

THE COMMONS AT HIGHLAND HEIGHTS

CITY OF HIGHLAND HEIGHTS, CAMPBELL COUNTY, KENTUCKY

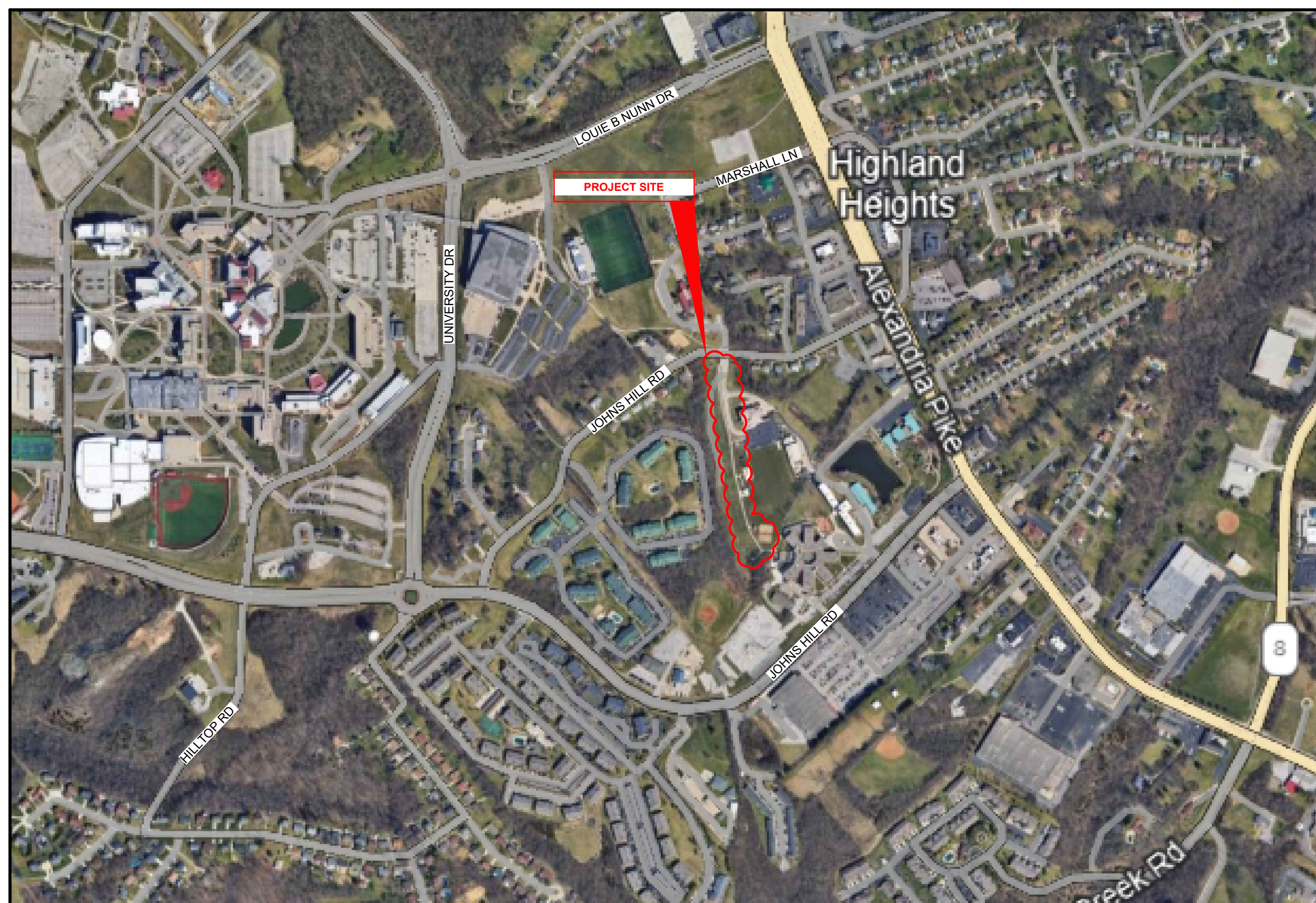
241829



VICINITY MAP

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CITY OF HIGHLAND HEIGHTS OFFICIALS	
MAYOR	GREG MEYERS
CITY CLERK	JEANNE PETTIT
CITY ADMINISTRATOR	MICHAEL GIFFEN
CITY COUNCIL MEMBERS	DEB BALL R. ALEX BRAMEL JOHN BRAUN GARY CHINN RENE HEINRICH JOHN HOFFERT
PUBLIC WORKS DIRECTOR	STEVE LEHMAN



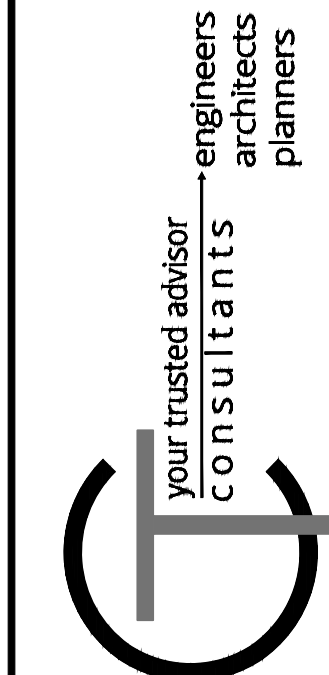
SITE MAP

K.T.C. SPECIFICATIONS

THE LATEST STANDARD SPECIFICATIONS OF THE KENTUCKY DEPARTMENT OF TRANSPORTATION CABINET, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS THERETO.

SOURCE OF BOUNDARY INFORMATION

THE BOUNDARY INFORMATION SHOWN ON THESE PLANS IS BASED UPON CAMPBELL COUNTY G.I.S. MAPPING AND DOES NOT REPRESENT AN ACTUAL FIELD BOUNDARY SURVEY BY CT CONSULTANTS, INC.



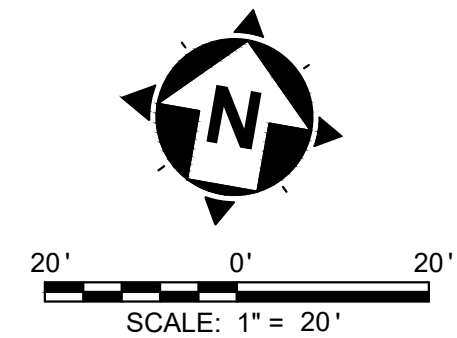
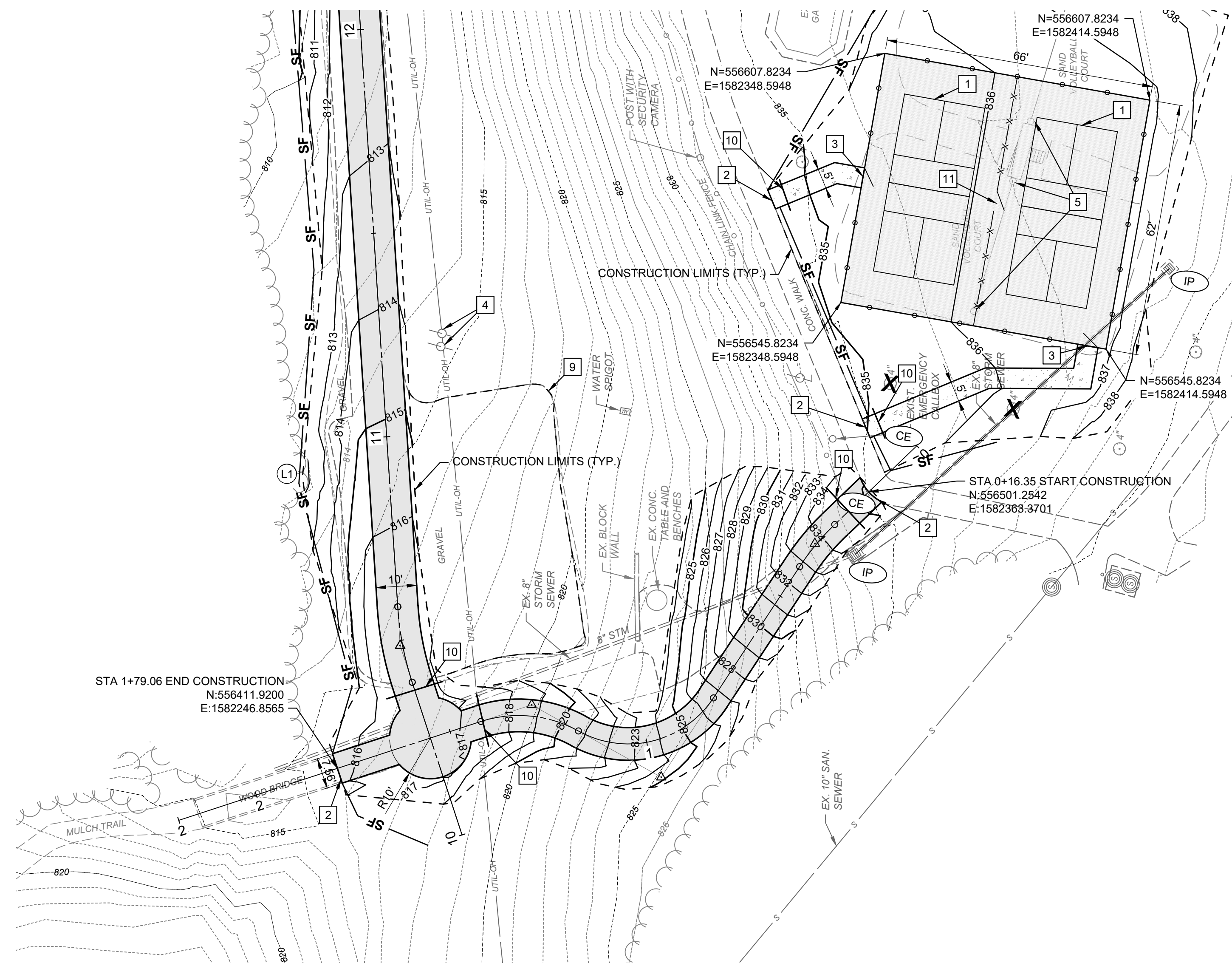
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ISSUE DATE:	10/29/2024			
SCALE:	AS SHOWN			
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**THE COMMONS AT HIGHLAND HEIGHTS
SHARED USE PATH
HIGHLAND HEIGHTS, KY**

TITLE SHEET

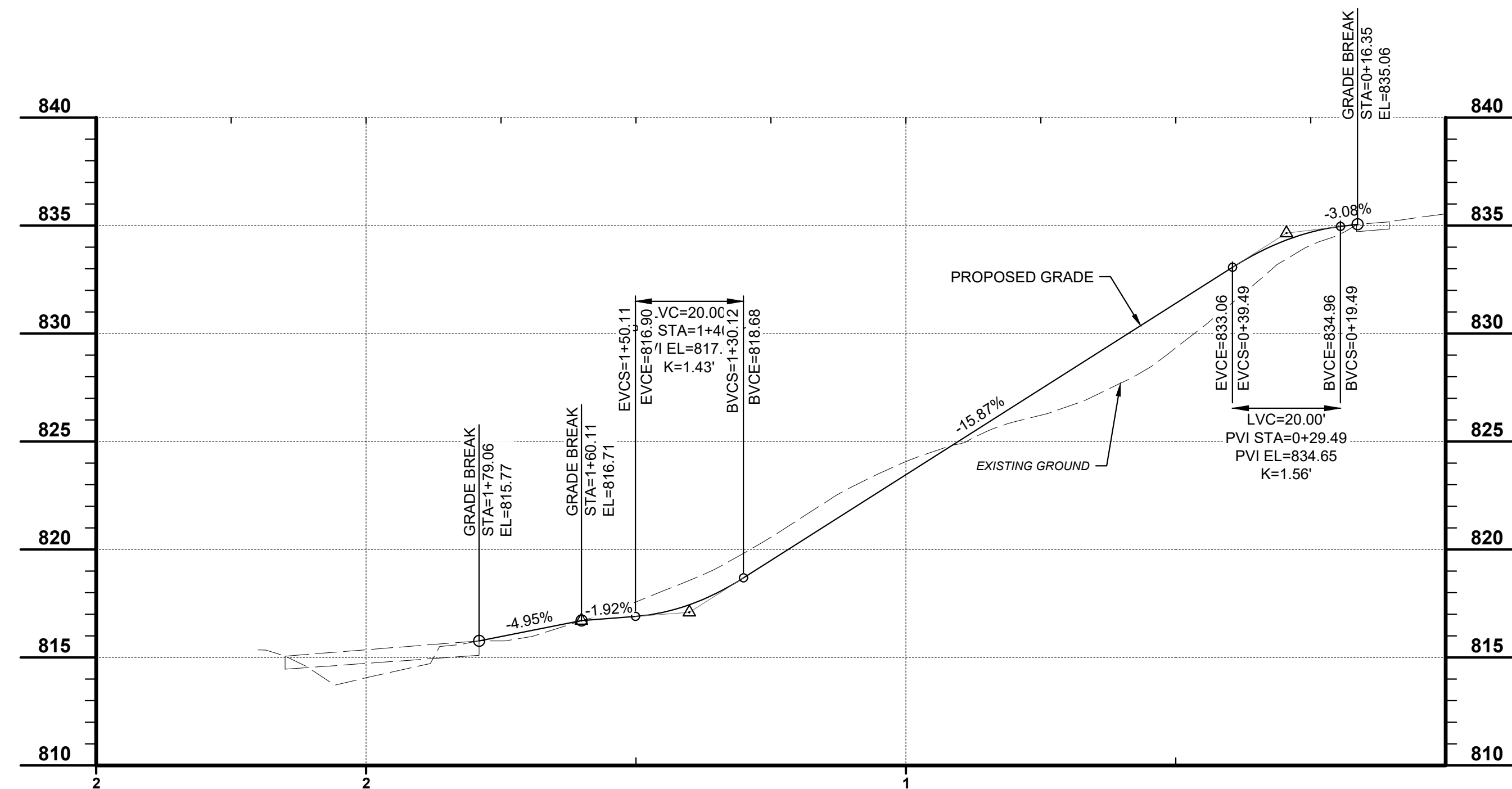
PROJECT NO.	241829
DISCIPLINE	CIVIL
SHEET NAME	TTL
SHEET	OF
C1	C11

ENGINEER _____ P.E. # _____



STA 1+79.06 END CONSTRUCTION
N:556411.9200
E:1582246.8565

STA 0+16.35 START CONSTRUCTION
N:556501.2542
E:1582363.3701



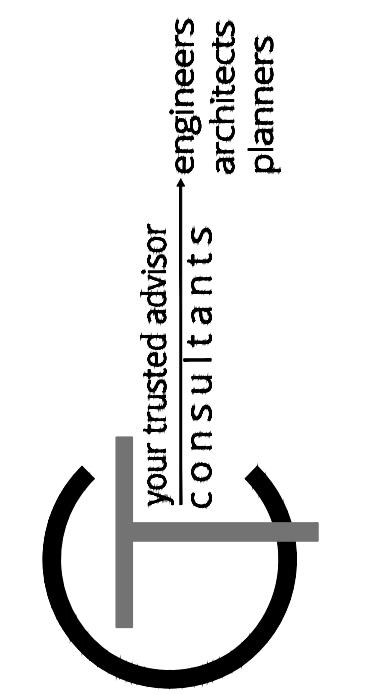
PROFILE
H: 1" = 20'
V: 1" = 5'

GENERAL CONSTRUCTION NOTES	
1	2" WIDE PICKLE BALL COURT MARKINGS. SEE DETAIL SHEET.
2	TIE INTO EXISTING SIDEWALK OR TRAIL.
3	10' HIGH, 5' WIDE CHAIN LINK GATE.
4	PROTECT EXISTING POWER POLE.
5	REMOVE EXISTING VOLLEYBALL POLES AND STAND.
6	INSTALL MODULAR BLOCK RETAINING WALL. SEE DETAIL SHEET. INSTALL WOOD SPLIT RAIL FENCE AT TOP OF WALL.
7	INSTALL ENTRANCE CURB AND GUTTER. SEE DETAIL SHEET.
8	INSTALL 6"x36" REMOVABLE BOLLARD WITH FLUSH MOUNT EMBEDMENT SLEEVE. CONTRACTOR TO PROVIDE SHOP DRAWING.
9	REMOVE 12" CRUSHED AGGREGATE TO USE FOR FILL ALONG SHARED USE PATH. REPLACE AGGREGATE WITH EXCAVATED MATERIALS FROM REMOVED VOLLEYBALL COURTS. ENSURE POSITIVE DRAINAGE ON FINISHED GRADE.
10	INSTALL 2" CONDUIT UNDER PAVEMENT FOR FUTURE LIGHTING.
11	4' HIGH, 5' WIDE CHAIN LINK GATE.

STORM SEWER CONSTRUCTION NOTES	
(D)	CONSTRUCT CATCH BASIN PER DETAIL SHEET.
(D2)	INSTALL FLARED END SECTION WITH ROCK CHANNEL PROTECTION. SEE DETAILS.

LANDSCAPING CONSTRUCTION NOTES	
(L)	PROTECT EXISTING TREES.

HATCH LEGEND	
	SHARED USE PATH, SEE DETAIL
	PICKLEBALL COURT, SEE DETAIL
	WOOD SPLIT RAIL FENCE
	SILT FENCE, SEE DETAIL

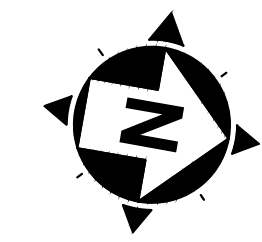


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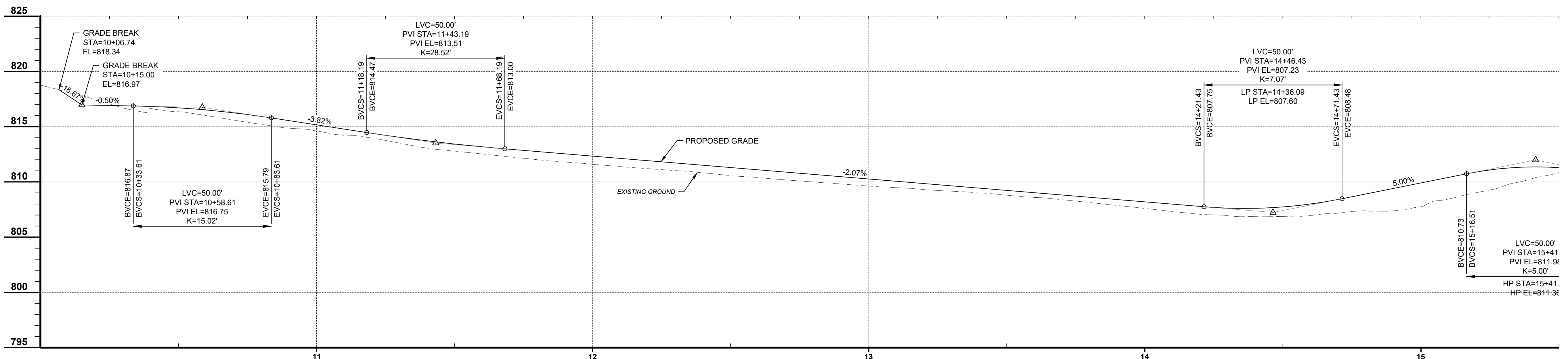
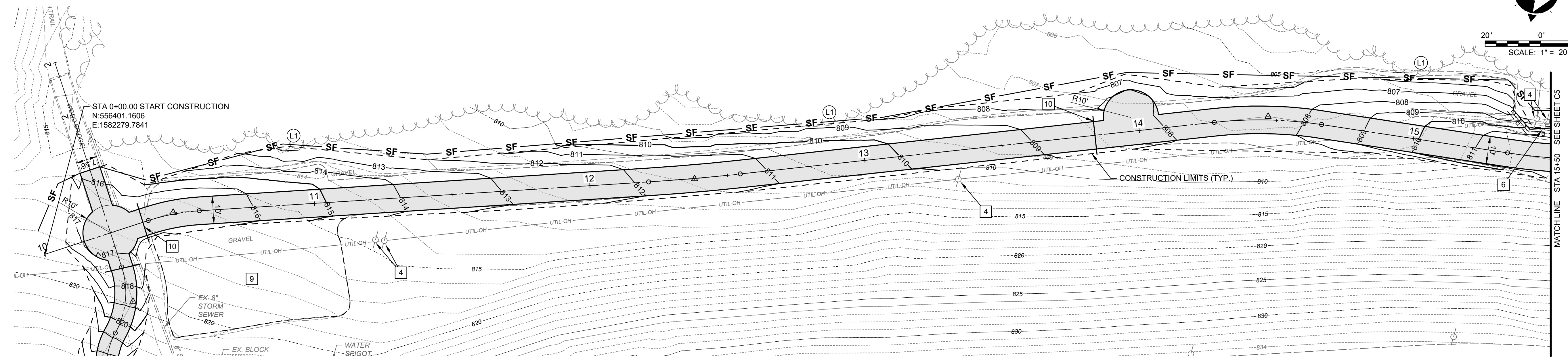
**THE COMMONS AT HIGHLAND HEIGHTS
SHARED USE PATH
HIGHLAND HEIGHTS, KY
SHORT SHARED USE PATH
PLAN & PROFILE**

PROJECT NO.	241829
DISCIPLINE	CIVIL
SHEET NAME	PNP1
SHEET	OF
C3	C11





SCALE: 1" = 20'



PROFILE
H: 1" = 20'
V: 1" = 5'

GENERAL CONSTRUCTION NOTES

- 1 2" WIDE PICKLE BALL COURT MARKINGS. SEE DETAIL SHEET.
- 2 TIE INTO EXISTING SIDEWALK OR TRAIL.
- 3 10' HIGH, 5' WIDE CHAIN LINK GATE.
- 4 PROTECT EXISTING POWER POLE.
- 5 REMOVE EXISTING VOLLEYBALL POLES AND STAND.
- 6 INSTALL MODULAR BLOCK RETAINING WALL. SEE DETAIL SHEET. INSTALL WOOD SPLIT RAIL FENCE AT TOP OF WALL.
- 7 INSTALL ENTRANCE CURB AND GUTTER. SEE DETAIL SHEET.
- 8 INSTALL 6"x36" REMOVABLE BOLLARD WITH FLUSH MOUNT EMBEDMENT SLEEVE. CONTRACTOR TO PROVIDE SHOP DRAWING.
- 9 REMOVE 12" CRUSHED AGGREGATE TO USE FOR FILL ALONG SHARED USE PATH. REPLACE AGGREGATE WITH EXCAVATED MATERIALS FROM REMOVED VOLLEYBALL COURTS. ENSURE POSITIVE DRAINAGE ON FINISHED GRADE.
- 10 INSTALL 2" CONDUIT UNDER PAVEMENT FOR FUTURE LIGHTING.
- 11 4' HIGH, 5' WIDE CHAIN LINK GATE.

