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|---|----------------------|--|-----------------|-----------------------------------|--|--|--------------------|--------------|-------------------------|------|
|  | | San José-Santa Clara Regional Wastewater Facility | | | | Quality Review Form | | | | |
| File Name: | | QRF Log Backcheck By City (2/1/2020) | | | | Submittal Date: | | 10/9/2019 | | |
| Project Name: | | New Headworks and Headworks Improvements Project | | | | Reviewer/s: | | City/CIP/O&M | | |
| Document: | | New Headworks Project - 60% Design Drawings and Specs City Backcheck | | | | Project No.: | | 7477/7701 | | |
| | | | | | | Backcheck Date | | 2/1/2020 | | |
| INSTRUCTIONS: Critical issues may have a significant impact on rework, schedule, cost or risk and require immediate resolution. All comments need to be back-checked and approved by the reviewers. | | | | | | | | | | |
| | | | | | | | | | | |
| Reviewer | | | | | | Originator | | | Reviewer | |
| # | Reviewer | Critical Issue | Page Index | Reference Drawing, Specification, | Comments / Questions | Resolution / Response | Resolution | | Back-Checked & Approved | Cost |
| | | | | | | | Name | Date | | |
| Comment | CIP/City (2/12/2020) | - | - | - | Provide the following as part of the 90% submittal or during the 60%-90% phase - 1. MODOC memos as construction progresses (included as review comment) 2. Hydraulics (@90% and 100%) a. Replica Model Calibration TM- report on how the final calibration had been performed, describes existing conditions, HGL variations, etc. b. Replica Model Final TM with key model inputs/outputs for converting into an InfoWorks model c . Final Replica Model files 3. CFD (@90%) a. Final TMs for EBOS, screen channel, Grit Basin and pump intake CFD models (i.e. whatever Jacobs models) b. CFD software model files 4. Physical Modeling of the Pump Station (before 90%) a. Physical modeling report b. Physical model, unless agreed upon by the City (Amit) 5. 3D Model (@100%) a. Final 3D MicroStation and AutoCAD base model b. 3D pdfs of various facilities, if requested. 6. Draft and Final CMMS Integration Plan (Final Draft @90% and Final prior to functional testing) | | | | | |
| | | | | | | | | | | |
| Comment | CIP/City (2/12/2020) | - | - | - | There are comments and decision log items that Jacobs has deferred to the 90% phase. Jacobs to include all these from this QRF and from BlueBeam in the 90% QRF and provide information on whether or not the comments have been addressed to the City's satisfaction. | | | | | |
| Comment | CIP/City (2/12/2020) | - | - | - | 60% Design Review CAD comments to be distributed to Jacobs on 2/13/2020 and discussed during the 60%-90% phase | | | | | |
| Comment | CIP/City (2/12/2020) | | | | Include Limitorque as actuator manufacturer_At a minimum, all equipment should be chosen based on a best-value selection methodology. | | | | | |
| Comment | CIP/City (2/12/2020) | | | | Specify VFD make, model and vendor for the RSPS3 pumps | | | | | |
| 1 | Andy Chavez | | EF-112-14BLDG64 | Drawing | Architectural sheet A-401-14BLDG64 still shows 2x4 recessed luminaire symbols (see reflected ceiling plan legend). Coordinate light layout with architectural. | Will coordinate | Michaud, Pieterick | 10/15/2019 | Noted | |
| 2 | Andy Chavez | | EF-112-14BLDG64 | Drawing | Battery room and toilet room have 9'-0" gyp board ceiling but lighting plan indicates L2 fixtures mounted at 8'-0". Why not surface mount fixtures to gyp board ceiling? | Will double check light calcs and will move up to surface mount if adequate. | Michaud, Pieterick | 10/15/2019 | Noted | |
| 3 | Andy Chavez | | E-603-14BLDG64 | Drawing | Clarify which description applies to which panelboard (LP-19A,C - process or HVAC). | LP-19A is process, LP-19C is HVAC. Will revise to be clearer | Michaud | 10/15/2019 | Noted | |
| 4 | Andy Chavez | | E-650-08 | Drawing | Update existing fiber patch panel names in block diagram to match termination tags in schedule. | Will revise | Michaud, Foley | 10/15/2019 | Noted | |
| 5 | Andy Chavez | | E-660-14BLDG64 | Drawing | LP-19A circuit breaker for LP-19C indicated as 20A/3P but MCB shown as 90A in corresponding LP-19C panel schedule. | Panel LP-19C does not have a MCB, it is MLO. See E-662-14BLDG64. Will correct breaker size in LP-19A | Michaud | 10/15/2019 | Noted | |
| 6 | Andy Chavez | | E-660-14BLDG64 | Drawing | LP-19A circuit breaker for LP-19B indicated as 3P with varied amp ratings for each phase (LP-19B MCB rating shown as 40A in corresponding panel schedule). | Will correct LP-19A breaker amperage | Michaud | 10/15/2019 | Noted | |
| 7 | Andy Chavez | | E-660-14BLDG64 | Drawing | LP-19A circuit breaker for LP-19D indicated as 3P but also shows nutrient feed pump circuit on C-phase. Should circuit breaker feeding LP-19D be 2P? | Circuit breaker to LP-19D is 2P. Nutrient Feed pump removed from panelboard as it is powered from within the water panel. | Michaud | 10/15/2019 | Noted | |
| 8 | Andy Chavez | | E-661-14BLDG64 | Drawing | Update BP-19A panel name to BP-19 to match block diagram and plan drawing. | Corrected | Michaud | 10/15/2019 | Noted | |
| 9 | Andy Chavez | | E-661-14BLDG64 | Drawing | BP-19 panel schedule: Provide load values. | Added | Michaud | 10/15/2019 | Noted | |
| 10 | Andy Chavez | | E-660-12HW2 | Drawing | Provide revised load calculation for S17-UPS. | Existing loads are not known, City to provide in order to update schedule. It is assumed original panel design accounted for spare breakers and future loads. | Michaud | 10/15/2019 | Noted | |
| 11 | Andy Chavez | | E-660-12HW2 | Drawing | Provide revised load calculation for LP-2. | Discussed on 10/21 with City. City to provide updated panel schedule if a schedule is desired to be included in the document set. It is assumed original panel design accounted for spare breakers and future loads. | Michaud, Maestri | 10/31/2019 | Noted | |
| 12 | Andy Chavez | | E-601-14BLDG64 | Drawing | No feeder protection relay or CTs indicated for tie breaker. | No reason for additional protection at the tie with management relays at the mains and a bus differential relay. Nelso confirmed on 10/21 it is not required. | Michaud, Maestri | 10/31/2019 | Noted | |
| 13 | Andy Chavez | | E-601-14BLDG64 | Drawing | Show PT connections for feeder relays or update KN 3 to clarify this. | The feeder management relay is not handling voltage monitoring. Keynote 3 remains as is since it applies to the power monitors. | Michaud | 10/15/2019 | Noted | |
| 14 | Andy Chavez | | E-601-14BLDG64 | Drawing | 30% comment from Nelso Petroni indicated to keep CTs at 600:5 for spare breakers. | Will revise | Michaud | 10/15/2019 | Noted | |
| 15 | Andy Chavez | | E-107-08 | Drawing | Callouts for KN 1,2 are missing in plan view. It appears this scope was moved to Civil demolition plans (CX-100-05 series). Delete sheet keynotes. | Will add keynote callouts to drawing as they direct to the CX drawings. | Michaud | 10/15/2019 | Noted | |
| 16 | Andy Chavez | | E-652-14BLDG64 | Drawing | PBP-19 from DC system schedule not found on block diagram (P14BP-19?). | PBP-19 is correct, will revise cable block diagram to reflect. | Michaud | 10/15/2019 | Noted | |
| 17 | Andy Chavez | | E-103-08 | Drawing | Clarify spare conduits to be utilized in KN 3. | Spare conduits were determined to be present via photos and HW2 record drawings, based on photos they were not labeled. | Michaud | 10/15/2019 | Noted | |



San José-Santa Clara

Regional Wastewater Facility

File Name:

Project Name:

Document:

QRF Log Backcheck By City (2/1/2020)

New Headworks and Headworks Improvements Project

New Headworks Project - 60% Design Drawings and Specs City Backcheck

Submittal Date:

Reviewer/s:

Project No.:

10/9/2019

City/CIP/O&M

7477/7701

Backcheck Date

2/1/2020

INSTRUCTIONS:

Critical issues may have a significant impact on rework, schedule, cost or risk and require immediate resolution. All comments need to be back-checked and approved by the reviewers.

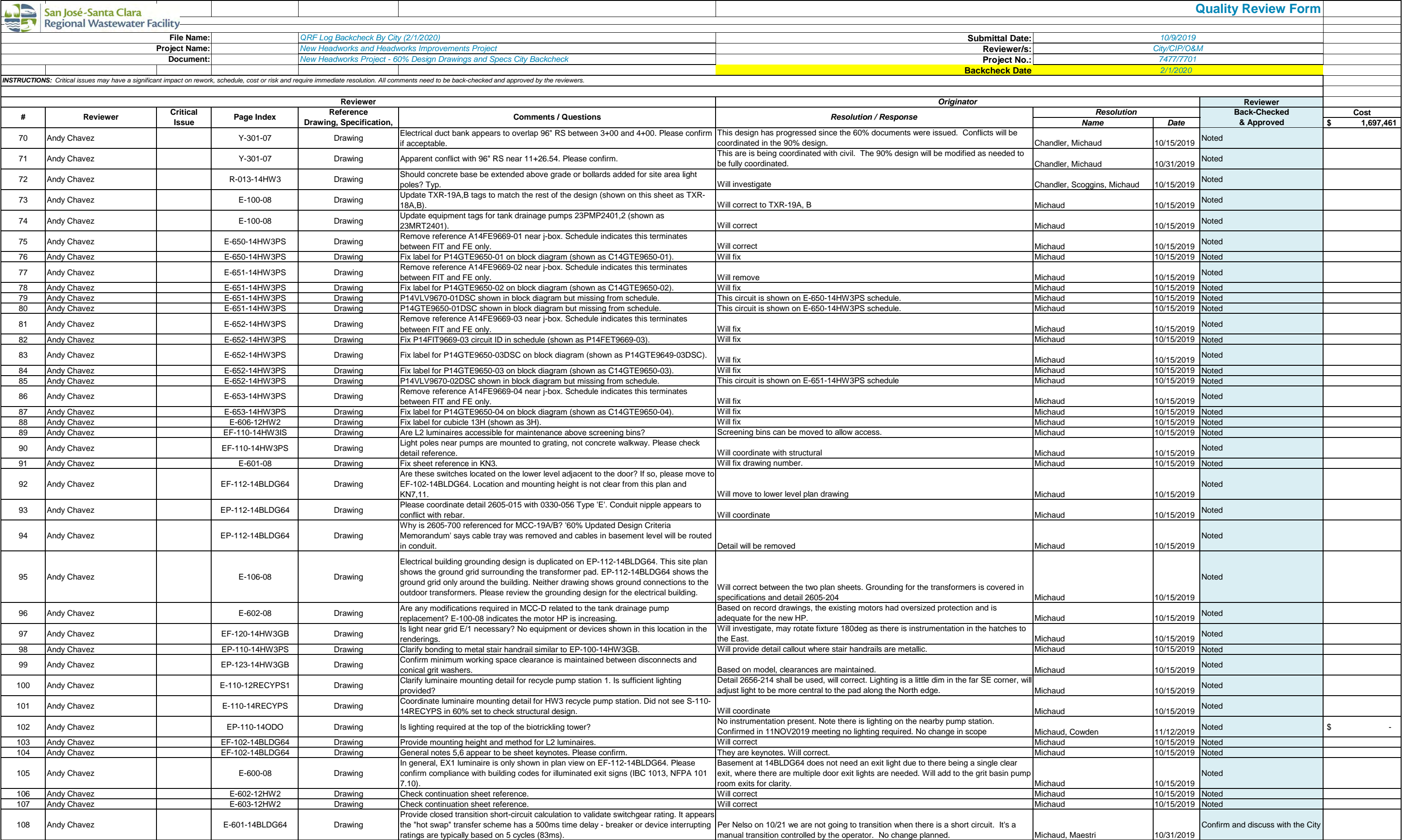
| # | Reviewer | Critical Issue | Page Index | Reviewer Reference Drawing, Specification, | Comments / Questions | Originator Resolution / Response | Resolution | | Reviewer Back-Checked & Approved | Cost \$ |
|----|-------------|----------------|-----------------|--|---|---|--------------------|------------|----------------------------------|-----------|
| | | | | | | | Name | Date | | |
| 18 | Andy Chavez | | E-652-14BLDG64 | Drawing | PMCC-5 from power circuit schedule not referenced on power distribution block diagram. | Will add near keynote 3 on diagram | Michaud | 10/15/2019 | Noted | 1,697,461 |
| 19 | Andy Chavez | | E-652-14BLDG64 | Drawing | 3 phase/neutral conductors for 120VAC circuits in miscellaneous systems power circuit schedule? | Will correct to 2#12, 1#12G | Michaud | 10/15/2019 | Noted | |
| 20 | Andy Chavez | | E-709-08 | Drawing | Why is the lighting control diagram sheet titled "ELECTRICAL MOTOR CONTROL DIAGRAMS"? | Will discuss changing Motor Control Diagrams to Control Diagrams to better encompass lighting, motors, and MV relays | Michaud | 10/15/2019 | Noted | |
| 21 | Andy Chavez | | E-650-08 | Drawing | Update data circuit schedule To termination for circuit ID D14NET0112 (should be 14NET0112). | Will correct in schedule | Michaud | 10/15/2019 | Noted | |
| 22 | Andy Chavez | | E-651-14HW3GB | Drawing | Fix label for C14GSFR9603-01DSC near disconnect on block diagram. | Will fix | Michaud | 10/15/2019 | Noted | |
| 23 | Andy Chavez | | E-651-14HW3GB | Drawing | Fix label for C14CS9603-01 near junction box on block diagram (currently shown as C14GSFR9603-01). | Will fix | Michaud | 10/15/2019 | Noted | |
| 24 | Andy Chavez | | E-650-14BLDG64 | Drawing | Where are P14SP1,2,3 on the block diagram? | These are the sump pumps for the manholes and are currently place holders in the duct bank schedule and circuit schedule. Will be included and fully designed in 90%. | Michaud | 10/15/2019 | Noted | |
| 25 | Andy Chavez | | E-650-14BLDG64 | Drawing | Update C14FAN9807-01DSC to P14FAN9807-01DSC in block diagram. | Will fix | Michaud | 10/15/2019 | Noted | |
| 26 | Andy Chavez | | E-650-14BLDG64 | Drawing | Extend 14ZS9840-01 line to 14DCU64 in block diagram. | Will fix | Michaud | 10/15/2019 | Noted | |
| 27 | Andy Chavez | | E-650-14BLDG64 | Drawing | Revise block diagram P14WH-01 tag to match schedule. | will fix | Michaud | 10/15/2019 | Noted | |
| 28 | Andy Chavez | | E-650-14BLDG64 | Drawing | Where are C14SP1,2,3 on the block diagram? | These are the sump pumps for the manholes and are currently place holders in the duct bank schedule and circuit schedule. Will be included and fully designed in 90%. | Michaud | 10/15/2019 | Noted | |
| 29 | Andy Chavez | | E-652-14BLDG64 | Drawing | 208Y/277V shown on block diagram for LP-19B and UPS-19. Check operating voltages in schedule and block diagram. | Will correct. 277V should be 120V. | Michaud | 10/15/2019 | Noted | |
| 30 | Andy Chavez | | E-650-14ODO | Drawing | HW3 Odor Control block diagram and schedule: update MCC-19 to MCC-19A. | Will fix. | Michaud | 10/15/2019 | Noted | |
| 31 | Andy Chavez | | E-650-14ODO | Drawing | Update circuit ID CAIT9706-01DSC to C14AIT9706-01DSC in HW3 Odor Control schedule. | Will fix | Michaud | 10/15/2019 | Noted | |
| 32 | Andy Chavez | | E-650-14ODO | Drawing | Add A14AE9706-01 from block diagram to circuit schedule. | Will add | Michaud | 10/15/2019 | Noted | |
| 33 | Andy Chavez | | E-650-14BLDG64 | Drawing | Notes are labeled as General Notes but appear to be Sheet Keynotes. | Will Fix | Michaud | 10/15/2019 | Noted | |
| 34 | Andy Chavez | | E-650-14BLDG64 | Drawing | Where is KN1 referenced on this sheet? | Will remove keynote 1 | Michaud | 10/15/2019 | Noted | |
| 35 | Andy Chavez | | E-110-14RECYP5 | Drawing | Add C14CS9725-01 to conduit between pump 2,3 junction boxes on block diagram. | Will add | Michaud | 10/15/2019 | Noted | |
| 36 | Andy Chavez | | E-650-14HW3GB | Drawing | Update C14LS9739-02 to C14CS9739-02 in the HW3 Grit Room Sump Pump circuit schedule. | Will fix | Michaud | 10/15/2019 | Noted | |
| 37 | Andy Chavez | | E-651-14HW3GB | Drawing | Fix label for P14PMP9601-02DSC on block diagram (currently shown as P14GCL9601-02DSC). | Will fix | Michaud | 10/15/2019 | Noted | |
| 38 | Andy Chavez | | E-651-14HW3GB | Drawing | Remove DSC from C14CS9603-01 circuit ID in schedule. | Fixed | Michaud | 10/15/2019 | Noted | |
| 39 | Andy Chavez | | E-651-14HW3GB | Drawing | Remove DSC from C14CS9601-02 circuit ID in schedule. | Will fix | Michaud | 10/15/2019 | Noted | |
| 40 | Andy Chavez | | E-651-14HW3GB | Drawing | Remove DSC from C14CS9605-02 circuit ID in schedule. | Will fix | Michaud | 10/15/2019 | Noted | |
| 41 | Andy Chavez | | E-651-14HW3GB | Drawing | Fix label for C14SSL9603-02 on block diagram near junction box (shown as C14SSL9602). | Will fix | Michaud | 10/15/2019 | Noted | |
| 42 | Andy Chavez | | E-652-14HW3GB | Drawing | Fix labels for C14GSFR9603-04DSC and C14CS9603-04 on block diagram. | Will fix | Michaud | 10/15/2019 | Noted | |
| 43 | Andy Chavez | | E-653-14HW3GB | Drawing | Fix label for P14VLV9604-05 on block diagram (shown as C14VLV9604-05). | Will fix | Michaud | 10/15/2019 | Noted | |
| 44 | Andy Chavez | | E-653-14HW3GB | Drawing | Fix label for P14VLV9604-06 on block diagram (shown as C14VLV9604-06). | Will fix | Michaud | 10/15/2019 | Noted | |
| 45 | Andy Chavez | | E-651-08 | Drawing | Fix P12VLV9720-00DSC circuit ID on schedule (shown as P12VLV9721-00DSC). | Will fix | Michaud | 10/15/2019 | Noted | |
| 46 | Andy Chavez | | E-651-08 | Drawing | Fix C12VLV9721-00 and C12VLV9721-00DSC labels on schedule (shown as C12VLV9721-01 and C12VLV9721-01DSC). | Will fix | Michaud | 10/15/2019 | Noted | |
| 47 | Andy Chavez | | E-651-08 | Drawing | Fix PS-19A,B circuit IDs in schedule to match block diagram. | Will fix | Michaud | 10/15/2019 | Noted | |
| 48 | Andy Chavez | | EP-120-1P | Drawing | Fix A11SMPL9752-01 circuit ID in schedule (shown as A11SMPL9725-01). | Will fix | Michaud | 10/15/2019 | Noted | |
| 49 | Andy Chavez | | E-110-12RECYP51 | Drawing | Change AFD to VFD in power circuit schedule terminations for 12AFD9705-04. | Will fix | Michaud | 10/15/2019 | Noted | |
| 50 | Andy Chavez | | E-110-12RECYP51 | Drawing | Change AFD to VFD in power circuit schedule terminations for 12AFD9705-03. | Will fix | Michaud | 10/15/2019 | Noted | |
| 51 | Andy Chavez | | E-650-14HW3IS | Drawing | Split MCC-19 into MCC-19A and MCC-19B in the block diagram to match the termination labels in the schedules. | Will fix | Michaud | 10/15/2019 | Noted | |
| 52 | Andy Chavez | | E-602-14BLDG64 | Drawing | Check continuation sheet reference. | Will fix | Michaud | 10/15/2019 | Noted | |
| 53 | Andy Chavez | | E-603-14BLDG64 | Drawing | Check continuation sheet reference. | Will fix | Michaud | 10/15/2019 | Noted | |
| 54 | Andy Chavez | | E-653-14HW3PS | Drawing | Fix circuit ID D14MMS9660-04 in schedule (shown as D14MMS9660-03). | Will fix | Michaud | 10/15/2019 | Noted | |
| 55 | Andy Chavez | | E-653-14HW3PS | Drawing | P14GTE9650-03DSC shown in block diagram but missing from schedule. | See E-652-14HW3PS for circuit. | Michaud | 10/15/2019 | Noted | |
| 56 | Andy Chavez | | E-653-14HW3PS | Drawing | Fix 14VFD9655-04 label in block diagram (shown as 14VFD9655-01). | Will fix | Michaud | 10/15/2019 | Noted | |
| 57 | Andy Chavez | | E-652-14HW3PS | Drawing | Fix 14VFD9655-03 label in block diagram (shown as 14VFD9655-01). | Will fix | Michaud | 10/15/2019 | Noted | |
| 58 | Andy Chavez | | E-651-14HW3PS | Drawing | Fix 14VFD9655-02 label in block diagram (shown as 14VFD9655-01). | Will fix | Michaud | 10/15/2019 | Noted | |
| 59 | Andy Chavez | | E-654-14HW3PS | Drawing | Fix 14VFD9655-05 label in block diagram (shown as 14VFD9655-01). | Will fix | Michaud | 10/15/2019 | Noted | |
| 60 | Andy Chavez | | E-654-14HW3PS | Drawing | Remove reference A14FE9669-05 near j-box. Schedule indicates this terminates between FIT and FE only. | Will remove | Michaud | 10/15/2019 | Noted | |
| 61 | Andy Chavez | | E-654-14HW3PS | Drawing | Fix label for P14GTE9650-05 on block diagram (shown as C14GTE9650-05). | Will fix | Michaud | 10/15/2019 | Noted | |
| 62 | Andy Chavez | | E-654-14HW3PS | Drawing | P14VLV9670-04DSC shown in block diagram but missing from schedule. | Circuit in E-653-14HWPS schedule. | Michaud | 10/15/2019 | Noted | |
| 63 | Andy Chavez | | E-651-08 | Drawing | Valves tags do not match those shown on E-605-12HW2. Please confirm. | Will coordinate | Michaud | 10/15/2019 | Noted | |
| 64 | Andy Chavez | | E-602-14BLDG64 | Drawing | Check MCP size for 25 HP motors. 34 FLA x 125% = 43A (45A MCP). | 45A availability will depend on manufacturer. 50A is much more common, but a 45A may be used. | Michaud | 10/15/2019 | Noted | |
| 65 | Andy Chavez | | E-603-14BLDG64 | Drawing | Check MCP size for 25 HP motors. 34 FLA x 125% = 43A (45A MCP). | 45A availability will depend on manufacturer. 50A is much more common, but a 45A may be used. | Michaud | 10/15/2019 | Noted | |
| 66 | Andy Chavez | | E-603-12HW2 | Drawing | N-037-09 indicates Recycle PS pumps are 25 HP. Please confirm and adjust electrical design accordingly. | Will coordinate | Michaud, Foley | 10/15/2019 | Noted | |
| 67 | Andy Chavez | | E-602-12HW2 | Drawing | N-037-09 indicates Recycle PS pumps are 25 HP. Please confirm and adjust electrical design accordingly. | Will coordinate | Michaud, Foley | 10/15/2019 | Noted | |
| 68 | Andy Chavez | | E-603-14BLDG64 | Drawing | G-052-01 shows 14FAN9807-01 as 1HP. Please confirm motor rating with mechanical and update electrical design accordingly. | Will coordiante | Michaud, Sackinger | 10/15/2019 | Noted | |
| 69 | Andy Chavez | | E-652-14BLDG64 | Drawing | Operating voltage for PLP-19A,B,C does not match block diagram. Please update schedule. | Will update | Michaud | 10/15/2019 | Noted | |

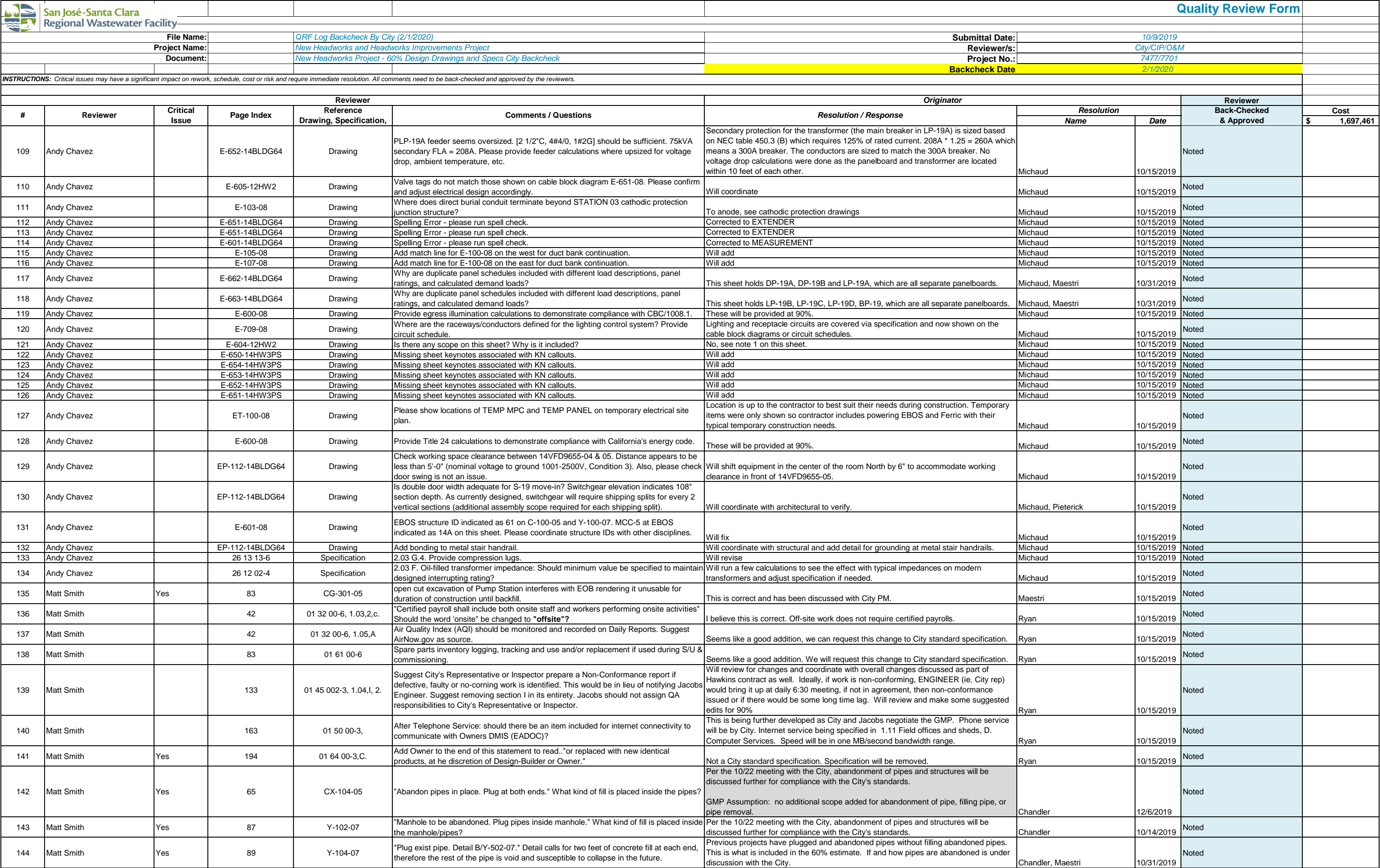
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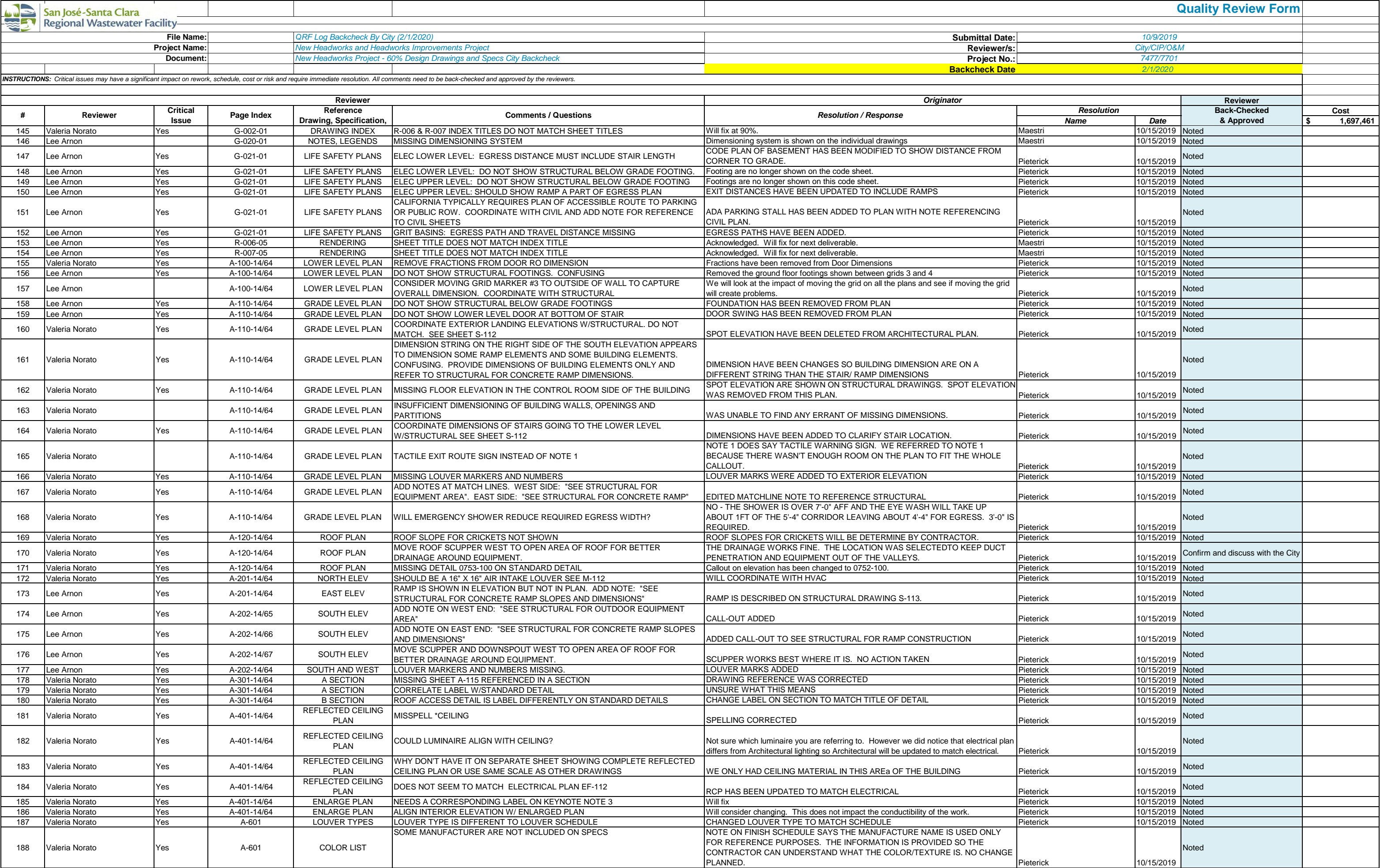
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Quality Review Form

INSTRUCTIONS: Critical issues may have a significant impact on rework, schedule, cost or risk and require immediate resolution. All comments need to be back-checked and approved by the reviewers.


| Reviewer | | | | | | Originator | | | | Reviewer | |
|----------|----------------|----------------|----------------|-----------------------------------|---|---|-----------------|------------|---|----------|--|
| # | Reviewer | Critical Issue | Page Index | Reference Drawing, Specification, | Comments / Questions | Resolution / Response | Resolution | | Back-Checked & Approved | Cost | |
| | | | | | | | Name | Date | | | |
| 189 | Valeria Norato | Yes | A-601 | FRAME TYPES | MISSING FRAME TYPE F-4 | THE FRAME TYPE NOTED IN THE SCHEDULE WAS IN ERROR. F-4 IN THE SCHEDULE HAS BEEN CHANGED TO F-2. | Pieterick | 10/15/2019 | Noted | | |
| 190 | Valeria Norato | Yes | A-601 | DOOR TYPES | DOOR TYPE G IS NOT USED ACCORDING TO THE SCHEDULE | 103B SHOULD HAVE BEEN A G TYPE DOOR. THE SCHEDULE HAS BEEN CORRECTED. | Pieterick | 10/15/2019 | Noted | | |
| 191 | Lee Arnon | Yes | S-102-14/64 | STRUCTURAL LOWER LEVEL | CONSIDER MOVING GRID MARKER #3 TO OUTSIDE OF WALL TO CAPTURE OVERALL DIMENSION. | Will review | Scoggins | 10/15/2019 | Noted | | |
| 192 | Lee Arnon | Yes | S-112-14/64 | STRUCTURAL GROUND LEVEVL | COORDINATE LANDING ELEVATIONS AND STAIR DIMENSIONS WITH ARCHITECTURAL | Will be coordinated | Scoggins | 10/15/2019 | Noted | | |
| 193 | Lee Arnon | Yes | A-601-14/64 | SCHEDULES | WHAT DISCIPLINE IS SHOWING ROOM NUMBERS? | ANY DISCIPLINE CAN SHOW ROOM NUMBER BUT THE ARCITECTURAL DISCIPLINE IS REQUIRED TO SHOW ROOM NUMBERS. | Pieterick | 10/15/2019 | Noted | | |
| 194 | Lee Arnon | Yes | A-601-14/64 | SCHEDULES | ARE THERE ADDITIONAL FINISHES ON THE LOWER LEVELS? | THE LOWER LEVEL OF THE ELECTRICAL BUILDING AND THE GRIT BUILDING HAVE PAINTED WALLS AND CEILINGS. | Pieterick | 10/15/2019 | Noted | | |
| 195 | Lee Arnon | Yes | A-601-14/64 | SCHEDULES | WHAT DISCIPLINE IS SHOWING THE DOORS AND DOOR MARKER NUMBERS? | ONLY ARCHITECTURAL | Pieterick | 10/15/2019 | Noted | | |
| 196 | Lee Arnon | Yes | A-601-14/64 | SCHEDULES | ARE THERE ADDITIONAL DOORS ON THE LOWER LEVELS? | THERE IS ONLY ONE DOOR ON THE LOWER LEVEL | Pieterick | 10/15/2019 | Noted | | |
| 197 | Valeria Norato | Yes | 087100-2 | BUTT HINGES | SECTION 2.03 H2 HINGE NOT USED IN PROJECT? | H2 IS AN ELECTRIFIED HINGE. WE MIGHT BE USING IT DOOR 103A IF THE PANIC BAR IS EXPECTED TO RETRACT. WILL CONFIRM IN 90% DESIGN IF IT WILL BE USED. | Pieterick | 10/15/2019 | Noted | | |
| 198 | Valeria Norato | Yes | 088000-0 | GLAZING | GLAZING- WHERE IS IT USE? | TWO DOORS HAVE GLASS. ONE IN THE ELECTRICAL BUILDING AND ONE IN THE GRIT BUILDING. WE COULD DELETE ALL BUT TWO OPTIONS IN THE SPEC. (TINTED INSULATING GLASS AND TEMPERED GLASS.) | Pieterick | 10/15/2019 | Noted | | |
| 199 | Valeria Norato | Yes | 099000-5 | MANUFACTURERS | MANUFACTURERS ON SCHEDULE ARE DIFERENT | THE MANUFACTURER USED IN THE SCHEDULE IS REFERENCED IN THE SPEC. WE ONLY REFERENCE THE ONE MFR IN THE SCHEDULE SO WE CAN CLEARLY IDENTY THE COLOR WE EXPECT TO SEE. | Pieterick | 10/15/2019 | Noted | | |
| 200 | Lee Arnon | | 9 | | MISSING CONCRETE CEILING | A-601 14 BLDG64 AND a-601 14HW3GB SHOW PAINTED CONCRETE CEILINGS. | Pieterick | 10/15/2019 | Noted | | |
| 201 | Ed Fernbach | Yes | 27 | | EBOS Effluent Gates - The plan here is to provide a new motorized slide gate on the 120" to HW2 and only reuse the stop plate on the entrance to HW3. However, in the 30% it was tested that HW2 provides backup to al the needs to shut down HW3. It's my understanding that O&M is not OK with this approach. In my other comments, I ask for clarification on how stop plates will be used at HW3. This issue of isolation and how HW2 provides "backup" when all of HW# needs to be shut down for gate and screen repair needs to be clarified. | 1. Whole HW3 shutdown: a) If major portions of HW3 need to be taken offline downstream of screens, then the screen influent isolation gates can be closed (3 gates). Major portions would be common wetwell of RS PS, or common influent channel of Grit, or common effluent channel of Grit, or 120" RS pipe between Screens and RS PS. b) If the 108" RS between EBOS and the Screen Channel enquires isolation, then a stop plate would be installed over the entrance of the 108" RS pipe. 2. Partial or Whole HW3 shutdown: a) If the screen influent isolation gates need repair, individually or collectively, then a stop plate can be installed in the slot on the upstream side of the gate. During Whole HW3 shutdown, HW2 is the facility treating the water. Per discussions on 10/22 and 10/30 slots (or guides) will be provided in order to isolate individual gates for maintenance. Fabricated steel stop plate will be provided at Screens (2), Raw Sewage Pump Station (2), and Grit Facility (1). Ed suggested storing Screen stop plates between channels; Ed suggested storing Grit Facility stop plate in-situ. The storage locations will be finalized during the 90% design. The height of the screen gate will be reviewed and will evaluate if it is possible to have a deep concrete "beam" extend across teh channel and down to reduce the overall gate height. GMP Assumption: Include scope change. | Youker, Maestri | 12/6/2019 | Agree With Response. City needs to develop a protocol for channel entry behind these big gates since they can be over topped. Jacobs to provide City with draft and final Control Strategy memorandums prior to finalizing DCS setpoints regarding flow splits and overtopping any channels/gates/slots. | | |
| 202 | Ed Fernbach | Yes | 27, 29, 93, 94 | | The flow split for the design model is not shown on the flow diagram. In the 30% comments, we were told that the hydraulic profile is based on only 35% of the peak flow going thru the West Meter Vault (also called North loop on some drawings). Now that we are rehabilitating both the West and East Meter Vaults, there needs to be a discussion of what are the future design flows thru both those flow paths. The west meter vault has two meters. At a range from 15 to 100 mgd, is the 72-inch the correct size? Is the 54-inch even needed or should that line be a meter bypass? Is the project providing spool pieces for meter repair? Where are they stored? Are we providing stop plates for meter removal? I suggest a workshop on flow metering considering three is a move to eliminate the five pump discharge meters. There is a scenario where the East and west meters are eliminated com[lately, HL from CA Structure to primaries reduced and the primary inlets are used for flow control. Please think out 10-20 years on how this plant will be needed to operate. | Per 10/22 and 10/30 meetings, no change will be made to this design. During the 30% we were directed to replace the magmeters and FCVs in kind; In addition, we were directed to add a FCV on the one pipe at East Meter Vault that does not currently have a isolation of FCV. It has been confirmed that the accuracy of the meters at 35MGD is 0.4%. Ed believes that the valves downstream and fitting upstream are creating accuracy issues for the meters. Dan to talk to Tim Lewis about the issue. Jacobs recommendation is to not eliminate the 5 RS flow meters at HW3. | Youker/Maestri | 10/31/2019 | Noted. Jacobs to review peak flow assumptions going to the West Primaries with the City during the 60%-90% design phase. | | |
| 203 | Ed Fernbach | Yes | 27 | | Please put the design flows on all the PFD | These values are shown on the profile. To avoid redundancy PFD will not show these values. | White | 10/15/2019 | Noted | | |
| 204 | Ed Fernbach | Yes | 27, 93, 94 | | The schematic around the East and West meters shows the reducers and increasers in the wrong locations. Be specific as to what is in the yard and in the structure. | Will update. | White | 10/15/2019 | Noted | | |



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| # | Reviewer | Critical Issue | Page Index | Reference Drawing, Specification, | Comments / Questions | Resolution / Response | Resolution | | Back-Checked & Approved | Cost | |
| | | | | | | | Name | Date | | | |
| 205 | Ed Fernbach | Yes | 29 | | I have many questions on the profile and many may be because I have not been involved in the model. Starting from EBOS and working to the East Primary Sed Tanks: 1) Should we show the assume level in EBOS during a flushing cycle? 2) The maximum design level in the approach channel to the screens is EI 11.83. It should be shown and reflected in the slide gate and screen design. 3) Weir gate OF to EOB is still shown at 10.27. It's my understanding from the 30% comments that this weir is sealed off. 4) I seen a control schematic that says RSPS will be controlled by level on EBOS. This seems like a bad idea given the screens will have significant impact on the level in the wetwell. We needs to have a discussion on this approach if it is true. 5) Would like to have seen the range of operating levels for there RSP3 wetwell. 6) The profile for the RSPS is several feet higher until the pumps achieve successful siphon) A segment was made on 10/3/19 that Jacobs is responsible for the hydraulic profile only to the CA structure. I must believe that this is ion error. 7) The headloss across the headcell influent is shown constant for all flows - I don't believe that is true. 8) The East and West Meter boxes are not shown | 1. Influent flows will be over a range throughout a drawdown. Showing a single point during that process will likely have little value. 2. Noted. 3. The existing weir gates are not going to be modified and will remain as shown. 4. Noted. 5. Will consider adding. 6. the HGL should be higher; will verify and correct 7. Will verify. 8. Flows through the metering vaults are within pipes below HGL. I will consider adding a note to show flow split between the vaults. Will add a minimum level for the RSPS3, but no "flushing" gradeline. | White | 10/15/2019 | Noted | | |
| 206 | Ed Fernbach | | 30 | | Jacobs maintains that the process and equipment design criteria do not go on this sheet and are found in the equipment specs. I believe that the design criteria belong here. As an example, the headcell criteria don't match what is in the specs. Design heads for all pumps are not shown. Grit pump flows are missing. If we are accommodating 30 yd bins, they will hold more than 10 tons and the winch needs to be upsized. EOB return at 6MGD is not enough to get the basin emptied per BAAQMD Reqmts. Expected mass rates for screenings and grit are not shown. | This sheet was discussed with City PM on 10/21 The firms involved take a different approach to what is included on the design criteria sheets. This sheet does not impact the conductivity of the deliverable. Jacobs is happy to include additional information on this page if desired by the City. It is requested the City provide a markup showing all criteria they want included. Jacobs will update at the 90% if this information is provided at least 6 weeks before the 90% deliverable. 1. Grit Basin removal does match the specification. 2. Design heads for pumps are not normally put on Design Criteria sheet. 3. Grit Pump flow is included ((400gpm) 4. With the rearranged Grit System, the grit bins do not have winches. they have been deleted fom scope when Grit Washers located above the dumpsters. 5. Revising the EOB return pumps has never been part of the project. | Youker, Maestri | 10/31/2019 | Noted | | |
| 207 | Ed Fernbach | | 34 | | Containment area around septic dump is not shown | Containment will be included in renderings for final design. Curbs and containment at south end are called out on 60% plans | Chandler | 10/14/2019 | Noted | | |
| 208 | Ed Fernbach | | 35 | | See comments on later mechanical sheets regarding odor control, deck openings for maintenance of gates and screens, platforms control station location and slide plates. | ok. | Maestri | 10/15/2019 | Noted | | |
| 209 | Ed Fernbach | | 37 | | Doors into the area under the grit feed channel and grit pump room. I do not understand why these doors are not at grade (EI 9+/-). If the plant is flooding, wastewater will come out of all the floor drains and the rooms will flood even if the doors are up high. | Doors located at el 13 to be above flood stage. There is no connection between exterior of room and exterior of room below EI 12. Only connections through stairs/doors and the HVAC penetration at EI 20. Grit pump room has hub drains and trench drain that are routed to the sump. Plant staff have asked that the dumpster drains are routed to the recycle pump station, not connected to the basement. The drains from the headcells The pumps are being changed to variable speed so they don't run out on their curve. Walked through how to drain a headcell (this is another review comment and response). Clarified that the 16" goes to the screens. The 6" to the plant drain pump station collects the grit pumps and floor drains and is routed to the recycle pump station. In order to get rid of those sump pumps we would have to lower the slab of the recycle pump station. Agreed that the current design is better but the pumps need to be robust to pump the grit and washdown. | Youker, Maestri | 10/31/2019 | Noted | | |
| 210 | Ed Fernbach | | 39 | | I would have liked to see a key to the pipe colors used. | acknowledged. | Maestri | 10/15/2019 | Noted | | |
| 211 | Ed Fernbach | | 40 | | Replace and upsize the existing FM from RSPS2 to the CA structure. Tie in with the new 96. Use the same right-of-way since it is known. This idea may have been considered earlier and I just missed it. | The exact details of this may not be the same, but we did evaluate a form of this concept. We evaluated routing HW 3 north and tying in with the RSPS 2 discharge, and utilizing the existing 96" RS pipe currently installed to convey total flow into California Structure. We did evaluate replacing and upsizing the existing 96". In the end, City did not want a single pipe conveying all of the flow into the California Structure.. | Youker, Maestri | 10/10/2019 | Noted | | |
| 212 | Ed Fernbach | | 43 | | The grit piping is overly complicated with more bends than needed and no access flushing connections. See comments on mechanical sheets | Will review comments on mechanical sheets. | Youker | 10/10/2019 | Noted | | |
| 213 | Ed Fernbach | | 45 | | Odor Control ducting - I confused by the air flow path. Shouldn't air be drawn from the space in front of the screens and influent gates? Ducting off the top of the screen housing is needed to prevent corrosion in the top shaft and bearing area. | Current approach is that air is extracted just downstream of the screens from the channels. The screen enclosures will likely be leaky such that air will be drawn into the enclosure via negative pressure maintained in the channels. This fresh air drawn into the enclosures will limit corrosion potential within the enclosure itself. If we extract directly from the enclosure then corrosion potential will be increased within the enclosure since higher concentration foul air would be drawn into the enclosure from channels below. Extracting air downstream of the screens as opposed to the inlet side is considered favorable since inlet gates will likely be leaky and therefore fresh air will naturally be drawn into the channels from the inlet side. This will ensure sufficient scavenging of odors occurs within the channels. | Cowden | 10/13/19 | Noted | | |


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|  | | San José-Santa Clara Regional Wastewater Facility | | | | Quality Review Form | | | | | |
| File Name: | | QRF Log Backcheck By City (2/1/2020) | | | | Submittal Date: | | 10/9/2019 | | | |
| Project Name: | | New Headworks and Headworks Improvements Project | | | | Reviewer/s: | | City/CIP/O&M | | | |
| Document: | | New Headworks Project - 60% Design Drawings and Specs City Backcheck | | | | Project No.: | | 7477/7701 | | | |
| | | | | | | Backcheck Date | | 2/1/2020 | | | |
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| # | Reviewer | Critical Issue | Page Index | Reference Drawing, Specification, | Comments / Questions | Resolution / Response | | Resolution | | Back-Checked & Approved | Cost |
| | | | | | | | | Name | Date | | \$ 1,697,461 |
| 214 | Ed Fernbach | | 46 | | There are spaces shown for 11 slide plates on this sheet. We need to have a discussion on slide plates, how they will be used, crane access or pick points, gate storage, etc. | Per 12NOV2019 meeting scope will iinclude slide guides for isolation and 2 slide plates to allow a single pump to be isolated at a given time. | | | | Noted | \$ 33,000 |
| 215 | Ed Fernbach | | 47 | | Looks like the FITs for the mag meters are in a location that can flood | FITS will be mounted above design flood elevation on a stanchion. | | Crook | 12/6/2019 | Noted | |
| 216 | Ed Fernbach | | 49 | | I would have centered the grit loading are on the west wall to shorten and simplify grit piping from tanks 1 & 2. | Agreed to move the grit washer "pod" and dumpsters to the south. Presumably to reduce grit pump discharge piping. | | | | Noted | \$ 15,000 |
| | | | | | | GMP Assumption: Assume re-alignment is scope tradeoff. Include scope adjustment for 45 bends in lieu of 90 bends. | | Youker, Maestri | 12/6/2019 | | |
| 217 | Ed Fernbach | | 50 | | Access hatches to the headcells? | Portions of the removable cover will include 2x2 observation hatches for spray down. Have assumed 2 openings on opposite side so light can get down into basin. Details to be included next phase. | | Youker | 10/10/2019 | Noted | |
| 218 | Ed Fernbach | | 52 | | The ladder running up the side of the tower is not legal | Per 10/22 meeting a cage will be added. A caged ladder is optional but not mandatory. However, a ladder provided with safety rail for fall protection is required. When accessing the ladder, one will need to put on a harness and attach to the safety rail. Spec will be modified to ensure the fall protection feature is included. | | | | Noted | \$ 10,000 |
| | | | | | | GMP Assumption: Include safety ladder, no cage. | | Cowden/Maestri | 12/6/2019 | | |
| 219 | Ed Fernbach | | 53 | | Electrical Bldg. needs easy roof access with so much equipment up there. | The access to the roof is based on feedback from the City staff previously. With that said during 10/22 meeting it was decided to remove the ladder from inside the building and add a ships ladder on the exterior near the transformers. Will likely need steps inside the parapit as well as up to it. | | | | Noted | \$ 42,000 |
| | | | | | | GMP Assumption: Include ships ladder. | | Maestri | 12/6/2019 | | |
| 220 | Ed Fernbach | | 84 | | Septage dump station drain pipe looks to be flat - needs a significant slope | Will update for 90%. Detail is drawn incorrectly - pipe designed with 1% slope to EBOS. | | Chandler | 10/14/2019 | Noted | |
| 221 | Ed Fernbach | | 81 | | Containment curb needs to be above EL 11 | Top of containment curb noted as elev. 11.25 on referenced drawing. | | Chandler | 10/14/2019 | Noted | |
| 222 | Ed Fernbach | | 80 | | Crane Pads needed on levee road | As discussed on 10/22 we will investigate further at 90% but it is anticipated that crane operators will bring in their own pads to be placed on the asphalt. No change anticipated | | Chandler/Maestri | 10/31/2019 | Noted | |
| 223 | Ed Fernbach | | 86 | | See comment No. 11 | See comment No. 11 response | | Michaud | 10/15/2019 | Noted | |
| 224 | Ed Fernbach | | 91 | | Cannot tell where the 16-inch grot overflow line goes to. | 16" GR/OF routes to SE corner of Screens, will add additional leader after pipe crosses FA duct. | | Chandler | 10/14/2019 | Noted | |
| 225 | Ed Fernbach | | 91 | | Consider how the headcells will be drained - pumps will not get it all the way down. | Intend to use grit slurry pumps to draw down as low as possible (approximate 7'-10'). Then open drain valve to drain by gravity to HW3 Recycle pump station. The level in Grit Basin will drop until break suction (approximate 1'-2' at bottom of conical tray. Grit Basin will need to be filled to above Grit Pump centerline to "re-prime" the drain pipe. The basin may not draw down to dry condition, but that is only required is if trays are removed. | | | | Noted | |
| | | | | | | | | Chandler/Youker | 10/14/2019 | | |
| 226 | Ed Fernbach | | 93 & 94 | | 1) Line sizes outside of the structures appear to be wrong. 2) Tees and reducers not shown. 3)currently isolated with slide plates. Approach configuration seems poor for accurate metering. See comment on the hydraulic profile. Either fix the meters to modern standards and accuracy or take them out completely if the RSPS3 meters remain. Use the headloss in future improvements to East and West primaries. | 1) Pipe sizes inside vault are correct. 2) Piping inside meter vaults is correct; record drawings show 2' long spools outside vaults which is where modeling of the system stopped. 3) Slide plates located at the Primary Influent Distribution structure, not the meter vaults. 4) We have shown meter and valve replacement per City direction. Per 10/22 and 10/30 meetings, meter sizes will be as currently shown. | | Chandler/Youker/Maestri | 10/31/2019 | Noted | |
| 227 | Ed Fernbach | | 94 | | Air relief vault or standpipe at highpoint over 11x11 | Two Air Relief Valves (ARV) called out. Details to be included in 90% design phase. | | Chandler | 10/14/2019 | Noted | |
| 228 | Ed Fernbach | | 140 | | Show FeCL3 system and samplers | FeCl: Will show "empty box" for FeCl Storage and Feed system, and show the piping we are relocating Samplers: Will show them in minimal presentation. | | Youker | 10/15/2019 | Noted | |
| 229 | Ed Fernbach | | 140 | | I was told the SOP for RWSP3 pumps will be based on these EBOS LITs. The screen operation in the middle will make this approach unstable. Consider going back to running RSPS3 pumps to maintain a range of wetwell levels | The control model (Replica) will be more fully developed this fall. a) However, if only RSPS3 pumps operating, they likely will be controlled from RSPS3 wetwell level over a band from low to high flow. b) When operating in parallel with HW2, control level may shift to EBOS level. | | Youker | 10/10/2019 | Noted | |
| 230 | Ed Fernbach | | 143 | | Gates should allow for flushing screen channels - not just open and close. Show the flap gates on the drain connections. Stop plates should be shown. | 1) Will Check if gate actuator is open/stop/close so gate can be partially opened. If not then make "modulating". Want to be able to jet water under gate to push any settled grit along. 2) agree 3) agree GMP Assumption: Include additional embeds or guides, and stop plates with flap valves. | | Youker, Maestri | 12/6/2019 | Noted | \$ 171,000 |
| 231 | Ed Fernbach | | 144 | | Sluice water is 2-inch but specs call for 200 gpm. Does Huber have jam switches at the motors? | 1) Huber had 2" nozzle on end of sluice. 2) Need to coordinate | | Youker | 10/10/2019 | Noted | |
| 232 | Ed Fernbach | | 144 | | All large headworks I have seen have hot water for grease control. O&M says they don't have it now and don't need it. I disagree. | Acknowledged. Per direction from City PM, this is not in the scope of this project and O&M says they do not want it. Generally, I've seen HW for perforated plate screens, not bar screens. Possibly they have portable high pressure/hot water pressure washer. | | Youker/Maestri | 10/31/2019 | Noted | |



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| | | | | | | | Name | Date | | \$ |
| 233 | Ed Fernbach | | 146 | | 1) Our standard is to use pneumatic operators on the compactor feed; electric operates too slow. 2) Compactor and sluice overflows not shown. 3) Overload protection on the winch? Seen many that have failed and been removed - bin wheels don't always work freely. | 1) I've used motorized for open/close (in-service/out-of-service) where speed not an issue. Discussed on 10/22 and open/close are fine. 2) Sluice overflow shown on Sht 147. Compactor overflows... will review with Huber; overflow from sluice may act as overflow for system. 3) Will revise options with winch suppliers for overload protection. | Youker | 10/10/2019 | Noted | |
| 234 | Ed Fernbach | | 147 | | Sluice trough overflow is only 6-inch but 16 inch to Temp bin shown here. | Temporary bin to be coordinated between mechanical and I&C. Want uninhibited flow to temporary bin. | Youker | 10/10/2019 | Noted | |
| 235 | Ed Fernbach | | 147 | | Standard to put hot water in to degrease the compactor. | See response to comment 235 | Youker/Maestri | 10/31/2019 | Noted | |
| 236 | Ed Fernbach | | 149 | | Confusing - Small water lines shown and major process lines. Fix line work. The pump drain - doesn't the water goes down the shaft housing? | Major process lines will be increased in size in the 90% review set. | Foley | 10/15/2019 | Noted | |
| 237 | Ed Fernbach | | 149 | | Vacuum maker/breaker size not shown - where does this pipe vent to? | The vacuum breaker is sized for 6 inches. It vent to atmosphere. | Foley | 10/15/2019 | Noted | |
| 238 | Ed Fernbach | | 149 | | Power to pump appears to be coming thru the local control station? | Power comes from VFD as shown on the P&ID. The local control only consists of an "ESTOP". | Foley | 10/15/2019 | Noted | |
| 239 | Ed Fernbach | | 153 | | 1) Not sure what the LITs in each grit tank are for - not normally done. 2) Overflows from the main channel to the EOB not thru the control weir? Flushing connections not shown. | 1) per VE, we incorporated LE/LIT at each basin to provide approximate flow over basin effluent weir. From these flow values, we can throttle inlet gates to balance the hydraulic flow to the basin. The balancing would be slow and coarse adjustment/balancing of flow.. 2) The Diversion Gate is at invert of channel and used to intentionally bypass flow. If the gate is flow, and something happens downstream (California Gate is closed, then water level will rise and passively overflow to EOB feed channel. 3) Flushing connections shown coming in from left side of drawing. | Youker | 10/10/2019 | Noted | |
| 240 | Ed Fernbach | | 156 | | We are now seeing instances of organic and grease building up in the cone if the overflow is recycled to the front. Consider giving ops the option of putting the GR/OF into the grit structure effluent to the primaries. | Can add inexpensively. Provide direction. GMP Assumption: No scope change. | Youker | 12/6/2019 | Noted | |
| 241 | Ed Fernbach | | 167 | | HW 3 Recycle PS should have the option to go to primaries. Note that the top of this structure needs to be above EL 11. | This was discussed in the 10/30 meeting and it the routing of the pipes and what went to the recycle pump station was unclear to the reviewer. It goes to the EBOS. The elevation will remain as is. There are storm drains connected to this pump station so the pump station will flood no matter what the wall elevation it. Per our discussion, no change is planned at this time. | Edwards, Youker, Maestri | 10/31/2019 | Noted | |
| 242 | Ed Fernbach | | 168 | | Grit Room Sump Pumps - not sure why this is needed. The headcells, pump flushing and washdown could be full of grit. The drainage from this room needs to be large diameter and back to the HW 3 drain PS by gravity | Per discussion on 10/30 will consider that when wading down the pump room it could create grit load into the drain systems. Will size pipes accordingly. | Youker | 10/31/2019 | Noted | |
| 243 | Ed Fernbach | | 218 | | Showing imbeds for motorized slide gates and slide plates. Couldn't find details but wouldn't bolt on frames be a less expensive and better option? | Considered, but felt channel-mounted frame would stick into flow too much. Maybe minor impact to flow stream. | Youker | 10/10/2019 | Noted | |
| 244 | Ed Fernbach | | 218 | | Depression where screens hit the bottom channel is not required for the Huber Multi-rake - it sits on the flat floor. | Huber's proposal included installation drawings. Including 5" deep x 30" long "pocket". | Youker | 10/10/2019 | Noted | |
| 245 | Ed Fernbach | | 220 | | Not shown: 1) gate lockers, 2) Behind the screen access, 3) Downstream slide plate slots, 4) Screen and sluice access platforms, 5) Pick points for all equipment | 1) stop plates not included in scope. Intent is to provide a slot so that a stop plate could be fabricated when required to be used. Therefore, gate locker not included. If stop plates to be added to scope, provide direction. 2) Sections of checker plate provided immediately upstream/downstream of screen. Agree that these will not provide good access idown into channel. Can provide additional 3x3 sidewalk doors (6 total, 1 up/1 down each screen). 3) Downstream stop plate slots intentional left out. Downstream gate rarely used, normally open. If maintenance of downstream gate required, use HW 2. Downstream slots can be added. Provide direction. 4) Screen and sluice platforms intentionally not provided. Portable systems available, or permanent added after system is in place. Access platforms add cost and scope. Provide direction. 5) Don't understand. Deck designed for City vehicles per information provided. GMP Assumption: Gate lockers included in Item No. 214. Stop Plates included in Item No. 230. Include access platforms in Item No. 253. | Youker | 12/6/2019 | Noted | |
| 246 | Ed Fernbach | | 221 | | Spacing between screens is 6 feet - large. Could be reduced or used for gate locker. | Will leave as 6' between channel. Space between screens is appropriate for access. | Youker | 10/10/2019 | Noted | |
| 247 | Ed Fernbach | | 222 | | See Comment on 218 | Noted. Safety climb device will be provided and is specified in section 05 50 00 | Scoggins | 10/15/2019 | Noted | |
| 248 | Ed Fernbach | | 222 | | The gates are only 14 feet tall which puts the gate top at EL 6. Aren't we trying to hold back to EL 11? | Normal high level is EL 4.00. As currently configured, if the level were to exceed EL 6.00, it is due to equipment problem. In that case water could overflow top of gate into the out-of-service screen channel and flow to RSPS 3, before reaching high level.. Was agreed in 12NOV2019 meeting that this is acceptable. No change required. GMP Assumption: No scope change. | Youker | 12/6/2019 | Noted. Jacobs to work with the City to develop a channel overflow protocol since the motorized gates can be overtopped. This could be part of the Control Strategy memorandum. | |
| 249 | Ed Fernbach | | 224 | | Show pick points for the Compactors and supports for the tubes. | Compactors will be serviced from the side with dumpster removed. Discharge tubes will be supported from floor slab. Sluice will be support from floor slab. Typically, supports are added between 60% and 90% design phase. | Youker | 10/10/2019 | Noted | |
| 250 | Ed Fernbach | | 227 | | Need to have a discussion on slide plates. Comments at 30 % said HW2 would be used if gates needed to be repaired. Disagree. We should have stop plates upstream and downstream of all three screen channels. | they are being added as noted in other responses | Youker | 10/10/2019 | Noted | |



San José-Santa Clara
Regional Wastewater Facility

Quality Review Form

File Name:

Project Name:

Document:

QRF Log Backcheck By City (2/1/2020)

New Headworks and Headworks Improvements Project

New Headworks Project - 60% Design Drawings and Specs City Backcheck

Submittal Date:

Reviewer/s:

Project No.:

10/9/2019

City/CIP/O&M

7477/7701

Backcheck Date

2/1/2020

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| Reviewer | | | | | | Originator | | | | Reviewer | Cost |
|----------|-------------|----------------|------------|-----------------------------------|--|---|-----------------|------------|---|--|-----------|
| # | Reviewer | Critical Issue | Page Index | Reference Drawing, Specification, | Comments / Questions | Resolution / Response | Resolution | | | Back-Checked & Approved | \$ |
| | | | | | | | Name | Date | | | |
| 251 | Ed Fernbach | | 227 | | All MHs should be 60-inch diameter. Drainage will not get to HW3 by gravity when flooding occur at EBOS according to the hydraulic profile. | 1) MH size will be per City gray book. 2) agree that if water level in channels is above EL ~8 (super unusual), flow will not drain by gravity. GMP Assumption: Include two larger manholes. | Youker, Maestri | 12/6/2019 | | Noted | \$ 3,000 |
| 252 | Ed Fernbach | | 227 | | Drainage for overflow bin not shown. | Intended to route to drain trenches under normal dumpster locations. Can add sump and connect to drain piping. | Youker | 10/15/2019 | | Noted | |
| 253 | Ed Fernbach | | 231 | | 1) Show platforms for screen and sluice access 2) Channel access needed behind screens for bar changeout. 3) Crane access from levee road needs to be provided - reach to Screen 3 especially far. 4) Hose racks, control stations etc. need to be up on the platforms | 1) will add platforms as discussed on 10/22 and 10/30; 2) will work in additional access (4x4 sidewalk doors); 3) crane can set up on levee side;; 4) will review during 90% GMP Assumption: Include scope change for platforms and access hatches. | Youker | 12/6/2019 | | Noted | \$ 74,030 |
| 254 | Ed Fernbach | | 232 | | The width of the vactor truck dump area seems narrow - only 20ft. Drivers would have to squeeze in and out if tow are there at a time. | Only one vactor truck at a time, and not often. 20 ft width is acceptable to dump a vactor truck. Per 10/22 meeting, the current width is acceptable. | Youker | 10/15/2019 | | Noted. However, this plant should be set up a Regional facility for the next 30+ years. This needs to be discussed further post 60%. | |
| 255 | Ed Fernbach | | 233 | | 1) Compactor overflow missing 2) is there vertical space for future scales? 3) Use pneumatic gates 4) Sluice overflow to bin not shown, | 1) Per discussions with Huber, will add next phase; 2) per discussions on 10/22 if weighing is needed in the future city will use scales at other facilities on site.; 3) Electric O/C gates are sufficient; speed not necessary. Discussed in 10/22 meeting and electric is acceptable and no change will be made. 4) will add additional piping at end of sluice and a permanent small dumpster to use in an emergency situation. Will add additional drainage for small dumpster. GMP Assumption: Include additional sluice length and drain line. | Youker | 12/6/2019 | | Noted | \$ 29,000 |
| 256 | Ed Fernbach | | 234 | | Motorized gates a greater than 14 feet tall. Won't they stick up higher than shown in the section? Note that at EL 11, the seating head on the gates will be 19 feet. | Yes. After we resolve how tall the gate needs to be for isolation (other comments), then we'll get the model fixed up. Also recommend considering butterfly gates., then less of gate will extend above deck. | Youker | 10/16/2019 | | Noted | |
| 257 | Ed Fernbach | | 235 | | Detail is for a compactor only. Does this match what Huber is supplying? We should have a tub overflow. | Yes, there should be an overflow for the tub. Huber did not include in original proposal, but we discussed recently. | Youker | 10/16/2019 | | Noted | |
| 258 | Ed Fernbach | | 245 | | See previous comments on stop plates - where are they, how is ops to reach these locations? | Stop plates are currently not in scope and are only needed for gate maintenance if the pump station is in service. Client can direct if plates are desired to be added to scope. | Crook | 10/15/2019 | | Noted | |
| 259 | Ed Fernbach | | 248 | | Shouldn't this baffle wall be precast? | Intent is CIP | Scoggins | 10/15/2019 | | Noted | |
| 260 | Ed Fernbach | | 251 | | Is pipe reaction blocking needed? | Pipe support systems will be finalized as design progresses. | Scoggins | 10/15/2019 | | Noted | |
| 261 | Ed Fernbach | | 252 | | Motorized slide gates shown in unseating position - why? | To allow the frames for stop plates to be in the seating position, without modification to the structure which would add cost. | Crook | 10/15/2019 | | Noted | |
| 262 | Ed Fernbach | | 255 | | Water supply needs freeze protection (Dec 1991) | Design builder has previously requested site wide guidance from the client regarding approach on freeze protection. Water supply to the pumps will follow site wide guidance. Design builder has previously stated no freeze protection will be added in BODR. | Crook | 10/15/2019 | | Noted | |
| 263 | Ed Fernbach | | 267 | | Comments on the 30% were directed to provide a more cost efficient structure for the grit removal. It appears many have been ignored in this design. Generally, we find that the most effective use of space includes: 1) Putting the grit pumps under the influent channels, 2) Using the spaces between the headcell inlets for pump removal 3) Providing access to the Pump room from g=ride on the north side 4) Piggy backing the effluent channels; to Primaries on top, to EOB underneath Sketches have been provided under separate cover. | Per June 2019 meeting in San Jose, and review of site layout, we agreed to located grit pumps under effluent channel. We also agreed to eliminate the belt conveyor and directly load grit into the dumpsters. Per 10/30 meeting we will move the loadout and coanda units further back, centered more on the headcells. Piping will be reviewed to shorten it and decrease the number of 30% bends. Additional review will be done on the layout of the facility and location of the pumps, but no change is planned or approved for that portion of the comments at this time. Hydro Internationa (HI) I was contacted to discuss the location of the piping from the PS into the grit channel. Adding a wall with opening centered on the walls between the hyrdocells. HI has said in writing this is acceptable. GMP Assumption: Include scope change for internal wall. Do not alter piping. | Youker, Maestri | 12/6/2019 | The layout approach at 60% was new to us. The Project Team had no intermediate contact with the designers during development of the new layout. Pumping under the Headcell feed channel, extending the headcell effluent channels to the pipeline invert and setting the Coanda Units on piers on the ground (not on top of a big structure) would have been a more cost effective layout. This is a critical issue and the Project Team is hoping these facilites can undergo further optimization from the 60%-90% design phase. This incudes reconfiguration of the the new RSPS 3 discharge and the headcell approach configuration. | \$ 94,531 | |

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TABLOID REVIEW FORM | HW Project 60 percent QRF_20191018 - City Responses_20200212_R3.xlsx

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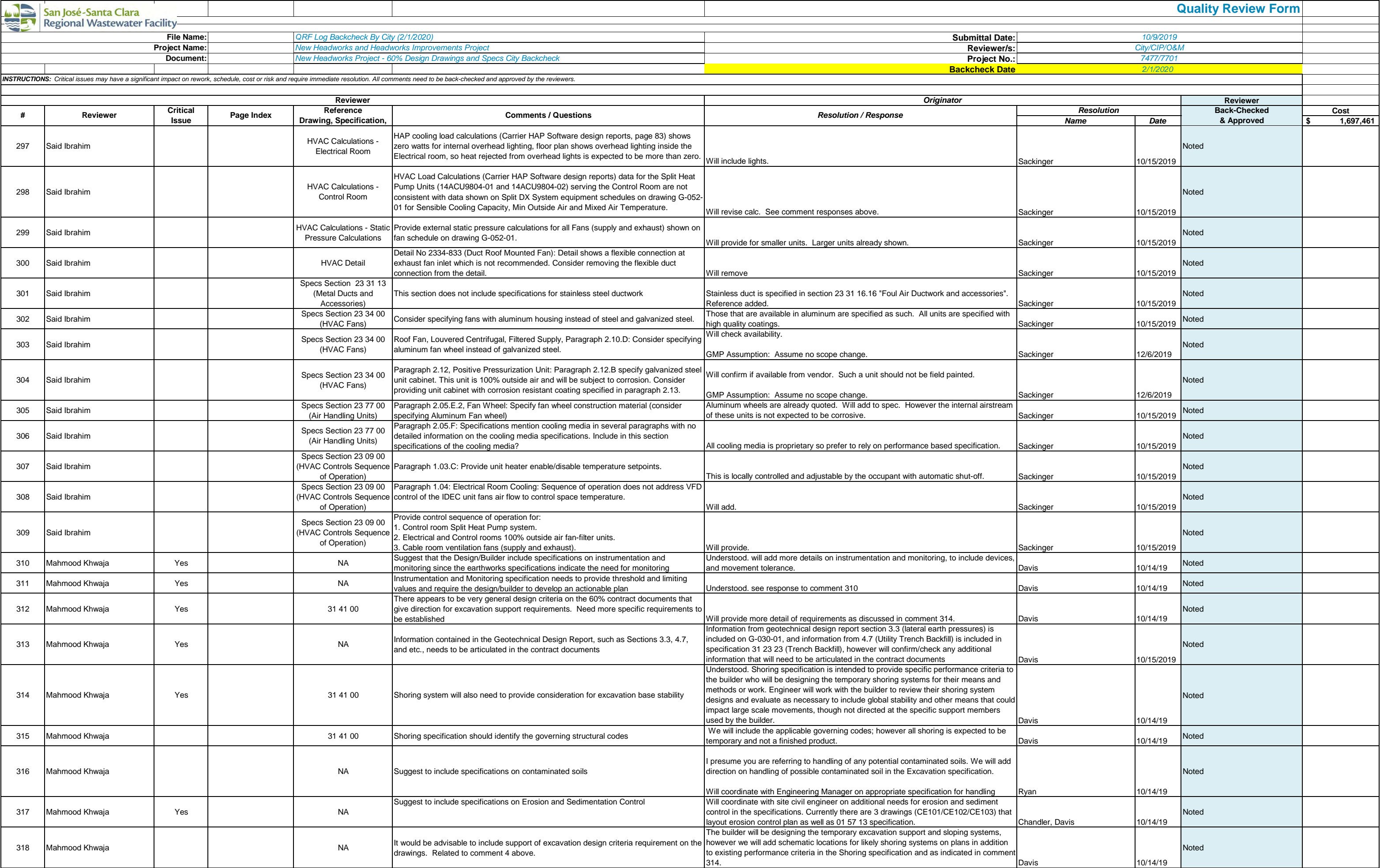
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|  | | San José-Santa Clara Regional Wastewater Facility | | | | Quality Review Form | | | |
| File Name: | | QRF Log Backcheck By City (2/1/2020) | | | | Submittal Date: | | 10/9/2019 | |
| Project Name: | | New Headworks and Headworks Improvements Project | | | | Reviewer/s: | | City/CIP/O&M | |
| Document: | | New Headworks Project - 60% Design Drawings and Specs City Backcheck | | | | Project No.: | | 7477/7701 | |
| | | | | | | Backcheck Date | | 2/1/2020 | |
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| # | Reviewer | Critical Issue | Page Index | Reference Drawing, Specification, | Comments / Questions | Resolution / Response | Resolution | | Back-Checked & Approved |
| | | | | | | | Name | Date | |
| 264 | Ed Fernbach | | 267 | | Grit inlet channel needs to be tapered to prevent large deposits in the north and south corners | Plan to perform CFD analysis on the inlet channel (after EBOS and Screens). Agree that will likely lead to fillets and shaping of influent channel. | Youker | 10/16/2019 | Agree With Response. Jacobs to provide the City with memoranda explaining the approach and results for the screens, grit and pump sections. Jacobs to also provide the final CFD models to the City. |
| 265 | Ed Fernbach | | 283 | | Grit piping is terribly inefficient. Pumps from Basins 1 & 2 have eight or more right angle bends. Please explore ways to: 1) use long radius 45 degree bends, 2) provide accessible flush points, 3) Provide flushing system, 4) Take the shortest route possible, 5) | Will attempt to optimize. 1) Can replace 90s with 45s 2) will review and attempt to provide additional accessible flushing locations; transitioning from lower level to grit loadout "pod" makes access difficult. 3) 4) will review to shorten an reduce bends.. | Youker | 12/6/2019 | Noted |
| 266 | Ed Fernbach | | 284 | | Need stop plate in front of gate 14GTE9533-01. This gate can be used for diversion to EOB flow metering. | Post-60, we plan to locate gate on downstream side of wall instead of in center of wall. Can put stop plate guides on upstream side of wall. | Youker | 10/16/2019 | Noted |
| 267 | Ed Fernbach | | 286 | | Ops needs to be careful when filling grit dumpsters - they will be overweight if full. Scales should have been provided. | Acknowledged. Per 10/22 meeting scales are not being added to the project. | Youker | 10/31/2019 | Notes, but leave room for a future scale in the vertical profile. Jacobs to discuss with the City during the 60%-90% phase. |
| 268 | Ed Fernbach | | 288 | | Where do the vacuum breakers vent to? Headcell access hatches should be shown. | Vacuum breaker pipe will vent to below concrete deck. Access hatches will be detail next phase... anticipating 2-3 2'x2' openings to hose, observe, let light in when observing. | Youker | 10/16/2019 | Noted |
| 269 | Ed Fernbach | | 290 | | Dumpsters occupy only a small portion of the loading area - appears the whole structure and top deck could be cut down in area. | Agree that dumpsters occupy small portion of area below grit washers. If washers oriented more perpendicular to dumpsters, then structure would be shorter, but much wider and impacts fire truck access around west side of facility. Per discussions on 10/30 dumpsters and coanda units are being moved. | Youker | 10/16/2019 | Noted |
| 270 | Ed Fernbach | | 291 | | Follow a more direct path with grit piping. Use long radius elbows and flushing connections. Show location of the flow meter. Do not drain directly into the floor system. ^ich drains are too small. Not sure the sump pumps are needed with the ability to go gravity to the pump station outside. | 1) Long radius elbow have been used, but will review for more direct path with flushing per previous comments. 2) Will enlarge basin drain to 8". Grit pumps will be used to lower water level to approx. half depth, and remove most of grit. 3) Per previous comment, will review removal of sump pumps. If water level in HW3 Recycle Pump station exceeds El 0, then gravity flow from room is not feasible. May need to revise Recycle Pump Station pumps, and/or structure. | Youker | 10/15/2019 | Noted |
| 271 | Ed Fernbach | | 292 | | The two 45 degree ells on the pump suction appear to be short radius. Provide flushing connections on suction. Where is the flushing header in the pump room? Use full port ball valves - not plug valves, on all grit lines. | 1) Will revise 45s to LR, but may push pump further into room. 2) Flushing connections are included, but sounds like desire for a wye/blind flange/hose connection. Provide direction if required. 3) There is WTR3 (backed up by RW) header in room. Drops to Hose Valves. There is no hard piped flushing connection. Provide direction if required. 4) Can revise plug valves to full-port ball valves. If there is specific manufacturer with specific material of construction, please provide. | Youker | 10/16/2019 | Noted. Ed to provide information to Brian. |
| 272 | Ed Fernbach | | 293 | | 6-inch drain from headcells is too small for a big grit load and goes to where? | 6-inch drain to HW3 Recycle Pump Station. If draining a HeadCell, use grit pump to drain half-way down or more, then drain remaining liquid to Recycle Pump Station. | Youker | 10/15/2019 | Noted |
| 273 | Ed Fernbach | | 316 | | Top of recycle pump station needs to be above EL 11. Otherwise a plant flood will flood back up thru floor drains and catch basins. | Discussed this in 10/22 meeting. catch basins are routed to this facility so the facility will be flooded when there is a flood inside the plant, regardless of how tall the walls of the facility are. No change to be made to current design. | Edwards | 10/15/2019 | Noted |
| 274 | Ed Fernbach | | 35 20 16.25 | | Fabricated Slide Gates - 1) Be specific on type of SS 2) Suggest full flat plate front and back on raw sewage, 3) All gates are Type B; would Type A be less expensive and easier to install and maintain? 4) Get lessens learned from Emergency project on the gates, 5) Upstream screen gates need to have a Seating head of 19 feet - not 10; Most gates should allow for partial opening for channel flushing | 1) Paragraph 2.02 dictates all sst to be 316/316L. 2) Will investigate the cost/benefit. 3) Some gates are defined as Type A on the Schedule. Type B gates work well in channels where the opening should be full channel with to prevent build up of solids/grit at walls. 4) Will request information. 5) Seating Head is to the centroid of the gate. In this case 10ft is conservative as the gate is 14ft tall. | Edwards | 10/15/2019 | Noted |



