

River Walk
Franklin, Georgia 30217

River Walk
Franklin, GA
30217

[illegible]




www.gsstj.com

PROJECT NO.

20104

	SHEET NO.
--	-----------

AS-0.0

B. 

: A Professional Corporation
: for the Practice of Architecture

· www.gsstj.com

- Tower Place
- 3340 Peachtree Road, N.E.
- Suite 1800
- Atlanta, Georgia 30303
- 404.522.8805
- 404.521.2118 (F)

PROJECT NO.

20104

SHEET TITLE

Life Safety Plan

SHEET NO.

LS-0.1

HEARD COUNTY AMPHITHEATER

CONSTRUCTION PLANS

LAND LOT 382 – DISTRICT 3

TOTAL AREA = 0.50 AC.

TAX PARCEL # 0039 A 0016

TOTAL DISTURBED AREA = 0.50 AC.

FLOODPLAIN NOTE:

THIS SITE DOES NOT LIE WITHIN A SPECIAL FLOOD HAZARD ZONE.
PER FEMA MAP # 13149C0163B (EFF. MAY 19, 2017).

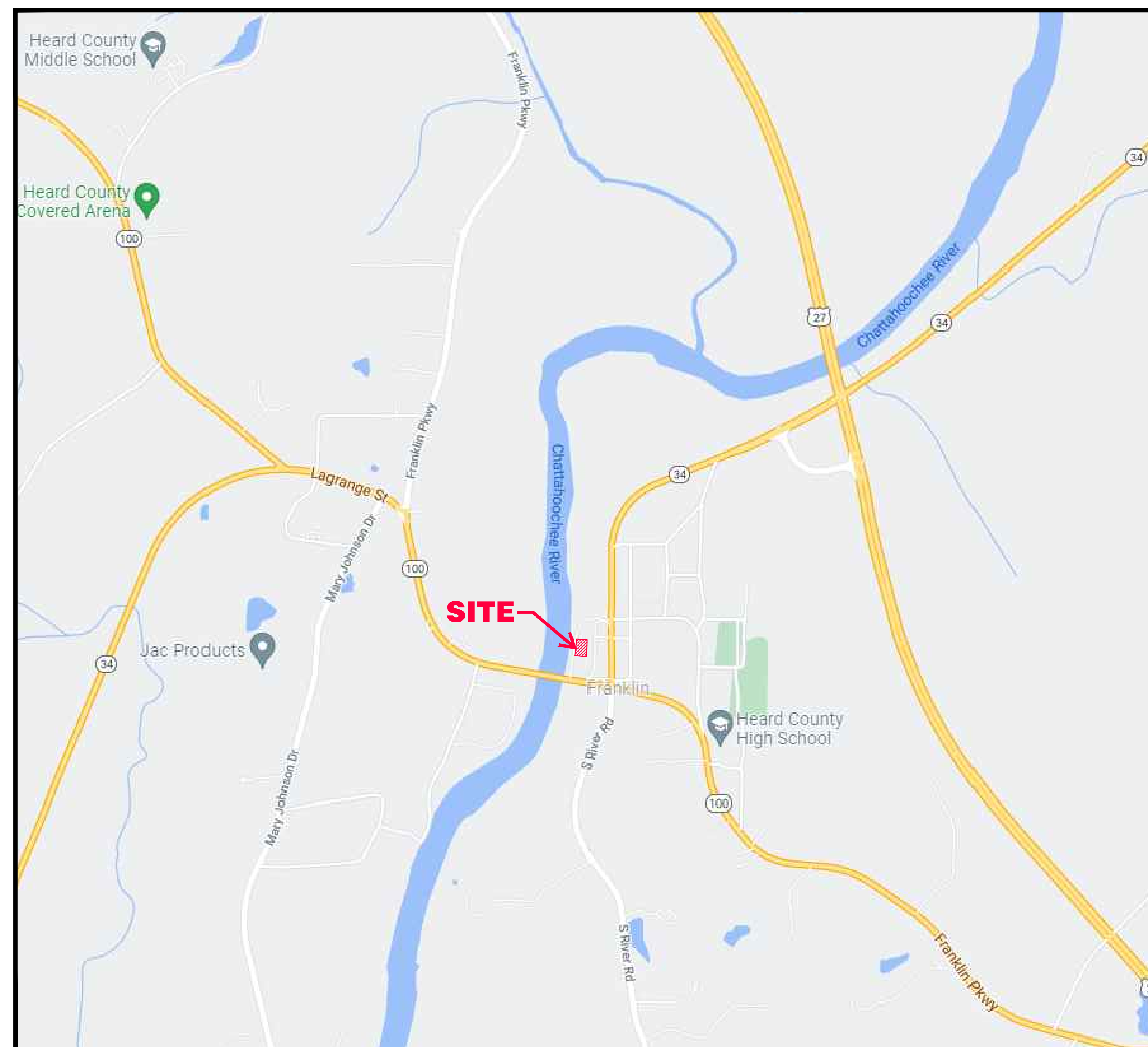
WETLANDS NOTE:

THIS SITE DOES NOT INCLUDE ANY AREAS OF WETLANDS OR JURISDICTIONAL WATERS
AS DEFINED AND REGULATED BY THE U.S. ARMY CORPS OF ENGINEERS.

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

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

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



LOCATION MAP

**GPS LOCATION OF
CONSTRUCTION EXIT:**

**N 33.279322 DEG.
W 85.099787 DEG.**

SHEET INDEX

1	COVER SHEET
2	DEMOLITION PLAN
3	SITE/UTILITY PLAN
4	GRADING/DRAINAGE PLAN
5	PIPE PROFILES/MISCELLANEOUS DETAILS
6	EROSION & SEDIMENT CONTROL PLAN (INITIAL)
7	EROSION & SEDIMENT CONTROL PLAN (INTERMEDIATE/FINAL)
8	EROSION CONTROL DETAILS
9	NPDES PERMIT REQUIREMENTS/DRAINAGE BASIN MAP

EROSION CONTROL PLANS PREPARED BY:

Neal Spradlin
NEAL SPRADLIN (GSWCC #8214)



OWNER/DEVELOPER/PRIMARY PERMITTEE:

The Development Authority
of Heard County

121 South Court Square
Franklin, GA 30217

24-hr Contact Person:

Kathy Knowles
(706) 675-0554
kk@heardgeorgia.org

Neal Spradlin, P.E.
45 Little Road
Sharpsburg, GA 30277
phone/fax: 770.902.9748
mobile: 678.859.0514

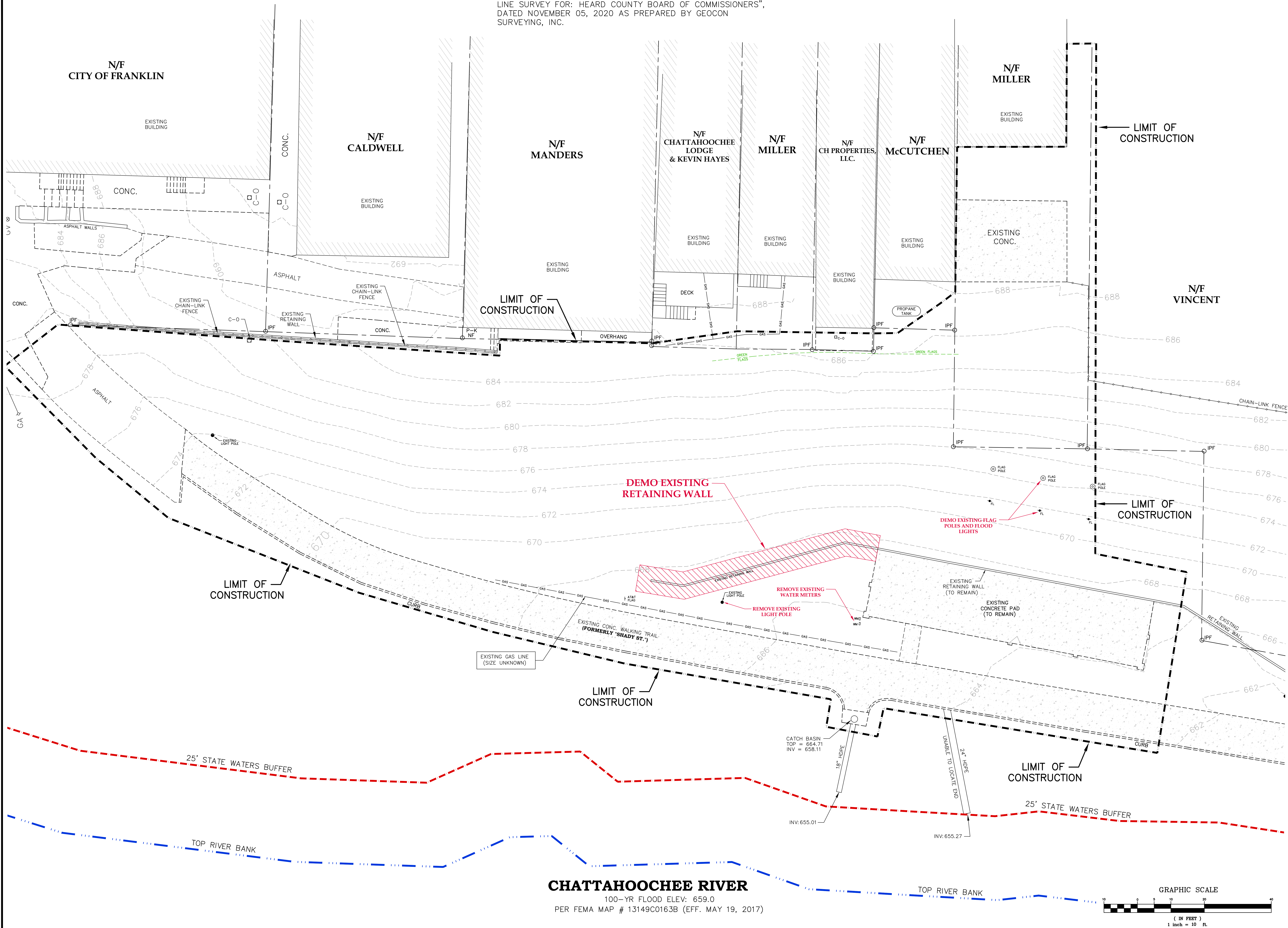
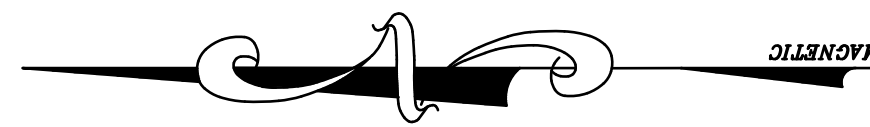


REV.	DATE	DESCRIPTION
1	12/9/21	REVISED GRADING, SHOW GAS LINE RELOCATION, OTHER MISC. COORDINATION WITH ARCHITECTURAL PLAN

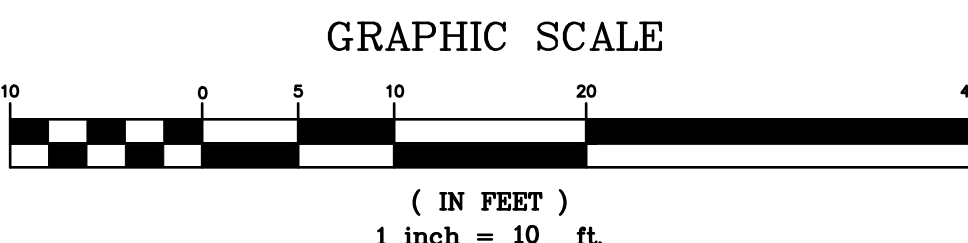
HEARD COUNTY AMPHITHEATER	COVER SHEET	SCALE: NONE
DATE: 9/9/21	DRAWN BY: MWS	

SHEET
1
OF
NINE

NOTE:
PROPERTY LINES AS SHOWN HEREON TAKEN FROM "PROPERTY
LINE SURVEY FOR: HEARD COUNTY BOARD OF COMMISSIONERS",
DATED NOVEMBER 05, 2020 AS PREPARED BY GEOCON
SURVEYING, INC.



CHATTAHOOCHEE RIVER
100-YR FLOOD ELEV: 659.0
PER FEMA MAP # 13149C0163B (EFF. MAY 19, 2017)



Neal Spradlin, P.E.
45 Little Road
Sharpsburg, GA 30277
phone/fax: 770.902.9748
mobile: 678.859.0514

CAPSTONE
ENGINEERING, INC.

CEORCIA
REGISTERED
No. 23386
PROFESSIONAL
ENGINEER
Neal Spradlin

REV.	DATE	DESCRIPTION
1	12/9/21	REVISED GRADING, SHOW GAS LINE RELOCATION, OTHER MISC. COORDINATION WITH ARCHITECTURAL PLAN

HEARD COUNTY AMPHITHEATER

DEMOLITION PLAN

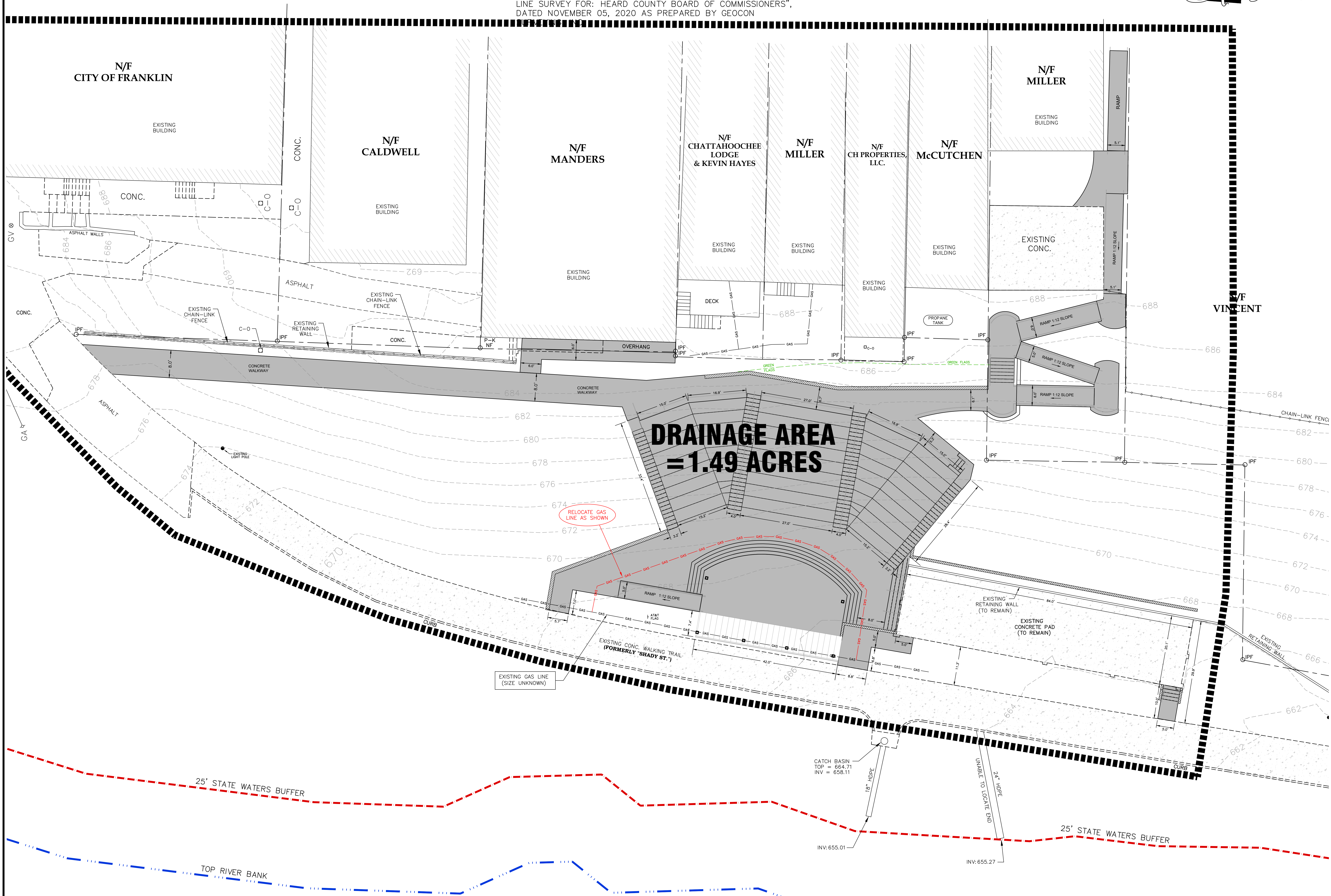
DATE: 9/9/21

DRAWN BY: MWS

SCALE: 1"=10'

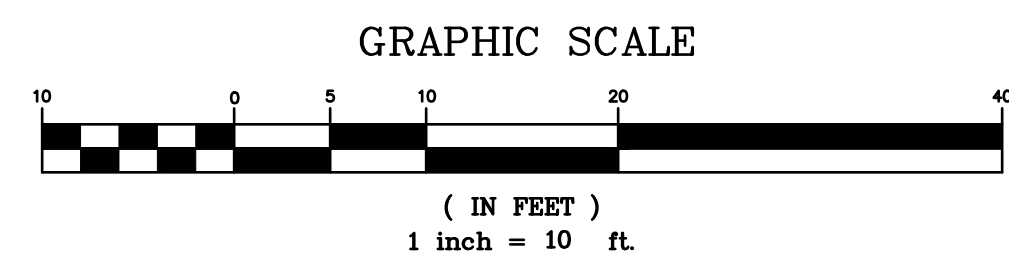
SHEET
2
OF
NINE

NOTE:
PROPERTY LINES AS SHOWN HEREON TAKEN FROM "PROPERTY
LINE SURVEY FOR: HEARD COUNTY BOARD OF COMMISSIONERS",
DATED NOVEMBER 05, 2020 AS PREPARED BY GEOCON

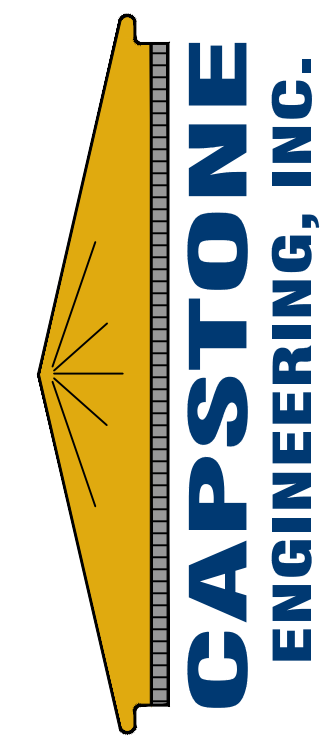


CHATTAHOOCHEE RIVER

100-YR FLOOD ELEV: 659.0
PER FEMA MAP # 13149C0163B (EFF. MAY 19, 2017)



Neal Spradlin, P.E.
45 Little Road
Shapshburg, GA 30277
phone/fax: 770.902.9748
mobile: 678.859.0514



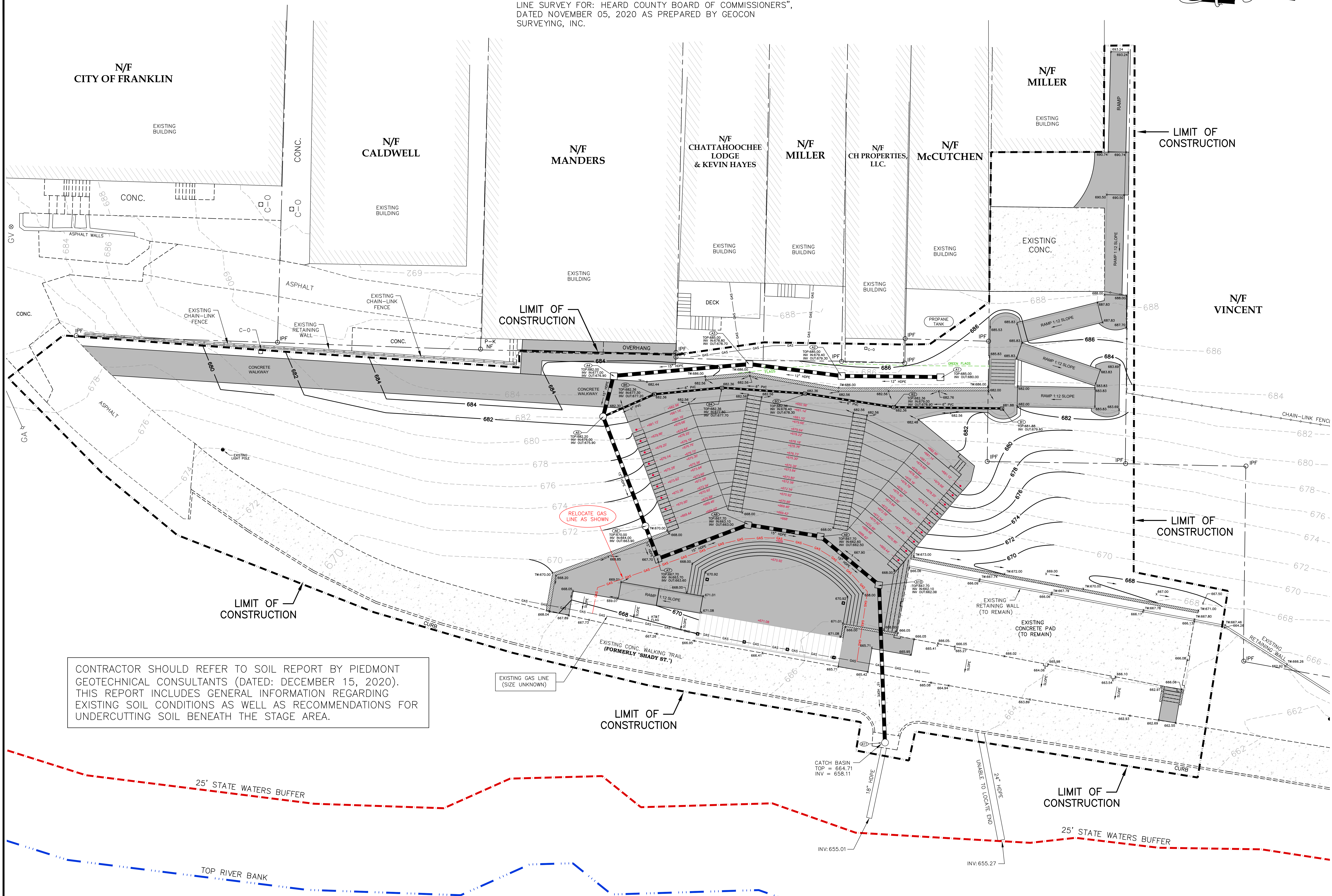
REV. DATE: DESCRIPTION:
1 12/9/21 REVISED GRADING, SHOW GAS LINE RELOCATION, OTHER MISC. COORDINATION WITH ARCHITECTURAL PLAN

HEARD COUNTY AMPHITHEATER
SITE/UTILITY PLAN

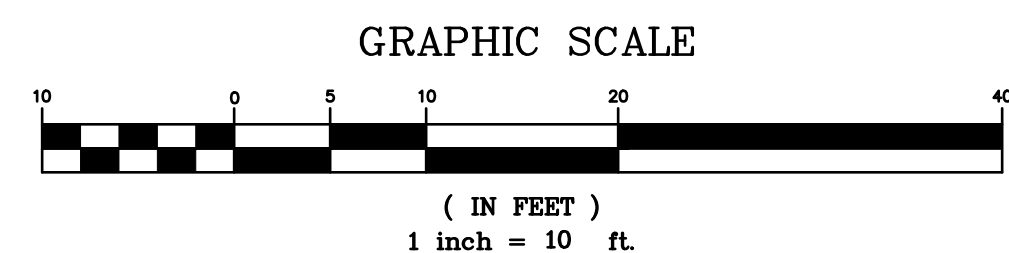
DATE: 9/16/21 DRAWN BY: MWS SCALE: 1"=10'

SHEET
3
OF
NINE

NOTE:
PROPERTY LINES AS SHOWN HEREON TAKEN FROM "PROPERTY LINE SURVEY FOR: HEARD COUNTY BOARD OF COMMISSIONERS", DATED NOVEMBER 05, 2020 AS PREPARED BY GEOCON SURVEYING, INC.



CHATTAHOOCHEE RIVER
100-YR FLOOD ELEV: 659.0
PER FEMA MAP # 13149C0163B (EFF. MAY 19, 2017)



Neal Spradlin, P.E.
45 Little Road
Shirley, GA 30277
phone/fax: 770.902.9748
mobile: 678.859.0514

CAPSTONE
ENGINEERING, INC.

