUNDING AGREEMENT BETWEEN THE TOWN OF MARANA AND THE MARANA CHAMBER OF COMMERCE, INC. FOR FISCAL YEAR 2016-2017 TO SUPPORT OPERATION OF THE MARANA VISITOR CENTER AND PROVISION OF SERVICES TO THE MARANA COMMUNITY

WHEREAS the Marana Strategic Plan III includes "Commerce" as a focus area with principle statements to support commerce and business by being creative and flexible and to seek and retain diverse industries and commerce in order to promote sustainable economic health; and

WHEREAS the Marana Chamber of Commerce operates the Marana Visitor Center and provides other services to the Town and the community; and

WHEREAS the Mayor and Council of the Town of Marana feel it is in the best interests of the public to enter into this agreement.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND COUNCIL OF THE TOWN OF MARANA AS FOLLOWS:

SECTION 1. The funding agreement between the Town of Marana and the Marana Chamber of Commerce, Inc. for FY 2016-2017, attached to and incorporated by this reference in this resolution as Exhibit A, is hereby approved and the Mayor is hereby authorized to execute it for and on behalf of the Town of Marana.

SECTION 2. The Town's Manager and staff are hereby directed and authorized to undertake all other and further tasks required or beneficial to carry out the terms, obligations, and objectives of the funding agreement.

PASSED AND ADOPTED by the Mayor and Council of the Town of Marana, Arizona, this 21st day of June, 2016.

_____
Mayor Ed Honea

ATTEST:

_____
Jocelyn C. Bronson, Town Clerk

APPROVED AS TO FORM:

_____
Frank Cassidy, Town Attorney

FUNDING AGREEMENT
MARANA CHAMBER OF COMMERCE, INC.

THIS FUNDING AGREEMENT ("Agreement") is entered into by and between the TOWN OF MARANA, an Arizona municipal corporation ("Town") and the MARANA CHAMBER OF COMMERCE, INC., an Arizona 501(c)(6) nonprofit corporation ("Chamber"). The Town and Chamber are sometimes referred to collectively as the "Parties," either of which is sometimes individually referred to as a "Party."

RECITALS

A. Town has established a need for economic development activities to ensure a sustainable community.

B. Commerce is identified as one of the five focus areas of the Marana Strategic Plan, adopted by the Town Council in February 2009, the Marana Strategic Plan II, adopted in March 2012 and Strategic Plan III, adopted in January 2015.

C. Chamber operates a Visitor Center and provides other services for the community that provide information about Town's attractions and business services benefitting the Town and its residents.

D. Town has determined that the general welfare of the citizens of Marana will be substantially advanced by authorizing the funding under the terms and conditions and for the purposes as set forth in this Agreement.

E. The Parties acknowledge that tracking Town payments and Chamber outputs and outcomes resulting from Town funding is prudent practice to assure that public funds are appropriately used and that the public receives the anticipated benefits of the funding.

AGREEMENT

NOW, THEREFORE, based on the foregoing recitals, which are incorporated here by reference, the Parties agree as follows:

Section 1. Funding. Town hereby commits $45,000 of funding from Town's Fiscal Year 2016-2017 budget to Chamber to assist in funding Chamber's activities under this Agreement.

Section 2. Outputs. Between July 1, 2016 and June 30, 2017, Chamber hereby agrees to provide the following outputs with Town general assistance funding provided under this agreement:

2.1. Chamber will operate the Marana Visitor Center during established business hours of 8:30 AM – 4:30 PM, Monday through Friday, observing regular holidays, and will comply with all regulations established by the Arizona Office of Tourism for the operation of Local Visitor Information Centers. The Chamber and Town will collaborate on finding ways to improve the Visitor Center's appearance and experience, and staffing from volunteers.

2.2. Chamber will provide a link on its website to the Town's tourism website for visitor information.

2.3. Chamber will provide opportunities, as requested, for representatives of Town to address the Marana community. These opportunities may be as part of another event organized by Chamber, including Chamber networking breakfasts, Quarterly Business Connection lunches, community and regional updates, legislative and economic development briefings, or other similar events.

2.4. Chamber will produce and distribute a map of Marana streets and incorporated boundaries and a membership directory. Town may request from Chamber a maximum of 2,500 maps and 2,500 directories for its own distribution.

2.5. Chamber will organize and execute the "State of the Town" event to provide Town officials the opportunity to address the community on current affairs.

2.6. Chamber will collaborate with Town on questions and methodology used to conduct surveys of the Marana community regarding the local business climate.

2.7. Chamber will partner with Town to promote tourism, including, but not limited to, participating in any tourism development initiatives organized and implemented by Town.

2.8. Chamber will partner with Town on supporting businesses during the closure of I10 and Ina Road for the scheduled construction project at that location.

Section 3. Payments. Town shall pay Chamber in three installments of $15,000.00 each, once per quarter, except the fourth quarter of Town's fiscal year, upon receipt of a completed Payment Request Form in substantially the form attached as Exhibit A.

Section 4. Reporting. Within 15 days after the end of each calendar quarter for which Chamber receives funding under this Agreement or before receiving its next quarterly payment, whichever occurs first, Chamber shall complete and submit to Town a written quarterly report in substantially the form at-

tached as Exhibit B, demonstrating Chamber's progress toward the outputs listed in Section 2 of this Agreement. Town may additionally request a written or oral report from Chamber at any time demonstrating Chamber's progress in complying with each of the outputs listed in Section 2 of this Agreement.

Section 5. Required Insurance. Before receiving any payment under this Agreement, Chamber shall deliver to Town one or more certificates of insurance with carriers acceptable to Town evidencing the following minimum coverages for at least the term of this Agreement:

5.1. $1,000,000 per occurrence commercial general liability coverage with Town listed as additional insured. Chamber shall deliver an additional insured endorsement along with the certificate(s) of insurance required by this Section. As an additional insured, Town shall be provided coverage for any liability arising out of operations performed in whole or in part by or on behalf of Chamber.

5.2. $1,000,000 per occurrence business automobile liability (if the Chamber has vehicles).

5.3. $1,000,000 per occurrence directors and officers coverage with Town listed as additional insured.

5.4. State of Arizona minimum workers' compensation coverage (if Chamber has paid staff).

5.5. The coverage requirements specified in this Section may not be changed or modified except by written agreement signed by all Parties.

Section 6. Corporate Documents. Before receiving initial payment under this Agreement, Chamber shall ensure that copies of the following Chamber documentation, including any and all amendments are on file with Town:

6.1. Articles of incorporation.

6.2. Current bylaws.

6.3. List of current members of Chamber's Board of Directors.

6.4. Current fiscal year's budget approved by Chamber's Board of Directors.

6.5. Internal Revenue Service designation letter.

Section 7. Amendments to Insurance and Documentation. True and accurate copies of any amendments during the term of this Agreement to coverages or terms of insurance required by Section 5 above or to Chamber's corporate documentation listed in Section 6 above shall be provided to the Town as soon as practicable after approval, but in any event not later than one calendar week after they become effective. Amendments that reduce the insurance coverages below the minimums set forth in Section 5 above or that in the Town's

reasonable opinion materially affect the Chamber's ability to deliver the outputs set forth in Section 2 above constitute default for which Town may withhold payment until Chamber restores the minimum insurance coverages or restores Chamber's ability to deliver the outputs.

Section 8. Default and Dispute Resolution. If either Party defaults (the "Defaulting Party") with respect to any of that Party's obligations under this Agreement, the other Party (the "Non-Defaulting Party") shall be entitled to give written notice in the manner prescribed in Section 10 below to the Defaulting Party, stating the nature of the default claimed and demanding that the default be corrected. The Defaulting Party shall then have 20 days from the date of the notice within which to cure the default. If any default is not cured within 20 days, then the Non-Defaulting Party shall be entitled to begin the mediation and arbitration proceedings set forth in paragraphs 8.1 and 8.2 below.

8.1. Mediation. If there is a dispute under this Agreement which the Parties cannot resolve among themselves, the Parties agree that there shall be a 21-day moratorium on arbitration during which time the Parties agree to attempt to settle the dispute by nonbinding mediation before commencement of arbitration. The mediation shall be held under the commercial mediation rules of the American Arbitration Association. The matter in dispute shall be submitted to a mediator mutually selected by Chamber and Town. If the Parties cannot agree upon the selection of a mediator within seven days, then within three days thereafter Town shall (on its behalf and on behalf of Chamber) request the presiding judge of the Superior Court in and for the County of Pima, State of Arizona, to appoint an independent mediator. The cost of mediation shall be divided equally between the mediating Parties. The results of the mediation shall be nonbinding on the Parties, and any Party shall be free to initiate arbitration after the moratorium period.

8.2. Arbitration. If mediation (paragraph 8.1 above) fails to result in resolution of the dispute, the dispute, controversy, claim or cause of action arising out of or relating to this Agreement shall be settled by submission of the matter by all Parties to binding arbitration in accordance with the rules of the American Arbitration Association and the Arizona Uniform Arbitration Act, A.R.S. § 12-501 *et seq.*, and judgment upon the award rendered by the arbitrator(s) may be entered in a court having jurisdiction.

Section 9. Indemnification. Chamber agrees to defend, save, hold harmless, and indemnify Town, its officials, employees, agents, successors, and assigns from and against any and all manner of claims, suits, lawsuits, action or actions, causes or causes of action, liabilities, damages, and other claims and demands of whatsoever nature or kind, in law or in equity, in tort or in con-

tract, or otherwise caused by or resulting from Chamber's errors, omissions, or negligent acts in the performance of activities pursuant to this Agreement.

Section 10. Manner of Serving. All notices, filings, consents, approvals and other communications provided for in or given in connection with this Agreement shall be validly given, filed, made, transmitted or served if in writing and delivered personally or sent by registered or certified United States mail, postage prepaid, to (or to such other addresses as any Party may from time to time designate in writing and deliver in a like manner):

To Town:

TOWN OF MARANA
Director of Economic Development and Tourism
11555 West Civic Center Drive, Building A3
Marana, Arizona 85653

With a copy to:

TOWN OF MARANA
Town Attorney
11555 West Civic Center Drive Building A3
Marana, Arizona 85653

To Chamber:

MARANA CHAMBER OF COMMERCE, INC.
President and CEO
13881 North Casa Grande Highway
Marana, Arizona 85653

Section 11. Waiver. No delay in exercising any right or remedy shall constitute a waiver of that right or remedy, and no waiver by Town or Chamber of the breach of any term of this Agreement shall be construed as a waiver of any preceding or succeeding breach of the same or any other term of this Agreement.

Section 12. Attorney's Fees. If any Party brings a lawsuit against any other Party to enforce any of the terms of this Agreement, or by reason of any breach or default of this Agreement, the prevailing Party shall be paid all reasonable costs and reasonable attorneys' fees by the other Party, in an amount determined by the court and not by the jury. Nothing in the use of the word "lawsuit" in the preceding sentence shall constitute a waiver, requiring disputes to be resolved by binding arbitration.

Section 13. Headings. The descriptive headings of this Agreement are inserted to assist in understanding the meaning and construction of this Agreement.

Section 14. Recitals. The Recitals set forth at the beginning of this Agreement are hereby acknowledged, confirmed to be accurate and incorporated here.

Section 15. Exhibits. Any exhibit attached to this Agreement shall be deemed to have been incorporated in this Agreement by reference with the same force and effect as if fully set forth in the body of this Agreement.

Section 16. Time Essence. Time is of the essence for purposes of this Agreement.

Section 17. No Assignment. Chamber's obligations under this Agreement may not be assigned without the written consent of the Town Manager or designee.

Section 18. No Partnership and Third Parties. It is not intended by this Agreement to, and nothing contained in this Agreement shall, create any partnership, joint venture or other arrangement between Town and Chamber. No term or provision of this Agreement is intended to, or shall be for the benefit of any person, firm, organization or corporation not a party to this Agreement, and no such other person, firm, organization or corporation shall have any right or cause of action under this Agreement.

Section 19. Other Instruments. Each Party shall, promptly upon the request of the other, have acknowledged and delivered to the other any and all further instruments and assurances reasonably requested or appropriate to evidence or give effect to the provisions of this Agreement.

Section 20. Imposition of Duty by Law. This Agreement does not relieve any Party of any obligation or responsibility imposed upon it by law.

Section 21. Entire Agreement. This Agreement constitutes the entire agreement between the Parties pertaining to the subject matter of this Agreement. All prior and contemporaneous agreements, representation and understanding of the Parties, oral or written, are hereby superseded and merged in this Agreement.

Section 22. Amendments to Agreement. No change or addition shall be made to this Agreement except by a written amendment executed by the Parties. The Parties agree to cooperate and in good faith pursue any amendments to this Agreement that are reasonably necessary to accomplish the goals expressed by this Agreement.

Section 23. Good Standing; Authority. Chamber represents and warrants to Town that it is duly formed and validly existing under the laws of the State of Arizona. Town represents and warrants to Chamber that it is an Arizona municipal corporation with authority to enter into this Agreement under applicable state laws. Each Party represents and warrants that the individual execut-

ing this Agreement on its behalf is authorized and empowered to bind the Party on whose behalf each such individual is signing.

Section 24. Severability. If any provision of this Agreement is declared void or unenforceable, it shall be severed from the remainder of this Agreement, which shall otherwise remain in full force and effect.

Section 25. Governing Law. This Agreement is entered into in Arizona and shall be construed and interpreted under the laws of Arizona, and the Parties agree that any litigation or arbitration shall take place in Pima County, Arizona.

Section 26. Interpretation. This Agreement has been negotiated by Town and Chamber, and no Party shall be deemed to have drafted this Agreement for purposes of construing any portion of this Agreement for or against any Party.

Section 27. Force Majeure. If any Party is unable to perform under this Agreement by reason of "force majeure," then the failure to perform shall not constitute a default under this Agreement as long as the non-performing Party uses its best effort to remedy with all reasonable speed the event or condition causing the non-performance and performance can be restored within a reasonable amount of time. "Force majeure" means any condition or event not reasonably within the control of a Party, including without limitation, "acts of God," strikes, lock-outs, or other disturbances of employer / employee relations; acts of public enemies; orders or restraints of any kind of government of the United States or any state thereof or any of their departments, agencies, or officials, or of any civil or military authority; insurrection; civil disturbances; riots; epidemics; landslides; lightning; earthquakes; subsidence; fires; hurricanes; storms; droughts; floods; arrests, restraints of government and of people; explosions; and partial or entire failure of utilities.

Section 28. Conflict of Interest. This Agreement is subject to A.R.S. § 38-511, which provides for cancellation of contracts by government entities in certain instances involving conflicts of interest.

Section 29. Immigration Laws. Chamber warrants that it, and any subcontractor who performs any work for Chamber under this Agreement, will at all times comply with all federal immigration laws and regulations that relate to its employees and with Arizona Revised Statutes section (A.R.S. §) 23-214 (A). Chamber acknowledges that pursuant to A.R.S. § 41-4401 and effective September 30, 2008, a breach of this warranty is a material breach of this Agreement subject to penalties up to and including termination of this Agreement, and that Town retains the legal right to inspect the papers of any employee who works on the Agreement to ensure compliance with this warranty.

Section 30. Effective Date; Term. This Agreement is effective on the date of the last Party's signature below and shall automatically terminate and shall thereafter be void for all purposes on July 1, 2017, unless sooner terminated by the mutual consent of the Parties.

IN WITNESS WHEREOF, the Parties have executed this agreement as of the date set forth below their respective signatures.

Town:	Chamber:
THE TOWN OF MARANA, an Arizona municipal corporation	MARANA CHAMBER OF COMMERCE, INC., an Arizona 501(c)(6) non-profit corporation
By: _____ Ed Honea, Mayor	By: _____ Printed: _____ Its: _____
Date: _____	Date: _____

ATTEST:

_____
Jocelyn C. Bronson, Town Clerk

APPROVED AS TO FORM:

_____
Frank Cassidy, Town Attorney

EXHIBITS

A. Payment Request Form

B. Quarterly Report Form

TOWN OF MARANA

EXHIBIT A - PAYMENT REQUEST FORM (FY 2016-2017)

Agency/Contractor: Marana Chamber of Commerce, Inc.

Project Name: Visitor's Center Operations

Prepared by: _____
Name: Title:

Authorized by: _____
Authorized Signer Date:

Period Reimbursement Requested For: _____

Payment Number: _____ Expenditures This Period: $ _____

+ / - Adjustments (Program Income/Other): $ _____

Net Request This Period: $ _____

Line Item	Line Item Description	Approved Budget (A)	Expenditures This Period (B)	Expenditures Prior Periods (C)	Balance (D)
1.	Services Support	$ 45,000.00	$ -0-	$ -0-	$ 45,000.00
2.					
3.					
4.					
5.					
	TOTAL (must total Town of Marana award)	$	$	$	$

NOTE: For each line item, the figures in Columns (B), (C), and (D) must total the figure in Column (A).

MANAGER APPROVAL: _____ QUARTERLY REPORT RECEIVED: ☐ YES DATE: _____

FINANCE APPROVAL: _____ CHECK NUMBER: _____ DATE: _____

All requests for budget changes are required to be submitted in writing and approved by Economic Development and Tourism. Changes will only be allowed as long as the total dollar amount contracted for remains the same, the costs are eligible and the 20% administrative cap is not exceeded. Failure to submit timely quarterly performance measures reports may delay the processing of payment requests.

Town of Marana
Quarterly Report – Exhibit B
Fiscal Year 2016-2017

Agency Name: Marana Chamber of Commerce, Inc. **Project:** Visitor's Center Operations

Projected Annual Performance Outcomes and Measurement	July 1- September 30 2016	October 1- December 31 2016	January 1- March 31 2017	April 1- June 30 2017	Year-to- Date Totals	List of Activities with Date
Output: The Chamber will produce and distribute 8,000 Membership Directories. **Data Source:** Chamber records						
Output: The Chamber will distribute 5,000 Marana maps to area merchants, visitor centers, and attractions. **Data Source:** Chamber records						
Output: The Visitor's Center will operate the Monday – Friday, 8:30 am – 4:30 pm observing regular holidays. **Data Source:** Calendar						
Output: The Chamber will track the number of hits on the Visitor section on its website. **Data Source:** Website Counter						
Output: The Visitor's Center will track the number of visitors to the center. **Data Source:** Chamber records						

Council-Regular Meeting **C7**

Meeting Date: 06/21/2016

To: Mayor and Council

From: Libby Shelton, Senior Assistant Town Attorney

Date: June 21, 2016

Strategic Plan Focus Area:
Community

Subject: Resolution No. 2016-065: Relating to the Police Department; exempting undercover vehicles used by the Marana Police Department in felony investigations or activities of a confidential nature from Arizona state laws related to the designation of political subdivision motor vehicles; authorizing the Chief of Police to renew existing vehicle registrations for these undercover police vehicles and to obtain vehicle registrations for new undercover police vehicles to be used in felony investigations or activities of a confidential nature (Libby Shelton)

Discussion:

State law (A.R.S. §38-538) provides that all vehicles used by a political subdivision for official use must bear the name of the political subdivision and the words "for official use only." However, A.R.S. §38-538.03 allows the governing body of a political subdivision to exempt official vehicles that are used for felony investigations or activities of a confidential nature from these requirements. Undercover police vehicles may be exempted under this provision. Per the statute, the Council may grant the exemption for only one year at a time.This agenda item will grant the exemption from the provisions of A.R.S. §38-538 to the Marana Police Department's undercover police vehicles for the upcoming year. The item also authorizes the Chief of Police to take all necessary action to renew existing vehicle registrations for undercover police vehicles and to obtain vehicle registrations for any new undercover police vehicles.

Staff Recommendation:

Staff recommends that Council exempt the undercover police vehicles from state laws regarding the designation of official vehicles and authorize the Chief of Police to obtain the necessary vehicle registrations.

Suggested Motion:

I move to adopt Resolution No. 2016-065, exempting the Marana Police Department's undercover police vehicles from Arizona state laws related to the designation of political subdivision motor vehicles and authorizing the Chief of Police to renew existing vehicle registrations for undercover police vehicles and to obtain vehicle registrations for new undercover police vehicles.

Attachments

Resolution No. 2016-065

MARANA RESOLUTION NO. 2016-065

RELATING TO THE POLICE DEPARTMENT; EXEMPTING UNDERCOVER VEHICLES USED BY THE MARANA POLICE DEPARTMENT IN FELONY INVESTIGATIONS OR ACTIVITIES OF A CONFIDENTIAL NATURE FROM ARIZONA STATE LAWS RELATED TO THE DESIGNATION OF POLITICAL SUBDIVISION MOTOR VEHICLES; AUTHORIZING THE CHIEF OF POLICE TO RENEW EXISTING VEHICLE REGISTRATIONS FOR THESE UNDERCOVER POLICE VEHICLES AND TO OBTAIN VEHICLE REGISTRATIONS FOR NEW UNDERCOVER POLICE VEHICLES TO BE USED IN FELONY INVESTIGATIONS OR ACTIVITIES OF A CONFIDENTIAL NATURE

WHEREAS A.R.S. § 38-538.03 provides that the governing body of a political subdivision may grant an exemption for not more than one year from Arizona state law regulating the designation of political subdivision motor vehicles for motor vehicles used in felony investigations or activities of a confidential nature; and

WHEREAS the Town of Marana Police Department uses a number of undercover police vehicles in felony investigations and in activities of a confidential nature and maintains a list of those vehicles, which list includes the year, make, model and identification number of each vehicle; and

WHEREAS the Mayor and Council of the Town of Marana feel it is in the best interests of the public to exempt these vehicles from state laws regulating the designation of political subdivision motor vehicles.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND COUNCIL OF THE TOWN OF MARANA AS FOLLOWS:

SECTION 1. The Town Council hereby exempts the undercover motor vehicles used by the Marana Police Department in felony investigations or activities of a confidential nature from state laws regulating the designation of political subdivision motor vehicles for a period of one year.

SECTION 2. The Chief of Police is hereby directed and authorized to undertake all other and further tasks required or beneficial to carry out the terms, obligations, and objectives of this resolution, including maintaining a list of the vehicles in question, which list shall include the year, make, model and identification number of each vehicle, and renewing existing vehicle registrations for Marana Police Department undercover vehicles used in felony investigations and in activities of a confidential nature and obtaining vehicle registrations for new Marana Police Department undercover vehicles to be used in these activities.

PASSED AND ADOPTED by the Mayor and Council of the Town of Marana, Arizona, this 21st day of June, 2016.

Mayor Ed Honea

ATTEST:

Jocelyn C. Bronson, Town Clerk

APPROVED AS TO FORM:

Frank Cassidy, Town Attorney

Council-Regular Meeting **C8**

Meeting Date: 06/21/2016

To: Mayor and Council

Submitted For: Jocelyn C. Bronson, Town Clerk

From: Suzanne Sutherland, Assistant to the Town Clerk

Date: June 21, 2016

Subject: Approval of June 7, 2016 Regular Council Meeting Minutes (Jocelyn C. Bronson)

Attachments

Draft 06-07-2016 Regular Council Meeting Minutes

MARANA TOWN COUNCIL
REGULAR COUNCIL MEETING MINUTES
11555 W. Civic Center Drive, Marana, Arizona 85653
Council Chambers, June 7, 2016, at or after 7:00 PM

Ed Honea, Mayor
Jon Post, Vice Mayor
David Bowen, Council Member
Patti Comerford, Council Member
Herb Kai, Council Member
Carol McGorray, Council Member
Roxanne Ziegler, Council Member

REGULAR COUNCIL MEETING

CALL TO ORDER AND ROLL CALL. Mayor Honea called the meeting to order at 7:01 p.m. **Town Clerk Bronson** called roll. All Council Members were present except **Council Member Bowen** who was excused. There was a quorum.

PLEDGE OF ALLEGIANCE/INVOCATION/MOMENT OF SILENCE. Members of the Marana High School choir sang the National Anthem in place of the Pledge of Allegiance.

APPROVAL OF AGENDA. ***Motion to approve by Council Member McGorray, second by Council Member Kai. Passed unanimously 6-0.***

CALL TO THE PUBLIC. There were no speaker cards presented.

PROCLAMATIONS.

MAYOR AND COUNCIL REPORTS: SUMMARY OF CURRENT EVENTS. Council Member Comerford announced that there were four ribbon cuttings for new businesses this week. She thanked the Chamber of Commerce for putting on those events.

MANAGER'S REPORT: SUMMARY OF CURRENT EVENTS. By way of a preview, **Mr. Davidson** introduced some of the team members from Marana High School who will be representing the town in Denver, Colorado at the All America Cities competition in a couple of

weeks. **Shannon Shula**, with the Planning Department, gave an overview of social media and community connection points that were put together for the benefit of citizens and parents of the students who will be going to Denver. She began with an online map with current live feed. The feed is interactive over the 916 miles they will be traveling, so the progress of the bus with the 20 students can be tracked from beginning to end. She continued to point out various clips of the students' rehearsals with software called Photo Journal.

Sarah Ross, Choir Teacher and co-choreographer of the performance, introduced each of the six of twenty students who gave their age and grade in school. Among the students are singers, actors, painters, skilled in set construction, writers, dancers and slam poets. They started rehearsing in May on their own time. The civic engagement they are being exposed to and the opportunities they will have to talk about the All-American competition presentation is invaluable and gives them a much broader view of their community than they had before. After singing a preview of one of the songs they will be performing in the competition, the students introduced themselves and their age and class in the fall of 2016. Jose Gonzalez, age 17 and a senior; Taylor Nixon, age 17 and a senior; Will Klein, age 16 and a junior; Hannah Stock, age 16 and a junior; Jonathan Emmerick, age 16 and a senior; Emma Winters, age 16 and a junior.

Mr. Davidson again thanked Sarah and **Heidi Barton**, the Drama Teacher at Marana High School, for their commitment and the detail they have put into this and last year's rehearsals with the script and song. They and the students are incredible representatives of this community. It will be a very exciting event for everyone.

PRESENTATIONS .

CONSENT AGENDA. ***Motion to approve by Council Member Ziegler, second by Council Member McGorray. Passed unanimously 6-0.***

C1 Relating to Development [The Town Council acting as the Floodplain Board] Relating to Floodplain Management; report to Floodplain Board and order, as required by the Marana Land Development Code and Federal Regulations, concerning the correction of a prior floodplain violation on property located at 13561 N. Sandra Road (Keith Brann)

C2 Resolution No. 2016-054: Relating to Public Works; authorizing Town staff to acquire by negotiation or condemnation the temporary construction easements needed for the Camino Martin/Jeremy Place Roadway Reconstruction Project, Town of Marana Project No. ST033, and authorizing the Town Engineer to sign all related documents (Frank Cassidy)

C3 Resolution No. 2016-055: Relating to Community Development; approving and authorizing the Mayor to execute an Intergovernmental Cooperative Agreement between Pima County and the Town of Marana for the Community Development Block Grant (CDBG) Program and Home Investment Partnership Program for federal fiscal years 2017-2019 (Lisa Shafer)

C4 Resolution No. 2016-056: Relating to Municipal Court; ratifying the appointment of Patrick Moran as a temporary magistrate pro tempore for the Marana Municipal Court (Laine Sklar)

C5 Resolution No. 2016-057: Relating to Public Works; Authorizing the Town Manager to sign joint trench agreements on behalf of the Town of Marana for the Tangerine Road Corridor Project, Town of Marana Project No. ST021 (Frank Cassidy)

C6 Approval of May 17, 2016 Study Session Meeting Minutes and May 17, 2016 Regular Council Meeting Minutes (Jocelyn C. Bronson)

LIQUOR LICENSES

L1 Relating to Liquor Licenses; recommendation to the Arizona Department of Liquor Licenses and Control regarding a special event liquor license application submitted by Patrick Nilz on behalf of the Marana Heritage Conservancy for the 4th of July celebration to be held on July 4, 2016. **Ms. Bronson** indicated that this application was properly reviewed, and as part of the Star Spangled Spectacular event staff is recommending approval. ***Motion to approve by Vice Mayor Post, second by Council Member Kai. Passed unanimously 6-0.***

BOARDS, COMMISSIONS AND COMMITTEES

COUNCIL ACTION

A1 Resolution No. 2016-058: Relating to Animal Control; approving and authorizing the Mayor to execute Amendment No. 01 to the existing intergovernmental agreement between the Town of Marana and Pima County for the provision of animal control services within the Town of Marana. **Lisa Shafer** gave a brief overview of the item and noted that staff came before Council with the item and presented in greater detail at the May 17, 2017 Council meeting. Council gave staff direction at that time to gather more information on alternatives for animal care in our jurisdiction. Staff is moving forward with that. In the meantime, we will go forward with the existing intergovernmental agreement and a one-year extension with Pima County Animal Care. This will give us time to do the ground research and bring the options back to Council. We do have the ability in the current agreement to give a 60-day cancellation, so if we do come up with a solution, then we will be able to that. Staff is recommending approval. ***Motion to approve by Council Member Ziegler, second by Council Member McGorray. Unanimously approved 6-0.*** **Council Member Ziegler** asked Ms. Shafer how long it would be before she came back to Council with alternatives. **Ms. Shafer** stated that staff is putting together a request for proposal for sheltering and veterinary services. It will likely take at least two months for that process to complete. Staff is actively working on the services that the town would have to provide, including enforcement.

ITEMS FOR DISCUSSION/POSSIBLE ACTION

D1 Relating to Legislation and Government Actions; discussion and possible action regarding all pending state, federal, and local legislation/government actions and on recent and upcoming meetings of the other governmental bodies (Gilbert Davidson)

EXECUTIVE SESSIONS.

E1 Executive Session pursuant to A.R.S. §38-431.03 (A)(3), Council may ask for discussion or consultation for legal advice with the Town Attorney concerning any matter listed on this agenda.

FUTURE AGENDA ITEMS

ADJOURNMENT. ***Motion to adjourn at 7:18 p.m. by Vice Mayor Post, second by Council Member McGorray. Passed unanimously 6-0.***

CERTIFICATION

I hereby certify that the foregoing are the true and correct minutes of the Marana Town Council meeting held on June 7, 2016. I further certify that a quorum was present.

_____

Jocelyn C. Bronson, Town Clerk

DRAFT

Council-Regular Meeting **A1**

Meeting Date: 06/21/2016

To: Mayor and Council

From: Erik Montague, Finance Director

Date: June 21, 2016

Strategic Plan Focus Area:
Commerce, Community, Heritage, Recreation, Progress & Innovation

Strategic Plan Focus Area Additional Info:
Marana's Strategic Plan identifies financial sustainability as an overriding principle of Marana's strategic framework.

Subject: PUBLIC HEARING: Resolution No. 2016-066: Relating to Budget; adopting the Town of Marana's fiscal year 2016-2017 final budget (Erik Montague)

Discussion:

On May 17, 2016, Mayor and Council adopted a tentative budget for fiscal year 2016-2017. In adopting the tentative budget, Mayor and Council established the expenditure limitation for the Town for the fiscal year.

Adoption of the attached resolution, which requires a public hearing, is the last formal step in the process of adopting the final budget. After receiving public input, Mayor and Council are being asked to consider adopting a final budget that shall not exceed $170,063,889. There were minor reallocations of expenditure authority between certain line items and funds. Overall expenditures, however, did not change. The following highlights certain items included in the proposed final budget:

Authorized Positions

Including position adjustments made during the current fiscal year, staffing increased 7.9 FTE from 328.33 positions in FY 2016 to 346.63 in FY 2017. The following are the new positions added:

- Management Assistant (temporary position conversion) (1.0 FTE; General Fund)
- Asset Systems Administrator (1.0 FTE; General Fund)
- Development Engineering Division Manager (1.0 FTE; General Fund)

- Police Officer (2.0 FTE; General Fund)
- Senior Maintenance Associate (mid-year) (1.0 FTE; General Fund)
- Maintenance Associate (mid-year) (2.0 FTE; General Fund)
- Recreation Assistant (0.25 FTE; General Fund)
- Code Enforcement Officer (temporary position conversion) (1.0 FTE; General Fund)

Additionally, the vacant positions of Development Coordinator (0.85 FTE; General Fund) and Document Imaging Clerk (0.50 FTE; General Fund) were eliminated during the year.

Team Performance Pay Adjustments

The fiscal year 2016-2017 budget includes a team performance pay adjustment. Team performance pay is based on performance and behavior that is aligned with the Town's strategic plan, policies, directives and cultural values (dedicated service, respect, teamwork and engaged innovation). This adjustment takes into consideration the Town's pay philosophy to maintain a competitive position in the market and to recognize and reward employees who push the organization toward excellence.

Eligible employees may receive up to a 3.5% team performance pay adjustment added to their base pay. Eligible employees who are at the top of their pay range would receive any portion over their maximum pay range as a one-time, lump sum payment.

Additional information regarding these adjustments is included as supplemental materials to this item.

Staff has also included official budget forms required by the State of Arizona's Auditor General's office (Exhibit A) as published for tonight's public hearing.

Upon adoption of the final budget, staff will publish and distribute to Council and department heads a budget document that provides more detailed information. Additionally, this published budget will be submitted to the Government Finance Officers Association for consideration of the Distinguished Budget Presentation Award.

Financial Impact:

Fiscal Year:	2017
Budgeted Y/N:	Y
Amount:	$170,063,889

Adoption of final budget for fiscal year 2016-2017 and establishing the legal level of budgetary control.

Staff Recommendation:

Staff recommends approval of Resolution 2016-066, adopting the fiscal year 2016-2017 final budget.

Suggested Motion:

I move to adopt Resolution No. 2016-066, adopting the Town of Marana's fiscal year 2016-2017 final budget.

Attachments

Resolution No. 2016-066
Resolution Exhibit A
2016-2017 Authorized Position Reconciliation
FY 2017 Salary Schedules
2016-2017 Team Performance Pay Adjustment
2016-2017 Five Year CIP Schedule

MARANA RESOLUTION NO. 2016-066

RELATING TO BUDGET; ADOPTING THE TOWN OF MARANA'S FISCAL YEAR 2016-2017 FINAL BUDGET

WHEREAS in accordance with the provisions of Title 42, Chapter 17, Articles 1-5, Arizona Revised Statutes (A.R.S.), the Marana Town Council did, on May 17, 2016, make an estimate of the different amounts required to meet the public expenditures/expenses for the ensuing year, also an estimate of revenues from sources other than direct taxation, and the amount to be raised by taxation upon real and personal property of the Town of Marana; and

WHEREAS in accordance with said chapter of said title, and following due public notice, the Council met on June 21, 2016, at which meeting any taxpayer was privileged to appear and be heard in favor of or against any of the proposed expenditures/expenses or tax levies; and

WHEREAS it appears that publication has been duly made as required by law, of said estimates together with a notice that the Town Council would meet on June 21, 2016, at the office of the Council for the purpose of hearing taxpayers and making tax levies as set forth in said estimates; and

WHEREAS it appears that the sums to be raised by taxation, as specified therein, do not in the aggregate exceed that amount as computed in A.R.S. §42-17051(A).

NOW, THEREFORE, BE IT RESOLVED by the Mayor and Council of the Town of Marana, Arizona, that the said estimates of revenues and expenditures/expenses shown on the accompanying schedules, attached hereto as Exhibit A and incorporated herein by this reference, as now increased, reduced, or changed, are hereby adopted as the budget of the Town of Marana for the fiscal year 2016-2017.

PASSED AND ADOPTED by the Mayor and Council of the Town of Marana, Arizona, this 21st day of June 2016.

_____
Mayor Ed Honea

ATTEST:

_____
Jocelyn C. Bronson, Town Clerk

APPROVED AS TO FORM:

_____
Frank Cassidy, Town Attorney

TOWN OF MARANA
Summary Schedule of Estimated Revenues and Expenditures/Expenses
Fiscal Year 2017

Fiscal Year		Sch	FUNDS							
			General Fund	Special Revenue Fund	Debt Service Fund	Capital Projects Fund	Permanent Fund	Enterprise Funds Available	Internal Service Funds	Total All Funds
2016	Adopted/Adjusted Budgeted Expenditures/Expenses*	E	40,785,867	8,174,896	8,376,309	57,199,733	0	26,555,787	3,907,016	144,999,608
2016	Actual Expenditures/Expenses**	E	34,759,008	5,379,305	8,166,419	16,021,854	0	5,411,048	3,519,304	73,256,938
2017	Fund Balance/Net Position at July 1***		23,662,353	4,625,992	2,384,278	34,095,513		3,749,546	1,014,221	69,531,903
2017	Primary Property Tax Levy	B	0							0
2017	Secondary Property Tax Levy	B			452,269	68,949				521,218
2017	Estimated Revenues Other than Property Taxes	C	41,218,185	5,787,455	2,376,379	55,381,734	0	9,905,781	4,116,110	118,785,644
2017	Other Financing Sources	D	0	0	25,670,000	5,500,000	0	11,350,000	0	42,520,000
2017	Other Financing (Uses)	D	0	0	25,670,000	0	0	0	0	25,670,000
2017	Interfund Transfers In	D	0	100,000	6,201,238	2,000,000	0	968,101	0	9,269,339
2017	Interfund Transfers (Out)	D	5,371,145	0	0	2,088,668	0	1,809,526	0	9,269,339
2017	Reduction for Amounts Not Available:									
LESS:	Amounts for Future Debt Retirement:									0
										0
										0
										0
2017	Total Financial Resources Available		59,509,393	10,513,447	11,414,164	94,957,528	0	24,163,902	5,130,331	205,688,765
2017	Budgeted Expenditures/Expenses	E	42,988,705	8,003,917	9,029,886	81,633,576	0	24,291,695	4,116,110	170,063,889

EXPENDITURE LIMITATION COMPARISON	2016	2017
1. Budgeted expenditures/expenses	$ 144,999,608	$ 170,063,889
2. Add/subtract: estimated net reconciling items		
3. Budgeted expenditures/expenses adjusted for reconciling items	144,999,608	170,063,889
4. Less: estimated exclusions		
5. Amount subject to the expenditure limitation	$ 144,999,608	$ 170,063,889
6. EEC expenditure limitation	$	$

☐ The city/town does not levy property taxes and does not have special assessment districts for which property taxes are levied. Therefore, Schedule B has been omitted.

* Includes Expenditure/Expense Adjustments Approved in the current year from Schedule E.
** Includes actual amounts as of the date the proposed budget was prepared, adjusted for estimated activity for the remainder of the fiscal year.
*** Amounts on this line represent Fund Balance/Net Position amounts except for amounts not in spendable form (e.g., prepaids and inventories) or legally or contractually required to be maintained intact (e.g., principal of a permanent fund).

TOWN OF MARANA
Tax Levy and Tax Rate Information
Fiscal Year 2017

	2016	2017
1. Maximum allowable primary property tax levy. A.R.S. §42-17051(A)	$	$
2. Amount received from primary property taxation in the **current year** in excess of the sum of that year's maximum allowable primary property tax levy. A.R.S. §42-17102(A)(18)	$	
3. Property tax levy amounts		
A. Primary property taxes	$	$
B. Secondary property taxes	554,194	521,218
C. Total property tax levy amounts	$ 554,194	$ 521,218
4. Property taxes collected*		
A. Primary property taxes		
(1) **Current** year's levy	$ 542,556	
(2) Prior years' levies	554	
(3) Total primary property taxes	$ 543,110	
B. Secondary property taxes		
(1) **Current** year's levy	$	
(2) Prior years' levies		
(3) Total secondary property taxes	$	
C. Total property taxes collected	$ 543,110	
5. Property tax rates		
A. City/Town tax rate		
(1) Primary property tax rate		
(2) Secondary property tax rate	2.8000	2.8000
(3) Total city/town tax rate	2.8000	2.8000
B. Special assessment district tax rates		

Secondary property tax rates - As of the date the proposed budget was prepared, the city/town was operating four special assessment districts for which secondary property taxes are levied. For information pertaining to these special assessment districts and their tax rates, please contact the city/town.

* Includes actual property taxes collected as of the date the proposed budget was prepared, plus estimated property tax collections for the remainder of the fiscal year.

TOWN OF MARANA
Revenues Other Than Property Taxes
Fiscal Year 2017

SOURCE OF REVENUES	ESTIMATED REVENUES 2016	ACTUAL REVENUES* 2016	ESTIMATED REVENUES 2017
GENERAL FUND			
Local taxes			
Sales taxes	$ 22,674,325	$ 22,945,650	$ 24,156,385
Licenses and permits			
Building and development fees	2,653,000	3,053,925	3,480,385
Business and license fees	168,000	158,740	160,000
Franchise fees	350,000	385,159	400,000
Host Fees	350,000		
Intergovernmental			
State shared sales taxes	3,339,932	3,287,845	3,891,291
Urban revenue sharing	4,209,300	4,209,300	5,057,824
Auto lieu	1,465,110	1,378,650	1,770,957
Other	85,000	69,453	85,000
Charges for services			
Charges for services	455,750	468,576	489,160
Fines and forfeits			
Court fines and fees	630,000	634,750	640,000
Interest on investments			
Interest	175,000	185,453	200,000
Contributions			
Voluntary contributions	161,000	165,924	231,264
Miscellaneous			
Other miscellaneous	619,150	765,959	655,919
Total General Fund	$ 37,335,567	$ 37,709,384	$ 41,218,185

* Includes actual revenues recognized on the modified accrual or accrual basis as of the date the proposed budget was prepared, plus estimated revenues for the remainder of the fiscal year.

TOWN OF MARANA
Revenues Other Than Property Taxes
Fiscal Year 2017

SOURCE OF REVENUES	ESTIMATED REVENUES 2016	ACTUAL REVENUES* 2016	ESTIMATED REVENUES 2017
SPECIAL REVENUE FUNDS			
Community development block grants	$ 215,000	$ 96,457	$ 261,700
Affordable housing revolving	100,000	15,689	10,000
Other grants and contributions	1,043,178	434,714	1,183,593
RICO	30,515	34,739	30,515
	$ 1,388,693	$ 581,599	$ 1,485,808
Impound	$ 50,000	$ 43,960	$ 50,000
Bed Tax	925,450	932,058	937,884
Emergency telecommunications	65,000	48,950	52,000
Local JCEF	15,000	13,950	15,000
	$ 1,055,450	$ 1,038,918	$ 1,054,884
Fill the GAP	$ 4,000	$ 6,824	$ 6,000
Local technology enhancement	140,000	138,547	140,000
Highway user revenue	2,460,429	2,458,790	3,100,763
	$ 2,604,429	$ 2,604,161	$ 3,246,763
Total Special Revenue Funds	$ 5,048,572	$ 4,224,678	$ 5,787,455

* Includes actual revenues recognized on the modified accrual or accrual basis as of the date the proposed budget was prepared, plus estimated revenues for the remainder of the fiscal year.

TOWN OF MARANA
Revenues Other Than Property Taxes
Fiscal Year 2017

SOURCE OF REVENUES	ESTIMATED REVENUES 2016	ACTUAL REVENUES* 2016	ESTIMATED REVENUES 2017
DEBT SERVICE FUNDS			
Tangerine farms road improvement district	$ 2,034,816	$ 2,045,950	$ 2,111,776
Gladden farms CFD debt	275,005	273,590	264,603
	$ 2,309,821	$ 2,319,540	$ 2,376,379
Total Debt Service Funds	$ 2,309,821	$ 2,319,540	$ 2,376,379
CAPITAL PROJECTS FUNDS			
Transportation	$ 5,242,050	$ 5,506,508	$ 5,933,250
One-half cent sales tax	4,800,000	4,387,839	6,000,000
Impact fee funds	1,843,176	1,675,930	1,546,093
Other capital projects	10,710,028	569,365	891,075
	$ 22,595,254	$ 12,139,642	$ 14,370,418
Downtown reinvestment	$ 125,000	$ 168,754	$ 180,165
Regional transportation authority	18,690,634	8,173,912	40,382,226
Tangerine farms road improvement district	35,000	34,950	35,000
Gladden farms CFD capital			
	$ 18,850,634	$ 8,377,616	$ 40,597,391
Gladden farms II CFD capital	$	$	$
Vanderbilt farms CFD capital	27,500	26,750	29,839
Saguaro springs CFD capital	318,135	54,975	384,086
	$ 345,635	$ 81,725	$ 413,925
Total Capital Projects Funds	$ 41,791,523	$ 20,598,983	$ 55,381,734

* Includes actual revenues recognized on the modified accrual or accrual basis as of the date the proposed budget was prepared, plus estimated revenues for the remainder of the fiscal year.

TOWN OF MARANA
Revenues Other Than Property Taxes
Fiscal Year 2017

SOURCE OF REVENUES	ESTIMATED REVENUES 2016	ACTUAL REVENUES* 2016	ESTIMATED REVENUES 2017
ENTERPRISE FUNDS			
Water utility	$ 5,049,571	$ 4,795,695	$ 5,561,518
Airport	2,937,313	459,658	2,295,569
Wastewater utility	1,568,479	1,595,805	2,048,694
	$ 9,555,363	$ 6,851,158	$ 9,905,781
Total Enterprise Funds	$ 9,555,363	$ 6,851,158	$ 9,905,781

* Includes actual revenues recognized on the modified accrual or accrual basis as of the date the proposed budget was prepared, plus estimated revenues for the remainder of the fiscal year.

TOWN OF MARANA
Revenues Other Than Property Taxes
Fiscal Year 2017

SOURCE OF REVENUES	ESTIMATED REVENUES 2016	ACTUAL REVENUES* 2016	ESTIMATED REVENUES 2017
INTERNAL SERVICE FUNDS			
Health benefits	$ 3,648,964	$ 3,497,856	$ 3,856,160
Dental benefits	258,052	251,457	259,950
	$ 3,907,016	$ 3,749,313	$ 4,116,110
Total Internal Service Funds	$ 3,907,016	$ 3,749,313	$ 4,116,110
TOTAL ALL FUNDS	$ 99,947,862	$ 75,453,056	$ 118,785,644

* Includes actual revenues recognized on the modified accrual or accrual basis as of the date the proposed budget was prepared, plus estimated revenues for the remainder of the fiscal year.

TOWN OF MARANA
Other Financing Sources/<Uses> and Interfund Transfers
Fiscal Year 2017

FUND	OTHER FINANCING 2017 SOURCES	OTHER FINANCING 2017 <USES>	INTERFUND TRANSFERS 2017 IN	INTERFUND TRANSFERS 2017 <OUT>
GENERAL FUND				
Other grants and contributions	$	$	$	$ 100,000
Other capital projects				2,000,000
2008 debt service				549,120
2013 debt service				1,222,199
2014 debt service				531,725
Airport				343,101
Wastewater utility				625,000
Total General Fund	$	$	$	$ 5,371,145
SPECIAL REVENUE FUNDS				
Other grants and contributions	$	$	$ 100,000	$
Total Special Revenue Funds	$	$	$ 100,000	$
DEBT SERVICE FUNDS				
2008 debt service	$	$ 25,670,000	$ 2,637,788	$
2013 debt service			3,031,725	
2014 debt service			531,725	
2016 debt service	25,670,000			
Total Debt Service Funds	$ 25,670,000	$ 25,670,000	$ 6,201,238	$
CAPITAL PROJECTS FUNDS				
Transportation	$	$	$	$ 862,294
Impact fees				1,226,374
Other capital projects			2,000,000	
Gladden farms II CFD	1,000,000			
Saguaro springs CFD	4,500,000			
Total Capital Projects Funds	$ 5,500,000	$	$ 2,000,000	$ 2,088,668
PERMANENT FUNDS				
	$	$	$	$
Total Permanent Funds	$	$	$	$
ENTERPRISE FUNDS				
Airport	$	$	$ 343,101	$
Water utility	4,000,000			904,763
Wastewater utility	7,350,000		625,000	904,763
Total Enterprise Funds	$ 11,350,000	$	$ 968,101	$ 1,809,526
INTERNAL SERVICE FUNDS				
	$	$	$	$

TOWN OF MARANA
Other Financing Sources/<Uses> and Interfund Transfers
Fiscal Year 2017

FUND	OTHER FINANCING 2017 SOURCES	OTHER FINANCING 2017 <USES>	INTERFUND TRANSFERS 2017 IN	INTERFUND TRANSFERS 2017 <OUT>
Total Internal Service Funds	$	$	$	$
TOTAL ALL FUNDS	$ 42,520,000	$ 25,670,000	$ 9,269,339	$ 9,269,339

TOWN OF MARANA
Expenditures/Expenses by Fund
Fiscal Year 2017

FUND/DEPARTMENT	ADOPTED BUDGETED EXPENDITURES/ EXPENSES 2016	EXPENDITURE/ EXPENSE ADJUSTMENTS APPROVED 2016	ACTUAL EXPENDITURES/ EXPENSES* 2016	BUDGETED EXPENDITURES/ EXPENSES 2017
GENERAL FUND				
Non-departmental	$ 2,158,833	$ 10,000	$ 2,050,891	$ 1,278,097
Mayor and council	294,338		279,621	289,572
Town manager	1,503,103		1,427,948	1,650,390
Town clerk	280,565		266,537	497,244
Human resources	800,451		760,428	879,634
Finance	1,092,364		1,037,746	1,212,225
Legal	800,357		760,339	832,495
Technology services	2,517,151		2,391,293	2,554,348
Economic and tourism develop	192,356	(3,333)	182,738	200,285
Development services admin	233,359		221,691	324,349
Development records	175,115		166,359	
Building safety	1,082,267		1,028,154	1,121,615
Planning	1,056,705		1,003,870	1,194,939
Engineering	2,248,345		2,135,928	2,598,690
Police	11,596,480		11,416,656	12,134,654
Courts	1,031,570		979,992	1,033,015
Public works	3,208,563	350,000	3,048,135	3,526,743
Parks and recreation	3,713,984		3,528,285	3,988,586
Community development	596,728	(3,334)	566,892	963,860
Capital outlay	1,207,900		1,147,505	1,707,964
Contingency	5,000,000	(358,000)	358,000	5,000,000
Total General Fund	$ 40,790,534	$ (4,667)	$ 34,759,008	$ 42,988,705
SPECIAL REVENUE FUNDS				
Highway user revenue	$ 3,768,678	$	$ 3,698,568	$ 3,867,177
Revolving affordable housing	70,000			215,720
Local JCEF	82,000			82,000
Fill the GAP	34,500			34,500
Local technology	475,408		37,712	283,256
Community development block gran	215,000		96,457	261,700
Bed tax	931,576	667	898,480	940,649
Other grants and contributions	1,373,346		434,714	1,193,665
RICO	1,086,621		87,964	1,034,500
Impound fees	65,350		63,897	19,000
Emergency telecommunications	71,750		61,513	71,750
Total Special Revenue Funds	$ 8,174,229	$ 667	$ 5,379,305	$ 8,003,917
DEBT SERVICE FUNDS				
Series 2008 debt	$ 2,639,275	$	$ 2,639,275	$ 2,637,788
Series 2013 debt	2,034,816		2,034,816	3,031,725
Series 2014 debt	514,071		514,071	531,725
Tangerine farms ID debt	2,236,875		2,276,985	2,111,776
Gladden farms CFD debt	701,272		701,272	716,872
Saguaro springs CFD debt	250,000			
Total Debt Service Funds	$ 8,376,309	$	$ 8,166,419	$ 9,029,886

TOWN OF MARANA
Expenditures/Expenses by Fund
Fiscal Year 2017

FUND/DEPARTMENT	ADOPTED BUDGETED EXPENDITURES/ EXPENSES 2016	EXPENDITURE/ EXPENSE ADJUSTMENTS APPROVED 2016	ACTUAL EXPENDITURES/ EXPENSES* 2016	BUDGETED EXPENDITURES/ EXPENSES 2017
CAPITAL PROJECTS FUNDS				
Transportation	$ 8,271,013	$	$ 2,623,922	$ 15,026,708
One-half percent sales tax	4,500,000		685,922	7,092,271
Impact fee funds	8,437,236		2,139,584	9,758,097
Tangerine farms ID	35,000		23,420	35,000
Other capital projects	11,177,600		2,365,953	2,698,275
Downtown reinvestment	185,319			185,319
Regional transportation authority	18,690,634		8,173,912	40,382,227
Gladden farms CFD	1,228,152		8,952	1,531,272
Gladden farms II CFD	213		63	213
Saguaro springs CFD	4,642,000		63	4,892,000
Vanderbilt farms CFD	32,566		63	32,194
Total Capital Projects Funds	$ 57,199,733	$	$ 16,021,854	$ 81,633,576
PERMANENT FUNDS				
	$	$	$	$
Total Permanent Funds	$	$	$	$
ENTERPRISE FUNDS				
Water utility	$ 14,548,871	$	$ 3,795,447	$ 10,178,570
Airport	3,198,489	4,000	355,981	1,943,389
Wastewater utility	8,804,427		1,259,620	12,169,736
Total Enterprise Funds	$ 26,551,787	$ 4,000	$ 5,411,048	$ 24,291,695
INTERNAL SERVICE FUNDS				
Health benefits	$ 3,648,964	$	$ 3,294,580	$ 3,856,160
Dental benefits	258,052		224,724	259,950
Total Internal Service Funds	$ 3,907,016	$	$ 3,519,304	$ 4,116,110
TOTAL ALL FUNDS	$ 144,999,608	$	$ 73,256,938	$ 170,063,889

* Includes actual expenditures/expenses recognized on the modified accrual or accrual basis as of the date the proposed budget was prepared, plus estimated expenditures/expenses for the remainder of the fiscal year.

TOWN OF MARANA
Expenditures/Expenses by Department
Fiscal Year 2017

DEPARTMENT/FUND	ADOPTED BUDGETED EXPENDITURES/ EXPENSES 2016	EXPENDITURE/ EXPENSE ADJUSTMENTS APPROVED 2016	ACTUAL EXPENDITURES/ EXPENSES* 2016	BUDGETED EXPENDITURES/ EXPENSES 2017
Town manager:				
General Fund	$ 1,503,103	$	$ 1,427,948	$ 1,650,390
Bed Tax Fund	41,727		40,545	5,108
Department Total	$ 1,544,830	$	$ 1,468,493	$ 1,655,498
Economic and tourism development:				
General Fund	$ 192,356	$	$ 182,738	$ 200,285
Bed Tax Fund	267,129		256,458	260,619
Department Total	$ 459,485	$	$ 439,196	$ 460,904
Police:				
General Fund	$ 11,596,480	$	$ 11,416,656	$ 12,134,654
RICO	37,500		87,964	34,500
Impound fees	65,350		63,897	19,000
Other grants	372,346		149,856	512,876
Emergency telecommunications	71,750		61,513	71,750
Department Total	$ 12,143,426	$	$ 11,779,886	$ 12,772,780
Court:				
General Fund	$ 1,031,570	$	$ 979,992	$ 1,033,015
Local JCEF	72,000			72,000
Fill the GAP	34,500			34,500
Local tech enhancement	475,408		37,712	283,256
Department Total	$ 1,613,478	$	$ 1,017,704	$ 1,422,771
Public works:				
General Fund	$ 3,208,563	$	$ 3,048,135	$ 3,526,743
Highway user revenue fund	2,758,717		3,698,568	3,000,590
Department Total	$ 5,967,280	$	$ 6,746,703	$ 6,527,333
Community Development:				
General Fund	$ 596,728	$	$ 566,892	$ 963,860
CDBG	215,000		96,457	261,700
Revolving affordable housing	70,000			215,720
Department Total	$ 881,728	$	$ 663,349	$ 1,441,280

* Includes actual expenditures/expenses recognized on the modified accrual or accrual basis as of the date the proposed budget was prepared, plus estimated expenditures/expenses for the remainder of the fiscal year.

TOWN OF MARANA
Full-Time Employees and Personnel Compensation
Fiscal Year 2017

FUND	Full-Time Equivalent (FTE) 2017	Employee Salaries and Hourly Costs 2017	Retirement Costs 2017	Healthcare Costs 2017	Other Benefit Costs 2017	Total Estimated Personnel Compensation 2017
GENERAL FUND	297.6	$ 18,605,772	$ 2,718,826	$ 3,153,963	$ 2,196,854	$ 26,675,415
SPECIAL REVENUE FUNDS						
Other grant funds	11.2	$ 317,007	$ 79,886	$ 49,240	$ 46,743	$ 492,876
Bed tax	1.2	68,621	7,850	11,219	6,637	94,327
Local technology	1.0	31,362	3,557	11,659	2,678	49,256
Highway user revenue	5.6	229,339	25,877	50,569	49,523	355,308
Total Special Revenue Funds	19.0	$ 546,346	$ 105,763	$ 99,809	$ 96,266	$ 848,184
ENTERPRISE FUNDS						
Water utility	23.0	$ 1,269,315	$ 144,922	$ 246,576	$ 160,898	$ 1,821,711
Airport	3.0	174,892	19,966	33,424	24,650	252,932
Wastewater utility	4.0	249,237	28,265	59,436	32,484	369,422
Total Enterprise Funds	30.0	$ 1,693,444	$ 193,153	$ 339,436	$ 218,032	$ 2,444,065
TOTAL ALL FUNDS	346.6	$ 20,845,562	$ 3,017,742	$ 3,593,208	$ 2,511,152	$ 29,967,664

PROPOSED DETAILED AUTHORIZED POSITION SCHEDULE
FISCAL YEAR 2016 - 2017 FINAL BUDGET

	2013 Actual	2014 Adopted	2014 Actual	2015 Adopted	2015 Actual	2016 Adopted	2016 Estimated	2017 Adopted
Town Manager								
Town Manager	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Deputy Town Manager	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Management Assistant	1.00	1.00	2.00	2.00	2.00	2.00	2.00	3.00
Executive Assistant to the Town Manager	-	-	-	-	-	-	-	1.00
Administrative Assistant	0.50	0.50	1.00	1.00	1.00	1.00	1.00	1.00
Customer Service Clerk	-	-	1.13	1.13	1.13	1.13	1.13	1.13
Assistant to the Town Manager	-	-	-	-	1.00	1.00	1.00	1.00
Senior Executive Assistant	-	-	1.00	1.00	1.00	1.00	1.00	-
Assistant Town Manager	-	-	-	1.00	-	-	-	-
Senior Administrative Manager	1.00	1.00	-	-	-	-	-	-
Customer Service Specialist	2.13	2.13	-	-	-	-	-	-
Council Liaison	1.00	1.00	-	-	-	-	-	-
Communication and Marketing Division (20)								
Communications Manager	-	-	-	-	-	-	-	1.00
Graphic Designer	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Public Information Officer (PIO)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-
Special Events Division (30)								
Special Events Coordinator	-		-	-	1.00	1.00	1.00	1.00
Safety Division (40)								
Emergency Management and Safety Coordinator	-	1.00	1.00	1.00	1.00	1.00	-	-
Total Town Manager Office	**9.63**	**10.63**	**10.13**	**11.13**	**12.13**	**12.13**	**11.13**	**12.13**
Town Clerk								
Town Clerk	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Deputy Town Clerk	-	-	-	-	-	-	1.00	1.00
Executive Assistant	-	-	-	-	-	-	-	1.00
Records Clerk	-	-	-	-	-	-	2.00	2.00
Records Administrator	1.00	1.00	1.00	1.00	1.00	1.00	-	-
Assistant to the Town Clerk	-	-	1.00	1.00	1.00	1.00	1.00	-
Agenda & Records Clerk	1.00	1.00	-	-	-	-	-	-
Total Town Clerk	**3.00**	**3.00**	**3.00**	**3.00**	**3.00**	**3.00**	**5.00**	**5.00**
Human Resources								
Human Resources Director	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Human Resources Deputy Director	-	-	-	-	-	-	-	1.00
Sr. Human Resources Analyst	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Human Resources Analyst					1.00	1.00	1.00	1.00
Executive Assistant			1.00	1.00	1.00	1.00	1.00	1.00
Assistant Human Resources Director			1.00	1.00	1.00	1.00	1.00	-
Human Resources Technician	1.00	1.00	1.00	1.00				
Human Resources Coordinator	-	-	-	-	-	-	-	-
Employee Relations Administrator	1.00	1.00	-	-	-	-	-	-
Administrative Assistant	0.50	0.50	-	-	-	-	-	-
Safety Division (40)								
Emergency Management and Safety Coordinator	-	-	-	-	-	-	1.00	1.00
Total Human Resources	**5.50**	**5.50**	**6.00**	**6.00**	**6.00**	**6.00**	**7.00**	**7.00**
Finance								
Finance Director	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Finance Manager	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Management & Budget Analyst	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Payroll Administrator	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Procurement Officer	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Procurement Agent	-	-	-	-	-	-	-	1.00
Senior Accountant	1.00	1.00	1.00	2.00	2.00	2.00	2.00	2.00
Senior Accounting Clerk	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Accounting Clerk	1.35	1.35	1.35	1.35	1.35	1.75	1.75	1.75
Administrative Assistant	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Asset Administrator	-	-	-	-	-	-	-	1.00
Contracts Administrator	-	1.00	1.00	1.00	1.00	1.00	1.00	-
Total Finance	**8.85**	**9.85**	**9.85**	**10.85**	**10.85**	**11.25**	**11.25**	**12.25**

PROPOSED DETAILED AUTHORIZED POSITION SCHEDULE
FISCAL YEAR 2016 - 2017 FINAL BUDGET

	2013 Actual	2014 Adopted	2014 Actual	2015 Adopted	2015 Actual	2016 Adopted	2016 Estimated	2017 Adopted
Legal Department								
Town Attorney	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Deputy Town Attorney	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Senior Assistant Town Attorney	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Assistant Town Attorney	-	-	-	-	-	1.00	1.00	1.00
Legal Assistant	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Legal Document Clerk			1.00	1.00	1.00	1.00	1.00	1.00
Administrative Assistant	1.50	1.50	0.50	0.50	0.50	0.50	0.50	0.50
Associate Town Attorney	1.00	1.00	1.00	1.00	1.00			
Real Property Acquisition Agent	-	-	-	-	-	-	-	-
Office Support Assistant	-	-	-	-	-	-	-	-
Total Legal Department	**6.50**	**6.50**	**6.50**	**6.50**	**6.50**	**6.50**	**6.50**	**6.50**
Technology Services								
Technology Services Director	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Technology Manager	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Senior Network Administrator	-		-	-	-	1.00	1.00	1.00
Network Administrator	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Database Administrator	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Website Administrator	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Senior GIS Analyst	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
GIS Analyst	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Technology Analyst	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Technology Support Specialist II	-	-	-	-	-	-	-	2.00
Technology Support Specialist I	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Business Process Analyst	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Senior Technology Support Specialist	2.00	2.00	2.00	2.00	2.00	2.00	2.00	-
Executive Assistant	-	-	-	-	-	-	-	-
Total Technology Services	**12.00**	**13.00**	**13.00**	**13.00**	**13.00**	**14.00**	**14.00**	**14.00**
Office of Economic and Tourism Development								
Director of Economic and Tourism Development	-	-	-	1.00	1.00	1.00	1.00	1.00
Tourism Development Manager	-	-	-	1.00	1.00	1.00	1.00	1.00
Total Strategic Initiatives	**-**	**-**	**-**	**2.00**	**2.00**	**2.00**	**2.00**	**2.00**
Office of Strategic Initiatives								
Economic Development & Strategic Initiatives Manager	-	-	-	-	-	-	-	-
Public Information Officer (PIO)	-	-	-	-	-	-	-	-
Special Events Coordinator	-	-	-	-	-	-	-	-
Graphic Designer	-	-	-	-	-	-	-	-
Management Assistant	-	-	-	-	-	-	-	-
Administrative Assistant	-	-	-	-	-	-	-	-
Total Strategic Initiatives	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Community Development & Neighborhood Services								
Community Development Director	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Grants & Housing Coordinator	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Housing Rehabilitation Specialist	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Special Events Coordinator	1.00	1.00	1.00	-	-	-	-	-
Code Enforcement Division (10)								
Code Enforcement Official	-	-	-	-	-	-	-	1.00
Code Enforcement Officer	-	-	-	-	-	-	-	2.00
Total Community Development	**4.00**	**4.00**	**4.00**	**3.00**	**3.00**	**3.00**	**3.00**	**6.00**
Development Services Administration								
Development Services Center Manager	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Executive Assistant	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Customer Service Clerk	-		-	-	-	1.00	1.00	1.00
Development Services General Manager	-	1.00	1.00	-	-	-	-	-
Economic Development Manager	1.00	1.00	1.00	-	-	-	-	-
Total GM - Development Services	**3.00**	**4.00**	**4.00**	**2.00**	**2.00**	**3.00**	**3.00**	**3.00**

PROPOSED DETAILED AUTHORIZED POSITION SCHEDULE
FISCAL YEAR 2016 - 2017 FINAL BUDGET

	2013 Actual	2014 Adopted	2014 Actual	2015 Adopted	2015 Actual	2016 Adopted	2016 Estimated	2017 Adopted
Records Center								
Records Clerk						1.00	-	-
Document Imaging Clerk	1.50	1.50	1.50	1.50	1.50	0.50	0.50	-
Permits Center & Records Manager	-	-	-	-	-	-	-	-
Real Property Acquisition Agent	1.00	-	-	-	-	-	-	-
Senior Permit Clerk	1.00	1.00	1.00	-	-	-	-	-
Development Coordinator	2.00	2.00	1.85	-	-	-	-	-
Permit Clerk	3.00	3.00	3.00	-	-	-	-	-
Project Coordinator	1.00	1.00	1.00	-	-	-	-	-
Total Records Center	**9.50**	**8.50**	**8.35**	**1.50**	**1.50**	**1.50**	**0.50**	**-**
Building Safety								
Building Safety Director	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Chief Building Inspector	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Building Safety Coordinator	-	-	-	-	-	-	1.00	1.00
Senior Plans Examiner	1.00	1.00	2.00	2.00	2.00	2.00	1.00	1.00
Plans Examiner	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Building Inspector II	1.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Building Inspector I	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Permit Clerk	-	-	-	3.00	3.00	3.00	3.00	3.00
Development Coordinator	-	-	-	-	-	-	1.00	1.00
Senior Permit Clerk	-	-	-	1.00	1.00	1.00	-	-
Plans Examiner/Permit Coordinator	-	-	-	-	-	-	-	-
Plan Review Technician	1.00	1.00	1.00	1.00	1.00	1.00	-	-
Code Enforcement Officer	-	-	-	-	-	-	-	-
Total Building Safety	**8.00**	**9.00**	**9.00**	**13.00**	**13.00**	**13.00**	**12.00**	**12.00**
Planning Department								
Planning Director	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Environmental Project Manager	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Principal Planner	-	-	-	-	-	-	-	1.00
Senior Planner	-	-	-	-	-	1.00	-	4.00
Planner	-	-	-	-	-	-	-	1.00
Development Coordinator	-	-	-	1.85	1.85	1.85	1.85	1.00
Planner II	2.00	2.00	2.00	2.00	3.00	2.00	3.00	-
Planner I	4.00	4.00	4.00	4.00	3.00	3.00	3.00	-
Assistant Planning Director	-	-	-	-	-	-	-	-
Total Planning Department	**7.00**	**8.00**	**8.00**	**9.85**	**9.85**	**9.85**	**9.85**	**9.00**
Engineering								
Town Engineer	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Engineering Deputy Director	-	-	-	-	-	-	-	1.00
CIP Engineering Division Manager	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Traffic Division Manager	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Civil Engineer	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Environmental Project Manager	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Engineering Specialist	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Engineering Aide	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CIP Engineering Division Manager	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Construction Manager	-	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Project Coordinator	-	1.00	1.00	2.00	2.00	2.00	2.00	2.00
Construction Inspector	-	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Right of Way Inspector	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Project Control Specialist	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Project Manager	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Real Property Acquisition Agent	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Senior Executive Assistant	-	-	-	-	-	-	-	1.00
Development Engineering Division Manager	-	-	-	-	-	-	-	1.00
Assistant Director of Engineering	-	1.00	1.00	1.00	1.00	1.00	1.00	-
Executive Assistant	-	1.00	1.00	1.00	1.00	1.00	1.00	
Traffic Engineer	1.00	1.00	1.00	-	-	-	-	-
Senior Plans Examiner	-	-	-	-	-	-	-	-
Plans Examiner	-	-	-	-	-	-	-	-
Plans Review Technician	-	-	-	-	-	-	-	-
Total Engineering	**11.00**	**22.00**	**22.00**	**22.00**	**22.00**	**22.00**	**22.00**	**23.00**

PROPOSED DETAILED AUTHORIZED POSITION SCHEDULE
FISCAL YEAR 2016 - 2017 FINAL BUDGET

	2013 Actual	2014 Adopted	2014 Actual	2015 Adopted	2015 Actual	2016 Adopted	2016 Estimated	2017 Adopted
Police								
Chief of Police	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Deputy Chief of Police	-	-	1.00	1.00	1.00	1.00	1.00	1.00
Police Captain	1.00	1.00	-	1.00	1.00	1.00	1.00	1.00
Police Lieutenant	3.00	3.00	3.00	2.00	2.00	2.00	2.00	2.00
Police Sergeant	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00
Police Officer	57.00	58.00	63.00	65.00	65.00	67.00	67.00	69.00
Police Records Supervisor	1.00	1.00	2.00	2.00	1.00	1.00	1.00	1.00
Police Telecommunications Supervisor	1.00	1.00	1.00	1.00	2.00	2.00	2.00	2.00
Dispatcher	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
Police Records Specialist	-	-	-	-	-	-	-	2.00
Police Records Clerk	6.00	6.00	5.00	5.00	5.00	6.00	6.00	4.00
Crime Scene/Property & Evidence Supervisor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Crime Analyst	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Crime Scene Specialist	2.00	2.00	2.00	3.00	3.00	3.00	3.00	3.00
Executive Assistant	-	-	1.00	1.00	1.00	1.00	1.00	1.00
Administrative Assistant	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Transcriptionist	-	-	1.00	1.00	1.00	-	-	-
Detective	5.00	5.00	-	-	-	-	-	-
Police Telecommunications Manager	1.00	1.00	-	-	-	-	-	-
Administrative Manager	1.00	1.00	-	-	-	-	-	-
Total Police Department	**105.00**	**106.00**	**106.00**	**109.00**	**109.00**	**111.00**	**111.00**	**113.00**
Courts								
Town Magistrate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Court Services Operations Specialist	-	-	1.00	1.00	1.00	1.00	1.00	1.00
Court Administrator	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Court Probation Monitor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Court Security Guard	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Court Collections Specialist	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Court Supervisor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Courtroom Specialist II	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Courtroom Specialist I	-	-	1.00	1.00	1.00	1.00	1.00	1.00
Court Clerk	5.00	5.00	4.00	4.00	4.00	4.00	4.00	4.00
Executive Assistant	1.00	1.00	-	-	-	-	-	-
Total Courts	**14.00**	**14.00**	**14.00**	**14.00**	**14.00**	**14.00**	**14.00**	**14.00**
Public Works Administration								
Public Works Director	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Traffic Operations Engineering Manager			-	1.00	1.00	1.00	1.00	1.00
Community Response Manager	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Executive Assistant	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Administrative Assistant	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Assistant Public Works Director	-	1.00	1.00	-	-	-	-	-
Public Services General Manager	1.00	-	-	-	-	-	-	-
Contracts Analyst	1.00	-	-	-	-	-	-	-
Senior Administrative Assistant	1.00	-	-	-	-	-	-	-
Code Enforcement Division (10)								
Code Enforcement Officer	2.00	2.00	2.00	2.00	2.00	2.00	2.00	-
Fleet Division (20)								
Superintendent	-		-	-	-	1.00	1.00	1.00
Lead Fleet Technician	-	-	-	-	-	-	-	1.00
Engine Mechanic	-	-	-	-	-	-	-	1.00
Fleet Technician II	1.00	1.00	2.00	2.00	2.00	2.00	2.00	2.00
Small Engine Mechanic	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Foreman						1.00	1.00	
Fleet Technician I	1.00	1.00	-	-	-	-	-	-
Airport Operations Coordinator	1.00	1.00	1.00	1.00	-	-	-	-
Facilities & Fleet Services Manager	-	-	-	-	-	-	-	-
Streets Division (30)								
Superintendent	-		-	-	-	1.00	1.00	1.00
Traffic Signal Technician III	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Traffic Signal Technician II	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Public Works Supervisor	-	-	-	-	-	-	-	2.00
Senior Equipment Operator								1.00
Equipment Operator	3.00	3.00	3.00	3.00	3.00	3.00	3.00	2.00
Maintenance Associate	-	-	-	-	-	-	-	3.00
Signs & Markings Technician	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Senior Maintenance Associate	-	-	-	-	-	-	-	6.00
Attendant	-	-	-	-	-	-	-	3.00
Foreman	4.00	4.00	4.00	4.00	4.00	2.00	2.00	-
Inmate Services Coordinator	4.00	4.00	4.00	4.00	4.00	4.00	4.00	
Maintenance Worker	3.00	3.00	3.00	3.00	3.00	3.00	3.00	-
Laborer	5.00	5.00	5.00	5.00	5.00	5.00	5.00	-

PROPOSED DETAILED AUTHORIZED POSITION SCHEDULE
FISCAL YEAR 2016 - 2017 FINAL BUDGET

	2013 Actual	2014 Adopted	2014 Actual	2015 Adopted	2015 Actual	2016 Adopted	2016 Estimated	2017 Adopted
Facilities Division (40)								
Superintendent	2.00	3.00	3.00	3.00	3.00	1.00	1.00	1.00
Public Works Supervisor	-	-	-	-	-	-	-	1.00
Senior Facilities Technician III	-	-	-	-	-	-	1.00	1.00
Senior Facilities Technician II	-	-	-	-	-	-	1.00	1.00
Senior Facilities Technician I	-	-	-	-	-	-	1.00	1.00
Foreman	-	-	-	-	-	1.00	1.00	
Senior Facilities Technician	1.00	1.00	1.00	1.00	1.00	1.00	-	-
Facilities Technician	1.00	1.00	1.00	1.00	1.00	2.00	-	-
Total Public Works Department	**39.00**	**38.00**	**38.00**	**38.00**	**37.00**	**38.00**	**38.00**	**36.00**
Capital Improvement Program								
Assistant Public Works Director	1.00	-	-	-	-	-	-	-
Construction Division Manager	1.00	-	-	-	-	-	-	-
Engineering Division Manager	1.00	-	-	-	-	-	-	-
Construction Manager	2.00	-	-	-	-	-	-	-
Construction Inspector	2.00	-	-	-	-	-	-	-
Right of Way Inspector	1.00	-	-	-	-	-	-	-
Acceptance Inspector	1.00	-	-	-	-	-	-	-
Project Control Specialist	1.00	-	-	-	-	-	-	-
Engineering Technician	-	-	-	-	-	-	-	-
Capital Improvement Project (CIP) Manager	1.00	-	-	-	-	-	-	-
Project Coordinator	1.00	-	-	-	-	-	-	-
Total Capital Improvement Program	**12.00**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Parks - Administration								
Parks and Recreation Director	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parks and Recreation Deputy Director	-	-	-	-	-	-	-	1.00
Executive Assistant	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Assets Coordinator	-	-	1.00	1.00	1.00	1.00	1.00	1.00
Parks and Recreation Services Clerk	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75
Assistant Parks and Recreation Director	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-
Special Events Coordinator	-	-	-	1.00	-	-	-	-
Total - Parks Administration	**5.75**	**5.75**	**6.75**	**7.75**	**6.75**	**6.75**	**6.75**	**6.75**
Parks - Recreation (20)								
Business Services Coordinator	-	-	-	-	-	-	1.00	1.00
Recreation Coordinator	5.00	5.00	4.00	4.00	4.00	4.00	3.00	3.00
Recreation Programmer	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Recreation Assistant	0.75	0.75	0.75	0.75	0.75	0.75	0.75	1.00
Total Parks - Recreation	**7.75**	**7.75**	**6.75**	**6.75**	**6.75**	**6.75**	**6.75**	**7.00**
Parks - Maintenance (30)								
Superintendent	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parks Maintenance Supervisor	1.00	1.00	2.00	2.00	2.00	2.00	2.00	2.00
Irrigation Control Specialist	-		-	-	-	1.00	1.00	1.00
Senior Maintenance Associate	-	-	-	-	-	-	-	12.00
Attendant	-	-	-	-	-	-	-	10.00
Senior Maintenance Worker	9.00	9.00	9.00	10.00	10.00	11.00	11.00	-
Laborer	6.00	6.00	6.00	7.00	7.00	8.00	8.00	-
Foreman	1.00	1.00	-	-	-	-	-	-
Total Parks - Maintenance	**18.00**	**18.00**	**18.00**	**20.00**	**20.00**	**23.00**	**23.00**	**26.00**
Parks - Senior Programs (40)								
Recreation Programmer	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Recreation Assistant	0.75	0.75	0.75	1.00	1.00	1.00	1.00	1.00
Total - Parks Senior Programs	**1.75**	**1.75**	**1.75**	**2.00**	**2.00**	**2.00**	**2.00**	**2.00**
Total Parks Department	**33.25**	**33.25**	**33.25**	**36.50**	**35.50**	**38.50**	**38.50**	**41.75**

PROPOSED DETAILED AUTHORIZED POSITION SCHEDULE
FISCAL YEAR 2016 - 2017 FINAL BUDGET

	2013 Actual	2014 Adopted	2014 Actual	2015 Adopted	2015 Actual	2016 Adopted	2016 Estimated	2017 Adopted
Water Department								
Water Director	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Water Deputy Director	-	-	-	-	-	-	-	1.00
Water Business Services Coordinator					1.00	1.00	1.00	1.00
Superintendent	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Water Distribution Supervisor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Water Production Supervisor	-	-	-	1.00	1.00	1.00	1.00	1.00
Water Resource Coordinator	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Water Quality Inspector	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Construction Inspector	-	-	-	1.00	1.00	1.00	1.00	1.00
Electric Pump & Well Technician	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Water Mechanic	-	-	-	1.00	1.00	1.00	1.00	1.00
Water Operator II	5.00	5.00	5.00	5.00	5.00	6.00	6.00	6.00
Water Operator I	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Civil Engineer	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Water Billing Specialist	2.10	2.10	3.00	3.00	3.00	3.00	2.00	2.00
Water Technology Coordinator	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Water Executive Assistant	-	-	-	-	-	-	1.00	1.00
Assistant Director of Utilities						1.00	1.00	-
Water Operations Manager	1.00	1.00	1.00	1.00	1.00	-	-	-
Utilities Services Supervisor	1.00	1.00	1.00	1.00	-	-	-	-
Customer Service Specialist	-	-	-	-	-	-	-	-
Utilities Customer Service Clerk	1.00	1.00	-	-	-	-	-	-
Total Water Department	**18.10**	**19.10**	**19.00**	**22.00**	**22.00**	**23.00**	**23.00**	**23.00**
Waste Water Department								
Water Reclamation Operations Manager	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Chief Water Reclamation Operator					1.00	1.00	1.00	1.00
Water Reclamation Operator II	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Water Reclamation Operator I	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Water Reclamation Supervisor	-	-	1.00	1.00				
Principal Wastewater Plant Operator	1.00	1.00	-	-	-	-	-	-
Total Waste Water Department	**3.00**	**4.00**	**4.00**	**4.00**	**4.00**	**4.00**	**4.00**	**4.00**
Airport Operations								
Airport Director						1.00	1.00	1.00
Airport Operations Coordinator	-		-	-	1.00	1.00	1.00	1.00
Airport Maintenance Associate	-	-	-	-	-	-	-	1.00
Airport Maintenance Worker	-	-	-	-	-	1.00	1.00	-
Airport Manager	1.00	1.00	1.00	1.00	1.00	-	-	-
	-	-	-	-	-	-	-	-
Total Airport Operations	**1.00**	**1.00**	**1.00**	**1.00**	**2.00**	**3.00**	**3.00**	**3.00**
TOTAL TOWN AUTHORIZED POSITIONS	**313.33**	**319.33**	**319.08**	**328.33**	**328.33**	**338.73**	**338.73**	**346.63**

Salary Schedules Fiscal Year 2016-2017

Classified Positions

Exempt Positions					
Job Code	Job Title	FLSA** Status	Minimum	Midpoint	Maximum
GRADE 108 (11/1/2016 Fair Labor Standard Act salary regulations requires a move to Grade 109)			$44,159.78	$55,199.46	$66,240.19 Annual
208	Human Resources Analyst	Exempt			
476	Recreation Coordinator	Exempt			
210	Senior Accountant	Exempt			
440	Special Events Coordinator	Exempt			
GRADE 109			$48,134.11	$60,168.41	$72,201.68 Annual
655	Assets Systems Administrator	Exempt			
439	Executive Assistant to the Town Manager	Exempt			
252	Geographic Information Systems (GIS) Analyst	Exempt			
840	Graphic Designer	Exempt			
276	Management Assistant	Exempt			
212	Management & Budget Analyst	Exempt			
752	Parks Maintenance Supervisor	Exempt			
712	Public Works Supervisor	Exempt			
246	Senior Planner	Exempt			
322	Real Property Acquisition Agent	Exempt			
GRADE 110			$52,948.04	$66,185.05	$79,422.06 Annual
473	Business Services Coordinator	Exempt			
719	Chief Water Reclamation Operator	Exempt			
330	Database Administrator	Exempt			
341	Network Administrator	Exempt			
268	Technology Analyst	Exempt			
211	Procurement Officer	Exempt			

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Job Code	Job Title	FLSA** Status	Minimum	Midpoint	Maximum
236	Project Control Specialist	Exempt			
325	Safety & Emergency Management Coordinator	Exempt			
206	Senior Human Resources Analyst	Exempt			
468	Water Technology Coordinator	Exempt			
722	Water Distribution Supervisor	Exempt			
723	Water Production Supervisor	Exempt			
GRADE 111			$58,772.20	$73,464.72	$88,158.29 Annual
176	Chief Building Inspector	Exempt			
523	Code Enforcement Official	Exempt			
814	Crime Scene Property & Evidence Supervisor	Exempt			
163	Environmental Project Manager	Exempt			
258	Senior GIS Analyst	Exempt			
340	Senior Network Administrator	Exempt			
502	Superintendent	Exempt			
201	Tourism & Marketing Manager	Exempt			
400	Deputy Town Clerk	Exempt			
483	Water Business Services Coordinator	Exempt			
481	Water Resources Coordinator	Exempt			
321	Website Administrator	Exempt			
GRADE 112			$65,825.07	$82,281.07	$98,737.08 Annual
261	Assistant Town Attorney	Exempt			
230	Civil Engineer	Exempt			
238	Construction Manager	Exempt			
274	Finance Manager	Exempt			
244	Principal Planner	Exempt			
161	Project Manager	Exempt			
240	Technology Manager	Exempt			
GRADE 113			$74,382.36	$92,977.43	$111,572.50 Annual
151	CIP Engineering Division Manager	Exempt			
170	Court Administrator	Exempt			
147	Development Engineering Division Manager	Exempt			
174	Traffic Division Manager	Exempt			

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Job Code	Job Title	FLSA** Status	Minimum	Midpoint	Maximum
265	Traffic Operations Engineering Manager	Exempt			
153	Water Reclamation Operations Manager	Exempt			
GRADE 114			$84,051.84	$105,064.79	$126,077.75 Annual
157	Engineering Deputy Director	Exempt			
250	Human Resources Deputy Director	Exempt			
155	Parks & Recreation Deputy Director	Exempt			
148	Water Deputy Director	Exempt			
262	Senior Assistant Town Attorney	Exempt			
GRADE 115			$94,978.12	$118,723.17	$142,467.17 Annual
154	Deputy Town Attorney	Exempt			

Non-Exempt Positions					
Job Code	Job Title	FLSA** Status	Minimum	Midpoint	Maximum
GRADE 205			$24,734.84	$30,299.62	$35,865.96 Annual
			$11.8917	$14.5671	$17.2432 Hourly
422	Office Support Assistant	Non-exempt			
822	Recreation Assistant	Non-exempt			
GRADE 206			$26,465.92	$32,420.96	$38,376.52 Annual
			$12.7240	$15.5870	$18.4502 Hourly
700	Attendant	Non-exempt			
GRADE 207			$28,318.68	$34,690.24	$41,062.58 Annual
			$13.6148	$16.6780	$19.7416 Hourly
417	Accounting Clerk	Non-exempt			
436	Customer Service Clerk	Non-exempt			
GRADE 208			$30,300.66	$37,118.64	$43,936.36 Annual
			$14.5676	$17.8455	$21.1233 Hourly
406	Administrative Assistant	Non-exempt			
456	Court Clerk	Non-exempt			
425	Legal Document Clerk	Non-exempt			
600	Maintenance Associate	Non-exempt			
423	Records Clerk	Non-exempt			
825	Parks and Recreation Services Clerk	Non-exempt			
430	Permit Clerk	Non-exempt			
444	Police Records Clerk	Non-exempt			
680	Customer Service Representative	Non-exempt			

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Job Code	Job Title	FLSA** Status	Minimum	Midpoint	Maximum
GRADE 209			$32,422.00	$39,717.34	$47,012.68 Annual
			$15.5875	$19.0949	$22.6023 Hourly
812	Court Security Guard	Non-exempt			
748	Facilities Technician I	Non-exempt			
418	Senior Accounting Clerk	Non-exempt			
442	Water Billing Specialist	Non-exempt			
GRADE 210			$34,691.80	$42,497.26	$50,303.24 Annual
			$16.6788	$20.4314	$24.1843 Hourly
660	Assets Coordinator	Non-exempt			
450	Court Collections Specialist	Non-exempt			
620	Courtroom Specialist	Non-exempt			
434	Development Coordinator	Non-exempt			
336	Engineering Aide	Non-exempt			
749	Facilities Technician II	Non-exempt			
458	Project Coordinator	Non-exempt			
547	Project Coordinator-CIP	Non-exempt			
445	Police Records Specialist	Non-exempt			
604	Senior Maintenance Associate	Non-exempt			
GRADE 211			$37,120.46	$45,471.92	$53,823.90 Annual
			$17.8464	$21.8615	$25.8769 Hourly
453	Court Operations Specialist	Non-exempt			
242	Court Probation Monitor	Non-exempt			
621	Senior Courtroom Specialist	Non-exempt			
810	Crime Scene Specialist	Non-exempt			
448	Dispatcher	Non-exempt			`
741	Equipment Operator	Non-exempt			
438	Executive Assistant	Non-exempt			
508	Fleet Technician II	Non-exempt			
744	Irrigation Control Technician	Non-exempt			
466	Recreation Programmer	Non-exempt			
750	Facilities Technician III	Non-exempt			
704	Signs and Markings Technician	Non-exempt			
GRADE 212			$40,089.66	$49,110.10	$58,130.28 Annual
			$19.2739	$23.6106	$27.9473 Hourly
209	Accountant	Non-exempt			
461	Community Development Coordinator	Non-exempt			
616	Equipment Mechanic	Non-exempt			

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Job Code	Job Title	FLSA** Status	Minimum	Midpoint	Maximum
426	Legal Assistant	Non-exempt			
743	Senior Equipment Operator	Non-exempt			
309	Technology Support Specialist I	Non-exempt			
736	Water Operator I	Non-exempt			
GRADE 213			$43,297.54	$53,038.70	$62,780.90 Annual
			$20.8161	$25.4994	$30.1831 Hourly
539	Airport Operations Coordinator	Non-exempt			
518	Building Inspector I	Non-exempt			
315	Business Process Analyst	Non-exempt			
522	Code Enforcement Officer	Non-exempt			
525	Construction Inspector	Non-exempt			
248	Crime Analyst	Non-exempt			
534	Electric Pump and Well Technician	Non-exempt			
514	Housing Rehabilitation Specialist	Non-exempt			
510	Lead Fleet Technician	Non-exempt			
520	Planner	Non-exempt			
302	Plans Examiner	Non-exempt			
526	Right of Way Inspector	Non-exempt			
632	Senior Executive Assistant	Non-exempt			
372	Traffic Signal Technician II	Non-exempt			
532	Water Quality Inspector	Non-exempt			
728	Water Reclamation Facility Mechanic	Non-exempt			
730	Water Reclamation Operator I	Non-exempt			
737	Water Operator II	Non-exempt			
GRADE 214			$47,193.64	$57,812.04	$68,431.22 Annual
			$22.6893	$27.7943	$32.8996 Hourly
516	Building Inspector II	Non-exempt			
540	Community Response Manager	Non-exempt			
215	Procurement Agent	Non-exempt			
560	Engineering Specialist	Non-exempt			
214	Payroll Administrator	Non-exempt			
470	Police Records Supervisor	Non-exempt			
464	Police Telecommunications Supervisor	Non-exempt			
313	Technology Support Specialist II	Non-exempt			
731	Water Reclamation Operator II	Non-exempt			

Job Code	Job Title	FLSA** Status	Minimum	Midpoint	Maximum
GRADE 215			$51,913.16	$63,593.40	$75,274.16 Annual
			$24.9582	$30.5738	$36.1895 Hourly
519	Building Safety Coordinator	Non-exempt			
452	Court Supervisor	Non-exempt			
300	Senior Plans Examiner	Non-exempt			
373	Traffic Signal Technician III	Non-exempt			

Additional Pay (Applies only to Non Exempt Positions)			
	Shift Differential Pay	$0.90 per hour	*Pay for employees who work between 6:00 p.m. and 6:00 a.m.*
	On-Call/Stand-By Pay	$1.00 per hour	*Pay for employees who stand ready to work during non-work hours when assigned.*

***Fair Labor Standards Act*
Effective June 25, 2016

Classified Sworn Positions

Non-Exempt Positions

Job Code	Grade	Job Title	FLSA** Status			
807	POR	*Police Recruit	Non-Exempt	Flat Rate		
			Annual	$43,334.72		
			Hourly	$20.8340		
806	PO	Police Officer	Non-Exempt	Minimum	Midpoint	Maximum
			Annual	$48,149.66	$50,557.26	$53,085.50
			Hourly	$23.1489	$24.3064	$25.5219
802	SGT	Police Sergeant	Non-Exempt	Minimum	Midpoint	Maximum
			Annual	$69,541.42	$77,034.36	$84,527.30
			Hourly	$33.4334	$37.0358	$40.6381

Exempt Positions

800	LT	Police Lieutenant	Exempt	Minimum	Midpoint	Maximum
			Annual	$82,769.02	$96,843.55	$110,918.08
801	CAP	Police Captain	Exempt	Minimum	Midpoint	Maximum
			Annual	$91,045.40	$109,578.05	$128,110.69

Police Officer Special Assignments Pays

10% added to base pay	Detective
7.5% added to base pay	Lead Detective
5% added to base pay	Investigator
5% added to base pay	Lead Police Officer
5% added to base pay	Auto Theft Task Force
5% added to base pay	Counter Narcotics Alliance
5% added to base pay	DART
5% added to base pay	DEA Task Force
5% added to base pay	EOD (Explosives)
5% added to base pay	K9
5% added to base pay	Motorcycles
5% added to base pay	School Resource Officer (SRO)
5% added to base pay	SWAT
5% added to base pay	Volunteer Coordinator
One additional hour of pay per shift paid at time and one-half rate when serving as FTO	Field Training Officer
31	Approved Assignments

Additional Pay for Sworn Positions (Applies only to Non-Exempt Sworn)

Shift Differential	$0.90 per hour	*Pay for employees who work between 6:00 p.m. and 6:00 a.m.*
On-Call/Stand-By Pay	$1.00 per hour	*Pay for employees who stand ready to work during non-work hours as assigned.*

***Fair Labor Standards Act*
**Position is Non-Sworn*

Unclassified Positions

Exempt Positions

Job Code	Job Title	FLSA** Status	Minimum	Midpoint	Maximum	
Grade A			$65,825.07	$82,281.07	$98,737.08	Annual
141	Communications Manager	Exempt				
260	Assistant to the Town Manager	Exempt				
Grade D			$94,978.12	$118,723.17	$142,467.17	Annual
182	Deputy Chief of Police	Exempt				
Town Officers Grade I			$91,382.49	$116,513.36	$141,643.18	Annual
144	Airport Director	Exempt				
125	Building Safety Director	Exempt				
114	Community Development Director	Exempt				
115	*Director of Economic Development and Tourism	Exempt				
116	Human Resources Director	Exempt				
136	Parks and Recreation Director	Exempt				
126	Planning Director	Exempt				
180	Public Works Director	Exempt				
134	Technology Services Director	Exempt				
106	Town Clerk	Exempt				
146	Water Director	Exempt				
Town Officers Grade II			$109,175.41	$139,198.24	$169,221.06	Annual
112	Assistant Town Manager	Exempt				
110	Deputy Town Manager	Exempt				
118	Finance Director	Exempt				
138	Police Chief	Exempt				
120	Town Attorney	Exempt				
132	Town Engineer	Exempt				

* Per Marana Town Code Section 3-1-1, this position is not defined as a Town Officer, however, pay falls within the same grade as Town Officers Grade I

**Fair Labor Standards Act*

Temporary Positions

Job Code	Job Title	FLSA* Status	Minimum	Maximum	
480	Intern	Non-exempt	$8.05	$13.50	
169	Judge Pro Tempore	Exempt	$150.00 (half day session)	$300.00 (full day session)	Flat Rate
			*if less than half day session rate is $50 per hour		
826	Lifeguard	Non-exempt		$10.20	Flat Rate Hourly
828	Lifeguard WSI	Non-exempt	$10.71	$16.57	Hourly
271	Management Intern	Non-exempt		$13.50	Flat Rate Hourly
824	Recreation Aide	Non-exempt		$10.20	Flat Rate Hourly
831	Sports Official	Non-exempt		$10.20	Flat Rate Hourly

Additional Pay (Applies only to Non-Exempt position)		
Shift differential	$0.90 per hour	*Pay for employees who work between 6:00 p.m. and 6:00 a.m.*
On-Call/ Stand-by	$1.00 per hour	*Pay for employees who stand ready to work as assigned during non-work hours when assigned.*

Town of Marana
Fiscal Year 2017 Team Performance Pay Adjustment

The Fiscal Year 2017 budget includes a team performance pay adjustment. Team performance pay is based on performance and behavior that is aligned with the Town's strategic plan, policies, directives and cultural values (dedicated service, respect, teamwork and engaged innovation). This adjustment takes into consideration the Town's pay philosophy to maintain a competitive position in the market and to recognize and reward employees who push the organization toward excellence.

