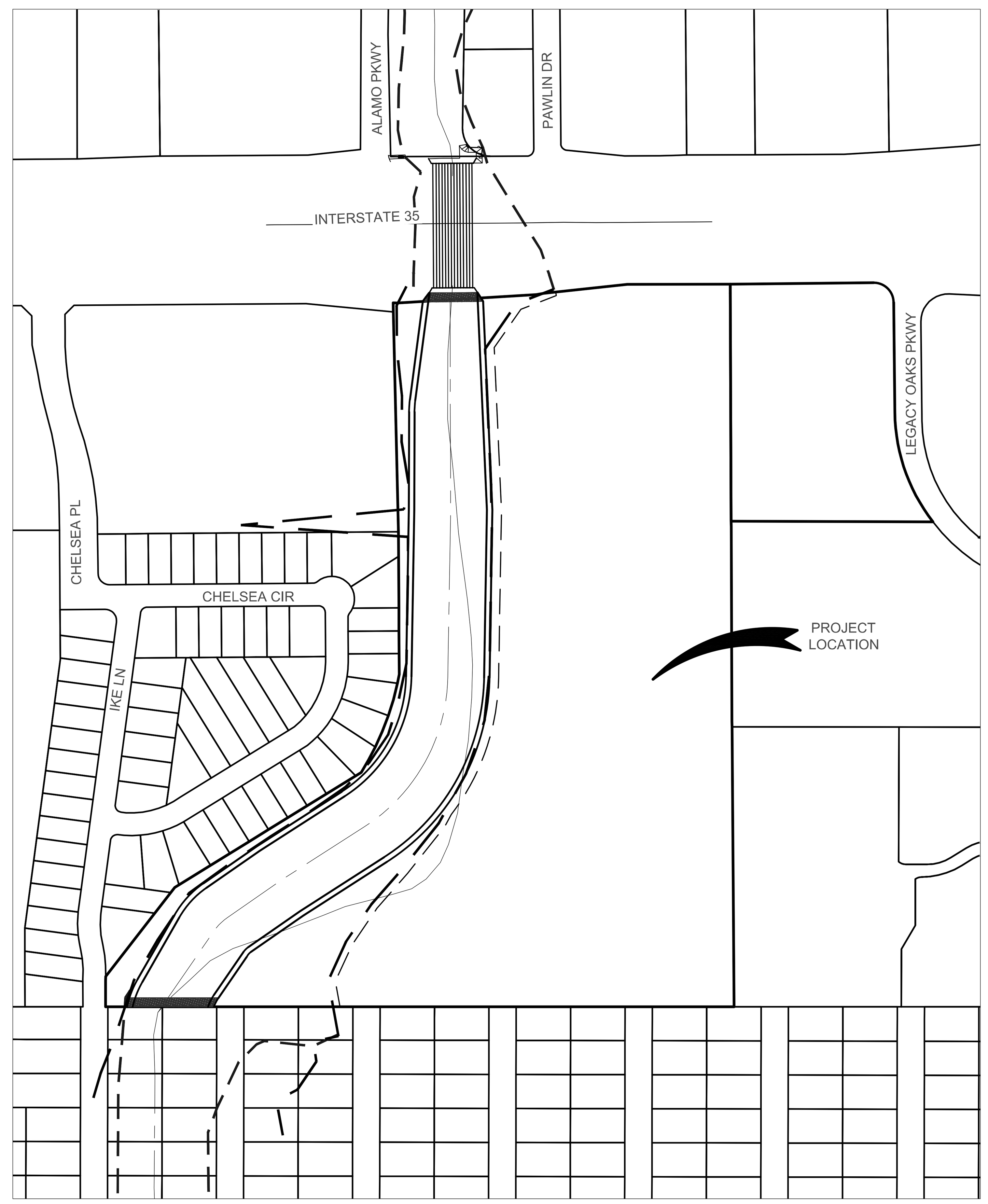
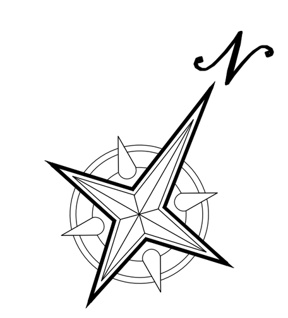
CONSTRUCTION PLANS
for
CHELSEA PARK II

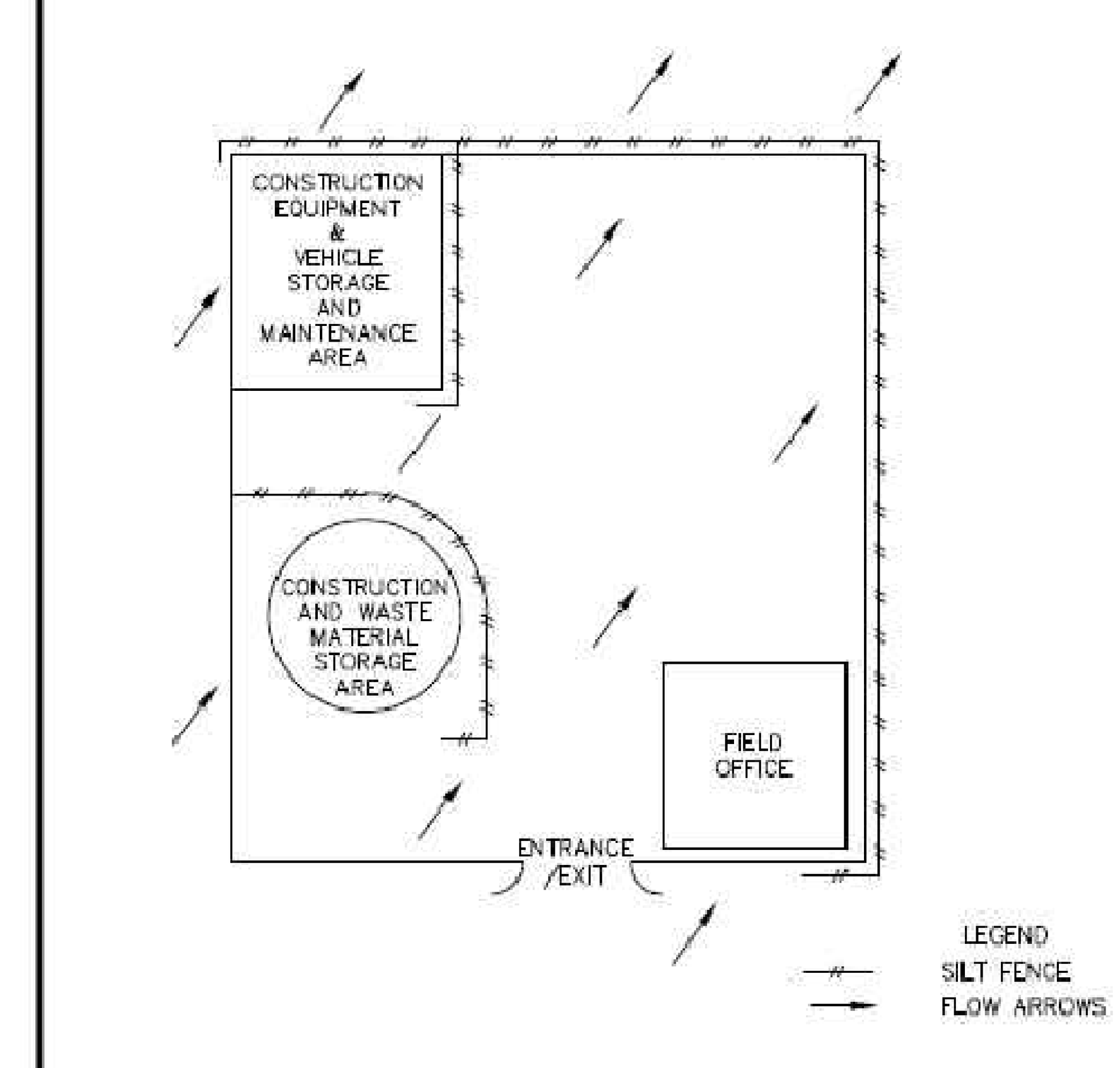


OVERALL SITE

NOT TO SCALE



Sheet List Table



1 ***CONSTRUCTION STAGING AREA***

SCALE: NONE

PREPARED BY:

KCI TECHNOLOGIES, INC.

2806 WEST BITTERS RD. SUITE 218
SAN ANTONIO, TEXAS 78230-1037
PHONE: (210) 641-9999
FAX: (210) 641-6440
REGISTRATION #F-10573 / #101943-65

OWNER/DEVELOPER:

CHELSEA PARK FPRP
16607 BLANCO RD, SUITE 201
SAN ANTONIO, TEXAS 78232

REV	DATE	DESCRIPTION

06/27/2025
STATE OF TEXAS
MARY P. STEWART
108905
LICENSED
PROFESSIONAL ENGINEER

KCI TECHNOLOGIES, INC.
2806 W. BITTERS RD, SUITE 218
SAN ANTONIO, TEXAS 78248
PHONE: (210) 641-9999
FAX: (210) 641-6440
REGISTRATION #F-10573 / #101943-65

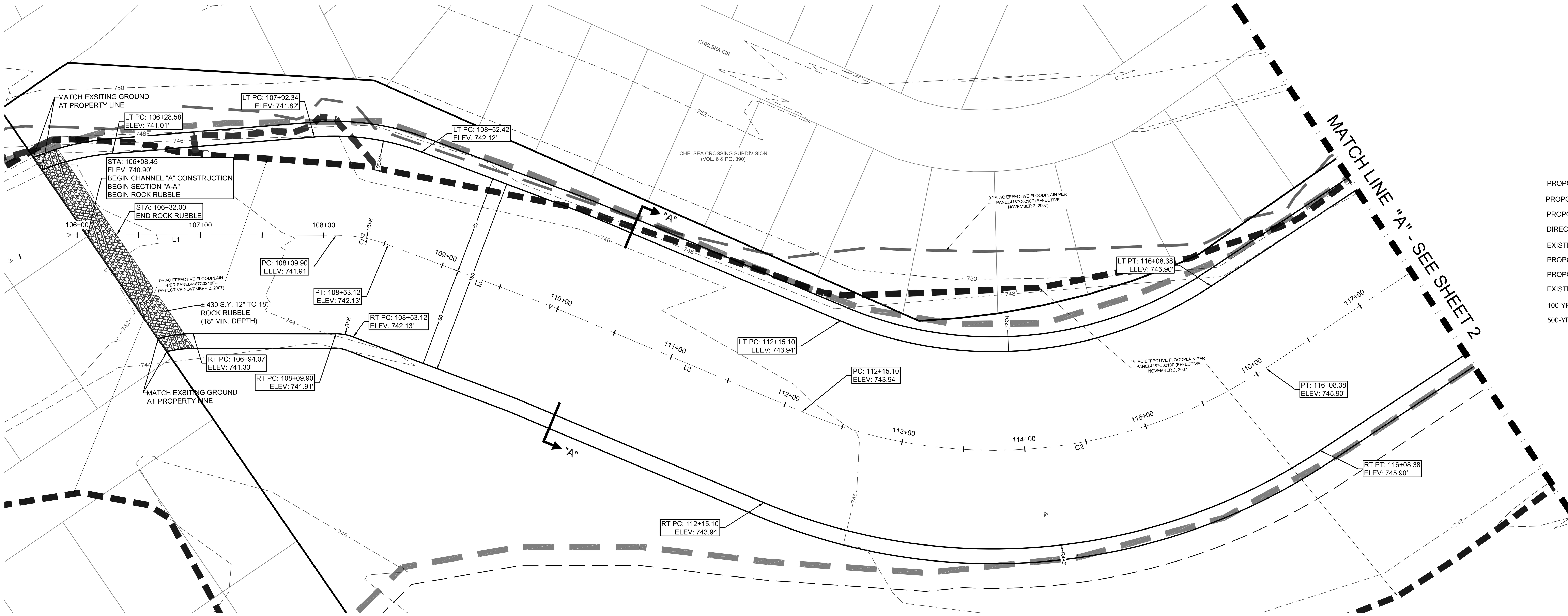
CHELSEA PARK II

COVER SHEET

DRAFTING:	N.O.	CHECK:	C.P.
DESIGN:	C.P.	CHECK:	M.P.S.
SUBMITTAL PHASE:			
DATE:			6/27/2025
KCI JOB #:			762305304

SHEET:

