

GENERAL NOTES

- ALL CONSTRUCTION AND MATERIALS TO COMPLY WITH CITY OF WICHITA STANDARD CONSTRUCTION SPECIFICATIONS AND DETAILS, UNLESS OTHERWISE INCLUDED IN THE CONTRACT DOCUMENTS.
- EACH BIDDER SHALL VISIT THE SITE OF THE PROJECT BEFORE SUBMITTING THE PROPOSAL FOR THIS WORK SO THAT THEY WILL BE FULLY INFORMED OF THE EXISTING FIELD CONDITIONS AND THE OBSTACLES WHICH MIGHT BE ENCOUNTERED. UPON AWARD OF THE CONTRACT THE CONTRACTOR WILL NOT BE GRANTED ANY ADDITIONAL COMPENSATION WITH REGARDS TO TIME AND MONEY FOR CONDITIONS THAT MAY HAVE BEEN EVALUATED DURING ANY INSPECTION OF THE SITE.
- AT LEAST 72 HOURS PRIOR TO BEGINNING ANY EXCAVATION (EXCLUDING WEEKENDS AND HOLIDAYS), THE CONTRACTOR SHALL CONTACT THE KANSAS ONE-CALL SYSTEM, A UTILITY LOCATION SERVICE, AT (316)-687-2470 OR 811 TO REQUEST THE LOCAL UTILITY COMPANIES TO LOCATE ANY EXISTING LINES WITHIN THE PROJECT AREA.
- THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:

EMERGENCY DISPATCH: 911
CITY OF WICHITA WATER & SEWER: 316-219-8921
CITY OF WICHITA STORMWATER: 316-268-4090
CITY OF WICHITA TRAFFIC: 316-268-4034
- THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY DIRECTLY ABUTTING THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF SEVEN (7) DAYS ADVANCE NOTICE PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL NOT START WORK ON THE PROJECT UNTIL THE PROJECT INSPECTOR IS ASSIGNED AND IS PRESENT ON THE SITE. ANY WORK DONE WITHOUT INSPECTION WILL BE REQUIRED TO BE UNCOVERED FOR INSPECTION AT THE CONTRACTORS EXPENSE.
- ALL ELEVATIONS SHOWN ARE NAVD88 DATUM. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL RE-ESTABLISH HORIZONTAL AND VERTICAL CONTROL POINTS AND VERIFY THEIR ACCURACY.
- EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE DRAWINGS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. IT SHOULD BE NOTED THAT OTHER BURIED LINES AND CABLES MAY EXIST WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL HAVE ALL BURIED LINES LOCATED AND FLAGGED IN THE FIELD PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL CONTACT THE ENGINEER AND REVIEW ANY BURIED LINES LOCATED IF CONFLICTS EXIST. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING TRENCHING OPERATIONS TO AVOID DAMAGING THESE LINES. ANY LINES DAMAGED SHALL BE REPLACED OR REPAIRED IMMEDIATELY AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL EXPOSE AND VERIFY THE VERTICAL AND HORIZONTAL LOCATION OF EXISTING UTILITIES THAT ARE IN POTENTIAL CONFLICT WITH THE PROPOSED IMPROVEMENTS. THE UTILITY LOCATES SHALL BE PERFORMED PRIOR TO THE START OF CONSTRUCTION AND ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS AND SECTION CORNERS. THE CONTRACTOR SHALL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS AND SECTION CORNERS WHICH ARE DAMAGED OR DESTROYED BY CONSTRUCTION OPERATIONS. SUCH IRONS AND SECTION CORNERS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.

- EASEMENTS AND RIGHTS-OF-WAY PROVIDED BY THE OWNER FOR THE PROJECT ARE SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACQUISITION OF ANY ADDITIONAL TEMPORARY EASEMENTS OR RIGHTS-OF-WAY DESIRED TO USE IN COMPLETING THE WORK.
- THE CONTRACTOR SHALL CONTAIN THEIR OPERATIONS TO PERMIT LOCAL AND EMERGENCY TRAFFIC THROUGH AND ACROSS CONSTRUCTION AT ALL TIMES. THE CONTRACTOR SHALL UTILIZE WARNING SIGNS, FLASHING LIGHTS, BARRICADES, AND FLAGMEN IN COMPLIANCE WITH THE LATEST VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES INCLUDING ANY TREES REMOVED, TREE TRIMMINGS, AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITES PROVIDED BY THE CONTRACTOR. THESE SITES SHALL ALSO BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE, AND SITE LOCATION. LOCATIONS THAT, IN THE OPINION OF THE ENGINEER, WILL LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED. ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WILL REQUIRE A KANSAS STATE BOARD OF AGRICULTURE PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES, FLOODWAYS, OR WETLANDS IS SUBJECT TO U.S. CORPS OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS MAY REQUIRE ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED DISPOSAL LOCATION.
- THE CONTRACTOR SHALL AVOID REMOVAL OR TRIMMING OF ANY TREES OR SHRUBS WHERE POSSIBLE. WHERE THE CONTRACTOR BELIEVES THE REMOVAL OR TRIMMING IS UNAVOIDABLE, THIS WORK SHALL BE COORDINATED WITH THE ENGINEER. TREE TRIMMING/REMOVAL SHALL BE COMPLETED IN ACCORDANCE WITH U.S. FISH AND WILDLIFE SERVICE, AND KANSAS DEPARTMENT OF WILDLIFE, PARKS, AND TOURISM RESTRICTIONS. FULL TREE REMOVAL SHALL BE NOTED ON THE PLANS AND SHALL BE BID AS "TREE REMOVED, LARGE", "TREE REMOVED, SMALL", OR "TREE ROW REMOVED".
- THE CONTRACTOR SHALL RESTORE ALL DITCHES, SWALES, ROAD SHOULDERS, AND BANKS TO THEIR ORIGINAL SLOPES AND GRADES EXCEPT AS SHOWN OTHERWISE. WHERE EXISTING ENTRANCE PIPE, DRAINAGE PIPE, SIGNS, FENCES, LANDSCAPING, ETC., CONFLICT WITH THE PROPOSED WORK HEREIN, THEY SHALL BE REMOVED AND REPLACED OR RESET, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- THE CONTRACTOR SHALL INSTALL AND/OR MAINTAIN EROSION CONTROL METHODS AS SPECIFIED ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL THROUGH THE COMPLETION OF THIS PROJECT. INSTALLATION OF THESE EROSION CONTROL DEVICES DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF ABATING SOIL EROSION. THE FOLLOWING QUANTITIES ARE ESTIMATED, AND SHOULD BE CONSIDERED THE MINIMUM EFFORT REQUIRED.

SILT FENCE BARRIER 133 L.F.
- THE CONTRACTOR SHALL TAKE CARE TO PREVENT SILT AND DEBRIS FROM ENTERING ANY STORM DRAINAGE SYSTEM DURING CONSTRUCTION. PIPES OR STRUCTURES WHICH CONTAIN MATERIALS FROM THE CONTRACTORS ACTIVITIES SHALL BE THOROUGHLY CLEANED BY THE CONTRACTOR, AT THEIR OWN EXPENSE, PRIOR TO THE FINAL INSPECTION.
- RECONSTRUCTION OF EROSION CONTROL MEASURES WHICH ARE DESTROYED BY WIND, FLOOD, FIRE, OR BY THE ACTIONS OF THE CONTRACTOR OR OTHERS SHALL BE PERFORMED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST. WHERE ADJUSTMENTS IN QUANTITIES ARE REQUIRED BY FIELD CONDITIONS, THERE SHALL BE NO ADJUSTMENT IN UNIT PRICE.
- ALL LAWN/TURF AREAS DISTURBED BY CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE RESTORED WITH THE SAME GRASS/SOD AS EXISTING. RESTORATION OF DISTURBED AREAS SHALL INCLUDE, BUT NOT BE LIMITED TO, TOP SOIL PREPARATION, SEEDING, MULCHING, AND/OR RE-SEEDING. ALL SEEDING/SODDING WORK SHALL BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD SPECIFICATIONS. ALL COSTS FOR THIS WORK SHALL BE SUBSIDIARY TO "SITE RESTORATION".
- THE CONTRACTOR SHALL SEED ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WITH TEMPORARY RYE GRASS. RYE GRASS SEED SHALL BE PLANTED AT A MINIMUM RATE OF SIX (6) POUNDS PER ONE THOUSAND (1,000) SQUARE FEET. THIS TEMPORARY SEEDING MAY BE OMITTED ONLY IF PERMANENT SEEDING/SODDING IS APPLIED. TEMPORARY SEEDING OR PERMANENT SEEDING/SODDING SHALL BE APPLIED WITHIN 14 DAYS AFTER THE AREA HAS BEEN DISTURBED.
- OWNER SHALL BE RESPONSIBLE FOR CONSTRUCTION STAKING. STAKING AND BENCH MARKS DESTROYED DURING CONSTRUCTION OPERATIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL MAINTAIN UNINTERRUPTED UTILITY SERVICE TO ADJACENT FACILITIES DURING CONSTRUCTION, UNLESS OTHERWISE APPROVED BY OWNER.
- WRITTEN REQUEST TO THE OWNER WILL BE REQUIRED 72 HOURS PRIOR TO A SCHEDULED UTILITY OUTAGE. THE FIRE DEPARTMENT MUST BE NOTIFIED OF ANY FIRE HYDRANTS OR WATER MAINS TAKEN OUT OF SERVICE.
- PROPERTIES WITHIN THE PROJECT LIMITS MAY HAVE UNDERGROUND SPRINKLER SYSTEMS IN PUBLIC RIGHT-OF-WAY WHICH CONFLICT WITH NEW CONSTRUCTION. CONTRACTOR WILL BE REQUIRED TO REMOVE SUCH IMPROVEMENTS SHOULD THEY NOT BE REMOVED BY THEIR OWNER AT THE TIME OF CONSTRUCTION OF THE PROJECT. THE CONTRACTOR SHALL REMOVE, REPLACE OR RESET ANY SPRINKLER HEADS, PIPES, AND/OR VALVES WHICH CONFLICT WITH CONSTRUCTION. ANY SPRINKLER HEADS, PIPES, AND/OR VALVES DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE REPLACED IN KIND AT NO ADDITIONAL COST TO THE OWNER. PORTIONS OF UNDERGROUND SPRINKLER SYSTEMS NOT IN CONFLICT WITH NEW CONSTRUCTION SHALL BE PROTECTED FROM DAMAGE AND SHALL REMAIN IN PLACE.
- THE CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION, TYPE, SIZE AND CLASS OF EXISTING WATERLINES PRIOR TO MAKING CONNECTIONS. EXISTING WATERLINE LOCATIONS AS SHOWN ON THE DRAWINGS ARE APPROXIMATE. CONTRACTOR SHALL MAKE ADJUSTMENTS AS REQUIRED. PROVISION AND INSTALLATION OF PIPE ADAPTORS, SHORT SECTION OF PIPE, AND COUPLERS SHALL BE AT NO ADDITIONAL COST TO THE PROJECT.
- THE CONTRACTOR MUST SCHEDULE THE CONNECTIONS TO THE EXISTING WATER DISTRIBUTION SYSTEM WITH THE CITY SUCH THAT THERE IS MINIMUM DISRUPTION TO THE SYSTEM.
- THE CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH TO REMAIN OPEN OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.
- OPENING AND CLOSING WATER VALVES SHALL BE DONE SLOWLY TO PREVENT DAMAGE TO THE WATER DISTRIBUTION SYSTEM FROM WATER HAMMER. ALL VALVES CLOSED BY THE CONTRACTOR MUST BE REOPENED AS NEW CONSTRUCTION PERMITS. PROJECT INSPECTOR MUST ASCERTAIN THAT ANY VALVE CLOSED BY THE CONTRACTOR IS REOPENED. CONTRACTOR WILL BE PERMITTED TO OPERATE WATER VALVES ONLY WHEN THE PROJECT INSPECTOR ASSIGNED TO THE PROJECT IS PRESENT.
- MAINTAIN A MINIMUM OF 10-FOOT HORIZONTAL SEPARATION BETWEEN ALL WATER LINES (MAINS, SERVICES, AND FIRE HYDRANTS) AND ALL SANITARY SEWER LINES (MAINS, SERVICES, AND MANHOLES). ALL SEPARATIONS DISTANCES ARE TO BE MEASURED FROM EDGE-TO-EDGE, AT THE CLOSEST POINT.

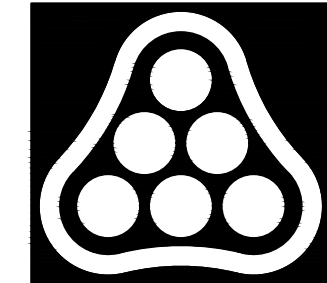
- THE CONTRACTOR SHALL ISOLATE AND DRAIN THE 9.7 MG RESERVOIR AND SUPPLY LINES AS REQUIRED FOR THE WORK PER PHASE D & E. THE WORK ASSOCIATED WITH DRAINING/FILLING RESERVOIRS FOR ALL REMAINING PHASES WILL BE COMPLETED BY WILDCAT CONSTRUCTION. ALL WATER DRAINED SHALL BE DE-CHLORINATED AND DISCHARGED INTO THE STORM WATER SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A TEMPORARY DISCHARGE PERMIT THROUGH THE LOCAL KDHE OFFICE. THE CITY AND ENGINEER WILL PROVIDE ASSISTANCE IN OBTAINING THE PERMIT. THE RESERVOIR SHALL BE DISINFECTED AND RETURNED INTO SERVICE IN ACCORDANCE WITH AWWA REQUIREMENTS. THE RESERVOIR SHALL REMAIN ISOLATED FROM THE SYSTEM UNTIL IT IS VERIFIED THAT THE WATER QUALITY IN THE RESERVOIR MEETS ALL REQUIREMENTS. ALL EQUIPMENT THAT WILL BE IN DIRECT CONTACT WITH THE RESERVOIR SHALL BE NSF 61 CERTIFIED.
- ANY DEWATERING OF THE VALVE VAULTS SHALL BE PERFORMED BY THE CITY.
- ANY WORK ASSOCIATED WITH DEWATERING OF THE PIPES SHALL BE CONSIDERED SUBSIDIARY TO THE VALVE VAULTS IMPROVEMENTS.
- STEEL PIPE SHALL CONFORM TO AWWA C200 AND HAVE A MINIMUM THICKNESS OF 0.5". STEEL PIPE SHALL HAVE A CEMENT LINER CONFORMING TO AWWA C205 AND SHALL HAVE A POLYURETHANE COATING CONFORMING TO AWWA C222 AT A MINIMUM 30 MILS DRY FILM THICKNESS.
- MAINTAIN A MINIMUM OF 2-FOOT VERTICAL SEPARATION BETWEEN ALL WATER LINES (MAINS AND SERVICES) AND ALL GRAVITY SANITARY SEWER LINES (MAINS, SERVICES, AND MANHOLES) AT CROSSINGS. ALL SEPARATION DISTANCES ARE TO BE MEASURED FROM EDGE-TO-EDGE, AT THE CLOSEST POINT.
- MAINTAIN A MINIMUM OF 2-FOOT VERTICAL SEPARATION BETWEEN ALL WATER LINES (MAINS AND SERVICES) AND ALL PRESSURIZED SANITARY SEWER LINES (FORCE MAINS AND SERVICES) AT CROSSINGS. WATERLINES MUST ALWAYS BE PLACED ABOVE PRESSURIZED SANITARY SEWER LINES WHERE THEY CROSS. ALL SEPARATION DISTANCES ARE TO BE MEASURED FROM EDGE-TO-EDGE, AT THE CLOSEST POINT.
- CONTRACTOR TO VERIFY SCHEDULE AND METHOD OF PLUGGING AND DRAINING ALL PIPE AND RESERVOIRS WITH THE CITY AND COORDINATE WITH WILDCAT CONSTRUCTION.
- ALL VALVES, MANUAL OPERATORS, AND ELECTRIC OPERATORS SHALL BE PROVIDED BY THE CITY. CONTRACTOR SHALL PROVIDE DRIVE SHAFTS AND OTHER NECESSARY ACCESSORIES FOR INSTALLATION.
- THE CONTRACTOR SHALL RESTRAIN ALL BENDS, VALVES, AND TEES THROUGH THE USE OF A RESTRAINED JOINT PIPE AS SPECIFIED, AT THE MINIMUM LENGTHS AS SHOWN IN THE PLANS. OTHER METHODS OF RESTRAINT MAY BE SUBMITTED FOR APPROVAL AT LEAST 14 DAYS PRIOR TO BIDDING. RESTRAINED JOINT DUCTILE IRON PIPE SHALL BE U.S. PIPE TR FLEX, AMERICAN FLEX RING, OR APPROVED EQUAL, IN ACCORDANCE WITH CITY OF WICHITA STANDARD SPECIFICATIONS. RESTRAINED JOINT PVC PIPE SHALL BE NORTH AMERICAN CERTA-LOK PIPE, OR APPROVED EQUAL, IN ACCORDANCE WITH CITY OF WICHITA STANDARD SPECIFICATIONS. WELDED STEEL PIPE, PER PROJECT SPECIFICATIONS, MAY BE USED AS RJ PIPE. THE USE OF MECHANICAL JOINT RESTRAINTS (MEGALUG OR APPROVED EQUAL) ON MJ DUCTILE IRON FITTINGS WHERE RJ FITTINGS ARE NOTED IS ACCEPTABLE WHEN THE MECHANICAL JOINT RESTRAIN IS ATTACHED TO PROPOSED DUCTILE IRON PIPE.
- CONTRACTOR SHALL PROVIDE DISPOSAL OF ALL REMOVED VALVES AND OTHER MATERIALS
- THE CONTRACTOR SHALL SIZE ALL EQUIPMENT USED FOR BYPASS PUMPING TO ADEQUATELY HANDLE THE 25,000 GPM FLOWRATE AS REQUIRED. THE PROPOSED BYPASS PUMPING SYSTEM SHALL BE APPROVED BY ENGINEER AND THE CITY OF WICHITA. THE APPROVAL OF THE BYPASSING SYSTEM IN ADVANCE BY THE ENGINEER OR THE CITY SHALL IN NO WAY RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY AND/OR PUBLIC LIABILITY. ALL EQUIPMENT USED IN THE BYPASS PUMPING PROCESS SHALL BE NSF 61 CERTIFIED AND AWWA CERTIFIED AS REQUIRED. THE METHOD USED TO DISCHARGE THE BYPASS LINE INTO THE 9.7 MG RESERVOIR SHALL BE APPROVED BY THE ENGINEER AND THE CITY. CONSTRUCTION OF THE BYPASS LINE SHALL BE DONE TO MAINTAIN TWO-WAY TRAFFIC ALONG MUSEUM BOULEVARD AND SHALL BE APPROVED BY THE ENGINEER AND THE CITY.
- ALL HARDWARE (BOLTS, NUTS, ETC.) USED ON FLANGED CONNECTIONS SHALL BE STAINLESS STEEL. ALL HARDWARE USED ON MJ FITTINGS SHALL BE CORTEN STEEL.
- FLANGE GASKET MATERIAL SHALL BE FULL FACE RED RUBBER.
- PRESSURE TESTING OF INSTALLED PIPE/VALVES WILL NOT BE REQUIRED. VISUAL INSPECTION OF INSTALLED PIPES FOR LEAKS SHALL BE COMPLETED FOLLOWING INSTALLATION.
- THE PROPOSED PHASING INCORPORATES THE WORK IN THIS PROJECT AND THE WORK IN THE HESS FLOW THROUGH SITE VALVE IMPROVEMENTS. THE CONTRACTOR SHALL COORDINATE THEIR WORK WITH (WILDCAT CONSTRUCTION, TAYLOR ROBILLARD, 316-945-9408). ALL TEMPORARY PLUGS, FLAG GATE LOCKS, AND RESERVOIR DRAINING/FILLING (EXCEPT FOR THE 9.7 MG RESERVOIR) WILL BE COMPLETED BY WILDCAT CONSTRUCTION. PROPOSED VALVES INSTALLED BY WILDCAT CONSTRUCTION SHALL BE OPERATED BY WILDCAT CONSTRUCTION.

UTILITY CONTACTS

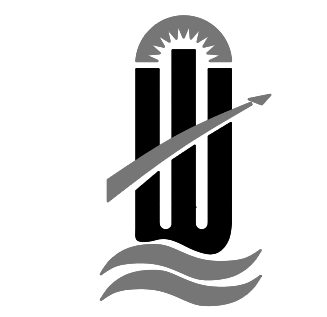
JEFF CROSBY
WICHITA SANITARY SEWER
8TH FLOOR - CITY HALL
455 N. MAIN
WICHITA, KS 67202
316-268-4329

GREG LOLLEY
WICHITA WATER
8TH FLOOR - CITY HALL
455 N. MAIN
WICHITA, KS 67202
316-268-4334

JOE HICKLE
WICHITA STORM SEWER
7TH FLOOR - CITY HALL
455 N. MAIN
WICHITA, KS 67202
316-268-4307



PEC
PROFESSIONAL ENGINEERING CONSULTANTS
303 SOUTH TOPEKA
WICHITA, KS 67202
316-262-2691 www.pec1.com



CITY OF WICHITA



CONSTRUCTION PLANS

FOR

**HESS PUMP STATION
SITE VALVE REPLACEMENT
(PHASES 3-5/D-J)**

**PAUL GUNZELMAN, P.E. - CITY ENGINEER
CITY OF WICHITA PROJECT NO. 448-2021-**

Issue:		

JOB NO.	35-200335-004-0042
DATE	SEPTEMBER 2024
PM	TBK
DESIGNED BY	KJW
DRAWN BY	KTD
CHECKED BY	RWG

GENERAL NOTES

C-002

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CONSTRUCTION PLANS

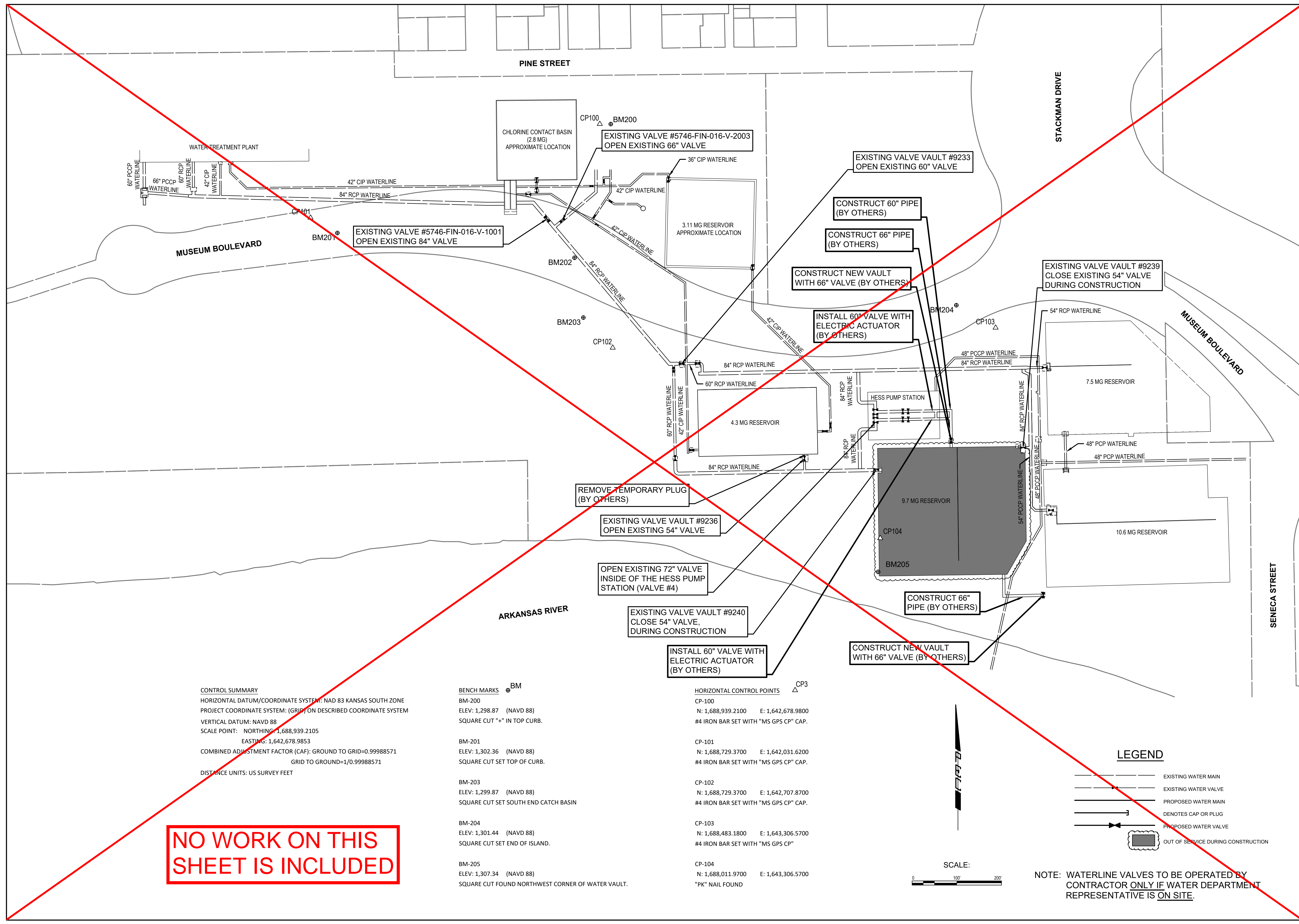
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KEY MAP & BUBBLE MAP (PHASE E)

C-004

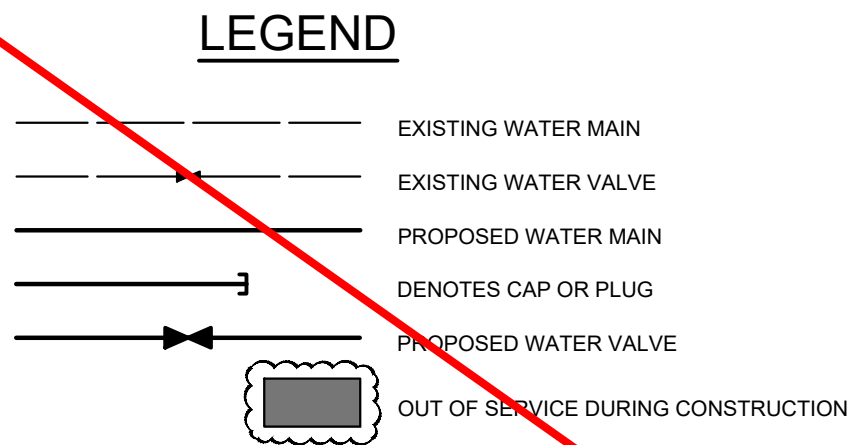
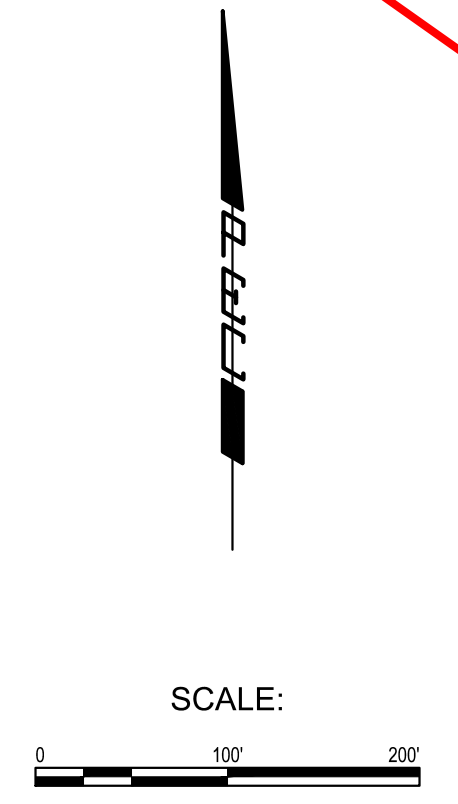


NO WORK ON THIS SHEET IS INCLUDED

CONTROL SUMMARY
 HORIZONTAL DATUM/COORDINATE SYSTEM: NAD 83 KANSAS SOUTH ZONE
 PROJECT COORDINATE SYSTEM: (GRID) ON DESCRIBED COORDINATE SYSTEM
 VERTICAL DATUM: NAVD 88
 SCALE POINT: NORTHING: 1,688,939.2105
 EASTING: 1,642,678.9853
 COMBINED ADJUSTMENT FACTOR (CAF): GROUND TO GRID=0.99988571
 GRID TO GROUND=1/0.99988571
 DISTANCE UNITS: US SURVEY FEET

BENCH MARKS BM
 BM-200
 ELEV: 1,298.87 (NAVD 88)
 SQUARE CUT "+" IN TOP CURB.
 BM-201
 ELEV: 1,302.36 (NAVD 88)
 SQUARE CUT SET TOP OF CURB.
 BM-203
 ELEV: 1,299.87 (NAVD 88)
 SQUARE CUT SET SOUTH END CATCH BASIN
 BM-204
 ELEV: 1,301.44 (NAVD 88)
 SQUARE CUT SET END OF ISLAND.
 BM-205
 ELEV: 1,307.34 (NAVD 88)
 SQUARE CUT FOUND NORTHWEST CORNER OF WATER VAULT.