STORM SEWER CONSTRUCTION NOTES

- (D1) CONSTRUCT CATCH BASIN PER DETAIL SHEET.
- (D2) INSTALL FLARED END SECTION WITH ROCK CHANNEL PROTECTION. SEE DETAILS.

LANDSCAPING CONSTRUCTION NOTES

- (L1) PROTECT EXISTING TREES.

HATCH LEGEND

- [Hatched Box] SHARED USE PATH, SEE DETAIL
- [Dotted Box] PICKLEBALL COURT, SEE DETAIL
- [Stippled Box] 5" CONCRETE SIDEWALK, SEE DETAIL
- [Line with Circles] 10' TALL BLACK VINYL COATED FENCE, SEE DETAIL
- [Line with X's] 4' TALL BLACK VINYL COATED FENCE, SEE DETAIL
- [Line with Squares] WOOD SPLIT RAIL FENCE
- [Line with Dash] SF SILT FENCE, SEE DETAIL

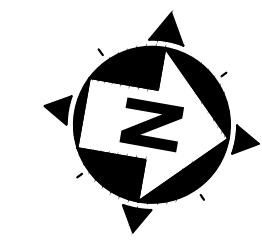
**THE COMMONS AT HIGHLAND HEIGHTS
SHARED USE PATH
HIGHLAND HEIGHTS, KY
LONG SHARED USE PATH
PLAN & PROFILE**

PROJECT NO.	241829
DISCIPLINE	CIVIL
SHEET NAME	PNP2
SHEET OF	C4 C11

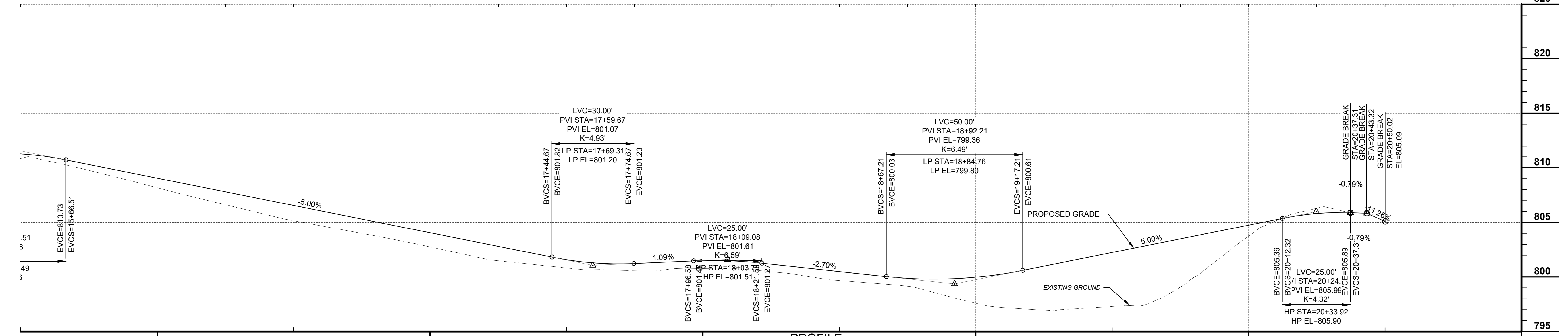
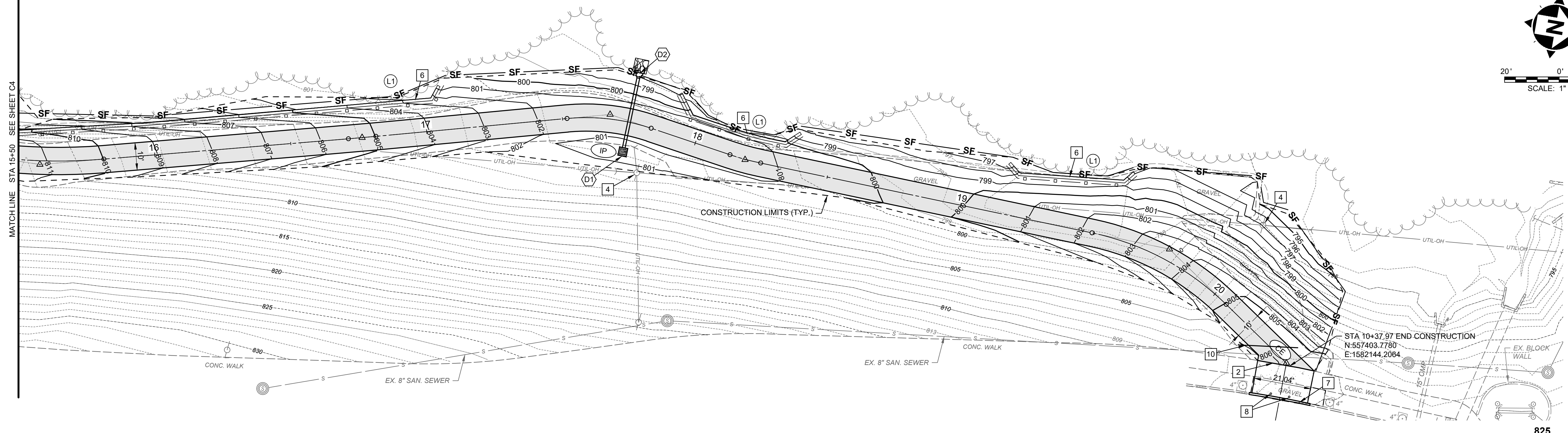
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CHECKED BY:	PVT
NO.	
REVISION	
DATE	

your trusted advisor
CONSULTANTS
engineers
architects
planners





20' 0' 20'
SCALE: 1" = 20'



PROFILE
H: 1" = 20'
V: 1" = 5'

GENERAL CONSTRUCTION NOTES

- 1 2" WIDE PICKLE BALL COURT MARKINGS. SEE DETAIL SHEET.
- 2 TIE INTO EXISTING SIDEWALK OR TRAIL.
- 3 10' HIGH, 5' WIDE CHAIN LINK GATE.
- 4 PROTECT EXISTING POWER POLE.
- 5 REMOVE EXISTING VOLLEYBALL POLES AND STAND.
- 6 INSTALL MODULAR BLOCK RETAINING WALL. SEE DETAIL SHEET. INSTALL WOOD SPLIT RAIL FENCE AT TOP OF WALL.
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- 10 INSTALL 2" CONDUIT UNDER PAVEMENT FOR FUTURE LIGHTING.
- 11 4' HIGH, 5' WIDE CHAIN LINK GATE.

STORM SEWER CONSTRUCTION NOTES

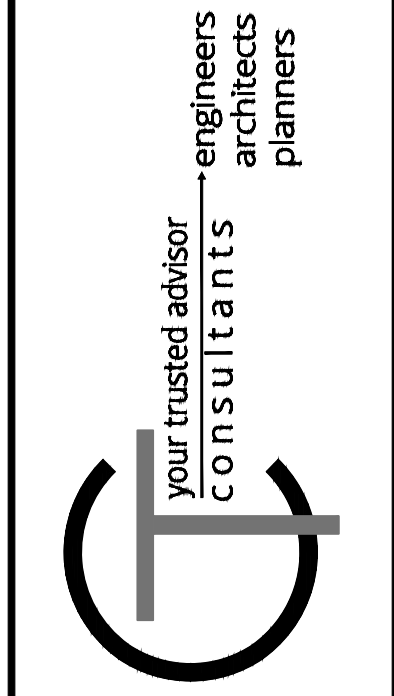
- (D1) CONSTRUCT CATCH BASIN PER DETAIL SHEET.
- (D2) INSTALL FLARED END SECTION WITH ROCK CHANNEL PROTECTION. SEE DETAILS.

LANDSCAPING CONSTRUCTION NOTES

- (L1) PROTECT EXISTING TREES.

HATCH LEGEND

- [Hatched Box] SHARED USE PATH, SEE DETAIL
- [Dotted Box] PICKLEBALL COURT, SEE DETAIL
- [Stippled Box] 5" CONCRETE SIDEWALK, SEE DETAIL
- [Dashed Line] 10' TALL BLACK VINYL COATED FENCE, SEE DETAIL
- [Crossed Line] 4' TALL BLACK VINYL COATED FENCE, SEE DETAIL
- [Square Line] WOOD SPLIT RAIL FENCE
- [Line with SF] SILT FENCE, SEE DETAIL

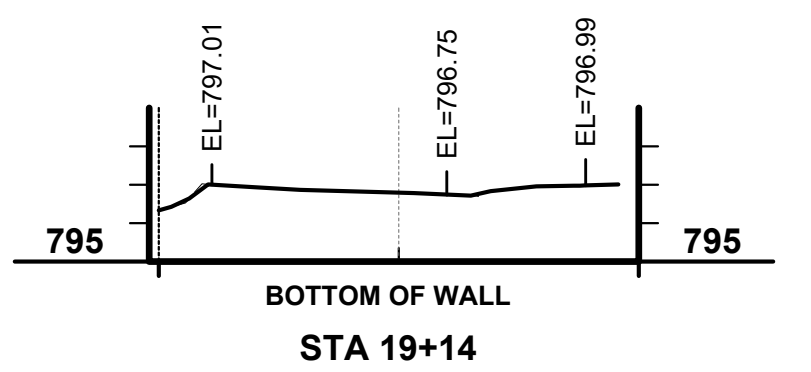
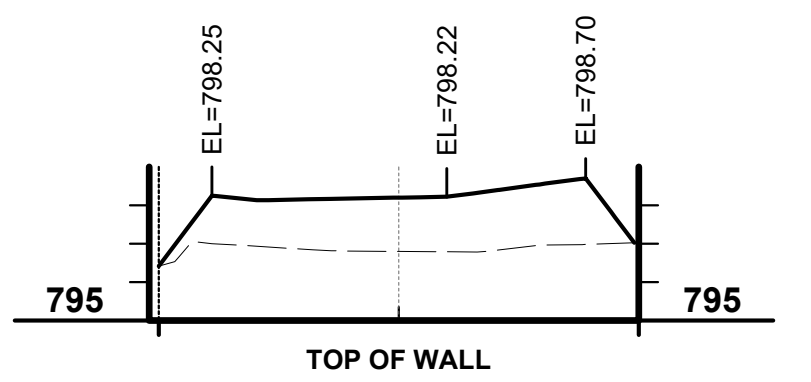
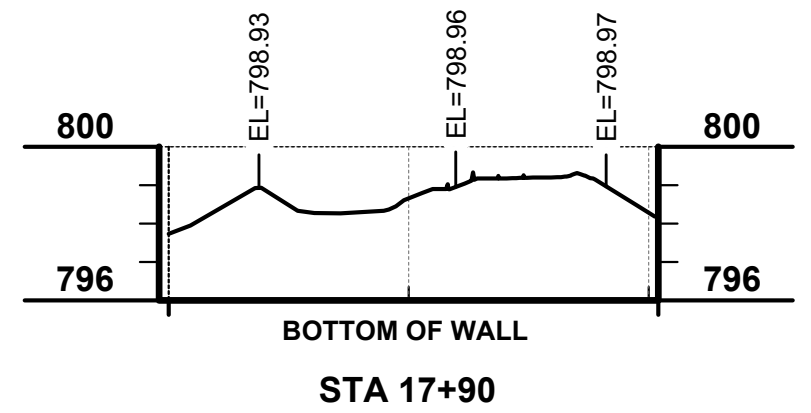
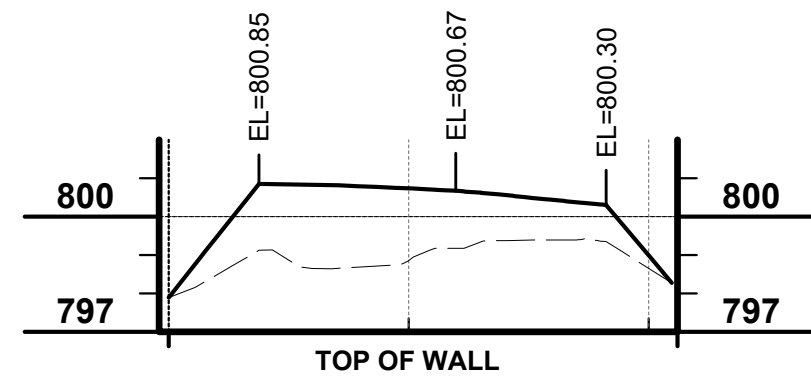
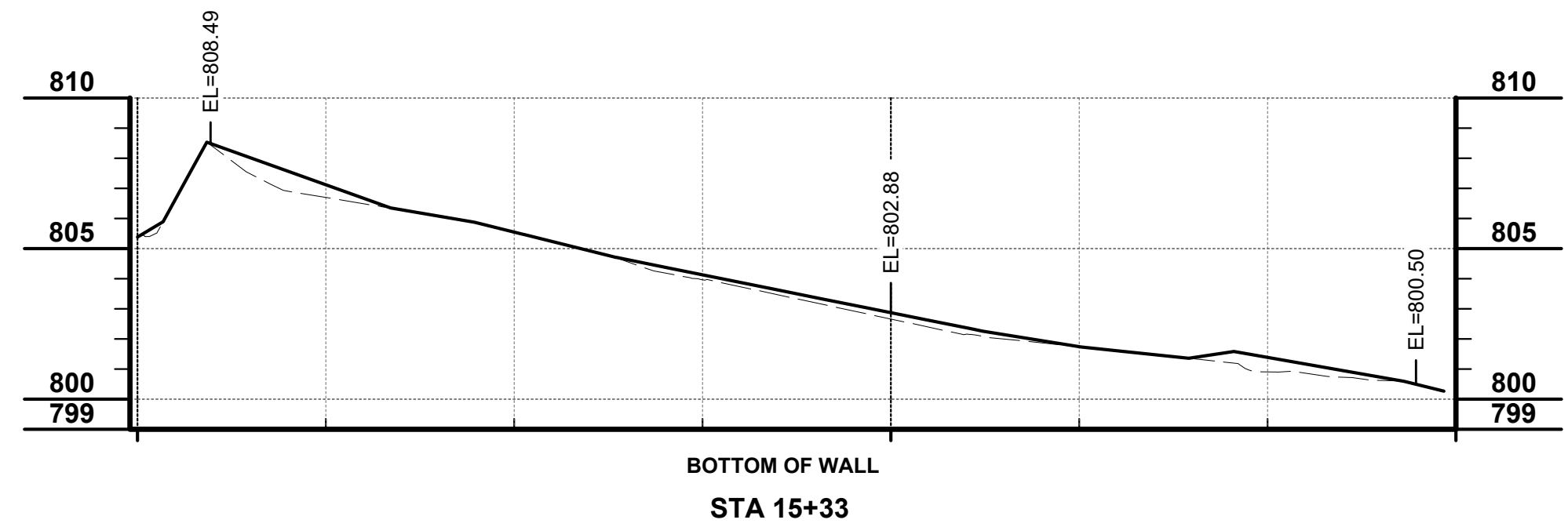
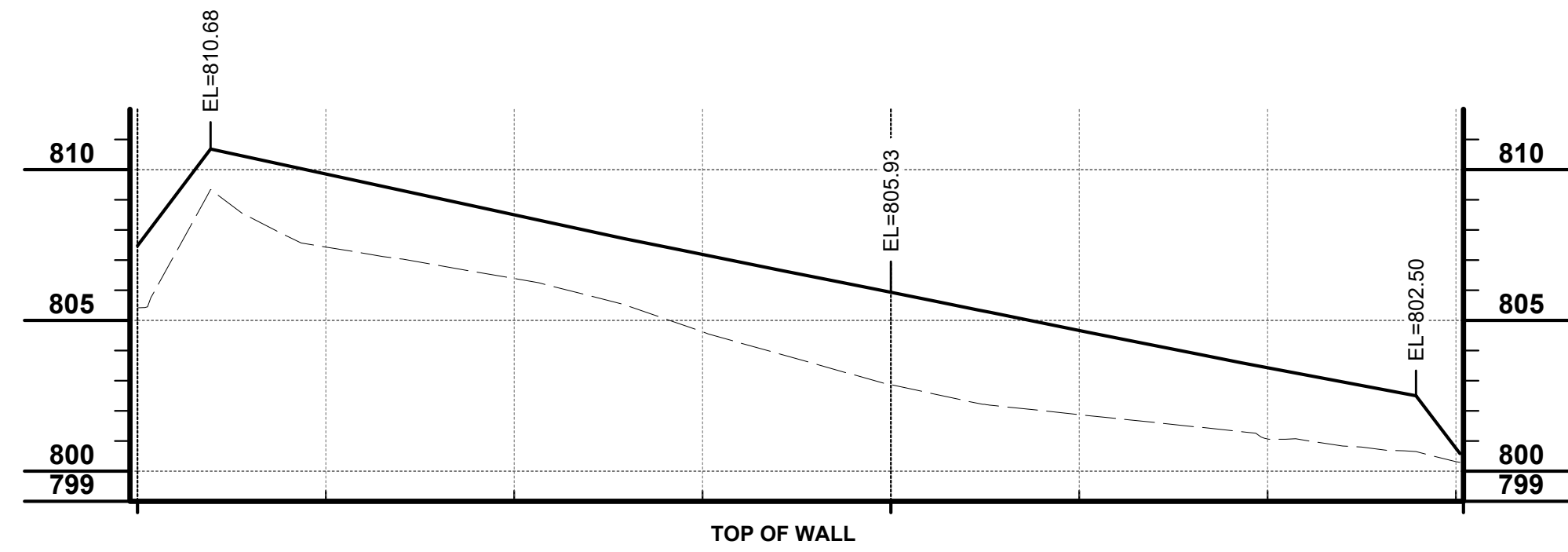


