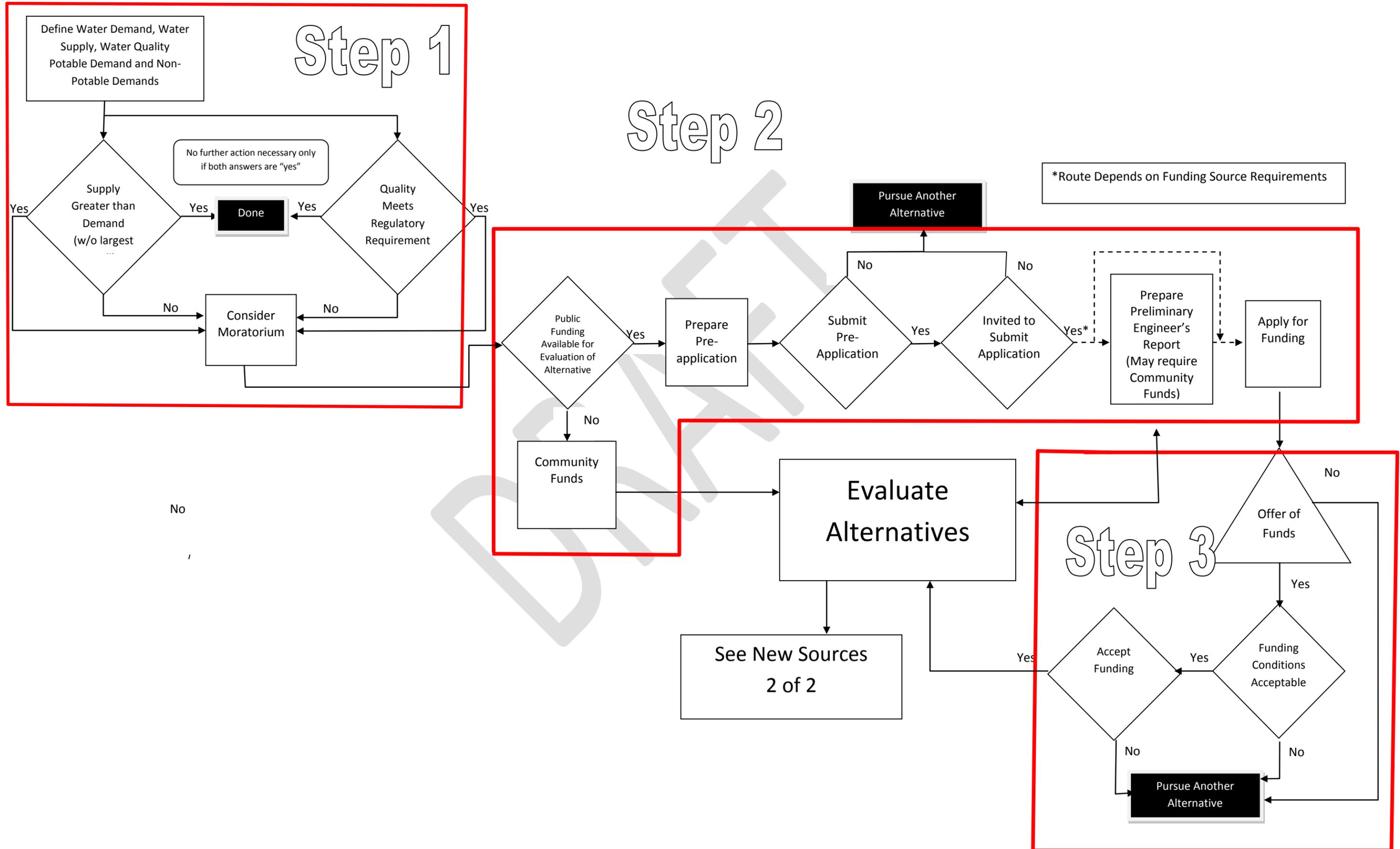


start

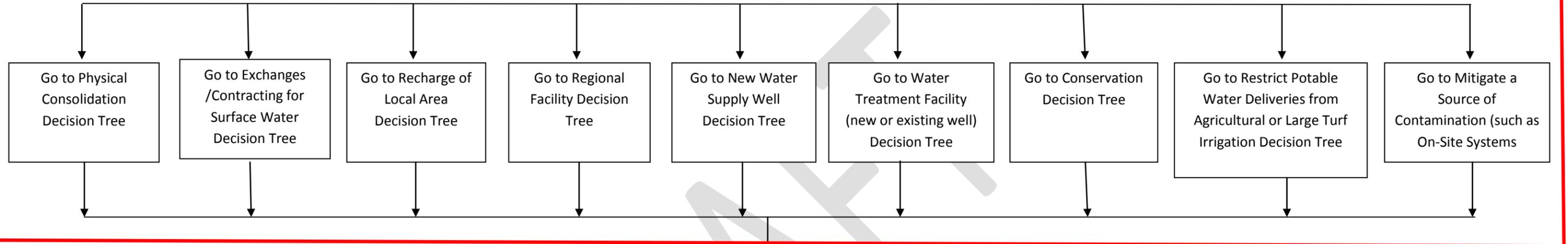
New Sources

Stratford PUD



See New Sources
1 of 2

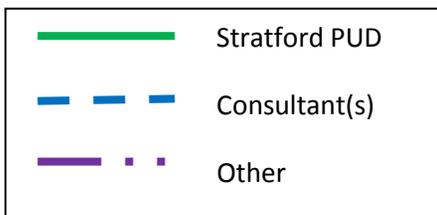
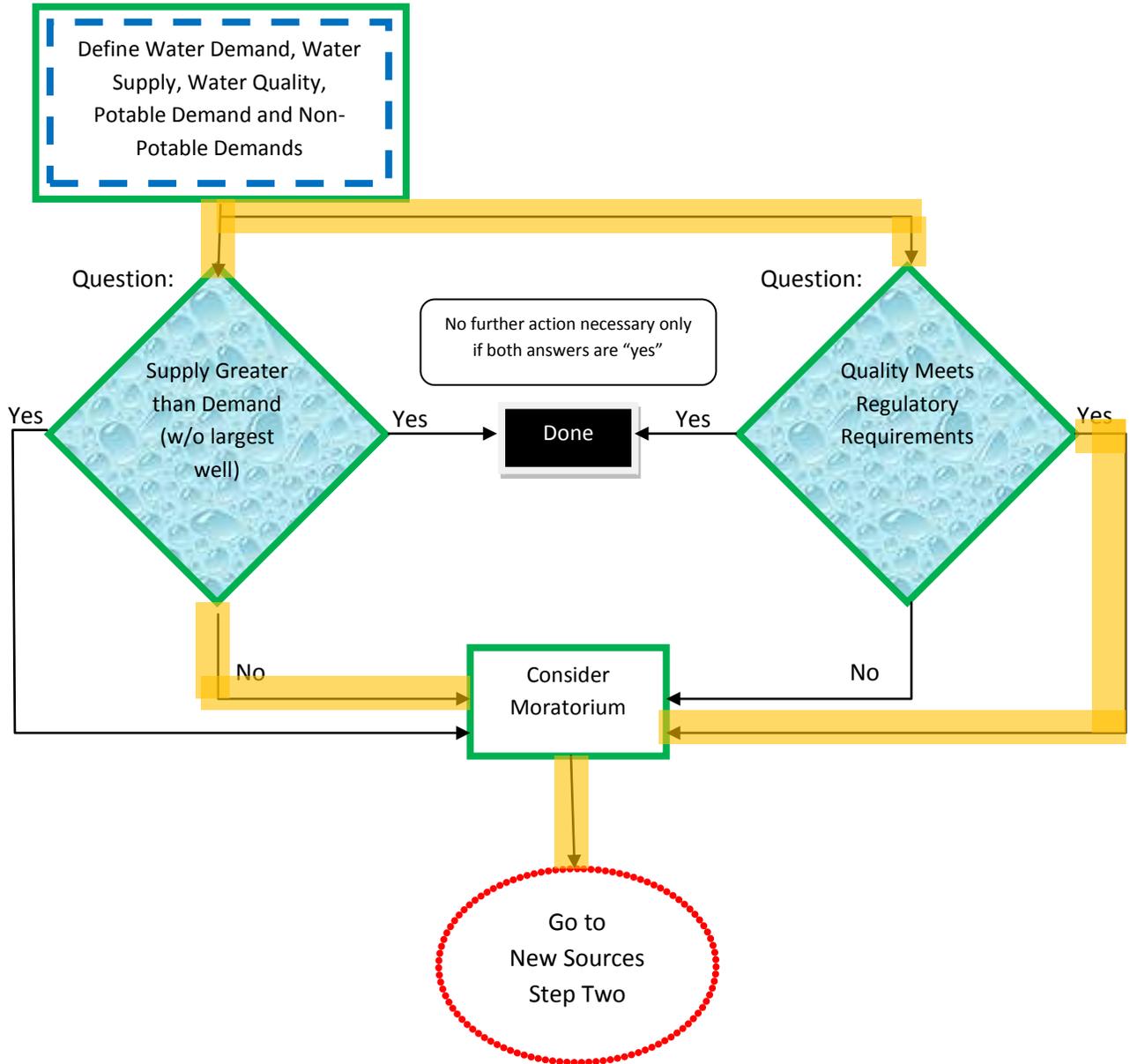
Step 4



Implement Approved Alternatives

Step 5

Stratford PUD New Sources Step One



Stratford PUD
New Sources
 Step One

Stratford PUD

Population; ± 1,300

Service Connections; ± 320

Water Rate; Metered, base rate \$13.00 per month regardless of meter size, includes 4,000 gallons, \$1.20 per 1,000 gallons over the 4,000 gallons

Average Monthly Bill - ??

FY 2012/2013 Budget (water only); \$144,100

FY 12/13 Year-to-Date Expenditures (water only); \$178,442

Distribution System Age; ± 50 years

Demand (GPM)

		Per Stratford
Max per day	344	620
Peak Hour	516	945

Capacity (GPM)

Well 5	500	1973	720'	perfs 420' – 720'
Well 6 ¹	400	1976	610'	perfs 400' – 610'
<u>Well 7²</u>	<u>500</u>	2005	1250'	perfs 660' – 1,170'
Total	1400			
	1000	if Well 6 is not used		
	500	if Well 5 if out of service		

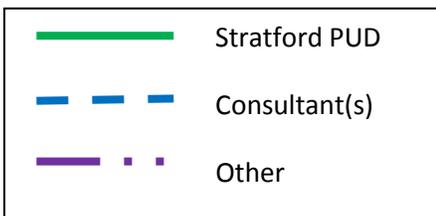
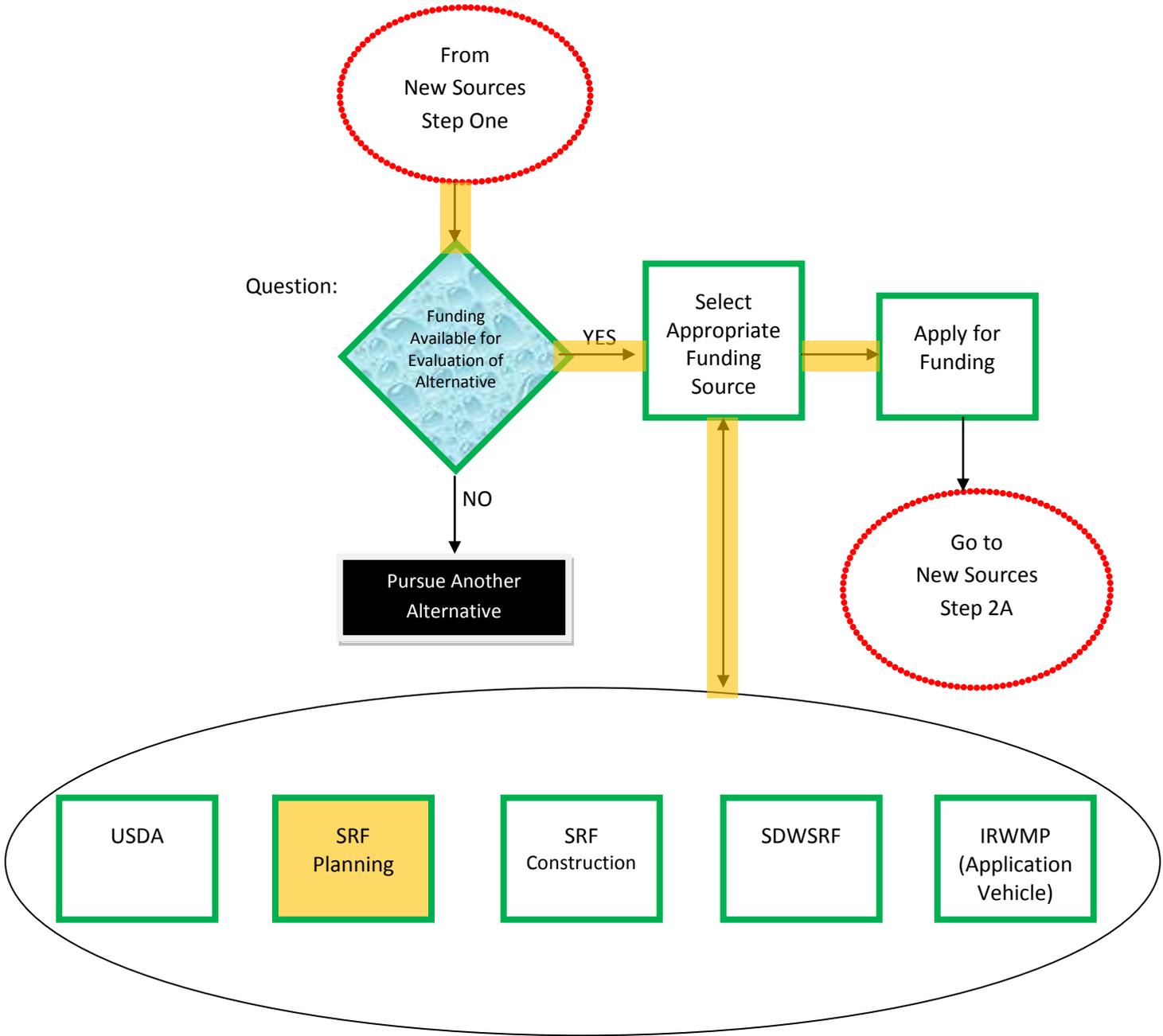
If Well 6 is Inactive or Standby, then system may not have capacity for Peak Hour.

Note¹ – Well 6 not used since 2006 (sand)

Note² – Well 7 – Methane. Test well not constructed

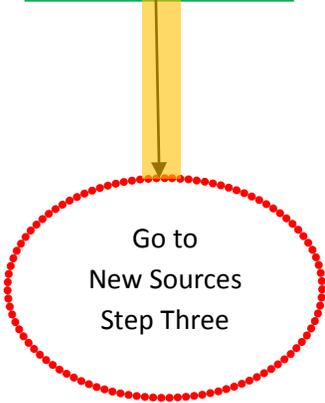
Continuous Chlorination

Stratford PUD New Sources Step Two



Stratford PUD
New Sources
Step Two A

Proposition 84
Funding
Application
Feasibility Grant
July 2013



Stratford PUD
New Sources
Step Two B

Apply for Funding
Universal pre-
application for
Water
Distribution
Improvements



Go to
New Sources
Step Three

Stratford PUD
New Sources
Step Two C

Step Two

Stratford PUD SDWSRF Pre Application Above Ground Storage Tanks August 2008

Prepared by: Keller & Wegley
Cost to Prepare:
Source of Funds: SDWSRF - \$200,000
Timeline of Preparation
Response to Application:

Stratford PUD SDWSRF Pre Application Odor Mitigation and Water Storage Project
February 2009

Prepared by: Keller & Wegley
Cost to Prepare:
Source of Funds: SDWSRF - \$750,000
Timeline of Preparation
Response to Application:

Stratford PUD SDWSRF Pre Application Well 7 Methane Reduction September 2009

Prepared by: Keller & Wegley
Cost to Prepare:
Source of Funds: SDWSRF - \$1,400,000
Timeline of Preparation
Response to Application:

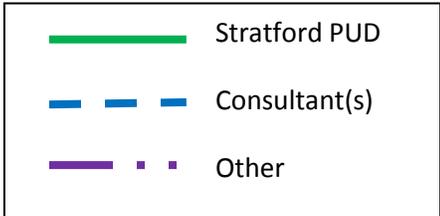
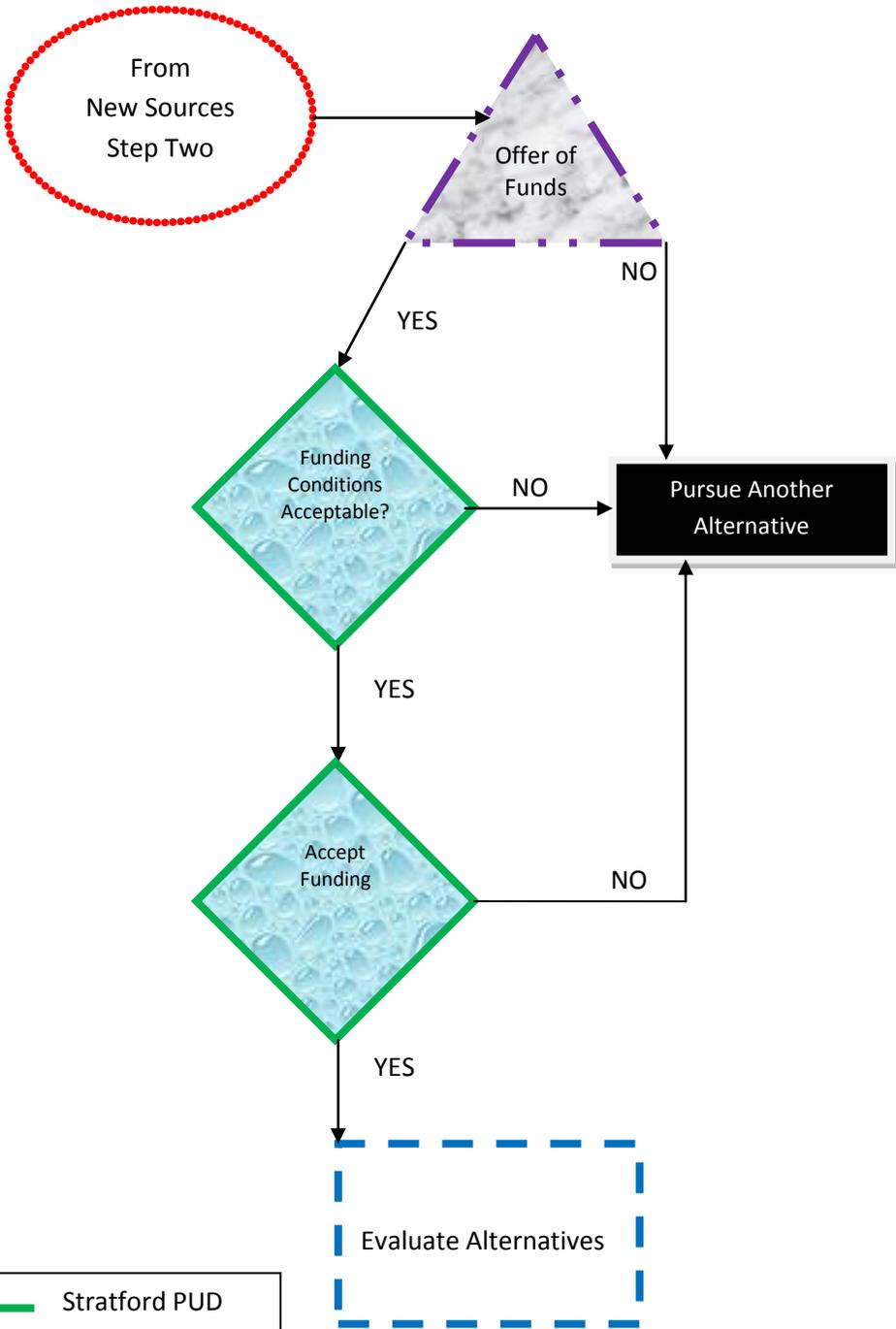
Stratford PUD SDWSRF Pre Application System Pressure and Source Capacity
Enhancement September 2009

Prepared by: Keller & Wegley
Cost to Prepare:
Source of Funds: SDWSRF - \$1,700,000
Timeline of Preparation
Response to Application:

Stratford PUD SDWSRF Pre Application Source Capacity Mitigation Project July 2013

Prepared by: Keller & Wegley
Cost to Prepare:
Source of Funds: SDWSRF - \$4,412,000
Timeline of Preparation
Response to Application:

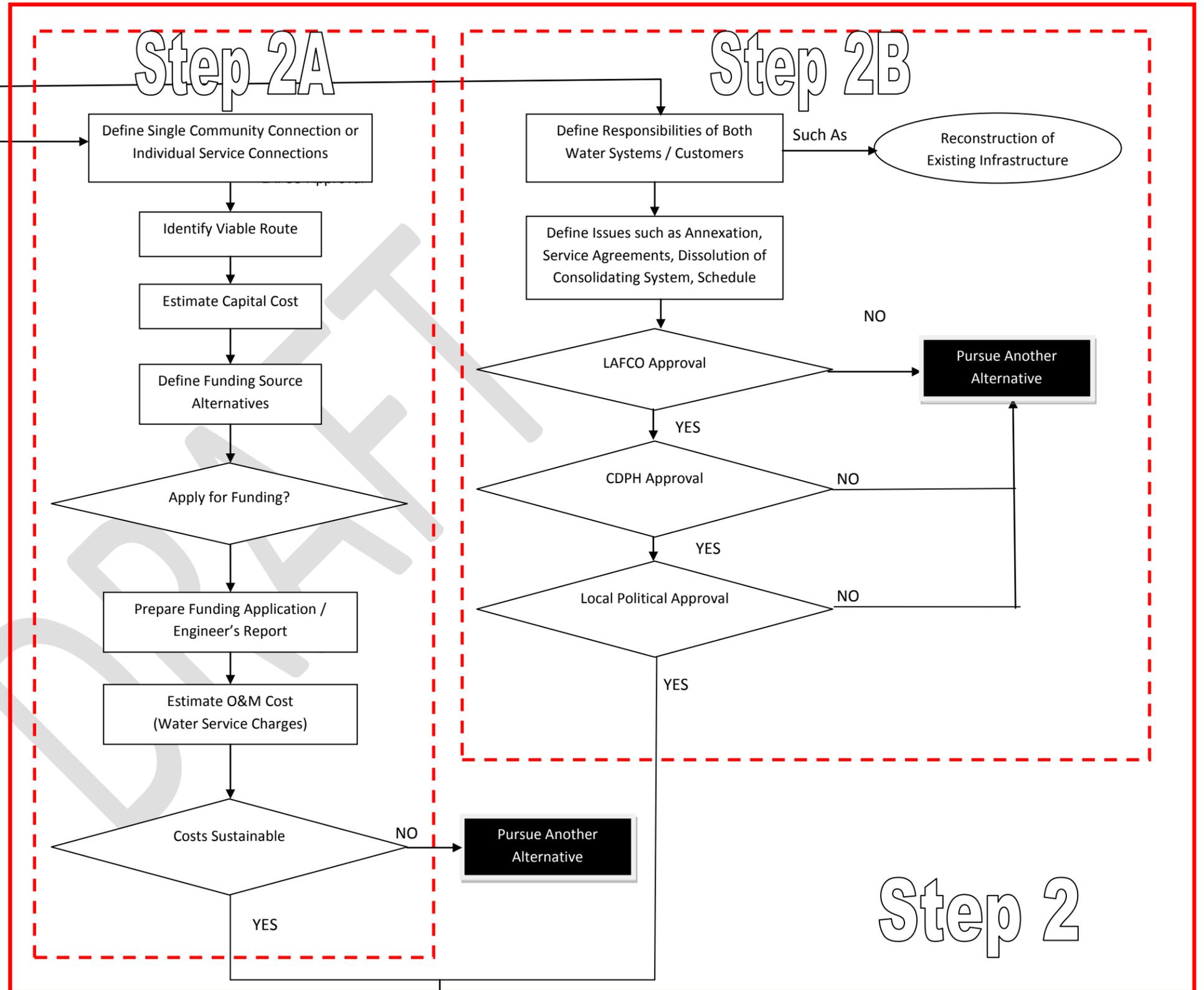
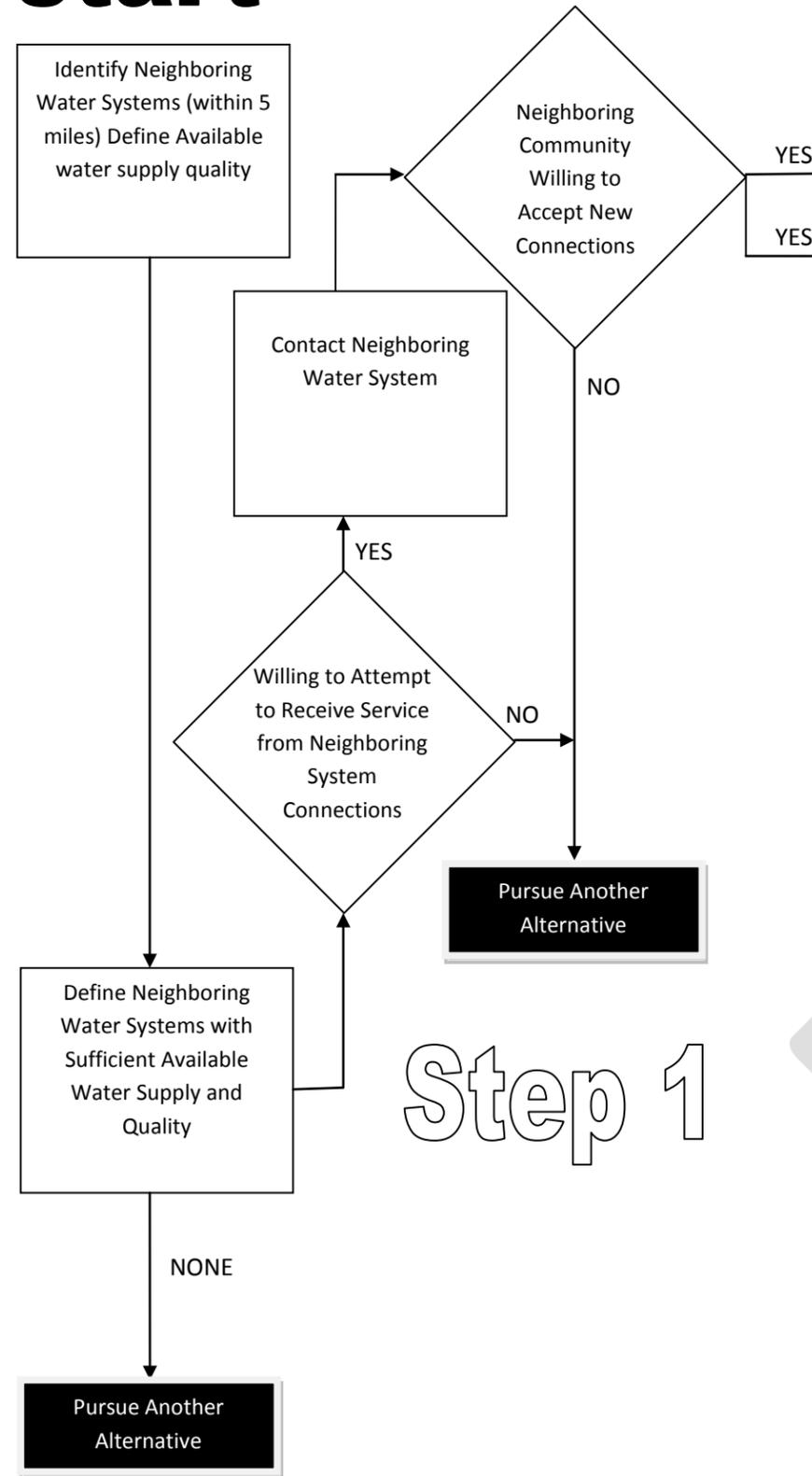
Stratford PUD
New Sources
Step Three



start

Physical Consolidation

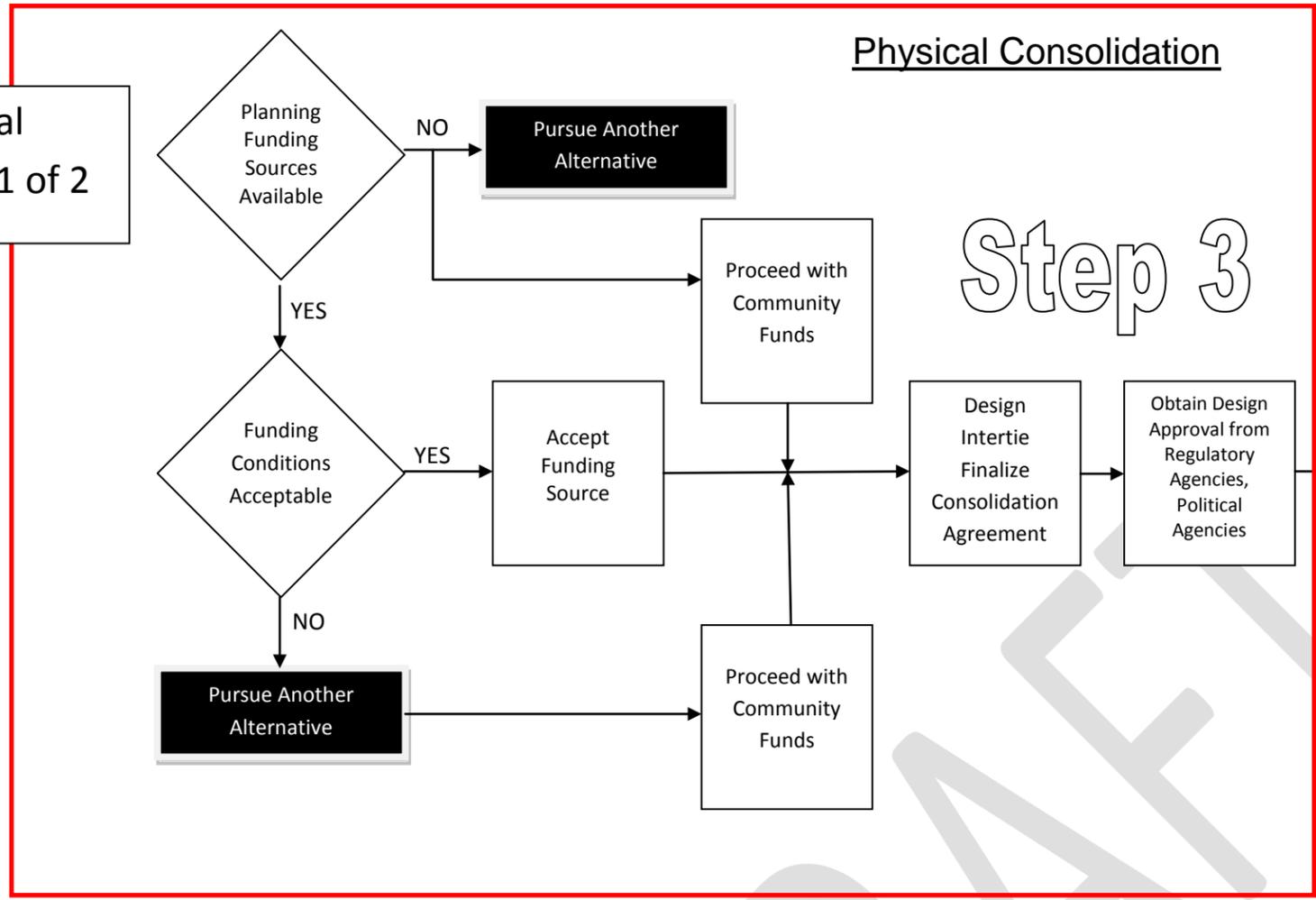
Stratford PUD



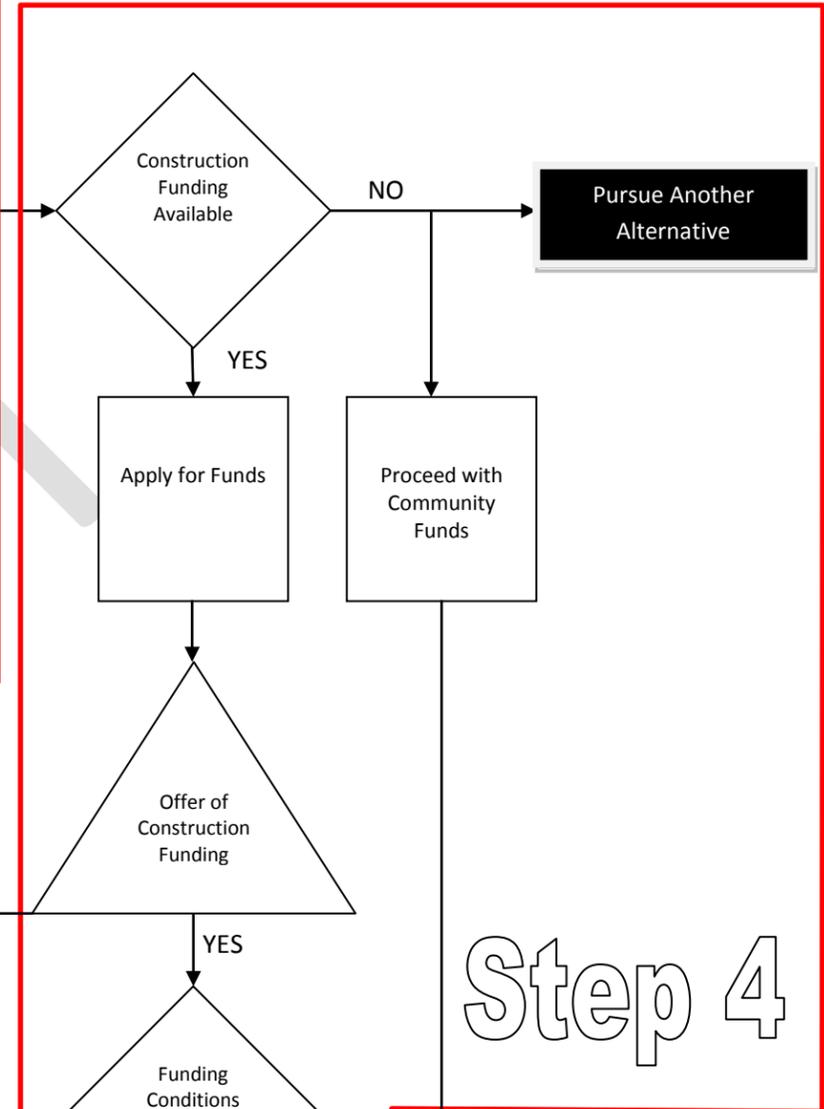
See Physical Consolidation 2 of 2

Physical Consolidation

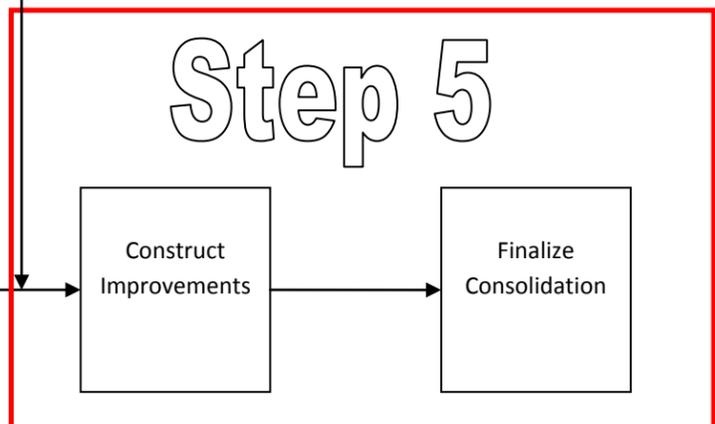
See Physical Consolidation 1 of 2



Step 3



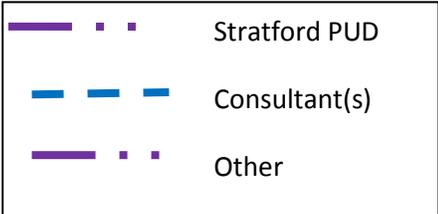
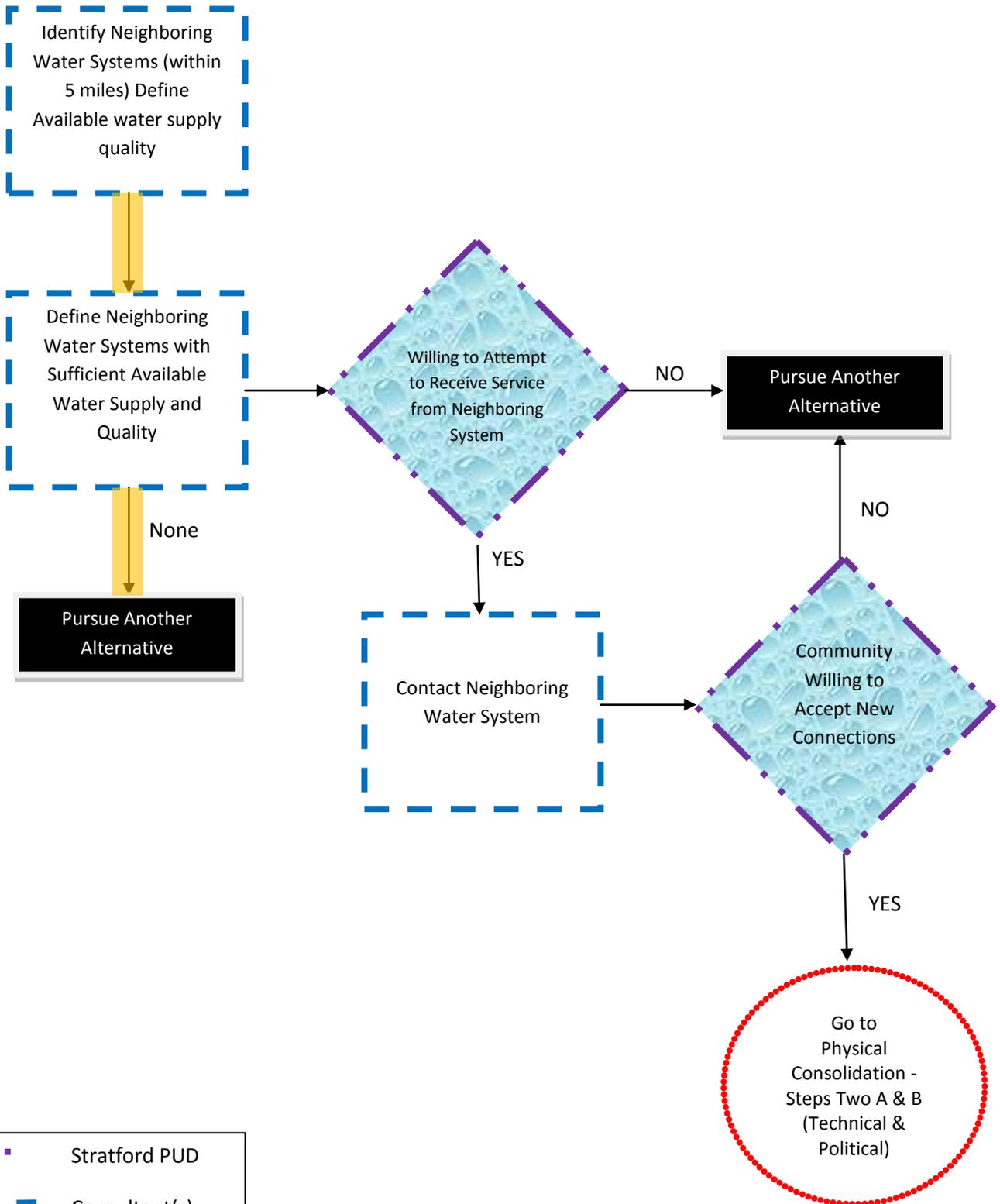
Step 4



