

FOUR RIVERS SANITATION AUTHORITY

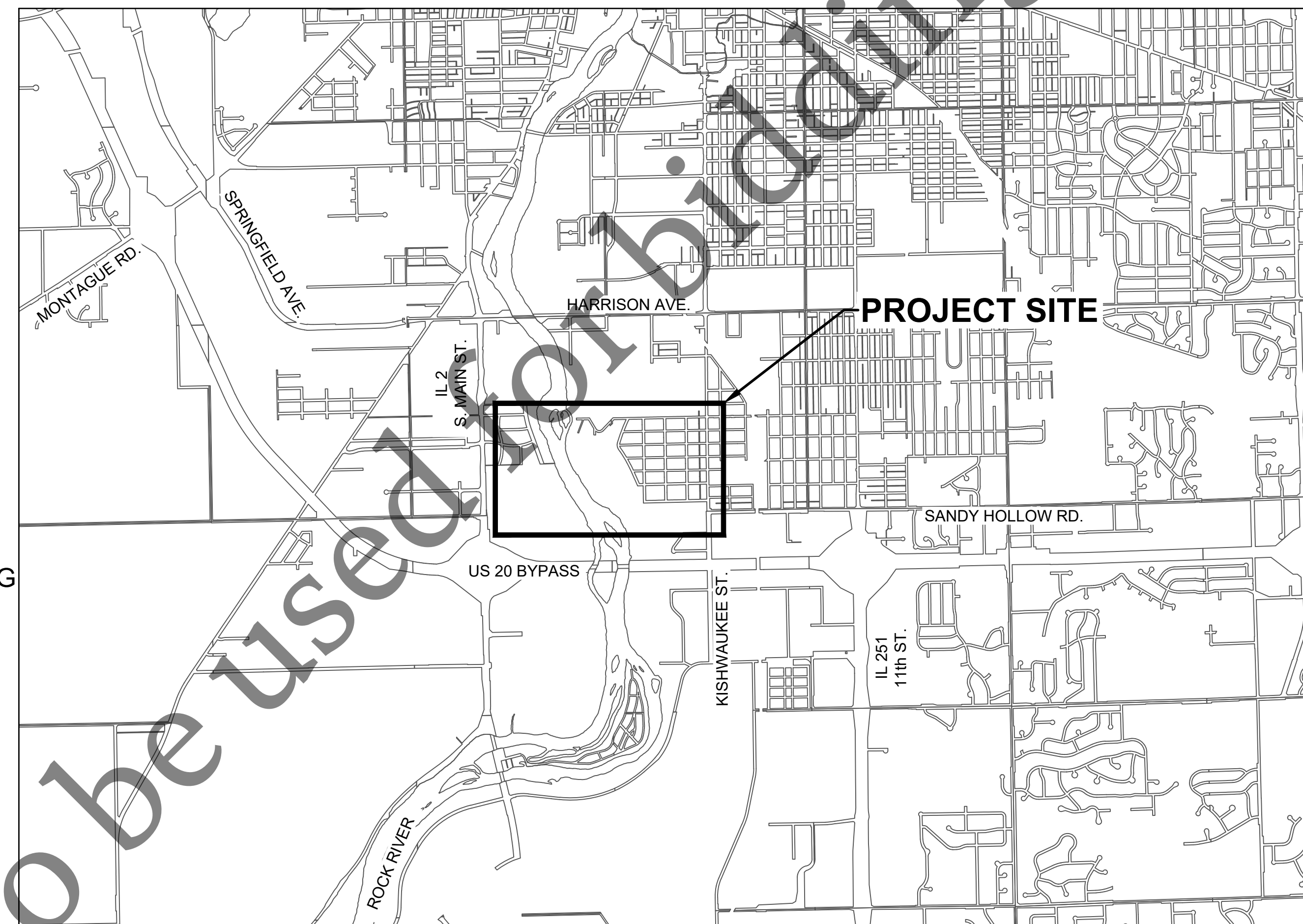
COLLECTION SYSTEMS OPERATIONS FACILITY

PARKING LOT

CAPITAL PROJECT #2217

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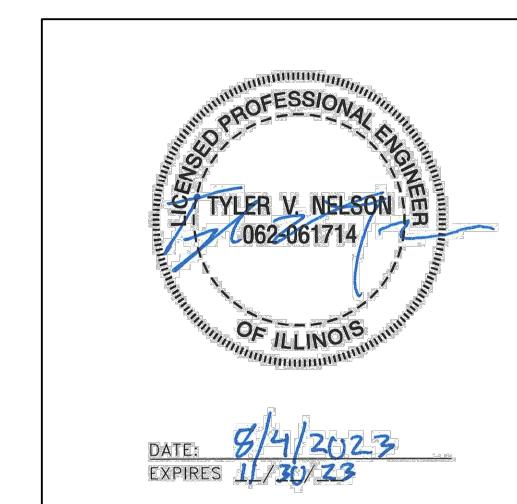
WINNEBAGO COUNTY, ILLINOIS

BOARD OF TRUSTEES

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FOR BID

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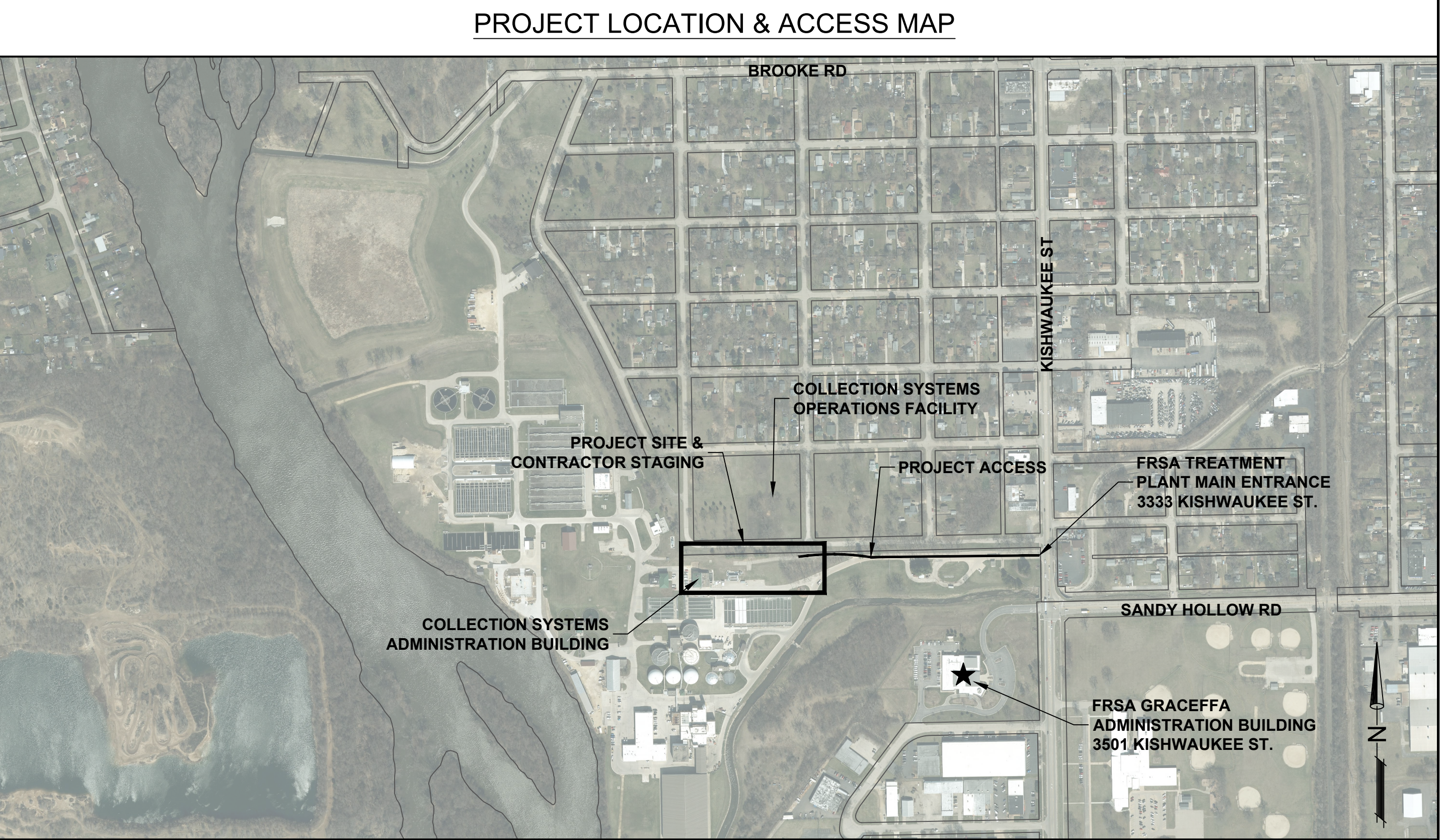
| LEGEND | | |
|----------|----------|---|
| EXISTING | PROPOSED | |
| | | RIGHT OF WAY LINE |
| | | PROPERTY LINE |
| | | BUILDING |
| | | WATER EDGE |
| | | EASEMENT - PERMANENT SANITARY |
| | | EASEMENT - TEMPORARY CONSTRUCTION |
| | | VEGETATION / TREE LINE |
| | | TREE DRIPLINE |
| | | CONTOUR - MAJOR |
| | | CONTOUR - MINOR |
| | | FENCE |
| | | FENCE - TEMPORARY CONSTRUCTION |
| | | FENCE - SILT (PERIMETER EROSION BARRIER) |
| | | ROADWAY CENTERLINE |
| | | EDGE OF PAVEMENT |
| | | CURB & GUTTER |
| | | GUARD RAIL |
| | | RAILROAD TRACKS |
| | | CABLE - OVERHEAD |
| | | CABLE - UNDERGROUND |
| | | ELECTRIC - OVERHEAD |
| | | ELECTRIC - UNDERGROUND |
| | | FIBER OPTIC |
| | | GAS LINE |
| | | TELEPHONE - OVERHEAD |
| | | TELEPHONE - UNDERGROUND |
| | | PEDESTALS (CATV, ELEC, TELE), GAS METER, ELEC METER |
| | | ELECTRIC MANHOLE, HANDHOLE |
| | | SOIL BORING |
| | | BENCHMARK & CONTROL POINT |
| | | MAILBOX |
| | | UTILITY POLE W/ GUY WIRE & MAST ARM LIGHT POLE |
| | | TREE (DECIDUOUS & CONIFEROUS) |
| | | BUSH & SHRUB |
| | | GROUND / LANDSCAPE LIGHT |
| | | SPOT ELEVATION |

| LEGEND | | |
|----------|----------|---|
| EXISTING | PROPOSED | |
| | | SANITARY MANHOLE & SANITARY SEWER |
| | | SANITARY SEWER SERVICE & CLEANOUT |
| | | SANITARY FORCEMAIN |
| | | TREATMENT PLANT PROCESS PIPING |
| | | STORM SEWER |
| | | STORM MANHOLE, CATCH BASIN, CURB & GUTTER INLET, CURB INLET SPECIAL |
| | | DRAINAGE CULVERT, WITH END SECTION |
| | | WATER MAIN |
| | | WATER SERVICE & WATER SERVICE VALVE |
| | | WATER MAIN VALVE |
| | | WATER MAIN VALVE WITH BOX |
| | | WATER MAIN VALVE WITH VAULT |
| | | WATER MAIN REDUCER |
| | | FIRE HYDRANT |
| | | YARD HYDRANT |
| | | WATER WELL |
| | | SPRINKLER HEAD & SPRINKLER VALVE |
| | | EXISTING SURFACE TYPE (HOT-MIX ASPHALT, AGGREGATE, CONCRETE, TURF) |
| | | DITCH CHECK |
| | | INLET OR PIPE PROTECTION |
| | | EROSION CONTROL BLANKET |
| | | HEAVY DUTY EROSION CONTROL BLANKET |
| | | TEMPORARY EROSION CONTROL SEEDING |
| | | SEEDING AREA, CLASS 1 |
| | | SEEDING AREA, CLASS 2, 3, OR 4 |
| | | STABILIZED CONSTRUCTION ENTRANCE |
| | | RIP RAP |
| | | PAVEMENT REPLACEMENT |
| | | DRIVEWAY REPLACEMENT |
| | | AGGREGATE REPLACEMENT |

| ABBREVIATIONS | |
|--|-----------------------------------|
| ABD = ABANDON(ED) | LS = LUMP SUM |
| CMP = CORRUGATED METAL PIPE | MH = MANHOLE |
| CO = CLEAN OUT | PVMNT = PAVEMENT |
| CTRL = CONTROL | PRC = PRECAST REINFORCED CONCRETE |
| CY = CUBIC YARD(S) | PR = PROPOSED |
| DI = DUCTILE IRON | RCP = REINFORCED CONCRETE PIPE |
| EA = EACH | REM = REMOVE(D) |
| EL = ELEVATION | REPL = REPLACE(D) |
| EROS = EROSION | R/R = REMOVE & REPLACE |
| EX = EXISTING | SAN = SANITARY |
| FES = FLARED END SECTION | SVC = SERVICE |
| FM = FORCE MAIN | SY = SQUARE YARD(S) |
| FRSA = FOUR RIVERS SANITATION AUTHORITY | TY = TYPE |
| FT = FEET | UNK = UNKNOWN |
| INV = INVERT | VCP = VITRIFIED CLAY PIPE |
| LF = LINEAR FEET | WM = WATER MAIN |
| LINCIPP = LINED WITH CURED IN PLACE PIPE | |

- ### GENERAL NOTES
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE EXECUTION OF WORK TO THE LINES AND GRADES SHOWN ON THE PLANS. CONSTRUCTION SHALL NOT VARY FROM THE PLANS WITHOUT PRIOR APPROVAL FROM THE FOUR RIVERS SANITATION AUTHORITY (FRSA).
 - THE PROJECT MANAGER ASSIGNED TO THIS PROJECT IS TYLER NELSON, (815-387-7651).
 - FOR UTILITY LOCATES WITHIN PLANT BOUNDARIES, THE CONTRACTOR SHALL CONTACT THE ASSISTANT DIRECTOR OF PLANT OPERATIONS, MICHAEL CHRISTENSEN AT 815-262-5858, 48 HOURS, MINIMUM, PRIOR TO START OF CONSTRUCTION, TO ARRANGE FOR THE LOCATION OF PLANT INFRASTRUCTURE.
 - FOR UTILITY LOCATES OUTSIDE OF PLANT BOUNDARIES, THE CONTRACTOR SHALL IDENTIFY ALL UTILITY LOCATIONS IN THE FIELD BY CONTACTING J.U.L.I.E. AT 811 OR 1-800-892-0123 AND ALL UTILITIES NOT ON THE J.U.L.I.E. NETWORK 48 HOURS, MINIMUM, PRIOR TO START OF CONSTRUCTION.
 - ALL UTILITY OUTAGES SHALL BE COORDINATED WITH THE PROJECT MANAGER AND THE PLANT OPERATIONS MAINTENANCE DIVISION MANAGER. PROVIDE A MINIMUM OF 72 HOURS ADVANCED NOTICE PRIOR TO ANY SERVICE INTERRUPTION. DURING THE ENTIRE PERIOD OF THE CONTRACT, PROVIDE RESTORATION OF ANY UNSCHEDULED SERVICE INTERRUPTION WITHIN 30 MINUTES DURING NORMAL WORKING HOURS, OR WITHIN 2 HOURS OUTSIDE OF NORMAL WORKING HOURS. THE FRSA RESERVES THE RIGHT TO REQUEST ADDITIONAL ADVANCED NOTICE AND/OR COORDINATION MEETINGS FOR MAJOR OUTAGES.
 - PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS AND SHALL IMMEDIATELY NOTIFY THE PROJECT MANAGER OF ANY DISCREPANCIES WITH THE PROJECT PLANS OR SPECIFICATIONS.
 - ALL WORK ON FRSA PLANT GROUNDS MUST BE PERFORMED DURING NORMAL CONTRACTOR WORKING HOURS, FROM 6:00 AM TO 5:00 PM, M-F, EXCLUDING WEEKENDS AND FRSA-OBSERVED HOLIDAYS. THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER 24 HOURS, MINIMUM, PRIOR TO PERFORMING WORK OUTSIDE OF THESE HOURS AND SHALL PROVIDE A LIST OF ALL EMPLOYEES, INCLUDING PRIMARY CONTACT(S), WHO WILL BE PRESENT FOR THE OFF-HOUR WORK.
 - ALL ROADWAY CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, AND THE FOUR RIVERS SANITATION AUTHORITY.
 - THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE ILLINOIS URBAN MANUAL FOR SOIL EROSION AND SEDIMENT CONTROL.

