


Project Title: Chelford City Diversion Package 2

WBS No.: R-000536-0024

City Design PM: Bashar Khalil

Submittal Dates: PER/30% 60% 100%

10/10/2016

Engineer of Record (EOR) PM: Hazen Subconsultant 1 / Functional Area: Subconsultant 2 / Functional Area: Subconsultant 3 / Functional Area:	 f
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CITY OF HOUSTON							EOR					CONFIRMATION		
CITY REVIEWER COMMENTS							EOR RESPONSE			COMMENT RESOLUTION MEETING ⁽¹⁾			100% BLACKLINE MEETING ⁽²⁾	MYLAR ⁽³⁾
Submittal Type	Comment No.	Reviewer Name	Reviewer Functional Area	Doc/Spec No.	Sheet No.	Comment	Action Code	Response (Describe adjustment, reason for disagreement, or requested points of clarification)	Responder Name	Resolve Code	Resolve Date	Final Response	Verified by City Design PM Y/N	Final Action Date
60%			STREET & BRIDGE MAINT			NO COMMENTS RECEIVED								
60%			STREET & TRAFFIC ENGR			NO COMMENTS RECEIVED								
60%				ROW MAINTENANCE ?		NO COMMENTS RECEIVED								
60%	1	Ellen Mass	STORM WATER ENGR			NO COMMENT PROVIDED VIA MEMO	A	Acknowledged, no comment	Jay London					
60%	2	Joaquin Lopez	WATER ENGR			NO COMMENT PROVIDED VIA EMAIL	A	Acknowledged, no comment	Jay London					
60%	3	Geyan Zuo	WASTEWATER OPS		10	There is a 30 feet difference between the flow lines of the 60" along West Park and the 24" stub out, will a drop structure be proposed/installed in this project or the other contractor for diversion of Synott LS need to provide a drop?	A	A vortex drop has been included in the design. Coordination with the Synott LS team is on-going	Jay London					
60%	4	Geyan Zuo	WASTEWATER OPS		10	Profile needs to show the tie in of 60" along Benfield to 60" along west park	A	Added 60" tie in to profile	Jay London					
60%	5	Geyan Zuo	WASTEWATER OPS		23	What are the elevations of the stub outs?	A	N/A - Part of 024A	Jay London					
60%	6	Geyan Zuo	WASTEWATER OPS		General	The latest TCEQ 217 requires to install MH cover without holes, venting of the sewer need to be considered.	A	All manholes are proposed to be vented. Detail for venting shown on C-28. Vent locations to be shown on 90% submittal on plan sections	Jay London					
60%	7	Geyan Zuo	WASTEWATER OPS		General	Demolition of the Alief Central LS structure and FM need to be included in the plan.	A	To be provided in 90% submittal	Jay London					
60%	8	Geyan Zuo	WASTEWATER OPS		General	Details show type A and type B of 120" manholes. Need to identify the type of MHs proposed on plan and profile.	A	To be shown in 90% submittal	Jay London					
60%	9	Geyan Zuo	WASTEWATER OPS		General	What is the material of the proposed pipes?	A	Proposed pipes are labeled on the plans as FRP. FRP is Fiberglass reinforced pipe per specification 02504	Jay London					
60%	10	Sam Habibi	NEIGHBORHOOD ENGR		N/A	This project is located within the AE zone (100 yr. flood plain), needs Floodplain Management Office (FMO) review and approval. Proposed pipe crosses HCFC channels, need (No Suggestions) approval.	A	We are coordinating with Floodplain Management Office to get approved BFEs. Plans will be submitted to HCFC.	Jay London					
60%	11	Sam Habibi	NEIGHBORHOOD ENGR		N/A	What is the FIRM No.(s) for this site? Need to show.	A	The FIRM No for this site is 48201C0830L. This information will be included in an overall map and on each sheet, along with the BFE.	Jay London					
60%	12	Sam Habibi	NEIGHBORHOOD ENGR		9, 10	Pipe between sta. 0+68.6 and 3+17.42, slope should be 0.04%.	A	Invert elevations will be modified to provide a 0.10% slope	Jay London					

