# **TOWN OF GILBERT**



## April 4, 2024

# SUPPLEMENT TO MAG UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION

Amendments	Section No. and Title	Effective Date
<ul> <li>Revised detail note to call out bedding material per TOG Engineering Standards.</li> </ul>	GIL-302 Bedding Detail – C-900 Water Pipe	11/20/2017
<ul> <li>Added driveway and sidewalk dimensions, specified sections and details as "Not to Scale"</li> </ul>	GIL-210 Minor Commercial Driveway	01/07/2018
• Amended dimension D1 for 2 lane roads with raised medians to D4.	GIL-212 Sight Distance at Controlled	01/07/2018
Additional sight distances added for dimension D4	Intersections	
Specified metal dimension as 6 inch flat	GIL-220 Street Sign	01/07/2018
Changed material thickness from .080 gauge to .125 gauge		
Specified metal dimension as 6 inch flat	GIL-221 Street Sign With Dead End or No	01/07/2018
Changed material thickness from .080 gauge to .125 gauge	Outlet	
Specified metal dimension as 6 inch flat	GIL-223 Street Sign (Street Name Change at	01/07/2018
Changed material thickness from .080 gauge to .125 gauge	Intersection)	
Revised Mast Arm Length	GIL-810 25' Luminaire Mast Arm	01/07/2018
Revised ADOT Pole type to include Type 'W'		
Revised bolt hole spacing on luminare connection plate detail from 7" to		
7.07"		
Revised to only allow for double strap tapping saddle or approved equal	GIL-310 1" to 2" Water Service Installation	05/19/2018
Revised service line depth from 14 inch min. to be 7-10 depth range		
Revised to show minimum clearances		
Revised to show proper water meter box and lid		
Revised to require street sign sheeting to be 3M DG <sup>3</sup> or approved equal	GIL-220, GIL-221 & GIL-223	05/19/2018
Replaces existing detail GIL-345 in its entirety	GIL-345-1 & GIL-345-2	05/19/2018
Revised detail to provide concrete foundation to be 4" above grade	GIL-932	05/19/2018
Added crowned top		
Added leveling nuts		
Added struck joints to improve drainage		
Revised to show minimum clearances	GIL-310 1" to 2" Water Service Installations	5/18/2019
Revised to require root barrier if trees and shrubs are planted within 6 feet		
Revised to be standard for all round tapered poles	GIL-901	5/18/2019
Removed base cover		
Removed from Standards	GIL-902, GIL-905, GIL-906, GIL-910, GIL-921,	5/18/2019
	GIL-923, GIL-924 & GIL-925	
Revised to remove stamped asphalt from raised medians	GIL-250 & GIL-251	9/15/19
Various revisions to Traffic Signal Equipment	GIL-823, GIL-831, GIL-841, GIL-842, GIL-843,	4/23/2020
	GIL-844, GIL-850, GIL-851, GIL-861, GIL-862,	
	GIL-871, GIL-872	
Revised paint code	GIL-901	4/23/2020

Revised traffic pole details	GIL-801, GIL-802, GIL-803, GIL-804 *New	9/10/2020
	Detail, GIL-805 *New Detail	
New Utility Pothole Repair detail	GIL-273 * New detail	9/10/2020
Revised photo cell voltage range	GIL-945	9/10/2020
Removed detail from standards	GIL-211	5/12/2022
<ul> <li>Renamed and modified to apply to all intersections</li> </ul>	GIL-212	5/12/2022
Modified to show multi-duct conduit	GIL-831	5/12/2022
Updated to match current practices	GIL-841	5/12/2022
New detail added for third party joint use conduits and pull boxes	GIL-845	5/12/2022
New detail added for PVC to HDPE conduit connections	GIL-846	5/12/2022
Standardize mast arm detail for minor arterial streetlights	GIL-921	5/12/2022
Added meter sizes to meter callout	GIL-310	10/20/2022
Removed	GIL-340-1	10/20/2022
Removed	GIL-340-2	10/20/2022
Added spacer pipes to both sides of meter	GIL-345-1	10/20/2022
Revised note 5D, 6, 10	GIL-345-2	10/20/2022
Revised Note 2 and added dimension E	GIL-220	3/9/2023
Added 6A callout on spacer pipes	GIL-345-1	3/9/2023
Added Key Note 6A	GIL-345-2	3/9/2023
New details added for residential solid waste barrel marker location	GIL-190* New Detail, GIL-190-1*New Detail,	5/18/2023
	GIL-190-2* New Detail	
<ul> <li>Modified detail to specify "Arterial" roadways</li> </ul>	GIL-831	5/18/2023
Revise pull tape and tracer wire requirements		
New Interconnect and Joint Utility Trenching for "Collector" roadways detail	GIL-832 * New Detail	5/18/2023
New #7 Pull Box Installation for Fiber Interconnect on "Collector" roadways	GIL-840 * New Detail	5/18/2023
detail		
<ul> <li>Modified detail to specify "Arterial" roadways</li> </ul>	GIL-841	5/18/2023
<ul> <li>Modified General Notes #3 and #10</li> </ul>		
Modified tracer wire		
Revised Carflex Conduit to PVC Conduit	GIL-941, GIL-942	4/4/2024

100 SERI	ES: GENERAL DETAILS
New Detail No.	Description
GIL-180	SINGLE REFUSE AREA
GIL-181	DOUBLE-WIDE BIN ENCLOSURES
GIL-182	TRIPLE-WIDE BIN ENCLOSURES
GIL-183	RESTAURANT ENCLOSERN WITH GREASE TRAP
GIL-184	LARGE COMPACTOR REFUSE AREA
GIL-189	BIN ENCLOSURE SCREEN WALL, SAFETY POST & GATE STANDARDS
GIL-190	SMALL LOT RESIDENTIAL SOLID WASTE BARREL MARKER
GIL-190-1	RESIDENTIAL SOLID WASTE GUIDELINES - SMALL LOTS WITH PRIVATE DRIVES
GIL-190-2	BARREL COLLECTION PADS AT SMALL LOTS WITH PRIVATE DRIVES

#### **200 SERIES: STREET DETAILS**

New Detail No.

Description

GIL-210	COMMERCIAL DRIVEWAY
<b>A</b> 11 <b>A</b> 1 <b>A</b>	

GIL-212	SIGHT DISTANCE AT CONTROLLED INTERSECTIONS

- GIL-220 STREET SIGN
- GIL-221 STREET SIGN WITH DEAD END OR NO OUTLET
- GIL-223 STREET SIGN STREET NAME CHANGE AT INTERSECTION
- GIL-226 FIRE LANE SIGN DETAIL
- GIL-227 SIGN POST AND BASE
- GIL-231 BIKE PAVEMENT MARKING STENCILS
- GIL-232 HANDICAP PARKING SYMBOLS
- GIL-233 RAISED PAVEMENT MARKER DETAILS
- GIL-240 CURB MARKINGS FOR RAISED MEDIANS AND MEDIAN ISLANDS
- GIL-250 ASPHALT STAMPING DETAIL BRICK & ASHLAR SLATE TEMPLATE
- GIL-251 ASPHALT STAMPING DETAIL TRI-HEX KEYSTONE & TORTOISE
- GIL-260 SHELL TEMPLATE DETECTABLE WARNING MAT EXISTING RAMPS
- GIL-261 DETECTABLE WARNING PANEL DETAIL NEW RAMP
- GIL-270 BACKFILL, PAVEMENT & SURFACE REPLACEMENT
- GIL-271 TRENCH PLATING
- GIL-272 TRAFFIC DRUM DETAILS
- GIL-273 UTILITY POTHOLE REPAIR

#### **300 SERIES: WATER DETAILS**

New Detail No	Description
GIL-301	BEDDING DETAIL - CONCRETE PIPE
GIL-302	BEDDING DETAIL - C-900 WATER PIPE
GIL-310	1" TO 2" WATER SERVICE INSTALLATION
GIL-320-1	FIRE HYDRANT
GIL-320-2	FIRE HYDRANT
GIL-325	PAVEMENT MARKERS FOR FIRE HYDRANTS
GIL-345	PARALLEL 2" WATER METER VAULT
GIL-349	1" AND 2" WATER SERVICE ABANDONMENT
GIL-350	2" AND SMALLER REDUCED PRESSURE PRINCIPLE
GIL-351	ASSEMBLY 2 1/2" AND LARGER REDUCED
GIL-359	PRESSURE PRINCIPLE ASSEMBLY GUARD POSTS
GIL-360	1" AIR RELEASE VALVE

#### 400 SERIES: SEWER DETAILS

New Detail No	. Description
GIL-401	BEDDING DETAIL - PVC SEWER PIPE BEDDING
GIL-402	DETAIL - VCP SEWER PIPE
GIL-410	4" SEWER SERVICE INSTALLATION
GIL-419	4" SEWER SERVICE ABANDONMENT

#### **700 SERIES: RECLAIMED WATER DETAILS**

New Detail No	. Description
GIL-701	BEDDING DETAIL - RECLAIMED WATER LINE
GIL-710	RECLAIMED MANUAL SHUTOFF VALVES*
GIL-715	RECLAIMED VALVE LIDS*
GIL-720	RECLAIMED WATER METERS*
GIL-730	RECLAIMED AIR/VACUUM RELIEF VALVES*
GIL-740	RECLAIMED AUTOMATED TURNOUTS*
*NEED TO BE	DEVELOPED