0



0	50' 100'

LEGEND

- PROPOSED STORM DRAIN
- PROPOSED EARTHEN CHANNEL
- PROPOSED SANITARY SEWER MAIN
- DIRECTION OF FLOW
- EXISTING WATER MAIN
- PROPOSED WATER MAIN
- PROPOSED CONTOURS
- EXISTING CONTOURS
- 100-YR FLOOD PLAIN
- 500-YR FLOOD PLAIN

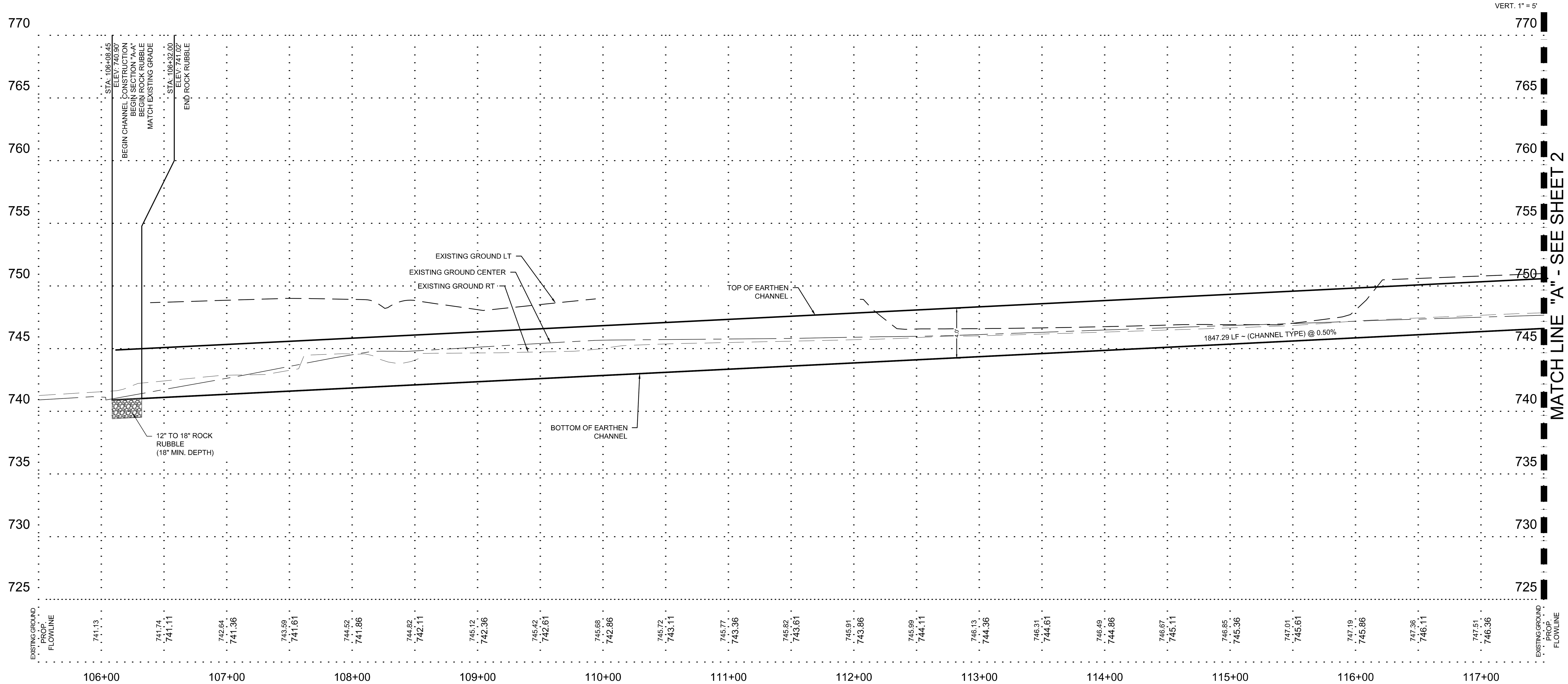
Line Table		
Line	Length	Direction
L1	201.44'	S04°32'47"W
L2	140.73'	S25°11'01"W
L3	221.26'	S27°18'35"W
L4	369.12'	S29°01'22"E
L5	459.18'	S30°09'01"E

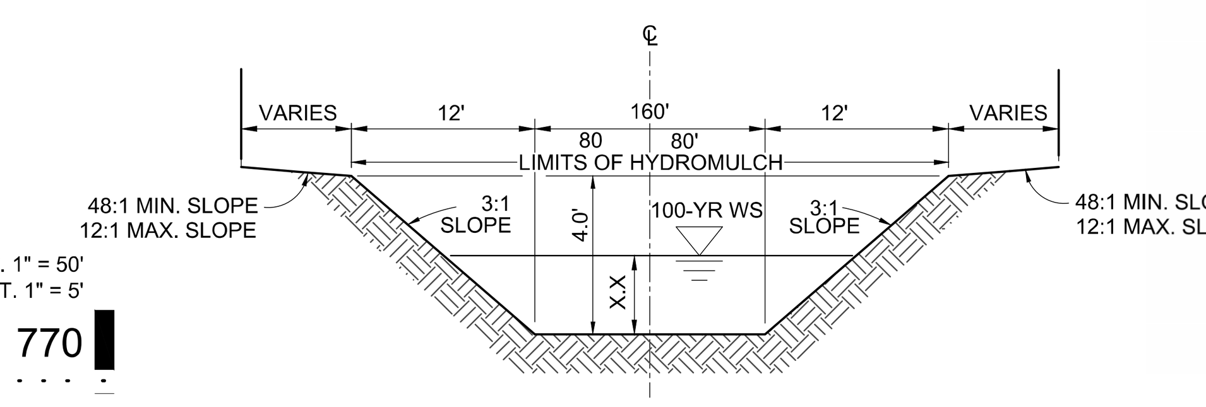
Curve Table					
Curve #	Length	Radius	Delta	Chord Direction	Chord Length
C1	43.22'	120.00'	020°38'14"	S14° 51' 54"W	42.99'
C2	393.28'	400.00'	056°19'57"	S0° 51' 24"E	377.63'

CHANNEL A

STA.106+08.45 TO STA. 117+50.00

SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'





SECTION "A-A" (EARTHEN)
NOT TO SCALE
STA. 106+08.45 TO STA. 119+77.50

06/27/2025
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KCI TECHNOLOGIES, INC.
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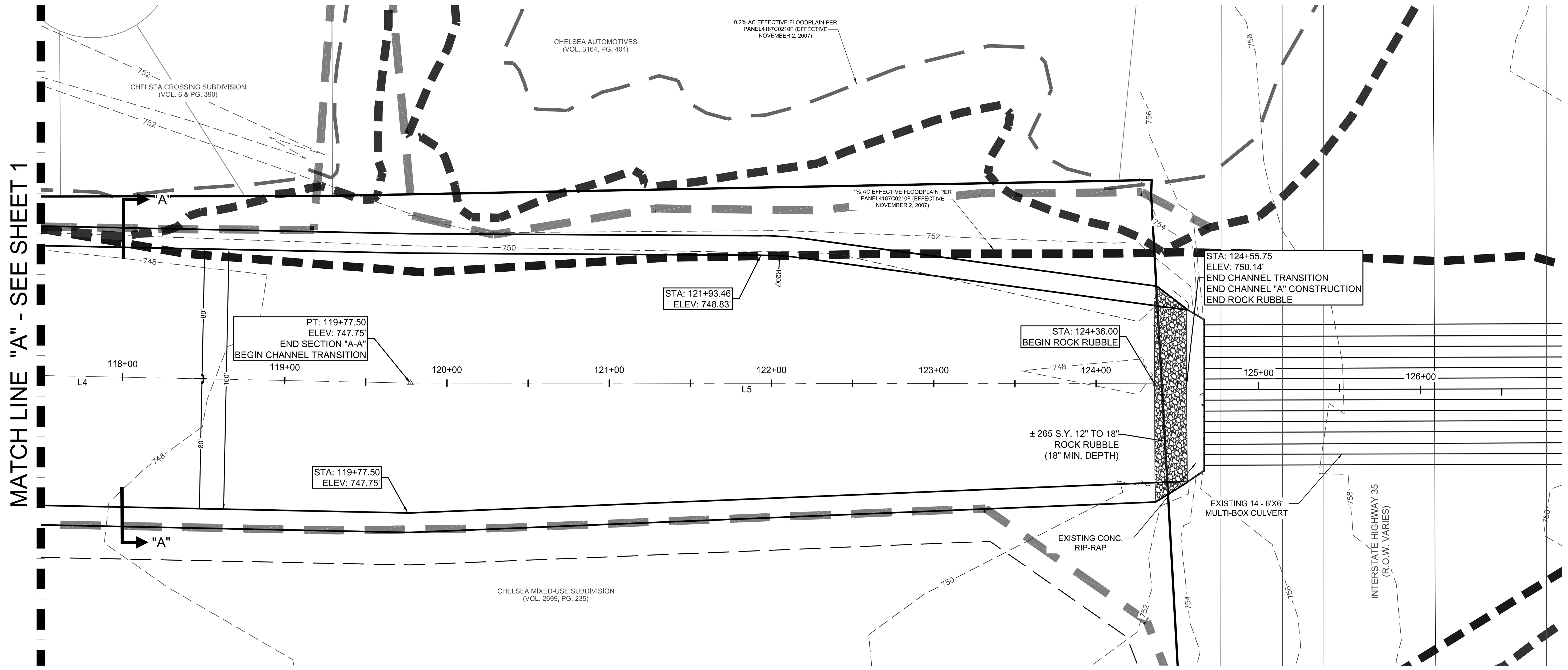
SAN ANTONIO, TEXAS 78248
PHONE: (210) 641-9999
FAX: (210) 641-6440
REGISTRATION #F-10573 / #101943-65

REV | DATE | DESCRIPTION

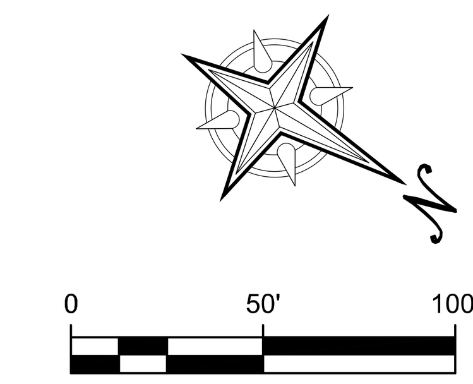
CHELSEA PARK II
CHANNEL A PLAN AND PROFILE

