SITE DEVELOPMENT PLANS FOR

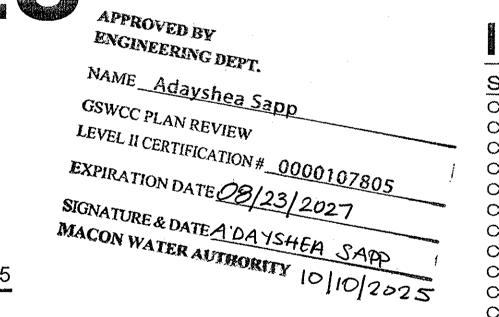


MACON-BIBB PARKS AND RECREATION CENTRAL CITY PARK SOFTBALL FIELD #7 150 WILLIE SMOKIE GLOVER DRIVE

09/26/2025



DATE SIGNED: September 27, 2025

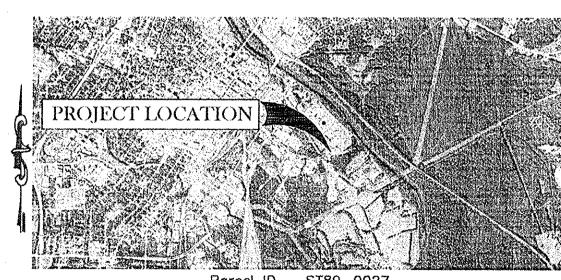


INDEX TO DRAWINGS SHEET NO. DESCRIPTION

SHEET NO.	DESCRIPTION
C-0	TITLE SHEET
C-1	EXISTING CONDITIONS
C-2	DEMOLITION
C-3	OVERALL SITE STAKING AND DIMENSION
C-4	FIELD SITE LAYOUT PLAN - 300' FIELD
C-5	GRADING AND DRAINAGE
C-6	INITIAL EROSION / SEDIMENT CONTROL
C-7	INTERMEDIATE EROSION / SEDIMENT CONTRO
C-8	FINAL EROSION / SEDIMENT CONTROL
C-9	FIELD CONSTRUCTION DETAILS
C-10	FIELD CONSTRUCTION DETAILS CONT.
C-11	FIELD CONSTRUCTION DETAILS CONT.
C-12	FIELD CONSTRUCTION DETAILS CONT.
C-13	FIELD CONSTRUCTION DETAILS CONT.
C-14	EROSION / SEDIMENT CONTROL DETAILS
C-15	SITE DETAILS
C-16	AMENITY DETAILS
C-17	ESPCP NOTES
C-18	ESPCP NOTES
	IRRIGATION PLAN
l-2	IRRIGATION DETAILS
I-3	IRRIGATION DETAILS CONT.

MWA NOTE:

The operation and maintenance of the stormwater management facilities and associated conveyance structures/practices (i.e. detention ponds, pipes not within the public right-of-way, inlets, outlets, riprap, etc.) will be the sole responsibility of the property owner. These facilities and structures shall be kept clear of trash, debris, or any obstructions that would prevent proper function of the drainage system.



Parcel ID - ST89-0027
GPS LOCATION: 32.827939, -83.611513

VICINITY MAP

NARRATIVE

This will be a renovation of the Central City Park Softball Complex - Field #7. This work will encompass the installation of new grass turf fields, improvements to the drainage of the fields, fencing, dugouts, bleachers, irrigation system, and pedestrian circulation enhancements. The disturbed project area is 2.90 acres.

24 HR. CONTACT:

MR. ROBERT WALKER, DIRECTOR OF

MACON-BIBB RECREATION DEPARTMENT
150 WILLIE SMOKE GLOVER DRIVE

MACON, GA. 31201

PHONE: 478-621-6279

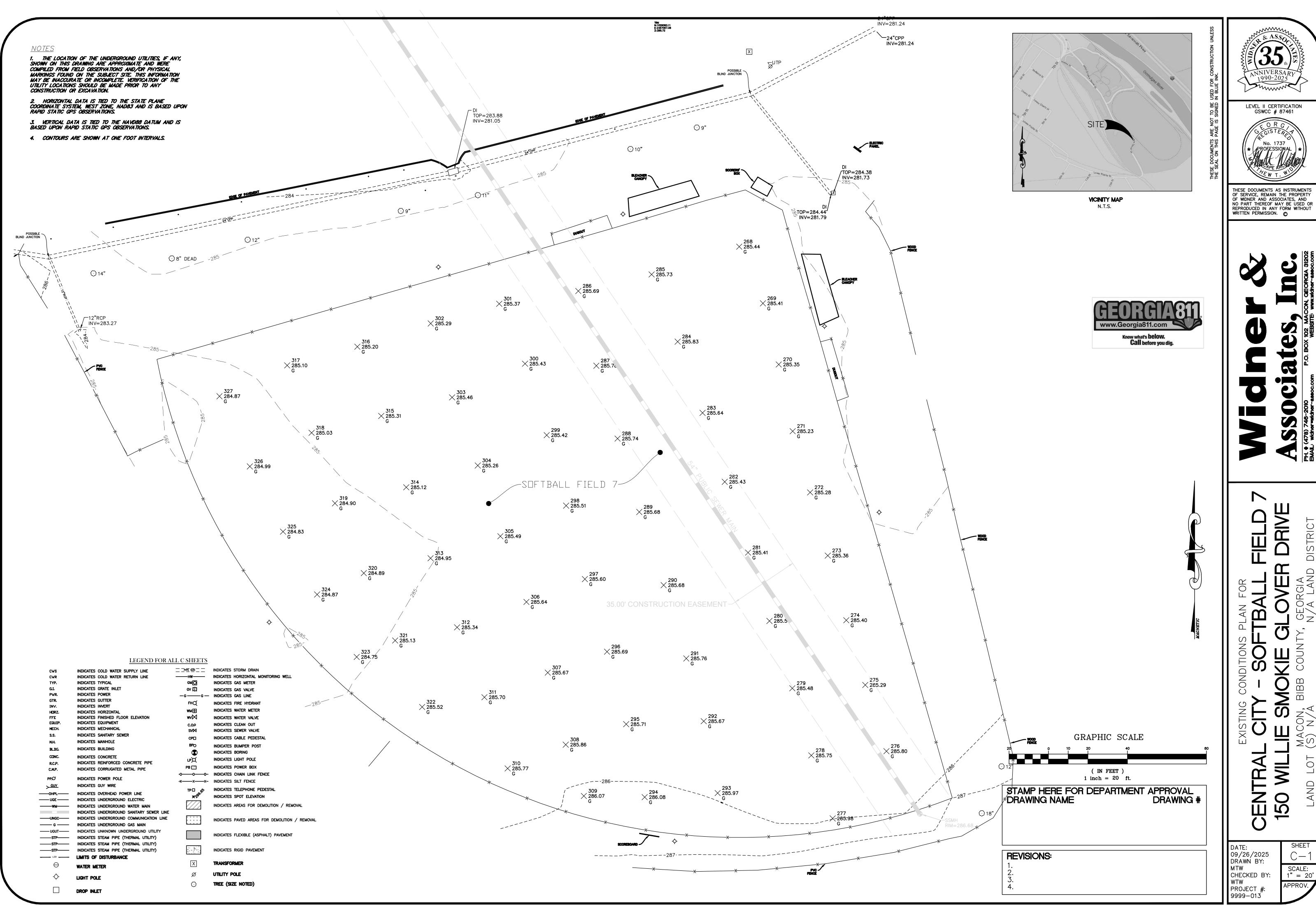
EMAIL: RWALKER2@MACONBIBB.US

PRIMARY PERMITEE:
CONTACT PERSON:
COMPANY:
ADDRESS:
PHONE:
EMAIL:
*CONTRACT TO COMPLETE ABOVE INFO. BEFORE
COMMENCEMENT OF WORK



Wyffartes, Inc.

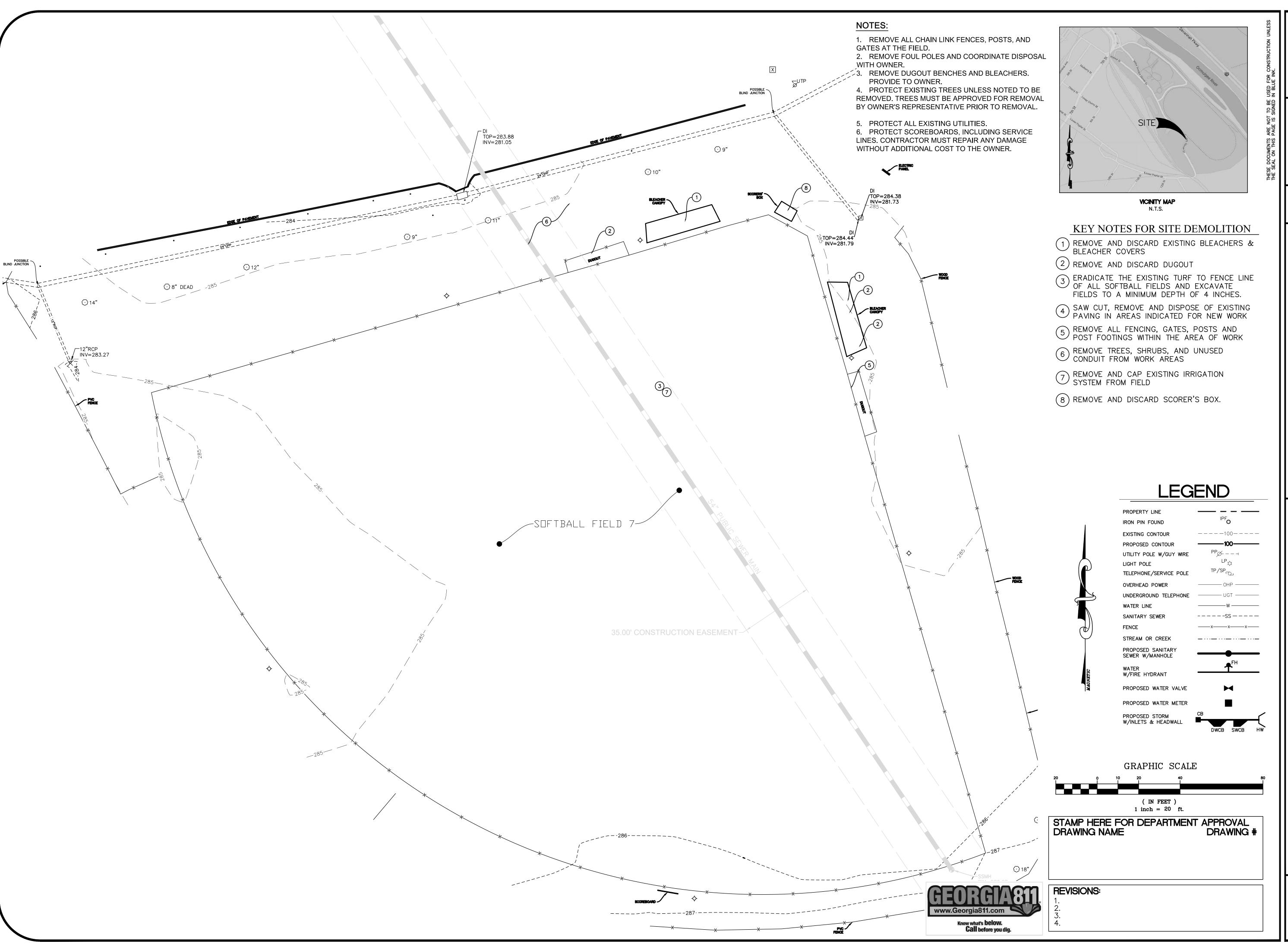




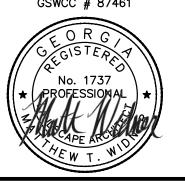
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WTW
PROJECT #:

SCALE: 1" = 20



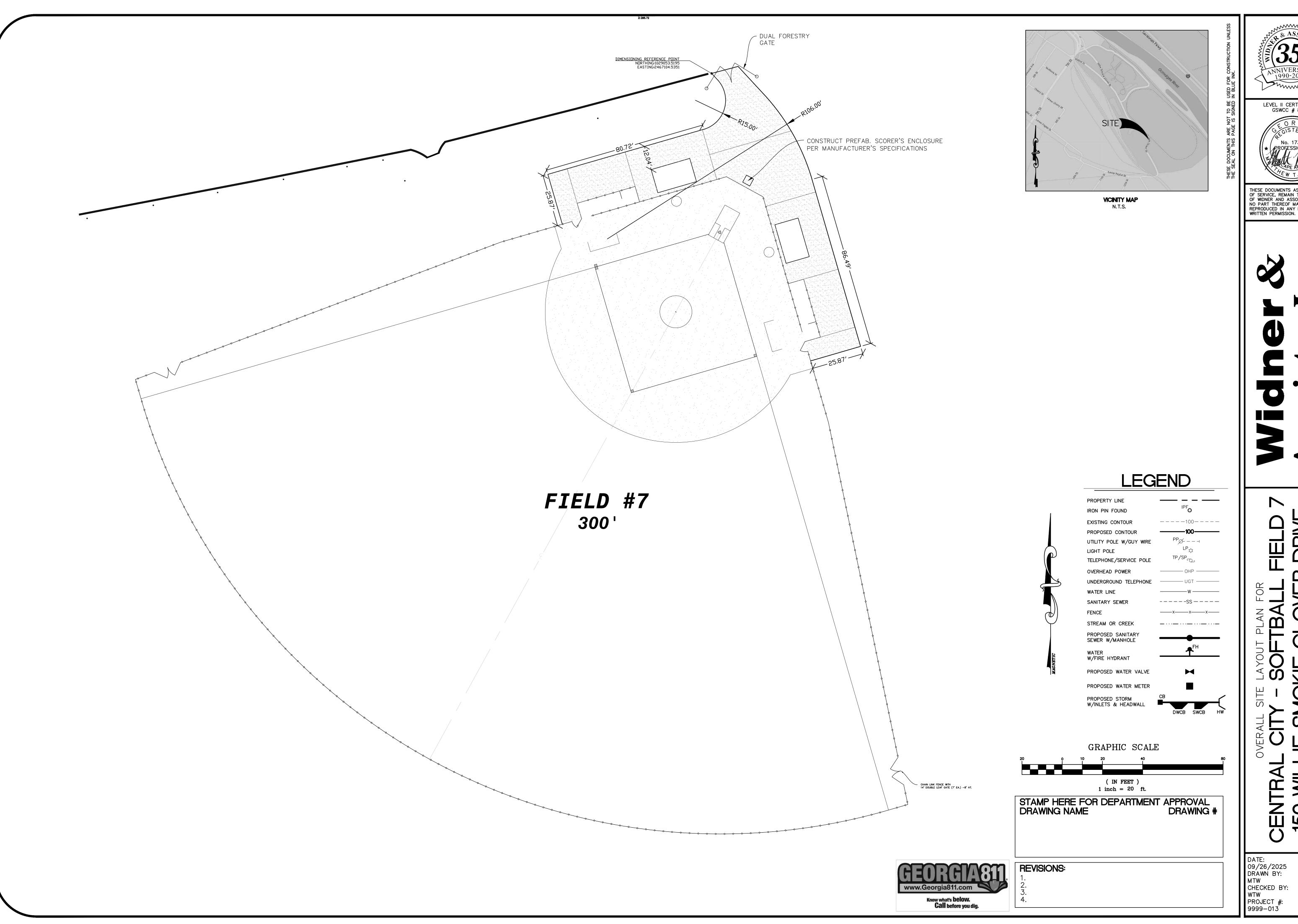




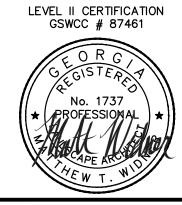
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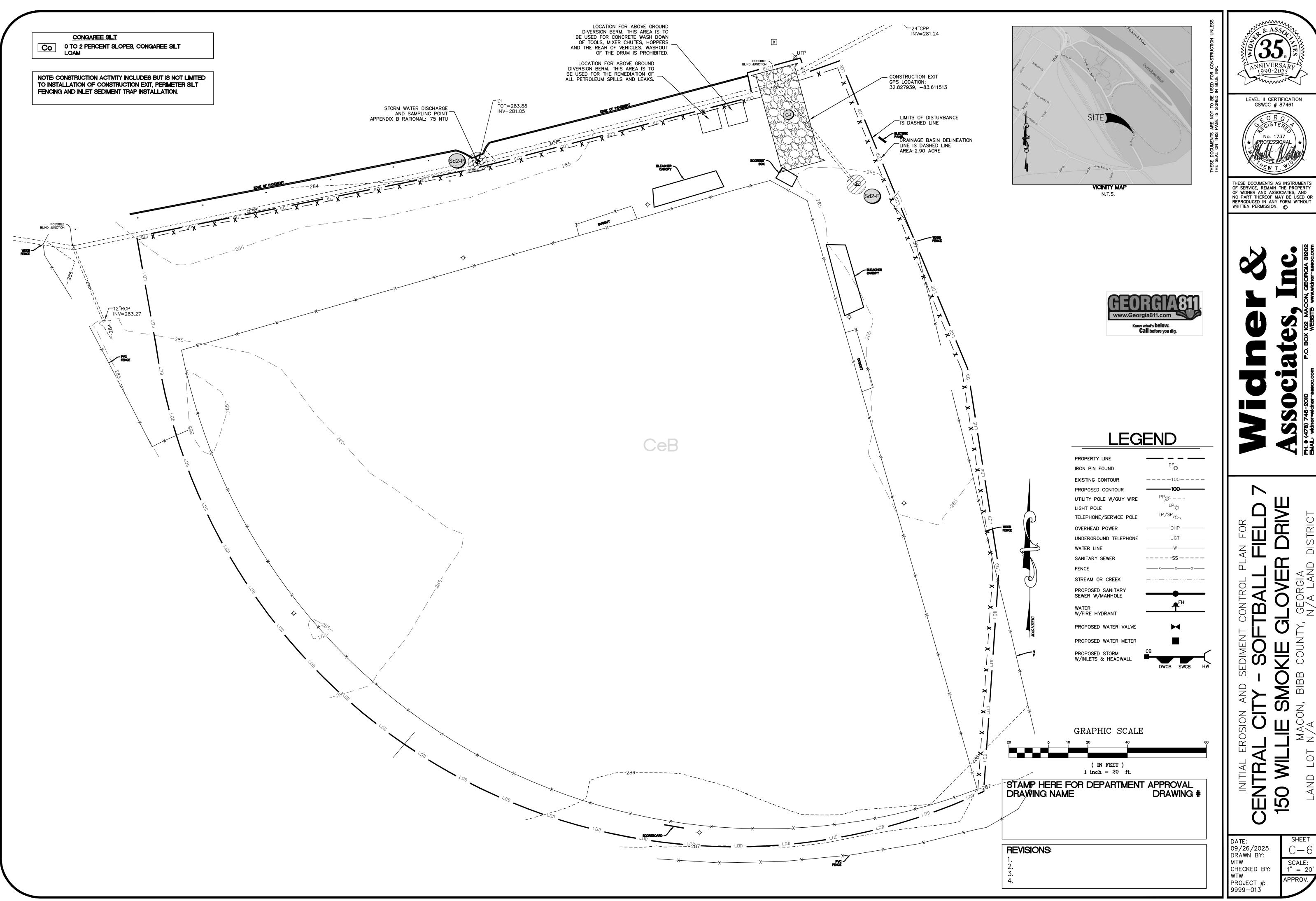




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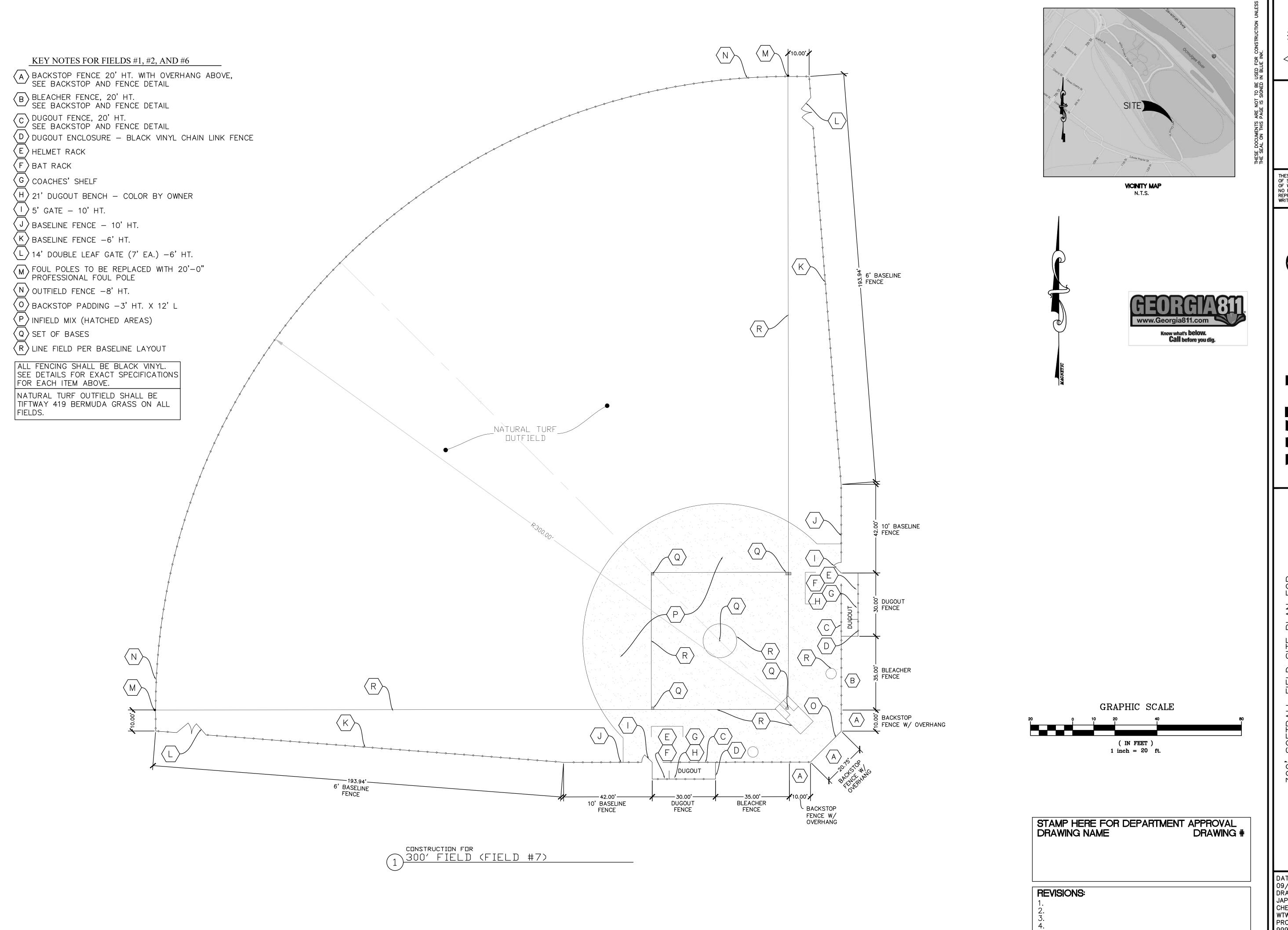
SCALE: 1" = 20'