800 SER	IES: TRAFFIC SIGNAL DETAILS	900 SERIES: L	IGHTING DETAILS
New Detail N	lo. Description	New Detail No.	Description
GIL-801	"Q" , "R", & "W" POLE DETAILS	GIL-901	ROUND TAPERED POLE
GIL-802	"Q" , "R", & "W" POLE DETAILS	GIL-919	POLE HANDHOLE DETAIL 4 1/2" X X10 3/8"
GIL-803	"Q" , "R", & "W" POLE DETAILS	GIL-921	REINFORCED 12' X 8' HIGH RISE ARM
GIL-804	TYPE "A-1" POLE DETAILS	GIL-932	CONCRETE FOUNDATION DETAIL
GIL-805	BICYCLE / PEDESTRIAN PUSH BUTTON POLE	GIL-941	FUSING AND GROUNDING DETAIL SRP AREA
GIL-810	25' LUMINAIRE MAST ARM	GIL-942	FUSING AND GROUNDING DETAIL APS AREA
GIL-823	STANDARD VIDEO DETECTION DETAIL	GIL-945	PHOTO CONTROL DETAIL
GIL-831	INTERCONNECT TRENCHING AND JOINT UTILITY TRENCHING DETAIL (ARTERIAL)		
GIL-832	INTERCONNECT TRENCHING AND JOINT UTILITY TRENCHING DETAIL (COLLECTOR)		
GIL-840	NO. 7 PULL BOX TYPICAL INSTALLATION FOR FIBER INTERCONNECT (COLLECTOR)		
GIL-841	NO. 7 PULL BOX TYPICAL INSTALLATION FOR FIBER INTERCONNECT (ARTERIAL)ARTER		
GIL-842	NO. 7 PULL BOX TYPICAL INSTALLATION FOR TRAFFIC SIGNALS		
GIL-843	TRAFFIC SIGNAL PULLBOX		
GIL-844	NO. 9 VAULT AND COVER DETAIL		
GIL-845	TYPICAL THRID PARTY JOINT USE CONDUIT AND PULL BOX ACCESS		
GIL-846	PVC TO HDPE CONDUIT CONNECTION		
GIL-850	IMSA WIRE PHASE IDENTIFICATION		
GIL-851	WIRE COLOR CODE AND IDENTIFICATION		
GIL-861	CCTV CAMERA DETAIL		
GIL-862	ETHERNET RADIO DETAIL		
GIL-871	TRAFFIC SIGNAL METER PEDISTAL		
GIL-872	CONTROL CABINET FOUNDATION		
1			





#### MAX. BIN DEVIATION



#### NOTES:

- 1. GATES, HINGES AND MOUNTING HARDWARE SHALL BE INSTALLED SO HERE IS A MINIMUM 9 FOOT DEPTH CREATED WITHIN EACH ENCLOSURE.
- 2. BIN ENCLOSURES ARE TO BE ANGLED NO MORE THAN 30 DEGREES FROM THE CENTER LINE OF THE SOLID WASTE COLLECTION VEHICLE ROUTE.
- 3. CONTRACTION JOINTS MAY BE EITHER SCORED OR SAWCUT 1 INCH DEEP.



	STANDARD
GILBERT	DETAIL

DATE





1. BIN ENCLOSURE TO BE A MINIMUM OF 5 FEET FROM ANY PLANNED OR EXISTING STRUCTURE AT ITS CLOSEST POINT

DETAIL

JILBER

- 2. BINS THAT ARE VISIBLE FROM A PUBLIC ROADWAY SHALL HAVE ENCLOSURE GATES THAT SCREEN THE BINS FROM PUBLIC VIEW.
- GATES SHALL BE INSTALLED SO THERE IS A NET BIN ENCLOSURE OPENING OF 12 FEET PER BIN. GATES, HINGES AND MOUNTING HARDWARE SHALL NOT INTRUDE UPON MINIMUM NE ENCLOSURE OPENING.
- 4. GATES, HINGES AND MOUNTING HARDWARE SHALL BE INSTALLED SO THERE IS A MINIMUM 9 FOOT DEPTH CREATED WITHIN EACH ENCLOSURE.
- 5. EACH ENCLOSURE GATE SHALL HAVE DROP PINS INSTALLED AND HOLES DRILLED IN THE CONCRETE AT BOTH THE OPEN AND CLOSED POSITIONS TO PREVENT GATES FROM CLOSING INTO THE COLLECTION VEHICLE.
- 6. BIN ENCLOSURES SHALL HAVE (3) 6" DIAMETER STEEL SAFETY POSTS INSTALLED IN THE BACK OF THE ENCLOSURE ONLY PER DETAIL ON THIS SHEET.
- SAFETY POSTS SHALL HAVE A HEIGHT OF 6 FEET OR BE EQUAL TO THE HEIGHT OF THE BACK SCREEN WALL OF THE ENCLOSURE. SAFETY POSTS SHALL BE PLACED A MINIMUM OF 4" FROM THE WALL.
- 8. USE CLASS "A" CONCRETE AS PER MAG SECTION 725 EXCEPT AS NOTED IN SAFETY POST DETAIL ON THIS SHEET.
- 9. STEEL REINFORCEMENT SHALL BE GRADE 40.
- 10. EXPANSION JOINT FILLER SHALL BE ½" BITUMINOUS TYPE PREFORMED EXPANSION JOINT FILLER ASTM D-1751.

DETAIL NO.

**GIL-189** 

DATE

- 11. EXTERIOR FINISH OF SCREEN WALLS SHALL BE COORDINATED ARCHITECTURALLY WITH PRIMARY BUILDING FINISHES.
- SOIL BELOW THE WALL FOOTER AND CONCRETE PAD SHALL BE COMPACTED TO A DEPTH OF 6 INCHES AND TO A MINIMUM DRY DENSIT OF 90% IN ACCORDANCE WITH ASTM D-2922 AND D-3017, AFTER ADJUSTMENT FOR ROCK CORRECTION.



SAFETY POST & GATE STANDARDS



APPROVED

TOWN ENGINEER



## THE COURTYARD OR CLUSTER TYPE HOME DESIGN THAT DOES NOT ALLOW FOR CURBSIDE PICKUP (IN FRONT OF CUSTOMERS HOME) OF THE SOLID WASTE AND RECYCLABLE BARRELS SHOULD MEET THE FOLLOWING CRITERIA:

- 1. EACH UNIT MUST HAVE A PREDETERMINED LOCATION FOR A MINIMUM OF 2 BARRELS PER UNIT WHERE STREET PARKING IS PROHIBITED AT ALL TIMES. BARRELS SHALL HAVE A DESIGNATED LOCATION ON THE STREET WITH A PERMANENT MARKING ON THE CURBING IDENTIFYING ADDRESS OR UNIT NUMBER REFER TO GIL-190. SHOW ALL BARREL LOCATIONS, WITH ADDRESSES, ON SITE PLAN. FOR VISIBILITY TRIANGLE, REFER TO LATEST VERSION OF ENGINEERING AND DESIGN STANDARDS. LOCATIONS FOR THE BARRELS SHALL BE IDENTIFIED WITH A DURABLE METAL MARKER, REFER TO GIL-190.
- ON STREET PARKING REQUIREMENTS: UNDER 26' WIDTH - NO PARKING EITHER SIDE
   26' to 32' WIDTH - PARKING ON ONE SIDE EXCEPT IN FRONT OF BARREL PLACEMENT MARKERS, AS SIGNED. COORDINATE WITH SOLID WASTE AND TRANSPORTATION TO DETERMINE WHICH SIDE OF ROAD MAY HAVE PARKING.
   32' WIDTH - NO PARKING IN FRONT OF BARREL PLACEMENT MARKERS, AS SIGNED.
- 3. BARREL MUST BE PHYSICALLY LOCATED IN SUCH A WAY THAT THE DISTANCE TO THE PARCEL IS A MAXIMUM OF 100 FEET. THE LOCATION SHOULD BE LOGICALLY PLACED SO THAT RESIDENT(S) WOULD INSTINCTIVELY KNOW THEIR PLACEMENT LOCATION.
- 4. PLACEMENT DESIGNATIONS WILL NOT BE LOCATED NEAR CLUSTER MAILBOX LOCATIONS. BARRELS SHOULD HAVE A MINIMUM 54" SPACING, CENTER TO CENTER OF BARREL.
- 5. TREES SHALL NOT BE PLANTED WITHIN TEN (10) FEET OF THE BARREL LOCATION AREA AND SHOULD BE SPACED SO AS NOT TO CREATE AN AERIAL OBSTRUCTION FOR THE BARREL DUMPING AT THE FINAL FULL GROWTH DIMENSIONS.
- 6. NO STRUCTURE OF ANY KIND SHALL BE PLACED WITHIN 4' HORIZONTAL OF BARREL COLLECTION LOCATION AREAS.
- 7. THE REQUIRED USE OF IDENTIFIED LOCATIONS FOR INDIVIDUAL 90-GALLON CONTAINERS MUST BE INCLUDED IN THE HOMEOWNER'S CONDITIONS, COVENANTS, AND RESTRICTIONS (CC&R'S).
- 8. BARRELS WILL NEED TO BE SET OUT FOR COLLECTION BY 6:00 A.M. AND REMOVED NO LATER THAN 6:00 P.M. ON THE DAY OF COLLECTION.
- 9. GARAGE OR STORAGE AREAS MUST HAVE ROOM TO ACCOMMODATE ONE 90-GALLON REFUSE CONTAINER, ONE 90-GALLON RECYCLING CONTAINER, AND ONE 90-GALLON GREEN WASTE CONTAINER.
- 10. GATES OR DOOR OPENING MUST ALLOW FOR CONTAINER PASSAGE OF APPROXIMATELY 33 INCHES IN WIDTH.
- 11. BARREL COLLECTION LOCATION AREA SHALL NOT ENCROACH ONTO SIDEWALKS.
- 12. ALL STREETS FOR CURBSIDE COLLECTION MUST BE A MINIMUM OF 28' FROM FACE OF CURB TO FACE OF CURB. THIS INCLUDES ALLEYS.
- 13. BARRELS MUST REMAIN ON THE SAME STREET.

