Outfall 200 Mercury Treatment Facility Construction Contract Tour Script

Tour Day – 3 January 2018

LOCATION: IN Y-12 NEW HOPE CENTER PARKING IN FRONT OF THE BUS DOOR

"Welcome to the Y-12 National Security Complex. My name is, _____ and I'm with the Department of Energy's Oak Ridge Office of Environmental Management. Today we will be conducting a tour of the areas that will be home to the Outfall 200 Mercury Treatment Facility."

"In order to make the source selection process equitable, I'll simply be reading from a tour script and won't be answering any questions during the tour. Please do not feel slighted by my refusal to answer questions. My refusal to answer is intended to increase fairness of the source selection process, so that all offerors have equal information about the project. You are encouraged to jot down any questions you have during the tour on the provided notecards and submit them to one of the DOE employees here in attendance. Please be advised that no questions should be directed towards the DOE contractor personnel that are present on today's site tour."

Have all DOE contractor personnel raise their hand for everyone's awareness. Tour guide motions to identify DOE employees in attendance.

"Please remember that only the Draft Request for Proposal has been released. Your questions will serve to improve the Final Request for Proposal and won't be answered directly. Please submit any additional questions or comments you think of after the tour to the procurement mailbox in accordance with the process identified on the procurement website."

"Safety shoes are not required; however, shoes worn should be closed-toe, non-slip soles, above the ankle if possible, and made of leather or other substantive materials. For your safety, no high heels are permitted on the tour."

"Security requirements dictate that all participants remain with the group for the duration of the tour. There are also several prohibited items that are not allowed at the Y-12 Site. These items include real or simulated firearms and ammunition, stun guns, alcoholic beverages, illegal drugs and paraphernalia, explosives, hand-held weapons (including knives with blades more than three inches long), chemical irritants, and items prohibited by state and federal law. Contraband brought to the Y-12 site will be confiscated. While cell phones are allowed, no photography or video recording of any kind is allowed on the tour."

"Please be aware that all hand carried items such as briefcases, handbags, and purses may be inspected by security. DOE is not responsible for securing any items during the tour. Please keep hand-carried items to a minimum. Please take this time to drop off anything you may not need for the site tour."

Pause as needed for individuals to drop off items not needed on the tour.

"To ensure everyone who signed up to take the tour is present please answer "Here" or "Present" when your name is called."

Tour guide calls each name listed on the registration of site tour people and marks each name off as people answer

"Now, please board the bus, thank you."

LOCATION: IN THE PARKING LOT AT THE BUS LOCATION

Monitor passenger boarding to check for badges and prohibited items. Ensure all participants have boarded.

ON BOARD BUS AS BUS LEAVES THE PARKING LOT

Bus stops briefly at the stop sign as it leaves the New Hope parking lot.

"Please look to your right. That gate is the commercial vendor gate, also known as Portal 13, for the Y-12 National Security Complex. This is the preferred gate that all commercial vehicles should use during the hours of Monday through Friday from 5:00 AM to 12:30 PM. Portal 23, where we will be entering the site, is open twenty-four hours per day and seven days per week for employee and commercial vehicle access. Scheduling commercial vehicles to enter through Portal 13 can typically reduce potential delays at the checkpoints during peak transit hours."

Bus continues to the Y-12 main security gate. Tour guide begins reading.

"This site tour is being narrated to enable familiarity with the areas that are sited for construction of the Outfall 200 Mercury Treatment Facility. As you may already know from reading the documents released as part of the Draft Request for Proposals, there are three main areas associated with the facility. We'll be visiting the Headworks site first and will be exiting the bus

to view the site. Next, we'll be driving roughly 2/3rds of a mile along the Pipeline Corridor, and finally ending up at the Treatment Plant site. Combined, these areas make-up the overall facility. The first page of your handout is an overall site plan that shows the location of these areas within Y-12."

"Before all of that we'll be going through a security gate, so please have your identification ready for inspection."

"This is Portal 23, the main gate for the Y-12 National Security Complex and is the only gate open twenty-four hours a day and seven days a week."

Bus departs, and drives to the main gate at Y-12. The bus stops at the gate for inspection. The bus proceeds on an instantaneous route to the Outfall 200 Headworks area. Bus stops at the small parking area on the right, just past the Outfall 200 Bridge on E Road.

When the bus stops, the tour leader stands and says this prior to departing the bus:

"This is the Headworks site. As you are exiting the bus, please recall that no photography or video recording of any kind is allowed on the tour. Please watch for vehicle traffic, and keep to the left side of the road, away from the fence."

The tour leader exits the bus and leads the group down E Road to the intersection of the alley and E road. The tour leader gets the attendees attention.

HEADWORKS DISCUSSION

As the tour leader stands on the site and motions toward the concrete structure that is outfall 200. Tour leaders' back is toward the creek and he is facing north. The tour leader points to the left and down to the creek.

"That concrete structure down there is Outfall 200. This is the start of East Fork Poplar Creek. Water from our north and west drains to this site. Just to the left of the access stairs is the flow augmentation structure and to my right is the creek bank. Both the flow augmentation structure and this vegetation will be removed by another DOE contractor during early site preparation activities. Please join me around the corner."

Tour guide leads the group around the corner on E Road and down the slope onto the headworks site to the small round concrete pad with his back toward the outfall.