REV. DATE: DESCRIPTION:

1	12/9/21	REVISED GRADING, SHOW GAS LINE RELOCATION, OTHER MISC. COORDINATION WITH ARCHITECTURAL PLAN
---	---------	---

HEARD COUNTY AMPHITHEATER

GRADING/DRAINAGE PLAN

DATE: 9/9/21

DRAWN BY: MWS

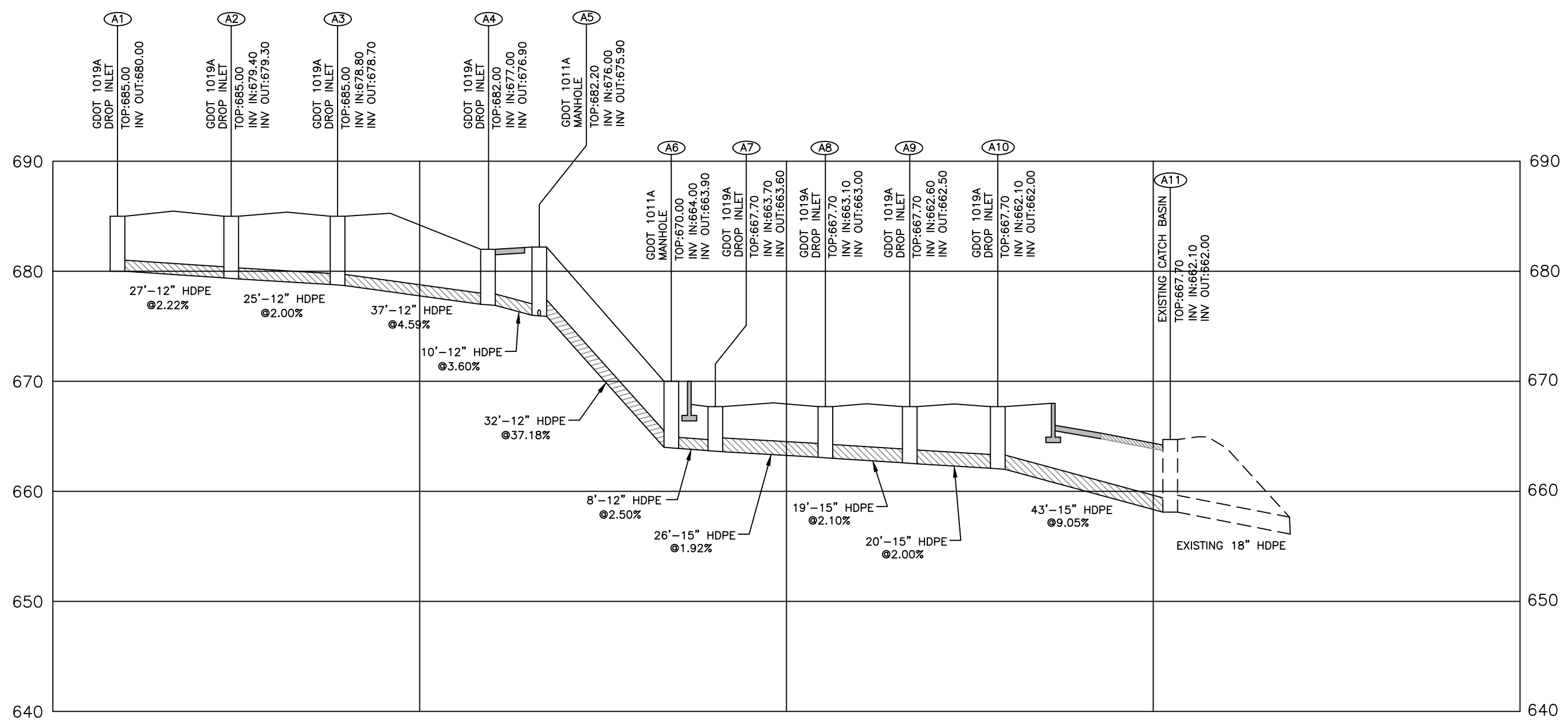
SCALE: 1"=10'

SHEET

4

OF

NINE



STORM DRAIN PROFILES

SCALE: 1"=30' HORIZ.
1"=10' VERT.

PIPE DESIGN DATA:

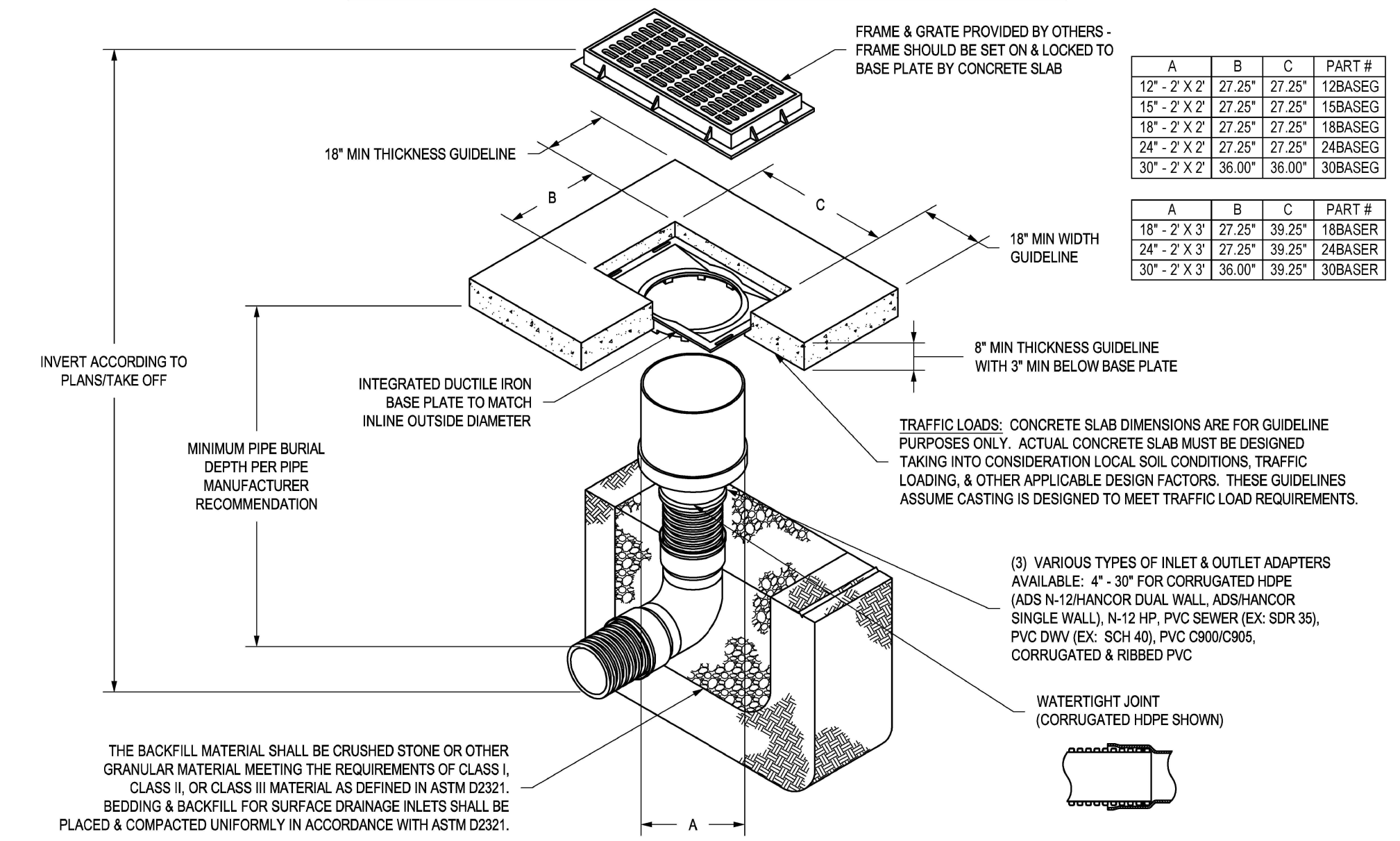
STRUCTURE NO.	PIPE SIZE	LENGTH/ SLOPE	DRAINAGE AREA	RUNOFF COEFFICIENT	O(50)	V(50)
A1-DROP INLET	12" HDPE	27'@2.22%	0.15 AC.	0.88	1.3 CFS	4.3 FPS
A2-DROP INLET	12" HDPE	25'@2.00%	0.07 AC.	0.91	2.0 CFS	5.5 FPS
A3-DROP INLET	12" HDPE	37'@4.59%	0.05 AC.	0.88	2.4 CFS	6.8 FPS
A4-DROP INLET	12" HDPE	10'@3.60%	0.18 AC.	0.90	4.0 CFS	7.1 FPS
A5-MANHOLE	12" HDPE	32'@3.18%	---	---	4.3 CFS	16.0 FPS
A6-MANHOLE	12" HDPE	8'@2.50%	---	---	4.3 CFS	6.5 FPS
A7-DROP INLET	15" HDPE	26'@1.92%	0.04 AC.	0.74	4.6 CFS	5.7 FPS
A8-DROP INLET	15" HDPE	19'@2.10%	0.04 AC.	0.98	5.0 CFS	5.9 FPS
A9-DROP INLET	15" HDPE	20'@2.00%	0.04 AC.	0.98	5.4 CFS	6.1 FPS
A10-DROP INLET	15" HDPE	43'@9.05%	0.02 AC.	0.98	5.6 CFS	9.5 FPS
A11-CATCH BASIN						

HDPE PIPE SPECIFICATIONS:

HDPE PIPE SHALL BE ADS N-12 OR EQUIVALENT DUAL WALL PIPE WITH A CORRUGATED EXTERIOR SURFACE AND SMOOTH INTERIOR SURFACE. HDPE PIPE SHALL SATISFY AASHTO M294 STANDARD SPECIFICATIONS. PIPE SHALL JOINED USING A BELL & SPIGOT SOIL TIGHT JOINT MEETING AASHTO M294.

MANNINGS "n" VALUE FOR DESIGN IS 0.012.

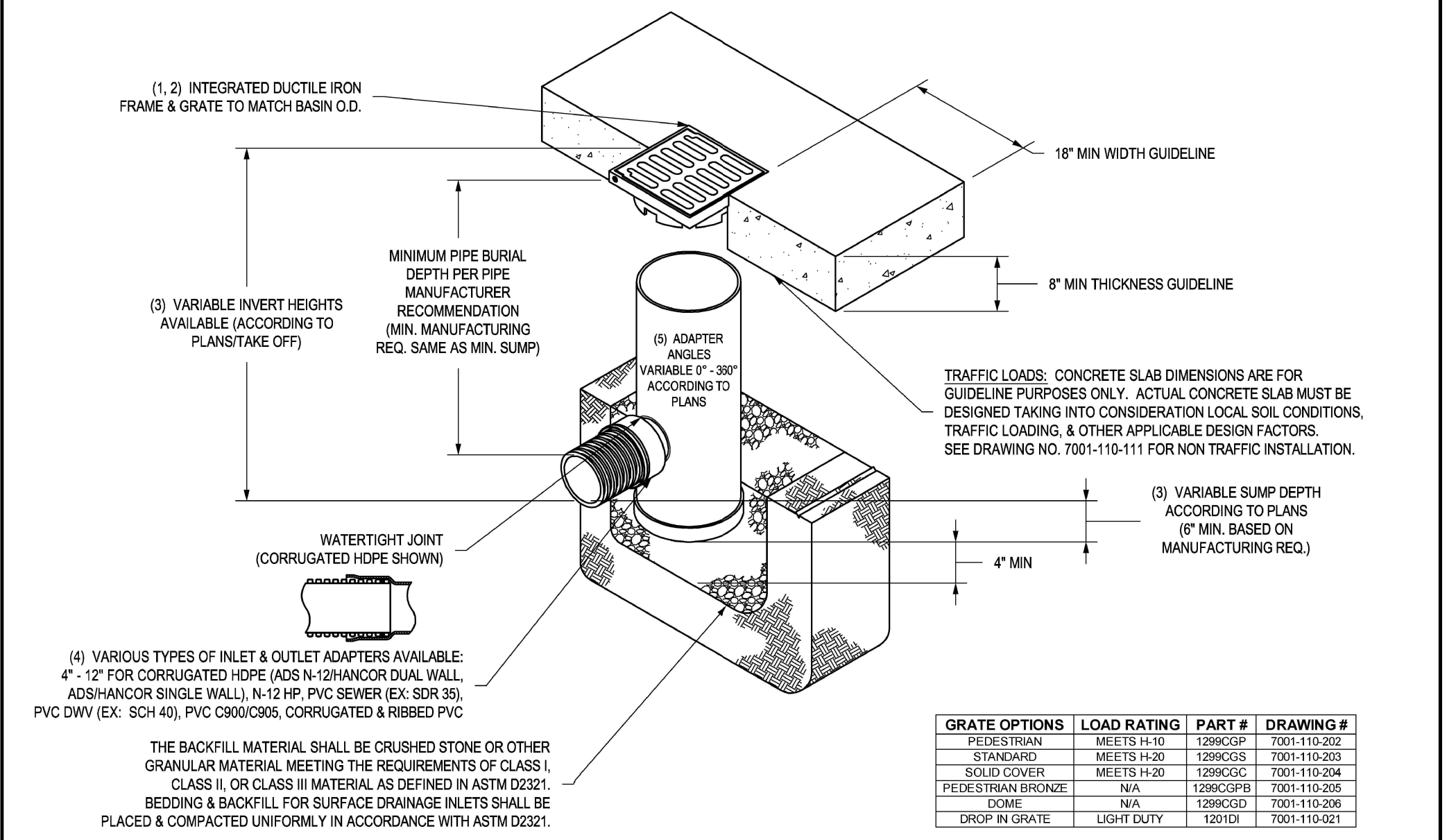
NYLOPLAST INLINE DRAIN WITH DUCTILE IRON BASE PLATE



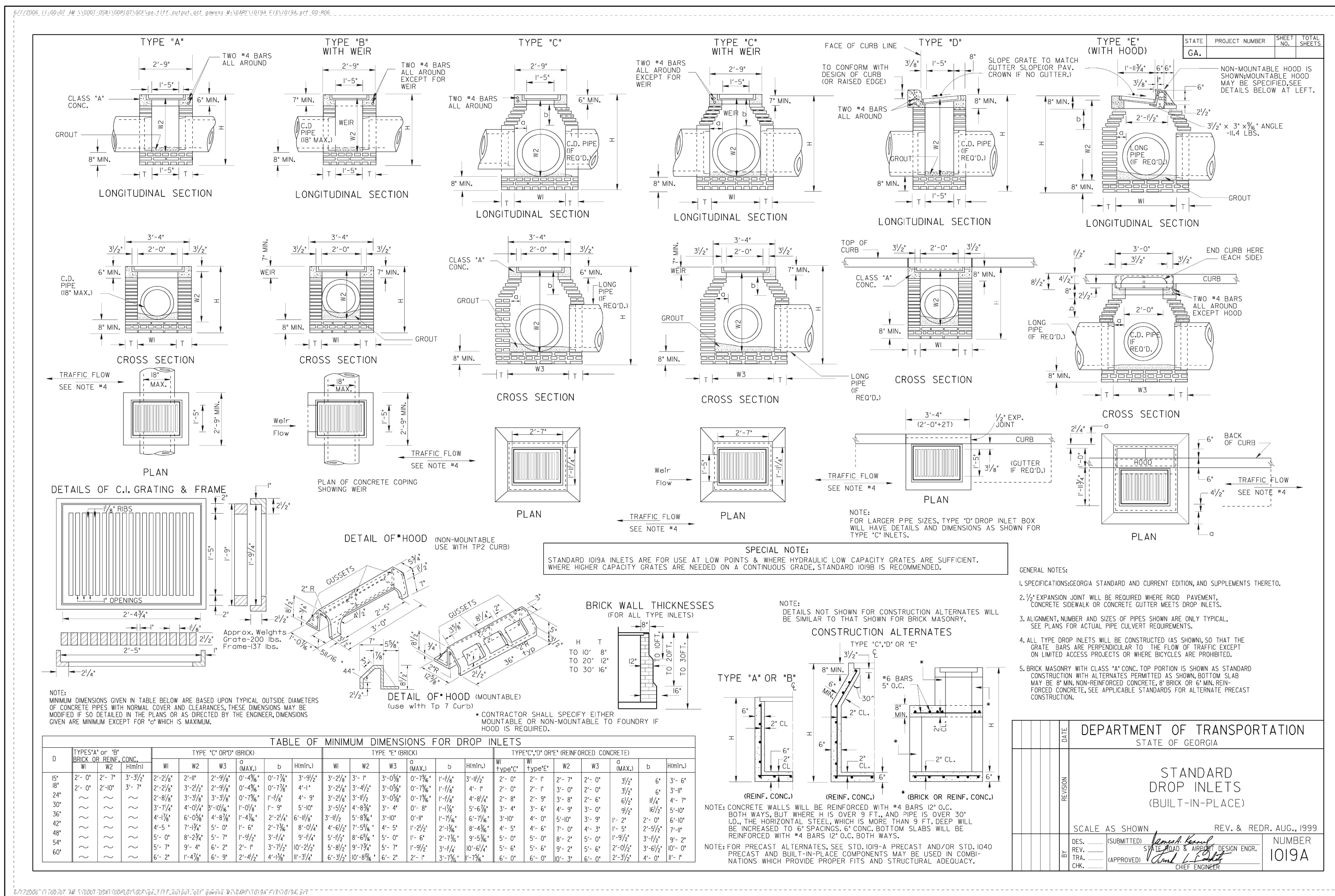
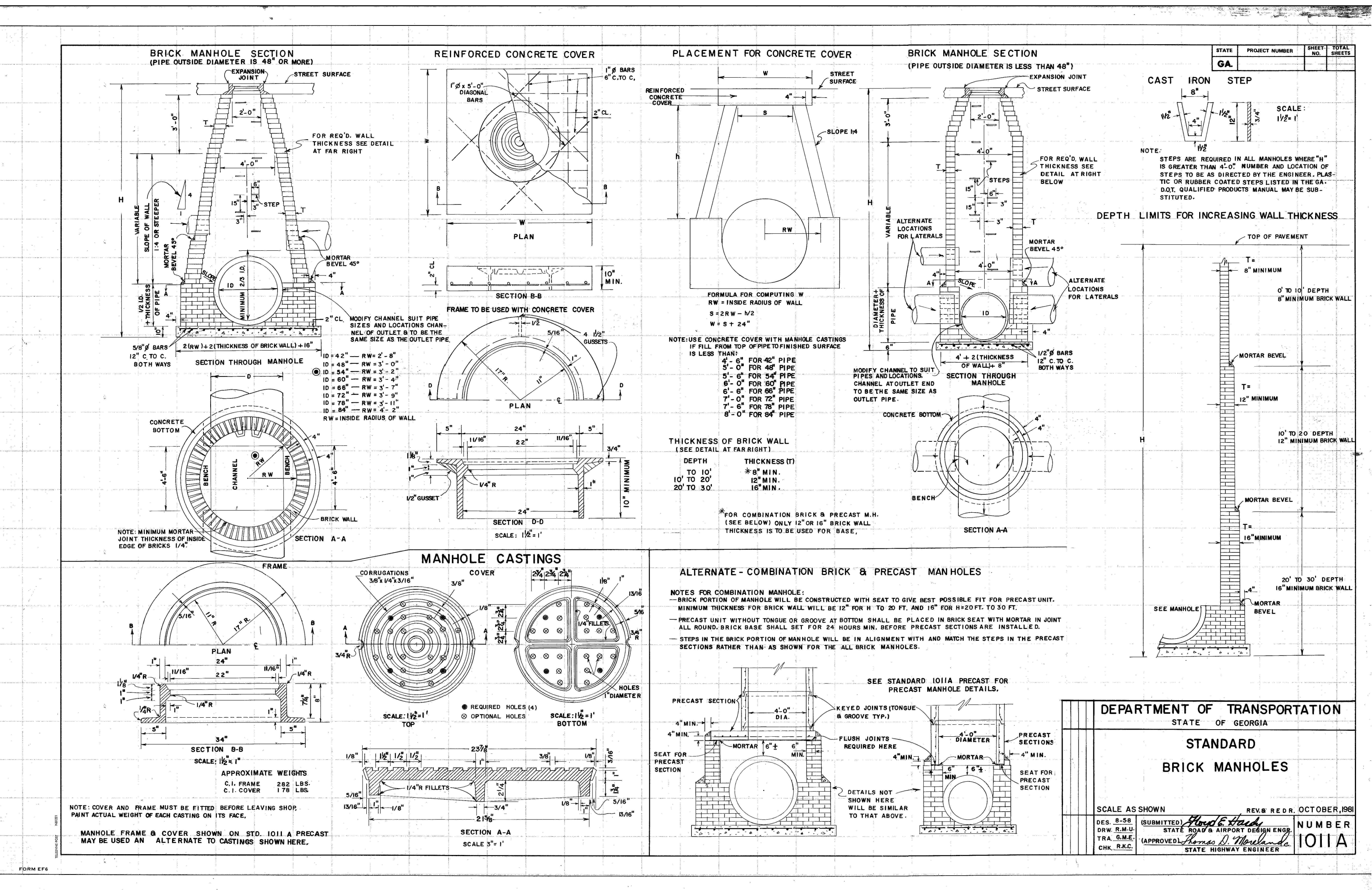
1. BASE PLATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-60-6.	THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN.	REPRODUCED BY THE PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST.
2. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D2271 FOR CORRUGATED HDPE (ADS N-12) AND/OR DUAL WALL N-12 HDPE & PVC SEWER (EX. SOR 35).	DATE: 03-16-16	PROJECT NO. NAME
3. "W" & "L" REFERENCE THE DIMENSIONS OF THE UPPER FLANGE OF THE BASE PLATE.	DWG. SIZE: A	SCALE: 1/4" = 1'-0"
	SHEET: 1 OF 1	DWG. NO.: 7001-110-002
		REV: D

USE NYLOPLAST INLETS WITH 12"x12" CAST IRON GRATES FOR THE 6" PVC DRAIN LINE AT TOP OF AMPHITHEATER SEATING. (OR EQUIVALENT AS APPROVED BY THE ENGINEER)

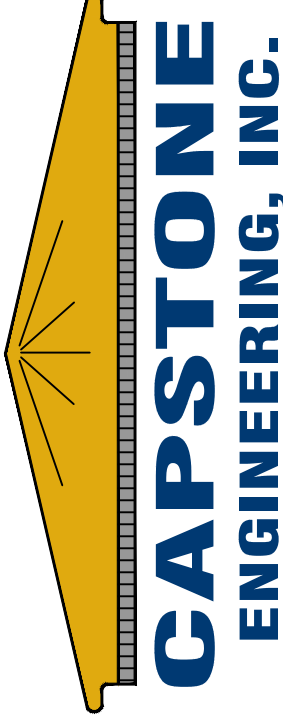
NYLOPLAST 12" DRAIN BASIN: 2812AG _ _ X



1. GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-60-6.	THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN.	REPRODUCED BY THE PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST.
2. FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-60-6.	DATE: 03-28-06	PROJECT NO. NAME
3. DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS COVERED BY DUE TO SHIPPING RESTRICTIONS.	REVISOR: BY NMM	DATE: 03-11-16
4. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D2271 FOR CORRUGATED HDPE (ADS N-12) AND/OR DUAL WALL N-12 HDPE & PVC SEWER (EX. SOR 35).	DWG. SIZE: A	SCALE: 1/4" = 1'-0"
5. ADAPTERS CAN BE MOUNTED ON ANY ANGLE UP TO 30°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-002.	SHEET: 1 OF 1	DWG. NO.: 7001-110-189
		REV: E



Neal Spradlin, P.E.
45 Little Road
Shapshburg, GA 30277
phone/fax: 770.902.9748
mobile: 678.859.0514

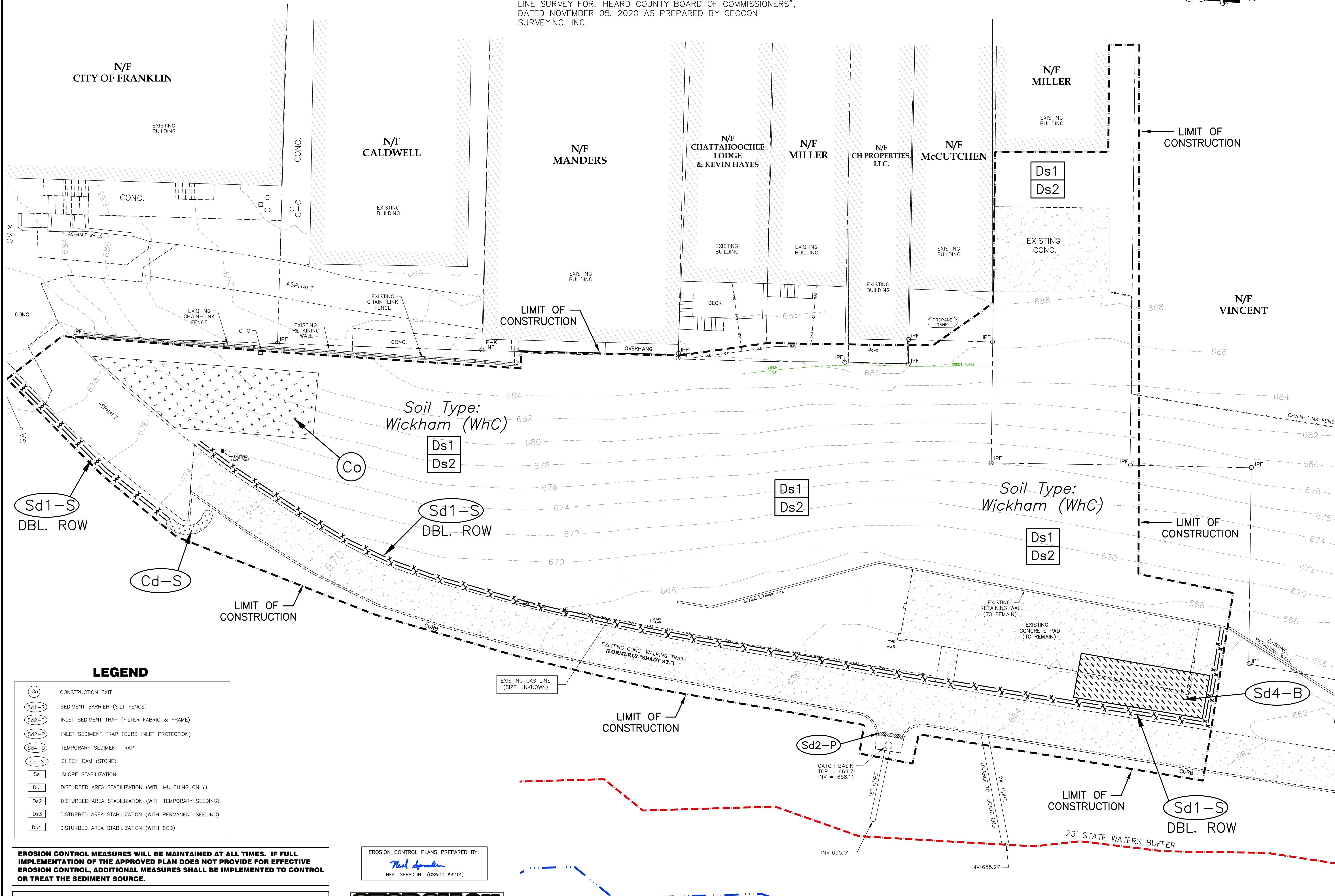


REVISIONS
REV. DATE: 12/9/21
DESCRIPTION: REVISED GRADING, SHOW GAS LINE RELOCATION, OTHER MISCELLANEOUS COORDINATION WITH ARCHITECTURAL PLAN

HEARD COUNTY AMPHITHEATER
PIPE PROFILES/DETAILS
DRAWN BY: MWS
SCALE: AS SHOWN
DATE: 9/9/21

SHEET
5
OF
SEVEN

NOTE:
PROPERTY LINES AS SHOWN HEREON TAKEN FROM "PROPERTY LINE SURVEY FOR: HEARD COUNTY BOARD OF COMMISSIONERS", DATED NOVEMBER 05, 2020 AS PREPARED BY GEOCON SURVEYING, INC.



