



WILLIAM J. GRIGGS CENTER
PHASE II POOL AND PAVILION
ROUGH GRADING - PACKAGE NO.1
FOR
TROUP COUNTY PARKS AND RECREATION

716 GLENN ROBERTSON DRIVE
LAGRANGE, GEORGIA

(ARCHITECTURAL AND CIVIL)

PROJECT NUMBER 2312-A

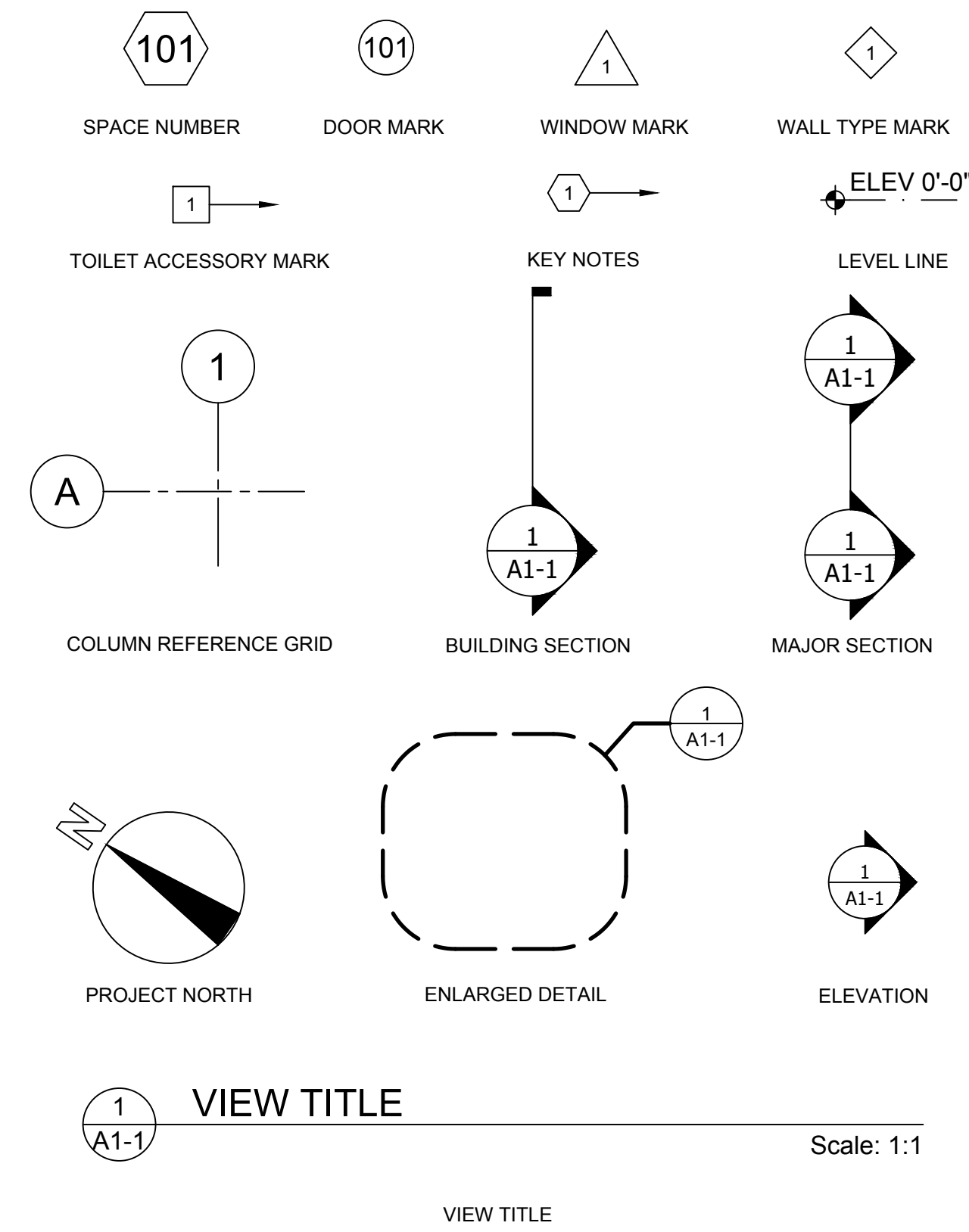
FOR PERMIT AND BIDDING

03 AUGUST 2023

ABBREVIATIONS:

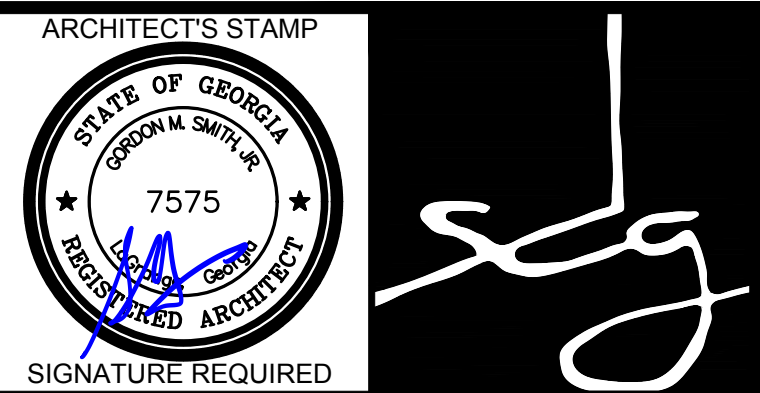
@	At	JAN.	Janitor
A.B.	Anchor Bolt	J.B.	Joist Bearing
A.C.	Air Conditioner	J.S.T.	Joist
ACOUST.	Acoustical	J.T.	Joist
ALUM.	Aluminum		
ARCH.	Architectural		
A.T.	Acoustical Tile		
		LAV.	Lavatory
		LLV.	Long Leg Vertical
B.C.	Bottom of Curb	MAS., MSRY	Masonry
BLK.	Block	MCS	Modular Cabinet System
BOTT.	Bottom	MECH.	Mechanical
		MIN.	Minimum
		N	North
CER.	Ceramic	NA	Not Applicable
CHM.	Custom Hollow Metal	N.I.C.	Not In Contract
C.I.	Curb Inlet	NTS	Not to Scale
CLO.	Closet	O.C.	On Center
CMU.	Concrete Masonry Unit	OPP.	Opposite
C.O.	Clean Out		
COL.	Column	PL	Plate
CONC.	Concrete	PT	Pressure Treated
CONST.	Construction	PEJ	Premolded Expansion
CONT.	Continuous	PLAST	Plaster
C.T.	Ceramic Tile	PSF	Pounds Per Square Foot
CHR.	Coat & Hat Rack	PSI	Pounds Per Square Inch
C.J.	Control Joint		
		R	Radius
D. DIAM.	Diameter	REF	Refrigerator
DF	Drink Fountain	REQ'D	Required
DI	Drain Inlet	RL	Roof Level
DN	Down	RM	Room
DRIV.	Driver	RT	Resilient Tile
DS	Downspout	RW	Regular Weight Round
DWGS.	Drawings		
DWLS.	Dowels	SQ.	Square
DR	Drawer	SIM	Similar
		SLV	Short Leg Vertical
E.J.; EXP. JT.	Expansion Joint	S.M.	Sheet Metal
EL.; ELEV	Elevation	STL	Steel
EQ	Equal	STO.; STOR	Storage
EQUIP.	Equipment	STRUCT.	Structural
E.F.I.S.	Exterior Finish Insulation System	SH	Shelves
F.E.	Fire Extinguisher	TC	Teacher Cabinet
F.H.	Fire Hose	T.C.	Top of Curb
FES	Fire Extinguisher Sign	TD	Turn Down
FIN.	Finish	TFF	Top of Finished Floor
FLEX.	Flexible	TFS	Top of Finished Slab
FLR.	Floor	T & G	Tongue and Groove
FT.	Foot	T.M.	Transitional Material
FTG.	Footing	TP	Top of Pavement
		T/S	Top of Steel
		TYP.	Typical
GA	Gauge	U.N.O.	Unless Noted Otherwise
G.C.	General Contractor		
GYP. BRD.	Gypsum Wallboard	V.C.J.	Veneer Control Joint
		VERT.	Vertical
H	Height	VRS	Varies
HC	Handicapped	VWC	Vinyl Wall Covering
HCM	Hollow Concrete Masonry		
HORIZ.	Horizontal	W	Width
HW	Hand Wash	W/	With
		W.C.	Water Cooler
I.D.	Inside Diameter	WD	Wood
IND.	Industrial	WWF	Welded Wire Fabric
INV.	Invert		

INDEX OF SYMBOLS:



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SP-4	SITE PLAN - PHASE 2
SP-5	SITE SECTIONS - PHASE 2
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SD-2	PHASE 2 - SITE PLAN
SD-3	PHASE 2 - GRADING PLAN
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SD-14	PHASE 2 - STANDARD SPECIFICATIONS SHEET 3
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SD-16	PHASE 2 - EROSION CONTROL MONITORING PLAN



SMITH DESIGN GROUP, INC.
 206 WEST HARALSON STREET
 LAGRANGE, GEORGIA 30240
 706-882-5511

CONSTRUCTION MATERIALS:

PLAN / SECTION

	face brick
	hollow concrete masonry
	gypsum wallboard
	ceramic/quarry tile
	acoustical tile
	resilient flooring
	carpet
	steel/iron
	aluminum
	small scale metal
	rough lumber
	large scale finish lumber
	small scale finish lumber
	large scale plywood
	small scale plywood
	batt/blanket insulation
	laminated plastic

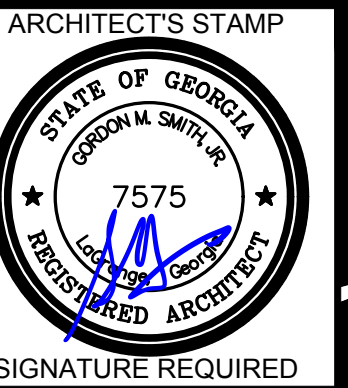
REVISIONS

DATE	DESCRIPTION

PROJECT:
**WILLIAM J GRIGGS CENTER
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TITLE:
**INDEX OF SHEETS
 ABBREVIATIONS
 LEGENDS**

MODIFIED DATE:	JOB NO: 2312-A
ISSUED DATE: FOR BIDDING AND PERMIT 03 AUG 2023	SHEET: G-2



Green M. Smith

SMITH DESIGN GROUP, INC.
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 LAGRANGE, GEORGIA 30240
 706-882-5511

LEGEND
 ELP EXISTING LIGHT POLE OR UTILITY POLE TO REMAIN

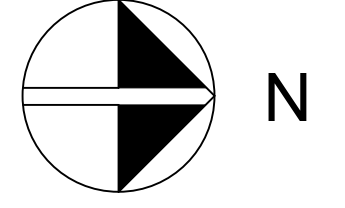
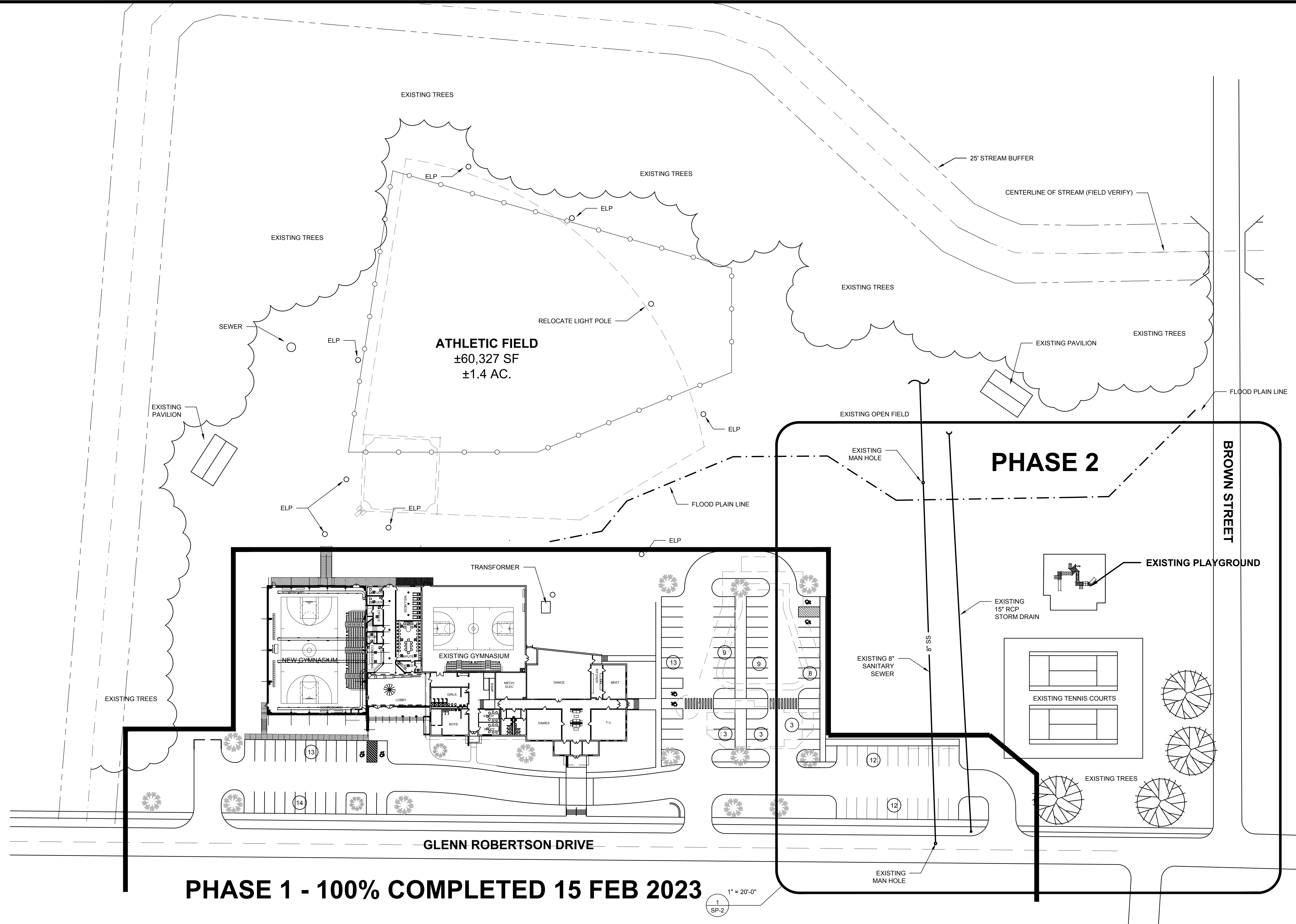
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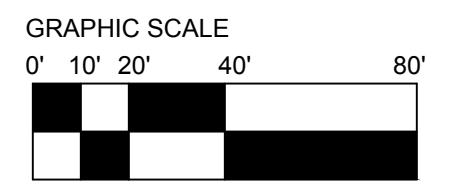
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TITLE:
 SITE UNDERSTANDING

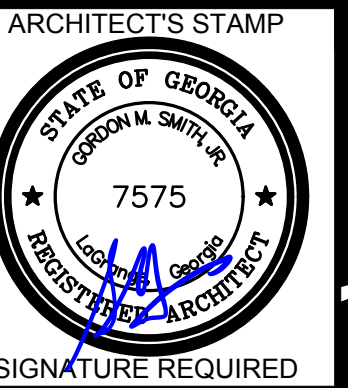
MODIFIED DATE:	JOB NO: 2312-A
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1 SITE PLAN - SITE UNDERSTANDING
 Scale: 40' = 1'-0"



1" = 20'-0"
 1 SP-2



Signature

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 706-882-5511

LEGEND

ELP EXISTING LIGHT POLE OR UTILITY POLE TO REMAIN

6' HIGH MOVABLE CONSTRUCTION FENCE WITH SCREEN AND SAND BAG ON BACK SIDE OF EXISTING SIDEWALK

708 EXISTING CONTOUR

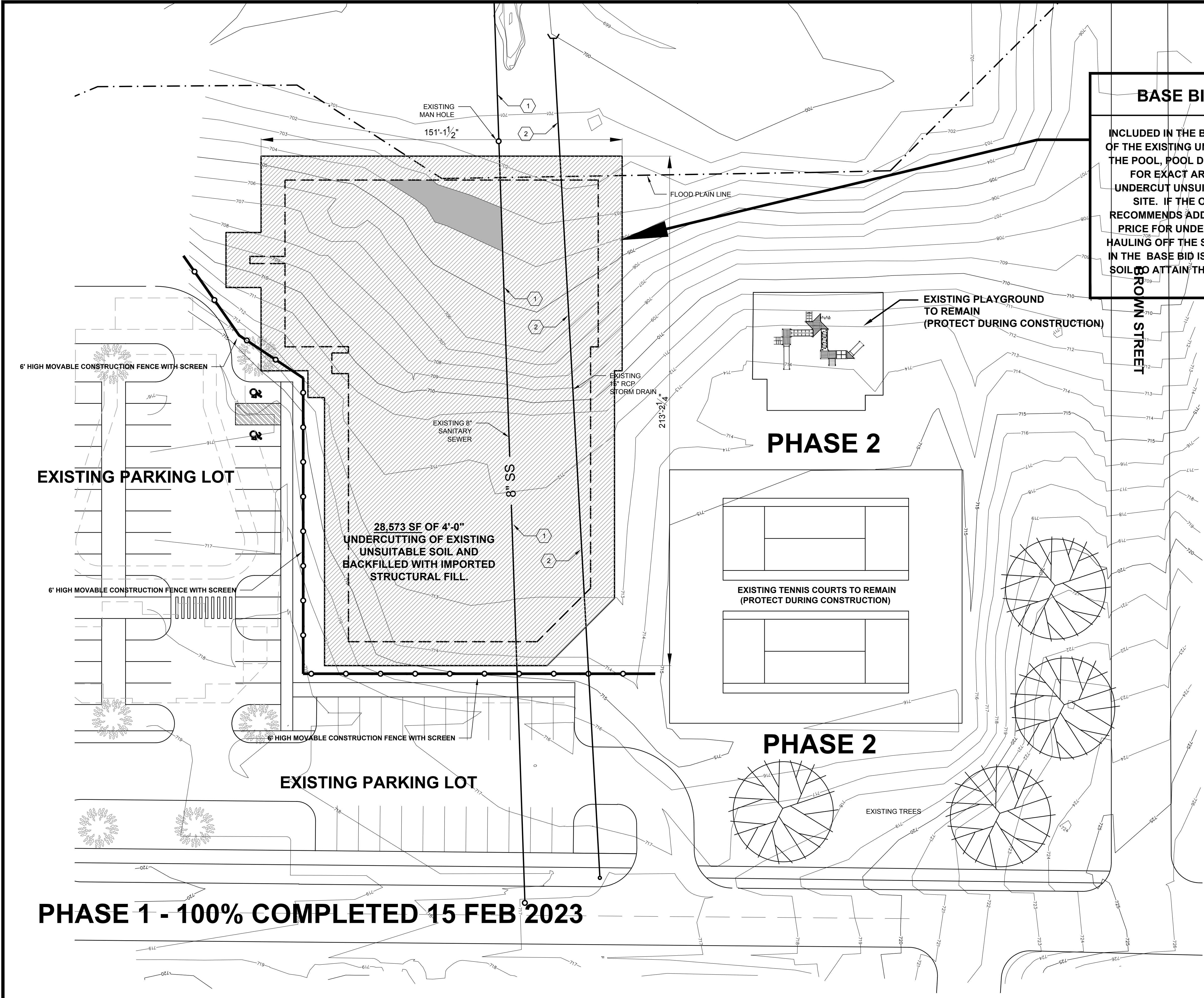
KEYNOTES

1 AFTER INSTALLATION OF NEW 8" SANITARY SEWER LINE REMOVE EXISTING SEWER LINE UNDER POOL AND POOL PAVILION. BACKFILL TRENCH WITH COMPACTED IMPORTED STRUCTURAL FILL. SEE CIVIL DRAWINGS.

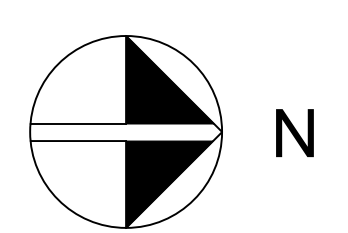
2 AFTER INSTALLATION OF NEW 15" STORM DRAIN PIPE REMOVE EXISTING 15" STORM DRAIN PIPE UNDER POOL AND POOL PAVILION. BACKFILL TRENCH WITH COMPACTED IMPORTED STRUCTURAL FILL. SEE CIVIL DRAWINGS.

BASE BID UNDERCUTTING

INCLUDED IN THE BASE BID IS UNDERCUTTING OF 4'-0" OF THE EXISTING UNSUITABLE SOIL FOR 10'-0" OUTSIDE THE POOL, POOL DECK AND PAVILION. SEE DRAWINGS FOR EXACT AREA TO BE UNDERCUT 4'-0". THE UNDERCUT UNSUITABLE SOIL IS TO BE HAULED OFF SITE. IF THE OWNER'S GEO-TECHNICAL FIRM RECOMMENDS ADDITIONAL UNDERCUTTING, THE UNIT PRICE FOR UNDERCUTTING UNSUITABLE SOIL AND HAULING OFF THE SITE WILL BE USED. ALSO INCLUDED IN THE BASE BID IS IMPORTING ADDITIONAL SUITABLE SOIL TO ATTAIN THE NEW ROUGH GRADES SHOWN ON THE DRAWINGS.



PHASE 1 - 100% COMPLETED 15 FEB 2023



1 SITE PREPARATION - PHASE 2
 SP-2 Scale: 1" = 20'-0"

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TITLE:
**PHASE 2
 SITE PREPARATION**

MODIFIED DATE:	JOB NO: 2312-A
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03 AUG 2023	



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LEGEND

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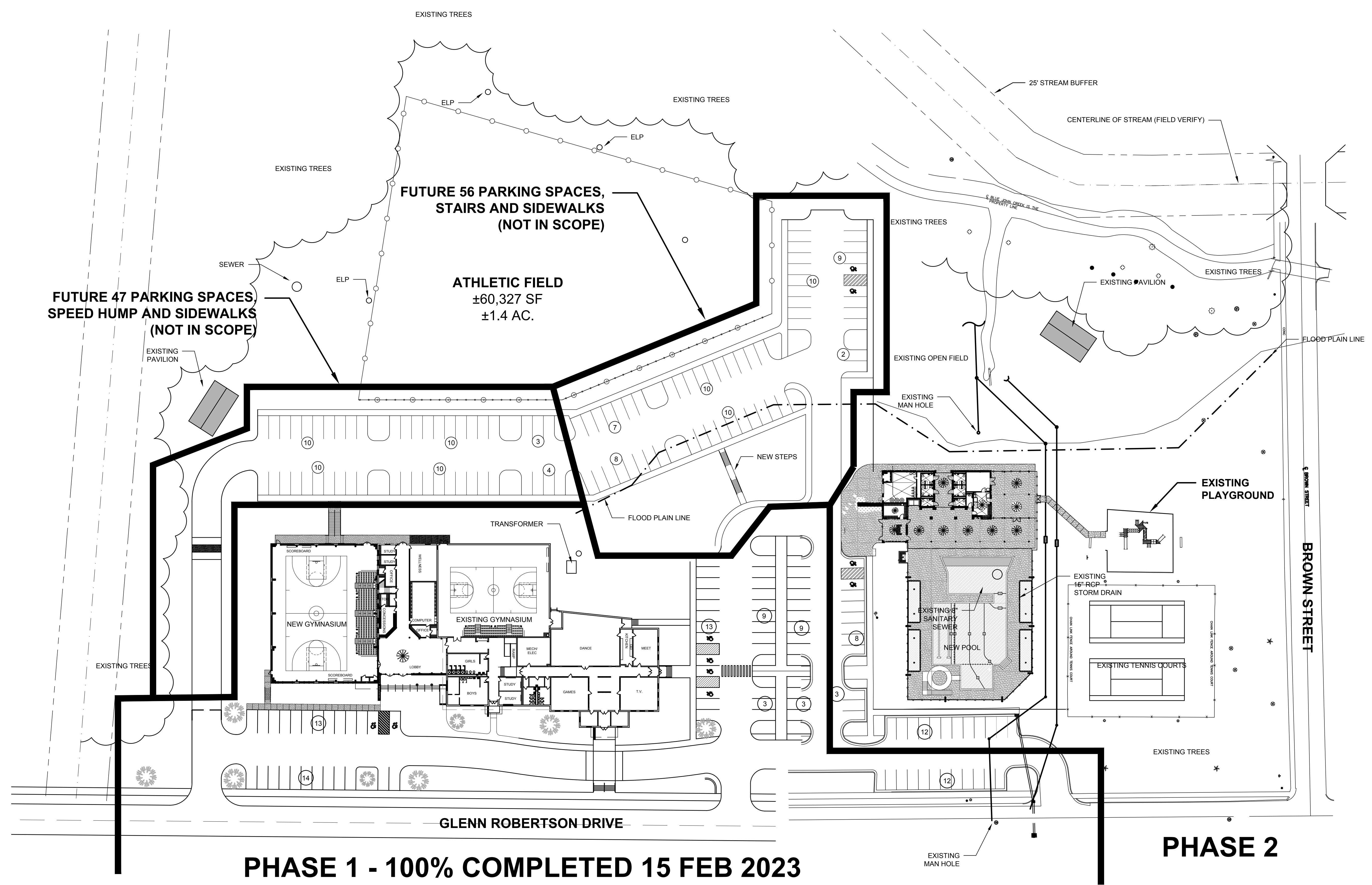
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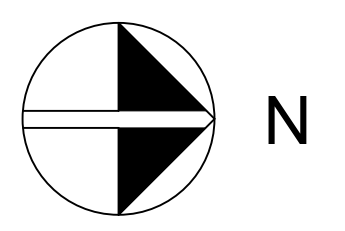
TITLE:
 SITE PLAN
 PHASE 2
 PROPOSED

MODIFIED DATE:	JOB NO: 2312-A
ISSUED DATE: FOR BIDDING AND PERMIT 03 AUG 2023	SHEET: SP-3

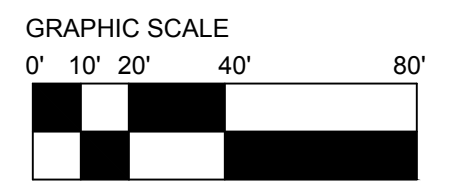


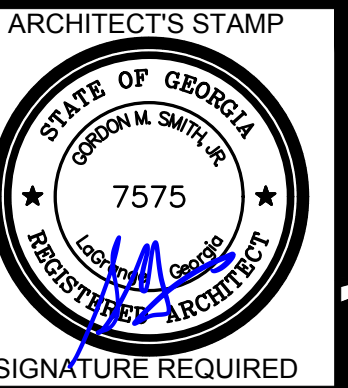
PHASE 1 - 100% COMPLETED 15 FEB 2023

PHASE 2



1 SITE PLAN - PROPOSED (PHASE 2)
 Scale: 40' = 1'-0"





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POOL, POOL DECK, PAVILION AND FINISH GRADING ARE NOT IN THIS SCOPE OF WORK.

10' X 10' GRID @ 1" = 20'-0"

REVISIONS

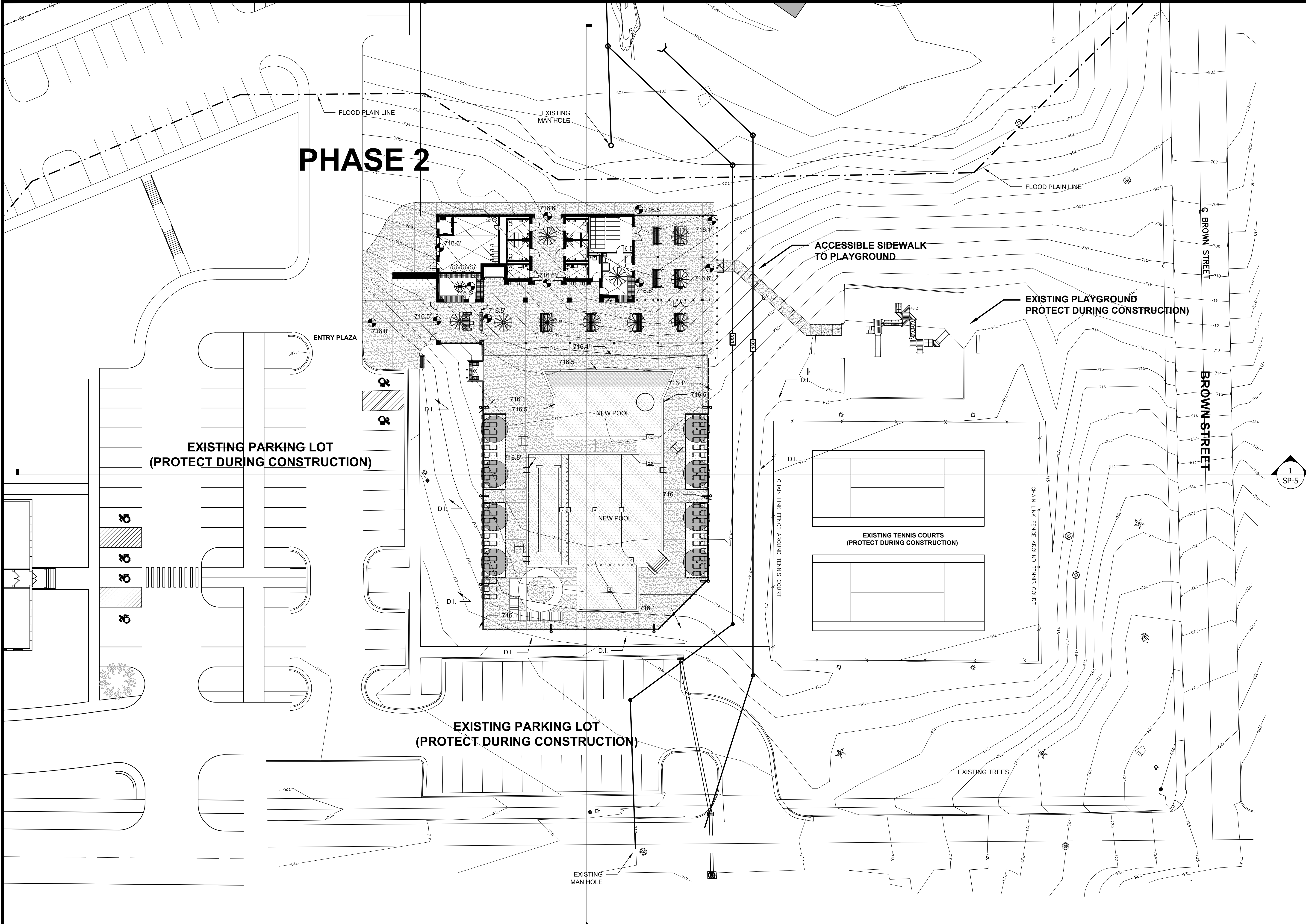
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**PHASE 2
 SITE PLAN**

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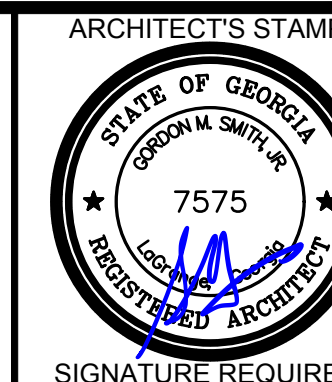
PHASE 2