"First, as with the flow augmentation and creek channel vegetation, I am going to point out items being demolished and removed, or installed during early site preparation work by other DOE contractors. Most of the structures existing here today will be removed prior to the successful offeror's mobilization to the site. These items include:"

Tour guide points to each item as it is listed, pause after each bullet is read so that the group can follow and look in the direction of the item….go slow, so that people understand that much of what they see today is being removed during early site preparation.

Pause

- "The steam and condensate return lines that run across the south side of the site, along with their supports and foundations. These are removed from the west side of E Road to the site boundary on the east side of the site."

Pause

- "Existing concrete slabs, asphalt, and miscellaneous foundations and structures will also be removed and backfilled to grade, with the exception of the abandoned-in-place concrete pad in the southwest corner."

Pause

- "This chemical storage tank and the building on the corner are being removed."

Pause

- "The low above grade conduit as well as the overhead electrical lines and utility pole are being removed."

Pause

- "The small pipe bridge crossing the creek will be removed as well."

Pause

"Also, work completed by another DOE contractor includes the following:"

- "Using the existing tall steam condensate pipe bridge and re-routing the existing steam condensate return line to a new location across the creek."

Pause

- "Installation of secant pile retaining walls on both sides of the creek bank is being performed by another DOE contractor. Please refer to the Headworks site plan drawing

included in your package for siting of the secant pile walls. The future intake structure will tie into both secant pile walls, and the south wall will also facilitate future excavation."

Pause

- "Utilities will be extended to the site by other DOE contractors. This includes conduits for Y-12 communications and Emergency Notifications brought from the existing utility pole to the south site boundary and potable water from an existing main, near the orange stakes you see in the south west corner of the site. Construction water can be made available from the existing hydrant, currently covered by the shiny metal box on the south east corner of the site."

Point to the power pole south of 3rd Street and the intersection of 3rd St and E Road. Then to the fire hydrant at 3rd St. and the adjacent southeast area of the site, near 3rd Street.

- "13.8 kV overhead electrical will be brought to the southeast of the site. This is also where temporary construction power will be made available."

Pause

- "Just to summarize the situation with utilities. Temporary construction electrical power and construction water, but no sewer, is available during construction. The sewer utility is not being brought to the Headworks site boundary. Temporary use of available utilities during construction are at no charge to the construction contractor."

"Now we are going to talk about work associated with the forthcoming construction contract."

"OK, now that we have summarized Early Site Preparation activities completed by other DOE contractors, let's briefly review what the successful offeror will construct at the Headworks. Please refer to the second page of your handouts for the Headworks site plan as I explain the location for major headworks facilities."

"Again, please refer to handout number 2 in your package. An intake structure (item 1), which will tie into the future secant pile retaining walls, will be located in the creek channel. It diverts water by gravity flow through a manual bar rack and into two concrete channels. The smaller channel (item 2a) is for lower base flows and the larger channel (item 2b) for higher storm flows. A motorized weir gate controls flow into each channel. The water in the channels passes through a Parshall flume for flow measurement and a vortex grit chamber for solids removal."

Pause and show the base flow and storm flow channels on the drawing

"Items 3a, base flow, and 3b, storm flow on the drawing are the grit removal chambers."

"Water continues through the channels and into either the base flow pump station (item 4) or the storm flow pump station (item 5). The base flow pump station uses submersible pumps to transfer water through the pipeline to the Treatment Plant, which we will be visiting later on the tour. The storm flow submersible pumps transfer water to the storm water storage tank (item 6) for later release. These are located in this area on the drawing."

Pause and point to the location of the grit chambers, pump stations and storm water tank on the drawing

Pause and point to the grit pump building on the drawing

"Piping and mechanical equipment are also located in the grit pump building. The main level of the grit pump building (item 7) mostly contains electrical and instrumentation equipment. The grit dewatering and packaging equipment is located outside the building to the south."

Pause and point out the grit dewatering pad on the drawing

"There is also a small pre-engineered chemical feed building (item 8) for treatment chemical storage, with piping to the inlet channels and pump station."

Pause and point out the chemical feed building on the drawing.

"There are controls located at the Treatment Plant for equipment at the Headworks."

"The deepest concrete foundations, under the storm flow grit chamber, storm flow pump station wet well, and the grit pump building, require micro-piles drilled into the bedrock underneath."

"The secant pile retaining wall that will be provided on the south side of the creek will provide shoring during excavation for the pump stations and grit pump building. The successful offeror is responsible for the remaining shoring around the excavation, and for managing water during excavation and construction activities."

Pause

"When the site is backfilled, final grade will be approximately four to five feet above the current elevation."

Pause and motion that this grade is well-above the current grade.

"The top of the storm water storage tank concrete slab will be at final grade, with drilled piers required into the bedrock underneath. The site plan shows piping, duct banks, and storm drains that will also be installed with these facilities."

Pause and point out the storm water storage tank on the drawing.

"As you see, the work area at the Headworks has a limited laydown area. The area you can see at the east end of the site is available, along with the small grassed area to the west across E road"

Point to the east end of the site. Then to the west side to the laydown areas.

"Y-12 has an operating permit that requires their personnel to have periodic access to water monitoring and treatment facilities near the construction site, specifically buildings 9417-10, 9422-14, 9422-06, and a new chemical storage tank that will sit next to building 9417-10. All of these small metal buildings and the new chemical storage tank are adjacent to, but actually outside the construction area."