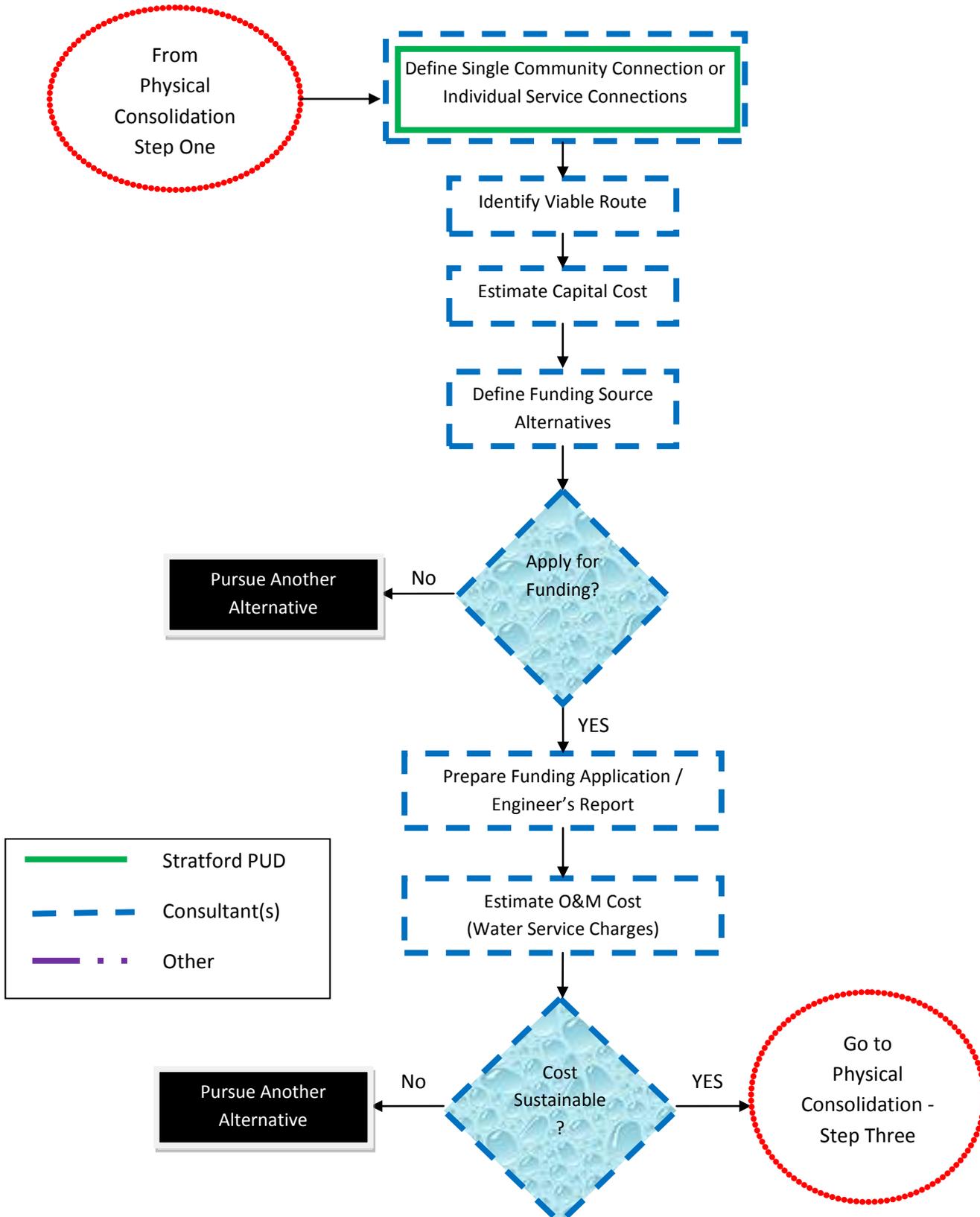
Step 5

DRAFT

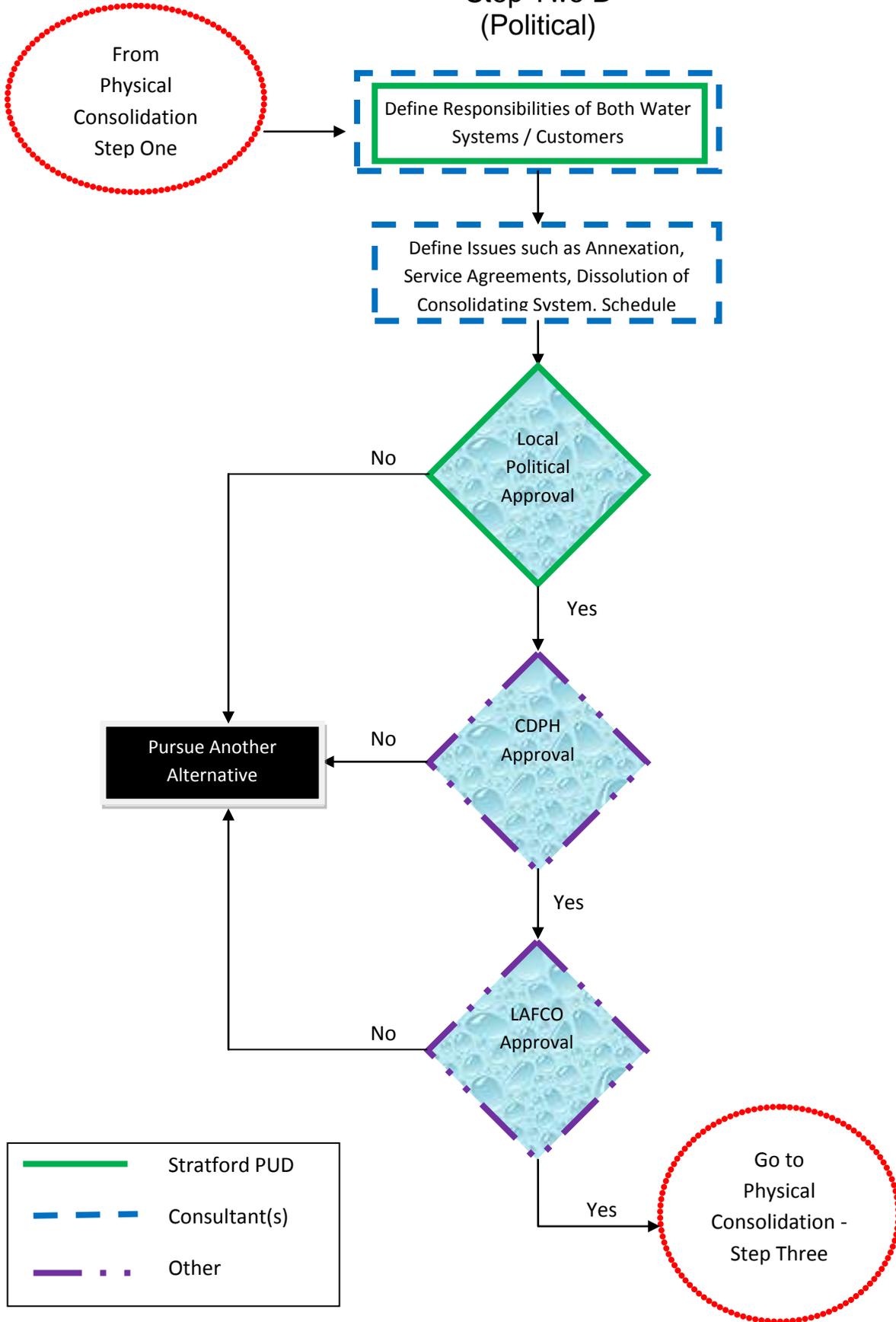
Stratford PUD Physical Consolidation Step One



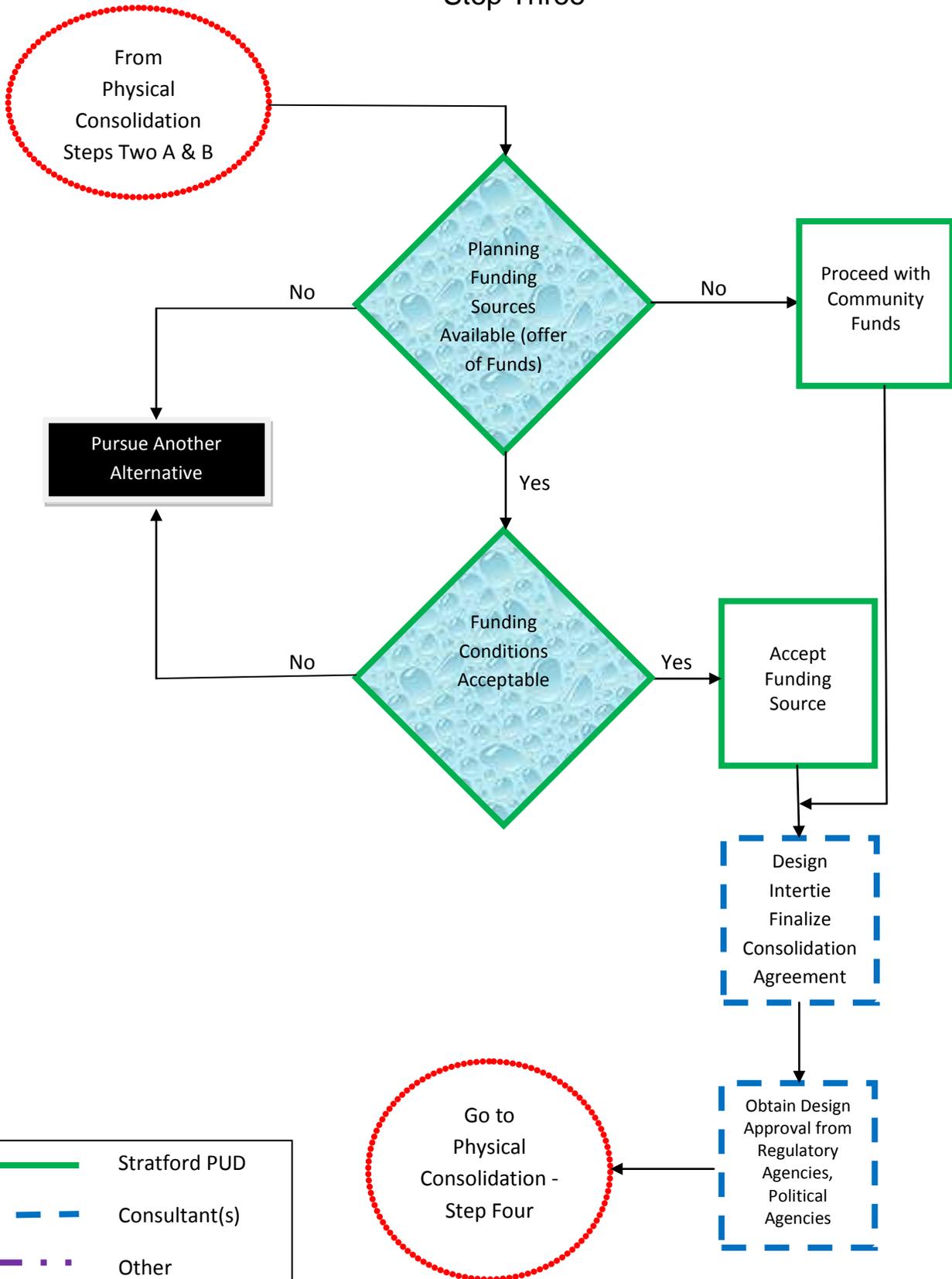
Stratford PUD Physical Consolidation Step Two A (Technical)



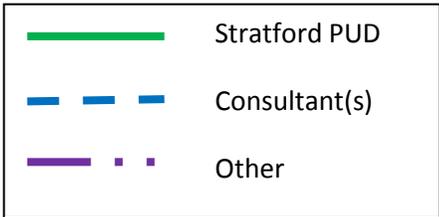
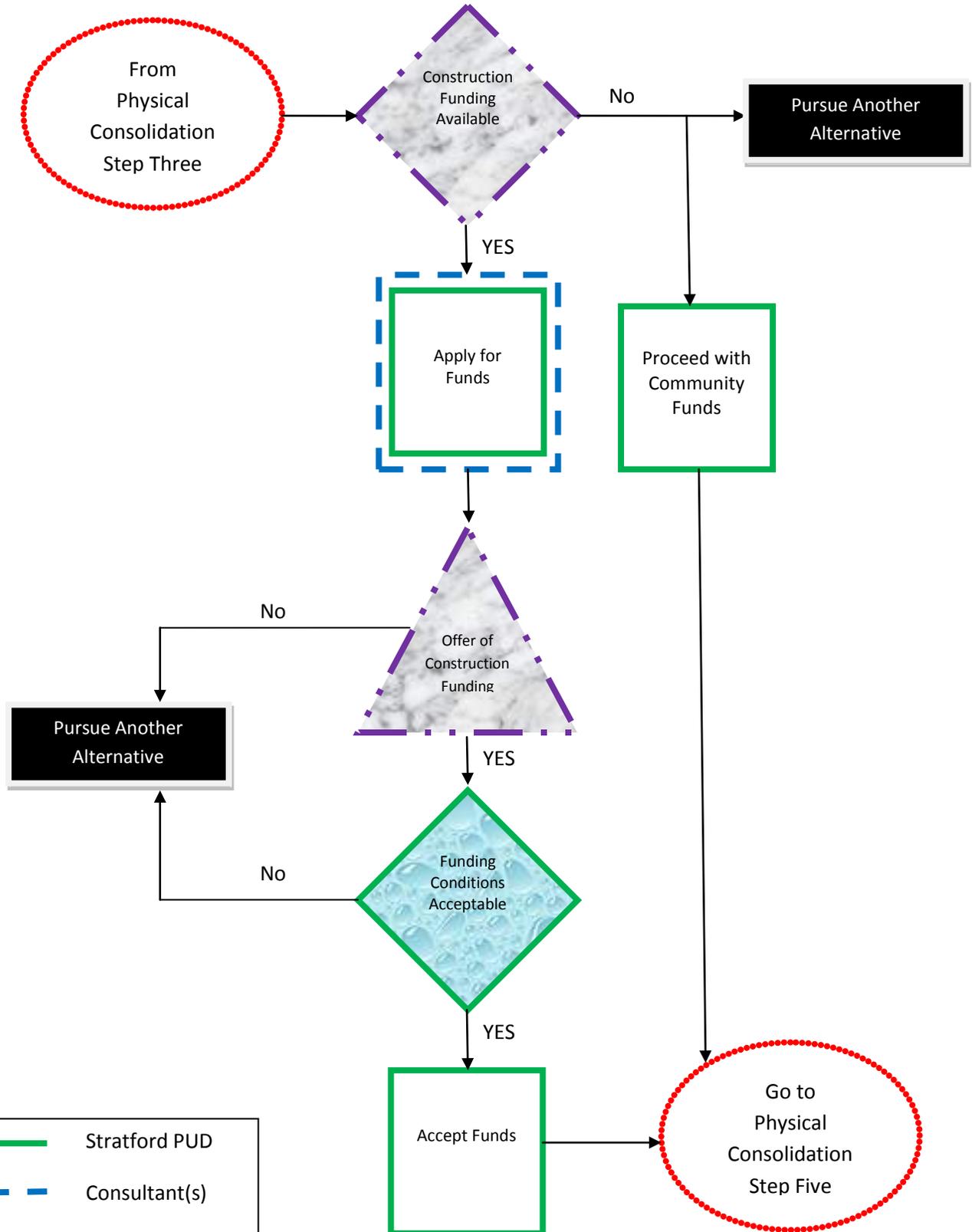
Stratford PUD Physical Consolidation Step Two B (Political)



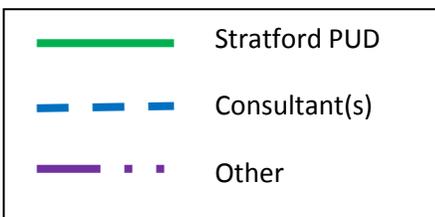
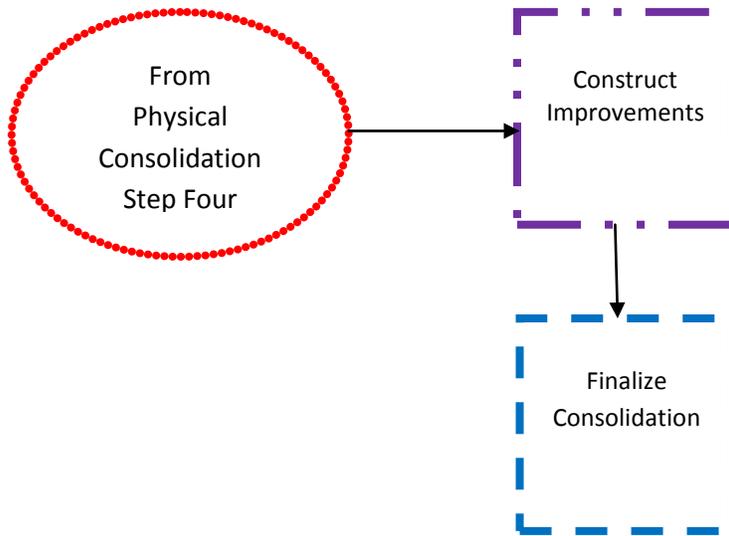
Stratford PUD Physical Consolidation Step Three



Stratford PUD Physical Consolidation Step Four



Stratford PUD
Physical Consolidation
Step Five



start

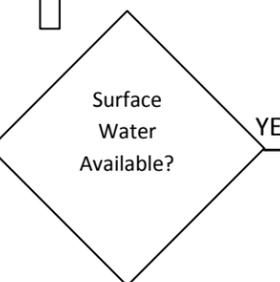
Step 1

Exchanges/Contracting for Surface Water

Stratford PUD

Identify Additional Source Water Supply Requirements

Investigate Availability of Surface Water Supplies

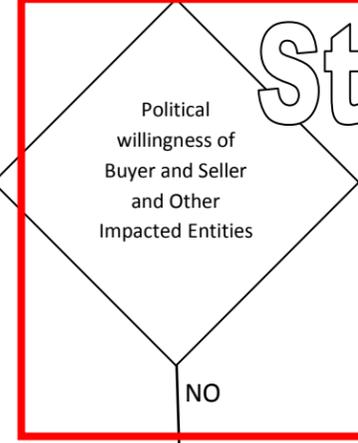


Confirm Direct Relationship between Mitigation Alternative and Contracted Water Supply

Identify Water Quality of Surface Water

Prepare Engineering Report to Define Alternatives, Capital Costs, Operation and Maintenance Costs.

Define Recommended Alternative



Step 4

Regulatory Approval (CDPH, Other)

Step 2a

Identify Conveyance Facilities (existing or Proposed) Necessary for each Source

Identify Potential Losses

Identify Reliability and Cost of Surface Water Supply

Identify Redundancy of Water Supply When Surface Water is not Available

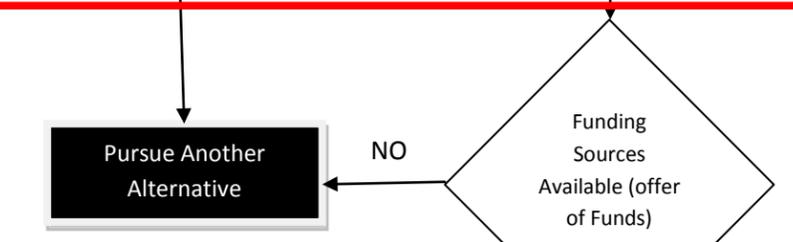
Pursue Another Alternative

Step 2b

Define Water Treatment Requirements (Existing; Modify Existing; Proposed Define Storage and Pumping Requirements

See Technical Solutions Pilot Study

Step 3



Step 5

Prepare Funding Application

Pursue Another Alternative

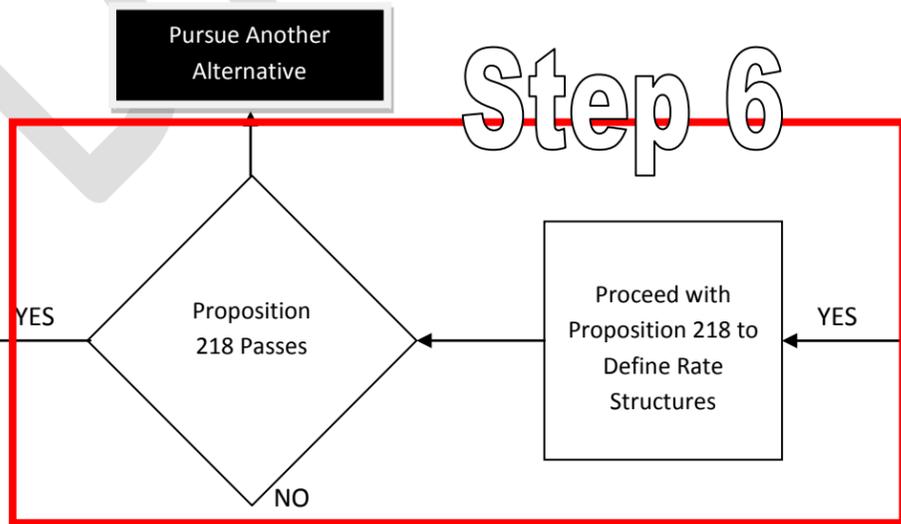
Pursue Another Alternative

Implement Surface Water Delivery and Treatment

Construct Improvements

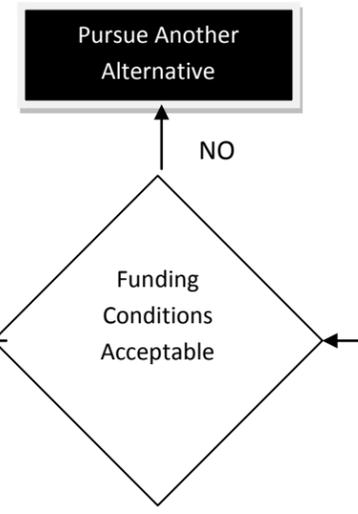
Finalize Agreement Design Improvements CEQA Compliance

Step 7



Step 6

Proceed with Proposition 218 to Define Rate Structures



Offer of Funds

YES

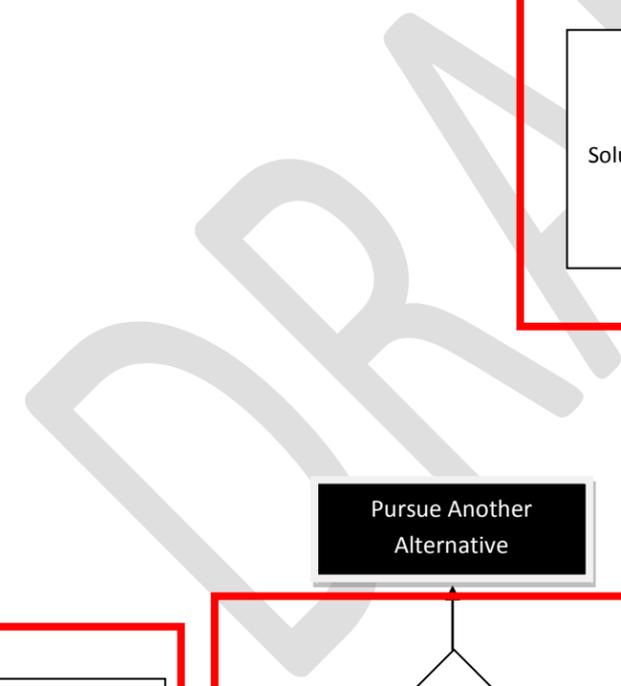
NO

YES

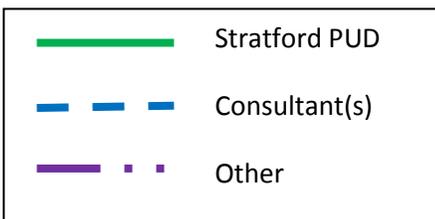
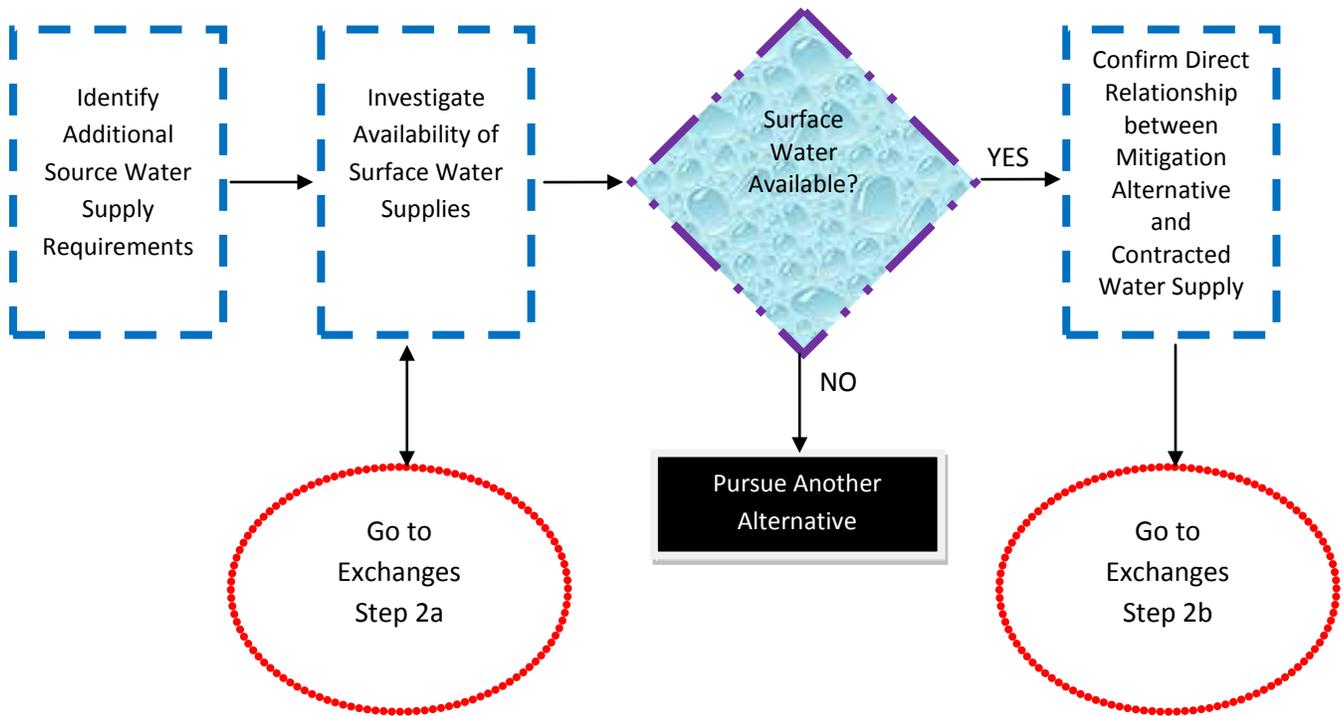
YES

NO

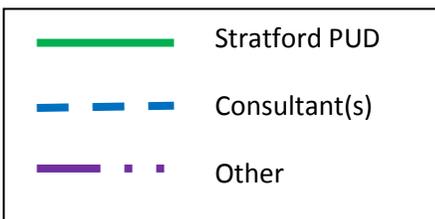
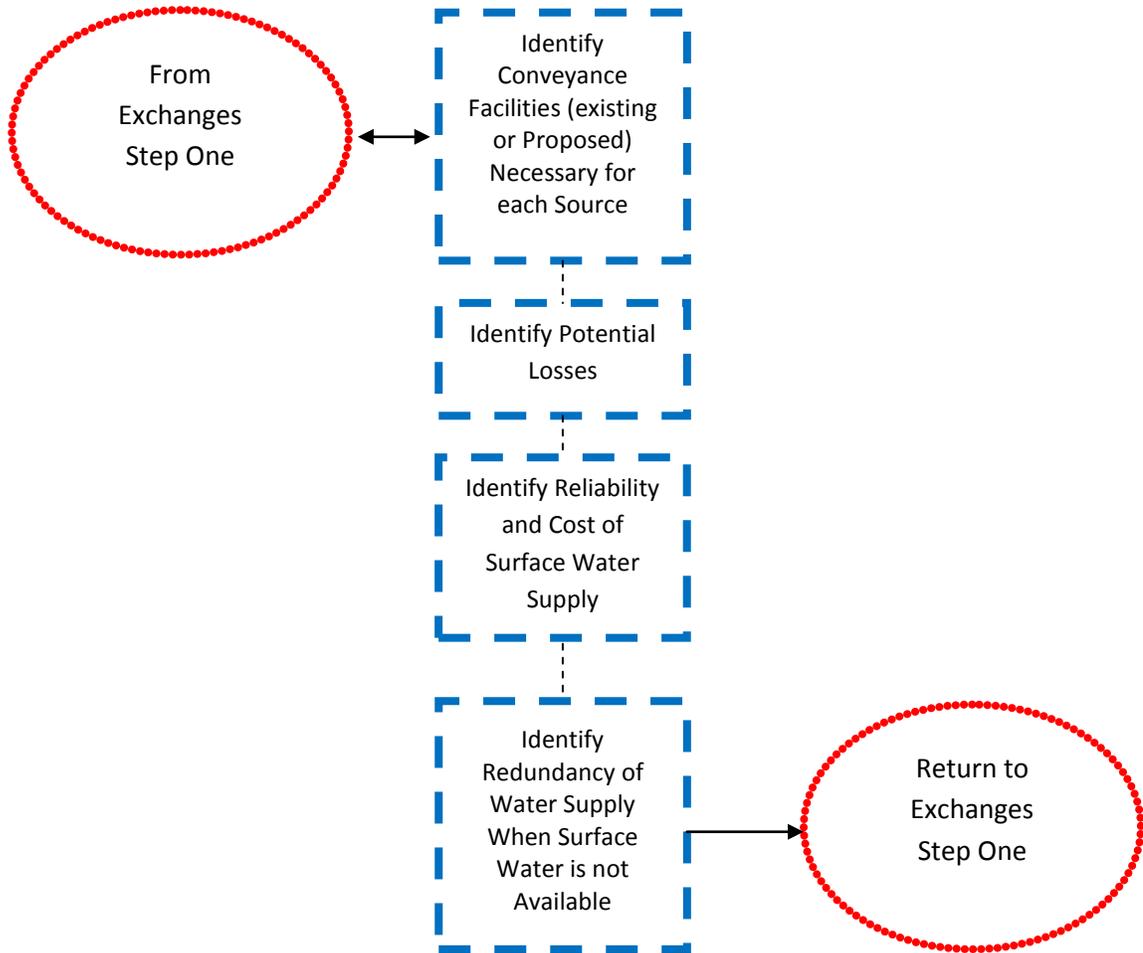
NO



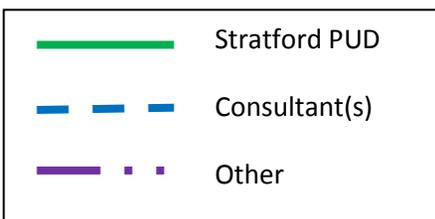
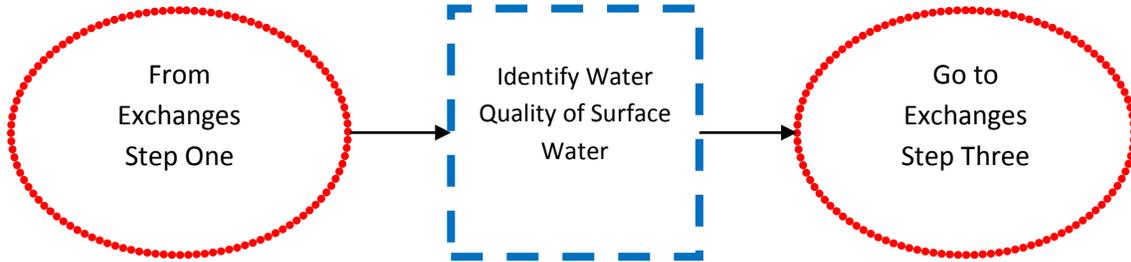
Stratford PUD
Exchanges/Contracting for Surface Water
Step One



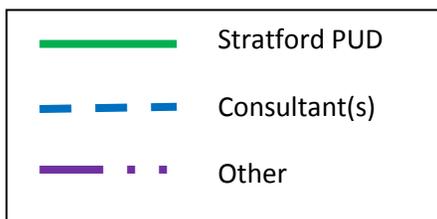
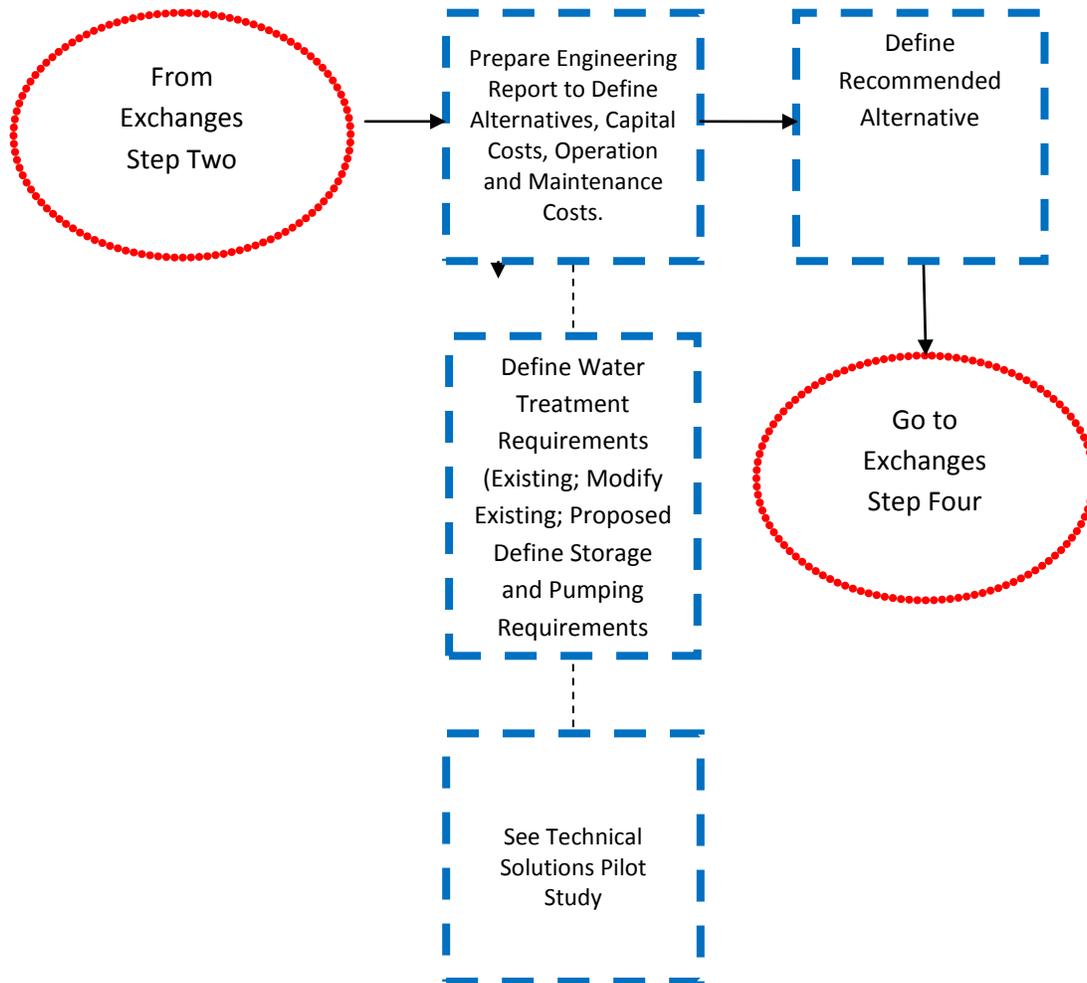
Stratford PUD
Exchanges/Contracting for Surface Water
Step Two a



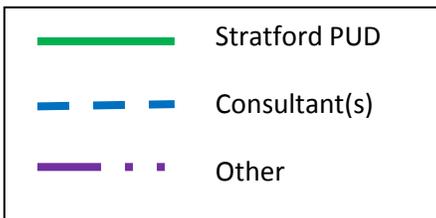
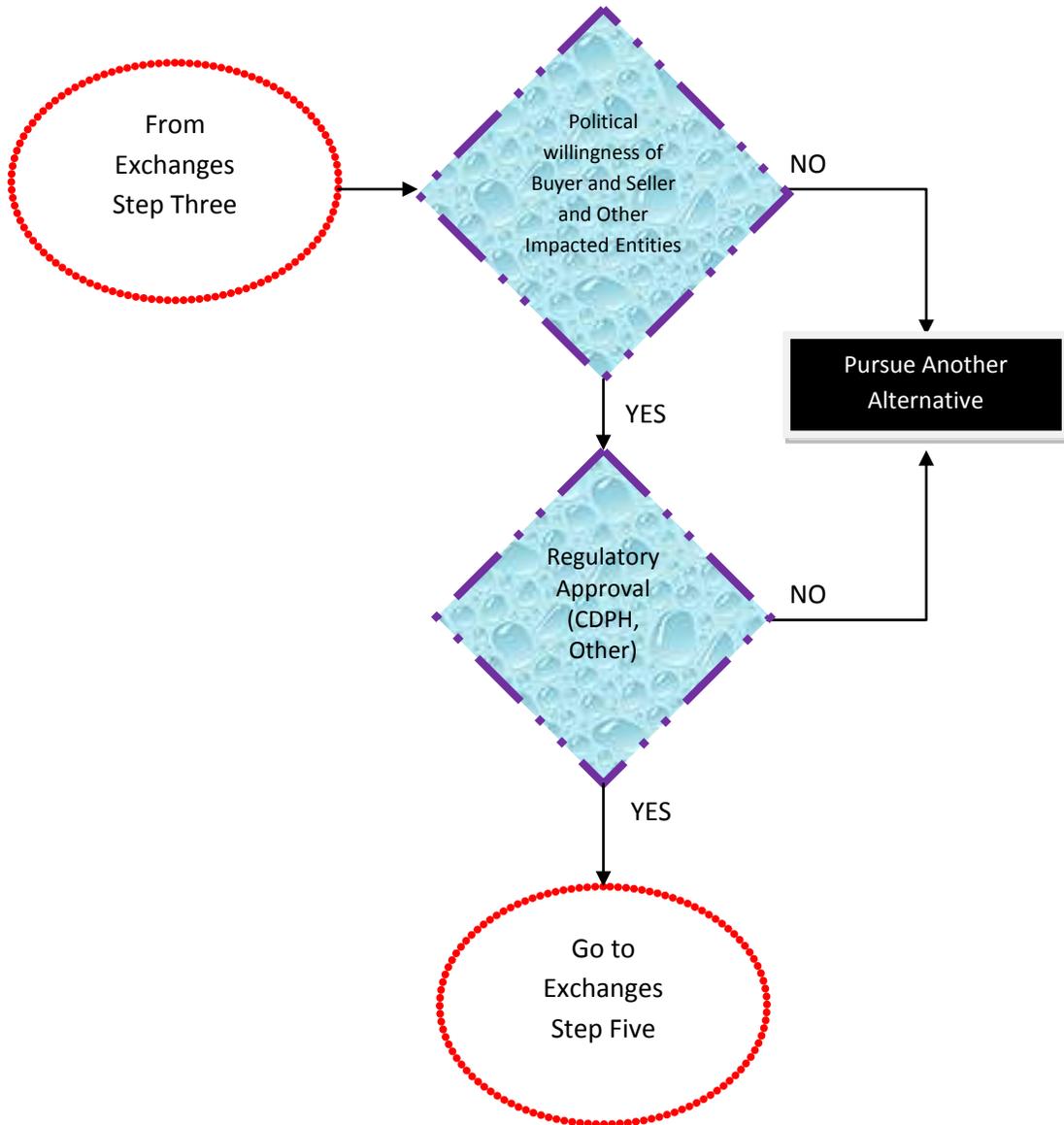
Stratford PUD
Exchanges/Contracting for Surface Water
Step Two b



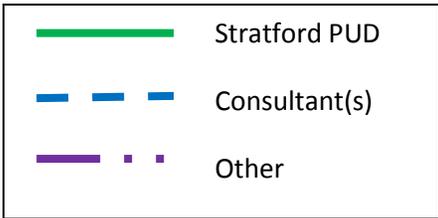
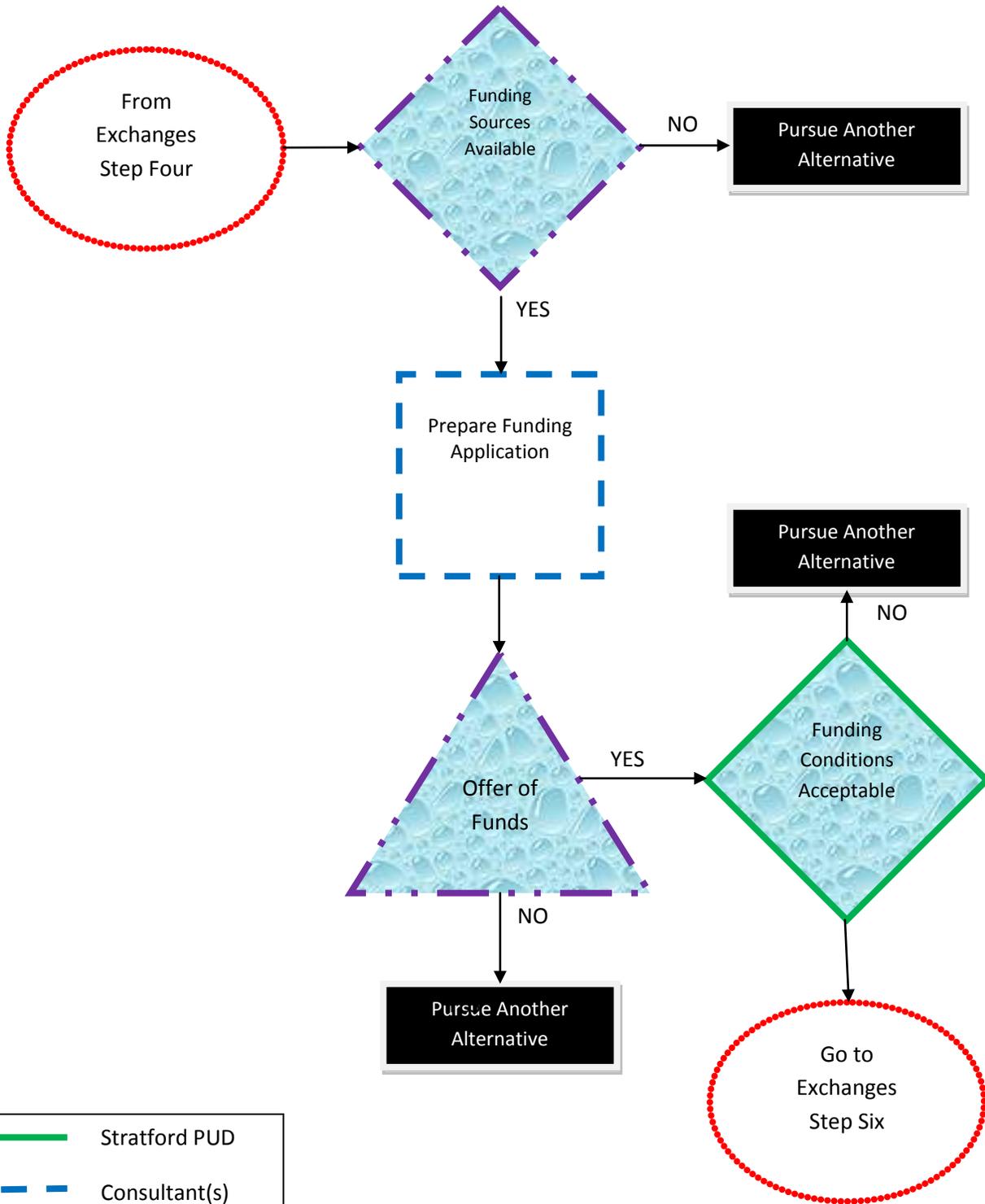
Stratford PUD
Exchanges/Contracting for Surface Water
Step Three