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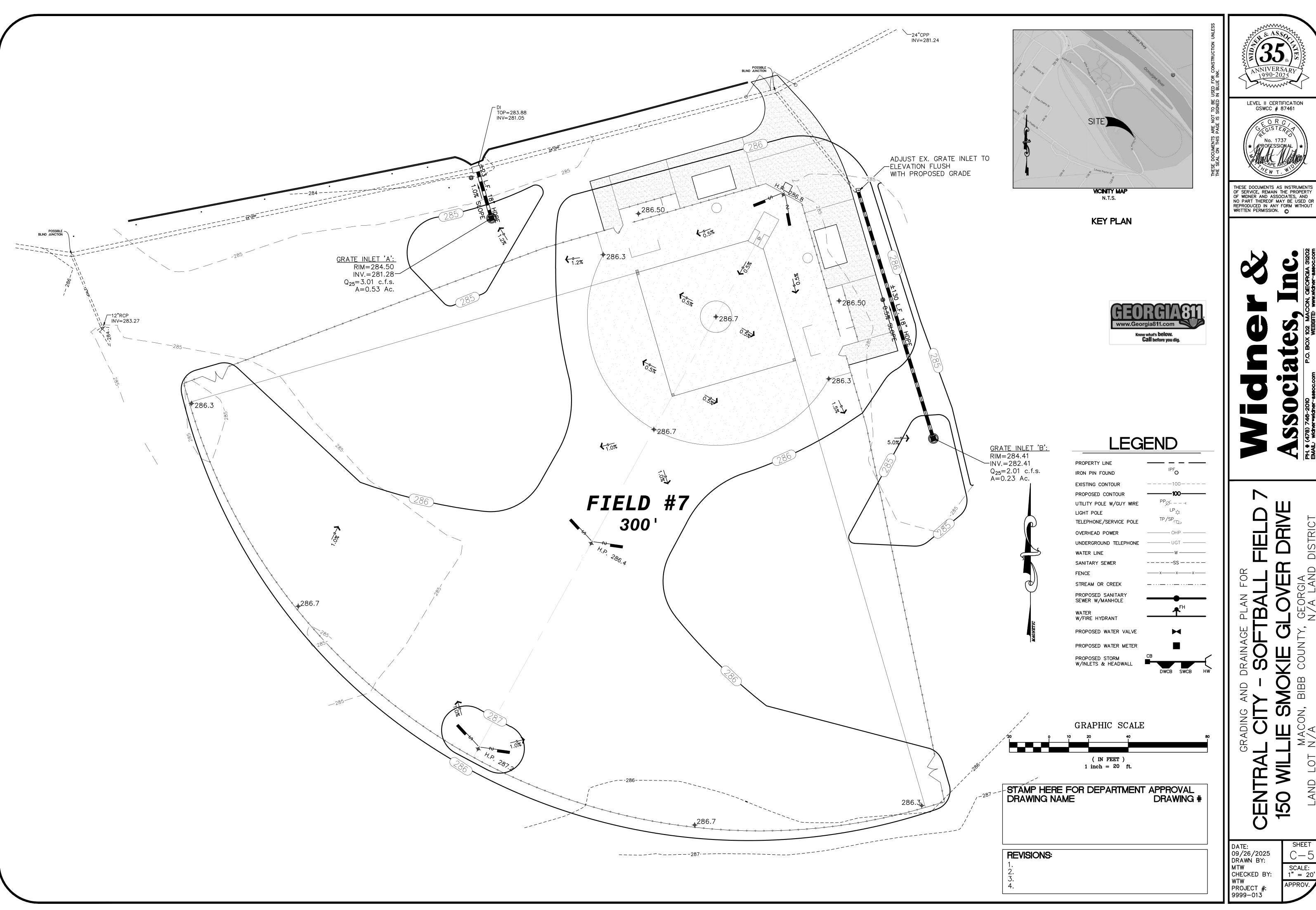
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LEVEL II CERTIFICATION GSWCC # 87461

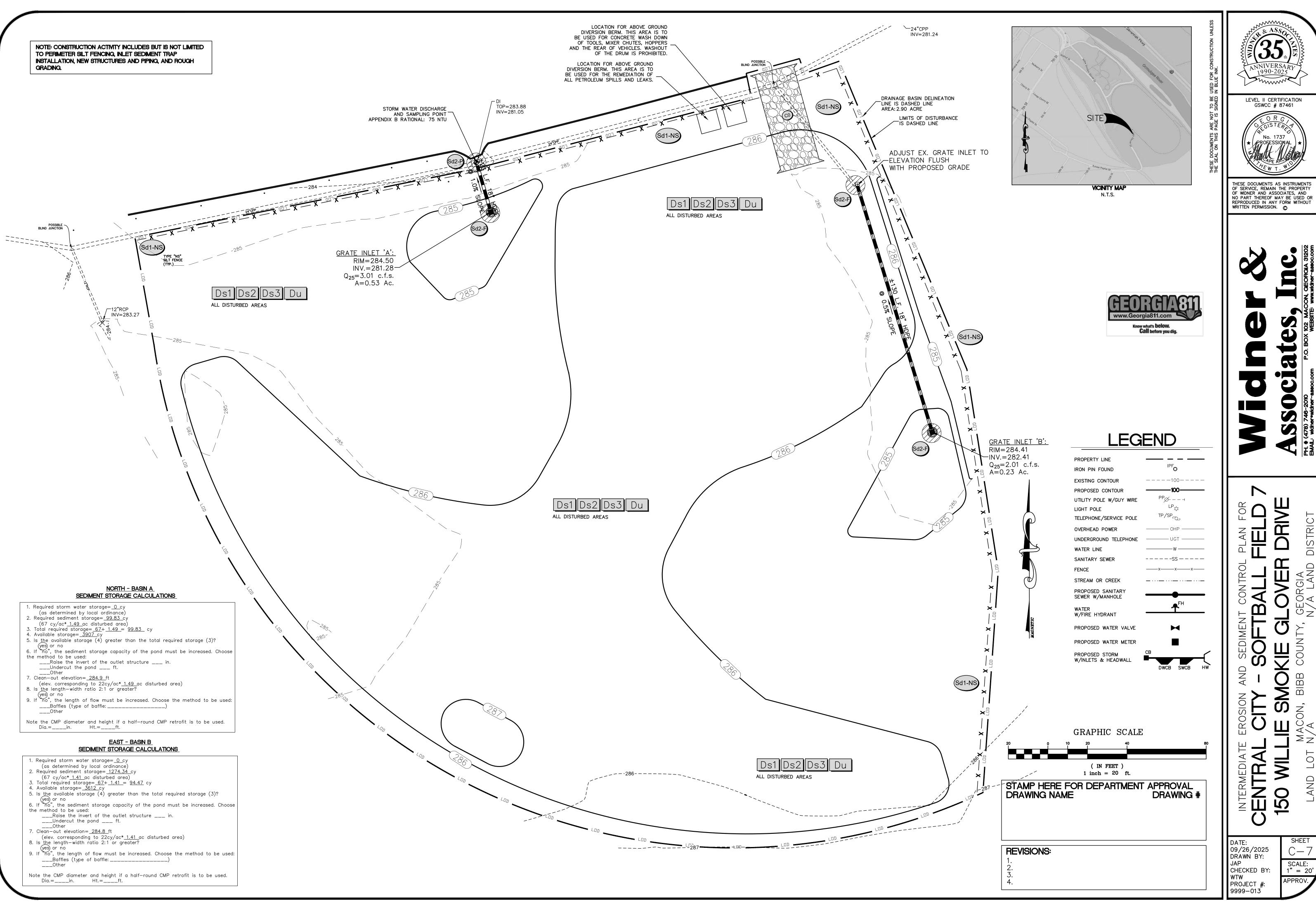
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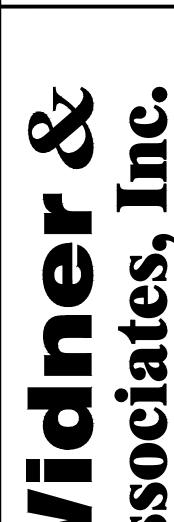
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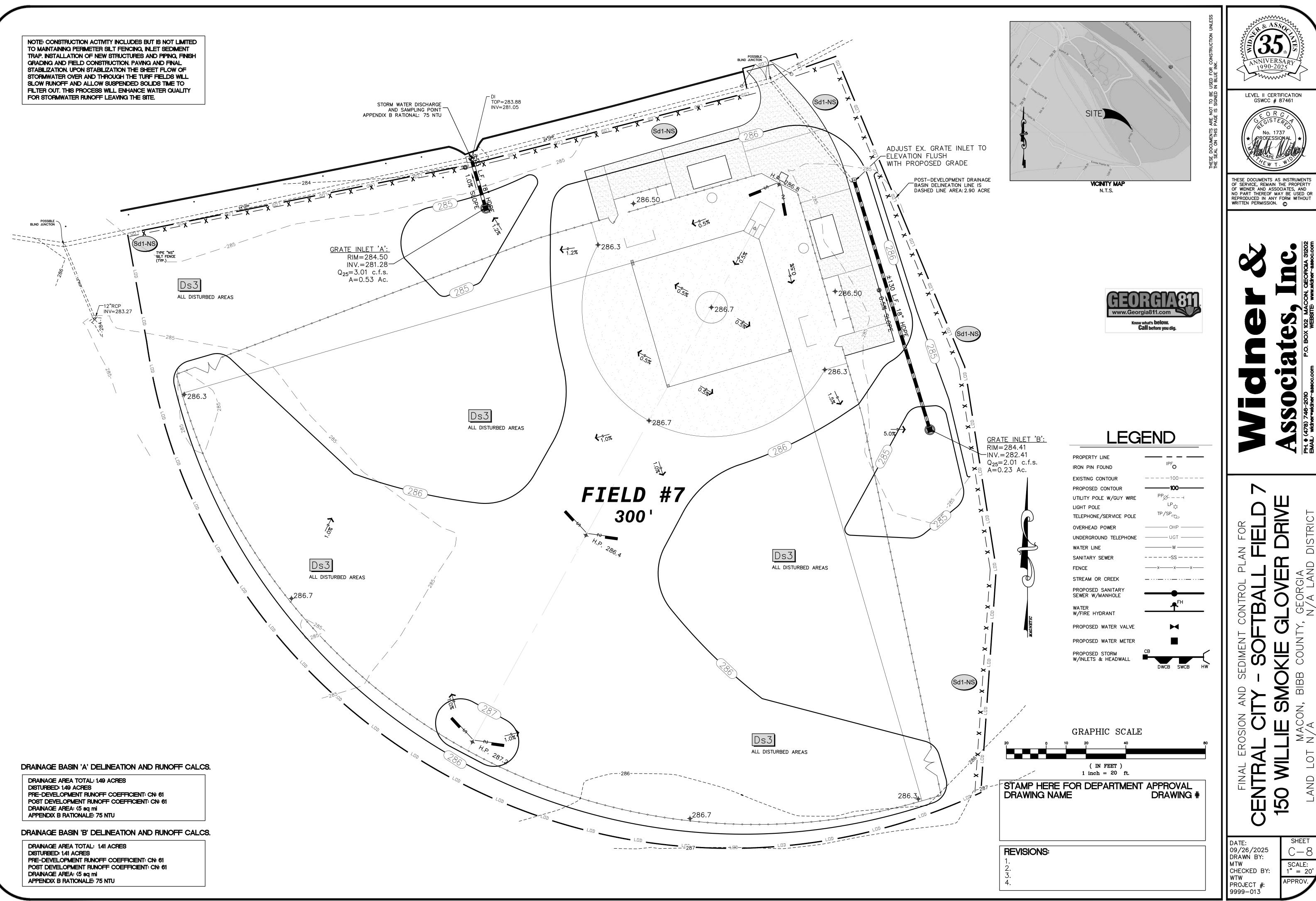


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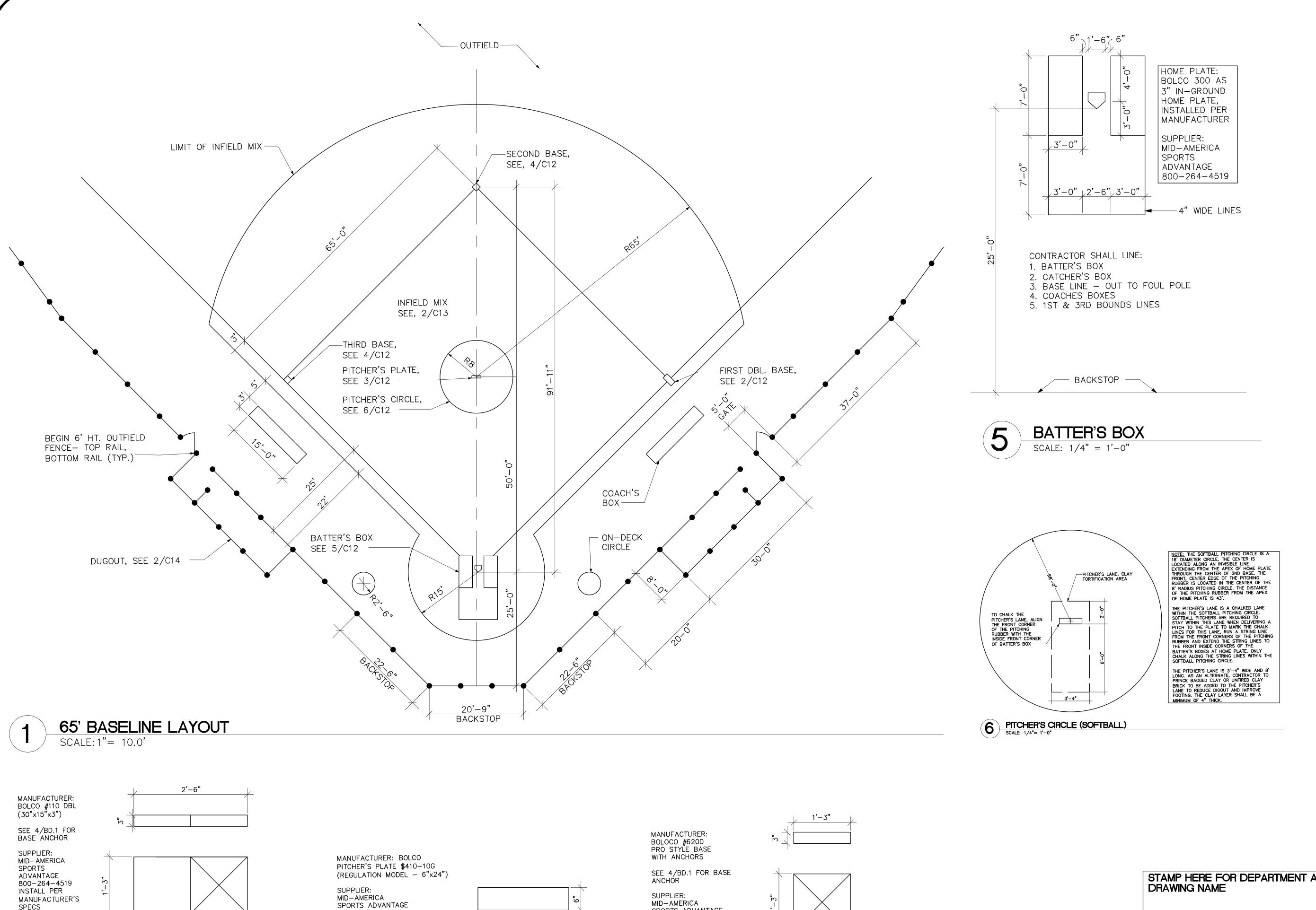




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DATE: 09/26/2025 DRAWN BY: CHECKED BY:



SPORTS ADVANTAGE

2ND AND 3RD BASE

800-264-4519

800-264-4519

MANUFACTURER'S SPECS

INSTALL PER

1'-3"

FIRST DBL. BASE

SCALE: $1"=1'-\overline{0"}$

2'-0"

PITCHER'S PLATE

SCALE: 1"=1'-0"

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09/26/2025
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WTW
PROJECT #: 9999-013

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DRIVE

SMOKIE

breakfill

150

OUTFIELD BRICK DUST AVAILABLE FROM: INFIELD GENERAL SHALE PRODUCTS CO. 3195 BRICK PLANT ROAD TURF-ATLANTA, GA 30318 PHONE: (404)799-8541 **◄** 1/2% SLOPE -1" COMPACTED BRICK DUST 1" BRICK DUST MIXED W/EXISTING 2" OF SOIL & COMPACTED -COMPACTED SUBGRADE

PRODUCT DESCRIPTION/ MATERIALS/ FINISHES

INSTALLATION PROCESS: 1. PREPARE INFIELD TO SUBGRADE DEPTH 2. SPREAD 1" BRICKDUST OVER ENTIRE INFIELD AREA.TILL BRICK DUST INTO TOP 2" OF SUBGRADE, LEVEL 4 COMPACT. 3. SPREAD ADDITIONAL 1" OF BRICKDUST OVER ENTIRE INFIELD, LEVEL &

COMPACT. FINISH GRADE INFIELD SHOULD BE LEVEL WITH OUTFIELD GRASS. INFIELD MIX

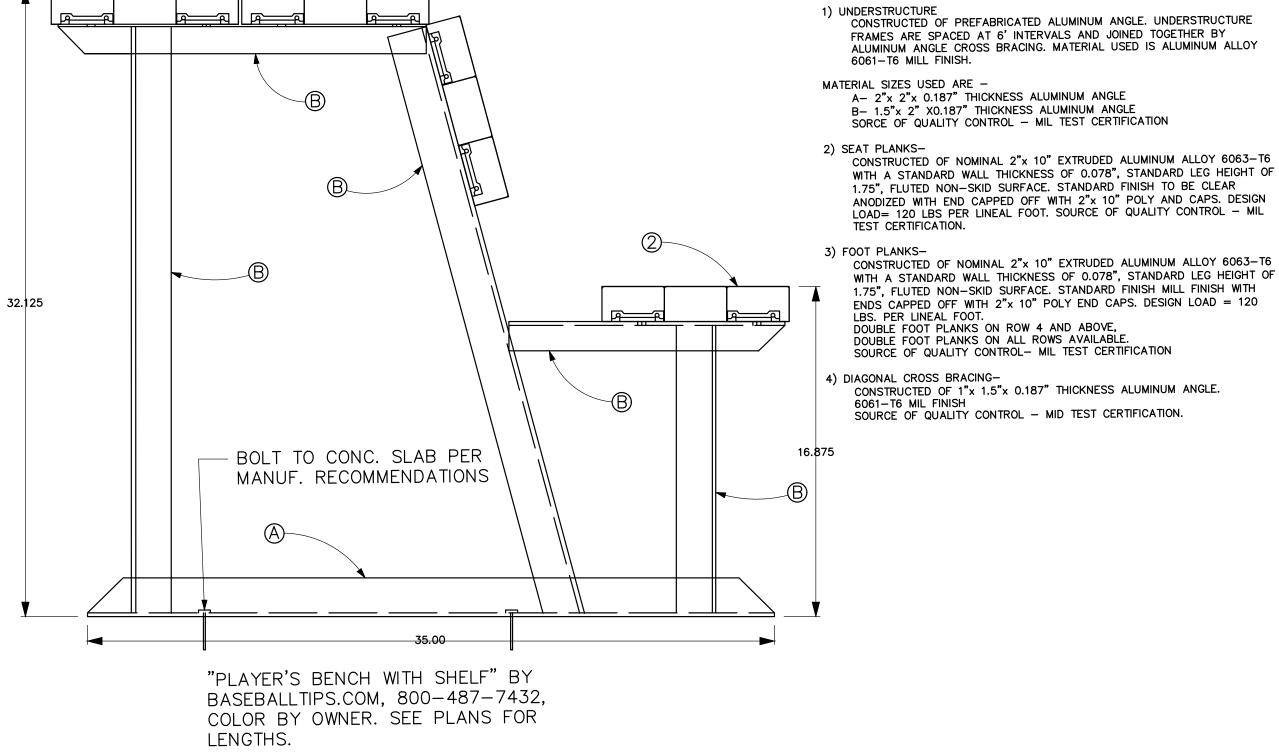
STANDARD FOLDING BACKSTOP PADDING (36993D) BY DOUGLAS INDUSTRIES, DOUGLAS—SPORTS.COM COLOR BY OWNER. (3'Hx12'L)

BACKSTOP PADDING

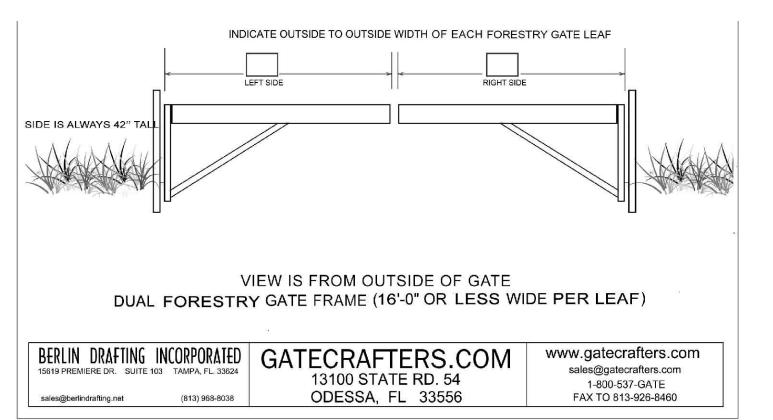
BASE ANCHOR

PREMIUM FENCE GUARD (36982) BY DOUGLAS INDUSTRIES, (DOUGLAS-SPORTS.COM), SAFETY YELLOW IN COLOR.

PREMIUM FENCE GUARD



DUG OUT BENCH

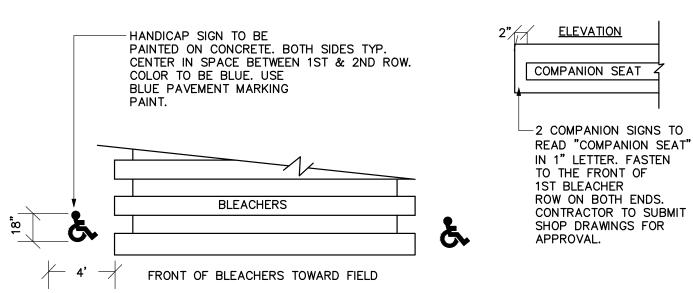


FORESTRY GATE

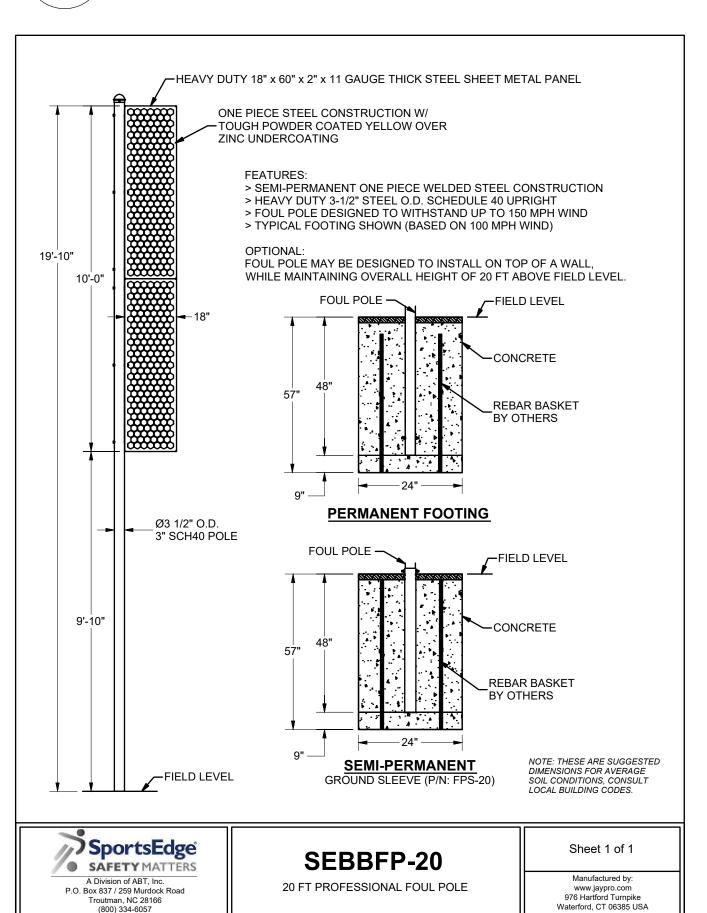
3 ROW, 21'-0", ANODIZED ALUMINUM BLEACHERS BY BASEBALL TIPS.COM, 800-487-7432

BLEACHER DETAIL

NTS



HANDICAPPED SEATING AREA AT LOCATIONS FOR BLEACHERS

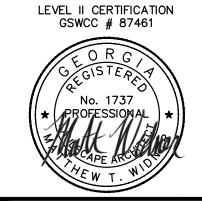


20 FT PROFESSIONAL FOUL POLE

P.O. Box 837 / 259 Murdock Road Troutman, NC 28166 (800) 334-6057 FOUL POLE 8

> STAMP HERE FOR DEPARTMENT APPROVAL DRAWING NAME DRAWING #

REVISIONS:



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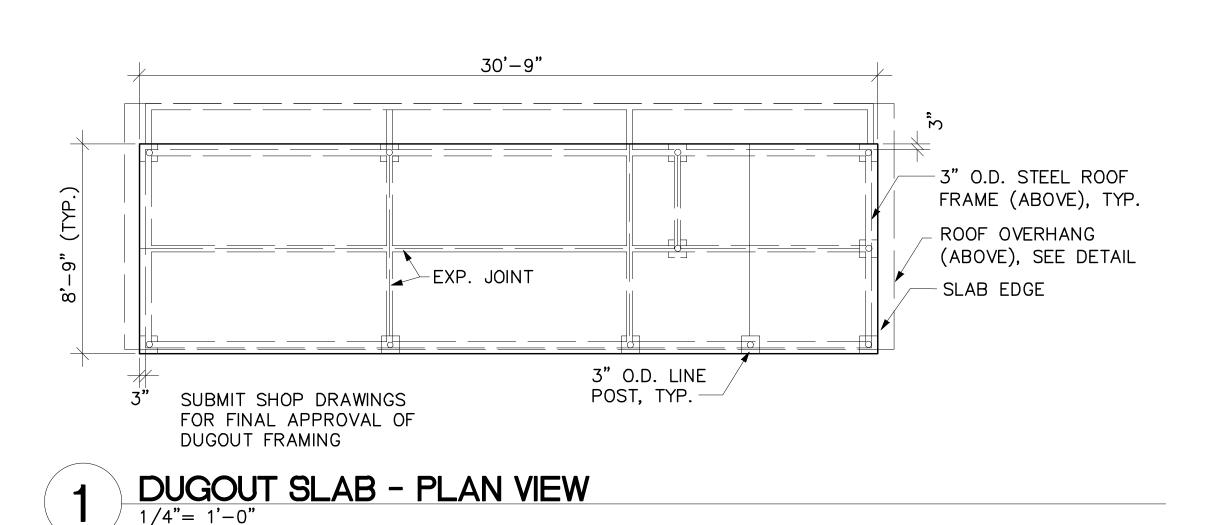
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8' FOOT 9 GA. BLACK VINYL FENCE FABRIC 30'-0" 8'-0" HELMET RACK, 10'-0" 12'-0" SEE DETAIL COACH'S SHELF, SEE DETAIL BENCH, SEE DETAIL BAT RACK, SEE DETAIL - SLAB EDGE FOOTREST ROOF OVERHANG 3" O.D. POST, TYP. (ABOVE) SEE DETAIL 5'-0" 10'-0" 5'-0" 4" CORNER POST, TYP. FABRIC TO OUTSIDE OF POSTS FOOTREST; C3X6 STANDARD C-SHAPED STEEL CHANNEL WELD FLUSH WITH POST FRONT GRIND SMOOTH, PAINT TO

MATCH POSTS, 10" HT

DUGOUT LAYOUT 1/4"= 1'-0"

6"x3/4" FLAT

STEEL BAR

4x4 SQ.

