



AGENDA

PUBLIC WORKS COMMISSION CITY OF HUNTINGTON BEACH

Wednesday, June 15, 2016 – 5:00 PM
Utilities Yard
19021 Huntington Street
Huntington Beach, CA 92648

A. PLEDGE OF ALLEGIANCE

ROLL CALL

Capps, Carr, Lake
Scandura, Stanford, Strook, Troxell

B. PRESENTATIONS-COMMENDATIONS

C. MINUTES

C-1. Minutes of May18, 2016

D. ORAL COMMUNICATIONS

Public Comments – the Public Works Commission welcomes public comments on all items on this agenda or of community interest. **Three minutes per person**, time may not be donated to others. Commission on this date can take no action on any item not on the agenda. This is the time to address Commission regarding items of interest or agenda items other than public hearings. Communications on agenda items will be scheduled such that public comments may be received as close to 5:00 p.m. as possible.

E. DIRECTOR'S ITEMS

None

F. INFORMATION ITEMS

F-1. Upcoming City Council Study Sessions - The City Council conducts public Study Sessions on the evenings of City Council meetings, normally beginning at 4:00 p.m., in Room B-8. A tentative listing of upcoming sessions is submitted for the Commission's information.

F-2. Active Capital Project Report – An update on active capital projects is presented for the Commission's information. Project information, including

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description, location maps and funding sources can be found in the FY 2015/16 Capital Improvement Program notebook, or on the city's website under Government, Current [Budget](#) information.

G. ADMINISTRATIVE ITEMS

- G-1. FY 15/16 Arterial Rehabilitation - Plans and Specifications for the FY 15/16 Arterial Rehabilitation Project, CC-1527 are in final preparation. Staff is seeking support to begin the public bidding process.

Funding Source: Funds in the amount of \$2,920,000 are budgeted in the General Fund Account No. 10040314.82300 (\$1,000,000) and Measure "M" Account No. 21390025.82300 (\$1,920,000).

Recommended Action: Motion to approve that the FY 15/16 Arterial Rehabilitation Project, CC-1527, is in general conformance with the approved CIP.

- G-2. 2015/16 Sewer Lining Project- Plans and Specifications for the FY 2015/16 Sewer Lining Project, CC-1533, are in final preparation. Staff requests the recommended action to proceed with the bidding process.

Funding Source: Funds in the amount of \$350,000 are budgeted in the Sewer Service Fund.

Recommended Action: Motion to approve that the FY 2015/16 Sewer Lining Project, CC-1533, is in general conformance with the previously approved Capital Improvement Program.

- G-3. FY 2016/17 Capital Improvement Program- The proposed FY 2016/17 Capital Improvement Program (CIP) is presented for approval.

Funding Source: As indicated in the CIP detail sheets.

Recommended Action: Motion to recommend to the City Council the Fiscal Year 2016/17 Capital Improvement Program.

- G-4. 2016 Water Master Plan Update- Beginning in 2015, staff began work on updating the Water Master Plan ("WMP"). The draft 2016 WMP is substantially complete and the list of capital improvement projects/programs for the upgrades and maintenance of the water system are provided. The draft plan is presented for the Commission's recommendation to the City Council

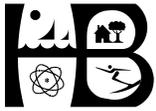
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Funding Source: Funding for the 2016 WMP was budgeted in the Water Fund (506).

Recommended Action: Motion to recommend to the City Council the adoption of the draft 2016 WMP.

- H. WRITTEN COMMUNICATIONS**
- I. COMMISSION AND STAFF COMMENTS**
- J. ADJOURNMENT**

<p>NEXT PUBLIC WORKS COMMISSION MEETING <i>July 20, 2016, 5:00 PM, Utilities Yard</i></p>
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MINUTES

CITY OF HUNTINGTON BEACH PUBLIC WORKS COMMISSION MAY 18, 2016

**Call to Order/
Pledge of Allegiance:** The meeting was called to order at 3:00 p.m. by Travis Hopkins, who led Commissioners and the audience in the Pledge of Allegiance to the Flag.

Commissioners Absent: Carr

Commissioners Present: Commissioners Capps, Carr (arrived at 4:55 PM), Lake, Scandura, Stanford, Strook and Troxell were in attendance.

Others Present: Travis Hopkins, Director of Public Works
Tom Herbel, City Engineer
Ken Dills, Project Manager
Jay Kleinheinz, Water Production Supervisor
Todd Broussard, Principal Civil Engineer
Duncan Lee, Principal Civil Engineer
Darren Sam, Senior Traffic Engineer
Kirsty Wapner, Administrative Assistant
Dave Dominguez, Community Services

B. 3:00 PM – MEET AT UTILITIES YARD.

RECESS MEETING TO 3:20 PM AT PECK RESERVOIR

3:20 PM – RECONVENE MEETING AT PECK RESERVOIR (14561 Springdale)

RECESS MEETING AT 3:50 PM TO HEIL PUMP STATION

4:00 PM – RECONVENE MEETING AT HEIL PUMP (7231 Heil Ave)

RECESS MEETING AT 4:20 PM TO UTILITIES YARD, 19021 HUNTINGTON STREET

5:00 PM – RECONVENE REGULAR MEETING FOR BUSINESS AT THE UTILITIES YARD

C. MINUTES

C-1. Motion by Commissioner Carr, seconded by Commissioner Troxell to approve the minutes of March 16, 2016 as presented.

VOTE: The motion carried.

AYES: 7

NOES: 0
ABSENT: 0
ABSTENTIONS: 0

D. ORAL COMMUNICATIONS

None.

E. DIRECTOR'S ITEMS

None.

F. INFORMATION ITEMS

F-1. Upcoming City Council Study Sessions – Travis Hopkins presented the schedule of upcoming City Council Study Sessions. He noted the Corridor Study for PCH will be presented on July 15. The FY 16/17 proposed budget is being presented on July 18 and August 15.

F-2. Active Capital Project Report – Tom Herbel provided updates on the capital project report.

- Gothard Street/ Center Ave Rehabilitation- construction has started
- Nichols Street Rehabilitation- design is complete and just went out to bid
- Edinger Widening near Beach Blvd- design is almost complete. Going out to bid in a couple months
- Senior Center- Contractor will be substantially complete on June 14. The Grand Opening is in July. Some site landscaping may still be getting done
- Trinidad Lift Station- complete.

Chair Strook inquired about Main and Florida Traffic Signal Equipment Replacement. Darren Sam noted it is currently in the design phase.

Commissioner Scandura inquired as to the schedule for the Warner Avenue Signal Synchronization project. Darren Sam noted that the project crosses several jurisdictions (PCH to Red Hill) and is managed by OCTA. The current projected completion date is June 30.

G. ADMINISTRATIVE ITEMS

G-1. Worthy Park Reconfiguration- Todd Broussard reported on the Worthy Park reconfiguration project. He provided some background information on the park. Plans are in the final development stages. Dave Dominguez, of the Community Services Department, also spoke on this project, providing details of the plan and noted after going through the Community Services Commission

and several public hearings, it was decided by the Community Services Commission that there will be all pickle ball courts, and the one existing softball field will remain. Restrooms will be ADA compliant.

Commissioner Scandura requested more detailed map/drawings of the location for future agenda packets. He stated he'd like to also see the history of the CIP carry over in the future as well.

Motion by Commissioner Carr, seconded by Commissioner Capps to approve that the Worthy Park Reconfiguration project is in general conformance with the previously approved Capital Improvement Program.

VOTE: The motion carried.

AYES: 7

NOES: 0

ABSENT: 0

ABSTENTIONS: 0

- G-2. FY 2016/17 Capital Improvement Program- Todd Broussard presented a Power Point presentation. The presentation is attached to these minutes.