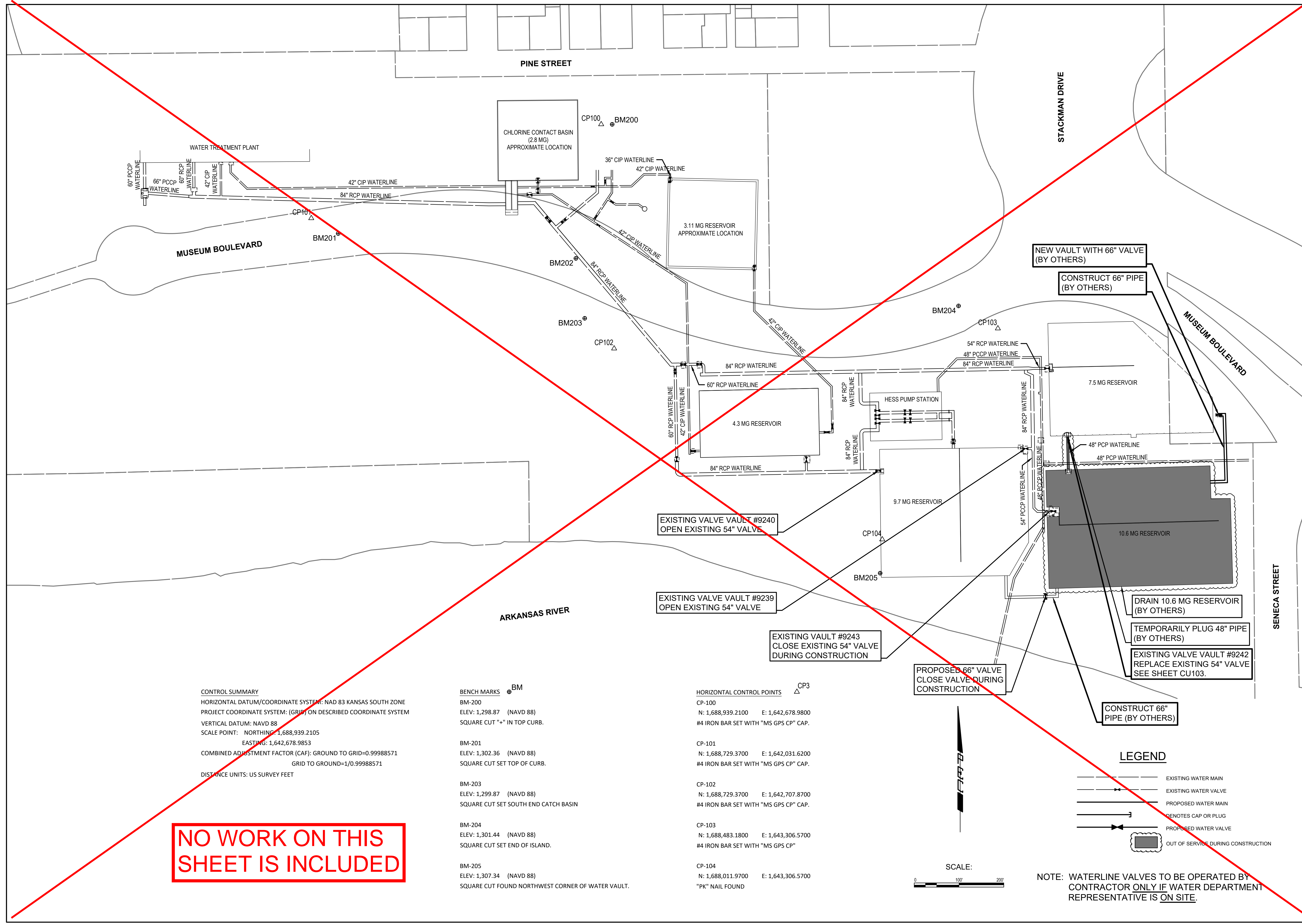
HORIZONTAL CONTROL POINTS CP3
 CP-100
 N: 1,688,939.2100 E: 1,642,678.9800
 #4 IRON BAR SET WITH "MS GPS CP" CAP.
 CP-101
 N: 1,688,729.3700 E: 1,642,031.6200
 #4 IRON BAR SET WITH "MS GPS CP" CAP.
 CP-102
 N: 1,688,729.3700 E: 1,642,707.8700
 #4 IRON BAR SET WITH "MS GPS CP" CAP.
 CP-103
 N: 1,688,483.1800 E: 1,643,306.5700
 #4 IRON BAR SET WITH "MS GPS CP"
 CP-104
 N: 1,688,011.9700 E: 1,643,306.5700
 "PK" NAIL FOUND



NOTE: WATERLINE VALVES TO BE OPERATED BY CONTRACTOR ONLY IF WATER DEPARTMENT REPRESENTATIVE IS ON SITE.

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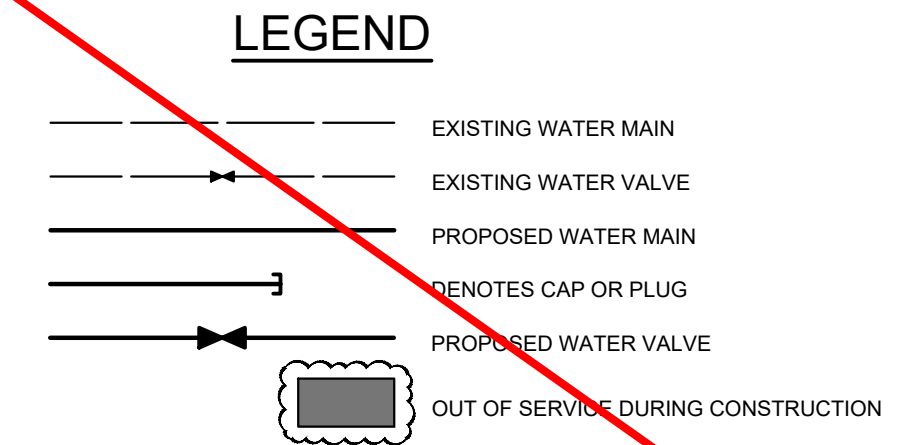
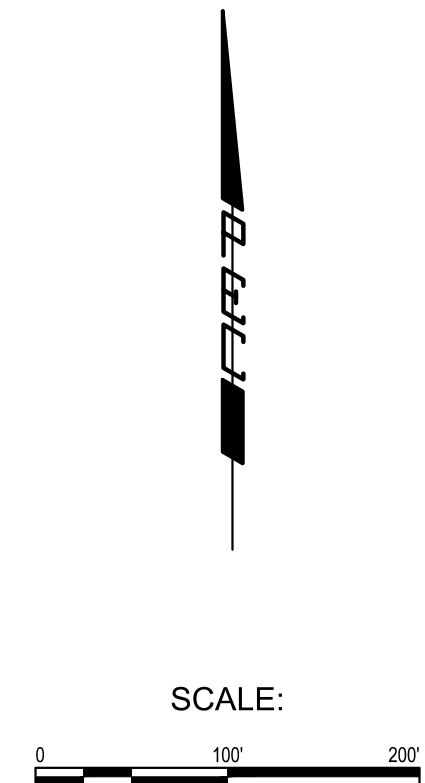


NO WORK ON THIS SHEET IS INCLUDED

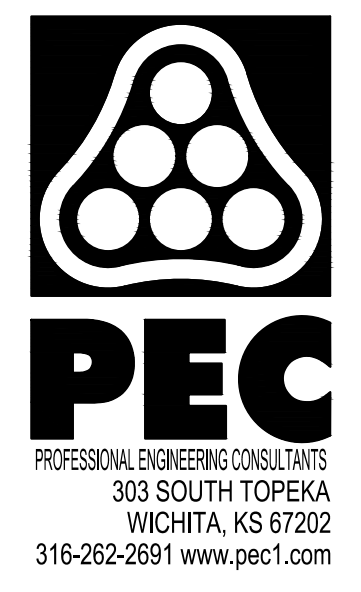
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CONSTRUCTION PLANS

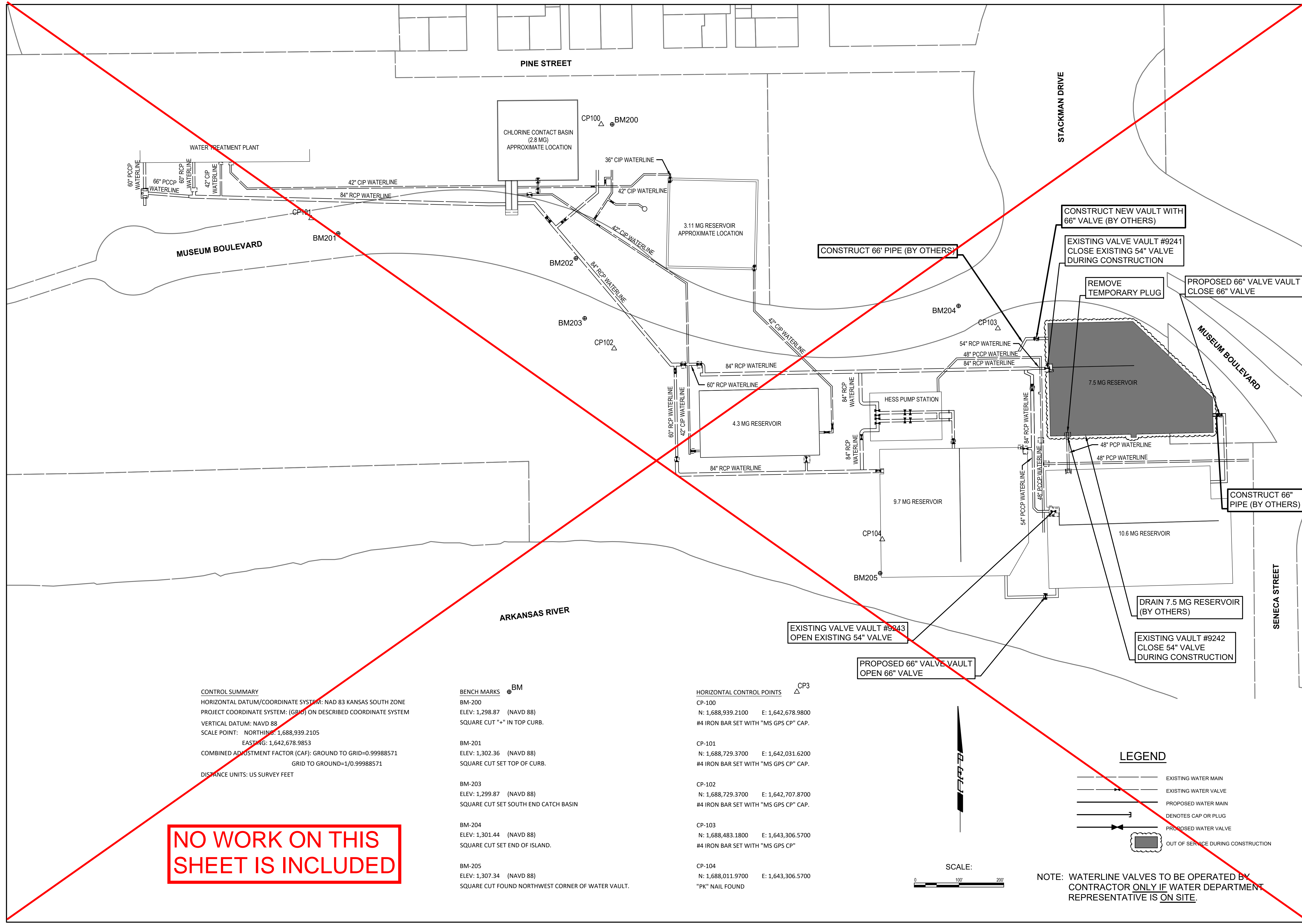
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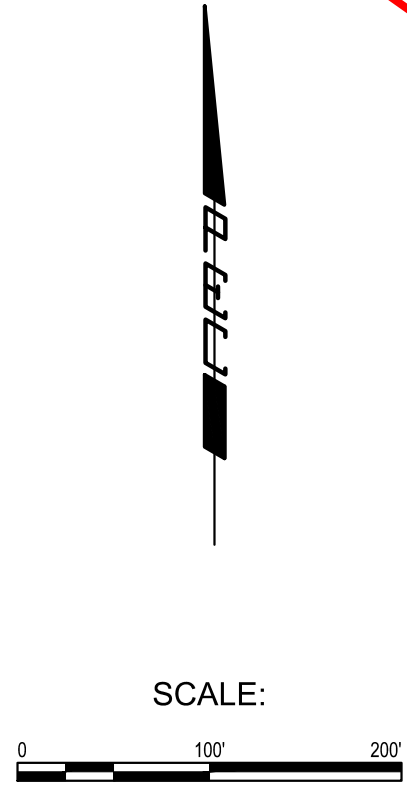


NO WORK ON THIS SHEET IS INCLUDED

CONTROL SUMMARY
 HORIZONTAL DATUM/COORDINATE SYSTEM: NAD 83 KANSAS SOUTH ZONE
 PROJECT COORDINATE SYSTEM: (GRID) ON DESCRIBED COORDINATE SYSTEM
 VERTICAL DATUM: NAVD 88
 SCALE POINT: NORTHING: 1,688,939.2105
 EASTING: 1,642,678.9853
 COMBINED ADJUSTMENT FACTOR (CAF): GROUND TO GRID=0.99988571
 GRID TO GROUND=1/0.99988571
 DISTANCE UNITS: US SURVEY FEET

BENCH MARKS BM
 BM-200
 ELEV: 1,298.87 (NAVD 88)
 SQUARE CUT "+" IN TOP CURB.
 BM-201
 ELEV: 1,302.36 (NAVD 88)
 SQUARE CUT SET TOP OF CURB.
 BM-203
 ELEV: 1,299.87 (NAVD 88)
 SQUARE CUT SET SOUTH END CATCH BASIN
 BM-204
 ELEV: 1,301.44 (NAVD 88)
 SQUARE CUT SET END OF ISLAND.
 BM-205
 ELEV: 1,307.34 (NAVD 88)
 SQUARE CUT FOUND NORTHWEST CORNER OF WATER VAULT.

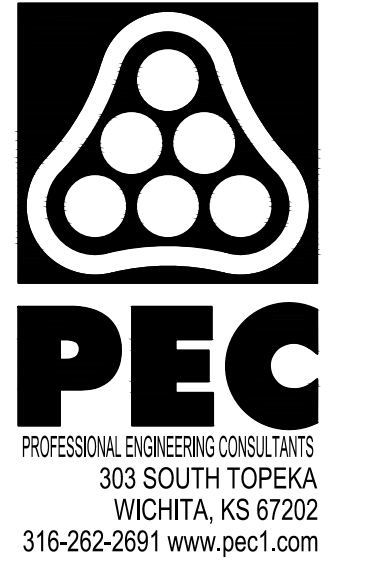
HORIZONTAL CONTROL POINTS CP3
 CP-100
 N: 1,688,939.2100 E: 1,642,678.9800
 #4 IRON BAR SET WITH "MS GPS CP" CAP.
 CP-101
 N: 1,688,729.3700 E: 1,642,031.6200
 #4 IRON BAR SET WITH "MS GPS CP" CAP.
 CP-102
 N: 1,688,729.3700 E: 1,642,707.8700
 #4 IRON BAR SET WITH "MS GPS CP" CAP.
 CP-103
 N: 1,688,483.1800 E: 1,643,306.5700
 #4 IRON BAR SET WITH "MS GPS CP"
 CP-104
 N: 1,688,011.9700 E: 1,643,306.5700
 "PK" NAIL FOUND



LEGEND

	EXISTING WATER MAIN
	EXISTING WATER VALVE
	PROPOSED WATER MAIN
	DENOTES CAP OR PLUG
	PROPOSED WATER VALVE
	OUT OF SERVICE DURING CONSTRUCTION

NOTE: WATERLINE VALVES TO BE OPERATED BY CONTRACTOR ONLY IF WATER DEPARTMENT REPRESENTATIVE IS ON SITE.



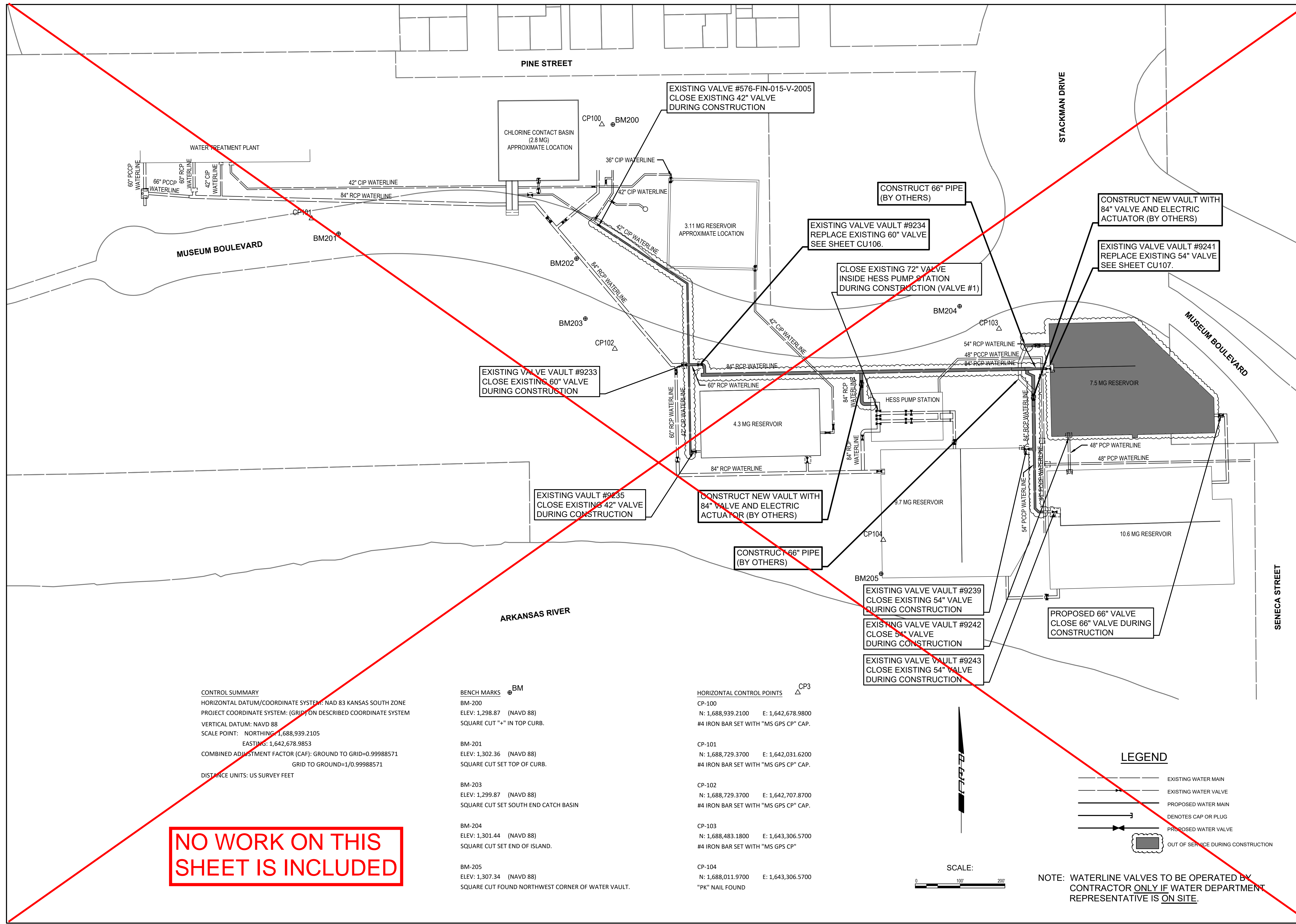
CONSTRUCTION PLANS

FOR
**HESS PUMP STATION
 SITE VALVE REPLACEMENT
 (PHASES 3-5/D-J)**

PAUL GUNZELMAN, P.E. - CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 448-2021-

Issue:	
JOB NO.	35-200335-004-0042
DATE	SEPTEMBER 2024
PM	TBK
DESIGNED BY	KJW
DRAWN BY	KTD
CHECKED BY	RWG
KEY MAP & BUBBLE MAP (PHASE G)	

SAVED 10/4/2024 4:34:54 PM BY KURTIS DEKAT
 PLOTTED 11/13/2024 1:20:16 PM BY KURTIS DEKAT
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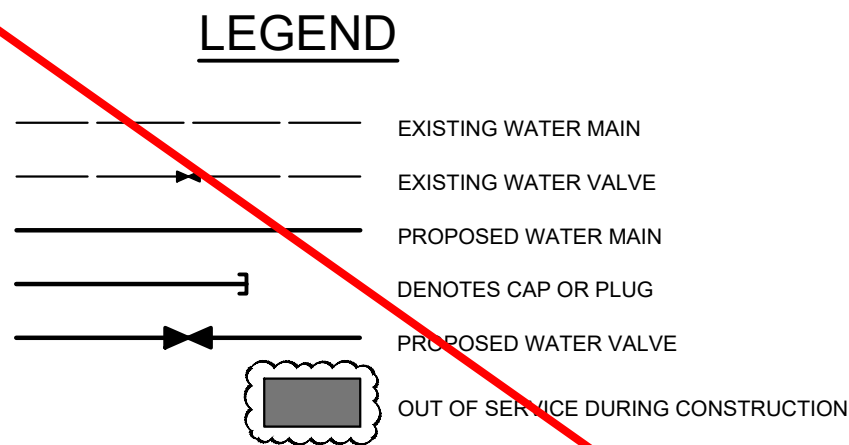
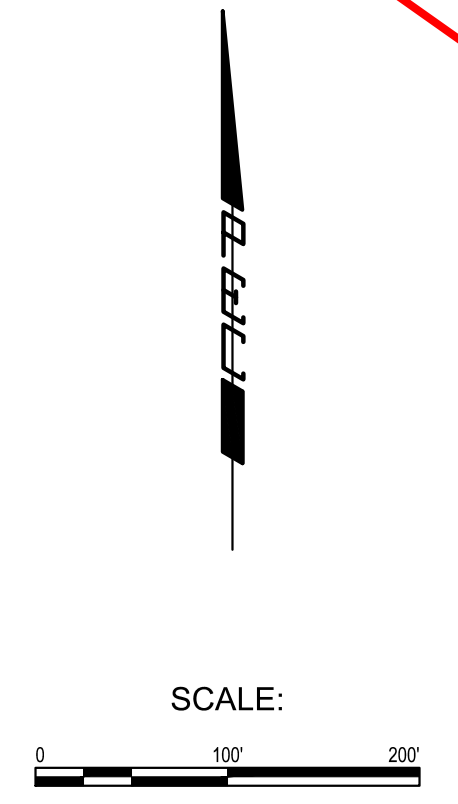


NO WORK ON THIS SHEET IS INCLUDED

CONTROL SUMMARY
 HORIZONTAL DATUM/COORDINATE SYSTEM: NAD 83 KANSAS SOUTH ZONE
 PROJECT COORDINATE SYSTEM: (GRID) ON DESCRIBED COORDINATE SYSTEM
 VERTICAL DATUM: NAVD 88
 SCALE POINT: NORTHING: 1,688,939.2105
 EASTING: 1,642,678.9853
 COMBINED ADJUSTMENT FACTOR (CAF): GROUND TO GRID=0.9998571
 GRID TO GROUND=1/0.9998571
 DISTANCE UNITS: US SURVEY FEET

BENCH MARKS BM
 BM-200
 ELEV: 1,298.87 (NAVD 88)
 SQUARE CUT "+" IN TOP CURB.
 BM-201
 ELEV: 1,302.36 (NAVD 88)
 SQUARE CUT SET TOP OF CURB.
 BM-203
 ELEV: 1,299.87 (NAVD 88)
 SQUARE CUT SET SOUTH END CATCH BASIN
 BM-204
 ELEV: 1,301.44 (NAVD 88)
 SQUARE CUT SET END OF ISLAND.
 BM-205
 ELEV: 1,307.34 (NAVD 88)
 SQUARE CUT FOUND NORTHWEST CORNER OF WATER VAULT.