INSET: 1'=1-0"

7'-9"

STEEL HOOK

- COACH'S SHELF

SEE INSET

SEE DETAIL

6"x3/4" FLAT STEEL BAR,

WELD FLUSH W/POST

BACK, GRIND SMOOTH

PAINT TO MATCH POSTS

-1/4" ROUND + 10"

- 2"x2" SQUARE STEEL

TUBING WELDED TO

POSTS & SHELF

STEEL POST

−3" O.D.

BAT RACK

SEE DETAIL

POST

MOUNT BETWEEN POSTS, TOP OF RACK TO BE 36" ABOVE TOP OF CONCRETE SLAB, SEE HELMET RACK DETAIL. WELD IN PLACE. PAINT TO MATCH POSTS. 4'-0" -C3x6 STANDARD C-SHAPED CHANNEL ALLLANDAR ALLANDAR A 1½" CUTOUT _3" O.D. STEEL POST BAT RACK - PLAN

3/4" STEEL CUT TO FIT, WELD IN PLACE, GRIND SMOOTH, PAINT TO MATCH 4x4 POSTS 2'-4" 2x2 SQ. STEEL POST TUBING WELDED TO POSTS & SHELF GRIND SMOOTH, PAINT TO MATCH တ POSTS (UNDER SHELF) 2'-1" HELMET RACK, SEE DETAIL.

COACH'S SHELF - PLAN

ROOFING NOTE: MIGHTY-RIB, 26 GA. CORRUGATED METAL ROOFING PANEL BY FABRAL, DISTURBED BY ORION ASSOCIATES, 866-913-6551 OR APPROVED EQUAL COLOR TO BE SELECTED BY OWNER, PROVIDE MANUFACTURE'S RECOMMENDATIONS TO AVOID EXPOSED POINTS OF FASTNERS BELOW DECKING. INSTALL WITH UNDERLAYMENT AND INSTALL ALL COMPONENTS PER MANUFACTURER'S RECOMMENDATIONS.

8'-0" FENCE PART OF 4'-0" BACKSTOP 4'-0" SEE DETAIL METAL ROOF, SEE NOTE 12 METAL FACIA-3"x3" STEEL ANSLE IRON JOISTS WELDED TO 3" POSTS 1'-104" CHAINLINK FENCE SEE DETAIL 4'-0" 3" O.D. SCH. 40 STEEL POST-FOOTREST: C3x6 COACH'S SHELF, SEE DETAIL STANDARD C-SHAPED STEEL CHANNEL BAT RACK, SEE DETAIL WELD FLUSH WITH POST BENCH, SEE DETAIL FRONT, GRIND SMOOTH, PAINT TO MATCH POSTS, 10" HT. CONCRETE SLAB 3000 PSI, 18" DIA. CONC. FOOTING, SEE POST FOOTING DETAIL COMPACTED OR UNDISTURBED SUBGRADE TO 95% PROCTOR 8'-0"

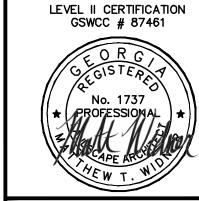
DUGOUT SLAB - PLAN VIEW

1/2"= 1'-0"

- 1. ALL POSTS SHALL BE EQUIPPED WITH EITHER LINE POST CAPS OR STANDARD CAPS TO KEEP MOISTURE OUT OF POST, SEE DETAIL
- 2. ALL FENCING SHALL BE BLACK VINYL COATED, KNUCKLED AT TOP AND BOTTOM.
- 3. CHANGES IN REQUIRED PLANS DUE TO SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE FOR APPROVAL.
- 4. SOFT STEEL TIES. (9 GAUGE TO MATCH FENCE FABRIC COATING) 5. ALL POSTS AND RAILS TO BE GALVANIZED, SCHEDULE 40, AND PAINTED BLACK.
- 6. ALL WELDS TO BE GROUND SMOOTH AND PAINTED BLACK.

NOTE: ALL FENCE FABRIC, POSTS RAILS, HARDWARE, ETC. TO BE FUSION BONED PVC COATED, COLOR BLACK, GAUGE OF FUSION BONDED FENCING TO REFER TO CORE WIRE SIZE , NOT TOTAL DIAMETER OF WIRE WITH COATING.

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∠.	
2. 3.	



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DRIVE OVER.

OKIE COUN

SMO N, BIBB ▋ 150

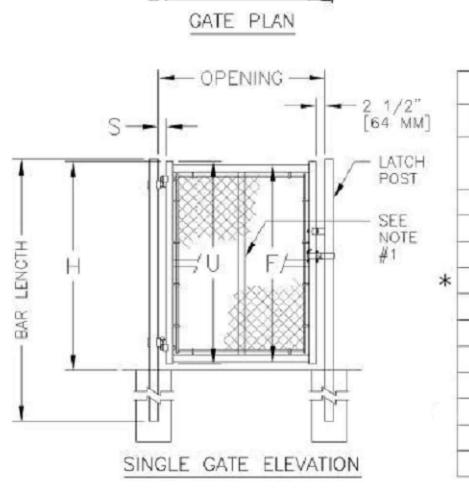
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1'-0"

HELMET RACK
1/2"= 1'-0"

1/4" ROUND

STEEL HOOK



	SING	LE OR DOUBLE LE	AF GATES
	NOM HEIGHT (H)	UPRIGHT HT (U)	FRAME HT (F)
	WITHOUT BARBED WIRE	ACTUAL DIM	ACTUAL DIM
	3'-0" [914MM]	2'-10" [864MM]	2'-8 1/2' [826MM]
	3'-6" [1067MM]	3'-4" [1016MM]	3'-2 1/2' [978MM]
Ī	4'-C" [1219MM]	3'-10" [1168MM]	3'-8 1/2' [1130MM]
k	5'-C" [1524MM]	4'-10" [1473MM]	4'-8 1/2' [1435MM]
Ī	6'-C" [1829MM]	5'-10" [1778MM]	5'-8 1/2' [1740MM]
	7'-C" [2134MM]	6'-10" [2083MM]	6'-8 1/2' [2045MM]
	8'-C" [2438MM]	7'-10" [2388MM]	7'-8 1/2' [2350MM]
	9'-C" [2743MM]	8'-10" [2692MM]	8'-8 1/2' [2654MM]
	10'-C" [3048MM]	9'-10" [2997MM]	9'-8 1/2' [2959MM]
ĺ	11'-C" [3353MM]	10'-10" [33C2MM]	10'-8 1/2' [3264MM]
	12'-C" [3658MM]	11'-10" [36C7MM]	11'-8 1/2' [3569MM]

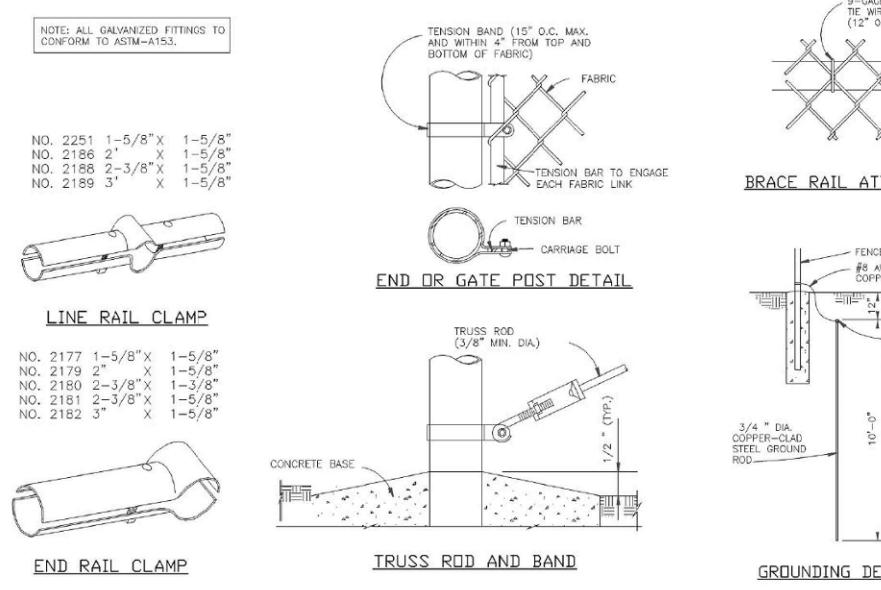
	s-	OPENING	
1		ROD, TYP: 2-7/8" OD POST w/DOM	HINGE
BAR LENGTH -	H H	F F F F F F F F F F F F F F F F F F F	L CAP
BAR	<u> </u>		
<u>.</u>		J CENTER STOP-	
		DOUBLE GATE ELEVATION	

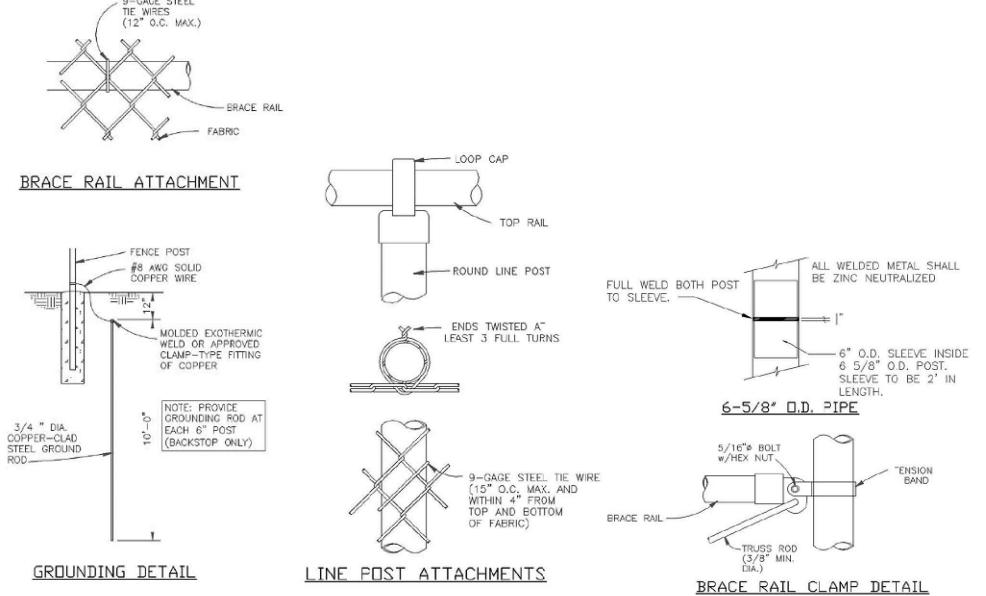
GATE PLAN

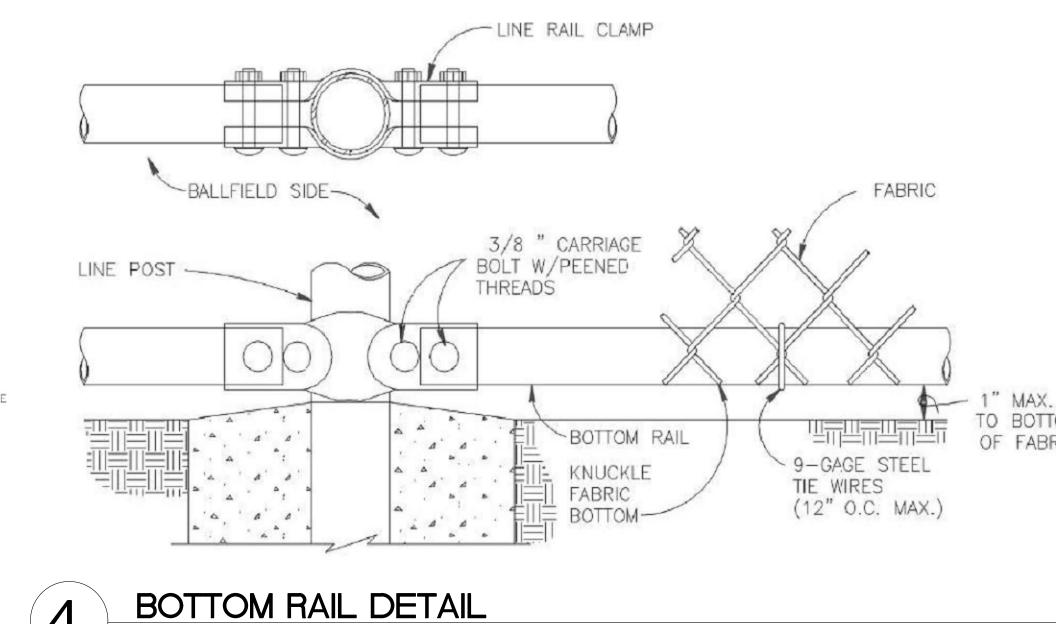
	SINGLE LEAF GATE	S
OPENING	GATE POSTS	HINGE SPACE (S)
FACE TO FACE	SQ & RND SIZES	POST TO UPRIGHT
3'-0" [914MM] THROUSH 6'-0" [1829MM]	2 1/2" [63.5MM] SG OR 2.875" [73MM] OD	FOR SQUARE & ROUND GATE POSTS: 2 1/4" [57MM]

		DOUBLE LEAF GAT	ES
	OPENING	GATE PCSTS	HINGE SPACE (S)
	FACE TO FACE	SQ & RND SIZES	POST TO UPRIGHT
*	14'-0" [4267MM] THROUGH 24'-0" [7315MM]	3" [76MM] SQ OR 4" [102MM] OD	FOR SQUARE & ROUND GATE POSTS: 2 1/4" [57MM]

CHAINLINK GATE

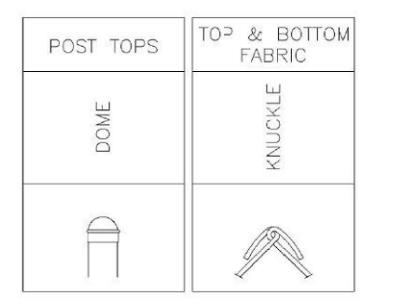






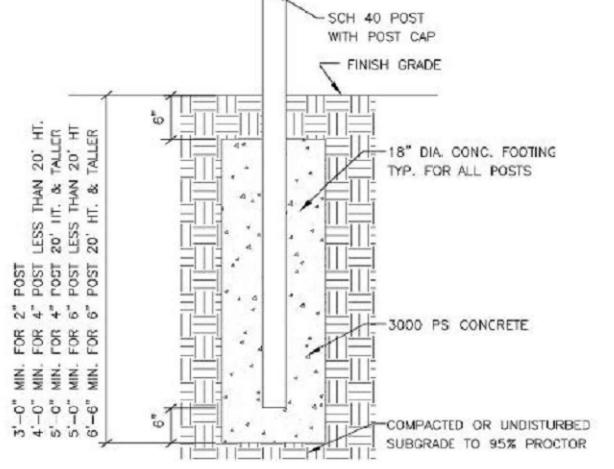
CHAIN LINK FABRIC, KNUCKLED SELVAGE





POST CAPS AND FABRIC EDGES

NTS



DOME CAP

ROUND END 4 CORNER POST

RAIL TIE

912" O.C.

BOTTOM SELVAGE KNUCKLED

TENSION BAR

DIMENSIONS .

-4" POST

CHAINLINK FENCE

- 2" O.D. BRACE RAIL ON FENCES 6' AND TALER

- TURNBUCKLE - ADJUSTABLE - TENSION BAR TRUSS ROD

-SEE 1/C1.2 FOR FOOTING

10' O.C.

TTP.

POST FOOTING 6

DRAWING NAME

REVISIONS:

STAMP HERE FOR DEPARTMENT APPROVAL

LINE POST CAP

- 2" OD. TOP RAIL

LINE POST TIE

NOTE: OUTFIELD FENCES SHALL

NOT HAVE A VINYL CLAD FINISH. ALL OTHERS TO

то воттом

OF FABRIC

DRAWING #

BE BLACK VINYL

COATED.

@ 12" O.C.

- 2" OD. LINE POST



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DRIVE OVER. SMOKIE

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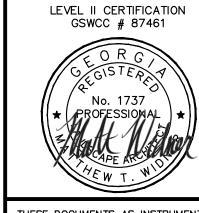
-6"DIA. SCHEDULE 4. CANTILEVERED 6' TALL, BACKSTOP PLAN VIEW POSTS W/POSTCAPS 45 DEGREE OVERHANG AT TOP OF BACKSTOP WITH 4" POSTS, SUBMIT SHOP - POSTCAP (TYP.) DRAWINGS FOR REVIEW BACKSTOP ALL POSTS AND RAILS SHALL BE LOCATED OUTSIDE THE PLAYING FIELDS 6" DIA. SCH. 40 POST W/ W/FABRIC TO THE INSIDE. __4" DIA. SCHEDULE 40 POST CAP ON BACKSTOP POSTS W/POSTCAPS ENDS AND CORNERS, AND-FOUL POLE BETWEEN 6" POSTS AT 20' O.C. MAX, SPACING AS SHOWN SEE PLAN FOR 10' — FABRIC 9 GAUGE BEGIN 10' FENCING C12 RAIL END REV. RAIL END BEGINNING OF -8'-0" OUTFIELD FENCE AT END OF DUGOUT FABRIC 9 GAUGE -6'-0" FOUL LINE FENCE 6' HT. FENCE-_8' FABRIC W/BRACE BAND TYP.\ BOTTOM RAIL 3 C12 RAILS TYP. 9 GAUGE RAIL END W/BRACE BAND, TYP. TIE WIRE END RAIL CLAMP LINE RAIL TO RAIL CLAMP, TYP. @ 12" O.C. -10' FABRIC _10' FABRIC 6 GAUGE 6 GAUGE $\tilde{\Omega}$ EQUAL EQUAL EQUAL EQUAL EQUAL EQUAL EQUAL EQUAL EQUAL THIRDS THIRDS THIRDS THIRDS THIRDS THIRDS SEE PLAN DOUBLE GATE SEE PLAN SEE 3/C11 SEE PLAN 10'-0" 10'-0" SEE PLAN 10'-0" SEE PLAN DUGOUT FENCE (20' HT.) BASELINE FENCE (6' HT.) BASELINE FENCE (10' HT.) BACKSTOP BLEACHER FENCE BACKSTOP (20' w/OVERHANG) (20' w/OVERHANG) HINGE GATE ON-DUGOUT POST

> NOTE: GATES, OPENINGS, ETC. MAY VARY BY LOCATION. SEE LAYOUT PLANS FOR MORE INFORMATION.

BACKSTOP AND FENCE - ELEVATION SCALE: 1/8" = 1'-0"

- 1. ALL POSTS AND RAILS SHALL BE LOCATED OUTSIDE THE PLAYING FIELDS W/ FABRIC TO THE INSIDE.
- 2. ALL TERMINAL AND LINE POST 20'-0" OR TALLER SHALL BE 4" DIA. SCH. 40 STEEL UNLESS OTHERWISE NOTED.
- 3. ALL RAILS SHALL BE 1-5/8"X1/4" ROLL FORMED STEEL OR EQUAL C TYPE RAIL POST.
- 4. ALL POSTS SHALL BE EQUIPPED WITH EITHER LINE POST CAPS OR STANDARD CAPS TO KEEP MOISTURE OUT OF
- 5. ALL FENCING SHALL BE KNUCKLED TOP AND BOTTOM.
- 6. SEE FENCING CHARTS FOR CORNER POST AND LINE POST REQUIREMENTS.
- 7. CHANGES IN REQUIRED PLANS DUE TO SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE FOR APPROVAL.
- 8. ALL FIELD ACCESS GATES TO BE SINGLE PANELS UNLESS NOTED OTHERWISE ON PLANS.
- 9. SOFT STEEL TIES. (9 GAUGE TO MATCH FENCE FABIC COATING)
- 10. MID-RAIL ON FENCING 6' & OVER.
- 11. FENCING HT. 4' AND UNDER 1BAND PER FOOT. FENCING HT. 5' AND ABOVE 1 BAND LESS THAN HT. OF FENCE. 12. ALL FENCE FABRIC, POSTS, RAILS, HARDWARE, ETX. TO BE GALVANIZED IN BASE BID, PVC FUSION BONDED VINYL COATED BLACK. GAUGE OF VINYL COATED FABRIC REFERS TO CORE WIRE.

CANTILEVERED OVERHANG - TRUSS ROD — TURNBUCKLE CHAINLINK -FABRIC 2" OD ROOF MEMBERS 4" OR 6" OD POST CHAINLINK STAMP HERE FOR DEPARTMENT APPROVAL 2" OD RAILS-DRAWING NAME **DRAWING # REVISIONS:** SECTION A



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Ds1 Disturbed Area Stabilization (With Mulching Only)

AUTOURNO A DOLL	OATION DEGIL	
MULCHING APPLI	CATION REQUI	REMENIS
MATERIALS	Rate	DEPTH
Straw or Hay	2 1/2 Ton/Acre	6" to 10"
Wood waste, chips, sawdust, bark	6 to 9 Ton/Acre	2" to 3"
Cutback Asphalt	1200 gal./acre or 1/4 gal./sq. yd.	-
Polyethylene film	Secure w/ soil anchors, weights	_
Geotextiles, jute matting netting, ect.	See manufacturer's recommendations	-

<u>SPECIFICATIONS</u>

sediment barriers and others.