Commissioner Carr stated concerns with the Council Chambers audio visual equipment and listing the furniture as infrastructure, along with noted costs.

Commissioner Stanford questioned the \$93,000 noted for the Central Library's directional signage. Chair Strook and Commissioner Scandura stated departments should get design element together first, then build.

Travis Hopkins noted the directional signage at the Central Library is a high priority for that department. He added he will extend the opportunity to the departments to attend the next PWC meeting, to better address and explain specific issues.

Commissioner Carr had requested a copy of the PowerPoint regarding the gun range that went to Study Session around February.

Commissioner Scandura noted it would be good for future Commissioners to tour the gun range.

The master plan for Bartlett Park will be brought to the next meeting.

Commissioner Scandura inquired about traffic signals and the cross jurisdictional efforts. Darren Sam noted these are usually an OCTA coordinated effort.

Travis Hopkins noted that Atlanta Ave widening, Adams/Brookhurst, Beach Warner, and Edinger/Warner projects all use Traffic Impact funding.

Motion by Commissioner Carr, seconded by Commissioner Capps to continue this item to the June Public Works Commission meeting.

VOTE: The motion carried.
AYES: 7
NOES: 0
ABSENT: 0
ABSTENTIONS: 0

H. WRITTEN COMMUNICATIONS

None

I. COMMISSION AND STAFF COMMENTS

Commissioner Scandura noted he will be absent for the July meeting of the Public Works Commission.

Specific items from this meeting, which are to be specifically discussed at the next Commission meeting, include: City Council Chambers Audio Visual equipment, the police gun range, Central Library directional signage, and Bartlett Park Master Plan.

Travis Hopkins commended staff response and efforts with the Walnut water main break a couple weeks ago.

J. ADJOURNMENT

The meeting adjourned at 6:30 PM to June 15, 2016 at 5:00 PM at the Utilities Yard.

Donn Strook
Chairperson

Kirsty Wapner
Administrative Assistant

CITY OF HUNTINGTON BEACH PUBLIC WORKS DEPARTMENT



FY 2016/2017 CAPITAL IMPROVEMENT PROGRAM (CIP)



Capital Improvement Program

- Budget
 - New Appropriations: \$25.5M
 - Continuing Appropriations: \$ 6.0M
 - Total \$31.5M
- Funding sources include:
 - General Fund
 - Enterprise Funds (*Water and Sewer*)
 - Special Revenue Funds (*Measure M, Gas Tax, Prop 42, AQMD, Park*)
 - Grants (*Federal, State, & OCTA*)

CIP Projects by Category

❖ Drainage & Storm Water	\$300k
❖ Facilities	\$2.0M
❖ Neighborhood	\$3.6M
❖ Parks and Beaches	\$1.6M
❖ Sewer	\$4.0M
❖ Streets & Transportation	\$8.1M
❖ Water	\$6.0M

3

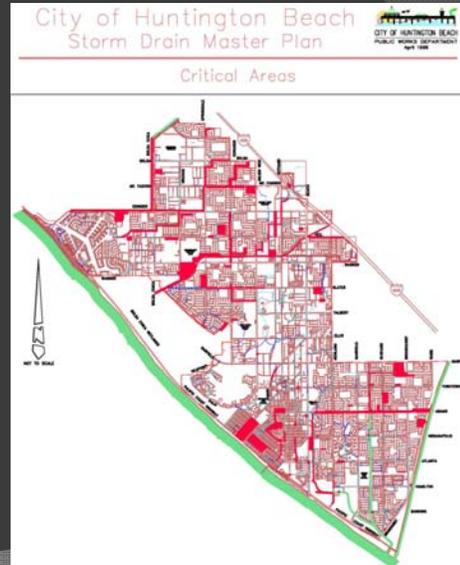
Funding Sources

❖ Water Funds	\$6.0M
❖ Grants/Other	\$4.7M
❖ Sewer Funds	\$4.0M
❖ General Fund	\$3.6M
❖ Gas Tax	\$3.0M
❖ Measure M	\$2.0M
❖ Infrastructure Fund	\$1.2M
❖ Proposition 42	\$580k
❖ Park Funds	\$395k

4

Drainage & Storm Water \$300k

- ❖ Drainage Master Plan
 - ❖ Last update in 2005.



5

Facilities \$2.0M

- ❖ Beach Emergency Alerting System (Design) \$75k
- ❖ E.O.C. Renovation \$60k
- ❖ Council Chambers A/V and Remodel \$180k
- ❖ Central Library Directional Signage \$93k
- ❖ Main Promenade Parking Structure \$300k

6

Facilities (Cont.)

- ❖ Police Lobby Security Improvements \$100k
- ❖ Police Locker Rooms (Design) \$200k
- ❖ New Police Gun Range (Design) \$300k
- ❖ Police Dept. HVAC \$270k
- ❖ Various Roof Replacements \$435k

7

Neighborhood \$3.6M

- ❖ Residential Curb Ramp \$450k
- ❖ Residential Overlay \$2.28M
- ❖ Residential Tee Petition \$600k
- ❖ Concrete Replacement \$250k



8

Parks and Beaches \$1.4M

❖ 1 st & Atlanta Parking Lot	\$500k
❖ Beach Service Rd. Rehabilitation	\$150k
❖ Bartlett Park	\$100k
❖ Edison Park Playground	\$110k
❖ Murdy Park Sports Field (Design)	\$50k
❖ Rodger's Sr. Center Master Plan	\$50k
❖ Central Park Tot Lot	\$85k

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Parks and Beaches (Cont.)

❖ Ex-Navy Rail to Bike/Pedestrian Trail	\$35k
❖ Harbour Trash Skimmers	\$97k
❖ Central Park East Rehabilitation	\$200k
❖ H.H. Beaches -Sand Replenishment	\$200k

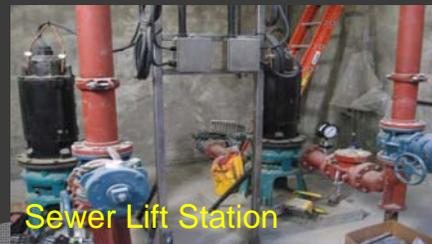
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Sewer Improvements \$4.0M

- ❖ Sewer Lift Station Improvements **\$3.5M**
 - ❖ Edgewater LS Construction
 - ❖ Slater LS Design
- ❖ Sewer Lining – Various Locations **\$450k**



Sewer Lining



Sewer Lift Station

11

Streets & Transportation \$8.1M

- ❖ Arterial Rehabilitation **\$4.4M**
- ❖ Bridge Rehabilitation **\$1.1M**
- ❖ Utica Bicycle Boulevard **\$684k**

Arterial Rehab – Before



Arterial Rehab – After



12

Streets & Transportation (Cont.)

❖ Traffic Signal Projects		\$330k
▪ Brookhurst/Indianapolis	\$60k	
▪ Main/Florida	\$265k	
▪ Nichols/Warner (Design)	\$5k	
❖ Traffic Signal Synchronization		\$1.56M
▪ Brookhurst	\$833k	
▪ Magnolia	\$724k	
❖ Central Park Light Poles (Design)		\$10k
❖ Downtown Street Lighting (Design)		\$50k

13

Water Improvements \$6.0M

❖ Corrosion Control		\$55k
❖ Water Distribution Imp.		\$810k
❖ Water Production Imp.		\$110k
❖ Water Facilities Security		\$25k
❖ Water Main Replacement		\$1.4M
❖ Peck Reservoir Dual Drive		\$1.3M
❖ Well No. 9 Treatment		\$600k
❖ New Well No. 14		\$400k
❖ Well No. 1 Replacement		\$1.3M

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FY 2016/17 Budget/CIP Timeline

- ❖ City Manager Review May
- ❖ Public Works Commission May/June
- ❖ City Council Study Session July
- ❖ GPC by Planning Commission August
- ❖ Budget Public Hearing September 5
- ❖ Budget approved September 5 or 19

QUESTIONS?