**PHASE 2 REDEVELOPMENT PLAN
 SITE PLAN - PROPOSED**
 Scale: 1" = 20'-0"

2
SP-5

1
SP-4



Green M. Smith

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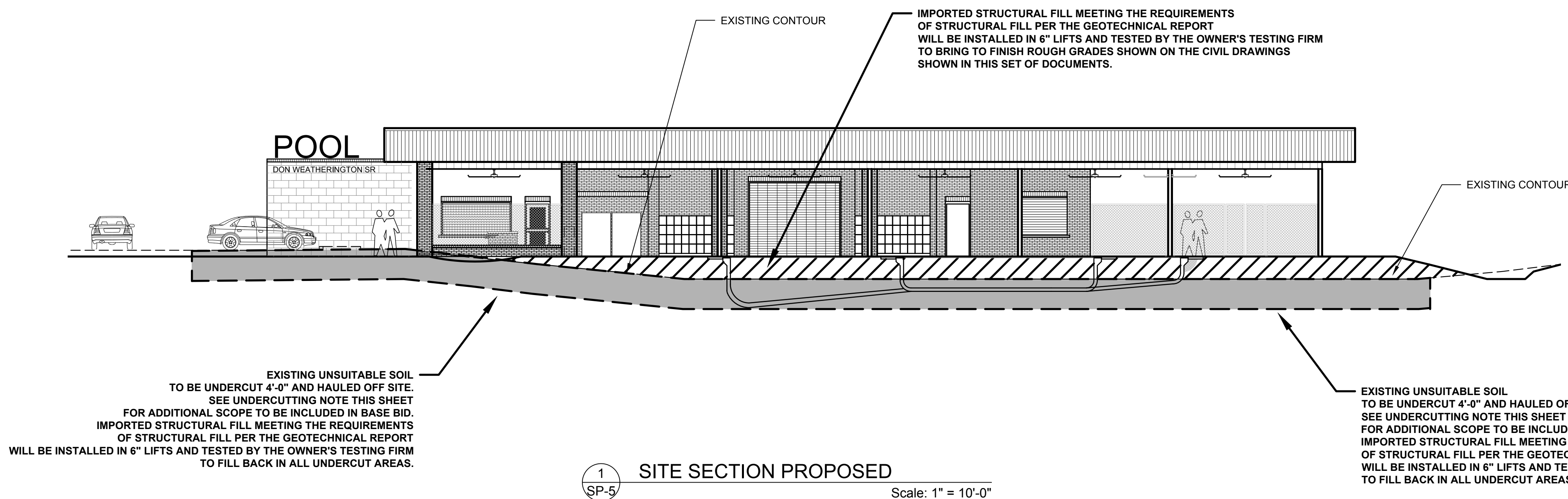
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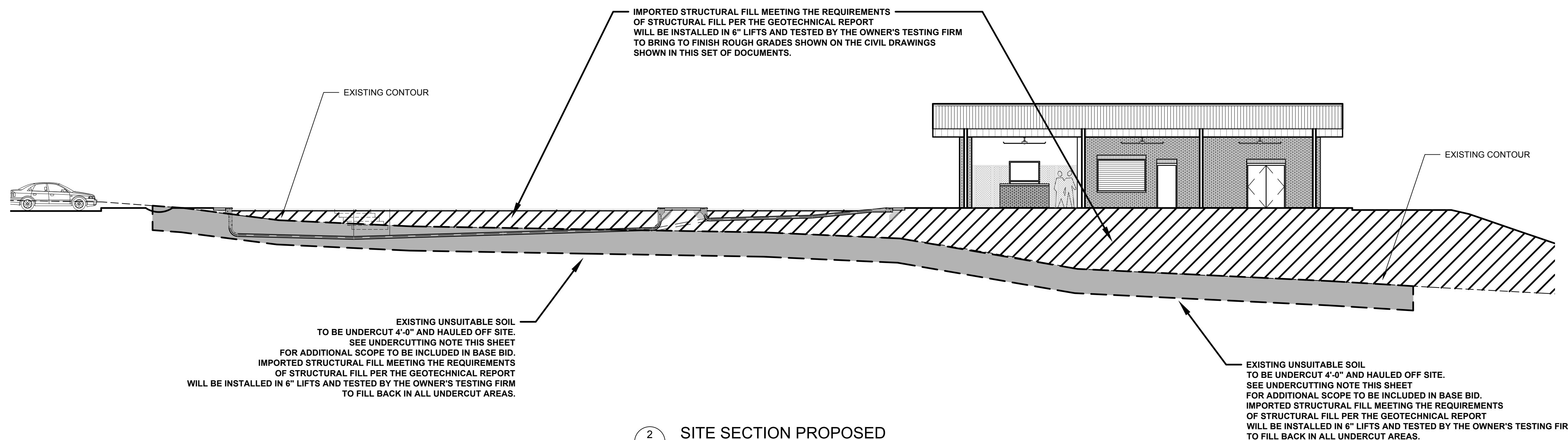
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1 SITE SECTION PROPOSED
Scale: 1" = 10'-0"



2 SITE SECTION PROPOSED
Scale: 1" = 10'-0"

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TITLE:
POOL SITE SECTIONS
PHASE 2

MODIFIED DATE:

JOB NO:

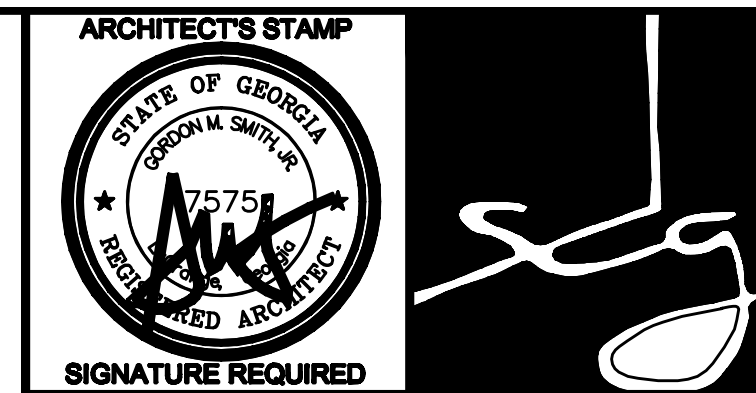
2312-A

ISSUED DATE:

SHEET:

FOR BIDDING AND PERMIT
03 AUG 2023

SP-5



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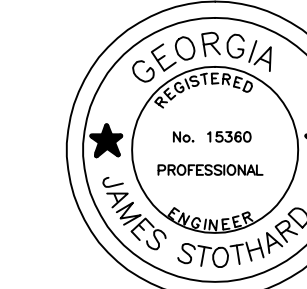
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LAGRANGE, GEORGIA 30240

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STOTHARD ENGINEERING, INC.

1008 COLQUITT ST.
LAGRANGE, GA
30241

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email: stothard@stothard-engineering.com



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POOL AND PAVILION**

**TROUP COUNTY PARKS AND RECREATION
716 GLENN ROBERTSON DRIVE
LAGRANGE, GEORGIA**

TITLE:

**PHASE 2
EXISTING SITE PLAN**

MODIFIED DATE:

JOB NO:

2312

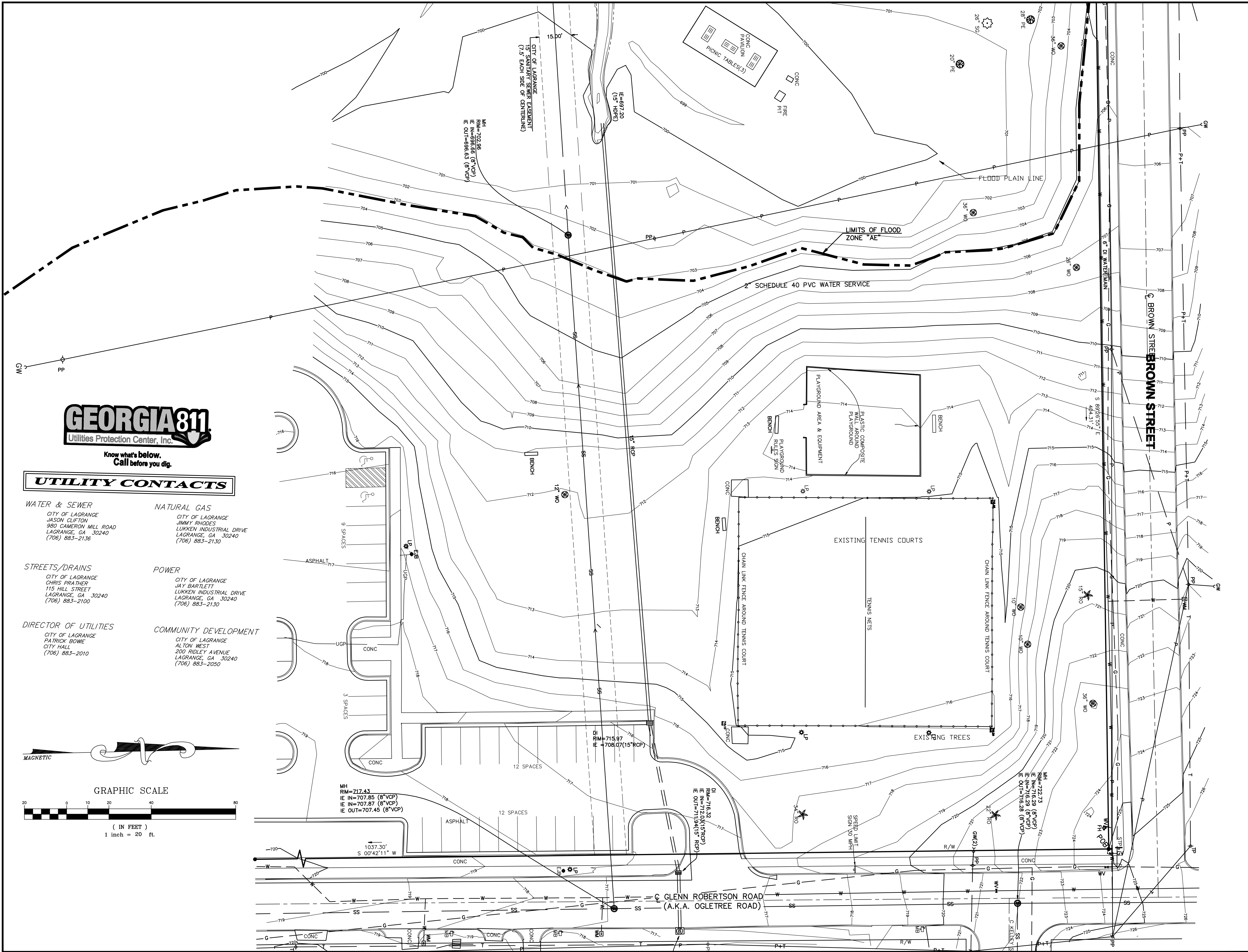
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SHEET:

SD-1

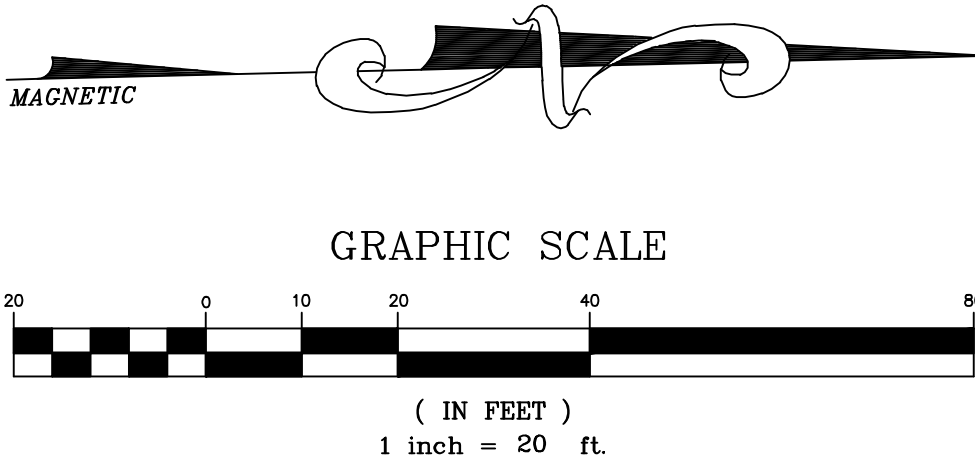
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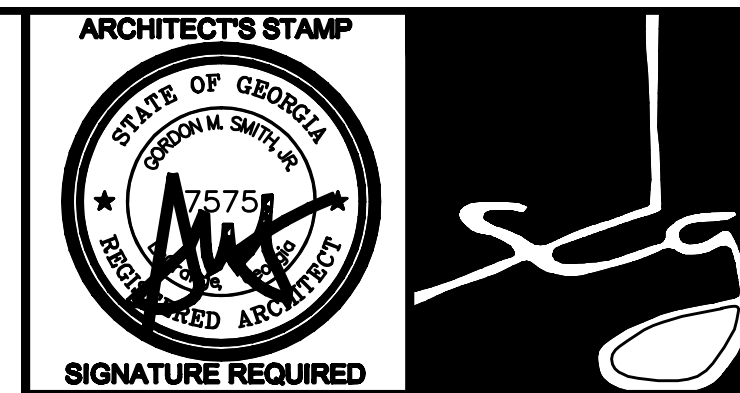
13 JULY 2023



UTILITY CONTACTS

- WATER & SEWER**
CITY OF LAGRANGE
JASON CLIFTON
980 CAMERON MILL ROAD
LAGRANGE, GA 30240
(706) 883-2136
- NATURAL GAS**
CITY OF LAGRANGE
JIMMY RHODES
LUKKEN INDUSTRIAL DRIVE
LAGRANGE, GA 30240
(706) 883-2130
- STREETS/DRAINS**
CITY OF LAGRANGE
CHRIS PRAETHER
115 HILL STREET
LAGRANGE, GA 30240
(706) 883-2100
- POWER**
CITY OF LAGRANGE
JAY BARTLETT
LUKKEN INDUSTRIAL DRIVE
LAGRANGE, GA 30240
(706) 883-2130
- DIRECTOR OF UTILITIES**
CITY OF LAGRANGE
PATRICK BOWE
CITY HALL
(706) 883-2010
- COMMUNITY DEVELOPMENT**
CITY OF LAGRANGE
ALTON WEST
200 RIDLEY AVENUE
LAGRANGE, GA 30240
(706) 883-2050





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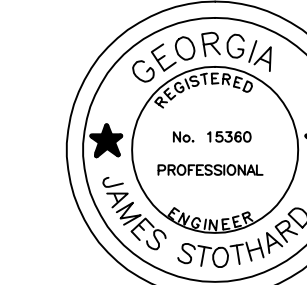
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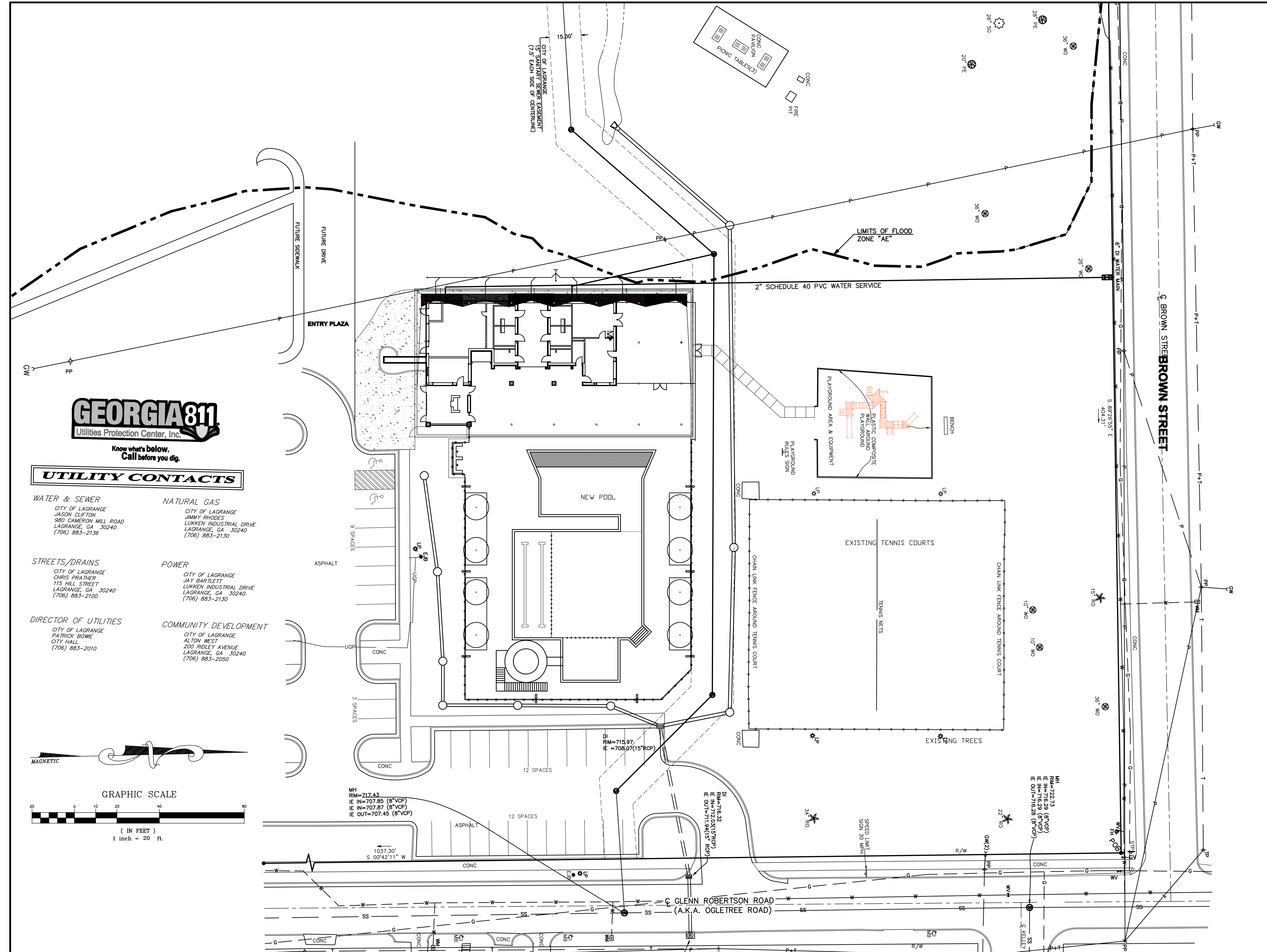
**PHASE 2
SITE PLAN**

MODIFIED DATE: JOB NO:

2312

ISSUED DATE: SHEET:

FOR BIDDING AND PERMIT
13 JULY 2023 **SD-2**



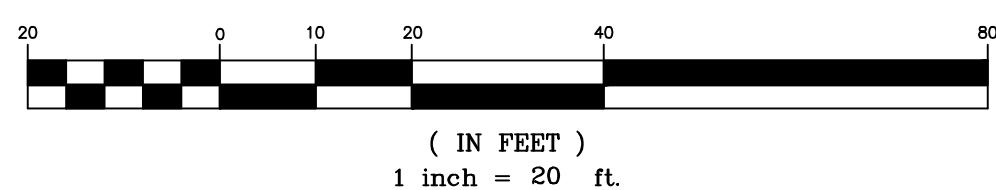
Know what's below.
Call before you dig.

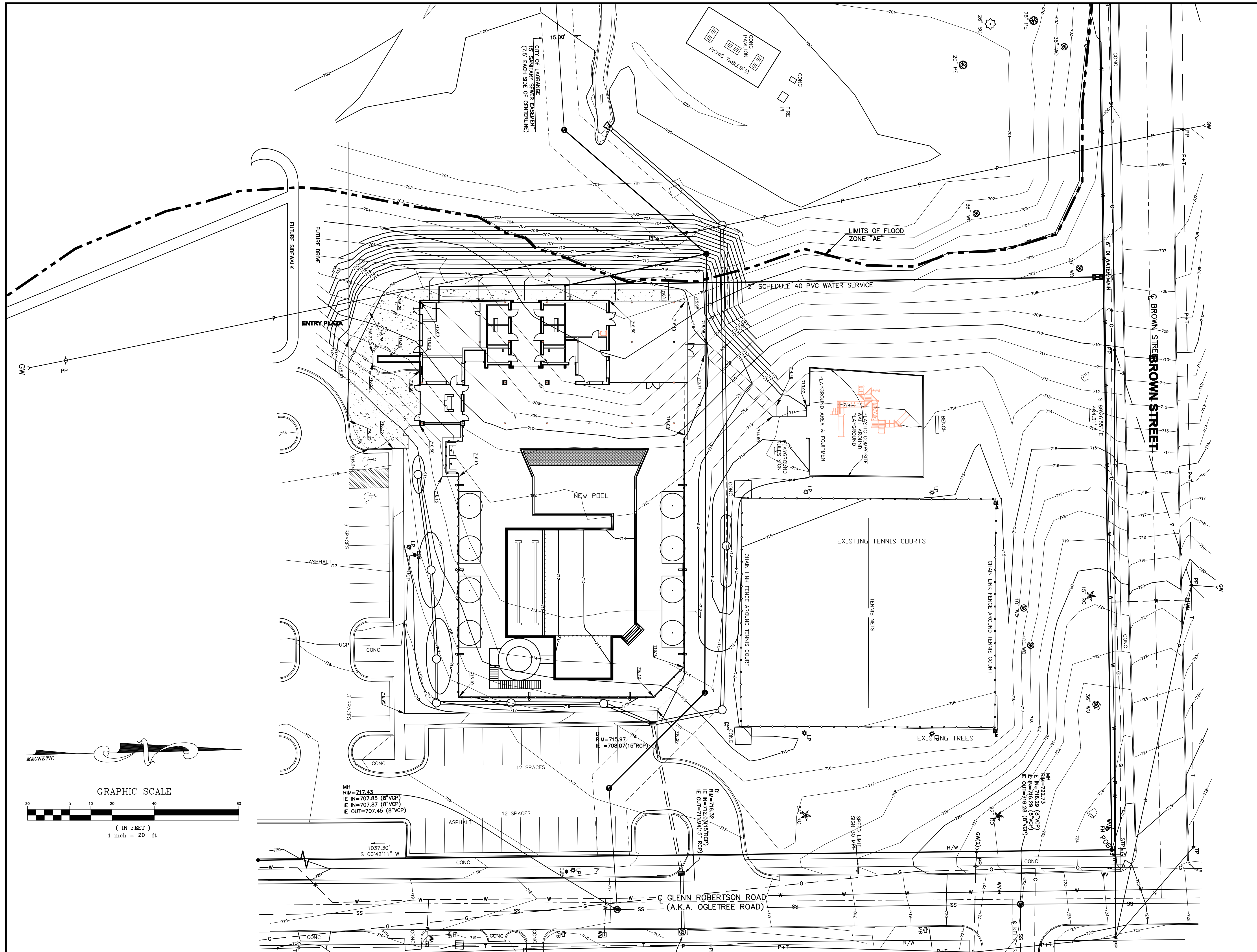
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ALTON WEST
200 RIDLEY AVENUE
LAGRANGE, GA 30240
(706) 883-2050



GRAPHIC SCALE





ARCHITECT'S STAMP
 STATE OF GEORGIA
 PROFESSIONAL SEAL
 7575
 REGISTERED ARCHITECT
 SIGNATURE REQUIRED

SMITH DESIGN GROUP, INC.
 208 WEST HARALSON STREET
 LAGRANGE, GEORGIA 30240
 706-882-5511

STOTHARD ENGINEERING, INC.
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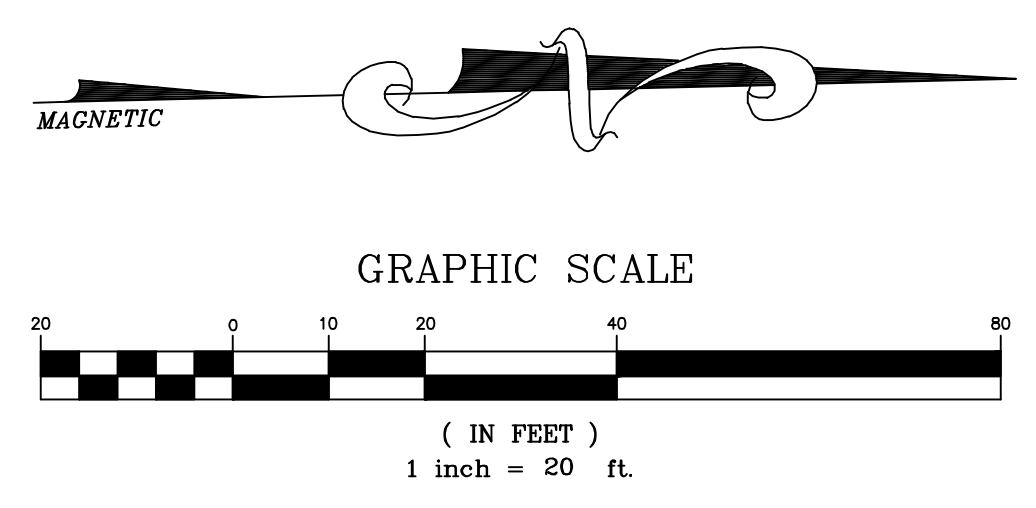


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 GRADING PLAN**

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ISSUED DATE: 13 JULY 2023	SHEET: SD-3



MH
 RIM=717.43
 IE IN=707.85 (8"VCP)
 IE IN=707.87 (8"VCP)
 IE OUT=707.45 (8"VCP)

DI
 RIM=715.97
 IE =708.07(15"RCP)

MH
 RIM=722.73
 IE IN=718.28 (8"VCP)
 IE IN=718.28 (8"VCP)
 IE OUT=718.28 (8"VCP)

1037.30°
 S 00°42'11" W



SMITH DESIGN GROUP, INC.

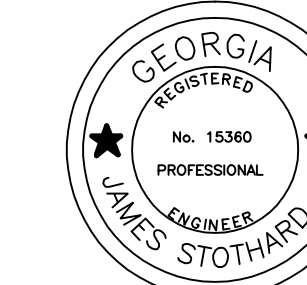
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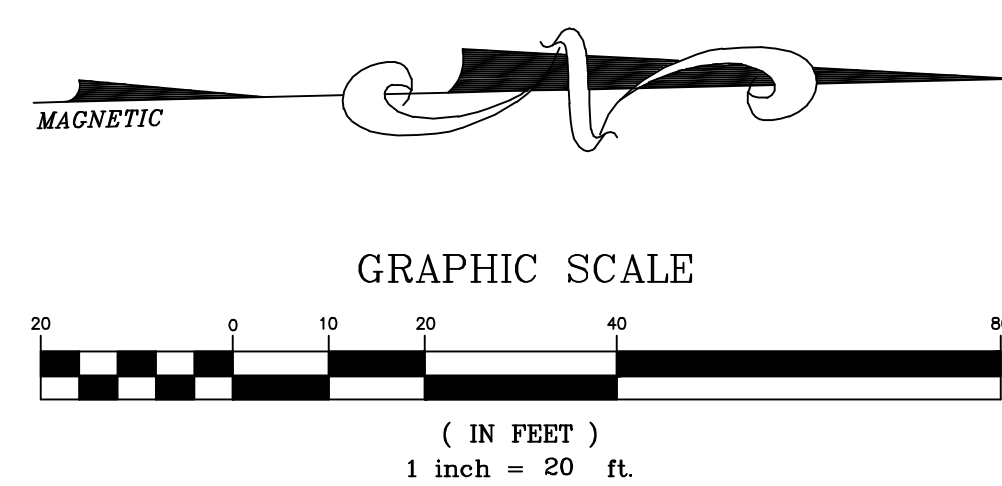
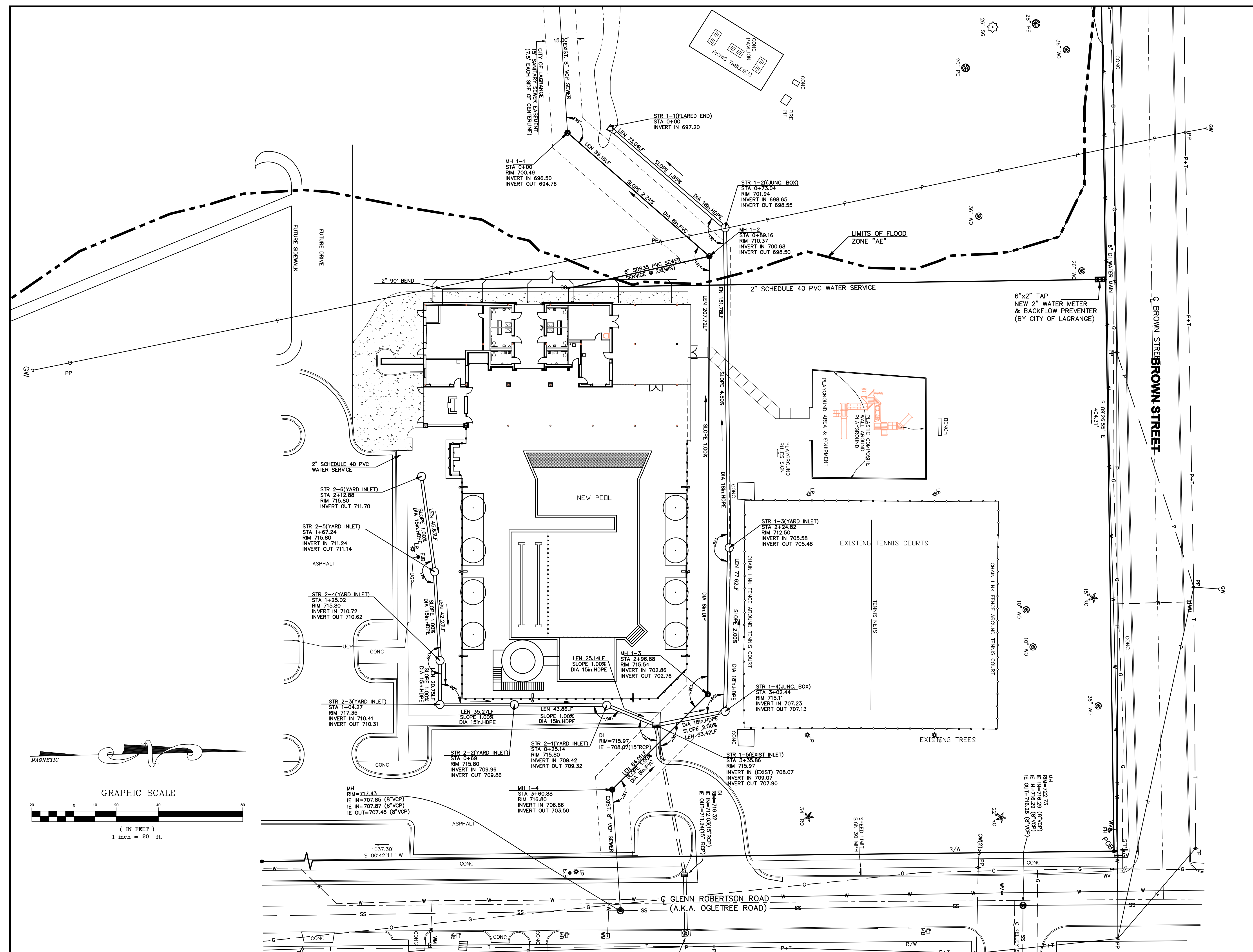
PHASE 2
SEWER & DRAINAGE
PLAN