The Fiscal Year 2017 budget contains funding to grant eligible employees a team performance pay adjustment of up to 3.5% of base salary or, for those at the top of their pay range, a lump sum payment of up to 3.5% of base salary for those who exemplify our cultural values. This action will contribute towards accomplishing the Town's strategic goal for attracting and retaining quality professional staff who exemplify the commitment to service.

Eligibility

1. Regular full- and part-time classified, and unclassified employees hired on or before July 1, 2015 and not at the top of their pay range are eligible to receive the team performance pay adjustment if not otherwise disqualified by the criteria set forth below.
2. Regular full- and part-time classified, and unclassified employees hired on or after July 2, 2015 but before January 1, 2016 and not at the top of their pay range are eligible to receive a prorated team performance pay adjustment if not otherwise disqualified by the criteria set forth below.
3. Regular full- and part-time classified, and unclassified employees who are at the top of their pay range are eligible to receive a lump sum payment of up to 3.5% of base salary for team performance if not otherwise disqualified by the criteria set forth below. The lump sum payment will not be made by a separate check.
4. Regular full- and part-time classified, and unclassified employees who have received a written reprimand for an infraction or performance issue that occurred during Fiscal Year 2016 are eligible to receive 2.0% less pay, than they would have received otherwise based on the criteria herein. However, a department head has the option to seek approval from the Town Manager for a 6 month delayed pay adjustment regarding the withheld 2.0% if no further written reprimands or actions identified in section 6 below are issued to the employee during that 6 month period.
5. Employees hired on or after January 1, 2016 are not eligible to receive this team performance pay adjustment.
6. Employees who have been on Leave without Pay (LWOP) for more than 6 months, suspended, involuntarily demoted, have received more than 1 written reprimand, or a Work Improvement Plan (WIP) for infractions or performance issue that occurred during Fiscal Year 2016 are not eligible to receive this team performance pay adjustment. However, a department head has the option to seek approval from the Town Manager for a 6 month delayed pay adjustment regarding the withheld

adjustment if no further written reprimands or actions identified in this section are issued to the employee during that 6 month period.

7. Employees (i.e. Lifeguards, Sports Officials, Interns, etc.) paid from the salary schedule for temporary positions, term-limited temporary (TLT), and short-term temporary (STT) employees are not eligible to receive this team performance pay adjustment.
8. Contract employees (Town Manager and Town Magistrate) are not eligible to receive this increase.

Implementation

1. No adjustment to base pay shall cause an employee's salary to exceed the maximum of the grade for the employee's position.
2. Calculation of the increase will be based on an employee's regular base pay rate, exclusive of other types of compensation (i.e. special assignment pay, overtime pay, shift differential, etc.)

Pay Administration

1. Eligible employees will receive the increase or lump sum payment with the paycheck beginning July 29, 2016.
2. Compensation will be paid in accordance with the Town's bi-weekly regular payroll cycle.
3. Compensation will be subject to normal payroll taxes and other regular payroll deductions.
4. Compensation will be subject to pension contributions as provided by state law.
5. Federal and State withholding will be calculated based on the current exemptions on file.

TOWN OF MARANA 5 YEAR CAPITAL IMPROVEMENT PROGRAM

PROJECT NAME	2016 - 2017	2017 - 2018	2018 - 2019	2019 - 2020	2020 - 2021	Grand Total
Adonis Secondary Access		310,000	1,900,000			2,210,000
Aerie Drive Pavement Restoration	35,000	800,000				835,000
Airport Control Tower			300,000			300,000
Airport Drainage Improvements		150,000	1,500,000			1,650,000
Airport Master Plan Update	164,543					164,543
Airport Safety Lighting & Signage	547,745					547,745
Airport Terminal		300,000		700,000	7,000,000	8,000,000
Avra Valley Rd Pavement Reconstruct			3,294,400			3,294,400
Camino Martin / Jeremy Place Restor	481,319					481,319
Cap Canal Trailhead Improvements	103,902					103,902
Cap Subcontract - Nia Reallocation	133,000	133,000	133,000	133,000	133,000	665,000
Cmo De Oeste, Thornydale, Widening		105,000	2,000,000			2,105,000
Coachline Blvd, Reconstruction	120,000	1,955,000				2,075,000
Constructed Recharge For Effluent	1,200,000	1,207,500	563,640			2,971,140
Continental Ranch 16, Reconstuct				1,132,500		1,132,500
Continental Ranch 17, Reconstuct					897,500	897,500
Continental Reserve 24-Inch Tie-In	200,000	1,450,000				1,650,000
Cracker Barrel Road Restoration	749,857					749,857
Crossroads Park Play Area Addition	100,000					100,000
El Rio Open Space Area Master Plan	182,200	217,800				400,000
Fire Protection Water Line					1,515,000	1,515,000
Gladden Farms Rd, Reconstruction			50,000	1,300,000		1,350,000
I-10 At Marana Rd, Landscaping		280,000				280,000
I-10 At Twin Peaks Rd, Landscaping		415,000				415,000
Ina Rd Bridge	8,641,259					8,641,259
Ina Rd Pavement Reconstruction	107,000	2,283,430				2,390,430
Ina Rd, Rt Turnbay To Oldfather Rd					448,000	448,000
Land Acquisition For Approaches			300,000		5,100,000	5,400,000
Marana Park Reservoir					1,188,000	1,188,000
Marana Park Well		67,500	540,000			607,500
Marana Public Safety Facility	10,092,271	11,858,965				21,951,236
Marana Road Realignment	1,558,935					1,558,935
Marana Water Reclaim 1.5Mgd Expand	7,350,000	13,850,000				21,200,000

TOWN OF MARANA 5 YEAR CAPITAL IMPROVEMENT PROGRAM

PROJECT NAME	2016 - 2017	2017 - 2018	2018 - 2019	2019 - 2020	2020 - 2021	Grand Total
Ora Mae Harn Park Ball Field Imprv	388,000					388,000
Ora Mae Harn Park Parking Reconstrc	161,565					161,565
Patton Rd, At Grade RR Crossing	800,000					800,000
Picture Rocks Interconnect	815,000					815,000
Pines 1, Road Stabilization Fy2016	22,377					22,377
Rehab Transnt, Td, Heli, Termnl Apr	750,000	7,000,000				7,750,000
Rehabilitate Taxiway C		200,000	100,000	850,000		1,150,000
Runway 12-30, Taxiway A, Extend E		425,000		350,000	5,500,000	6,275,000
Runway 3-21 And Taxiway B Extension				300,000		300,000
Runway Papi Replacements		130,000				130,000
Runway-Taxiway Led Lighting Upgrade		900,000				900,000
Sanders Rd 24-Inch Water Line					2,060,000	2,060,000
Santa Cruz Shared Iii (2009-16)	1,258,520					1,258,520
Santa Cruz Sup At Calportland	90,000	634,000				724,000
Santa Cruz Sup El Rio To Avra Val	1,189,765					1,189,765
Scada And Integrated Telemetry	1,043,000	671,000	911,000	689,000	474,000	3,788,000
Sewer Conveyance System Rehab	275,000					275,000
Silverbell Rd Sidewalk, Tp To Coach			20,000	290,000		310,000
Soccer Field, North Marana			180,000	2,820,000		3,000,000
Tangerine Cooridor Community Park	3,072,677					3,072,677
Tangerine Rd Cooridor, I10 To Town	47,639,563	5,465,000				53,104,563
Tangerine W, X-Zone Booster & Prv	50,000	50,000	900,000			1,000,000
Tangerine X-Zone 16" Water Main	420,750					420,750
Tangerine X-Zone Resrvr/Boost Upgrd	81,882					81,882
Tangerine/Downtwn Sewer Convey Sys	3,375,000					3,375,000
Twin Peaks Well	300,000					300,000
Update To Far Part 150 Noise Study					300,000	300,000
W+Zone I-10 16", Sanlucas Intrcnnct	629,000					629,000
Grand Total	**94,129,129**	**50,858,195**	**12,692,040**	**8,564,500**	**24,615,500**	**190,859,364**

Council-Regular Meeting **A2**

Meeting Date: 06/21/2016

To: Mayor and Council

From: Erik Montague, Finance Director

Date: June 21, 2016

Strategic Plan Focus Area:
Commerce, Community, Heritage, Recreation, Progress & Innovation

Strategic Plan Focus Area Additional Info:
The ability to set the Town's expenditure limitation at the local level under the Home Rule Option is critical in providing essential services described in all sections of the Town's Strategic Plan.

Subject: PUBLIC HEARING: Relating to Alternative Expenditure Limitation (Home Rule Option); public hearing pursuant to A.R.S. section 41-563.01 regarding the proposed extension of the alternative expenditure limitation for the Town of Marana (Erik Montague)

Discussion:

The Arizona Constitution and Arizona Revised Statutes impose an annual expenditure limitation on Arizona cities and towns. Article IX of the Arizona Constitution also allows for a city or town to adopt a local alternative expenditure limitation, or Home Rule Option, with the approval of the majority of the qualified voters of the city or town. The Home Rule Option allows the community to determine what its spending limits will be at the local level rather than the formula-based limit imposed by the State of Arizona. Under the Home Rule Option, if approved, total expenditures for the city or town are determined at the time of budget adoption and may exceed those imposed by the State of Arizona. The Home Rule Option is in effect for four consecutive years once it is approved.

In 1985, and every four years thereafter, the residents of the Town of Marana voted to adopt the Home Rule Option. The current Home Rule Option was passed on May 21, 2013 and is in effect through fiscal year 2016-2017. Traditionally, this item has been sent to the voters in a spring candidate election cycle. However, consolidated elections law now requires that this item be considered at the same time as candidate elections which will occur this calendar year.

Without the Home Rule Option, Town expenditures may not exceed those set forth in the State Constitution. The State's limitation is determined by an expenditure base that was established in 1979-80, adjusted for inflation and population growth over the years.

For example, the estimated State-imposed limitation, including estimated constitutionally excludable expenditures, for fiscal year 2017-2018 is $54,083,555, while the Town's estimated expenditure limitation under the Home Rule Option, based upon estimated revenues, is $118,118,409. That represents an estimated $64,034,854 reduction in estimated expenditures.

The following table represents estimated revenues, expenditures and the difference between the State's imposed limitation.

Fiscal year	Town Estimated Revenue	Town Estimated Expenditures	Projected State-Imposed Expenditure Limitation (Including Estimated Exclusions)	Difference Between Town-Estimated Expenditures and State-Imposed Limitation
2017-2018	$118,118,409	$118,118,409	$54,083,555	$64,034,854
2018-2019	81,101,846	81,101,846	48,300,282	32,801,564
2019-2020	78,234,286	78,234,286	48,707,896	29,526,390
2020-2021	95,496,118	95,496,118	52,756,729	42,739,389

The table above clearly illustrates the importance of the Home Rule Option. This is especially true for faster growing communities like Marana. Without the Home Rule Option, the Town would be mandated to cut expenditures and services like street maintenance, public safety, community development, and parks and recreation programs to comply with the State imposed limitation despite receiving revenues well in excess of the limitation. The worksheets attached to this item provide a more detailed analysis of the aforementioned calculations.

With approval of the Council, residents of the Town will be asked to vote on the Home Rule Option on the November 8, 2016 General Election ballot. If the ballot measure passes, the Home Rule Option will take effect for fiscal years 2017-18 through 2020-2021.

Prior to scheduling an election for the Home Rule Option, the Council must conduct at least two public hearings. All required notices of public hearings were properly posted in accordance with State Statute. This is the first of two public hearings on the Alternative Expenditure Limitation. The second public hearing will be held on June 28, 2016, after which the Council may consider the adoption of a resolution authorizing the Home Rule Option to be submitted to the voters of the Town of Marana.

Financial Impact:

The Home Rule Option allows the community to set the expenditure limit at the local level based upon existing resources. Without the Home Rule Option, the Town would be mandated to cut expenditures and services like street maintenance, public safety, community development, and parks and recreation programs to comply with the State imposed limitation. Revenues received in excess of the State imposed limit could not be spent on essential services.

Staff Recommendation:

Public Hearing only.

Suggested Motion:

Public Hearing only.

Attachments

Home Rule - Draft Summary and Detailed Analysis

ALTERNATIVE EXPENDITURE LIMITATION

(Home Rule Option)

SUMMARY ANALYSIS

The voters of the Town of Marana on May 21, 2013 adopted an alternative expenditure limitation (Home Rule Option). The purpose of this election is for the continued use of the Home Rule Option.

Pursuant to the Arizona State Constitution, the Town of Marana seeks voter approval to adopt a Home Rule Option to apply to the town for the next four years beginning in 2017-2018. Under a Home Rule Option if approved by the voters, the town estimates it will be allowed to expend approximately $118,118,409 in 2017-2018, $81,101,846 in 2018-2019, $78,234,286 in 2019-2020 and $95,496,118 in 2020-2021.

With approval of the Home Rule Option, the town will utilize the expenditure authority for all local budgetary purposes including general government, public safety, highways and streets, economic and community development, culture and recreation, water utility, wastewater utility, airport, debt service and capital improvement projects.

Under the state-imposed limitation the town estimates it will be allowed to expend approximately $54,083,555 in 2017-2018, $48,300,282 in 2018-2019, $48,707,896 in 2019-2020 and $52,756,729 in 2020-2021 for the operation of your local government. These expenditure estimates include expenditures of constitutionally excludable revenues.

The amount of revenue estimated to be available to fund the operation of your town government is $118,118,409 in 2017-2018, $81,101,846 in 2018-2019, $78,234,286 in 2019-2020 and $95,496,118 in 2020-2021. These revenue estimates are the same under the Home Rule Option or the state-imposed expenditure limitation. (The town property tax shall be limited to the amount prescribed in the Arizona State Constitution.)

Any and all dollar figures presented in this summary are estimates only and are based upon information available at the time of preparation of this analysis. The budget and actual expenditures in any of the four years may be more or less than the expenditures noted above depending on available revenue.

If no alternative expenditure limitation is approved, the state-imposed expenditure limitation will apply to the town.

ALTERNATIVE EXPENDITURE LIMITATION
(Home Rule Option)
SUMMARY ANALYSIS WORKSHEET

POPULATION FACTOR COMPUTATION

Fiscal Year	Prior Fiscal Year Population	/	1978 Population	=	Population Factor
2017-2018	44,600	/	1,425	=	31.2982
2018-2019	46,300	/	1,425	=	32.4912
2019-2020	47,900	/	1,425	=	33.6140
2020-2021	49,600	/	1,425	=	34.8070

STATE-IMPOSED EXPENDITURE LIMITATION

Fiscal Year	1979-80 Base Limit	x	Population Factor	x	Inflation Factor	=	Projected State-Imposed Expenditure Limitation	+	Estimated Exclusions	=	Total Expenditures Under State-Imposed Limit
2017-2018	$ 202,239	x	31.2982	x	2.9160	=	$ 18,457,454	+	$ 35,626,101	=	$ 54,083,555
2018-2019	202,239	x	32.4912	x	2.9743	=	19,544,089	+	28,756,193	=	48,300,282
2019-2020	202,239	x	33.6140	x	3.0442	=	20,694,660	+	28,013,236	=	48,707,896
2020-2021	$ 202,239	x	34.8070	x	3.1046	=	$ 21,854,313	+	$ 30,902,416	=	$ 52,756,729

ALTERNATIVE EXPENDITURE LIMITATION
(Home Rule Option)
DETAILED ANALYSIS

Pursuant to the Arizona State Constitution, the Town of Marana as authorized by Resolution No. 2016-___ passed on _____, 20___ will seek voter approval to adopt an alternative expenditure limitation (Home Rule Option) to apply to the Town for the next four years beginning in 2017-2018.

Under a Home Rule Option if approved by the voters, the town estimates it will be allowed to expend approximately $118,118,409 in 2017-2018, $81,101,846 in 2018-2019, $78,234,286 in 2019-2020 and $95,496,118 in 2020-2021.

With approval of the Home Rule Option, the town will utilize the expenditure authority for all local budgetary purposes including general government, public safety, highways and streets, economic and community development, culture and recreation, water utility, wastewater utility, airport, debt service and capital improvement projects. We estimate that the expenditures for the next four years under the Home Rule Option will be as follows:

ESTIMATED AMOUNTS TO BE EXPENDED IN SPECIFIC AREAS

Purpose	2017-2018	2018-2019	2019-2020	2020-2021
General Government	$ 22,542,021	$ 23,076,280	$ 23,650,492	$ 24,203,334
Public Safety	13,616,507	13,939,226	14,286,079	14,620,023
Highways and Streets	6,005,146	6,147,471	6,300,440	6,447,716
Economic and Community Development	6,044,690	6,187,953	6,341,929	6,490,175
Culture and Recreation	3,789,906	3,879,729	3,976,269	4,069,216
Water Utility	4,899,791	5,015,919	5,140,731	5,260,898
Wastewater Utility	1,198,979	1,227,396	1,257,938	1,287,343
Airport	481,341	492,749	505,010	516,815
Debt Service	8,681,833	8,443,083	8,210,898	7,985,098
Capital Improvement Projects	50,858,195	12,692,040	8,564,500	24,615,500
Total Expenditures	$118,118,409	$ 81,101,846	$ 78,234,286	$ 95,496,118

If approved, the expenditures authorized will be funded from revenues obtained from federal, state and local sources. It is estimated that the amount of revenue from each source for the next four years will be as follows:

ESTIMATED AMOUNTS OF REVENUE FROM EACH AND ANY SOURCE

Source	2017-2018	2018-2019	2019-2020	2020-2021
Federal	$ 5,307,203	$ 5,432,987	$ 5,439,263	$ 5,559,986
State	19,454,583	42,285,813	34,585,484	51,625,964
Local	93,356,623	33,383,046	38,209,539	38,310,168
Total Expenditures	$118,118,409	$ 81,101,846	$ 78,234,286	$ 95,496,118

(The town property tax shall be limited to the amount prescribed in the Arizona State Constitution).

In determining the revenue sources to fund the authorized additional expenditures under the alternative expenditure limitation, it is assumed that the federal, state and local revenues received by the town will continue to be available in 2017-2018 as they have for the past four years. Their continued availability is also assumed for the next three consecutive years following 2017-2018.

Any and all dollar figures shown in this analysis are estimated figures only and are based upon information available at the time of preparation of this report. The budgets and actual expenditures in any given year may be more or less than the figures noted above depending on available revenues. The actual expenditure limitation for each fiscal year shall be adopted as an integral part of the budget for that fiscal year.

Council-Regular Meeting **A3**

Meeting Date: 06/21/2016

To: Mayor and Council

From: Lisa Shafer, Community Development Director

Date: June 21, 2016

Strategic Plan Focus Area:
Community

Strategic Plan Focus Area Additional Info:
Principal Statement -- We will maintain and enhance our reputation as a safe and well-planned community.

Initiative: Leverage the Town's coordinating capability to facilitate enhanced customer interaction with multiple governmental and external agencies.

Subject: Ordinance No. 2016.007: Relating to Finance; exempting the Community Food Bank, Inc.'s Marana Community Food Bank expansion project from certain Town of Marana development and building fees (Lisa Shafer)

Discussion:

The Marana Community Food Bank (MCFB) has operated in the same 800-square-foot building almost continuously for more than 60 years. Due to the increase in demand for services, the MCFB struggles to meet the need seen every day. The current setup includes space for a 21-seat client lobby, client intake rooms that sorely lack privacy, and office space for six employees. As a solution to this very big problem, Cottonwood Properties has donated to the MCFB two 24' x 60' modular office buildings allowing them to expand their current operations.

The expansion would enable MCFB to provide more health, wellness, education and advocacy services to residents that they currently cannot. These two additional buildings would afford the food bank larger client waiting rooms to allow for enough space so that clients would not have to stand outside the building in the extremely hot or cold weather as well as larger client food distribution and consulting space. These buildings could also provide space for services not currently available; potentially including a diaper bank, child nutrition education classes, financial literacy courses, and increased client advocacy efforts.

Even though these buildings are being donated, there are substantial costs associated with moving and setting up the new offices. Just transporting and setting up the buildings on the property is anticipated to cost approximately $40,000. The Marana Food Bank has been actively searching out funding opportunities and has approached the Town in hopes that the Town could support this project by waiving all review, permitting and inspection fees contributed to our Development Services Departments. It is anticipated that these costs will combine to not exceed $5,000. Staff is requesting authorization from the Town Council to waive all internal Town fees that are associated with plan review, permitting or inspection.

Financial Impact:

Fiscal Year:	2017
Budgeted Y/N:	N
Amount:	$5,000

This request would authorize the waiving of up to $5,000 for review, permitting and inspection fees associated with the placing of two modular units for the Marana Food Bank.

Staff Recommendation:

Staff recommends approval of Ordinance No. 2016.007.

Suggested Motion:

I move to adopt Ordinance No. 2016.007, exempting the Community Food Bank, Inc.'s Marana Community Food Bank expansion project from certain Town of Marana development and building fees.

Attachments

Ordinance No. 2016.007

MARANA ORDINANCE NO. 2016.007

RELATING TO FINANCE; EXEMPTING THE COMMUNITY FOOD BANK, INC.'S MARANA COMMUNITY FOOD BANK EXPANSION PROJECT FROM CERTAIN TOWN OF MARANA DEVELOPMENT AND BUILDING FEES

WHEREAS the Town Council is authorized by A.R.S. § 9-240(A) to control the finances of the Town; and

WHEREAS the Town Council has adopted a comprehensive fee schedule for the Town which includes various fees that apply to development and building projects within the Town; and

WHEREAS the Town Council, via Ordinance No. 2011.015, adopted an amended building plan review and building permit fee schedule on June 21, 2011, which was made a public record by and attached as Exhibit A to Resolution No. 2011-065; and

WHEREAS the Community Food Bank, Inc. ("Food Bank") is a non-profit corporation providing Southern Arizona with a multitude of food-related programs and services including emergency food distribution, child hunger programs, home and community gardening, farmers' markets, and SNAP (food stamp) application; and

WHEREAS on February 19, 2013, the Town Council adopted Resolution No. 2013-014, formally recognizing and thanking the Food Bank for its past efforts at the Marana Heritage River Park and its continued work at the Marana Community Food Bank, and authorizing the Town Manager to provide the Town's support and assistance to the Food Bank; and

WHEREAS the Food Bank has acquired two 24' x 60' modular office buildings which the Food Bank intends to use to expand the current operations of the Marana Community Food Bank (the "expansion project"); and

WHEREAS the Town Council finds that exempting the Marana Community Food Bank expansion project from certain Town of Marana fees as set forth in this ordinance is in the best interests of the Town and its residents.

NOW, THEREFORE, BE IT ORDAINED BY THE MAYOR AND COUNCIL OF THE TOWN OF MARANA, as follows:

SECTION 1. Except as set forth otherwise herein, the Food Bank's Marana Community Food Bank expansion project is hereby exempted from any and all applicable Town of Marana fees included in the Town's comprehensive fee schedule as adopted by the Town Council and amended from time to time and from building plan review fees and building permit fees adopted

via Ordinance No. 2011.015 as they may be amended from time to time. Notwithstanding the waiver of these fees, the expansion project shall still be required to go through the Town's normal review and permitting process.

SECTION 2. The exemption set forth in section 1 of this ordinance shall not apply to the following:

A. Fees that are paid into or out of a Town enterprise fund, as those funds are defined in the Town's legally adopted budget.

B. Any and all development impact fees adopted by the Town.

SECTION 3. The various town officers and employees are authorized and directed to perform all acts necessary or desirable to give effect to this ordinance.

SECTION 4. All ordinances, resolutions, or motions and parts of ordinances, resolutions, or motions of the Council in conflict with the provisions of this ordinance are hereby repealed, effective as of the effective date of this ordinance.

SECTION 5. If any section, subsection, sentence, clause, phrase or portion of this ordinance is for any reason held to be invalid or unconstitutional by the decision of any court of competent jurisdiction, the decision shall not affect the validity of the remaining portions of this ordinance.

SECTION 6. This ordinance is administrative, and shall be effective immediately.

PASSED AND ADOPTED BY THE MAYOR AND COUNCIL OF THE TOWN OF MARANA, ARIZONA, this 21st day of June, 2016.

_____
Mayor Ed Honea

ATTEST:

_____
Jocelyn C. Bronson, Town Clerk

APPROVED AS TO FORM:

_____
Frank Cassidy, Town Attorney

Council-Regular Meeting **A4**

Meeting Date: 06/21/2016

To: Mayor and Council

From: Keith Brann, Town Engineer

Date: June 21, 2016

Strategic Plan Focus Area:
Commerce, Community, Progress & Innovation

Strategic Plan Focus Area Additional Info:
Commerce
1.1 Update the Land Development Code to enhance simplicity, understanding and ease of use
The subdivision street standards are a key companion document to the land development code
Community
1.6 Explore and research innovative community planning ideas for incorporation into processes, procedures, and codes
The subdivision street standards achieve these goals
Innovation
1.5 Research and develop policies that support choices for environmental design and energy efficient construction
The new subdivision street standards include a narrowed local street section, saving construction costs, maintenance costs, and reducing the heat island effect
2.1 Create and engage multi-disciplinary work teams to ensure that in-house and external projects incorporate best practices, effective communications, and serve multiple service delivery goals
2.2 Facilitate formal and informal two-way communication with employees and among and between departments to ensure better outcomes and avoid missed opportunities
The team assembled to revise the standards included engineering, public works, and planning. We additionally met with stakeholders that included SAHBA, MPA, developers, NWFD, and the consulting community.

Subject: Ordinance No. 2016.008: Relating to Development; adopting the 2016 Marana Subdivision Street Standards and the 2016 Marana Standard Details; and establishing an effective date (Keith Brann)

Resolution No. 2016-067: Relating to Development; declaring as a public record filed

with the Town Clerk the amendments adopted by Ordinance No. 2016.008, adopting the 2016 Marana Subdivision Street Standards and the 2016 Marana Standard Details (Keith Brann)

Discussion:

The Marana subdivision street standards were originally adopted by council in May of 2004. The section dealing with alternative access was updated in April of 2013. Town staff has been working internally for some time to update the entire street standards manual. A presentation of substantive changes was made to the council at its April 19th session. Staff has also met with the technical advisory committees of SAHBA and the MPA as well as holding an open technical comment session at Town hall. In general, most of the comments received have not caused significant changes to the draft text first sent to stakeholders in March of 2016. There have been further refinements by staff in a few areas. Final substantive changes will be discussed tonight.

Staff Recommendation:

Staff recommends adoption of Ordinance 2016.008 and Resolution 2016-067, adopting the 2016 Marana Subdivision Street Standards and Marana Standard Details and making them a public record.

Suggested Motion:

I move to adopt Ordinance 2016.008 and Resolution 2016-067, adopting the 2016 Marana Subdivision Street Standards and Marana Standard Details and making them a public record.

Attachments

Ordinance No. 2016.008
Resolution No. 2016-067
Rso Exh A Standards
Rso ExhB1 details cover
Rso ExhB2 details 100 series
Rso ExhB3 details 500 series
Rso ExhB4 details 600 series
Rso ExhB5 details 700 series
Substantive Changes
Comments
Redline old to new standards

MARANA ORDINANCE NO. 2016.008

RELATING TO DEVELOPMENT; ADOPTING THE 2016 MARANA SUBDIVISION STREET STANDARDS AND THE 2016 MARANA STANDARD DETAILS; AND ESTABLISHING AN EFFECTIVE DATE

WHEREAS the Marana subdivision street standards were originally adopted on May 4, 2004, by Marana Ordinance No. 2004.08; and

WHEREAS Section 4.14 ("Subdivision Access") of the 2004 subdivision street standards was amended by Marana Ordinance No. 2013.008 adopted April 16, 2013; and

WHEREAS Town staff has been working internally and with external stakeholders for some time to update the entire street standards manual and to create a set of Town standard details; and

WHEREAS the Mayor and Council of the Town of Marana find that the standard details and the revised subdivision street standards adopted by this ordinance are in the best interests of the Town of Marana and the general public.

NOW, THEREFORE, BE IT ORDAINED BY THE MAYOR AND COUNCIL OF THE TOWN OF MARANA, as follows:

SECTION 1. The 2016 Marana Subdivision Street Standards and the 2016 Marana Standard Details; three copies of each of which are on file in the office of the Town Clerk of the Town of Marana, Arizona; which were made a public record by and are attached as Exhibit A and Exhibit B, respectively, to Marana Resolution No. 2016-067; are hereby referred to, adopted and made a part of this ordinance as if fully set out here.

SECTION 2. The Town Engineer is authorized to make changes to the 2016 Marana Standard Details of a clarifying or clerical nature.

SECTION 3. The various Town officers and employees are authorized and directed to perform all acts necessary or desirable to give effect to this ordinance.

SECTION 4. All ordinances or parts of ordinances in conflict with the provisions of this ordinance are repealed as of the effective date of this ordinance.

SECTION 5. If any section, subsection, sentence, clause, phrase or portion of this ordinance is for any reason held to be invalid or unconstitutional by the decision of any court of competent jurisdiction, the decision shall not affect the validity of the remaining portions of this ordinance.

SECTION 6. All engineering plans in conflict with the 2016 Subdivision Street Standards Manual and 2016 Marana Standard Details that have not been approved as of the effective date

of this ordinance shall be revised to bring them into compliance with the 2016 Subdivision Street Standards Manual and 2016 Marana Standard Details.

SECTION 7. All engineering plans in conflict with the 2016 Subdivision Street Standards Manual and 2016 Marana Standard Details that have been approved on or before the effective date of this ordinance shall be exempt from this ordinance if construction of the improvements shown on the plans is begun no later than October 31, 2016, and is thereafter diligently pursued to completion. Otherwise, the plans shall be revised to bring them into compliance with the 2016 Subdivision Street Standards Manual and 2016 Marana Standard Details.

SECTION 8. This ordinance is effective on July 25, 2016.

PASSED AND ADOPTED BY THE MAYOR AND COUNCIL OF THE TOWN OF MARANA, ARIZONA, this 21st day of June, 2016.

Mayor Ed Honea

ATTEST:

Jocelyn C. Bronson, Town Clerk

APPROVED AS TO FORM:

Frank Cassidy, Town Attorney

MARANA RESOLUTION NO. 2016-067

RELATING TO DEVELOPMENT; DECLARING AS A PUBLIC RECORD FILED WITH THE TOWN CLERK THE AMENDMENTS ADOPTED BY ORDINANCE NO. 2016.008, ADOPTING THE 2016 MARANA SUBDIVISION STREET STANDARDS AND THE 2016 MARANA STANDARD DETAILS

BE IT RESOLVED BY THE MAYOR AND COUNCIL OF THE TOWN OF MARANA, ARIZONA, that the 2016 Marana Subdivision Street Standards, a copy of which is attached to and incorporated in this resolution as Exhibit A, and the 2016 Marana Standard Details, a copy of which is attached to and incorporated in this resolution as Exhibit B; and three copies of each of which are on file in the office of the Town Clerk, are hereby declared to be a public record and ordered to remain on file with the Town Clerk.

PASSED AND ADOPTED BY THE MAYOR AND COUNCIL OF THE TOWN OF MARANA, ARIZONA, this 21st day of June, 2016.

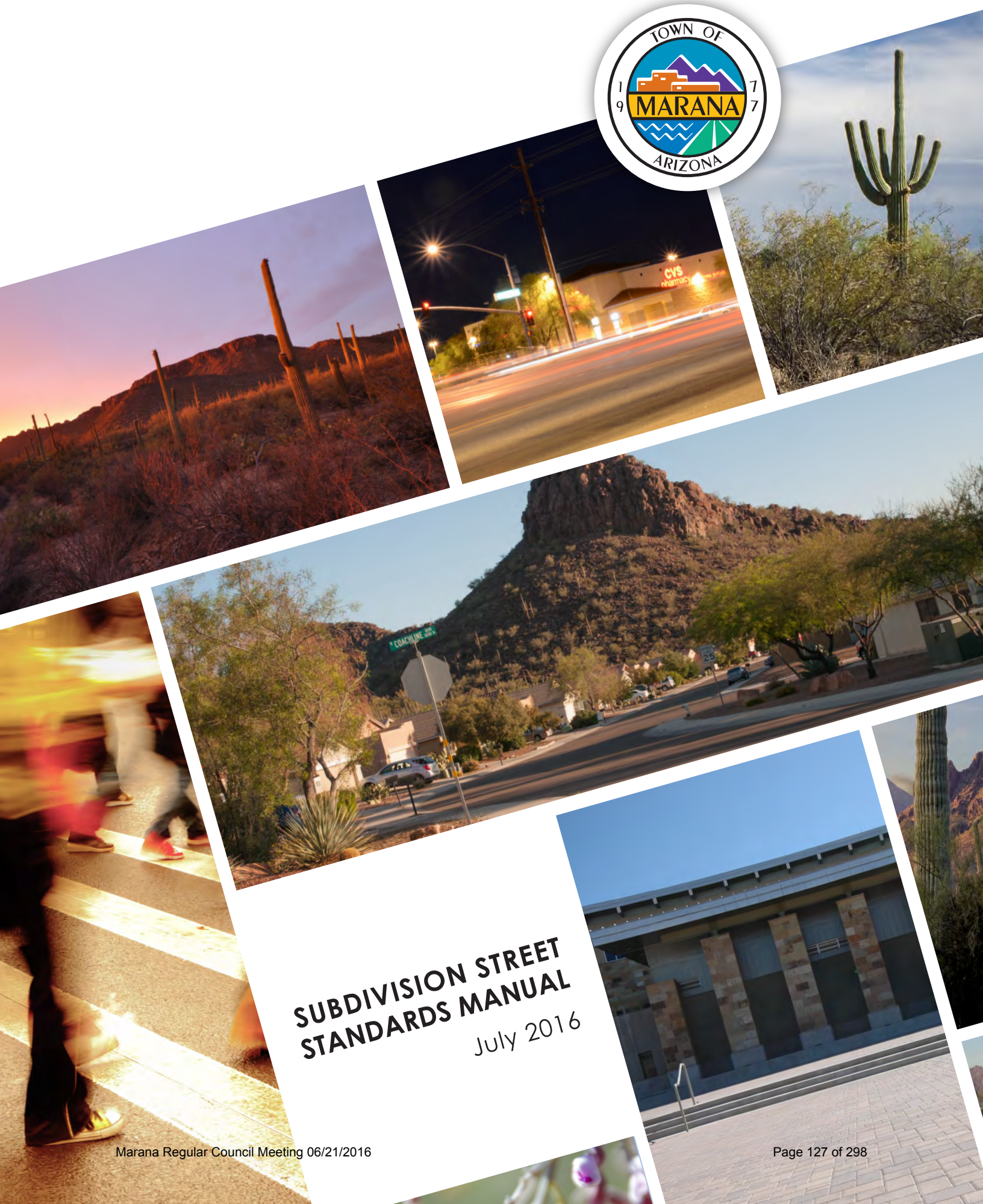
Mayor Ed Honea

ATTEST:

Jocelyn C. Bronson, Town Clerk

APPROVED AS TO FORM:

Frank Cassidy, Town Attorney



SUBDIVISION STREET STANDARDS MANUAL

July 2016



TOWN OF MARANA
11555 West Civic Center Drive
Marana, AZ 85653
(520) 382-1999 | maranaaz.gov

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1.0 INTRODUCTION & PURPOSE

1.1 Introduction

The majority of these standards were originally prepared by the Pima County Department of Transportation and Flood Control District (PCDOT & FCD). They were modified to address the specific conditions and needs of the Town of Marana, and were first adopted by Mayor and Council under Marana Ordinance 2004.08 in May of 2004. These standards, as presented in this manual, represent requirements for the preparation of subdivision plats, development plans, improvement plans and master planning documents. These standards apply equally to both public and private local roadways within all subdivisions and land development roadway construction or reconstruction within the Town of Marana, and are intended to be consistent with national standards and local policies and procedures. These standards are guidelines, which will be enforced as written; however, it is recognized that there are situations for which these standards may not be applicable. In these cases, and in cases of conflict or contradiction, sound engineering judgment consistent with accepted practice and approved in writing by the Town Engineer shall be used.

Those portions of these standards prepared by PCDOT & FCD ("Subdivision Street Standards", Oct. 1989) have been reproduced herein under permission by Pima County.

1.2 Purpose

These standards are intended to provide for the public health, safety and welfare of the traveling public. They are minimum standards for local streets which, if not met or exceeded, could create deficiencies resulting in a threat to public health, safety and welfare, as well as higher user costs and public losses. They have been adopted to reduce maintenance and liability costs borne by the residents of Marana.

In order to be responsive to the needs of roadway users within proposed and existing residential neighborhoods, these street development standards have been established to:

- Provide for streets of suitable location, width, and improvement to safely accommodate vehicular, cyclist, and pedestrian, traffic;
- Afford satisfactory access to emergency services, sanitation, school bus, street maintenance, and utility equipment;
- Coordinate street improvements, both public and private, so as to create a convenient system and avoid undue hardships to adjoining properties;
- Establish safe, effective, efficient, sustainable and attractive multi-modal transportation systems, which provide linkages and interconnectivity of developments;
- Provide adequate continuity, length, and width for walkways;
- Provide for visual and functional enhancement of streets and walkways through the use of natural and introduced landscapes;
- Encourage traffic management plans by private developers;
- Design streets to balance traffic between vehicular, cyclist, and pedestrian traffic; and

- Provide a street network design that includes enhanced safety and aesthetic characteristics and encourages curvilinear streets, streetscaping, and route continuity between neighborhoods.

1.3 Applicability

These standards are intended to apply to all residential subdivisions in the Town.

2.0 FUNCTIONAL CLASSIFICATION AND INCORPORATED REGULATIONS

2.1 Functional Classification

There are four broad functional classifications of streets as defined by the American Association of State Highway and Transportation Officials (AASHTO): local, collector, arterial, and freeway (limited access). This document is limited in concern to the design characteristics of local streets associated with subdivisions and developments, with particular attention to residential land development.

1. Local Streets: Local streets serve as access to residences, businesses or other abutting properties. Local streets are generally two-lane undivided roads with at-grade intersections and may have frequent driveway access. Local streets are intended and designed to provide access to abutting residential areas and carry this traffic to collector roadway systems. The design volume of these streets should be less than 1000 average trips per day (Average Daily Traffic (ADT)). Local streets must be designed for and posted with a minimum speed of 25 miles-per-hour (mph). Lower design speeds may be used for mountainous private roadways (see Chapter 4.12).

2. Commercial and Industrial Subdivision Streets: Commercial and industrial subdivision streets are to be designed in accordance with the above criteria, with special consideration of expected wheel loads, vehicle dimensions, and proposed use. Please refer to AASHTO's "*A Policy on the Geometric Design of Highways and Streets*" as well as the project's Traffic Impact Analysis for further design guidelines and data pertinent to these facilities.

3. Local Collectors: Local collectors are generally limited-access two-lane roadways that are striped with centerline and multi-use lanes. These streets are intended to serve as the main access point for a subdivision. The design speed for this type of street should be 35 MPH (to be posted at 30 MPH). The parking of vehicles and residential driveway access should be prohibited on these streets at all times.

It is recognized that there are specialized types of developments such as retail, office, industrial, mobile home parks, recreational, and cluster housing which vary widely in operational requirements. Design of these projects has been provided for as much as possible within this document.

2.2 Incorporated Regulations Adopted by Reference

This manual establishes engineering design practices for local roadway construction associated with land development within the Town of Marana. For items not covered herein, such as collector and arterial roadway designs, the engineer shall design in accordance with the latest Town of Marana Typical Roadway sections.

The following adopted standards, ordinances, or policies are also applicable and should be referred to by the design engineer as appropriate:

1. Marana Land Development Code;
2. Town of Marana Master Transportation Plan;
3. Town of Marana General Plan;
4. Adopted Area, Community, Neighborhood and Specific plans;
5. Conditions of zoning and rezoning;
6. Conditions of adopted Development Agreements;
7. Marana Standard Details; and
8. All reference materials as listed in Section 15-references

3.0 TRAFFIC STUDIES

Functional classification, roadway ADT, determination of number of lanes, design speed, required off-site improvements and design level of service shall be determined at the time of preliminary plat or development plan review, or master development plan preparation, as applicable (or rezoning if feasible) by the design engineer subject to approval by the Town of Marana. All projects that generate peak-hour trips of at least 100 vehicles are required to perform a Traffic Impact Study as a condition of development plan, preliminary plat, or rezoning. For developments producing less than 100 vehicular trips during the peak hour, the Traffic Engineering Manager will determine whether a Traffic Impact Study or Statement will be required. This study or statement must be signed and sealed by an engineer licensed to practice in the State of Arizona, and must include, at a minimum, peak-hour traffic generation figures. For the preparation of traffic impact study or statement, the guidelines contained within the Town of Marana's Procedures for Preparation of Transportation Impact Studies shall be followed.

1. For local streets, in the absence of more detailed information, ADT may be estimated from the number of units and the land use according to ITE's *Trip Generation Manual*.

2. The potential for cut-through traffic using neighborhood streets shall be addressed. Cut-through traffic is defined as traffic that uses a residential street (or a route consisting of more than one street) solely for the purpose of connecting between two major (arterial or collector) streets. If it is expected that the volume of cut-through traffic may be significant, consideration shall be given to the use of traffic calming measures on the potentially impacted street(s). See the section in Chapter 12.0, herein, on traffic calming devices.

The increase of proposed traffic through existing neighborhoods shall be addressed. In such cases, the new traffic forecasts are to be considered as "cut-through" traffic and the impacts on existing roadways examined. Appropriate traffic calming devices and techniques shall be identified and implemented upon approval of the Town Engineer.

3. Non-residential ADT may be estimated using ITE's *Trip Generation Handbook*.

4. Traffic demand forecasts must be made, including a summary of existing traffic plus approved, not-yet built development traffic, and proposed project traffic.

5. Any project proposal, which would degrade an existing roadway below a Level of Service (LOS) D, must mitigate to maintain a minimum LOS D.

6. A LOS of D or better shall be maintained on all off-site roadways and intersections that fall within the development's area of significant traffic impact (as designated by the Town and as depicted in the Traffic Impact Study prepared for the development). Improvements are required if the roadway segment or the intersection will operate below LOS D due to traffic generated by the development. Such improvements shall upgrade the LOS to D or better.

4.0 STREET LAYOUT & GEOMETRIC DESIGN

All subdivision and development related street designs shall conform to this document. Where not provided for herein, design engineers shall refer to those supplementary standards listed in Chapter 2.2.

4.1 Street Layout

1. All rights-of-way and street sections shall be designed and constructed to the full dimensions as shown in the Town of Marana Standard Details.

2. Where partial streets exist adjacent to the tract being developed, the remaining right-of-way must be dedicated and improvements must be made to the street as required by the Town Engineer.

3. Proposed developments shall provide for the continuation of Town of Marana Major Routes (as depicted in the circulation element of the Town's General Plan), existing arterials and collector street right(s)-of-way where appropriate.

4. The local street system shall be arranged to encourage traffic connectivity within the development and region. Circuitous through routings are to be encouraged.

5. Residential lots are not allowed to have direct access to collector and arterial streets.

    a. If frontage roads are used to provide access, they shall be designed such that improper intersections with streets do not occur. Frontage roads, by their nature,

intersect with entrance drives at close distances. However, they shall not intersect with new or existing streets at points less than that specified by Town Code (see off street parking requirements in the Marana Land Development Code).

b. Frontage roads shall have adequate turn-around areas for the design vehicle at roadway termini.

6. The proposed development shall provide streets in conformance with the Town of Marana Major Routes Plan (as depicted in the circulation element of the Town's General Plan), all existing specific plans, residential design guidelines, and other plans that are approved and adopted by the Town Council.

7. Stub streets required for future extension shall provide temporary turnaround areas at the stub end

8. If private streets are used as part of a development, entrances to gated, private streets shall include a turn-around area entirely contained between the ultimate public right-of-way and the proposed gate. The turn-around area shall be designed to accommodate a design vehicle of WB-40 or larger.

9. In order to maintain an 85^{th} percentile speed of 25-30 MPH, it is recommended that local street tangents be no longer than 500 feet between speed control points. A speed control point is defined as a break in continuity (such as a stop-controlled intersection), a properly designed horizontal curve, or a traffic calming device approved by the Town.

4.2 Cul-de-sacs

Permanent dead-end streets shall be designed with an adequate turnaround area at the roadway terminus. In accordance with Town standards, the turnaround area may not be required on dead-end streets less than 150 feet in length if services, such as fire, sanitation, school buses, maintenance equipment, delivery and repair vehicles, and postal service, can be provided without the use of the street. Cul-de-sac/dead-end length is measured from the curbline of the last street intersection to center point of turnaround. Turnarounds may be designed as cul-de-sacs, "T" or "Y" shaped configurations..

1. The cul-de-sac is preferred at all times for local street turnarounds because of its overall efficiency and maintainability, as well as for operational considerations pertaining to certain types of vehicles (e.g., fire trucks & school buses).

   The paved turnaround's geometry and right(s)-of-way shall conform to the standards set by the Town's Standard Details.

2. "T" and "Y" shaped turnarounds may be used for dead-end streets which have a projected ADT of 80 or less. Vertical curb is required in this type of turn-around area and driveways are not permitted.

3. Improvements to existing dead-end streets on abutting properties may be required during rezoning or subdivision platting. The purpose of these improvements is to allow proper through connection of future streets. Through connections may require the developer to remove abandoned cul-de-sac pavement on the abutting property, and that the full pavement section be carried to property line.

4. Where temporary turnarounds or cul-de-sacs are designed for a future extension to abutting properties, a note shall appear on the final plat listing the street name and indicating the temporary nature of the cul-de-sac condition.

5. Permanent dead-end streets longer than 1200 feet in length shall have turnarounds throughout the total length so the distance between turnarounds is no greater than 600 feet.

6. Cul-de-sacs may contain landscaping within a center area island if:

    a. Vertical curb is used around the entire center landscaped area;
    b. The radius of the landscaped center shall conform to the geometric layout as provided in the standard drawings;
    c. The cul-de-sac is large enough to allow passage of the design vehicle without wheel paths encountering the curb;
    d. The cul-de-sac is not proposed to be a future through street;
    e. The landscaping does not obstruct sight visibility;
    f. The Town of Marana shall not be responsible for maintaining cul-de-sac landscaping and a note to this effect shall be on the final plat. If landscaping is provided, the developer or homeowners association shall obtain a license agreement from the Town prior to the installation of landscaping. Landscaping irrigation runoff shall not be permitted to drain onto the roadway surface.
    g. The entire inside perimeter of the landscaped cul-de-sac shall be protected by a 36" deep root barrier.

4.3 Design Speed

The minimum design speed for local streets is 25 MPH. The minimum design speed for collector streets is 35 MPH. Higher design speeds may be warranted for certain roadways, and lower design speeds may be used for mountainous roadways per Chapter 4.12.

4.4 Design Vehicle

All local streets shall be designed for a WB-40 vehicle as defined by AASHTO or other design vehicle as approved by the Town Engineer.

Non-residential subdivision streets and parking area access lanes (PAAL) shall be designed for the largest vehicles (including service and delivery vehicles) anticipated to use the facilities, all in consultation with the Town Engineer. Delivery and service routes are to be clearly shown on

the development plan and/or preliminary plat, as applicable. A note shall be provided designating the design vehicle.

4.5 Horizontal Alignment

Minimum horizontal curve design criteria are shown in Table 1.

TABLE 1

Criteria	Local	Residential Collector
Design Speed (mph)	25	35
Minimum Center Line Radius (ft) (assumes 2% normal crown)	181	480
Minimum Horizontal Stopping Sight Distance (ft)	150	250

Consideration of driver expectancy and coordinated horizontal and vertical geometry shall occur in subdivision roadway design.

When two local road tangents are connected by a curve of less than the minimum radius, a "knuckle" or "eyebrow" intersection shall be constructed as shown in the Town of Marana Standard Details.

Compound and reverse curves are discouraged for local roads. Where this type of configuration is absolutely needed, it is recommended that tangents be placed between the curves. Tangents increase driver comfort, expectancy and safety. Where tangents are used, a minimum tangent length of 100 feet is required.

4.6 Vertical Alignment

Vertical alignment shall generally conform to the natural topography within the following limits:

TABLE 2

Criteria	Slope
Max. Gradient – Local Driveway	14 % (in R/W)
Max. Gradient – Local Streets	7 % Level, 11% Rolling Terrain
Max. Gradient – Collector Streets except Mountainous	8 %
Minimum Gradient	0.5%

In mountainous terrain (see Chapter 4.12), local street gradients may be up to 15 percent, upon approval by the Town Engineer.

1. Normal roadway cross slope shall be minimum two percent for crowned roadways and minimum one percent for non-crowned roadways.

2. Cross slope for drainage design may be up to four percent, at drainage crossings only.

3. Cul-de-sac cross-slopes shall not exceed eight percent.

4. Inverted crown streets are not acceptable for local streets. Inverted crowns may be used for Parking Area Access Lanes (PAALs) and alleys. Any inverted crown section with a longitudinal slope less than one percent requires a four foot wide concrete valley gutter, per Pima Association of Government standard details.

5. Minimum vertical (stopping) sight distance shall be in accordance with AASHTO's "*A Policy on Geometric Design of Highways and Streets*" guidelines, or 150 feet, whichever is more restrictive. For other design speeds and grade conditions, refer to AASHTO's "*A Policy on the Geometric Design of Highways and Streets*".

6. Landing areas are required for all stopped conditions. The maximum allowable grade for this landing area (on approaches to unsignalized intersections) is 3% (6% in mountainous terrain, see Chapter 4.12), and this grade must extend at least 20 feet in each direction from the outside edge of curb line of the intersecting street.

7. Vertical curves shall be required on local streets where the algebraic difference in grade exceeds one percent. When the algebraic difference is one percent or less, a grade break may be used. Use of the AASHTO vertical curve equation is preferred; however, a simplified method as shown below may be used. Using this method, the minimum lengths of vertical curves shall be determined by multiplying the algebraic difference in grades by the appropriate 'K' factor in Table 3:

Vertical Curve Criteria (for grades less than 10 percent)

TABLE 3

Design Speed	K Factor Crest Vert. Curve	K Factor Sag Vert. Curve	Minimum Length Curve
25	12	26	75
30	19	37	90
35	29	49	105

All vertical curves shall be symmetrical parabolic curves. The minimum length of a vertical curve in feet shall be three times the design speed in miles per hour.

When grades are greater than 10 percent, vertical curves shall be lengthened in accordance with AASHTO's "A Policy on Geometric Design of Highways and Streets" design guidelines, to account for the increased stopping distance requirements.

4.7 Intersection Alignments

1. The centerlines of intersecting streets shall have an angle of intersection of as close to 90°as is practical. In no case will the angle of intersection be less than 75° for local street-collector/arterial intersections and 70° for local street-local street intersections.

2. Right-of-way lines at the corners of street intersections will be rounded with a curve radius of 25 feet, or greater, as conditions may warrant. The radii must be adjusted at skew intersections to provide sufficient curvature. In all cases, adequate sight distance shall be maintained.

3. Intersections of arterial and major collectors shall have a minimum curve radius of 40 feet, except when acceleration/deceleration lanes are required. Where acceleration/deceleration lanes are used, the curve radius may be reduced to 25 feet on the acceleration/deceleration lane or as dictated by the turning radius of the design vehicle not encroaching on the opposing lane. -

4. Uncurbed intersections shall only occur where a new street intersects an existing uncurbed roadway. Uncurbed intersections shall have concrete headers installed to protect the pavement edge. A transition to full height curb (if applicable) shall occur beyond the right of way or clear zone, whichever is greater.

5. Street jogs with centerline offsets of less than 135 feet shall not be allowed.

4.8 Intersection Sight Distance

Clear lines of sight shall be maintained along all streets and driveways (including PAALs) to provide for the safety of motorized and non-motorized vehicles and pedestrians. Sight visibility triangles shall be depicted in accordance with AASHTO criteria or as shown in the Town of Marana's Standard Details based on the design speed of the through street and the near side and far side distance requirements from the following table:

TABLE 4

Design Speed of Through Street (mph)	Near Side Requirement (ft)	Far Side Requirement (ft)
20	180	140
25	240	190
30	300	240
35	380	300
40	480	370
45	600	470
50	740	580
55	890	690

On streets with one-way traffic and on streets with two-way traffic separated by raised median islands (i.e. no opening) only the near side sight visibility triangle is required; however, a

pedestrian visibility triangle shall be maintained in place of the far side triangle as shown in the Town of Marana's Standard Details.

Where streets intersect in a cross configuration, each street is considered the intersecting street with the other street and shall be considered the through street for purposes of determining sight lines.

The near side and far side distance requirements of sight triangles along a horizontal curve shall be measured along the chord of the curve (not along the arc)-Refer to the Town of Marana's Standard Details. The sight line of the sight triangles shall supersede standard building setback lines where the sight line requires a greater setback distance. Sight visibility triangles shall be depicted to scale and in a surveyable manner on all final plats, development plans, plot plans and landscape plans. The area within the sight visibility triangle must be entirely enclosed by the right-of-way, easement, or common area.

The following restrictive note pertinent to sight visibility triangles shall be required on plats, development plans, plot plans and landscape plans.

"No improvements and/or landscape materials measuring vertically between 30 and 72 inches in height relative to the adjacent roadways that might interfere with sight visibility shall be placed and/or maintained within the sight visibility triangle."

4.9 Driveway Access Requirements

Driveway entrances are to be designed for the rapid ingress and egress of vehicles from the traveling roadway.

1. All streets with vertical curbs shall use driveway aprons. Driveway aprons shall be of portland cement concrete constructed to Town standards with a minimum length running from curb location to back of sidewalk location.

2. On streets designed with mountable curb, driveways shall abut the back of curb or sidewalk, and shall not have curve radii, and shall be constructed of Portland cement concrete or asphalt.

3. Commercial and Industrial driveways will be treated the same as street intersections with connections to arterials and major collectors with regards to driveway radii in accordance with section 4.7.3 unless the driveway is located within an auxiliary lane. Depressed curb driveways without radii may be used for driveways within auxiliary lanes.

4. Depressed curb driveways without radii may be used for service entrances, provided these entrances are clearly depicted as a "service entrance" on plats and development plans.

5. Driveways shall not be located where conflicts will be created with drainage facilities, intersections, deceleration/right-turn lanes, roadway tapers and/or other improvements.

6. No residential driveways shall encroach into an intersection curb radius where residential streets intersect.

4.10 Roadway Superelevation

Superelevation is generally not necessary on streets designed for travel speeds of 35 mph or less. Maximum superelevation shall be four percent and runoff lengths shall be computed in accordance with AASHTO's "A Policy on Geometric Design of Highways and Streets".

4.11 Roadway Drainage Crossings

The cross-slope of roadways for drainage purposes shall not exceed four percent, and comfortable speed as well as design speed must be maintained throughout the cross-slope.

Minimum cross-slopes shall maintain a two foot per second velocity for the 2-year peak flow, to reduce potential deposition of material in the roadway.

4.12 Mountainous Terrain

Mountainous terrain is that condition where longitudinal and transverse differentials in ground elevation with respect to the roadway are such that:

1. Benching, hill-side excavation, or other cuts and fills are needed; or

2. Excessive rights-of-way for either cut and fill slopes (multiple cuts and/or fills exceeding 15 feet of vertical change) or for roadway alignment are required; or

3. Significantly lengthened roadway sections and increases in right-of-way are necessary in order to obtain acceptable horizontal and vertical alignment; or

4. Terrain with an average cross slope of 15 percent (as defined within the Town of Marana's Land Development Code) or greater are present.

Roadways above the alluvial fan break of the Tortolita Fan are an example of the mountainous terrain classification.

For private local streets subject to this section, a design speed lower than 25 mph may be used, provided emergency services and school vehicles can safely traverse the roadway(s).

With prior written approval by the Town Engineer, the design engineer may utilize four foot shoulder widths and steeper longitudinal slopes (private streets only). Roadside drainage provisions shall be incorporated to minimize cross-flows and material deposition within the travel way. Particular attention shall be given to stopping sight distance and sight visibility during the roadway and grading design. Positive gradient slopes (those rising above the roadway) shall not be permitted within sight visibility triangles unless they conform to Chapter 4.8.

4.13 Environmentally Sensitive Roadways [RESERVED]

4.14 Alternative Access

1. Alternative Access requirements
   a. Subdivisions of more than 30 and not more than 80 lots shall in addition to the primary access have either an emergency access drive with a stabilized surface capable of supporting fire apparatus or another permanent roadway.

      i. Portions of a subdivision (such as cul-de-sacs and other no-outlet areas) must also meet this requirement.

      ii. In areas where it is determined by the Town Engineer that the provision of a secondary access is not practicable based on topography or other access constraints, the Town Engineer, in conjunction with the Fire Marshall may allow a single point of access provided that other mitigating requirements such as intermittent turn-around areas, fire sprinkler protection systems and/or other similar measures.

   b. Subdivisions of more than 80 lots shall have a minimum of two permanent roadway accesses.

      i. In areas where it is determined by the Town Engineer that the provision of a secondary permanent roadway access is not practicable, the Town Engineer may allow a single permanent roadway access provided that other mitigating requirements such as secondary emergency access, intermittent turn-around areas, fire sprinkler protection systems, and/or other similar measures.

   c. Phased subdivisions that will ultimately have a secondary compliant access must comply with one of the following requirements:

      i. At close-out of subdivision permitting and final release of assurances, a subsequent phase must already be under permit; or

      ii. At close-out of subdivision permitting and release of final assurances, a temporary roadway capable of supporting fire apparatus must be in place.

2. Entry roadway width requirements:

   a. Entry roadways with medians are required to have a minimum inside curb-to-curb entry width of 20 feet.

   b. Gated entry roadways are required to have a minimum inside curb-to-curb and/or open gate width of 20 feet. Gates must be accessible to the satisfaction of the Fire Marshall.

3. Any deviations from these requirements will require a design exception in accordance with Chapter 13.

5.0 RIGHT-OF-WAY

1. Local street rights-of-way shall be in conformance with the cross sections provided within the Town of Marana's Standard Details. Rights-of-way must be wide enough to encompass all publicly maintained facilities, clear zones, road side ditches, cut and fill slopes, and access to maintain such facilities.

2. Where not otherwise required by the Land Development Code, easements may be granted in lieu of right-of-way for certain cross section elements that are not to be maintained by the Town of Marana such as utilities, sidewalk/pedestrian/equestrian ways and slopes. Such easements must specifically grant right of entry to the Town of Marana and the public. Such right of entry shall include auxiliary areas as necessary to allow maintenance of facilities and to enable remedy of hazards to the public.

3. Additional rights-of-way may be required by the Town at intersections identified on the Major Routes Plan (as depicted in the Town's General Plan circulation element) or at intersections with collectors or arterials where it is deemed necessary to provide sufficient width for turning lanes, traffic interchanges, clear zones, sight visibility, and other design and safety considerations.

4. Should alternative sidewalk locations be approved, or if no sidewalk construction is required, the street(s) shall require a minimum of six feet of right-of-way adjacent to the back of curb on each side of the street for purposes of pedestrian refuge, meters, street furniture, public infrastructure, or other such uses (see Chapter 6.3).

5. When it is determined by the Town that, in the public interest or for the health, welfare or safety of same, access to or from a development or subdivision at a particular location should be prohibited, a one foot wide no-access easement shall be dedicated to the public. Physical barriers may also be required.

6. Supplemental right-of-way, common area and/or easements may be required at all intersections where standard right-of-way widths are unable to completely enclose sight distance triangles.

7. Where parking is designed to be between the sidewalk/pedestrian way and the garage, it must be designed to avoid encroachment onto the sidewalk by providing a minimum distance of 20 feet between sidewalk and garage.

6.0 ELEMENTS IN THE CROSS SECTION

Typical cross sections are shown in the Town of Marana's Standard Details. Selection of the appropriate cross section is dependent upon the functional classification of the roadway, the

ADT on the street, and the adjacent land use density. Additional pavement width may be provided, upon approval or requirement of the Town Engineer.

6.1 Travel Lanes

Specific applications of various lane width requirements are shown in the Town of Marana's Standard Details. The design engineer shall use these figures as the basis for design considerations.

6.2 Curbing

1. Curbing shall be required on all public streets as shown in the Town of Marana's Standard Details. The purpose of curbing shall be to adequately control drainage within the street, prevent moisture from entering the subgrade, control access to abutting property, separate the roadway from pedestrian areas, delineate the traveled roadway (in lieu of edge striping), control dust, and provide adequate lateral support for the pavement structure.

2. Curbing shall be six inch vertical curb and gutter (PAG standard detail 209 Type 1(G)) on collector and arterial roadway sections. Local streets shall use four inch roll type curb and gutter (MAG Detail 220 Type C).

3. At local street to local street intersections, the minimum curb radius shall be 25 feet to face of curb. At local street to collector/arterial intersections, the minimum curb radius shall be 40 feet. The curb radius of each intersection shall accommodate the design vehicle, and shall provide a turning diagram with the improvement plans showing that the design vehicle will not encroach into opposing lanes (included as part of the review documents or as separate exhibit)

4. Americans with Disabilities Act (ADA) compliant ramps shall be provided at all curb returns and shall be in accordance with Town of Marana standard details. Detectable warning surfaces (truncated domes per the Town of Marana standard details) shall be constructed at all ramps and at all pedestrian refuge areas at raised islands and medians.

6.3 Sidewalks

Sidewalks are required within all public and private roadways as shown on the Town of Marana's Standard Details

Sidewalks shall be constructed of Portland cement concrete with a minimum width of five feet if abutting a curb on local streets and a minimum width of four feet when a curbway is used. Additional sidewalk width may be required for special pedestrian generators, such as schools, recreation sites, and certain businesses.

1. Sidewalks shall be required along both sides of local streets where the minimum lot size is less than 16,000 square feet in accordance with the cross-sections in the Town of

Marana's Standard Details. For subdivisions with a minimum lot size of 16,000 square feet or greater, sidewalk shall be required on at least one side of the roadway.

2. Sidewalks shall run the entire length of the street unless authorized by the Town Engineer.

3. Streets may have sidewalks in an alternative location provided it is designed in a manner and location acceptable to the Town Engineer and the Planning Director.

4. In the event a curbway is used, the minimum width for the curbway is six feet, in accordance with the cross-sections in the Town of Marana's Standard Details.

5. A 10' public utility, roadway maintenance, and signage easement shall be granted behind all sidewalks where no curbway is present. At locations where public utility easements are not required (such as side yards), a five foot roadway maintenance and signage easement shall be required.

6. In pedestrian areas having curbways, the developer, owner, or private association having a Recorded License Agreement may allow abutting property owners to place decorative rock gravel, decomposed granite, ground cover, brick in sand, and/or other similar items in the curbway, medians, and ground slope areas without a permit from the Town of Marana. The property owner shall be responsible for the maintenance and replacement of said items placed within the curbway. Street trees must adhere to AASHTO's "*Roadside Design Guidelines*". Installation of street trees will require an approved Landscape Plan and License Agreement. All trees within a curbway must comply with section 6.10.f herein.

7. Neighborhood postal box units (NBU's) shall be designed and located in such a manner as to not present a hazard to the motoring public, cyclists, or pedestrians.

6.4 Shoulders

Uncurbed roadways in subdivisions are only allowed for temporary access roads. Where uncurbed roadways are used, the cross-slope of the shoulder shall match the roadway cross-section. Where infeasible due to topography and roadside drainage considerations, adjustments to the cross-slope may be made in accordance with AASHTO guidelines upon approval by the Town Engineer. Refer to AASHTO design guidelines for foreslope and backslope in cut and fill conditions.

6.5 Roadside Clear Zone

Clear zones shall be provided on all streets and shall be provided in accordance with the requirements stipulated within AASHTO, "Roadside Design Guide". Sufficient right-of-way or easements shall be granted to the Town for all clear zones.

If it is infeasible to provide this clear zone, a suitable traffic barrier as defined in the AASHTO publication "Roadside Design Guide", shall be provided.

6.6 Roadside Vehicle Barriers

Determination of warrants for the installation of roadside vehicle barriers (barriers) shall be in accordance with AASHTO's "Roadside Design Guide. Barriers shall be installed in accordance with current ADOT Standard Specifications and Drawings.

Obstructions may also require barriers to provide for motorist safety. Refer to AASHTO's "A Policy on Geometric Design of Highways and Streets" and "Roadside Design Guide", for definitions of obstructions and applications of barriers.

6.7 Pedestrian Barricade Railing

Barricade railing shall be installed for protection of pedestrians whenever slopes are steeper than three-to-one (3:1) within three feet of the sidewalk and the embankment height is three feet or greater. The Town Engineer may determine whether the elevation differences between the sidewalk and nearby terrain warrant pedestrian barricade railing or if other special circumstances may also warrant the installation of barricade railing. Barricade railing shall be required on the sheer/vertical side of all scuppers abutting pedestrian walkway areas where the vertical step is greater than six inches in vertical distance

6.8 Roadside Ditches

Roadside ditches shall not be constructed within the shoulder area. Ditches constructed within the clear zone (outside the shoulder) shall be in accordance with AASHTO's "Roadside Design Guide", and "A Policy on Geometric Design of Highways and Streets", in addition to applicable Chapters herein.

6.9 Cut and Fill Slopes

All cut and fill slopes shall be constructed in accordance with the Marana Land Development Code Grading Standards and AASHTO, and shall be either revegetated or stabilized as follows:

1. Cut or fill slopes three-to-one (3:1) (horizontal: vertical) or flatter, shall at a minimum, be revegetated or use other suitable ground cover as determined by the Town Engineer.

2. Cut or fill slopes two-to-one (2:1) or flatter, but steeper than three-to-one (3:1) shall be rock rip-rapped with filter fabric installed beneath the rock per PAG Standard Specifications.

3. Cut or fill slopes steeper than two-to-one (2:1) shall have grouted rip-rap, mechanically stabilized earth retaining measures, concrete, shot-crete, or retaining walls as appropriate.

4. Alternative methods of stabilization may be allowed if certified by a registered geotechnical engineer, subject to approval by the Town Engineer.

5. Terracing may be constructed in accordance with the Marana Land Development Code Grading Standards.

6.10 Landscaping in the Public Right-of-Way

1. Bufferyards where required by the Marana Land Development Code may be allowed in public right(s)-of-way. The Town Engineer and Planning Director will consider project safety, future expansion of the roadway, drainage concerns, adjoining land uses, and other criteria on a case-by-case basis during the review process. If a landscape bufferyard is requested within the Town right(s)-of-way, the developer and/or design engineer shall obtain approval from the Town Engineer prior to design approval and acceptance. If approved, a landscape bufferyard shall be subject to the following conditions:

    a. Not more than 50 percent of the required bufferyard width may be allowed the public right(s)-of-way, except along major routes having a designated buffer;

    b. The location and size of landscape elements shall be in conformance with standards available from the Town Engineer and Planning Director and are subject to the Town Engineer's and Planning Director's approval;

    c. The installation and maintenance of landscaping in the public right(s)-of-way shall be accomplished by the developer, owner or private association as agreed to in the approved, recorded covenants, conditions and restrictions. Assurances and insurance policies, in a form acceptable to the Town, shall be required for all landscaping constructed within the public right(s)-of-way;

    d. A perpetual License Agreement shall be required for landscaping items within the public right(s)-of-way

    e. Turf landscaping shall not be permitted within the right-of-way, nor shall it be permitted to drain onto pedestrian ways or pavement; and

    f. All trees installed within six feet of the edge of a street shoulder or curb shall be planted with a root barrier/well extending a minimum of three feet below the top of grade as shown in the Town of Marana standard details.

    g. Irrigation lines larger than ¾" diameter shall be placed as far as practicable from the street shoulder or curb. When placed within a curbway, irrigation lines are to be placed close to the sidewalk. When placed within a median, irrigation lines are to be placed in the center of the median.

7.0 SUPPLEMENTAL ELEMENTS

7.1 Turning Lanes

Pavement widening for turning movements onto arterial and collector streets may be required by the Town Engineer. Turning lanes shall be a minimum of twelve feet in width, but may be wider as required by the Town Engineer. Pavement tapers required for any roadway improvements, herein, shall be designed in conformance with Pima County's "*Roadway Design Manual*", and as determined by the Town Engineer.

8.0 UTILITIES

The main lines of electric, gas, water, telephone and communications, sanitary sewer, and drainage facilities shall be located as shown in the Town of Marana Standard Details. Alternate locations may be used with the written permission of the affected utility and the Town Engineer. Utility companies franchised to operate in Town of Marana right(s)-of-way for electric, telephone, and communications may be permitted under the terms of adopted franchise agreements. Utility easements are required where applicable and shall allow for public access.

With the exception of minor service extensions to individual parcels, all longitudinal utility facilities between service points to individual parcels shall be located within street right-of-way. Strip easements may be provided along streets in lieu of right-of-way for utility purposes, and for other uses compatible with utility needs (subject to utility company approval). Access between the street and the private property shall not be denied, unless unsafe conditions will occur.

All sanitary sewer facilities shall be provided in accordance with the current Pima County Regional Wastewater Reclamation Department's (RWRD) or Marana design standards, specifications, and details.

All services shall be provided or stubbed out into existing or planned parcels with all new street construction to avoid the need to remove and replace new pavement within the five year pavement cut moratorium (Per Town Code 12-7-9). Sewer connection stub-outs are to extend a minimum of ten feet beyond the right(s)-of-way, while other service connection stub-outs are to extend a minimum of five feet beyond the right-of-way.

Service extensions (sewer and water) shall be backfilled and compacted (within the curbway and sidewalk area) to a minimum of 95 percent of the maximum density at optimum moisture (per Arizona Modified Test Method 225a). All utilities are to be installed in accordance with applicable utility company standards, or the Pima Association of Government's "Standard Specifications and details for Public Improvements", whichever is more restrictive. All utilities installed beneath the pavement or curb and gutter shall be backfilled and compacted to a minimum of 95 percent of the maximum density at optimum moisture in accordance with the approved Grading and Paving Plans and Arizona Modified Test Method 225a.

9.0 DRAINAGE

9.1 Street Drainage

Street drainage shall not exceed 50 cubic feet per second (cfs) from the base flood without authorization by the Town Engineer and in no case shall street flows exceed 100 cfs at the confluence point exiting the roadway. The runoff from a 10 -year storm must be contained between the street curbs. The based flood (100-year storm) discharge must be contained within the right(s)-of-way.

Outlet structures for private retention/detention facilities, or other private drainage systems, shall not be permitted to discharge into the public right(s)-of-way without authorization by the Town Engineer. Should the outlet be allowed, outlet protection and energy dissipation will be required as directed.

Offsite drainage flows are not allowed to be accepted into and carried by the street drainage system.