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60%	13	Sam Habibi	NEIGHBORHOOD ENGR		9, 10, 11, 12	Pipe between sta. 3+17.42 and 9+56.82, slope is approximately 0.11% and pipe length is 629 LF!	D	Please note that stationing goes from center of manhole to center of manhole, lengths shown are from outside of manhole to outside of manhole. The stationing is also not along the length of the pipe but in the center of the road. Using stationing the pipe length would be 639 but this is not accurate. The lengths shown on the drawings are the lengths from the outside of the manhole to the outside of the manhole along the pipe. These lengths should be used for calculating slopes and inverts.	Carol Serna		01-18-2017	Commenter not present		
60%	14	Sam Habibi	NEIGHBORHOOD ENGR		11, 12, 13, 14	Pipe between sta. 9+56.82 and 17+28.11, total pipe length should be closer to 762!	D	We are showing a pipe length of 758. The difference of 4 feet is likely due to the pipe measurement from the outside of manhole to manhole instead of center to center. Also possible due to short length between 10+00 and 15+00	Carol Serna		01-18-2017	Commenter not present		
60%	15	Sam Habibi	NEIGHBORHOOD ENGR		13, 14	Why is pipe length between sta. 10+00 and 15+00 498 LF and not 500 LF?	A	It appears that the length of the pipe is not drawn to the edge of the stationing. The drawing, lengths and slopes will be updated accordingly	Jay London					
60%	16	Sam Habibi	NEIGHBORHOOD ENGR		19, 20	Label HCFCD channel designation on both plan and profile.	A	We will label both sheets with the HCFCD information	Jay London					
60%	17	Sam Habibi	NEIGHBORHOOD ENGR		21, 22	Pipe between sta. 30+17.32 and 33+20.49, slope should be closer to 0.08%!	A	Invert elevations will be modified to provide a 0.10% slope	Jay London					
60%	18	Sam Habibi	NEIGHBORHOOD ENGR		21, 22, 23, 24	Pipe between sta. 33+20.49 and 38+81.19, slope should be closer to 0.10%!	A	Invert elevations will be modified to provide a 0.10% slope	Jay London					
60%	19	Sal Barbosa	SURVEY		Survey Control Maps	Need field book number	A	To be provided in 90% submittal. Field book number is P-5916	Jay London					
60%	20	Sal Barbosa	SURVEY		Survey Control Maps	Need full COH Monument numbers recovery sheets	A	To be provided in 90% submittal	Jay London					
60%	21	Dale Temple	PARKS & REC		General	(received via email 09-29-16) Why are the large trees in the esplanade proposed for removal. Is it tunneled?	A	Generally, the proposed trees for removal are based off of the traffic control needs. In order to divert traffic with the proper taper there will be several median cuts. Additionally, there is a location or two where trees have been cleared (not large trees) for contractor staging purposes.	Jay London					
60%	22	B. Alcott	Construction		4	We need to protect the pedestrians on the hike and bike trail.	A	Contractor is responsible for site security, see section 10.3 including 10.3.3. Additionally, specification 01145 - use of premises states in 1.10.2 that sidewalks should be kept free of equipment, materials and stockpiles. The proposed shafts near the hike and bike trail in the HCFCD ROW should not require conflict with the trail.	Jay London					
60%	23	B. Alcott	Construction		4	Why do the sheets start here? And not @ Dairy Ashford or the Lift Station and go continuously to the Lift Station or Dairy Ashford? Just curious.	A	This is a COH IDM requirement 3.04.H "Plan stationing must run from left to right, except for short streets or lines originating from a major intersection, where the full length can be shown on one sheet"	Jay London					
60%	24	B. Alcott	Construction		4	A Harris county flood control permit is required for this construction. Just making sure that they will be reviewing the plans and we will get them signed by Harris County.	A	A copy of the plans has been sent to HCFCD for review. We will obtain approval and signatures before project is complete.	Jay London					
60%	25	B. Alcott	Construction		5	Do we have an agreement to work in HL&Ps ROW?	A	We have submitted a Grants to Others Application. This application will provide us an easement for the pipeline, approval is pending	Jay London					
60%	26	B. Alcott	Construction		5	Should all the easements in this area be called out on the survey?	D	This section is the survey control plan, used to show just the benchmarks and control points. Additional survey information such as ownership, easements and elevations are not shown.	Carol Serna	A	01-18-2017	Hazen response accepted		
60%	27	B. Alcott	Construction		9	The sidewalk west of MH#8 is used to access the elementary school. We should look at this from a school safety point of view. Its best to contact the principal, let them know what we are planning. They could tell you how many walkers they. They also need to be aware of he project.	A	We will show a detour plan for the sidewalk, likely relocate it farther west during construction of the shaft. The school is aware of the project, we will continue to coordinate with them.	Jay London					