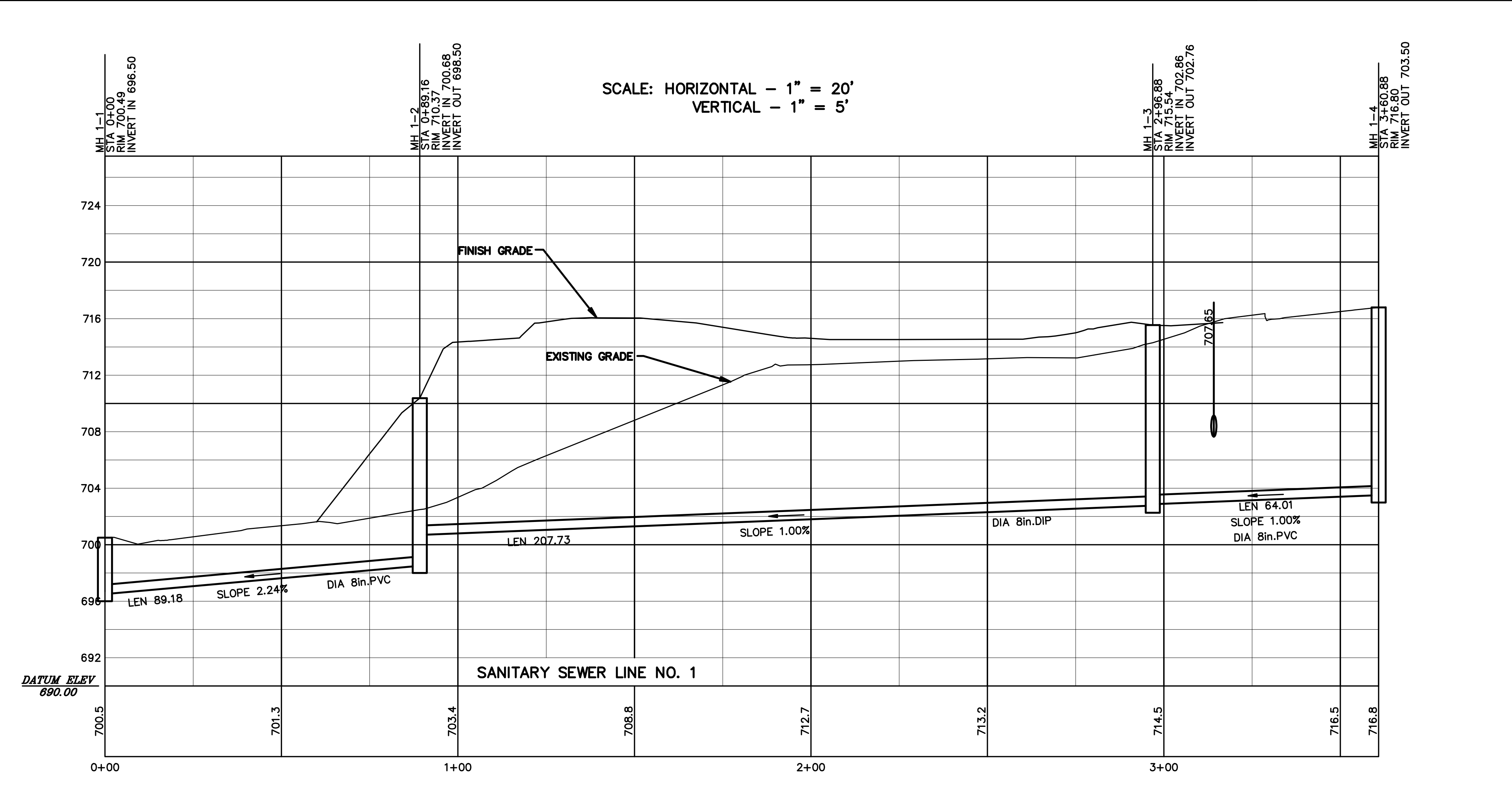
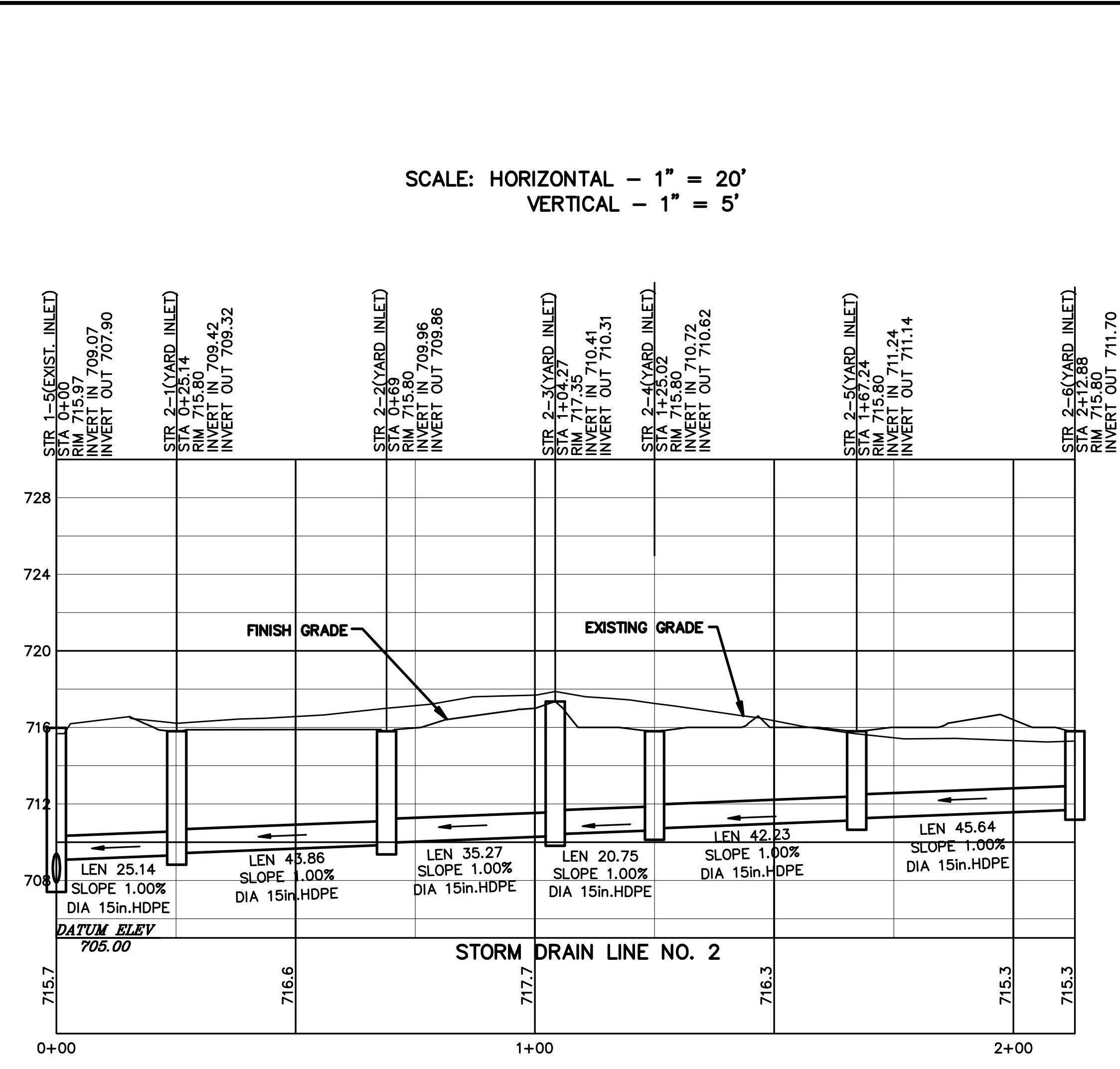
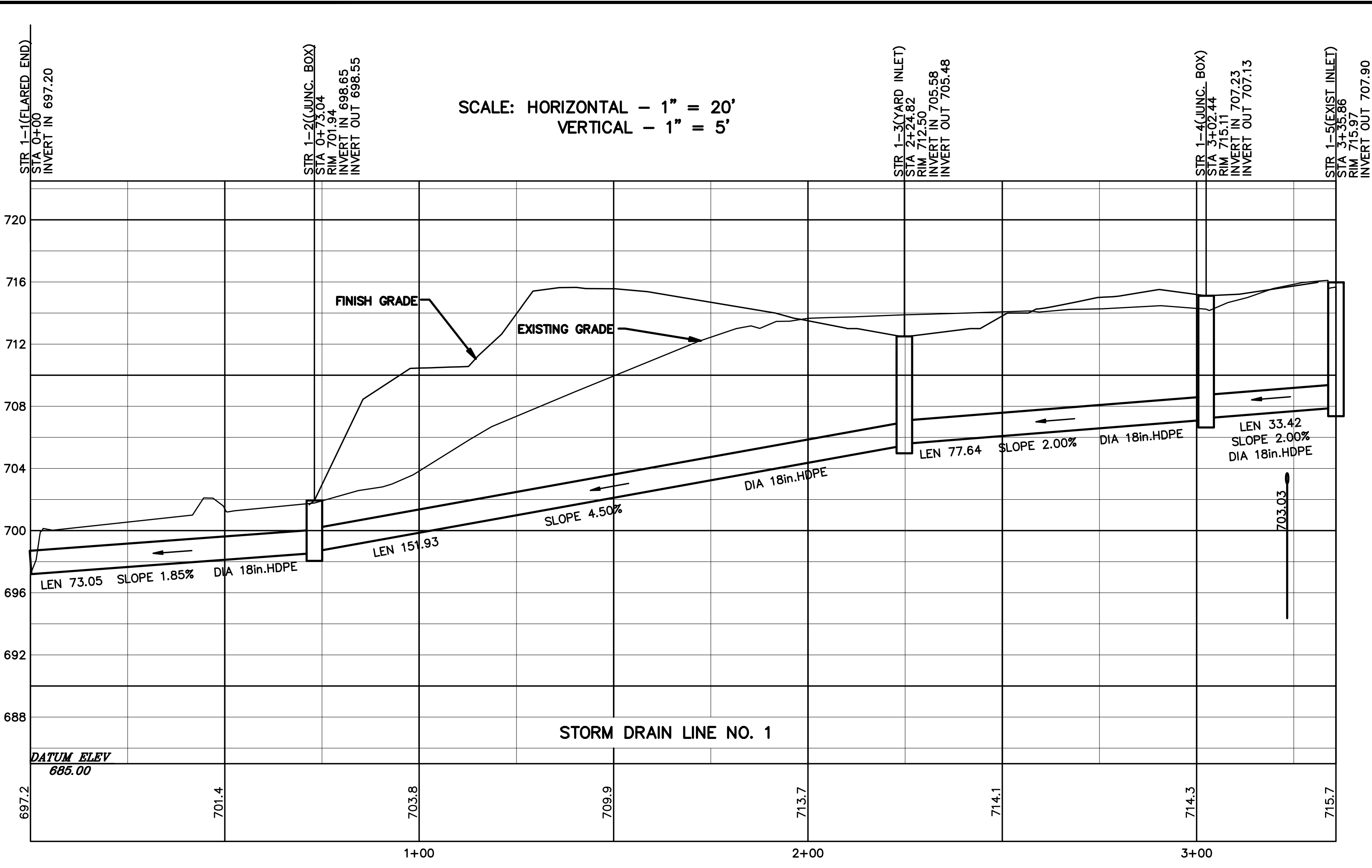
MODIFIED DATE: JOB NO:

2312

ISSUED DATE: SHEET:

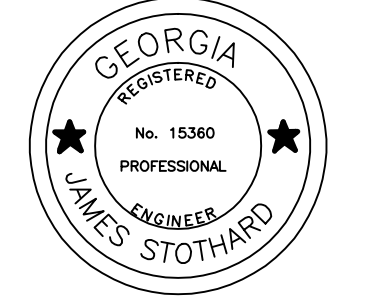
FOR BIDDING AND PERMIT 13 JULY 2023 SD-4





SMITH DESIGN GROUP, INC.
208 WEST HARALSON STREET
LAGRANGE, GEORGIA 30240
706-882-5511

STOTHARD ENGINEERING, INC.
1008 COLQUITT ST.
LAGRANGE, GA 30241
PHONE: 706 884-5279
www.stothard-engineering.com
email: stothard@stothard-engineering.com

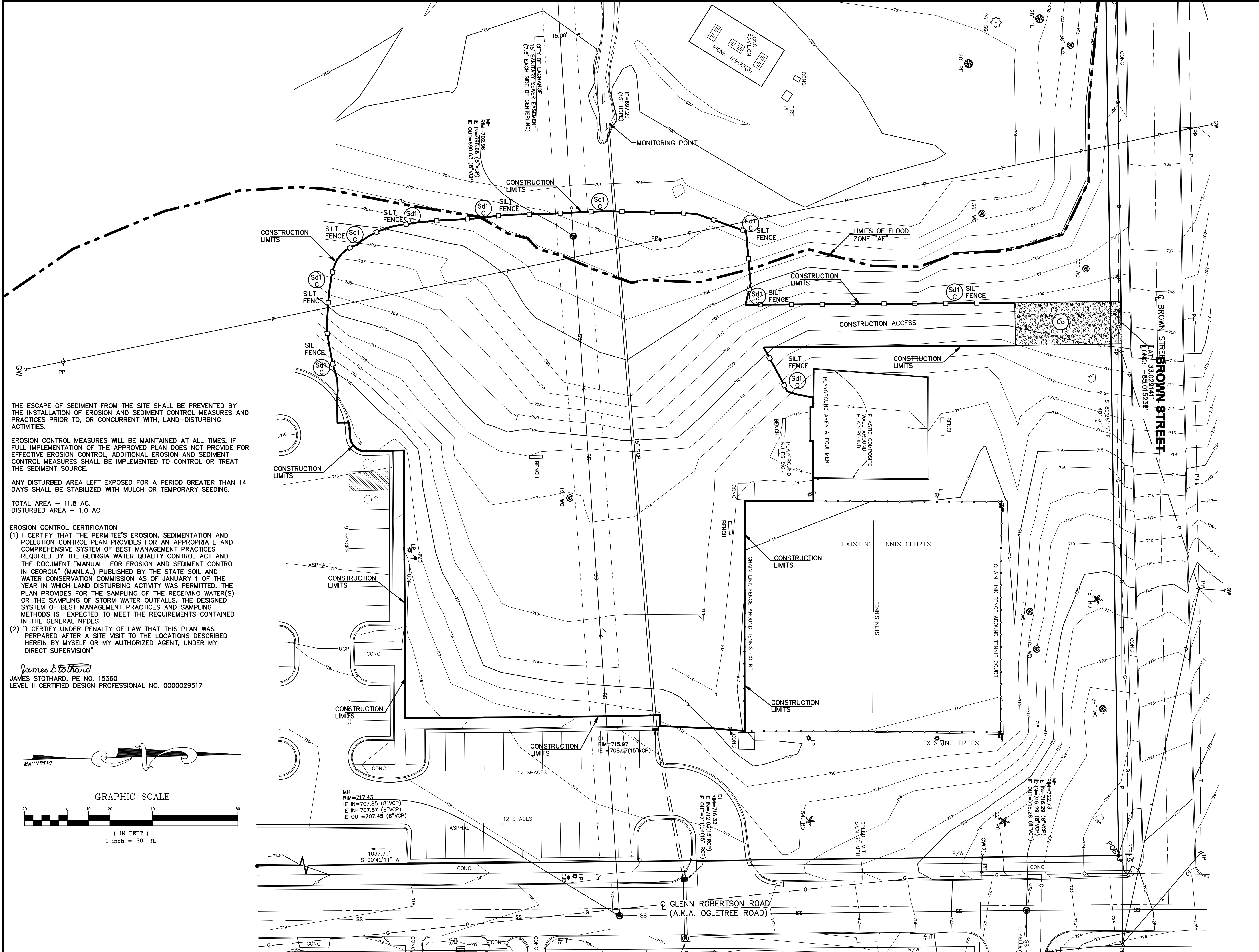


REVISIONS	
DATE	DESCRIPTION

PROJECT:
**WILLIAM J GRIGGS CENTER
PHASE II
POOL AND PAVILION**
TROUP COUNTY PARKS AND RECREATION
716 GLENN ROBERTSON DRIVE
LAGRANGE, GEORGIA

TITLE:
**PHASE 2
SEWER & DRAINAGE
PROFILES**

MODIFIED DATE:	JOB NO: 2312
ISSUED DATE: FOR BIDDING AND PERMIT 13 JULY 2023	SHEET: SD-5



THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

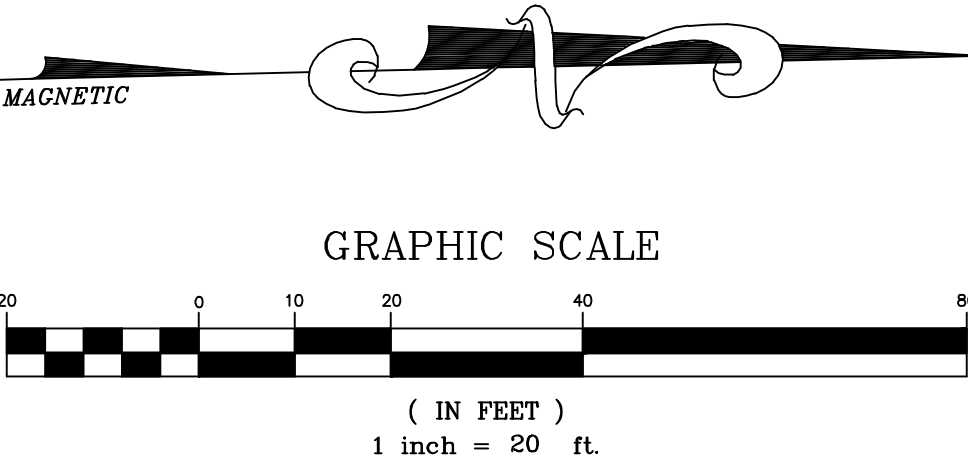
TOTAL AREA - 11.8 AC.
DISTURBED AREA - 1.0 AC.

EROSION CONTROL CERTIFICATION

(1) I CERTIFY THAT THE PERMITEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH LAND DISTURBING ACTIVITY WAS PERMITTED. THE PLAN PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF STORM WATER OUTFALLS. THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES

(2) "I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION"

James Stothard
JAMES STOTHARD, PE NO. 15360
LEVEL II CERTIFIED DESIGN PROFESSIONAL NO. 0000029517

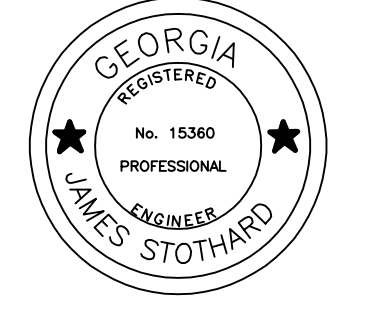


ARCHITECT'S STAMP

SIGNATURE REQUIRED

SMITH DESIGN GROUP, INC.
208 WEST HARALSON STREET
LAGRANGE, GEORGIA 30240
706-882-5511

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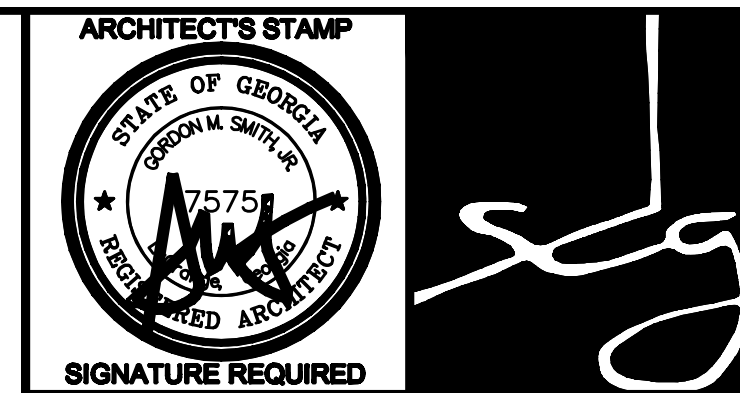
REVISIONS	
DATE	DESCRIPTION

PROJECT:
**WILLIAM J GRIGGS CENTER
PHASE II
POOL AND PAVILION**

TROUP COUNTY PARKS AND RECREATION
716 GLENN ROBERTSON DRIVE
LAGRANGE, GEORGIA

TITLE:
**PHASE 2
EROSION CONTROL PLAN
PHASE ONE**

MODIFIED DATE:	JOB NO: 2312
ISSUED DATE: 13 JULY 2023	SHEET: SD-6



SMITH DESIGN GROUP, INC.

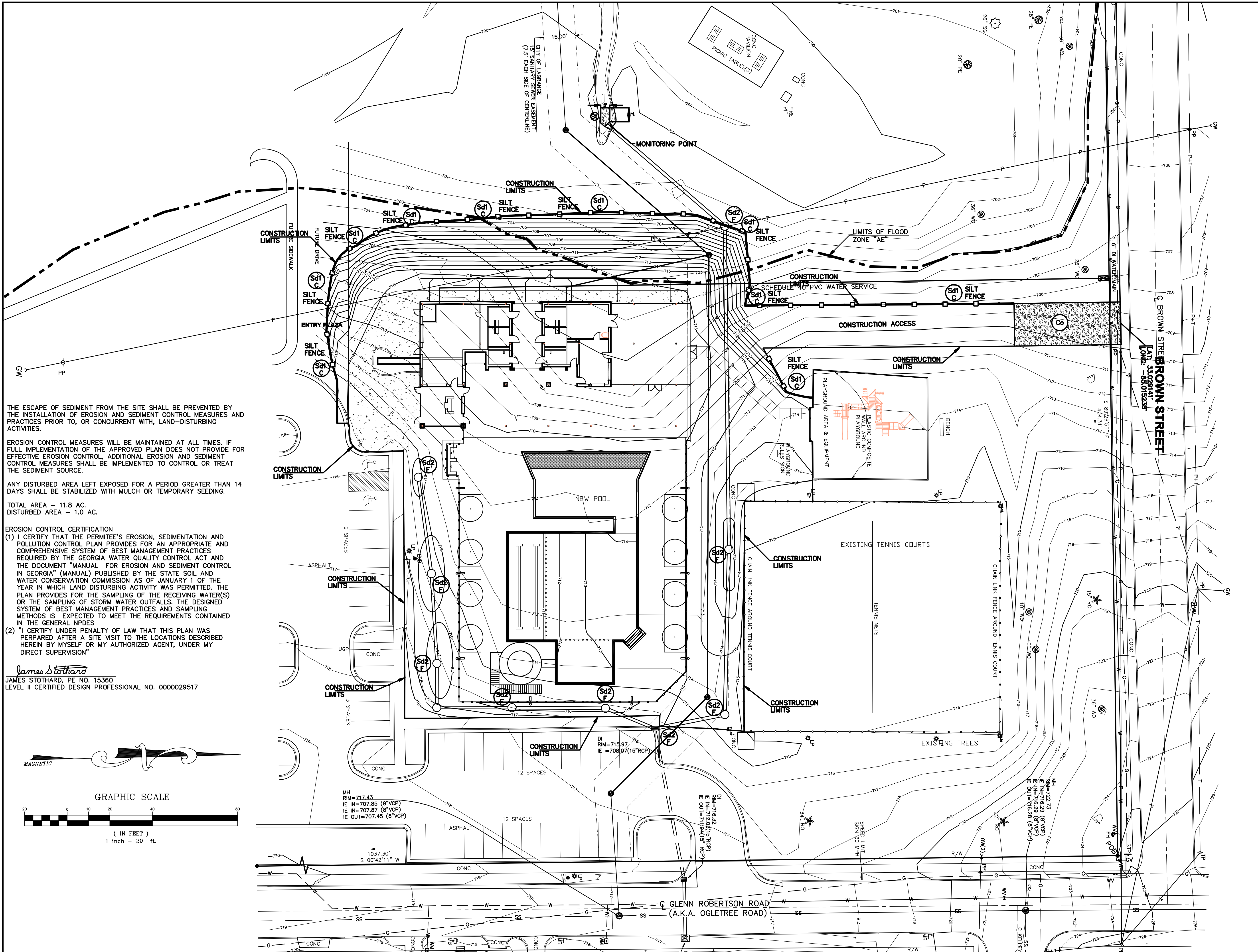
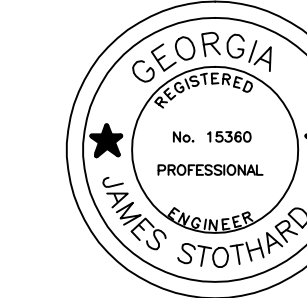
208 WEST HARALSON STREET
LAGRANGE, GEORGIA 30240

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STOTHARD ENGINEERING, INC.

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30241

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www.stothard-engineering.com
email: stothard@stothard-engineering.com



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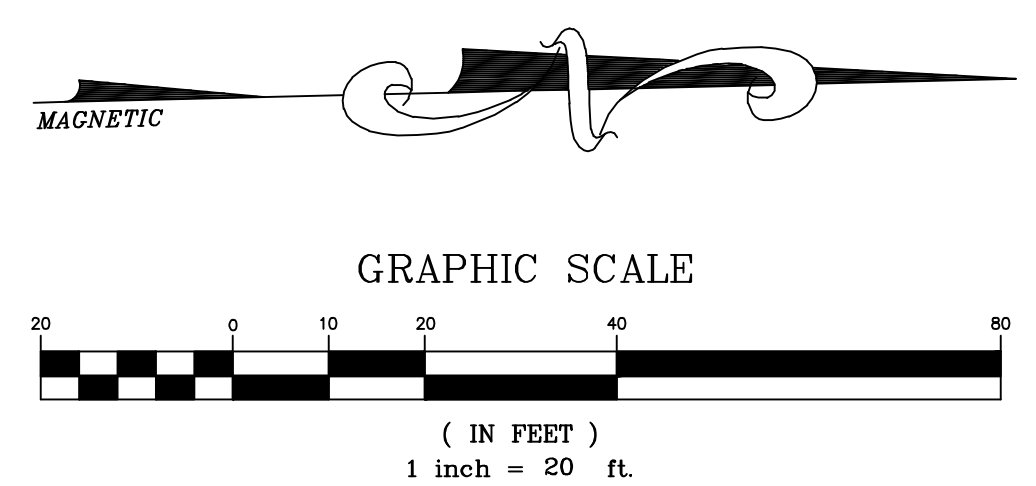
TOTAL AREA - 11.8 AC.
DISTURBED AREA - 1.0 AC.

EROSION CONTROL CERTIFICATION

(1) I CERTIFY THAT THE PERMITEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH LAND DISTURBING ACTIVITY WAS PERMITTED. THE PLAN PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF STORM WATER OUTFALLS. THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES

(2) I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION

James Stothard
JAMES STOTHARD, PE NO. 15360
LEVEL II CERTIFIED DESIGN PROFESSIONAL NO. 0000029517



MH 217.43
RIM=217.43
IE IN=707.85 (8"VCP)
IE IN=707.87 (8"VCP)
IE OUT=707.45 (8"VCP)

DI 716.32
RIM=716.32
IE IN=712.04(15"RCP)
IE OUT=711.94(15"RCP)

MH 722.73
RIM=722.73
IE IN=718.28 (8"VCP)
IE IN=718.28 (8"VCP)
IE OUT=718.28 (8"VCP)

REVISIONS

DATE	DESCRIPTION

PROJECT:

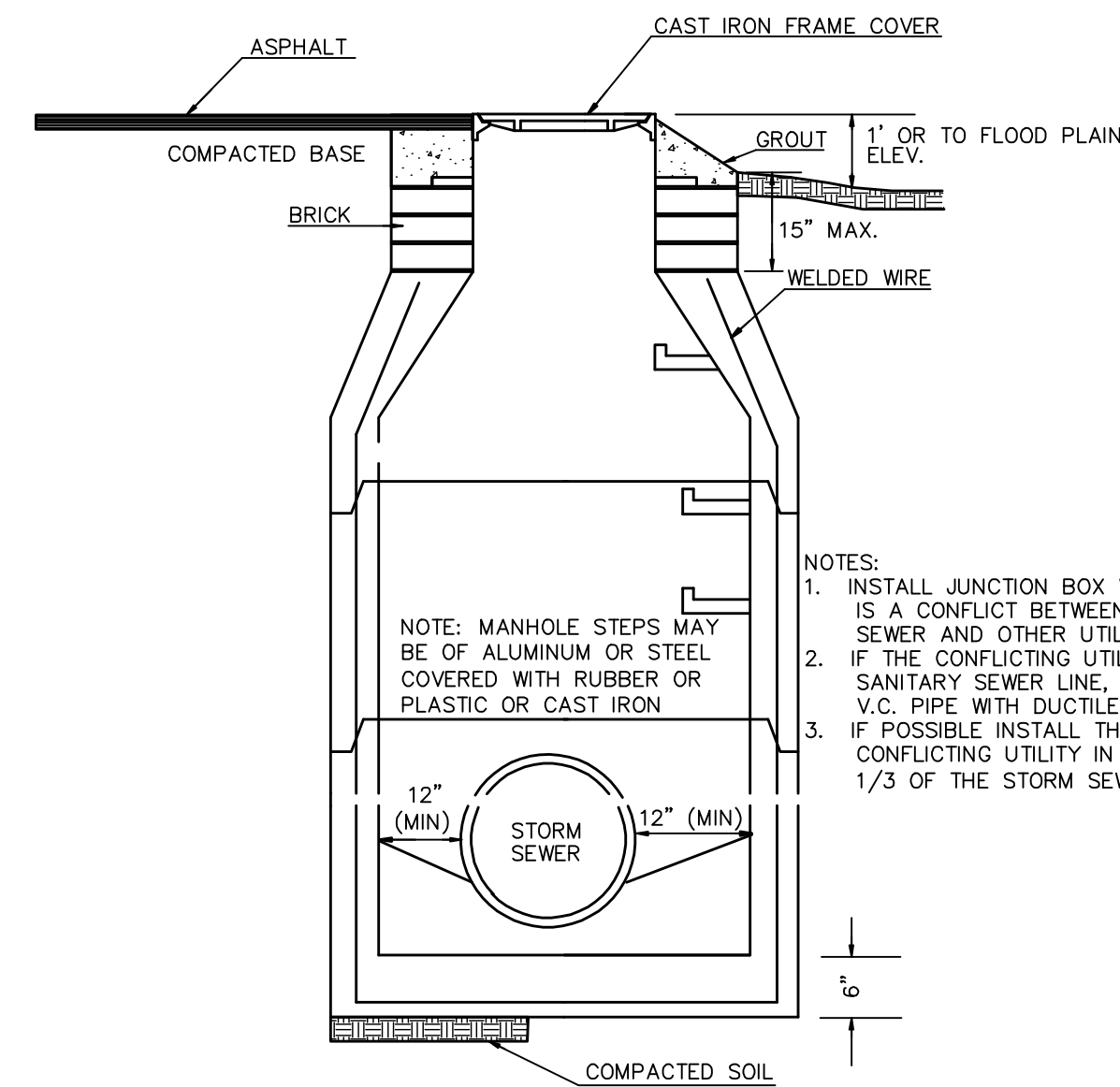
**WILLIAM J GRIGGS CENTER
PHASE II
POOL AND PAVILION**

TROUP COUNTY PARKS AND RECREATION
716 GLENN ROBERTSON DRIVE
LAGRANGE, GEORGIA

TITLE:

**PHASE 2
EROSION CONTROL PLAN
PHASE TWO**

MODIFIED DATE:	JOB NO: 2312
ISSUED DATE:	SHEET: SD-7
FOR BIDDING AND PERMIT 13 JULY 2023	

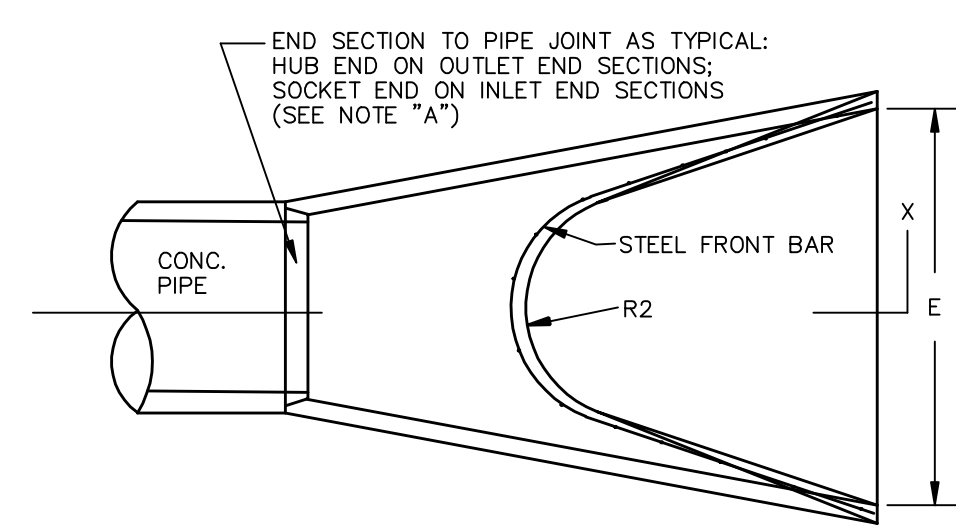


SECTIONAL ELEVATION
JUNCTION BOX
(NTS)

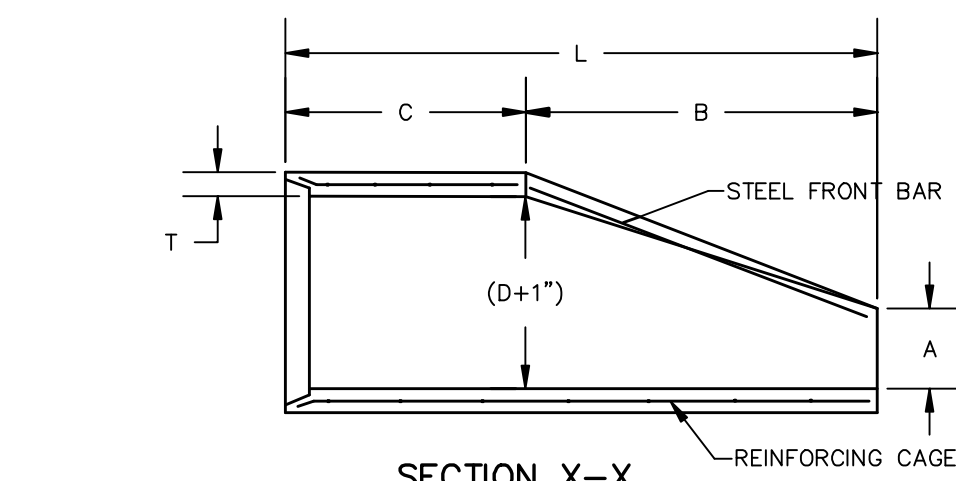
NOTE: CONCENTRIC OR ECCENTRIC CONE MAY BE USED

- NOTES:
1. INSTALL JUNCTION BOX WHEN THERE IS A CONFLICT BETWEEN STORM SEWER AND OTHER UTILITY LINES.
 2. IF THE CONFLICTING UTILITY LINE IS A SANITARY SEWER LINE, REPLACE THE V.C. PIPE WITH DUCTILE IRON PIPE.
 3. IF POSSIBLE INSTALL THE CONFLICTING UTILITY IN THE UPPER 1/3 OF THE STORM SEWER.