	STANDARD	RESIDENTIAL SOLID WASTE WASTE GUIDELINES -	APPROVED	DETAIL NO.
GILBERT	DETAIL	SMALL LOTS WITH PRIVATE DRIVES	TOWN ENGINEER DATE	GIL-190-1



	STANDARD	BARREL COLLECTION PADS AT SMALL LOTS WITH	APPROVED	DETAIL NO.
GILBERT	DETAIL	PRIVATE DRIVES	TOWN ENGINEER DATE	GIL-190-2





MAIN STREET	POSTED SPEED LIMIT ON MAIN STREET	D <sub>1</sub>	D2*	D <sub>3</sub>	D <sub>4</sub>
LOCAL	25	310'	355'	245'	290'
COLLECTOR	25	310'	355'	245'	290'
	30	365'	415'	285'	335'
	35	415'	475'	325'	385'
MINOR ARTERIAL	45	590'	625'	445'	480'
MAJOR ARTERIAL	45	665'	665'	480'	480'

\* VALUE NOT REQUIRED FOR SIGNALIZED INTERSECTIONS

## APPROVED

AT ALL OTHER APPROACHES.

NOTE:

DETAIL NO.



1. DETAIL PERTAINS TO ALL CONTROLLED INTERSECTIONS AND COMMERCIAL/SHOPPING CENTER DRIVEWAYS

2. FOR AN ALL-WAY STOP THESE DISTANCES ARE PREFERRED, THE MINIMUM REQUIREMENT IS TO HAVE VISIBILITY OF ONE CAR LENGTH

ON ALL CLASSIFICATIONS OF ROADWAYS.



DATE



- 1. LENGTH: DEPENDS ON LENGTH OF STREET NAME.
- 2. METAL: .125 GAUGE, 6061-T6 OR 5052-H3B ALLOY SHEET ALUMINUM.
- 3. REFLECTIVE SHEETING: COPY AND BACKGROUND SHALL BE 3-M TYPE XI OR EQUIVALENT. MATCH COMPONENT SYSTEM.
- 4. LETTERS, NUMBERS, ETC. TO BE PRESSURE SENSITIVE ACRYLIC EC FILM.
- 5. LETTERS, NUMBERS AND SPACING SHALL BE PER U.S. DEPARTMENT OF TRANSPORTATION STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS SERIES B.
- 6. COLOR: TO BE PER LATEST ADOT STANDARDS WITH THE BACKGROUND GREEN AND THE COPY (BORDER AND LEGEND) WHITE WITH THE EXCEPTION OF PRIVATE STREETS WHICH SHALL HAVE A BLUE BACKGROUND.

- 7. SIGN PANELS SHALL BE FREE OF BUCKLES, WARPS, DENTS, COCKLES, BURPS AND DEFECTS RESULTING FROM FABRICATIONS AND SHIPPING.
- 8. PRESSURE SENSITIVE COPY MUST PROVIDE MINIMUM 10 YEAR DURABILITY WITH PREMATURE FAILURE DUE TO NATURAL WEATHERING OR SIGN TO BE REPLACED BY VENDOR AT NO CHARGE TO THE TOWN OF GILBERT. FAILURE IS INTERPRETED TO BE CRACKING OR PEELING OF BACKGROUND OR LEGEND FROM NORMAL WEATHERING.
- 9. THE SIGN MANUFACTURER SHALL SUBMIT A NOTARIZED CERTIFICATION OF COMPLIANCE TO THE TOWN OF GILBERT STATING THAT THE MANUFACTURE PROCEDURE AND THE MATERIALS FURNISHED CONFORM TO THE REQUIREMENTS OF THE PROVISIONS.
- 10. DIMENSIONS (INCHES)

WHEN APPROACHED ON A:	А	В	С	D	Е
ARTERIAL	8	6	3	2.25	12
COLLECTOR	6	4.5	3	2.25	10
LOCAL	4	3	2	1.5	8

	STANDARD		APPROVED	DETAIL NO.
GILBERT	DETAIL	STREET SIGN	TOWN ENGINEER DATE	- GIL-220



LAYOUT ONLY, SEE BELOW FOR LETTER STYLE.



- 1. LENGTH: TO ACCOMMODATE TEXT AND ARROW PER NOTE 10.
- 2. METAL: .125 GAUGE, 6061-T6 OR 5052-H3B ALLOY SHEET ALUMINUM.
- REFLECTIVE SHEETING: COPY AND BACKGROUND SHALL BE 3-M DG<sup>3</sup> OR EQUIVALENT. MATCH COMPONENT SYSTEM.
- 4. LETTERS, NUMBERS, ETC. TO BE PRESSURE SENSITIVE ACRYLIC EC FILM. TEXT OF "DEAD END" OR "NO OUTLET" PER TOWN TRAFFIC ENGINEER.
- 5. LETTERS, NUMBERS AND SPACING SHALL BE PER U.S. DEPARTMENT OF TRANSPORTATION STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS SERIES B.
- 6. COLOR: TO BE PER LATEST ADOT STANDARDS WITH THE BACKGROUND YELLOW AND THE COPY (LEGEND) BLACK.

- 7. SIGN PANELS SHALL BE FREE OF BUCKLES, WARPS, DENTS, COCKLES, BURPS AND DEFECTS RESULTING FROM FABRICATIONS AND SHIPPING.
- 8. PRESSURE SENSITIVE COPY MUST PROVIDE MINIMUM 10 YEAR DURABILITY WITH PREMATURE FAILURE DUE TO NATURAL WEATHERING OR SIGN TO BE REPLACED BY VENDOR AT NO CHARGE TO THE TOWN OF GILBERT. FAILURE IS INTERPRETED TO BE CRACKING OR PEELING OF BACKGROUND OR LEGEND FROM NORMAL WEATHERING.
- 9. THE SIGN MANUFACTURER SHALL SUBMIT A NOTARIZED CERTIFICATION OF COMPLIANCE TO THE TOWN OF GILBERT STATING THAT THE MANUFACTURE PROCEDURE AND THE MATERIALS FURNISHED CONFORM TO THE REQUIREMENTS OF THE PROVISIONS.
- 10. DIMENSIONS (INCHES)

WHEN APPROACHED ON A:	А	В
ARTERIAL	8	6
COLLECTOR/LOCAL	6	4

	STANDARD	STREET SIGN	APPROVED	DETAIL NO.
GILBERT	DETAIL	WITH DEAD END OR NO OUTLET	TOWN ENGINEER DATE	GIL-221



LAYOUT ONLY, SEE BELOW FOR LETTER STYLE

- 1. LENGTH: DEPENDS ON LENGTH OF STREET NAME (LEGEND).
- 2. METAL: 6" FLAT, .125 GAUGE, 6061-T6 OR 5052-H3B ALLOY SHEET ALUMINUM.
- REFLECTIVE SHEETING: COPY AND BACKGROUND SHALL BE 3-M DG<sup>3</sup> OR EQUIVALENT. MATCH COMPONENT SYSTEM.
- 4. LETTERS, NUMBERS, ETC. TO BE PRESSURE SENSITIVE ACRYLIC EC FILM.
- 5. LETTERS, NUMBERS AND SPACING SHALL BE PER U.S. DEPARTMENT OF TRANSPORTATION STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS SERIES B.
- 6. COLOR: TO BE PER LATEST ADOT STANDARDS WITH THE BACKGROUND GREEN AND THE COPY (BORDER AND LEGEND) WHITE WITH THE EXCEPTION OF PRIVATE STREETS WHICH SHALL HAVE A BLUE BACKGROUND.