DRAFTING: N.O.	CHECK: C.P.
DESIGN: C.P.	CHECK: M.P.S.
SUBMITTAL PHASE:	
DATE:	6/27/2025
KCI JOB #:	762305304
SHEET:	1



CHANNEL A

STA.117+50.00 TO STA. 124+55.75



LEGEND

- PROPOSED STORM DRAIN
- PROPOSED EARTHEN CHANNEL
- PROPOSED SANITARY SEWER MAIN
- DIRECTION OF FLOW
- EXISTING WATER MAIN
- PROPOSED WATER MAIN
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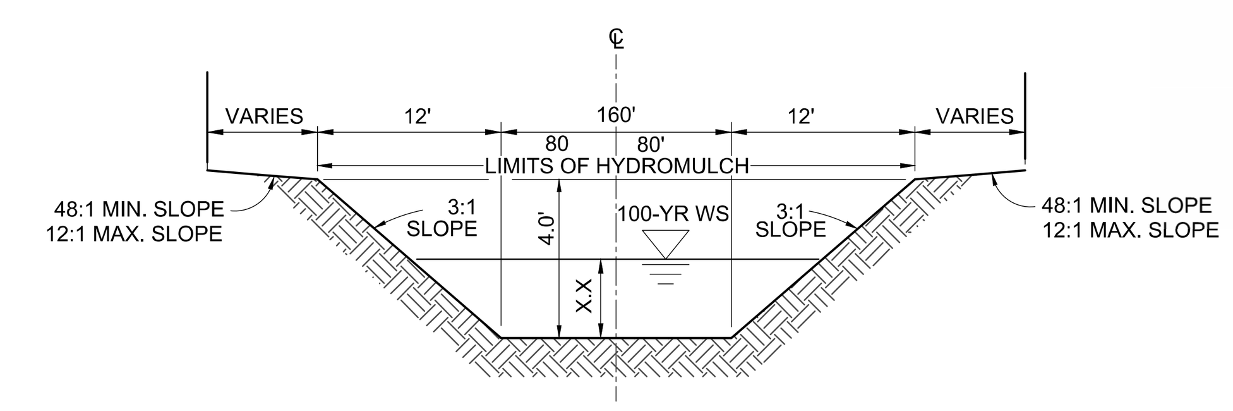
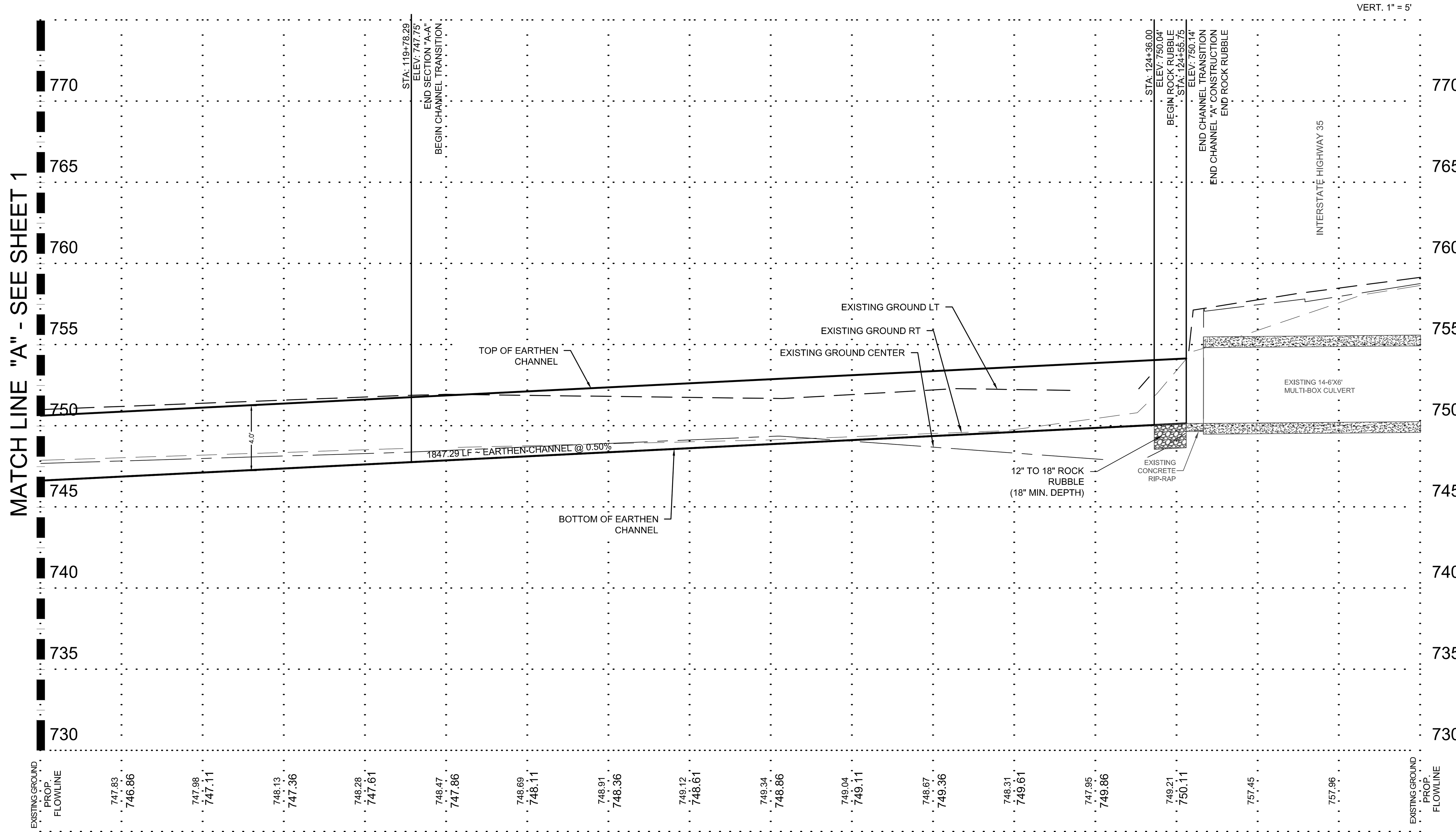


SECTION "A-A" (EARTHEN)
NOT TO SCALE
STA. 106+08.45 TO STA. 119+77.50

SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'



06/27/2025
STATE OF TEXAS
MARY P. STEWART
108905
LICENSED PROFESSIONAL ENGINEER

KCI TECHNOLOGIES, INC.
2806 W. BITTERS RD, SUITE 218
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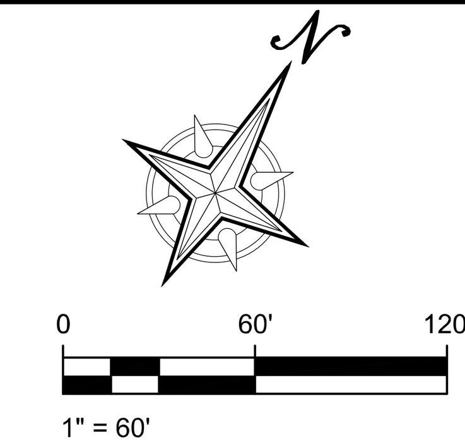
PHONE: (210) 641-9999
FAX: (210) 641-6440
REGISTRATION #F-10573 / #10194365

REV	DATE	DESCRIPTION

CHELSEA PARK II
CHANNEL A PLAN AND PROFILE

DRAFTING: N.O.	CHECK: C.P.
DESIGN: C.P.	CHECK: M.P.S.
SUBMITTAL PHASE:	
DATE:	6/27/2025
KCI JOB #:	762305304
SHEET:	2



LEGEND

EXISTING CONTOUR	740
PROPOSED CONTOUR	(740)

GENERAL NOTES

1. FILL MATERIALS: MATERIALS SHALL CONSIST OF SOILS APPROVED BY THE ENGINEER FROM SOURCES IDENTIFIED AND APPROVED. THE SOIL SHALL BE FREE OF VEGETABLE MATTER AND OTHER DELETERIOUS SUBSTANCE AND SHALL NOT CONTAIN ROCKS OR LUMPS HAVING A DIAMETER GREATER THAN SIX INCHES (6").
2. DEPTH AND MIXING OF FILL LAYERS: THE SELECTED FILL MATERIAL SHALL BE PLACED IN LEVEL, UNIFORM LAYERS WHICH, WHEN COMPACTED, SHALL HAVE A DENSITY CONFORMING TO REQUIRED AMOUNT OF COMPACTION. EACH LAYER SHALL BE THOROUGHLY BLADE MIXED DURING THE SPREADING TO INSURE UNIFORMITY OF MATERIAL IN EACH LAYER. COMPACTED LAYER THICKNESS NORMALLY WILL BE SIX INCHES (6"), HOWEVER, IT MAY BE INCREASED TO TWELVE INCHES (12") IF COMPACTION EQUIPMENT OF DEMONSTRATED CAPABILITY WILL BE USED.
3. ROCK: WHEN FILL MATERIAL INCLUDES ROCK; THE MAXIMUM ROCK SIZE ACCEPTABLE SHALL BE SIX INCHES (6"). NO LARGE ROCKS SHALL BE ALLOWED TO NEST AND ALL VOIDS MUST BE CAREFULLY FILLED WITH SMALL STONES OR EARTH, AND PROPERLY COMPACTED. NO LARGE ROCKS WILL BE ALLOWED WITHIN TWELVE INCHES (12") OF THE FINISHED SURFACE.
4. MOISTURE CONTENT: THE FILL MATERIAL SHALL BE COMPACTED AT THE APPROPRIATE MOISTURE CONTENT SPECIFIED FOR THE SOILS BEING USED AND IDENTIFIED IN SOIL AND LABORATORY REPORTS. MOISTURE CONTENT TOLERANCES SHALL BE PLUS OR MINUS 3% FROM OPTIMUM.
5. AMOUNT OF COMPACTION: AFTER EACH LAYER (LIFT) HAS BEEN PLACED, MIXED AND SPREAD EVENLY, IT SHALL BE COMPACTED TO THE SPECIFIED DENSITY. THE SPECIFIED DENSITY SHALL BE STATED AS A PERCENTAGE OF THE MAXIMUM DENSITY ATTAINABLE USING CURRENT ASTM D 698 TO 95 PERCENT DENSITY.
6. COMPACTION OF FILL LAYER: COMPACTION EQUIPMENT SHALL BE OF SUCH DESIGN THAT IT WILL COMPACT THE FILL TO THE APPROPRIATE SPECIFIED DENSITY AT THE OPTIMUM MOISTURE CONTENT. COMPACTION EFFORT SHALL BE CONTINUOUS OVER EACH LAYER UNTIL DENSITY HAS BEEN ACHIEVED.
7. DENSITY TESTS: FIELD DENSITY TESTS SHALL BE MADE BY THE SOILS ENGINEER AFTER THE COMPACTION OF EACH LAYER. WHEN TEST INDICATE THAT THE DENSITY OF ANY LAYER OR PORTION IS BELOW REQUIRED DENSITY, THE AREA SHALL BE REWORKED UNTIL DENSITY IS OBTAINED. THE NUMBER OF TESTS SHALL BE ESTABLISHED BY THE SOIL ENGINEER TO CERTIFY TO THE REQUIRED 79G LETTER REQUIREMENTS.