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| 275 | Ed Fernbach | | 44 31 00-26 | | Huber has been selected. Few comments 1) Rake speed should be at least 30ft/min to meet the conveying needs of the project 2) rake teeth and bar packs need to be specified as 12 inches wide and match up. Allows for easy replacement and conversion to finer screen in the future, 3) Mixture of 304 and 316 SS in spec. Flume sized for 200 gpm - verify with Huber all the downstream equipment can handle the flow 4) Huber is what compactor? Their WAP models have tub overflows and need to be specified as capable of running continuously. The bottom screen opening of 3mm seems too small to pass the 200 gpm flow at full capacity. Separate workshop was held on testing requirements 10/3/19. 5) Inlet hopper should have level sensing, | Correct Spec Section is 44 42 30 1) Per discussions with Huber, normal rake speed is 39 fpm down to 20 fpm. Will revise spec. 2) Contacted Huber and segmented rakes is what they had priced. Spec will be updated to reflect this. 3a) Will review for stray 304 references. 3b) will verify with Huber that one compactor can drain 200 gpm. They've also mention that they recommend less sluice water. 4a) WAP-L6. Although they did propose their twin system, WAP-L12 as an alternate. 4b) Yes, per recent discssions their proposal had left out the compactor overflows. Will be adding them back into project. 4c) will verify the drain openings are spec'd appropriately -- intent is to get their standard equipment. 4d) acknowledge separate 10/13 workshop. 5) Disagree with level monitoring. However, can provide high level switch to alarm overflow condition. Will look at flow switch in piping also. Per 10/30 meeting: Ed has been discussing San Jose design with Huber. 1. mentioned the speed of the screen cleaning. 2. requires specification change 4c. Drainage openings ~5mm | Youker, Maestri | 11/12/2019 | Noted | |
| 276 | Ed Fernbach | | 44 42 40-3 | | Match up Design and Performance with design criteria sheet. See results from performance guarantee workshop of 10/3/19. | Will coordinate equipment testing with testing requirements discussed. | Youker | 10/16/2019 | Noted | |
| 277 | Ed Fernbach | | 44 42 41-1 | | Performance requirements of 1.5 tons per hour seem outrageous - we only get approximately 1 ton per day. Slurry concentration of 0.5 - 1.5 %? If we are going to get that high - pumping needs to be revisited. Normally our feed slurry is less than 0.1%. No need to test each unit - see results of 10/3/19 workshop. | Specified the capacity of the equipment, not the capacity we expect. Will coordinate with startup and testing. | Youker | 10/16/2019 | Noted | |
| 278 | Ed Fernbach | | 44 42 56.03 | | Did not review the RSP3 pump spec - all design criteria seemed to be missing. | The pump data sheet includes sufficient information for prescribing design criteria for the pump. | Crook | 10/15/2019 | Noted | |
| 279 | Ed Fernbach | | 44 42 56.09 | | Didn't realize we had any of these. | Yes. Replacing West Primary Drain Pumps 1 and 2 is required as part of the Recycle Flows scope. The existing pumps are Non-clog centrifugal. | Edwards | 10/15/2019 | Noted | |
| 280 | Ed Fernbach | | 44 42 56.12 | | These pumps need to be closely reviewed after the grit piping design is completed. By my calcs, the discharge head is close to 40 ft TDH - not 15 ft as shown on the data sheet. Note that the higher head design is less likely to go quickly to shutoff as plugs develop. | Difference in static is approximately 10 feet, and losses through unit is less than 12". So believe TDH is closer to 15 ft than 40 ft. Per internal review comments, plan to revise from constant speed to variable speed. | Youker | 10/16/2019 | Agree With Response. Consider 4-inch or 5-inch grit piping for a better location on the normal operating curve | |
| 281 | Said Ibrahim | | | G-004-01 (Abbreviations 1) | Provide abbreviations for EXH and FLR | Will do. | Sackinger | 10/15/2019 | Noted | |
| 282 | Said Ibrahim | | | G-05-01 (HVAC Legends) | HVAC Equipment Identification: Provide identification to the following HVAC devices shown on HVAC drawings: SG, EG and RG. | Will do. | Sackinger | 10/15/2019 | Noted | |
| 283 | Said Ibrahim | Yes | | G-051-01 (HVAC Airflow Schematics) | Identify location of duct smoke detectors for hvac air handling units and fans in compliance with California mechanical code, NFPA 820 and AHJ. Duct smoke detectors are not shown on HVAC drawing. Duct smoke detectors are required by California Mechanical Code and NFPA 820 for fans with more than 2000 CFM airflow. | Addressable Area Smoke Detectors are allowed by the Mechanical Code, NFPA 820, and usually accepted by the AHJ. | Sackinger | 10/15/2019 | Noted | |
| 284 | Said Ibrahim | | | G-051-01 (HVAC Airflow Schematics) | Consider providing reference to drawing G-111-01 for area classifications and required ventilation air changes per hour | Will provide reference. However the air changed are already calculated and presented as air flows. | Sackinger | 10/15/2019 | Noted | |
| 285 | Said Ibrahim | | | G-052-01 (HVAC Schedules) | Split DX System (Indoor/Outdoor Units) Schedule: Cooling coil sensible capacity scheduled (24,000 BTU/Hour) is lower than sensible cooling capacity calculated by HAP (27,700 BTU/Hour). Equipment schedules and HAP calculations should be aligned. | Will correct schedule. Sensible capacity at ARI is 27,700 Btuh. Actual sensible capacity will be higher because latent loads will be lower than ARI. However only ARI operating conditions were available from the vendor. | Sackinger | 10/15/2019 | Noted | |
| 286 | Said Ibrahim | | | G-052-01 (HVAC Schedules) | Split DX System (Indoor/Outdoor Units) Schedule: Cooling coil mixed air temperature scheduled at 80DB/67WB deg F. HAP Program Cooling load calculations report shows mixed air temperature of 76.6DB/60.9WB. Equipment schedules and HAP calculations should be aligned. | Vendor was not able to provide performance at the HAP calculated conditions. Unit capacity will be higher at HAP conditions than at ARI. | Sackinger | 10/15/2019 | Review at 90% | |
| 287 | Said Ibrahim | | | G-052-01 (HVAC Schedules) | Split DX System (Indoor/Outdoor Units) Schedule: What is the cooling coil leaving air temperature? It is expected to be aligned with data shown on HAP program calculations report. | Vendor selection only provided ARI conditions. Actual design day LAT DB and WB likely to be close to what HAP shows. | Sackinger | 10/15/2019 | Review at 90% | |
| 288 | Said Ibrahim | | | G-052-01 (HVAC Schedules) | Split DX System (Indoor/Outdoor Units) Schedule: Min Outside Air for indoor unit is shown zero CFM. HAP program calculations report shows a min outside air of 400 CFM. Equipment schedules and HAP calculations should be aligned. | The schedule shows no outside air because not ducted to the AC unit. A 90 cfm OSA load is accounted for in the Control Room HAP calculation. | Sackinger | 10/15/2019 | Noted | |
| 289 | Said Ibrahim | | | G-052-01 (HVAC Schedules) | Air handling Units Schedule: Consider adding specifications section numbers referenced in remark B. | Will reference section 23 09 00.01 | Sackinger | 10/15/2019 | Noted | |
| 290 | Said Ibrahim | | | PM-301-14HW3GB | Consider showing the elevation (from finished floor) of the bottom of low exhaust duct, supply duct, supply and exhaust registers. | Will do. | Sackinger | 10/15/2019 | Noted | |
| 291 | Said Ibrahim | | | M-112-14BLDG64 | Battery Room: Consider showing on drawing the low exhaust duct/register elevation above finished floor. | Will reference detail that calls out elevation. | Sackinger | 10/15/2019 | Noted | |
| 292 | Said Ibrahim | | | M-112-14BLDG64 | Identify type (tags) of supply air devices serving Janitor and Toilet room. | Will do. | Sackinger | 10/15/2019 | Noted | |
| 293 | Said Ibrahim | | | M-112-14BLDG64 | Coordinate the abbreviation for Refrigerant Piping shown in this drawing with abbreviation shown on drawing G-004-02 (REFRIG = Refrigerator) | Will update legend. | Sackinger | 10/15/2019 | Noted | |
| 294 | Said Ibrahim | | | PM-301-14BLDG64 | Show room names on building section | Will do. | Sackinger | 10/15/2019 | Noted | |
| 295 | Said Ibrahim | | | PM-302-14BLDG64 | Show room names on building section | Will do. | Sackinger | 10/15/2019 | Noted | |
| 296 | Said Ibrahim | | | HVAC Calculations - Electrical Room | HAP cooling load calculations (Carrier HAP Software design reports, pages 76 and 85) shows wall U-Values of 0.068 and 0.241 respectively while drawing G-021-01 shows Electrical Room walls with 0.65 U-Value. Confirm coordination of wall U-Values with the Architectural drawings. | Will revise calc. 0.068 is correct for insulated areas. For Elect room walls, 8" of heavy concrete block has U= 0.47. This increases cooling 4%. | Sackinger | 10/15/2019 | Noted | |







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| File Name: | | QRF Log Backcheck By City (2/1/2020) | | Submittal Date: | | 10/9/2019 | |
| Project Name: | | New Headworks and Headworks Improvements Project | | Reviewer/s: | | City/CIP/O&M | |
| Document: | | New Headworks Project - 60% Design Drawings and Specs City Backcheck | | Project No.: | | 7477/7701 | |
| | | | | Backcheck Date | | 2/1/2020 | |

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| | | | | Reference Drawing, Specification, | Comments / Questions | Resolution / Response | Resolution | | Back-Checked & Approved |
| | | | | | | | Name | Date | |
| 319 | Hong Nguyen | | | 60 pct. Design Deliverable_Vol3of5_Specifications | Even though field instrumentation to be provided by Jacobs as stated in 40 95 00, the following instrumentation specifications are recommended to be included in contract document. • 40 91 00.13 – Instrumentation and Control Components, Analytical • 40 91 00.15 - Instrumentation and Control Components, Flow • 40 91 00.17 - Instrumentation and Control Components, Level • 40 91 00.19 - Instrumentation and Control Components, Pressure | They are being provided in the form of data sheets instead of a specification. | Foley | 10/15/2019 | Noted |
| 320 | Hong Nguyen | | | 60 pct. Design Deliverable_Vol3of5_Specifications | Add the following missing sections. • 40 92 05 – Programmable Logic Controllers • 40 92 06 - Network and Computer Components | 40 92 06 - Network and Computer Components will be added. The is no PLC in this project. | Foley | 10/15/2019 | Noted |
| 321 | Hong Nguyen | | | Instrument List | Match P&ID NOs with Drawing Numbers in the Vol4of5 Drawing Set. For example the P&ID NO for Plant Influent Combustible Gas should be 7701-N-007-09. | This will be corrected in the 90% review set. | Foley | 10/15/2019 | Noted |
| 322 | Hong Nguyen | | | Instrument List | Per Basis Design Report and WORD DOC_SJHW-PMT-MET-Electrical-IC-SCADAMinutes-2018-10-23-R0_CDM Smith, Magnetic flowmeter will be Toshiba, and Endress + Hauser (E+H) is not selected, but E+H is listed on Instrument List. Confirm. | Toshiba is the first named manufacturer, but we are required to list a second manufacturer, as Toshiba has not been sole-sourced. | Foley | 10/15/2019 | Noted |
| 323 | Hong Nguyen | | | Instrument List | Indicate FET being Flowmeter with Integral Mounting Transmitter, and FIT Flowmeter with Remote Mounting Transmitter. | This is shown in the respective data sheets. | Foley | 10/15/2019 | Noted |
| 324 | Hong Nguyen | | | Instrument List | Per Basis Design Report and WORD DOC_SJHW-PMT-MET-Electrical-IC-SCADAMinutes-2018-10-23-R0_CDM Smith, NovelCo is selected for radar level transmitter, Endress + Hauser is not the preferred vendor but is listed. Confirm. | Novelco does not manufacture radar level transmitters. They only manufacture ultrasonic level transmitters, which we do not recommend for the application. | Foley | 10/15/2019 | Noted |
| 325 | Hong Nguyen | | | Section 40 91 01 - Control Strategies | Recommend to include 1.01 Summary prior to Description section. | This can be added to 90% review set. | Foley | 10/15/2019 | Noted |
| 326 | Hong Nguyen | | | 40 91 01, 1.02., A.3 Drawings | Drawing N-028-09, HW3 Grit Conveyance P&ID had been removed from the set. Drawings N-060-09 and N-061-09 are not listed. | Specification reference table will be updated in the 90% review set. | Foley | 10/15/2019 | Noted |
| 327 | Hong Nguyen | | | Section 40 91 01 Supplement | This section does not follow the Process Control Strategy Template, which is provided in Misc. #69 Updated Div. 40 Specs – 40 91 00, Control Strategies. Clarify. | We will look into providing the Control Strategies in this format. | Foley | 10/15/2019 | Noted |
| 328 | Hong Nguyen | | | 40 91 01 Supplement-1, 2. Reference | Drawing N-028-09, HW3 Grit Conveyance P&ID had been removed from the set. Drawings N-040-09, N-060-09 and N-061-09 are not listed. | Specification reference table will be updated in the 90% review set. | Foley | 10/15/2019 | Noted |
| 329 | Hong Nguyen | | | Field Instrument Data Sheets | Confirm that Area Classification that had been filled in in accordance to Area Classification and Material Selection Table on Drawing G-111-01. | This will be confirmed. | Foley | 10/15/2019 | Noted |
| 330 | Hong Nguyen | | | N-060-09 | General Comments: • Add fiber counts for each cable. • Add panel tag names and locations. • Label Ethernet switches, add media converter if required. • Add Ethernet switches in MCC(s) and Switchgear. • Label all devices and cables. | This will be provided in the 90% review set. | Foley | 10/15/2019 | Noted |
| 331 | Hong Nguyen | | | N-061-09 | • Is it good practice to have Multi-Mode and Single-Mode fibers in the same Fiber Patch Panel? • Add fiber counts for each cable. • Add panel tag names and locations. • Label Ethernet switch, add media converter if required. • Add panel tag names and locations. • Label Ethernet switches. • Is there fiber patch panel in existing EBOS Control Panel? | Detailed fiber wiring will be provided in the 90% review set. Multi-mode and single mode cables need to be on separate patch panels, but patch panels can be installed within the same enclosure. Detailed information will be provided in the 90% review set. | Foley | 10/15/2019 | Noted |
| 332 | Hong Nguyen | | | P&IDs | General Comment: • To be consistent, separate discrete and analog signal line types for line from VFD to controller, similar to flowmeter (discrete line type for DSC and analog signal line type for flow 4-20 mA). | This can be done for the 90% review set. | Foley | 10/15/2019 | Noted |
| 333 | Hong Nguyen | | | N-005-09 | • Assign interface No. (XX) on Interface arrow for 42" RS line. • Should Interface No.67 coming from N-022-09?. | This will be added in the 90% review set. | Foley | 10/15/2019 | Noted |
| 334 | Hong Nguyen | | | N-006-09 | • Correct LAH-9511-01 I/O symbol to a DI symbol. • Assign interface No. (XX) on Interface arrow for FA line to N-033-09. | The switch 14LSH9511-01 is provided with an analog output (8 madc for NORMAL and 16 madc for HIGH). This provides a way to monitor the health of the switch. The interface number will be assigned in the 90% review set. | Foley | 10/15/2019 | Noted |
| 335 | Hong Nguyen | | | N-007-09 | • Assign interface No. (XX) on Interface arrow for 2" FAD line. • Should analyzer AET-9507-00 be identified as combustible? Edit signal description in place of XXX. | 14AET9507-00 will be labeled with an "LEL". Interface connector will be added to the 90% review set. | Foley | 10/15/2019 | Noted |
| 336 | Hong Nguyen | | | N-008-09 | • Show channel continuation line for Influent Screenings Sluice Trough. | Channel continuation line will be added to 90% review set. | Foley | 10/15/2019 | Noted |
| 337 | Hong Nguyen | | | N-009-09 | • Show channel continuation line for Influent Screenings Sluice Trough. | Channel continuation line will be added to 90% review set. | Foley | 10/15/2019 | Noted |
| 338 | Hong Nguyen | | | N-012-09 thru N-016-09 | • Check gate Opened/Closed limit switch on actuator, it should be ZS for consistency. • Missing labels HOR and SS on VFD. • Add abbreviation MMS on Legend sheet. • Should 42" RS line on discharge side of Pump 3 and 4 goto sheet N-020-09?. | Corrections will be made for the 90% review set. | Foley | 10/15/2019 | Noted |
| 339 | Hong Nguyen | | | N-033-09 | • Assign interface No. (XX) on Interface arrow for 2" FAD line and 3" BR/D line. • Should analyzer AET-9507-02 be identified as combustible? Edit signal description in place of XXX and correct AI signal description. | Corrections will be made on 90% review set | Foley | 10/15/2019 | Noted |
| 340 | Hong Nguyen | | | N-038-09 | • Match ID (XX being 50, and N-0XX-09 being N-001-09) on Interface arrow to EBOS. • Swap LI-9721-00 and LAH-9722-00 bubbles' connections to field instruments. • LOR switch is missing in VFD panels. | Corrections will be made in 90% review set. | Foley | 10/15/2019 | Noted |

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|  | | San José-Santa Clara Regional Wastewater Facility | | | | | Quality Review Form | | | | | | |
| File Name: | | | | QRF Log Backcheck By City (2/1/2020) | | | Submittal Date: | | 10/9/2019 | | | | |
| Project Name: | | | | New Headworks and Headworks Improvements Project | | | Reviewer/s: | | City/CIP/O&M | | | | |
| Document: | | | | New Headworks Project - 60% Design Drawings and Specs City Backcheck | | | Project No.: | | 7477/7701 | | | | |
| | | | | | | | Backcheck Date | | 2/1/2020 | | | | |
| INSTRUCTIONS: Critical issues may have a significant impact on rework, schedule, cost or risk and require immediate resolution. All comments need to be back-checked and approved by the reviewers. | | | | | | | | | | | | | |
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| # | Reviewer | Critical Issue | Page Index | Reference Drawing, Specification, | Comments / Questions | Resolution / Response | Resolution | | Back-Checked & Approved | Cost | | | |
| | | | | | | | Name | Date | | | | | |
| 341 | Hong Nguyen / John Mariano | | | N-008-09 | Grid B2, HP was not reflected on equipment. Check P&IDs | Value will be added to 90% review set. | Foley | 10/15/2019 | Noted | | | | |
| 342 | Hong Nguyen / John Mariano | | | N-012-09 | Grid B4, 120V power is reflected for FIT-9669-01. Will specific instruments be powered by UPS? | Currently all field instrumentation is not UPS backed. | Foley | 10/15/2019 | Noted | | | | |
| 343 | Hong Nguyen / John Mariano | | | 40 90 00 page 27 | Paragraph 13b and 16, foreign voltage conductor colors show one as pink and others as yellow, respectively. Clarify | Discrepancy will be corrected in 90% review set. | Foley | 10/15/2019 | Noted | | | | |
| 344 | Chris Ott | | | 44 42 56.03 Vertical Turbine Pumps 1.06.A | Suggest including specific requirements for the vibration analysis firm so there is something quantifiable to compare proposed firm against. Alternatively, list a few acceptable manufacturers so a comparison can be made. The following are potential firms: Mechanical Solutions Inc. (MSI) of Whippany, NJ, DynaTech Engineering Inc. of Auburn, CA or Engineering Dynamics Inc. (EDI) of San Antonio, TX. | Noted. This will be considered and discussed with the pump manufacturer. | Crook | 10/15/2019 | Noted | | | | |
| 345 | Chris Ott | | | 44 42 56.03 Vertical Turbine Pumps 1.06.F | Consider specifying a maximum vibration at the top of the motor, in accordance with HI 9.6.4 appendix C. Consult pump/motor vendors to confirm their ability to meet this condition. | Vibration limits have already been specified in 3.03.3.a and 2.01.D. | Crook | 10/15/2019 | Noted | | | | |
| 346 | Chris Ott | | | 44 42 56.03 Vertical Turbine Pumps 2.08.E.1 | Clarify this requirement about non-overloading motor. The proposed Fairbanks curve in the calc submittal does appear to exceed the rated 600 HP motor size, but outside of typical operating range. I think you want to make it clear that non-overloading is only required in actual operating range. | Spec will be clarified. | Crook | 10/15/2019 | Noted | | | | |
| 347 | Chris Ott | | | 44 42 56.03 Vertical Turbine Pumps 2.08.E.1 | Suggest specifying an acceptance level for both primary and secondary points. Without clarification I believe 1U may only apply to primary. | Clarification will be added. | Crook | 10/15/2019 | Noted | | | | |
| 348 | Chris Ott | | | 44 42 56.03 Vertical Turbine Pumps 2.08.E | Have the pump manufacturers been consulted about whether these pumps can be tested at full length or just the bowl assembly (due to limitations on test pit depth)? Suggest specifying what is acceptable. | They have been consulted, full length has been stipulated in preliminary purchase order language. | Crook | 10/15/2019 | Noted | | | | |
| 349 | Chris Ott | | | 44 42 56.03 Vertical Turbine Pumps 2.08.E | Consider clarifying calibration requirements for instrumentation during factory and field tests. HI standard isn't very clear. | Clarification will be added. | Crook | 10/15/2019 | Noted | | | | |
| 350 | Chris Ott | | | 44 42 56.03 Vertical Turbine Pumps Data Sheet - Performance Requirements | Is there a higher head condition associated with "flushing" the wet well to a lower level (to drain the interceptors)? If so, suggest adding that as a specified point. | Tertiary point will be added for flushing condition to ensure the AOR of the pump is not modified and can cover this point. | Crook | 10/15/2019 | Noted | | | | |
| 351 | Chris Ott | | | 44 42 56.03 Vertical Turbine Pumps Data Sheet - Performance Requirements | Could these pumps ever "run-out" beyond 52.5 mgd? If so, suggest adding another specified point at higher flow. | An extra point will be added to ensure AOR of the pump is not modified and can cover this point. | Crook | 10/15/2019 | Noted | | | | |
| 352 | Chris Ott | | | 44 42 56.03 Vertical Turbine Pumps Data Sheet - Performance Requirements | Minimum efficiency and max NPSH3 should be specified for each point and associated acceptance grade. At a minimum, 1U must apply to the rated point. 1U requires no negative deviation for flow, head, and efficiency. Additional points can be tested for efficiency relative to the performance requirements with a penalty being assessed if efficiency is negative. | Additional data will be added in 90% design associated with these data points. | Crook | 10/15/2019 | Noted | | | | |
| 353 | Chris Ott | | | 44 42 56.03 Vertical Turbine Pumps | Confirm non-reverse ratchet is outside of Class 1 Div. 2 area and/or is rated for that classification. | Motor and ratchet are outside of classified area. | Crook | 10/15/2019 | Noted | | | | |
| 354 | Chris Ott | | | Calculations - RSPS Pump Hydraulics | Include overlay of system curves on proposed pump curves. Clearly show full envelope of operating conditions, including flush down. | Calculations for 90% will show requested data. | Crook | 10/15/2019 | Noted | | | | |
| 355 | Chris Ott | | | Calculations - RSPS Pump Hydraulics | Not clear why inlet elevation to pump of -1.5 ft is being used. The actual pump inlet appears to be closer to -20 ft. Suggest using proposed impeller elevation so NSPHA can be accurately calculated. Looks like it's probably OK but the Fairbanks selection has pretty high NPSH3 at runout. | Calculations will be updated in 90%. | Crook | 10/15/2019 | Noted | | | | |
| 356 | Chris Ott | | | Calculations - RSPS Pump Hydraulics | Related to the above comment, not clear why -1.5 ft appears to be being used for the suction wet well elevation this doesn't appear to match HGL figure on drawing G-090-01. Is there a lower elevation for pump down that needs to be considered? | Lower elevations for flush down have been considered but were not submitted in calc package. Calculations will show each design scenario (flushing, low wetwell flow, high wetwell flow, and runout) for the 90% calculation submittal. No modifications to the pump will be required. | Crook | 10/15/2019 | Noted | | | | |
| 357 | Chris Ott | | | Control Strategies 4.1 | Noted that parallel operation and control of RSPS 2 and 3 is still being developed. This should be coordinated with hydraulic model as I believe there are requirements to modify levels in order to achieve the desired flow split. | Control elements being added to hydraulic modeling tool to evaluate best control approach. This work will be conducted this fall. | Foley/Youker | 10/10/2019 | Noted | | | | |
| 358 | Chris Ott | | | R--005-14HW3 | Confirm designer has evaluated flow split when screens are running in parallel with non-symmetrical outlet pipe. | CFD modeling performed on screening channels during average flow condition and center channel on-line with outer. Flow split was good. Per VE comments, will review addition of 18"-24" diameter column/bollard near discharge of 108" pipe to break up flow. | Youker | 10/16/2019 | Noted | | | | |
| 359 | Chris Ott | | | R-009-14HW3 | Confirm designer has evaluated flow split at the full range of flows and head cell/pump combinations. | CFD modeling being conducted this fall of the flow through EBOS, flow through Screen Channel, and flow into Grit Basins. EBOS and Screen Channels have preliminary results. Grit Basin influent will be worked on following. GMP Assumption: Assume no scope change. | Youker/Crook | 12/6/2019 | Noted | | | | |
| 360 | Chris Ott | | | 26 19 00 Medium-Voltage Induction Motors 2.02.C | Verify requirement that motor be sized so any point on the load curve does not exceed 85% of the motor nameplate horsepower rating. The proposed VTSH pump curve has brake horsepower exceeding 600 HP, which would trigger at 700+ HP motor per this requirement. Pump spec says motor only sized based on actual operating range of the pump. | Motor specification will be revised to match intent for the pumps. 500 hp has been confirmed with the pump manufacturer to be sufficient for all possible operating conditions. Upper pressures on the pump curve cannot physically occur in operation and thus should not drive motor size and selection. | Michaud, Crook | 10/15/2019 | Noted | | | | |



San José-Santa Clara

Regional Wastewater Facility

File Name:

Project Name:

Document:

QRF Log Backcheck By City (2/1/2020)

New Headworks and Headworks Improvements Project

New Headworks Project - 60% Design Drawings and Specs City Backcheck

Submittal Date:

Reviewer/s:

Project No.:

10/9/2019

City/CIP/O&M

7477/7701

Backcheck Date

2/1/2020

INSTRUCTIONS:

Critical issues may have a significant impact on rework, schedule, cost or risk and require immediate resolution. All comments need to be back-checked and approved by the reviewers.

| Reviewer | | | | | | Originator | | | | Reviewer | Cost |
|----------|-----------------|----------------|------------|-------------------------------------|--|---|------------|----------|-------------------------|----------|------|
| # | Reviewer | Critical Issue | Page Index | Reference Drawing, Specification, | Comments / Questions | Resolution / Response | Resolution | | Back-Checked & Approved | | |
| | | | | | | | Name | Date | \$ | | |
| 361 | Bruce Singleton | | | Section 44 31 00, 1.02 | The BDR lists odor levels but not the method used to determine them, is the method required in Section 44 31 00, 3.04.C.2 consistent. | The method called out in Section 44 31 00 is correct. Analysis by ASTM Standard of Practice E679 with an odor panel presentation rate of 20 liter/min. is the appropriate method for determining odor strength and is consistent with the odor levels called out in the BDR. | Cowden | 10/13/19 | Noted | | |
| 362 | Bruce Singleton | | | Section 44 31 00, 1.05.B | Consider a signed certification from the vessel manufacturer that the materials and construction methods comply with the specs | Manufacturer's Certificate of Compliance is considered to be an appropriate piece of documentation for ensuring the vessel meets the specific requirements called out in the specifications. | Cowden | 10/13/19 | Noted | | |
| 363 | Bruce Singleton | | | Section 44 31 00,1.06.A | Shall the supplier be required to demonstrate experience with the operation of a nonrecirculating system at the design conditions? | Concur. The specification shall be revised to include required experience in non-recirculating systems at design conditions. | Cowden | 10/13/19 | Noted | | |
| 364 | Bruce Singleton | Yes | | Section 44 31 00, D.2.d | 15% is pretty stringent, given that the DP may only be 4 - 5 in.wc. Be sure to discuss a reasonable level that indicates fouling. Section 44 31 00, D..2.d. Otherwise this could be a nuisance. Further somewhere within the equipment documentation should be a discussion | The 15% increase in pressure drop limit is based on a baseline level after acclimation as opposed to initial pressure drop before acclimation. Some biomass will form during the acclimation period. The specification will be clarified accordingly and as suggested. | Cowden | 10/13/19 | Noted | | |
| 365 | Bruce Singleton | | | Section 44 31 00. 1.07.C | Advise adding formal process where the operators submit logs sheets monthly to the manufacturer to assure that the warrantee is not violated by lack of adherence to the O&M requirements in the following paragraphs (C.2.a and D.3.a). Otherwise if there is a problem and the logs are non-existent or sloppy there could be a problem and the warrantees voided. | There is no current process by which the Manufacturer would be able to receive monthly log sheets for verifying ongoing maintenance. This does not exist with BTF Suppliers. In lieu of this, it is recommended that daily/weekly/monthly logs be maintained by plant staff and saved in plant data base. If/when warranty issues arise, the comprehensive logs would provide sufficient evidence of compliance. | Cowden | 10/13/19 | Noted | | |
| 366 | Bruce Singleton | | | Section 44 31 00. 1.07.E.2 | For how long? | The integrity of the vessel is to be warranted for 10 years as stipulated in 1.07, E, 1. | Cowden | 10/13/19 | Noted | | |
| 367 | Bruce Singleton | | | Section 44 31 00, 2.03 A | 90% odor removal will prevail | Noted | Cowden | 10/13/19 | Noted | | |
| 368 | Bruce Singleton | | | Section 44 31 00 2.03.B | Confirm water rate, seems low. Will a booster pump be required if the rate and pressure is insufficient or does it disqualify the manufacturer? | Multiple manufacturers have been consulted such that specified water rate has been confirmed. Jacobs has been told that a booster pump will not be required. However, if a booster pump is determined to be required, it will not disqualify the manufacturer. Although a booster pump is another piece of equipment that must be maintained by plant operations staff, this type of equipment will exhibit low O&M requirements. | Cowden | 10/13/19 | Noted | | |
| 369 | Bruce Singleton | | | Section 44 31 00, 2.04.A.1.d. | Interior grating may be secured with 316 SS clips. | Concur. Specification to be revised to allow for Type 316 SSTL clips. | Cowden | 10/14/19 | Noted | | |
| 370 | Bruce Singleton | Yes | | Section 44 31 00, 2.04.A.1.2.a.5 | Be careful not to mismatch with airflow and access manway flanges with ANSI requirements for irrigation and drain connections. The duct will be ASTM 3982. | Noted. Nozzle requirements spelled out in 2.04, A, 2, a, 5 cover FRP nozzles at vessel side walls. | Cowden | 10/14/19 | Noted | | |
| 371 | Bruce Singleton | | | Section 44 31 00, 2.04.A.1.2.a.6 | Delete Ashland Hetron FR 992. Improved FR resins are: 1)Derakane 510-B-400 2)Cor VE 8401 3)AOC Vipel K022 4)Reichold's Dion Impact 9303-54 | FR 992 is being phased out and replaced by Derakane 510 B-400. Spec to be revised accordingly. | Cowden | 10/14/19 | Noted | | |
| 372 | Bruce Singleton | | | Section 44 31 00, 2.04.A.2.a.8.g | Confirm glass content spec (50 - 80) with manufacturer (Daniel Co) | Glass content confirmed with manufacturers (Daniel, Bioair, ECS). | Cowden | 10/14/19 | Noted | | |
| 373 | Bruce Singleton | | | Section 44 31 00, 2.04.A.2.e.2 | Recommend that a 1/4" PE or Teflon tube be inserted within the PVC sample tubes for sampling purposes. | Section 44 31 00, 2.04, A, 2, e, 2 refers to the permanent sample tubing routed tight to the outside wall of the vessel for serving differential pressure transmitters and manual sampling activities. Section 40 27 00, Process Piping—General stipulates the tubing material. ANy 1/4" PE or Teflon tubing would be temporary and provided by the client or consultant when conducting sampling activities. | Cowden | 10/14/19 | Noted | | |
| 374 | Bruce Singleton | Yes | | Section 44 31 00, 2.04.A.3 | Spec lacks detail and acceptable manufacturers | Access ladder and platform write-up is intentionally included as a performance spec type. Listing of acceptable manufacturers is not considered necessary as the Supplier's standard is acceptable (ladder and platform are a typical feature included in most of their systems). | Cowden | 10/14/19 | Noted | | |
| 375 | Bruce Singleton | | | Section 44 31 00, 2.04.B.8 | Teflon double lipped seal should be preferred | Type 316 SST double lip shaft seal provides the greatest level of protection. However, Teflon or Viton is considered appropriate for this application. In addition, the performance limit requirement of 12 cubic feet per hour at 6 psi will ensure that a proper shaft seal is provided. | Cowden | 10/14/19 | Noted | | |
| 376 | Bruce Singleton | | | Section 44 31 00, 2.04.E | Advise an FRP tank built to the same structural requirements as the vessel with adequate flanges to hold it down during storms, otherwise it may become a projectile. | Polypropylene or HDPE are considered suitable materials of construction for this application. However, spec to be revised to include requirement for hold down lugs or straps for preventing movement under wind or seismic loads. | Cowden | 10/14/19 | Noted | | |
| 377 | Bruce Singleton | | | Section 44 31 00, 2.05.C | This design will be specific to the manufacturer, however advise using motorized ball valves vs. solenoid valves throughout and to specify the valves somewhere. | Solenoid type open/close valve considered appropriate for this application unless client has project specific standard preventing use of solenoid valves which I don't believe is the case. | Cowden | 10/14/19 | Noted | | |
| 378 | Bruce Singleton | Yes | | Section 44 31 00 | No electrical panel description or reference | No electrical panel is being provided intentionally. This is a client preference. Therefore, fan and recirculation pump will be powered directly out of associated MCC. | Cowden | 10/14/19 | Noted | | |
| 379 | Bruce Singleton | | | Section 44 31 00, 3.04. C.4.a.3 | The instrument will log every 60 seconds why not increase the rate vs every hour? And why use Gastek tubes the instruments will provide a display? | The spec allows the use of a Jerome meter, which will require manual measurement. Therefore, once per hour is allowed. The Gastec tubes are necessary to ensure that levels are not too high for use of Jerome unit. | Cowden | 10/14/19 | Noted | | |
| 380 | Bruce Singleton | | | Section 44 31 00, 3.04. C.4 General | In all cases: seems like a description of the equipment required would be reasonable. Recommend duplicates and concurrent inlet and outlet using two sets of equipment. | The current performance testing methodology is considered industry standard. Allowing flexibility for Suppliers is favorable and the reason specific equipment are not mentioned and dictated. The fact that multiple data points (beginning and end of test period) are being collected prevents the need to collect duplicates. | Cowden | 10/14/19 | Noted | | |
| 381 | Bruce Singleton | | | Section 44 31 00, 3.04. C.5.e | Any lab? | There are multiple viable and reputable labs that can be utilized at the Supplier's discretion. This is why a specific lab is not mentioned. | Cowden | 10/14/19 | Noted | | |
| 382 | Bruce Singleton | | | Dwg: N-034-09 | PID represents acclimation mode. Recommend distinguishing acclimation from normal operation | Actually, PID reflects system in its entirety. The recirculation pump and associated piping and accessories are part of the permanent installation and therefore are shown in the PID. | Cowden | 10/14/19 | Noted | | |

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TABLOID REVIEW FORM | HW Project 60 percent QRF_20191018 - City Responses_20200212_R3.xlsx

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INSTRUCTIONS: Critical issues may have a significant impact on rework, schedule, cost or risk and require immediate resolution. All comments need to be back-checked and approved by the reviewers.

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| # | Reviewer | Critical Issue | Page Index | Reference Drawing, Specification, | Comments / Questions | Resolution / Response | Resolution | | Back-Checked & Approved | Cost | |
| | | | | | | | Name | Date | | | |
| 383 | Bruce Singleton | Yes | | Dwg: N-034-09 | PDIT 9717-01. A transmitter will not operate with condensate drop outs as they are intended to remain open until the meter is read. A DPI would work in this case. | Actually, when the operators conduct their rounds each morning, they would manually open the drain valves at the bottom and release any condensate. The remainder of the time the valves are closed. Tubing to be sloped to prevent irrigation water from entering the lower tubing. Drawings to be modified. | Cowden / Foley | 10/16/19 | Noted | | |
| 384 | Bruce Singleton | Yes | | Dwg: N-034-09 | What is 14DMPR9711-01 for? Seems like the fans are running on VFDs. Where is the fan, it is included in the BTF scope. | 14DMPR9711-01 is necessary for isolating the BTF from the future BTF. Yes...fans will be run on VFDs. The fan is located on the previous PID (N-033-09). | Cowden | 10/14/19 | Noted | | |
| 385 | Bruce Singleton | Yes | | Dwg: N-034-09 | Recommend that VLV 9712-01 be a motorized ball valve. | This valve application is well suited to a solenoid valve as will normally be off and will open for a set period of time each hour. In addition, the line size is small. Solenoid valve is normal for this application. Provide direction if motorized valve is required. | Cowden / Foley | 10/16/19 | Noted | | |
| 386 | Bruce Singleton | Yes | | Dwg: N-034-09 | The recirculation system should have a LSL in the sump | As shown on the PID, a LIT is provided for this purpose. | Cowden / Foley | 10/16/19 | Noted | | |
| 387 | Bruce Singleton | | | Dwg: N-034-09 | Show space heater in the Water Panel | Concur. Space heater will be added to Water Panel in PID. | Cowden | 10/14/19 | Noted | | |
| 388 | Bruce Singleton | | | Dwg: N-034-09 | Seems like the flow meter (FET 9711-01) should be after the pump to provide flow measurement for both acclimation and steady state operation. | This is the package system manufacturer's standard design. | Foley | | Noted | | |
| 389 | Bruce Singleton | Yes | | Dwg: N-033-09 | Duct tributaries do not show balancing dampers | Balancing dampers shown back on process PIDs. However, it appears there may be at least one balancing damper missing and will be corrected. | Cowden | 10/14/19 | Noted | | |
| 390 | Bruce Singleton | Yes | | Dwg: N-033-09 | No VFDs indicated as indicated in Section 44 31 00, 2.04.B.1.b | VFDs indicated as "AS" (adjustable speed) at fans. | Cowden | 10/14/19 | Noted | | |
| 391 | Bruce Singleton | Yes | | Dwg: N-033-09 | Show fan drains as trapped, remove ball valves. | If there is sufficient height between fan scroll and concrete pad to place a trap seal then it will be provided. However, it is likely that there will be insufficient space which will dictate that a ball valve be provided for periodic manual opening to release any accumulated moisture/condensate. This will be verified post 60%. | Cowden | 10/14/19 | Disagree that this is a good SOP, condensate in the fan is not preferred. Provide new SOP. | | |
| 392 | Bruce Singleton | Yes | | D-110-14ODO | Seems very complicated, lots of losses and potential fan instability, better check with a fan mfg. Difficult access to the interior portion of the damper flanges. Seems like it could be simplified by dropping into the fans from above and using a common header from the fans to the BTFs. | The current configuration with multiple wyes is believed to provide minimal losses (wyes are better than elbows) while providing the needed functionality. The entire odor control system is proposed to move slightly to the west which will allow a bit more straight duct on the inlet side of the fans. This will improve flow conditions and prevent instability concerns. | Cowden | 10/14/19 | Noted | | |
| 393 | Bruce Singleton | Yes | | D-110-14ODO | Seems like there should be bollards to protect the fans, electrical panel(s) and Water Panel(s) at a minimum, perhaps the entire OC facility. | Bollards will be added. GMP Assumption: Include 52 additional bollards. | Cowden | 12/6/2019 | Noted | \$ 26,000 | |
| 394 | Bruce Singleton | | | D-110-14ODO | Flex connectors not required at the BTF, required before and after the fans | Flex connectors considered favorable at BTF connections for constructability as well as for seismic concerns. In a seismic event the vessel will sway at a different frequency as the connecting ductwork. | Cowden | 10/14/19 | Noted | | |
| 395 | Bruce Singleton | Yes | | D-110-14ODO | Dwg. N-033-09, does not seem to reflect this layout, which dampers are automated, how do the fans cycle? Manually? Do you need the isolation dampers with backdraft dampers? The damper shown at the stack by pass will either have to be automated or relocated so that a chain wheel will work. | There are no automated dampers (no motor operated dampers). Fans can be cycled automatically based on failure condition or timer to ensure equal time of operation(duty and standby modes). This can be accomplished via backdraft dampers at fans. The damper at the stack bypass can be accessed from the platform via the ladder. | Cowden | 10/14/19 | The operation of the stack bypass damper seem like a safety issue. Fan rotation (in the wrong direction) by a stand-by fan that is not sequestered should be considered | | |
| 396 | Bruce Singleton | | | D-110-14ODO | Check labeling | Labeling checked. | Cowden | 10/14/19 | Noted | | |
| 397 | Bruce Singleton | | | D-110-14ODO | What is 4091-151? | Standard detail for stanchion mounted panel. | Cowden | 10/14/19 | Noted | | |
| 398 | Bruce Singleton | | | D-110-14ODO | Distinguish fans that are balancing or isolation | Dampers are all used as either balancing or isolation. There is functionally no difference and specification for FRP damper is suitable for either. | Cowden | 10/14/19 | Isolation dampers are generally bubble tight | | |
| 399 | Bruce Singleton | Yes | | D-301-14ODO | There should be a scaffold at the level of each clear nozzle access manway. Access to the top has little value. If the top access detail is retained be sure to include a skid free surface and 316SS OSHA tie-offs on the lid. | Access is only required at the top of the vessel to provide ability to measure stack velocity for source testing as required. Permanent access to clear nozzle manway not required. | Cowden | 10/14/19 | Noted | | |
| 400 | Bruce Singleton | Yes | | D-301-14ODO | Ladder should be enclosed | Caged ladder no longer legal per OSHA. | Cowden | 10/14/19 | Didn't know that....so you will have to have a harness, seems like a bad idea - Discuss during 60%-90% design | | |
| 401 | Bruce Singleton | | | EP-110-14ODO | Please reference sheet where the electrical legend is located | Electrical legend is in the general sheets with all discipline legends. No change. | Michaud | | Noted | | |
| 402 | Bruce Singleton | Yes | | EP-110-14ODO | No indication of power for damper actuators | Will coordinate with odor control specialist. | Cowden, Michaud | | Noted | | |
| 403 | Bruce Singleton | | | G-004-01 | Add: Isolation Damper: ISDAMP | Dampers are all DMPR. There is no distinction between isolation and balancing. | Cowden | 10/14/19 | Isolation dampers are bubble tight, at least they should be - needs further review | | |
| 404 | Bruce Singleton | | | S-005-01 | pH is the negative Log of the hydrogen ion concentration. Probably not applicable to list it. | ok, will remove it | Williamson | | Noted | | |
| 405 | Bruce Singleton | Yes | | Renderings | General, the ladder on the BTF vessel should be caged and scaffolding at each irrigation level to facilitate visual inspection of the irrigation nozzles and removal if necessary. | As discussed with the City on 10/22 OSHA requires tie-offs regardless if there is a cage or not, but per City direction a cage will be added. Scaffolding at each level is not included in the scope of this project. | Maestri | 10/31/2019 | Noted | | |
| 406 | Bruce Singleton | | | Renderings | It is unclear where the carbon polishing would be located | This is not something that would show up on the renderings. | Maestri | 10/31/2019 | Noted | | |
| 407 | Bruce Singleton | | | Sec: 23 31 16 16.2, 1.04.A.1 | Add isolation dampers | There is no distinction between isolation and balancing dampers. They are intentionally treated identically to provide maximum flexibility. Specification requirements are consistent for both. | Cowden | 10/14/19 | Isolation dampers are bubble tight, at least they should be - needs further review | | |
| 408 | Bruce Singleton | | | Sec: 23 31 16 16.2, 2.01.A.1.a | Delete Ashland Hetron FR 992. Improved FR resins are: 1)Derakane 510-B-400 2)Cor VE 8401 3)AOC Vipel K022 4)Reichold's Dion Impact 9303-54 | Concur. Ashland Hetron FR 992 is being phased out. Specification will be revised accordingly. | Cowden | 10/14/19 | Noted | | |
| 409 | Bruce Singleton | Yes | | Sec: 23 31 16 16.2, 2.01.A.1.e | Not achievable with the resins specified | Intumescent coating specified is able to achieve the smoke rating called out for interior ducting. | Cowden | 10/14/19 | Noted | | |
| 410 | Bruce Singleton | | | Sec: 23 31 16 16.2, 2.01.A.1.f | Delete | Concur. This paragraph will be deleted as suggested.No need to add antimony trioxide for fire retardation. These resins (lets take Cor VE 8401 for instance) are brominated from the resin supplier's plant. The levels of bromine are high enough so that they are classified as class 1 with out antimony. | Cowden | 10/14/19 | Noted | | |

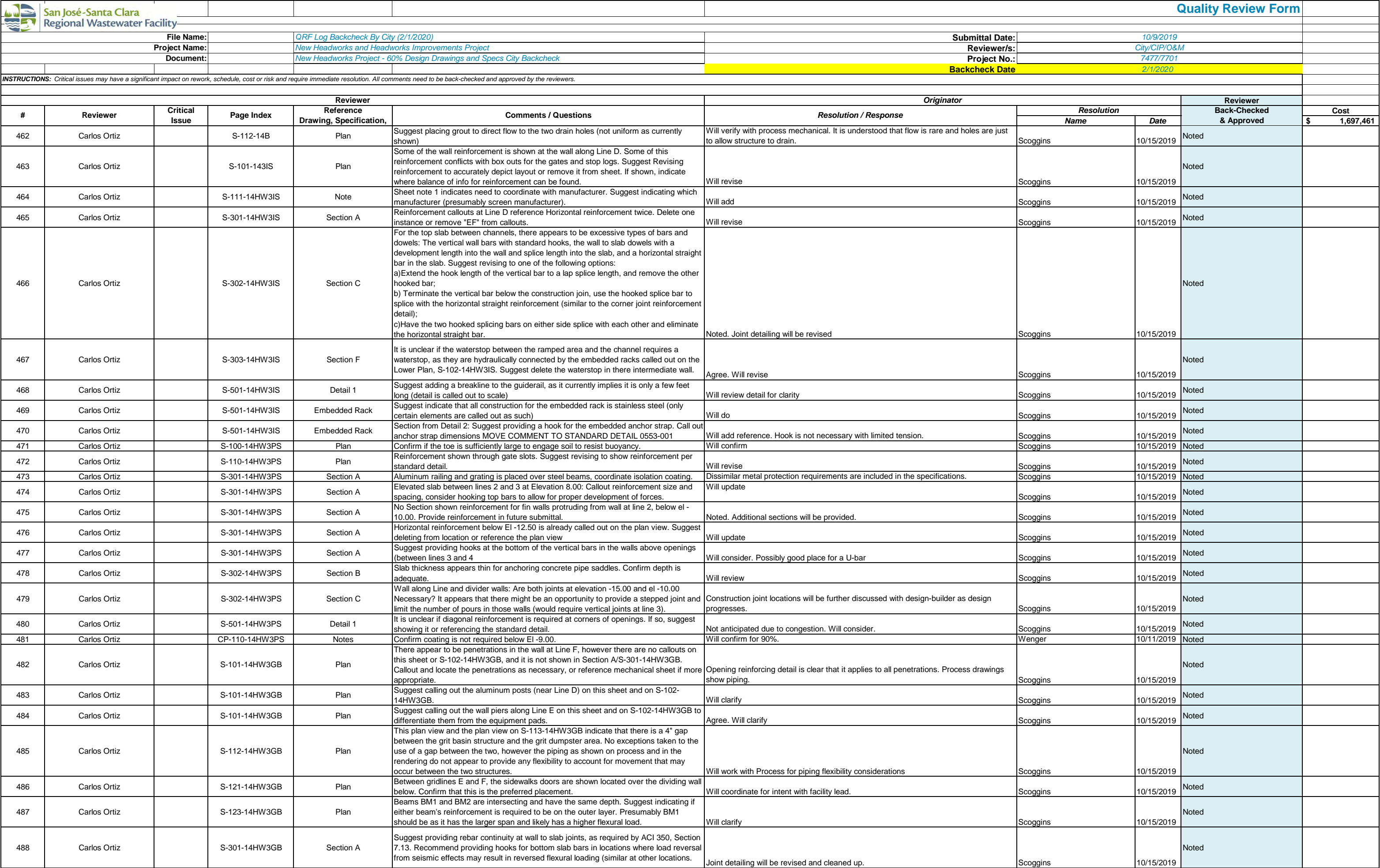


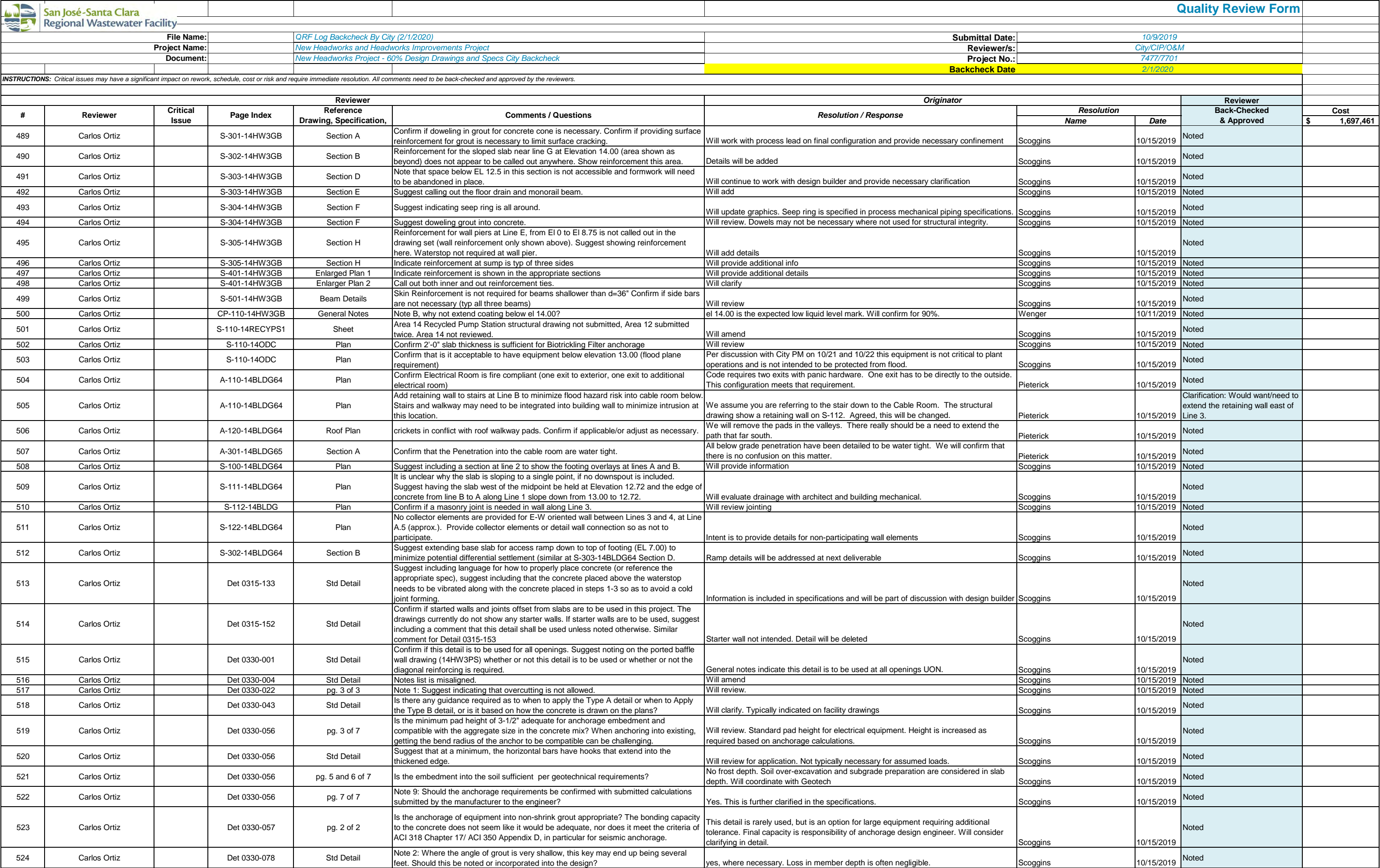
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| Reviewer | | | | | | Originator | | Reviewer | | |
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| # | Reviewer | Critical Issue | Page Index | Reference Drawing, Specification, | Comments / Questions | Resolution / Response | Resolution | | Back-Checked & Approved | Cost |
| | | | | | | | Name | Date | | \$ |
| 411 | Bruce Singleton | Yes | | Sec: 23 31 16 16.2, 2.01.B | Increase duct diameters for filament wound to be: Diameter (in) Thickness (in) Less than 24 .225 24 to 30 .275 36 to 42 .375 48 to 60 .525 66 to 72 .625 | Duct diameters called out are nominal. Inside diameter does not change based on wall thickness due to mandrel filament wound procedure. Thicknesses specified are considered appropriate for meeting minimum structural requirements. | Cowden | 10/14/19 | They seemed light, needs further review at 90%. | |
| 412 | Bruce Singleton | | | Sec: 23 31 16 16.2, 2.01.C.6 | Delete NBS PS 15-69, use ASTM 3982 | According to FRP manufacturers, NBS PS 15-69 is still relevant with regards to flange dimensions.While retired, the NBS PS 15-69 is still widely used as a standard when referencing FRP duct, fittings and flange construction. | Cowden | 10/14/19 | Noted | |
| 413 | Bruce Singleton | | | Sec: 23 31 16 16.2, 2.01.C.12.b | Delete 1/2" use L/360 | Specification shall be revised to limit deflection to 1/2" or L/360, whichever more stringent. | Cowden | 10/14/19 | Noted | |
| 414 | Bruce Singleton | Yes | | Sec: 23 31 16 16.2, 2.02.B | I don't think this is correct, the stacks should be FRP | Concur. This paragraph will be modified accordingly. | Cowden | 10/14/19 | Noted | |
| 415 | Bruce Singleton | | | Sec: 23 31 16 16.2, 2.05.D | Replace NBS PS 15-69 with Astm 3982 | NBS PS 15-69 bolt patterns are still relevant according to FRP manufacturers.While retired, the NBS PS 15-69 is still widely used as a standard when referencing FRP duct, fittings and flange construction. | Cowden | 10/14/19 | Noted | |
| 416 | Bruce Singleton | Yes | | Sec: 23 31 16 16.2, 2.06.D.3 | Delete, Shafts shall be sold 316SS, | Concur. Damper shafts will be changed to solid type 316SST. | Cowden | 10/14/19 | Noted | |
| 417 | Bruce Singleton | Yes | | Sec: 23 31 16 16.2, 2.06.A.6 | Delete, Isolation Dampers shall be bubble tight at 30 in.wc.. | The maximum leakage rate of 5.25 cubic feet per minute per square foot of damper area, at a differential pressure of 30 inches WC is considered acceptable and also allows for more competition (e.g.; Daniel and Swartwout). | Cowden | 10/14/19 | Noted | |
| 418 | Carlos Ortiz | | G-004-01 | Abbreviations | For future submittal, confirm all abbreviations are included in this table (ex, LLH=Long Leg Horizontal, EA=Each) | Agree, will do. | Williamson | 10/15/2019 | Noted | |
| 419 | Carlos Ortiz | | G-010-01 | Civil Legend | Concrete Pavement noted as prestressed. Consider revising to "Concrete Pavement" unless all concrete pavement is prestressed. | Agree, will do. | Chandler | 10/14/2019 | Noted | |
| 420 | Carlos Ortiz | | G-020-01 | | Suggest coordinating and including structural material symbols and structural legend. Current set does not contain structural legend. | Structural legend is not common for our delivery. Will review and coordinate with other discipline general sheets. | Scoggins | 10/15/2019 | Noted | |
| 421 | Carlos Ortiz | | G-010-01 | Arch Legend | Spot elevation marker is very similar to circular opening symbol on sheets. Suggest revising elevation marker to either be rotated and/or fill in two opposing half's of the circle to provide clarity for drawings. | The circle graphic should not appear without the elevation call-out. it is also very small compared to the circular opening callout. Because this graphic has never, to my knowledge, caused confusion we will not be changing the legend. | Pieterick | 10/15/2019 | Noted | |
| 422 | Carlos Ortiz | | G-030-01 | Design Criteria | Design Criteria Note 7: Indicate year/version of ASCE 7 used for loads. Presumably wind loads are per ASCE 7-10. | ASCE 7-10 is version referenced by controlling 2016 CBC for project. | Scoggins | 10/15/2019 | Noted | |
| 423 | Carlos Ortiz | | G-030-01 | Design Criteria | Design Criteria Note 12.E: Confirm/indicate that the dynamic lateral fluid pressure is a "triangular load" and/or if it is impacted by the water table. | Will coordinate with geotechnical and clarify | Scoggins | 10/15/2019 | Noted | |
| 424 | Carlos Ortiz | | G-030-01 | General Information | General Information Note 1: Abbreviations noted are listed as being per ASME Y14.38. Confirm this is appropriate or if referencing a Civil/Structural document is appropriate. | This is the intended reference | Scoggins | 10/15/2019 | Noted | |
| 425 | Carlos Ortiz | | G-030-01 | Inspection and Testing | Inspection and Testing Note 4: Consider revising IBC to CBC. | Will change | Scoggins | 10/15/2019 | Noted | |
| 426 | Carlos Ortiz | | G-030-01 | Foundations | Foundations Note 5: Consider allowing for partial backfill of walls prior to 28-day strength being achieved. Also consider indicating that backfilling shall not occur prior to water tightness testing. | Walls are designed based on 28 day strength which is often achieved within two weeks. No change. No backfill prior to tightness testing is covered elsewhere within specification section 03 30 00. | Scoggins | 10/15/2019 | Noted | |
| 427 | Carlos Ortiz | | General | General Structural | There is an inconsistent application of calling out when/where standard details apply. Suggest either indicating on a sheet once and noting "typ" or calling out more frequently/consistently | Will work toward consistent format as design progresses. | Scoggins | 10/15/2019 | Noted | |
| 428 | Carlos Ortiz | | G-030-01 | Concrete Reinforcing | Concrete Reinforcing Note 13: Table is based on 4000psi concrete, however most structural concrete is 4500psi per Cast in Place Concrete Note 1 on G-031-01. Suggest revising table or providing the conversion for splices and development lengths that can be adjusted for the increased concrete strength. | Lap lengths are conservative for the higher strength. Will edit table to be consistent for project and avoid confusion. | Scoggins | 10/15/2019 | Noted | |
| 429 | Carlos Ortiz | | G-031-01 | CIP Concrete | Cast In Place Concrete Note 5: Confirm that the roughened surface applies to any partial contraction joints, where applicable. Indicate level of roughening required or reference appropriate specification section. | These situations will be addressed on specific details where required | Scoggins | 10/15/2019 | Noted | |
| 430 | Carlos Ortiz | | G-031-01 | Str Stl | Structural Steel and Metal Fabrications Note 1: Consider indicating minimum grade of A36 as Gr 36. | ASTM A36 is consistent with AISC specification | Scoggins | 10/15/2019 | Noted | |
| 431 | Carlos Ortiz | | G-031-01 | Str Stl | Structural Steel and Metal Fabrications Note 2: Confirm that B209 and B308 are the appropriate standards for Aluminum | These are the intended standards | Scoggins | 10/15/2019 | Noted | |
| 432 | Carlos Ortiz | | G-031-01 | Stl Decking | Steel Decking Note 2: This is repeated under "Welding" notes. Suggest deleting note from Steel Decking Notes. | Will consider | Scoggins | 10/15/2019 | Noted | |
| 433 | Carlos Ortiz | | G-031-01 | Stl Decking | Steel Decking Note 6: Welding spacing is very tight. Consider larger welds at bigger spacing. | Will review. This is only for parallel support condition for out-of-plane wall anchorage where shown. | Scoggins | 10/15/2019 | Noted | |
| 434 | Carlos Ortiz | | G-031-01 | Metal Building Systems | Metal Building Systems Note 3: Suggest including ability to add supplemental reinforcement such as hairpin ties, where necessary. | This is based on the anchorage design and is always a method available. Will review metal building specification to clarify | Scoggins | 10/15/2019 | Noted | |
| 435 | Carlos Ortiz | | G-031-01 | Deferred Submittals | Deferred Submittal Requirements do not indicate submitting calculations and/or signed/sealed drawings. Suggest including these requirements (or referencing the appropriate specification). | Requirements are included in specifications. Will review requirements and update in specifications as required | Scoggins | 10/15/2019 | Noted | |
| 436 | Carlos Ortiz | | G-032-01 | General Notes | Statement of Special Inspection Plan Note 5: Table 5 is referenced, but not used/shown. Suggest indicating on one of the special inspection sheets that Table 5 is not used/does not apply (in addition to the note indicating that Wind Resistance Special Inspection does not apply) | Will review. Information provided (also on table) to indicate that this SI requirement was reviewed and not applicable so as to be clear it was not overlooked and omitted. | Scoggins | 10/15/2019 | Noted | |
| 437 | Carlos Ortiz | | G-032-01 | Seismic | Special Inspection for Seismic Resistance Note 2 is repeated under General Note 4. Suggest deleting repetition. | Will consider | Scoggins | 10/15/2019 | Noted | |

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| <div><div>San José-Santa Clara Regional Wastewater Facility</div></div> | | | | | | Quality Review Form | | | | | | | |
| File Name: | | | | | | QRF Log Backcheck By City (2/1/2020) | | Submittal Date: | | 10/9/2019 | | | |
| Project Name: | | | | | | New Headworks and Headworks Improvements Project | | Reviewer/s: | | City/CIP/O&M | | | |
| Document: | | | | | | New Headworks Project - 60% Design Drawings and Specs City Backcheck | | Project No.: | | 7477/7701 | | | |
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| | | | | | | | Name | Date | | | | | |
| 438 | Carlos Ortiz | | G-032-01 | Special Inspection | Special Inspection Notes 1 and 2 indicate that "Special Inspection will..." suggest revising to "Special Inspection shall..." | This is intended to not be directive language as the SI will be provided by Jacobs engineering | Scoggins | 10/15/2019 | Noted | | | | |
| 439 | Carlos Ortiz | | G-032-01 | Special Inspection | Special Inspection Note 4 indicates reports "will be submitted to Jacobs". Suggest revising to "shall be submitted to the Engineer"? Callout similar in other locations on this sheet. | This is intended to not be directive language as the SI will be provided by Jacobs engineering | Scoggins | 10/15/2019 | Noted | | | | |
| 440 | Carlos Ortiz | | G-032-01 | Table | Structural Observation Table: Items 7 and 9 are bracketed. Select appropriate "stage" for 90% set. Similar for Special Inspection tables on following pages | Will do | Scoggins | 10/15/2019 | Noted | | | | |
| 441 | Carlos Ortiz | | G-033-01 | Table 1 | Table indicates inspections for architectural and building mechanical. Suggest revising sheet names to exclude "Structural" or moving inspections of other disciplines to a different sheet. | Will consider | Scoggins | 10/15/2019 | Noted | | | | |
| 442 | Carlos Ortiz | | G-033-01 | Table 2 | Multiple locations: Consider including IAPMO evaluation reports as well as ICC-ES reports. | Will consider | Scoggins | 10/15/2019 | Noted | | | | |
| 443 | Carlos Ortiz | | G-035-01 | Table 4 continued | "Structural Steel Inspection of Seismic Force-Resisting" at top of table is cut off. Revise table. | Will do | Scoggins | 10/15/2019 | Noted | | | | |
| 444 | Carlos Ortiz | | R-002-05 | Electrical Building | Note that scuppers and roof water shedding not depicted. Confirm approach is applicable. | The scuppers have been modeled. When the rendering is updated they should show in the updated rendering. | Pieterick | 10/15/2019 | Noted | | | | |
| 445 | Carlos Ortiz | | R-003-05 | Odor Control | Equipment pad for future odor control tank is depicted in renderings (multiple sheets) but are not shown on the plan view drawings (sheet S-110-14ODO). Revise drawings (renderings or drawings) to be coordinate per design intent. | Will do | Scoggins | 10/15/2019 | Noted | | | | |
| 446 | Carlos Ortiz | | R-004-05 | Piping, general | The structures from Raw Sewage Pumping downstream to the grit removal are separated by premolded joint filler (Sheet S-120-14HW3PS) presumably to isolate each structure's behavior from the other and allow for possible differential settlements. It is unclear if the piping between the structures is designed to accommodate this movement, or any differential movement associated with a seismic event. Confirm design has incorporated this flexibility or adjust piping design to allow for and account for potential movement. | Each pump includes an elastomer bellows connector on its discharge which allows angular, lateral and longitudinal movement. Drawing D-301-14HW3PS shows this. The saddle support shown to the left of the elastomer bellows will be moved to the slab at grade to the left. Further evaluation of differential settlement and seismic movement will be conducted in the next design phase. | Edwards | 10/15/2019 | Noted | | | | |
| 447 | Carlos Ortiz | | R-007 | Piping, general | There are several instances where the piping and/or conduits appear to be in conflict with each other. Are these conflicts being resolved? | Conflicts between new duct banks and/or new piping are being resolved through additional investigation and modeling of existing duct banks and yard piping. Apparent conflicts between existing yard piping and existing duct banks may not be resolved in model. | Chandler | 10/14/2019 | Noted | | | | |
| 448 | Carlos Ortiz | | R-003-014HW3 | Joint | The piping crossing the joint between the Grit Removal area and the Grit Washing area do not appear to account for any flexibility required to accommodate movement at the joint. Suggest providing piping flexibility across the joint. | Will evaluate need for piping flexibility based on the pipe material and input from the structural lead. | Edwards | 10/15/2019 | Noted | | | | |
| 449 | Carlos Ortiz | | R-005-14HW3 | Isolation Gates | Single Isolation Gates are shown downstream of the screening units. Is there a need to also have space for a secondary stop-log or slide gate to have double blackout for maintenance within the channels? | Intent was that if downstream gates required maintenance, flow would be diverted to HW2 by closing the upstream screen isolation gates. Additional stop plate slots are being added to provide isolation for each gate. GMP Assumption: Included in Item No. 230. | Youker | 12/6/2019 | Noted | | | | |
| 450 | Carlos Ortiz | | S-110-1E | Not submitted | Sheet S-110-1E was not submitted. Sheet S-110-11D was submit twice and shown under Area 11E. | There is no drawing S-110-11E in the set. This is correct. Sheet S-110-11D should not have been in the set twice and this will be corrected. | Williamson | 10/15/2019 | Noted | | | | |
| 451 | Carlos Ortiz | | X-110-1P | Details | Details 1 and 2 are referenced from D-120-1P and X-110-1P. The references are clearly shown on D-120-1P, however the only reference for the details on X-110-1P is in the sheet notes. Suggest showing locations where Details apply on X-110-1P or removing X-110-1P reference from the details. | Will review for clarity | Scoggins | 10/15/2019 | Noted | | | | |
| 452 | Carlos Ortiz | | S-110-2D | Section B | The vertical reinforcement in the pipe plug is shown as hooked right above the intermediate layer or reinforcement at the top of the pipe. The hooks as shown does not appear to have sufficient development length, l _{dh} to adequately develop any tension forces for the self weight of the plug. Extend hooks to the top of the layer reinforcement to better develop the reinforcement. | Will do | Scoggins | 10/15/2019 | Noted | | | | |
| 453 | Carlos Ortiz | | S-110-1A | Section A | Provide reinforcement for the next submittal. | Will do | Scoggins | 10/15/2019 | Noted | | | | |
| 454 | Carlos Ortiz | | X-110-1B | Plan | Suggest indicated which specification Section coating system 19A can be found in. | Will do | Scoggins | 10/15/2019 | Noted | | | | |
| 455 | Carlos Ortiz | | S-110-11D | Plans | Suggest providing guidance for how to terminate and cut the walls at a 45 degree angle, as the sharp corner may be prone to breakoff. Doweling in Section B appears to have limited available edge distance on the bottom side, confirm anchorage and edge distance are appropriate. Confirm drilling at an angle in the walls is practical. | Will review details. | Scoggins | 10/15/2019 | Noted | | | | |
| 456 | Carlos Ortiz | | S-110-12RECYP51 | Section A | For openings at bottom of intermediate wall, callout top of opening/bottom of concrete. | Will add | Scoggins | 10/15/2019 | Noted | | | | |
| 457 | Carlos Ortiz | | S-110-12RECYP51 | Section A, typ at various structures and sections | The reinforcement in the top slab is not hooked, and does not appear to be adequately developed at the ends. Suggest hooking bars or using lap splice with the wall reinforcement to maintain structural integrity (per ACI 350-06 Section 7.13) and allowing for flexural loads and load reversal under seismic conditions. This comment applies to various structures and locations | Will review. Top slab not dependent on fixity and joint is not water-holding. Standard hooked dowels from wall may provide required integrity. | Scoggins | 10/15/2019 | Noted | | | | |
| 458 | Carlos Ortiz | | S-110-14A | Section A | The 4" embedment for the post installed dowels attaching the new footing into the existing slab below appears to be fairly shallow. Suggest verifying that anchorage depth and increase as necessary. | To be further reviewed for final design. | Scoggins | 10/15/2019 | Noted | | | | |
| 459 | Carlos Ortiz | | S-110-14A | Section A | Indicate approximate elevations or call out approximate wall height to assist with any subcontractor bidding. | Will provide elevation | Scoggins | 10/15/2019 | Noted | | | | |
| 460 | Carlos Ortiz | | General | General | Indicate/provide standard detail for various pipe supports. | Pipe support design and detailing will be progressed as design proceeds. | Scoggins | 10/15/2019 | Noted | | | | |
| 461 | Carlos Ortiz | | S-111-14B | Section A | Suggest indicating location of reinforcement and waterstop within the 8" wall section. Expansion waterstops generally require a minimum concrete cover/distance to edge of concrete to prevent concrete blowout due to waterstop expansion. | Referenced standard detail 0315-003 provides dimension | Scoggins | 10/15/2019 | Noted | | | | |





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| | | | | | | | Name | Date | | | | | |
| 525 | Carlos Ortiz | | Det 0422-001 | Pg. 1 of 2 | Note that bending and placing #6 bars as horiz in an 8" wall may be impractical at the corners due to the bend radius. Suggest revising reinforcement to use smaller bars more frequently in wall. This will also affect the 180 deg hooks required for Special Reinforced Masonry Shear Wall horizontal bars, as shown in Detail 0422-004, pg. 1 of 3. | Noted. Not intending to use #6 bars in the horizontal | Scoggins | 10/15/2019 | Noted | | | | |
| 526 | Carlos Ortiz | | Det 0422-004 | Pg. 2 of 3 | Suggest indicating that Intermediate Reinf Masonry Shear Walls are not used on this project | Sheet should not have been included in set. Will delete. | Scoggins | 10/15/2019 | Noted | | | | |
| 527 | Carlos Ortiz | | Det 0512-056 | Pg. 1 of 3 | The installation of these anchors does not allow for much tolerance in the horizontal direction perpendicular to the beam. Suggest allowing that at least one of the angle have a horizontal slotted hole on the leg mounted to the concrete surface (typ multiple details) | Will consider | Scoggins | 10/15/2019 | Noted | | | | |
| 528 | Carlos Ortiz | | Det 0512-066 | Std Detail | The two bolts for the anchor plate do not seem sufficient to handle uplift loads from the roof and lateral out of plane loads that need to be distributed from the wall to the diaphragm. Similar comment for Det 0512-067. | Detail not intended to take OOP wall loads. Additional details for OOP support are to be provided. | Scoggins | 10/15/2019 | Noted | | | | |
| 529 | Carlos Ortiz | | Det 0512-066 | Std Detail | Oversized holes in bearing plate may not allow for proper transfer of out of plane forces to diaphragm. Suggest removing oversized hole allowance or including an oversized washer be field welded to the bearing plate after installation. It should be noted that the beam is already being field welded to the bearing plate, therefore placement tolerances for the beam are already being provided. | Not intended for OOP wall support. Additional details will be provided. | Scoggins | 10/15/2019 | Noted | | | | |
| 530 | Carlos Ortiz | | Det 0512-066 | Std Detail | The bolt layout for the bearing plate does not indicate the spacing between anchors. This can lead to instances where one or two of the anchors is in conflict with a masonry unit web between faces. Similar comment for Det 0512-067. | Spacing is defined by dimensions relative to beam flange. Unit web or end shell is cut to allow installation of anchor where in conflict. | Scoggins | 10/15/2019 | Noted | | | | |
| 531 | Carlos Ortiz | | Det 0512-067 | Std Detail | The ledger adjacent to the beams is not continuous. Suggest extending ledger to provide better continuity of diaphragm attachment. | Will review based on diaphragm forces and detailing | Scoggins | 10/15/2019 | Noted | | | | |
| 532 | Carlos Ortiz | | Det 0531-001 | Std Detail | Suggest not allowing J-bolts and requiring headed anchors instead. J-bolts have lower capacity than headed anchors with equivalent embedment depth due to pullout failures. Typ for multiple details. | Agree. Will modify detail to align with headed anchor requirement consistent with specifications | Scoggins | 10/15/2019 | Noted | | | | |
| 533 | Carlos Ortiz | | Det 0551-002 | Std Detail | Is there a maximum permissible height for the platform? The 2" schedule 40 AL pipe columns would appear to be a limiting factor (typical for multiple details). | Detail is only used where shown as evaluated by engineering staff as part of project | Scoggins | 10/15/2019 | Noted | | | | |
| 534 | Carlos Ortiz | | Det 1073-001 | Std Detail | Is this detail sufficient for wind uplift forces? The hanger pipe (Keynote 7) seems to have limited capacity in compression. | Will coordinate with project architect | Scoggins | 10/15/2019 | Noted | | | | |
| 535 | Carlos Ortiz | | Sec 024100 | pg. 7 | Paragraph 3.03. Suggest rewriting from "The use of burning...will not be permitted" to "The use of burning...is not permitted." | Will coordinate with the City standard specs to finalize wording. | Maestri | 11/12/2019 | Noted | | | | |
| 536 | Carlos Ortiz | | Sec 030132 | pg. 2 | Paragraph 1.02. Confirm Defective areas are provided | In section 03 30 00 | Scoggins | 10/15/2019 | Noted | | | | |
| 537 | Carlos Ortiz | | Sec 030132 | pg. 4 | Paragraph 2.01: Provide a bonding requirement for repair mortar (typ for multiple repairs systems. | Bond testing requirements are included in 3.09 | Scoggins | 10/15/2019 | Noted | | | | |
| 538 | Carlos Ortiz | | Sec 030132 | pg. 7 | Paragraph 3.02: If defective concrete is defined in section 033000, confirm if the list of defects needs to be readdressed in this section. Similar comment for Section 030133 Paragraph 3.03.B. | Confirmed | Scoggins | 10/15/2019 | Noted | | | | |
| 539 | Carlos Ortiz | | Sec 032100 | Pg. 3 | Paragraph 2.02.B: Specs require the use of precast concrete supports at all surfaces. Confirm this is preferred to using chairs or chairs with metal tips. | Will review | Scoggins | 10/15/2019 | Noted | | | | |
| 540 | Carlos Ortiz | | Sec 033000 | pg. 14 | Paragraph 3.01.C.10.c: Suggest indicating that concrete placed after waterstop should be vibrated with concrete below waterstop. Coordinate with standard detail. | Included in section 03 15 00 | Scoggins | 10/15/2019 | Noted | | | | |
| 541 | Carlos Ortiz | | Sec 033000 | pg. 19 | Paragraph 3.03.A.1: Suggest allowing for urethane grout injection where structure is exposed to water, as epoxies do not bond well to wet/moist concrete. Similar comment at Section 033000 Paragraph 3.09.F.9.a | Will consider and consult with design builder | Scoggins | 10/15/2019 | Noted | | | | |
| 542 | Carlos Ortiz | | Sec 033000 | pg. 21 | Paragraph 3.04.E.1: Finish W-9 references finish Type W-7, however W-7 finish is not included in the specification. Include Finish W-7 in the specification, or list the relevant information for Type W-7 finish under Type W-9 finish. | Will review finishes | Scoggins | 10/15/2019 | Noted | | | | |
| 543 | Carlos Ortiz | | Sec 033000 | pg. 24 | Paragraph 3.08A: Suggest indicating when/where roofs and laterally supporting elements need to be constructed prior to backfilling against the walls (cantilevered walls vs laterally supported walls) | Included on general notes sheets. Will indicate where different on specific facility drawings where pertinent. | Scoggins | 10/15/2019 | Noted | | | | |
| 544 | Carlos Ortiz | | Sec 050519 | pg. 5 | Paragraph 2.02.E.4.c: Suggest revising Simpson SET-XP to SET-3G, which is more comparable in strength to the Hilti products listed. | Will review products including any recent manufacturer updates as they seem to change every year anymore. | Scoggins | 10/15/2019 | Noted | | | | |
| 545 | Carlos Ortiz | | Sec 055000 | pg. 10 | Paragraph 1.18.A: Confirm all products required to meet OSHA requirements also meet Cal OSHA requirements. Similar at other locations | Will include CalOSHA | Scoggins | 10/15/2019 | Noted | | | | |
| 546 | Carlos Ortiz | | Sec 055000 | pg. 16 | Paragraph 3.07.A: Revise IBC callout to CBC, typical at multiple locations | Will change | Scoggins | 10/15/2019 | Noted | | | | |
| 547 | Carlos Ortiz | | Sec 072616 | pg. 1 | Where are the below grade vapor retarders being used? Suggest indicating where this is required in the drawings. | It was intended to be used under the electrical Building Slab East of 3 where we floor coatings or finishes were applied. We will review to see if this spec section is still needed. | Pieterick | 10/15/2019 | Noted | | | | |
| 548 | Carlos Ortiz | | Sec 107316 | pg. 1 | Confirm that the quoted edition of the CBC is correct, or suggest revising to not callout a version. Coordinate CBC date with drawings. | The 2016 CBC reference in 10 73 16 is the same code that is referenced in our Life Safety Plans on G-21-01. | Pieterick | 10/15/2019 | Noted | | | | |



San José-Santa Clara
Regional Wastewater Facility

Quality Review Form

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QRF Log Backcheck By City (2/1/2020)

New Headworks and Headworks Improvements Project

New Headworks Project - 60% Design Drawings and Specs City Backcheck

Submittal Date:

Reviewer/s:

Project No.:

10/9/2019

City/CIP/O&M

7477/7701

Backcheck Date

2/1/2020

INSTRUCTIONS: Critical issues may have a significant impact on rework, schedule, cost or risk and require immediate resolution. All comments need to be back-checked and approved by the reviewers.