- 7. SIGN PANELS SHALL BE FREE OF BUCKLES, WARPS, DENTS, COCKLES, BURPS AND DEFECTS RESULTING FROM FABRICATIONS AND SHIPPING.
- 8. PRESSURE SENSITIVE COPY MUST PROVIDE MINIMUM 10 YEAR DURABILITY WITH PREMATURE FAILURE DUE TO NATURAL WEATHERING OR SIGN TO BE REPLACED BY VENDOR AT NO CHARGE TO THE TOWN OF GILBERT. FAILURE IS INTERPRETED TO BE CRACKING OR PEELING OF BACKGROUND OR LEGEND FROM NORMAL WEATHERING.
- 9. THE SIGN MANUFACTURER SHALL SUBMIT A NOTARIZED CERTIFICATION OF COMPLIANCE TO THE TOWN OF GILBERT STATING THAT THE MANUFACTURE PROCEDURE AND THE MATERIALS FURNISHED CONFORM TO THE REQUIREMENTS OF THE PROVISIONS.
- 10. DIMENSIONS (INCHES)

WHEN APPROACHED ON A:	Α	В	С	D
ARTERIAL	8	6	3	2.25
COLLECTOR	6	4.5	3	2.25
LOCAL	4	3	2	1.5

	STANDARD	STREET SIGN	APPROVED	DETAIL NO.
GILBERT	DETAIL	STREET NAME CHANGE AT INTERSECTION	TOWN ENGINEER DATE	- GIL-223

	F L/	RE 12"						
	PAF	NO 11/2" RKING	18"	BEGIN		E	ND	
	BETW BY ORI FIRE TOWN	EEN SIGNS <sup>3/4*</sup> DER OF THE <sup>†</sup> MARSHAL OF GILBERT		12" DETAIL #2		DETAIL	L #3	
	<u>DE</u> <u>NOTES:</u> FIRE LANE NO PA	TAIL #1	STALLED AS FOLL	LOWS:				
	- ONE AT THE BE - ONE SPACED EN DISCRETION OF T ALONG THE RES	GINNING OF THE RESTRICT /ENLY EVERY ONE HUNDRE [HE FIRE CODE OFFICIAL. IN TRICTION.	TON. (DETAIL #1) ED (100) FEET WIT N CURVED CURBS	WITH (DETAIL #2) THIN THE RESTRICTED AREA (DETAIL S/ZONES AND AREAS THAT PRESENT	_ #1). SOME AREAS MAY RE VISUAL OBSTACLES, SIGN	QUIRE REDUCED SI IS NEED TO BE VISIE	IGN SPACING AT BLE FROM ANY F	' THE ?OINT
	- ONE AT THE EN	D OF THE RESTRICTION. (D	ETAIL #1) WITH (E	DETAIL #3)				
	2" LETTERS ARE 5 1 1/2" LETTERS AN 3/4" LETTERS ARI ALL LETTERS ARI	5/8" WIDE. RE 1/2" WIDE. E 1/8" WIDE. E RED ON A WHITE REFLEC	TIVE BACKGROU	ND.				
	THE SIGNS ARE 1	TO BE MOUNTED ON A POST	T AS PER TOG ST	ANDARD DETAIL GIL-227.				
	THE BOTTOM OF	THE SIGN IS TO BE 7' ABOV	/E GRADE.					
	THESE SIGNS AR	E NOT SUPPLIED BY THE TO	OWN OF GILBERT					
<b>(</b> Gilbert	STANDARD DETAIL	FIRE I	LANE SIG	N DETAIL	APPROVED		DATE	DETAIL NO.









**BIKE LANE** 

BIKE PAVEMENT MARKING STENCILS					
LEGEND OR IMAGE	IMAGE WIDTH & HEIGHT	STENCIL SIZE (SPRAY PAINT)	STENCIL SIZE (HOT PLASTIC)		
STRAIGHT ARROW	72" X 21"				
BIKE TRAIL SYMBOL	52" X 42"	56" X 44"	60" X 48"		
BIKE LANE SYMBOL	36" X 72"	44" X 86"	48" X 90"		

APPROVED STANDARD DETAIL NO. 0 BIKE PAVEMENT MARKING STENCILS GIL-231 DETAIL GILBERT DATE TOWN ENGINEER





S-24HC HANDICAP PARKING SYMBOL

S-48HC HANDICAP PARKING SYMBOL

PAVEMENT MARKING STENCILS						
NO.	IMAGE	IMAGE WIDTH & HEIGHT	STENCIL SIZE (SPRAY PAINT)	STENCIL SIZE (HOT PLASTIC)		
S-48HC	HANDICAP PARKING SYMBOL	36" X 41"	44" X 56"	48" X 60"		
S-24HC	HANDICAP PARKING SYMBOL	24" X 28"	26" X 30"	30" X 34"		





NOTES:

- 1. TYPE A RAISED PAVEMENT MARKERS ARE WHITE AND NON-REFLECTIVE. TYPE AY RAISED PAVEMENT MARKERS ARE YELLOW AND NON-REFLECTIVE.
- 2. TYPE J DAGMARS ARE WHITE AND REFLECTORIZED. TYPE JY DAGMARS ARE YELLOW AND REFLECTORIZED. ENCAPSULATED LENS REFLECTORS SHALL BE USED FOR TYPE J AND JY DAGMARS. SUCH REFLECTORS SHALL NOT EXTEND BEYOND THE CROWN SURFACE.
- 3. TYPE A AND AY RAISED PAVEMENT MARKERS AND J AND JY DAGMARS CONSIST OF A HEAT-FIRED VITREOUS CERAMIC BASE AND A HEAT-FIRED, OPAQUE, GLAZED SURFACE.
- 4. THE FOLLOWING RAISED PAVEMENT MARKERS ARE REFLECTORIZED AND INTENDED FOR USE WITH TWO-WAY TRAFFIC:
  - COLOR --- TYPE D YELLOW BOTH SIDES
- 5. THE FOLLOWING RAISED PAVEMENT MARKERS ARE REFLECTORIZED AND INTENDED FOR USE WITH ONE-WAY TRAFFIC: COLOR

- TYPE C WHITE ONE SIDE, RED ONE SIDE **TYPE G - WHITE**
- **TYPE H YELLOW**
- 6. TYPE C, D, G AND H RAISED PAVEMENT MARKERS SHALL CONSIST OF A PLASTIC SHELL FILLED WITH A MIXTURE OF AN INERT THERMO SETTING COMPOUND AND FILLER MATERIALS. THE EXTERIOR SURFACE SHALL BE SMOOTH. THE SHELL SHALL CONTAIN ONE OR TWO PRISMASTIC REFLECTOR FACES. AS REQUIRED. OF THE COLOR SPECIFIED.
- 7. TYPE K JIGGLE BARS ARE WHITE AND REFLECTORIZED. TYPE KY JIGGLE BARS ARE YELLOW AND REFLECTORIZED. JIGGLE BARS MAY CONSIST OF A HEAT-FIRED VITREOUS CERAMIC BASE OR A CLASS B CONCRETE MIX FOR MINOR STRUCTURES. THE COLOR OF JIGGLE BARS SHALL BE ACCOMPLISHED BY PAINTING ALL UPPER SURFACES WITH TRAFFIC PAINT. REFLECTORIZATION SHALL BE ACCOMPLISHED BY DROPPING GLASS BEADS INTO THE WET TRAFFIC PAINT. TRAFFIC PAINT. GLASS BEADS AND METHODS OF APPLICATION SHALL BE PER MANUFACTURER'S RECOMMENDATION.
- 8. ALL DIMENSIONS ARE NOMINAL, EXCEPT AS OTHERWISE NOTED.
- 9. THE REFLECTORIZED RAISED PAVEMENT MARKER ILLUSTRATED IS THE SQUARE SHOULDER TYPE. THE ROUND SHOULDER TYPE IS AN ACCEPTABLE ALTERNATE.

STANDARD RAISED PAVEMENT MARKER DETAILS	APPROVED	DETAIL NO.





		INDIVIDUAL TRI-HEX KEYSTONE PAT	TTERN		
TRI-HEX KEYSTONE TEMPLATE NOTE: THE TRI-HEX KEYSTONE TEMPLATE SHALL BE USED IN DESIGNATED CROSSWALK ZONES ONLY.					
GILBERT ARIZONA	STANDARD DETAIL	ASPHALT STAMPING DETAIL TRI-HEX KEYSTONE	APPROVED	DETAIL NO. GIL-251	





PLAN VIEW

NOTES:

- 1. GILBERT LETTERING MUST BE SHOWN ON EACH SECTION AS SHOWN IN THE DRAWINGS.
- 2. DETECTABLE WARNING PANELS SHALL CONSIST OF THE APPROPRIATE CAST IRON GRADE MANUFACTURED BY NEENAH FOUNDRY COMPANY OR AN APPROVED EQUAL "PATINA". APPLIED AS A WET SET APPLICATION. ALSO REFER TO MAG FOR BROOM FINISH AND SHALL CONFORM TO THE DETAILS IN THE PLANS AND IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND INSTALLATION INSTRUCTIONS.
- 3. INSTALLATION SHALL START AT BACK OF CURB 24" DEPTH, AND COVER COMPLETE WIDTH OF RAMP. DOMES SHALL BE ALIGNED IN DIRECTION OF TRAVEL TOWARD THE RAMP ON THE OPPOSITE SIDE OF STREET.
- 4. PLEASE CONTACT T.O.G. STREETS DEPARTMENT FOR ADDITIONAL QUESTIONS AT (480)503-6400.