2016 City Council Upcoming Study Sessions

*This information is for agenda scheduling purposes only and is subject to change on a daily basis.
Subjects listed below are not guaranteed to appear on a City Council agenda.*

COUNCIL MEETING	CM REPORT	SUBJECT	DEPT HEAD
2016			
Jan 19	Finance	I-405-Landscape	Hopkins
Feb 1		IAB PD Firing Range Feasibility Study	Cutchen Handy
Feb 16	OBD	Animal Care Shelter	Handy
March 7		HOLD for PD	Handy
March 21		Homeless Task Force Recommendations	Fritzel
April 4		Rogers Senior Center Site	Laudenback
April 18	HR	Broadband Strategic Plan Update AES Visual Screen	Domer Hess
May 2		Mid-Year Budget Update	Farrell
May 16		Preservation of Local Government	Flynn
June 6		CPAB—CDBG Recommendations	Fritzel
June 20		1. Wayfinding Report 2. Pier Maintenance Update	VHB Laudenback/Hopkins
July 5		Corridor Study Session for PCH	Hopkins
July 18		FY 16/17 Proposed Budget	Farrell
Aug 1	changed	CIP	Hopkins
Aug 15	changed	1. Fee Study Presentation 2. Long-Term Financial Plan	Farrell Farrell
Sept 6	new	FY 16/17 Proposed Budget	Farrell
Sept 19	moved	CTC Broadband	Domer
Oct 3		Standards of Cover Study	Domer
Oct 17		NEV Study	Domer/Hopkins
Nov 7			
Nov 21			
Dec 5		Mayoral Transition	
Dec 19			

**City of Huntington Beach
Capital Improvement Program Master Schedule**

6/8/16

ID	Task Name	Duration	Start	Finish	Budget	Comments	2016												2	
							J	J	A	S	O	N	D	J	F	M	A	M		J
98	Design	169 days	1/11/16	9/1/16		to Start Design														
99	Bidding/Award (3 Months)	60 days	9/2/16	11/24/16																
100	Construction	88 days	11/25/16	3/28/17																
101	CC-1499 Utica Bicycle Blvd (Main to Beach)	293 days	8/31/15	10/12/16		Design														
102	Design	169 days	8/31/15	4/21/16																
103	Bidding/Award (3 Months)	60 days	4/22/16	7/14/16																
104	Construction	64 days	7/15/16	10/12/16																
105																				
106	DRAINAGE & WATER QUALITY	613 days	5/11/15	9/13/17																
107	CC-1293 Heil Pump Station Rebuild/Relocation	613 days	5/11/15	9/13/17	\$1,950,000	Right of Way Acquisition Started														
108	Right-of-Way Acquisition	293 days	5/11/15	6/22/16																
109	Bidding/Award (3 Months)	60 days	7/21/16	10/12/16																
110	Construction	240 days	10/13/16	9/13/17																
111	FACILITIES	237 days	12/14/15	11/8/16																
112	Pier Piling Inspection, Cleaning and Maintenance (5 yr Program)	80 days	7/20/16	11/8/16	\$200,000	Construction Summer 2016														
113	Construction	80 days	7/20/16	11/8/16																
114	CC-1535 Fire Station 8 - Heil Renovation	230 days	12/14/15	10/28/16	\$190,900	Construction														
115	Design	145 days	12/14/15	7/1/16																
116	Construction	85 days	7/4/16	10/28/16																
117	Police Main Lobby Security and ADA Project	170 days	1/4/16	8/26/16	\$325,000	Design														
118	Design	145 days	1/4/16	7/22/16																
119	Construction	25 days	7/25/16	8/26/16																
120	Gun Range Site Preliminary Design	145 days	3/14/16	9/30/16	\$30,000	Ongoing														
121	Design	145 days	3/14/16	9/30/16																
122	City Hall Roof Replacement	60 days	6/20/16	9/9/16	\$60,000	Not Started														
123	Construction	60 days	6/20/16	9/9/16																
124	CC-1534 Main Promenade Parking Structure Renovations	85 days	2/15/16	6/10/16	\$800,000	Construction														
125	Construction	85 days	2/15/16	6/10/16																
126																				
127	PARKS & BEACHES	678 days	12/1/14	7/5/17																
128	Barlett Park-Phase 1	335 days	3/9/15	6/17/16	\$284,000	Finalizing MND. Project on hold due to lack of funding.														
129	Design	235 days	3/9/15	1/29/16																
130	Construction	45 days	4/18/16	6/17/16																

**City of Huntington Beach
Capital Improvement Program Master Schedule**

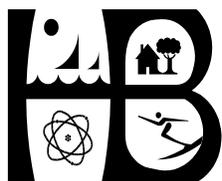
6/8/16

ID	Task Name	Duration	Start	Finish	Budget	Comments	2016															
														2								
							J	J	A	S	O	N	D	J	F	M	A	M	J			
131	Gun Range Site (08/09)	345 days	12/1/14	3/25/16	\$50,000	Evaluating potential recreation uses of the site																
132	Develop Concepts	345 days	12/1/14	3/25/16																		
133	CC-1345 LeBard Park	330 days	10/26/15	1/27/17	\$1,487,000	Design																
134	Design	190 days	10/26/15	7/15/16																		
135	Bidding/Award (3 Months)	60 days	7/18/16	10/7/16																		
136	Construction	80 days	10/10/16	1/27/17																		
137	CC-1473 Senior Center	407 days	1/1/15	7/22/16	\$11,600,000	Construction																
138	Construction	407 days	1/1/15	7/22/16																		
139	Worthy Park Reconfiguration-Phase 1	448 days	10/19/15	7/5/17	\$1,300,000	Design																
140	Design	197 days	10/19/15	7/19/16																		
141	Construction	251 days	7/20/16	7/5/17																		
142																						
143	SEWER	1038 days	12/9/13	11/29/17																		
144	CC-1401 Trinidad Lift Station	615 days	12/9/13	4/15/16	\$2,100,000	Complete																
145	Design	255 days	12/9/13	11/28/14																		
146	Bidding/Award (3 Months)	60 days	12/1/14	2/20/15																		
147	Construction	230 days	6/1/15	4/15/16																		
148	CC-1515 Edgewater Lift Station	578 days	9/14/15	11/29/17	\$400,000	Design																
149	Design	265 days	9/14/15	9/16/16																		
150	Permitting	63 days	9/19/16	12/14/16																		
161	Bidding/Award (3 Months)	60 days	12/29/16	3/22/17																		
162	Construction	180 days	3/23/17	11/29/17																		
163	CC-1532 Sewer Lining (15/16)	199 days	5/2/16	2/2/17	\$350,000	Design																
164	Design	80 days	5/2/16	8/19/16																		
165	Bidding/Award (3 Months)	39 days	9/19/16	11/10/16																		
166	Construction	60 days	11/11/16	2/2/17																		
167																						
168	WATER	2278 days	7/26/10	4/17/19																		
169	PRODUCTION	2278 days	7/26/10	4/17/19																		
170	CC-1467 Well #5 Security Improvements	475 days	10/6/14	7/29/16	\$500,000	Construction																
171	Permits (Building)	125 days	10/6/14	3/27/15																		
172	Bidding/Award (3 Months)	60 days	4/13/15	7/3/15																		
173	Construction	180 days	11/23/15	7/29/16																		

**City of Huntington Beach
Capital Improvement Program Master Schedule**

6/8/16

ID	Task Name	Duration	Start	Finish	Budget	Comments	2016												2	
							J	J	A	S	O	N	D	J	F	M	A	M		J
							418	Permits	225 days	6/22/15	4/29/16									
419	Design	430 days	3/31/14	11/20/15																
420	Bidding/Award (3 Months)	64 days	8/5/16	11/2/16																
421	Construction	90 days	11/3/16	3/8/17																



**CITY OF HUNTINGTON BEACH
PUBLIC WORKS COMMISSION
REQUEST FOR ACTION**

Item No. PW 16-09

SUBMITTED TO: Chair Strook and Members of the Commission

SUBMITTED BY: Travis K. Hopkins, PE, Director of Public Works

DATE: June 15, 2016

SUBJECT: FY 15/16 Arterial Rehabilitation, CC-1527

Statement of Issue: Plans and Specifications for the FY 15/16 Arterial Rehabilitation Project, CC-1527 is in final preparation. Staff is seeking support to begin the public bidding process.