- ### SPECIAL CONSIDERATIONS
- THE CONTRACTOR SHALL PROVIDE TEMPORARY RESTROOM FACILITIES FOR HIS WORKFORCE FOR THE DURATION OF THIS PROJECT.
 - THE CONTRACTOR SHALL BE AWARE OF ALL PROJECT CONSTRUCTION AND SCHEDULING CONSTRAINTS AND COORDINATION EFFORTS THAT WILL BE REQUIRED AS PART OF THIS PROJECT. THE CONTRACTOR'S CONSTRUCTION SCHEDULE SHALL ACCOMMODATE ACCORDINGLY. A FUTURE PROJECT JUST WEST OF THIS PROJECT WILL REQUIRE ACCESS THRU THIS PROJECT.
 - CONSTRUCTION STAGING SHALL BE EXCLUDED FROM THE AREA SOUTH AND WEST OF THE CS ADMIN BUILDING DUE TO ON-GOING CONSTRUCTION ACTIVITIES IN AND AROUND THIS BUILDING, AS WELL AS NORTH OF THE EXISTING FENCE AT THE NORTH PERIMETER OF THIS PROJECT. THE CONTRACTOR SHALL COORDINATE WITH THE FRSA AND OTHER CONTRACTORS ACCORDINGLY.
 - THE CONTRACTOR SHALL ACCESS THE SITE ONLY AS SHOWN ON SHEETS 2 & 3. THE CONTRACTOR SHALL USE THE STABILIZED CONSTRUCTION ENTRANCE AT ALL TIMES WHEN ACCESSING AND LEAVING THE SITE.
 - EROSION CONTROL ITEMS INSTALLED PRIOR TO CONSTRUCTION OF THIS PROJECT ARE PERIMETER EROSION BARRIER, STABILIZED CONSTRUCTION ENTRANCE, AND STRAW WADDLES. THE CONTRACTOR SHALL TAKE OWNERSHIP OF THESE DEVICES AND SHALL MAINTAIN AS NEEDED FOR THE DURATION OF CONSTRUCTION AND REMOVE WHEN CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
 - THE EXISTING CHAIN LINK FENCE WILL BE REMOVED BY FRSA AT THE TWO LOCATIONS (STA 900+38 & 904+84) THAT THIS PROJECT REQUIRES TO CONSTRUCT. SECTIONS OF FENCE WIDE ENOUGH TO CONSTRUCT THIS PROJECT WILL BE REMOVED JUST PRIOR TO CONSTRUCTION TAKING PLACE.
 - THE EXISTING COMED UTILITY POLES AT STA. 900+37 20' RT & STA. 903+38 16' RT WILL BE REMOVED / RELOCATED BY COMED NEAR THE END OF SEPTEMBER 2023. COMED IS SCHEDULED TO BEGIN RELOCATION EFFORTS SEPTEMBER 5, 2023. THE CONTRACTOR SHALL COORDINATE WITH COMED FOR ACCESS TO THE POLES FOR REMOVAL.
 - ALL PAVEMENT, SIDEWALK, FENCE, AND TREE REMOVALS WILL BE REMOVED BY FRSA PRIOR TO STARTING CONSTRUCTION OF THIS PROJECT.
 - THE HOT-MIX ASPHALT PAVEMENT FOR THIS PROJECT CANNOT BE INSTALLED UNTIL THE CONCRETE PAVEMENT INCLUDED IN THE COLLECTION SYSTEMS OPERATIONS FACILITY PROJECT (IMMEDIATELY NORTH OF THIS SITE AND CURRENTLY UNDER CONSTRUCTION) IS INSTALLED. THIS CONCRETE PAVEMENT IS SCHEDULED TO BE COMPLETED BY SEPTEMBER 1, 2023.
 - PLEASE NOTE EXISTING ITEMS THAT HAVE BEEN REMOVED BY OWNER PRIOR TO BIDDING.



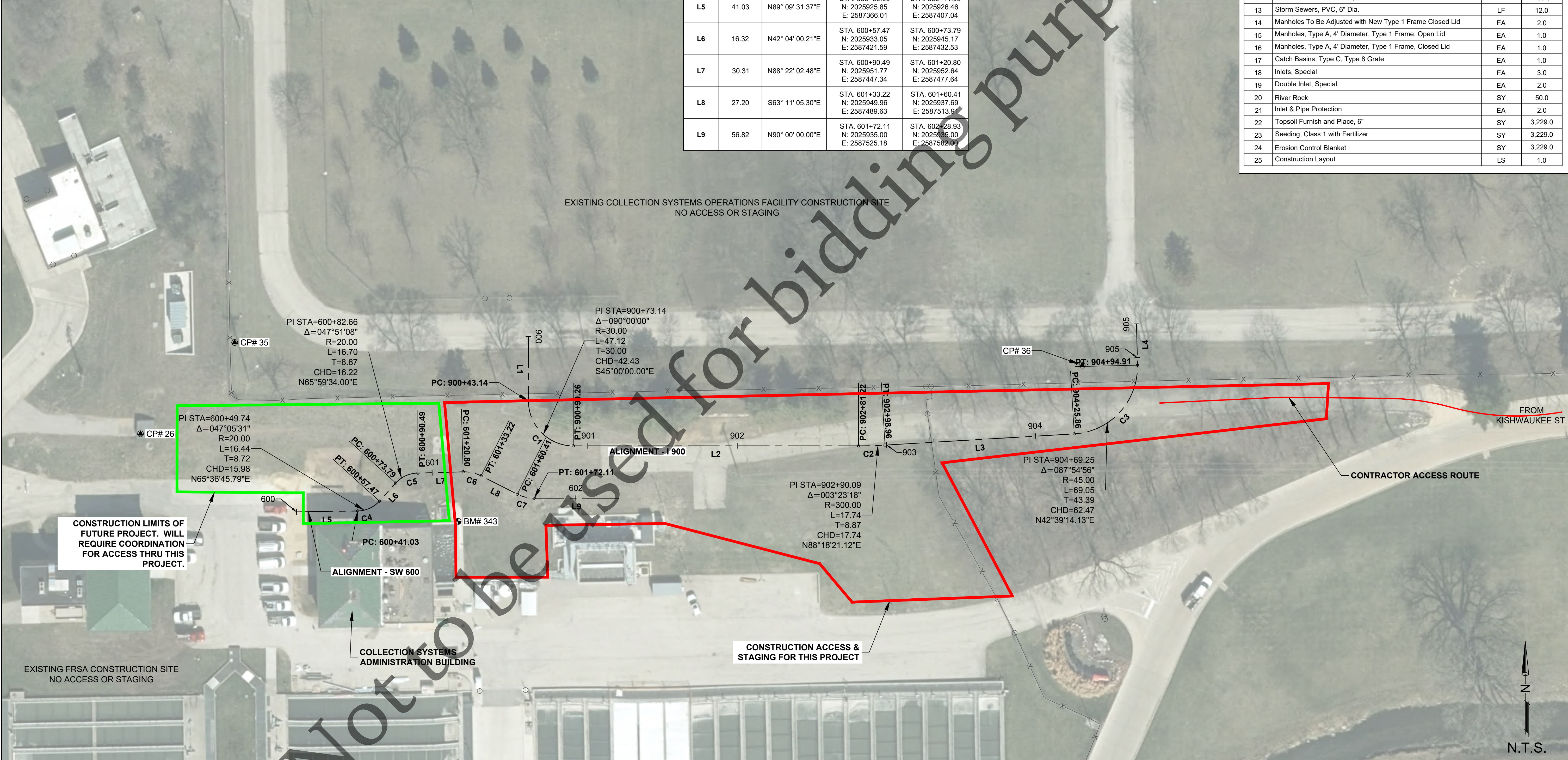
| CONTROL POINT TABLE | | | | |
|---------------------|-----------|------------|------------|-------------|
| CP# | ELEVATION | NORTHING | EASTING | DESCRIPTION |
| 26 | 711.82 | 2025978.06 | 2587261.66 | CP CUT X |
| 28 | 708.35 | 2026092.16 | 2588438.10 | CP DISC 28 |
| 35 | 724.63 | 2026039.12 | 2587324.66 | CP DISC 35 |
| 36 | 720.49 | 2026023.95 | 2587892.04 | CP DISC 36 |

| ALIGNMENT CURVE TABLE | | | | | | |
|-----------------------|---------------|-------------|-------------|--------------|----------------|------------------|
| CURVE # | DELTA | RADIUS (FT) | LENGTH (FT) | TANGENT (FT) | CHORD BEARING | CHORD DIST. (FT) |
| C1 | 190°59'09.35" | 30.00 | 47.12 | 30.00 | S45°00'00.00"E | 42.43 |
| C2 | 019°05'54.94" | 300.00 | 17.74 | 8.87 | N88°18'21.12"E | 17.74 |
| C3 | 127°19'26.24" | 45.00 | 69.05 | 43.39 | N42°39'14.13"E | 62.47 |
| C4 | 286°28'44.03" | 20.00 | 16.44 | 8.72 | N65°36'45.79"E | 15.98 |
| C5 | 286°28'44.03" | 20.00 | 16.70 | 8.87 | N65°59'34.00"E | 16.22 |
| C6 | 229°10'59.22" | 25.00 | 12.41 | 6.34 | S77°24'31.41"E | 12.29 |
| C7 | 229°10'59.22" | 25.00 | 11.70 | 5.96 | S76°35'32.65"E | 11.59 |

| ALIGNMENT LINE TABLE | | | | |
|----------------------|-------------|-------------------|--|--|
| LINE # | LENGTH (FT) | DIRECTION BEARING | START STATION | END STATION |
| L1 | 43.14 | S00° 00' 00.00"E | STA. 900+00.00 N: 2026043.14 E: 2587521.36 | STA. 900+43.14 N: 2026000.00 E: 2587521.36 |
| L2 | 190.96 | N90° 00' 00.00"E | STA. 900+90.26 N: 2025970.00 E: 2587551.36 | STA. 902+81.22 N: 2025970.00 E: 2587742.32 |
| L3 | 126.90 | N86° 36' 42.24"E | STA. 902+98.96 N: 2025970.52 E: 2587760.05 | STA. 904+25.86 N: 2025978.02 E: 2587886.73 |
| L4 | 27.64 | N01° 18' 13.97"W | STA. 904+94.91 N: 2026023.97 E: 2587929.06 | STA. 905+22.55 N: 2026051.60 E: 2587928.43 |
| L5 | 41.03 | N89° 09' 31.37"E | STA. 600+00.00 N: 2025925.85 E: 2587366.01 | STA. 600+41.03 N: 2025926.46 E: 2587407.04 |
| L6 | 16.32 | N42° 04' 00.21"E | STA. 600+57.47 N: 2025933.05 E: 2587421.59 | STA. 600+73.79 N: 2025945.17 E: 2587432.53 |
| L7 | 30.31 | N88° 22' 02.48"E | STA. 600+90.49 N: 2025951.77 E: 2587447.34 | STA. 601+20.80 N: 2025952.64 E: 2587477.64 |
| L8 | 27.20 | S63° 11' 05.30"E | STA. 601+33.22 N: 2025949.96 E: 2587489.63 | STA. 601+60.41 N: 2025937.69 E: 2587513.91 |
| L9 | 56.82 | N90° 00' 00.00"E | STA. 601+72.11 N: 2025935.00 E: 2587525.18 | STA. 602+28.93 N: 2025935.00 E: 2587582.00 |

| SUMMARY OF QUANTITIES | | | | |
|-----------------------|--|------|---------|--|
| Item No. | Item Description | Unit | Qty. | |
| 1 | Earth Excavation & Site Grading | LS | 1.0 | |
| 2 | Removing Manholes | EA | 1.0 | |
| 3 | Aggregate Base Course, Type B, 2" | SY | 182.0 | |
| 4 | Aggregate Base Course, Type B, 12" | SY | 2,294.0 | |
| 5 | Combination Concrete Curb & Gutter, Ty. M6.18 (Modified) | LF | 1,101.0 | |
| 6 | Portland Cement Concrete Sidewalk, 6" | SF | 1,396.0 | |
| 7 | Detectable Warnings | SF | 34.0 | |
| 8 | Hot-Mix Asphalt Binder Course, IL-19.0, N50 | TON | 431.0 | |
| 9 | Hot-Mix Asphalt Surface Course, IL-9.5, Mix "D", N50 | TON | 215.0 | |
| 10 | Thermoplastic Pavement Marking - Line 4" | LF | 354.0 | |
| 11 | Thermoplastic Pavement Marking - Letters & Symbols | SF | 3.0 | |
| 12 | Storm Sewers, Class A, Type 2, 12" Dia. | LF | 458.0 | |
| 13 | Storm Sewers, PVC, 6" Dia. | LF | 12.0 | |
| 14 | Manholes To Be Adjusted with New Type 1 Frame Closed Lid | EA | 2.0 | |
| 15 | Manholes, Type A, 4' Diameter, Type 1 Frame, Open Lid | EA | 1.0 | |
| 16 | Manholes, Type A, 4' Diameter, Type 1 Frame, Closed Lid | EA | 1.0 | |
| 17 | Catch Basins, Type C, Type 8 Grate | EA | 1.0 | |
| 18 | Inlets, Special | EA | 3.0 | |
| 19 | Double Inlet, Special | EA | 2.0 | |
| 20 | River Rock | SY | 50.0 | |
| 21 | Inlet & Pipe Protection | EA | 2.0 | |
| 22 | Topsoil Furnish and Place, 6" | SY | 3,229.0 | |
| 23 | Seeding, Class 1 with Fertilizer | SY | 3,229.0 | |
| 24 | Erosion Control Blanket | SY | 3,229.0 | |
| 25 | Construction Layout | LS | 1.0 | |

| BENCHMARK TABLE | | | | |
|-----------------|-----------|----------|---------|--------------------|
| BM# | ELEVATION | NORTHING | EASTING | DESCRIPTION |
| 343 | 708.98 | 2025920 | 2587474 | BM CHISELED SQUARE |



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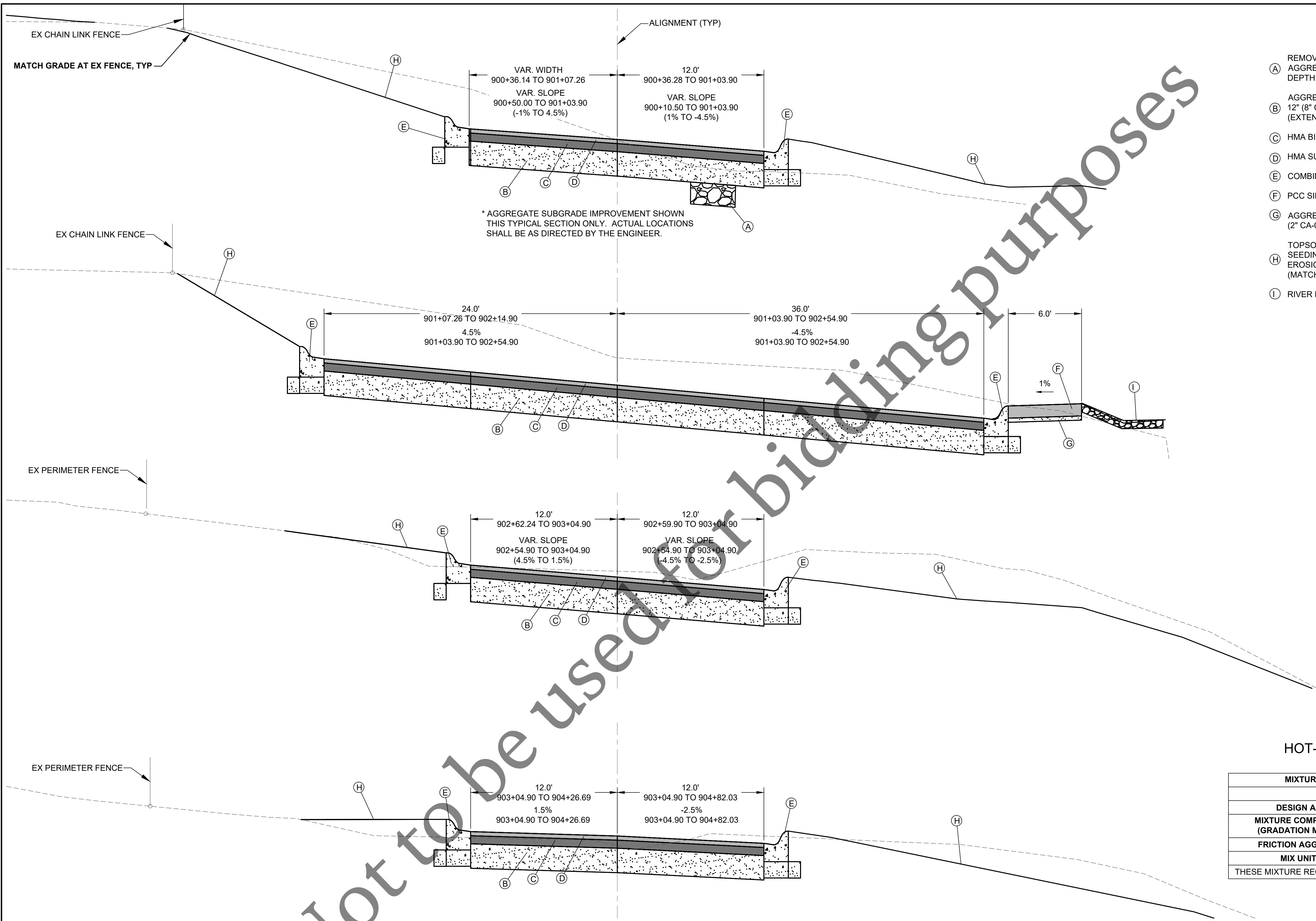
**COLLECTION SYSTEMS OPERATIONS FACILITY PARKING LOT
CAPITAL PROJECT #2217**