NOT TO SCALE

	STANDARD	DETECTABLE WARNING PANEL DETAIL	APPROVED	DETAIL NO.
GILBERT	DETAIL	NEW RAMP	TOWN ENGINEER DATE	-   GIL-26I






















GILBH		1eter Assembly key notes
ERT DE	SEE GIL	BACKFLOW PREVENTOR: FLANGE BY FLANGE BACKFLOW TO BE INSTALLED. BACKFLOW SHALL BE A REDUCED PRESSURE PRINCIPLE ASSEMBLY, AND APPROVED BY THE U.S.C. FOUNDATION FOR CROSS CONNECTION AND HYDRAULIC RESEARCH. <u>THE BACKFLOW PREVENTOR SHALL BE OWNED &amp; MAINTAINED BY THE PROPERTY OWNER.</u> CONTACT THE TOWN OF GILBERT BACKFLOW PREVENTION DEVISION FOR THE MOST CURRENT LIST OF APPROVED BACKFLOW PREVENTION ASSEMBLIES. ASSEMBLIES SHALL MEET EPA-SDWA SECTION 14.17(D), <0.25% STANDARD ON
NDARD TAIL	345	TOTAL LEAD CONTENT. 2) OUTSIDE STEM & YOKE (OS & Y) RISING STEM GATE VALVE, FLANGE BY FLANGE WITH HAND WHEEL OPENING COUNTER CLOCKWISE. NSF APPROVED. APPROVED MANUFACTURERS, CLOW, MUELLER, WATEROUS OR APPROVED
NO	-1	3) 90° ELBOW D.I.P. FLANGE BY FLANGE ABOVEGROUND - MJ X MJ MEGA RESTRAINED BELOW GROUND.
N-FIR	FOR	4) PIPE SPOOL - FLANGE ABOVEGROUND X MJ MEGA RESTRAINED UNDERGROUND D.I.P. 3" THRU 10" 5) METER ASSEMBLY WILL BE REQUIRED TO HAVE A 2" METERED BYPASS LINE INCLUDING ITS OWN 2" BACKFLOW
RE-RA ASS	, DRA	ON THE BY-PASS LINE. THIS WILL ASSURE WATER SERVICE TO THE CUSTOMER WHILE REPAIR AND SERVICE IS BEING PERFORMED ON THE METER. ALL BYPASS LINES SHALL BE CONSTRUCTED WITH MINIMUM OF 2" TYPE K (HARD) COPPER PIPE AND FITTINGS SHALL BE CONNECTED WITH LEAD-FREE SOLDER JOINTS.
TED 3" SEMBL	WING	(5) 2" REDUCED PRESSURE PRINCIPAL BACKFLOW PREVENTER, CONTACT THE TOWN OF GILBERT BACKFLOW PREVENTION DEVISION FOR THE MOST CURRENT LIST OF APPROVED BACKFLOW ASSEMBLIES. (5) 2" BRASS UNION
AND   ′ (WIT	DETA	5C) 2" BRONZE CHECK VALVE SD) 2" METER SHALL MEET THE TOWN STANDARDS FROM AN APPROVED VENDOR/DISTRIBUTOR
_ARGEF H BACK	LS	WATER METER SET BY THE TOWN OF GILBERT STANDARD DETAILS THAT MUST BE NSF APPROVED TO THE LATEST STANDARDS. THE FLOW DIRECTION OF THE METER MUST CORRESPOND WITH THE FLOW DIRECTION AT INSTALLATION. ALL METERS SHALL BE PURCHASED FROM A TOWN OF GILBERT APPROVED VENDOR/DISTRIBUTOR AND INSTALLED PER MANUFACTURERS SPECIFICATIONS.
R W. (FLC	]	6 PROPERLY GROUND/BOND WATER METER ACCORDING TO WATER METER MANUFACTURE SPECIFICATIONS.
ATER DW)	$\bigcirc$	7) ADJUSTABLE METAL PIPE SUPPORTS FOR 3" & LARGER ASSEMBLIES ONLY (POWDER COATED UNLESS OTHERWISE NOTED ON PLANS) ON CONCRETE SLAB. PIPE SUPPORTS SHALL BE UNDER WATER METER, VALVES, AND BY-PASS I INF
METE	$\bigcirc$	DOUBLE STRAP BRONZE SADDLE, 2" × CLOSE BRASS NIPPLE AND 2" FORD B-II-777W LOCKING CURB STOP OR APPORVED EQUAL. WITH 1-7/8" TAP (NSF APPROVED)
ER /	$\bigcirc$	9 contractor shall provide and install a 1" flange spacer between the gate valve and the strainer on the water meter assembly for 3" and larger sizes.
APPROVED		O STRAINER SHALL MEET OR EXCEED AWWA APPROVED, LEAD FREE AND CURRENT NSE REGULATION COMPLIANT, BRONZE OR STAINLESS STEEL BODY, Z PLATE STRAINER EQUIPPED WITH 316 STAINLESS STEEL FASTENERS, STAINLESS STEEL BODY OR BRASS DRAIN PLUG, AND STAINLESS STEEL SCREEN DIRECTLY UPSTREAM OF THE WATER METER USING 316 STAINLESS STEEL HARDWARE.
TOWN E	$\bigcirc$	I) CLEARANCE REQUIREMENTS FOR ASSEMBLIES (12" MIN. , 18" MAX.)
NGINEER	$\bigcirc$	2 ZINC COATED THREADED STEEL ROD, BOLT TO FLANGES AS SHOWN, TYPICAL BOTH SIDES. ROD DIAMETER TO MATCH NOMINAL BOLT DIAMETER FOR CONNECTING FLANGES.
		3 WHERE A SINGLE DEDICATED VALVE FOR THE METER ASSEMBLY DOES NOT ALREADY EXIST, INSTALL A GATE VALVE AND VALVE BOX & COVER PER MAG DETAILS 301 AND 391-1 & 391-2 TYPE C. BURIED VALVES SHALL BE PER WATER RESOURCES APPROVED PRODUCTS LIST.
		(1) FLANGE X FLANGE 12" SPOOL WITH TEST FOR FOR ANNUAL INSPECTIONS. (TOWN APPROVED METER MAY BE COMBINATION STRAINER-METER-TEST PORT)
DA		IS FINISHED GRADE BENEATH METER ASSEMBLY. GRADE LEVEL AND FREE OF TRIP HAZARDS. COMPACT TO 95% OF MAXIMUM DENSITY.
λTE		6) concrete base for adjustable metal pipe supports, 6" x 12" continuous beneath assembly as shown. 7) 6"x 6"x 6" concrete base for adjustable metal pipe supports beneath assembly as shown.
Detai GIL-3		ASSEMBLY MUST BE PAINTED WITH RUST-O-LEUM PRODUCT CODE: 249032, GLOSS KHAKI COLOR OR APPROVED EQUIVALENT KHAKI COLOR COATING. CONTRACTOR SHALL NT PAINT: NAME PLATES, VALVE STEMS, METER DIALS, ELECTRONIC COMPONENTS, OR TEST PLUGS.
∟ No. <b>45-2</b>		TOWN OF GILBERT LARGE WATER METERS (3" AND LARGER) SHALL BE LOCATED IN AN AREA ADJACENT TO OR BE IMMEDIATELY ACCESSIBLE FROM A PERMANENT VEHICLE ACCESS ROAD, BUT NOT IN TRAFFIC AREA



LIST OF MATERIALS:

- 1 APPROVED REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER ASSEMBLY, BALL VALVES INCLUDED.
- (2) PIPING SHALL BE TYPE "K" HARD COPPER (3/4" THRU 2 1/2") USING LEAD-FREE SOLDER. 3" OR LARGER TO BE D.I.P..
- (3) BRASS FLARED TEST FITTINGS ARE REQUIRED ON ALL TEST COCKS
- (4) BRASS OR COPPER UNION (INSTALL ON DISCHARGE SIDE).
- 5 HEIGHT REQUIREMENTS FOR ASSEMBLIES (12" MIN.18 " MAX.).



# **GENERAL NOTES**

- 1. CONTACT THE TOWN OF GILBERT BACKFLOW PREVENTION DEPARTMENT FOR THE MOST CURRENT LIST OF APPROVED BACKFLOW PREVENTION ASSEMBLIES.
- 2. ASSEMBLY SHALL BE APPROVED BY U.S.C. FOUNDATION FOR CROSS CONNECTION AND HYDRAULIC RESEARCH.
- 3. ABOVE GROUND INSTALLATIONS SHALL BE PROTECTED BY GUARD POSTS. SEE DETAIL GIL-359.
- 4. ASSEMBLY SHALL BE INSTALLED LEVEL AND NOT IN A FLOOD PLAIN.
- 5. ASSEMBLY SHALL BE TESTED PRIOR TO BEING ACCEPTED. (CONTACT T.O.G. BF DEPT. FOR LIST OF CERTIFIED TESTERS.).

- 6. ASSEMBLY SHALL NOT BE INSTALLED ANY CLOSER THAN 24" FROM A WALL OR OBSTRUCTION (IF TEST COCKS FACE THE WALL) OR 12" FROM A WALL (IF TEST COCKS FACE AWAY).
- 7. CONCRETE SUPPORT PAD SHALL BE A MINIMUM OF 18" WIDE BY LENGTH OF PRESSURE ASSEMBLY.
- 8. FINISHED GRADE UNDERNEATH ASSEMBLY SHALL BE AT 95% COMPACTION.
- 9. ASSEMBLY SHALL NOT BE PLACED FARTHER THAN 2' FROM THE WATER METER.
- 10. PIPE CONNECTION BETWEEN BACKFLOW ASSEMBLY AND METER SHALL BE OF TYPE "K" COPPER.
- 11. NO LESS THAN 36" OF COPPER SHALL EXIST DOWNSTREAM OF BACKFLOW.
- 12. EPA-SWDA SECTION 1417(d), AMENDED 1-4-2014: ALL (WET) DOMESTIC BRASS PLUMBING FIXTURES NOT LIMITED TO BACKFLOW PREVENTION ASSEMBLIES SHALL CONTAIN NO GREATER THAN <0.25% TOTAL LEAD CONTENT.