9.2 Storm Drain Design

All catch basins with curb inlets shall have formed concrete gutters. The minimum diameter of a storm drain is 24" for mains and 18" for laterals connecting a single catch basin.

All storm drain pipes and culverts installed in public right(s)-of-way shall be made of reinforced concrete (pipes and/or boxes).

Longitudinal slotted drain is permitted in conjunction with curb and gutter. Transverse installation of slotted drain is prohibited.

The energy grade-line of a storm drain shall be below finished grade of the associated roadway gutterline.

9.3 Erosion Control Cut-off Walls

Required erosion control cut-off wall depths shall be designed one foot deeper than the scour depth as determined by the use of the approved local scour equations and as required in the approved Drainage Report. However, in no case shall cut-off walls be less than three feet in depth. Sliding and overturning moments shall be analyzed for cut-off wall protected dip sections on all-weather access streets. Cut-off walls shall be placed a minimum of four feet out from the upstream roadway edge of pavement line, and to the edge of the shoulder downstream. Cut-off walls shall extend a minimum of five feet beyond each side of the calculated drainage opening and scour limits parallel to the roadway as determined by the approved local scour equations and the approved drainage report. The pavement shall be widened to the upstream and downstream cut-off walls.

9.4 Curb Openings

Drainage conveyed within the street while being delivered to channels or outlets may be disposed of through depressed curb openings no greater than ten feet in length unless approved by the Town Engineer. These openings shall be fitted with outlet aprons. When stormwater runoff is crossing a pedestrian–way, scuppers shall be used. Should the hydraulic design require greater conveyance than can be provided by such an opening, some other structure must be used as approved by the Town Engineer. Roadway curb openings and drainage inlets shall be fitted with appropriate barricades as necessary, and the pavement-to-inlet grade shall not be less than two percent.

At locations where runoff leaves the roadway, physical means of earth stabilization or pavement protection must not interfere with clear zone requirements, and must be traversable by errant vehicles without risk of damage to those vehicles.

10.0 Pavement Design

1. These pavement design standards apply to all local street improvement projects designed as a part of development. Each development that involves street construction shall submit for approval a Pavement Design Report containing the following information for each street: a tabulation of results of soil subgrade tests; projected ADTs (construction traffic; equivalent single axle loads (ESAL) used, and construction traffic); structural numbers (SN); and pavement thickness for each street. A minimum 20-year pavement design life is required. The 20-year design life is to be computed beginning in the build-out year. The build-out year is defined as that year when all homes/buildings are projected to be completed within the proposed development. Estimated construction traffic through build-out must be considered.

2. The following ESALs, based on the 20-year projected ADT, will be accepted for pavement design:

TABLE 5

20-Year ADT	ESAL
<500	40,000
500-1,000	70,000
1,000-1,500	100,000
1,500-2,500	150,000

When the projected 20-year ADT exceeds 2500, or when the engineer desires to calculate his/her own ESALs, complete calculations, including a breakdown of the traffic by vehicle type, shall be included in the Pavement Design Report. The ESAL calculations shall be based on the 20-year design period and the following ESAL factors (originally from City of Tucson pavement active practice guidelines):

TABLE 6

Vehicle Type	Symbol	ESAL Factor
Passenger Car	P	0.0008
Bus	BUS	3.8580
Single Truck	LT	0.0120
Single Truck (Dual rear or 3 axle)	MT	0.4000
Tractor-Trailer	TS	1.8690
Truck-Tandem Trailer	TT	2.1250
Tractor-Tandem Trailer	TST	2.9880

Refer to "Materials - Preliminary Engineering and Design Manual", ADOT and, "*Guide for Design of Pavement Structures*", AASHTO for information pertaining to the requirements herein.

3. Subgrade sampling and testing for roadways shall be accomplished in accordance with standard ADOT procedures and the results tabulated in the Pavement Design Report. Soil support values shall be calculated in accordance with ADOT's "*Materials – Preliminary Engineering and Design Manual*" and the selection of a design soil support value shall be fully documented in the Pavement Design Report.

4. Weighted structural numbers shall be calculated using the design soil support value, the appropriate ESAL, and a regional factor of 1.7. The minimum weighted structural number is to be 1.75. A minimum terminal serviceability index of 2.0 (ADOT) is acceptable for design of local streets.

5. Pavement thicknesses shall be calculated in accordance with the design equations in the ADOT manual. The layer coefficient for asphaltic concrete shall be 0.44. The layer coefficient for aggregate base course shall be 0.11. Minimum thicknesses are to be as follows (or greater as determined by pavement design report):

TABLE 7

Roadway Type	AC	ABC
Local	3.0"PAG2	4.0"
Local Collector	3.0"PAG2	6.0"
Commercial/Industrial Collector	2.0"PAG2over 4"PAG1	6.0"

6. Sub-base material shall be engineered to the specifications required by Pima County/City of Tucson "*Standard Specifications for Public Improvements"* and/or the Pima Association of Governments Standard Specifications, and should be of significantly higher quality than native soil. Sub-base may not be used as part of the pavement section when the subgrade soil has an R-value of 30 or greater. In addition, when sub-base material is used, the thickness of the sub-base may not be more than one-and-a half (1.5) times the combined thickness of the asphalt and aggregate base courses. The layer coefficient for material, which meets minimum Town of Marana standards for subbase, is 0.05. If better quality material is used, a larger layer coefficient may be used in accordance with the ADOT manual.

7. When existing streets are widened, the new pavement section shall either match the existing pavement section or meet minimum thicknesses as required in paragraph 5 above, whichever is greater. Upon completion of a pavement widening, the complete roadway cross section may be required to receive a rubberized stress absorbing membrane chip seal, asphaltic-concrete overlay, or a combination of treatments thereof, at the discretion of the Town Engineer, for the entire length of the pavement widening. Appropriate pavement markings and traffic control signage will be required with the seal coat/overlay application.

8. When streets are designed which may ultimately connect to future developments, pavement design shall accommodate future wheel loads, including construction traffic, to account for use of the roadway as a haul-road.

9. Subsequent to subdivision buildout (but no later than 2 years after paving), the developer shall perform a pavement surface seal of the subdivision streets and any offsite roads improved as a part of the subdivision development. Local streets are to be sealed with a high density mineral bond or approved equal. Roadways that are classified as collectors and above are to be sealed with Tire Rubber Modified Surface Seal or approved equal. At the time of subdivision closeout and acceptance of streets, the developer shall either post an assurance in a form acceptable to the Town or pay an in lieu fee to secure such work.

11.0 TRAFFIC CONTROL SIGNAGE AND PAVEMENT MARKINGS

1. All traffic control signage and pavement markings within new subdivisions shall be posted and installed in accordance with the Manual on Uniform Traffic Control Devices (Latest Edition), Town of Marana standard details and notes, and the latest edition of the Pima County/City of Tucson's "*Pavement Marking Design Manual*" and "*Signing Manual*" (latest editions) as appropriate and as approved by the Town Engineer. A signage and/or striping plan shall be submitted as part of any roadway improvement plan.

2. All temporary ends of road shall be posted with post barricades or end of road markers as approved by the Town Engineer. If grading has occurred in the alignment beyond the end of road, at least two permanent Type 3 barricades as described within FHWA's "*Manual on Uniform Traffic Control Devices*" shall be added to the roadway end, with a minimum of two Type 4 End of Roadway object markers (OM4-1). The object markers shall be mounted on each Type 3 barricade. A warning sign (W14-1) and a specialty warning sign stating, "Future Roadway Extension" with a minimum size of 24" x 24" shall be installed at the temporary end of roadway.

3. Upon review of traffic operational conditions and within the one year warranty period, the Town Engineer may require additional signage or pavement markings by the developer. Said additions shall be provided at no cost to the Town.

4. All private streets shall be posted "NOT A TOWN MAINTAINED STREET - PRIVATE" where they intersect public streets unless the private streets are part of a gated community.

5. Pavement markings shall be extruded or ribbon dispensed thermoplastic paint (pressure sensitive tape shall be used for legends and arrows) and meet the Pima Association of Government's "Standard Specifications and details for Public Improvements". Seal coated streets with pavement markings are to have two applications, one of temporary paint, the other of thermoplastic paint.

6. Street name signs shall be diamond grade reflective, shall state the direction of the street, and shall comply with FHWA's "*Manual on Uniform Traffic Control Devices*" and Town standard details.

12.0 NEIGHBORHOOD TRAFFIC MANAGEMENT

Traffic calming measures consist of traffic control devices and physical elements constructed in the roadway that control access to neighborhoods, change travel patterns or regulate the flow of traffic through a neighborhood.

The need for traffic calming measures should be considered when addressing the potential for cut-through traffic in a new subdivision. If it appears that the volume of cut-through traffic may be significant, The Town should be consulted with prior to designing traffic calming measures on the impacted streets.

The traffic calming measures can include speed humps, traffic circles, chicanes, oval medians and other measures as approved by the Town Engineer.

13.0 DESIGN EXCEPTIONS

It is recognized that land is unique, and there may be alternative design solutions to those mandated by these standards that will satisfy AASHTO, Fire Code, and other standards.

In the event an engineer wishes to employ alternative standards, a design exception report may be submitted to the Town to substantiate the proposal. As required, the design exception report must, at a minimum, provide:

- The section of these standards from which relief is desired;
- The supporting standards for the proposed alternative;
- An approval letter from the local fire district;
- Approvals from any affected utilities; and
- Other justification, as deemed appropriate by the Town.

The design exception report must be sealed by an engineer registered in the state of Arizona and will be reviewed by the Town Engineer in consultation with the Planning Director.

The Town Engineer may grant or deny the design exception. If the applicant wishes to appeal the decision of the Town Engineer, the decision will be forwarded to the next reasonably available planning commission meeting. The planning commission will decide whether to uphold or overturn the Town Engineer's denial of the design exception.

14.0 DEFINITIONS AND ACRONYMS

AASHTO: The American Association of State Highway and Transportation Officials.

ADOT: Arizona Department of Transportation

AVERAGE DAILY TRAFFIC (ADT): The volume of traffic on a street on a typical weekday.

ALL-WEATHER ACCESS: Access considered traversable by normal passenger vehicles, defined as a permanent, durable material with adequate protection against scour and erosion and having a depth of water no more than 12 inches above the roadway surface during a Base Flood. Asphalt, Concrete, and traffic rated pavers are considered durable surfaces. All other surfaces must be approved by the Town Engineer. See also the Floodplain and Erosion Hazard Management Code, Chapter 17-15 of the Town Code.

BUILDING SETBACK: The minimum distance from a point on a property line to the closest point of any building.

CC & Rs: An acronym for Covenants, Conditions and Restrictions.

COLLECTOR STREET: A street designed to distribute traffic between local streets and arterial streets. See PCDOT's "Roadway Design Manual" for further discussion.

CROWN: A cross-slope of difference in elevation between the high point of a street and the gutter line, adjacent to the pavement edge, for any given cross section. Crown is normally expressed as a percentage.

CURB CUT: A depressed segment of a vertical roadway curb.

CURB RETURN: A curved segment of a curb used at each end of an opening in the roadway curb.

CURBWAY: The area between the back of curb and the roadway edge of the sidewalk.

DESIGN YEAR: The year during which the roadway improvements shall reach life expectancy with normal maintenance, generally 20 years.

DEVELOPER: The private party in whose interest engineering documents, plats and plans are submitted for the purposes of review and regulation of private land development in the Town of Marana.

DRIVEWAY: A point of vehicular access between a street and an abutting property.

ENGINEER: The design engineer or engineer of record.

FHWA: U.S. Department of Transportation, Federal Highway Administration

FIRE APPARATUS ACCESS ROAD: Per the International Fire Code (IFC), *a road that provides fire apparatus access from a fire station to a facility, building or portion thereof. This is a general term inclusive of all other terms such as fire lane, public street, private street, parking lot lane and access roadway* Per Appendix D of the IFC, the fire apparatus access road must have *an asphalt, concrete or other approved driving surface capable of supporting the imposed load of fire apparatus weighing at least 75,000 pounds.*. For the purposes of these street standards, all roadways defined by these standards are considered fire apparatus access roads.

FRONTAGE ROAD: A local street or road auxiliary, located on the side of a collector or arterial street, which provides service to abutting property and adjacent areas while controlling access.

FUNCTIONAL CLASSIFICATION: A way of distinguishing between street types by the function each serves, such as freeway (limited access), arterial, collector, and local streets.

HOMEOWNERS' ASSOCIATION (HOA): A legal entity established for the purpose of owning and maintaining commonly held private real property.

INTERIM PAVING: Paving placed to designed grades that can be expanded to a permanent improvement at a future time.

INVERT: The difference in elevation between the low point of a street and a chord line connecting the outer edges of pavement or gutter lines.

ITE: Institute of Transportation Engineers

LEVEL OF SERVICE (LOS): A general term describing the operating conditions a driver will experience while traveling on a particular roadway facility. Where roadway conditions are fixed, level of service varies primarily with volume.

LOCAL STREET: A street that primarily serves as access to residences or other abutting properties.

MAJOR ROUTES PLAN: The most recent version of the Plan, as adopted by the Mayor and Council. As of this printing the major routes plan is contained in the Town's General Plan as its circulation element.

MINIMUM: The least quantity or amount allowable for a singular design condition, and may not be an acceptable state in consideration of other aspects of project design.

MUTCD: Federal Highway Administration's "Manual on Uniform Traffic Control Devices"

NO-ACCESS EASEMENT: A strip of land across which vehicular traffic is prohibited, except emergency and utility vehicles. No-access easements, unless specifically overridden by plat conditions, also prohibit access such as driveways, sidewalks, paths, and gates.

OFF-STREET PARKING: Any space provided for vehicular parking not within the street right-of-way.

ON-STREET PARKING: The parking lane adjacent to travel lanes in a traveled roadway.

ONE-WAY STREET: A street that has only one legal direction of travel.

PAG: Pima Association of Governments

PC/COT: Pima County/City of Tucson

PCDOT: Pima County Department of Transportation

TOWN: Town of Marana, a political subdivision of the State of Arizona.

TOWN ENGINEER: An officer of Town created by the Marana Town Code. The Town Engineer has the powers and duties set forth by state law as well as town ordinance, resolution, order or directive. Notwithstanding the above, the Town Engineer has charge of the Town streets and public works and performs those duties as may be required by law and any other duties as the Town manager may deem necessary. The Town Engineer may delegate duties to other responsible staff.

15.0 REFERENCES

1. "*A Policy on Geometric Design of Highways and Streets*", American Association of State Highway and Transportation Officials (AASHTO).
2. "*Roadside Design Guide*", AASHTO.
3. "*Manual on Uniform Traffic Control Devices*", United States Department of Transportation, Federal Highways Administration, (FHWA).
4. "*Guide for Design of Pavement Structures*", AASHTO.
5. "*Guidelines for Geometric Design of Very Low-Volume Local Roads (ADT≤400)*", AASHTO.
6. "*Highway Capacity Manual*", Transportation Research Board, (TRB).
7. "*Trip Generation*", Institute of Transportation Engineers (ITE).
8. "*Trip Generation Handbook*", ITE.
9. "*Traffic Engineering Manual of Approved Signs*", Arizona Department of Transportation (ADOT).
10. "*Materials-Preliminary Engineering and Design Manual*", ADOT.
11. "*Traffic Impact Analysis for Proposed Developments*", ADOT; or as superseded by the Town of Marana.
12. "*Bridge Design and Detailing Manual*", ADOT.
13. "*Construction Standards – Construction, Bridge, Signing and Marking*", ADOT.
14. "*Construction Standard Drawings*", ADOT.
15. "*Signing and Marking Standard Drawings*", ADOT.
16. "*Pima County Roadway Design Manual*", and applicable references therein, Pima County Department of Transportation & Flood Control District, (PCDOT & FCD).
17. "*Standard Specifications for Public Improvements*", Pima County/City of Tucson, (PC/COT).
18. "*Standard Details for Public Improvements*", PC/COT.
19. "*Pavement Marking Design Manual*", PC/COT.
20. "*Traffic Signing Manual*", PC/DOT.
21. "*Drainage and Channel Design Standards for Local Drainage for Floodplain Management within Pima County, Arizona*", PCDOT & FCD.
22. "*Stormdrain Design Guidelines and Standard Plans*", Pima County Department of Transportation (PCDOT) & Pima County Flood Control District (FCD).
23. "*Manual of Engineering Standards and Procedures*", Pima County Wastewater Management Department (PCWMD).
24. "*Standard Specifications and Details*", City of Tucson Water Department, (COTWD).
25. "*Procedures for Preparation of: Transportation Impact Studies",* Town of Marana .
26. The Town of Marana Neighborhood Traffic Management Program Manual (proposed).
27. Marana Standard Details
28. Pima Association of Government's "Standard Specifications and Details for Public Improvements"

All references refer to the latest edition unless otherwise noted

Town of Marana
Standard Details

SECTION 100 STREETS

100-1	LOCAL STREET
100-2	LOCAL STREET MOUNTAINOUS TERRAIN
100-3	ALLEY
100-4	NO LONGER USED
100-5	MINOR COLLECTOR
100-6	SMALL RURAL SUBDIVISION STREET
110-1	2-LANE RURAL COLLECTOR
110-2	2-LANE URBAN COLLECTOR -MEDIAN
110-3	2-LANE URBAN COLLECTOR -CONT. LT TURN LANE
120-1	4-LANE COLLECTOR OR ARTERIAL
120-2	6-LANE ARTERIAL
170-1	EYEBROW KNUCKLE
170-2	EYEBROW CUL-DE-SAC
170-3	STANDARD CUL-DE-SAC
170-4	OFFSET CUL-DE-SAC
170-5	LANDSCAPED CUL-DE-SAC
170-6	TEMPORARY CUL-DE-SAC
170-7	TURNAROUNDS
190-1	LOCAL STREET JOGS
190-2	LOCAL STREET INTERSECTIONS
190-3	TYPICAL SIGHT VISIBILITY TRIANGLES
190-4	TYPICAL EASEMENTS

SECTION 500 UTILITIES

500-1	TYPICAL UTILITY EASEMENTS

SECTION 600 MISCELLANEOUS DETAILS

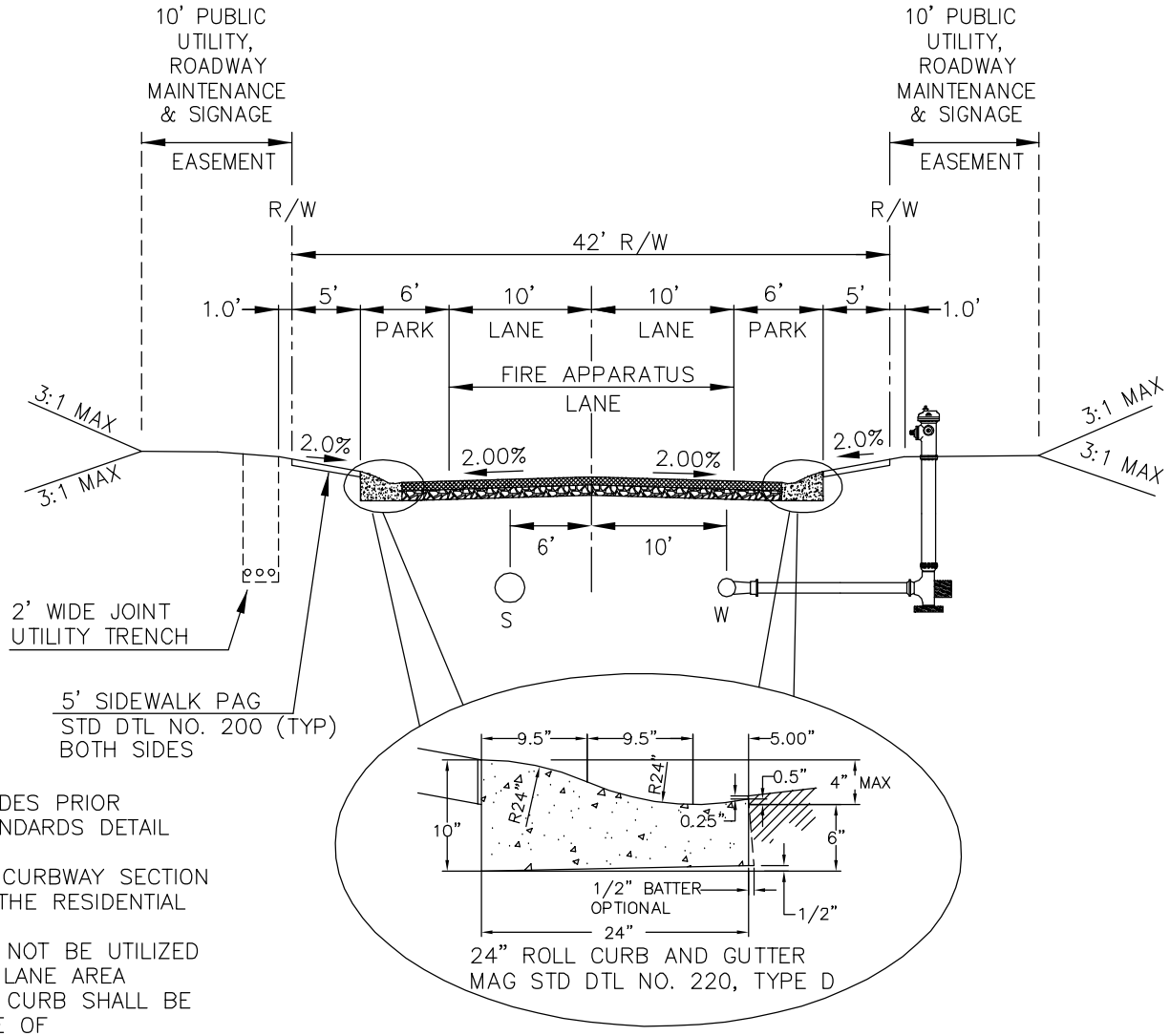
600-1	TYPE 1 CURB RAMPS
600-2	TYPE 2 CURB RAMPS
600-3	TYPE 3 CURB RAMPS
610-1	LANDSCAPING PROTECTION

APPROVED FOR DISTRIBUTION:
JUNE 21, 2016

Keith E. Brann, P.E.,
Town Engineer

SECTION 700 TRAFFIC CONTROL

700-1	ROUNDABOUT
730-210	FOUNDATION FOR TYPE IV,V CONTROLLER CABINETS
730-400	GENERAL TRAFFIC SIGNAL RESPONSIBILITIES
730-401	GENERAL TRAFFIC SIGNAL NOTES
730-408	POLE LOADING DETAIL TYPE A POLE
730-409	POLE AND MAST ARM LOADING DETAIL TYPE G POLE WITH 20FT MAST ARM
730-410	MAST ARM LOADING DETAIL TYPE K AND R POLE WITH 55FT MAST ARM
730-411	MAST ARM LOADING DETAIL TYPE K AND R POLE WITH 50FT MAST ARM
730-412	MAST ARM LOADING DETAIL TYPE K AND R POLE WITH 45FT MAST ARM
730-413	MAST ARM LOADING DETAIL TYPE J AND Q POLE WITH 40FT MAST ARM
730-414	MAST ARM LOADING DETAIL TYPE J AND Q POLE WITH 35FT MAST ARM
730-415	MAST ARM LOADING DETAIL TYPE J AND Q POLE WITH 30FT MAST ARM
730-416	MAST ARM LOADING DETAIL TYPE J AND Q POLE WITH 25FT MAST ARM
730-417	MAST ARM LOADING DETAIL TYPE E AND F POLE WITH 20FT MAST ARM
730-701	TYPICAL TRAFFIC SIGNAL CONDUIT SCHEMATIC
730-702	TYPICAL TRAFFIC SIGNAL CABLE SCHEMATIC
730-703	TRAFFIC SIGNAL WIRING SCHEMATIC
730-710	6' X 6' LOOP DETECTOR
730-712	PRESENCE LOOP DETECTOR
730-800	STANDARD TRAFFIC SIGNAL PHASING
730-901	TYPE I AND II MOUNTING ASSEMBLIES
730-902	TYPE III AND IV MOUNTING ASSEMBLIES
730-903	TYPE V MOUNTING ASSEMBLY
730-904	TYPE VI MOUNTING ASSEMBLY
730-905	TYPE VII MOUNTING ASSEMBLY
730-906	TYPE VIII MOUNTING ASSEMBLY
730-907	TYPE IX MOUNTING ASSEMBLY
730-908	TYPE X MOUNTING ASSEMBLY
730-1810	UPS AND ELECTRIC SERVICE
730-1910	PRE-EMPTION MOUNTING DETAIL
730-1911	CAMERA AND MOUNT ASSEMBLY
730-1912	RECEPTACLE AND WREATH MOUNT
740-1	WAYFINDING SIGN



1. THIS DETAIL SUPERSEDES PRIOR SUBDIVISION STREET STANDARDS DETAIL NUMBER 1.
2. THE USE OF A NON-CURBWAY SECTION MAY NOT COMPLY WITH THE RESIDENTIAL DESIGN GUIDELINES.
3. ROLLED CURB SHALL NOT BE UTILIZED WITHIN FIRE APPARATUS LANE AREA
4. MAG TYPE C ROLLED CURB SHALL BE USED ON THE HIGH SIDE OF SUPERELEVATED SECTIONS

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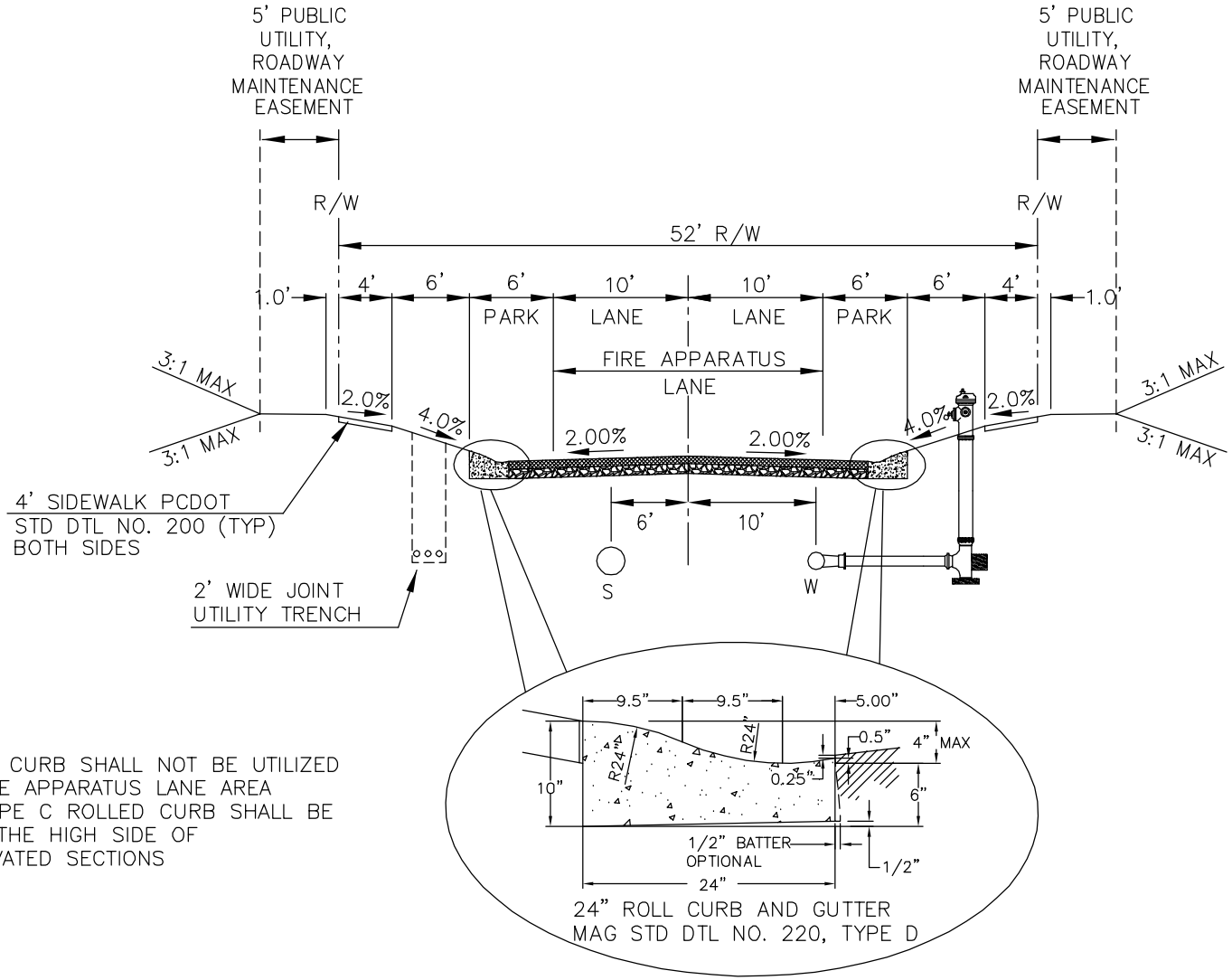
EXPIRES 6/30/2019

Registered Professional Engineer (Civil) CERTIFICATE NO. 40845 KEITH EDWARD BRANN Date Signed ARIZONA, U.S.A.

TOWN OF MARANA 1977 ARIZONA

NOT TO SCALE

STANDARD DETAIL		DETAIL NO:
LOCAL STREET		100-1
DATE: 3/4/2004	REVISED: 6/21/2016	SHEET 1 OF 2



24" ROLL CURB AND GUTTER
MAG STD DTL NO. 220, TYPE D

1. ROLLED CURB SHALL NOT BE UTILIZED WITHIN FIRE APPARATUS LANE AREA
2. MAG TYPE C ROLLED CURB SHALL BE USED ON THE HIGH SIDE OF SUPERELEVATED SECTIONS

NOT TO SCALE

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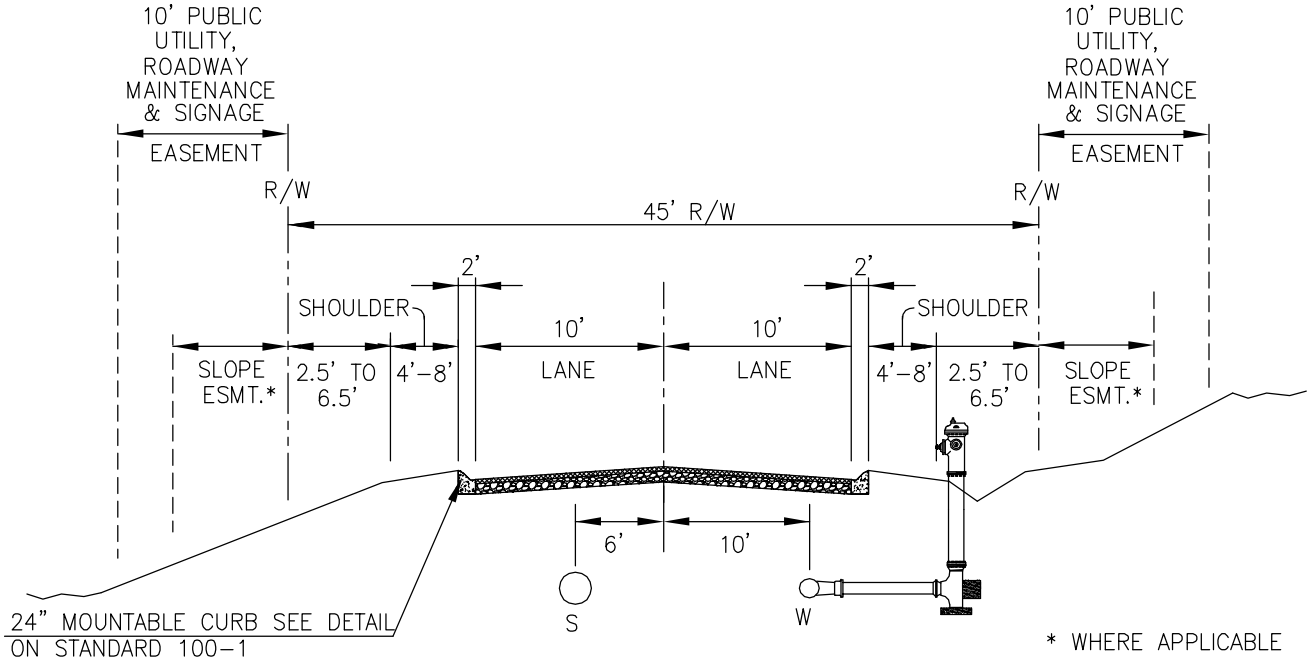
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STANDARD DETAIL		DETAIL NO:
LOCAL STREET WITH CURBWAY		100–1
DATE: 3/4/2005	REVISED: 6/21/2016	SHEET 2 OF 2



1. THIS DETAIL SUPERSEDES PRIOR SUBDIVISION STREET STANDARDS DETAIL NUMBER 2.
2. DIVIDED ROADWAYS OR ISLANDS ARE NOT PERMITTED. SEE CHAPTER 4.12 OF THE SUBDIVISION STREET STANDARDS MANUAL FOR APPLICATION.
3. 8' SHOULDERS ARE TO BE USED EXCEPT AS NOTED BELOW AND IN CHAPTER 4.12 OF THE SUBDIVISION STREET STANDARDS MANUAL.
4. SHOULDER WIDTH MAY BE VARIED BY THE ENGINEER TO SAVE NATIVE GROWTH. HOWEVER, IT MUST CONFORM TO CHAPTER 6 OF THE SUBDIVISION STREET STANDARDS MANUAL.

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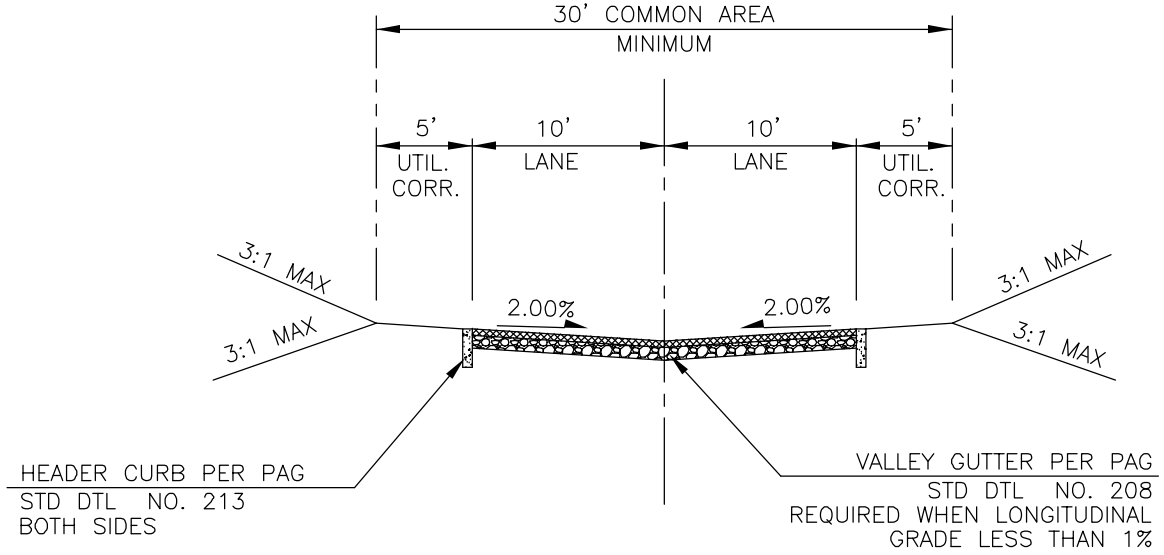
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NOT TO SCALE

STANDARD DETAIL		DETAIL NO:
LOCAL STREET MOUNTAINOUS TERRAIN		100-2
DATE: 3/4/2004	REVISED: 6/21/2016	SHEET 1 OF 1



1. FOR COMMNUNITIES REQUESTING "NEW URBANISM"/"NEO TRADITIONAL" DESIGN
2. ALLEYS ARE NOT TO BE MAINTAINED BY TOWN OF MARANA

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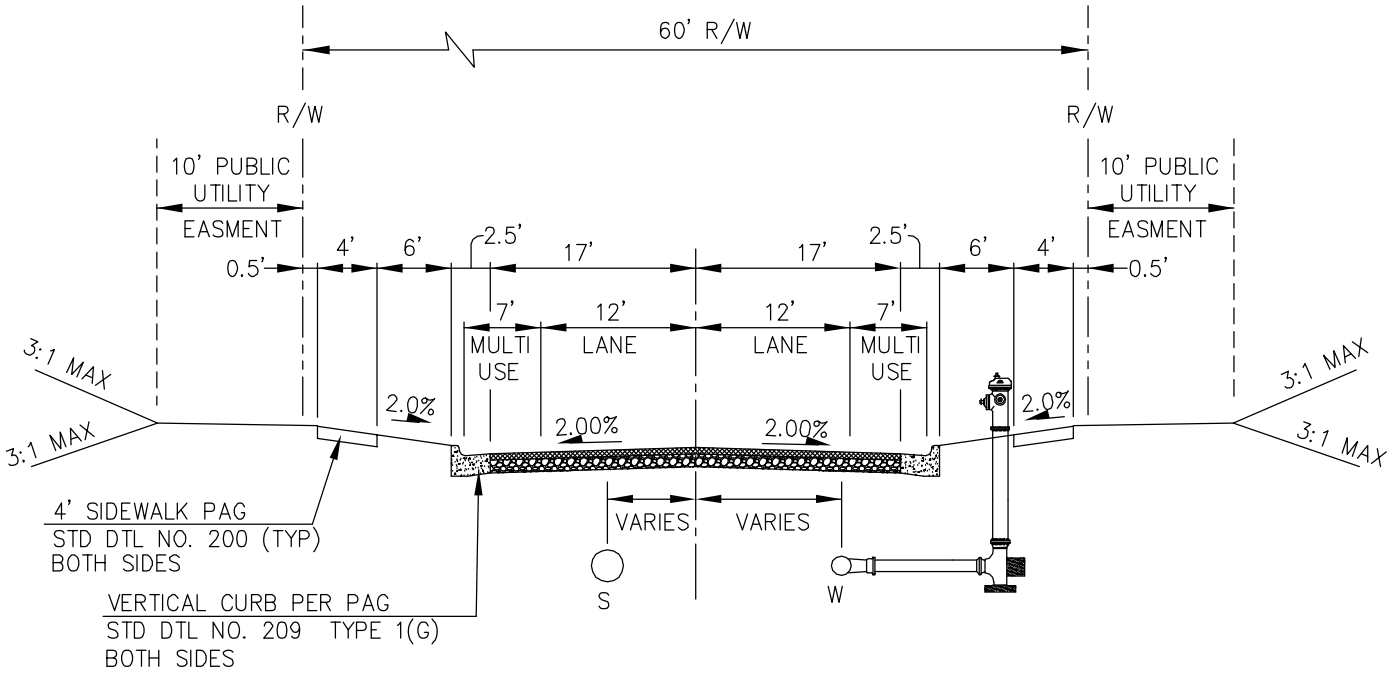
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TOWN OF MARANA ARIZONA 1977

NOT TO SCALE

STANDARD DETAIL		DETAIL NO:
ALLEY		100-3
DATE: 2/16/2007	REVISED: 6/21/2016	SHEET 1 OF 1

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Marana Regular Council Meeting 06/21/2016



1. THIS DETAIL SUPERSEDES PRIOR SUBDIVISION STREET STANDARDS DETAIL NUMBERS 3 AND 4.
2. NO ON STREET PARKING SUPPORTED.

NOT TO SCALE

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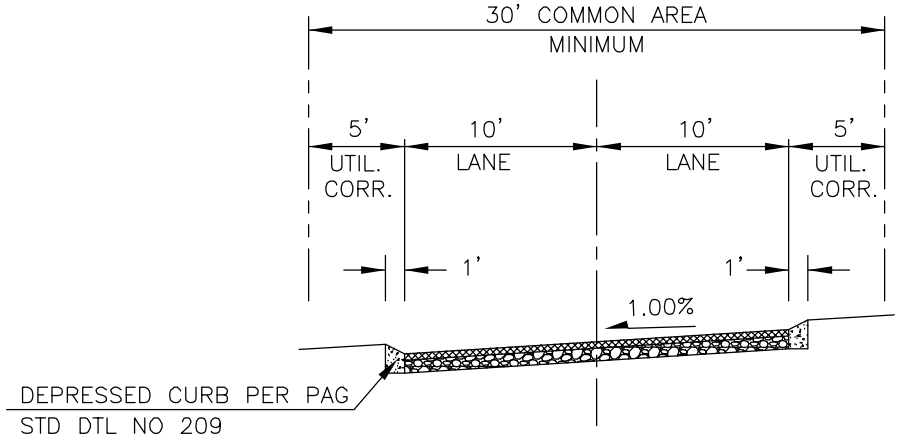
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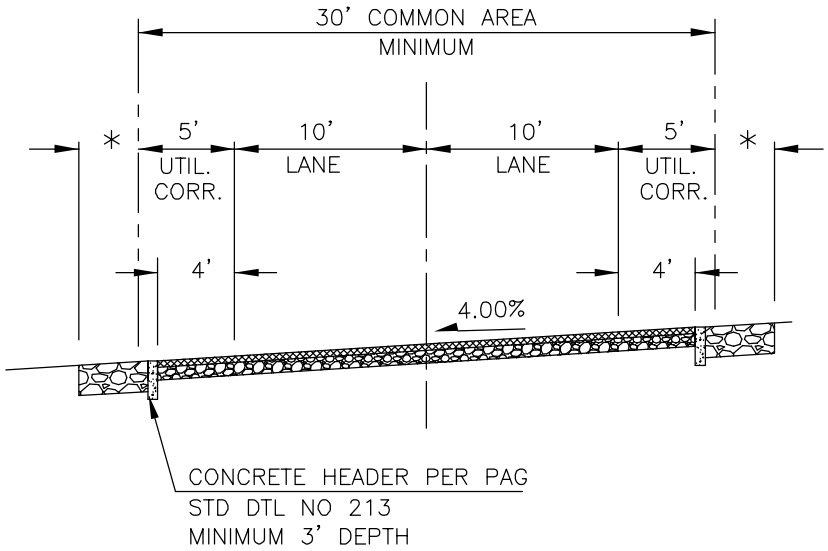
TOWN OF MARANA 1977 ARIZONA

STANDARD DETAIL		DETAIL NO:
MINOR COLLECTOR		100-5
DATE: 3/4/2004	REVISED: 6/21/2016	SHEET 1 OF 1

NORMAL STREET SECTION



DIP CROSSING/DRAINAGE OUTLET



* DRAINAGE EASEMENT AND RIP RAP AS APPROPRIATE

1. FOR SUBDIVISIONS THAT FALL UNDER SMALL SUBDIVISION OF 10 LOTS OR LESS
2. MINIMUM LOT SIZE IN SUBDIVISION MUST BE 36,000 SF
3. STREET CROSS SLOPE TO ALIGN WITH NATURAL FALL OF LAND
4. ALL WEATHER ACCESS TO BE MAINTAINED
5. SECTION DOES NOT SUPPORT ON STREET PARKING

NOT TO SCALE

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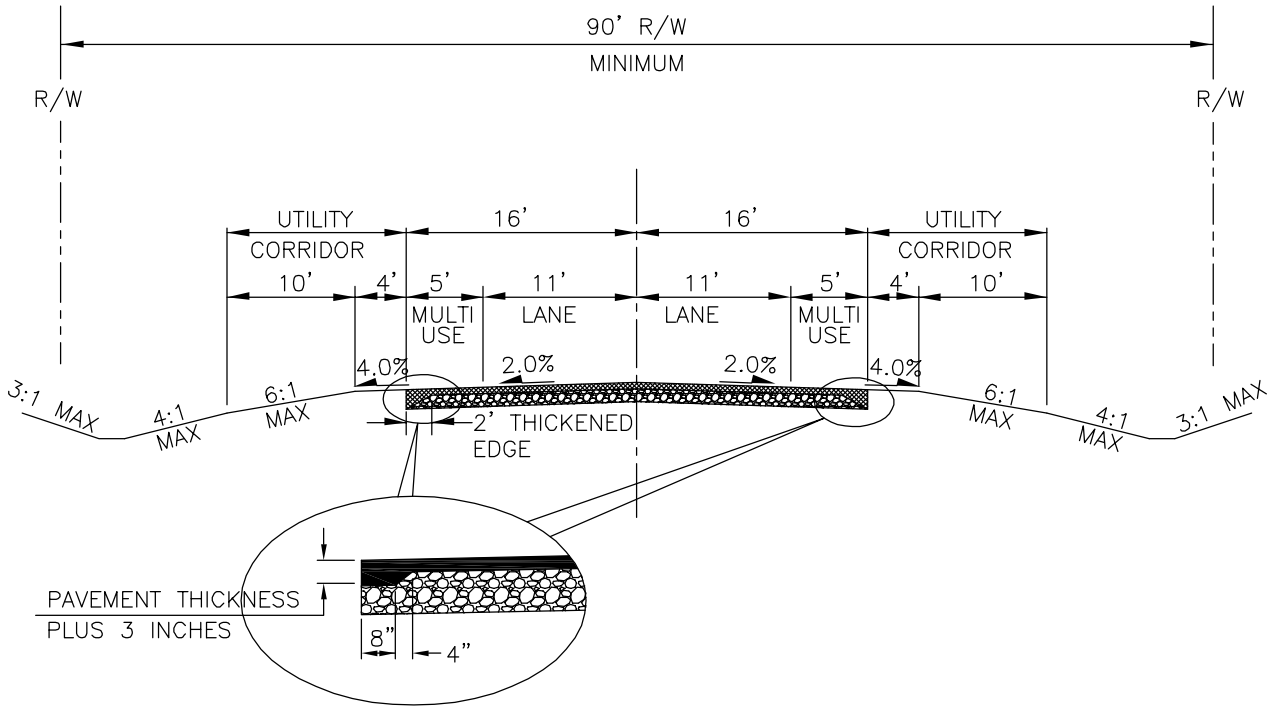
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Town Engineer

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TOWN OF MARANA 1977 ARIZONA

STANDARD DETAIL		DETAIL NO:
SMALL RURAL SUBDIVISION STREET		100-6
DATE: 2/16/2007	REVISED: 6/21/2016	SHEET 1 OF 1



1. RIGHT OF WAY WIDTHS FROM THE MAJOR ROUTES RIGHT OF WAY PLAN SUPERCEDE RIGHT OF WAY WIDTHS SHOWN ON THIS STANDARD

NOT TO SCALE

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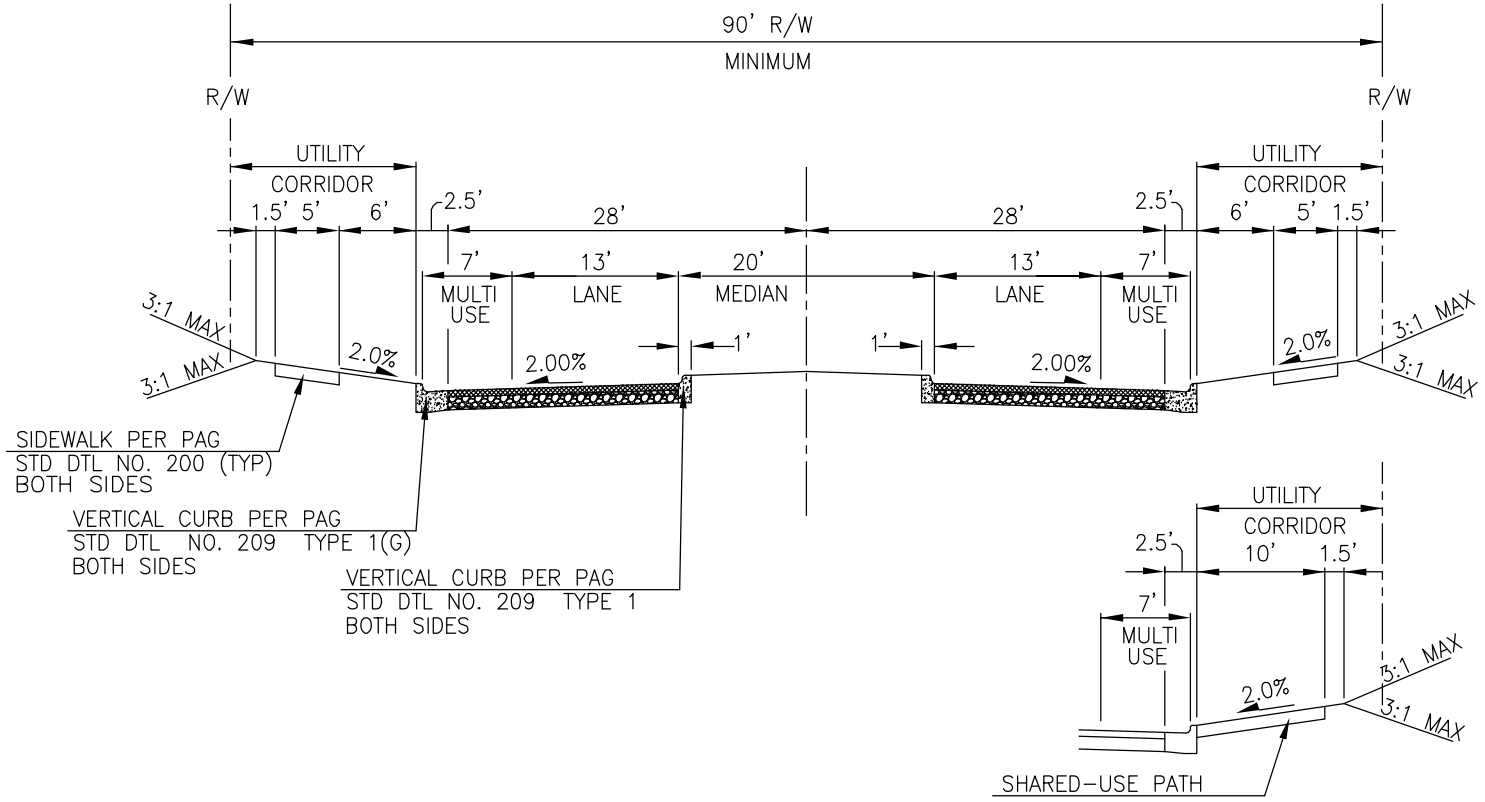
Keith E. Brann, P.E.,
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TOWN OF MARANA 1977 ARIZONA

STANDARD DETAIL		DETAIL NO:
2-LANE RURAL COLLECTOR		110-1
DATE: 2/16/2007	REVISED: 6/21/2016	SHEET 1 OF 1



ALTERNATE SHARED-USE PATH

1. RIGHT OF WAY WIDTHS FROM THE MAJOR ROUTES RIGHT OF WAY PLAN SUPERCEDE RIGHT OF WAY WIDTHS SHOWN ON THIS STANDARD

NOT TO SCALE

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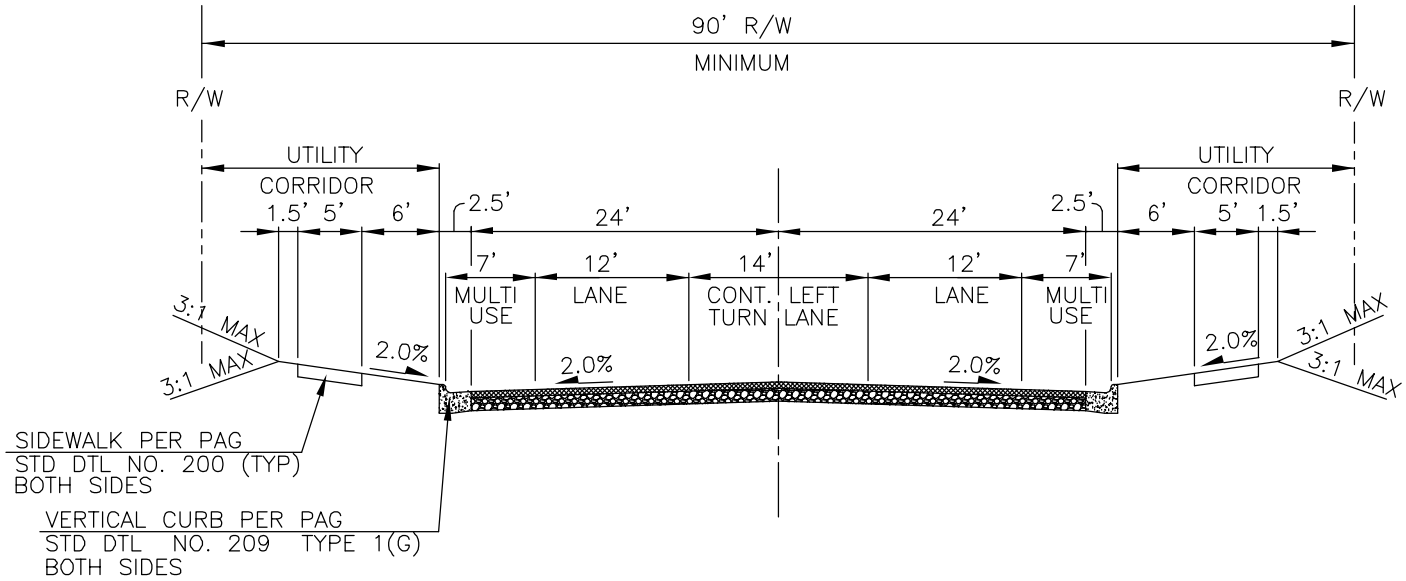
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TOWN OF MARANA 1977 ARIZONA

STANDARD DETAIL		DETAIL NO:
2-LANE URBAN COLLECTOR MEDIAN		110-2
DATE: 2/16/2007	REVISED: 6/21/2016	SHEET 1 OF 1



1. RIGHT OF WAY WIDTHS FROM THE MAJOR ROUTES RIGHT OF WAY PLAN SUPERCEDE RIGHT OF WAY WIDTHS SHOWN ON THIS STANDARD

NOT TO SCALE

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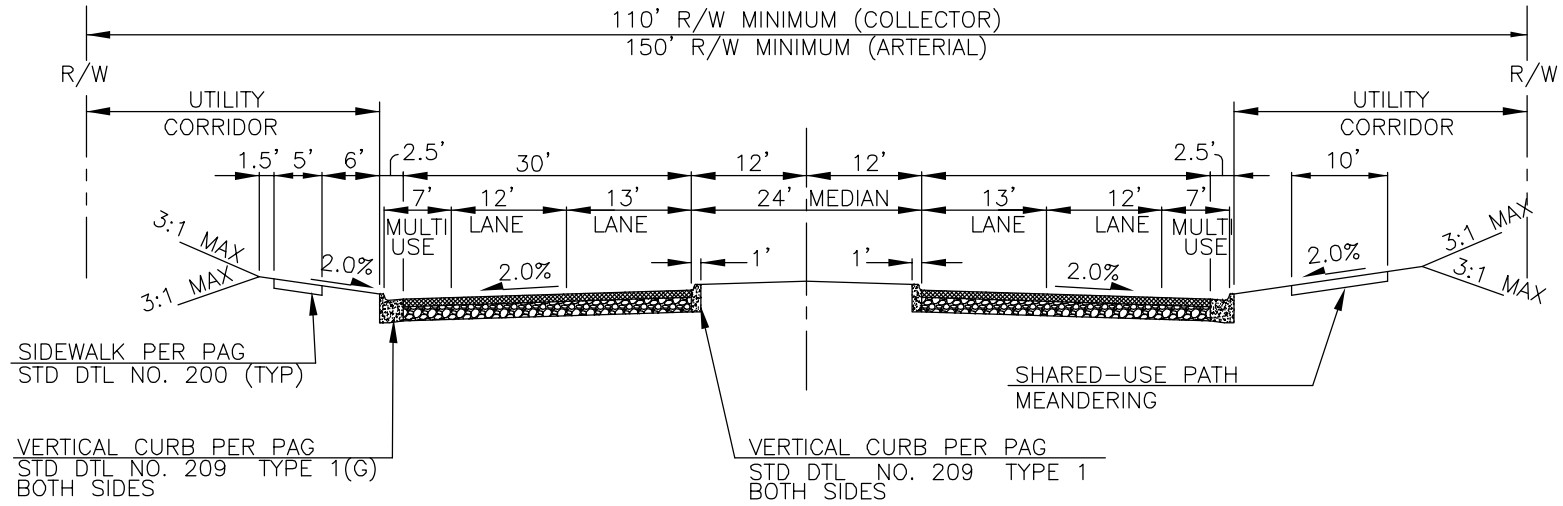
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TOWN OF MARANA 1977 ARIZONA

STANDARD DETAIL		DETAIL NO:
2-LANE URBAN COLLECTOR CONTINUOUS LEFT TURN LANE		110-3
DATE: 2/16/2007	REVISED: 6/21/2016	SHEET 1 OF 1



1. RIGHT OF WAY WIDTHS FROM THE MAJOR ROUTES RIGHT OF WAY PLAN SUPERCEDE RIGHT OF WAY WIDTHS SHOWN ON THIS STANDARD
2. ARTERIALS IN URBAN SETTINGS MAY UTILIZE SIDEWALK ON BOTH SIDES OF ROADWAY

NOT TO SCALE

APPROVED FOR DISTRIBUTION:

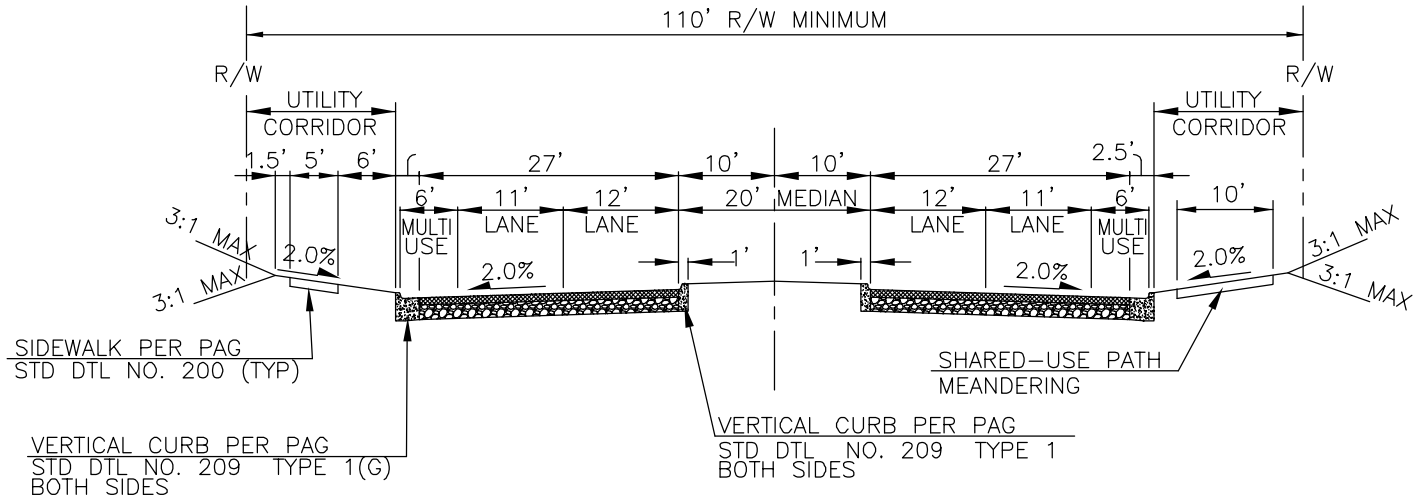
Keith E. Brann, P.E.,
Town Engineer

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Registered Professional Engineer (Civil) CERTIFICATE NO. 40845 KEITH EDWARD BRANN Date Signed 1-10-14 ARIZONA, U.S.A.

TOWN OF MARANA 1777 ARIZONA

STANDARD DETAIL		DETAIL NO:
4-LANE COLLECTOR OR ARTERIAL		120-1
DATE: 2/16/2007	REVISED: 6/21/2016	SHEET 1 OF 2



1. ENVIRONMENTALLY SENSITIVE DESIGN FOR USE AT TOWN OF MARANA DIRECTION ONLY
2. RIGHT OF WAY WIDTH OF 110 FEET MAY SUPPLANT RIGHT OF WAY WIDTH FROM MAJOR ROUTES RIGHT OF WAY PLAN (ROADWAY PORTION)

NOT TO SCALE

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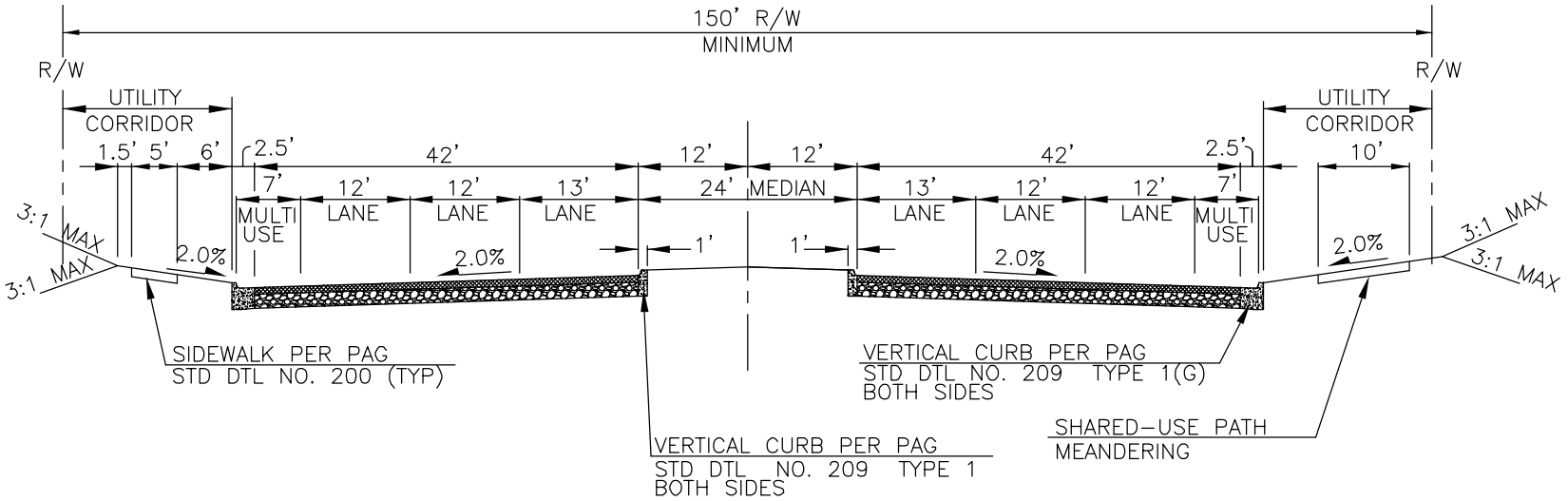
Keith E. Brann, P.E.,
Town Engineer

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Registered Professional Engineer (Civil) CERTIFICATE NO. 40845 KEITH EDWARD BRANN Date Signed 1-10-14 ARIZONA, U.S.A.

TOWN OF MARANA 1917 ARIZONA

STANDARD DETAIL		DETAIL NO:
4-LANE COLLECTOR OR ARTERIAL		120-1
DATE: 2/16/2007	REVISED: 6/21/2016	SHEET 2 OF 2



1. RIGHT OF WAY WIDTHS FROM THE MAJOR ROUTES RIGHT OF WAY PLAN SUPERCEDE RIGHT OF WAY WIDTHS SHOWN ON THIS STANDARD
2. ARTERIALS IN URBAN SETTINGS MAY UTILIZE SIDEWALK ON BOTH SIDES OF ROADWAY

NOT TO SCALE

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Town Engineer

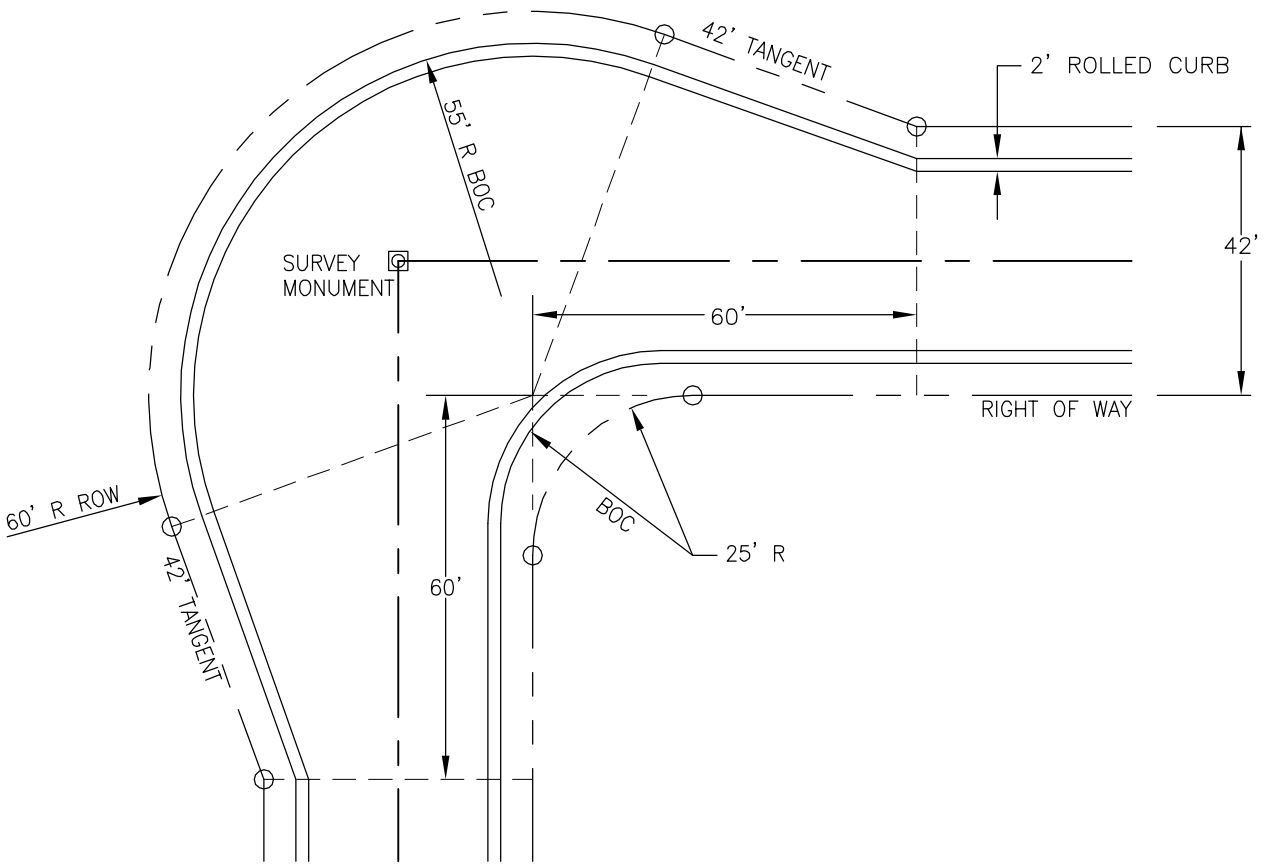
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TOWN OF MARANA 1977 ARIZONA

STANDARD DETAIL		DETAIL NO:
6-LANE ARTERIAL		120-2
DATE: 2/16/2007	REVISED: 6/21/2016	SHEET 1 OF 1

Marana Regular Council Meeting 06/21/2016



1. THIS DETAIL SUPERSEDES PRIOR SUBDIVISION STREET STANDARDS DETAIL NUMBER 11B
2. DETAIL IS BASED ON STANDARD STREET SECTION 100-1 AND A 90° INTERSECTION, MAY NEED TO BE MODIFIED FOR DIFFERENT SCENARIOS
3. HANDICAP RAMPS ARE NOT TO BE INSTALLED AT EYEBROW KNUCKLE

NOT TO SCALE

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Town Engineer

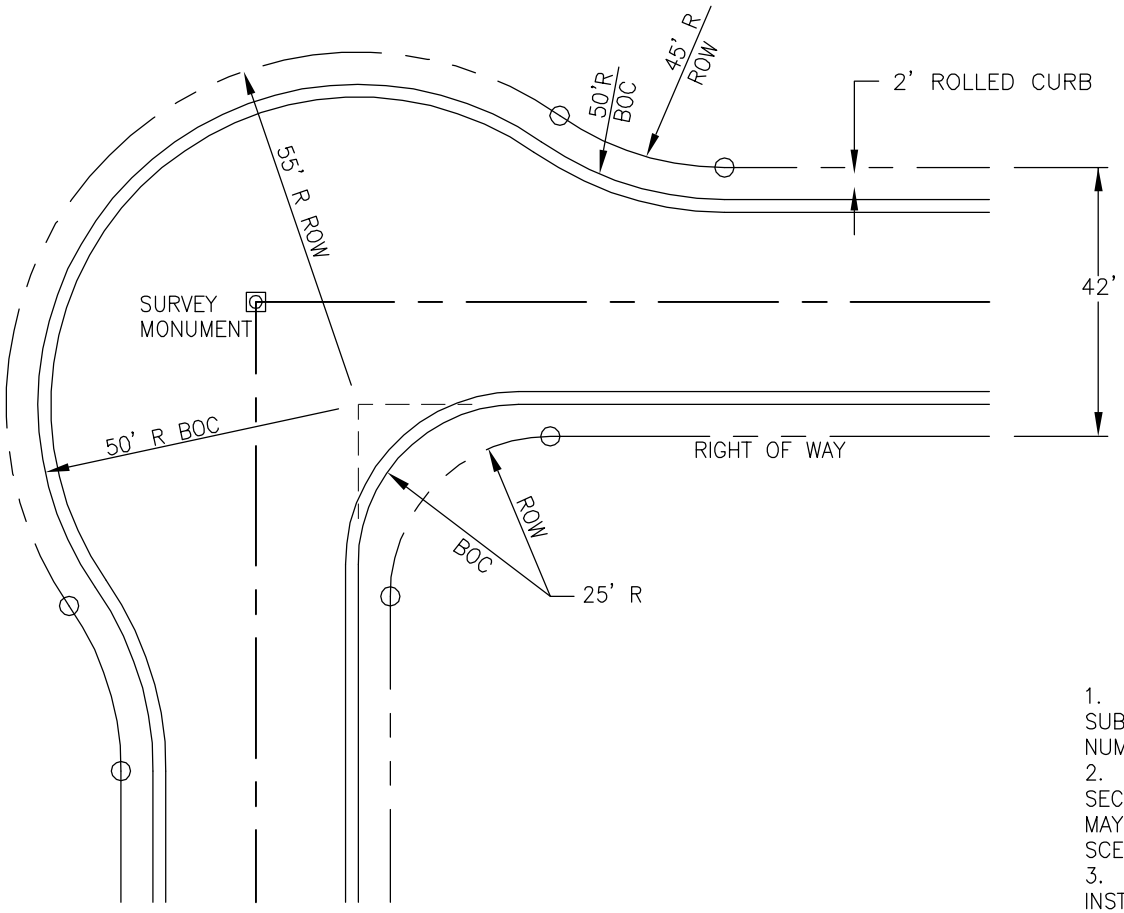
EXPIRES 6/30/2019

Registered Professional Engineer (Civil) CERTIFICATE NO. 40845 KEITH EDWARD BRANN Date Signed 1-10-14 ARIZONA, U.S.A.

TOWN OF MARANA 19 77 ARIZONA

STANDARD DETAIL		DETAIL NO:
EYEBROW KNUCKLE		170-1
DATE: 3/4/2004	REVISED: 6/21/2016	SHEET 1 OF 1

Marana Regular Council Meeting 06/21/2016



1. THIS DETAIL SUPERSEDES PRIOR SUBDIVISION STREET STANDARDS DETAIL NUMBER 11A
2. DETAIL IS BASED ON STANDARD STREET SECTION 100-1 AND A 90° INTERSECTION, MAY NEED TO BE MODIFIED FOR DIFFERENT SCENARIOS
3. HANDICAP RAMPS ARE NOT TO BE INSTALLED AT EYEBROW CUL-DE-SAC

NOT TO SCALE

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Town Engineer

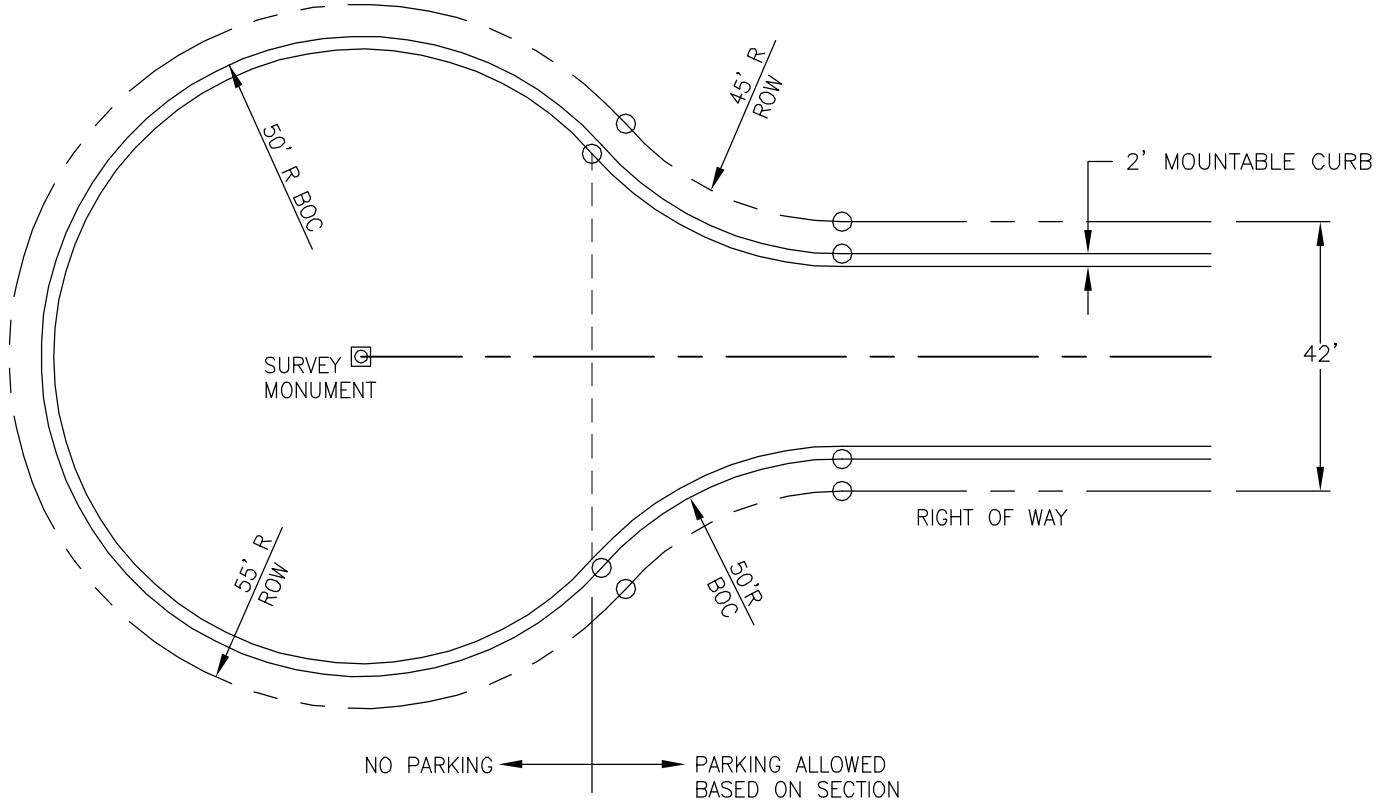
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TOWN OF MARANA 1977 ARIZONA

STANDARD DETAIL		DETAIL NO:
EYEBROW CUL-DE-SAC		170-2
DATE: 3/4/2004	REVISED: 6/21/2016	SHEET 1 OF 1

1. THIS DETAIL SUPERSEDES PRIOR SUBDIVISION STREET STANDARDS DETAIL NUMBER 7
2. DETAIL IS BASED ON STANDARD STREET SECTION 100–1, MAY NEED TO BE MODIFIED FOR DIFFERENT STREET SECTIONS



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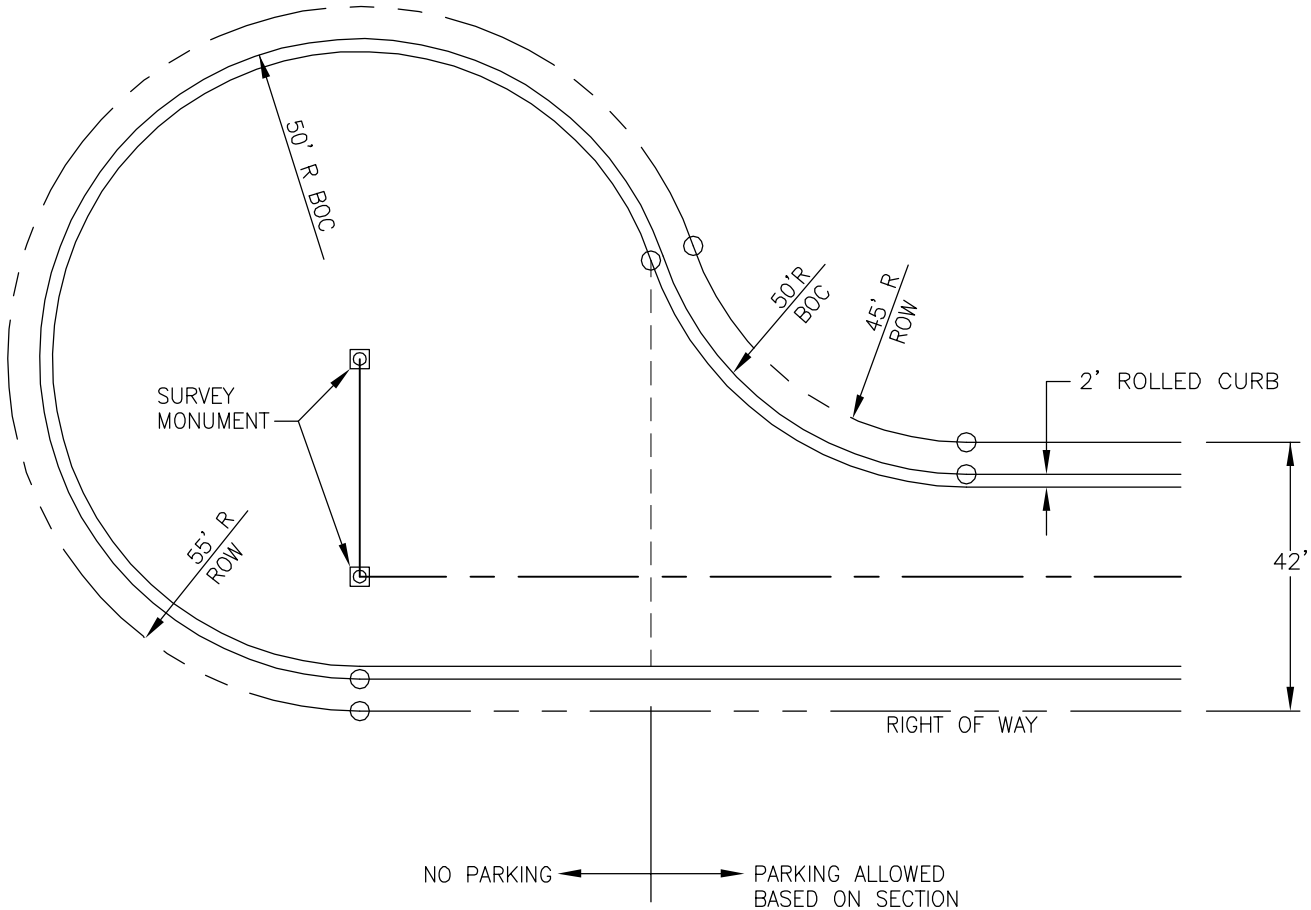
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TOWN OF MARANA 19 77 ARIZONA

STANDARD DETAIL		DETAIL NO:
STANDARD CUL–DE–SAC		170–3
DATE: 3/4/2004	REVISED: 6/21/2016	SHEET 1 OF 1

1. THIS DETAIL SUPERSEDES PRIOR SUBDIVISION STREET STANDARDS DETAIL NUMBER 8
2. DETAIL IS BASED ON STANDARD STREET SECTION 100–1, MAY NEED TO BE MODIFIED FOR DIFFERENT STREET SECTIONS



NOT TO SCALE

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EXPIRES 6/30/2019

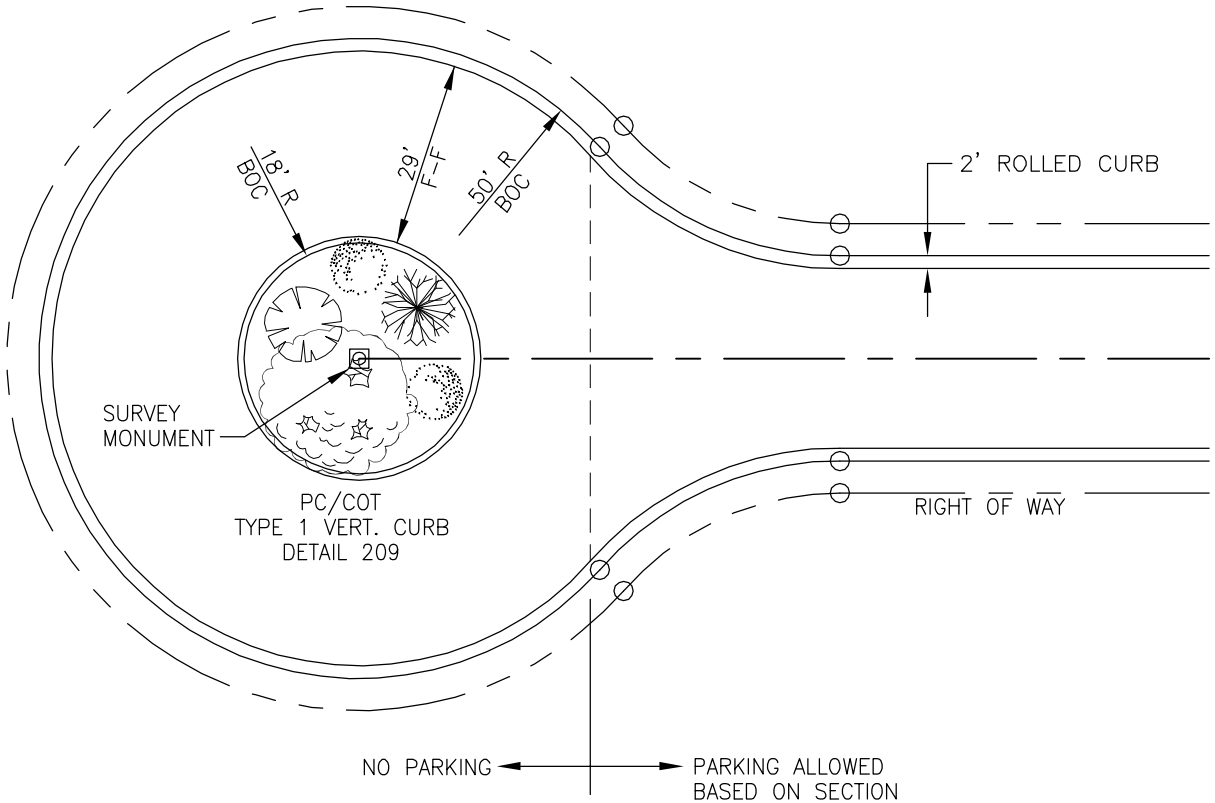
Registered Professional Engineer (Civil) CERTIFICATE NO. 40845 KEITH EDWARD BRANN Date Signed 1-10-14 ARIZONA, U.S.A.