MATCH LINE "A": SEE SHEET 8

REV	DATE	DESCRIPTION

06/27/2025
STATE OF TEXAS
MARY P. STEWART
108905
LICENSED PROFESSIONAL ENGINEER

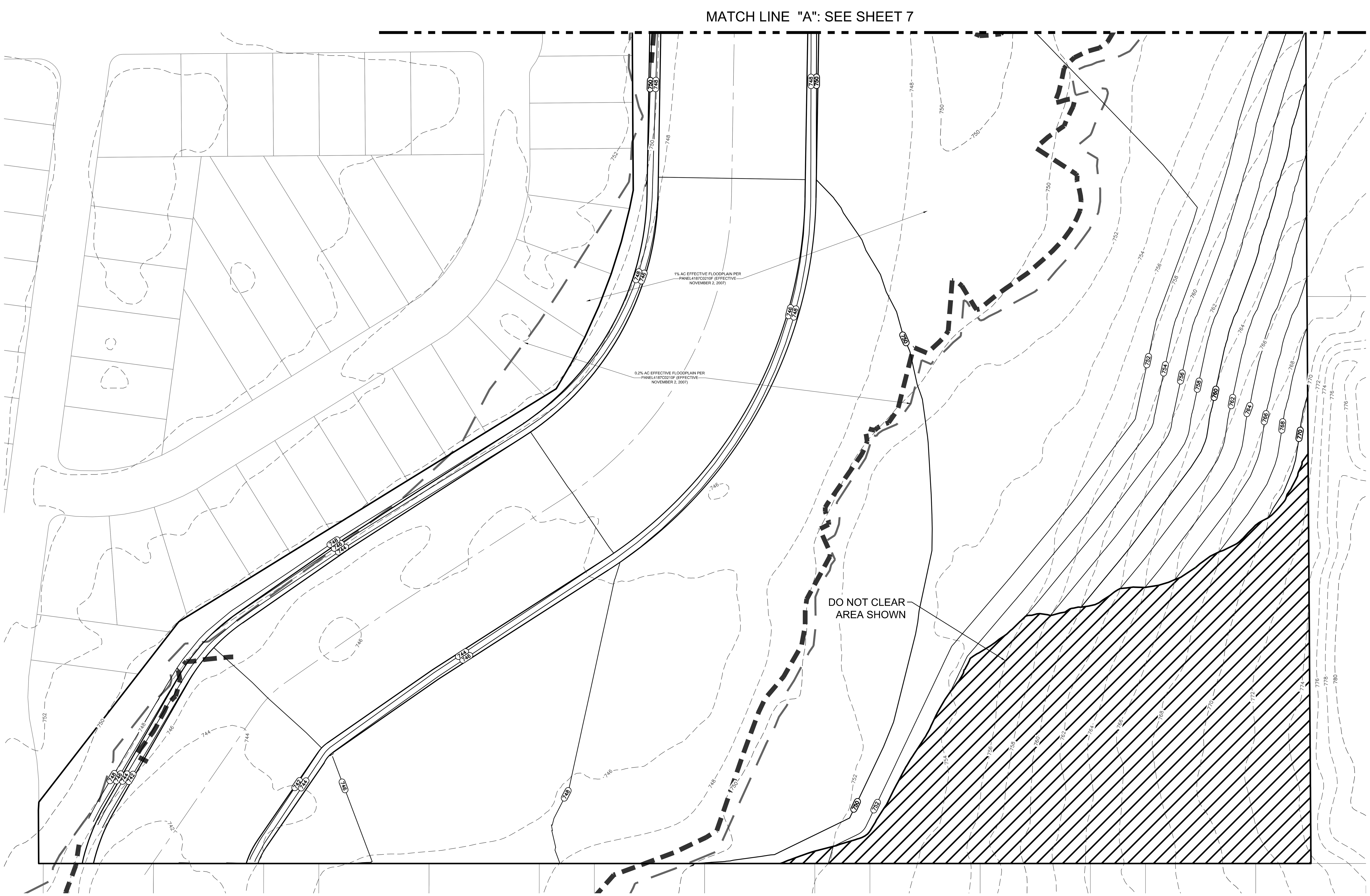
KCI TECHNOLOGIES, INC.
2806 W. BITTERS RD, SUITE 218
SAN ANTONIO, TEXAS 78248
PHONE: (210) 641-9999
FAX: (210) 641-6440
REGISTRATION #F-10573 / #101943-65

KCI TECHNOLOGIES

CHELSEA PARK II
GRADING PLAN

DRAFTING:	N.O.	CHECK:	C.P.
DESIGN:	C.P.	CHECK:	M.P.S.
SUBMITTAL PHASE:			
DATE:	6/27/2025		
KCI JOB #:	762305304		

SHEET:
3



0 60' 120'
1" = 60'

LEGEND

EXISTING CONTOUR — 740
PROPOSED CONTOUR — (740)

GENERAL NOTES

1. FILL MATERIALS: MATERIALS SHALL CONSIST OF SOILS APPROVED BY THE ENGINEER FROM SOURCES IDENTIFIED AND APPROVED. THE SOIL SHALL BE FREE OF VEGETABLE MATTER AND OTHER DELETERIOUS SUBSTANCE AND SHALL NOT CONTAIN ROCKS OR LUMPS HAVING A DIAMETER GREATER THAN SIX INCHES (6").
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REV	DATE	DESCRIPTION

06/27/2025
STATE OF TEXAS
MARY P. STEWART
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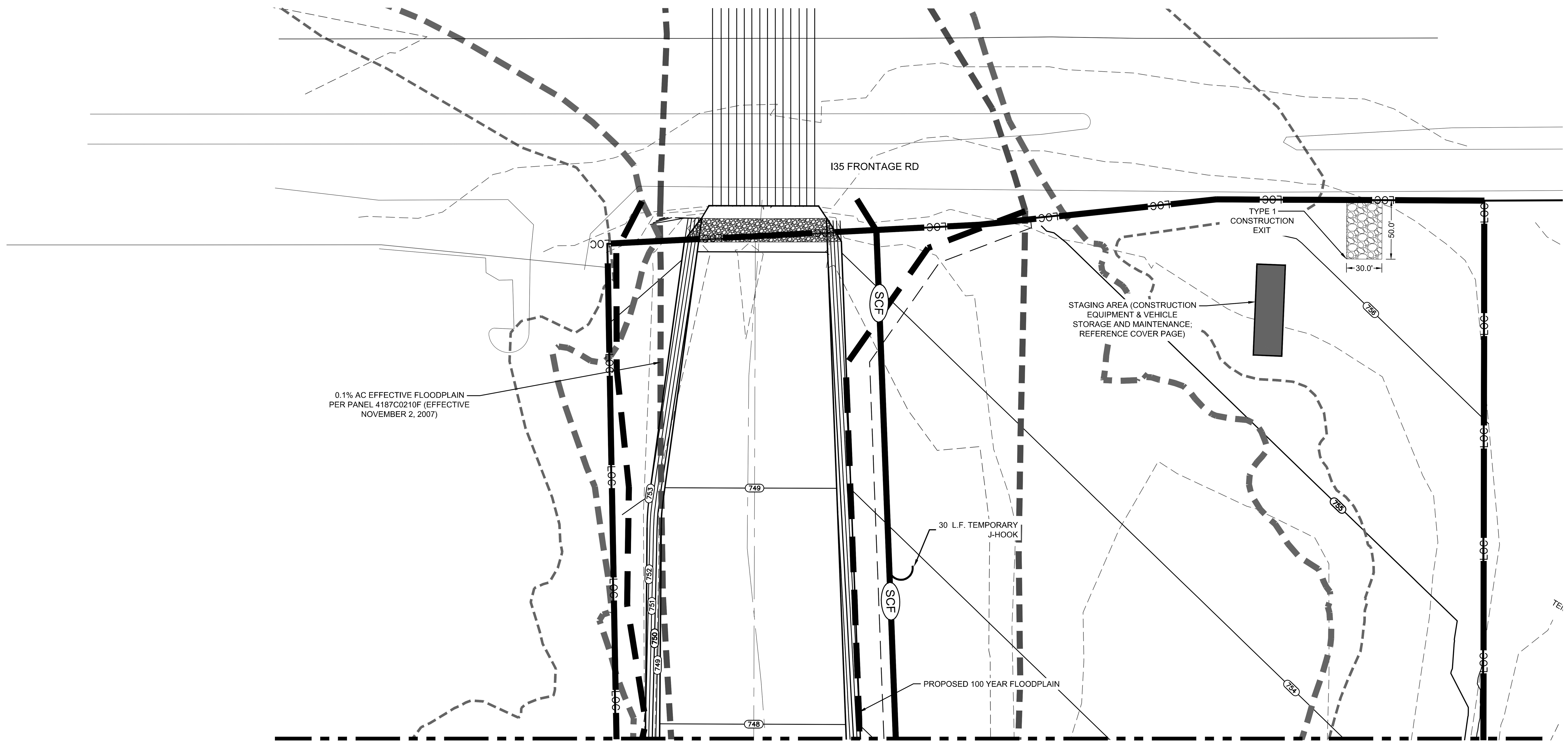
PROFESSIONAL ENGINEER

KCI TECHNOLOGIES, INC.
2806 W. BITTERS RD, SUITE 218
SAN ANTONIO, TEXAS 78248
PHONE: (210) 641-9999
FAX: (210) 641-6440
REGISTRATION #F-10573 / #101943-65

CHELSEA PARK II
GRADING PLAN

DRAFTING: N.O.	CHECK: C.P.
DESIGN: C.P.	CHECK: M.P.S.
SUBMITTAL PHASE:	
DATE:	6/27/2025
KCI JOB #:	762305304
SHEET:	4

Date: Jun 27, 2025, 9:58am User ID: Lance.Elling File: L:\develop\...



MATCH LINE "A": SEE SHEET 4

0 60' 120'
1" = 60'

LEGEND

- TEMPORARY SEDIMENT CONTROL FENCE — SCF
- TEMPORARY ROCK FILTER DAM — RFD
- TYPE 1 CONSTRUCTION EXIT
- CONCRETE WASHOUT PIT
- GRAVEL FILTER BAGS
- LIMITS OF CONSTRUCTION — LOC
- GRADING SLOPE ARROW
- PROPOSED STAGING AREA
- POST CONSTRUCTION SEDIMENT CONTROL FENCE (PHASE 2) — PSCF

NOTE:

CONTRACTOR TO ENSURE POSITIVE DRAINAGE AT UPSTREAM & DOWNSTREAM ENDS OF PROJECT AND THAT NO PONDING WILL OCCUR.

S.W.P.P.P. GENERAL NOTES

1. THE CONTROL MEASURES CONTAINED HEREON (AND AS FURTHER DESCRIBED BY THE STANDARD SPECIFICATIONS) SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE CONSTRUCTION CONTRACT TO ASSURE EFFECTIVE AND CONTINUOUS WATER POLLUTION CONTROL DURING CONSTRUCTION AND POST CONSTRUCTION PERIODS.

2. A RAIN GAUGE SHALL BE PROVIDED BY THE CONTRACTOR AND LOCATED AT THE PROJECT SITE. THE CONTRACTOR AND INSPECTOR WILL INSPECT THE ENTIRE PROJECT TO DETERMINE THE CONDITION OF THE CONTROL MEASURES. SEDIMENT WILL BE REMOVED AND DEVICES REPAIRED AS SOON AS PRACTICABLE BUT NO LATER THAN 7 DAYS AFTER THE SURROUNDING EXPOSED GROUND HAS DRIED SUFFICIENTLY TO PREVENT FURTHER DAMAGE BEING CAUSED BY REPAIR OPERATIONS.