Funding Source: Funds in the amount of \$2,920,000 are budgeted in the General Fund Account No. 10040314.82300 (\$1,000,000) and Measure "M" Account No. 21390025.82300 (\$1,920,000).

Impact on Future Maintenance Costs: No additional costs are anticipated.

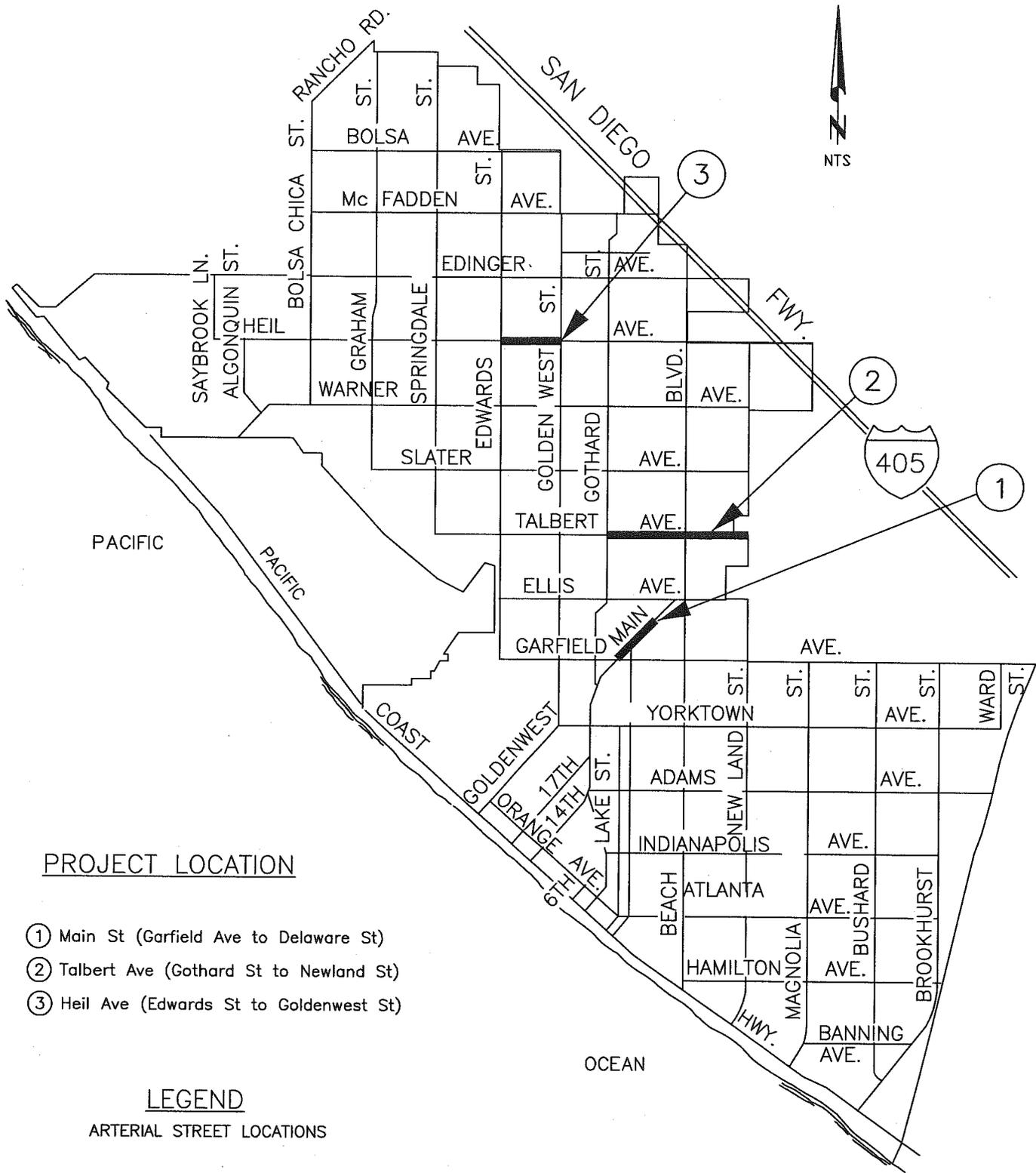
Recommended Action: Motion to approve that the FY 15/16 Arterial Rehabilitation Project, CC-1527, is in general conformance with the approved Capital Improvement Program (CIP).

Alternative Action(s): Deny approval and recommend an alternative action.

Analysis: The project locations for the FY 15/16 Arterial Rehabilitation Project, are Main Street (Garfield Avenue to Delaware Street), Talbert Avenue (Gothard Street to Newland Street), and Heil Avenue (Edwards Street to Goldenwest Street). The project rehabilitation will include grinding out and replacing failed asphalt concrete with fiber reinforced asphalt concrete (FRAC). Sewer manholes and water meter boxes and valves will be adjusted to grade as necessary. The project segments were last rehabilitated in the 1990's.

Attachments:

1. Project Location Map



PROJECT LOCATION

- ① Main St (Garfield Ave to Delaware St)
- ② Talbert Ave (Gotthard St to Newland St)
- ③ Heil Ave (Edwards St to Goldenwest St)

LEGEND

ARTERIAL STREET LOCATIONS

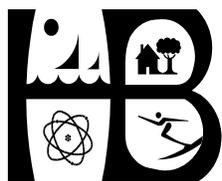
06/06/16

FY 15/16 ARTERIAL REHABILITATION, CC-1527
PROJECT LOCATION MAP

CITY OF HUNTINGTON BEACH

DEPARTMENT OF PUBLIC WORKS





**CITY OF HUNTINGTON BEACH
PUBLIC WORKS COMMISSION
REQUEST FOR ACTION**

Item No. PW 16-13

SUBMITTED TO: Chair Strook and Members of the Commission

SUBMITTED BY: Travis K. Hopkins, PE, Director of Public Works

DATE: June 15, 2016

SUBJECT: FY 2015/16 Sewer Lining Project, CC-1533

Statement of Issue: Plans and Specifications for the FY 2015/16 Sewer Lining Project, CC-1533, are in final preparation. Staff requests the recommended action to proceed with the bidding process.

Funding Source: Funds in the amount of \$350,000 are budgeted in the Sewer Service Fund.

Impact on Future Maintenance Costs: No additional costs are anticipated.