ALIGNMENT, TIES & BENCHMARKS & SUMMARY OF QUANTITIES

Sheet No.
3 of 18

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Date:
8/4/2023

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LEGEND

- (A) REMOVAL OF UNSUITABLE MATERIAL AND AGGREGATE SUBGRADE IMPROVEMENT, AT LOCATIONS & DEPTH TO BE DETERMINED BY THE ENGINEER.
- (B) AGGREGATE BASE COURSE, TY. B
12" (8" CA-02, 4" CA-06)
(EXTEND 1.0' BEYOND BACK OF CURB)
- (C) HMA BINDER COURSE, IL-19.0, N50 4"
- (D) HMA SURFACE COURSE, IL-9.5, MIX 'D', N50, 2"
- (E) COMBINATION CONC CURB & GUTTER TY. M6.18 (MOD)
- (F) PCC SIDEWALK (6" THICK)
- (G) AGGREGATE BASE COURSE, TY. B
(2" CA-06)
- (H) TOPSOIL FURNISH & PLACE, 6"
SEEDING CLASS 1 & FERTILIZING
EROSION CONTROL BLANKET
(MATCH EX ELEV AT LOCATION SHOWN ON PLANS)
- (I) RIVER ROCK, 4" (WITH WEED BARRIER FABRIC)

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

| MIXTURE USE(S) | SURFACE COURSE | BINDER COURSE |
|--|----------------|---------------|
| PG: | PG 64-22 | PG 64-22 |
| DESIGN AIR VOIDS | 4.0 @ N50 | 4.0 @ N50 |
| MIXTURE COMPOSITION (GRADATION MIXTURE) | IL 9.5 | IL 19.0 |
| FRICTION AGGREGATE | MIX "D" | N/A |
| MIX UNIT WEIGHT | 112 lbs/sy/in | 112 lbs/sy/in |
| THESE MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT | | |



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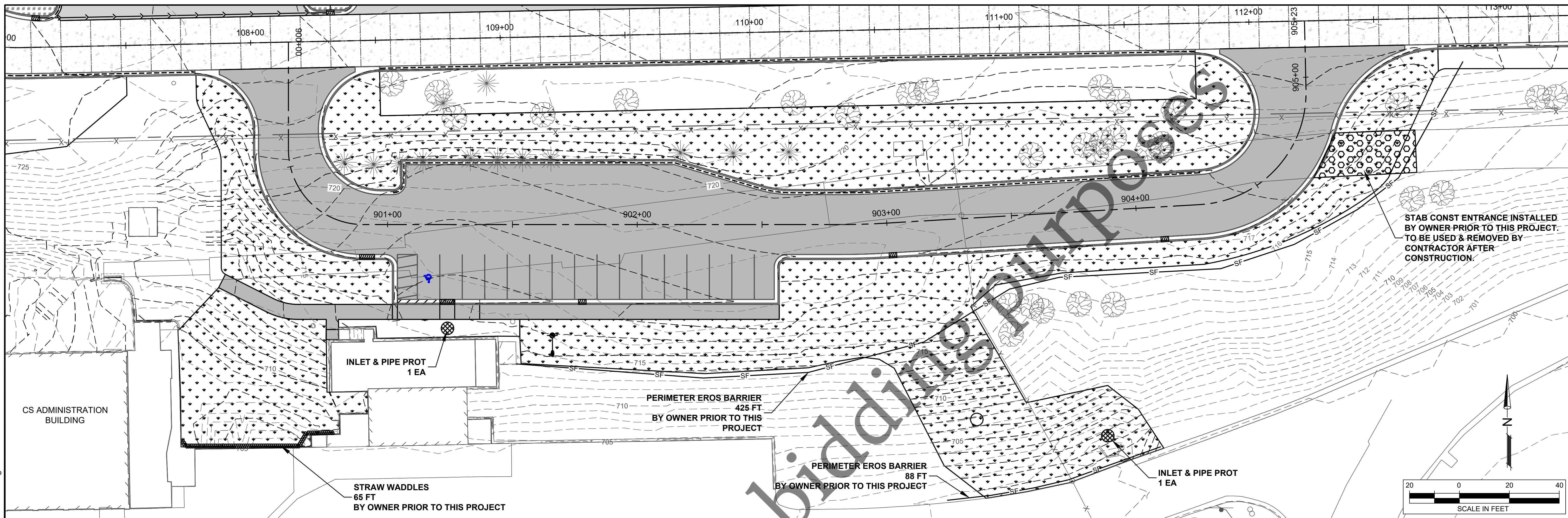
**COLLECTION SYSTEMS OPERATIONS FACILITY PARKING LOT
CAPITAL PROJECT #2217**

TYPICAL SECTIONS

Sheet No.
4 of 18

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EROSION CONTROL NOTES

NOTE:
 1. STABILIZED CONSTRUCTION ENTRANCE, PERIMETER EROSION BARRIER, AND STRAW WADDLES HAVE BEEN INSTALLED BY OWNER. THE CONTRACTOR SHALL MAINTAIN DURING CONSTRUCTION AND REMOVE AFTER CONSTRUCTION. ALL OTHER EROSION CONTROL ITEMS TO BE INSTALLED BY CONTRACTOR.

GENERAL NOTES

THE ESTIMATED AREA OF DISTURBANCE FOR THIS PROJECT IS LESS THAN 1 ACRE. THEREFORE, A NOTICE OF INTENT (NOI) WILL NOT BE FILED. AN EROSION CONTROL PLAN HAS BEEN PREPARED FOR THIS PROJECT. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE ILLINOIS URBAN MANUAL, CURRENT EDITION, IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, THE FOUR RIVERS SANITATION AUTHORITY (FRSA), AND THE PROJECT SPECIFICATIONS AND DETAILS. THE EROSION CONTROL DEVICES, MATERIALS AND PROCEDURES SHOWN IN THESE PLANS ARE TO BE CONSIDERED A MINIMUM. ADDITIONAL DEVICES OR MATERIALS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS, AT THE DIRECTION OF THE ENGINEER. ANY DEVICES, MATERIALS, OR PROCEDURES REQUIRED BY THE ENGINEER DUE TO THE CONTRACTOR'S ACTIONS OR NEGLIGENCE WILL BE AT NO ADDITIONAL COST TO THE FRSA. ALL DISTURBED AREAS SHALL BE SEEDED UNLESS AGRICULTURAL OR OTHERWISE NOTED ON THE PLANS. THE CONTRACTOR IS RESTRICTED TO WORK IN TEMPORARY EASEMENTS OR WORK AREAS DELINEATED ON PLANS. THE CONTRACTOR SHALL TAKE WHATEVER ACTIONS AND MEASURES ARE DEEMED NECESSARY BY THE FRSA OR AUTHORIZED AGENCY TO ELIMINATE EXCESSIVE SILTATION OR EROSION AND TO STABILIZE THE PROJECT AREA. DISCHARGE OF HAZARDOUS SUBSTANCES INTO STORM WATER IS SUBJECT TO IEPA REPORTING AND CLEANUP REQUIREMENTS.

CONTROL MEASURES

EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE BEFORE CONSTRUCTION IN EACH AREA, AS DETERMINED BY THE ENGINEER, AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. CONSTRUCTION ACTIVITIES SHALL ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE PRACTICAL. THE FOLLOWING CONTROLS WILL BE PROVIDED AS A MINIMUM FOR THE DURATION OF THIS PROJECT:

- SEDIMENT CONTROL SHALL BE PROVIDED DOWNSLOPE OF ALL STOCKPILE AREAS.
- STABILIZED CONSTRUCTION ENTRANCES MUST BE INSTALLED AS DETAILED AND WHERE REQUIRED BY THE ROADWAY AUTHORITY OR FRSA.
- INLET PROTECTION MUST BE INSTALLED FOR ALL INLETS THAT COULD BE SUBJECT TO SILTATION, AS DETERMINED BY THE ENGINEER.
- ALL ROADWAYS SHALL BE KEPT CLEAN OF DEBRIS, MUD, SOIL, AND CONSTRUCTION MATERIALS AND SHALL BE INSPECTED AT THE END OF EACH DAY AND CLEANED AS NECESSARY.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN 7 DAYS IF THEY ARE TO REMAIN DISTURBED FOR MORE THAN 14 DAYS.

INSPECTIONS

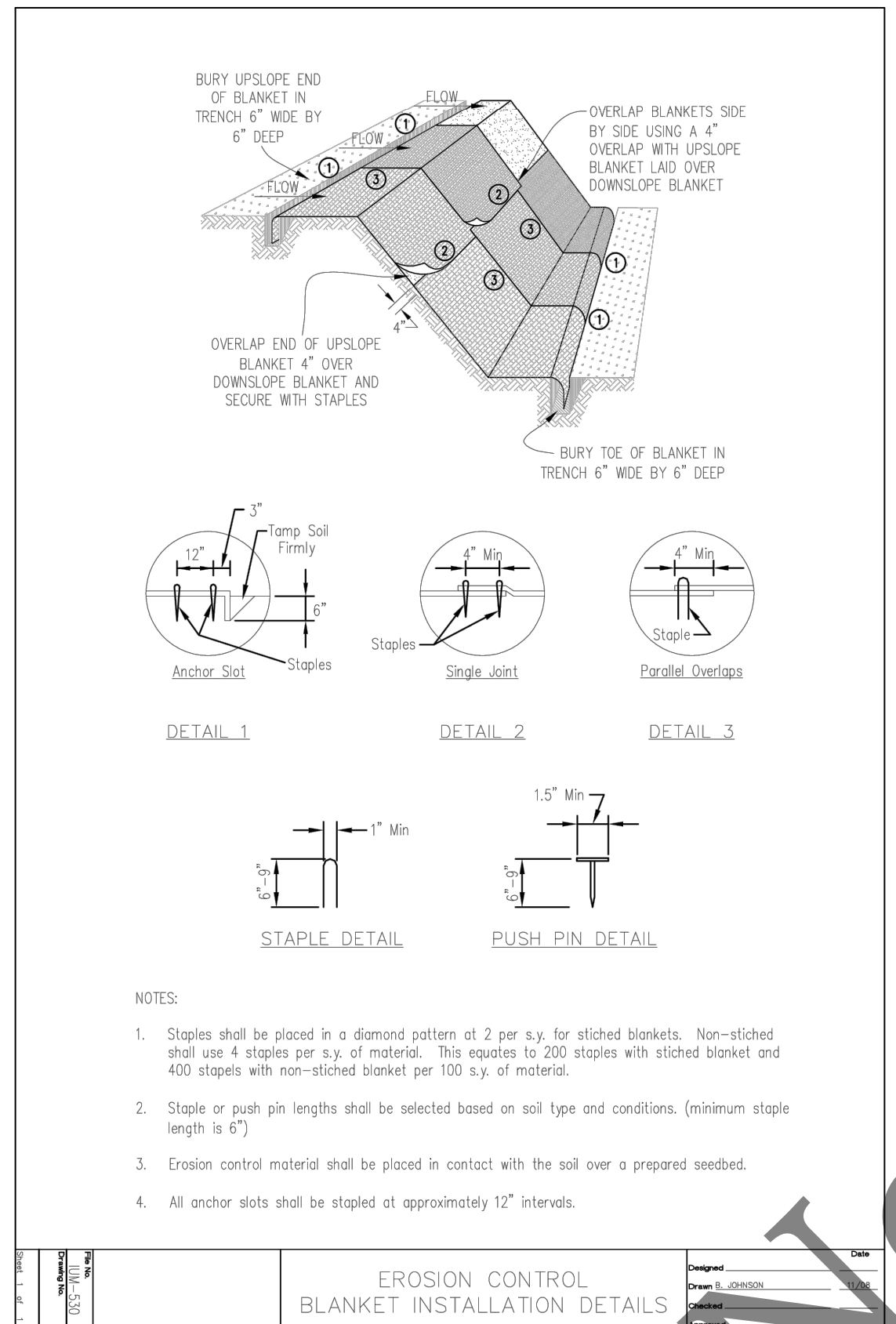
INSPECTIONS MUST BE COMPLETED BY A QUALIFIED PERSON EVERY 7 DAYS AND WITHIN 24 HOURS OF EACH RAIN EVENT WITH OVER 0.5" OF RAIN OR SNOWFALL EQUIVALENT. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REPAIRED AND MODIFIED AS NEEDED TO BE EFFECTIVE AND TO PREVENT EROSION AND POLLUTANTS FROM DISCHARGING FROM SITE. A REPORT SHALL BE COMPLETED WITH EACH INSPECTION, AND SHALL BE KEPT ACCESSIBLE ONSITE WITH THE S.W.P.P.

MAINTENANCE

CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REPAIR OF ALL EROSION AND SEDIMENT CONTROL DEVICES AND PROTECTIVE MEASURES AS REQUIRED TO MAINTAIN THE INTENDED FUNCTION. SEDIMENT COLLECTED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS AS NEEDED. ANY DEBRIS OR SILT DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, DITCHES, ETC., THAT COULD OBSTRUCT FLOW SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL TEMPORARY EROSION CONTROL DEVICES WITHIN 30 DAYS OF FINAL SITE STABILIZATION APPROVAL BY THE FRSA. THE SITE SHALL HAVE A MIN. OF 70% VEGETATIVE COVER TO BE CONSIDERED STABILIZED.

OTHER DISCHARGES

NON STORM WATER DISCHARGES INCLUDING WASHING OF VEHICLES, CONCRETE WASH-OUT, WATER FOR DUST CONTROL, AND TRENCH DEWATERING DISCHARGES SHALL BE DIRECTED AWAY FROM UNPROTECTED, BARE, OR UNSTABILIZED SOIL AND APPROPRIATE MEASURES SHALL BE IMPLEMENTED TO PREVENT EROSION OR RUNOFF FROM THE SITE. DEWATERING DISCHARGE MUST BE INTO SILT CONTAINMENT BAGS WITH PROPERLY ENGINEERED ANIONIC POLYMER AND FABRIC PORE SIZE. UNDER NO CIRCUMSTANCE SHALL DEWATERING DISCHARGE BE ALLOWED TO FLOW DIRECTLY INTO WATERWAYS. A DEWATERING DISCHARGE PLAN SHALL BE SUBMITTED TO THE FRSA FOR APPROVAL.



EROSION CONTROL BLANKET INSTALLATION DETAILS

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**COLLECTION SYSTEMS OPERATIONS FACILITY PARKING LOT
 CAPITAL PROJECT #2217**

TEMPORARY EROSION CONTROL PLAN

Sheet No.
5 of 18



FOR BID Date:
8/4/2023

| EARTHWORK TABLE | |
|----------------------------------|-------------|
| EST. CUT (PR SUBGRADE TO EX) | 2256 CY |
| EST. FILL (PR SUBGRADE TO EX) | 168 CY |
| NET CUT/FILL TO PR SUBGRADE | 2088 CY CUT |
| EST. TOPSOIL ONSITE | 0 |

CS OPERATIONS FACILITY
(UNDER CONSTRUCTION)

THE FIGURES ABOVE ASSUME NO SHRINK/SWELL FACTOR.
DUE TO THE EXISTING SITE CONDITIONS, NO TOPSOIL IS AVAILABLE FOR USE.

THIS PORTION OF FENCE TO BE REM BY
OWNER JUST PRIOR TO CONSTRUCTION
OF THIS PROJECT

THIS PORTION OF FENCE TO BE REM BY
OWNER JUST PRIOR TO CONSTRUCTION
OF THIS PROJECT

TREE REM
BY OWNER PRIOR TO THIS PROJECT

REM MANHOLE
1 EA

FENCE REMOVED FROM THIS POINT NORTH
BY OTHERS PRIOR TO THIS PROJECT.
FENCE FROM THIS POINT SOUTH TO REMAIN.

REM / ABD IN PLACE
85.5 LF
15" VCP @ 15.22%
(BULKHEAD WHERE SEVERED,
COST INCIDENTAL)

CONTRACTOR SHALL REMOVE A
PORTION OF FENCE NECESSARY TO
INSTALL STORM SEWER. FENCE
SHALL BE TEMPORARILY REPLACED
BY CONTRACTOR.

EX COMED UTILITY POLE
SEE NOTE 7 UNDER
SPECIAL CONSIDERATIONS
ON SHEET 2.

