

Lyman  
Davidson  
Dooley, Inc.

1640 Powers Ferry Road  
Building One  
Marietta, GA 30067

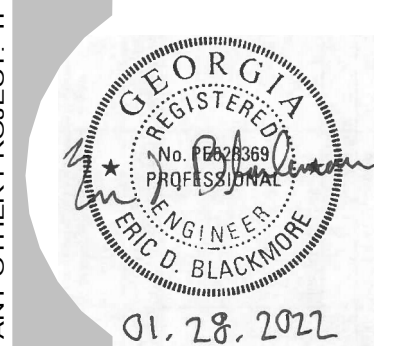
770.850.8494 t  
770.956.9030 f

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REVISIONS

- |   |          |                 |
|---|----------|-----------------|
| 1 | 01/28/22 | PERMIT/QC COMM. |
| 2 | 04/25/22 | ADDENDUM #1     |



**Spalding**  
COUNTY  
Spalding County  
Aquatic Center

Spalding  
County Aquatic  
Center  
561 Rehoboth Rd.  
Griffin, GA 30224

Spalding  
County Parks  
& Recreation  
841 Memorial Dr.  
Griffin, GA 30223

TITLE STRUCTURAL GENERAL NOTES

STATUS BID SET

JOB 120007.00

QC RPH

DRAWN AC

SHEET **S005**

DATE 01/28/2022

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**STEEL JOISTS**

- STEEL JOISTS, BRIDGING, AND THEIR CONNECTIONS SHALL BE DESIGNED, FABRICATED, AND ERECTED ACCORDING TO THE SPECIFICATIONS OF THE STEEL JOIST INSTITUTE (SJI).
- STEEL ROOF JOISTS AND BRIDGING SHALL BE DESIGNED FOR A NET UNIFORM UPLIFT LOAD DETERMINED BY THE DEAD LOADS AND THE COMPONENTS AND CLADDING PRESSURES.
- ALL JOISTS SHALL HAVE A MINIMUM ALLOWABLE ROLLOVER CAPACITY OF 1.5 KIPS AND USE A MINIMUM FACTOR OF SAFETY OF 2.0.
- THE DESIGN OF STEEL JOISTS, BRIDGING, AND THEIR CONNECTIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- SUBMIT SHOP DRAWINGS TO THE STRUCTURAL DESIGN PROFESSIONAL FOR REVIEW. SUBMITTALS SHALL BE SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE PROJECT STATE. REVIEW OF SHOP DRAWINGS SHALL BE FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS REGARDING ARRANGEMENT AND SIZES OF MEMBERS. THE CONTRACTOR'S INTERPRETATION OF THE DESIGN LOADS, AND THE CONTRACTOR'S INTERPRETATION OF THE CONTRACT DOCUMENT DETAILS. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR THE DESIGN OF THE STEEL JOISTS, BRIDGING, AND THEIR CONNECTIONS.
- THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION AND ERECTION OF WALLS, BEAM FRAMING, METAL DECKING, ETC. TO ENSURE COMPATIBILITY OF ROOF AND WALL SYSTEMS CONSIDERING PITCH AND CAMBER OF STEEL JOISTS.

THE CONTRACTOR SHALL COORDINATE THE JOIST SEAT DEPTH BETWEEN JOIST MANUFACTURE AND STEEL DETAILER. THE SHOP DRAWINGS MUST INDICATE THE JOIST SEAT DEPTH.