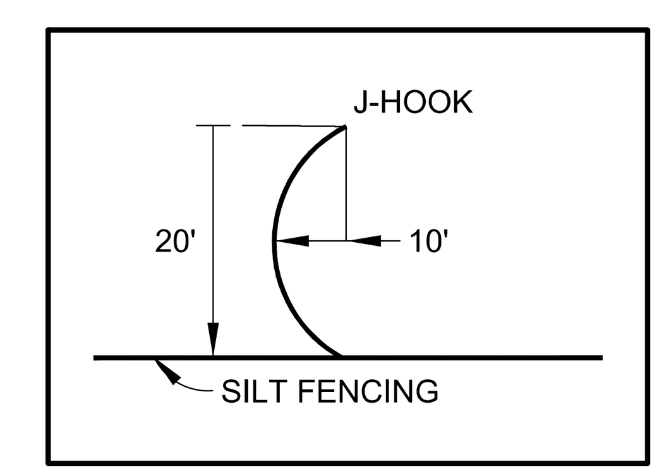
3. THE CONTRACTOR SHALL CLEAN PAVED SURFACES (ADJACENT TO THE CONSTRUCTION AREAS) AS NECESSARY TO REMOVE SEDIMENT WHICH HAS ACCUMULATED ON THE ROADWAY DUE TO STORMWATER FLOWS AND VEHICULAR TRAFFIC THROUGH AND ACROSS THE CONSTRUCTION SITE.

4. IN CASE OF FAILURE ON THE PART OF THE CONTRACTOR TO PREVENT AND CONTROL SOIL EROSION, SEDIMENTATION AND WATER POLLUTION WHICH MAY DEGRADE RECEIVING WATERS, THE DEVELOPER/OWNER RESERVES THE RIGHT TO EMPLOY OUTSIDE ASSISTANCE OR USE OTHER FORCES TO PROVIDE THE NECESSARY CORRECTIVE MEASURES. ALL COST (INCLUDING ENGINEERING) COST WILL BE DEDUCTED FROM ANY MONEYS DUE TO OR TO BECOME DUE TO THE CONTRACTOR.

5. UPON COMPLETION OF CONSTRUCTION AND THE INSTALLATION OF PERMANENT EROSION CONTROL METHODS, A FINAL EROSION CONTROL INSPECTION WILL BE PERFORMED AS PART OF ACCEPTANCE OF THE PROJECT BY THE DEVELOPER/OWNER. IN THE EVENT THAT THE PERMANENT EROSION CONTROL IS INADEQUATE DUE TO IMPROPER DESIGN OR INSTALLATION. THE PERMANENT EROSION CONTROL MEASURES
MUST BE CORRECTED OR REDESIGNED TO FUNCTION PROPERLY.

6. THE NOTICE OF INTENT (N.O.I.) SHALL BE SIGNED AND SUBMITTED BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO THE CONTRACTOR MOVING ONTO THE SITE.

7. THE CONTRACTOR SHALL SUBMIT A SIGNED NOTICE OF TERMINATION (N.O.T.)



J-HOOK DETAIL
SCALE: NTS

REV	DATE	DESCRIPTION

06/27/2025
STATE OF TEXAS
MARY P. STEWART
108905
LICENSED
PROFESSIONAL ENGINEER

KCI TECHNOLOGIES, INC.
2806 W. BITTERS RD. SUITE 218
SAN ANTONIO, TEXAS 78248
PHONE: (210) 641-9999
FAX: (210) 641-6440
REGISTRATION #F-10573 / #101943-65

KCI TECHNOLOGIES

CHELSEA PARK II
SEDIMENTATION & EROSION CONTROL PLAN

DRAFTING:	N.O.	CHECK:	C.P.
DESIGN:	C.P.	CHECK:	M.P.S.
SUBMITTAL PHASE:			
DATE:	6/27/2025		
KCI JOB #:	762305304		

SHEET:
5

0 60' 120'
1" = 60'

LEGEND

- TEMPORARY SEDIMENT CONTROL FENCE — SCF
- TEMPORARY ROCK FILTER DAM — RFD
- TYPE 1 CONSTRUCTION EXIT
- CONCRETE WASHOUT PIT
- GRAVEL FILTER BAGS
- LIMITS OF CONSTRUCTION — LOC
- GRADING SLOPE ARROW
- PROPOSED STAGING AREA
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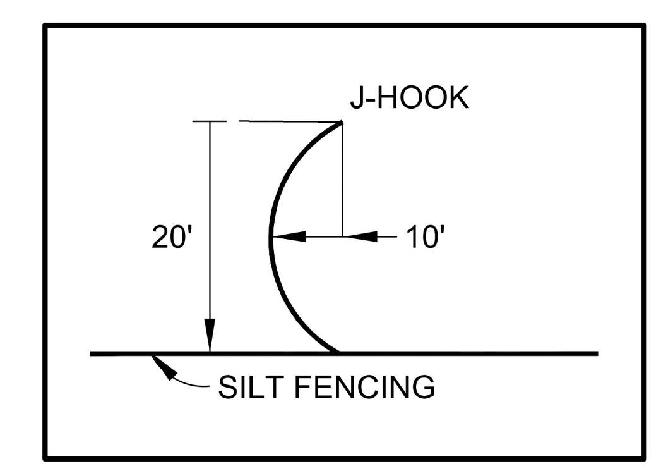

J-HOOK DETAIL

SCALE: NTS

REV	DATE	DESCRIPTION

06/27/2025
STATE OF TEXAS
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SAN ANTONIO, TEXAS 78248
PHONE: (210) 641-9999
FAX: (210) 641-6440
REGISTRATION #F-10573 / #101943-65

CHELSEA PARK II

SEDIMENTATION & EROSION CONTROL PLAN

DRAFTING: N.O.	CHECK: C.P.
DESIGN: C.P.	CHECK: M.P.S.
SUBMITTAL PHASE:	
DATE:	6/27/2025
KCI JOB #:	762305304
SHEET:	6

Date: Jun 27, 2025, 9:59am User ID: Lance.Elling File: L:\develop\proj_2023_kci\762305304_chelsea_park_ii-clomr-lomr\CADD\762305304 000 SWPP.dwg

SITE DESCRIPTION

PROJECT LIMITS: 32.06 acre unit located south-west of the Interstate 35 N, Selma, Texas.

LATITUDE 29°35'18.90"N LONGITUDE 98°17'36.85"W

PROJECT DESCRIPTION: Construction of flood plain improvements including: drainage improvements.

MAJOR SOIL DISTURBING ACTIVITIES: Soil disturbing activities will include preparing right-of-way clearing, and grubbing, grading, excavation. Erosion and sediment controls.

TOTAL PROJECT AREA: 32.06 AC

TOTAL AREA TO BE DISTURBED: 29.07 AC out of 32.06 AC (91%)

WEIGHTED RUNOFF COEFFICIENT (PRE-CONSTRUCTION): 0.35

WEIGHTED RUNOFF COEFFICIENT (POST-CONSTRUCTION): 0.35

EXISTING CONDITION OF SOIL & VEGETATIVE COVER AND % OF EXISTING VEGETATIVE COVER: The existing topsoil is dark greyish-brown silty clay. Existing Vegetation is 60% covered with underbrush.

NAME OF RECEIVING WATERS: The storm water will flow into the Dietz Creek Watershed.

EROSION AND SEDIMENT CONTROLS

SOIL STABILIZATION PRACTICES:

- ___ TEMPORARY SEEDING
- √ PERMANENT PLANTING, SODDING, OR SEEDING
- ___ MULCHING
- ___ SOIL RETENTION BLANKET
- ___ BUFFER ZONES
- ___ PRESERVATION OF NATURAL RESOURCES

OTHER: Disturbed areas on which construction activity has ceased (temporarily or permanently) shall be stabilized within 14 days unless activities are scheduled to resume and do within 21 days.

STRUCTURAL PRACTICES:

- √ SILT FENCES
- ___ HAY BALES
- ___ ROCK BERMS
- ___ DIVERSION, INTERCEPTOR, OR PERIMETER DIKES
- ___ DIVERSION, INTERCEPTOR, OR PERIMETER SWALES
- ___ DIVERSION DIKE AND SWALE COMBINATIONS
- ___ PIPE SLOPE DRAINS
- ___ PAVED FLUMES
- √ ROCK BEDDING AT CONSTRUCTION EXIT
- ___ TIMBER MATTING AT CONSTRUCTION EXIT
- √ CHANNEL LINERS
- ___ SEDIMENT TRAPS
- ___ SEDIMENT BASINS
- ___ STORM INLET SEDIMENT TRAP
- ___ STONE OUTLET STRUCTURES
- ___ CURBS AND GUTTERS
- ___ STORM SEWERS
- ___ VELOCITY CONTROL DEVICES

OTHER:

NARRATIVE - SEQUENCE OF CONSTRUCTION (STORM WATER MANAGEMENT) ACTIVITIES:
The order of activities will be as follows:

1. Install temporary control, establish limits of construction, install silt fence, construction entrance/exit, and concrete wash out area.
2. Clear and grub.
3. Excavate and Embank for flood plain.
4. When all construction activity is complete and the site is stabilized and approved by the project engineer, remove all temporary structural controls and stabilize areas disturbed by their removal.
5. The contractor is responsible for implementing and maintaining the storm water pollution prevention plan.

STORM WATER MANAGEMENT: Storm water drainage will be conveyed by existing drainage structures.

NON-STORM WATER DISCHARGE: Any water discharged on the site for approved non-storm water discharges, shall be per permit conditions. The source of the non-storm water water is from the San Antonio Water System and should have no detrimental effect on the site or downstream from the site.

OTHER EROSION AND SEDIMENT CONTROLS:

MAINTENANCE: All erosion and sediment controls will be maintained in good working order. If a repair is necessary, it will be done at the earliest date possible, but no later than 7 calendar days after the surrounding exposed ground has dried sufficiently to prevent further damage from heavy equipment. The areas adjacent to creeks and drainage ways shall have priority followed by devices protecting storm sewer inlets.

INSPECTION: An inspection will be performed by a designated inspector every week as well as after every half inch or more of rain (as recorded on a non-freezing rain management regulations. All trash and construction debris from the site will be deposited in the dumpster. The dumpster will be emptied as necessary or as required by local gauge to be located at the Project Site). An inspection and Maintenance Report will be made per each Inspection. Based on the inspection results, the controls shall be located at the Project Site). An inspection and Maintenance Report will be made per each revised per the inspection report.

WASTE MATERIALS: All waste materials will be collected and stored in a secured metal dumpster. The dumpster will meet all state and local city solid waste regulations and the trash will be hauled to a local dump. No construction waste material will be buried on site.

HAZARDOUS WASTE (INCLUDING SPILL REPORTING): At a minimum, any products in the following categories are considered to be hazardous: paints, acids for cleaning masonry surfaces, cleaning solvents, asphalt products, chemical additives for soil stabilization or concrete curing compounds and additives. In the event of a hazardous material spill, the spill coordinator shall be contacted immediately.

SANITARY WASTE: All sanitary waste will be collected from portable units as necessary, or as required by local regulations by a Licensed Sanitary Waste Management Contractor.

OFFSITE VEHICLE TRACKING:

- ___ HAUL ROADS DAMPENED FOR DUST CONTROL
- ___ LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN
- √ EXCESS DIRT ON ROAD REMOVED DAILY
- √ STABILIZED CONSTRUCTION ENTRANCE

PERMITS:

REMARKS: Disposal areas, stockpiles, and haul roads shall be constructed in a manner that will minimize and control the amount of sediment that may enter receiving waters. Disposal areas shall not be located in any wetland, waterbody or streambed. Construction staging areas and vehicle maintenance areas shall be constructed by the Contractor in a manner to minimize the runoff of pollutants. All waterways shall be cleared as soon as practicable of temporary embankment, temporary bridges, matting, falsework, piling, debris or other obstructions placed during construction operations that are not a part of the finished work.