| Reviewer | | | | | | Originator | | | Resolution | | Reviewer Back-Checked & Approved | Cost \$ 1,697,461 |
|----------|-----------------|------------------|------------|--|---|---|--|----------------|------------|--|--|----------------------|
| # | Reviewer | Critical Issue | Page Index | Reference Drawing, Specification, | Comments / Questions | Resolution / Response | | Name | Date | | | |
| 549 | Ruchita Acharya | NPDES Compliance | - | 60 pct. Design Deliverable_Vol4of5_Drawing.pdf (Page 83, GRADING AREA 4 PLAN 8, Drawing no: CG-108-05) In this drawing, top left corner(pg. 83): shows map of surrounding roadway of newly built facility. The note in the drawing indicated " match existing grades around Facility to ensure drainage to the south". There is no stormwater pump or stormwater catchment basin shown in the drawing. | The stormwater management on the project site needs to be in compliance with applicable laws and regulations relating to prevention or abatement of water pollution. There are three ways to comply: 1) Re-directing flow to Headworks so that project can be covered in RWF's NPDES permit; 2) Connect this project with city-wide storm drain system so that project can be covered under Municipal Regional Stormwater NPDES Permit (MRP); 3) Obtain coverage under the Statewide General Permit for Storm Water Discharges Associated with Industrial Activities aka Industrial General Permit (Note: the Industrial General Permit is different than an Industrial Wastewater Permit, which involves industrial process water discharges to the City's sanitary sewer system.) | Per the 10/22 meeting with the City, an additional storm drain pump station will be added to pick up flow from EBOS, ferric and any other locations where impervious material is being added that is not currently draining to recycle pump station 3. GMP Assumption: Included in Item No. Supp 01. | | Chandler | 12/6/2019 | Noted | | |
| 550 | DRW | - | - | N-001-09 | Compartment C and the Interceptor Junction Structure are missing an existing 10" Spreckles Force Main connection according to drawing G-080-01 and D-110-14A. | This will be corrected in the 90% review set. | | Foley | 10/15/2019 | Noted | | |
| 551 | DRW | - | - | N-002-09 | Is there an actual hardwired input missing for the flow indication at the plant DCS or is this supposed to indicate a software link? | It is a software link. The conversion from level over the weir to flow will be done in the DCS. | | Foley | 10/15/2019 | Noted | | |
| 552 | DRW | - | - | N-003-09 | The DCU number at the top of the sheet should be 14DCU64. | Signals are going to Headworks 2 DCU and not Headworks 3 DCU. | | Foley | 10/15/2019 | Noted | | |
| 553 | DRW | - | - | N-003-09 | The valve controls on this sheet are shown with a single asterisk which according to the symbols and abbreviations sheet is part of a package system, but other drawings such as N-001-09 does not show the asterisk. | Asterisk will be removed. They are an accessory to the valve, not part of a package system. | | Foley | 10/15/2019 | Noted | | |
| 554 | DRW | - | - | N-008-09/D-501-14HW3IS | Coordinate the Screenings Compactor Units as the P & ID shows a 6" SCR/D pipe from the units but the mechanical Screenings Compactor Detail drawing show a 4" SCR/D pipe. | P&ID has been updated to reflect a 4-inch drain. | | Foley | 10/15/2019 | Noted | | |
| 555 | DRW | - | - | N-009-09 | Electrical drawing E-705-08 show a Start Forward and an Start Reverse from the DCS the P & ID only shows a Start command. | This will be corrected in the 90% review set. | | Foley | 10/15/2019 | Noted | | |
| 556 | DRW | - | - | N-012-09/D502-14HW3PS | The piping arrangement for the seal water system should be coordinated with the mechanical drawing as the drawings currently do not match. | This will be coordinated in the 90% review set. | | Foley | 10/15/2019 | Noted | | |
| 557 | DRW | - | - | N-022/23/24/25/26/27/30/33/34/38-09 | The commands for OPEN, CLOSE, START and STOP at the DCS should follow the RWF tagging standard No. 4 in Automation Requirement AG_RWF_007 Appendix G P & ID Tagging Abbreviations Table. | DCS software tagging should be in conformance with AG-RWF-004, Table 3.3-2. | | Foley | 10/15/2019 | Noted | | |
| 558 | DRW | - | - | N-022/23/24/25/26/27-09 | The hp for the stirrer is shown as 0.75hp is specification 44 42 41 Supplement 1, not 1hp as shown on the P & ID's. | The specification was written for 2 manufacturers (one w/0.75, the other with 1). We received proposals, and were able to update the PID which is used for electrical design. Spec was not updated. Will update for final. | | Youker | 10/16/2019 | Noted | | |
| 559 | DRW | - | - | N-033-09 | The description at the DCS level for AI 9507-02 states Speed Indication this should be Combustible Gas/LEL | This will be corrected in the 90% review set. | | Foley | 10/15/2019 | Noted | | |
| 560 | DRW | - | - | N-033-09 | Coordinate the FA piping around the condensate MH as the ductwork sizes do not match what is shown on drawings D101-14HW3IS, D110-14ODO and D501-14ODO | D501-14ODO, Section A will be corrected by revising the 18" FA to 30" FA to match other drawings. In addition, N-033-09 will be corrected to include 30" FA and 42" FA callouts around the condensate MH. | | Cowden | 10/14/19 | Noted | | |
| 561 | DRW | - | - | N-037-09/E-702-08 | Electrical control diagram shows both a high temp and moisture hardwired signal to the DCU but the P & ID does not show these signals. | Will coordinate with I&C. | | Michaud, Foley | 10/15/2019 | Noted | | |
| 562 | DRW | - | - | N-037-09 | The speed control signals at the DCU should be outputs not inputs as shown. | This will be corrected in the 90% review set. | | Foley | 10/15/2019 | Noted | | |
| 563 | DRW | - | - | N-037-09/D-110-12RECYPS1 | Each of the submersible pumps has a 14" x 10" reducer according to D-110-12RECYPS1 which are not shown on the P & ID. | Will add the reducers on the P&ID. | | Edwards | 10/15/2019 | Noted | | |
| 564 | DRW | - | - | E-702-08 | Most of the relay contact numbers shown to the DCS do not match the relay numbers shown on the rest of the diagram | Will correct discrepancies | | Michaud | 10/15/2019 | Noted | | |
| 565 | DRW | - | - | 40 90 00, Control Panel Schedule | The DCS panel numbers should include a unique 4 digit equipment number (9500 - 9999) and the DCU number should be 64 | This will be added to 90% review set. DCU number changed from DCU-14 to DCU-50 | | Foley | 10/15/2019 | Noted | | |
| 566 | Sean Barker | - | - | E-700-08 | If the VFD disconnect switch is opened up while the motor is running, the IGBT components may be damaged. Will control relays CR6, CR8 and CR1 operate fast enough to shut down the drive before damage is done to the drive? | Do you have a recommendation? It is not standard operational practice to open a disconnect while the motor is running on a drive. Electrical Design Guideline only states to provide auxiliary disconnect contacts to the drive to shut it down to prevent damage, I can contact a couple manufacturers and get their thoughts. | | Michaud | 10/15/2019 | Needs discussion with City electrical staff. | | |
| 567 | Sean Barker | - | - | E-704-08 | Control relay CR9 does not appear to have any contacts in this diagram. What does this relay do? | Will coordinate with I&C on function desire for speed switch | | Michaud | 10/15/2019 | Noted | | |
| 568 | Sean Barker | - | - | E-110-12RECYP1 | The control circuit schedule lists 10 conductors going from the VFD to the control station of each pump. Motor control diagram V3 only shows 5 wires going to the control station. What is the purpose of the other 5 wires? | Six wires are shown on the control diagram. But if the contractor doesn't common the input voltage to the control station that could increase the number of conductors. For now they are just spare, but can be reduced. | | Michaud | 10/15/2019 | Noted | | |
| 569 | Sean Barker | - | - | EF-110-14HW3IS | There should be a detail showing how the outlets in between the sludge screening bins will be mounted and there exact location. In this drawing they appear to be mounted in the floor. | They will be stanchion. Will provide detail. | | Michaud | 10/15/2019 | Noted | | |
| 570 | Sean Barker | - | - | EP-111-14HW3IS | The control stations for the influent and effluent gates are mis-labeled. | Will correct | | Michaud | 10/15/2019 | Noted | | |

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TABLEID REVIEW FORM | HW Project 60 percent QRF_20191018 - City Responses_20200212_R3.xlsx

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San José-Santa Clara

Regional Wastewater Facility

File Name:

QRF Log Backcheck By City (2/1/2020)

Submittal Date:

10/9/2019

Project Name:

New Headworks and Headworks Improvements Project

Reviewer/s:

City/CIP/O&M

Document:

New Headworks Project - 60% Design Drawings and Specs City Backcheck

Project No.:

7477/7701

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INSTRUCTIONS:

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|-----|---------------|----------------|------------|--|---|---|------------------------------|------------|---|--------------|
| | | | | | | | Name | Date | | \$ 1,697,461 |
| 571 | Sean Barker | - | - | EP-111-14HW3IS | Detail 2605-005 lists the disconnect mounting pedestal as hot-dip galvanized with galvanized mounting hardware. The Area Classification and Materials Selection lists all mounting hardware and supports as stainless steel for this area. All the conduit in the area is PVC coated rigid galvanized steal for protection from the corrosive environment. The pedestals should be made from a material that will give them the same protection as the equipment that is mounted on them. | Will coordinate to match the area classification table. | Michaud | 10/15/2019 | Noted | |
| 572 | Sean Barker | - | - | EP-112-14HW3IS | There are no disconnect switches shown for any of the valves on this page. Will the disconnects be part of the central control station that is listed in keynote 1? | Will coordinate with process and I&C on the desire for a central control station and disconnect panel. | Michaud, Foley, Youker | 10/15/2019 | Noted | |
| 573 | Sean Barker | - | - | EF-110-14HW3PS | There will not be a safe way to work on the lights mounted on 15 foot poles next to the hand railings of this elevated area. The poles will need to be able to fold down or they need to be moved away from the railing. | Per meeting on 10/16/19 will change these light poles at the platform of the pumps to hinged poles. All other poles on site will remain non-hinged. GMP Assumption: Include scope change. | Michaud | 12/6/2019 | Noted | \$ 3,000 |
| 574 | Sean Barker | - | - | E-105-8 | The manhole next to the Mid Point Chlorination Building for the fiber optic cable that runs from the Filter Building to TPS is missing | Will add. | Michaud | 10/15/2019 | Noted | |
| 575 | Sean Barker | - | - | E-708-08 | Add a contact from the TDR relay to the DCU | Will review, but generally you don't want the TDR but some other status. | Michaud | 10/15/2019 | Noted | |
| 576 | Sean Barker | - | - | E-708-08 and E-707-08 | The TDR relay should shut down the motor and send an alarm to the DCU | Will correct as needed. | Michaud | 10/15/2019 | Noted | |
| 577 | Sean Barker | - | - | E-708-08 | The M contact that energizes the TDR relay should be normally open. | Will correct as needed. | Michaud | 10/15/2019 | Noted | |
| 578 | Sean Barker | - | - | EP-112-14BLDG64 | Is there enough room in the electric room to remove 14VFD9655-01 or 14VFD9655-02 if one of them has a catastrophic failure and needs to be replace. | Yes, aisle ways are a minimum 5' wide due to working clearances and drives are 4' deep. They can not, however be rotated 90deg and moved. | Michaud | 10/15/2019 | Noted | |
| 579 | Sean Barker | - | - | PM-301-14BLDG64 | A section of railing at the north west side of the electrical building should be removable so that large items, such as circuit breakers, can be lifted with a forklift | Will change. | Michaud, Scoggins, Pieterick | 10/15/2019 | Noted | |
| 580 | Sean Barker | - | - | EF-120-14HW3GB | Detail 2605-003 lists the disconnect mounting plate as hot-dip galvanized with galvanized mounting hardware. The Area Classification and Materials Selection lists all mounting hardware and supports as stainless steel for this area. All the conduit in the area is PVC coated rigid galvanized steal for protection from the corrosive environment and the disconnects and mounting hardware are stainless steal. The pedestals should be made from a material that will give them the same protection as the equipment that is mounted on them. | Will revise detail to refer to Area Classification Table. | Michaud | 10/15/2019 | Noted | |
| 581 | Sean Barker | - | - | EP-123-14HW3GB | The disconnects should be labeled on this sheet. It is really difficult to determine which disconnect goes to each device. | Will label | Michaud | 10/15/2019 | Noted | |
| 582 | Sean Barker | - | - | EP-123-14HW3GB | The disconnects for valves 14VLV9604-01, -02 and -03 are missing | Due to working clearance issues the fused disconnects for those valves are located on the South handrail with the other disconnects for the grit washer/stirrers. | Michaud | 10/15/2019 | Noted | |
| 583 | Sean Barker | - | - | | The conductor count for the valves appears to be too much. As an example, the gate valves list 18 conductors for 7 DI and 2 DO. It would seem that only 11 conductors are needed for these signals. Please confirm that all the conductor counts are correct. | Conductor count is based on 2 conductors per signal and no "commoning". | Michaud | 10/15/2019 | Noted | |
| 584 | Sean Barker | - | - | EP-120-14HW3GB | The light mounted above the stairway cannot be serviced without setting up scaffolding. Please move to a location that will allow access to the light without setting up scaffolding. | Will move to the North side of the stair landing | Michaud | 10/15/2019 | Noted | |
| 585 | Sean Barker | - | - | | The safety officer for the Facility should study the 3D rendering and determine if all the lights can be accessed safely | Let me know of any requested changes. | Michaud | 10/15/2019 | Needs discussion with City electrical staff and Plant Safety. | |
| 586 | Sean Barker | - | - | EP-110-14ODO | Is one light enough to illuminate this area? If odor control is required to run 24 hours a day, operations and maintenance personnel may have to work on this equipment at night. | there is some luminance from the nearby pump station, will rerun model with facilities adjacent to each other to confirm. | Michaud | 10/15/2019 | Noted | |
| 587 | Sean Barker | - | - | EP-112-14BLDG64 | Detail 2605-700 is for cable tray installation. There should not be any cable tray under the MCC. This detail should be removed. | Will remove | Michaud | 10/15/2019 | Noted | |
| 588 | Sean Barker | - | - | EP-112-14BLDG64 | The fire alarm panel should not be located in the battery room. Personnel who service or monitor the fire alarm panel are usually are not trained to work around battery systems operating at 125vdc and do not wear the PPE required for working in a battery room. | Electrical PPE should only be required when working on equipment. Other option is to locate in the electrical room because there is no room in the control room. But that isn't ideal either. | Michaud | 10/15/2019 | Noted | |
| 589 | Sean Barker | - | - | E-601-14BLDG64 Keynote 3 | The keynote states all power meters shall receive voltage measurements from the line side PTS of their respective bus. If the line to the power meters respective bus is shut down and the entire bus is fed from the other line, the power meters on the bus with the dead line will not receive any voltage measurements. The voltage measurements for the feeder breakers should come from the bus PTS for their respective bus instead. This way the meters will always have a voltage reading if their bus has voltage on it. The power meters for the main breakers should be connected to the line PTS so that they can give indication that the line is live or dead. | Will revise language to be for the bus PTs | Michaud | 10/15/2019 | Noted | |
| 590 | Sean Barker | - | - | E-601-14BLDG64 | All the bus differential CTS should be 1200:5 | Will revise | Michaud | 10/15/2019 | Noted | |
| 591 | Sean Barker | - | - | E-601-14BLDG64 | There should be a sync-check relay for the tie breaker | Will add as well as to specification 26 09 13 | Michaud | 10/15/2019 | Noted | |
| 592 | Sean Barker | - | - | E-603-14BLDG64 | The UPS should be cord and plug connected on both the line and load sides. | Will correct | Michaud | 10/15/2019 | Noted | |
| 593 | Sean Barker | - | - | E-608-14BLDG64 | The AC connections diagram is missing the voltage input from the bus side PTS | Will add | Michaud | 10/15/2019 | Noted | |
| 594 | Sean Barker | - | - | E-608-14BLDG64 | The protection relay is labeled BE1-851. A BE1-851 relay only has current connections not voltage. Is this the correct relay? | No, will correct to match specification and previous requests. | Michaud | 10/15/2019 | Noted | |
| 595 | Sean Barker | - | - | Detail 2605-101 | The conduit sleeve in the slab should extend up to the junction box to provide protection for the cord | Detail is intended for classified spaces and providing an air gap versus a seal off (to allow for ease of cable removal). Will revise detail to include seal offs and conduit extended up to enclosure. | Michaud | 10/15/2019 | Ensure that all exposed cables in JBs, manholes, handholes, vaults, or cable trays are protected (firetaped). | |
| 596 | Sean Barker | - | - | Specification 26 05 05 2.07 B 2 | Self laminating wire markers should not be used. Overtime the lamination turns yellow and the wire marker becomes difficult to read. | Are you referring to the heat bone markers? Can remove. | Michaud | 10/15/2019 | Noted | |
| 597 | Carlos Garcia | - | - | PIDs | See markup (pdf) | See Bluebeam Session for Responses | Foley | 10/15/2019 | Noted | |
| 598 | Jerry Au | - | - | Network Block Diagram | See markup (jpeg) | See Bluebeam Session for Responses | Foley | 10/15/2019 | Noted | |

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|  | | San José-Santa Clara Regional Wastewater Facility | | | | Quality Review Form | | | | |
| File Name: | | QRF Log Backcheck By City (2/1/2020) | | | | Submittal Date: | | 10/9/2019 | | |
| Project Name: | | New Headworks and Headworks Improvements Project | | | | Reviewer/s: | | City/CIP/O&M | | |
| Document: | | New Headworks Project - 60% Design Drawings and Specs City Backcheck | | | | Project No.: | | 7477/7701 | | |
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| | | | | | | | Name | Date | | \$ 1,697,461 |
| 599 | Mike Jones | - | - | N-008-09 / sheet 146 | Maintain consistency in naming and searching: existing Plant drive units are called DRU, drawing uses SCP - use DRU. | Tag number will be changed to DRU in 90% review set | Foley | 10/15/2019 | Some tag number are still different, will need adjustment. | |
| 600 | Mike Jones | - | - | N-008-09 / sheet 147 | Maintain consistency in naming: existing grit classifiers use CSFR, drawing uses GSFR | GSFR is based on CIP Program Automation Guidelines, Appendix 04 "Asset Tagging Convention". No change planned. | Youker | 10/16/2019 | Noted | |
| 601 | Mike Jones | - | - | N-008-09 / sheet 148 | Unnamed equipment: we identify basket strainers as they usually require periodic cleaning (existing strainers use FLTR) - issue asset tag | Can't find basket strainers referred to on N-008-09 and N-009-09 | Foley | 10/16/2019 | Needs further clarification during the 60%-90% design phase | |
| 602 | Mike Jones | - | - | N-008-09 / sheet 149 | Maintain consistency in naming: existing fire alarm control panels use LCP, drawing uses FACP | Panel number will be changed to LCP to conform to plant standards | Foley / Sackinger | 10/16/2019 | Noted | |
| 603 | Mike Jones | - | - | General | Review and conform to SOP AM.100. | Yes, this is the plan. City is providing updated Div-01 for CMMS requirements that will be compatible with SOP AM 100. Please provide current copy of this SOP. | Foley, Ryan | 10/16/2019 | Provided. | |
| 604 | Akilan Ananth | - | - | General | Add the building fire alarm control panel (as fire suppression detection control panel, where provided) to the master specification list. | The specification 28 31 00; Fire Detection and Alarm is included in Specification Volume 2 and is listed in the index to the specifications. Since there is no fire suppression systems on this project, the fire alarm control panel will not be referred to as a "fire suppression detection control panel" to avoid the obvious confusion it would create. | Forester | 10/17/2019 | City: Add to list of discussion items with fire department. | |
| 605 | Craig Wilcox | - | - | Detail 3213-240 | Pavement Type C3 correct cover from 1/2" to 2" | Agree, will correct. | Chandler | 10/14/2019 | Noted | |
| 606 | Craig Wilcox | - | - | G-031-01 | Cast in Place Concrete Note 1 recommend using Type V cement in the concrete mixes (or Type II and V dual certified) due to both the corrosive nature of the soils and the liquid contents to be contained/conveyed. | Type V is not required for exposure conditions | Scoggins | 10/17/2019 | Needs further review as design progresses | |
| 607 | Craig Wilcox | - | - | G-031-01 | Concrete Unit Masonry Note 18 recommend using #5 @ 32" OC as more practical than #6 @ 48" OC in 8" CMU walls. | Preference noted. Reinforcing specific to structure will be shown on the facility drawings. | Scoggins | 10/17/2019 | Noted | |
| 608 | Craig Wilcox | - | - | G-031-01 | Deferred submittals add Specification 10 73 16, Manufactured Aluminum Canopies. | Will add. | Scoggins | 10/17/2019 | Noted | |
| 609 | Craig Wilcox | - | - | Specification 10 73 16 | Change specification references from IBC to CBC for compliance with II Project Design Criteria | The IBC reference on page 2 is specifically identifying the International Code Council and International Building Code. There is separate CBC reference for the California Building Code. This IBC reference will remain. | Pietrick | 10/17/2019 | Noted | |
| 610 | Craig Wilcox | - | - | G-032-01 | Structural Observation Table Item 7, Remove brackets [] from Stage descriptions. | Will do | Scoggins | 10/17/2019 | Noted | |
| 611 | Craig Wilcox | - | - | G-035-01 | Remove Table 5 if not used. | Table will be left in to help identify that wind requirements were not overlooked, but identified that they are not required. | Scoggins | 10/17/2019 | Noted | |
| 612 | Craig Wilcox | Critical Issue | - | R-002-14HW3, CG-301-05, C-100-14B | Civil and Geotechnical evaluation of emergency overflow basin side slope stability for temporary excavated condition and permanent improved condition for all loading conditions (including seismic and potential for lateral spreading) that can effect the new improvements and the basin slope. | Temporary construction slope conditions will be designed and developed by the builder and reviewed by the Engineer in the course of submittal reviews. It is the intent of the Engineer based on scope and discussions with City not to change the slope per the original design; however we will run stability analyses to confirm concrete lining the EB does not change acceptable stability conditions. | Davis/Chandler | 10/16/19 | Needs further review as design progresses | |
| 613 | Craig Wilcox | Critical Issue | - | Section A, S-110-11D | Delineate need for shoring of the existing structure to maintain full support and prevent undermining and detrimental settlement. | Shoring requirements will be defined as design progresses | Scoggins | 10/17/2019 | Noted | |
| 614 | Craig Wilcox | Critical Issue | - | Section A, S-110-11D | Add notation for the Contractor to monitor existing structures with regular surveying during excavation, shoring and construction to alert the contractor of any detrimental movement. | Will work with design builder and geotechnical engineer to define | Scoggins | 10/17/2019 | Noted | |
| 615 | Craig Wilcox | Critical Issue | - | Section B on S-110-11D Section A on S-301-11, S-501-1P, Section A on S-110-1A, Section A on S-110-1B, Section A on S-110-12HW2, | Place 2 rows of adhesive dowels (one each side) of the green streak hydrophilic water stops per the manufacturers requirements to prevent concrete pop-out when the water stop expands. | Manufacturer requirements will be heeded. Two rows of reinforcing are not required per Sika-Greenstreak; Hydrotite product installation data. | Scoggins | 10/17/2019 | Needs further review as design progresses | |
| 616 | Craig Wilcox | Critical Issue | - | D-120-11E | Relocate the large saddle pipe support to vertically align over the centerline of the existing wall so as not to overstress or deflect the existing conduit reinforced concrete roof. | Will do. | White | 10/17/2019 | Noted | |
| 617 | Craig Wilcox | Critical Issue | - | Section A, S-110-2D | Include reinforcing steel in and around the new p[pipe collar to prevent brittle cracking, leaking and failure. | Information is included in pipe collar standard detail. Will add reference. | Scoggins | 10/17/2019 | Noted | |
| 618 | Craig Wilcox | Critical Issue | - | Section B, S-110-2D | To comply with ACI 318 and 350 and indicate along the 3 foot wide surfaces to have reinforcing steel each way. | Not clear on comment, but appears related to the side surfaces of the slab/plug. ACI is not interpreted to require reinforcing on surfaces not in flexure. | Scoggins | 10/17/2019 | Needs further review as design progresses | |
| 619 | Craig Wilcox | Critical Issue | - | Section A, S-110-1A | To comply with ACI 318 and 350 indicate in the new concrete to have reinforcing steel each way. | Intent is reinforced concrete. Details to be added as design progresses | Scoggins | 10/17/2019 | Noted | |
| 620 | Craig Wilcox | | - | Sheet 189, S-110-11D | This sheet is a duplicate of sheet 173. Remove if the same sheet is exact duplicate. | Will do | Scoggins | 10/17/2019 | Noted | |
| 621 | Craig Wilcox | | - | Section A on S-110-12HW2, | Recommend standard 90 degree hooks on each end of #6 bars to develop the reinforcing steel. | Will review detailing | Scoggins | 10/17/2019 | Noted | |



San José-Santa Clara

Regional Wastewater Facility

File Name:

QRF Log Backcheck By City (2/1/2020)

Submittal Date:

10/9/2019

Project Name:

New Headworks and Headworks Improvements Project

Reviewer/s:

City/CIP/O&M

Document:

New Headworks Project - 60% Design Drawings and Specs City Backcheck

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| | | | | | | | Name | Date | \$ 1,697,461 | |
| 622 | Craig Wilcox | Critical Issue | - | Section A on S-110-12RECYP51, S-112-14B, Sections B and C on S-302-14HW3IS, Section A on S-301-14HW3PS, Section C on S-302-14HW3PS, Section A on S-301-14HW3GB, Section B and C on S-302-14HW3GB, Section D and E on S-303-14HW3GB, Section F and G on S-304-14HW3GB, Section K on S-305-14HW3GB, Section A on S-301-14BLDG64, Section B on S-302-14BLDG64, | Wall base construction joint change referenced detail change from 0315-154 to 0330-005 and show hook dowels inward at the base of the walls for fixity and moment resistance. | Will review detailing. | Scoggins | 10/17/2019 | Noted | |
| 623 | Craig Wilcox | Critical Issue | - | Section A on S-110-14A | Verify with calculations that 4 inch depth of embedment is adequate for demand moment/tension/shear and update as needed. | Will review | Scoggins | 10/17/2019 | Noted | |
| 624 | Craig Wilcox | Critical Issue | - | Section A and B on C-301-14B | Recommend adding construction joints at 20 feet on center each way and expansion joints at 100 feet on center each way to control cracking of these large placements of concrete slab in accordance with ACI 350 requirements. All construction joints and expansion joints are recommended to have water stops to prevent contaminated water from leaking into the soil beneath. | Construction and expansion joints will be provided with 90% design | Chandler/Scoggins | 10/14/2019 | Noted | |
| 625 | Craig Wilcox | Critical Issue | - | Section A and B on C-301-14B | Recommend adding fiber mesh to the concrete for the emergency basin to prevent and arrest cracking. | Will consider, but is relative to joint spacing and cost difference in more joints versus added fiber. | Scoggins | 10/17/2019 | Needs further review as design progresses | |
| 626 | Craig Wilcox | Critical Issue | - | Section A and B on C-301-14B, C-501-14B | Groundwater buoyancy analysis is needed to determine the thickness and reinforcing of the slab to either resist the buoyant forces or add Pressure relief valves to prevent slab heaving from buoyancy. | Slab joints are not watertight. | Scoggins | 10/17/2019 | Noted | |
| 627 | Craig Wilcox | Critical Issue | - | Section A and B on C-301-14B | 4 inch slab appears inadequate to resist any buoyancy and heavy truck traffic. Slab may need to be much thicker with 2 curtains of reinforcing steel where trucks, loaders and buoyancy are present. | Calculations for loading will be provided at 90%. Thinner than typical sections are expected to perform adequately due to the low expected truck and loader frequency of use (expected to be 3-4 times per year). | Chandler/Scoggins | 10/14/2019 | Needs further review as design progresses | |
| 628 | Craig Wilcox | Critical Issue | - | Section A on S-301-14HW3IS | At notch in bottom slab for screen the top reinforcing steel needs to have fully developed #8 straight bars each side of the notch just below the top of concrete at the notch area that are then fully developed with the #8 bars that are interrupted. | Detailing will be better defined | Scoggins | 10/17/2019 | Noted | |
| 629 | Craig Wilcox | Critical Issue | - | Sections B and C on S-302-14HW3IS | Do #5 @12" OC horiz in the walls meet ACI 350 reinforcing steel minimum requirements for environmental structures? | No. Will revise | Scoggins | 10/17/2019 | Noted | |
| 630 | Craig Wilcox | | - | Section D on S-302-14HW3IS | Recommend eliminating horizontal construction joint at EL 5.83 to eliminate WS , small concrete placement and leakage potential. | Joints will be coordinated with design builder for constructability. | Scoggins | 10/17/2019 | Noted | |
| 631 | Craig Wilcox | | - | Section E on S-303-14HW3IS | Add reinforcing steel designations for the foundation concrete. | Will be provided | Scoggins | 10/17/2019 | Noted | |
| 632 | Craig Wilcox | | - | S-120-14HW3PS | Suggest platform framing between grid lines 2 and 3 be Aluminum. | Will discuss with corrosion engineer to provide corrosion resistant coating or update to different material for exposure. GMP Assumption: Include aluminum material. | Scoggins | 12/6/2019 | Noted | \$ 47,000 |
| 633 | Craig Wilcox | Critical Issue | - | Section A on S-301-14HW3PS, Section C on S-302-14HW3PS | Eliminate Grid line 3 wall CJ's at Elevation -10.00 and Elevation -15.00 as these create "pins" not transferring wall moments up and down vertically that will require revising the reinforcing steel to much larger sizes and closer spacing. | These are construction joints with full continuity of reinforcing. Force transfer is same as for monolithic. | Scoggins | 10/17/2019 | Noted | |
| 634 | Craig Wilcox | Critical Issue | - | S-110-14ODO | Recommend increasing reinforcing steel percentage from current 0.2% to greater than 0.3% to comply with ACI 350 minimum steel requirements for slabs greater than 40 feet without joints and to mitigate shrinkage and temperature cracking. | Minimum reinforcing steel will be increased to provide minimum as required per ACI 350. | Scoggins | 10/17/2019 | Noted | |
| 635 | Craig Wilcox | | - | S-122-14BLDG64 | Size steel framing around deck opening as L 2x2x3/16 per Detail 0531-021 appears undersized. | Will be as required for capacity and serviceability | Scoggins | 10/17/2019 | Noted | |
| 636 | Craig Wilcox | Critical Issue | - | S-122-14BLDG64 | Indicate deck ledger detail 0531-001 is to occur at all walls (all 4 sides) and intermediate walls 0531-002. | Additional detail references and details will be provided for final design | Scoggins | 10/17/2019 | Noted | |
| 637 | Craig Wilcox | Critical Issue | - | Sections D and E on S-303-14BLDG64, Section F on S-304-14BLDG64 | Continue reinforcing steel across ramp concrete joints to avoid differential settlement vertical offsets creating trip and fall hazards. | Will add detail as design progresses | Scoggins | 10/17/2019 | Noted | |
| 638 | Craig Wilcox | | - | Elevation 2 on S-501-14BLDG64 | Recommend all column ties be spaced at 6 inches on center for ductility during seismic events and resistance to unbalanced moments from the beams above. | Columns are non-participating. Ties will be as required to meet ACI 318 | Scoggins | 10/17/2019 | Needs further review as design progresses | |
| 639 | Craig Wilcox | Critical Issue | - | Specification 03 30 00 Cast-in-place Concrete, Concrete Mix Design, CLASS 5000F0S1W1C2 Supplement 2 | Item C. 7. Cementitious material should also be using Type V cement in the concrete mixes (or Type II and V dual certified cement) due to both the corrosive nature of the soils and the liquid contents to be contained/conveyed. | Type V cement is not required for exposure conditions per ACI. Type II will be used. | Scoggins | 10/17/2019 | Needs further review as design progresses | |
| 640 | Craig Wilcox | Critical Issue | - | Specification 03 30 00 Cast-in-place Concrete, Concrete Mix Design, CLASS SM00F0S1W1C2 Supplement 1 | Item C. 5. Cementitious material should also be using Type V cement in the concrete mixes (or Type II and V dual certified cement) due to both the corrosive nature of the soils and the liquid contents to be contained/conveyed. | Type V cement is not required for exposure conditions per ACI. Type II will be used. | Scoggins | 10/17/2019 | Needs further review as design progresses | |

2/13/2020


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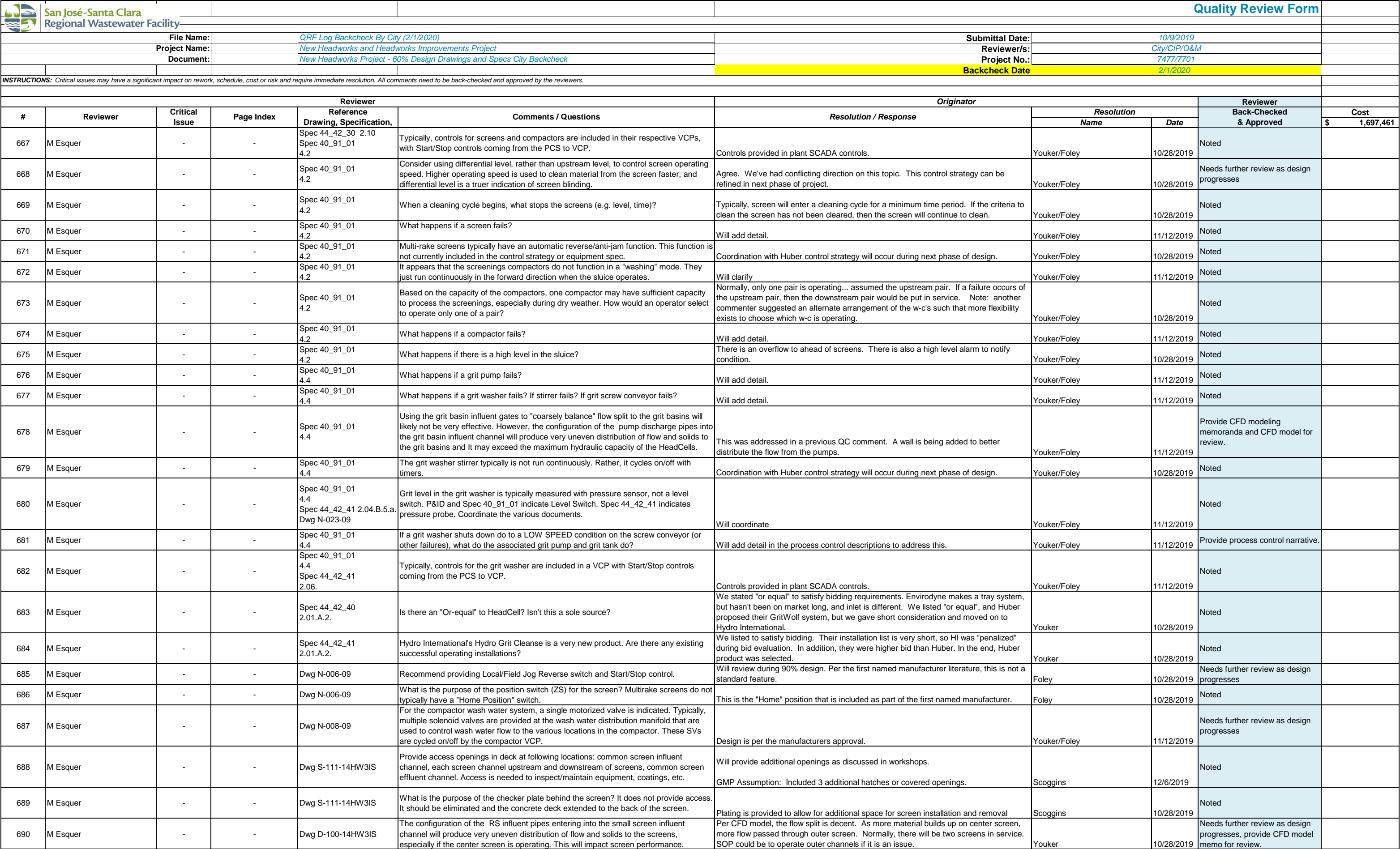
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TABLOID REVIEW FORM | HW Project 60 percent QRF_20191018 - City Responses_20200212_R3.xlsx

Page 26 of 41

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| <div><div>San José-Santa Clara Regional Wastewater Facility</div></div> | | | | | | Quality Review Form | | | | | | | |
| File Name: | | | | | | QRF Log Backcheck By City (2/1/2020) | | Submittal Date: | | 10/9/2019 | | | |
| Project Name: | | | | | | New Headworks and Headworks Improvements Project | | Reviewer/s: | | City/CIP/O&M | | | |
| Document: | | | | | | New Headworks Project - 60% Design Drawings and Specs City Backcheck | | Project No.: | | 7477/7701 | | | |
| | | | | | | | | Backcheck Date | | 2/1/2020 | | | |
| INSTRUCTIONS: Critical issues may have a significant impact on rework, schedule, cost or risk and require immediate resolution. All comments need to be back-checked and approved by the reviewers. | | | | | | | | | | | | | |
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| Reviewer | | | | | | Originator | | | | Reviewer | | | |
| # | Reviewer | Critical Issue | Page Index | Reference Drawing, Specification, | Comments / Questions | Resolution / Response | Resolution | | Back-Checked & Approved | Cost | | | |
| | | | | | | | Name | Date | | | | | |
| 641 | Craig Wilcox | Critical Issue | - | Specification 03 30 00 Cast-in-place Concrete | Page 8, Part 2.01 A. Should be using Type V cement in the concrete mixes (or Type II and V dual certified cement) due to both the corrosive nature of the soils and the liquid contents to be contained/conveyed. | Type V cement is not required for exposure conditions per ACI. Type II will be used. | Scoggins | 10/17/2019 | Needs further review as design progresses | 1,697,461 | | | |
| 642 | Craig Wilcox | Critical Issue | - | Specification 03 30 00 Cast-in-place Concrete | Page 27, Part 3.09 F. Specify that liquid tightness testing is to occur prior to any coatings or linings installation so the test is on the concrete and not the coating or lining. | Indicated in item 6.b of that section. | Scoggins | 10/17/2019 | Noted | | | | |
| 643 | Craig Wilcox | Critical Issue | - | Specification 03 30 00 Cast-in-place Concrete | Page 27, Part 3.09 F. 6. Specify that initial liquid filling of basins is to occur at the maximum rate of 2 vertical feet per 24 hours so as not to wash out all the unhydrated cement from cracks that can heal with the slow filling of the structures. | This is more stringent than required by ACI 350.1 and will not be included. Contractor is responsible for no visible leakage in accordance with that standard. | Scoggins | 10/17/2019 | Needs further review as design progresses | | | | |
| 644 | Craig Wilcox | Critical Issue | - | Specification 03 30 00 Cast-in-place Concrete | Page 27, Part 3.09 F. 8. c. 1) Specify volume loss not to exceed 0.20 percent of contained liquid volume in 7 days after allowing the full volume to soak the basin being tested for 3 days. This more thorough testing will also typically produce a passing test without retest for well placed and cured concrete. | This is more stringent than required by ACI 350.1 and will not be included. Contractor is responsible for no visible leakage in accordance with that standard and reserves the option to allow additional submerged time where schedule permits. | Scoggins | 10/17/2019 | Needs further review as design progresses | | | | |
| 645 | Mike Cardellini | - | - | All Drawings | The architects/engineers of record shall stamp and sign each drawing as required by code, including each of the 8.5x11 standard details in Volume 5. | ok | Scoggins | 10/17/2019 | Noted | | | | |
| 646 | Mike Cardellini | - | - | Calculations | Please organize calculations to facilitate our review. Group calcs by building or project areas. Provide a table of contents. Provide a basis of design narrative for the various structural elements. Provide page numbers. Provide drawings references to connect calculations to portions of the project they justify. | ok | Scoggins | 10/17/2019 | Noted | | | | |
| 647 | Mike Cardellini | - | - | | Provide public works' special inspection form with final submittals. | ok | Scoggins | 10/17/2019 | Noted | | | | |
| 648 | Mike Cardellini | - | - | | Provide separate hard copy of geotechnical reports for review & filing | will coordinate with PM and project assistance to ensure delivery of hardcopies of report | Davis | 10/16/19 | Noted | | | | |
| 649 | Mike Cardellini | - | - | | For the various miscellaneous structural elements around the site, please provide a brief explanation of any structural considerations. If any of the reinforced concrete is non-structural in nature, please identify this so we won't apply structural requirements during plan review. | Will attempt to clarify | Scoggins | 10/17/2019 | Noted | | | | |
| 650 | Mike Cardellini | - | - | | S-110-11D is provided twice in the set--sheets 173 and 189. The first one seems to be a mistake. | Will amend | Scoggins | 10/17/2019 | Noted | | | | |
| 651 | Mike Cardellini | - | - | | At the pie structure, please provide direction for the repairs of guardrails. Will these be part of deferred submittals? | Will provide more information. Railing is also performance specified in documents | Scoggins | 10/17/2019 | Noted | | | | |
| 652 | Mike Cardellini | - | - | 1/S-501-1P | Where the plug extends through the wall, and is cast up against existing concrete, we recommend putting rebar each way on all exterior faces of new concrete. Being cast up against existing concrete is enough to provide shrinkage restraint which would trigger minimum shrinkage reinforcements in both directions. We recommend this be applied throughout the project wherever concrete thickness exceeds 18 inches. | Will consider. This is not a structural criteria. | Scoggins | 10/17/2019 | Needs further review as design progresses | | | | |
| 653 | Mike Cardellini | - | - | A/S-110-1A | Provide missing info. | Will add detail as design progresses | Scoggins/Pieterick | 10/17/2019 | Noted | | | | |
| 654 | Mike Cardellini | - | - | A/S-110-1B | Please confirm is this a 2'-0" thick wall without any reinforcement across the top? | Confirmed | Scoggins | 10/17/2019 | Noted | | | | |
| 655 | Henry Zuo | - | 65 | HVAC Calculation | Where is the envelope heat gain of the Electrical Room? | Page 85, Table 1.1.B | Sackinger | 10/17/2019 | Noted | | | | |
| 656 | Henry Zuo | - | 66 | HVAC Calculation | Any heat gains from envelope and through demise walls? | Envelope heat gains are calculated in the following section, pg 75. Ext walls are 922 Btu/hr. Partition is 431 Btu/hr. | Sackinger | 10/17/2019 | Noted | | | | |
| 657 | Henry Zuo | - | 71 | HVAC Calculation | OA of 36 cfm is low and not sufficient for pressurization. Suggest 100 cfm or 20% OA damper position of rooftop unit. | Load calc accounts for 90 cfm OSA. This will be pulled off the IDEC unit in future. | Sackinger | 10/17/2019 | Needs further review as design progresses | | | | |
| 658 | Henry Zuo | - | 71 | HVAC Calculation | OA temperature to be of 99.9% ASHRAE conditions, 100.7 deg F db / 68.3 wb | The project was directed to use 89/66 as design temperatures by the Architectural Design Guide, as documented in the BODR. No change planneed | Sackinger | 10/17/2019 | Needs further review as design progresses | | | | |
| 659 | Henry Zuo | - | 74 | HVAC Calculation | OA temperature to be of 99.9% ASHRAE conditions, 100.7 deg F db / 68.3 wb | The 2017 ASHRAE design temperature (0.4%) for nearby Moffett field is 88.1/65.5. Therefore 89/66 seems reasonable. | Sackinger | 10/17/2019 | Needs further review as design progresses | | | | |
| 660 | Henry Zuo | - | 80 | HVAC Calculation | How is 47.51 gpm water flow derived? | That would be the required flow if chilled water was used. Chilled water will not be used. | Sackinger | 10/17/2019 | Noted | | | | |
| 661 | Henry Zuo | - | 80 | HVAC Calculation | Is the water flow from plant's 3W, Recycle Water, or 1W? | Neither. The software automatically includes a chilled water flow rate, even if no chilled water is used. | Sackinger | 10/17/2019 | Noted | | | | |
| 662 | M Esquer | - | - | Spec 44_42_30 2.02.A. | a) Did you confirm satisfactory long term performance (in US installations) for all 3 of the specified manufacturers for both the screens and the compactor - installations of equipment that are similar in size, bar spacing, service, etc. to this project. b) You may want to reconsider specifying the screens and compactors as a package. Some manufacturers make a good screen but not a good compactor, and vice versa. c) Many of the specified minimum thicknesses for screen components are less than that provided by other top quality screen manufacturers. | a) Huber, Kusters Water, and Enviro-Care make quality equipment. Huber has been selected, and has strong presence in industry. b) agree, but Huber provides good screens and w-c's. Including the sluice completes the system and single-source responsibility. c) noted. | Youker | 10/28/2019 | Noted | | | | |
| 663 | M Esquer | - | - | Spec 44_42_30 2.04.C.6. and 2.04.K.2. | Article 2.04.C.6 states that "a link system may be used" as an alternate to "chain sprockets and roller chain." What is the link system? Article 2.04.K.2 provides requirements for roller chain. I did not find any description of the "link system." For these type of screens, roller chain is typically used. Is a link system used by one of the named manufacturers? | "A link system" was mistakenly carried over from another project which allowed Duperon to bid. It was edited out of other parts. | Youker | 10/28/2019 | Noted | | | | |
| 664 | M Esquer | - | - | Spec 44_42_30 2.04.K.2 | Spec states that "roller type chain shall be made of hardened 400 stainless steel." Huber does not supply stainless steel rollers for their roller chain. They use polyamide rollers. | Agree. I saw that in their equipment proposal. | Youker | 10/28/2019 | Noted | | | | |
| 665 | M Esquer | - | - | Spec 44_42_30 2.05.D.4. | Why would the head plate be removed "for the purpose of removing screenings from the upper end of the sluice?" Why would screenings need to be removed there? | In very rare case, screenings might accumulate at upstream end. But with sluice water source jetting in that end, not likely. | Youker | 10/28/2019 | Noted | | | | |
| 666 | M Esquer | - | - | Spec 44_42_30 2.06.G. Dwg N-008-09 | For the compactor wash water system, a single motorized valve is indicated. Typically, multiple solenoid valves are provided at the wash water distribution manifold that are used to control wash water flow to the various locations in the compactor. These SVs are cycled on/off by the compactor VCP. | Agree that typically there are multiple solenoids. Will discuss with Huber. But a single valve, and manual valves downstream to distribute flow would simplify the system. | Youker | 10/28/2019 | Noted | | | | |



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|  | | San José-Santa Clara Regional Wastewater Facility | | | | | | | | | | Quality Review Form | | | | |
| | | File Name: | | QRF Log Backcheck By City (2/1/2020) | | | | | | Submittal Date: | | 10/9/2019 | | | | |
| | | Project Name: | | New Headworks and Headworks Improvements Project | | | | | | Reviewer/s: | | City/CIP/O&M | | | | |
| | | Document: | | New Headworks Project - 60% Design Drawings and Specs City Backcheck | | | | | | Project No.: | | 7477/7701 | | | | |
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San José-Santa Clara

Regional Wastewater Facility

File Name:

Project Name:

Document:

QRF Log Backcheck By City (2/1/2020)

New Headworks and Headworks Improvements Project

New Headworks Project - 60% Design Drawings and Specs City Backcheck

Submittal Date:

Reviewer/s:

Project No.:

10/9/2019

City/CIP/O&M

7477/7701

Backcheck Date

2/1/2020

INSTRUCTIONS:

Critical issues may have a significant impact on rework, schedule, cost or risk and require immediate resolution. All comments need to be back-checked and approved by the reviewers.

| # | | Reviewer | Critical Issue | Page Index | Reviewer Reference Drawing, Specification, | Comments / Questions | Originator Resolution / Response | Resolution | | Reviewer Back-Checked & Approved | Cost |
|-----|-------------|----------|----------------|------------|--|--|--|-----------------|------------|---|-----------|
| | | | | | | | | Name | Date | | \$ |
| 725 | J. Carvallo | - | - | - | - | Page P-120-14HW3GB. Label plumbing as roof or deck drain. Also, What's the area being drained to each of the roof/deck drain. The deck drain termination must not impede any walkway. | Flow Stream is "FD" for "floor drain". Goes to splash blocks but all site drainage goes to process. Section shows this is out of the way. | Sackinger | 10/28/2019 | Noted | |
| 726 | J. Carvallo | - | - | - | - | Provide details of sump on page P-100-14HW3GB | Will reference the process drawings. | Sackinger | 10/28/2019 | Noted | |
| 727 | J. Carvallo | - | - | - | - | Show minimum required distance from side of sink to wall on page A-401-14BLDG64 | This appears to be an accessibility question although CBC does not ask for the clear dimension between the sink and the wall. The dimension provided is for construction to ensure that plumbing stub-ups could be accurately placed in the floor. Title 24 requires that a clear floor area 30 wide centered on the Lavatory be maintained (no obstacles within 9" of the centerline). The plan shows 2'-6" from centerline of sink to the CMU. The wall is 4" thick the Waste receptacle is 8 inches deep so the clear space from the center line to the nearest obstacle is 1'-6". (twice what is required for accessibility. | Pieterick | 10/28/2019 | Need to discuss further with SECI | |
| 728 | J. Carvallo | - | - | - | - | Explain why there's no urinal on electrical building? Provide exception. | The code does not require a urinal and it seemed wasteful to put a urinal in a single occupant unisex toilet room. The electrical building is a normally un-occupied building. A single unisex toilet is being provided to accommodate plant staff that may come to this area of the plant to service the equipment. The code does not require anything more. | Pieterick | 10/28/2019 | Need to discuss further with SECI | |
| 729 | J. Carvallo | - | - | - | - | Show CFM for supplies at janitor room and bathroom on page M-112-14BLDG64 | Will do. | Sackinger | 10/28/2019 | | |
| 730 | J. Carvallo | - | - | - | - | Provide schedule for fire dampers | A schedule is usually not necessary. | Sackinger | 10/28/2019 | Schedule required, please provide. | |
| 731 | J. Carvallo | - | - | - | - | Provide title 24 mechanical sheets. | Will do. | Sackinger | 10/28/2019 | Noted | |
| 732 | J. Carvallo | - | - | - | - | What's FL exhaust on battery room? | Will say "Floor Exhaust" and reference detail. | Sackinger | 10/28/2019 | Noted | |
| 733 | J. Carvallo | - | - | - | - | Page P-102-14BLDG64. Drain in lower level must have traps, trap primers, vents and slope of 2% for 3". Also, pumped system must be as short as possible. Discharge line, back water valve and gate valve must be 3" as per CPC 710.3 and should be installed as close to the pump as possible. Or explain why is being done indirect. Provide specs for all ejector pumps. | CPC 710.3 does not apply because sewage is not being drained. Sump pump is spec'd in section 22 30 00 Plumbing Equipment. | Sackinger | 10/28/2019 | Need to discuss further with SECI | |
| 734 | J. Carvallo | - | - | - | - | No flat venting allowed (CPC 905.03) unless structural condition exists. Please modify isometric drawing and plan view. | Will do. | Sackinger | 10/28/2019 | Noted | |
| 735 | J. Carvallo | - | - | - | - | Water going to HVAC unit on roof must be protected. Please show on plans. After device, water must be labeled industrial water. | Potable water is provided to the roof. It is protected by an air gap at the equipment, and a vacuum breaker at the hose bib. | Sackinger | 10/28/2019 | Show on drawing. | |
| 736 | J. Carvallo | - | - | - | - | All floor drains to have trap primers (hard drawn) as per CPC 1007.1 | All tagged with a "P" suffix will be primed. CPC 1007.1 does not require copper, and PEX tubing is seen as a tougher, cheaper, and more corrosion resistant option. | Sackinger | 10/28/2019 | Needs further review as design progresses | |
| 737 | O&M | | | | General | Septage station needs rock trap and containment curbs | Per client meeting 10/22/2019, individual rock traps are to be added at each HW3 septage receiving lane. | Chandler | 10/28/2019 | Noted | |
| 738 | O&M | | | | General | Need access platforms to screens, sluiceway, washer compactors, grit classifiers and diverter chutes | PM has provided direction to provide maintenance access in screens area, but not grit washer area. | Youker | 10/28/2019 | Noted | |
| 739 | O&M | | | | General | Need overflow sluiceway for when the screening conveyor is out of service, may need wet bin as well | Will develop an easy method to divert sluice way into wet bin. | Youker | 10/28/2019 | Noted | |
| 740 | O&M | | | | General | EOB design needs review - concrete thickness seems inadequate | Additional design to be performed at 90% | Chandler | 10/28/2019 | Noted | |
| 741 | O&M | | | | General | May need additional stop plates and guides to allow isolation for gates and screens | 1) stop plates not included in scope. Intent is to provide a slot so that a stop plate could be fabricated when required to be used. Therefore, gate locker not included. If stop plates to be added to scope, provide direction. 2) Downstream stop plate slots intentional left out. Downstream gate rarely used, normally open. If maintenance of downstream gate required, use HW 2. Downstream slots can be added. Provide direction. | Youker | 10/28/2019 | Needs further review as design progresses | |
| 742 | O&M | | | | General | Explain how easy it is to remove equipment of the grit room basement? | Pump components can be placed on pallet, moved under monorail, and lifted up to grade/landing. From landing can move out to truck. | Youker | 10/28/2019 | Difficult, but workable. May need further review as design progresses | |
| 743 | O&M | | | | General | Need access hatches at various locations on HW3 to allow for access | Locations will be added per discussion at 10/22 meeting | | | | |
| 744 | O&M | | | | General | Need access entry points for the 96" RS | GMP Assumption: Include additional hatches or covered openings. | Scoggins | 12/6/2019 | Noted | \$ 20,000 |
| 745 | O&M | | | | General | What are the structures that will be hydraulically leak tested at the project? | Per client meeting 10/22/2019, access points will be added at approximately the 1/3 and 2/3 points along the 96" RS pipeline | Chandler | 10/28/2019 | Noted | |
| 746 | O&M | | | | General | Why is the septage being routed to an open tank, EBOS? This will cause odor issues in the future, and the EBOS will have to be covered. Can the septage be tied into a MH downstream of EBOS and to HW3? | All new water holding basins. Per client direction Septage Receiving is to be tied into EBOS so that the septage lanes can be used if HW3 is offline and flow is routed to HW2. 90° vertical elbow inside EBOS can be added to keep septage pipe submerged and reduce odors. | Scoggins | 10/28/2019 | Needs further review as design progresses | |
| 747 | O&M | | | | General | can the screenings conveyor be fitted with dual blades to avoid jamming? | Will discuss with Huber, but do not believe that is option. | Chandler/Cowden | 10/28/2019 | Needs further review as design progresses | |
| 748 | O&M | | | | General | CA structure sampling plan does not contain details for approval | Will discuss with Huber, but do not believe that is option. | Youker | 10/28/2019 | Noted | |
| 749 | O&M | | | | General | Discuss size of gates required for isolation, and provide some information on gate "lockers" | Sampler design details will be added at 90% isolation gates in front of influent screens are 2feet taller than normal maximum level. If a major equipment failure occurs, water level rises, and can go over top of gate. See response to 741 regarding gate locker. | White | 10/28/2019 | Noted | |
| 750 | O&M | | | | City | Develop and describe control strategy for HW2/HW3 operation prior to signing the GMP. | The flow split has been discussed and preliminary replica modeling has been done to confirm the general concept is feasible. This details of the flow split and detailed process control narratives will be completed post 60% during the final design phase. | Youker | 11/14/2019 | Noted | |
| | | | | | | | The flow split has been discussed and preliminary replica modeling has been done to confirm the general concept is feasible. This details of the flow split and detailed process control narratives will be completed post 60% during the final design phase. | Youker/Foley | | Provide a draft and final Replica model calibration for review | |

2/13/2020

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TABLOID REVIEW FORM | HW Project 60 percent QRF_20191018 - City Responses_20200212_R3.xlsx

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INSTRUCTIONS: Critical issues may have a significant impact on rework, schedule, cost or risk and require immediate resolution. All comments need to be back-checked and approved by the reviewers.


| Reviewer | | | | | | Originator | | | Reviewer | |
|----------|----------|----------------|------------|--|---|--------------------------------|------------|-----------|-------------------------|------|
| # | Reviewer | Critical Issue | Page Index | Reference Drawing, Specification, | Comments / Questions | Resolution / Response | Resolution | | Back-Checked & Approved | Cost |
| | | | | | | | Name | Date | | \$ |
| 751 | J. Au | - | - | Network Switches and Cat6 cable colors: | For the Modbus TCP networks (Unmanaged Switches): -- the FIRST network switch, have to take "Hirschmann SPIDER II 16TX 2DS-S EEC"; or "RS30-2402O6O6SDAEHH" if you need more ports -- Need TWO Hirschmann SFPs (M-SFP-MX_LC_EEC) -- Other network switches can be: Hirschmann SPIDER II 8TX 1FX, SPIDER II 16TX EEC -- Modbus TCP to Modbus Serial converter: MOXA MGate_MB3270I_QIG_v3 -- Network Cat6 cable color of Modbus network is "White" | Will review during 90% design. | Foley | 11/4/2019 | Noted | |
| 752 | J. Au | - | - | For the "800xA" and the "Control" networks (Managed Switches): | For the "800xA" and the "Control" networks (Managed Switches): -- Network switches can be: Hirschmann RS30-0802O6O6SDAEHH, RS30-1602O6O6SDAEHH, RS30-2402O6O6SDAEHH, RS40-0009CCCCSDHEHH -- network Cat6 cable color of 800xA-1 is "Purple" -- network Cat6 cable color of 800xA-2 is "Red" -- network Cat6 cable color of Ctrl-1 is "Yellow" -- network Cat6 cable color of Ctrl-2 is "Green" | Will review during 90% design. | Foley | 11/4/2019 | Noted | |
| 753 | J. Au | - | - | HPC50 Modbus TCP Network: | Default Gateway of all Modbus devices: 10.50.0.1 Modbus device IP Range: 10.50.0.101 -- 10.50.0.254 Subnet Mask: 255.255.252.0 | Will review during 90% design. | Foley | 11/4/2019 | Noted | |
| 754 | J. Au | - | - | For the IP addresses for HW3: | For HPC50 - HPC Control Net IP (Team NIC) 192.168.1.50; Subnet Mask 255.255.255.0; Primary; HPC Modbus IP- 10.50.0.90, 255.255.252.0; All other Modus TCP Devices - Device 1: 10.50.0.101, 255.255.252.0 For HPC51 - HPC Control Net IP (Team NIC) 192.168.1.51; Subnet Mask 255.255.255.0; Redundant HPC Modbus IP- 10.50.0.91, 255.255.252.0 ; All other Modus TCP Devices - Device 1: 10.50.0.102, 255.255.252.0 Default Gateway - 10.50.0.1 | Will review during 90% design. | Foley | 11/4/2019 | Noted | |
| 755 | J. Au | - | - | Color List | See "Sample Cabinet Profibus Start Topology.pdf" | Will review during 90% design. | Foley | 11/4/2019 | Noted | |


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| 1 | PW | Dan Peters | Appendix B | - | Odor Study should be referenced as 2015 CIP Program Study 3 Odor and Corrosion Control Study | Done | Saunders | 3/8/2019 | Not done |
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| 2 | CDM | Ed Fernbach | Drawing | G-080-01 | See attached markups | The comments will be incorporated as appropriate. Yes, does city staff have criteria for returning flow from EOB? | White | 3/8/2019 | E. Fernbach's comments from the 30% design drawings/specs have not been addressed. Jacobs should address these issues during the 30-60% phase. |
| 3 | CDM | Ed Fernbach | Drawing | G-090-01 | See attached markups | Will incorporate comments. | White | 3/8/2019 | E. Fernbach's comments from the 30% design drawings/specs have not been addressed. Jacobs should address these issues during the 30-60% phase. |
| 4 | CDM | Ed Fernbach | Drawing | G-100-01 | See attached markups | Note: This drawing is called "Design Information". This was a means of communicating some design calculations that were asked. As project moves forward, this drawing will be reduced and simplified to a normal Design Criteria dwg. | Youker | 3/8/2019 | E. Fernbach's comments from the 30% design drawings/specs have not been addressed. Jacobs should address these issues during the 30-60% phase. |
| 5 | CDM | Ed Fernbach | Drawing | G-120-01 | See attached markups | Grit Return will be added. The pipe time for Grit is under review. The response is covered in a different review comment. | Edwards | 3/8/2019 | E. Fernbach's comments from the 30% design drawings/specs have not been addressed. Jacobs should address these issues during the 30-60% phase. |
| 6 | CDM | Ed Fernbach | Drawing | C-100-05 | See attached markups | Responses provided in attached markups. | Chandler | 3/8/2019 | E. Fernbach's comments from the 30% design drawings/specs have not been addressed. Jacobs should address these issues during the 30-60% phase. |
| 7 | CDM | Ed Fernbach | Drawing | Y-100-07 | See attached markups | Responses provided in attached markup. | Chandler | 3/8/2019 | E. Fernbach's comments from the 30% design drawings/specs have not been addressed. Jacobs should address these issues during the 30-60% phase. |

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|  | | San José-Santa Clara Regional Wastewater Facility | | | | | Quality Review Form | | | |
| File Name: | | QRF Log Backcheck By City (2/1/2020) | | | | Submittal Date: | | 10/9/2019 | | |
| Project Name: | | New Headworks and Headworks Improvements Project | | | | Reviewer/s: | | City/CIP/O&M | | |
| Document: | | New Headworks Project - 60% Design Drawings and Specs City Backcheck | | | | Project No.: | | 7477/7701 | | |
| | | | | | | Backcheck Date | | 2/1/2020 | | |
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| Reviewer | | | | | | Originator | | | Reviewer | |
| # | Reviewer | Critical Issue | Page Index | Reference Drawing, Specification, | Comments / Questions | Resolution / Response | Resolution | | Back-Checked & Approved | Cost |
| | | | | | | | Name | Date | | |
| 8 | CDM | Ed Fernbach | Drawing | E-100-08 | See attached markups | There will be detailed area site plans provided in future deliverables for more clarity. Overall site plan shall remain as is. | Tom | 3/8/2019 | E. Fernbach's comments from the 30% design drawings/specs have not been addressed. Jacobs should address these issues during the 30-60% phase. | |
| 9 | CDM | Ed Fernbach | Drawing | E-701-08 | See attached markups | MV feeders will be in same concrete encased duct bank but will go to different handholes for fault isolation per Nelso. Pump size is still being discussed and will be coordinated. | Tom | 3/8/2019 | E. Fernbach's comments from the 30% design drawings/specs have not been addressed. Jacobs should address these issues during the 30-60% phase. | |
| 10 | CDM | Ed Fernbach | Drawing | N-001-09 | See attached markups | See responses on drawings | Foley | 3/8/2019 | E. Fernbach's comments from the 30% design drawings/specs have not been addressed. Jacobs should address these issues during the 30-60% phase. | |
| 11 | CDM | Ed Fernbach | Drawing | N-002-09 | See attached markups | See responses on drawings | Foley | 3/8/2019 | E. Fernbach's comments from the 30% design drawings/specs have not been addressed. Jacobs should address these issues during the 30-60% phase. | |
| 12 | CDM | Ed Fernbach | Drawing | N-004-09 | See attached markups | See responses on markups | Foley | 3/8/2019 | E. Fernbach's comments from the 30% design drawings/specs have not been addressed. Jacobs should address these issues during the 30-60% phase. | |
| 13 | CDM | Ed Fernbach | Drawing | N-005-09 | See attached markups | See responses in markup. | Foley | 3/8/2019 | E. Fernbach's comments from the 30% design drawings/specs have not been addressed. Jacobs should address these issues during the 30-60% phase. | |
| 14 | CDM | Ed Fernbach | Drawing | N-006-09 | See attached markups | See responses in markup. | Foley | 3/8/2019 | E. Fernbach's comments from the 30% design drawings/specs have not been addressed. Jacobs should address these issues during the 30-60% phase. | |
| 15 | CDM | Ed Fernbach | Drawing | N-007-09 | See attached markups | See responses in markup | Foley | 3/8/2019 | E. Fernbach's comments from the 30% design drawings/specs have not been addressed. Jacobs should address these issues during the 30-60% phase. | |
| 16 | CDM | Ed Fernbach | Drawing | N-008-09 | See attached markups | See responses in markup. | Foley | 3/8/2019 | E. Fernbach's comments from the 30% design drawings/specs have not been addressed. Jacobs should address these issues during the 30-60% phase. | |
| 17 | CDM | Ed Fernbach | Drawing | N-011-09 | See attached markups | See responses in markup. | Foley | 3/8/2019 | E. Fernbach's comments from the 30% design drawings/specs have not been addressed. Jacobs should address these issues during the 30-60% phase. | |
| 18 | CDM | Ed Fernbach | Drawing | N-017-09 | See attached markups | See responses in markup. | Foley | 3/8/2019 | E. Fernbach's comments from the 30% design drawings/specs have not been addressed. Jacobs should address these issues during the 30-60% phase. | |
| 19 | CDM | Ed Fernbach | Drawing | N-018-09 | See attached markups | See responses in markup. | Foley | 3/8/2019 | E. Fernbach's comments from the 30% design drawings/specs have not been addressed. Jacobs should address these issues during the 30-60% phase. | |

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|  | | San José-Santa Clara Regional Wastewater Facility | | | | | Quality Review Form | | | |
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| Document: | | | | New Headworks Project - 60% Design Drawings and Specs City Backcheck | | | Project No.: | | 7477/7701 | |
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| | | | | | | | Name | Date | | |
| 20 | CDM | Ed Fernbach | Drawing | N-025-09 | See attached markups | See responses in markup. | Foley | 3/8/2019 | E. Fernbach's comments from the 30% design drawings/specs have not been addressed. Jacobs should address these issues during the 30-60% phase. | |
| 21 | CDM | Ed Fernbach | Drawing | N-026-09 | See attached markups | See responses in markup. | Foley | 3/8/2019 | E. Fernbach's comments from the 30% design drawings/specs have not been addressed. Jacobs should address these issues during the 30-60% phase. | |
| 23 | CDM | Ed Fernbach | Drawing | R-001-05 | See attached markups | Odor control location has been moved. | Youker | 3/8/2019 | E. Fernbach's comments from the 30% design drawings/specs have not been addressed. Jacobs should address these issues during the 30-60% phase. | |
| 24 | CDM | Ed Fernbach | Drawing | R-003-05 | See attached markups | 1) Connection to wetwell will be below EI 13, and above normal high water level. Flap valve used to prevent backflow out. 2) Can reduce channel length and rely on headloss to distribute flow. | Youker | 3/8/2019 | E. Fernbach's comments from the 30% design drawings/specs have not been addressed. Jacobs should address these issues during the 30-60% phase. | |
| 25 | CDM | Ed Fernbach | Drawing | R-004-05 | See attached markups | Comment not applicable to new configuration | Youker | 3/8/2019 | E. Fernbach's comments from the 30% design drawings/specs have not been addressed. Jacobs should address these issues during the 30-60% phase. | |
| 26 | CDM | Ed Fernbach | Drawing | R-001-14HW3 | See attached markups | 1) Will develop OA duct routing; 2) Can include stop plate guides but is a change in scope. City to provide direction if a change is to be made. 3) stair tower access to grit pumps not applicable to new configuration | Youker | 3/8/2019 | E. Fernbach's comments from the 30% design drawings/specs have not been addressed. Jacobs should address these issues during the 30-60% phase. | |
| 27 | CDM | Ed Fernbach | Drawing | R-002-14HW3 | See attached markups | 1) meter pit removed; 2) pump discharge pipe revised; 3) will attempt to standardize channel widths | Youker | 3/8/2019 | E. Fernbach's comments from the 30% design drawings/specs have not been addressed. Jacobs should address these issues during the 30-60% phase. | |
| 28 | CDM | Ed Fernbach | Drawing | R-003-14HW3 | See attached markups | Moved grit washers closer together. | Youker | 3/8/2019 | E. Fernbach's comments from the 30% design drawings/specs have not been addressed. Jacobs should address these issues during the 30-60% phase. | |
| 29 | CDM | Ed Fernbach | Drawing | R-004-14HW3 | See attached markups | 1) Need direction on how much maintenance platform to add around screens (platforms not in cost?); 2) Isolation gates are graphic placeholder, but good point on height. | Youker | 3/8/2019 | E. Fernbach's comments from the 30% design drawings/specs have not been addressed. Jacobs should address these issues during the 30-60% phase. | |
| 30 | CDM | Ed Fernbach | Drawing | R-008-14HW3 | See attached markups | Headcell drain: Intend to see if Grit Pump can pump back to RS Wetwell, so would require alternate discharge pipe routing | Youker | 3/8/2019 | E. Fernbach's comments from the 30% design drawings/specs have not been addressed. Jacobs should address these issues during the 30-60% phase. | |
| 31 | CDM | Ed Fernbach | Drawing | R-012-14HW3 | See attached markups | Will not be able to slope down and have OA above grade - will block access to EOB. Will have other means of removing condensation. | Youker | 3/8/2019 | E. Fernbach's comments from the 30% design drawings/specs have not been addressed. Jacobs should address these issues during the 30-60% phase. | |
| 32 | CDM | Ed Fernbach | Appx A | -- | See attached markups | Grit Return will be added. The pipe time for Grit is under review. The response is covered in a different review comment. | Maestri | 3/8/2019 | E. Fernbach's comments from the 30% design drawings/specs have not been addressed. Jacobs should address these issues during the 30-60% phase. | |

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| 33 | CDM | John Gallegos | Appx F | -- | Include date of submission to client for tracking purposes, or will this be tracked on separate report? | is this the date a particular item is submitted or the file? | Maestri | 3/8/2019 | Tracking the approvals and reviews during the process to insure buy-in from all groups affected for maintaining of plant operations prior to critical tie-ins. | | | | |
| Other Items Identified during 60% Design Review and 60% Estimate Review | | | | | | | | | | | | | |
| Supp01 | 10/22 workshop decision | | | | Add another pump station to capture all stormwater flows from new impervious surfaces and return to headworks. | Driven by permitting GMP Assumption: Direction from City - Include piping, storm drainage structures and pumps within EBOS. Exclude pump station structure. | | 12/6/2019 | Continue discussion with City during 60%-90% phase | \$ 475,000 | | | |
| Supp02 | 10/22 workshop decision | | | | Update design to have a 1.5-in washdown hose bib at each septage receiving station, rock traps at each lane openings, pad for small dumpster for septage drivers to empty rock traps into, and require hauler to empty and dump into the bin. | GMP Assumption: Include scope change. | | 12/6/2019 | Continue discussion with City during 60%-90% phase | \$ 41,000 | | | |
| Supp03 | 10/22 workshop decision | | | | Move septage lanes to north to provide pipe run to EBOS and add "Do Not Enter" signs to north end of lanes and directional arrows to control traffic flow through septage receiving lanes. | GMP Assumption: Assume scope tradeoff by moving location, no additional scope included. | | 12/6/2019 | Continue discussion with City during 60%-90% phase | | | | |
| Supp04 | 10/22 workshop decision | | | | Raise pavement grade around east end of Influent Screening to match pavement grade to top of deck elevation for better access on that side of the structure. | GMP Assumption: Assume no scope change. | | 12/6/2019 | Continue discussion with City during 60%-90% phase | | | | |
| Supp05 | 10/22 workshop decision | | | | Move the RW fill station so that it is not in the way of the access road. | GMP Assumption: Do not move location. Protect with bollards. | | 12/6/2019 | Continue discussion with City during 60%-90% phase | | | | |
| Supp06 | 10/22 workshop decision | | | | Eliminate 48" Santa Clara jumper line from HW2 and any work on the HW2 septage receiving from the scope. | GMP Assumption: Removed. | | 12/6/2019 | Continue discussion with City during 60%-90% phase | | | | |
| Supp07 | 10/22 workshop decision | | | | Return to the previous design of routing S Milpitas to EBOS Compartment C so that once interceptor 1 is routed there, they both come together as one line from Zanker Rd | GMP Assumption: Use 30% Design concept. | | 12/6/2019 | Continue discussion with City during 60%-90% phase | | | | |
| Supp08 | 10/22 workshop decision | | | | Confirm with the hydraulic model if this new design can work and review other options to allow for Compartment B to be isolated in the future. | Action Item/Design Change GMP Assumption: Utilize sketch provided by City. | | 12/6/2019 | Continue discussion with City during 60%-90% phase | | | | |
| Supp09 | 10/22 workshop decision | | | | Review all gates and provide a means to isolate gates for maintenance without shutting down the entire facility. Provide gate locker and stop plates as required to allow for isolation. Provide as many as required to isolate one gate at a time. Philosophy will be to have stop gates/guides on either end of the screens to be able to isolate each channel. | GMP Assumption: Included in Item #230. | | 12/6/2019 | Continue discussion with City during 60%-90% phase | | | | |
| Supp10 | 10/22 workshop decision | | | | Add platform to allow maintenance access to the top of the screens. | GMP Assumption: Included in Item #253. | | 12/6/2019 | Continue discussion with City during 60%-90% phase | | | | |
| Supp11 | 10/22 workshop decision | | | | Extend the existing sluice opening out to the driveways so that an extra wet bin can be added in extreme wet weather conditions. Provide means for liquid from the bin to get into the drain. | GMP Assumption: Included in Item #255. | | 12/6/2019 | Continue discussion with City during 60%-90% phase | | | | |
| Supp12 | 10/22 workshop decision | | | | Provide a way to pull the sump pumps out of the pit in the basement. Confirm equipment can be removed from the basement easily. | GMP Assumption: Include hoist and bracket. | | 12/6/2019 | Continue discussion with City during 60%-90% phase | \$ 2,500 | | | |
| Supp13 | 10/22 workshop decision | | | | Raise height of the compactors canopy to allow for boom truck to be located under it. | GMP Assumption: Do not change scope. | | 12/6/2019 | Continue discussion with City during 60%-90% phase | | | | |
| Supp14 | 10/22 workshop decision | | | | Move the RPS valves to above ground and add bollards around them. | GMP Assumption: Assume scope is tradeoff. Move items above grade. | | 12/6/2019 | Continue discussion with City during 60%-90% phase | | | | |
| Supp15 | 10/22 workshop decision | | | | Provide a ships ladder on the outside of the electrical building, instead of a ladder from inside the hall. | GMP Assumption: Included in Item #219. | | 12/6/2019 | Continue discussion with City during 60%-90% phase | | | | |
| Supp16 | 10/22 workshop decision | | | | Add cage to odor control ladder. | GMP Assumption: Assumed included with Odor Control equipment bid adjustment. | | 12/6/2019 | Continue discussion with City during 60%-90% phase | | | | |
| Supp17 | 10/22 workshop decision | | | | Remove air receiver from design. | | | 12/6/2019 | Continue discussion with City during 60%-90% phase | | | | |
| Supp18 | 10/21 workshop decision | | | | Cost estimate will need to be updated to reflect more significant fiber replacement than shown in the 60%. | GMP Assumption: Include scope change. | | 12/6/2019 | Continue discussion with City during 60%-90% phase | \$ 100,000 | | | |
| Supp19 | 60% internal review comment | | | | Temporary electrical service needs to be 1200A to accommodate the crane power needs. | GMP Assumption: Include scope change. | | 12/6/2019 | Continue discussion with City during 60%-90% phase | \$ 100,000 | | | |
| Supp20 | 10/30 Meeting | | | | Redesign Grit Facility to move pumps under channel. (Cost for design and cost estimating. Construction savings unknown until design is redone.) | GMP Assumption: Do not change scope. | | 12/6/2019 | Continue discussion with City during 60%-90% phase | \$ - | | | |
| Supp21 | Verbal City Comment | | | | May need to stabalize stockpile during time if inactivity. | GMP Assumption: Include general contractor approach. | | 12/6/2019 | Continue discussion with City during 60%-90% phase | | | | |
| Supp22 | Verbal City Comment | | | | City may seek to replace fencing south of Ferric in lieu of relocate existing fence. | GMP Assumption: Include scope change. | | 12/6/2019 | Continue discussion with City during 60%-90% phase | \$ 38,400 | | | |
| Supp23 | Verbal City Comment | | | | Valley gutters may be City preference for valley lines at new HW3 paving. | GMP Assumption: Include scope change. | | 12/6/2019 | Continue discussion with City during 60%-90% phase | \$ 14,400 | | | |
| Supp24 | Jacobs Internal QC Comment | | | | Add VFDs to grit pumps. | GMP Assumption: Include scope change. | | 12/6/2019 | Continue discussion with City during 60%-90% phase | \$ 53,300 | | | |
| Supp25 | Jacobs Internal QC Comment | | | | Additional valves may be needed to isolate lines near HW3, where connecting into existing systems. | GMP Assumption: Include scope change. | | 12/6/2019 | Continue discussion with City during 60%-90% phase | \$ 60,000 | | | |
| Supp26 | Jacobs Internal QC Comment | | | | Add to replace piping on 84" RS North Loop. Replace to where it goes submerged. | GMP Assumption: Include interior coatings system up to where line dips and becomes submerged. | | 12/6/2019 | Continue discussion with City during 60%-90% phase | \$ 3,300 | | | |
| Supp27 | Jacobs Internal Item | | | | Instrument air - per sketch with 60% design memo with client comments at 60% incorporated into that design. | | | 12/6/2019 | Continue discussion with City during 60%-90% phase | \$ 230,000 | | | |