LEGEND

- (Co) CONSTRUCTION EXIT
- (Sd1-S) SEDIMENT BARRIER (SILT FENCE)
- (Sd2-F) INLET SEDIMENT TRAP (FILTER FABRIC & FRAME)
- (Sd2-P) INLET SEDIMENT TRAP (CURB INLET PROTECTION)
- (Sd4-B) TEMPORARY SEDIMENT TRAP
- (Cd-S) CHECK DAM (STONE)
- (Sa) SLOPE STABILIZATION
- (Ds1) DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)
- (Ds2) DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)
- (Ds3) DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING)
- (Ds4) DISTURBED AREA STABILIZATION (WITH SOD)

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

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

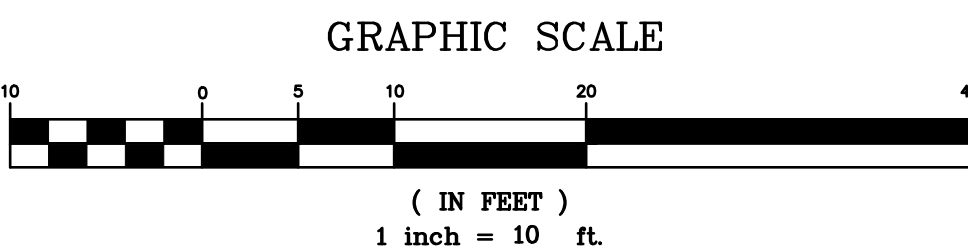
ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY GRASS.

EROSION CONTROL PLANS PREPARED BY:
Neal Spradlin
NEAL SPRADLIN (GSWCC #8214)



CHATTAHOOCHEE RIVER

100-YR FLOOD ELEV: 659.0
PER FEMA MAP # 13149C0163B (EFF. MAY 19, 2017)



Neal Spradlin, P.E.
45 Little Road
Shirley, GA 30277
phone/fax: 770.902.9748
mobile: 678.859.0514

CAPSTONE
ENGINEERING, INC.

REV. DATE: DESCRIPTION:

1	12/9/21	REVISED GRADING, SHOW GAS LINE RELOCATION, OTHER MSG. COORDINATION WITH ARCHITECTURAL PLAN
---	---------	--

HEARD COUNTY AMPHITHEATER

EROSION & SEDIMENT CONTROL PLAN (INITIAL)

DATE: 9/9/21

DRAWN BY: MWS

SCALE: 1"=10'

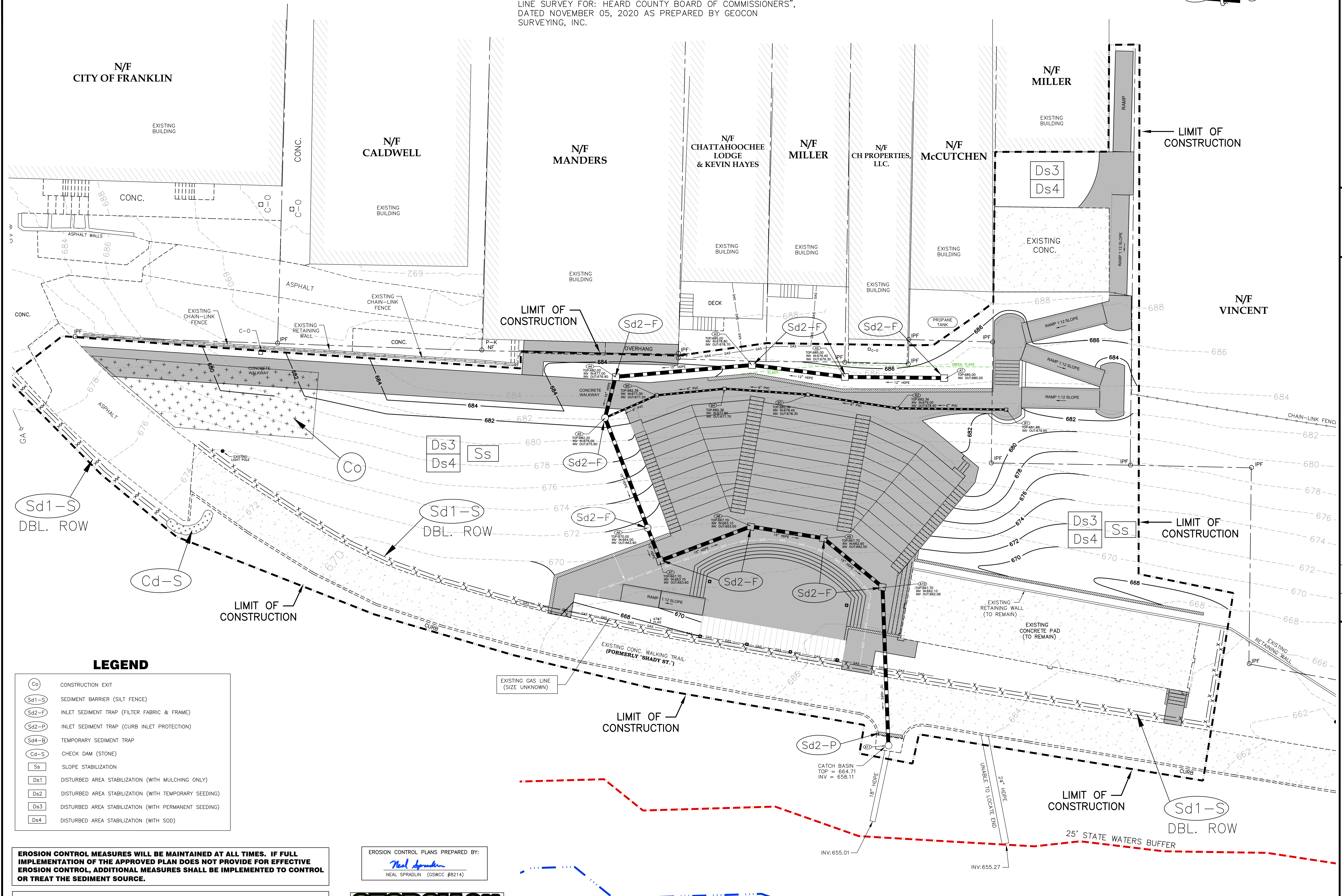
SHEET

6

OF

NINE

NOTE:
PROPERTY LINES AS SHOWN HEREON TAKEN FROM "PROPERTY LINE SURVEY FOR: HEARD COUNTY BOARD OF COMMISSIONERS", DATED NOVEMBER 05, 2020 AS PREPARED BY GEOCON SURVEYING, INC.



LEGEND

- (Co) CONSTRUCTION EXIT
- (Sd1-S) SEDIMENT BARRIER (SILT FENCE)
- (Sd2-F) INLET SEDIMENT TRAP (FILTER FABRIC & FRAME)
- (Sd2-P) INLET SEDIMENT TRAP (CURB INLET PROTECTION)
- (Sd4-B) TEMPORARY SEDIMENT TRAP
- (Cd-S) CHECK DAM (STONE)
- (Ss) SLOPE STABILIZATION
- (Ds1) DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)
- (Ds2) DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)
- (Ds3) DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING)
- (Ds4) DISTURBED AREA STABILIZATION (WITH SOD)

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

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

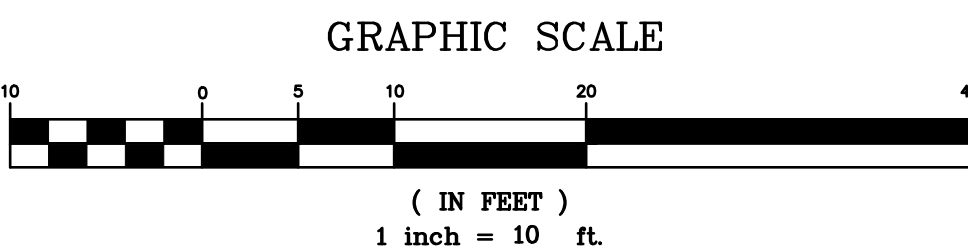
ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY GRASS.

EROSION CONTROL PLANS PREPARED BY:
Neal Spradlin
NEAL SPRADLIN (GSWCC #8214)



CHATTAHOOCHEE RIVER

100-YR FLOOD ELEV: 659.0
PER FEMA MAP # 13149C0163B (EFF. MAY 19, 2017)



Neal Spradlin, P.E.
45 Little Road
Sharpsburg, GA 30277
phone/fax: 770.902.9748
mobile: 678.859.0514

CAPSTONE
ENGINEERING, INC.

GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. 23386
Neal Spradlin

HEARD COUNTY AMPHITHEATER
EROSION & SEDIMENT CONTROL PLAN (INTERMEDIATE/FINAL)
DATE: 9/8/21
DRAWN BY: MWS
SCALE: 1"=10'

SHEET
7
OF
NINE

Ds1 – DISTURBED AREA STABILIZATION
(WITH MULCH ONLY)

1. LOOSEN COMPACTED SOIL TO A MINIMUM DEPTH OF 3".
2. DRY STRAW OR HAY SHALL BE APPLIED AT A DEPTH OF 2"-4" PROVIDING COMPLETE SOIL COVERAGE.

Ds2 – DISTURBED AREA STABILIZATION
(WITH TEMPORARY SEEDINGS)

SPECIES	SEEDING RATE (LBS. PURE LIVE SEED)	PLANTING DATES
RYEGRASS (ANNUAL)	40 LBS/ACRE	AUGUST – APRIL
MILLET, PEARL	50 LBS/ACRE	APRIL – AUGUST
RYE	168 LBS/ACRE	AUGUST – DECEMBER

- NOTES:
1. OTHER SPECIES MAY BE USED AS RECOMMENDED BY THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA"
 2. LIME AND FERTILIZATION ARE GENERALLY NOT REQUIRED EXCEPT WHEN DIRECTED BY THE ENGINEER.
 3. MULCHING SHALL BE REQUIRED AS DIRECTED BY THE ENGINEER USING DRY STRAW OR HAY AT A RATE OF 2.5 TONS/ACRE.

Ds3 – DISTURBED AREA STABILIZATION
(WITH PERMANENT VEGETATION)

SPECIES	SEEDING RATE (LBS. PURE LIVE SEED)	PLANTING DATES
BERMUDA, COMMON (HULLED)	6-10 LBS/ACRE	MARCH – JUNE
BERMUDA, COMMON (UN-HULLED)	6-10 LBS/ACRE	OCTOBER – FEBRUARY
FESCUE, TALL	30 – 50 LBS/ACRE	AUGUST – OCTOBER MARCH – APRIL
LESPEDeza	60 – 75 LBS/ACRE	JANUARY – DECEMBER

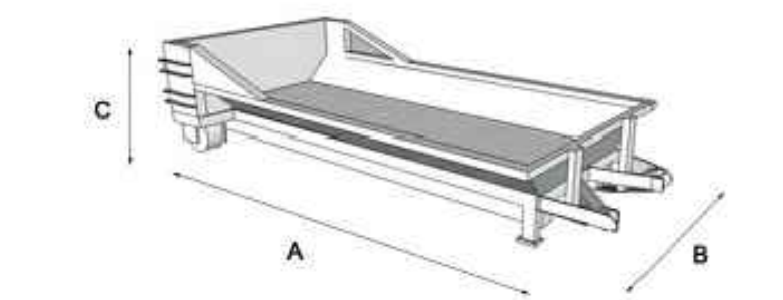
- NOTES:
1. OTHER SPECIES MAY BE USED AS RECOMMENDED BY THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA"
 2. MULCHING, LIME AND FERTILIZATION ARE REQUIRED. CONVENTIONAL PLANTING SHALL UTILIZE RECOMMENDED RATES DESCRIBED IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" LIME SHALL BE APPLIED AS DIRECTED BY SOIL SCIENTIST OR AT THE RATE OF 1-2 TONS PER ACRE. MULCH USING STRAW OR HAY AT A RATE OF 2.5 TONS/ACRE.
 3. HYDRAULIC SEEDING MIXTURES SHALL CONSIST OF APPROPRIATE AMOUNTS OF SEED, MULCH AND FERTILIZER AS DIRECTED BY THE ENGINEER.
 4. SPECIES MAY BE MIXED TO OBTAIN OPTIMUM RESULTS.

Ds4 – DISTURBED AREA STABILIZATION
(WITH SOD)

1. LOOSEN COMPACTED SOIL TO A MINIMUM DEPTH OF 3".
2. MIX FERTILIZER INTO SOIL SURFACE. USE 10-10-10 TO AT 1000 LB/ACRE.
3. INSTALL BERMUDAGRASS SOD WITH TIGHT JOINTS AND IN STRAIGHT LINES. DO NOT OVERLAP JOINTS OR STRETCH SOD.

FERTILIZER RATES FOR PERMANENT VEGETATION
AND/OR TEMPORARY VEGETATION (F REQUIRED)

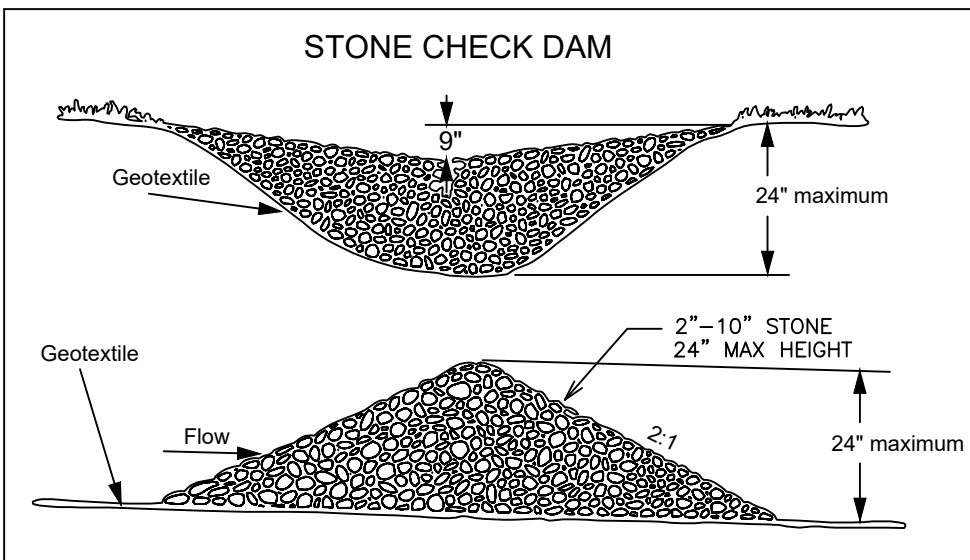
TYPE OF SPECIES	PLANTING YEAR	FERTILIZER (N-P-K)	RATE (LBS/ACRE)	N TOP DRESSING RATE (LBS/ACRE)
COOL SEASON GRASSES	FIRST	6-12-12	1500	50-100
	SECOND	6-12-12	1000	30
	MAINTENANCE	10-10-10	400	30
WARM SEASON GRASSES	FIRST	6-12-12	1500	50-100
	SECOND	6-12-12	800	50-100
	MAINTENANCE	10-10-10	400	30



CONCRETE WASHOUT CONTAINER

*Container	A	B	C	Overall
Size	Length	Width	Inside Height	Height
3-4 CY	16'	8'	12"	22"

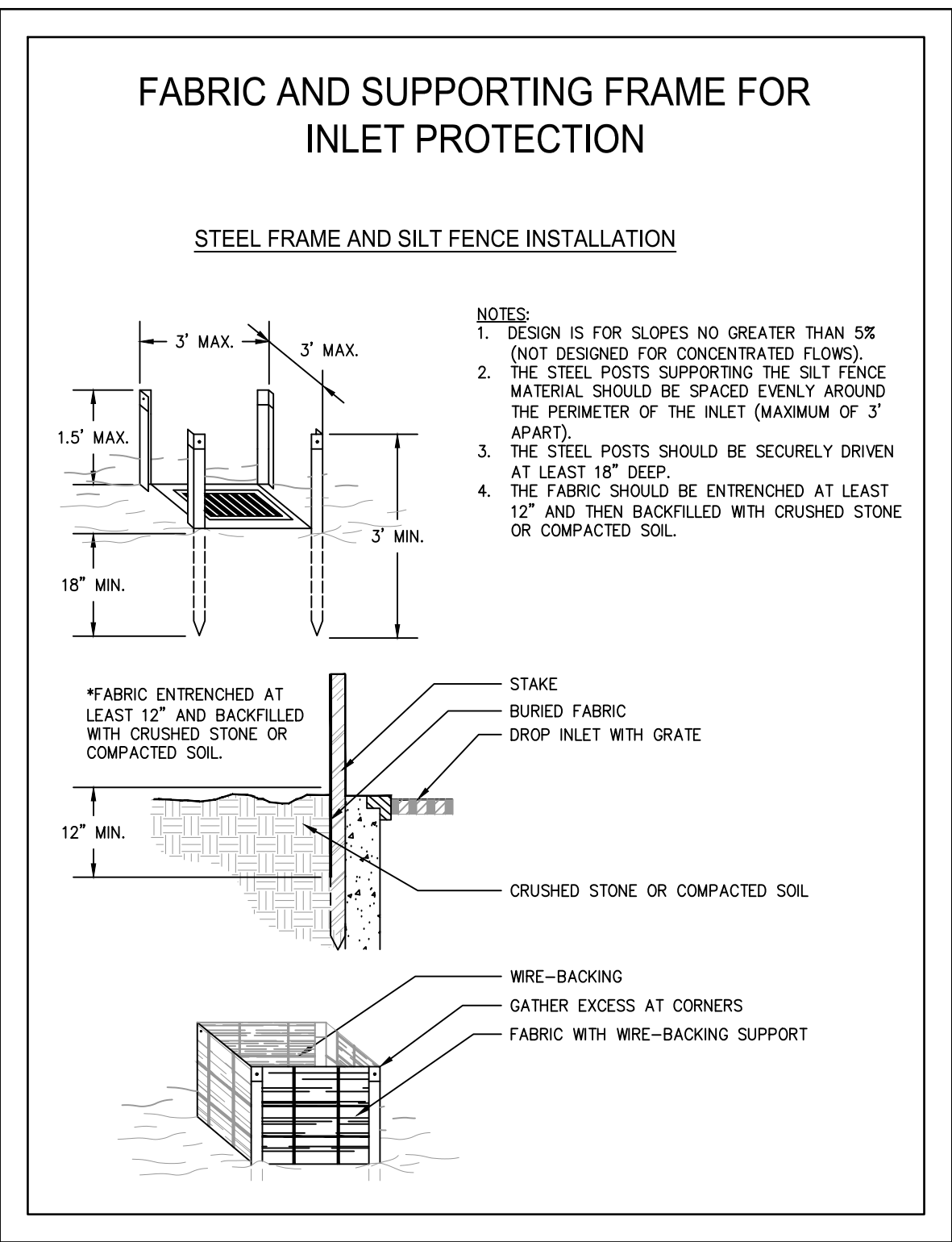
*Measurements are approximations



TWO OR MORE CHECK DAMS IN A SERIES SHALL BE USED FOR DRAINAGE AREAS GREATER THAN ONE (1) ACRE. MAXIMUM SPACING BETWEEN DAMS SHOULD BE SUCH THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM DAM.