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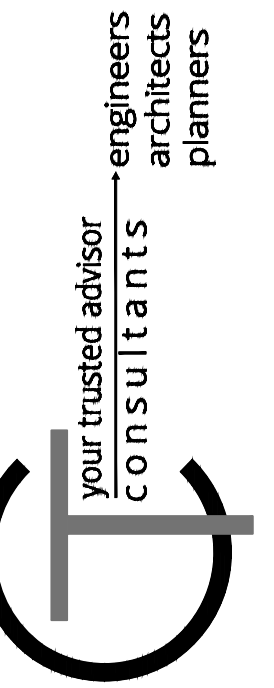
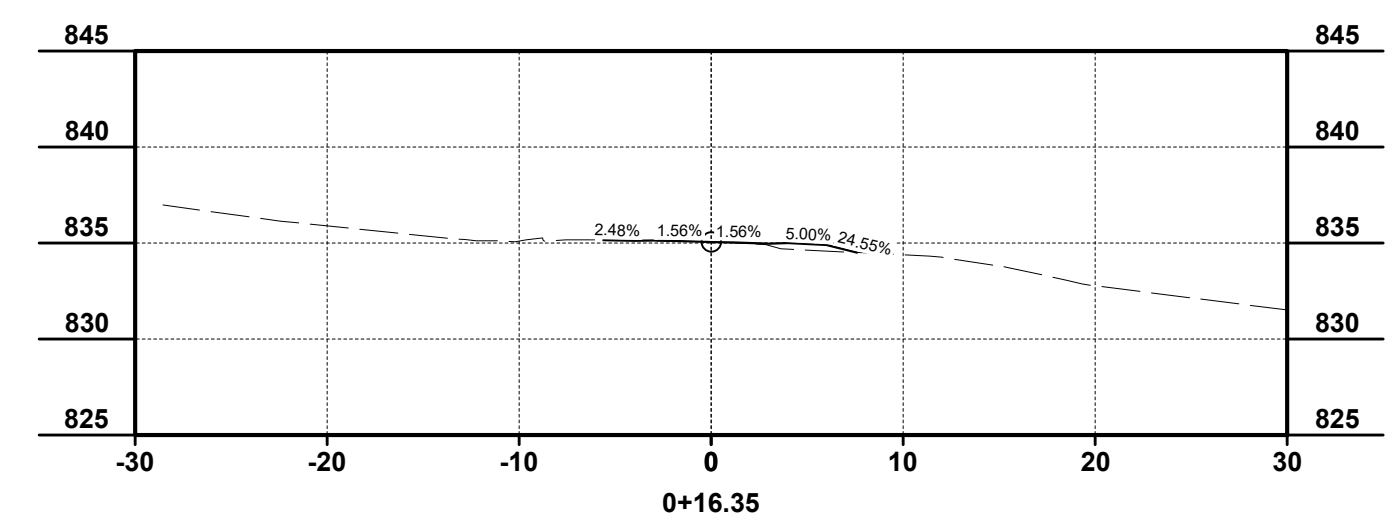
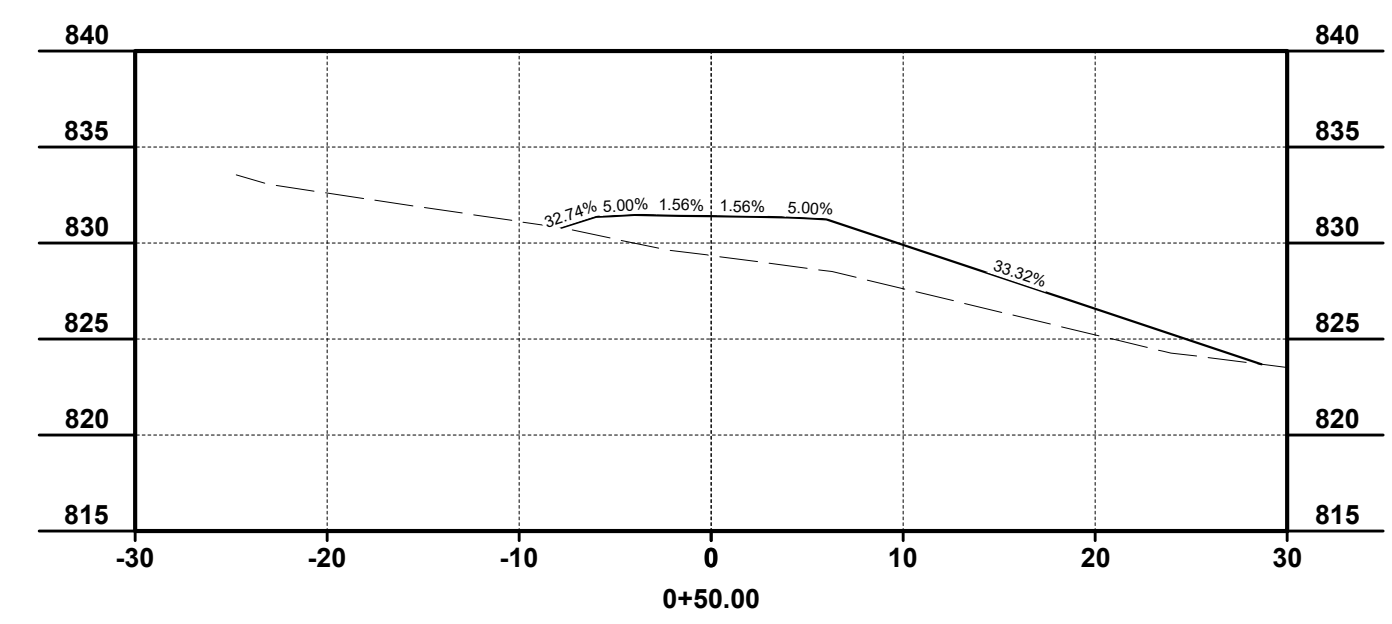
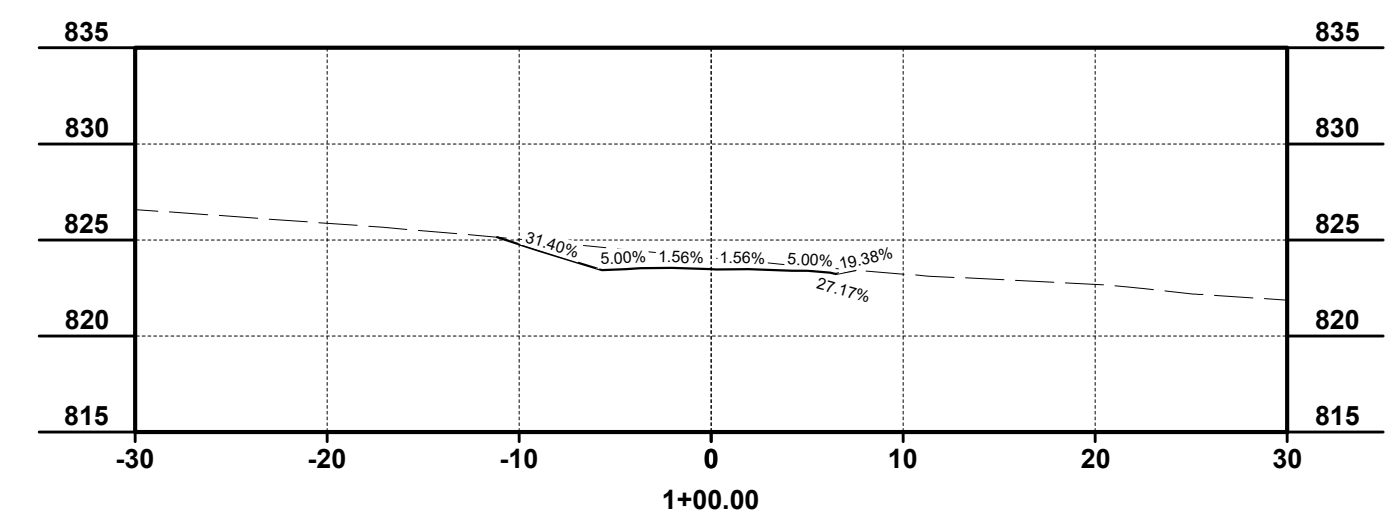
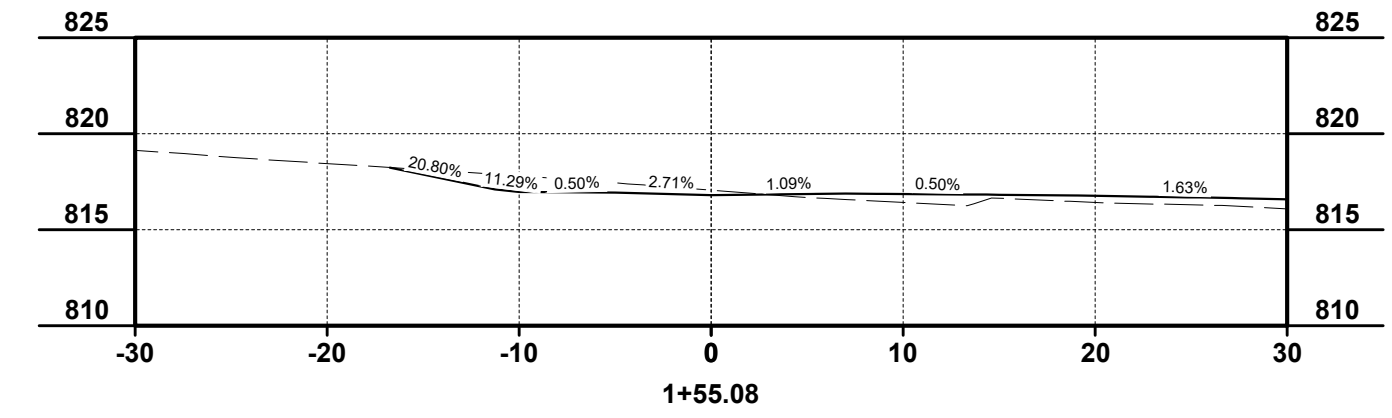
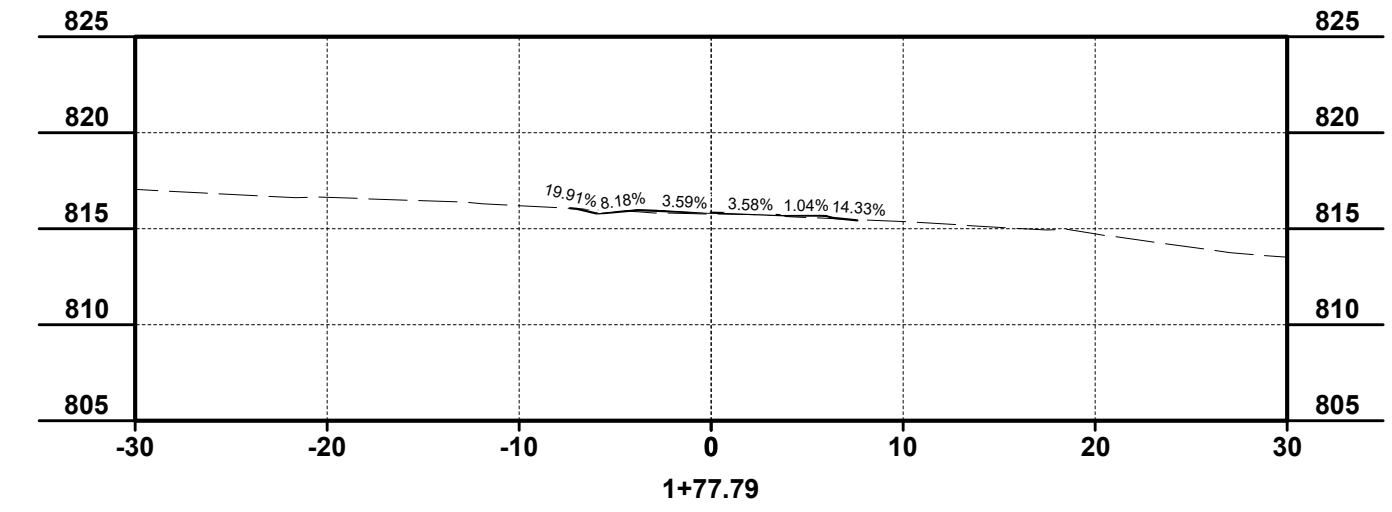
THE COMMONS AT HIGHLAND HEIGHTS
SHARED USE PATH
HIGHLAND HEIGHTS, KY
LONG SHARED USE PATH
PLAN & PROFILE