	STANDARD	2" AND SMALLER REDUCED	APPROVED	DETAIL NO.
GILBERT	DETAIL	PRESSURE PRINCIPLE ASSEMBLY	TOWN ENGINEER DATE	GIL-350

# LIST OF MATERIALS

- 1. APPROVED REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION DEVICE.
- 2. COAT WITH COAL TAR EPOXY (16 MILS.).
- 3. O.S. & Y. GATE VALVE (RESILIENT SEAT).
- 4. 90 ELBOW (FLANGED D.I.P. 3" THRU 10") OR (TYPE "K" COPPER FOR 2 1/2").
- 5. PIPE SPOOL (FLANGED D.I.P. 3" THRU 10") OR (TYPE "K" COPPER FOR 2 1/2").
- 6. FLANGED ADAPTER (WHEN REQUIRED).
- 7. 3" X 3" X 1/4" STEEL ANGLE (FOR 4" & LARGER ASSEMBLY ONLY) BOLT TO FLANGE EACH END WITH ONE BOLT.
- 8. BRASS FLARED TEST FITTINGS ARE REQUIRED ON ALL TEST COCKS
- 9. ADJUSTABLE PIPE SUPPORT (FOR 3" & LARGER ASSEMBLY ONLY).
- 10. TAMPER SWITCH (ON FIRE LINE ONLY).
- 11. ELECTRICAL CONDUIT FOR TAMPER SWITCH (ON FIRE LINE ONLY).

(4) FLOW (11)-(9)(9) FINISH GRADE -CONCRETE SUPPORT AND CONCRETE PAD (FOR 3" & LARGER) CITY SERVICE LINE-THRUST BLOCK PER 48" MIN MAG STD, DET, 380 48" MIN. OR TO METER VAULT CUSTOMER SIDE

# **GENERAL NOTES**

- 1. CONTACT THE TOWN OF GILBERT BACKFLOW PREVENTION DEPT FOR THE LATEST LIST OF APPROVED BACKFLOW PREVENTION DEVICES.
- 2. ASSEMBLY SHALL BE APPROVED BY U.S.C. FOUNDATION FOR CROSS CONNECTION AND HYDRAULIC RESEARCH.
- 3. FOUR (4) TEST COCKS SHALL BE INSTALLED AS PER U.S.C.. TEST COCKS SHALL BE FITTED WITH BRASS FLARED TEST FITTINGS.
- 4. ABOVE GROUND INSTALLATIONS SHALL BE PROTECTED BY GUARD POSTS. SEE DETAIL GIL-359.

- 5. COPPER FITTINGS SHALL BE CONNECTED WITH LEAD-FREE SOLDER JOINTS.
- 6. CONCRETE SUPPORT PAD SHALL BE MIN. 12" WIDE BY LENGTH OF PRESSURE ASSEMBLY.
- 7. FINISHED GRADE UNDERNEATH BACKFLOW PREVENTION ASSEMBLIES SHALL BE 95% COMPACTION.
- 8. ASSEMBLY TO BE PAINTED TAN OR TO MATCH BUILDING.

	STANDARD	2 1/2" AND LARGER REDUCED	APPROVED	DETAIL NO.
GILBERT	DETAIL	PRESSURE PRINCIPLE ASSEMBLY	TOWN ENGINEER DATE	GIL-35I















		DEEDEVELOPED			
GILBERT	STANDARD DETAIL	RECLAIMED MANUAL SHUTOFF VALVE	APPROVED	DATE	DETAIL NO.

		ROBEDEVELOPED			
GILBERT	STANDARD DETAIL	RECLAIMED VALVE LIDS	APPROVED	DATE	DETAIL NO. GIL-715

	TOBEDEVELOPED			
GILBERT DETAIL	RECLAIMED WATER METERS	TOWN ENGINEER	DATE	DETAIL NO.

	TOBEDEVELOPED		
STANDARD GILBERT DETAIL	RECLAIMED AIR/VACUUM RELIEF VALVES	APPROVED	DETAIL NO. GIL-730

	TOREDEVELOPED
GILBERT DETAIL	RECLAIMED AUTOMATED TURNOUTS       APPROVED       Detail No.         TOWN ENGINEER       Date       GIL-740







CLEARANCE TO SIGNAL HEADS ON MAST ARM

0015	MAST AR	M	PO	SITIC	N	OF F	IEAD
POLE	LENGTH		1			2	3
25'			17	.15'	1	7.64'	-
Q	30'		17	.15'	1	B.27°	-
	35'		17	.15'	1	<b>8.27</b> °	-
40'			17	.15'	1	8.27'	18.06'
R	45'	45'		.15'	1	7.64'	18.02'
	50'	50'		.15'	1	8.27'	18.27'
000 5	MAST ARM		PO	SITIO	N	of He	AD
PULE	LENGTH	•	1	2		3	4
	55'	17.15		18.2	7'	18.27	- 1
W	60'	17.	15'	18.2	7'	18.27	17.70
	65'	17.	15'	18.2	7'	18.27	18.27

THE CLEARANCE TO THE SIGNAL HEADS ARE MEASURED FROM THE TOP OF THE POLE FOUNDATION TO THE BOTTOM OF THE SIGNAL ASSEMBLY L. THE BOTTOM OF THE SIGNAL BACKPLATES.

#### CONSTRUCTION NOTE

 $( \ )$ 

GILBERT

THE SIGN AT DISTANCE 18 FEET FROM MAST ARM FOR 65 FOOT MAST ARM SHALL BE INSTALLED ONLY IF TYPE 'R' OR TYPE 'Q' HEAD IS INSTALLED AT THE TIP OF THE MAST ARM.

**STANDARD** 

DETAIL

\* THE SIDE MOUNTED TYPE 'Q' HEAD MOUNTED ON THE SIDE OF THE POLE IS AT AN ANGLE OF 50° TO 70° FROM THE PLANE OF THE PAPER.

\*\* THE TYPE 'F' HEADS CLOSEST TO THE POLE FOR THE 45 FT AND 50 FT. MAST ARMS ON THE 'R' POLE ARE MOUNTED BETWEEN THE BOTTOM TWO LENSES OF THE SIGNAL HEAD I.e. AT A HEIGHT OF 19.25" FROM THE BOTTOM OF THE BACK-PLATE.

\*\*\* THE SIDE MOUNTED PEDESTRIAN HEADS ARE MOUNTED WITH THE HEADS FACING APPROXIMATELY 90° WITH RESPECT TO EACH OTHER.

40' THRU
THRU 55' SPANS

TYPE Q, R, & W

"Q", "R", & "W" POLE DETAILS	-	TOWN ENGINEER	DATE	GIL-802
	Α	APPROVED		DETAU ΝΟ
10 CA	AMERA	CCTV CAMERA	2.20	30.0
9 AN	NTENNA	ETHERNET ANTENNA	1.70	10.0
8 SIG	GN	ILLUMINATED STREET NAME SIGN	21.20	183.0
7 PE	ED SIGNAL	L DUAL PEDESTRIAN SIGNAL	5.40	46.0
6 SIG	GNAL	12"- 3 SECTION WITH BACKPLATES	8.50	49.0
5 SE	ENSOR	ADVANCE RADAR DETECTOR	1.00	8.0
4 PR	RE-EMPT	EMERGENGY VEHICLE DETECTION	0.10	2.0
3 CA	AMERA	VIDEO DETECTION CAMERA-6' RISER	2.00	22.0
2 SIG	GN	TRAFFIC SIGN	7.89	18.0
1 SIG	GNAL	12"- 5 SECTION WITH BACKPLATES	12.90	81.0
	DEVICE	DESCRIPTION	PROJ. AR (FT <sup>2</sup> )	EA WEIGHT (LBS)
			8801.48	









- 1. PHASE 2 IS ALWAYS NORTHBOUND REGARDLESS OF STREET CLASSIFICATION.
- 2. VIDEO DETECTION SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE MATERIALS AND CONSTRUCTION SHALL COMPLY WITH TOG STANDARD SPECIFICATIONS FOR VIDEO DETECTION. THE CONTRACTOR SHALL VERIFY MOUNTING LOCATIONS WITH TOWN OF GILBERT PRIOR TO INSTALLATION.
- 3. ALL CAMERAS SHALL BE MOUNTED WITH 6' EXTENSION BRACKETS ON THE SIGNAL MAST ARM UNLESS PRIOR PERMISSION IS GRANTED BY THE TOWN OF GILBERT.
- 4. DETAILS ON EQUIPMENT SPECIFIED IN TRAFFIC SIGNAL PLANS.



	STANDARD		APPROVED		DETAIL NO.
GILBERT	DETAIL	STANDARD VIDEO DETECTION DETAIL	TOWN ENGINEER	DATE	GIL-823













HOLD DOWN BOLT DETAIL

**STANDARD** 

DETAIL

Gilbert

### GENERAL NOTES:

1. ALL DIMENSIONS ARE IN INCHES.

- 2. ALL BOXES SHALL BE MADE OF A HIGH DENSITY REINFORCED CONCRETE MATERIAL WITH END AND SIDE KNOCKOUTS, AND NON-SETTLING SHOULDERS TO MAINTAIN GRADE. ALL BOXES SHALL BE MANUFACTURED WITH APPROXIMATE DIMENSIONS AS SHOWN.
- 3. ALL BOXES SHALL HAVE AN ETCHED POLYETHYLENE FACE WITH AN ULTRAVIOLET INHIBITOR ANCHORED IN CONCRETE.
- 4. ALL BOXES SHALL BE CHRISTY OR APPROVED EQUAL.
- 5. COVER LETTERING SHALL BE 1" LETTERS CAST IN STANDARD MARKINGS "TRAFFIC SIGNALS".
- 6. REFER TO GIL-842 FOR PROPER INSTALLATION.
- 7. ALL PULL BOX LIDS SHALL BE CHRISTY "FIBRELYTE" OR APPROVED EQUAL. CONCRETE LIDS SHALL NOT BE USED.