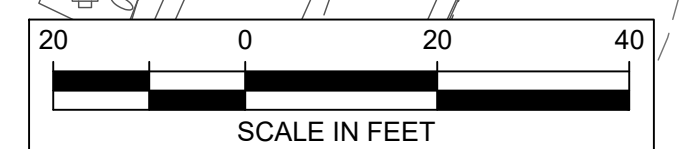
EX LIGHT POLE
FOUNDATION
RELOCATED BY
OWNER PRIOR TO
THIS PROJECT

EX COMED UTILITY POLE
SEE NOTE 7 UNDER
SPECIAL CONSIDERATIONS
ON SHEET 2.

PVMNT REM COMPLETED
BY OWNER PRIOR TO THIS PROJECT

213.9 LF
10" VCP @ 0.80%

174.2 LF
18" VCP @ 1.83%



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| No. | DATE | REVISION | INT. |
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**COLLECTION SYSTEMS OPERATIONS FACILITY PARKING LOT
CAPITAL PROJECT #2217**

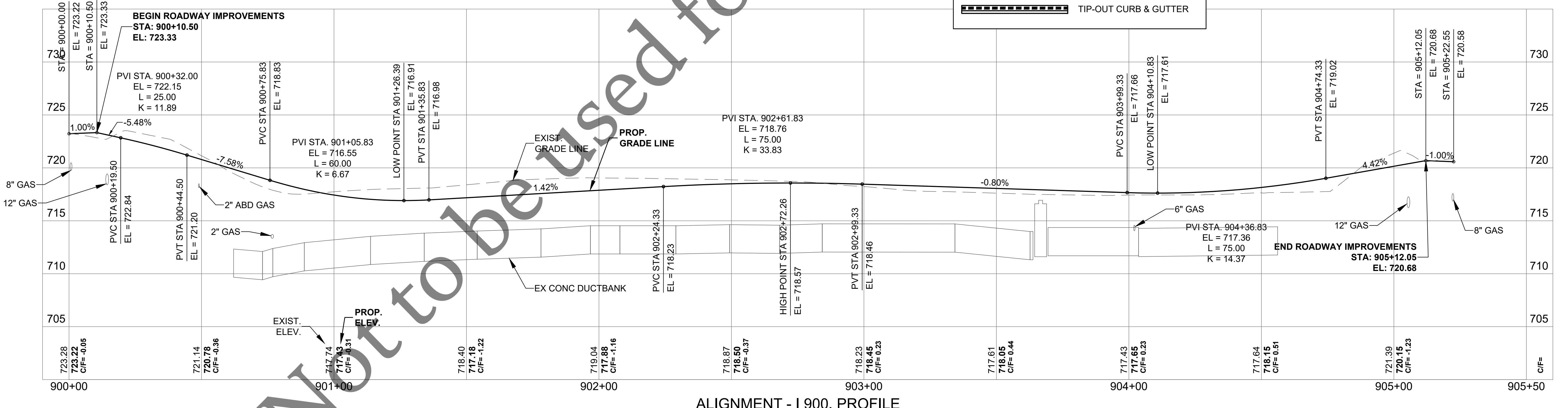
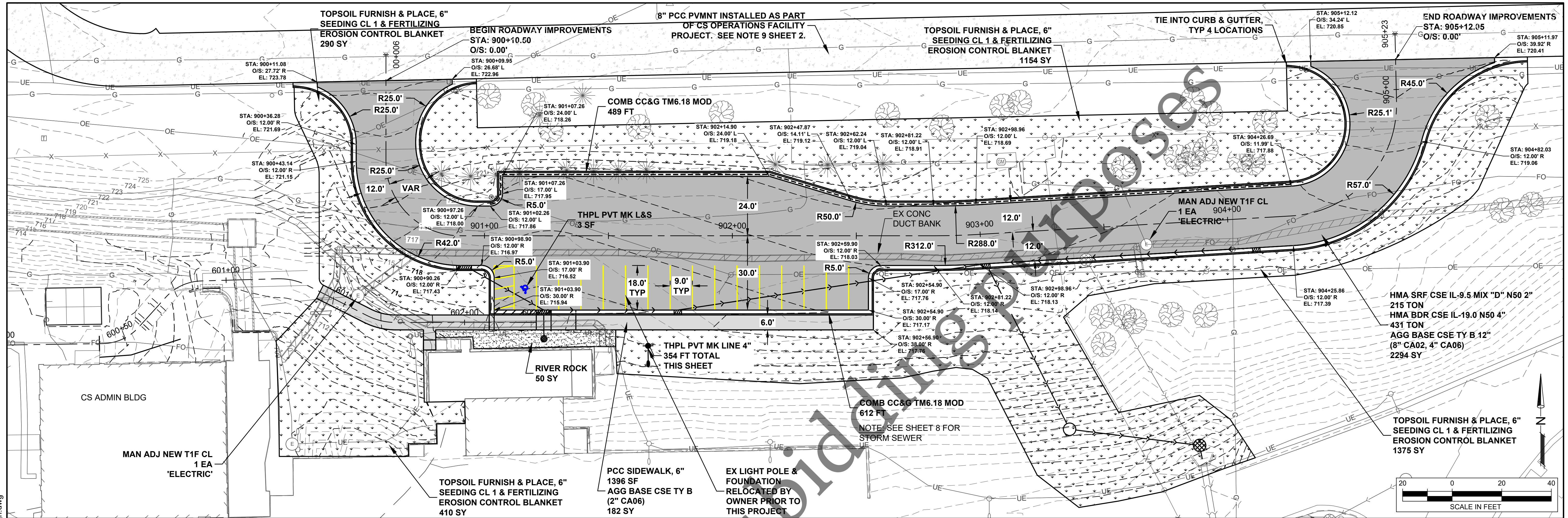
EXISTING CONDITIONS & REMOVALS

Sheet No.
6 of 18

FOR BID

Date:
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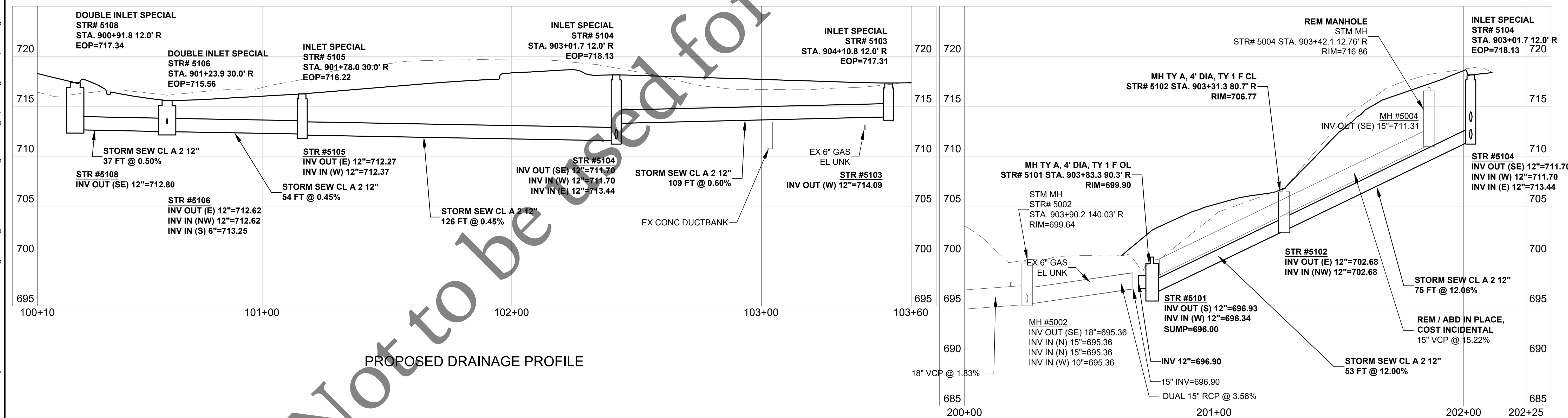
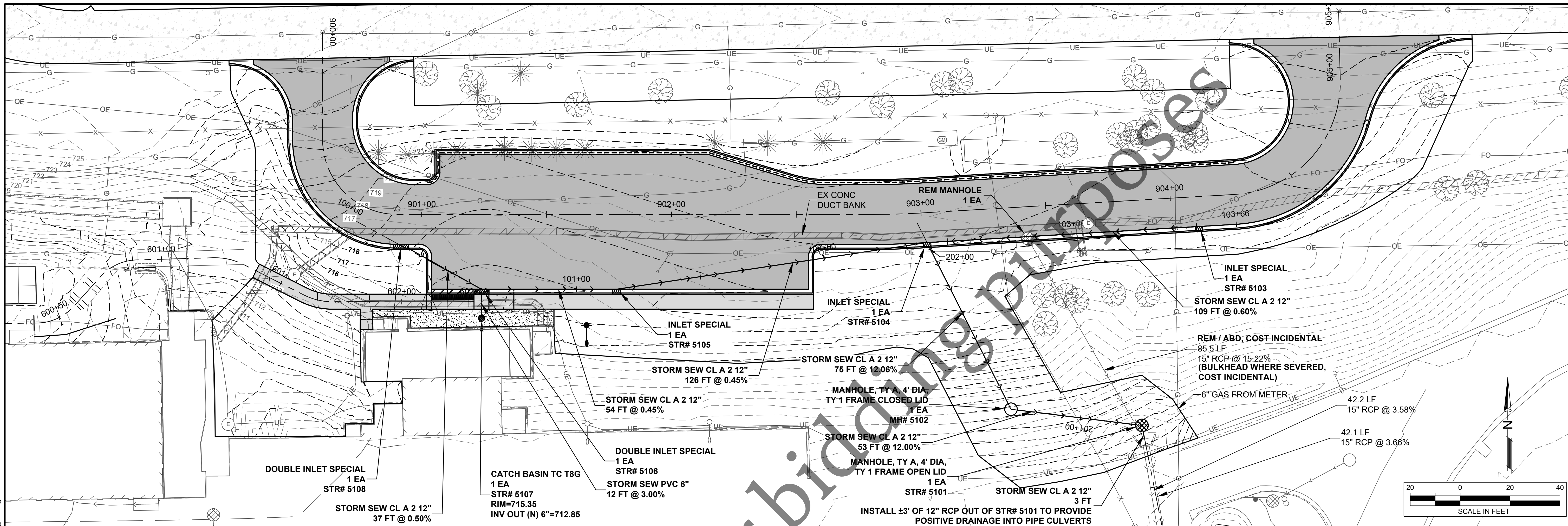
COLLECTION SYSTEMS OPERATIONS FACILITY PARKING LOT
CAPITAL PROJECT #2217

PLAN & PROFILE

Sheet No. 7 of 18

FOR BID Date: 8/4/2023

file: I:\District Projects\Collection Systems Administration Building Parking Lot 2217\01 Design\Drawings (Working Folder)\Parking Lot-Design.dwg



PROPOSED DRAINAGE PROFILE

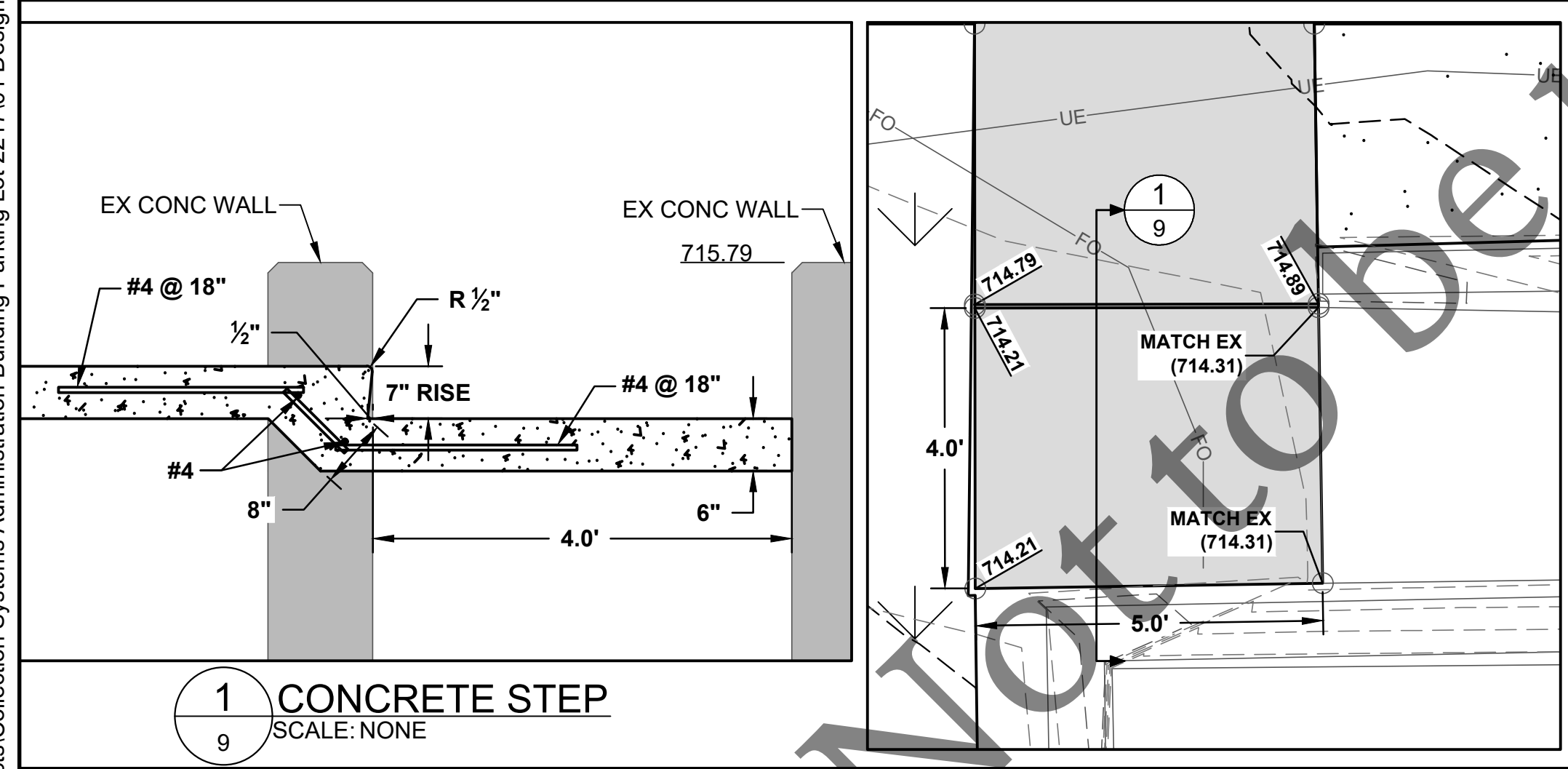
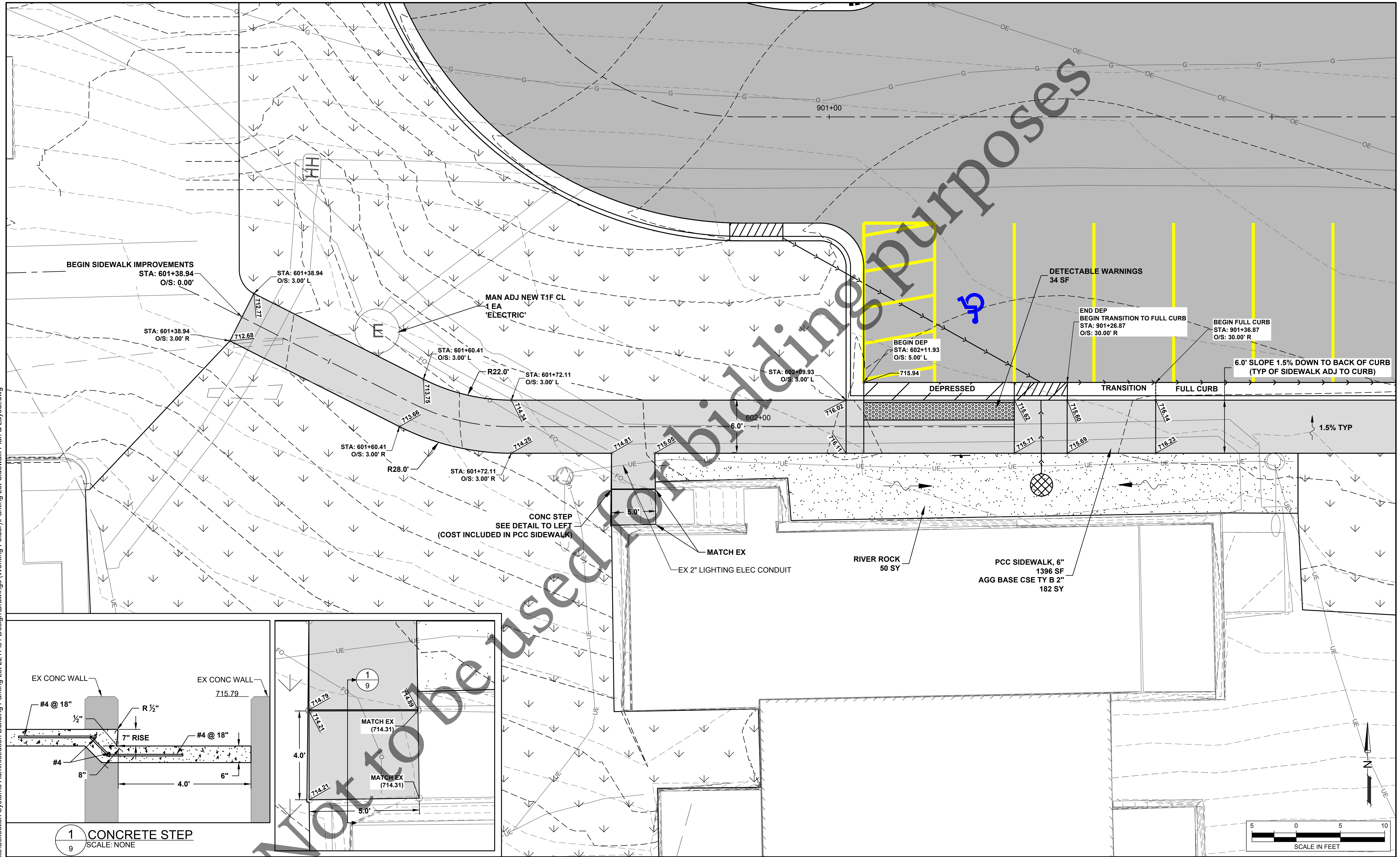