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| | | | | | | | | Name | Date | | \$ 1,697,461 |
| Supp28 | Jacobs Internal Item | | | | WTR3 water system per sketch with 60% design memo with client comments at 60% incorporated into that design. 12" WTR3 fitting and valves not shown - assume valves at every 400', at every leg of tees and at capped ends. Assume restrained joint flanged caps as ends for removal for connection to future system. | | | | 12/6/2019 | 12" WTR line could be upsized to 14" from new the P&E building to HW2. Add a WTR3 feeder pipe to HW2 | |
| Supp29 | Jacobs Internal Item | | | | Scope at P&E buidling not all detailed in 60%. Cost estimate is based on: 1) rereoute interior sanitary drain piping to an existing sump in the lowedt level, Sludge Concentration Room, rom existing sanitary drain sources on ground floor. 2) replace existing sump pumps with (2) - 4HP, 460V, 3ph, with motor starters located in package panels. 3) reroute new dicharge pipe, 4" PVC, from sumppump system through south wall of facility, then buried in yard to tie-in to an existing 18" cooling water pipe at a new manhole. The CW gravity pipe is intercepting with new SD piping system east of existing HWK1 facility. 4)rereoute existing j8" roof draine pipe fron inside the facility, through an exterior wall to discharge on grade. | | | | 12/6/2019 | | |
| Supp30 | Jacobs Internal Item | | | | As allowed by the geotechnical report, pipe backfill material is assumed as per the following: - Pipe bedding material is a layer of recycled aggregate base and a layer of stabilization rock - Pipe zone material is recycled aggregate base - Backfill above pipe zone is native material and top soil - Backfill above pipe zone under a road is native material to the bottom of the road section | | | | 12/6/2019 | | |
| Supp31 | Client Direction | | | | Scope of work does not to include any electrical changes to the power sources of valves, gates or other instruments or equipment in Headworks 2. | | | | 12/6/2019 | | |
| Supp32 | Client Direction | | | | The fiber optic network will be hardwired and will be arranged per the sketches attached to the October 21st electrical and I&C workshop. | | | | 12/6/2019 | | |
| Supp33 | Subsurface Investigation Report | | | | The GMP was agreed upon before the subsurface report was finalized. The plan and profile drawings included in the subsurface investigation report superceed the 60% design documents. As the project advances from 60% to 100%, the starting point of the civil and yard pipe drawings will be the drawings included in the subsurface investigation report. | | | | 12/6/2019 | | |
| Process Decision Log | | | | | | | | | | | |
| DL01 | | | | | What is the driver for lining the Emergency Overflow Basin as part of the headworks project scope of work? | Liner is desired to allow the basin volume to be used by operations on a non-emergency basis to facilitate plant maintenance, shutdowns and other construction related events. 10/15/18 - Direction from stage gate is to incorporate concrete liner for the EOB. | | | 12/6/2019 | | |
| DL02 | | | | | As an option to achieve project budget, should the project consider defining a Phase 1 EPHWWF, allowing for expansion to accommodate the 2040 EPHWWF should it become a reality? | Evaluations and discussion at this workshop and others leading up to the stage gate determined that the facility will be designed for the 2040 EPHWWF. | | | 12/6/2019 | | |
| DL03 | | | | | Interceptor solids deposition and current flushing methods effectiveness | City provided information and descriptions that are documented in the workshop notes for treatment process alternatives No. 1 & No. 2 workshops. . 8/20/2019: The pumping before grit is a key improvement to the design in the 30% that will allow RWF to more easily "flush" interceptors. | | | 12/6/2019 | | |
| DL04 | | | | | Grit and screenings hauling truck traffic access | 8/20/2019: Access gate location could be Zanker Road gate or Los Esteros gate. Per 60% design, no permanent access and paving from Zanker is included in project. | | | 12/6/2019 | | |
| DL05 | | | | | Vactor and septage dumping - truck access, adequacy of current practice and benefits of incorporating improvements into HW3 design. Is a new septage receiving station required? | 10/11/2018 Jacobs will develop alternatives to the packaged units that will accommodate 2 simultaneous septage trucks; 20 septage trucks per day, that will directly discharge to HW3. Vactor trucks are much less frequent (couple per year) and they just need a slab that will drain so material can be dried and later disposed of. 11/29 Decision: at least two septage receiving stations - no package units. Use quick connect or route hose into drain into a customized cone. Locate as close to HW3 channel as possible. One vactor truck dumping station. See 11/29 meeting notes. 08/20/2019: See 60% design, 3 septage holes, one vactor location, pipe discharge to EBOS by gravity. | | | 12/6/2019 | | |
| DL06 | | | | | Structure A modifications - benefits, funding source, responsibility for operation | Structure A modifications will not be considered farther. Interceptor isolation to be developed at the EBOS in conjunction with HW3 flushing options. Any structure A improvements to allow the flow in that structure to be monitored at the Plant will be done outside of this contract | | | 12/6/2019 | | |
| DL07 | | | | | Impact of using Interceptor 1 only for current EPHWWF peak flow | Interceptor 1 receives flows from sources that cannot be isolated so this option is not viable. | | | 12/6/2019 | | |
| DL08 | | | | | Noise, environmental and odor control concerns, indicative design site vs. alternate site | Evaluated through the TBL+ update that was incorporated into the stage gate for site selection. | | | 12/6/2019 | | |
| DL09 | | | | | Degree of equipment automation desired | Equipment running automated. Startup after an outage is manually started up by staff in the control room. | | | 12/6/2019 | | |
| DL10 | | | | | Availability and reliability of plant water system | 8/20/2019: Use plant water as primary source and tap into adjacent 16" recycle water for backup. The W3 water will not be available at start-up so HW will use Recycled Water as primary until W3 is available. | | | 12/6/2019 | | |



San José-Santa Clara
Regional Wastewater Facility

Quality Review Form

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QRF Log Backcheck By City (2/1/2020)

New Headworks and Headworks Improvements Project

New Headworks Project - 60% Design Drawings and Specs City Backcheck

Submittal Date:

Reviewer/s:

Project No.:

10/9/2019

City/CIP/O&M

7477/7701

Backcheck Date2/1/2020

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| | | | | | | | | Name | Date | | \$ 1,697,461 |
| DL11 | | | | | | Need for HW2 chimney structure modifications | Chimney structure modifications are not required based on HW2 anticipated frequency of use and project budget constraints. | | 12/6/2019 | | |
| DL12 | | | | | | HW2 grit removal performance | Grit basin performance was discussed and will need to be optimized by controlling the level in the RSPS2 wet well. | | 12/6/2019 | The grit basin and associated pumping performance testing and acceptance protocols will need to be revised pending discussions with Jacobs and the vendor(s). Comments have been provided to Jacobs on revising the testing and acceptance protocol. | |
| DL13 | | | | | | Issues associated with exposed equipment | Discussion corrosion control and environmental concerns. 8/20/2019: See 60% design for protective coatings and material selections. | | 12/6/2019 | | |
| DL14 | | | | | | Issues associated with current degree of screening | Discussed issues associated with previous screens and new HW2 duperon screens. Included discussion of accumulation in digesters and new digester screening installation. | | 12/6/2019 | | |
| DL15 | | | | | | Screen type | Multi-Rake, PDR Table 4-4 | | 12/6/2019 | | |
| DL16 | | | | | | Screen media (perforated vs. bar and open area) | Multi-rake bar screens are preferred type, final decision on bar spacing to be made at 11/1 workshop. 11/1/18: Spacing discussed on 11/1 final decision to be made based on additional information to be provided by Jacobs. 11/29: Sizing will be 3/8". | | 12/6/2019 | | |
| DL17 | | | | | | One vs. two-stage screening | Two stage not recommended. | | 12/6/2019 | | |
| DL18 | | | | | | Method of screenings transport (sluice, screw, belt) | 8/20/2019: See 60% design submittal for latest. As part of City comments and discussions - belt conveyor eliminated. | | 12/6/2019 | | |
| DL19 | | | | | | Degree of screenings washing required | Proposed washer/compactor equipment is acceptable. | | 12/6/2019 | | |
| DL20 | | | | | | Degree of screenings compaction required | Proposed washer/compactor equipment is acceptable. | | 12/6/2019 | | |
| DL21 | | | | | | Number of redundant washer compactors | Use 4 washer compactors. | | 12/6/2019 | | |
| DL22 | | | | | | Issues associated with current degree of grit removal | NA | | 12/6/2019 | | |
| DL23 | | | | | | Issues associated with grit settling in screen channels | Issues with grit associated with interceptors and screen channels and EBOS. Incorporated into treatment alternatives no. 2 flushing options discussions. | | 12/6/2019 | | |
| DL24 | | | | | | Design grit cutpoint | Confirmed (6) 12x12 headcell units with ~170 micron cutpoint at ~40 mgd per unit. | | 12/6/2019 | | |
| DL25 | | | | | | Grit removal technology | Headcell, Submittal 02-1310-3 - Process Equipment Recommendations | | 12/6/2019 | | |
| DL26 | | | | | | Grit basin redundancy (HW3 or HW2) | Confirmed (6) 12x12 headcell units with ~170 micron cutpoint at ~40 mgd per unit for HW3. | | 12/6/2019 | | |
| DL27 | | | | | | Grit pump preference | Recessed impeller | | 12/6/2019 | | |
| DL28 | | | | | | Grit pump mechanical seals or packing | Mechanical seals are used throughout the plant. | | 12/6/2019 | | |
| DL29 | | | | | | Grit pump redundancy | Confirmed single inline duty grit pump per headcell with one shelf spare. | | 12/6/2019 | | |
| DL30 | | | | | | Continuous vs. intermittent grit pumping | Headcells operate on a continuous basis. | | 12/6/2019 | | |
| DL31 | | | | | | Grit slurry piping - dedicated pumps and washer vs. manifolding | Confirmed dedicated pumps and washer configuration per train. | | 12/6/2019 | | |
| DL32 | | | | | | Grit basin flush water - plant water or grit basin effluent | WTR3 will be primary source and RW will be secondary source for back-up. | | 12/6/2019 | | |
| DL33 | | | | | | Grit washer technology | PDR Table 4-9 and Submittal 02-1310-3 - Process Equipment Recommendations | | 12/6/2019 | | |
| DL34 | | | | | | Dewatered grit transport | Discussed option to utilize semi trailers in lieu of dumpsters at treatment process alternatives No. 2. Jacobs will follow up with additional information to confirm dumpster approach. 11/29: Dumpster arrangement confirmed with canopy and two installed dumpsters. Room for a spare on site. Units will continue to be removed by the contracted company. 08/20/2019: 60% design reflects new layout with 2 dumpsters and no belt conveyor. | | 12/6/2019 | | |
| DL35 | | | | | | Combined or separate screening and grit dumpsters | Plant currently separates screenings and grit and that is the basis of their current disposal contracts so direction is to maintain separate operation. | | 12/6/2019 | | |
| DL36 | | | | | | Haul truck traffic issues | 8/20/2019: Per 60% design, no permanent access and paving from Zanker is included in project, just lots of paving around new headworks area. | | 12/6/2019 | | |
| DL37 | | | | | | Open vs. covered dumpster vs fully enclosed in a building | 10/11/18: Issue has been discussed but firm decision/direction has not been confirmed. Open dumpsters appear to be acceptable if screenings and grit washing is up to current technology capability. 11/15 update: Odor concerns have been raised again on 11/15 and odor modeling is being performed to help make a determination if the dumpsters should be open/enclosed/covered. 11/29 update: additional odor simulations ran confirming dumpsters are not a significant odor source. the dumpsters will continue to be located under a canopy. a means to pull off odor to the odor control system will continue to be evaluated. 08/20/2019: 60% design - not enclosed, but future drops for connecting to odor control system for dumpsters provided. | | 12/6/2019 | | |
| DL38 | | | | | | Dumpster loading method | 11/1/18: Discussed at workshop, Jacobs to propose additional dumpster configuration alternatives/ideas. 11/29: dumpster configuration confirmed. See presentation for layout. 08/20/2019:60% design shows new dumpster loading with no belt conveyor. | | 12/6/2019 | | |
| DL39 | | | | | | Dumpster ownership | Confirmed dumpsters are owned by contract hauler. Intend to continue this approach. | | 12/6/2019 | | |
| DL40 | | | | | | Influent pump location up/down stream of grit removal? | Pumping before grit allows for flushing of interceptors. This should reduce the concern that slugs of grit/debris get flushed into the headworks during a storm. Documented by e-mail (see #153) and in 30% design and associated documents. | | 12/6/2019 | | |

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TABLOID REVIEW FORM | HW Project 60 percent QRF_20191018 - City Responses_20200212_R3.xlsx

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| Reviewer | | | | | | Originator | Resolution | | Reviewer | |
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| # | Reviewer | Critical Issue | Page Index | Reference Drawing, Specification, | Comments / Questions | Resolution / Response | Name | Date | Back-Checked & Approved | Cost |
| | | | | | | | | | | \$ 1,697,461 |
| DL41 | | | | | Influent pump type | Submittal 02-1310-3 - Process Equipment Recommendations confirms VTSH pump station over a dry pit pump station configuration and corresponding TBL+ analysis. | | 12/6/2019 | | |
| DL42 | | | | | Influent pump wet well type | Design per HI standards based on selected pump type requirements. | | 12/6/2019 | | |
| DL43 | | | | | Flow metering up/down stream of pumping | 08/09/18: PDR moved flow metering upstream of pumping. Jacobs to further explore this concept after site selection is made. 10/15/18: Leading up to stage gate selection decision to meter flow downstream of pumps with multiple small meters was confirmed at site selection No. 2 workshop. | | 12/6/2019 | | |
| DL44 | | | | | Interceptor odor control (degree of upstream negative pressure) | Given upstream EBOS and hydraulic conditions odor control of interceptors by the headworks 3 system is not feasible. | | 12/6/2019 | | |
| DL45 | | | | | Odorous air treatment technology at headworks 3 | Ability to treat H2S > 100 ppm within equipment performance guarantees. | | 12/6/2019 | | |
| DL46 | | | | | Indicative Design Site or Near EBOS Site | BDR shows site and 30% confirms near EBOS site as path forward. | | 12/6/2019 | | |
| DL47 | | | | | What levels for decision making are defined | | | 12/6/2019 | | |
| DL48 | | | | | What are the criteria for revisiting/changing a previous decision? Who approves re-evaluation? | Project team will evaluate on a case by case basis. | | 12/6/2019 | | |
| DL49 | | | | | Which decisions can be made in workshops (impact rating system)? | Use this log to screen for decisions that must be escalated. | | 12/6/2019 | | |
| DL50 | | | | | Which decision go to interim stage gate? What documentation is required. Other info needed to make site selection decision? | Use this log to screen for decisions that must be escalated. | | 12/6/2019 | | |
| DL51 | | | | | Do any of the TBL+ criteria need updating? | TBL+ updated and developed for site selection No. 2 workshop. | | 12/6/2019 | | |
| DL52 | | | | | What are the Near EBOS site odor control issues? | Issues reviewed and discussed at site selection No. 2 workshop. BTF system can meet odor model assumptions for RWF odor fence line. | | 12/6/2019 | | |
| DL53 | | | | | What is the extent/character of grit settling in the EBOS? | City has provided information and photos on the amount of grit that settles in the EBOS. Some improvements will be made, but a wide spot in the line for large debris is a valuable feature. | | 12/6/2019 | | |
| DL54 | | | | | Overall maintenance access, including electrical | The 60% design shows a full basement under the electrical building. | | 12/6/2019 | | |
| DL55 | | | | | Interceptor configuration/future changes to interceptors | Discussed at multiple workshops. HW3 facility at near EBOS site is considered better for future interceptor changes. | | 12/6/2019 | | |
| DL56 | | | | | Grit basin configuration (opposing basins vs. lined up) | 08/09/18: City comment (from Ed Fernbach) is that Jacobs should proceed with layout that provides best performance, dependent upon site selection location.08/20/2019: 60% design shows latest layout; Includes incorporation of some City modifications suggested at 30%. | | 12/6/2019 | | |
| DL57 | | | | | Overall headworks equipment redundancy philosophy confirmation of the N+1 between both headworks approach at either site location. | 08/09/18: City expressed concern with N+1 being shared between HW2 and HW3, when HW3 is in Near EBOS location. 08/13/18: City stated they are more confident in shared N+1, when HW3 is in Near EBOS location. City asked Jacobs to further evaluate hydraulics when HW3 units are offline. 11/15: decision made to have HW3 be able to pass 209mgd with one unit off line. See decision 141 | | 12/6/2019 | | |
| DL58 | | | | | Electrical gear shall be powered from M3 and M5 | Direction provided by Nelso. Drawings provided on 10/10 showing spare breaker locations; 2019-08: 60% design shows this design decision. | | 12/6/2019 | | |
| DL59 | | | | | Facility numbers and available loop numbers are required for all facilities that will be modified/added as part of this project. | question submitted via RFI on 10/11. Running list being provided to Jacobs as additional facilities are identified. 8/20/2019: 60% design shows this design decision. | | 12/6/2019 | | |
| DL60 | | | | | NEMA 1 enclosures should be specified for MCCs | Direction provided by Nelso on 10/10 site visit and meeting | | 12/6/2019 | | |
| DL61 | | | | | There is at least 1 spare 5" between coming out of M3 and M5 to use within the existing ductbank systems | Direction provided by Nelso on 10/10 site visit and meeting | | 12/6/2019 | | |
| DL62 | | | | | There will be an HOA switch on a VFD and no hand control (except to look at status) on the VFD HIM | Direction provided by Nelso on 10/10 site visit and meeting | | 12/6/2019 | | |
| DL63 | | | | | Feeders from M3 and M5 can be combined in a single ductbank but should be routed through separate handholes | Direction provided by Nelso on 10/10 site visit and meeting | | 12/6/2019 | | |
| DL64 | | | | | No sole source on switchgear is required. They can be Eaton, Powell, or ABB/GE, would like relays and breakers as defined in documentation handed to us at the meeting | Direction provided by Nelso on 10/10 site visit and meeting | | 12/6/2019 | | |
| DL65 | | | | | Zone interlock not needed for S level switchgear | Direction provided by Nelso on 10/10 site visit and meeting | | 12/6/2019 | | |
| DL66 | | | | | VFDs shall be heavy duty instead of normal duty | Direction provided by Nelso on 10/10 site visit and meeting | | 12/6/2019 | | |
| DL67 | | | | | 4160V to 480V transformers cannot exceed 2000kVA | Direction provided by Nelso on 10/10 site visit and meeting | | 12/6/2019 | | |
| DL68 | | | | | Map or schematic of the DCS fiber system throughout the plant including handholes, available spares, patch panel locations, duct bank routing and number of strands – to be provided by City of San Jose | Provided in 10/18 workshop; 08/20/2019: Additional fiber splicing and rerouting requested. City confirm 60% meets expectations. | | 12/6/2019 | | |
| DL69 | | | | | The design criteria states that outdoor electrical equipment needs a heater. Does this include local control stations and disconnects? | Direction provided in 10/18 workshop. | | 12/6/2019 | | |
| DL70 | | | | | Conformity of stainless steel, 304SST or 316SST - to be discussed among all Jacobs disciplines with recommendation made to City | Discussion noted that RS has high chlorides. Dan to track down the location of this data for documentation. | | 12/6/2019 | | |
| DL71 | | | | | Would like an example make and model for disconnects with auxiliary contacts for 1 phase and 3 phase loads – to be provided by City of San Jose | | | 12/6/2019 | | |
| DL73 | | | | | List of manholes Jacobs would like investigated. Either with a list of conduits and cables routed through them or pictures/videos of them – list to be provided by Tiana, investigation by City of San Jose | 8/20/2019: All information available form the city has been provided. | | 12/6/2019 | | |
| DL74 | | | | | Confirm MCC starters are to have all signals hardwired in addition to Modbus cable. | 8/20/2019: 60% shows both being provided. Clear direction was not provided in workshops. | | 12/6/2019 | | |
| DL75 | | | | | Confirm VFDs for influent pumps are to be 18 pulse with no bypass starters. | see workshop notes for discussion | | 12/6/2019 | | |
| DL76 | | | | | Confirm if a stand alone UPS is required for backing up power for DCS, instrumentation and fire alarm panel. | Discussed at workshop. City to provide a preferred manufacturer list. | | 12/6/2019 | | |



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| File Name: | | <i>QRF Log Backcheck By City (2/1/2020)</i> | | Submittal Date: | | <i>10/9/2019</i> | |
| Project Name: | | <i>New Headworks and Headworks Improvements Project</i> | | Reviewer/s: | | <i>City/CIP/O&M</i> | |
| Document: | | <i>New Headworks Project - 60% Design Drawings and Specs City Backcheck</i> | | Project No.: | | <i>7477/7701</i> | |
| | | | | Backcheck Date | | <i>2/1/2020</i> | |

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| | | | | | | | Name | Date | | \$ | |
| DL77 | | | | | Is all mechanical and electrical equipment that is required to operate the Headworks Facility intended to be seismically certified through shake table testing as required for Risk Category IV structures? | 30% comment had implication that equipment and structures should meet Risk Category IV. 8/20/2019: See 60% design specification section 01 45 36 for Equipment Seismic Certification requirements and equipment list of items where certification is requested. Need calculations and self-certification by mfr. No shake table testing is being required. | | 12/6/2019 | | | |
| DL78 | | | | | Digital inputs and outputs to the DCS are to be 24V DC | City stated preference is 24V for staff safety. | | 12/6/2019 | | | |
| DL79 | | | | | What is the desired auto restart sequence for the facility? | After outage the plant is started up manually via the control room. | | 12/6/2019 | | | |
| DL80 | | | | | There will be no PLCs in local control panels at equipment. DCS will control process equipment. | 8/20/2019: FAT for process equipment will not include any controls testing. Controls will be provided by ABB panels. | | 12/6/2019 | Note that Jacobs should include spec revisions to specification 23 13 13, Section 2.17 provided as part of the 60% comments. This will be noted in Bluebeam. | | |
| DL81 | | | | | Workstation in the to be included in the DCS/Control Room. What kind of work station is desired? | Dual screen workstations with thick clients. | | 12/6/2019 | | | |
| DL82 | | | | | What MIS networks are required? City Enterprise, Telephone, CCTV, Security? Fire alarm is anticipated. | Enterprise network, CCTV, telephone, provisions for security | | 12/6/2019 | | | |
| DL83 | | | | | What are the preferred vendors for instrumentation instruments? | Discussed at workshop. City to provide a preferred manufacturer list. 8/20/2019: 30% comments provided direction and has been incorporated into the design. | | 12/6/2019 | | | |
| DL84 | | | | | What should the new DCU number be? City provided numbering | 8/20/2019: City has not provided direction on the number to use. The 60% has place holder numbers that will be updated once direction if provided. | | 12/6/2019 | | | |
| DL85 | | | | | Review of the procurement strategy for I&C equipment and integration on Cogen and discuss the potential for a different approach on this project. | 08/20/2019: I&C procurement package reviewed with City that has roles of Jacobs as coordinator and ABB/TSI as software integrator; panels will be built and procured through ABB/TSI. Jacobs to procure instruments. | | 12/6/2019 | | | |
| DL86 | | | | | What version of electrical codes are to be followed? Current listing is CEC – California Electrical Code (2016) California Energy Code (2016) NFPA 70E – Standard for Electrical Safety in the Workplace NFPA 820 – Standard for Fire Protection in Wastewater Treatment and Collection Facilities IBC – International Building Code (2012), California amendment (2013) NFPA 70 – National Electric Code (2011) | The codes are listed in the BDR. | | 12/6/2019 | | | |
| DL87 | | | | | What utility services does the city want stubbed up/routed to Headworks 3, regardless if it is needed as part of this project or not?. See notes below. WTR3 and instrument air are both being added as part of this project | 2019-02: 30% comment request air line. 2019-08: See 60% design for assumptions on piping for plant instrument air and for WTR3. | | 12/6/2019 | | | |
| DL88 | | | | | Are bypass starters required for the raw sewage pumps? (the HDWK 2 pumps have VFDs with bypass starters | Discussed at workshop that the redundancy is built in via the number of process trains. 2019-08: 60% design shows no bypass starters. | | 12/6/2019 | | | |
| DL89 | | | | | When will an up-to-date PTW short circuit and coordination study be available? | City to provide short circuit level for the MV feeders now. Updated model to be provided closer to 60%. | | 12/6/2019 | | | |
| DL90 | | | | | How many spare breakers are desired in the MV switchgear? | 2019-08: See 60% design for assumptions on spares. City discussed adding more capacity for future such as storm drain pump station. | | 12/6/2019 | | | |
| DL91 | | | | | When are disconnects required? | Design criteria is not consistent. City provided direction. | | 12/6/2019 | | | |
| DL92 | | | | | What kind of enclosures are preferred in wet/indoor locations | Nema 4X | | 12/6/2019 | | | |
| DL93 | | | | | What electrical equipment located outdoors requires heaters? | Motors only. Not required for control stations. | | 12/6/2019 | | | |
| DL94 | | | | | Are spare conduits required for the 5KV ductbanks? | one spare from each substation for new ductbanks. | | 12/6/2019 | | | |
| DL95 | | | | | Design criteria for UPS sizing is to be based on 30 minutes at full load + 50%. | | | 12/6/2019 | | | |
| DL96 | | | | | Where should instrument power come from? UPS via the DCS or UPS via a panelboard? | Panelboard. | | 12/6/2019 | | | |
| DL97 | | | | | Is CCTV required? | 2019-08: See 60% design for assumptions on camera locations. City is asked to review them as part of the 60%. | | 12/6/2019 | | | |
| DL98 | | | | | What security provisions are required? | Conduit and pull boxes for door switches and card readers. No decision made on door hardware. Route conduits to the same panel as the CCTV. 2019-08: Need City to confirm security camera assumptions are okay. | | 12/6/2019 | | | |
| DL99 | | | | | What system are combustible gas detectors tied to? SCADA or Fire Alarm | SCADA | | 12/6/2019 | | | |
| DL100 | | | | | What is the design criteria for the public address system? | 2019-08: Still needs to be confirmed. At this time no provisions included for the public address system. | | 12/6/2019 | | | |
| DL101 | | | | | What is the design criteria for the radio system? | Radio extenders to be provided as needed. 2019-08: Need information from City on required equipment. | | 12/6/2019 | | | |
| DL102 | | | | | What is the design criteria for the telephone system? | Telephone is voice over IP. MIS system will extend this system to the electrical building. City to install the phone system. | | 12/6/2019 | | | |
| DL103 | | | | | Electrical equipment and systems analysis design criteria | see workshop notes | | 12/6/2019 | | | |
| DL104 | | | | | I&C equipment design criteria | see workshop notes | | 12/6/2019 | | | |
| DL105 | | | | | What type of HVAC is desired for the Electrical Building? DX vs Evap cooling? Packages vs custom? Ground mount vs wall or roof mount? Custom vs packages? | BDR shows 100% redundant indirect evaporative cooling. 2019-08: 60% design shows latest two units on roof. | | 12/6/2019 | | | |
| DL106 | | | | | Size of trucks that need to access headworks 3 | Refer to architectural guidelines. | | 12/6/2019 | | | |
| DL107 | | | | | Ability to take emergency overflow basin out of service during construction | 2019-08: the lime treatment and concrete lining of basin cannot be completed in dry season only. Construction activities will need to be done year round. The regional quality control board will need to be notified it will be out of service. | | 12/6/2019 | | | |
| DL108 | | | | | Architectural design criteria for ADA access, LEED certification, Cal Green and Solar Access on Roof Tops. | 2019-08: Decisions reflected in 60% design. | | 12/6/2019 | | | |
| DL109 | | | | | Emergency basin equipment access design criteria | 980 loader and backhoes on ramp and slab. No vehicular access on slopes | | 12/6/2019 | | | |
| DL110 | | | | | Utility Water will have two power sources - the recycled water line and the W3 water loop | 2019-08: See yard piping. W3 loop at HW3, it will be feed with RW until W3 work is completed. Need to confirm interim back-up source. | | 12/6/2019 | | | |

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|  | | San José-Santa Clara Regional Wastewater Facility | | | | Quality Review Form | | | | |
| File Name: | | QRF Log Backcheck By City (2/1/2020) | | | | Submittal Date: | | 10/9/2019 | | |
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| | | | | | | | Name | Date | | |
| DL111 | | | | | What should the FEE of the facilities be? | 2019-08: 60% design assumed 13.0 FFE for electrical building and transformers per direction from workshops and CIP project management team. | | 12/6/2019 | | |
| DL112 | | | | | What will the main access point be for septage haulers for the new Headworks 3 site? | 2019-08: The site is being designed to accommodate traffic flow from either direction. The 60% documents show the main access to be from the main gate. No improvements to the culvert/bridge have been included, per direction from the program. The road will continue to be one-lane. | | 12/6/2019 | | |
| DL113 | | | | | The only parking planned for a the site will be service vehicles and as required for handicap parking. | | | 12/6/2019 | | |
| DL114 | | | | | Although not currently shown as on the site tour route, the facility should be designed to expect tours. The facility will be designed to comply with Zone 4 architectural aspects. | | | 12/6/2019 | | |
| DL115 | | | | | Does the City have a preference to the electrical building materials? CMU vs. metal (the current pricing is based on metal). | CMU Block. Architectural features to comply with Zone 4 requirements and similar to HDWK 2 electrical building. | | 12/6/2019 | | |
| DL116 | | | | | Confirm feasibility of shutting down C street to vehicular traffic between California Structure and RS Pump Station. | is being done for construction activities but not permanently | | 12/6/2019 | | |
| DL117 | | | | | what should the design capacity of the emergency basin be? | Hydraulics show 12mgd is needed based on the current flow management strategy. The overflow weirs can be raised to accommodate this without modifications to the basin walls. | | 12/6/2019 | | |
| DL118 | | | | | Electrical building to have toilet room located adjacent to the control room with exterior access for the septage haulers. Provide natural light within the rooms via windows where possible (no sky lights). Battery room to have exterior access, as well as interior access if possible. | yes | | 12/6/2019 | | |
| DL119 | | | | | Handrails shall be 3-rail. | yes | | 12/6/2019 | | |
| DL120 | | | | | Routing of the 96" to California structure and connection from California structure to RS PS to be determined, potentially rerouted. 3/21 update: final determination was to rout from HW3 to the CA structure through C Street. | Multiple routes to be evaluated and presented in BDR. | | 12/6/2019 | | |
| DL121 | | | | | Structural, civil and architectural design criteria as noted in the workshop presentation. | | | 12/6/2019 | | |
| DL122 | | | | | Dumpster loading method | Local control/no cables | | 12/6/2019 | | |
| DL123 | | | | | Grit conveyance technology | 2019-08: Belt conveyor was called for in the PDR but was deleted per 30% comment. | | 12/6/2019 | | |
| DL124 | | | | | Confirm if Knife Gate Valves are acceptable for raw sewage isolation valves | Bonnetless knife gates | | 12/6/2019 | | |
| DL125 | | | | | Confirm if pinch valves are acceptable for grit isolation valves. | 2019-08: Included in 60% design and no comments received on valves. | | 12/6/2019 | | |
| DL126 | | | | | Confirm preferred valves, gate and actuator vendors | Limatorque | | 12/6/2019 | | |
| DL127 | | | | | Confirm air conditioner type and location for electrical room equipment. | 2019-08: Design around one vendor, but allowing for 3 potential vendors. | | 12/6/2019 | | |
| DL128 | | | | | Confirm if smoke purge-removal ventilation is required for MCC rooms. | 2019-05: 30% design has no fire sprinkler or fire suppression equipment. SJFD had comment asking if it would be provided. 2019-08: Jacobs response - not required by code based on building size. 60% design has no fire suppression equipment for electrical building or any structure for that matter. City requested fire alarm be included. | | 12/6/2019 | | |
| DL129 | | | | | Confirm if potassium permanganate chemical filters are required for hvac units. | 2019-05: were not required based on discussion with plant staff and were not included in the BDR. 2019-08: they have been included for the 60%. Have specified the refillable cartridges. | | 12/6/2019 | | |
| DL130 | | | | | Verify if galvanized ductwork is acceptable in electrical rooms | 2019-05: recommended by HVAC engineer and were included in 30%. | | 12/6/2019 | | |
| DL131 | | | | | Is the Honeywell WEBs-AX/Niagara AX unit required for HVAC controls? | 2019-08: the HVAC control is not sole sourced in the 60%. | | 12/6/2019 | | |
| DL132 | | | | | Discuss submerged sump inlets | 2019-08: This is not being included as it is not Jacobs best practice. This was not included in the BDR and no comment was made. | | 12/6/2019 | | |
| DL133 | | | | | What is required for make-up air filtration? | 2019-08: provided chemical filters as noted in comment 131. | | 12/6/2019 | | |
| DL134 | | | | | Confirm water type for fire protection, WTR1 or WTR4? Is it looped? | HW project needs to coordinate with the CIP Fire Protection and Life Safety program that is currently developing updated requirements. Later follow-up provided to use looped WTR4. | | 12/6/2019 | | |
| DL135 | | | | | Is this project to bring the water service to the site? | Interface points are currently being coordinated. 2019-05: W1 brought to site. 2019-08: See 60% for water service assumptions - using W1, W4, RW with future W3. | | 12/6/2019 | | |
| DL136 | | | | | Is a fully automatic fire sprinkler system desired? 2/27: with the move of the electrical building away from the other facilities all buildings are exempt. No system required. | Preference is to avoid fire suppression systems. Recent project experience with fire department has required dry systems in electrical rooms. Will address with fire department. This City does not want wet pipe sprinklers in electrical rooms. | | 12/6/2019 | | |
| DL137 | | | | | Is odor control required at headworks 2? If so what technology? | 11/8/18:Recommendation to defer HW2 odor control to future project to be combined with primary clarifier odor control project. 11/29/18: It was agreed to by Isaayas that HW2 odor control is not required as part of this project to address odor issues. See workshop notes for additional details on the additional modeling completed that resulted in this decision. | | 12/6/2019 | | |
| DL138 | | | | | Is HDPE an acceptable alternative to glass lined Ductile Iron | Existing plant has lots of gldi, maintenance staff expressed preference to maintain consistency. 2019-08: BDR and 30% comments were made by City (Ed) to specify HDPE. Both materials are specified as acceptable options. | | 12/6/2019 | | |
| DL139 | | | | | Confirm filter backwash overflow routing approach that was proposed in the 2012 drawing set can be carried forward and implemented. | PDR indicated this flow was to be routed to Recycle PS2 but that is not feasible due to size and gravity flow routing constraints. This was not the concept developed in 2012. Best solution is to route by gravity as proposed in 2012. 2019-08: Design evolution shown in 60% so the filter backwash flow shall be routed to the coffin structure via an existing 84" pipeline. A box shall be added to tie in the new pipe to the existing line. Cross-reference with item #169 | | 12/6/2019 | | |
| DL140 | | | | | Flow measurement method for Headworks 2. 3/1: Decision made to back calculate the flow measurement | See item #166. No HW2 meter replacement or changes. | | 12/6/2019 | | |



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| | | | | | | | Name | Date | | |
| DL177 | | | | | Primary Clarifier Influent meters (total 4) and valves to be replaced in-kind to match existing. Improvements are not designed to include the automation guideline requirements. | Based on discussions with CIP management. | | 12/6/2019 | | |
| DL178 | | | | | Existing pumps to be replaced will be replaced in kind, reusing existing electrical wiring and motor controls. Improvements are not designed to include electrical or automation guideline standards. | Based on discussions with CIP management. | | 12/6/2019 | | |
| DL179 | | | | | For Primary Clarifier Influent meters (total 4) replacement, will need to do during dry weather and lines drained. No back-up pumping or piping to be provided when piping north and south of PEP are shutdown. | | | 12/6/2019 | | |
| DL180 | | | | | For Primary Clarifier Influent meters (total 4) to be replacement which will need piping north and south of PEP are shutdown, no condition assessment work is included. | | | 12/6/2019 | | |
| DL181 | | | | | No abandoned pipes are filled. | Per City Standard 15.2.02E, abandoned pipes are to be filled. Not included in this project. | | 12/6/2019 | | |
| DL182 | | | | | The Replica model has been aligned with the City hydraulic model (InfoWorks) and is acceptable. | On-site meetings occurred July 16-17 where the Jacobs (Replica) model and CDM (InfoWorks) model were compared and minor tweaks made. It was agreed the Replica and InfoWorks models are aligned and acceptable to the city. | | 12/6/2019 | | |
| DL183 | | | | | Update Division 01 with no changes to Parts 1 to 3. Make changes in Part 4 with City approval. | Coordinate with Hawkins contract. | | 12/6/2019 | | |
| DL184 | | | | | All grubblings, excavated soil, and base rock will remain on-site. | | | 12/6/2019 | | |
| DL185 | | | | | Provide provisions for future carbon unit for odor control system. | This is permit driven to facilitate the need for permanement or temporary | | 12/6/2019 | | |
| DL186 | | | | | Provide carbon canister to serve the Bio Tricking Filter. | Recycle Water will be used as the primary water source unit until the WTR3 loop is available. Once WTR3 is the primary source, RW will remain as a potential backup. This is required because because the recycle water has high residual chlorine that can kill the bacteria. | | 12/6/2019 | | |
| | | | | | | | | | | |

Quality Review Form

File Name: QRF Comments from City Bluebeam Session
 Project Name: New Headworks and Headworks Improvements Project
 Document: New Headworks Project - 60% Design Drawings

Review Date: 10/18/2019
 Reviewer/s: City/CIP/O&M
 Project No.: 7477/7701

**** CIP comments are on gray rows. Jacobs responses are in the white row direction below the comment

\$ 333,829

| | | | | | | | | | Direct Costs (Appropriate markups addressed in the Cost Model by company) |
|---|---------------|--|---------------------------|-----------|----------|--------------------|---------------|-------------|--|
| Author (in gray rows) Responder (in white rows) | Page Label | Comments (in gray rows) | Responses (in white rows) | Commenter | Category | Assigned Responder | Date Answered | Backchecked | |
| VOLUME 1 | | | | | | | | | |
| TAKEMOTOMW | 01 14 00-1 | 01 14 00 1.03 A. - "Essential elements" is vague and should be better defined. | | | 3 | Ryan | | | |
| jr011131 | 01 14 00-1 | This is City standard language. City to suggest an allowable change. | | | 3 | | 10/31/2019 | | |
| | | General Div 01 - Comments: - There are lot of repetitive requirements and statements within and amongst the Div 01 specifications. - Reference names are not consistently used in the Div 01 specs. For example, City, Jacob's Engineer, Design-Builder, and subcontractor are used and the relationship amongst these terms is unclear. Some specs read as if they are requirements for the design-builder and some appear to be for the subcontractor. - Confirm applicable CBC code, i.e. 2016 or 2019 CBC. | | | 3 | Ryan | | | |
| TAKEMOTOMW | 01 14 00-1 | City is requesting a complete update using latest updated Div-01, some are still be provided. The terms for DB will become CONTRACTOR and all others become ENGINEER - this is all City provided items. | | | 3 | | 10/31/2019 | | |
| jr011131 | 01 14 00-1 | 01 14 00 1.04 A. - Facility Main Gate needs to be defined and/or shown on the drawings | | | 3 | Ryan | | | |
| TAKEMOTOMW | 01 14 00-2 | This can be modified. | | | 3 | | 10/31/2019 | | |
| jr011131 | 01 14 00-2 | 01 14 00 1.04 D. suggest defining chemical or other deliveries frequency and route. Define any other specific routes are access points within the construction work limits. | | | 3 | Ryan | | | |
| TAKEMOTOMW | 01 14 00-2 | Good idea. Need City to provide this information. | | | 3 | | 10/31/2019 | | |
| TAKEMOTOMW | 01 14 00-3 | 01 14 00 1.06 A.2 - Are they 28 days calendar days? | | | 3 | Ryan | | | |
| jr011131 | 01 14 00-3 | yes, all Div-01 will be revised to City version. | | | 3 | | 10/31/2019 | | |
| TAKEMOTOMW | 01 14 00-3 | 01 14 00 1.06 - Are there any limitations on the length of shutdowns, seasonal restrictions, etc? | | | 3 | Ryan | | | |
| jr011131 | 01 14 00-3 | This has been submitted to City and they are reviewing the proposed shutdowns table. | | | 3 | | 10/31/2019 | | |
| TAKEMOTOMW | 01 14 00-4 | 01 14 00 1.08 D - The main process units are not included it the list required facilities for operation? | | | 3 | Ryan | | | |
| jr011131 | 01 14 00-4 | This is City standard language. Does City want us to add this in Part IV? This is certainly implied elsewhere. | | | 3 | | 10/31/2019 | | |
| TAKEMOTOMW | 01 14 00-6 | 01 14 00 1.09. B. - Does this requirement apply to Minor shutdowns as well? | | | 3 | Ryan | | | |
| jr011131 | 01 14 00-6 | Good. This is being revised with proposed shutdown table. There will need to be process interruptions outside of this window. | | | 3 | | 10/31/2019 | | |
| TAKEMOTOMW | 01 14 00-9 | 01 14 00 3.05 - Seem like some of the PSR descriptive text should be in Part 1.07 instead of in Part 3.05. | | | 3 | Ryan | | | |
| jr011131 | 01 14 00-9 | Makes some sense. This City standard, so need input if they want to do this change now or later | | | 3 | | 10/31/2019 | | |
| TAKEMOTOMW | 01 14 00-9 | 01 14 00 3.04 - Project specific work sequence descriptions, requirements, milestones, etc. need to be added. | | | 2 | Ryan | | | |
| jr011131 | 01 14 00-9 | Agree. Table of proposed shutdowns had been provided to City for review and further refinement. The plan is to add to this section. | | | 3 | | 10/31/2019 | | |
| TAKEMOTOMW | 01 31 13-2 | 01 31 13 1.03 B. - Confirm acceptable documentation. Photos, video, other? | | | 3 | Ryan | | | |
| jr011131 | 01 31 13-2 | This specification will be removed. | | | 3 | | 10/31/2019 | | |
| TAKEMOTOMW | 01 33 00-2 | 01 33 00 1.01 J. - 2019 CBC goes into effect Jan 1, 2020. Confirm applicable version | | | 3 | Ryan | | | |
| jr011131 | 01 33 00-2 | Package submitted to City building department for review under 2016, so our understanding is that this is the code to use for this project. If different code is necessary, City needs to confirm ASAP. | | | 3 | | 10/31/2019 | | |
| TAKEMOTOMW | 01 35 43.01-1 | 01 35 43 1.02 A.1 - Not clear what the "construction enabling area" is. The City is responsible for dust control in this area? | | | 3 | Ryan | | | |
| jr011131 | 01 35 43.01-1 | Under discussion with City. This will need to be a shared responsibility among on-site contractors. We plan one water truck that can be used to water main road in the enabling area when we use it for construction activities. | | | 3 | | 10/31/2019 | | |
| TAKEMOTOMW | 01 35 43.01-1 | 01 35 43 1.02 A. - Is RWF the same as "Facility"? | | | 3 | Ryan | | | |
| jr011131 | 01 35 43.01-1 | Yes, should be FACILITY. New version from City should correct this. | | | 3 | | 10/31/2019 | | |
| TAKEMOTOMW | 01 45 00-3 | 01 45 00 1.05 - Update CBC references as appropriate. | | | 3 | Ryan | | | |
| jr011131 | 01 45 00-3 | Okay. | | | 3 | | 10/31/2019 | | |
| TAKEMOTOMW | 01 50 00-1 | 01 50 00 1.02 A.4.a - Appears the text for 4.a should be part of item 4., not the first item under item 4. | | | 3 | Ryan | | | |
| jr011131 | 01 50 00-1 | City to confirm but we think this is City's intent. Will review. | | | 3 | | 10/31/2019 | | |
| TAKEMOTOMW | 01 50 00-2 | 01 50 00 1.04 A - The location and availability of power needs to be confirmed | | | 3 | Ryan | | | |
| jr011131 | 01 50 00-2 | This will be updated based on negotiations of GMP. Power to be used from City. | | | 3 | | 10/31/2019 | | |
| TAKEMOTOMW | 01 50 00-2 | 01 50 00 1.04 D - The location and availability of water needs to be confirmed | | | 3 | Ryan | | | |

| Author (in gray rows) Responder (in white rows) | | | | | | | | Direct Costs (Appropriate markups addressed in the Cost Model by company) |
|--|-------------|---|---------------------------|-----------|----------|--------------------|---------------|--|
| | Page Label | Comments (in gray rows) | Responses (in white rows) | Commenter | Category | Assigned Responder | Date Answered | Backchecked |
| jr011131 | 01 50 00-2 | Okay. Does City want to add additional items. May want to add filling of EOB and water for testing? | | | 3 | | 10/31/2019 | |
| TAKEMOTOMW | 01 50 00-3 | 01 50 00 1.04 D.4 - Any flow or quality requirements for the discharge or return of testing or other water to the treatment plant? | | | 3 | Ryan | | |
| jr011131 | 01 50 00-3 | No limitations identified, but could be added - might add for diesel impacted groundwater volumes/levels. | | | 3 | | 10/31/2019 | |
| TAKEMOTOMW | 02 41 00-1 | Suggest defining "Abandon" | | | 3 | Ryan | | |
| jr011131 | 02 41 00-1 | Okay, can be done. | | | 3 | | 10/31/2019 | |
| VOLUME 2 | | | | | | | | |
| Marianojl | 26 05 05-20 | Where is the circuit schedule designation convention shown? | | | 3 | Michaud | 10/20/2019 | |
| ttom | 26 05 05-20 | Circuit schedules are on the drawings and are: P = power C = discrete A = analog D = data designation above followed by end device equipment tag number. Will add description of designation to the legend. | | | 3 | | | |
| Marianojl | 26 05 33-29 | Similar to conductors, where is the raceway schedule designation convention shown. | | | 3 | Michaud | 10/20/2019 | |
| ttom | 26 05 33-29 | Will modify sentence. Convention will be identified on the legend. Raceways shall be source and load at each point. | | | 3 | | | |
| Marianojl | 26 05 70-1 | Will harmonic analysis be included? | | | 3 | Michaud | 10/20/2019 | |
| ttom | 26 05 70-1 | No, after initial analysis via design, no further harmonic analysis is needed as there are not many drives on the LV system and the MV drives sufficient to mitigate harmonics. | | | 3 | | | |
| nelsopetroni | 26 05 70-1 | Harmonic analysis study will not be required. However, during the commissioning harmonic distortion readings should be taken. N. Petroni | | | 3 | Michaud | 10/20/2019 | |
| ttom | 26 05 70-1 | Can add. | | | 3 | | | |
| nelsopetroni | 26 09 13-2 | | | | 3 | Michaud | 10/20/2019 | |
| ttom | 26 09 13-2 | will revise | | | 3 | | | |
| nelsopetroni | 26 09 13-2 | BE1-851 | | | 3 | Michaud | 10/20/2019 | |
| ttom | 26 09 13-2 | Will revise | | | 3 | | | |
| nelsopetroni | 26 09 13-5 | SEL587Z | | | 3 | Michaud | 10/20/2019 | |
| ttom | 26 09 13-5 | Will revise | | | 3 | | | |
| nelsopetroni | 26 12 02-4 | Minimum of 5% ?? | | | 3 | Michaud | 10/20/2019 | |
| ttom | 26 12 02-4 | Can go lower from some manufacturers, but likely in the 5-6% range. Can add a minimum if desired. the LV MCC is rated for 65kA so the lower %Z is not a concern. | | | 3 | | | |
| nelsopetroni | 26 12 02-5 | Fuses are NOT required. | | | 3 | Michaud | 10/20/2019 | |
| ttom | 26 12 02-5 | Will remove | | | 3 | | | |
| nelsopetroni | 26 13 13-2 | Delete: Swgr does not need to meet any PG&E requirements | | | 3 | Michaud | 10/20/2019 | |
| ttom | 26 13 13-2 | Deleted | | | 3 | | | |
| nelsopetroni | 26 13 13-4 | Remove Square D from list | | | 3 | Michaud | 10/20/2019 | |
| ttom | 26 13 13-4 | Will remove | | | 3 | | | |
| nelsopetroni | 26 13 13-4 | 4. Ground and Test Device | | | 3 | Michaud | 10/20/2019 | |
| ttom | 26 13 13-4 | Can add | | | 3 | | | |
| nelsopetroni | 26 13 13-4 | Siemens | | | 3 | Michaud | 10/20/2019 | |
| ttom | 26 13 13-4 | Will fix | | | 3 | | | |
| nelsopetroni | 26 13 13-4 | Move Powell to position 2 | | | 3 | Michaud | 10/20/2019 | |
| ttom | 26 13 13-4 | Will move | | | 3 | | | |
| nelsopetroni | 26 13 13-6 | 5. Provide cable supports. 6. Provide insulated boot covers for power terminal connections. | | | 3 | Michaud | 10/20/2019 | |
| ttom | 26 13 13-6 | Will add | | | 3 | | | |
| nelsopetroni | 26 13 13-6 | 5. Any louvers shall have provisions for filters. | | | 3 | Michaud | 10/20/2019 | |
| ttom | 26 13 13-6 | Will add | | | 3 | | | |
| nelsopetroni | 26 13 13-6 | copper | | | 3 | Michaud | 10/20/2019 | |
| ttom | 26 13 13-6 | Will edit | | | 3 | | | |
| nelsopetroni | 26 13 13-6 | to facilitate the connection of field cable shields. | | | 3 | Michaud | 10/20/2019 | |
| ttom | 26 13 13-6 | Will edit | | | 3 | | | |
| nelsopetroni | 26 13 13-7 | An external 125VDC panel board shall provide one 40 amps breaker for breaker trip/close control, for the bus differential protection and the network switch power supply. | | | 3 | Michaud | 10/20/2019 | |
| ttom | 26 13 13-7 | Will revise | | | 3 | | | |
| nelsopetroni | 26 13 13-9 | Minimum of ten electrically independent stationary "a" & "b" auxiliary contacts that are wired to terminal blocks. | | | 3 | Michaud | 10/20/2019 | |
| ttom | 26 13 13-9 | Will add | | | 3 | | | |
| nelsopetroni | 26 13 13-9 | TOC - Minimum of six electrically independent "a" & "b" contacts wired to terminal blocks | | | 3 | Michaud | 10/20/2019 | |
| ttom | 26 13 13-9 | Will add | | | 3 | | | |
| nelsopetroni | 26 13 13-10 | | 35:01:00 | | 3 | Michaud | 10/20/2019 | |
| ttom | 26 13 13-10 | Will revise | | | 3 | | | |
| nelsopetroni | 26 13 13-11 | All terminals (except for CT wiring) shall have a sliding link that provided a means of opening the circuit without removing any wiring. | | | 3 | Michaud | 10/20/2019 | |
| ttom | 26 13 13-11 | Will revise | | | 3 | | | |

| Author (in gray rows) Responder (in white rows) | | | | | | | | Direct Costs (Appropriate markups addressed in the Cost Model by company) |
|--|---------------|---|---------------------------|-----------|----------|--------------------|---------------|--|
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| nelsopetroni | 26 13 13-13 | Do not mounted test switch on door. | | | 3 | Michaud | 10/20/2019 | |
| ttom | 26 13 13-13 | Will revise | | | 3 | | | |
| nelsopetroni | 26 13 13-14 | Relays for Bus Differential: SEL587Z or similar. | | | 3 | Michaud | 10/20/2019 | |
| ttom | 26 13 13-14 | Will add | | | 3 | | | |
| nelsopetroni | 26 13 13-15 | Breaker status LEDs shall be integrated with the breaker control switch. | | | 3 | Michaud | 10/20/2019 | |
| ttom | 26 13 13-15 | Will revise | | | 3 | | | |
| nelsopetroni | 26 13 13-16 | Replace this section with text in ATTACHMENT TO 23 13 13 Section 2.17 | | | 3 | Michaud | 10/20/2019 | |
| ttom | 26 13 13-16 | Will check and revise as necessary | | | 3 | | | |
| DG | 26 13 13-16 | See attachment | | | 3 | Michaud | | |
| ttom | 26 13 13-16 | Will revise per attachment | | | 3 | | | |
| DG | 26 13 13-16 | | | | 3 | Michaud | | |
| nelsopetroni | 26 13 13-16 | | | | 3 | Michaud | | |
| nelsopetroni | 26 13 13-16 | Black letters with white background | | | 3 | Michaud | 10/20/2019 | |
| ttom | 26 13 13-16 | Will revise. | | | 3 | | | |
| Marianojl | 26 19 23-1 | Will this need to meet IEEE-519? | | | 3 | Michaud | 10/20/2019 | |
| ttom | 26 19 23-1 | These drives will meet 519 | | | 3 | | | |
| nelsopetroni | 26 19 23-10 | Prefer to use SEL849 | | | 3 | Michaud | 10/20/2019 | |
| ttom | 26 19 23-10 | Will revise | | | 3 | | | |
| nelsopetroni | 26 33 23-4 | | | | 3 | Michaud | 10/20/2019 | |
| ttom | 26 33 23-4 | no comment | | | 3 | | | |
| nelsopetroni | 26 33 23-4 | Connection: Cord and Receptacle | | | 3 | Michaud | 10/20/2019 | |
| ttom | 26 33 23-4 | Will revise | | | 3 | | | |
| nelsopetroni | 26 33 23-4 | The UPS shall be quickly replaced by unplugging the input connectors on the input & output and plugging a new UPS. | | | 3 | Michaud | 10/20/2019 | |
| ttom | 26 33 23-4 | Will add more description | | | 3 | | | |
| anhtr | 28 31 00-9 | | 125 | | 3 | Rausch | 10/20/2019 | |
| kmaestri | 28 31 00-9 | will change | | | 3 | | | |
| anhtr | 28 31 00-9 | Min. of 8 | | | 3 | Rausch | 10/20/2019 | |
| kmaestri | 28 31 00-9 | okay. will revise | | | 3 | | | |
| anhtr | 28 31 00-13 | to be horns and shall sound the three-pulse temporal pattern specified for fire alarm systems by the California State Fire Marshal. | | | 3 | Rausch | 10/20/2019 | |
| kmaestri | 28 31 00-13 | okay. will specify that. | | | 3 | | | |
| TAKEMOTOMW | 31 23 23.15-6 | Its not entirely clear where this is required. The geotech report says it should be used when "when subgrade soils are too soft or wet." How will this be determined during construction? | | | 3 | Davis | 10/20/2019 | |
| pdavis1 | 31 23 23.15-6 | Will clarify/correct. The intent is to identify remove material in the unexpected event that the material is unusually soft or organic that is undesirable. | | | 3 | | | |
| TAKEMOTOMW | 31 23 23.15-9 | Per geotech report " Rocks greater than 0.5 inches in any dimension should not be permitted in backfill." | | | 3 | Davis | 10/20/2019 | |
| pdavis1 | 31 23 23.15-9 | Will add limitation to this bullet list | | | 3 | | | |
| TAKEMOTOMW | 31 23 23.15-9 | Per geotech report trench backfill under structures or pavement "should be mechanically compacted to at least 95 percent of maximum dry unit weight..." | | | 3 | Davis | 10/20/2019 | |
| pdavis1 | 31 23 23.15-9 | will clarify per the geotechnical design report and/or specifications | | | 3 | | | |
| VOLUME 3 | | | | | | | | |
| DG | 00 01 10-4 | Fire Extinguishers | | | 3 | Rausch | 10/20/2019 | |
| kmaestri | 00 01 10-4 | This is a markup of the table of contents. Unclear what the comment is referring to | | | 3 | | | |
| DG | 00 01 10-7 | Are we specifying CFD model requirements in another spec, or just in the contract? | | | 3 | Crook | 10/20/2019 | |
| scrook | 00 01 10-7 | CFD Modeling has been performed by Jacobs and is not required by the Manufacturer. HI standards only recognize physical modeling as required for conformance. | | | 3 | | | |
| DG | 00 01 10-8 | Might need the following specifications, or sections in the VTSH pump specification describing the following in more detail - 1. Vibration and Critical Speed Control and Monitoring 2. Mounting and Alignment | | | 3 | Crook | 10/20/2019 | |
| scrook | 00 01 10-8 | The VTSH pump spec includes sections covering vibration monitoring, mounting and alignment. | | | 3 | | | |
| DG | 33 05 01-2 | Does Jacobs anticipate HS-25 loading anywhere? | | | 3 | Chandler | 11/12/2019 | |
| Sam Chandler | 33 05 01-2 | HS-20 loading is standard. Designing for HS-25 could have an impact to pipe wall thicknesses. This was discussed during 12NOV2019 meeting and agreed no change to scope. | | | 3 | | | |
| DG | 33 05 01-2 | Not all submittals are informational, add reference to contract where we classify some submittals as imformation and some submittals requiring action. | | | 3 | Chandler | 10/20/2019 | |
| Sam Chandler | 33 05 01-2 | You are right, only this one item is. Action submittal requirements for conveyance piping are described in part A of this subsection of the spec. | | | 3 | | | |
| DG | 33 05 01-5 | How does Jacobs determine where 304SS and 316SS materials should be used? Follow SJ pipe guidelines and specifically request exemptions to the piping guidelines. This comment is TYP, and shall apply to all specifications. | | | 3 | Maestri, Chandler | 10/20/2019 | |

| Author (in gray rows) Responder (in white rows) | | Page Label | Comments (in gray rows) Responses (in white rows) | Commenter | Category | Assigned Responder | Date Answered | Backchecked | Direct Costs (Appropriate markups addressed in the Cost Model by company) |
|--|--|--------------------------|--|-----------|----------|--------------------|---------------|-------------|--|
| Sam Chandler | | 33 05 01-5 | The design is per the BODR and the corrosion memo recommendations. The SJ guidelines were reviewed when those recommendations and the BODR were developed. | | 3 | | | | |
| DG | | 33 05 01-6 | Change to "Design Builder"? TYP comment applies to all specifications where "Jacobs' Engineer" is used. This specification is between the City and Jacobs, not subs and Jacobs. | | 3 | Maestri, Chandler | 10/20/2019 | | |
| Sam Chandler | | 33 05 01-6 | Will revise as agreed upon in discussions about the Div 1 specs. | | 3 | | | | |
| DG | | 33 05 01-6 | Include pipe lay diagram as part of the submittal list | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | | 33 05 01-6 | Will update | | 3 | | | | |
| DG | | 33 05 01-6 | Notify Design Builder? | | 3 | Maestri, Chandler | 10/20/2019 | | |
| Sam Chandler | | 33 05 01-6 | Will revise as agreed upon in discussions about the Div 1 specs. | | 3 | | | | |
| DG | | 33 05 01-8 | "or where required per manufacturer's recommendation, or independent calculations" | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | | 33 05 01-8 | Will update | | 3 | | | | |
| DG | | 33 05 13-11 | Modify to give yourself some leeway, may not be possible to maintain flow, may need to bypass. | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | | 33 05 13-11 | Will update to include bypass pumping/piping. | | 3 | | | | |
| DG | | 33 05 13-12 | "and all connections to existing infrastructure", or similar. Basically, you will need to test connections to existing manholes as well, just not the new MHs. | | 3 | Chandler | 12/6/2019 | | |
| | | | Will update | | | | | | |
| Sam Chandler | | 33 05 13-12 | GMP Assumption: No scope change. | | 3 | | | | |
| DG | | 33 05 13-12 | Add sentence requiring gaskets and appurtenances on existing manholes shall be replaced by the Design Builder if they do not provide a good enough seal | | 3 | Chandler | 12/6/2019 | | |
| | | | This adds scope to contract and is not standard for Jacobs projects | | | | | | |
| Sam Chandler | | 33 05 13-12 | GMP Assumption: No scope change. | | 3 | | | | |
| DG | | 33 12 19-1 | These submittals may not be information only if needing review by the Fire Department. Again, include this submittal in the submittal list, and refer to spec that contains the submittal list requiring action, or information only. | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | | 33 12 19-1 | Will update to move Certificate of Compliance into Action Submittals. | | 3 | | | | |
| DG | | 33 12 19-3 | What is a rule for placing hydrants on site? Are there rules governing distance from critical infrastructure, or maximum distance between hydrants? Check with the Fire Department on locations and no. of hydrants required for the site prior to finalizing design. | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | | 33 12 19-3 | Hydrant spacing is determined by California Fire Code, Appendix C. | | 3 | | | | |
| DG | | 33 13 00-3 | Add "3", and list all the pipes requiring disinfection as part of the HW project | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | | 33 13 00-3 | Will update | | 3 | | | | |
| DG | | 33 41 01.03 DATA SHEET-1 | Unsure why here, redundant. Compare specs with design guidelines drawings to ensure consistency. Else, refer to design drawings if possible. TYP comment for other pipe tables as well. | | 3 | Chandler | 10/20/2019 | | |
| | | | Redundant with what - City standards, other Jacobs project specs, or ____? The data sheets are standard Jacobs data sheets intended to provide additional information to supplement piping specs and remove clutter from design drawings. | | 3 | | | | |
| Sam Chandler | | 33 41 01.03 DATA SHEET-1 | Since Jacobs is disturbing the existing clay liner, Jacobs to verify and confirm whether the Emergency Overflow Basin needs to be leak tested in accordance with applicable State and Federal law. This verification is to be done prior to beginning work on the EOB should leak testing be required prior to disturbing the existing clay liner. | | 3 | Davis | 12/6/2019 | | |
| DG | | 33 47 13.06-5 | | | | | | | |
| | | | City should review the current NPDS requirements to confirm if it is required. Jacobs and the City are still in discussions on this issue. It will be clarified in the GMP if this is included in the current scope of work | | | | | | |
| pdavis1 | | 33 47 13.06-5 | GMP Assumption: Include conducting one test. Assume City fills basin from existing nozzles, Kiewit supports, and Jacobs monitors for leak. | | 3 | | | | \$ 14,000 |
| DG | | 33 47 13.06-5 | for how long? | | 3 | Davis | 10/20/2019 | | |
| pdavis1 | | 33 47 13.06-5 | this is a mixed/prepared base that requires setting up so no heavy duty construction traffic permitted upon completion of subbase layer under concrete lining. concrete lining is to be placed directly over prepared soil-lime barrier | | 3 | | | | |
| DG | | 33 47 13.06-5 | "DB" | | 3 | Davis | 10/20/2019 | | |
| pdavis1 | | 33 47 13.06-5 | will add | | 3 | | | | |
| TAKEMOTOMW | | 35 20 16.25 SUPPLEMENT-2 | Seating head is too low for the gates in front of the grit units, TYP 6 | | 3 | Edwards | 10/20/2019 | | |
| dedwards | | 35 20 16.25 SUPPLEMENT-2 | Will verify seating head, which is to the centroid of the gate disc when closed, and update as required. | | 3 | | | | |
| TAKEMOTOMW | | 35 20 16.25 SUPPLEMENT-2 | Add travel distance to all self contained gates. | | 3 | Edwards | 10/20/2019 | | |
| dedwards | | 35 20 16.25 SUPPLEMENT-2 | Will add. | | 3 | | | | |
| TAKEMOTOMW | | 35 20 16.25 SUPPLEMENT-2 | Add header row. | | 3 | Edwards | 10/20/2019 | | |
| dedwards | | 35 20 16.25 SUPPLEMENT-2 | Will add header row on second page. | | 3 | | | | |
| DG | | 35 20 16.25 SUPPLEMENT-4 | Indicate which gates are electrically actuated, and which ones are manually operated | | 3 | Edwards | 10/20/2019 | | |

| Author (in gray rows) Responder (in white rows) | | Page Label | Comments (in gray rows) Responses (in white rows) | Commenter | Category | Assigned Responder | Date Answered | Backchecked | Direct Costs (Appropriate markups addressed in the Cost Model by company) |
|--|--|--------------------------|---|-----------|----------|--------------------|---------------|-------------|--|
| dedwards | | 35 20 16.25 SUPPLEMENT-4 | This will be clarified in the Operator Type/Control Style column | | 3 | | | | |
| DG | | 35 20 16.25 SUPPLEMENT-4 | Include list of fabricated stop plates to this table; suggest changing spec title to "Fabricated Stop Gates and Slide Gates". The City may want Jacobs to provide stop plates/gates as part of the project to isolate the screenings channel - see drawing comment log and discuss with ops on 10/22. | | 3 | Edwards | 10/20/2019 | | |
| dedwards | | 35 20 16.25 SUPPLEMENT-4 | Will add stop gate plate schedule if stop gate plates will be supplied on the project. | | 3 | | | | |
| TAKEMOTOMW | | 40 05 15-1 | 40 50 15 1.03 A - Is the definition of wetted or submerged areas intended to be used to identify locations with specific material or coating requirements? If so specific requirements for pipes supports located in these areas are not included in this specification section. | | 3 | Edwards | 10/20/2019 | | |
| dedwards | | 40 05 15-1 | Per paragraph 2.01.C, pipe support materials are in accordance with the Material Selection Table as shown in the General Section of Drawings. This table identifies each area within the project and defines the pipe support material required for that area. | | 3 | | | | |
| DG | | 40 05 15-2 | Who is designing the pipe supports? Add line stating "All pipe supports are designed by the _____" (DB, Vendor, combination thereof, etc.) | | 3 | Edwards | 10/20/2019 | | |
| dedwards | | 40 05 15-2 | The DB is designing the pipe supports. This will be clarified in the 90% documents | | 3 | | | | |
| DG | | 40 05 15-2 | Does this have to comply with Cat. IV requirements? | | 3 | Edwards | 10/20/2019 | | |
| dedwards | | 40 05 15-2 | Yes, Cat. IV will be utilized for the seismic design of the pipe support systems | | 3 | | | | |
| DG | | 40 80 02-1 | 3.01 (TYP) | | 3 | Crook | 10/20/2019 | | |
| scrook | | 40 80 02-1 | Noted, will correct. | | 3 | | | | |
| DG | | 40 80 02-1 | Add "D" that briefly describes the extent of the structures/systems (upstream/downstream boundary conditions) that are being physically modeled as part of this Contract. | | 3 | Crook | 10/20/2019 | | |
| scrook | | 40 80 02-1 | This is already described in 3.02. | | 3 | | | | |
| DG | | 40 80 02-2 | B. All software package source files shall be provided to the City, upon request. | | 3 | Crook | 10/20/2019 | | |
| scrook | | 40 80 02-2 | This will be incorporated. | | 3 | | | | |
| DG | | 40 80 02-2 | Who owns the physical model? If the City owns the model, state "physical model shall be provided to the City upon request". City may elect to display the model, as required. | | 3 | Crook | 12/6/2019 | | |
| | | | The size of the model makes it unlikely to be transportable. This was still under discussion as this document was being finalized. If this is to be provided will be clarified the GMP, if it is not clarified then providing the model to the City is not included in the GMP. | | | | | | |
| scrook | | 40 80 02-2 | GMP Assumption: Assume physical model can be shipped and include costs within cost model. | | 3 | | | | \$ 15,000 |
| DG | | 40 80 02-4 | DB | | 3 | Crook | 10/20/2019 | | |
| scrook | | 40 80 02-4 | Will modify in 90% spec. | | 3 | | | | |
| DG | | 40 80 02-5 | Move to Part 1? This is general summary of spec. | | 3 | Crook | 10/20/2019 | | |
| scrook | | 40 80 02-5 | Movement to Part 1 will be considered. | | 3 | | | | |
| DG | | 40 90 00 | Add S.No. so we have count of the I/O list | | 3 | Foley | 10/20/2019 | | |
| byouker | | 40 90 00 | This will be provided in the 90% | | 3 | | | | |
| DG | | 40 90 00 | Add headers to all I/O pages (TYP) | | 3 | Foley | 10/20/2019 | | |
| byouker | | 40 90 00 | this will be fixed in the 90% design phase | | 3 | | | | |
| DG | | 40 90 00 | Incorrect HW3 DCU numbering (TYP) - change from 14 to 50. | | 3 | Foley | 10/20/2019 | | |
| byouker | | 40 90 00 | okay | | 3 | | | | |
| DG | | 40 90 00-1 | Include some in this specification the table from the SI scope of work that clearly designates what work Jacob is doing as opposed to what the SI is doing. There should be no ambiguity in scope. | | 3 | Foley | 10/20/2019 | | |
| byouker | | 40 90 00-1 | This is covered in the contract between Jacobs and the sub. Will discuss further with the City how much of this needs to be included in this spec. | | 3 | | | | |
| DG | | 40 90 00-2 | "shall be" | | 3 | Foley | 10/20/2019 | | |
| byouker | | 40 90 00-2 | Will review "shall be" vs "will be" | | 3 | | | | |
| DG | | 40 90 00-2 | Indicate version | | 3 | Foley | 10/20/2019 | | |
| byouker | | 40 90 00-2 | Will update | | 3 | | | | |
| DG | | 40 90 00-2 | Specify version of the Automation Masterplan | | 3 | Foley | 10/20/2019 | | |
| byouker | | 40 90 00-2 | ok | | 3 | | | | |
| DG | | 40 90 00-2 | Indicate version of SOP AM100 | | 3 | Foley | 10/20/2019 | | |
| byouker | | 40 90 00-2 | Will update | | 3 | | | | |
| DG | | 40 90 00-3 | Some abbreviations listed in the spec are not on the drawings, check and make sure they are consistent throughout (TYP comment for all specifications including abbreviations) | | 3 | Foley | 10/20/2019 | | |
| byouker | | 40 90 00-3 | If the abbreviation is listed in the spec, and not used on drawings, then they are coordinated. | | 3 | | | | |
| DG | | 40 90 00-6 | See comment on Page 1, insert scope table | | 3 | Foley | 10/20/2019 | | |
| byouker | | 40 90 00-6 | see response above. | | 3 | | | | |
| DG | | 40 90 00-6 | add "and associated weather protection shields" | | 3 | Foley | 10/20/2019 | | |
| byouker | | 40 90 00-6 | Not necessary to add language. | | 3 | | | | |
| DG | | 40 90 00-12 | Is Jacobs providing the loop diagrams, or is the PCI? | | 3 | Foley | 10/20/2019 | | |
| byouker | | 40 90 00-12 | Jacobs is providing them | | 3 | | | | |
| DG | | 40 90 00-16 | We also need an "O&M coordination meeting" to get CIP, O&M, Jacobs, the PCI, and Kiewit on the same page. | | 3 | Foley | 10/20/2019 | | |

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|--|----|-----------------------|---|-----------|----------|--------------------|---------------|-------------|--|
| byouker | DG | 40 90 00-16 | Will add. | | 3 | | | | |
| | | 40 90 00-18 | Is all field instrumentation being provided by Jacobs without exception> | | 3 | Foley | 10/20/2019 | | |
| byouker | DG | 40 90 00-18 | Some provided by equipment manufacturer to Jacobs, but in the end yes it is all provided by Jacobs. | | 3 | | | | |
| | | 40 90 00-20 | Colors to be provided by the City | | 3 | Foley | 10/20/2019 | | |
| byouker | | 40 90 00-20 | City to provide at least 8 weeks prior to the 90% submittal if it is to be listed specifically in the specifications. | | 3 | | | | |
| DG | | 40 90 00-27 | Has the DCU and LCP manufacturer been discussed with the City? Is this equipment similar to what ABB is currently helping the City install? | | 3 | Foley | 10/20/2019 | | |
| byouker | DG | 40 90 00-27 | these are being provided by ABB and will be similar to what is currently being provided under other contracts. | | 3 | | | | |
| | | 40 90 00-32 | Note to City: These colors need to be reviewed and confirmed. Same for wiring. | | 3 | Foley | 10/20/2019 | | |
| byouker | DG | 40 90 00-32 | Acknowledged. | | 3 | | | | |
| DG | | 40 90 00-35 | Are the required test documentation defined somewhere? | | 3 | Foley | 10/20/2019 | | |
| byouker | | 40 90 00-35 | these will be further defined in the 90% design documents. | | 3 | | | | |
| DG | | 40 90 00-35 | Does the City have he right to reject testing? Consider including the FAT requirements in the submittal list. | | 3 | Foley | 10/20/2019 | | |
| byouker | DG | 40 90 00-35 | yes | | 3 | | | | |
| DG | | 40 90 00-35 | What are Unwitnessed Factory Tests, and is this defined? | | 3 | Foley | 10/20/2019 | | |
| byouker | | 40 90 00-35 | Factory tests which are not attended by Jacobs. | | 3 | | | | |
| DG | | 40 90 00-35 | It appears that the corrosion protection work for the project are being done by Jacobs, SJE and a 3rd party | | 3 | Foley/Wenger | 10/20/2019 | | |
| byouker | DG | 40 90 00-35 | This is the corrosion protection of the control panels. | | 3 | | | | |
| DG | | 40 90 00-36 | Jacobs to provide copies of all FATs distributed to the vendors for review. | | 3 | Foley | 10/20/2019 | | |
| byouker | | 40 90 00-36 | Jacobs will provide all test documentation | | 3 | | | | |
| DG | | 40 90 00-37 | Does this refer to Jacobs? I assume equipment not purchased by the PCIS is provided by Jacobs. | | 3 | Foley | 10/20/2019 | | |
| byouker | | 40 90 00-37 | Correct. | | 3 | | | | |
| DG | | 40 90 00-38 | This is a little confusing, may need further discussion. As has been commented elsewhere, these specifications are the contractual agreement between the DB and the City. However, these specifications read like they are a contract between Jacobs and the subcontractor. Further discussion is required prior to making the changes throughout the specifications. | | 3 | Foley | 10/20/2019 | | |
| byouker | DG | 40 90 00-38 | Agreed. | | 3 | | | | |
| DG | | 40 90 00-40 | All performance test data and documentation to be provided to the City | | 3 | Foley | 10/20/2019 | | |
| byouker | | 40 90 00-40 | The documentation to the City does not belong in the specification. | | 3 | | | | |
| DG | | 40 91 00 | Add S.No. | | 3 | Foley | 10/20/2019 | | |
| byouker | DG | 40 91 00 | this will be added in the 90% design phase | | 3 | | | | |
| DG | | 40 91 00 | Add headers | | 3 | Foley | 10/20/2019 | | |
| byouker | | 40 91 00 | Will add | | 3 | | | | |
| DG | | 40 91 00 | Where is model no. listed? (TYP for all data sheets with model numbers listed) | | 3 | Foley | 10/20/2019 | | |
| byouker | DG | 40 91 00 | Will be listed during next phase of design. | | 3 | | | | |
| DG | | 40 91 00 | Add location of analyzers (or meters, etc. TYP for all data sheets) | | 3 | Foley | 10/20/2019 | | |
| byouker | | 40 91 00 | Tag number provides information as to location. When Loop Title is added, this will also help. | | 3 | | | | |
| DG | | 40 91 00 | All warranty requirements are being reviewed by the City. | | 3 | Foley | 10/20/2019 | | |
| byouker | | 40 91 00 | Acknowledged. | | 3 | | | | |
| DG | | 40 91 00 | Add number of analyzers (or meters, TYP comment for all data sheets) | | 3 | Foley | 10/20/2019 | | |
| byouker | | 40 91 00 | There is one data sheet for each instrument. | | 3 | | | | |
| DG | | 40 91 00 | O&M wants a list with all equipment used in the project - make and model for review before the GMP? The City has seen some of the models/makes, but not everything in one place for review. | | 3 | Foley | 10/20/2019 | | |
| byouker | | 40 91 00 | The manufacturer is identified in the instrument list. the only manufacturer that was in question is the mag meters, which is being discussed at the PM level | | 3 | | | | |
| DG | | 40 91 00-1 | Are these eO&Ms? | | 3 | Foley | 10/20/2019 | | |
| byouker | | 40 91 00-1 | O&Ms are submitted electronically. | | 3 | | | | |
| DG | | 40 91 00-1 | "The DB shall rectify.." | | 3 | Foley | 10/20/2019 | | |
| byouker | | 40 91 00-1 | Believe this is correct as written. | | 3 | | | | |
| DG | | 40 91 00-2 | Refer version | | 3 | Foley | 10/20/2019 | | |
| byouker | | 40 91 00-2 | version number will be added | | 3 | | | | |
| DG | | 40 91 01 SUPPLEMENT-1 | Confirm whether a third PS is needed at HW3 | | 3 | Foley | 10/20/2019 | | |
| byouker | | 40 91 01 SUPPLEMENT-1 | Per recent direction, a 3rd pump station for storm water will be added. | | 3 | | | | |
| DG | | 40 91 01 SUPPLEMENT-2 | add a line stating why 209 mgd is the design criteria (DWF) | | 3 | Foley | 10/20/2019 | | |
| byouker | | 40 91 01 SUPPLEMENT-2 | Can add. | | 3 | | | | |