- 1. PULLING IRONS SHALL BE CAST INTO EACH CORNER OF THE BOTTOM OF VAULT.
- ALL NEW VAULTS SHALL BE FURNISHED WITH RACKS AND HOOKS INSTALLED. 2.
- 3. VAULT SHALL BE INSTALLED WITH A LOCKING LID WITH SEAL BETWEEN WALL & COVER ASSEMBLY.
- TERM-A-DUCT (OR APPROVED EQUAL) SHALL ACCEPT A 4" DIA. PVC 4. CONDUIT. UNLESS OTHERWISE SPECIFIED.
- VAULT AND LID SHALL BE RATED FOR HS20-44 LIVE LOADING. 5.
- 6. ALL POWER AND COMMUNICATION CABLES SHALL BE TAGGED WITH CABLE IDENTIFICATION.
- 7. \*TOWN OF GILBERT FIBER OPTIC\* SHALL BE THE TITLE EMBOSSED ON THE LID.
- 8. LOCKING LID W/SEAL BETWEEN WALL AND COVER ASSEMBLY.
- SQUARE LID SHALL BE H20 GALVANIZED HINGED 36" X 36" CLEAR 180 DEGREE OPENING. DOOR SHALL BE TORSION SPRING ASSISTED WITH RECESSED LIFTING HANDLE WITH STAINLESS STEEL PENTA BOLT AND CAM LOCK.
- 10. VAULT SHALL BE PLACED ON A MINIMUM DEPTH OF 24" WASH AGGREGATE.

#### **DESIGN CRITERIA:**

LIVE LOAD	HS 20-44 TRUCK LOADING
EQUIVALENT LATERAL EARTH PRESSURE	30 P.S.F. (DRY) 36 P.S.F. (SATURATED)
DEPTH: (GROUND SURFACE TO TOP OF MANHOLE)	AT GRADE
MINIMUM SOIL BEARING Capacity	2,000 P.S.F.

#### **DESIGN SPECS:**

CONCRETE COMPRESSIVE STRENGTH SHALL BE BASED ON 28 DAY TEST AGE AND SHALL REACH F'C OF 6,000 P.S.I. (DRY CAST).

REINFORCING STEEL GRADE 60 60,000 P.S.I. WELDED WIRE FABRIC ASTM A185 60,000 P.S.I.

#### DESIGN CODES:

AMERICAN CONCRETE INSTITUTE (ACI) 318-39.

ASTM C857-82 MINIMUM STRUCTURAL DESIGN LOADING FOR UNDERGROUND - PRECAST CONCRETE UTILITY STRUCTURES.

AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) HB-15TH EDITION.

#### **GENERAL NOTES:**

TOWN ENGINEER

- ALL JOINTS BETWEEN CONCRETE UNITS SHALL BE SEALED WITH A HIGH 1. QUALITY SEALANT TO ASSURE WATERTIGHT INTEGRITY.
- 2. ALL REINFORCEMENT STEEL TO HAVE EQUAL COVER UNLESS OTHERWISE NOTED.
- WITH PRIOR APPROVAL FROM THE TOWN OF GILBERT, THE CONTRACTOR MAY 3. INSTALL 3'-6" X 3'-6" HANDHOLE-NO FLOOR W/36" SQ. HINGED COVER VAULT OR APPROVED EQUAL.

DATE





4. Minimum SDR of innerducts shall be 11.0.

NOTE:

- 5. The unsupported bend radius for innerducts shall be per ASTM D3035.
- 6. Third party vaults shall take measures to ensure drainage to prevent buildup of water and drainage into TOG vault.
- 7. Vault access shall be sealed at all access points to maintain watertight integrity.
- 8. Third party requirements for pull boxes, cables, and associated equipment shall be determined by owner.

	TYPICAL THIRD PARTY	APPROVED		DETAIL NO.
GILBERI		TOWN ENGINEER	DATE	



1. IF USED FOR TRAFFIC SIGNAL CONDUIT, USE 90 DEGREE SWEEP WITH A MINIMUM 24" RADIUS. FOR FITTINGS SEE GIL-842.

2. FOR ITS CONDUIT, USE 45 DEGREE SWEEP WITH A MINIMUM 48" RADIUS. FOR FITTINGS SEE GIL-841.

	STANDARD		APPROVED		Detail No.
GILBER		PVC TO HDPE CONDULT CONNECTION	TOWN ENGINEER	DATE	GIL-846
## CONDUCTOR COLOR CODING CRITERIA

## IMSA CABLE 19-1, #14 AWG SOLID, 4 CONDUCTOR & 7 CONDUCTOR

SIGNAL HEADS OUTBOARD & FAR LEFT					
7 - CONI	7 - CONDUCTOR CABLE				
BASIC	SIGNAL				
COLOR INTERVAL					
RED RED					
BLACK YELLOW					
GREEN GREEN					
ORANGE YELLOW ARROW					
BLUE GREEN ARROW					
WHITE	WHITE VEH. COM				
WHT/BLK TR	VEH. COM				

	4 SECTION SIGNAL HEADS OUTBOARD & FAR LEFT (FYA)			
	7 - CONDUCTOR CABLE			
	BASIC SIGNAL COLOR INTERVAL			
	RED	RED ARROW		
	BLACK YELLOW ARROV			
	GREEN GREEN ARROW ORANGE SPARE BLUE SPARE			
	WHITE VEH. COM			
	WHT/BLK TR FY ARROW			
	SIGNAL HEADS INBOARD & SIDEMOUNT			

PEDESTRIAN HEADS					
4 - CONDUCTOR CABLE					
BASIC SIGNAL					
COLOR INTERVAL					
RED DON'T WALK					
GREEN WALK					
WHITE PED. COM.					
BLACK SPARE					

SIGNAL HEADS INBOARD & SIDEMOUNT					
4 - CONDUCTOR CABLE					
BASIC SIGNAL					
COLOR INTERVAL					
RED RED					
BLACK YELLOW					
GREEN GREEN					
WHITE VEH. COM					

PEDESTRIAN HEADS					
4 - CONDUCTOR CABLE					
COLOR CALL OUT					
RED PUSH BUTTON					
WHITE P.B. COM					
GREEN SPARE					
BLACK SPARE					

THE CABLE SHALL BE TAGGED TO INDICATE PHASE.

NOTE:

GEL FILLED WIRE NUTS SHALL BE USED FOR SPLICING CONDUCTORS.

ALL NEUTRALS SHALL BE SPLICED TOGETHER WITH A SPLIT BOLT WIRE CONNECTOR AND ELECTRICAL TAPED WHITE COVERING SPLIT BOLT.

	IMSA CABLE	E 19-1, #14 /	AWG, 25 CON	IDUCTOR	
		CONDUCTOR COLOR		SIGNAL	
CABLE #1	CABLE #2	BASIC COLOR	TRACER STRIPE	INTERVAL	
		RED	WHITE	RED ARROW	
Ø1 OR	Ø5 OR	BLACK	WHITE	YELLOW ARROW	
OVERLAP C	OVERLAP D FY ARROW	GREEN	WHITE	GREEN ARROW	
		BLACK	WHITE/RED	FLASHING YELLOW ARROW	
		RED		RED	
Ø2	Ø6	ORANGE		YELLOW	
		GREEN		GREEN	
		BLACK	RED	RED ARROW	
Ø3 OR	Ø7 OR	ORANGE	RED	YELLOW ARROW	
FY ARROW FY ARROW		BLUE	RED	GREEN ARROW	
		WHITE	BLACK/RED	FLASHING YELLOW ARROW	
		RED	BLACK	RED	
Ø4	Ø8	ORANGE	BLACK	YELLOW	
		GREEN	BLACK	GREEN	
		BLUE		WALK	
Ø2 PED.	Ø6 PED.	BLACK		DON'T WALK	
		WHITE	BLACK	PUSH BUTTON	
		BLUE	WHITE	WALK	
Ø4 PED.	Ø8 PED.	RED	GREEN	DON'T WALK	
		WHITE	RED	PUSH BUTTON	
ALL PHASES	ALL PHASES	WHITE		P.B. COMMON	
		BLUE	BLACK	SPARE	
		ORANGE	GREEN	SPARE	
		RED	BLACK/WHITE	SPARE	
		GREEN	BLACK/WHITE	SPARE	

RED TAPE FOR SE TO NE RUN YELLOW TAPE FOR SE TO SW RUN GREEN FOR SW TO NW RUN BLUE FOR NW TO NE RUN

	STANDARD		APPROVED		DETAIL NO.
GILBERT	DETAIL	IMSA WIRE PHASE IDENTIFICATION	TOWN ENGINEER	DATE	GIL-850

NOTE:
PHASE 2 IS ALWAYS NORTHBOUND
REGARDLESS OF STREET CLASSIFICATION.

## PREEMPTION (PE) CHANNELS

PE Channel A = SB	Preemptor 3 (Ø6) GREEN TAPE
PE Channel B = WB	Preemptor 4 (Ø8) BLUE TAPE
PE Channel C = NB	Preemptor 5 (Ø2) RED TAPE
PE Channel D = EB	Preemptor 6 (Ø4) YELLOW TAPE

PREEMPTION					
4 CONDUCTOR CABLE					
BASIC SIGNAL					
COLOR INTERVAL					
YELLOW A,B,C,D					
ORANGE 26V					
BLUE GROUND					
BARE	BARE EARTH GROUND				

STANDARD

DETAIL

NOTE: PREEMPTION CABLE SHALL BE M913 STROBECOM DETECTOR CABLE OR APPROVED EQUAL.