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**COLLECTION SYSTEMS OPERATIONS FACILITY PARKING LOT
CAPITAL PROJECT #2217**

DRAINAGE PLAN & PROFILES

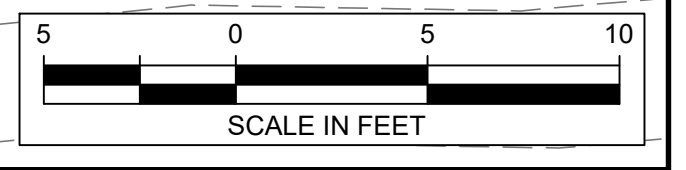
file: I:\District Projects\Collection Systems Administration Building Parking Lot 2217\01 Design\Drawings (Working Folder)\Parking Lot-Sidewalk Plan & Layout.dwg



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**COLLECTION SYSTEMS OPERATIONS FACILITY PARKING LOT
CAPITAL PROJECT #2217**

SIDEWALK PLAN & ELEVATIONS

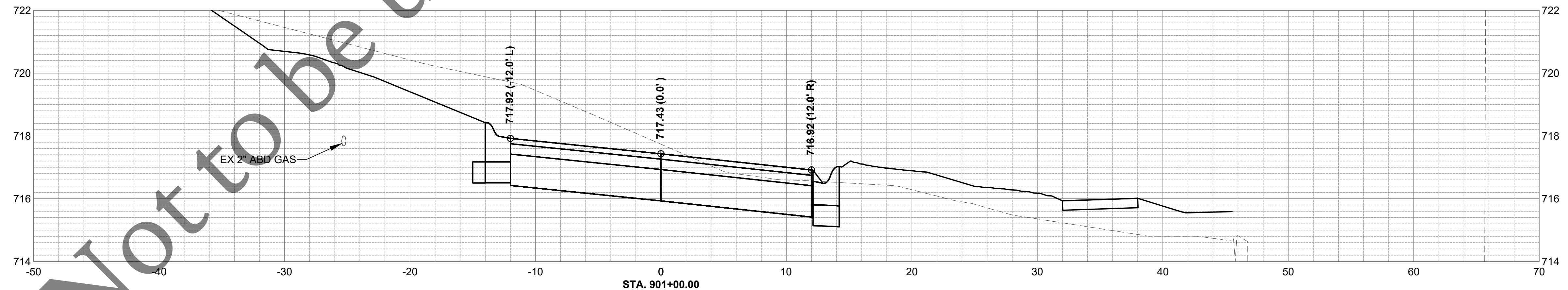
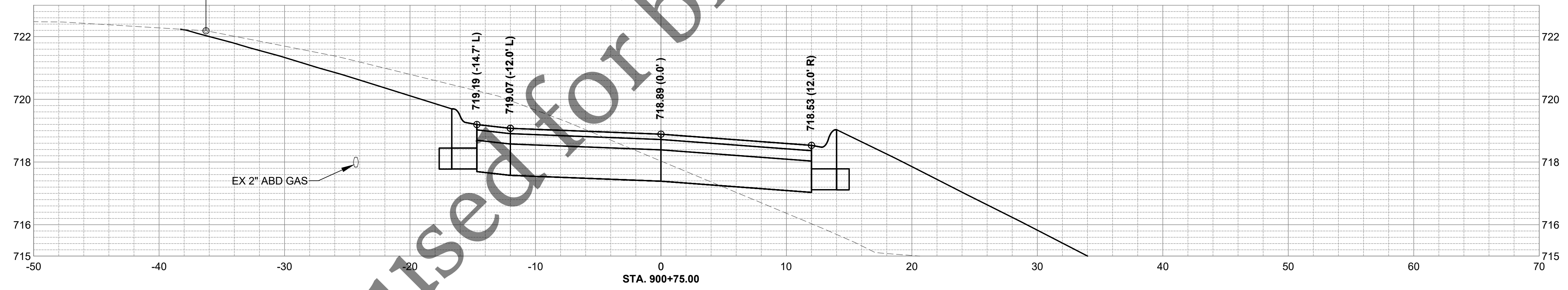
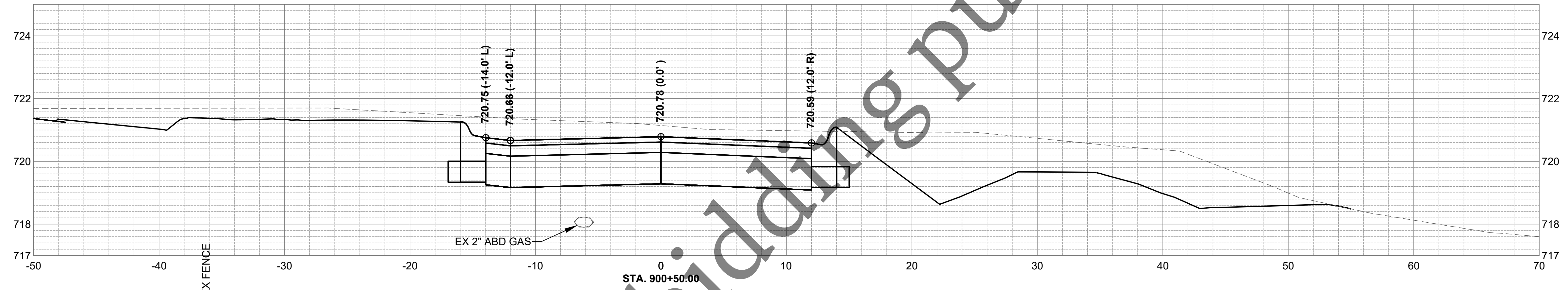
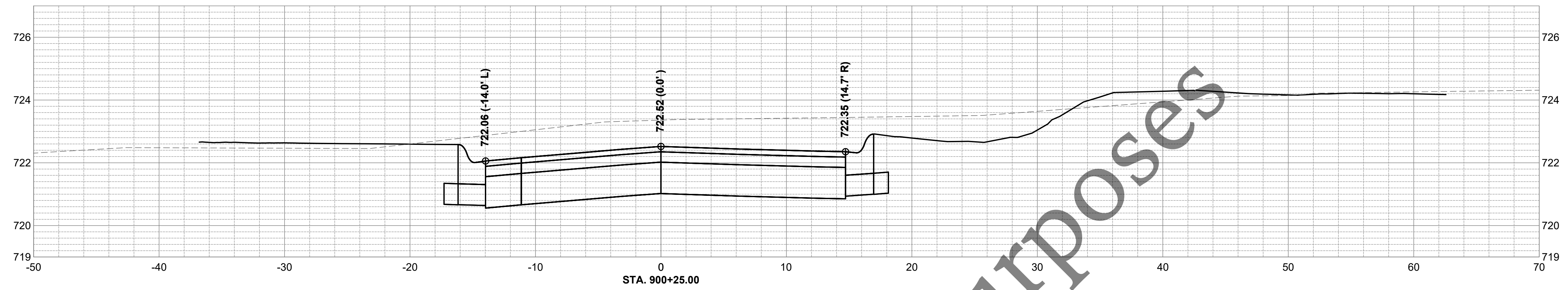


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Date:
8/4/2023

FOR BID

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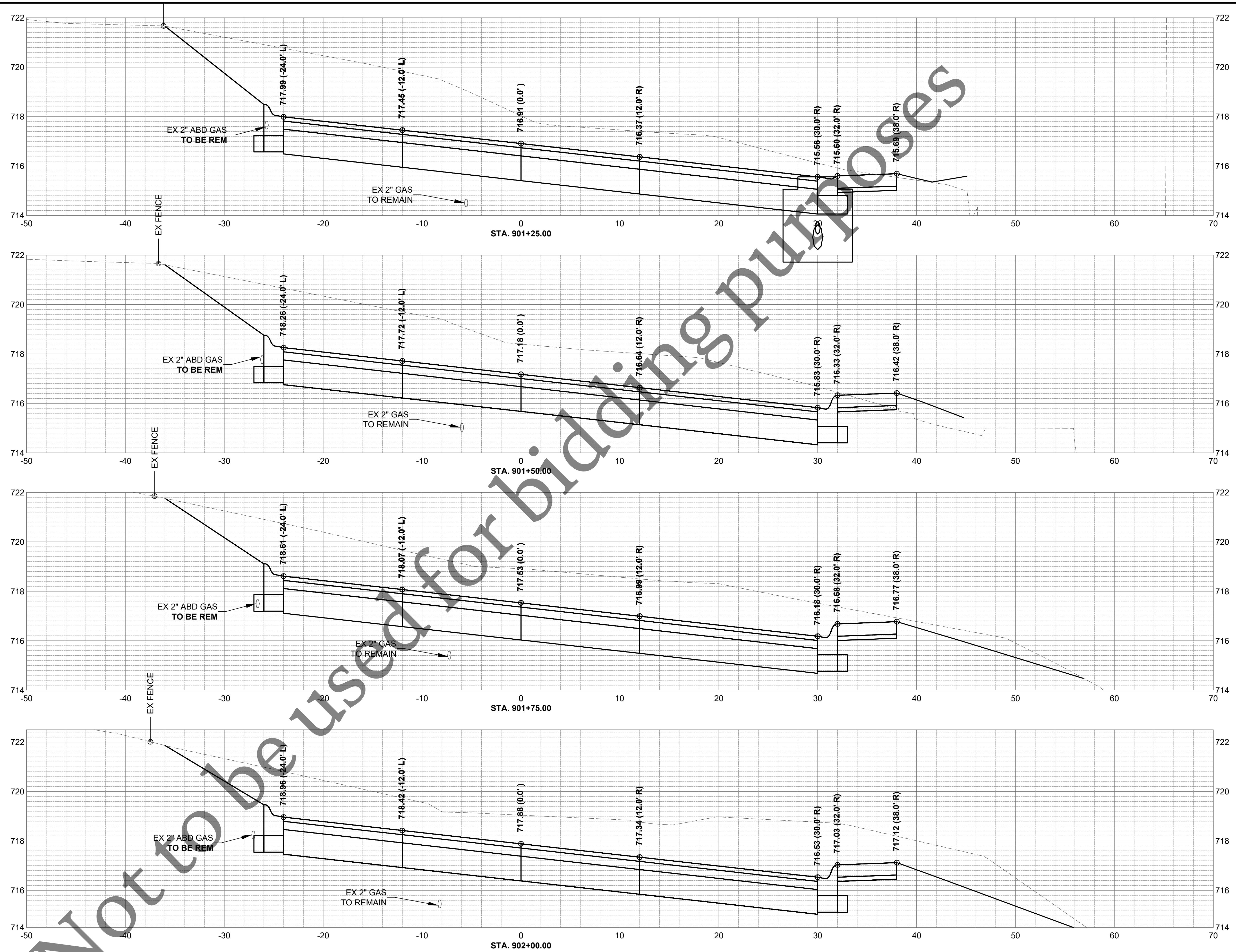
CONC DUCT BANK IS BELOW THE EXTENT OF SECTION VIEWS AND THEREFORE IS NOT SHOWN. TYP. ALL SECTION VIEWS.

| No. | DATE | REVISION | INT. |
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**COLLECTION SYSTEMS OPERATIONS FACILITY PARKING LOT
CAPITAL PROJECT #2217**

CROSS SECTIONS 1

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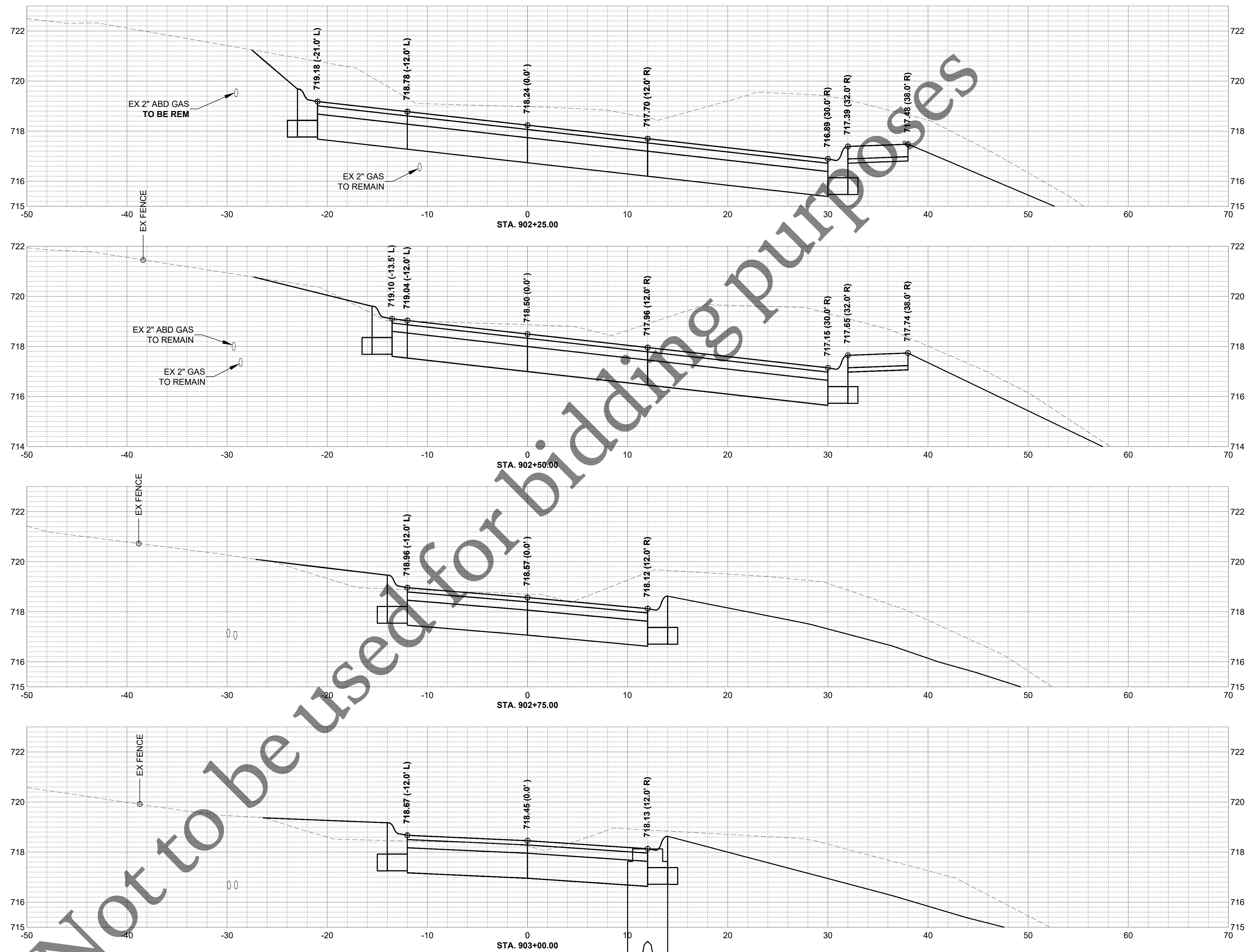
**COLLECTION SYSTEMS OPERATIONS FACILITY PARKING LOT
CAPITAL PROJECT #2217**

CROSS SECTIONS 2

Sheet No.
11 of 18

FOR BID
Date:
8/4/2023

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**COLLECTION SYSTEMS OPERATIONS FACILITY PARKING LOT
CAPITAL PROJECT #2217**