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60%	28	B. Alcott	Construction		9	The plans call out a 16ft easement. Who's easement?	A	Will update with easement information: 16' Utility Easement (Vol 255, Pg 9s HCMR)	Jay London					
60%	29	B. Alcott	Construction		9	At sta 0+00 "WestPark Dr" should be "Easement"	A	Will update	Jay London					
60%	30	B. Alcott	Construction		9	All existing elements should have a light weight. The proposed is the only thing that should pop off the page.	A	Everything but proposed will be screened back so that existing appears lighter	Jay London					
60%	31	B. Alcott	Construction		9	MH#7 - there is a crosswalk here. What does construction at this location mean for the pedestrian or school kids walking to school? Should there be provisions in the contract to address this?	A	We will show relocation of the crosswalk and sidewalk to allow for construction without impeding access	Jay London					
60%	32	B. Alcott	Construction		9	Driveways at MH#7 - seems like we talked about this. Will these driveways be an issue for the TCP?	A	Owners will be exiting into one lane of traffic but still doable in regards to access for driveways. Flagger will likely be needed at this location, hours of flagger to be calculated.	Jay London					
60%	33	B. Alcott	Construction		11	AT&T Texas/SWBT callout - what is this? How big? How deep?	A	We are coordinating with AT&T Texas/SWBT for verification of their lines	Jay London					
60%	34	B. Alcott	Construction		11	What about services at these shaft locations? Sanitary/water? Do we need pay items for this?	A	This is covered under COH Standard Specification 01504 Temporary Facilities and Controls. It states that no separate payment will be made for temporary facilities and controls required under this section. This includes water and sanitary facilities	Jay London					
60%	35	B. Alcott	Construction		11	The proposed work needs to pop off the page. Everything else needs to be lighter.	A	See response to comment 30 above	Jay London					
60%	36	B. Alcott	Construction		11	Do we need a pay item for curb for MH#6?	D	This is covered in specification 02400 Tunnel Shafts "Removal and replacement of surface improvements necessary for shaft construction, including but not limited to sidewalks, asphaltic or concrete pavement, base and subbase, curbs, curb and gutter, driveways, topsoil, sodding, and hydro-mulch shall be included in lump sum for tunnel shafts"	Carol Serna	A	01-18-2017	Hazen response accepted		
60%	37	B. Alcott	Construction		15	Pay item for curb?	D	See response above to comment 37	Carol Serna	A	01-18-2017	Hazen response accepted		
60%	38	B. Alcott	Construction		17	The utility near MH#4 needs to be called out.	A	Will add callout for AT&T TEXAS/SWBT	Jay London					
60%	39	B. Alcott	Construction		17	In order to install this shaft this utility will need to be relocated. How are you addressing this?	A	We are coordinating with utilities at the 60%. We have submitted plans to utilities, next step is to coordinate relocations assuming no shift in shaft locations from 60% comments	Jay London					
60%	40	B. Alcott	Construction		17	Drafting - BH 4 is clipped.	A	Will update drafting	Jay London					
60%	41	B. Alcott	Construction		19	Can you show the abutment piles as well? I attached the original bridge plans. The more we can show the better off we will be in this area.	A	Yes we will show the abutment piles to the best of our ability. Please note that these are asbuilts drawings and therefore language will be incorporated to state it is such and that it has not been verified.	Jay London					
60%	42	B. Alcott	Construction		19	Seems like we discussed an old existing abutment in this area. Can you show it on the plans? As much information as you can show the better.	A	Yes you can see the old abutments on the plans you provided. The old existing abutments are the 25' long ones.	Jay London					
60%	43	B. Alcott	Construction		19	Did you pull the bridge plans? It would be good to put the abutment shafts as well. Also, the bridge plans may show additional information that may need to be shown on these plans.	A	We did pull the bridge plans but the sheets you provided were the only ones that were relevant.	Carol Serna					
60%	44	B. Alcott	Construction		19	Concerns about crossing: See remarks on sheet. Maintenance: How would maintenance make a repair in the future if needed? Construction: What if we do run into something under the bayou? Should we put a shaft on either side of the bridge and case the pipe in this location?	A	The current shaft locations are the best locations on either side of the bayou. It is unlikely that HCFCD will allow you to place shafts in their ROW for this work. There are inherit risks with the crossing of the bayou locations. Future repairs for this line will occur from the manholes. The line is large enough for man entry. A major failure would likely result in pipe bursting or other tunneling efforts. If we encounter or hit something under the Bayou there will likely need to be an open excavation to retrieve the boring machine and remove the obstacle.	Jay London					
60%	45	B. Alcott	Construction		21	There is a "AT&T Texas/SWBT" survey callout - what is this calling out?	A	It is referring to a AT&T conduit box that is obscured by a callout. The callout will be moved to show the box	Jay London					
60%	46	B. Alcott	Construction		25	Are we digging in the Railroad's right of way? We will need an agreement.	A	This is in Real Estate's court	Jay London					
60%	47	B. Alcott	Construction		25	I'm confused. So who's property is this shaft on?	A	This is in Real Estate's court	Jay London					
60%	48	B. Alcott	Construction		25	I can not follow the boundaries of the AISD property and the Mary Lou property.	A	See response above to comment 47	Jay London					