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|--|---|--|---|
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| TAKEMOTOMW byouker | 40 91 01 SUPPLEMENT-3 40 91 01 SUPPLEMENT-3 40 91 01 Supplement 4.2 HW3 Screenings Removal, Influent Screenings Handling, 3rd paragraph: As noted in the 30% review, operating the compactors in pairs (as currently configured) requires that both dumpsters need to be in-service. This will require additional hauling O&M as the dumpsters will likely be hauled away before they are full due to odor potential. In addition, one of the screenings washer in each pair will need to be turned off when a dumpster is not present (i.e. during pick up and hauling). O&M staff will need to isolate and turn off those washers when this occurs. Agree. Will review wording. | 3 3 | Foley/Youker 10/20/2019 |
| TAKEMOTOMW byouker | 40 91 01 SUPPLEMENT-3 40 91 01 SUPPLEMENT-3 40 91 01 Supplement 4.2 HW3 Screenings Removal, Influent Screenings Handling, 2nd paragraph: Note the trough operation timer needs to be based on when the cleaning cycle ends not when it starts. Last sentence is incomplete. Agree | 3 3 | Foley/Youker 10/20/2019 |
| TAKEMOTOMW byouker | 40 91 01 SUPPLEMENT-3 40 91 01 SUPPLEMENT-3 40 91 01 Supplement 4.2 HW3 Screenings Removal, Influent Screens: Under lead/lag/standby the number of screens in service is controlled by flow or by HIGH LEVEL upstream. Will the standby screen be automatically called into service if needed? Yes. | 3 3 | Foley/Youker 10/20/2019 |
| TAKEMOTOMW byouker | 40 91 01 SUPPLEMENT-3 40 91 01 SUPPLEMENT-3 40 91 01 Supplement 4.2 HW3 Screenings Removal, Influent Screenings Handling: The term IN-SERVICE screen cleaning status seems redundant. Only in service screens would be cleaned. Simpler to just state that the trough will run when any screens are cleaned. Agree. | 3 3 | Foley/Youker 10/20/2019 |
| TAKEMOTOMW byouker | 40 91 01 SUPPLEMENT-3 40 91 01 SUPPLEMENT-3 40 91 01 Supplement 4.2 HW3 Screenings Removal, Influent Screens: Not clear what OFF-TIME means; please define. The time between screen cleaning cycle. | 3 3 | Foley/Youker 10/20/2019 |
| TAKEMOTOMW | 40 91 01 SUPPLEMENT-3 40 91 01 Supplement 4.2 HW3 Screenings Removal, Influent Screens, 4th paragraph: What takes precedent for clearing a High Level condition, putting more screens in service or increasing the cleaning speed? How does the speed increase work with regard to sequential cleaning? The speed on the screen being cleaned could be continually increased, meanwhile other screens would continue to accumulate material, increasing headloss. Suggests adding more detail on how increasing speed will be used. | 3 | Foley/Youker 10/20/2019 |
| byouker | 40 91 01 SUPPLEMENT-3 40 91 01 Supplement 4.2 HW3 Screenings Removal, Influent Screens: Is there a distinction between HIGH LEVEL and HIGH DIFFERENTIAL LEVEL? As written both terms a used to in reference to the start of a cleaning cycle. This is especially important because the water level in the screening channel is influence by the Raw Sewage PS operating water level. The operation of the RSPS needs to be factored into the control and setpoints used for the screens. Agree. High level is absolute level, high differential is different between upstream/downstream. Starting a RS Pump could draw down the downstream level and create a high differential. Will be working on strategies during next phase. | 3 | |
| TAKEMOTOMW | 40 91 01 SUPPLEMENT-3 40 91 01 SUPPLEMENT-3 40 91 01 Supplement 4.2 HW3 Screenings Removal, Influent Screens: Is there a distinction between HIGH LEVEL and HIGH DIFFERENTIAL LEVEL? As written both terms a used to in reference to the start of a cleaning cycle. This is especially important because the water level in the screening channel is influence by the Raw Sewage PS operating water level. The operation of the RSPS needs to be factored into the control and setpoints used for the screens. Agree. High level is absolute level, high differential is different between upstream/downstream. Starting a RS Pump could draw down the downstream level and create a high differential. Will be working on strategies during next phase. | 3 | Foley/Youker 10/20/2019 |
| byouker | 40 91 01 SUPPLEMENT-3 40 91 01 SUPPLEMENT-3 40 91 01 Supplement 4.2 HW3 Screenings Removal, Influent Screens: Is there a distinction between HIGH LEVEL and HIGH DIFFERENTIAL LEVEL? As written both terms a used to in reference to the start of a cleaning cycle. This is especially important because the water level in the screening channel is influence by the Raw Sewage PS operating water level. The operation of the RSPS needs to be factored into the control and setpoints used for the screens. Agree. High level is absolute level, high differential is different between upstream/downstream. Starting a RS Pump could draw down the downstream level and create a high differential. Will be working on strategies during next phase. | 3 | |
| DG byouker | 40 91 01 SUPPLEMENT-4 40 91 01 SUPPLEMENT-4 40 91 01 Supplement 4.2 HW3 Screenings Removal, Influent Screens: Is there a distinction between HIGH LEVEL and HIGH DIFFERENTIAL LEVEL? As written both terms a used to in reference to the start of a cleaning cycle. This is especially important because the water level in the screening channel is influence by the Raw Sewage PS operating water level. The operation of the RSPS needs to be factored into the control and setpoints used for the screens. Agree. High level is absolute level, high differential is different between upstream/downstream. Starting a RS Pump could draw down the downstream level and create a high differential. Will be working on strategies during next phase. | 3 3 | Foley 10/20/2019 |
| TAKEMOTOMW byouker | 40 91 01 SUPPLEMENT-4 40 91 01 SUPPLEMENT-4 40 91 01 Supplement 4.3 Raw Sewage Pump Station 3, Raw Sewage Pumping, 2nd paragraph: Since the RSPS directly controls the water level in the screens, the cleaning cycle needs to be coordinate with operation of the screens. Also confirm anticipated water level changes with screen manufactures. Some manufacturers require a minimum water depth in the screen channel to provide flushing to keep debris out of the lower chain sprockets. Will review. The lowest operating setpoint still provides considerable depth in channels. | 3 3 | Foley/Youker 10/20/2019 |
| TAKEMOTOMW byouker | 40 91 01 SUPPLEMENT-4 40 91 01 SUPPLEMENT-4 40 91 01 Supplement 4.4 HW3 Grit Removal: Grit pumps are also dedicated to a specific grit unit Correct. | 3 3 | Foley/Youker 10/20/2019 |
| TAKEMOTOMW | 40 91 01 SUPPLEMENT-4 40 91 01 SUPPLEMENT-4 40 91 01 Supplement 4.2 HW3 Screenings Removal, Influent Screenings Handling, 4th paragraph: Discussion on compactor operation is similar to the discussion on sluice trough operation. Clarify if the operation of the two is tied together in the control system (i.e. both operate at the same time with the same operator timers input/variables) or if the systems are operated independently. Will review. But intent is that both w-c's operate with same controls. If a dumpster is removed, the w-c is taken out of service and is not available for operation. | 3 3 | Foley/Youker 10/20/2019 |
| byouker | 40 91 01 SUPPLEMENT-4 40 91 01 SUPPLEMENT-4 40 91 01 Supplement 4.3 Raw Sewage Pump Station 3, Raw Sewage Pumping, 4th paragraph: Assume 95% refers to % speed. Correct, 95% speed. | 3 3 | Foley/Youker 10/20/2019 |
| TAKEMOTOMW byouker | 40 91 01 SUPPLEMENT-4 40 91 01 SUPPLEMENT-4 40 91 01 Supplement 4.3 Raw Sewage Pump Station 3, Raw Sewage Pumping, 4th paragraph: Assume 95% refers to % speed. Correct, 95% speed. | 3 3 | Foley/Youker 10/20/2019 |
| dbpeters byouker | 40 91 01 SUPPLEMENT-4 40 91 01 SUPPLEMENT-4 40 91 01 Supplement 4.3 Raw Sewage Pump Station 3, Raw Sewage Pumping, 4th paragraph: Assume 95% refers to % speed. Correct, 95% speed. | 3 3 | Foley/Youker 10/20/2019 |

| Author (in gray rows) Responder (in white rows) | | | | | | | | | Direct Costs (Appropriate markups addressed in the Cost Model by company) |
|--|-----------------------|--|---------------------------|-----------|----------|--------------------|---------------|-------------|--|
| | Page Label | Comments (in gray rows) | Responses (in white rows) | Commenter | Category | Assigned Responder | Date Answered | Backchecked | |
| TAKEMOTOMW | 40 91 01 SUPPLEMENT-4 | 40 91 01 Supplement 4.3: Will an additional pump be called to run sooner, i.e. before the set period expires, if the level continues to drop? | | | 3 | Foley/Youker | 10/20/2019 | | |
| byouker | 40 91 01 SUPPLEMENT-4 | Control strategies being evaluated, in conjunction with RSPS2. | | | 3 | | | | |
| DG | 40 91 01 SUPPLEMENT-4 | Should HW3 and HW2 be controlled off of flow? | | | 3 | Foley | 10/20/2019 | | |
| byouker | 40 91 01 SUPPLEMENT-4 | No, cannot control two pump stations on flow. One is flow controlled, and the other is level controlled to pump the balance of flow. In the case of flow control, this can be in the form of "constant speed" or "base loading". | | | 3 | | | | |
| TAKEMOTOMW | 40 91 01 SUPPLEMENT-5 | This implies the flushing valve is operated based on the grit pump operation. The paragraph above on this page indicated the flushing valve operated based on the grit unit inlet gate being open. Please confirm. | | | 3 | Foley/Youker | 10/20/2019 | | |
| byouker | 40 91 01 SUPPLEMENT-5 | Will review sequence of valve. | | | 3 | | | | |
| TAKEMOTOMW | 40 91 01 SUPPLEMENT-5 | Trying to balance flow amongst 3 or 4 units by throttling the inlet gates may be challenging. Additional details are needed for this operation and specifically how the PCS will try to balance flow across multiple units. | | | 3 | Foley/Youker | 10/20/2019 | | |
| byouker | 40 91 01 SUPPLEMENT-5 | Agree. will develop during next phase of design. | | | 3 | | | | |
| TAKEMOTOMW | 40 91 01 SUPPLEMENT-5 | Confirm that the inlet gates and motorized actuators are beings specified for modulating duty. | | | 3 | Foley/Youker | 10/20/2019 | | |
| byouker | 40 91 01 SUPPLEMENT-5 | Not 4-20mA, but Open/Stop/Close with position feedback. | | | 3 | | | | |
| TAKEMOTOMW | 40 91 01 SUPPLEMENT-5 | Note that at some point between 209 MGD and 260 MGD to HW3, the grit effluent weirs will become submerged. It is unlikely that the flow balancing scheme will be able to function during this condition given the relatively low headloss over a submerged weir. | | | 3 | Foley/Youker | 10/20/2019 | | |
| byouker | 40 91 01 SUPPLEMENT-5 | The weirs become submerged at total flows greater about 350mgd (which creates high level in California Structure), then a function of the flow split between HW2 and HW3. So the flow splitting function deteriorates at very high flows. | | | 3 | | | | |
| TAKEMOTOMW | 40 91 01 SUPPLEMENT-6 | First sentence indicates bins will have hinged covers. The second sentence indicates covers will be provided in the future if needed. Please confirm. | | | 3 | Foley/Youker | 10/20/2019 | | |
| byouker | 40 91 01 SUPPLEMENT-6 | Covers would be provided in future if required. Not by DB Contractor. | | | 3 | | | | |
| TAKEMOTOMW | 40 91 01 SUPPLEMENT-8 | Assume pumps will be operated based on a level sensor? Confirm. | | | 3 | Foley/Youker | 10/20/2019 | | |
| byouker | 40 91 01 SUPPLEMENT-8 | Pumps will be operated based on Level-control. | | | 3 | | | | |
| TAKEMOTOMW | 40 91 01 SUPPLEMENT-8 | Is this higher than the pump operation High-High Level listed above? Need to reconcile alarm/set-point naming. | | | 3 | Foley/Youker | 10/20/2019 | | |
| byouker | 40 91 01 SUPPLEMENT-8 | Agree. Setpoints, delays, and alarm levels will be reviewed. | | | 3 | | | | |
| TAKEMOTOMW | 40 91 01 SUPPLEMENT-8 | Theoretically the High-High Level will always be active immediately after LAG1 turns on. How long does the system wait before it turns after LAG2, etc.? | | | 3 | Foley/Youker | 10/20/2019 | | |
| byouker | 40 91 01 SUPPLEMENT-8 | Setpoints to be determined/verified. There would also be a delay to allow Lag1 pump to lower the liquid level. If it doesn't in approx 20-30 seconds, then Lag2 pump would start.. | | | 3 | | | | |
| DG | 40 91 01 SUPPLEMENT-8 | Discuss sampling, are we providing a pump? | | | 3 | Foley | 10/20/2019 | | |
| byouker | 40 91 01 SUPPLEMENT-8 | There is a sampler being added at California Structure with no pump. | | | 3 | | | | |
| TAKEMOTOMW | 40 91 01 SUPPLEMENT-9 | Confirm High Level alarm naming. | | | 3 | Foley/Youker | 10/20/2019 | | |
| byouker | 40 91 01 SUPPLEMENT-9 | Will review naming of level setpoints, alarm setpoints. | | | 3 | | | | |
| DG | 40 91 01 SUPPLEMENT-9 | Lot of information, will be helpful if condensed. Include a table showing operation strategy for all pump systems. This can be expanded later on to include actual level information. | | | 3 | Foley | 10/20/2019 | | |
| byouker | 40 91 01 SUPPLEMENT-9 | Acknowledged. Can discuss if required during next phase of design. | | | 3 | | | | |
| TAKEMOTOMW | 40 91 01 SUPPLEMENT-9 | Missing control sentence for turning off the lead pump, which would still be on at this point. | | | 3 | Foley/Youker | 10/20/2019 | | |
| byouker | 40 91 01 SUPPLEMENT-9 | Will add. | | | 3 | | | | |
| TAKEMOTOMW | 40 91 01 SUPPLEMENT-9 | Is this High Level different than than high level used for Pumps 1 and 2? | | | 3 | Foley/Youker | 10/20/2019 | | |
| byouker | 40 91 01 SUPPLEMENT-9 | Yes. Will correct naming of the different level setpoints. | | | 3 | | | | |
| DG | 40 95 80-2 | Management Information System | | | 3 | Foley | 10/20/2019 | | |
| byouker | 40 95 80-2 | Will added/correct. | | | 3 | | | | |
| nelsopetroni | 40 95 80-3 | specs missing | | | 3 | Foley | 10/20/2019 | | |
| byouker | 40 95 80-3 | Will review and add as needed. | | | 3 | | | | |
| DG | 40 95 80-6 | Ensure that FO cable used is the one specified earlier by the City | | | 3 | Foley | 10/20/2019 | | |
| byouker | 40 95 80-6 | Will review. | | | 3 | | | | |
| DG | 40 95 80-7 | See comment on fiber make/model required by City | | | 3 | Foley | 10/20/2019 | | |
| byouker | 40 95 80-7 | Acknowledged. | | | 3 | | | | |
| nelsopetroni | 40 96 00-3 | | | | 3 | Foley | 10/20/2019 | | |
| byouker | 40 96 00-3 | Will revise. | | | 3 | | | | |
| nelsopetroni | 40 96 00-3 | Headworks #3 | | | 3 | Foley | 10/20/2019 | | |
| byouker | 40 96 00-3 | Will revise | | | 3 | | | | |
| DG | 40 96 00-4 | How many workshops are planned? | | | 3 | Foley | 10/20/2019 | | |
| byouker | 40 96 00-4 | 6 are listed. Some could be combined. | | | 3 | | | | |
| DG | 40 96 00-9 | version? | | | 3 | Foley | 10/20/2019 | | |
| byouker | 40 96 00-9 | version number will be added | | | 3 | | | | |
| DG | 40 96 00-12 | The City would like to review and approve all graphics prior to purchase. | | | 3 | Foley | 10/20/2019 | | |
| byouker | 40 96 00-12 | it will be part of the software review process. | | | 3 | | | | |
| DG | 40 99 90-1 | Add "C." listing all the package control system provided as part of the project. | | | 3 | Foley | 10/20/2019 | | |

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|--|--------------|--|---|-----------|----------|--------------------|---------------|-------------|--|
| byouker | DG | 40 99 90-1 40 99 90-2 | Currently no packaged control systems. All controls in SCADA. Who will be performing the anchoring and bracing calculations, the DB or vendors? See 01 88 15. Sometimes the vendors do it, but usually they provide the information for the DB Contractor to perform. | | 3 3 | | | | |
| byouker | DG | 40 99 90-2 40 99 90-3 | "or equal" | | 3 | Foley | 10/20/2019 | | |
| byouker | DG | 40 99 90-3 40 99 90-5 | Will add. Note to City: Verify whether the manufacturers and model numbers are acceptable. Per City, Jacobs to provide a list of equipment and vendors in one table for City to review and approve prior to GMP. | | 3 3 | Foley | 10/20/2019 | | |
| byouker | DG | 40 99 90-5 40 99 90-5 | Acknowledged. Jacobs to verify sizing of all control panels prior to GMP to ensure a) the panels, switchgears, etc. fit through the double doors of the electrical building, and b) to ensure that there is enough room in the electrical building to move paneling from one end of the room to the other (in case anything needs to be replaced) | | 3 3 | Maestri | 10/20/2019 | | |
| byouker | DG | 40 99 90-5 40 27 02 SUPPLEMENT-1 P | acknowledged Complete table with Tag Numbers | | 3 3 | Edwards | 10/20/2019 | | |
| dedwards | DG | 40 27 02 SUPPLEMENT-1 P 40 27 02 SUPPLEMENT-3 P | Tag numbers will be added. ? | | 3 3 | Edwards | 10/20/2019 | | |
| dedwards | DG | 40 27 02 SUPPLEMENT-3 P 41 22 23.20-1 | This is backflow prevented WTR1. Call out location | | 3 3 | Youker | 10/20/2019 | | |
| Bryan Youker | TAKEMOTOMW | 41 22 23.20-1 41 22 23.20-3 | Equipment No. and Name are consistent with all sections. No "location" needed. Materials of construction not specified. | | 3 3 | Youker | 10/20/2019 | | |
| Bryan Youker | TAKEMOTOMW | 41 22 23.20-3 41 22 23.20-3 | Intent for manufacturer's standard. Stainless steel | | 3 3 | Youker | 10/20/2019 | | |
| Bryan Youker | DG | 41 22 23.20-3 41 22 23.20-3 | Will add "stainless steel". Considering the location, suggest this be NEMA 6P or similar | | 3 3 | Youker | 10/20/2019 | | |
| Bryan Youker | TAKEMOTOMW | 41 22 23.20-4 41 22 23.20-4 | NEMA 4X is sufficient for this application. Confirm coating system does not need to comply with the protective coating specification provided. | | 3 3 | Youker | 10/20/2019 | | |
| Bryan Youker | TAKEMOTOMW | 41 22 23.20 SUPPLEMENT-1 41 22 23.20 SUPPLEMENT-1 | Manufacturer's standard is sufficient. Confirm winches are not needed for grit dumpsters | | 3 3 | Youker | 10/20/2019 | | |
| Bryan Youker | TAKEMOTOMW | 41 22 23.20 SUPPLEMENT-1 41 22 23.20 SUPPLEMENT-1 | No winches needed for grit dumpsters. Confirm required winch capacity needed to move the dumpster when full/partially full. | | 3 3 | Youker | 10/20/2019 | | |
| Bryan Youker | DG | 41 22 23.20 SUPPLEMENT-1 44 31 00-7 | 10 tons is sufficient. Winch is used when dumpster is partially full. when dumpster is full, no need to move. If it is determined that we have to remove VOCs, would we go with the same manufactures, and how would this experience requirement change? | | 3 3 | Cowden | 10/20/2019 | | |
| scowden | DG | 44 31 00-7 44 31 00-9 | Same manufacturers but would likely want some specific experience related to VOC removal. Why no consideration of "or equals", other specifications contain the "or equal" clause. | | 3 3 | Cowden | 10/20/2019 | | |
| scowden | DG | 44 31 00-9 44 31 00-9 | We need to be more specific related to bio-trickling filter suppliers. There are other suppliers that are less reputable. Need to protect the City. What is the source of this H2S inlet information? | | 3 3 | Cowden | 10/20/2019 | | |
| scowden | DG | 44 31 00-9 44 31 00-10 | See previous Odor Study dated 2015. H2S levels developed directly from measured data. Mention source of information. | | 3 3 | Cowden | 10/20/2019 | | |
| scowden | DG | 44 31 00-10 44 31 00-10 | Source of WTR3 water quality came from multiple data points provided by the City. I don't see a reason to include the source of information in a technical specification. Add "Surface Loading Rates" in cfm/ft2 | | 3 3 | Cowden | 10/20/2019 | | |
| scowden | DG | 44 31 00-10 44 31 00-18 | Surface Loading rate will be added to next spec iteration. Basket strainers need tag numbers | | 3 3 | Cowden | 10/20/2019 | | |
| scowden | DG | 44 31 00-18 44 31 00-18 | Tag number will be added. Do we need a sampling pump and port at the bottom of the odor control system? | | 3 3 | Cowden | 10/20/2019 | | |
| scowden | DG | 44 31 00-18 44 31 00-19 | The sampling pump is located in the water control panel. No need for an additional port. What is the quantity? | | 3 3 | Cowden | 10/20/2019 | | |
| scowden | DG | 44 31 00-19 44 31 00-20 | Quantity is dictated by Supplier. If required to remove VOC's, do the FATs change? For example, we may need the mfr. to prove that they can meet our threshold limits prior to installation on site. | | 3 3 | Cowden | 10/20/2019 | | |
| scowden | DG | 44 31 00-20 44 42 30-3 | If we require VOC removal limits, there really isnt any Factory Tests that can "prove" performance. We would simply include performance limits and the Supplier would be required to meet as part of their Performance Guarantee. Suggest adding reference to Section 40 99 90 as done on other specs for additional details on what is required from the Manufacturer in order to integrate the Manufacturer's standard control logic into the PCS. | | 3 3 | Youker | 10/20/2019 | | |
| TAKEMOTOMW | Bryan Youker | 44 42 30-3 44 42 30-5 | Will make consistent with other specs with similar requirements. 316L | | 3 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | 44 42 30-5 | Agree. will revise to 316L | | 3 | | | | |

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|--|--|-------------|---|-----------|----------|--------------------|---------------|-------------|--|
| TAKEMOTOMW | | 44 42 30-5 | Not clear what is meant by scrapers. Scrapers are required to clean screenings off of the rakes and into the discharge chute per spec language below. | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | 44 42 30-5 | Will review and clarify if required. | | 3 | | | | |
| TAKEMOTOMW | | 44 42 30-5 | Confirm minimum water elevation during RS PS cleaning cycle. | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | 44 42 30-5 | Minimum water level could be less than -1.0, but this is not a design condition in terms of flow rates. In addition, the actual HGL during a flushing cycle has yet to be determined and will be a matter of trial-and-error to move material. | | 3 | | | | |
| TAKEMOTOMW | | 44 42 30-5 | Hydraulic profile shows EL 2.53. Confirm this is at the max RS PS operating level. | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | 44 42 30-5 | The max RS PS level could be a little higher, but from a design perspective El 2.5 is accurate. If water is deeper, then less headloss through screen. | | 3 | | | | |
| TAKEMOTOMW | | 44 42 30-6 | upstream | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | 44 42 30-6 | Max level and max upstream level are essentially the same. Will add "upstream" to clarify. | | 3 | | | | |
| DG | | 44 42 30-7 | what is the angle of the discharge chute from the horizontal? 60-degrees? state. | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | 44 42 30-7 | Will state minimum angle. | | 3 | | | | |
| TAKEMOTOMW | | 44 42 30-7 | 316? | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | 44 42 30-7 | Will confirm with manufacturer. | | 3 | | | | |
| DG | | 44 42 30-7 | Scraper blade made of UHMW material? | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | 44 42 30-7 | Will verify with manufacturer standard design. | | 3 | | | | |
| DG | | 44 42 30-7 | typ 4mm thick | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | 44 42 30-7 | 1/8" is adequate to guide material from screen to sluice. Will confirm with screen manufacturer typical thickness. | | 3 | | | | |
| DG | | 44 42 30-7 | Provide shock absorbers to cushion the release of the wiper. | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | 44 42 30-7 | Will confirm with manufacturer. | | 3 | | | | |
| DG | | 44 42 30-7 | Provide a flange rubber discharge chute guide (min 6mm thick) to direct screenings to the conveyor | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | 44 42 30-7 | I don't think this is necessary if chute directs material into sluice. | | 3 | | | | |
| TAKEMOTOMW | | 44 42 30-7 | Confirm material. All other components are listed as 316 or 316L. | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | 44 42 30-7 | Will confirm with manufacturer. | | 3 | | | | |
| TAKEMOTOMW | | 44 42 30-8 | Type? | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | 44 42 30-8 | Will get input from mfr. | | 3 | | | | |
| TAKEMOTOMW | | 44 42 30-8 | Chain guides are specified in the previous subheading. Reconcile. | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | 44 42 30-8 | Will clean up. | | 3 | | | | |
| TAKEMOTOMW | | 44 42 30-8 | Type? | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | 44 42 30-8 | per other comments, Huber uses | | 3 | | | | |
| TAKEMOTOMW | | 44 42 30-9 | Confirm location, typically near the top of the screen. | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | 44 42 30-9 | Will clarify | | 3 | | | | |
| TAKEMOTOMW | | 44 42 30-9 | Redundant | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | 44 42 30-9 | Agree. will delete. | | 3 | | | | |
| TAKEMOTOMW | | 44 42 30-9 | Is there a minimum flume flow? | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | 44 42 30-9 | No. | | 3 | | | | |
| DG | | 44 42 30-10 | Is the sluice cover a hinged cover panel with handles? How many sections of cover panel/ Suggest 3 or 4 sections to facilitate easy removal. 4-ft max length; bolted, not hinged. Per 10/22 meeting City would prefer hinged if possible. Will review if it is feasible to still allow for the needed access. This would have a cost impact. | | 3 | Youker | 12/6/2019 | | |
| Bryan Youker | | 44 42 30-10 | GMP Assumption: Include 6 hinged panels. | | 3 | | | | \$ 6,000 |
| TAKEMOTOMW | | 44 42 30-10 | Schedule? 10? 40? | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | 44 42 30-10 | Will add Sch 10. | | 3 | | | | |
| DG | | 44 42 30-10 | General Comment: Verify that all vendors are meeting CIP seismic guideline requirements, via testing or calculations (TYP for all disciplines) | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | 44 42 30-10 | Covered in 01 45 36. | | 3 | | | | |
| TAKEMOTOMW | | 44 42 30-10 | Seismic requirements? | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | 44 42 30-10 | Defined in Structural spec. Can reference from here. | | 3 | | | | |
| TAKEMOTOMW | | 44 42 30-11 | Requirements for gate type or material? | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | 44 42 30-11 | This part of design still in development. | | 3 | | | | |
| TAKEMOTOMW | | 44 42 30-11 | Type ? | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | 44 42 30-11 | Will provide V#. | | 3 | | | | |
| DG | | 44 42 30-14 | A380-99 | | 3 | Youker | 10/20/2019 | | |
| RW057495 | | 44 42 30-14 | Will update. | | 3 | | | | |

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|--|--|---------------|--|-----------|----------|--------------------|---------------|-------------|--|
| DG | | 44 42 40-3 | Are the only spare parts provided the tools? Recommend the following be included: 1. Two (2) sets of 3/8" rake bars, or two sections of 3/8" screen face. 2. Four (4) sets of rakes/combs. 3. Two (2) five foot long chain segments 4. Two (2) lower bearing assemblies 5. Two (2) wipers for scraper 6. Two (2) proximity switches 7. Two (2) of each size fuse used in the control panels 8. Two (2) of each type of indicator light used in the control panels 9. Two (2) of each type of relay used in the control panels 10. One (1) of each type of I/O card used for the PLC in the control panels 11. One (1) spare PLC power supply used for the PLC in the control panels. | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | 44 42 40-3 | Will coordinate final spare parts list per discussions with Owner. | | 3 | | | | |
| TAKEMOTOMW | | 44 42 40-3 | 6 x 46 = 276 mgd per B.1. Peak flow listed in A.3 is 260 mgd. | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | 44 42 40-3 | Total peak flow = 5 x 52mgd (Raw Sewage Pumps). | | 3 | | | | |
| DG | | 44 42 40-3 | O&M wants a table with all the major equipment and associated spare parts recommended for review. | | 3 | Youker | 10/20/2019 | | |
| kmaestri | | 44 42 40-3 | acknowledged | | 3 | | | | |
| TAKEMOTOMW | | 44 42 40-4 | This list doesn't include any requirements for or to provide the inlet distribution manifold. | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | 44 42 40-4 | Will add description. | | 3 | | | | |
| DG | | 44 42 40-5 | This training should cover day and night shifts (TYP for all equipment) | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | 44 42 40-5 | Acknowledged. | | 3 | | | | |
| DG | | 44 42 40-5 | Add section stating something to the effect of the following - If the manufacturer's field service time required by this section is not sufficient to properly place the equipment into operation, and the requirement for additional time is beyond the manufacturer's responsibility, additional time shall be purchased by Design Builder to correct deficiencies in installation, equipment, or material without additional cost to the City. THIS IS TYPICAL, ADD ABOVE LANGUAGE TO MANUFACTURER'S SERVICES FOR ALL EQUIPMENT | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | 44 42 40-5 | This is not covered in the technical specifications. This language is included elsewhere. | | 3 | | | | |
| DG | | 44 42 40-5 | Does this correlate with what is in the contract? | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | 44 42 40-5 | Will coordinate with Startup and Testing. | | 3 | | | | |
| DG | | 44 42 40-5 | Add paragraph stating If required, the DB shall take corrective action and have the units retested to ensure full compliance with the specified requirements without additional cost to the City. THIS IS TYPICAL, ADD ABOVE LANGUAGE TO PERFORMANCE TESTING SECTION FOR ALL EQUIPMENT | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | 44 42 40-5 | This is not covered in the technical specifications. This language is included elsewhere. | | 3 | | | | |
| TAKEMOTOMW | | 44 42 40-5 | Confirm there are no requirements for performance testing of grit removal and or headloss. Testing requirements being discussed and negotiated with Startup and Testing team. Will coordinate with final outcome. | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | 44 42 40-5 | | | 3 | | | | |
| DG | | 44 42 41-7 | Performance testing of the grit capture is required, DB to coordinate with Headcell to define the parameters of the test. This is still in discussion. | | 3 | Youker | 12/6/2019 | | |
| kmaestri | | 44 42 41-7 | GMP Assumption: Include performance test. | | 3 | | | | \$ 25,000 |
| DG | | 44 42 41-7 | Where are spare part requirements? | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | 44 42 41-7 | Section 1.06. Currently no spare parts listed. Will coordinate final spare parts with final discussions with Owner. | | 3 | | | | |
| TAKEMOTOMW | | 44 42 41-7 | Confirm that performance testing of the grit capture criteria is not required. | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | 44 42 41-7 | This has been part of Startup Testing discussions. | | 3 | | | | |
| DG | | 44 42 48.01-1 | Call out location of sampler(s) and function | | 3 | White | 10/20/2019 | | |
| R White | | 44 42 48.01-1 | Will do. | | 3 | | | | |
| DG | | 44 42 48.01-1 | This is going to be the main sampling station for the RWF, is one sample adequate? City to verify whether more than one new sampler is required. Discuss with city. | | 3 | White | 12/6/2019 | | |
| R White | | 44 42 48.01-1 | GMP Assumption: Assume no scope change. | | 3 | | | | |
| TAKEMOTOMW | | 44 42 48.01-2 | Sample tubing? Sample bottles? | | 3 | White | 10/20/2019 | | |
| R White | | 44 42 48.01-2 | Will add. | | 3 | | | | |
| DG | | 44 42 48.01-3 | Make sure the sampler is located in a suitable location to pull suction from the CA structure, provide calculations for review. | | 3 | White | 10/20/2019 | | |
| R White | | 44 42 48.01-3 | Will provide documentation. | | 3 | | | | |
| DG | | 44 42 48.01-3 | why does this spec say "each sampler", only one sampler is provided? | | 3 | White | 10/20/2019 | | |
| R White | | 44 42 48.01-3 | Will clarify. | | 3 | | | | |
| TAKEMOTOMW | | 44 42 48.01-6 | Five days of support for a sampler seems like too much. Confirm. | | 3 | White | 10/20/2019 | | |
| R White | | 44 42 48.01-6 | Will confirm. | | 3 | | | | |
| TAKEMOTOMW | | 44 42 56.03-2 | Is this provided somewhere? | | 3 | Crook | 10/20/2019 | | |
| scrook | | 44 42 56.03-2 | This is still being negotiated and can be accessed via the Project Management. | | 3 | | | | |
| DG | | 44 42 56.09-1 | This section can be removed. | | 3 | Edwards | 10/20/2019 | | |
| kmaestri | | 44 42 56.09-1 | acknowledged | | 3 | | | | |
| DG | | 44 42 56.09-7 | A separate section for vibration testing of the VTSHs is required | | 3 | Crook | 10/20/2019 | | |

| Author (in gray rows) Responder (in white rows) | | | | | | | | | Direct Costs (Appropriate markups addressed in the Cost Model by company) | |
|--|--------------------------|--|---------------------------|-----------|----------|--------------------|---------------|-------------|--|-----------|
| | Page Label | Comments (in gray rows) | Responses (in white rows) | Commenter | Category | Assigned Responder | Date Answered | Backchecked | | |
| scrook | 44 42 56.09-7 | That is covered in the VTSH specification, not in this specification. | | | 3 | | | | | |
| | | There are little to no equipment or component specification requirements listed in Part 2. This specification is written more like a performance spec. Confirm. | | | 3 | Youker | 10/20/2019 | | | |
| TAKEMOTOMW | 44 42 56.12-4 | Equipment/component specs are part of the data sheet at end of section | | | 3 | | | | | |
| Bryan Youker | 44 42 56.12-4 | No efficiency requirement? Confirm. | | | 3 | Youker | 10/20/2019 | | | |
| TAKEMOTOMW | 44 42 56.12 SUPPLEMENT-2 | Not for these pumps. Want a pump to deliver flow at stated TDHs. | | | 3 | | | | | |
| Bryan Youker | 44 42 56.12 SUPPLEMENT-2 | 224 empty page, or are were there more valves on this page that were not included? | | | 3 | Edwards | 10/20/2019 | | | |
| DG | | 224 Will Verify. I believe it's an accidental blank page. | | | 3 | | | | | |
| dedwards | | | | | 3 | | | | | |
| VOLUME 4 | | | | | | | | | | |
| TAKEMOTOMW | A-110-14BLDG64 | Slope is opposite direction. | | | 3 | Pieterick | 10/20/2019 | | | |
| epieteri | A-110-14BLDG64 | Will reverse the arrow. | | | 3 | | | | | |
| | | Confirm that there is enough room to remove equipment from NE corner of room to the double doors on the SW corner of room. | | | 3 | Pieterick | 10/20/2019 | | | |
| DG | A-110-14BLDG64 | | | | 3 | | | | | |
| | | The North path to the double door never gets less than 7'-0" wide which should be plenty of space to maneuver the equipment to the door. The south path to the SW door is 5'-6" wide but the units do not have to turn to get to the door. We confirm the equipment can be removed from this plan. | | | 3 | | | | | |
| epieteri | A-110-14BLDG64 | Add door to keep wind-blown debris from gathering in this hallway Could then delete door to control room perhaps. | | | 3 | Pieterick | 12/6/2019 | | | |
| dbpeters | A-110-14BLDG64 | | | | 3 | | | | | |
| | | The battery room needs to have the door open to outside and the staff requested that the toilet room open to the outside. It is expected that the elevated floor will lessen the debri that might blow into this alcove. Per 10/22 meeting we will review the layout and figure out if there's a modification that will be made to accomodate the intent of the comment. | | | | | | | | |
| epieteri | A-110-14BLDG64 | GMP Assumption: Include scope change. | | | 3 | | | | | \$ 30,000 |
| DG | A-202-14BLDG64 | Confirm that doorway is big enough for equipment access (VFDs etc.) | | | 3 | Pieterick | 10/20/2019 | | | |
| | | THE CLEAR OPENING WITH THE TRANSOM REMOVED IS 7'-10 WIDE AND 8'-11" TALL. THE BIGGEST GEAR IS 8'-2" TALL AND 4 FT WIDE X 8 FT LONG. THE DOOR SHOULD HAVE PLENTY OF SIZE TO MOVE EQUIPMENT IN AND OUT . | | | 3 | | | | | |
| epieteri | A-202-14BLDG64 | Discuss location of roof access ladder with City electrical and ops | | | 3 | Pieterick | 10/20/2019 | | | |
| DG | A-301-14BLDG64 | Will locate ships ladder near the transformers as documented in the 10/22 meeting. | | | 3 | | | | | |
| epieteri | A-301-14BLDG64 | | | | 3 | | | | | |
| DG | C-003-05 | -1 | | | 3 | Chandler | 10/20/2019 | | | |
| kmaestri | C-003-05 | will consider renaming | | | 3 | | | | | |
| TAKEMOTOMW | C-003-05 | Structure ID for Headworks 1 should be 1HW1 in the legend. | | | 3 | Chandler | 10/20/2019 | | | |
| Sam Chandler | C-003-05 | Will verify with City staff and update | | | 3 | | | | | |
| | | There are 3 types of dashed lines used on this sheet, but only one shown in the legend. Its not clear what the distinction is amongst the three. | | | 3 | Chandler | 10/20/2019 | | | |
| TAKEMOTOMW | C-003-05 | Will add missing line types to legend. | | | 3 | | | | | |
| Sam Chandler | C-003-05 | Seems like the single lane over the drainage culvert could be a traffic bottleneck. Adding a secondary construction access point on the east side (e.g. from Los Esteros Rd) may be beneficial if available. Also consider requiring a temporary pedestrian boardwalk or similar, adjacent to vehicle culvert crossing for safety. | | | 3 | Chandler | 10/20/2019 | | | |
| | | Per meeting with client 10/22, Jacobs is not required to provide widening of the bridge or pedestrian improvements. | | | 3 | | | | | |
| Sam Chandler | C-003-05 | Contractor access arrow only points toward Zanker Road. It the intent that this would be used as an exist only? All other access arrows point both directions. | | | 3 | Chandler | 10/20/2019 | | | |
| TAKEMOTOMW | C-003-05 | Will add arrows pointing both directions. Zanker Road is primary entrance/exit for construction traffic. | | | 3 | | | | | |
| | | | | | 3 | | | | | |
| TAKEMOTOMW | C-003-05 | Work limits extended off the left side of the page and are not shown on the other Staging drawing. | | | 3 | Chandler | 10/20/2019 | | | |
| Sam Chandler | C-003-05 | Will adjust drawing limits to show full work area. | | | 3 | | | | | |
| TAKEMOTOMW | C-004-05 | Should the Construction Trailer Area be shown within the Contractor work limits? | | | 3 | Chandler | 10/20/2019 | | | |
| Sam Chandler | C-004-05 | Yes, will update. | | | 3 | | | | | |
| DG | C-004-05 | See CAD standards for location | | | 3 | Chandler | 10/20/2019 | | | |
| kmaestri | C-004-05 | will move | | | 3 | | | | | |
| | | What is the distinction between the 15 acre soil disposal area and the 40 acre soil disposal area? Are there any requirements for what can or can't be stored or disposed here? Any requires for the finished condition of these areas at the end of construction? | | | 3 | Chandler | 10/20/2019 | | | |
| TAKEMOTOMW | C-004-05 | The 15-acre disposal area is where the HW3 project intends to place soil within the 40-acre area identified by the City for soil disposal. Post construction, the soil added to the 15-acre area will be spread to a maximum of 1' thickness. | | | 3 | | | | | |
| Sam Chandler | C-004-05 | | | | 3 | | | | | |
| DG | C-004-05 | -2 | | | 3 | Chandler | 10/20/2019 | | | |
| kmaestri | C-004-05 | will consider renaming | | | 3 | | | | | |
| TAKEMOTOMW | C-100-05 | CG-103-05 | | | 3 | Chandler | 10/20/2019 | | | |

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| kmaestri | C-100-05 | | will fix | | 3 | | | | |
| TAKEMOTOMW | C-100-05 | | Lane not shown in the background | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | C-100-05 | | will coordinate | | 3 | | | | |
| DG | C-100-14B | | What loading was assumed to reduce the concrete thickness to 4-inches? What City equipment was assumed to be used in the basin? Further refining of the liner will be done at 90%. | | 3 | Chandler | 12/6/2019 | | |
| Sam Chandler | C-100-14B | | GMP Assumption: No scope change required. | | 3 | | | | |
| TAKEMOTOMW | C-100-14B | | Confirm extents where detail 5 should be used versus detail 2. | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | C-100-14B | | will do | | 3 | | | | |
| TAKEMOTOMW | C-101-05 | | Table needs to be completed. | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | C-101-05 | | Agree, coordinate tables will be populated at 90%. | | 3 | | | | |
| TAKEMOTOMW | C-103-05 | | Table needs to be completed. | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | C-103-05 | | yes will do at 90% design | | 3 | | | | |
| TAKEMOTOMW | C-104-05 | | Complete table. | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | C-104-05 | | to be done at 90% | | 3 | | | | |
| TAKEMOTOMW | C-104-05 | | If this is a concrete structure, are guard posts needed to protect it? | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | C-104-05 | | Guard posts protect above grade piping and equipment above grade. | | 3 | | | | |
| TAKEMOTOMW | C-104-05 | | What is the clearance requirement between the guard posts and the structure or piping? | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | C-104-05 | | per previous response they will be offset by 3' | | 3 | | | | |
| TAKEMOTOMW | C-104-05 | | S-110-1A is a structural drawing and does not show the required civil surface improvements required in this area. Those details need to be added. | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | C-104-05 | | Agree, will update site plan with restoration work required by demo at Milpitas Structure. | | 3 | | | | |
| TAKEMOTOMW | C-104-05 | | Why 4' spacing on one side and 3' spacing on the other? | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | C-104-05 | | Bollards have 4' spacing center to center and are offset from the vault by 3'. Will revise dimension locations to clarify. | | 3 | | | | |
| TAKEMOTOMW | C-105-05 | | Need to define what surface the pavement will be meeting up against. | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | C-105-05 | | will address in 90% design | | 3 | | | | |
| TAKEMOTOMW | C-105-05 | | Surface restoration for the wetland area needs to be defined. | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | C-105-05 | | will coordinate | | 3 | | | | |
| TAKEMOTOMW | C-105-05 | | Need to define what surface the pavement will be meeting up against. | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | C-105-05 | | will address in 90% design | | 3 | | | | |
| TAKEMOTOMW | C-106-05 | | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | C-106-05 | | no response needed for this one | | 3 | | | | |
| TAKEMOTOMW | C-106-05 | | Material needs to be defined. Gravel? Asphalt ground cover per client's preference to not have gravel and associated weed growth/maintenance issues. | | 3 | Chandler | 12/6/2019 | | |
| Sam Chandler | C-106-05 | | GMP Assumption: Include additional paving around Odor Control and in front of Screening. | | 3 | | | | \$ 32,329 |
| TAKEMOTOMW | C-106-05 | | Material needs to be defined. Gravel? | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | C-106-05 | | Ground cover here will be asphalt. | | 3 | | | | |
| TAKEMOTOMW | C-106-05 | | Are the abbreviations PC and PI defined anywhere? | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | C-106-05 | | Will update abbreviations list at beginning of plan set. | | 3 | | | | |
| TAKEMOTOMW | C-106-05 | | Coordinates for this edge are not defined. | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | C-106-05 | | will add | | 3 | | | | |
| TAKEMOTOMW | C-106-05 | | Edge of existing pavement? New surface is shown as gravel. | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | C-106-05 | | Surfacing should be shown as new pavement. | | 3 | | | | |
| TAKEMOTOMW | C-106-05 | | Leaders are not point to corner of structure. Confirm coordinates | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | C-106-05 | | will do | | 3 | | | | |
| TAKEMOTOMW | C-106-05 | | This is a physically separate structure from the Grit Basins. Suggest define coordinates. | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | C-106-05 | | will coordinate with structural | | 3 | | | | |
| TAKEMOTOMW | C-107-05 | | Material needs to be defined. Gravel? | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | C-107-05 | | Per meeting with client 10/22, ground cover here will be grass. | | 3 | | | | |
| TAKEMOTOMW | C-107-05 | | Is this lead meant to indicate where the fence should be relocated to? | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | C-107-05 | | No, it is meant to indicate fencing to be relocated. Fencing location was updated to reflect changes made during the Iron Salt project and the leaders weren't moved. | | 3 | | | | |
| TAKEMOTOMW | C-107-05 | | Coordinate needed? | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | C-107-05 | | will review | | 3 | | | | |
| TAKEMOTOMW | C-107-05 | | This detail is not included with the standard detail package. | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | C-107-05 | | Detail to be added at 90% | | 3 | | | | |
| TAKEMOTOMW | C-107-05 | | Material needs to be defined. Gravel? | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | C-107-05 | | Per meeting with client 10/22, existing ground cover (mostly gravel) will be maintained around EBOS. | | 3 | | | | |
| DG | C-107-05 | | Add note "Slope Finish Grade away from structures and evenly to drains" | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | C-107-05 | | will do where applicable | | 3 | | | | |

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| TAKEMOTOMW | | C-107-05 | Material needs to be defined. Gravel? | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | | C-107-05 | Per meeting with client 10/22, existing ground cover (mostly gravel) will be maintained around Ferric Chloride. | | 3 | | | | |
| TAKEMOTOMW | | C-108-05 | Depiction for relocated chainlink fence does not appear to be complete. Chainlink fence linework does not match what is shown in the Civil Legend drawing. | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | | C-108-05 | Existing fence line work needs to be updated to reflect changes made with Iron Salt project. New fence will be coordinated with those updates. | | 3 | | | | |
| DG | | C-108-05 | "ed" | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | | C-108-05 | Will correct. | | 3 | | | | |
| TAKEMOTOMW | | C-301-148 | Ridge does not appear to be centered. How will location be determined? | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | | C-301-148 | Crown of road is centered. Section view cuts off outside edge of road, will update at 90%. Grading not changing, existing crown location will be matched. | | 3 | | | | |
| TAKEMOTOMW | | C-301-148 | Is there a detail for the 4" thick liner sections? | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | | C-301-148 | Yes, see detail 1 on C-501-148 | | 3 | | | | |
| dbpeters | | C-501-05 | Does this pipe slope towards EBOS? Will odor control be effective sucking off the end of this line? | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | | C-501-05 | Pipe slopes towards EBOS. Detail will be updated to show sloped pipe. | | 3 | | | | |
| TAKEMOTOMW | | C-501-05 | Consider adding a rock trap downstream on the 12" SP. Any debris that makes into the pipe will end up in EBOS and will be difficult to remove from that location. | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | | C-501-05 | Per meeting with client 10/22, rock traps will be provided at each septage receiving pipe | | 3 | | | | |
| TAKEMOTOMW | | C-501-05 | Additional detail dimensions and elevations need to be added to the sheet. | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | | C-501-05 | will add. | | 3 | | | | |
| TAKEMOTOMW | | C-501-05 | Confirm there is not curb here as indicated in Section B below. | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | | C-501-05 | Containment curb will be provided at this location. | | 3 | | | | |
| TAKEMOTOMW | | C-501-05 | Will there be a grate or basket to prevent large debris from entering the pipe? | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | | C-501-05 | Per meeting with client 10/22, rock traps will be provided at each septage receiving pipe, a dumpster provided to empty rock traps into, and washdown hose bibs. | | 3 | | | | |
| DG | | C-501-05 | sp. | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | | C-501-05 | will fix | | 3 | | | | |
| DG | | C-501-05 | Rename to Septage Receiving Station | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | | C-501-05 | will do | | 3 | | | | |
| TAKEMOTOMW | | C-501-148 | If there is a curb here where does runoff go? Per grading plans, drainage is slope to the curb | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | | C-501-148 | Curb cutouts will be provided to allow drainage into EOB. Additional detail to be provided at 90%. | | 3 | | | | |
| TAKEMOTOMW | | CE-101-05 | Key note is not pointing to anything specific. Refers to pipe trench, but none shown | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | | CE-101-05 | will fix | | 3 | | | | |
| TAKEMOTOMW | | CE-101-05 | These arrows are pointing to an area with not BMPs shown. | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | | CE-101-05 | Will update and provide BMPs where appropriate. | | 3 | | | | |
| TAKEMOTOMW | | CE-101-05 | Linework not defined/ labeled, typ. | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | | CE-101-05 | Will add labels or add to legend at 90%. | | 3 | | | | |
| TAKEMOTOMW | | CE-101-05 | Not clear what the purpose of this arrow is. Are BMPs needed in this drainage area? | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | | CE-101-05 | Arrows will be updated to reflect drainage patterns within the project work limits. | | 3 | | | | |
| TAKEMOTOMW | | CE-101-05 | Suggest adding the work limits to this sheet to help clarify areas where BMPs will be needed. | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | | CE-101-05 | will consider | | 3 | | | | |
| TAKEMOTOMW | | CE-101-05 | Runoff from top of structure? | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | | CE-101-05 | Yes, parts of the structure runoff to surrounding paving. | | 3 | | | | |
| DG | | CE-102-05 | Does this point refer to the extent of paving? If so state. | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | | CE-102-05 | Note identifies bridge as second location for construction access to HW3. Paving limits are identified on site plans. Will change arrow to indicate this road in a more general manner. | | 3 | | | | |
| TAKEMOTOMW | | CE-102-05 | Not clear what TC-1 means. | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | | CE-102-05 | TC-1 will be replaced by callout to Keynote 5, which defines TC-1. | | 3 | | | | |
| DG | | CE-102-05 | Refer specification and/or documents detailing the SWPPP. | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | | CE-102-05 | will do | | 3 | | | | |
| TAKEMOTOMW | | CE-102-05 | Fix leader | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | | CE-102-05 | ok | | 3 | | | | |
| DG | | CE-102-05 | Follow placement and format of notes for all drawings | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | | CE-102-05 | ok | | 3 | | | | |
| TAKEMOTOMW | | CE-102-05 | Line work for erosion control fence next to EOB not shown. Should be added | | 3 | Chandler | 12/6/2019 | | |
| | | | EOB is grass lined, will be grubbed prior to placement of the liner, and drains back to EBOS. Any runoff from HW3 that gets into EBOS will go back into the treatment system and will not leave the plant. Erosion control barrier measures at the EOB discharge structure in the SE corner can be added at 90%. | | | | | | |
| Sam Chandler | | CE-102-05 | GMP Assumption: Assume no scope change. | | 3 | | | | |
| DG | | CE-102-05 | Change all "Subcontractor" language to Design-Builder | | 3 | Chandler | 10/20/2019 | | |

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| kmaestri | CE-102-05 | | will fix as agreed to per Division 1 meetings | | 3 | | | | |
| TAKEMOTOMW | CE-102-05 | | Fix leader | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | CE-102-05 | | ok | | 3 | | | | |
| TAKEMOTOMW | CE-103-05 | | Callouts needed for SWPPP control measures needed in this area? | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | CE-103-05 | | Yes, will update. | | 3 | | | | |
| DG | CE-103-05 | | Did you mean the "RWF"? | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | CE-103-05 | | Yes, will update. | | 3 | | | | |
| DG | CE-103-05 | | Add note on height of stockpile and other general design criteria (where sloped to, etc.) | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | CE-103-05 | | will coordinate with the specs and add as needed | | 3 | | | | |
| DG | CE-103-05 | | Should this be in a spec? | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | CE-103-05 | | Note should be part of the "General" notes. Will verify matches with erosion control spec language. | | 3 | | | | |
| dbpeters | CE-103-05 | | Need a grading and drainage plan for the stockpile area | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | CE-103-05 | | Will add plan with 90% design. | | 3 | | | | |
| TAKEMOTOMW | CF-100-05 | | Does the space below the grit inlet channel need to be considered for occupancy requirements? | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | CF-100-05 | | No, that space is not accessible and unavailable for occupation. | | 3 | | | | |
| DG | CF-100-05 | | Is it standard practice for Jacobs to design to NFPA 820, and is this design in accordance with NFPA 820? Or is the assumption that the City of San Jose will not adhere to NFPA 820 in the design year? This drawing shows only the site civil components related to the fire protection and is not all encompassing. The applicable requirements of NFPA 820 as a referenced standard to the NEC are incorporated into the overall design. | | 3 | Chandler | 10/20/2019 | | |
| Forester | CF-100-05 | | Verify location with Fire Dept. | | 3 | Chandler | 10/20/2019 | | |
| DG | CF-100-05 | | Fire hydrants are placed per spacing requirements of the California fire code. | | 3 | | | | |
| Sam Chandler | CF-100-05 | | Add Sheet Notes regarding codes being followed and any exemptions provided by the Fire Dept. | | 3 | Chandler | 10/20/2019 | | |
| DG | CF-100-05 | | The large number of codes, statutes, standards and references that have governance over the design is far to extensive to list out on a drawing intended to show the elements of the design resulting there from. | | 3 | | | | |
| Forester | CF-100-05 | | Add general note "Irrigation pipes and appurtenances will be rerouted where interferes with new facilities" | | 3 | Chandler | 12/6/2019 | | |
| DG | CG-103-05 | | Will add note to plans. | | 3 | | | | |
| Sam Chandler | CG-103-05 | | GMP Assumption: Include scope change. | | 3 | | | | \$ 10,000 |
| TAKEMOTOMW | CG-103-05 | | The perimeter boundary of the work area needs to be defined. | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | CG-103-05 | | Will update with coordinates. | | 3 | | | | |
| TAKEMOTOMW | CG-103-05 | | Not clear what this line is? | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | CG-103-05 | | Existing edge of pavement to be restored after 96" RS pipe construction. Sawcut line missing. Will update. | | 3 | | | | |
| TAKEMOTOMW | CG-103-05 | | Should a ridge line be shown here? | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | CG-103-05 | | Yes | | 3 | | | | |
| TAKEMOTOMW | CG-105-05 | | How are the extents of the grading limits defined/determined? | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | CG-105-05 | | Proposed grade minus existing grade and then sloping at 4H:1V to make up the difference. | | 3 | | | | |
| TAKEMOTOMW | CG-105-05 | | General note. Only a few existing contours are labeled in the background. How will cut and fill quantities be determined? | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | CG-105-05 | | Cut and fill quantities are determined from the existing and proposed grade surface models. | | 3 | | | | |
| TAKEMOTOMW | CG-105-05 | | Additional labels for existing contours will be added. | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | CG-105-05 | | 9-foot contour line? Label. | | 3 | | | | |
| TAKEMOTOMW | CG-105-05 | | will do | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | CG-105-05 | | Is there a detail for this? | | 3 | Chandler | 10/20/2019 | | |
| TAKEMOTOMW | CG-105-05 | | Detail to be added to drawing set. | | 3 | | | | |
| kmaestri | CG-106-05 | | no response needed | | 3 | Chandler | 10/20/2019 | | |
| TAKEMOTOMW | CG-106-05 | | What is this line? | | 3 | | | | |
| SC036293 | CG-106-05 | | Existing gravel road edge, will be removed from drawing at 90%. | | 3 | Chandler | 10/20/2019 | | |
| TAKEMOTOMW | CG-106-05 | | Elevation label missing. | | 3 | | | | |
| kmaestri | CG-106-05 | | will add at 90% | | 3 | Chandler | 10/20/2019 | | |
| TAKEMOTOMW | CG-106-05 | | Surrounding area drains to this gravel area. Any concerns with drainage in this area? | | 3 | | | | |
| SC036293 | CG-106-05 | | Area will be paved and graded to drain to the NE of Vacuum Truck facility at 90% | | 3 | Chandler | 10/20/2019 | | |
| TAKEMOTOMW | CG-106-05 | | Suggest paving this area and raising the elevation to facilitate access to the front of the screening structure. | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | CG-106-05 | | Per meeting with client 10/22, grade asphalt grade will be raised at east end of the screens to match deck grade. | | 3 | | | | |
| TAKEMOTOMW | CG-106-05 | | Structural drawing shows TO CONC at EL 9.23 on S-113-14BLDG64. Surrounding grade needs to match from ramp access. | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | CG-106-05 | | will coordinate | | 3 | | | | |

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| TAKEMOTOMW | CG-106-05 | Leader pointing to wrong location. | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | CG-106-05 | will fix | | | 3 | | | | |
| TAKEMOTOMW | CG-106-05 | Coordinate and elevation need to be called out. | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | CG-106-05 | will add at 90% | | | 3 | | | | |
| TAKEMOTOMW | CG-106-05 | Looks like there is a ridge here somewhere? | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | CG-106-05 | will review | | | 3 | | | | |
| TAKEMOTOMW | CG-106-05 | What is the elevation along the edge of this building? | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | CG-106-05 | will confirm | | | 3 | | | | |
| TAKEMOTOMW | CG-106-05 | Complete table. | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | CG-106-05 | will do at 90% | | | 3 | | | | |
| TAKEMOTOMW | CG-106-05 | This area is fairly flat. Confirm adequate drainage. | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | CG-106-05 | will do | | | 3 | | | | |
| TAKEMOTOMW | CG-106-05 | Elevation label missing. | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | CG-106-05 | will add at 90% | | | 3 | | | | |
| | | Top of wall on the EOB Feed structure is called out as EL12.0 which is lower than the ~EL 12.7 shown. | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | CG-106-05 | will review | | | 3 | | | | |
| TAKEMOTOMW | CG-106-05 | General note. Only a few existing contours are labeled in the background. How will cut and fill quantities be determined? | | | 3 | Chandler | 10/20/2019 | | |
| | | Cut and fill quantities are calculated from surface models in CAD. Additional labels will be added to the contours at 90%. | | | 3 | | | | |
| SC036293 | CG-106-05 | Low point. Will runoff drain to the unpaved area? | | | 3 | Chandler | 10/20/2019 | | |
| TAKEMOTOMW | CG-107-05 | Per meeting with client 10/22, additional stormwater collection and pump station will be required to collect runoff south of EBOS. | | | 3 | | | | |
| Sam Chandler | CG-107-05 | General note. Only a few existing contours are labeled in the background. How will cut and fill quantities be determined? | | | 3 | Chandler | 10/20/2019 | | |
| TAKEMOTOMW | CG-107-05 | Cut and fill quantities are calculated from surface models in CAD. Additional labels will be added to the contours at 90%. | | | 3 | | | | |
| SC036293 | CG-107-05 | Add septage receiving station N/E and inverts | | | 3 | Chandler | 10/20/2019 | | |
| DG | CG-107-05 | Piping information provided on yard piping drawings. | | | 3 | | | | |
| Sam Chandler | CG-107-05 | Label | | | 3 | Chandler | 10/20/2019 | | |
| TAKEMOTOMW | CG-107-05 | ok | | | 3 | | | | |
| kmaestri | CG-107-05 | Not clear what existing grade is here. Confirm adequate drainage away from the low point indicated. | | | 3 | Chandler | 10/20/2019 | | |
| TAKEMOTOMW | CG-107-05 | Per 10/22 client meeting, additional catch basins and a stormwater pump station will be added in this area to collect runoff. Additional grading information to be provided at 90%. | | | 3 | | | | |
| SC036293 | CG-107-05 | 9 and 6 contour lines look the same. | | | 3 | Chandler | 10/20/2019 | | |
| TAKEMOTOMW | CG-107-05 | will review | | | 3 | | | | |
| kmaestri | CG-107-05 | This elevation seems incorrect. | | | 3 | Chandler | 10/20/2019 | | |
| TAKEMOTOMW | CG-107-05 | will confirm | | | 3 | | | | |
| kmaestri | CG-107-05 | This detail is not in the standard details. | | | 3 | Chandler | 10/20/2019 | | |
| TAKEMOTOMW | CG-107-05 | Detail to be added to drawing set. | | | 3 | | | | |
| Sam Chandler | CG-107-05 | This area seems like a low point. Confirm drainage in this area. | | | 3 | Chandler | 10/20/2019 | | |
| TAKEMOTOMW | CG-107-05 | Per meeting with client 10/22/2019, additional stormwater collection, piping, and pump stations to be added in this area. | | | 3 | | | | |
| Sam Chandler | CG-107-05 | This edge will also be a ridge line. | | | 3 | Chandler | 10/20/2019 | | |
| TAKEMOTOMW | CG-107-05 | will review | | | 3 | | | | |
| kmaestri | CG-107-05 | Show radius of all the grading cuts in a Curve Table (TYP) | | | 3 | Chandler | 10/20/2019 | | |
| DG | CG-107-05 | Additional grading information will be provided at 90%. | | | 3 | | | | |
| kmaestri | CG-107-05 | Label 9 | | | 3 | Chandler | 10/20/2019 | | |
| TAKEMOTOMW | CG-107-05 | will fix | | | 3 | | | | |
| kmaestri | CG-107-05 | This area seems very flat. Confirm adequate drainage is provided. | | | 3 | Chandler | 10/20/2019 | | |
| TAKEMOTOMW | CG-107-05 | Per meeting with client 10/22/2019, additional stormwater collection, piping, and pump stations to be added in this area. | | | 3 | | | | |
| Sam Chandler | CG-107-05 | Label | | | 3 | Chandler | 10/20/2019 | | |
| TAKEMOTOMW | CG-107-05 | will fix | | | 3 | | | | |
| kmaestri | CG-107-05 | Confirm spot elevations along the edge | | | 3 | Chandler | 10/20/2019 | | |
| TAKEMOTOMW | CG-107-05 | ok | | | 3 | | | | |
| | | | | | | | | | |
| TAKEMOTOMW | CG-108-05 | Confirm elevation. The edge of pavement here seems to be a low point between two EL 6 contours. | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | CG-108-05 | will confirm | | | 3 | | | | |
| | | | | | | | | | |
| TAKEMOTOMW | CG-108-05 | Confirm elevation. The edge of pavement here seems to be a low point between two EL 6 contours. | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | CG-108-05 | will confirm | | | 3 | | | | |
| TAKEMOTOMW | CG-301-05 | Should be CG, not C. | | | 3 | Chandler | 10/20/2019 | | |

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|--|-----------|------------|---|-----------|----------|--------------------|---------------|-------------|--|
| kmaestri | CG-301-05 | | will correct as needed | | 3 | | | | |
| DG | CG-301-05 | | Show the new design slope (TYP) | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | CG-301-05 | | will add | | 3 | | | | |
| DG | CG-301-05 | | Call out Drawing No. | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | CG-301-05 | | will consider | | 3 | | | | |
| TAKEMOTOMW | CG-301-05 | | Should be CG, not C. | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | CG-301-05 | | will correct as needed | | 3 | | | | |
| TAKEMOTOMW | CG-301-05 | | There is a 30" FA line here that is not shown. | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | CG-301-05 | | will review | | 3 | | | | |
| TAKEMOTOMW | CG-301-05 | | Does the 2" IPA pipe need to be this deep? | | 3 | Chandler | 10/20/2019 | | |
| SC036293 | CG-301-05 | | No, will coordinate making IPA shallower at 90%. | | 3 | | | | |
| MBritten | CG-301-05 | | Hydraulic profile shows a TOC elevation of 13.0 upst of pumps and 8.00 at pump base | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | CG-301-05 | | correct | | 3 | | | | |
| TAKEMOTOMW | CG-301-05 | | Should be CG, not C. | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | CG-301-05 | | will correct as needed | | 3 | | | | |
| TAKEMOTOMW | CG-301-05 | | Detail should refer relevant specs for subgrade preparation. | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | CG-301-05 | | Material callout will be updated to match specs. | | 3 | | | | |
| DG | CG-301-05 | | Section cut not shown on C-106-05 (TYP) | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | CG-301-05 | | Will update to CG-106-05 | | 3 | | | | |
| MBritten | CG-301-05 | | Too high? | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | CG-301-05 | | No, road elevations and top of concrete will be coordinated at 90% | | 3 | | | | |
| | | | Is this the existing 120" RS. If so its roughly 100 feet away from the edge of the headworks structure and would not show up on this sheet. | | | | | | |
| TAKEMOTOMW | CG-301-05 | | Yes, this is the existing 120" RS. The existing 120" RS is roughly 40' away. Existing 84" RS is approximately 100' away. | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | CG-301-05 | | | | 3 | | | | |
| MBritten | Cover A | | | | 3 | Maestri | 10/20/2019 | | |
| kmaestri | Cover A | | no response needed | | 3 | | | | |
| dbpeters | Cover A | | | | 3 | | 10/20/2019 | | |
| kmaestri | Cover A | | will fix | | 3 | | | | |
| dbpeters | Cover A | | Leave title as is | | 3 | Maestri | 10/20/2019 | | |
| KandiMaestri | Cover A | | ok | | 3 | | | | |
| dbpeters | Cover A | | Use the 60% image not the 30% image | | 3 | Williamson | 10/20/2019 | | |
| KandiMaestri | Cover A | | Agreed. will update for 90% as well. | | 3 | | | | |
| DG | CP-101-07 | | Where is this rectifier? | | 3 | Wenger | 10/20/2019 | | |
| DW055011 | CP-101-07 | | Rectifier is located in the Electrical Building. See Keynote 3 on Drawing CP-106-07 | | 3 | | | | |
| TAKEMOTOMW | CX-100-05 | | Suggest adding coordinates or other means of determining the extent of demolition. | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | CX-100-05 | | Demolition area plans will be updated to define limits of demo work at 90%. | | 3 | | | | |
| DG | CX-100-05 | | Remove unless this is a catch-all comment. This comment is repeated on individual sheets. | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | CX-100-05 | | Keynotes to be removed from overall plans. | | 3 | | | | |
| DG | CX-101-05 | | Suggest referring to an I&C demo schematic showing exactly what is required. | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | CX-101-05 | | will consider | | 3 | | | | |
| DG | CX-101-05 | | say "demolish NE corner of HW1", see... | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | CX-101-05 | | will consider | | 3 | | | | |
| DG | CX-101-05 | | "Design-Builder" TYP | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | CX-101-05 | | will coordinate with terminology agreed upon in Division 1 meetings | | 3 | | | | |
| DG | CX-101-05 | | Existing structure names can be shaded back | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | CX-101-05 | | will consider but will make them hard to read | | 3 | | | | |
| DG | CX-101-05 | | Is this demo required? Jacobs to discuss with the City on alternate route, if feasible. | | 3 | Edwards | 10/20/2019 | | |
| Sam Chandler | CX-101-05 | | Jacobs determined HW1 demo required to fit City required piping through this area. | | 3 | | | | |
| TAKEMOTOMW | CX-102-05 | | Label pipeline | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | CX-102-05 | | Will do. | | 3 | | | | |
| TAKEMOTOMW | CX-102-05 | | Does the 78" RS get abandoned? Any requirements for capping? | | 3 | Chandler | 10/20/2019 | | |
| | | | Per meeting with City 10/22, separate meeting between City and Jacobs required to discuss pipe abandonment requirements. Typical all piping shown as abandoned. | | 3 | | | | |
| Sam Chandler | CX-102-05 | | Does the 84" RS get abandoned? Any requirements for capping? | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | CX-102-05 | | Pipes connected to Junction Box 1 will be capped at the junction box | | 3 | | | | |
| | | | Location of Key Notes 1,2,3,4 not marked on the sheet to indicate handholes to be preserved and ductbank to be demolished | | 3 | Chandler | 10/20/2019 | | |
| BSS | CX-102-05 | | | | 3 | | | | |
| Sam Chandler | CX-102-05 | | Keynote list is not drawing specific. Some keynotes shown are not used on all drawings. | | 3 | | | | |
| | | | Not clear if the dashed line means anything. Any pipes being demolished or abandoned should be labeled. | | 3 | Chandler | 10/20/2019 | | |
| TAKEMOTOMW | CX-103-05 | | Will update linework and labels | | 3 | | | | |
| Sam Chandler | CX-103-05 | | Location of Key Note 2 is not marked on the sheet to indicate which Fiber Optic ductbank to be demolished | | 3 | Chandler | 10/20/2019 | | |
| BSS | CX-103-05 | | | | 3 | | | | |
| Sam Chandler | CX-103-05 | | Keynote list is not drawing specific. Some keynotes shown are not used on all drawings. | | 3 | | | | |

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|--|---------------|--|-----------|----------|--------------------|---------------|-------------|--|
| DG | CX-103-05 | Only include notes relevant to the sheet (TYP) | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | CX-103-05 | will fix | | 3 | | | | |
| BSS | CX-104-05 | Location of Key Note 1,2 not indicated | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | CX-104-05 | will fix | | 3 | | | | |
| TAKEMOTOMW | CX-104-05 | Existing pipe linework is missing. | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | CX-104-05 | this is being updated for 90% | | 3 | | | | |
| TAKEMOTOMW | CX-104-05 | Existing pipes on this sheet need to be labeled. | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | CX-104-05 | will consider | | 3 | | | | |
| BSS | CX-105-05 | Location of handholes to be demolished as per Key Note 4 not marked on sheet | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | CX-105-05 | will coordinate | | 3 | | | | |
| DG | CX-105-05 | Indicate extents (N/E) - TYPICAL | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | CX-105-05 | will review and modify as needed | | 3 | | | | |
| DG | CX-106-05 | Indicate extents of all paving/demo site work (N/E) - TYPICAL | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | CX-106-05 | Coordinates will be added at 90% | | 3 | | | | |
| BSS | CX-106-05 | Location of Key Note 3 not marked | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | CX-106-05 | will fix | | 3 | | | | |
| TAKEMOTOMW | CX-106-05 | Define limit of demolition | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | CX-106-05 | will do | | 3 | | | | |
| TAKEMOTOMW | CX-107-05 | Label | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | CX-107-05 | Will do. | | 3 | | | | |
| TAKEMOTOMW | CX-107-05 | Is the intent that the existing fence material will be relocated or that the existing fence should be removed and a new one installed in a different location? | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | CX-107-05 | Existing fence will be removed and new fence installed. | | 3 | | | | |
| TAKEMOTOMW | CX-107-05 | Not clear what this line work is. | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | CX-107-05 | Linework displaying incorrectly, will fix at 90%. Existing piping to remain. | | 3 | | | | |
| TAKEMOTOMW | CX-107-05 | Not clear what facility is being referred to or the work required to demolish it. | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | CX-107-05 | will clarify in 90% | | 3 | | | | |
| BSS | CX-107-05 | Location of Key Note 4 not marked | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | CX-107-05 | will fix | | 3 | | | | |
| DG | D-100-14HW3IS | Assume we use a lot of slide gates for isolation, suggest finding a location here for a "gate locker" for storing the gates. This is being discussed in other comments as well. See written responses for final direction. | | 3 | Youker | 12/6/2019 | | |
| Bryan Youker | D-100-14HW3IS | GMP Assumption: This item is addressed in QRF list. Include gate lockers. | | 3 | | | | |
| DG | D-100-14HW3IS | Assume these are to isolate influent gates - what is the strategy to prevent backflow? Why need these slots if there is a gate to isolate HW3 flow altogether? Slots and plates will be provided as discussed on 10/22. City will have the ability to isolate each gate. | | 3 | Youker | 12/6/2019 | | |
| Bryan Youker | D-100-14HW3IS | GMP Assumption: This item is addressed in QRF list. Include slots and stop plates. | | 3 | | | | |
| TAKEMOTOMW | D-100-14HW3PS | Not shown on Y-106-07 | | 3 | Crook | 10/20/2019 | | |
| scrook | D-100-14HW3PS | This will be coordinated in 90%. | | 3 | | | | |
| TAKEMOTOMW | D-100-14HW3PS | Only one 1 1/2" WTR3/RW connections is shown on Y-106-07 | | 3 | Crook | 10/20/2019 | | |
| scrook | D-100-14HW3PS | This will be coordinated in 90%. | | 3 | | | | |
| TAKEMOTOMW | D-100-14HW3PS | /RW | | 3 | Crook | 10/20/2019 | | |
| scrook | D-100-14HW3PS | Noted. | | 3 | | | | |
| TAKEMOTOMW | D-101-14HW3GB | Consider adding a equipment access doorway here and extending the monorail outside to facilitate the pickup of equipment from outside the building. The south side (where pointing) is constricted and limited for fire truck access. We were worried about man-door swing, but a seldom used roll-up door may be feasible. | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | D-101-14HW3GB | Complete detail | | 3 | Youker | 10/20/2019 | | |
| TAKEMOTOMW | D-101-14HW3IS | Will complete std detail callouts. | | 3 | | | | |
| Bryan Youker | D-101-14HW3IS | /RW | | 3 | Youker | 10/20/2019 | | |
| TAKEMOTOMW | D-101-14HW3IS | Will coordinate flow streams. | | 3 | | | | |
| dbpeters | D-101-14HW3IS | Can we tie the 18" directly to the 40" condensate manhole so that the 18" doesn't stick out into the asphalt roadway? | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | D-101-14HW3IS | Will review layout and revise if feasible. | | 3 | | | | |
| TAKEMOTOMW | D-102-14HW3GB | | | 3 | Youker | 10/20/2019 | | |
| kmaestri | D-102-14HW3GB | no response required | | 3 | | | | |
| TAKEMOTOMW | D-102-14HW3GB | Label | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | D-102-14HW3GB | Agree. will label. | | 3 | | | | |
| TAKEMOTOMW | D-102-14HW3IS | Label | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | D-102-14HW3IS | Typically do not label piping on outside of matchlines. Will review final presentation and make sure no conflicting into and include. | | 3 | | | | |
| TAKEMOTOMW | D-103-14HW3GB | Confirm dumpsters will have wheel stops or curbs. | | 3 | Youker | 10/20/2019 | | |

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| Bryan Youker | | D-103-14HW3GB | Will have similar detail as Screenings Dumpster rails. | | 3 | | | | |
| TAKEMOTOMW | | D-110-12RECYPS1 | Pipe supports needed. | | 3 | Edwards | 10/20/2019 | | |
| dedwards | | D-110-12RECYPS1 | Pipe supports will be design post 60% | | 3 | | | | |
| dbpeters | | D-110-14A | Look into splitting Compartment B into 4 compartments with openings with stop plate guides to provide ultimate shutdown flexibility. Have considered. Can add additional walls, gates, etc. However, will increase scope and cost. Provide direction. | | 3 | Youker | 12/6/2019 | | |
| Bryan Youker | | D-110-14A | GMP Assumption: City provided alternate sketch. Costs included within Cost Model. | | 3 | | | | |
| TAKEMOTOMW | | D-110-14A | Confirm plug valves are desired for WTR3/RW. | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | D-110-14A | Can revise plug valves to butterfly valves. | | 3 | | | | |
| dbpeters | | D-110-14A | Show and call out all existing gates. Show existing pipes from TP5 | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | D-110-14A | Will model existing gates even though we are not changing them or are they part of scope of work. | | 3 | | | | |
| DG | | D-110-14A | Add Note saying Centrate lines are not installed as part of this contract and the two feed lines are shown for informational purposes only. | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | D-110-14A | Will add note. | | 3 | | | | |
| DG | | D-110-14A | Wall will most likely do nothing to substantially speed up grit velocities, remove. Consider other means to improve grit approach velocities. | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | D-110-14A | See other comments. Per CFD results, generally agree to not install as shown. Evaluating alternative configuration. | | 3 | | | | |
| DG | | D-110-14A | Show pumps in compartment A There are no pumps in SW corner of Compartment A of EBOS. There are return pumps in the SE corner of Comp A of EBOS. But since we are not modifying or replacing, we have not modeled them. | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | D-110-14A | | | 3 | | | | |
| TAKEMOTOMW | | D-110-14HW3IS | | | 3 | Youker | 10/20/2019 | | |
| kmaestri | | D-110-14HW3IS | no response needed here | | 3 | | | | |
| TAKEMOTOMW | | D-110-14HW3IS | As depicted the discharge chutes are not long enough to deposit material into the dumpsters. Extend. | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | D-110-14HW3IS | Will revise model to include longer discharge tubes. | | 3 | | | | |
| TAKEMOTOMW | | D-110-14ODO | /RW | | 3 | Cowden | 10/20/2019 | | |
| scowden | | D-110-14ODO | Concur. | | 3 | | | | |
| TAKEMOTOMW | | D-110-14ODO | Difficult to tell what is here. | | 3 | Cowden | 10/20/2019 | | |
| scowden | | D-110-14ODO | Isometric will be provided as part of 90%. | | 3 | | | | |
| TAKEMOTOMW | | D-110-14RECYPS | Pipe supports not shown. | | 3 | Edwards | 10/20/2019 | | |
| dedwards | | D-110-14RECYPS | Pipe supports will be designed post 60%. | | 3 | | | | |
| dbpeters | | D-110-14RECYPS | Will these valves be located in a confined space? Move above grade? | | 3 | Edwards | 12/6/2019 | | |
| | | | Yes. The piping can be moved above grade. | | | | | | |
| dedwards | | D-110-14RECYPS | GMP Assumption: Assume scope is a tradeoff. | | 3 | | | | |
| TAKEMOTOMW | | D-110-23 | Add pipe centerline and other elevations. | | 3 | Edwards | 10/20/2019 | | |
| dedwards | | D-110-23 | Will add elevations to match existing pipe elevations. | | 3 | | | | |
| TAKEMOTOMW | | D-111-14HW3IS | Suggest adding a hose bib and rack on this side for cleaning the front of the screens | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | D-111-14HW3IS | Agree. Can add to front side of screens. | | 3 | | | | |
| TAKEMOTOMW | | D-111-14HW3IS | Label | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | D-111-14HW3IS | Typically try to have minimal annotation for an area that is presented on another drawing as a detail. Usually only callout equipment and instrumentation. | | 3 | | | | |
| TAKEMOTOMW | | D-112-14HW3IS | | | 3 | Youker | 10/20/2019 | | |
| kmaestri | | D-112-14HW3IS | no response required | | 3 | | | | |
| TAKEMOTOMW | | D-112-14HW3IS | Confirm the dumpster truck can connect to and remove the bin when it is all the way into the structure. | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | D-112-14HW3IS | Truck should be able to "drag" dumpster to front, then tip up on to truck | | 3 | | | | |
| TAKEMOTOMW | | D-112-14HW3IS | Suggest removing canopy beams from this view for clarity. | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | D-112-14HW3IS | Will review presentation. | | 3 | | | | |
| TAKEMOTOMW | | D-112-14HW3IS | Label | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | | D-112-14HW3IS | Will add annotation. | | 3 | | | | |
| TAKEMOTOMW | | D-120-1P | As written it is not clear if capping the 82" is part of this contract or if it has already been capped. Clarify. | | 3 | White | 10/20/2019 | | |
| R White | | D-120-1P | Will clarify. | | 3 | | | | |
| TAKEMOTOMW | | D-120-1P | Locating the sampler on top of the California structure is likely not ideal for lab staff. Suggest asking City if locating the sampler at ground elevation next to the structure would be preferable. Will discuss with client. | | 3 | White | 12/6/2019 | | |
| R White | | D-120-1P | GMP Assumption: Assume no scope change. | | 3 | | | | |

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| TAKEMOTOMW | D-120-1P | Section cut arrow should be facing opposite direction based on the view shown on D-301-1f | | 3 | White | 10/20/2019 | | |
| R White | D-120-1P | Will correct. | | 3 | | | | |
| TAKEMOTOMW | D-120-2D | Additional detail development is needed on this sheet. | | 3 | White | 10/20/2019 | | |
| R White | D-120-2D | Noted. | | 3 | | | | |
| TAKEMOTOMW | D-120-2D | This structure does not show up on the civil or yard piping drawings. | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | D-120-2D | Will add to civil and yard piping drawings at 90% | | 3 | | | | |
| TAKEMOTOMW | D-120-11E | Confirm a vent is not needed on this line. | | 3 | White | 10/20/2019 | | |
| R White | D-120-11E | Will verify | | 3 | | | | |
| TAKEMOTOMW | D-120-11E | Confirm how this cantilevered pipe will be supported. | | 3 | White | 10/20/2019 | | |
| R White | D-120-11E | Detail to be added at 90% | | 3 | | | | |
| TAKEMOTOMW | D-120-11E | Is the intent to leave the Pie structure open, i.e. no grating on top? If so should this be removable railing for maintenance access? | | 3 | White | 10/20/2019 | | |
| R White | D-120-11E | Intent is to leave the top of the pie structure open. Will coordinate removable handrail. | | 3 | | | | |
| dbpeters | D-120-11E | We don't want to create the same environment that caused Milpitas Structure corressior | | 3 | White | 10/20/2019 | | |
| R White | D-120-11E | Will extend piping to below water surface and keep top open. | | 3 | | | | |
| TAKEMOTOMW | D-120-11E | Confirm pumping to this elevation does not impact the Milpitas FM operation. | | 3 | White | 10/20/2019 | | |
| R White | D-120-11E | Will do. | | 3 | | | | |
| DG | D-120-11E | Can we reroute the pipes coming into the NE structure to the main portion of the structure instead of to the Pie Structure? Jacobs to discuss with the City to seek alternate solutions for this reroute, if feasible. | | 3 | White | 10/20/2019 | | |
| R White | D-120-11E | This reroute also provides a bypass when completing work at the Milpitas Structure. | | 3 | | | | |
| TAKEMOTOMW | D-120-11E | Water level in Pie structure is EL 4 to 6. Suggest having the discharge pipe extend below the water surface. Same comment for Milpitas FM line. | | 3 | White | 10/20/2019 | | |
| R White | D-120-11E | Will do. | | 3 | | | | |
| TAKEMOTOMW | D-120-11E | Confirm saddle footing location shown versus existing grade. | | 3 | White | 10/20/2019 | | |
| R White | D-120-11E | Will verify. | | 3 | | | | |
| TAKEMOTOMW | D-120-12HW2 | Details for buried valve. | | 3 | White | 10/20/2019 | | |
| R White | D-120-12HW2 | Will add detail at 90% if kept in design. | | 3 | | | | |
| TAKEMOTOMW | D-120-12HW2 | How will new pipe connect to existing? | | 3 | White | 10/20/2019 | | |
| R White | D-120-12HW2 | Will add detail at 90% if kept in design. | | 3 | | | | |
| TAKEMOTOMW | D-120-14HW3GB | For FA, this will be an area with high H2S emissions, but appear to be a stagnant area in terms of air flow. No FA or intake are connections. | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | D-120-14HW3GB | Will review. If we provide access per other comment, a portion could be grating to allow air in. | | 3 | | | | |
| TAKEMOTOMW | D-120-14HW3GB | Flow is not well distributed in the influent channel. Given the large size of the channel flow velocities will be low. Its likely a significant amount of grit will deposit in the corner where there will be less turbulence from the pump discharge. Cleaning out this area will require shutting down HW3. | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | D-120-14HW3GB | Will be reviewing this area with CFD modeling. If required can add concrete fillets along Grid H, and perhaps additional fillet at Grids 4-5 | | 3 | | | | |
| TAKEMOTOMW | D-120-14HW3PS | Suggest sliding the stairs to the west to increase the clearance between the stairs and Gate 14GTE9650-05 | | 3 | Crook/Pieterick | 10/20/2019 | | |
| scrook | D-120-14HW3PS | Stairs will be moved west as much as possible without impacting other facility requirements. | | 3 | | | | |
| TAKEMOTOMW | D-120-14HW3PS | /RW | | 3 | Crook | 10/20/2019 | | |
| scrook | D-120-14HW3PS | Noted. | | 3 | | | | |
| TAKEMOTOMW | D-120-14HW3PS | Restrained? | | 3 | Crook | 10/20/2019 | | |
| scrook | D-120-14HW3PS | This is restrained, see 40 27 01 for the product identified for this use | | 3 | | | | |
| TAKEMOTOMW | D-120-14HW3PS | Are these openings for stop gates? If so are guides to be provided? These are openings for stop gates. Per 10/22 meeting these are supposed to be added to the scope of work. | | 3 | Crook | 12/6/2019 | | |
| scrook | D-120-14HW3PS | GMP Assumption: This item addressed in the QRF list. | | 3 | | | | |
| TAKEMOTOMW | D-120-14HW3PS | Not sure what this is? Seems to be in the main walkway. | | 3 | Crook | 10/20/2019 | | |
| scrook | D-120-14HW3PS | This is a stanchion for an electrical panel, which should be adjacent the handrail and not in the walkway. This will be corrected in 90% design. | | 3 | | | | |
| TAKEMOTOMW | D-120-14HW3PS | Suggest moving the label "Flushing..." from the top of page to here next to the related detail. | | 3 | Crook | 10/20/2019 | | |
| scrook | D-120-14HW3PS | Noted. | | 3 | | | | |
| TAKEMOTOMW | D-120-14HW3PS | Not clear why the FA connection on the wet well side is configured differently than the other, similar, connection on pumps 4 and 5. | | 3 | Crook/Cowden | 10/20/2019 | | |
| scrook | D-120-14HW3PS | The difference is in order to avoid a structural beam with the deck penetration | | 3 | | | | |
| MBritten | D-122-14HW3GB | Consider adding a baffle wall to dampen turbulence from 42" discharge pipes | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | D-122-14HW3GB | Will be reviewing this area for flow distribution and turbulence. Want some turbulence to keep grit moving towards grit basin. | | 3 | | | | |
| TAKEMOTOMW | D-301-1P | Pipe supports required along wall. | | 3 | White | 10/20/2019 | | |
| R White | D-301-1P | Will add. | | 3 | | | | |
| TAKEMOTOMW | D-301-1P | Has it been confirmed that this gate is in working order? | | 3 | White | 10/20/2019 | | |