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 N: 1,688,483.1800 E: 1,643,306.5700
 #4 IRON BAR SET WITH "MS GPS CP"
 CP-104
 N: 1,688,011.9700 E: 1,643,306.5700
 "PK" NAIL FOUND



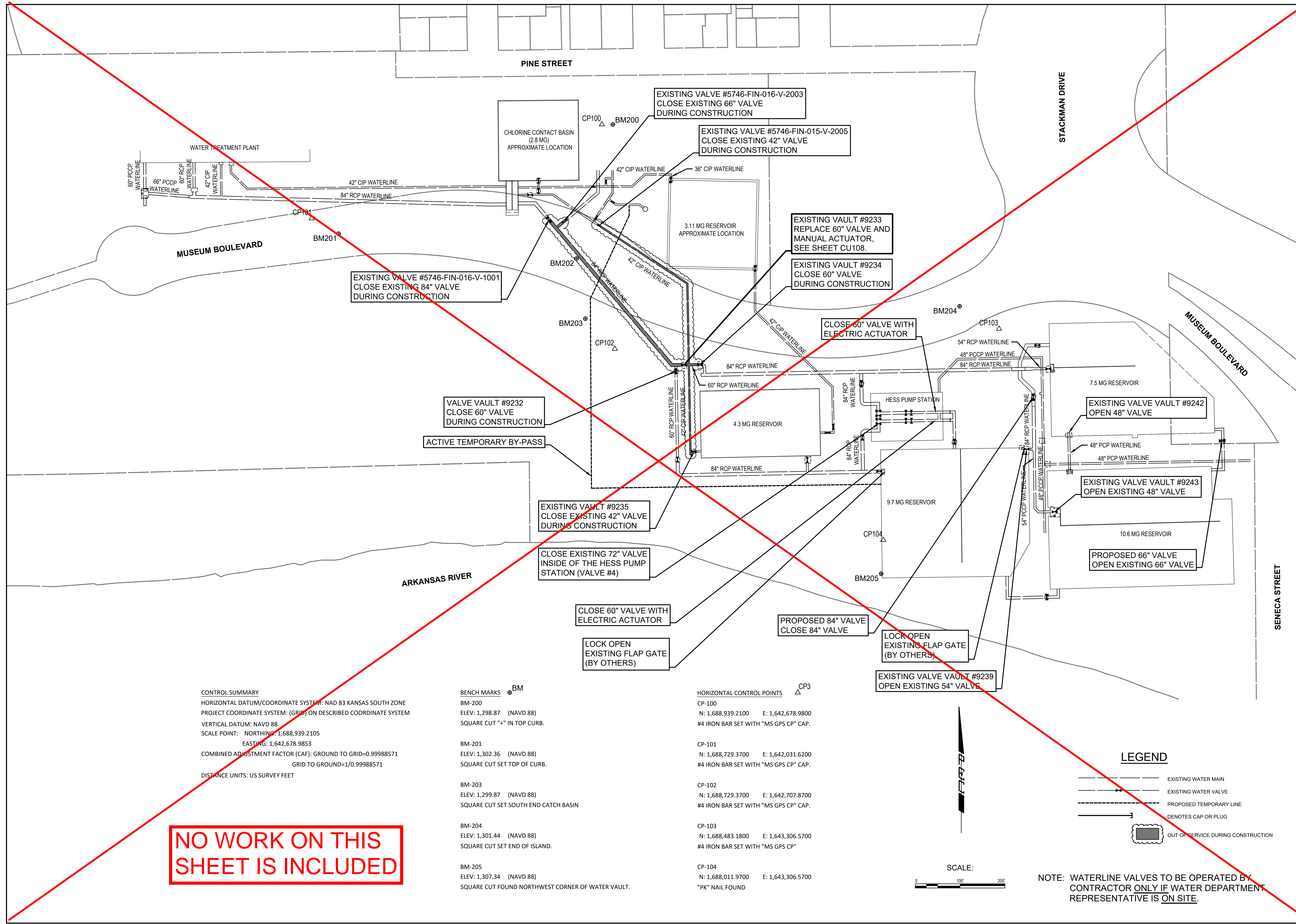
NOTE: WATERLINE VALVES TO BE OPERATED BY CONTRACTOR ONLY IF WATER DEPARTMENT REPRESENTATIVE IS ON SITE.



CONSTRUCTION PLANS
 FOR
**HESS PUMP STATION
 SITE VALVE REPLACEMENT
 (PHASES 3-5/D-J)**
 PAUL GUNZELMAN, P.E. - CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 448-2021-

Issue:	
JOB NO.	35-200335-004-0042
DATE	SEPTEMBER 2024
PM	TBK
DESIGNED BY	KJW
DRAWN BY	KTD
CHECKED BY	RWG
KEY MAP & BUBBLE MAP (PHASE H)	
C-007	

SAVED: 10/4/2024 4:53:08 PM BY: KURTIS DEKAT
 PLOTTED: 11/13/2024 1:20:21 PM BY: KURTIS DEKAT
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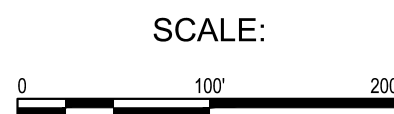


NO WORK ON THIS SHEET IS INCLUDED

CONTROL SUMMARY
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 PROJECT COORDINATE SYSTEM: (GRID) ON DESCRIBED COORDINATE SYSTEM
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 BM-205
 ELEV: 1,307.34 (NAVD 88)
 SQUARE CUT FOUND NORTHWEST CORNER OF WATER VAULT.

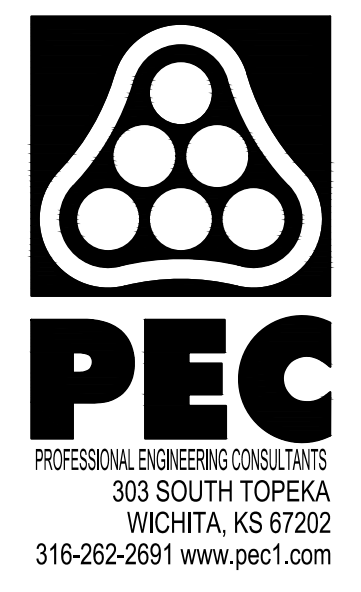
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 #4 IRON BAR SET WITH "MS GPS CP" CAP.
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 #4 IRON BAR SET WITH "MS GPS CP"
 CP-104
 N: 1,688,011.9700 E: 1,643,306.5700
 "PK" NAIL FOUND



LEGEND

	EXISTING WATER MAIN
	EXISTING WATER VALVE
	PROPOSED TEMPORARY LINE
	DENOTES CAP OR PLUG
	OUT OF SERVICE DURING CONSTRUCTION

NOTE: WATERLINE VALVES TO BE OPERATED BY CONTRACTOR ONLY IF WATER DEPARTMENT REPRESENTATIVE IS ON SITE.



CONSTRUCTION PLANS
 FOR
HESS PUMP STATION
SITE VALVE REPLACEMENT
(PHASES 3-5/D-J)
 PAUL GUNZELMAN, P.E. - CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 448-2021-

Issue:	
JOB NO.	35-200335-004-0042
DATE	SEPTEMBER 2024
PM	TBK
DESIGNED BY	KJW
DRAWN BY	KTD
CHECKED BY	RWG

KEY MAP & BUBBLE MAP (PHASE I)

C-008

SAVED 10/7/2024 11:09:31 AM BY KURTIS DEKAT
 PLOTTED 11/13/2024 1:20:26 PM BY KURTIS DEKAT
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NO WORK ON THIS SHEET IS INCLUDED

CONTROL SUMMARY
 HORIZONTAL DATUM/COORDINATE SYSTEM: NAD 83 KANSAS SOUTH ZONE
 PROJECT COORDINATE SYSTEM: (GRID) ON DESCRIBED COORDINATE SYSTEM
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 GRID TO GROUND=1/0.99988571
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 ELEV: 1,299.87 (NAVD 88)
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 ELEV: 1,301.44 (NAVD 88)
 SQUARE CUT SET END OF ISLAND.
 BM-205
 ELEV: 1,307.34 (NAVD 88)
 SQUARE CUT FOUND NORTHWEST CORNER OF WATER VAULT.

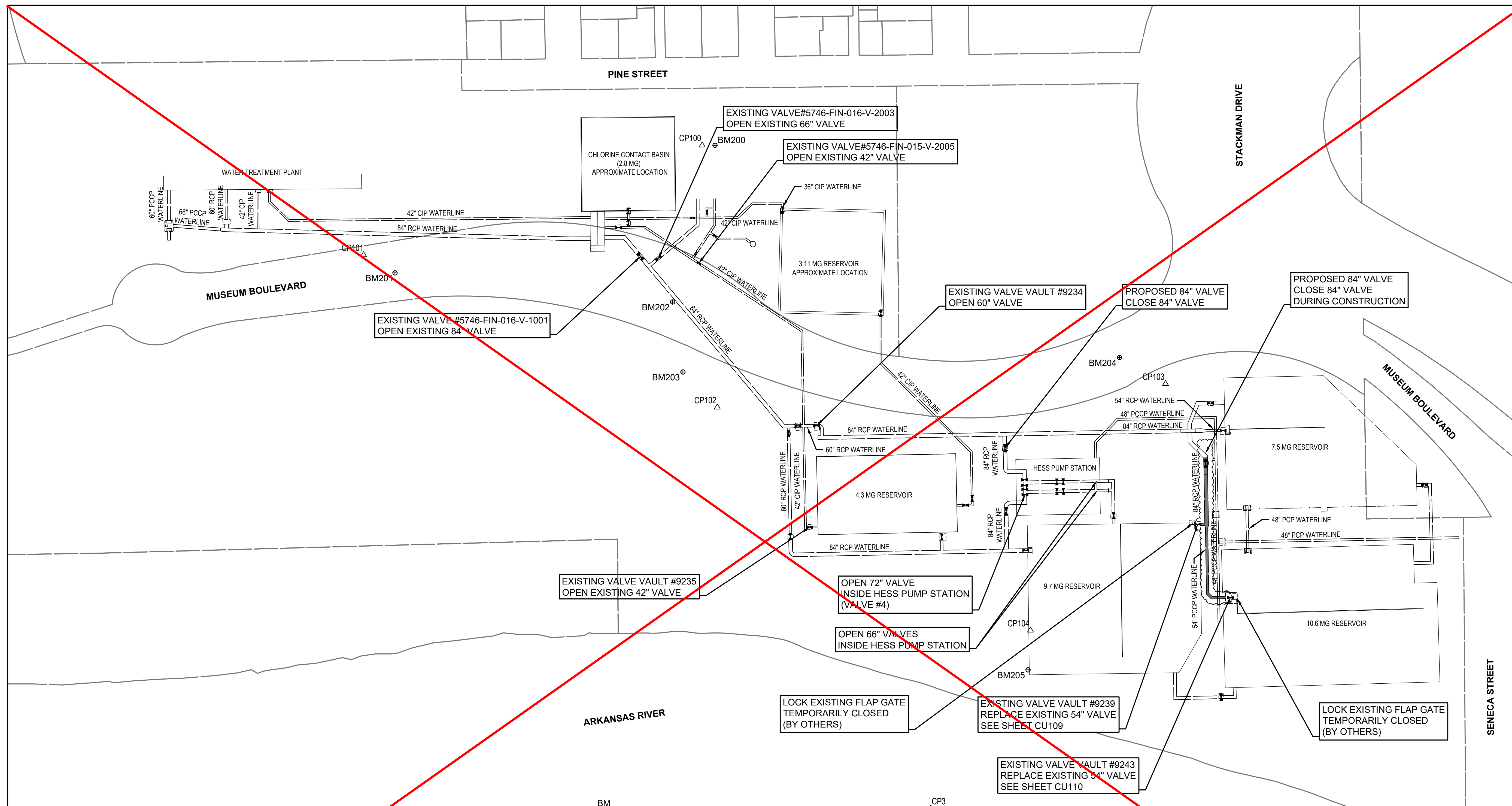
HORIZONTAL CONTROL POINTS CP3
 CP-100
 N: 1,688,939.2100 E: 1,642,678.9800
 #4 IRON BAR SET WITH "MS GPS CP" CAP.
 CP-101
 N: 1,688,729.3700 E: 1,642,031.6200
 #4 IRON BAR SET WITH "MS GPS CP" CAP.
 CP-102
 N: 1,688,729.3700 E: 1,642,707.8700
 #4 IRON BAR SET WITH "MS GPS CP" CAP.
 CP-103
 N: 1,688,483.1800 E: 1,643,306.5700
 #4 IRON BAR SET WITH "MS GPS CP"
 CP-104
 N: 1,688,011.9700 E: 1,643,306.5700
 "PK" NAIL FOUND

SCALE:

LEGEND

- EXISTING WATER MAIN
- EXISTING WATER VALVE
- DENOTES CAP OR PLUG
- OUT OF SERVICE DURING CONSTRUCTION

NOTE: WATERLINE VALVES TO BE OPERATED BY CONTRACTOR ONLY IF WATER DEPARTMENT REPRESENTATIVE IS ON SITE.



CONSTRUCTION PLANS

**FOR HESS PUMP STATION
 SITE VALVE REPLACEMENT
 (PHASES 3-5/D-J)**

PAUL GUNZELMAN, P.E. - CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 448-2021-

Issue:			
JOB NO.	35-200335-004-0042	DATE	SEPTEMBER 2024
PM	TBK	DESIGNED BY	KJW
DRAWN BY	KTD	CHECKED BY	RWG

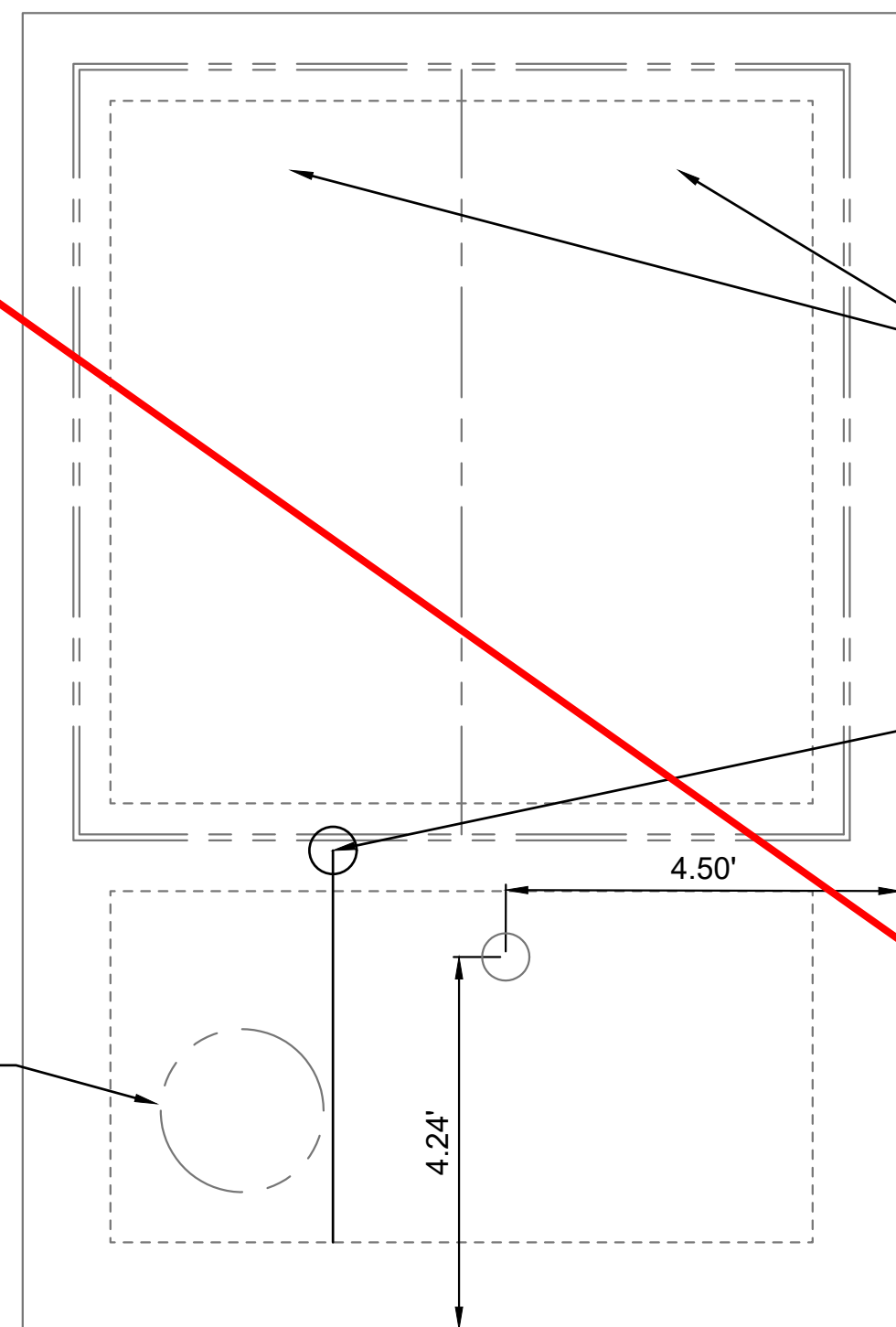
KEY MAP & BUBBLE MAP (PHASE J)

C-009

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 PLOTTED 11/13/2024 1:20:54 PM BY KURTIS DEKAT
 U:\WICHITA-CIVIL\2020\200335\004\PEC\DRAWINGS\PHASE 3, 4, AND 5\200335-004-CU106.DWG

NO WORK ON THIS SHEET IS INCLUDED

EXISTING C.I. MANHOLE
 FRAME AND COVER



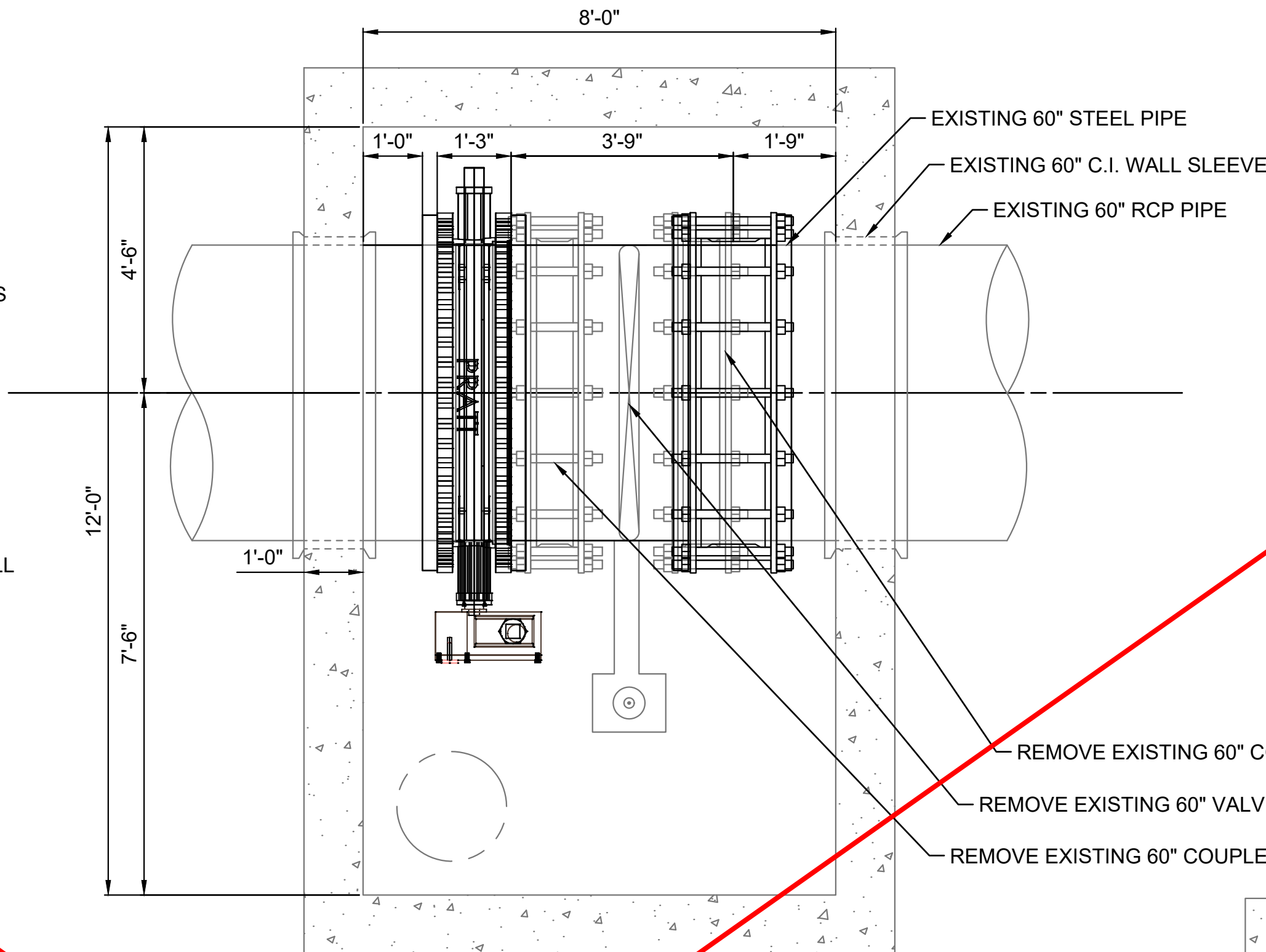
TOP

EXISTING REMOVABLE SLABS

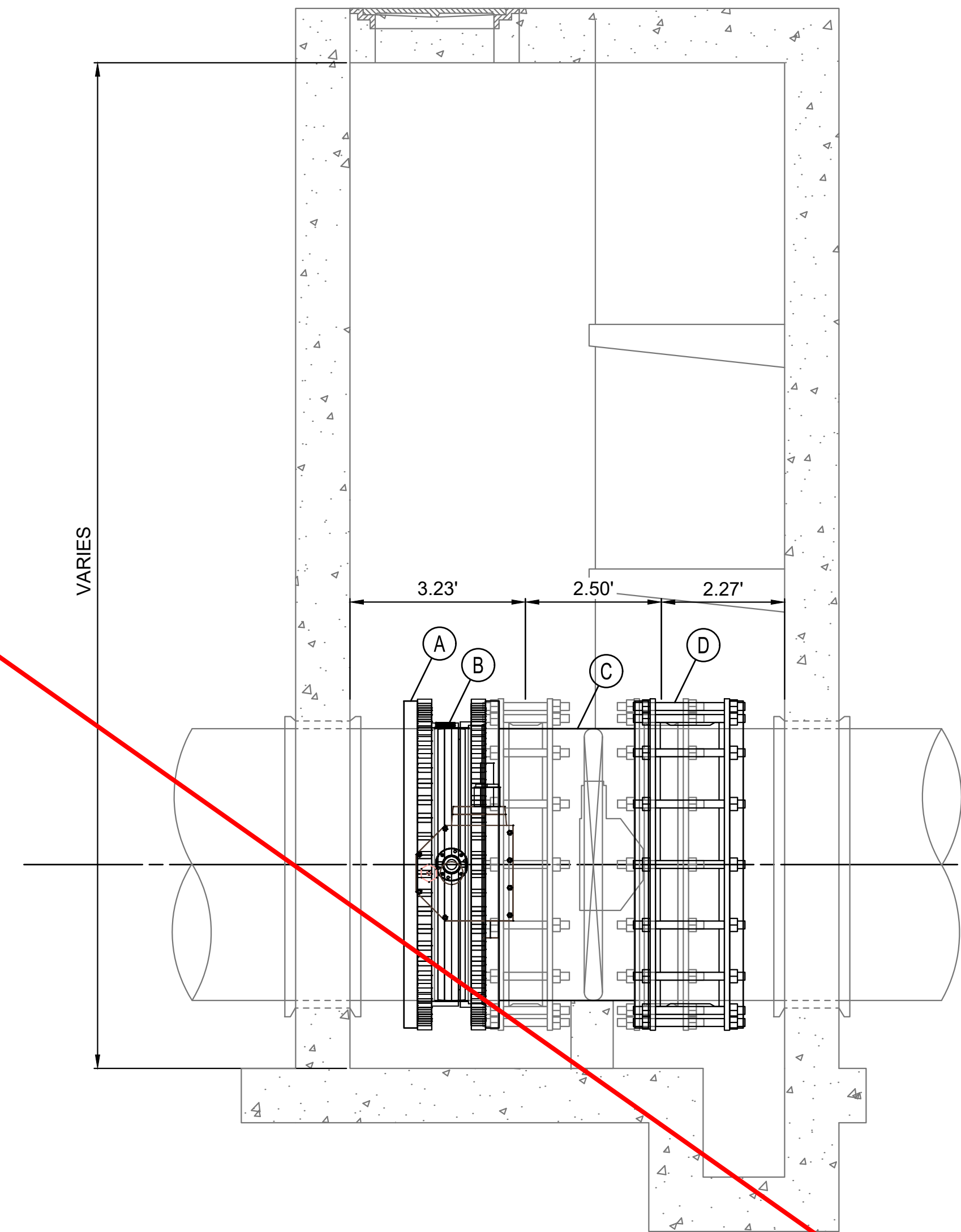
PROPOSED VALVE BOX
 CORE VAULT LID AND INSTALL
 VALVE BOX AND LID.
 CONTRACTOR TO VERIFY
 LOCATION.