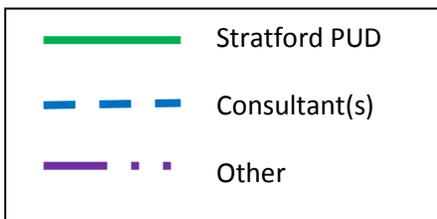
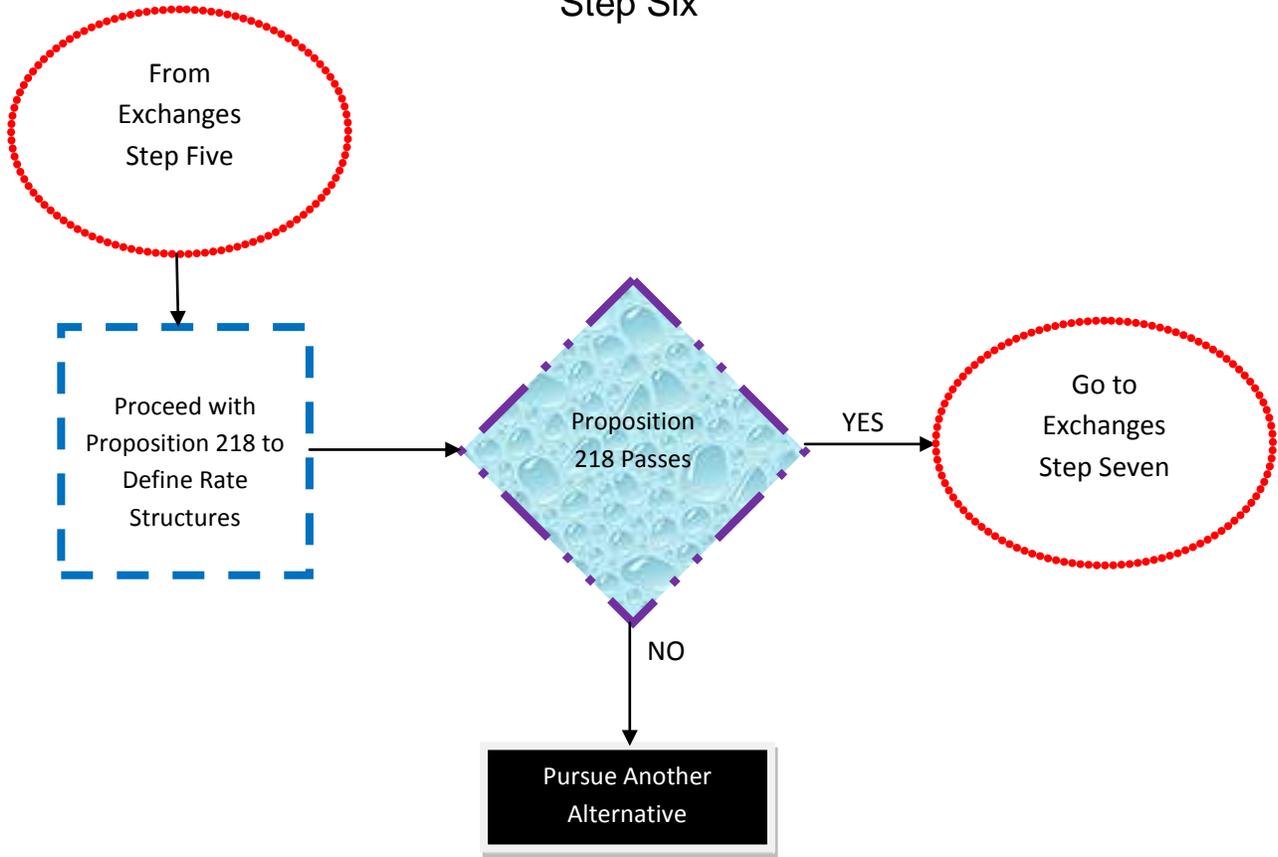
Stratford PUD
Exchanges/Contracting for Surface Water
Step Four



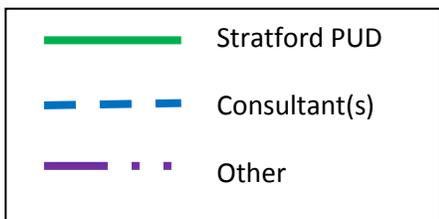
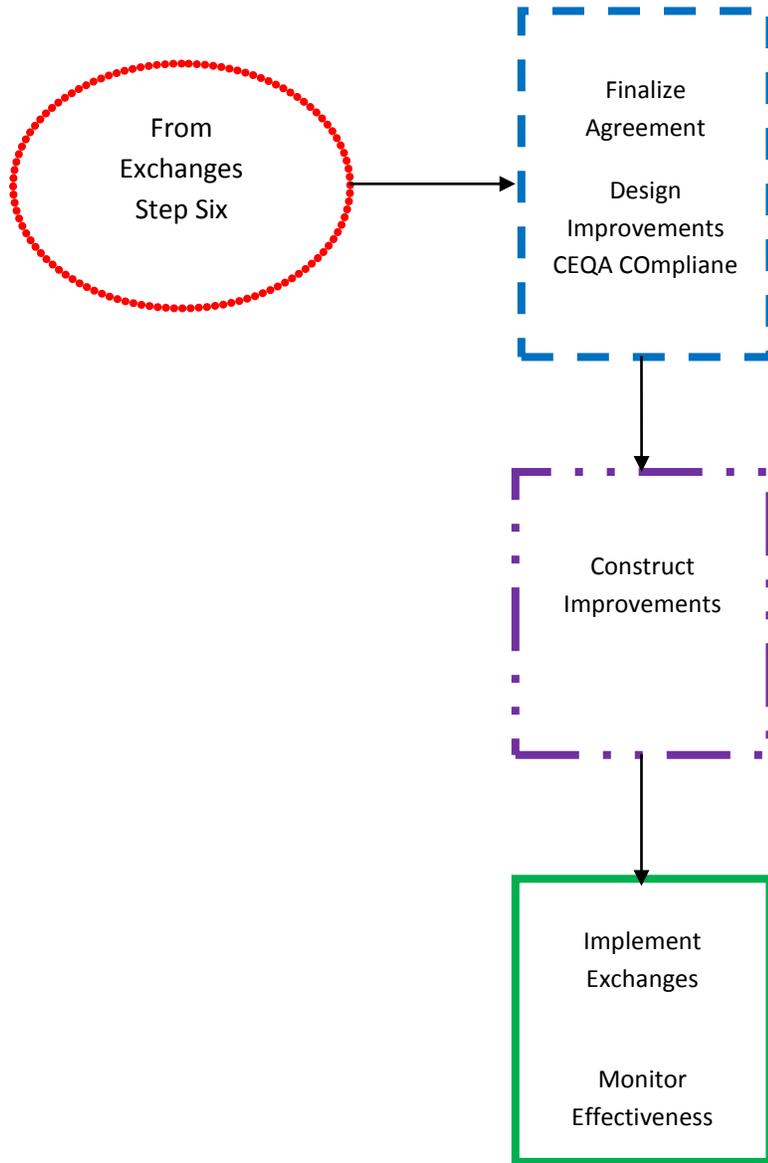
Stratford PUD
Exchanges/Contracting for Surface Water
Step Five



Stratford PUD
Exchanges/Contracting for Surface Water
Step Six



Stratford PUD
Exchanges/Contracting for Surface Water
Step Seven

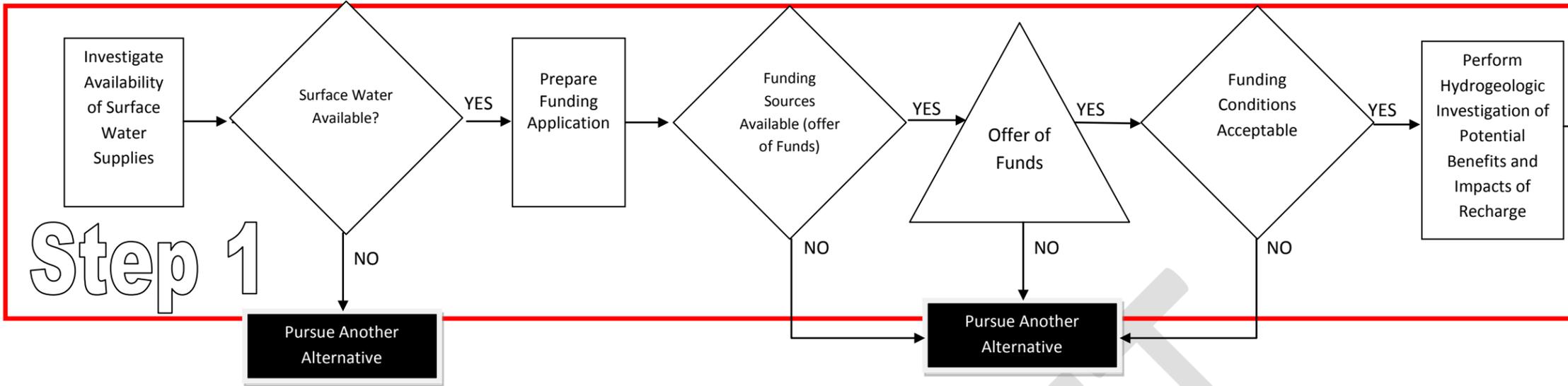


start

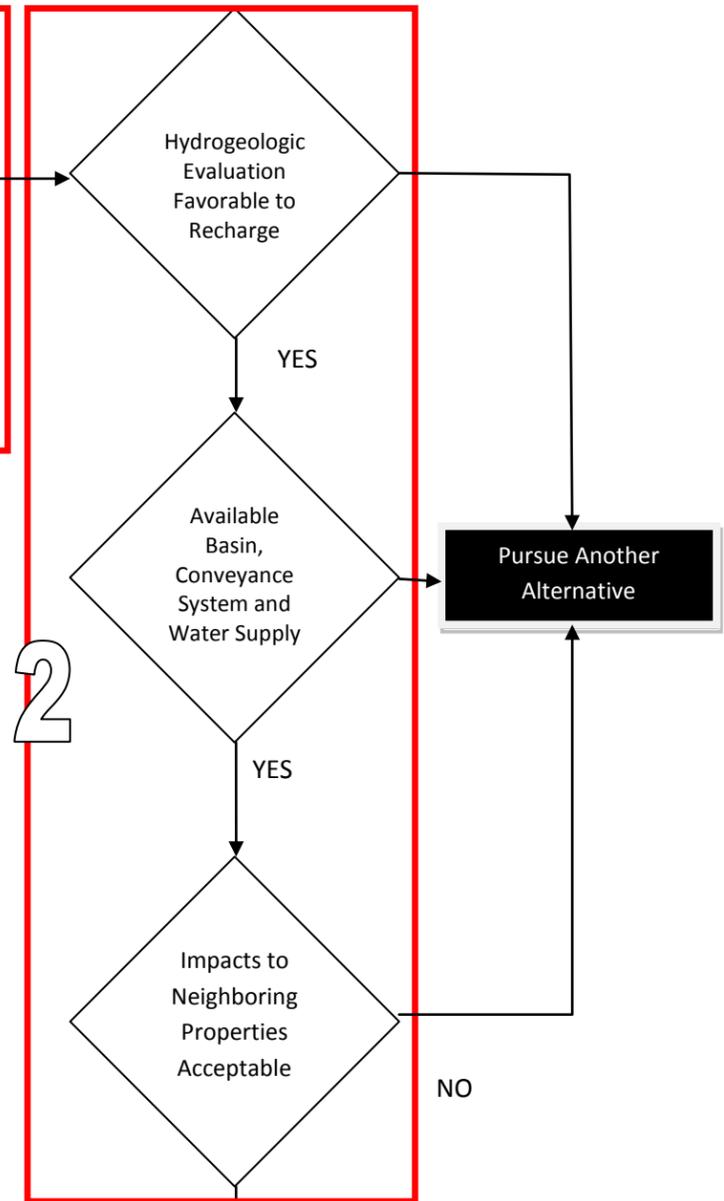
Recharge of Local Area

Stratford PUD

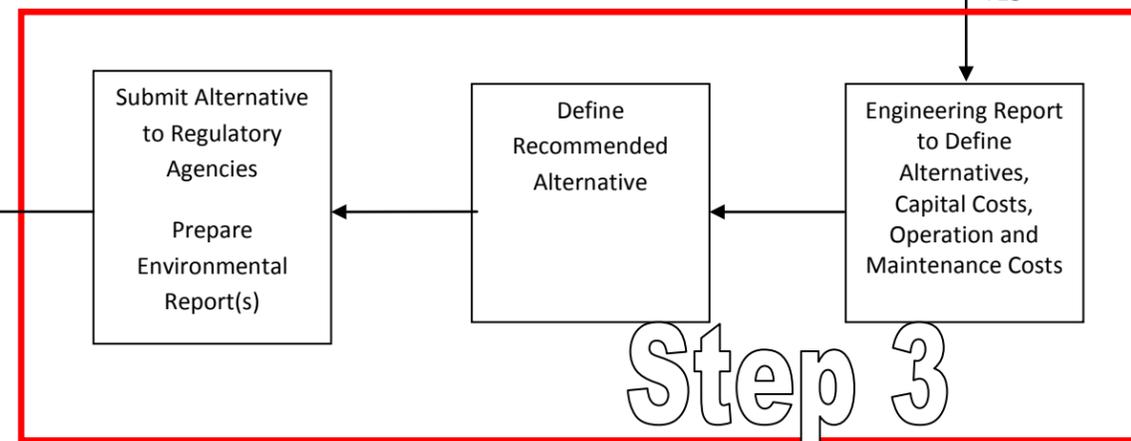
Step 1



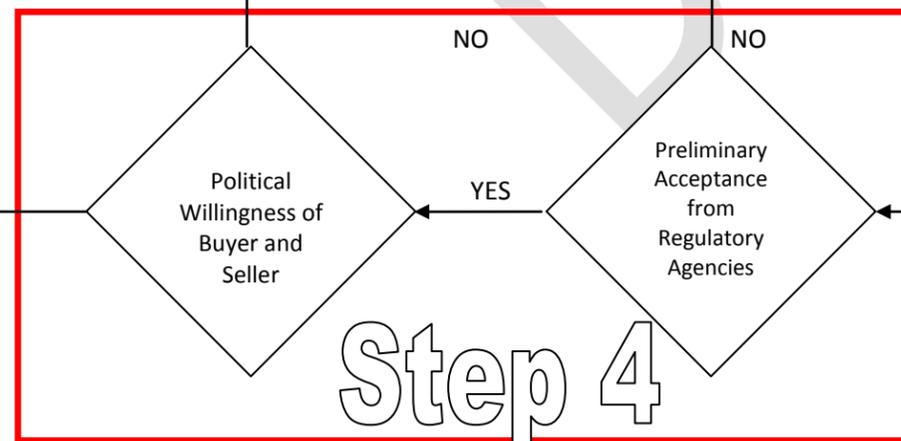
Step 2



Step 3



Step 4



See Recharge of Local Area Page 2 of 2

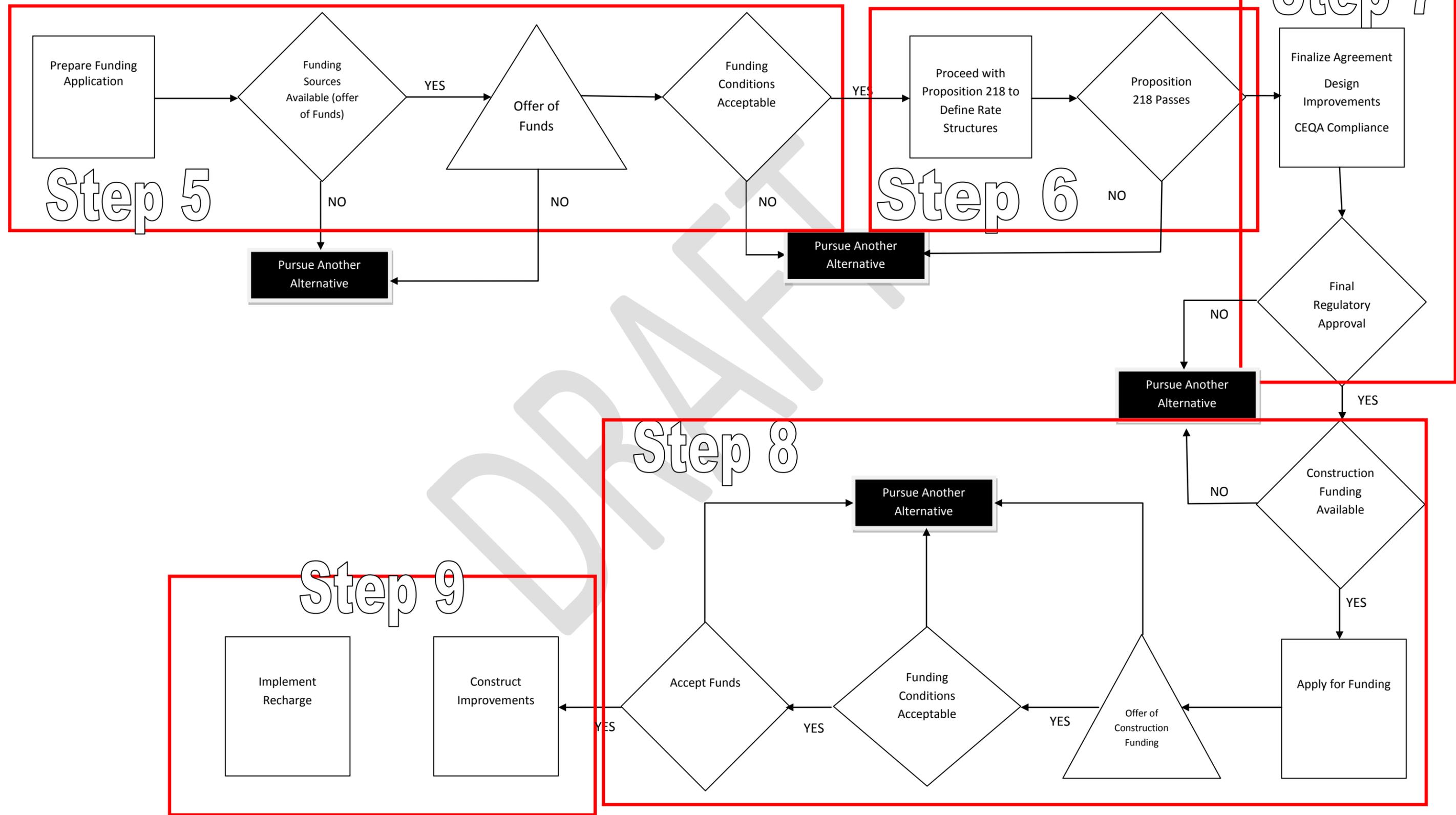
Pursue Another Alternative

DRAFT

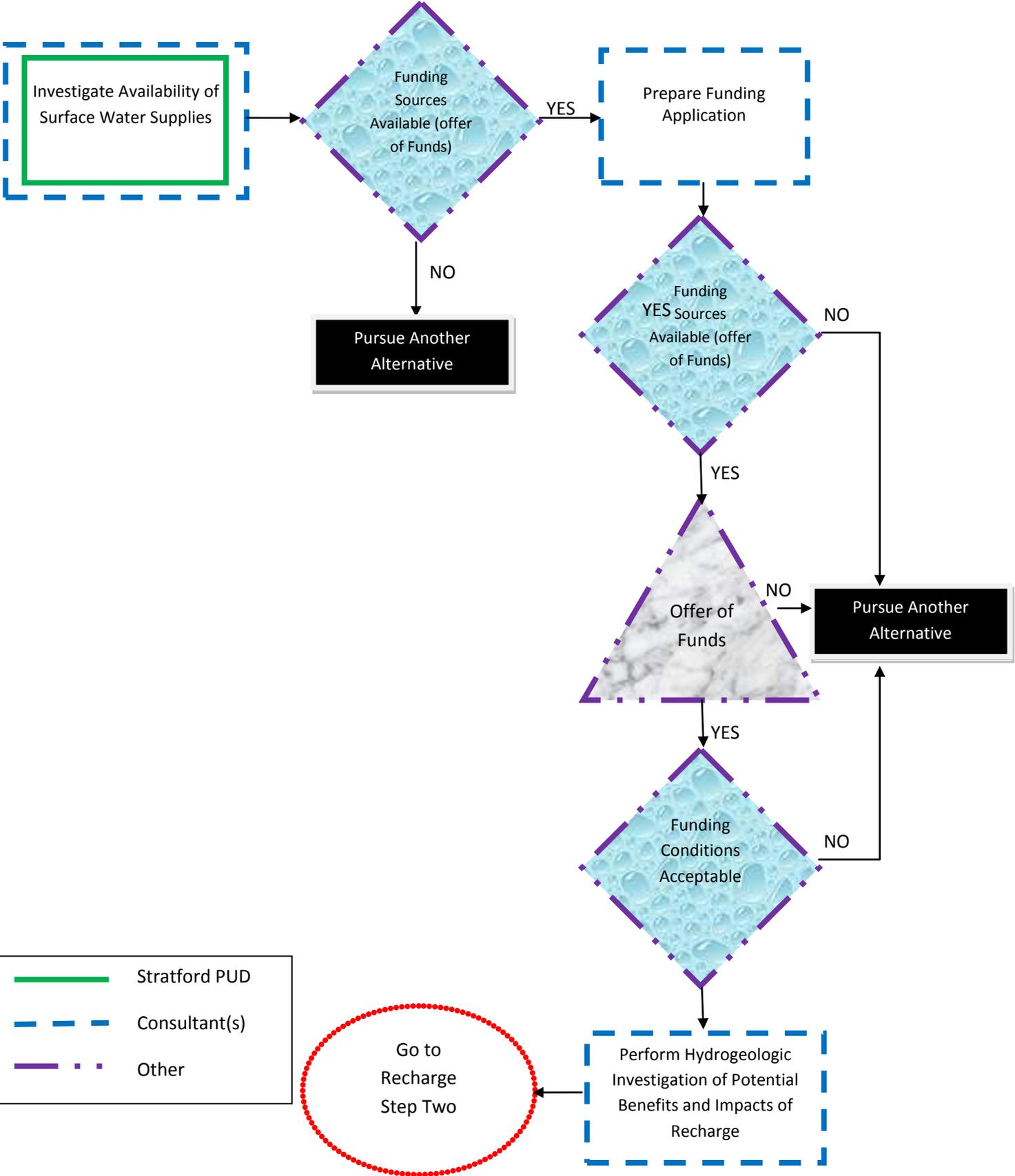
Recharge of Local Area

Stratford PUD

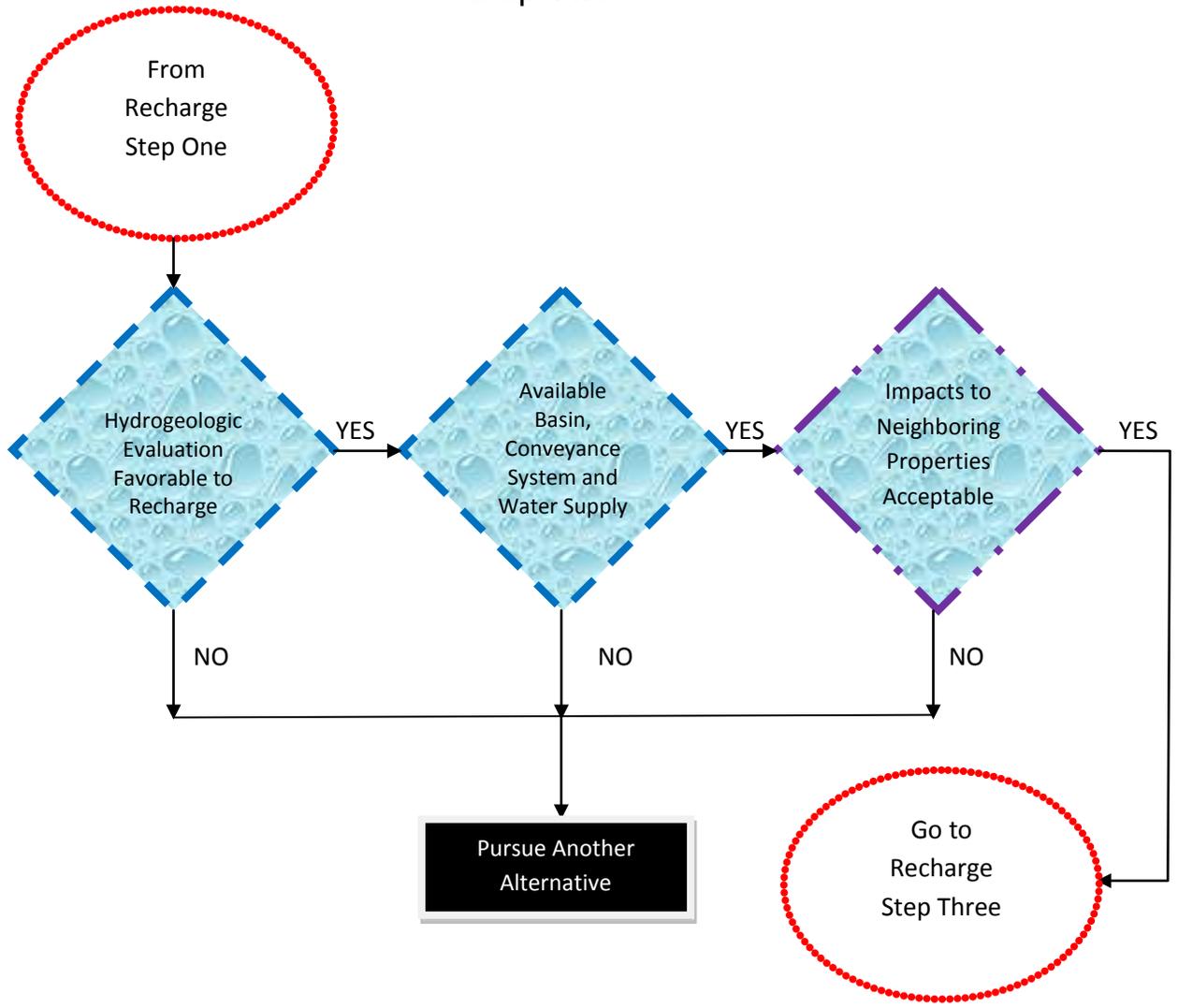
See Recharge of Local Area Page 1 of 2



Stratford PUD
Recharge of Local Area
Step One

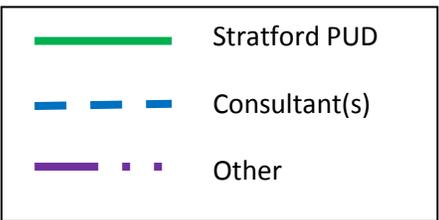
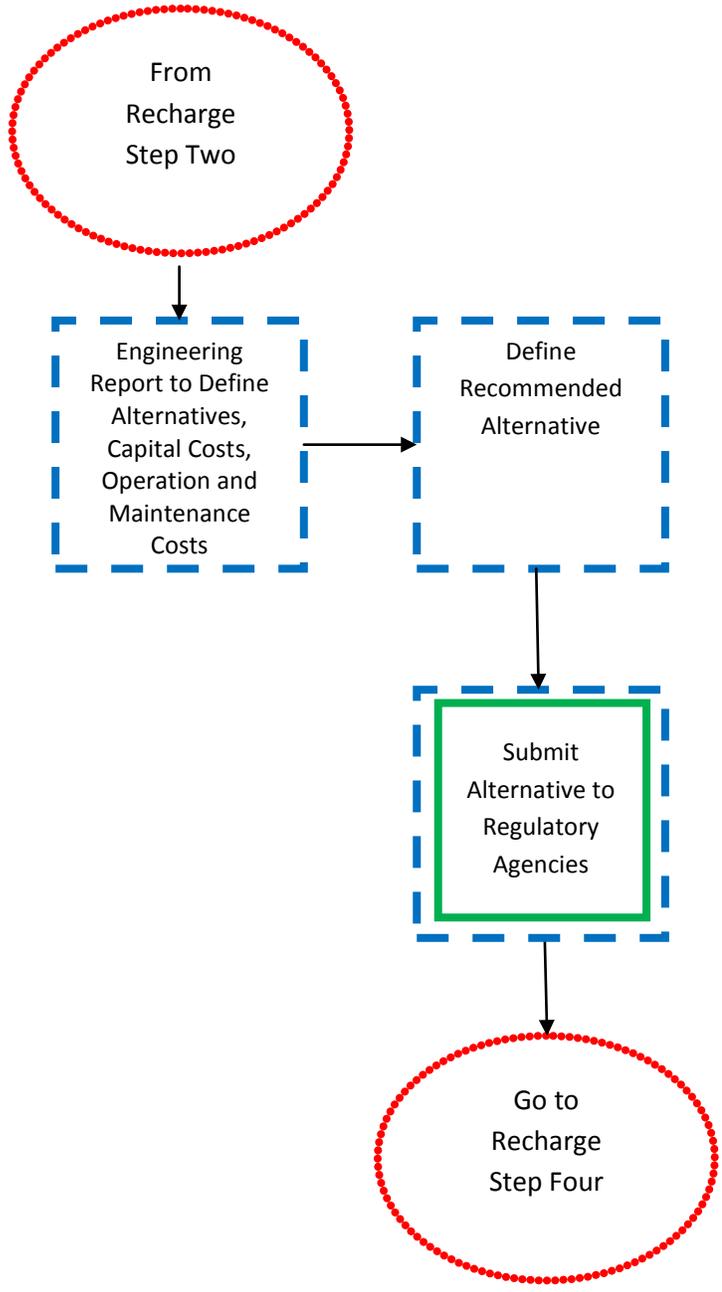


Stratford PUD
Recharge of Local Area
Step Two

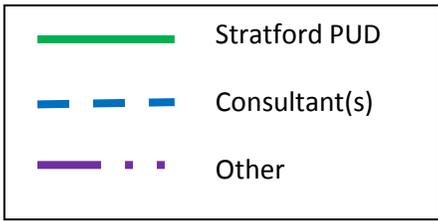
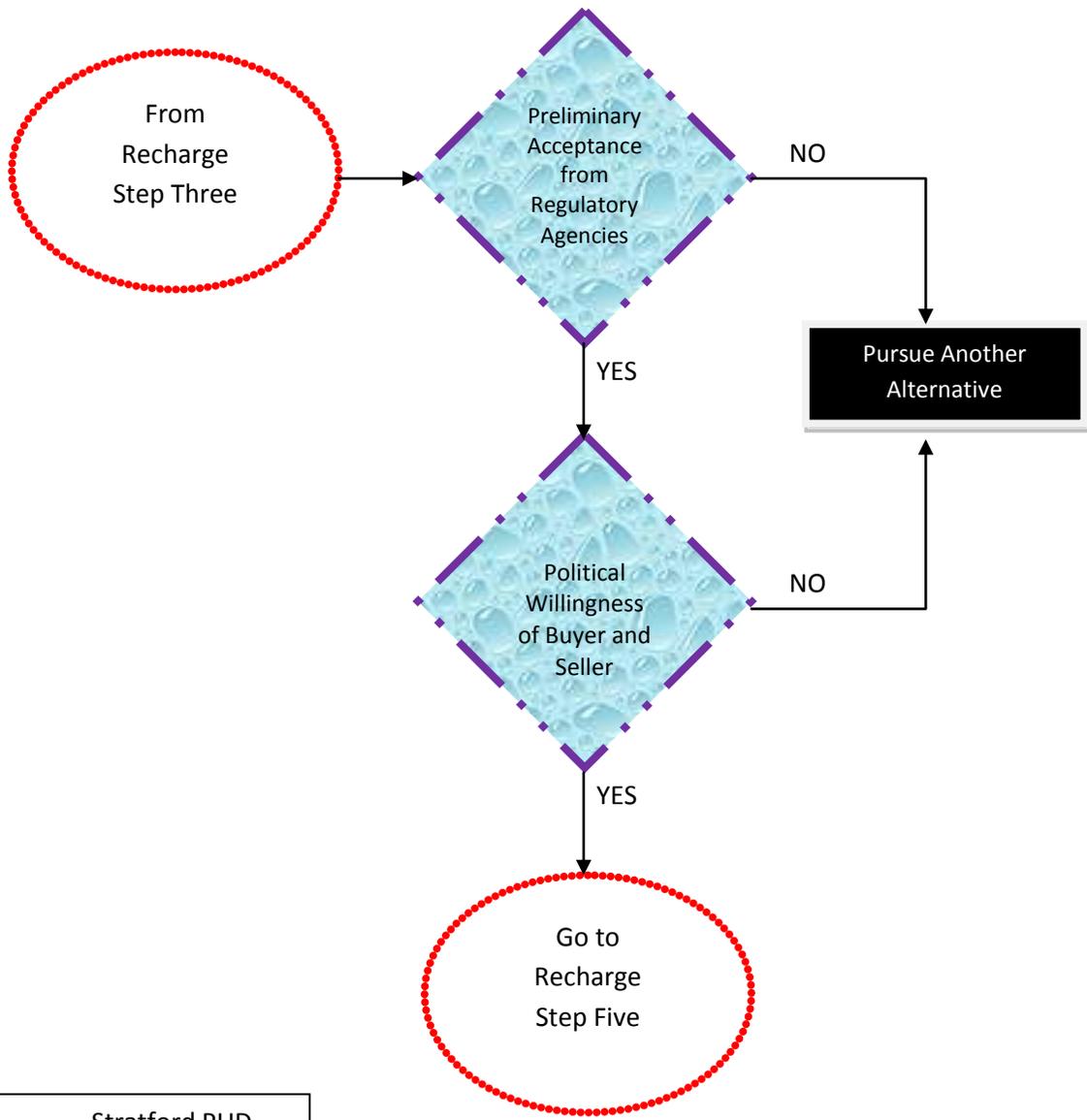


- Stratford PUD
- - - Consultant(s)
- . . Other

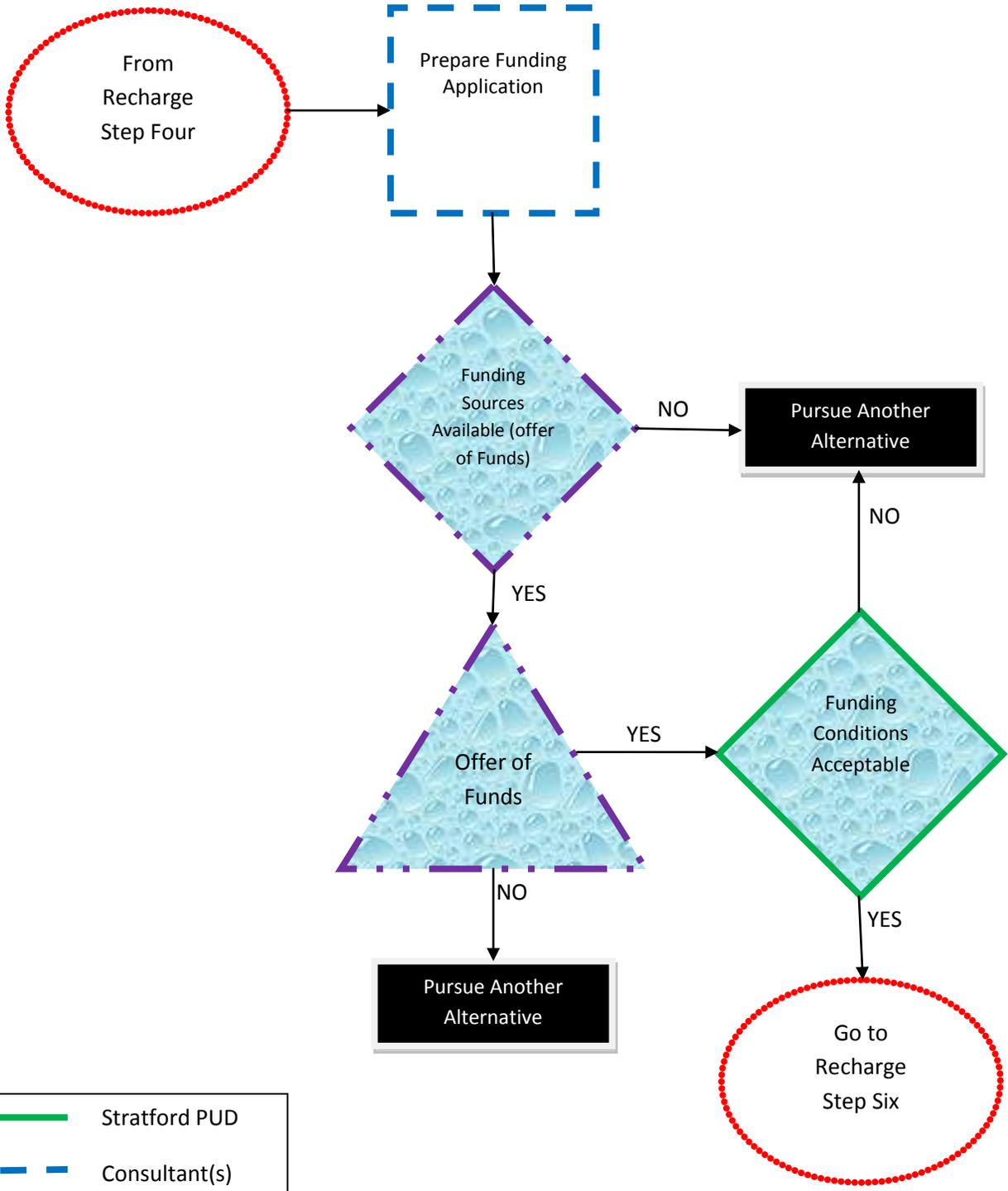
Stratford PUD
Recharge of Local Area
Step Three



Stratford PUD
Recharge of Local Area
Step Four

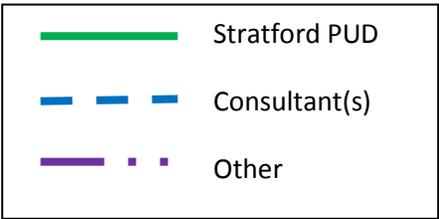
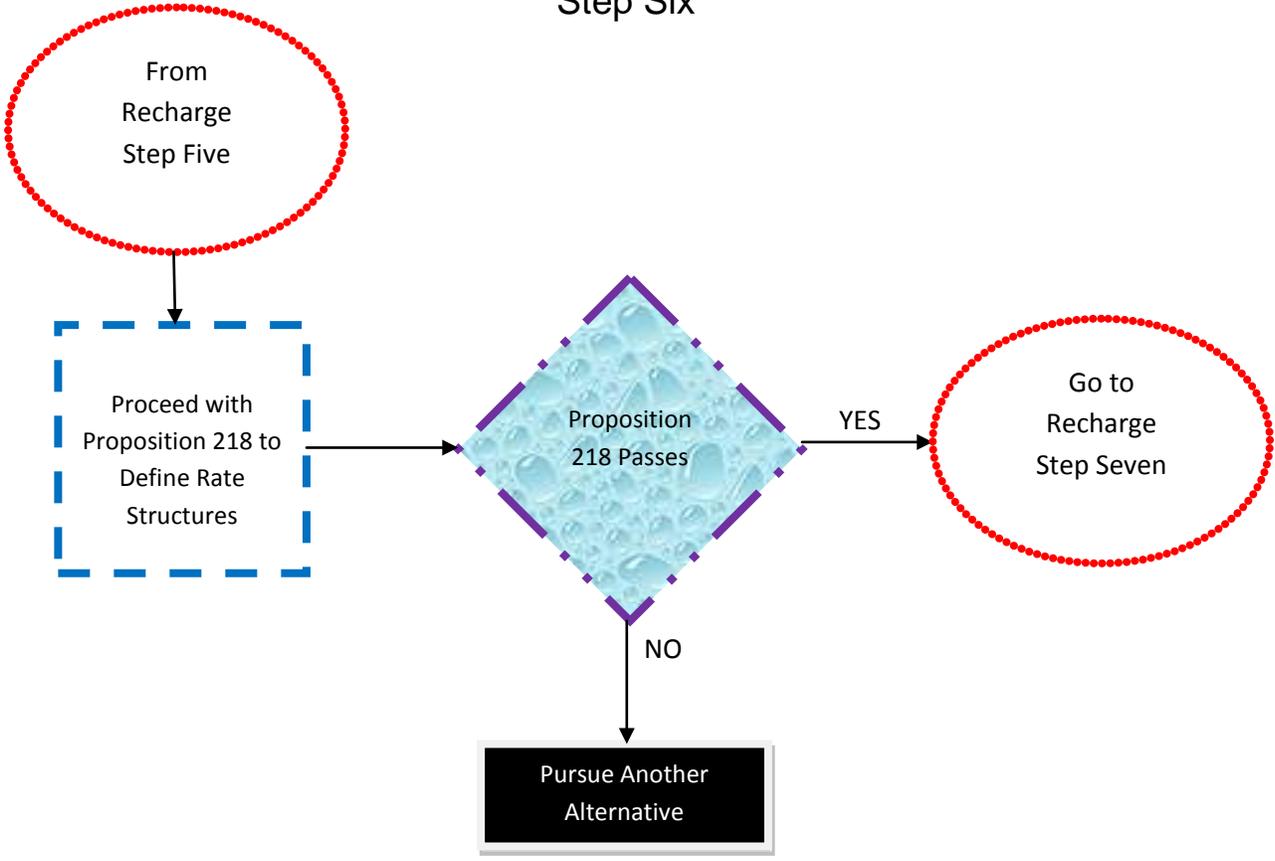