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| R White | D-301-1P | See Facility Condition Assessment for evaluation. | | | 3 | | | | |
| TAKEMOTOMW | D-301-1P | Top of wall elevation? | | | 3 | White | 10/20/2019 | | |
| R White | D-301-1P | Will add. | | | 3 | | | | |
| TAKEMOTOMW | D-301-1P | Ground elevation? | | | 3 | White | 10/20/2019 | | |
| R White | D-301-1P | Will add. | | | 3 | | | | |
| TAKEMOTOMW | D-301-1P | Additional details are needed on the existing wall thimble/or penetration at this location to confirm how the new 96" RS line will be connected. | | | 3 | White | 10/20/2019 | | |
| R White | D-301-1P | Will add at 90% | | | 3 | | | | |
| TAKEMOTOMW | D-301-1P | Details or material requirements for Stand Box? | | | 3 | White | 10/20/2019 | | |
| R White | D-301-1P | Will add. | | | 3 | | | | |
| TAKEMOTOMW | D-301-14A | Detail for wall penetration? | | | 3 | Scoggins | 10/20/2019 | | |
| Iscoggin | D-301-14A | Will add | | | 3 | | | | |
| TAKEMOTOMW | D-301-14A | Confusing to show the actuator, but not the gate below. | | | 3 | White | 10/20/2019 | | |
| R White | D-301-14A | Will clarify. | | | 3 | | | | |
| TAKEMOTOMW | D-301-14A | Connection detail? | | | 3 | White | 10/20/2019 | | |
| R White | D-301-14A | Will add at 90%. | | | 3 | | | | |
| TAKEMOTOMW | D-301-14A | Connection? | | | 3 | White | 10/20/2019 | | |
| R White | D-301-14A | Will note connection. | | | 3 | | | | |
| TAKEMOTOMW | D-301-14A | 12" SP on plan view. | | | 3 | White | 10/20/2019 | | |
| R White | D-301-14A | Will correct. | | | 3 | | | | |
| TAKEMOTOMW | D-301-14A | Centerline? | | | 3 | White | 10/20/2019 | | |
| R White | D-301-14A | Will add. | | | 3 | | | | |
| TAKEMOTOMW | D-301-14A | As drawn, the pipe segment has a MJ end and a flanged end, which will require a larger core drill through the wall. | | | 3 | White | 10/20/2019 | | |
| R White | D-301-14A | Noted - this piping will be modified to discharge below the water surface, eliminating this issue. | | | 3 | | | | |
| TAKEMOTOMW | D-301-14A | Pipe invert/centerline elevations? | | | 3 | White | 10/20/2019 | | |
| R White | D-301-14A | Will add at 90% | | | 3 | | | | |
| TAKEMOTOMW | D-301-14A | Pipe support details are needed, typ. | | | 3 | White | 10/20/2019 | | |
| R White | D-301-14A | Will add at 90% | | | 3 | | | | |
| MBritten | D-301-14HW3GB | Should be anchored, not just a friction connector | | | 3 | Crook | 10/20/2019 | | |
| scrook | D-301-14HW3GB | If an embedded (with thrust ring) pipe is adjacent to this pipe support as shown in the current design, then a pipe saddle with strap (as depicted) is an appropriate pipe support. No change is needed from the existing design. | | | 3 | | | | |
| TAKEMOTOMW | D-301-14HW3GB | Invert of gate/top of floor is EL 14. Gate is listed as 72" tall = EL 20. Hydraulic profile shows WS EL up to EL 23.44. Gate is too short. TYP 6. | | | 3 | Youker | 12/6/2019 | | |
| | | Agree will make gate taller. Note that maximum hydraulic gradeline when treating 260 mgd, and all grit basins in service. So isolate gates will not be in down position. Will coordinate overall height of gate. | | | | | | | |
| Bryan Youker | D-301-14HW3GB | GMP Assumption: Include additional gate height, 6 gates at 3.5' increase in height. | | | 3 | | | | \$ 63,000 |
| TAKEMOTOMW | D-301-14HW3GB | /RW | | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | D-301-14HW3GB | Will coordinate final flow stream. | | | 3 | | | | |
| TAKEMOTOMW | D-301-14HW3GB | No pipe supports are shown on this sheet. | | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | D-301-14HW3GB | Pipe support design will be part of next phase of design. | | | 3 | | | | |
| TAKEMOTOMW | D-301-14HW3GB | The bottom cone area is filled with grout. | | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | D-301-14HW3GB | Yes. Structural drawings include shaping. | | | 3 | | | | |
| MBritten | D-301-14HW3GB | Consider inserting a sleeve to allow removal in the future w/o breaking the concrete. Highly corrosive above the water line and with turbulence- check that materials spec are appropriate. Needs bomb-proof coating on concrete. | | | 3 | Crook | 12/6/2019 | | |
| | | Agree that a robust coating is required in headspace- see structural drawings for coating directions on concrete; 09 90 00 and pipe schedule for directions on pipe. Use of a sleeve will be considered and weighted against pipe support considerations. No removal of pipe is expected in facility life- please direct if this is a project requirement. | | | | | | | |
| scrook | D-301-14HW3GB | GMP Assumption: Include sleeve around pipe, seal with caulk. Assume coatings are correct. | | | 3 | | | | \$ 12,500 |
| TAKEMOTOMW | D-301-14HW3IS | /RW | | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | D-301-14HW3IS | Will coordinate final flowstreams callouts. | | | 3 | | | | |
| TAKEMOTOMW | D-301-14HW3IS | Label | | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | D-301-14HW3IS | Will review presentation. Pipe is called on on detail, which may be adequate. | | | 3 | | | | |
| TAKEMOTOMW | D-301-14HW3IS | Material change? | | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | D-301-14HW3IS | Yes. Should be standard detail callout . | | | 3 | | | | |
| TAKEMOTOMW | D-301-14HW3IS | Cleanout is not accessible due to overhang above. | | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | D-301-14HW3IS | Will review and try to improve access or location of clean out. | | | 3 | | | | |
| TAKEMOTOMW | D-301-14HW3IS | Can damper just be closed instead of using the BF? | | | 3 | Youker | 10/20/2019 | | |

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| Bryan Youker | D-301-14HW3IS | | Will review. Could also install BF and no damper. Then when duct is put to use, damper be added. | | 3 | | | | |
| TAKEMOTOMW | D-301-14HW3IS | | No supports for the sluice are shown on the drawings. | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | D-301-14HW3IS | | Correct. Supports will be shown in next phase. Supports may not be suppliers final layout. | | 3 | | | | |
| TAKEMOTOMW | D-301-14HW3IS | | Will 2" WTR3/RW line be supported by the sluice? Is so need to require that feature in the specs | | 3 | Youker | 10/20/2019 | | |
| | | | Intent was to route 2" WTR3 under sluice on same supports. Depending on sluice support spacing, may need additional supports. Will include description in spec. | | 3 | | | | |
| Bryan Youker | D-301-14HW3IS | | Label | | 3 | Youker | 10/20/2019 | | |
| TAKEMOTOMW | D-301-14HW3IS | | Will add pipe callout. | | 3 | | | | |
| MBritten | D-301-14HW3PS | | Add overflow channel? | | 3 | Crook | 10/20/2019 | | |
| scrook | D-301-14HW3PS | | Not required, see other responses. | | 3 | | | | |
| TAKEMOTOMW | D-301-14ODO | | Confirm labels for HDPE and Note 1 should not be switched. | | 3 | Cowden | 10/20/2019 | | |
| scowden | D-301-14ODO | | They should be switched. Will be incorporated. | | 3 | | | | |
| TAKEMOTOMW | D-301-14ODO | | As drawn you cannot see the details of the piping, etc. in this area. | | 3 | Cowden | 10/20/2019 | | |
| scowden | D-301-14ODO | | Isometric will be provided as part of 90% | | 3 | | | | |
| TAKEMOTOMW | D-301-14ODO | | As drawn you cannot see the details of the piping, etc. in this area. | | 3 | Cowden | 10/20/2019 | | |
| scowden | D-301-14ODO | | Isometric will be provided as part of 90% | | 3 | | | | |
| TAKEMOTOMW | D-301-14ODO | | Label | | 3 | Cowden | 10/20/2019 | | |
| scowden | D-301-14ODO | | Concur | | 3 | | | | |
| TAKEMOTOMW | D-301-14ODO | | /RW | | 3 | Cowden | 10/20/2019 | | |
| scowden | D-301-14ODO | | Concur | | 3 | | | | |
| | | | Water level and ranges in the tower. As drawing there is a very limited depth at the bottom before water will start entering the FA ducting from the blower. Is there a passive overflow to prevent that from happening? | | 3 | Cowden | 10/20/2019 | | |
| TAKEMOTOMW | D-301-14ODO | | Yes...a passive overflow will be provided. | | 3 | | | | |
| scowden | D-301-14ODO | | Pipes under slab should be encased. | | 3 | Cowden | 10/20/2019 | | |
| TAKEMOTOMW | D-301-14ODO | | Concur | | 3 | | | | |
| scowden | D-301-14ODO | | Where will we be required to take samples to show compliance? Can we devise a method to take air sample at the bottom of the stack rather than at the top? | | 3 | Cowden | 10/20/2019 | | |
| DG | D-301-14ODO | | Air samples can be taken at ground level via the extended sample tube line. However, for regulatory air flow testing measurements must be taken directly at the stack. | | 3 | | | | |
| scowden | D-301-14ODO | | | | 3 | | | | |
| TAKEMOTOMW | D-302-14HW3GB | | | | 3 | Youker | 10/20/2019 | | |
| kmaestri | D-302-14HW3GB | | no response needed | | 3 | | | | |
| | | | Suggest revising so that 12" FA connections do not come from the bottom of the FA line. They may accumulate water and are a dead end in the current configuration, which will require they be periodically drained. | | 3 | Youker | 10/20/2019 | | |
| TAKEMOTOMW | D-302-14HW3GB | | Will review and correct as necessary. | | 3 | | | | |
| Bryan Youker | D-302-14HW3GB | | What pipe material is being shown for the GR/OF? SS? Need to add some joints for disassembly. | | 3 | Youker | 10/20/2019 | | |
| TAKEMOTOMW | D-302-14HW3GB | | Will revise pipe material and/or coordinate with pipe schedule. | | 3 | | | | |
| Bryan Youker | D-302-14HW3GB | | Suggest routing the 4" WTR3 from the 12" WTR3/RW to the west. Otherwise suggest routing above grade instead of buried. | | 3 | Youker | 10/20/2019 | | |
| TAKEMOTOMW | D-302-14HW3GB | | Will review routing. Wanted an isolation valve for the whole facility. | | 3 | | | | |
| Bryan Youker | D-302-14HW3GB | | Add elevation. | | 3 | Youker | 10/20/2019 | | |
| TAKEMOTOMW | D-302-14HW3GB | | Will add. Also considering deleting this section and providing a more useful one. | | 3 | | | | |
| TAKEMOTOMW | D-302-14HW3GB | | Orient FET toward the handrail for access. | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | D-302-14HW3GB | | Agree. Will revise model. | | 3 | | | | |
| TAKEMOTOMW | D-302-14HW3GB | | Add elevation. | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | D-302-14HW3GB | | Will add. Also considering deleting this section and providing a more useful one. | | 3 | | | | |
| TAKEMOTOMW | D-302-14HW3IS | | There should be a flexible closure piece connecting the discharge chute to the sluice. | | 3 | Youker | 10/20/2019 | | |
| | | | Will review with Huber. They currently show a flared rectangular section on sluice and a feed into into with a small air gap around the screen discharge chute. | | 3 | | | | |
| Bryan Youker | D-302-14HW3IS | | Callout invert elevations. | | 3 | Youker | 10/20/2019 | | |
| TAKEMOTOMW | D-302-14HW3IS | | Will add during next phase of Design. | | 3 | | | | |
| Bryan Youker | D-302-14HW3IS | | Gate height is listed as 168" = 14 feet = top of gate at EL 6.00. This is above the normal HGL, however, the weir at EBOS can be set as high as EL. 10.21, which would overflow this gate. Confirm gate height is appropriate for anticipated hydraulic conditions. | | 3 | Youker | 12/6/2019 | | |
| TAKEMOTOMW | D-302-14HW3IS | | Normal high level is EL 4.00. As currently configured, if the level were to exceed EL 6.00, it is due to equipment problem. In that case water could overflow top of gate into the out-of-service screen channel and flow to RSPS 3, before reaching high level.. If disagree with approach we can make make gates taller. Comment: Gate sized for full 20' of channel depth is better served by butterfly gate. Increasing height of gate, or using butterfly gate will add cost. Provide direction. | | 3 | | | | |
| | | | | | 3 | | | | |
| Bryan Youker | D-302-14HW3IS | | GMP Assumption: Assume no scope change. | | 3 | | | | \$ - |
| TAKEMOTOMW | D-401-14HW3PS | | Need to provide height/depth required for p-trap. | | 3 | Crook | 10/20/2019 | | |
| scrook | D-401-14HW3PS | | Will be included in detailed design. | | 3 | | | | |

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| MBritten | D-401-14HW3PS | Are bolts accessible for pump removal? | | 3 | Crook | 10/20/2019 | | |
| scrook | D-401-14HW3PS | Soleplate/baseplate bolts will be accessible and exposed underneath the equipment platform. | | 3 | | | | |
| TAKEMOTOMW | D-501-14HW3GB | More labels are needed. | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | D-501-14HW3GB | Will review final presentation for constructability. Most components shown in details or sections. So additional annotation would be piping callouts. | | 3 | | | | |
| TAKEMOTOMW | D-501-14HW3GB | Seems simpler to just connect each water line to the main 4" WTR line rather than teeing and then splitting between two grit pumps. | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | D-501-14HW3GB | Will review. What's not shown in this isometric is the branch piping which feeds hose valves. Those branches are located between the drops to the seal water and fluidizing connection. | | 3 | | | | |
| TAKEMOTOMW | D-501-14HW3GB | Sump pumps are shown but no discharge piping. | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | D-501-14HW3GB | Yes. Not all piping shown. Will see if additional pipe shows clear enough to display. | | 3 | | | | |
| TAKEMOTOMW | D-501-14HW3GB | Does the water line need to split into 2 branches here? Can one main line feed all 6 grit units? | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | D-501-14HW3GB | Will review. There are deep beams in the area, and the split is along each side of a deep beam. May move the two headers feeding 3 washers closer to where the pipe turns up to the grit washer. | | 3 | | | | |
| TAKEMOTOMW | D-501-14HW3IS | Not sure what these tabs are. | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | D-501-14HW3IS | Modeling feature that should have been turned off. Will turn off next phase. | | 3 | | | | |
| DG | D-501-14ODO | | | 3 | Cowden | 10/20/2019 | | |
| kmaestri | D-501-14ODO | no response needed | | 3 | | | | |
| TAKEMOTOMW | D-501-14ODO | This line connects down stream of the screens. The hydraulic profile indicate water level will be up to EL 2.53. Top of concrete is EL 13. Its possible the level could rise well above 2.53 especially during shut down or startup. This will cause raw sewage to be pulled into the drain manhole. Suggest looking at mitigation options or alternate configurations. | | 3 | Cowden | 10/20/2019 | | |
| scowden | D-501-14ODO | Will look at max liquid level and if necessary can provide a duck-bill check valve to protect the condensate manhole. | | 3 | | | | |
| TAKEMOTOMW | D-501-14ODO | Confirm manhole can withstand H-20 traffic loadings. | | 3 | Cowden | 10/20/2019 | | |
| scowden | D-501-14ODO | Where located in an area requiring H-20 loading, a separate vault cover will be required. Detail to be modified accordingly. | | 3 | | | | |
| BSS | E-101-08 | These existing Electrical ductbanks are to be demolished / re-aligned for laying the 96" RS pipeline from HW3 (N) to California Building. No proposal for installing new ductbanks and re-routing these existing power, and electrical conductors along the 'C-Street' between EMH-1, EMH-2, MH53(P), MH54(P), MH55(P) has been developed | | 3 | Michaud | 10/20/2019 | | |
| ttom | E-101-08 | There is a cost contingency in place for the possible reroute of these. Still coordinate with civil on routing options and support options for the duct banks during pipeline installation. | | 3 | | | | |
| BSS | E-103-08 | These existing electrical ductbanks are to be demolished / re-aligned for laying 96" RS pipeline from HW3(N) to California Building. No proposal is given for installing new ductbanks or for re-routing these existing power and electrical cables between MH 52(P), MH53(P), MH52(L), MH52(L), MH57(P), MH58(P) | | 3 | Michaud | 10/20/2019 | | |
| ttom | E-103-08 | Based on photos and video of the manholes these particular duct banks are not in conflict with the 96" pipe in this area. | | 3 | | | | |
| BSS | E-104-08 | Add: IN NEW CONCRETE ENCASED(CE) CONDUITS | | 3 | Michaud | 10/20/2019 | | |
| ttom | E-104-08 | Will do. | | 3 | | | | |
| BSS | E-601-08 | 52-203B | | 3 | Michaud | 10/20/2019 | | |
| ttom | E-601-08 | Will change | | 3 | | | | |
| BSS | E-601-08 | 52-205B is already in use for M5- M4 link feeder | | 3 | Michaud | 10/20/2019 | | |
| ttom | E-601-08 | Will change | | 3 | | | | |
| BSS | E-601-12HW2 | SWGR "M5" | | 3 | Michaud | 10/20/2019 | | |
| ttom | E-601-12HW2 | Will look into, this is an existing drawing that was not recreated and may require creativity to be able to edit the background. | | 3 | | | | |
| nelsopeironi | E-601-14BLDG64 | FOR THE CLOSED TRANSITION (HOT SWAP), ADD THE SYNC CHECK RELAYS (BE1-25) TO BOTH MAINS AND TIE BREAKERS REFER TO 30% COMMENTS HOT TRANSFER ATTACHMENT SHEET 1 | | 3 | Michaud | 10/20/2019 | | |
| ttom | E-601-14BLDG64 | Will include | | 3 | | | | |
| nelsopeironi | E-601-14BLDG64 | ALL BUS DIFFERENTIAL CTs SHOULD HAVE THE SAME CT RATIO. USE THE LARGEST CT RATION OF 1200:5. | | 3 | Michaud | 10/20/2019 | | |
| ttom | E-601-14BLDG64 | Will change | | 3 | | | | |
| nelsopeironi | E-601-14BLDG64 | WHERE IS THE 4.16KV-277/480V TRANSFORMER?? | | 3 | Michaud | 10/20/2019 | | |
| ttom | E-601-14BLDG64 | See the overall oneline. | | 3 | | | | |
| nelsopeironi | E-601-14BLDG64 | MMF PROTECTIVE RELAY IS NOT REQUIRED FOR THE MAIN BREAKERS. USE A BE1-851 OVRCURRENT RELAY. THE RELAY DOES NOT REQUIRED A VOLTAGE INPUT.. (TYP OF TWO) | | 3 | Michaud | 10/20/2019 | | |
| ttom | E-601-14BLDG64 | Will change | | 3 | | | | |
| nelsopeironi | E-601-14BLDG64 | FOR THE SPARE BREAKERS INCREASE CT RATIO TO 600:5 | | 3 | Michaud | 10/20/2019 | | |
| ttom | E-601-14BLDG64 | Will change | | 3 | | | | |
| nelsopeironi | E-601-14BLDG64 | FOR THE TRANSFORMER BREAKERS INCREASE CT RATIO TO 300:5 | | 3 | Michaud | 10/20/2019 | | |
| ttom | E-601-14BLDG64 | Can do. | | 3 | | | | |
| BSS | E-602-08 | Location of MCC D not specified. It should be mentioned as LOCATED IN WEST PRIMARY | | 3 | Michaud | 10/20/2019 | | |

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| ttom | E-602-08 | Will add a note to reference which drawing to go to for MCC location | | 3 | | | | | |
| nelsopetroni | E-603-14BLDG64 | ADD PLUG/RECEPTACLE TO THE LOAD SIDE OF UPS. | | 3 | Michaud | 10/20/2019 | | | |
| ttom | E-603-14BLDG64 | Will add | | 3 | | | | | |
| nelsopetroni | E-605-14BLDG64 | CHANGE TO "DEAD BUS" | | 3 | Michaud | 10/20/2019 | | | |
| ttom | E-605-14BLDG64 | Will change | | 3 | | | | | |
| nelsopetroni | E-605-14BLDG64 | RELAY PERMISSIVE CONTACT IS NOT REQUIRED | | 3 | Michaud | 10/20/2019 | | | |
| ttom | E-605-14BLDG64 | Will modify | | 3 | | | | | |
| nelsopetroni | E-605-14BLDG64 | CHANGED TO "HOT SWAP" | | 3 | Michaud | 10/20/2019 | | | |
| ttom | E-605-14BLDG64 | Will change | | 3 | | | | | |
| nelsopetroni | E-605-14BLDG64 | CHANGE TO "HOT SWAP" | | 3 | Michaud | 10/20/2019 | | | |
| ttom | E-605-14BLDG64 | Will change | | 3 | | | | | |
| nelsopetroni | E-605-14BLDG64 | CHANGE TO "HOT SWAP" | | 3 | Michaud | 10/20/2019 | | | |
| ttom | E-605-14BLDG64 | Will change | | 3 | | | | | |
| nelsopetroni | E-605-14BLDG64 | CHANGE TO "HOT SWAP" | | 3 | Michaud | 10/20/2019 | | | |
| ttom | E-605-14BLDG64 | Will change | | 3 | | | | | |
| nelsopetroni | E-605-14BLDG64 | SINCE RELAYS TRIP THE 86 (LOCKOUT), THE PROTECTIVE RELAY PERMISSIVE TO CLOSE IS NOT REQUIRED. TYPICAL OF ALL RELAYS | | 3 | Michaud | 10/20/2019 | | | |
| ttom | E-605-14BLDG64 | Will modify | | 3 | | | | | |
| nelsopetroni | E-605-14BLDG64 | CHANGE TO "DEAD BUS" | | 3 | Michaud | 10/20/2019 | | | |
| ttom | E-605-14BLDG64 | Will change | | 3 | | | | | |
| nelsopetroni | E-606-12HW2 | | | 3 | Michaud | 10/20/2019 | | | |
| ttom | E-606-12HW2 | This is an image pulled from an existing record drawing, will work with CAD to see if we can modify it. | | 3 | | | | | |
| nelsopetroni | E-606-14BLDG64 | | | 3 | Michaud | 10/20/2019 | | | |
| ttom | E-606-14BLDG64 | No comment needed | | 3 | | | | | |
| nelsopetroni | E-606-14BLDG64 | CHANGE TO "HOT SWAP" | | 3 | Michaud | 10/20/2019 | | | |
| ttom | E-606-14BLDG64 | Will change | | 3 | | | | | |
| nelsopetroni | E-606-14BLDG64 | CHANGE TO "HOT SWAP" | | 3 | Michaud | 10/20/2019 | | | |
| ttom | E-606-14BLDG64 | Will change | | 3 | | | | | |
| nelsopetroni | E-606-14BLDG64 | CHANGE TO "HOT SWAP" | | 3 | Michaud | 10/20/2019 | | | |
| ttom | E-606-14BLDG64 | Will change | | 3 | | | | | |
| nelsopetroni | E-606-14BLDG64 | CHANGE TO "DEAD BUS" | | 3 | Michaud | 10/20/2019 | | | |
| ttom | E-606-14BLDG64 | Will change | | 3 | | | | | |
| nelsopetroni | E-606-14BLDG64 | CHANGE TO "DEAD BUS" | | 3 | Michaud | 10/20/2019 | | | |
| ttom | E-606-14BLDG64 | Will change | | 3 | | | | | |
| nelsopetroni | E-607-14BLDG64 | RELAY PERMISSIVE CONTACT IS NOT REQUIRED. | | 3 | Michaud | 10/20/2019 | | | |
| ttom | E-607-14BLDG64 | Will modify | | 3 | | | | | |
| nelsopetroni | E-608-14BLDG64 | | | 3 | Michaud | 10/20/2019 | | | |
| ttom | E-608-14BLDG64 | no comment | | 3 | | | | | |
| nelsopetroni | E-608-14BLDG64 | | | 3 | Michaud | 10/20/2019 | | | |
| ttom | E-608-14BLDG64 | Will modify | | 3 | | | | | |
| nelsopetroni | E-608-14BLDG64 | | | 3 | Michaud | 10/20/2019 | | | |
| ttom | E-608-14BLDG64 | no comment | | 3 | | | | | |
| nelsopetroni | E-608-14BLDG64 | CHANGE TO RS485 | | 3 | Michaud | 10/20/2019 | | | |
| ttom | E-608-14BLDG64 | will change | | 3 | | | | | |
| nelsopetroni | E-608-14BLDG64 | CHANGE TO ETHERNET PORT | | 3 | | 10/20/2019 | | | |
| kmaestri | E-608-14BLDG64 | okay | | 3 | | | | | |
| nelsopetroni | E-608-14BLDG64 | CHANGE TO ETHERNET PORT | | 3 | Michaud | 10/20/2019 | | | |
| ttom | E-608-14BLDG64 | Will coordinate with product data. | | 3 | | | | | |
| nelsopetroni | E-609-14BLDG64 | | | 3 | Michaud | 10/20/2019 | | | |
| ttom | E-609-14BLDG64 | no comment | | 3 | | | | | |
| nelsopetroni | E-609-14BLDG64 | | | 3 | Michaud | 10/20/2019 | | | |
| ttom | E-609-14BLDG64 | no comment | | 3 | | | | | |
| nelsopetroni | E-609-14BLDG64 | BE1-851 DOES NOT HAVE AN ETHERNET PORT. ONLY RS485 | | 3 | Michaud | 10/20/2019 | | | |
| ttom | E-609-14BLDG64 | Will coordinate with product data | | 3 | | | | | |
| nelsopetroni | E-609-14BLDG64 | CHANGE TO ETHERNET PORT | | 3 | Michaud | 10/20/2019 | | | |
| ttom | E-609-14BLDG64 | Will coordinate with product data | | 3 | | | | | |
| nelsopetroni | E-609-14BLDG64 | BE1-851 | | 3 | Michaud | 10/20/2019 | | | |
| ttom | E-609-14BLDG64 | Will change | | 3 | | | | | |
| nelsopetroni | E-609-14BLDG64 | DELETE PERMISSIVE. CHANGE TO SPARE OUTPUT | | 3 | Michaud | 10/20/2019 | | | |
| ttom | E-609-14BLDG64 | Will modify | | 3 | | | | | |
| nelsopetroni | E-610-14BLDG64 | | | 3 | Michaud | 10/20/2019 | | | |
| ttom | E-610-14BLDG64 | no comment | | 3 | | | | | |
| nelsopetroni | E-610-14BLDG64 | | | 3 | Michaud | 10/20/2019 | | | |
| ttom | E-610-14BLDG64 | no comment | | 3 | | | | | |

| Author (in gray rows) Responder (in white rows) | | | | | | | | | Direct Costs (Appropriate markups addressed in the Cost Model by company) |
|--|-----------------|--|---------------------------|-----------|----------|--------------------|---------------|-------------|--|
| | Page Label | Comments (in gray rows) | Responses (in white rows) | Commenter | Category | Assigned Responder | Date Answered | Backchecked | |
| nelsopetroni | E-610-14BLDG64 | | | | 3 | Michaud | 10/20/2019 | | |
| ttom | E-610-14BLDG64 | no comment | | | 3 | | | | |
| nelsopetroni | E-610-14BLDG64 | DELETE PERMISSIVE. CHANGE TO SPARE OUTPUT | | | 3 | Michaud | 10/20/2019 | | |
| ttom | E-610-14BLDG64 | Will modify | | | 3 | | | | |
| nelsopetroni | E-610-14BLDG64 | BE1-11T | | | 3 | Michaud | 10/20/2019 | | |
| ttom | E-610-14BLDG64 | Will edit | | | 3 | | | | |
| nelsopetroni | E-611-14BLDG64 | | | | 3 | Michaud | 10/20/2019 | | |
| ttom | E-611-14BLDG64 | no comment | | | 3 | | | | |
| nelsopetroni | E-611-14BLDG64 | | | | 3 | Michaud | 10/20/2019 | | |
| ttom | E-611-14BLDG64 | no comment | | | 3 | | | | |
| nelsopetroni | E-611-14BLDG64 | OUT2 | | | 3 | Michaud | 10/20/2019 | | |
| ttom | E-611-14BLDG64 | Will change | | | 3 | | | | |
| nelsopetroni | E-611-14BLDG64 | OUT4 | | | 3 | Michaud | 10/20/2019 | | |
| ttom | E-611-14BLDG64 | Will change | | | 3 | | | | |
| nelsopetroni | E-611-14BLDG64 | OUT5 | | | 3 | Michaud | 10/20/2019 | | |
| ttom | E-611-14BLDG64 | Will change | | | 3 | | | | |
| nelsopetroni | E-611-14BLDG64 | THERE ARE TWO CT TEST SW FOR 52-104E | | | 3 | Michaud | 10/20/2019 | | |
| ttom | E-611-14BLDG64 | Will coordinate | | | 3 | | | | |
| nelsopetroni | E-611-14BLDG64 | OUT3 | | | 3 | Michaud | 10/20/2019 | | |
| ttom | E-611-14BLDG64 | Will change | | | 3 | | | | |
| nelsopetroni | E-611-14BLDG64 | SELS87Z DOES NOT HAVE AN ETHERNET PORT. ONLY RS485 | | | 3 | Michaud | 10/20/2019 | | |
| ttom | E-611-14BLDG64 | Will coordinate with product data | | | 3 | | | | |
| nelsopetroni | E-611-14BLDG64 | 86-BA OR 86-BI | | | 3 | Michaud | 10/20/2019 | | |
| ttom | E-611-14BLDG64 | Will coordinate | | | 3 | | | | |
| | | It appears that the purpose of "R" is to confirm that motor has achieved the proper current before TMR times out. Why do you alarm rather than trip the M coil? Does the DCU open the signal to CR1? | | | 3 | Michaud | 10/20/2019 | | |
| nelsopetroni | E-707-08 | | | | 3 | Michaud | 10/20/2019 | | |
| ttom | E-707-08 | It is a current sensor to alarm to SCADA when the fan is off and an area is no longer declassified. Do not want to trip. Will coordinate controls with I&C and HVAC to be clearer. | | | 3 | | | | |
| | | WHEN THE TDR TIMES OUT , THE "M" SHOULD BE DE-ENERGIZED. THE TDR CONTACT SHOULD ALARM TO DCU | | | 3 | Michaud | 10/20/2019 | | |
| nelsopetroni | E-708-08 | Will correct | | | 3 | | | | |
| nelsopetroni | E-708-08 | ESTOP FROM DCU SHOULD BE NORMALLY CLOSED | | | 3 | Michaud | 10/20/2019 | | |
| ttom | E-708-08 | Will correct | | | 3 | | | | |
| nelsopetroni | E-708-08 | | | | 3 | | 10/20/2019 | | |
| kmaestri | E-708-08 | no comment | | | 3 | | | | |
| nelsopetroni | E-708-08 | CR9?? | | | 3 | Michaud | 10/20/2019 | | |
| ttom | E-708-08 | Will correct | | | 3 | | | | |
| nelsopetroni | EF-102-14BLDG64 | ADD EXIT SIGN | | | 3 | Michaud | 10/20/2019 | | |
| ttom | EF-102-14BLDG64 | Not required by code but can add. | | | 3 | | | | |
| nelsopetroni | EF-112-14BLDG64 | ADD EXIT SIGN | | | 3 | Michaud | 10/20/2019 | | |
| ttom | EF-112-14BLDG64 | This is an open walkway and the exits signs are located in the control room and electrical room for egress. | | | 3 | | | | |
| DG | EP-111-14HW3IS | Indicate drawinf | | | 3 | Michaud | 10/20/2019 | | |
| ttom | EP-111-14HW3IS | Will discuss with management on the CAD standard for this. | | | 3 | | | | |
| | | Why are these control stations (?) different than the ones on the other gates? View on plan for Area B is different than what is shown on this sheet. | | | 3 | Michaud | 10/20/2019 | | |
| TAKEMOTOMW | EP-120-14HW3GB | | | | 3 | | | | |
| ttom | EP-120-14HW3GB | Will double check the model for accuracy. | | | 3 | | | | |
| | | Confirm intent is to have control stations next to each gate. For the RSPS, the gate control station are all co-located on the handrail nearby. | | | 3 | Michaud | 10/20/2019 | | |
| TAKEMOTOMW | EP-120-14HW3GB | | | | 3 | | | | |
| ttom | EP-120-14HW3GB | Intent is to have them near the gates where possible. It wasn't possible to mount the disconnects and such near the gates at RSPS due to access issues. | | | 3 | | | | |
| | | Keynote: Is there a detail that can show acceptable methods to run these conduits and cables "overhead"? | | | 3 | Michaud | 10/20/2019 | | |
| nelsopetroni | ET-100-08 | | | | 3 | | | | |
| ttom | ET-100-08 | This is for temporary construction and at the contractors discretion unless there is a particular request from the City. | | | 3 | | | | |
| DG | G-002-01 | Where are grading plans 1,2 and 4? | | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | G-002-01 | Grading plans 1, 2, and 4 are not used. | | | 3 | | | | |
| DG | G-004-01 | Move General Notes to the top right, follow City CAD format (TYP) | | | 3 | Williamson | 10/20/2019 | | |
| KandiMaestri | G-004-01 | ok | | | 3 | | | | |
| DG | G-005-01 | (CONTD.) | | | 3 | Williamson | 10/20/2019 | | |
| KandiMaestri | G-005-01 | ok | | | 3 | | | | |
| DG | G-010-01 | Align all text | | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | G-010-01 | Will do | | | 3 | | | | |
| DG | G-010-01 | "...or as required to maintain site security" | | | 3 | Chandler | 10/20/2019 | | |

| Author (in gray rows) Responder (in white rows) | | | | | | | | | | Direct Costs (Appropriate markups addressed in the Cost Model by company) |
|--|------------|--|-----------|----------|--------------------|---------------|-------------|--|--|--|
| Author (in gray rows) Responder (in white rows) | Page Label | Comments (in gray rows) Responses (in white rows) | Commenter | Category | Assigned Responder | Date Answered | Backchecked | | | |
| Sam Chandler | G-010-01 | Will do | | 3 | | | | | | |
| DG | G-010-01 | Remove General Disclaimer, or move to upper right | | 3 | Chandler | 10/20/2019 | | | | |
| Sam Chandler | G-010-01 | Will move to upper right | | 3 | | | | | | |
| TAKEMOTOMW | G-010-01 | Complete callout boxes and adjust location within text. | | 3 | Chandler | 10/20/2019 | | | | |
| Sam Chandler | G-010-01 | Agree | | 3 | | | | | | |
| DG | G-010-01 | No additional survey. Refer to the Subsurface Assessment, and state that all information obtained in the 2019 subsurface assessment will be incorporated into the design. | | 3 | Chandler | 10/20/2019 | | | | |
| Sam Chandler | G-010-01 | Will do. | | 3 | | | | | | |
| DG | G-010-01 | This does not adhere to CIP standards, modify. | | 3 | Chandler | 10/20/2019 | | | | |
| kmaestri | G-010-01 | will review | | 3 | | | | | | |
| DG | G-010-01 | change to "DESIGN BUILDER" - Make universal change. These drawings establish contract terms between the City and the DB - not the DB and the Subcontractor. As far as the City is concerned, this is the DBs responsibility. | | 3 | Chandler | 10/20/2019 | | | | |
| Sam Chandler | G-010-01 | Will do, once verified with project contract language. | | 3 | | | | | | |
| DG | G-010-01 | I thought GIS only provided approximate pipe location elevations, not topo. - change. | | 3 | Chandler | 10/20/2019 | | | | |
| Sam Chandler | G-010-01 | Will update to reflect that existing grade is based on City supplied grading information compiled for previous projects. | | 3 | | | | | | |
| DG | G-010-01 | What Subcontractor? Change to "Design-Builder" | | 3 | Chandler | 10/20/2019 | | | | |
| Sam Chandler | G-010-01 | Will do. | | 3 | | | | | | |
| TAKEMOTOMW | G-010-01 | Are there requirements for separation between potable/recycled water/wastewater pipelines? | | 3 | Chandler | 10/20/2019 | | | | |
| Sam Chandler | G-010-01 | Yes, piping designed to meet minimum separation requirements. | | 3 | | | | | | |
| DG | G-010-01 | add | | 3 | Chandler | 10/20/2019 | | | | |
| kmaestri | G-010-01 | will do | | 3 | | | | | | |
| DG | G-010-01 | incomplete (typ) | | 3 | Chandler | 10/20/2019 | | | | |
| kmaestri | G-010-01 | will complete | | 3 | | | | | | |
| DG | G-010-01 | add page number for reference | | 3 | Chandler | 10/20/2019 | | | | |
| kmaestri | G-010-01 | we use drawing numbers, not sheet numbers within the drawing set for cross referencing | | 3 | | | | | | |
| DG | G-010-01 | "DESIGN BUILDER's" | | 3 | Chandler | 10/20/2019 | | | | |
| Sam Chandler | G-010-01 | Will do, once verified with project contract language. | | 3 | | | | | | |
| DG | G-010-01 | Are all existing pipes shown as single line? | | 3 | Chandler | 10/20/2019 | | | | |
| Sam Chandler | G-010-01 | No, will update to reflect modeled pipes displayed as double line | | 3 | | | | | | |
| DG | G-021-01 | The height stated here does not match what is stated in the structural drawings. THE MAJORITY OF THE ROOF IS AT ELEV 26 AND GRADE IS AT 9.00 SO WE WILL ADJUST THE TO 17 FT TO BE CONSISTENT WITH STRUCTURAL AND CIVIL. | | 3 | Pieterick | 10/20/2019 | | | | |
| epieteri | G-021-01 | See comment on top left of page | | 3 | Pieterick | 10/20/2019 | | | | |
| DG | G-021-01 | Usually on projects with multiple buildings the code officials have asked that these code sheets be consolidated onto general sheets so they don't have to find all the buildings. If this is not what the code official wants this time we can break this sheet up by building. | | 3 | | | | | | |
| epieteri | G-021-01 | State if Not Required | | 3 | Pieterick | 10/20/2019 | | | | |
| DG | G-021-01 | WILL CHANGE NONE TO NOT REQUIRED | | 3 | | | | | | |
| epieteri | G-021-01 | This drawing should only contain the Architectural ABbr. and Legends. Move project specific code drawings and data to the Architectural Drawings. | | 3 | Pieterick | 10/20/2019 | | | | |
| DG | G-021-01 | This is a life safety drawing, not a legend. no change planned | | 3 | | | | | | |
| kmaestri | G-021-01 | Add note 3 stating that the Headworks Project adheres to the requirements stated in the City's Fire Life Safety Project | | 3 | Pieterick | 10/20/2019 | | | | |
| DG | G-021-01 | Note will be added. | | 3 | | | | | | |
| epieteri | G-021-01 | Move to top right of page (typ) | | 3 | Pieterick | 10/20/2019 | | | | |
| DG | G-021-01 | We will look into reorganizing the sheet to do this but it we feel as long as we keep the note together with the legend they will not be overlooked by contractor. | | 3 | | | | | | |
| epieteri | G-031-01 | Provide list of structural deferred submittals | | 3 | Scoggins | 10/20/2019 | | | | |
| DG | G-031-01 | List is above. Specific item list to be populated by design builder for submission | | 3 | | | | | | |
| Iscoffin | G-032-01 | What about Milpitas Structure Modifications? | | 3 | Scoggins | 10/20/2019 | | | | |
| DG | G-032-01 | Will review. Current scope is removal of damaged portion of structure which was added after initial construction of facility. This will effectively take it back to the original as-constructed condition. | | 3 | | | | | | |
| Iscoffin | G-040-01 | There will be a lot more notes for the mechanical drawings, suggest starting a separate sheet for Mechanical notes | | 3 | Youker | 10/20/2019 | | | | |
| DG | G-040-01 | There are notes on mechanical drawings that will be specific to the drawing they are on. These notes are standard notes which apply to all. | | 3 | | | | | | |
| Bryan Youker | G-040-01 | ? | | 3 | Youker | 10/20/2019 | | | | |
| DG | G-040-01 | Will review and delete if required. | | 3 | | | | | | |
| Bryan Youker | G-040-01 | Which sheet is a comprehensive list of equipment, equipment numbers/tags provided? | | 3 | Youker | 10/20/2019 | | | | |
| DG | G-040-01 | We do not include a drawing with comprehensive list of equipment names and numbers. | | 3 | | | | | | |
| Bryan Youker | G-051-01 | move to top right, typ | | 3 | Sackinger | 10/20/2019 | | | | |
| DG | G-051-01 | Will do. | | 3 | | | | | | |
| jsacking | G-051-01 | | | 3 | | | | | | |

| Author (in gray rows) Responder (in white rows) | | | | | | | | | Direct Costs (Appropriate markups addressed in the Cost Model by company) |
|--|------------|--|---------------------------|-----------|----------|--------------------|---------------|-------------|--|
| | Page Label | Comments (in gray rows) | Responses (in white rows) | Commenter | Category | Assigned Responder | Date Answered | Backchecked | |
| DG | G-052-01 | Move to HVAC abbr. page | | | 3 | Sackinger | 10/20/2019 | | |
| jsacking | G-052-01 | Will do. | | | 3 | | | | |
| DG | G-052-01 | There are minimum standards for SEER (13?), does this apply to heat pumps as well? | | | 3 | Sackinger | 10/20/2019 | | |
| jsacking | G-052-01 | 2019 Energy Code is 13 SEER and 7.7 HSPF. Scheduled is 16 SEER and 11.6 HSPF | | | 3 | | | | |
| dbpeters | G-052-01 | Moved to roof? | | | 3 | Sackinger | 10/20/2019 | | |
| jsacking | G-052-01 | Correct. Will revise. | | | 3 | | | | |
| DG | G-052-01 | sp. | | | 3 | Sackinger | 10/20/2019 | | |
| jsacking | G-052-01 | Correct. "Performance" | | | 3 | | | | |
| DG | G-052-01 | call out specificaton | | | 3 | Sackinger | 10/20/2019 | | |
| jsacking | G-052-01 | Will do | | | 3 | | | | |
| DG | G-055-01 | Follow City CAD standard layout. | | | 3 | Sackinger | 10/20/2019 | | |
| jsacking | G-055-01 | Will do. | | | 3 | | | | |
| DG | G-055-01 | change all "subcontractor" to "Design Builder" | | | 3 | Sackinger | 10/20/2019 | | |
| jsacking | G-055-01 | Will do. | | | 3 | | | | |
| DG | G-055-01 | Show actual piping schedule designation | | | 3 | Sackinger | 10/20/2019 | | |
| jsacking | G-055-01 | Will do | | | 3 | | | | |
| DG | G-055-01 | Move to top right. | | | 3 | Sackinger | 10/20/2019 | | |
| jsacking | G-055-01 | Will do. | | | 3 | | | | |
| DG | G-055-01 | Move to top | | | 3 | Sackinger | 10/20/2019 | | |
| jsacking | G-055-01 | Not sure what this means. Move schedule to top of page? Where does the other stuff go? | | | 3 | | | | |
| DG | G-060-01 | move to top right | | | 3 | Michaud | 10/20/2019 | | |
| ttom | G-060-01 | Will modify legend | | | 3 | | | | |
| TAKEMOTOMW | G-080-01 | | | | 3 | White | 10/20/2019 | | |
| R White | G-080-01 | Correct, will add. | | | 3 | | | | |
| dbpeters | G-080-01 | North MW | | | 3 | White | 10/20/2019 | | |
| R White | G-080-01 | Will change. | | | 3 | | | | |
| DG | G-080-01 | include all abbr. | | | 3 | White | 10/20/2019 | | |
| R White | G-080-01 | Will do. | | | 3 | | | | |
| TAKEMOTOMW | G-080-01 | Based on the flows presented in the Hydraulic Profile, it appears no flow is coming from this SWPS. Confirm flows. If there are flows, confirm hydraulic impacts. | | | 3 | White | 10/20/2019 | | |
| R White | G-080-01 | Flows are negligible. | | | 3 | | | | |
| dbpeters | G-080-01 | South MV | | | 3 | White | 10/20/2019 | | |
| R White | G-080-01 | Will change. | | | 3 | | | | |
| dbpeters | G-080-01 | Eliminate this jumper? | | | 3 | White | 10/20/2019 | | |
| R White | G-080-01 | Have evaluated that this connection is not necessary. Per meeting on 10/22 connection will be removed. | | | 3 | | | | |
| dbpeters | G-080-01 | What happens to 66"? | | | 3 | White | 10/20/2019 | | |
| R White | G-080-01 | 66" is diverted to the new Recycle Pump Station. | | | 3 | | | | |
| DG | G-080-01 | Suggest having a different line nomenclature for abandoned pipes | | | 3 | White | 10/20/2019 | | |
| R White | G-080-01 | Agreed, will do. | | | 3 | | | | |
| TAKEMOTOMW | G-080-01 | Based on the flows presented in the Hydraulic Profile, it appears no flow is coming from this SWPS. Confirm flows. If there are flows, confirm hydraulic impacts. | | | 3 | White | 10/20/2019 | | |
| R White | G-080-01 | Flows are negligible. | | | 3 | | | | |
| DG | G-080-01 | call out line size | | | 3 | White | 10/20/2019 | | |
| R White | G-080-01 | This line is 48", will modify for clarity. | | | 3 | | | | |
| TAKEMOTOMW | G-080-01 | Coordinate depiction with work shown on Y-112-07, e.g. no reducers being added | | | 3 | White | 10/20/2019 | | |
| R White | G-080-01 | Will coordinate. | | | 3 | | | | |
| TAKEMOTOMW | G-080-01 | Based on the flows presented in the Hydraulic Profile, its unclear if flows from Speckles are included or are negligible. Confirm flows. If there are flows, confirm hydraulic impacts. | | | 3 | White | 10/20/2019 | | |
| R White | G-080-01 | Flows are negligible. | | | 3 | | | | |
| DG | G-080-01 | call out abbr. | | | 3 | White | 10/20/2019 | | |
| R White | G-080-01 | Will add abbr. | | | 3 | | | | |
| DG | G-080-01 | show directional arrows (typ) | | | 3 | White | 10/20/2019 | | |
| R White | G-080-01 | Will add. | | | 3 | | | | |
| TAKEMOTOMW | G-080-01 | Suggest showing abandoned pipes for consistency with the rest of this sheet. | | | 3 | White | 10/20/2019 | | |
| R White | G-080-01 | Will show as abandoned. | | | 3 | | | | |
| TAKEMOTOMW | G-080-01 | Based on the flows presented in the Hydraulic Profile, it appears no flow is coming from the Coffin Structure. If there are flows, confirm hydraulic impacts. | | | 3 | White | 10/20/2019 | | |
| R White | G-080-01 | Flows are negligible. | | | 3 | | | | |
| DG | G-080-01 | what is being capped here? | | | 3 | White | 10/20/2019 | | |
| R White | G-080-01 | The gravity by pass from RSPS2 to the California Structure is being capped. | | | 3 | | | | |
| TAKEMOTOMW | G-080-01 | Yard piping drawings show re-routing of the North Milpitas Forcemain, but does not show re-routing of the South Milpitas Forcemain. Suggest maintaining the South Milpitas FM connection at the Milpitas Structure for operational flexibility. Confirm. | | | 3 | White | 12/6/2019 | | |

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|--|--|------------|--|-----------|----------|--------------------|---------------|-------------|--|
| | | | Per meeting on 10/22 Milpitas FMs will be connected outside of the Milpitas Structure and a new connection to the EBOS will be made. | | | | | | |
| R White | | G-080-01 | GMP Assumption: Include alternate route for Milpitas FM. Use design and cost values from 30%. Include costs in Cost Model. | | 3 | | | | |
| dbpeters | | G-080-01 | 84 can go to Filters too - show junction box? | | 3 | White | 10/20/2019 | | |
| R White | | G-080-01 | Junction Box is shown on G-081-01. | | 3 | | | | |
| dbpeters | | G-080-01 | I think Esteros/Alviso are abandoned | | 3 | White | 10/20/2019 | | |
| R White | | G-080-01 | Agreed, will remove or note. | | 3 | | | | |
| DG | | G-080-01 | cap line to south? | | 3 | White | 10/20/2019 | | |
| R White | | G-080-01 | Yes, will modify. | | 3 | | | | |
| TAKEMOTOMW | | G-080-01 | What is happening to this line? Abandoned? | | 3 | White | 10/20/2019 | | |
| R White | | G-080-01 | Correct, this line will be abandoned. | | 3 | | | | |
| DG | | G-080-01 | Show 24" and 66" as being diverted | | 3 | White | 10/20/2019 | | |
| R White | | G-080-01 | Will do. | | 3 | | | | |
| TAKEMOTOMW | | G-081-01 | Storm drain schematic does not match the yard piping shown on Y-106-07 | | 3 | Edwards | 10/20/2019 | | |
| R White | | G-081-01 | Will label 15" pipe for clarity. | | 3 | | | | |
| DG | | G-081-01 | indicate source, pipe size | | 3 | Edwards | 10/20/2019 | | |
| dedwards | | G-081-01 | Will provide source pipe size | | 3 | | | | |
| dbpeters | | G-081-01 | Cheaper to pump into Filter BW OF pipe? | | 3 | Edwards | 10/20/2019 | | |
| | | | Possibly. We can look at a cost comparison. Need to discuss if sending this flow normally through the Coffin structure and through the headworks is desirable versus to California and onto the Primaries. This is a low flow so, velocity would be very low in the 36", 48" and 84" piping to the Coffin structure. | | 3 | | | | |
| dedwards | | G-081-01 | Based on Y-101-07 it appear there is another existing CB that tees in here | | 3 | Edwards | 10/20/2019 | | |
| TAKEMOTOMW | | G-081-01 | There is another SD pipe which ties into CB61. Will add it to this diagram. | | 3 | | | | |
| dedwards | | G-081-01 | Show overflow structure to EOB | | 3 | White | 10/20/2019 | | |
| MBritten | | G-090-01 | Flow does not pass through the EOB, and is only used as temporary storage | | 3 | | | | |
| R White | | G-090-01 | Show profile of EOB | | 3 | White | 10/20/2019 | | |
| MBritten | | G-090-01 | EOB is empty in these flow scenarios., | | 3 | | | | |
| R White | | G-090-01 | | 25 | 3 | | 10/20/2019 | | |
| MBritten | | G-090-01 | 0 EL -1.48 EL-4.12 EL -5.00 NATHAN EBBS 38905 -5 | | 3 | | | | |
| | | | This will overflow if power goes out at plant while power is still on for pump stations in the collection system. Consider provisions for containing or directing flow to storage to prevent violation. Also, a spill here would be catastrophic from erosion/washout of the facilities if not conveyed by hard structures, such as piping or lined channel. Consider overflow line to EOB | | | | | | |
| MBritten | | G-090-01 | The pump base mounting is sealed to avoid the catastrophic spill mentioned. If a pump is removed from service for overhaul, the isolation gates to the pump bay will be closed and will prevent such a catastrophic spill. | | 3 | Crook | 10/20/2019 | | |
| scrook | | G-090-01 | Has the additional headloss through the wet well baffle wall and inlet gates openings been factored in the hydraulic profile? | | 3 | | | | |
| TAKEMOTOMW | | G-090-01 | Assumed losses through the baffle wall are being used. Inlet losses are factored in. | | 3 | White | 10/20/2019 | | |
| R White | | G-090-01 | What is range? 23.0 is higher than flow ever gets. | | 3 | Youker | 10/20/2019 | | |
| dbpeters | | G-090-01 | El 23.0 is a static/passive overflow weir elevation. It comes in use during an emergency if gate at California Structure is closed. We can lower the overflow weir elevation so that is comes into use sooner. | | 3 | | | | |
| Bryan Youker | | G-090-01 | OVERFLOW WEIR EL 23.0 San Jose- Santa Clara Regional Wastewater Facility 3C | | 3 | | 10/20/2019 | | |
| MBritten | | G-090-01 | | | 3 | | | | |
| kmaestri | | G-090-01 | Could not find 4D on this sheet. Suggest adding a reference to Note 2. above. if that is applicable | | 3 | White | 10/20/2019 | | |
| TAKEMOTOMW | | G-090-01 | Will correct. | | 3 | | | | |
| R White | | G-090-01 | Headworks 3 | | 3 | Youker | 10/20/2019 | | |
| dbpeters | | G-110-01 | Will add | | 3 | | | | |
| Bryan Youker | | G-110-01 | Show information in a table format so one doesn't have to align the numerical information on the right side to the text description on the left side. | | 3 | Youker | 10/20/2019 | | |
| DG | | G-110-01 | Will add grid lines from spreadsheet when we copy into drawing. | | 3 | | | | |
| Bryan Youker | | G-110-01 | Headworks 3 | | 3 | Youker | 10/20/2019 | | |
| dbpeters | | G-110-01 | Will add | | 3 | | | | |
| Bryan Youker | | G-110-01 | Headworks 3 | | 3 | Youker | 10/20/2019 | | |
| dbpeters | | G-110-01 | Will add | | 3 | | | | |
| Bryan Youker | | G-110-01 | Suggest calling this "HW3 Stormwater PS" to avoid confusion with the recycle PS. | | 3 | Youker | 10/20/2019 | | |
| DG | | G-110-01 | This pump station also receives non-stormwater flow and follows the precedence of other recycle pump stations. | | 3 | | | | |
| Bryan Youker | | G-110-01 | add capacity information, efficiencies, | | 3 | Youker | 10/20/2019 | | |
| DG | | G-110-01 | Will add capacity. Will consider including efficiencies. | | 3 | | | | |
| Bryan Youker | | G-110-01 | Does not match spec, this table should say what the design criteria of the headcells are | | 3 | Youker | 10/20/2019 | | |

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| | Page Label | Comments (in gray rows) | Responses (in white rows) | Commenter | Category | Assigned Responder | Date Answered | Backchecked | |
| Bryan Youker | G-110-01 | Will delete the PHDWF since spec only describes grit removal at 28 mgd and 46 mgd. The removal for 28/46mgd does match specification. 28 mgd/basin = Design Year ADMMF with 5 basins in service. | | | 3 | | | | |
| DG | G-110-01 | What use is the startup year information? Suggest only having design year info. | | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | G-110-01 | Startup year information is useful to see the flows anticipated when testing. They can also be useful for estimating minimum flows. We can delete information if desired. Provide direction. | | | 3 | | | | |
| dbpeters | G-120-01 | Explicitly call out 96" from HW3 to CA similar to what is shown for 108" | | | 3 | Edwards | 10/20/2019 | | |
| dedwards | G-120-01 | Will add row for 96" | | | 3 | | | | |
| dbpeters | G-120-01 | | | | 3 | Edwards | 10/20/2019 | | |
| kmaestri | G-120-01 | no comment | | | 3 | | | | |
| TAKEMOTOMW | N-001-09 | Flow can go in both directions. | | | 3 | Foley | 10/20/2019 | | |
| jfoley | N-001-09 | Will update. | | | 3 | | | | |
| Carlos Garcia | N-001-09 | Typical: Drop "00" from all non-repeating setups, systems, of instruments | | | 3 | Foley | 10/20/2019 | | |
| jfoley | N-001-09 | Will do. | | | 3 | | | | |
| TAKEMOTOMW | N-001-09 | Tag #? | | | 3 | Foley | 10/20/2019 | | |
| Bryan Youker | N-001-09 | No tags on manual valves until next phase. | | | 3 | | | | |
| Carlos Garcia | N-001-09 | Typical: All disconnects are "ZI" not "XL" | | | 3 | Foley | 10/20/2019 | | |
| jfoley | N-001-09 | Will update. | | | 3 | | | | |
| Carlos Garcia | N-001-09 | It is customary to have legends & symbols sheets at beginning of section. Please move it. | | | 3 | Foley | 10/20/2019 | | |
| Carlos Garcia | N-001-09 | Suffix "B" not necessary. Typical if the conflict is caused by the mis-tagged "disconnect close" which should also lose the "A" suffix | | | 3 | Foley | 10/20/2019 | | |
| jfoley | N-001-09 | Will update. | | | 3 | | | | |
| Carlos Garcia | N-002-09 | Coming from where? | | | 3 | Foley | 10/20/2019 | | |
| kmaestri | N-002-09 | will fix | | | 3 | | | | |
| DG | N-002-09 | Provide an example. | | | 3 | Foley | 10/20/2019 | | |
| jfoley | N-002-09 | Will do. | | | 3 | | | | |
| Carlos Garcia | N-002-09 | Why of what is the purpose? | | | 3 | Foley | 10/20/2019 | | |
| kmaestri | N-002-09 | | | | 3 | | | | |
| DG | N-002-09 | CU numbering is incorrect, modify (TYP of all drawings) | | | 3 | Foley | 10/20/2019 | | |
| jfoley | N-002-09 | Will do. | | | 3 | | | | |
| Carlos Garcia | N-003-09 | Are Typical marked in N-001-09 and are redlined here just emphasize the error. It will not be redlined anymore. | | | 3 | Foley | 10/20/2019 | | |
| jfoley | N-003-09 | Noted, will update. | | | 3 | | | | |
| TAKEMOTOMW | N-003-09 | Flow can go in both directions. | | | 3 | Foley | 10/20/2019 | | |
| jfoley | N-003-09 | Will update. | | | 3 | | | | |
| TAKEMOTOMW | N-005-09 | Label | | | 3 | Foley | 10/20/2019 | | |
| Bryan Youker | N-005-09 | Will add. 12" | | | 3 | | | | |
| TAKEMOTOMW | N-005-09 | Delete "Grit Basin Effluent" from label. | | | 3 | Foley | 10/20/2019 | | |
| Bryan Youker | N-005-09 | Agree. Will revise. | | | 3 | | | | |
| DG | N-005-09 | Is a MODBUS connection provided from each PLC? TYP | | | 3 | Foley | 10/20/2019 | | |
| kmaestri | N-005-09 | | | | 3 | | | | |
| TAKEMOTOMW | N-005-09 | 18" SCR/D | | | 3 | Foley | 10/20/2019 | | |
| Bryan Youker | N-005-09 | Agree. Will add callout. | | | 3 | | | | |
| TAKEMOTOMW | N-005-09 | Delete "Screenings Handling" from label. | | | 3 | Foley | 10/20/2019 | | |
| Bryan Youker | N-005-09 | Agree. Will revise | | | 3 | | | | |
| Carlos Garcia | N-005-09 | Apply standard for "multiple level indicators" correct suffixes are -01A & -01B | | | 3 | Foley | 10/20/2019 | | |
| jfoley | N-005-09 | Will do. | | | 3 | | | | |
| DG | N-006-09 | What is Home position? | | | 3 | Foley | 10/20/2019 | | |
| Bryan Youker | N-006-09 | Huber includes a proximity switch to know where "home" position is. The cleaning cycle requires at least one revolution of the rakes. | | | 3 | | | | |
| Carlos Garcia | N-006-09 | When there is a single, non-repeating instrument or set-up there is no numeric suffix drop the "-01" | | | 3 | Foley | 10/20/2019 | | |
| jfoley | N-006-09 | Will do. | | | 3 | | | | |
| Carlos Garcia | N-006-09 | Note: Please ensure that all "one-off" or non-repeating setups have no numeric suffix | | | 3 | Foley | 10/20/2019 | | |
| jfoley | N-006-09 | Noted. | | | 3 | | | | |
| TAKEMOTOMW | N-006-09 | Suggest "Screen" instead of "Screenings", TYP 3 | | | 3 | Foley | 10/20/2019 | | |
| Bryan Youker | N-006-09 | Agree. This is Influent Screen Effluent Channel. | | | 3 | | | | |
| TAKEMOTOMW | N-006-09 | Not clear which valves these are on the Yard Piping sheets. | | | 3 | Foley/Youker | 10/20/2019 | | |
| Bryan Youker | N-006-09 | Agree. Will likely create another PID on Utility PID that shows the connection between RW and WTR3 with the isolation valves and backflow preventer. | | | 3 | | | | |
| Carlos Garcia | N-006-09 | Use new: TQH (VAH) is for vibration | | | 3 | Foley | 10/20/2019 | | |
| jfoley | N-006-09 | Will do. | | | 3 | | | | |
| Carlos Garcia | N-006-09 | This is also a non-repeating instrument drop the suffix "-01" | | | 3 | Foley | 10/20/2019 | | |
| kmaestri | N-006-09 | acknowledged | | | 3 | | | | |

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|--|----------|---|--|-----------|----------|--------------------|---------------|-------------|--|
| Page Label | | | | | | | | | |
| Carlos Garcia | N-006-09 | Hollow arrow | | | 3 | Foley | 10/20/2019 | | |
| jfoley | N-006-09 | Will update. | | | 3 | | | | |
| TAKEMOTOMW | N-006-09 | Is there a damper on this line? | | | 3 | Foley | 10/20/2019 | | |
| kmaestri | N-006-09 | no | | | 3 | | | | |
| DG | N-006-09 | move note to top right, see CAD stds. typ. | | | 3 | Williamson | 10/20/2019 | | |
| kmaestri | N-006-09 | will modify | | | 3 | | | | |
| DG | N-006-09 | Name channels 1, 2 and 3 | | | 3 | Foley | 10/20/2019 | | |
| Bryan Youker | N-006-09 | Agree. Will add. | | | 3 | | | | |
| TAKEMOTOMW | N-007-09 | This end should be drawn as the end of concrete channel. Flow exits via pipe. | | | 3 | Foley | 10/20/2019 | | |
| kmaestri | N-007-09 | will coordinate with mechanical | | | 3 | | | | |
| TAKEMOTOMW | N-007-09 | Not sure what this is. Could not find it on the process drawings. | | | 3 | Foley | 10/20/2019 | | |
| kmaestri | N-007-09 | | | | 3 | | | | |
| Carlos Garcia | N-007-09 | C1 & C2 suffixes | | | 3 | Foley | 10/20/2019 | | |
| jfoley | N-007-09 | Will add. | | | 3 | | | | |
| Carlos Garcia | N-007-09 | Redlining again for emphasis: apply "multiple level indicators in tank" rule of the standards | | | 3 | Foley | 10/20/2019 | | |
| jfoley | N-007-09 | Noted. | | | 3 | | | | |
| TAKEMOTOMW | N-007-09 | 120" RS | | | 3 | Foley | 10/20/2019 | | |
| jfoley | N-007-09 | Will add. | | | 3 | | | | |
| Carlos Garcia | N-007-09 | function of this? | | | 3 | Foley | 10/20/2019 | | |
| kmaestri | N-007-09 | | | | 3 | | | | |
| TAKEMOTOMW | N-007-09 | Suggest "Screen" not "Screenings" | | | 3 | Foley | 10/20/2019 | | |
| kmaestri | N-007-09 | will consider | | | 3 | | | | |
| Carlos Garcia | N-007-09 | Careful with this change (typo?) Please ensure that "XL" is used throughout | | | 3 | Foley | 10/20/2019 | | |
| jfoley | N-007-09 | Will do. | | | 3 | | | | |
| Carlos Garcia | N-008-09 | This valve loop number is not consistent with the tags at the panel or at DCS. See drawing N-009-09 for reference | | | 3 | Foley | 10/20/2019 | | |
| kmaestri | N-008-09 | will review | | | 3 | | | | |
| Carlos Garcia | N-008-09 | This leads to #9523 | | | 3 | Foley | 10/20/2019 | | |
| kmaestri | N-008-09 | will fix | | | 3 | | | | |
| Carlos Garcia | N-008-09 | Is this hand switch local? | | | 3 | Foley | 10/20/2019 | | |
| kmaestri | N-008-09 | yes | | | 3 | | | | |
| Carlos Garcia | N-008-09 | Same panel # in N-009-09 Is this 14LCP9523? | | | 3 | Foley | 10/20/2019 | | |
| kmaestri | N-008-09 | yes, panel is shown on multiple PIDS. | | | 3 | | | | |
| TAKEMOTOMW | N-008-09 | Could not find these on the mechanical process sheets. Does not seem to match the configuration shown on the process mechanical drawings. | | | 3 | Foley | 10/20/2019 | | |
| kmaestri | N-008-09 | will coordinate | | | 3 | | | | |
| Carlos Garcia | N-009-09 | Same panel # in N-008-09 | | | 3 | Foley | 10/20/2019 | | |
| kmaestri | N-009-09 | yes | | | 3 | | | | |
| Carlos Garcia | N-009-09 | ETC | | | 3 | Foley | 10/20/2019 | | |
| kmaestri | N-009-09 | unclear of comment | | | 3 | | | | |
| TAKEMOTOMW | N-009-09 | K abbreviation for knife gate missing on VLV 9520-03 | | | 3 | Foley | 10/20/2019 | | |
| kmaestri | N-009-09 | will correct | | | 3 | | | | |
| TAKEMOTOMW | N-012-09 | Not sure what the bypass line is for. If its to maintain the flow meter and PRV then additional isolation valves are needed to isolate those items. | | | 3 | Foley | 10/20/2019 | | |
| kmaestri | N-012-09 | will review and add additional valves as needed | | | 3 | | | | |
| TAKEMOTOMW | N-012-09 | This end should be drawn as the start of a concrete channel. Flow enters via pipe | | | 3 | Foley | 10/20/2019 | | |
| kmaestri | N-012-09 | will coordinate with mechanical and correct as needed | | | 3 | | | | |
| Carlos Garcia | N-012-09 | Legends are not sufficiently clear typical N-(012-016)-09 | | | 3 | Foley | 10/20/2019 | | |
| kmaestri | N-012-09 | Unclear what the specific issue is. | | | 3 | | | | |
| TAKEMOTOMW | N-012-09 | 120" RS | | | 3 | Foley | 10/20/2019 | | |
| jfoley | N-012-09 | Will add. | | | 3 | | | | |
| TAKEMOTOMW | N-019-09 | The physical depiction shown is mirrored from what the actual physical arrangement is. E.g. Grit Basin 1 is on the south side of the structure; based on the view shown here it would be on the north side. Revise. | | | 3 | Foley | 10/20/2019 | | |
| kmaestri | N-019-09 | these are graphical and are for describing all the equipment on the project, not meant to mirror the exact physical layout of the equipment. No change planned. | | | 3 | | | | |
| Carlos Garcia | N-019-09 | There is no "C3" suffix in standard. Typical | | | 3 | Foley | 10/20/2019 | | |
| jfoley | N-019-09 | Will update. | | | 3 | | | | |
| TAKEMOTOMW | N-020-09 | The physical depiction shown is mirrored from what the actual physical arrangement is. | | | 3 | Foley | 10/20/2019 | | |
| kmaestri | N-020-09 | see response on previous page | | | 3 | | | | |
| TAKEMOTOMW | N-021-09 | D120-14HW3GB shows a foul air makeup air intake near Grit Basin 6. | | | 3 | Foley | 10/20/2019 | | |
| kmaestri | N-021-09 | will coordinate and modify PID as needed. | | | 3 | | | | |
| Carlos Garcia | N-021-09 | Digital arrow | | | 3 | Foley | 10/20/2019 | | |
| jfoley | N-021-09 | Will update. | | | 3 | | | | |
| Carlos Garcia | N-021-09 | Non-repeating. Drop the suffix "01" | | | 3 | Foley | 10/20/2019 | | |

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|--|----------|--|--|-----------|----------|--------------------|---------------|-------------|--|
| Page Label | | | | | | | | | |
| jfoley | N-021-09 | Will do. | | | 3 | | | | |
| TAKEMOTOMW | N-021-09 | The physical depiction shown is mirrored from what the actual physical arrangement is. | | | 3 | Foley | 10/20/2019 | | |
| kmaestri | N-021-09 | acknowledged. see response on previous page. | | | 3 | | | | |
| TAKEMOTOMW | N-022-09 | /RW | | | 3 | Foley | 10/20/2019 | | |
| Bryan Youker | N-022-09 | Will review and coordinate flow streams. | | | 3 | | | | |
| TAKEMOTOMW | N-022-09 | This does not align with flow tags on N-025-09. Should be 70? | | | 3 | Foley | 10/20/2019 | | |
| kmaestri | N-022-09 | will confirm and fix as required | | | 3 | | | | |
| Carlos Garcia | N-022-09 | Typical. Also need a "C1" suffix | | | 3 | Foley | 10/20/2019 | | |
| jfoley | N-022-09 | Will update. | | | 3 | | | | |
| TAKEMOTOMW | N-023-09 | Grit Handling 1 | | | 3 | Foley | 10/20/2019 | | |
| Bryan Youker | N-023-09 | Will review and correct. | | | 3 | | | | |
| TAKEMOTOMW | N-024-09 | Grit Handling 2 | | | 3 | Foley | 10/20/2019 | | |
| Bryan Youker | N-024-09 | Will review and correct. | | | 3 | | | | |
| TAKEMOTOMW | N-025-09 | AI label missing? | | | 3 | Foley | 10/20/2019 | | |
| kmaestri | N-025-09 | will review and correct as needed | | | 3 | | | | |
| Carlos Garcia | N-030-09 | This is a unique drawing. As such, there is no need for the numeric suffix. Drop all "01" suffixes and fix the open/close suffixes with C1 & C2 | | | 3 | Foley | 10/20/2019 | | |
| jfoley | N-030-09 | Will do. | | | 3 | | | | |
| TAKEMOTOMW | N-030-09 | Is it possible and/or is the City interested in re-purposing one of the existing motorized actuators on the gate for the new connection from HW3? | | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | N-030-09 | City to provide direction. | | | 3 | | | | |
| Carlos Garcia | N-030-09 | Do we need a start/stop on this? | | | 3 | Foley | 10/20/2019 | | |
| kmaestri | N-030-09 | we do not believe a remote start stop is required. | | | 3 | | | | |
| Carlos Garcia | N-031-09 | Have the grayed out signals been removed? | | | 3 | Foley | 10/20/2019 | | |
| kmaestri | N-031-09 | no, they are existing signals that are not being modified. new signals. | | | 3 | | | | |
| Carlos Garcia | N-031-09 | Unique drawing. Suffixes not wanted. Marked here again just for identifications purposes. This error is now considered "typical" and will not be called out again. | | | 3 | Foley | 10/20/2019 | | |
| jfoley | N-031-09 | Noted. | | | 3 | | | | |
| Carlos Garcia | N-031-09 | Pressure controller? Use "PC" | | | 3 | Foley | 10/20/2019 | | |
| jfoley | N-031-09 | Will do. | | | 3 | | | | |
| TAKEMOTOMW | N-033-09 | k | | | 3 | Cowden | 10/20/2019 | | |
| kmaestri | N-033-09 | no comment | | | 3 | | | | |
| Carlos Garcia | N-033-09 | What are these? XXX? AET, AY? | | | 3 | Foley | 10/20/2019 | | |
| kmaestri | N-033-09 | | | | 3 | | | | |
| TAKEMOTOMW | N-033-09 | Label | | | 3 | Cowden | 10/20/2019 | | |
| scowden | N-033-09 | Label will be added. | | | 3 | | | | |
| TAKEMOTOMW | N-033-09 | Revise to match physical configuration. | | | 3 | Cowden | 10/20/2019 | | |
| scowden | N-033-09 | PID will be revised to match physical configuration. | | | 3 | | | | |
| Carlos Garcia | N-033-09 | Unique - Drop Suffixes | | | 3 | Foley | 10/20/2019 | | |
| jfoley | N-033-09 | Will do. | | | 3 | | | | |
| dbpeters | N-033-09 | Shown as 24" on Sheet 100 | | | 3 | Cowden | 10/20/2019 | | |
| scowden | N-033-09 | Size will be coordinated. | | | 3 | | | | |
| Carlos Garcia | N-033-09 | Use "UA" | | | 3 | Foley | 10/20/2019 | | |
| jfoley | N-033-09 | Will do. | | | 3 | | | | |
| dbpeters | N-033-09 | Are fans sized for future EBOS connection? Will system need to be rebalanced at that time? | | | 3 | Cowden | 10/20/2019 | | |
| scowden | N-033-09 | Fans will be sized for future EBOS but system will need to be rebalanced in the future. | | | 3 | | | | |
| Carlos Garcia | N-034-09 | Drop all "01" suffixes | | | 3 | Foley | 10/20/2019 | | |
| jfoley | N-034-09 | Will do. | | | 3 | | | | |
| TAKEMOTOMW | N-034-09 | Confirm these valves are needed. Other means of isolation are available upstream and downstream. | | | 3 | Cowden | 10/20/2019 | | |
| scowden | N-034-09 | Valves should be provided for isolating basket strainer. | | | 3 | | | | |
| TAKEMOTOMW | N-034-09 | Confirm this configuration. As drawn it will allow all water to drain out of the odor control tower. | | | 3 | Cowden | 10/20/2019 | | |
| scowden | N-034-09 | Configuration will be corrected to match physical layout. | | | 3 | | | | |
| TAKEMOTOMW | N-034-09 | 2-1/2" BR? | | | 3 | Cowden | 10/20/2019 | | |
| kmaestri | N-034-09 | will confirm | | | 3 | | | | |
| Carlos Garcia | N-034-09 | Use C1 and "START" | | | 3 | Foley | 10/20/2019 | | |
| jfoley | N-034-09 | Will do. | | | 3 | | | | |
| Carlos Garcia | N-037-09 | "00" Suffix | | | 3 | Foley | 10/20/2019 | | |
| jfoley | N-037-09 | Will add. | | | 3 | | | | |
| Carlos Garcia | N-037-09 | Are arrows reversed? | | | 3 | Foley | 10/20/2019 | | |
| kmaestri | N-037-09 | will confirm | | | 3 | | | | |
| Carlos Garcia | N-037-09 | Not a solid arrow | | | 3 | Foley | 10/20/2019 | | |
| kmaestri | N-037-09 | will fix | | | 3 | | | | |
| TAKEMOTOMW | N-038-09 | This line goes into the manhole on yard piping sheets. | | | 3 | Edwards | 10/20/2019 | | |