NOTE: MANHOLE STEPS MAY BE OF ALUMINUM OR STEEL COVERED WITH RUBBER OR PLASTIC OR CAST IRON



PLAN

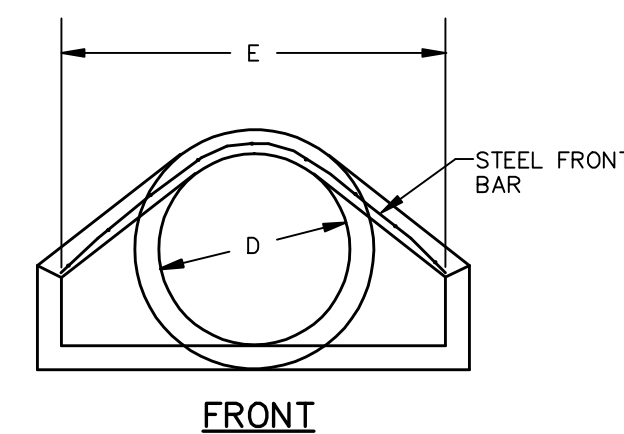


SECTION X-X

REINFORCING CAGE:

1. WIRE FABRIC HAVING SAME STEEL AREA AS INNER CAGE FOR CL III PIPE, AASHTO M-170, BUT PLACED IN CENTER OF WALL.
2. ALTERNATE #3 BARS SPACED 12" LONGITUDINALLY WITH #2 BARS TRANSVERSELY AT 6" O.C. MAX SPACING, SPOT WELDED OR TIED TO FORM CAGE.

NOTE: DO NOT CUT CONCRETE PIPE. USE ONLY FULL LENGTH SECTIONS ONLY. WARP SLOPE TO CONFORM WITH PIPE LENGTH AND END SECTION.



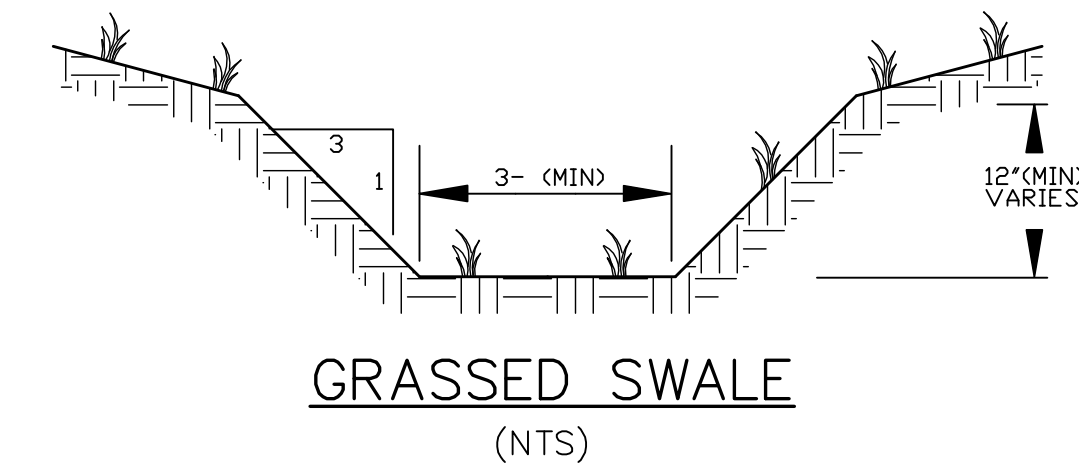
FRONT

DIMENSIONS AND REINFORCING FOR CONCRETE FLARED END SECTIONS (+/- 1" TOLERANCE)											
PIPE DIA.	FRONT BAR	BACK RODS	SLOPE	A	B	C	L	E	P	R1	R2
12"	1-#3 x 5' 4"	NOT REQ'D	2.2:1	4"	2'-0"	4'-1"	6'-1"	2'-0"	1'-8"	10"	9"
15"	1-#3 x 6' 0"	NOT REQ'D	2.2:1	6"	2'-3"	3'-10"	6'-1"	2'-8"	2'-0"	11"	11"
18"	1-#3 x 7' 2"	NOT REQ'D	2.2:1	9"	2'-3"	3'-10"	6'-1"	3'-0"	2'-5"	1'-4"	1'-0"
24"	1-#3 x 9' 10"	NOT REQ'D	2.4:1	10"	3'-8"	2'-6"	6'-2"	4'-0"	2'-9"	1'-5"	1'-2"
30"	1-#4 x 11' 8"	NOT REQ'D	2.4:1	12"	4'-6"	1'-8"	6'-2"	6'-0"	3'-11"	1'-6"	1'-3"
36"	1-#4 x 13' 10"	2-#4 x 6' 3"	2.4:1	15"	5'-3"	2'-11"	8'-2"	6'-0"	4'-0"	2'-0"	1'-8"
42"	1-#4 x 13' 10"	2-#4 x 7' 4"	2.4:1	21"	5'-3"	2'-11"	8'-2"	6'-6"	4'-6"	2'-4"	1'-10"

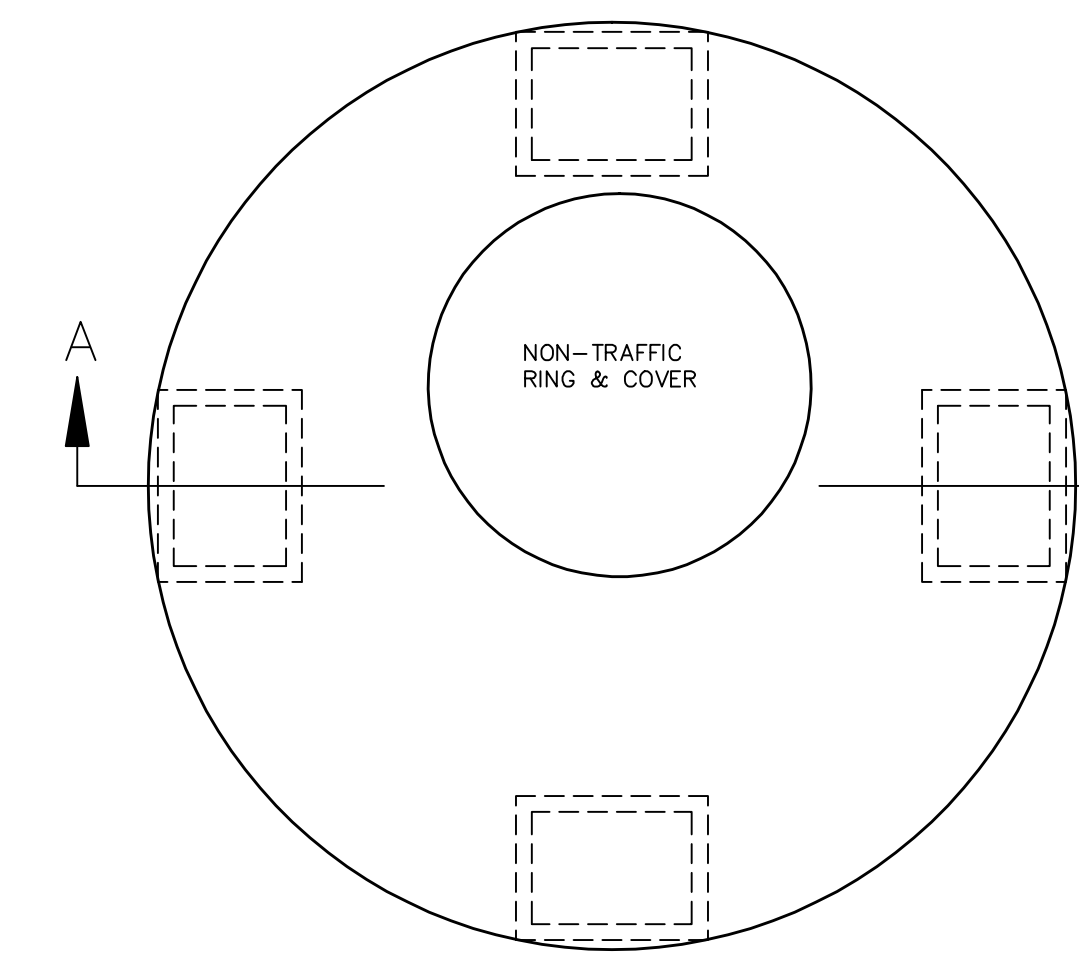
NOTE: SPECIFIED REINFORCING IS MINIMAL AND MAY BE INCREASED AT PRODUCER'S OPTION TO AID CASTING & HANDLING. ALTERNATE REINFORCEMENT PERMITTED IF APPROVED.

NOTE "A": CONTRACTOR WILL INFORM PRODUCER IF CONCRETE FLARED END SECTION IS FOR INLET OR FOR OUTLET END. SOCKET (TONGUE OR SPIGOT) IS REQUIRED FOR INLETS. HUB (GROOVE OR BELL) END IS REQUIRED FOR OUTLETS. SOCKET TO SOCKET OR HUB TO HUB JOINT WILL NOT BE ACCEPTED UNLESS A REINFORCED CONCRETE COLLAR IS BUILT AROUND THE JOINT. FLARED END SECTIONS SHALL BE JOINTED TO PIPE WITH ALL SPACE IN THE JOINT FILLED WITH EITHER BITUMINOUS PLASTIC CEMENT OR PREFORMED PLASTIC GASKET.

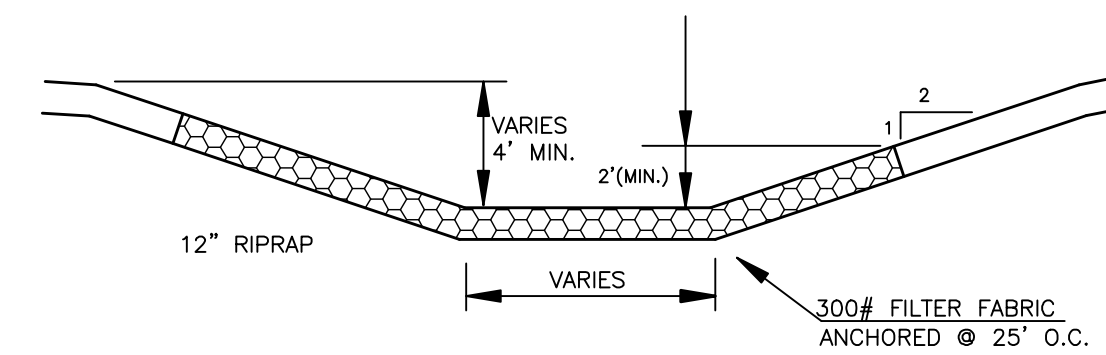
CONCRETE FLARED END SECTION
(NTS)



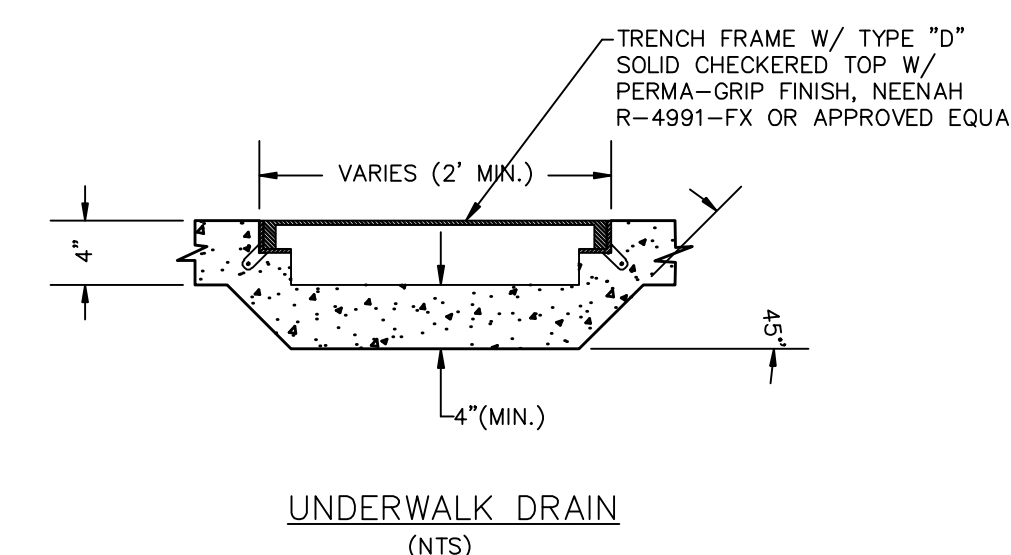
GRASSED SWALE
(NTS)



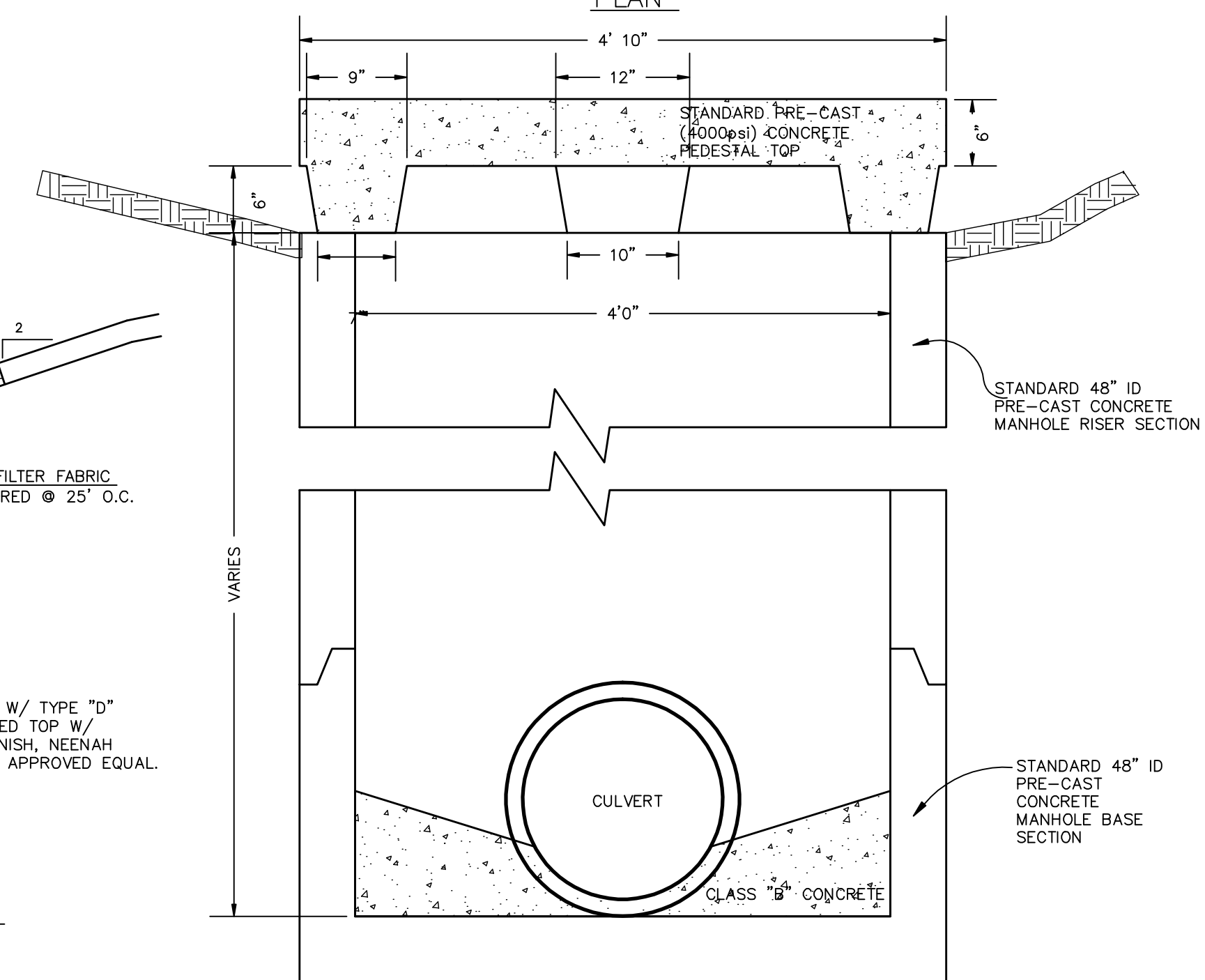
PLAN



DITCH SECTION
(NTS)



UNDERWALK DRAIN
(NTS)



SECTION A-A
SIDE OPENING YARD INLET
(NTS)



SMITH DESIGN GROUP, INC.

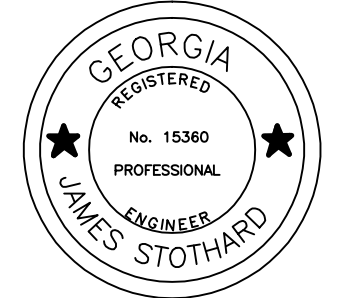
208 WEST HARALSON STREET
LAGRANGE, GEORGIA 30240

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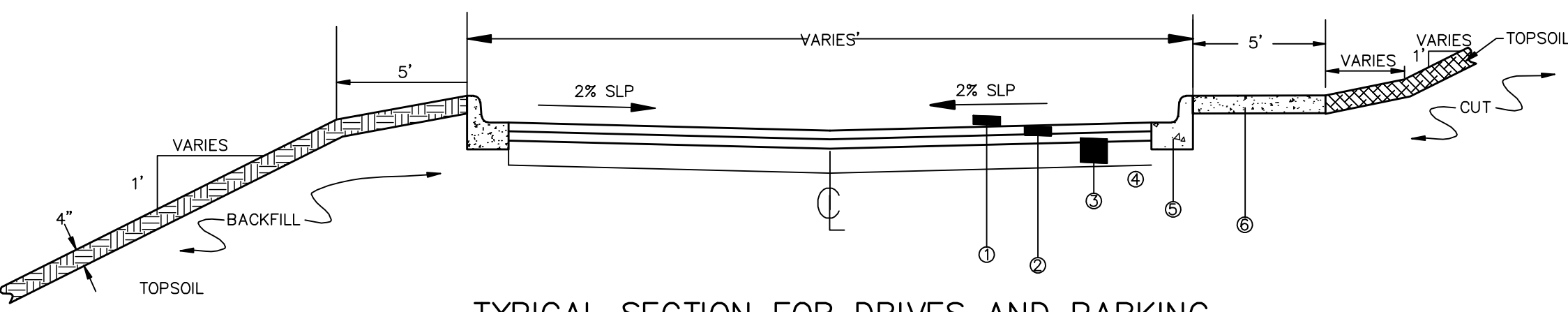
REVISIONS

DATE	DESCRIPTION

PROJECT:
WILLIAM J GRIGGS CENTER
PHASE II
POOL AND PAVILION
TROUP COUNTY PARKS AND RECREATION
716 GLENN ROBERTSON DRIVE
LAGRANGE, GEORGIA

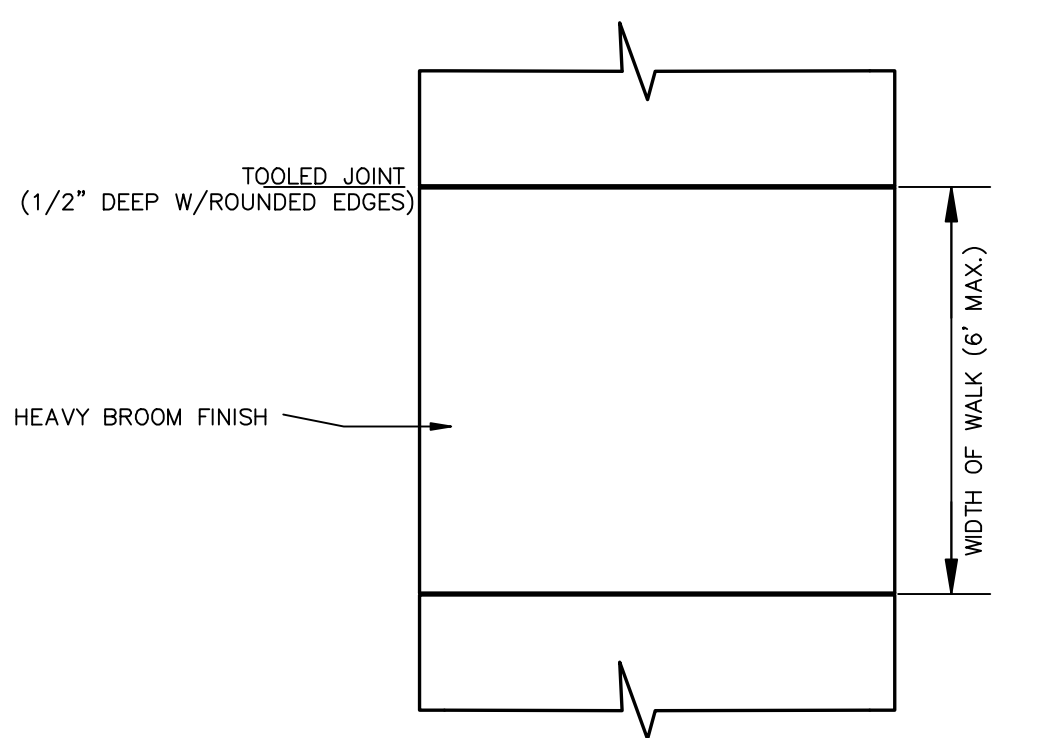
TITLE:
PHASE 2
STANDARD DETAIL
DRAINAGE

MODIFIED DATE:	JOB NO: 2312
ISSUED DATE:	SHEET: SD-8
FOR BIDDING AND PERMIT 13 JULY 2023	

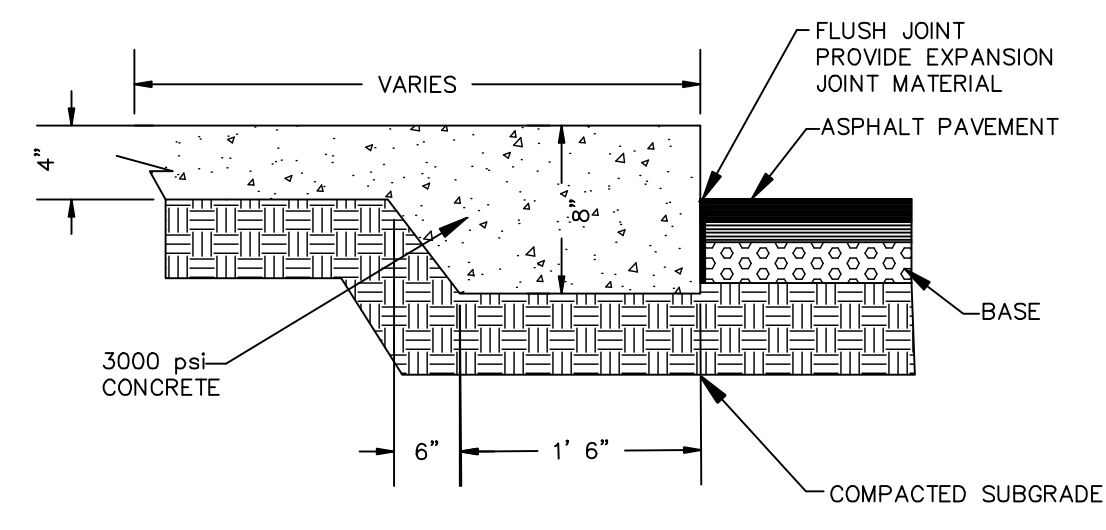


TYPICAL SECTION FOR DRIVES AND PARKING
(NTS)

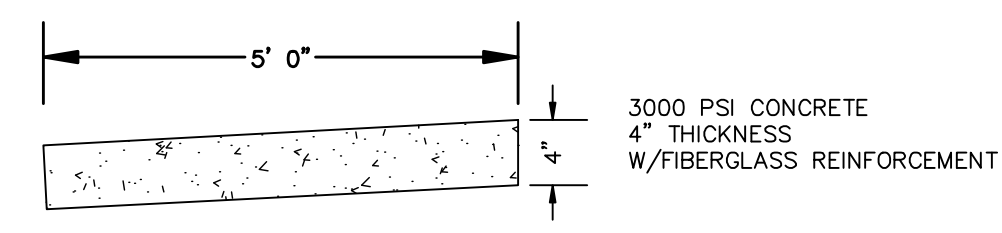
- SHEET LEGEND
- 12.5MM SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE, @ 150 #/sq(1-1/2")
 - 19MM BITUMINOUS CONCRETE BINDER LAYER, @ 220 #/sq(2")
 - GRADED AGGREGATE BASE COURSE (GAB), UPPER LAYER, 6" COMPACTED THICKNESS
 - COMPACTED SUBGRADE
 - 24" CONCRETE CURB & GUTTER (SPILL OUT GUTTER TO BE CONSTRUCTED IF ON HIGHSIDE)
 - CONCRETE SIDEWALK-4" THICKNESS-3000psi CONCRETE



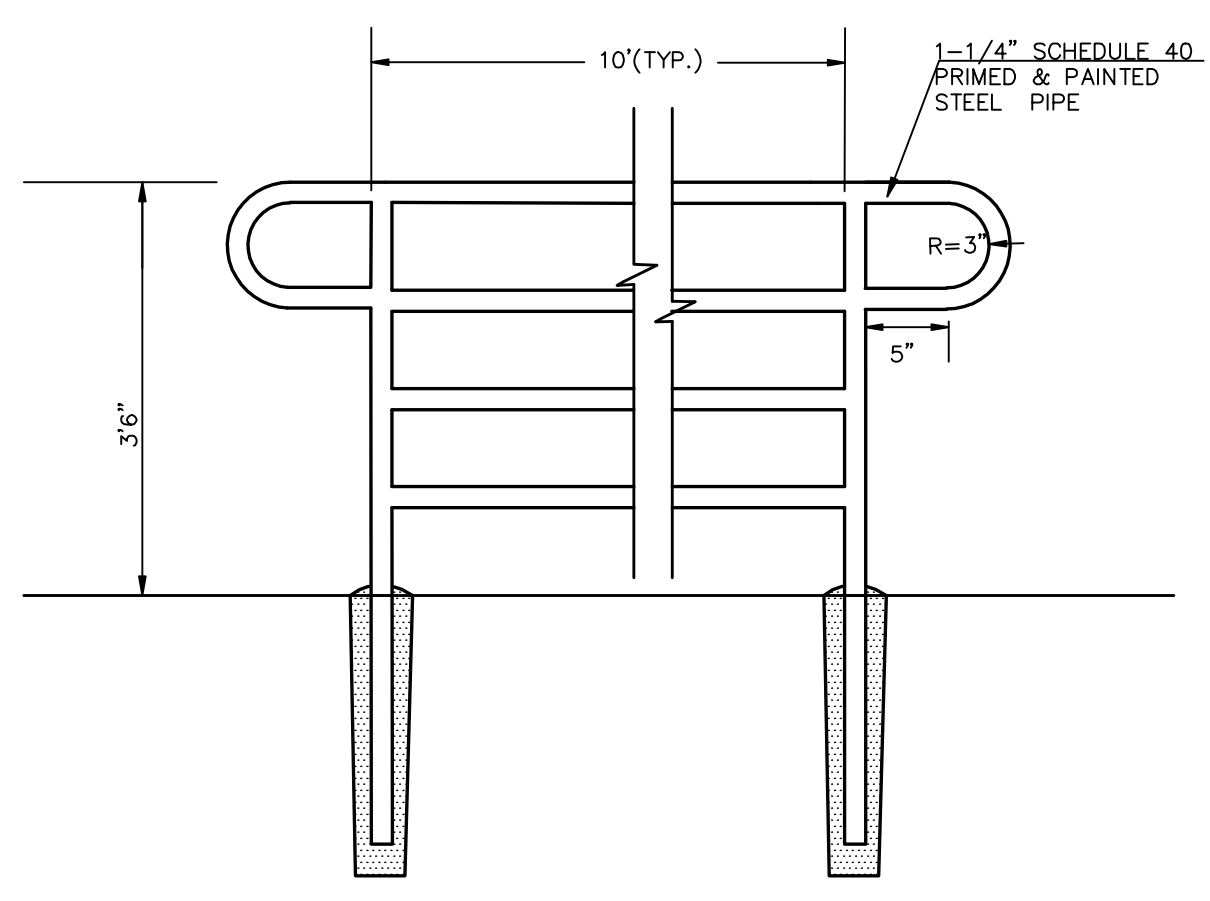
SIDEWALK FINISHING DETAIL
(NTS)



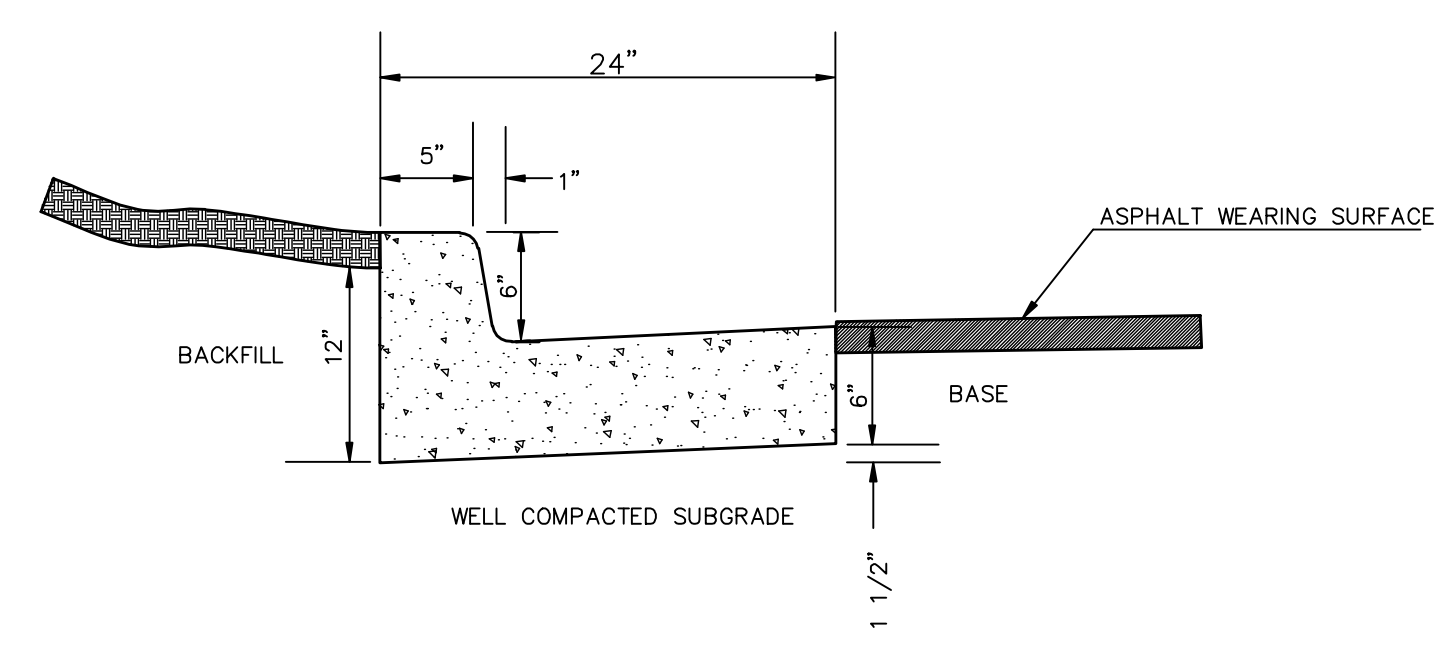
TURN DOWN SIDEWALK DETAIL
(NTS)