KEY LEGEND

A	WELD 60" PIPE FLANGE ONTO EXISTING 60" STEEL PIPE
B	PROPOSED 60" FLANGED BUTTERFLY VALVE
C	PROPOSED 60" FL X PE PIPE
D	PROPOSED 60" DRESSER STYLE COUPLER



PLAN



SECTION

60" LINE VALVE VAULT DETAIL

SCALE 1" = 2'



CONSTRUCTION PLANS

FOR
 HESS PUMP STATION
 SITE VALVE REPLACEMENT
 (PHASES 3-5/D-J)

PAUL GUNZELMAN, P.E. - CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 448-2021-

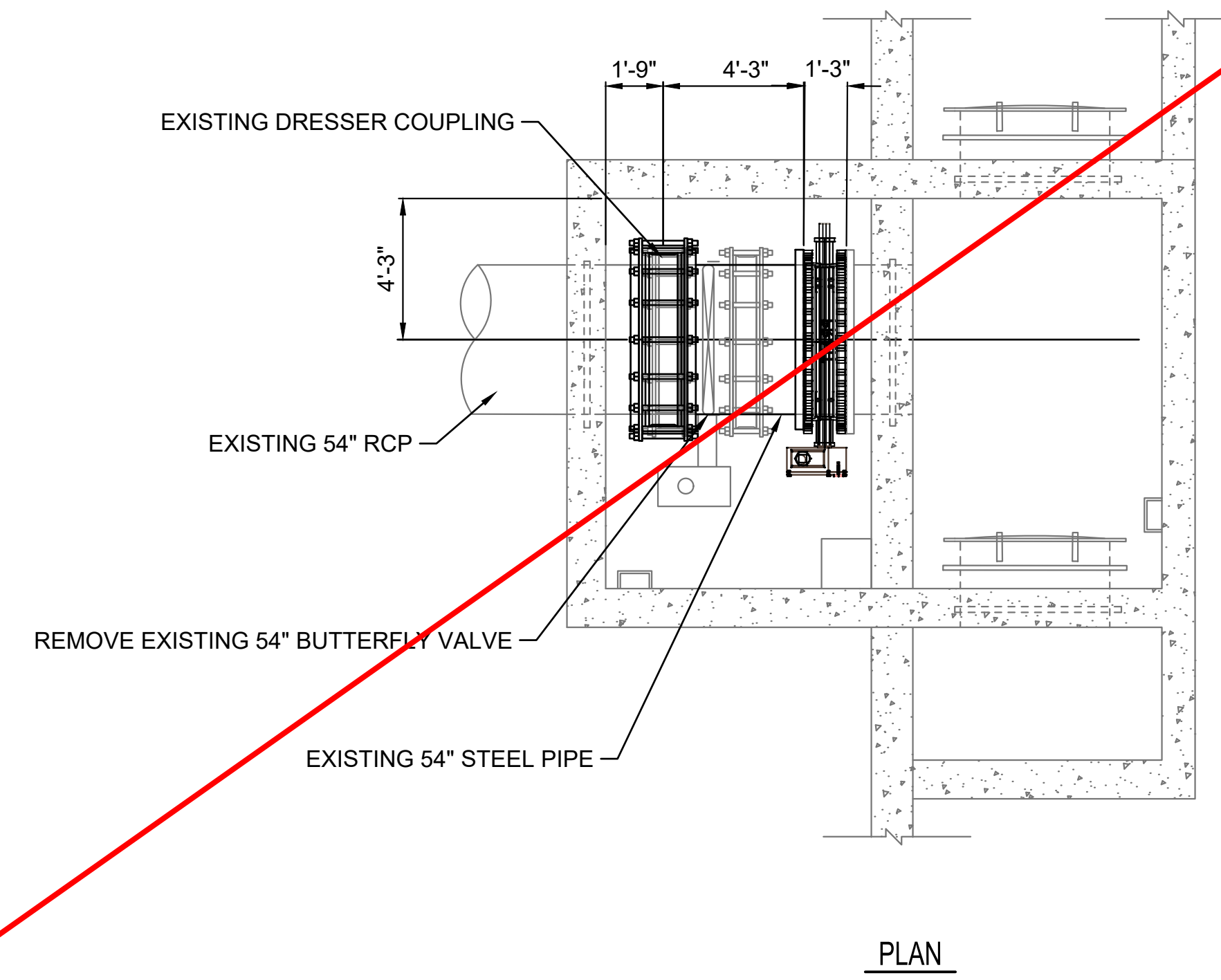
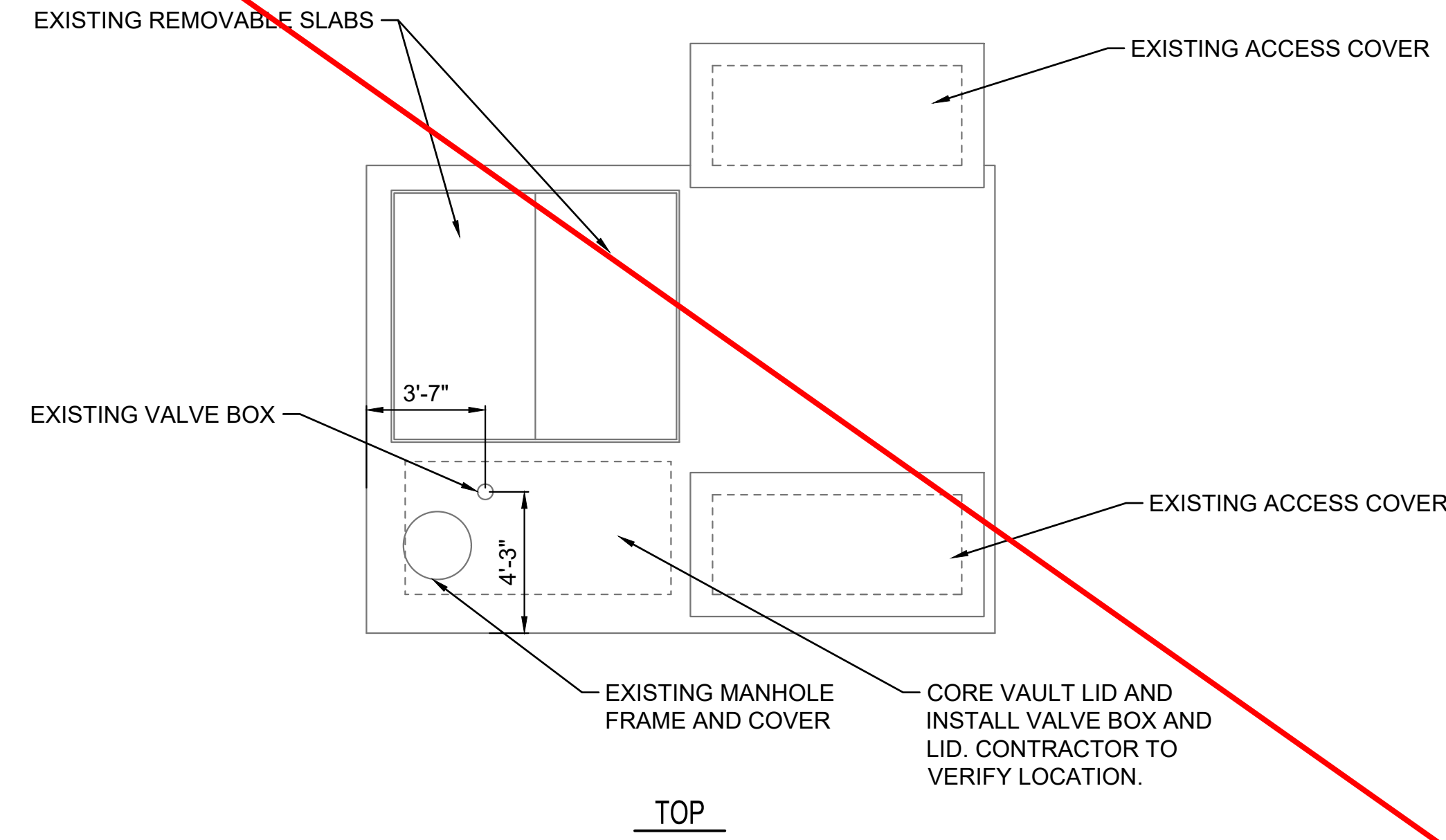
Issue:					

JOB NO.	35-200335-004-0042
DATE	SEPTEMBER 2024
PM	TBK
DESIGNED BY	KJW
DRAWN BY	KTD
CHECKED BY	RWG

EXISTING VALVE VAULT 9234
 (PHASE H)

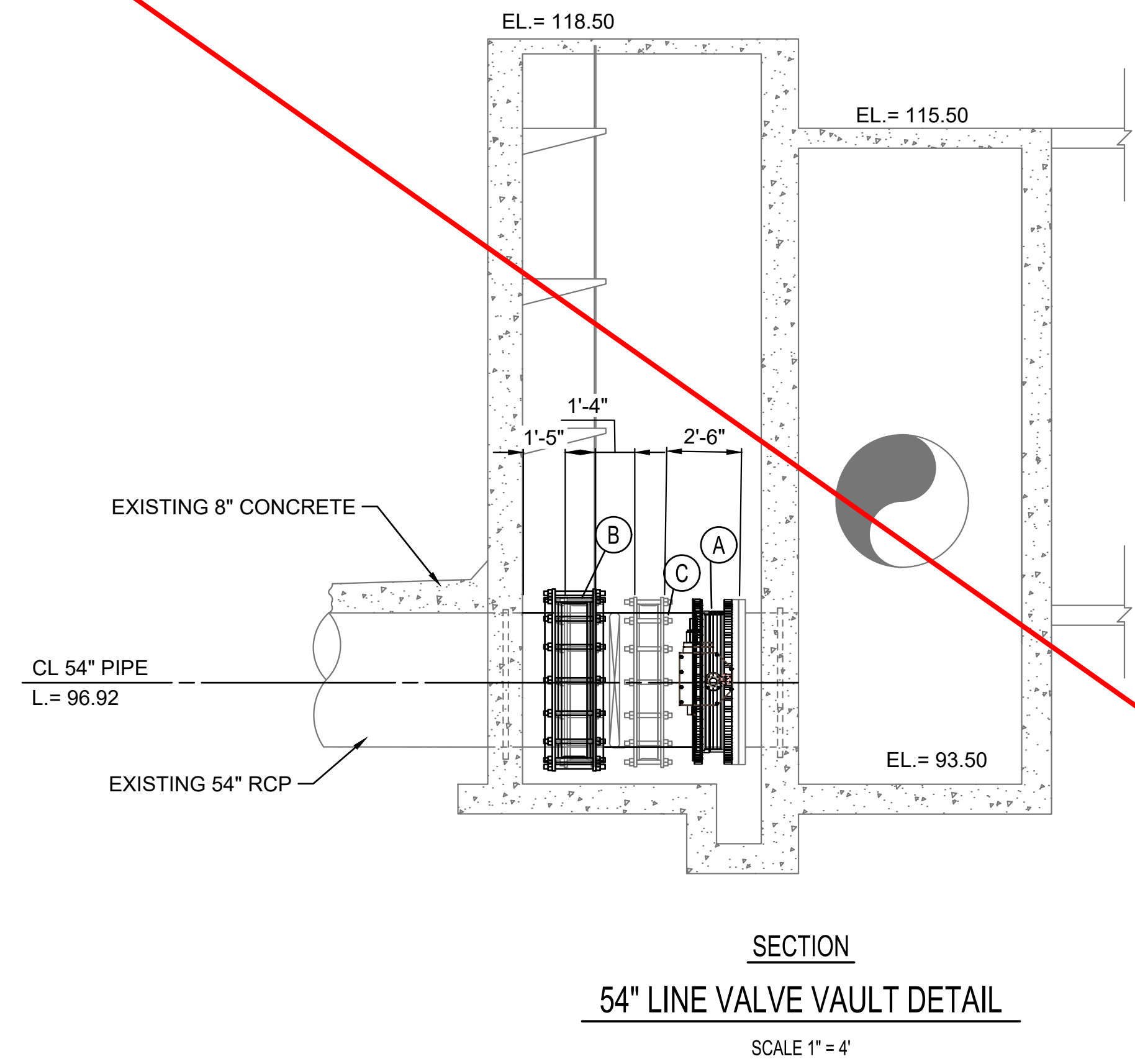
CU106

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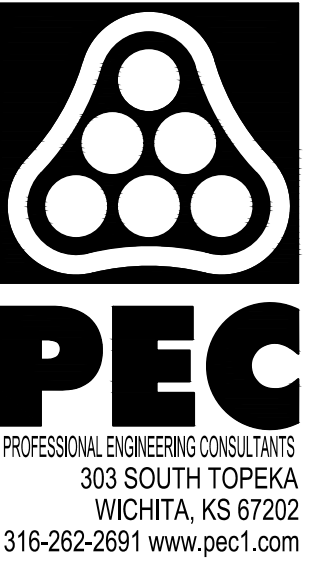


KEY LEGEND

A	PROPOSED 54" FLANGED BUTTERFLY VALVE
B	PROPOSED 54" DRESSER STYLE COUPLER
C	PROPOSED 54" PE X FL PIPE



NO WORK ON THIS SHEET IS INCLUDED



CONSTRUCTION PLANS
 FOR
HESS PUMP STATION
SITE VALVE REPLACEMENT
(PHASES 3-5/D-J)
 PAUL GUNZELMAN, P.E. - CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 448-2021-

Issue:		
JOB NO.	35-200335-004-0042	
DATE	SEPTEMBER 2024	
PM	TBK	
DESIGNED BY	KJW	
DRAWN BY	KTD	
CHECKED BY	RWG	

EXISTING VALVE VAULT 9241 (PHASE H)

CU107

CONSTRUCTION PLANS

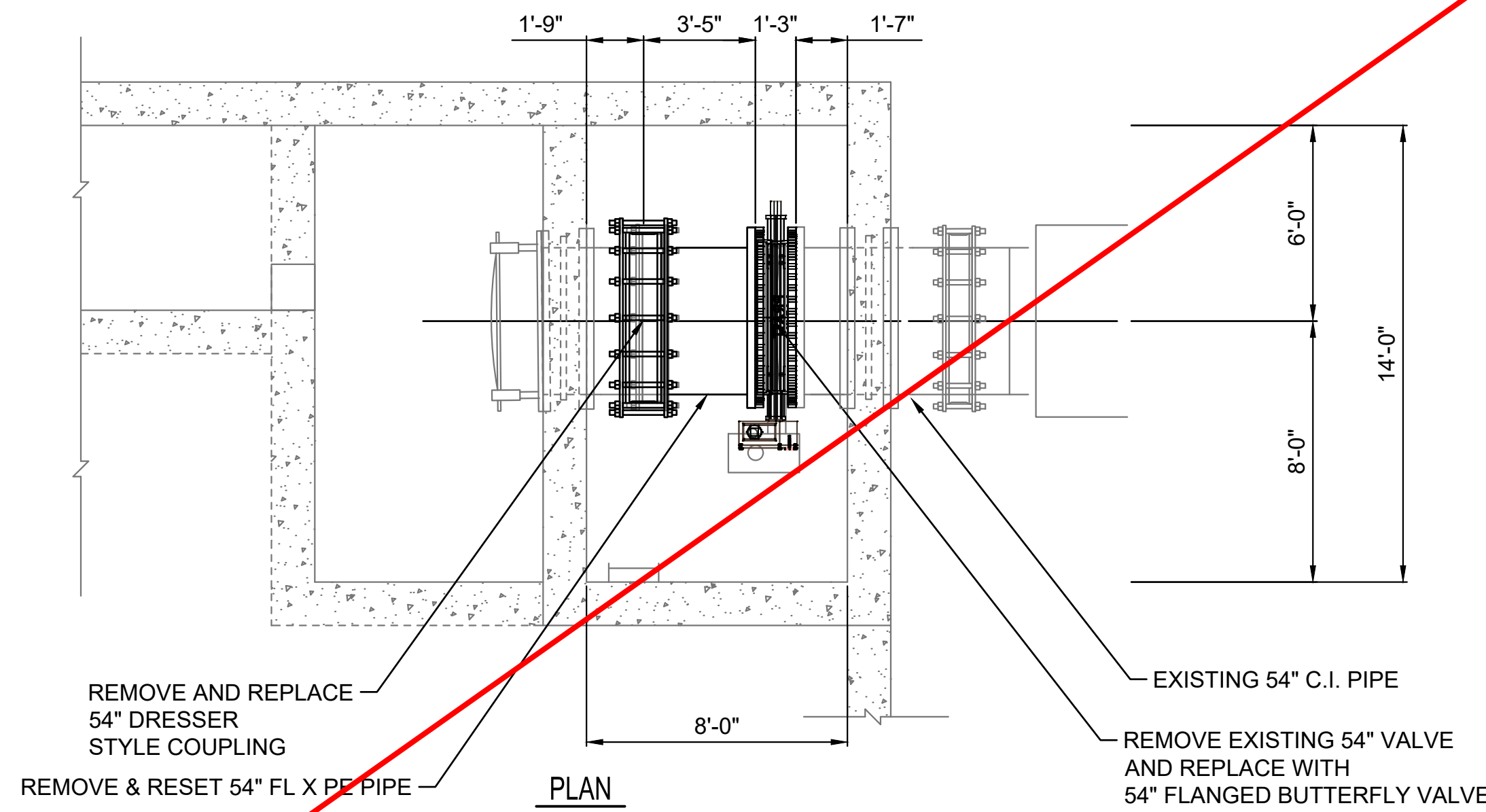
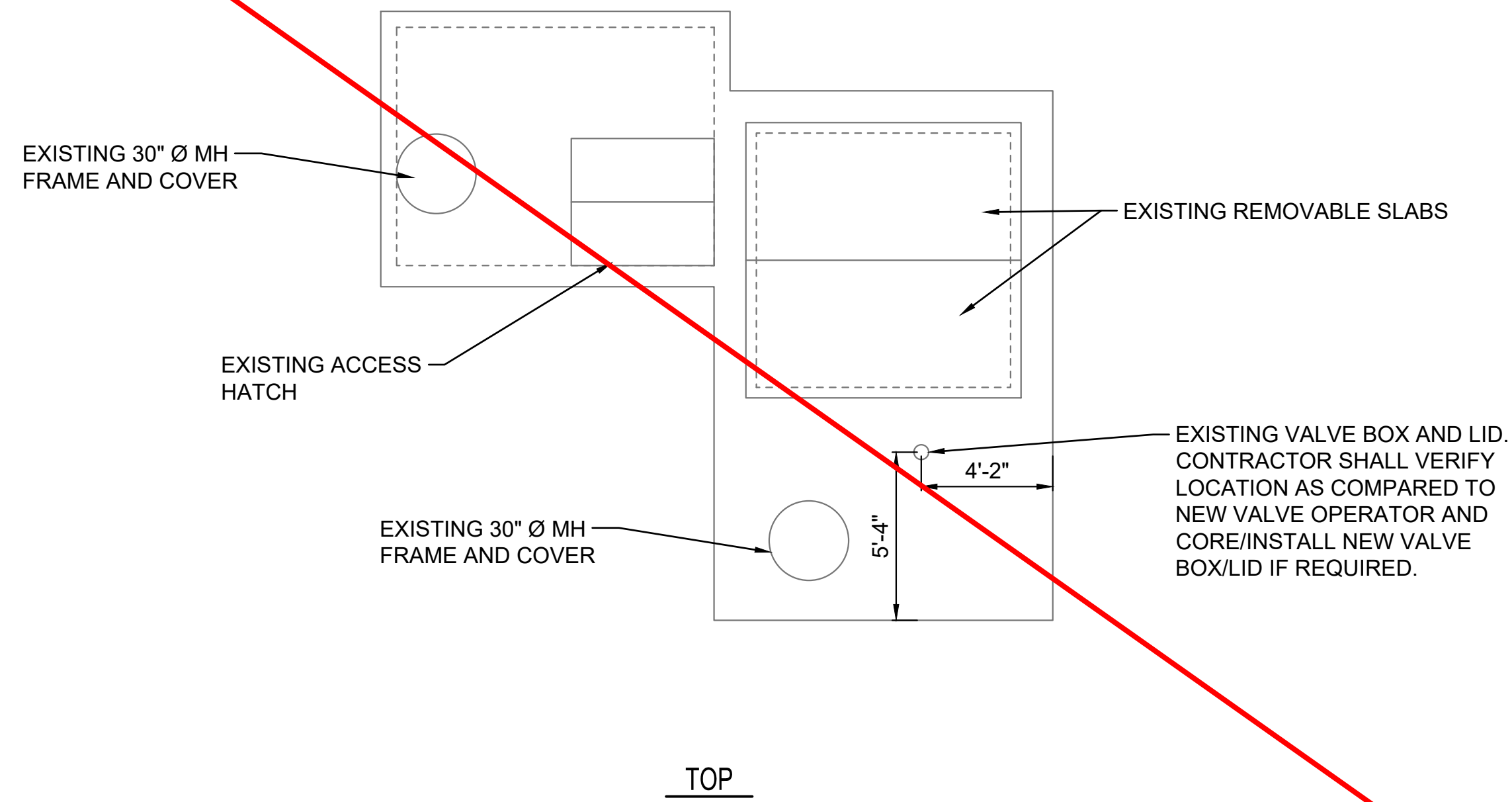
FOR
**Hess Pump Station
SITE VALVE REPLACEMENT
(PHASES 3-5/D-J)**

PAUL GUNZELMAN, P.E. - CITY ENGINEER
CITY OF WICHITA PROJECT NO. 448-2021-

Issue:		

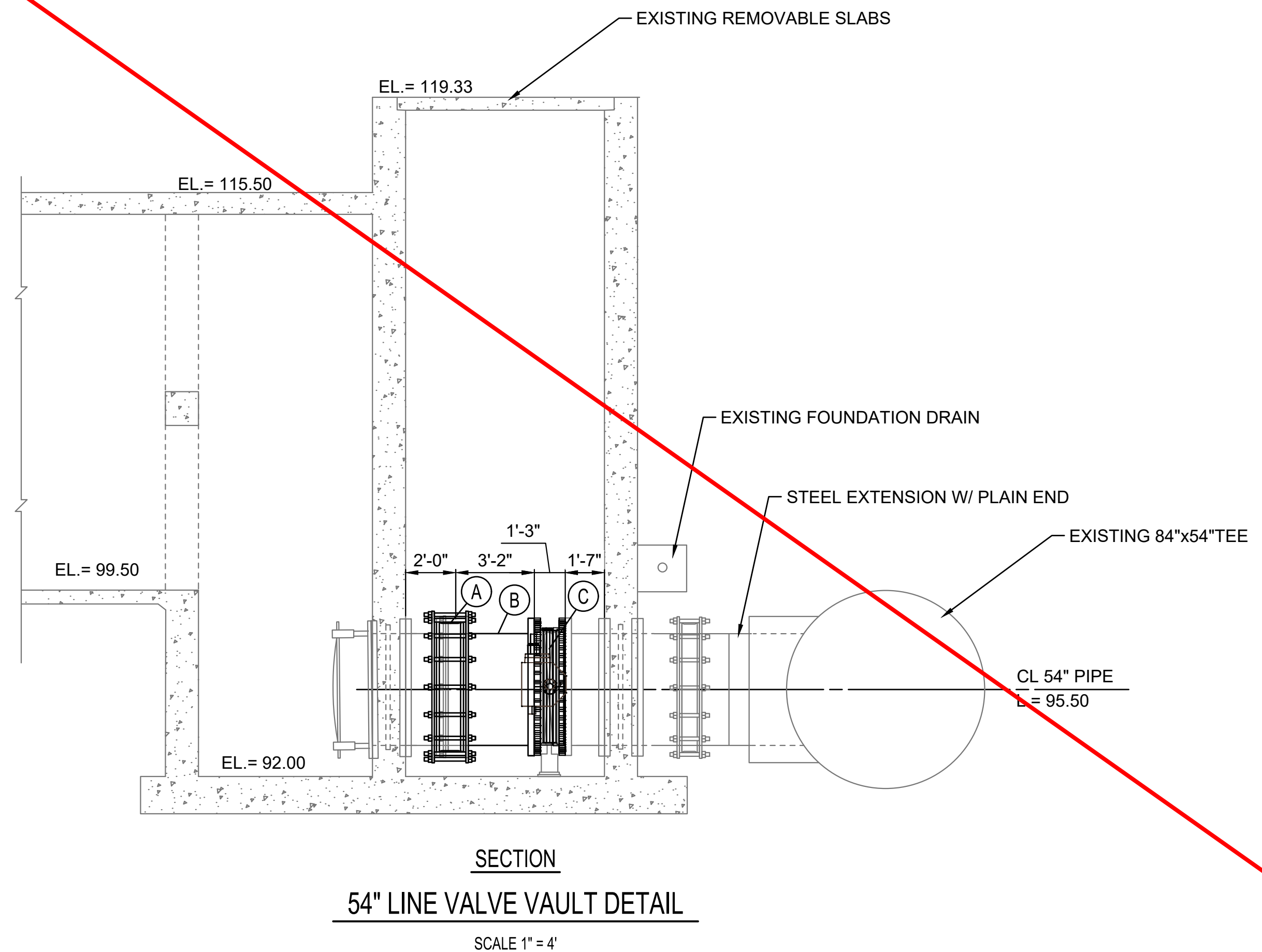
JOB NO.	35-200335-004-0042
DATE	SEPTEMBER 2024
PM	TBK
DESIGNED BY	KJW
DRAWN BY	KTD
CHECKED BY	RWG

EXISTING VALVE VAULT 9239
(PHASE J)



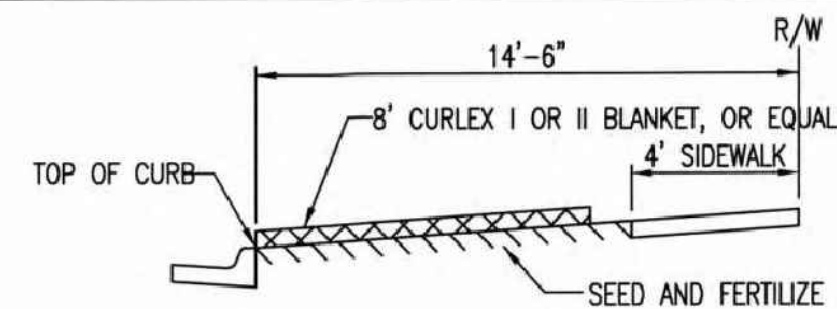
KEY LEGEND

A	PROPOSED 54" DRESSER STYLE COUPLING
B	EXISTING 54" FL X PE PIPE
C	PROPOSED 54" FLANGED BUTTERFLY VALVE

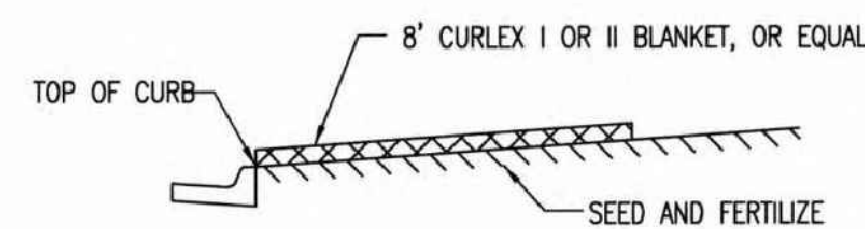


NO WORK ON THIS SHEET IS INCLUDED

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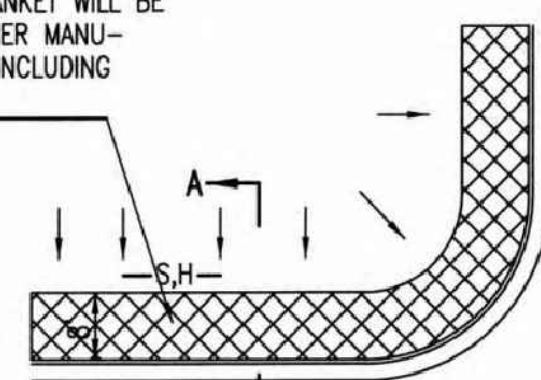


SECTION B-B

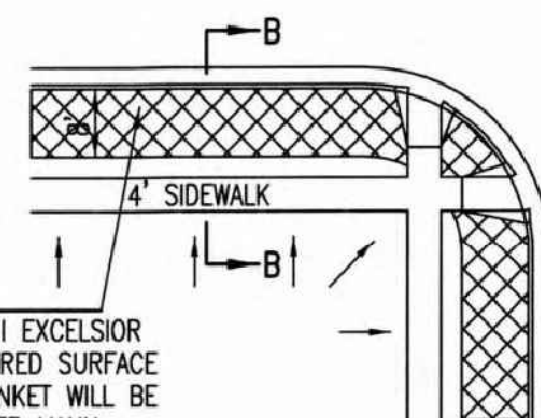


SECTION A-A

INSTALL 8' WIDE CURLEX I OR II EXCELSIOR BLANKET, OR EQUAL, ON PREPARED SURFACE BACK OF CURB. EDGE OF BLANKET WILL BE AT BACK OF CURB. INSTALL PER MANUFACTURER'S RECOMMENDATION, INCLUDING STAPLES. (SEE DETAIL)



SOUTH STREET

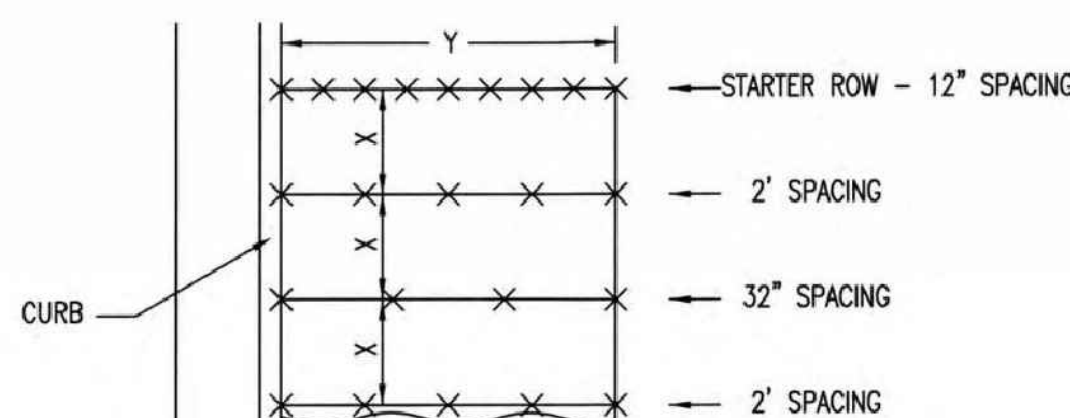


INSTALL 8' WIDE CURLEX I OR II EXCELSIOR BLANKET, OR EQUAL, ON PREPARED SURFACE BACK OF CURB. EDGE OF BLANKET WILL BE AT BACK OF CURB. INSTALL PER MANUFACTURER'S RECOMMENDATION, INCLUDING STAPLES. (SEE DETAIL)

GENERAL NOTES

- EXCELSIOR MAT TO BE INSTALLED WHEN SOD IS NOT SPECIFIED ON PROJECT.
- EXCELSIOR BLANKET TO BE INSTALLED OVER SEED AND FERTILIZER, AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
- AFTER INSTALLATION OF EXCELSIOR BLANKET, AT LOCATIONS WHERE CONCENTRATED FLOW CARRIES SEDIMENT OVER THE CURB AND INTO THE GUTTER, SUPPLEMENTAL EROSION CONTROL DEVICES WILL BE INSTALLED BY THE CONTRACTOR AS NEEDED, TO FIX THE PROBLEM.