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60%	49	B. Alcott	Construction		25	Keep in mind that we will have pipe and equipment all around this area so we will need an agreement with the property owner before accepting this project.	A	See response above to comment 47	Jay London					
60%	50	B. Alcott	Construction		25	We will be using large equipment to create the shaft and unload/lower the pipe. Will OH power lines be an issue?	A	Once relocation of the sidewalk to the west occurs, there should be sufficient working area to avoid the overhead lines. A note will be added to this sheet to reinforce that there are overhead lines in the area.	Jay London					
60%	51	B. Alcott	Construction		27	We need to basically run our equipment along the baseline to access the MH#9 location. Will there be an agreement in place so we can access this? I'm assuming the access would be from Westpark.	A	See response above to comment 47	Jay London					
60%	52	B. Alcott	Construction		27	circle with 758 callout - what is this?	A	This appears to be calling out a property corner, callout removed not necessary for construction	Jay London					
60%	53	B. Alcott	Construction		29	How is the contractor accessing this location?	A	The contractor will enter the property from the Richmond Avenue to the north. The access is shown on the SWPPP drawing, note added to the plans	Jay London					
60%	54	B. Alcott	Construction		29	The direction of flow call out seems out of place with a gravity line. Just put the words 'direction of flow' next to the arrow in the creek.	D	"stormwater" added to direction of flow. There are several arrows on several sheets.	Carol Serna	A	01-18-2017	Hazen response accepted.		
60%	55	B. Alcott	Construction		31	Is the arrow pointing south indicating the swale?	A	Yes, there is a swale in that location	Jay London					
60%	56	B. Alcott	Construction		33	Provide access information. There appear to be two gates. How do we get in? Who do we need to coordinate with?	A	This is COH owned property. The contact for the gate is listed on the sign and the contractor will need to notify the City before being onsite. Coordination will be with Construction PM.	Jay London					
60%	57	B. Alcott	Construction		33	Is any of this COH property? If so, what are the limits?	A	Yes the whole site is COH property,	Jay London					
60%	58	B. Alcott	Construction		33	Will we have agreements with the utility districts to work in this area?	A	City of Houston property	Jay London					
60%	59	B. Alcott	Construction		33	"Unable to see pipes" - How do we know what the elevations at MH#12 should be??	A	The elevations are taken from the asbuilts from the manholes and from the lift stations. The callout is to "match existing". Manhole 12 outgoing pipe is 10 feet below existing line, therefore small changes in elevation should not be a problem.	Jay London					
60%	60	B. Alcott	Construction		33	.Is this the Alief-Central Lift Station referred to in the 1110? If so, label is clearly here.	A	Will label Lift Station	Jay London					
60%	61	B. Alcott	Construction		33	There needs to be more direction about what is needed to abandon this lift station. When we abandon lift stations there is a lot more detail that goes along with this. We abandoned one on Eppes Frawley. You might look at those plans. We included the old lift station plans, notes, etc.	A	There will be demolition site plan, electrical demolition site plan, as well as plan and profiles for the lift station structure that include mechanical demolition. We will review the Eppes Frawley drawings when they are provided	Jay London					
60%	62	B. Alcott	Construction		35	Is this detail assuming a precast manhole?	A	Callout for manhole wall has been updated to include "PRECAST POLYMER CONC" manhole	Jay London					
60%	63	B. Alcott	Construction		36	I'd like to understand these details? Why are we using the Detail 2, 3, and 5? What specs do we have for this?	A	The details are for each individual case, they will be listed on the drawings for the 90% submittal	Jay London					
60%	64	B. Alcott	Construction	1110		In the 1110 make the contractors aware of the very dense sands, and the possible difficulty in micro tunneling that may be present on the project.	A	The following sentence will be added to the summary of work "Contractor should review provided geotechnical information for soil conditions and possible presence of unsuitable tunneling materials"	Jay London					
60%	65	B. Alcott	Construction	1110		Dewatering Permit Fee Allowance - is there such a permit?	A	This Allowance removed from documents 01110 and 00410.	Jay London					
60%	66	B. Alcott	Construction	1110		Coordination of Work - Have you checked to see if any storm or water projects are going on in this area at this time?	A	Yes, projects potentially requiring coordination are enumerated in Article 1.06.B of this document. Project information has been revised to reflect the latest information available on COH GIMS site.	Jay London					
60%	67	B. Alcott	Construction	Spec 01506S		Will the EOR approve this submittal or just Acknowledge Receipt?	A	Engineer of record will acknowledge receipt	Jay London					
60%	68	B. Alcott	Construction	Spec 01506S		Although it falls back on 1330 the words submit "prior to installation" leads one to believe they can just submit this the day before.	A	Supplement language modified to state submission should be in conjunction with 01330 and approval required prior to installation.	Jay London					