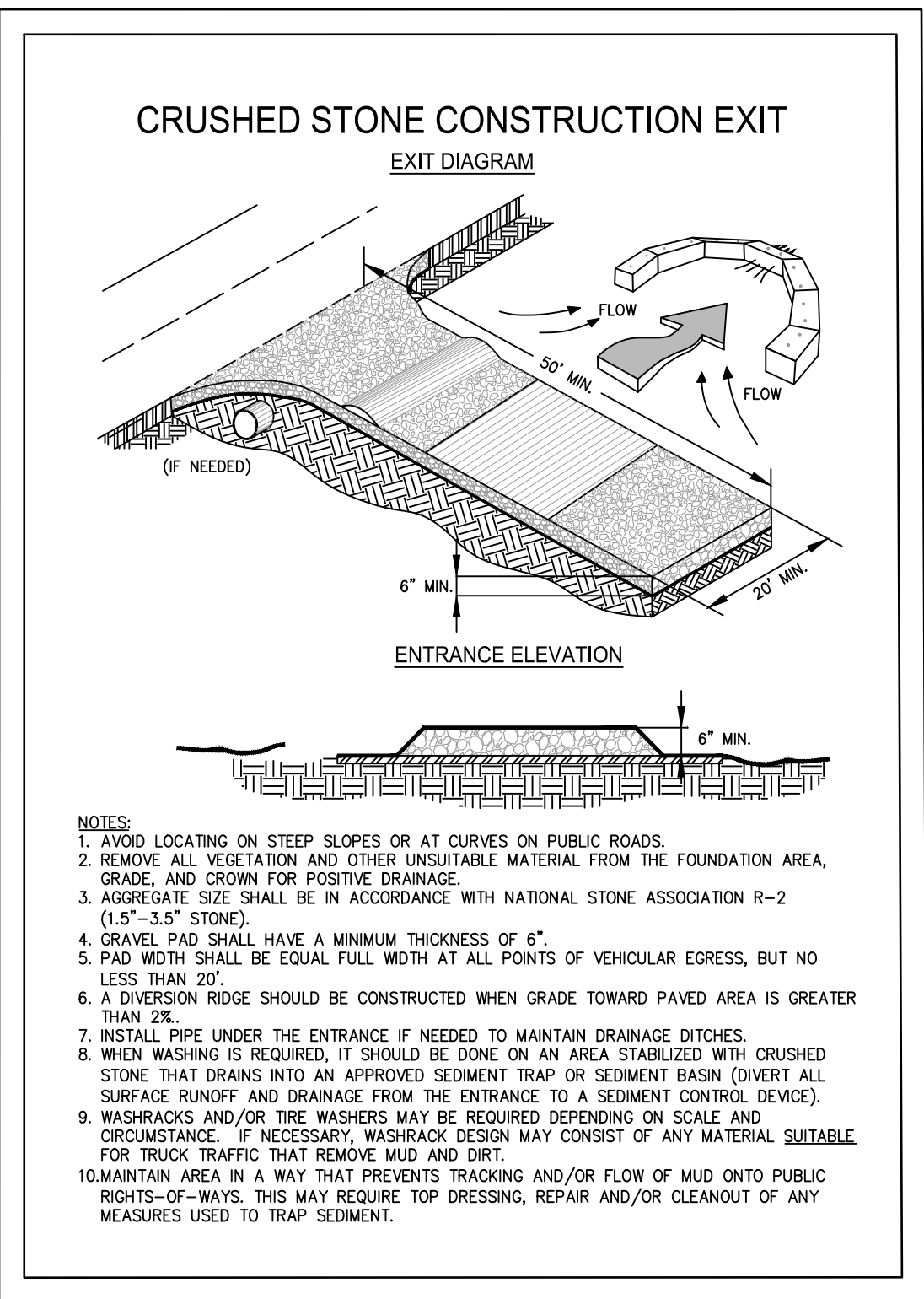
STONE CHECK DAM

Cd-S



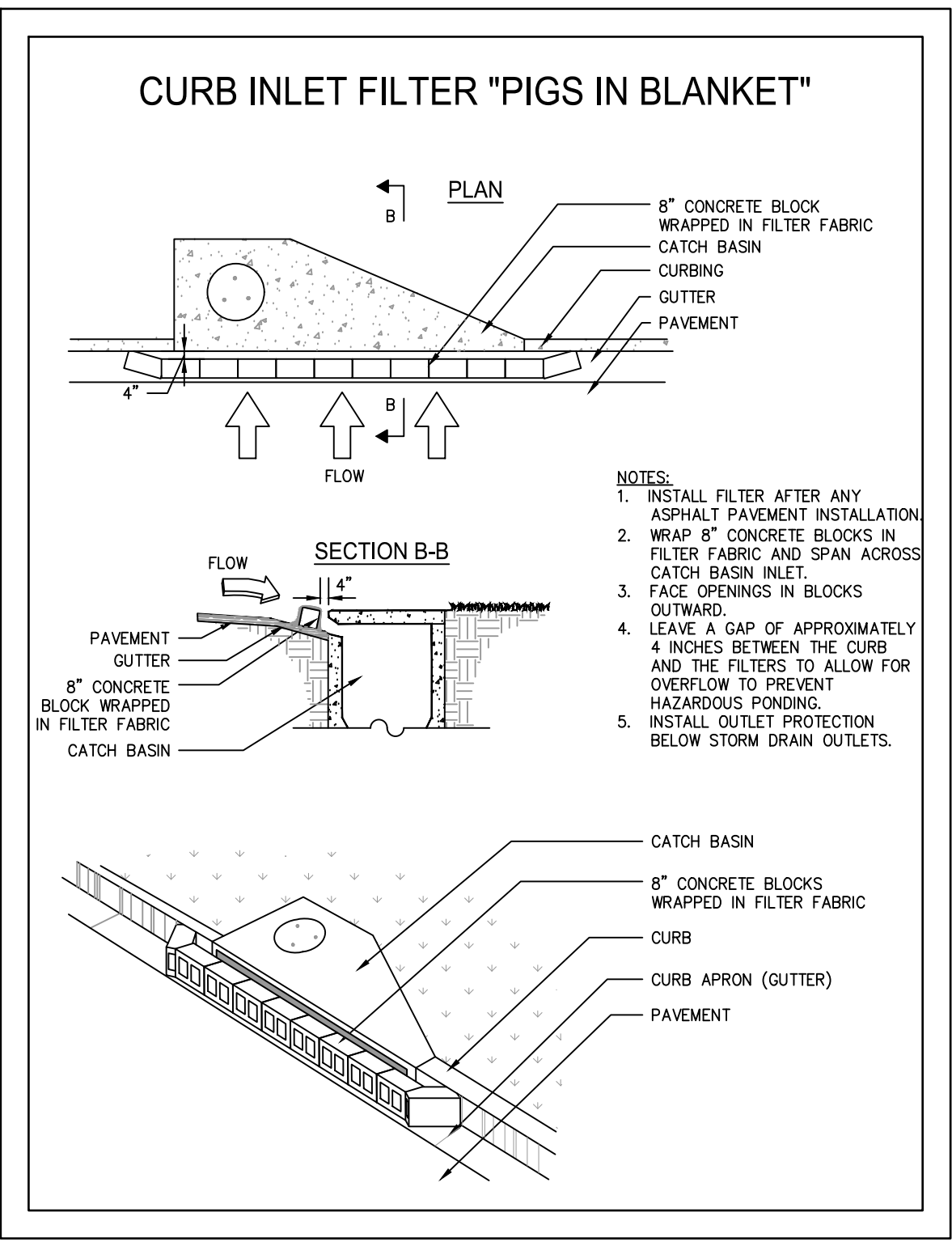
INLET SEDIMENT TRAP

Sd2-F



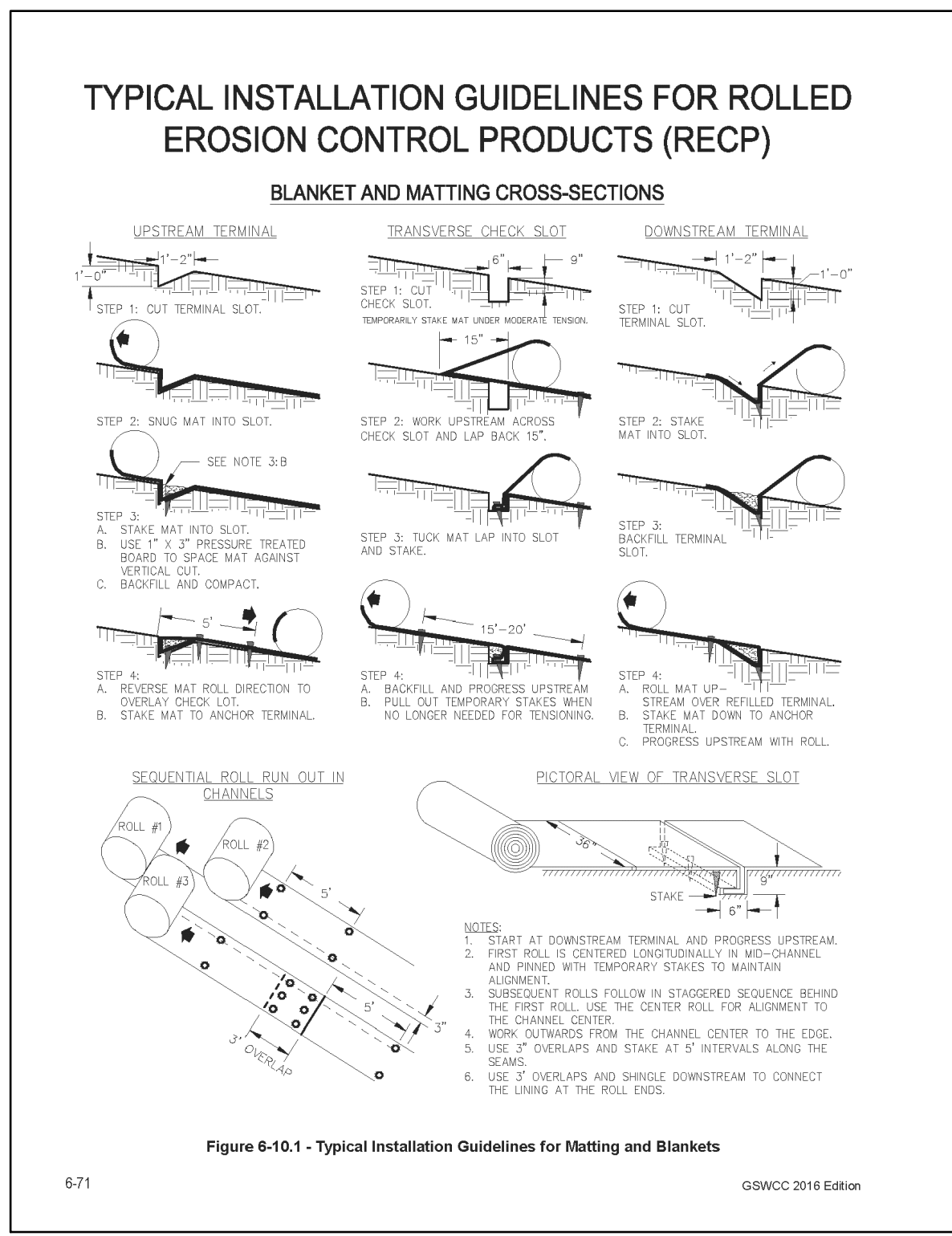
CONSTRUCTION EXIT

Co



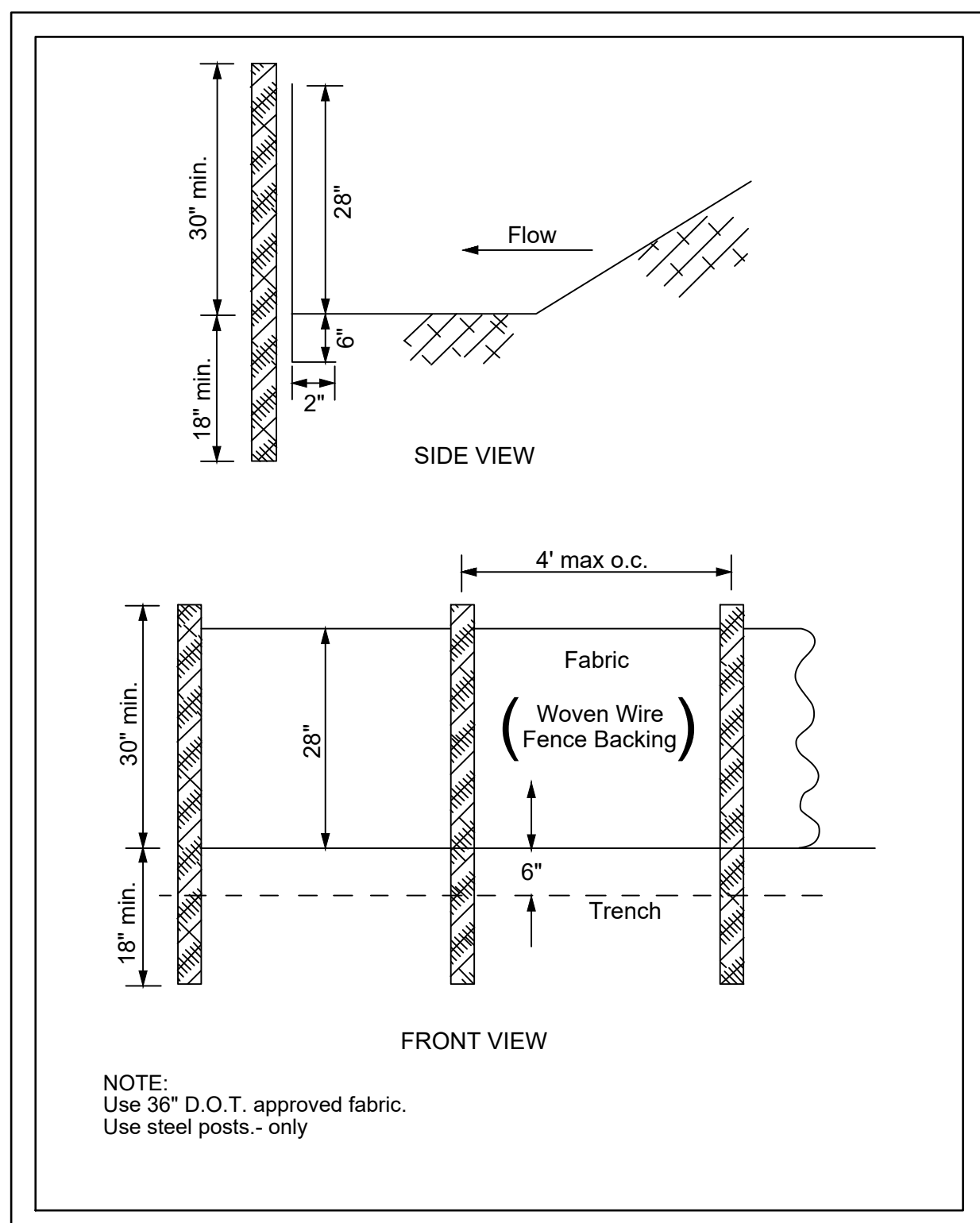
INLET SEDIMENT TRAP

Sd2-P



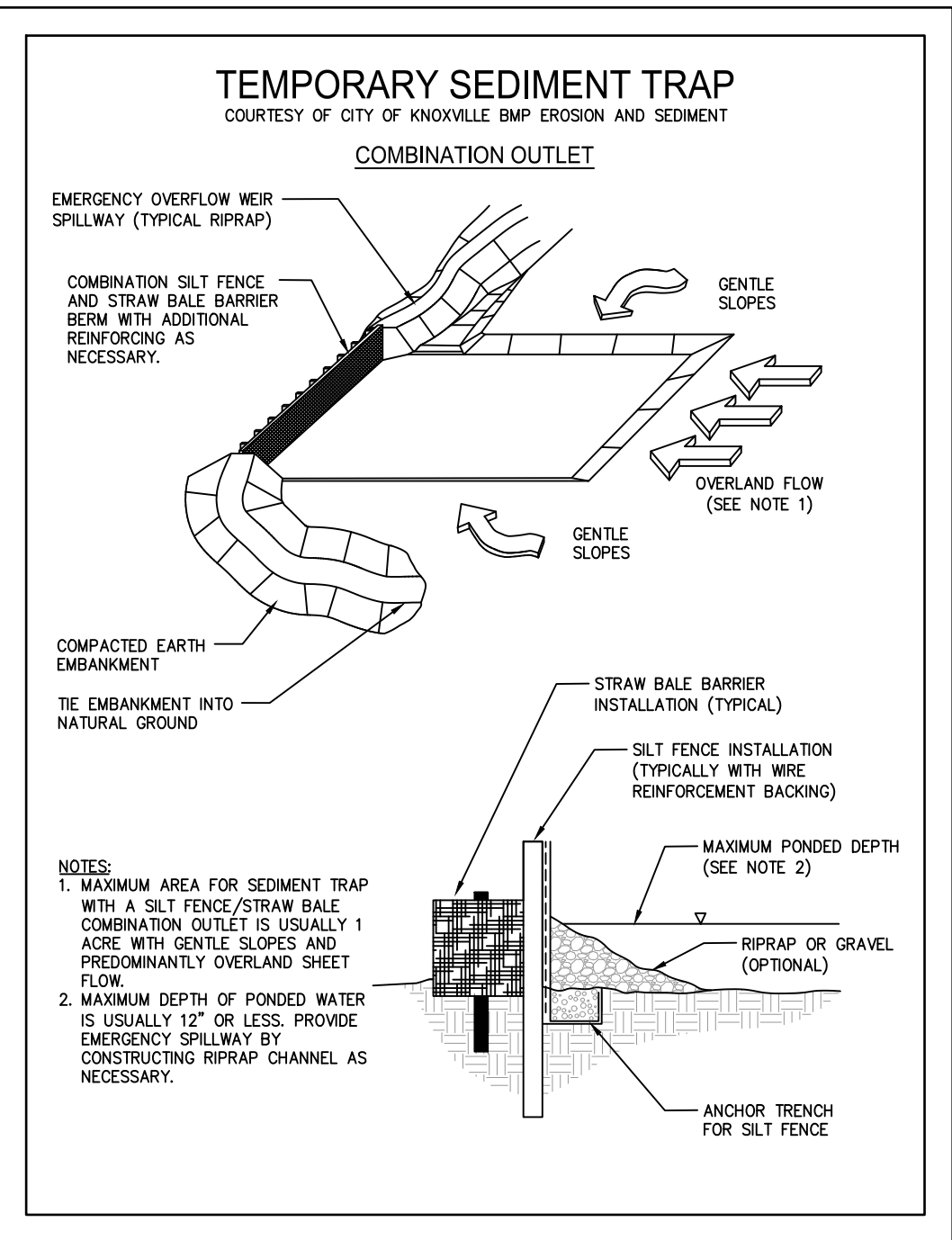
SLOPE STABILIZATION

Ss



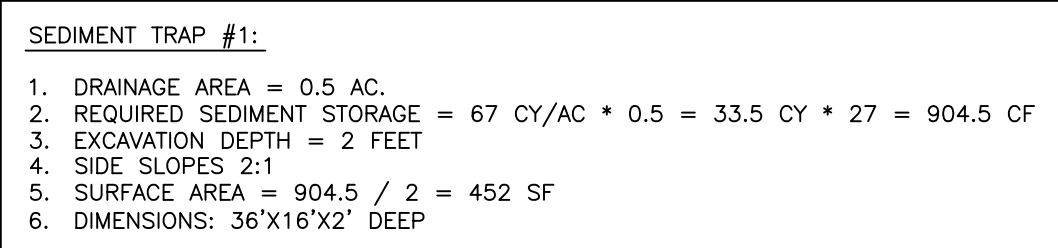
TEMPORARY SEDIMENT BARRIER

Sd1-S



TEMPORARY SEDIMENT TRAP

Sd4-B



SEDIMENT TRAP #1:

1. DRAINAGE AREA = 0.5 AC.
2. REQUIRED SEDIMENT STORAGE = 67 CY/AC * 0.5 = 33.5 CY * 27 = 904.5 CF
3. EXCAVATION DEPTH = 2 FEET
4. SIDE SLOPES 2:1
5. SURFACE AREA = 904.5 / 2 = 452 SF
6. DIMENSIONS: 35' X 16' X 2' DEEP

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
STAND ALONE CONSTRUCTION PROJECTS

SWCD: West Georgia

Project Name: Heard County Amphitheater Address: 121 South Court Square

City/County: City of Franklin/Heard County Date on Plans: 9/9/21

Name & email of person filling out checklist: Neal Spradlin, neal@ceiplans.com

Plan Included

Page # Y/N

8 Y

6-7 Y

N/A

1 Y

1 Y

1 Y

ALL Y

9 Y

1 Y

9 Y

9 Y

N/A

N/A

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

6-7 Y

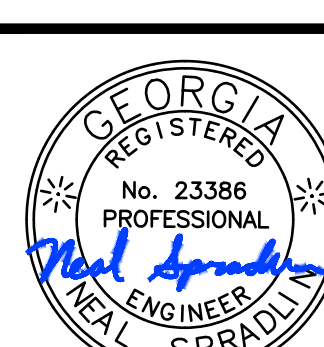
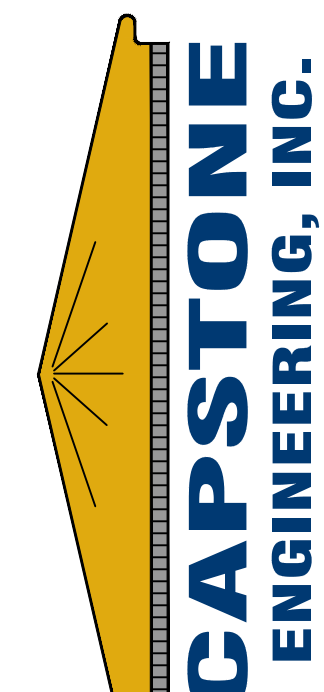
6-7 Y

6-7 Y

6-7 Y

6-7 Y

Neal Spradlin, P.E.
45 Little Road
Shapshburg, GA 30277
phone/fax: 770.902.9748
mobile: 678.859.0514



HEARD COUNTY AMPHITHEATER

EROSION CONTROL DETAILS

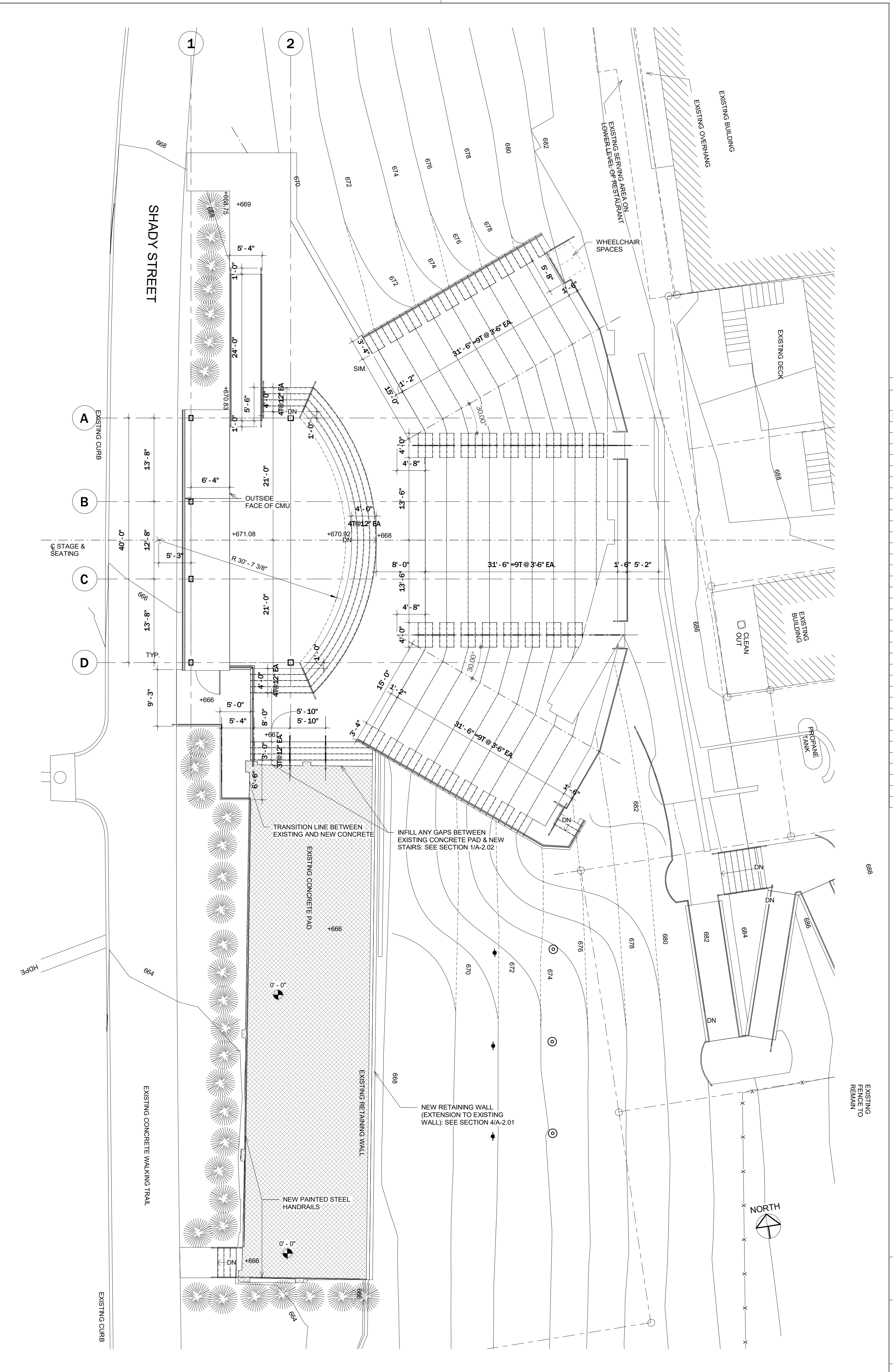
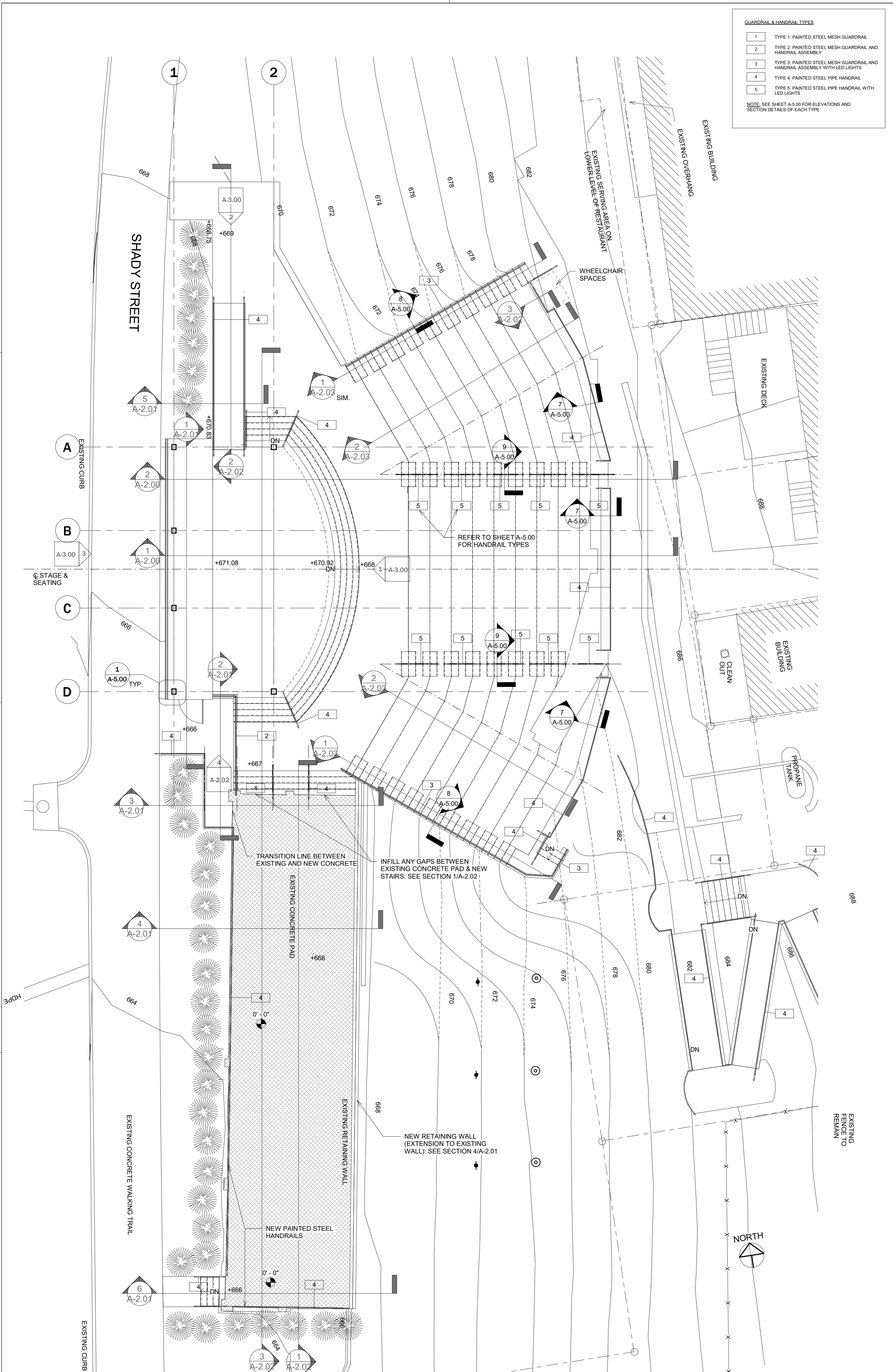
DATE: 9/9/21

DRAWN BY: MWS

SCALE: 1"=10'

SHEET 8 OF NINE

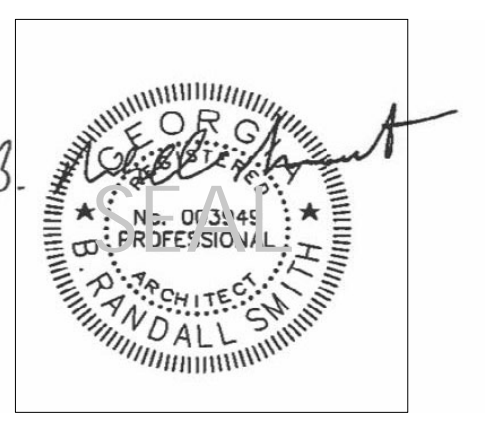
Effective January 1, 2021



Heard County
Amphitheater

River Walk
Franklin, GA
30217

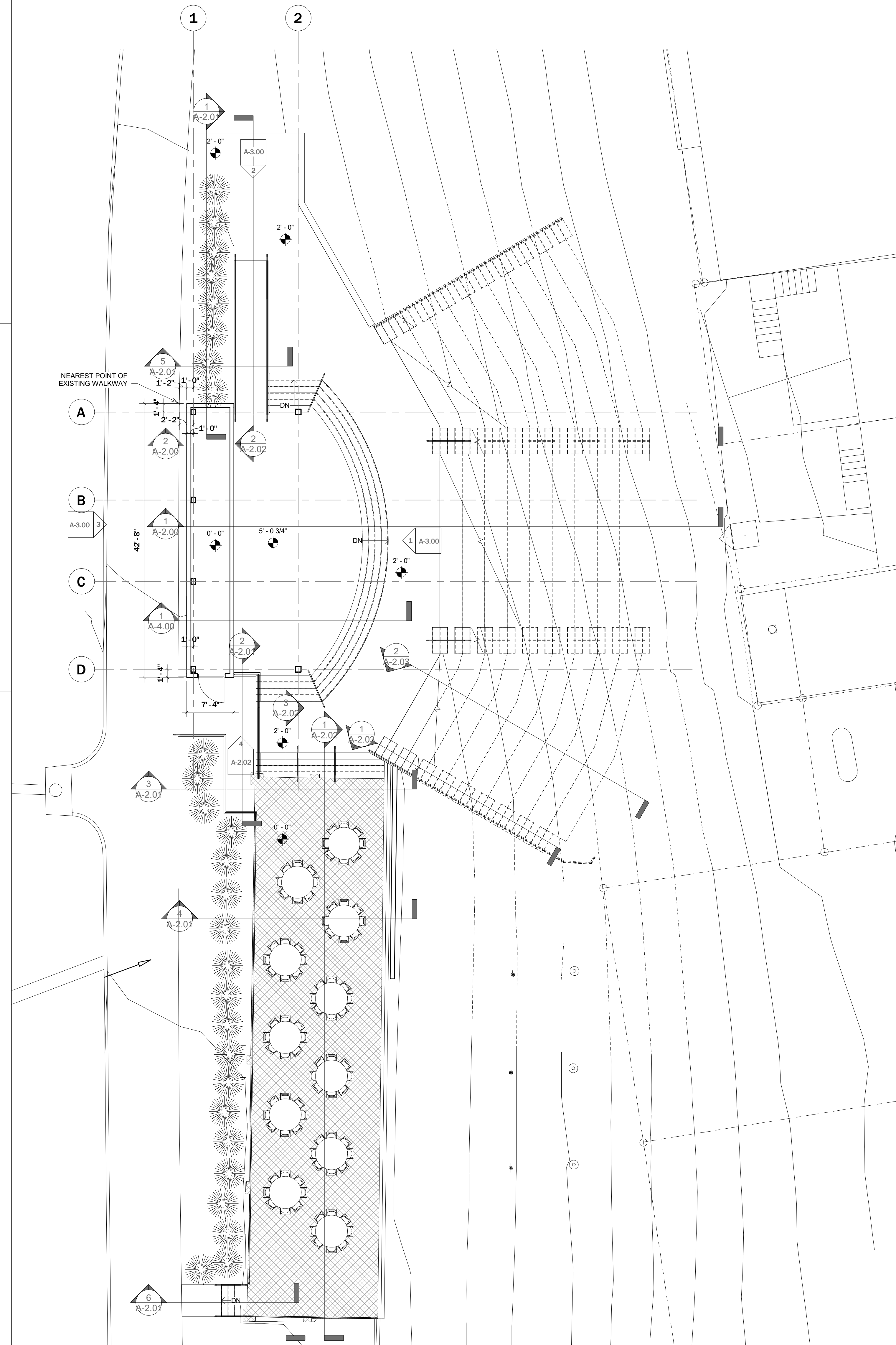
Revisions		
No.	Date	Description
0	1/15/22	Issued for Construction