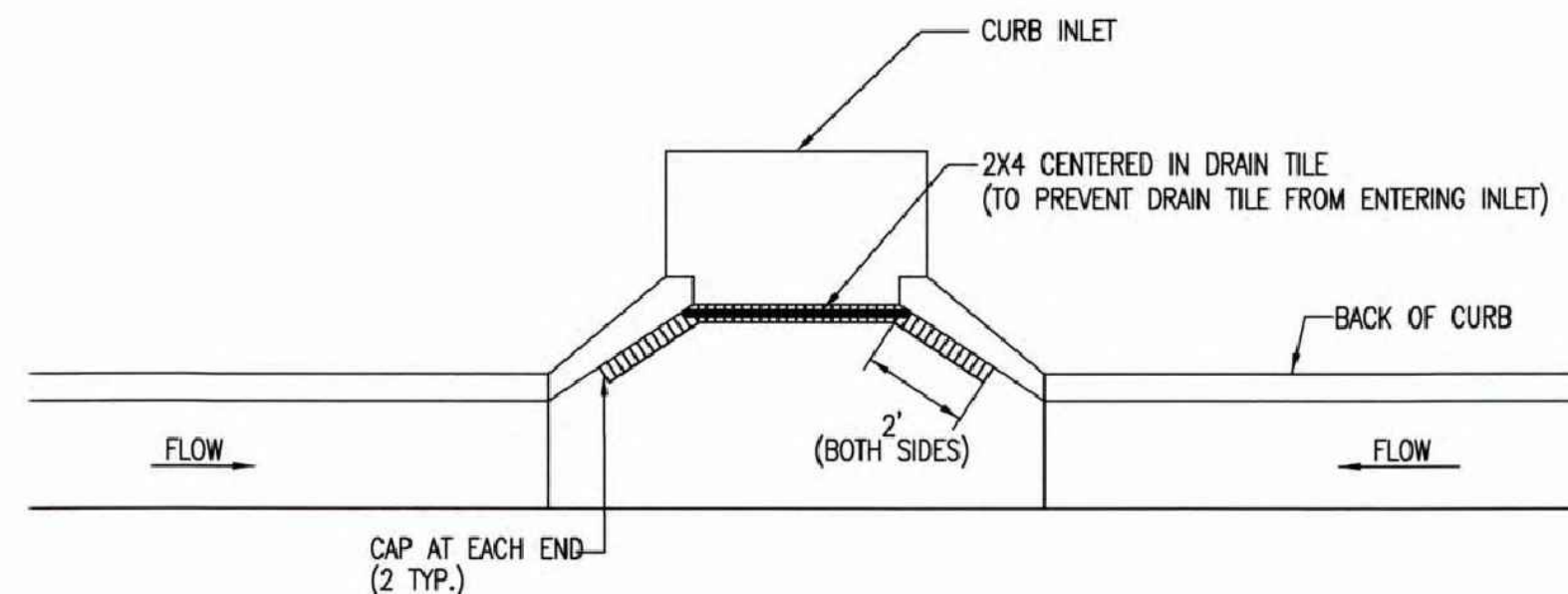
BACK OF CURB PROTECTION DETAIL



STAPLE PATTERN

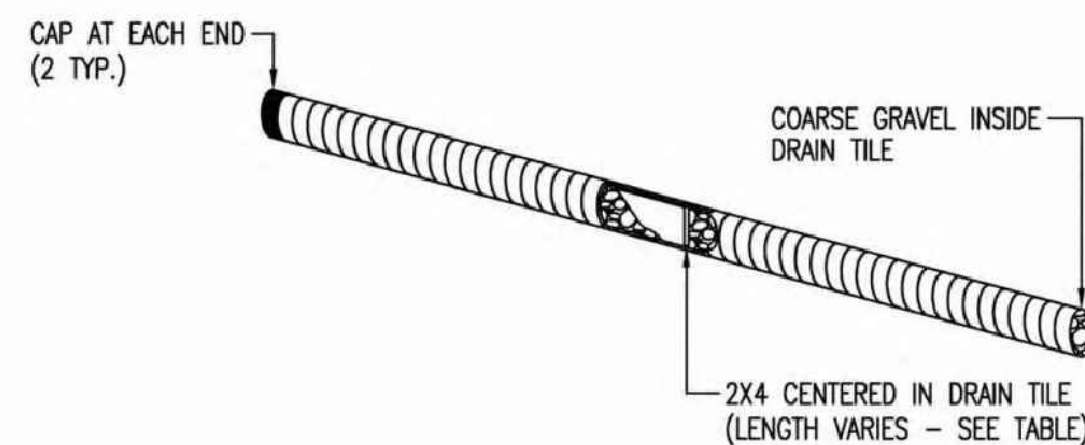
NOTES: USE 6" SEAM OVERLAP
 (X & Y = RECOMMENDED BY MANUFACTURE)

DETAILS FOR APPROVED EROSION CONTROL MAT

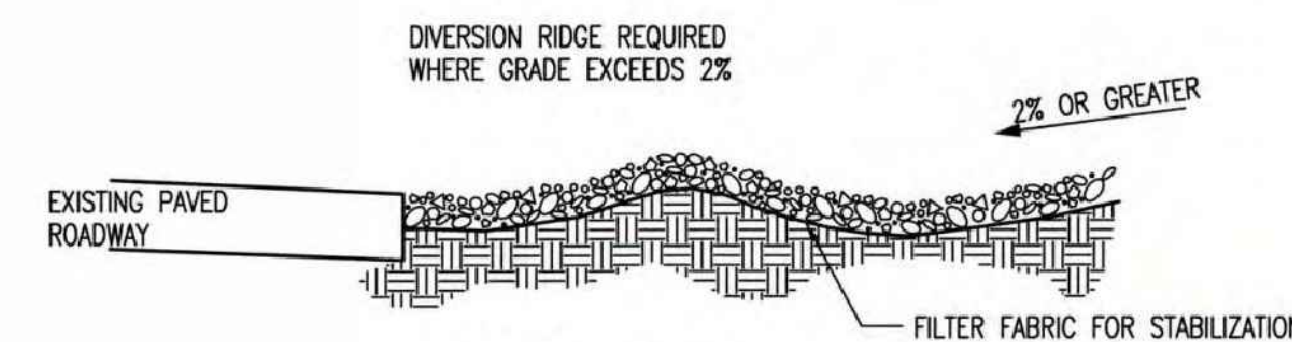


NOTE: PLACE 4" PERFORATED PVC PIPE, FILLED WITH 1/2"-1" DIA. GRAVEL, IN FRONT OF CURB INLET AS SHOWN.

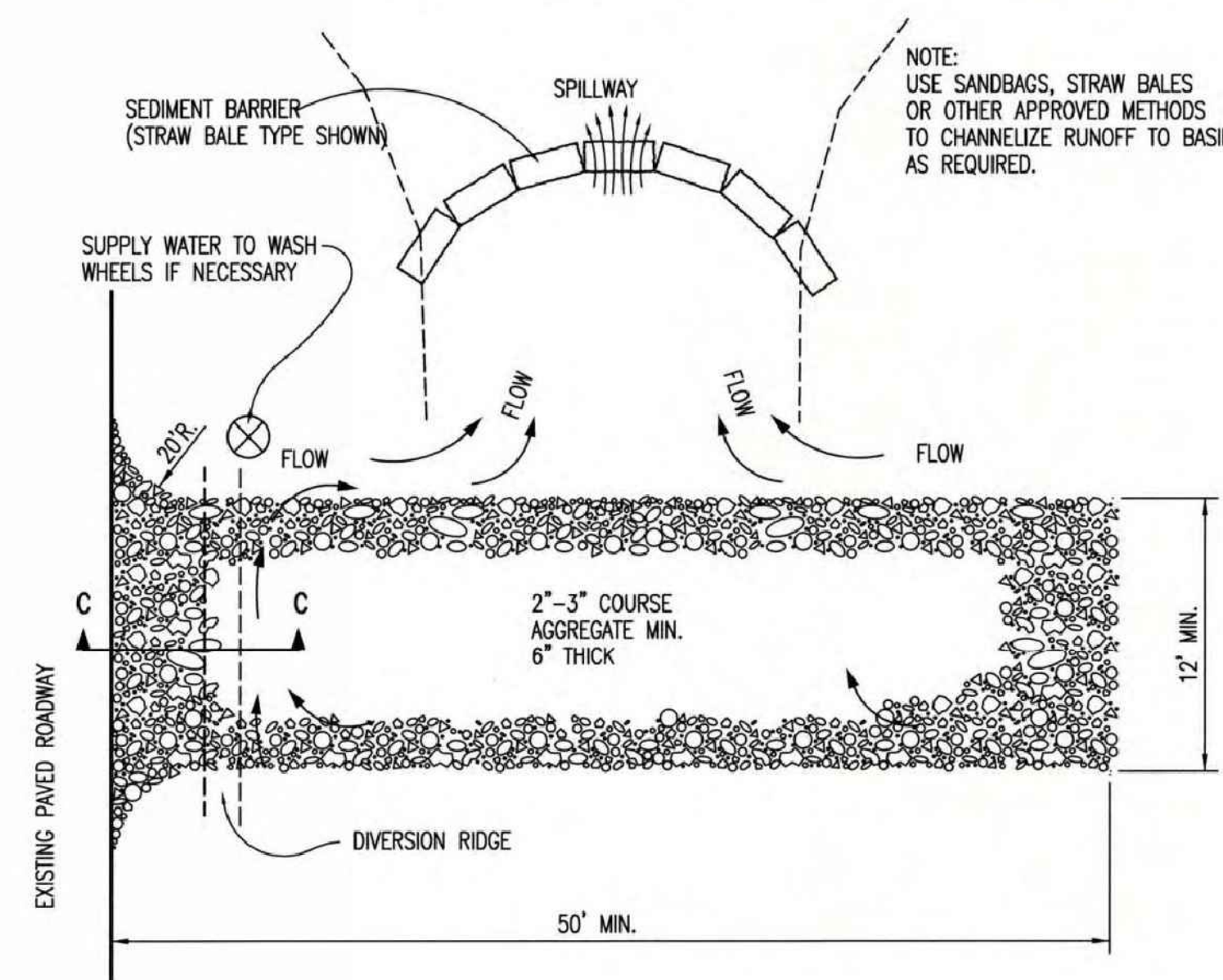
2X4 LENGTH	INLET TYPE	INLET OPENING
5'-6"	1-A	5'-0"
10'-6"	1-A	10'-0"
15'-6"	1-A	15'-0"



CURB INLET PROTECTION
 4" PERFORATED PIPE W/ GRAVEL



SECTION C-C



STABILIZED CONSTRUCTION ENTRANCE

GENERAL NOTES

- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
- WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
- WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN, AS SHOWN ABOVE.
- DRIVE ENTRANCES ONTO RESIDENTIAL LOTS WILL NOT BE REQUIRED TO HAVE THE SEDIMENT BARRIER SHOWN, BUT WHEEL WASHING MAY BE REQUIRED IF STABILIZED ENTRANCE IS NOT SUFFICIENT TO KEEP MUD FROM BEING TRACKED ONTO ADJACENT STREET. ENTRANCE SHALL EXTEND FROM BACK OF CURB TO DWELLING.

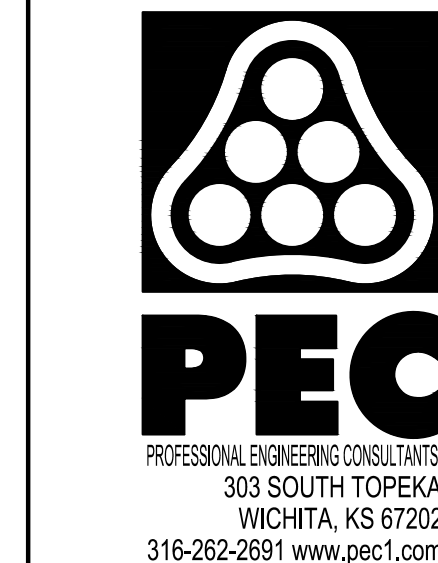


BACK OF CURB PROTECTION,
 CURB INLET PROTECTION AND
 CONSTRUCTION ENTRANCE

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE
CITY ENGINEER'S OFFICE	SHEET	
CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		

REVISION DATE: MAY 2013



CONSTRUCTION PLANS

FOR
**HESS PUMP STATION
 SITE VALVE REPLACEMENT
 (PHASES 3-5/D-J)**

PAUL GUNZELMAN, P.E. - CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 448-2021-

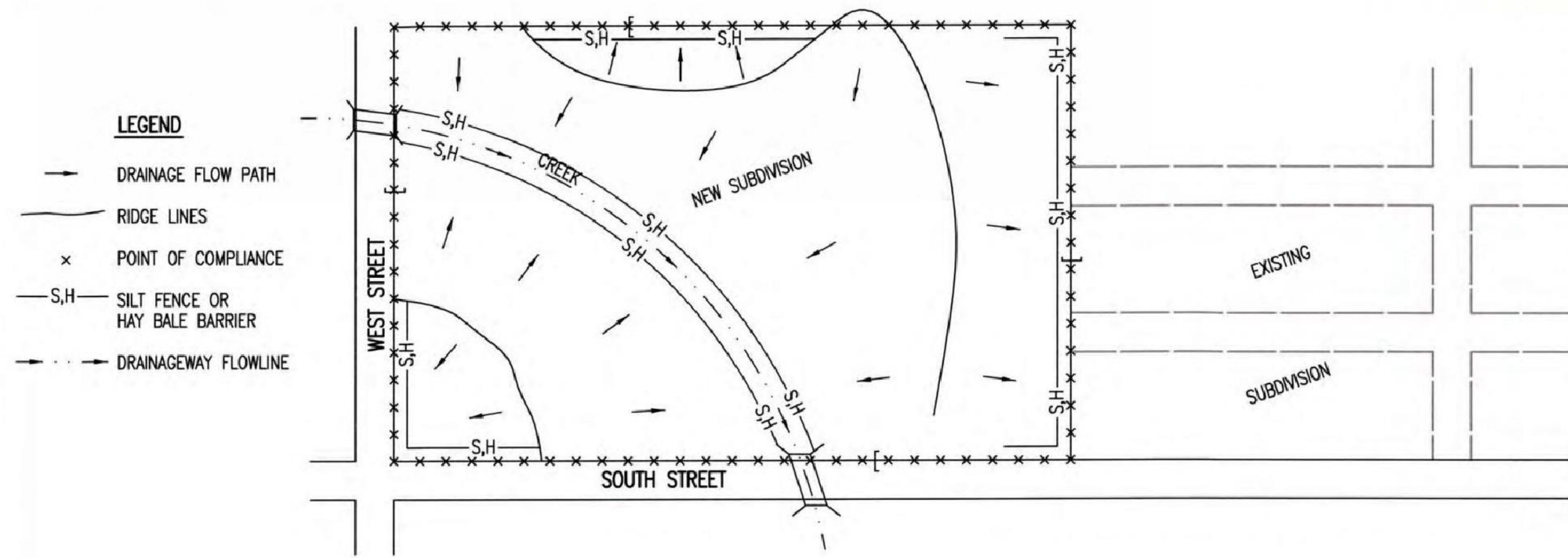
Issue:	
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DRAWN BY	KTD
CHECKED BY	RWG

EROSION CONTROL DETAILS

CU502

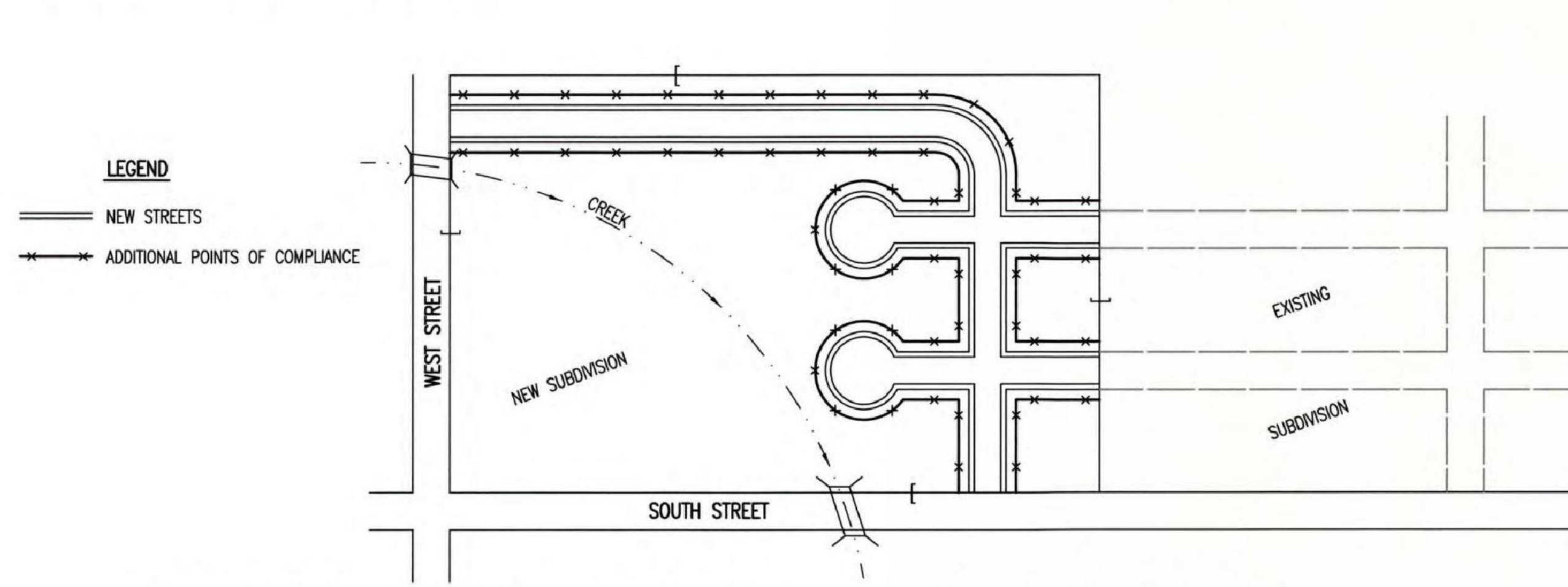
SW-501

PHASE 1 – INITIAL EARTHWORK AND UTILITIES (EXCEPT STORM SEWER)



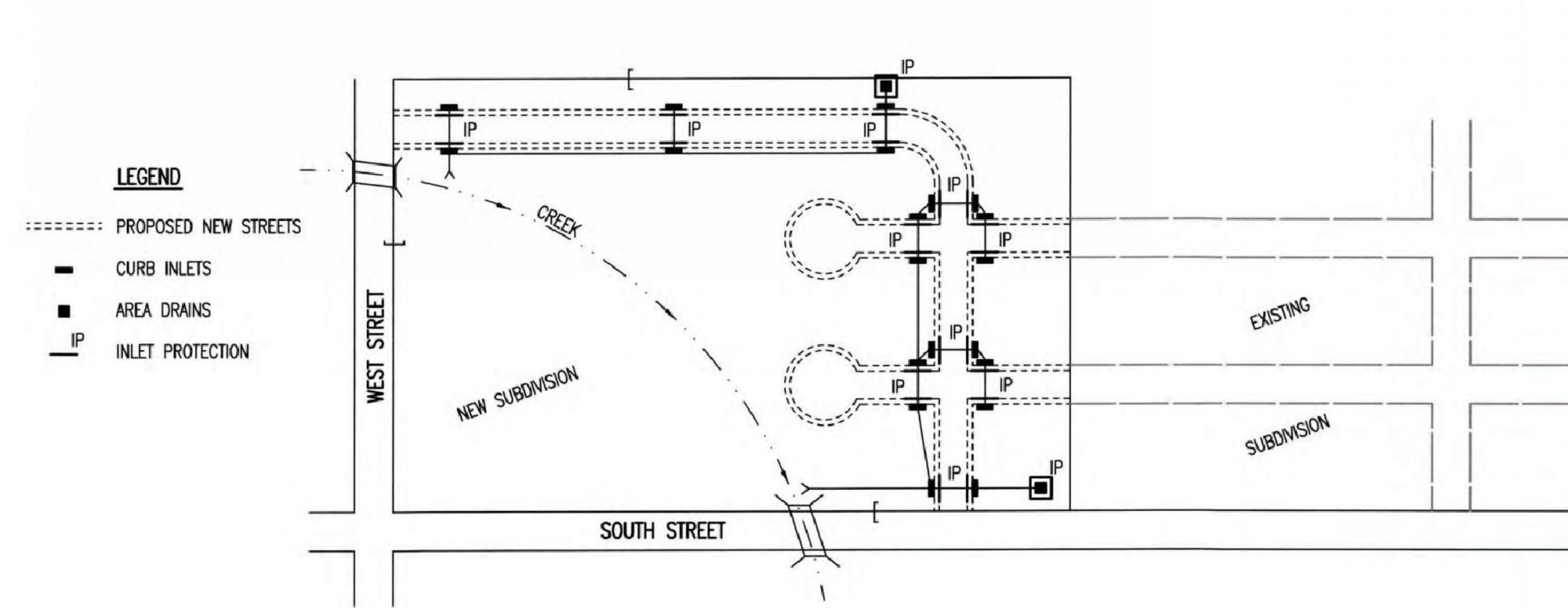
- DURING THIS PHASE OF SUBDIVISION CONSTRUCTION, THE POINTS OF COMPLIANCE ARE THE PERIMETER BOUNDARIES AND ANY DRAINAGE WAYS OR STORM SEWERS DRAINING THROUGH OR FROM THE SITE. SHOULD LAKES BE CONSTRUCTED WITHIN THE SUBDIVISION THAT WILL DISCHARGE DURING STORMS, THEY ARE ALSO A POINT OF COMPLIANCE.
- HAY BALES OR SILT FENCE MUST BE CONSTRUCTED ALONG THE PROPERTY LINE WHERE ON SITE WATER CAN DRAIN OFF THE PROPERTY. THESE EROSION CONTROL DEVICES WILL ALSO BE INSTALLED ALONG ANY DRAINAGE DITCH OR LAKE THAT CAN DISCHARGE.
- SHOULD SILT OR SEDIMENT ENTER THE DITCHES OR STREETS ON THE ADJACENT BOUNDARY STREETS, APPROPRIATE EROSION CONTROL DEVICES WILL BE PLACED WITHIN THE SUBDIVISION TO PREVENT THIS.
- ANY MUD TRACKED ONTO ADJACENT STREETS WILL BE REMOVED WITHIN 48 HOURS OR BY FRIDAY AT 6:00 PM, WHICHEVER IS EARLIER.
- CONTRACTORS WORKING WITHIN THE SITE WILL NOT BE REQUIRED TO USE INDIVIDUAL EROSION CONTROL DEVICES AS LONG AS THOSE SPECIFIED ABOVE ARE IN PLACE AND EFFECTIVE. CONTRACTORS WORKING ON THE BOUNDARY LINE STREETS OR ON ADJACENT PROPERTIES TO EXTEND UTILITIES ARE EXPECTED TO USE EROSION CONTROL DEVICES AT THEIR WORK LOCATIONS, AS NEEDED.
- UTILIZE STABILIZED CONSTRUCTION ENTRANCE AT ENTRANCE AND EXIT ONTO ANY EXISTING PUBLIC STREETS.
- IF THE INITIAL EARTH WORK AND UTILITIES ARE DONE AS PART OF A PUBLIC IMPROVEMENT PROJECT, THESE EROSION CONTROL DEVICES WILL BE INSTALLED BY THE CONTRACTOR AS SPECIFIED IN THE INDIVIDUAL PROJECT CONTRACTS. THE CONTRACTOR WILL MAINTAIN THE DEVICES UNTIL COMPLETION OF THE CONTRACT, AT WHICH TIME THE DEVELOPER WILL ASSUME MAINTENANCE RESPONSIBILITIES. IF THESE CONTRACTS ARE NOT PUBLIC IMPROVEMENT PROJECTS, THE DEVELOPER WILL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THESE DEVICES.
- WITHIN 14 DAYS OF COMPLETION OF EARTHWORK ACTIVITIES IN ANY GIVEN AREA, THAT AREA SHALL BE TEMPORARILY OR PERMANENTLY SEEDED AND MULCHED.

PHASE 3 – STREET CONSTRUCTION



- DURING THIS PHASE OF SUBDIVISION CONSTRUCTION, NEW STREETS ARE INSTALLED. ALL EROSION CONTROL DEVICES INSTALLED DURING PHASE 1 AND 2 MUST STILL BE MAINTAINED. THE POINT OF COMPLIANCE NOW SHIFTS TO THE BACK OF CURB ALONG EACH STREET.
- CURB OPENING INLET PROTECTION:
 - SUMP AREAS – INLET PROTECTION SHALL BE PROVIDED WHEN STREET SUBGRADE WORK IS COMPLETED.
 - NON-SUMP LOCATIONS – PROVIDE INLET PROTECTION AS SOON AS BASE COURSE ASPHALT IS INSTALLED, BEFORE THE SURFACE COURSE LIFT.
- EROSION CONTROL DEVICES WILL BE REQUIRED BACK OF CURB WHEREVER WATER CAN FLOW OVER THE CURB AND THE CURB HAS BEEN BACKFILLED TO WITHIN 3" OR LESS OF THE TOP OF CURB (SEE CURB BACKFILL DETAIL). FOR CURBS NOT YET ENTIRELY BACKFILLED (3" OR MORE BELOW TOP OF CURB), ADDITIONAL DEVICES WILL BE REQUIRED AT POINTS WHERE WATER BREAKS OVER CURB WHICH COULD RESULT IN THE PLACEMENT OF SEDIMENT IN THE GUTTER.
- SEE DETAIL SHEET FOR BACK OF CURB PROTECTION.
- THE BACK OF CURB PROTECTION SPECIFIED ON THIS PLAN MAY HAVE TO BE SUPPLEMENTED WITH HAY BALE OR SILT FENCE EROSION CONTROL DEVICES AT LOCATIONS WHERE CONCENTRATED FLOW RESULTS IN SEDIMENT BEING CARRIED OVER THE EXCELSIOR MATS.
- THE STREET CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING BACK OF CURB EROSION CONTROL DEVICES.
- THE INDIVIDUAL LOT OWNERS WILL BE RESPONSIBLE FOR MAINTAINING THE BACK OF CURB EROSION CONTROL DEVICES IN FRONT OF THEIR LOTS UNTIL SUCH TIME AS ADJACENT DISTURBED EARTH IS STABILIZED WITH GRASS OR SOD.