TOWN OF MARANA 1977 ARIZONA

STANDARD DETAIL		DETAIL NO:
OFFSET CUL–DE–SAC		170–4
DATE: 3/4/2004	REVISED: 6/21/2016	SHEET 1 OF 1

Marana Regular Council Meeting 06/21/2016

1. THIS DETAIL SUPERSEDES PRIOR SUBDIVISION STREET STANDARDS DETAIL NUMBER 9
2. DETAIL IS BASED ON STANDARD STREET SECTION 100–1, MAY NEED TO BE MODIFIED FOR DIFFERENT STREET SECTIONS
3. FOR REMAINING DIMENSIONS REFER TO DETAIL 170–3
4. LANDSCAPE MATERIALS MUST BE SELECTED AND PLACED SO AS NOT TO INTERFERE WITH DRIVERS' VISIBILITY WITHIN THE MEDIAN BY TWO HORIZONTAL LINES LOCATED 30" AND 72" ABOVE FINISHED GRADE OF THE ROADWAY SURFACE
5. LANDSCAPING/VEGETATION INSTALLED BY THE DEVELOPER/HOMEOWNER'S ASSOCIATION SHALL NOT BE MAINTAINED BY THE TOWN OF MARANA. A LICENSE AGREEMETN MUST BE EXECUTED AND APPROVED BY THE TOWN ENGINEER PRIOR TO CONSTRUCTION.



NOT TO SCALE

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Town Engineer

EXPIRES 6/30/2019

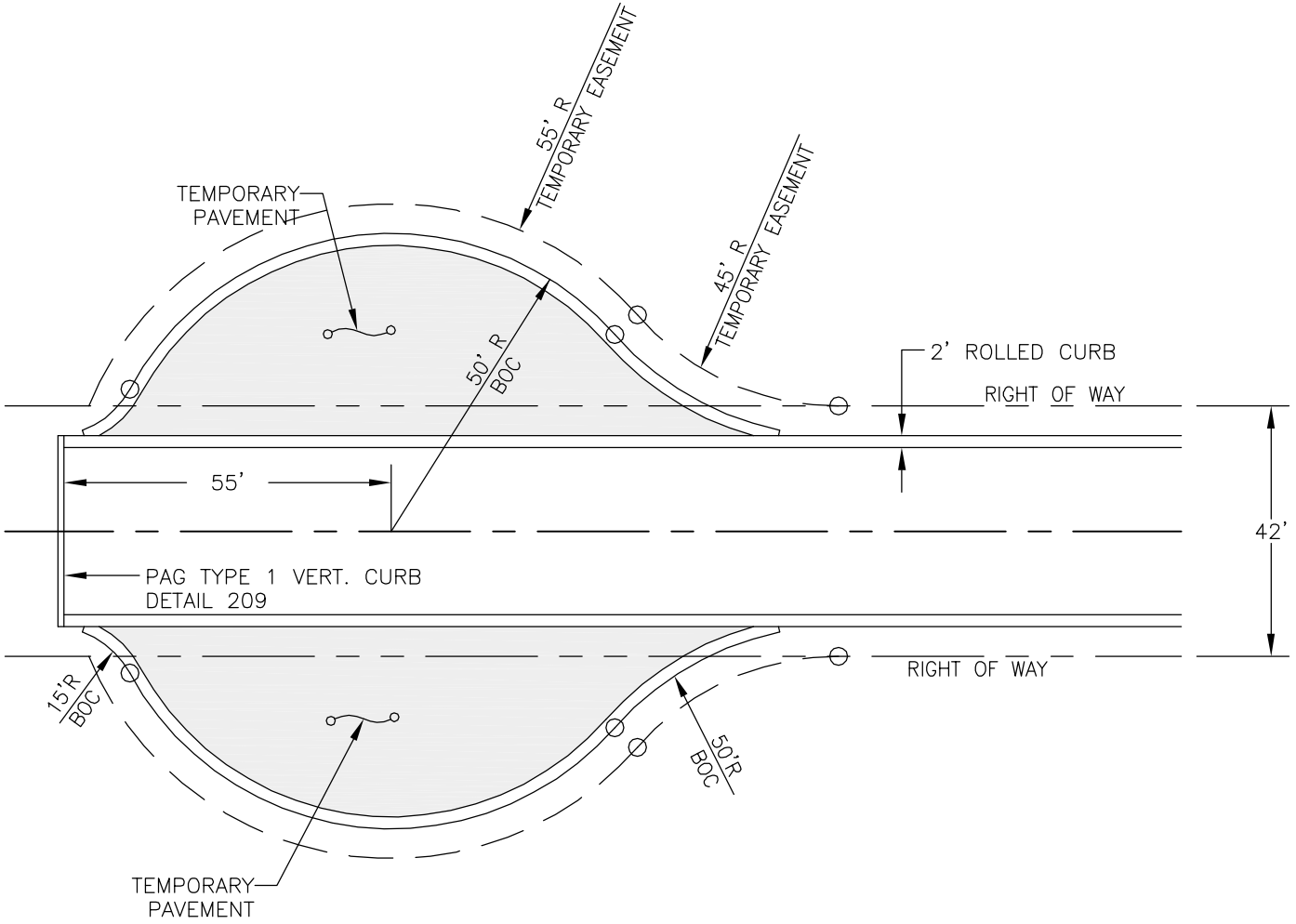
Registered Professional Engineer (Civil) CERTIFICATE NO. 40845 KEITH EDWARD BRANN Date Signed 1-10-14 ARIZONA, U.S.A.

TOWN OF MARANA 1977 ARIZONA

STANDARD DETAIL		DETAIL NO:
LANDSCAPED CUL–DE–SAC		170–5
DATE: 3/4/2004	REVISED: 6/21/2016	SHEET 1 OF 1

Page 176 of 298
Marana Regular Council Meeting 06/21/2016

1. THIS DETAIL SUPERSEDES PRIOR SUBDIVISION STREET STANDARDS DETAIL NUMBER 7
2. DETAIL IS BASED ON STANDARD STREET SECTION 100–1, MAY NEED TO BE MODIFIED FOR DIFFERENT STREET SECTIONS
3. ULTIMATE CURB AND STREET SECTION TO BE CONSTRUCTED.
4. TEMPORARY PAVEMENT TO BE OF SAME THICKNESS AS PERMANENT PAVEMENT. TEMPORARY CURB MAY BE MOUNTABLE CURB OR HEADER CURB.
5. DEAD END STREET SIGNAGE AND POST BARRICADES PER STREET STANDARDS TO BE INSTALLED.



NOT TO SCALE

APPROVED FOR DISTRICTION:

Keith E. Brann, P.E.,
Town Engineer

EXPIRES 6/30/2019

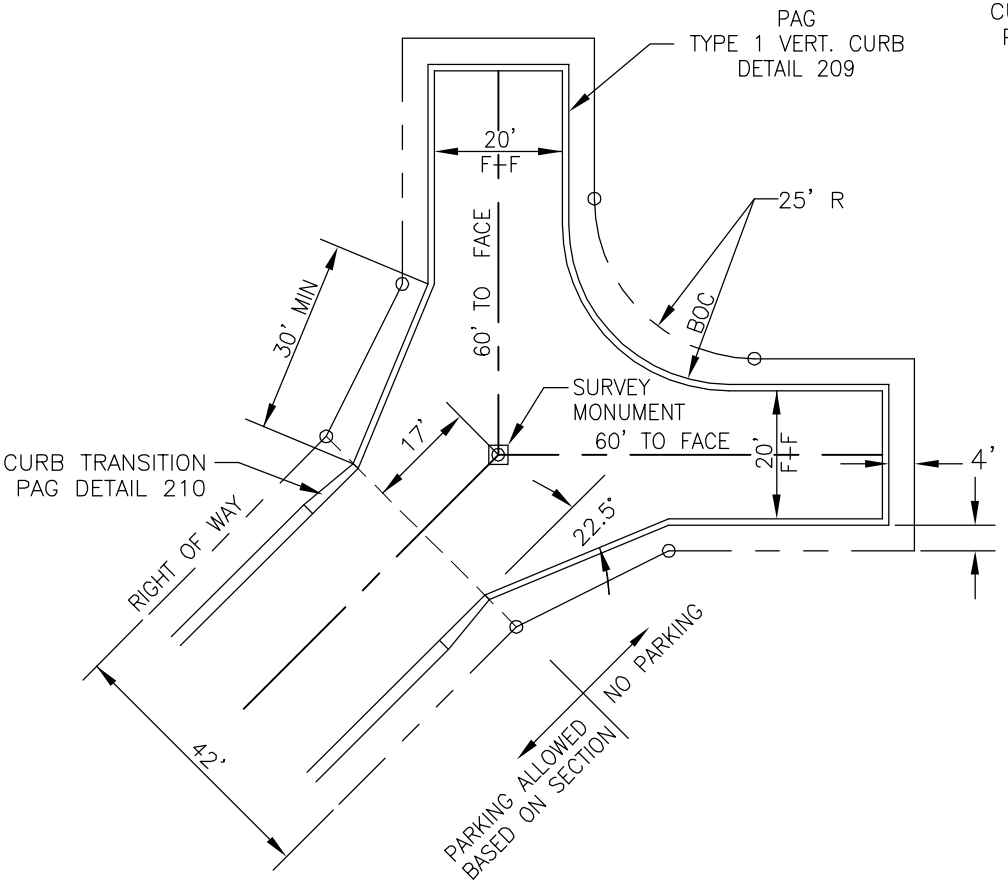
Registered Professional Engineer (Civil) CERTIFICATE NO. 40845 KEITH EDWARD BRANN Date Signed 1-10-14 ARIZONA, U.S.A.

TOWN OF MARANA ARIZONA 1977

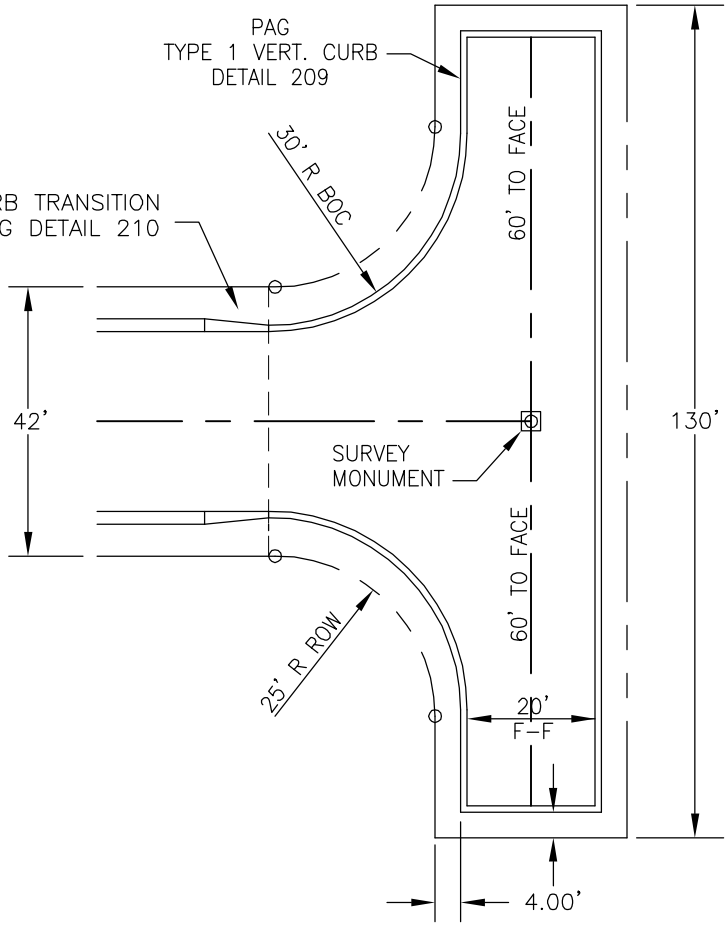
STANDARD DETAIL		DETAIL NO:
TEMPORARY CUL-DE-SAC		170-6
DATE: 3/4/2004	REVISED: 6/21/16	SHEET 1 OF 1

Page 177 of 298
Marana Regular Council Meeting 06/21/2016

1. THIS DETAIL SUPERSEDES PRIOR SUBDIVISION STREET STANDARDS DETAIL NUMBER 12
2. DETAIL IS BASED ON STANDARD STREET SECTION 100–1, MAY NEED TO BE MODIFIED FOR DIFFERENT STREET SECTIONS



"Y" TURNAROUND



"T" TURNAROUND

NOT TO SCALE

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Keith E. Brann, P.E.,
Town Engineer

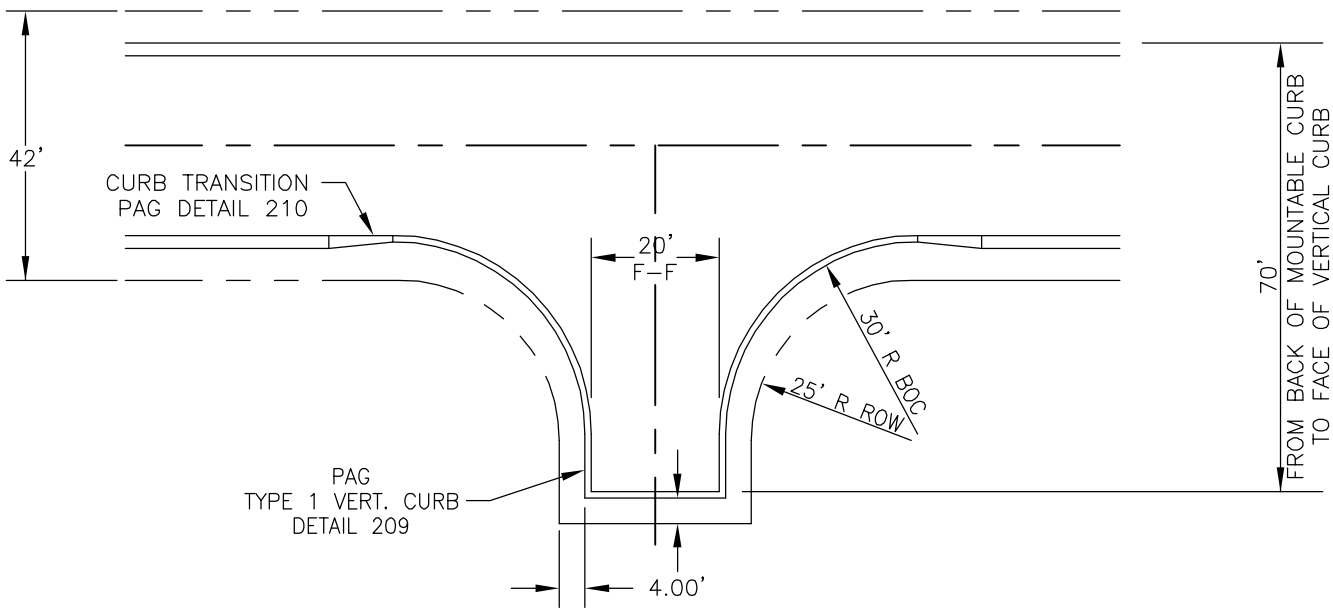
EXPIRES 6/30/2019

Registered Professional Engineer (Civil) CERTIFICATE NO. 40845 KEITH EDWARD BRANN Date Signed 1-10-14 ARIZONA, U.S.A.

TOWN OF MARANA 19 77 ARIZONA

STANDARD DETAIL		DETAIL NO:
TURNAROUNDS		170–7
DATE: 3/4/2004	REVISED: 6/21/2016	SHEET 1 OF 2

1. DETAIL IS BASED ON STANDARD STREET SECTION 100–1, MAY NEED TO BE MODIFIED FOR DIFFERENT STREET SECTIONS



MID–BLOCK TURNAROUND

NOT TO SCALE

APPROVED FOR DISTRIBUTION:

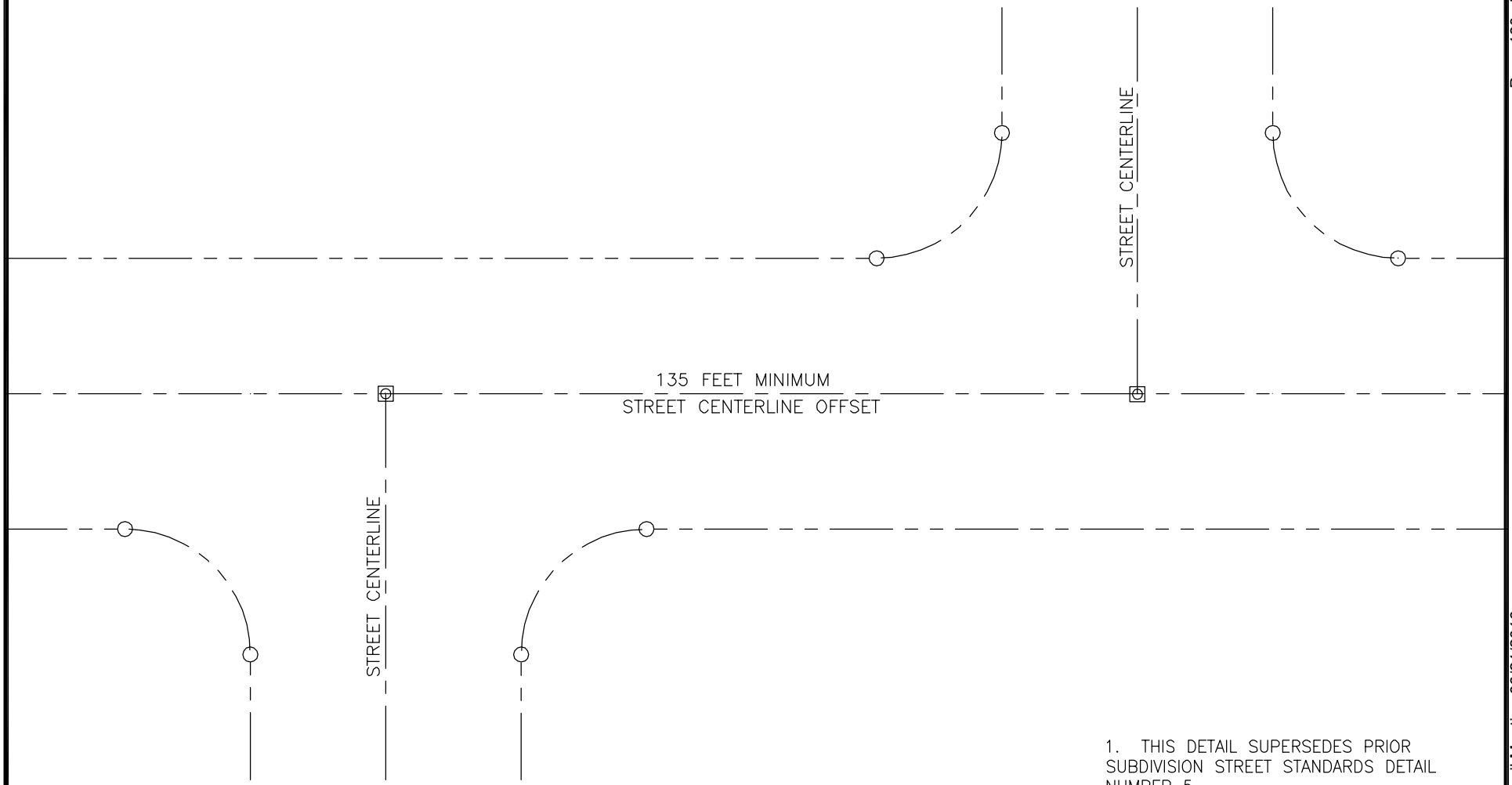
Keith E. Brann, P.E.,
Town Engineer

EXPIRES 6/30/2019

Registered Professional Engineer (Civil) CERTIFICATE NO. 40845 KEITH EDWARD BRANN Date Signed 1-10-14 ARIZONA, U.S.A.

TOWN OF MARANA 1977 ARIZONA

STANDARD DETAIL		DETAIL NO:
TURNAROUNDS		170–7
DATE: 3/4/2004	REVISED: 6/21/2016	SHEET 2 OF 2



1. THIS DETAIL SUPERSEDES PRIOR SUBDIVISION STREET STANDARDS DETAIL NUMBER 5

NOT TO SCALE

APPROVED FOR DISTRIBUTION:

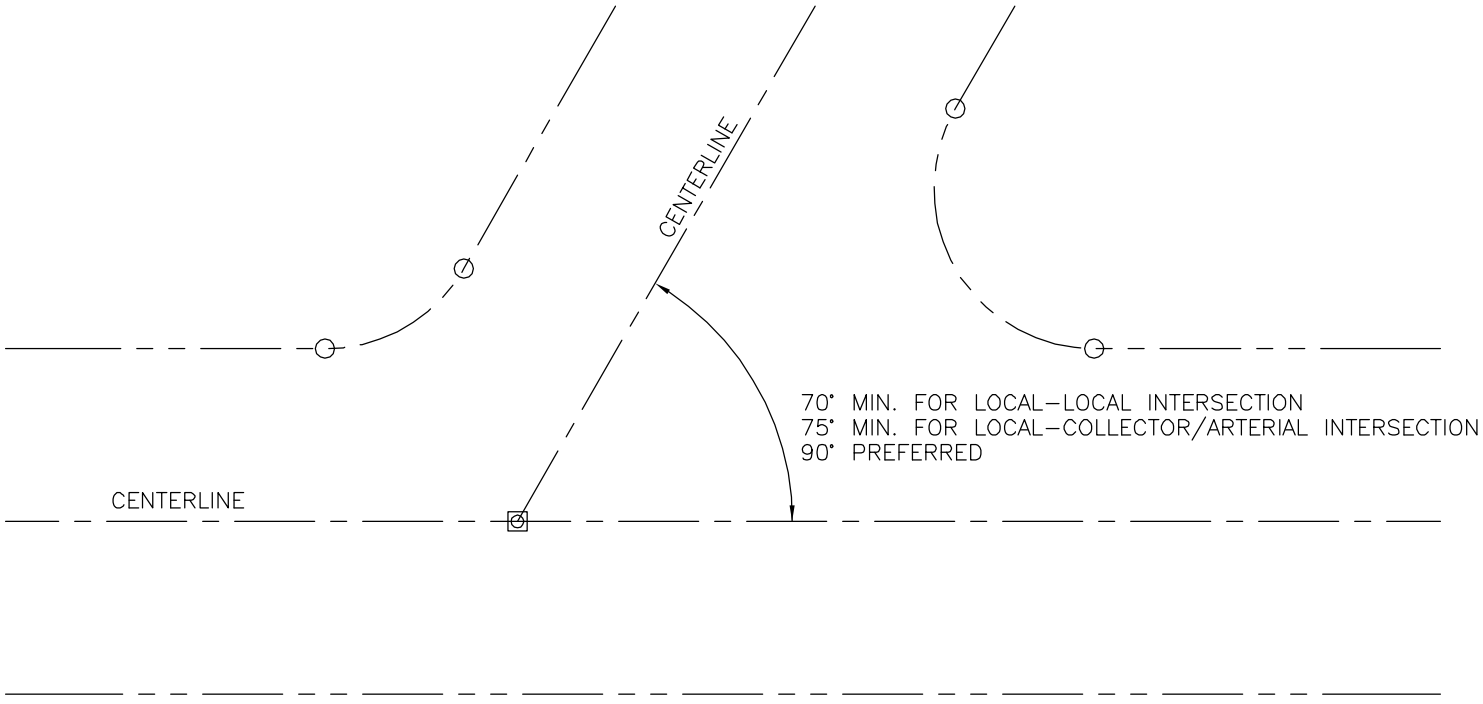
Keith E. Brann, P.E.,
Town Engineer

EXPIRES 6/30/2019

Registered Professional Engineer (Civil) CERTIFICATE NO. 40845 KEITH EDWARD BRANN Date Signed 1-10-14 ARIZONA, U.S.A.

TOWN OF MARANA 1977 ARIZONA

STANDARD DETAIL		DETAIL NO:
LOCAL STREET JOGS		190-1
DATE: 3/4/2004	REVISED: 6/21/2016	SHEET 1 OF 1



1. THIS DETAIL SUPERSEDES PRIOR SUBDIVISION STREET STANDARDS DETAIL NUMBER 6

NOT TO SCALE

APPROVED FOR DISTRIBUTION:

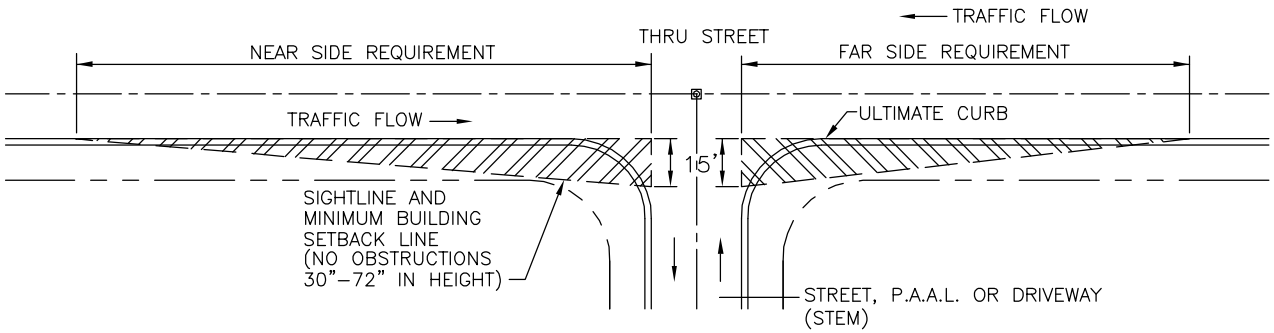
Keith E. Brann, P.E.,
Town Engineer

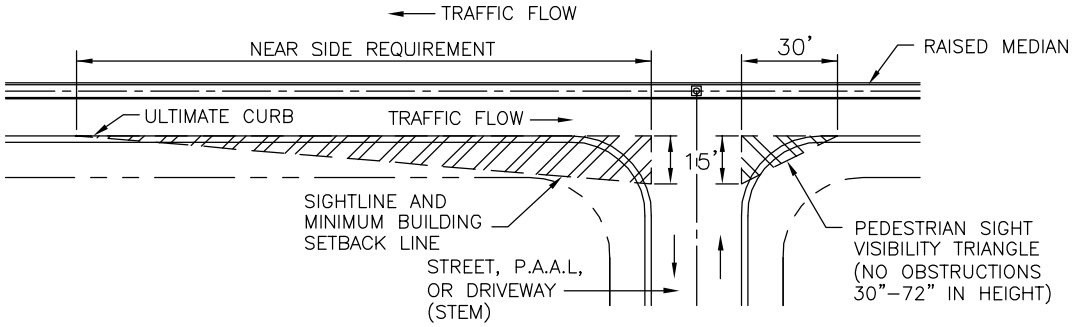
EXPIRES 6/30/2019

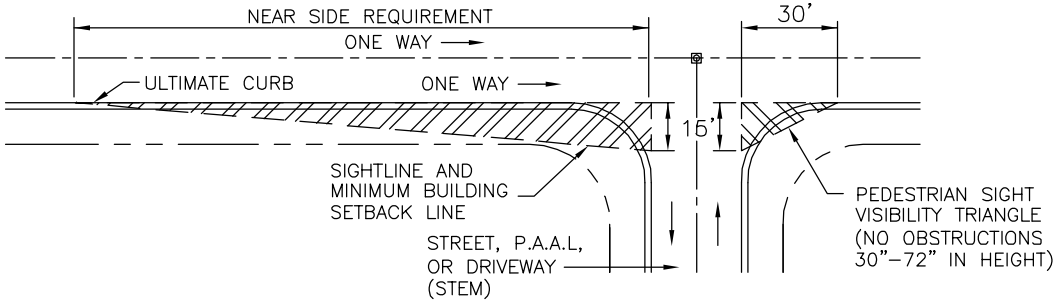
Registered Professional Engineer (Civil) CERTIFICATE NO. 40845 KEITH EDWARD BRANN Date Signed 1-10-14 ARIZONA, U.S.A.

TOWN OF MARANA 1977 ARIZONA

STANDARD DETAIL		DETAIL NO:
LOCAL STREET INTERSECTIONS		190–2
DATE: 3/4/2004	REVISED: 6/21/2016	SHEET 1 OF 1







1. THIS DETAIL SUPERSEDES PRIOR SUBDIVISION STREET STANDARDS DETAIL NUMBER 13.

NOT TO SCALE

APPROVED FOR DISTRIBUTION:

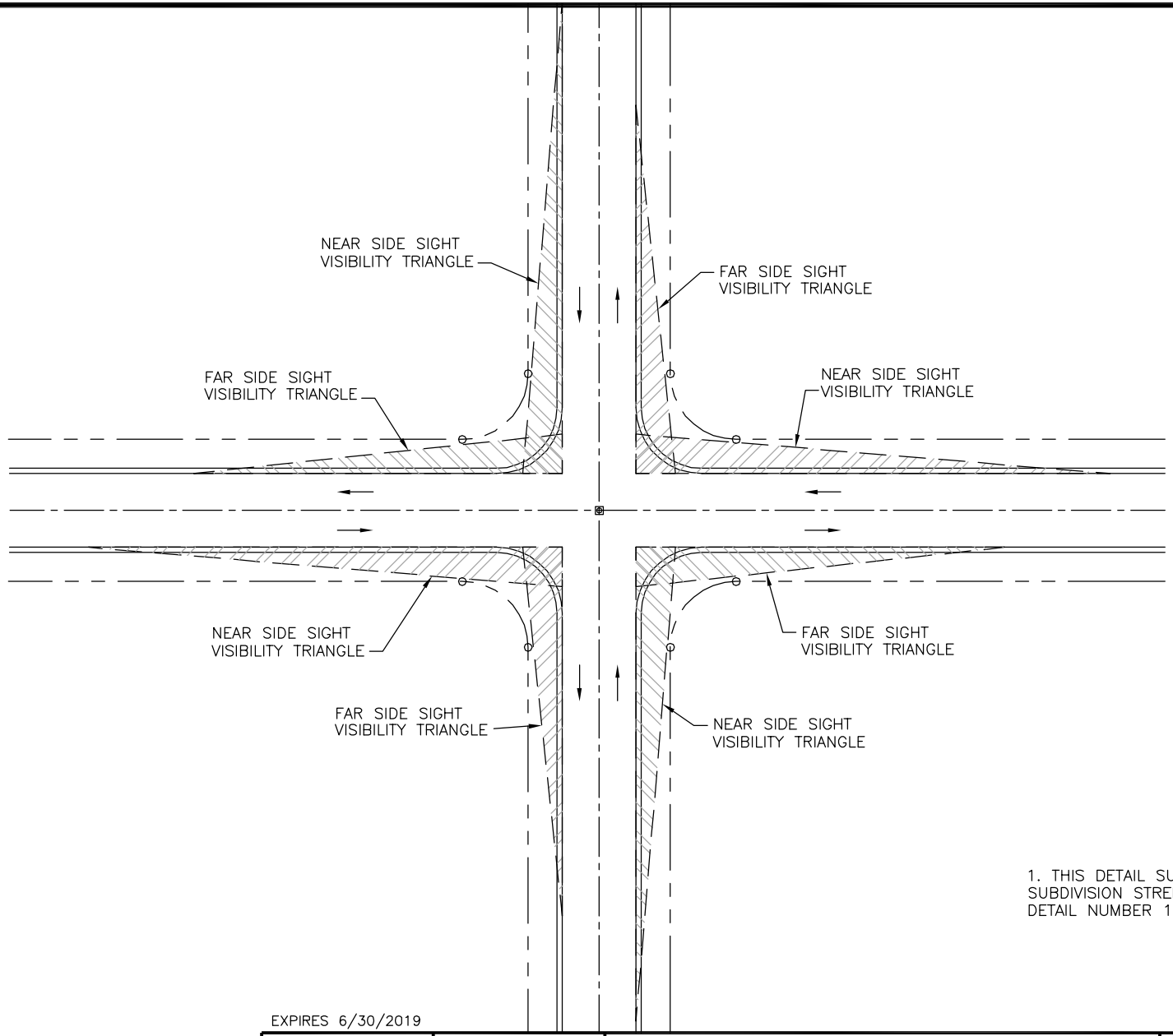
Keith E. Brann, P.E.,
Town Engineer

EXPIRES 6/30/2019

Registered Professional Engineer (Civil) CERTIFICATE NO. 40845 KEITH EDWARD BRANN Date Signed 1-10-14 ARIZONA, U.S.A.

TOWN OF MARANA 1977 ARIZONA

STANDARD DETAIL		DETAIL NO:
TYPICAL SIGHT VISIBILITY TRIANGLES		190–3
DATE: 3/4/2004	REVISED: 6/21/2016	SHEET 1 OF 3



1. THIS DETAIL SUPERSEDES PRIOR SUBDIVISION STREET STANDARDS DETAIL NUMBER 14.

NOT TO SCALE

APPROVED FOR DISTRIBUTION:

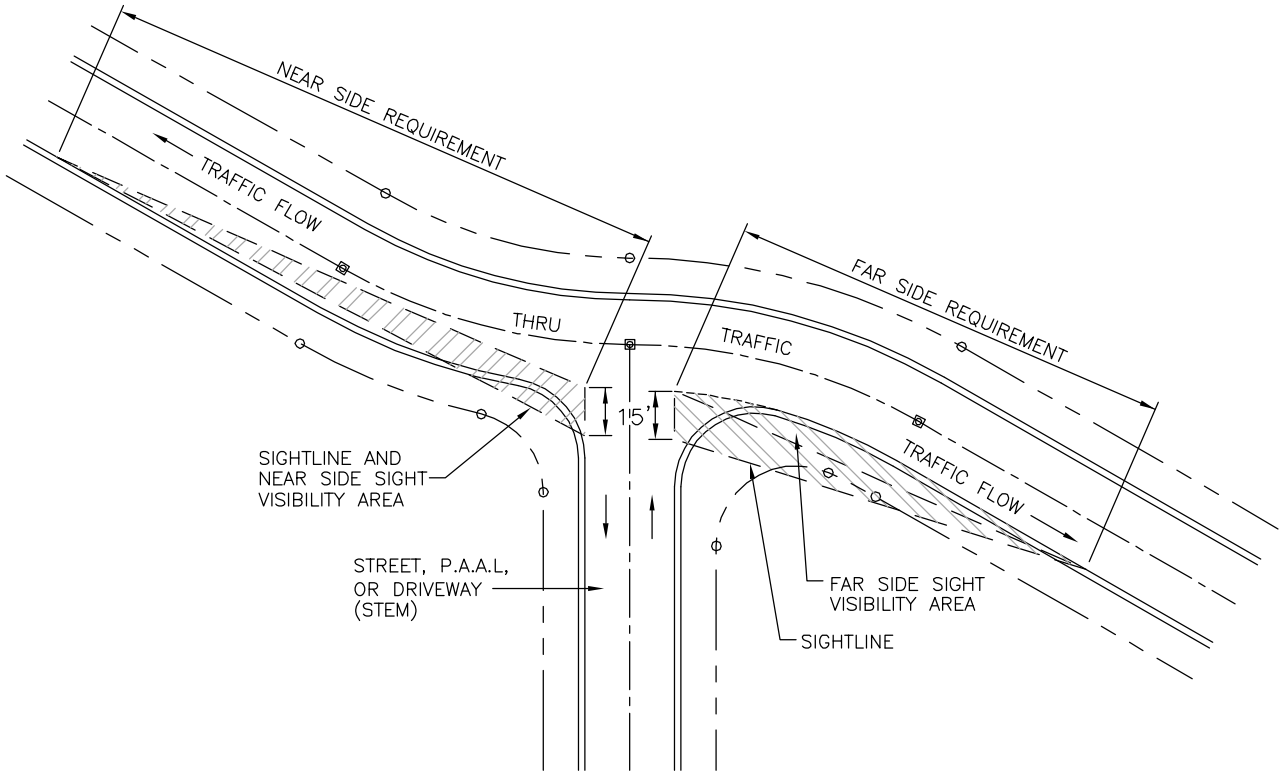
Keith E. Brann, P.E.,
Town Engineer

EXPIRES 6/30/2019

Registered Professional Engineer (Civil) CERTIFICATE NO. 40845 KEITH EDWARD BRANN Date Signed 1-10-14 ARIZONA, U.S.A.

TOWN OF MARANA 1977 ARIZONA

STANDARD DETAIL		DETAIL NO:
TYPICAL SIGHT VISIBILITY TRIANGLES		190-3
DATE: 3/4/2004	REVISED: 6/21/2016	SHEET 2 OF 3



1. THIS DETAIL SUPERSEDES PRIOR SUBDIVISION STREET STANDARDS DETAIL NUMBER 15.

NOT TO SCALE

APPROVED FOR DISTRIBUTION:

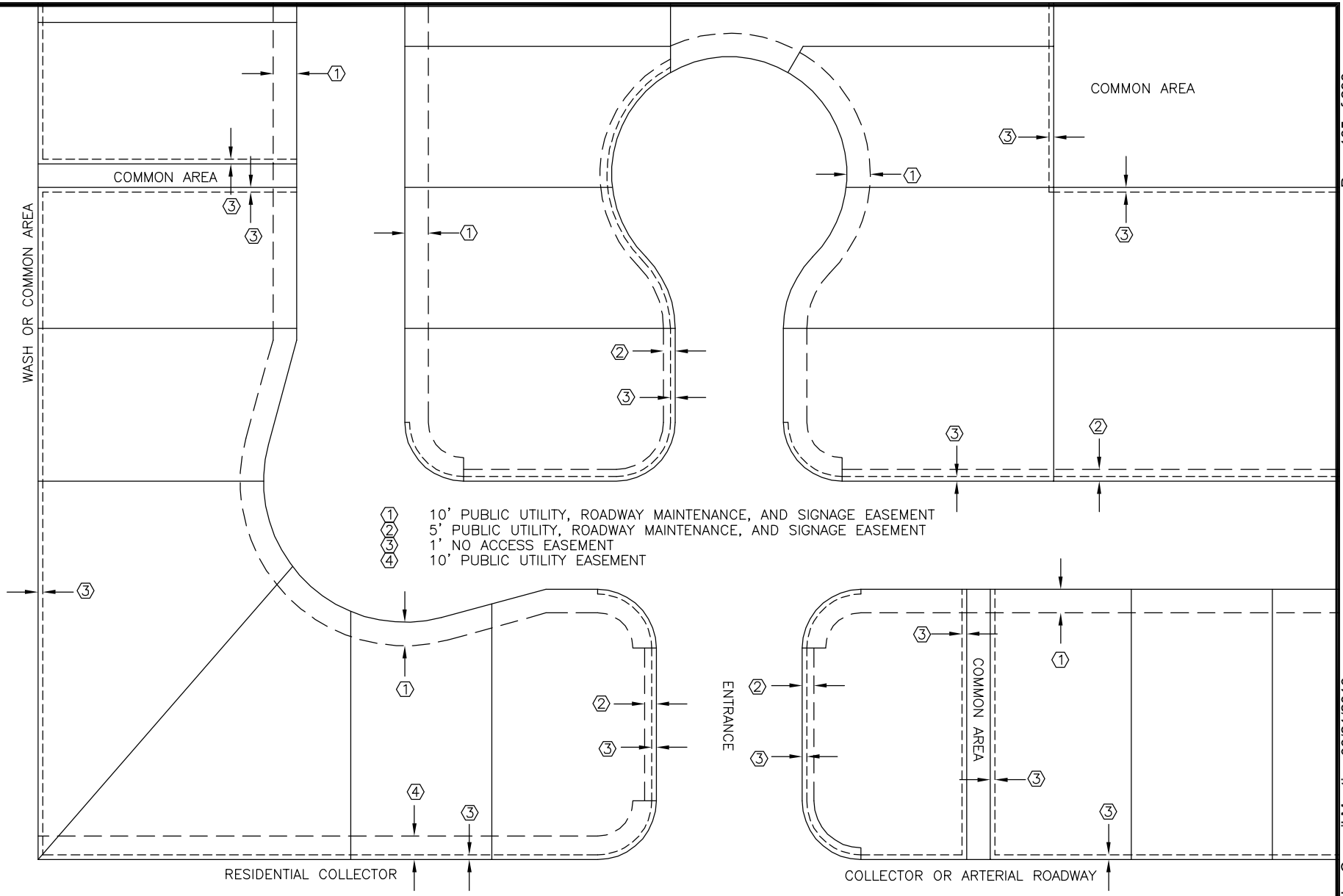
Keith E. Brann, P.E.,
Town Engineer

EXPIRES 6/30/2019

Registered Professional Engineer (Civil) CERTIFICATE NO. 40845 KEITH EDWARD BRANN Date Signed 1-10-14 ARIZONA, U.S.A.

TOWN OF 19 MARANA 77 ARIZONA

STANDARD DETAIL		DETAIL NO:
TYPICAL SIGHT VISIBILITY TRIANGLES		190-3
DATE: 3/4/2004	6/21/2016	SHEET 3 OF 3



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Town Engineer

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TOWN OF MARANA 19 77 ARIZONA

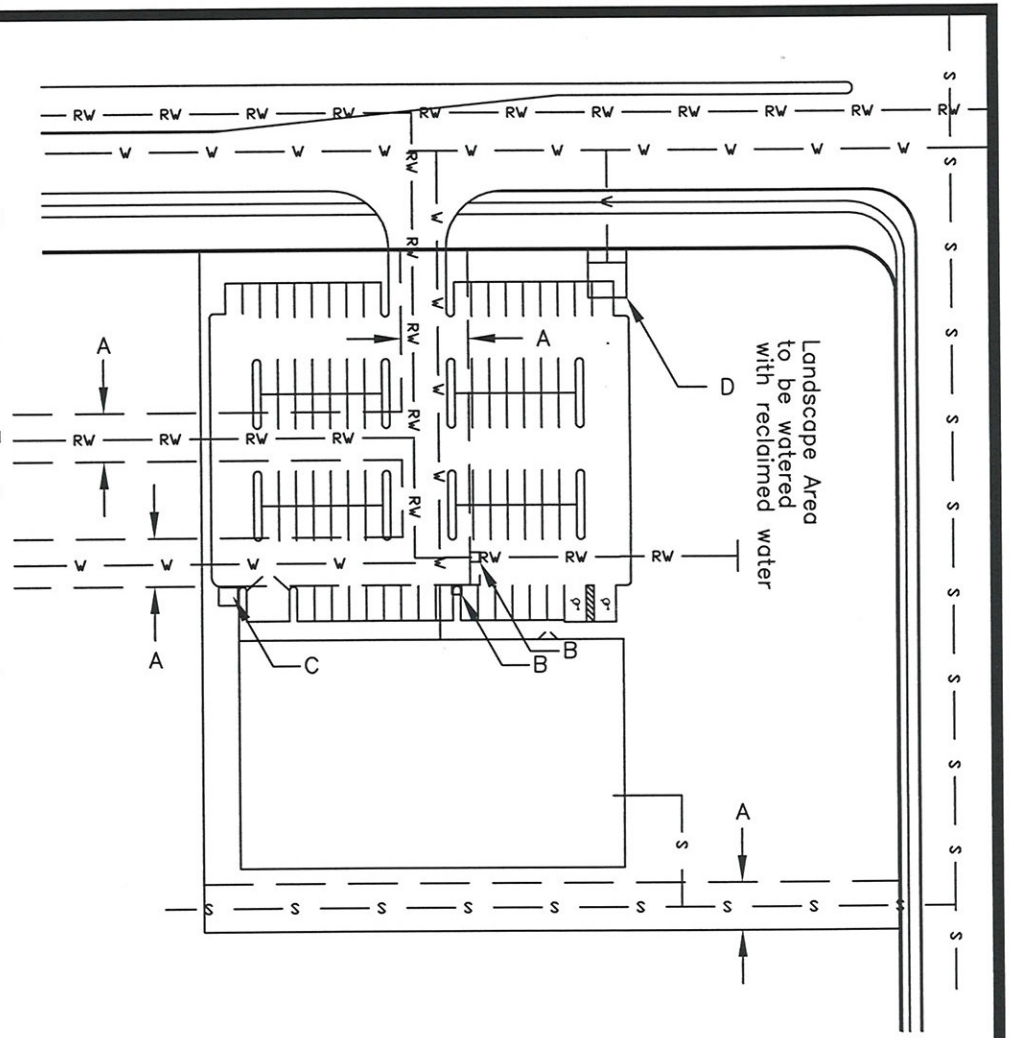
STANDARD DETAIL		DETAIL NO:
TYPICAL STREET EASEMENTS		190-4
DATE: 6/21/2016	REVISED:	SHEET 1 OF 1

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Marana Regular Council Meeting 06/21/2016

Town of Marana Utility Easement Requirements

1) Easements shall be exclusive Town of Marana wet utility easement with maximum 5' encroachment by a PUE.
2) Easement width shall be increased by 5' for every 2' water line is buried below the minimum as required by the May 2009 or subsequent version of the Town of Marana Utility Department General Notes and Standard Details.
3) Easement width shall be increased by 10' for every additional variety of wet utility (potable water, non potable water, sewer). For example, the easement width shall be increased to 35' if two types of wet utilities are located within the easement, and to 45' if all three types of wet utilities are located within the easement.
4) Easement width shall increase by 5' where the easement overlaps a vertical drop of 3 or more feet where the slope is greater than 3:1 horizontal to vertical. The easement width shall increase by 10' if the slope exceeds 2:1 horizontal to vertical.
5) The maximum wet utility easement, including increases for depth, PUE encroachment, additional wet utilities and slope, shall not be greater than 50'.
6) Wet utility line shall be a minimum of 5' from the edge of the easement.
7) Wet utility line shall be set back an additional 2' from the edge of the easement for every 5' in depth the line is buried below the minimum depth.
8) A 15' x 15' easement area outside of the normal easement width shall be provided for all fire hydrants.
9) A 15' x 15' easement area outside of the normal easement width shall be provided for all meters, valves and fire line stub outs.
10) Where Terrain and/or Geology warrant an exception to these standards, a waiver may be granted by the Town Engineer or his designee in which all off the following apply:
   a) A showing of good and sufficient cause
   b) A determination that failure to grant the waiver would result in exceptional hardship to the development.
   c) The waiver is determined to be the minimum relief necessary.
   d) Other mitigating design elements are utilized such as ductile iron pipe with restrained joints or other improvements as directed by the utilities engineer.

Cost shall not be a determining factor in the granting of waivers.



LEGEND

— w — Potable Water
— rw — Reclaimed Water
— s — Sewer

A – MINIMUM 25 FEET EASEMENT
B – 15'X15' EASEMENT FOR METER
C – 15'X15' EASEMENT FOR HYDRANT
D – 15'X15' EASEMENT FOR FIRE LINE STUBOUT

NOT TO SCALE

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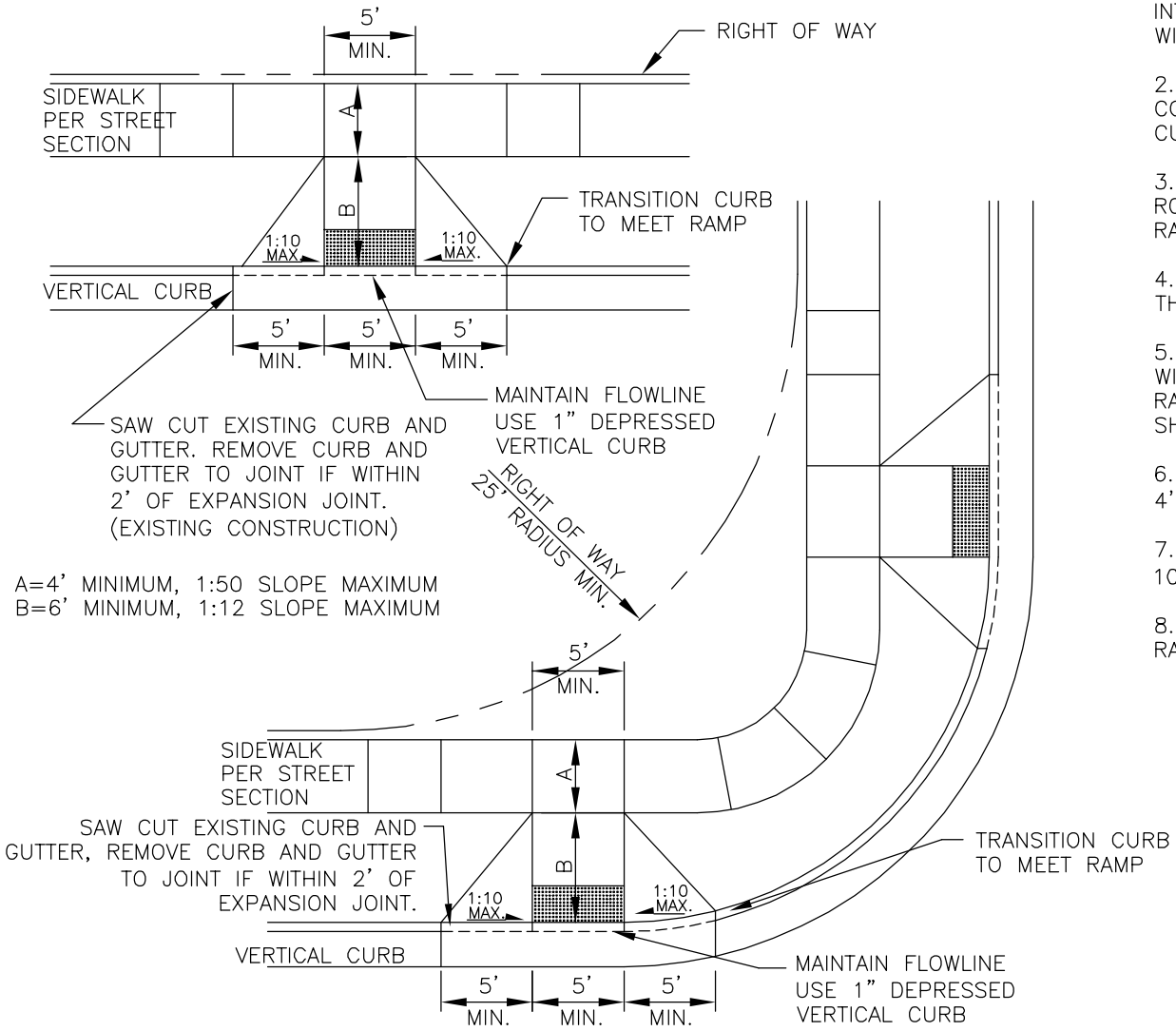
Keith E. Brann, P.E.,
Town Engineer

Paul Stephen Baughman

Registered Professional Engineer (Civil) CERTIFICATE NO. 48654 PAUL STEPHEN BAUGHMAN DATE SIGNED 12/24/09 ARIZONA, U.S.A. Expires 9/30/2011

TOWN OF MARANA 1977 ARIZONA

MARANA UTILITY STANDARDS		DETAIL NO:
TYPICAL UTILITY EASEMENTS		500-1
DATE: 8/19/2009	REVISED: 12/24/2009	SHEET 1 OF 1



NOTES:

1. CURB RAMPS, INCLUDING LANDING AND THE INTERCONNECTING SIDEWALK ARE TO BE CONTAINED WITHIN THE RIGHT-OF-WAY.

2. DETECTABLE WARNING SURFACE SHALL BE CONSTRUCTED 2 INCHES AWAY FROM DEPRESSED CURB.

3. CURB RAMPS SHALL BE PERPENDICULAR TO ROADWAY CENTERLINE AND SHALL ALIGN WITH RAMPS ACROSS STREET.

4. GRADES ON SIDEWALKS LEADING TO OR FROM THE RAMPS SHALL FOLLOW CURB GRADES.

5. THE INTERCONNECTING SIDEWALK LOCATED WITHIN THE RADIUS AND BETWEEN THE TWO CURB RAMPS IS REQUIRED AND ITS RUNNING SLOPE SHALL NOT EXCEED 1:20.

6. STOP BARS, IF REQUIRED, SHALL BE LOCATED 4' IN ADVANCE OF ANY CROSSWALK STRIPING.

7. CURB INLETS SHALL NOT BE LOCATED WITHIN 10' OF A CURB RAMP.

8. GUTTER SHALL PROVIDE SMOOTH TRANSITION TO RAMPS.

NOT TO SCALE

APPROVED FOR DISTRIBUTION:

Keith E. Brann, P.E.,
Town Engineer

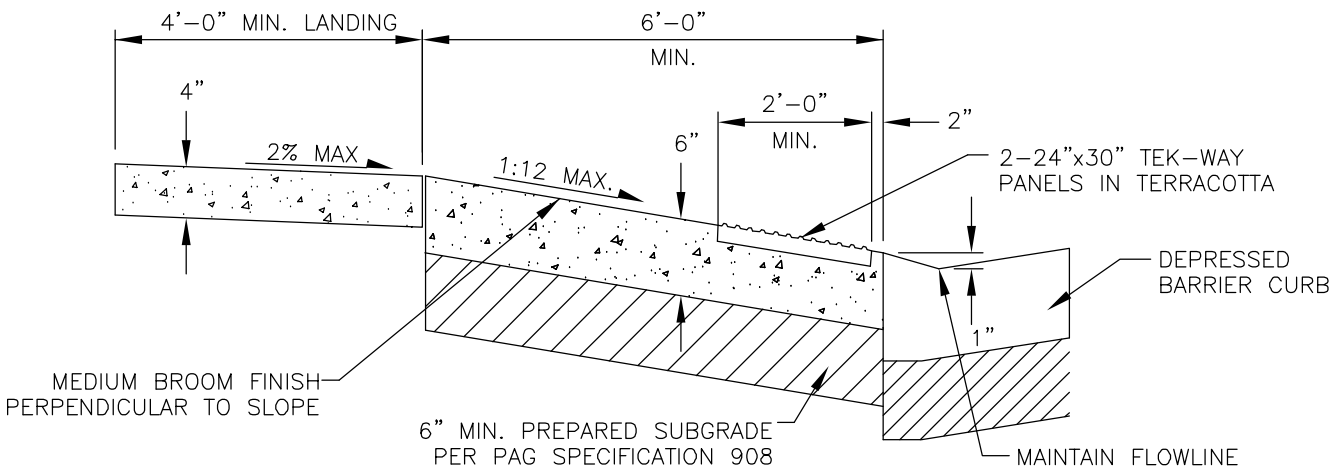
EXPIRES 6/30/2019

Registered Professional Engineer (Civil) CERTIFICATE NO. 40845 KEITH EDWARD BRANN Date Signed ARIZONA, U.S.A.

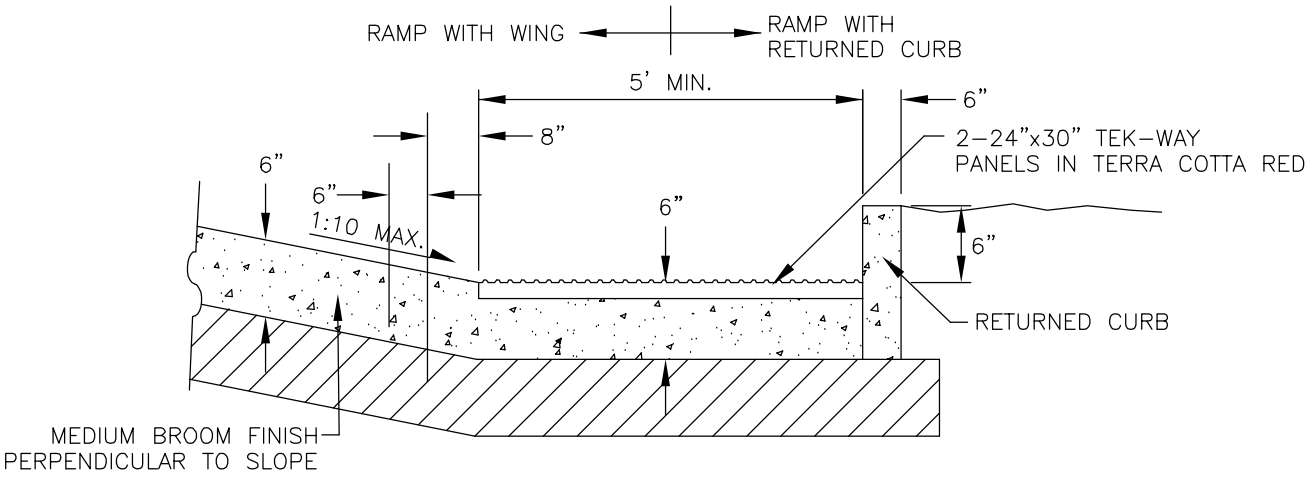
TOWN OF MARANA 1 9 7 7 ARIZONA

STANDARD DETAIL		DETAIL NO:
TYPE 1 CURB RAMPS		600-1
DATE: 10/2004	REVISED: 6/21/2016	SHEET 1 OF 2

SECTION THROUGH RAMP



FRONT END VIEW



NOTES:

9. DETECTABLE WARNING SURFACE TO CONSIST OF TWO TEK–WAY PANELS OF SIZE 24 INCHES BY 30 INCHES. COLOR OF PANELS TO BE TERRACOTTA.

10. TEK–WAY PANELS TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. DETAIL ASSUMES SETTING PANELS IN WET CONCRETE. PROVIDE 1 INCH CAVITY IF SETTING PANELS SEPARATE FROM CONCRETE POUR.

11. PANELS TO BE PROTECTED FROM CONSTRUCTION DEBRIS/DIRT UNTIL OVERALL PROJECT COMPLETE.

12. ALTERNATE SYSTEMS SHALL HAVE DETECTABLE WARNING THAT CONSISTS OF RAISED TRUNCATED DOMES WITH A DIAMETER OF 0.9" AT BOTTOM, 0.4" AT TOP, AND A NOMINAL HEIGHT OF 0.2" AND A NOMINAL CENTER TO CENTER SPACING OF 2.35". COLOR MUST BE OF A DULL RED HUE. ALTERNATE SYSTEMS MUST BE APPROVED BY THE TOWN ENGINEER.

13. DEPRESSED CURB HEIGHT CALCULATED TO ACHEIVE A 1:12 SLOPE FROM THE FLOWLINE TO THE TOP OF DEPRESED CURB FOR STANDARD BARRIER CURB USED IN THE TOWN OF MARANA AND MAY NOT APPLY TO ALL SITUATIONS. THE CONTROLLING FACTOR OF ALTERNATE DESIGNS SHALL BE A 1:12 MAXIMUM SLOPE FROM FLOWLINE TO TOP OF DEPRESSED CURB.

NOT TO SCALE

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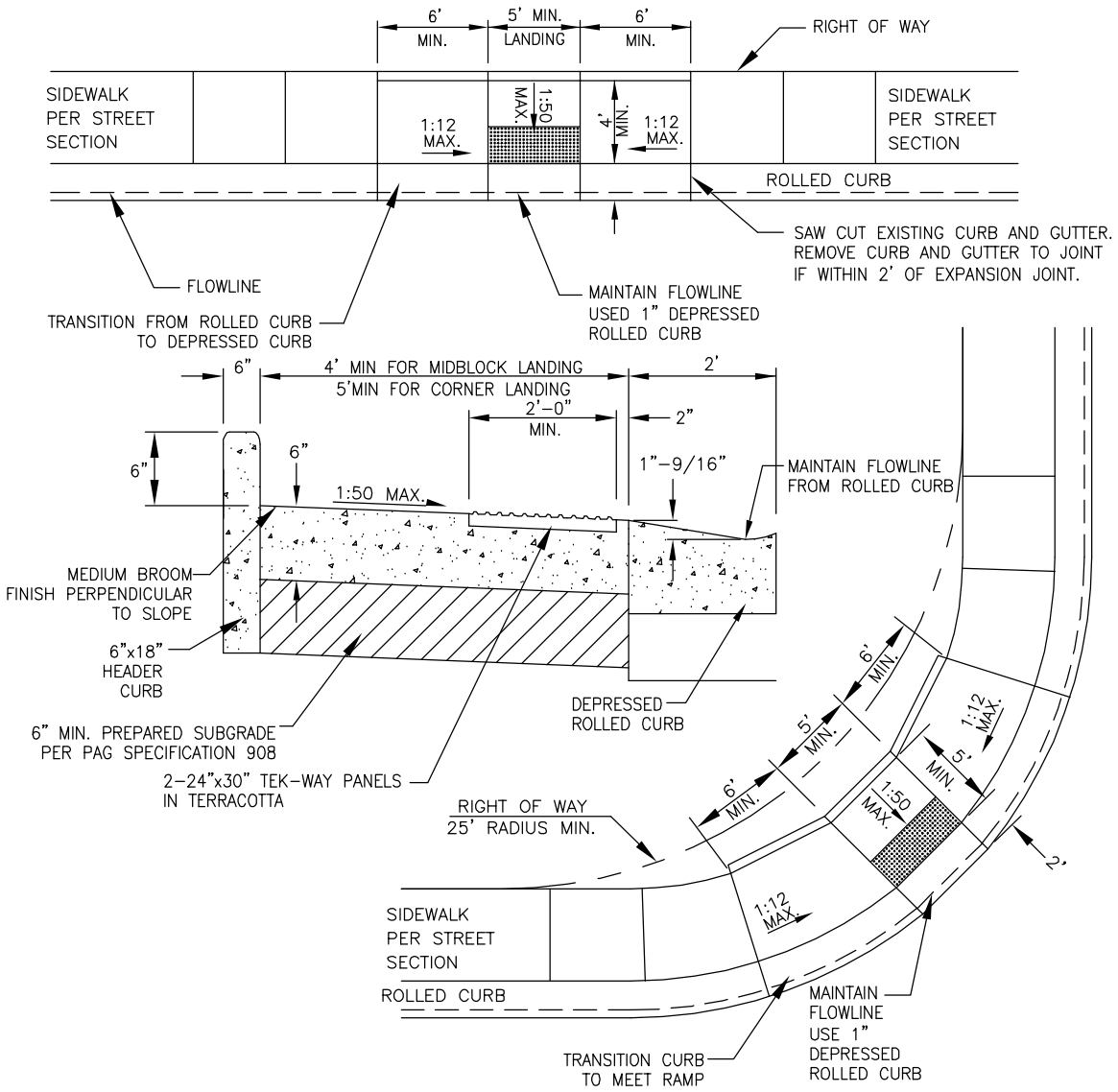
Keith E. Brann, P.E.,
Town Engineer

EXPIRES 6/30/2019

Registered Professional Engineer (Civil) CERTIFICATE NO. 40845 KEITH EDWARD BRANN Date Signed ARIZONA, U.S.A.

TOWN OF MARANA 1 9 7 7 ARIZONA

STANDARD DETAIL		DETAIL NO:
TYPE 1 CURB RAMPS		600–1
DATE: 10/2004	REVISED: 6/21/2016	SHEET 2 OF 2



NOTES:

1. GRADES ON SIDEWALKS LEADING TO AND FROM THE RAMPS SHALL FOLLOW CURB GRADES.

2. CURB INLETS SHALL NOT BE LOCATED WITHIN 10' OF A CURB RAMP.

3. GUTTER SHALL PROVIDE A SMOOTH TRANSITION THROUGH THE RAMP.

4. DETECTABLE WARNING SURFACE SHALL BE CONSTRUCTED 2 INCHES AWAY FROM DEPRESSED CURB.

5. DETECTABLE WARNING SURFACE TO CONSIST OF TWO TEK-WAY PANELS OF SIZE 24 INCHES BY 30 INCHES. COLOR OF PANELS TO BE TERRACOTTA.

6. TEK-WAY PANELS TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. DETAIL ASSUMES SETTING PANELS IN WET CONCRETE. PROVIDE 1 INCH CAVITY IF SETTING PANELS SEPARATE FROM CONCRETE POUR.

7. PANELS TO BE PROTECTED FROM CONSTRUCTION DEBRIS/DIRT UNTIL OVERALL PROJECT COMPLETE.

8. ALTERNATE SYSTEMS SHALL HAVE DETECTABLE WARNING THAT CONSISTS OF RAISED TRUNCATED DOMES WITH A DIAMETER OF 0.9" AT BOTTOM, 0.4" AT TOP, AND A NOMINAL HEIGHT OF 0.2" AND A NOMINAL CENTER TO CENTER SPACING OF 2.35". COLOR MUST BE OF A DULL RED HUE. ALTERNATE SYSTEMS MUST BE APPROVED BY THE TOWN ENGINEER.

9. DEPRESSED CURB HEIGHT CALCULATED TO ACHEIVE A 1:12 SLOPE FROM THE FLOWLINE TO THE TOP OF DEPRESED CURB FOR STANDARD ROLLED CURB USED IN THE TOWN OF MARANA AND MAY NOT APPLY TO ALL SITUATIONS. THE CONTROLLING FACTOR OF ALTERNATE DESIGNS SHALL BE A 1:12 MAXIMUM SLOPE FROM FLOWLINE TO TOP OF DEPRESSED CURB.

NOT TO SCALE

EXPIRES 6/30/2019

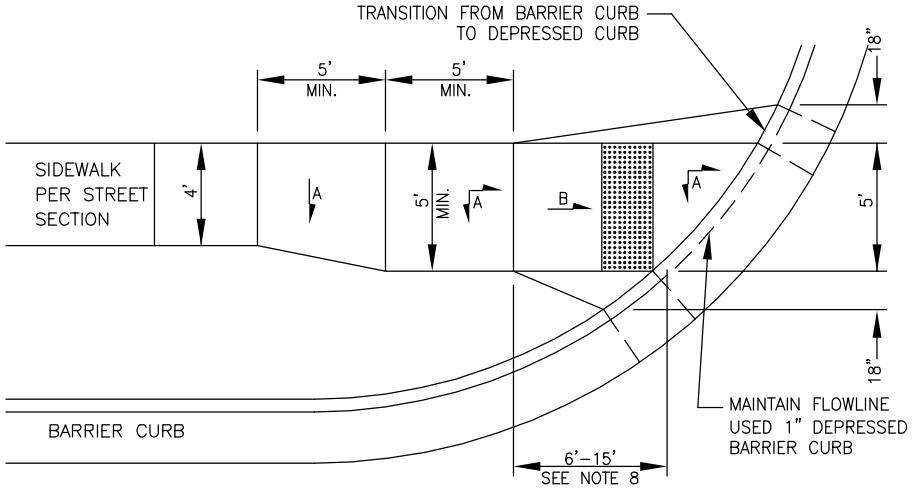
APPROVED FOR DISTRIBUTION:

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Town Engineer

Registered Professional Engineer (Civil) CERTIFICATE NO. 40845 KEITH EDWARD BRANN Date Signed ARIZONA, U.S.A.

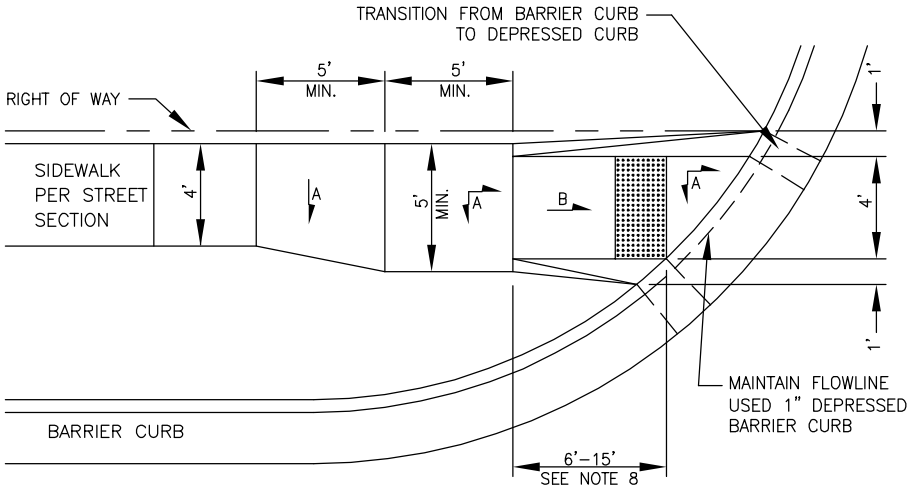
TOWN OF MARANA 1979 ARIZONA

STANDARD DETAIL		DETAIL NO:
TYPE 2 CURB RAMPS		600-2
DATE: 10/2004	REVISED: 6/21/2016	SHEET 1 OF 1



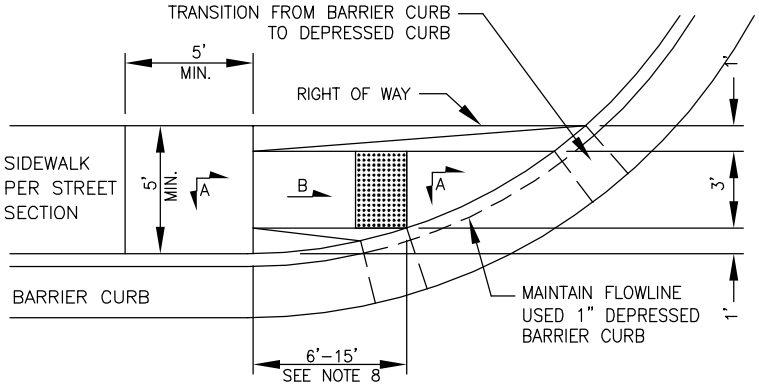
TYPE 3

A 1:50 MAXIMUM SLOPE
B 1:12 MAXIMUM SLOPE, SEE NOTE 8



TYPE 3A

LIMITED RIGHT OF WAY WITH CURBWAY



TYPE 3B

LIMITED RIGHT OF WAY WITHOUT CURBWAY

NOT TO SCALE

EXPIRES 6/30/2019

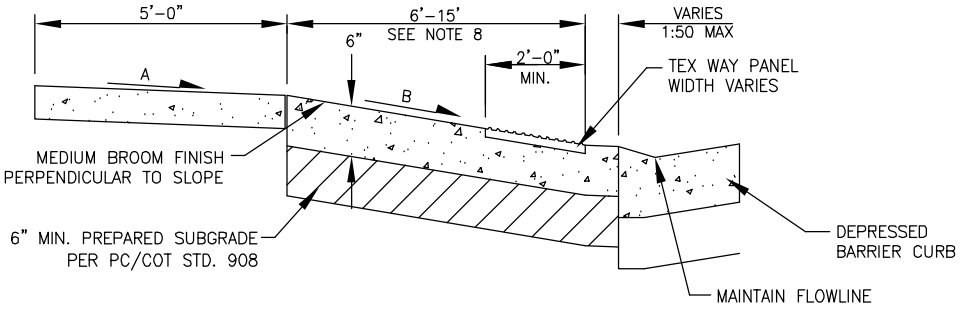
APPROVED FOR DISTRIBUTION:

Keith E. Brann, P.E.,
Town Engineer

Registered Professional Engineer (Civil) CERTIFICATE NO. 40845 KEITH EDWARD BRANN Date Signed ARIZONA, U.S.A.

TOWN OF MARANA 1977 ARIZONA

STANDARD DETAIL		DETAIL NO:
TYPE 3 CURB RAMPS		600-3
DATE: 10/2004	REVISED: 6/21/2016	SHEET 1 OF 2



A 1:50 MAXIMUM SLOPE
B 1:12 MAXIMUM SLOPE, SEE NOTE 8

1. GRADES ON SIDEWALKS LEADING TO AND FROM THE RAMPS SHALL FOLLOW CURB GRADES.

2. CURB INLETS SHALL NOT BE LOCATED WITHIN 10' OF A CURB RAMP.

3. GUTTER SHALL PROVIDE A SMOOTH TRANSITION THROUGH THE RAMP.

4. DETECTABLE WARNING SURFACE TO CONSIST OF TWO TEK-WAY PANELS OF SIZE 24 INCHES BY 30 INCHES FOR TYPE 3 RAMPS AND SIZE 24 INCHES BY 24 INCHES FOR TYPE 3A AND 3B RAMPS – CUT AS NEEDED. COLOR OF PANELS TO BE TERRACOTTA.

5. TEK-WAY PANELS TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. DETAIL ASSUMES SETTING PANELS IN WET CONCRETE. PROVIDE 1 INCH CAVITY IF SETTING PANELS SEPARATE FROM CONRETE POUR.

6. ALTERNATE SYSTEMS SHALL HAVE DETECTABLE WARNING THAT CONSISTS OF RAISED TRUNCATED DOMES WITH A DIAMETER OF 0.9" AT BOTTOM, 0.4" AT TOP, AND A NOMINAL HEIGHT OF 0.2" AND A NOMINAL CENTER TO CENTER SPACING OF 2.35". COLOR MUST BE OF A DULL RED HUE. ALTERNATE SYSTEMS MUST BE APPROVED BY THE TOWN ENGINEER.

7. DEPRESSED CURB HEIGHT CALCULATED TO ACHEIVE A 1:12 SLOPE FROM THE FLOWLINE TO THE TOP OF DEPRESED CURB FOR STANDARD BARRIER CURB USED IN THE TOWN OF MARANA AND MAY NOT APPLY TO ALL SITUATIONS. THE CONTROLLING FACTOR OF ALTERNATE DESIGNS SHALL BE A 1:12 MAXIMUM SLOPE FROM FLOWLINE TO TOP OF DEPRESSED CURB.

8. RAMP LENGTH TO BE A MINIMUM OF 6 FEET. RAMP MUST BE LENGTHENED AS NECESSARY DUE TO ADJACENT STREET SLOPE TO ACHIEVE EITHER A 1:12 MAXIMUM SLOPE UP TO A MAXIMUM LENGTH OF 15 FEET.

APPROVED FOR DISTRIBUTION:

Keith E. Brann, P.E.,
Town Engineer

EXPIRES 6/30/2019

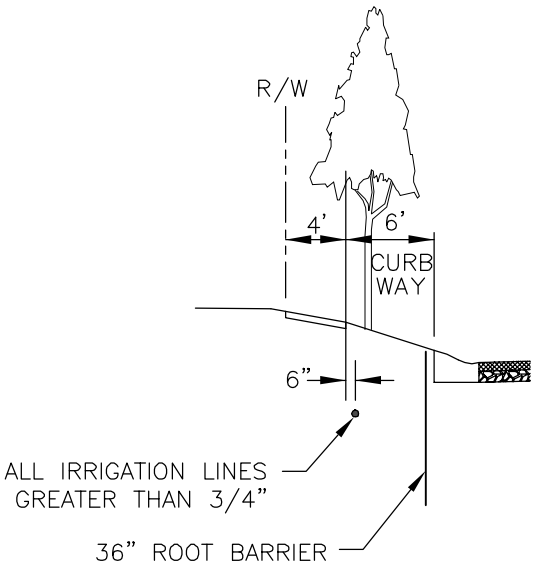
Registered Professional Engineer (Civil) CERTIFICATE NO. 40845 KEITH EDWARD BRANN Date Signed ARIZONA, U.S.A.

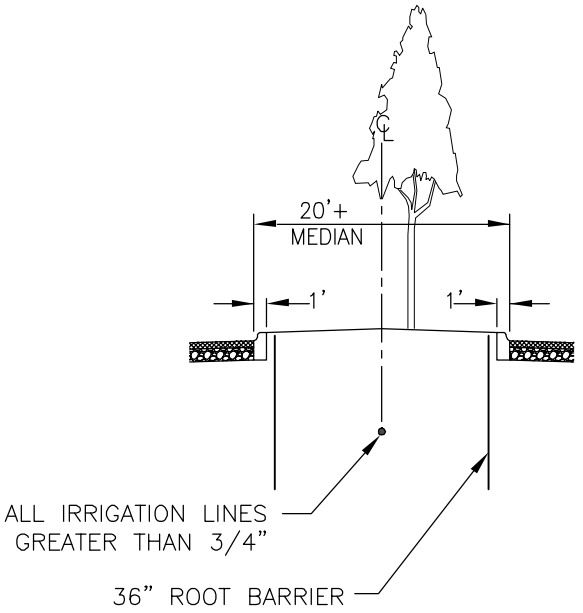
TOWN OF MARANA 1917 ARIZONA

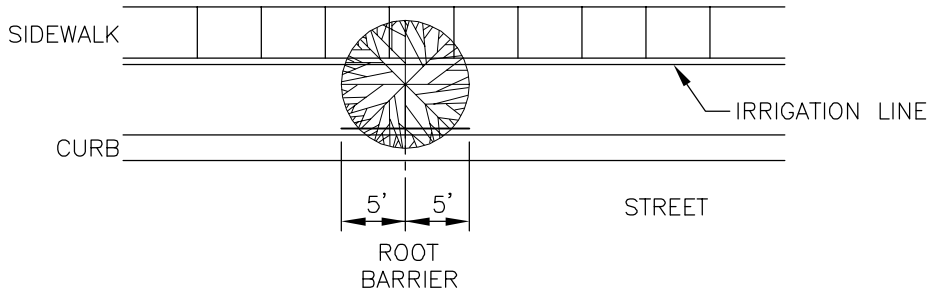
NOT TO SCALE

STANDARD DETAIL		DETAIL NO:
TYPE 3 CURB RAMPS		600-3
DATE: 10/2004	REVISED: 6/21/2016	SHEET 2 OF 2

1. ALL IRRIGATION LINES GREATER THAN 3/4" IN DIAMETER SHALL BE PLACED AS SHOWN.
2. TREES SHOULD BE PLACED TO THE REAR OF A CURBWAY OR JUST OFF THE CENTERLINE OF A MEDIAN.
3. DEEP ROOT WATERING SYSTEMS ARE TO BE USED ON ALL LANDSCAPE PALETTES WITH TREES IN CURBWAYS OR MEDIANS.
4. 36" DEEP ROOT BARRIERS REQUIRED FOR ALL TREES WITHIN CURBWAYS.
5. 36" DEEP ROOT BARRIERS REQUIRED FOR MEDIAN TREES CLOSER THAN 6 FEET FROM CURB.
6. WHEN REQUIRED, ROOT BARRIERS SHALL EXTEND 5 FEET TO EITHER SIDE OF TREE MEASURED PERPENDICULAR TO PAVEMENT/CURB. TOP OF ROOT BARRIER EVEN WITH TOP OF FINISHED EARTHWORK/BELOW ROCK MULCH.







NOT TO SCALE

APPROVED FOR DISTRIBUTION:

Keith E. Brann, P.E.,
Town Engineer

EXPIRES 6/30/2019

Registered Professional Engineer (Civil) CERTIFICATE NO. 40845 KEITH EDWARD BRANN Date Signed ARIZONA, U.S.A.

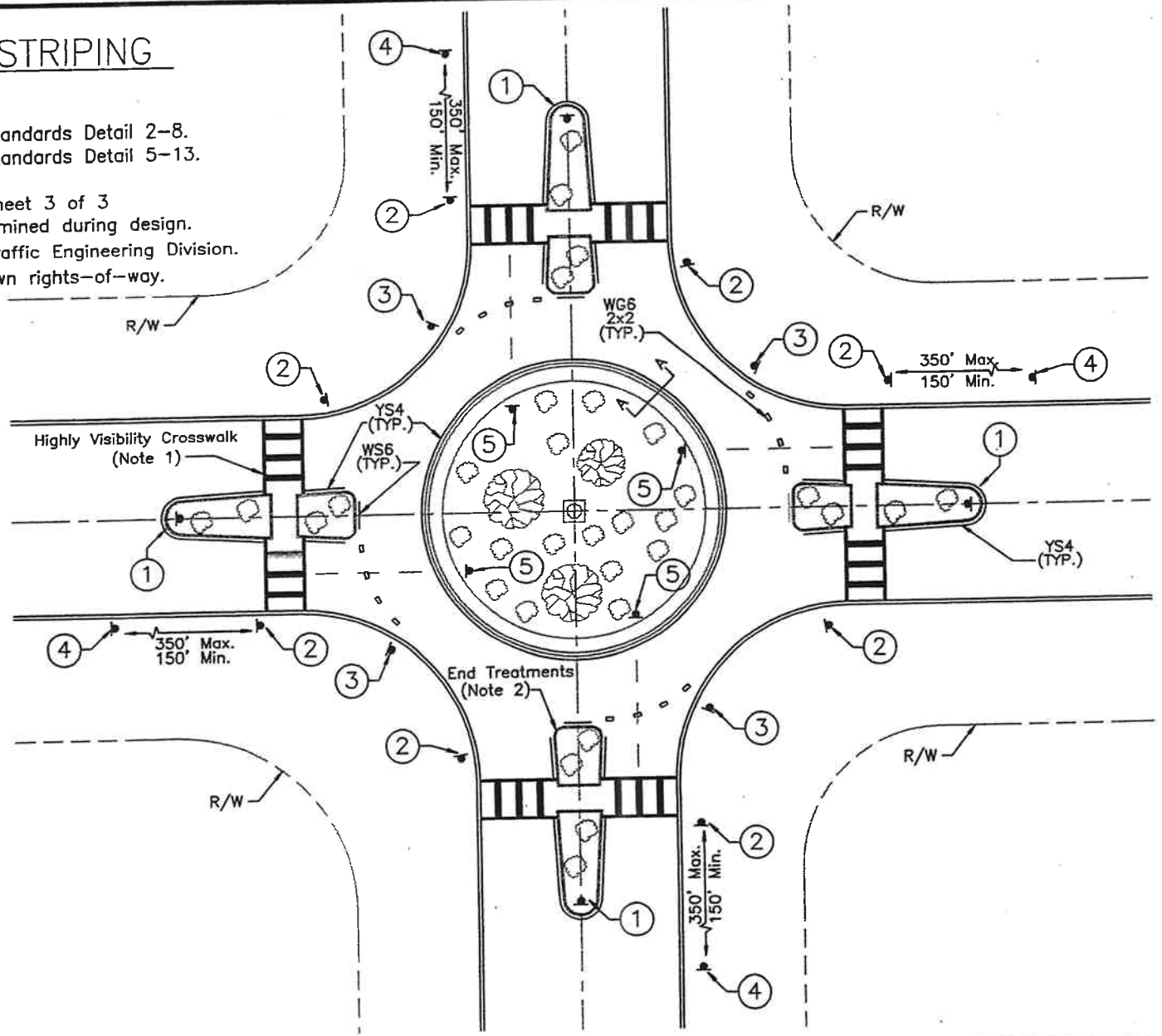
TOWN OF MARANA 1917 ARIZONA

STANDARD DETAIL		DETAIL NO:
LANDSCAPING PROTECTION		610-1
DATE: 6/21/2016	REVISED:	SHEET 1 OF 1

TYPICAL SIGNING AND STRIPING

NOTES:

1. See PCDOT/COTDOT Pavement Marking Standards Detail 2–8.
2. See PCDOT/COTDOT Pavement Marking Standards Detail 5–13.
3. See Sheet 2 of 3 for Sign Details
4. Cross Section A–A (Truck Apron), See sheet 3 of 3
5. Size and location of islands to be determined during design.
6. Landscaping shall be approved by the Traffic Engineering Division.
7. All signs shall be installed within the Town rights–of–way.