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60%	69	B. Alcott	Construction	Spec 02081S		This is good but vague. Put exactly what you want to see. Do you want shop drawings? Just a reinforcing schedule?	A	Phrasing will be updated to say "Contractor shall submit shop drawings that include proposed reinforcement and a reinforcement schedule. Shop drawings shall be prepared, stamped and sealed by a currently registered Professional Engineer licensed in the state of Texas"	Jay London					
60%	70	JoAnne Kamman	STORM WATER MAINT	Plan	2	Delete all Storm Sewer, Waterline and grading notes. We don't design and spec products by note	D	Standard City notes stay, as directed. Note, standard notes have changed since this review took place.	Jay London					
60%	71	JoAnne Kamman	STORM WATER MAINT	Plan	2	Delete General Noted 6-9. Explain why we are calling OCE in Note 5. Who is the contractor calling and why is he calling	D	Standard City notes stay, as directed. Note, standard notes have changed since this review took place.	Jay London					
60%	72	JoAnne Kamman	STORM WATER MAINT	Plan	2	Delete all Sanitary Sewer Notes	D	Standard City notes stay, as directed. Note, standard notes have changed since this review took place.	Jay London					
60%	73	JoAnne Kamman	STORM WATER MAINT	Plan	2	Delete Street & Bridge Notes 1-4 and 6. Note 5 should be a bubble note and shown at every location where new pavement joins old pavement. Note 7 -need a spec and pay item for it.	D	Standard City notes stay, as directed. Note, standard notes have changed since this review took place.	Jay London					
60%	74	JoAnne Kamman	STORM WATER MAINT	Plan	9	These notes apply to all P&P sheets - Are you removing and replacing curb? Talk about removing and replacing pavement. Curbs are a separate pay item. No mention of curbs.	A	All pavement and curb replacement is incidental to shaft construction, and has been noted as such.	Jay London					
60%	75	JoAnne Kamman	STORM WATER MAINT	Plan	9	You are removing curb at median noses. When you do that, the noses should be brought up to spec which involves the pavement in the median noses. No call out for that work.	A	Detail added for median noses and callouts added to traffic plans where road pavement is shown	Jay London					
60%	76	JoAnne Kamman	STORM WATER MAINT	Plan	9	Has someone adopted these esplanades? Have you talked with them about the work? Have you talked with them about impacts? There may be irrigation systems in some of these medians if adopted. How repair and pay?	A	Yes we are working with the contact for the HOA	Carol Serna					
60%	77	JoAnne Kamman	STORM WATER MAINT	Plan	9	Are you required to replace any landscaping in the esplanades? How pay?	A	We are working on coordinating landscape replacement with the HOA. This will be included in the 90% submittal	Carol Serna					