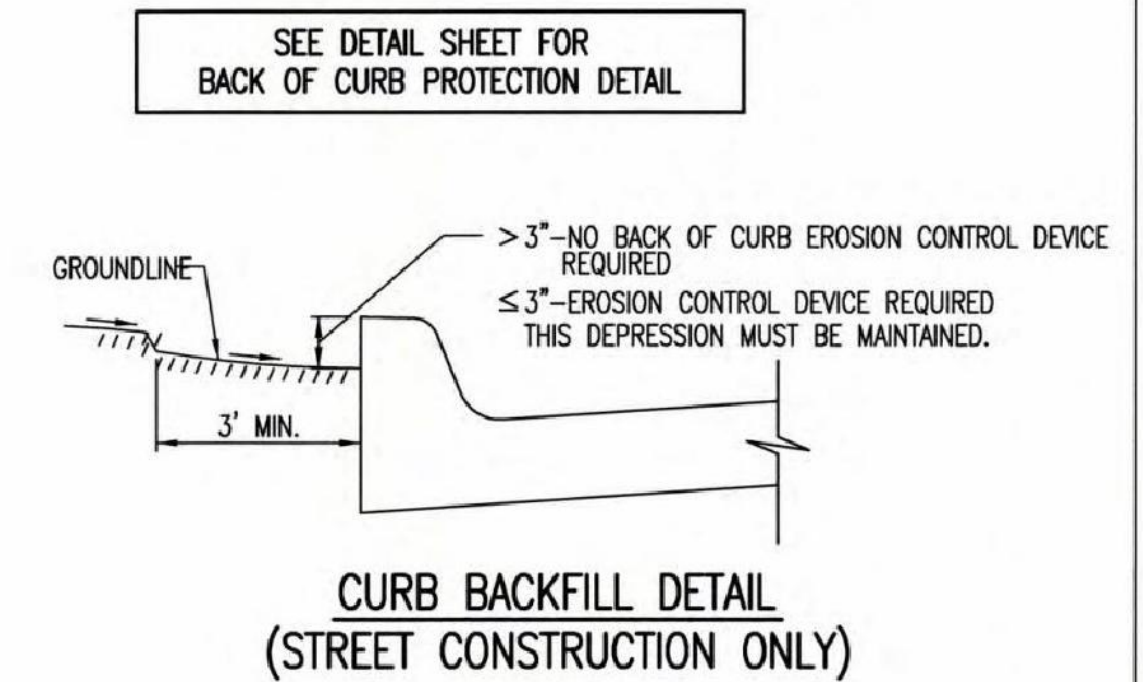
PHASE 2 – INSTALLATION OF STORM SEWER



- DURING THIS PHASE OF SUBDIVISION DEVELOPMENT, ALL EROSION CONTROL DEVICES REQUIRED IN PHASE 1 SHALL REMAIN IN PLACE AND BE MAINTAINED.
- AS NEW STORM SEWERS, WITH INLETS, ARE INSTALLED, THE STORM SEWERS MUST NOW BE PROTECTED SO ALL NEW INLETS BECOME POINTS OF COMPLIANCE.
- AREA DRAINS – AS SOON AS WATER CAN FLOW INTO THESE DRAINS, HAY BALE OR SILT FENCE PROTECTION WILL BE INSTALLED AROUND THEM.
- CURB OPENING INLETS – AS SOON AS WATER CAN FLOW INTO THESE DRAINS, INLET PROTECTION DEVICES MUST BE INSTALLED. IF WATER CANNOT FLOW INTO CURB INLETS UNTIL STREET CONSTRUCTION IS COMPLETE, THEN STREET CONTRACTOR WILL INSTALL INLET PROTECTION. SEE PHASE 3 – STREET CONSTRUCTION.
- THE STORM SEWER CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING THESE DEVICES.
- THE SUBDIVISION DEVELOPER WILL MAINTAIN THESE EROSION CONTROL DEVICES ONCE INSTALLED.
- ALL DISTURBED GROUND WILL BE FINAL GRADED AND TEMPORARILY OR PERMANENTLY SEEDED WITHIN 14 DAYS IF COMPLETION OF WORK IN ANY GIVEN PART OF THE SUBDIVISION.
- ONCE ALL DISTURBED GROUND DRAINING TO AN INLET HAS BEEN RESTABILIZED WITH GRASS OR SOD, THE SUBDIVISION DEVELOPER WILL BE RESPONSIBLE FOR PERMANENTLY REMOVING THE INLET PROTECTION.

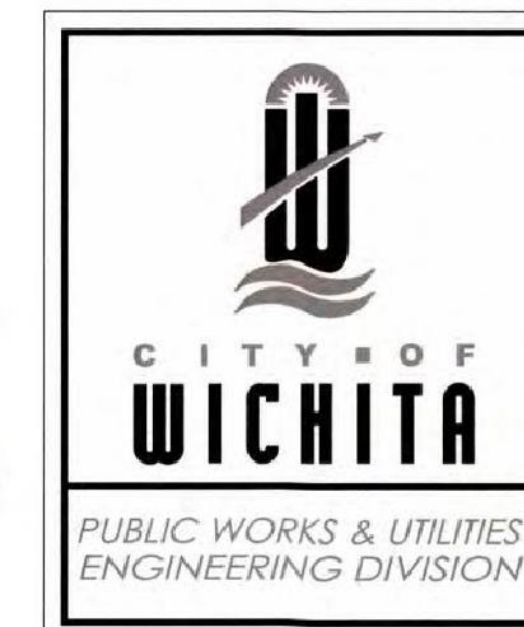
GENERAL NOTES

- THE INTENT OF ALL EROSION CONTROL DEVICES IS TO PREVENT ERODED SOIL FROM ENTERING DITCHES, STORM SEWERS, LAKES, STREETS OR ANY OTHER DRAINAGE FEATURE.
- THIS SHEET IS INTENDED TO PROVIDE GUIDELINES AS TO WHAT TYPE OF EROSION CONTROL DEVICES WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS. CONTRACTORS ARE EXPECTED TO BID PROJECTS ACCORDINGLY.
- EROSION CONTROL DEVICES SHALL BE MAINTAINED DURING THE CONSTRUCTION PROCESS TO REMAIN EFFECTIVE. MAINTENANCE SHALL BE AS INDICATED ON SOIL EROSION BMP'S DETAIL SHEETS.
- PERSONS DESTROYING EROSION CONTROL DEVICES SHALL BE RESPONSIBLE FOR IMMEDIATELY REPAIRING THEM OR INSTALLING SUITABLE REPLACEMENT DEVICES.
- THE DEVELOPMENT OF ANY SUBDIVISION THAT DISTURBS 1 ACRE OR MORE WILL REQUIRE A FEDERAL/STATE NPDES STORMWATER PERMIT. THE PREPARATION OF A STORMWATER POLLUTION PREVENTION PLAN IS REQUIRED. EROSION CONTROL DEVICES ARE REQUIRED. THE DETAILS SHOWN ON THIS SHEET ARE THE MINIMUM STANDARDS TO BE SHOWN ON POLLUTION PREVENTION PLANS.
- FOR SUBDIVISIONS SMALLER THAN 1 ACRE, SOIL EROSION DEVICES ARE REQUIRED. ALSO, DEVELOPERS AND CONTRACTORS ARE ENCOURAGED TO DEVELOP POLLUTION PREVENTION PLANS FOR EACH PROJECT PRIOR TO CONSTRUCTION.
- FAILURE TO USE AND MAINTAIN SOIL EROSION DEVICES IS A VIOLATION OF SECTION 16.32 OF THE CITY CODE AND WILL SUBJECT THE SUBDIVISION DEVELOPER AND CONTRACTORS TO THE PENALTIES PROVIDED THEREIN.
- THE APPLICATION OF EROSION CONTROL DEVICES SHOWN ON THIS SHEET IS FOR SITUATIONS NORMALLY ENCOUNTERED. FROM TIME TO TIME, SITUATIONS WILL ARISE THAT MAY REQUIRE DEVICES OTHER THAN THAT SHOWN. EROSION CONTROL DEVICES, OTHER THAN THOSE SHOWN, MAY BE UTILIZED SO LONG AS THEY ARE EFFECTIVE AND MAINTAINED.
- A STABILIZED EARTH SURFACE IS DEFINED AS ONE THAT IS HARD SURFACED WITH CONCRETE, ASPHALT, OR THE LIKE, OR ONE ON WHICH 70% OF THE GRASS HAS GERMINATED ON THE ENTIRE SURFACE.



THIS IS A TEMPORARY MEASURE ONLY, WHEN APPROVED BY THE PROJECT ENGINEER. THE DIRT GRADE BEHIND THE CURB SHALL BE BROUGHT TO THE TOP OF CURB, WITH TEMPORARY EROSION CONTROL MAT OR PERMANENT VEGETATION PLACED, PRIOR TO THE COMPLETION OF ALL PROJECTS.

REVISION DATE: MAY 2013



SUBDIVISION DEVELOPMENT PROCESS		
CITY ENGINEER GARY JANZEN, P.E.		
PROJECT NUMBER	OCA NUMBER	DATE
CITY ENGINEER'S OFFICE	SHEET	
CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4301		



CONSTRUCTION PLANS
 FOR
HESS PUMP STATION
SITE VALVE REPLACEMENT
(PHASES 3-5/D-J)
 PAUL GUNZELMAN, P.E. - CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 448-2021-

Issue:	
JOB NO.	35-200335-004-0042
DATE	SEPTEMBER 2024
PM	TBK
DESIGNED BY	KJW
DRAWN BY	KTD
CHECKED BY	RWG

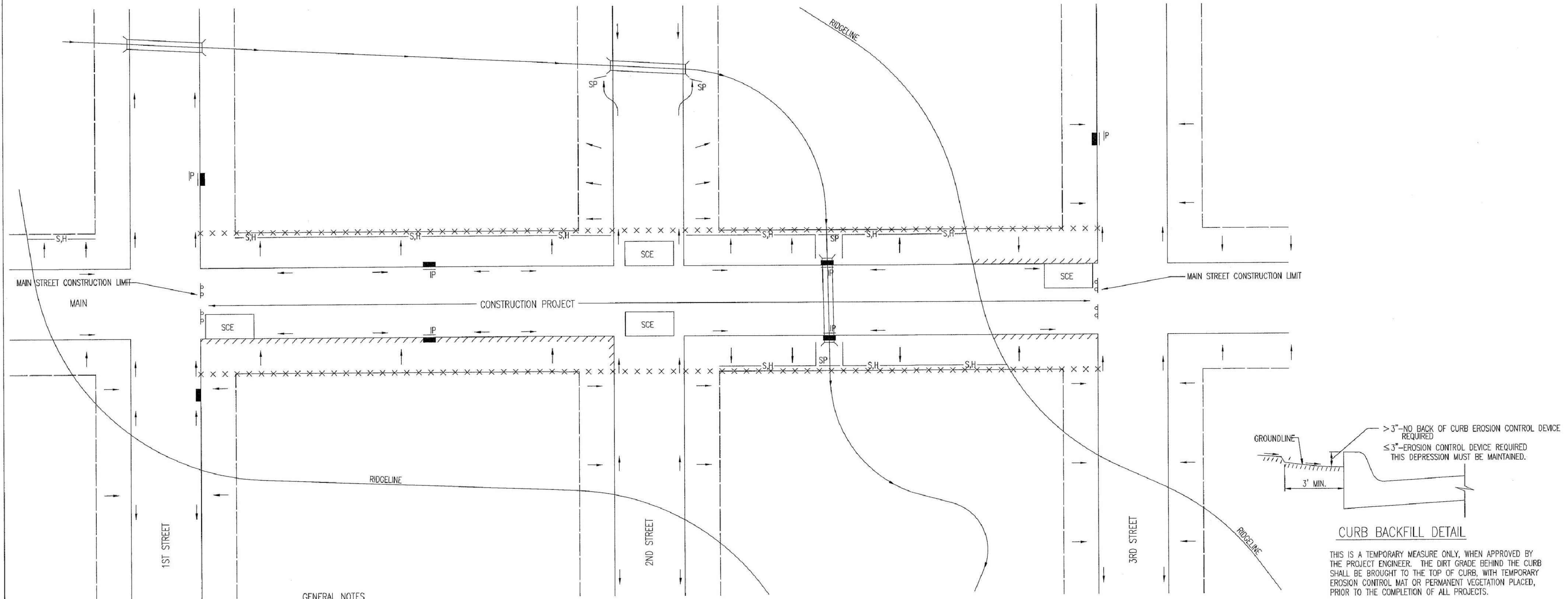
EROSION CONTROL DETAILS

CU505

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GENERAL NOTES

- THIS SHEET IS INTENDED TO PROVIDE GUIDELINES AS TO WHAT TYPES OF EROSION CONTROL DEVICES WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS. CONTRACTORS ARE EXPECTED TO BID PROJECTS ACCORDINGLY.
- EROSION CONTROL DEVICES MUST BE MAINTAINED BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS AND UNTIL THE DISTURBED EARTH IS RESTABILIZED.
- IF THE PROJECT WILL DISTURB 1 ACRE OR MORE, A FEDERAL/STATE NPDES STORMWATER PERMIT IS REQUIRED. A DETAILED STORMWATER POLLUTION PREVENTION PLAN IS REQUIRED. THE EROSION CONTROL DEVICES SHOWN ON THIS SHEET ARE CONSIDERED TO BE THE MINIMUM TO BE SHOWN IN THE POLLUTION PREVENTION PLAN.
- FOR PROJECTS DISTURBING LESS THAN 1 ACRE, CONTRACTORS ARE ENCOURAGED TO PREPARE STORMWATER POLLUTION PREVENTION PLANS PRIOR TO CONSTRUCTION. EROSION CONTROL DEVICES MUST BE USED ON ALL PROJECTS.
- FAILURE TO USE AND MAINTAIN EROSION CONTROL DEVICES IS A VIOLATION OF SECTION 16.32 OF THE CITY CODE AND WILL SUBJECT THE CONTRACTOR TO THE PENALTIES PROVIDED FOR THEREIN.
- THE APPLICATION OF EROSION CONTROL DEVICES SHOWN ON THIS SHEET IS FOR SITUATIONS NORMALLY ENCOUNTERED. FROM TIME TO TIME, SITUATIONS WILL ARISE THAT MAY REQUIRE A DIFFERENT DEVICE OTHER THAN THOSE SHOWN. EROSION CONTROL DEVICES, OTHER THAN THOSE SHOWN, MAY BE UTILIZED AS LONG AS THEY ARE EFFECTIVE AND MAINTAINED.

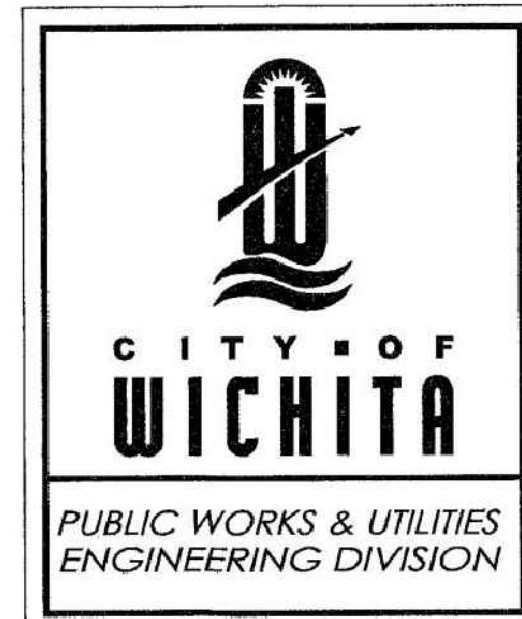


GENERAL NOTES

- THE INTENT OF ALL EROSION CONTROL DEVICES IS TO KEEP ALL SEDIMENT CONFINED TO THE CONSTRUCTION SITE, AND OUT OF ALL UNDERGROUND PIPES, DITCHES, LAKES, AND OTHER DRAINAGE FACILITIES, AND OFF OF STREETS.
- THE POINT OF COMPLIANCE IS GENERALLY THE RIGHT-OF-WAY LINES WITHIN THE LIMITS OF CONSTRUCTION.
- EROSION CONTROL DEVICES WILL BE REQUIRED AT ALL POINTS ALONG THE PROJECT WHERE DISTURBED EARTH CAN DRAIN ONTO PRIVATE PROPERTY.
- INLET PROTECTION DEVICES WILL BE REQUIRED WHEREVER WATER CAN DRAIN OFF THE PROJECT SITE INTO AN INLET, INCLUDING ANY SIDE STREET INLETS.
- EROSION CONTROL DEVICES SHALL BE INSTALLED AT CREEK CROSSINGS SO AS TO PREVENT SEDIMENT FROM ENTERING THEREIN.
- STABILIZED CONSTRUCTION ENTRANCES SHALL BE PROVIDED, AS NEEDED, TO PREVENT MUD FROM TRACKING ONTO STREETS NOT UNDER CONSTRUCTION AND ON STREETS WITHIN THE PROJECT LIMITS IF TRAFFIC IS BEING MAINTAINED THROUGH THE PROJECT.
- ANY MUD TRACKED ONTO STREETS MUST BE REMOVED AT THE END OF EACH WORK DAY.
- THE CONTRACTOR WILL BE REQUIRED TO PLACE EROSION CONTROL DEVICES BACK OF CURB, WHENEVER WATER CAN DRAIN OVER CURB, TO KEEP ERODED SOIL OUT OF THE GUTTERLINES, IN ACCORDANCE WITH THE FOLLOWING:
 - THE DEVICE REQUIRED WILL BE APPROVED EROSION CONTROL MAT LISTED ON THE CITY'S APPROVED MATERIAL LIST. SAID BLANKET SHALL BE PLACED OVER THE APPROPRIATE SEED AND FERTILIZER, AS SPECIFIED IN THE PROJECT SPECIFICATIONS. (SEE SOIL EROSION BMPs - BACK OF CURB SEDIMENT BARRIER DETAILS)
 - THIS DEVICE SHALL BE INSTALLED IMMEDIATELY WHENEVER THE CURB IS BACKFILLED TO WITHIN 3" OF THE TOP OF CURB. (SEE CURB BACKFILL DETAIL) OTHER BMP'S MAY BE REQUIRED AT LOCATIONS WHERE CONCENTRATED FLOW CARRIES SEDIMENT OVER THE CURB.
 - ADDITIONALLY, OTHER EROSION CONTROL DEVICES (HAY BALES, SILT FENCE, ETC.) WILL BE INSTALLED AT LOCATIONS OF CONCENTRATED FLOW RESULTING IN SEDIMENT OVERRUNNING THE MAT.
 - SHOULD THE PROJECT PLANS SPECIFY THAT THE RIGHT-OF-WAY IS TO BE SOODED, THE EXCELSIOR MAT WILL NOT BE REQUIRED SO LONG AS THE SOD IS PLACED WITHIN 48 HOURS AFTER CURB BACKFILL REACHES A HEIGHT OF 3" OR LESS FROM TOP OF CURB. (SEE CURB BACKFILL DETAIL)

LEGEND

- R-O-W LIMITS
- DRAINAGE FLOW PATH
- × × × × R/W LIMIT WITHIN CONSTRUCTION LIMIT
- STORM WATER INLETS
- IP INLET PROTECTION
- S,H— SILT FENCE OR HAY BALE BARRIER
- SP STREAM PROTECTION
- SCE STABILIZED CONSTRUCTION ENTRANCE
- //// BACK OF CURB PROTECTION



STREET IMPROVEMENT PROJECTS		
CITY ENGINEER GARY JANZEN, P.E.		
PROJECT NUMBER	OCA NUMBER	DATE
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		SHEET

REVISION: JUNE 2015

SW-504



CONSTRUCTION PLANS

**FOR
HESS PUMP STATION
SITE VALVE REPLACEMENT
(PHASES 3-5/D-J)**

PAUL GUNZELMAN, P.E. - CITY ENGINEER
CITY OF WICHITA PROJECT NO. 448-2021-

Issue:		

JOB NO.	35-200335-004-0042
DATE	SEPTEMBER 2024
PM	TBK
DESIGNED BY	KJW
DRAWN BY	KTD
CHECKED BY	RWG

EROSION CONTROL DETAILS

CU506

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GENERAL STRUCTURAL NOTES

A. DESIGN CRITERIA

1. BUILDING CODE: INTERNATIONAL BUILDING CODE (IBC), 2018 EDITION, INCLUDING LOCAL SUPPLEMENTS.

2. GRAVITY LOADS:

LOCATION	LIVE LOAD	DEAD LOAD*
Vault Cover	HS20-44 (VEHICLE LOAD)	5 PSF

*DEAD LOAD WHICH IS SUPERIMPOSED ONTO ACTUAL STRUCTURAL WEIGHTS DOES NOT INCLUDE SOIL SURCHARGE.

3. SOIL LOADS

SOIL WEIGHT:	120 PCF
EXTERNAL SOIL PRESSURE	90 PCF (SATURATED)

B. DELEGATED ENGINEERING OF STRUCTURAL COMPONENTS & SYSTEMS

1. ALL STRUCTURAL COMPONENTS & SYSTEMS DESIGNED AND SEALED BY A SPECIALTY STRUCTURAL ENGINEER (SSE) SHALL MEET THE GUIDELINES PUBLISHED BY THE COUNCIL OF AMERICAN STRUCTURAL ENGINEERS (CASE) FOR DELEGATED SPECIALTY STRUCTURAL ENGINEERING.

2. WHEN COMPONENTS & SYSTEMS SPECIFIED ARE DELEGATED, THE SHOP DRAWINGS SHALL HAVE THE FOLLOWING:

- A. PROVIDE A FULL DESIGN ANALYSIS INCLUDING CALCULATIONS WITH A SEALED COVER SHEET IDENTIFYING THE PROJECT NAME AND ADDRESS.
- B. THE ENGINEER THAT SEALED THE CALCULATIONS SHALL ALSO SEAL THE FABRICATION, PLACING, AND ERECTION PLANS. EACH PLAN SHALL IDENTIFY THE PROJECT NAME/ADDRESS.
- C. THE ENGINEER THAT SEALED THE PLANS SHALL STATE THAT HE HAS COMPLETED A DETAILED REVIEW OF THE CONTRACT DOCUMENTS AND HAS INCORPORATED THE PERFORMANCE CRITERIA INTO THE SUBMITTAL.

3. THE CONTRACTOR SHALL REVIEW THE SUBMITTAL FOR QUANTITIES AND DIMENSIONS AND VERIFY THAT THE ABOVE INFORMATION HAS BEEN INCLUDED IN THE SUBMITTAL.

PRECAST CONCRETE

1. AT THE CONTRACTORS OPTION A PRECAST STRUCTURE MAY BE USED IN PLACE OF THE CAST IN PLACE STRUCTURE. ALL EARTHWORK AND QUALITY ASSURANCE MEASURES SHALL BE AS NOTED IN THE STRUCTURAL GENERAL NOTES AND DETAILS.

2. REF. DELEGATED ENGINEERED STRUCTURAL COMPONENTS & SYSTEM FOR SUBMITTAL REQUIREMENTS.

3. REF. DESIGN CRITERIA FOR BUILDING CODE, SERVICE CRITERIA AND LOADS TO BE USED IN DESIGN.

4. ADDITIONAL DETAILED CRITERIA

- A. PRECAST COMPONENTS & CONNECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH THE PCI DESIGN HANDBOOK, ASTM C913 (RECTANGULAR), OR ASTM C478 (ROUND). NON-STANDARD MEMBER CROSS-SECTIONS SHALL BE APPROVED BY THE ENGINEER IN ADVANCE OF SHOP DRAWINGS.
- B. ALL OPENINGS GREATER THAN 6" ON A SIDE SHALL BE NEATLY FORMED TO DIMENSIONS. OPENINGS 6" OR SMALLER MAY BE CORE DRILLED IN THE FIELD.
- C. CONCRETE SHALL MEET THE REQUIREMENTS OF THE MIX DESIGN SECTION UNDER CONCRETE. SELF-CONSOLIDATION CONCRETE MAY BE USED WITH APPROVAL PRIOR TO USE.
- D. DO NOT REMOVE CONCRETE FROM FORMS UNTIL THE CONCRETE HAS ATTAINED SUFFICIENT STRENGTH NOT TO BE DAMAGED BY FORM REMOVAL OPERATION. ALL EXPOSED FORM TIES MUST BE REMOVED SO THAT NONE ARE VISIBLE.
- E. GROUT UNDER PIECES WITH NON-SHRINK NON-METALLIC GROUT THAT HAS THE SAME STRENGTH AS THE PRECAST.

C. SOIL PREPARATION AND FOUNDATIONS

1. SOIL SUPPORTED FOUNDATIONS:

- A. DESIGN BEARING PRESSURE (NET) IS 1500 PSF FOR FOUNDATIONS BEARING ON UNDISTURBED SOIL OR APPROVED ENGINEERED FILL MATERIAL.
- B. ALL FOUNDATIONS ARE DESIGNED WITH EARTH FORMED SIDES; THE TOP 7/8" OF THE FOUNDATION SHALL BE FORMED TO THE DESIGN DIMENSION WHEN VISIBLE AFTER CONSTRUCTION IS COMPLETE. THE CONSTRUCTED FOUNDATION DIMENSION SHALL BE NO LESS THAN THE DESIGN DIMENSION, AND NO MORE THAN 6" GREATER THAN THE DESIGN DIMENSION.

2. DO NOT BACKFILL FOUNDATION WALLS UNTIL THE RESTRAINING COVER SLAB OR ADEQUATE BRACING ARE IN PLACE AND CONCRETE STRENGTH HAS REACHED 75% OF DESIGN STRENGTH. ALL BACKFILL SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATION.

D. CONCRETE

1. ALL STRUCTURAL CONCRETE HAS BEEN DESIGNED IN ACCORDANCE WITH THE ACI 318 AND THE BUILDING CODE, AND IN CONFORMANCE WITH THE CURRENT "ACI MANUAL OF CONCRETE PRACTICE."

2. THE CONCRETE REQUIREMENTS ARE:

A. CEMENT SHALL BE TYPE I OR II CONFORMING TO ASTM C150. FLY ASH CONFORMING TO ASTM C618 TYPE C OR F MAY BE USED TO REPLACE A MAXIMUM OF 20% OF THE CEMENT BY WEIGHT.

B. FINE AGGREGATE FOR NORMAL WEIGHT CONCRETE SHALL MEET ASTM C33.

C. COARSE AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C33, GRADE 67 OR LARGER. COARSE AGGREGATES SHALL BE NO LESS THAN 50% OF THE TOTAL AGGREGATE BY WEIGHT, UNLESS APPROVED BY THE ENGINEER PRIOR TO MIX DESIGN SUBMITTAL.

D. MIX REQUIREMENTS ARE:

LOCATION	MIN. F _c (PSI)	MIN. CEM.(PCY)	MAX. W/C RATIO	AIR CONTENT	SLUMP§ INCHES
CAST-IN-PLACE PRECAST	4500	560	0.42	5%±1%	3-5
	5000	---	---	---	---

§ PRIOR TO THE ADDITION OF HIGH RANGE WATER REDUCERS, IF APPROVED BY ENGINEER, AFTER ADDITION THE SLUMP MAY NOT EXCEED 8".

F_c SPECIFIED IS BASED ON THE 28 DAY COMPRESSIVE STRENGTH IN ACCORDANCE WITH ACI 318 ACCEPTANCE CRITERIA

3. ADMIXTURES, HARDENERS, & CURING COMPOUNDS

A. ALL CONCRETE ADMIXTURES SHALL, WHEN MIXED INTO CONCRETE, BE NON-CHLORIDE AND NON-CHLORIDE FORMING.

B. ALL ADMIXTURES MUST CONFORM TO ASTM C-494 AND C-260.

C. CONCRETE CURING COMPOUND AND SEALERS SHALL MEET ASTM C-309 TYPE 1 OR 1D.

D. THE CONTRACTOR SHALL VERIFY THAT ALL ADMIXTURES, HARDENERS, CURING COMPOUNDS, AND FLOOR COVERING ADHESIVES ARE COMPATIBLE WITH EACH OTHER.