OWNERS CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SIGNATURE ____________ DATE ____________

CONTRACTOR'S CERTIFICATION

I certify under penalty of law that I understand the terms and conditions of the general Texas Pollutant Discharge Elimination System (TPDES) permit that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification plan.

SIGNATURE (CONTRACTOR) ____________ DATE ____________

REV	DATE	DESCRIPTION

06/27/2025

STATE OF TEXAS
MARY P. STEWART
108905
LICENSED
PROFESSIONAL ENGINEER

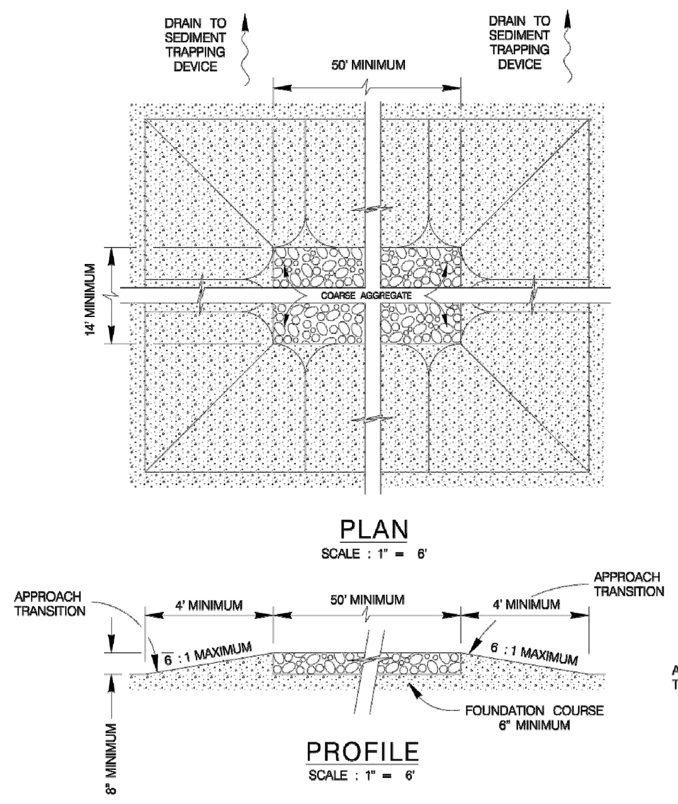
KCI TECHNOLOGIES, INC.
2806 W. BITTERS RD, SUITE 218
SAN ANTONIO, TEXAS 78248
PHONE: (210) 641-9999
FAX: (210) 641-6440
REGISTRATION #F-10573 / #101943-65

KCI TECHNOLOGIES

CHELSEA PARK II

SEDIMENTATION & EROSION CONTROL NARRATIVE

DRAFTING: N.O.	CHECK: C.P.
DESIGN: C.P.	CHECK: M.P.S.
SUBMITTAL PHASE:	
DATE: 6/27/2025	
KCI JOB #: 762305304	
SHEET: 7	



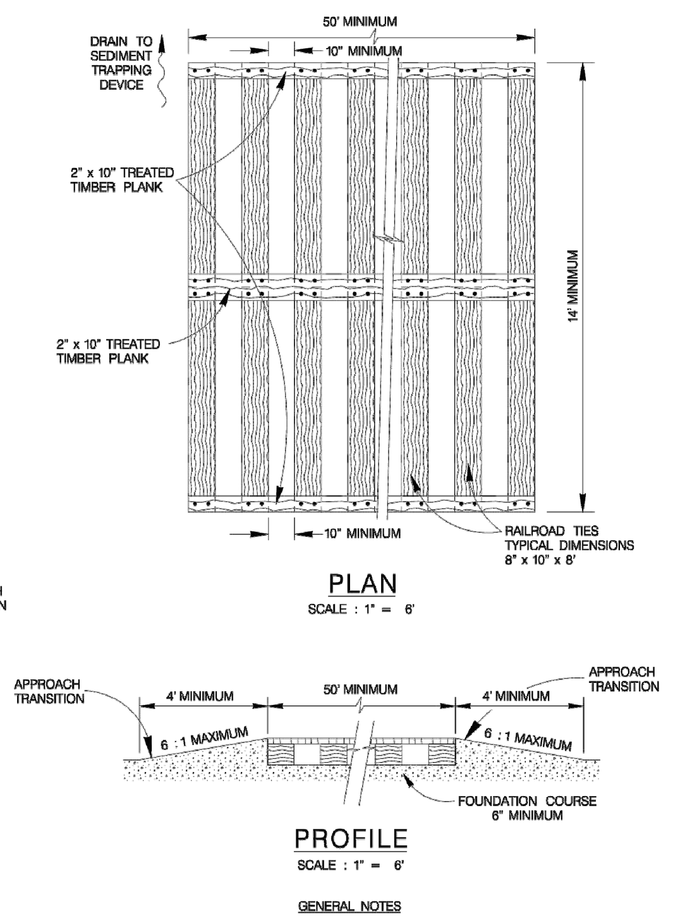
PLAN
SCALE : 1" = 8'

PROFILE
SCALE : 1" = 6'

GENERAL NOTES

1. THE LENGTH OF THE TYPE 1 CONSTRUCTION EXIT SHALL BE AS INDICATED ON THE PLANS, BUT NOT LESS THAN 50'.
2. THE COARSE AGGREGATE SHOULD BE OPEN GRADED WITH A SIZE OF 4" TO 8".
3. THE APPROACH TRANSITIONS SHOULD BE NO STEEPER THAN 6 : 1 AND CONSTRUCTED AS DIRECTED BY THE ENGINEER.
4. THE CONSTRUCTION EXIT FOUNDATION COURSE SHALL BE FLEXIBLE BASE, BITUMINOUS CONCRETE, PORTLAND CEMENT CONCRETE OR OTHER MATERIAL AS APPROVED BY THE ENGINEER.
5. THE CONSTRUCTION EXIT SHALL BE GRADED TO ALLOW DRAINAGE TO A SEDIMENT TRAPPING DEVICE.
6. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

CONSTRUCTION EXIT – TYPE 1



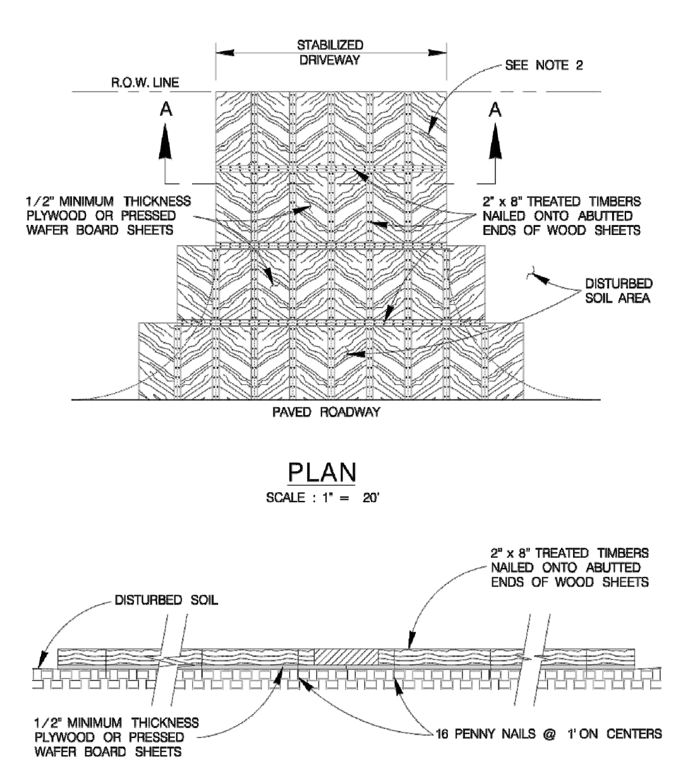
PLAN
SCALE : 1" = 6'

PROFILE
SCALE : 1" = 6'

GENERAL NOTES

1. THE LENGTH OF THE TYPE 2 CONSTRUCTION EXIT SHALL BE AS INDICATED ON THE PLANS, BUT NOT LESS THAN 50'.
2. THE TREATED TIMBER PLANKS SHALL BE ATTACHED TO THE RAILROAD TIES WITH 1/2" x 6" MIN. LAG BOLTS. OTHER FASTENERS MAY BE USED AS APPROVED BY THE ENGINEER.
3. THE TREATED TIMBER PLANKS SHALL BE #2 GRADE MIN., AND SHOULD BE FREE FROM LARGE AND LOOSE KNOTS.
4. THE APPROACH TRANSITIONS SHOULD BE NO STEEPER THAN 6 : 1 AND CONSTRUCTED AS DIRECTED BY THE ENGINEER.
5. THE CONSTRUCTION EXIT FOUNDATION COURSE SHALL BE FLEXIBLE BASE, BITUMINOUS CONCRETE, PORTLAND CEMENT CONCRETE OR OTHER MATERIAL AS APPROVED BY THE ENGINEER.
6. THE CONSTRUCTION EXIT SHOULD BE GRADED TO ALLOW DRAINAGE TO A SEDIMENT TRAPPING DEVICE.
7. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

CONSTRUCTION EXIT – TYPE 2



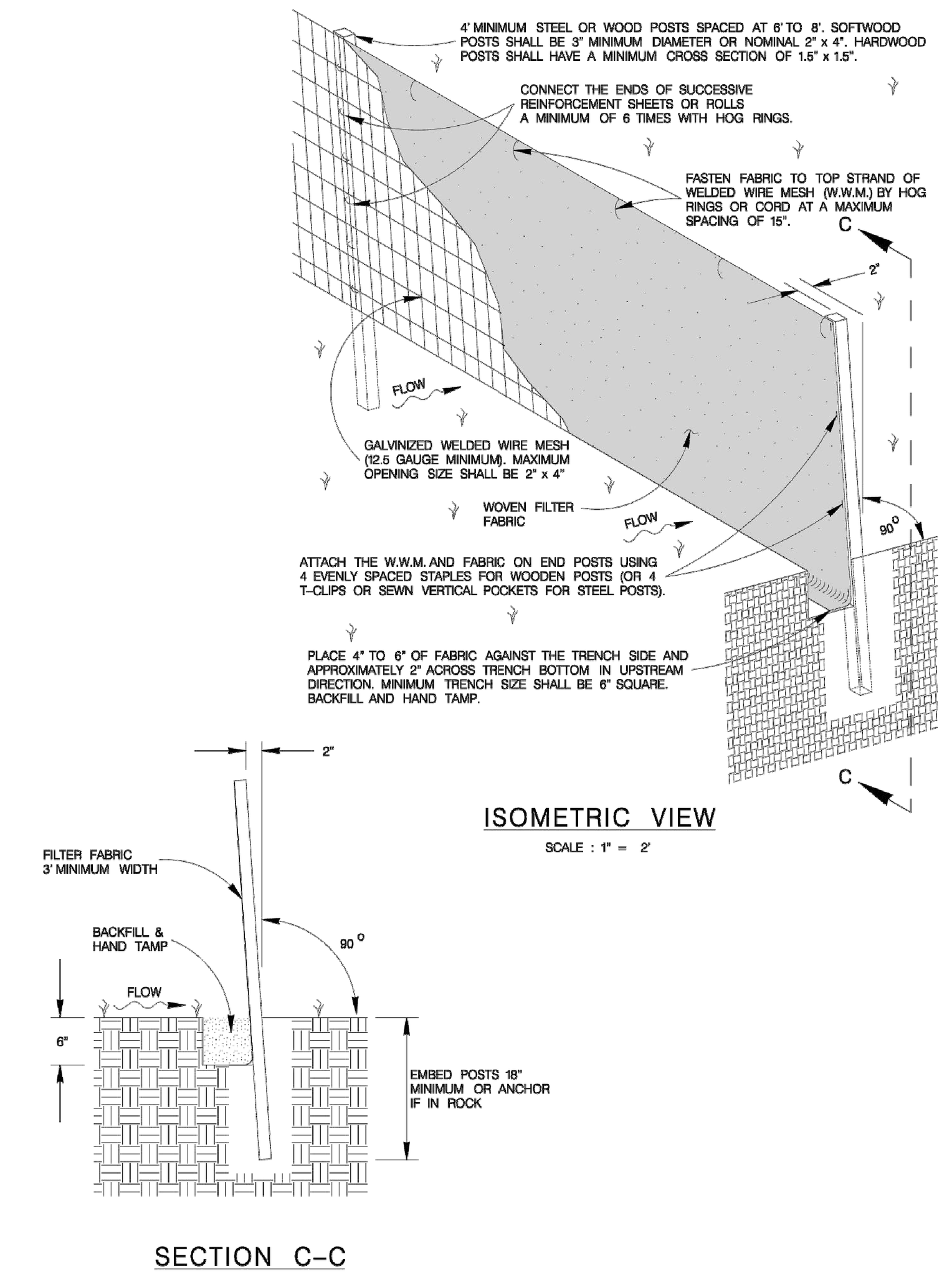
PLAN
SCALE : 1" = 20'