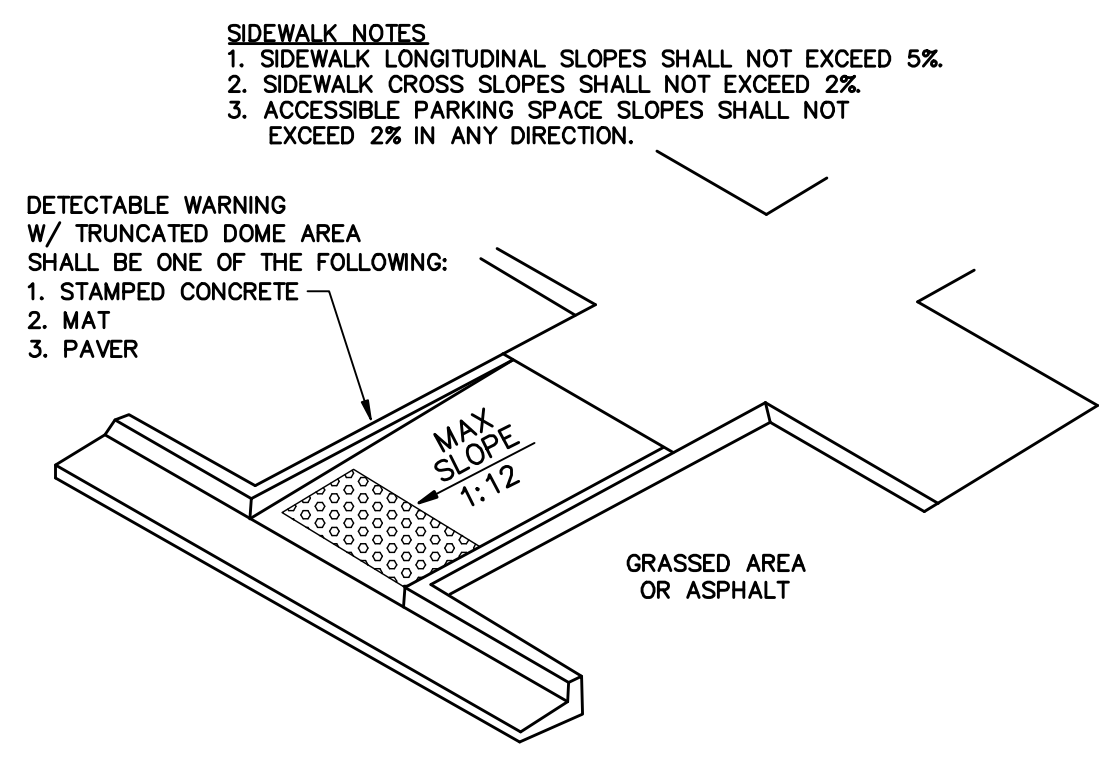
SIDEWALK
(NTS)



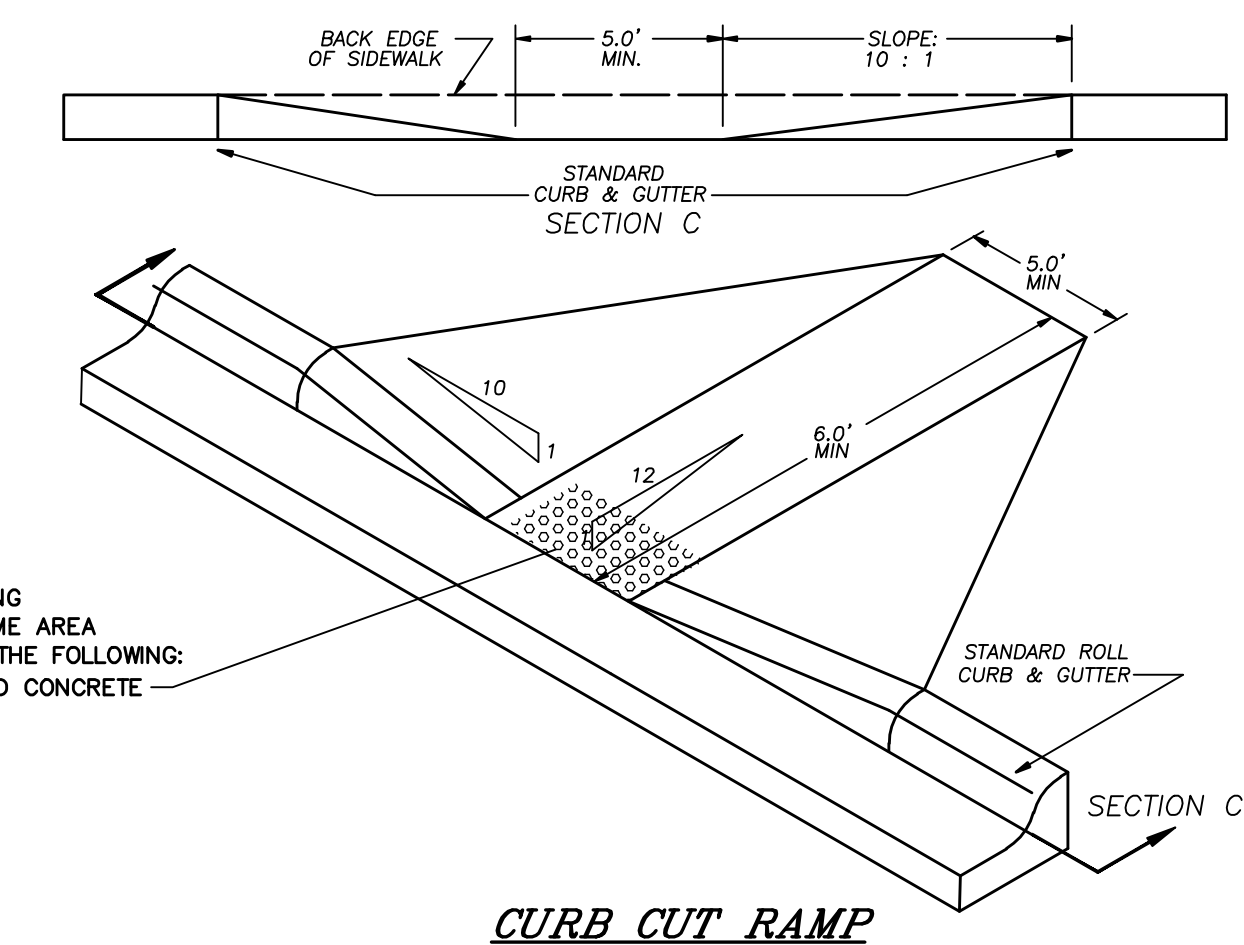
SIDE ELEVATION
(NTS)



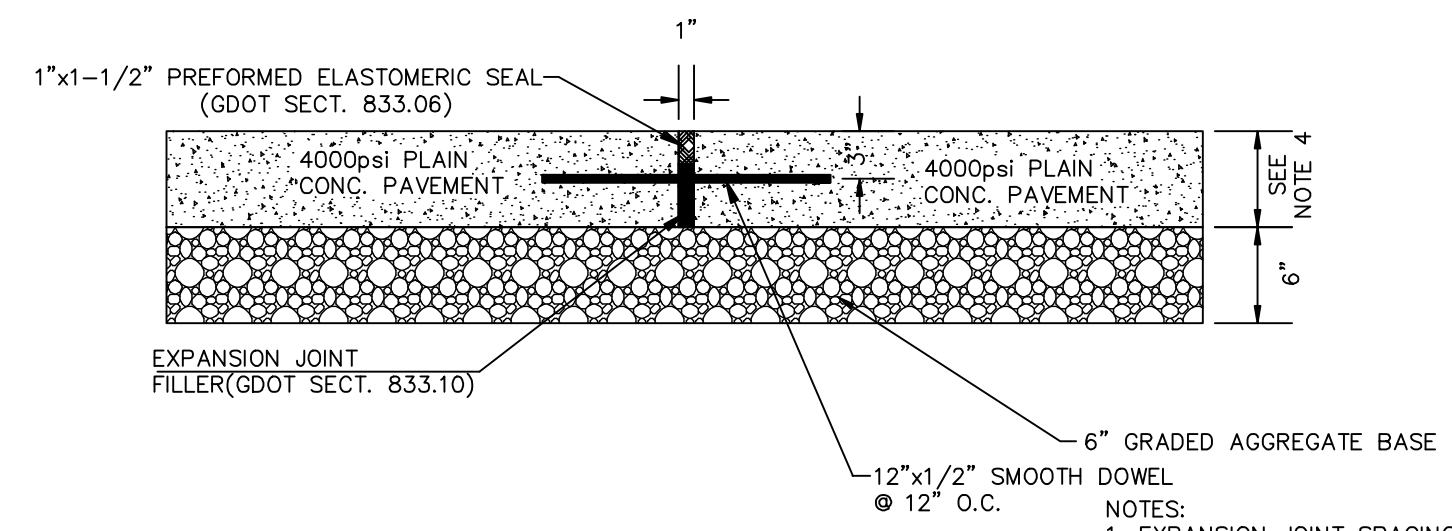
STANDARD CURB & GUTTER
(NTS)



SLOPEDOWN SIDEWALK DETAIL
(NTS)

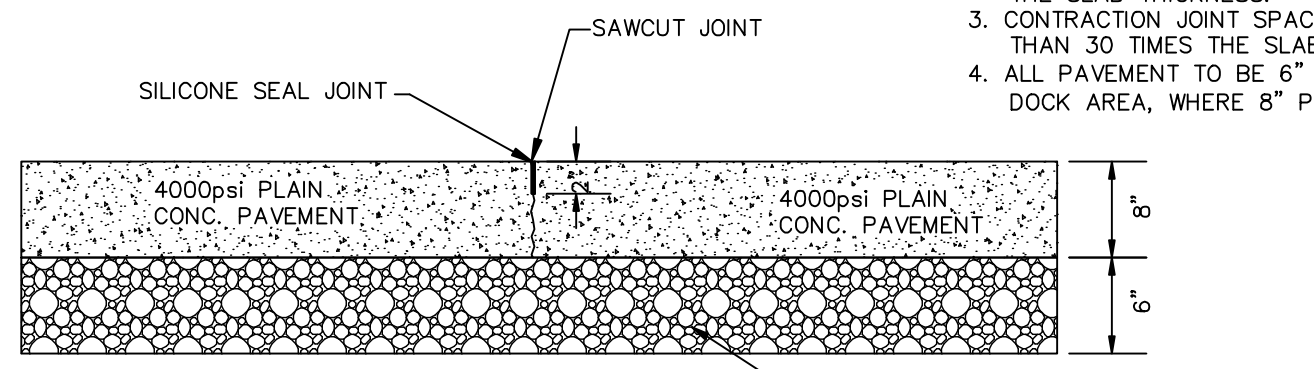


CURB CUT RAMP
(NTS)

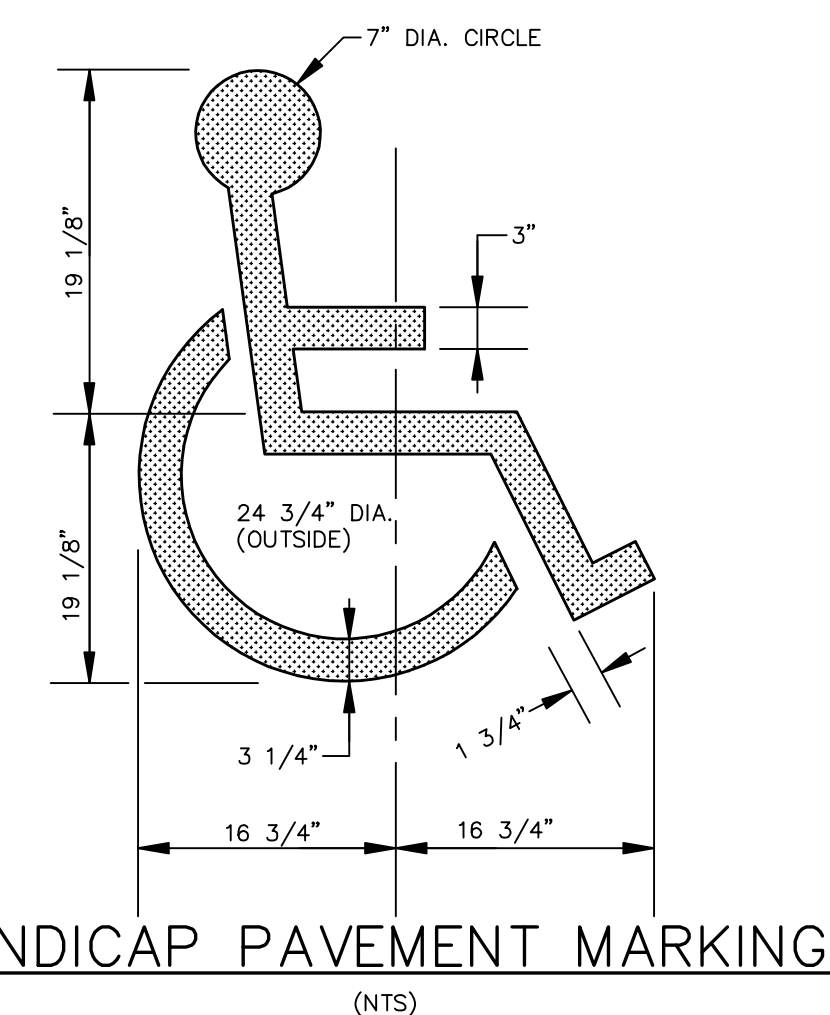


TRANSVERSE EXPANSION JOINT
(NTS)

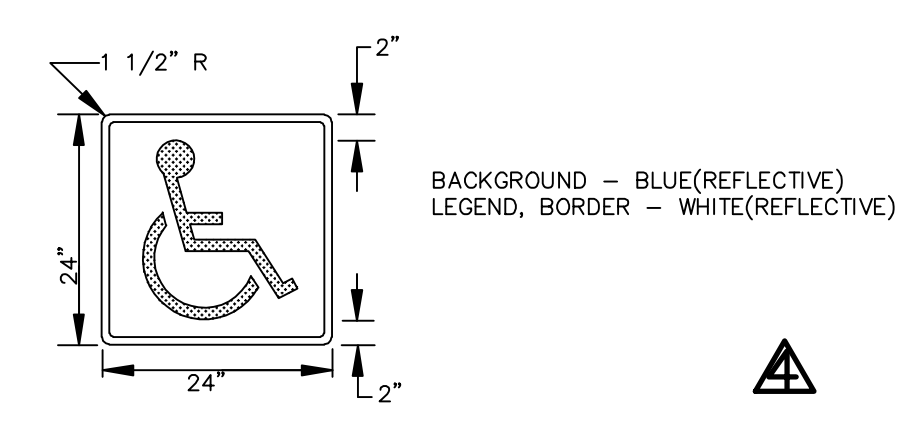
- NOTES:
- EXPANSION JOINT SPACING TO BE NO GREATER THAN TWICE THE CONTRACTION JOINT SPACING.
 - EXPANSION JOINTS TO BE PLACED AT MID POINT IN SLAB IF SLAB WIDTH IS GREATER THAN 30 TIMES THE SLAB THICKNESS, BUT LESS THAN 60 TIMES THE SLAB THICKNESS.
 - CONTRACTION JOINT SPACING TO BE NO GREATER THAN 30 TIMES THE SLAB THICKNESS.
 - ALL PAVEMENT TO BE 6" DEPTH EXCEPT AT LOADING DOCK AREA, WHERE 8" PAVEMENT IS REQUIRED.



TRANSVERSE CONTRACTION JOINT
(NTS)



HANDICAP PAVEMENT MARKING
(NTS)



HANDICAP SIGN
(NTS)

1. SIGN POST TO BE #2 "U" CHANNEL
2. BOLTS TO BE 3/16" W/SWAAGED FLANGE COLLAR (2 REQUIRED /SIGN)
3. SIGN HEIGHT TO BE 7'0" (GROUND TO BOTTOM OF SIGN)
4. POST TO BE ANCHORED IN 6" DIA. CLASS "B" CONC. (MIN. 18" DEEP)
5. SIGN PANEL TO BE 0.125" REFLECTORIZED ALUMINUM PANEL

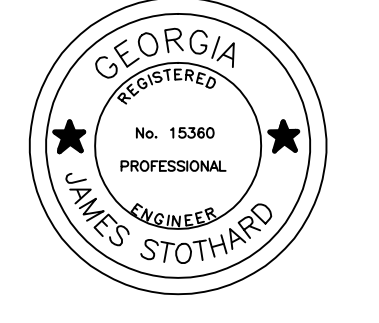
PARKING STALL STRIPING DETAIL
(NTS)

- NOTES:
- ALL PAVEMENT MARKING SHALL CONFORM TO GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION (1993 EDITION) SECTION 652.
 - MARKINGS SHALL BE MADE WITH REFLECTORIZED PERMANENT TRAFFIC PAINT CONFORMING TO SECTION 870 OF THE GDOT SPECIFICATIONS.
 - ALL PAVEMENT MARKINGS SHALL BE WHITE IN COLOR.
 - ACCESS AISLES SLOPES SHALL NOT EXCEED 2% IN ANY DIRECTION.

ARCHITECT'S STAMP
STATE OF GEORGIA
PROFESSIONAL ARCHITECT
7575
SIGNATURE REQUIRED

SMITH DESIGN GROUP, INC.
208 WEST HARALSON STREET
LAGRANGE, GEORGIA 30240
706-882-5511

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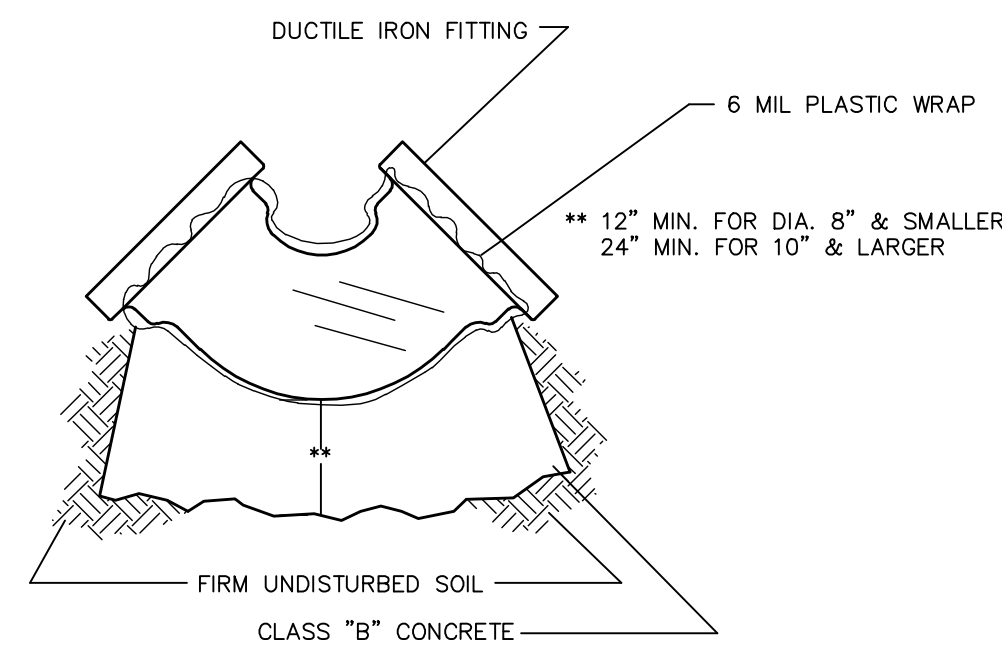


REVISIONS	
DATE	DESCRIPTION

PROJECT:
**WILLIAM J GRIGGS CENTER
PHASE II
POOL AND PAVILION**
TROUP COUNTY PARKS AND RECREATION
716 GLENN ROBERTSON DRIVE
LAGRANGE, GEORGIA

TITLE:
**PHASE 2
STANDARD DETAILS
MISCELLANEOUS**

MODIFIED DATE:	JOB NO: 2312
ISSUED DATE: 13 JULY 2023	SHEET: SD-9



TYPICAL THRUST BLOCK

(NTS)

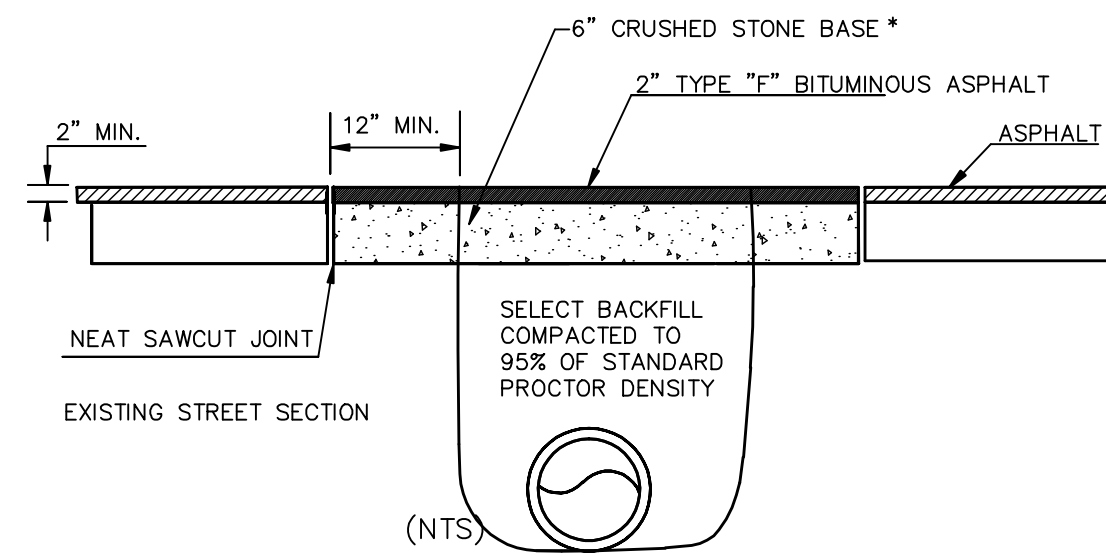
NOTES:

- FOR ALL PIPE DEFLECTIONS SEE CHART ON PAGE 2 OF THIS DETAIL.
- ALL MATERIALS WILL BE AMERICAN MADE ONLY!!
- ALL FIRE HYDRANTS: NATIONAL STANDARD THREADS; 4-1/2" STREAMER & 2-1/2" HOSE NOZZLE; M & H STYLE 123 MUELLER CENTURION, AMERICAN DARLING B-62 B APPROVED; BRONZE TO BRONZE SEATED, EPOXY COATED SHOES, WEATHER CAPS SHALL NOT BE MADE OF RUBBER!!!
- ALL FITTINGS SHALL HAVE MECHANICAL JOINTS.
- ALL BRASS FITTINGS SHALL BE FLARED COPPER ONLY! MUELLER OR FORD OR APPROVED EQUAL.
- ALL MECHANICAL JOINT FITTINGS THAT REQUIRE THRUST BLOCKS SHALL BE WRAPPED IN PLASTIC.
- ALL FITTINGS 10" AND LARGER WILL BE FULL BODY ONLY. NO COMPACT FITTINGS.
- ALL COPPER LINES SHALL BE TYPE "K" ONLY.
- FOR ALL PIPES UNDER ROADS: TRENCH BACKFILL, SHALL BE MECHANICALLY TAMPED FOR THE ENTIRE DEPTH OF TRENCH TO 95% STANDARD PROCTOR, WITH THE TOP 12" TAMPED TO 98% MINIMUM. WITHIN SIX(6) FEET BEHIND CURBS, MECHANICALLY TAMP TO PREVENT SETTLEMENT. NO SPECIFIC DENSITY REQUIRED.
- ALL BENDS TO BE INSTALLED WITH RETAINER GLANDS.
- ALL M.J. BOLTS AND BOLTS ON RETAINER GLANDS ARE TO BE TIGHTENED WITH TORQUE WRENCH; 75-90 FT/LBS. RECOMMENDED.
- CHLORINE WILL BE INSTALLED ONLY IN LIQUID FORM THROUGH A TAP PLACED AT A POINT DETERMINED BY WATER BOARD INSPECTORS.
- ALL MAINLINE VALVES WILL BE RESILIENT SEAT G.V.

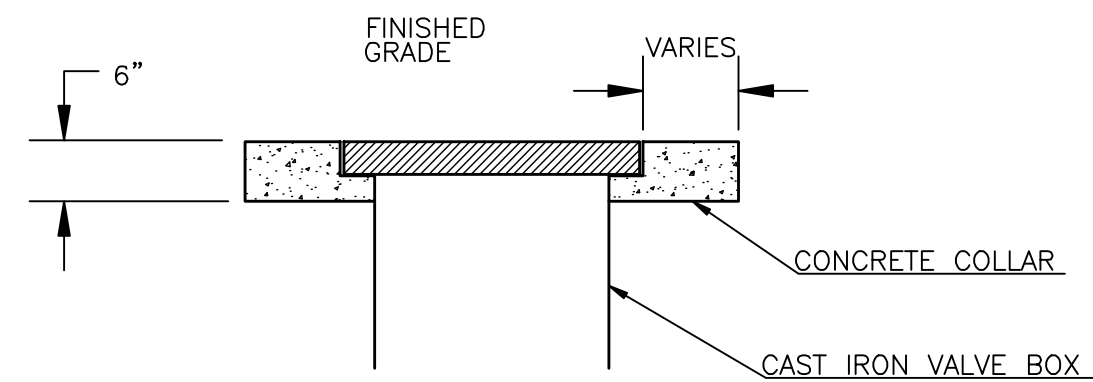
PIPE	11 1/4" BEND	22 1/2" BEND	45° BEND	90° BEND	TEE
3"-4"	.17	.22	.60	1.00	.83
6"	.22	.67	1.60	3.00	2.00
8"	.55	1.33	3.33	5.33	7.50
10"	.83	2.20	5.60	10.40	8.00
12"	1.17	3.50	8.25	15.00	11.00
14"	1.8	4.50	9.60	17.50	12.25
16"	2.5	7.20	12.70	23.33	16.00
18"	3.3	7.30	16.10	30.00	21.00
20"	6.25	9.70	22.50	35.00	25.00

- NOTES:
- BASED ON 2500#/FT. SOIL BEARING CAPACITY
 - CONCRETE TO BE CLASS "B" - 2,500PSI COMPRESSIVE STRENGTH
 - CONCRETE TO BE POURED AGAINST UNDISTURBED EARTH ON BEARING SURFACE.
 - ALL PIPE JOINTS TO BE MECHANICAL
 - ALL FITTINGS TO BE WRAPPED IN PLASTIC TO PREVENT ADHERENCE OF CONCRETE TO METAL.
 - NO CONCRETE TO BE PLACED UNDER PIPE OR AROUND JOINT BOLTS.

**REQUIRED BEARING AREA (SQ. FT.)
STATIC 100 P.S.I. OR LOWER**



TYPICAL UTILITY PATCH

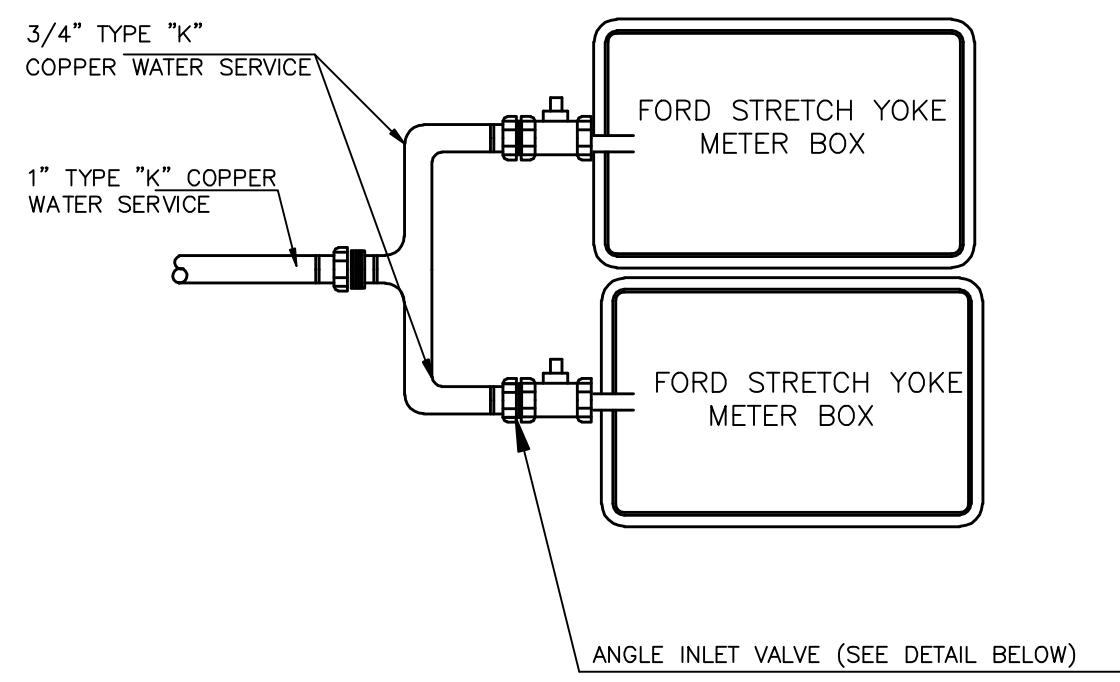


TYPICAL WATER VALVE INSTALLATION

(NTS)

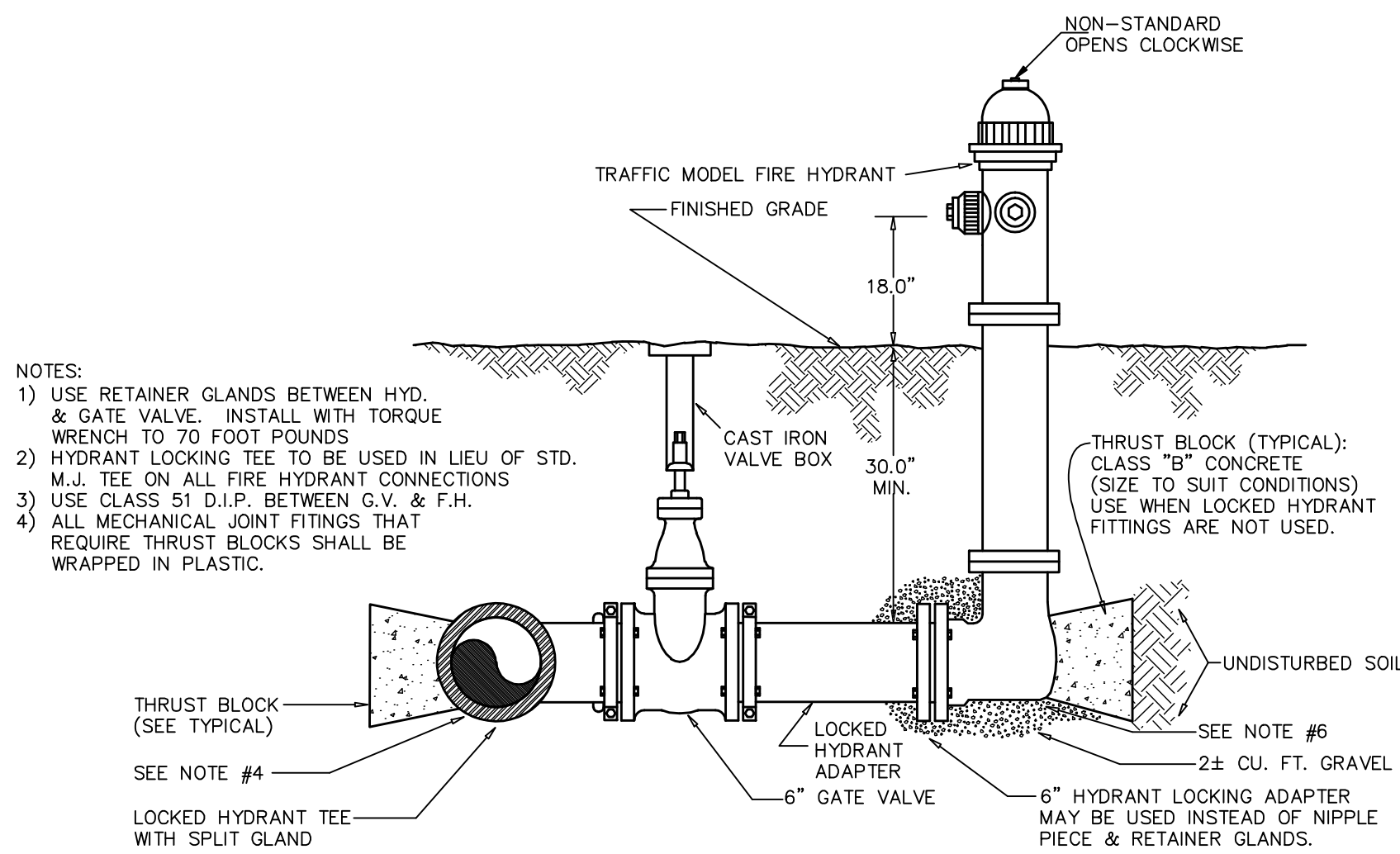
VALVE BOX

(NTS)