	L	25 COND	UCTOR CA	BLE COLOR CODE MULTI-	PHASE
	25 Cond Tape	WIRE COLOR	PHASE	INDICATION	PHASE CHART COLOR
	Color	25 Cond	ductor Ring 1 wil	have 1 white tape on outer sheathin	g to identify
	<u>⊢</u>	RED/WHITE	Ø1	S/B LT - RFD	GREEN/WHITE
		BLACK/WHITE	Ø1	S/B LT - YELLOW	GREEN/WHITE
	Ø1	GREEN/WHITE	<u>ر</u> Ø1	S/B LT - GREEN	GREEN/WHITE
HBOUND		BLACK/WHITE-RED	Ø1	S/B LT - FY ARROW	GREEN/WHITE
CLASSIFICATION.			<i>a</i> 2		
			02	N/B THRU - RED	RED
		CREEN	02		RED
	Ø2	BLUE	02 Ø2	N/B PED - WALK	RED/ORANGE
	~ -	BLACK	Ø2 Ø2	N/B PED - DON'T WALK	RED/ORANGE
		WHITE/BLACK	Ø2	N/B PED PUSHBUTTON	RED/ORANGE/ORANGE
(PE) CHANNELS		BLACK/RED	Ø3	N/B THRU - RED	BLUE/WHITE
	103	ORANGE/RED	Ø3	N/B THRU - RED	BLUE/WHITE
Preemptor 3 (Ø6) GREEN TAPE		BLUE/RED	Ø3	N/B THRU - RED	BLUE/WHITE
Preemptor 4 (Ø8) BLUE TAPE		WHITE/BLACK-RED	03	N/B THRU - RED	BLUE/WHITE
Preemptor 5 (Ø2) RED TAPE		RED/BLACK	Ø4	E/B THRU - RED	YELLOW
Preemptor 6 (Ø4) YELLOW TAPE		ORANGE/BLACK	Ø4	E/B THRU - YELLOW	YELLOW
	$ \alpha_{1}\rangle$	GREEN/BLACK	Ø4	E/B THRU - GREEN	YELLOW
	04	BLUE/WHITE	Ø4	E/B PED - WALK	YELLOW/ORANGE
		RED/GREEN	Ø4	E/B PED - DON'T WALK	YELLOW/ORANGE
IPTION		WHITE/RED	Ø4	E/B PED PUSHBUTTON	YELLOW/ORANGE/ORANG
		WHITE	Ø2, Ø4	COMMON PB	
		BLUE/BLACK		SPARE	
OR CABLE		ORANGE/GREEN		SPARE	
SIGNAL		RED/BLACK-WHITE		SPARE	
SIGNAL		GREEN/BLACK-WHITE		SPARE	
INTERVAL		25 Cond	ductor Ring 2 wil	have 2 white tape on outer sheathin	g to identify
ABCD		RED/WHITE	Ø5	N/B LT - RED	RED/WHITE
A,D,C,D	Ø5	BLACK/WHITE	Ø5	N/B LT - YELLOW	RED/WHITE
26V		GREEN/WHITE	Ø5	N/B LT - GREEN	RED/WHITE
GROUND		BLACK/WHITE-RED	605	N/B L1 - FT TELLOW	RED/WHITE
		RED	Ø6	S/B THRU - RED	GREEN
AKTTUGKOUND		ORANGE	Ø6	S/B THRU - YELLOW	GREEN
		GREEN	Ø6	S/B THRU - RED	GREEN
	Ø6	BLUE	Ø6	S/B PED - WALK	GREEN/ORANGE
LE SHALL BE		BLACK	Ø6	S/B PED - DON'T WALK	GREEN/ORANGE
IDETECTOR		WHITE/BLACK	Ø6	S/B PED PUSHBUTTON	GREEN/ORANGE/ORANGE
/ED EQUAL.					
		BLACK/RED	Ø3	N/B THRU - RED	BLUE/WHITE
	Ø7		Ø3		BLUE/WHITE
			<u>603</u>		
		WITTE/DLAUK-KED	203		DLUE/WHITE
		RED/BLACK	Ø8	W/B THRU - RED	BLUE
		ORANGE/BLACK	Ø8	W/B THRU - YELLOW	BLUE
	Ø8	GREEN/BLACK	Ø8	W/B THRU - GREEN	BLUE
		BLUE/WHITE	Ø8	W/B PED - WALK	BLUE/ORANGE
		RED/GREEN	Ø8	W/B PED - DON'T WALK	BLUE/ORANGE
		WHITE/RED	Ø8	W/B PED PUSHBUTTON	BLUEORANGE/ORANGE
		WHITE	Ø6, Ø8	COMMON PB	
		BLUE/BLACK		SPARE	
		ORANGE/GREEN		SPARE	
		RED/BLACK-WHITE		SPARE	
		GREEN/BLACK-WHITE		SPARE	ad 0, 0 will be aids mount at
		Starting with Outboard (Fo	Dr R) Head 1 Col	or rape = Head 1, 2 Color rape = He	ad 2, 3 will be side mount etc.
		Q-i 25 Cond. will have Red tap	pe on S/E to N/E	corner, Yellow tape on S/E to S/W co	orner. Green tape S/W to N/W
	APP	ROVED	corne	, Drue tape IN/W to IN/E Corner	
IRE COLOR CODE AND IDENTIFIC		·			
	<u> </u>	TOWN ENG	INEER	DATE	—   GIL-851

DATE









6	STANDARD		APPROVED	DETAIL NO.
GILBERT	DETAIL	CONTROL CABINET FOUNDATION	TOWN ENGINEER DATE	GIL-872







NOTES:	<pre>-1"% 1% 4.36 MCHOR BOLTS 312-1/2"Ø BOLT CENTER 343 TIES OF 12" FINISHED GRADE * SCH. 40 PVC 8" BENDS 3000 PSI CONCRETE MAG STD 725 - 4#7 VERTS AND 5#3 TIES @13" O.C. - #3 TIE</pre>	
<ol> <li>REINF A615 GRADE 60 EXCEPT #3 GRADE 40.</li> <li>TOP OF FOUNDATION SHALL BE CROWNED <sup>1</sup>/<sub>4</sub> PER FOOT AND FINISHED WITH A SMOOTH SURFACE WITH A 1/2" ROUND EDGE.</li> <li>POLE FOUNDATION SHALL CURE FOR 72 HOURS BEFORE INSTALLING LIGHT POLES.</li> <li>ALL FINISHED POLE FOUNDATIONS SHALL BE 4" ABOVE GRADE.</li> <li>ANCHOR BOLTS SHALL BE FULLY GALVANIZED PER ASTM A-135.</li> <li>CONCRETE PLACEMENT SHALL FOLLOW MAG SPECIFICATIONS.</li> <li>DO NOT FREEFALL CONCRETE IN EXCESS OF 5".</li> <li>A VIBRATOR SHALL BUSED TO DISTRIBUTE CONCRETE &amp; REDUCE AIR VOIDS.</li> <li>MAXIMUM SLUMP SHALL NOT EXCEED 5".</li> <li>FOR FUSING &amp; GROUNDING SEE DETAILS GIL-941 AND GIL-942.</li> <li>*DEPTH OF FOUNDATION SHALL BE VERIFIED BY INSPECTOR PRIOR TO POURING.</li> <li>A LEVELING NUT SHALL BE PLACED BETWEEN TOP OF FOUNDATION AND BASE PLATE OF POLE.</li> <li>TOP OF FOUNDATION SHALL HAVE 4 STRUCK JOINTS EVENLY SPACED.</li> </ol>		
STANDARD DETAILCONCRETE FOUNDATION DETAIL	APPROVED DETAIL NO. TOWN ENGINEER DATE DETAIL NO. GIL-932	





NOTES:         PHYSICAL         SIZE       SEE DRAWING         WEIGHT       APPROX. 7 OZ. GROSS         CHASSIS       MOLDED PHENOLIC WITH 3 POLE         TWISTLOCK PLUG WITH CROSS       TUNKED POLYETHYLENE GASKET.         HOUSING       U.V. STABILIZED POLYPROPYLENE         WITH ACRYLIC WINDOW WITH       UITRAVIOLET INHIBITOR.         COLOR       DARK BRONZE OR BLUE         ELECTRICAL       SUPPLY VOLTAGE         SUPPLY VOLTAGE       105–277 VOLTS, 50/60HZ AC         RATINGS LOAD       1800VA MAX. SPST, N.C.         INRUSH CURRENT       130 AMPERES AT 120 VOLTS         GPERATING LEVELS       TURN ON AVERAGE 1FC2FC         TURN ON AVERAGE 1FC.       .2FC         RATIO AVERAGE 3       SUPNIC ON MAXIMUM 1.8FC ±         RATIO AVERAGE 3       SUPNIC ON TOOL POWER         3.2 WATTS, MAX. (2.75 AVERAGE) AT 240 VAC.       DIELECTRICAL STRENGTH 5 KV MIN. BETWEEN ANY CURRENT CARRYING PART AND METAL MOUNTING SURFACE.         LIGHT ARRESTOR       DELUXE-CONTROLLED TYPE EXPULSION         ENCLOSED 2.0 KV SPARK OVER MIN. TYPE 10,000 AMPS FOLLOW THROUGH         PHOTOCELL       HERMETICALLY SEALED CDS CELL, MINIMUM SURFACE.         LIGHT ARRESTAR       -65 DEGREES FAHRENHEIT TO +158 DEGREES FAHRENHEIT TO +158 DEGREES FAHRENHEIT         TIME DELAY       INSTA	BOTTOM VIEW
GILBERT DETAIL PHOTO CONTROL DETAIL	APPROVED DETAIL NO. TOWN ENGINEER DATE DETAIL NO.