Excessive water run-off shall be reduced by properly designed and installed

When a hydraulic seeder is used, seedbed preparation is not required. When

When soil has been sealed by rainfall or consists of smooth cut slopes, the soil

shall be pitted, trenched or otherwise scarified to provide a place for seed to

Agricultural lime is required unless soil tests indicate otherwise. Apply

agricultural lime at a rate of one ton per acre. Graded areas require lime

Select a grass or grass-legume mixture suitable to the area and season of the

year. Seed shall be applied uniformly by hand, cyclone seeder, drill, cultipacker

seeder, or hydraulic seeder (slurry including seed and fertilizer). Drill or cultipacker seeders should normally place seed one-quarter to one-half inch deep. Appropriate depth of planting is ten times the seed diameter. Soil should

Temporary vegetation can, in most cases, be established without the use of

During times of drought, water shall be applied at a rate not causing runoff and

erosion. The soil shall be thoroughly wetted to a depth that will insure

germinate. Hydraulic seeding may also be used.

holes, opening furrows, or dibble planting.

when the soil is dry, preferably in August or September.

fiber mulch with water and apply in a slurry uniformly over the area to be treated. Apply within one hour after the mixture is made.

Seeding will be done on a freshly prepared and firmed seedbed. For broadcast

Cover the seed lightly with 1/8 to 1/4 inch of soil for small seed and 1/2 to 1 inch

planting, use a cultipacker seeder, drill, rotary seeder, other mechanical seeder or hand seeding to distribute the seed uniformly over the area to be treated.

seeding shall be done with appropriate no-till seeding equipment. The seed must be uniformly distributed and planted at the proper depth.

Shrubs, vines and sprigs may be planted with appropriate planters or hand

for large seed when using a cultipacker or other suitable equipment.

mulch. Mulch without seeding should be considered for short term protection Refer to Ds1 - Disturbed Area Stabilization (With Mulching Only).

land preparation and incorporated with a disk, ripper or chisel.

be "raked" lightly to cover seed with soil if seeded by hand.

DEFINITION

The establishment of temporary vegetative cover with fast growing seedings for Grading and Shaping seasonal protection on disturbed or denuded areas.

Temporary grassing, instead of mulch, can be applied to rough graded areas that will be exposed for less than six months. Temporary vegetative measures should be coordinated with permanent measures to assure economical and effective stabilization. Most types of temporary vegetation are ideal to use as companion crops until the permanent vegetation is established.

SEEDING RATES FOR TEMPORARY SEEDIN				
SPECIES	RATE Per 1,000 sq.ft.	RATE Per Acre *	PLANTING DATES **	
Rye	3.9 pounds	3 bu.	9/1-3/1	
Ryegrass	0.9 pound	40 lbs.	8/15-4/1	
Annual Lespedeza	0.9 pound	40 lbs.	1/15-3/15	
Weeping Lovegrass	0.1 pound	4 lbs.	2/15-6/15	
Sudangrass	1.4 pounds	60 lbs.	3/1-8/1	
Browntop	0.9 pound	40 lbs.	4/1-7/15	

Unusual site conditions may require heavier seeding rates variations and conditions.
Seeding dates may need to be altered to fit temperture

Wheat 4.1 pounds 3 bu. 9/15-2/1

Ds2 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)

DEFINITION The planting of perennial vegetation such as trees, shrubs, vines, grasses, or legumes on exposed areas for final permanent stabilization. Permanent perennial vegetation shall be used to achieve final stabilization... CONDITIONS

Permanent perennial vegetation is used to provide a protective cover for exposed areas including cuts, fills, dams, and other denuded areas. <u>SPECIFICATIONS</u>

Grading and Shaping

fertilizing equipment is to be used. Vertical banks shall be sloped to enable When conventional seeding and fertilizing are to be done, grade and shape where feasible and practical, so that equipment can be used safely and efficiently during seedbed preparation, seeding, mulching and maintenance of

oncentrations of water that will cause excessive soil erosion shall be diverted to a safe outlet. Diversions and other treatment practices shall conform with the appropriate standards and specifications.

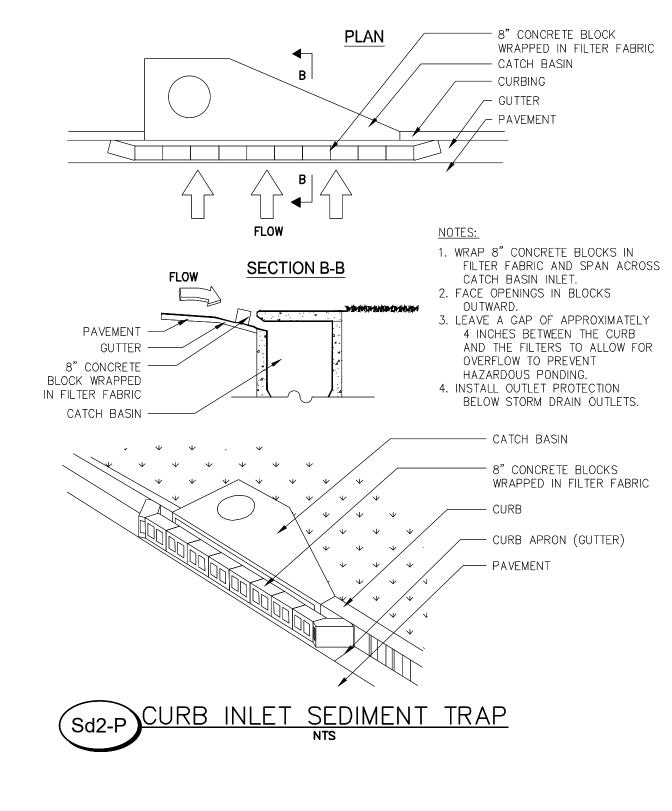
fertilizing equipment is to be used. When conventional seeding is to be used, seedbed preparation will be done as follows:

1. Tillage at a minimum, shall adequately loosen the soil to a depth of 4 to 6 inches; alleviate compaction; incorporate lime and fertilizer; smooth and firm the soil; allow for the proper placement of seed, sprigs, or plants; and allow for

the anchoring of straw or hay mulch if a disk is to be used.

2. Tillage may be done with any suitable equipment.

3. Tillage should be done on the contour where feasible.



olling surface and air movement of dust on construction sites, roads, and demolition sites

CONDITIONS
This practice is applicable to areas subject to surface and air movement of dust where on and off-site damage may occur without treatment.

application. Soils can be tested to determine if fertilizer is needed. On reasonably fertile soils or soil material, fertilizer is not required. For soils with very low fertility, 500 to 700 pounds of 10-10-10 fertilizer or the equivalent per acre (12-16 lbs./1,000 sq. ft.) shall be applied. Fertilizer should be applied before

A TEMPORARY METHODS Tillage. This practice is designed to roughen and bring clods to the surface. It is an emergency measure which should be used before wind erosion starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12 inches apart, spring-toothed harrows, and similar plows are examples of

equipment which may produce the desired effect. Irrigation. This is generally done as an emergency treatment. Site is sprinkled with water until the surface is wet. Repeat as needed.

germination of the seed. Subsequent applications should be made when needed.

4. On slopes too steep for the safe operation of tillage equipment, the soil surface shall be pitted or trenched across the slope with appropriate hand tools Mulch is required for all permanent vegetation applications. Mulch applied to grade SS-1h or CSS-1h emulsified asphalt and 100 gallons of water per ton of to provide two places 6 to 8 inches apart in which seed may lodge and 1. Where individual plants are to be set, the soil shall be prepared by excavating holes, opening furrows, or dibble planting.

1. Where individual plants are to be set, the soil shall be prepared by excavating stall be applied at the rate of 2 tons per acre. Dry hay shall be applied at the prepared by excavating a rate of 2 1/2 tons per acre.

2. Hay and straw mulch shall be pressed into the soil immediately after the mulch is spread. A special "packer disc" or disk harrow with the disks set 2. For nursery stock plants, holes shall be large enough to accommodate roots without crowding.

3. Where pine seedlings are to be planted, subsoil under the row 36 inches deep on the contour four to six months prior to planting. Subsoiling should be done

Mix the seed (innoculated if needed), fertilizer, and wood cellulose or wood pulp ditches or dry waterways to prevent erosion. Bituminous treated roving shall be applied within 24 hours after an area has been planted. Application rates and materials must meet Georgia Department of Transportation specifications. Wood cellulose and wood pulp fibers shall not contain germination or growth inhibiting factors. They shall be evenly dispersed when agitated in water. The fibers shall contain a dye to allow visual metering and aid in uniform application

No-till seeding is permissible into annual cover crops when planting is done following maturity of the cover crop or if the temporary cover stand is sparse Straw or hay mulch will be spread uniformly within 24 hours after seeding and/or planting. The mulch may be spread by blower-type spreading equi other spreading equipment or by hand. Mulch shall be applied to cover 75 enough to allow adequate growth of the permanent (perennial) species. No-till Wood cellulose or wood fiber mulch shall be applied uniformly with hydraulic

tools. Pine trees shall be planted manually in the subsoil furrow. Each plant shall be set in a manner that will avoid crowding the roots. Nursery stock plants shall be planted at the same depth or slightly deeper than they grew at the nursery. The tips of vines and sprigs must be at or slightly above the ground Anchor straw or hay mulch immediately after application by one of the following surface. Where individual holes are dug, fertilizer shall be placed in the bottom 1. Emulsified asphalt can be (a) sprayed uniformly onto the mulch as it is ejected from the blower machine or (b) sprayed on the mulch immediately following mulch application when straw or hay is spread by methods other than of the hole, two inches of soil shall be added and the plant shall be set in the

nixture satisfactory for spraying. The mixture shall consist of 100 gallons of Care shall be taken at all times to protect state waters, the public, adjacent

straw shall be applied at the rate of 2 tons per acre. Dry hay shall be applied at a rate of 2 1/2 tons per acre.

2. Wood cellulose mulch or wood pulp fiber shall be used with hydraulic seeding. It shall be applied at the rate of 500 pounds per acre. Drystraw or dry hay shall be applied (at the rate indicated above) after hydraulic seeding.

3. One thousand pounds of wood cellulose or wood pulp fiber, which includes a tackifier, shall be used with hydraulic seeding on slopes 3/4:1 or steeper.

4. Sericea lespedeza hay containing mature seed shall be applied at a rate of three tons per acre.

5. Pine straw or pine bark shall be applied at a thickness of 3 inches for bedding purposes. Other suitable materials in sufficient quantity may be used where ornamentals or other ground covers are planted. This is not appropriate ornamentals or other ground covers are planted. This is not appropriate for seeded areas.

mulch. They shall be applied at a rate of one-quarter to one half bushel per acre.

Plastic mesh or netting with mesh no larger than one inch by one inch may be for seeded areas.

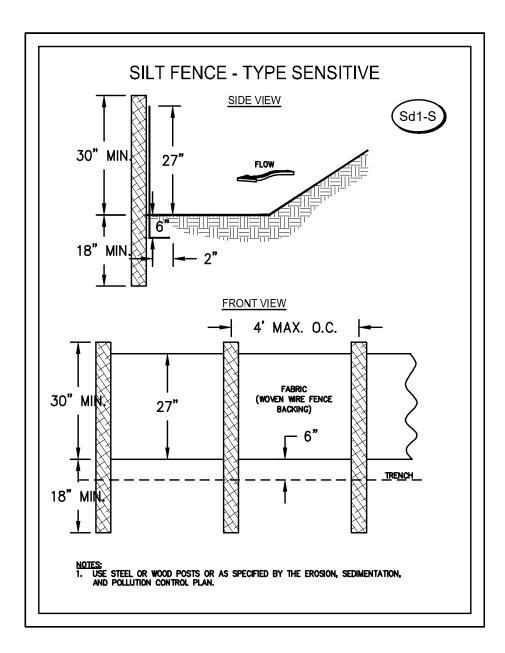
6. When using temporary erosion control blankets or block sod, mulch is not required.

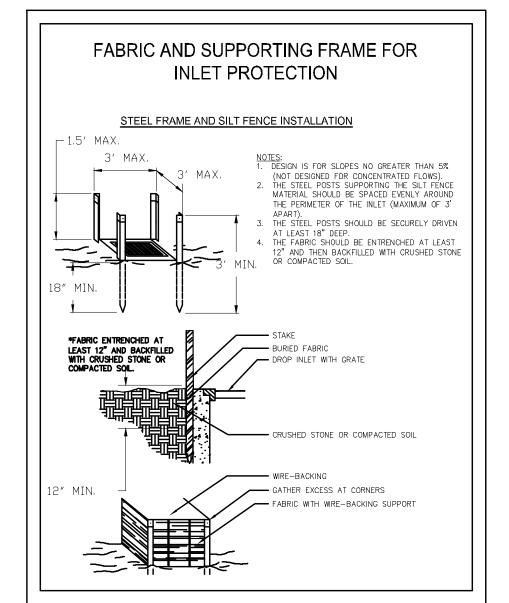
7. Bituminous treated roving may be applied on planted areas on slopes, in an analysis of the seed of th

SEEDING RATES FOR PERMANENT SEEDING

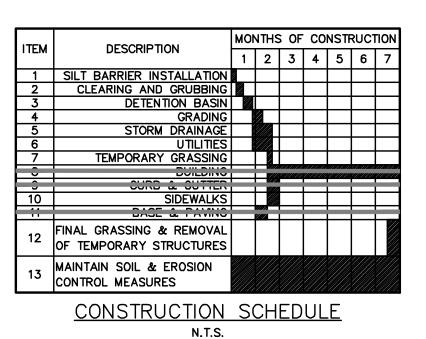
SPECIES	RATE Per 1,000 sq.ft.	RATE Per Acre *	PLANTII DATES
AHIA	1.4 POUNDS	60 LBS.	1/1-12/31
ERMUDA	0.2 POUND	10 LBS.	2/15-7/1
ENTIPEDE	BLOCK SOD ONLY	BLOCK SOD ONLY	4/1-7/1
ESPEDEZA	1.7 POUNDS	75 LBS.	1/1-12/31
/EEPING OVE GRASS	0.1 POUND	4 LBS.	2/1-6/15
WITCH GRASS	0.9 POUND	40 LBS	3/15-6/1
		1	3/13-0/1

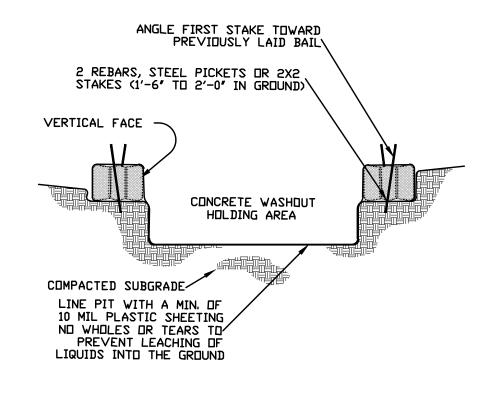
* Unusual site conditions may require heavier seeding rates ** Seeding dates may need to be altered to fit temperature variations and conditions.

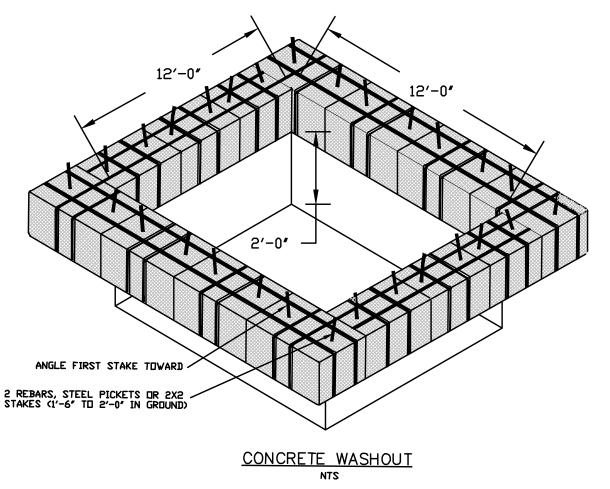












12 DRAINAGE - 8.5" SLOT LENGTH 3.5" SLOT WIDTH @ WIDE END 1.5" SLOT WIDTH @ NARROW END

60.25" MIN. ───── 51.0" DIA. → 43.0" DIA. @ WIDE END 8.625" 2.0" SLOT WIDTH

ELEVATION VIEW

ALL TEMPORARY EROSION, SEDIMENTATION, & POLLUTION CONTROL PRACTICES SHOULD BE INSPECTED DAILY. CONTRACTOR SHALL REMOVE SEDIMENT AND DISPOSE OF IN A PROPER MANNER. INSPECT S-200A DAILY FOR CUTS, ABRASIONS, AND PROPER INSTALLATION. REPLACE OR REPOSITION AS NECESSARY.

FILTER FABRIC SILT-SAVER HAT SHALL BE BASED ON DESIGN PROFESSIONAL'S SPECIFICATIONS.

HEAD - 3.0' FRAME & FILTER DISCHARGE ANALYSIS HEAD (FT) EQUATION OPENING FRAME FILTER USED AREA (SF) FLOW (CFS) AREA (SF)

DUE TO NARROW SLOT, A TRANSITION WILL OCCUR BETWEEN WEIR AND ORIFICE CONDITIONS. ORIFICE FLOW WILL PROVIDE A MORE CONSERVATIVE ESTIMATE OF FLOW, THEREFORE THE LESSER OF THE ORIFICE AND WEIR FLOWS WILL BE USED FOR EACH STAGE CALCULATION.

FILTER MATERIAL ALLOWS 129 gpm/SF OR 0.29cfs/SF ORIFICE EQUATION (O) = Q=0.6A(2gh)^0.5 P = FEET PERIMETER h = HEAD IN FEET Q = CAPACITY IN cfs A = FREE OPEN AREA OF FRAME g = 32.2 FEET-PER-SECOND/SECOND

INLET SEDIMENT TRAP (ALTERNATIVE)

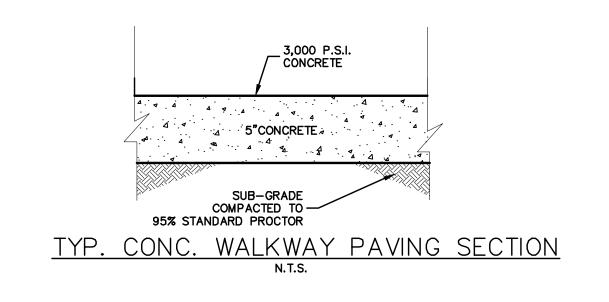
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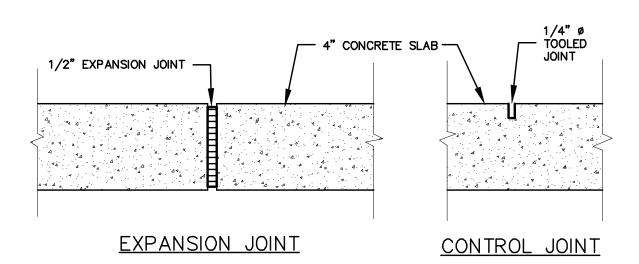
LEVEL II CERTIFICATION GSWCC # 87461

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09/26/2025 DRAWN BY: SCALE: N/A CHECKED BY:

PROJECT #:

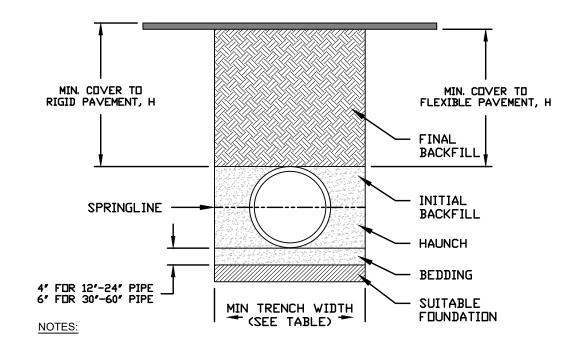




TYPICAL SIDEWALK JOINT DETAILS

PIPE SIZE (SEE PLAN)

TYP. CATCH BASIN DETAIL



1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION, WITH THE EXCEPTION THAT THE INITIAL BACKFILL MAY EXTEND TO THE CROWN OF THE PIPE. SOIL CLASSIFICATIONS ARE PER THE LATEST VERSION OF ASTM D2321. CLASS IVB MATERIALS (MH, CH) AS DEFINED IN PREVIOUS VERSIONS OF ASTM D2321 ARE NOT APPROPRIATE BACKFILL

2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN

3. <u>FOUNDATION:</u> WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.

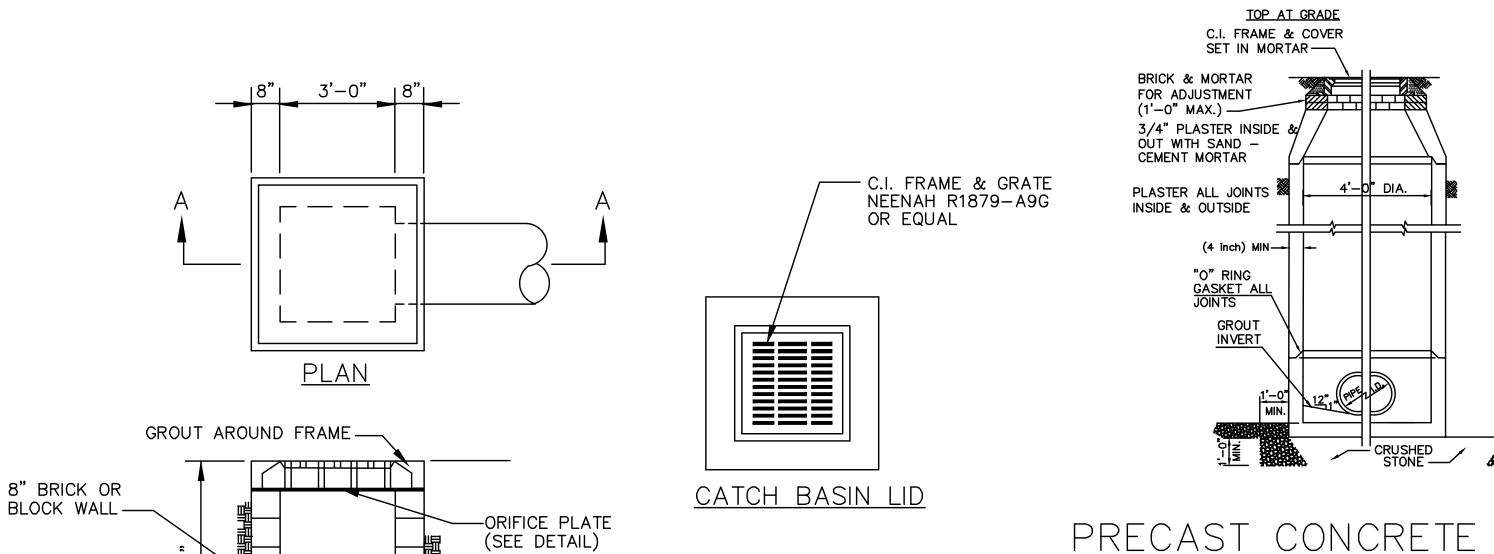
4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II, III, OR IV. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. COMPACTION SHALL BE SPECIFIED BY THE ENGINEER IN ACCORDANCE WITH TABLE 3 FOR THE APPLICABLE FILL HEIGHTS LISTED. UNLESS OTHERWISE NOTED BY THE ENGINEER. MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 12"-24" (300mm-600mm) DIAMETER PIPE; 6" (150mm) FOR 30"-60" (750mm-1500mm) DIAMETER PIPE. THE MIDDLE 1/3 BENEATH THE PIPE INVERT SHALL BE LOOSELY PLACED. PLEASE NOTE, CLASS IV MATERIAL HAS LIMITED APPLICATION AND CAN BE DIFFICULT TO PLACE AND COMPACT; USE ONLY WITH THE APPROVAL OF A

5. <u>INITIAL BACKFILL:</u> SUITABLE MATERIAL SHALL BE CLASS I, II, III, OR IV IN THE PIPE ZONE EXTENDING TO THE CROWN OF THE PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION. COMPACTION SHALL BE SPECIFIED BY THE ENGINEER IN ACCORDANCE WITH TABLE 3 FOR THE APPLICABLE FILL HEIGHTS LISTED. PLEASE NOTE, CLASS IV MATERIAL HAS LIMITED APPLICATION AND CAN BE DIFFICULT TO PLACE AND COMPACT; USE ONLY WITH THE APPROVAL OF A SOIL EXPERT.