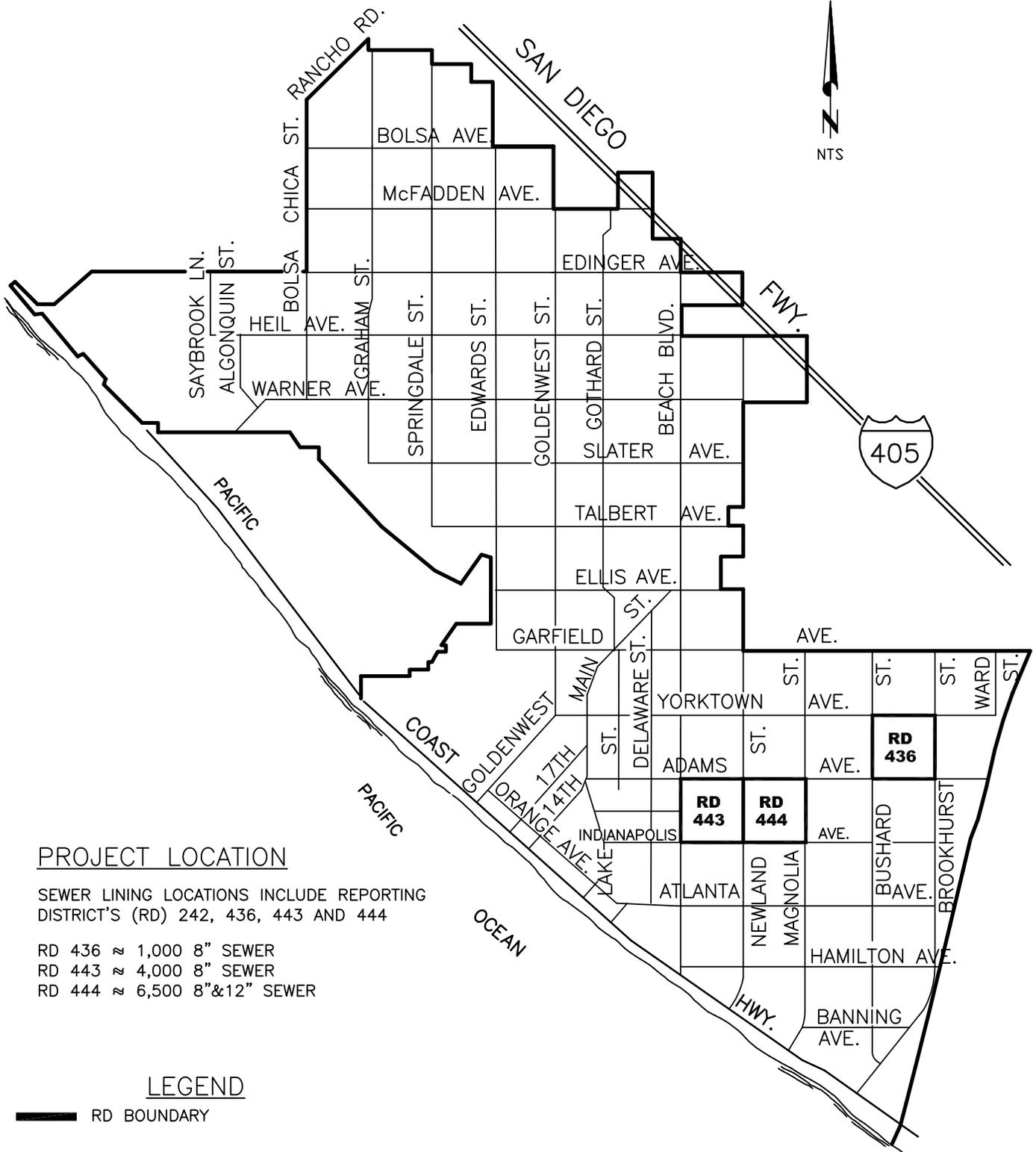
Recommended Action: Motion to approve that the FY 2015/16 Sewer Lining Project, CC-1533, is in general conformance with the previously approved Capital Improvement Program.

Alternative Action(s): Deny approval and recommend an alternative action.

Analysis: The Engineering and Utilities Division coordinate the need for rehabilitation of existing sewer pipes based on maintenance history and video inspection. The scope of work for the project includes lining approximately 11,000 lineal feet of aged sewer main lines identified as a priority this year. The locations would benefit from lining as the existing pipes are either lined with calcium deposits from groundwater seepage through minor cracks and joints, or have joints offset by tree roots from adjacent mature trees located on parkways. These deposits and roots, which inhibit flow, will be removed prior to lining. Lining of the pipes is a trenchless operation performed by inserting a felt tube inside the existing pipe and curing the liner to form a replacement pipe. The Engineers Estimate for this project is \$300,000.

Attachments:

1. Location Map



PROJECT LOCATION

SEWER LINING LOCATIONS INCLUDE REPORTING DISTRICT'S (RD) 242, 436, 443 AND 444

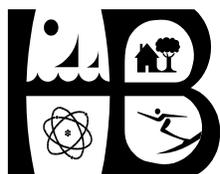
- RD 436 ≈ 1,000 8" SEWER
- RD 443 ≈ 4,000 8" SEWER
- RD 444 ≈ 6,500 8"&12" SEWER

LEGEND

— RD BOUNDARY

FY 2015/16 SEWER LINING PROJECT
 CC-1533 PROJECT LOCATION MAP
CITY OF HUNTINGTON BEACH
 DEPARTMENT OF PUBLIC WORKS





**CITY OF HUNTINGTON BEACH
PUBLIC WORKS COMMISSION
REQUEST FOR ACTION**

Item No. PW 16-11

SUBMITTED TO: Chairman Strook and Members of the Commission

SUBMITTED BY: Travis K. Hopkins, PE, Director of Public Works

DATE: June 15, 2016

SUBJECT: FY 2016/17 Capital Improvement Program

Statement of Issue: The proposed FY 2016/17 Capital Improvement Program (CIP) is presented for approval.

Funding Source: As indicated in the CIP detail sheets.

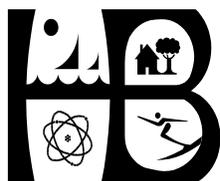
Impact on Future Maintenance Costs: As indicated in the CIP detail sheets.

Recommended Action: Motion to recommend to the City Council the Fiscal Year 2016/17 Capital Improvement Program.

Alternative Action(s): Approve or modify specific projects.

Analysis: The proposed FY 2016/17 CIP is being recommended by staff based on available funding. The total of new appropriations for next fiscal year will be approximately \$25.3 million, with continuing appropriations of \$6.0 million. The CIP will be presented to the City Council during a Study Session in July. The public hearing, and first opportunity for adoption will be September 5, 2016, with a possible continuance to the September 19, 2016 meeting.

Attachments: Capital Improvement Program – Fiscal Years 2016/17 through 2020/21



**CITY OF HUNTINGTON BEACH
PUBLIC WORKS COMMISSION
REQUEST FOR ACTION**

Item No. PW 16-12

SUBMITTED TO: Chair Strook and Members of the Commission

SUBMITTED BY: Travis K. Hopkins, PE, Director of Public Works

DATE: June 15, 2016

SUBJECT: 2016 Water Master Plan Update

Statement of Issue: Beginning in 2015, staff began work on updating the Water Master Plan ("WMP"). The draft 2016 WMP is substantially complete and the list of capital improvement projects/programs is 100% complete. The draft plan is presented for the Commission's recommendation to the City Council.

Funding Source: Funding for the 2016 WMP was budgeted in the Water Fund (506).

Impact on Future Maintenance Costs: N/A

Recommended Action: Motion to recommend to the City Council the adoption of the draft 2016 WMP.

Alternative Action(s): Do not recommend adoption of the draft 2016 WMP.

Analysis: The original Water Master Plan was adopted in 1988 as a tool to assist in planning for adequate water service to keep pace with growth and to correct system deficiencies. The plan was originally unfunded and was supplemented in 1990 and 1993 by the Water Fund. In 1995, the plan was updated and a financing plan consisting of a capital improvement surcharge was put in place for twelve (12) years to specifically fund the WMP Fund identified twenty (20) capital projects. The cost estimate in 1995 was approximately \$43 million, with projected costs with inflation of \$55 million.

Typically every 5 years since 1995 staff has updated the WMP, with updates performed and adopted around 2000, 2005 and most recently being the 2012 WMP.