PROJECT NO.	241829
DISCIPLINE	CIVIL
SHEET NAME	PNP3
SHEET	OF
C5	C11





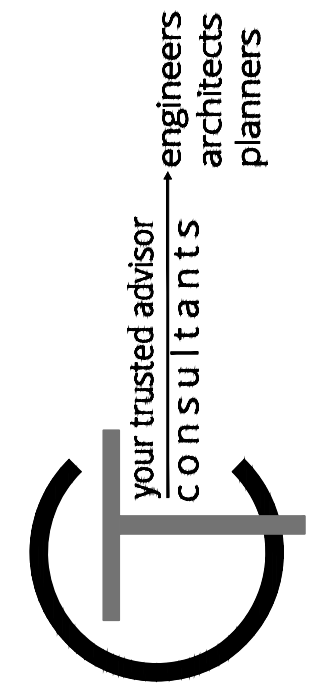
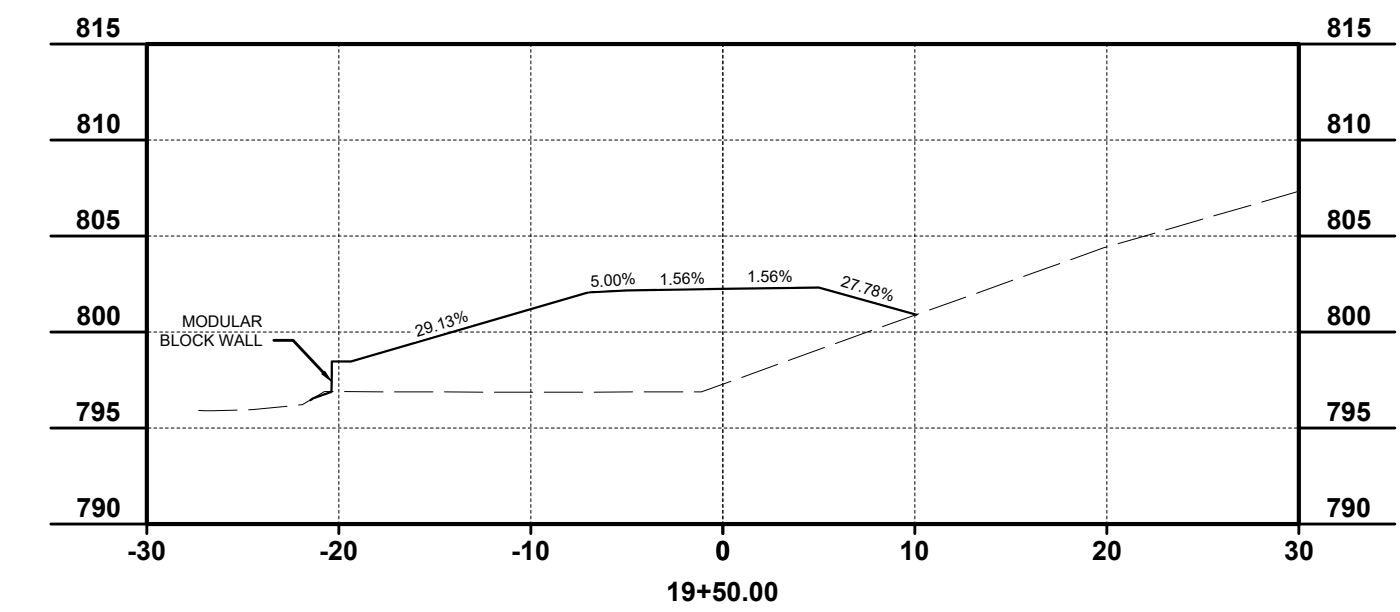
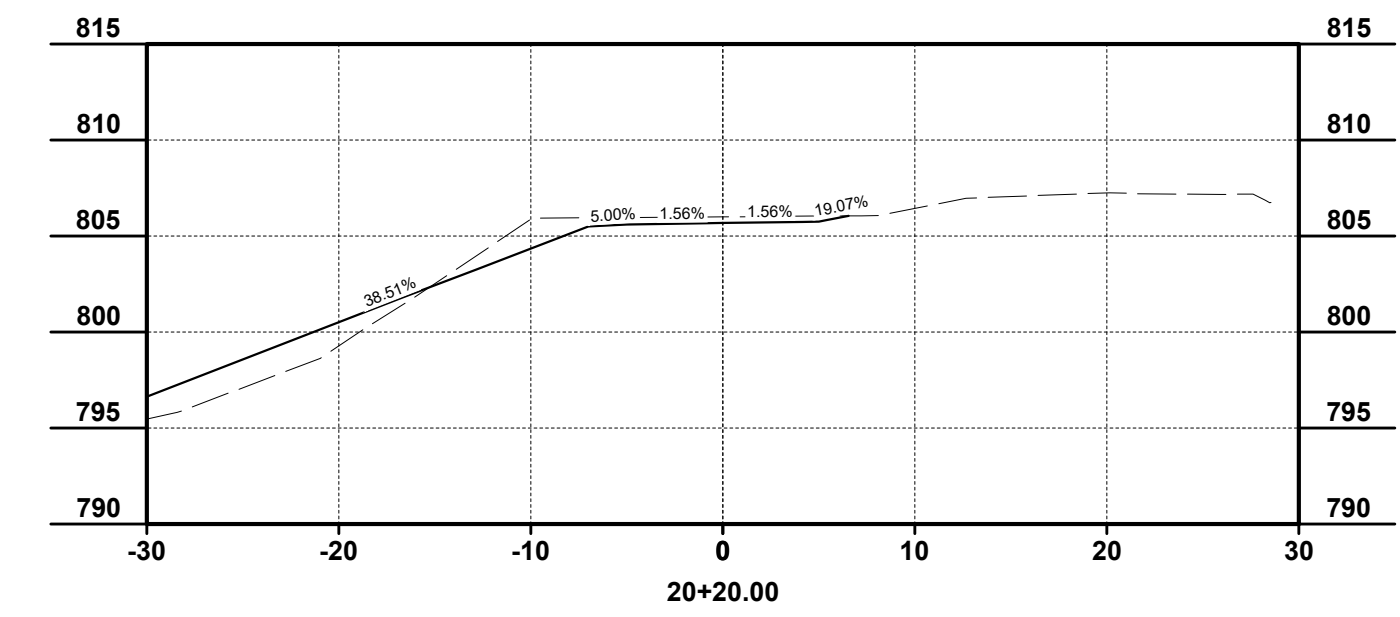
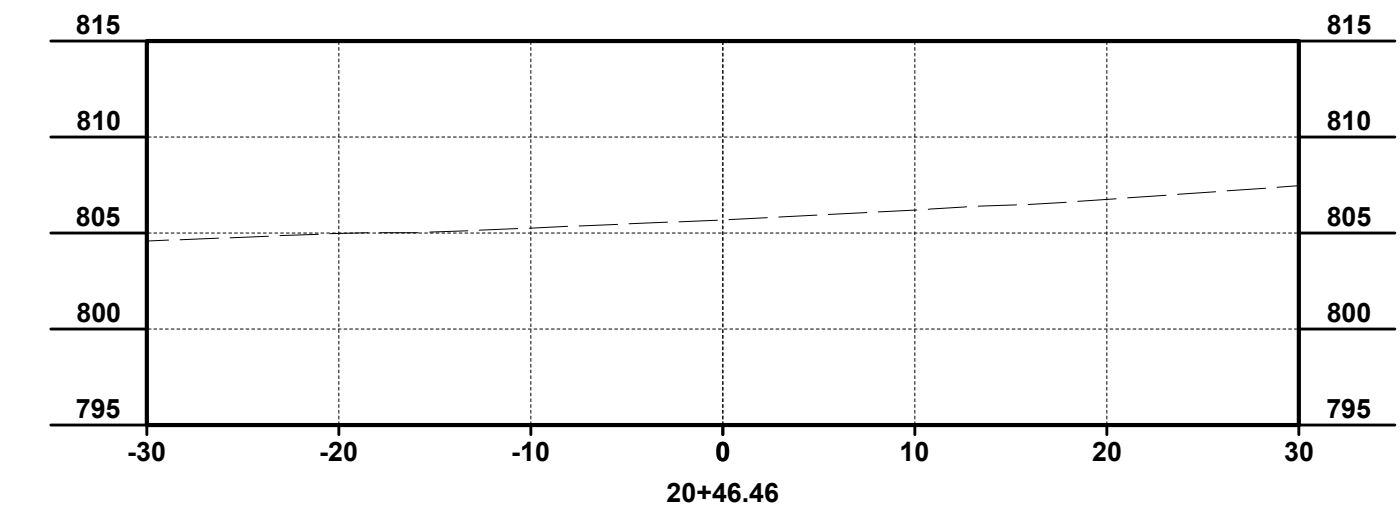
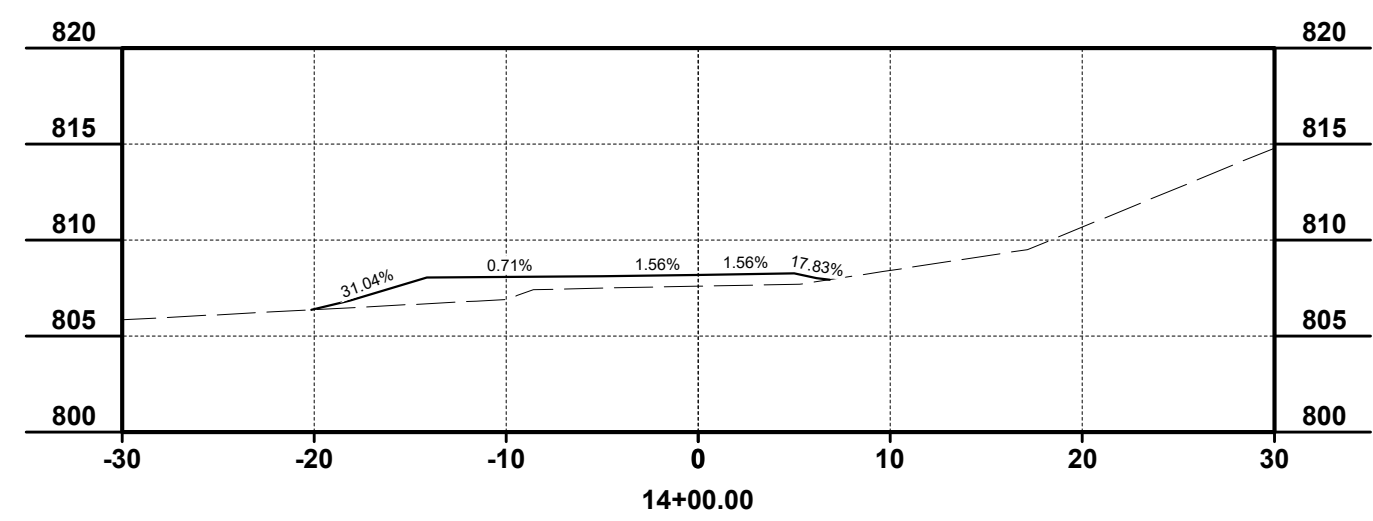
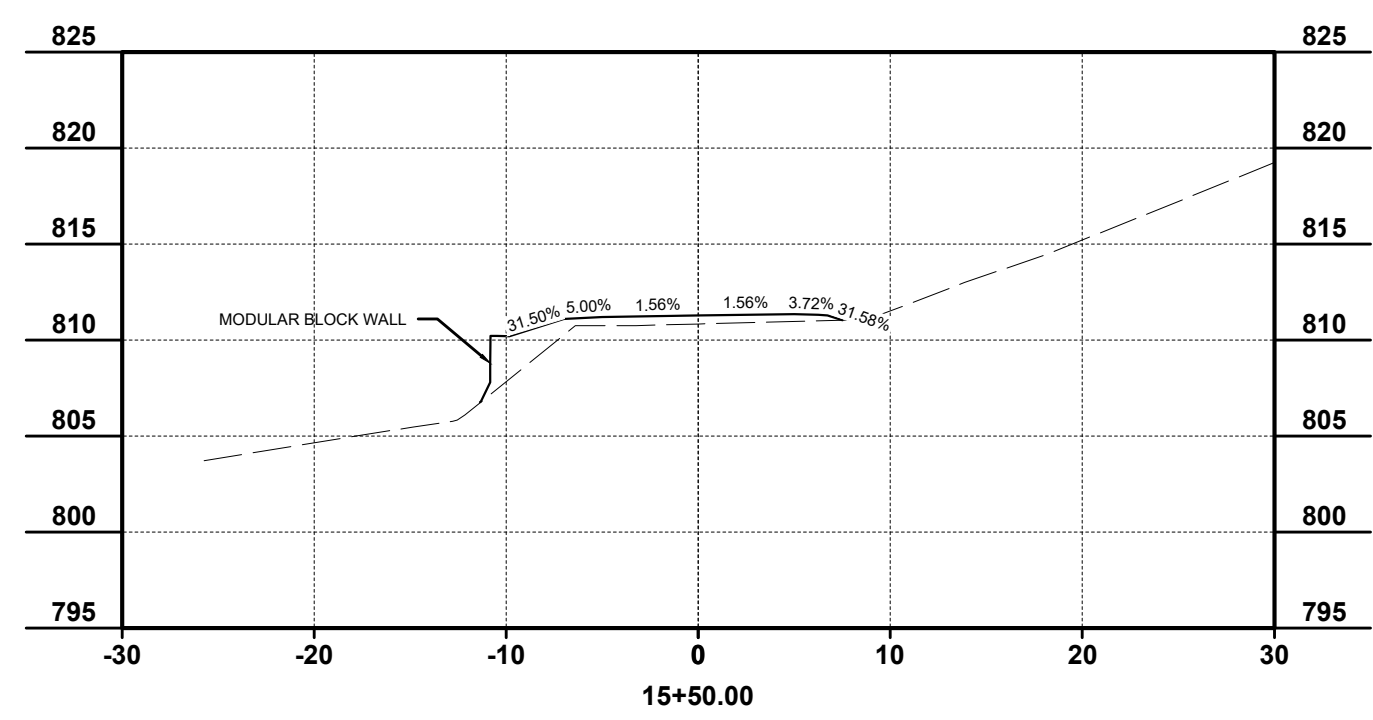
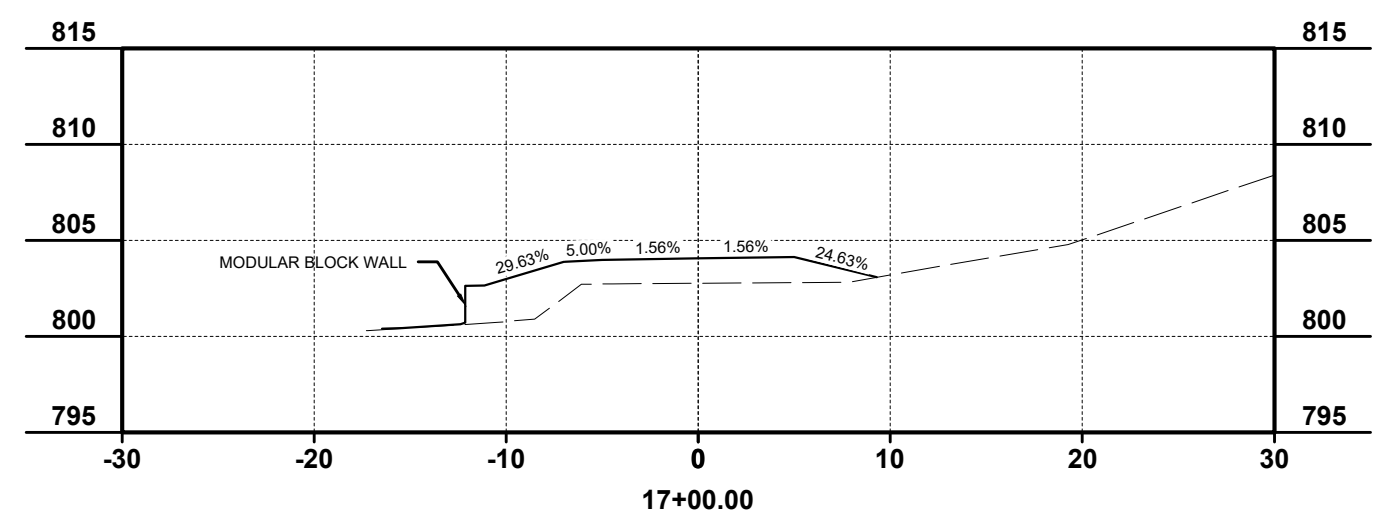
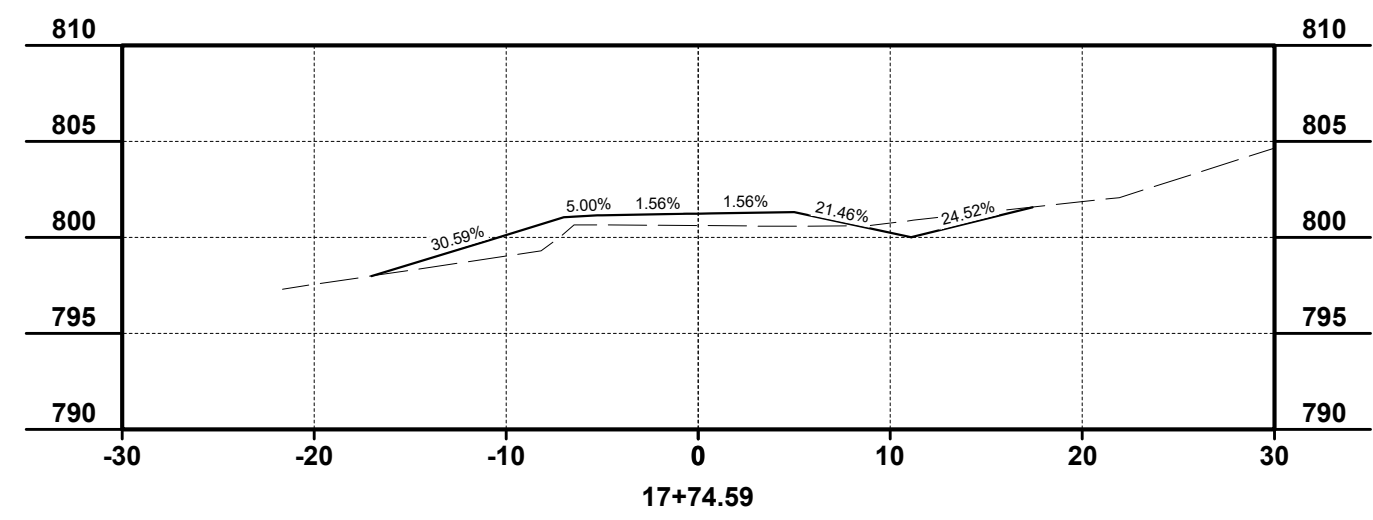
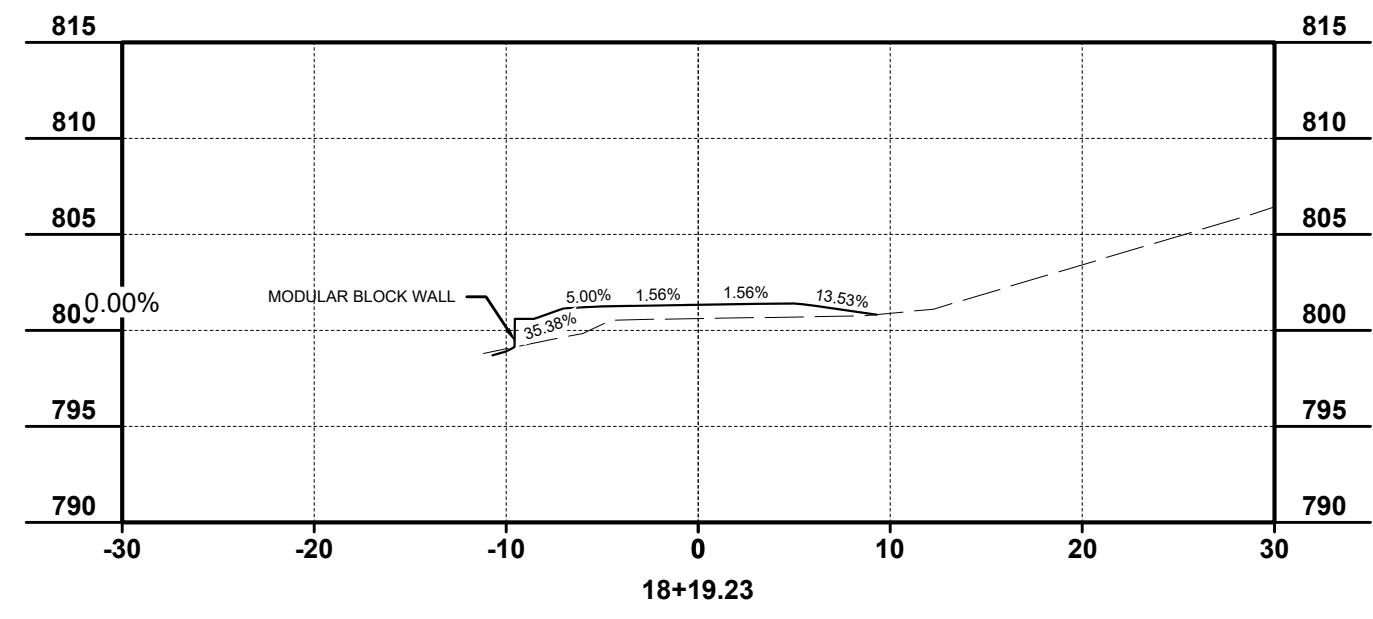
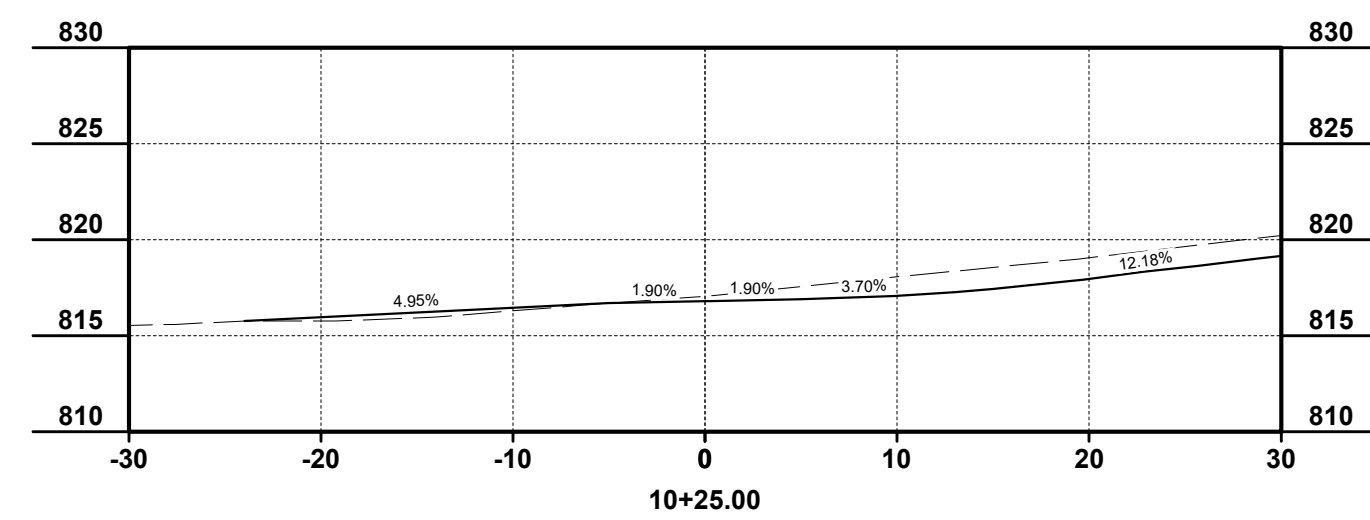
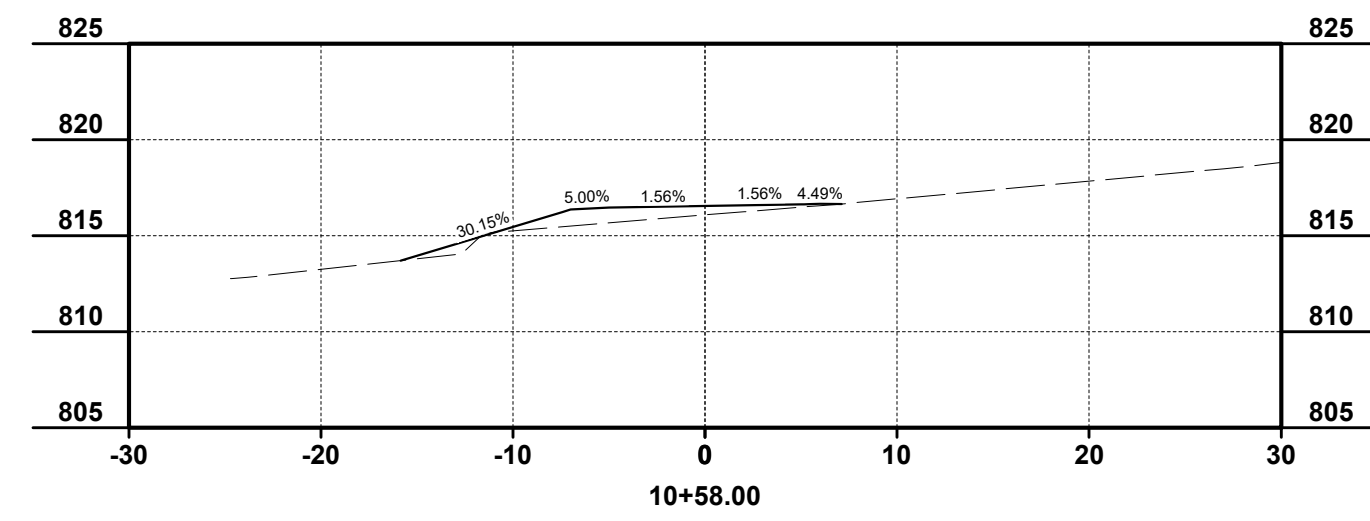
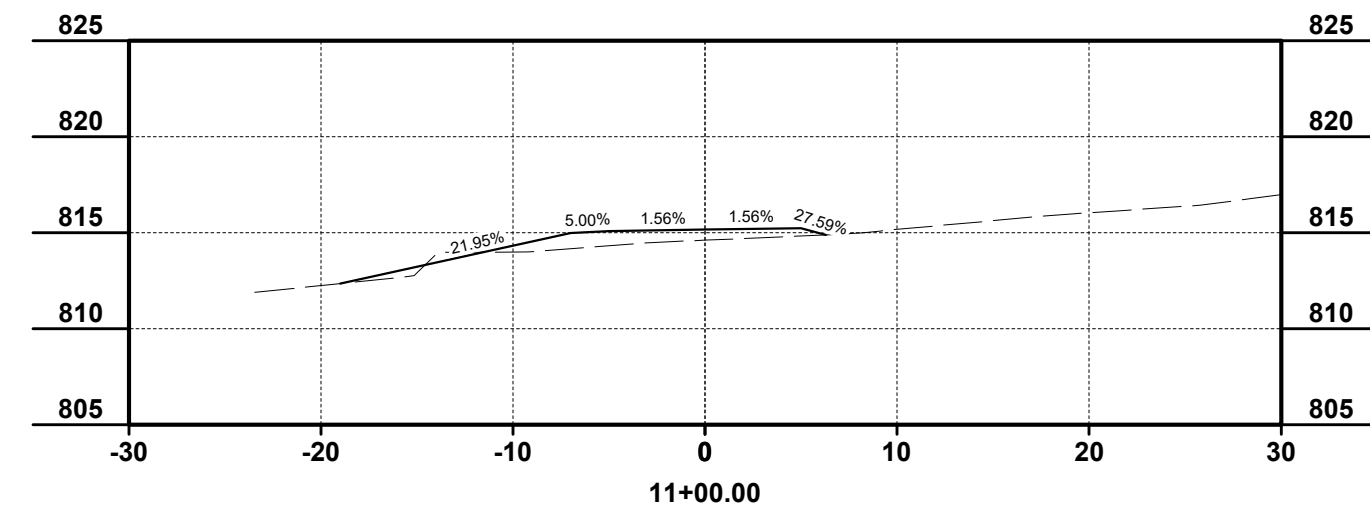
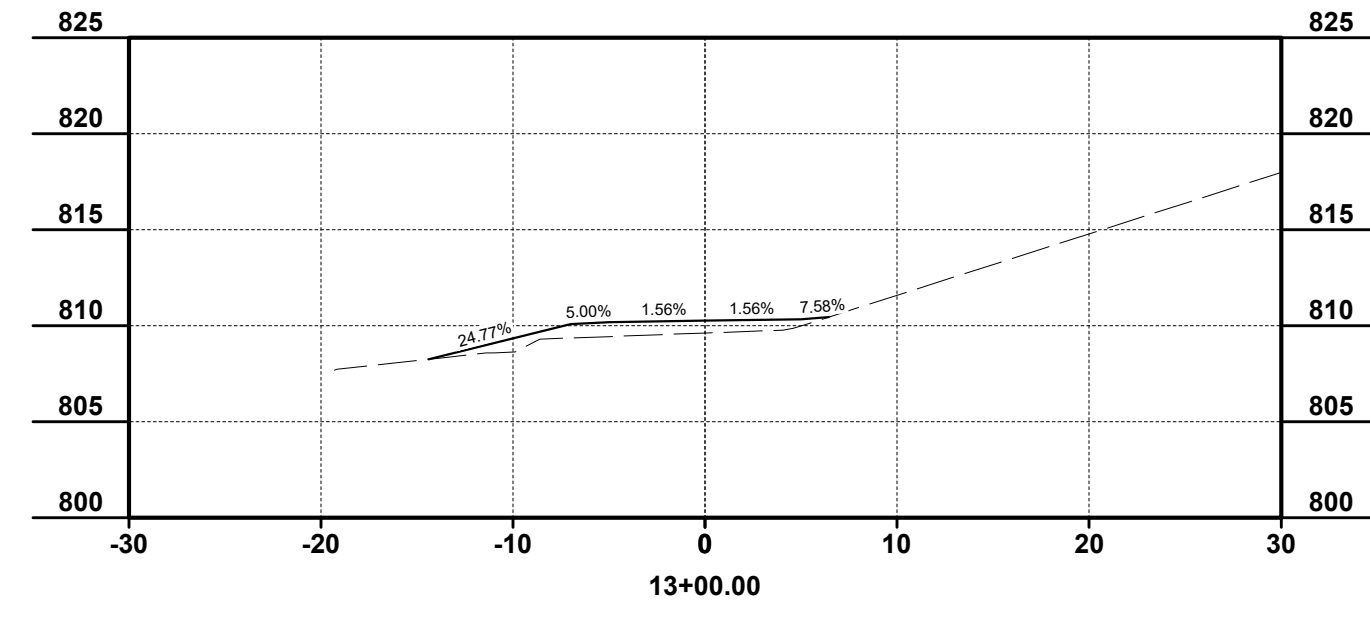
MODULAR BLOCK WALL PROFILES



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THE COMMONS AT HIGHLAND HEIGHTS
SHARED USE PATH
HIGHLAND HEIGHTS, KY
SHORT SHARED USE PATH
CROSS SECTIONS

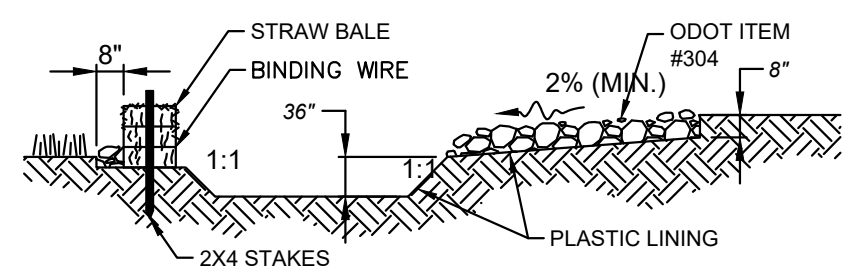
PROJECT NO.	241829
DISCIPLINE	CIVIL
SHEET NAME	XSEC1
SHEET	OF
C6	C11



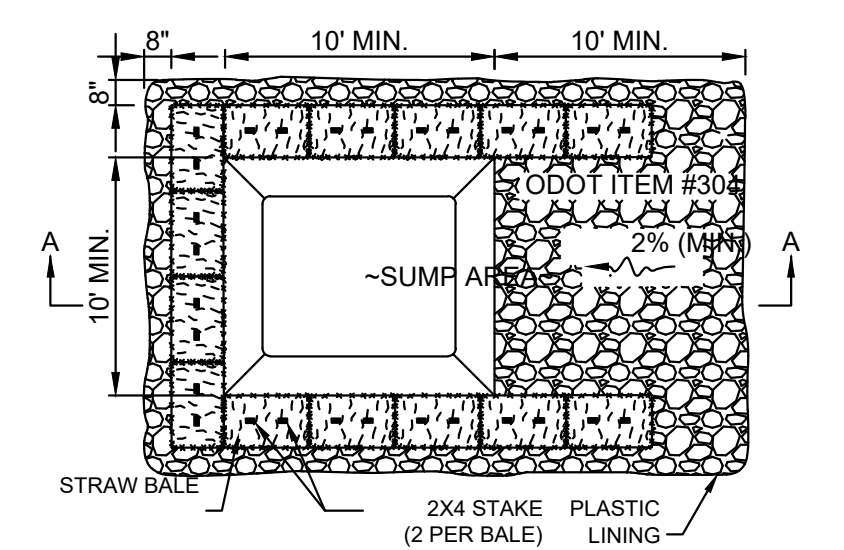
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**THE COMMONS AT HIGHLAND HEIGHTS
SHARED USE PATH
HIGHLAND HEIGHTS, KY
LONG SHARED USE PATH
CROSS SECTIONS**

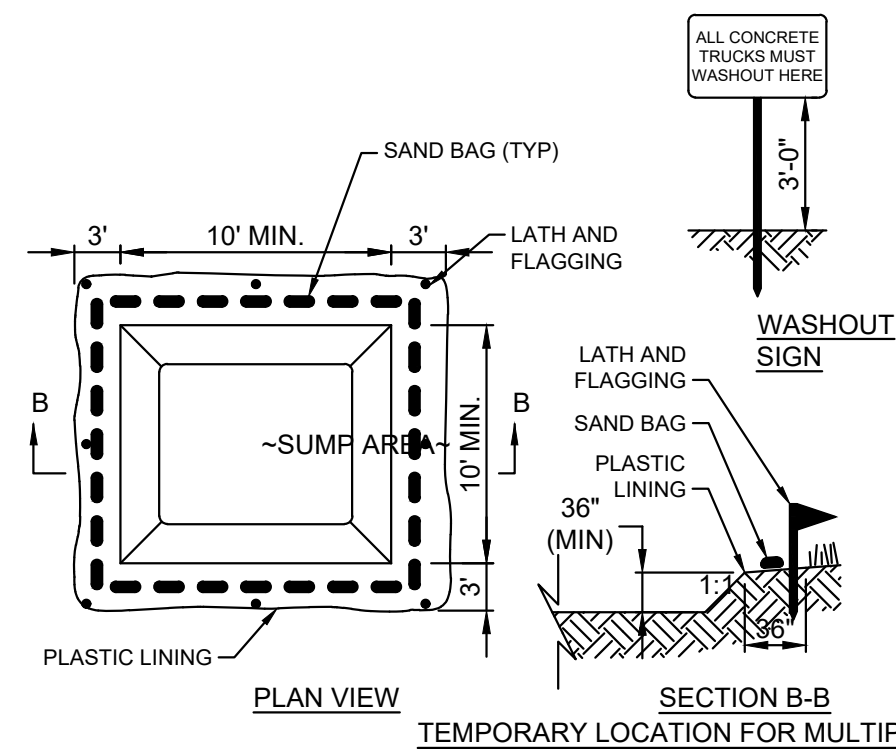
PROJECT NO.	241829
DISCIPLINE	CIVIL
SHEET NAME	XSEC2
SHEET	OF
C7	C11