"The successful offeror is responsible for disposal of solid waste, including excavated soil and rock. This waste will be disposed at the on-site landfill, which is located on the other side of this ridge."

Point out the top of Chestnut Ridge, to the south.

"We estimate that the roundtrip from this site to the landfill is about seven miles. Trucks will leave the site on 3rd Street and proceed west to a road that crosses over the ridge to the landfill on the other side of the ridge. Trucks are then routed from the landfill onto a public road and make their way back to the construction site. Trucks are not allowed to return along the same route as delivery due to the road being too steep."

Then, point to E Road and the Beta-1 building across the creek.

"E Road will be closed to traffic, except for emergency and security patrols and those government vehicles necessary to support Y-12's facilities. The alley on the north side of the creek will remain closed to all traffic throughout the project. 3rd street must remain open during construction, and will also be the primary access for the project's construction traffic and waste shipments."

"Now it's time to load back on the bus. Please watch for traffic."

Tour leader leads attendees back along E Road to the bus and loads everyone on the bus. Bus driver makes a U-turn and travels E Road back toward Third Street. Bus makes a left turn on to Third Street. Bus is traveling east on Third Street.

At the shiny metal hydrant cover about 600 feet from the corner of E Road and 3rd Street the bus pulls to the left of the road onto the shoulder and stops for the tour guide to point out the beginning of the pipeline corridor.

PIPELINE ROUTE DISCUSSION

"Please focus your attention to the left side of the bus. The Headworks discharge pipe connects to the transfer pipeline in this area."

Pause and point toward the area where the headworks and pipeline corridor connect.

"The pipeline begins at the Headworks site, which we just visited, and it runs between the existing steam line and the Creek. The pipeline consists of a 20-inch HDPE pipe set at grade on a gravel base. A communications conduit, plus a conduit for heat trace power for part of the route, will be routed in parallel with the transfer pipe."

"There is a concrete pipe anchor where the HDPE transfer pipeline connects to the Headworks piping. Bollards are required at identified locations along the pipeline route. There are also crossover stairs along the route for pedestrian access to the creek. The 3rd page of your handout shows the general location and approximate pipeline route. See the specifications and drawings for more detail."

The bus then continues down Third Street. The tour guide looks toward the left side of the bus.

"The pipeline continues generally along the existing stream. We want to minimize any work that disturbs the vegetative zone along the creek, while also working around existing Y-12 facilities along the route. "

The bus pulls over onto the left side of Third Street at C Road so that there is a clear view down C Road from Third Street. The tour guide looks toward the left side of the bus.

"Please focus your attention toward the left side of the bus. There are three (3) under road pipe crossings along the transfer pipeline route, including one here at C Road. Other DOE contractors will install a pipe casing for routing the HDPE pipe under the road, along with a buried section of conduit and pull boxes on either end, by the time the successful offeror mobilizes to the site."

Bus continues down Third Street. The bus stops just before the Third Street Bridge on the right shoulder. The tour guide draws attendee attention to the left.

"Please focus attention to your left. As was the case for the C Road crossing, another DOE contractor will have installed a pipe casing and underground conduit under the road here during early site preparation. The HDPE pipeline and conduit will be routed between the existing structures you see and the creek."

The tour guide then draws attendee attention to the east (right) side.

"Now please focus your attention to the right side of the bus. The HDPE pipeline and conduit continue along the south side of the creek past the abandoned switchyard to another concrete pipe anchor."

Bus driver drives on around the corner on Third Street and pulls to the right on the shoulder of Third Street where the future pipe bridge crosses the creek. Just past the telephone pole in front of the small creek pipe bollards.

"A new pipe bridge is being installed across the creek by another DOE contractor, along with pipe supports and bridge foundations. Another DOE contractor is also clearing the vegetation along both creek banks at the location of the pipe bridge."

"On this side of the creek, the pipeline and conduit will transition to below grade. The underground pipe will pass roughly under where we are currently parked"

Pause and point out where the pipeline goes under the road, on Third Street past the power poles.

"The under-road portion of the pipeline, conduit, and discharge pipe are installed by another DOE contractor during early site preparation. Closing roads during early site preparation reduces construction schedule risk. The successful offeror is responsible for tying into both ends of the under-road pipes and using the conduit to pull wire. This is different than the other under road crossings in that there is are tie-in locations here versus a pipe casings at the other locations."

"Lastly, the successful offeror is responsible for installing the new outfall structure that releases treated water back to east fork poplar creek."

"Now, please focus your attention to the left side of the bus, and we will point out some of the utility locations that will also be installed by a separate contractor during early site preparation."

Pause and point to the 3rd St and B Road intersection and the corner of the parking lot across the railroad track.

"Like at the Headworks, 13.8 kV overhead electrical power will be routed to the site boundary. A new pole will be installed on the other side of the railroad track, off this corner of the asphalt parking area. This is also where temporary construction power will be made available."

Tour guide points to the front-right of the bus at the corner of the current parking lot where the electrical pole is being added and power dropped down.

"A potable water line and storm drain will have been extended from the west side of B Road to the same general area for tie-ins."

Bus then proceeds to the parking lot where the treatment plant will be built.