The draft 2016 WMP conservatively estimated the cost to construct the complex water infrastructure system today would be over \$1.4 billion. There are forty five projects and programs identified in the updated 2016 WMP to ensure the water system to continue to provide service to the community. These projects range from new water wells, pipeline replacements, corrosion control, security improvements, reservoir, transmission mains, and engineering studies. The WMP recommends a list of fourteen (14) projects/programs, estimated at slightly under \$7 million, for immediate implementation. The WMP Fund can only be used on capital improvement projects that are identified in the latest WMP, and only City Council can adopt WMP updates to add or delete projects. The WMP Fund balance at the beginning of current fiscal year is approximately \$28.1 million, which is more than adequate to meet the needs shown in the priority list.

Beginning in 2015, staff began work on this 2016 WMP update. The draft 2016 WMP will be scheduled to be presented at a study session to City Council, follow by a regular Council meeting for adoption. After the adoption of the 2016 WMP, a separate 2016 Financial Plan will evaluate several funding scenarios to be presented to City Council.

Attachments:

1. List of 2016 WMP Projects
2. Priority List of Fourteen (14) WMP Projects
3. PowerPoint Presentation
4. 2016 Water Master Plan Update (DRAFT) – Electronic PDF file only

ATTACHMENT #1

WMP Project Categories & Costs

(7 Ex. from 2012 WMP + 38 New from 2016 WMP = 45 Projects/Programs)

Production
14 Projects/Program



Main Replacement
10 Projects/Program



Distribution
8 Projects/Program



Corrosion Control
3 Projects/Program



Security
7 Projects/Program



Studies
3 Studies



45 Projects/Programs

\$141.7 M Over 20 Year Cost

\$5 M to \$7 M (Typical Average Annual CIP Expenditure)

2016 WMP Projects – Production

Project # from 2016 WMP	Production Project/Program Name	Total Estimated Cost
12	<i>Well 13 Permanent Wellhead</i>	\$2,000,000
13	<i>Southeast Res. & Booster PS</i>	\$19,245,000
NA	<i>Well 1 Replacement</i>	\$4,250,000
22	Peck Booster Dual Drive and Well 7 Security	\$1,500,000
24	Well #9 Hydrogen Sulfide Odor Treatment	\$2,300,000
26	New Well #14 by McFadden Avenue and Gothard Street	\$5,000,000
28	New Well #15 in Ex-Navy Easement by Edwards Street	\$5,000,000
29	New Well #16 in Ex-Navy Easement by Goldenwest Street	\$5,000,000
38	Water Well #6 Hydrogen Sulfide Odor and Color Treatment	\$4,000,000
39	Water Well #8 Hydrogen Sulfide Odor and Color Treatment	\$4,000,000
40	Talbert Lake Irrigation Project	\$750,000
49	Water Production System Improvements	\$2,200,000
55	Overmyer Booster Station Dual Drive	\$2,000,000
56	Peck Reservoir Roof Relplacement	\$2,000,000
Total		\$59,245,000

Production
14 Projects/Program



2016 WMP Projects – Main Replacement

Project # from 2016 WMP	Main Replacement Project/Program Name	Total Estimated Cost
21	OC-44 San Diego Creek Crossing Rehab via Pipeline Sliplining - Phase I (City portion only)	\$1,035,000
25	WOCWB OC-35 33" Pipe Replacement by Westminster Blvd and Springdale Street (City portion only)	\$1,785,000
31	Aging Pipe Replacements - Primarily Asbestos Cement Pipe (25 miles, or approx. 5% of total in the City)	\$32,500,000
32	Sunset Beach Water Main Replacement Phase III	\$2,000,000
33	8" Pipe Replacement in Admiralty Bridge	\$100,000
34	8" Pipe Replacement in Humboldt Bridge	\$100,000
35	OC-9 22" Pipe Replacement by I-405 and Newland (Expecting OCTA Pays)	\$0
36	12" Pipe in Replacement In Bridge by Beach Blvd and Edinger Avenue (Expecting OCTA Pays)	\$0
37	8" Pipe in Replacement In Bridge by Sugar Avenue and McFadden Avenue	\$475,000
54	OC-44 San Diego Creek Crossing Rehab Pipeline Scour Protection - Phase II (City portion only)	\$662,000
Total		\$38,657,000

Main Replacement

10 Projects/Program



2016 WMP Projects – Distribution

Project # from 2016 WMP	Distribution Project/Program Name	Total Estimated Cost
1	<i>Beach Blvd. Pipeline Imps.</i>	\$700,000
14	<i>Southeast Res. Trans. Main</i>	\$5,858,000
14A	<i>New Connection - Overmyer to SE TM</i>	\$5,950,000
16	<i>Fire Protection Improvements</i>	\$300,000
23	Bolsa Chica 8" Water Main Extension	\$200,000
27	Ex-Navy Easement Well Collection Pipeline (1.3 miles 24" to 30" pipe)	\$4,000,000
47	Water Distribution Improvements	\$2,200,000
58	3.5 miles of 20" to 24" Recycled Waterline From GAP Facility	\$9,150,000
Total		\$29,108,000

Distribution
8 Projects/Program



2016 WMP Projects – Corrosion Control

Project # from 2016 WMP	Corrosion Control Project/Program Name	Total Estimated Cost
48	Water System Corrosion Control	\$1,100,000
52	8.6 Miles OC-44 Rehabilitation and Corrosion Control (City portion only)	\$4,140,000
53	WOCWB 5.3 Miles OC-9 and 6.0 Miles OC-35 Rehabilitation and Corrosion Control (City portion only)	\$3,413,500
Total		\$8,653,000

Corrosion Control

3 Projects/Program



2016 WMP Projects – Securities

Project # from 2016 WMP	Security Project/Program Name	Total Estimated Cost
30	Water Security Improvements at Peck and Well #13	\$2,000,000
42	Water Security Improvements at Well #3A	\$750,000
43	Water Security Improvements at Well #6	\$750,000
44	Water Security Improvements at Well #8	\$750,000
45	Water Security Improvements at Well #9	\$750,000
46	Water Security Improvements at Well #10	\$750,000
57	Water Facilities Security Improvements	\$500,000
Total		\$6,250,000

7 Projects/Program

Security

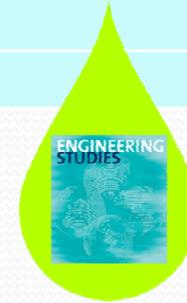


2016 WMP Projects – Engineering Study

Project # from 2016 WMP	Engineering Study Name	Total Estimated Cost
41	Groundwater Master Plan	\$150,000
50	Water Master Plan and Financial Plan Update (Next 5 Year Cycle)	\$200,000
51	Urban Water Management Plan (Next 5 Year Cycle)	\$200,000
Total		\$550,000

3 Studies

Studies



ATTACHMENT #2

Immediate Needs

The 2016 Water Master Plan Update Identifies the Following Projects & Programs as Highest Priority

5 Projects/Program

Production



5 Projects/Program

Main Replacement



2 Project/Program

Distribution



1 Program

Corrosion Control



1 Program

Security



14 Projects/Programs

\$6.6 M For FY 2016/17 CIP

FY 2016/17 CIP – Production & Main Replacement

Project # from 2016 WMP	Production Project/Program Name	Total Estimated Cost
NA	Well 1 Replacement (Initial Drilling Phase Only)	\$1,250,000
22	Peck Booster Dual Drive and Well 7 Security	\$1,500,000
24	Well #9 Hydrogen Sulfide Odor Treatment	\$1,000,000
26	New Well #14 by McFadden Avenue and Gothard Street	\$500,000
49	Water Production System Improvements	\$110,000
Total		\$4,360,000