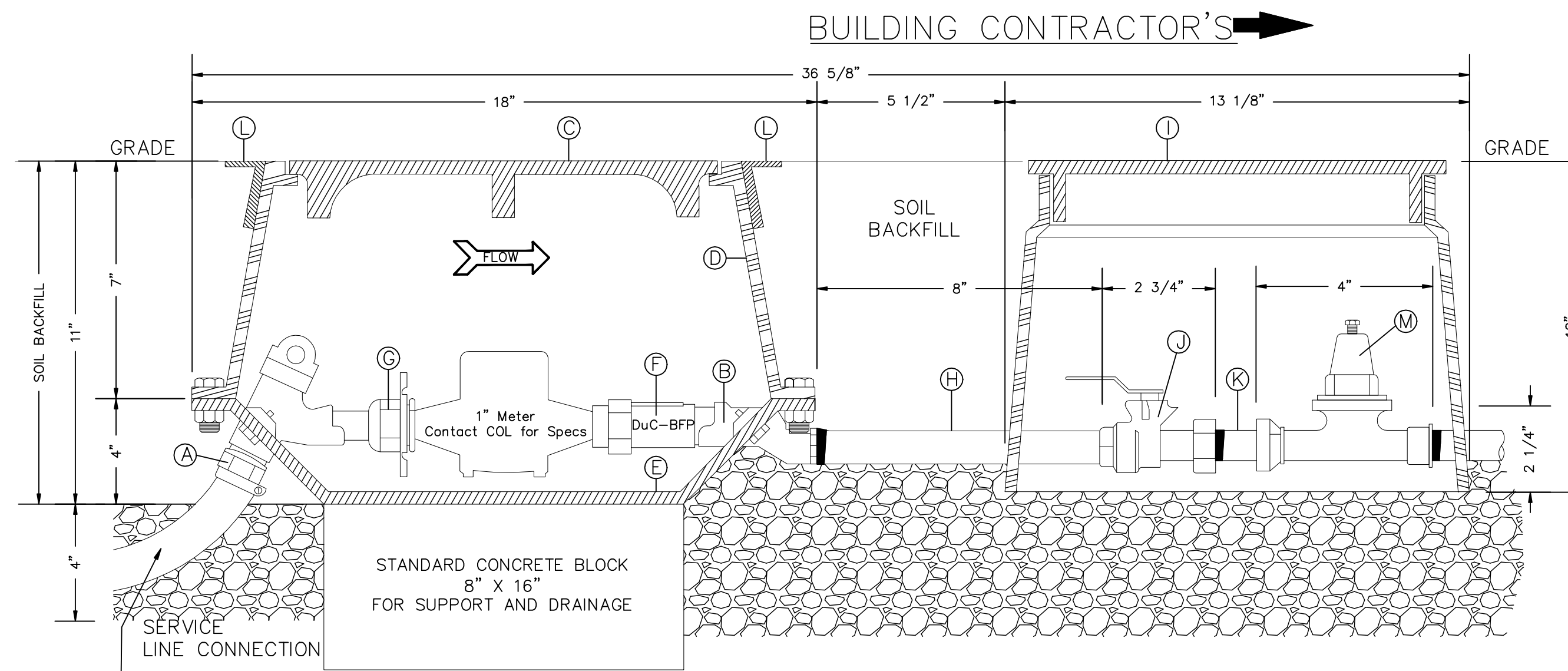
TYPICAL MULTIPLE METER BOX INSTALLATION

(NTS)



**FIRE HYDRANT INSTALLATION
AS SHOWN W/ LOCKED HYDRANT FITTINGS**

(NTS)



CITY OF LAGRANGE RESPONSIBILITY UNLESS NEW DEVELOPMENT

FORD LYL-141-232-T STRETCH YOKEBOX

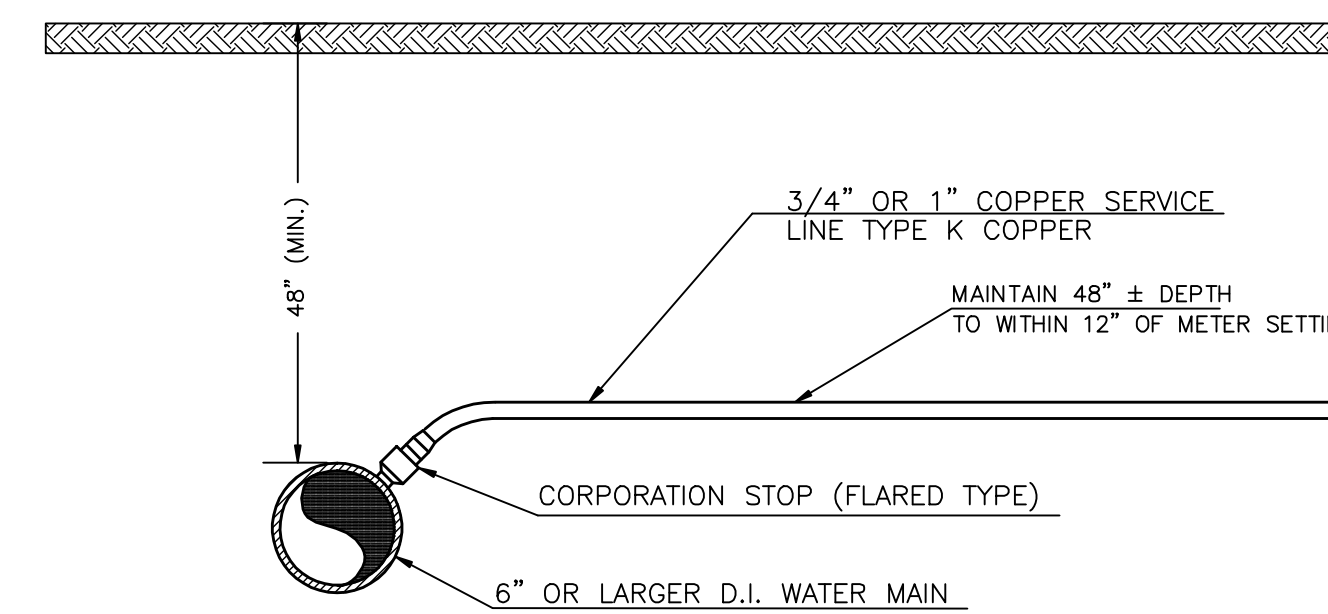
- A) ANGLE INLET VALVE: 1" cts COMPRESSION JOINT
- B) STRAIGHT OUTLET: 1" FEMALE PIPE THREAD
- C) LID: CAST IRON / TOUCH PAD "TOUCH READ" NOTE: USE SOLID LID IF "RADIO READ"
- D) UPPER BODY: PLASTIC
- E) BASE: CAST IRON
- F) BACKFLOW PREVENTER: FORD HBC-31 VALVE
- G) INSTALLATION ACCESSORIES: EXPANSION CONNECTION AND 2 YOKE END GASKETS

DEVELOPER RESPONSIBILITY

- H) 1" x 8" BRASS OR COPPER TUBE NIPPLE
- I) DFP PLASTIC, INC. - 6" PLASTIC VALVE BOX
- J) 1" FORD B11-233 WITH HB2 BALL VALVE WITH HANDLE
- K) CUSTOMER SERVICE CONNECTION
- L) RECTANGULAR ANCHOR FLANGE
- M) PRESSURE REDUCING VALVE (NOT REQUIRED)

TYPICAL METER INSTALLATION

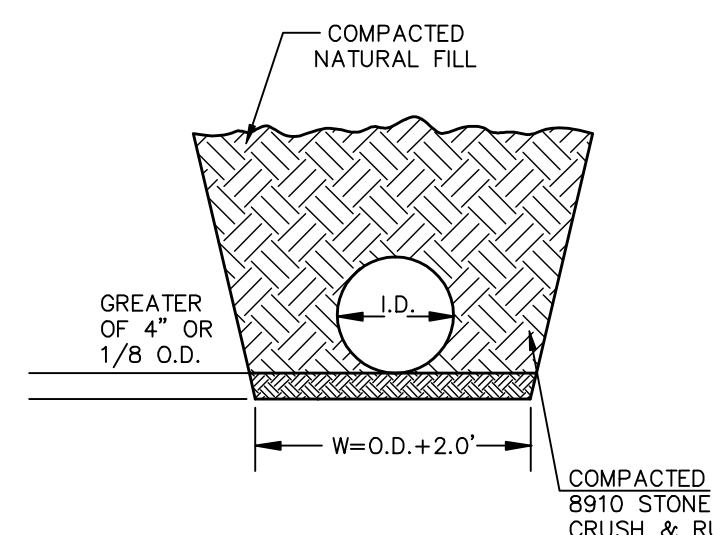
(NTS)



3/4" OR 1" SERVICE CONNECTION

FOR DUCTILE IRON WATER MAIN

(NTS)



**BEDDING FOR D.I. PIPE
NON-ROADWAY TRENCHES**

(NTS)

PIPE DEFLECTIONS		
PIPE SIZE:	18.0' JOINT	20.0' JOINT
4" - 12"	15"	16"
14", 16"	8"	9"
18", 20", 24"	8"	9"

NOTE: FOR MORE INFORMATION, SEE SHEET TWO OF THESE DETAILS.



*SEE PIPE DEFLECTIONS CHART FOR INFO:



SMITH DESIGN GROUP, INC.

208 WEST HARALSON STREET
LAGRANGE, GEORGIA 30240

706-882-5511

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1008 COLQUITT ST.
LAGRANGE, GA
30241

PHONE: 706 884-5279
www.stothard-engineering.com
email: stothard@stothard-engineering.com



REVISIONS

DATE	DESCRIPTION

PROJECT:

**WILLIAM J GRIGGS CENTER
PHASE II
POOL AND PAVILION**

**TROUP COUNTY PARKS AND RECREATION
716 GLENN ROBERTSON DRIVE
LAGRANGE, GEORGIA**

TITLE:

**PHASE 2
STANDARD DETAILS
WATER SYSTEM**

MODIFIED DATE:

JOB NO:

2312

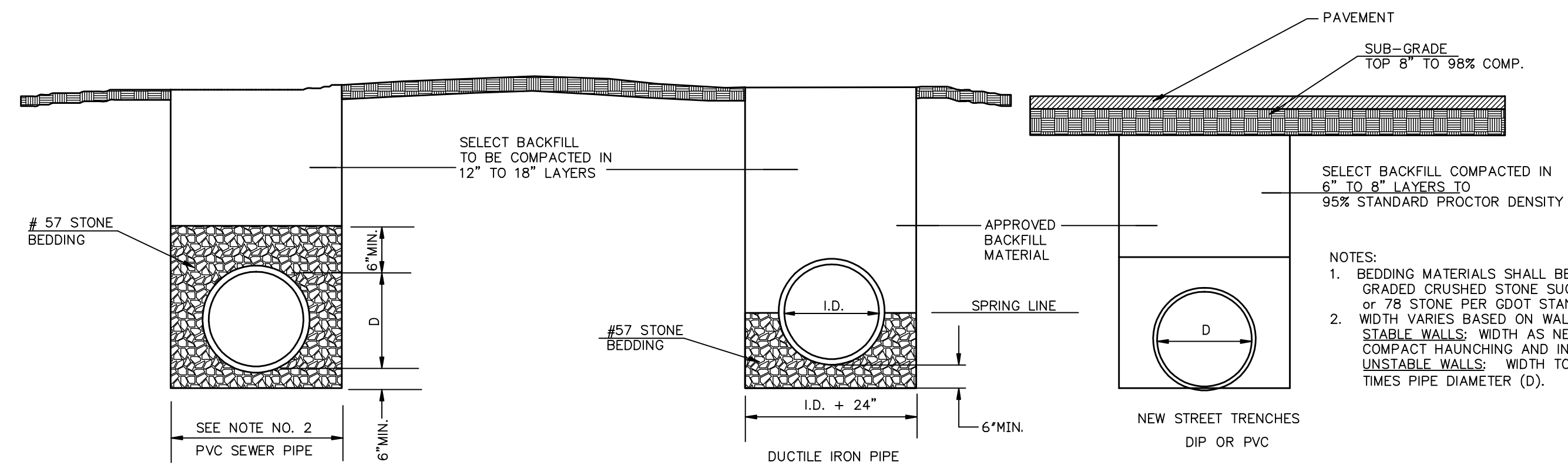
ISSUED DATE:

SHEET:

FOR BIDDING AND PERMIT

13 JULY 2023

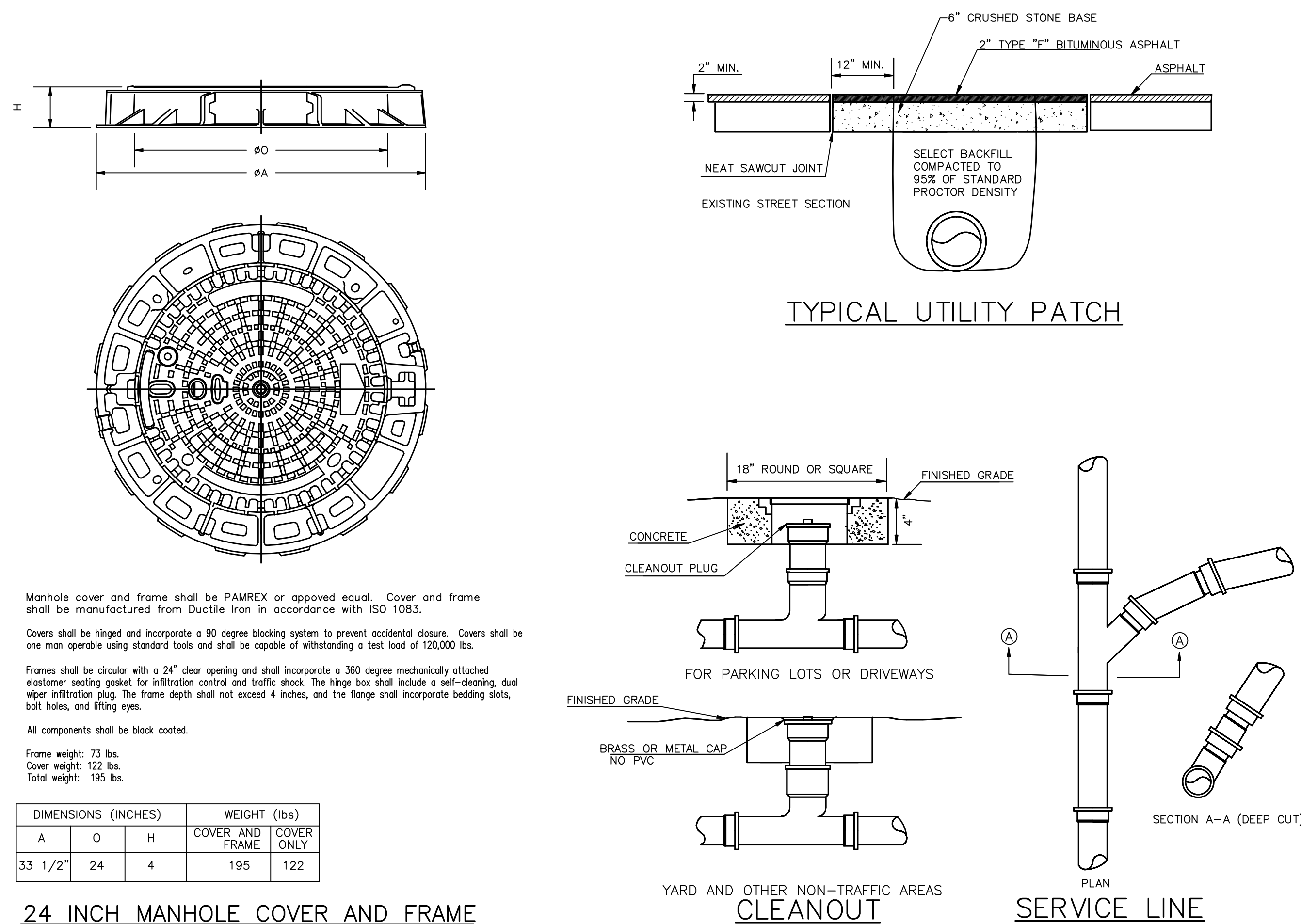
SD-10



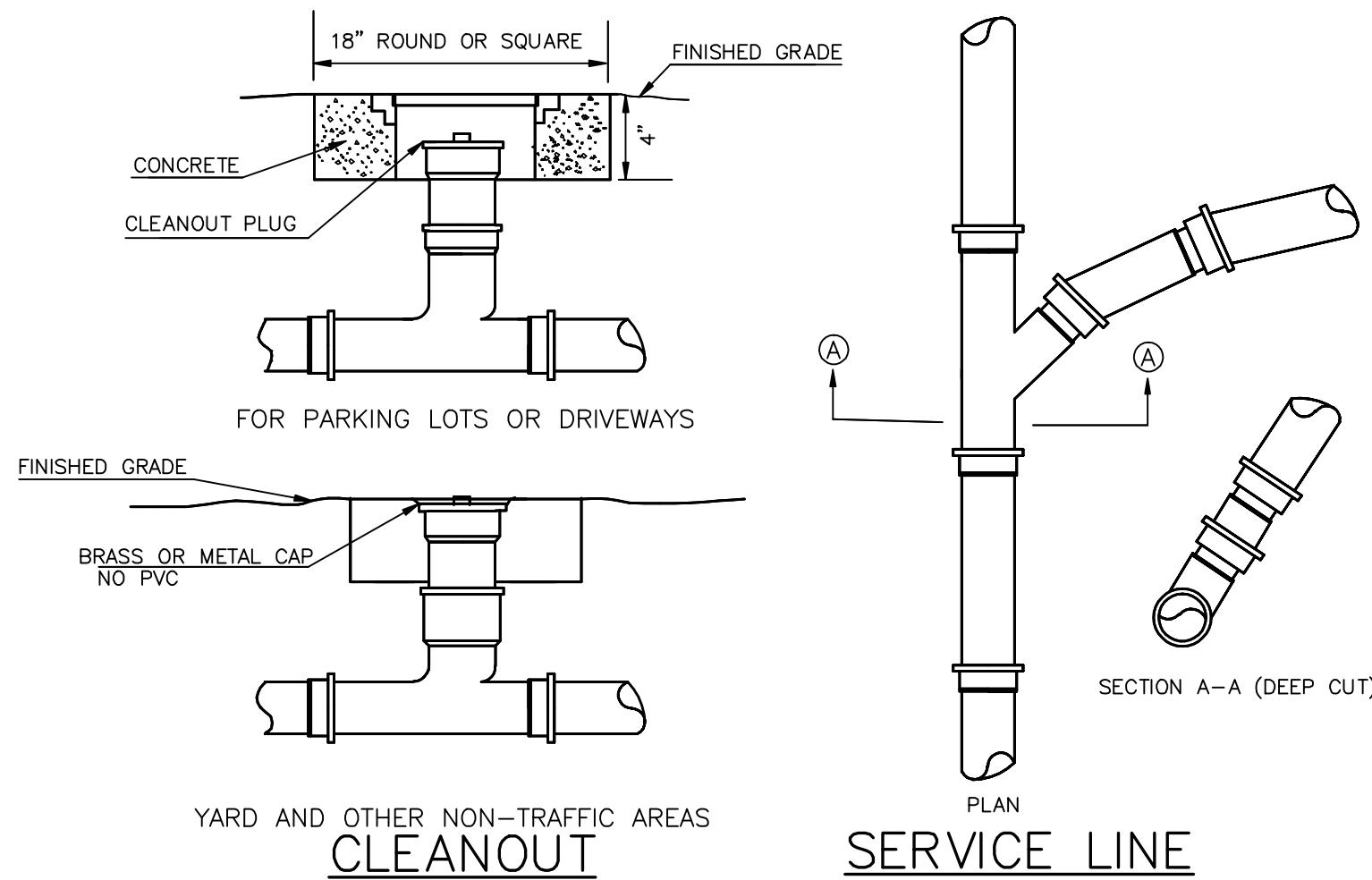
NOTES:
 1. BEDDING MATERIALS SHALL BE 1/4" TO 1 1/2" GRADED CRUSHED STONE SUCH AS: 56,57,6,67,68, or 78 STONE PER GDOT STANDARD SPEC.
 2. WIDTH VARIES BASED ON WALL STABILITY.
 STABLE WALLS: WIDTH AS NEEDED TO JOIN PIPE AND COMPACT HAUNCHING AND INITIAL BACKFILL.
 UNSTABLE WALLS: WIDTH TO BE A MINIMUM OF FIVE TIMES PIPE DIAMETER (D).

NON STREET TRENCHES IN-STREET TRENCHES

BEDDING REQUIREMENTS FOR P.V.C. AND DUCTILE IRON GRAVITY SEWER PIPE



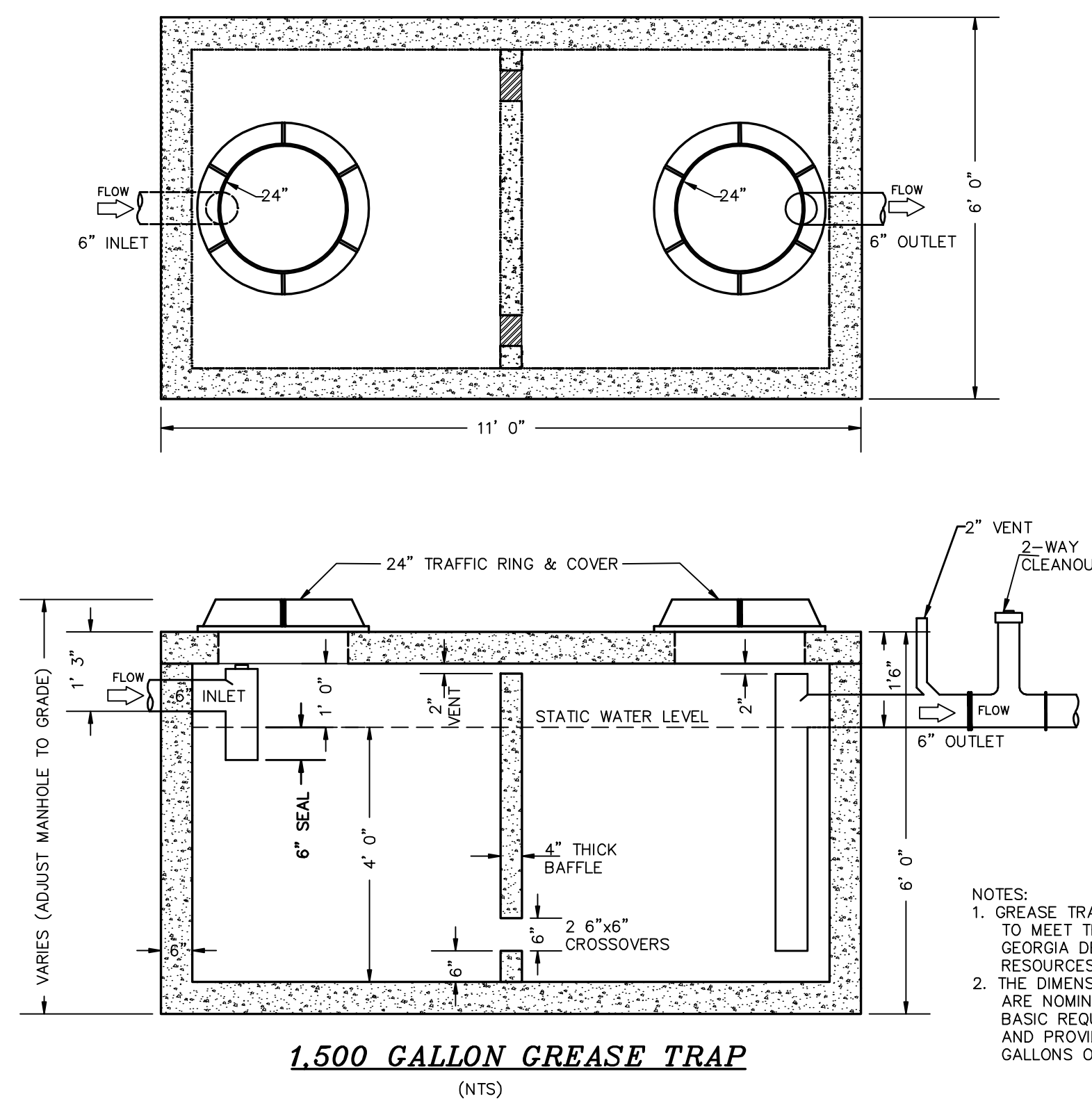
TYPICAL UTILITY PATCH



Manhole cover and frame shall be PAMREX or approved equal. Cover and frame shall be manufactured from Ductile Iron in accordance with ISO 1083.
 Covers shall be hinged and incorporate a 90 degree blocking system to prevent accidental closure. Covers shall be one man operable using standard tools and shall be capable of withstanding a test load of 120,000 lbs.
 Frames shall be circular with a 24" clear opening and shall incorporate a 360 degree mechanically attached elastomer seating gasket for infiltration control and traffic shock. The hinge box shall include a self-cleaning, dual wiper infiltration plug. The frame depth shall not exceed 4 inches, and the flange shall incorporate bedding slots, bolt holes, and lifting eyes.
 All components shall be black coated.
 Frame weight: 73 lbs.
 Cover weight: 122 lbs.
 Total weight: 195 lbs.

DIMENSIONS (INCHES)			WEIGHT (lbs)	
A	O	H	COVER AND FRAME	COVER ONLY
33 1/2"	24	4	195	122

24 INCH MANHOLE COVER AND FRAME



NOTES:
 1. GREASE TRAP SHALL BE MANUFACTURED TO MEET THE REQUIREMENTS OF THE GEORGIA DEPARTMENT OF HUMAN RESOURCES, DIVISION OF PUBLIC HEALTH.
 2. THE DIMENSIONS SHOWN ON THIS DRAWING ARE NOMINAL. TANKS SHALL MEET THE BASIC REQUIREMENTS SHOWN HEREON AND PROVIDE A MINIMUM OF 1,500 GALLONS OF STORAGE.

1,500 GALLON GREASE TRAP (NTS)



SMITH DESIGN GROUP, INC.

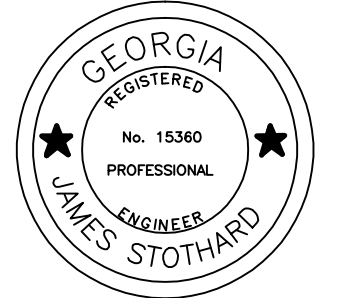
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REVISIONS

DATE	DESCRIPTION

PROJECT:
**WILLIAM J GRIGGS CENTER
 PHASE II
 POOL AND PAVILION**
**TROUP COUNTY PARKS AND RECREATION
 716 GLENN ROBERTSON DRIVE
 LAGRANGE, GEORGIA**

TITLE:
**PHASE 2
 STANDARD DETAILS
 SANITARY SEWER**

MODIFIED DATE:	JOB NO: 2312
ISSUED DATE: FOR BIDDING AND PERMIT 13 JULY 2023	SHEET: SD-11

- E. Gate Valves:**
- When full open, the gate valves shall have a clear waterway opening equal to the nominal diameter of the pipe. Operating nut or wheel shall have an arrow cast in the metal indicating the direction of opening. Each valve shall have the manufacturer's distinctive marking, pressure rating and year of the manufacture cast on the body. Prior to shipment from the factory, each valve shall be tested by applying it to a hydraulic pressure equal to twice the specified working pressure.
 - Hydrostatic and leakage tests shall be conducted in strict accordance with AWWA C500 Section 28.
 - Gate Valves 2 1/2 inch and smaller: shall be all bronze valves and shall conform to the Fed. Spec. WW-V-54C, Class A, Type 1, and rated at 200 psi for water. Valves shall be handwheel operated with a union bonnet, solid wedge disc, threaded ends and a non-rising stem. The minimum weight of the valves shall be as follows:

Valve Size (inches)	Valve Weight (pounds)
1/2	1.2
3/4	1.7
1	2.7
1 1/4	3.9
1 1/2	5.2
2	9.0
2 1/2	13.8

- Valve Joints: All gate valve joints shall have mechanical joint ends, flanged ends, or threaded ends to fit the pipe run in which they are to be used, except valve joints installed on slip joint pipe shall have mechanical joint ends unless otherwise specified.

- Curb Stops: Curb Stops 3/4" and 1" in size shall be Mueller H-15200, Hays 5045, or Ford B21. Curb Stops 1 1/2" or 2" in size shall be Mueller H-15174, Hays 4005, or Ford B21.
- Corporation Stops: Shall be Mueller H-15000 or Ford FB600.

- Accessories:
 - Anchorage: Provide anchorages for tees, wyes, crosses, plugs, caps, bends, valves and hydrants. After installation, apply full coat of asphalt or other acceptable corrosion-retarding material to surfaces of ferrous anchorages.
 - Clamps, Straps, and Washers: Steel, ASTM A 197.
 - Rods: Steel, ASTM A 575.
 - Root Couplings: Malleable-iron, ASTM A 197.
 - Bolts: Steel, ASTM A 307.
 - Cast-Iron Washers: Gray-iron, ASTM A 126.

PART 3 – EXECUTION

3.01 TRENCHING, BACKFILLING AND COMPACTION

- Trenching, backfilling and compacting: In accordance with applicable requirements of Division Two Section 02200 – Earthwork.

3.02 INSTALLATION

- The Contractor will top existing lines and install meters.
- Contractor to arrange and pay for Item A above.
- Vertical clearance between sewer and water lines: Eighteen (18) inches minimum.
- Installation of Valves:
 - Prior to installation, valves shall be inspected for direction of opening, freedom of operation, tightness of pressure containing bolting, cleanliness of valve parts and especially seating surfaces, handling damage, and cracks. Defective valves shall be replaced.
 - Valves, fittings and plugs shall comply with AWWA C600.
 - Install valves as indicated with stems pointing up.
 - Provide valve box over underground valves.
- Thrust Blocks: Concrete, 3,000 psi. Provide on all tees, wyes and bends.
- Valve Boxes: Provide as indicated, constructed of poured-in-place concrete, precast concrete, or Gray cast iron meeting the requirements of ASTM A48 for class 30 iron.
- Flush and disinfect water system in accordance with AWWA C601.

3.03 TESTING

- Upon completion of waterline construction, notify City of LaGrange Water Department and arrange for testing the system. The maximum allowable leakage shall be ten(10) gallons per inch of pipe diameter per mile of pipe per day.
- Contractor to apply and pay for all fees and testing associated with installation.

END OF SECTION

**SECTION 02700
SEWERAGE & DRAINAGE SYSTEM**

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

- General Conditions and Supplementary Conditions apply to this Section.

1.02 WORK INCLUDED

- Sanitary Sewerage System.
- Storm Sewer System.
- Payment of all fees for service.

1.03 RELATED WORK SPECIFIED ELSEWHERE

- Erosion Control: Section 02100.
- Trenching for Utility Systems: Section 02200.

1.04 QUALITY ASSURANCE

- Applicable requirements of the following standards and codes apply:
 - Standard Plumbing Code with local amendments.
 - GDOT's "Standard Specifications for Construction of Roads and Bridges", Section 550 and 668.
 - American Society for Testing and Materials (ASTM):
 - 828–80Low Air Pressure Testing for Wastewater Piping Systems
 - 2321 Installation of Poly Vinyl Chloride (PVC) Plastic Pipe and Fittings
 - 3034–89 Type PSM Poly Vinyl Chloride (PVC) Sewer Pipe and Fittings
 - 1248–84 (1989) Specification for Polyethylene Plastics Molding and Extrusion Materials.
 - 2729–89 Poly Vinyl Chloride (PVC) Sewer Pipe and Fittings
 - 405–89 Corrugated Polyethylene (PE) Tubing and Fittings

1.05 SUBMITTALS

- Contractor or Applicator qualifications.

1.06 JOB CONDITIONS

- Coordinate installation of sanitary service with City of LaGrange.