6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" (300mm) FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS; CLASS I OR II MATERIAL COMPACTED TO 90% SPD AND CLASS III COMPACTED TO 95% SPD IS REQUIRED. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" (300mm) UP TO 48" (1200mm) DIAMETER PIPE AND 24" (600mm) OF COVER FOR 60" (1500mm) DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

TABLE 1, RECOMMENDED MINIMUM TRENCH WIDTHS TABLE 2, MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS PIPE MIN. TRENCH DIAM. WIDTH HEAVY CONSTRUCTION PIPE DIAM. (75T AXLE LOAD) * * VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER

PIPE BEDDING DETAIL



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1. 2. 3.	

DRIVE

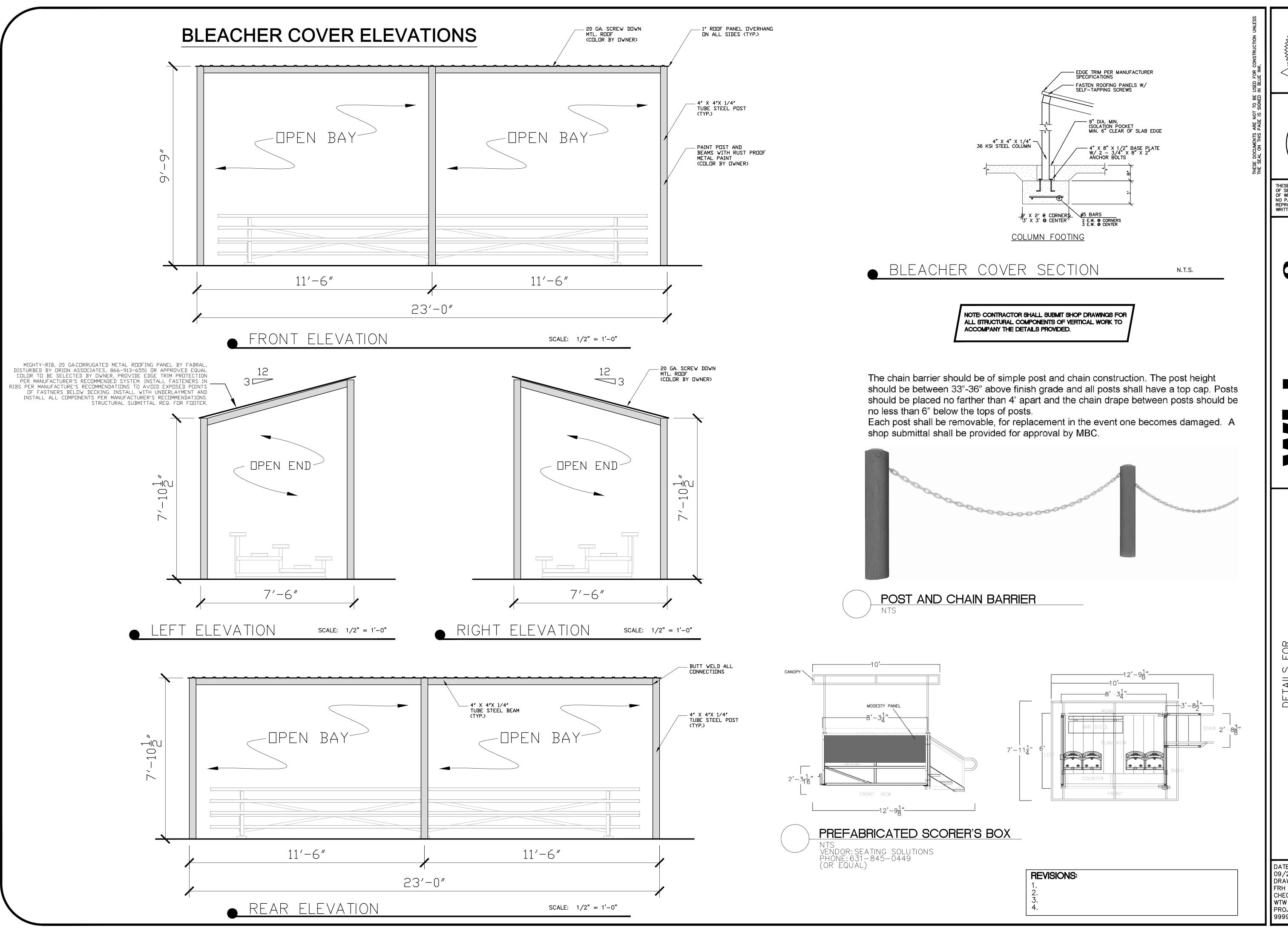
LEVEL II CERTIFICATION

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GSWCC # 87461

DATE:
09/26/2025
DRAWN BY:
JAP
CHECKED BY:
WTW
PROJECT #:
9999-013 SCALE: N/A





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DRIVE

DATE:
09/26/2025
DRAWN BY:
FRH
CHECKED BY:
WTW
PROJECT #:
9999-013 SCALE: AS SHOWN Future Conditions 1% Annual Chance Flood Hazard Zone X

AREAS Area of Undetermined Flood Hazard 201

No Digital Data Available

PER THE CONDITIONS SET FORTH IN THE GENERAL NPDES PERMIT NO. GAR100001

SPECIAL CONDITIONS, MANAGEMENT PRACTICES. PERMIT VIOLATIONS AND OTHER LIMITATIONS Discharges into, or within One Mile Upstream of and within the Same Watershed as, Any Portion of a Biota Impaired Stream Segment. Any permittee who intends to obtain coverage under this permit for stormwater discharges associated with construction activity into an Impaired Stream Segment, or within one (1) linear mile upstream of and within the same watershed as, any portion of an Impaired Stream Segment identified as "not supporting" its designated use(s), as shown on Georgia's most current "305(b)/303(d) List Documents (Approved)" at the time of NOI submittal, must satisfy the requirements of Part III.C. of this permit if the Impaired Stream Segment has been listed for criteria violated/cause, "Bio F" (Impaired Fish Community) and/or 'Bio M' (Impaired Macroinvertebrate Community), within Category 4a, 4b or 5, and the potential cause is either "NP" (nonpoint source) or "UR" (urban runoff). Those discharges that are located within one (1) linear mile of an Impaired Stream Segment, but are not located within the watershed of any portion of that stream segment, are excluded from this requirement. Georgia's "305(b)/303(d) List Documents (Approved)" can be viewed on the EPD website.

In order to ensure that the permittee's discharge(s) do not cause or contribute to a State water quality standards, the Plan must include at least four (4) of the following best management practices (BMPs) for those areas of the site which discharge into or within one (1) linear mile upstream and within the same watershed as the Impaired Stream Segment:

- 1. During all construction activities as defined in this permit, double the width of the 25 foot undisturbed vegetated buffer along all State waters requiring a buffer and the 50 foot undisturbed vegetated buffer along all State waters classified as "trout streams" requiring a buffer. During construction activities, EPD will not grant variances to any such buffers that are increased in width pursuant to this section.
- 2. Use mulch filter berms, in addition to a silt fence, on the site perimeter wherever construction stormwater (including sheet flow) may be discharged. Mulch filter berms cannot be placed in waterways or areas of concentrated flow.
- 3. Install sod for a minimum 20 foot width (in lieu of seeding) after final grade has been achieved, along the site perimeter wherever construction stormwater (including sheetflow) may be discharged.
- 4. Conduct soil tests to identify and to implement site-specific fertilizer needs. Certified personnel shall conduct inspections at least twice every seven (7) calendar days and within 24 hours of the end of the storm that is 0.5 inches rainfall or greater in accordance with Part IV.D.4.a.(3).(a)-(c) of this permit.
- 5. Conduct inspections during the intermediate grading and drainage BMP phase and during the final BMP phase of the project by the design professional who prepared the Plan in accordance with Part IV.A.5. of the permit.

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST STAND ALONE CONSTRUCTION PROJECTS GAR10000

Project Name : Central City Park - Softball Field 7 Address: 150 Willie Smokie Glover Drive Local Issuing Authority: Macon-Bibb County Date on Plans: September 26, 2025 Name & Email of person filling out checklist: Matt@Widner-Assoc.com

1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed. Permit IV.D.1. pg 27 ALL Y 2 Level II certification number issued by the Commission, signature and seal of the certified design professional. Signature, seal and Level II number <u>must</u> be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed. The Level II certification must be issued to the Design Professional, after completion of a GSWCC approved course, and whose signature and seal N/A 3 Limits of disturbance shall be less than 50 acres at any one time without prior written authorization from the GAEPD District Office. If GAEPD approves the request to disturb 50 acres or more at any one time, the Plan must include the GAEPD approval letter and completed

A copy of the written approval by GAEPD must be attached to the Plan for the Plan to be reviewed. Permit IV.D.3. pg 28 The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls. 5 Provide the name, address, email address, and phone number of Primary Permittee Note total and disturbed acreages of the project or phase under construction.

TO BE SHOWN ON ES&PC PLAN

Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees. 8 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions. 9 Descriptions of the nature of construction activity and existing site conditions. 10 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary. C-17 Y 11 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands,

marshlands, etc. which may be affected. Y 12 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on Part IV page 20 of the permit. C-17 Y 13 Design professional's certification statement and signature that the Permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 20 of the permit. * C-17 Y 14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect and certify the installation of the

initial sediment storage requirements and perimeter control BMPs within 7 days after installation." C-17 Y 15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as neasured from the point of wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits." 16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required. C-17 Y 10 Flowage a description of any outner enclosuscentifients and indicate whether a durier variance is required.

17 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic

component must be certified by the design professional." * C-17 Y 18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 C-17 Y 19 Clearly note statement that "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." C-17 Y 20 Clearly note statement that "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

C-17 Y 21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary 2 Any construction activity which discharges storm water into a Biota Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as any portion of a Biota Impaired Stream Segment, must comply with Part III.C. of the permit. Include the

C-17 Y 23 If a TMDL Implementation Plan for sediment has been finalized for the Biota Impaired Stream Segment (identified in Item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. *

CG-7 Y 24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Include statement that washout of the drum at the construction site is prohibited. * 5 Provide BMPs for the remediation of all petroleum spills and leaks. 26 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. *

27 Description of practices to provide cover for building materials and building products on site. * 28 Description of the practices that will be used to reduce the pollutants in storm water discharges. * g Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, grading, infrastructure,

30 Provide complete requirements of <u>Inspections</u> and record keeping by the Primary Permittee. 1 1 Provide complete requirements of <u>Sampling Frequency</u> and <u>Reporting</u> of sampling results.

33 Description of analytical methods to be used to collect and analyze the samples from each location. 34 Appendix B rationale for NTU values at all outfall sampling points where applicable. * C6-8 Y 35 Delineate all sampling locations on all phases of the Plan, and perennial and intermittent streams and other water bodies into which storm

CG-8 Y 36 A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial sediment storage requirements and initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all BMPs into a single phase plan. * 7 Graphic scale and North arrow.

1 inch = 100ft or Rolling 2 - 8% N/A 39 Use of Alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a

32 Provide complete details for Retention of Records as per Part IV.F. of the permit. *

Design Professional (unless disapproved by GAEPD or the Georgia Soil and Water Conservation Commission). Refer to the Alternative BMP Guidance Document found at www.gaswcc.georgia.gov. Georgia 2016 Edition.

N/A 41 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State Waters and any additional buffers as required by the Local Issuing Authority. Clearly note and delineate all areas of impact. 2 Delineation of all State Waters and wetlands located on or within 200 feet of the project site 43 Delineation and acreage of contributing drainage basins on the project site. 44 Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions.

45 Estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed. For solar farm C-8 Y 46 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate at all

7 Soil series for the project site and their delineation. 48 The limits of disturbance for each phase of construction. 49 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during

all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, Permittees are required to utilize outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan.

C6-8, 17 Y 50 Location of Best Management Practices that are consistent with, and no less stringent than, the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual Chapter 6, with legend. C-14 Y 51 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for

> 22 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the

* If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream, the * checklist items would be N/A.

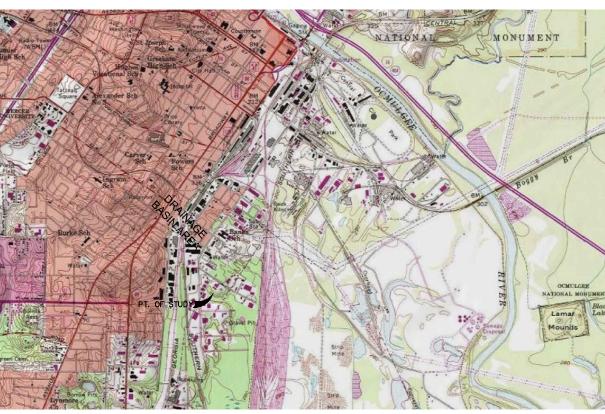
SEEDING RATES FOR TEMPORARY SEEDINGS | Rate Per | Rate Per | 1,000 Acre | Plenting Dates | Coastal | 3 lbs. | 2-3 bu. | 9/1-1/1 | 10/1-3/1 | Unusual site conditions may require heavier seeding rates. Seeding dates may need to be

conditions.				
		0555000		
	PERMANENT	SEEDING S	CHEDULE	
Species	Rate/1,000 af.	Dates	Fertilizer	Rate/1,000 a.f.
Weeping Lovegrass and Vigrata or Soricoa Lespedeza	0.2-0.4 lb. 1-2 lb.	3/1-6/15	6-12-12	25-35 lb.
Tall Fescue	8-10 lb.	8/1–11/1	6-12-12	25-30 lb.
Common Bermuda (Hulled) Common Bermuda		4/1-6/15 5/1-7/1		25-30 lb.
(Unhulled)	∠−3 lb.	3/1-//1	6-12-12	25-30 lb.

altered to fit temperature variations and local

STRUCTURAL PRACTICES

CODE PRACTICE DESCRIPTION SYMBOL BUFFER ZONE CHECKDAM CHANNEL STABILIZATION CONSTRUCTION DISTURBED AREA STABILIZATION WITH MULCHING ONLY) DISTURBED AREA STABILIZATION (WITH TEMPORAR) SEEDING) STABILIZATION (WITH PERMANENT VEGETATION) DISTURBED AREA STABILIZATION B B B Ds4 (WITH SODDING) DIVERSION ON DISTURBED CONSTRUCTION SITES, ROADWAYS, AND SIMILAR SITES. AREA A TEMPORARY STONE BARRIER CONSTRUCTED AT STORM DRAIN INLETS AND POND OUTLETS. INSTALLATION OF A PROTECTIVE EROSION CONTROL HMPH MATTING AND BLANKETS A PERMANENT OR TEMPORARY STONE FILTER DAM INSTALLED ACROSS SMALL STREAMS OR DRAINAGEWAYS. ROCK FILTER **RETAINING** WALL **ETROFITTING** A BARRIER TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. IT MAY BE SANDBACS, BALES OF STRAW OR HAY, BRUSH, LOCS AND POLES, GRAVEL, OR A SEDIMENT FENCE. THE BARRIERS ARE USUALLY TEMPORARY AND SEDIMENT BARRIER SEDIMENT TRAP TEMPORARY SEDIMENT BASIN STORM DRAIN OUTLET PROTECTION A ROUGH SOIL SURFACE WITH HORIZONTAL DEPRESSIONS ON A CONTOUR OR SLOPES LEFT SURFACE ROUGHENING IN A ROUGHENED CONDITION AFTER GRADING. VEGETATED WATERWAY OR STORM WATER CONVEYANCE CHANNEL



SCALE=1: 24000 OR MORE DETAILED

USGS DRAINAGE MAP N.T.S.

GENERAL NOTES:

. CONTRACTOR SHALL INSTALL SEDIMENT BARRIER PRIOR TO GRADING OPERATIONS. A SEDIMENT TRAP SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS AT ALL DROP INLETS AND CURB INLETS AND SHALL BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION. CONTRACTOR SHALL CONSTRUCT A TEMPORARY CONSTRUCTION EXIT, IT SHALL BE 6" THICK AND SHALL BE CONSTRUCTED WITH STONE CONFORMING TO ASTM D448 SIZE

2. THE SUB GRADE AREAS SHALL BE PREPARED USING THE FOLLOWING PROCEDURE AS A MINIMUM REQUIREMENT. REMOVE ALL ORGANIC MATTER, STUMPS AND OTHER DELETERIOUS MATTER. PROOF ROLL THE AREAS TO BE FILLED OR ON WHICH STRUCTURES ARE TO BE PLACED WITH A LOADED DUMP TRUCK OR OTHER RUBBER TIRED EQUIPMENT. OVERLAPPING PASSES OF THE VEHICLE SHOULD BE MADE ACROSS THE SITE IN ONE DIRECTION AND THEN AT RIGHT ANGLES TO THE ORIGINAL DIRECTION OF ROLLING.

3. THE AREA FILLED SHOULD BE SPREAD IN LOOSE LIFTS [LAYERS] OF NOT MORE THAN EIGHT INCHES. EACH LIFT SHOULD BE ROLLED WITH A VIBRATORY ROLLER OR A SHEEPSFOOT ROLLER. EACH LIFT SHOULD BE COMPACTED TO A MINIMUM DENSITY OF 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D 698, CURRENT

4. THE FILL SOIL MOISTURE CONTENT SHOULD BE MAINTAINED WITHIN 3% OF THE OPTIMUM MOISTURE AS DETERMINED IN ACCORDANCE WITH ASTM D 698.

5. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND REMOVAL OF ALL EXISTING VEGETATION NECESSARY TO DEVELOP THE SITE. THE GENERAL CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE UPON COMPLETION OF THE PROJECT

6. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXACT LOCATIONS OF EXISTING UTILITIES AND IS RESPONSIBLE FOR ANY DAMAGE TO ANY UTILITIES, PUBLIC OR PRIVATE, SHOWN HEREON OR NOT SHOWN HEREON.

THE GENERAL CONTRACTOR SHALL CONTACT ALL OWNERS OF UTILITIES AND RIGHT-OF-WAYS, PUBLIC OR PRIVATE

PRIOR TO WORKING IN THESE AREAS. 8. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY, COUNTY, AND STATE OF GEORGIA SPECIFICATIONS AND

9. CONTRACTOR SHALL INSTALL SOIL EROSION AND SEDIMENTATION CONTROL DEVICES PRIOR TO GRADING OPERATIONS AND SHALL MAINTAIN THE DEVICES DURING

10. CONTRACTOR SHALL GRADE SITE TO ENSURE POSITIVE

11. ALL DEMOLISHING, REMOVING OR RELOCATION SHALL BE PERFORMED AT THE EXPENSE OF THE CONTRACTOR. 12. NOTIFY INSPECTOR 24 HRS. PRIOR TO EACH PHASE OF

13. ANY CHANGES TO CONSTRUCTION DOCUMENTS ARE SUBJECT TO APPROVAL PRIOR TO ACTUAL CONSTRUCTION.

14. DETENTION POND AND OUTLET STRUCTURES ARE TO BE INSTALLED AND FULLY OPERATIONAL PRIOR TO ANY OTHER

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

16. CONTRACTOR TO WORK FORM APPROVED "FOR

CONSTRUCTION.

CONSTRUCTION" DRAWINGS ONLY. 17. CONTRACTOR SHALL FILE ALL PAPERWORK FOR THE NO AND SHALL BE THE PRIMARY PERMITTEE. AS SUCH, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NPDES TESTING AND MONITORING REQUIREMENTS STATED ON THE CONSTRUCTION DOCUMENTS AND WITHIN STATE OF GEORGIA GENERAL PERMIT NO. 100001. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETION AND FILING OF NOTICE OF INTENT, NOTICE OF TERMINATION AND ALL OTHER REPORTING DOCUMENTS. ALL COSTS FOR TESTING, MONITORING, REPORTING, FEES AND FILING SHALL BE PAID BY THE CONTRACTOR.

NOTE: "I certify under penalty of law that this document was prepared after a site visit to the location described herein by myself or my authorized agent, under direct supervision. I am aware that there are significant penalties for submitted false information, including the possibility of fine and imprisonment for knowing violations.

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

NOTE: "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 Georgia Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted, provides for the sampling of the receiving water(s) or the sampling of the storm water outfalls and that the designed system of Best Management Practices and sampling methods is expected to meet the requirements contained in the General NPDES Permit No. GAR100001."

(signature)

GSWCC # 87461 EXPIRING 02/05/2026

24 HR. CONTACT MR. ROBERT WALKER, DIRECTOR OF MACON-BIBB RECREATION DEPARTMENT 150 WILLIE SMOKE GLOVER DRIVE MACON, GA. 31201 PHONE: 478-621-6279 EMAIL: RWALKER2@MACONBIBB.US

September 27, 2025

PRIMARY PERMITEE CONTACT PERSON: COMPANY:

ADDRESS: PHONE: FMAII

*CONTRACT TO COMPLETE ABOVE INFO. BEFORE COMMENCEMENT OF WORK

VEGETATIVE PLAN FOR AREAS DISTURBED DURING CONSTRUCTION/GRASSING NOTES

 INITIAL TREATMENT, SEEDBED PREPARATION: PREPARE SEEDBED TO A DEPTH OF AT LEAST 4". REMOVE ROCKS, ROOTS, OR OTHER OBJECTS THAT WILL INTERFERE WITH VEGETATION ESTABLISHMENT OR MAINTENANCE OPERATIONS.

2. FERTILIZER: APPLY AGRICULTURAL LIME AT THE RATE OF 1½ TONS PER ACRE. APPLY 1000 POUNDS 10-10-10 ANALYSIS FERTILIZER (OR EQUIVALENT) PER ACRE. SPREAD LIME AND FERTILIZER UNIFORMLY OVER ALL AREAS IMMEDIATELY BEFORE FINAL LAND PREPARATION AND MIX THOROUGHLY WITH THE SOIL. APPLY TOP DRESSING OF 100 POUNDS PER ACRE OF AMMONIUM NITRATE (OR EQUIVALENT) WHEN GRASS IS 2"-4" TALL.

3. PERMANENT SEEDING: ALL AREAS WILL BE SEEDED OR SODDED WITH THE FOLLOWING: 10 LB/ACRE RYE GRASS MIXED WITH 40 LB/ACRE OF UNHULLED COMMON BERMUDA GRASS BETWEEN 3/15 AND 4/30.

4. AREAS WILL HAVE TO BE REPLANTED VEGETATION IS DISTURBED.

5. PERMANENT VEGETATIVE COVER OF AT LEAST 80% IS REQUIRED. HYDROMULCH 1,200 LBS. PER ACRE. BALES- 1.5 TONS PER ACRE.

NOTE: 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 ACTIVITES.

NOTE: 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.

NOTE: WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

NOTE: AMENDMENTS/REVISIONS TO THE ES+PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

NOTE: NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50 FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25 FEET OF THE COASTAL MARSHLAND BUFFERED AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

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

06/07/2017

NOTE: WATER FROM THIS SITE FLOWS SOUTH INTO AN UNNAMED TRIBUTARY OF WALKER SWAMP, SAID TRIBUTARY FLOWS TO WALKER LAKES, WALKER LAKES FLOW INTO

NOTE: PROPERTY IS NOT LOCATED WITHIN 200' OF STATE WATERS

SOILS CHART CONGAREE SILT

NOTE: CONSTRUCTION ACTIVITY ON SITE WILL BE TO

NOTE: THE DESIGN PROFESSIONAL WHO PREPARED THE ES+PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BPMS WITHIN 7 DAYS AFTER INSTILLATION.