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|--|-------------|---|--|-----------|----------|--------------------|---------------|-------------|--|
| dedwards | N-038-09 | Will update the P&ID to match yard piping. | | | 3 | | | | |
| TAKEMOTOMW | N-038-09 | This line goes directly into the P5 wet well on process mech and yard piping sheets (i.e. not through a manhole first) | | | 3 | Edwards | 10/20/2019 | | |
| dedwards | N-038-09 | Will revise the P&ID to match Process and Yard piping. | | | 3 | | | | |
| Carlos Garcia | N-038-09 | Arrows reversed? | | | 3 | Foley | 10/20/2019 | | |
| kmaestri | N-038-09 | will confirm | | | 3 | | | | |
| TAKEMOTOMW | N-038-09 | 15" on process mech drawings | | | 3 | Edwards | 10/20/2019 | | |
| dedwards | N-038-09 | Will update the P&ID to match Process and Yard piping drawings. | | | 3 | | | | |
| Carlos Garcia | N-039-09 | Alarm = "UA" | | | 3 | Foley | 10/20/2019 | | |
| jfoley | N-039-09 | Will update. | | | 3 | | | | |
| Carlos Garcia | N-039-09 | Supervisory? Describe this please | | | 3 | Foley | 10/20/2019 | | |
| kmaestri | N-039-09 | | | | 3 | | | | |
| TAKEMOTOMW | N-039-09 | Complete | | | 3 | Foley | 10/20/2019 | | |
| Bryan Youker | N-039-09 | Agree. Will complete connector. | | | 3 | | | | |
| nelsopetroni | N-040-09 | | | | 3 | Michaud | 10/20/2019 | | |
| ttom | N-040-09 | Will correct.This is for I&C. | | | 3 | | | | |
| nelsopetroni | N-040-09 | SEE COMMENT ON SHEET E-601-14BLDG64 (SHEET 359) REGARDING "MMF" FOR THE MAIN BREAKERS | | | 3 | Michaud | 10/20/2019 | | |
| ttom | N-040-09 | Will coordinate with I&C | | | 3 | | | | |
| nelsopetroni | N-040-09 | IS IT APPROPRIATE TO INCLUDE IN THIS DRAWING THE STATUS OF FEEDER 86 AND THE 86B BUS DIFFERENTIAL | | | 3 | Michaud | 10/20/2019 | | |
| ttom | N-040-09 | Will discuss with I&C | | | 3 | | | | |
| nelsopetroni | N-040-09 | | | | 3 | | 10/20/2019 | | |
| kmaestri | N-040-09 | no comment | | | 3 | | | | |
| nelsopetroni | N-040-09 | MOVE "MMF" CLOSER TO BREAKER | | | 3 | Michaud | 10/20/2019 | | |
| ttom | N-040-09 | Will correct. This is for I&C. | | | 3 | | | | |
| Carlos Garcia | N-040-09 | Trip = "XA" Solve suffix conflict, maybe change to "03"? Typica | | | 3 | Foley | 10/20/2019 | | |
| kmaestri | N-040-09 | will fix | | | 3 | | | | |
| Carlos Garcia | N-060-09 | Proper S800 topology | | | 3 | Foley | 10/20/2019 | | |
| jfoley | N-060-09 | Will update. | | | 3 | | | | |
| Jerry Au | N-060-09 | Correct HPC PDP | | | 3 | Foley | 10/20/2019 | | |
| jfoley | N-060-09 | Will update. | | | 3 | | | | |
| Carlos Garcis | N-060-09 | | | | 3 | | 10/20/2019 | | |
| kmaestri | N-060-09 | will fix | | | 3 | | | | |
| Carlos Garcis | N-060-09 | | | | 3 | | 10/20/2019 | | |
| kmaestri | N-060-09 | fill fix | | | 3 | | | | |
| dbpeters | R-001-05 | 1. City does not want gravel areas because they are conducive to weed growth. 2. Due to permit requirements, all drainage from HW3 facilities and new paving must be collected and routed to HW3 recycle pump station and/or additional recycle pump stations added. We will likely need curb and gutter and a drainage pump station on the south side of the road around EBOS and Ferric. Per meeting with client 10/22, ground cover in "triangle" between screens and septage receiving will be restored with grass seed. Existing ground cover around EBOS will remain. Additional pump station and storm collection will be added to pavement around EBOS and Ferric Chloride. | | | 3 | Chandler | 12/6/2019 | | |
| Sam Chandler | R-001-05 | GMP Assumption: Item addressed in QRF list. Included additional piping and pump station within EBOS facility. | | | 2 | | | | |
| dbpeters | R-001-14HW3 | How will flow from EBOS be shutoff while using this loop? Look at option of just flowing through EOB and EBOS instead of installing this throw-away pipe. | | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | R-001-14HW3 | EBOS can be isolated in 2 ways: 1) stop plate over end of 108"; 2) isolate interceptor 4, and route al flow through interceptors 2&3 to HW 1. | | | 3 | | | | |
| TAKEMOTOMW | R-001-14HW3 | D-100-14HW3IS show the 42" RS from the grit area connecting here. Reconcile | | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | R-001-14HW3 | Yes. Will coordinate during next phase of design. | | | 3 | | | | |
| TAKEMOTOMW | R-002-05 | Handrail is likely needed here. | | | 3 | Scoggins | 10/20/2019 | | |
| Iscoffin | R-002-05 | Agree. Will review railing extents. | | | 3 | | | | |
| TAKEMOTOMW | R-002-05 | No handrail needed here. | | | 3 | Scoggins | 10/20/2019 | | |
| Iscoffin | R-002-05 | Will review railing extents | | | 3 | | | | |
| DG | R-002-05 | Is there enough room for crane access? What crane was assumed used for lifting equipment? | | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | R-002-05 | Yes, enough room for crane. Concrete deck over channels designed to support City's vehicles per information provided. | | | 3 | | | | |
| TAKEMOTOMW | R-002-05 | Consider bollards to protect piping from traffic. | | | 3 | Scoggins | 10/20/2019 | | |
| Iscoffin | R-002-05 | Noted. Will discuss with Civil | | | 3 | | | | |
| TAKEMOTOMW | R-002-05 | Can this FA duct be lowered? Seems higher than necessary since there is limited/no access from this side. Large vertical supports will be required, which are not currently shown. | | | 3 | Cowden | 10/20/2019 | | |

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| scowden | R-002-05 | Duct elevation will be reviewed and duct lowered if possible and depending on access requirements. | | | 3 | | | | |
| TAKEMOTOMW | R-002-05 | May want to consider covering this box w/ grating. | | | 3 | Scoggins | 10/20/2019 | | |
| Iscoffin | R-002-05 | Box is intended to overflow during high flow conditions. Grating not desired | | | 3 | | | | |
| TAKEMOTOMW | R-003-05 | Consider relocating box/panel to improve O&M access between the screenings washers. | | | 3 | Michaud | 10/20/2019 | | |
| ttom | R-003-05 | Will coordinate with process/mechanical | | | 3 | | | | |
| DG | R-003-05 | Is the height/dimensions of the building adequate to accommodate a washer system later on? | | | 3 | Youker | 12/6/2019 | | |
| | | Yes, height is adequate. Can raise the sluice system additional X feet to ensure washer can be added later. Other options exist to improving washing. Per 10/22 meeting City wants this raised so their equipment can get under it. Jacobs to go look at the piece of equipment on site to confirm it will fit under the canopy or how high it needs to be raise. | | | | | | | |
| Bryan Youker | R-003-05 | GMP Cost Assumption: Include increase in height. Assume height similar to existing HW canopies. | | | 3 | | | | \$ 32,000 |
| dbpeters | R-004-05 | Is this box blocking dumpster opening? | | | 3 | Michaud | 10/20/2019 | | |
| ttom | R-004-05 | These may be modified in 90%. | | | 3 | | | | |
| MBritten | R-004-05 | . | | | 3 | | 10/20/2019 | | |
| kmaestri | R-004-05 | no comment | | | 3 | | | | |
| dbpeters | R-004-05 | Not sure what these are but they look hard to access. | | | 3 | Michaud | 10/20/2019 | | |
| ttom | R-004-05 | Junction boxes, only needed to facilitate the pulling of conductors. | | | 3 | | | | |
| dbpeters | R-004-14HW3 | O&M concerned with what happens if compactors plug? This has been a problem at both HW1 and HW2 Where will flow go? Do we need a "wet bin" like we saw in Albuquerque? The end of sluice is equipped with a 12" diameter connection for temporary hose. Per 10/22 meeting City wants a permanent connection and permanent 3rd dumpster. | | | 3 | Youker | 12/6/2019 | | |
| Bryan Youker | R-004-14HW3 | GMP Assumption: This item addressed in the QRF list. | | | 3 | | | | |
| dbpeters | R-004-14HW3 | How will O&M access top of screens and sluice? Access sluice and top of screen with temporary/portable access (push stairs, Genie, etc). Per 10/22 meeting City wants platform | | | 3 | Youker | 12/6/2019 | | |
| Bryan Youker | R-004-14HW3 | GMP Assumption: This item addressed in the QRF list. | | | 3 | | | | |
| dbpeters | R-005-05 | Will this pipe be in the asphalt? Currently yes. However, we can include concrete pad around FA and WTR3 that feeds sluice. We would also include bollards. | | | 3 | Youker | 10/20/2019 | | |
| Bryan Youker | R-005-05 | Is this single odor control collection pipe sufficient for the entire screenings facility? Are we drawing intake air into the bar screen covers? | | | 3 | | | | |
| dbpeters | R-005-14HW3 | The single odor control duct is considered sufficient since screening facility will be contained and air will be drawn in from ends where gates are located and at the screenings enclosure due to leaks. This will prevent "dead zones" and ensure good scavenging. | | | 3 | | | | |
| scowden | R-005-14HW3 | Will flow favor center screen? | | | 3 | Youker | 10/20/2019 | | |
| dbpeters | R-005-14HW3 | Per recent CFD modeling, flow favors center screen slightly when 2 screens in service, and one of them being center screen. Normally, there will be 2 screens operating. Those 2 screens could be 1&3, then flow split is even. Still planning to add short 2ft-diameter column to break up flow. | | | 3 | | | | |
| Bryan Youker | R-005-14HW3 | Consider over flow pipe and outlet box - wier? spring-loaded valve operator operating on loss of power? | | | 3 | Crook | 10/20/2019 | | |
| MBritten | R-006-05 | The pump baseplate is sealed in its mounting arrangement. No catastrophic spill is possible as currently designed. | | | 3 | | | | |
| scrook | R-006-05 | Confirm plan for resolving duct bank conflict shown. | | | 3 | Michaud | 10/20/2019 | | |
| TAKEMOTOMW | R-007-05 | Many of these are existing duct banks and may be modified to accommodate pipe. Will be coordinated for 90% | | | 3 | | | | |
| ttom | R-007-05 | Confirm plan for resolving duct bank conflict shown. | | | 3 | Michaud | 10/20/2019 | | |
| TAKEMOTOMW | R-007-05 | Aware of this issue and duct banks in that area will need to be cut up to nearest manhole and rerouted to accommodate pipe crossing. | | | 3 | | | | |
| ttom | R-007-05 | Confirm plan for resolving duct bank conflict shown. | | | 3 | Michaud | 10/20/2019 | | |
| TAKEMOTOMW | R-010-14HW3 | Duct banks are existing and actual depth is currently unknown, they are place holders for now and will be coordinated when more information is gathered. | | | 3 | | | | |
| scowden | R-010-14HW3 | There will be a lot of H2S released at this location, which seem to be in a dead zone for FA flow. Confirm FA duct locations. Also do not see any air intake/makeup air connections in the grit effluent channel area. | | | 3 | Cowden | 10/20/2019 | | |
| TAKEMOTOMW | R-010-14HW3 | An intake air opening will be provided at this far end of the channel to avoid a "dead zone" | | | 3 | | | | |
| TAKEMOTOMW | R-010-14HW3 | Provide access opening over grit effluent box. Will add access. | | | 3 | Youker | 12/6/2019 | | |
| Bryan Youker | R-010-14HW3 | GMP Assumption: Included additional misc access hatches or covered openings in the QRF list. | | | 3 | | | | |
| dbpeters | R-010-14HW3 | how will O&M access top of augers and classifiers? | | | 3 | Youker | 12/6/2019 | | |

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| | | | Discussed on 10/22. Determined no permanent platforms are needed for this equipment. | | | | | | |
| Bryan Youker | | R-010-14HW3 | GMP Assumption: Include six self-contained ladder systems. Exclude platforms and walkways. | | 3 | | | | \$ 21,000 |
| DG | | R-012-14HW3 | How do we add a tap in case BAAQMD requires carbon scrubber? Where would we locate? | | 3 | Cowden | 10/20/2019 | | |
| scowden | | R-012-14HW3 | A tee with damper and down-duct is currently provided at the biotower stack for future carbon if necessary. Fans will be sized for future carbon pressure drop for ease of implementation. | | 3 | | | | |
| dbpeters | | R-012-14HW3 | Need safety cage on ladder? | | 3 | Cowden | 10/20/2019 | | |
| scowden | | R-012-14HW3 | Safety cage is no longer mandatory. However, fall protection rail is and will be added. Per 10/22 meeting cage will be added too. | | 3 | | | | |
| dbpeters | | R-012-14HW3 | Can we isolate the two towers in the future or need valves now? | | 3 | Cowden | 10/20/2019 | | |
| scowden | | R-012-14HW3 | A blind flange can be added now and a damper can be added in the future for isolation | | 3 | | | | |
| dbpeters | | R-013-14HW3 | Should we just close off this wall to prevent basement from flooding? | | 3 | Pieterick | 10/20/2019 | | |
| | | | I don't think I can. The top of stair is within the 75ft "Common Path of Travel" but if we wall the top landing off the path has to extend to the bottom of the other stair and that is farther than the 75ft allowed. | | 3 | | | | |
| epieteri | | R-013-14HW3 | | | 3 | | | | |
| MBritten | | S-110-1A | | | 3 | Scoggins | 10/20/2019 | | |
| Iscoffin | | S-110-1A | Agree | | 3 | | | | |
| TAKEMOTOMW | | S-110-1A | Label. | | 3 | Scoggins | 10/20/2019 | | |
| Iscoffin | | S-110-1A | Wall | | 3 | | | | |
| TAKEMOTOMW | | S-110-2D | Coating requirements? | | 3 | Scoggins | 12/6/2019 | | |
| | | | Will assess for conditions | | | | | | |
| | | | GMP Assumption: Include scope change. Must select products that do not impact tempory pumping, requires fast cure time. | | 3 | | | | \$ 68,000 |
| Iscoffin | | S-110-2D | | | 3 | | | | |
| TAKEMOTOMW | | S-110-2D | Coating requirements? | | 3 | Scoggins | 10/20/2019 | | |
| Iscoffin | | S-110-2D | Will coordinate with corrosion control team. | | 3 | | | | |
| DG | | S-110-14A | Is this wall to increase velocities? Seems ineffective. | | 3 | Youker | 10/20/2019 | | |
| | | | Yes. Per several workshop discussions, and per PER/Indicative Design, wall was included to increase velocity and reduce grit settlement. | | 3 | | | | |
| Bryan Youker | | S-110-14A | Also, if HW2 is off-line, the wall will cause settlement in the area north of the wall. | | 3 | Youker | 12/6/2019 | | |
| dbpeters | | S-110-14A | Per recent CFD modeling results, the water velocity is very low in front of HW2 pipe when HW2 pipe is offline. However, there is very little grit that actually travels west toward the pipe -- most travels to HW3 pipe. | | 3 | | | | |
| Bryan Youker | | S-110-14A | GMP Assumption: Assume no scope change. | | 3 | | | | |
| DG | | S-110-14A | Address removing grit settling in the EBOS (temp or permanent) - discuss with City | | 3 | Youker | 12/6/2019 | | |
| | | | Grit can be removed with vactor truck. Grit can be dumped dumped on new vactor truck receiving station, or into EOB. | | | | | | |
| Bryan Youker | | S-110-14A | GMP Assumption: Include EBOS changes per City sketch. | | 3 | | | | |
| TAKEMOTOMW | | S-110-14A | Is this wall needed? | | 3 | Youker | 12/6/2019 | | |
| | | | Per recent CFD modeling, it appears the wall does more harm than good. We are currently evaluating a baffle wall that is located 180-deg from this location (between Interceptor 4 and future interceptor). A baffle in this location may prevent buildup near the Return Pump's discharge. | | | | | | |
| Bryan Youker | | S-110-14A | GMP Assumption: Include EBOS changes per City sketch. | | 3 | | | | |
| dbpeters | | S-110-14BLDG64 | Will transformers limit access to doorway? Can they be pushed north? Do we need removable handrail to facilitate moving electrical equipment in and out of building? | | 3 | Pieterick | 12/6/2019 | | |
| | | | The intent is to have the big equipment lifted off the platform. The door swings out so the door leaf will present some obstacle to rolling the equipment north or south. We will look into moving the X-FMRS North to increase space on south side of platform to pick transformers. Railing doesn't have to be removable but we will review this plant staff at our next meeting? | | | | | | |
| epieteri | | S-110-14BLDG64 | GMP Assumption: Assume relocation but no scope change. | | 3 | | | | |
| DG | | S-110-14ODO | are pipes encased? | | 3 | Cowden | 10/20/2019 | | |
| scowden | | S-110-14ODO | This piping is above grade...not encased. | | 3 | | | | |
| dbpeters | | S-112-14B | What will this box look like when 100-mgd of sewage comes roaring through it? What was the design criteria for sizing it? | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | | S-112-14B | Will evaluate at 90% | | 3 | | | | |
| DG | | S-112-14B | show as new pipe | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | | S-112-14B | will coordinate with mechanical | | 3 | | | | |
| | | | Is this the extent of the monorail? How will equipment be removed from the bottom floor of the grit room? Seems like a monorail is needed the full length of the building and there needs to be a way to get equipment up to this platform. | | 3 | Scoggins | 10/20/2019 | | |
| TAKEMOTOMW | | S-121-14HW3GB | | | | | | | |

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| Iscoggin | | S-121-14HW3GB | Will review | | 3 | | | | |
| MBritten | | S-301-14HW3PS | How is this accessed for cleaning/re-coating in the future? There is a plate covering the front of the individual pump bay, which may be removed for access for inspection. In the event of an overhaul such as recoating, the pump would be pulled and access through the 5' diameter pump opening would allow the work to proceed. | | 3 | Crook | 10/20/2019 | | |
| scrook | | S-301-14HW3PS | | | 3 | | | | |
| MBritten | | S-301-14HW3PS | Appears to be conflicting with site grading plan | | 3 | Scoggins | 10/20/2019 | | |
| Iscoggin | | S-301-14HW3PS | Will update | | 3 | | | | |
| TAKEMOTOMW | | X-110-1A | Clarify extent of demolition at interface between the two structures. | | 3 | Scoggins | 10/20/2019 | | |
| Iscoggin | | X-110-1A | Will add detailed information | | 3 | | | | |
| TAKEMOTOMW | | X-110-1A | Confirm what is required to abandon these lines. | | 3 | Scoggins | 10/20/2019 | | |
| Iscoggin | | X-110-1A | Will work through details as design progress | | 3 | | | | |
| TAKEMOTOMW | | X-110-1A | Wouldn't the existing gates be useful for isolating the Pie structure if needed? | | 3 | White | 10/20/2019 | | |
| R White | | X-110-1A | City has expressed that gates are unusable. | | 3 | | | | |
| DG | | X-110-1A | Can we reroute the pipes coming into the NE structure to the main portion of the structure instead of the Pie Structure? | | 3 | White | 10/20/2019 | | |
| R White | | X-110-1A | Per meeting on 10/22 Milpitas FMs will be connected outside of the Milpitas Structure and a new connection to the EBOS will be made. | | 3 | | | | |
| TAKEMOTOMW | | X-110-1B | Do all of these walls need to be cut down or is cutting down 1 or 2 sufficient? All sections will need to be lowered. If only 1 or 2 are lowered, plant influent may flow to the Junction Box at peak flows. | | 3 | White | 10/20/2019 | | |
| R White | | X-110-1B | | | 3 | | | | |
| TAKEMOTOMW | | X-110-1P | Unclear if this existing or part of this project. | | 3 | White | 10/20/2019 | | |
| R White | | X-110-1P | Will clarify. | | 3 | | | | |
| DG | | X-110-14A | Where are all the other influent pipes? | | 3 | Scoggins | 10/20/2019 | | |
| Iscoggin | | X-110-14A | Not pertinent to work on this drawing | | 3 | | | | |
| DG | | X-110-14A | Call out EBOS compartment names | | 3 | Scoggins | 10/20/2019 | | |
| Iscoggin | | X-110-14A | Not necessary for work on this drawing | | 3 | | | | |
| TAKEMOTOMW | | X-110-14A | Confirm dimension. | | 3 | Scoggins | 10/20/2019 | | |
| Iscoggin | | X-110-14A | Will clarify | | 3 | | | | |
| TAKEMOTOMW | | X-110-14A | Confirm approximate diameter of concrete plug. | | 3 | Scoggins | 10/20/2019 | | |
| Iscoggin | | X-110-14A | Will have to be verified during construction | | 3 | | | | |
| TAKEMOTOMW | | Y-100-07 | Pipe not labeled. | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | | Y-100-07 | will add | | 3 | | | | |
| TAKEMOTOMW | | Y-100-07 | Suggest not showing these detail callouts on this overall site drawing, typ. | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | | Y-100-07 | Agree, detail callouts will be moved to area plans. | | 3 | | | | |
| TAKEMOTOMW | | Y-101-07 | Confirm connection detail on how the 36"x36" tee will connect to the existing 36" pipe | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | | Y-101-07 | Detail to be provided at 90% | | 3 | | | | |
| TAKEMOTOMW | | Y-101-07 | Connect to existing 8" WTR4 | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | | Y-101-07 | will review. | | 3 | | | | |
| TAKEMOTOMW | | Y-101-07 | Not clear if this SD line will still be active or not. Its not being shown as abandoned or demolished, but it currently is not shown as connected to anything on one end. | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | | Y-101-07 | Will update to show connection to new drain pipe | | 3 | | | | |
| TAKEMOTOMW | | Y-101-07 | Does this SD get demolished or abandoned? | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | | Y-101-07 | Abandoned. | | 3 | | | | |
| TAKEMOTOMW | | Y-101-07 | Consider adding a marker to facilitate locating the pipe in the future. | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | | Y-101-07 | will consider | | 3 | | | | |
| DG | | Y-101-07 | There seems to be a lot of background images (landscape, electrical lines, etc.) that shows up brighter than required when printing out and conflicts with the new callouts. Consider further graying/shading back the background (TYPICAL TO ALL YARD PIPING DRAWINGS) | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | | Y-101-07 | will review and clean up as much as possible | | 3 | | | | |
| DG | | Y-101-07 | Extend 84" line, or call out | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | | Y-101-07 | Model to be updated at 90% | | 3 | | | | |
| TAKEMOTOMW | | Y-101-07 | Reducer is shown further downstream. | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | | Y-101-07 | will coordinate | | 3 | | | | |
| TAKEMOTOMW | | Y-101-07 | Is this existing drain line being connected to the new 18" SD? | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | | Y-101-07 | Yes. | | 3 | | | | |
| DG | | Y-101-07 | Add note regarding maintaining minimum horizontal and vertical clearances between pipes (12") where not indicated | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | | Y-101-07 | this is addressed in the specs but will add a note to the general drawings. | | 3 | | | | |
| DG | | Y-101-07 | Add note regarding purpose and route of the new WBW line | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | | Y-101-07 | That is defined in the BODR. No change planned. | | 3 | | | | |
| DG | | Y-101-07 | Rename to "Backwash Overflow" JB; use acronym BWOF for Backwash Overflow System | | 3 | Edwards | 10/20/2019 | | |
| dedwards | | Y-101-07 | Will revise structure name and associated piping abbreviation! Reference to drawing Y-501-07 to be added at 90%. | | 3 | | | | |
| TAKEMOTOMW | | Y-102-07 | Could not find this sheet. X-110-2D? | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | | Y-102-07 | Sheet number 181 (PDF page 182) of this drawing set. | | 3 | | | | |

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|--|--|------------|--|-----------|----------|--------------------|---------------|-------------|--|
| TAKEMOTOMW | | Y-102-07 | Suggest requiring the manhole to be marked as "Abandoned" in the field. Will discuss with City how to identify abandoned manholes assuming the are to remain in the ground (per discussions about CIP requirement that nothing is "abandoned") | | 3 | Chandler | 12/6/2019 | | |
| Sam Chandler | | Y-102-07 | GMP Assumption: See QRF list for additional comments on abandoned pipes. No additional scope requirements. | | 3 | | | | |
| DG | | Y-102-07 | show extents of the existing concrete box | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | | Y-102-07 | will clarify | | 3 | | | | |
| TAKEMOTOMW | | Y-102-07 | Not clear where this 8" PD is connecting to the existing pipe per the callout. | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | | Y-102-07 | will clarify | | 3 | | | | |
| DG | | Y-102-07 | what pipe is this? name. | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | | Y-102-07 | 8" PD | | 3 | | | | |
| DG | | Y-102-07 | add section drawing showing this connection | | 3 | White | 10/20/2019 | | |
| R White | | Y-102-07 | Will add at 90% | | 3 | | | | |
| TAKEMOTOMW | | Y-102-07 | There does not appear to be any general language in the specifications describing what is required for "Abandoned" piping or facilities. Will add language to the demolition spec at 90% to describe abandoned item requirements. | | 3 | Chandler | 12/6/2019 | | |
| Sam Chandler | | Y-102-07 | GMP Assumption: See QRF list for additional comments on abandoned pipes. No additional scope requirements. | | 3 | | | | |
| DG | | Y-102-07 | "EXST 84" RS PIPE SECTION" to be ... | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | | Y-102-07 | will add | | 3 | | | | |
| TAKEMOTOMW | | Y-102-07 | Not clear what the new 84" RS pipe segment is connecting to. Exst 96" RS on one side but no connection shown on the other. | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | | Y-102-07 | Will add vault at 90%. Facility drawing contains details of connection. | | 3 | | | | |
| TAKEMOTOMW | | Y-102-07 | Should these notes be on CX-102-05 instead? | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | | Y-102-07 | Yes. | | 3 | | | | |
| DG | | Y-102-07 | | | 3 | | 10/20/2019 | | |
| kmaestri | | Y-102-07 | no response | | 3 | | | | |
| DG | | Y-102-07 | why are we calling out the Diesel Tanks? Suggest turning on names for all the buildings instead of random ones and shade back the names as required. | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | | Y-102-07 | will review and clean up. | | 3 | | | | |
| TAKEMOTOMW | | Y-103-07 | Its not clear what portion of the existing 12" SD is being demolished or abandoned. No work on the existing 12" SD is shown on CX-103-05. | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | | Y-103-07 | Will update CX-103-05 with demo limits of storm pipe and catch basins. | | 3 | | | | |
| DG | | Y-103-07 | Critical crossing, suggest showing an enlarged plan on a different page | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | | Y-103-07 | Additional details to be added at 90% | | 3 | | | | |
| TAKEMOTOMW | | Y-103-07 | Are the two curb inlet CBs replacing existing CBs? If so, indicate the existing CBs to be demolished. None are shown on CX-10305. | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | | Y-103-07 | Will update CX-103-05 with demo limits of storm pipe and catch basins. | | 3 | | | | |
| DG | | Y-103-07 | Show existing Santa Clara line and new tie-off point | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | | Y-103-07 | will coordinate | | 3 | | | | |
| TAKEMOTOMW | | Y-103-07 | Existing 48" FM on this side not shown. | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | | Y-103-07 | will review and correct | | 3 | | | | |
| TAKEMOTOMW | | Y-103-07 | 6" RW does not appear to connect to anything on this side | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | | Y-103-07 | will correct | | 3 | | | | |
| TAKEMOTOMW | | Y-103-07 | Provide detail for buried valve installation. Per meeting on 10/22 valves are being removed from design. | | 3 | White | 12/6/2019 | | |
| R White | | Y-103-07 | GMP Assumption: This pipeline deleted from scope. | | 3 | | | | |
| MBritten | | Y-103-07 | Check weight of this structure and potential for differential settlement, dragging down existing utilities below. | | 3 | Davis | 10/20/2019 | | |
| pdavis1 | | Y-103-07 | will check for settlement of structure/utilities | | 3 | | | | |
| DG | | Y-103-07 | what are these? Doesn't correspond to what is shown on drawing (TYP) | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | | Y-103-07 | Paving limits for asphalt restoration at 96" RS crossing. Will remove at 90% | | 3 | | | | |
| TAKEMOTOMW | | Y-104-07 | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | | Y-104-07 | no comment | | 3 | | | | |
| TAKEMOTOMW | | Y-104-07 | Indicate to what extent, if any, the existing 66" RS will need to be removed. 66" RS will be removed inside new manhole after manhole is sealed to pipe on the east side. 66" RS will be removed to 5' outside of the west side of new manhole. Demo limits for 66" pipe will be added to 90% drawings. | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | | Y-104-07 | | | 3 | | | | |
| DG | | Y-104-07 | I'm not sure we can demo perfectly functional sunk infrastructure carrying influent from a tributary agency without adequate justification. This needs further discussion. | | 3 | White | 10/20/2019 | | |
| R White | | Y-104-07 | Per meeting on 10/22 Milpitas FMs will be connected outside of the Milpitas Structure and a new connection to the EBOS will be made. | | 3 | | | | |

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| | Page Label | Comments (in gray rows) | Responses (in white rows) | Commenter | Category | Assigned Responder | Date Answered | Backchecked | |
| TAKEMOTOMW | Y-104-07 | G-080-01 shows the South Milpitas FM being re-routed to the Pie structure. This sheet shows the South Milpitas FM being abandoned without any re-routing. Please clarify. | | | 2 | White | 10/20/2019 | | |
| R White | Y-104-07 | Per meeting on 10/22 Milpitas FMs will be connected outside of the Milpitas Structure and a new connection to the EBOS will be made | | | 3 | | | | |
| DG | Y-105-07 | call out mitered elbow dimensions | | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | Y-105-07 | Fittings are per ASTM requirements and represent steel pipe "bends" not mitered fittings. | | | 3 | | | | |
| TAKEMOTOMW | Y-105-07 | Add detail for buried valve. | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | Y-105-07 | ok | | | 3 | | | | |
| DG | Y-105-07 | Add gate operator detail (typ) | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | Y-105-07 | will consider | | | 3 | | | | |
| DG | Y-105-07 | close bounding box | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | Y-105-07 | ok | | | 3 | | | | |
| TAKEMOTOMW | Y-106-07 | | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | Y-106-07 | no comment | | | 3 | | | | |
| DG | Y-106-07 | Plan tap into RW line in case of 3W outage. Discuss with City | | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | Y-106-07 | WTR3 piping loop at HW3 should be labeled RW/WTR3. Connection to RW system provided west of Grit Basins. | | | 3 | | | | |
| TAKEMOTOMW | Y-106-07 | Not sure what this line is? | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | Y-106-07 | Leftover linework from old facility configuration, will remove on 90% drawings. | | | 3 | | | | |
| TAKEMOTOMW | Y-106-07 | Grit cleanout would likely be better located in line with the long 16" GR/OF pipe run. | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | Y-106-07 | Additional cleanouts will be provided at upstream bends at 90% | | | 3 | | | | |
| TAKEMOTOMW | Y-106-07 | Not clear what is being shown in the odor control area. Is there a canopy? If so that is not shown on the odor control sheets. | | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | Y-106-07 | No canopy. Linework will be updated to reflect current configuration of equipment. | | | 3 | | | | |
| DG | Y-106-07 | This drawing is very congested. Add new drawing showing water system for HW3, flow and pressure requirements, connection extents/taps and locations, and uses for each water system.. Also show existing and new water pipe materials and insert the demands table previously provided to Jacobs as design criteria for fire dept review. | | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | Y-106-07 | This is a yard piping drawing and is not where a design requirement like this would be shown. Additional discussion required to confirm what is required to be shown. | | | 3 | | | | |
| TAKEMOTOMW | Y-106-07 | Not sure what this line is for. | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | Y-106-07 | will confirm | | | 3 | | | | |
| TAKEMOTOMW | Y-106-07 | Label pipe and hydrant. | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | Y-106-07 | will add | | | 3 | | | | |
| TAKEMOTOMW | Y-106-07 | Indicate fluid service 12" RW. | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | Y-106-07 | ok | | | 3 | | | | |
| TAKEMOTOMW | Y-106-07 | Not clear what this short pipe segment is. | | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | Y-106-07 | Piping connections to be completed at 90%. | | | 3 | | | | |
| DG | Y-106-07 | Is 1W used for the pump flushing? Is pressure adequate in the 1W lines? | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | Y-106-07 | 1W can be used for flushing water for seals if 50 PSI available. Current design uses RW/WTR3 for flushing. | | | 3 | | | | |
| TAKEMOTOMW | Y-106-07 | Not sure why fittings on this pipe are called out on this sheet, but not on other sheets | | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | Y-106-07 | Fittings and valves will be added to coordinate tables on all yard piping drawings. | | | 3 | | | | |
| TAKEMOTOMW | Y-106-07 | Is the cleanout intended to be on the 12" RW/WTR line? | | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | Y-106-07 | No, label will be moved to cleanout on 16" GR/OF pipe. | | | 3 | | | | |
| TAKEMOTOMW | Y-106-07 | 2" WTR4? | | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | Y-106-07 | No, it should be shown connecting to RW/WTR3/ piping. | | | 3 | | | | |
| TAKEMOTOMW | Y-106-07 | 12" RW/WTR3 | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | Y-106-07 | will call out | | | 3 | | | | |
| TAKEMOTOMW | Y-106-07 | Consider a cleanout here. | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | Y-106-07 | will consider | | | 3 | | | | |
| DG | Y-106-07 | Change naming convention of water system to match FWWS Project. Should be 1W, 2W, 3W and 4W. | | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | Y-106-07 | Will update labels at 90%. | | | 3 | | | | |
| DG | Y-106-07 | Add BFPs to 1W and 4W | | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | Y-106-07 | 1W BFP will coordinated with facility plumbing. 4W is fire hydrant water and does not require additional BFPs. | | | 3 | | | | |
| TAKEMOTOMW | Y-106-07 | 12" SD | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | Y-106-07 | will confirm | | | 3 | | | | |
| TAKEMOTOMW | Y-106-07 | 12" RW/WTR3 | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | Y-106-07 | will add | | | 3 | | | | |
| TAKEMOTOMW | Y-106-07 | Are there two gate valves here? Is a valve necessary given there is one on the downstream side of the backflow assembly? | | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | Y-106-07 | No, leader should be point to valves either side of the backflow preventer | | | 3 | | | | |
| TAKEMOTOMW | Y-106-07 | 12" RW/WTR3 | | | 3 | Chandler | 10/20/2019 | | |

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| kmaestri | Y-106-07 | will add | | | 3 | | | | |
| TAKEMOTOMW | Y-106-07 | 1-1/2" RW/WTR3 | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | Y-106-07 | will call out | | | 3 | | | | |
| TAKEMOTOMW | Y-106-07 | Indicate fluid service 16" RW. | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | Y-106-07 | ok | | | 3 | | | | |
| TAKEMOTOMW | Y-106-07 | D-100-14WS3IS shows the 42 "RS connecting next to the 108" R5 | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | Y-106-07 | will coordinate | | | 3 | | | | |
| TAKEMOTOMW | Y-106-07 | Confirm the valves on the 12" RW connection and backflow preventer are tagged and included in the valve schedule | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | Y-106-07 | 12" WTR3/RW and 12" WTR3 valves not included in valve schedule. Will add to schedule for 90%. | | | 3 | | | | |
| TAKEMOTOMW | Y-107-07 | Confirm installation meets separation requirements between potable and RW pipelines. | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | Y-107-07 | will do | | | 3 | | | | |
| TAKEMOTOMW | Y-107-07 | Arrow leaders not at correct location. | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | Y-107-07 | will fix | | | 3 | | | | |
| TAKEMOTOMW | Y-107-07 | Confirm no flexible joint is required here similar to other large diameter pipe connections at structures. | | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | Y-107-07 | Confirmed. | | | 3 | | | | |
| TAKEMOTOMW | Y-107-07 | 12" D? | | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | Y-107-07 | 12" SP, will add label | | | 3 | | | | |
| TAKEMOTOMW | Y-107-07 | Label | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | Y-107-07 | will do | | | 3 | | | | |
| TAKEMOTOMW | Y-107-07 | Label | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | Y-107-07 | will do | | | 3 | | | | |
| TAKEMOTOMW | Y-107-07 | Key note seems misplaced. | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | Y-107-07 | will review | | | 3 | | | | |
| TAKEMOTOMW | Y-107-07 | Existing? New? | | | 3 | Chandler | 10/20/2019 | | |
| Sam Chandler | Y-107-07 | Label to be deleted, F/H now located adjacent to Vactor Truck Facility | | | 3 | | | | |
| TAKEMOTOMW | Y-107-07 | Lineweight error? | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | Y-107-07 | will fix | | | 3 | | | | |
| TAKEMOTOMW | Y-107-07 | Connection details? | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | Y-107-07 | will add in 90% | | | 3 | | | | |
| TAKEMOTOMW | Y-107-07 | 3/4" FC. Length of pipe does not match D-110-14A. | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | Y-107-07 | will coordinate | | | 3 | | | | |
| TAKEMOTOMW | Y-111-07 | Confirm demolition of this portion of pipe is needed. | | | 3 | White | 10/20/2019 | | |
| R White | Y-111-07 | Will update. | | | 3 | | | | |
| dbpeters | Y-111-07 | Relabel as North Meter Vault | | | 3 | White | 10/20/2019 | | |
| R White | Y-111-07 | Will do. | | | 3 | | | | |
| dbpeters | Y-111-07 | Relabel as South Meter Vault | | | 3 | White | 10/20/2019 | | |
| R White | Y-111-07 | Will do. | | | 3 | | | | |
| TAKEMOTOMW | Y-111-07 | Confirm leader is point to the right location. | | | 3 | White | 10/20/2019 | | |
| R White | Y-111-07 | Will correct. | | | 3 | | | | |
| TAKEMOTOMW | Y-111-07 | Correct hatch to clarify pipe flange should not be demolished. | | | 3 | White | 10/20/2019 | | |
| R White | Y-111-07 | Will correct. | | | 3 | | | | |
| DG | Y-112-07 | Add a sheet note regarding the different nomenclature for the same vaults | | | 3 | White | 10/20/2019 | | |
| R White | Y-112-07 | Will update nomenclature to North/South Meter Vaults | | | 3 | | | | |
| TAKEMOTOMW | Y-112-07 | Flange on this side is existing. | | | 3 | White | 10/20/2019 | | |
| R White | Y-112-07 | New flange is needed to add butterfly valve. | | | 3 | | | | |
| TAKEMOTOMW | Y-112-07 | Are these the existing spool pieces and FCAs that are being reused? | | | 3 | White | 10/20/2019 | | |
| R White | Y-112-07 | Will add note to reuse if in good condition. | | | 3 | | | | |
| DG | Y-112-07 | Is there enough room here to install a valve and meet straight run requirements? | | | 3 | White | 10/20/2019 | | |
| R White | Y-112-07 | No straight pipe length is needed on downstream. Dimension will be specified so that valve does not protrude into pipe of detector. | | | 3 | | | | |
| dbpeters | Y-112-07 | West MV should be called North MV East MW should be called South MV Change Sheet title to c | | | 3 | White | 10/20/2019 | | |
| R White | Y-112-07 | Will update. | | | 3 | | | | |
| DG | Y-301-07 | call out elevations (typ) | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | Y-301-07 | Not standard to call out elevations of pipe crossings on profiles - see 2005 project drawing set | | | 3 | | | | |
| TAKEMOTOMW | Y-301-07 | ? | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | Y-301-07 | no comment | | | 3 | | | | |
| TAKEMOTOMW | Y-301-07 | Detail? | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | Y-301-07 | will address in 90% | | | 3 | | | | |
| TAKEMOTOMW | Y-301-07 | ? | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | Y-301-07 | no comment | | | 3 | | | | |
| TAKEMOTOMW | Y-301-07 | Resolve apparent conflict. | | | 3 | Chandler | 10/20/2019 | | |
| kmaestri | Y-301-07 | will resolve | | | 3 | | | | |

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| TAKEMOTOMW | Y-301-07 | ? | | | 3 | Chandler | 10/20/2019 | | | |
| kmaestri | Y-301-07 | no comment | | | 3 | | | | | |
| DG | Y-302-07 | Why are the pipes sized bigger than those at HW2 for more or less the same amount of flow? Can these pipe sizes be optimized? | | | 3 | Youker | 10/20/2019 | | | |
| | | 1) Flows to HW3 could be as large as 260 MGD. Flow to HW2 was designed for 160 MGD with 2 trains operating. So flow to HW3 is much larger than HW2. 2) EBOS to Screen: 108" has been optimized and is smaller than pipe to HW2, even with larger flows. 3) Screen to Raw Sewage PS: 120" was evaluated but we were concerned with flow entering into wetwell at higher velocity 120" is same size feeding HW2, at higher potential flow. Pipes to HW2 are 120-inch. These are sized smaller. | | | 3 | | | | | |
| Bryan Youker | Y-302-07 | | | | 3 | | | | | |
| DG | Y-303-07 | Indicate SC pipe in title | | | 3 | Chandler | 10/20/2019 | | | |
| kmaestri | Y-303-07 | ok | | | 3 | | | | | |
| DG | Y-303-07 | Call out pipe | | | 3 | Chandler | 10/20/2019 | | | |
| kmaestri | Y-303-07 | ok | | | 3 | | | | | |
| DG | Y-303-07 | Appears encasement on top of 11x11, add general note specifying minimum distance between the two structures. | | | 3 | Chandler | 10/20/2019 | | | |
| kmaestri | Y-303-07 | ok | | | 3 | | | | | |
| TAKEMOTOMW | Y-303-07 | Resolve apparent conflict. | | | 3 | Chandler | 10/20/2019 | | | |
| kmaestri | Y-303-07 | ok | | | 3 | | | | | |
| TAKEMOTOMW | Y-303-07 | Resolve apparent conflict. | | | 3 | Chandler | 10/20/2019 | | | |
| kmaestri | Y-303-07 | ok | | | 3 | | | | | |
| DG | Y-303-07 | Is 84" RS Pipe shown in right location, doesnt look right compared to Sheet 99. Call out overflow weir WSELs, pipe invert WSELs | | | 3 | Chandler | 10/20/2019 | | | |
| Sam Chandler | Y-303-07 | Reference to drawing Y-501-07 will be added. WSELs can be added to that drawing | | | 3 | | | | | |
| DG | Y-303-07 | Also refer Y-501-07 | | | 3 | Chandler | 10/20/2019 | | | |
| kmaestri | Y-303-07 | will confirm and correct | | | 3 | | | | | |
| DG | Y-303-07 | call out invert. also, why is pipe oval? | | | 3 | Chandler | 10/20/2019 | | | |
| | | Separation will be noted on 90% drawings. Pipe is oval because the two pipes don't cross at 90 degrees. | | | 3 | | | | | |
| DG | Y-304-07 | PD Pipe, not just storm? | | | 3 | Chandler | 10/20/2019 | | | |
| Sam Chandler | Y-304-07 | Correct, will update to include PD. | | | 3 | | | | | |
| TAKEMOTOMW | Y-304-07 | Resolve apparent conflict. | | | 3 | Chandler | 10/20/2019 | | | |
| kmaestri | Y-304-07 | ok | | | 3 | | | | | |
| DG | Y-304-07 | not called out on plan sheet | | | 3 | Chandler | 10/20/2019 | | | |
| kmaestri | Y-304-07 | will coordinate | | | 3 | | | | | |
| TAKEMOTOMW | Y-304-07 | Resolve apparent conflict. | | | 3 | Chandler | 10/20/2019 | | | |
| kmaestri | Y-304-07 | ok | | | 3 | | | | | |
| TAKEMOTOMW | Y-304-07 | Resolve apparent conflict. | | | 3 | Chandler | 10/20/2019 | | | |
| kmaestri | Y-304-07 | ok | | | 3 | | | | | |
| TAKEMOTOMW | Y-501-07 | How will this box be placed and connected to the existing 84" RS. Additional details needed. The box will be cast-in-place over the 84" piping and the pipe inside the box will be cut out and removed. Further detail will be added to the design. | | | 3 | Edwards | 10/20/2019 | | | |
| dedwards | Y-501-07 | | | | 3 | | | | | |
| TAKEMOTOMW | Y-501-07 | Profile on Y-303-07 indicates the invert of the 84" RS is above the invert of the 48" WBW. Confirm. | | | 3 | Edwards | 10/20/2019 | | | |
| dedwards | Y-501-07 | Will confirm the piping invert elevations and update as required. | | | 3 | | | | | |
| DG | Y-502-07 | Is this pipe for a future EBOS connection? Ensure this is sized correctly assuming the EBOS is enclosed. | | | 3 | Cowden | 10/20/2019 | | | |
| scowden | Y-502-07 | Yes...this is for a future EBOS connection. It has been appropriately sized. | | | 3 | | | | | |
| TAKEMOTOMW | Y-502-07 | Consider replacing with a tee to facilitate cleaning. | | | 3 | Cowden | 10/20/2019 | | | |
| scowden | Y-502-07 | A cleanout tee will be provided. | | | 3 | | | | | |
| TAKEMOTOMW | Y-502-07 | Consider replacing with a tee and eliminating the clean out just down stream. | | | 3 | Cowden | 10/20/2019 | | | |
| scowden | Y-502-07 | A cleanout tee will be provided. | | | 3 | | | | | |
| TAKEMOTOMW | Y-502-07 | Fluid on this side is just RW. | | | 3 | Chandler | 10/20/2019 | | | |
| kmaestri | Y-502-07 | will resolve | | | 3 | | | | | |
| dbpeters | Y-502-07 | Call out as connection for future EBOS so it can be identified when needed. Will it be marked somehow to make finding it easier in the future? Will explore this at 90%. | | | 3 | Chandler | 12/6/2019 | | | |
| Sam Chandler | Y-502-07 | GMP Assumption: Include additional valve for future connection. | | | 3 | | | | | \$ 5,000 |
| Volume 5 | | | | | | | | | | |
| TAKEMOTOMW | 3123-916 | Geotech report indicates 6" min and does not list a smaller depth for appurtenance piping | | | 3 | Michaud | 10/20/2019 | | | |
| pdavis1 | 3123-916 | will coordinate with geotech design report to be consistent with detail | | | 3 | | | | | |
| DG | Cover | City questions why the standard details not part of the drawings (General sheets) for easy reference? | | | 3 | Maestri | 10/20/2019 | | | |

| Author (in gray rows) Responder (in white rows) | | | | | | | | | Direct Costs (Appropriate markups addressed in the Cost Model by company) |
|--|--|---|-----------|----------|--------------------|---------------|-------------|--|--|
| Page Label | Comments (in gray rows) | Responses (in white rows) | Commenter | Category | Assigned Responder | Date Answered | Backchecked | | |
| kmaestri | Cover | This is our standard delivery approach, which was accepted on Cogen and is being used here. If this is not acceptable then we will need to add some additional \$\$ to the GMP to change our design approach. | | 3 | | | | | |
| Design Criteria | | | | | | | | | |
| DG | | 1 /Jacobs | | 3 | Maestri | 10/20/2019 | | | |
| KandiMaestri | | 1 acknowledged | | 3 | | | | | |
| DG | | This is the only written document after the PDR, change subject line to be more descriptive | | | | | | | |
| DG | | 1 "Memorandum describing Summary of Design Changes since the 30% Design Submittal" | | 3 | Maestri | 10/20/2019 | | | |
| KandiMaestri | | 1 acknowledged | | 3 | | | | | |
| DG | | 1 Address to Kapil Verma, City of San Jose | | 3 | Maestri | 10/20/2019 | | | |
| KandiMaestri | | 1 acknowledged. | | 3 | | | | | |
| DG | | 1 /Jacobs | | 3 | Maestri | 10/20/2019 | | | |
| KandiMaestri | | 1 acknowledged | | 3 | | | | | |
| DG | | 2 The City has confirmed the DCU numbers to be DCU50 and DCU51. | | 3 | Michaud | 10/20/2019 | | | |
| ttom | | 2 Will implement in 90% | | 3 | | | | | |
| DG | | 2 Four VOIP data outlets are required. | | 3 | Michaud | 10/20/2019 | | | |
| ttom | | 2 Will include | | 3 | | | | | |
| DG | | All information relevant to the drain reroutes have been provided to Jacobs. Darren Edwards to perform field inspection when on site 9/25 and 9/26. | | 3 | Edwards | 10/20/2019 | | | |
| dedwards | | 3 Required remaining data was verified by D. Edwards during Sept. site visit. | | 3 | | | | | |
| DG | | a 42" RS pipe is inadequate to recirculate 105MGD stated during one of the testing and commissioning meetings, please verify sizing. | | 3 | Youker | 10/20/2019 | | | |
| Bryan Youker | | Per 10/22 meeting this pipe is not needed by O&M. Jacobs to determine flow needed for startup and commissioning and develop the most cost effective approach to providing this loop. | | 3 | | | | | |
| DG | | What would be a potential future use of the pipe other than for flow diversion for relief? Is it possible to install a temporary piping system for recirculation? | | 3 | Youker | 10/20/2019 | | | |
| Bryan Youker | | No known purpose. Potential to route large pipe on top of berm during testing. But it would block access. Will discuss internally. | | 3 | | | | | |
| DG | | The magmeters, FCVs, drain pumps and sump pumps should be in alignment with the Automation Guidelines and be monitored by the DCU. | | 3 | Foley | 10/20/2019 | | | |
| KandiMaestri | | This was discussed on 10/22 and it was confirmed they do not need to be brought in line with the automation guidelines if equipment is being replaced in kind or functionality is not changing. No change in scope. | | 3 | | | | | |
| DG | | Various options to eliminate foreign sources of power for HW2 are being discussed internally. | | 3 | Michaud | 10/20/2019 | | | |
| KandiMaestri | | 3 Design direction will be given to Jacobs prior to 10/9. | | 3 | | | | | |
| DG | | 3 Work is not to be included in this project per email from Dilip on 10/18/2019 | | 3 | | | | | |
| DG | | Do we know what additional SOPs would help eliminate the valves? Please list here, City will consider. | | 3 | Youker | 10/20/2019 | | | |
| Bryan Youker | | These valves would not be need to treat 396 mgd. Other flow management strategies... store water in collection, divert to EOB, improve collection system by bringing in Interceptor 1 to EBOS at 4 spare pipe location, etc. | | 3 | | | | | |
| DG | | 4 Quantify the "extremely high flow conditions" in mgd. | | 3 | Youker | 10/20/2019 | | | |
| Bryan Youker | | 4 Described in subsequent sentences. | | 3 | | | | | |
| DG | | A decision to remove this VE item needs to take into consideration the performance criteria required by the City. If the City is not worried about a large error range at the HW, it might make sense to go with the VE recommendations. Can Jacobs provide the cost savings for the removal of 4 the magmeters and spool pieces? Needs further discussion @ review meeting in October. | | 3 | Foley | 10/20/2019 | | | |
| KandiMaestri | | 4 Per 10/22 the removal of these meters is not being considered at this time. | | 3 | Youker | | | | |
| DG | Attachment E: WTR3 Loop with RW Tie-in | See comment on drawings where the City has requested separate drawing showing the water system loop and design criteria | | 3 | | 10/20/2019 | | | |
| RW057495 | Attachment E: WTR3 Loop with RW Tie-in | Noted | | 3 | | | | | |

Back-Checked & Approved Printout

Jacobs:
Information in the Status column and Comments column that are dated post 12/6/2019 were provided by the City on 2/12/2020. Jacobs did not include analysis of these comments nor did Jacobs include cost adjustments for these items, within the GMP offer letter dated 12/6/2019 and later accepted by the City.

These comments will be reviewed and adjudicated as the project advances from 60% Design to 90% Design.

| Subject | Page Label | Status | Author | Date | Comments | Assigned Responder |
|-----------------------|------------|--|--------------|------------------|--|--------------------|
| Cloud Callout | G-002-01 | | DG | 10/11/2019 14:30 | Where are grading plans 1,2 and 4? | Chandler |
| Re: Cloud Callout | G-002-01 | | Sam Chandler | 10/18/2019 8:38 | Grading plans 1, 2, and 4 are not used. | |
| Re: Re: Cloud Callout | G-002-01 | | DG | 2/12/2020 12:00 | Are you renumbering drawings? | |
| Cloud Callout | G-004-01 | Accepted set by jwillia4 on 10/14/2019 at 11:14:04 AM | DG | 10/11/2019 14:30 | Move General Notes to the top right, follow City CAD format (TYP) | Williamson |
| Re: Cloud Callout | G-004-01 | | KandiMaestri | 10/17/2019 14:22 | ok | |
| Cloud Callout | G-010-01 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:07:44 AM | TAKEMOTOMW | 10/11/2019 14:31 | Complete callout boxes and adjust location within text. | Chandler |
| Re: Cloud Callout | G-010-01 | | Sam Chandler | 10/18/2019 8:38 | Agree | |
| Cloud Callout | G-010-01 | | DG | 10/11/2019 14:31 | I thought GIS only provided approximate pipe location elevations, not topo. - change. | Chandler |
| Re: Cloud Callout | G-010-01 | | Sam Chandler | 10/29/2019 15:01 | Will update to reflect that existing grade is based on City supplied grading information compiled for previous projects. | |
| Re: Re: Cloud Callout | G-010-01 | | DG | 2/12/2020 12:01 | ...and information from the subsurface utility investigations... | |
| Cloud Callout | G-080-01 | Accepted set by TAKEMOTOMW on 11/29/2019 at 7:09:22 PM | TAKEMOTOMW | 10/11/2019 14:34 | Yard piping drawings show re-routing of the North Milpitas Forcemain, but does not show re-routing of the South Milpitas Forcemain. Suggest maintaining the South Milpitas FM connection at the Milpitas Structure for operational flexibility. Confirm. | White |
| Re: Cloud Callout | G-080-01 | | R White | 11/26/2019 8:06 | Per meeting on 10/22 Milpitas FMs will be connected outside of the Milpitas Structure and a new connection to the EBOS will be made. | |
| Cloud Callout | G-080-01 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:09:16 AM | TAKEMOTOMW | 10/11/2019 14:35 | Coordinate depiction with work shown on Y-112-07, e.g. no reducers being added. | White |
| Re: Cloud Callout | G-080-01 | | R White | 10/14/2019 8:29 | Will coordinate. | |
| Cloud Callout | G-080-01 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:16:35 AM | TAKEMOTOMW | 10/11/2019 14:36 | Suggest showing abandoned pipes for consistency with the rest of this sheet. | White |
| Re: Cloud Callout | G-080-01 | | R White | 10/14/2019 8:34 | Will show as abandoned. | |
| Callout | G-081-01 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:24:03 AM | TAKEMOTOMW | 10/11/2019 14:37 | Based on Y-101-07 it appear there is another existing CB that tees in here. | Edwards |
| Re: Callout | G-081-01 | | dedwards | 10/14/2019 10:16 | There is another SD pipe which ties into CB61. Will add it to this diagram. | |
| Callout | G-081-01 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:24:28 AM | TAKEMOTOMW | 10/11/2019 14:37 | Storm drain schematic does not match the yard piping shown on Y-106-07. | Edwards |
| Re: Callout | G-081-01 | | R White | 10/28/2019 15:47 | Will label 15" pipe for clarity. | |
| Text Box | G-090-01 | | MBritten | 10/11/2019 14:39 | Show profile of EOB | White |
| Re: Text Box | G-090-01 | Accepted set by DG on 2/12/2020 at 12:42:56 PM | R White | 10/14/2019 8:42 | EOB is empty in these flow scenarios,. | |

| Subject | Page Label | Status | Author | Date | Comments | Assigned Responder |
|------------------------------------|----------------------|--|------------------------|--------------------------------------|---|--------------------|
| Cloud Callout Re: Cloud Callout | G-090-01 G-090-01 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:28:42 AM | TAKEMOTOMW R White | 10/11/2019 14:40 10/14/2019 8:55 | Could not find 4D on this sheet. Suggest adding a reference to Note 2. above. if that is applicable. Will correct. | White |
| Callout Re: Callout | G-090-01 G-090-01 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:29:49 AM | TAKEMOTOMW R White | 10/11/2019 14:40 10/28/2019 15:55 | Has the additional headloss through the wet well baffle wall and inlet gates openings been factored in the hydraulic profile? Assumed losses through the baffle wall are being used. Inlet losses are factored in. | White |
| Group Re: Text Box | G-090-01 G-090-01 | | MBritten R White | 10/11/2019 14:40 10/14/2019 8:57 | Show overflow structure to EOB Flow does not pass through the EOB, and is only used as temporary storage. Show max level possible at EOB and add a note on capacity (MG) and time | White |
| Re: Text Box | G-090-01 | None set by DG on 2/12/2020 at 12:43:16 PM | DG | 2/12/2020 12:40 | for overflow @ peak flow (XX mgd in XX hours) | |
| Cloud Callout Re: Cloud Callout | G-110-01 G-110-01 | | DG Bryan Youker | 10/11/2019 14:41 11/26/2019 8:06 | What use is the startup year information? Suggest only having design year info. Startup year information is useful to see the flows anticipated when testing. They can also be useful for estimating minimum flows. We can delete information if desired. Provide direction. | Youker |
| Re: Re: Cloud Callout | G-110-01 | | DG | 2/12/2020 12:19 | City will provide direction on the Design Criteria sheet. Since the specifications will not be updated at the end of the project, the drawing should have key flow and equipment information. | |
| Cloud Callout Re: Cloud Callout | R-002-05 R-002-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:30:15 AM | TAKEMOTOMW Iscoggin | 10/11/2019 14:42 10/15/2019 13:16 | No handrail needed here. Will review railing extents | Scoggins |
| Cloud Callout Re: Cloud Callout | R-002-05 R-002-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:30:41 AM | TAKEMOTOMW Iscoggin | 10/11/2019 14:42 10/15/2019 13:16 | May want to consider covering this box w/ grating. Box is intended to overflow during high flow conditions. Grating not desired | Scoggins |
| Cloud Callout Re: Cloud Callout | R-002-05 R-002-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:30:46 AM | TAKEMOTOMW Iscoggin | 10/11/2019 14:43 10/15/2019 13:17 | Handrail is likely needed here. Agree. Will review railing extents. | Scoggins |
| Callout Re: Callout | R-002-05 R-002-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:31:08 AM | TAKEMOTOMW scowden | 10/11/2019 14:43 10/23/2019 15:14 | Can this FA duct be lowered? Seems higher than necessary since there is limited/no access from this side. Large vertical supports will be required, which are not currently shown. Duct elevation will be reviewed and duct lowered if possible and depending on access requirements. | Cowden |
| Cloud Callout Re: Cloud Callout | R-002-05 R-002-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:31:48 AM | TAKEMOTOMW Iscoggin | 10/11/2019 14:43 10/15/2019 13:17 | Consider bollards to protect piping from traffic. Noted. Will discuss with Civil | Scoggins |
| Cloud Callout Re: Cloud Callout | R-003-05 R-003-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:32:11 AM | TAKEMOTOMW ttom | 10/11/2019 14:44 10/14/2019 8:16 | Consider relocating box/panel to improve O&M access between the screenings washers. Will coordinate with process/mechanical | Michaud |

| Subject | Page Label | Status | Author | Date | Comments | Assigned Responder |
|-------------------|-------------|--|--------------|------------------|--|--------------------|
| Cloud Callout | R-007-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:32:24 AM Accepted set by TAKEMOTOMW on 11/29/2019 at 9:33:16 AM | TAKEMOTOMW | 10/11/2019 14:46 | Confirm plan for resolving duct bank conflict shown. Many of these are existing duct banks and may be modified to accommodate | Michaud |
| Re: Cloud Callout | R-007-05 | | ttom | 10/14/2019 8:18 | pipe. Will be coordinated for 90% | |
| Cloud Callout | R-007-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:33:58 AM | TAKEMOTOMW | 10/11/2019 14:46 | Confirm plan for resolving duct bank conflict shown. Aware of this issue and duct banks in that area will need to be cut up to | Michaud |
| Re: Cloud Callout | R-007-05 | | ttom | 10/14/2019 8:19 | nearest manhole and rerouted to accommodate pipe crossing. | |
| Cloud Callout | R-007-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:34:13 AM | TAKEMOTOMW | 10/11/2019 14:46 | Confirm plan for resolving duct bank conflict shown. | Michaud |
| Re: Cloud Callout | R-007-05 | | ttom | 10/14/2019 8:19 | Duct banks are existing and actual depth is currently unknown, they are place holders for now and will be coordinated when more information is gathered. | |
| Callout | R-001-14HW3 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:34:26 AM | TAKEMOTOMW | 10/11/2019 14:46 | D-100-14HW3IS show the 42" RS from the grit area connecting here. Reconcile. | Youker |
| Re: Callout | R-001-14HW3 | | Bryan Youker | 10/14/2019 14:31 | Yes. Will coordinate during next phase of design. | |
| Callout | R-010-14HW3 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:34:54 AM | TAKEMOTOMW | 10/11/2019 14:48 | There will be a lot of H2S released at this location, which seem to be in a dead zone for FA flow. Confirm FA duct locations. Also do not see any air intake/makeup air connections in the grit effluen channel area. | Cowden |
| Re: Callout | R-010-14HW3 | | scowden | 10/23/2019 15:18 | An intake air opening will be provided at this far end of the channel to avoid a "dead zone". | |
| Callout | C-003-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:35:08 AM | TAKEMOTOMW | 10/11/2019 14:49 | There are 3 types of dashed lines used on this sheet, but only one shown in the legend. Its not clear what the distinction is amongst the three. | Chandler |
| Re: Callout | C-003-05 | | Sam Chandler | 10/18/2019 8:48 | Will add missing line types to legend. | |
| Cloud Callout | C-003-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:35:36 AM | TAKEMOTOMW | 10/11/2019 14:49 | Seems like the single lane over the drainage culvert could be a traffic bottleneck. Adding a secondary construction access point on the east side (e.g. from Los Esteros Rd) may be beneficial if available. Also consider requiring a temporary pedestrian boardwalk or similar, adjacent to vehicle culvert crossing for safety. | Chandler |
| Re: Cloud Callout | C-003-05 | | Sam Chandler | 10/25/2019 9:05 | Per meeting with client 10/22, Jacobs is not required to provide widening of the bridge or pedestrian improvements. | |
| Callout | C-003-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:36:05 AM | TAKEMOTOMW | 10/11/2019 14:49 | Contractor access arrow only points toward Zanker Road. It the intent that this would be used as an exist only? All other access arrows point both directions. | Chandler |
| Re: Callout | C-003-05 | | Sam Chandler | 10/18/2019 8:51 | Will add arrows pointing both directions. Zanker Road is primary entrance/exit for construction traffic. | |
| Callout | C-003-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:36:22 AM | TAKEMOTOMW | 10/11/2019 14:49 | Work limits extended off the left side of the page and are not shown on the other Staging drawing. | Chandler |
| Re: Callout | C-003-05 | | Sam Chandler | 10/18/2019 8:52 | Will adjust drawing limits to show full work area. | |

| Subject | Page Label | Status | Author | Date | Comments | Assigned Responder |
|---|----------------------------------|--|--------------------------------|---|---|--------------------|
| Cloud Callout Re: Cloud Callout Re: Re: Cloud Callout | C-003-05 C-003-05 C-003-05 | | DG kmaestri DG | 10/11/2019 14:49 11/8/2019 9:25 2/12/2020 12:23 | will consider renaming Need to discuss sheet naming, in general. | -1 Chandler |
| Callout Re: Callout | C-003-05 C-003-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:36:43 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 14:49 10/29/2019 15:04 | Structure ID for Headworks 1 should be 1HW1 in the legend. Will verify with City staff and update | Chandler |
| Callout Re: Callout | C-004-05 C-004-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:36:53 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 14:50 10/18/2019 8:52 | Should the Construction Trailer Area be shown within the Contractor work limits? Yes, will update. | Chandler |
| Callout Re: Callout | C-004-05 C-004-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:39:08 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 14:50 10/18/2019 8:54 | What is the distinction between the 15 acre soil disposal area and the 40 acre soil disposal area? Are there any requirements for what can or can't be stored or disposed here? Any requires for the finished condition of these areas at the end of construction? The 15-acre disposal area is where the HW3 project intends to place soil within the 40-acre area identified by the City for soil disposal. Post construction, the soil added to the 15-acre area will be spread to a maximum of 1' thickness. | Chandler |
| Callout Re: Callout | C-100-05 C-100-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:39:24 AM | TAKEMOTOMW kmaestri | 10/11/2019 14:50 11/8/2019 9:26 | Lane not shown in the background will coordinate | Chandler |
| Callout Re: Callout | C-100-05 C-100-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:39:34 AM | TAKEMOTOMW kmaestri | 10/11/2019 14:50 11/8/2019 9:26 | CG-103-05 will fix | Chandler |
| Callout Re: Callout | CE-101-05 CE-101-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:40:02 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 14:50 10/29/2019 15:06 | Not clear what the purpose of this arrow is. Are BMPs needed in this drainage area? Arrows will be updated to reflect drainage patterns within the project work limits. | Chandler |
| Text Re: Text | CE-101-05 CE-101-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:40:19 AM | TAKEMOTOMW kmaestri | 10/11/2019 14:50 11/8/2019 9:36 | Suggest adding the work limits to this sheet to help clarify areas where BMPs will be needed. will consider | Chandler |
| Callout Re: Callout | CE-101-05 CE-101-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:40:47 AM | TAKEMOTOMW kmaestri | 10/11/2019 14:50 11/8/2019 9:36 | Key note is not pointing to anything specific. Refers to pipe trench, but none shown. will fix | Chandler |
| Callout Re: Callout | CE-101-05 CE-101-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:41:04 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 14:50 10/29/2019 15:06 | Runoff from top of structure? Yes, parts of the structure runoff to surrounding paving. | Chandler |
| Callout Re: Callout | CE-101-05 CE-101-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:41:13 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 14:50 10/29/2019 15:07 | These arrows are pointing to an area with not BMPs shown. Will update and provide BMPs where appropriate. | Chandler |

| Subject | Page Label | Status | Author | Date | Comments | Assigned Responder |
|------------------------|------------------------|--|----------------------------|--------------------------------------|--|--------------------|
| Callout Re: Callout | CE-101-05 CE-101-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:41:20 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 14:50 10/29/2019 15:08 | Linework not defined/ labeled, typ. Will add labels or add to legend at 90%. | Chandler |
| Callout Re: Callout | CE-102-05 CE-102-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:41:35 AM | TAKEMOTOMW kmaestri | 10/11/2019 14:51 11/8/2019 9:37 | Fix leader ok | Chandler |
| Callout Re: Callout | CE-102-05 CE-102-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:44:35 AM | TAKEMOTOMW kmaestri | 10/11/2019 14:51 11/8/2019 9:39 | Fix leader ok | Chandler |
| Callout Re: Callout | CE-102-05 CE-102-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:44:54 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 14:51 10/29/2019 15:12 | Not clear what TC-1 means. TC-1 will be replaced by callout to Keynote 5, which defines TC-1. | Chandler |
| Group Re: Group | CE-103-05 CE-103-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:45:14 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 14:51 10/29/2019 15:20 | Callouts needed for SWPPP control measures needed in this area? Yes, will update. | Chandler |
| Callout Re: Callout | CX-100-05 CX-100-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:50:51 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 14:53 10/29/2019 15:27 | Suggest adding coordinates or other means of determining the extent of demolition. Demolition area plans will be updated to define limits of demo work at 90%. | Chandler |
| Callout Re: Callout | CX-102-05 CX-102-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:52:35 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 14:55 10/29/2019 9:53 | Label pipeline Will do. | Chandler |
| Callout Re: Callout | CX-103-05 CX-103-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:52:52 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:00 10/29/2019 15:28 | Not clear if the dashed line means anything. Any pipes being demolished or abandoned should be labeled. Will update linework and labels | Chandler |
| Callout Re: Callout | CX-104-05 CX-104-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:54:29 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:01 11/8/2019 9:55 | Existing pipe linework is missing. this is being updated for 90% | Chandler |
| Callout Re: Callout | CX-106-05 CX-106-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:54:35 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:02 11/8/2019 9:56 | Define limit of demolition will do | Chandler |
| Callout Re: Callout | CX-107-05 CX-107-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:54:52 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:02 11/8/2019 9:57 | Not clear what facility is being referred to or the work required to demolish it. will clarify in 90% | Chandler |
| Callout | CX-107-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:55:55 AM | TAKEMOTOMW | 10/11/2019 15:02 | Not clear what this line work is. | Chandler |

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| Re: Callout | CX-107-05 | | Sam Chandler | 10/29/2019 15:30 | Linework displaying incorrectly, will fix at 90%. Existing piping to remain. | |
| Callout Re: Callout | CX-107-05 CX-107-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:56:11 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:02 10/29/2019 9:55 | Label Will do. | Chandler |
| Callout Re: Callout | C-101-05 C-101-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:56:17 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:02 10/29/2019 15:31 | Table needs to be completed. Agree, coordinate tables will be populated at 90%. | Chandler |
| Callout Re: Callout | C-103-05 C-103-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:56:27 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:02 11/8/2019 9:27 | Table needs to be completed. yes will do at 90% design | Chandler |
| Callout Re: Callout | C-104-05 C-104-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:58:33 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:03 11/26/2019 8:04 | If this is a concrete structure, are guard posts needed to protect it? Guard posts protect above grade piping and equipment above grade. | Chandler |
| Callout Re: Callout | C-104-05 C-104-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:58:49 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:03 10/29/2019 15:32 | Why 4' spacing on one side and 3' spacing on the other? Bollards have 4' spacing center to center and are offset from the vault by 3'. Will revise dimension locations to clarify. | Chandler |
| Callout Re: Callout | C-104-05 C-104-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:59:21 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:03 11/8/2019 9:28 | What is the clearance requirement between the guard posts and the structure or piping? per previous response they will be offset by 3' | Chandler |
| Callout Re: Callout | C-104-05 C-104-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:59:39 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:03 10/29/2019 15:33 | S-110-1A is a structural drawing and does not show the required civil surface improvements required in this area. Those details need to be added. Agree, will update site plan with restoration work required by demo at Milpitas Structure. | Chandler |
| Callout Re: Callout | C-104-05 C-104-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:59:48 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:03 11/8/2019 9:27 | Complete table. to be done at 90% | Chandler |
| Callout Re: Callout | C-105-05 C-105-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:59:58 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:03 11/8/2019 9:28 | Surface restoration for the wetland area needs to be defined. will coordinate | Chandler |
| Callout Re: Callout | C-105-05 C-105-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:00:24 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:03 11/8/2019 9:29 | Need to define what surface the pavement will be meeting up against. will address in 90% design | Chandler |
| Callout Re: Callout | C-105-05 C-105-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:00:13 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:03 11/8/2019 9:29 | Need to define what surface the pavement will be meeting up against. will address in 90% design | Chandler |

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| Callout Re: Callout | C-106-05 C-106-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:01:00 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:03 10/29/2019 15:35 | Edge of existing pavement? New surface is shown as gravel. Surfacing should be shown as new pavement. | Chandler |
| Callout Re: Callout | C-106-05 C-106-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:00:39 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:03 10/29/2019 15:35 | Are the abbreviations PC and PI defined anywhere? Will update abbreviations list at beginning of plan set. | Chandler |
| Callout Re: Callout | C-106-05 C-106-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:02:29 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:03 10/25/2019 10:03 | Material needs to be defined. Gravel? Ground cover here will be asphalt. | Chandler |
| Callout Re: Callout | C-106-05 C-106-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:02:23 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:03 11/26/2019 8:04 | Material needs to be defined. Gravel? Asphalt ground cover per client's preference to not have gravel and associated weed growth/maintenance issues. | Chandler |
| Ellipse Re: Ellipse | C-106-05 C-106-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:02:03 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:04 11/8/2019 9:31 | no response needed for this one | Chandler |
| Callout Re: Callout | C-106-05 C-106-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:01:32 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:04 11/8/2019 9:30 | This is a physically separate structure from the Grit Basins. Suggest define coordinates. will coordinate with structural | Chandler |
| Callout Re: Callout | C-106-05 C-106-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:01:19 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:04 11/8/2019 9:29 | Coordinates for this edge are not defined. will add | Chandler |
| Callout Re: Callout | C-106-05 C-106-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:01:09 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:04 11/8/2019 9:29 | Leaders are not point to corner of structure. Confirm coordinates. will do | Chandler |
| Callout Re: Callout | C-107-05 C-107-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:03:41 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:04 10/25/2019 10:06 | Material needs to be defined. Gravel? Per meeting with client 10/22, existing ground cover (mostly gravel) will be maintained around Ferric Chloride. | Chandler |
| Callout Re: Callout | C-107-05 C-107-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:03:32 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:04 10/25/2019 10:06 | Material needs to be defined. Gravel? Per meeting with client 10/22, existing ground cover (mostly gravel) will be maintained around EBOS. | Chandler |
| Callout Re: Callout | C-107-05 C-107-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:03:25 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:04 10/25/2019 10:05 | Material needs to be defined. Gravel? Per meeting with client 10/22, ground cover here will be grass. | Chandler |

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| Callout Re: Callout | C-107-05 C-107-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:03:19 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:04 11/8/2019 9:33 | Coordinate needed? will review | Chandler |
| Callout Re: Callout | C-107-05 C-107-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:03:05 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:04 10/29/2019 15:39 | Is this lead meant to indicate where the fence should be relocated to? No, it is meant to indicate fencing to be relocated. Fencing location was updated to reflect changes made during the Iron Salt project and the leaders weren't moved. | Chandler |
| Callout Re: Callout | C-107-05 C-107-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:02:39 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:04 10/29/2019 15:38 | This detail is not included with the standard detail package. Detail to be added at 90% | Chandler |
| Callout Re: Callout | CG-103-05 CG-103-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:04:30 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:04 10/29/2019 15:41 | The perimeter boundary of the work area needs to be defined. Will update with coordinates. | Chandler |
| Callout Re: Callout | CG-103-05 CG-103-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:04:17 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:04 10/29/2019 15:41 | Should a ridge line be shown here? Yes | Chandler |
| Callout Re: Callout | CG-103-05 CG-103-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:04:08 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:04 10/29/2019 15:40 | Not clear what this line is? Existing edge of pavement to be restored after 96" RS pipe construction. Sawcut line missing. Will update. | Chandler |
| Callout Re: Callout | C-108-05 C-108-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:03:55 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:04 10/18/2019 21:39 | Depiction for relocated chainlink fence does not appear to be complete. Chainlink fence linework does not match what is shown in the Civil Legend drawing. Existing fence line work needs to be updated to reflect changes made with Iron Salt project. New fence will be coordinated with those updates. | Chandler |
| Callout Re: Callout | CG-106-05 CG-106-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:07:37 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:05 11/8/2019 9:41 | Elevation label missing. will add at 90% | Chandler |
| Callout Re: Callout | CG-106-05 CG-106-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:07:31 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:05 11/8/2019 9:41 | Elevation label missing. will add at 90% | Chandler |
| Callout Re: Callout | CG-106-05 CG-106-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:06:39 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:05 11/8/2019 9:41 | Structural drawing shows TO CONC at EL 9.23 on S-113-14BLDG64. Surrounding grade needs to match from ramp access. will coordinate | Chandler |
| Text | CG-105-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:06:20 AM | TAKEMOTOMW | 10/11/2019 15:05 | General note. Only a few existing contours are labeled in the background. How will cut and fill quantities be determined? | Chandler |

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| Re: Text | CG-105-05 | | Sam Chandler | 10/29/2019 15:43 | Cut and fill quantities are determined from the existing and proposed grade surface models. Additional labels for existing contours will be added. | |
| Callout Re: Callout | CG-105-05 CG-105-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:06:03 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:05 11/8/2019 9:40 | 9-foot contour line? Label. will do | Chandler |
| Callout Re: Callout | CG-105-05 CG-105-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:05:54 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:05 10/29/2019 15:43 | Is there a detail for this? Detail to be added to drawing set. | Chandler |
| Cloud Callout Re: Cloud Callout | CG-106-05 CG-106-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:10:23 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:05 11/8/2019 9:44 | This area is fairly flat. Confirm adequate drainage. will do | Chandler |
| Group Re: Callout | CG-107-05 CG-107-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:12:44 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:05 10/25/2019 11:53 | Low point. Will runoff drain to the unpaved area? Per meeting with client 10/22, additional stormwater collection and pump station will be required to collect runoff south of EBOS. | Chandler |
| Callout Re: Callout | CG-107-05 CG-107-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:12:19 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:06 11/8/2019 9:46 | Confirm spot elevations along the edge ok | Chandler |
| Callout Re: Callout | CG-107-05 CG-107-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:12:09 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:06 11/8/2019 9:46 | Label will fix | Chandler |
| Callout Re: Callout | CG-107-05 CG-107-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:12:00 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:06 11/8/2019 9:46 | Label 9 will fix | Chandler |
| Callout Re: Callout | CG-107-05 CG-107-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:11:55 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:06 11/8/2019 9:45 | 9 and 6 contour lines look the same. will review | Chandler |
| Callout Re: Callout | CG-107-05 CG-107-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:12:29 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:06 11/8/2019 9:46 | Label ok | Chandler |
| Cloud Callout Re: Cloud Callout | CG-107-05 CG-107-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:11:31 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:06 10/29/2019 15:55 | This area seems very flat. Confirm adequate drainage is provided. Per meeting with client 10/22/2019, additional stormwater collection, piping, and pump stations to be added in this area. | Chandler |
| Callout | CG-107-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:11:17 AM | TAKEMOTOMW | 10/11/2019 15:06 | This area seems like a low point. Confirm drainage in this area. | Chandler |

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| Re: Callout | CG-107-05 | | Sam Chandler | 10/29/2019 15:55 | Per meeting with client 10/22/2019, additional stormwater collection, piping, and pump stations to be added in this area. | |
| Callout Re: Callout | CG-107-05 CG-107-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:11:08 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:06 11/8/2019 9:45 | This elevation seems incorrect. will confirm | Chandler |
| Callout Re: Callout | CG-107-05 CG-107-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:11:01 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:06 10/29/2019 15:54 | This detail is not in the standard details. Detail to be added to drawing set. | Chandler |
| Callout Re: Callout | CG-107-05 CG-107-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:11:43 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:06 11/8/2019 9:45 | This edge will also be a ridge line. will review | Chandler |
| Callout Re: Callout | CG-106-05 CG-106-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:07:49 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:06 11/8/2019 9:42 | Top of wall on the EOB Feed structure is called out as EL12.0 which is lower than the ~EL 12.7 shown. will review | Chandler |
| Group Re: Callout | CG-106-05 CG-106-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:08:18 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:06 10/25/2019 10:29 | Suggest paving this area and raising the elevation to facilitate access to the front of the screening structure. Per meeting with client 10/22, grade asphalt grade will be raised at east end of the screens to match deck grade. | Chandler |
| Callout Re: Callout | CG-106-05 CG-106-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:09:42 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:06 11/8/2019 9:43 | What is the elevation along the edge of this building? will confirm | Chandler |
| Callout Re: Callout | CG-106-05 CG-106-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:09:33 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:06 11/8/2019 9:43 | Coordinate and elevation need to be called out. will add at 90% | Chandler |
| Callout Re: Callout | CG-106-05 CG-106-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:09:21 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:06 11/8/2019 9:43 | Leader pointing to wrong location. will fix | Chandler |
| Callout Re: Callout | CG-108-05 CG-108-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:13:39 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:07 11/8/2019 9:48 | Confirm elevation. The edge of pavement here seems to be a low point between two EL 6 contours. will confirm | Chandler |
| Callout Re: Callout | CG-108-05 CG-108-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:13:30 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:07 11/8/2019 9:47 | Confirm elevation. The edge of pavement here seems to be a low point between two EL 6 contours. will confirm | Chandler |
| Callout Re: Callout | CG-301-05 CG-301-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:20:14 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:07 10/18/2019 21:53 | Is this the existing 120" RS. If so its roughly 100 feet away from the edge of the headworks structure and would not show up on this sheet. Yes, this is the existing 120" RS. The existing 120" RS is roughly 40' away. Existing 84" RS is approximately 100' away. | Chandler |