60%	78	JoAnne Kamman	STORM WATER MAINT	Plan	11	Going to possibly have a conflict with ATT at this shaft. They are never where they are supposed to be.	A	We are coordinating with ATT and contractor is required to field verify all utilities prior to excavation	Carol Serna					
60%	79	JoAnne Kamman	STORM WATER MAINT	Plan	17	Are utilities being relocated at this shaft - SWB and storm sewer. It is very close for this storm sewer.	A	We are coordinating with ATT, we will submit conflicts to them for relocation.	Carol Serna					
60%	80	JoAnne Kamman	STORM WATER MAINT	Plan	General	You are going to need several stabilized construction exits for this project due to the CP Easement and site work.	A	These are shown on the SWPPP sheets. There is one shown for access from Richmond. A second will be added off of Westpark Drive to the CP Easement	Carol Serna					
60%	81	JoAnne Kamman	STORM WATER MAINT	410B	39	Might want to talk with construction, but the detail for pavement restoration does not address the curb. The detail shows the curb to remain in place. That is not going to happen. How pay for that. Also, with your traffic control, same thing.	D	The pavement restoration detail 02751-01 shows the curb. Curb detail 02771-01 has been added. The pavement restoration details 02951-01 note 4 and 02951-02 note 5 say "Replace curb when adjacent lane is replaced". The payment for the road repair is part of the shaft construction and is included.	Carol Serna	A	01-18-2017	Discussed with construction. Hazen response accepted.		
60%	82	JoAnne Kamman	STORM WATER MAINT	410B	39	Also, how address median noses since you are removing most of these median noses. Going to have to build them back to spec. Involves bid items.	C	This will require further discussion. We can build back the noses we are removing to spec, with the concrete nose. However, that will leave different medians along the road as we are not removing all noses. It will also require removing landscaping by the HOA.	Carol Serna	A	01-18-2017	Waiting on construction to reply about medians		
60%	83	JoAnne Kamman	STORM WATER MAINT	410B		No cross section for your temporary pavement. Need that cross section to be big enough to minimize the maintenance. Show how to build the temporary road.	A	Cross section will be shown for temporary pavement in 90% submittal	Jay London					
60%	84	JoAnne Kamman	STORM WATER MAINT	Plans	General	No cross section for your permanent pavement. What is the typical cross section of the pavement.	A	Cross section for pavement is shown in detail 02751-01 on sheet C-29	Jay London					
60%	85	JoAnne Kamman	STORM WATER MAINT	410B	Extra Unit Price	Items 1-3 - not supposed to have these in the extra work items. If geotech says you anticipate hitting it, must be a regular item in the General Section.	A	Estimated quantities based on geotech will be shown under bid items 26-28 in the Base Unit Price Table. Extra Items will be removed.	Jay London					