4. MISCELLANEOUS CONCRETE DETAILS:

A. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" INSIDE FORMS OR TOOLED TO 3/4" RADIUS UNLESS NOTED OTHERWISE.

B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL FORMING AND SHORING. SHORING FOR ELEVATED SLABS SHALL BE SET SO THAT ANY LOAD DUE TO THE CONCRETE OPERATIONS DOES NOT CAUSE THE FORMS TO SETTLE (SLACK, TAKE-UP, ETC.).

C. NO ALUMINUM SHALL BE EMBEDDED IN CONCRETE. CONDUITS AND PIPING EMBEDDED IN CONCRETE WALLS, SLABS, OR BEAMS SHALL BE SPACED A MINIMUM OF FOUR DIAMETERS AND THE OUTSIDE DIAMETER SHALL BE LESS THAN 30% OF THE MEMBER THICKNESS AND PLACED BETWEEN LAYERS OF REINFORCING.

D. NO CONDUIT MAY BE EMBEDDED IN TOPPING SLABS ON PRECAST CONCRETE UNLESS SPECIFICALLY DETAILED OR NOTED OTHERWISE ON STRUCTURAL PLANS.

E. WATERSTOP AT PRECAST JOINTS, OPENINGS, AND PENETRATIONS SHALL BE "SWELLSTOP" (3/4"x1") BY GREENSTREAK OR APPROVED EQUAL. WATERSTOP AT CAST IN PLACE JOINTS SHALL BE PVC WATERSTOP MODEL NO. 702 BY GREENSTREAK OR APPROVED EQUAL.

F. PROVIDE EXTERIOR WATERPROOFING AT ALL CONCRETE SURFACES BELOW GRADE. USE 2 COATS OF SEAL MASTIC BY W.R. MEADOWS OR APPROVED EQUAL. APPLY PER MANUFACTURER'S RECOMMENDATIONS.

G. SAW CUTTING OF EXISTING STRUCTURAL CONCRETE.

- 1. THE CONTRACTOR SHALL HAVE ALL STRUCTURAL CONCRETE INTENDED TO BE CORED OR CUT INVESTIGATED WITH GROUND PENETRATING RADAR (GPR) PRIOR TO CUTTING/CORING. LOCATION OF REINFORCING SHALL BE REPORTED TO THE ENGINEER OF RECORD (EOR). THE EOR MAY DIRECT THE CONTRACTOR TO ADJUST THE OPENING LOCATION TO REDUCE THE QUANTITY OF EXISTING REINFORCING THAT WILL BE CUT.
- 2. ALL NEW CIRCULAR OPENINGS SHALL BE CORE DRILLED. ALL NEW RECTANGULAR OPENINGS SHALL BE CORE DRILLED IN EACH CORNER TO PREVENT OVERCUTTING BEYOND THE INTENDED CORNERS. THE CONTRACTOR SHALL APPLY APPROPRIATE PRESSURE TO THE EQUIPMENT TO PREVENT SPALLING OVER 1/2" ON THE BACK SIDE OF THE OPENING.

E. CONCRETE REINFORCING (CAST-IN-PLACE & PRECAST)

1. MATERIALS:

	ASTM	GRADE
PLATE & ANGLE	A36	---
REINFORCING BARS:	A615	60
WELDED WIRE FABRIC-WWF (PRECAST ONLY):	A185	60 (MIN.)
HEADED STUDS:	A108	---
DEFORMED BAR ANCHORS:	A706	60

2. DETAILS:

A. WELDING OF REINFORCING BARS IS PROHIBITED.

3. EMBEDMENTS

A. ALL EMBEDDED PLATES AND ANCHOR RODS SHALL BY HOT DIP GALVANIZED. COATINGS IN THE WELD AREA SHALL BE REPAIRED.

4. PLACEMENT

A. ALL REINFORCING (BARS, ANCHOR RODS, EMBEDMENTS, WWF, ETC.) SHALL BE SUPPORTED ON CHAIRS/BOLSTERS TO THE DESIGN DIMENSIONS. SPACING SHALL BE SUFFICIENTLY CLOSE TO PREVENT DISPLACEMENT OR PERMANENT DEFORMATION DUE TO CONCRETE PLACEMENT, FOOT TRAFFIC, OR VIBRATION. "PUDDLING IN" OR "PULLING UP" REINFORCING IS NOT AN ACCEPTABLE METHOD FOR PLACING REINFORCING. CHAIRS/BOLSTERS SHALL HAVE PLASTIC COATED FEET OR BE MADE OF STAINLESS STEEL.

B. MAINTAIN ACI CLEAR COVER ON REINFORCING AS LISTED BELOW UNLESS NOTED OTHERWISE.

CAST AGAINST EARTH (BOTTOM OR SIDES):	3"
FORMED - EXPOSED TO SOIL, WEATHER OR LIQUIDS:	2"
PRECAST:	1 1/2"

C. PROVIDE CORNER BARS OF THE SAME SIZE AND SPACING AS ADJACENT REINFORCING. REFERENCE DETAILS. CONTINUOUS WALL FOOTING REINFORCING NEED ONLY TO OVERLAP.

D. OPENINGS IN WALLS OR STRUCTURAL SLABS SHALL BE REINFORCED PER DETAIL.

E. ALL REINFORCING BARS ARE TO BE MADE CONTINUOUS OR LAPPED PER ACI.

F. WWF SHALL BE MADE CONTINUOUS BY LAPPING ONE FULL SQUARE PLUS 2". (PRECAST ONLY)

F. POST INSTALLED ANCHORING SYSTEMS

1. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII) AND THE EVALUATION REPORT (ER/ESR) SPECIFIED INCLUDING HOLE PREPARATION, TEMPERATURE AND MOISTURE CONDITIONS.

2. ADHESIVE ANCHORS:

A. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL ANCHOR PRODUCTS SPECIFIED. THE CONTRACTOR MUST MAINTAIN TRAINING RECORDS OF ALL CONTRACTOR PERSONNEL INSTALLING ANCHORS AND SUBMIT TO THE ENGINEER OF RECORD PRIOR TO INSTALLING ANCHORS UPON REQUEST.

B. ADHESIVE ANCHORS SHALL BE USED IN CONJUNCTION WITH THE APPROPRIATE ADHESIVE SYSTEM. STANDARD REINFORCING STEEL ANCHORED IN CONCRETE SHALL BE IN ACCORDANCE WITH ASTM A615 GRADE 60 UNLESS NOTED OTHERWISE.

C. APPROVED ADHESIVE ANCHORS FOR PREVIOUSLY CAST CONCRETE:

MANUFACTURER/PRODUCT	REPORT NUMBER
HILTI HIT-HY200 SSS* WITH HIT-Z ROD	ICC-ES ESR-3187
HILTI HIT-HY200 SSS* WITH HOLLOW BIT & HAS-E ROD	ICC-ES ESR-3187
HILTI HIT-HY200 SSS* WITH HOLLOW BIT & STEEL REINFORCING	ICC-ES ESR-3187
*SAFE SET SYSTEM	

G. CONTRACT/CONSTRUCTION DOCUMENTS

1. THE CONTRACT DOCUMENTS SHALL INCLUDE ALL PLANS, SPECIFICATIONS, ADDENDAS, AND SUPPLEMENTAL INSTRUCTIONS.

2. THE CONTRACTOR SHALL REVIEW THE DOCUMENTS PRIOR TO FABRICATION AND/OR INSTALLATION OF ANY MATERIALS FOR CONFLICTS. IF CONFLICTS OCCUR THE CONTRACTOR SHALL USE THE MOST STRINGENT REQUIREMENT. ALTERNATELY, THE CONTRACTOR MAY REQUEST A CLARIFICATION THROUGH A REQUEST FOR INFORMATION (RFI).

3. THE DOCUMENTS MAY NOT BE REPRODUCED IN WHOLE OR IN PART FOR USE ON PROJECTS OTHER THAN IDENTIFIED IN THE TITLE BLOCK. SHOULD THE CONTRACTOR USE THE DOCUMENTS AS A PORTION OF A SHOP DRAWING SUBMITTAL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CONSEQUENCES RESULTING FROM ERRORS IN THE REPRODUCED DOCUMENTS.

4. DETAILS LABELED TYPICAL ARE INTENDED TO REPRESENT A CONDITION THAT OCCURS AT SEVERAL LOCATIONS IN THE PLANS WHETHER OR NOT THE DETAIL IS REFERENCED.

5. DO NOT SCALE THE PLANS AND DETAILS FOR THE PURPOSE OF ESTABLISHING DIMENSIONS.

H. CONTRACTOR'S RESPONSIBILITY

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL SUB-CONTRACTOR SUBMITTALS AND NOTING ALL CONFLICTS WITH THE CONSTRUCTION DOCUMENTS PRIOR TO SUBMITTING TO THE STRUCTURAL ENGINEER FOR REVIEW.

I. CONSTRUCTION MEANS AND METHODS ISSUES

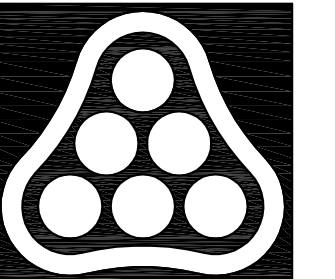
1. THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY BRACING AND/OR SHORES TO SAFELY CONSTRUCT THE STRUCTURE AND PREVENT DAMAGE DURING CONSTRUCTION.

2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS OF EXISTING CONSTRUCTION THAT MAY AFFECT THE PROJECT AND REPORT DISCREPANCIES TO THE ENGINEER. EXISTING BUILDING ELEMENTS THAT ARE TO BE ABANDONED THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE REMOVED.

3. WHEN A PIECE OF EQUIPMENT IS PROVIDED THAT IS DIFFERENT THAN THE EQUIPMENT THAT THE STRUCTURE WAS DESIGNED FOR EITHER BY SIZE, WEIGHT OR CONFIGURATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE REMEDY OF THE SITUATION.

J. STRUCTURAL TESTS, INSPECTIONS, AND QUALITY ASSURANCE

1. ALL STRUCTURAL TESTS AND INSPECTIONS SHALL BE PERFORMED PER CHAPTER 17 OF THE BUILDING CODE WITH LOCAL SUPPLEMENTS, UNLESS MORE STRINGENT REQUIREMENTS ARE SPECIFIED.



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CITY OF
WICHITA



CONSTRUCTION PLANS

FOR

**HESS PUMP STATION
SITE VALVE REPLACEMENT
(PHASES 3-5/D-J)**

PAUL GUNZELMAN, P.E. - CITY ENGINEER
CITY OF WICHITA PROJECT NO. 448-2021-

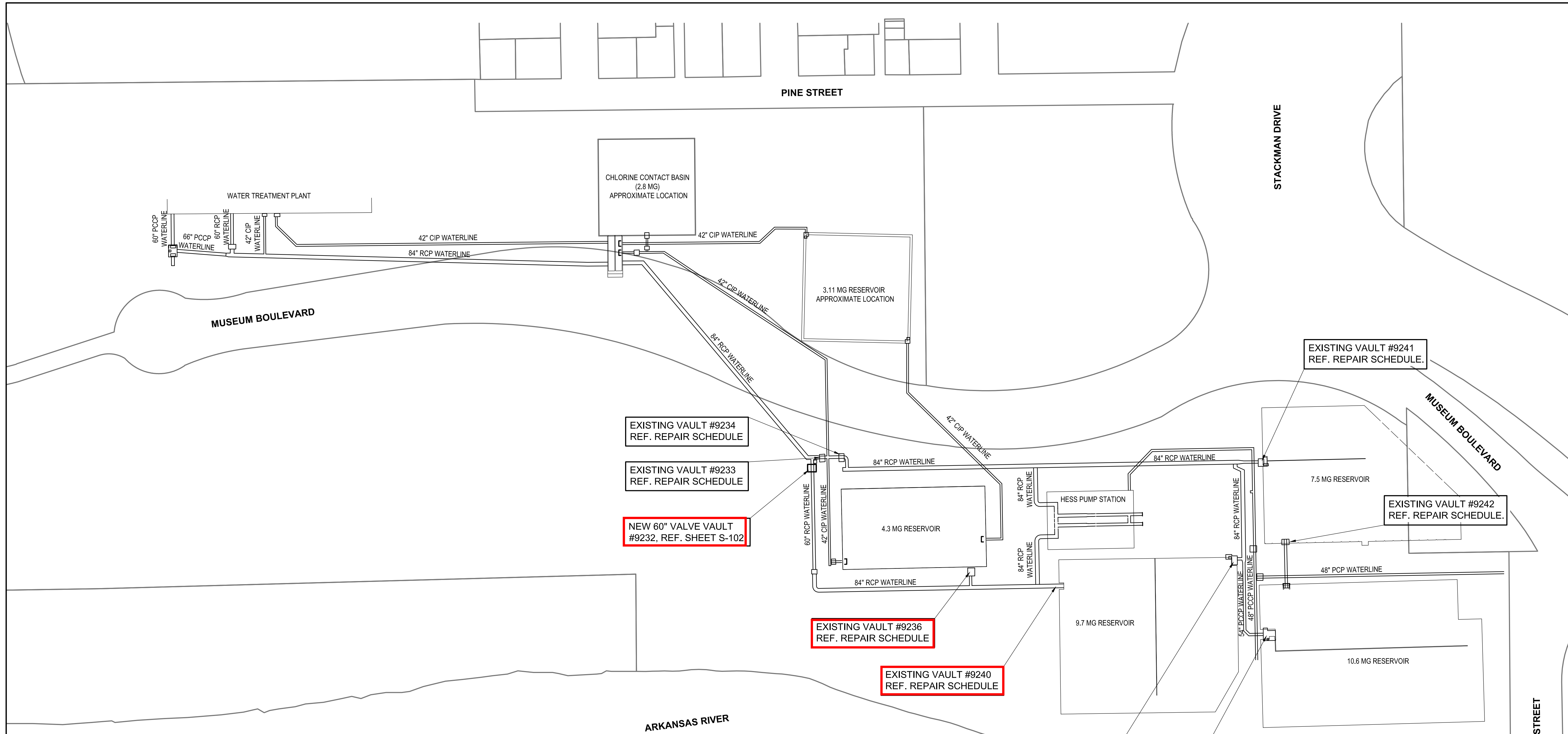
Issue:		

JOB NO.	35-200335-004-0042
DATE	OCTOBER 2024
PM	TBK
DESIGNED BY	DKC
DRAWN BY	DKC
CHECKED BY	KW

STRUCTURAL GENERAL NOTES

S-001

SAVED 10/17/2024 10:56:21 AM BY KURTIS DEKAT
 PLOTTED 11/13/2024 1:18:35 PM BY DAVID CARPENTER
 \\PECT.COM\PECT\WICHITA-CIVIL\2020\200335\004\STRUCT\DRAWINGS\CID\PACKAGE 2\200335-004_S101.DWG



EXISTING VAULT #9234
REF. REPAIR SCHEDULE

EXISTING VAULT #9233
REF. REPAIR SCHEDULE

NEW 60\"/>

EXISTING VAULT #9236
REF. REPAIR SCHEDULE

EXISTING VAULT #9240
REF. REPAIR SCHEDULE

EXISTING VAULT #9239
REF. REPAIR SCHEDULE

EXISTING VAULT #9243
REF. REPAIR SCHEDULE

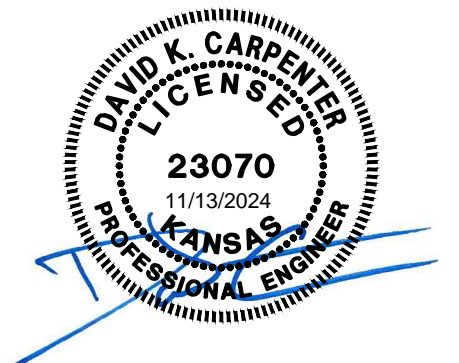
EXISTING VAULT #9241
REF. REPAIR SCHEDULE.

EXISTING VAULT #9242
REF. REPAIR SCHEDULE.

NOTE:
VAULT REPAIR WORK SHALL BE SUBSIDIARY TO THE VALVE VAULT
IMPROVEMENT BID ITEM FOR EACH RESPECTIVE VAULT.

**NOTED WORK ONLY
ON THIS SHEET IS
INCLUDED**

VAULT	VAULT SIZE	HATCH TYPE	CONCRETE REMOVABLE COVER		LADDER		REMARKS	REPAIR
			SIZE	CONDITION	TYPE	CONDITION		
9233	9.5'x14'	ROUND	(2) 4.5'x8.5'	CONCRETE SPALL & EROSION	CAST IRON STEPS	MINOR RUST	Exposed reinforcement at hatch	Replace or patch concrete covers and seal; Remove rust from iron steps and re-coat; Patch concrete at hatch.
9234	9.5'x14.5'	ROUND	(2) 4.5'x8.5'	SEALANT AT JOINTS PARTIALLY MISSING	CAST IRON STEPS	MINOR RUST		Remove rust from iron steps and re-coat; Replace sealant around covers.
9236	12'x13'	ROUND	(2) 5'x5'	LIFTING LUGS NOT VISIBLE	CAST IRON STEPS	MINOR RUST		Remove rust from iron steps and re-coat; Install new lift lugs.
9239	10.5'x16'	ROUND	(2) 5'x9'	NO VISIBLE SEALANT AT JOINTS	ALUMINUM LADDER	GOOD	Concrete spall at corner	Install sealant around concrete covers; Patch concrete at corner.
9240	10.5'x16.5'	ROUND	(2) 5'x9'	NO VISIBLE SEALANT AT JOINTS	ALUMINUM LADDER	GOOD		Install sealant around concrete covers.
9241	10.5'x14'	ROUND	(2) 4'x9'	SEALANT AT JOINTS MOSTLY MISSING	CAST IRON STEPS	MINOR RUST		Remove rust from iron steps and re-coat; Replace sealant around concrete covers.
9242	10'x13.25'	ROUND	(2) 4'x7'	SEALANT AT JOINTS PARTIALLY MISSING	CAST IRON STEPS	MINOR RUST		Remove rust from iron steps and re-coat; Replace sealant around concrete covers.
9243	18'x22'	SQUARE	(2) 5.5'x8.25'	SEALANT AT JOINTS MOSTLY MISSING	ALUMINUM LADDER	GOOD	Spring hatches	Replace sealant around concrete covers.



CONSTRUCTION PLANS

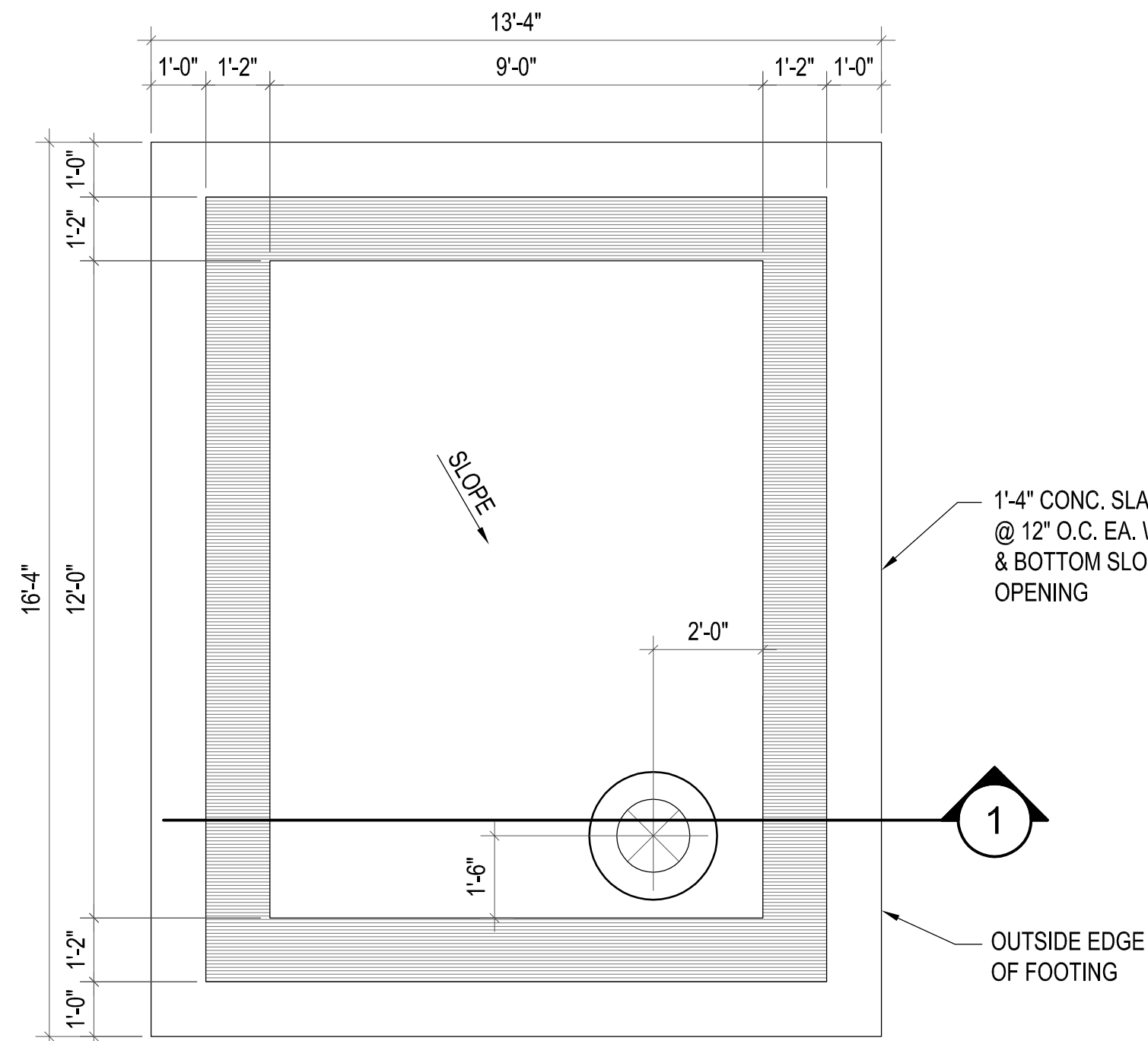
FOR
**HESS PUMP STATION
 SITE VALVE REPLACEMENT
 (PHASES 3-5/D-J)**

PAUL GUNZELMAN, P.E. - CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 448-2021-

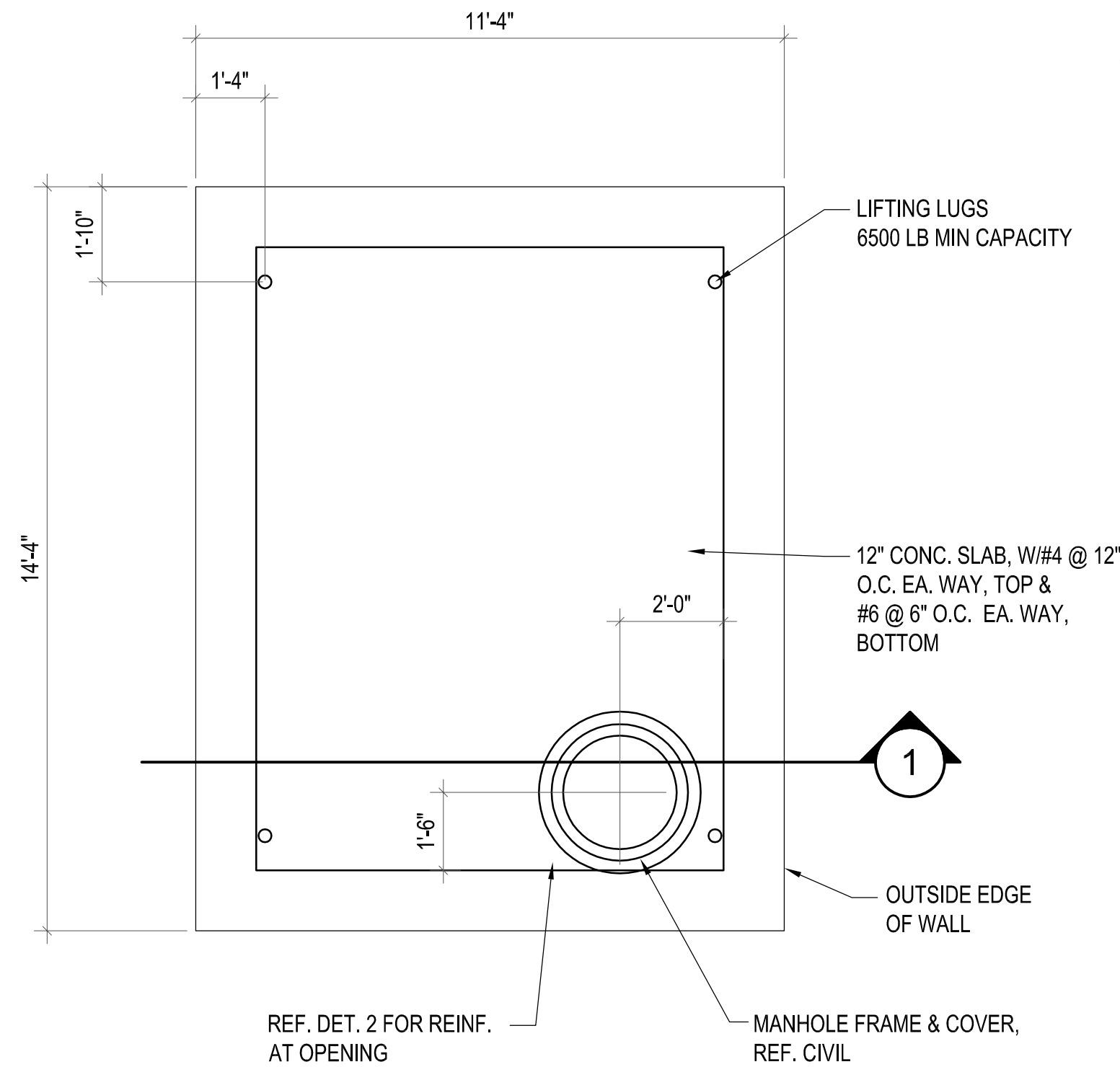
Issue:		
JOB NO.	35-200335-004-0042	
DATE	OCTOBER 2024	
PM	TBK	
DESIGNED BY	DKC	
DRAWN BY	DKC	
CHECKED BY	KW	