APPROVED FOR DISTRIBUTION:

Keith E. Brann, P.E.,
Acting Town Engineer

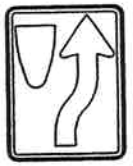
MARANA SUBDIVISION STREET STANDARDS		DETAIL NO:
ROUNDABOUT		700–1
DATE: 9/14/05	REVISED:	SHEET 1 OF 3

SIGN DETAILS

NOTES:

1. ALL WARNING AND REGULATORY SIGNS SHALL BE TYPE III (HIGH INTENSITY) SHEETING, UNLESS OTHERWISE INDICATED.
2. ALL THE WARNING AND YIELD SIGNS ON COLLECTOR OR ARTERIAL ROADS NEED TO BE 36"
3. ALL THE WARNING AND YIELD SIGNS ON RESIDENTIAL ROADS NEED TO BE 30"
4. SIGNS MAY BE MODIFIED AND LOCATIONS ADJUSTED TO FIT CONDITIONS AS DIRECTED BY THE JURISDICTION TRAFFIC ENGINEER OR DESIGNEE.

1

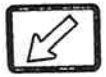


R4-7
(24"x30")

2



W11-2
30" OR 36"
FLUORESCENT YELLOW-GREEN



W16-7p
(24"x12") OR (30"x18")
FLUORESCENT YELLOW-GREEN

3



R1-2
30" OR 36"

TO TRAFFIC
IN CIRCLE

Special
(24"x18") OR (30"x24")
BLACK ON WHITE

4



W2-6
30" OR 36"
BLACK ON YELLOW

TRAFFIC
CIRCLE

W16-12p
(24"x18") OR (30"x24")
BLACK ON YELLOW

5



R6-1R
(36"x12")

APPROVED FOR DISTRIBUTION:

Keith E. Brann, P.E.,
Acting Town Engineer

Registered Professional Engineer (Civil)
38119
SCOTT A. LESKA
ARIZONA, U.S.A.

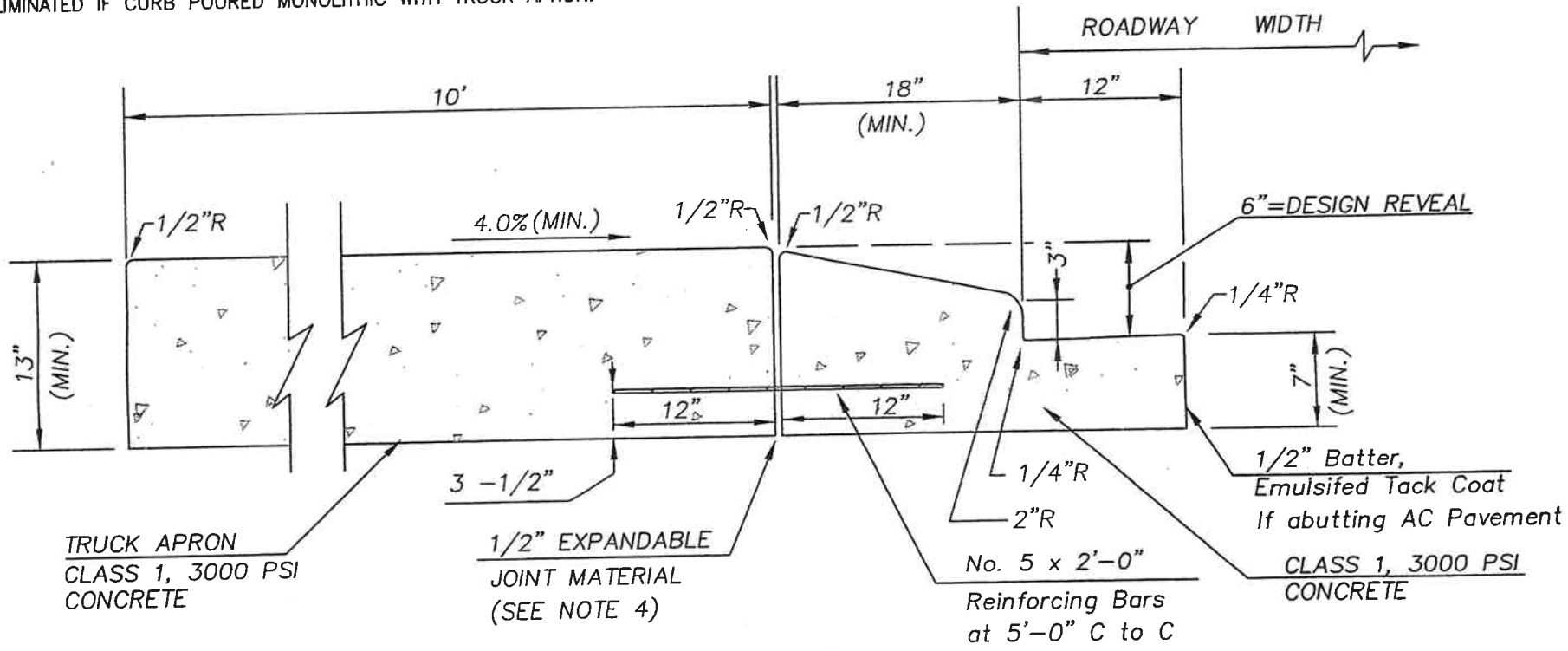
TOWN OF MARANA ARIZONA 1977

MARANA SUBDIVISION STREET STANDARDS		DETAIL NO:
ROUNDABOUT		700-1
DATE: 9/14/05	REVISED:	SHEET 2 OF 3

MOUNTABLE CONCRETE CURB, GUTTER AND TRUCK APRON COMBINATION

NOTES:

1. WHEN THE SLOPE OF THE PAVEMENT IS AWAY FROM THE CURB AND GUTTER THE SLOPE OF THE GUTTER SHALL MATCH THE PAVEMENT CROSS SLOPE.
2. TRUCK APRON SHALL BE CLASS I CONCRETE, COLORED FULL DEPTH WITH RED PIGMENT AS APPROVED BY THE TOWN ENGINEER OR DESIGNEE. (14 LBS. RED PIGMENT PER 94 LB. STOCK OF CEMENT, SCORED IN 12" BLOCKS. ONLY MINOR VARIATIONS IN COLOR WILL BE ACCEPTED.)
3. INSTALL 1/2" EXPANSION JOINT MATERIAL IN CURB AND GUTTER, AND IN TRUCK APRON AT 100' INTERVALS, AT STRUCTURES, AND AT BEGINING AND END OF CURVES. CONTRACTION JOINTS SHALL BE PLACED AT 10' INTERVALS.
4. THE CONSTRUCTION JOINT AND THE 1/2" EXPANDABLE JOINT MATERIAL CAN BE ELIMINATED IF CURB POURED MONOLITHIC WITH TRUCK APRON.



Cross section A-A

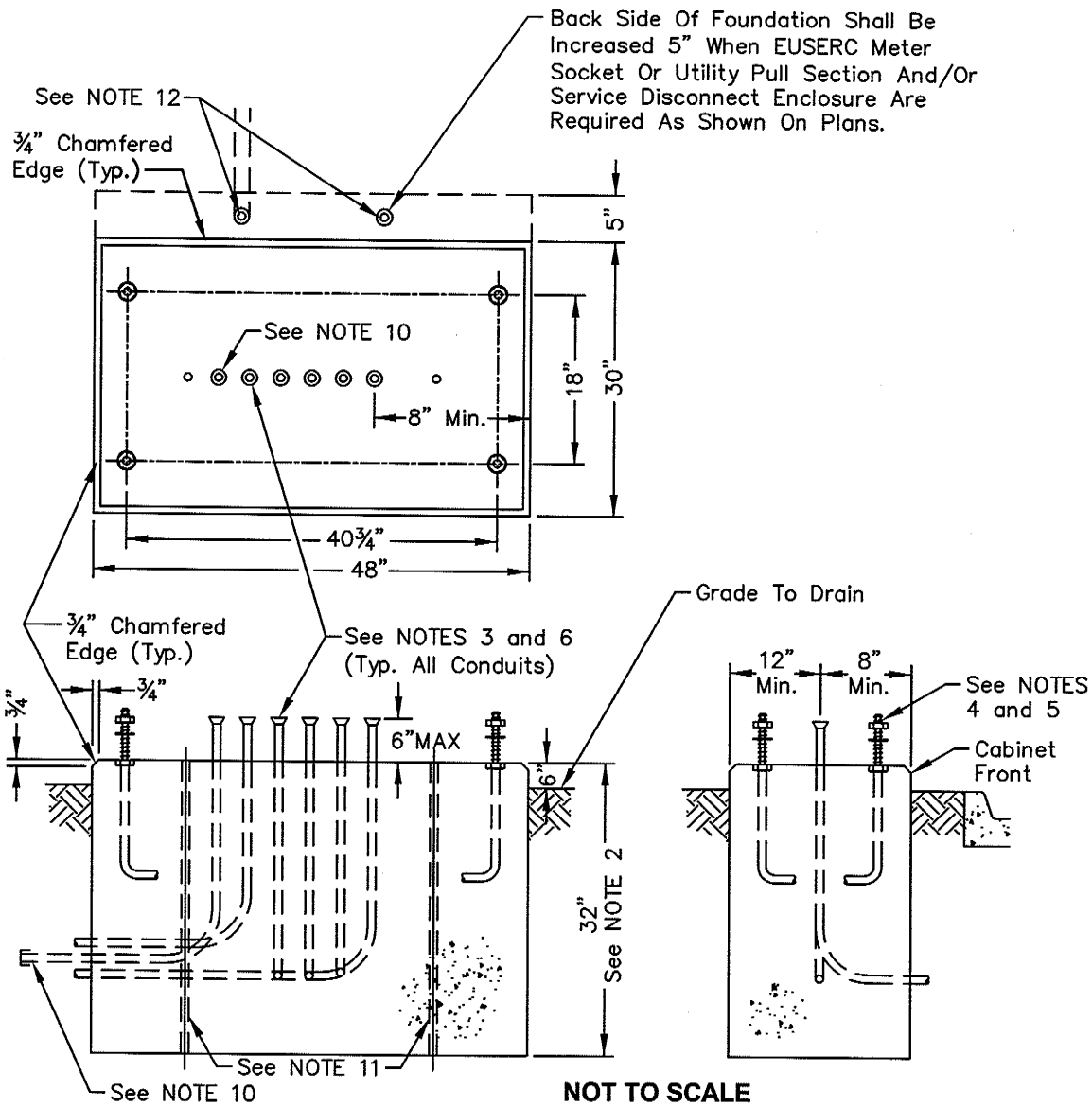
APPROVED FOR DISTRIBUTION:

Keith E. Brann, P.E.,
Acting Town Engineer

Registered Professional Engineer (Civil) 38119 SCOTT A. LESKA Date Signed ARIZONA, U.S.A.

TOWN OF MARANA 1 9 7 7 ARIZONA

MARANA SUBDIVISION STREET STANDARDS		DETAIL NO:
ROUNDABOUT		700-1
DATE: 9/14/05	REVISED:	SHEET 3 OF 3



NOT TO SCALE

NOTES:

1. All materials and construction shall conform to the requirements of the Special Provisions and Standard Specifications.
2. Unstable soil may require deeper foundations. See Special Provisions and Standard Specifications.
3. For conduit size, location, and quantity, see Project Plans.
4. Anchor bolts shall be galvanized ¾" x 12" x 4" complete with nuts and washers.
5. Anchor bolt's projection above foundation shall be 2" min. 2½" max.
6. Conduit projection above foundation shall be 2½" min. 4" max.
7. Use an approved silicon sealer RTV type gray in color or clear, between cabinet and foundation.
8. In unpaved areas a raised concrete pad foundation (36" x width of cabinet foundation x 4" thick) shall be installed in front of the cabinet (door side). Pad shall be set 2" below the foundation elevation. Slope pad away from cabinet at a 50:1 slope.
9. All cabinet foundations shall have two (2) ¾" diameter x 10' long bonded copper ground rod with clamp.
10. Install 1–4" conduit for future use, stubbed and capped 24" past the edge of the foundation as directed by the Town Engineer or His/Her Designee.
11. 1" sleeve (for each ground rod) shall be inserted when foundation is poured. Install one (1) ¾" diameter x 10' long bonded copper ground rod in each sleeve.
12. 4" sleeves for service conduits if an Electrical Utility Service Entrance Requirement Committee (EUSERC) meter socket or EUSERC utility pull section and/or service disconnect enclosure are required.
13. Prior to pouring concrete foundation, final approval of conduit placement from Town Engineer or His/Her Designee shall be obtained.
14. Contractor is responsible to make sure cabinet fits on bolt pattern.

APPROVED FOR DISTRIBUTION:

9/9/2005

Keith E. Brann, P.E., Date
Acting Town Engineer

Registered Professional Engineer (Civil) 38119 SCOTT A. LESKA Date Signed 9/9/05 ARIZONA, U.S.A.

TOWN OF MARANA ARIZONA 1777

STANDARD DETAIL		DETAIL NO:
FOUNDATION FOR TYPE IV, V CONTROLLER CABINETS		730–210
DATE: 9/9/05	REVISED:	SHEET 1 OF 1

GENERAL TRAFFIC SIGNAL RESPONSIBILITIES:

1. Materials installed as part of this Project shall be furnished and installed in accordance with the requirements of the following table:

	Contractor Furnished	Contractor Installed/ Constructed	Town Furnished	Town Installed
Traffic Signal Poles and Mast Arms	X	X		
Steel Poles and Anchor Bolts (With Nuts and Washers)	X	X		
Concrete Pole Foundation	X	X		
Type IV Traffic Signal Controller Cabinet(s) With Controller(s) and All Auxiliary/Incidental Equipment			X	X
Controller Cabinet Concrete Foundation with Anchor Bolts	X	X		
Electrical Service Pedestal			X	X
Electrical Service Pedestal Concrete Foundation	X	X		
All Wiring and Cabling (Including Bare Bond Wire and Pull Ropes)	X	X		
Concrete Pull Boxes	X	X		
Electrical Conduit	X	X		
Ground Rods and Connectors	X	X		
Traffic Signals and Mounting Assemblies	X	X		
Pedestrian Signals and Mounting Assemblies	X	X		
Pedestrian Push Button Stations with Signs	X	X		
Luminaires and Photocells	X	X		
Vehicle Detection Loops	X	X		
Emergency Vehicle Preemption Equipment		X	X	
Emergency Vehicle Preemption Wiring	X	X		
Video Detection System Equipment		X	X	
Video Detection System Wire and Cable		X	X	
Pan/Tilt/Zoom Color–B/W Video Equipment		X	X	
Pan/Tilt/Zoom Color–B/W Cable & Wire		X	X	
Internally Illuminated Street Name Sign(s) or Street Name Sign(s)	X	X		
Regulatory Signing	X	X		
All other appurtenances necessary for the operation of the traffic signal installation(s), except as modified on the Project Plans or as provided in the Special Provisions.	X	X		

GENERAL TRAFFIC SIGNAL RESPONSIBILITIES (CONTINUED):

2. The Contractor shall contact the Town of Marana Traffic Signal Maintenance and Operations Supervisor at (520)382–2500 a minimum of two (2) weeks prior to the scheduled installation of the cabinet(s). The Town of Marana will deliver the cabinet(s) to the Project Site on the day scheduled for installation.

3. The Town of Marana will place the cabinet(s) onto the foundation(s). The Contractor shall be responsible for ensuring that the anchor bolts are positioned such that the cabinet(s) will align properly onto the foundation(s). Contractor shall secure cabinet(s) to the foundation.

4. The Contractor shall be responsible for routing all conductors into the cabinet, and shall identify routing and connections of all cables and conductors as required in the 1994 Pima County/City of Tucson "Standard Specifications for Public Improvements". The Town of Marana staff will terminate the conductors in the cabinet(s).

5. The Contractor shall carefully disassemble and salvage all existing traffic signal and street lighting equipment that is not to remain or be relocated as shown on the Project Plans or as provided in the Special Provisions. All of the salvaged equipment shall be returned to the Town of Marana Operations Center (MOC), 5100 West Ina Road, Tucson AZ, 85743. The salvaged equipment shall be unloaded by the Contractor, as directed by the Town. Contact the Town of Marana Traffic Signal Maintenance and Operations Supervisor at (520) 382–2500 a minimum of two (2) working days (excluding weekends and Town recognized holidays) prior to delivering the equipment.

6. Existing traffic signal operations shall be maintained throughout the duration of the Project as shown on the Project Plans or as called for in the Special Provisions unless approved by the Town Engineer or His/Her Designee.

7. The Contractor shall obtain all required permits and shall be responsible for all traffic control related to the Project and the construction zone. The Contractor shall strictly conform and adhere to the approved Project Traffic Control Plan at all times.

8. The Contractor shall install/construct all items associated with the Project as called for on the Project Plans or in the Special Provisions.

9. The Contractor shall load, transport and unload all items specified on the Project plans supplied by both the Contractor and the Town to the job site, unless specified otherwise by the Engineer. The Contractor shall notify the Town of Marana and its representatives a minimum of two (2) working days (excluding weekends and Town recognized holidays) in advance. Contact the Traffic Signal Maintenance of Operations Supervisor at (520) 382–2500.

Note: It is intended that the Notes herein of the Traffic Signal Standard Responsibilities shall be considered part of the Construction Contract Documents. If the Project Plans differ from the notes herein (Town of Marana Standard Detail 730–400) the Project Plans shall note the change on the Project Plan's General Note Sheet and be edited where appropriate to fit the Project.

APPROVED FOR DISTRIBUTION:

6/20/2006

Keith E. Brann, P.E., Town Engineer — Date

Registered Professional Engineer (Civil) — Certificate No. 38119 — SCOTT A. LESKA — Date signed — ARIZONA, U.S.A.

TOWN OF MARANA ARIZONA

STANDARD DETAIL	DETAIL NO:
GENERAL TRAFFIC SIGNAL RESPONSIBILITIES	730–400
DATE: 9/9/05 / REVISED: 06/20/06	SHEET 1 OF 1

GENERAL TRAFFIC SIGNAL NOTES (CONTINUED):

34. The Contractor shall coordinate with the telephone utility public improvement coordinator to verify the location of the telephone connection at each intersection.

35. The Contractor shall "pothole" or hand dig all foundations prior to the placement of all cabinets, and traffic signal and/or street light poles.

36. The Contractor shall not make or begin any excavation, digging or any work associated with moving any earth or ground within any public Town rights-of-way, utility easements, and/or any expressed or implied private property without first determining whether any underground facilities (shown and not shown on the Project Plans) will be encountered, and if so where they are located from each and every public utility, municipal corporation or other entity having the right to bury such underground facility within the public right-of-way, private property or easement within the Project limits. The Contractor shall take all nessesay measures for the location and control of such facilities in a careful and prudent manner.

37. Any equipment and/or utilities within the project (shown or not shown on the plans) that is damaged or destroyed by the contractor shall be repaired or replaced at the sole expense of the Contractor.

38. The Contractor shall immediately report all conflicts regarding the overhead utilities and the Project signal equipment that is to be installed as indicated on the Project Plans to the Town Engineer and the utility of jurisdiction. If required, the Contractor shall coordinate all utility and/or traffic signal equipment relocation as required with the Town, the Engineer of Record and the Utility Company.

39. The Contractor shall pothole all utilities (shown and not shown on the Project plans) prior to boring, trenching, or directional drilling to verify depths and locations.

Note:

It is intended that Notes 1-39 of this Traffic Signal Standard shall be considered as part of the Construction Contract Documents. If the Project Plans differ from the notes herein (Town of Marana Standard Detail 730-401) the Project Plans shall note the change on the Project Plan's General Note Sheet and be edited where appropriate to fit the Project.

It is intended that Notes 40-41 of this Traffic Signal Standard be placed on the Project Plans in their entirety and edited where appropriate to fit the Project.

40. The Design Speed for _____ is _____ mph. The Posted Speed for _____ is _____ mph.

41. The Contractor is advised of the utility contacts as indicated in the following table:

Utility	Contact	Phone No.
Tucson Electric Power Co	Gary Goulin	
QWEST	Steve Johnson	
AT&T Communications	Mike O'Neill	
Comcast Cable Communications	Mike Gin	
Pima County Wastewater Management	Bob Decker	
Southwest Gas Corporation	Robert Daniels	
Sprint Communications	Colin Sword	
Marana Water Department	Brad DeSpain	
Tucson Water Department	Tony Tineo	
Trico Electric Cooperative	Chuck Wilcox	

(The designer shall coordinate, verify, and list all utility companies and contacts within the Project limits, and provide the correct information in the table above.)

APPROVED FOR DISTRIBUTION:

07/14/2006

Keith E. Brann, P.E., Date
Town Engineer

Registered Professional Engineer (Civil) Certificate No. 38119 SCOTT A. LESKA Date Signed 7/14 ARIZONA, U.S.A.

MARANA

STANDARD DETAIL		DETAIL NO:
GENERAL TRAFFIC SIGNAL NOTES		730-401a
DATE: 9/9/05	REVISED: 07/14/2006	SHEET 3 OF 3

GENERAL TRAFFIC SIGNAL NOTES (CONTINUED):

17. IMSA 19–1, 16–conductor solid wire cable shall be installed continuous and unspliced from the controller cabinet to the Type "A" or Type "G" pole on each corner. At locations where there are no Type "A" or Type "G" poles, the 16–conductor cable shall be installed to the No. 7 pull box on that corner for future use with a minimum of 30' slack. See Town of Marana's Traffic Signal Cable Schematic Standard Detail and Traffic Signal Wiring Schematic Standard Detail for details.

18. See Town of Marana Typical Traffic Signal Wiring Schematic for wiring details for Vehicular Signal Heads, Pedestrian Signal Heads, Pedestrian Pushbuttons, and EVPE installations.

19. All vehicle detection loop wire shall be #14 AWG, IMSA 51–5–1985 cable. Detector lead–in cables shall be #14 AWG, IMSA 50–2–1984 cable. The detector lead–in cable shall be continuous and unspliced between the controller cabinet and the pull box adjacent to loop. Provide a minimum of five (5) feet of slack as measured from the lip of the pull box opening in the pull box adjacent to the loop detector.

20. All telephone interconnect cable, and detector lead–in cable shall be continuous and unspliced.

21. The video detection cable shall be installed, continuous and unspliced, from the video camera mounting (attached to the luminaire mast arm) to the controller cabinet.

22. The emergency vehicle preemption sensor cable shall be 3M–Opticom Detector Cable Model No. 138 or approved equal as specified by the Town Engineer or His/Her Designee.

23. The conductors for the emergency vehicle preemption sensor and beacon shall be routed to the traffic signal head at the mast arm tip or as specified on the Project Plans, Special Provisions and/or the Town Engineer or His/Her Designee. Provide lengths as required by the Town Engineer or His/Her Designee.

24. The location of preemption sensors shall be in accordance with Standard Details 730–410 thru 730–417 or as approved by the Town Engineer prior to the installation of the sensors. All vehicle detection loops shall be centered within the pavement of the travel lane or as approved by the Town Engineer.

25. Vehicle Detection Loops shall be installed prior to the final lift of pavement. For loops installed after the final lift, detection loop sawcuts shall be flushed with water under pressure and then dried with air under pressure prior to applying loop sealant.

26. All side by side 6' X 6' loops shall have a separate Detector Loop Lead–in Cable.

27. All signal housings shall be polycarbonate and black. All visors shall be painted black and material approved by the Town Engineer or His/Her Designee prior to ordering and installation.

28. All vehicular signal faces shall be 12 inch and all lenses shall be polycarbonate. All signal indications shall be LED, except the yellow ball and yellow arrow indications mounted overhead on a mast arm, which shall be incandescent. All yellow indications (yellow ball and yellow arrow) within a vehicular signal face, not mounted on an overhead mastarm, shall be LED. All Pedestrian signal faces shall be LED Countdown Style Pedestrian Signal Heads as provided in the MUTCD 2003 ed. (Section 4E.07)

29. There shall be a minimum of two circuits (each with a separate electrical phase) for the intersection safety lighting and Internally Illuminated Street Name Sign (IISNS) circuit. There shall be a minimum of two circuits provided to each pole's hand hole with solid No. 10 AWG THHW conductors. The luminaires shall be wired such that circuit No. 1 luminaires are on its diagonally opposite counterpart. The other diagonally opposing luminaires shall be wired on circuit No. 2. The IISNS shall be wired using the opposite circuit from the luminaire, on the same pole, that the luminaires are wired. All IISNS shall be installed and wired from the pull box to the IISNS unspliced.

30. Three (3) No. 10 AWG–THHW Conductors shall be installed from each luminaire to the pole's adjacent pull box that the luminaire is mounted on and shall be unspliced, leaving a minimum of five (5) feet of slack as measured from the pull box lip opening. Install a 15–amp in–line fuse for each luminaire in the associated #7 pull box.

31. For each luminaire circuit, three (3) conductors, THHW No. 10 AWG, shall be pulled from the power service cabinet to the poles adjacent pull box unspliced.

32. Prior to construction of pole foundations, grade slope to ensure that top of foundations are not exposed more than 6" above final grade. Grade all pole foundations, cabinet foundations, pull boxes and the ilk such that drainage of water flows away from the equipment being constructed and/or installed.

33. The Contractor shall contact the electrical utility public improvement coordinator to verify the service connection requirements and the location of the electric service connection for the traffic signal at each intersection. The Contractor shall be responsible for excavating and backfilling the trench and installing any necessary sleeves under sidewalks or driveways. The Contractor is responsible for installing the required conduit infrastructure between the service point and the UPS/meter pedestal according to the utility electrical service provider's requirements. The electrical utility will install the electrical cable in the conduit between these two locations or as provided on the Project Plans.

APPROVED FOR DISTRIBUTION:

07/14/2006

Keith E. Brann, P.E., Town Engineer — Date

Registered Professional Engineer (Civil) — Certificate No. 38119 — SCOTT A. LESKA — Date Signed 7-12-06 — ARIZONA, U.S.A.

MARANA

STANDARD DETAIL		DETAIL NO:
GENERAL TRAFFIC SIGNAL NOTES		730–401a
DATE: 9/9/05	REVISED: 07/14/2006	SHEET 2 OF 3

GENERAL TRAFFIC SIGNAL NOTES:

1. All equipment/materials and construction shall comply with the requirements contained in the Town of Marana Standard Details (latest edition), the Project's Supplemental Specifications, the Special Provisions, the Project Plans, the 2003 Pima County/City of Tucson "Standard Specifications for Public Improvements", and the Pima County/City of Tucson "Standard Details for Public Improvements".

2. All pedestrian push button assemblies shall comply with current ADA requirements. The pedestrian pushbutton signs shall be the R10–3e as identified in the Manual on Uniform Traffic Control Devices (MUTCD), latest edition.

3. Internally Illuminated Street Name Signs (IISNS) shall be installed such that the sign is mounted directly to the vertical shaft of the pole, located above the signal mast arm and positioned such that the sign is side mounted on the street side of the pole. The Contractor shall submit a sign detail and mounting detail to the Town for review a minimum of three (3) weeks prior to the estimated installation date for Town's approval.

4. The exact location of each new pole foundation, pull box, controller cabinet foundation, and UPS/electric service pedestal foundation shall be approved by the Town Engineer or His/Her Designee prior to final placement, installation, and/or construction.

5. The top of the pole foundation shall be level and six (6) inches above the finished grade. Provide extended bolts for all pole foundations to allow for future elevation adjustments.

6. All Conduit, Cable, Wire, Poles, Posts, Signs, Equipment, Materials and Appurtenances supplied for the Project shall be furnished and purchased new and unused. The new equipment, materials and appurtenances shall be ordered and delivered for this specific Project only. The Contractor shall provide a submittal list of all proposed materials along with the material specifications to the Town for all materials to be incorporated in the Project to the Town Engineer for review and approval prior to construction. The Town Engineer shall inspect and approve the said requested equipment, material and/or appurtenances prior to use and/or installation. The said material in no way shall be used without written consent from the Town Engineer. The Town reserves the right to refuse to allow the installation of any and all equipment the Contractor submits for approval if it chooses without cause, justification and/or recourse. If Contractor installs the materials without prior written consent from the Engineer, the Contractor shall remove and replace the equipment with acceptable new equipment and/or material(s) at his/her sole expense.

7. All new conduit as shown on the Project Plans shall be installed a minimum of 30 inches below finished grade. Conduit installed under roadways, driveways, or any open areas subject to vehicles, or conduits with conductors that have voltages over 250 volts, shall be installed a minimum of 36 inches below finished grade unless stated otherwise on the Project Plans or in the Special Provisions.

(Cont.)

8. Any conduit installed shallower than 30 inches below finished grade shall be encased in concrete per Pima County/City of Tucson "Standard Specifications for Public Improvements", 2003 edition, Subsection 732–3.01 (G).

9. Prior to the Town's acceptance and prior to pulling conductor, cable, wire and/or fiber optic cables, all conduit(s) (new and existing) to be incorporated into the new system as provided for on the Project Plans shall be cleaned and blown out with compressed air in the presence of the Town's inspector. A properly sized conduit piston or mandrel shall be pulled through the entire conduit system in the presence of the Town's inspector prior to conductor, cable or wire installation to ensure that no obstructions or debris exist in the conduit. No water or moisture shall remain in conduit(s) prior to installing conductors.

10. Conduit installed under existing paved driveway(s), sidewalk(s), and pavement that are not scheduled to be reconstructed as part of the Project shall be installed by means of boring or directional drilling.

11. Pull boxes shall not be installed within concrete curb access ramp(s) or sidewalk(s). Any pull boxes installed behind curb(s) shall be installed between the curb and the proposed/future sidewalk or beyond the proposed/future sidewalk in accordance with the Project Plans and Special Provisions. An exception to this requirement is permitted for pull boxes installed within a median or as otherwise called for on the Project Plans, Special Provisions, or by the Town Engineer or His/Her Designee.

12. Any pull boxes installed along an uncurbed roadway shall be installed adjacent to, but not within, the shoulder.

13. A ¾" diameter x 10' long ground rod (copper) shall be installed in all #7 pull boxes used for the High Voltage conductors. A ¾" diameter x 10' long ground rod (copper) shall be installed in the home run pull box (No. 7 with extension) adjacent to the controller cabinet. Two ground rod clamps shall be furnished for grounding the ground wire on each ground rod.

14. Two (2) ¾" diameter x 10' long ground rods (copper) shall be installed in the controller cabinet foundation a minimum of 8 feet apart. See Town of Marana's Controller Cabinet Foundation Standard Detail (730–210) for details.

15. The high voltage cables and conductors shall be separated from the low voltage cables and conductors, and shall be installed/constructed in separate conduit.

16. IMSA 19–1 20–conductor solid wire cable shall be installed continuous and unspliced from the controller cabinet through the No. 7 pull box on each corner to the poles traffic signal head wire splicing compartment.

APPROVED FOR DISTRIBUTION:

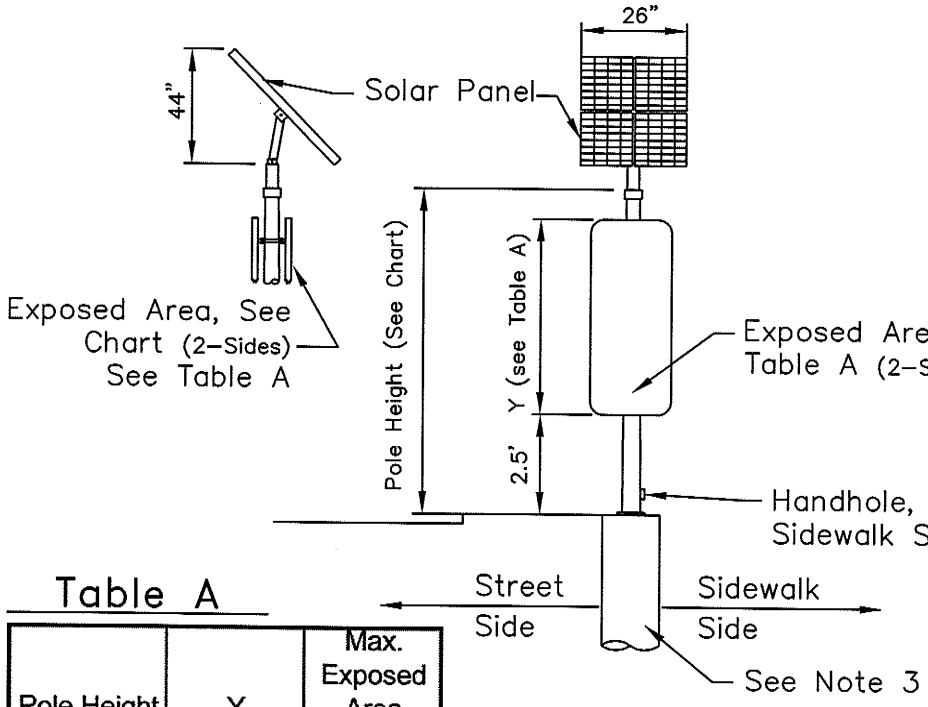
07/14/2006

Keith E. Brann, P.E., Town Engineer — Date

Registered Professional Engineer (Civil) — Certificate No. 38119 — SCOTT A. LESKA — Date Signed 7/14/06 — ARIZONA, U.S.A.

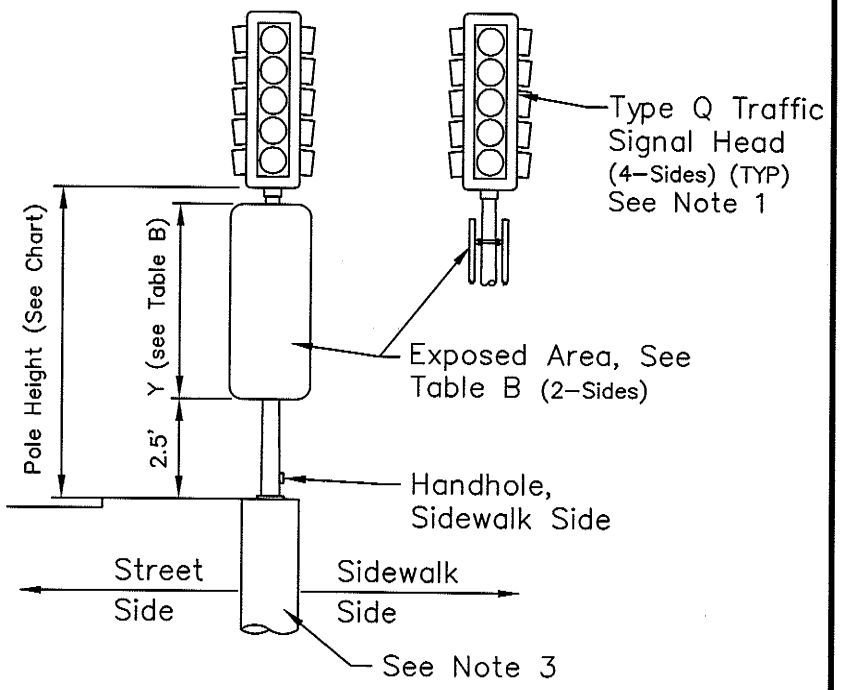
MARANA

STANDARD DETAIL		DETAIL NO:
GENERAL TRAFFIC SIGNAL NOTES		730–401a
DATE: 9/9/05	REVISED: 07/14/2006	SHEET 1 OF 3



Type A Pole With Solar Panel

Not To Scale



Type A Pole With Signal Head

Not To Scale

Table A

Pole Height	Y	Max. Exposed Area
7'	4.5'	45 sq. ft.
10'	7.5'	40 sq. ft.
12'	9.5'	35 sq. ft.
15'	12.5'	30 sq. ft.

Table B

Pole Height	Y	Max. Exposed Area
7'	4.5'	30 sq. ft.
10'	7.5'	25 sq. ft.
12'	9.5'	20 sq. ft.
15'	12.5'	15 sq. ft.

NOTES:

1. A maximum of one (1) four-sided signal head (4-Q) shall be installed on the pole as shown.
2. The Designer shall provide additional structural analysis for any deviations from the dimensions shown which will result in increased structural loading.
3. Foundation shall be a minimum of 6' in depth as measured from the top of finished grade and a minimum of 3' in diameter. All other foundation requirements shall adhere to Pima County/City of Tucson's Standard Details for Public Improvements, 2003 Ed.
4. The total exposed area shall be measured by the largest exposed area of a single installed item. Items may include signs, traffic signal heads, controller cabinets, etc.

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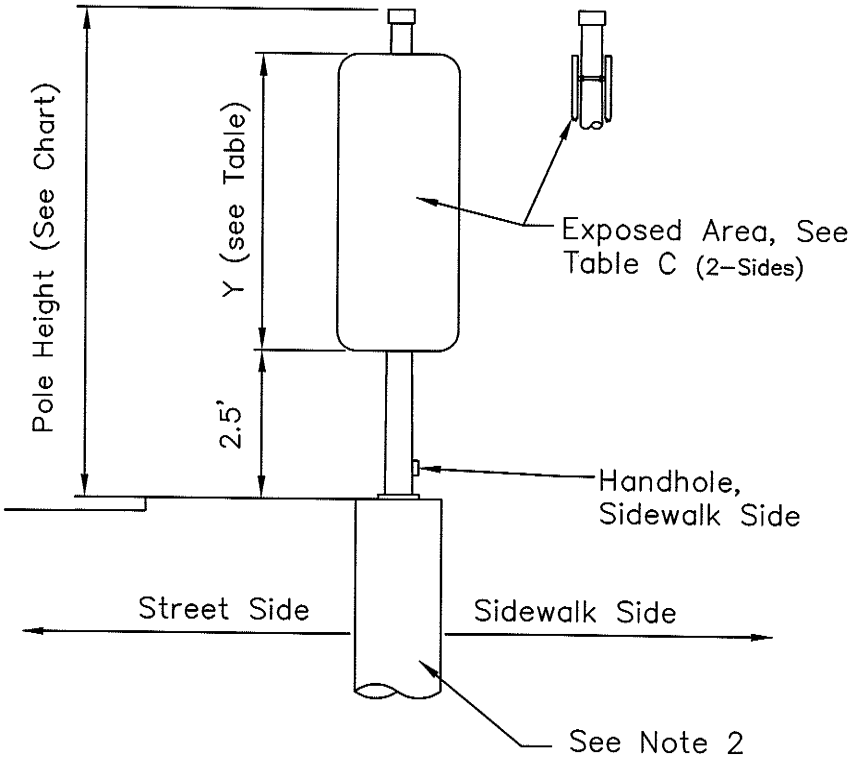
4/14/2006

Keith E. Brann, P.E., Town Engineer — Date

Registered Professional Engineer (Civil) — 38118 — Scott A. Leska — Arizona, U.S.A.

TOWN OF MARANA ARIZONA

STANDARD DETAIL		DETAIL NO:
POLE LOADING DETAIL TYPE A POLE		730-408
DATE: 4/14/06	REVISED:	SHEET 1 OF 2



Type A Pole

Not To Scale

NOTES:

1. The Designer shall provide additional structural analysis for any deviations from the dimensions shown which will result in increased structural loading.
2. Foundation shall have a minimum depth as shown in Table C, and shall be measured from the top of finished grade. The foundation shall have a minimum diameter of 3'. All other foundation requirements shall adhere to Pima County/City of Tucson's Standard Details for Public Improvements, 2003 Ed.
3. The total exposed area shall be measured by the largest exposed area of a single installed item. Items may include signs, traffic signal heads, controller cabinets, etc.

Table C

Pole Height	Y	Max. Exposed Area (6ft Drilled Shaft)	Max. Exposed Area (3ft Drilled Shaft)
7'	4.5'	60 sq. ft.	35 sq. ft.
10'	7.5'	55 sq. ft.	30 sq. ft.
12'	9.5'	50 sq. ft.	25 sq. ft.
15'	12.5'	45 sq. ft.	20 sq. ft.

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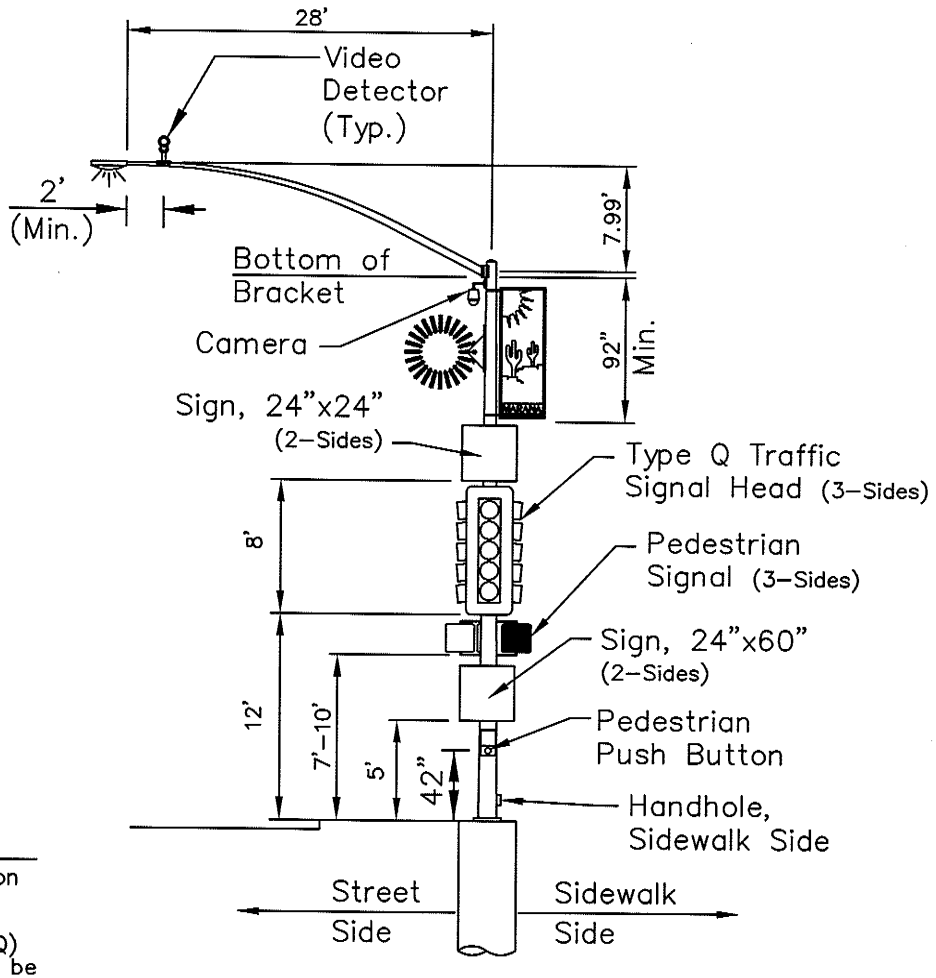
4/14/2006

Keith E. Brann, P.E., Town Engineer — Date

Registered Professional Engineer (Civil) — Certificate No. 38119 — Scott A. Leska — Date Signed 04-14-06 — Arizona, U.S.A.

TOWN OF MARANA ARIZONA

STANDARD DETAIL	DETAIL NO:
POLE LOADING DETAIL TYPE A POLE	730-408
DATE: 4/14/06 REVISED:	SHEET 2 OF 2



Type Q Pole
30' Mast Arm
Not To Scale

NOTES:

1. A maximum 20' length mast arm shall be installed on the Type G pole standard.
2. A maximum of one (1) three-sided signal head (3-Q) and one (1) three-sided pedestrian signal head shall be installed on the pole as shown.
3. Mast arm dimensions are measured from bracket connection point of upright to tip of mast arm.
4. The Designer shall provide additional structural analysis for any deviations from the dimensions shown which will result in increased structural loading.

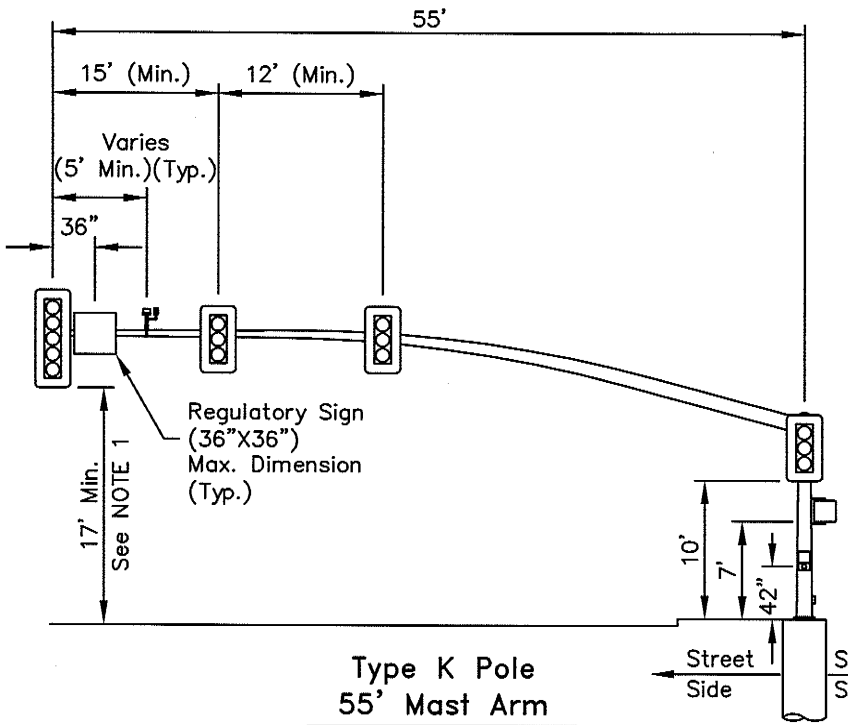
APPROVED FOR DISTRIBUTION:

4/14/2006

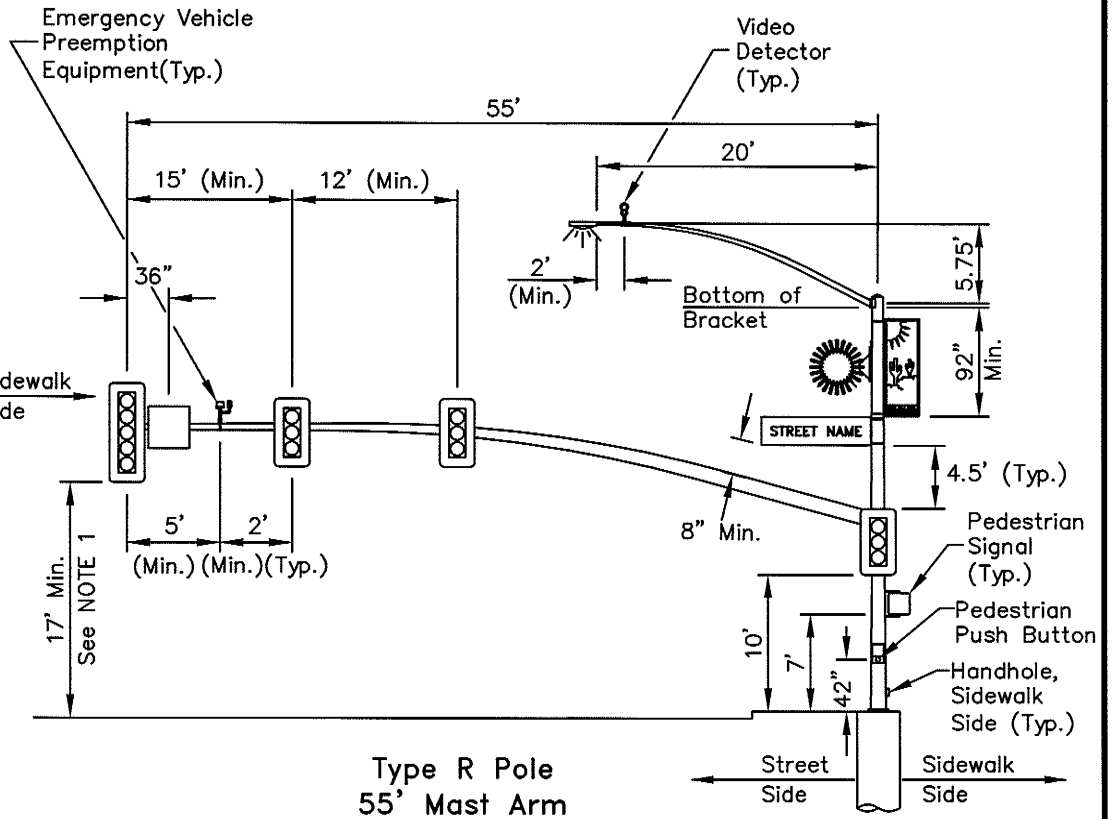
Keith E. Brann, P.E., Date
Town Engineer

Marana Regular Council Meeting 06/21/2016

STANDARD DETAIL		DETAIL NO:
POLE AND MAST ARM LOADING DETAIL TYPE G POLE WITH 20 FT. MAST ARM		730-409
DATE: 4/14/06	REVISED:	SHEET 1 OF 1



Type K Pole
55' Mast Arm
Not To Scale



Type R Pole
55' Mast Arm
Not To Scale

NOTES:

1. There shall be a minimum of 17' clearance between the surface of the pavement and the bottom of each signal head back plate mounted on the mast arm.
2. A maximum of 3 signal heads (1–Q, 2–F) may be installed on the 55' mast arm as shown.
3. Mast arm dimension measured from center of upright to tip of mast arm.
4. The Designer shall provide additional structural analysis for any deviations from the dimensions shown which will result in increased structural loading.

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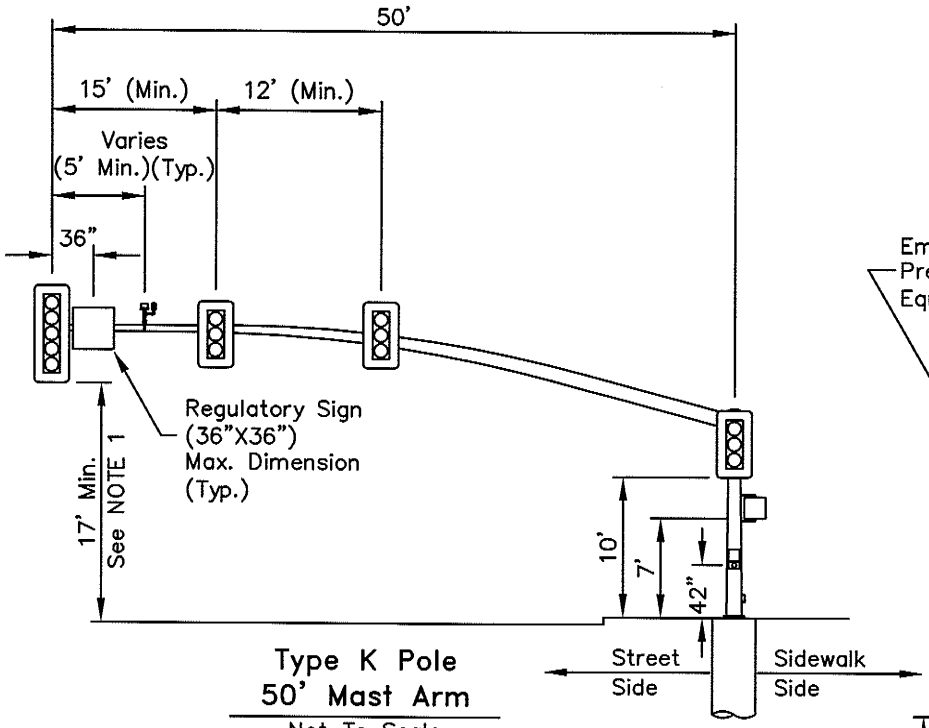
9/9/2005

Keith E. Brann, P.E., Date
Acting Town Engineer

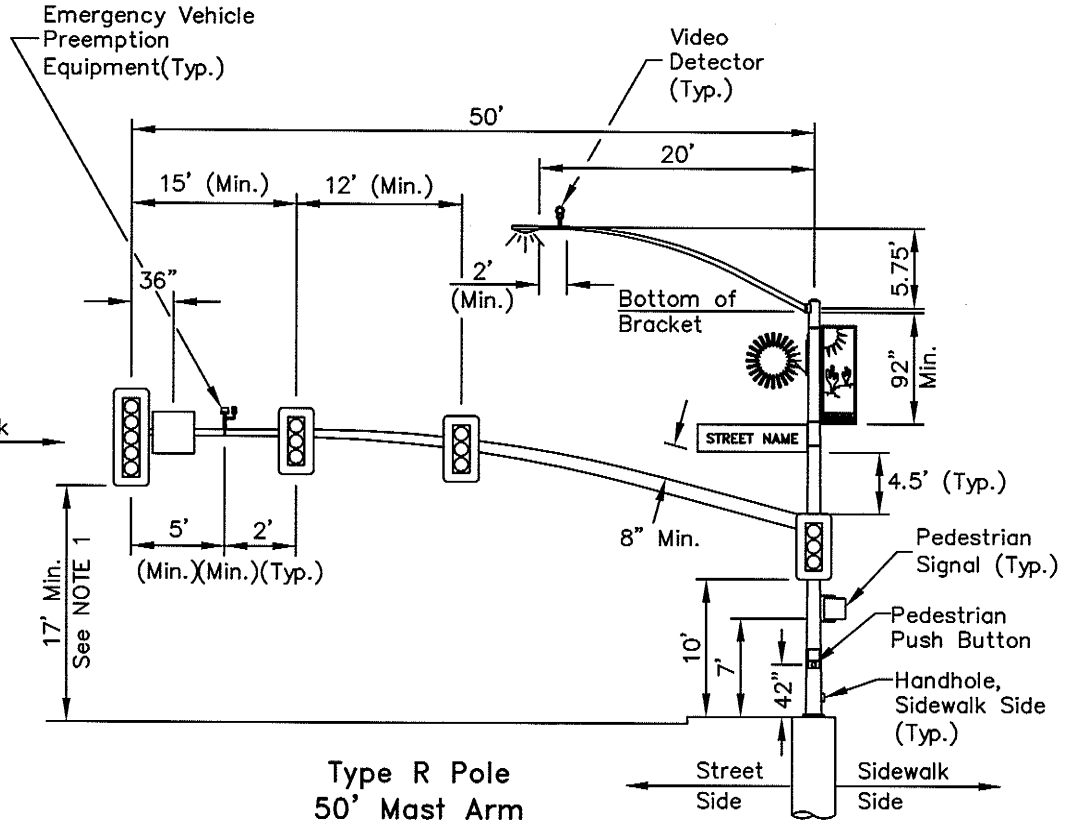
Registered Professional Engineer (Civil) No. 38119 SCOTT A. LESKA Date Signed 9/9/05 ARIZONA, U.S.A.

TOWN OF MARANA ARIZONA 1977

STANDARD DETAIL		DETAIL NO:
MAST ARM LOADING DETAIL TYPE K AND R POLE WITH 55 FT. MAST ARM		730–410
DATE: 9/9/05	REVISED:	SHEET 1 OF 1



Type K Pole
50' Mast Arm
Not To Scale



Type R Pole
50' Mast Arm
Not To Scale

NOTES:

1. There shall be a minimum of 17' clearance between the surface of the pavement and the bottom of each signal head back plate mounted on the mast arm.
2. A maximum of 3 signal heads (1–Q, 2–F) may be installed on the 50' mast arm as shown.
3. Mast arm dimension measured from center of upright to tip of mast arm.
4. The Designer shall provide additional structural analysis for any deviations from the dimensions shown which will result in increased structural loading.

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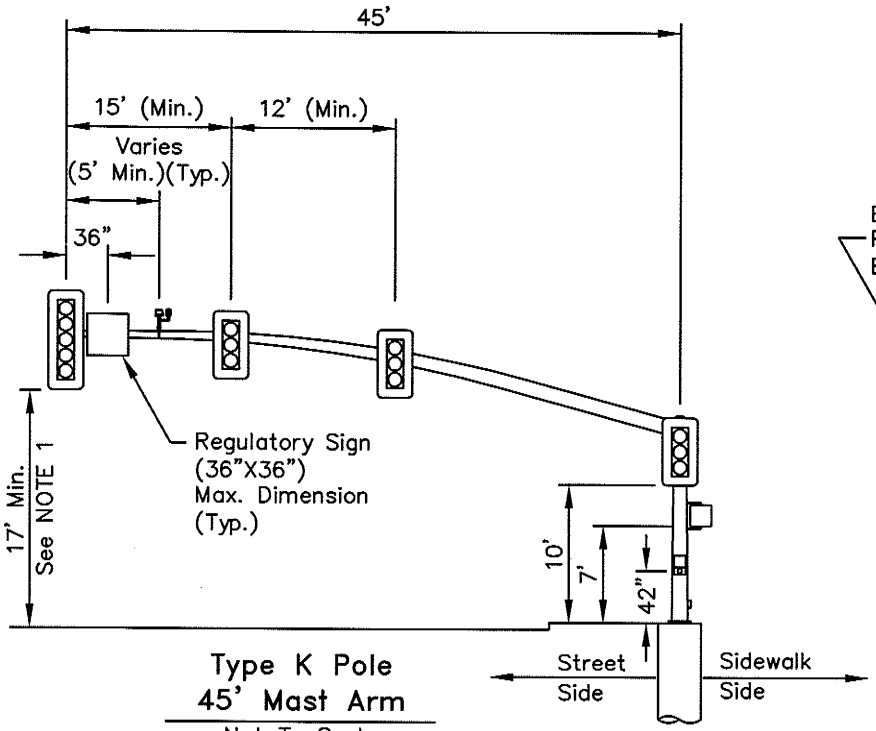
9/9/2005

Keith E. Brann, P.E., Date
Acting Town Engineer

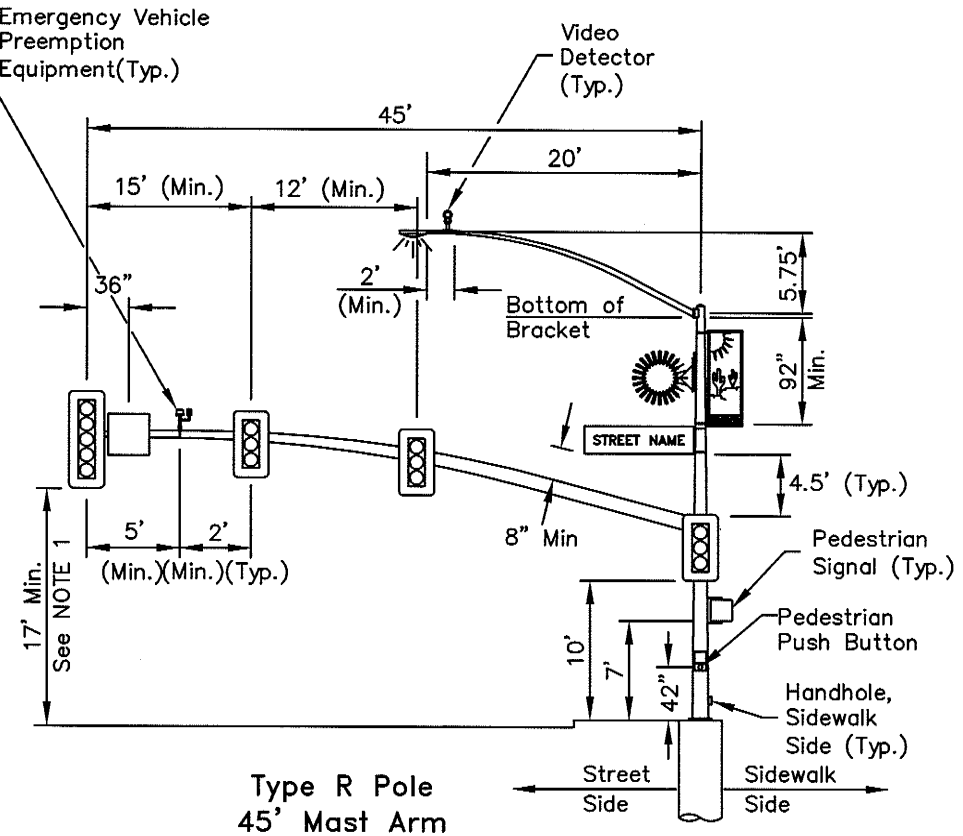
Professional Engineer (Civil) Reg. No. 38119 SCOTT A. LESKA Date Signed 9/9/05 ARIZONA, U.S.A.

TOWN OF MARANA 1977 ARIZONA

STANDARD DETAIL	DETAIL NO:
MAST ARM LOADING DETAIL TYPE K AND R POLE WITH 50 FT. MAST ARM	730–411
DATE: 9/9/05 REVISED:	SHEET 1 OF 1



Type K Pole
45' Mast Arm
Not To Scale



Type R Pole
45' Mast Arm
Not To Scale

NOTES:

1. There shall be a minimum of 17' clearance between the surface of the pavement and the bottom of each signal head back plate mounted on the mast arm.
2. A maximum of 3 signal heads (1–Q, 2–F) may be installed on the 45' mast arm as shown.
3. Mast arm dimension measured from center of upright to tip of mast arm.
4. The Designer shall provide additional structural analysis for any deviations from the dimensions shown which will result in increased structural loading.

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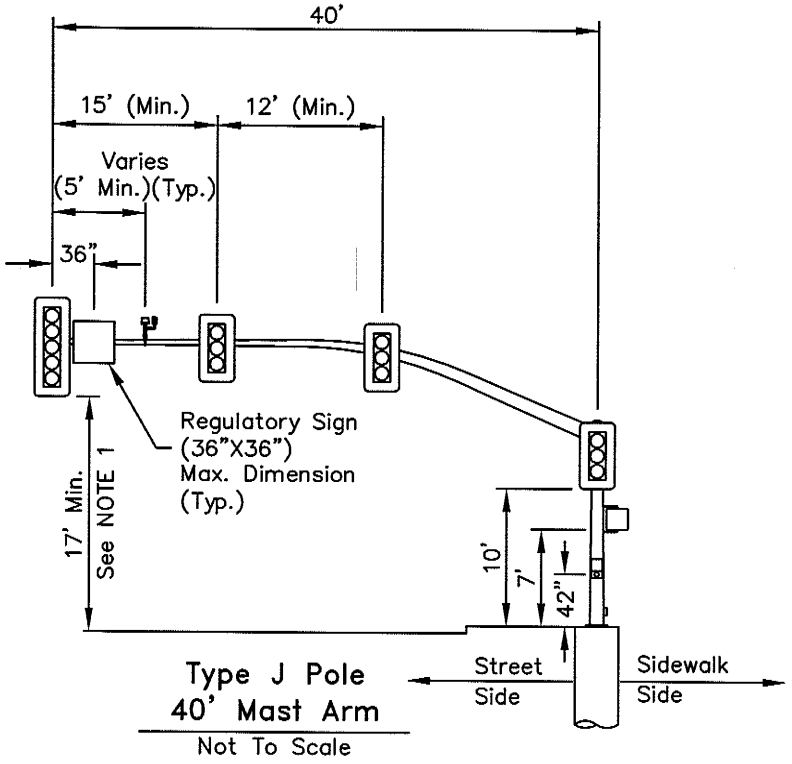
9/9/2005

Keith E. Brann, P.E., Date
Acting Town Engineer

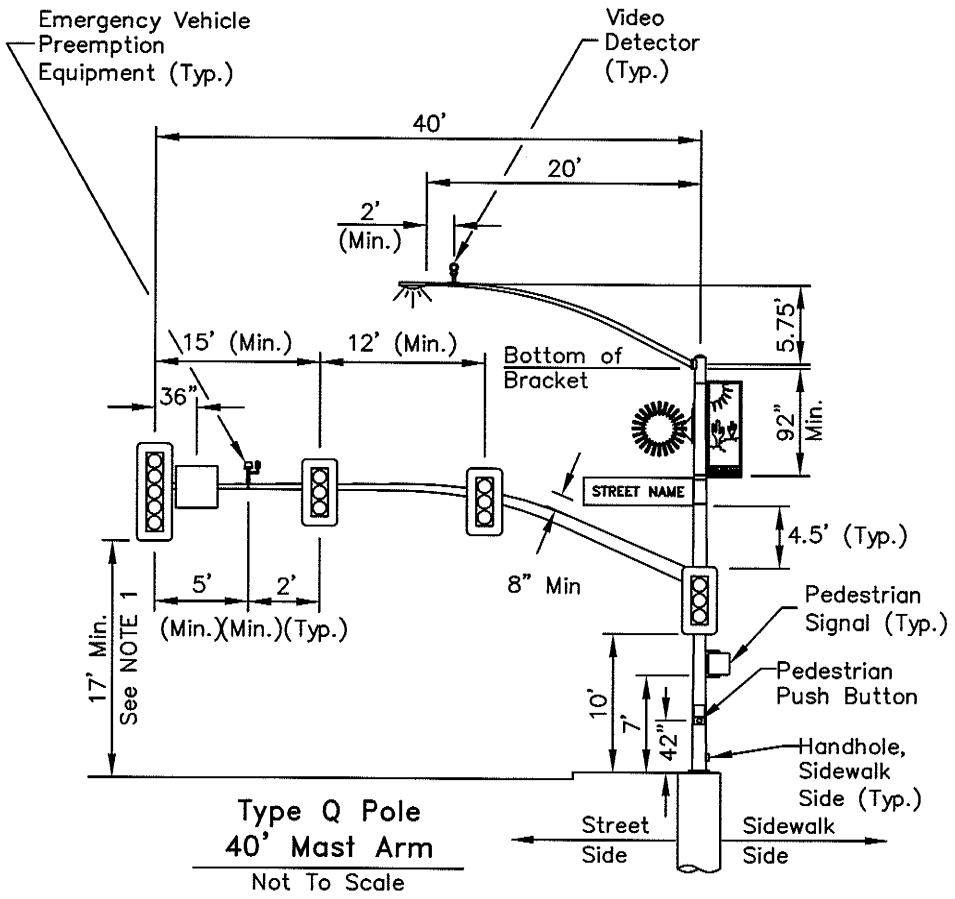
Registered Professional Engineer (Civil) 38119 SCOTT A. LESKA Date Signed 9-9-05 ARIZONA, U.S.A.

TOWN OF MARANA ARIZONA 1977

STANDARD DETAIL	DETAIL NO:
MAST ARM LOADING DETAIL TYPE K AND R POLE WITH 45 FT. MAST ARM	730–412
DATE: 9/9/05 / REVISED:	SHEET 1 OF 1



Type J Pole
40' Mast Arm
Not To Scale



Type Q Pole
40' Mast Arm
Not To Scale

NOTES:

1. There shall be a minimum of 17' clearance between the surface of the pavement and the bottom of each signal head back plate mounted on the mast arm.
2. A maximum of 3 signal heads (1–Q, 2–F) may be installed on the 40' mast arm as shown.
3. Mast arm dimension measured from center of upright to tip of mast arm.
4. The Designer shall provide additional structural analysis for any deviations from the dimensions shown which will result in increased structural loading.

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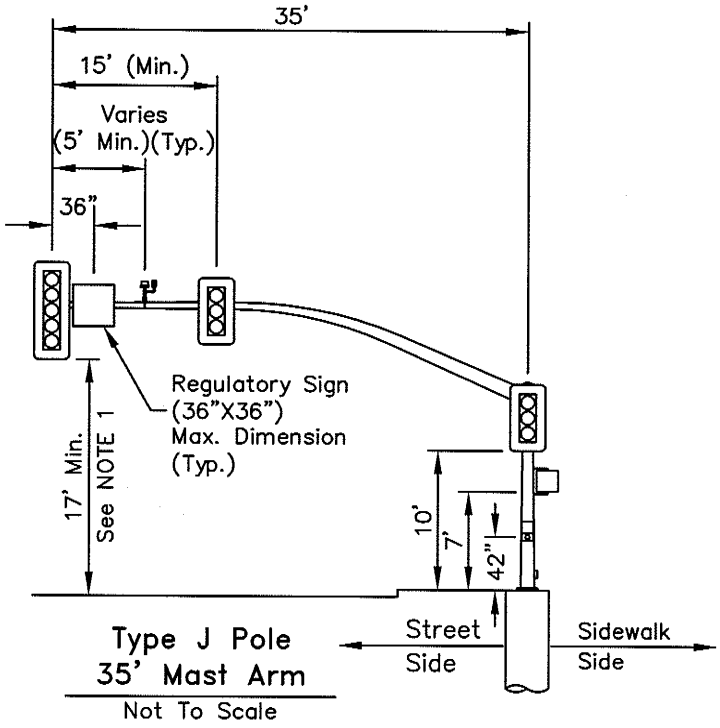
9/9/2005

Keith E. Brann, P.E., Date
Acting Town Engineer

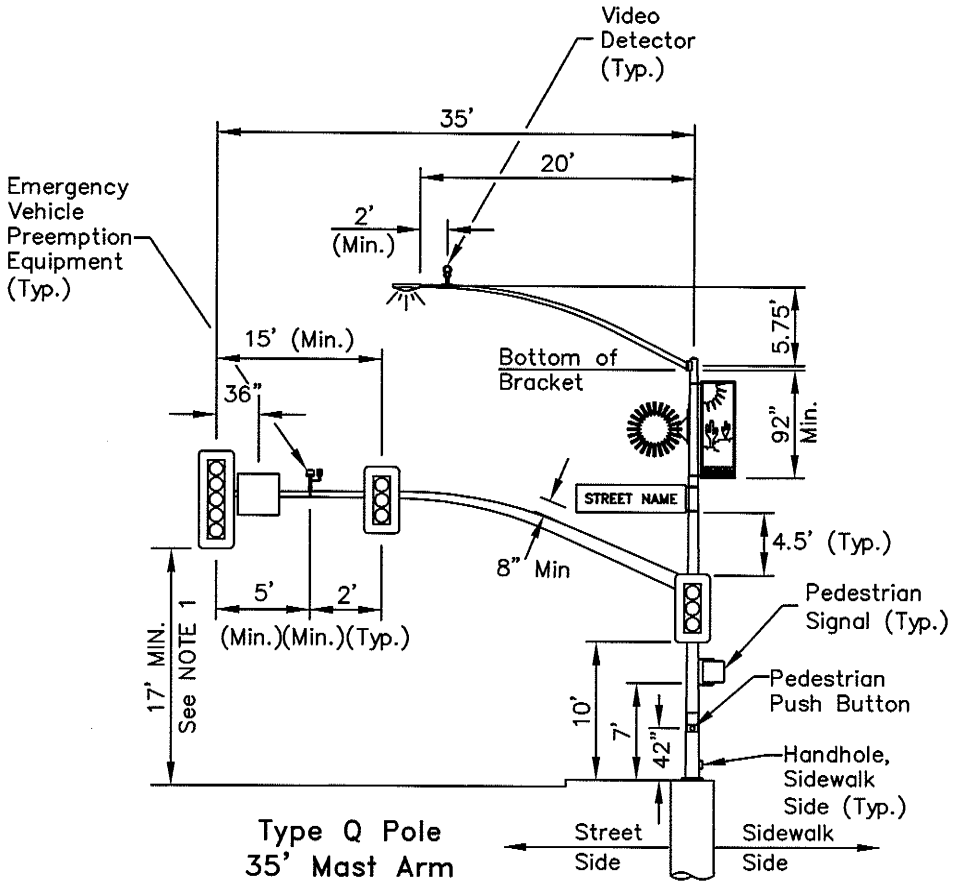
Registered Professional Engineer (Civil) 38119 SCOTT A. LESKA Date Signed 9/9/05 ARIZONA, U.S.A.

TOWN OF MARANA ARIZONA

STANDARD DETAIL	DETAIL NO:
MAST ARM LOADING DETAIL TYPE J AND Q POLE WITH 40 FT. MAST ARM	730–413
DATE: 9/9/05 / REVISED:	SHEET 1 OF 1



Type J Pole
35' Mast Arm
Not To Scale



Type Q Pole
35' Mast Arm
Not To Scale

NOTES:

1. There shall be a minimum of 17' clearance between the surface of the pavement and the bottom of each signal head back plate mounted on the mast arm.
2. A maximum of 2 signal heads (1–Q, 1–F) may be installed on the 35' mast arm as shown.
3. Mast arm dimension measured from center of upright to tip of mast arm.
4. The Designer shall provide additional structural analysis for any deviations from the dimensions shown which will result in increased structural loading.

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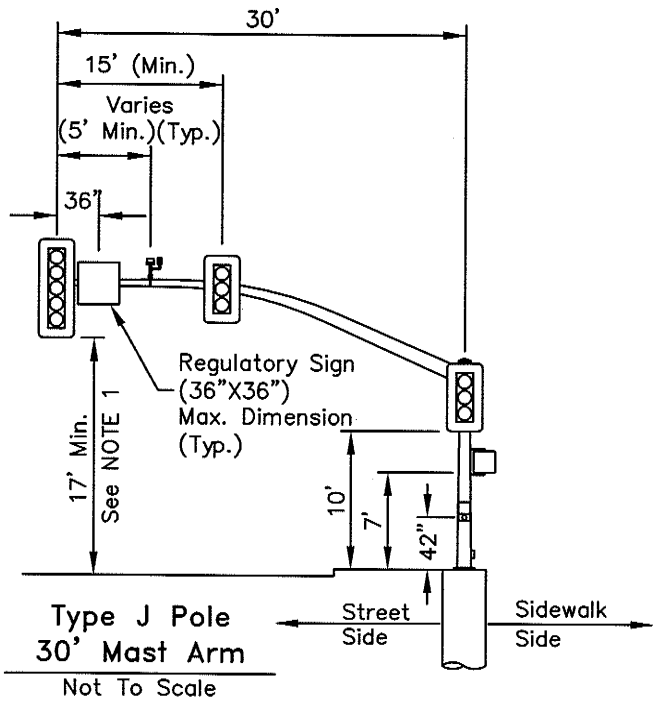
9/9/2005

Keith E. Brann, P.E., Date
Acting Town Engineer

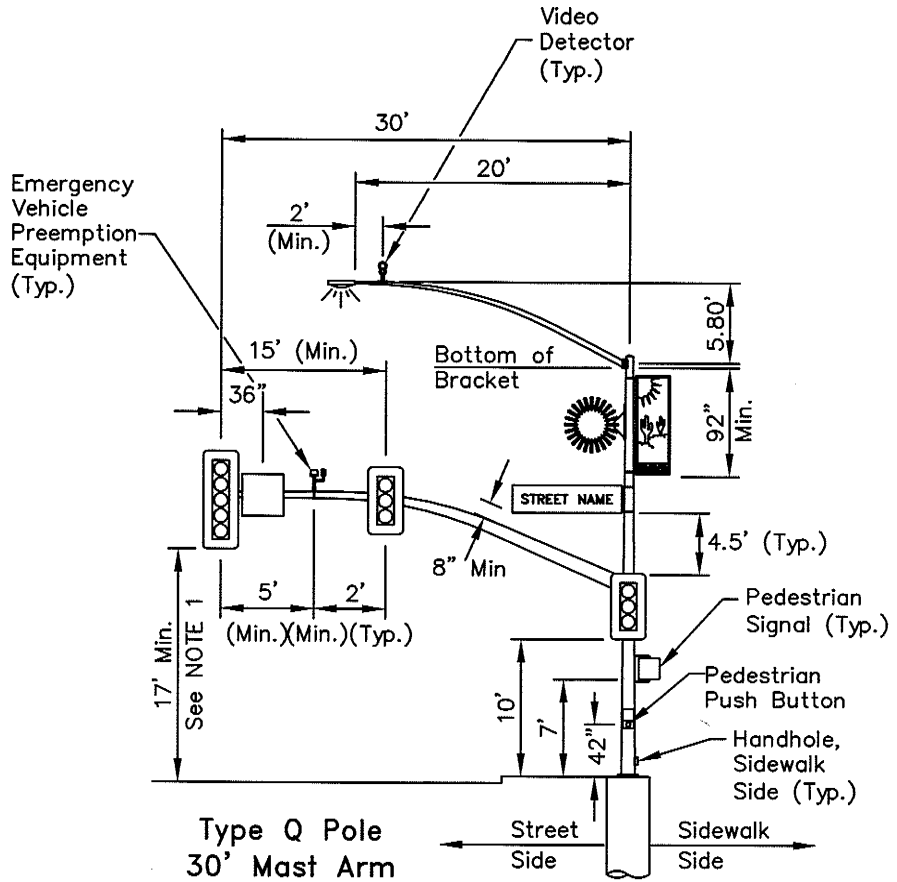
Registered Professional Engineer (Civil)
38119
SCOTT A. LESKA
Date Signed 9/9/05
ARIZONA, U.S.A.

TOWN OF MARANA 1977 ARIZONA

STANDARD DETAIL	DETAIL NO:
MAST ARM LOADING DETAIL TYPE J AND Q POLE WITH 35 FT. MAST ARM	730–414
DATE: 9/9/05 / REVISED:	SHEET 1 OF 1



Type J Pole
30' Mast Arm
Not To Scale



Type Q Pole
30' Mast Arm
Not To Scale

NOTES:

1. There shall be a minimum of 17' clearance between the surface of the pavement and the bottom of each signal head back plate mounted on the mast arm.
2. A maximum of 2 signal heads (1–Q, 1–F) may be installed on the 30' mast arm as shown.
3. Mast arm dimension measured from center of upright to tip of mast arm.
4. The Designer shall provide additional structural analysis for any deviations from the dimensions shown which will result in increased structural loading.

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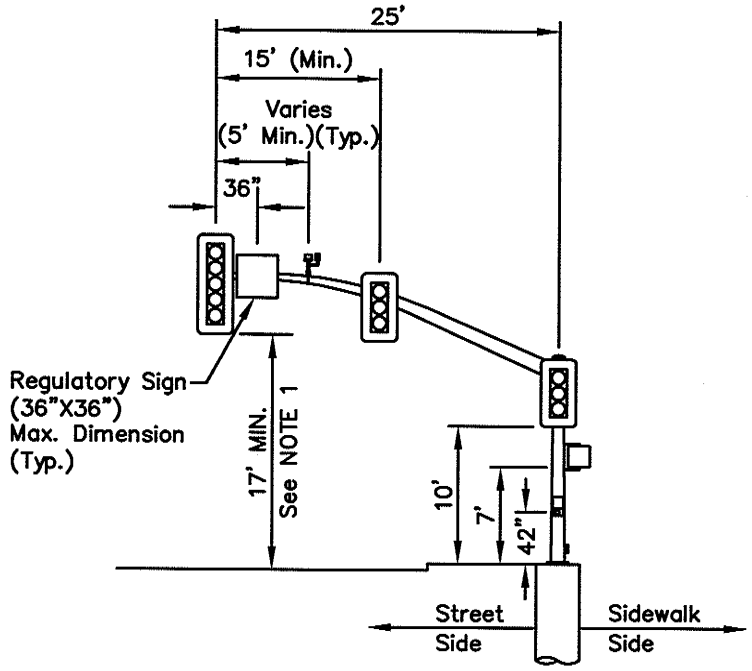
9/9/2005

Keith E. Brann, P.E., Date
Acting Town Engineer

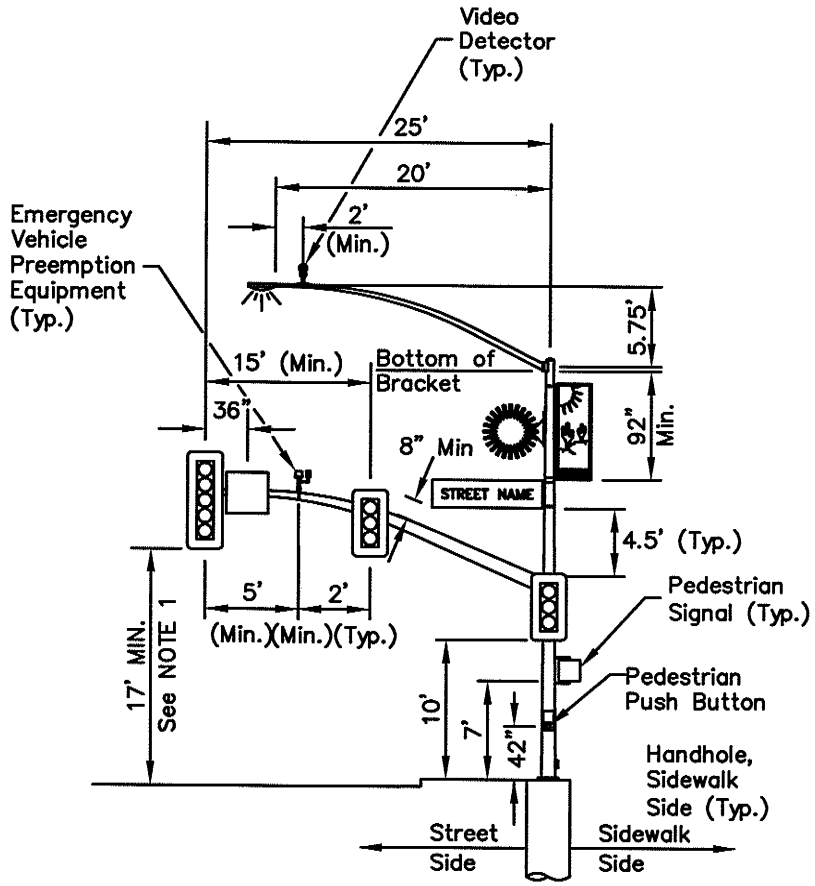
Registered Professional Engineer (Civil) — 38119 — SCOTT A. LESKA — Date Signed 9/9/05 — ARIZONA, U.S.A.