SECTION A–A
SCALE : 1" = 2'

GENERAL NOTES

1. THE LENGTH OF THE TYPE 3 CONSTRUCTION EXIT SHALL BE AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
2. THE TYPE 3 CONSTRUCTION EXIT MAY BE CONSTRUCTED FROM OPEN GRADED CRUSHED STONE WITH A SIZE OF 2 TO 4 INCHES SPREAD A MINIMUM OF 4 INCHES THICK TO THE LIMITS SHOWN ON THE PLANS.
3. THE TREATED TIMBER PLANKS SHALL BE #2 GRADE MIN., AND SHOULD BE FREE FROM LARGE AND LOOSE KNOTS.
4. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

CONSTRUCTION EXIT – TYPE 3



ISOMETRIC VIEW
SCALE : 1" = 2'

SECTION C–C
SCALE : 1" = 2'

SEDIMENT CONTROL FENCE USAGE GUIDELINES

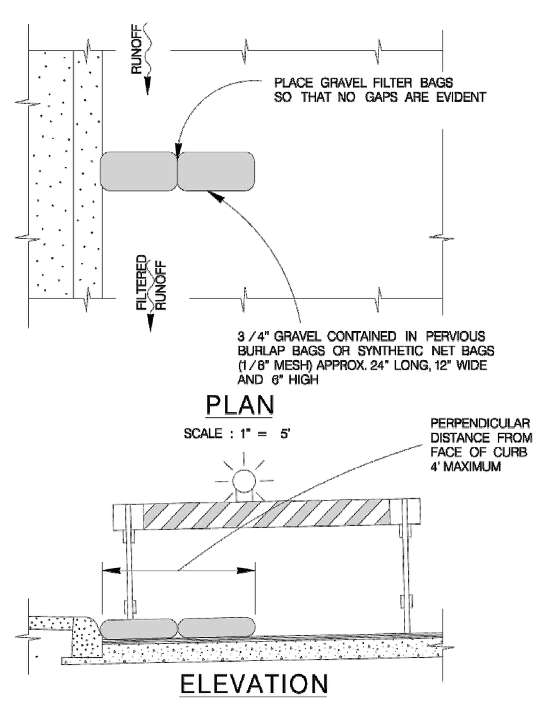
A SEDIMENT CONTROL FENCE MAY BE CONSTRUCTED NEAR THE DOWNSTREAM PERIMETER OF A DISTURBED AREA ALONG A CONTOUR TO INTERCEPT SEDIMENT FROM OVERLAND RUN-OFF. A 2 YEAR STORM FREQUENCY MAY BE USED TO CALCULATE THE FLOW RATE TO BE FILTERED.

SEDIMENT CONTROL FENCE SHOULD BE SIZED TO FILTER A MAXIMUM FLOW THRU RATE OF 100 GPM /FT SQUARED. SEDIMENT CONTROL FENCE IS NOT RECOMMENDED TO CONTROL EROSION FROM A DRAINAGE AREA LARGER THAN 2 ACRES.

GENERAL NOTES

1. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

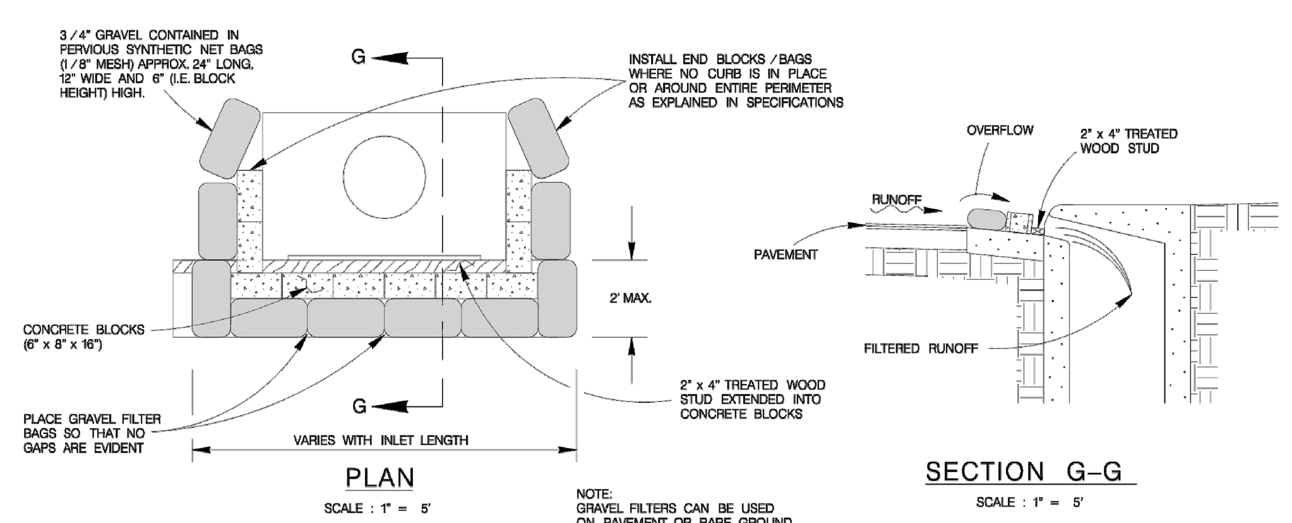
TEMPORARY SEDIMENT CONTROL FENCE



PLAN
SCALE : 1" = 6'

ELEVATION
SCALE : 1" = 3'

GRAVEL FILTER BAGS



PLAN
SCALE : 1" = 5'

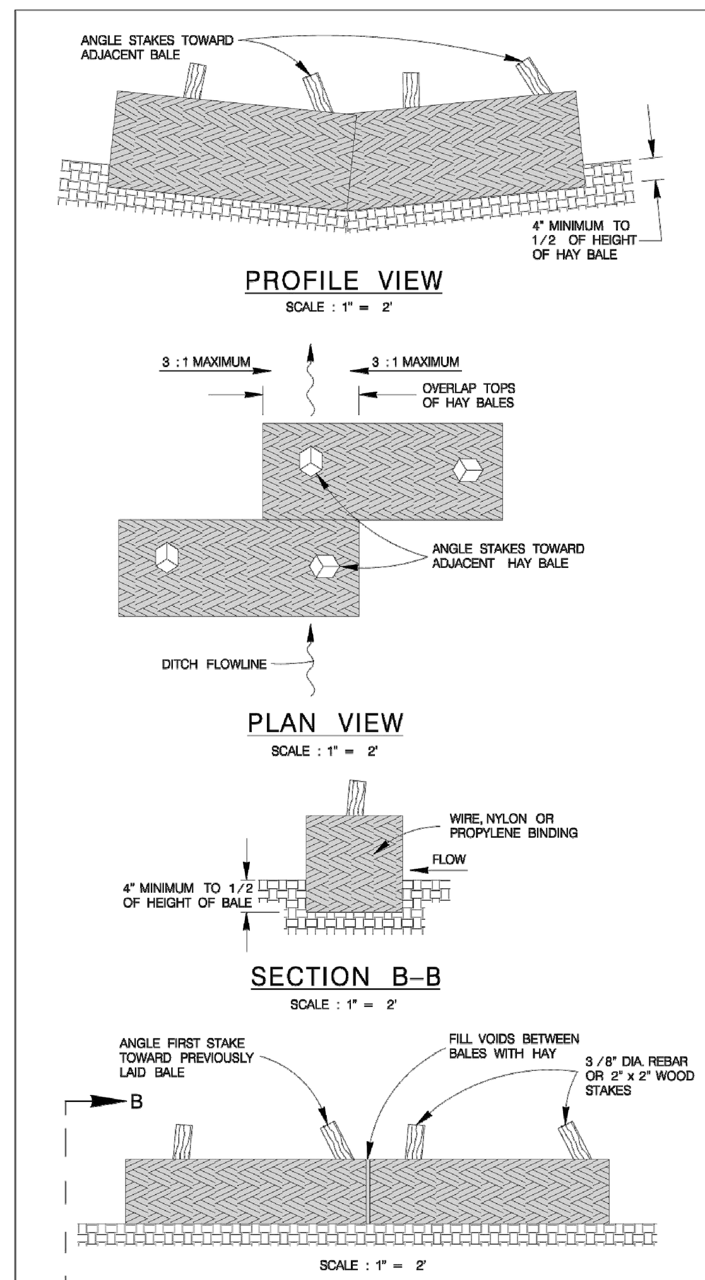
SECTION G–G
SCALE : 1" = 5'

CURB INLET GRAVEL FILTER

JANUARY 2005

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

TEMPORARY EROSION, SEDIMENT & WATER POLLUTION CONTROL MEASURES STANDARDS 1



PROFILE VIEW
SCALE : 1" = 2'

PLAN VIEW
SCALE : 1" = 2'

SECTION B–B
SCALE : 1" = 2'

SCALE : 1" = 2'

BALED HAY USAGE GUIDELINES

A BAILED HAY INSTALLATION MAY BE CONSTRUCTED NEAR THE DOWNSTREAM PERIMETER OF A DISTURBED AREA ALONG A CONTOUR TO INTERCEPT SEDIMENT FROM OVERLAND RUNOFF. A TWO YEAR STORM FREQUENCY MAY BE USED TO CALCULATE THE FLOW RATE TO BE FILTERED. THE INSTALLATION SHOULD BE SIZED TO FILTER A MAXIMUM FLOW THRU RATE OF 5 GPM /FT SQUARED OF CROSS SECTIONAL AREA. BALED HAY MAY BE USED AT THE FOLLOWING LOCATIONS:

1. WHERE THE RUNOFF APPROACHING THE BALED HAY FLOWS OVER DISTURBED SOIL FOR LESS THAN 100'. IF THE SLOPE OF THE DISTURBED SOIL EXCEEDS 10 %, THE LENGTH OF SLOPE UPSTREAM OF THE BAILED HAY SHOULD BE LESS THAN 50'.
2. WHERE THE INSTALLATION WILL BE REQUIRED FOR LESS THAN 3 MONTHS.
3. WHERE THE CONTRIBUTING DRAINAGE AREA IS LESS THAN 1/2 ACRE.