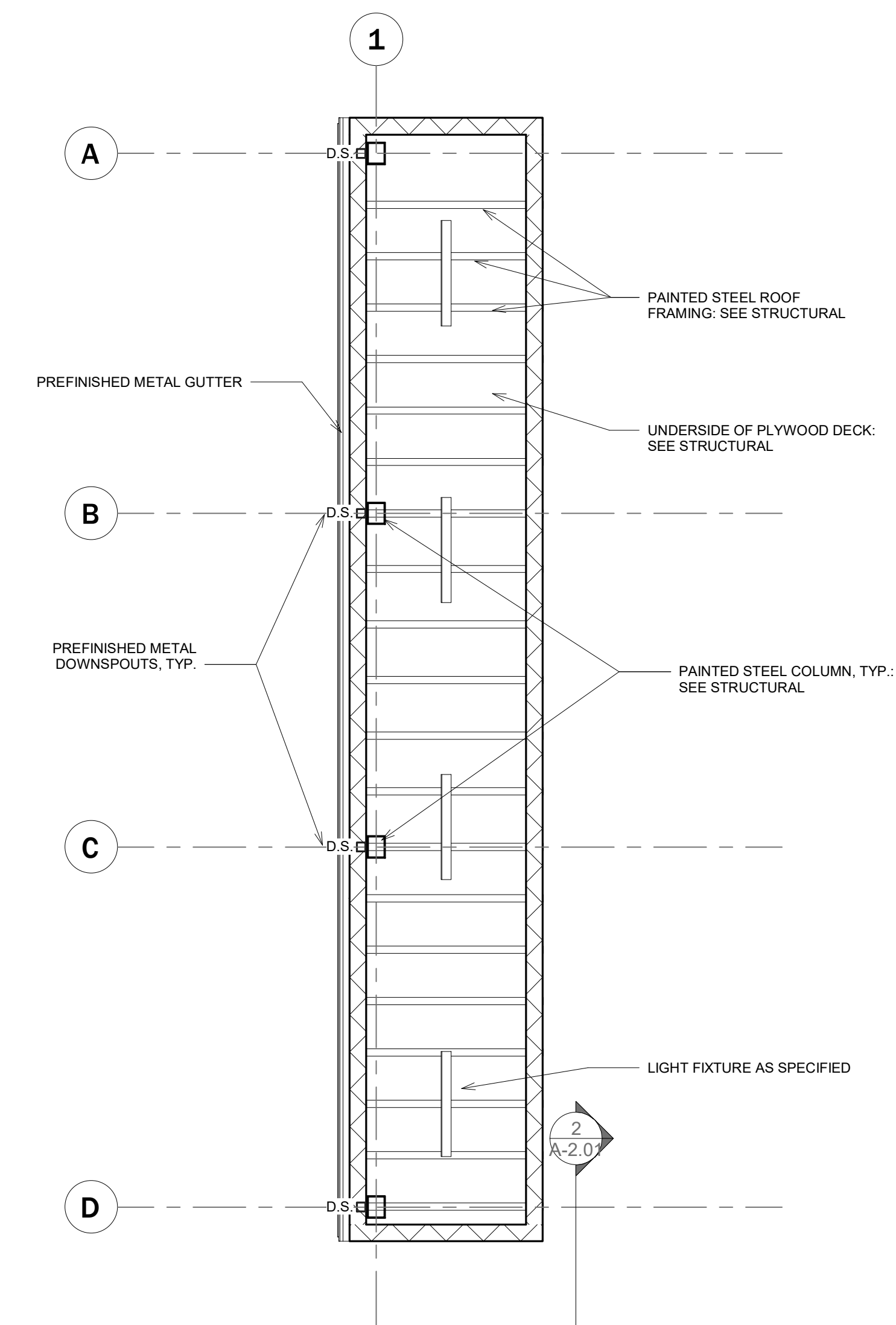
Gardner
Spencer
Smith
&
Tench &
Jarbeau

A Professional Corporation
for the Practice of Architecture
www.gsstj.com
Tower Place
3340 Peachtree Road, N.E.
Suite 1800
Atlanta, Georgia 30303
404.522.8805
404.521.2118 (F)

PROJECT NO.	
20104	
SHEET TITLE	
Stage Level Floor & Dimension Plans	
SHEET NO.	
A-1.10	



1	Terrace Level
---	---------------

$$1/8" = 1'-0"$$


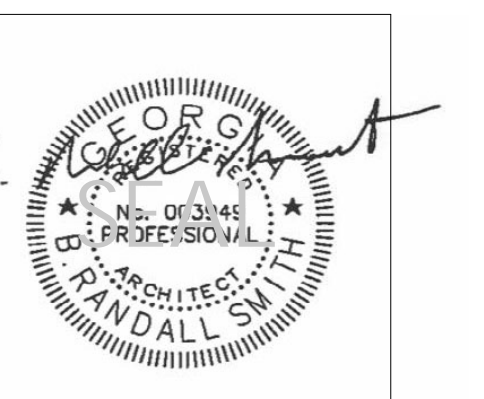
2	Terrace Level RCP
---	-------------------

$$1/4" = 1'-0"$$

Heard County
Amphitheater

River Walk
Franklin, GA
30217

RELEASED FOR CONSTRUCTION

[illegible]

Gardner
Spencer
Smith
Tench &
Jarbeau

A Professional Corporation
for the Practice of Architecture
www.gsstj.com

- Tower Place
- 3340 Peachtree Road, N.E.
- Suite 1800
- Atlanta, Georgia 30303
- 404.522.8805
- 404.521.2118 (F)

PROJECT NO.

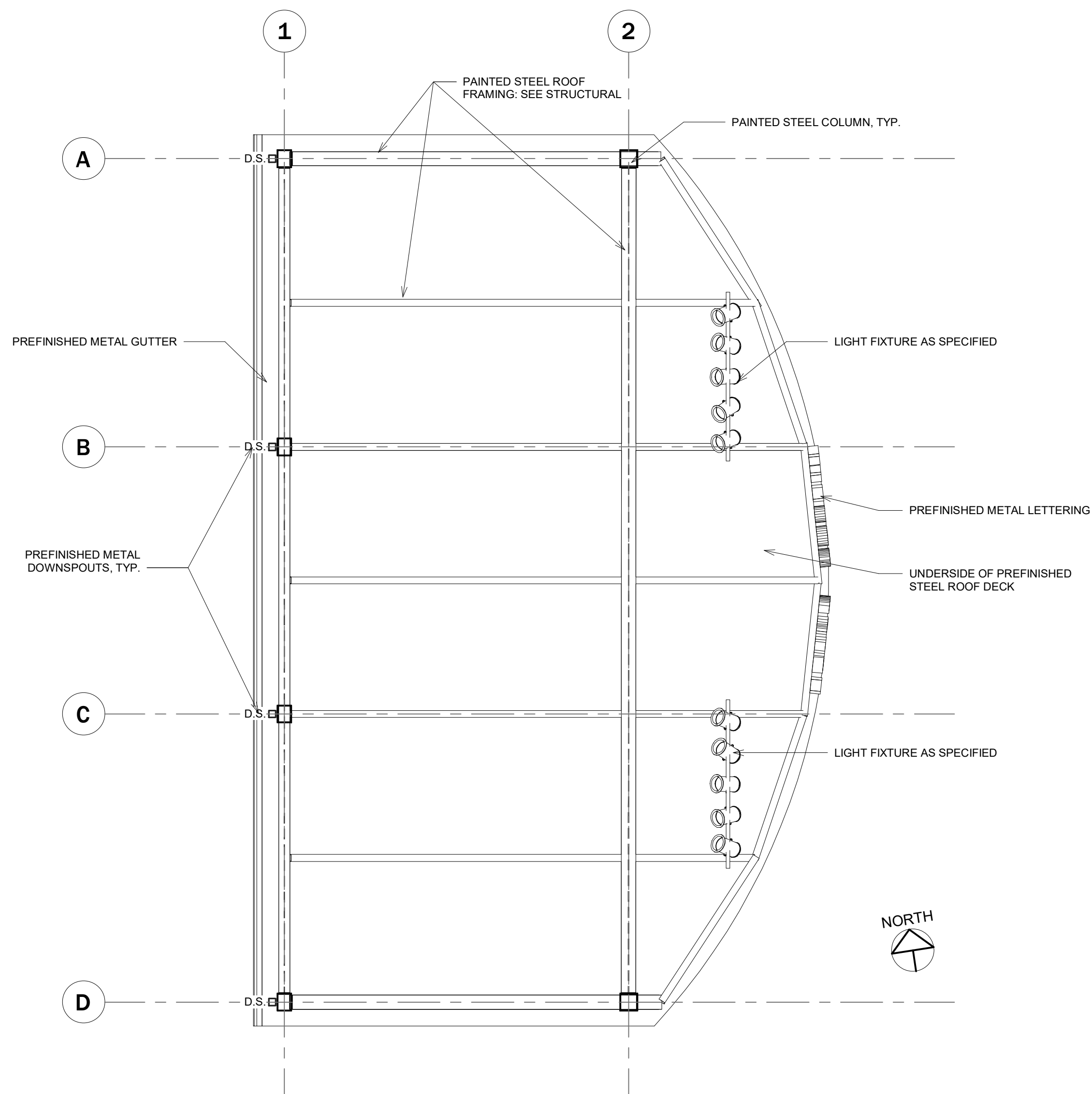
20104

SHEET TITLE

- : Terrace Level
- : Floor Plan

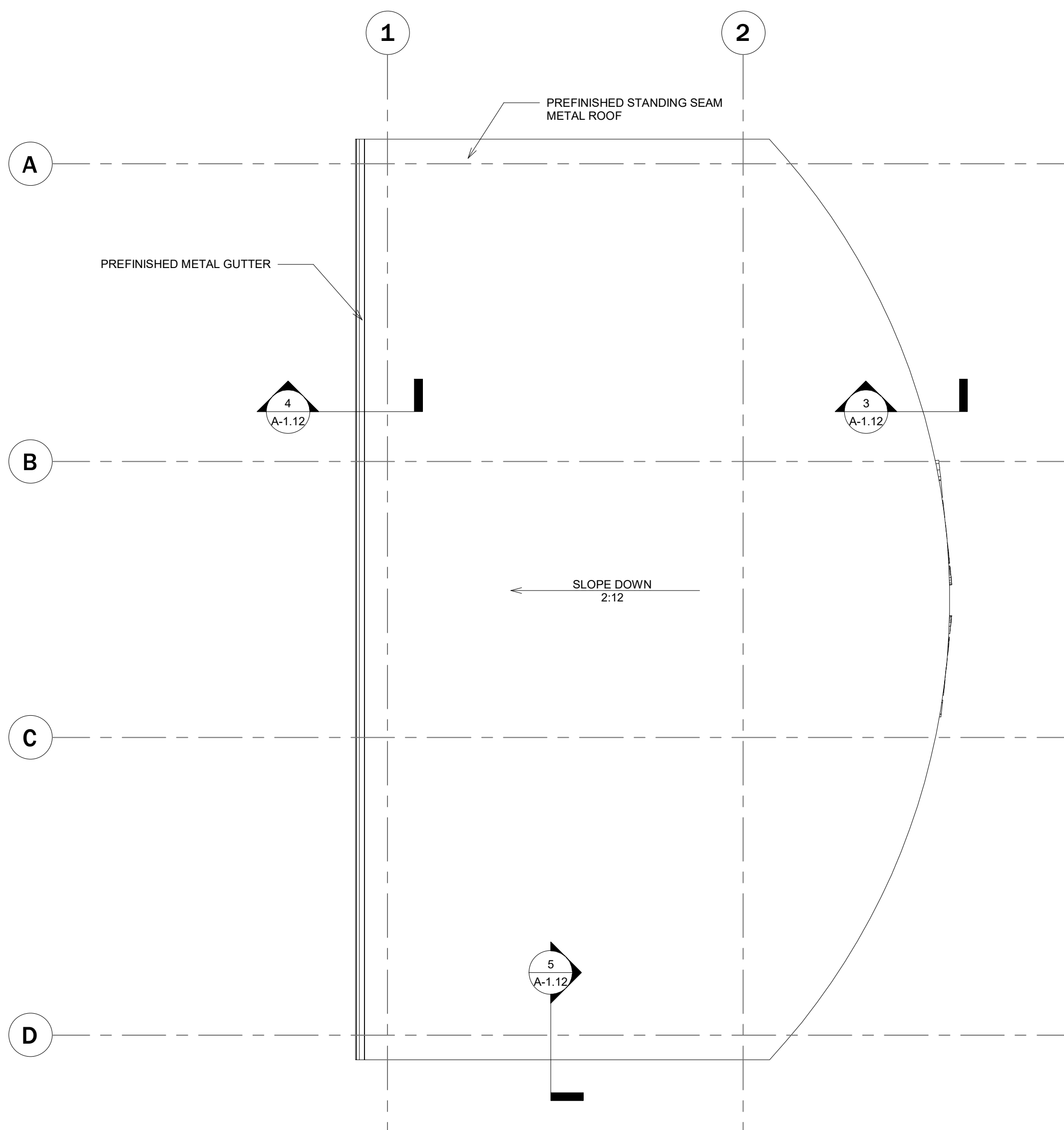
SHEET NO.

A-1.11



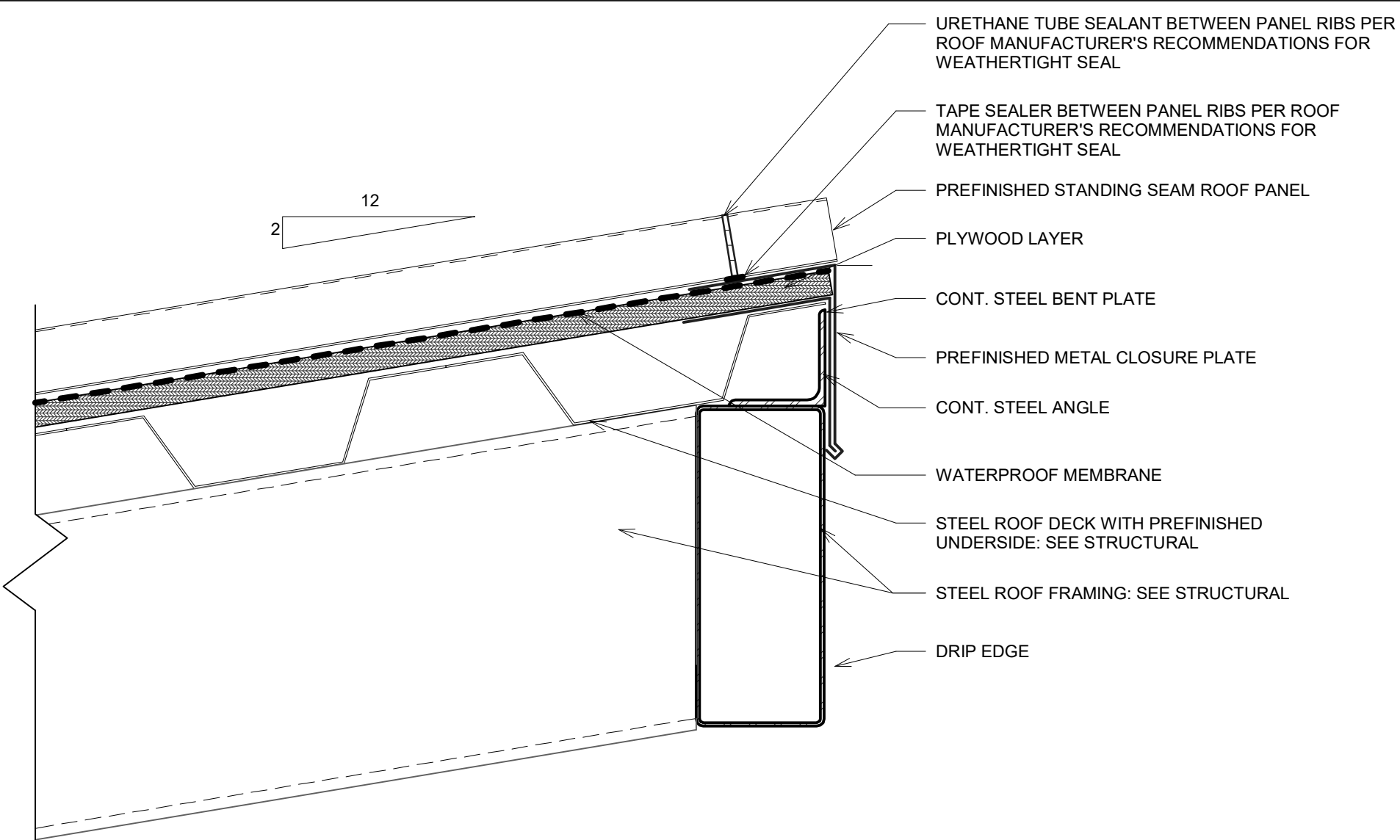
1 Level 1 RCP

1/4" = 1'-0"



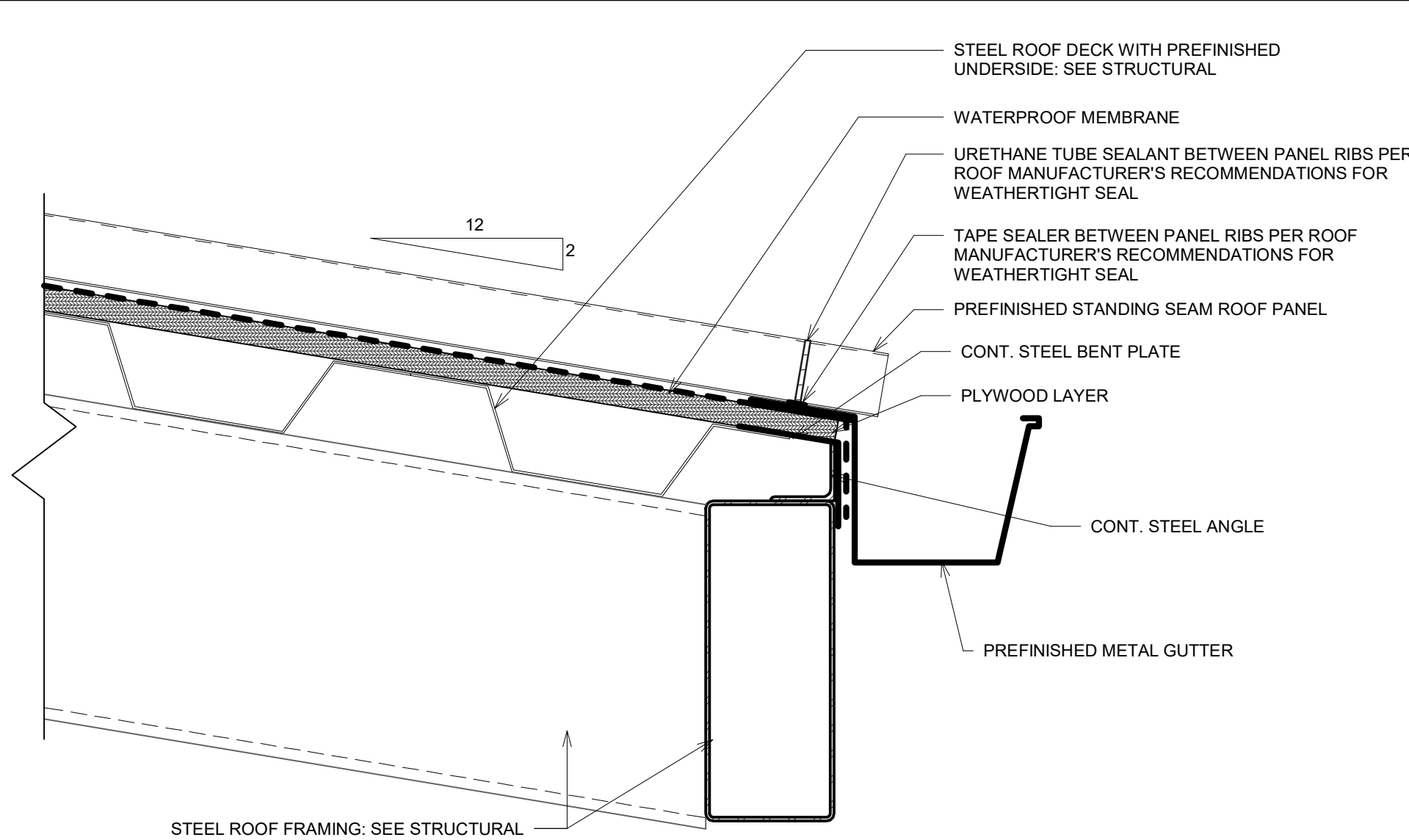
2 Roof Plan

1/4" = 1'-0"



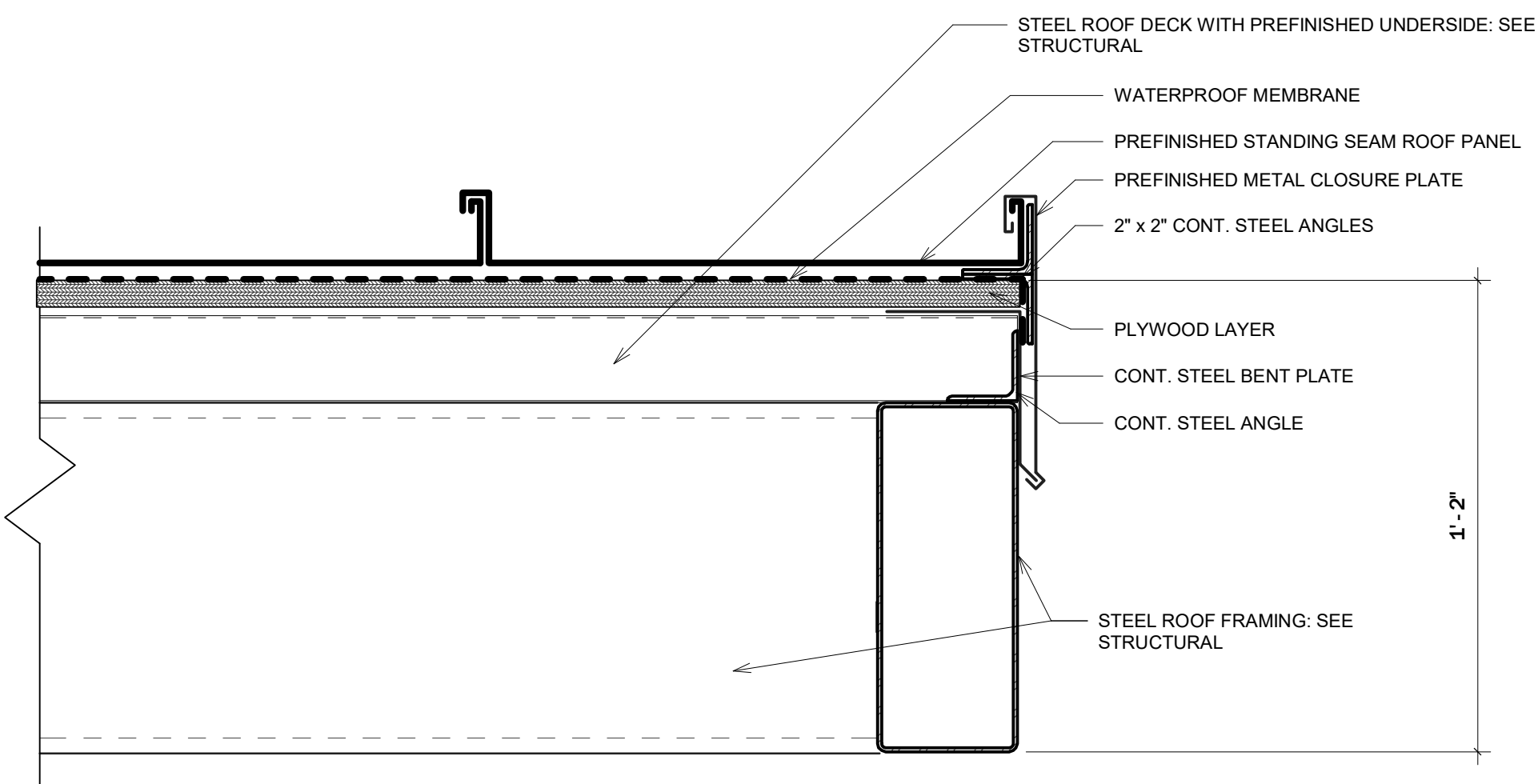
3 High Roof Edge Detail

3" = 1'-0"



4 Low Roof Edge Detail

3" = 1'-0"



5 Roof Rake Detail

3" = 1'-0"

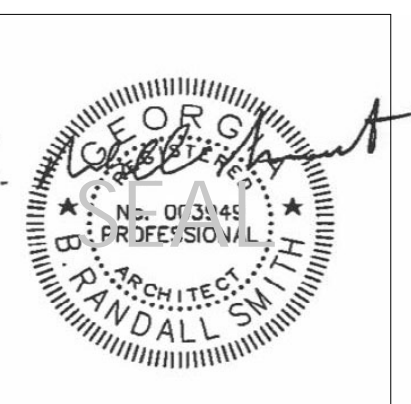
Heard County
Amphitheater

River Walk
Franklin, GA
30217

RELEASED FOR CONSTRUCTION

Revisions

No.	Date	Description
0	1/15/22	Issued for Construction



Gardner
Spencer
Smith
&
Jarbeau

A Professional Corporation
for the Practice of Architecture

www.gsstj.com

Tower Place
3340 Peachtree Road, N.E.
Suite 1800
Atlanta, Georgia 30303
404.522.8805
404.521.2118 (F)

PROJECT NO.