PART 2 – MATERIALS

2.01

- General: Elts, tees, reducing tees, wyes, couplings, increasers, crosses, transitions and endcaps of same type and class of material as piping unless otherwise indicated.
- PVC Plastic Pipe: ASTM 2241, SDR 26; with elastomeric sealed

joints in accordance with ASTM D3139

C. Sanitary Sewer Pipe: Shall be PVC with bedding type C as specified above.

- Sanitary sewer services shall be PVC, Schedule 40 solvent welded pipe. All bends shall be long radius bends.
- Suitable adaptors shall be provided to connect solvent welded pipe to bell and spigot wye at connection to main.
- Storm Sewer:
 - Reinforced Concrete Pipe shall be Class III, complying with the requirements of Georgia DOT. Class of pipe shall be in accordance with "Standard Specifications," Section 843 and determined by the proposed height of fill above the pipe as shown on the drawings.
 - High Density Polyethylene Pipe (HDPE) shall be smooth lined, outside corrugated pipe conforming to the requirements of AASHTO M-294 TYPE "S" with molded bell/bell couplers.

E. Concrete Pipe Joints: Concrete pipe joints may be sealed through the use of O-Ring gaskets or preform plastic gaskets. Gaskets shall be installed in accordance with the manufacturer's recommendation.

F. Miscellaneous Drainage Structures: Miscellaneous drainage structures shall include, but not be limited to sanitary sewer manholes, storm sewer manholes, catch basins, drop inlets, yard inlets, and junction boxes. These structures may be precast concrete, poured-in-place or brick masonry.

- Precast Concrete: All precast structures shall be cast at an Georgia DOT approved casting yard. Each unit shall bear the name or trademark of the manufacturer and the date it was cast, stenciled or otherwise placed thereon in such a manner as to be clearly legible at time of delivery. Each precast unit shall bear the stamp of an approved testing laboratory, or the Georgia DOT, as manufacturer. Precast units shall comply with the requirements of Georgia DOT.
- Poured-in-Place: Poured-in-place structures shall comply with the requirements of Georgia DOT.
- Brick: Brick shall comply with the requirements of Georgia DOT.
- All covers, frames, grates, and steps shall be furnished in accordance with the details shown on the drawings.
- Sanitary sewer invert channels shall be shaped to lines and grades shown on drawings, and the channel shall be smooth.

G. Mortar and Grout: Mortar and grout shall comply with the requirements of GDOT's "Standard Specifications," Section 834.03, except that where used with sanitary sewer manholes the mortar shall consist of one part cement to two parts mortar sand and the use of hydrated lime shall not be permitted.

H. Pipe Bedding: GDOT, "Standard Specifications," Section 207.

PART 3 – EXECUTION

3.01 TRENCHING, BACKFILLING, AND COMPACTION

- Generally, excavate to the line and grade shown. The excavations shall not be carried closer than to within two inches of final grade until the pipe is ready to be installed. The remaining two inches shall be removed by fine graders just ahead of the pipe laying operation.
- Backfilling from bottom of trench to a point at least one foot over the top of pipe barrel shall be placed by hand in six inch layers and thoroughly tamped into place around the pipe. Extreme care shall be exercised to the level one foot above pipe barrel to insure that no damage is caused to the pipe or that its alignment or grade is not disturbed in any way. Only clean materials may be used in this operation, clean earth (no rocks) sand or rock dust.

3.02 LAYING PIPE

- Reinforced Concrete Pipe:
 - Reinforced concrete pipe shall be installed in accordance with the requirements of GDOT's "Standard Specifications," Sections 550. All pipe shall be laid to the line and grade called for on the plans. Each pipe shall be checked by the Contractor to insure that this result is obtained. The finished work shall be straight and shall be sighted through between manholes.
 - Each pipe shall be inspected for defect prior to being lowered into the trench and inside of pipe and outside of spigot shall be cleaned of any dirt or foreign matter.
 - Construction shall begin at the outlet end and proceed with spigot ends pointing in the direction of flow.
 - Completion of the pipe bedding and backfilling the remainder of the trench shall follow closely behind the laying of the pipe.

3.03 CONSTRUCTION OF DRAINAGE STRUCTURES

- Construction of Drainage Structures: Drainage structures shall be constructed in accordance with the requirements of GDOT's "Standard Specifications," Sections 668 for precast or pour-in-place structures. Brick masonry structures shall comply with the requirements of Section 668. Structures shall be constructed to the sizes and shapes as shown on the Drawings. Frames and tops shall be set to the elevations as indicated on the Drawings.

3.04 INSTALLATION OF SEWERS

- Install sewer lines in straight line and on uniform rate of grade between points where changes in alignment or grade are shown. Bed barrel of pipe firmly at required line and grade. Keep stopper in mouth of pipe when pipe-laying is not in progress. Set bell of pipe upstream. Support barrels of pipe continuously and scoop out space for proper clearance of bell.
- After installed piping has been tested and inspected, backfill excavations with approved material tamped compactly in place per City of LaGrange requirements. Tamp carefully around pipe and above top of pipe in layers not exceeding six inches. Take care in backfilling not to disturb pipe.
- Provide granular bedding on all PVC pipe. Provide granular bedding and deterring materials and methods necessary to facilitate installation.

3.05 CLEANING PIPES AND STRUCTURES

- Clear interior of piping and structures of dirt and other superfluous material as job progresses. Maintain swab or drag in line and pull past each joint as it is completed.
- In large, accessible piping, brushes and brooms may be used for cleaning.
- Flush lines between manholes, if required, to remove collected debris.

3.06 TESTING

- All sanitary sewer shall be tested by the Contractor and at his expense for diametric deflection using a GO-NO-GO type mandrel or other approved method. The mandrel shall have an outside diameter of not less than 95% of the pipe inside diameter. The maximum allowable deflection shall be 5%. Pipes with a deflection greater than 5% shall be replaced at the Contractor's expense.
- All PVC sanitary sewers and services shall be marked with a continuous tracer tape consisting of 6 plies of Copolymer Film bonded without adhesives, bearing a continuous message "Caution Sewer Line Buried Below". The tape shall be laid 6 inches above the installed pipe to facilitate location of the main.
- Air Testing
 - General: On all Sanitary sewer mains and services, the Contractor shall conduct a line acceptance test using low pressure air. The air test shall be conducted after the pipe has been backfilled and the cost of air testing shall be included in other items of work. Equipment to be used in making the test shall be specifically designed for this purpose and shall be Chemre Air-Loc Equipment or approved equal. The Engineer shall be advised at least 48 hours before tests are conducted.
 - Procedure: All pneumatic plugs shall be seal tested before being used in the actual test installation. One length of pipe shall be laid on the ground and sealed at both ends with the pneumatic plug to be checked. Air shall be introduced into the plug to 25 psig. The sealed pipe shall be pressurized to 3 psig. The plugs shall hold against the pressure without bracing and without movement of the plugs out of the pipe.

After a manhole to manhole reach of pipe has been backfilled and cleaned, the plugs shall be placed in the line at each manhole and inflated to 25 psig. Low pressure air shall be introduced into this sealed line until the internal air pressure reaches 4 psig greater than the average back pressure of any groundwater that may be over the pipe. At least two minutes shall be allowed for the air pressure to stabilize. After the air pressure has stabilized to a minimum of 3.5 psig greater than the average back pressure from any groundwater over the pipe, the air hose from the control panel to the air supply shall be disconnected. The test shall be deemed "Acceptable" if the time required in minutes for the pressure to decrease from 3.5 to 2.5 psig (greater than the average back pressure of any groundwater over the pipe) shall not be less than the time shown for the given diameters in the following table:

Pipe Diameter in Inches	Minimum Time in Minutes
4	2.0
6	3.0
8	4.0
10	5.0
12	5.5
15	7.5
18	8.5
21	10.0
24	11.5

In areas where groundwater is known to exist, the Contractor shall install a one-half inch diameter capped pipe nipple, approximately 10-inches long through the manhole wall on top of one of the sewer lines entering the manhole. This shall be done at the time the line is installed. Immediately prior to the performance of the Line Acceptance Test, the groundwater shall be determined by removing the pipe cap, blowing air through the pipe nipple into the ground so as to clear it, and then connecting a clear plastic tube to the nipple. The tube shall be held vertically and a measurement of the height in feet of water over the invert of the sewer pipe shall be taken after the water has stopped rising in the tube. The measurement in feet shall be converted to psig by dividing it by 2.30. For example, if the height of water is 11.5 feet, then the added pressure will be 11.5/2.3=5 psig. This increases the test pressure from 3.5 psig to 8.5 psig and the minimum allowable residual pressure from 2.5 psig to 7.5 psig.

Should the line fail the pressure test, the Contractor shall, at his own expense, determine the source of leakage and make repairs as necessary. After repairs are made, the line shall be re-tested until deemed "Acceptable".

- All PVC sanitary sewer services shall be installed in such a manner as to permit the passage of a television camera from the termination of the service to its connection with the sewer main. The contractor shall televise and record all sewer lines and services prior to acceptance.

END OF SECTION

ARCHITECT'S STAMP
STATE OF GEORGIA
7575
REGISTERED ARCHITECT
SIGNATURE REQUIRED

SMITH DESIGN GROUP, INC.

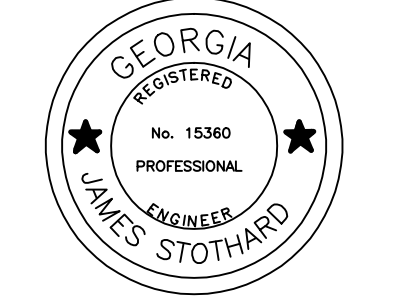
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REVISIONS

DATE	DESCRIPTION

PROJECT:

**WILLIAM J GRIGGS CENTER
PHASE II
POOL AND PAVILION**

**TROUP COUNTY PARKS AND RECREATION
716 GLENN ROBERTSON DRIVE
LAGRANGE, GEORGIA**

TITLE:

**PHASE 2
STANDARD
SPECIFICATIONS
SHEET 3**

MODIFIED DATE:	JOB NO: 2312
ISSUED DATE: FOR BIDDING AND PERMIT 13 JULY 2023	SHEET: SD-14

GEORGIA UNIFORM CODING SYSTEM

FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES

GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
BT	TEMPORARY BRIDGE			A temporary bridge or culvert-type structure protecting a stream or waterway from damage by crossing construction equipment.
BS	STORMWATER PROTECTION			A paved or short section of pipe channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
BU	SURFACE HOUSING			A rough soil surface with horizontal depressions on a contour or slope left in a permanent condition after grading.
TC	TURFGRASS CURB			A footing or staked barrier installed with the water (it may be referred to as a footing curb, sill curb, or sill curb).
TP	TOPSOILING			The practice of striping of the more fertile soil, turning it over, and mixing it over the disturbed area after completion of construction.
TR	TREE PROTECTION			To protect desirable trees from injury during construction activity.
W	WATER CONTROL			Flood or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

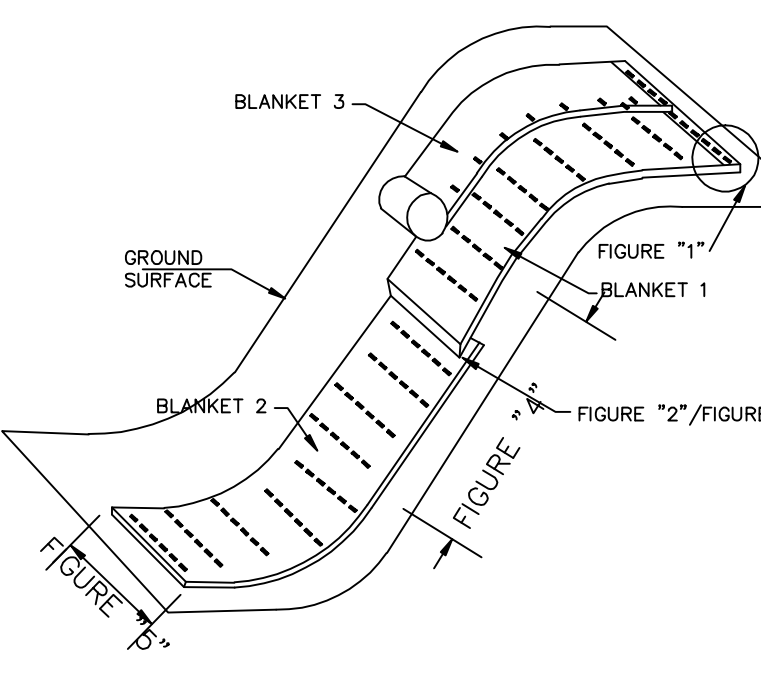
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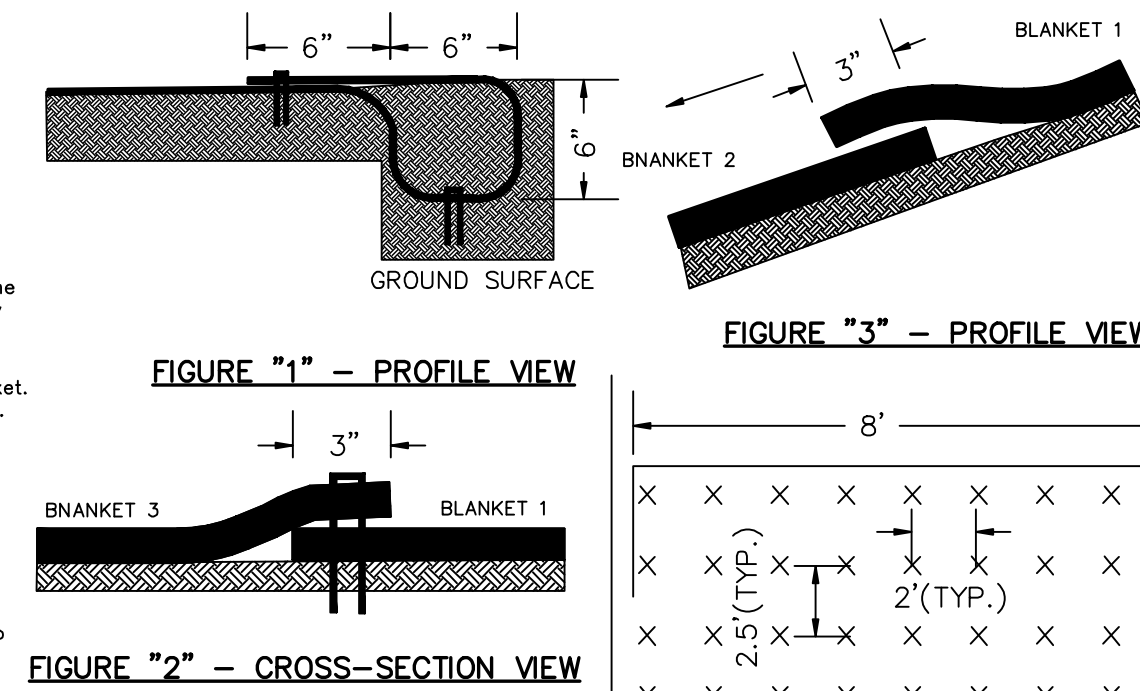
VEGETATIVE PRACTICES

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BS	STORMWATER PROTECTION			A paved or short section of pipe channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
BU	SURFACE HOUSING			A rough soil surface with horizontal depressions on a contour or slope left in a permanent condition after grading.
TC	TURFGRASS CURB			A footing or staked barrier installed with the water (it may be referred to as a footing curb, sill curb, or sill curb).
TP	TOPSOILING			The practice of striping of the more fertile soil, turning it over, and mixing it over the disturbed area after completion of construction.
TR	TREE PROTECTION			To protect desirable trees from injury during construction activity.
W	WATER CONTROL			Flood or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.

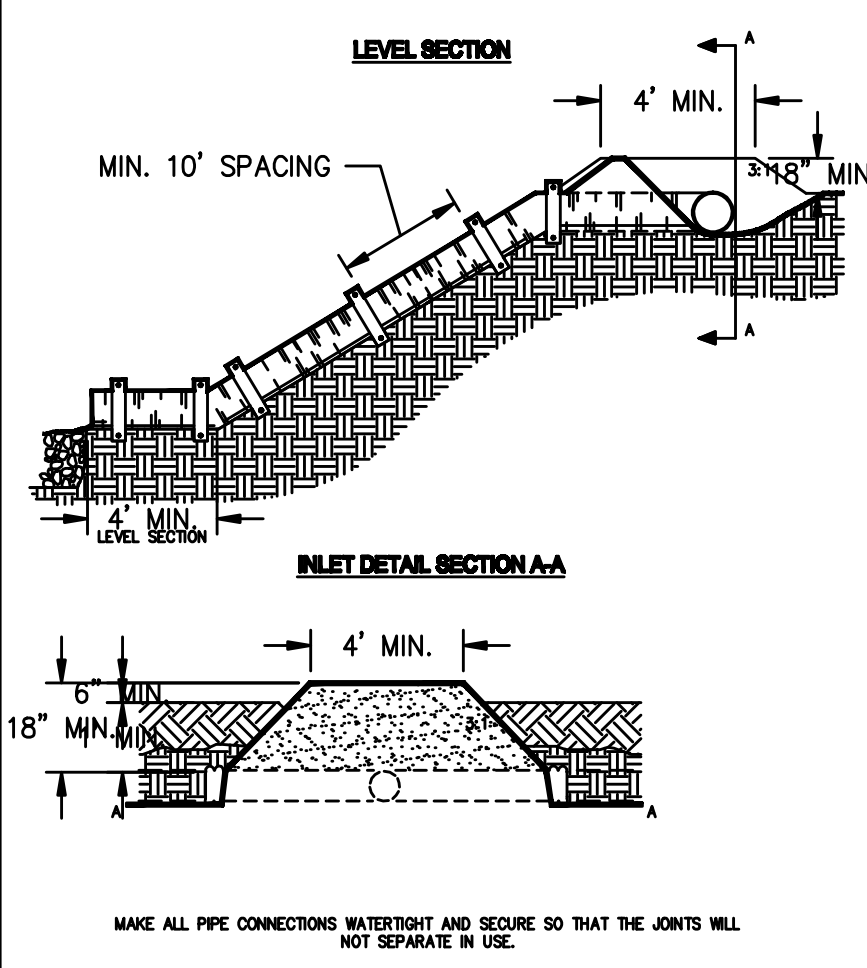


- Step 1 Site Preparation**
Prepare site to design profile and grade. Remove debris, rocks, clods, etc. Ground surface should be smooth prior to installation to ensure blanket remains in contact with slope.
- Step 2 Seeding**
Seeding of site should be conducted to design requirements or to follow local or state seeding requirements as necessary.
- Step 3 Staple Selection**
At a minimum, 6" long by 1" crown, 11 gauge staples are to be used to secure the blanket to the ground surface. Installation in rocky, sandy or other loose soil may require longer staples.
- Step 4 Excavate Anchor Trench and Secure Blanket**
Excavate a trench along the top of the slope to secure the upstream end of blanket. The trench should run along the length of the installation, be 6" wide and 6" deep. Staple blanket along bottom of trench, fill with compacted soil, overlap blanket towards toe of slope and secure with a row of staples (shown in Figures A, B and D).
- Step 5 - Secure Body of Blanket**
Roll blanket downslope from anchor trench. Staple body of blanket following the pattern shown in Figure C. Leave end of blanket unstapled to allow for overlap shown in Figure E. Place downstream blanket underneath upstream blanket to form shingle pattern. Staple seam as shown in Figure C. Stapling pattern shown in Figure C reflects minimum staples to be used. More staples may be required to ensure blanket is sufficiently secured to resist mowers and foot traffic and to ensure blanket is in contact with soil surface over the entire area of the blanket.
- Step 6 Continue Along Slope - Complete Installation**
Overlap adjacent blankets as shown in Figure F and repeat Step 5. Secure toe of slope using stapling pattern shown in Figure D. Repeat steps of installation by stapling at 1.0' intervals along the terminal edge.

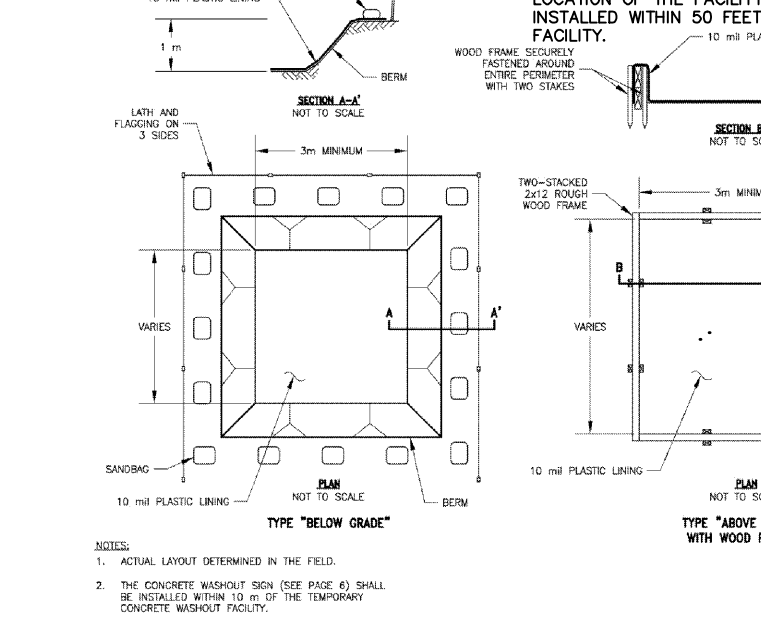


EROSION CONTROL BLANKET

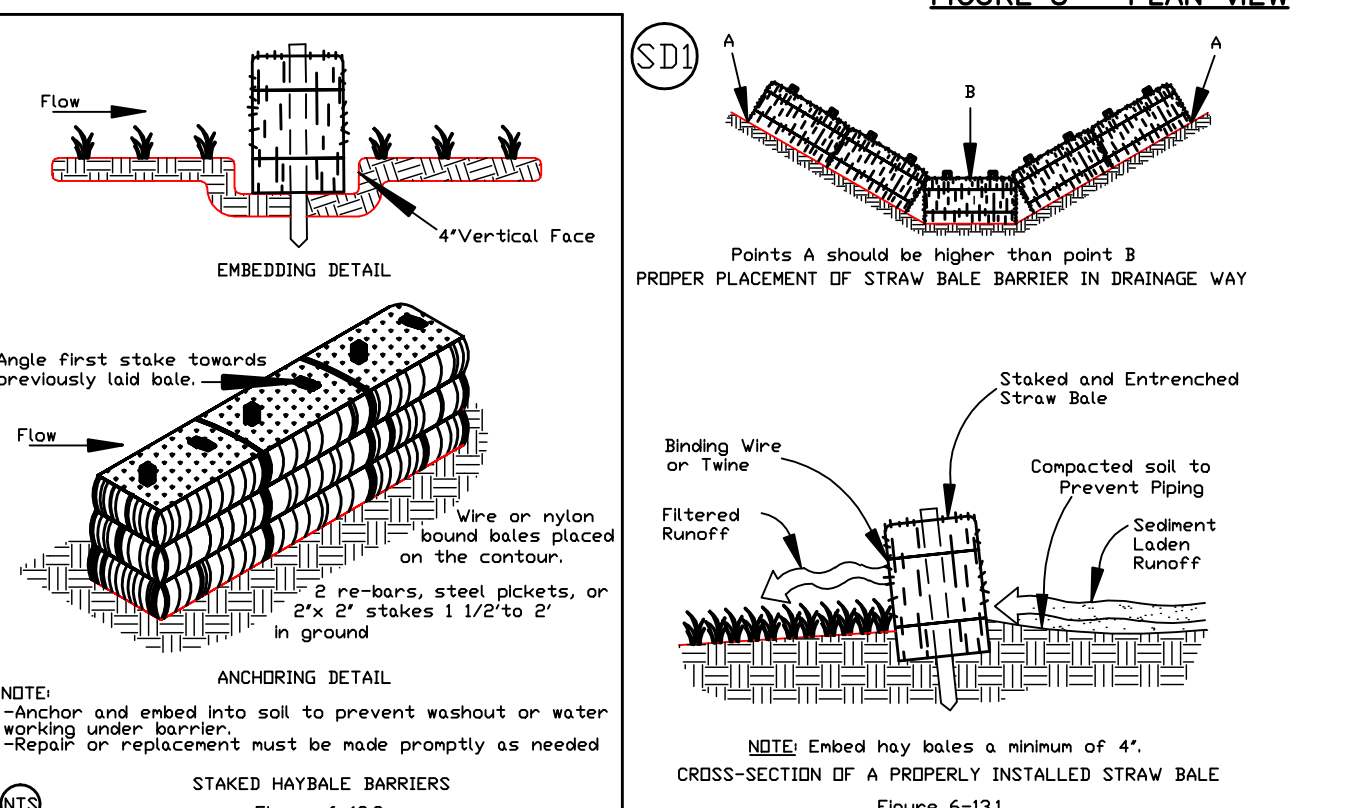
DOWNDRAIN PIPE AND INLET DETAIL



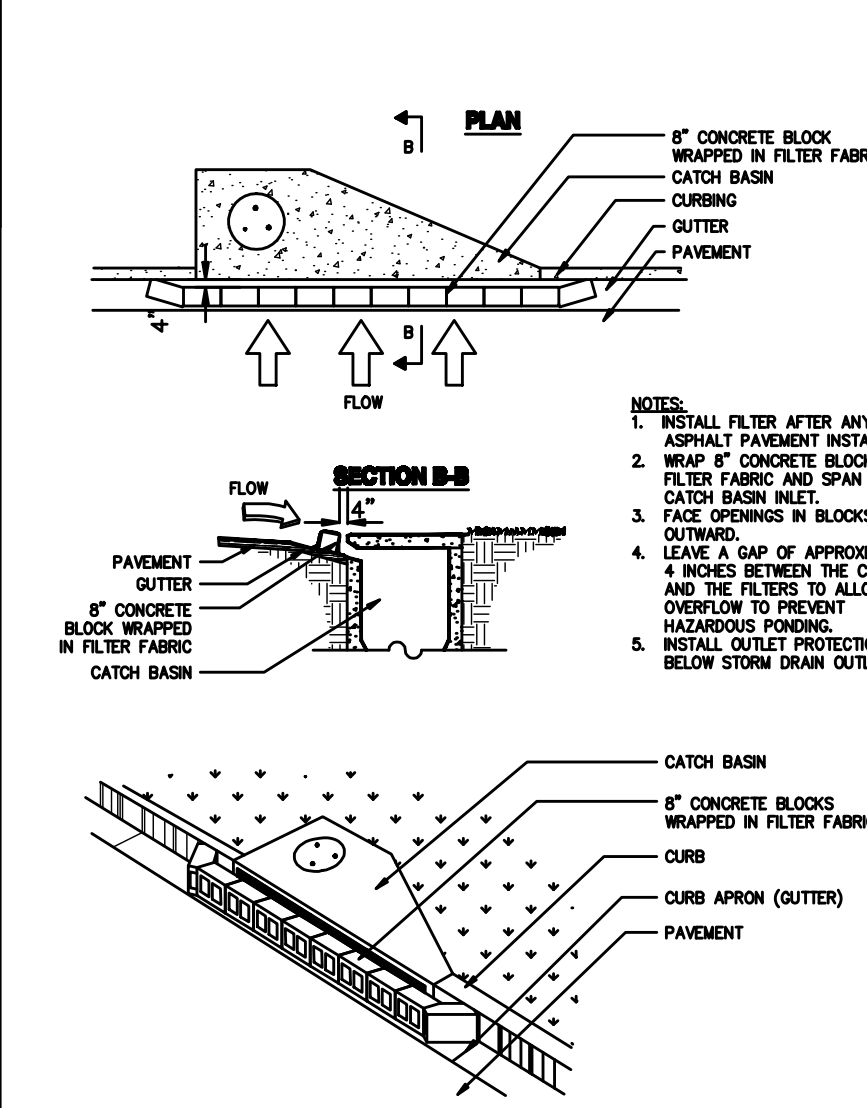
CONCRETE WASH-OUT AREA



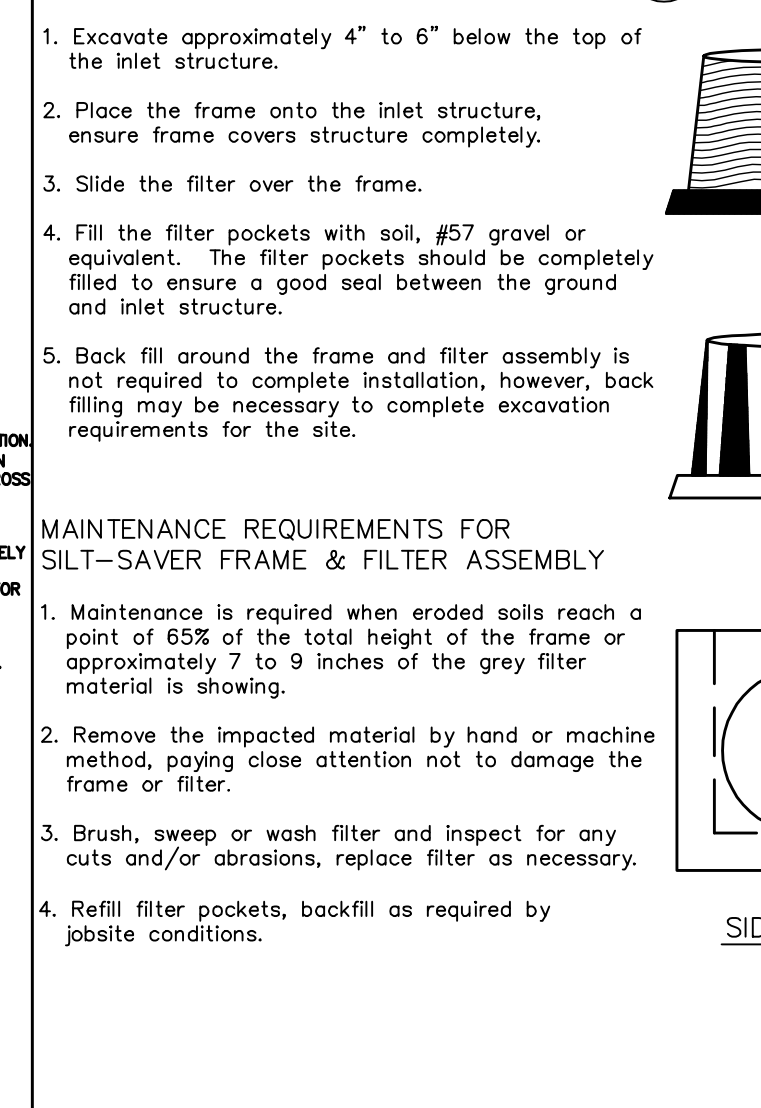
EROSION CONTROL BLANKET



CURB INLET FILTER 'PIGS IN BLANKET'