**STEEL DECK**

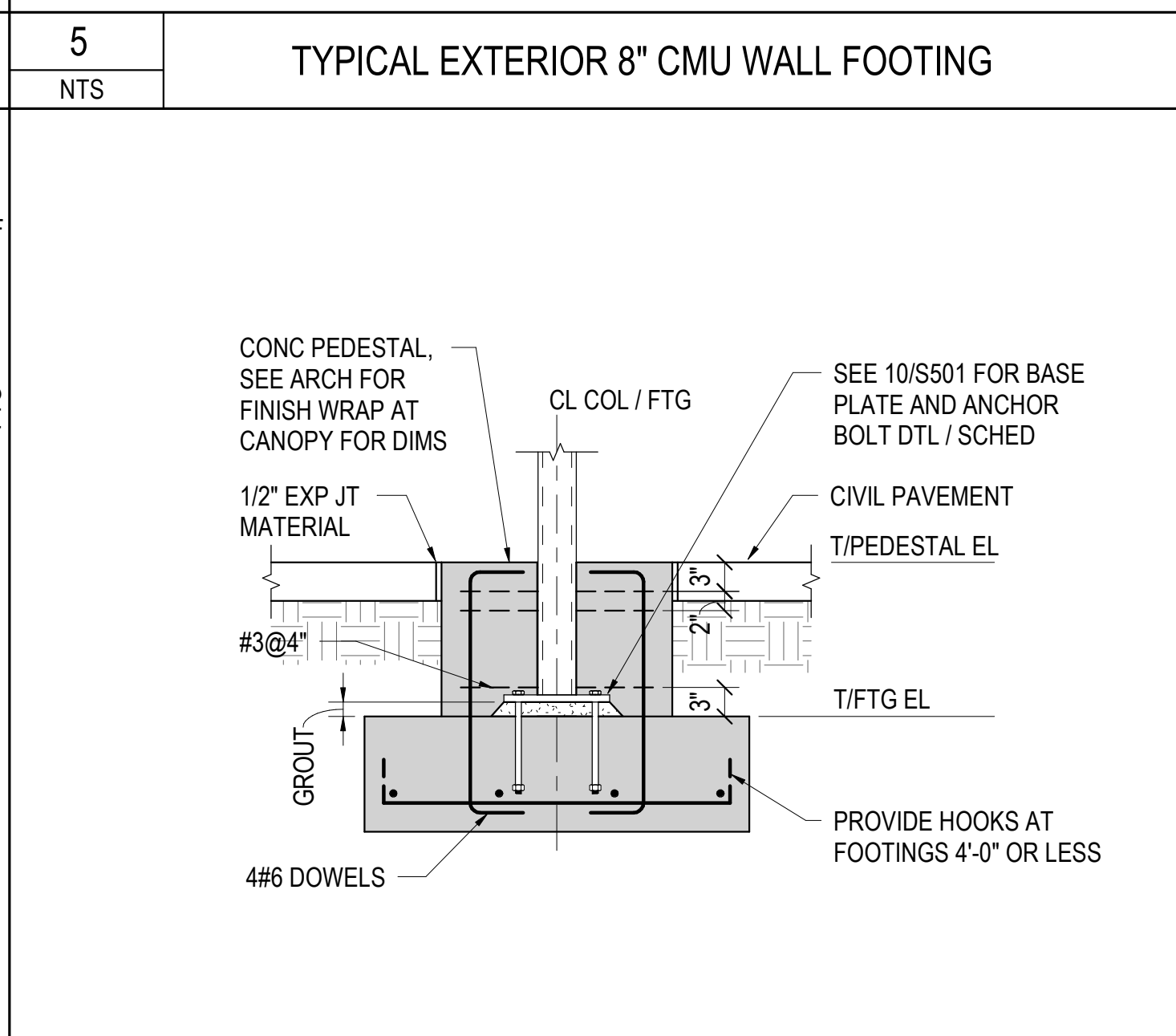
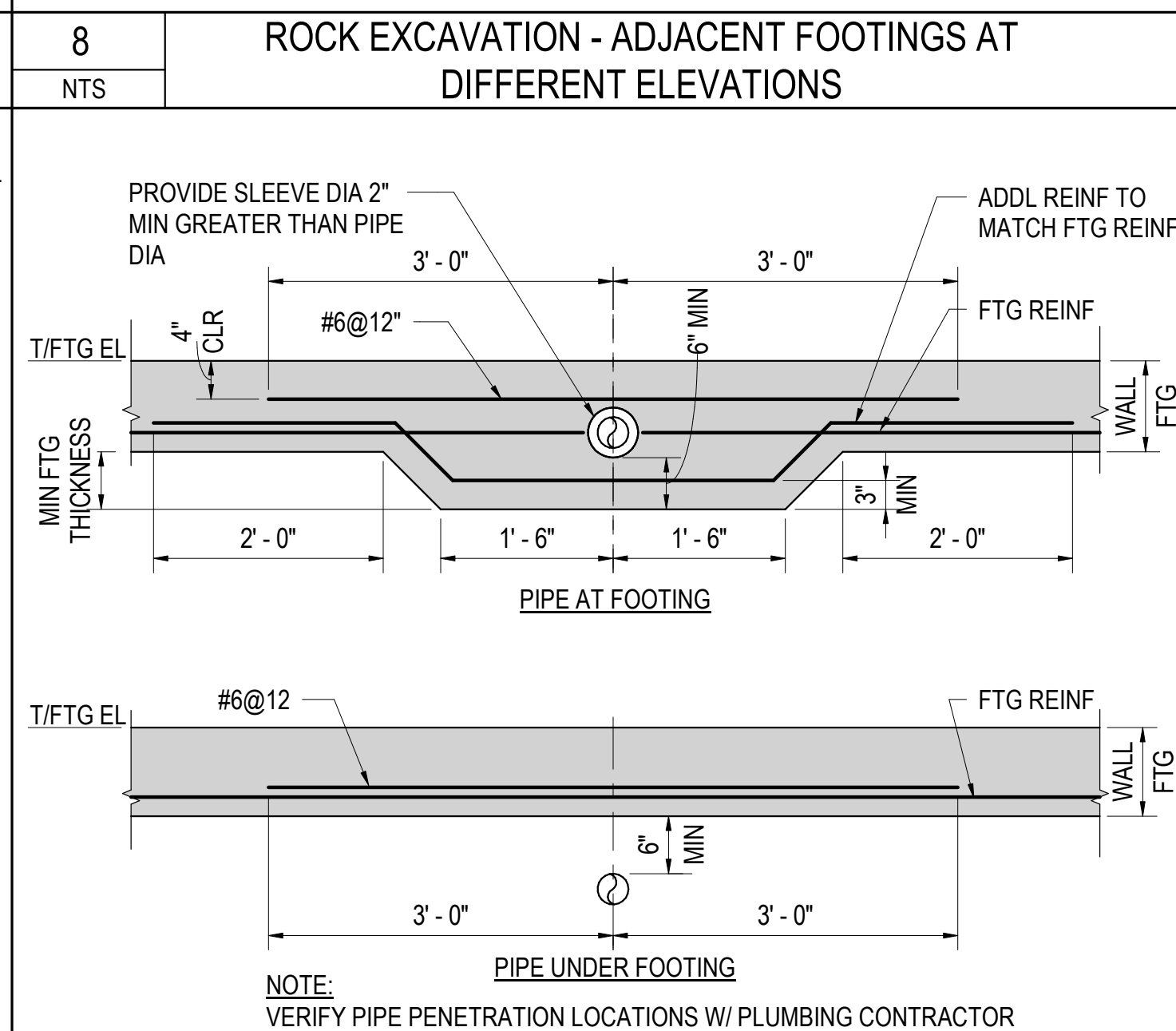
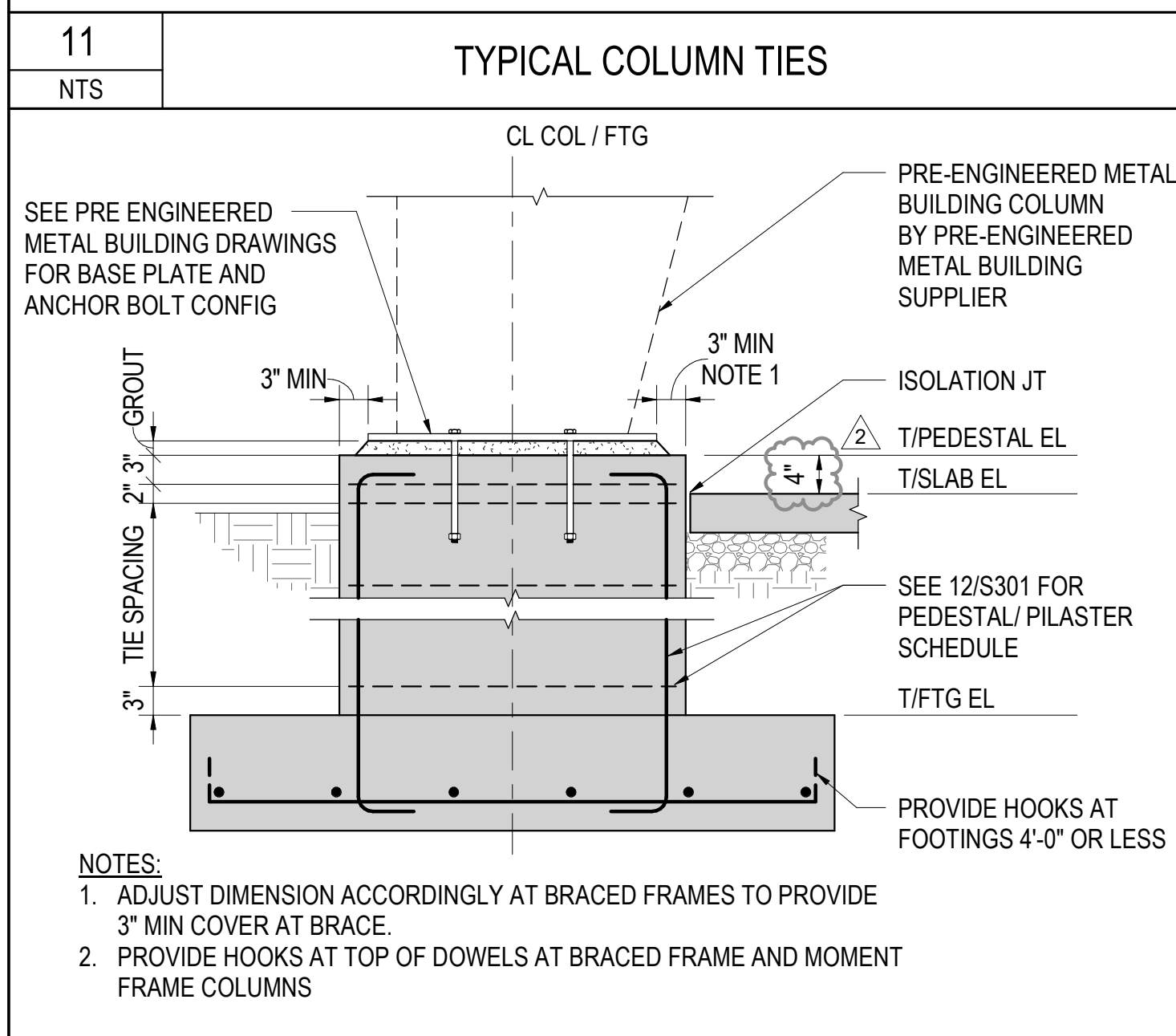
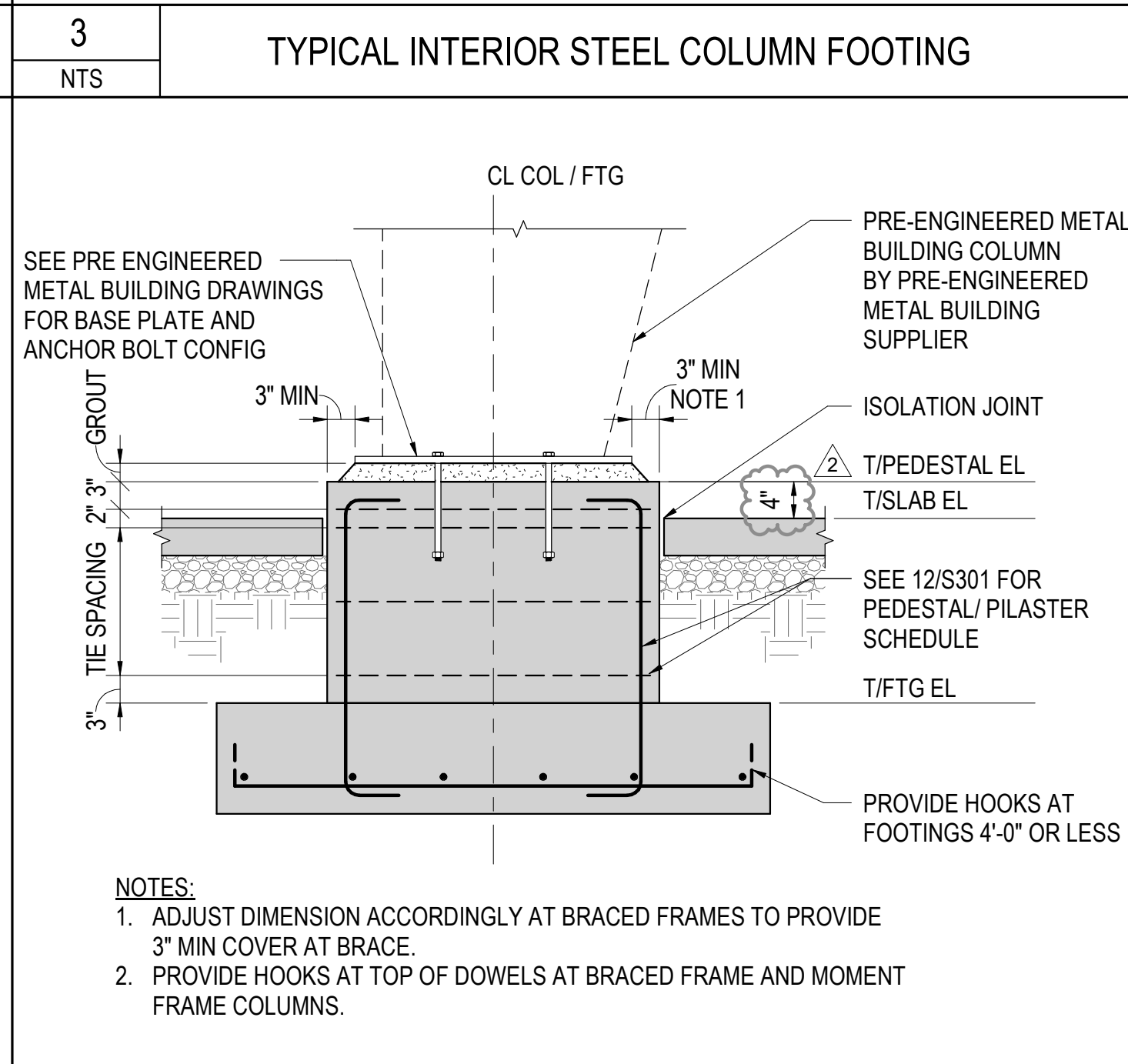
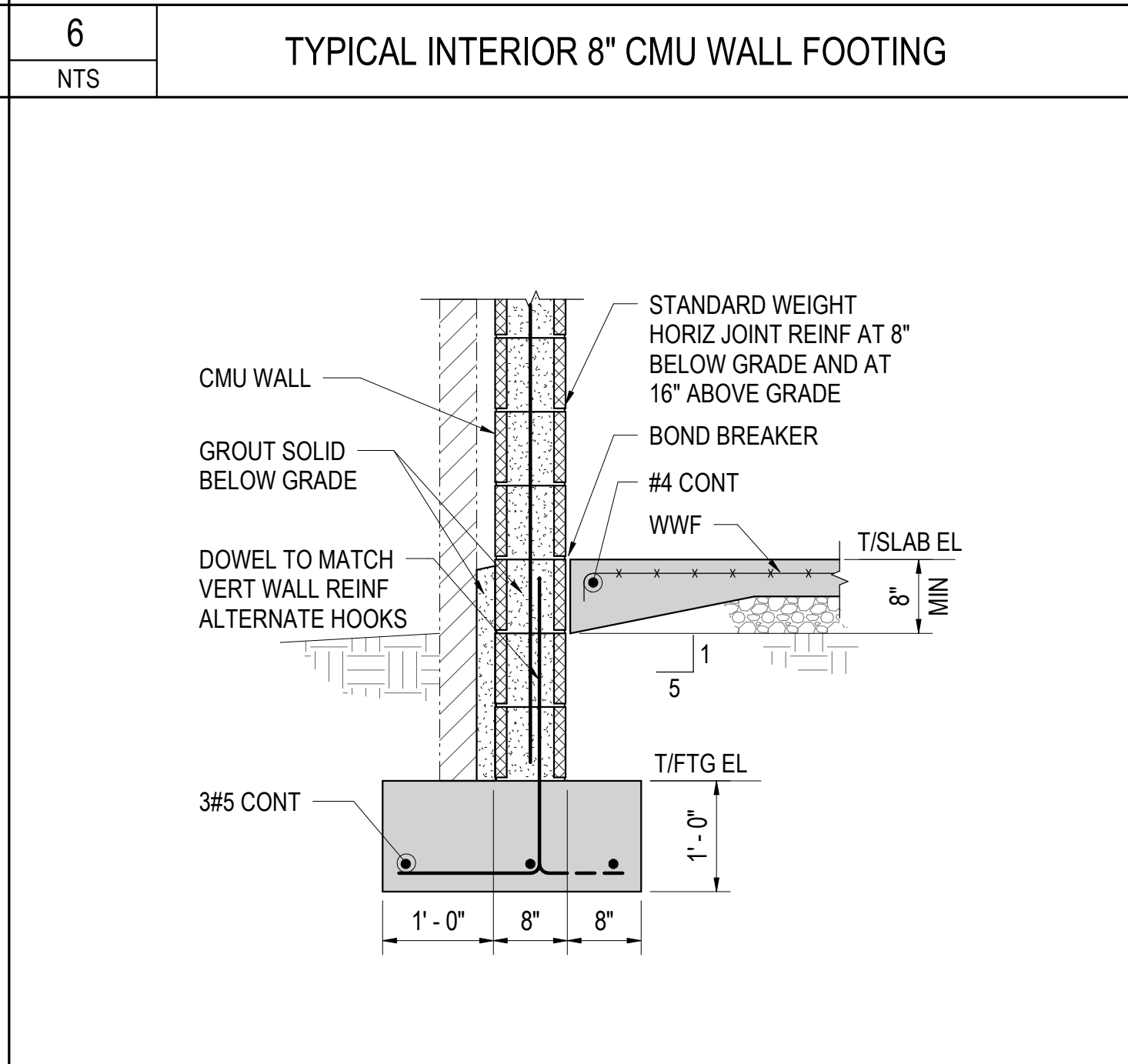
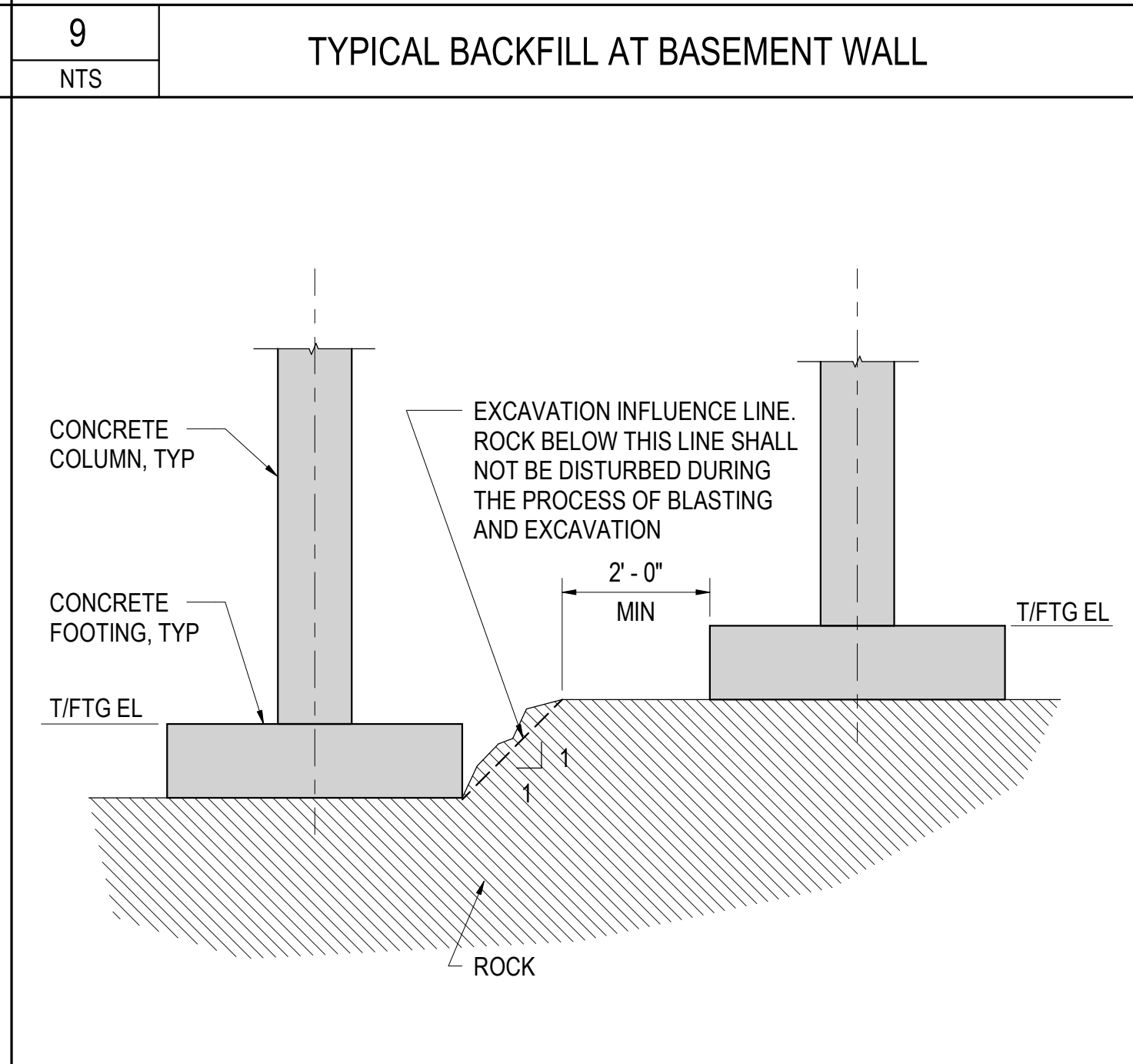
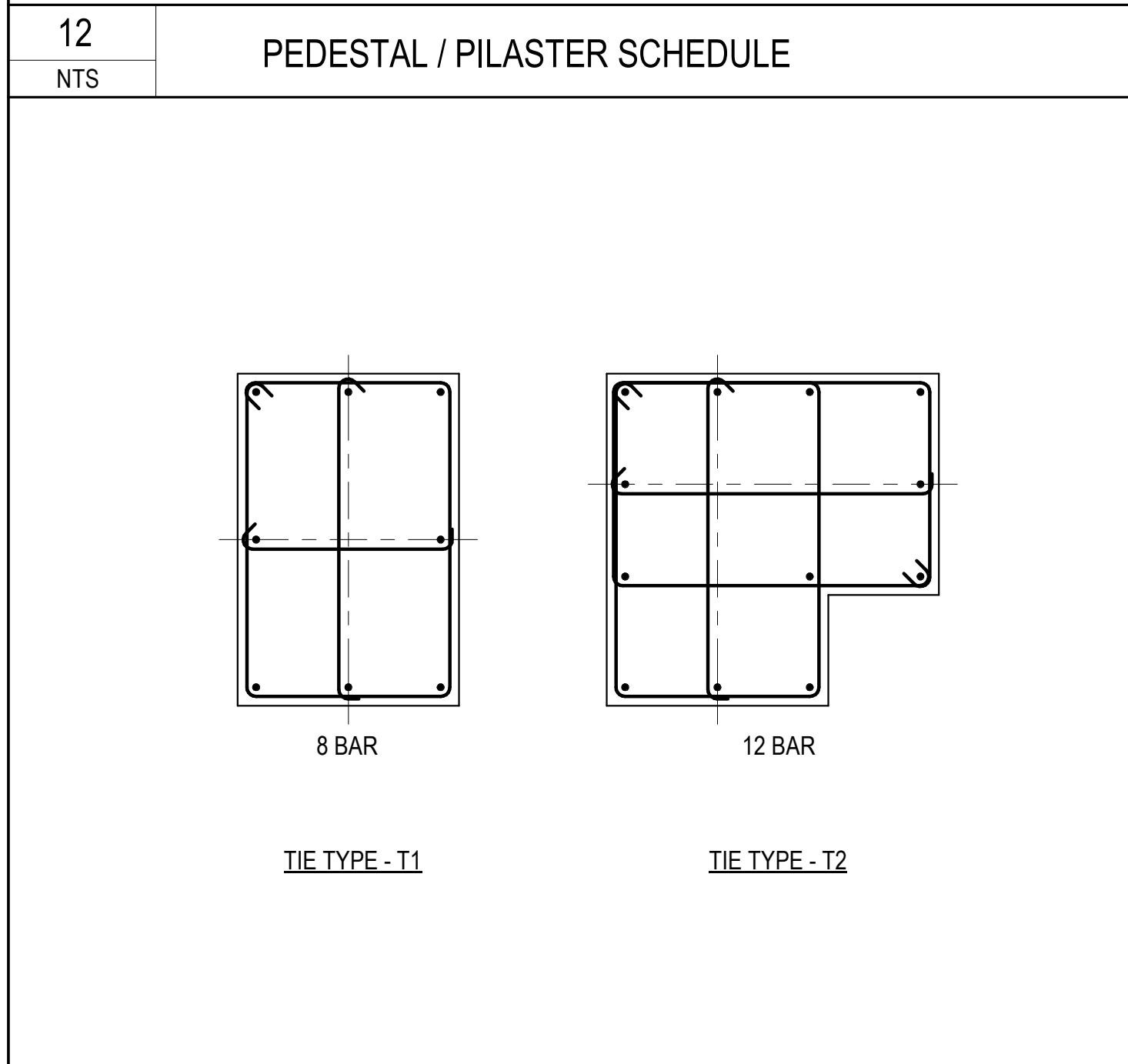
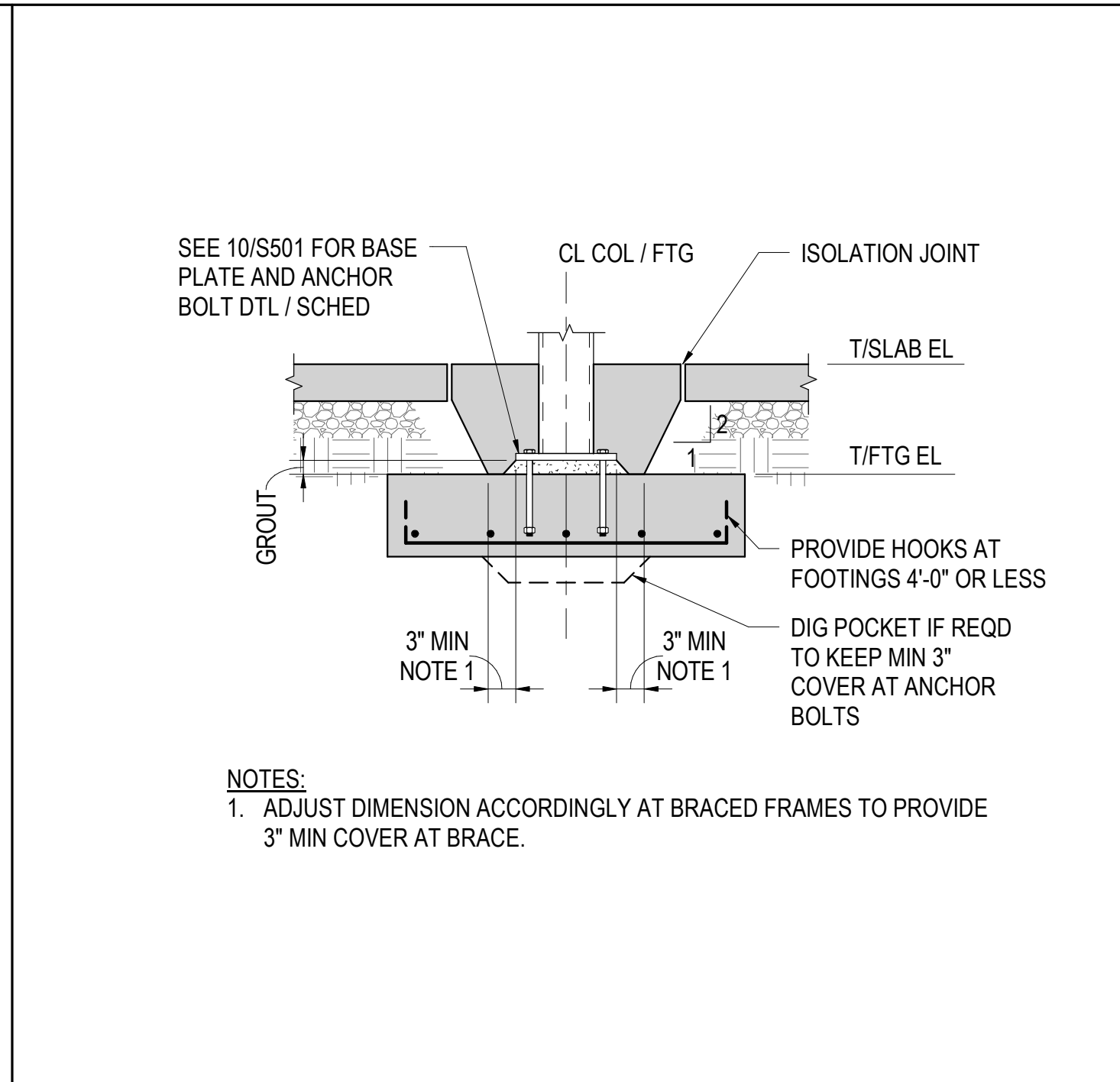
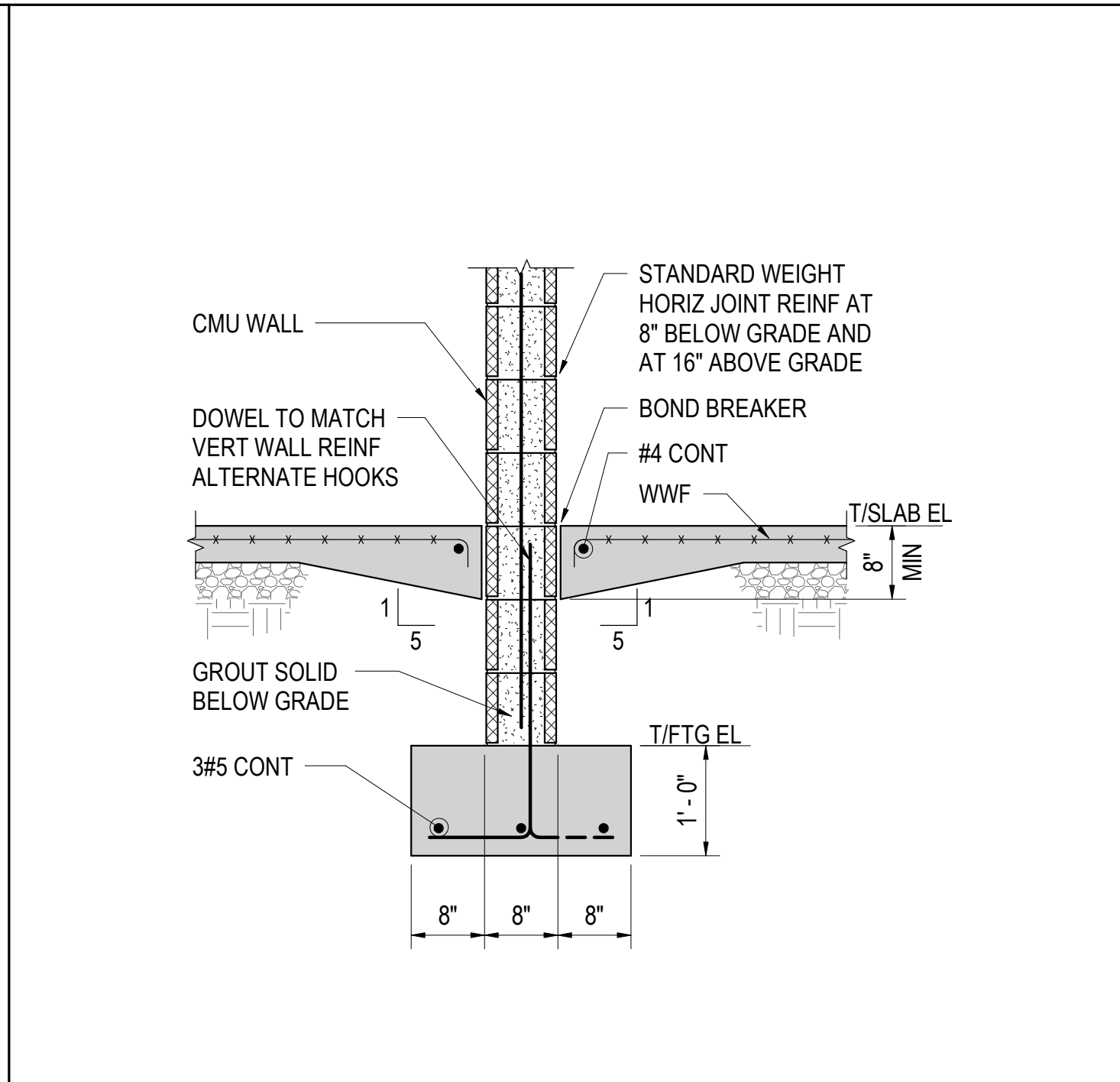
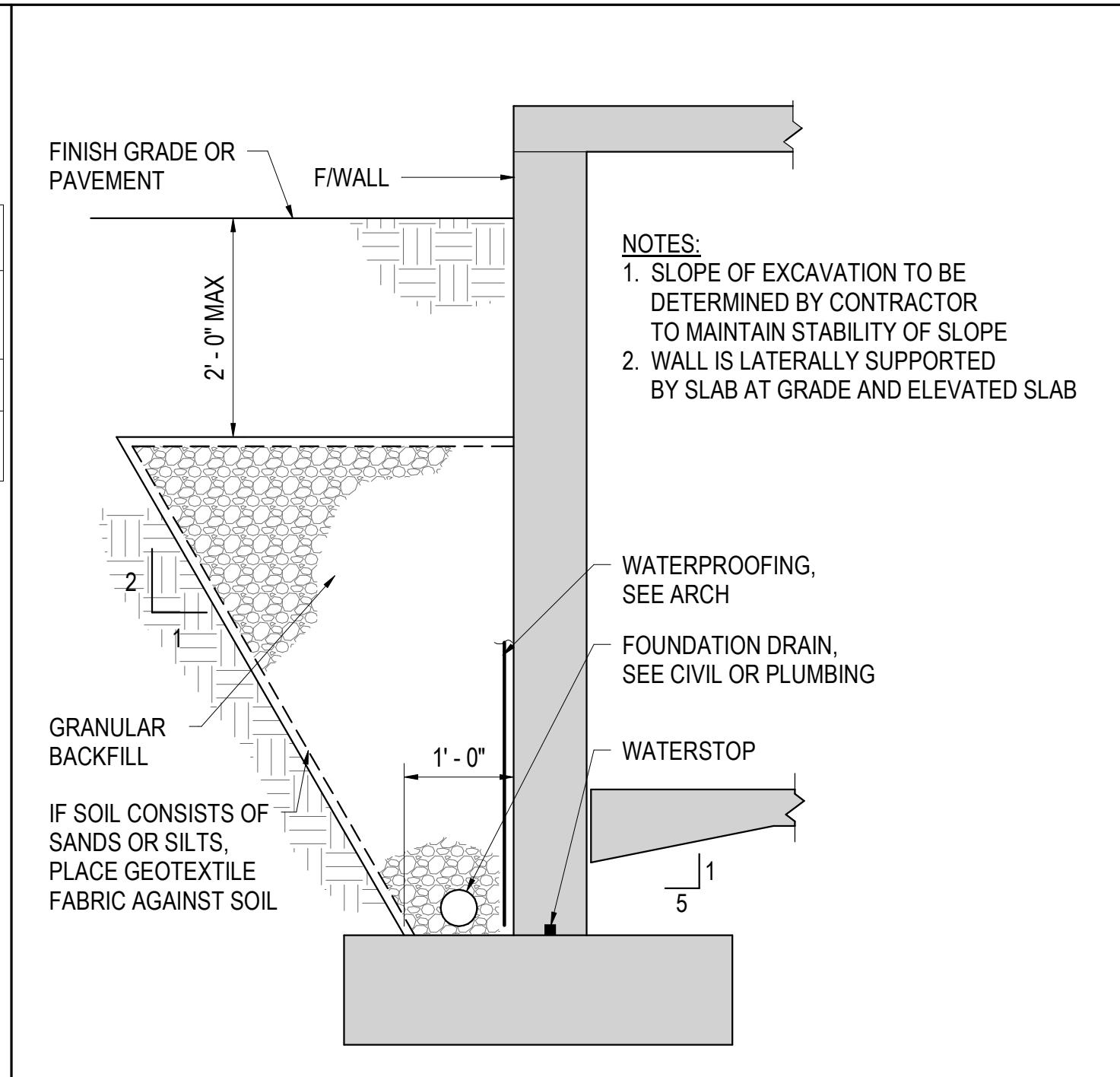