TREATMENT PLANT DISCUSSION

The bus turns left on B Road and then right into the parking lot. Bus will pull to an empty area near the middle of the parking lot. Tour guide leads the group out of the bus. Tour leader will state as departing the bus:

"As you are exiting the bus, please recall that no photography or video recording of any kind is allowed on the tour"

Once gathered off the bus, the Tour Leader turns around and faces B Road on the east side of the site.

"This is the final stop on today's tour, and is the site where the Treatment Plant will be constructed. As you see, this site is larger than the Headworks work area. There is very little demolition being performed by another DOE contractor at this site. Only about 365 linear feet of the railroad track along with the railroad ties and 1500 square feet of asphalt are being removed and backfilled to grade by another DOE contractor."

Tour guide points to the railroad track area.

Tour guide directs attention to the site boundaries as he is describing them.

"The overall site has a generally rectangular shape"

Tour guide turns around and faces east, which is opposite B Road in the general direction of the New Hope Center.

"The general site boundaries are from the first alley beyond the concrete slab to the east."

Tour guide points to the east and then turns to the right and points.

"3rd Street to the south"

Tour guide points south, and turns to the right and points.

"B Road to the west"

Tour guide points west, and again turns to the right.

"And finally 2nd Street to the north"

Tour guide points north and remains facing north.

"A reasonably-sized material and equipment staging area is available to our right. Employees must park personal vehicles outside the footprint, and only in designated parking lots. Company vehicles must park only within the construction sites or designated parking lots."

"So, the Treatment Plant will mainly be located within the asphalt parking area where we stand. You may follow along on the Utilities relocation plan, which is the 4th page of your handout, as we summarize the site utility locations."

Tour guide directs attention to the opposite northeast corner toward the UCOR field trailer (windowless grey trailer).

"Existing potable water lines will have been extended across 2nd Street to the site for additional tie-ins. "Conduits for future tie-ins to communications and Y-12 Emergency Notification

systems will have been installed from the existing utility pole across 2nd Street to the site boundary, near the water line tie-ins."

Tour guide turns to the left, still facing generally north, but at a little left. This is roughly 10 O'clock.

"To the west, conduits will also have been installed from the existing utility pole to the northwest site boundary for additional power and communications tie-ins."

Tour guide then turns to roughly the 4 O'clock position (facing generally north east)

"And finally, the sanitary sewer will have been extended from an existing manhole to the southeast of the site, off the side of the asphalt parking lot, for future tie-in."

Tour guide directs attention to the southeast corner, near the existing light pole.

"Now that we've gone over all the site boundaries and where site utilities are being brought to the site by other DOE Contractors, I'll be discussing what the successful offeror is responsible for."

"First, the successful offeror will be responsible for installing yard piping, including storm drains and utilities into the facility, and a new potable water loop and fire hydrants between the southwest and northeast water line tie-in locations."

"The Treatment Plant has outdoor, outdoor covered, and indoor areas, first I'll point out and describe the outdoor and outdoor covered areas on the drawing as well as here on the parking lot where they'll be located."

"Before construction of outdoor, outdoor covered, or indoor areas can happen, demolition of the existing asphalt and underlying concrete slab and footings from the former building at the site has to occur."

"In addition, excavation for the treatment building and below-grade structures that are a maximum of roughly twenty feet below us also has to occur."

"Waste from demolition and excavation, will be disposed at the on-site landfill across Chestnut Ridge. As you recall, we discussed the route for waste shipments during the Headworks tour."

"Please refer to the 5th page of your handout for the Treatment Plant site plan as we review the general layout of the outdoor areas first. The transfer pipeline from the Headworks will enter the Treatment Plant and discharge to the equalization tank (item 1), which will be located west of the treatment building near where the bus entered the parking lot."

Pause and point out the equalization tank on the drawing

"The equalization tank concrete foundation will be at grade, and requires drilled concrete piers into the underlying bedrock."

"Next, water flows from the equalization tank into the outdoor chemical reaction tanks (item 2), which are supplied chemicals from the adjacent outdoor covered bulk chemical storage tanks (item 3)."

Pause and point out the area with the reaction tanks, chemical tanks, and tanker unloading on the drawing

"The chemical reaction tanks are elevated above the equalization tank transfer pumps to provide gravity flow through the treatment plant."

"The bulk chemical storage tanks will not only be covered, but also in a diked area. There are chemical tanker unloading areas adjacent to the bulk chemical storage tanks."

"Water flows from the outdoor chemical reaction tanks, to outdoor inclined plate clarifiers (item 4)."

Pause and point out the clarifiers and sludge tanks on the drawing (next to the outside wall of the treatment building)

"Liquid from the TOP of the inclined plate clarifiers flows into the treatment building and through media filters (item 5). The filtered water is collected in a below grade clear-well, not shown on the handout. Water flows from the clear-well through the Treatment Plant's effluent discharge pipe back to a new outfall that will be constructed in East Fork Poplar Creek."

"Sludge from the BOTTOM of the inclined plate clarifiers is pumped to the outdoor sludge settling tanks (item 6). These tanks settle-out most of the contaminants we are after. From there,

pumps move the sludge inside the building to filter presses where the material is dewatered. The solids from dewatering are collected, loaded on a truck, and disposed in an appropriate landfill. Separated water is returned back to the equalization tank to repeat the process."