Stratford PUD
Recharge of Local Area
Step Five

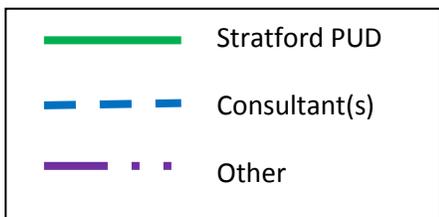
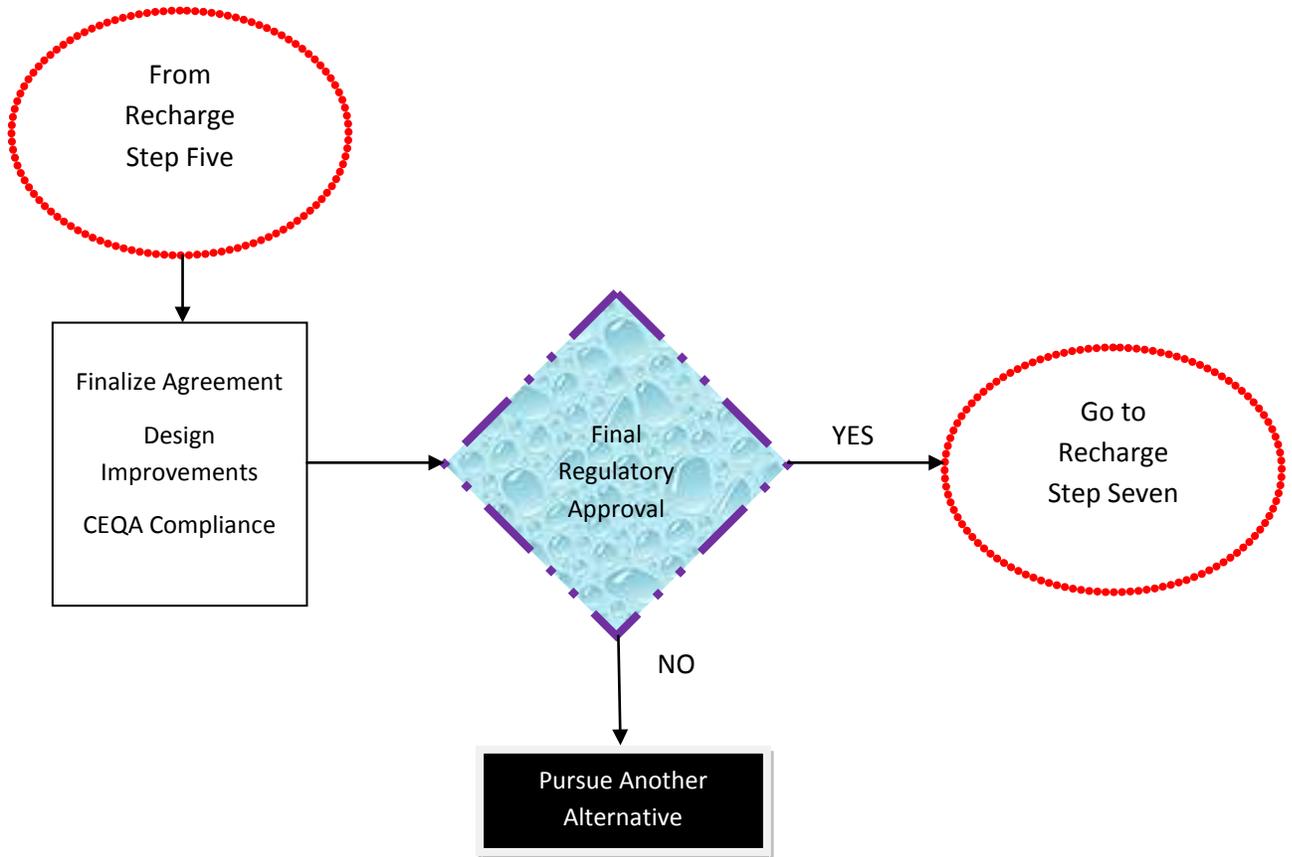


- Stratford PUD
- - - Consultant(s)
- · - Other

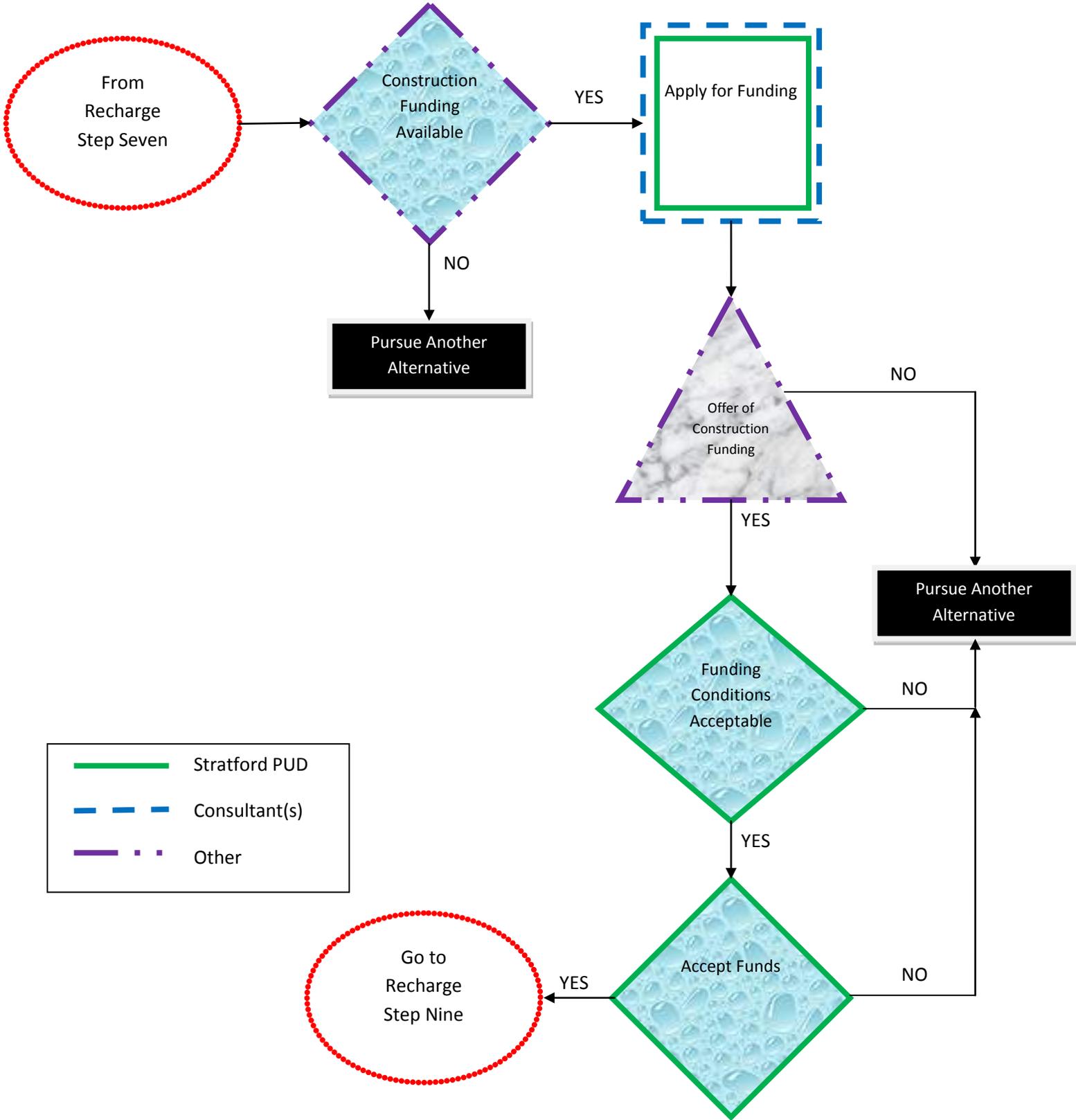
Stratford PUD
Recharge of Local Area
Step Six



Stratford PUD
Recharge of Local Area
Step Seven

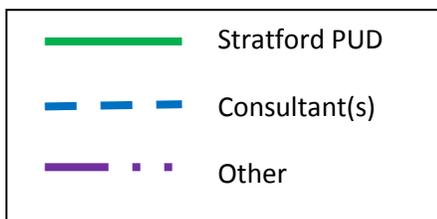
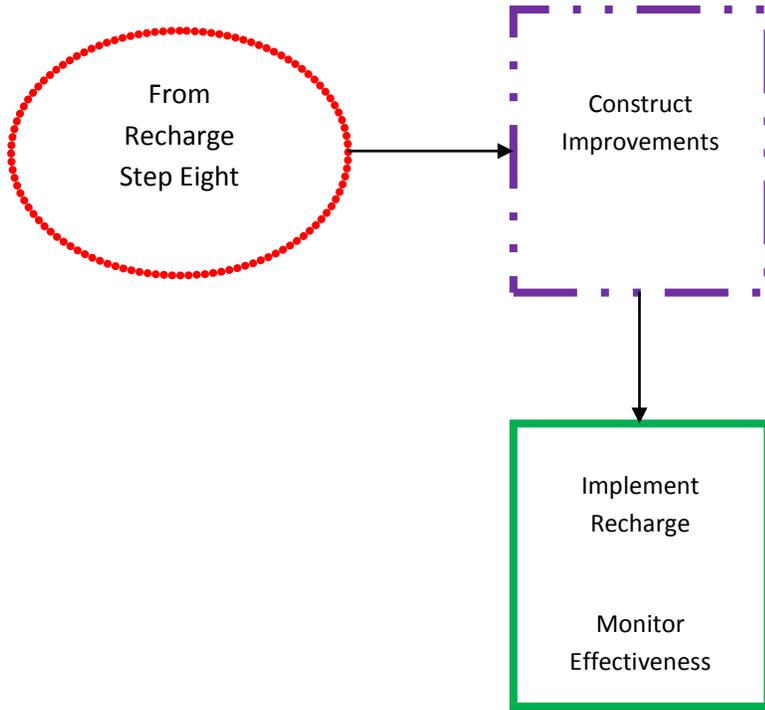


Stratford PUD Recharge of Local Area Step Eight

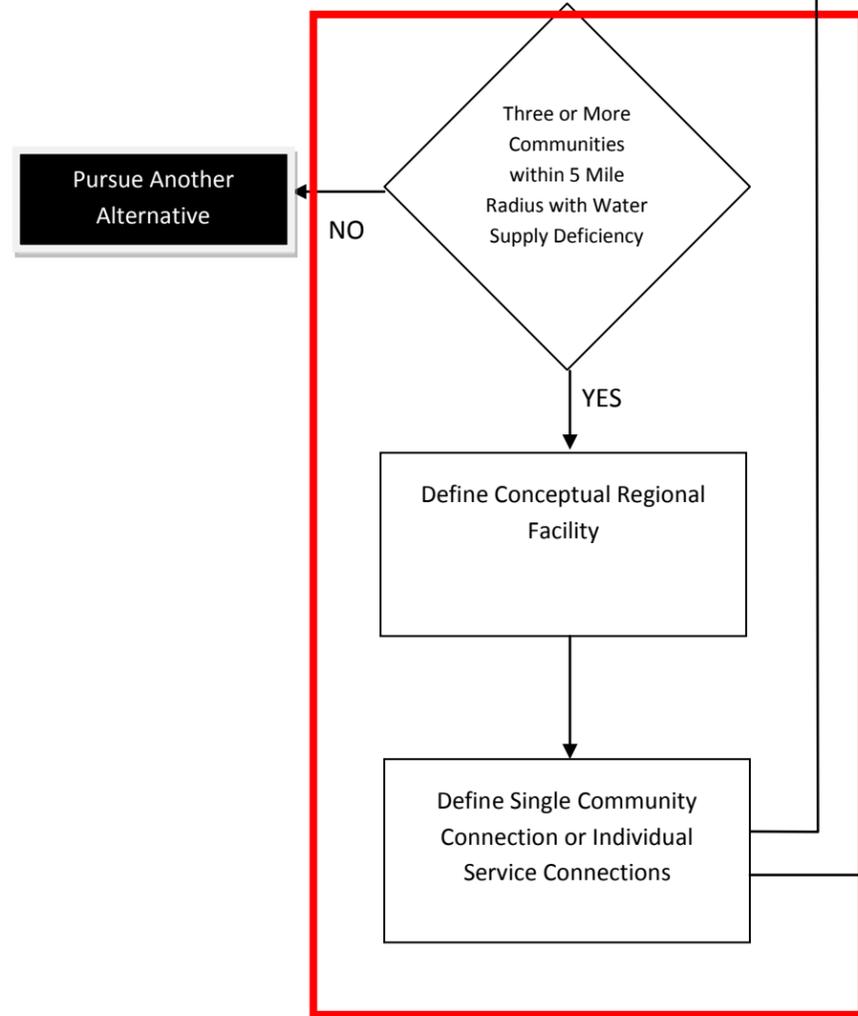


- Stratford PUD
- - - Consultant(s)
- · - Other

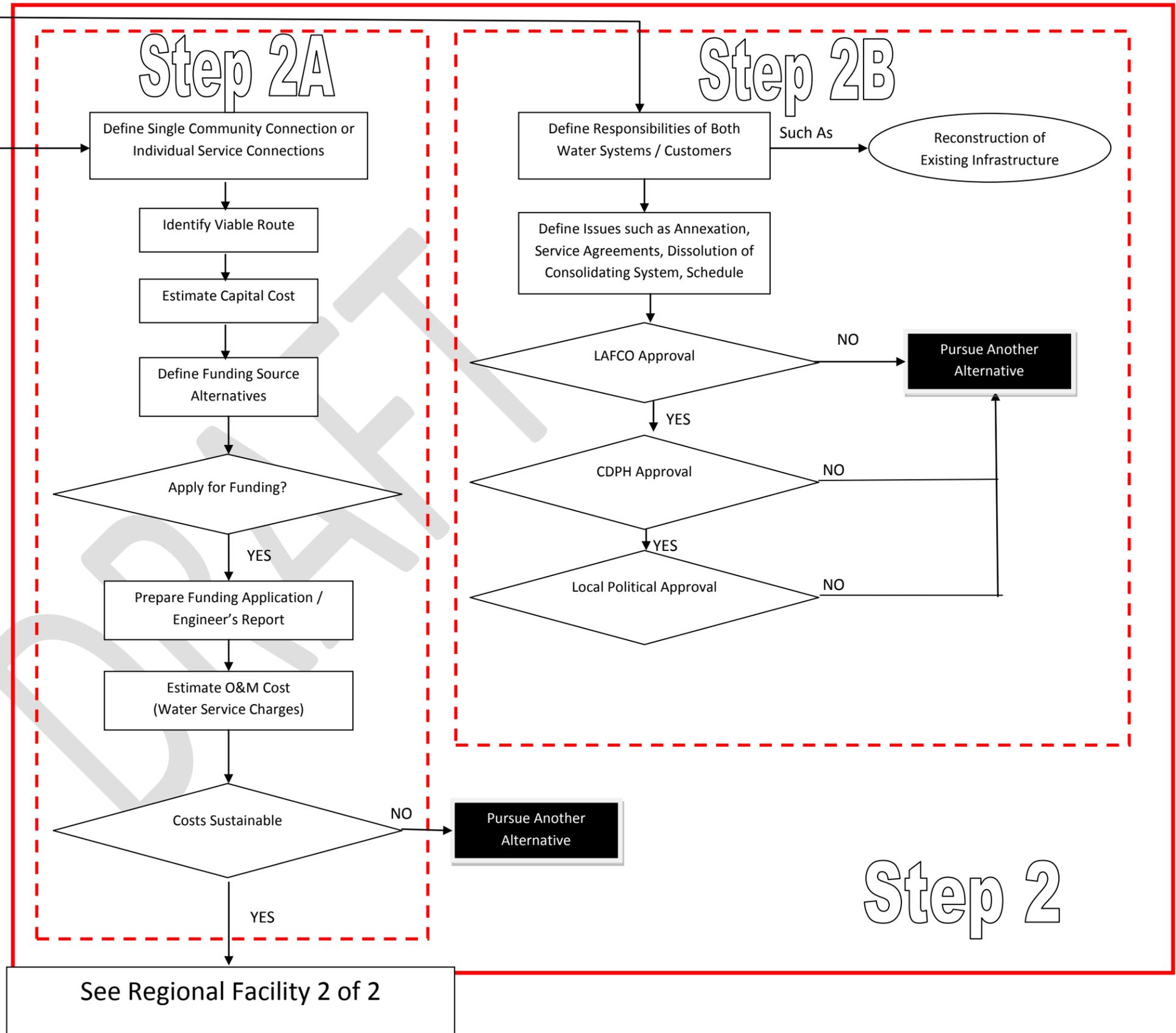
Stratford PUD
Recharge of Local Area
Step Nine



start

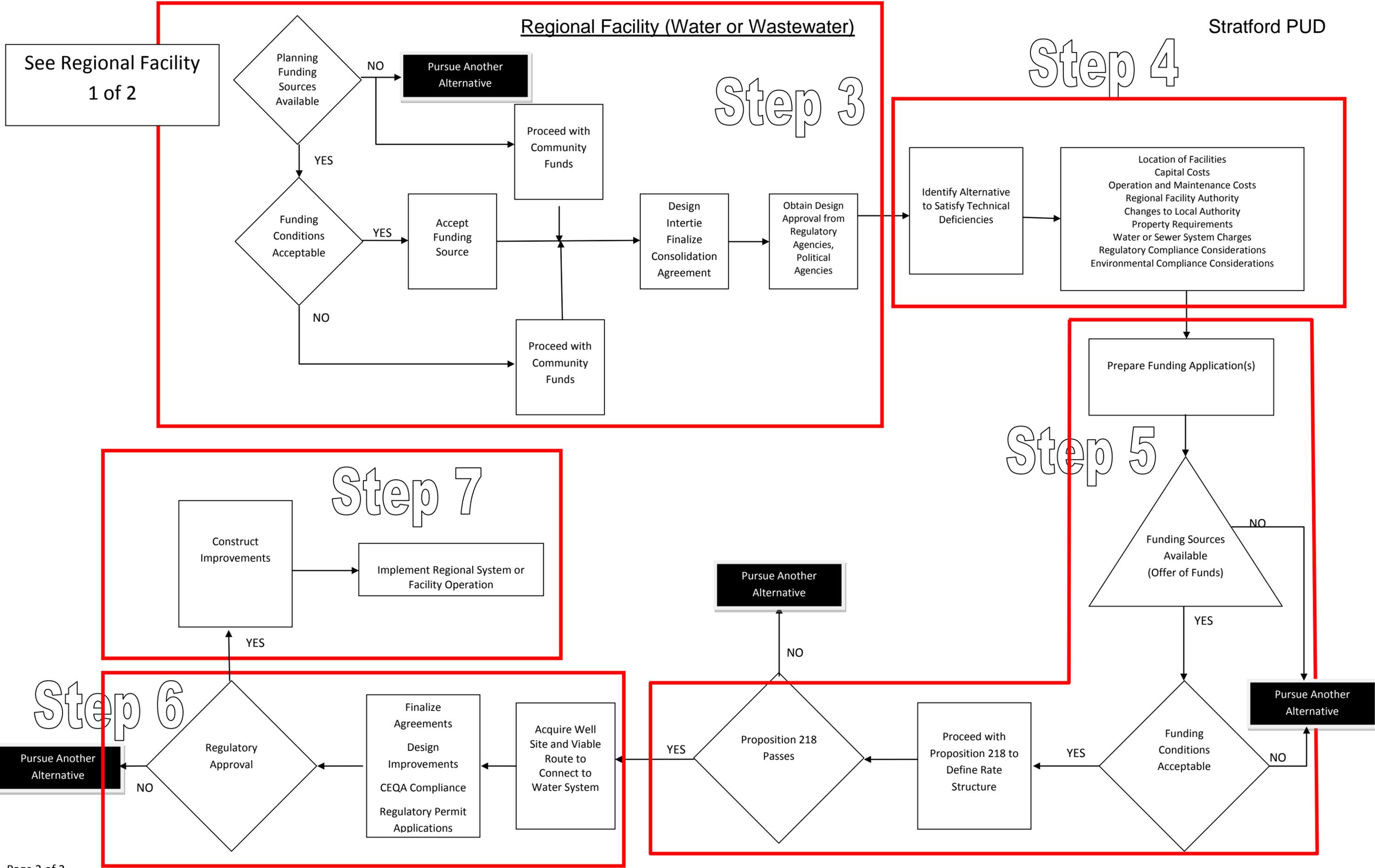


Step 1

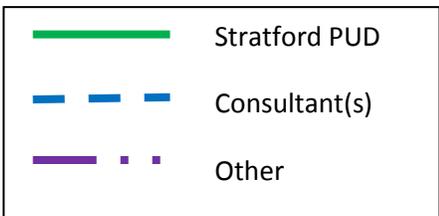
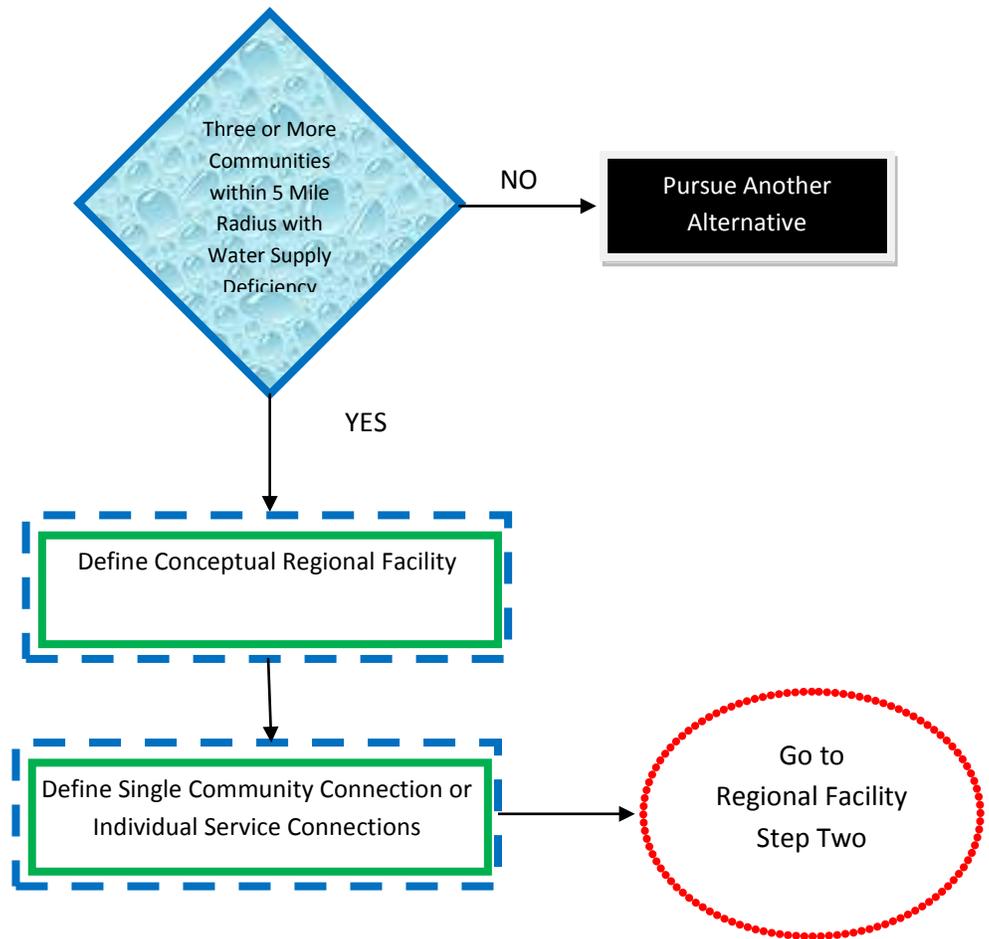


Step 2

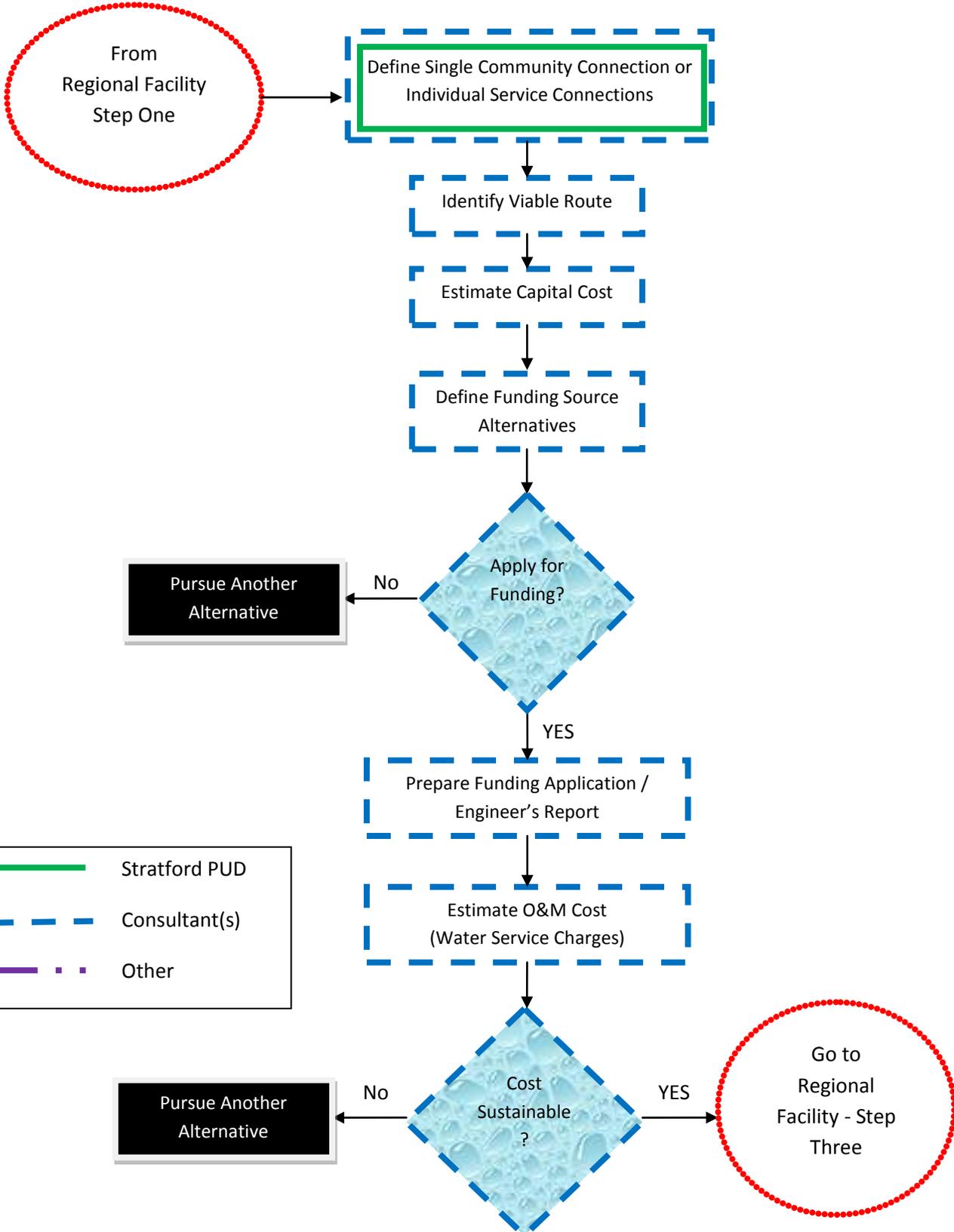
See Regional Facility 2 of 2



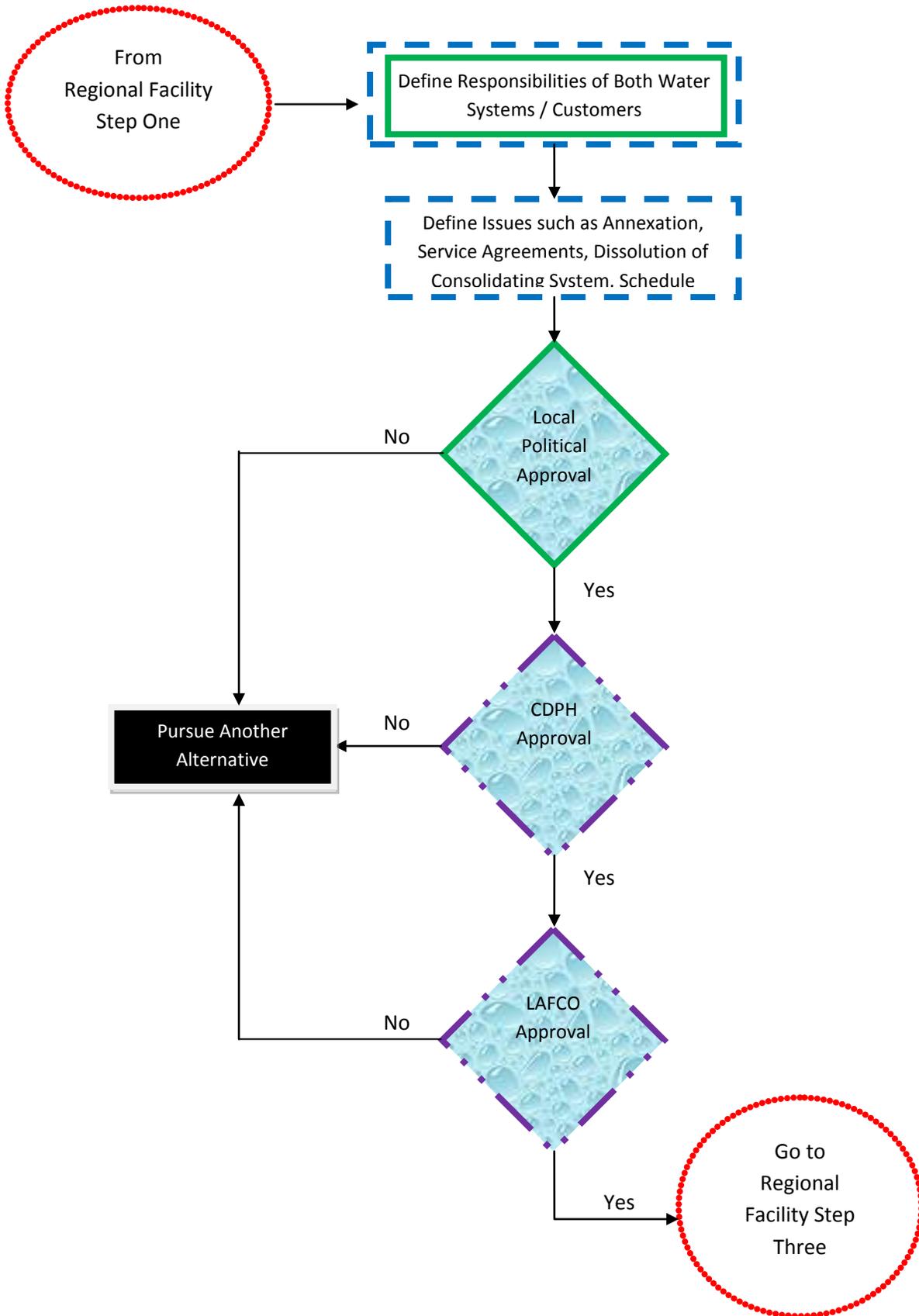
Stratford PUD
Regional Facility (Water or Wastewater)
Step One



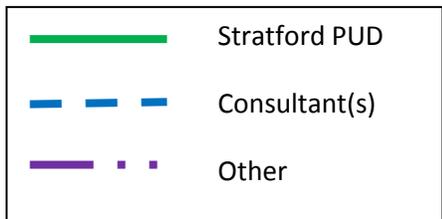
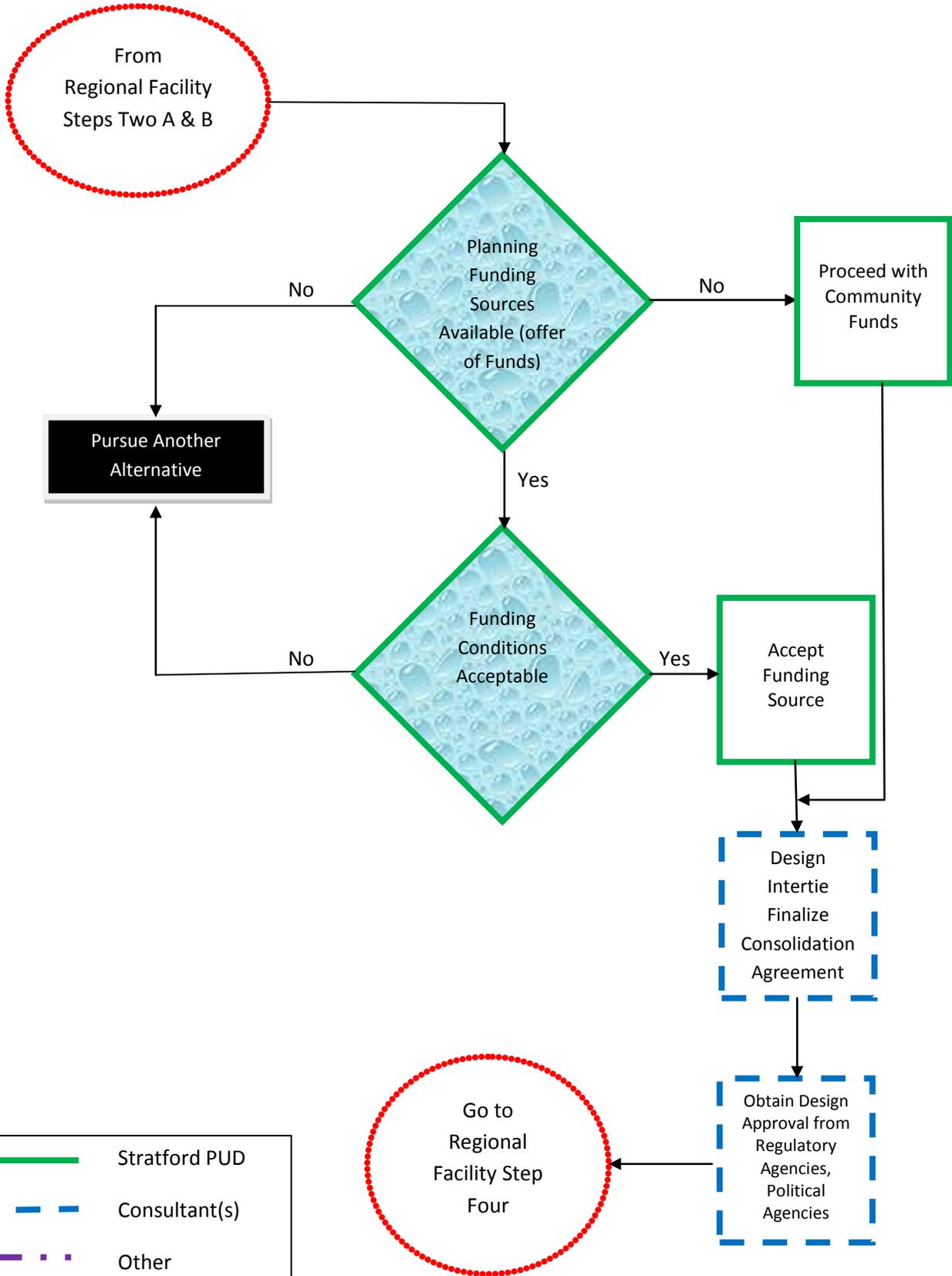
Stratford PUD
Regional Facility (Water or Wastewater)
Step Two A
(Technical)



Stratford PUD
Regional Facility (Water or Wastewater)
Step Two B
(Political)



Stratford PUD
Regional Facility (Water or Wastewater)
Step Three



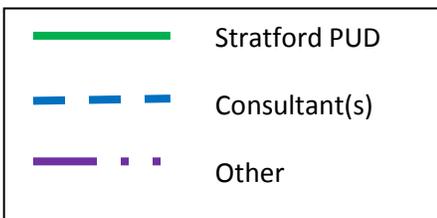
Stratford PUD
Regional Facility (Water or Wastewater)
Step Four

From
Regional Facility
Step Two

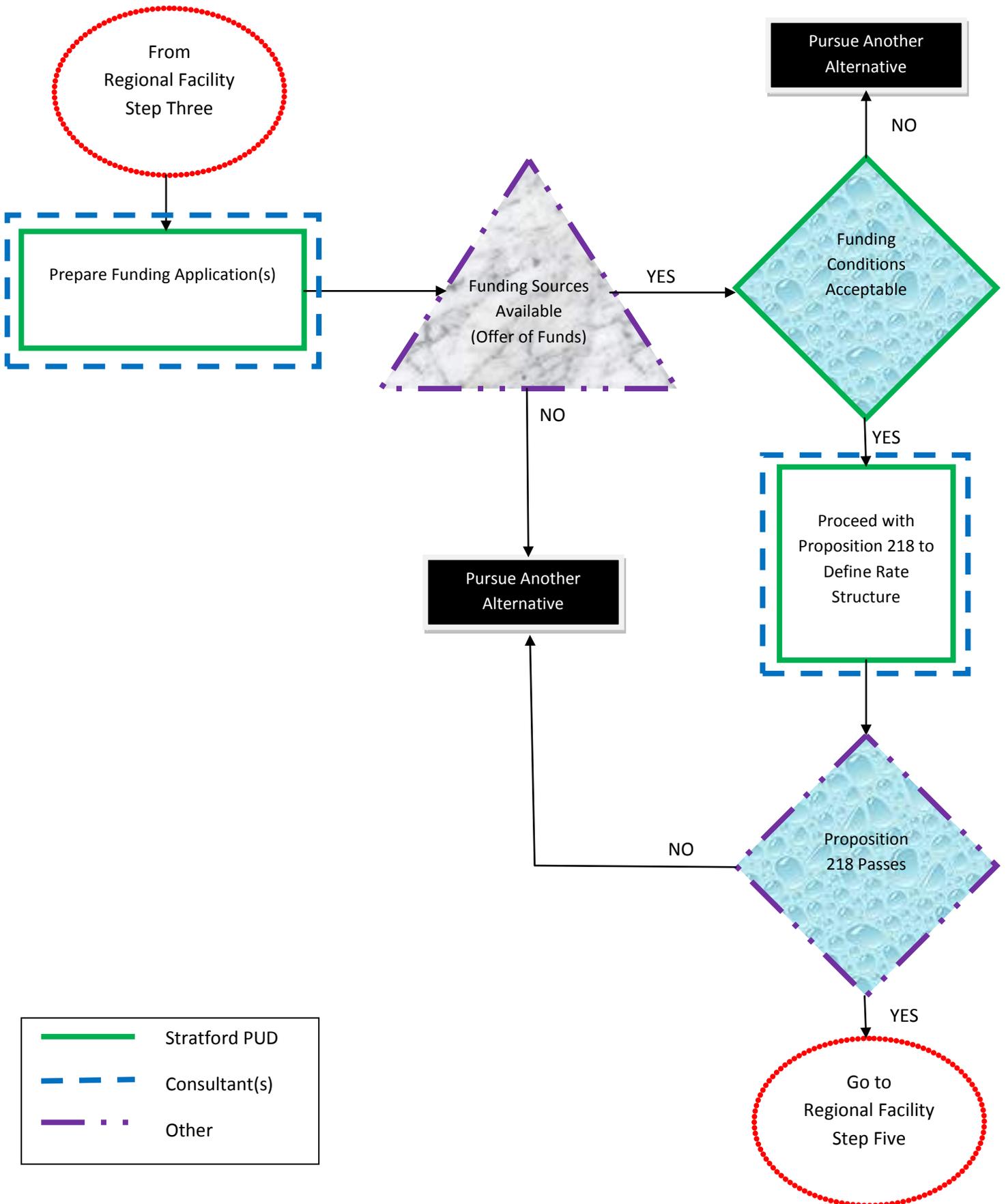
Identify Alternative
to Satisfy Technical
Deficiencies

Location of Facilities
Capital Costs
Operation and Maintenance Costs
Regional Facility Authority
Changes to Local Authority
Property Requirements
Water or Sewer System Charges
Regulatory Compliance Considerations
Environmental Compliance
Considerations