FOR BALED HAY INSTALLATIONS IN SMALL DITCHES, THE FOLLOWING ADDITIONAL CONDITIONAL CONSIDERATIONS APPLY:

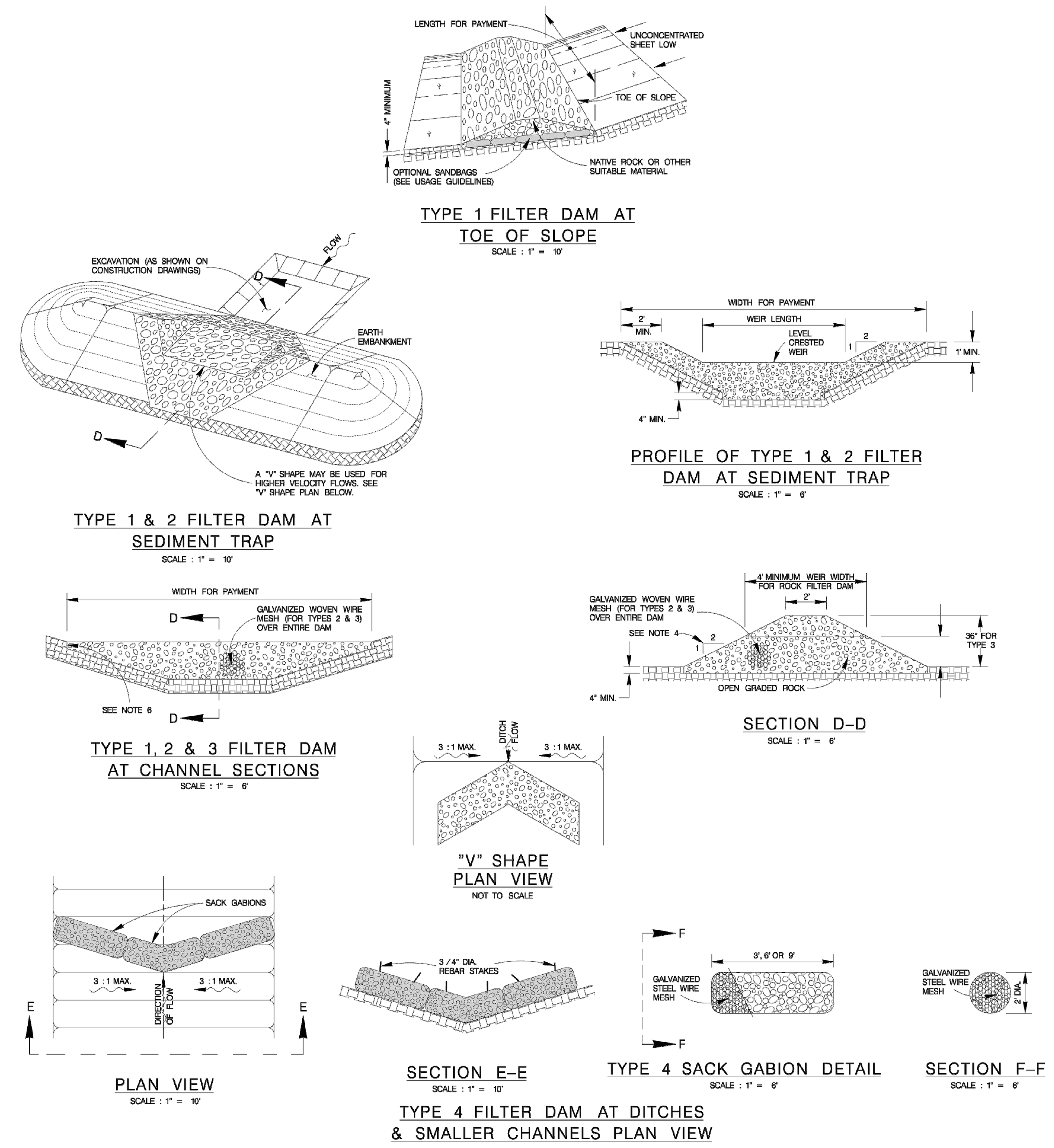
1. THE DITCH SIDESLOPES SHOULD BE GRADED AS FLAT AS POSSIBLE TO MAXIMIZE THE DRAINAGE FLOW RATE THRU THE HAY.
2. THE DITCH SHOULD BE GRADED LARGE ENOUGH TO CONTAIN THE OVERLAPPING DRAINAGE WHEN SEDIMENT HAS FILLED TO THE TOP OF THE BAILED HAY.

BALES SHOULD BE REPLACED USUALLY EVERY 2 MONTHS OR MORE OFTEN DURING WET WEATHER WHEN LOSS OF STRUCTURAL INTERGRITY IS ACCELERATED.

GENERAL NOTES

1. HAY BALES SHALL BE A MINIMUM OF 30" IN LENGTH AND WEIGH A MINIMUM OF 50 LBS.
2. HAY BALES SHALL BE BOUND BY EITHER WIRE OR NYLON OR POLYPROPYLENE STRING. THE BALES SHALL BE COMPOSED ENTIRELY OF VEGETABLE MATTER.
3. HAY BALES SHALL BE EMBEDDED IN THE SOIL A MININMUM OF 4" AND, WHERE POSSIBLE, ONE-HALF THE HEIGHT OF THE BALE.
4. HAY BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES. THE BALES SHALL BE PLACED WITH BINDINGS PARALLEL TO THE GROUND.
5. HAY BALES SHALL BE SECURELY ANCHORED IN PLACE WITH 3/8" DIA. REBAR OR 2" x 2" WOOD STAKES DRIVEN THROUGH THE BALES. THE FIRST STAKE SHALL BE ANGLED TOWARDS THE PREVIOUSLY LAID BALE TO FORCE THE BALES TOGETHER.
6. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

BALED HAY FOR EROSION CONTROL



TYPE 1 FILTER DAM AT TOE OF SLOPE

TYPE 1 & 2 FILTER DAM AT SEDIMENT TRAP

PROFILE OF TYPE 1 & 2 FILTER DAM AT SEDIMENT TRAP

TYPE 1, 2 & 3 FILTER DAM AT CHANNEL SECTIONS

SECTION D–D

"V" SHAPE PLAN VIEW
NOT TO SCALE

PLAN VIEW

SECTION E–E

TYPE 4 SACK GABION DETAIL

SECTION F–F

TYPE 4 FILTER DAM AT DITCHES & SMALLER CHANNELS PLAN VIEW

ROCK FILTER DAMS

ROCK FILTER DAM USAGE GUIDELINES

ROCK FILTER DAMS SHOULD BE CONSTRUCTED DOWNSTREAM FROM DISTURBED AREAS TO INTERCEPT SEDIMENT FROM OVERLOAD RUNOFF AND /OR CONCENTRATED FLOW. THE DAMS SHOULD BE SIZED TO FILTER A MAXIMUM FLOW THRU RATE OF 60 GPM /FT SQUARED OF CROSS SECTIONAL AREA.. A 2 YEAR STORM FREQUENCY MAY BE USED TO CALCULATE THE FLOW RATE.

TYPE 1 (18" HIGH WITH NO WIRE MESH) :

TYPE 1 MAY BE USED AT THE TOE OF SLOPES, AROUND INLETS, IN SMALL DITCHES AND AT DIKE OR SWALE OUTLETS. THIS TYPE OF DAM IS RECOMMENDED TO CONTROL EROSION FROM A DRAINAGE AREA OF 5 ACRES OR LESS. TYPE 1 MAY NOT BE USED IN CONCENTRATED HIGH VELOCITY FLOWS (APPROXIMATELY 8 FT./SEC. OR MORE) IN WHICH AGGREGATE WASH OUT MAY OCCUR. SANDBAGS MAY BE USED AT THE EMBEDDED FOUNDATION (4" DEEP MIN.) FOR BETTER FILTERING EFFICIENCY OF LOW FLOWS IF CALLED FOR ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

TYPE 2 (18" HIGH WITH WIRE MESH) :

TYPE 2 MAY BE USED IN DITCHES AND AT DIKE OR SWALE OUTLETS.

TYPE 3 (36" HIGH WITH WIRE MESH) :

TYPE 3 MAY BE USED IN STREAM FLOW AND SHOULD BE SECURED TO THE STREAM BED.

TYPE 4 (SACK GABIONS) :

TYPE 4 MAY BE USED IN DITCHES AND SMALLER CHANNELS TO FORM AN EROSION CONTROL DAM.

GENERAL NOTES

1. IF SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER, FILTER DAMS SHOULD BE PLACED NEAR THE TOE OF SLOPES WHERE EROSION IS ANTICIPATED, UPSTREAM AND / OR DOWNSTREAM AT DRAINAGE STRUCTURES, AND IN ROADWAY DITCHES AND CHANNELS TO COLLECT SEDIMENT.
2. MATERIALS (AGGREGATE, WIRE MESH, SANDBAGS, ETC.) SHALL BE AS INDICATED BY THE SPECIFICATION FOR ROCK FILTER DAMS FOR EROSION AND SEDIMENTATION CONTROL.
3. THE ROCK FILTER DAM DIMENSIONS SHALL BE AS INDICATED ON THE STORM WATER POLLUTION PREVENTION PLANS.
4. SIDE SLOPES SHOULD BE 2 : 1 OR FLATTER. DAMS WITHIN THE SAFETY ZONE SHALL HAVE SIDE SLOPES OF 6 : 1 OR FLATTER.
5. MAINTAIN A MINIMUM OF 1' BETWEEN TOP OF ROCK FILTER DAM WEIR AND TOP OF EMBANKMENT FOR FILTER DAMS AT SEDIMENT TRAPS.
6. FILTER DAMS SHOULD BE EMBEDDED A MINIMUM OF 4" INTO THE EXISTING GROUND.
7. THE SEDIMENT TRAP FOR PONDING OF SEDIMENT LADEN RUNOFF SHALL BE OF THE DIMENSIONS SHOWN ON THE PLANS.
8. ROCK FILTER DAM TYPES 2 & 3 SHALL BE SECURED WITH 20 GAUGE GALVANIZED WOVEN WIRE MESH WITH 1" DIAMETER HEXAGONAL OPENINGS. THE AGGREGATE SHALL BE PLACED ON THE MESH TO THE HEIGHT AND SLOPES SPECIFIED. THE MESH SHALL BE FOLDED AT THE UPSTREAM SIDE OVER THE AGGREGATE AND TIGHTLY SECURED TO ITSELF ON THE DOWNSTREAM SIDE USING WIRE TIES OR HOG RINGS. IN STREAM USE, THE MESH SHOULD BE SECURED OR STAKED TO THE STREAM BED PRIOR TO AGGREGATE PLACEMENT.
9. SACK GABIONS SHOULD BE STAKED DOWN WITH 3/4" DIA. REBAR STAKES.
10. FLOW OUTLET SHOULD BE ONTO A STABILIZED AREA (VEGETATION, ROCK, ETC.).
11. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

JANUARY 2005

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

TEMPORARY EROSION, SEDIMENT & WATER POLLUTION CONTROL MEASURES STANDARDS 2

CHELSEA PARK II
SEDIMENTATION & EROSION CONTROL DETAILS

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SAN ANTONIO, TEXAS 78248
PHONE: (210) 641-9999
FAX: (210) 641-6440
REGISTRATION #F-10573 / #10194365

06/27/2025
STATE OF TEXAS
MARY P. STEWART
108905
LICENSED PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION

DRAFTING: N.O.	CHECK: C.P.
DESIGN: C.P.	CHECK: M.P.S.
SUBMITTAL PHASE:	
DATE:	6/27/2025
KCI JOB #:	762305304
SHEET:	8