STRUCTURAL SITE PLAN

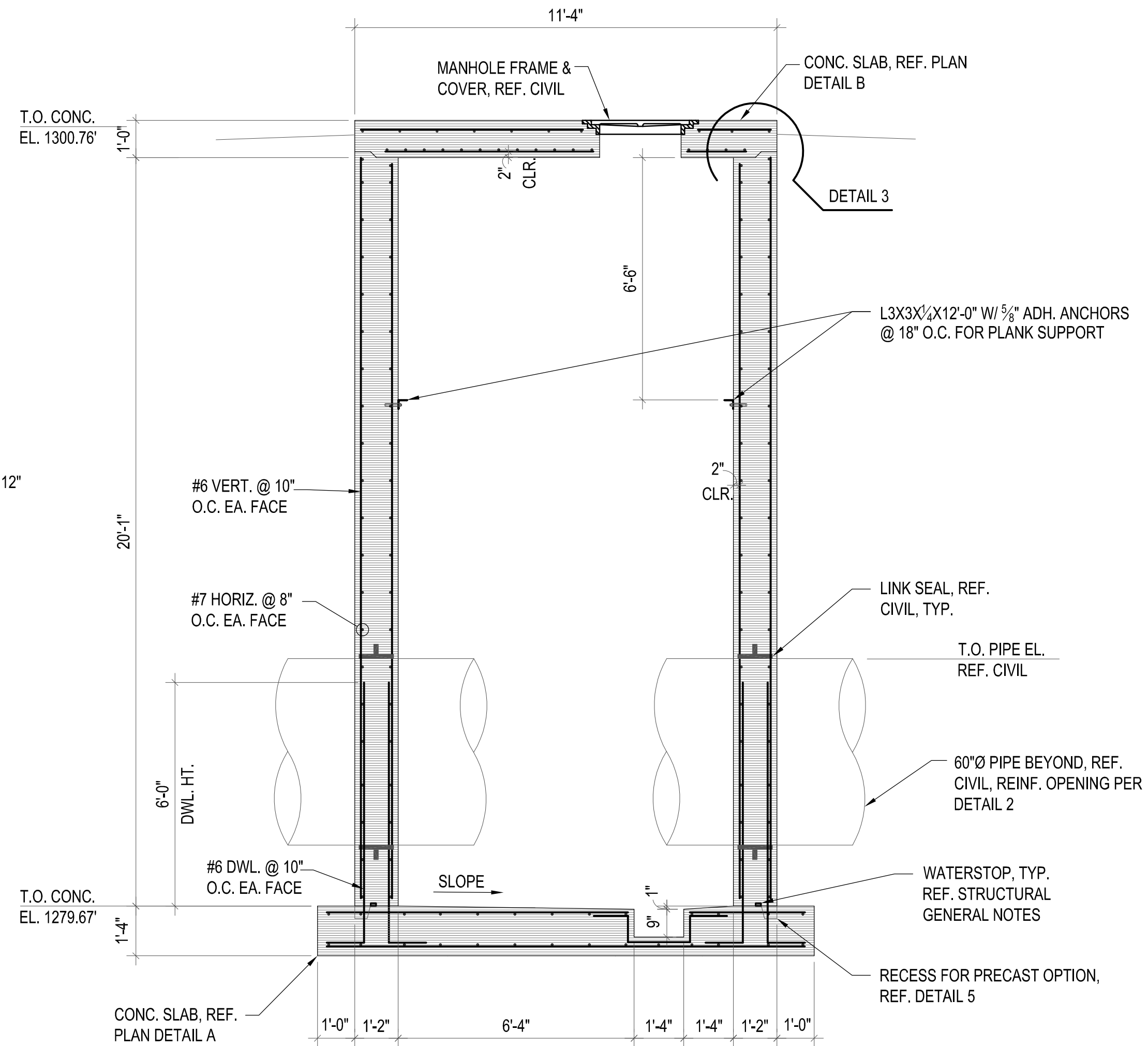
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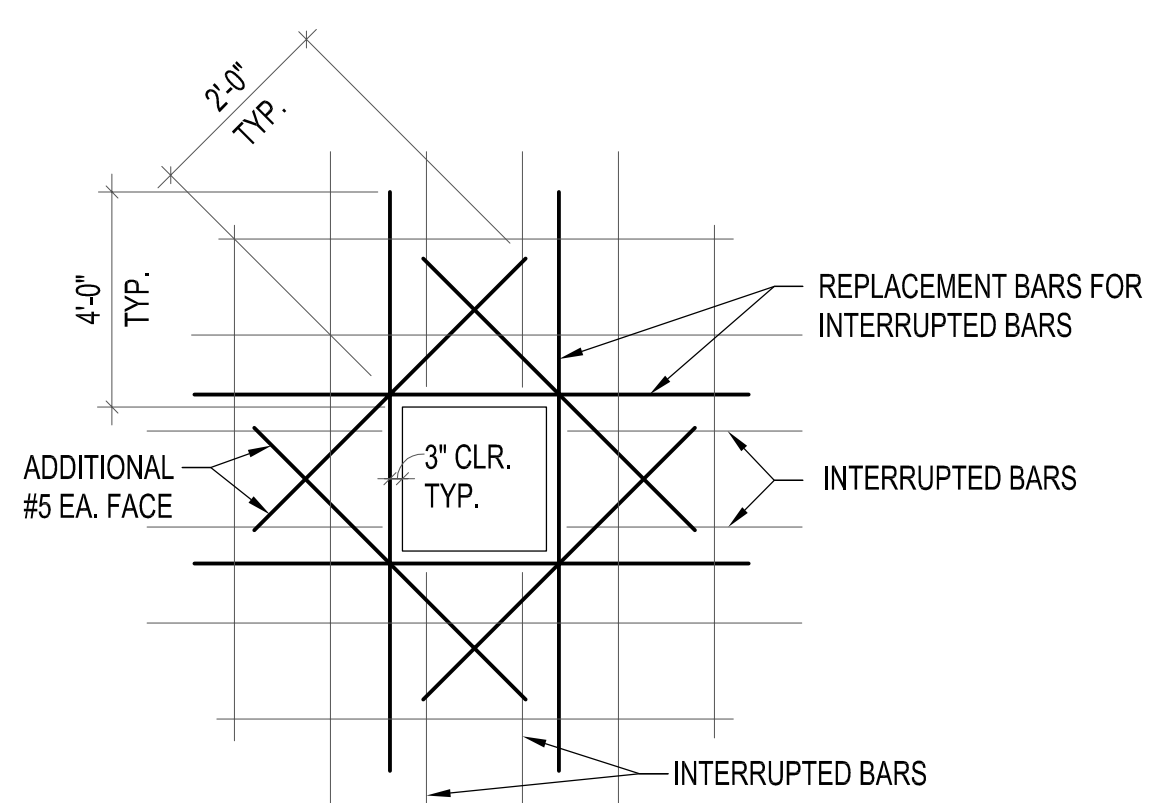
A VAULT FOUNDATION PLAN
3/8"=1'-0"



B VAULT COVER PLAN
3/8"=1'-0"



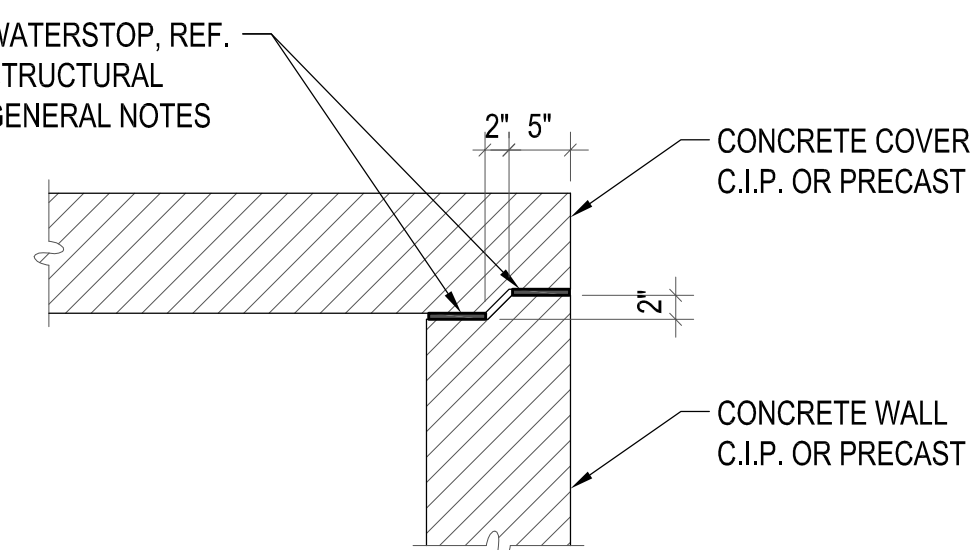
1 VAULT SECTION
3/8"=1'-0"



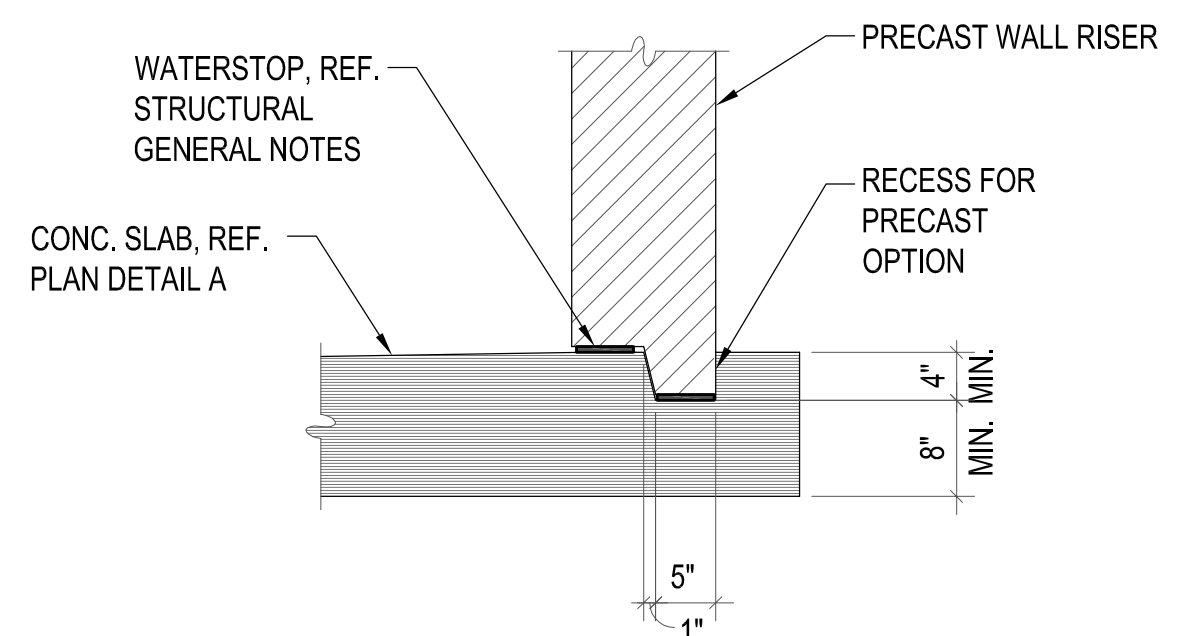
NOTE:

- USE THIS DETAIL FOR ALL OPENINGS IN CONCRETE WALLS AND SLABS GREATER THAN 6", PROVIDE 2-#5 ON DIAGONAL AT EACH CORNER AS SHOWN. EXTEND BARS 2'-0" PAST OPENING. REPLACE ALL VERTICAL AND HORIZONTAL BARS INTERRUPTED BY THE OPENING WITH AN EQUAL NUMBER AND SIZE BARS EVENLY DIVIDED ON EACH SIDE OF THE OPENING UNLESS NOTED OTHERWISE.
- REFER TO PLANS FOR OPENING LOCATIONS.

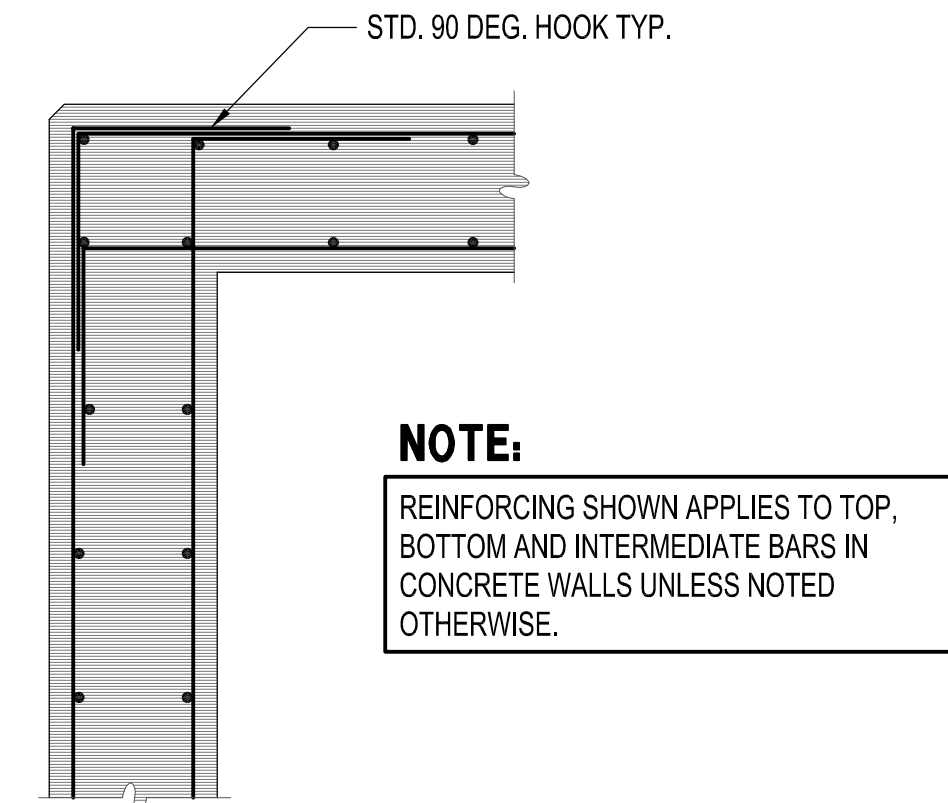
2 WALL/SLAB OPENING REINFORCING
NO SCALE



3 COVER JOINT
3/4"=1'-0"

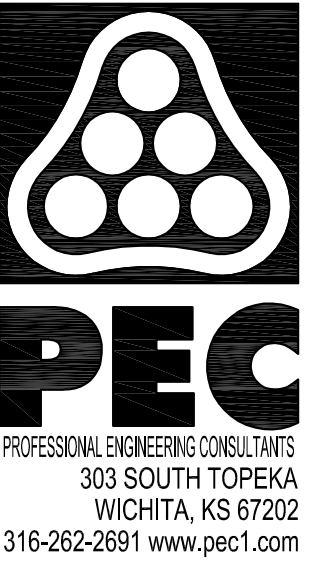


5 PRECAST OPTION AT CONC. SLAB
3/4"=1'-0"



4 CORNER AND INTERSECTION REINF.
NO SCALE

ALL WORK ON THIS SHEET IS INCLUDED



CONSTRUCTION PLANS
 FOR
HESS PUMP STATION
SITE VALVE REPLACEMENT
(PHASES 3-5/D-J)
 PAUL GUNZELMAN, P.E. - CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 448-2021-

Issue:		
JOB NO.	35-200335-004-0042	
DATE	OCTOBER 2024	
PM	TBK	
DESIGNED BY	DKC	
DRAWN BY	DKC	
CHECKED BY	KW	

STRUCTURAL PLANS

SAVED 10/18/2024 1:29:21 PM BY JAXON HARING
 PLOTTED 10/18/2024 1:30:29 PM BY JAXON HARING
 U:\WICHITA-CIVIL\2020\200335\004\TELEC\DRAWINGS\PHASE 3.4 AND 5\E-101 ELECTRICAL SITE PLAN.DWG

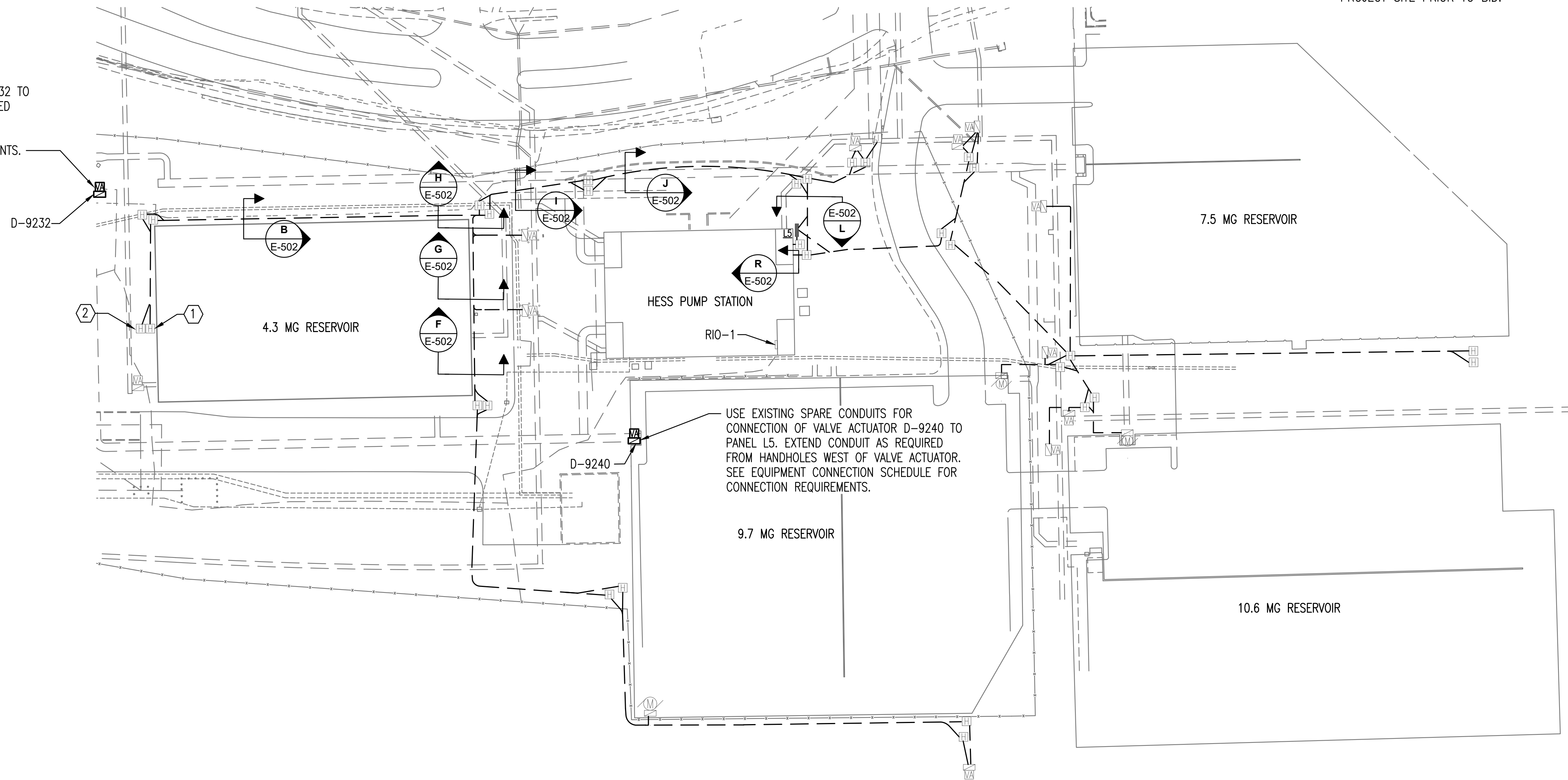
KEY NOTES:

- ① EXISTING POWER HANDHOLE.
- ② EXISTING CONTROLS HANDHOLE.

ELECTRICAL SITE PLAN NOTES:

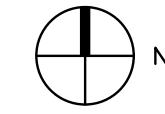
1. UNLESS OTHERWISE NOTED, ALL CONDUIT ROUTED ON SITE SHALL BE 1" MINIMUM.
2. ALL RISERS SHALL BE PVC COATED RIGID GALVANIZED STEEL (RGS) ALL ELLS BELOW GRADE SHALL BE PVC COATED RIGID GALVANIZED STEEL (RGS). PROVIDE WITH PVC TO STEEL ADAPTER(S) AS NECESSARY. (THIS REQUIREMENT SHALL NOT APPLY TO FIXTURE POLE BASES)
3. ALL ELECTRICAL WORK AND FEES ASSOCIATED WITH UTILITIES SHALL BE VERIFIED AND COORDINATED WITH LOCAL SERVICE PROVIDER PRIOR TO BID.
4. CONTRACTOR SHALL REFERENCE ALL RELATED CONTRACT DOCUMENTS, SITE SURVEY, AND OTHER RESOURCES FOR POSSIBLE CONFLICTS WITH OTHER UNDERGROUND UTILITIES. AT UTILITY CROSSINGS, CONTRACTOR SHALL VERIFY UTILITY DEPTHS AND COORDINATE CONDUIT ROUTING AS NECESSARY.
5. CONTRACTOR SHALL VERIFY AND COORDINATE EXISTING CONDITIONS OF PROJECT SITE PRIOR TO BID.

USE EXISTING SPARE CONDUITS FOR CONNECTION OF VALVE ACTUATOR D-9232 TO PANEL L5. EXTEND CONDUIT AS REQUIRED FROM HANDHOLES SOUTHEAST OF VALVE ACTUATOR. SEE EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION REQUIREMENTS.

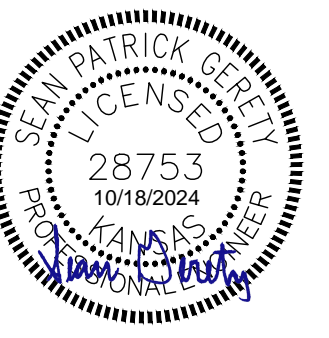


USE EXISTING SPARE CONDUITS FOR CONNECTION OF VALVE ACTUATOR D-9240 TO PANEL L5. EXTEND CONDUIT AS REQUIRED FROM HANDHOLES WEST OF VALVE ACTUATOR. SEE EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION REQUIREMENTS.

A ELECTRICAL SITE PLAN - HESS PUMP STATION
 SCALE: 1"=60'-0" 0' 30' 60' 90' 150'



ALL WORK ON THIS SHEET IS INCLUDED



CONSTRUCTION PLANS

FOR
**HESS PUMP STATION
 SITE VALVE REPLACEMENT
 (PHASES 3-5/D-J)**

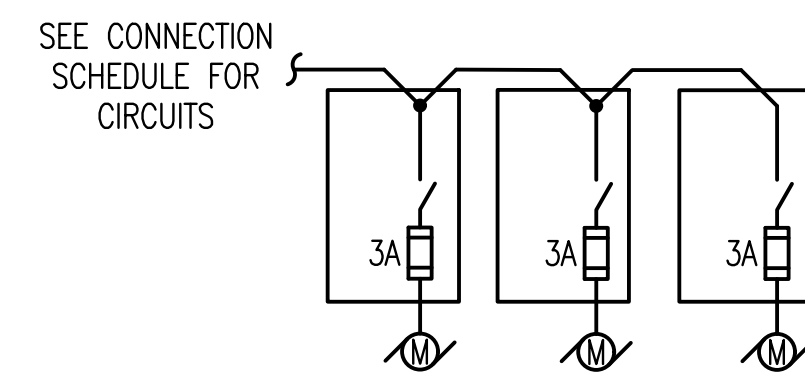
PAUL GUNZELMAN, P.E. - CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 448-2021-

Issue:	
JOB NO.	200335-004
DATE	OCTOBER 2024
PM	TBK
DESIGNED BY	SPG
DRAWN BY	SRM
CHECKED BY	RWW

ELECTRICAL SITE PLAN

E-101

SAVED 10/18/2024 11:27:10 AM BY JAXON HARING
 PLOTTED 10/18/2024 1:30:34 PM BY JAXON HARING
 U:\WICHITA-CIVIL\2020\00335\004\TELEC\DRAWINGS\PHASE 3.4 AND 5\IE-501 ELECTRICAL DETAILS.DWG

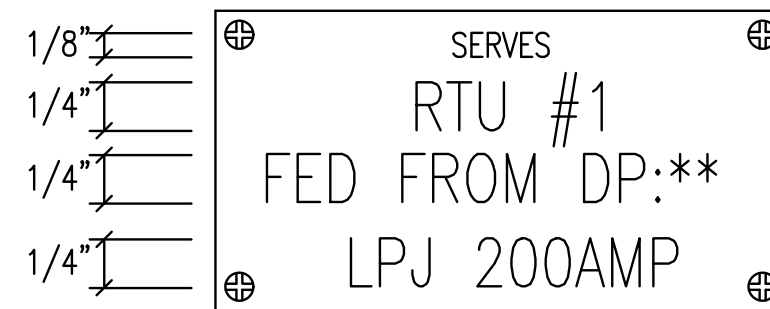


NOTE: MAXIMUM THREE (3) ACTUATORS PER CIRCUIT (SEE CONNECTION SCHEDULE).

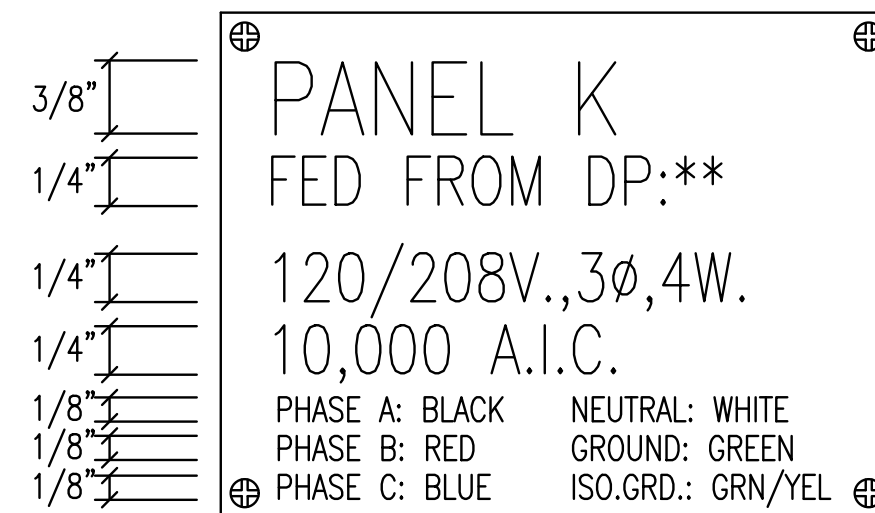
1 TYPICAL VALVE ACTUATOR POWER WIRING
 NO SCALE



SWITCHBOARD/DISTRIBUTION PANEL/MOTOR CONTROL CENTER BREAKER/SWITCH

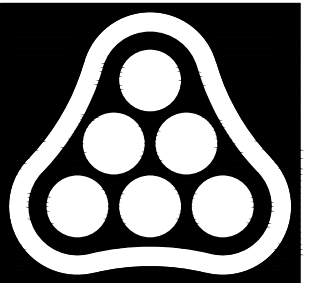


DISCONNECT SWITCH

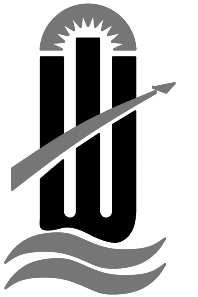


BRANCH CIRCUIT/DISTRIBUTION PANEL

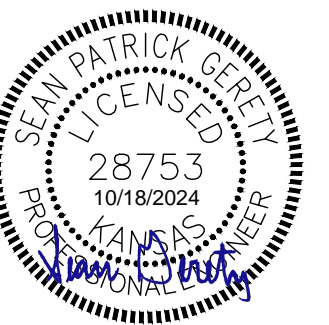
2 TYPICAL NAMEPLATES
 NO SCALE



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CITY OF WICHITA



CONSTRUCTION PLANS

FOR
**Hess Pump Station
 Site Valve Replacement
 (Phases 3-5/D-J)**

PAUL GUNZELMAN, P.E. - CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 448-2021-

Issue:		
JOB NO.	200335-004	
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DRAWN BY	SRM	
CHECKED BY	RWW	

ELECTRICAL DETAILS

E-501