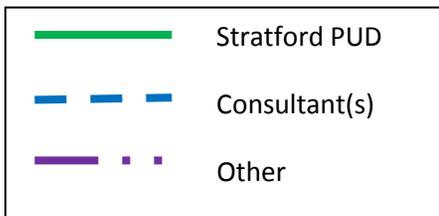
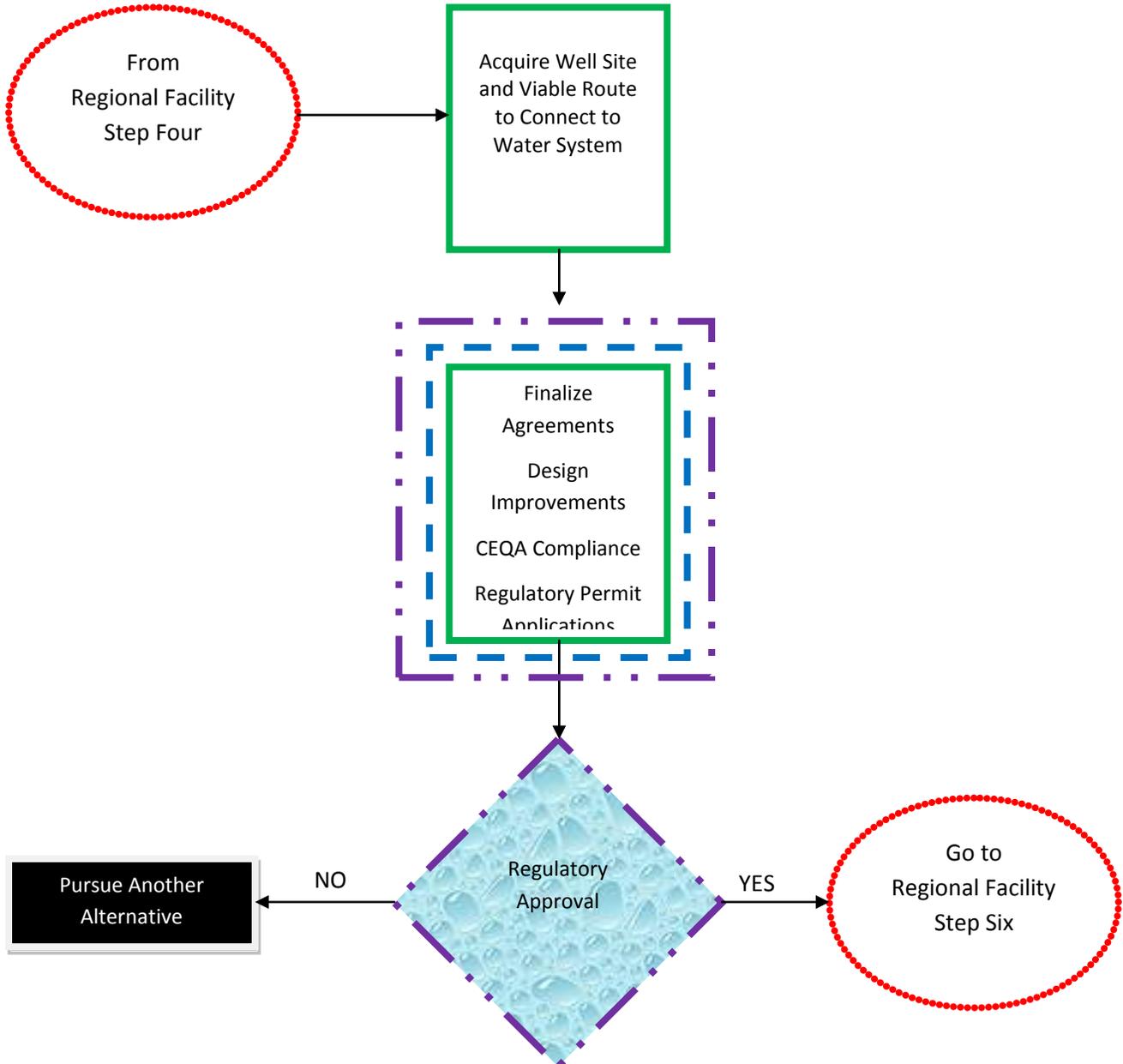
Go to
Regional Facility
Step Four



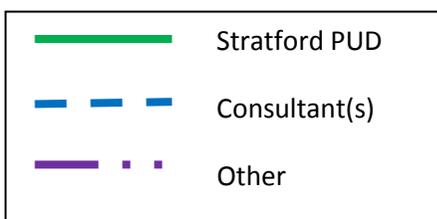
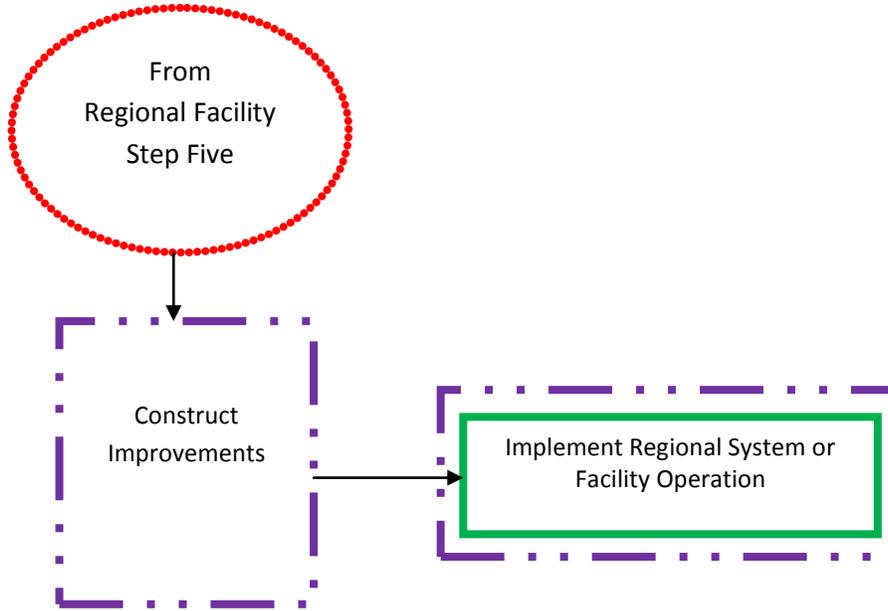
Stratford PUD
Regional Facility (Water or Wastewater)
Step Five

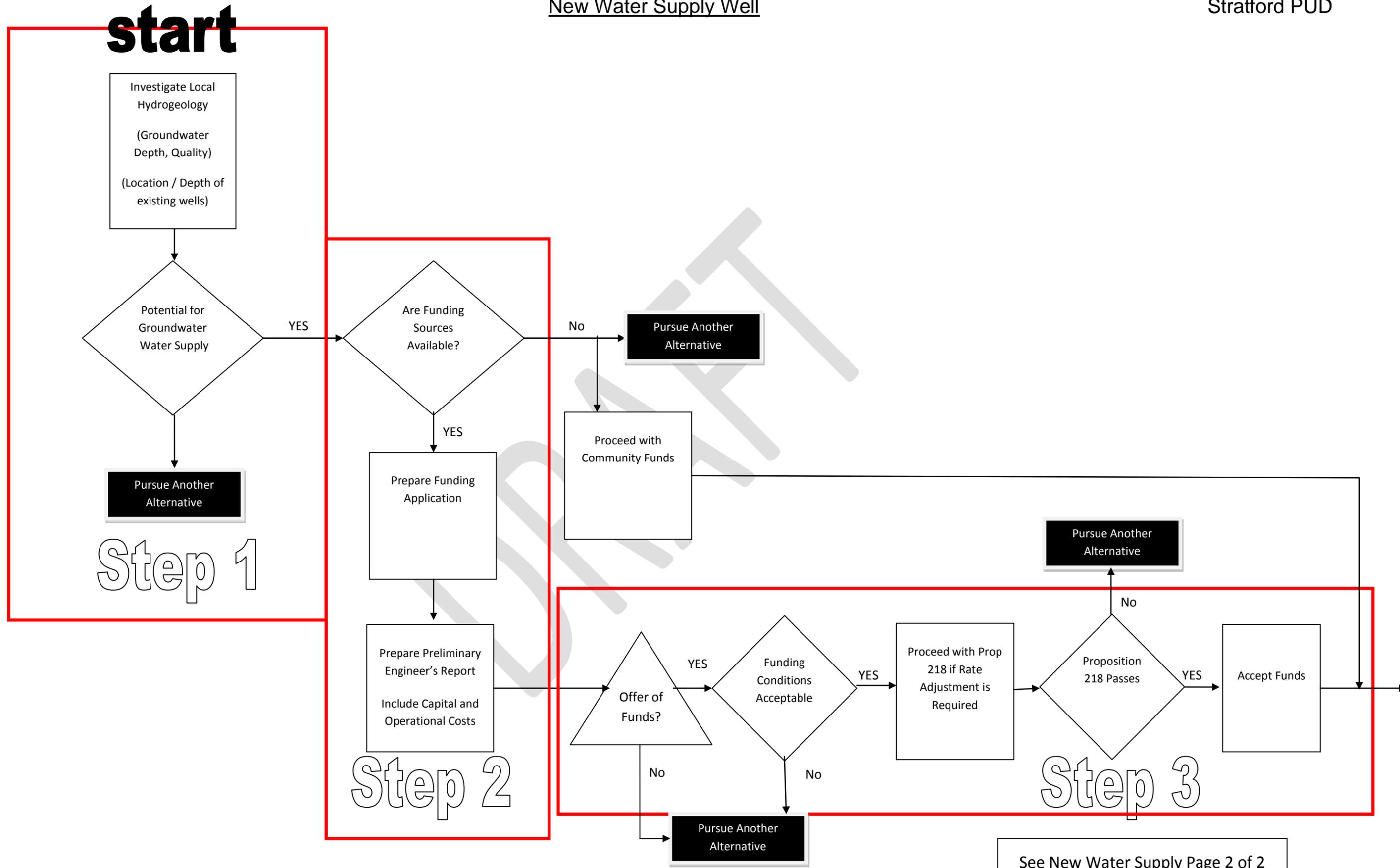


Stratford PUD
Regional Facility (Water or Wastewater)
Step Six



Stratford PUD
Regional Facility (Water or Wastewater)
Step Seven





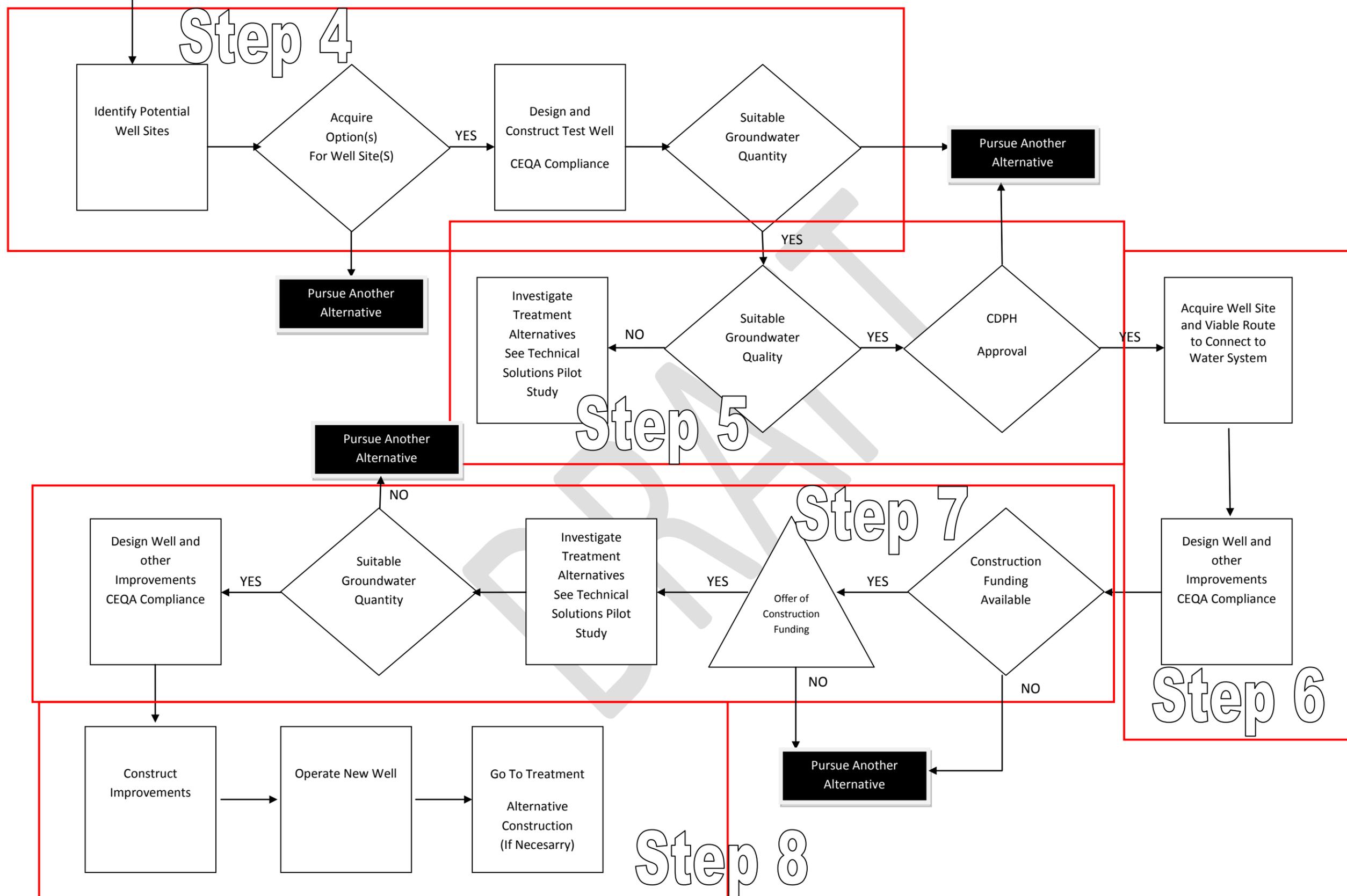
start

Step 1

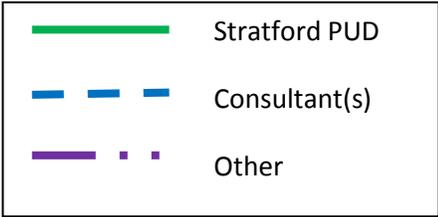
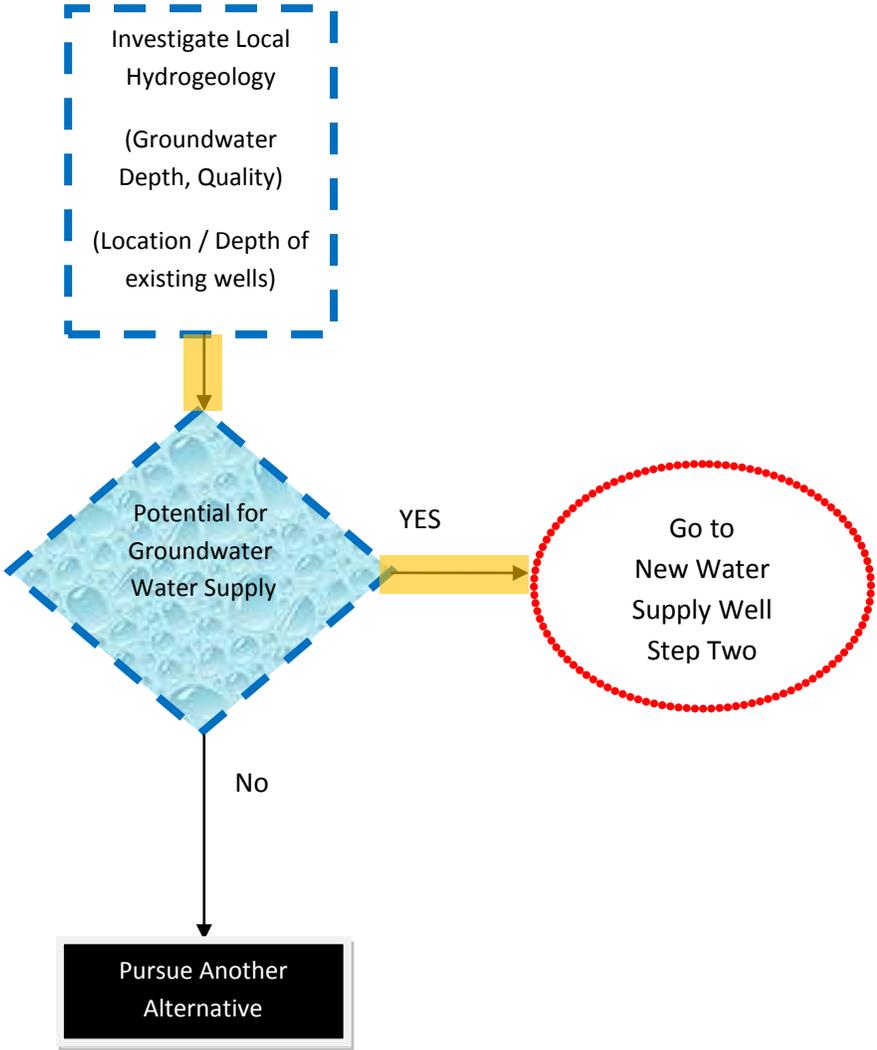
Step 2

Step 3

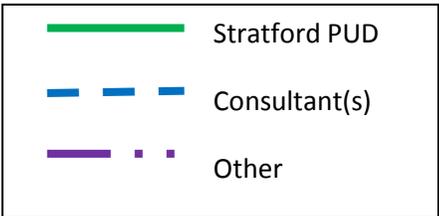
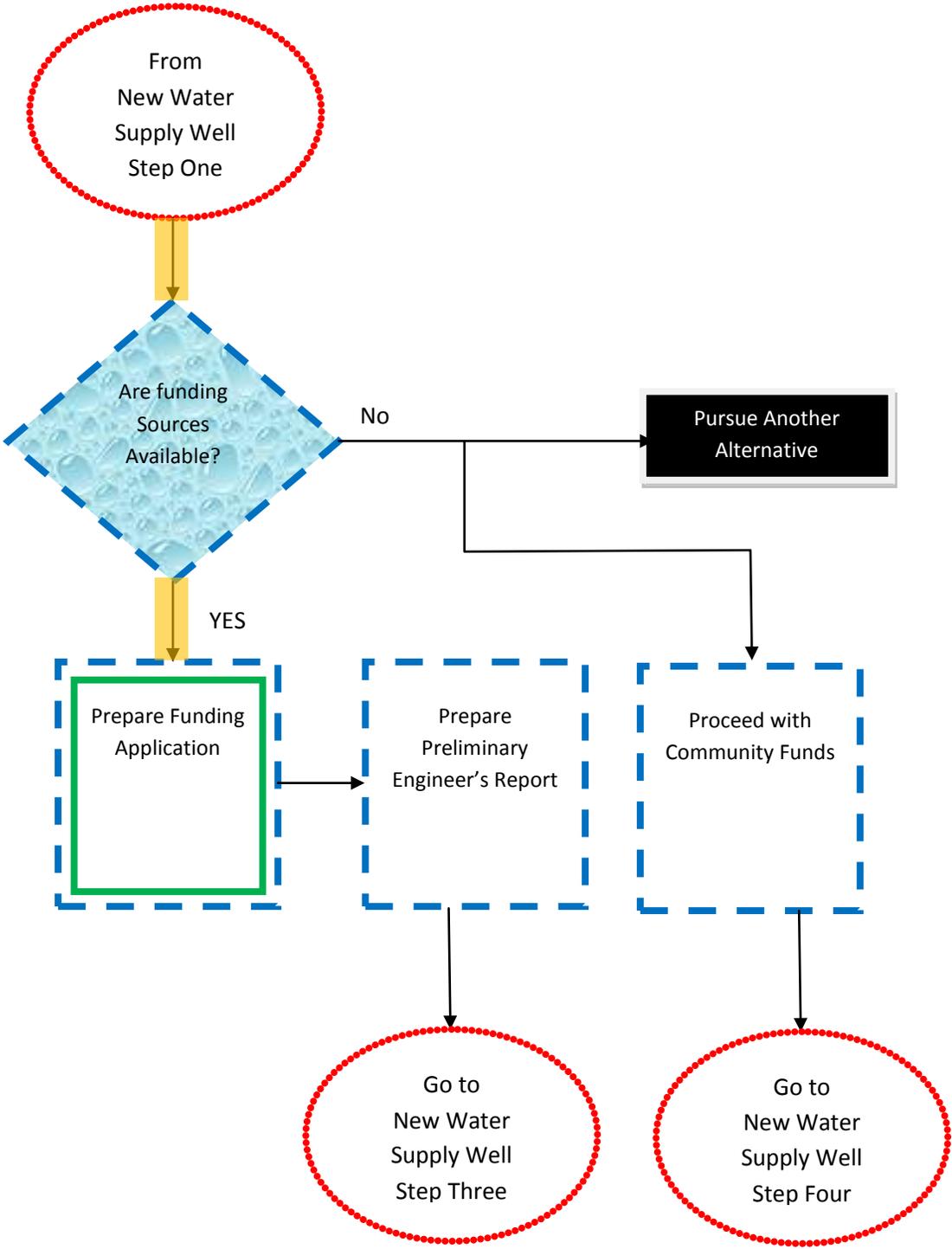
See New Water Supply Page 2 of 2



Stratford PUD
New Water Supply Well
Step One

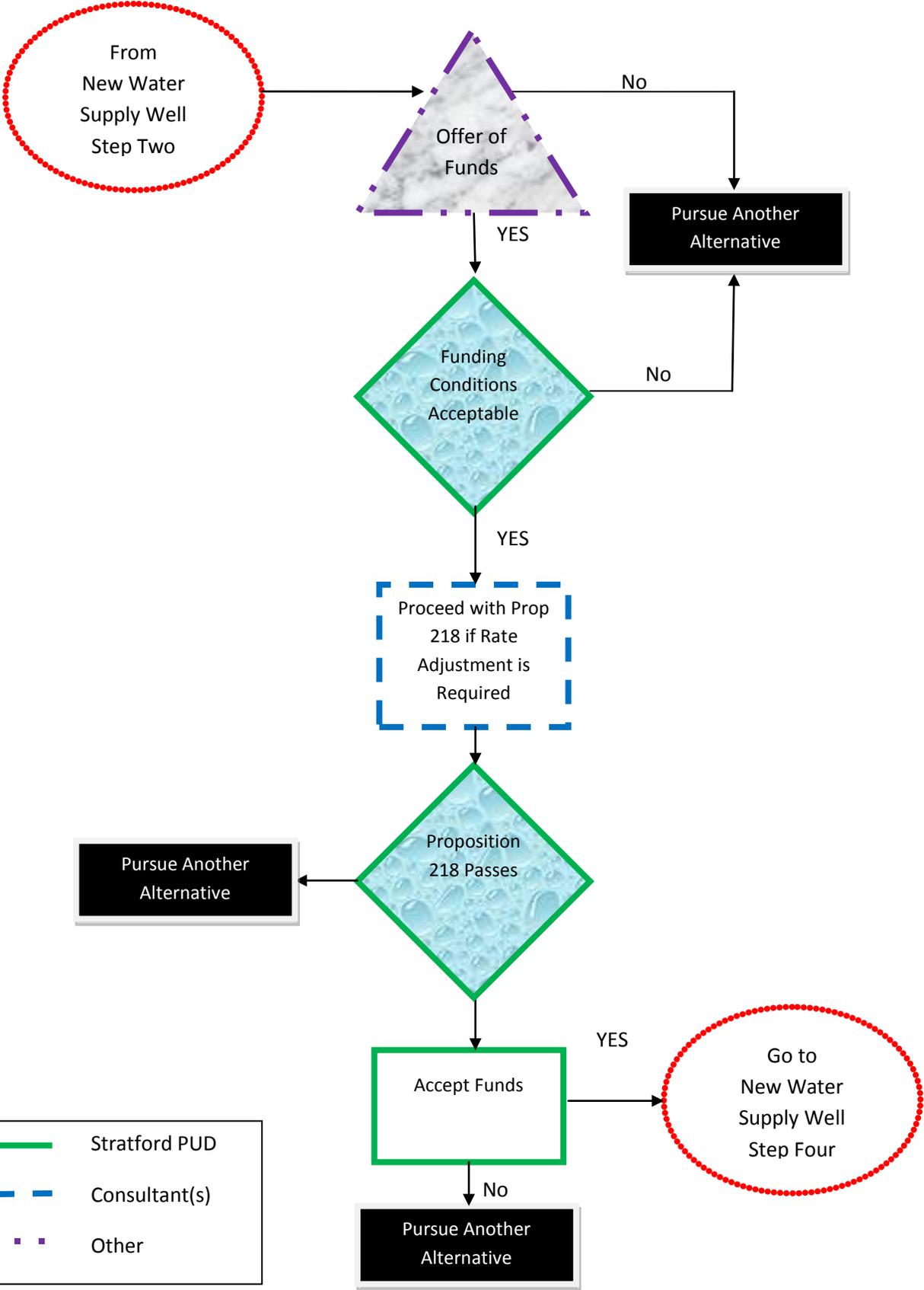


Stratford PUD
New Water Supply Well
Step Two



Stratford PUD New Water Supply Well

Step Three



Stratford PUD
New Water Supply Well
Step Four

From
New Water
Supply Well
Step Three

Identify Potential
Well Sites

Acquire
Option(s)
For Well Site(S)

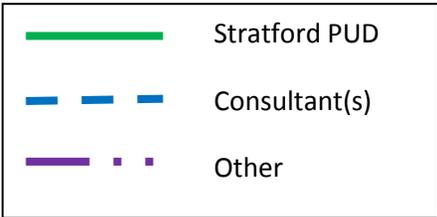
Pursue Another
Alternative

CEQA Compliance
Design and
Construct Test
Well

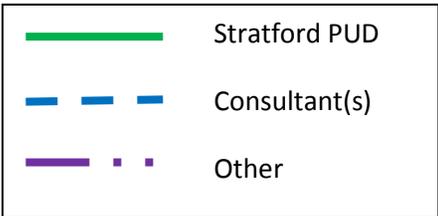
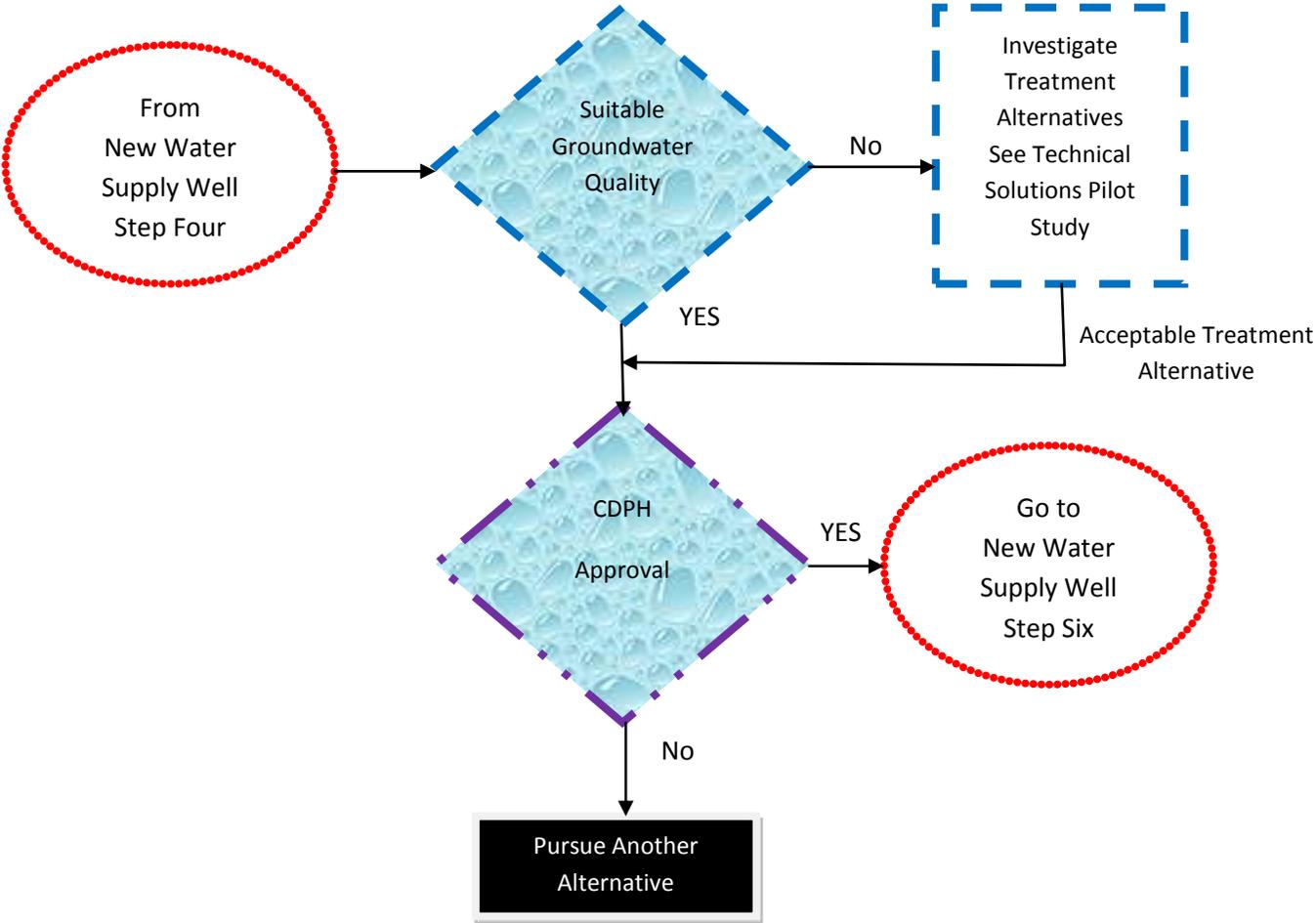
Suitable
Groundwater
Quantity

Pursue Another
Alternative

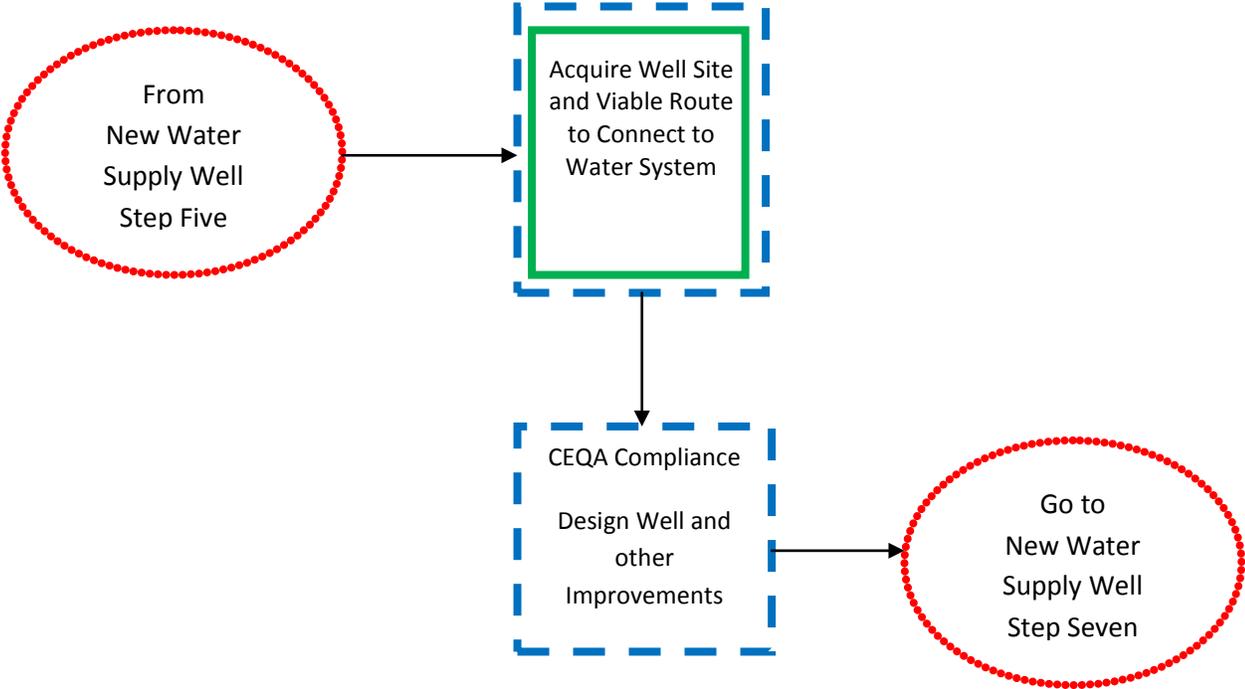
Go to
New Water
Supply Well
Step Five



Stratford PUD
New Water Supply Well
Step Five

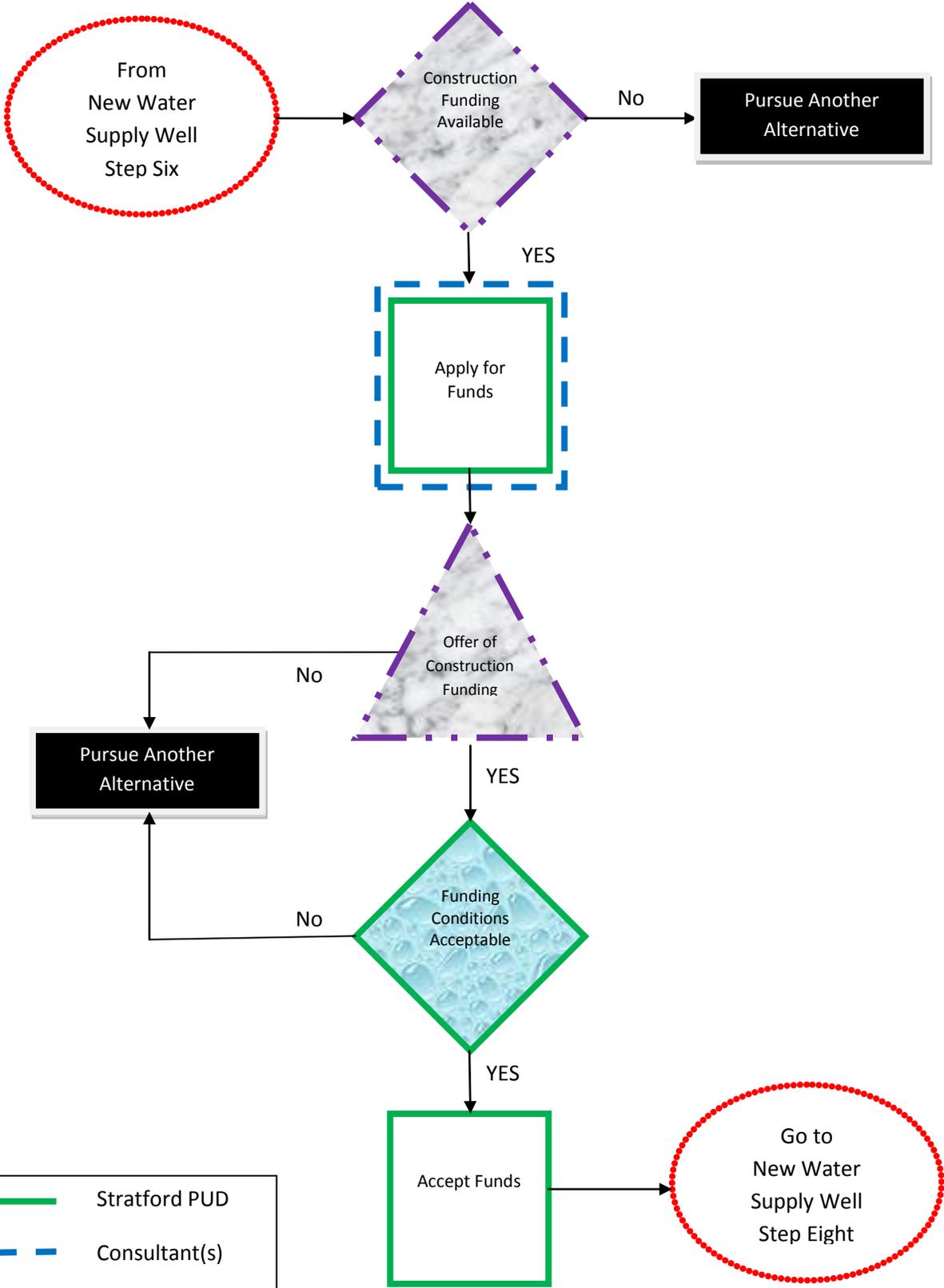


Stratford PUD
New Water Supply Well
Step Six



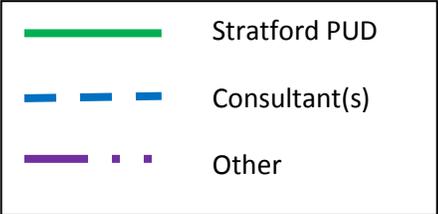
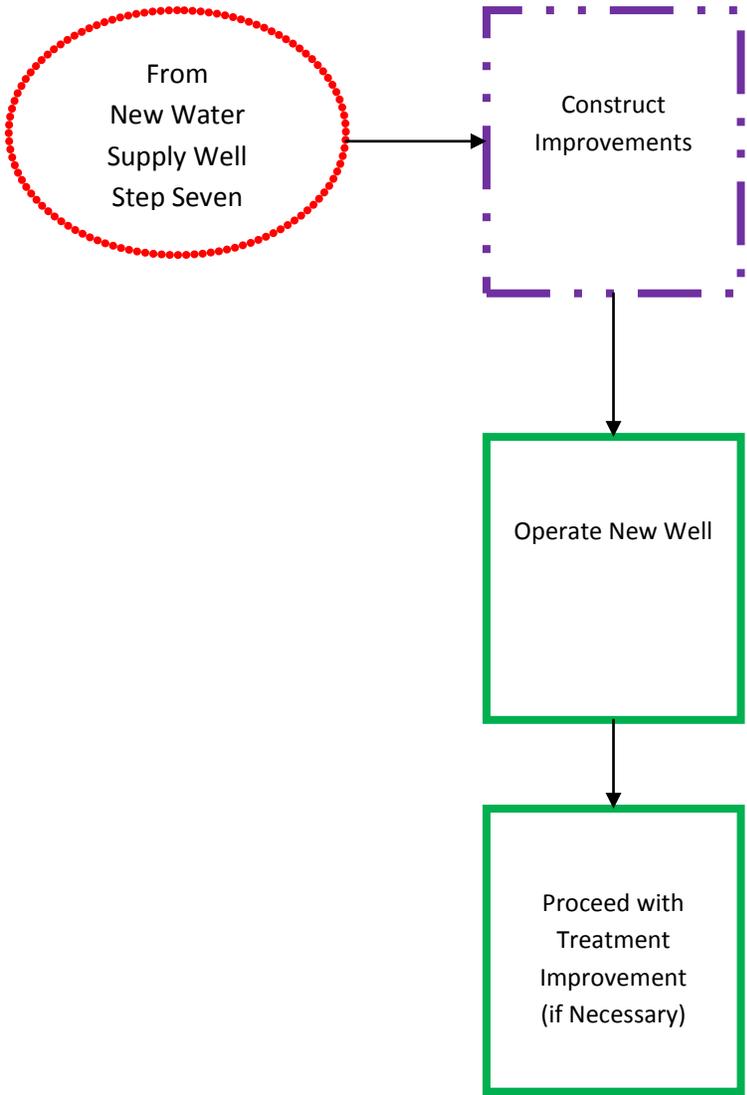
Stratford PUD New Water Supply Well Step Seven