NOTE: PROPERTY IS NOT LOCATED WITHIN 200' OF STATE WATERS OR WETLANDS. NO BUFFER REQUIRED.

NOTE: STORMWATER MANAGEMENT AREA HAS BEEN INSTALLED DURING THE CONSTRUCTION PROCESS TO

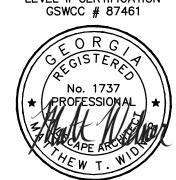
NOTE: BUILDING MATERIALS MUST BE COVERED WITH

NOTE: NO CONSTRUCTION ACTIVITIES OR BMPS WITHIN 1 LINEAR

TOTAL PARCEL AREA: 120 ACRES DISTURBED: 2.90 ACRES APPENDIX B RATIONALE: 75

1990-202

LEVEL II CERTIFICATION



THESE DOCUMENTS AS INSTRUMENTS OF SERVICE, REMAIN THE PROPERTY OF WIDNER AND ASSOCIATES, AND NO PART THEREOF MAY BE USED OF REPRODUCED IN ANY FORM WITHOUT

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WRITTEN PERMISSION.

NOTE: PART OF THIS PROPERTY LIES WITHIN A 100 YR FLOOD PLAIN REFER TO FEMA COMMUNITY MAP #-13021C0153G DATED:

Co 0 TO 2 PERCENT SLOPES, CONGAREE SILT

NOTE: THE ES+PC PLAN IS IN COMPLIANCE WITH WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANK REGULATIONS.

RENOVATE THE EXISTING SOFTBALL COMPLEX.

CONTROL POLLUTANTS IN STORMWATER THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED.

IMPERMEABLE COVERAGE WHILE ON SITE.

MILE UPSTREAM OF AN IMPAIRED STREAM SEGMENT. NO IMPAIRED STREAMS WILL BE AFFECTED.

DRAINAGE BASIN AREA: 2.90 ACRES (ALL AREAS STABILIZED EXCEPT THE DISTURBED 2.90 ACRES FOR THIS PROJECT.)

STAMP HERE FOR DEPARTMENT APPROVAL DRAWING NAME DRAWING #

REVISIONS:

09/26/2025 DRAWN BY: CHECKED BY: WTW PROJECT #:

9999-013

 \circ

SCALE: N/A

GUIDELINES FOR SAMPLING TURBIDITY.

a. SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING:

(1). A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAN A 1:24000 MAP SHOWING THE LOCATION OF THE SITE OR THE STAND ALONE CONSTRUCTION; (A) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP. AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION, INTO WHICH THE STORMWATER IS DISCHARGED AND (B) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS. WHEN THE PERMITTEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATER(S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP, THE LOCATION OF THE RECEIVING WATER(S) MUST BE HAND-DRAWN ON THE USGS TOPOGRAPHIC MAP FROM WHERE THE STORMWATER(S) ENTERS THE RECEIVING WATER(S) TO THE POINT WHERE THE RECEIVING WATER(S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS

TOPOGRAPHIC MAP; (2). A WRITTEN NARRATIVE OF SITE SPECIFIC ANALYTICAL METHODS USED TO COLLECT, HANDLE AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION;

(3). WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE SAMPLED, A RATIONALE MUST BE INCLUDED ON THE PLAN FOR THE NTU LIMIT(S) SELECTED FROM APPENDIX THIS RATIONALE MUST INCLUDE THE SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATER(S) (I.E., TROUT STREAM OR SUPPORTING WARM WATER FISHERIES): AND (4). ANY ADDITIONAL INFORMATION EPD DETERMINES NECESSARY TO BE PART OF THE PLAN. EPD WILL PROVIDE WRITTEN NOTICE TO THE PERMITTEE OF THE INFORMATION NECESSARY AND THE TIMELINE FOR

b. SAMPLE TYPE. ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

(1). SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES. (2). SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.

(3). LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION. (4). MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. IF AUTOMATIC SAMPLING IS UTILIZED AND THE AUTOMATIC SAMPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT. THE PERMITTEE MUST UTILIZE MANUAL SAMPLING OR RISING STAGE SAMPLING DURING THE NEXT QUALIFYING EVENT. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT

(5), SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.

c. SAMPLING POINTS.

REQUIRED TO BE COOLED.

SUBMITTAL.

(1). FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). SAMPLING POINTS SHALL BE LOCATED ON APPLICABLE PAGES OF THE INITIAL, INTERMEDIATE, AND FINAL PHASE OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS. SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORMWATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES: (A). THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORMWATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORMWATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY, WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE. (B). THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORMWATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORMWATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE. (C). IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL

AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORMWATER OUTFALL CHANNEL(S). (D). CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM

SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORMWATER CHANNEL. (E). THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE

ÓPENING FACES UPSTREAM. (F). THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS. (G). PERMITTEES DO NOT HAVE TO SAMPLE SHEET FLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES AND AREAS LOCATED OUTSIDE THE WASTE DISPOSAL LIMITS OF A LANDFILL CELL THAT HAS BEEN CERTIFIED BY EPD FOR WASTE DISPOSAL, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPED ACCORDING TO THE PLAN (UNIFORMLY COVERED WITH LANDSCAPING MATERIALS IN PLANNED LANDSCAPED AREAS), OR EQUIVALENT PERMANENT STABILIZATION MEASURES AS DEFINED IN THE MANUAL (EXCLUDING A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS

APPROPRIATE FOR THE REGION). (H). ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORMWATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS III.D.4. OR III.D.5., WHICHEVER IS APPLICABLE.

SAMPLING REQUIREMENTS CONTINUED:

D. SAMPLING FREQUENCY.

. 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.

(2). HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORMWATER DISCHARGÉ.

(3). SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS:

(A). FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH ASTORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION;

(B). IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL. THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED. BUT PRIOR TO SUBMITTAL OF A NOT, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION. WHICHEVER COMES FIRST:

(C). AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS* UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-RAIN EVENT INSPECTIONS DETERMINE THAT BMPS ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED;

(D). WHERE SAMPLING PURSUANT TO (A), (B) OR (C) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITTEE, IN ACCORDANCE WITH PART IV.D.4.A.(6), MUST INCLUDE A WRITTEN JUSTIFICATION IN THF INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (A), (B) OR (C) ABOVE; AND

(E). EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE. *NOTE THAT THE PERMITTÉE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5

INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF THE DAY OR

PRODUCT SPECIFIC PRACTICES:

SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT, EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATERS, NATURAL DRAINS AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

2. PAINTS/FINISHES/SOLVENTS- ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS

3. CONCRETE TRUCK WASHING- NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONSITE.

4. FERTILIZER/HERBICIDES- THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.

5. BUILDING MATERIALS- NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

NO WASTE WILL BE DISPOSED OF INTO STORM WATER INLETS OR

WASTE MATERIALS

1. ALL WASTE MATERIAL WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE A WEEK OR MORE OFTEN IF NECESSARY AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS, NO CONSTRUCTION WASTE WILL BE BURIED ONSITE.

ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOBSITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

EROSION NOTES:

1. ALL AREAS SHALL BE GRASSED WITH PERMANENT GRASSING AS SOON AFTER CONSTRUCTION AS PRACTICAL, REFER TO VEGETATIVE PLAN THIS SHEET FOR TYPES/RATES FOR PLANTING QUANTITIES.

2. SEDIMENT AND SOIL EROSION MEASURES SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITIES TAKING PLACE, EXCEPT THOSE CONSTRUCTION ACTIVITIES NECESSARY TO INSTALL SUCH MEASURES, AND SHALL BE FULLY OPERATIONAL DURING

3. EROSION CONTROL DEVICES SHALL BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION.

4. REMOVE ALL ACCUMULATED SILT IN DETENTION POND/SEDIMENT POND WEEKLY AND AT THE END OF CONSTRUCTION, WHEN DISTURBED AREAS HAVE BEEN STABILIZED.

5. DO NOT BRING TOPSOIL ON SITE EXCEPT WITHIN 24 HOURS OF INTENDED USE.

6. BACKFILL AND STABILIZE TRENCHES AND PITS PROMPTLY BY MODIFIED PROCTOR COMPACTION @ 2%± OPTIMUM MOISTURE CONTENT AND GRASSING, AS NECESSARY.

7. MAXIMUM CUT OR FILL SLOPE IS 3:1 UNLESS OTHERWISE NOTED ON

8. DO NOT DESTROY, REMOVE, OR DISTURB VEGETATIVE GROUND COVER MORE THAN 20 CALENDAR DAYS BEFORE GRADING OR EARTH

9. ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND

10. VEGETATION: STRIPPING OF VEGETATION, REGRADING AND OTHER DEVELOPMENT ACTIVITIES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO MINIMIZE FROSION. WHENEVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED, PROTECTED AND SUPPLEMENTED.

11. DISTURBED SOIL: THE DISTURBED AREA AND THE DURATION OF EXPOSURE TO EROSIVE ELEMENTS SHALL BE STABILIZED AS QUICKLY AS PRACTICABLE. TEMPORARY VEGETATION OR MULCHING SHALL BE EMPLOYED TO PROTECT EXPOSED CRITICAL AREAS DURING DEVELOPMENT.

12. SURFACE RUN-OFF-WATER: SEDIMENT IN RUN-OFF WATER MUST BE TRAPPED BY THE USE OF SILT FENCES, HAY BALES OR SIMILAR MEASURES UNTIL THE DISTURBED AREA IS STABILIZED. ADEQUATE PROVISIONS MUST BE PROVIDED TO MINIMIZE DAMAGE FROM SURFACE WATER TO THE CURB FACE OF EXCAVATIONS OR THE SLOPING SURFACES OF FILL.

13. MAINTENANCE; THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROL MEASURES AND STRUCTURES WHETHER TEMPORARY OR PERMANENT. IT WILL BE THI SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO IMPLEMENT ADEQUATE SOIL EROSION AND SEDIMENT CONTROL PROCEDURES FOR THIS PROJECT, ADDITIONAL MEASURES, BEYOND WHAT IS SHOWN ON THIS DRAWING. MAY BE NECESSARY TO INSURE THAT SUFFICIENT SOIL EROSION AND SEDIMENT CONTROL PROTECTION IS PROVIDED.

14. CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES AROUND THE WORK AND SHALL PROVIDE PROTECTION AGAINST WATER DAMAGE AND EROSION.

15. ALL CUT AND FILL SLOPES MUST BE SURFACED ROUGHENED AND VEGETATED WITHIN SEVEN DAYS OF THEIR CONSTRUCTION. 16. ALL FILL SLOPES WILL HAVE SILT FENCE AT TOE OF SLOPES.

17. A 25 TO 50 FOOT UNDISTURBED VEGETATIVE BUFFER ADJACENT TO ALL RUNNING STREAMS AND CREEKS WILL BE LEFT AND

18. TEMPORARY GRASSING TO BEGIN WITHIN TWO WEEKS AFTER COMPLETION OF INITIAL GRADING, OR ACTIVITY IS DISCONTINUED FOR A PERIOD OF TWO WEEKS OR LONGER.

<u>HAZARDOUS WASTES:</u>

1. ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED, WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS'S) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. AN MSDS WILL BE POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCT IS STORED AND/OR USED AND ANOTHER COPY OF EACH MSDS WILL BE MAINTAINED IN THE ESPCP FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND THE SPECIFIC INFORMATION IN APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.

2. THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THIS ESPCP AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEAN UP AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR HAZARDOUS WASTES WILL BE ALLOWED TO COME IN CONTACT WITH STORM WATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORM WATER DISCHARGE WILL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSED OF SUCH CONTAMINATED STORM WATER. IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC

SANITARY WASTES:

1. A MINIMUM OF ONE PORTABLE SANITARY UNIT WILL BE PROVIDED FOR EVERY TEN (10) WORKERS ON THE SITE. ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS.

2. ALL SANITARY UNITS WILL BE LOCATED IN AN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORM WATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMP'S MUST BE IMPLEMENTED, SUCH AS GRAVEL BAGS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE, TO PREVENT WASTES FROM CONTRIBUTING TO STORM WATER DISCHARGES. THE LOCATION OF SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE EROSION SEDIMENT CONTROL PLAN GRADING PHASE. SHEET C-1 BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED.

3. SANITARY SEWER WILL BE PROVIDED BY MUNICIPAL AUTHORITY/SEPTIC SYSTEM AT THE COMPLETION OF THIS PROJECT.

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 PFRIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORMWATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G.2. SAMPLING REPORTS MUST BE SUBMITTED TO EPD USING THE ELECTRONIC SUBMITTAL SERVICE PROVIDED BY EPD. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART

2. ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:

- a. THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS;
- b. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
- c. THE DATE(S) ANALYSES WERE PERFORMED;
- d. THE TIME(S) ANALYSES WERE INITIATED; e. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;
- f. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED:
- g. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER
- DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS; h. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS
- "EXCEEDS 1000 NTU:" AND i. CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS

PER THE PLAN. 3. ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE EPD DISTRICT OFFICE OR DELIVERY RECEIPT EMAIL TO THE APPROPRIATE EPD DISTRICT OFFICE RESOURCE MAILBOX ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN

ACCORDANCE WITH PART VI.

a. PERMITTEE REQUIREMENTS. (1). EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TÁKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT: (A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT AND (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(2). MEASURE AND RECORD RAINFALL WITHIN DISTURBED AREAS OF THE SITE THAT HAVE NOT MET FINAL STABILIZATION ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY NONWORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY. THE DATA COLLECTED FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.

(3). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY

PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS: (A) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE; (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION: AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. CERTIFIED PERSONNEL SHALL ALSO CONDUCT INSPECTIONS WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST). POST-RAIN INSPECTIONS WILL RESET THE 7-DAY INSPECTION FREQUENCY REQUIREMENT. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE. THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(4). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION HAS BEEN SUBMITTED) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).

(5). BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.

(6). A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(5). OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION SITE THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY

INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A CERTIFICATION THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2. OF

RETENTION OF RECORDS:

1. The Primary Permittee shall retain the following records at the construction site or the records shall be readily available at a desianated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:

- a. A copy of all Notices of Intent submitted to EPD; b. A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit:
- c. The design professional's report of the results of the inspection conducted in accordance with Part IV.A.5. of this permit; d. A copy of all sampling information, results, and reports required by

generated in accordance with Part III.D. of this permit; and

g. Daily rainfall information collected in accordance with Part

- e. A copy of all inspection reports generated in accordance with Part IV.D.4.a. of this permit; f. A copy of all violation summaries and violation summary reports
- IV.D.4.a.(2). of this permit. 2. Copies of all Notices of Intent, Notices of Termination, inspection reports, sampling reports (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) or other reports requested by the EPD, Erosion, Sedimentation and Pollution Control Plans, records of all data used to complete the Notice of Intent to be covered by this permit and all other records required by this permit shall be retained by the permittee who either produced or used it for a period of at least three years from the date that the NOT is submitted in accordance with Part VI. of this permit. These records must be maintained at the permittee's primary place of business or at a designated alternative location once the construction activity has ceased at the permitted site. This period may be extended by request of the EPD at any time upon written notification to the permittee.

STANDARD PERMIT CONDITIONS:

(A.) DUTY TO COMPLY.

1. EACH PERMITEE MUST COMPLY WITH ALL APPLICABLE CONDITIONS OF THIS PERMIT.ANY PERMIT NONCOMPLIANCE CONSTITUTES A VIOLATION OF THE GEORGIA WATER QUALITY CONTROL ACT (O.C.G.A. 12-5-20, ET SEQ.) AND IS GROUNDS FOR ENFORCEMENT ACTION; FOR PERMIT TERMINATION; OR FOR DETAIL OF A PERMIT RENEWAL APPLICATION. FAILURE OF A PRIMARY PERMITEE TO COMPLY WITH ANY APPLICABLE TERM OR CONDITION OF THIS PERMIT SHALL NOT RELIEVE ANY OTHER PRIMARY PERMITEE FROM COMPLIANCE WITH THEIR APPLICABLE TERMS AND CONDITIONS OF THIS PERMIT.

2. EACH PERMITEE MUST DOCUMENT IN THEIR RECORDS ANY AND ALL KNOWN VIOLATIONS OF THIS PERMIT AT HIS/HER SITE WITHIN SEVEN (7) DAYS OF HIS/HER KNOWLEDGE OF THE VIOLATION. A SUMMARY OF THESE VIOLATIONS MUST BE SUBMITTED TO EPD EPD BY THE PERMITEE AT THE ADDRESSES SHOWN IN PART II.C. WITHIN FOURTEEN (14) DAYS OF HIS/HER DISCOVERY OF THE

3. PENALTIES FOR VIOLATIONS OF PERMIT CONDITIONS. THE FEDERAL CLEAN WATER ACT AND THE GEORGIA WATER QUALITY CONTROL ACT (O.C.G.A. 12-5-20, ET. SEQ.) PROVIDE THAT ANY PERSON WHO FALSIFIES, TAMPERS WITH, OR KNOWINGLY RENDERS INACCURATE ANY MONITORING DEVICE OR METHOD REQUIRED TO BE MAINTAINED UNDER THIS PERMIT, MAKES ANY FALSE STATEMENT, REPRESENTATION, OR CERTIFICATION IN ANY OR OTHER DOCUMENT SUBMITTED OR REQUIRED TO BE MAINTAINED UNDER THIS PERMIT, INCLUDING MONITORING REPORTS OR REPORTS OF COMPLIANCE OR NONCOMPLIANCE SHALL, UPON CONVICTION BE PUNISHED BY A FINE OR BY IMPRISONMENT, OR BY BOTH. THE FEDERAL CLEAN WATER ACT AND THE GEORGIA WATER QUALITY CONTROL ACT ALSO PROVIDE PROCEDURES FOR IMPOSING CIVIL PENALTIES WHICH MAY BE LEVIED FOR VIOLATIONS OF THE ACTS. ANY PERMIT CONDITION OR LIMITATION ESTABLISHED PURSUANT TO THE ACTS, OR NEGLIGENTLY OR INTENTIONALLY FAILING OR REFUSING TO COMPLY WITH ANY FINAL OR EMERGENCY ORDER OF THE DIRECTOR.

(B.) CONTINUATION OF THE EXPIRED GENERAL PERMIT

THIS PERMIT EXPIRES ON THE DATE SHOWN ON THE COVER PAGE THIS PERMIT. HOWEVER. AN EXPIRED GENERAL PERMIT CONTINUES IN FORCE AND EFFECT UNTIL A NEW GENERAL PERMIT IS ISSUED, FINAL AND EFFECTIVE. FACILITIES THAT HAVE NOT OBTAINED COVERAGE UNDER THE PERMIT BY THE PERMIT EXPIRATION DATE CANNOT BECOME AUTHORIZED TO DISCHARGE UNDER THE CONTINUED PERMIT.

(C.) NEED TO HALT OR REDUCE ACTIVITY NOT A DEFENSE. IT SHALL NOT BE A DEFENSE FOR THE PERMITEE IN AN

ENFORCEMENT ACTION THAT IT WOULD HAVE BEEN NECESSARY TO

HALT OR REDUCE THE PERMITTED ACTIVITY IN ORDER TO

MAINTAIN COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT.

(D.) DUTY TO MITIGATE.

THE PERMITEE SHALL TAKE ALL REASONABLE STEPS TO MINIMIZE OR PREVENT ANY DISCHARGE IN VIOLATION OF THIS PERMIT WHICH HAS A REASONABLE LIKELIHOOD OF ADVERSELY AFFECTING HUMAN HEALTH OR THE ENVIRONMENT.

(E.) DUTY TO PROVIDE INFORMATION.

THE PERMITEE SHALL FURNISH TO THE DIRECTOR; A STATE OR LOCAL AGENCY APPROVING SEDIMENT AND EROSION PLANS, GRADING PLANS, OR STORM WATER MANAGEMENT PLANS; OR IN THE CASE OF A STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY WHICH DISCHARGES THROUGH A MUNICIPAL SEPARATE STORM WATER SYSTEM WITH AN NPDES PERMIT. TO THE LOCAL GOVERNMENT OPERATING THE MUNICIPAL SEPARATE STORM SEWER SYSTEM, ANY INFORMATION WHICH IS REQUESTED TO DETERMINE COMPLIANCE WITH THIS PERMIT. IN THE CASE OF INFORMATION SUBMITTED TO THE EPD SUCH INFORMATION SHALL BE CONSIDERED PUBLIC INFORMATION AND AVAILABLE UNDER THE GEORGIA OPEN RECORDS ACT.

SOIL CLEANUP AND CONTROL POLICIES:

1. LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE AVAILABLE TO SITE PERSONNEL.

2. MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.

3. SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.

4. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE SND FEDERAL REGULATIONS.

5. FOR ALL SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802.

6. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS.

SOIL CLEANUP AND CONTROL POLICIES (CONTINUED):

7. FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 650 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.

GENERAL NOTES:

1. CONTRACTOR SHALL INSTALL SILT FENCE SEDIMENT BARRIER PRIOR TO GRADING OPERATIONS. A SEDIMENT TRAP SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS AT ALL DROP INLETS AND CURB INLETS AND SHALL BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION. CONTRACTOR SHALL CONSTRUCT A TEMPORARY CONSTRUCTION EXIT, IT SHALL BE 6" THICK AND SHALL BE CONSTRUCTED WITH STONE CONFORMING TO ASTM D448 SIZE

2. THE SUB GRADE AREAS SHALL BE PREPARED USING THE FOLLOWING PROCEDURE AS A MINIMUM REQUIREMENT. REMOVE ALL ORGANIC MATTER, STUMPS AND OTHER DELETERIOUS MATTER. PROOF ROLL THE AREAS TO BE FILLED OR ON WHICH STRUCTURES ARE TO BE PLACED WITH A LOADED DUMP TRUCK OR OTHER RUBBER TIRED EQUIPMENT. OVERLAPPING PASSES OF THE VEHICLE SHOULD BE MADE ACROSS THE SITE IN ONE DIRECTION AND THEN AT RIGHT ANGLES TO THE ORIGINAL DIRECTION OF ROLLING.

3. THE AREA FILLED SHOULD BE SPREAD IN LOOSE LIFTS [LAYERS] OF NOT MORE THAN EIGHT INCHES. EACH LIFT SHOULD BE ROLLED WITH A VIBRATORY ROLLER OR A SHEEPSFOOT ROLLER, EACH LIFT SHOULD BE COMPACTED TO A MINIMUM DENSITY OF 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D 698, CURRENT FDITION COMPACTION TO BE 98% OF MAXIMUM DRY DENSITY BELOW BUILDING FOUNDATIONS AND WITHIN 1 FOOT OF FINISHED PAVEMENT SUBGRADE. FILL TO BE LIMITED TO LIFTS OF 4 WHERE COMPACTED BY HAND-GUIDED EQUIPMENT.

4. THE FILL SOIL MOISTURE CONTENT SHOULD BE MAINTAINED WITHIN 3% OF THE OPTIMUM MOISTURE AS DETERMINED IN ACCORDANCE WITH ASTM D 698.

5. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND REMOVAL OF ALL EXISTING VEGETATION NECESSARY TO DEVELOP THE SITE. THE GENERAL CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE UPON COMPLETION OF THE PROJECT.

6. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXACT LOCATIONS OF EXISTING UTILITIES AND IS RESPONSIBLE FOR ANY DAMAGE TO ANY UTILITIES, PUBLIC OR PRIVATE, SHOWN HEREON OR NOT SHOWN HEREON.

OF UTILITIES AND RIGHT-OF-WAYS, PUBLIC OR PRIVATE PRIOR TO WORKING IN THESE AREAS. 8. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY, COUNTY, AND STATE OF GEORGIA SPECIFICATIONS AND

7. THE GENERAL CONTRACTOR SHALL CONTACT ALL OWNERS

9. CONTRACTOR SHALL INSTALL SOIL EROSION AND SEDIMENTATION CONTROL DEVICES PRIOR TO GRADING OPERATIONS AND SHALL MAINTAIN THE DEVICES DURING

REQUIREMENTS.