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| Re: Re: Callout | CG-301-05 | | TAKEMOTOMW | 11/29/2019 10:20 | Got it. Thanks for clarifying. | |
| Callout | CG-301-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:14:48 AM | TAKEMOTOMW | 10/11/2019 15:07 | There is a 30" FA line here that is not shown. | Chandler |
| Re: Callout | CG-301-05 | | kmaestri | 11/8/2019 9:49 | will review | |
| Callout | CG-301-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:14:42 AM | TAKEMOTOMW | 10/11/2019 15:07 | Should be CG, not C. | Chandler |
| Re: Callout | CG-301-05 | | kmaestri | 11/8/2019 9:49 | will correct as needed | |
| Callout | CG-301-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:14:35 AM | TAKEMOTOMW | 10/11/2019 15:07 | Should be CG, not C. | Chandler |
| Re: Callout | CG-301-05 | | kmaestri | 11/8/2019 9:49 | will correct as needed | |
| Callout | CG-301-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:14:30 AM | TAKEMOTOMW | 10/11/2019 15:07 | Should be CG, not C. | Chandler |
| Re: Callout | CG-301-05 | | kmaestri | 11/8/2019 9:49 | will correct as needed | |
| Callout | CG-301-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:14:22 AM | TAKEMOTOMW | 10/11/2019 15:07 | Detail should refer relevant specs for subgrade preparation. | Chandler |
| Re: Callout | CG-301-05 | | Sam Chandler | 10/29/2019 16:00 | Material callout will be updated to match specs. | |
| Callout | C-501-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:22:13 AM | TAKEMOTOMW | 10/11/2019 15:07 | Consider adding a rock trap downstream on the 12" SP. Any debris that makes into the pipe will end up in EBOS and will be difficult to remove from that location. | Chandler |
| Re: Callout | C-501-05 | | Sam Chandler | 10/25/2019 13:23 | Per meeting with client 10/22, rock traps will be provided at each septage receiving pipe | |
| Text | C-501-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:22:03 AM | TAKEMOTOMW | 10/11/2019 15:07 | Additional detail dimensions and elevations need to be added to the sheet. | Chandler |
| Re: Text | C-501-05 | | kmaestri | 11/8/2019 9:34 | will add. | |
| Callout | C-501-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:20:40 AM | TAKEMOTOMW | 10/11/2019 15:08 | Will there be a grate or basket to prevent large debris from entering the pipe? | Chandler |
| Re: Callout | C-501-05 | | Sam Chandler | 10/25/2019 13:22 | Per meeting with client 10/22, rock traps will be provided at each septage receiving pipe, a dumpster provided to empty rock traps into, and washdown hose bibs. | |
| Callout | Y-100-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:22:43 AM | TAKEMOTOMW | 10/11/2019 15:08 | Pipe not labeled. | Chandler |
| Re: Callout | Y-100-07 | | kmaestri | 11/8/2019 13:36 | will add | |
| Callout | Y-100-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:22:31 AM | TAKEMOTOMW | 10/11/2019 15:08 | Suggest not showing these detail callouts on this overall site drawing, typ. | Chandler |
| Re: Callout | Y-100-07 | | Sam Chandler | 10/29/2019 16:01 | Agree, detail callouts will be moved to area plans. | |
| Callout | Y-101-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:23:06 AM | TAKEMOTOMW | 10/11/2019 15:08 | Not clear if this SD line will still be active or not. Its not being shown as abandoned or demolished, but it currently is not shown as connected to anything on one end. | Chandler |
| Re: Callout | Y-101-07 | | Sam Chandler | 10/29/2019 16:02 | Will update to show connection to new drain pipe | |

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| Callout Re: Callout | Y-101-07 Y-101-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:23:18 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:08 10/29/2019 16:02 | Confirm connection detail on how the 36"x36" tee will connect to the existing 36" pipe. Detail to be provided at 90% | Chandler |
| Callout Re: Callout | Y-101-07 Y-101-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:23:31 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:08 11/8/2019 13:36 | Consider adding a marker to facilitate locating the pipe in the future. will consider | Chandler |
| Callout Re: Callout | Y-101-07 Y-101-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:24:16 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:08 11/8/2019 13:37 | Connect to existing 8" WTR4 will review. | Chandler |
| Callout Re: Callout | Y-101-07 Y-101-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:25:19 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:09 11/8/2019 13:37 | Reducer is shown further downstream. will coordinate | Chandler |
| Callout Re: Callout | Y-102-07 Y-102-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:25:33 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:10 10/18/2019 22:09 | Not clear what the new 84" RS pipe segment is connecting to. Exst 96" RS on one side but no connection shown on the other. Will add vault at 90%. Facility drawing contains details of connection. | Chandler |
| Callout Re: Callout | Y-102-07 Y-102-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:27:57 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:10 11/26/2019 8:04 | Suggest requiring the manhole to be marked as "Abandoned" in the field. Will discuss with City how to identify abandoned manholes assuming the are to remain in the ground (per discussions about CIP requirement that nothing is "abandoned") | Chandler |
| Callout Re: Callout | Y-102-07 Y-102-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:27:38 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:10 10/29/2019 16:07 | Should these notes be on CX-102-05 instead? Yes. | Chandler |
| Callout Re: Callout | Y-102-07 Y-102-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:25:44 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:10 11/8/2019 13:39 | Not clear where this 8" PD is connecting to the existing pipe per the callout. will clarify | Chandler |
| Callout Re: Callout | Y-102-07 Y-102-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:28:44 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:11 11/26/2019 8:04 | There does not appear to be any general language in the specifications describing what is required for "Abandoned" piping or facilities. Will add language to the demolition spec at 90% to describe abandoned item requirements. | Chandler |
| Callout Re: Callout Re: Re: Callout | Y-103-07 Y-103-07 Y-103-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:28:54 AM | MBritten pdavis1 DG | 10/11/2019 15:12 10/24/2019 16:23 2/12/2020 12:45 | Check weight of this structure and potential for differential settlement, dragging down existing utilities below. will check for settlement of structure/utilities Jacobs to provide calculations, if requested. | Davis |
| Callout Re: Callout | Y-103-07 Y-103-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:28:54 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:12 11/8/2019 13:44 | Existing 48" FM on this side not shown. will review and correct | Chandler |

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| Callout Re: Callout | Y-103-07 Y-103-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:30:05 AM | TAKEMOTOMW R White | 10/11/2019 15:13 11/26/2019 8:05 | Provide detail for buried valve installation. Per meeting on 10/22 valves are being removed from design. | White |
| Callout Re: Callout | Y-103-07 Y-103-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:29:34 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:13 11/8/2019 13:45 | 6" RW does not appear to connect to anything on this side. will correct | Chandler |
| Callout Re: Callout | Y-103-07 Y-103-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:29:27 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:13 10/29/2019 16:09 | Are the two curb inlet CBs replacing existing CBs? If so, indicate the existing CBs to be demolished. None are shown on CX-10305. Will update CX-103-05 with demo limits of storm pipe and catch basins. | Chandler |
| Callout Re: Callout | Y-103-07 Y-103-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:29:14 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:13 10/29/2019 16:09 | Its not clear what portion of the existing 12" SD is being demolished or abandoned. No work on the existing 12" SD is shown on CX-103-05. Will update CX-103-05 with demo limits of storm pipe and catch basins. | Chandler |
| Callout Re: Callout | Y-104-07 Y-104-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:37:25 AM | TAKEMOTOMW R White | 10/11/2019 15:14 11/26/2019 8:05 | G-080-01 shows the South Milpitas FM being re-routed to the Pie structure. This sheet shows the South Milpitas FM being abandoned without any re- routing. Please clarify. Per meeting on 10/22 Milpitas FMs will be connected outside of the Milpitas Structure and a new connection to the EBOS will be made | White |
| Callout Re: Callout | Y-104-07 Y-104-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:38:07 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:14 11/10/2019 20:23 | Indicate to what extent, if any, the existing 66" RS will need to be removed. 66" RS will be removed inside new manhole after manhole is sealed to pipe on the east side. 66" RS will be removed to 5' outside of the west side of new manhole. Demo limits for 66" pipe will be added to 90% drawings. | Chandler |
| Group Re: PolyLine | Y-104-07 Y-104-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:39:05 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:14 11/8/2019 13:47 | no comment | Chandler |
| Callout Re: Callout | Y-105-07 Y-105-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:39:12 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:15 11/8/2019 13:48 | Add detail for buried valve. ok | Chandler |
| Callout Re: Callout | Y-106-07 Y-106-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:40:01 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:15 10/29/2019 16:15 | Is the cleanout intended to be on the 12" RW/WTR line? No, label will be moved to cleanout on 16" GR/OF pipe. | Chandler |
| Callout Re: Callout | Y-106-07 Y-106-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:39:47 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:15 11/10/2019 20:23 | Grit cleanout would likely be better located in line with the long 16" GR/OF pipe run. Additional cleanouts will be provided at upstream bends at 90% | Chandler |
| Callout Re: Callout | Y-106-07 Y-106-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:39:29 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:15 10/29/2019 16:14 | Not clear what this short pipe segment is. Piping connections to be completed at 90%. | Chandler |

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| Callout Re: Callout | Y-106-07 Y-106-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:41:51 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:15 11/8/2019 13:50 | 12" RW/WTR3 will call out | Chandler |
| Callout Re: Callout | Y-106-07 Y-106-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:41:42 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:15 11/10/2019 20:23 | Not sure what this line is? Leftover linework from old facility configuration, will remove on 90% drawings. | Chandler |
| Callout Re: Callout | Y-106-07 Y-106-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:41:30 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:15 11/8/2019 13:50 | Label pipe and hydrant. will add | Chandler |
| Callout Re: Callout | Y-106-07 Y-106-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:41:24 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:15 11/8/2019 13:50 | 12" RW/WTR3 will add | Chandler |
| Callout Re: Callout | Y-106-07 Y-106-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:41:16 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:15 11/8/2019 13:50 | 12" RW/WTR3 will add | Chandler |
| Callout Re: Callout | Y-106-07 Y-106-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:41:09 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:16 10/29/2019 16:16 | 2" WTR4? No, it should be shown connecting to RW/WTR3/ piping. | Chandler |
| Callout Re: Callout | Y-106-07 Y-106-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:40:36 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:16 11/8/2019 13:49 | Consider a cleanout here. will consider | Chandler |
| Callout Re: Callout | Y-106-07 Y-106-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:40:28 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:16 11/8/2019 13:49 | Indicate fluid service 16" RW. ok | Chandler |
| Callout Re: Callout | Y-106-07 Y-106-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:40:26 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:16 11/8/2019 13:49 | Indicate fluid service 12" RW. ok | Chandler |
| Callout Re: Callout | Y-106-07 Y-106-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:40:15 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:16 11/8/2019 13:49 | D-100-14WS3IS shows the 42 "RS connecting next to the 108" RS will coordinate | Chandler |
| Callout Re: Callout | Y-106-07 Y-106-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:43:11 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:17 10/29/2019 16:19 | Not clear what is being shown in the odor control area. Is there a canopy? If so that is not shown on the odor control sheets. No canopy. Linework will be updated to reflect current configuration of equipment. | Chandler |

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| Callout Re: Callout | Y-106-07 Y-106-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:42:58 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:17 10/29/2019 16:19 | Are there two gate valves here? Is a valve necessary given there is one on the downstream side of the backflow assembly? No, leader should be point to valves either side of the backflow preventer | Chandler |
| Cloud Callout Re: Cloud Callout | Y-106-07 Y-106-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:42:39 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:17 10/29/2019 16:18 | Not sure why fittings on this pipe are called out on this sheet, bu tnot on other sheets. Fittings and valves will be added to coordinate tables on all yard piping drawings. | Chandler |
| Callout Re: Callout | Y-106-07 Y-106-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:42:26 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:17 11/26/2019 8:05 | Confirm the valves on the 12" RW connection and backflow preventer are tagged and included in the valve schedule 12" WTR3/RW and 12" WTR3 valves not included in valve schedule. Will add to schedule for 90%. | Chandler |
| Callout Re: Callout | Y-106-07 Y-106-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:42:13 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:17 11/8/2019 13:51 | 12"? SD will confirm | Chandler |
| Callout Re: Callout | Y-106-07 Y-106-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:42:04 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:17 11/8/2019 13:51 | Not sure what this line is for. will confirm | Chandler |
| Group Re: Line | Y-106-07 Y-106-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:43:48 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:17 11/8/2019 13:52 | no comment | Chandler |
| Callout Re: Callout | Y-107-07 Y-107-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:45:34 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:18 11/8/2019 13:55 | Lineweight error? will fix | Chandler |
| Callout Re: Callout | Y-107-07 Y-107-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:45:19 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:18 11/8/2019 13:55 | Connection details? will add in 90% | Chandler |
| Callout Re: Callout | Y-107-07 Y-107-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:45:12 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:18 11/8/2019 13:55 | 3/4" FC. Length of pipe does not match D-110-14A. will coordinate | Chandler |
| Callout Re: Callout | Y-107-07 Y-107-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:44:59 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:18 10/29/2019 16:22 | Existing? New? Label to be deleted, F/H now located adjacent to Vactor Truck Facility. | Chandler |
| Callout Re: Callout | Y-107-07 Y-107-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:44:51 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:18 11/8/2019 13:54 | Arrow leaders not at correct location. will fix | Chandler |

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| Callout Re: Callout | Y-107-07 Y-107-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:44:38 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:18 12" D? 10/29/2019 16:22 12" SP, will add label | | Chandler |
| Cloud Callout Re: Cloud Callout | Y-107-07 Y-107-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:44:14 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:18 Confirm installation meets separation requirements between potable and RW pipelines. 11/8/2019 13:54 will do | | Chandler |
| Callout Re: Callout | Y-107-07 Y-107-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:44:03 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:18 Label 11/8/2019 13:54 will do | | Chandler |
| Callout Re: Callout | Y-107-07 Y-107-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:44:01 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:18 Label 11/8/2019 13:54 will do | | Chandler |
| Callout Re: Callout | Y-111-07 Y-111-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:46:23 AM | TAKEMOTOMW R White | 10/11/2019 15:18 Correct hatch to clarify pipe flange should not be demolished. 10/14/2019 9:24 Will correct. | | White |
| Cloud Callout Re: Cloud Callout | Y-111-07 Y-111-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:46:13 AM | TAKEMOTOMW R White | 10/11/2019 15:18 Confirm demolition of this portion of pipe is needed. 10/14/2019 9:24 Will update. | | White |
| Callout Re: Callout | Y-111-07 Y-111-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:46:07 AM | TAKEMOTOMW R White | 10/11/2019 15:19 Confirm leader is point to the right location. 10/14/2019 9:23 Will correct. | | White |
| Callout Re: Callout | Y-107-07 Y-107-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:45:48 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:19 Confirm no flexible joint is required here similar to other large diameter pipe connections at structures. 10/29/2019 16:23 Confirmed. | | Chandler |
| Callout Re: Callout | Y-107-07 Y-107-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:45:39 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:19 Key note seems misplaced. 11/8/2019 13:55 will review | | Chandler |
| Callout Re: Callout | Y-112-07 Y-112-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:46:33 AM | TAKEMOTOMW R White | 10/11/2019 15:20 Are these the existing spool pieces and FCAs that are being reused? 10/14/2019 9:25 Will add note to reuse if in good condition. | | White |
| Callout Re: Callout | Y-301-07 Y-301-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:48:45 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:21 Resolve apparent conflict. 11/8/2019 13:56 will resolve | | Chandler |
| Callout Re: Callout | Y-301-07 Y-301-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:50:44 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:21 Detail? 11/8/2019 13:57 will address in 90% | | Chandler |

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| Callout Re: Callout | Y-303-07 Y-303-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:51:07 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:22 11/8/2019 13:58 | Resolve apparent conflict. ok | Chandler |
| Callout Re: Callout | Y-303-07 Y-303-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:51:11 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:22 11/8/2019 13:58 | Resolve apparent conflict. ok | Chandler |
| Callout Re: Callout | Y-304-07 Y-304-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:51:25 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:22 11/8/2019 14:00 | Resolve apparent conflict. ok | Chandler |
| Callout Re: Callout | Y-304-07 Y-304-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:51:21 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:22 11/8/2019 14:00 | Resolve apparent conflict. ok | Chandler |
| Callout Re: Callout | Y-304-07 Y-304-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:51:17 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:22 11/8/2019 14:00 | Resolve apparent conflict. ok | Chandler |
| Callout Re: Callout | Y-501-07 Y-501-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:52:17 AM | TAKEMOTOMW dedwards | 10/11/2019 15:23 10/14/2019 10:40 | How will this box be placed and connected to the existing 84" RS. Additional details needed. The box will be cast-in-place over the 84" piping and the pipe inside the box will be cut out and removed. Further detail will be added to the design. | Edwards |
| Callout Re: Callout | Y-501-07 Y-501-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:51:57 AM | TAKEMOTOMW dedwards | 10/11/2019 15:23 10/14/2019 9:48 | Profile on Y-303-07 indicates the invert of the 84" RS is above the invert of the 48" WBW. Confirm. Will confirm the piping invert elevations and update as required. | Edwards |
| Callout Re: Callout | Y-502-07 Y-502-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:52:56 AM | TAKEMOTOMW scowden | 10/11/2019 15:24 10/23/2019 15:27 | Consider replacing with a tee and eliminating the clean out just down stream. A cleanout tee will be provided. | Cowden |
| Callout Re: Callout | Y-502-07 Y-502-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:52:59 AM | TAKEMOTOMW scowden | 10/11/2019 15:24 10/23/2019 15:27 | Consider replacing with a tee to facilitate cleaning. A cleanout tee will be provided. | Cowden |
| Callout Re: Callout | Y-502-07 Y-502-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:53:09 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:24 11/8/2019 14:01 | Fluid on this side is just RW. will resolve | Chandler |
| Callout Re: Callout | N-001-09 N-001-09 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:53:22 AM | TAKEMOTOMW Bryan Youker | 10/11/2019 15:26 10/14/2019 17:00 | Tag #? No tags on manual valves until next phase. | Foley |

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| Callout Re: Callout | N-001-09 N-001-09 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:53:33 AM | TAKEMOTOMW jfoley | 10/11/2019 15:26 10/28/2019 12:19 | Flow can go in both directions. Will update. | Foley |
| Callout Re: Callout | N-003-09 N-003-09 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:53:45 AM | TAKEMOTOMW jfoley | 10/11/2019 15:27 10/28/2019 12:22 | Flow can go in both directions. Will update. | Foley |
| Callout Re: Callout | N-005-09 N-005-09 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:53:56 AM | TAKEMOTOMW Bryan Youker | 10/11/2019 15:27 10/14/2019 17:01 | Delete "Grit Basin Effluent" from label. Agree. Will revise. | Foley |
| Text Re: Text Re: Re: Text | N-005-09 N-005-09 N-005-09 | | DG kmaestri DG | 10/11/2019 15:27 11/26/2019 8:09 2/12/2020 12:34 | Is a MODBUS connection provided from each PLC? TYP comments? | Foley |
| Callout Re: Callout | N-005-09 N-005-09 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:54:22 AM | TAKEMOTOMW Bryan Youker | 10/11/2019 15:27 10/14/2019 17:02 | Label Will add. 12" | Foley |
| Callout Re: Callout | N-005-09 N-005-09 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:54:11 AM | TAKEMOTOMW Bryan Youker | 10/11/2019 15:27 10/14/2019 17:02 | 18" SCR/D Agree. Will add callout. | Foley |
| Callout Re: Callout | N-005-09 N-005-09 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:54:04 AM | TAKEMOTOMW Bryan Youker | 10/11/2019 15:27 10/14/2019 17:01 | Delete "Screenings Handling" from label. Agree. Will revise | Foley |
| Cloud Callout Re: Cloud Callout | N-006-09 N-006-09 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:54:36 AM | TAKEMOTOMW Bryan Youker | 10/11/2019 15:27 10/14/2019 17:00 | Not clear which valves these are on the Yard Piping sheets. Agree. Will likely create another PID on Utility PID that shows the connection between RW and WTR3 with the isolation valves and backflow preventer. | Foley/Youker |
| Callout Re: Callout | N-006-09 N-006-09 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:54:44 AM | TAKEMOTOMW Bryan Youker | 10/11/2019 15:27 10/14/2019 17:03 | Suggest "Screen" instead of "Screenings", TYP 3 Agree. This is Influent Screen Effluent Channel. | Foley |
| Callout Re: Callout | N-007-09 N-007-09 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:56:20 AM | TAKEMOTOMW jfoley | 10/11/2019 15:28 10/28/2019 12:27 | 120" RS Will add. | Foley |
| Callout Re: Callout | N-007-09 N-007-09 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:56:14 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:28 11/8/2019 12:40 | This end should be drawn as the end of concrete channel. Flow exits via pipe. will coordinate with mechanical | Foley |
| Callout | N-007-09 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:55:23 AM | TAKEMOTOMW | 10/11/2019 15:28 | Suggest "Screen" not "Screenings" | Foley |

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| Re: Callout | N-007-09 | | kmaestri | 11/8/2019 10:36 | will consider | |
| Callout Re: Callout | N-006-09 N-006-09 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:54:58 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:28 11/8/2019 10:34 | Is there a damper on this line? no | Foley |
| Cloud Callout Re: Cloud Callout | N-008-09 N-008-09 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:56:32 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:28 11/8/2019 12:41 | Could not find these on the mechanical process sheets. Does not seem to match the configuration shown on the process mechanical drawings. will coordinate | Foley |
| Callout Re: Callout | N-009-09 N-009-09 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:57:30 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:29 11/8/2019 12:43 | K abbreviation for knife gate missing on VLV 9520-03 will correct | Foley |
| Callout Re: Callout | N-012-09 N-012-09 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:57:44 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:29 11/8/2019 12:44 | This end should be drawn as the start of a concrete channel. Flow enters via pipe. will coordinate with mechanical and correct as needed | Foley |
| Callout Re: Callout | N-012-09 N-012-09 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:57:52 AM | TAKEMOTOMW jfoley | 10/11/2019 15:29 10/28/2019 12:30 | 120" RS Will add. | Foley |
| Callout Re: Callout | N-012-09 N-012-09 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:58:32 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:29 11/8/2019 12:44 | Not sure what the bypass line is for. If its to maintain the flow meter and PRV then additional isolation valves are needed to isolate those items. will review and add additional valves as needed | Foley |
| Callout Re: Callout | N-021-09 N-021-09 | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:11:49 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:29 11/8/2019 12:47 | D120-14HW3GB shows a foul air makeup air intake near Grit Basin 6. will coordinate and modify PID as needed. | Foley |
| Callout Re: Callout | N-022-09 N-022-09 | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:11:55 AM | TAKEMOTOMW Bryan Youker | 10/11/2019 15:29 10/14/2019 17:08 | /RW Will review and coordinate flow streams. | Foley |
| Callout Re: Callout | N-022-09 N-022-09 | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:12:25 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:29 11/8/2019 12:48 | This does not align with flow tags on N-025-09. Should be 70? will confirm and fix as required | Foley |
| Callout Re: Callout | N-023-09 N-023-09 | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:12:35 AM | TAKEMOTOMW Bryan Youker | 10/11/2019 15:29 10/14/2019 17:06 | Grit Handling 1 Will review and correct. | Foley |
| Callout Re: Callout | N-025-09 N-025-09 | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:15:01 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:30 11/8/2019 12:48 | AI label missing? will review and correct as needed | Foley |
| Callout | N-024-09 | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:12:38 AM | TAKEMOTOMW | 10/11/2019 15:30 | Grit Handling 2 | Foley |

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| Re: Callout | N-024-09 | | Bryan Youker | 10/14/2019 17:07 | Will review and correct. | |
| Group Re: Pen | N-033-09 N-033-09 | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:16:03 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:30 k 11/8/2019 12:50 no comment | | Cowden |
| Callout Re: Callout | N-033-09 N-033-09 | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:16:08 AM | TAKEMOTOMW scowden | 10/11/2019 15:30 Revise to match physical configuration. 10/23/2019 15:29 PID will be revised to match physical configuration. | | Cowden |
| Callout Re: Callout | N-033-09 N-033-09 | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:16:14 AM | TAKEMOTOMW scowden | 10/11/2019 15:30 Label 10/23/2019 15:30 Label will be added. | | Cowden |
| Callout Re: Callout | N-034-09 N-034-09 | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:16:46 AM | TAKEMOTOMW scowden | 10/11/2019 15:31 Confirm these valves are needed. Other means of isolation are available upstream and downstream. 10/23/2019 15:31 Valves should be provided for isolating basket strainer. | | Cowden |
| Callout Re: Callout | N-034-09 N-034-09 | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:16:53 AM | TAKEMOTOMW kmaestri | 10/11/2019 15:31 2-1/2" BR? 11/8/2019 12:51 will confirm | | Cowden |
| Callout Re: Callout | N-034-09 N-034-09 | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:17:09 AM | TAKEMOTOMW scowden | 10/11/2019 15:31 Confirm this configuration. As drawn it will allow all water to drain out of the odor control tower. 10/23/2019 15:33 Configuration will be corrected to match physical layout. | | Cowden |
| Callout Re: Callout | N-038-09 N-038-09 | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:17:18 AM | TAKEMOTOMW dedwards | 10/11/2019 15:32 15" on process mech drawings 10/14/2019 10:44 Will update the P&ID to match Process and Yard piping drawings. | | Edwards |
| Callout Re: Callout | N-038-09 N-038-09 | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:17:30 AM | TAKEMOTOMW dedwards | 10/11/2019 15:32 This line goes into the manhole on yard piping sheets. 10/14/2019 10:45 Will update the P&ID to match yard piping. | | Edwards |
| Callout Re: Callout | N-038-09 N-038-09 | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:17:39 AM | TAKEMOTOMW dedwards | 10/11/2019 15:32 This line goes directly into the PS wet well on process mech and yard piping sheets (i.e. not through a manhole first) 10/14/2019 10:43 Will revise the P&ID to match Process and Yard piping. | | Edwards |
| Callout Re: Callout | N-039-09 N-039-09 | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:17:47 AM | TAKEMOTOMW Bryan Youker | 10/11/2019 15:32 Complete 10/14/2019 17:06 Agree. Will complete connector. | | Foley |
| Callout Re: Callout | D-120-11E D-120-11E | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:18:06 AM | TAKEMOTOMW R White | 10/11/2019 15:33 Is the intent to leave the Pie structure open, i.e. no grating on top? If so should this be removable railing for maintenance access? Intent is to leave the top of the pie structure open. Will coordinate 10/14/2019 9:40 removable handrail. | | White |

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| Callout Re: Callout | D-120-11E D-120-11E | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:18:19 AM | TAKEMOTOMW R White | 10/11/2019 15:34 10/14/2019 9:40 | Confirm pumping to this elevation does not impact the Milpitas FM operation. Will do. | White |
| Cloud Callout Re: Cloud Callout | D-120-11E D-120-11E | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:18:32 AM | TAKEMOTOMW R White | 10/11/2019 15:34 10/14/2019 9:40 | Confirm how this cantilevered pipe will be supported. Detail to be added at 90% | White |
| Callout Re: Callout | D-120-11E D-120-11E | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:18:45 AM | TAKEMOTOMW R White | 10/11/2019 15:34 10/14/2019 9:41 | Water level in Pie structure is EL 4 to 6. Suggest having the discharge pipe extend below the water surface. Same comment for Milpitas FM line. Will do. | White |
| Callout Re: Callout | D-120-11E D-120-11E | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:18:55 AM | TAKEMOTOMW R White | 10/11/2019 15:34 10/14/2019 9:41 | Confirm a vent is not needed on this line. Will verify | White |
| Callout Re: Callout | D-120-11E D-120-11E | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:19:03 AM | TAKEMOTOMW R White | 10/11/2019 15:34 10/14/2019 9:41 | Confirm saddle footing location shown versus existing grade. Will verify. | White |
| Callout Re: Callout | X-110-1P X-110-1P | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:19:15 AM | TAKEMOTOMW R White | 10/11/2019 15:35 10/14/2019 9:45 | Unclear if this existing or part of this project. Will clarify. | White |
| Callout Re: Callout | D-120-1P D-120-1P | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:19:38 AM | TAKEMOTOMW R White | 10/11/2019 15:36 10/14/2019 9:47 | As written it is not clear if capping the 82" is part of this contract or if it has already been capped. Clarify. Will clarify. | White |
| Callout Re: Callout | D-120-1P D-120-1P | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:20:19 AM | TAKEMOTOMW R White | 10/11/2019 15:36 10/14/2019 9:47 | Section cut arrow should be facing opposite direction based on the view shown on D-301-1P Will correct. | White |
| Callout Re: Callout | D-301-1P D-301-1P | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:20:32 AM | TAKEMOTOMW R White | 10/11/2019 15:36 10/14/2019 9:48 | Additional details are needed on the existing wall thimble/or penetration at this location to confirm how the new 96" RS line will be connected. Will add at 90% | White |
| Callout Re: Callout | D-301-1P D-301-1P | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:20:48 AM | TAKEMOTOMW R White | 10/11/2019 15:36 10/14/2019 9:51 | Has it been confirmed that this gate is in working order? See Facility Condition Assessment for evaluation. | White |
| Callout Re: Callout | D-301-1P D-301-1P | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:20:52 AM | TAKEMOTOMW R White | 10/11/2019 15:36 10/14/2019 9:51 | Top of wall elevation? Will add. | White |
| Callout Re: Callout | D-301-1P D-301-1P | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:21:01 AM | TAKEMOTOMW R White | 10/11/2019 15:36 10/14/2019 9:51 | Ground elevation? Will add. | White |

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| Callout Re: Callout | D-301-1P D-301-1P | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:21:09 AM | TAKEMOTOMW R White | 10/11/2019 15:36 10/14/2019 9:51 | Details or material requirements for Stand Box? Will add. | White |
| Callout Re: Callout | D-301-1P D-301-1P | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:21:16 AM | TAKEMOTOMW R White | 10/11/2019 15:36 10/14/2019 9:51 | Pipe supports required along wall. Will add. | White |
| Callout Re: Callout | S-110-2D S-110-2D | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:21:23 AM | TAKEMOTOMW lscoggin | 10/11/2019 15:36 10/15/2019 13:18 | Coating requirements? Will coordinate with corrosion control team. | Scoggins |
| Callout Re: Callout | S-110-2D S-110-2D | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:21:32 AM | TAKEMOTOMW lscoggin | 10/11/2019 15:36 11/26/2019 8:05 | Coating requirements? Will assess for conditions | Scoggins |
| Text Re: Text | D-120-2D D-120-2D | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:21:37 AM | TAKEMOTOMW R White | 10/11/2019 15:37 10/14/2019 9:51 | Additional detail development is needed on this sheet. Noted. | White |
| Callout Re: Callout | D-120-2D D-120-2D | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:21:48 AM | TAKEMOTOMW Sam Chandler | 10/11/2019 15:37 10/18/2019 22:44 | This structure does not show up on the civil or yard piping drawings. Will add to civil and yard piping drawings at 90% | Chandler |
| Callout Re: Callout | D-110-23 D-110-23 | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:22:12 AM | TAKEMOTOMW dedwards | 10/11/2019 15:37 10/14/2019 10:48 | Add pipe centerline and other elevations. Will add elevations to match existing pipe elevations. | Edwards |
| Callout Re: Callout | X-110-1A X-110-1A | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:22:25 AM | TAKEMOTOMW lscoggin | 10/11/2019 15:37 10/15/2019 13:21 | Clarify extent of demolition at interface between the two structures. Will add detailed information | Scoggins |
| Callout Re: Callout | X-110-1A X-110-1A | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:22:20 AM | TAKEMOTOMW lscoggin | 10/11/2019 15:37 10/15/2019 13:20 | Confirm what is required to abandon these lines. Will work through details as design progress | Scoggins |
| Callout Re: Callout | X-110-1A X-110-1A | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:22:38 AM | TAKEMOTOMW R White | 10/11/2019 15:38 10/14/2019 9:52 | Wouldn't the existing gates be useful for isolating the Pie structure if needed? City has expressed that gates are unusable. | White |
| Callout Re: Callout | S-110-1A S-110-1A | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:22:51 AM | TAKEMOTOMW lscoggin | 10/11/2019 15:38 10/15/2019 13:22 | Label. Wall | Scoggins |
| Callout | X-110-1B | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:23:23 AM | TAKEMOTOMW | 10/11/2019 15:39 | Do all of these walls need to be cut down or is cutting down 1 or 2 sufficient? | White |

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| Re: Callout | X-110-1B | | R White | 10/14/2019 9:57 | All sections will need to be lowered. If only 1 or 2 are lowered, plant influent may flow to the Junction Box at peak flows. | |
| Callout Re: Callout | D-120-12HW2 D-120-12HW2 | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:23:31 AM | TAKEMOTOMW R White | 10/11/2019 15:39 10/14/2019 9:57 | How will new pipe connect to existing? Will add detail at 90% if kept in design. | White |
| Callout Re: Callout | D-120-12HW2 D-120-12HW2 | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:23:35 AM | TAKEMOTOMW R White | 10/11/2019 15:39 10/14/2019 9:58 | Details for buried valve. Will add detail at 90% if kept in design. | White |
| Callout Re: Callout | D-110-12RECYP51 D-110-12RECYP51 | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:23:45 AM | TAKEMOTOMW dedwards | 10/11/2019 15:40 10/14/2019 10:49 | Pipe supports needed. Pipe supports will be design post 60% | Edwards |
| Callout Re: Callout | X-110-14A X-110-14A | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:24:03 AM | TAKEMOTOMW Iscoggin | 10/11/2019 15:41 10/15/2019 13:23 | Confirm approximate diameter of concrete plug. Will have to be verified during construction | Scoggins |
| Callout Re: Callout | X-110-14A X-110-14A | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:23:50 AM | TAKEMOTOMW Iscoggin | 10/11/2019 15:41 10/15/2019 13:23 | Confirm dimension. Will clarify | Scoggins |
| Callout Re: Callout Re: Re: Callout | X-110-14A X-110-14A X-110-14A | | DG Iscoggin DG | 10/11/2019 15:41 10/15/2019 13:24 2/12/2020 12:35 | Call out EBOS compartment names Not necessary for work on this drawing Put naming on base layer, shaded back is fine. | Scoggins |
| Cloud Callout Re: Cloud Callout Re: Re: Cloud Callout | X-110-14A X-110-14A X-110-14A | | DG Iscoggin DG | 10/11/2019 15:41 10/15/2019 13:24 2/12/2020 12:36 | Where are all the other influent pipes? Not pertinent to work on this drawing Some pipes are shown, some are not. Keep base layer the same for all drawings. | Scoggins |
| Callout Re: Callout | S-110-14A S-110-14A | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:24:28 AM | TAKEMOTOMW Bryan Youker | 10/11/2019 15:41 11/8/2019 13:33 | Is this wall needed? Per recent CFD modeling, it appears the wall does more harm than good. We are currently evaluating a baffle wall that is located 180-deg from this location (between Interceptor 4 and future interceptor). A baffle in this location may prevent buildup near the Return Pump's discharge. | Youker |
| Callout Re: Callout | D-110-14A D-110-14A | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:24:43 AM | TAKEMOTOMW Bryan Youker | 10/11/2019 15:42 10/14/2019 14:59 | Confirm plug valves are desired for WTR3/RW. Can revise plug valves to butterfly valves. | Youker |
| Callout Re: Callout | D-301-14A D-301-14A | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:24:52 AM | TAKEMOTOMW R White | 10/11/2019 15:43 10/14/2019 9:58 | Confusing to show the actuator, but not the gate below. Will clarify. | White |
| Callout Re: Callout | D-301-14A D-301-14A | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:25:04 AM | TAKEMOTOMW R White | 10/11/2019 15:43 10/14/2019 9:58 | Connection? Will note connection. | White |

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| Callout | D-301-14A | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:25:25 AM | TAKEMOTOMW | 10/11/2019 15:44 | As drawn, the pipe segment has a MJ end and a flanged end, which will require a larger core drill through the wall. | White |
| Re: Callout | D-301-14A | | R White | 10/14/2019 10:00 | Noted - this piping will be modified to discharge below the water surface, eliminating this issue. | |
| Callout | D-301-14A | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:38:49 AM | TAKEMOTOMW | 10/11/2019 15:44 | Centerline? | White |
| Re: Callout | D-301-14A | | R White | 10/14/2019 10:06 | Will add. | |
| Callout | D-301-14A | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:38:58 AM | TAKEMOTOMW | 10/11/2019 15:44 | Connection detail? | White |
| Re: Callout | D-301-14A | | R White | 10/14/2019 10:06 | Will add at 90%. | |
| Callout | D-301-14A | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:39:06 AM | TAKEMOTOMW | 10/11/2019 15:44 | 12" SP on plan view. | White |
| Re: Callout | D-301-14A | | R White | 10/14/2019 10:06 | Will correct. | |
| Callout | D-301-14A | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:39:11 AM | TAKEMOTOMW | 10/11/2019 15:44 | Pipe invert/centerline elevations? | White |
| Re: Callout | D-301-14A | | R White | 10/14/2019 10:07 | Will add at 90% | |
| Text | D-301-14A | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:39:19 AM | TAKEMOTOMW | 10/11/2019 15:44 | Pipe support details are needed, typ. | White |
| Re: Text | D-301-14A | | R White | 10/14/2019 10:07 | Will add at 90% | |
| Callout | C-100-14B | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:39:28 AM | TAKEMOTOMW | 10/11/2019 15:45 | Confirm extents where detail 5 should be used versus detail 2. | Chandler |
| Re: Callout | C-100-14B | | kmaestri | 11/8/2019 9:26 | will do | |
| Cloud Callout | C-100-14B | | DG | 10/11/2019 15:45 | What loading was assumed to reduce the concrete thickness to 4-inches? | Chandler |
| Re: Cloud Callout | C-100-14B | | Sam Chandler | 11/26/2019 8:07 | What City equipment was assumed to be used in the basin? | |
| Re: Re: Cloud Callout | C-100-14B | | DG | 2/12/2020 12:36 | Further refining of the liner will be done at 90%. Provide calculations prior to 90% deliverable. | |
| Callout | C-301-14B | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:39:50 AM | TAKEMOTOMW | 10/11/2019 15:45 | Ridge does not appear to be centered. How will location be determined? | Chandler |
| Re: Callout | C-301-14B | | Sam Chandler | 10/29/2019 16:27 | Crown of road is centered. Section view cuts off outside edge of road, will update at 90%. Grading not changing, existing crown location will be matched. | |
| Callout | C-301-14B | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:40:02 AM | TAKEMOTOMW | 10/11/2019 15:45 | Is there a detail for the 4" thick liner sections? | Chandler |
| Re: Callout | C-301-14B | | Sam Chandler | 10/29/2019 16:28 | Yes, see detail 1 on C-501-14B | |
| Callout | C-501-14B | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:40:20 AM | TAKEMOTOMW | 10/11/2019 15:45 | If there is a curb here where does runoff go? Per grading plans, drainage is slope to the curb. | Chandler |
| Re: Callout | C-501-14B | | Sam Chandler | 10/29/2019 16:29 | Curb cutouts will be provided to allow drainage into EOB. Additional detail to be provided at 90%. | |

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| Callout Re: Callout | D-101-14HW3IS D-101-14HW3IS | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:40:29 AM | TAKEMOTOMW Bryan Youker | 10/11/2019 15:46 /RW 10/14/2019 15:11 | Will coordinate flow streams. | Youker |
| Callout Re: Callout | D-101-14HW3IS D-101-14HW3IS | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:40:33 AM | TAKEMOTOMW Bryan Youker | 10/11/2019 15:46 10/14/2019 15:12 | Complete detail Will complete std detail callouts. | Youker |
| Callout Re: Callout | D-102-14HW3IS D-102-14HW3IS | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:40:57 AM | TAKEMOTOMW Bryan Youker | 10/11/2019 15:47 10/14/2019 15:13 | Label Typically do not label piping on outside of matchlines. Will review final presentation and make sure no conflicting into and include. | Youker |
| Callout Re: Callout | D-110-14HW3IS D-110-14HW3IS | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:41:14 AM | TAKEMOTOMW Bryan Youker | 10/11/2019 15:47 10/14/2019 15:14 | As depicted the discharge chutes are not long enough to deposit material into the dumpsters. Extend. Will revise model to include longer discharge tubes. | Youker |
| Callout Re: Callout | D-111-14HW3IS D-111-14HW3IS | Accepted set by TAKEMOTOMW on 11/29/2019 at 5:40:23 PM | TAKEMOTOMW Bryan Youker | 10/11/2019 15:47 10/14/2019 15:15 | Label Typically try to have minimal annotation for an area that is presented on another drawing as a detail. Usually only callout equipment and instrumentation. | Youker |
| Callout Re: Callout | D-111-14HW3IS D-111-14HW3IS | Accepted set by TAKEMOTOMW on 11/29/2019 at 5:40:37 PM | TAKEMOTOMW Bryan Youker | 10/11/2019 15:47 10/14/2019 15:16 | Suggest adding a hose bib and rack on this side for cleaning the front of the screens. Agree. Can add to front side of screens. | Youker |
| Callout Re: Callout | D-112-14HW3IS D-112-14HW3IS | Accepted set by TAKEMOTOMW on 11/29/2019 at 5:41:03 PM | TAKEMOTOMW Bryan Youker | 10/11/2019 15:47 10/14/2019 15:16 | Label Will add annotation. | Youker |
| Callout Re: Callout | D-112-14HW3IS D-112-14HW3IS | Accepted set by TAKEMOTOMW on 11/29/2019 at 5:41:56 PM | TAKEMOTOMW Bryan Youker | 10/11/2019 15:47 10/14/2019 15:17 | Suggest removing canopy beams from this view for clarity. Will review presentation. | Youker |
| Callout Re: Callout | D-112-14HW3IS D-112-14HW3IS | Accepted set by TAKEMOTOMW on 11/29/2019 at 5:47:23 PM | TAKEMOTOMW Bryan Youker | 10/11/2019 15:47 10/14/2019 15:22 | Confirm the dumpster truck can connect to and remove the bin when it is all the way into the structure. Truck should be able to "drag" dumpster to front, then tip up on to truck. | Youker |
| Callout Re: Callout | D-301-14HW3IS D-301-14HW3IS | Accepted set by TAKEMOTOMW on 11/29/2019 at 5:47:36 PM | TAKEMOTOMW Bryan Youker | 10/11/2019 15:47 10/14/2019 15:23 | Cleanout is not accessible due to overhang above. Will review and try to improve access or location of clean out. | Youker |
| Callout Re: Callout | D-301-14HW3IS D-301-14HW3IS | Accepted set by TAKEMOTOMW on 11/29/2019 at 5:47:58 PM | TAKEMOTOMW Bryan Youker | 10/11/2019 15:47 10/14/2019 15:23 | /RW Will coordinate final flowstreams callouts. | Youker |

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| Callout | D-301-14HW3IS | Accepted set by TAKEMOTOMW on 11/29/2019 at 5:48:16 PM | TAKEMOTOMW | 10/11/2019 15:47 | Will 2" WTR3/RW line be supported by the sluice? Is so need to require that feature in the specs. Intent was to route 2" WTR3 under sluice on same supports. Depending on sluice support spacing, may need additional supports. Will include description in spec. | Youker |
| Re: Callout | D-301-14HW3IS | | Bryan Youker | 10/14/2019 15:28 | | |
| Callout | D-301-14HW3IS | Accepted set by TAKEMOTOMW on 11/29/2019 at 5:48:28 PM | TAKEMOTOMW | 10/11/2019 15:47 | No supports for the sluice are shown on the drawings. Correct. Supports will be shown in next phase. Supports may not be suppliers final layout. | Youker |
| Re: Callout | D-301-14HW3IS | | Bryan Youker | 10/14/2019 15:29 | | |
| Callout | D-301-14HW3IS | Accepted set by TAKEMOTOMW on 11/29/2019 at 5:48:34 PM | TAKEMOTOMW | 10/11/2019 15:47 | Label | Youker |
| Re: Callout | D-301-14HW3IS | | Bryan Youker | 10/14/2019 15:30 | Will review presentation. Pipe is called on on detail, which may be adequate. | |
| Callout | D-301-14HW3IS | Accepted set by TAKEMOTOMW on 11/29/2019 at 5:48:47 PM | TAKEMOTOMW | 10/11/2019 15:47 | Can damper just be closed instead of using the BF? Will review. Could also install BF and no damper. Then when duct is put to use, damper be added. | Youker |
| Re: Callout | D-301-14HW3IS | | Bryan Youker | 10/14/2019 15:31 | | |
| Callout | D-301-14HW3IS | Accepted set by TAKEMOTOMW on 11/29/2019 at 5:49:02 PM | TAKEMOTOMW | 10/11/2019 15:47 | Label | Youker |
| Re: Callout | D-301-14HW3IS | | Bryan Youker | 10/14/2019 15:32 | Will add pipe callout. | |
| Callout | D-301-14HW3IS | Accepted set by TAKEMOTOMW on 11/29/2019 at 5:49:13 PM | TAKEMOTOMW | 10/11/2019 15:48 | Material change? | Youker |
| Re: Callout | D-301-14HW3IS | | Bryan Youker | 10/14/2019 15:32 | Yes. Should be standard detail callout . | |
| Callout | D-302-14HW3IS | Accepted set by TAKEMOTOMW on 11/29/2019 at 5:59:13 PM | TAKEMOTOMW | 10/11/2019 15:48 | There should be a flexible closure piece connecting the discharge chute to the sluice. Will review with Huber. They currently show a flared rectangular section on sluice and a feed into into with a small air gap around the screen discharge chute. | Youker |
| Re: Callout | D-302-14HW3IS | | Bryan Youker | 10/14/2019 16:27 | | |
| Callout | D-302-14HW3IS | Accepted set by TAKEMOTOMW on 11/29/2019 at 5:58:56 PM | TAKEMOTOMW | 10/11/2019 15:48 | Callout invert elevations. | Youker |
| Re: Callout | D-302-14HW3IS | | Bryan Youker | 10/14/2019 16:26 | Will add during next phase of Design. | |
| Callout | D-501-14HW3IS | Accepted set by TAKEMOTOMW on 11/29/2019 at 5:59:35 PM | TAKEMOTOMW | 10/11/2019 15:48 | Not sure what these tabs are. | Youker |
| Re: Callout | D-501-14HW3IS | | Bryan Youker | 10/14/2019 16:29 | Modeling feature that should have been turned off. Will turn off next phase. | |
| Callout | D-100-14HW3PS | Accepted set by TAKEMOTOMW on 11/29/2019 at 5:59:45 PM | TAKEMOTOMW | 10/11/2019 15:48 | Only one 1 1/2" WTR3/RW connections is shown on Y-106-07 | Crook |
| Re: Callout | D-100-14HW3PS | | scrook | 10/15/2019 10:21 | This will be coordinated in 90%. | |

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| Callout Re: Callout | D-100-14HW3PS D-100-14HW3PS | Accepted set by TAKEMOTOMW on 11/29/2019 at 5:59:49 PM | TAKEMOTOMW scrook | 10/11/2019 15:48 /RW 10/15/2019 10:22 | Noted. | Crook |
| Callout Re: Callout | D-100-14HW3PS D-100-14HW3PS | Accepted set by TAKEMOTOMW on 11/29/2019 at 5:59:59 PM | TAKEMOTOMW scrook | 10/11/2019 15:48 10/15/2019 10:22 | Not shown on Y-106-07 This will be coordinated in 90%. | Crook |
| Callout Re: Callout | D-120-14HW3PS D-120-14HW3PS | Accepted set by TAKEMOTOMW on 11/29/2019 at 6:03:48 PM | TAKEMOTOMW scrook | 10/11/2019 15:49 10/15/2019 10:13 | Not clear why the FA connection on the wet well side is configured differently than the other, similar, connection on pumps 4 and 5. The difference is in order to avoid a structural beam with the deck penetration. | Crook/Cowden |
| Callout Re: Callout | D-120-14HW3PS D-120-14HW3PS | Accepted set by TAKEMOTOMW on 11/29/2019 at 6:03:57 PM | TAKEMOTOMW scrook | 10/11/2019 15:49 11/26/2019 8:06 | Are these openings for stop gates? If so are guides to be provided? These are openings for stop gates. Per 10/22 meeting these are supposed to be added to the scope of work. | Crook |
| Cloud Callout Re: Cloud Callout | D-120-14HW3PS D-120-14HW3PS | Accepted set by TAKEMOTOMW on 11/29/2019 at 6:04:20 PM | TAKEMOTOMW scrook | 10/11/2019 15:49 10/15/2019 10:15 | Suggest sliding the stairs to the west to increase the clearance between the stairs and Gate 14GTE9650-05 Stairs will be moved west as much as possible without impacting other facility requirements. | Crook/Pieterick |
| Callout Re: Callout | D-120-14HW3PS D-120-14HW3PS | Accepted set by TAKEMOTOMW on 11/29/2019 at 6:04:35 PM | TAKEMOTOMW scrook | 10/11/2019 15:49 10/15/2019 10:24 | Suggest moving the label "Flushing..." from the top of page to here next to the related detail. Noted. | Crook |
| Callout Re: Callout | D-120-14HW3PS D-120-14HW3PS | Accepted set by TAKEMOTOMW on 11/29/2019 at 6:04:39 PM | TAKEMOTOMW scrook | 10/11/2019 15:49 10/15/2019 10:24 | /RW Noted. | Crook |
| Callout Re: Callout | D-120-14HW3PS D-120-14HW3PS | Accepted set by TAKEMOTOMW on 11/29/2019 at 6:04:53 PM | TAKEMOTOMW scrook | 10/11/2019 15:49 10/15/2019 10:25 | Not sure what this is? Seems to be in the main walkway. This is a stanchion for an electrical panel, which should be adjacent the handrail and not in the walkway. This will be corrected in 90% design. | Crook |
| Callout Re: Callout | D-120-14HW3PS D-120-14HW3PS | Accepted set by TAKEMOTOMW on 11/29/2019 at 6:05:02 PM | TAKEMOTOMW scrook | 10/11/2019 15:49 10/15/2019 10:25 | Restrained? This is restrained, see 40 27 01 for the product identified for this use. | Crook |
| Callout Re: Callout | D-401-14HW3PS D-401-14HW3PS | Accepted set by TAKEMOTOMW on 11/29/2019 at 6:07:24 PM | TAKEMOTOMW scrook | 10/11/2019 15:50 10/15/2019 10:27 | Need to provide height/depth required for p-trap. Will be included in detailed design. | Crook |
| Cloud Callout | S-121-14HW3GB | Accepted set by TAKEMOTOMW on 11/29/2019 at 7:13:54 PM | TAKEMOTOMW | 10/11/2019 15:50 | Is this the extent of the monorail? How will equipment be removed from the bottom floor of the grit room? Seems like a monorail is needed the full length of the building and there needs to be a way to get equipment up to this platform. | Scoggins |

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| Re: Cloud Callout | S-121-14HW3GB | Accepted set by TAKEMOTOMW on 11/29/2019 at 6:07:36 PM Accepted set by TAKEMOTOMW on 11/29/2019 at 7:13:31 PM None set by TAKEMOTOMW on 11/29/2019 at 7:13:35 PM | Iscoggin | 11/26/2019 8:08 | Will review | |
| Cloud Callout | D-101-14HW3GB | Accepted set by TAKEMOTOMW on 11/29/2019 at 6:07:52 PM | TAKEMOTOMW | 10/11/2019 15:50 | Consider adding a equipment access doorway here and extending the monorail outside to facilitate the pickup of equipment from outside the building. The south side (where pointing) is constricted and limited for fire truck access. We were worried about man-door swing, but a seldom used roll-up door may be feasible. | Youker |
| Re: Cloud Callout | D-101-14HW3GB | | Bryan Youker | 10/14/2019 16:31 | | |
| Callout | D-102-14HW3GB | Accepted set by TAKEMOTOMW on 11/29/2019 at 6:26:05 PM | TAKEMOTOMW | 10/11/2019 15:50 | Label | Youker |
| Re: Callout | D-102-14HW3GB | | Bryan Youker | 10/14/2019 16:34 | Agree. will label. | |
| Callout | D-103-14HW3GB | Accepted set by TAKEMOTOMW on 11/29/2019 at 6:26:17 PM | TAKEMOTOMW | 10/11/2019 15:50 | Confirm dumpsters will have wheel stops or curbs. | Youker |
| Re: Callout | D-103-14HW3GB | | Bryan Youker | 10/14/2019 16:35 | Will have similar detail as Screenings Dumpster rails. | |
| Callout | D-120-14HW3GB | Accepted set by TAKEMOTOMW on 11/29/2019 at 6:26:51 PM | TAKEMOTOMW | 10/11/2019 15:50 | Flow is not well distributed in the influent channel. Given the large size of the channel flow velocities will be low. Its likely a significant amount of grit will deposit in the corner where there will be less turbulence from the pump discharge. Cleaning out this area will require shutting down HW3. Will be reviewing this area with CFD modeling. If required can add concrete fillets along Grid H, and perhaps additional fillet at Grids 4-5 | Youker |
| Re: Callout | D-120-14HW3GB | | Bryan Youker | 10/14/2019 16:39 | | |
| Callout | D-120-14HW3GB | Accepted set by TAKEMOTOMW on 11/29/2019 at 6:29:19 PM | TAKEMOTOMW | 10/11/2019 15:50 | For FA, this will be an area with high H2S emissions, but appear to be a stagnant area in terms of air flow. No FA or intake are connections. Will review. If we provide access per other comment, a portion could be grating to allow air in. | Youker |
| Re: Callout | D-120-14HW3GB | | Bryan Youker | 10/14/2019 16:40 | | |
| Callout | D-301-14HW3GB | Accepted set by TAKEMOTOMW on 11/29/2019 at 6:29:33 PM | TAKEMOTOMW | 10/11/2019 15:51 | /RW | Youker |
| Re: Callout | D-301-14HW3GB | | Bryan Youker | 10/14/2019 16:42 | Will coordinate final flow stream. | |
| Callout | D-301-14HW3GB | Accepted set by TAKEMOTOMW on 11/29/2019 at 6:29:51 PM | TAKEMOTOMW | 10/11/2019 15:51 | The bottom cone area is filled with grout. | Youker |
| Re: Callout | D-301-14HW3GB | | Bryan Youker | 10/14/2019 16:43 | Yes. Structural drawings include shaping. | |
| Callout | D-301-14HW3GB | Accepted set by TAKEMOTOMW on 11/29/2019 at 6:30:06 PM | TAKEMOTOMW | 10/11/2019 15:51 | Invert of gate/top of floor is EL 14. Gate is listed as 72" tall = EL 20. Hydraulic profile shows WS EL up to EL. 23.44. Gate is too short. TYP 6. Agree will make gate taller. Note that maximum hydraulic gradeline when treating 260 mgd, and all grit basins in service. So isolate gates will not be in down position. Will coordinate overall height of gate. | Youker |
| Re: Callout | D-301-14HW3GB | | Bryan Youker | 10/14/2019 16:45 | | |

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| Text Re: Text | D-301-14HW3GB D-301-14HW3GB | Accepted set by TAKEMOTOMW on 11/29/2019 at 6:30:17 PM | TAKEMOTOMW Bryan Youker | 10/11/2019 15:51 10/28/2019 14:51 | No pipe supports are shown on this sheet. Pipe support design will be part of next phase of design. | Youker |
| Callout Re: Callout | D-302-14HW3GB D-302-14HW3GB | Accepted set by TAKEMOTOMW on 11/29/2019 at 6:30:33 PM | TAKEMOTOMW Bryan Youker | 10/11/2019 15:52 10/28/2019 14:52 | Suggest routing the 4" WTR3 from the 12" WTR3/RW to the west. Otherwise suggest routing above grade instead of buried. Will review routing. Wanted an isolation valve for the whole facility. | Youker |
| Callout Re: Callout | D-302-14HW3GB D-302-14HW3GB | Accepted set by TAKEMOTOMW on 11/29/2019 at 6:30:47 PM | TAKEMOTOMW Bryan Youker | 10/11/2019 15:52 10/28/2019 14:53 | What pipe material is being shown for the GR/OF? SS? Need to add some joints for disassembly. Will revise pipe material and/or coordinate with pipe schedule. | Youker |
| Group Re: Line | D-302-14HW3GB D-302-14HW3GB | Accepted set by TAKEMOTOMW on 11/29/2019 at 6:31:14 PM | TAKEMOTOMW kmaestri | 10/11/2019 15:52 11/8/2019 10:15 | no response needed | Youker |
| Callout Re: Callout | D-302-14HW3GB D-302-14HW3GB | Accepted set by TAKEMOTOMW on 11/29/2019 at 6:31:24 PM | TAKEMOTOMW Bryan Youker | 10/11/2019 15:52 10/14/2019 16:49 | Add elevation. Will add. Also considering deleting this section and providing a more useful one. | Youker |
| Callout Re: Callout | D-302-14HW3GB D-302-14HW3GB | Accepted set by TAKEMOTOMW on 11/29/2019 at 6:31:31 PM | TAKEMOTOMW Bryan Youker | 10/11/2019 15:52 10/14/2019 16:48 | Add elevation. Will add. Also considering deleting this section and providing a more useful one. | Youker |
| Callout Re: Callout | D-302-14HW3GB D-302-14HW3GB | Accepted set by TAKEMOTOMW on 11/29/2019 at 6:32:38 PM | TAKEMOTOMW Bryan Youker | 10/11/2019 15:52 10/14/2019 16:49 | Orient FET toward the handrail for access. Agree. Will revise model. | Youker |
| Callout Re: Callout | D-302-14HW3GB D-302-14HW3GB | Accepted set by TAKEMOTOMW on 11/29/2019 at 6:33:09 PM | TAKEMOTOMW Bryan Youker | 10/11/2019 15:52 10/14/2019 16:50 | Suggest revising so that 12" FA connections do not come from the bottom of the FA line. They may accumulate water and are a dead end in the current configuration, which will require they be periodically drained. Will review and correct as necessary. | Youker |
| Text Re: Text | D-501-14HW3GB D-501-14HW3GB | Accepted set by TAKEMOTOMW on 11/29/2019 at 6:33:25 PM | TAKEMOTOMW Bryan Youker | 10/11/2019 15:52 10/14/2019 16:52 | More labels are needed. Will review final presentation for constructability. Most components shown in details or sections. So additional annotation would be piping callouts. | Youker |
| Callout Re: Callout | D-501-14HW3GB D-501-14HW3GB | Accepted set by TAKEMOTOMW on 11/29/2019 at 6:33:37 PM | TAKEMOTOMW Bryan Youker | 10/11/2019 15:52 10/14/2019 16:53 | Sump pumps are shown but no discharge piping. Yes. Not all piping shown. Will see if additional pipe shows clear enough to display. | Youker |
| Callout | D-501-14HW3GB | Accepted set by TAKEMOTOMW on 11/29/2019 at 6:33:45 PM | TAKEMOTOMW | 10/11/2019 15:52 | Does the water line need to split into 2 branches here? Can one main line feed all 6 grit units? | Youker |

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| Re: Callout | D-501-14HW3GB | | Bryan Youker | 10/14/2019 16:55 | Will review. There are deep beams in the area, and the split is along each side of a deep beam. May move the two headers feeding 3 washers closer to where the pipe turns up to the grit washer. | |
| Callout | D-501-14HW3GB | Accepted set by TAKEMOTOMW on 11/29/2019 at 6:34:48 PM | TAKEMOTOMW | 10/11/2019 15:52 | Seems simpler to just connect each water line to the main 4" WTR line rather than teeing and then splitting between two grit pumps. | Youker |
| Re: Callout | D-501-14HW3GB | | Bryan Youker | 10/14/2019 16:57 | Will review. What's not shown in this isometric is the branch piping which feeds hose valves. Those branches are located between the drops to the seal water and fluidizing connection. | |
| Cloud Callout | EP-120-14HW3GB | Accepted set by TAKEMOTOMW on 11/29/2019 at 6:35:02 PM | TAKEMOTOMW | 10/11/2019 15:52 | Why are these control stations (?) different than the ones on the other gates? View on plan for Area B is different than what is shown on this sheet. | Michaud |
| Re: Cloud Callout | EP-120-14HW3GB | | ttom | 10/14/2019 8:36 | Will double check the model for accuracy. | |
| Callout | EP-120-14HW3GB | Accepted set by TAKEMOTOMW on 11/29/2019 at 6:35:13 PM | TAKEMOTOMW | 10/11/2019 15:52 | Confirm intent is to have control stations next to each gate. For the RSPS, the gate control station are all co-located on the handrail nearby. | Michaud |
| Re: Callout | EP-120-14HW3GB | | ttom | 10/14/2019 8:37 | Intent is to have them near the gates where possible. It wasn't possible to mount the disconnects and such near the gates at RSPS due to access issues. | |
| Text | D-110-14RECYP | Accepted set by TAKEMOTOMW on 11/29/2019 at 6:35:21 PM | TAKEMOTOMW | 10/11/2019 15:53 | Pipe supports not shown. | Edwards |
| Re: Text | D-110-14RECYP | | dedwards | 10/14/2019 10:50 | Pipe supports will be designed post 60%. | |
| Callout | D-110-14ODO | Accepted set by TAKEMOTOMW on 11/29/2019 at 6:35:30 PM | TAKEMOTOMW | 10/11/2019 15:53 | Difficult to tell what is here. | Cowden |
| Re: Callout | D-110-14ODO | | scowden | 10/23/2019 10:50 | Isometric will be provided as part of 90%. | |
| Callout | D-110-14ODO | Accepted set by TAKEMOTOMW on 11/29/2019 at 6:35:43 PM | TAKEMOTOMW | 10/11/2019 15:53 | /RW | Cowden |
| Re: Callout | D-110-14ODO | | scowden | 10/23/2019 10:52 | Concur. | |
| Cloud Callout | D-301-14ODO | Accepted set by TAKEMOTOMW on 11/29/2019 at 6:35:56 PM | TAKEMOTOMW | 10/11/2019 15:53 | As drawn you cannot see the details of the piping, etc. in this area. | Cowden |
| Re: Cloud Callout | D-301-14ODO | | scowden | 10/23/2019 10:57 | Isometric will be provided as part of 90% | |
| Cloud Callout | D-301-14ODO | Accepted set by TAKEMOTOMW on 11/29/2019 at 7:01:03 PM | TAKEMOTOMW | 10/11/2019 15:53 | As drawn you cannot see the details of the piping, etc. in this area. | Cowden |
| Re: Cloud Callout | D-301-14ODO | | scowden | 10/23/2019 10:55 | Isometric will be provided as part of 90% | |
| Callout | D-301-14ODO | Accepted set by TAKEMOTOMW on 11/29/2019 at 7:02:16 PM | TAKEMOTOMW | 10/11/2019 15:53 | Label | Cowden |
| Re: Callout | D-301-14ODO | | scowden | 10/23/2019 10:54 | Concur | |
| Callout | D-301-14ODO | Accepted set by TAKEMOTOMW on 11/29/2019 at 7:02:33 PM | TAKEMOTOMW | 10/11/2019 15:53 | Water level and ranges in the tower. As drawing there is a very limited depth at the bottom before water will start entering the FA ducting from the blower. Is there a passive overflow to prevent that from happening? | Cowden |
| Re: Callout | D-301-14ODO | | scowden | 10/23/2019 10:58 | Yes...a passive overflow will be provided. | |

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| Cloud Callout Re: Cloud Callout | D-301-14ODO D-301-14ODO | Accepted set by TAKEMOTOMW on 11/29/2019 at 7:03:52 PM | TAKEMOTOMW scowden | 10/11/2019 15:53 10/23/2019 10:58 | Confirm labels for HDPE and Note 1 should not be switched. They should be switched. Will be incorporated. | Cowden |
| Callout Re: Callout | D-301-14ODO D-301-14ODO | Accepted set by TAKEMOTOMW on 11/29/2019 at 7:03:56 PM | TAKEMOTOMW scowden | 10/11/2019 15:53 /RW 10/23/2019 10:57 | Concur | Cowden |
| Callout Re: Callout | D-301-14ODO D-301-14ODO | Accepted set by TAKEMOTOMW on 11/29/2019 at 7:04:04 PM | TAKEMOTOMW scowden | 10/11/2019 15:53 10/23/2019 11:00 | Pipes under slab should be encased. Concur | Cowden |
| Callout Re: Callout | D-501-14ODO D-501-14ODO | Accepted set by TAKEMOTOMW on 11/29/2019 at 7:04:14 PM | TAKEMOTOMW scowden | 10/11/2019 15:54 10/23/2019 11:01 | This line connects down stream of the screens. The hydraulic profile indicate water level will be up to EL 2.53. Top of concrete is EL 13. Its possible the level could rise well above 2.53 especially during shut down or startup. This will cause raw sewage to be pulled into the drain manhole. Suggest looking at mitigation options or alternate configurations. Will look at max liquid level and if necessary can provide a duck-bill check valve to protect the condensate manhole. | Cowden |
| Callout Re: Callout | D-501-14ODO D-501-14ODO | Accepted set by TAKEMOTOMW on 11/29/2019 at 7:08:35 PM | TAKEMOTOMW scowden | 10/11/2019 15:54 10/23/2019 11:03 | Confirm manhole can withstand H-20 traffic loadings. Where located in an area requiring H-20 loading, a separate vault cover will be required. Detail to be modified accordingly. | Cowden |
| Callout Re: Callout | A-110-14BLDG64 A-110-14BLDG64 | Accepted set by TAKEMOTOMW on 11/29/2019 at 7:08:43 PM | TAKEMOTOMW epieteri | 10/11/2019 15:54 10/14/2019 10:44 | Slope is opposite direction. Will reverse the arrow. | Pieterick |
| Arrow Re: Arrow | CG-106-05 CG-106-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:07:14 AM | TAKEMOTOMW kmaestri | 10/11/2019 16:00 11/8/2019 9:41 | no response needed | Chandler |
| Callout Re: Callout | CG-106-05 CG-106-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:10:31 AM | TAKEMOTOMW kmaestri | 10/11/2019 16:00 11/8/2019 9:44 | Complete table. will do at 90% | Chandler |
| Callout Re: Callout | D-301-14A D-301-14A | Accepted set by TAKEMOTOMW on 11/29/2019 at 11:25:11 AM | TAKEMOTOMW lscoggin | 10/11/2019 16:00 10/15/2019 13:25 | Detail for wall penetration? Will add | Scoggins |
| Callout Re: Callout | Y-106-07 Y-106-07 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:41:55 AM | TAKEMOTOMW kmaestri | 10/11/2019 16:00 11/8/2019 13:51 | 1-1/2" RW/WTR3 will call out | Chandler |
| Callout Re: Callout | CG-106-05 CG-106-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:10:38 AM | TAKEMOTOMW kmaestri | 10/11/2019 16:00 11/8/2019 9:44 | Looks like there is a ridge here somewhere? will review | Chandler |

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| Cloud Callout | N-001-09 | None set by DG on 2/13/2020 at 9:28:08 AM | Carlos Garcia | 10/16/2019 10:40 | Typical: Drop "00" from all non-repeating setups, systems, of instruments | Foley |
| Re: Cloud Callout | N-001-09 | | jfoley | 10/28/2019 12:20 | Will do. | |
| Cloud Callout | N-001-09 | None set by DG on 2/13/2020 at 9:28:14 AM | Carlos Garcia | 10/16/2019 10:42 | Typical: All disconnects are "ZI" not "XL" | Foley |
| Re: Cloud Callout | N-001-09 | | jfoley | 10/28/2019 12:20 | Will update. | |
| Cloud Callout | N-001-09 | None set by DG on 2/13/2020 at 9:28:23 AM | Carlos Garcia | 10/16/2019 10:42 | Suffix "B" not necessary. Typical if the conflict is caused by the mis-tagged "disconnect close" which should also lose the "A" suffix | Foley |
| Re: Cloud Callout | N-001-09 | | jfoley | 10/28/2019 12:20 | Will update. | |
| Cloud Callout | N-002-09 | Rejected set by DG on 2/13/2020 at 9:31:16 AM | Carlos Garcia | 10/16/2019 10:44 | Why of what is the purpose? | Foley |
| Re: Cloud Callout | N-002-09 | | kmaestri | 11/26/2019 8:07 | | |
| Cloud Callout | N-002-09 | None set by DG on 2/13/2020 at 9:31:22 AM | Carlos Garcia | 10/16/2019 10:45 | Coming from where? | Foley |
| Re: Cloud Callout | N-002-09 | | kmaestri | 11/8/2019 10:32 | will fix | |
| Callout | N-003-09 | None set by DG on 2/13/2020 at 9:31:28 AM | Carlos Garcia | 10/16/2019 10:47 | Are Typical's marked in N-001-09 and are redlined here just emphasize the error. It will not be redlined anymore. | Foley |
| Re: Callout | N-003-09 | | jfoley | 10/28/2019 12:23 | Noted, will update. | |
| Cloud Callout | N-005-09 | None set by DG on 2/13/2020 at 9:31:36 AM | Carlos Garcia | 10/16/2019 10:52 | Apply standard for "multiple level indicators" correct suffixes are -01A &-01B | Foley |
| Re: Cloud Callout | N-005-09 | | jfoley | 10/28/2019 12:23 | Will do. | |
| Callout | N-006-09 | None set by DG on 2/13/2020 at 9:32:40 AM | Carlos Garcia | 10/16/2019 10:58 | Hollow arrow | Foley |
| Re: Callout | N-006-09 | | jfoley | 10/28/2019 12:25 | Will update. | |
| Callout | N-006-09 | None set by DG on 2/13/2020 at 9:32:31 AM | Carlos Garcia | 10/16/2019 10:58 | Note: Please ensure that all "one-off" or non-repeating setups have no numeric suffix | Foley |
| Re: Callout | N-006-09 | | jfoley | 10/28/2019 12:25 | Noted. | |
| Callout | N-006-09 | None set by DG on 2/13/2020 at 9:32:26 AM | Carlos Garcia | 10/16/2019 10:58 | Use new: TQH (VAH) is for vibration | Foley |
| Re: Callout | N-006-09 | | jfoley | 10/28/2019 12:25 | Will do. | |
| Cloud Callout | N-006-09 | None set by DG on 2/13/2020 at 9:31:46 AM | Carlos Garcia | 10/16/2019 10:58 | This is also a non-repeating instrument drop the suffix "-01" | Foley |
| Re: Cloud Callout | N-006-09 | | kmaestri | 11/8/2019 10:34 | acknowledged | |
| Cloud Callout | N-006-09 | None set by DG on 2/13/2020 at 9:31:42 AM | Carlos Garcia | 10/16/2019 10:58 | When there is a single, non-repeating instrument or set-up there is no numeric suffix drop the "-01" | Foley |
| Re: Cloud Callout | N-006-09 | | jfoley | 10/28/2019 12:24 | Will do. | |
| Callout | N-007-09 | None set by DG on 2/13/2020 at 9:32:42 AM | Carlos Garcia | 10/16/2019 11:02 | Careful with this change (typo?) Please ensure that "XL" is used throughout | Foley |
| Re: Callout | N-007-09 | | jfoley | 10/28/2019 12:28 | Will do. | |
| Callout | N-007-09 | None set by DG on 2/13/2020 at 9:32:46 AM | Carlos Garcia | 10/16/2019 11:02 | Redlining again for emphasis: apply "multiple level indicators in tank" rule of the standards | Foley |
| Re: Callout | N-007-09 | | jfoley | 10/28/2019 12:29 | Noted. | |

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| Cloud Callout | N-007-09 | None set by DG on 2/13/2020 at 9:32:54 AM | Carlos Garcia | 10/16/2019 11:02 | C1 & C2 suffixes | Foley |
| Re: Cloud Callout | N-007-09 | | jfoley | 10/28/2019 12:29 | Will add. | |
| Cloud Callout | N-007-09 | Rejected set by DG on 2/13/2020 at 9:32:58 AM | Carlos Garcia | 10/16/2019 11:02 | function of this? | Foley |
| Re: Cloud Callout | N-007-09 | | kmaestri | 11/26/2019 8:07 | | |
| Callout | N-008-09 | Accepted set by DG on 2/13/2020 at 9:33:03 AM | Carlos Garcia | 10/16/2019 11:12 | Is this hand switch local? | Foley |
| Re: Callout | N-008-09 | | kmaestri | 11/8/2019 12:41 | yes | |
| Callout | N-008-09 | Accepted set by DG on 2/13/2020 at 9:33:08 AM | Carlos Garcia | 10/16/2019 11:12 | Same panel # in N-009-09 Is this 14LCP9523? | Foley |
| Re: Callout | N-008-09 | | kmaestri | 11/8/2019 12:42 | yes, panel is shown on multiple PIDS. | |
| Callout | N-008-09 | None set by DG on 2/13/2020 at 9:37:31 AM | Carlos Garcia | 10/16/2019 11:13 | This leads to #9523 | Foley |
| Re: Callout | N-008-09 | | kmaestri | 11/8/2019 12:43 | will fix | |
| Callout | N-019-09 | None set by DG on 2/13/2020 at 10:01:51 AM | Carlos Garcia | 10/16/2019 11:13 | There is no "C3" suffix in standard. Typical | Foley |
| Re: Callout | N-019-09 | | jfoley | 10/28/2019 12:31 | Will update. | |
| Callout | N-021-09 | None set by DG on 2/13/2020 at 10:02:01 AM | Carlos Garcia | 10/16/2019 11:22 | Digital arrow | Foley |
| Re: Callout | N-021-09 | | jfoley | 10/28/2019 12:31 | Will update. | |
| Cloud Callout | N-021-09 | None set by DG on 2/13/2020 at 10:08:05 AM | Carlos Garcia | 10/16/2019 11:22 | Non-repeating. Drop the suffix "01" | Foley |
| Re: Cloud Callout | N-021-09 | | jfoley | 10/28/2019 12:32 | Will do. | |
| Callout | N-022-09 | None set by DG on 2/13/2020 at 10:08:12 AM | Carlos Garcia | 10/16/2019 11:22 | Typical. Also need a "C1" suffix | Foley |
| Re: Callout | N-022-09 | | jfoley | 10/28/2019 12:32 | Will update. | |
| Cloud Callout | N-030-09 | None set by DG on 2/13/2020 at 10:08:19 AM | Carlos Garcia | 10/16/2019 11:22 | This is a unique drawing. As such, there is no need for the numeric suffix. Drop all "01" suffixes and fix the open/close suffixes with C1 & C2 | Foley |
| Re: Cloud Callout | N-030-09 | | jfoley | 10/28/2019 12:33 | Will do. | |
| Cloud Callout | N-030-09 | | Carlos Garcia | 10/16/2019 11:22 | Do we need a start/stop on this? | Foley |
| Re: Cloud Callout | N-030-09 | | kmaestri | 11/8/2019 12:49 | we do not believe a remote start stop is required. | |
| Re: Re: Cloud Callout | N-030-09 | | DG | 2/13/2020 10:10 | discuss @ 90% | |
| Cloud Callout | N-031-09 | Accepted set by DG on 2/13/2020 at 10:16:36 AM | Carlos Garcia | 10/16/2019 11:22 | Have the grayed out signals been removed? | Foley |
| Re: Cloud Callout | N-031-09 | | kmaestri | 11/8/2019 12:50 | no, they are existing signals that are not being modified. new signals. | |
| Text | N-031-09 | None set by DG on 2/13/2020 at 10:16:42 AM | Carlos Garcia | 10/16/2019 11:22 | Unique drawing. Suffixes not wanted. Marked here again just for identifications purposes. This error is now considered "typical" and will not be called out again. | Foley |
| Re: Text | N-031-09 | | jfoley | 10/28/2019 12:33 | Noted. | |
| Cloud Callout | N-031-09 | None set by DG on 2/13/2020 at 10:16:48 AM | Carlos Garcia | 10/16/2019 11:22 | Pressure controller? Use "PC" | Foley |
| Re: Cloud Callout | N-031-09 | | jfoley | 10/28/2019 12:33 | Will do. | |
| Callout | N-033-09 | Rejected set by DG on 2/13/2020 at 10:16:56 AM | Carlos Garcia | 10/16/2019 11:22 | What are these? XXX? AET, AY? | Foley |
| Re: Callout | N-033-09 | | kmaestri | 11/26/2019 8:05 | | |

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| Text | N-033-09 | None set by DG on | Carlos Garcia | 10/16/2019 11:22 | Unique - Drop Suffixes | Foley |
| Re: Text | N-033-09 | 2/13/2020 at 10:16:59 AM | jfoley | 10/28/2019 12:34 | Will do. | |
| Callout | N-033-09 | None set by DG on | Carlos Garcia | 10/16/2019 11:23 | Use "UA" | Foley |
| Re: Callout | N-033-09 | 2/13/2020 at 10:17:09 AM | jfoley | 10/28/2019 12:34 | Will do. | |
| Cloud Callout | N-034-09 | None set by DG on | Carlos Garcia | 10/16/2019 11:26 | Use C1 and "START" | Foley |
| Re: Cloud Callout | N-034-09 | 2/13/2020 at 10:17:13 AM | jfoley | 10/28/2019 12:34 | Will do. | |
| Text | N-034-09 | None set by DG on | Carlos Garcia | 10/16/2019 11:26 | Drop all "01" suffixes | Foley |
| Re: Text | N-034-09 | 2/13/2020 at 10:17:16 AM | jfoley | 10/28/2019 12:35 | Will do. | |
| Callout | CG-106-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:09:52 AM | TAKEMOTOMW | 11/10/2019 20:17 | What is this line? | Chandler |
| Re: Callout | CG-106-05 | | SC036293 | 11/8/2019 14:47 | Existing gravel road edge, will be removed from drawing at 90%. | |
| Callout | CG-106-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:10:13 AM | TAKEMOTOMW | 11/10/2019 20:17 | Surrounding area drains to this gravel area. Any concerns with drainage in this area? | Chandler |
| Re: Callout | CG-106-05 | | SC036293 | 11/8/2019 14:48 | Area will be paved and graded to drain to the NE of Vacuum Truck facility at 90%. | |
| Text | CG-106-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:10:51 AM | TAKEMOTOMW | 11/10/2019 20:17 | General note. Only a few existing contours are labeled in the background. How will cut and fill quantities be determined? | Chandler |
| Re: Text | CG-106-05 | | SC036293 | 11/8/2019 14:51 | Cut and fill quantities are calculated from surface models in CAD. Additional labels will be added to the contours at 90%. | |
| Text | CG-107-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:12:57 AM | TAKEMOTOMW | 11/10/2019 20:18 | General note. Only a few existing contours are labeled in the background. How will cut and fill quantities be determined? | Chandler |
| Re: Text | CG-107-05 | | SC036293 | 11/8/2019 14:49 | Cut and fill quantities are calculated from surface models in CAD. Additional labels will be added to the contours at 90%. | |
| Callout | CG-107-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:13:12 AM | TAKEMOTOMW | 11/10/2019 20:18 | Not clear what existing grade is here. Confirm adequate drainage away from the low point indicated. | Chandler |
| Re: Callout | CG-107-05 | | SC036293 | 11/8/2019 14:50 | Per 10/22 client meeting, additional catch basins and a stormwater pump station will be added in this area to collect runoff. Additional grading information to be provided at 90%. | |
| Callout | CG-301-05 | Accepted set by TAKEMOTOMW on 11/29/2019 at 10:14:10 AM | TAKEMOTOMW | 11/10/2019 20:18 | Does the 2" IPA pipe need to be this deep? | Chandler |
| Re: Callout | CG-301-05 | | SC036293 | 11/8/2019 14:53 | No, will coordinate making IPA shallower at 90%. | |
| Callout | R-010-14HW3 | Accepted set by TAKEMOTOMW on 11/29/2019 at 9:34:38 AM | TAKEMOTOMW | 11/26/2019 8:04 | Provide access opening over grit effluent box. | Youker |
| Re: Callout | R-010-14HW3 | | Bryan Youker | 11/8/2019 13:31 | Will add access. | |
| Highlight | G-090-01 | | MBritten | 11/26/2019 8:08 | OVERFLOW WEIR EL 23.0 San Jose- Santa Clara Regional Wastewater Facility 30 | |

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| Re: Highlight | G-090-01 | Rejected set by DG on 2/12/2020 at 12:42:47 PM None set by DG on 2/12/2020 at 12:43:46 PM Accepted set by DG on 2/12/2020 at 12:43:52 PM Rejected set by DG on 2/12/2020 at 12:43:56 PM Completed set by DG on 2/12/2020 at 12:44:00 PM | kmaestri | 11/8/2019 10:27 | | |