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City Design PM: Bashar Khalil

Submittal Dates: PER/30% 60% 100%

10/10/2016

Engineer of Record (EOR) PM:	Hazen
Subconsultant 1 / Functional Area:	
Subconsultant 2 / Functional Area:	
Subconsultant 3 / Functional Area:	



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CITY OF HOUSTON							EOR					CONFIRMATION		
CITY REVIEWER COMMENTS							EOR RESPONSE			COMMENT RESOLUTION MEETING ⁽¹⁾			100% BLACKLINE MEETING ⁽²⁾	MYLAR ⁽³⁾
Submittal Type	Comment No.	Reviewer Name	Reviewer Functional Area	Doc/Spec No.	Sheet No.	Comment	Action Code	Response (Describe adjustment, reason for disagreement, or requested points of clarification)	Responder Name	Resolve Code	Resolve Date	Final Response	Verified by City Design PM Y/N	Final Action Date
60%	86	JoAnne Kamman	STORM WATER MAINT	Plan	410B	No temporary pavement markings?	A	Temporary pavement markings are included in traffic control and regulation. It states in specification 01555 - Traffic control and regulation "Payment for traffic control is on a lump sum basis. Include preparation and submittal of traffic control plan if different than shown on Drawings, and provision of traffic control devices, equipment, and personnel necessary to protect the Work and public. Payment will be based on Contractor's Schedule of Values for traffic control and regulation" Quantities have been provided in the plans for markings. Additionally, traffic operations has requested the use of permanent markings due to the length of construction. This will be reflected in the 90% submittal.	Jay London					
60%	87	T Regabay	TRAFFIC OPS	Plans	C-3	Shift shaft to median lane and allow one lane of passage	D	Shaft construction requires both lanes of traffic to be blocked. Resolved in meeting.	Carol Serna	A	01-18-2017	Hazen response accepted		
60%	88	T Regabay	TRAFFIC OPS	Plans	C-7	Why zig-zag from northern lanes to southern lanes	A	Zig zagging occurs because shafts are located to avoid driveways that front to Westpark Drive and other constructability restrictions	Jay London					
60%	89	T Regabay	TRAFFIC OPS	Plans	C-13	Pits on median side	A	See response to comment 87 above	Jay London					
60%	90	T Regabay	TRAFFIC OPS	Plans	C-15	Why zig-zag from northern lanes to southern lanes	A	See response to comment 88 above	Jay London					
60%	91	T Regabay	TRAFFIC OPS	Plans	T - Phase 1 - Shaft 1&2 - Sheet 1 of 2	Temporary signals for shift	A	This change will be added	Jay London					
60%	92	T Regabay	TRAFFIC OPS	Plans	T - Phase 1 - Shaft 1&2 - Sheet 2 of 2	Tree removal for temp road	A	Tree removal plans provided in set	Jay London					
60%	93	Juan Diaz Ortiz	FLOODPLAIN MGMT OFFICE	General		Provide overall site lay out with floodplains zone delineation, including the floodway	A	This will be added to the plans	Jay London					
60%	94	Juan Diaz Ortiz	FLOODPLAIN MGMT OFFICE	Plans		Delineate the floodway zone on sheets C-21, C-23 and C-11	A	This will be added to the plans	Jay London					
60%	95	Juan Diaz Ortiz	FLOODPLAIN MGMT OFFICE	General		Proposed manholes must be flood proofed at least 12 inches above the 100 year BFE or rim elevation must be elevated at least 12 inches above the 100 year BFE.	A	All manholes are sealed and vented. Vents are at least 12 inches above 100 year BFE. See response to comment 6 above.	Jay London					
60%	96	Juan Diaz Ortiz	FLOODPLAIN MGMT OFFICE	General		Submit a Flood proof Certificate for each proposed sanitary sewer manhole. This document must be issued by a registered professional engineer licensed in the State of Texas which states that he has developed and/or reviewed the structural design, specifications, and plans for the construction of the structures or improvements covered by the certificate and that the design and methods of construction are in accordance with accepted standards of practice for meeting the following requirements: (a) Designed to prevent or eliminate infiltration of floodwaters into the structure's systems and discharge of sewage into floodwaters.	A	Documents will be provided as requested	Jay London					
60%	97	Juan Diaz Ortiz	FLOODPLAIN MGMT OFFICE	General		Submit a Non Impact certification. The applicant must provide a letter addressed to the City engineer certifying that the proposed development will cause No Adverse Impact to the floodway and HCFCD unit D129-00-00. The letter must be signed and sealed by a registered professional engineer licensed in the state of Texas.	A	Documents will be provided as requested	Jay London					
60%	98	Juan Diaz Ortiz	FLOODPLAIN MGMT OFFICE	General		HCFCD approval will be required prior final FMO approval.	A	HCFCD approval will be provided	Jay London					
60%	99	Juan Diaz Ortiz	FLOODPLAIN MGMT OFFICE	General		Flood Development Permit fees must be paid upon final approval.	A	All required fees will be paid by the City of Houston upon final approval	Jay London					
60%	100	B. Alcott	Construction	Traffic		Comment provided during Resolution Meeting	A	Prior to any road closures, Contractor to place CMS flashing signs one week prior to start of construction. Signs should have dates for closure.	Carol Serna					
60%	101	B. Alcott	Construction	Traffic		Comment provided during Resolution Meeting	A	Near shaft 4 place signs stating information such as - local traffic only, for driveway access, no outlet	Carol Serna					