6 Production
Projects/Program



Project # from 2016 WMP	Main Replacement Project/Program Name	Total Estimated Cost
21	OC-44 San Diego Creek Crossing Rehab via Pipeline Sliplining - Phase I (City portion only)	\$1,035,000
25	WOCWB OC-35 33" Pipe Replacement by Westminster Blvd and Springdale Street (City portion only)	\$210,000
33	8" Pipe Replacement in Admiralty Bridge	\$25,000
34	8" Pipe Replacement in Humboldt Bridge	\$25,000
37	8" Pipe in Replacement In Bridge by Sugar Avenue and McFadden Avenue	\$75,000
Total		\$1,370,000

5 Main Replacement
Projects/Program



FY 2016/17 CIP – Distribution, Corrosion Control & Security

Project # from 2016 WMP	Distribution Project/Program Name	Total Estimated Cost
1	Beach Blvd. Pipeline Imps.	\$700,000
47	Water Distribution Improvements	\$110,000
Distribution		Total
2 Project/Program		\$810,000



Project # from 2016 WMP	Corrosion Control Project/Program Name	Total Estimated Cost
48	Water System Corrosion Control	\$55,000
Corrosion Control		Total
1 Program		\$55,000



Project # from 2016 WMP	Security Project/Program Name	Total Estimated Cost
57	Water Facilities Security Improvements	\$25,000
Security		Total
1 Project/Program		\$25,000



ATTACHMENT #3

City of Huntington Beach (6/15/16) 2016 WATER MASTER PLAN UPDATE



Presented by: Duncan Lee, P.E.
Principal Civil Engineer

Goals & Objectives For a Water Master Plan

Wells

Reservoirs

Pump Stations

Pipes

Hydrants

Meters

Foods

Health

Economy

Recreation

Aesthetic

Fire Protection

Future

Vital Services

Drinking

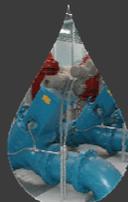
Goals & Objectives For a Water Master Plan (Con't)



Wells



Reservoirs



Pump Stations



Pipes



Hydrants



Meters

Maintain a Reliable Water Infrastructure



Financially Sustainable into the Future

Cost To Replace Our Water Infrastructure?

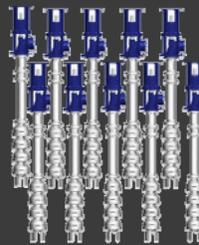


- 4 Reservoirs/Tank
- 3 Zone 1 Boosters
- 2 Zone 2 Boosters

\$110 M

611 Miles of Large & Distribution Mains

\$900 M

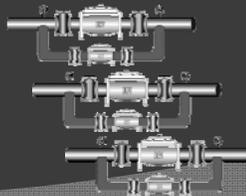


10 Wells (8 Active)

\$50 M

3 Import Connections

\$5 M



20 Miles of Shared Large Mains

\$80 M

Cost To Replace Our Water Infrastructure? (Con't)

53,091
Meter Connections
\$220 M



Yard, Trucks,
Equipment, etc
\$20 M

5,801
Public Hydrants
\$29 M



Over \$1.4 Billion

17,749
Large Valves
\$20 M



Why the Need for Water Master Plan?



New Reservoirs &
Booster Stations



New
Wells



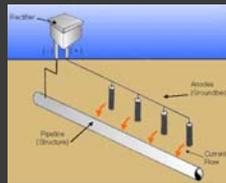
Main Replacements
and Extensions



Maintain a Healthy Water Infrastructure & Plan for the Future



Treatment and
Improvements
At Production Facilities



Corrosion Control
(Multi-Phases)



Transmission Main
Replacement and
Extensions

Since 2012:

Lost 2 of 10 Wells		 OC-44 Leak Repair
Sunset Beach Main Extensions & Replacements		 405 Fwy Widening
Old AC Pipe		 Water Odor Treatment

WMP Addresses These Infrastructure Needs

What Topic are Covered in the Water Master Plan?

		
1. City Characteristics and Projected Growth	2. Water Demand	3. Supply & Reliability
4. Facilities & Operation	5. Storage & Emergency Supply	6. Hydraulic Modeling
		

What Topic are Covered in the Water Master Plan? (Con't)

7. Capital Improvement Program

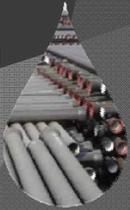
8. Asset Management



Highlight of Completed WMP Projects Since 1995

- Corrosion Control 10 Miles of Transmission Main
- Chlorine Tank Containment At Well 6, 7, 9, 10 & 13
- New 3.5 Miles of OC-9 Transmission Main
- Downtown Cast Iron Main Replacement 7 Miles
- Overmyer Reservoir Renovation 20 MG
- Water Well 12
- Overmyer Booster Station
- Southeast Reservoir Site Acquired 4.5 Acres
- New Springdale Reservoir 9 MG

Summary of Projects from 2012 WMP

<u>Completed</u>	<u>Under Design</u> <small>(High Priority)</small>	<u>Deferred</u>
<p>Pipeline Corrosion II</p> 	<p>Beach Blvd Pipeline & Fire Protection Improvements</p> 	<p>Southeast Reservoir / Booster Station & Well 13 Permanent Wellhead</p> 
<p>Cast Iron Main Replacement</p> 	<p>Well 1 Replacement</p> 	<p>Southeast Transmission Main & New Connection to Overmyer</p> 