SECTION A-A



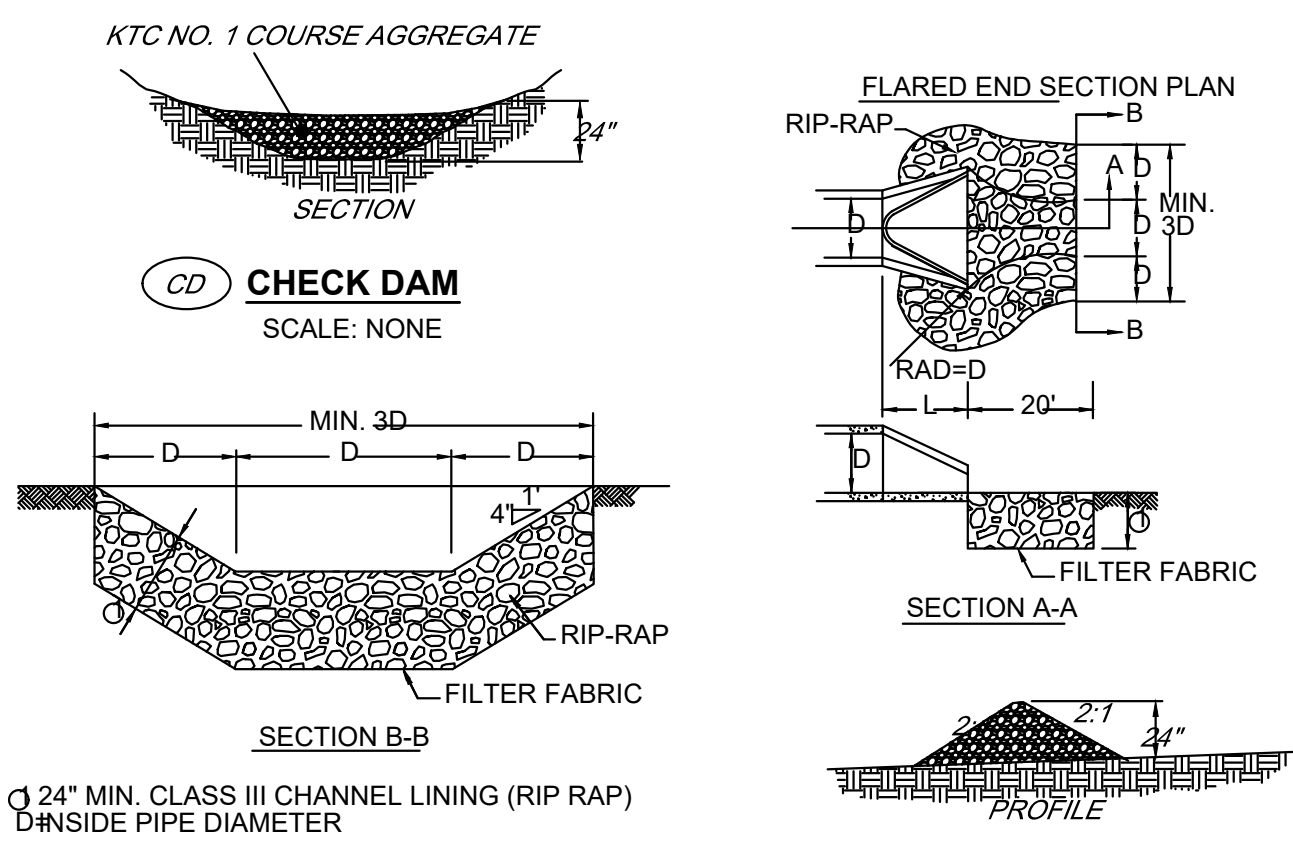
PLAN VIEW SINGLE LOCATION FOR ENTIRE PROJECT



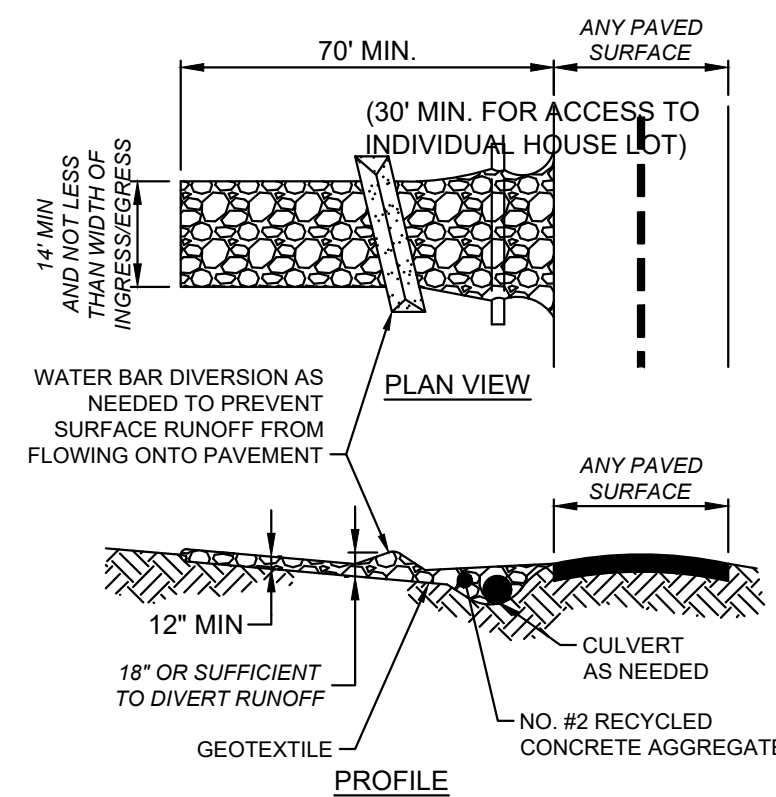
PLAN VIEW TEMPORARY LOCATION FOR MULTIPLE PHASE PROJECT

- NOTES:
- WASHOUT PIT SHALL BE LOCATED 100' MINIMUM FROM INLETS, STREAMS, WETLANDS AND ANY OTHER SURFACE WATERS.
 - ALL EXCESS CONCRETE AND CONCRETE WASHOUT, INCLUDING FROM HAND MIXERS AND LIGHT EQUIPMENT, SHALL BE DISPOSED OF IN THE CONCRETE WASHOUT AREA. DISPOSAL OF EXCESS CONCRETE OR CONCRETE WASHOUT ON THE GROUND, OR IN STORM DRAINS, DITCHES OR WATER BODIES, IS PROHIBITED.
 - CONCRETE WASHOUT AREA SHALL BE SUFFICIENT SIZE TO CONTAIN CONCRETE WASTE GENERATED. FOR LARGER SITES, MULTIPLE CONCRETE WASHOUT AREAS MAY BE REQUIRED.
 - IF CONCRETE WASHOUT AREA IS LOCATED AWAY FROM A PAVED SURFACE, CONSTRUCT A GRAVEL ACCESS ROUTE EQUAL IN COMPOSITION TO THE CONSTRUCTION ENTRANCE.
 - PLASTIC LINING SHALL BE DOUBLE-LINED, CONTINUOUS 10-ML POLYETHYLENE SHEETING FREE OF HOLES, TEARS OR OTHER DEFECTS, AND INSTALLED ON A SMOOTH, LEVEL SURFACE, FREE OF ROCKS OR DEBRIS.
 - CONCRETE WASHOUT SIGNAGE SHALL BE CLEARLY VISIBLE AND LOCATED WITHIN 30 FEET OF EACH WASHOUT AREA.
 - CONCRETE WASHOUT AREAS SHALL BE COVERED DURING INCLEMENT WEATHER TO PREVENT OVERFLOWS.
 - PREFABRICATED, PORTABLE AND RE-USABLE CONCRETE WASHOUT CONTAINERS ARE ACCEPTABLE, BUT MUST BE SPECIFICALLY DESIGNED FOR CONCRETE WASHOUT USE.
 - CONCRETE WASHOUT AREA SHALL BE INSPECTED DAILY TO CHECK FOR DAMAGE AND TO DETERMINE IF IT NEEDS CLEANED OR REPLACED. ANY DAMAGE TO THE SIDEWALLS OR POLYETHYLENE SHEETING SHALL BE REPAIRED IMMEDIATELY. THE CONCRETE WASHOUT AREA SHALL BE CLEANED OR REPLACED WHEN IT IS 75% FULL. THE POLYETHYLENE SHEETING SHALL BE REPLACED AFTER EACH CLEANING.
 - SAW CUT CONCRETE, RESIDUE FROM SAW CUT, AND GRINDINGS SHALL BE DISPOSED OF IN THE WASHOUT PIT.

CONCRETE WASHOUT DETAIL
SCALE: NONE



SECTION B-B
24" MIN. CLASS III CHANNEL LINING (RIP RAP)
4" INSIDE PIPE DIAMETER
RCP ROCK CHANNEL PROTECTION
SCALE: NONE
(REFERENCE ARMY CORP OF ENGINEERS DETAIL NO. G104401X & KYTC RDD-040)



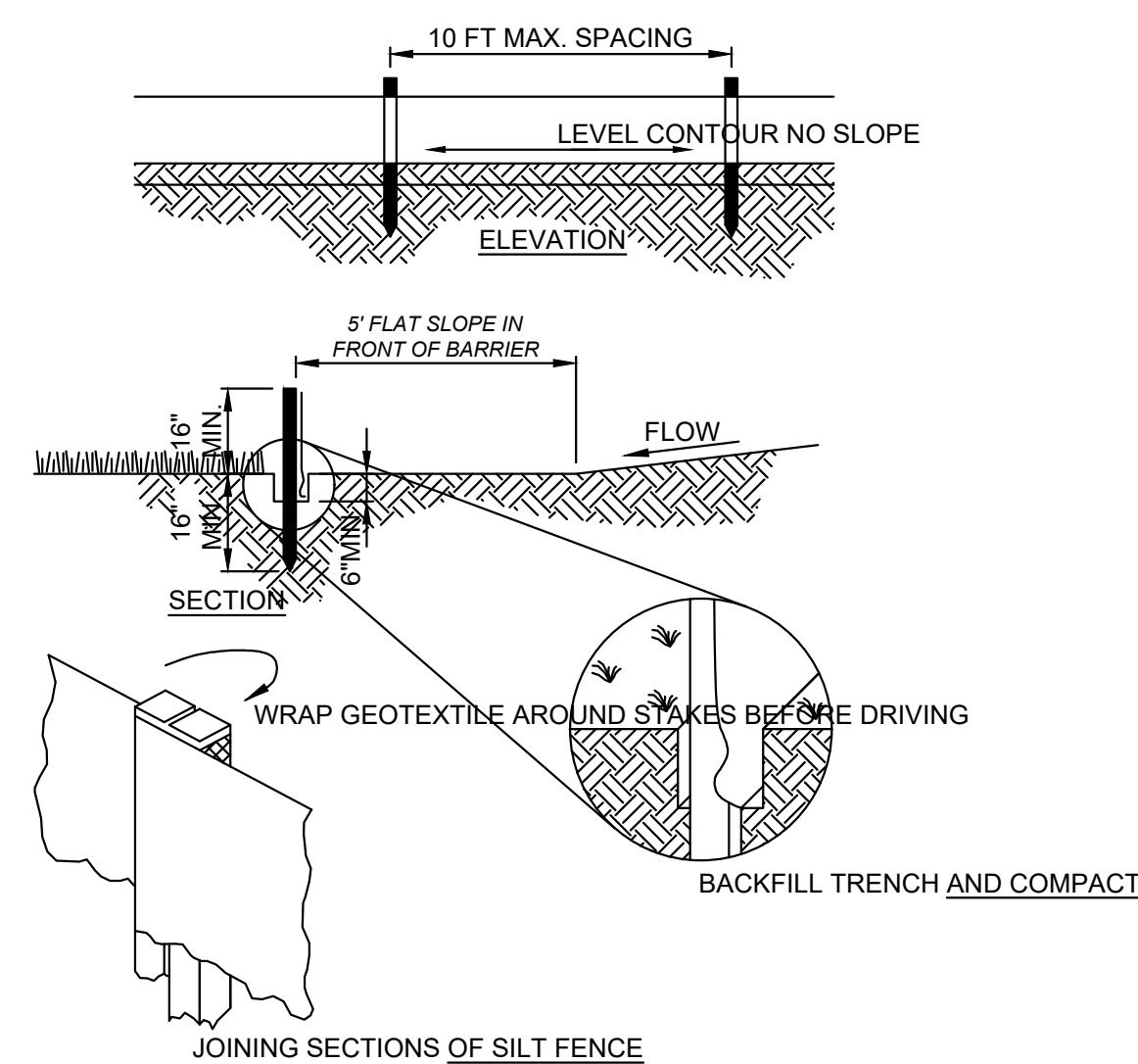
- NOTES:
- PLACE GEOTEXTILE OVER THE ENTIRE AREA PRIOR TO PLACING STONE MEETING THE MIN. SPECIFICATIONS:
 - TENSILE STRENGTH = 200 LBS.
 - PUNCTURE STRENGTH = 80 PSI
 - TEAR STRENGTH = 50 LBS.
 - BURST STRENGTH = 320 PSI
 - ELONGATION = 20%
 - EQUIVALENT OPENING SIZE ≤ 0.6 MM
 - PERMITTIVITY = 0.001 CM/SEC
 - APPLY ADDITIONAL STONE AS CONDITIONS DEMAND AND REPLENISH STONE WHEN THE DEPTH IS LESS THAN 6". REMOVE AND REPLACE IF STONES BECOMES MUD-LADEN.
 - IMMEDIATELY REMOVE MUD DROPPED, WASHED OR TRACKED ONTO ROADS OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS BY SCRAPING OR SWEEPING.
 - CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES OR TO PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION SITE SHALL BE RESTRICTED FROM MUDDY AREAS.

CONSTRUCTION ENTRANCE
SCALE: NONE

PERMANENT SEEDING FERTILIZATION AND MOWING CHART				
MIXTURE	FORMULA	LB/AC	TIME	MOW
CREEPING RED FESCUE DOMESTIC RYEGRASS KENTUCKY BLUEGRASS	10-10-10	500	FALL YEARLY OR AS NEEDED	≥3"
TALL FESCUE	10-10-10	500		≥4"
TURF-TYPE FESCUE	10-10-10	500		
CROWN VETCH FESCUE	0-20-20	400	SPRING AND YEARLY AFTER ESTABLISHED	DO NOT MOW
FLAT PEA FESCUE	0-20-20	400		

PERMANENT SEEDING SPECIES SELECTION		
SEED MIX	SEED RATE LB/AC.	NOTES:
GENERAL USE		
CREEPING RED FESCUE	20 - 40	FOR CLOSE MOWING AND WATERWAYS WITH ≤2.0 FT./SEC. VELOCITY
DOMESTIC RYEGRASS	10 - 20	
KENTUCKY BLUEGRASS	20 - 40	
TALL FESCUE	40 - 50	
TURF-TYPE FESCUE	90	
STEEP BANKS OR CUT SLOPES		
TALL FESCUE	40 - 50	
CROWN VETCH TALL FESCUE	10 - 20 20 - 30	DO NOT SEED LATER THAN AUGUST
FLAT PEA TALL FESCUE	20 - 25 20 - 30	DO NOT SEED LATER THAN AUGUST
ROAD DITCHES AND SWALES		
TALL FESCUE	40 - 50	
TURF-TYPE FESCUE	90	
KENTUCKY BLUEGRASS	100 - 120	
PERENNIAL RYEGRASS	100 - 120	
LAWN		
KENTUCKY BLUEGRASS	100 - 120	FOR SHADED AREAS
PERENNIAL RYEGRASS	100 - 120	
CREEPING RED FESCUE	100 - 120	

PERMANENT SEEDING DETAIL
SCALE: NONE



- NOTES:
- PRESERVE VEGETATION FOR 5 FEET, OR AS MUCH AS POSSIBLE, UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE RE-ESTABLISHED WITHIN 7 DAYS FROM SILT FENCE INSTALLATION.
 - SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. PERFORM ONE OF THE FOLLOWING IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW:
 - CHANGE THE LAYOUT OF THE SILT FENCE.
 - REMOVE ACCUMULATED SEDIMENT.
 - INSTALL OTHER PRACTICES.

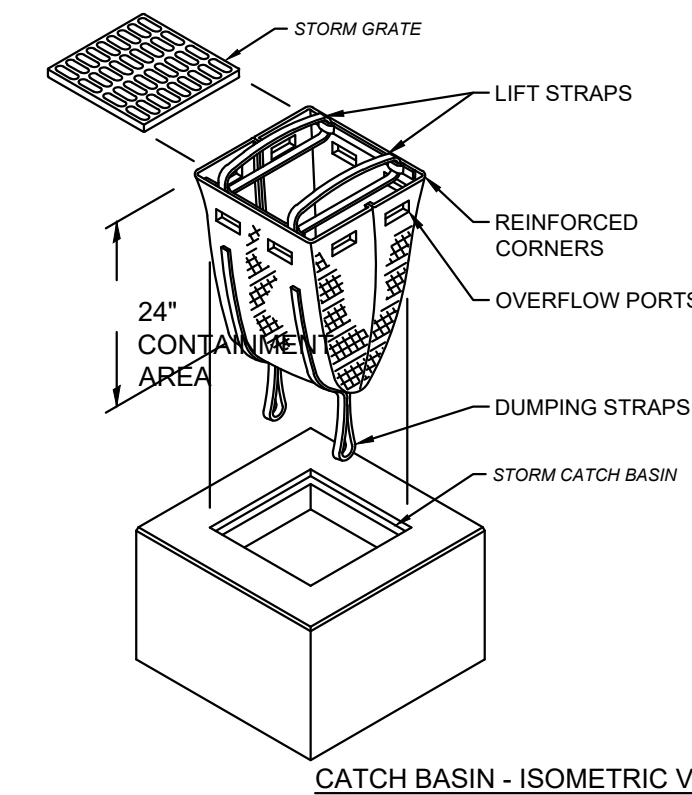
FABRIC PROPERTIES	VALUES	TEST METHOD
GRAB TENSILE STRENGTH	90 LB. MIN	ASTM D-1682
MULLEN BURST STRENGTH	190 PSI MIN	ASTM D-3786
SLURRY FLOW RATE	0.3 GAL./MIN./S.F. MAX.	
EQUIVALENT OPENING SIZE	40-80	US STD. SIEVE CW-02215
ULTRAVIOLET RADIATION STABILITY	90% MIN	ASTM-G-26

SILT FENCE
SCALE: NONE

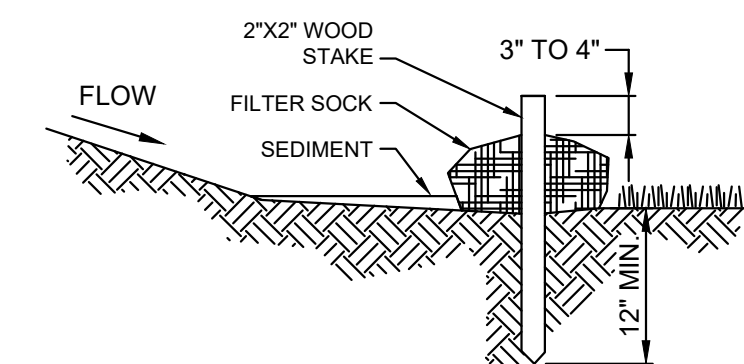
- NOTES:
- THE SEED BED SHALL BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION.
 - SOIL AMENDMENTS MAY BE REQUIRED TO ESTABLISH ADEQUATE VEGETATION. PERFORM SOIL TESTS ON THE SITE TO PREDICT THE NEED FOR LIME AND FERTILIZER.
 - APPLY SEED UNIFORMLY. COVER BROADCASTED SEED BY RAKING OR DRAGGING AND THEN LIGHTLY TAMPING INTO PLACE.
 - APPLY MULCHING IMMEDIATELY AFTER SEEDING.
 - SEEDING SHALL BE INSPECTED FOR BARE SPOTS AND WASHOUTS, AND RESEED AS NECESSARY.

TEMPORARY SEEDING SPECIES SELECTION			
DATES	SPECIES	LB/1,000 SF	LB/AC.
MARCH 1 TO AUGUST 15	OATS	3	128
	TALL FESCUE	1	40
	PERENNIAL RYEGRASS	1	40
AUGUST 16 TO NOVEMBER 1	PERENNIAL RYEGRASS	2	40
	TALL FESCUE	1	40
NOVEMBER 1 TO SPRING	RYE	3	112
	TALL FESCUE	1	40
	PERENNIAL RYEGRASS	1	40
	ONLY MULCH OR DORMANT SEEDING.		