- STEEL DECK DESIGN IS BASED ON THE STEEL DECK INSTITUTE DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS, AND ROOF DECKS.
- PROVIDE STEEL ROOF DECK WITH THE FOLLOWING MINIMUM PROPERTIES:
  - TYPICAL 1 1/2-INCH STEEL ROOF DECK
    - DECK DEPTH  $d = 1\ 1/2$ -INCH
    - DECK THICKNESS  $t = 22$  GAGE (0.0295-INCH)
    - POSITIVE EFFECTIVE MOMENT OF INERTIA  $I_{sp} = 0.155$  IN<sup>4</sup>/FT
    - NEGATIVE EFFECTIVE MOMENT OF INERTIA  $I_{sn} = 0.178$  IN<sup>4</sup>/FT
    - POSITIVE EFFECTIVE SECTION MODULUS  $S_{sp} = 0.169$  IN<sup>3</sup>/FT
    - NEGATIVE EFFECTIVE SECTION MODULUS  $S_{sn} = 0.179$  IN<sup>3</sup>/FT
    - DECK YIELD STRESS  $F_y = 50$  KSI
    - DECK FINISH **G60 GALVANIZED COATING**
- PROVIDE ACOUSTICAL STEEL ROOF DECK WITH THE FOLLOWING MINIMUM PROPERTIES:
  - TYPICAL 3-INCH ACOUSTICAL STEEL ROOF DECK
    - DECK DEPTH  $d = 3$ -INCH
    - DECK THICKNESS  $t = 20$  GAGE (0.0358-INCH)
    - POSITIVE EFFECTIVE MOMENT OF INERTIA  $I_{sp} = 0.856$  IN<sup>4</sup>/FT
    - NEGATIVE EFFECTIVE MOMENT OF INERTIA  $I_{sn} = 1.017$  IN<sup>4</sup>/FT
    - POSITIVE EFFECTIVE SECTION MODULUS  $S_{sp} = 0.458$  IN<sup>3</sup>/FT
    - NEGATIVE EFFECTIVE SECTION MODULUS  $S_{sn} = 0.503$  IN<sup>3</sup>/FT
    - DECK YIELD STRESS  $F_y = 40$  KSI
    - DECK FINISH **G90 GALVANIZED COATING**
- STEEL DECK DESIGN IS SPECIFIED BASED ON A THREE-SPAN CONDITION. FURNISH HEAVIER GAGE DECK IF REQUIRED FOR ONE OR TWO SPAN CONDITION.
- FASTEN STEEL DECK AS INDICATED IN THE STRUCTURAL DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING CALCULATIONS AND PRODUCT DATA FOR ALTERNATE CONNECTION METHODS SUBJECT TO APPROVAL BY THE STRUCTURAL DESIGN PROFESSIONAL.
- OPENINGS IN STEEL ROOF DECK SHALL BE REINFORCED AS FOLLOWS:
  - ROOF OPENINGS LESS THAN 10-INCHES AND AT LEAST 4-FEET APART: PLACE AN 18-GAGE STEEL SHEET OVER THE TOP OF THE OPENINGS AND WELD IN PLACE WITH 5/8-INCH PUDDLE WELDS AT 6-INCHES.
  - ROOF OPENINGS GREATER THAN OR EQUAL TO 10-INCHES: PLACE STEEL FRAME AS INDICATED IN THE STRUCTURAL DOCUMENTS.