TOWN OF MARANA ARIZONA 1977

STANDARD DETAIL	DETAIL NO:
MAST ARM LOADING DETAIL TYPE J AND Q POLE WITH 30 FT. MAST ARM	730–415
DATE: 9/9/05 / REVISED:	SHEET 1 OF 1



Type J Pole
25' Mast Arm
Not To Scale



Type Q Pole
25' Mast Arm
Not To Scale

NOTES:

1. There shall be a minimum of 17' clearance between the surface of the pavement and the bottom of each signal head back plate mounted on the mast arm.
2. A maximum of 2 signal heads (1–Q, 1–F) may be installed on the 25' mast arm as shown.
3. Mast arm dimension measured from center of upright to tip of mast arm.
4. The Designer shall provide additional structural analysis for any deviations from the dimensions shown which will result in increased structural loading.

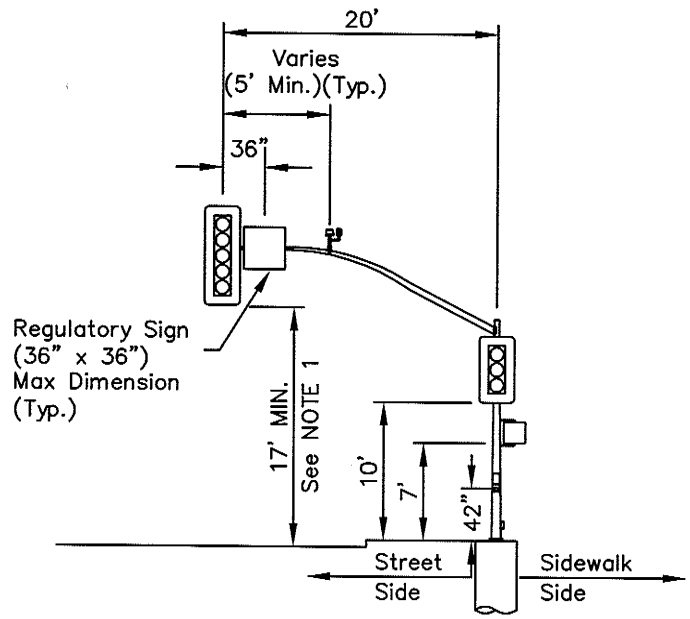
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9/9/2005

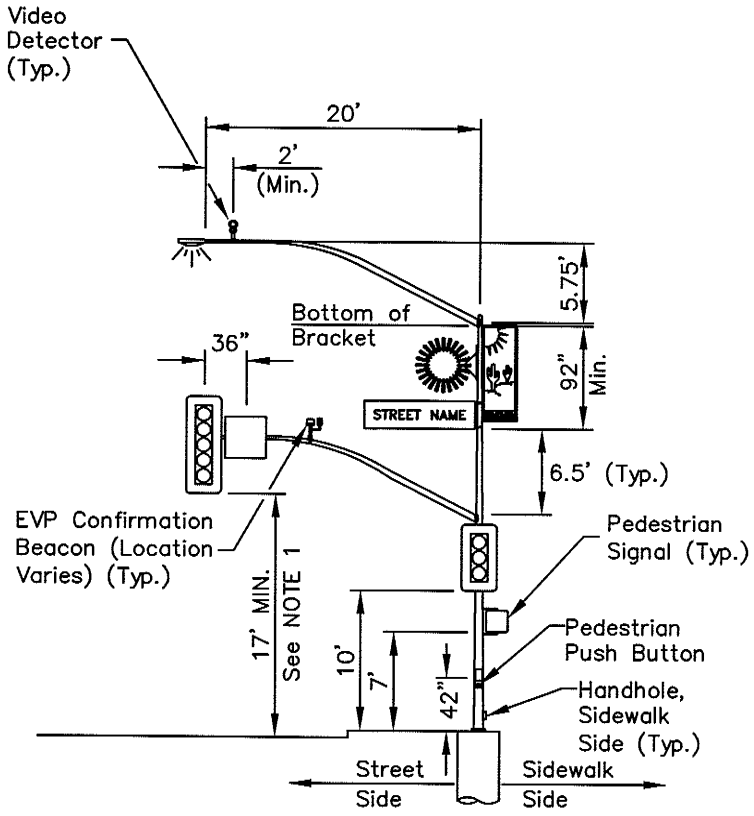
Keith E. Brann, P.E., Date
Acting Town Engineer

Marana Regular Council Meeting 06/21/2016

STANDARD DETAIL		DETAIL NO:
MAST ARM LOADING DETAIL TYPE J AND Q POLE WITH 25 FT. MAST ARM		730–416
DATE: 9/9/05	REVISED:	SHEET 1 OF 1



Type E Pole
20' Mast Arm
Not To Scale



Type F Pole
20' Mast Arm
Not To Scale

NOTES:

1. There shall be a minimum of 17' clearance between the surface of the pavement and the bottom of each signal head back plate mounted on the mast arm.
2. A maximum of 1 signal head (1–Q or 1–F) may be installed on the 20' mast arm as shown.
3. Mast arm dimension measured from center of upright to tip of mast arm.
4. The Designer shall provide additional structural analysis for any deviations from the dimensions shown which will result in increased structural loading.

APPROVED FOR DISTRIBUTION:

9/9/2005

Keith E. Brann, P.E., Date
Acting Town Engineer

Registered Professional Engineer (Civil) 38119 SCOTT A. LESKA Date Signed 9/9/05 ARIZONA, U.S.A.

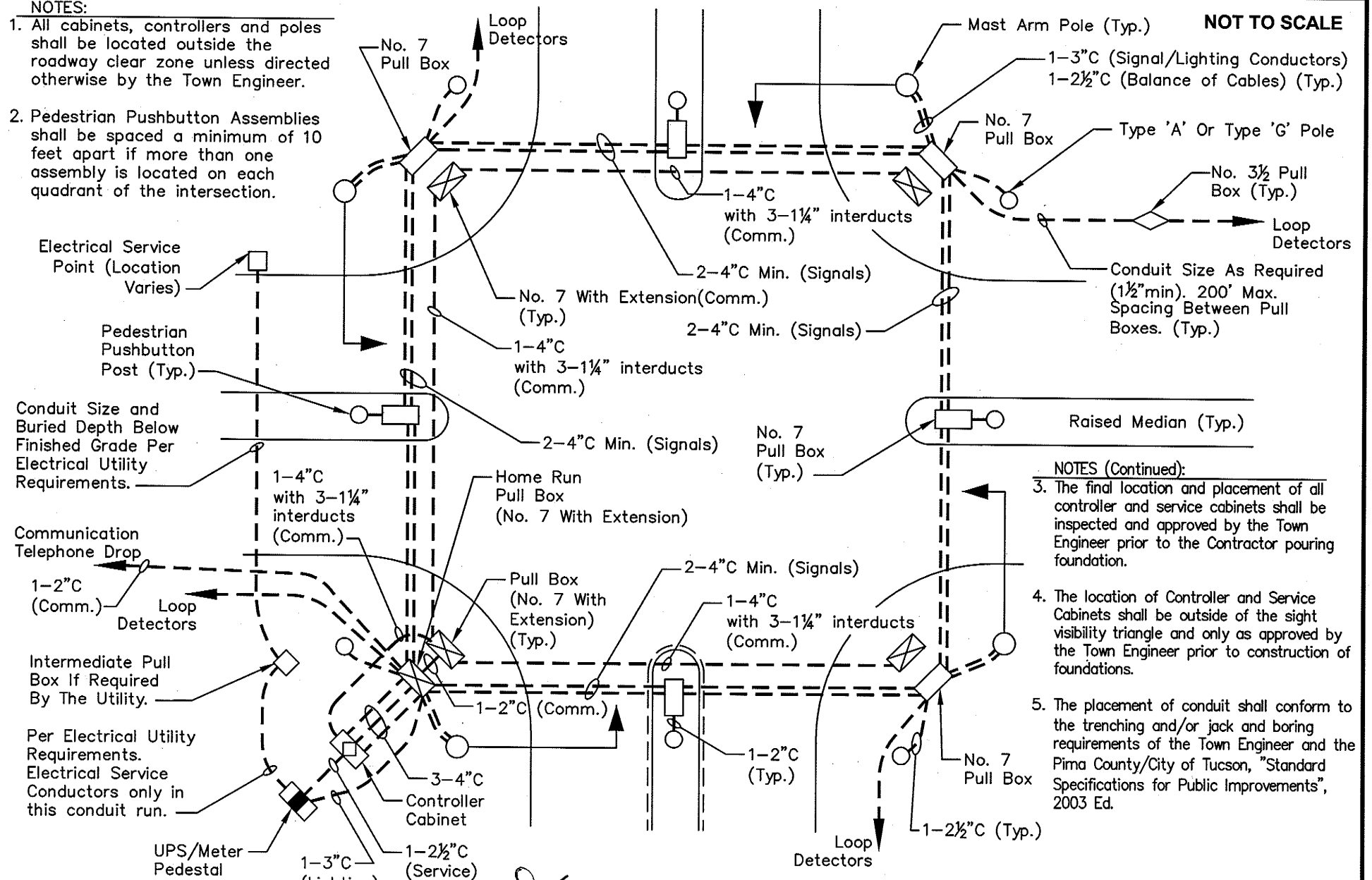
TOWN OF MARANA ARIZONA

STANDARD DETAIL	DETAIL NO:
MAST ARM LOADING DETAIL TYPE E AND F POLE WITH 20 FT. MAST ARM	730–417
DATE: 9/9/05 / REVISED:	SHEET 1 OF 1

NOTES:

1. All cabinets, controllers and poles shall be located outside the roadway clear zone unless directed otherwise by the Town Engineer.
2. Pedestrian Pushbutton Assemblies shall be spaced a minimum of 10 feet apart if more than one assembly is located on each quadrant of the intersection.

NOT TO SCALE



NOTES (Continued):

3. The final location and placement of all controller and service cabinets shall be inspected and approved by the Town Engineer prior to the Contractor pouring foundation.
4. The location of Controller and Service Cabinets shall be outside of the sight visibility triangle and only as approved by the Town Engineer prior to construction of foundations.
5. The placement of conduit shall conform to the trenching and/or jack and boring requirements of the Town Engineer and the Pima County/City of Tucson, "Standard Specifications for Public Improvements", 2003 Ed.

APPROVED FOR DISTRIBUTION:

6/20/2006

Keith E. Brann, P.E. — Date
Town Manager/Engineer

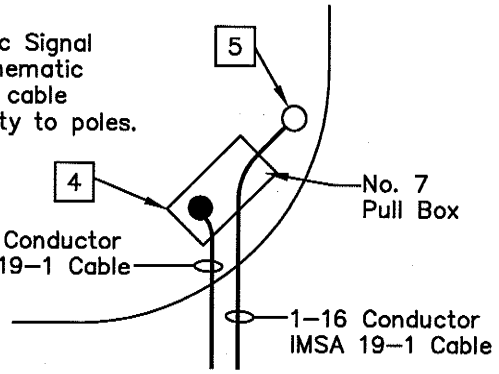
Registered Professional Engineer (Civil) — Certificate No. 38119 — SCOTT A. LESKA — Date Signed — ARIZONA, U.S.A.

TOWN OF MARANA — 1 9 7 7 — ARIZONA

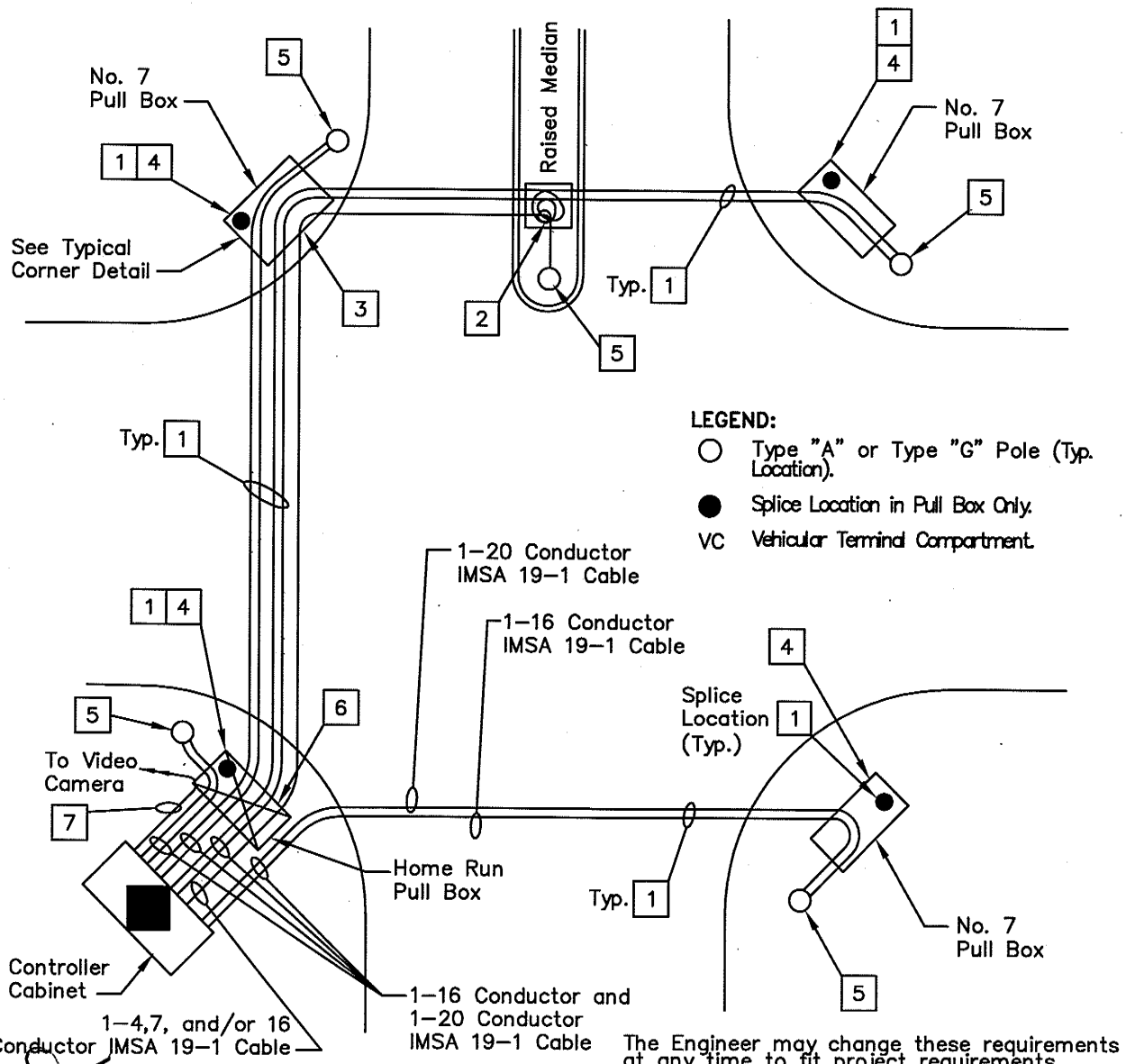
STANDARD DETAIL		DETAIL NO:
TOWN OF MARANA TYPICAL TRAFFIC SIGNAL CONDUIT SCHEMATIC		730–701
DATE: 09/09/05	REVISED: 06/20/06	SHEET 1 OF 1

NOT TO SCALE

NOTE:
See Traffic Signal Wiring Schematic Detail for cable connectivity to poles.



Typical Corner Detail



LEGEND:

- ○ Type "A" or Type "G" Pole (Typ. Location).
- ● Splice Location in Pull Box Only.
- VC Vehicular Terminal Compartment.

NOTES:

1. Splice permitted only at designated splice locations as shown on this plan. Each signal cable as shown shall be continuous and unspliced between the controller cabinet and the corner where it is terminated.
2. Provide 1 wrap of slack (5' min.) for each signal cable at intermediate median pull boxes. (Typ.)
3. Provide 2 wraps of slack (8' min.) for each signal cable passing through this pull box. (No splices permitted)
4. Provide 1 wrap of slack (5' min.) for all signal cables terminating in this pull box.
5. Terminate 4, 7, 16, and 20 Conductor IMSA 19–1 cable in VC on the Ped. Post, Type "A", Type "G", Type "Q", or Type "R" pole on corner. Provide 2 wraps of slack (8' min.) in adjacent pull box.
6. Provide 1 wrap of slack (5' min.) for each signal cable passing through the home run pull box (No. 7 with extension).
7. Terminate Video Cable (RG59 Cable, sheilded), Data Cable (18AWG, Sheilded), and Power Cable (3–12AWG CC) at Video Camera on pole designated by Project Plans or Town Engineer.

The Engineer may change these requirements at any time to fit project requirements.

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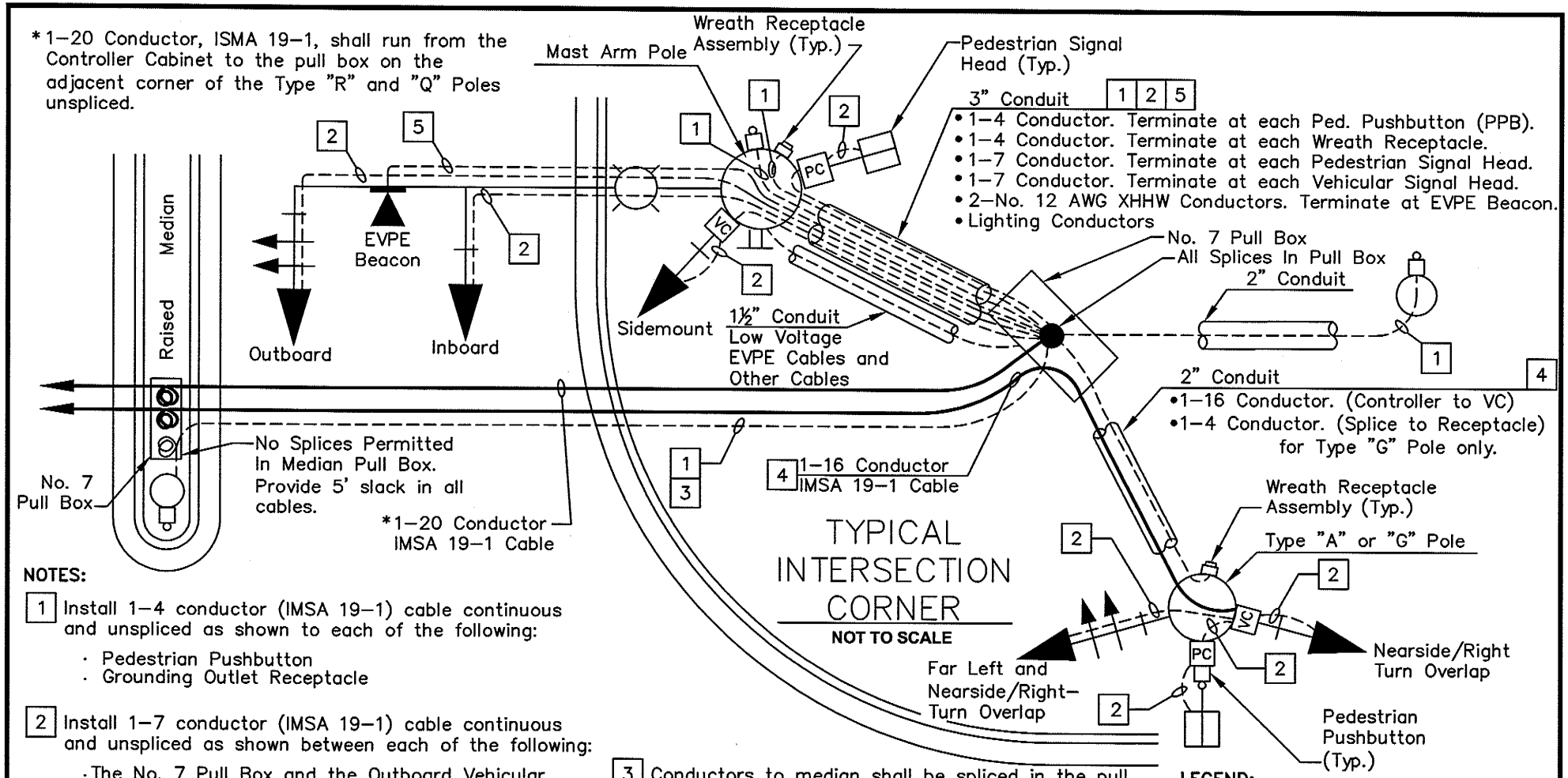
6/20/2006

Keith E. Brann, P.E., Date
Town Engineer

Registered Professional Engineer (Civil) — 38119 — SCOTT A. LESKA — Date Signed 6/20/06 — ARIZONA, U.S.A.

TOWN OF MARANA 1977 ARIZONA

STANDARD DETAIL		DETAIL NO:
TYPICAL TRAFFIC SIGNAL CABLE SCHEMATIC		730–702
DATE: 9/9/05	REVISED: 06/20/06	SHEET 1 OF 1



TYPICAL INTERSECTION CORNER

NOT TO SCALE

NOTES:

1 Install 1–4 conductor (IMSA 19–1) cable continuous and unspliced as shown to each of the following:

- Pedestrian Pushbutton
- Grounding Outlet Receptacle

2 Install 1–7 conductor (IMSA 19–1) cable continuous and unspliced as shown between each of the following:

- The No. 7 Pull Box and the Outboard Vehicular Signal.
- The No. 7 Pull Box and the Inboard Vehicular Signal.
- The No. 7 Pull Box and the Sidemount Vehicular Signal.
- The VC and the Far Left Mounted Vehicular Signal.
- The VC and the Nearside/Right Turn Overlap Vehicular Signal.
- The No. 7 Pull Box and the Pedestrian Signal Head.
- The VC and the Pedestrian Signal Head/PPB.

3 Conductors to median shall be spliced in the pull box on the adjacent corner in the clockwise direction from the median.

4 Install 1–16 conductor (IMSA 19–1) cable continuous and unspliced as shown between VC (at type "A" or "G" pole) direct to controller.

5 2–No.12 AWG XHHW stranded white and blue conductors for EVPE beacon. Route beacon conductors direct to splice at No. 7 pull box.

LEGEND:

VC Vehicular Terminal Compartment

PC Pedestrian Terminal Compartment

● Splice Location in Pull Box

NOTE: Quantity of cables may vary based on actual field conditions or as directed by the Town Engineer.

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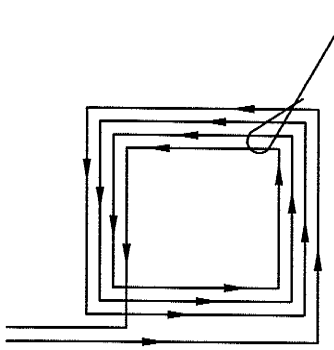
9/9/2005

Keith E. Brann, P.E. Date
Acting Town Engineer

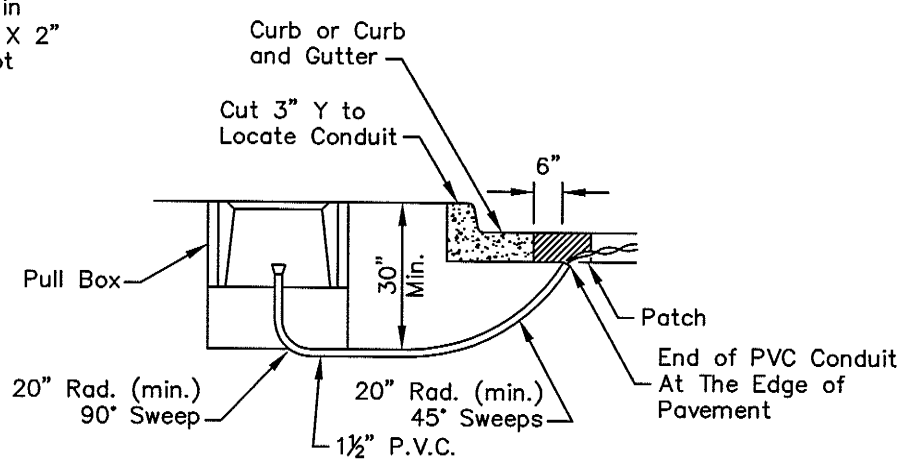
Registered Professional Engineer (Civil) 58319 SCOTT A. LESKA Date Signed 9/9/05 ARIZONA, U.S.A.

TOWN OF MARANA 1977 ARIZONA

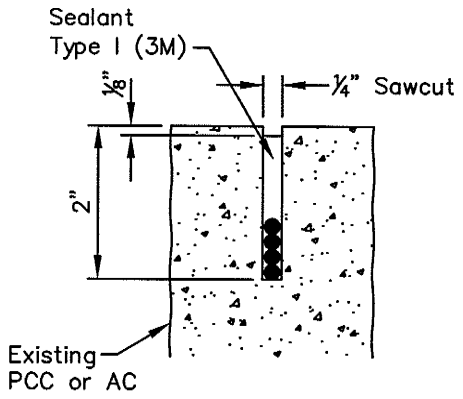
STANDARD DETAIL		DETAIL NO:
TOWN OF MARANA TRAFFIC SIGNAL WIRING SCHEMATIC		730–703
DATE: 9/9/05	REVISED:	SHEET 1 OF 1



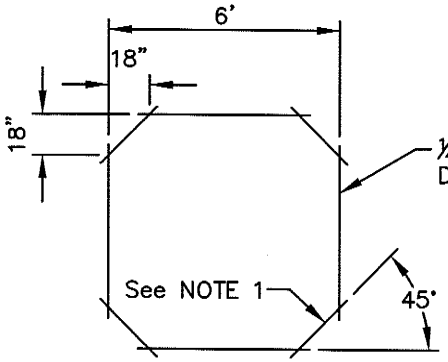
WIRE LAYOUT
Not To Scale



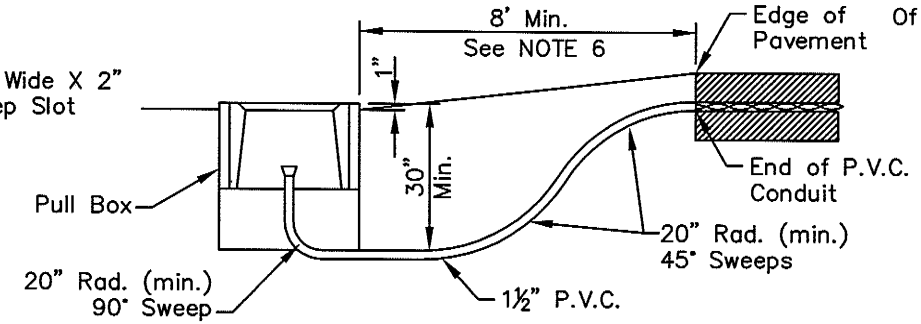
WITH CURB AND GUTTER
Not To Scale



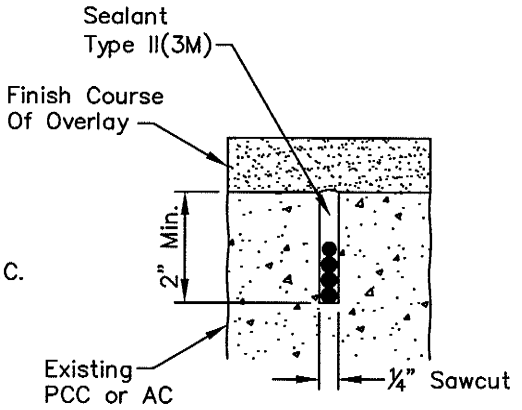
DETAIL 1
Not To Scale



SAWCUT LAYOUT
Not To Scale



WITHOUT CURB AND GUTTER
Not To Scale



DETAIL 2
Not To Scale

NOTES:

1. Sawcut across corners at a 45° angle to minimize sharp angles in loop run.
2. One loop detector shall be installed per lane and it shall be located in the center of the lane.
3. Loops shall be installed in accordance with the requirements of Detail 1 when there is to be no additional surfacing.
4. Loops shall be installed in accordance with the requirements of Detail 2 when an overlay or top course is installed/constructed.
5. No splices permitted in loop wire.
6. Any pull boxes installed along an uncurbed roadway shall be installed adjacent to, but not within, the shoulder.
7. All pull boxes shall be located on the Project Plans with Station and Offset call-outs.

APPROVED FOR DISTRIBUTION:

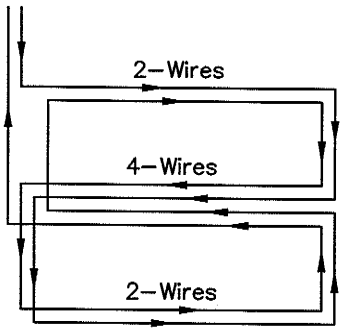
9/9/2005

Keith E. Brann, P.E., Date
Acting Town Engineer

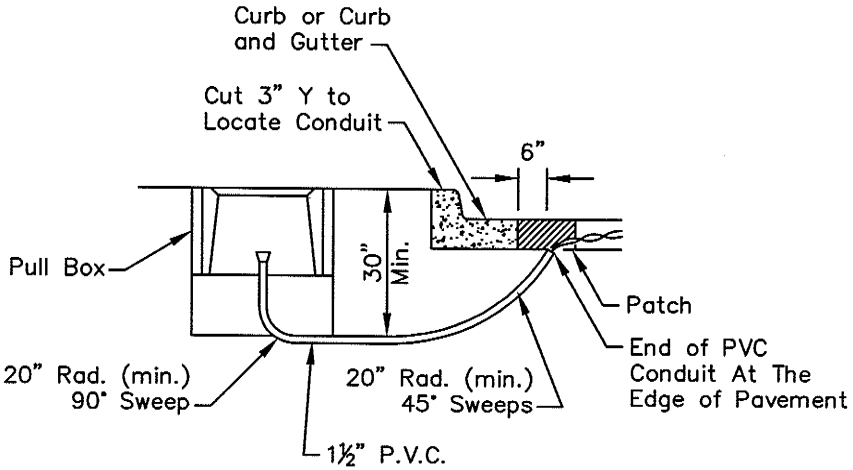
Registered Professional Engineer (Civil) 38119 SCOTT A. LESKA Date Signed 9/9/05 ARIZONA, U.S.A.

TOWN OF MARANA ARIZONA

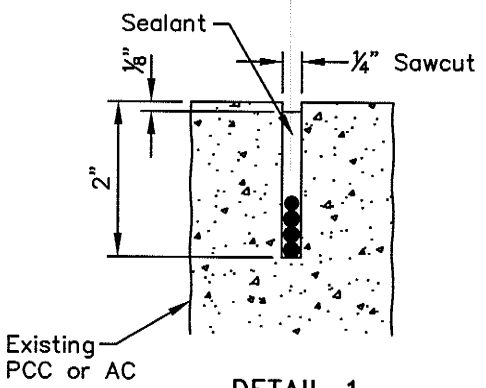
STANDARD DETAIL	DETAIL NO:
6' X 6' LOOP DETECTOR	730-710
DATE: 9/9/05 / REVISED:	SHEET 1 OF 1



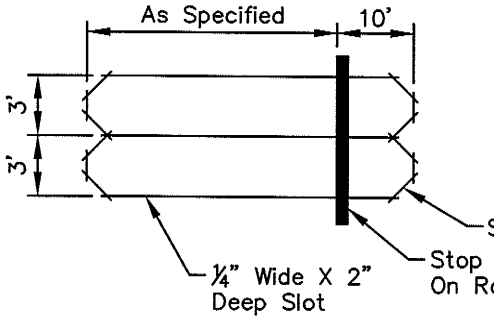
WIRE LAYOUT
Not To Scale



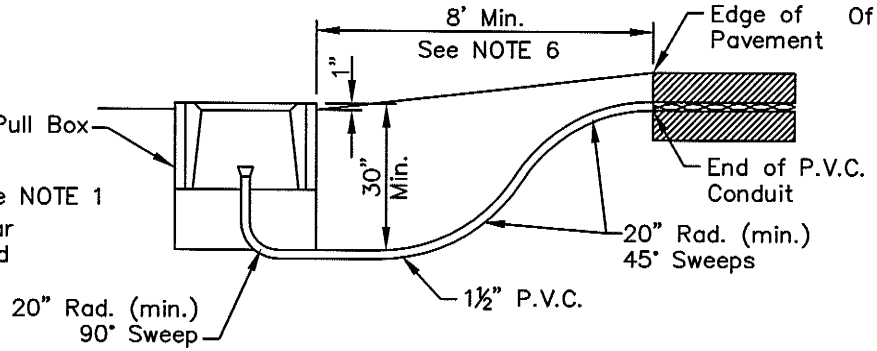
WITH CURB AND GUTTER
Not To Scale



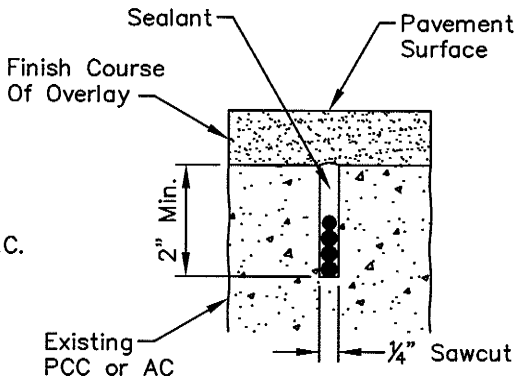
DETAIL 1
Not To Scale



SAWCUT LAYOUT
Not To Scale



WITHOUT CURB AND GUTTER
Not To Scale



DETAIL 2
Not To Scale

NOTES:

1. Sawcut across corners at a 45° angle to minimize sharp angles in loop run.
2. One loop detector shall be installed per lane and it shall be located in the center of the lane.
3. Loops shall be installed in accordance with the requirements of Detail 1 when there is to be no additional surfacing.
4. Loops shall be installed in accordance with the requirements of Detail 2 when an overlay or top course is installed/constructed.
5. No splices permitted in loop wire.
6. Any pull boxes installed along an uncurbed roadway shall be installed adjacent to, but not within, the shoulder.
7. All pull boxes shall be located on the Project Plans with Station and Offset call—outs.

APPROVED FOR DISTRIBUTION:

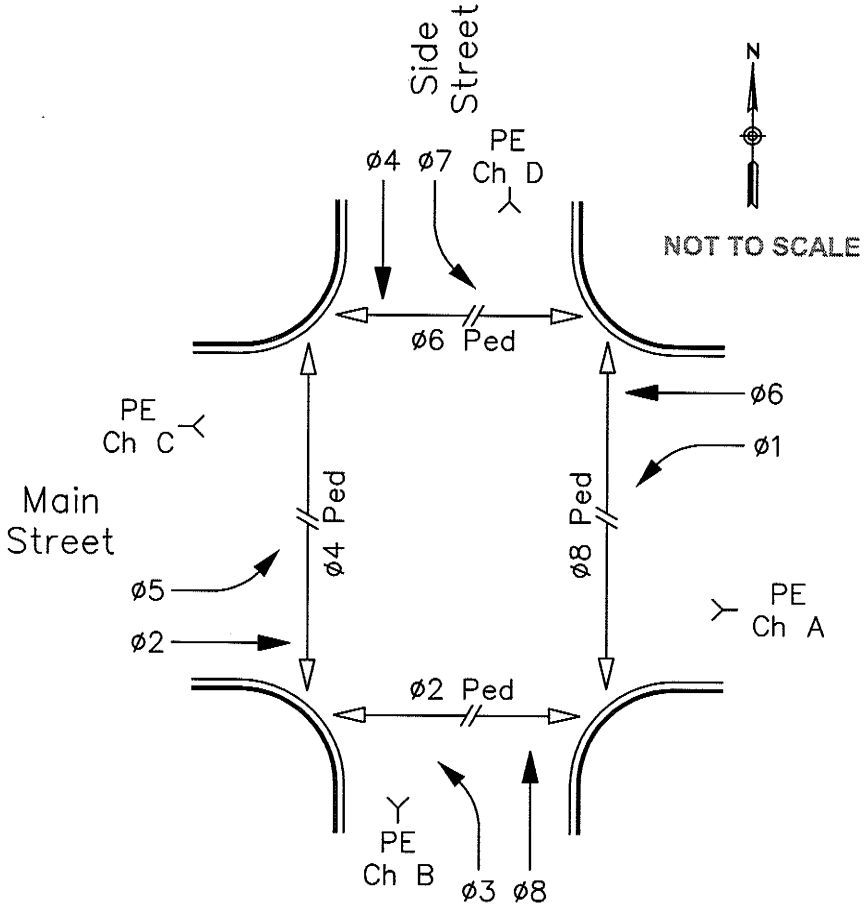
9/9/2005

Keith E. Brann, P.E., Date
Acting Town Engineer

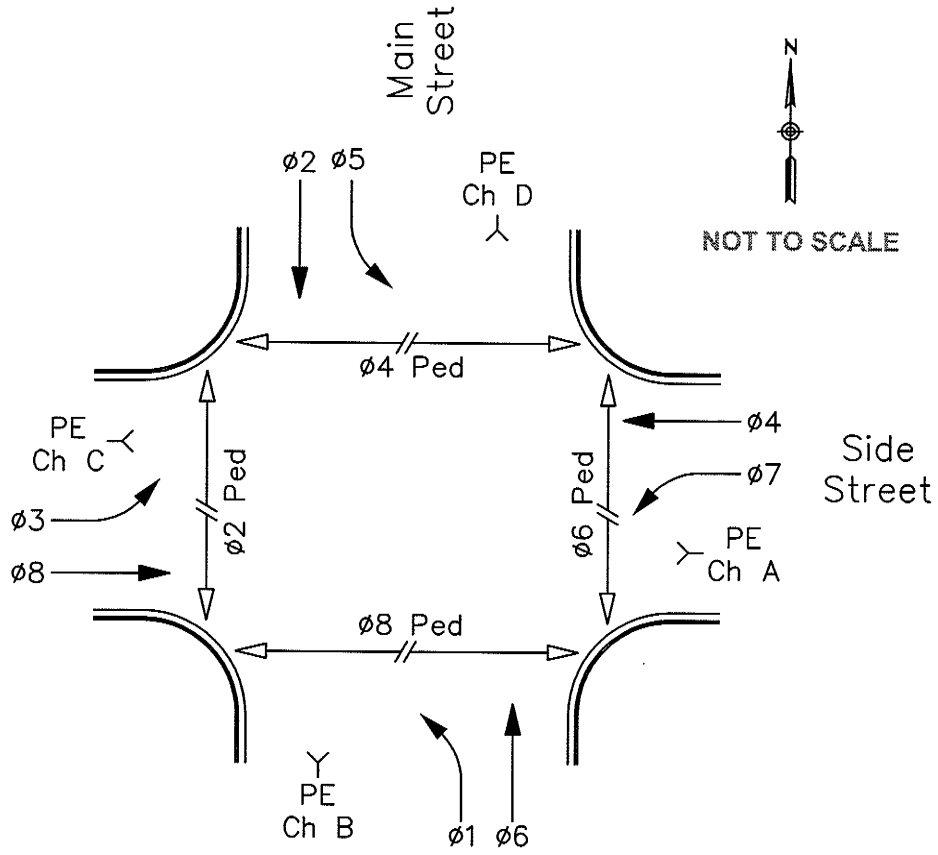
Registered Professional Engineer (Civil) 38119 SCOTT A. LESKA Date Signed 9/9/05 ARIZONA, U.S.A.

TOWN OF MARANA ARIZONA

STANDARD DETAIL	DETAIL NO:
PRESENCE LOOP DETECTOR	730—712
DATE: 9/9/05 REVISED:	SHEET 1 OF 1



EAST / WEST MAIN STREET



NORTH / SOUTH MAIN STREET

PREEMPTION CHANNELS

PE Channel A = EB Preemptor 1
PE Channel B = SB Preemptor 2
PE Channel C = WB Preemptor 3
PE Channel D = NB Preemptor 4

APPROVED FOR DISTRIBUTION:

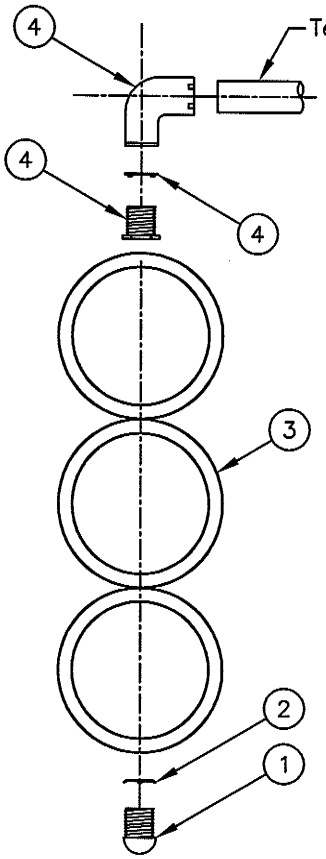
10/14/2005

Keith E. Brann, P.E., Date
Acting Town Engineer

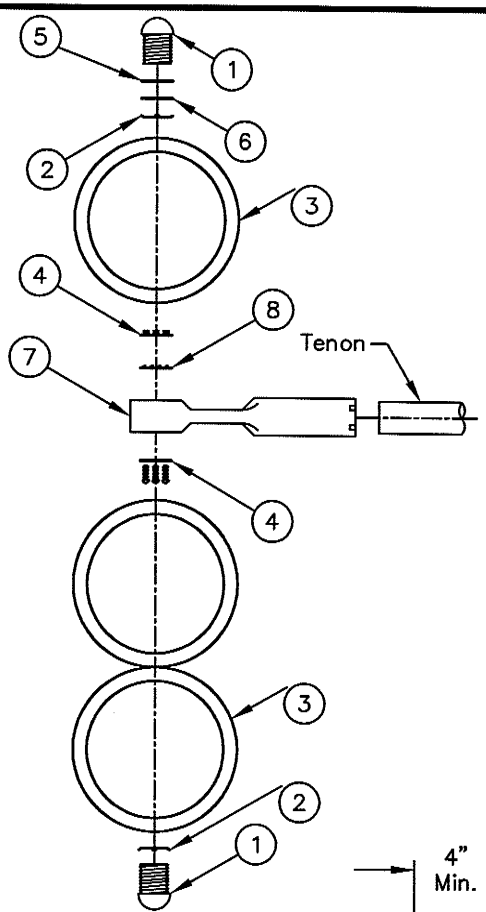
Registered Professional Engineer (Civil) 38119 SCOTT A. LESKA Date signed 10/14/05 ARIZONA, U.S.A.

TOWN OF MARANA 1977 ARIZONA

STANDARD DETAIL	DETAIL NO:
STANDARD TRAFFIC SIGNAL PHASING	730-800
DATE: 9/9/05 REVISED: 10/14/2005	SHEET 1 OF 1



TYPE I MOUNT
Not To Scale



TYPE II MOUNT
Not To Scale

TYPE I MOUNT

LIST OF MATERIALS

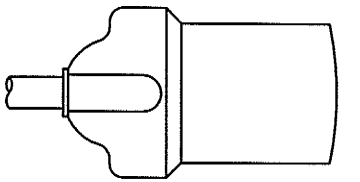
Itm.	Qty.	Description
1	1	Mast Arm Plumbizer With Locking Device. (See T.S. 10–2)*
2	1	12" Signal Head. See Plans.
3	1	Conduit Lockout.
4	1	1 ½" x 1 ¾" Lock Nipple.
5	1	Lock Ring. (See T.S. 10–1–4)*
6	1	Ornamental Cap. (See T.S. 10–1–6)*

TYPE II MOUNT

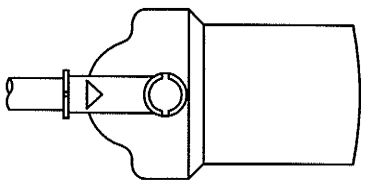
LIST OF MATERIALS

Itm.	Qty.	Description
1	2	Ornamental Cap. (See T.S. 10–1–6)*
2	2	Conduit Locknut.
3	1	12" Signal Head. See Plans.
4	2	Attaching Washers W/3–1/4–20 UNC x 3 ½ Carriage
		Bolts and Nuts.
5	1	Flat Washer.
6	1	Neoprene Washer.
7	1	Elevator Plumbizer. (See T.S. 10–2)*
8	1	Lock Washer.

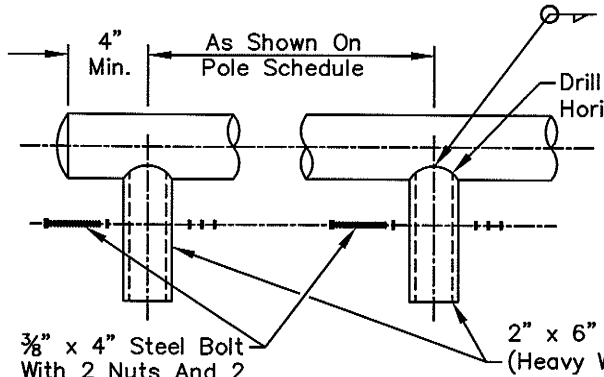
* Standard Details for Public Improvements COT/PC 1994 edition



MOUNTING ORIENTATION PLAN
Not To Scale



MOUNTING ORIENTATION PLAN
Not To Scale



TENON DETAIL
Not To Scale

NOTES:

1. All mounts shall be used with polycarbonate vehicular traffic signal heads only.
2. All materials shall be black.

APPROVED FOR DISTRIBUTION:

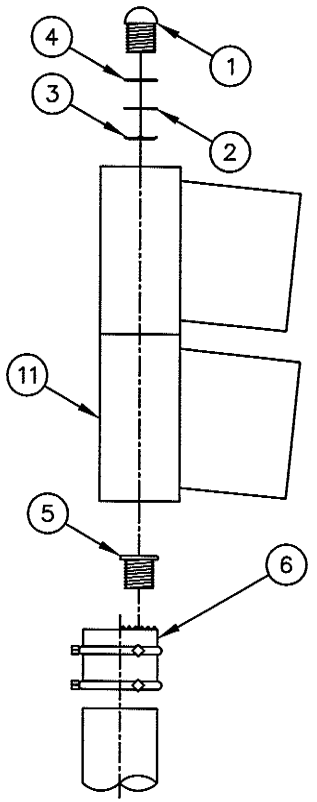
9/9/2005

Keith E. Brann, P.E., Acting Town Engineer — Date

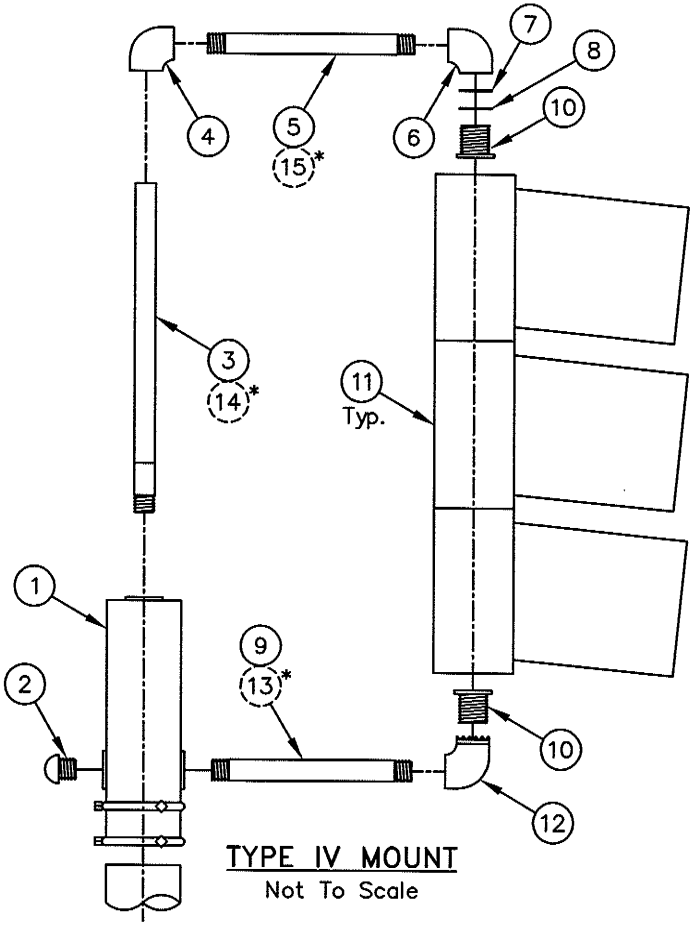
Registered Professional Engineer (Civil) 38119 SCOTT A. LESKA Date Signed 9/9/05 ARIZONA, U.S.A.

TOWN OF MARANA ARIZONA 1977

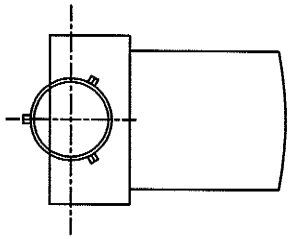
STANDARD DETAIL	DETAIL NO:
TYPE I AND II MOUNTING ASSEMBLIES	730–901
DATE: 9/9/05 — REVISED:	SHEET 1 OF 1



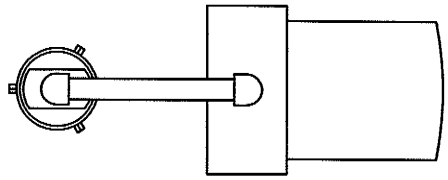
TYPE III MOUNT
Not To Scale



TYPE IV MOUNT
Not To Scale



MOUNTING ORIENTATION PLAN
Not To Scale



MOUNTING ORIENTATION PLAN
Not To Scale

TYPE III MOUNT

LIST OF MATERIALS		
Itm.	Qty.	Description
1	1	Ornamental Cap. (T.S. 10–1–6)**
2	1	Neoprene Washer.
3	1	Conduit Locknut.
4	1	Flat Washer.
5	1	1½" Lock Nipple 1⅛" Long.
6	1	Pole Top Offset Mount. (T.S. 10–1–3)**
7	1	Signal Head, See Plans.

TYPE IV MOUNT

LIST OF MATERIALS		
Itm.	Qty.	Description
1	1	Pole Top Mounted Terminal Compartment. (T.S. 10–4–2)**
2	1	Ornamental Cap. (T.S. 10–1–6)**
3	1	1½" Center Pipe ***
4	1	90° Elbow, Drill & Tap for Setscrew.
5	1	1½" Pipe Nipple, 12½" Long For Pedestrian & Signal Heads.
6	1	90° Elbow.
7	1	Flat Washer.
8	1	Neoprene Washer.
9	1	1½" Pipe Nipple, 12" Long.
10	2	1½" Lock Nipple See Note 1.
11	1	12" Signal Head. See Plans.
12	1	90° Elbow With Locking Device. (TS 10–1–2)**
13*	1	1½" Pipe Nipple, 12" Long.
14*	1	1½" Pipe Nipple, 9 1/2" Long for Ped. Signal, For Illuminated Message Units Use 23⅝" x 1½" Pipe.
15*	1	1½" Pipe Nipple, 12 1/2" Long.

** Standard Details for Public Improvements COT/PC 1994 edition.

*** Nipple length shall be determined by Contractor to ensure a correct fit for the type of vehicular traffic signal head being installed.

NOTES:

1. Lock nipple length shall be 1¾" for 12" heads.
2. All materials shall be black.

APPROVED FOR DISTRICTION:

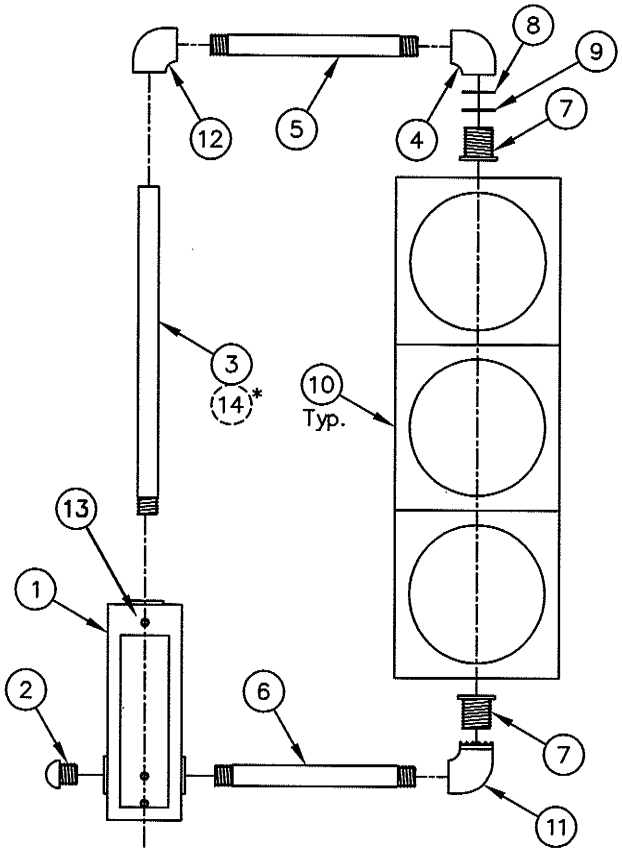
9/9/2005

Keith E. Brann, P.E., Date
Acting Town Engineer

Registered Professional Engineer (Civil) 38119 SCOTT A. LESKA Date Signed 9/9/05 ARIZONA, U.S.A.

TOWN OF MARANA ARIZONA

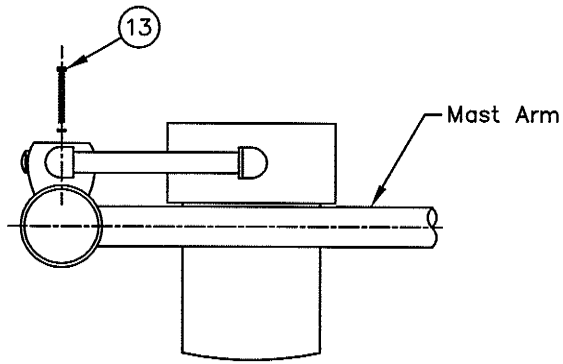
STANDARD DETAIL	DETAIL NO:
TYPE III AND IV MOUNTING ASSEMBLIES	730–902
DATE: 9/9/05 / REVISED:	SHEET 1 OF 1



TYPE V MOUNT
Not To Scale

LIST OF MATERIALS		
Itm.	Qty.	Description
1	1	Terminal Compartment For Side Mtg. (See T.S. 10–4–1)**
2	1	Ornamental Cap. (See T.S. 10–1–6)**
3	1	1½" I.D. Pipe ***
4	1	1½" I.D. Pipe, 90° Elbow.
5	1	1½" I.D. Pipe Nipple, 24½" Long.
6	1	1½" I.D. Pipe Nipple, 24" Long
7	1	1½" Lock Nipple, See Note No. 1.
8	1	Flat Washer.
9	1	Neoprene Washer.
10	1	12" Signal Head. See Plans.
11	1	90° Ell With Locking Device. (T.S. 10–1–2)**
12	1	1½" I.D. Pipe 90° Elbow, Drill & Tap For Setscrew.
13	2	½" x 2" Galvanized Steel Bolt 13–UNC With Flat Washer and Lock Washer.
14*	1	1½" Pipe Nipple 9½"–For Pedestrian Signal Units Only. (For Illuminated Message, Use 25⅜" Pipe)

** Standard Details for Public Improvements COT/PC 1994 edition.
*** Nipple length shall be determined by Contractor to ensure a correct fit for the type of vehicular traffic signal head being installed.



MOUNTING
ORIENTATION PLAN
Not To Scale

NOTES:
1. Lock nipple length shall be 1¾" for 12" heads.
2. All materials shall be black.

APPROVED FOR DISTRIBUTION:

9/9/2005

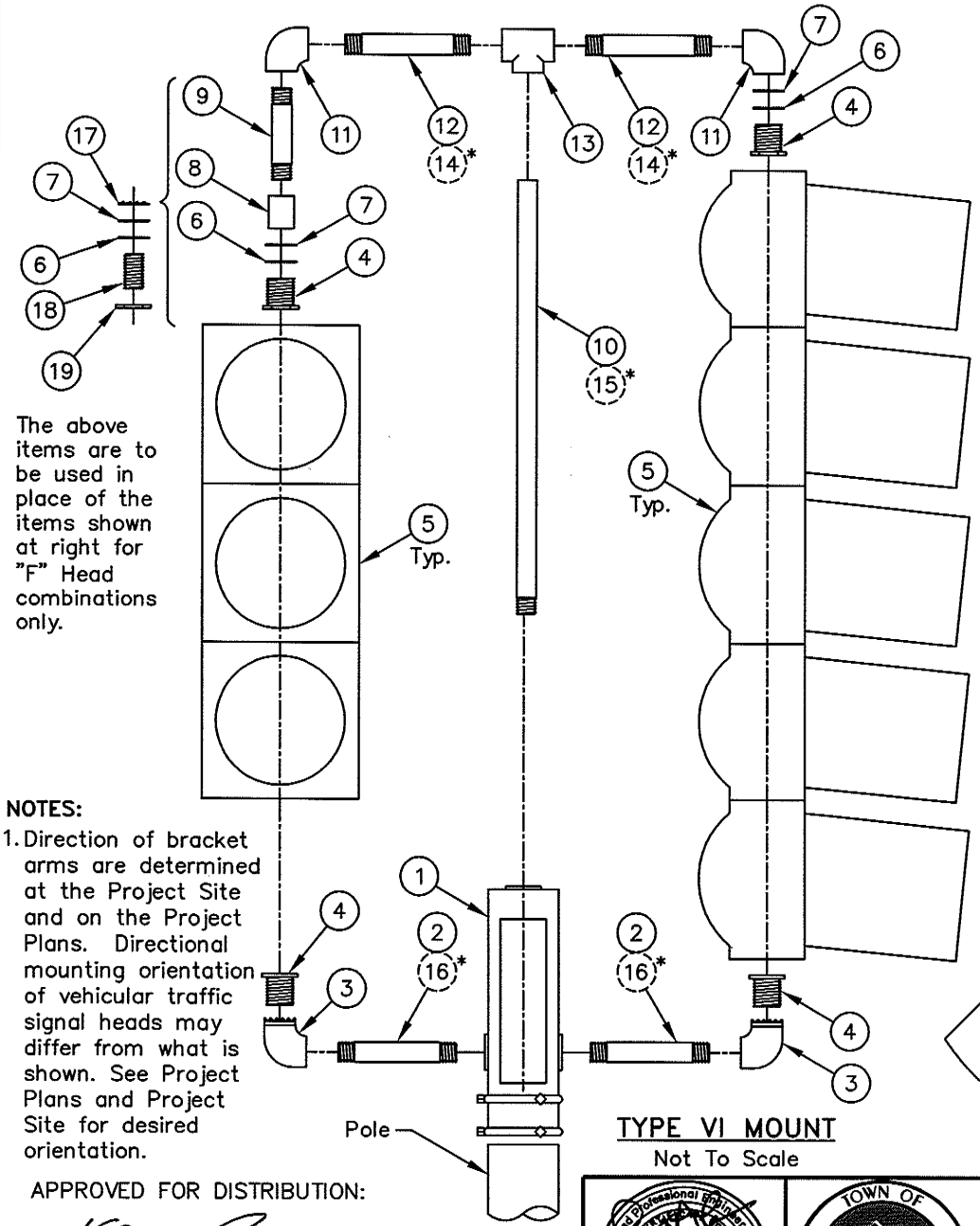
Keith E. Brann, P.E., Date
Acting Town Engineer

Marana Regular Council Meeting 06/21/2016

Registered Professional Engineer (Civil)
38119
SCOTT A. LESKA
Date Signed 9-9-05
ARIZONA, U.S.A.

TOWN OF MARANA ARIZONA 1777

STANDARD DETAIL		DETAIL NO:
TYPE V MOUNTING ASSEMBLY		730–903
DATE: 9/9/05	REVISED:	SHEET 1 OF 1



TYPE VI MOUNT
Not To Scale

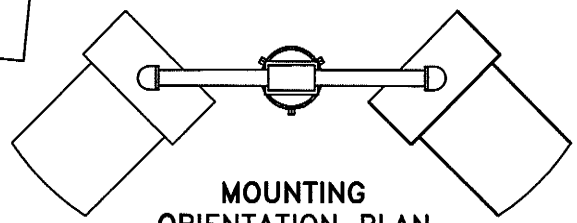
The above items are to be used in place of the items shown at right for "F" Head combinations only.

LIST OF MATERIALS		
Itm.	Qty.	Description
1	1	Terminal Compartment Pole Top Mtg. (See T.S. 10–4–1)**
2	2	1½" I.D. Pipe Nipple, 12" Long.
3	2	90° Ell With Locking Device. (See T.S. 10–1–2)**
4	4	1½" Lock Nipple, See NOTE No. 1.
5	2	12" Signal Head. See Plans.
6	2	Neoprene Washer.
7	2	Flat Washer.
8	1	1½" Pipe Coupling, As Required.
9	1	1½" Pipe Nipple ***
10	1	1½" Center Pipe ***
11	2	90° Elbow, 1½".
12	2	1½" Pipe Nipple, 12½" Long.
13	1	Pipe Tee, Drill & Tap for Setscrew.
14*	2	1½" Pipe Nipple, 12½" Long For Ped. Signal Heads.
15*	1	1½" Pipe Nipple, 9½" Long For Ped. Signal Heads.
16*	2	1½" Pipe Nipple, 12" Long For Ped. Signal Heads.
17	1	Conduit Lock Nut. (For 'F' & 'R' Combination Only)
18	1	1½" Pipe Nipple, 3" Long. (For 'F' & 'R' Combination Only)
19	1	Malleable Hex Nut. (For 'F' & 'R' Combination Only)

** Standard Details for Public Improvements COT/PC 1994 edition.
*** Nipple length shall be determined by Contractor to ensure a correct fit for the type of vehicular traffic signal head being installed.

NOTES:

1. Direction of bracket arms are determined at the Project Site and on the Project Plans. Directional mounting orientation of vehicular traffic signal heads may differ from what is shown. See Project Plans and Project Site for desired orientation.



MOUNTING ORIENTATION PLAN
Not To Scale

NOTES (Cont.):

2. Lock nipple length shall be 1¾" for 12" heads.
3. All materials shall be black.
4. Mounting orientation may differ from what is shown. See Project Plans and Project Site for desired orientation.

APPROVED FOR DISTRIBUTION:

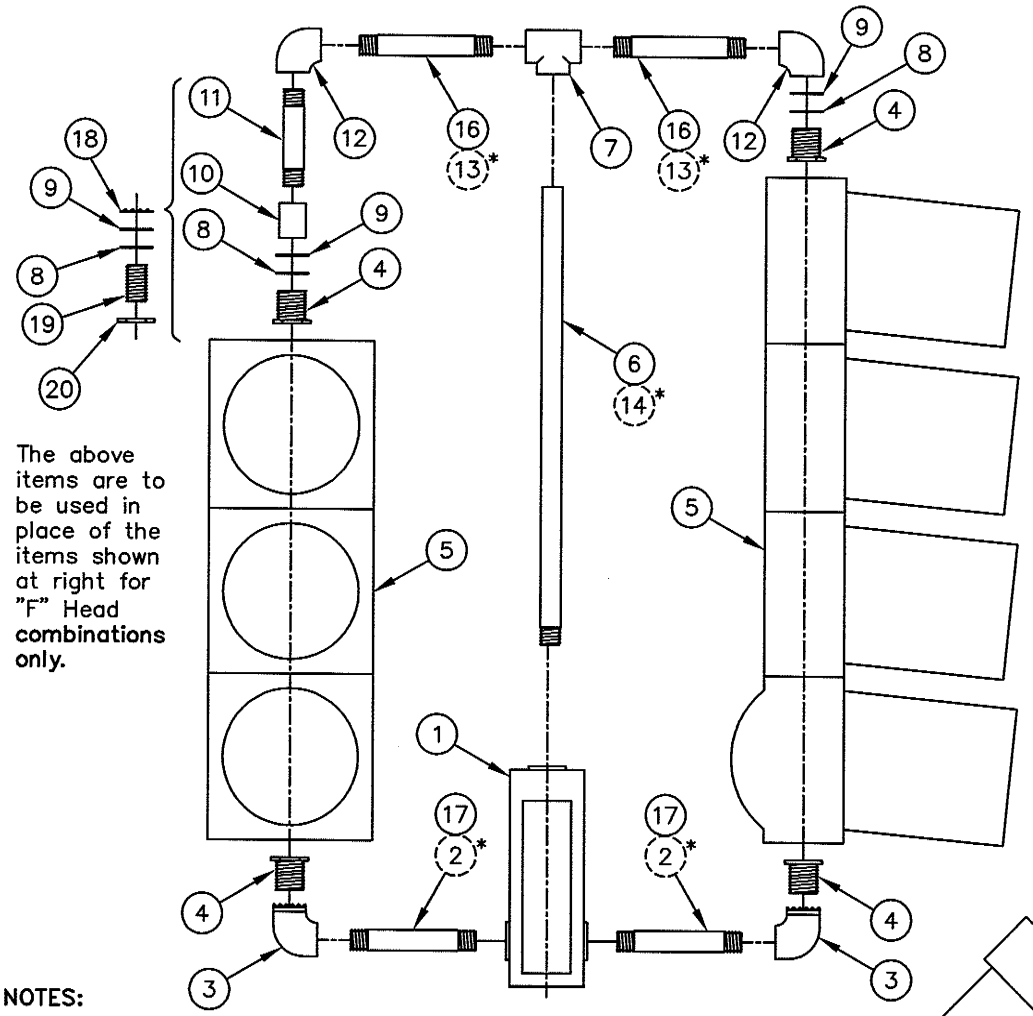
9/9/2005

Keith E. Brann, P.E., Date
Acting Town Engineer

Registered Professional Engineer (Civil) 38119 SCOTT A. LESKA Date Signed 9/9/05 ARIZONA, U.S.A.

TOWN OF MARANA ARIZONA

STANDARD DETAIL		DETAIL NO:
TYPE VI MOUNTING ASSEMBLY		730–904
DATE: 9/9/05	REVISED:	SHEET 1 OF 1



The above items are to be used in place of the items shown at right for "F" Head **combinations only.**

NOTES:

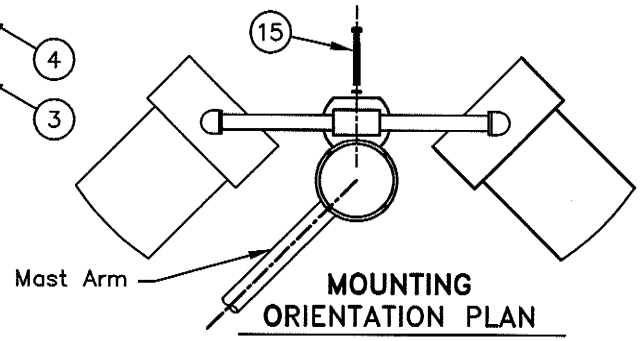
1. Direction of bracket arms are determined at the Project Site and on the Project Plans. Directional mounting orientation of vehicular traffic signal heads may differ from what is shown. See Project Plans and Project Site for desired orientation.

TYPE VII MOUNT
Not To Scale

LIST OF MATERIALS		
Itm.	Qty.	Description
1	1	Terminal Compartment Pole Top Mtg. (See T.S. 10–4–1)**
2*	2	1½" Pipe Nipple, 11½" Long. (For Ped. Signal Heads)
3	2	90° Elbow With Locking Device. (See T.S. 10–1–2)**
4	4	1½" Lock Nipple, See NOTE 1.
5	2	12" Signal Head. See Plans.
6	1	Center Pipe ***
7	1	Tee, Drill & Tap For Setscrew.
8	2	Neoprene Washer.
9	2	Flat Washer.
10	1	1½" Pipe Coupling, As Required.
11	1	1½" Pipe Nipple ***
12	2	90° Elbow.
13*	2	1½" Pipe Nipple, 12" Long. (For Ped. Signal Heads)
14*	1	1½" Pipe Nipple, 9½" Long. (For Ped. Signal Heads)
15	2	½"x2" Galvanized Steel Bolt 13 UNC With Flat Washer And Lock Washer.
16	2	1½" Pipe Nipple, 24½" Long.
17	2	1½" Pipe Nipple, 24" Long.
18	1	Conduit Lock Nut. (For 'F' & 'R' Combination Only)
19	1	1½" Pipe Nipple, 3" Long. (For 'F' & 'R' Combination Only)
20	1	Malleable Hex Nut. (For 'F' & 'R' Combination Only)

** Standard Details for Public Improvements COT/PC 1994 edition.

*** Nipple length shall be determined by Contractor to ensure a correct fit for the type of vehicular traffic signal head being installed.



MOUNTING ORIENTATION PLAN
Not To Scale

NOTES (Cont.):

2. Lock nipple length shall be and 1¾" for 12" heads.
3. All materials shall be black.
4. Mounting orientation may differ from what is shown. See Project Plans and Project Site for desired orientation.

APPROVED FOR DISTRIBUTION:

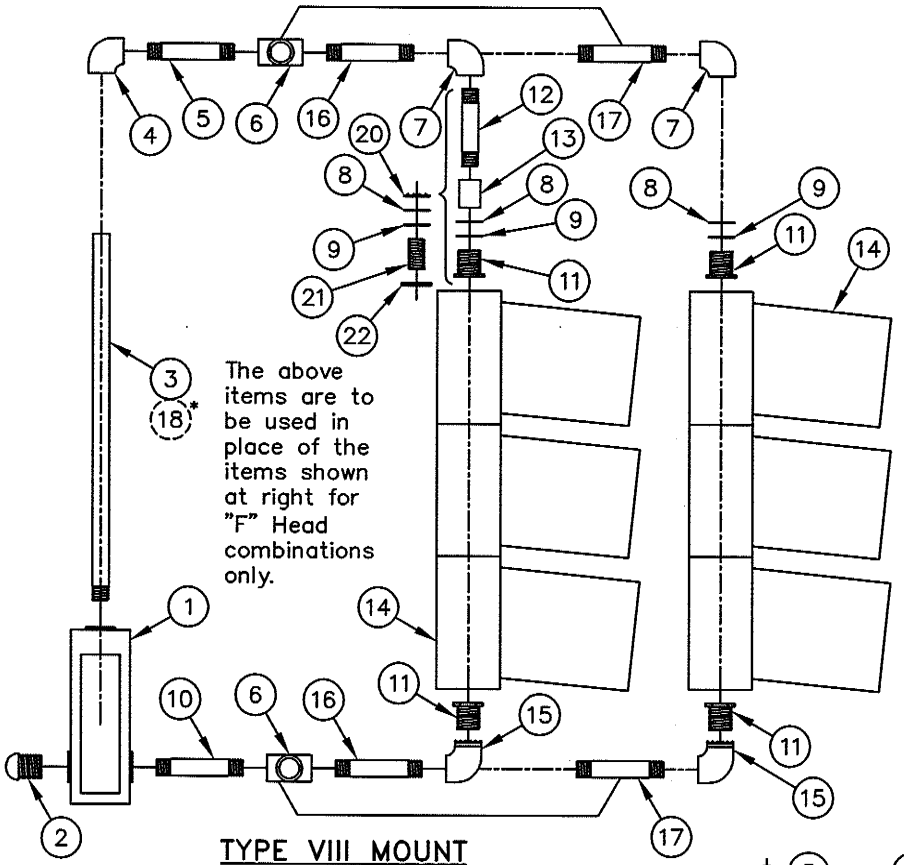
9/9/2005

Keith E. Brann, P.E., Date
Acting Town Engineer

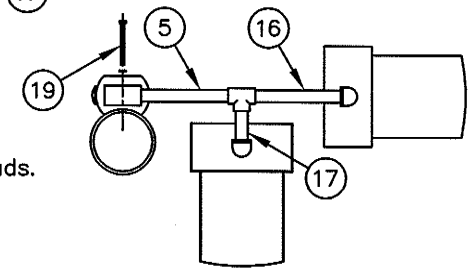
Registered Professional Engineer (Civil) 38119 SCOTT A. LESKA Date Signed 9/9/05 ARIZONA, U.S.A.

TOWN OF MARANA ARIZONA 1977

STANDARD DETAIL		DETAIL NO:
TYPE VII MOUNTING ASSEMBLY		730–905
DATE: 9/9/05	REVISED:	SHEET 1 OF 1



TYPE VIII MOUNT
Not To Scale



MOUNTING ORIENTATION PLAN
Not To Scale

LIST OF MATERIALS		
Itm.	Qty.	Description
1	1	Terminal Compartment Pole Top Mtg. (See T.S. 10–4–1)**
2	1	Ornamental Cap. (See T.S. 10–1–6)**
3	1	1½" Pipe ***
4	1	1½" 90° Elbow, Drill & Tap For Setscrew.
5	11	1½" I.D. Pipe Nipple, 12½" Long.
6	2	1½" Pipe Tee.
7	2	90° Elbow.
8	2	Flat Washer.
9	1	Neoprene Washer.
10	4	1½" I.D. Pipe Nipple, 12" Long.
11	1	1½" Lock Nipple, See NOTE 1.
12	1	1½" I.D. Pipe Nipple ***
13	2	1½" Coupling, As Required.
14	2	12" Signal Head. See Plans.
15	2	90° Elbow With Locking Device. (See T.S. 10–1–2)**
16	2	1½" I.D. Pipe Nipple, 12" Long.
17	1	1½" I.D. Pipe Nipple, 12" Long.
18*	2	1½" I.D. Pipe Nipple, 9½" Long. For Ped Signal Only.
19	1	½" x 2" Galvanized Steel Bolt 13–UNC With Flat Washer And Lock Washer.
20	1	Conduit Lock Nut. (For 'F' & 'R' Combination Only)
21	1	1½" I.D. Pipe Nipple, 3" Long. (For 'F' And 'R' Combination Only)
22	1	Malleable Hex Nut. (For 'F' & 'R' Combination Only)

** Standard Details for Public Improvements COT/PC 1994 edition.

*** Nipple length shall be determined by Contractor to ensure a correct fit for the type of vehicular traffic signal head being installed.

NOTES:

1. Lock nipple length shall be and 1 ¾" for 12" heads.
2. All materials shall be black.
3. Direction of bracket arms are determined at the Project Site and on the Project Plans. Directional mounting orientation of vehicular traffic signal heads may differ from what is shown. See Project Plans and Project Site for desired orientation.

APPROVED FOR DISTRIBUTION:

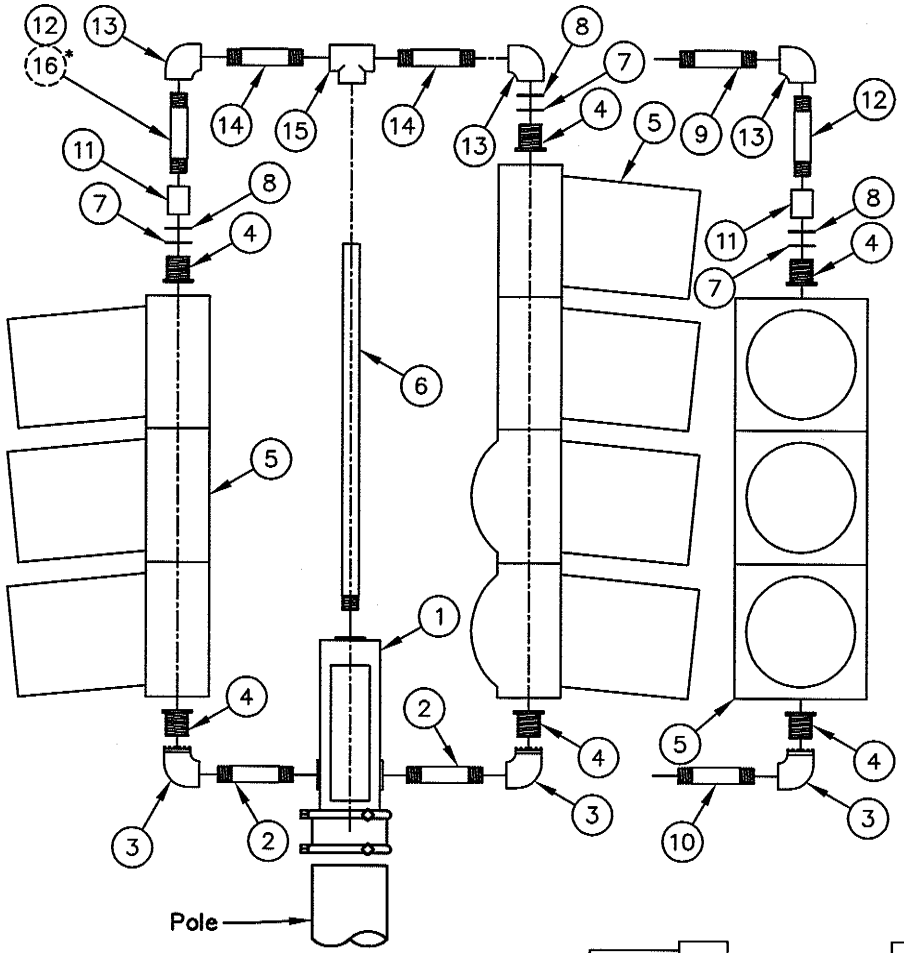
9/9/2005

Keith E. Brann, P.E., Date
Acting Town Engineer

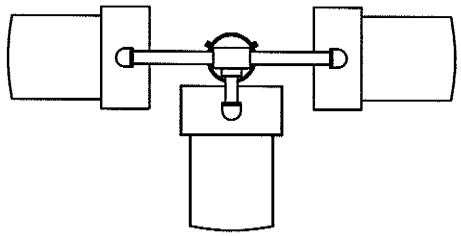
Registered Professional Engineer (Civil) 38119 SCOTT A. LESKA Date Signed 9/9/05 ARIZONA, U.S.A.

TOWN OF MARANA 1977 ARIZONA

STANDARD DETAIL		DETAIL NO:
TYPE VIII MOUNTING ASSEMBLY		730–906
DATE: 9/9/05	REVISED:	SHEET 1 OF 1



TYPE IX MOUNT
Not To Scale



MOUNTING ORIENTATION PLAN
Not To Scale

LIST OF MATERIALS		
Itm.	Qty.	Description
1	1	Pole Top Mtd. Terminal Compartment. (T.S. 10–4–2)**
2	2	1½" Pipe Nipple, 6" Long.
3	3	90° Elbow With Locking Device. (See T.S. 10–1–2)**
4	6	1½" Lock Nipple, See NOTES 1 & 3.
5	3	12" Signal Head. See Plans.
6	1	1½" Pipe ***
7	3	Neoprene Washer.
8	3	Flat Washer.
9	1	1½" Pipe Nipple, 12½" Long.
10	1	1½" Pipe Nipple, 12" Long.
11	2	1½" Coupling, As Required.
12	2	1½" Pipe Nipple ***
13	3	90° Elbow.
14	2	1½" Pipe Nipple, 6½" Long.
15	1	Tee With Side Outlet, Drill & Tap For Setscrew.
16	1	1½" I.D. Pipe Nipple, 49" Long For Pedestrian Signal.

** Standard Details for Public Improvements COT/PC 1994 edition.

*** Nipple length shall be determined by Contractor to ensure a correct fit for the type of vehicular traffic signal head being installed.

NOTES:

1. Lock nipple length shall be and 1¾" for 12" heads.
2. All materials shall be black.
3. Lock Nut is required in place of Lock Nipple when "F" face face or "R" face are hung on same frame.
4. Direction of bracket arms are determined at the Project Site and on the Project Plans. Directional mounting orientation of vehicular traffic signal heads may differ from what is shown. See Project Plans and Project Site for desired orientation.

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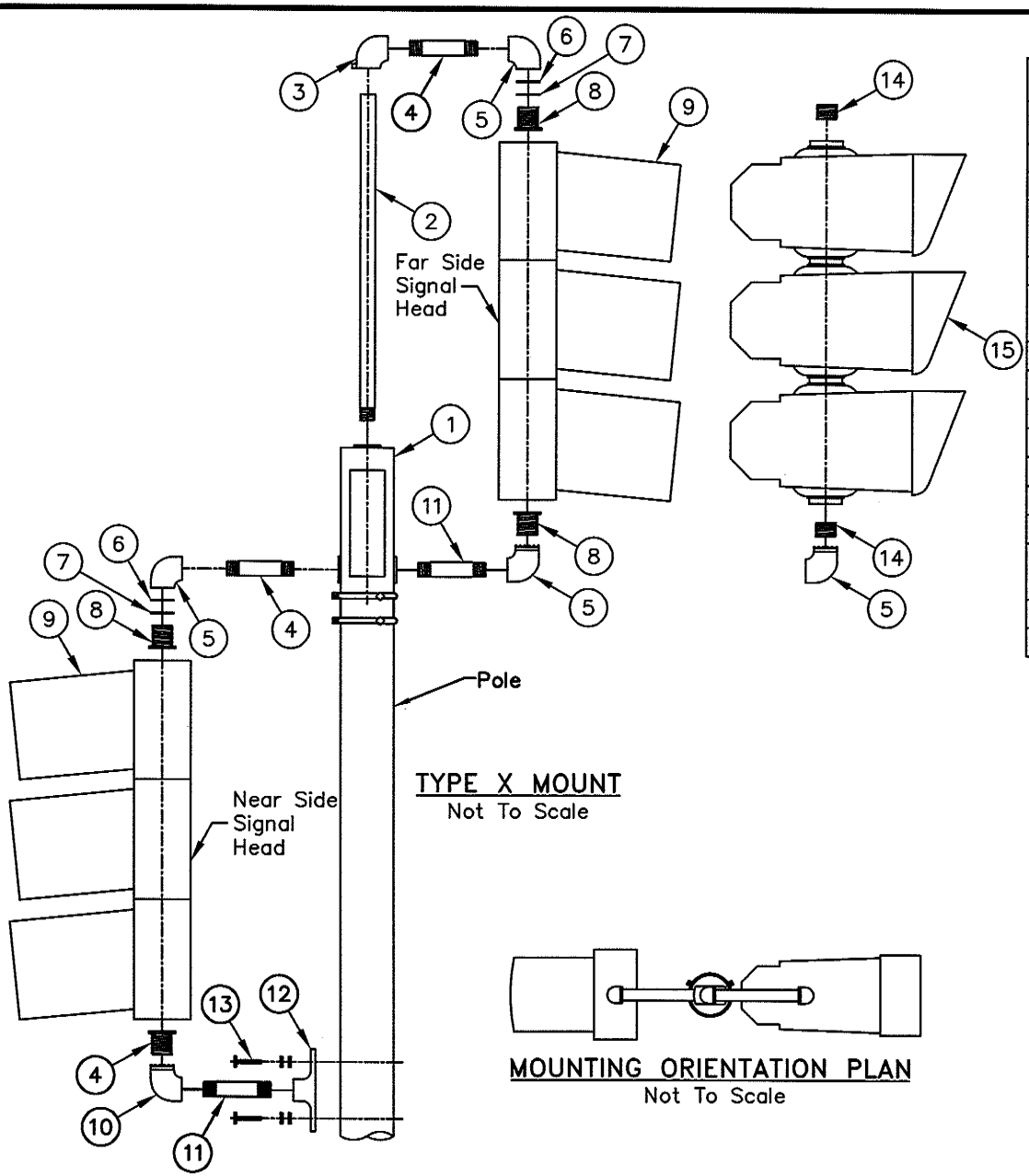
9/9/2005

Keith E. Brann, P.E., Date
Acting Town Engineer

Professional Engineer (Civil) 38119 SCOTT A. LESKA Date Signed 9/9/05 ARIZONA, U.S.A.