"This site tour is only an overview and excludes many design feature details, so please refer to the specifications and drawings posted on the website for those details."

"The treatment building itself is a two story metal building with a footprint of roughly 22,000 square feet. The south wall of the treatment building will be approximately along the edge of the asphalt parking lot. The area to the south will require fill to bring it up to final grade."

Pause and point out the treatment building on the drawing, which also shows the driveway on the south side.

"To monitor and control all the components associated with the facility, the Headworks and Treatment Plant are connected by a dedicated fiber optic cable that will be routed in the conduit being installed along the transfer pipeline."

"Supervisory Control and Data Acquisition (SCADA) hardware and software is housed here in the treatment building in a facility control room. Programming of the SCADA will be performed by another DOE contractor."

"Acceptance test procedures will be prepared by another DOE contractor. As installation of systems are completed, final system acceptance tests will be performed in accordance with the test procedures. The successful offeror will be responsible for providing labor and equipment to support performance of system acceptance tests. The system acceptance test directors will be provided by another DOE contractor."

"The successful offeror will be responsible for the site during construction. This will include coordinating with the Y-12 operating contractor."

"This concludes the tour. Please re-board the bus so that we can return to the New Hope Center."

Tour guide returns to the bus for the ride back to the New Hope Center.

As the bus nears the exit gate of Y-12

"Please pass your visitor badges forward as this is the conclusion of the tour."

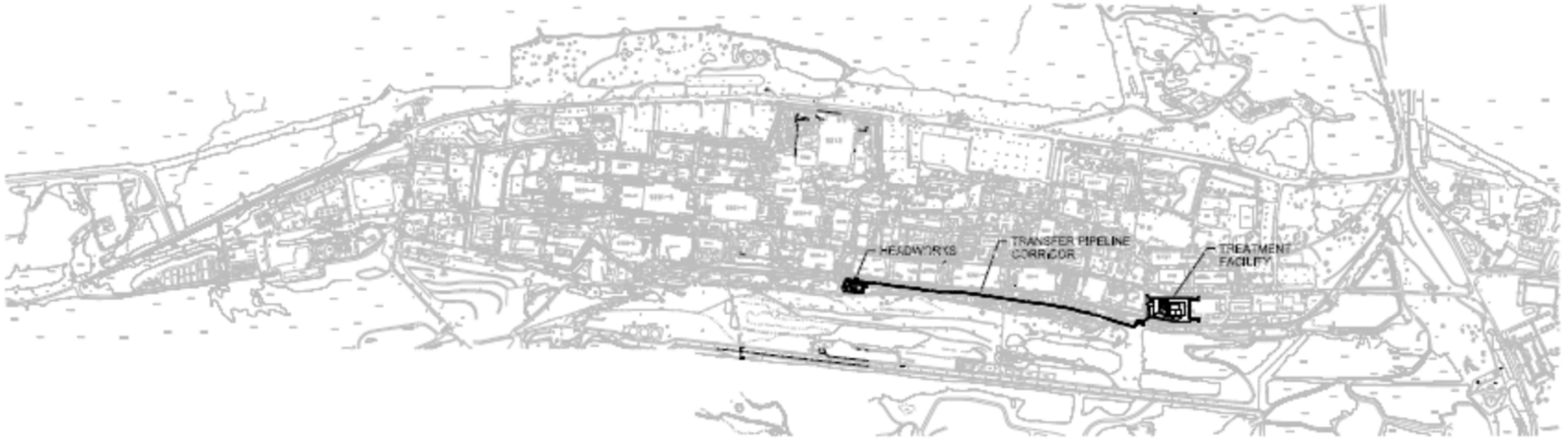
Collect visitor badges and ask the driver to stop at the exit gate badge drop off box. Drop badges in the drop box.

"Thank you for joining the tour today. As a reminder, nothing stated or presented during this site tour is to be construed as a revision to the Draft RFP. Information provided today is at a summary level and subject to change."

"If you have any questions or comments to submit today, please provide your completed notecard or cards to one of the DOE employees at this time."

"Thanks again for attending today's site tour. Please remember to check for cell phones and other items you may have been carrying as you leave the bus."