TEMPORARY SEEDING DETAIL
SCALE: NONE



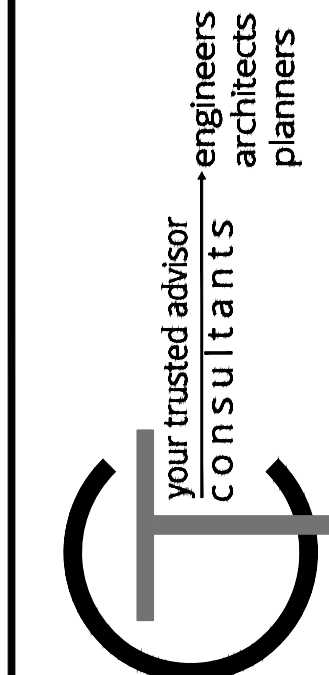
INLET PROTECTION
SCALE: NONE



- NOTES:
- FILTER SOCKS SHALL BE 3 OR 5 MIL CONTINUOUS, TUBULAR, HDPE 3/8" KNITTED MESH NETTING MATERIAL, FILLED WITH COMPOST.
 - COMPOST SHALL BE WEED, PATHOGEN AND INSECT FREE, FREE OF ANY REFUSE, CONTAMINANTS OR OTHER MATERIALS TOXIC TO PLANT GROWTH, BE DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER, AND CONSIST OF PARTICLES RANGING FROM 3/8" TO 2".
 - FILTER SOCKS SHALL BE PLACED ON A LEVEL LINE ACROSS SLOPES PARALLEL TO THE BASE OF THE SLOPE.
 - FILTER SOCKS SHALL BE PLACED AT LEAST 5' FROM THE TOE OF SLOPE FOR SEDIMENT DEPOSIT.
 - BUILT UP SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED 1/3 THE FILTER SOCK HEIGHT.
 - WHEN A FILTER SOCK IS NO LONGER REQUIRED, IT SHALL BE DISPERSED ON-SITE.
 - THE MAXIMUM DRAINAGE AREA PER 100 FEET OF FILTER SOCK IS 1/2 ACRE AND IS DEPENDENT ON THE SLOPE:

MAX. SLOPE LENGTH ABOVE FILTER SOCK					
SLOPE	RATIO (H:V)	8'	12'	18'	24'
0% - 2%	0 - 50:1	125'	250'	300'	350'
2% - 10%	50:1 - 10:1	100'	125'	200'	250'
10% - 20%	10:1 - 5:1	75'	100'	150'	200'

FILTER SOCK DETAIL
SCALE: NONE

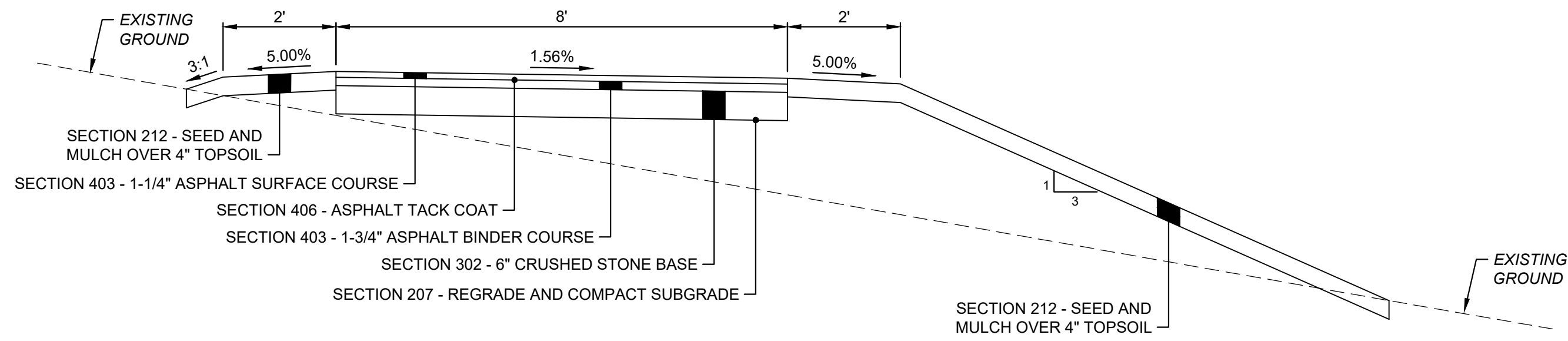


DATE	REVISION	NO	ISSUED FOR:	ISSUE DATE:	SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:
			BIDDING	10/29/2024	AS SHOWN	CMB	CMB	FVY

THE COMMONS AT HIGHLAND HEIGHTS
SHARED USE PATH
HIGHLAND HEIGHTS, KY

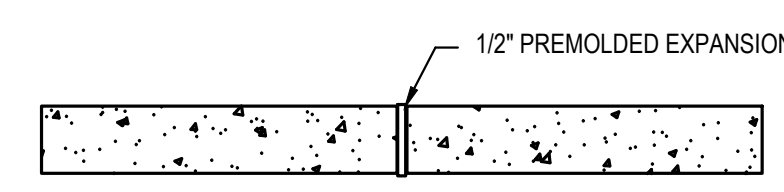
EROSION CONTROL DETAILS

PROJECT NO.	241829
DISCIPLINE	CIVIL
SHEET NAME	DET1
SHEET	OF
C8	C11

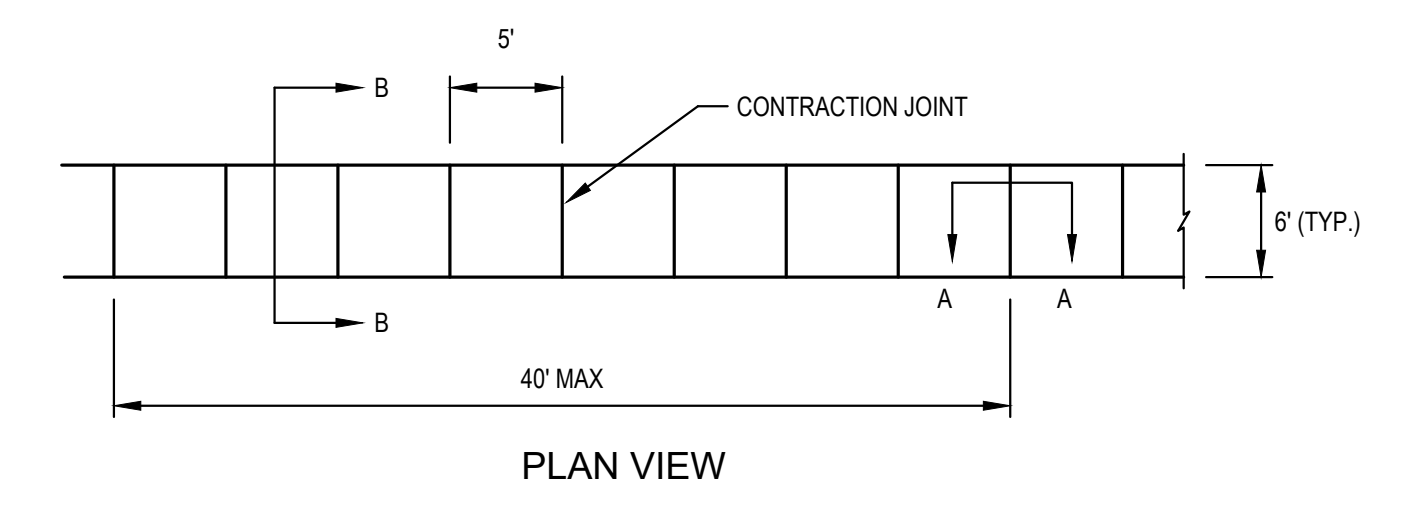


SHORT SHARED USE PATH (SEE PAGE C3)
TYPICAL CROSS-SECTION
 SCALE: NONE

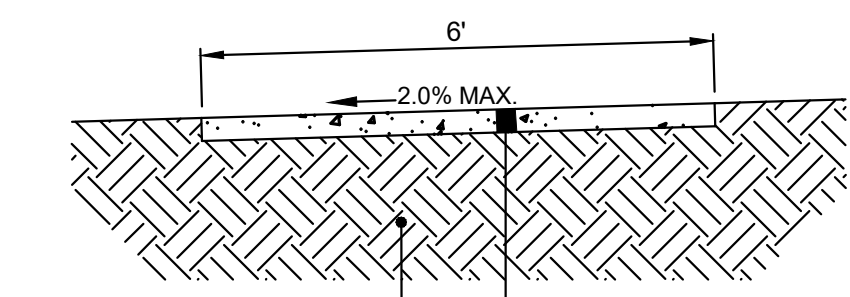
- ① ITEM 505 - 5" CONC WALK
- ② ITEM 207 - COMPACTED SUB GRADE



SECTION A

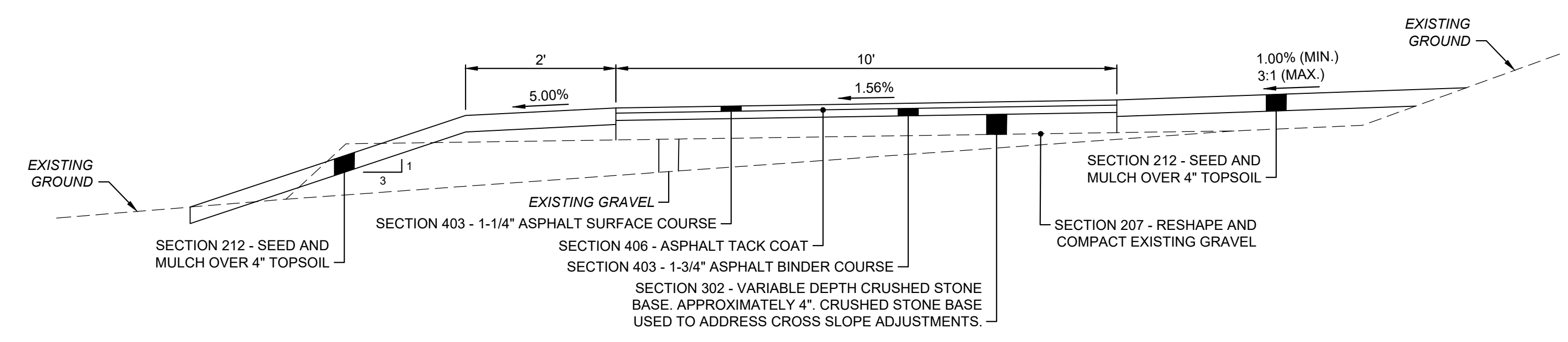


PLAN VIEW

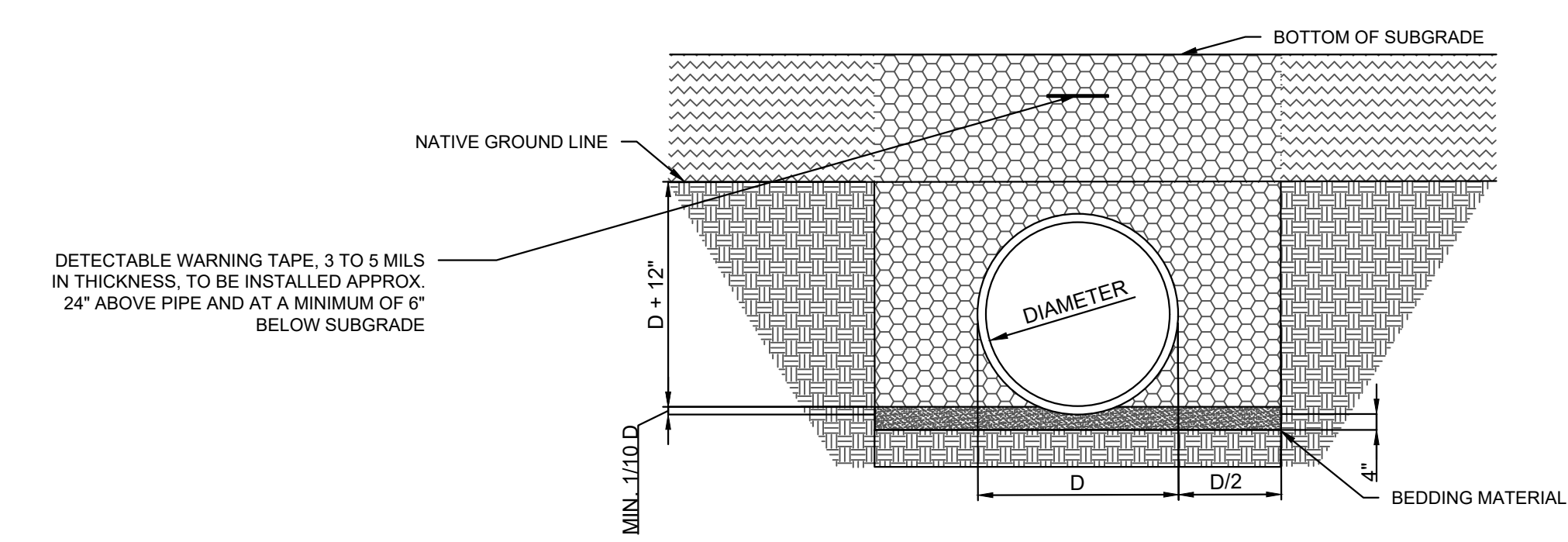


SECTION B

CONCRETE SIDEWALK DETAIL
 SCALE: NONE



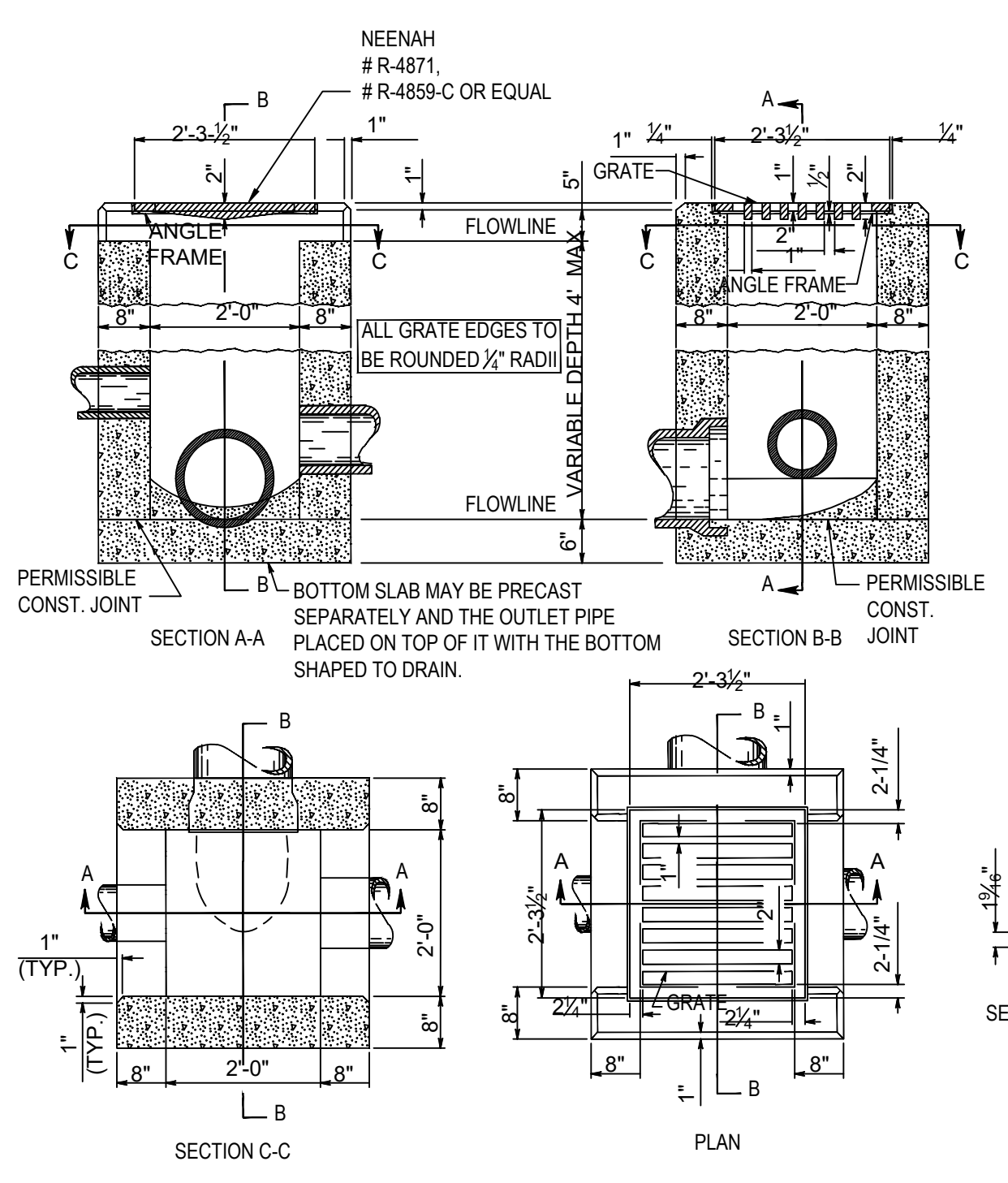
MAIN SHARED USE PATH (SEE PAGES C4-C5)
TYPICAL CROSS-SECTION
 SCALE: NONE



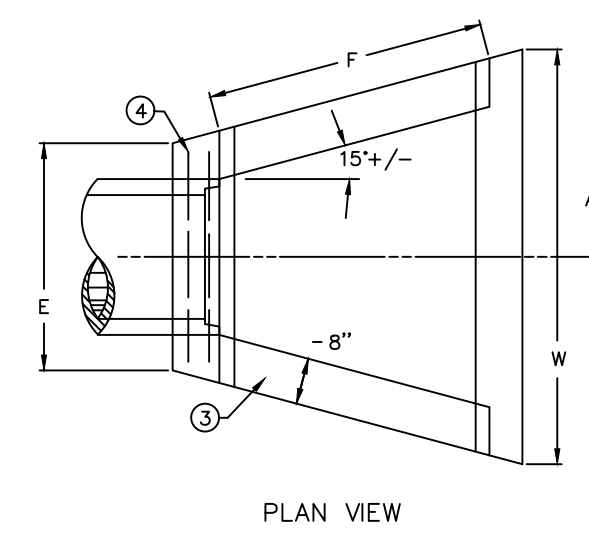
- BEDDING MATERIAL.
- GRANULAR BACKFILL ITEM 701.02.05
- EMBANKMENT

TYPICAL PIPE BACKFILL DETAIL
 SCALE: NONE

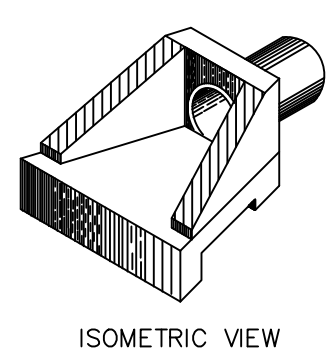
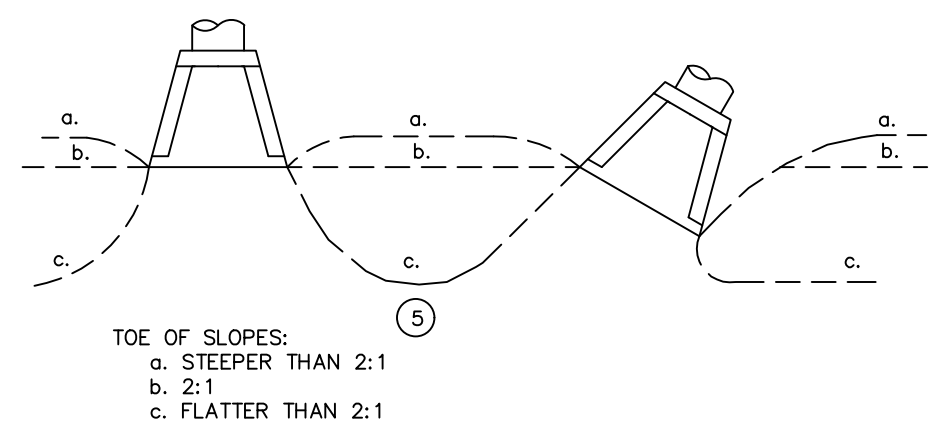
NOTES:
 CATCH BASIN IS NOT INTENDED FOR TRAFFIC BEARING APPLICATIONS
 GRATE AND FRAME: SEE SPECIFICATION SECTION 05540.
 WALLS: CAST-IN-PLACE WALLS HAVE A NOMINAL THICKNESS OF 8". PRECAST WALLS SHALL HAVE A MINIMUM THICKNESS OF 6" AND BE REINFORCED SUFFICIENTLY TO PERMIT SHIPPING AND HANDLING WITHOUT DAMAGE. CONCRETE SHALL MEET REQUIREMENTS OF SD1'S SPECIFICATIONS.
 PRECAST BASE: IT SHALL BE SET DEEP ENOUGH SO THAT THE TOP CAN BE PLACED ON THE BASE TO PROVIDE THE GRATE ELEVATION SPECIFIED IN THE PLANS. GRATE ADJUSTMENT SHALL BE MADE PER SD1'S SPECIFICATIONS.
 LOCATION AND ELEVATION: WHEN GIVEN ON THE PLANS, LOCATION AND ELEVATION ARE AT THE FLOWLINE CENTER OF THE GRATE.
 MINIMUM DEPTH: THE MINIMUM DEPTH SHALL BE THE OUTSIDE DIAMETER (O.D.) OF THE OUTLET PIPE PLUS 7".
 OPENINGS: PIPE OPENINGS SHALL BE THE O.D. OF THE PIPE BEING SUPPLIED PLUS 3" WHEN FABRICATED OR FIELD CUT. THE INTERSTITIAL SPACE SHALL BE FILLED WITH GROUT.
 SIDE INLETS: INLETS SHALL BE PROVIDED ON BOTH SIDES OF THE CATCH BASIN IN SAGS AND ON UPSTREAM SIDE ONLY WHERE THE DITCH HAS A CONTINUOUS DOWN GRADE PAST THE CATCH BASIN. SIDE INLETS SHALL NOT BE USED WITHIN THE CLEAR ZONE. THE FLOW LINE SHOULD BE 4" TO 6" BELOW THE NORMAL ELEVATION OF THE DITCH FLOW LINE, RETURNING TO NORMAL WITHIN 10' TO 15' OF THE BASIN.