TOWN OF MARANA ARIZONA 1977

STANDARD DETAIL		DETAIL NO:
TYPE IX MOUNTING ASSEMBLY		730–907
DATE: 9/9/05	REVISED:	SHEET 1 OF 1



TYPE X MOUNT
Not To Scale

MOUNTING ORIENTATION PLAN
Not To Scale

LIST OF MATERIALS		
Itm.	Qty.	Description
1	1	Pole Top Mtd. Terminal Compartment. (T.S. 10–4–2)*
2	1	½" Pipe ***
3	1	Elbow, 1½", 90°, Reamed, Drilled, and Tapped For Screw.
4	2	Nipple, 1½" x 14½".
5	2	Elbow, 1½", 90° (3 Required When Optical Signal is Used.)
6	2	Flat Washer.
7	2	Neoprene Washer.
8	4	1½" Lock Nipple, See NOTE 1.
9	2	12" Signal Head. See Plans.
10	2	Elbow, 1½", 90°, With Locking Device.
11	2	Nipple, 1½" x 14"
12	1	Pole Plate. (T.S. 10–3–2)*
13	2	½" x 2" Galvanized Steel Bolt 13–UNC With Flat Washer and Lock Washer.
14	2	Close Nipple, 1½" x 1¾".
15	1	Programmed Visibility Signal Assembly.

** Standard Details for Public Improvements COT/PC 1994 edition.

*** Pipe nipple length shall be determined by Contractor to ensure a correct fit for the type of vehicular traffic signal head being installed.

NOTES:

1. Lock nipple length shall be and 1¾" for 12" heads.
2. All materials shall be black.
3. Direction of Bracket arms are determined at the Project Site and on the Project Plans. Directional mounting orientation of vehicular traffic signal heads may differ from what is shown. See Project Plans and Project Site for desired orientation.

APPROVED FOR DISTRIBUTION:

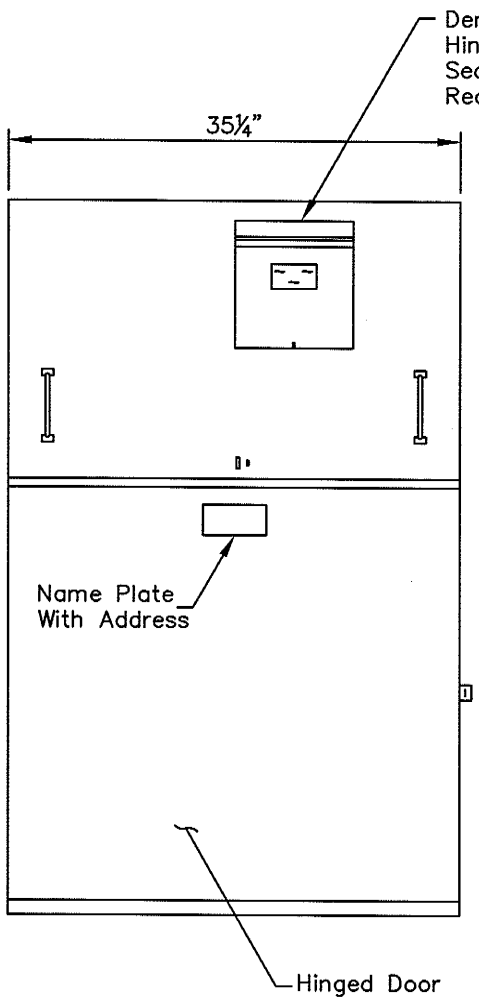
9/9/2005

Keith E. Brann, P.E., Date
Acting Town Engineer

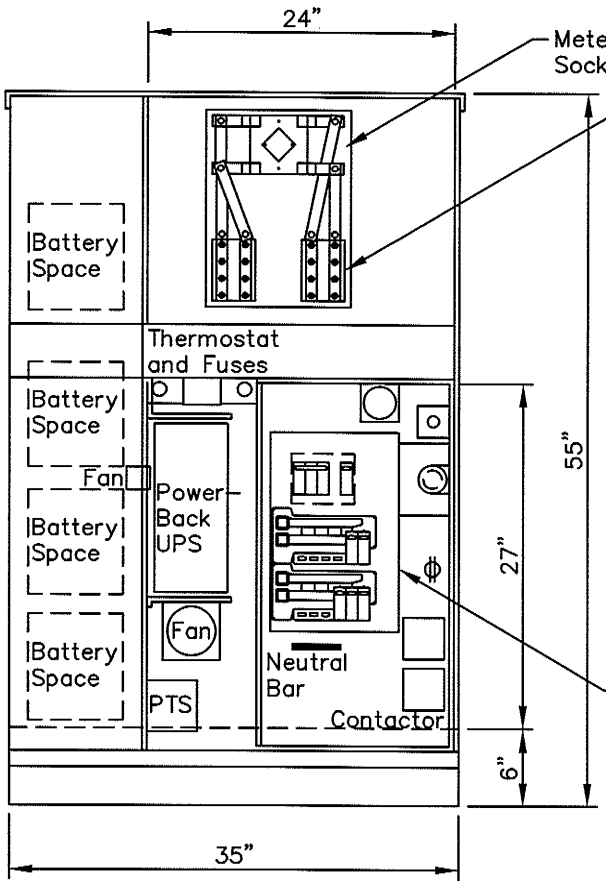
Registered Professional Engineer (Civil) 38119 SCOTT A. LESKA Date Signed 9/9/05 ARIZONA, U.S.A.

TOWN OF MARANA ARIZONA

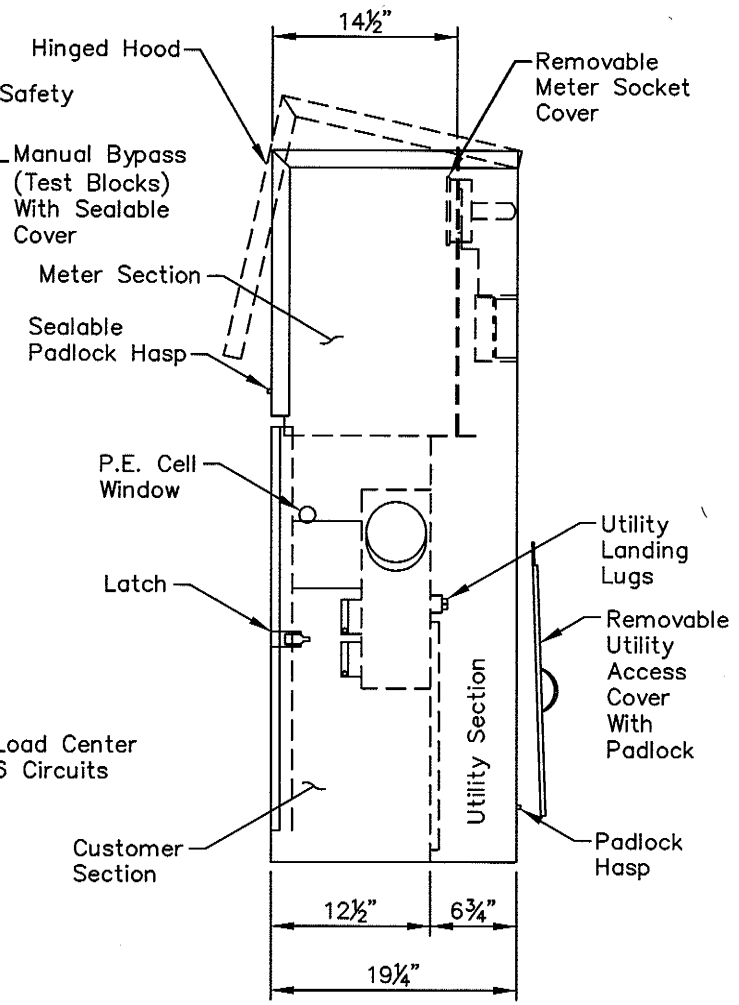
STANDARD DETAIL		DETAIL NO:
TYPE X MOUNTING ASSEMBLY		730–908
DATE: 9/9/05	REVISED:	SHEET 1 OF 1



FRONT VIEW
Not To Scale



FRONT VIEW
LESS DOOR, DEADFRONT, AND COVER
Not To Scale



SIDE VIEW
Not To Scale

Note:

1. Load service calculations shall be provided and shown on the plans.
2. Single line electrical service diagrams to shall be shown on plans.

APPROVED FOR DISTRIBUTION:

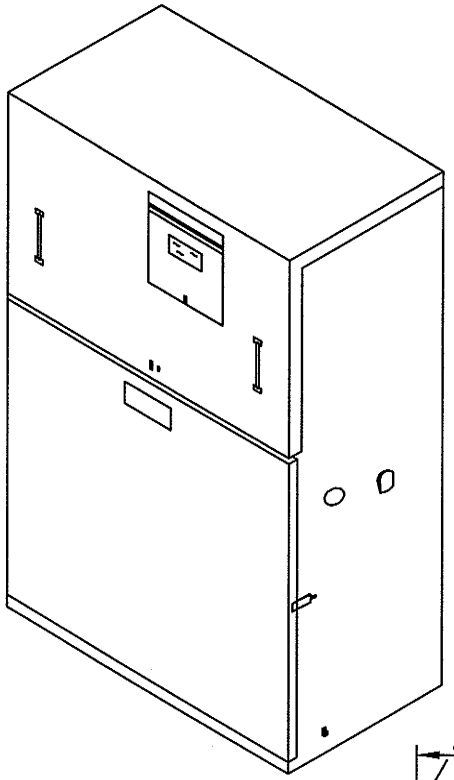
9/9/2005

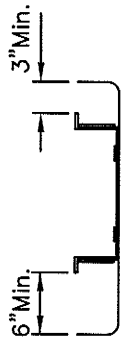
Keith E. Brann, P.E., Date
Acting Town Engineer

Registered Professional Engineer (Civil) 38119 SCOTT A. LESKA Date Signed 9/9/05 ARIZONA, U.S.A.

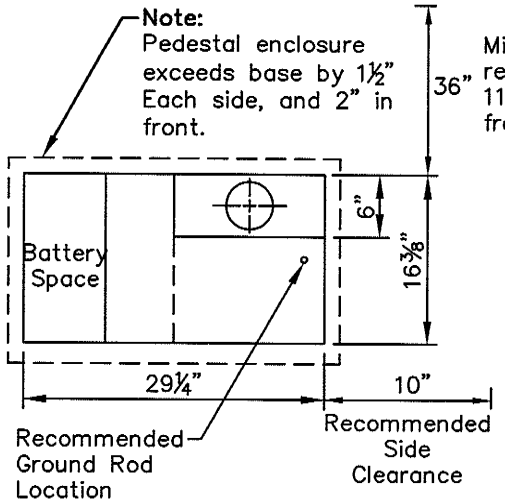
TOWN OF MARANA ARIZONA

STANDARD DETAIL	DETAIL NO:
UPS AND ELECTRIC SERVICE	730-1810
DATE: 9/9/05 / REVISED:	SHEET 1 OF 2

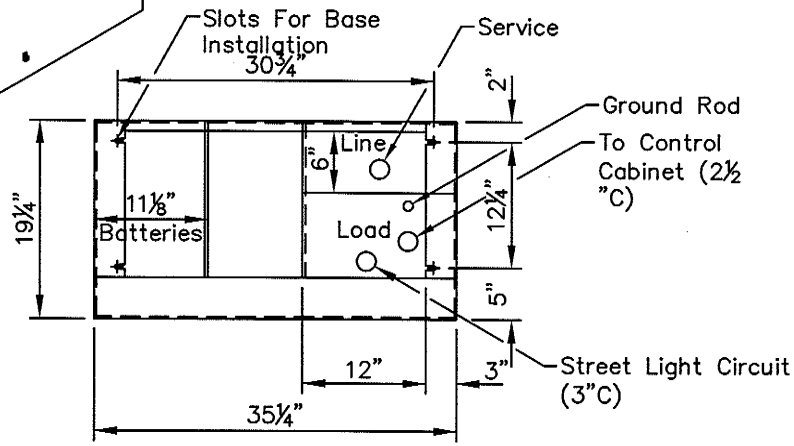




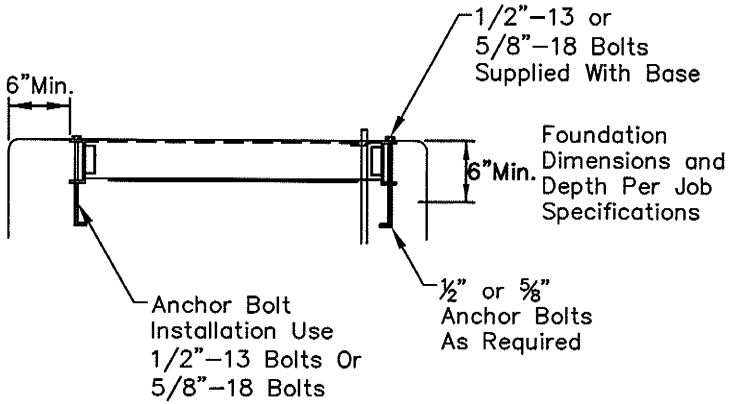
SIDE VIEW
Not To Scale



PLAN VIEW
Not To Scale



PEDESTAL PLAN VIEW
MOUNTING SLOT DETAIL
Not To Scale



FRONT VIEW
Not To Scale

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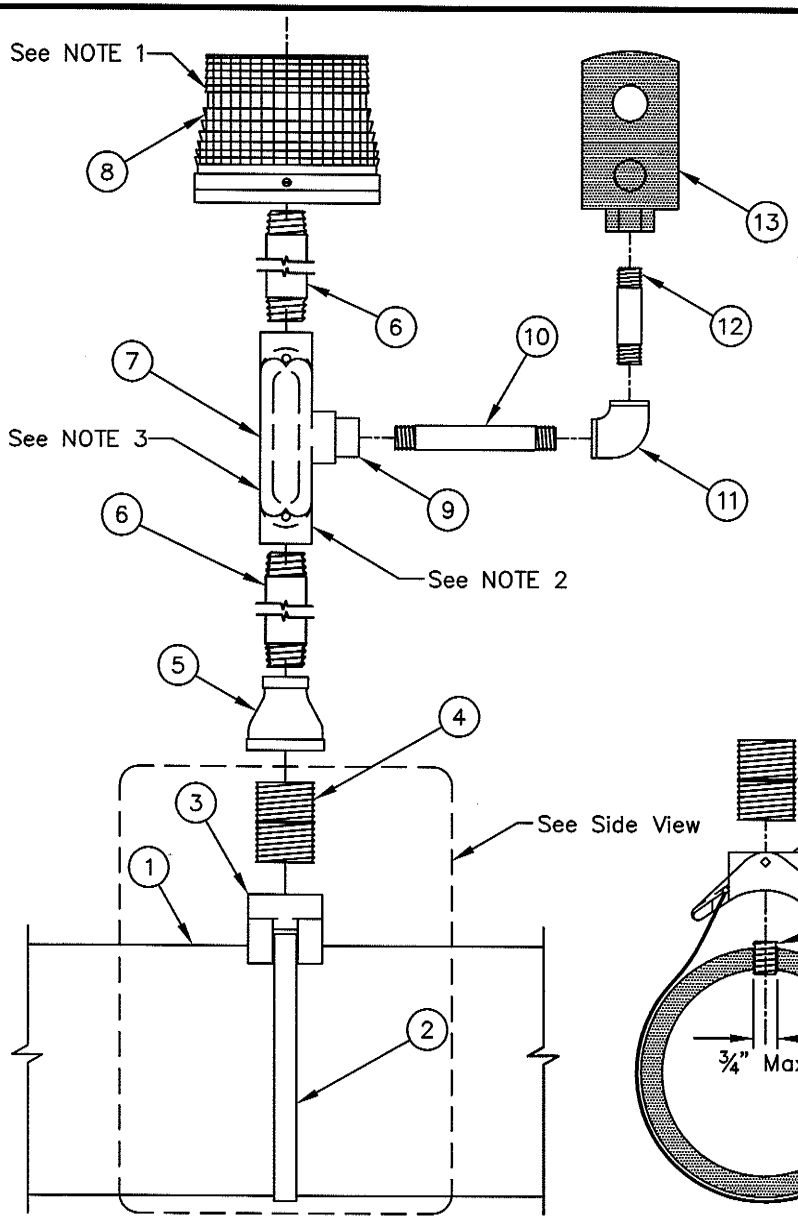
9/9/2005

Keith E. Brann, P.E., Date
Acting Town Engineer

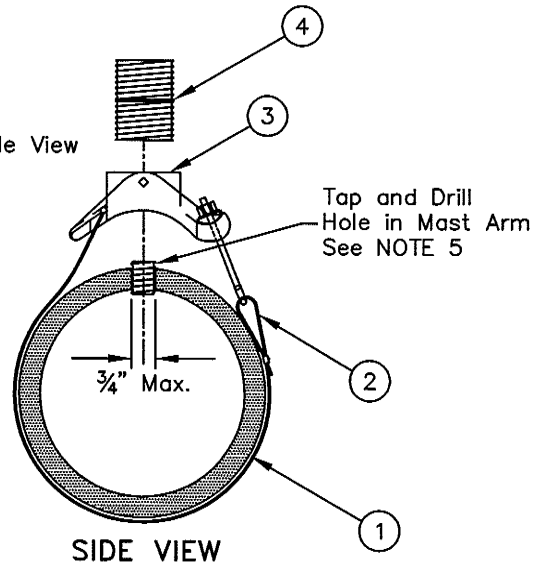
Registered Professional Engineer (Civil) 38119 SCOTT A. LESKA Date Signed 9/9/05 ARIZONA, U.S.A.

TOWN OF MARANA ARIZONA 1977

STANDARD DETAIL	DETAIL NO:
UPS AND ELECTRIC SERVICE	730–1810
DATE: 9/9/05 REVISED:	SHEET 2 OF 2



FRONT VIEW
Not To Scale



SIDE VIEW
Not To Scale

LIST OF MATERIALS		
Itm.	Qty.	Description
1	1	Signal Mast Arm (See Plans)
2	1	⅝" Banding
3	1	Pelco Astro Mini–Brac Band Mount AB–0121–42–NPT Or Approved Equal
4	1	1½" Chase Nipple (Black Pipe)
5	1	1½"–1" Reducer (Black Pipe, Painted Black)
6	2	12" Chase Nipple (Black Pipe)
7	1	1" Conduit Body C Style
8	1	Flashing Beacon, See Note 1
9	1	1"–¾" Reducer
10	1	3/4" Pipe Nipple, 5" Long
11	1	3/4" 90° Elbow
12	1	3/4" Pipe Nipple, 3" Long
13	1	Optical Detector

NOTES:

1. North/South pre–emption: Use clear beacon. East/West pre–emption: Use blue beacon. Whelen part No. IS3220I or approved equal.
2. Face plate shall face away from approaching traffic.
3. Conduit body shall be primed and then painted black.
4. 2' minimum spacing from any other penetration into mast arm.

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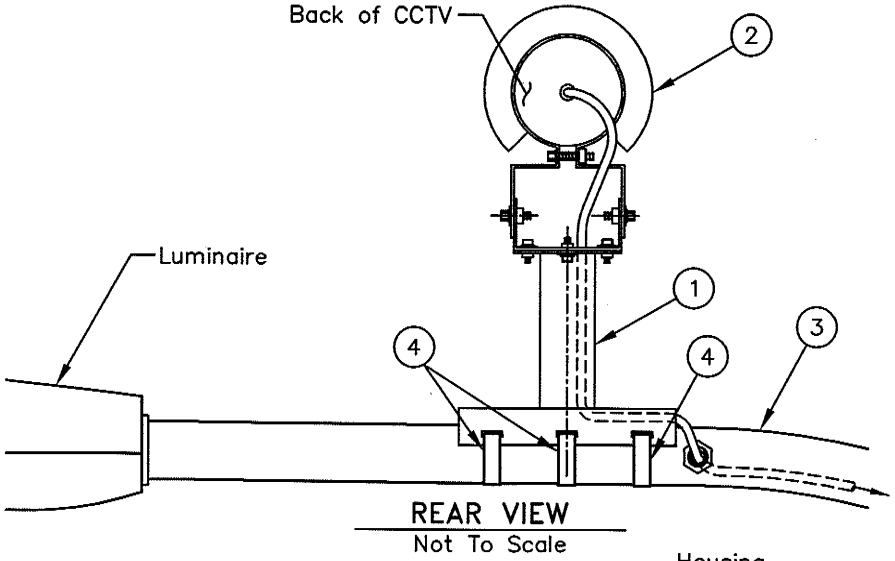
9/9/2005

Keith E. Brann, P.E., Date
Acting Town Engineer

Registered Professional Engineer (Civil) 38119 SCOTT A. LESKA Date Signed ARIZONA, U.S.A.

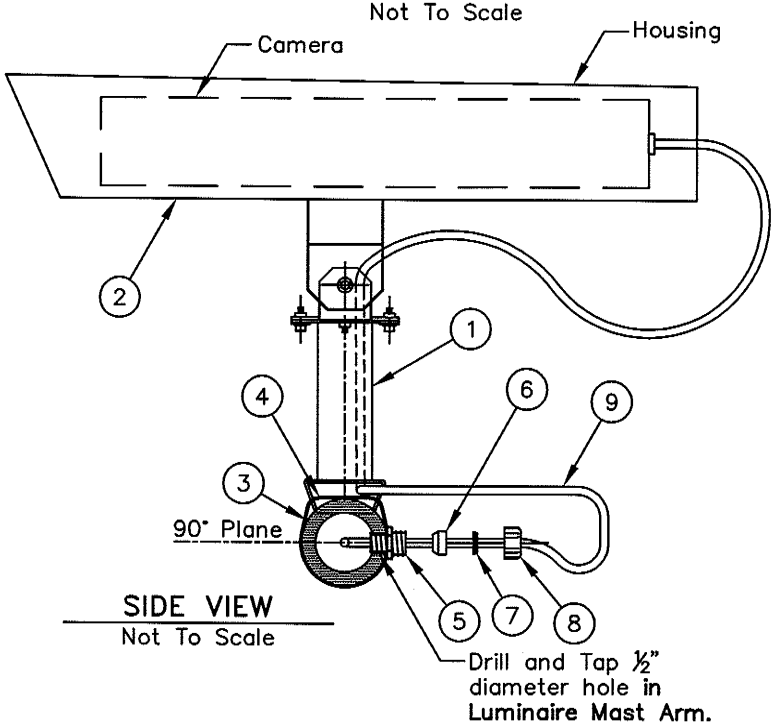
TOWN OF MARANA ARIZONA 1977

STANDARD DETAIL	DETAIL NO:
PRE–EMPTION MOUNTING DETAIL	730–1910
DATE: 9/9/05 REVISED:	SHEET 1 OF 1

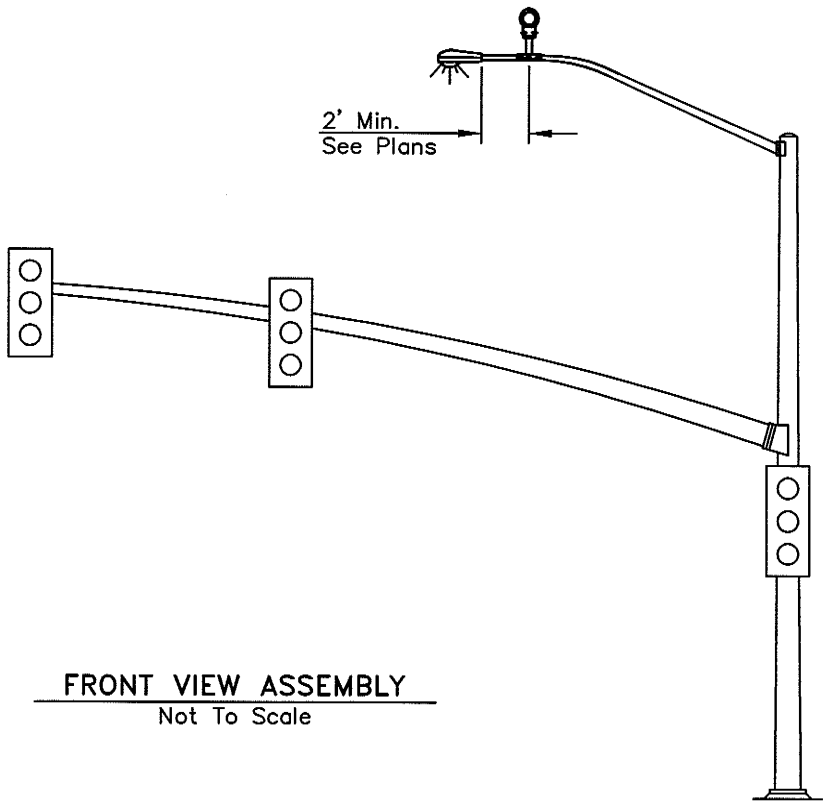


REAR VIEW
Not To Scale

LIST OF MATERIALS		
Itm.	Qty.	Description
1	1	Camera Mount
2	1	Camera
3	1	Luminaire Mast Arm
4	3	Banding
5	1	Chase Nipple (Black Pipe)
6	1	Gasket
7	1	Plastic Washer
8	1	Bolt
9	1	CCTV Cable Per Manufacturer Requirements



SIDE VIEW
Not To Scale



FRONT VIEW ASSEMBLY
Not To Scale

APPROVED FOR DISTRIBUTION:

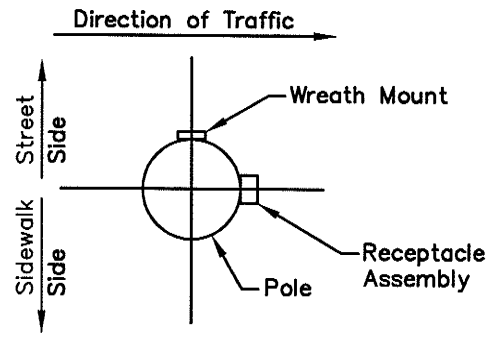
9/9/2005

Keith E. Brann, P.E., Date
Acting Town Engineer

Registered Professional Engineer (Civil) 38119 SCOTT A. LESKA Date Signed 9/9/05 ARIZONA, U.S.A.

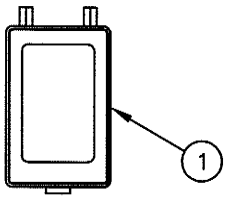
TOWN OF MARANA 1777 ARIZONA

STANDARD DETAIL	DETAIL NO:
CAMERA AND MOUNT ASSEMBLY	730-1911
DATE: 9/9/05 / REVISED:	SHEET 1 OF 1

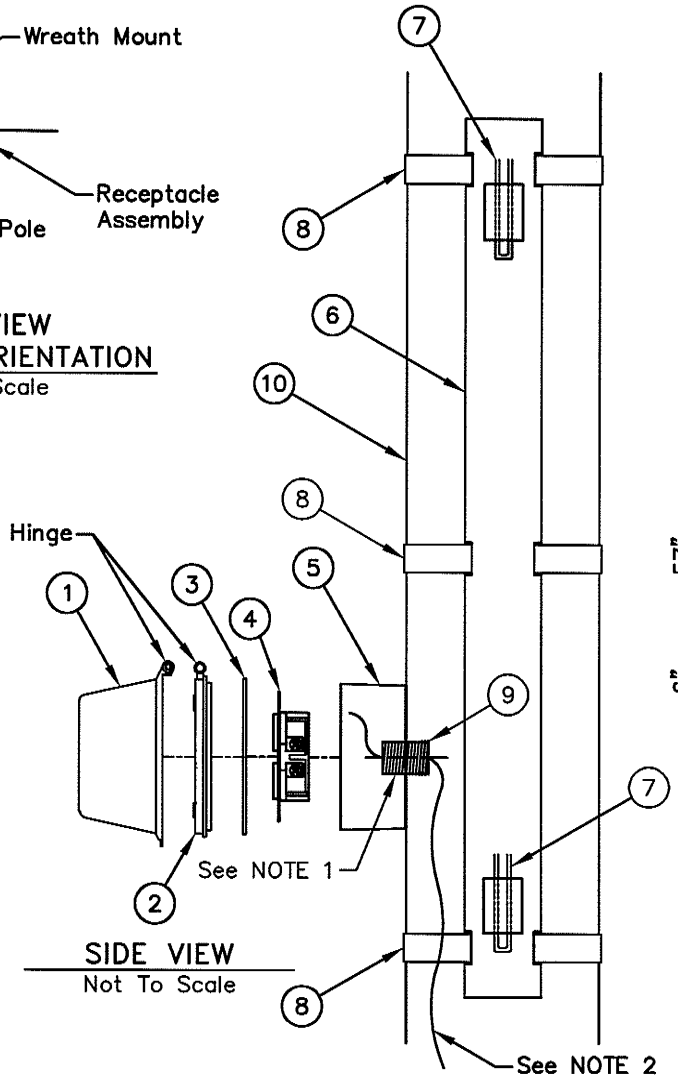


PLAN VIEW
SCHEMATIC ORIENTATION
Not To Scale

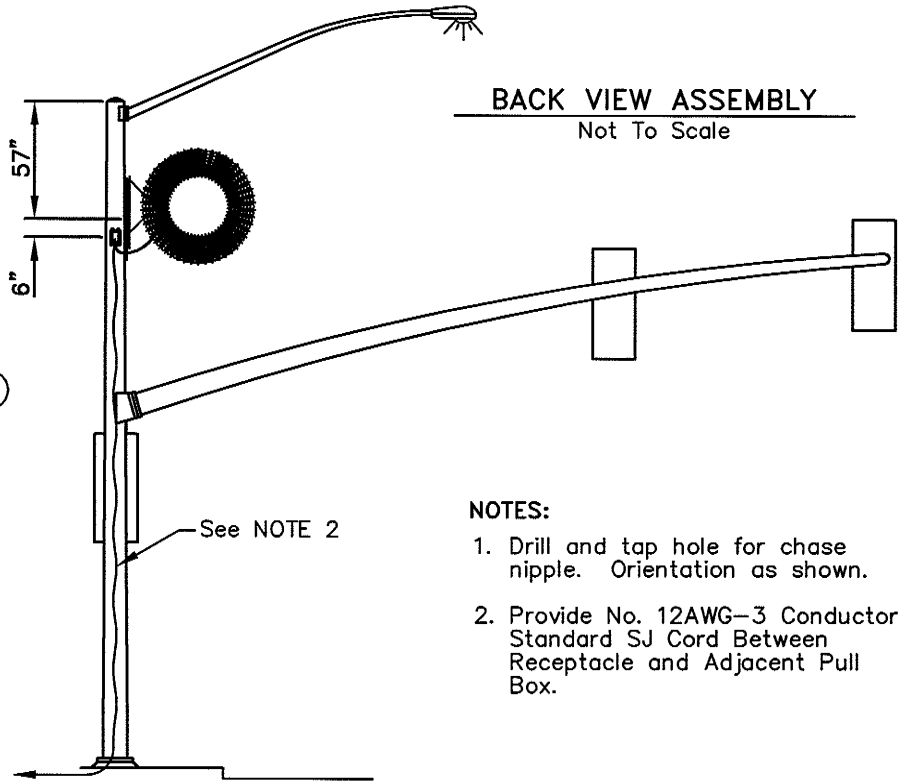
LIST OF MATERIALS			
Itm.	Qty.	Description	
1	1	Steel Receptacle Cover	Red Dot #CK MGV Or Approved Equal
2	1	Steel Receptacle Base	
3	1	Gasket	
4	1	Grounding Outlet, 2–Pole, 3–Wire 15 Amp–125 Volt Rated Capacity	
5	1	Outlet Box, Red Dot 14252 Or Approved Equal	
6	1	Wreath Mount	
7	1	Wreath	
8	3	Banding	
9	1	1" Chase Nipple (Black Pipe)	
10	1	Pole (See Plans)	



FRONT VIEW
Not To Scale



SIDE VIEW
Not To Scale



BACK VIEW ASSEMBLY
Not To Scale

NOTES:

1. Drill and tap hole for chase nipple. Orientation as shown.
2. Provide No. 12AWG–3 Conductor Standard SJ Cord Between Receptacle and Adjacent Pull Box.

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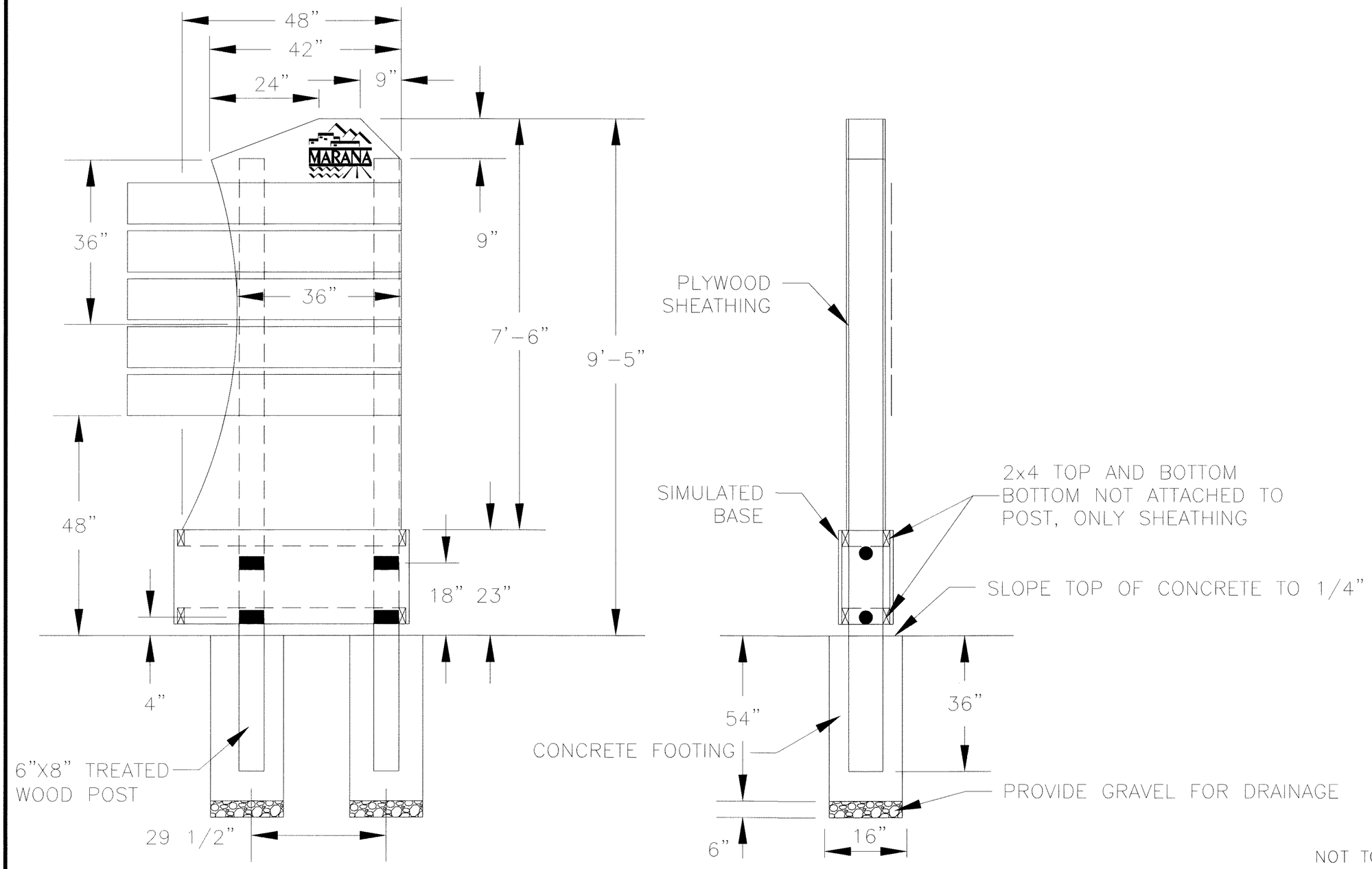
9/9/2005

Keith E. Brann, P.E., Date
Acting Town Engineer

Registered Professional Engineer (Civil) 38119 SCOTT A. LESKA Date Signed 9/9/05 ARIZONA, U.S.A.

TOWN OF MARANA ARIZONA

STANDARD DETAIL		DETAIL NO:
RECEPTACLE AND WREATH MOUNT		730–1912
DATE: 9/9/05	REVISED:	SHEET 1 OF 1



NOT TO SCALE

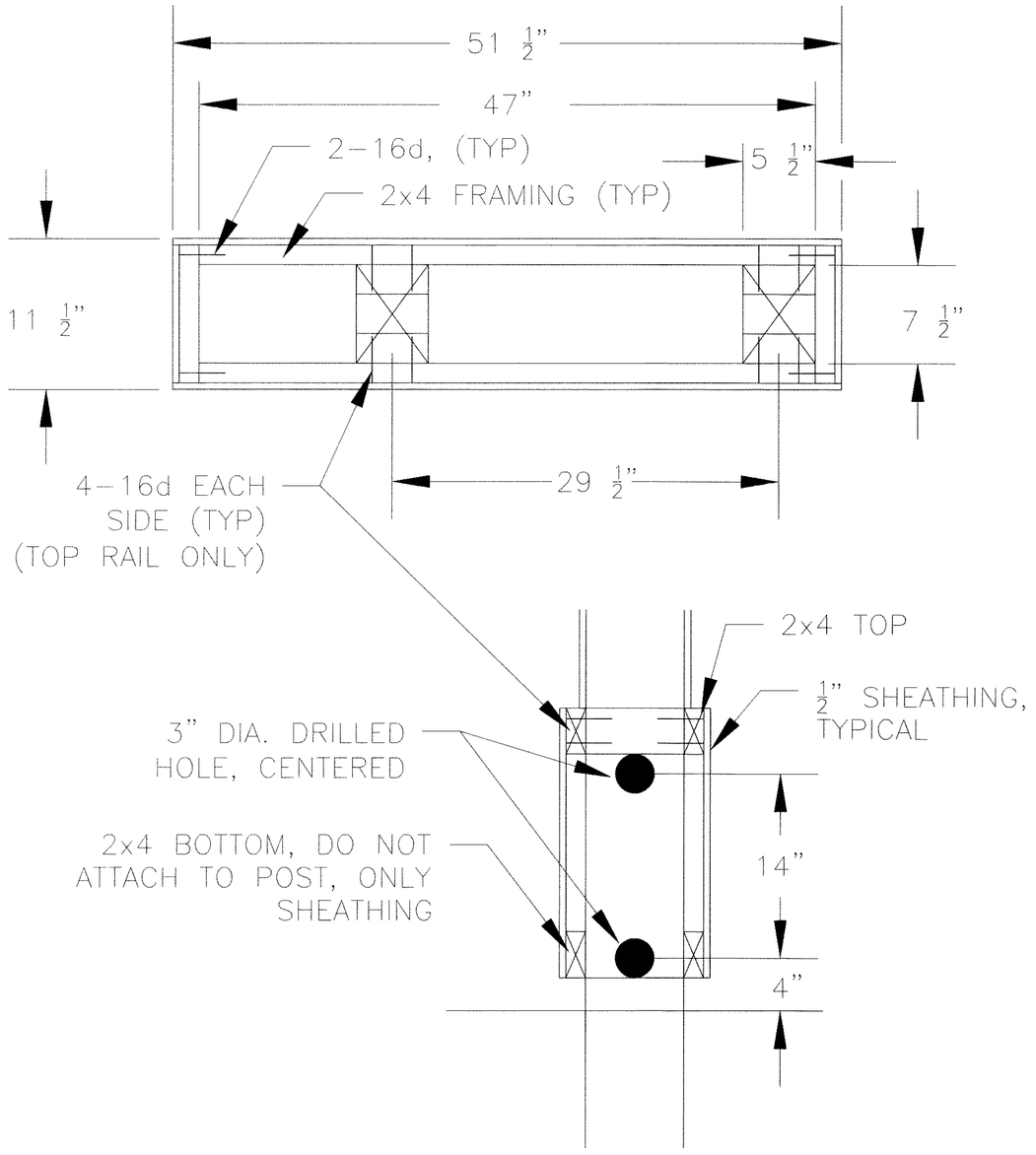
APPROVED FOR DISTRIBUTION:

Keith E. Brann, P.E.,
Town Engineer

Registered Professional Engineer (Structural) CERTIFICATE NO. 43897 KELLY A. MORALES Date Signed 02/24/11 ARIZONA U.S.A.
EXP. 03/2012

TOWN OF MARANA 1917 ARIZONA

MARANA STREET STANDARDS		DETAIL NO:
WAYFINDING SIGN		740-1
DATE: 3/28/2011	REVISED:	SHEET 1 OF 2



DESIGN NOTES

1. SHEATHING TO BE ½" EXTERIOR GRADE PLYWOOD
2. POSTS ARE 6"X8" D.F. NO 1 PRESSURE TREATED.
3. THREE INCH DIAMETER HOLES TO BE DRILLED PARALLEL TO SIX INCH SIDE OF POSTS PER DETAILS
4. SIGN PLATES ARE ALUMINUM SHEETING, RETROREFLECTIVE WITH MUTCD TYPE 6B LETTERING
5. SIMULATED BASE SHALL NOT HAVE ANY FIXED MOUNTING AT OR BELOW BREAK–AWAY HOLES
6. FRAMING FOR SIMULATED BASE SHALL BE 2x4 D.F. NO 2 PRESSURE TREATED LUMBER
7. CONCRETE STRENGTH, F'c=2500psi (SPECIAL INSPECTION NOT REQUIRED)
8. SOIL BEARING PRESSURE=1500psf, SOIL LATERAL BEARING PRESSURE=100psf PER 2006 IBC TABLE 1804.2
9. THE SITE DESIGN IS NOT CONSIDERED SUBJECT TO WIND SPEED–UP EFFECT, Kzt≤1.0 AS DEFINED IN SECTION 6.5.7.2 OF ASCE 7–05. ANY SIGN LOCATED WITHIN 125 FEET OF A 25 FOOT OR HIGHER HILL OR ESCARPMENT MAY BE SUBJECT TO SUCH EFFECTS AND SIGN REDESIGN WOULD BE REQUIRED. CONTACT ENGINEER OF RECORD IF SUCH EFFECTS ARE PRESENT. (1)
10. PROVIDE GRADE SLOPE AWAY FROM BASE OF POLES.
11. IT IS RECOMMENDED TO REPLACE WOOD POSTS EVERY FIVE YEARS DUE TO NORMAL CLIMATE EXPOSURE
12. ALL NAILING SHALL BE PER THE 2006 IBC TABLE 2304.9.1
13. SIMULATED BASE SHALL NOT HAVE ANY FIXED MOUNTING AT OR BELOW BREAK–AWAY HOLES.

(1) WIND FACTOR CLARIFICATION 03.28.11

NOT TO SCALE

APPROVED FOR DISTRIBUTION:

Keith E. Brann, P.E.,
Town Engineer

Certified Professional Engineer (Structural) CERTIFICATE NO. 43897 KELLY A. MORALES Date Signed 03/28/11 ARIZONA U.S.A. EXP. 03/2012

TOWN OF MARANA 1 9 7 7 ARIZONA

MARANA STREET STANDARDS		DETAIL NO:
WAYFINDING SIGN		740–1
DATE: 3/28/2011	REVISED:	SHEET 2 OF 2

1. Statement discouraging private streets removed
2. Removed the 2500 ADT cap on collectors
3. Made reference to the Town's Procedural guide for preparing traffic studies instead of ADOT (the procedural guide was written after the original 2004 standards)
4. Level of service for street function has been changed from LOS C to LOS D in accordance with other Town documents such as impact fee studies
5. Street details are being pulled out of the street standards and collected with other Town details into a standard details book
6. Removed the ability to have driveways in a "T" or "Y" turnaround area as the geometry does not support them.
7. Created guidance for long cul de sacs to provide turnaround areas every 600 feet
8. Uncurbed intersection radius requirements removed, having the effect of the radius being tied to the nature of the road.
9. Clarified that when a deceleration lane is used on an arterial, the radius at that quadrant can be reduced to 25 feet from 40 feet.
10. Restricted mountainous terrain speed limits of less than 25mph to private streets. State law precludes posting a public street less than 25 mph.
11. The access requirements from ORD 2013.008 incorporated
12. Removed option for stabilized DG path in lieu of sidewalk as an outright option for large lot subdivisions. DG path would still be available as a design exception. The Town will only maintain hard surface sidewalks.
    a. Also removed reference to non-sidewalk subdivisions maintaining a 4 foot clear area.
13. Added a requirement that trees within 6 feet of the road edge use a root barrier that extends 3 feet below finished grade for a distance of 10 feet centered on the tree.
14. Removed restriction on outlet structures from private detention/retention facilities discharging into the right of way. That may be the natural discharge point. The Town will control how the discharge is done including energy dissipation.
15. Offsite flows are not allowed to be accepted into the street drainage system.
16. Cut off walls must extend 5 feet wider than the flow width on dip crossings.
17. Stipulated layer coefficients for pavement design rather than referring to ADOT guidelines. The layer coefficients are from the Pima County Roadway design guide that is normally used by the region.
18. Set the minimum pavement section for local streets to be 3" of asphalt over 4" of aggregate base in accordance with our new pavement management program. Set the minimum pavement section for commercial/industrial collector to be 6" of asphalt over 6" of aggregate base. Residential collector pavement section remains 3" of asphalt over 6" of aggregate base minimum. Note that Pima County has added a new equation to correlated R values in the region that leads to stouter pavement sections. The 3"/4" minimum section satisfies this new method of pavement design.
19. Changed the ESAL factors to comply with modern factors from the City of Tucson
20. End of Road marking updated to be more in line with what has been requested over the years.

21. “Not a Town Maintained Street” signage will not be required if the private street is gated.
22. Design exceptions will no longer go to directly Planning Commission, but will be decided by the Town Engineer with the Planning Commission as an appeal body.
23. In consultation with Northwest Fire, street width for local streets has been reduced by 4 feet. The new section is 32’ back to back of rolled curb. This supports 2-6’ parking lanes and a 20’ fire apparatus/two-way driving lanes.

MARANA ENGINEERING

INTEROFFICE MEMORANDUM

TO: File

FROM: Keith Brann, P.E., CFM, Town Engineer

SUBJECT: 2016 Subdivision Street Standards update – comments received

DATE: June 1, 2016

As part of the outreach for the 2016 Subdivision Street Standards update, Town staff met with the technical advisory committee of SAHBA and the technical committee of the MPA. Staff also conducted a roundtable / over the shoulder review of the proposed changes. There have been a few refinements in the draft based on internal and external discussions. The Town also received formal comments that have led to refinements. Below are the comments received and clarifications of changes if needed. Changes are in Bold.

Town Initiated refinements:

1. Added an appeal process for design exceptions. In the currently adopted standards, all design exceptions go to the planning commission for approval. The first draft had the Town Engineer approving design exceptions with no recourse. The final draft will utilize the planning commission as an appeal process.
2. Backed away from allowing wedge curb. The currently adopted street standards do not use wedge curb. The Town had been revisiting using wedge curb and the prior draft did include a reference to it. After further review with management and public works, wedge curb will not be reintroduced to the Town's street sections. Wedge curb is available through the design exception process for private streets.
3. Detail drawings removed from street standards and placed in standard details book. There are more Town details than just the ones contained in the current street standards manual. We are combining all Town details into one document.
4. Reduced local street section width. In working with Northwest Fire, we have agreed that the parking aisle for a local street section can be reduced from 8 feet to 6 feet. This leads to a 4 foot reduction in paved asphalt width and right of way. It should be noted that the use of the rolled curb is acceptable for inclusion in a parking aisle but not in a fire apparatus lane. Should alternative sections be pursued though a design exception that removes a parking aisle, the remaining fire apparatus dimensioning cannot include the rolled curb.
5. Cul de sac details brought into compliance with international fire code (IFC). The IFC requires that cul de sacs use a 96' diameter. As noted in item 2 above, rolled curb is not to

be utilized for fire apparatus. Therefore the back of curb dimension for a cul de sac is 50 foot. (48' radius plus two foot width of rolled curb).

Comments from Redpoint development received April 18, 2016

2.1.1. Reference to posted minimum speed of 25 mph. The comment is; many times it is not posted. Recommend it be changed to "the design speed is 25 mph and drop "posted" or enforce the posted provision.

Response: All subdivisions should have at a minimum a posted speed limit just after entry. No change

3.0.6 Reference to improvements if street operation is below LOS D due to development at segments and/or intersections. I always like to set expectations and thought a few examples would be worthwhile such as right turn lane, bus pull-outs, no left turns, etc.

Response: Level of service is a broad characterization of a road and not meant to deal with individual elements. Although intersections can be rated by level of service, it is not the only consideration. No change

4.1.3. Here I thought since we are always not aware of interim issues with the General Plans Major Routes prior to an update a note about review with the Town Engineer for planning purposes would be appropriate prior to submitting application or plans.

Response: The general plan is typically updated on a ten year cycle. When it is updated there is significant public outreach. Even minor amendments, should they affect the major routes plan, would be discussed with affected landowners. No change

4.1.8. Reference to private streets and use of vehicle design of WB-40 or larger. No comment on/or about design exception and/or review with Town Engineer if alley's, shared motor courts, or other special private road conditions.

Response: Even alleys may need to accommodate large vehicles. That being said, all parts of the street standards can be subject to a design exception. No change

5.0.7. Just setting expectations. I would add: i.e. minimum distance is 20' per Town Code xxxxx.

Response: Section 5.0.07 reworded to include the 20 foot minimum distance between garage and sidewalk.

6.3. Please reference what you expect for minimum thickness of sidewalks adjacent to curb, away from curb, and at driveways.

Response: The standard details show sidewalk thickness. No change

6.3.7. No reference about access and parking requirements, signage, etc. for Post Office or residents if NBU's are adjacent to public road.

Response: Marana will let postal guidelines control design. No change

6.10.1f) No reference as to who maintains if installed in the public Right-of-Way.

Response: The preceding section 6.10.1.d clearly shows that a license agreement is required. No change

9.4. Curb openings. Just a question to answer because I did not see anything on it; Does the Town care if public roadway run off drains into a private basin or property? Not sure if maintenance, safety or other legal requirement to protect the design and safety of the roadway if water backs up on to a public road. Just seems if the integrity of the public road requires offsite improvements that are not part of the R.O.W. dedication that an agreement, licensing or other legal agreement be in place to protect the Town and public.

Response: In many cases, road drainage may make its way to a private basin or common area drainageway. The Town requires drainage easements to deal with the point discharge or entry of drainage at its facilities (erosion protection at the culvert entry/exit). If a blockage occurs outside of this area, the Town would use the floodplain code to enforce maintenance. No change

10.0 Pavement Design. Just trying to avoid a situation as it occurred in Pines I with the roadway. I think there should be a statement regarding below subgrade being properly compacted and no exception that would rule out someone writing a geotechnical report that gives them an out and leaves the Town with a problem a few years after the construction. Also I did not see a specific paragraph on the warranty period, when it takes effect, and how it is acknowledged. I know it is one year but felt it should be clearly stated as to when it starts and the notification. Also just a comment on the warranty State of Arizona Contractor warranty is two years. If it was built right and they care about their work two years should not be a problem.

Response: Subgrade compaction will be per the standard specifications. A geotech report would be relied upon to determine if special provisions are needed. As to the warranty period, the Town is looking into the 2 year timeframe – already being used for right of way permitting. Warranty begins at Town acceptance by council (Town code 17-5-5-C). No change

10.5. Paragraph and Table 7 reference to pavement design report refers to standard practice and materials. Would you considered Rolled Compacted Concrete (RCC) for a public road in lieu of ABC/AC? It is starting to be cost effective and most likely help reduce maintenance costs. It is not really part of the standards but something to consider.

Response: The Town can consider Roller Compacted concrete. My personal knowledge of the product is that it is for heavy duty pavements where ride quality is not a consideration. As a dry concrete mix that is not floated, it is subject to spalling and a generally rough surface. It would likely be more appropriate a part of a multi-layered pavement system with an asphalt surface course for ride quality. We will not prepare a standard drawing or list RCC in table 7 of section 10.5. No change

Comments from Baker Engineering received May 5, 2016

General comment – when/where can we find the Town's Standard Details as referred to throughout the new SSS?

Response: Standard details book to be adopted concurrently

Section 4.2.2 – why are driveways no longer going to be allowed off of T/Y turnarounds?

Response: Typical behavior of guests and commercial visitors is to not park in driveways. The T/Y turnarounds do not support on street parking. Prohibiting driveways reduces on street parking conflicts. No change

4.2.5 – will maximum dead end street lengths be available for modification via Design Exception on a case by case basis?

Response: All sections of the street standards can be subject to a design exception request. Note that section 4.2.5 does not place a maximum dead end street length. No change

4.3 – are the minimum design speeds applicable to public and private streets or are there allowances for lower speed limits (if desired) on private, non-mountainous streets?

Response: The Town could consider a lower speed limit than 25 as part of a design exception. The Town would restrict this ability to private streets. No change

4.6.1 – why was the 1% minimum cross slope removed?

Response: The Town has had drainage issues with 1% crowned roads, especially when combined with shallow longitudinal slopes. Note that this section applies to "normal" cross slope. Warpage areas would not be subject to this requirement. Also, though not a standard section, the Town would consider uniform cross slope as shallow as 1%. Statement clarifying use of 2% and 1% added.

4.9.2 – is this for residential driveways only? If not, why can't commercial drives (with large trucks with large turn movements) utilize radiused driveways which would offer significant advantages for such large traffic? Or is this what 4.9.3 is referencing?

Response: Section 4.9.2 would generally apply to residential driveways based on our typical sections for residential streets that use mountable curbs. Section 4.9.3 applies to commercial drives as those sections have barrier curb. Note that section 4.9.3 does not stipulate curb type, so even if a mountable curb existed at a commercial driveway a full driveway opening/apron would be required. No change

6.2.2 – Have the PAG details been adopted? Is the 4" the limiting height for only the roll curb? I was not able to find the PAG details so I don't know what height is shown for the wedge curb. 4" curb will significantly limit street capacity, especially on flatter roadways, so I wanted to clarify/be sure that with at least the wedge curb we have an ability to use at least a 5" reveal (if not 6") on the wedge. I have not heard any complaints about our use of the 5" wedge curbs we've been using on the private streets recently in DM.

Response: PAG has adopted and published their details. Note that rolled curb is a MAG detail that we will continue to use, though we will be limiting it to the original 4" height due to the clearance issues we have experienced. Wedge curb allows up to 6" in height, though I would be more comfortable with 5 inches maximum. No change

6.2.3 – would it be better to perform this turn radius review as part of the preliminary plat process instead to make any required adjustments earlier in the design processs?

Response: The turn template can be shown early during the preliminary plat, but is required on improvement plans. No change

6.3.7 – are the NBU's allowed in the public ROW or are they required to be in common area?

Response: If an NBU needs to be placed in the ROW, it would require a license agreement. Our preference would be for them to be in a common area. No change

9.1 – thanks for changing my "should" to "shall" J

Response: No change

9.1 – why can we not be allowed to bring in historical offsite drainage onto a street? Is this for public streets only? Are we allowed to do so on private streets?

Response: Offsite flow brings a sediment load that becomes a maintenance issue. The Town does not desire to burden ourselves or an HOA with this maintenance issue. No change

9.2 – still no allowance for metal piping in public ROW?

Response: The Town for years has prohibited metal pipe in the ROW. This change brings the wording of the code into alignment with practice. No change

10.5, Table 7 – is this for public streets only or do the new pavement sections apply to private streets as well?

Response: The street standards apply equally to public and private streets. No change

10.9 – I presume a bond is an acceptable form of assurance here?

Response: Yes, a bond is an acceptable form of assurance. No change

Comments from Barbara Rose received April 15, 2016

that street standard updates take into consideration conserving small and historic roadways within important habitat corridors as development patterns change (example, Fort Lowell Road between Swan and Craycroft)

Response: The street standards are for new construction. Reconstruction would first try to see if the new standards are feasible. If they are not, customized street sections would be arrived at through the design exception process. No change

that as the Town grows, current and future road and development design (residential, commercial, industrial) helps to support and regenerate areas of historic and biological significance for future generations

Response: Where the standards do not accommodate specialized situations such as historic or biologically significant areas, design exceptions would be warranted. No change

that best management practices save money, infiltrate stormwater where it falls, reduce heat island effect, and celebrate the value of our Sonoran Desert's native vegetation

Response: Although not a requirement, the water harvesting aspects of the new Pima County detention retention manual may be used by developments. No change

Comments from SAHBA received May 23, 2016

We continue to hear from developers and builders about the ongoing price sensitivities in our local housing market. As such, we would request your consideration and effort to identify corresponding cost offsets to the proposed changes in asphalt thickness. For instance, it seems a corresponding reduction in AB requirements would sufficiently meet the goals of the street standard update while also obtaining appropriate cost balance. Additional opportunities that could be identified would be supported as well. The root barrier requirement also deserves further consideration for the added expense but if it also truly accomplishes the intended goal.

Response: Based upon new information by Pima County regarding correlated R values for soils used in geotechnical pavement design, the proposed 3" asphalt over 4" of aggregate base is a minimum section that should be used. No reduction in aggregate base is warranted. However, the Town has been working with Northwest Fire regarding street width requirements. We have been able to agree to reduce the width of parking aisles and resulting street widths by 4 feet, providing a sizeable offset for the increased pavement thickness requirements. No change beyond the street width reduction cited.

Comments from Planning Center received May 27, 2016

We commend the Town on its efforts toward updating the Street Standards document and find it to be very helpful on the whole. However, we offer the following comments in relation to the Town's proposed requirement for root barriers on all shrubs and trees within 6' of edge of pavement (within public rights-of-way):

We have significant concerns about the new requirement for 3' deep root barriers on all shrubs and trees. While we appreciate the concern for preserving pavement and its substructure, we do not feel this is the most efficient, cost effective or safest approach; nor is it conducive to the health safety, and welfare of the public.

There is a substantial amount of information that is missing in this proposed requirement such as: type of barrier material, distance of barrier from edge of pavement, distance of barrier from plant, length of barrier, maintenance of barriers, and the like.

Foremost though, it is our professional opinion that root barriers are unproven (lacking verifiable data or study) within our region as to their efficacy on preventing root growth and water under roadways while maintaining tree health. It is our experience that:

- *Root barriers can have negative impacts on healthy plant growth, form and survivability through limitations to the root structure and root form. Unhealthy root structure caused by root barriers can also lead to overturned trees during high wind. Some root barriers run parallel to roadsides (along the back of curb) while other root barriers entirely circle root systems. Both limit a plants ability to establish a healthy root system. While many root barriers are made of plastic, some fabric barriers are impregnated with herbicide. The introduction of a permanent herbicide along streetscapes will have long lasting negative effects for soil health and vegetation growth.*
- *Shrub root growth does not warrant root barriers due to the limiting width of their root structure generally. Regarding tree root growth, recent studies seem to indicate that some roots which are deflected vertically downward grow back up to the soil surface on the other side of the barrier.*
- *If the concern is potential for excessive irrigation water (leaks or over watering) underneath the roadway then we suggest the following alternatives when trees are within 6' of edge of pavement of back of curb:*
    - *Alt Solution – 1 Require deep root watering system on all trees within 6' of edge of pavement.*
        - *Result – Trees exhibit healthier growth and form. Trees grow a deeper root structure (roots are encouraged to grown downward and away from pavement) Trees with a deep root structure arestronger and safer in high-wind conditions and monsoon storms. Additionally, the requirement for deep root watering systems on all trees within 6' of edge of pavement will actually increase plant viability. For example, a significant number of Oak and Ash Trees along Tangerine Farms Road and Marana Main Street (less than 10 years old) currently appear stunted and in decline. Deep root watering systems at the time of installation would likely have encouraged healthy growth.*
    - *Alt Solution 2- Require flow sensors and smart controllers for trees within 6' of edge of pavement.*
        - *Result - This combination detects leaks and shuts down irrigation to affected areas and notifies contractors of need for on-site visit.*
    - *Alt Solution 3 - Require soil moisture sensors and smart controller located adjacent to areas with trees within 6' of edge of asphalt.*
        - *Result – Soil moisture sensors sends when soil is oversaturated and smart controller adjusts irrigation accordingly and/or send warning to contractor.*

In short, the best way to prevent root or irrigation water from harming roadways or their substructure is proper installation techniques and proper maintenance techniques (namely irrigation).

We look forward to working with the Town in developing alternatives that meet concerns for preservation of the roadway while maintaining a beautiful streetscape and roadway experience that aligns with the Town's strategic plan.

Response: Town staff reviewed the Planning Center's concerns and suggestions and will make the following clarifications and changes:

1. The root barrier will only apply to trees, not shrubs.
2. Deep watering of trees as suggested in alternate 1 will be implemented
3. The Town will create a detail showing main irrigation water line placement to insure that the main lines are as far as practicable from the curb line

1.0 INTRODUCTION & PURPOSE

1.1 Introduction

The majority of these standards were originally prepared by the Pima County Department of Transportation and Flood Control District (PCDOT & FCD). They ~~have been~~were modified to address the specific conditions and needs of the Town of Marana, and ~~are~~were first adopted by Mayor and Council under Marana Ordinance 2004.08 in May of 2004. These standards, as presented in this manual ~~with those modifications to guide land use planners and design engineers in~~, represent requirements for the preparation of subdivision plats, development plans, improvement plans and master planning documents. ~~The Town discourages the use of private streets, however, these~~ These standards apply equally to both public and private local roadways within all subdivisions and land development roadway construction or reconstruction within the Town of Marana, and are intended to be consistent with national standards and local policies and procedures. These standards are guidelines, which will be enforced as written~~,~~; however, it is recognized that there are situations for which these standards may not be applicable. In these cases, and in cases of conflict or contradiction, sound engineering judgment consistent with accepted practice and approved in writing by the Town Engineer shall be used.

Those portions of these standards prepared by PCDOT & FCD ("Subdivision Street Standards", Oct. 1989) have been reproduced herein under permission by Pima County.

1.2 Purpose

These standards are intended to provide for the public health, safety and welfare of the ~~motorist and pedestrian~~ traveling public. They are minimum standards for local streets which, if not met or exceeded, ~~would~~could create deficiencies resulting in a threat to public health, safety and welfare, as well as higher user costs and public losses. They have been adopted to reduce maintenance and liability costs borne by the residents of Marana.

In order to be responsive to the needs of roadway users within proposed and existing residential neighborhoods, these street development standards have been established to:

- Provide for streets of suitable location, width, and improvement to safely accommodate vehicular, cyclist, and pedestrian, ~~and disabled pedestrian~~ traffic;
- Afford satisfactory access to emergency services, sanitation, school bus, street maintenance, and utility equipment;
- Coordinate street improvements, both public and private, so as to ~~compose~~create a convenient system and avoid undue hardships to adjoining properties;
- Establish safe, effective, efficient, sustainable and attractive ~~pedestrian friendly~~multi-modal transportation systems, which provide linkages and interconnectivity of developments;
- Provide adequate continuity, length, and width for walkways;
- Provide for visual and functional enhancement of streets and walkways through the use of natural and introduced landscapes;

- Encourage traffic management plans by private developers;
- Design streets to balance traffic between ~~automobiles~~vehicular, cyclist, and ~~pedestrians~~pedestrian traffic; and
- ~~Encourage~~Provide a street network design that includes enhanced safety and aesthetic characteristics and encourages curvilinear streets, ~~streetscape~~streetscaping, and route continuity between ~~subdivisions~~neighborhoods.

1.3 Applicability

These standards are intended to apply to all residential subdivisions in the Town ~~districts R6 through RD180. Standards for developments which are residential and have greater or lesser densities will be evaluated on a case by case basis~~.

2.0 FUNCTIONAL CLASSIFICATION AND INCORPORATED REGULATIONS

2.1 Functional Classification

There are four ~~(4)~~ broad functional classifications of streets as defined by the American Association of State Highway and Transportation Officials (AASHTO): local, collector, arterial, and freeway (limited access). This document is limited in concern to the design characteristics of local streets associated with subdivisions and developments, with particular attention to residential land development.

1. Local Streets: Local streets serve as access to residences, businesses or other abutting properties. Local streets are generally two ~~(2)~~ -lane undivided roads with at-grade intersections and may have frequent driveway access. Local streets are intended and designed to provide access to abutting residential areas and ~~supply~~carry this traffic to collector roadway systems. The design volume of these streets should be less than ~~one thousand (~~1000~~)~~ average trips per day (Average Daily Traffic (ADT)). Local streets must be designed for and posted with a minimum speed of ~~twenty-five (~~25~~)~~ miles-per-hour (mph). Lower design speeds may be used for mountainous private roadways (see Chapter 4.12).

2. Commercial and Industrial Subdivision Streets: Commercial and industrial subdivision streets are to be designed in accordance with the above criteria, with special consideration of expected wheel loads, vehicle dimensions, and proposed use. Please refer to AASHTO's "*A Policy on the Geometric Design of Highways and Streets*" as well as the project's Traffic Impact Analysis for further design guidelines and data pertinent to these facilities ~~(see Appendix)~~.

3. Local Collectors: Local ~~(residential)~~ collectors ~~(also referred to as primary residential streets)~~ are generally limited-access two-lane roadways that are striped with centerline and multi-use lanes. These streets are intended to serve as the main access point for a subdivision ~~(see Appendix)~~. The design speed for this type of street should be 35 MPH (to be posted at 30 MPH) ~~and the design volume should be no more than 2500 vehicles per day~~. The parking of vehicles and residential driveway access should be prohibited on these streets at all times.

It is recognized that there are specialized types of developments such as retail, office, industrial, mobile home parks, recreational, and cluster housing which vary widely in operational requirements. Design of these projects has been provided for as much as possible within this document.

2.2 ~~2.2~~ Incorporated Regulations Adopted by Reference

This manual establishes engineering design practices for local roadway construction associated with land development within the Town of Marana. For items not covered herein, such as collector ~~street~~ and arterial roadway designs, the engineer shall design in accordance with the latest ~~editions of References listed in Chapter 14.0.~~ Town of Marana Typical Roadway sections.

The following adopted standards, ordinances, or policies are also applicable and should be referred to by the design engineer as appropriate:

1. Marana Land Development Code;
2. Town of Marana Master Transportation Plan;
3. Town of Marana General Plan;
~~3.~~ 4. Adopted Area, Community, Neighborhood and Specific plans;
~~4. Northwest Marana Area Plan Amendment;~~
5. Conditions of zoning and rezoning;
6. ~~Town of Marana Master Transportation Plan;~~ Conditions of adopted Development Agreements;
7. ~~"Floodplain and Erosion Hazard Management Ordinance", Town of~~ Marana Standard Details; and ~~PCDOT &FCD.~~
8. All reference materials as listed in Section 15-references

3.0 TRAFFIC STUDIES

Functional classification, roadway ADT, determination of number of lanes, design speed, required ~~offsite~~off-site improvements and design level of service shall be determined at the time of preliminary plat or development plan review, or master development plan preparation, as applicable (or rezoning if feasible) by the design engineer subject to approval by the Town of Marana. All projects that generate peak -hour trips ~~exceeding one hundred (100)~~of at least 100 vehicles are required to perform a Traffic Impact ~~Analysis~~Study as a condition of ~~Development Plan or Preliminary Plat.~~development plan, preliminary plat, or rezoning. For developments producing less ~~that one hundred (1 00)~~than 100 vehicular trips during the peak hour, the Traffic Engineering Manager will determine whether a Traffic Impact Study or Statement ~~shall~~will be ~~submitted~~required. This study or statement must be signed and sealed by ~~a civil~~an engineer licensed to practice in the State of Arizona, and must include, at a minimum, peak -hour traffic generation figures. For the preparation of traffic impact ~~analysis~~study or statement, the guidelines contained within ~~ADOT's "Traffic Impact Analysis for Proposed Developments" manual shall be followed, at a minimum, or as superceded by the Town of Marana's Traffic Impact Analysis Process Manual. In some cases, developments with less than one hundred (100) vehicles may be~~

~~required to do a Traffic Impact Analysis if deemed necessary by the Town.~~the Town of Marana's Procedures for Preparation of Transportation Impact Studies shall be followed.

1. For local streets, in the absence of more detailed information, ADT may be estimated from the number of units and the land use according to ITE's ~~"~~*Trip Generation*~~" report~~ *Manual*.

2. The potential for cut-through traffic using neighborhood streets shall be addressed. Cut-through traffic is defined as traffic that uses a residential street (or a route consisting of more than one street) solely for the purpose of connecting between two major (arterial or collector) streets. If it is expected that the volume of cut-through traffic may be significant, consideration shall be given to the use of traffic calming measures on the potentially impacted street(s). See the section in Chapter ~~12.0~~12.0, herein, on traffic calming devices.

   The ~~addition~~increase of proposed traffic through existing neighborhoods shall be addressed. In such cases, the new traffic forecasts are to be considered as "cut-through" traffic and the impacts on existing roadways examined. Appropriate traffic calming devices and techniques shall be identified and implemented upon approval of the Town Engineer.

3. Non-residential ADT ~~can~~may be ~~examined~~estimated using ~~the "~~ITE's *Trip Generation Handbook*~~", ITE~~.

4. Traffic demand forecasts must be made, including a summary of ~~background~~existing traffic plus approved, not-yet built development traffic, ~~plus~~and proposed project traffic.

5. Any project proposal, which would degrade an existing roadway below a ~~level~~Level of ~~service~~Service (LOS) ~~C~~D, must mitigate to maintain a minimum LOS ~~C~~D.

6. ~~An~~ A LOS of ~~C~~D or better shall be maintained on all off-site roadways and intersections that fall within the development's area of significant traffic impact (as designated by the ~~town~~Town and as depicted in the Traffic Impact ~~Analysis~~Study prepared for the development). Improvements are required if the roadway segment or the intersection will operate below LOS ~~C~~D due to traffic generated by the development. Such improvements shall upgrade the LOS to ~~C~~D or better.

4.0 STREET LAYOUT & GEOMETRIC DESIGN

All subdivision and development related street ~~design~~designs shall conform to this document. Where not provided for herein, design engineers shall refer to those supplementary standards listed in Chapter 2.2.

4.1 ~~4.1~~ Street Layout

1. All rights-of-way and street sections shall be designed and constructed to the full dimensions as shown in the ~~Appendix~~Town of Marana Standard Details.

2. Where partial streets exist adjacent to the tract being developed, the remaining right-of-way must be dedicated and improvements must be made to the street as required by the Town Engineer.

3. Proposed developments shall provide for the continuation of Town of Marana Major Routes (as depicted in the circulation element of the Town's General Plan), existing arterials and collector street right(s)-of-way where appropriate.

4. The local street system shall be arranged to encourage traffic connectivity within the development and region. ~~Traffic calming devices such as traffic circles and circuitous~~ Circuitous through routings are to be encouraged. ~~See Chapter 12.0, Neighborhood Traffic Management.~~

5. ~~Lots fronting on major streets are to be discouraged. However, when lots must front on a major street, proposed developments will be required to provide sufficient right-of-way for local service or access streets (frontage roads) along major streets and routes. Other treatments to protect residential properties by separation of through and local traffic will be considered.~~ Residential lots are not allowed to have direct access to collector and arterial streets.

   a. If frontage roads are used to provide access, they shall be designed such that improper intersections with streets do not occur. Frontage ~~streets~~roads, by their nature, intersect with entrance drives at close distances. However, they shall not intersect with new or existing streets at points less than that specified by Town Code (see off street parking requirements in ~~Title 22 of~~ the Marana Land Development Code).

   b. Frontage roads shall have adequate turn-around areas for the design vehicle at roadway termini ~~(see Appendix)~~.

6. The proposed development shall provide streets in conformance with the Town of Marana Major Routes Plan (as depicted in the circulation element of the Town's General Plan), all existing specific plans, residential design guidelines, and ~~area~~other plans that are approved and adopted by the Town Council.

7. ~~As determined by area plans, stub~~ Stub streets required for future extension shall provide temporary turnaround areas at the stub end ~~(see Appendix).~~

8. ~~8. Private~~If private streets are ~~discouraged. If allowed~~used as part of a development, entrances to gated, private streets shall include a ~~tum~~turn-around area entirely contained between the ultimate public right-of-way and the proposed gate. The ~~tum~~turn-around area shall be designed ~~in accordance with the requirements of Chapter 4.2 herein~~to accommodate a design vehicle of WB-40 or larger.

9. ~~9.~~ In order to maintain an 85th percentile speed of 25-30 MPH, it is recommended that local street tangents be no longer than 500 feet between speed control points. A speed control

point is defined as a break in continuity (such as a stop-controlled intersection), a properly designed horizontal curve, or a traffic calming device approved by the Town.

4.2 ~~4.2~~ Cul-de-sacs

Permanent dead-end streets shall be designed with an adequate turnaround area at the ~~dead-end~~roadway terminus. In accordance with Town standards, the turnaround area may not be required on dead-end streets less than ~~one hundred fifty (~~150~~)~~ feet in length if ~~Municipal~~ services, such as fire, sanitation, school buses, maintenance equipment, delivery and repair vehicles, and postal service, can be provided without the use of the street. Cul-de-sac/dead-end length is measured from the curbline of the last street intersection to center point of turnaround. Turnarounds may be designed as ~~cui~~cul-de-sacs ~~or~~, "T" or "Y" shaped configurations ~~as shown in the Appendix~~.

1. ~~1.~~ The cul-de-sac is preferred at all times for local street turnarounds because of its overall efficiency and maintainability, as well as for operational considerations pertaining to certain types of vehicles (e.g., fire trucks & school buses).

   ~~a) The paved turnaround radius shall be a minimum of forty-two (42) feet measured to the edge of pavement, back of rolled curb or gutter, whichever is provided~~The paved turnaround's geometry and right(s)-of-way shall conform to the standards set by the Town's Standard Details.

~~b) The turnaround right-of-way radius shall be a minimum of fifty (50) feet.~~

2. ~~2.~~ "T" and "Y" shaped turnarounds may be used for dead-end streets which have a projected ~~A.D.T.~~ADT of ~~eighty (~~80~~)~~ or less. Vertical curb is required in ~~the turn-around area, unless it is desirable to provide access to individual units. In such cases, rolled curb may be used.~~this type of turn-around area and driveways are not permitted.

3. ~~3.~~ Improvements to existing dead-end streets on abutting properties may be required during rezoning or subdivision platting. The purpose of these improvements ~~shall be~~is to allow proper through connection of future streets. Through ~~connection~~connections may require ~~that~~ the developer to remove abandoned cul-de-sac pavement on the abutting property ~~(see Appendix)~~, and that the full pavement section be carried to property line.

4. ~~4.~~ Where temporary turnarounds or ~~cui~~cul-de-sacs are designed for a future extension to abutting properties, a note shall appear on the final plat listing the street name and indicating the temporary nature of the cul-de-sac condition.

5. Permanent dead-end streets longer than 1200 feet in length shall have turnarounds throughout the total length so the distance between turnarounds is no greater than 600 feet.

6. ~~5.~~ Cul-de-sacs may contain landscaping within a center area island ~~(refer to Appendix)~~if:

a. ~~a)~~ Vertical curb is used around the entire center landscaped area;

b. ~~b) The radius to the face of the curb is a maximum of eighteen (18) feet~~The radius of the landscaped center shall conform to the geometric layout as provided in the standard drawings;

c. ~~c)~~ The cul-de-sac is large enough to allow passage of the design vehicle without wheel paths encountering the curb;

d. ~~d)~~ The cul-de-~~sacs are~~sac is not proposed to be a future through ~~streets~~street;

e. ~~e)~~ The landscaping does not ~~impinge on~~obstruct sight visibility;

f. ~~f)~~ The Town of Marana shall not be responsible for maintaining cul-de-sac landscaping and a note to this effect shall be on the final plat. If landscaping is provided, the developer~~,~~ or homeowners association shall obtain a license agreement from the Town prior to the installation of landscaping. Landscaping irrigation runoff shall not be permitted to drain onto the roadway surface.

~~g) No dead-end street longer than six hundred feet shall be designed to permanently remain a dead-end street. See Town of Marana Land Development Code 06.03.03K for design guidelines.~~

g. The entire inside perimeter of the landscaped cul-de-sac shall be protected by a 36" deep root barrier.

4.3 Design Speed

The minimum design speed for local streets is ~~twenty-five (~~25~~)~~ MPH. The minimum design speed for ~~residential collectors~~collector streets is 35 MPH. Higher design speeds may be warranted for certain roadways, and lower design speeds may be used for mountainous roadways per Chapter 4.12.

4.4 Design Vehicle

All local streets shall be designed for a WB-40 vehicle as defined by AASHTO~~.~~ or other design vehicle as approved by the Town Engineer.

Non-residential subdivision streets and parking area access lanes (PAAL) shall be designed for the largest vehicles (including service and delivery vehicles) anticipated to use the facilities, all in consultation with the Town Engineer. Delivery and service routes are to be clearly shown on the development plan and/or preliminary plat, as applicable. A note shall be provided designating the design vehicle.

4.5 Horizontal Alignment

Minimum horizontal curve design criteria are shown in Table 1.

TABLE 1

Criteria	Local	Residential Collector
Design Speed (mph)	25	35
Minimum Center Line Radius (ft) (assumes 2% normal crown)	181	480
Minimum Horizontal Stopping Sight Distance (ft)	150	250

Consideration of driver expectancy and coordinated horizontal and vertical geometry shall occur in subdivision roadway design.

When two local road tangents are connected by a curve of less than the minimum radius, a "knuckle" or "eyebrow" ~~must~~intersection shall be constructed ~~(see Appendix).~~ as shown in the Town of Marana Standard Details.

Compound and reverse curves are discouraged for local roads. Where this type of configuration is absolutely needed, it is recommended that tangents be placed between the curves. Tangents increase driver comfort, expectancy and safety. Where tangents are used, a minimum tangent length of ~~one hundred (~~100~~)~~ feet is required.

4.6 Vertical Alignment

Vertical alignment shall generally conform to the natural topography within the following limits:

TABLE 2

Criteria	Slope
Max. Gradient – Local Driveway	14 % (in R/W)
Max. Gradient – Local Streets	7 % Level, 11% Rolling Terrain
Max. Gradient – Collector Streets except Mountainous	8 %
Minimum Gradient	0.5%

In mountainous terrain (see Chapter 4.12), local street gradients may be up to ~~fifteen (~~15~~)~~ percent, upon approval by the Town Engineer.

1. Normal roadway cross slope shall be minimum two ~~(2)~~ percent~~. (one (1) percent~~ for crowned roadways and minimum~~, three (3)~~ one percent ~~maximum).~~ for non-crowned roadways.

2. Cross slope for drainage design may be up to four ~~(4)~~ percent, at drainage crossings only.

3. ~~Maximum cul~~Cul-de-sac cross-~~slope~~slopes shall ~~be~~not exceed eight ~~(8)~~ percent.

4. Inverted crown streets are not acceptable for local streets. Inverted crowns may be used for Parking Area Access Lanes (~~PAAL's).~~PAALs) and alleys. Any inverted crown section with a longitudinal slope less than one percent requires a four foot wide concrete valley gutter, per Pima Association of Government standard details.

5. Minimum vertical (stopping) sight distance shall be ~~per~~in accordance with AASHTO's "*A Policy on Geometric Design of Highways and Streets*" guidelines, or ~~one hundred fifty (~~150~~)~~ feet, whichever is more restrictive. For other design speeds and grade ~~condition~~conditions, refer to AASHTO's "*A Policy on the Geometric Design of Highways and Streets*".

6. Landing areas are required for all stopped conditions. The maximum allowable grade for this landing area (on approaches to unsignalized intersections) is ~~three (3) percent (six~~3% (6~~) percent~~% in mountainous terrain, see Chapter 4.12), and this grade must extend at least ~~twenty (~~20~~)~~ feet in each direction from the outside edge of curb line of the intersecting street.

7. Vertical curves shall be required on local streets where the algebraic difference in grade exceeds one ~~(1.0)~~ percent. When the algebraic difference is ~~1.0~~one percent or less, a grade break ~~shall~~may be used. Use of the AASHTO vertical curve equation is preferred; however, a simplified method as shown below may be used. Using ~~that~~this method, the minimum lengths of vertical curves shall be determined by multiplying the algebraic difference in grades by the appropriate 'K' factor ~~from the table below, or as specified~~ in Table 3 ~~(whichever is greater):~~ :

Vertical Curve Criteria (for grades less than ~~ten (~~10~~)~~ percent)

TABLE 3

Design Speed	K Factor Crest Vert. Curve	K Factor Sag Vert. Curve	Minimum Length Curve
25	12	26	75
30	19	37	90
35	29	49	105

All vertical curves shall be symmetrical parabolic curves. The minimum length of a vertical curve in feet shall be three ~~(3)~~ times the design speed in miles per hour.

When grades are greater than ~~ten (~~10~~)~~ percent, vertical curves shall be lengthened in accordance with AASHTO's "A Policy on Geometric Design of Highways and Streets" design guidelines, to account for the increased ~~needed~~ stopping distance requirements.

4.7 Intersection Alignments

1. The centerlines of intersecting streets shall have an angle of intersection of as close to ~~ninety (~~90~~) degrees~~ °as is practical. In no case will the angle of intersection be less than ~~seventy-five (75) degrees~~75° for local street-collector/arterial intersections and ~~sixty (60) degrees~~70° for local street-local street intersections ~~(see Appendix)~~.