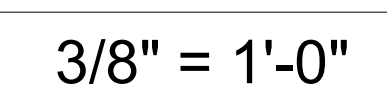
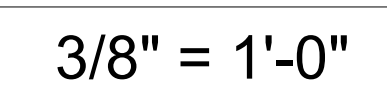
20104

SHEET TITLE

Stage RCP and
Roof Plan &
Details

SHEET NO.

A-1.12



B. [Signature]

: Character[illegible]Tench &: larbeau* A Professional Corporation

www.gssstj.com

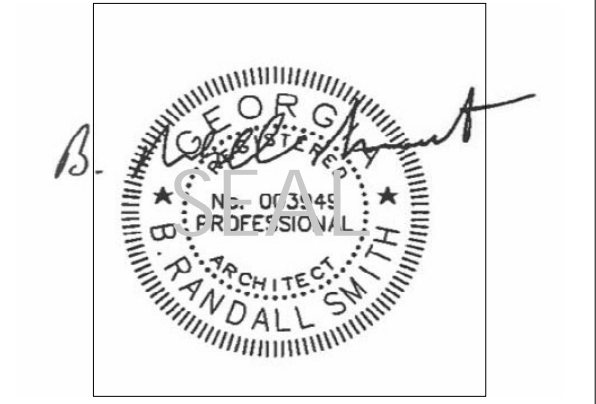
- 3340 Peachtree Road, N.E.
- Suite 1800

404.521.2118 (F): 20104

Building Sections

SHEET NO. **A0001**

A-2.01



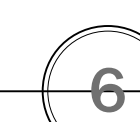
SCALE: 3/8" = 1'-0"



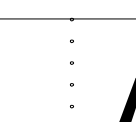
SCALE: 3/8" = 1'-0"



SCALE: $3/8" = 1'-0"$



SCALE: $3/8" = 1'-0"$



SCALE: 3/8" = 1'-0"



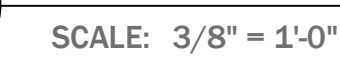


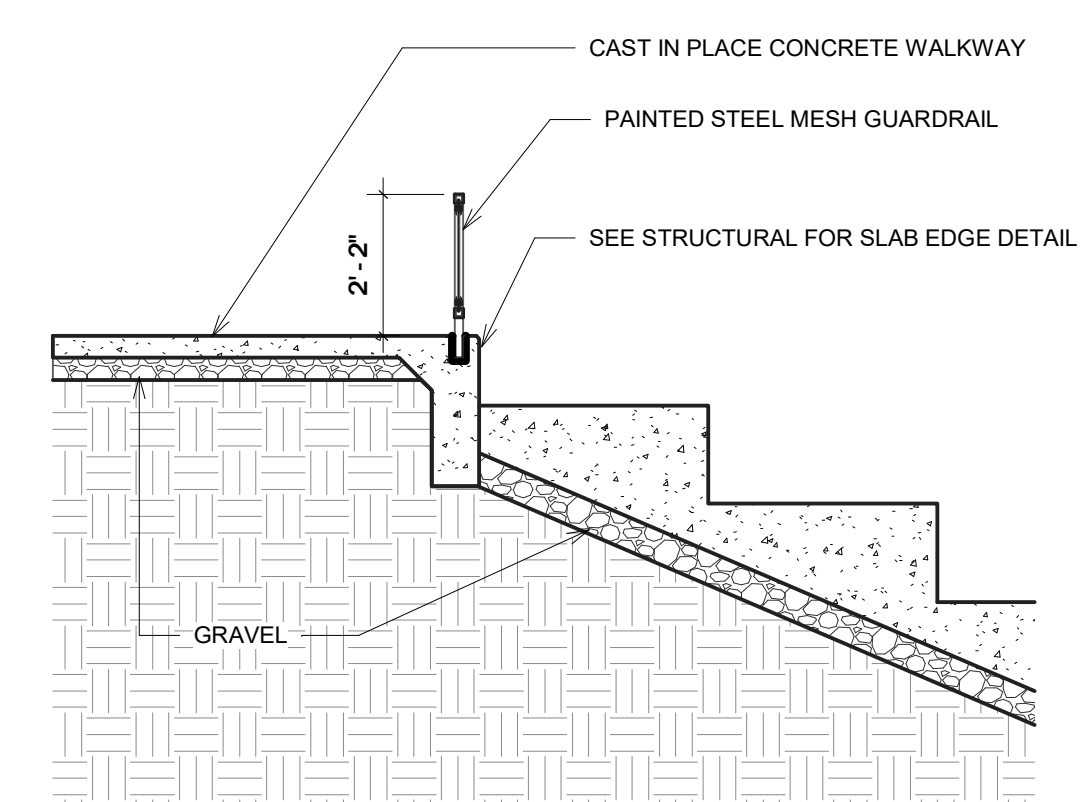
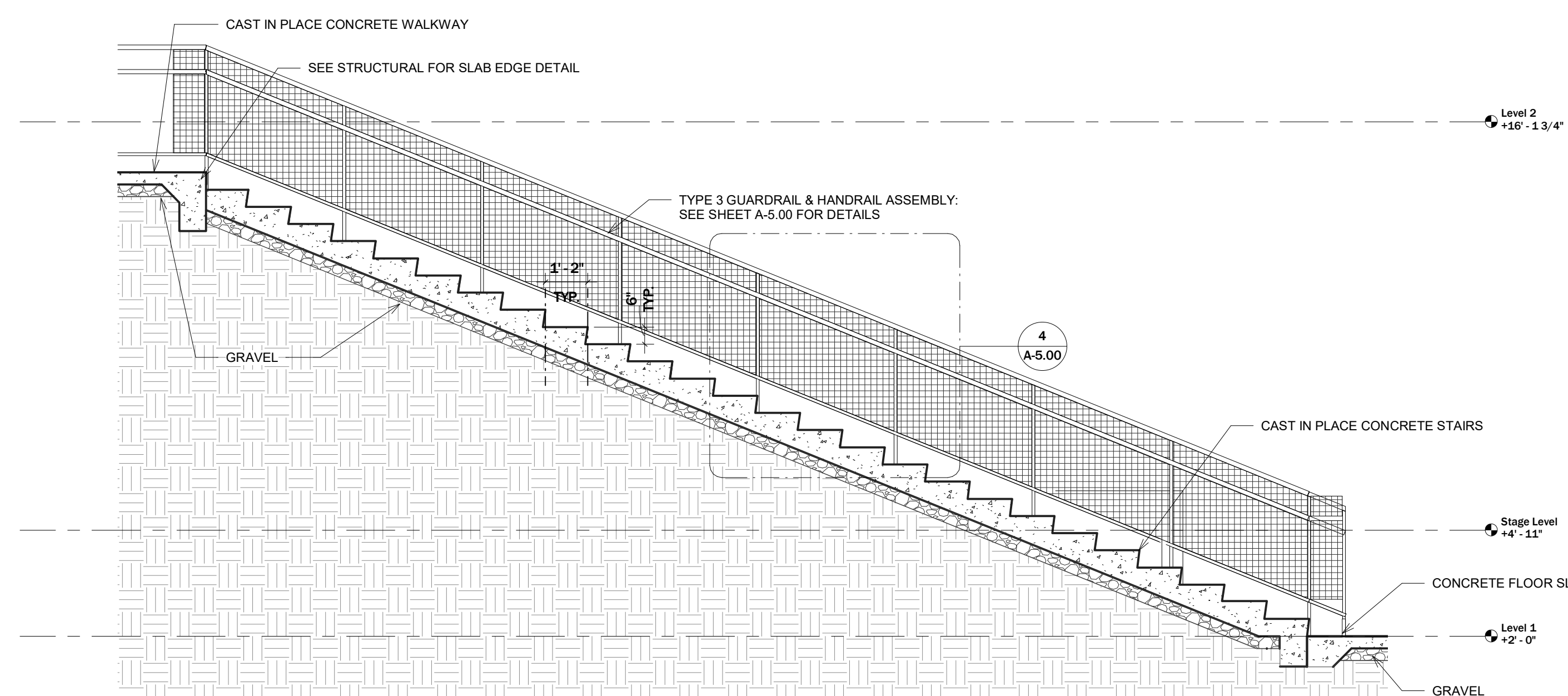
Lower Place
3340 Peachtree Road, N.E.
Suite 1800
Atlanta, Georgia 30303
404.522.8805
404.521.2118 (F)

20104

Building Sections

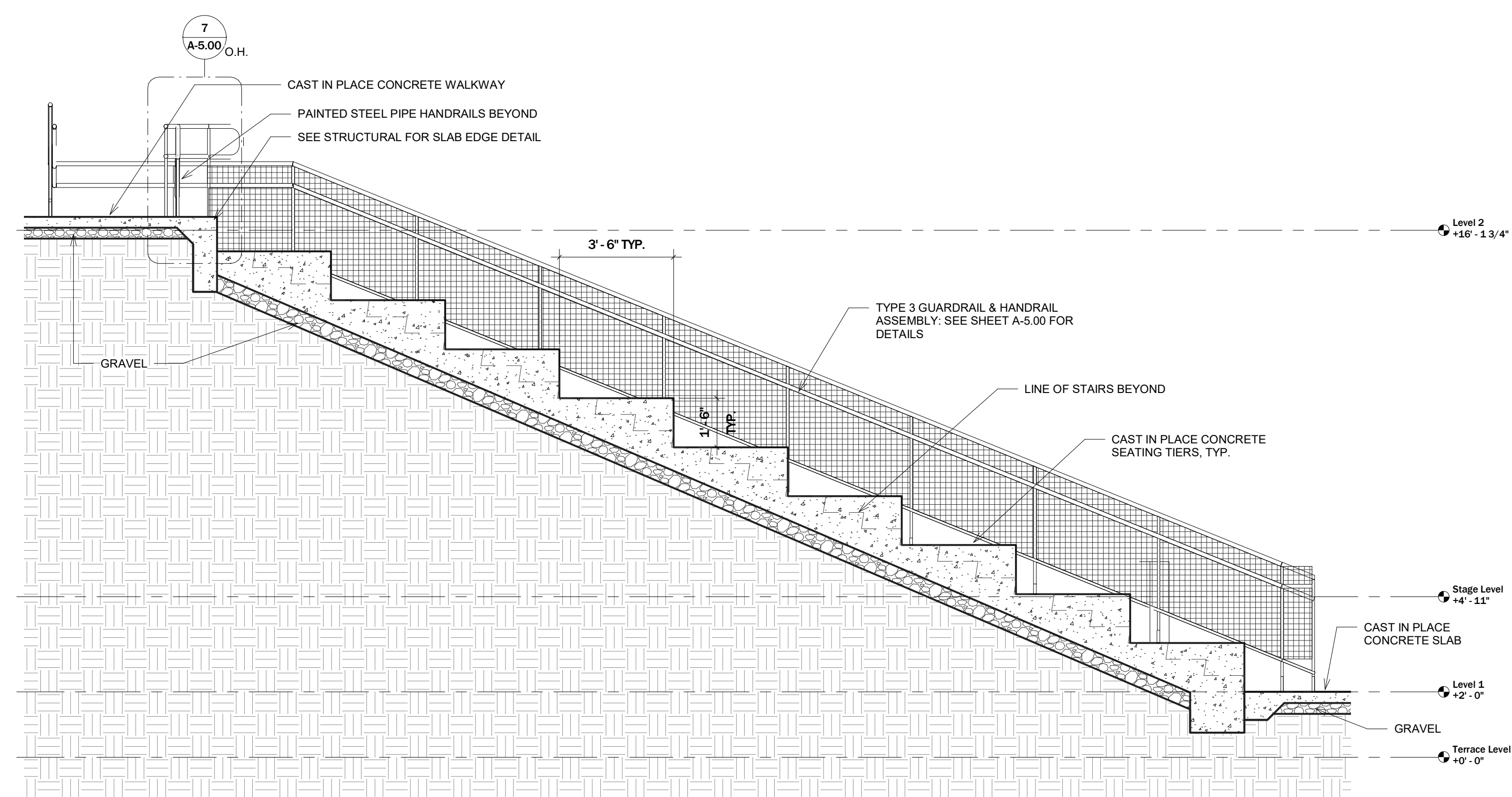
A-2.02





3	Section at Handicapped Seating	3/8" = 1'-0"
---	--------------------------------	--------------

1	Section at End Stairs
---	-----------------------

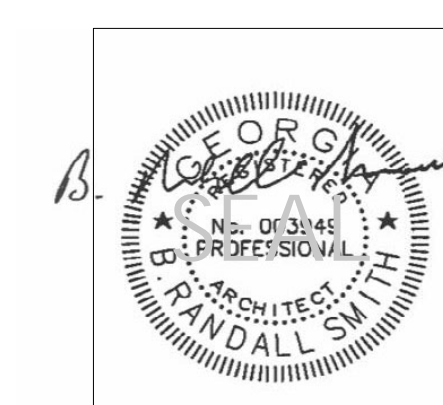


2	Section at Side Seating Tiers
---	-------------------------------

Heard County
Amphitheater

River Walk
Franklin, GA
30217

● RELEASED FOR CONSTRUCTION

[illegible]

Gardner
Spencer
Smith
Tench &
Jarbeau

A Professional Corporation
 for the Practice of Architecture
www.gsstj.com

- Tower Place
- 3340 Peachtree Road, N.E.
- Suite 1800
- Atlanta, Georgia 30303
- 404.522.8805
- 404.521.2118 (F)

PROJECT NO.	
-------------	--

20104

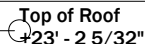
	SHEET TITLE
--	-------------

- Building Sections


	SHEET NO.
--	-----------

A-2.03


$$1/4'' = 1'-0''$$

$$1/4" = 1'-0"$$

$$1/4" = 1'-0"$$

River Walk
Franklin, GA
30217

B. 

• A Professional Corporation
• for the Practice of Architecture
• **www.gsstj.com**

- Tower Place
- 3340 Peachtree Road, N.E.
- Suite 1800
- Atlanta, Georgia 30303
- 404.522.8805
- 404.521.2118 (F)

PROJECT NO.

20104

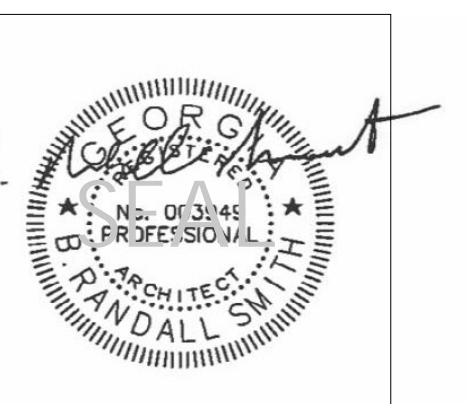
SHEET TITLE

Exterior
Elevations

SHEET NO.

A-3.00

© 2019 THESE DOCUMENTS REMAIN THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION.

[illegible]

Gardner
Spencer
Smith
Tench &
Jarbeau

A Professional Corporation
for the Practice of Architecture
www.gsstj.com

Tower Place
3340 Peachtree Road, N.E.
Suite 1800
Atlanta, Georgia 30303
404.522.8805
404.521.2118 (F)

PROJECT NO.

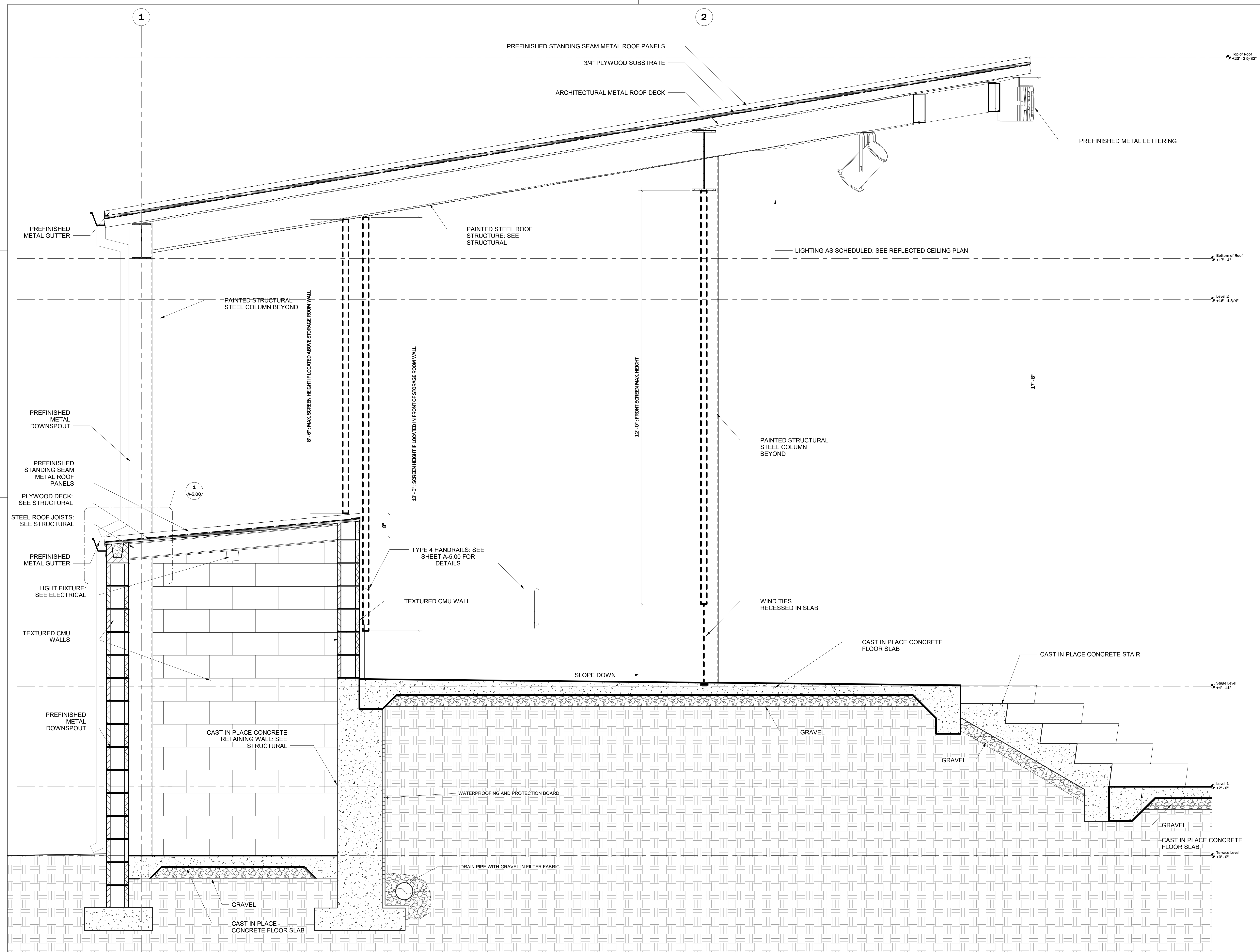
20104

SHEET TITLE

Enlarged Stage
Section

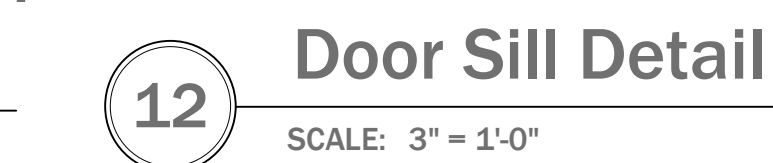
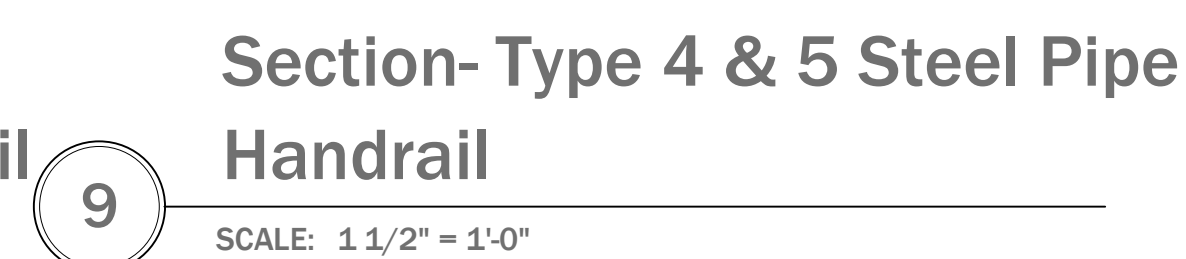
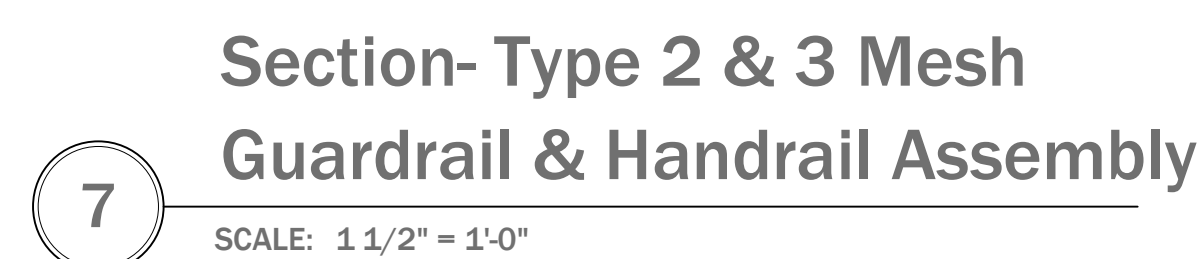
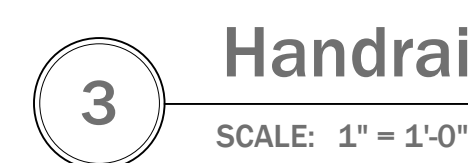
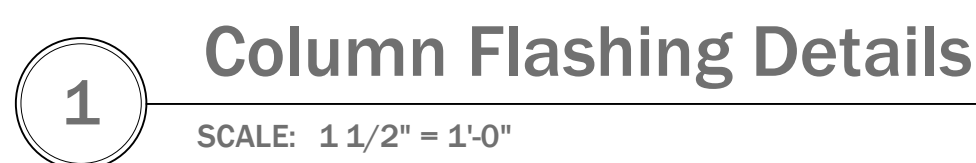
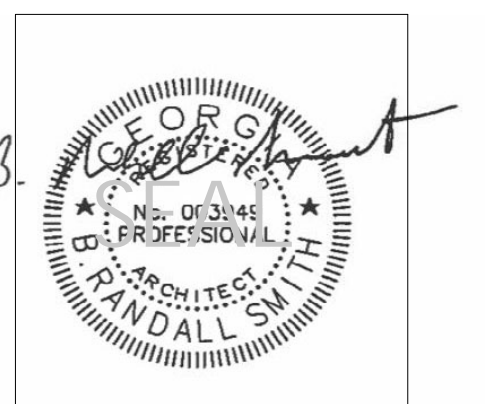
SHEET NO.

A-4.00



1	Enlarged Section at Stage
---	---------------------------

1" = 1'-0"

[illegible]

Gardner
Spencer
Smith
Tench &
Jarbeau

A Professional Corporation
for the Practice of Architecture
www.gsstj.com

Tower Place
3340 Peachtree Road, N.E.
Suite 1800
Atlanta, Georgia 30303
404.522.8805
404.521.2118 (F)

PROJECT NO.	20104
-------------	-------

Details

SHEET NO. 00

A-5.00

RIVER WALK
FRANKLIN, GA 30217

RIVER WALK
FRANKLIN, GA 30217



RELEASED FOR CONSTRUCTION

[illegible]

Gardner
Spencer
Smith
Tench &
Jarbeau

A Professional Corporation
for the Practice of Architecture

50 Hurt Plaza SE
Suite 1100
Atlanta Georgia 30303
404 522 8805
404 521 2118 (f)
www.gsstj.com

PROJECT NO.

20104

SHEET TITLE

Special Inspections

SHEET NO.

S-0.11

SPECIAL INSPECTIONS NOTES

1. DURING CONSTRUCTION, SPECIAL STRUCTURAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1705 OF THE 2018 IBC. AN INSPECTION REPORT SHALL BE SUBMITTED TO THE BUILDING OFFICIAL, ARCHITECT, AND THE SPECIAL INSPECTOR. SPECIAL INSPECTIONS SHALL BE LIMITED TO THE BUILDING OFFICIAL, ARCHITECT, AND THE SPECIAL INSPECTOR. SPECIAL INSPECTIONS SHALL BE LIMITED TO THE BUILDING OFFICIAL, ARCHITECT, AND THE SPECIAL INSPECTOR.
2. SPECIAL INSPECTOR SHALL PREPARE THE REQUIRED QUALITY ASSURANCE PLANS & SUBMIT PLAN TO BUILDING OFFICIAL, ARCHITECT, AND THE STRUCTURAL ENGINEER FOR APPROVAL.
3. DURING CONSTRUCTION, THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK FOR CONFORMANCE WITH THE PERMITTED CONSTRUCTION DOCUMENTS. THE SPECIAL INSPECTOR SHALL FURNISH A WRITTEN CONSTRUCTION REPORT TO THE BUILDING OFFICIAL, ARCHITECT, AND THE STRUCTURAL ENGINEER. THE FREQUENCY OF REPORTS SHALL BE AS AGREED UPON BY THE BUILDING OFFICIAL. ALL NONCONFORMING ITEMS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. WHEN CORRECTED, THE BUILDING OFFICIAL, ARCHITECT, AND THE STRUCTURAL ENGINEER.
4. THE SPECIAL INSPECTOR, UPON COMPLETION OF THE WORK AND PRIOR TO THE ISSUANCE OF THE FINAL SUBMITTAL, SHALL SUBMIT A WRITTEN CONSTRUCTION REPORT TO THE BUILDING OFFICIAL, ARCHITECT, AND THE STRUCTURAL ENGINEER. THE SPECIAL INSPECTOR SHALL DOCUMENT THE COMPLETION OF ALL REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE PRIOR REPORTS.
5. THE SPECIAL INSPECTOR SHALL BE INSPECTED FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS AND REQUIREMENTS OF SECTION 1705 OF THE 2018 IBC, INCLUDING, BUT NOT BE LIMITED TO THE SECTIONS LISTED ON THIS DRAWING.
6. SPECIAL INSPECTIONS FOR WIND RESISTANCE ARE NOT REQUIRED PER IBC 1705.10.
7. SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE ARE NOT REQUIRED PER IBC 1705.11.