CB2-2B (12" - 21" OUTLET PIPE)
 SCALE: NONE



PLAN VIEW



ISOMETRIC VIEW

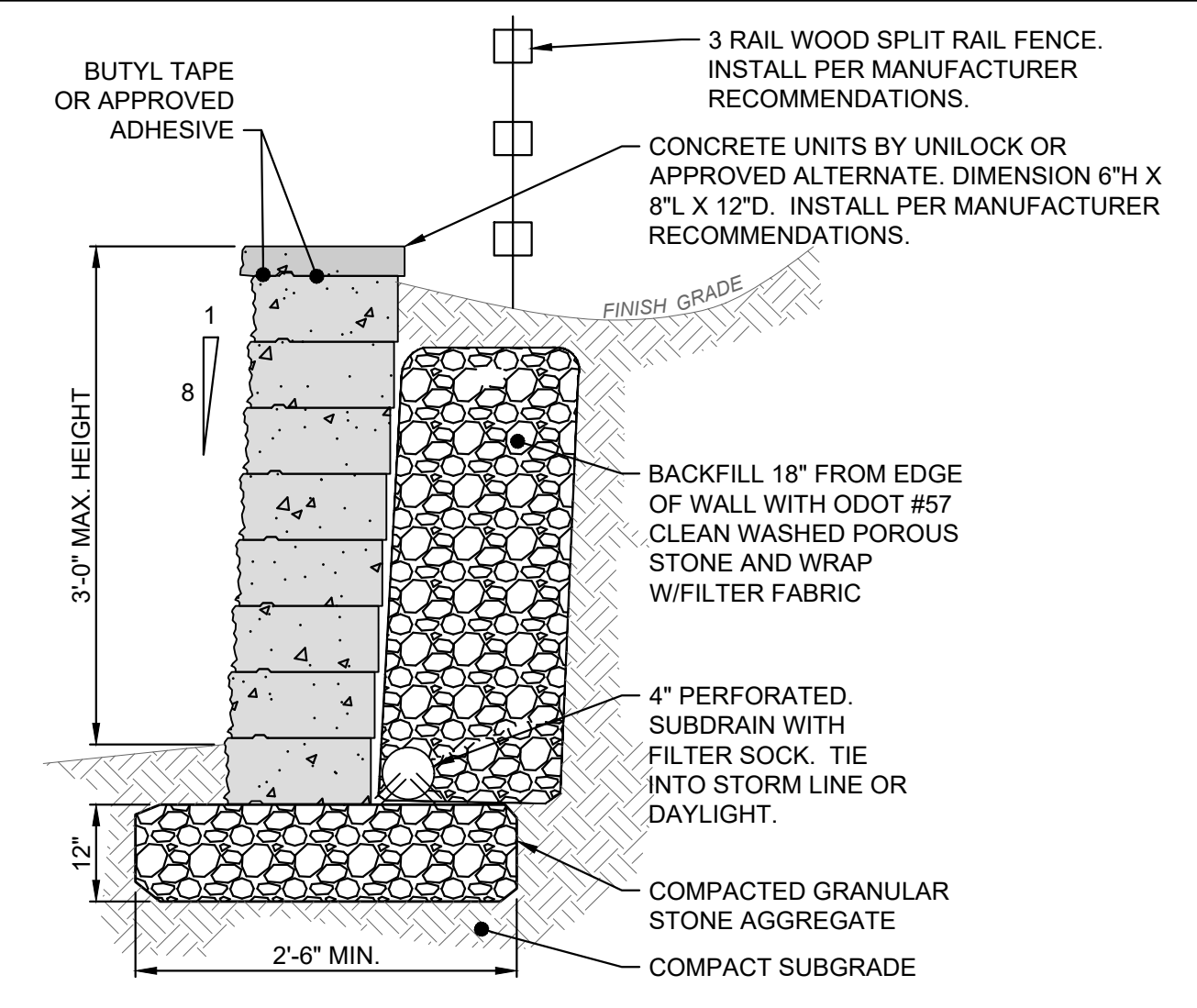
PIPE DIA. OR EQUIV. DIA.	DIMENSIONS						CLASS A CONC	REINF STEEL
	C	E	F	L	W	T		
12"	1'-9"	2'-6"	2'-3"	3'-6"	4'-0"	2"	0.58	7

NOTES

1. DIMENSIONS AND QUANTITIES ARE BASED ON CONCRETE PIPE AND WILL VARY INSIGNIFICANTLY FOR ALTERNATE PIPE MATERIALS.
2. REINFORCING STEEL : MINIMUM GRADE 40, BARS EVENLY SPACED.
- ③ 6 - NO. 4 x 1'-0" DOWEL BARS.
- ④ 2 - NO. 4 x (E DIMENSION MINUS 4")
- ⑤ SLOPES SHALL BE WARPED TO FIT HEADWALL WHEN PIPE IS SKEWED AND/OR NORMAL SLOPE VARIES FROM 2:1
- ⑥ VOLUME DISPLACED BY PIPE COMPUTED USING INSIDE DIAMETER OF PIPE.
7. WING ANGLES AND/OR DIMENSIONS MAY BE ALTERED DURING CONSTRUCTION TO ACCOMMODATE FLOW OF WATER.
8. APRON BETWEEN WINGS SHALL BE SLOPED IN DIRECTION OF FLOW EQUAL TO SLOPE OF PIPE. FRONT FACE OF HEADWALL SHALL REMAIN VERTICAL.
- ⑨ HEADWALLS ARE FOR CIRCULAR, ARCH, AND HORIZONTAL ELLIPTICAL 12" - 27" EQUIVALENT PIPE SIZES. SEE CURRENT KDOT STD. DWG. RDI-016, FOR NON-CIRCULAR PIPE EQUIVALENT SIZES.
10. ENCLOSURE GRATE SHALL BE INSTALLED PER DETAIL STM-19 FOR PIPE SIZES 24 INCHES DIAMETER AND UNDER.

- TOE OF SLOPES:
 a. STEEPER THAN 2:1
 b. 2:1
 c. FLATTER THAN 2:1

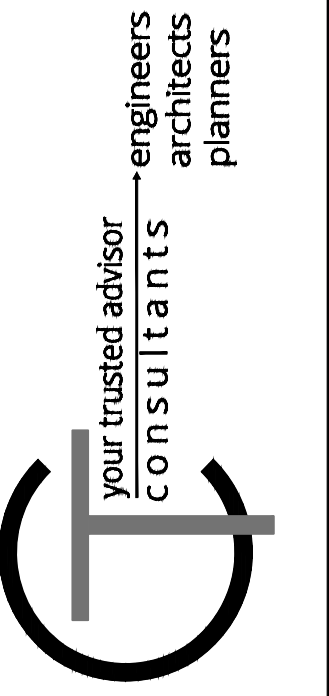
FLARED END SECTION DETAIL
 SCALE: NONE



NOTES:

1. THIS DETAIL IS FOR REFERENCE ONLY. IT SHOWS THE SITE-CIVIL ENGINEER'S DESIGN ASSUMPTIONS TO DETERMINE PROPOSED EARTHWORK GRADING AND SPOT GRADES SHOWN ON THE GRADING PLAN.
2. THIS IS NOT A RETAINING WALL DESIGN. CONTRACTOR TO PROVIDE SHOP DRAWING OF DESIGN.
3. IF POOR SOIL OR SUBSURFACE CONDITIONS ARE ENCOUNTERED, CONTACT GEOTECHNICAL AND STRUCTURAL ENGINEER PRIOR TO INSTALLATION.

MODULAR BLOCK WALL DETAIL
 SCALE: NONE



ISSUED FOR:	ISSUE DATE:	SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:
	10/29/2024	AS SHOWN			

NO	REVISION	DATE

THE COMMONS AT HIGHLAND HEIGHTS SHARED USE PATH HIGHLAND HEIGHTS, KY

CONSTRUCTION DETAILS

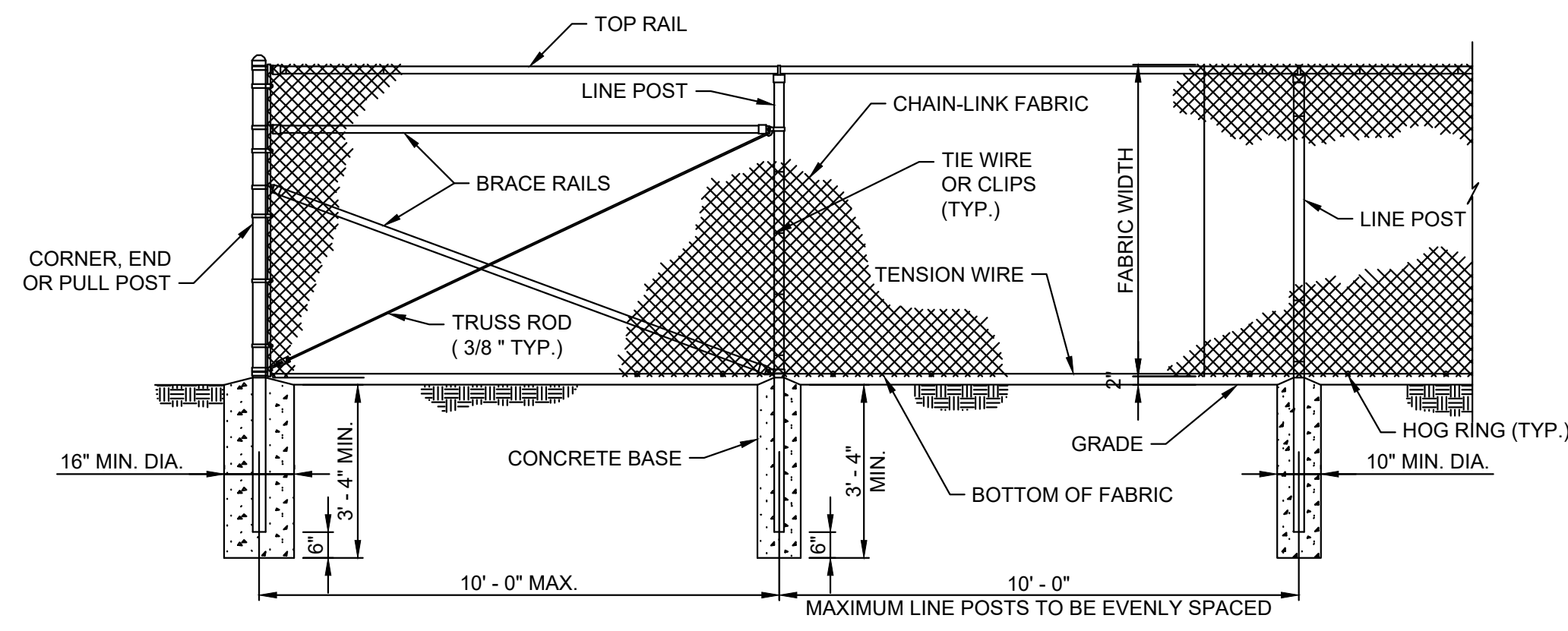
PROJECT NO. **241829**

DISCIPLINE **CIVIL**

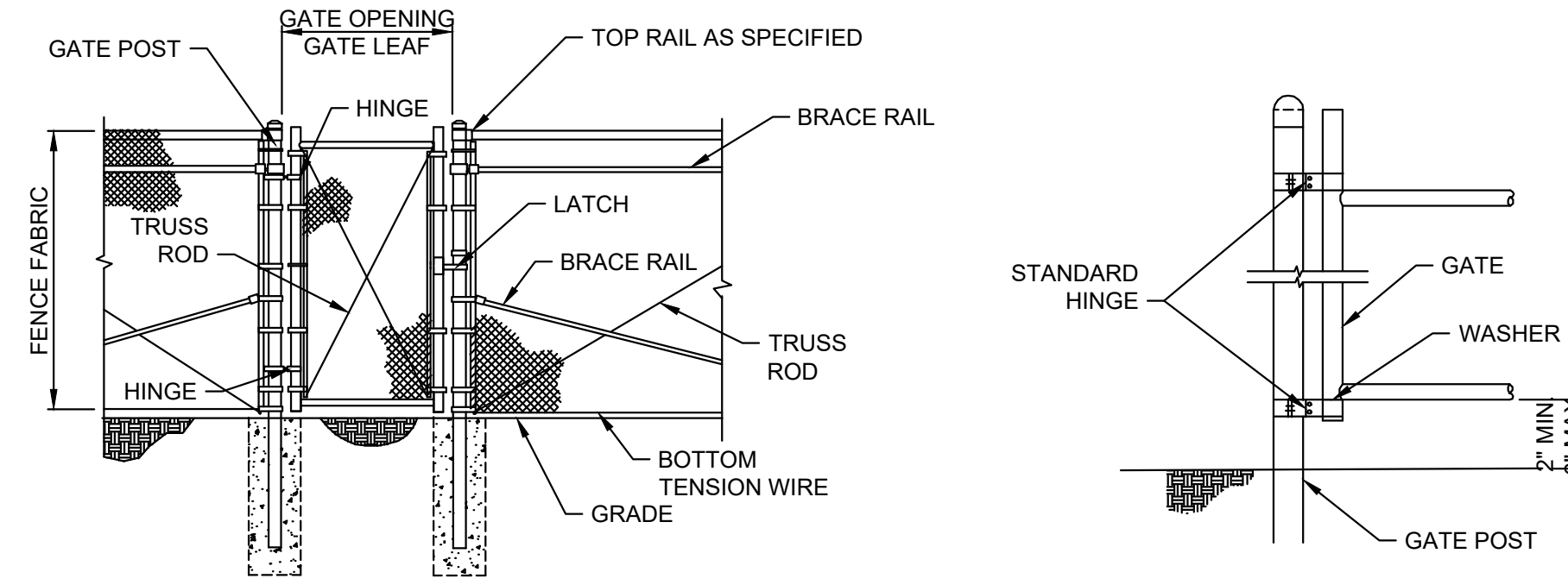
SHEET NAME **DET2**

SHEET **C9** OF **C11**

2" - 9 Gauge Core / 8 Gauge Finish Permafused (Fused and Adhered)



CHAIN-LINK FENCE DETAIL
SCALE: NONE



GATE DETAIL
SCALE: NONE

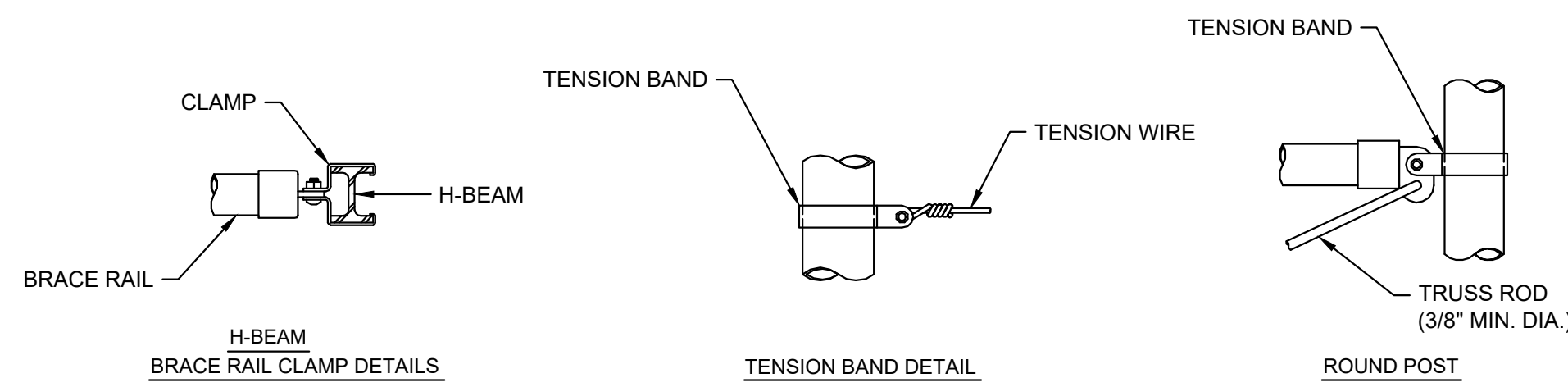
USE AND SECTION	STEEL POST SCHEDULE	
	MINIMUM OUTSIDE DIMENSIONS (NOMINAL)	
	FABRIC LESS THEN 72"	FABRIC OVER 96"
CORNER, END & PULL POSTS TUBULAR - ROUND	2.375" O.D.	4.00" O.D.
LINE POSTS TUBULAR - ROUND	1.90" O.D.	2.875" O.D.
CORNER, END & PULL POSTS TUBULAR - ROUND	1.66" O.D.	

GATE POST SCHEDULE	
GATE LEAF WIDTH (NOMINAL)	OUTSIDE DIMENSION (NOMINAL)
6' OR LESS	2.875" O.D. 2.5" SQ.
6' TO 13'	4" O.D.

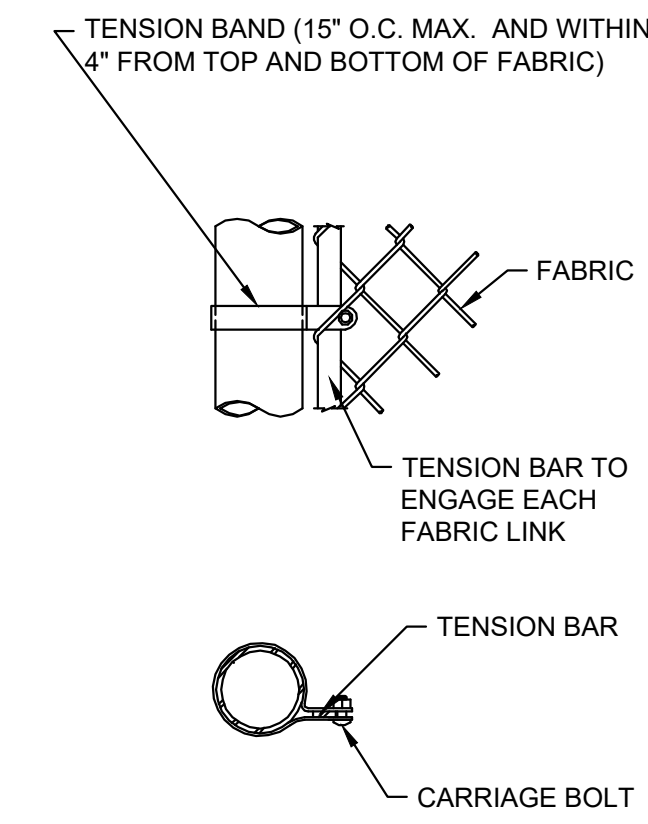
NOTES:

- ALL CHAIN-LINK MATERIALS AND INSTALLATION SHALL CONFORM TO SECTION 721 OF THE KYTC STANDARD SPECIFICATIONS. CHAIN LINK SHALL BE BLACK VINYL COATED.
- DETAILS SHOWN ARE TO CLARIFY REQUIREMENTS AND ARE NOT INTENDED TO LIMIT OTHER TYPES OF FENCE SECTIONS AND METHODS OF INSTALLATION.
- WIRE TIES, RAILS, POSTS AND BRACES SHALL BE CONSTRUCTED ON THE SECURE SIDE OF THE FENCE ALIGNMENT. CHAIN-LINK FABRIC SHALL BE PLACED ON THE OPPOSITE SIDE OF THE SECURE AREA.
- C-SECTION POSTS SHALL BE INSTALLED SO THAT THE VOID INSIDE THE POST IS COMPLETELY FILLED WITH CONCRETE UP TO THE TOP OF THE FOUNDATION.
- SWING GATES SHALL BE CONSTRUCTED WITH DROP RODS, PADLOCK, LATCH ASSEMBLY AND GATE KEEPERS EXCEPT WHERE NOTED.
- ALL GATE FRAMES SHALL BE A MINIMUM 1.90" NOMINAL (ROUND) OR 2.00" NOMINAL (SQUARE). GATE FRAMES SHALL BE OF WELDED CONSTRUCTION OR SHALL BE ASSEMBLED USING HEAVY FITTINGS. AT CONTRACTOR'S OPTION A WELDED HORIZONTAL BRACE MAY BE USED IN LIEU OF TRUSS RODS TO BRACE ALL WELDED GATE FRAMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER RIGID CONSTRUCTION OF ALL GATES SUPPLIED.