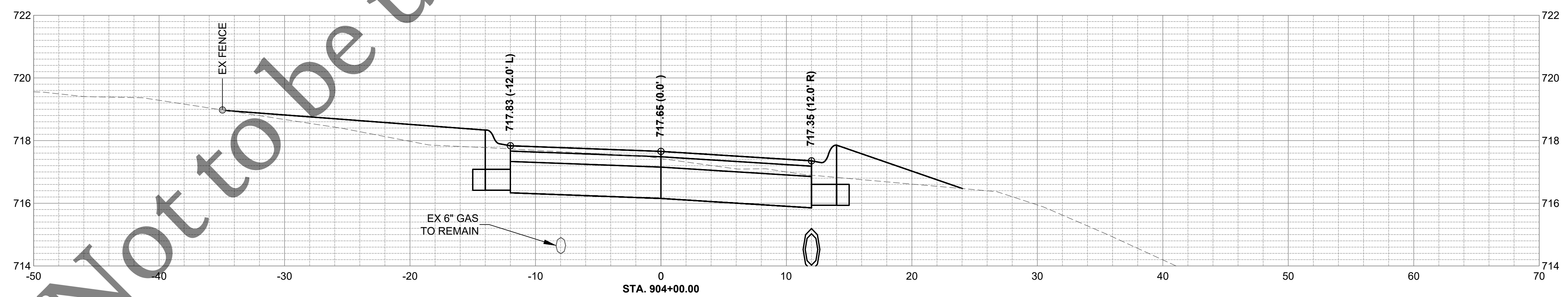
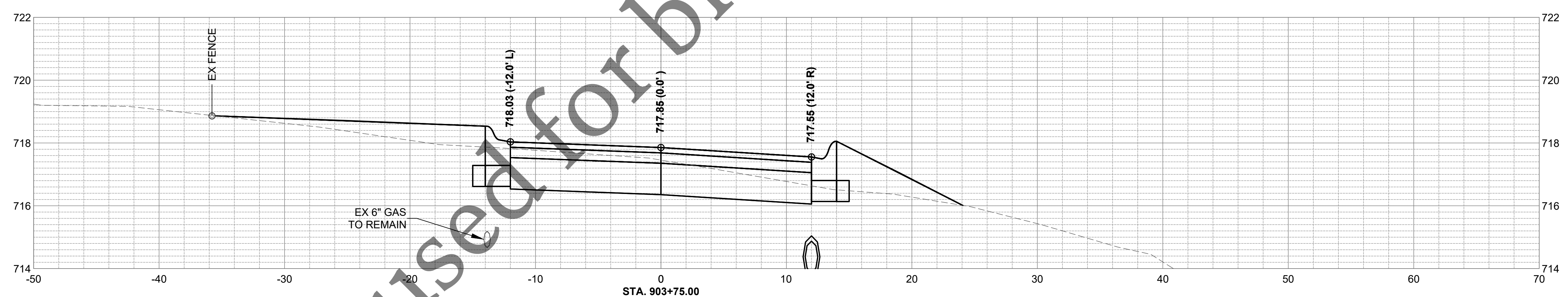
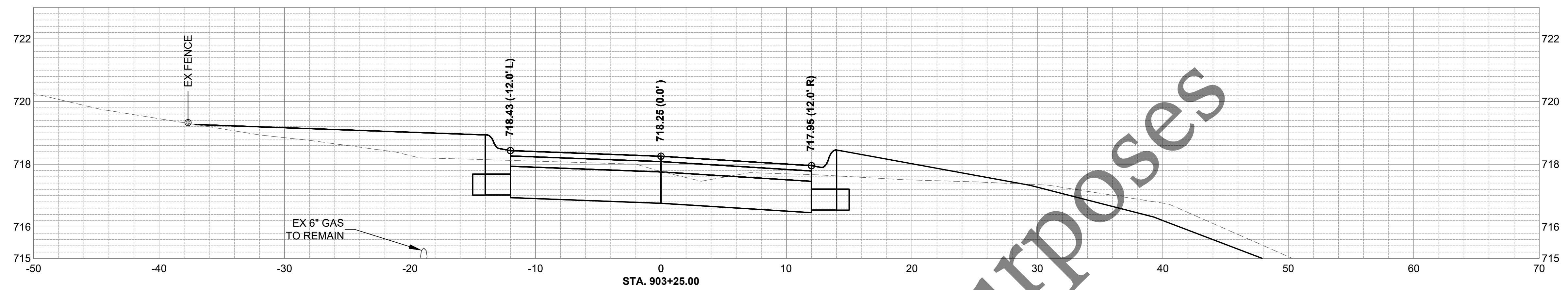
CROSS SECTIONS 3

FOR BID

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12 of 18

Date:
8/4/2023

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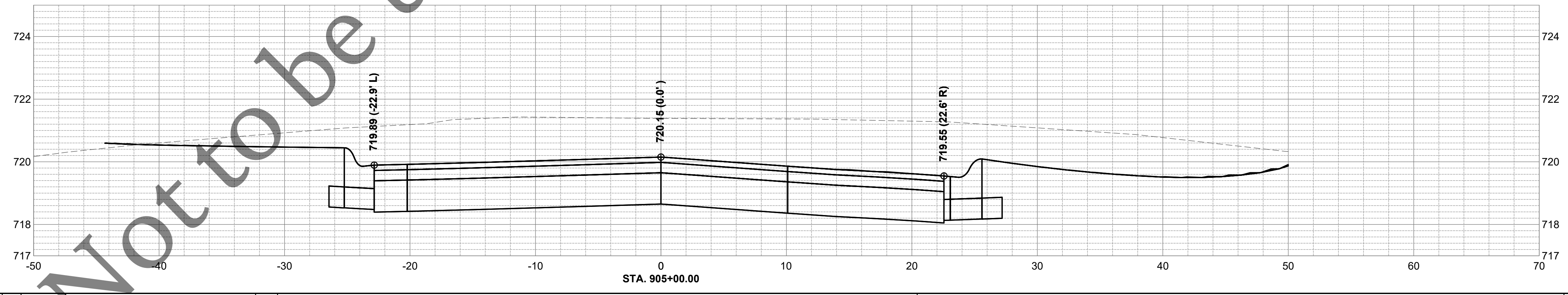
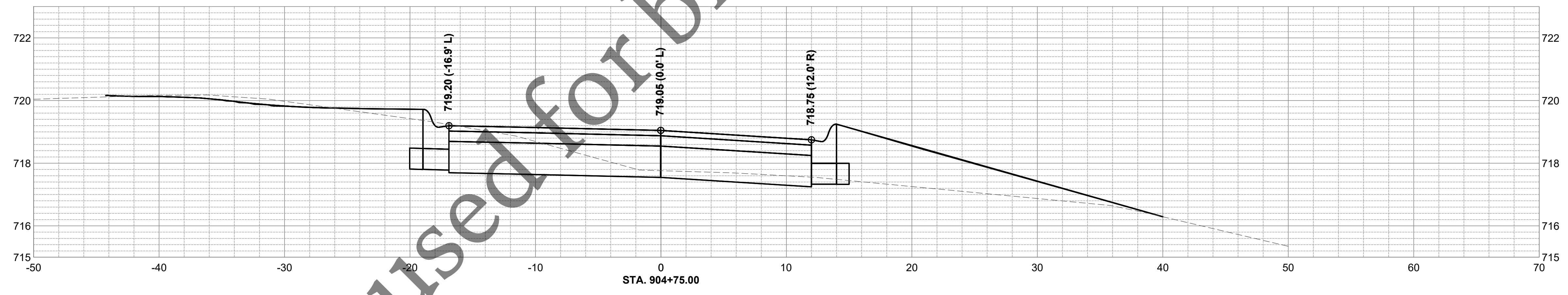
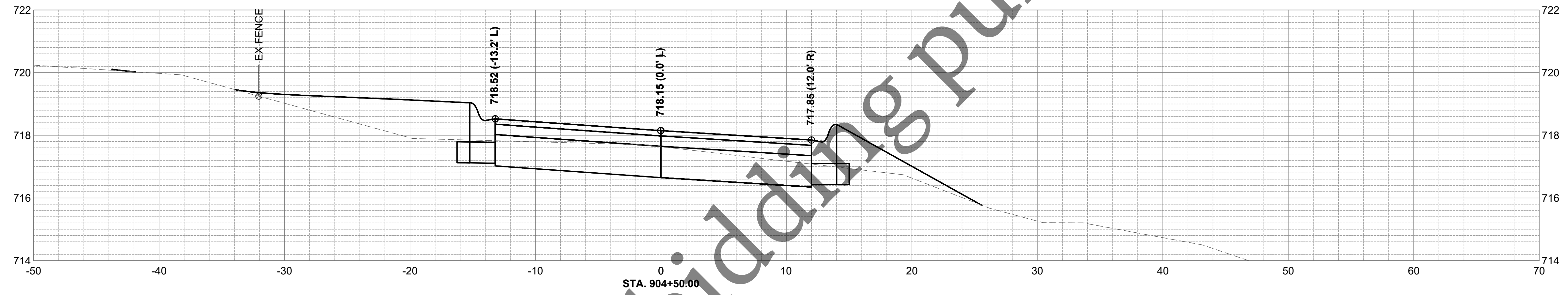
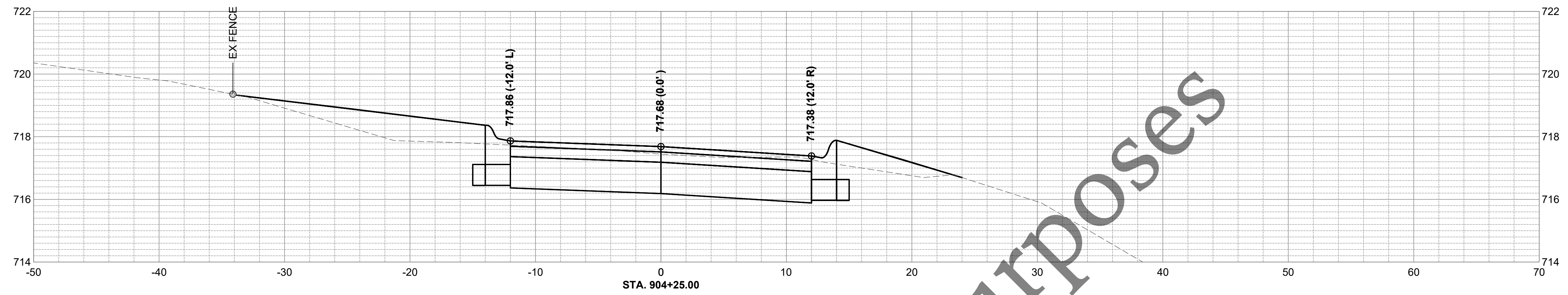
**COLLECTION SYSTEMS OPERATIONS FACILITY PARKING LOT
CAPITAL PROJECT #2217**

CROSS SECTIONS 4

Sheet No.
13 of 18

FOR BID
Date:
8/4/2023

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**COLLECTION SYSTEMS OPERATIONS FACILITY PARKING LOT
CAPITAL PROJECT #2217**

CROSS SECTIONS 5

SECTION PARALLEL TO PIPE
(Without conical top riser)

SECTION PERPENDICULAR TO PIPE
(With conical top riser)

BASE SLAB JOINT CONFIGURATIONS

GEOMETRIC LIMITS FOR PIPE PENETRATION HOLES

FLAT SLAB TOP JOINT CONFIGURATIONS
(Shown at access hole)

SHEAR KEY GEOMETRY
(Reinforcement not shown for clarity)

GENERAL NOTES

The manufacturer shall ensure that all precast manhole sections are additionally reinforced where required to resist damage from handling, shipping and installation stresses.

Lifting holes shall be located in the sections as per the manufacturer's recommendations.

See Standard 602701 for details of manhole steps.

All dimensions are in inches (millimeters) unless otherwise noted.

REVISIONS

| DATE | REVISIONS |
|--------|--|
| 1-1-21 | Revised Note 1 and lifting hole general note. |
| 3-1-19 | Moved wall reinforcement from inside face to middle. |

PRECAST MANHOLE TYPE A
4' (1.22 m) DIAMETER
(Sheet 1 of 2)
STANDARD 602401-07

PLAN - FLAT SLAB TOP
(Showing layout of reinforcement bars and c bars)

JOINT SPLICE

CONNECTION ANGLE

TIE PLATE

FLAT SLAB TOP REINFORCEMENT

| Location | WWR (each direction) | | Rebar | | Bar Size |
|------------|-------------------------------------|----------------|---|----------------|----------|
| | A _s (min.) | Spacing (max.) | A _s (min.) | Spacing (max.) | |
| Bottom Mat | ** 0.62 sq. in./ft. (1312 sq. mm/m) | 6 (150) | See plan view for rebar orientation and spacing and this table for bar size | #5 (#16) | #5 (#16) |

** Only one layer of WWR permitted to avoid congestion.

WALL REINFORCEMENT

| Location | Orientation | WWR or Rebar | | Bar Size |
|----------|-----------------|---------------------------------|----------------|----------|
| | | A _s (min.) | Spacing (max.) | |
| Riser | Circumferential | 0.12 sq. in./ft. (254 sq. mm/m) | 6 (150) | #5 (#16) |
| | Vertical | 0.045 sq. in./ft. (95 sq. mm/m) | 8 (200) | #6 (#19) |
| Barrel | Circumferential | 0.12 sq. in./ft. (254 sq. mm/m) | 6 (150) | #5 (#16) |
| | Vertical | 0.16 sq. in./ft. (339 sq. mm/m) | 4 (100) | #5 (#16) |

BASE SLAB REINFORCEMENT

| Location | Total Height | WWR or Rebar (each direction) | | Bar Size |
|----------|-------------------|---------------------------------|----------------|----------|
| | | A _s (min.) | Spacing (max.) | |
| Top Mat | ≤ 20 ft. (6.10 m) | 0.24 sq. in./ft. (508 sq. mm/m) | 10 (250) | #5 (#16) |
| | > 20 ft. (6.10 m) | 0.24 sq. in./ft. (508 sq. mm/m) | 10 (250) | #5 (#16) |

REVISIONS

| DATE | REVISIONS |
|--------|--|
| 1-1-21 | Revised Note 1 and lifting hole general note. |
| 3-1-19 | Moved wall reinforcement from inside face to middle. |

PRECAST MANHOLE TYPE A
4' (1.22 m) DIAMETER
(Sheet 2 of 2)
STANDARD 602401-07

FLAT SLAB TOP JOINT CONFIGURATIONS
FOR D = 36 (900) AND D = 4'-0" (1.22 m)
(Shown at access hole)

SECTION THRU FLAT SLAB TOP
FOR D = 36 (900) AND D = 4'-0" (1.22 m)

FLAT SLAB TOP JOINT CONFIGURATIONS
FOR D = 5'-0" (1.52 m)
(Shown at access hole)

SECTION THRU FLAT SLAB TOP
FOR D = 5'-0" (1.52 m)

PLAN - FLAT SLAB TOP FOR D = 36 (900)
(Showing layout of reinforcement bars and c bars)

PLAN - FLAT SLAB TOP FOR D = 5'-0" (1.52 m)
(Showing layout of welded wire reinforcement and c bars)

GENERAL NOTES

The flat slab top may be used in lieu of the tapered tops shown on Standards 602001, 602016, or 602036 at the option of the Contractor or when field conditions prohibit the use of tapered tops.

Lifting holes shall be located in the sections as per the manufacturer's recommendations.

All dimensions are in inches (millimeters) unless otherwise shown.

TABLE

| D | T | D _s (min.) | t |
|---------------|---------|-----------------------|---------|
| 36 (900) | 6 (150) | 27 | 6 (150) |
| 4'-0" (1.2 m) | 6 (150) | 27 | 6 (150) |
| 5'-0" (1.5 m) | 8 (200) | 27 | 8 (200) |

REVISIONS

| DATE | REVISIONS |
|--------|---|
| 1-1-19 | Expanded / refined reinforcement options. |
| 1-1-18 | Revised for compliance with LRFD. |

PRECAST REINFORCED CONCRETE FLAT SLAB TOP
(Sheet 1 of 2)
STANDARD 602601-06

FLAT SLAB TOP REINFORCEMENT FOR D = 36 (900)

| Location | WWR (each direction) | | Rebar | | Bar Size |
|------------|------------------------------------|----------------|---|----------------|----------|
| | A _s (min.) | Spacing (max.) | A _s (min.) | Spacing (max.) | |
| Bottom Mat | * 0.60 sq. in./ft. (1270 sq. mm/m) | 6 (150) | See plan view for rebar orientation and spacing and this table for bar size | #4 (#13) | #4 (#13) |

FLAT SLAB TOP REINFORCEMENT FOR D = 4'-0" (1.22 m)

| Location | WWR (each direction) | | Rebar | | Bar Size |
|------------|------------------------------------|----------------|---|----------------|----------|
| | A _s (min.) | Spacing (max.) | A _s (min.) | Spacing (max.) | |
| Bottom Mat | * 0.62 sq. in./ft. (1312 sq. mm/m) | 6 (150) | See plan view for rebar orientation and spacing and this table for bar size | #5 (#16) | #5 (#16) |

FLAT SLAB TOP REINFORCEMENT FOR D = 5'-0" (1.52 m)

| Location | WWR (each direction) | | Rebar (each direction except as noted) | | Bar Size |
|------------|-----------------------------------|----------------|---|----------------|----------------------|
| | A _s (min.) | Spacing (max.) | A _s (min.) | Spacing (max.) | |
| Top Mat | 0.11 sq. in./ft. (233 sq. mm/m) | 18 (450) | 0.11 sq. in./ft. (233 sq. mm/m) | 18 (450) | #3 or #4 (#10) (#13) |
| Bottom Mat | * 0.40 sq. in./ft. (847 sq. mm/m) | 6 (150) | See plan view for rebar orientation and spacing and this table for bar size | #4 (#13) | #4 (#13) |

* Only one layer of WWR permitted to avoid congestion.