SCHEDULE OF SPECIAL INSPECTIONS			
MATERIAL / ACTIVITY	SERVICE	APPLICABLE TO THIS PROJECT	
		Y/N	EXTENT
1705.2.1 STEEL CONSTRUCTION			
FABRICATOR AND ERECTOR DOCUMENTS (VERIFY REPORTS AND CERTIFICATES AS LISTED IN AISC 360, SECTION N 3.2 FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS)	SUBMITTAL REVIEW	Y	EACH SUBMITTAL
MATERIAL VERIFICATION OF STRUCTURAL STEEL	SHOP* AND FIELD INSPECTION	Y	PERIODIC
STRUCTURAL STEEL WELDING:			
1. INSPECTION TASKS PRIOR TO WELDING PER AISC 360 TABLE N5.4-1	SHOP* AND FIELD INSPECTION	Y	OBSERVE OR PERFORM AS NOTED
2. INSPECTION TASKS DURING TO WELDING PER AISC 360 TABLE N5.4-2	SHOP* AND FIELD INSPECTION	Y	OBSERVE
3. INSPECTION TASKS AFTER TO WELDING PER AISC 360 TABLE N5.4-3	SHOP* AND FIELD INSPECTION	Y	OBSERVE OR PERFORM AS NOTED
4. NONDESTRUCTIVE TESTING (NDT) OF WELDED JOINTS		Y	
A. COMPLETE PENETRATION GROOVE WELDS 5/16" OR GREATER IN RISK CATEGORY III OR IV	SHOP OR FIELD ULTRASONIC TESTING - 100%	Y	PERIODIC
B. COMPLETE PENETRATION GROOVE WELDS 5/16" OR GREATER IN RISK CATEGORY II	SHOP OR FIELD ULTRASONIC TESTING - 10% OF WELDS MINIMUM	Y	PERIODIC
C. WELDED JOINTS SUBJECT TO FATIGUE WHEN REQUIRED BY AISC 360, APPENDIX 3, TABLE A-3.1	SHOP OR FIELD RADIOGRAPHIC OR ULTRASONIC TESTING	Y	PERIODIC
D. FABRICATOR'S NDT REPORTS WHEN FABRICATOR PERFORMS NDT	VERIFY REPORTS	Y	EACH SUBMITTAL
STRUCTURAL STEEL BOLTING:	SHOP AND FIELD INSPECTION	Y	
1. INSPECTION TASKS PRIOR TO BOLTING (OBSERVE, OR PERFORM TASKS FOR EACH BOLTED CONNECTION, IN ACCORDANCE WITH QA TASKS LISTED IN AISC 360, TABLE N5.6-1)		Y	OBSERVE OR PERFORM AS NOTED
2. INSPECTION TASKS DURING BOLTING (OBSERVE THE QA TASKS LISTED IN AISC 360, TABLE N5.6-2)			OBSERVE
A. PRE-TENSIONED & SLIP CRITICAL JOINTS			
1) TURN-OF-NUT WITH MATCHING MARKINGS		Y	PERIODIC
2) DIRECT TENSION INDICATOR		Y	PERIODIC
3) TWIST-OFF TYPE TENSION CONTROL BOLT		Y	PERIODIC
4) TURN-OF-NUT WITHOUT MATCHING MARKINGS		Y	CONTINUOUS
5) CALIBRATED WRENCH		Y	CONTINUOUS
B. SNUG TIGHT JOINTS		Y	PERIODIC
3. INSPECTION TASKS AFTER BOLTING (PERFORM TASKS FOR EACH BOLTED CONNECTION IN ACCORDANCE WITH QA TASKS LISTED IN AISC 360, TABLE N5.6-3)		Y	PERFORM
VISUAL INSPECTION OF EXPOSED CUT SURFACES OR GALVANIZED STRUCTURAL STEEL MAIN MEMBERS AND EXPOSED CORNERS OF THE RECTANGULAR HSS FOR CRACKS SUBSEQUENT TO GALVANIZING	SHOP* AND FIELD INSPECTION	Y	PERIODIC
EMBEDMENTS (VERIFY DIAMETER, GRADE, TYPE, LENGTH, EMBEDMENT. SEE 1705.3 FOR ANCHORS)	FIELD INSPECTION	Y	PERIODIC
VERIFY MEMBER LOCATIONS, BRACES, STIFFENERS, AND APPLICATION OF JOINT DETAILS AT EACH CONNECTION COMPLY WITH CONSTRUCTION DOCUMENT	FIELD INSPECTION	Y	PERIODIC
1705.2.2 COLD-FORMED STEEL DECK			
MANUFACTURER DOCUMENTS (VERIFY REPORTS AND CERTIFICATES AS LISTED IN SDI Q/A/QC, SECTION 2, PARAGRAPHS 2.1 AND 2.2 FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS)	SUBMITTAL REVIEW	Y	EACH SUBMITTAL
MATERIAL VERIFICATION OF STEEL DECK, MECHANICAL FASTENERS AND WELDING MATERIALS	SHOP* AND FIELD INSPECTION	Y	PERIODIC
COLD-FORMED STEEL DECK PLACEMENT:			
1. INSPECTION TASKS PRIOR TO DECK PLACEMENT (PERFORM THE QA TASKS LISTED IN SDI Q/A/QC, APPENDIX 1 TABLE 1.1)		Y	PERFORM
2. INSPECTION TASKS AFTER DECK PLACEMENT (PERFORM THE QA TASKS LISTED IN SDI Q/A/QC, APPENDIX 1 TABLE 1.2)		Y	PERFORM
COLD-FORMED STEEL DECK WELDING:			
1. INSPECTION TASKS PRIOR TO WELDING (OBSERVE THE QA TASKS LISTED IN SDI Q/A/QC, APPENDIX 1 TABLE 1.3)		Y	OBSERVE
2. INSPECTION TASKS DURING WELDING (OBSERVE THE QA TASKS LISTED IN SDI Q/A/QC, APPENDIX 1 TABLE 1.4)		Y	OBSERVE
3. INSPECTION TASKS AFTER WELDING (PERFORM THE QA TASKS LISTED IN SDI Q/A/QC, APPENDIX 1 TABLE 1.5)		Y	PERFORM
COLD-FORMED STEEL DECK MECHANICAL FASTENING:	SHOP* AND FIELD INSPECTION		
1. INSPECTION TASKS PRIOR TO MECHANICAL FASTENING (OBSERVE THE QA TASKS LISTED IN SDI Q/A/QC, APPENDIX 1 TABLE 1.6)		Y	OBSERVE
2. INSPECTION TASKS DURING MECHANICAL FASTENING (OBSERVE THE QA TASKS LISTED IN SDI Q/A/QC, APPENDIX 1 TABLE 1.7)		Y	OBSERVE
3. INSPECTION TASKS AFTER MECHANICAL FASTENING (PERFORM THE QA TASKS LISTED IN SDI Q/A/QC, APPENDIX 1 TABLE 1.8)		Y	PERFORM

SCHEDULE OF SPECIAL INSPECTIONS			
MATERIAL /ACTIVITY	SERVICE	APPLICABLE TO THIS PROJECT	
		Y/N	EXTENT
1705.3 CONCRETE CONSTRUCTION			
INSPECTION AND PLACEMENT VERIFICATION OF REINFORCING STEEL	SHOP* AND FIELD INSPECTION	Y	PERIODIC
INSPECTION OF ANCHORS CAST IN CONCRETE.	SHOP* AND FIELD INSPECTION	Y	PERIODIC
INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS PER RESEARCH REPORTS, OR IF NO SPECIFIC REQUIREMENTS ARE PROVIDED, REQUIREMENTS SHALL BE PROVIDED BY THE REGISTERED DESIGN PROFESSIONAL, AND APPROVED BY THE BUILDING OFFICIAL, INCLUDING VERIFICATION OF ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE DIMENSIONS, HOLE-CLEANING PROCEDURES, ANCHOR SPACING, EDGE DISTANCES, CONCRETE MINIMUM THICKNESS, ANCHOR EMBEDMENT AND TIGHTENING TORQUE	FIELD INSPECTION	Y	PERIODIC OR AS REQUIRED BY THE RESEARCH REPORT ISSUED BY AN APPROVED SOURCE
1. ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR UPWARD-INCLINED ORIENTATION THAT RESIST SUSTAINED TENSION LOADS.		Y	CONTINUOUS
2. MECHANICAL AND ADHESIVE ANCHORS OTHER THAN THOSE DEFINED IN NOTE 1.		Y	PERIODIC
VERIFY USE OF APPROVED DESIGN MIX	SHOP* AND FIELD INSPECTION	Y	PERIODIC
PRIOR TO PLACEMENT, FRESH CONCRETE SAMPLING, PERFORM SLUMP AND AIR CONTENT TESTS AND DETERMINE TEMPERATURE OF CONCRETE AND PERFORM ANY OTHER TESTS/AS SPECIFIED IN CONSTRUCTION DOCUMENTS.	SHOP* AND FIELD INSPECTION	Y	CONTINUOUS
INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	SHOP* AND FIELD INSPECTION	Y	CONTINUOUS
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	SHOP* AND FIELD INSPECTION	Y	PERIODIC
ERECTION OF PRECAST CONCRETE MEMBERS		Y	PERIODIC
VERIFICATION OF IN-SITU CONCRETE STRENGTH PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS	FIELD TESTING AND REVIEW OF LABORATORY REPORTS	Y	PERIODIC
INSPECTION OF FORMWORK FOR SHAPE, LINES, LOCATION AND DIMENSIONS	FIELD INSPECTION	Y	PERIODIC
CONCRETE STRENGTH TESTING AND VERIFICATION OF COMPLIANCE WITH CONSTRUCTION DOCUMENTS	FIELD TESTING AND REVIEW OF LABORATORY REPORTS	Y	PERIODIC
1705.4 MASONRY CONSTRUCTION			
QUALITY ASSURANCE:			
1. VERIFY COMPLIANCE WITH APPROVED SUBMITTALS	SUBMITTAL REVIEW	Y	PRIOR TO CONSTRUCTION
2. VERIFICATION OF FM AND FAAC PRIOR TO CONSTRUCTION	TESTING BY UNIT STRENGTH METHOD OR PRISM TEST METHOD	Y	PRIOR TO CONSTRUCTION
3. VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY (SEE VISI OF SELF-CONSOLIDATING GROUT AS DELIVERED TO THE PROJECT	TESTING BY UNIT STRENGTH METHOD OR PRISM TEST METHOD	Y	PERIODIC
AS MASONRY CONSTRUCTION BEGINS:			
1. VERIFY PROPORTIONS OF SITE PREPARED MORTAR	FIELD INSPECTION	Y	PERIODIC
2. VERIFY GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR RODS	FIELD INSPECTION	Y	PERIODIC
3. SAMPLE PANEL CONSTRUCTION	FIELD INSPECTION	N	LEVEL 2 - PERIODIC LEVEL 3 - CONTINUOUS
PRIOR TO GROUTING:			
1. VERIFY GROUT SPACE IS CLEAN PRIOR TO GROUTING	FIELD INSPECTION	Y	LEVEL 2 - PERIODIC LEVEL 3 - CONTINUOUS
2. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS	FIELD INSPECTION	Y	LEVEL 2 - PERIODIC LEVEL 3 - CONTINUOUS
3. VERIFY PROPORTIONS OF SITE PREPARED GROUT	FIELD INSPECTION	Y	PERIODIC
VERIFY COMPLIANCE OF THE FOLLOWING DURING CONSTRUCTION:			
1. MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS	FIELD INSPECTION	Y	PERIODIC
2. PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION	FIELD INSPECTION	Y	PERIODIC
3. SIZE AND LOCATION OF STRUCTURAL MEMBERS	FIELD INSPECTION	Y	PERIODIC
4. TYPE, SIZE, LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION	FIELD INSPECTION	Y	LEVEL 2 - PERIODIC LEVEL 3 - CONTINUOUS
5. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F)	FIELD INSPECTION	Y	PERIODIC
6. PLACEMENT OF GROUT	FIELD INSPECTION	Y	CONTINUOUS
7. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	FIELD INSPECTION	Y	LEVEL 2 - PERIODIC LEVEL 3 - CONTINUOUS
1705.6 SOILS			
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	FIELD INSPECTION	Y	PERIODIC
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	FIELD INSPECTION	Y	PERIODIC
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	FIELD INSPECTION	Y	PERIODIC
VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL	FIELD INSPECTION	Y	CONTINUOUS
PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	FIELD INSPECTION	Y	PERIODIC
NOTES: THE INSPECTION AND TESTING AGENT(S) SHALL BE ENGAGED BY THE OWNER OR THE OWNER'S AGENT, AND NOT BY THE CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE INSPECTED OR TESTED. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE BUILDING OFFICIAL PRIOR TO COMMENCING WORK. THE QUALIFICATIONS OF THE SPECIAL INSPECTOR(S) FOR SPECIAL INSPECTIONS MAY BE SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL AND/OR THE DESIGN PROFESSIONAL. (1) SHOP INSPECTIONS OF FABRICATED ITEMS ARE NOT REQUIRED WHERE THE FABRICATOR IS APPROVED IN ACCORDANCE WITH IBC SECTION 1704.2.5.1 AND LISTED IN ACTIVITY 1709.2. OBSERVE: OBSERVE ON A RANDOM BASIS, OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. PERFORM: THESE TASKS MUST BE PERFORMED FOR EACH WELDED JOINT, BOLTED CONNECTION, OR STEEL ELEMENT			

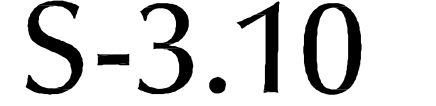


**GOODMAN
GIANNAVOLA
HINES
ENGINEERS**
311 14th STREET
SUITE 2
ATLANTA, GA 30318
GGHEngineers.com

EXP 06/2022

© 2021 THESE DOCUMENTS REMAIN THE PROPERTY OF THE ARCHITECT AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION.

: 5 2 10



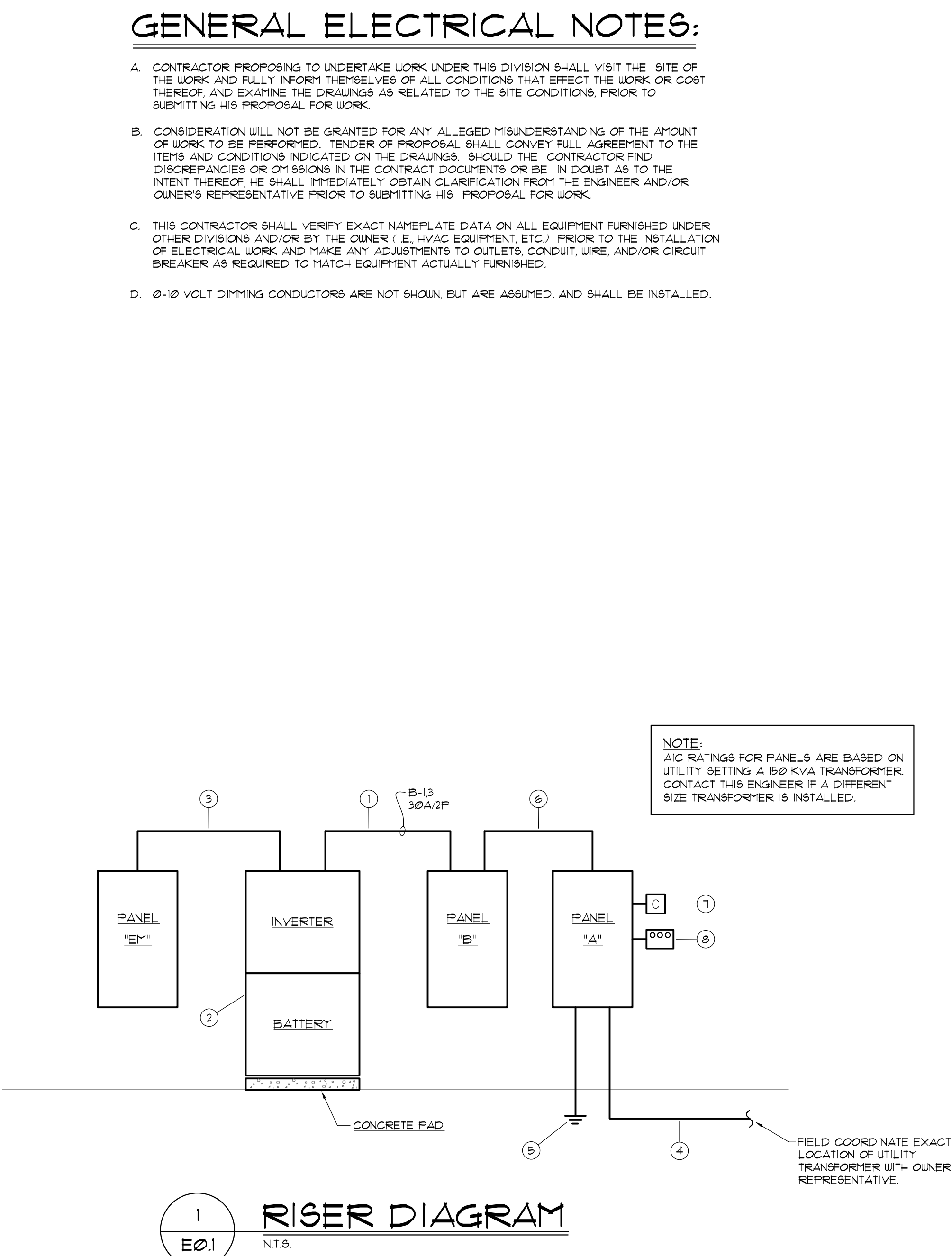
LIGHTING FIXTURE SCHEDULE *					
REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT NECESSARILY BE REFLECTED IN CATALOG NUMBER AND/OR DESCRIPTION IN THIS SCHEDULE.					
MARK	DESCRIPTION	MOUNTING	VOLTS	LAMPS	REMARKS
A	BEACON * VP9-36L-80-3KT-3-UNV-DBT WITH BEACON * 666-B-14-40-B-1-B3-DBT (POLE)	14'-0" POLE	208	FURNISHED WITH FIXTURE	SINGLE
B	(2) BEACON * VP9-36L-80-3KT-3-UNV-DBT WITH BEACON * 666-B-14-40-B-1-B3-DBT (POLE)	14'-0" POLE	208	FURNISHED WITH FIXTURE	DOUBLE
D	(2) KM * KFL3-60L-135-3KT-1UF-UNV-8-DB-8D WITH BEACON * 666-B-16-40-B-1A-DBT w/666-21-MB1 (POLE)	16'-0" POLE	120	FURNISHED WITH FIXTURE	DOUBLE 0-10 VOLT DIMMING
E	BEACON * 6RT2-100-3KT-5U-UNV-/COORDINATE FINISH WITH ARCHITECT-LD6	SHORT PENDANT	120	FURNISHED WITH FIXTURE	---
F	KM * KFL3-60L-135-1UF-UNV-/COORDINATE FINISH WITH ARCHITECT-LUM	WALL	120	FURNISHED WITH FIXTURE	---
G	HUBBELL * LXEM-4-35-ML-RFA-ED-U	SURFACE	120	FURNISHED WITH FIXTURE	---
H	ISOLITE * MAX20-AC-R-1-UH-MTE8	WALL	120	FURNISHED WITH FIXTURE	COORDINATE INSTALLATION WITH ARCHITECT.
J	LITHONIA * ELM2	WALL	120	FURNISHED WITH FIXTURE	---
K	LUMENPOD * LUFL-30K-10-5-24VDC	HANDRAIL	24 VOLT	FURNISHED WITH FIXTURE	---
L	BEACON * TRV-D-24NB-55-KT-13-UNV-DBT-FEC	WALL	120	FURNISHED WITH FIXTURE	PHOTOCELL BUTTON

* EQUALS BY LITHONIA, LIGHTOLIER, DAY-BRITE, WILLIAMS, METALUX, COLUMBIA, ELITE, DUAL-LITE, AND EMER-LITE WILL BE ACCEPTABLE.

PANELBOARD A SCHEDULE																	
VOLTAGE: 120/208V, 3 PH, 4 W				MAINS: 4000A MAIN BREAKER				MOUNTING: SURFACE				REMARKS:					
BUS SIZE: 4000A				TOTAL LOAD: 105.40 KVA				DIVERSED LOAD:				FAULT DUTY: 25,000 AIC					
NO	SERVES	NOTES	LOAD (KVA)				PHASE	ERROR	LOAD (KVA)				NOTES	SERVES	NO		
			L1G	NPH	HTG	A/C	L1G	MISC	HTG	P	A	B	C	L1G			
1	STAGE LIGHT OUTLETS	① 1.0	1.0				2.0		1		3	1.00			LIGHTNING/SURGE	2	
3	STAGE LIGHT OUTLETS	① 1.0	1.0				2.0		1		3	1.00			LIGHTNING/SURGE	4	
5	STAGE LIGHT OUTLETS	① 1.0	1.0				2.0		1		3	1.00			LIGHTNING/SURGE	6	
7	STAGE LIGHT OUTLETS	① 1.0	1.0				2.0		1		3	1.00	3.00		SPARE	8	
9	STAGE POWER BOX	① 1.0	1.0				2.0		1		3	1.00	3.00		SPARE	10	
11	STAGE POWER BOX	① 1.0	1.0				2.0		1		3	1.00	3.00		SPARE	12	
13	STAGE POWER BOX	① 1.0	1.0				2.0		1		3	1.00	3.00		SPARE	14	
15	STAGE POWER BOX	① 1.0	1.0				2.0		1		3	1.00	3.00		SPARE	16	
17	STAGE POWER BOX	① 1.0	1.0				2.0		1		3	1.00	3.00		SPARE	18	
19	STAGE POWER BOX	① 1.0	1.0				2.0		1		3	1.00	3.00		SPARE	20	
21	STAGE POWER BOX	① 1.0	1.0				2.0		1		3	1.00	3.00		SPARE	22	
23	STAGE POWER BOX	① 1.0	1.0				2.0		1		3	1.00	3.00		SPARE	24	
25	STORAGE/DATE/ELEC. RM	① 0.4	0.4				2.0		1		3	1.00	3.00		SPARE	26	
27	STAGE BACK WALL	① 1.0	1.0				2.0		1		3	1.00	3.00		SPARE	28	
29	STAGE BACK WALL	① 1.0	1.0				2.0		1		3	1.00	3.00		SPARE	30	
31	STAGE BACK WALL	① 1.0	1.0				2.0		1		3	1.00	3.00		SPARE	32	
33	STAGE BACK WALL	① 1.0	1.0				2.0		1		3	1.00	3.00		SPARE	34	
35	PATIO OUTLETS	① 0.8	0.8				2.0		1		3	1.00	3.00		SPARE	36	
37	BACK OF SEATING OUTLETS	① 1.0	1.0				2.0		1		3	1.00	3.00		SPARE	38	
39	BACK OF SEATING OUTLETS	① 1.0	1.0				2.0		1		3	1.00	3.00		SPARE	40	
41	STAGE LIGHT OUTLETS	① 1.0	1.0				2.0		1		3	1.00	3.00		SPARE	42	
LOAD SUMMARY																	
LIGHTING: 13.4 KVA A/C: 0.0 KVA																	
RECEPTACLE: 14.0 KVA HEATING: 0.0 KVA																	
MOTOR: 0.0 KVA MISC: 0.0 KVA																	
NOTES:																	
① G.F.C.I. TYPE BREAKER.																	
② ROUTE CIRCUIT THRU "SHOE BOX LIGHTING CONTACTOR". REFER TO RISER DIAGRAM.																	