END



PROJECT LOCATION MAP

OVERALL SITE PLAN

HANDOUT 1 – OVERALL SITE PLAN

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B ISSUED FOR CONSTRUCTION

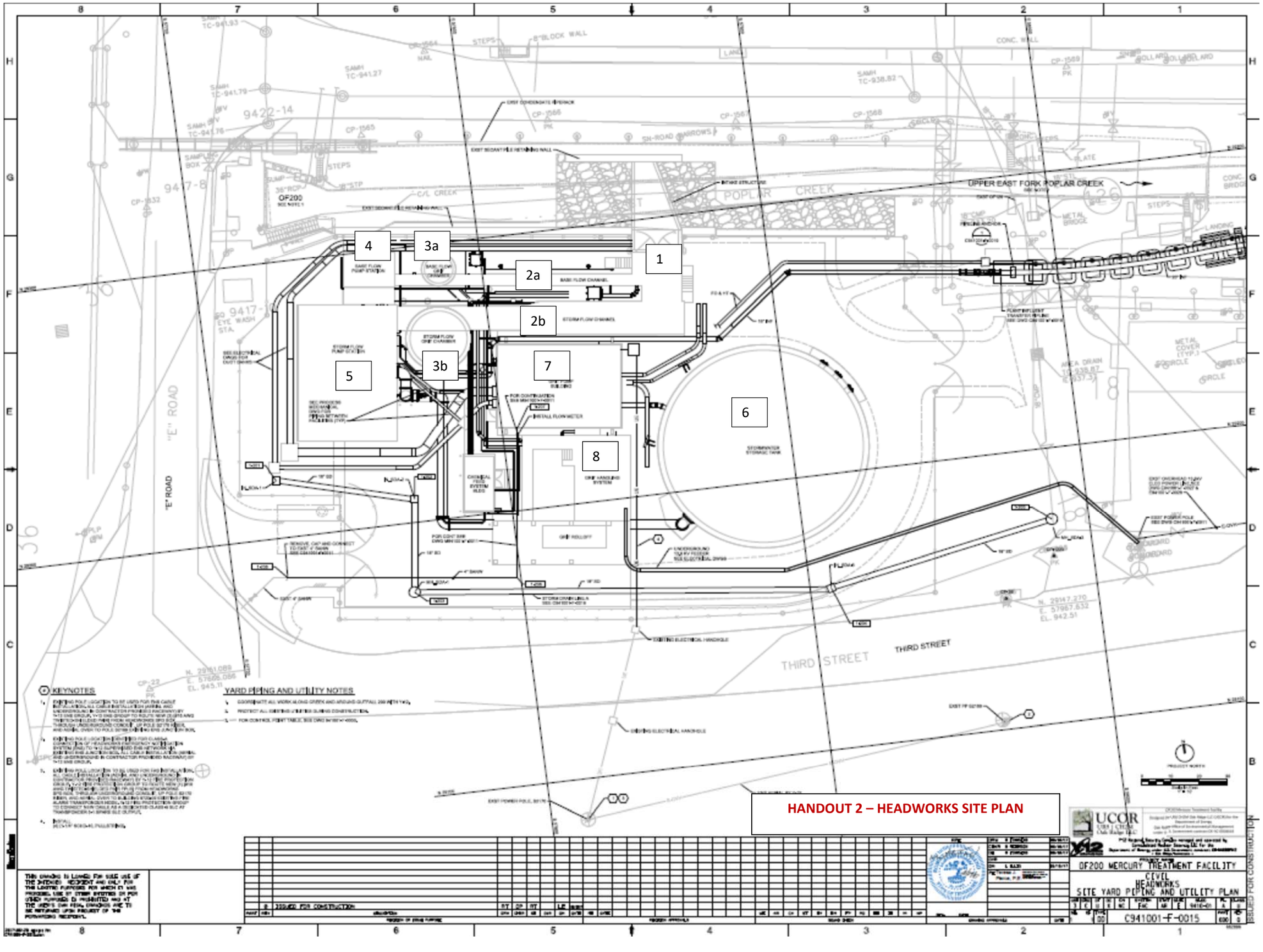
UCOR URS | CH2M Wash Hedger LLC

DF200 MERCURY TREATMENT FACILITY

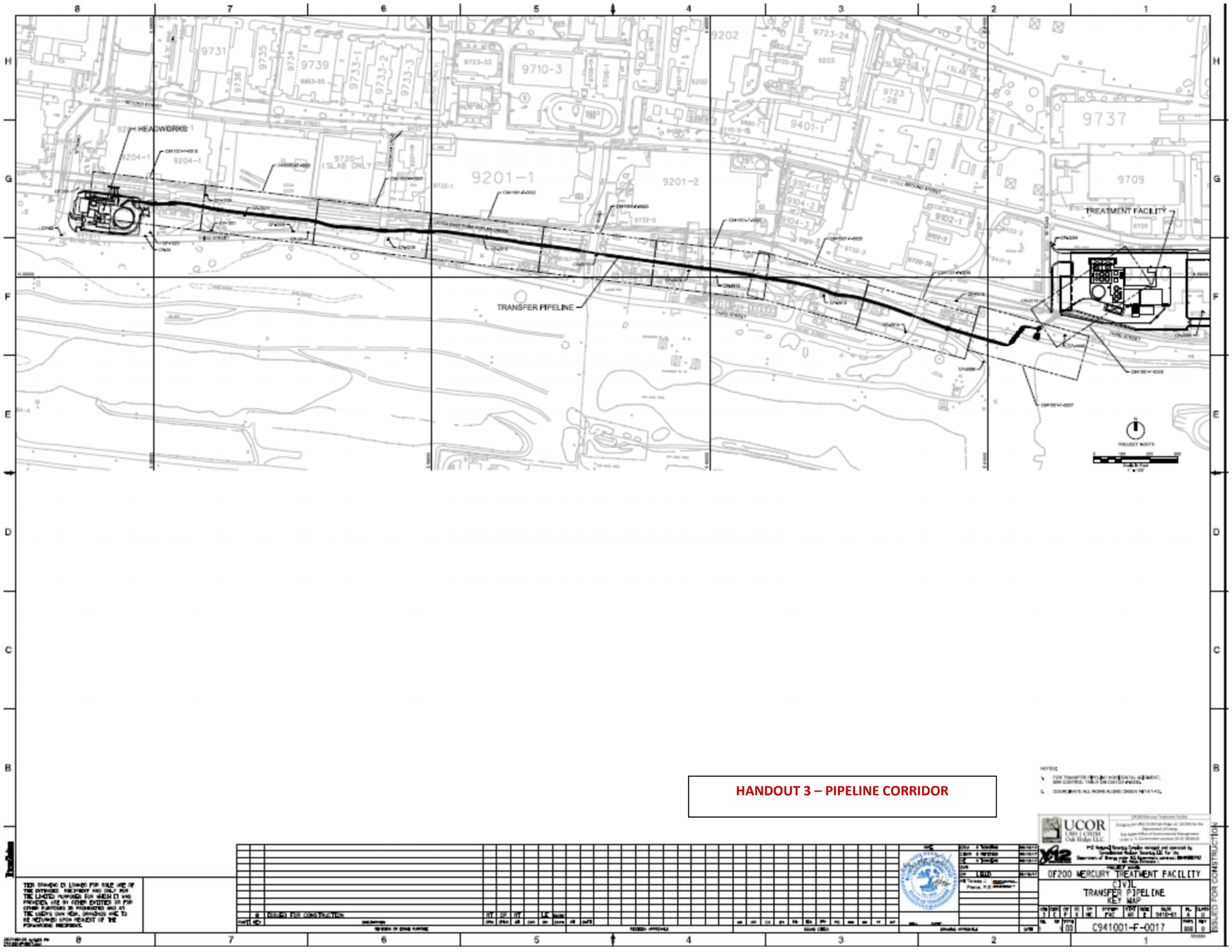
CIVIL
OVERALL SITE
LOCATION, KEY MAP AND ACCESS PLAN