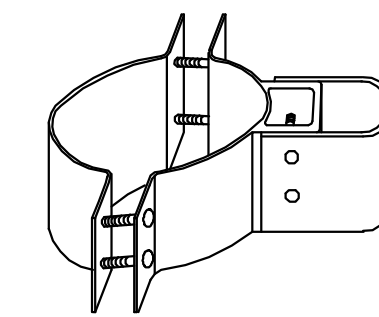
CHAIN-LINK FENCE NOTES
SCALE: NONE



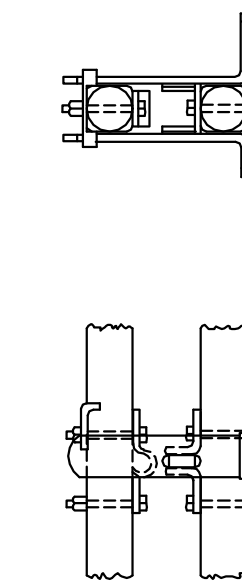
FASTENING DETAIL
SCALE: NONE



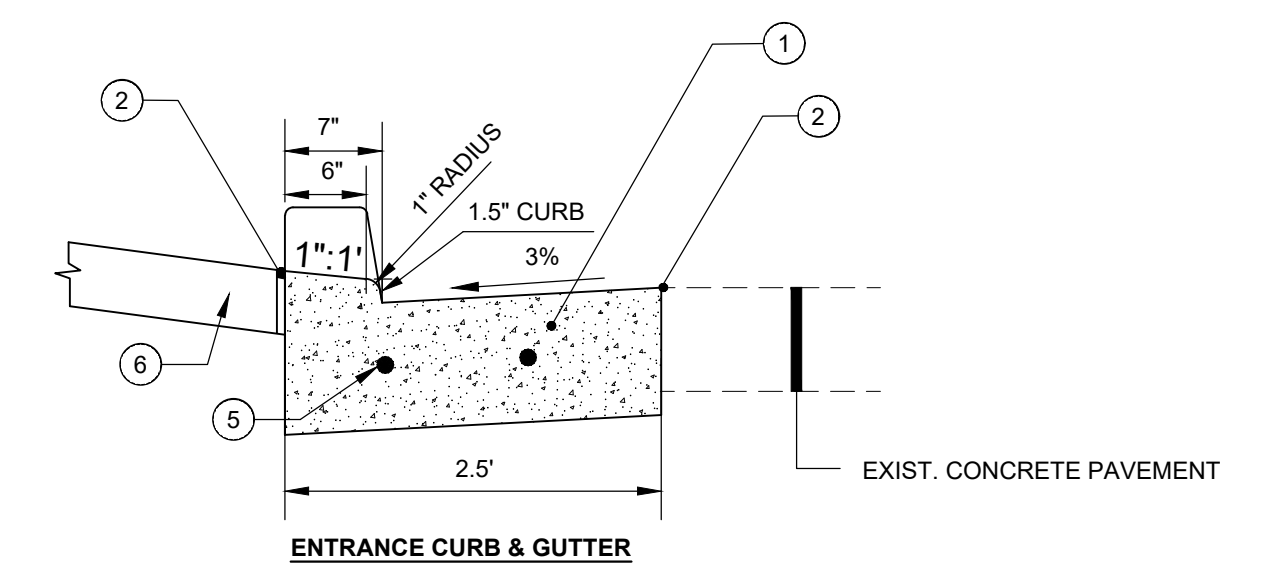
END OR GATE POST DETAIL
NTS



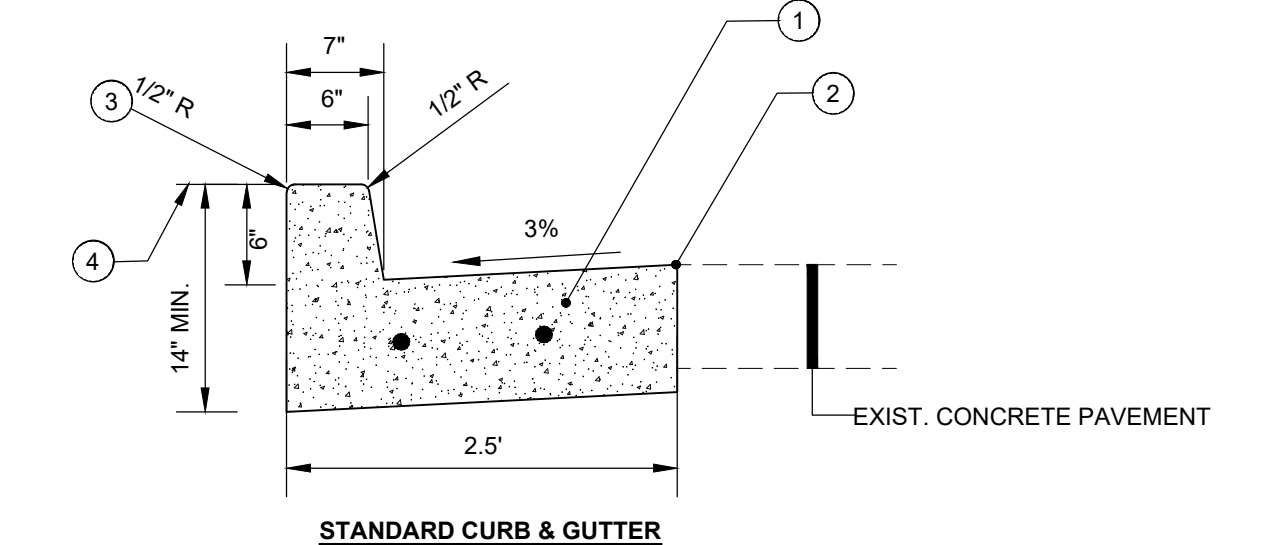
STANDARD HINGE
NTS



LATCH ASSEMBLY
NTS



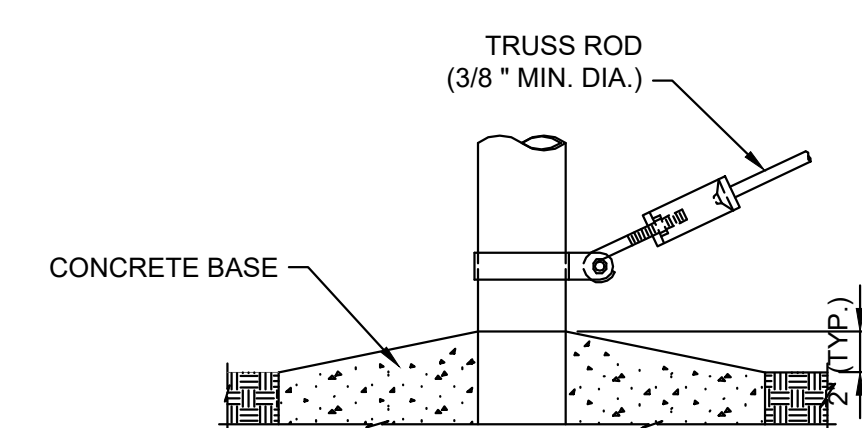
ENTRANCE CURB & GUTTER



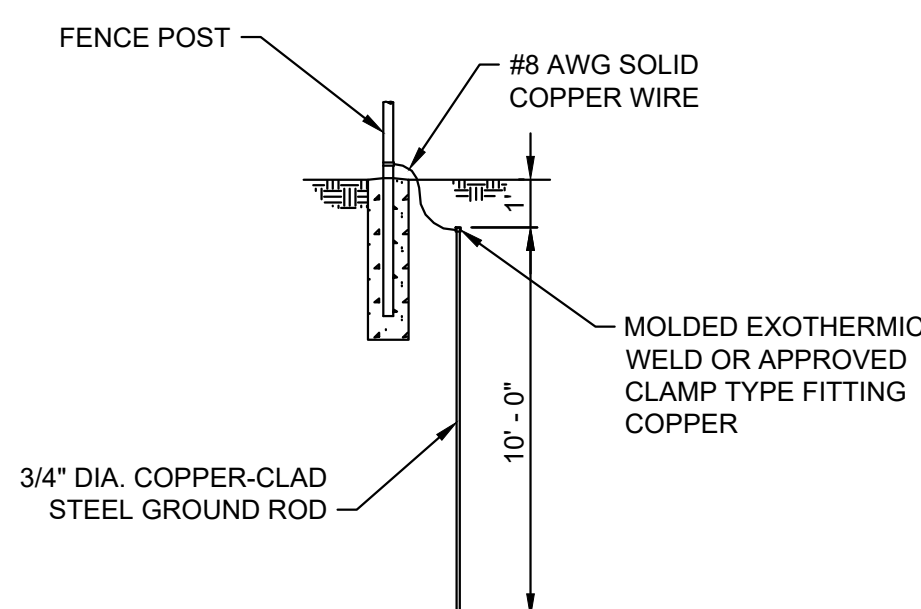
STANDARD CURB & GUTTER

- SAWCUT AND REMOVE EXISTING CURB (INCIDENTAL)
- 1" EXPANSION JOINT MATERIAL
- TOP/EDGE OF REPLACEMENT CURB TO MATCH LINE & GRADE OF ADJACENT EXISTING CURB
- YARD RESTORATION (4" TOPSOIL, SEED AND MULCH) - INCIDENTAL TO CURB REPLACEMENT
- 3/4" DIA. DOWELS 18" LONG - DRILL 9" MIN. INTO EXIST. CURB
- CONCRETE SIDEWALK REPLACEMENT AS PER PLAN

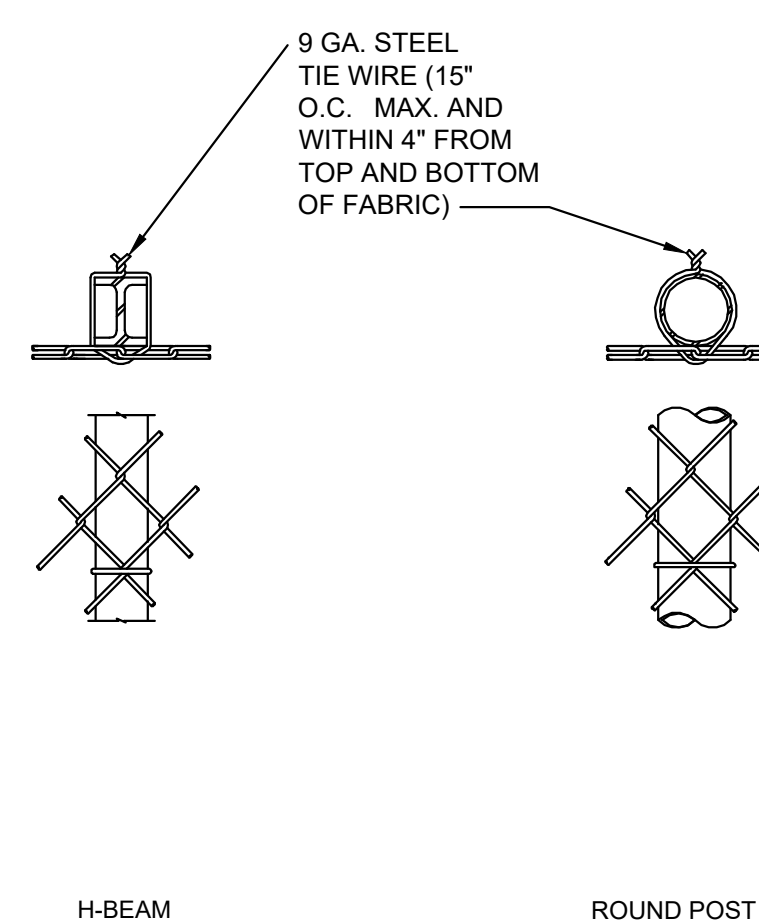
6" CONCRETE VERTICAL CURB & GUTTER REPLACEMENT *
N.T.S.



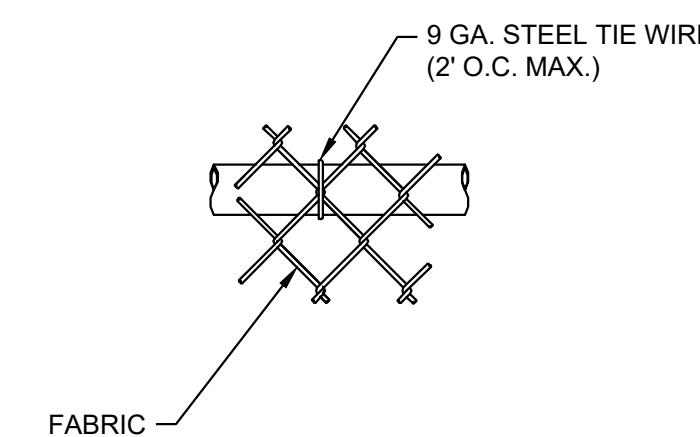
TRUSS ROD AND BAND



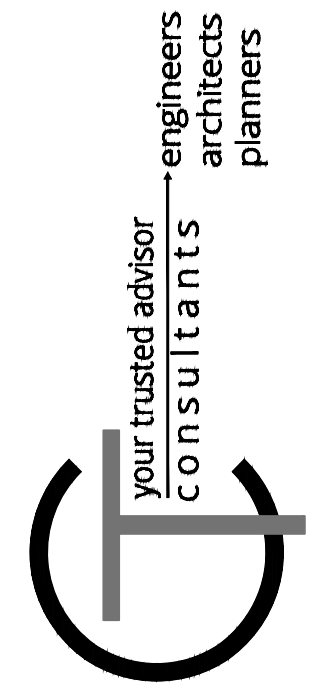
GROUNDING DETAIL



LINE POST ATTACHMENT



TOP OR BRACE RAIL ATTACHMENT



NO.	REVISION	DATE

ISSUED FOR:	BIDDING	NO.
ISSUE DATE:	10/29/2024	
SCALE:	AS SHOWN	
DESIGNED BY:	CMB	
DRAWN BY:	CMB	
CHECKED BY:	FVIT	

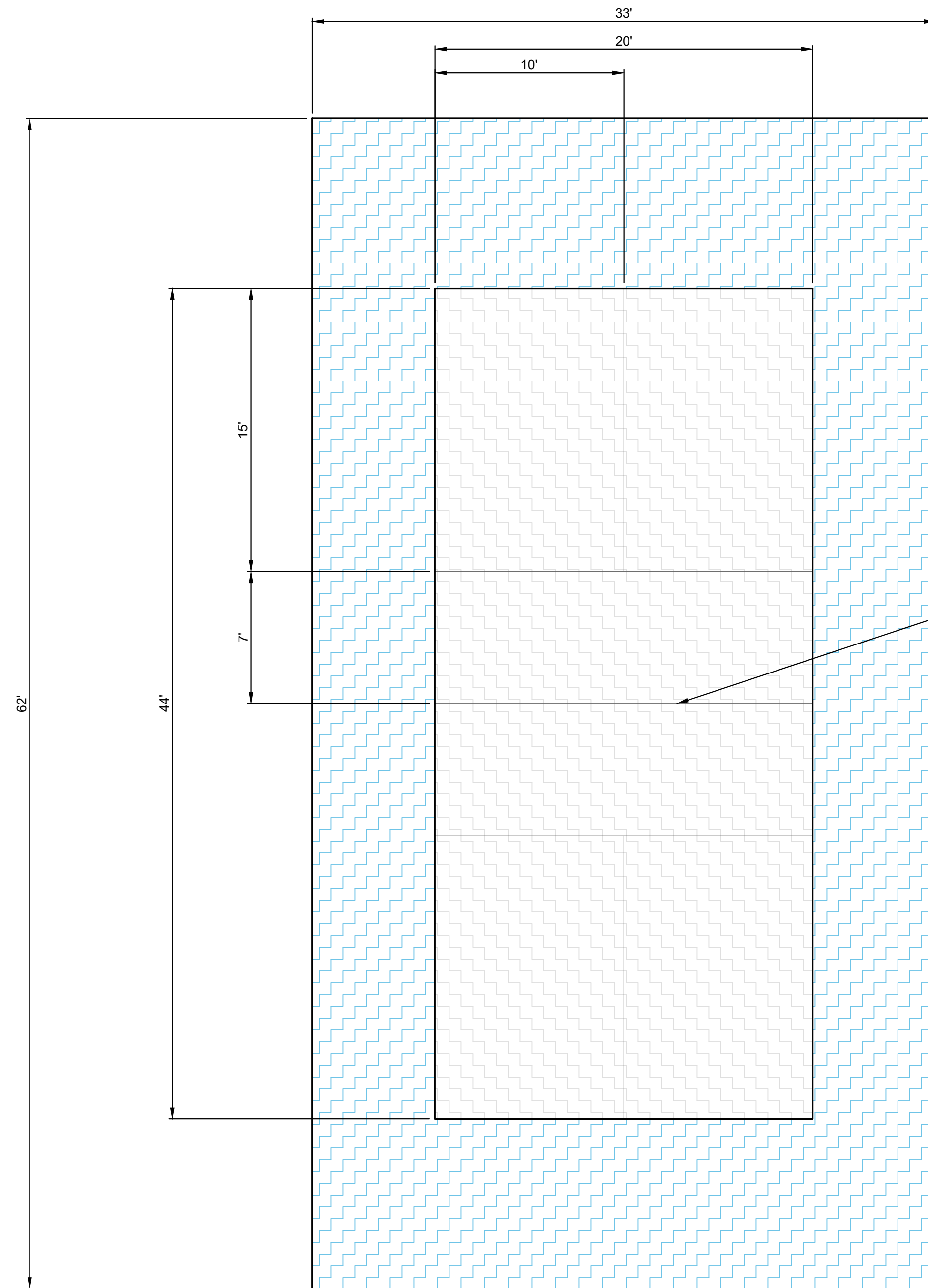
PROJECT NO.	241829
DISCIPLINE	CIVIL
SHEET NAME	DET3
SHEET	OF
C10	C11

**THE COMMONS AT HIGHLAND HEIGHTS
SHARED USE PATH
HIGHLAND HEIGHTS, KY**

CONSTRUCTION DETAILS

NOTES:

BASIC BID - ACRYLIC COLOR:
 ACRYLIC COLOR COATING FOR COURT SURFACE. DYNAFLEX MATERIALS OR APPROVED EQUAL (2 COAT RESURFACER, 3 COATS OF COLOR COATING). INCLUDES ANY REQUIRED LEVELING OF ASPHALT SURFACE WITH DYNABINDER QUICK PATCH BINDER.



INSTALL PERMANENT NET PER MANUFACTURER'S SPECIFICATIONS

COURT COLORING HATCH LEGEND

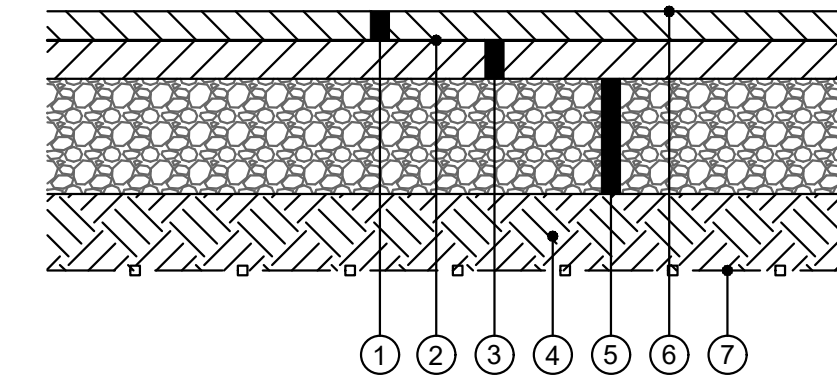
COLORS TO BE APPROVED BY OWNER AFTER SELECTING FROM CONTRACTOR-SUPPLIED SAMPLE PRODUCTS

- COLOR : TO BE DETERMINED
- COLOR : TO BE DETERMINED
- STRIPING TO BE 2" WIDE WHITE.

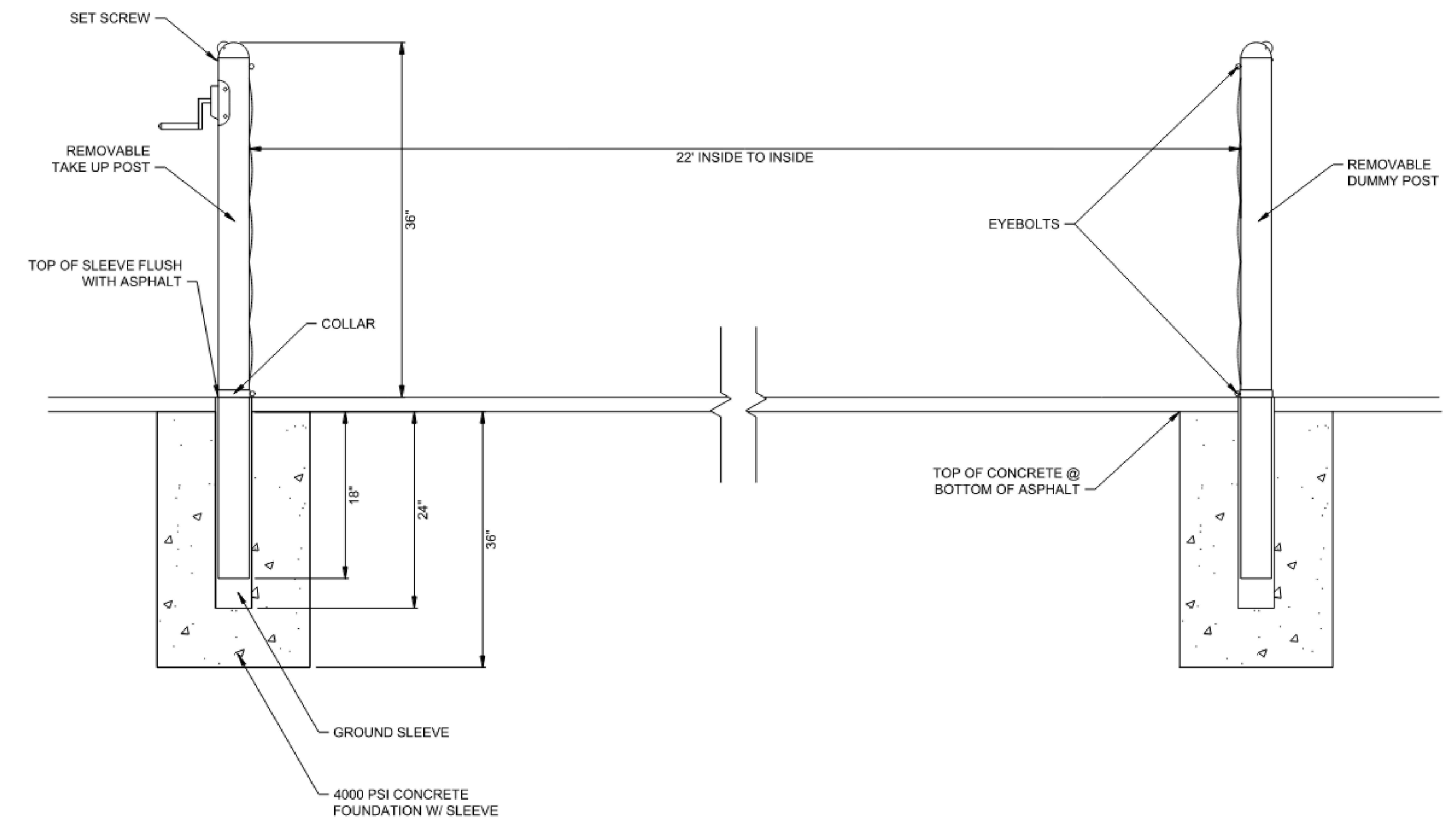
PICKLE BALL COURT
 SCALE: 1" = 5'

- ① ITEM 403 - 1-1/2" ASPHALT SURFACE COURSE, CL2 0.38D PG64-22
- ② ITEM 406 - NON-TRACKING TACK COAT INTERMEDIATE COURSE @ 0.1 GAL/ SY
- ③ ITEM 403 - 2" ASPHALT BINDER COURSE, CL2 0.5D PG64-22
- ④ ITEM 207 - COMPACTED SUBGRADE
- ⑤ ITEM 302 - 8" CRUSHED STONE BASE
- ⑥ ACRYLIC COLOR COATING FOR COURT SURFACE
- ⑦ ITEM 214 - TRI-AXIAL GEOGRID (TENSAR TX-140 OR EQUAL)*

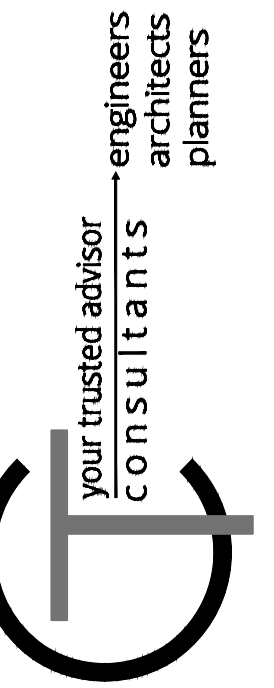
*TO BE USED AT ENGINEER'S DISCRETION



PICKLE BALL COURT PAVEMENT DETAIL
 NTS



PICKLE BALL NET DETAIL
 NTS



NO	REVISION	DATE

ISSUED FOR: BIDDING
 ISSUE DATE: 10/29/2024
 SCALE: AS SHOWN
 DESIGNED BY: CMB
 DRAWN BY: CMB
 CHECKED BY: FWT

PROJECT NO.
241829
 DISCIPLINE
CIVIL
 SHEET NAME
DET4
 SHEET OF
C11 C11