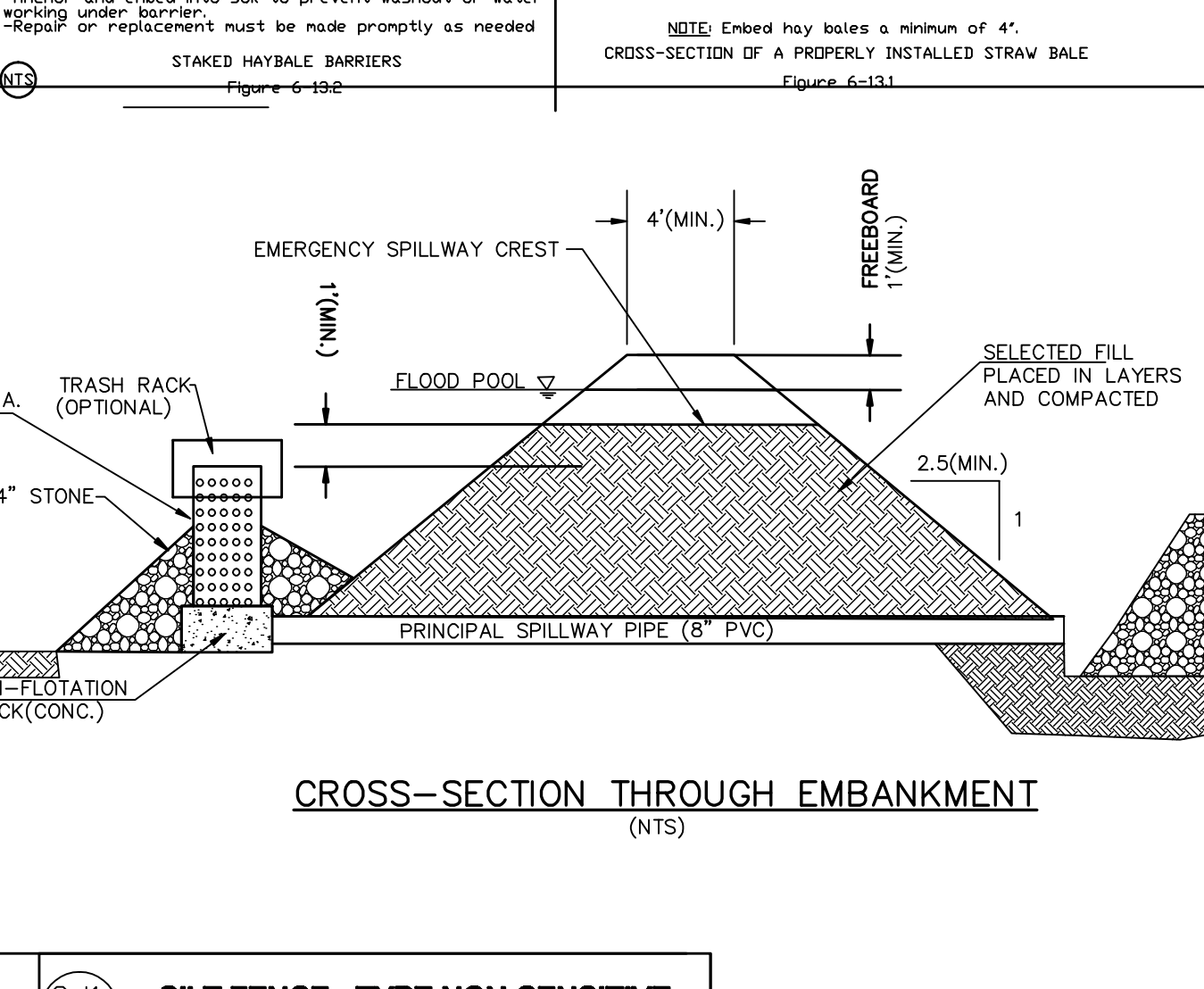
CONCRETE WASH-OUT AREA



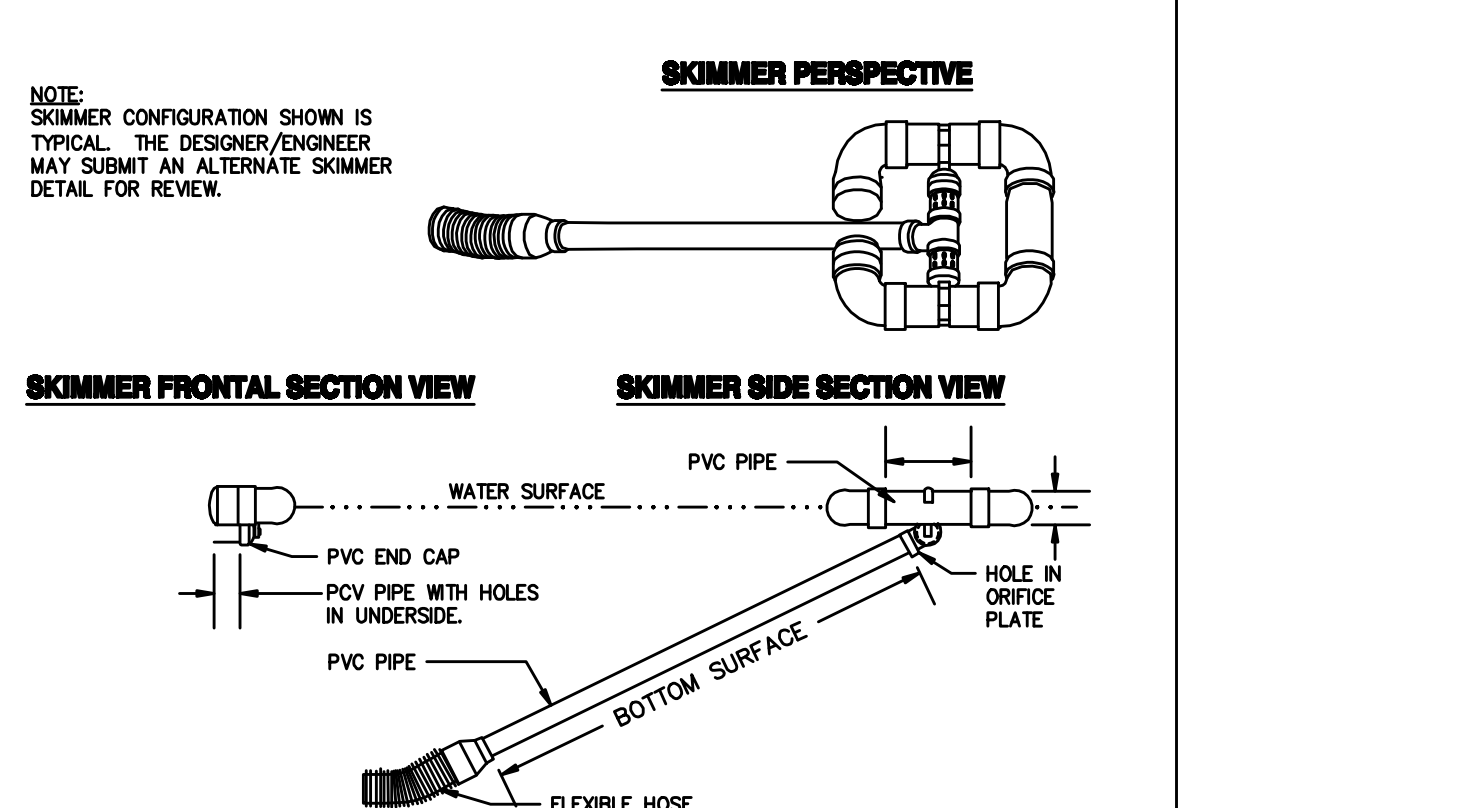
TYPICAL CONSTRUCTION SEQUENCE FOR SILT-SAVER FRAME & FILTER ASSEMBLY

- Excavate approximately 4" to 6" below the top of the inlet structure.
- Place the frame onto the inlet structure, ensure frame covers structure completely.
- Slide the filter over the frame.
- Fill the filter pockets with soil, #57 gravel or equivalent. The filter pockets should be completely filled to ensure a good seal between the ground and inlet structure.
- Back fill around the frame and filter assembly is not required to complete installation, however, back filling may be necessary to complete excavation requirements for the site.

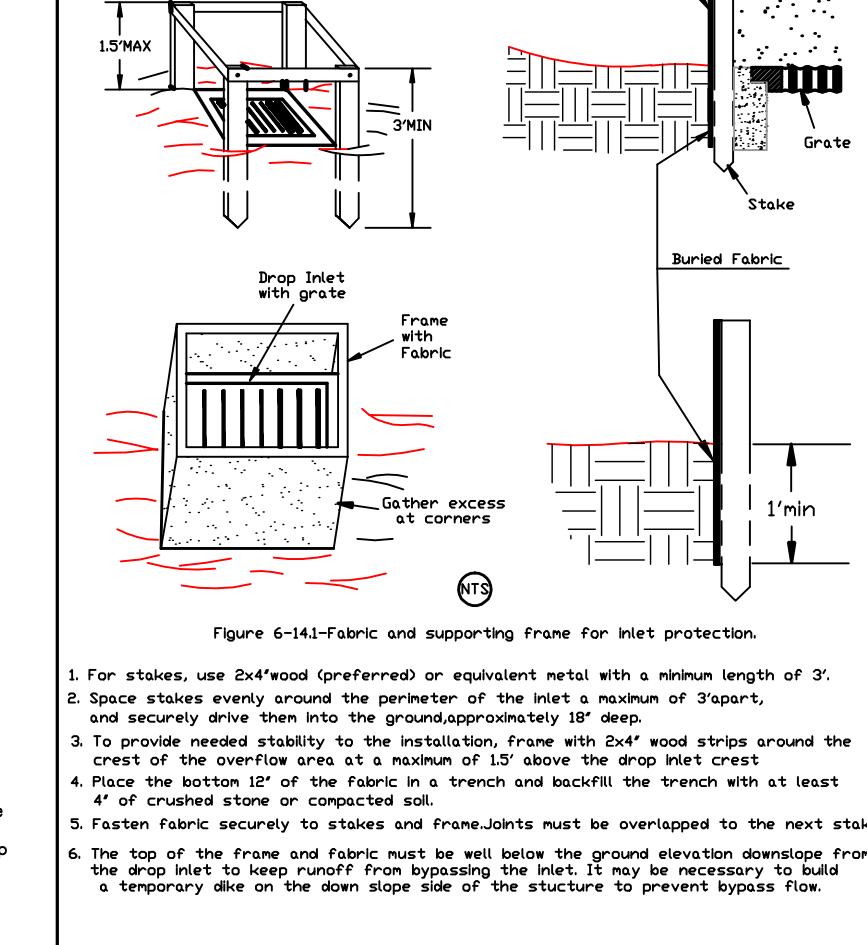
CROSS-SECTION THROUGH EMBANKMENT



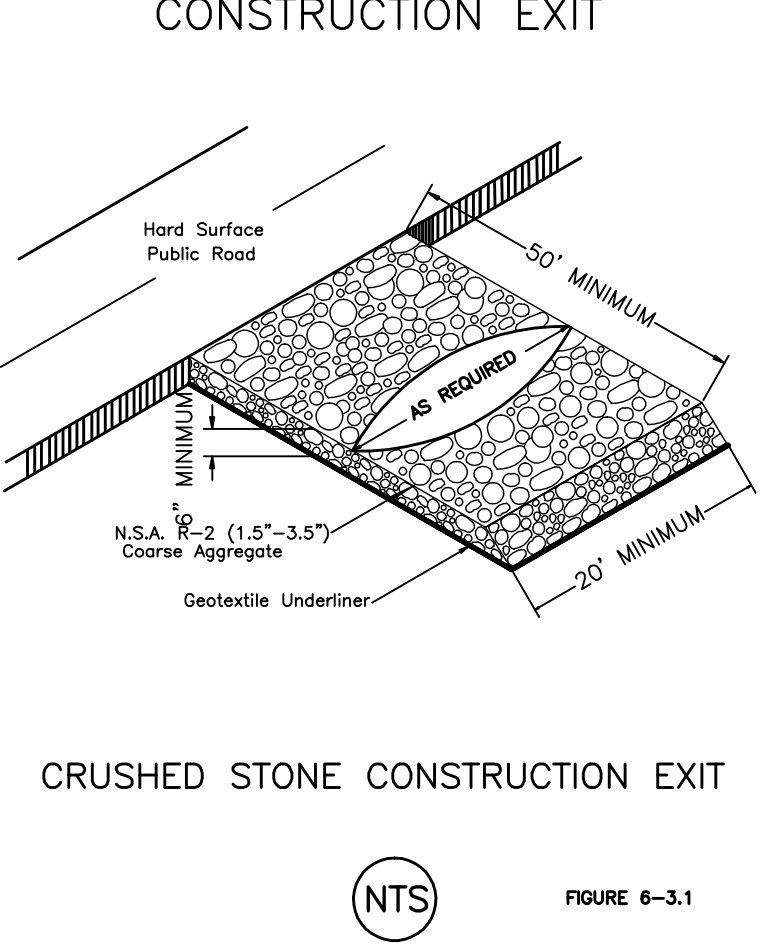
TEMPORARY SEDIMENT POND



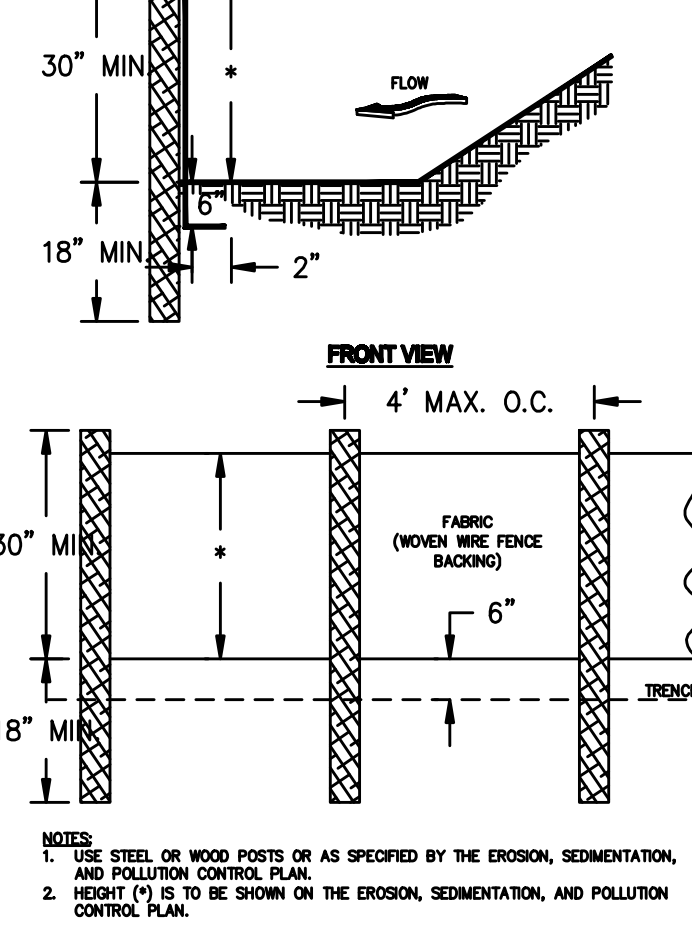
RIPRAP OUTLET PROTECTION



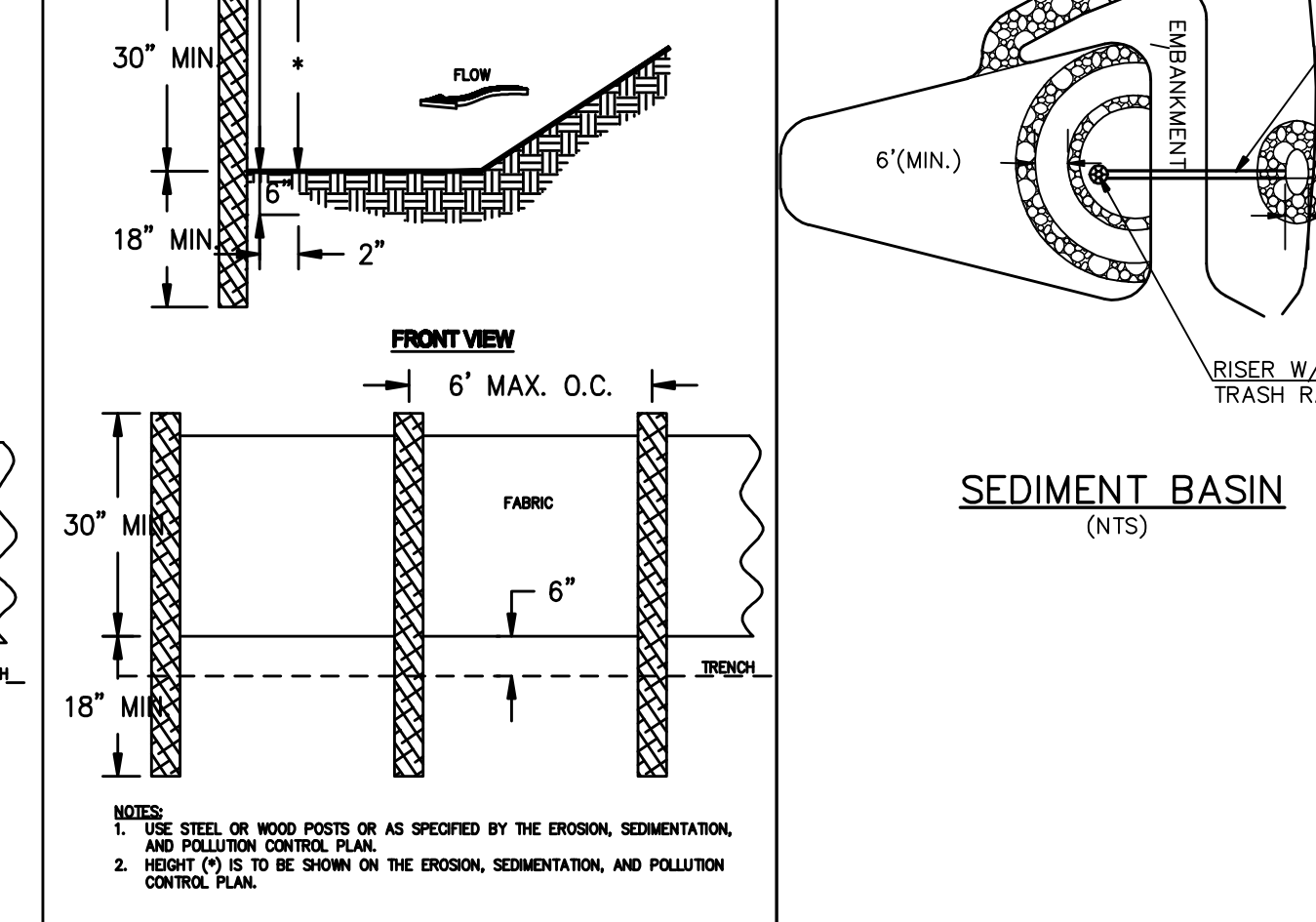
CONSTRUCTION EXIT



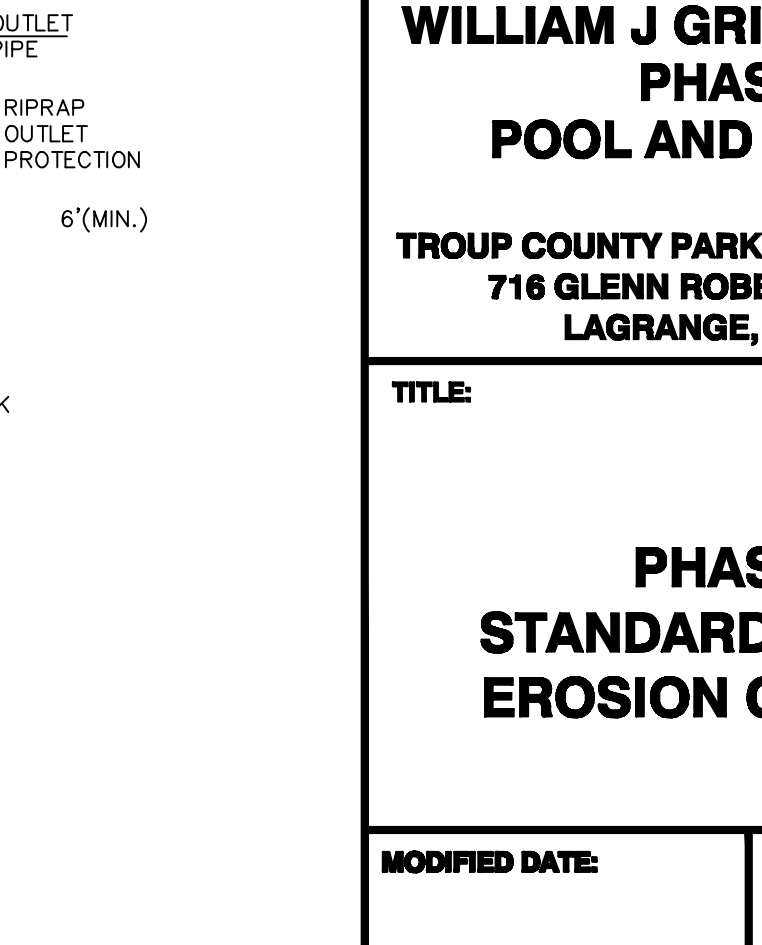
SILT FENCE - TYPE SENSITIVE



SILT FENCE - TYPE NON-SENSITIVE



SEDIMENT BASIN



ARCHITECT'S STAMP
STATE OF GEORGIA
PERSON SIGNATURE
7575
REGISTERED ARCHITECT
SIGNATURE REQUIRED

SMITH DESIGN GROUP, INC.
208 WEST HARALSON STREET
LAGRANGE, GEORGIA 30240
706-882-5511

STOTHARD ENGINEERING, INC.
1008 COLQUITT ST.
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GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. 15360
JAMES STOTHARD

REVISIONS	
DATE	DESCRIPTION

PROJECT:
WILLIAM J GRIGGS CENTER PHASE II POOL AND PAVILION
TROUP COUNTY PARKS AND RECREATION
716 GLENN ROBERTSON DRIVE
LAGRANGE, GEORGIA

TITLE:
PHASE 2 STANDARD DETAILS EROSION CONTROL

MODIFIED DATE:
ISSUED DATE:
FOR BIDDING AND PERMIT
13 JULY 2023

JOB NO:
2312
SHEET:
SD-15

COMPREHENSIVE MONITORING PLAN

The project consists of the construction of a swimming pool and pool house at the existing William Griggs Center on the west side of Glen Robertson Dr. on a 11.772 acre tract...

SPILL PREVENTION PLAN
Petroleum products shall be stored in an adequate and impervious containment area and daily inspections should be made for possible leaks...

The monitoring plan requires that samples be taken at the upstream headwall of the culvert crossing Glenn Robertson Drive. The target turbidity for the basin is 75 NTUs (Drainage Area=15 acres; Site Area=3.1 acres) as defined in Appendix B of Permit No. GAR 100001.

SAMPLING METHODOLOGY

- (1) The primary permittee must sample in accordance with the Plan at least once for each rainfall event described below. For a qualifying event, the permittee shall sample at the beginning of any stormwater discharge to a monitored receiving water and/or from a monitored outfall location within in forty-five (45) minutes or as soon as possible.

SITE INSPECTIONS

- 1. Within one week after initial construction begins, the licensed professional who prepared the Erosion, Sedimentation and Pollution Control Plan (PLAN) shall inspect the installation of Best Management Practices (BMPs) and determine if they have been installed and maintained as designed, and shall notify the permittee of any problems.

RECORD KEEPING AND REPORTING REQUIREMENTS

- 1. The applicable permittees are required to submit the sampling results to the EPD at the address shown in Part II.C. by the fifteenth day of the month following the reporting period. Reporting periods are months during which samples are taken in accordance with this permit.

MAINTENANCE OF BMPs AND CORRECTION OF DEFICIENCIES

All Best Management Practices shall be inspected as required above or more often if construction activities, rainfall events or other circumstances warrant. Installation and maintenance of BMPs shall be in accordance with the approved Erosion, Sediment and Pollution Control Plan and with "The Manual for Erosion and Sediment Control in Georgia", Latest Edition.

August 1, 2023
WILLIAM GRIGGS CENTER, CITY OF LAGRANGE, TROUP COUNTY, GEORGIA
CERTIFICATION

(1) I certify that the permittee's erosion, sedimentation and pollution control plan provides for an appropriate and comprehensive system of best management practices required by the Georgia Water Quality Control Act and the document "Manual for Erosion and Sediment Control in Georgia" published by the State Soil and Water Conservation Commission as of January 1 of the year in which land disturbing activity was permitted.

James S. Stothard
James Stothard, Georgia PE No. 15360
Level II Certified Design Professional, No. 0000029517

August 1, 2023
WILLIAM GRIGGS CENTER, CITY OF LAGRANGE, TROUP COUNTY, GEORGIA
CERTIFICATION

I certify that the permittee's Comprehensive Monitoring Program provides for the monitoring of the receiving waters or the monitoring of storm water outfalls and is expected to meet the monitoring requirements contained in General NPDES Permit No. GAR 100001.

James S. Stothard
James Stothard, Georgia PE No. 15360
Level II Certified Design Professional, No. 0000029517

August 1, 2023
WILLIAM GRIGGS CENTER, CITY OF LAGRANGE, TROUP COUNTY, GEORGIA
CERTIFICATION

I certify that I have consulted Georgia's 2008 305(b)/303(d) List of Damages (Final) and have determined that the construction does not discharge storm water to an impaired stream segment but does discharge storm water within 1 mile upstream and within the same watershed as, Long Cane Creek, a Biota Impaired Stream.

James S. Stothard
James Stothard, Georgia PE No. 15360
Level II Certified Design Professional, No. 0000029517

Table with columns for months (JAN-DEC) and rows for years 2023 and 2024, containing alphanumeric codes (A, B, C, D, E, F, G) indicating monitoring or sampling requirements.

- CONSTRUCTION SCHEDULE
A. CLEARING & GRUBBING
B. SEDIMENT CONTROL MEASURES AND INSTALLATION OF SILT FENCE
C. ROUGH GRADING OF SITE
D. TEMPORARY & PERMANENT VEGETATION OUTSIDE BUILDING AREA

Table with fields for EXISTING LAND USE, PROPOSED LAND USE, PRIMARY PERMITTEE (TROUP COUNTY PARKS AND RECREATION), ADDRESS (1220 LAFAYETTE PARKWAY), CITY & STATE (LAGRANGE, GA 30241), PHONE (706-883-1650), and LOCAL CONTACT RESPONSIBLE FOR 24 HR EROSION & SEDIMENT CONTROL MEASURES (JAY ANDERSON, 706-883-1670).

GENERAL NOTES FOR SOIL EROSION AND SEDIMENT CONTROL

- 1. The area to be disturbed on this project is 1.0 AC
2. Erosion control measures will be maintained at all times, if full implementation of the approved plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source.

FUEL SPILL/CONTAINMENT NOTES
SECONDARY CONTAINMENT UNITS SHALL BE UTILIZED ANYWHERE PRIMARY FUEL CONTAINERS ARE LOCATED. SECONDARY CONTAINMENT UNITS SHALL BE CONSTRUCTED OF MATERIALS THAT ARE CAPABLE OF ADEQUATELY CONTAINING THOSE FUELS STORED WITHIN, PROVIDE 110% OF THE TOTAL VOLUME CAPACITY OF THE LARGEST PRIMARY CONTAINER STORED WITHIN, AND PREVENT THE INGRESS OF RAINWATER INTO THE SECONDARY CONTAINER (WITH A COVER).

- EROSION CONTROL CERTIFICATION
(1) I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH LAND DISTURBING ACTIVITY WAS PERMITTED.

James S. Stothard
JAMES STOTHARD, PE NO. 15360
LEVEL II CERTIFIED DESIGN PROFESSIONAL NO. 0000029517

- 1/ APPLY IN SPRING FOLLOWING SEEDING
2/ APPLY IN SPLIT APPLICATIONS WHEN HIGH RATES ARE USED
3/ APPLY IN THREE SPLIT APPLICATIONS
4/ APPLY WHEN PLANTS ARE PRUNED

PERMANENT GRASSING SPECIFICATIONS

- MARCH 1 TO JUNE 30
BERMUDA, COMMON (HULLED) - 10 LBS/AC
OR
APRIL 1 TO JUNE 30
CENTIPEDE - BLOCK SOD ONLY

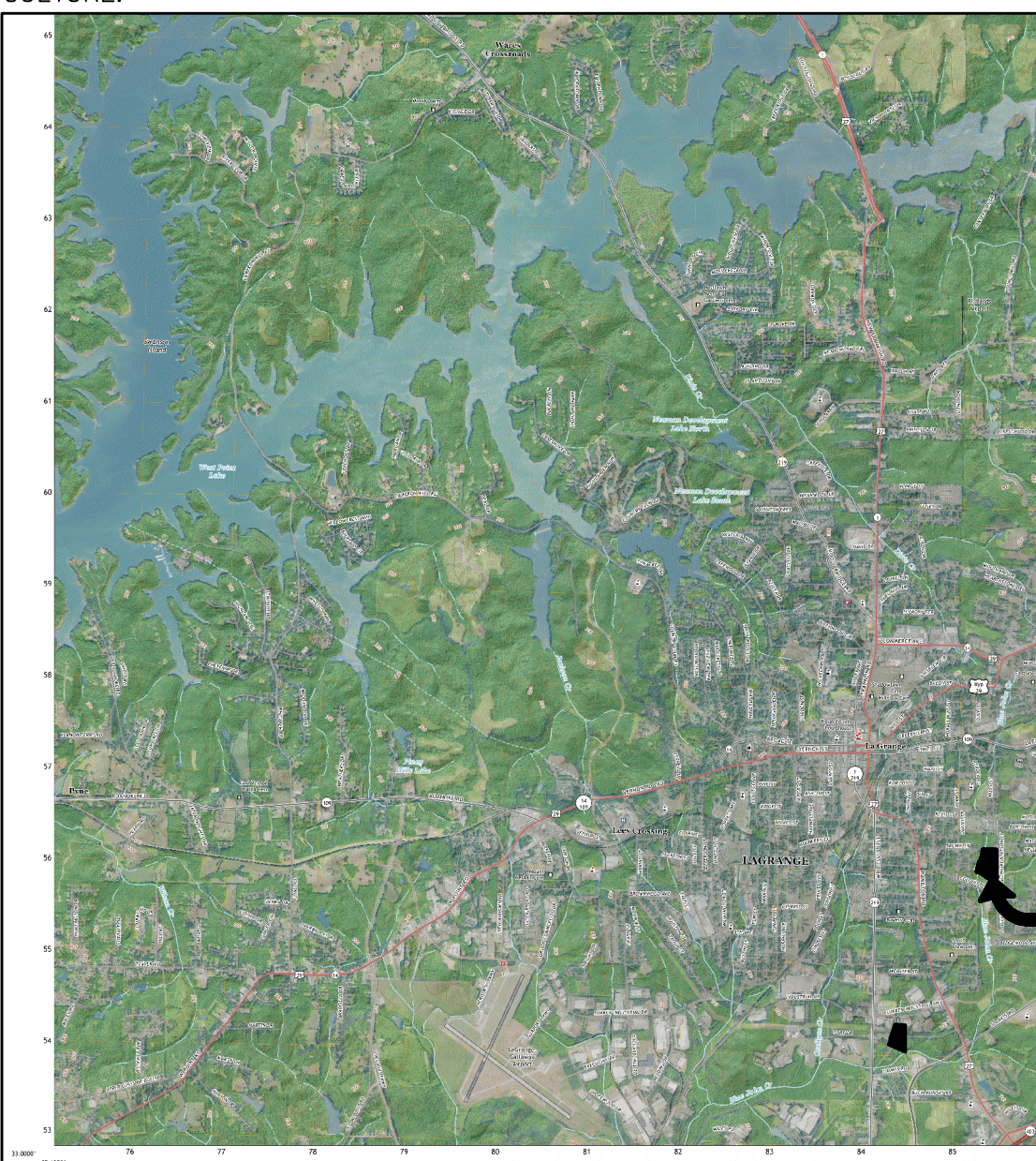
TEMPORARY SEEDING SPECIFICATIONS

- AUGUST 1 TO APRIL 15
RYEGRASS, ANNUAL - 40 LBS/AC
OR
AUGUST 15 TO DECEMBER 30
RYE - 3 BU/AC
OR
APRIL 15 TO AUGUST 31
MILLET, PEARL - 50 LBS/AC

Table with columns: SPECIES, YEAR, ANALYSIS OR EQUIVALENT, RATE, TOP DRESSING RATE. Rows include COOL SEASON GRASSES, COOL SEASON GRASSES AND LEGUMES, PINE SEEDLINGS, SHRUB LEEPEDEZA, TEMP COVER CROP SEEDING, WARM SEASON GRASSES, and WARM SEASON GRASSES AND LEGUMES.

LIME RATES

AGRICULTURAL LIME IS REQUIRED AT THE RATE OF ONE TO TWO TONS PER ACRE UNLESS SOIL TESTS INDICATE OTHERWISE. ALL GRADED AREAS REQUIRE LIME APPLICATION. IF LIME IS APPLIED WITHIN SIX MONTHS OF PLANTING PERMANENT PERENNIAL VEGETATION, ADDITIONAL LIME IS NOT REQUIRED.



SMITH DESIGN GROUP, INC.

206 WEST HARALSON STREET
LAGRANGE, GEORGIA 30240

706-882-5511

STOTHARD ENGINEERING, INC.

1008 COLQUITT ST.
LAGRANGE, GA
30241

PHONE: 706 884-5279

www.stothard-engineering.com

email: stothard@stothard-engineering.com



Table with columns: DATE, DESCRIPTION. Contains a list of revisions to the plan, such as 'Provide BMPs for the remediation of pre-development areas' and 'Description of the measures that will be installed during the construction process to control pollution in storm water that will occur after construction operations have been completed.'

PROJECT: WILLIAM J GRIGGS CENTER PHASE II POOL AND PAVILION

TROUP COUNTY PARKS AND RECREATION
716 GLENN ROBERTSON DRIVE
LAGRANGE, GEORGIA

PHASE 2 EROSION CONTROL MONITORING PLAN

Table with columns: MODIFIED DATE, ISSUED DATE, FOR BIDDING AND PERMIT, JOB NO. (2312), SHEET (SD-16).

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST. Table with columns: Item No., Description, Status (Y/N/NA), and Remarks. Lists 52 items covering various aspects of erosion and sediment control measures.