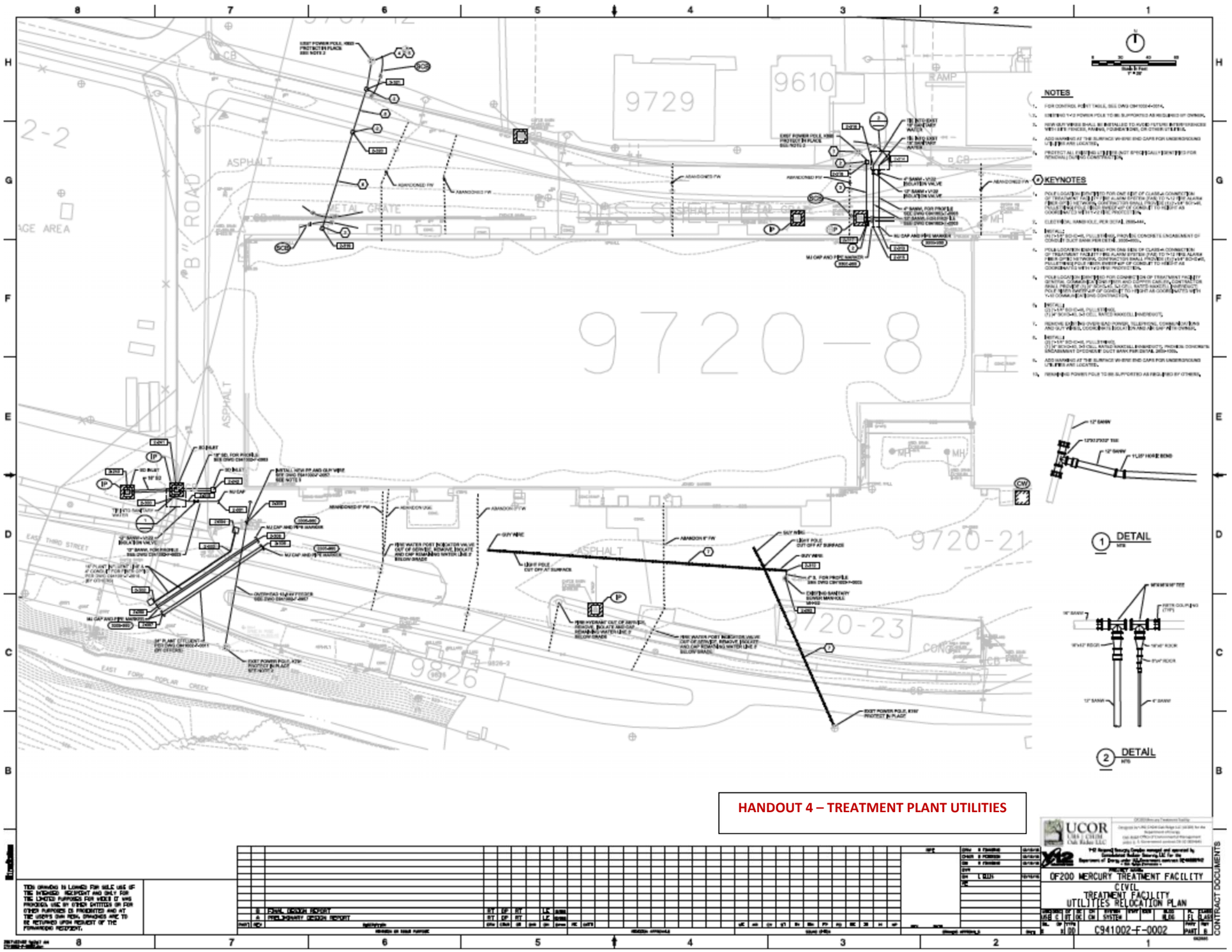
C941001-F-0009

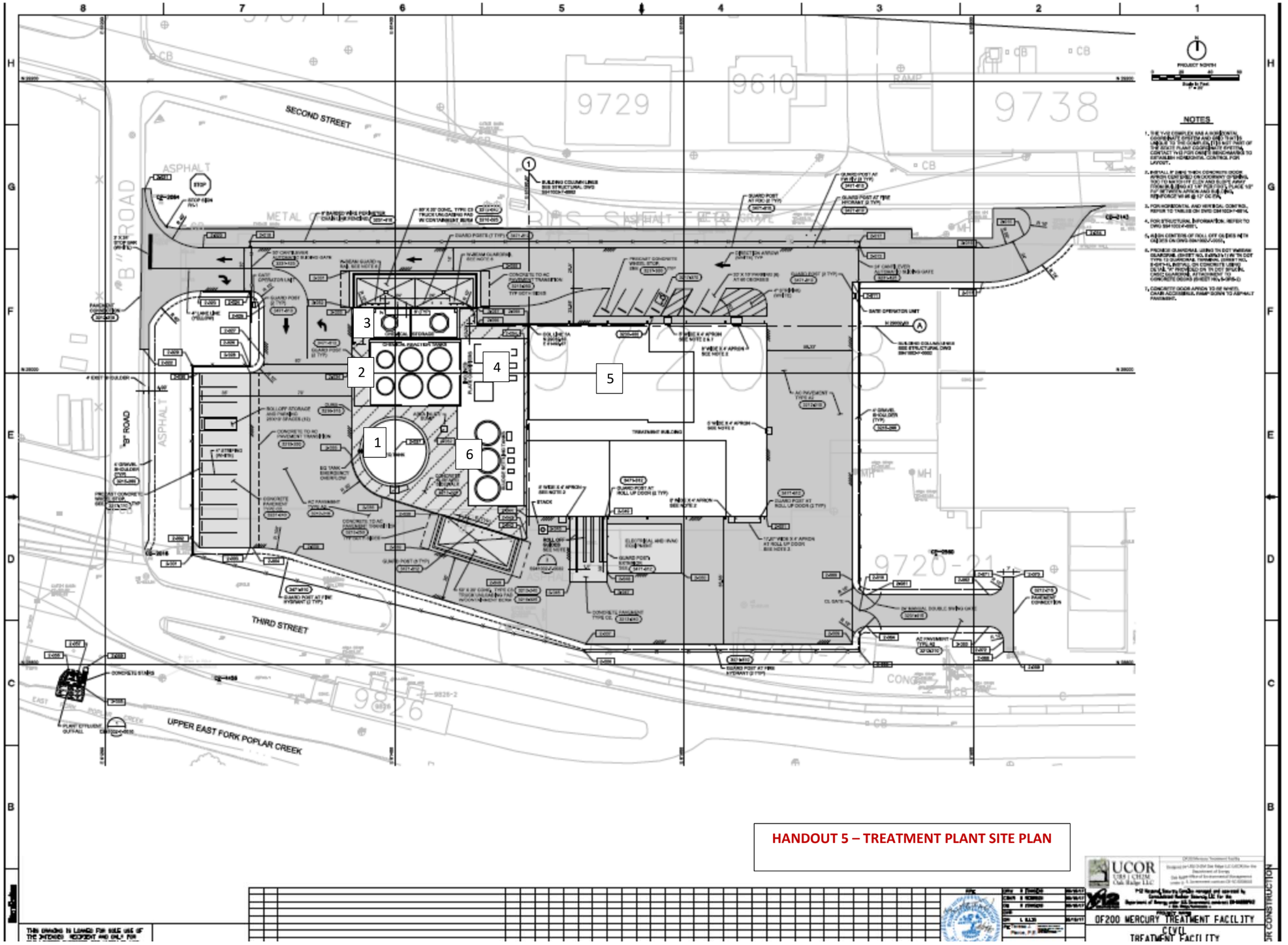
ISSUED FOR CONSTRUCTION



HANDOUT 2 – HEADWORKS SITE PLAN


9202 HEADWORKS
TRANSFER PIPELINE
TREATMENT FACILITY
9731
9735
9734
9739
9736
9733-1
9733-2
9733-3
9710-3
9723-33
9723-24
9723-28
9737
9709
9401-1
9201-1
9201-2
9204-1
9720-1 (SLAB ONLY)
9102-1
9104-1
9104-2
9104-3
PROJECT NORTH
HANDOUT 3 – PIPELINE CORRIDOR
UCOR
OF200 MERCURY TREATMENT FACILITY
CIVIL
TRANSFER PIPELINE
KEY MAP
C941001-F-0017
ISSUED FOR CONSTRUCTION


9729
9610
9720-8
9720-21
9720-23
9826
ASPHALT
METAL GRATE
EAST THIRD STREET
EAST FORK POPLAR CREEK
RAMP
NOTES
KEYNOTES
1 DETAIL
2 DETAIL
HANDOUT 4 – TREATMENT PLANT UTILITIES
OF200 MERCURY TREATMENT FACILITY
CIVIL
TREATMENT FACILITY
UTILITIES RELOCATION PLAN
C941002-F-0002
CONTRACT DOCUMENTS



HANDOUT 5 – TREATMENT PLANT SITE PLAN