Offer of Construction Funding



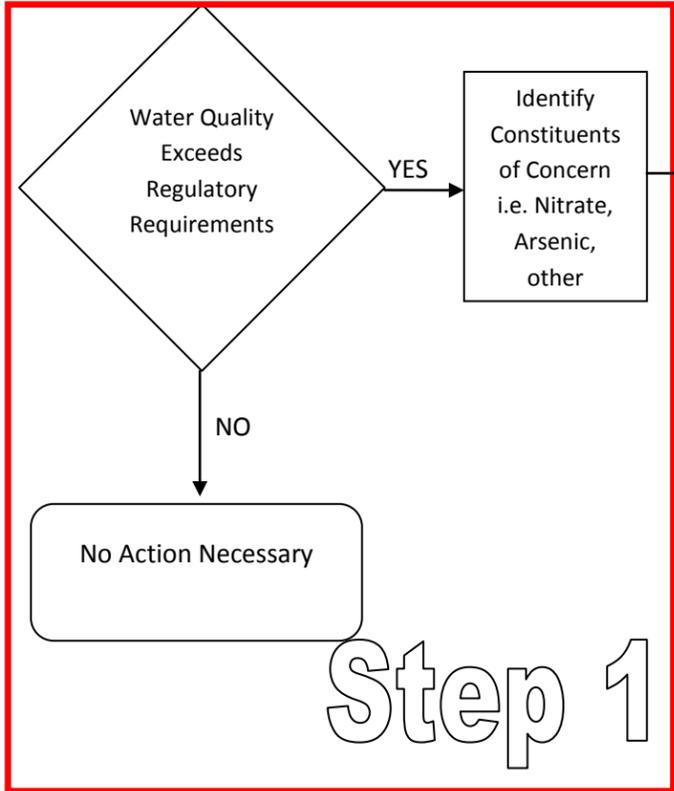
	Stratford PUD
	Consultant(s)
	Other

Stratford PUD
New Water Supply Well
Step Eight



Water Treatment Facility
On an Existing Water Supply Well

start

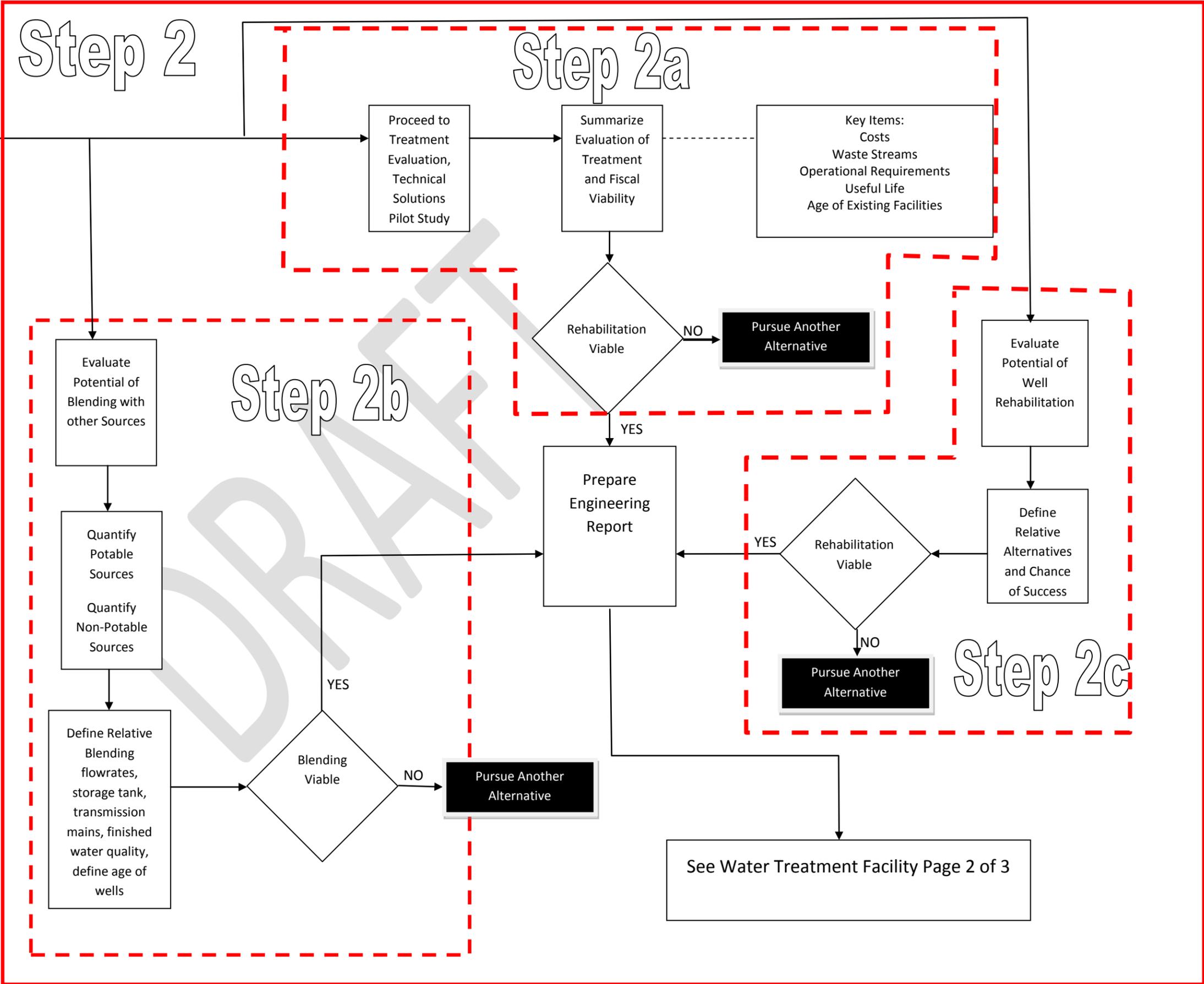


Step 2

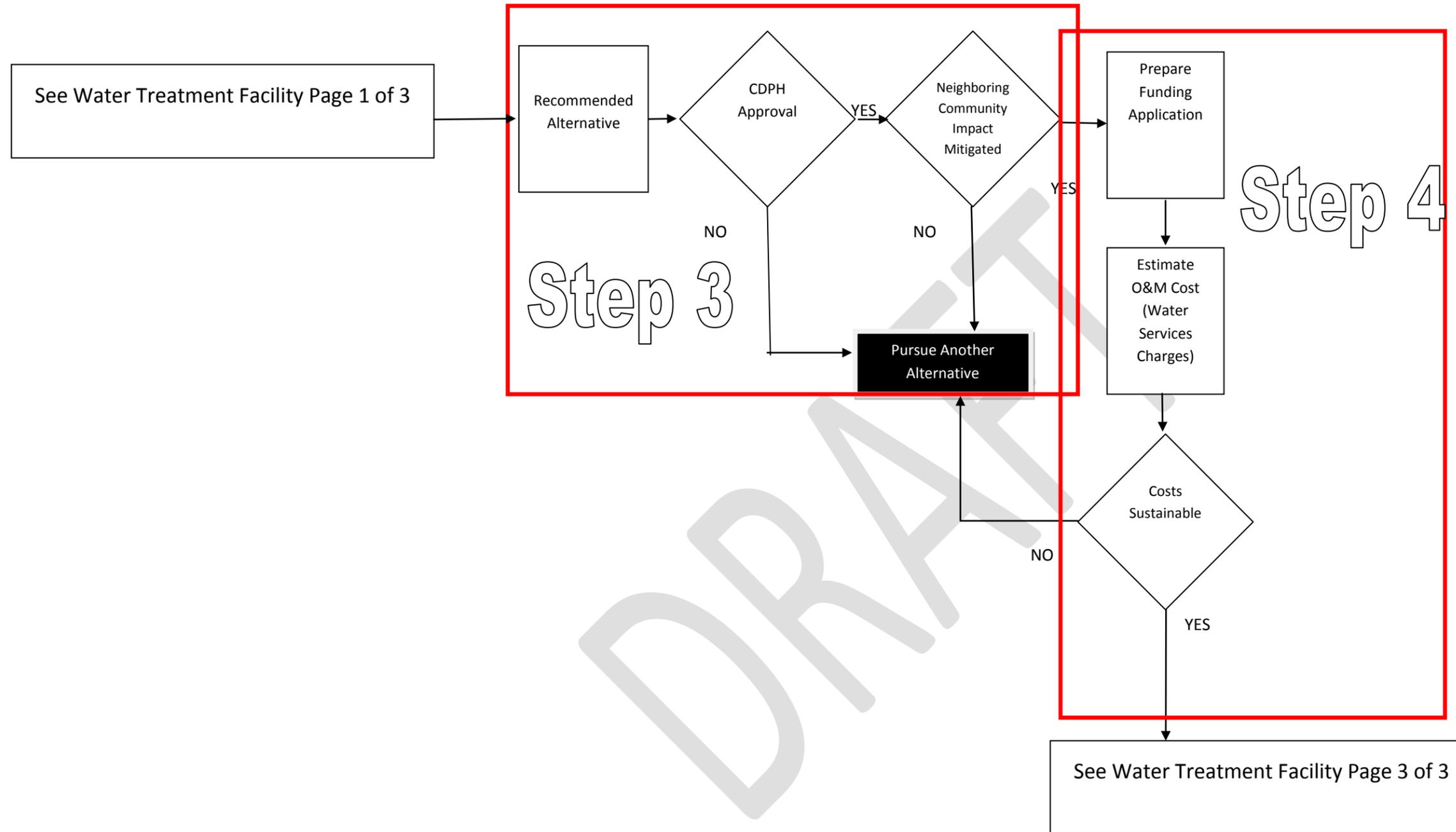
Step 2a

Step 2b

Step 2c



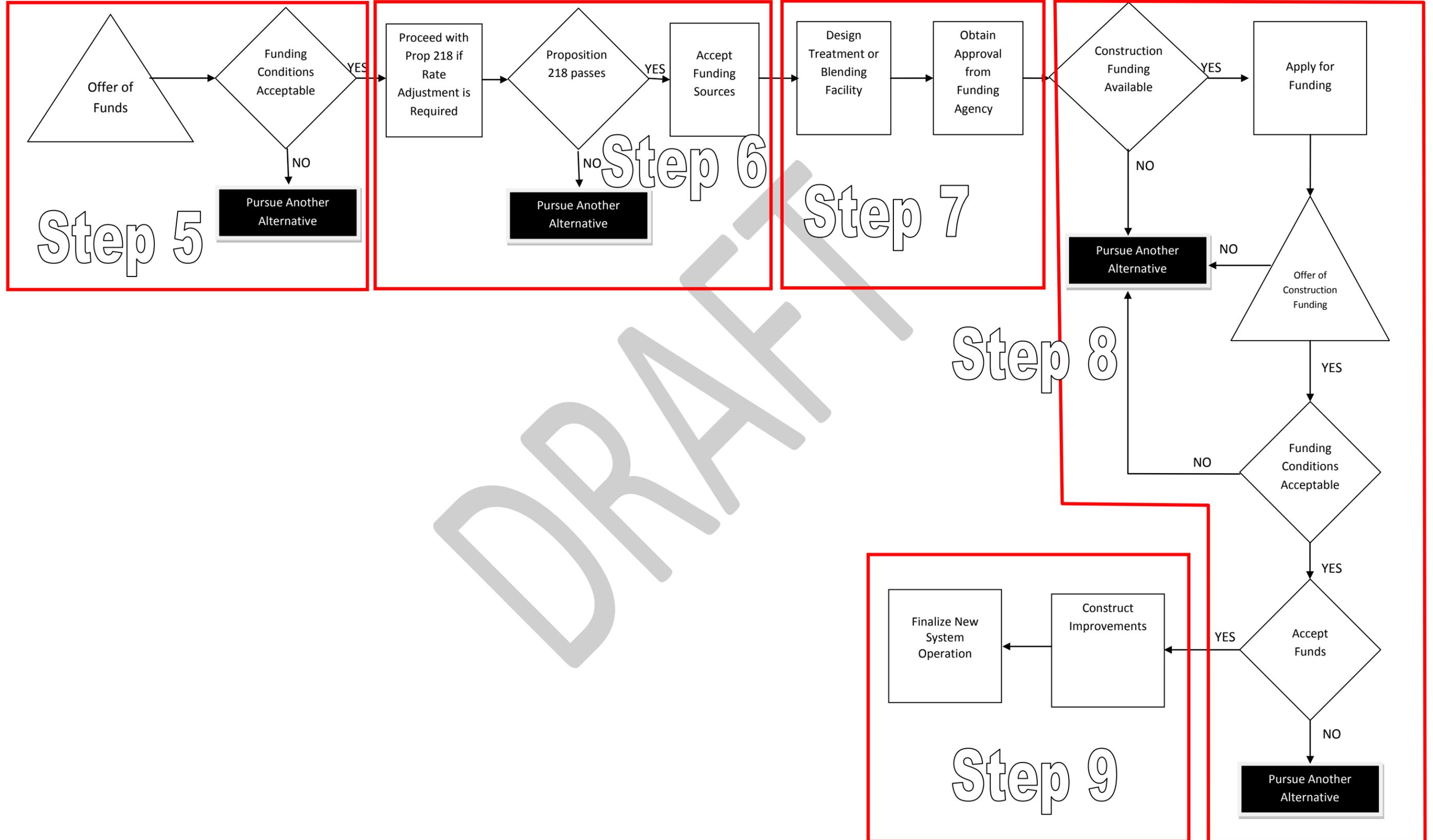
Water Treatment Facility
On an Existing Water Supply Well



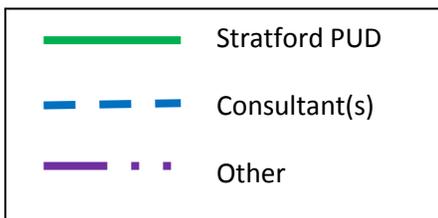
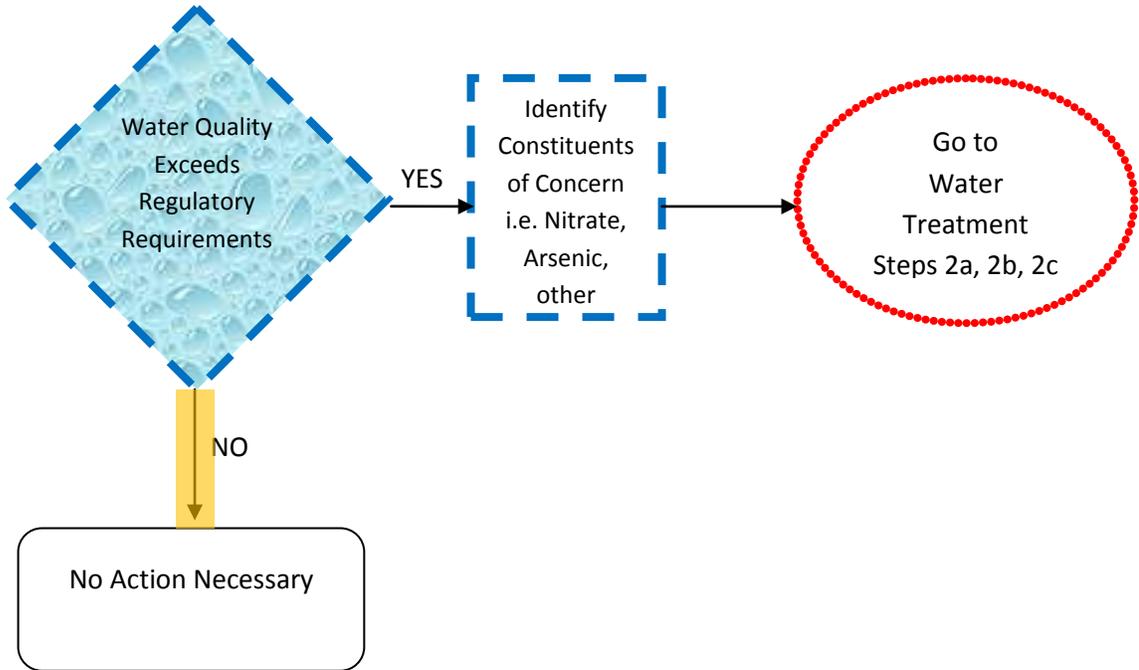
See Water Treatment Facility Page 2 of 3

Water Treatment Facility On an Existing Water Supply Well

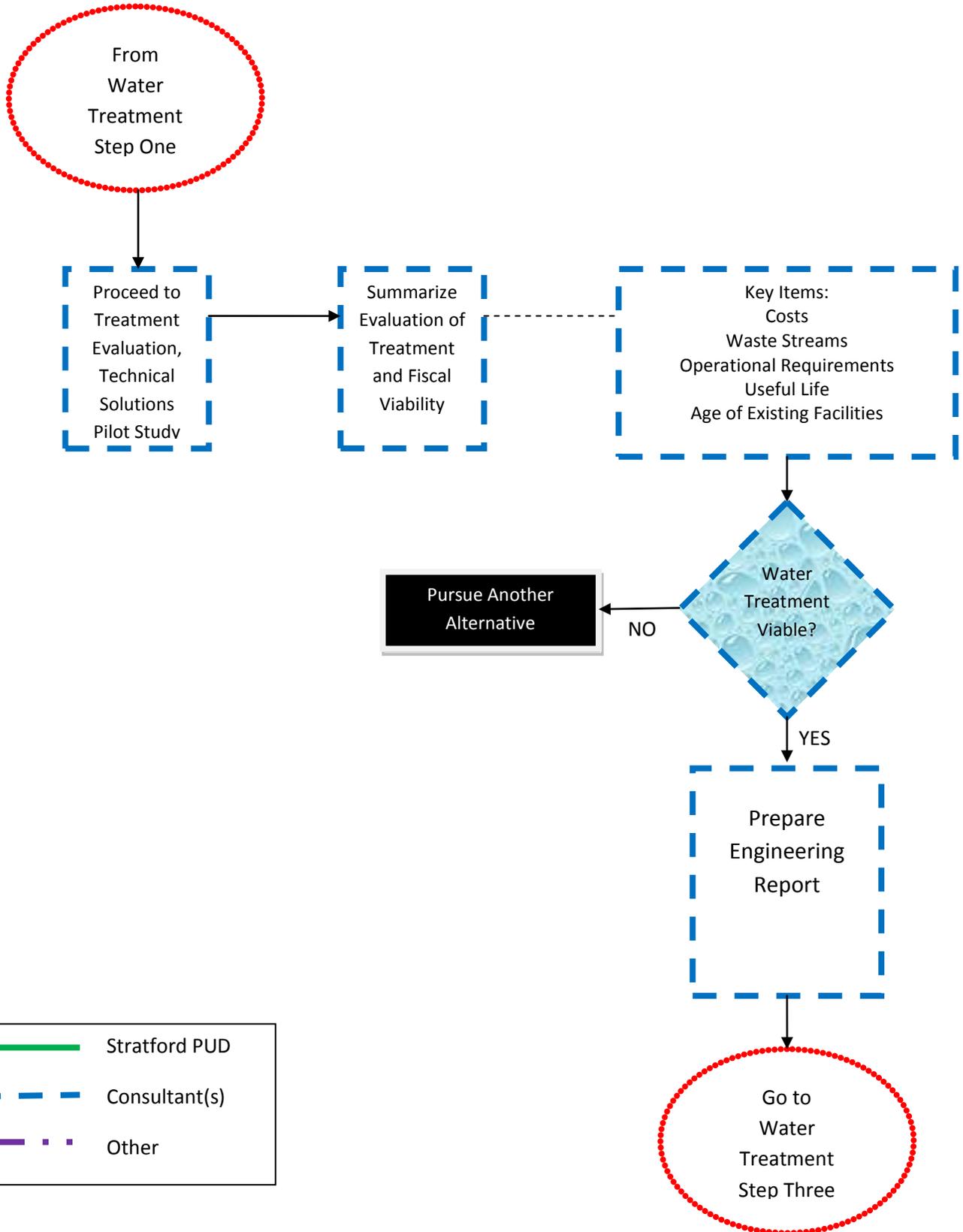
Stratford PUD



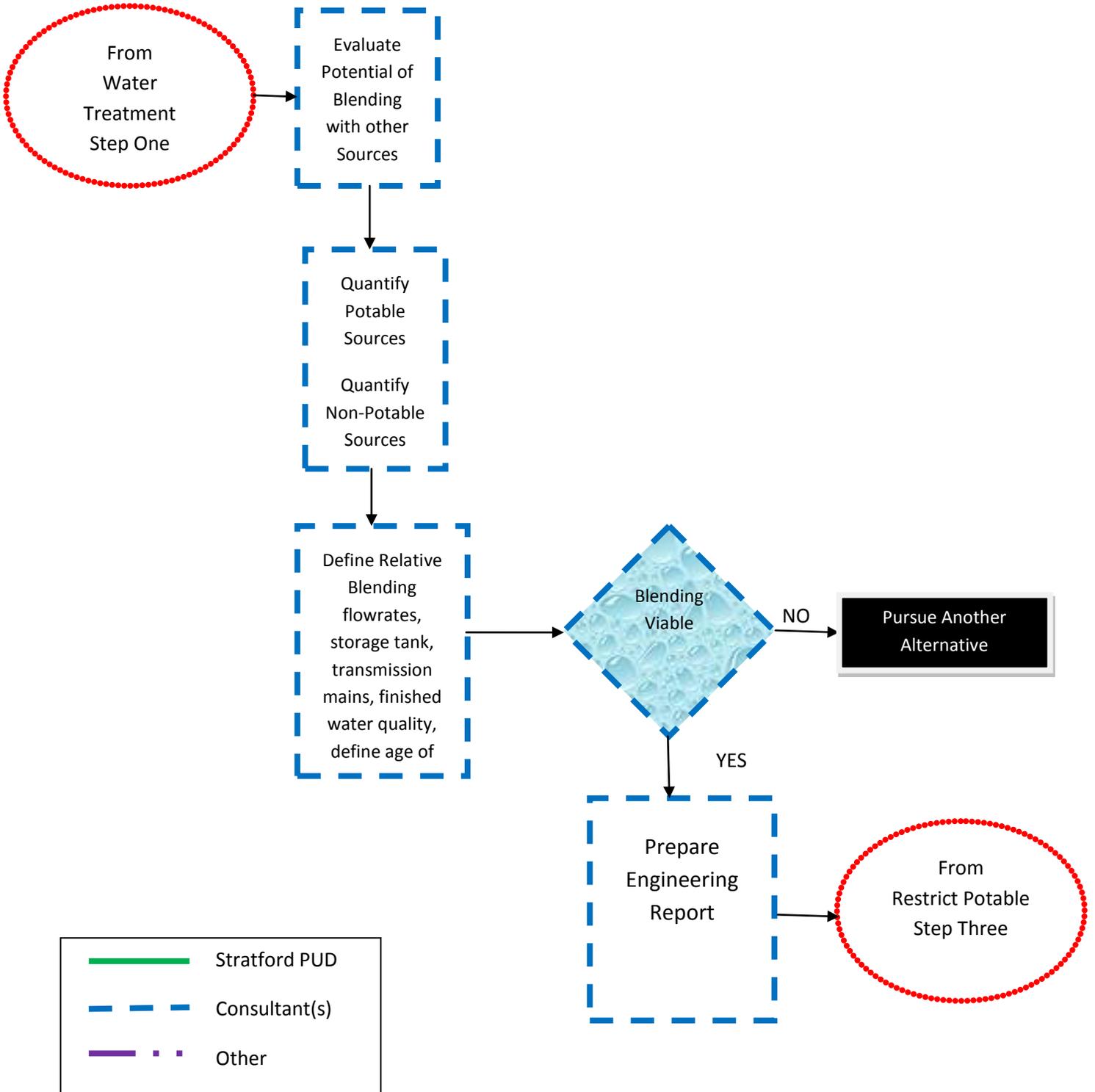
Stratford PUD
Water Treatment Facility
On a New or Existing Water supply Well
Step One



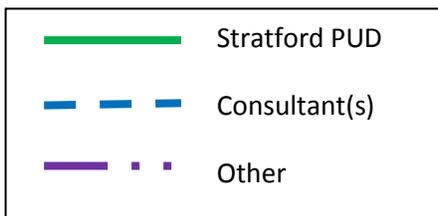
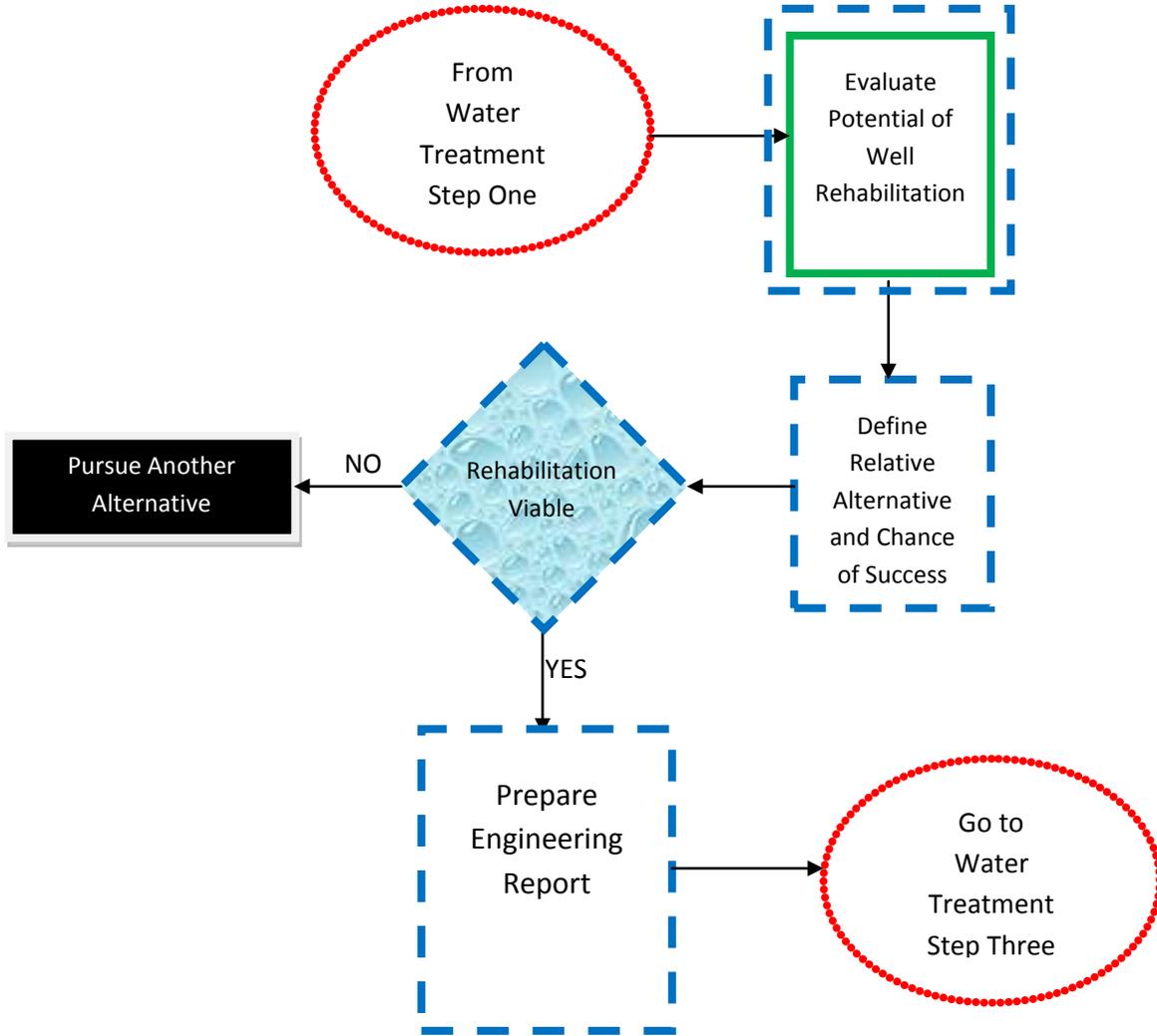
Stratford PUD
Water Treatment Facility
On a New or Existing Water supply Well
Step 2a



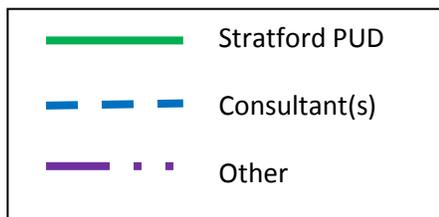
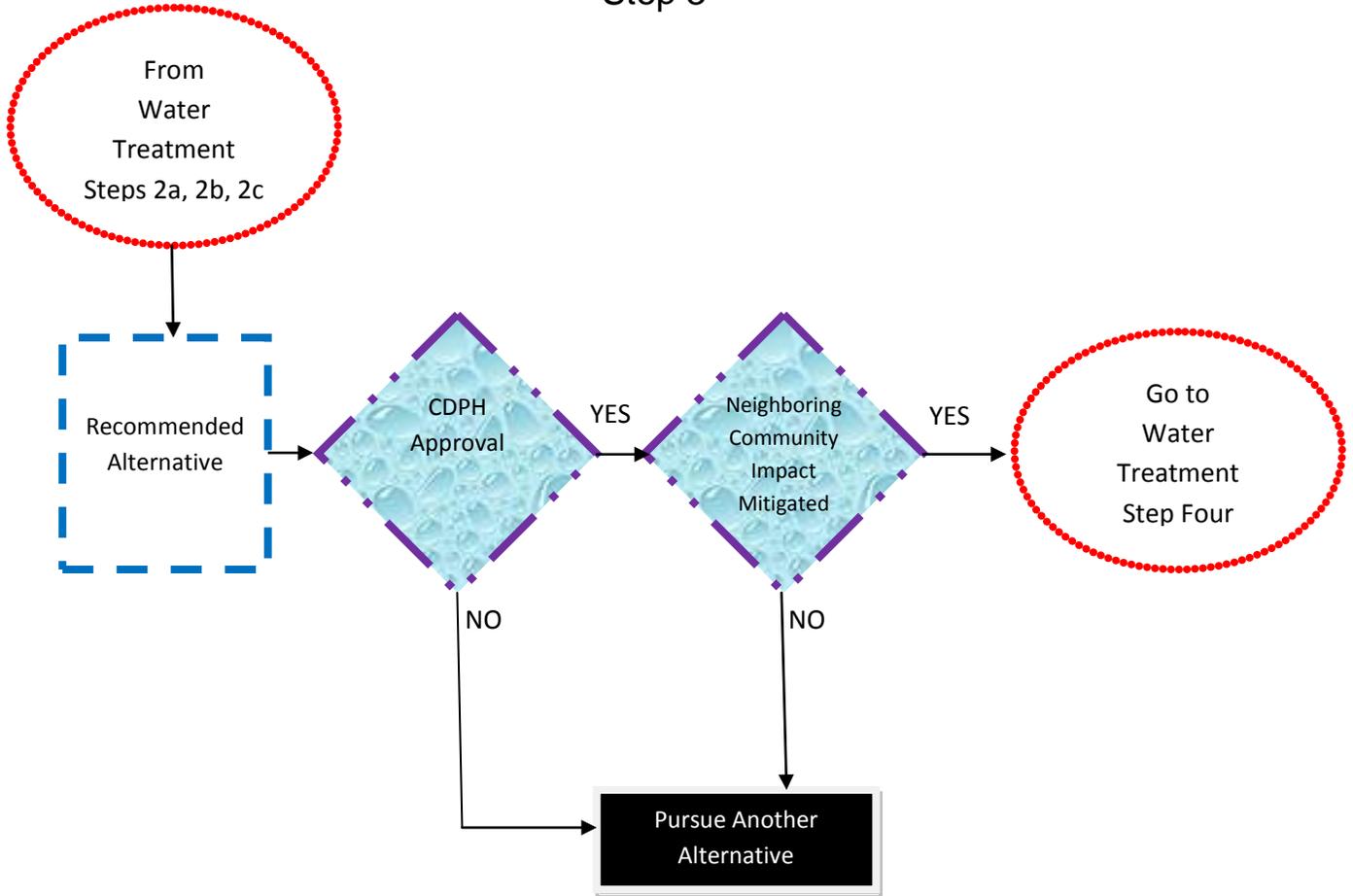
Stratford PUD
Water Treatment Facility
On a New or Existing Water supply Well
Step 2b



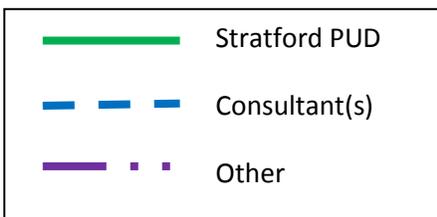
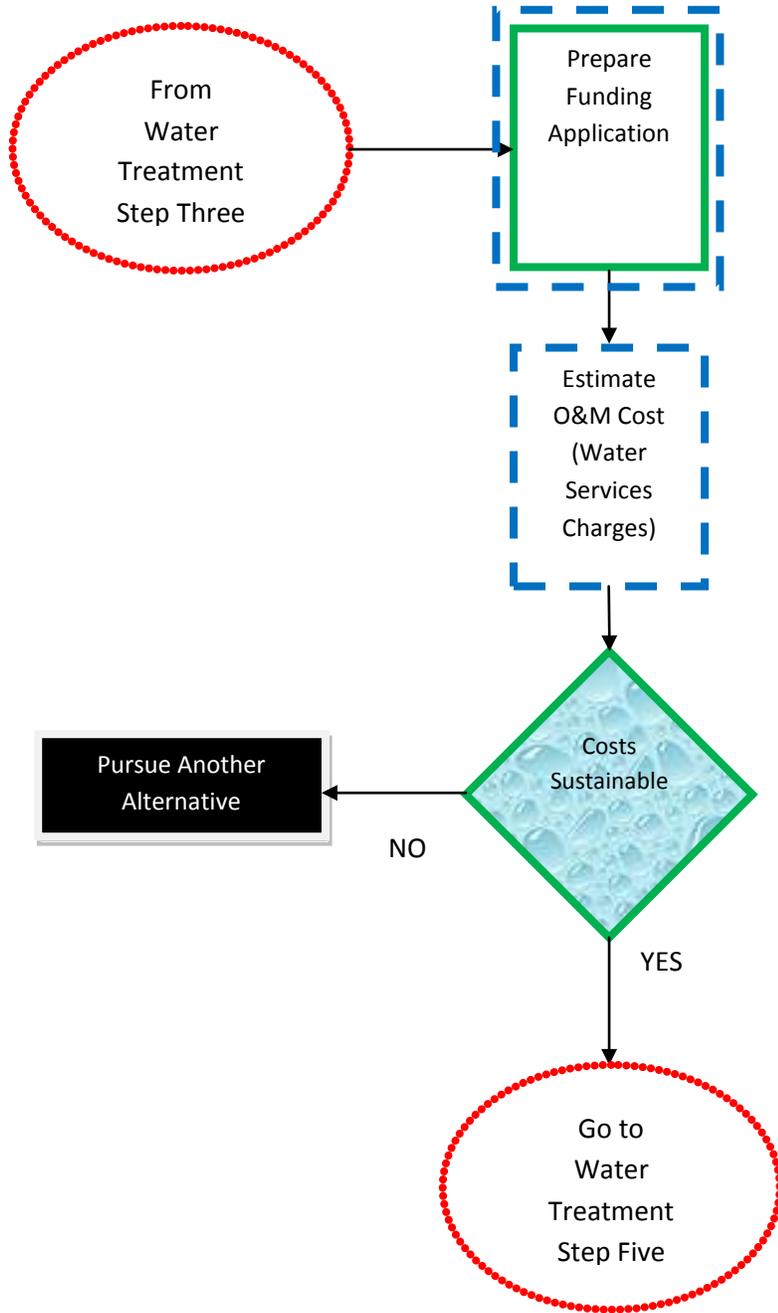
Stratford PUD
Water Treatment Facility
On a New or Existing Water supply Well
Step 2c



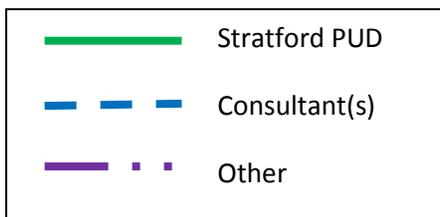
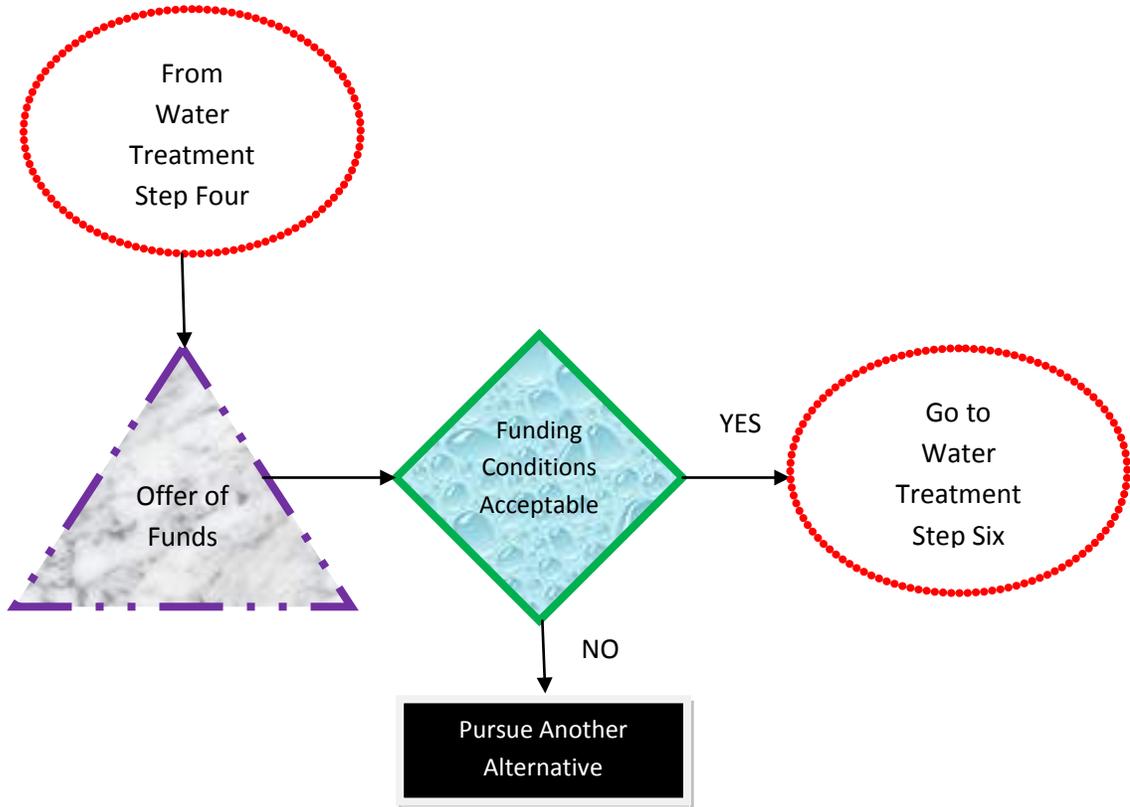
Stratford PUD
Water Treatment Facility
On a New or Existing Water supply Well
Step 3



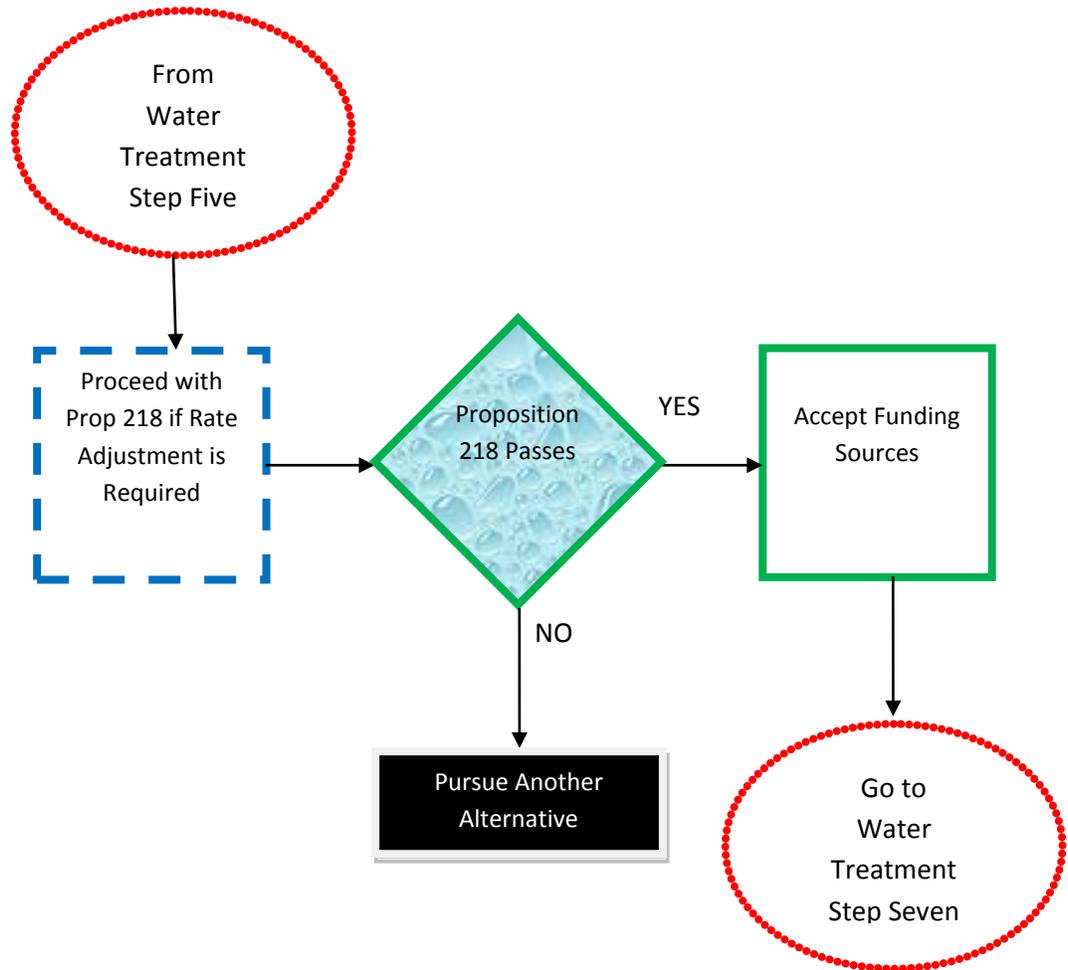
Stratford PUD
Water Treatment Facility
On a New or Existing Water supply Well
Step 4



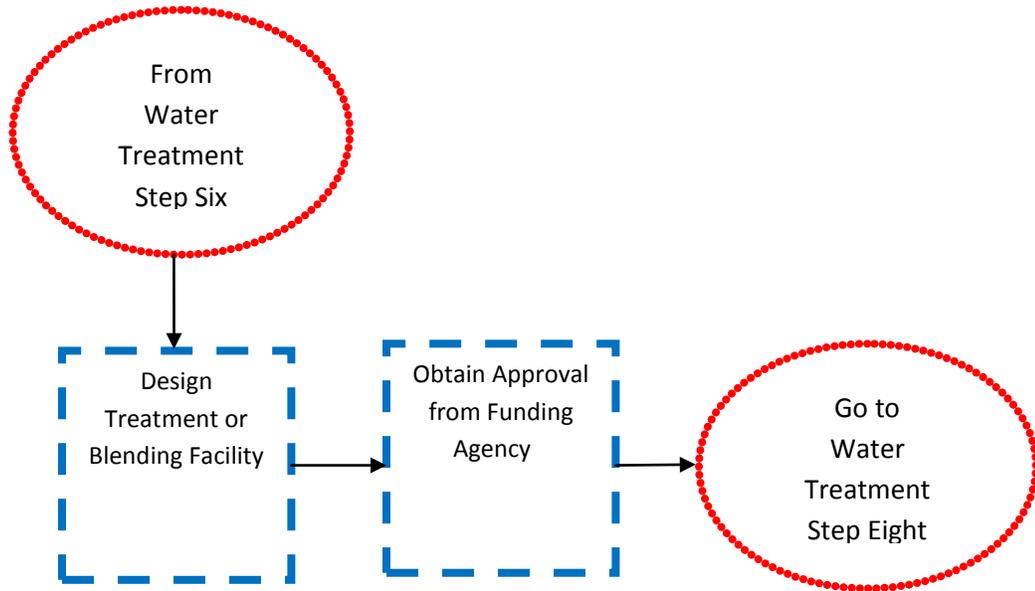
Stratford PUD
Water Treatment Facility
On a New or Existing Water supply Well
Step 5