DRAINAGE.

CONSTRUCTION.

CONSTRUCTION.

CONSTRUCTION 10. CONTRACTOR SHALL GRADE SITE TO ENSURE POSITIVE

11. ALL DEMOLISHING, REMOVING OR RELOCATION SHALL BE PERFORMED AT THE EXPENSE OF THE CONTRACTOR. 12. NOTIFY INSPECTOR 24 HRS. PRIOR TO EACH PHASE OF

13. ANY CHANGES TO CONSTRUCTION DOCUMENTS ARE SUBJECT TO APPROVAL PRIOR TO ACTUAL CONSTRUCTION. 14. DETENTION POND AND OUTLET STRUCTURES ARE TO BE INSTALLED AND FULLY OPERATIONAL PRIOR TO ANY OTHER

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

16. CONTRACTOR TO WORK FROM APPROVED "FOR

CONSTRUCTION" DRAWINGS ONLY." FIELD QUALITY CONTROL TESTING AND INSPECTIONS DURING CONSTRUCTION: (1) QUALITY CONTROL TESTING AND INSPECTIONS SHALL BE PERFORMED BY AN AGENCY SELECTED AND PAID BY THE OWNER.CONTRACTOR IS RESPONSIBLE TO COORDINATE SCHEDULING OF REQUIRED TESTING AND INSPECTION AND MITIGATE AS INSTRUCTED BY THE TESTING AGENCY. APPROVED TESTING SERVICE TO INSPECT AND APPROVE SUBGRADES AND FILL LAYER BEFORE FURTHER CONSTRUCTION WORK ERFORMED THEREON.(2) REFER TO STRUCTURAL PLANS AND SPECIFICATIONS FOR TESTING REQUIRED FOR BUILDING FOUNDATIONS. (3) TESTING AND INSPECTION AGENCY SHALL CONTINUOUSLY OBSERVE SPECIFIED PROOFROLL.(4) PERFORM FIELD DENSITY TESTS IN ACCORDANCE WITH ASTM D 1556 (SAND CONE METHOD) OR ASTM D 2922 (NUCLEAR METHOD), OR OTHER METHODS APPROVED BY ARCHITECT.(5) EXCAVATION AREAS: MAKE MIN. ONE (1) FIELD DENSITY TEST EVERY 2500 S.F. OF SUBGRADE AND EACH SUBSEQUENT OVERLAYING AREA, BUT MIN. TOTAL OF THREE (3) TESTS.(6) FILL AREAS: IN EACH COMPACTED FILL LAYER, MAKE MIN ONE (1) FIELD DENSITY TEST EVERY 2500 S.F. OF SUBGRADE AND EACH SUBSEQUENT OVERLAYING AREA, BUT MIN. TOTAL OF THREE (3) TESTS PER LAYER.

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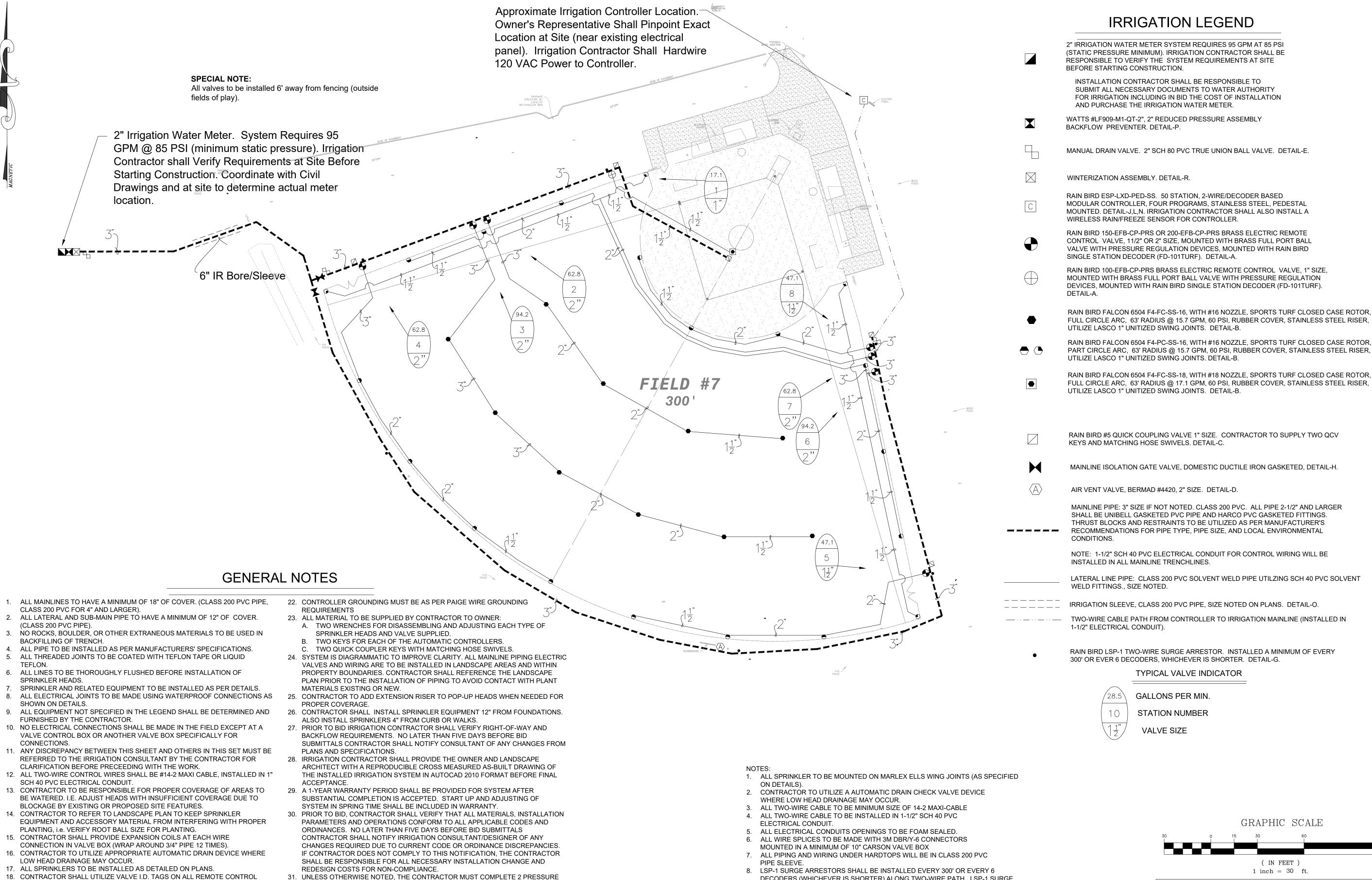
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LEVEL II CERTIFICATION GSWCC # 87461 GISTER No. 1737 PROFESSIONAL

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09/26/2025 SCALE: N/A



TESTS OF THE IRRIGATION SYSTEM MAINLINE (BOTH TO SHOW NO DROP IN

A. 2-HOUR PRESSURE TEST AT 1.5 TIMES THE SYSTEM STATIC PRESSURE

COLOR-CODED ZONES DIAGRAM PLAN, 8-1/2"X11" LAMINATED SHEET(S), TO

IDENTIFY CONTROLLER STATION TO THE CONTROL VALVE NUMBER FOR EACH CONTROLLER. TO BE LOCATED IN ADHESIVE POUCH ATTACHED INSIDE OF

B. 24-HOUR PRESSURE TEST AT THE SYSTEM STATIC PRESSURE

32. IRRIGATION INSTALLATION CONTRACTOR SHALL PROVIDE OWNER WITH A

PRESSURE DURING DURATION OF TEST.

CONTROLLER(S).

VALVES.

19. CONTOL WIRE SHALL BE COLOR CODED PER SEPARATE WIRE RUNS.

21. CONTRACTOR SHALL INSTALL MANUFACTURERS' RECOMMENDATION

GROUNDING EQUIPMENT FOR POWER SUPPLY AND VALVE OUTPUT WITH

20. CONTRACTOR SHALL INSTALL MANUFACTURERS' RECOMMENDED

PAIGE WIRE GROUND PLATE ASSEMBLY.

Know what's **below**. Call before you dig

ON FAULT GROUND AND LIGHTNING PROTECTION.

DECODERS (WHICHEVER IS SHORTER) ALONG TWO-WIRE PATH. LSP-1 SURGE

CABLE PATHS (STAR CONFIGURATION). REFER TO DETAIL-G.

SIZING, WIRE LENGTH OF RUNS, GROUNDING, ETC).

INSTALLATION CONTRACTOR SHALL ADHERE TO ALL MANUFACTURER

SPECIFICATIONS FOR TWO-WIRE CONTROL SYSTEM INSTALLATION (WIRE

ARRESTORS SHALL ALSO BE INSTALLED AT ALL TERMINAL ENDS OF TWO-WIRE

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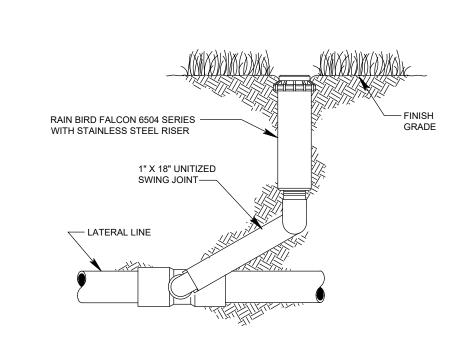
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LEVEL II CERTIFICATION

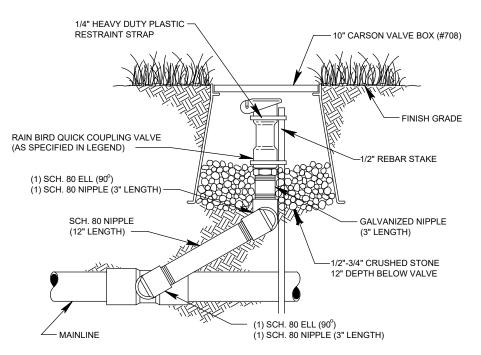
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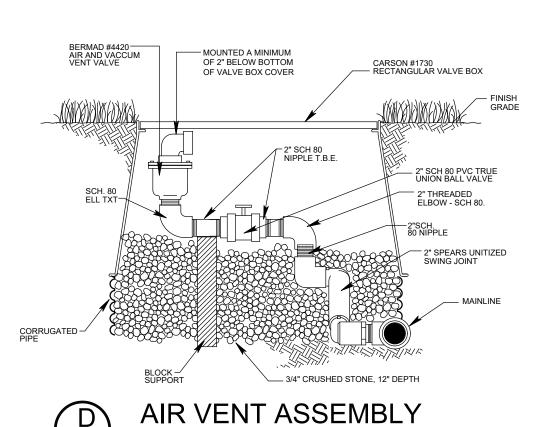


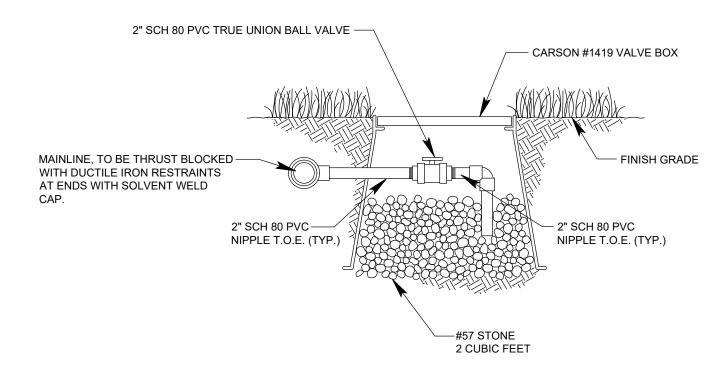
CONTRACTOR SHALL VERIFY IF

OWNER WANTS QUICK COUPLER VALVES IN FIELD OF PLAY

NSTALLED IN VALVE BOX OR NOT





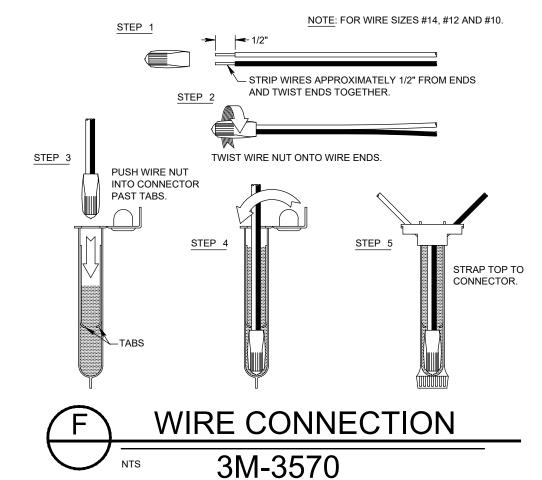




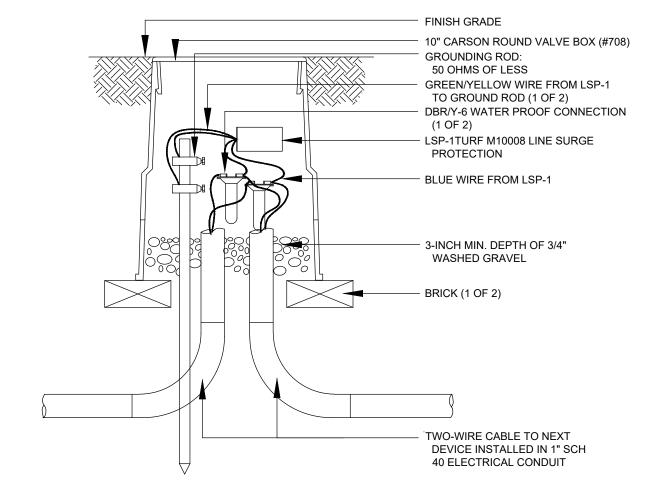
CLASS 200 PVC FOR 4" AND LARGER).

(CLASS 200 PVC PIPE).

BACKFILLING OF TRENCH.



GENERAL NOTES 1. ALL MAINLINES TO HAVE A MINIMUM OF 18" OF COVER. (CLASS 200 PVC PIPE, REQUIREMENTS 2. ALL LATERAL AND SUB-MAIN PIPE TO HAVE A MINIMUM OF 12" OF COVER.



- 1. LSP-1 SHOULD BE INSTALLED EVERY 500 FT ON TWO-WIRE PATH OR EVERY 8 DECODERS (WHICHEVER IS SHORTER). 2. LSP-1 TO BE INSTALLED AT END OF WIRE RUN THAT TERMINES IN THE FIELD
- SURGE PROTECTION TO TWO-WIRE PATH

(STAR CONFIGURATION).



4. ALL PIPE TO BE INSTALLED AS PER MANUFACTURERS' SPECIFICATIONS.

3. NO ROCKS, BOULDER, OR OTHER EXTRANEOUS MATERIALS TO BE USED IN

- 5. ALL THREADED JOINTS TO BE COATED WITH TEFLON TAPE OR LIQUID
- 6. ALL LINES TO BE THOROUGHLY FLUSHED BEFORE INSTALLATION OF SPRINKLER HEADS. SPRINKLER AND RELATED EQUIPMENT TO BE INSTALLED AS PER DETAILS.
- 8. ALL ELECTRICAL JOINTS TO BE MADE USING WATERPROOF CONNECTIONS AS SHOWN ON DETAILS. 9. ALL EQUIPMENT NOT SPECIFIED IN THE LEGEND SHALL BE DETERMINED AND FURNISHED BY THE CONTRACTOR.
- 10. NO ELECTRICAL CONNECTIONS SHALL BE MADE IN THE FIELD EXCEPT AT A VALVE CONTROL BOX OR ANOTHER VALVE BOX SPECIFICALLY FOR CONNECTIONS
- 11. ANY DISCREPANCY BETWEEN THIS SHEET AND OTHERS IN THIS SET MUST BE REFERRED TO THE IRRIGATION CONSULTANT BY THE CONTRACTOR FOR CLARIFICATION BEFORE PRECEEDING WITH THE WORK.
- 12. ALL TWO-WIRE CONTROL WIRES SHALL BE #14-2 MAXI CABLE, INSTALLED IN 1" SCH 40 PVC ELECTRICAL CONDUIT.
- 13. CONTRACTOR TO BE RESPONSIBLE FOR PROPER COVERAGE OF AREAS TO BE WATERED. I.E. ADJUST HEADS WITH INSUFFICIENT COVERAGE DUE TO BLOCKAGE BY EXISTING OR PROPOSED SITE FEATURES.
- 14. CONTRACTOR TO REFER TO LANDSCAPE PLAN TO KEEP SPRINKLER EQUIPMENT AND ACCESSORY MATERIAL FROM INTERFERING WITH PROPER PLANTING, i.e. VERIFY ROOT BALL SIZE FOR PLANTING.
- 15. CONTRACTOR SHALL PROVIDE EXPANSION COILS AT EACH WIRE CONNECTION IN VALVE BOX (WRAP AROUND 3/4" PIPE 12 TIMES).
- 16. CONTRACTOR TO UTILIZE APPROPRIATE AUTOMATIC DRAIN DEVICE WHERE LOW HEAD DRAINAGE MAY OCCUR. 17. ALL SPRINKLERS TO BE INSTALLED AS DETAILED ON PLANS.
- 18. CONTRACTOR SHALL UTILIZE VALVE I.D. TAGS ON ALL REMOTE CONTROL VALVES. 19. CONTOL WIRE SHALL BE COLOR CODED PER SEPARATE WIRE RUNS.
- 20. CONTRACTOR SHALL INSTALL MANUFACTURERS' RECOMMENDED GROUNDING EQUIPMENT FOR POWER SUPPLY AND VALVE OUTPUT WITH PAIGE WIRE GROUND PLATE ASSEMBLY.
- 21. CONTRACTOR SHALL INSTALL MANUFACTURERS' RECOMMENDATION ON FAULT GROUND AND LIGHTNING PROTECTION.

- 22. CONTROLLER GROUNDING MUST BE AS PER PAIGE WIRE GROUNDING
- 23. ALL MATERIAL TO BE SUPPLIED BY CONTRACTOR TO OWNER: A. TWO WRENCHES FOR DISASSEMBLING AND ADJUSTING EACH TYPE OF SPRINKLER HEADS AND VALVE SUPPLIED.
- B. TWO KEYS FOR EACH OF THE AUTOMATIC CONTROLLERS. C. TWO QUICK COUPLER KEYS WITH MATCHING HOSE SWIVELS
- 24. SYSTEM IS DIAGRAMMATIC TO IMPROVE CLARITY. ALL MAINLINE PIPING ELECTRIC VALVES AND WIRING ARE TO BE INSTALLED IN LANDSCAPE AREAS AND WITHIN PROPERTY BOUNDARIES. CONTRACTOR SHALL REFERENCE THE LANDSCAPE PLAN PRIOR TO THE INSTALLATION OF PIPING TO AVOID CONTACT WITH PLANT MATERIALS EXISTING OR NEW.
- 25. CONTRACTOR TO ADD EXTENSION RISER TO POP-UP HEADS WHEN NEEDED FOR
- PROPER COVERAGE 26. CONTRACTOR SHALL INSTALL SPRINKLER EQUIPMENT 12" FROM FOUNDATIONS.
- ALSO INSTALL SPRINKLERS 4" FROM CURB OR WALKS. 27. PRIOR TO BID IRRIGATION CONTRACTOR SHALL VERIFY RIGHT-OF-WAY AND BACKFLOW REQUIREMENTS. NO LATER THAN FIVE DAYS BEFORE BID SUBMITTALS CONTRACTOR SHALL NOTIFY CONSULTANT OF ANY CHANGES FROM
- 28. IRRIGATION CONTRACTOR SHALL PROVIDE THE OWNER AND LANDSCAPE ARCHITECT WITH A REPRODUCIBLE CROSS MEASURED AS-BUILT DRAWING OF THE INSTALLED IRRIGATION SYSTEM IN AUTOCAD 2010 FORMAT BEFORE FINAL ACCEPTANCE.
- 29. A 1-YEAR WARRANTY PERIOD SHALL BE PROVIDED FOR SYSTEM AFTER SUBSTANTIAL COMPLETION IS ACCEPTED. START UP AND ADJUSTING OF SYSTEM IN SPRING TIME SHALL BE INCLUDED IN WARRANTY.

PLANS AND SPECIFICATIONS.

- 30. PRIOR TO BID, CONTRACTOR SHALL VERIFY THAT ALL MATERIALS, INSTALLATION PARAMETERS AND OPERATIONS CONFORM TO ALL APPLICABLE CODES AND ORDINANCES. NO LATER THAN FIVE DAYS BEFORE BID SUBMITTALS CONTRACTOR SHALL NOTIFY IRRIGATION CONSULTANT/DESIGNER OF ANY CHANGES REQUIRED DUE TO CURRENT CODE OR ORDINANCE DISCREPANCIES IF CONTRACTOR DOES NOT COMPLY TO THIS NOTIFICATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY INSTALLATION CHANGE AND REDESIGN COSTS FOR NON-COMPLIANCE.
- 31. UNLESS OTHERWISE NOTED, THE CONTRACTOR MUST COMPLETE 2 PRESSURE TESTS OF THE IRRIGATION SYSTEM MAINLINE (BOTH TO SHOW NO DROP IN PRESSURE DURING DURATION OF TEST.

A. 2-HOUR PRESSURE TEST AT 1.5 TIMES THE SYSTEM STATIC PRESSURE

B. 24-HOUR PRESSURE TEST AT THE SYSTEM STATIC PRESSURE 32. IRRIGATION INSTALLATION CONTRACTOR SHALL PROVIDE OWNER WITH A COLOR-CODED ZONES DIAGRAM PLAN, 8-1/2"X11" LAMINATED SHEET(S), TO IDENTIFY CONTROLLER STATION TO THE CONTROL VALVE NUMBER FOR EACH CONTROLLER. TO BE LOCATED IN ADHESIVE POUCH ATTACHED INSIDE OF CONTROLLER(S).

IRRIGATION LEGEND

2" IRRIGATION WATER METER SYSTEM REQUIRES 95 GPM AT 85 PSI (STATIC PRESSURE MINIMUM). IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE SYSTEM REQUIREMENTS AT SITE BEFORE STARTING CONSTRUCTION.

INSTALLATION CONTRACTOR SHALL BE RESPONSIBLE TO SUBMIT ALL NECESSARY DOCUMENTS TO WATER AUTHORITY FOR IRRIGATION INCLUDING IN BID THE COST OF INSTALLATION

WATTS #LF909-M1-QT-2", 2" REDUCED PRESSURE ASSEMBLY BACKFLOW PREVENTER. DETAIL-P.

AND PURCHASE THE IRRIGATION WATER METER.

MANUAL DRAIN VALVE. 2" SCH 80 PVC TRUE UNION BALL VALVE. DETAIL-E.

WINTERIZATION ASSEMBLY. DETAIL-Q.

RAIN BIRD ESP-LXD-PED-SS. 50 STATION, 2-WIRE/DECODER BASED MODULAR CONTROLLER, FOUR PROGRAMS, STAINLESS STEEL, PEDESTAL MOUNTED. DETAIL-J,L,N. IRRIGATION CONTRACTOR SHALL ALSO INSTALL A WIRELESS RAIN/FREEZE SENSOR FOR CONTROLLER.

RAIN BIRD 150-EFB-CP-PRS OR 200-EFB-CP-PRS BRASS ELECTRIC REMOTE CONTROL VALVE, 11/2" OR 2" SIZE, MOUNTED WITH BRASS FULL PORT BALL VALVE WITH PRESSURE REGULATION DEVICES, MOUNTED WITH RAIN BIRD SINGLE STATION DECODER (FD-101TURF). DETAIL-A.

RAIN BIRD 100-EFB-CP-PRS BRASS ELECTRIC REMOTE CONTROL VALVE, 1" SIZE MOUNTED WITH BRASS FULL PORT BALL VALVE WITH PRESSURE REGULATION DEVICES, MOUNTED WITH RAIN BIRD SINGLE STATION DECODER (FD-101TURF).