REVISIONS

| DATE | REVISIONS |
|--------|---|
| 1-1-19 | Expanded / refined reinforcement options. |
| 1-1-18 | Revised for compliance with LRFD. |

PRECAST REINFORCED CONCRETE FLAT SLAB TOP
(Sheet 2 of 2)
STANDARD 602601-06

| No. | DATE | REVISION | INT. |
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CAST IRON STEPS

All dimensions are in inches (millimeters) unless otherwise shown.

| DATE | REVISIONS |
|--------|--|
| 1-1-09 | Switched units to English (metric). |
| 4-1-06 | Revised title, drawings, and added plastic steps on sheet 2. |

Illinois Department of Transportation

PASSED: January 1, 2009
ENGINEER OF POLICY AND PROCEDURES

APPROVED: January 1, 2009
ENGINEER OF DESIGN AND ENVIRONMENT

MANHOLE STEPS

(Sheet 1 of 2)

STANDARD 602701-02

PLASTIC STEPS

All dimensions are in inches (millimeters) unless otherwise shown.

| DATE | REVISIONS |
|--------|--|
| 1-1-09 | Switched units to English (metric). |
| 4-1-06 | Revised title, drawings, and added plastic steps on sheet 2. |

Illinois Department of Transportation

PASSED: January 1, 2009
ENGINEER OF POLICY AND PROCEDURES

APPROVED: January 1, 2009
ENGINEER OF DESIGN AND ENVIRONMENT

MANHOLE STEPS

(Sheet 2 of 2)

STANDARD 602701-02

CATCH BASIN TYPE C

All dimensions are in inches (millimeters) unless otherwise shown.

| DATE | REVISIONS |
|--------|---|
| 1-1-11 | Detailed rein. in slabs. Added max. limit to height. Added general notes. |
| 1-1-09 | Switched units to English (metric). |

| ALTERNATE MATERIALS FOR WALLS | | T (min) |
|-------------------------------------|---|---------|
| Precast Reinforced Concrete Section | 3 | (75) |
| Concrete Masonry Unit | 5 | (125) |
| Cast-in-Place Concrete | 6 | (150) |
| Brick Masonry | 8 | (200) |

Illinois Department of Transportation

PASSED: January 1, 2011
ENGINEER OF POLICY AND PROCEDURES

APPROVED: January 1, 2011
ENGINEER OF DESIGN AND ENVIRONMENT

CATCH BASIN TYPE C

STANDARD 602011-02

GRATE TYPE 8

All dimensions are in inches (millimeters) unless otherwise shown.

| DATE | REVISIONS |
|--------|-------------------------------------|
| 1-1-15 | Revised dimensions. |
| 1-1-09 | Switched units to English (metric). |

Illinois Department of Transportation

PASSED: January 1, 2015
ENGINEER OF POLICY AND PROCEDURES

APPROVED: January 1, 2015
ENGINEER OF DESIGN AND ENVIRONMENT

GRATE TYPE 8

STANDARD 604036-03



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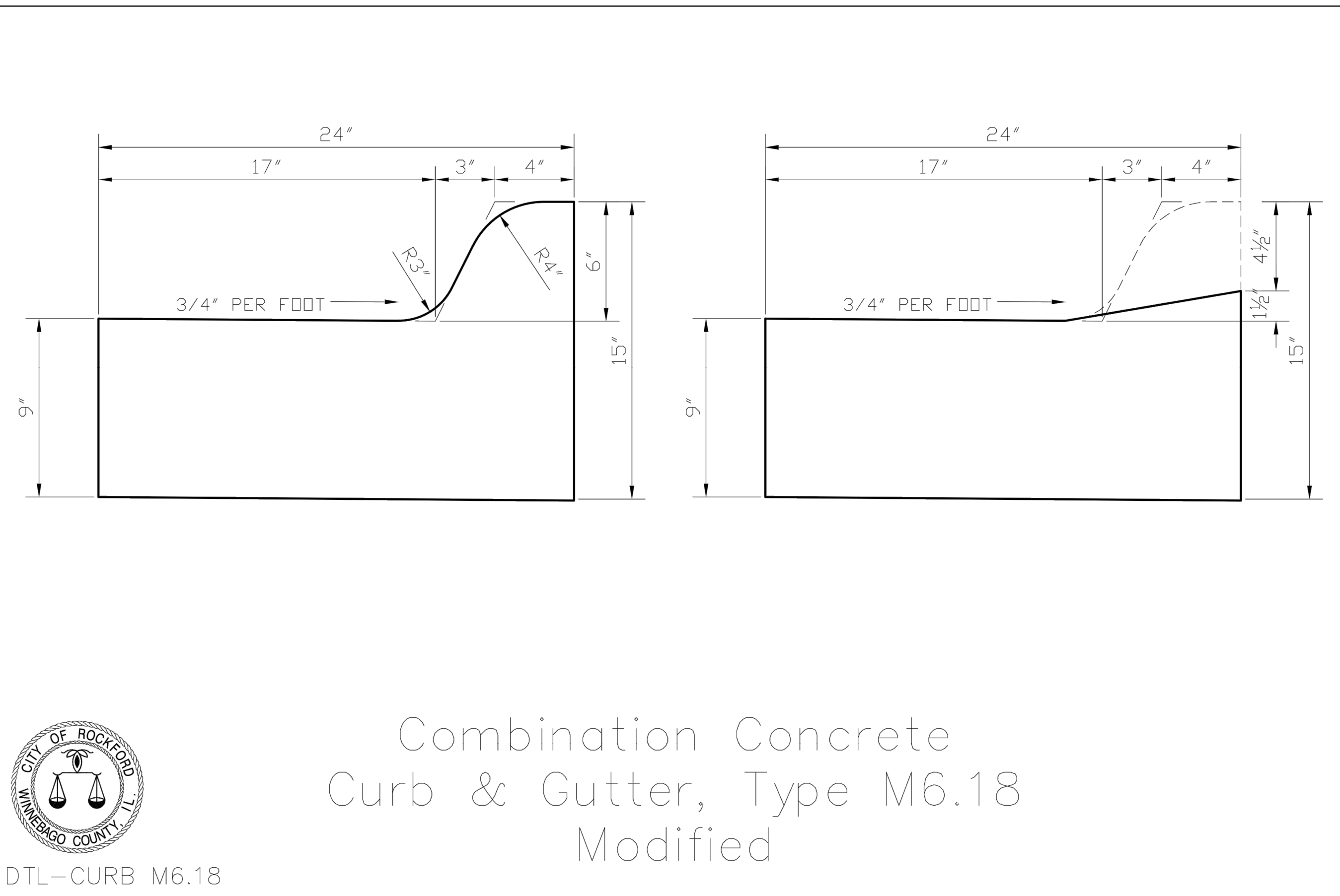
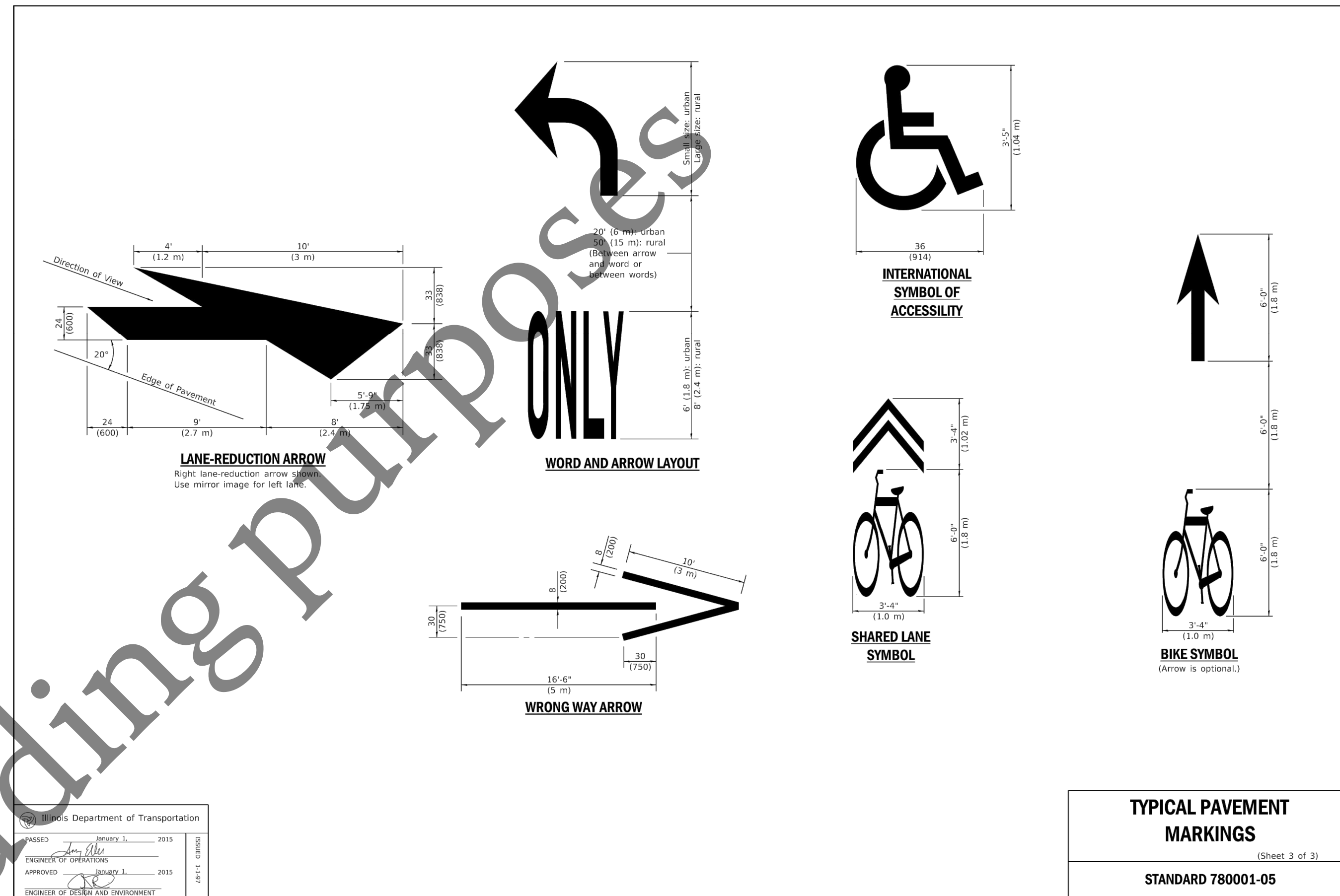
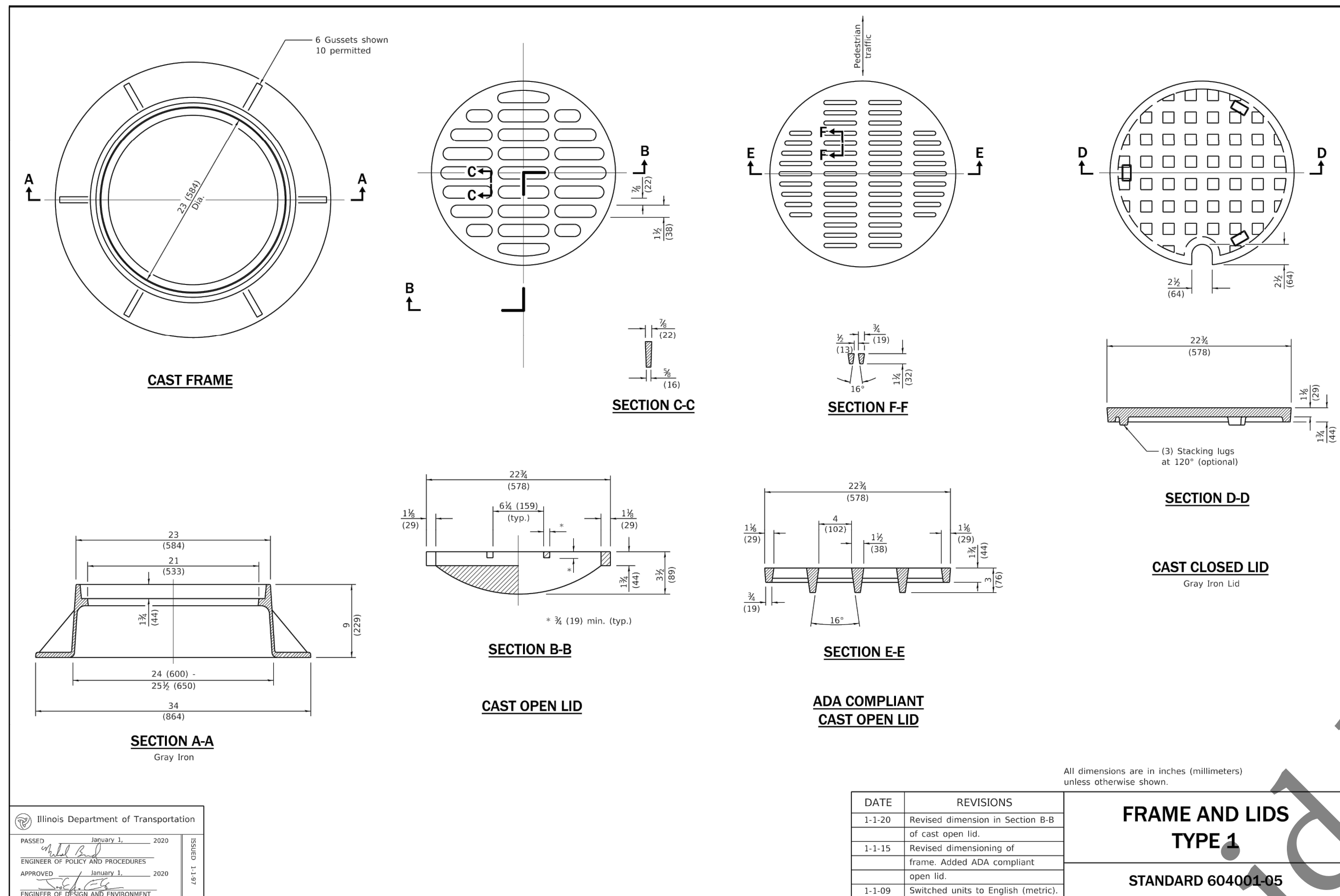
COLLECTION SYSTEMS OPERATIONS FACILITY PARKING LOT
CAPITAL PROJECT #2217

PROJECT DETAILS 2

FOR BID

Sheet No.
16 of 18

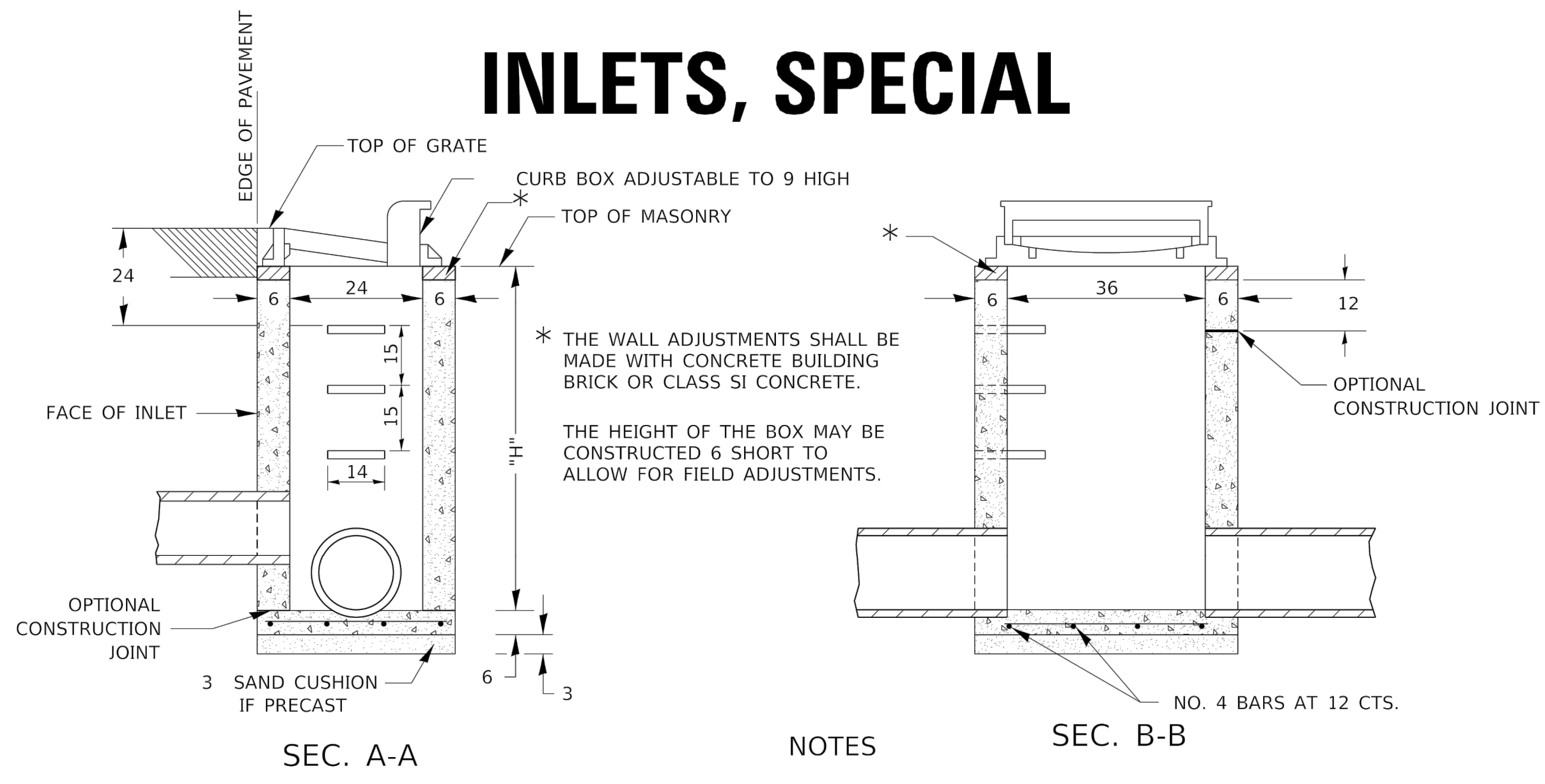
Date:
8/4/2023



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INLETS, SPECIAL



NOTES

SEE STANDARD 602701 FOR DETAILS OF STEPS.