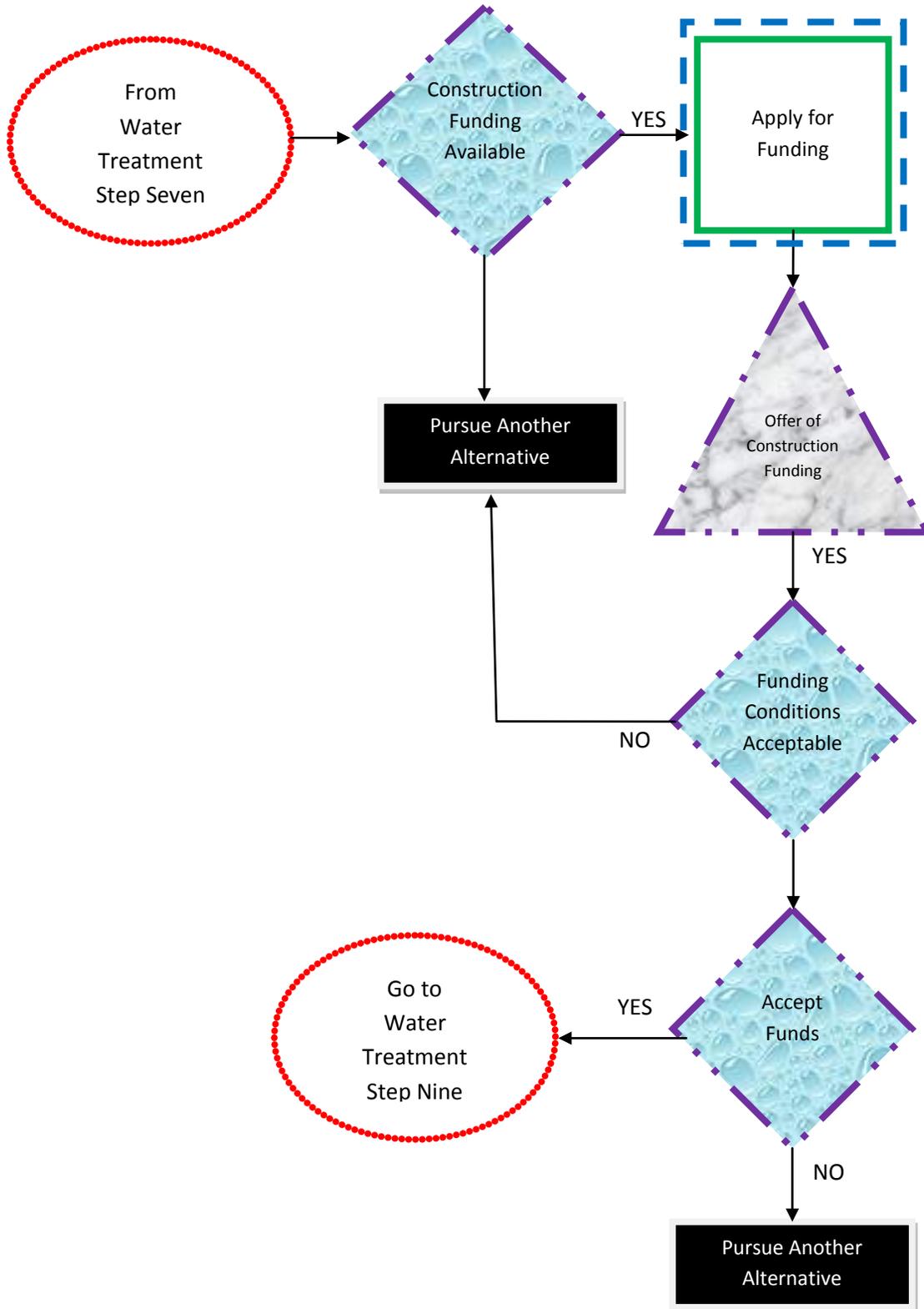
Stratford PUD
Water Treatment Facility
On a New or Existing Water supply Well
Step 6



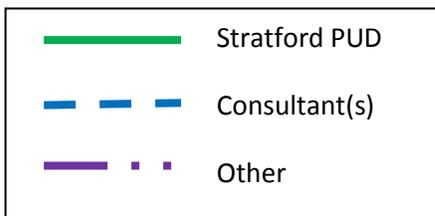
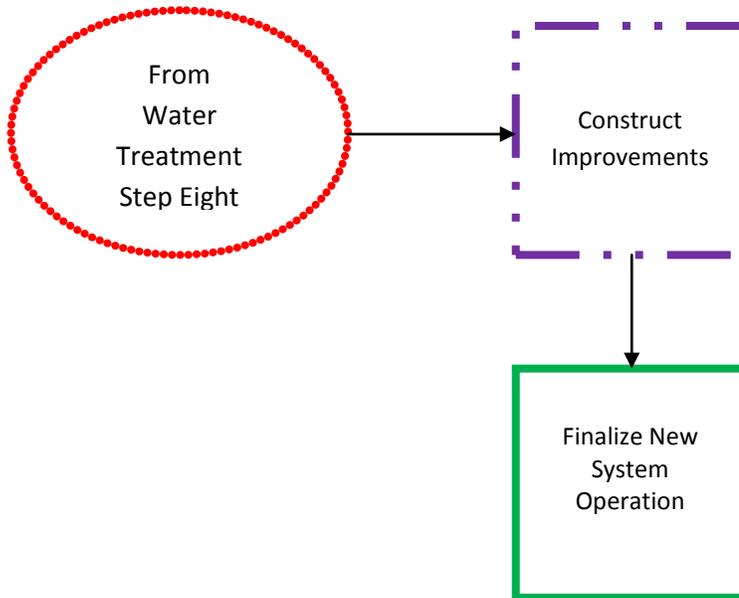
Stratford PUD
Water Treatment Facility
On a New or Existing Water supply Well
Step 7



Stratford PUD
Water Treatment Facility
On a New or Existing Water supply Well
Step 8



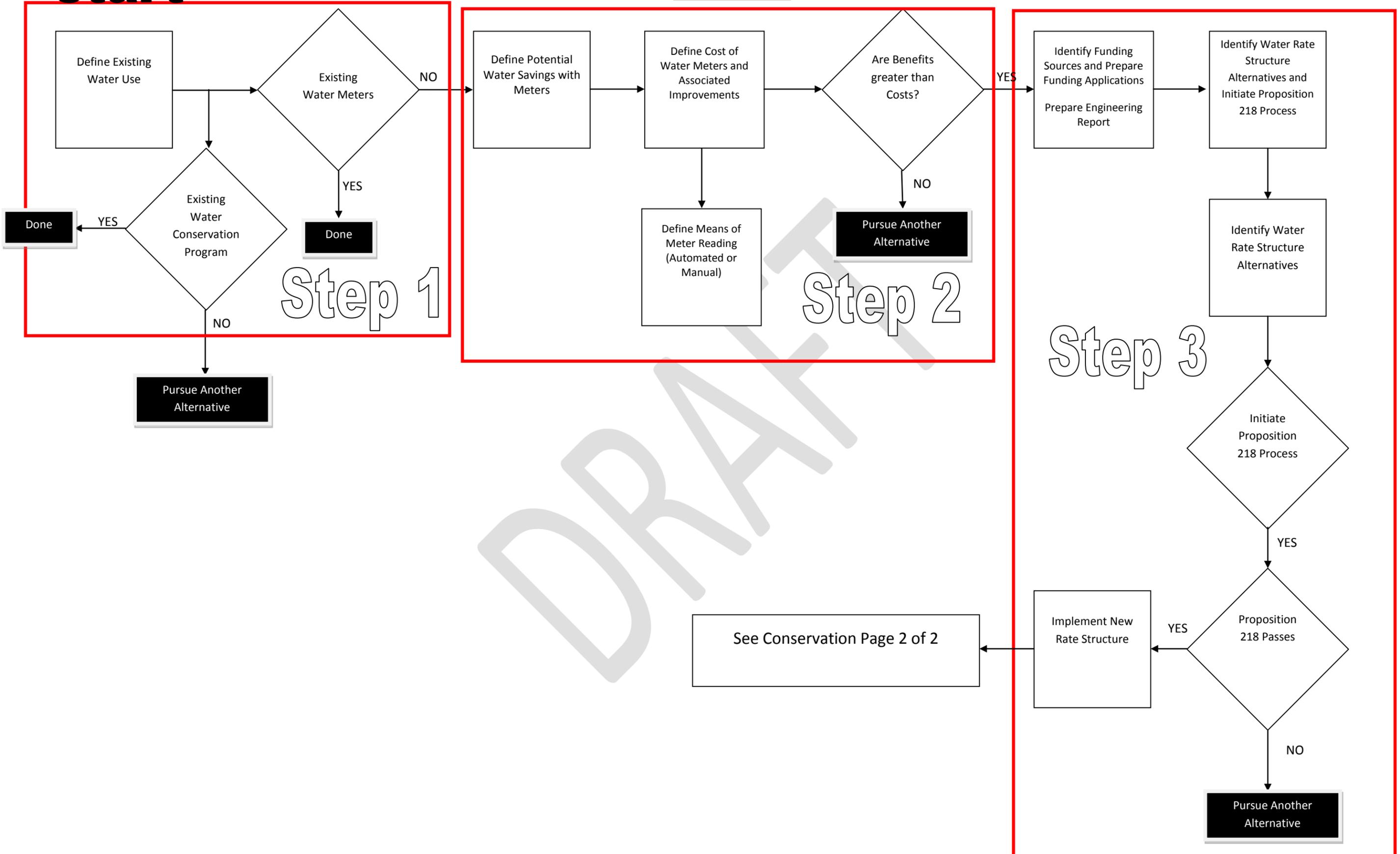
Stratford PUD
Water Treatment Facility
On a New or Existing Water supply Well
Step 9

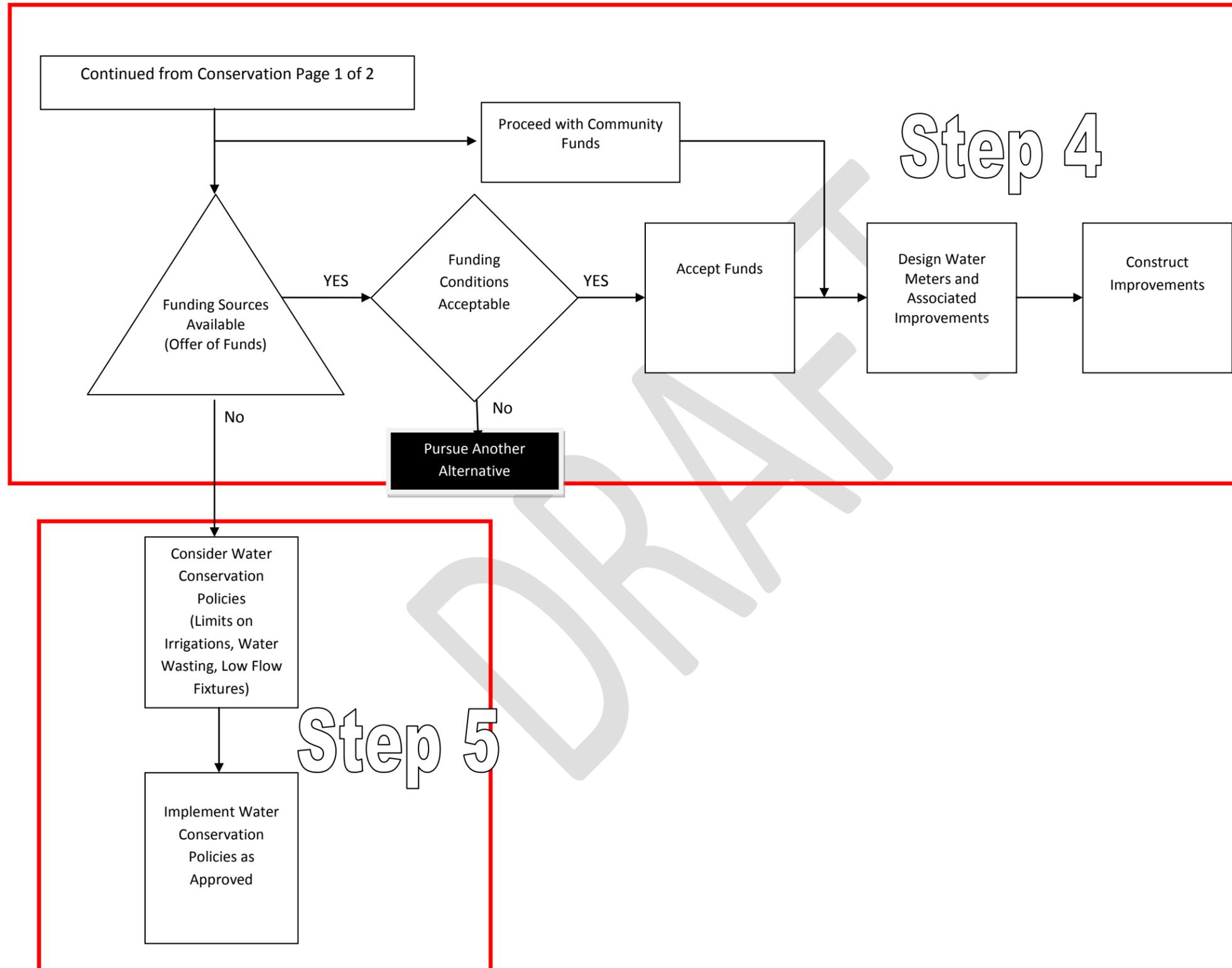


start

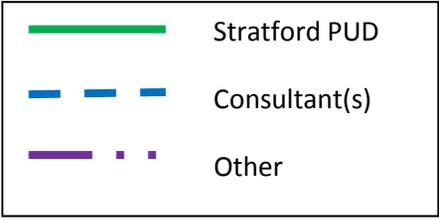
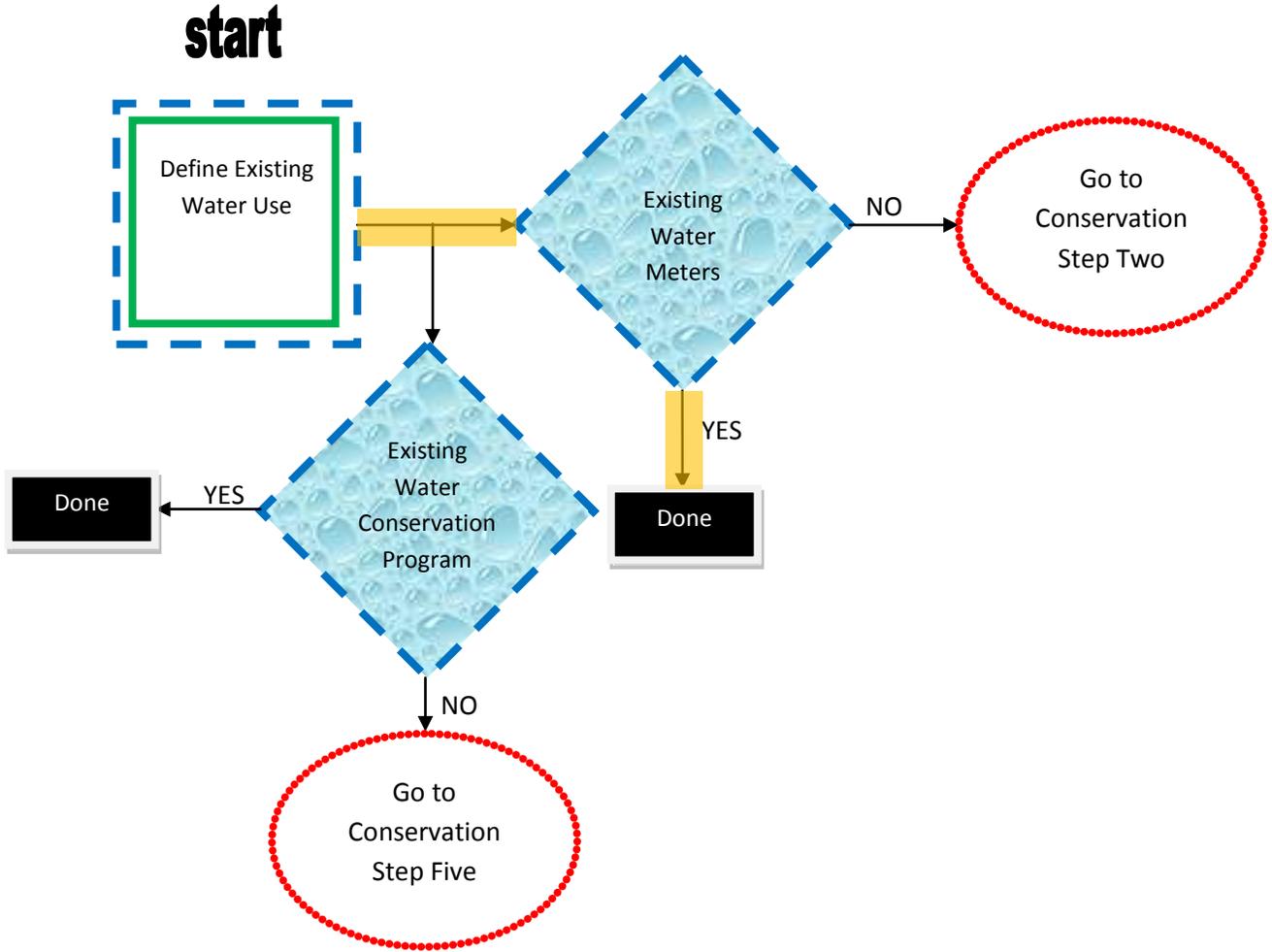
Conservation

Stratford PUD

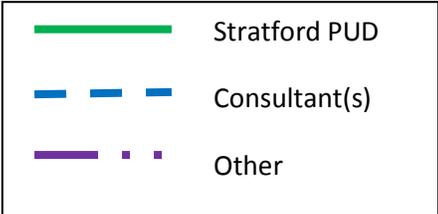
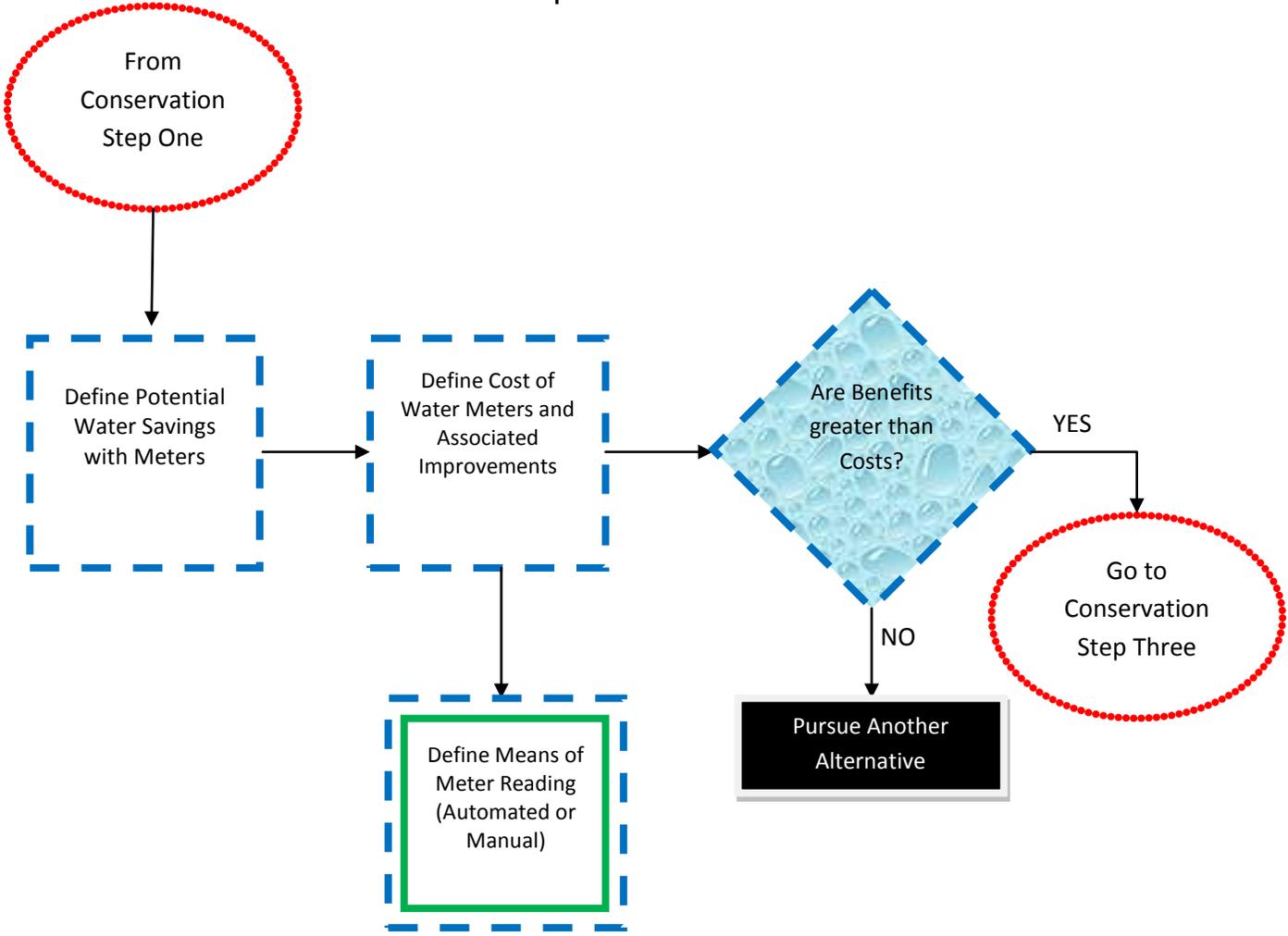




Stratford PUD
Conservation
Step One



Stratford PUD Conservation Step Two



Stratford PUD Conservation Step Three

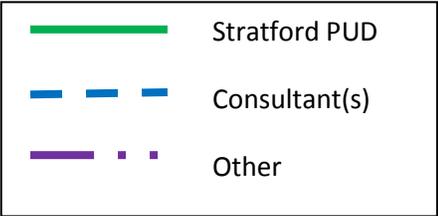
From
Conservation
Step Two



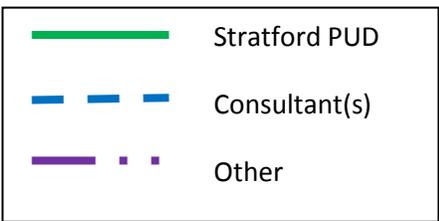
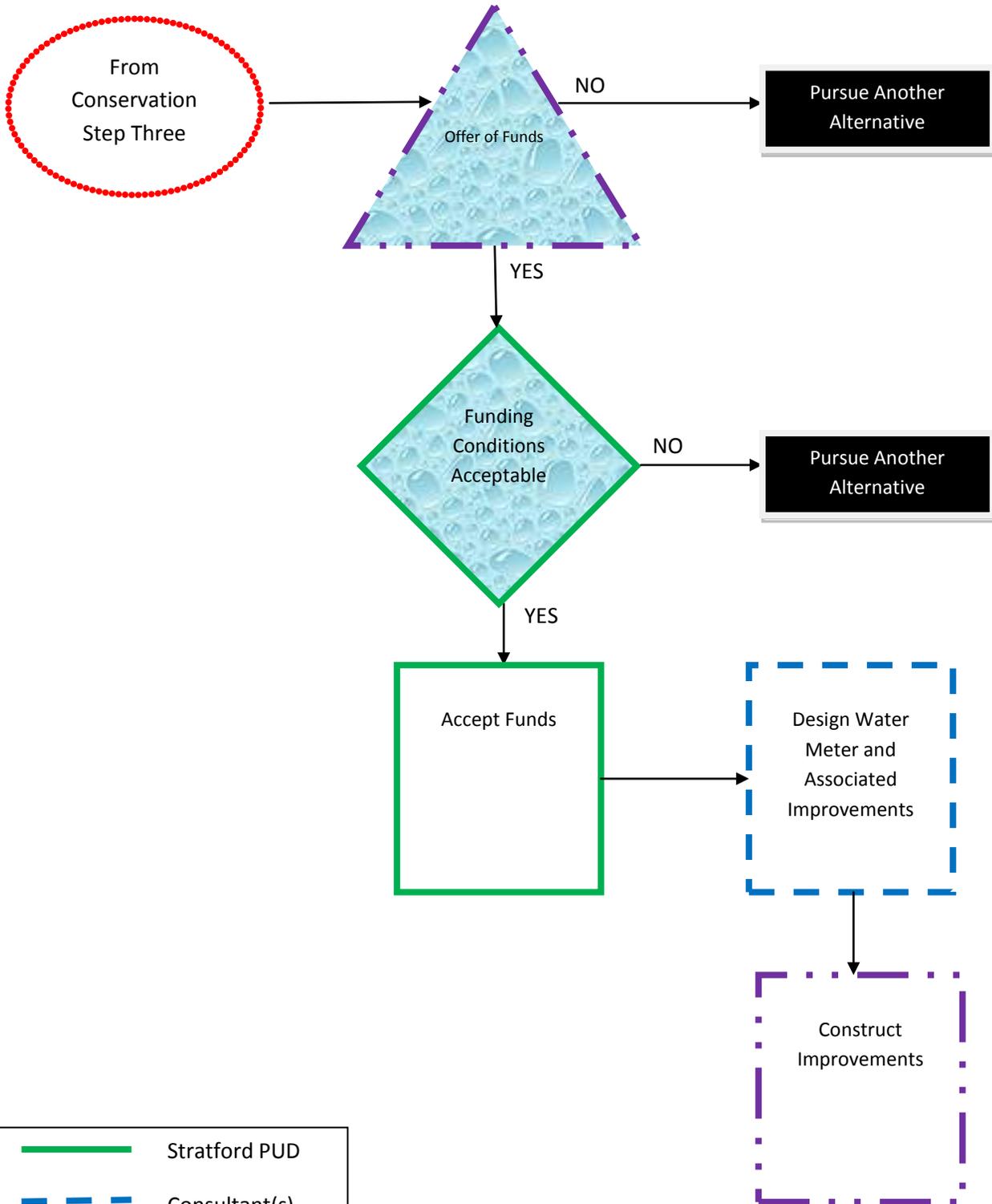
Pursue Another Alternative



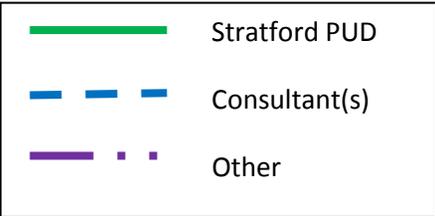
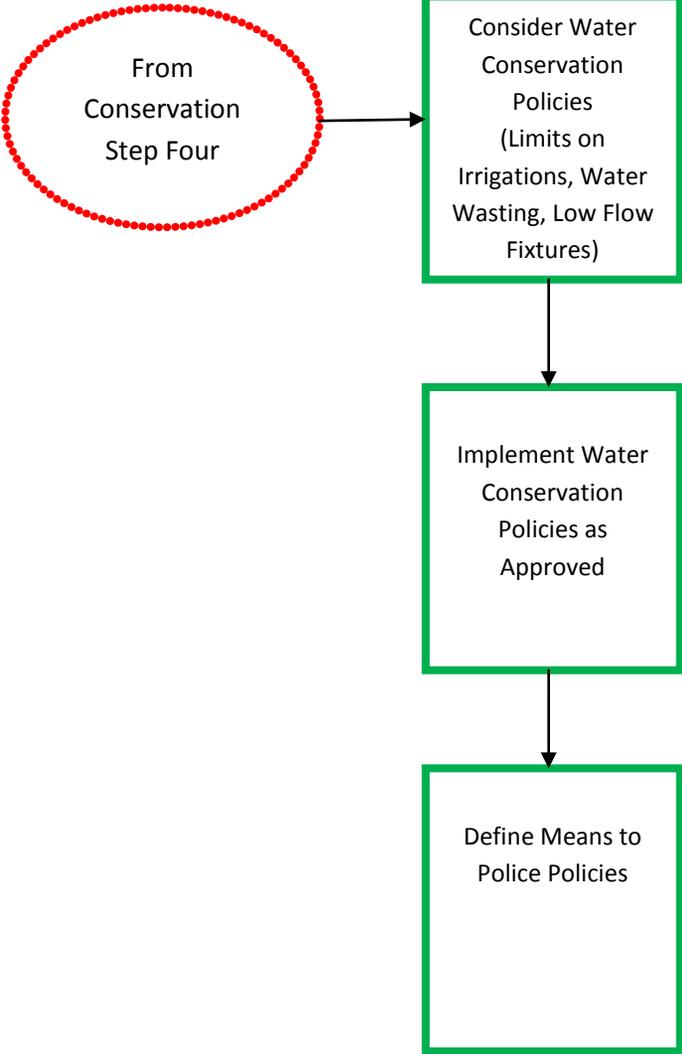
Go to
Conservation
Step Four



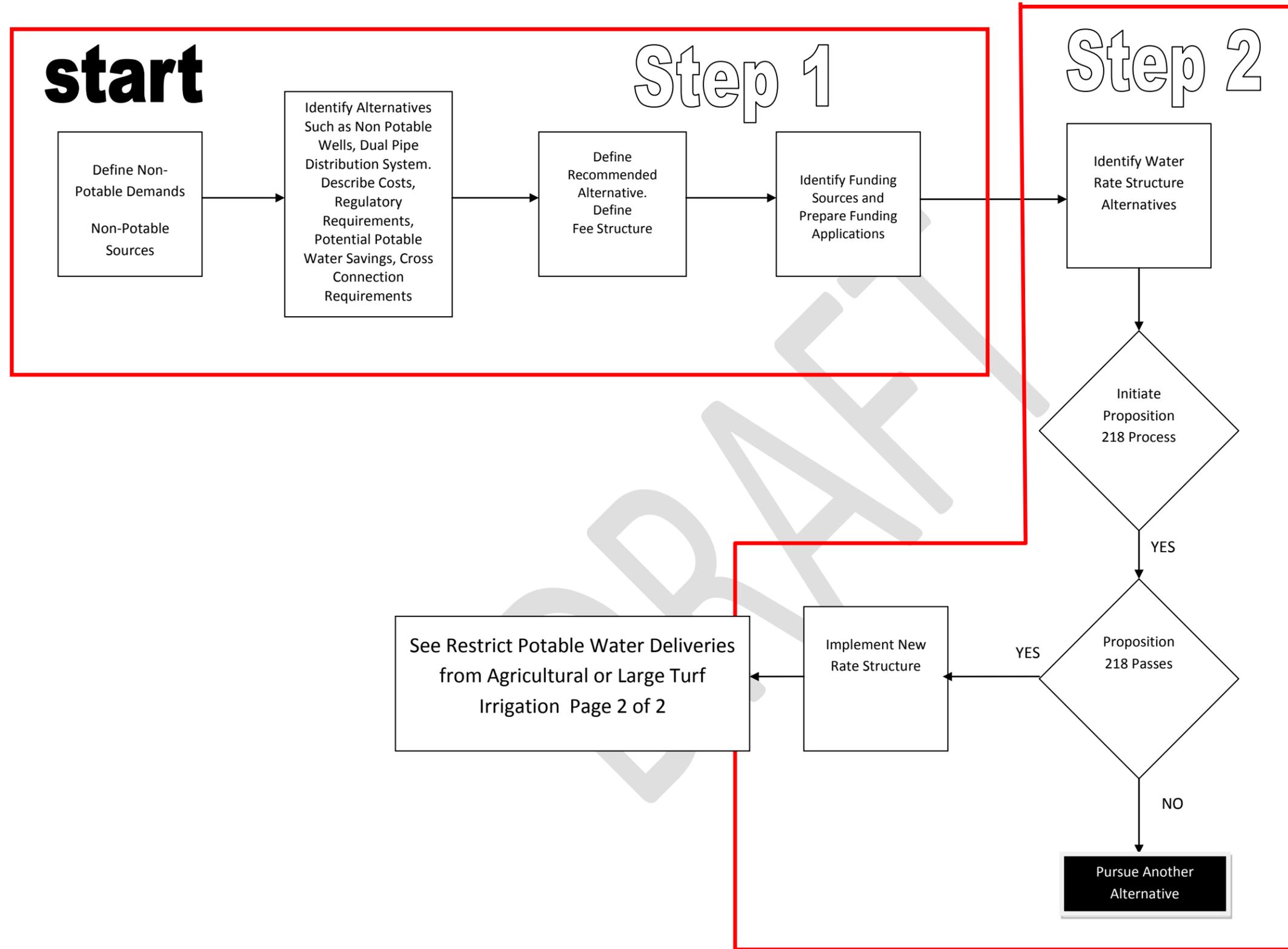
Stratford PUD Conservation Step Four



Stratford PUD
Conservation
Step Five



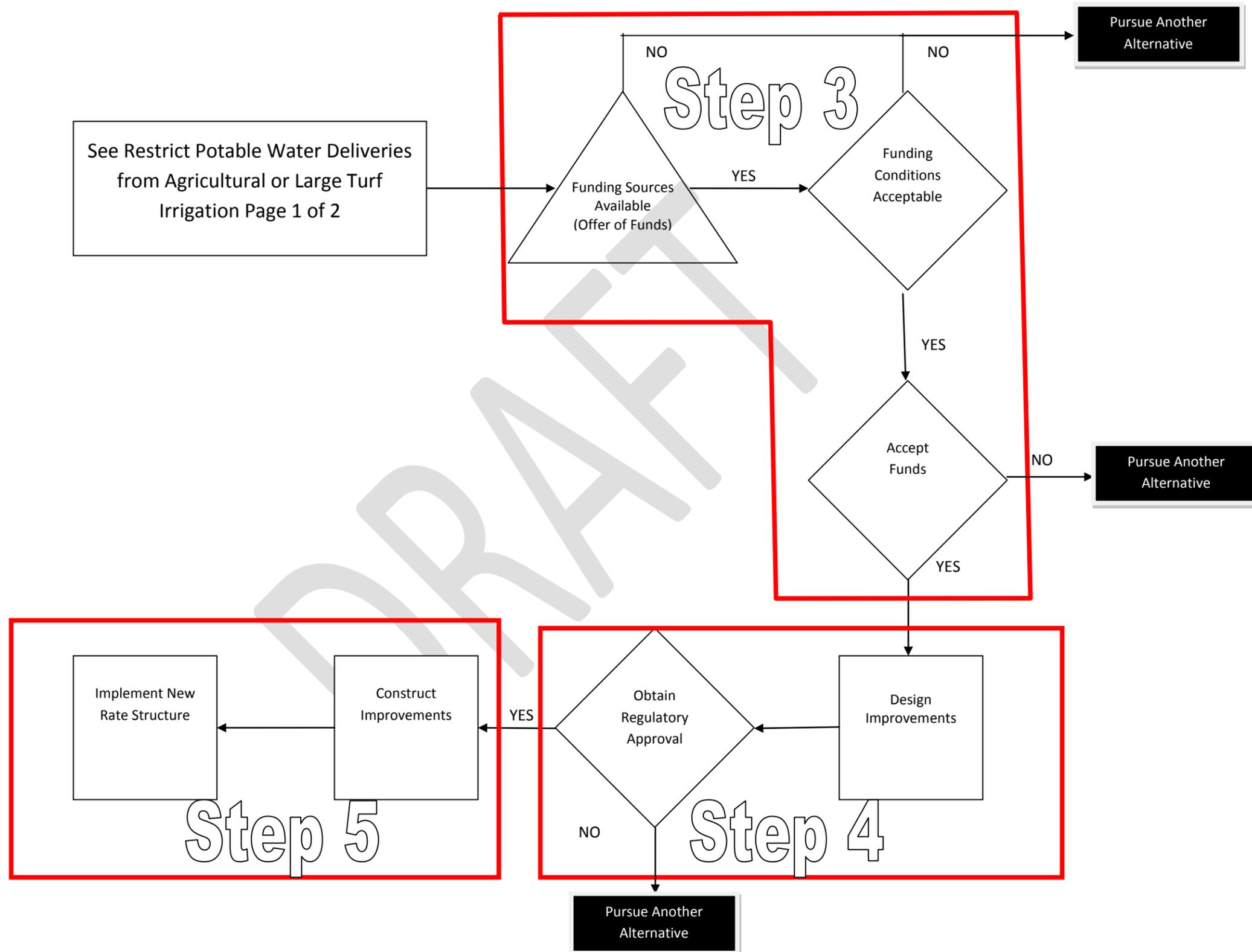
(Potential)



See Restrict Potable Water Deliveries from Agricultural or Large Turf Irrigation Page 2 of 2

Pursue Another Alternative

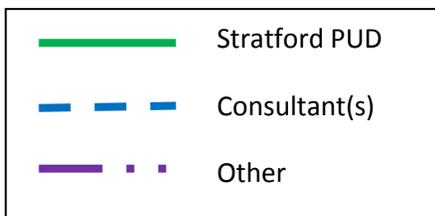
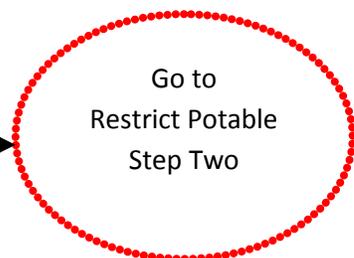
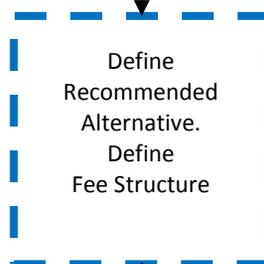
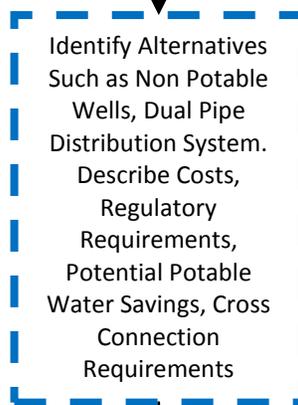
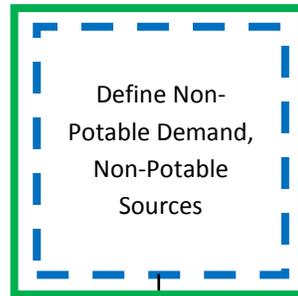
(Potential)



Stratford PUD

Restrict Potable Water Deliveries from Agriculture or Large Turf Irrigation

Step One



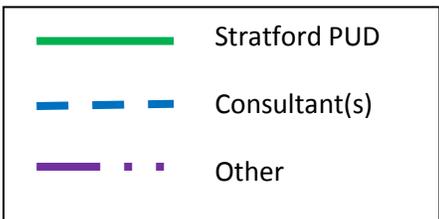
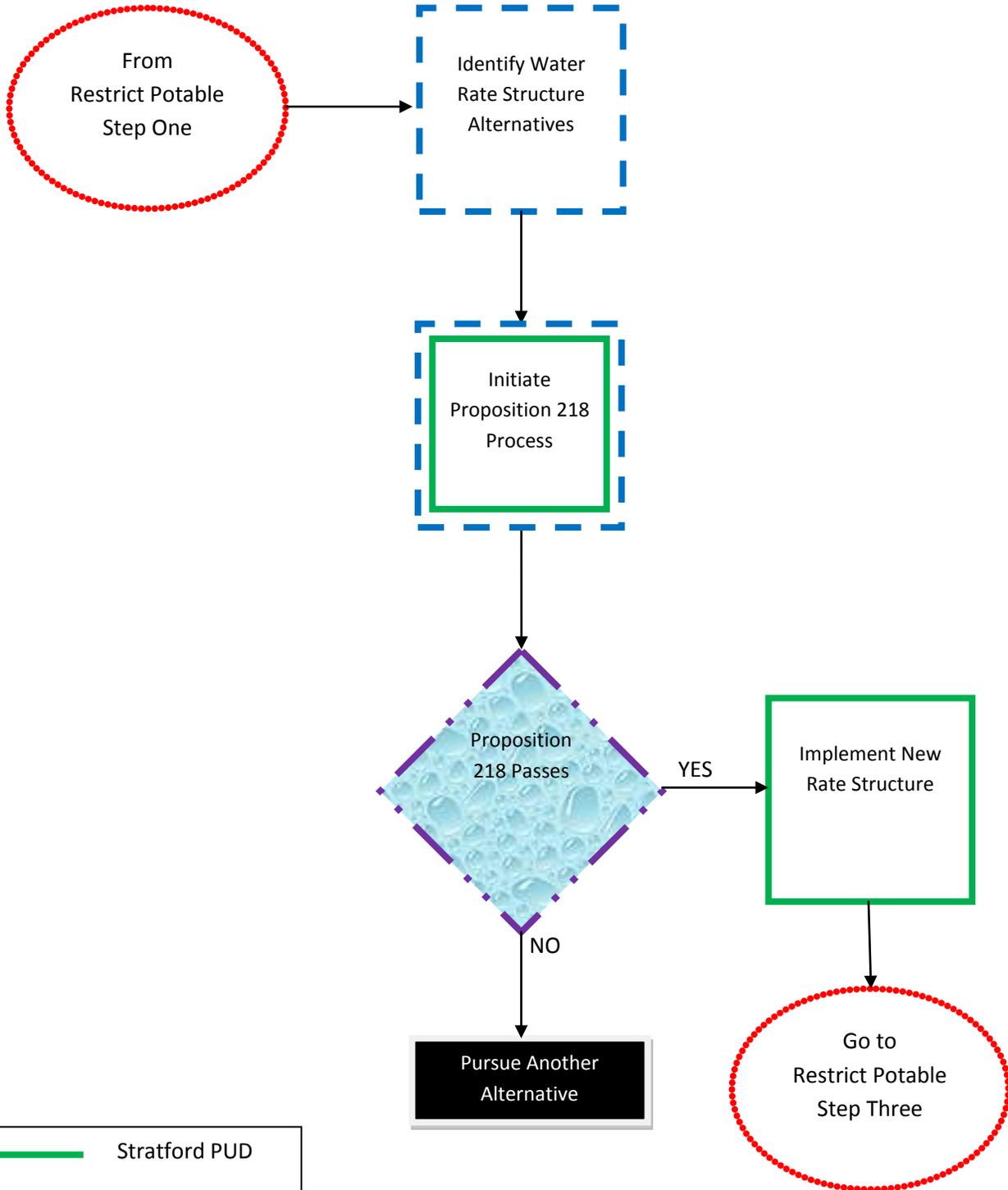
Stratford PUD
Restrict Potable Water Deliveries from Agriculture
or Large Turf Irrigation