PANELBOARD B SCHEDULE																					
VOLTAGE: 120/208V, 3 PH, 4 W				MAINS: 4000A M.L.O.				MOUNTING: SURFACE				REMARKS:									
BUS SIZE: 4000A				TOTAL LOAD: 2.00 KVA				DIVERSED LOAD:				FAULT DUTY: 25,000 AIC									
NO	SERVES	NOTES	LOAD (KVA)				PHASE				ERROR				LOAD (KVA)				NOTES	SERVES	NO
			LTG	NCHT	HTG	AIC	LTG	NCHT	HTG	AIC	A	B	C	PH	MISC	HTG	AIC	LTG			
1	INVERTER INPUT		2.0					3.0	2				1	2.0						SPARE	2
3	INVERTER INPUT	1											1	2.0						SPARE	4
5	SPACE													1	2.0					SPARE	6
7	SPACE														3.0					SPARE	8
9	SPACE																			SPARE	10
11	SPACE																			SPARE	12
13	SPACE																			SPARE	14
15	SPACE																			SPARE	16
17	SPACE																			SPARE	18
19	SPACE																			SPARE	20
21	SPACE																			SPARE	22
23	SPACE																			SPARE	24
LOAD SUMMARY				LIGHTING: 2.0 KVA				A/C: 0.0 KVA													
				RECEPTACLE: 0.0 KVA				HEATING: 0.0 KVA													
				MOTOR: 0.0 KVA				MISC: 0.0 KVA													
NOTES:																					

PANELBOARD EM SCHEDULE																								
VOLTAGE: 120/240V, 1 PH, 3 W					MAINS: 600A M.L.O.					MOUNTING: SURFACE					REMARKS:									
BUS SIZE: 600A					TOTAL LOAD: 1.00 KVA					DIVERSED LOAD: 1.00 KVA					FAULT DUTY: 25,000 AIC					---				
NO	SERVES	NOTE	LOAD (KVA)				ERROR		PHASE	ERROR		LOAD (KVA)				NOTE	SERVES	NO						
			LIT	NEHT	MISC	A/C	HTG	MISC		F	NEHT	MISC	HTG	A/C	HTG				NEHT	LIT				
1	STAGE LIGHTING		0.2					20	1		--						SPACE	2						
3	PERIMETER STAGE LIT.		0.1					20	1		--						SPACE	4						
5	EXITS 4 WALL PACK		0.2					20	1		--						SPACE	6						
7	SPACE							--	1		--						SPACE	8						
9	SPACE							--	1		--						SPACE	10						
11	SPACE							--	1		--						SPACE	12						
LOAD SUMMARY					LIGHTING: 1.1 KVA					A/C: 0.0 KVA					REMARKS:									
					RECEPTACLE: 0.0 KVA					HEATING: 0.0 KVA														
					MOTOR: 0.0 KVA					MISC: 0.0 KVA														
NOTES:																								



RISER LEGEND

- 2 #0 4 1 #0 GROUND - 3/4" C.
- DUAL LITE LON-D SERIES INVERTER, D-208-21-S-120/208-0-30-01-50 MINUTE BATTERY (BASIS OF DESIGN)
- 3 #0 4 1 #0 GROUND - 3/4" C.
- 4 #00 MCH - 3 1/2" C. TO UTILITY TRANSFORMER
- 1 #0 GROUND - 3/4" C. TO GROUND RODS, BUILDING STEEL, COLD WATER PIPING, AND STRUCTURAL REBAR.
- 4 #00 MCH 4 1 1/2 GROUND - 3 1/2" C.
- INSTALL A 6X (6) POLE LIGHTING CONTACTOR IN A NEMA ONE ENCLOSURE. CONTROL CONTACTOR WITH A ROOF MOUNTED PHOTOCELL. CONTACTOR SHALL CONTROL "SHOE BOX" TYPE WALKWAY LIGHTING FIXTURES.
- CURRENT TECHNOLOGY * T63-100-208-3Y-MN-1-M1 LIGHTING/SURGE PROTECTION BASIS OF DESIGN. EQUALS BY DITEK.

SYMBOL LEGEND		
SYMBOL	DESCRIPTION	MOUNTING HEIGHT
O	DOWNLIGHT	AS NOTED
HO	LIGHT FIXTURE - WALL MOUNTED	
□	2' X 4' LIGHT FIXTURE	
●	2' X 4' LIGHT FIXTURE ON EMERGENCY CIRCUIT	
□	1' X 4' LIGHT FIXTURE	
■	1' X 4' LIGHT FIXTURE ON EMERGENCY CIRCUIT	
⊙	EXIT SIGN - CEILING MOUNTED DARKENED SECTION(S) OF SYMBOLS INDICATE FACES OF FIXTURE	
HO	EXIT SIGN - WALL MOUNTED DARKENED SECTION(S) OF SYMBOLS INDICATE FACES OF FIXTURE	
⊙	EXIT SIGN - CEILING MOUNTED DARKENED SECTION(S) OF SYMBOLS INDICATE FACES OF FIXTURE	
HO	EXIT SIGN - WALL MOUNTED DARKENED SECTION(S) OF SYMBOLS INDICATE FACES OF FIXTURE	
SK3	KEY OPERATED THREE-WAY SWITCH	48"
S	8P.S.T. LIGHT SWITCH	48"
⊙	LOW VOLTAGE DUAL TECHNOLOGY 360 DEGREE CEILING MOUNTED OCCUPANCY SENSOR (HUBBELL * OFN-DT-2000 BASIS OF DESIGN)	----
⊙	WALL MOUNTED SENSOR SWITCH DUAL TECHNOLOGY (HUBBELL * LHM7B-1, BASIS OF DESIGN) (SET TO MANUAL 'ON', AUTO 'OFF', 5 MIN. DELAY)	48"
⊙	LOW VOLTAGE DUAL TECHNOLOGY 360 DEGREE SURFACE MOUNTED, INDICATOR OCCUPANCY SENSOR FOR AREAS WHERE MOUNTING HEIGHT IS 7'-0" OR HIGHER (HUBBELL * USP-SM-24V SENSOR USP-L360-UH LENS, BASIS OF DESIGN)	48"
HO	LINE VOLTAGE WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH 0-10 VOLT SLIDE DIMMER (SET TO MANUAL 'ON', AUTO 'OFF', 5 MIN. DELAY)	48"
⊙	POWER PACK INSTALLED ABOVE CEILING (HUBBELL * LUPP BASIS OF DESIGN)	----
D	0-10 VOLT DIMMER (INCLUDE POWER PACK IF LOAD EXCEEDS RATING OF DIMMER)	48"
S3	THREE-WAY LIGHT SWITCH	48"
S4	FOUR-WAY LIGHT SWITCH	48"
SK	KEY OPERATED LIGHT SWITCH	48"
⊙	SINGLE RECEPTACLE OUTLET	18"
⊙	DUPLEX RECEPTACLE OUTLET	18"
⊙U	DUPLEX RECEPTACLE OUTLET WITH TWO (2) USB PORTS	18"
⊙	QUAD RECEPTACLE OUTLET	18"
⊙U	QUAD RECEPTACLE OUTLET WITH FOUR (4) USB PORTS	18"
⊙	DUPLEX RECEPTACLE MOUNTED 6" ABOVE BACKSPLASH	----
⊙U	DUPLEX RECEPTACLE MOUNTED 6" ABOVE BACKSPLASH WITH TWO (2) USB PORTS	----
⊙	JUNCTION BOX W/COVERPLATE - ABOVE CEILING	----
HO	JUNCTION BOX W/COVERPLATE - WALL MOUNTED	----
⊙	1" C. BELOW SLAB TO ACCOMMODATE DATA CABLES	----
HO	SPECIAL OUTLET (AS NOTED)	----
⊙	PANELBOARD 480V	----
⊙	PANELBOARD 240V	----
⊙	DISCONNECT SWITCH - HORSEPOWER RATED	----
⊙	MOTOR - FRACTIONAL HORSEPOWER	----
⊙	MOTOR - NUMERAL INDICATES HORSEPOWER	----
⊙	DATA OUTLET WITH 1" C. STUBBED INTO ELEC. / DATA ROOM	18"
⊙	4X4 JUNCTION BOX WITH SINGLE GANG RING AND 1 1/2" C. STUBBED INTO ELEC. / DATA ROOM	----
⊙	FIRE ALARM PULL STATION	----
⊙	FIRE ALARM SPEAKER / STROBE (WALL MOUNTED)	----
⊙	FIRE ALARM SPEAKER (WALL MOUNTED)	----
⊙	FIRE ALARM STROBE (CEILING MOUNTED)	----
⊙	CEILING MOUNTED FIRE ALARM SPEAKER / STROBE	----
⊙	SMOKE DETECTOR - CEILING MOUNTED OR SURFACE MOUNTED	----
⊙	CARBON MONOXIDE DETECTOR - CEILING MOUNTED	----
⊙	WEATHER PROOF HORN	----
⊙	SMOKE DETECTOR - DUST MOUNTED	----
⊙	HEAT DETECTOR	----
⊙	SPRINKLER FLOW SWITCH	----
⊙	SPRINKLER TAMPER SWITCH	----
⊙	DOOR HOLD DEVICE (WALL MOUNTED)	----
⊙	DOOR HOLD DEVICE (FLOOR MOUNTED)	----
⊙	PRESSURE SWITCH	----
⊙	CONDUIT CONCEALED IN WALLS, ABOVE CEILING, OR EXPOSED WHERE NO CEILING	----
⊙	CONDUIT CONCEALED IN SLAB, IN GROUND, OR UNDER FLOOR	----
⊙	W.P.	WEATHER PROOF
G	GROUND FAULT INTERRUPT	----
UNO.	UNLESS NOTED OTHERWISE	----
NF	NON FUSED	----
SN	SOLID NEUTRAL	----
FACP	FIRE ALARM CONTROL PANEL	----
⊙	HOT	
⊙	NEUTRAL	
⊙	CONDUIT	
NOTE: GROUND CONDUCTOR IS NOT SHOWN, BUT IS ASSUMED, AND SHALL BE INSTALLED.		

Heard County
Amphitheater

River Walk
Franklin, GA
30217

RELEASED FOR CONSTRUCTION

REVISIONS



02-01-2022

Gardner
Spencer
Smith
Tench &
Jarbeau

A Professional Corporation
for the Practice of Architecture

www.gsstj.com

Tower Place
3340 Peachtree Road, N.E.
Suite 1800
Atlanta, Georgia 30326
404.522.8805
404.521.2118 (F)

PROJECT NO.

20104

SHEET TITLE

LEGEND, GENERAL NOTES,
LIGHTING FIXTURE SCHEDULE,
PANELBOARD SCHEDULES,
RISER DIAGRAM

SHEET NO.

E0.1

MATHIS
CONSULTING
ENGINEERS

244 O'DELL ROAD, SUITE 6
GRIFFIN, GEORGIA 30224
TELEPHONE 770-228-6160

2021-055

JKM

[illegible]

Gardner
Spencer
Smith
Tench &
Jarbeau

www.gsstj.com

Tower Place
3340 Peachtree Road, N.E.
Suite 1800
Atlanta, Georgia 30326
404.522.8805
404.521.2118 (F)

PROJECT NO. _____

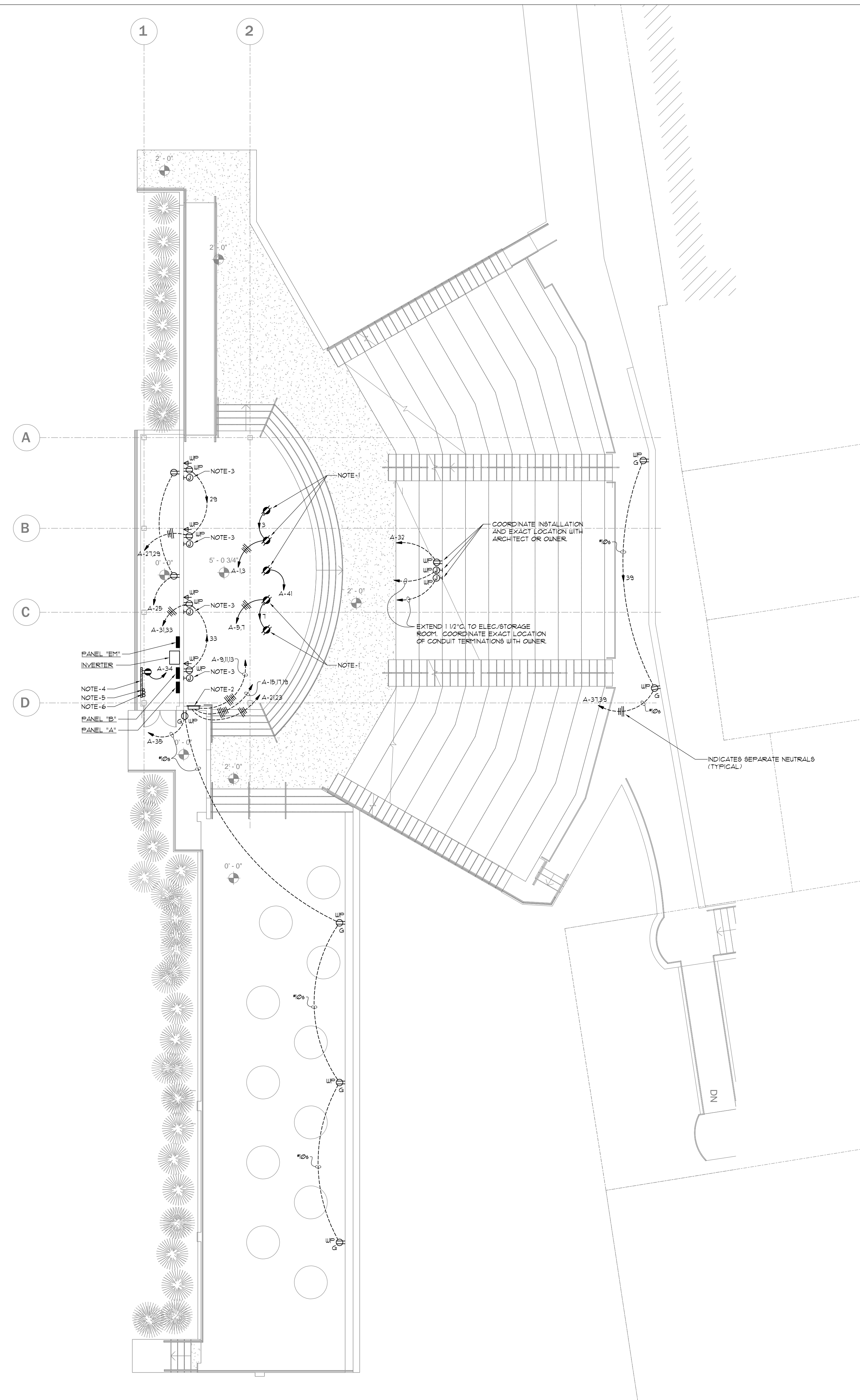
20104

SHEET TITLE

FLOOR PLAN -
POWER

SHEET NO.

E1.1



1
E.I.I. FLOOR PLAN - POWER
SCALE: 1/8" = 1'-0"

MATHIS
CONSULTING
ENGINEERS

244 O'DELL ROAD SUITE 6
GRIFFIN, GEORGIA 30224
TELEPHONE 770-228-8160

2021-055

JKM

[illegible]

Gardner
Spencer
Smith
Tench &
Jarbeau

A Professional Corporation
for the Practice of Architecture

www.gsstj.com

Tower Place
3340 Peachtree Road, N.E.
Suite 1800
Atlanta, Georgia 30326
404.522.8805
404.521.2118 (F)

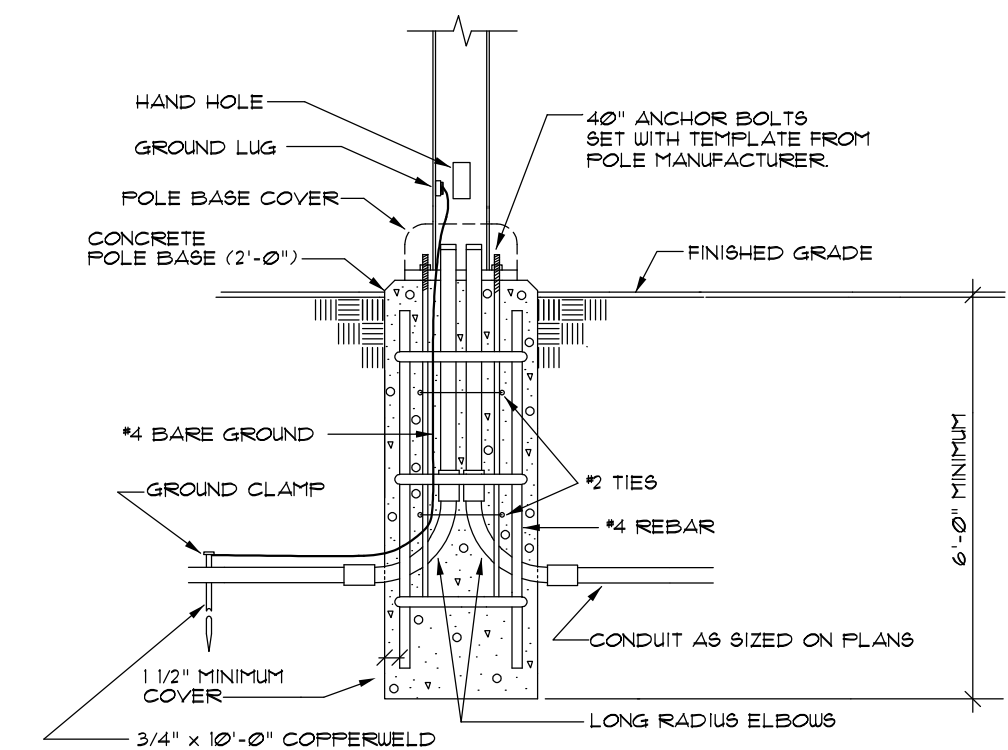
PROJECT NO.

20104

SITE PLAN - LIGHTING

SHEET NO. _____

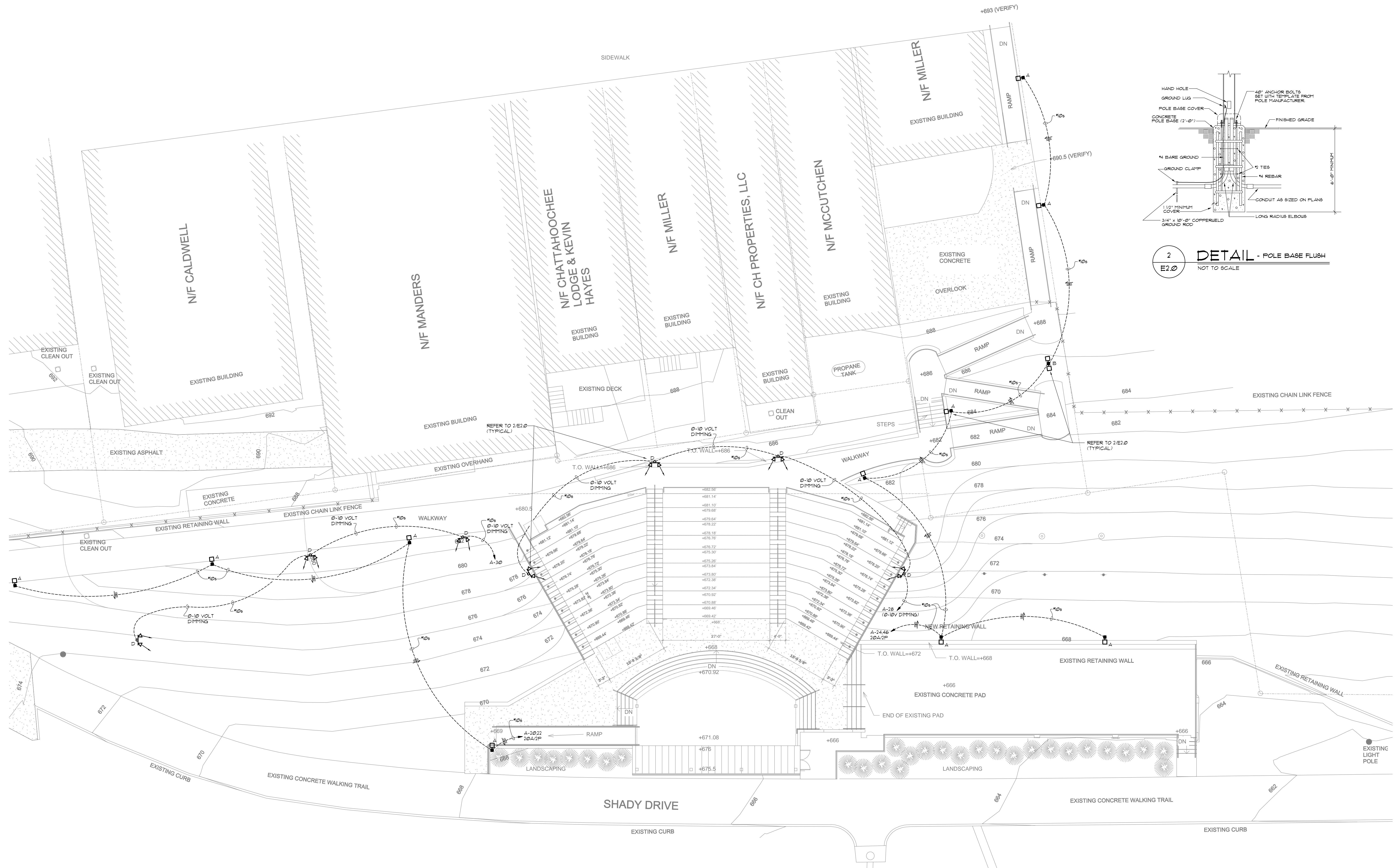
E2.0



2
E2.0

DETAIL - POLE BASE FLUSH

NOT TO SCALE



NOTE:
SUBMIT POINT-TO-POINT FOOTCANDLE
LEVELS FOR THIS PLAN. INCLUDE WITH
SHOP DRAWING SUBMITTAL.

NOTE:
SUBMIT POINT-TO-POINT EMERGENCY
ONLY FOOTCANDLE LEVELS FOR THIS
PLAN. INCLUDE WITH SHOP DRAWING
SUBMITTAL. EMERGENCY FIXTURES ARE
SHOWN ON DRAWING E2.1.

1 SITE PLAN - LIGHTING
E2.0 SCALE: 1" = 10'-0"

MATHIS
CONSULTING
ENGINEERS

244 O'DELL ROAD SUITE 6
GRIFFIN, GEORGIA 30224
TELEPHONE 770-228-8160

2021-055	JKM
----------	-----

[illegible]

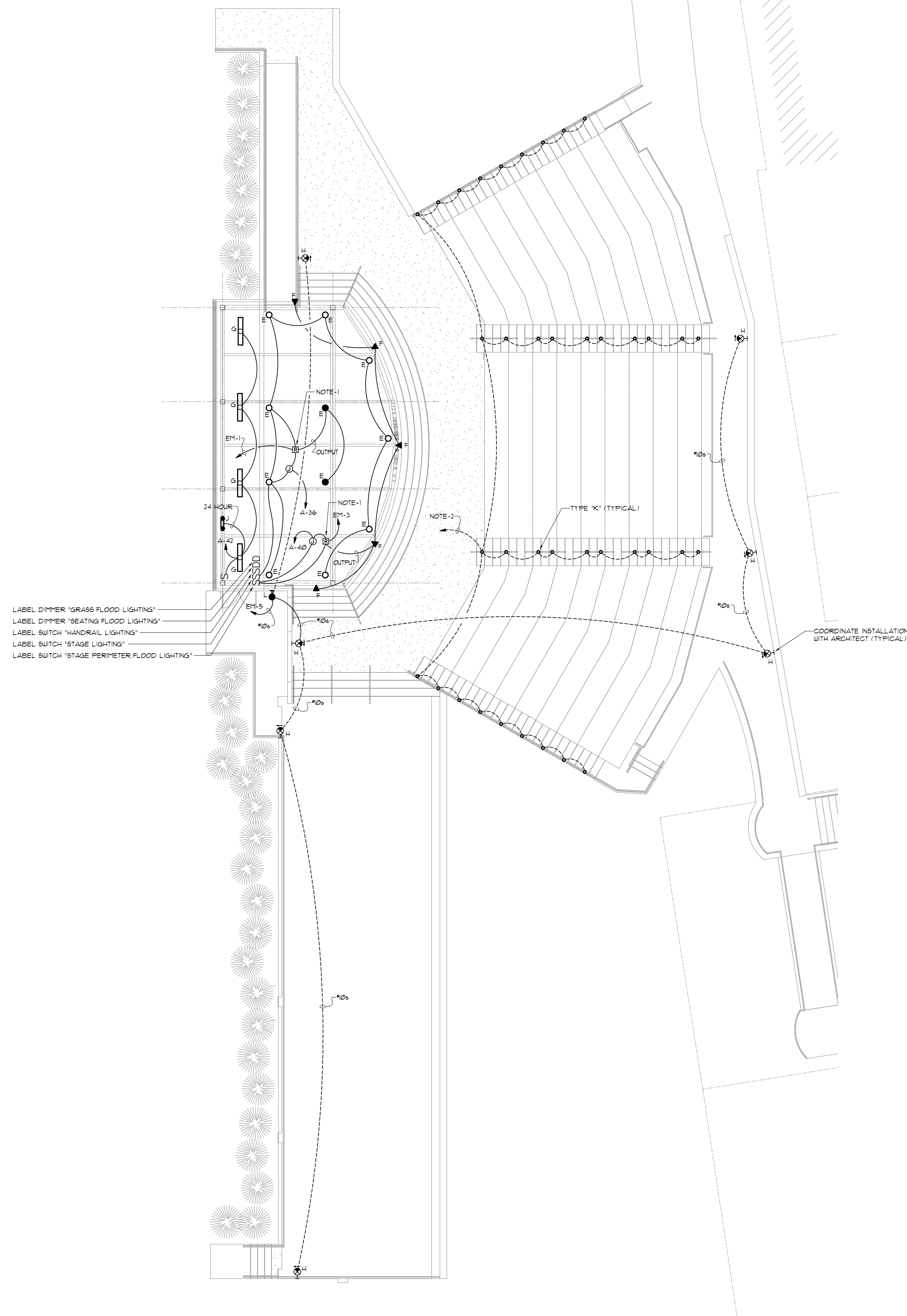
Gardner
Spencer
Smith
Tench &
Jarbeau

A Professional Corporation
for the Practice of Architecture

www.gsstj.com

Tower Place
3340 Peachtree Road, N.E.
Suite 1800
Atlanta, Georgia 30326
404.522.8805
404.521.2118 (F)

20104	PROJECT NO.
FLOOR PLAN - LIGHTING	SHEET TITLE
	SHEET NO.



ALTERNATE:
CONTRACTOR SHALL PROVIDE A DEDUCTIVE ALTERNATE
PRICE FOR DELETING TYPE "K" LIGHTING FIXTURES AND
ASSOCIATED WORK.

ELECTRICAL NOTES

1. INSTALL CONTACTOR IN A NEMA 3R ENCLOSURE. DURING NORMAL CONDITIONS LIGHTING FIXTURES SHALL BE CONTROLLED BY LIGHT SWITCH. DURING AN "OUTAGE" FIXTURES SHALL BE ENERGIZED BY EMERGENCY CIRCUIT. RELAY REQUIRES A CONTROLLED CIRCUIT, MONITORED CIRCUIT, EMERGENCY CIRCUIT, AND OUTPUT CIRCUIT.
2. SERVE FROM DRIVER. LOCATE DRIVER IN ELECTRICAL ROOM. SERVE DRIVER FROM CIRCUIT A-3B.

1
E2.1

FLOOR PLAN - LIGHTING

SCALE: 1/8" = 1'-0"

MATHIS
CONSULTING
ENGINEERS

244 O'DELL ROAD SUITE 6
GRIFFIN, GEORGIA 30224
TELEPHONE 770-228-8160

2021-055

JKM