EXCEPT AS NOTED HEREON INLET SPECIAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.

THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTED SECTIONS.

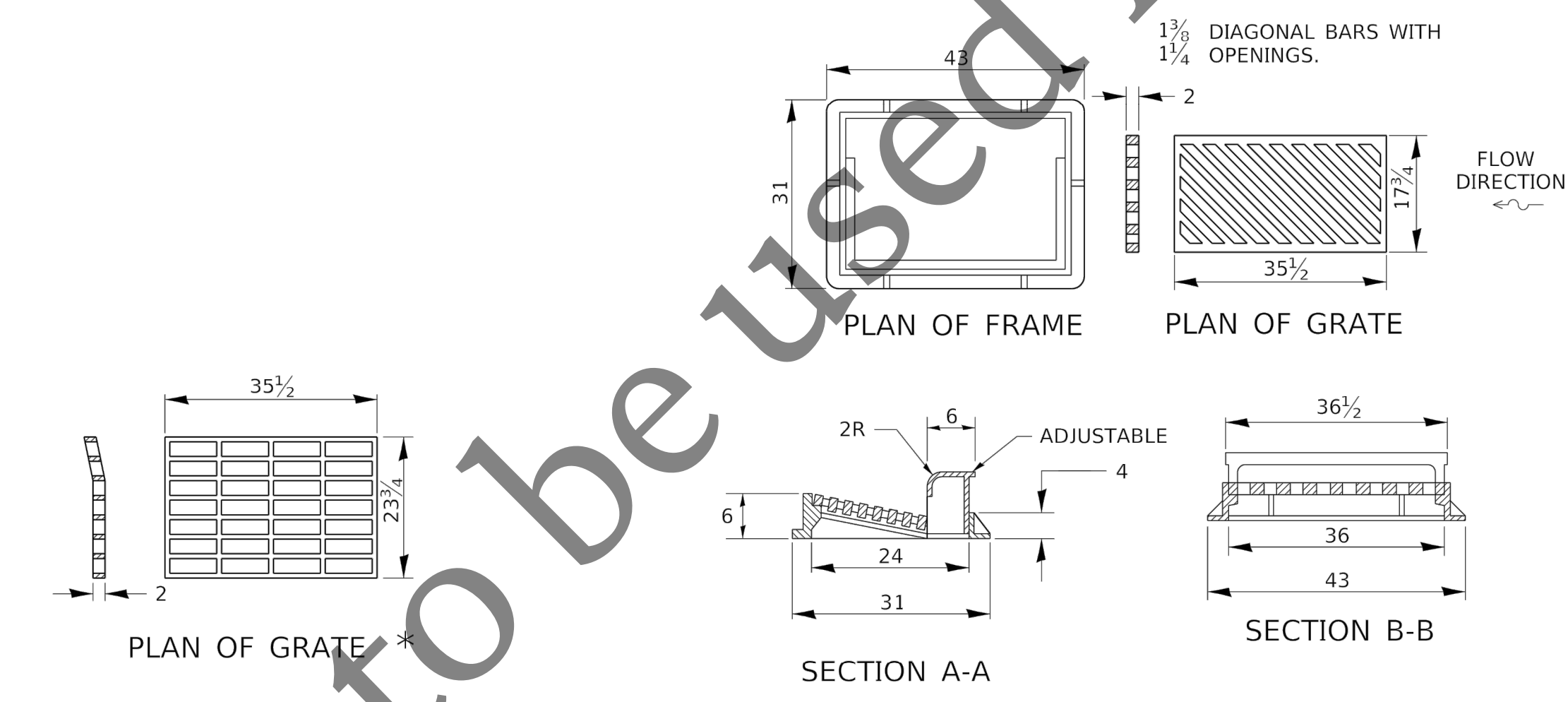
ALL VOIDS AROUND PIPE ENTRANCE, BOTH INSIDE AND OUTSIDE, SHALL BE SEALED WITH MORTAR.

WEIGHT OF CAST IRON FRAME & GRATE = 530 lbs. ± . STEPS SHALL BE OMITTED WHEN DEPTH OF "H" IS LESS THAN 5 ft.

CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT. PRECAST CONCRETE SHALL BE IN ACCORDANCE WITH ARTICLES 504.01 THRU 504.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT CONCRETE STRENGTH SHALL BE 4,000 psi AFTER 28 DAYS.

THE CONTRACT UNIT PRICE EACH FOR INLETS, SPECIAL SHALL INCLUDE THE COST OF CONSTRUCTING THE INLET BOX, FURNISHING AND INSTALLING THE FRAME AND GRATE, THE CAST IRON STEPS (IF USED), THE PRECAST FLOOR SLABS, SAND CUSHION (WHEN USED) AND REINFORCEMENT BARS.

DETAIL OF FRAME & GRATE

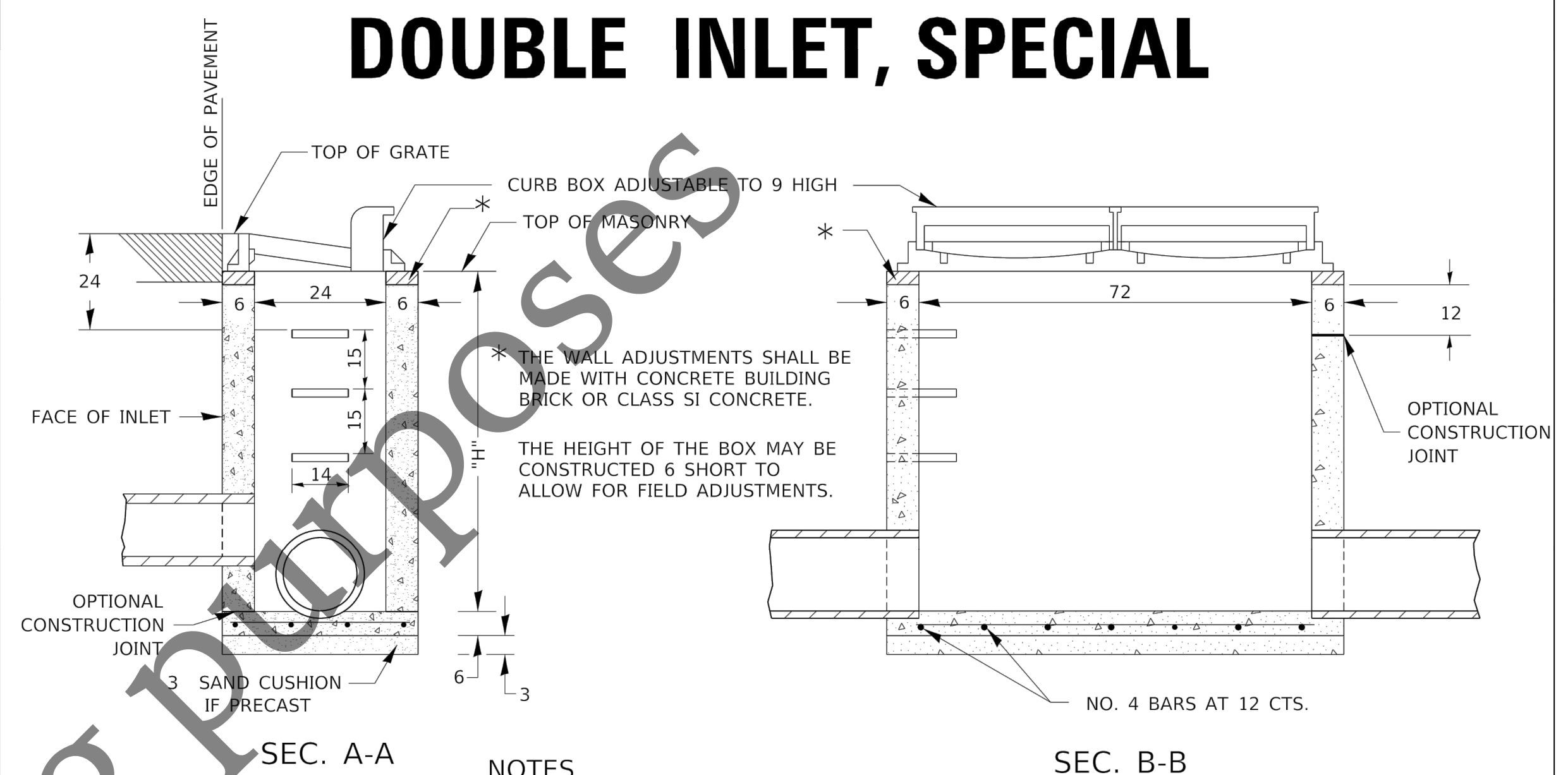


* THIS GRATE TO BE USED WITHOUT CURB BOX WHEN INLET IS IN DRIVEWAY.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

| | | | | | | | | | |
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| REVISED - 1-05-16 | REGION 2 / DISTRICT 2 STANDARD | | | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| REVISED - 6-27-14 | | | | | | | | | |
| REVISED - 10-13-11 | | | | | CONTRACT NO. | | | | |
| REVISED - | SCALE: 1.0000' / in. | SHEET | OF | SHEETS | STA. | TO STA. | ILLINOIS FED. AID PROJECT | | |
| | | | | | INLETS, SPECIAL 10.2 | | | | |

DOUBLE INLET, SPECIAL



NOTES

SEE STANDARD 602701 FOR DETAILS OF STEPS.

EXCEPT AS NOTED HEREON DOUBLE INLET SPECIAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.

THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTED SECTIONS.

ALL VOIDS AROUND PIPE ENTRANCE, BOTH INSIDE AND OUTSIDE, SHALL BE SEALED WITH MORTAR.

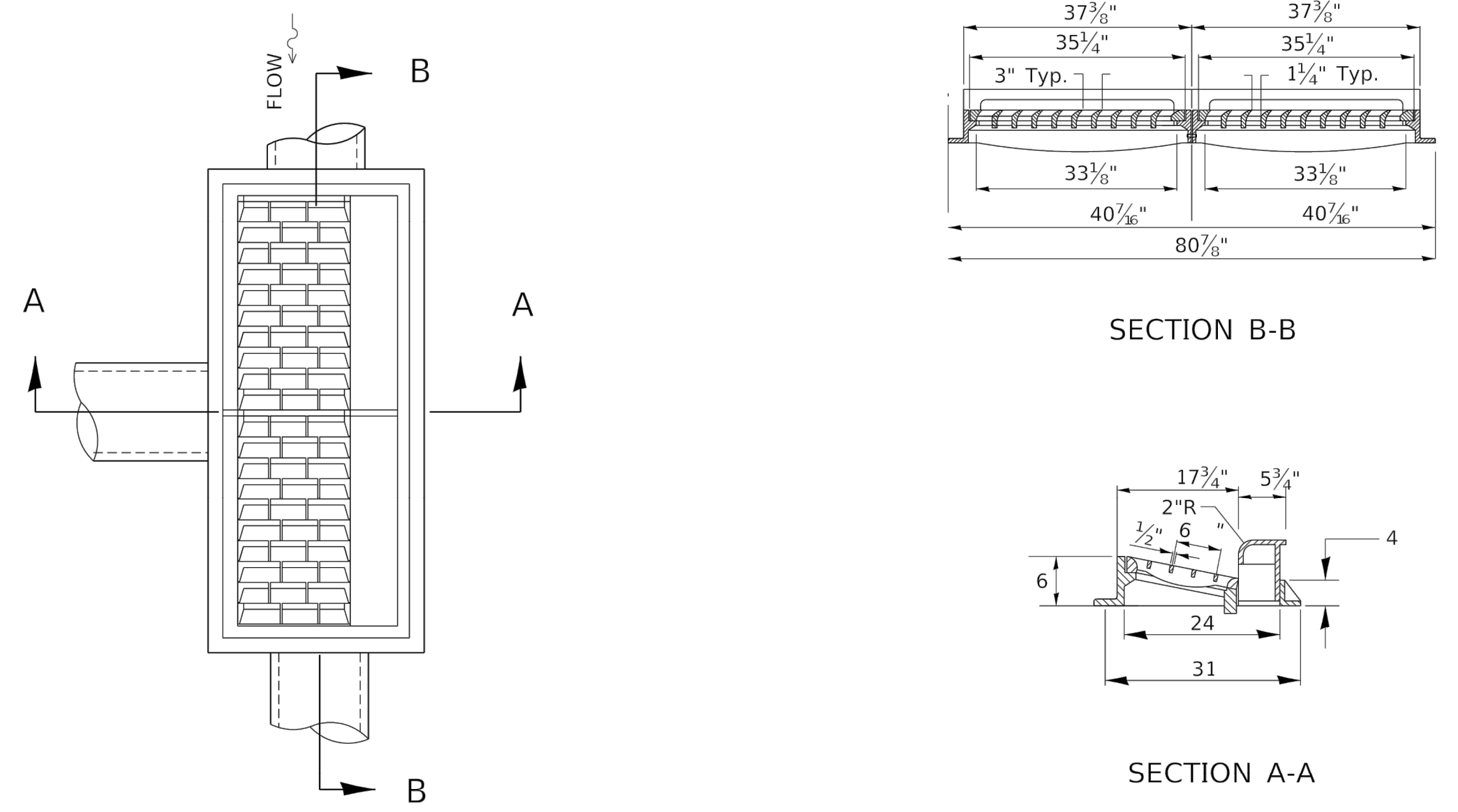
R-3295-2 DOUBLE UNIT OR EQUIVALENT.

STEPS SHALL BE OMITTED WHEN DEPTH OF "H" IS LESS THAN 5 FOOT.

CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT. PRECAST CONCRETE SHALL BE IN ACCORDANCE WITH ARTICLES 504.01 THRU 504.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT CONCRETE STRENGTH SHALL BE 4,000 psi AFTER 28 DAYS.

CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT. THE CONTRACT UNIT PRICE EACH FOR INLET SPECIAL SHALL INCLUDE THE COST OF CONSTRUCTING THE INLET BOX, FURNISHING AND INSTALLING THE FRAME AND GRATE, THE STEPS (IF USED), THE PRECAST FLOOR SLABS, SAND CUSHION (WHEN USED) AND REINFORCEMENT BARS.

DETAIL OF FRAME & GRATE



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

| | | | | | | | | | |
|--------------------|--------------------------------|-------|----|--------|-----------------------------------|---------|---------------------------|--------------|-----------|
| REVISED - 1-05-16 | REGION 2 / DISTRICT 2 STANDARD | | | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| REVISED - 7-16-15 | | | | | | | | | |
| REVISED - 10-13-11 | | | | | CONTRACT NO. | | | | |
| REVISED - | SCALE: 1.0000' / in. | SHEET | OF | SHEETS | STA. | TO STA. | ILLINOIS FED. AID PROJECT | | |
| | | | | | DOUBLE INLET, SPECIAL 12.2 | | | | |



| No. | DATE | REVISION | INT. |
|-----|------|----------|------|
| | | | |
| | | | |

**COLLECTION SYSTEMS OPERATIONS FACILITY PARKING LOT
CAPITAL PROJECT #2217**

PROJECT DETAILS 4

Sheet No.
18 of 18

Date:
8/4/2023

FOR BID