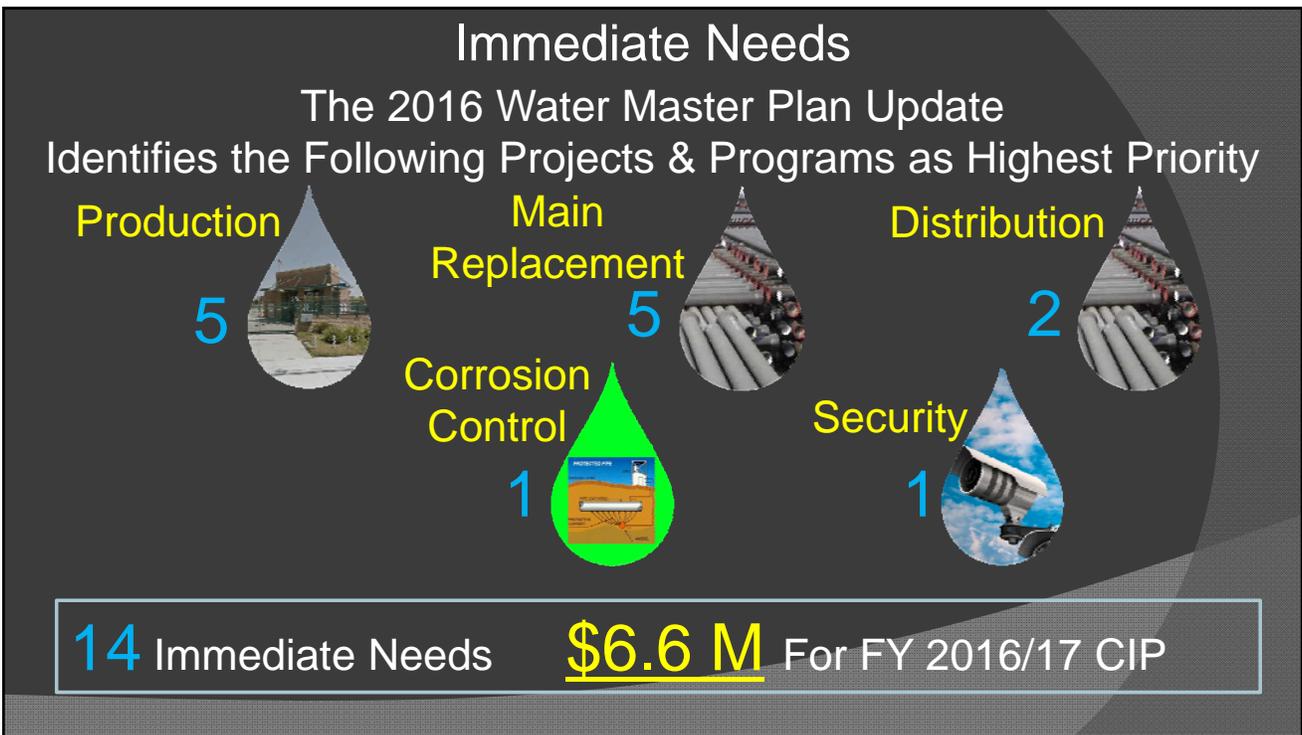
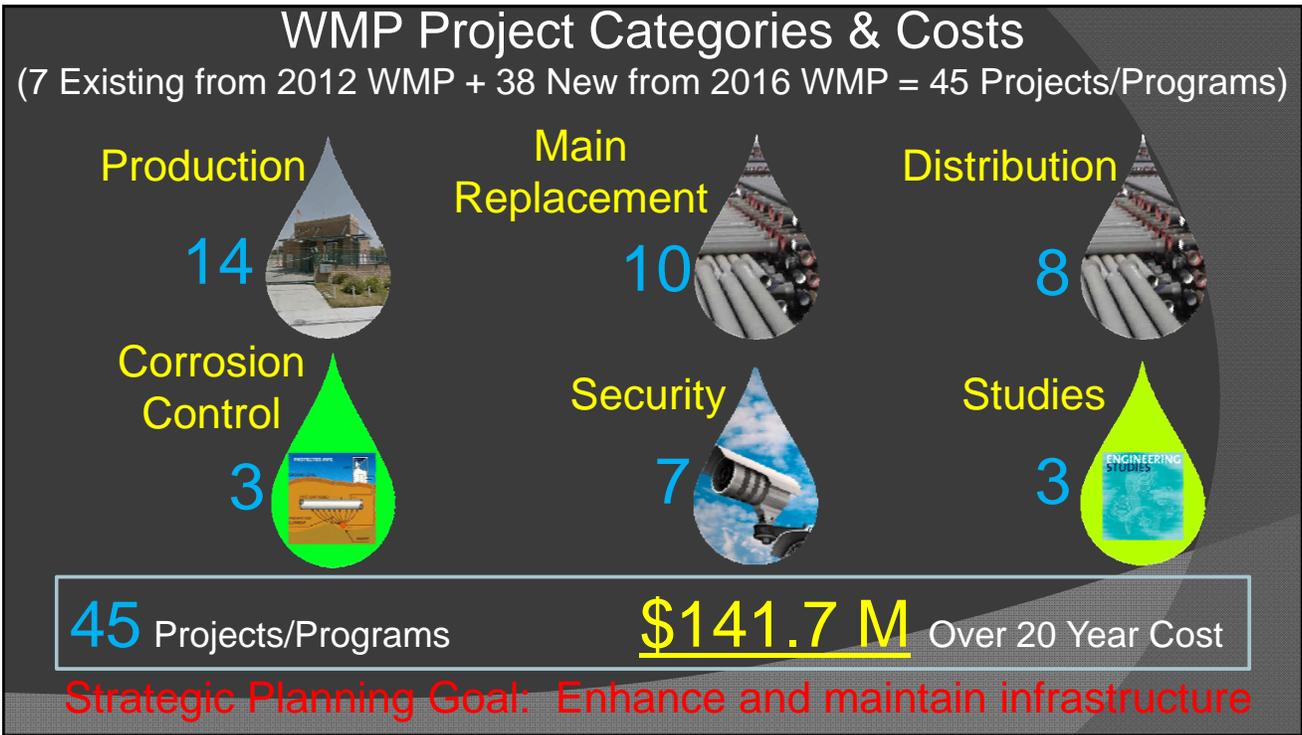
Summary of Projects from 2012 WMP (Con't)

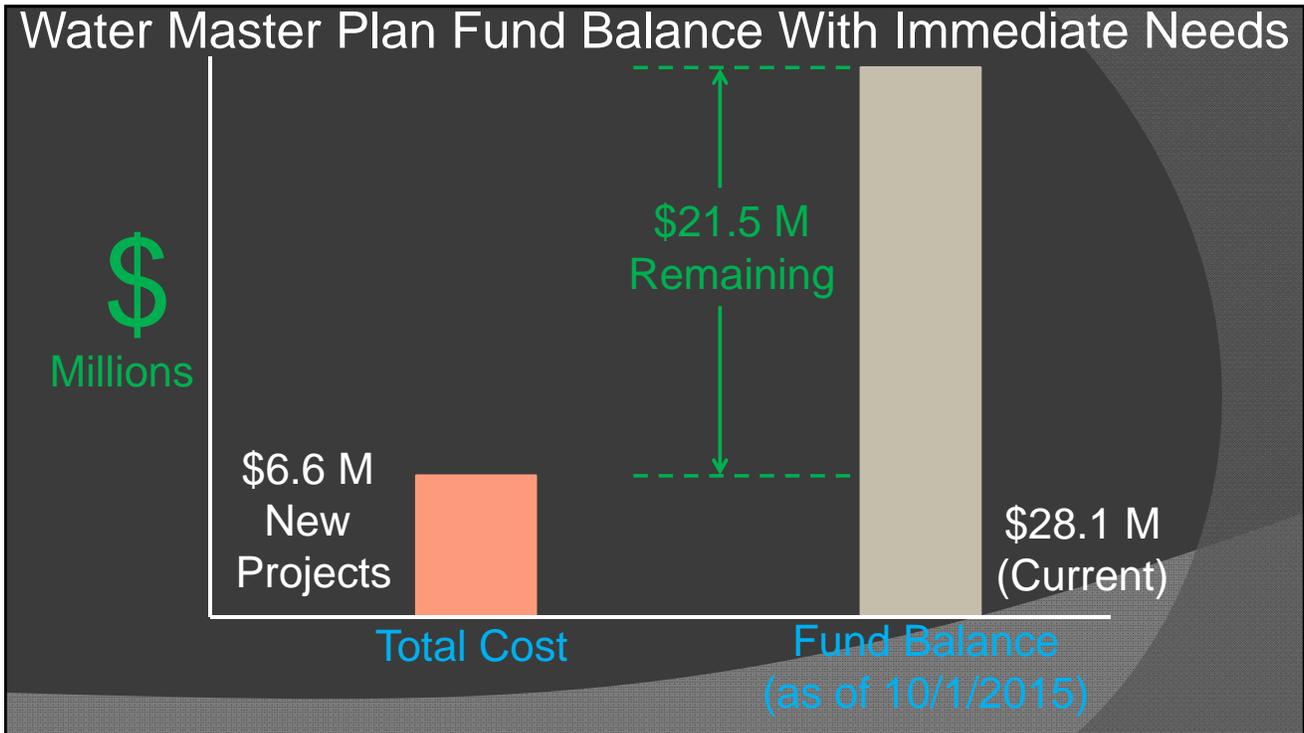
7 Remaining
\$38.3 M

- **4** Deferred
\$33.0 M *

= **3** Projects
\$5.3 M

** Deferring Allows Fund to be Used for Other New Projects*





Future Staff Recommendation to Council

Adopt the 2016 Water Master Plan Projects to be implemented by using available Water Master Plan Funds. No Council action is requested at this time to re-instate or implement a funding mechanism to replenish the Water Master Plan Fund.

Next Steps?

The 2016 Financial Plan will evaluate several funding scenarios. In the near future, staff will present to City Council various long term financial plan options.

Questions & Answers