Step One

Notes:

Stratford PUD
Restrict Potable Water Deliveries from Agriculture
or Large Turf Irrigation

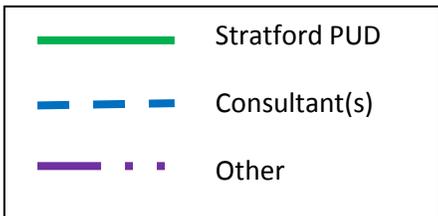
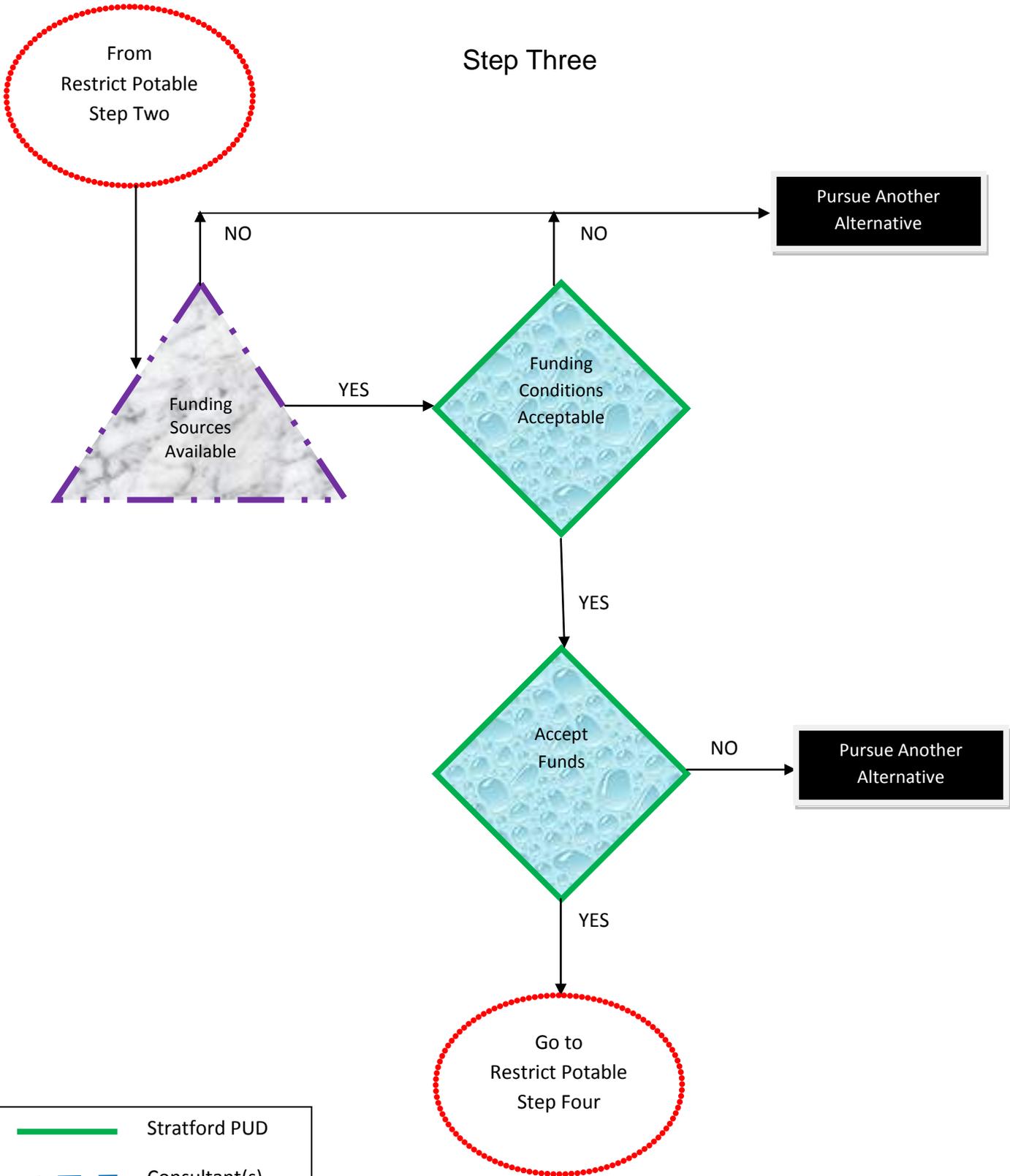
Step Two



Stratford PUD

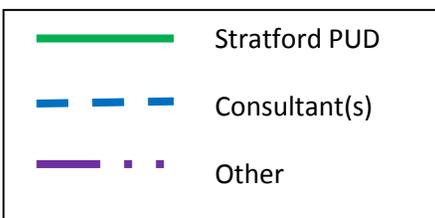
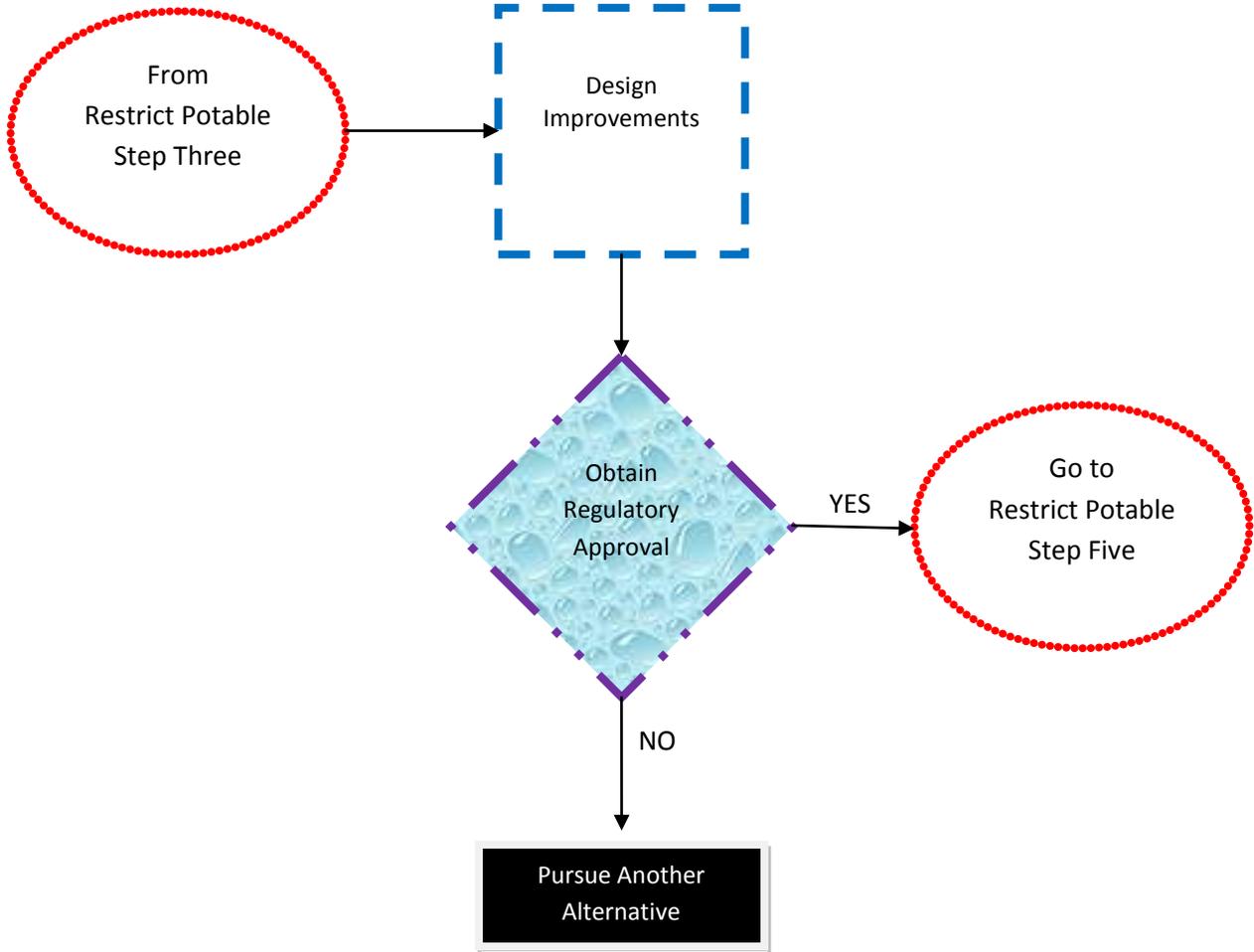
Restrict Potable Water Deliveries from Agriculture or Large Turf Irrigation

Step Three

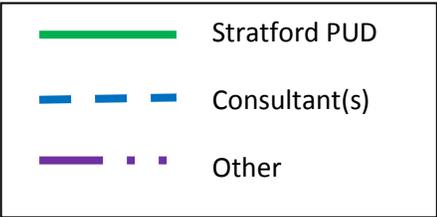
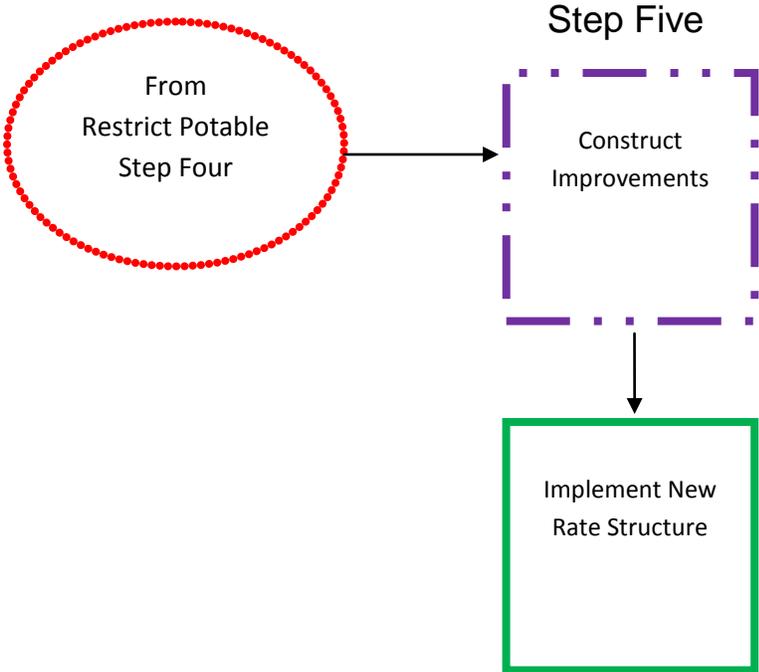


Stratford PUD
Restrict Potable Water Deliveries from Agriculture
or Large Turf Irrigation

Step Four



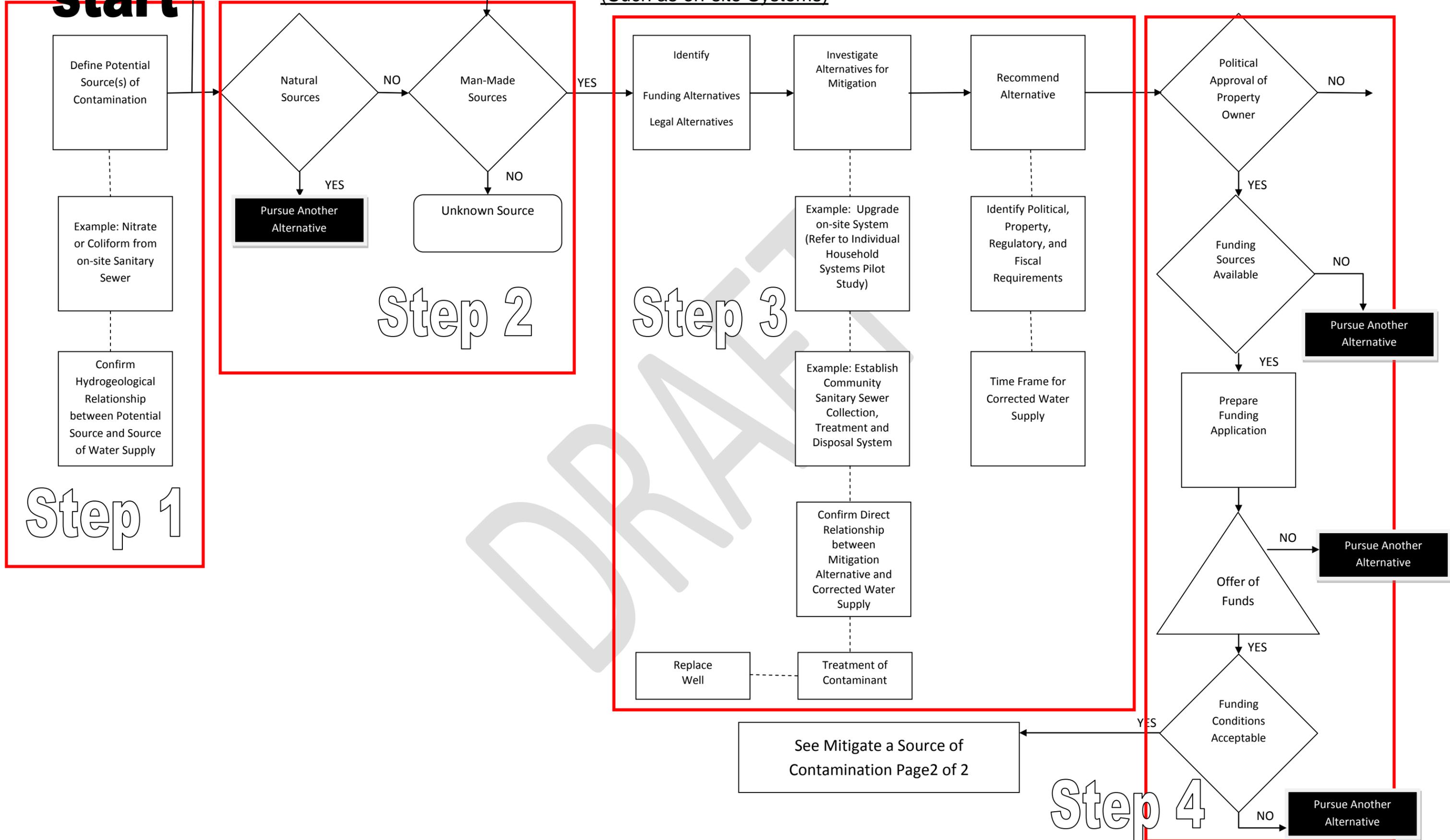
Stratford PUD
Restrict Potable Water Deliveries from Agriculture
or Large Turf Irrigation



start

Mitigate a Source of Contamination (Such as on-site Systems)

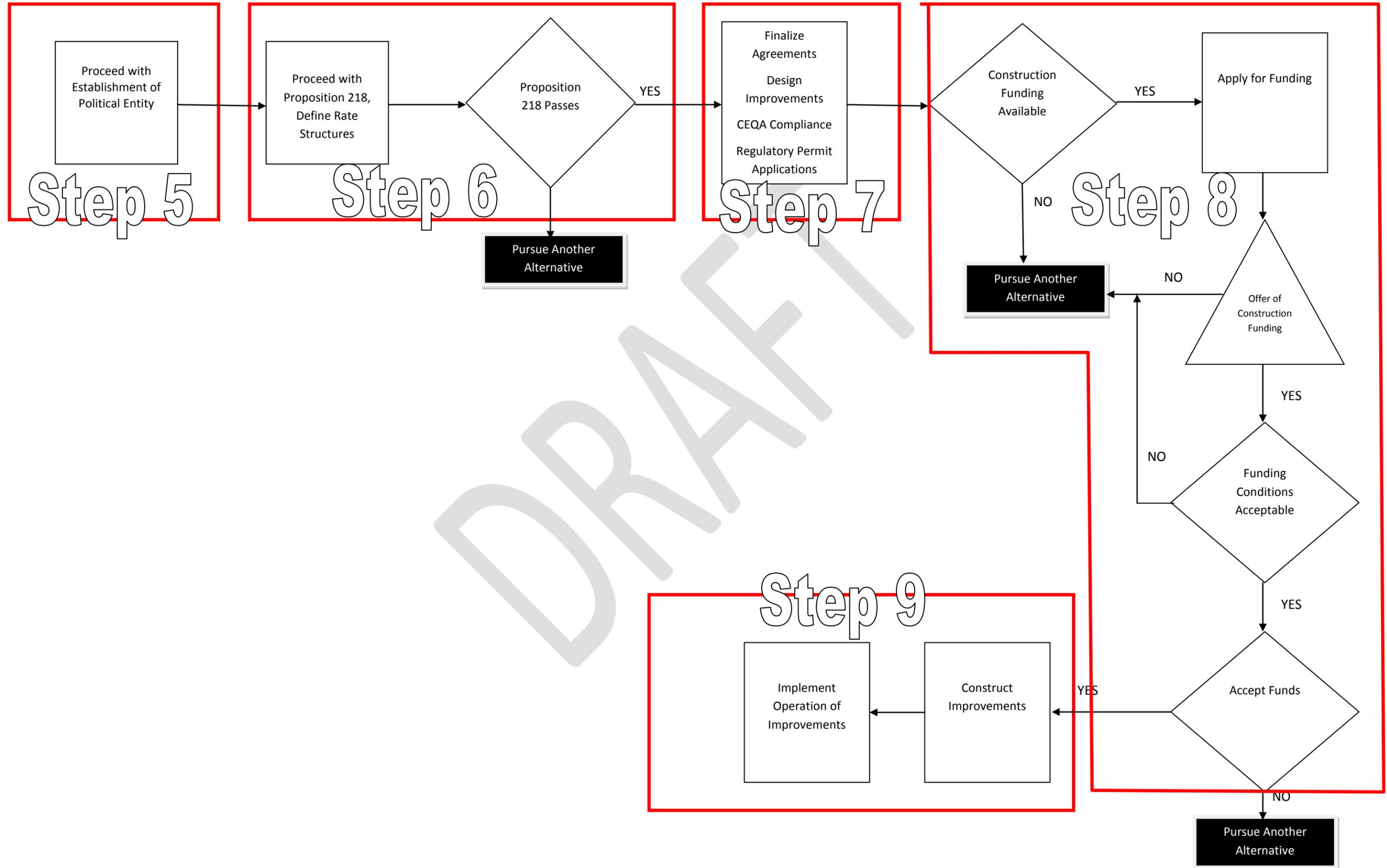
Stratford PUD



See Mitigate a Source of Contamination Page 1 of 2

Mitigate a Source of Contamination (Such as on-site Systems)

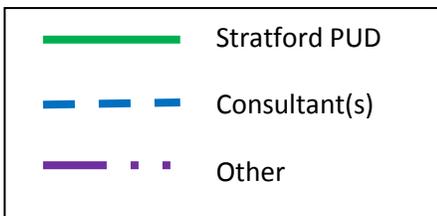
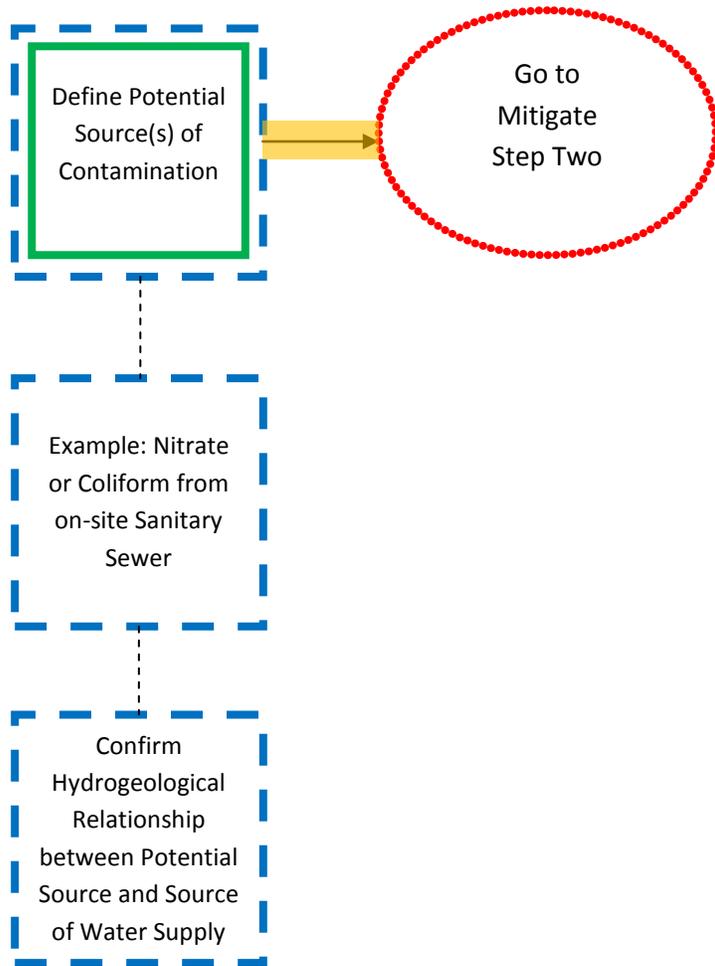
Stratford PUD



Stratford PUD

Mitigate a Source of Contamination

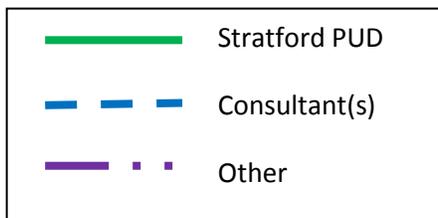
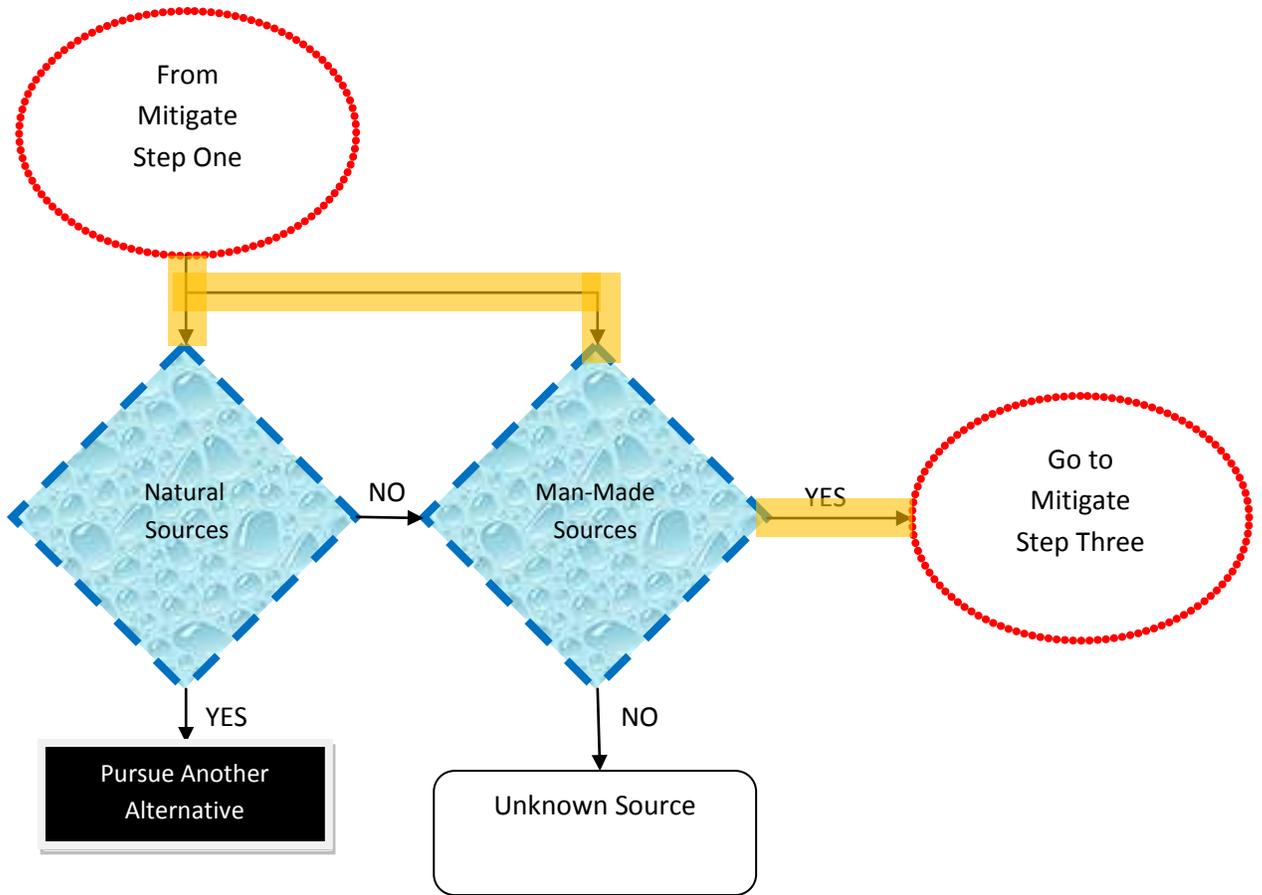
Step 1



Stratford PUD

Mitigate a Source of Contamination

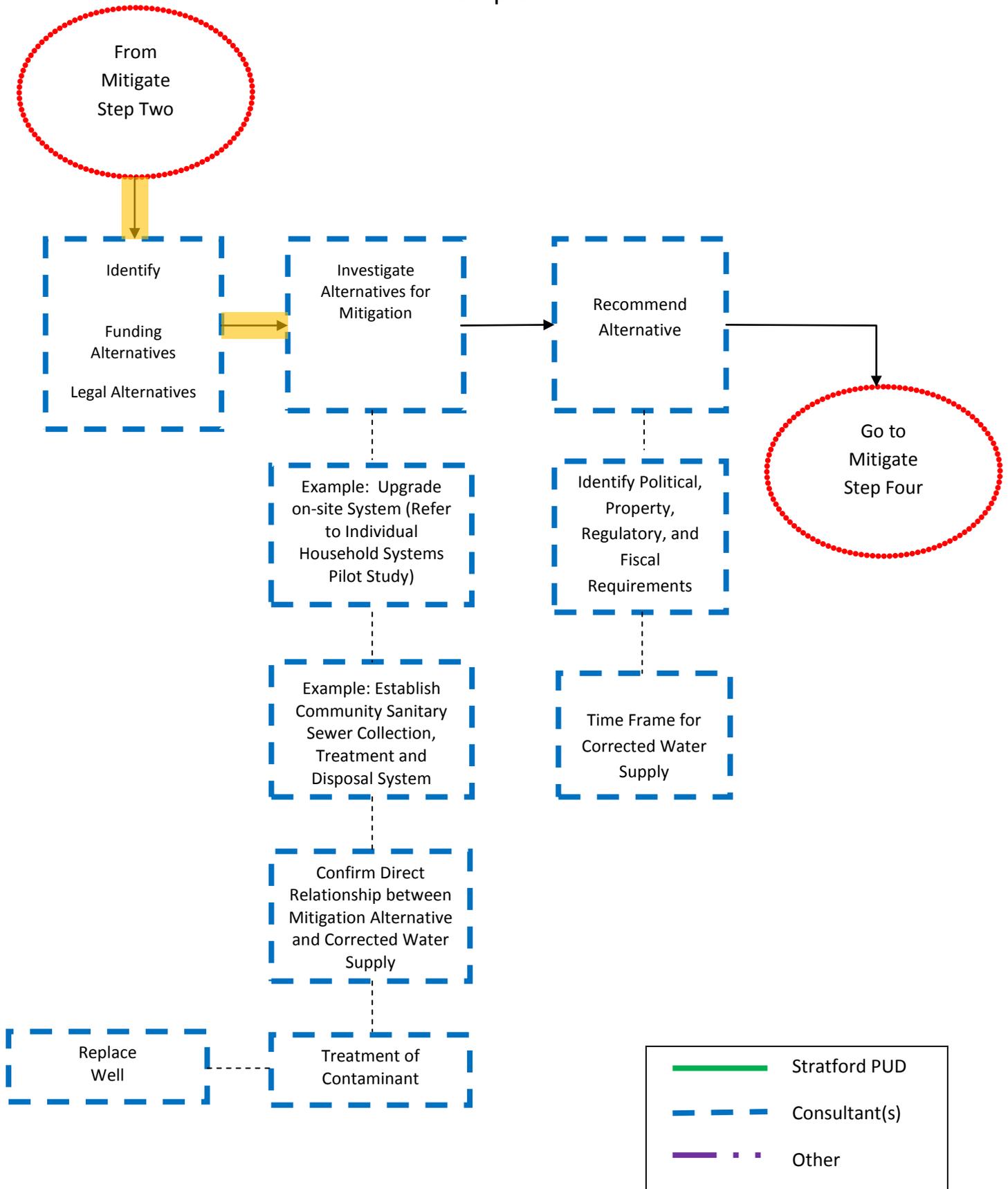
Step 2



Stratford PUD

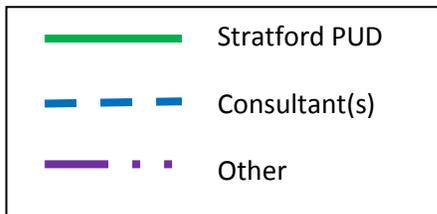
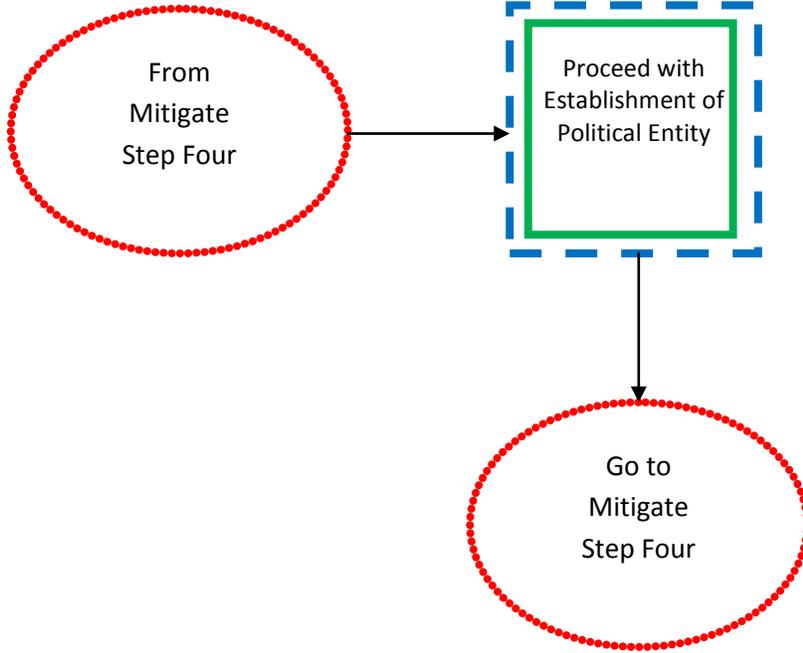
Mitigate a Source of Contamination

Step 3



Stratford PUD
Mitigate a Source of Contamination

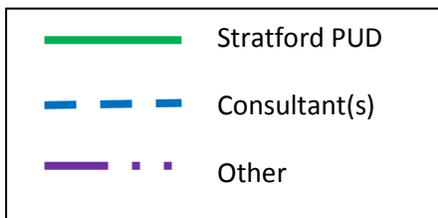
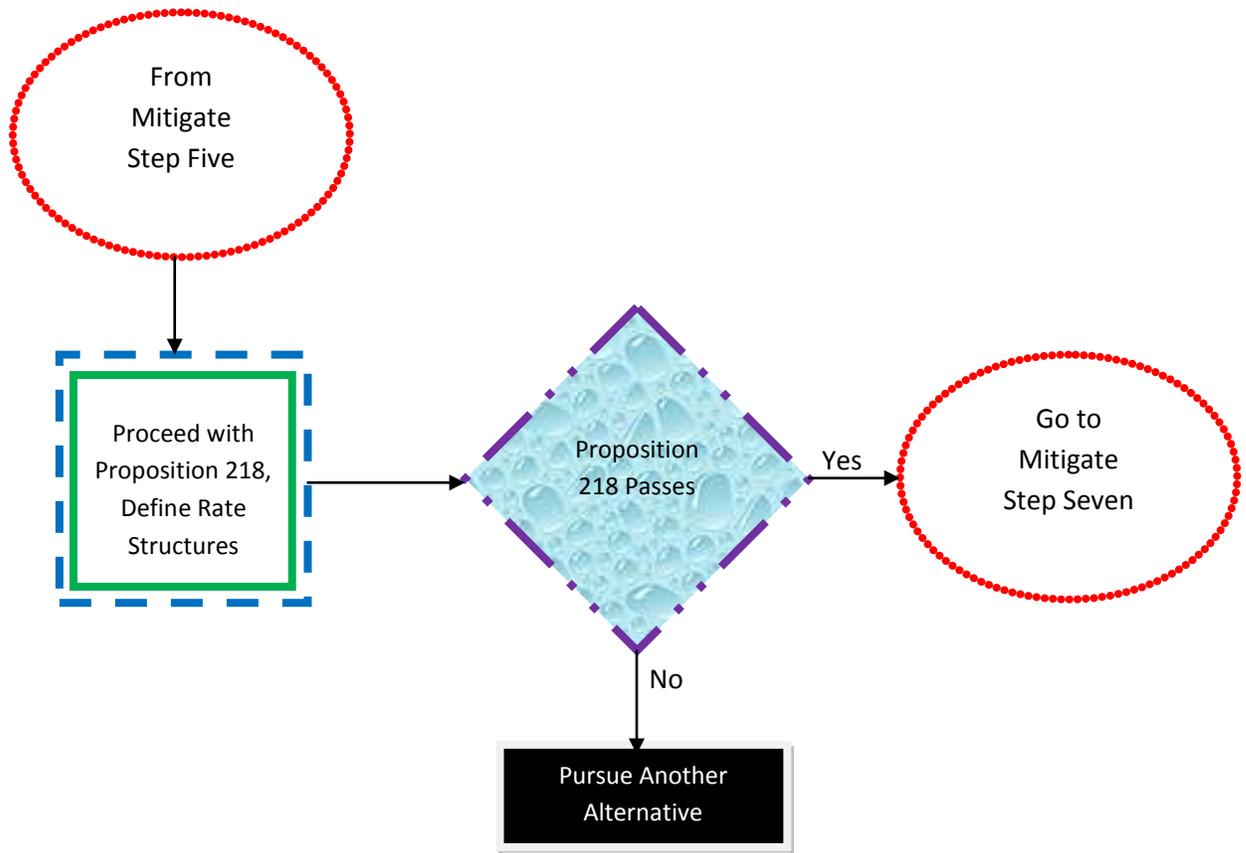
Step 5



Stratford PUD

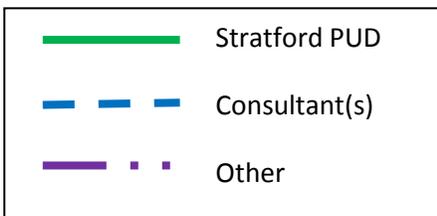
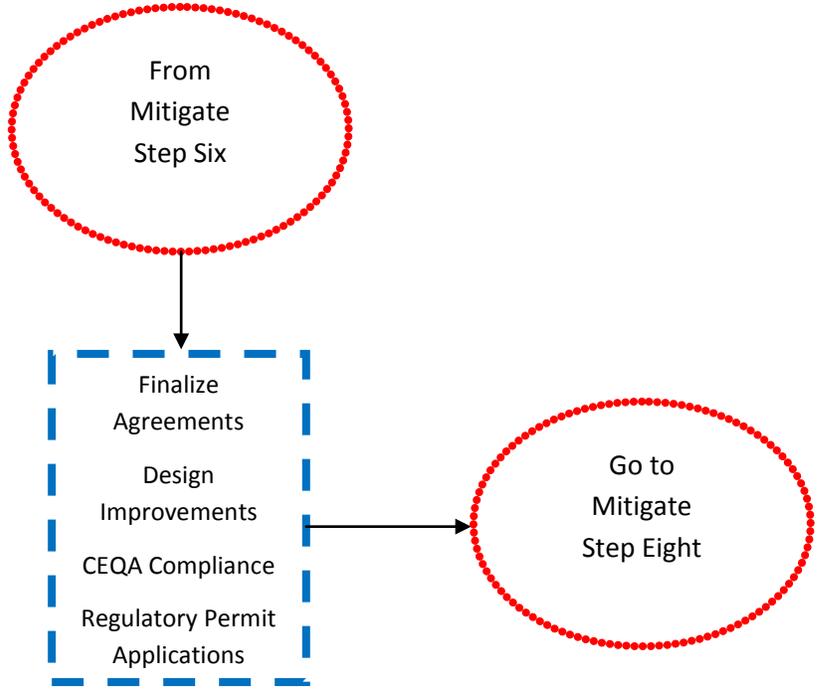
Mitigate a Source of Contamination

Step 6



Stratford PUD
Mitigate a Source of Contamination

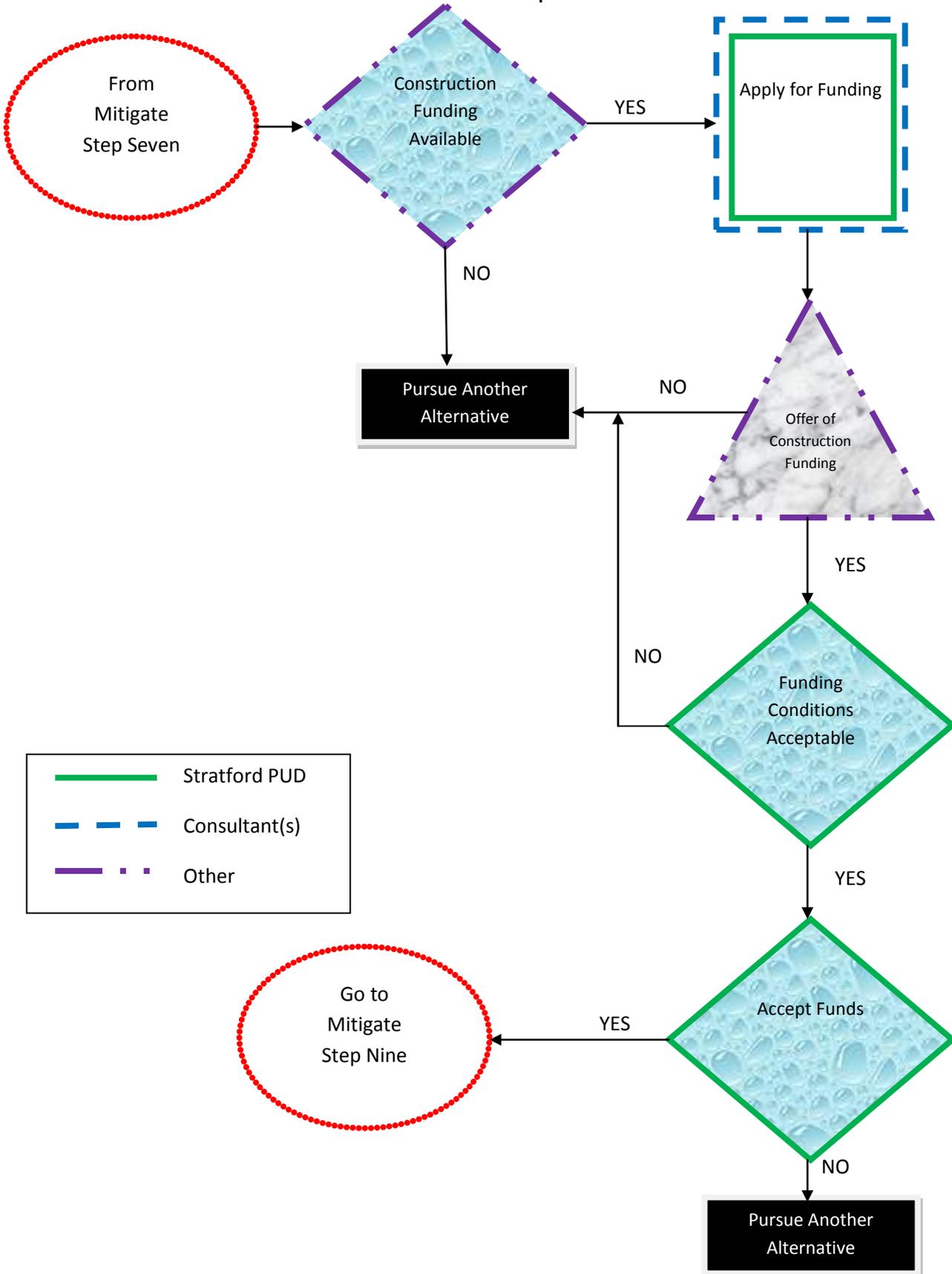
Step 7



Stratford PUD

Mitigate a Source of Contamination

Step 8



Stratford PUD
Mitigate a Source of Contamination

Step 9