REVIEWER FUNCTIONAL AREAS

WATER ENGR

ACTION CODES / RESOLVE CODES

A = Accept; adjustments made


Project Title: Chelford City Diversion Package 2

WBS No.: R-000536-0024

City Design PM: Bashar Khalil

Submittal Dates: PER/30% 60% 100%

	10/10/2016	
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CITY REVIEWER COMMENTS							EOR RESPONSE			COMMENT RESOLUTION MEETING ⁽¹⁾		100% BLACKLINE MEETING ⁽²⁾	MYLAR ⁽³⁾	
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- WASTEWATER ENGR
- STREET & TRAFFIC ENGR
- NEIGHBORHOOD ENGR
- STORM WATER ENGR
- INTERAGENCY COORD
- CONSTRUCTION
- SURVEY
- GEO-ENVIRO SERVICES
- TRAFFIC OPS
- STORM WATER MAINT
- STREET & BRIDGE MAINT
- WASTEWATER OPS
- DRINKING WATER OPS
- UTILITY MAINT
- INFRASTR PLANNING
- FLOODPLAIN MGMT OFFICE
- CITY ENGINEER
- REAL ESTATE
- PARKS & REC
- PLANNING DEPARTMENT

C = Clarification Requested

D = Disagree; adjustments not made

NOTES:

- (1) Comment Resolution Meeting is initiated when the Action Code is either "C" or "D". After meeting, the Action Code becomes Resolve Code "A" or "D".
- (2) Blackline Meeting before Mylars produced: "A" comments verified
- (3) Mylar: Comment Addressed & Verified, Consultant to incorporate in Mylar