2. Right-of-way lines at the ~~comers~~corners of street intersections will be rounded with a curve radius of ~~twenty-five (~~25~~)~~ feet, or greater, as conditions may warrant. The radii must be adjusted at skew intersections to provide sufficient curvature. In all cases, adequate sight distance shall be maintained.

3. ~~Uncurbed intersections shall only occur where a new street intersects an existing uncurbed roadway in an interim state of development. Said interim intersections~~Intersections of arterial and major collectors shall have a minimum curve radius of ~~forty (~~40~~)~~ feet, except when acceleration/deceleration lanes are required. ~~Uncurbed intersections shall have concrete headers installed to prevent pavement raveling. A transition to full height curb~~

~~shall occur at the point of tangency of the radius.4.~~ Where acceleration/deceleration lanes are used, the curve radius may be reduced to ~~twenty-five (~~25~~) feet. Larger radii shall not be used, however, as the travelway width will increase to unsafe dimensions. In all cases the radius shall be designed to be adequate for the design vehicle.~~ feet on the acceleration/deceleration lane or as dictated by the turning radius of the design vehicle not encroaching on the opposing lane. -

4. Uncurbed intersections shall only occur where a new street intersects an existing uncurbed roadway. Uncurbed intersections shall have concrete headers installed to protect the pavement edge. A transition to full height curb (if applicable) shall occur beyond the right of way or clear zone, whichever is greater.

5. Street jogs with centerline offsets of less than ~~one hundred thirty-five (~~135~~)~~ feet shall not be allowed ~~(see Appendix)~~.

4.8 Intersection Sight Distance

Clear lines of sight shall be maintained along all streets and driveways (including ~~PAAL's~~PAALs) to provide for the safety of ~~motorists,~~motorized and non-motorized vehicles and pedestrians~~, and bicyclists~~. Sight visibility triangles shall be ~~constructed~~depicted in accordance with AASHTO criteria or as shown in the ~~Appendix~~Town of Marana's Standard Details based on the design ~~speeds~~speed of the through street and the near side and far side distance requirements from the following table:

TABLE 4

Design Speed of Through Street (mph)	Near Side Requirement (ft)	Far Side Requirement (ft)
20	180	140
25	240	190
30	300	240
35	380	300
40	480	370
45	600	470
50	740	580
55	890	690

On streets with one-way traffic and on streets with two-way traffic separated by raised median islands (i.e. no opening) only the near side sight visibility triangle is required; however, a pedestrian visibility triangle shall be maintained in place of the far side triangle as shown in the ~~Appendix.~~ Town of Marana's Standard Details.

Where streets intersect in a cross configuration, each street is considered the intersecting street with the other street and shall be considered the through street for purposes of determining sight lines ~~(see the Appendix).~~ .

The near side and far side distance requirements of sight triangles along a horizontal curve ~~are to~~shall be measured along ~~a~~the chord ~~as opposed to~~of the curve (not along the arc ~~(see Appendix).~~)-Refer to the Town of Marana's Standard Details. The sight line of the sight triangles shall ~~supercede~~supersede standard building setback lines where the sight line requires a greater setback distance. Sight visibility triangles shall be depicted to scale and in a surveyable manner on all final plats, development plans, plot plans and landscape plans. The area within the sight visibility triangle must be entirely enclosed by the right-of-way, easement, or common area. ~~Restrictive notes~~

The following restrictive note pertinent to sight visibility triangles shall be required on plats, development plans, plot plans and landscape plans.

"No improvements and/or landscape materials measuring vertically between ~~thirty (~~30~~)~~ and ~~seventy-two (~~72~~)~~ inches in height relative to the adjacent roadways that might interfere with sight visibility shall be placed and/or maintained within the sight visibility triangle."

4.9 ~~Residential and Commercial Drive Entrances~~Driveway Access Requirements

Driveway entrances ~~present a potential hazard~~are to be designed for the ~~motorist and pedestrian. As such, the engineer should configure them to allow rapid and definite recognition by~~ rapid ingress and egress of vehicles from the traveling ~~public~~roadway.

1. ~~On~~All streets with vertical curbs~~, depressed curb (curb cuts) and aprons shall be used for driveways.~~ shall use driveway aprons. Driveway aprons shall be of ~~Portland~~portland cement concrete constructed to Town standards with a minimum length running from curb location to back of sidewalk location. ~~Standard curb returns may be used for service entrances, provided these entrances are clearly depicted as a "service entrance" on plats and development plans.~~

2. On streets designed with ~~roll~~mountable curb, driveways shall ~~butt to~~abut the back of curb or sidewalk, and shall not have curve radii, and ~~may~~shall be constructed of Portland cement concrete or asphalt.

3. ~~On existing uncurbed streets, driveways shall have returns with a radius of forty (40) feet. A six (6) inch by twelve (12) inch concrete header shall be placed adjacent to the pavement on all returns. If curb is used for drive entrances in other applications, radii shall not be less than twenty-five (25) feet, and curbing shall not extend into the public right-of-way if the public street is uncurbed.~~Commercial and Industrial driveways will be treated the same as street intersections with connections to arterials and major collectors with regards to driveway radii in accordance with section 4.7.3 unless the driveway is located within an auxiliary lane. Depressed curb driveways without radii may be used for driveways within auxiliary lanes.

4. ~~Dimensions and configurations of driveways may need to be adjusted to account for higher approach speeds (greater than forty (40) mph), traffic, roadway classification, design vehicle, and pedestrians. Measures may include widening, turn lanes, etc. Curb returns may be used in place of standard curb cuts only when one (1) or more of the following~~

~~conditions occur:~~ Depressed curb driveways without radii may be used for service entrances, provided these entrances are clearly depicted as a "service entrance" on plats and development plans.

~~a) The ADT of the driveway exceeds one hundred (100);~~

~~b) The points of access to a property should be limited for traffic control and other reasons; or~~

~~c) Local conditions occur which involve speed, the amount of truck traffic, or the type of development and which, in the Town Engineer's opinion, require curb returns.~~

5. Driveways shall not be located where conflicts will be created with drainage facilities, intersections, deceleration/right-turn lanes, roadway tapers and/or other improvements.

6. No residential driveways shall encroach into an intersection curb radius where residential streets intersect.

~~7. Commercial driveways shall conform to the Town of Marana Access Management Manual.~~

4.10 Roadway Superelevation

Superelevation is generally not necessary on streets designed for travel speeds of ~~thirty-five (~~35~~)~~ mph or less. Maximum superelevation shall be four ~~(4)~~ percent and runoff lengths shall be computed in accordance with AASHTO's "A Policy on Geometric Design of Highways and Streets".

4.11 Roadway Drainage Crossings

The cross-slope of roadways for drainage purposes shall not exceed four ~~(4)~~ percent, and comfortable speed as well as design speed must be maintained throughout the cross-slope.

Minimum cross-slopes shall maintain a two ~~(2)~~ foot per second velocity for the 2-year peak flow, to reduce potential deposition of material in the roadway.

4.12 Mountainous Terrain

Mountainous terrain is that condition where longitudinal and transverse differentials in ground elevation with respect to the roadway are such that:

1. ~~Excessive benching, side~~Benching, hill-side excavation, or other cuts and fills are needed; or

2. Excessive rights-of-way for either cut and fill slopes (multiple cuts and/or fills exceeding ~~fifteen (~~15~~)~~ feet of vertical change) or for roadway alignment are required~~,~~; or~~;~~

3. Significantly lengthened roadway sections and increases in right-of-way are necessary in order to obtain acceptable horizontal and vertical alignment~~. In any case, roadways to be constructed across terrain~~; or

4. Terrain with an average cross slope of ~~fifteen (~~15~~)~~ percent (as defined within the Town of Marana's Land Development Code) or greater ~~shall qualify for~~are present.

Roadways above the alluvial fan break of the Tortolita Fan are an example of the mountainous terrain classification.

For private local streets subject to this section, a ~~twenty (20) mph~~ design speed lower than 25 mph may be used, provided emergency services and school vehicles can safely traverse the roadway(s).

With prior written approval by the Town Engineer, the design engineer may utilize four ~~(4)~~ foot shoulder widths and steeper longitudinal slopes (private streets only). Roadside drainage provisions shall be incorporated to minimize cross-flows and material deposition within the travel way. Particular attention shall be given to stopping sight distance and sight visibility ~~is to be incorporated into~~during the roadway and grading design. Positive gradient slopes (those rising above the roadway) shall not be permitted within sight visibility triangles~~,~~ unless they conform to Chapter 4.8.

4.13 Environmentally Sensitive Roadways [RESERVED]

~~Section~~ 4.14 ~~Subdivision~~Alternative Access

~~Subdivision access is important in design as it allows for efficient routes of ingress/egress for emergency response vehicles as well as providing for less congested access and shorter trip lengths.~~

1. ~~1.~~ Alternative Access requirements
   a. ~~a.~~ Subdivisions of more than ~~thirty (~~30~~)~~ and not more than ~~eighty (~~80~~)~~ lots shall in addition to the primary access have either an emergency access drive with a stabilized surface capable of supporting fire apparatus or another permanent roadway.
      i. ~~i.~~ Portions of a subdivision (such as cul -de -sacs and other no-outlet areas) must also meet this requirement.
      ii. ~~ii.~~ In areas where it is determined by the Town Engineer that the provision of a secondary access is not practicable based on topography or other access constraints, the Town Engineer, in conjunction with the Fire Marshall may allow a single point of access ~~which may include~~provided that other mitigating requirements such as intermittent turn-around areas, fire sprinkler protection systems and/or other similar measures.
   b. ~~b.~~ Subdivisions of more than ~~eighty (~~80~~)~~ lots shall have a minimum of two ~~(2)~~ permanent roadway accesses.
      i. ~~i.~~ In areas where it is determined by the Town Engineer that the provision of a secondary permanent roadway access is not practicable, the Town Engineer may allow a single permanent roadway access ~~which may include~~provided

that other mitigating requirements such as secondary emergency access, intermittent turn-around areas, fire sprinkler protection systems, and/or other similar measures.

c. ~~c.~~ Phased subdivisions that will ultimately have a secondary compliant access must comply with one of the following requirements:

i. ~~i.~~ At ~~closeout~~close-out of subdivision permitting and final release of assurances, a subsequent phase must already be under permit; or

ii. ~~ii.~~ At ~~closeout~~close-out of subdivision permitting and release of final assurances, a temporary roadway capable of supporting fire apparatus must be in place.

2. Entry roadway width requirements:

a. ~~a.~~ Entry roadways with medians are required to have a minimum inside curb-to-curb entry width of ~~twenty~~ 20 feet.

b. ~~b.~~ Gated entry roadways are required to have a minimum inside curb-to-curb and/or open gate width of ~~twenty~~ 20 feet . Gates must be accessible to the satisfaction of the Fire Marshall.

3. ~~3.~~ Any deviations from these requirements will require a design exception in accordance with Chapter ~~13~~ 13.

5.0 RIGHT-OF-WAY

1. Local street rights-of-way shall be in conformance with the cross sections provided within the ~~Appendix.~~ Town of Marana's Standard Details. Rights-of-way must be wide enough to encompass all publicly maintained facilities ~~including pavement, curb, signage, sidewalks, bicycle paths, shoulders, clear~~ , clear zones, road~~-~~ side ditches, cut and fill slopes, ~~street lights~~ and access to maintain such facilities.

2. Where not otherwise required by the Land Development Code, easements may be granted in lieu of right-of-way for certain cross section elements that are not to be maintained by the Town of Marana such as utilities, sidewalk/pedestrian/equestrian ways and slopes. Such easements must specifically grant right of entry to the Town of Marana~~.~~ and the public. Such right of entry shall include auxiliary areas as necessary to allow maintenance of facilities ~~within the right-of-way~~ and to enable remedy ~~from~~of hazards to the public ~~so as to assure the public safety~~.

3. Additional rights-of-way may be required by the Town at intersections identified on the Major Routes Plan (as depicted in the Town's General Plan circulation element) or at intersections with ~~other~~ collectors or arterials where it is deemed necessary to provide

sufficient width for turning lanes, traffic interchanges, clear zones, sight visibility, and other design and safety considerations.

4. Should alternative sidewalk locations be approved, or if no sidewalk construction is required, the street(s) shall require a minimum of six ~~(6)~~ feet of right-of-way adjacent to the back of curb on each side of the street for purposes of pedestrian refuge, meters, street furniture, public infrastructure, or other such uses (see Chapter 6.3).

5. When it is determined by the Town that, in the public interest or for the health, welfare or safety of same, ~~vehicular~~ access to or from a development or subdivision at a particular location should be prohibited, a one ~~(1)~~ foot wide no-~~vehicular~~ access easement shall be dedicated to the public. Physical barriers may also be required.

6. Supplemental right-of-way, common area and/or easements may be required at all intersections where standard right-of-way widths are unable to completely enclose sight distance triangles.

7. ~~If~~Where parking is designed to be between the sidewalk/pedestrian way and the garage, it must be designed ~~so as to not block or encroach~~to avoid encroachment onto the sidewalk by providing a minimum distance of 20 feet between sidewalk and garage.

6.0 ELEMENTS IN THE CROSS SECTION

Typical cross sections are shown in the ~~Appendix.~~Town of Marana's Standard Details. Selection of the appropriate cross section is dependent upon the functional classification of the roadway, the ADT ~~of~~on the street, and the adjacent land use density. Additional pavement width may be provided, upon approval or requirement of the Town Engineer.

6.1 Travel Lanes

Specific applications of various lane width requirements are shown in the ~~Appendix.~~Town of Marana's Standard Details. The design engineer shall use these figures as the basis for design considerations.

6.2 Curbing

1. Curbing shall be required on all public streets as shown in the ~~typical cross-sections supplied herein.~~Town of Marana's Standard Details. The purpose of curbing shall be to adequately control drainage within the street, prevent moisture from entering the subgrade, control access to abutting property, separate the roadway from pedestrian areas, delineate the traveled roadway (in lieu of edge striping), control dust, and provide adequate lateral support for the pavement structure.

2. Curbing shall be six ~~(6)~~ inch vertical curb and gutter (~~PC/COT~~PAG standard detail 209 Type ~~1 (G)) or~~1(G)) on collector and arterial roadway sections. Local streets shall use four inch roll type curb and gutter (MAG Detail 220 Type C). ~~Preference shall be given to roll type curb and gutter at all times.~~

3. At local street to local street intersections, the minimum curb radius shall be ~~twenty-five (25)~~ feet to face of curb~~, or the minimum radius which will accommodate the turning movements of the design vehicle without encroachment into opposing lanes, whichever is greater~~. At local street to collector/arterial intersections, the minimum curb radius shall be ~~forty (40)~~ feet. The curb radius of each intersection shall accommodate the design vehicle, and shall provide a turning diagram with the improvement plans showing that the design vehicle will not encroach into opposing lanes (included as part of the review documents or as separate exhibit)

4. ~~Wheelchair~~Americans with Disabilities Act (ADA) compliant ramps shall be provided at all curb returns and shall be in accordance with ~~MAG or PC/COT Standard Details for Public Improvements and in compliance with the latest Federal ADA guidelines, as applicable. ADA detectable~~Town of Marana standard details. Detectable warning surfaces (truncated domes per the Town of Marana standard ~~detail~~details) shall be ~~applied to~~constructed at all ~~wheelchair~~ ramps and at all pedestrian refuge areas ~~on~~at raised islands and medians.

6.3 Sidewalks

Sidewalks are required within all public and private roadways as shown on the Town of Marana's Standard Details

Sidewalks shall be constructed of Portland cement concrete ~~constructed to PC/COT "Standard Specifications and Details for Public Improvements",~~ with a minimum width of five ~~(5)~~ feet~~, ordinarily placed abutting the curb~~. if abutting a curb on local streets and a minimum width of four feet when a curbway is used. Additional sidewalk width ~~shall~~may be required for special pedestrian generators, such as schools, recreation sites, and certain businesses.

1. Sidewalks ~~will~~shall be required along both sides of ~~paved streets with curbs, or along~~local streets where ~~future curb grades and locations are established, in accordance with the crosssections in the Appendix~~the minimum lot size is less than 16,000 square feet in accordance with the cross-sections in the Town of Marana's Standard Details. For subdivisions with a minimum lot size of 16,000 square feet or greater, sidewalk shall be required on at least one side of the roadway.

2. ~~Stabilized granite walking paths may be substituted for sidewalks in subdivisions with lots having a gross density of one residence per acre or less, and lots of a minimum of 12,000 square feet.3.~~ Sidewalks shall run the entire length of the street unless authorized by the Town Engineer.

~~4.~~3. Streets may have sidewalks in an alternative location provided it is designed in a manner and location acceptable to the Town Engineer and the Planning Director.

~~5. The area between the back of curb and the roadside edge of the pedestrian walkway is the curbway.~~ 4. In the event a curbway is used, the minimum width for the curbway is six ~~(6)~~ feet, in accordance with the cross-sections in the Town of Marana's Standard Details.

6.5. A 10' public utility, roadway maintenance, and signage easement shall be granted behind all sidewalks where no curbway is present. At locations where public utility easements are not required (such as side yards), a 5'five foot roadway maintenance and signage easement shall be usedrequired.

7. In very low density developments that do not require sidewalks, a four (4) foot wide walk area must be kept free from vegetation. The walk area shall be graded to provide a cross slope of two (2) percent, and shall be surfaced with stabilized granite.

8.6. In pedestrian areas having curbways, the developer, owner, or private association having a Recorded License Agreement may allow abutting property owners to place peadecorative rock gravel, decomposed granite, orground cover, brick in sand, and/or other similar items in the curbway, medians, and ground slope areas without a permit from the Town of Marana. The property owner shall be responsible for the maintenance and replacement of said items placed within the curbway. Street trees are encouraged and must adhere to AASHTO 's "*Roadside* Development guidelines.*Design Guidelines*". Installation of street trees will require an approved Landscape Plan, and License Agreement, and Design Exception pursuant to Section 13.0. All trees within a curbway must comply with section 6.10.f herein.

9.7. Neighborhood postal box units (NBU's) shall be designed and located in such a manner as to not present a hazard to the motoring public, cyclists, or pedestrians.

10. In cases where the subdivision street system is designed in such a way that access to schools is indirect, pedestrian easements shall be required which will provide direct routes to nearby schools.

6.4 Shoulders

Uncurbed roadways in subdivisions are only permittedallowed for temporary access roads. On Where uncurbed roadways a minimum eight (8) foot graded shoulder shall be provided in accordance with the cross sections in the Appendix. Shoulder width may be reduced to four (4) feet in width in accordance with Chapter 4.12, and as shown in the Appendix. Theare used, the cross-slope of the shoulder shall match that of the travel lane.the roadway cross-section. Where infeasible due to topography and roadside drainage considerations, adjustments to the cross-slope may be made in accordance with AASHTO guidelines upon approval by the Town Engineer. Refer to AASHTO design guidelines for foreslope and backslope in cut areasand fill conditions.

6.5 Roadside Clear Zone

Clear zones shall be provided foron all streets and are toshall be provided in accordance with the requirements stipulated within AASHTO's, "Roadside Design Guide". Sufficient right-of-way or easements shall be granted to the Town for all clear zones.

If it is infeasible to provide this clear- zone, a suitable traffic barrier as defined in Chapter 6.6 and the AASHTO publication "Roadside Design Guide", shall be provided.

6.6 Roadside Vehicle Barriers

Determination of warrants for the installation of roadside vehicle barriers (barriers) shall be in accordance with AASHTO's "Roadside Design Guide. Barriers shall be installed in accordance with current ADOT Standard Specifications and Drawings.

Obstructions may also require barriers to provide for motorist safety. Refer to AASHTO's "A Policy on Geometric Design of Highways and Streets" and "Roadside Design Guide", for definitions of obstructions and applications of barriers.

6.7 Pedestrian Barricade Railing

Barricade railing shall be installed for protection of pedestrians whenever slopes are steeper than three-to-one (3: 1) within three ~~(3)~~ feet of the sidewalk and~~/or~~ the embankment height is three ~~(3)~~ feet or greater. The Town Engineer may determine whether the elevation differences between the sidewalk and nearby terrain warrant pedestrian barricade railing or if other special circumstances may also warrant the installation of barricade railing. Barricade railing shall be required on the sheer/vertical side of all scuppers abutting pedestrian walkway areas where the vertical step is greater than six inches in vertical distance

6.8 Roadside Ditches

Roadside ditches shall not be constructed within the shoulder area. Ditches constructed within the clear~~-~~ zone (outside the shoulder) shall be in accordance with AASHTO's "Roadside Design Guide", and~~"~~ "A Policy on Geometric Design ~~ofHighways~~of Highways and Streets", in addition to applicable Chapters ~~of these standards~~herein.

6.9 Cut and Fill Slopes

All cut and fill slopes shall be constructed in accordance with the Marana Land Development Code Grading Standards and AASHTO, and shall be either revegetated or stabilized as follows:

1. Cut or fill slopes three-to-one (3: 1) (horizontal: vertical) or ~~less~~flatter, shall at a minimum, be revegetated or use other suitable ground cover as determined by the Town Engineer.

2. Cut or fill slopes two-to-one (2:1) or ~~less~~flatter, but steeper than three-to-one (3:1) shall be rock rip-rapped with filter fabric installed beneath the rock per PAG Standard Specifications.

3. Cut or fill slopes steeper than two-to-one (2:1) shall have grouted rip-rap, mechanically stabilized earth retaining measures, concrete, shot-crete, or retaining walls as appropriate.

4. Alternative methods of stabilization may be allowed if certified ~~as stable~~ by a registered geotechnical engineer, subject to approval by the Town Engineer.

5. Terracing may be ~~done~~constructed in accordance with the Marana Land Development Code Grading Standards.

6.10 Landscaping in the Public Right-of-Way

1. Bufferyards where required by the Marana Land Development Code may be allowed in public right(s)-of-way. ~~Contact the Town Engineer prior to project design if this option is desired.~~ The Town Engineer and Planning Director will consider project safety, future expansion of the roadway, drainage concerns, adjoining land uses, and other criteria on a case-by-case basis during the review process. ~~To the extent~~ If a landscape bufferyard is requested within the Town ~~permits this use, in the right-of-way the use will~~right(s)-of-way, the developer and/or design engineer shall obtain approval from the Town Engineer prior to design approval and acceptance. If approved, a landscape bufferyard shall be subject to the following ~~requirements~~conditions:

   a~~)~~. Not more than ~~fifty (~~50~~)~~ percent of the required bufferyard ~~depth~~width may be allowed ~~in~~ the public right(s)-of-way, except along major routes having a designated buffer;

   b~~)~~. The location and size of landscape elements shall be in conformance with standards available from the Town Engineer and ~~and~~ Planning Director and are subject to the Town Engineer's and Planning Director's approval;

   c~~)~~. The installation and maintenance of landscaping in the public right(s)-of-way shall be accomplished by the developer, owner or private association~~,~~ as agreed to in the approved, recorded covenants, conditions and restrictions. Assurances ~~shall be required,~~ and insurance policies, in a form acceptable to the Town, shall be required for all landscaping constructed ~~in~~within the public right(s)-of-way;

   d~~)~~. A perpetual License Agreement shall be required for ~~new~~ landscaping~~, irrigation, raised planters, fencing, walls, signs, art, and monuments~~ items within the public right(s)-of-way ~~shall be required. This Agreement shall be recorded with the Pima County Recorder's Office; and~~

   e~~)~~. Turf landscaping shall not be permitted within the right-of-way, nor shall it be permitted to drain onto pedestrian ways or pavement~~.~~; and

   f. All trees installed within six feet of the edge of a street shoulder or curb shall be planted with a root barrier/well extending a minimum of three feet below the top of grade as shown in the Town of Marana standard details.

   g. Irrigation lines larger than ¾" diameter shall be placed as far as practicable from the street shoulder or curb. When placed within a curbway, irrigation lines are to be placed close to the sidewalk. When placed within a median, irrigation lines are to be placed in the center of the median.

7.0 SUPPLEMENTAL ELEMENTS

7.1 Turning Lanes

Pavement widening for turning movements onto arterial and collector streets may be required by the Town Engineer. Turning lanes shall be a minimum of twelve feet in width~~.~~, but may be wider as required by the Town Engineer. Pavement tapers required for any ~~of the above~~roadway improvements, herein, shall be designed in conformance with Pima County's "*Roadway Design Manual*", and as determined ~~within the approved Traffic Impact Analysis~~by the Town Engineer.

8.0 UTILITIES

The main lines of electric, gas, water, telephone and communications, sanitary sewer, and drainage facilities shall be located as shown in the ~~Appendix.~~Town of Marana Standard Details. Alternate locations may be used with the written permission of the affected utility and the Town Engineer. Utility companies franchised to operate in Town of Marana right(s)-of-way for electric, telephone, and communications may be permitted under the terms of adopted franchise agreements. Utility easements are required~~,~~ where applicable~~,~~ and shall allow for public access.

With the exception of minor service extensions to individual parcels, all longitudinal utility facilities between service points to individual parcels shall be located within street right-of-way. Strip easements may be ~~used~~provided along streets in lieu of right-of-way ~~if~~ for utility purposes, and for other uses compatible with utility needs (subject to utility company approval). Access between the street and the private property shall not be denied, unless unsafe conditions will occur.

All sanitary sewer facilities shall be provided in accordance with the current Pima County ~~Department of Wastewater Management "Manual of Engineering Standards and Procedures".~~ Regional Wastewater Reclamation Department's (RWRD) or Marana design standards, specifications, and details.

All services shall be provided or stubbed out into existing or planned parcels with all new street construction to avoid the need to remove and replace new pavement within the five ~~(5)~~ year pavement cut moratorium~~.~~ (Per Town Code 12-7-9). Sewer connection stub-outs are to extend a minimum ~~often (10)~~of ten feet beyond the right(s)-of-way, while other service connection stub-outs are to extend a minimum of ~~two (2)~~five feet beyond the right-of-way.

Service extensions (sewer and water) shall be backfilled and compacted (within the curbway and sidewalk area) to ~~at least ninety-five (95)~~a minimum of 95 percent of the maximum density at optimum moisture~~.~~ (per Arizona Modified Test Method 225a). All utilities are to be installed in accordance with applicable utility company standards, or the ~~PC/COT~~Pima Association of Governments's "Standard Specifications and details for Public Improvements", whichever is more restrictive. All utilities installed beneath the pavement~~,~~ or curb and gutter shall be backfilled and compacted to ~~ninety-five (95)~~a minimum of 95 percent of the maximum density at optimum

moisture in accordance with the approved Grading and Paving Plans and Arizona Modified Test Method 225a.

9.0 DRAINAGE

9.1 Street Drainage

Street drainage ~~should~~shall not exceed ~~fifty (~~50~~)~~ cubic feet per second (cfs) from the base flood without authorization by the Town Engineer and in no case shall street flows exceed ~~one hundred (~~100~~)~~ cfs at the confluence point exiting the roadway. The runoff from a ~~ten (~~10~~)~~ -year storm must be contained between the street curbs. The ~~one hundred~~based flood (100~~)~~ -year storm) discharge must be contained within the right(s)-of-way.

Outlet structures for private retention/detention facilities, or other private drainage systems, shall not be permitted to discharge into the public right(s)-of-way~~.~~ without authorization by the Town Engineer. Should the outlet be allowed, outlet protection and energy dissipation will be required as directed.

Offsite drainage flows are not allowed to be accepted into and carried by the street drainage system.

9.2 Storm Drain Design

All catch basins with curb inlets shall have formed concrete gutters. The minimum diameter of a storm drain is 24" for mains and 18" for laterals connecting a single catch basin. ~~Slotted~~

All storm drain pipes and culverts installed in public right(s)-of-way shall be made of reinforced concrete (pipes and/or boxes).

Longitudinal slotted drain is permitted in conjunction with curb and gutter. Transverse installation of slotted drain is ~~forbidden.~~ prohibited.

The energy grade -line of a storm drain shall be below finished grade of the associated roadway gutterline.

9.3 Erosion Control Cut-off Walls

Required erosion control cut-off wall depths shall be designed one ~~(1)~~ foot deeper than the scour depth as determined by the use of the approved local scour equations~~.~~ and as required in the approved Drainage Report. However, in no case shall cut-off walls be less than ~~one (1) foot~~three feet in depth. Sliding and overturning moments ~~may need to~~shall be analyzed for cut-off wall protected dip sections on all-weather access streets. Cut-off walls shall be placed a minimum of four ~~(4)~~ feet out from the upstream roadway edge of pavement line, and to the edge of the shoulder downstream. Cut-off walls shall extend a minimum of five feet beyond each side of the calculated drainage opening and scour limits parallel to the roadway as determined by the approved local

scour equations and the approved drainage report. The pavement shall be widened to the upstream and downstream ~~cutoff~~cut-off walls.

9.4 Curb Openings

Drainage conveyed within the street while being delivered to channels or outlets may be disposed of through depressed curb openings no greater than ten ~~(10)~~ feet in length unless ~~in environmentally sensitive areas, and with the approval of the Development Services Administrator.~~approved by the Town Engineer. These openings shall be fitted with outlet aprons. When ~~storm water~~stormwater runoff is crossing a pedestrian ~~ways~~ way, scuppers shall be used. Should the hydraulic design require greater conveyance than can be provided by such an opening, some other structure must be used~~.~~ as approved by the Town Engineer. Roadway curb openings and drainage inlets shall be fitted with appropriate barricades as necessary, and the pavement-to-inlet grade shall not be less than two ~~(2)~~ percent.

At locations where runoff leaves the roadway, physical means of earth stabilization or pavement protection must not interfere with clear zone requirements, and must be traversable by errant vehicles without risk of damage to those vehicles.

~~10.0 PAVEMENT DESIGN~~10.0 Pavement Design

1. These pavement design standards apply to all local street improvement projects designed as a part of development. Each development that involves street construction shall submit for approval a Pavement Design Report containing the following information for each street: a tabulation of results of soil subgrade tests; projected ~~ADT's, including~~ ADTs (construction traffic; equivalent single axle loads (ESAL) used, ~~including~~and construction traffic); structural numbers (SN); and pavement thickness for each street. ~~A Pavement Design Report may be waived by the Town Engineer for parking lots in private developments.~~ A minimum ~~twenty (~~20~~)~~ -year pavement design life is required. ~~The twenty (20)~~ The 20-year design life is to be computed beginning in the build-out year. The ~~buildout~~build-out year is defined as that year when all homes/buildings are projected to be completed within the proposed development. Estimated construction traffic through build-out must be considered.

2. The following ~~ESAL's~~ESALs, based on the ~~twenty (~~20~~)~~ -year projected ADT, will be accepted for pavement design:

TABLE 5

20-Year ADT	ESAL
<500	40,000
500-1,000	70,000
1,000-1,500	100,000
1,500-2,500	150,000

When the projected ~~twenty (~~20~~)~~ -year ADT exceeds ~~twenty-five hundred (2500),~~2500, or when the engineer desires to calculate his/her own ~~ESAL's~~ESALs, complete calculations,

including a breakdown of the traffic by vehicle type, shall be included in the Pavement Design Report. The ESAL calculations shall be based on the ~~twenty (~~20~~) -~~year design period and the following ESAL factors (originally from City of Tucson pavement active practice guidelines):

TABLE 6

Vehicle Type	Symbol	ESAL Factor
Passenger Car	P	~~.0008~~0.0008
Bus	BUS	~~.6806~~3.8580
Single Truck	LT	~~0.012~~0.0120
Single Truck (Dual rear or 3 axle)	MT	~~.1890~~0.4000
Tractor-Trailer	TS	~~.6560~~1.8690
Truck-Tandem Trailer	TT	~~.8646~~2.1250
Tractor-Tandem Trailer	TST	~~1.2604~~2.9880

~~Please refer~~

Refer to~~:~~ "Materials - Preliminary Engineering and Design Manual", ADOT and, "*Guide for Design of Pavement Structures*", AASHTO for information pertaining to the requirements herein.

3. Subgrade sampling and testing for roadways shall be accomplished in accordance with standard ADOT procedures and the results tabulated in the Pavement Design Report. Soil support values shall be calculated in accordance with ADOT's "*Materials – Preliminary Engineering and Design Manual*" and the selection of a design soil support value shall be fully documented in the Pavement Design Report.

4. Weighted structural numbers shall be calculated using the design soil support value, the appropriate ESAL, and a regional factor of 1.7. The minimum weighted structural number is to be ~~1.30.~~ 1.75. A minimum terminal serviceability index of 2.0 (ADOT) is acceptable for design of local streets.

5. Pavement thicknesses shall be calculated in accordance with the design equations in the ADOT manual. The layer coefficient for asphaltic concrete shall be ~~obtained from the ADOT manual.~~ 0.44. The layer coefficient for aggregate base course ~~is 0.12.~~ shall be 0.11. Minimum thicknesses are to be as follows (or greater as determined by ~~Soils Engineer~~pavement design report):

TABLE 7

~~Traffic~~Roadway ~~ESAL's~~Type	AC	ABC
~~<150,000~~Local	~~2~~3.0"PAG2	~~4~~4.0"
~~≥150,000 and <500,000~~Local Collector	~~2.5~~3.0"PAG2	~~4~~6.0"
~~≥500,000~~Commercial/Industrial Collector	~~3.0~~2.0"PAG2over 4"PAG1	~~6~~6.0"

6. ~~Subbase material~~Sub-base material shall be engineered to the specifications required by Pima County/City of Tucson "*Standard Specifications for Public Improvements"* and/or

the Pima Association of Governments Standard Specifications, and should be of significantly ~~better~~higher quality than native soil. ~~Subbase~~ Sub-base may not be used as part of the pavement section when the subgrade soil has an R-value of ~~thirty (~~30~~)~~ or greater. In addition, when ~~subbase~~sub-base material is used, the thickness of the ~~subbase~~sub-base may not be more than one-and-a half (1.5) times the combined thickness of the asphalt and aggregate base courses. The layer coefficient for material, which meets minimum Town of Marana standards for subbase, is 0.05. ~~If~~better~~ If better~~ quality material is used, a larger layer coefficient may be used in accordance with the ADOT manual.

7. When existing streets are widened, the new pavement section shall either match the existing pavement section or meet minimum thicknesses as required in paragraph 5 above, whichever is greater. Upon completion of a pavement widening, the complete roadway cross section may be required to receive a rubberized stress absorbing membrane chip seal ~~coat or~~, asphaltic -concrete overlay, or a combination of treatments thereof, at the discretion of the Town Engineer, for the entire length of the pavement widening. Appropriate pavement markings and traffic control signage will be required with the seal coat/overlay application.

8. When ~~through~~ streets are designed which may ultimately connect to future developments, pavement design shall accommodate future wheel loads, including construction traffic, to account for use of the roadway as a haul-road.

9. Subsequent to subdivision buildout (but no later than 2 years after paving), the developer shall perform a pavement surface seal of the subdivision streets and any offsite roads improved as a part of the subdivision development. Local streets are to be sealed with a high density mineral bond or approved equal. Roadways that are classified as collectors and above are to be sealed with Tire Rubber Modified Surface Seal or approved equal. At the time of subdivision closeout and acceptance of streets, the developer shall either post an assurance in a form acceptable to the Town or pay an in lieu fee to secure such work.

11.0 TRAFFIC CONTROL SIGNAGE AND PAVEMENT MARKINGS

1. All traffic control signage and pavement markings within new subdivisions shall be posted and installed in accordance with the Manual on Uniform Traffic Control Devices (~~Millennium~~Latest Edition)~~ and~~, Town of Marana standard details and notes, and the latest edition of the Pima County/City of Tucson's "*Pavement Marking Design Manual*" and "*Signing Manual*" (latest editions)~~. A separate~~ as appropriate and as approved by the Town Engineer. A signage and/or striping plan shall be submitted ~~for the Town's review and approval. The plan is to be integral to the project construction documents (1st submittal of the improvement plans)~~as part of any roadway improvement plan.

2. All temporary ends of road shall be posted with post barricades or end of road markers~~, five (5) feet on center, across the pavement projection~~ as approved by the Town Engineer. If grading has occurred in the alignment beyond the end of road, at least two~~ (2)~~ permanent Type 3 barricades as described within ~~the~~FHWA's "*Manual on Uniform Traffic Control Devices*" shall be added to the ~~road end. An advisory~~roadway end, with a minimum of two Type 4 End of Roadway object markers (OM4-1). The object markers shall be mounted on

each Type 3 barricade. A warning sign (W14-1) and a specialty warning sign stating, "Future Roadway Extension" with a minimum size of 24" x 24" shall be installed at the temporary end of roadway.

3. Upon review of traffic operational ~~characteristics~~conditions and within the one ~~(1)~~ year warranty period, the Town Engineer may ~~request~~require additional signage or pavement markings by the developer. Said additions shall be provided at no cost to the Town.

4. All private streets shall be posted "NOT A TOWN MAINTAINED STREET - PRIVATE" where they intersect public streets unless the private streets are part of a gated community.

5. Pavement markings ~~are to be~~shall be extruded or ribbon dispensed thermoplastic ~~and meet~~paint (pressure sensitive tape shall be used for legends and arrows) and meet the Pima Association of Government's "Standard Specifications and details for Public Improvements"~~, PC/COT~~. Seal coated streets with pavement markings are to ~~comply with ADOT standards and~~ have two ~~(2)~~ applications, one of temporary paint, the other of thermoplastic paint.

6. Street name signs shall be diamond grade reflective, shall state the direction of the street, and shall ~~have the primary name at least four (4) inches high. Prefixes, suffixes, and directions may be no less than two (2) inches high. The directional prefix shall be in the upper left comer of the sign~~comply with FHWA's "*Manual on Uniform Traffic Control Devices*" and Town standard details.

12.0 NEIGHBORHOOD TRAFFIC MANAGEMENT

Traffic calming measures consist of traffic control devices and physical elements constructed in the roadway that control access to neighborhoods, change travel patterns or regulate the flow of traffic through a neighborhood. ~~Such measures include speed humps, traffic circles/roundabouts, chokers, diverters and others.~~

The need for traffic calming measures should be considered when addressing the potential for cut-through traffic in a new subdivision. If it appears that the volume of cut-through traffic may be significant, ~~consideration~~The Town should be ~~given~~consulted with prior to ~~using~~designing traffic calming measures on the impacted streets.

The traffic calming measures ~~to be used in the Town are currently under development and will be included in this document at a later date.~~can include speed humps, traffic circles, chicanes, oval medians and other measures as approved by the Town Engineer.

13.0 DESIGN EXCEPTIONS

It is recognized that land is unique, and there may be alternative design solutions to those mandated by these standards that will satisfy AASHTO, Fire Code, and other standards.

In the event an engineer wishes to employ alternative standards, a design exception report may be submitted to the Town to substantiate the proposal. As required, the design exception report must, at a minimum, provide:

- ~~1.~~ The section of these standards from which relief is desired;
- ~~2.~~ The supporting standards for the proposed alternative;
- ~~3.~~ An approval letter from the ~~Northwest Fire District~~local fire district;
- ~~4.~~ Approvals from any affected utilities; and
- ~~5.~~ Other justification, as deemed appropriate by the ~~applicant~~Town.

~~Five (5) copies of the design exception report will be submitted to the Town of Marana Development Coordinator, together with an application and fees (if applicable).~~ The design exception report must be sealed by an engineer registered in the state of Arizona and will be reviewed by the ~~Subdivision~~Town Engineer~~, Planning Director, and others as deemed necessary. A recommendation~~ in consultation with the Planning Director.

The Town Engineer may grant or deny the design exception. If the applicant wishes to appeal the decision of the Town Engineer, the decision will be forwarded to the ~~Planning Commission at its~~ next reasonably available ~~meeting, but no later than two (2) weeks from the date of application~~planning commission meeting. The planning commission will decide whether to uphold or overturn the Town Engineer's denial of the design exception.

14.0 DEFINITIONS AND ACRONYMS

AASHTO: The American Association of State Highway and Transportation Officials.

ADOT: Arizona Department of Transportation

AVERAGE DAILY TRAFFIC (ADT): The ~~total~~volume of traffic ~~for the year divided by 365.~~on a street on a typical weekday.

ALL-WEATHER ~~CROSSING: Any intersection of a street with a drainage pattern where the runoff from a one hundred (100) year flood does not exceed one (1) foot in depth over the roadway.~~ACCESS: Access considered traversable by normal passenger vehicles, defined as a permanent, durable material with adequate protection against scour and erosion and having a depth of water no more than 12 inches above the roadway surface during a Base Flood. Asphalt, Concrete, and traffic rated pavers are considered durable surfaces. All other surfaces must be approved by the Town Engineer. See also the Floodplain and Erosion Hazard Management Code, Chapter 17-15 of the Town Code.

BUILDING SETBACK: The ~~right-angle~~minimum distance from a point on ~~or within street right-of-way~~a property line to the closest point of any building ~~structure~~.

CC & ~~R's~~Rs: An acronym for Covenants, Conditions and Restrictions.

COLLECTOR STREET: A street designed to distribute traffic between local streets and arterial streets. See PCDOT's "Roadway Design Manual" for further discussion.

CROWN: A cross-slope of difference in elevation between the high point of a street and the gutter line, adjacent to the pavement edge, for any given cross section. Crown is normally expressed as a percentage.

CURB CUT: A depressed segment of a vertical roadway curb.

CURB RETURN: A curved segment of a curb used at each end of an opening in the roadway curb.

CURBWAY: The area between the back of curb and the roadway edge of the sidewalk.

DESIGN YEAR: The year during which the roadway improvements shall reach life expectancy with normal maintenance, generally ~~twenty (~~20~~)~~ years.

DEVELOPER: The private party in whose interest engineering documents, plats and plans are submitted for the purposes of review and regulation of private land development in the Town of Marana.

DRIVEWAY: A point of vehicular access between a street and an abutting property.

ENGINEER: The design engineer or engineer of record.

FHWA: U.S. Department of Transportation, Federal Highway Administration

FIRE APPARATUS ACCESS ROAD: Per the International Fire Code (IFC), *a road that provides fire apparatus access from a fire station to a facility, building or portion thereof. This is a general term inclusive of all other terms such as fire lane, public street, private street, parking lot lane and access roadway* Per Appendix D of the IFC, the fire apparatus access road must have *an asphalt, concrete or other approved driving surface capable of supporting the imposed load of fire apparatus weighing at least 75,000 pounds.*. For the purposes of these street standards, all roadways defined by these standards are considered fire apparatus access roads.

FRONTAGE ROAD: A local street or road auxiliary, located on the side of a collector or arterial street, which provides service to abutting property and adjacent areas while controlling access.

FUNCTIONAL CLASSIFICATION: A way of distinguishing between street types by the ~~purpose~~function each serves, such as freeway (limited access), arterial, collector, and local streets.

HOMEOWNERS' ASSOCIATION (HOA): A legal entity established for the purpose of owning and maintaining commonly held private real property.

INTERIM PAVING: Paving placed to designed grades that can be expanded to a permanent improvement at a future time.

INVERT: The difference in elevation between the low point of a street and a chord line connecting the outer edges of pavement or gutter lines.

ITE: Institute of Transportation Engineers

LEVEL OF SERVICE (LOS): A general term describing the operating conditions a driver will experience while traveling on a particular roadway facility. Where roadway conditions are fixed, level of service varies primarily with volume.

LOCAL STREET: A street that primarily serves as access to residences or other abutting properties.

MAJOR ROUTES PLAN: The most recent version of the Plan, as adopted by the Mayor and Council. As of this printing the major routes plan is contained in the Town's General Plan as its circulation element.

MINIMUM: The least quantity or amount allowable for a singular design condition, and may not be an acceptable state in consideration of other aspects of project design.

MUTCD: Federal Highway Administration's "Manual on Uniform Traffic Control Devices"

NO-ACCESS EASEMENT: A strip of land across which vehicular traffic is prohibited, except emergency and utility vehicles. No-access easements, unless specifically overridden by plat conditions, also prohibit access such as driveways, sidewalks, paths, and gates.

OFF-STREET PARKING: Any space provided for vehicular parking not within the street right-of-way.

ON-STREET PARKING: The parking lane adjacent to travel lanes in a traveled roadway.

ONE-WAY STREET: A street that has only one legal direction of travel.

PAG: Pima Association of Governments

PC/COT: Pima County/City of Tucson

PCDOT: Pima County Department of Transportation

TOWN: Town of Marana, a political subdivision of the State of Arizona.

TOWN ENGINEER: ~~The Director, Public Works Department, or his designated subordinate, in accordance with Arizona Revised Statutes.~~ An officer of Town created by the Marana Town Code. The Town Engineer has the powers and duties set forth by state law as well as town ordinance,

resolution, order or directive. Notwithstanding the above, the Town Engineer has charge of the Town streets and public works and performs those duties as may be required by law and any other duties as the Town manager may deem necessary. The Town Engineer may delegate duties to other responsible staff.

15.0 REFERENCES

1. "*A Policy on Geometric Design of Highways and Streets*", American Association of State Highway and Transportation Officials (AASHTO).
2. "*Roadside Design Guide*", AASHTO.
3. "*Manual on Uniform Traffic Control Devices*", United States Department of Transportation, Federal Highways Administration, (FHWA).
4. "*Guide for Design of Pavement Structures*", AASHTO.
5. "*Guidelines for Geometric Design ofVeryof Very Low-Volume Local Roads (ADT::S≤400)*", AASHTO.
6. "*Highway Capacity Manual*", Transportation Research Board, (TRB).
7. "*Trip Generation*", ITEInstitute of Transportation Engineers (ITE).
8. "*Trip Generation Handbook*", ITE.
9. "*Traffic Engineering Manual of Approved Signs*", Arizona Department of Transportation (ADOT).
10. "*Materials-Preliminary Engineering and Design Manual*", ADOT.
11. "*Traffic Impact Analysis for Proposed Developments*", ADOT; or as supercededsuperseded by the Town of Marana.
12. "*Bridge Design and Detailing Manual*", ADOT.
13. "*Construction Standards- = Construction, Bridge, Signing and Marking*", ADOT.
14. "*Construction Standard Drawings*", ADOT.
15. "*Signing and Marking Standard Drawings*", ADOT.
16. "*Pima County Roadway Design Manual*", and applicable references therein, Pima County Department of Transportation & Flood Control District, (PCDOT & FCD).
17. "*Standard Specifications for Public Improvements*", Pima County/City of Tucson, (PC/COT).
18. "*Standard Details for Public Improvements*", PC/COT.
19. "*Pavement Marking Design Manual*", PC/COT.
20. "*Traffic Signing Manual*", PC/DOT.
21. "*Drainage and Channel Design Standards for Local Drainage for Floodplain Management within Pima County, Arizona*", PCDOT & FCD.
22. "*Stormdrain Design Guidelines and Standard Plans*", Pima County Department of Transportation (PCDOT & FCD) & Pima County Flood Control District (FCD).
23. "*Manual of Engineering Standards and Procedures*", Pima County Wastewater Management Department (PCWMD).
24. "*Standard Specifications and Details*", City of Tucson Water Department, (COTWD).
25. The "*Procedures for Preparation of: Transportation Impact Studies",* Town of Marana Traffic Impact Analysis Process Manual.
26. The Town of Marana Neighborhood Traffic Management Program Manual (proposed).

27. Marana Standard Details
28. Pima Association of Government's "Standard Specifications and Details for Public Improvements"

All references refer to the latest edition unless otherwise noted

Document comparison by Workshare Compare on Thursday, June 16, 2016 10:55:07 AM

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Rendering set	Standard

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Insertion	
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Moved cell	
Split/Merged cell	
Padding cell	

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Moved to	7
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Format changed	0
Total changes	1023

Council-Regular Meeting **A5**

Meeting Date: 06/21/2016

To: Mayor and Council

From: John Kmiec, Utilities Director

Date: June 21, 2016

Strategic Plan Focus Area:
Community

Subject: Resolution No. 2016-068: Relating to Utilities; adopting the Marana Water Reclamation Facility Master Plan (John Kmiec)

Discussion:

Marana Town Code section 14-2-1 provides for Council adoption of comprehensive utility system master plans. During 2015 and 2016, the Marana Water Department contracted the services of Carollo Engineering to help develop a comprehensive Master Plan for the Marana Water Reclamation Facility at Luckett Road. The preliminary results of the Master plan identified that a new treatment approach to increase capacity for future growth was necessary.

In March 2016, staff presented the initial findings of the master plan process to council. On March 8, 2016, the water director presented to council the results and the identified four potential directions that Town may go to increase the capacity of the treatment facility. The recommended approach was to increase capacity from 500,000 gallons per day to 1.5 million gallons per day. This would be done with a more efficient process of conventional activated sludge treatment. Two 750,000 gallon per day treatment trains would be constructed for the biological treatment of the waste. In addition to the treatment process, a sludge dewatering facility would also be part of the next phase of expansion. The sludge dewatering process will allow the water reclamation facility to create a solid product that can be landfilled locally, thus significantly reducing the overall facility's operational costs.

Staff will provide the completed final Marana Water Reclamation Facility Master Plan to council for adoption. Staff will continue to move forward with design services and the construction manager at risk (CMAR) procurement process. Final design and construction of the new facility is expected to take two years.

Staff Recommendation:

Staff recommends adoption of Resolution 2016-068, adopting the 2016 Marana Water Reclamation Facility Master Plan.

Suggested Motion:

I move to adopt Resolution 2016-068; adopting the Marana Water Reclamation Facility Master Plan; and directing staff to continue with design and construction services necessary to complete the phased expansion of the Marana Water Reclamation Facility.

Attachments

Resolution No. 2016-068

MARANA RESOLUTION NO. 2016-068

RELATING TO UTILITIES; ADOPTING THE MARANA WATER RECLAMATION FACILITY MASTER PLAN

WHEREAS Marana Town Code section 14-2-1 provides for Council adoption of comprehensive utility system master plans; and

WHEREAS the Marana Water Department has contracted the services of Carollo Engineering to help develop a comprehensive Master Plan for the Marana Water Reclamation Facility at Luckett Road; and

WHEREAS the preliminary results of the Master Plan identified the need for a new treatment approach to increase capacity for future growth; and

WHEREAS Town staff presented the initial findings of the master plan process to the Council in March 2016, identified four potential directions to increase the capacity of the treatment facility, and recommended increasing capacity of the treatment facility from 500,000 gallons per day to 1.5 million gallons per day; and

WHEREAS the completed final Marana Water Reclamation Facility Master Plan was presented to Council at tonight's meeting for consideration and adoption; and

WHEREAS the Mayor and Council of the Town of Marana find that this resolution is in the best interests of the Town of Marana and its citizens.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND COUNCIL OF THE TOWN OF MARANA, as follows:

SECTION 1. The Marana Water Reclamation Facility Master Plan presented today is hereby adopted.

SECTION 2. The Town Clerk shall retain an official copy of the Marana Water Reclamation Facility Master Plan as a permanent record of the Town.

SECTION 3. The Town's Manager and staff are hereby authorized and directed to continue with design and construction services necessary to complete the phased expansion of the Marana Water Reclamation Facility in accordance with the adopted Marana Water Reclamation Facility Master Plan.

PASSED AND ADOPTED by the Mayor and Council of the Town of Marana, Arizona, this 21st day of June, 2016.

Mayor Ed Honea

ATTEST:

Jocelyn C. Bronson, Town Clerk

APPROVED AS TO FORM:

Frank Cassidy, Town Attorney

Council-Regular Meeting **A6**

Meeting Date: 06/21/2016

To: Mayor and Council

From: Erik Montague, Finance Director

Date: June 21, 2016

Strategic Plan Focus Area:
Community

Subject: PUBLIC HEARING: Resolution No. GFCFD 2016-02: [Marana Town Council acting as the Gladden Farms Community Facilities District Board of Directors]: A Resolution of the District Board of the Gladden Farms Community Facilities District, Pima County, Arizona, approving the final budget for the Gladden Farms Community Facilities District for the fiscal year beginning July 1, 2016 and ending June 30, 2017 (Erik Montague)

Discussion:

On May 17, 2016 the Board of Directors adopted a tentative budget for Gladden Farms Community Facilities District (GFCFD). The tentative and final budget include an ad valorem tax levy of $2.80 per one hundred ($100) of assessed valuation.

After conducting a public hearing, the District Board is being asked to adopt Resolution GFCFD 2016-02, adopting the final budget and establishing an ad valorem tax levy of $2.80 per one hundred ($100) of assessed valuation for fiscal year 2016-2017.

Financial Impact:

Fiscal Year:	2017
Budgeted Y/N:	Y
Amount:	$2,248,144

Establishment of the final budget for fiscal year 2016-2017.

Staff Recommendation:

Staff recommends adoption of Resolution GFCFD 2016-02, adopting the final budget for fiscal year 2016-2017.

Suggested Motion:

I move to adopt Resolution GFCFD 2016-02, adopting the final budget for the Gladden Farms Community Facilities District for fiscal year 2016-2017.

Attachments

Gladden Farms CFD Final Budget Resolution

Gladden Farms CFD 2016-2017 Final Budget

Gladden Farms CFD Published Notice

RESOLUTION NO. GFCFD 2016-02

A RESOLUTION OF THE DISTRICT BOARD OF THE GLADDEN FARMS COMMUNITY FACILITIES DISTRICT, PIMA COUNTY, ARIZONA, APPROVING THE FINAL BUDGET BY THE GLADDEN FARMS COMMUNITY FACILITIES DISTRICT BOARD FOR THE FISCAL YEAR BEGINNING JULY 1, 2016 AND ENDING JUNE 30, 2017.

WHEREAS, in accordance with Title 48, Section 716, Arizona Revised Statutes, and following public notice, the Board met on May 17, 2016 at which meeting any taxpayer in the District was privileged to appear and be heard in favor of or against any of the proposed expenditures or tax levies; and

WHEREAS, it appears that publication has been duly made, as required by law, of said proposed budget together with a notice that the District Board would meet on June 21, 2016, at or after 7:00 P.M., in the council chambers of the Town of Marana Civic Center, 11555 W. Civic Center Drive, Marana, Arizona, for the purpose of making tax levies as set forth in said estimates; and

NOW THEREFORE, BE IT RESOLVED that the Gladden Farms Community Facilities District budget in the amount of $2,248,144 is hereby adopted as the budget of the Gladden Farms Community Facilities District, Pima County, Arizona for the fiscal year 2016-2017.

PASSED AND ADOPTED by the District Board of Gladden Farms Community Facilities District, Pima County, Arizona, this 21st day of June, 2016.

_____
Ed Honea, District Chairman

ATTEST:

_____
Jocelyn C. Bronson, District Clerk

APPROVED AS TO FORM:

_____
Frank Cassidy, District Counsel

Attachment: Statements & Schedules

GLADDEN FARMS COMMUNITY FACILITIES DISTRICT (GFCFD)
FINAL BUDGET AND SUMMARY SCHEDULE
OF ESTIMATED REVENUES AND EXPENDITURES
FISCAL YEAR 2016-17

REVENUES	FY 2016 Adopted Budget	FY 2016 Amended Budget	FY 2016 Estimated Acutal	FY 2017 Budget
Property Tax - General (Operating)	$ 51,152	$ 51,152	$ 47,184	$ 54,272
Property Tax- Secondary (Debt Service)	426,267	426,267	417,742	452,269
Developer Contributions	275,005	275,005	297,530	264,603
Total Revenues	752,424	752,424	762,456	771,144
EXPENDITURES				
CFD Administration	5,000	5,000	3,750	5,000
Costs of Issuance	100,000	100,000	-	100,000
Accounting/Auditing	2,500	2,500	1,150	2,500
Public Notification Expenses	1,000	1,000	52	1,000
Consultant Services	15,000	15,000	4,000	15,000
Outside Legal Counsel	5,000	5,000	-	5,000
Debt Service	695,272	695,272	695,272	696,872
Trustee Fees	6,000	6,000	20,000	20,000
Capital Improvements Acquisition	900,000	900,000	-	900,000
Maintenance and Operation	149,652	149,652	-	452,772
Replacement Reserve	50,000	50,000	-	50,000
Total Expenditures	1,929,424	1,929,424	724,224	2,248,144
Excess (Deficiency) of Revenues Over (Under) Expenditures	(1,177,000)	(1,177,000)	38,232	(1,477,000)
Other Financing Sources (Uses)				
Bond Proceeds	1,000,000	1,000,000	-	1,000,000
Total Other Financing Sources	1,000,000	1,000,000	-	1,000,000
Excess (Deficiency) of Revenues and Other Financing Sources Over (Under) Expenditures and Other Financing Uses	(177,000)	(177,000)	38,232	(477,000)
BEGINNING FUND BALANCE	1,328,032	1,328,032	1,328,032	644,350

GLADDEN FARMS COMMUNITY FACILITIES DISTRICT (GFCFD)
FINAL BUDGET AND SUMMARY SCHEDULE
OF ESTIMATED REVENUES AND EXPENDITURES
FISCAL YEAR 2016-17

ENDING FUND BALANCE	$ 1,151,032	$ 1,151,032	$ 1,366,264	$ 167,350

GLADDEN FARMS COMMUNITY FACILITIES DISTRICT
NOTICE OF FILING STATEMENTS AND ESTIMATES
AND
NOTICE OF PUBLIC HEARING

NOTICE OF FILING STATEMENTS AND ESTIMATES OF THE OPERATION AND MAINTENANCE EXPENSES OF THE GLADDEN FARMS COMMUNITY FACILITIES DISTRICT, THE COSTS OF CAPITAL IMPROVEMENTS TO BE FINANCED BY THE AD VALOREM TAX LEVY, AND THE AMOUNT OF ALL OTHER EXPENDITURES FOR PUBLIC INFRASTRUCTURE AND ENHANCED MUNICIPAL SERVICES PROPOSED TO BE PAID FROM THE TAX LEVY AND OF THE AMOUNT TO BE RAISED TO PAY GENERAL OBLIGATION BONDS OF THE DISTRICT; AND NOTICE OF A PUBLIC HEARING ON THE PROPOSED FISCAL YEAR 2016-2017 BUDGET OF THE DISTRICT, INCLUDING A HEARING ON THOSE PORTIONS OF THE STATEMENTS AND ESTIMATES NOT RELATING TO DEBT SERVICE ON GENERAL OBLIGATION BONDS.

Notice is hereby given that statements and estimates have been filed in the Office of the District Clerk of the Gladden Farms Community Facilities District of the operation and maintenance expenses of the District, the costs of capital improvements to be financed by the voter-approved ad valorem tax levy, and the amount of all other expenditures for public infrastructure and enhanced municipal services proposed to be paid from the tax levy and of the amount to be raised to pay general obligation bonds of the District, all of which shall be provided for by the levy and collection of ad valorem taxes on the assessed value of all the real and personal property in the District. Notice is further given of a public hearing on the proposed Fiscal Year 2016-2017 budget of the District, including (but not limited to) a hearing on those portions of the statements and estimates not relating to debt service on general obligation bonds, all pursuant to Arizona Revised Statutes §§48-716 and 48-723. Such hearing will be held by the District Board on Tuesday, June 21, 2016, at or after 7:00 p.m. in the council chambers of the Town of Marana Civic Center, 11555 W. Civic Center Drive, Marana, Arizona. Copies of the budget are available from the Office of the District Treasurer, 11555 W. Civic Center Drive, Town of Marana, Arizona 85653, telephone number: (520) 382-1900.

Dated this 1st day of June, 2016

/s/ Gilbert Davidson
……..
District Manager
Gladden Farms Community Facilities District

Published: June 1st, 2016

Council-Regular Meeting **A7**

Meeting Date: 06/21/2016

To: Mayor and Council

From: Erik Montague, Finance Director

Date: June 21, 2016

Strategic Plan Focus Area:
Community

Subject: PUBLIC HEARING: Resolution No. GFCFD2 2016-02: [Marana Town Council acting as the Gladden Farms (Phase II) Community Facilities District Board of Directors]: A Resolution of the District Board of the Gladden Farms (Phase II) Community Facilities District, Pima County, Arizona, approving the final budget for the Gladden Farms (Phase II) Community Facilities District for the fiscal year beginning July 1, 2016 and ending June 30, 2017 (Erik Montague)

Discussion:

On May 17, 2016 the District Board adopted a tentative budget for Gladden Farms (Phase II) Community Facilities District (GFCFD2).

The final budget will include an ad valorem tax levy of $0.30 per one hundred ($100) of assessed valuation for operations and maintenance costs of the district for fiscal year 2016-2017. After conducting a public hearing, the District Board is being asked to adopt Resolution GFCFD2 2016-02, adopting the final budget.

Financial Impact:

Fiscal Year:	2017
Budgeted Y/N:	Y
Amount:	$213

Establishment of the final budget for fiscal year 2016-2017.

Staff Recommendation:

Staff recommends adoption of Resolution GFCFD2 2016-02, adopting the final budget for fiscal year 2016-2017.

Suggested Motion:

I move to adopt Resolution GFCFD2 2016-02, adopting the final budget for the Gladden Farms (Phase II) Community Facilities District for fiscal year 2016-2017.

Attachments

Gladden Farms CFD (Phase II) Final Budget Resolution

Gladden Farms CFD (Phase II) 2016-2017 Final Budget

Gladden Farms CFD (Phase II) Published Notice

RESOLUTION NO. GFCFD2 2016-02

A RESOLUTION OF THE DISTRICT BOARD OF THE GLADDEN FARMS (PHASE II) COMMUNITY FACILITIES DISTRICT, PIMA COUNTY, ARIZONA, APPROVING THE FINAL BUDGET BY THE GLADDEN FARMS (PHASE II) COMMUNITY FACILITIES DISTRICT BOARD FOR THE FISCAL YEAR BEGINNING JULY 1, 2016 AND ENDING JUNE 30, 2017.

WHEREAS, in accordance with Title 48, Section 716, Arizona Revised Statutes, and following public notice, the Board met on May 17, 2016 at which meeting any taxpayer in the District was privileged to appear and be heard in favor of or against any of the proposed expenditures or tax levies; and

WHEREAS, it appears that publication has been duly made, as required by law, of said proposed budget together with a notice that the District Board would meet on June 21, 2016, at or after 7:00 P.M., in the council chambers of the Town of Marana Civic Center, 11555 W. Civic Center Drive, Marana, Arizona, for the purpose of making tax levies as set forth in said estimates; and

NOW THEREFORE, BE IT RESOLVED that the Gladden Farms (Phase II) Community Facilities District budget in the amount of $213 is hereby adopted as the budget of the Gladden Farms Community Facilities District, Pima County, Arizona for the fiscal year 2016-2017.

PASSED AND ADOPTED by the District Board of Gladden Farms Community Facilities District, Pima County, Arizona, this 21st day of June, 2016.

_____
Ed Honea, District Chairman

ATTEST:

_____
Jocelyn C. Bronson, District Clerk

APPROVED AS TO FORM:

_____
Frank Cassidy, District Counsel

Attachment: Statements & Schedules

GLADDEN FARMS (Phase II) COMMUNITY FACILITIES DISTRICT (GFCFD2)
FINAL BUDGET AND SUMMARY SCHEDULE
OF ESTIMATED REVENUES AND EXPENDITURES
FISCAL YEAR 2016-17

REVENUES	FY 2016 Adopted Budget	FY 2016 Amended Budget	FY 2016 Estimated Acutal	FY 2017 Budget
Property Tax - General (Operating)	$ 183	$ 183	$ 179	$ 172
Property Tax- Secondary (Debt Service)	-	-	-	-
Developer Contributions	-	-	-	-
Total Revenues	183	183	179	172
EXPENDITURES				
CFD Administration	100	100	50	100
Costs of Issuance	-	-	-	-
Accounting/Auditing	-	-	-	-
Public Notification Expenses	52	52	50	52
Consultant Services	-	-	-	-
Outside Legal Counsel	-	-	-	-
Debt Service	-	-	-	-
Trustee Fees	-	-	-	-
Capital Improvements Acquisition	-	-	-	-
Maintenance and Operation	61	61	-	61
Replacement Reserve	-	-	-	-
Total Expenditures	213	213	100	213
Excess (Deficiency) of Revenues Over (Under) Expenditures	(30)	(30)	79	(41)
Other Financing Sources (Uses)				
Bond Proceeds	-	-	-	-
Total Other Financing Sources	-	-	-	-
Excess (Deficiency) of Revenues and Other Financing Sources Over (Under) Expenditures and Other Financing Uses	(30)	(30)	79	(41)
BEGINNING FUND BALANCE	25,027	25,027	25,000	25,079
ENDING FUND BALANCE	$ 24,997	$ 24,997	$ 25,079	$ 25,038

GLADDEN FARMS (PHASE II) COMMUNITY FACILITIES DISTRICT
NOTICE OF FILING STATEMENTS AND ESTIMATES
AND
NOTICE OF PUBLIC HEARING

NOTICE OF FILING STATEMENTS AND ESTIMATES OF THE OPERATION AND MAINTENANCE EXPENSES OF GLADDEN FARMS (PHASE II) COMMUNITY FACILITIES DISTRICT, THE COSTS OF CAPITAL IMPROVEMENTS TO BE FINANCED BY THE AD VALOREM TAX LEVY, AND THE AMOUNT OF ALL OTHER EXPENDITURES FOR PUBLIC INFRASTRUCTURE AND ENHANCED MUNICIPAL SERVICES PROPOSED TO BE PAID FROM THE TAX LEVY AND OF THE AMOUNT TO BE RAISED TO PAY GENERAL OBLIGATION BONDS OF THE DISTRICT; AND NOTICE OF A PUBLIC HEARING ON THE PROPOSED FISCAL YEAR 2016-2017 BUDGET OF THE DISTRICT, INCLUDING A HEARING ON THOSE PORTIONS OF THE STATEMENTS AND ESTIMATES NOT RELATING TO DEBT SERVICE ON GENERAL OBLIGATION BONDS.

Notice is hereby given that statements and estimates have been filed in the Office of the District Clerk of Gladden Farms (Phase II) Community Facilities District of the operation and maintenance expenses of the District, the costs of capital improvements to be financed by the voter-approved ad valorem tax levy, and the amount of all other expenditures for public infrastructure and enhanced municipal services proposed to be paid from the tax levy and of the amount to be raised to pay general obligation bonds of the District, all of which shall be provided for by the levy and collection of ad valorem taxes on the assessed value of all the real and personal property in the District. Notice is further given of a public hearing on the proposed Fiscal Year 2016-2017 budget of the District, including (but not limited to) a hearing on those portions of the statements and estimates not relating to debt service on general obligation bonds, all pursuant to Arizona Revised Statutes §§48-716 and 48-723. Such hearing will be held by the District Board on Tuesday, June 21, 2016, at or after 7:00 p.m. in the council chambers of the Town of Marana Civic Center, 11555 W. Civic Center Drive, Marana, Arizona. Copies of the budget are available from the Office of the District Treasurer, 11555 W. Civic Center Drive, Town of Marana, Arizona 85653, telephone number: (520) 382-1900.

Dated this 1st day of June, 2016

/s/ Gilbert Davidson
……..
District Manager
Gladden Farms (Phase II) Community Facilities District

Published: June 8th, 2016

Council-Regular Meeting **A8**

Meeting Date: 06/21/2016

To: Mayor and Council

From: Erik Montague, Finance Director

Date: June 21, 2016

Strategic Plan Focus Area:
Community

Subject: PUBLIC HEARING: Resolution No. SSCFD 2016-02: [Marana Town Council acting as the Saguaro Springs Community Facilities District Board of Directors]: A Resolution of the District Board of the Saguaro Springs Community Facilities District, Pima County, Arizona, approving the final budget for the Saguaro Springs Community Facilities District for the fiscal year beginning July 1, 2016 and ending June 30, 2017 (Erik Montague)

Discussion:

On May 17, 2016 the Board of Directors adopted a tentative budget for Saguaro Springs Community Facilities District (SSCFD). The tentative and final budget include an ad valorem tax levy of $0.30 per one hundred ($100) of assessed valuation.

After conducting a public hearing, the District Board is being asked to adopt Resolution SSCFD 2016-02, adopting the final budget and establishing an ad valorem tax levy of $0.30 per one hundred ($100) of assessed valuation for FY 2016-2017 for operations and maintenance.

Financial Impact:

Fiscal Year:	2017
Budgeted Y/N:	Y
Amount:	$4,892,000

Establishment of the final budget for fiscal year 2016-2017.

Staff Recommendation:

Staff recommends adoption of Resolution SSCFD 2016-02, adopting the final budget for fiscal year 2016-2017.

Suggested Motion:

I move to adopt Resolution SSCFD 2016-02, adopting the final budget for the Saguaro Springs Community Facilities District for fiscal year 2016-2017.

Attachments

Saguaro Springs CFD Final Budget Resolution

Saguaro Springs CFD 2016-2017 Final Budget

Saguaro Springs CFD Published Notice

RESOLUTION NO. SSCFD 2016-02

A RESOLUTION OF THE DISTRICT BOARD OF THE SAGUARO SPRINGS COMMUNITY FACILITIES DISTRICT, PIMA COUNTY, ARIZONA, APPROVING THE FINAL BUDGET BY THE SAGUARO SPRINGS COMMUNITY FACILITIES DISTRICT BOARD FOR THE FISCAL YEAR BEGINNING JULY 1, 2016 AND ENDING JUNE 30, 2017.

WHEREAS, in accordance with Title 48, Section 716, Arizona Revised Statutes, and following public notice, the Board met on May 17, 2016 at which meeting any taxpayer in the District was privileged to appear and be heard in favor of or against any of the proposed expenditures or tax levies; and

WHEREAS, it appears that publication has been duly made, as required by law, of said proposed budget together with a notice that the District Board would meet on June 21, 2016, at or after 7:00 P.M., in the council chambers of the Town of Marana Civic Center, 11555 W. Civic Center Drive, Marana, Arizona, for the purpose of making tax levies as set forth in said estimates; and

NOW THEREFORE, BE IT RESOLVED that the Saguaro Springs Community Facilities District budget in the amount of $4,892,000 is hereby adopted as the budget of the Saguaro Springs Community Facilities District, Pima County, Arizona for the fiscal year 2016-2017.

PASSED AND ADOPTED by the District Board of Saguaro Springs Community Facilities District, Pima County, Arizona, this 21st day of June, 2016.

_____
Ed Honea, District Chairman

ATTEST:

_____
Jocelyn C. Bronson, District Clerk

APPROVED AS TO FORM:

_____
Frank Cassidy, District Counsel

Attachment: Statements & Schedules

SAGUARO SPRINGS COMMUNITY FACILITIES DISTRICT (SSCFD)
FINAL BUDGET AND SUMMARY SCHEDULE OF ESTIMATED REVENUES AND EXPENDITURES
FISCAL YEAR 2016-17

REVENUES	FY 2016 Adopted Budget	FY 2016 Amended Budget	FY 2016 Estimated Acutal	FY 2017 Budget
Property Tax - General (Operating)	$ 7,914	$ 7,914	$ 7,677	$ 12,150
Property Tax- Secondary (Debt Service)	65,951	65,951	-	-
Developer Contributions	318,135	318,135	-	384,086
Total Revenues	392,000	392,000	7,677	396,236
EXPENDITURES				
CFD Administration	10,000	10,000	1,250	10,000
Costs of Issuance	450,000	450,000	-	450,000
Accounting/Auditing	2,500	2,500	150	2,500
Public Notification Expenses	2,000	2,000	52	2,000
Consultant Services	15,000	15,000	-	15,000
Outside Legal Counsel	10,000	10,000	-	10,000
Debt Service	250,000	250,000	-	250,000
Trustee Fees	2,500	2,500	-	2,500
Capital Improvements Acquisition	4,000,000	4,000,000	-	4,000,000
Maintenance and Operation	50,000	50,000	-	50,000
Replacement Reserve	100,000	100,000	-	100,000
Total Expenditures	4,892,000	4,892,000	1,452	4,892,000
Excess (Deficiency) of Revenues Over (Under) Expenditures	(4,500,000)	(4,500,000)	6,225	(4,495,764)
Other Financing Sources (Uses)				
Bond Proceeds	4,500,000	4,500,000	-	4,500,000
Total Other Financing Sources	4,500,000	4,500,000	-	4,500,000
Excess (Deficiency) of Revenues and Other Financing Sources Over (Under) Expenditures and Other Financing Uses	-	-	6,225	4,236
BEGINNING FUND BALANCE	30,260	30,260	63,076	69,301
ENDING FUND BALANCE	$ 30,260	$ 30,260	$ 69,301	$ 73,537

SAGUARO SPRINGS COMMUNITY FACILITIES DISTRICT
NOTICE OF FILING STATEMENTS AND ESTIMATES
AND
NOTICE OF PUBLIC HEARING

NOTICE OF FILING STATEMENTS AND ESTIMATES OF THE OPERATION AND MAINTENANCE EXPENSES OF SAGUARO SPRINGS COMMUNITY FACILITIES DISTRICT, THE COSTS OF CAPITAL IMPROVEMENTS TO BE FINANCED BY THE AD VALOREM TAX LEVY, AND THE AMOUNT OF ALL OTHER EXPENDITURES FOR PUBLIC INFRASTRUCTURE AND ENHANCED MUNICIPAL SERVICES PROPOSED TO BE PAID FROM THE TAX LEVY AND OF THE AMOUNT TO BE RAISED TO PAY GENERAL OBLIGATION BONDS OF THE DISTRICT; AND NOTICE OF A PUBLIC HEARING ON THE PROPOSED FISCAL YEAR 2016-2017 BUDGET OF THE DISTRICT, INCLUDING A HEARING ON THOSE PORTIONS OF THE STATEMENTS AND ESTIMATES NOT RELATING TO DEBT SERVICE ON GENERAL OBLIGATION BONDS.

Notice is hereby given that statements and estimates have been filed in the Office of the District Clerk of Saguaro Springs Community Facilities District of the operation and maintenance expenses of the District, the costs of capital improvements to be financed by the voter-approved ad valorem tax levy, and the amount of all other expenditures for public infrastructure and enhanced municipal services proposed to be paid from the tax levy and of the amount to be raised to pay general obligation bonds of the District, all of which shall be provided for by the levy and collection of ad valorem taxes on the assessed value of all the real and personal property in the District. Notice is further given of a public hearing on the proposed Fiscal Year 2016-2017 budget of the District, including (but not limited to) a hearing on those portions of the statements and estimates not relating to debt service on general obligation bonds, all pursuant to Arizona Revised Statutes §§48-716 and 48-723. Such hearing will be held by the District Board on Tuesday, June 21, 2016, at or after 7:00 p.m. in the council chambers of the Town of Marana Civic Center, 11555 W. Civic Center Drive, Marana, Arizona. Copies of the budget are available from the Office of the District Treasurer, 11555 W. Civic Center Drive, Town of Marana, Arizona 85653, telephone number: (520) 382-1900.

Dated this 1st day of June, 2016

/s/ Gilbert Davidson
……..
District Manager
Saguaro Springs Community Facilities District

Published: June 8th, 2016

Council-Regular Meeting **A9**

Meeting Date: 06/21/2016

To: Mayor and Council

From: Erik Montague, Finance Director

Date: June 21, 2016

Strategic Plan Focus Area:
Community

Subject: PUBLIC HEARING: Resolution No. VFCFD 2016-02: [Marana Town Council acting as the Vanderbilt Farms Community Facilities District Board of Directors]: A Resolution of the District Board of the Vanderbilt Farms Community Facilities District, Pima County, Arizona, approving the final budget for the Vanderbilt Farms Community Facilities District for the fiscal year beginning July 1, 2016 and ending June 30, 2017 (Erik Montague)

Discussion:

On May 17, 2016, the Board of Directors adopted a tentative budget for Vanderbilt Farms Community Facilities District (VFCFD). The tentative and final budget include an ad valorem tax levy of $0.30 per one hundred ($100) of assessed valuation. The debt component $2.50 per $100 of assessed valuation will not be levied as no general obligation debt has been issued.

After conducting a public hearing, the District Board is being asked to adopt Resolution VFCFD 2016-02, adopting the final budget and establishing an ad valorem tax levy of $0.30 per one hundred ($100) of assessed valuation for fiscal year 2016-2017.

Financial Impact:

Fiscal Year: 2017

Y

Amount: $32,194

Establishment of the final budget for fiscal year 2016-2017.

Staff Recommendation:

Staff recommends adoption of Resolution VFCFD 2016-02, adopting the final budget for fiscal year 2016-2017.

Suggested Motion:

I move to adopt Resolution VFCFD No. 2016-02, adopting the final budget for the Vanderbilt Farms Community Facilities District for fiscal year 2016-2017.

Attachments

Vanderbilt Farms CFD Final Budget Resolution

Vanderbilt Farms CFD 2016-2017 Final Budget

Vanderbilt Farms CFD Published Notice

RESOLUTION NO. VFCFD 2016-02

A RESOLUTION OF THE DISTRICT BOARD OF THE VANDERBILT FARMS COMMUNITY FACILITIES DISTRICT, PIMA COUNTY, ARIZONA, APPROVING THE FINAL BUDGET BY THE VANDERBILT FARMS COMMUNITY FACILITIES DISTRICT BOARD FOR THE FISCAL YEAR BEGINNING JULY 1, 2016 AND ENDING JUNE 30, 2017.

WHEREAS, in accordance with Title 48, Section 716, Arizona Revised Statutes, and following public notice, the Board met on May 17, 2016 at which meeting any taxpayer in the District was privileged to appear and be heard in favor of or against any of the proposed expenditures or tax levies; and

WHEREAS, it appears that publication has been duly made, as required by law, of said proposed budget together with a notice that the District Board would meet on June 21, 2016, at or after 7:00 P.M., in the council chambers of the Town of Marana Civic Center, 11555 W. Civic Center Drive, Marana, Arizona, for the purpose of making tax levies as set forth in said estimates; and

NOW THEREFORE, BE IT RESOLVED that the Vanderbilt Farms Community Facilities District budget in the amount of $32,194 is hereby adopted as the budget of the Vanderbilt Farms Community Facilities District, Pima County, Arizona for the fiscal year 2016-2017.

PASSED AND ADOPTED by the District Board of Vanderbilt Farms Community Facilities District, Pima County, Arizona, this 21st day of June, 2016.

_____
Ed Honea, District Chairman

ATTEST:

_____
Jocelyn C. Bronson, District Clerk

APPROVED AS TO FORM:

_____
Frank Cassidy, District Counsel

Attachment: Statements & Schedules

VANDERBILT FARMS COMMUNITY FACILITIES DISTRICT (VFCFD)
FINAL BUDGET AND SUMMARY SCHEDULE OF ESTIMATED
REVENUES AND EXPENDITURES
FISCAL YEAR 2016-17

REVENUES	FY 2016 Adopted Budget	FY 2016 Amended Budget	FY 2016 Estimated Acutal	FY 2017 Budget
Property Tax - General (Operating)	$ 2,727	$ 2,727	$ 2,672	$ 2,355
Property Tax- Secondary (Debt Service)	-	-	-	-
Developer Contributions	27,500	27,500	-	29,839
Total Revenues	30,227	30,227	2,672	32,194
EXPENDITURES				
CFD Administration	500	500	150	500
Costs of Issuance	-	-	-	-
Accounting/Auditing	2,500	2,500	-	2,500
Public Notification Expenses	50	50	52	50
Consultant Services	15,000	15,000	-	15,000
Outside Legal Counsel	10,000	10,000	-	10,000
Debt Service	-	-	-	-
Trustee Fees	-	-	-	-
Capital Improvements Acquisition	-	-	-	-
Maintenance and Operation	4,516	4,516	-	4,144
Replacement Reserve	-	-	-	-
Total Expenditures	32,566	32,566	202	32,194
Excess (Deficiency) of Revenues Over (Under) Expenditures	(2,339)	(2,339)	2,470	-
Other Financing Sources (Uses)				
Bond Proceeds	-	-	-	-
Total Other Financing Sources	-	-	-	-
Excess (Deficiency) of Revenues and Other Financing Sources Over (Under) Expenditures and Other Financing Uses	(2,339)	(2,339)	2,470	-
BEGINNING FUND BALANCE	27,471	27,471	25,000	27,470
ENDING FUND BALANCE	$ 25,132	$ 25,132	$ 27,470	$ 27,470

VANDERBILT FARMS COMMUNITY FACILITIES DISTRICT
NOTICE OF FILING STATEMENTS AND ESTIMATES
AND
NOTICE OF PUBLIC HEARING

NOTICE OF FILING STATEMENTS AND ESTIMATES OF THE OPERATION AND MAINTENANCE EXPENSES OF THE VANDERBILT FARMS COMMUNITY FACILITIES DISTRICT, THE COSTS OF CAPITAL IMPROVEMENTS TO BE FINANCED BY THE AD VALOREM TAX LEVY, AND THE AMOUNT OF ALL OTHER EXPENDITURES FOR PUBLIC INFRASTRUCTURE AND ENHANCED MUNICIPAL SERVICES PROPOSED TO BE PAID FROM THE TAX LEVY AND OF THE AMOUNT TO BE RAISED TO PAY GENERAL OBLIGATION BONDS OF THE DISTRICT; AND NOTICE OF A PUBLIC HEARING ON THE PROPOSED FISCAL YEAR 2016-2017 BUDGET OF THE DISTRICT, INCLUDING A HEARING ON THOSE PORTIONS OF THE STATEMENTS AND ESTIMATES NOT RELATING TO DEBT SERVICE ON GENERAL OBLIGATION BONDS.

Notice is hereby given that statements and estimates have been filed in the Office of the District Clerk of the Vanderbilt Farms Community Facilities District of the operation and maintenance expenses of the District, the costs of capital improvements to be financed by the voter-approved ad valorem tax levy, and the amount of all other expenditures for public infrastructure and enhanced municipal services proposed to be paid from the tax levy and of the amount to be raised to pay general obligation bonds of the District, all of which shall be provided for by the levy and collection of ad valorem taxes on the assessed value of all the real and personal property in the District. Notice is further given of a public hearing on the proposed Fiscal Year 2016-2017 budget of the District, including (but not limited to) a hearing on those portions of the statements and estimates not relating to debt service on general obligation bonds, all pursuant to Arizona Revised Statutes §§48-716 and 48-723. Such hearing will be held by the District Board on Tuesday, June 21, 2016, at or after 7:00 p.m. in the council chambers of the Town of Marana Civic Center, 11555 W. Civic Center Drive, Marana, Arizona. Copies of the budget are available from the Office of the District Treasurer, 11555 W. Civic Center Drive, Town of Marana, Arizona 85653, telephone number: (520) 382-1900.

Dated this 1st day of June, 2016

/s/ Gilbert Davidson

……..
District Manager
Vanderbilt Farms Community Facilities District

Published: June 8th, 2016