RAIN BIRD FALCON 6504 F4-FC-SS-16, WITH #16 NOZZLE, SPORTS TURF CLOSED CASE ROTOR, FULL CIRCLE ARC, 63' RADIUS @ 15.7 GPM, 60 PSI, RUBBER COVER, STAINLESS STEEL RISER, UTILIZE LASCO 1" UNITIZED SWING JOINTS. DETAIL-B.

RAIN BIRD FALCON 6504 F4-PC-SS-16, WITH #16 NOZZLE, SPORTS TURF CLOSED CASE ROTOR PART CIRCLE ARC, 63' RADIUS @ 15.7 GPM, 60 PSI, RUBBER COVER, STAINLESS STEEL RISER, UTILIZE LASCO 1" UNITIZED SWING JOINTS. DETAIL-B.

RAIN BIRD FALCON 6504 F4-FC-SS-18, WITH #18 NOZZLE, SPORTS TURF CLOSED CASE ROTOR, FULL CIRCLE ARC, 63' RADIUS @ 17.1 GPM, 60 PSI, RUBBER COVER, STAINLESS STEEL RISER, UTILIZE LASCO 1" UNITIZED SWING JOINTS. DETAIL-B.

RAIN BIRD #5 QUICK COUPLING VALVE 1" SIZE. CONTRACTOR TO SUPPLY TWO QCV KEYS AND MATCHING HOSE SWIVELS. DETAIL-C.

MAINLINE ISOLATION GATE VALVE, DOMESTIC DUCTILE IRON GASKETED, DETAIL-H.

AIR VENT VALVE, BERMAD #4420, 2" SIZE. DETAIL-D. MAINLINE PIPE: 3" SIZE IF NOT NOTED. CLASS 200 PVC. ALL PIPE 2-1/2" AND LARGER SHALL BE UNIBELL GASKETED PVC PIPE AND HARCO PVC GASKETED FITTINGS. THRUST BLOCKS AND RESTRAINTS TO BE UTILIZED AS PER MANUFACTURER'S

NOTE: 1-1/2" SCH 40 PVC ELECTRICAL CONDUIT FOR CONTROL WIRING WILL BE INSTALLED IN ALL MAINLINE TRENCHLINES.

RECOMMENDATIONS FOR PIPE TYPE, PIPE SIZE, AND LOCAL ENVIRONMENTAL

LATERAL LINE PIPE: CLASS 200 PVC SOLVENT WELD PIPE UTILZING SCH 40 PVC SOLVENT WELD FITTINGS., SIZE NOTED.

IRRIGATION SLEEVE, CLASS 200 PVC PIPE, SIZE NOTED ON PLANS. DETAIL-O.

TWO-WIRE CABLE PATH FROM CONTROLLER TO IRRIGATION MAINLINE (INSTALLED IN 1-1/2" ELECTRICAL CONDUIT).

RAIN BIRD LSP-1 TWO-WIRE SURGE ARRESTOR. INSTALLED A MINIMUM OF EVERY 300' OR EVER 6 DECODERS, WHICHEVER IS SHORTER. DETAIL-G.

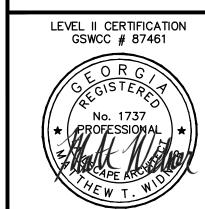
TYPICAL VALVE INDICATOR

GALLONS PER MIN.

STATION NUMBER VALVE SIZE

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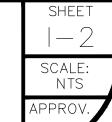


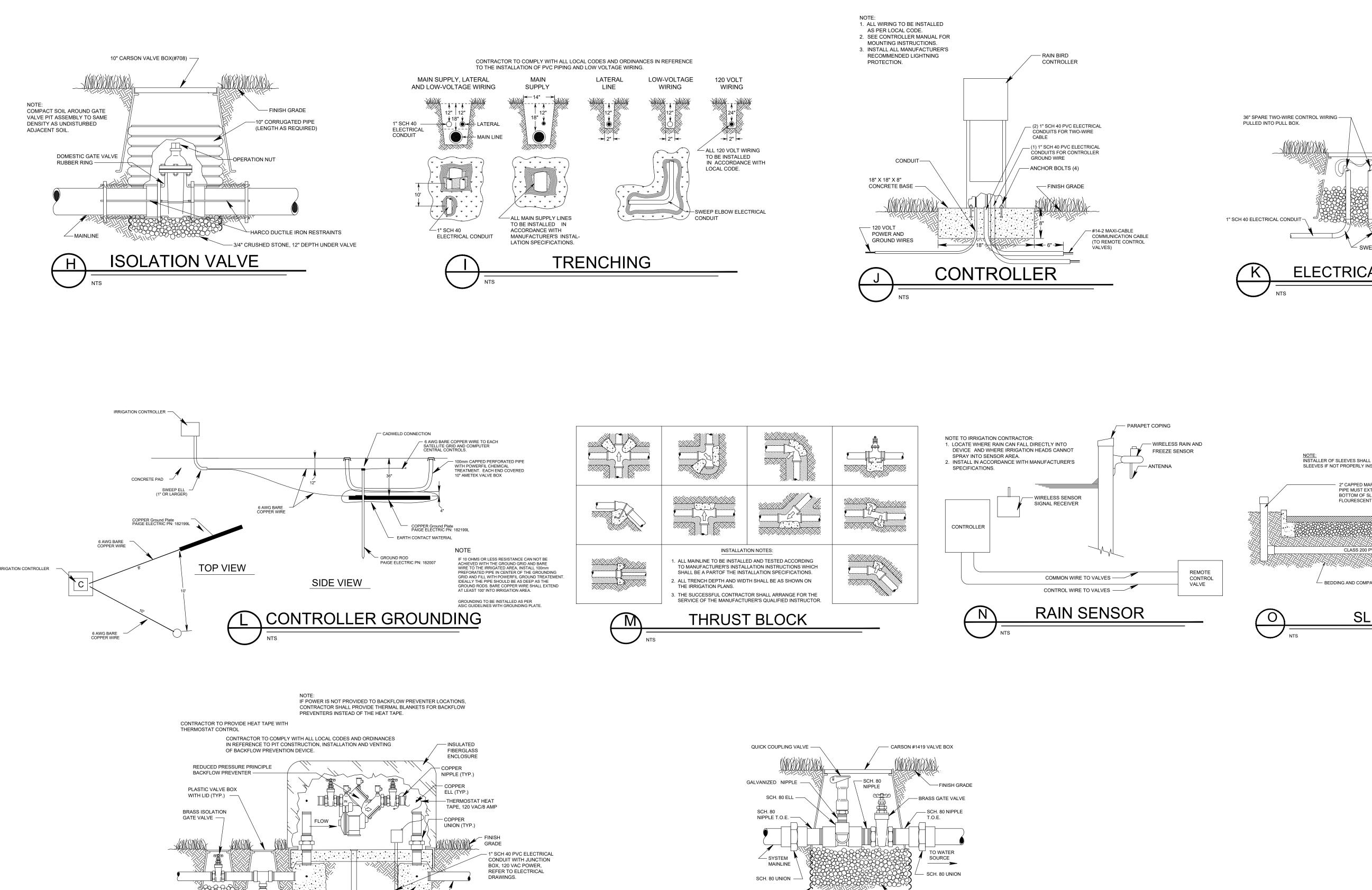
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CORRUGATED 12" PIPE —

4" CLASS 200 PVC
 DRAIN PIPE WITH

_ #57 GRAVEL SUMP, 2 CUBIC YARD, WRAPPED

FLOOR PLATE

— SYSTEM

BLOCK (TYP.) MAINLINE

__THRUST

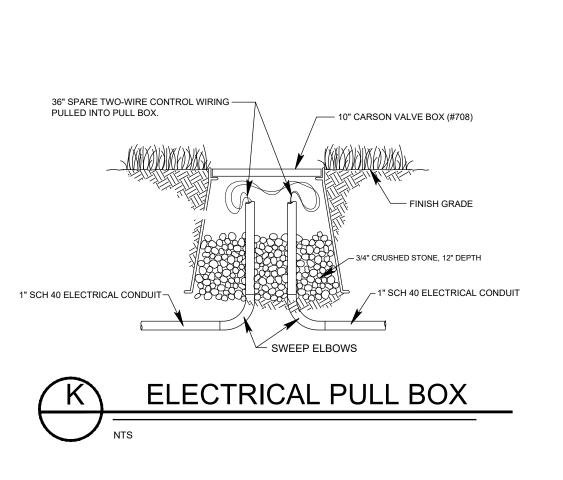
- 3/4" GATE VALVE DRAIN WITH 1 CU.

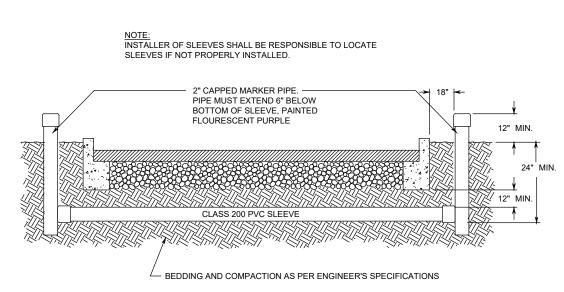
P RPA BACKFLOW DEVICE

IRRIGATION CONTACTOR SHALL SUBMIT BACKFLOW DETAIL TO LOCAL AUTHORITIES FOR APPROVAL BEFORE STARTING CONSTRUCTION.

TO WATER SOURCE

Know what's **below. Call** before you dig.

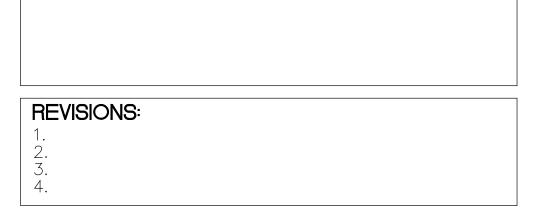




SLEEVING



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IRRIGATION SYSTEM

PART 1- GENERAL

1.1 SYSTEM DESCRIPTION

- A. The sprinkler system shall include sprinklers, valves, piping fittings, controller, wiring, all of sizes and types as shown on the drawings and specified. The system shall be constructed to grades and conform to areas and locations as shown on the drawings.
- B. Sprinkler lines shown on the drawings are essentially diagrammatic. Spacing of the sprinkler heads or quick coupling valves are shown on the drawings and shall be exceeded only with written permission of the Designer.
- C. Unless otherwise specified or indicated on the drawings, the construction of the sprinkler system shall include the furnishing, installing, and testing of all mains, laterals, risers and fittings, sprinkler heads, gate valves, control valves, controllers, electric wire, controls, backflow preventers, enclosures, and other necessary specialties and the removal and/or restoration of existing improvements, excavating and backfill, and all other work in accordance with the plans and specifications a required for a complete system.

1.2 QUALITY ASSURANCE

- A. Installer Qualifications: Irrigation Contractor shall have successfully completed five (5) projects similar in material, size, scope and complexity to that indicated for this Project that have resulted in construction with a record of successful in-service performance. This requirement includes Pump installation Contractor.
- 1. Firm Experience Period: Five (5) years of experience
- 2. Field Foreman Experience: Five (5) years of experience with installing firm.
- B. Conference: Before any work is started a conference shall be held between the Contractor and the Owner concerning the work under this contract.
- B. The Contractor shall maintain continuously a competent superintendent, satisfactory to the Owner, on the work during progress with authority to act or him in all matter pertaining to the work.
- C. It is the Irrigation Contractor's responsibility to coordinate and cooperate with the other Contractors to enable work to proceed rapidly and efficiently.
- D. The Contractor shall confine his operations to the area to be improved and to the areas allotted him by the Designer and General Contractor for material and equipment.
- E. Contractor shall take all necessary to protect the existing site conditions and vegetation.

1.3 SUBMITTALS

- A. General: Submit in accordance with Shop Drawings, Product Data, and Samples.
- B. Shop Drawings and Equipment Product Information:
- 1. Prior to purchasing materials, submit product information on all sprinkler heads, automatic valves, quick coupling valves, controller, and pipe to be used on the project.
- 2. Contractor shall review drawings and data to supply actual precipitation rates and times for each zone in maintenance package.
- 3. Prior to trenching, Contractor shall submit proposed trenching equipment to Designer for approval.

C. Record Drawings and Instructions

1. Upon completion of installation, Contractor shall produce as-built drawings in Autocad 2010 format and furnish one set of reproducible and one set of printed record drawings showing all sprinkler heads, valves, drains, and pipelines to scale with dimensions. These drawings shall have dimensions from easily located stationary points (cross measured) as they relate to all valves, mainlines, and wire. Clearly note all approved substitutions of size, material, etc. Complete, concise instruction sheets and parts lists covering all operating equipment and weathering techniques shall be bound into folders and furnished to the Owner in three (3) copies. Submission of this information is a requirement for final acceptance.

1.4 SITE CONDITIONS

- A. The Contractor shall examine the site, plans and specifications (i.e. system requirements).
- B. It shall be the Contractor's responsibility to report in writing to the Designer any deviations between drawings, specification, and actual site conditions. Failure to do so prior to the installing of equipment shall be done at the Contractor's expense.
- C. Adjustment of the sprinkler heads and automatic equipment will be done by the Contractor, upon completion of installation, to provide optimum performance.
- D. After completion, testing, and acceptance of the system, the Contractor shall verbally instruct the Owner's personnel in the operation and maintenance of the system. All written instruction shall be included in the bound maintenance package as stated in Paragraph 1.3 - Submittals.

PART 2 - PRODUCTS

2.1 PIPE AND FITTINGS

- A. Pipe sizes shall conform to those shown on the drawings. No substitutions of smaller pipe sizes will be permitted, but substitutions of larger size may be approved. All pipe damaged or rejected because of defects shall be removed from the site at the time of said rejection.
- B. All mainline piping (21/2") two and one half inches and larger will be equipped with gaskets.
- C. All fittings for mainline pipes two and one half (21/2") inches or larger will be equipped with gaskets.
- D. All piping downstream of electric valves, sizes (3) inches and smaller, shall be rigid unplasticized PVC 200 PSI working pressure extruded from virgin parent material of the type specified on the drawings. The pipe shall be homogeneous throughout and free from visible cracks, holes, foreign materials, blisters, wrinkles and permanently marked with the manufacture's name, material, size, and schedule type. Pipe must bear the NFS seal.
- E. All mainline piping and underground piping under continuous pressure shall be rigid unplasticized PVC-Class 200 PSI working pressure extruded from virgin parent material of the type specified on the drawings. The pipe shall be homogeneous throughout and free from visible cracks, holes, and foreign materials, blisters, wrinkles and dents.
- F. All plastic fittings to be installed shall be molded fittings manufactured of the same material as the pipe and shall be suitable for solvent weld, slip joint ring tight seal, or screwed connections NO fitting made of other material shall be used except as hereinafter specified.
- G. Slip fitting socket tapers shall be so sized that a dry unsoftened pipe end conforming to these special provisions can be inserted no more than halfway into the socket. Plastic saddle and flange fittings will not be permitted. Only Schedule 80 pipe may be threaded.
- H. Fittings for all Mainline Piping 4" and larger shall be Harco Ductile Iron Gasketed Fittings. All mainline shall utilize approved thrust blocking and or restraints. Thrust Blocking and restraints to be installed as per manufacturer's recommendations for pipe type, pipe size and local environmental conditions.

2.2 SLEEVES

- A. All sleeves shall be Class 200 PVC or stronger. All sleeves are required at every crossing indicated on drawings. (Size Noted)
- B. All sleeves shall be installed under proposed pavement areas prior to subgrade and base construction.
- C. Sleeves shall have a minimum horizontal separation of 18" and a maximum of twenty-four (24) inch clearance below bottom of curb.
- D. All sleeves shall have a minimum horizontal separation of twenty-four (24) and maximum of thirty-six inches from center to center.
- E. Stub up sleeve pipe twelve (12) inches above ground surface and cap. Paint cap with fluorescent orange paint for easy identification.
- F. The location of all sleeves shown on the plans is schematic. The contractor shall make any adjustments necessary to accommodate existing vegetation, utilities, or other existing
- G. If the road crossings are designated as being bore locations the bore must be ample size to accommodate the size sleeve specified.

2.3 CONTROL SYSTEM

- A. The Controller shall be two-wire, decoder based system (as stated on plans).
- B. The automatic controllers shall be as shown on the plans and shall be made by the same manufacturer as valves.
- C. Install Rain Check or Mini-Click type shut off device to override the control timer in the event of rain.

2.4 CONTROL WIRE

- A. Two-wire Control wire shall be type UF, UL approved, for direct burial and shall be minimally sized #14-2/MAXI, solid copper, double jacked, insulated. Wire sizing shall be done in accordance with manufacturer's specifications for wire length runs, decoder numbers, etc (it is very possible job may require #12-2 wire size).
- B. Joining of underground wires shall be made with watertight connectors in valve boxes. No splicing between boxes is acceptable. Utilize 3M DBR/Y-6 Connections unless directed
- C. All wire connections in valve boxes; first example shall stay open until the Designer approves.
- D. Install LSP-1 Surge Protection Device every 300 feet or every 6 decoders, whichever is less, with Ground Rod, on two-wire path and at end of wire run that terminates in field (star

2.5 IRRIGATION VALVES

- A. Zone Control Valves
- 1. Globe-type diaphragm valves of normally closed design, with bronze bodies or heavy- duty plastic and covers (type noted on drawings). Operation accomplished by means of an integrally mounted heavy-duty 24 volt AC solenoid complying with National Electrical Code, Class II Circuit, solenoid coil potted in epoxy resign within a plastic-coated stainless steel housing. Solenoids shall be completely waterproof, suitable for direct underground burial. Provide a flow stem adjustment in each valve.
- 2. To be installed with Single Station Decoder (as specified on plans).

2.6 VALVE BOXES

- A. All valves shall be installed in thermoplastic valve access boxes of the size required to permit access to the valve. Valve boxes shall include black thermoplastic locking covers. Manufacturer - Carson or approved equal.
- B. All valve boxes shall be installed on at least a two (2) cubic foot gravel base to provide foundation and drainage.
- C. All valve box elevations shall be ½" below finished grade.

2.7 THRUST BLOCKS

A Place one cubic ft. of concrete for each inch of pipe diameter for thrust block. Thrust shall not allow vertical or horizontal movement of pipe in any direction unless otherwise noted on design. Thrust blocking shall be provided on all piping three (3) inch diameter and larger.

PART 3 - EXECUTION

3.1 EXCAVATION AND BACKFILL

- A. Trenches for pipe sprinkler lines shall be excavated of sufficient depth and width to permit proper handling and installation by any other method the Contractor may desire if approved by the Owner, pipe manufacturer, and Designer. The backfill shall be thoroughly compacted and evened off with the adjacent soil level. Selected fill dirt or sand shall be used if soil conditions are rocky. In rocky areas the trenching depth shall be two (2) inches below normal trenching depth to allow for this bedding. The fill dirt or sand shall be used in filling (4) inches above the pipe. The remainder of the backfill shall contain no lumps or rocks larger than three (3) inches. The top twelve (12) inches of backfill shall be topsoil, free of rocks, subsoil, or trash. Any open trenches or partially backfilled trenches left overnight or left unsupervised shall be barricaded to prevent undue hazard to the public.
- B. The Contractor shall backfill in six (6) inch compacted lifts as needed to bring the soil to its original density.
- C. In the spring following the year of installation, the Contractor shall repair any settlement of the trenches by bringing them to grade with topsoil, and seeding with the existing lawn type(s). Watering and maintenance of the repaired areas shall be the Owner's responsibility.

3.2 INSTALLATION OF PLASTIC PIPE

- A. Plastic pipe shall be installed in a manner that permits expansion and contraction as recommended by the manufacturer.
- B. Plastic pipe shall be cut with a handsaw or hacksaw with the assistance of a square in sawing vice or in a manner so as to ensure a square cut. Burrs at cut ends shall be removed prior to installation so that a smooth unobstructed flow will be obtained.
- C. All plastic-to-plastic joints shall be solvent weld joints or slip seal joints. Only the solvent recommended for the pipe and fittings shall be installed as outlined and instructed by the pipe manufacturer. The Contractor shall assume full responsibility for the correct installation.
- D. The joints shall be allowed to set at least twenty-four (24) hours before pressure is applied to the system on PVC pipe.

3.3 CONTROLLER AND ELECTRICAL CONNECTIONS

- A. All electrical connections shall conform to the National Electrical Code, latest edition.
- B. Control wires installed beneath walks, drives, or other permanent surfaces shall be placed in sleeves.
- C. Wires shall be spliced only at valve boxes.
- D. Leave twenty-four (24) inch loop of wire at each valve for expansion/contraction and servicing.
- E. Controllers and valves shall be from the same company e.g. (Rain Bird, Toro or approved equal).
- F. 120 VAC electrical power supply to the controller location shall be supplied by others.

3.4 FLUSHING AND TESTING

- A. After all new sprinkler piping and risers are in place and connected for a given section and all necessary division work has been completed and prior to the installation of sprinkler heads all control valves shall be opened and a full head of water used to flush out the system.
- B. Sprinkler main shall be pressure tested as follows:
- Two (2) hour pressure test at 1.5 times the system operating pressure Twenty four (24) hour pressure test at the system operating pressure
- If leaks occur, repair and repeat the test until no leaks occur (pressure does not drop). Give Designer twenty-four hours notice prior to testing.
- C. Testing of the system shall be performed after completion of the entire installation and any necessary repairs shall be made at the Contractor's expense to put the system in good working order before final payment by the Owner.
- D. Adjustment of the sprinkler heads, and automatic equipment, will be done by the Contractor upon completion of installation to provide optimum performance. Minor adjustments during the guarantee period will be made by the Owner.
- E. After completion, testing, and acceptance of the system, the Contractor will instruct the Owner's personnel in the operation and maintenance of the system.

3.5 CLEAN UP AND PROTECTION

- A. During irrigation work, Contractor shall keep project site clean and orderly
- B. Upon Completion of Work, clear grounds of debris, superfluous materials and all equipment. Remove from site to satisfaction of the Owner's Representative.

3.6 WINTERIZING THE SYSTEM

A. Contractor's responsibility to winterize the irrigation system the first winter following Substantial Completion of the Project.

3.7 INSPECTION

- A. Periodic Inspections will be made by the Landscape Architect/Owner's Representative to review the quality and progress of the work. Work found to be unacceptable must be corrected within a timely mater (to be determined by Owner's Representative). Remove rejected materials promptly from the project site.
- B. It will be the responsibility of the Irrigation Contractor to provide a reliable communication system (i.e. Two way radios or remote radio control activation system) for Substantial Completion and all periodic inspections.

PART 4 - CODES, PERMITS, WARRANTY, AND GUARANTEE

4.1 CODES AND ORDINANCES

A. All materials, installation parameters, and operations shall conform to all applicable codes and ordinances. It is the Contractor's responsibility to investigate and follow all regulations. Contractor is responsible to verify applicable codes and ordinances prior to submitting bid. Before bid submittal, it is the Contractor's responsibility to notify the Irrigation Consultant/Designer at least 5 days before bid submittal, of any changes due to code or ordinance discrepancies. If the Contractor does not comply with this process and notification, the Contractor shall be responsible for the necessary installation change and redesign costs for non-compliance.

4.2 PERMITS AND FEES

fee shall be the responsibility of the Contractor. 4.3 WARRANTY AND GUARANTEE

A. The Contractor shall obtain, at his expense, all required permits and shall pay all required fees. Any penalties imposed due to failure to obtain any permit or pay any

A. The Contractor shall furnish a certificate of warranty registration and a written guarantee of work and materials for a one year period from the date of final acceptance of the Irrigation System by the Owner and the Designer.

END OF SECTION

STAMP HERE FOR DEPARTMENT APPROVAL DRAWING NAME DRAWING #

REVISIONS

LEVEL II CERTIFICATION GSWCC # 87461

THESE DOCUMENTS AS INSTRUMENTS OF WIDNER AND ASSOCIATES, AND NO PART THEREOF MAY BE USED REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION.

09/26/2025 CHECKED BY:

DRAWN BY:

PROJECT #:

9999-013

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