**PRE-ENGINEERED METAL BUILDING**

- DESIGN OF THE PRE-ENGINEERED METAL BUILDING AND THEIR CONNECTIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- SUBMIT SHOP DRAWINGS, CALCULATIONS, DESIGN LOAD DATA, AND SUPPORT REACTIONS OF THE COMPONENTS TO THE STRUCTURAL DESIGN PROFESSIONAL FOR REVIEW. SUBMITTALS SHALL BE SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE PROJECT STATE. REVIEW SHALL BE FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS REGARDING ARRANGEMENT AND SIZE OF THE MEMBERS AND THE CONTRACTOR'S INTERPRETATION OF THE DESIGN LOADS AND CONTRACT DOCUMENT DETAILS. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR THE DESIGN OF THE BUILDING COMPONENTS NOT SPECIFIED IN THE CONTRACT DOCUMENTS. SEE ARCHITECTURAL DRAWINGS FOR GENERAL ARRANGEMENTS OF BUILDING COMPONENTS.
- DESIGN LOADS:
  - PRE-ENGINEERED METAL BUILDING SHALL BE CAPABLE OF SUPPORTING THE SUPERIMPOSED LOADS AS GIVEN IN THE CONTRACT DOCUMENTS, IN ADDITION TO THE SELF-WEIGHT OF THE STRUCTURE.
  - PROVIDE LOCATION OF ALL PORTAL FRAMES USED TO RESIST LATERAL LOADS IN THE OPPOSITE DIRECTION THE BENTS ARE SPANNING. SEE PLAN FOR PROPOSED LOCATIONS.
  - EFFECTS TO BE CONSIDERED BY THE PRE-ENGINEERED BUILDING ENGINEER IN THE DESIGN OF THE STEEL ELEMENTS AND CONNECTIONS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
    - GRAVITY — DEAD, LIVE, SNOW, SUPERIMPOSED DEAD, ETC.
    - WIND
    - SEISMIC
    - ECCENTRICITY OF APPLIED LOADS
    - EQUIPMENT LOADS
    - VOLUMETRIC CHANGES DUE TO TEMPERATURE, CREEP, AND SHRINKAGE
    - ERECTION LOADS
  - PRE-ENGINEERED METAL BUILDING FRAMES AND GIRTS SHALL BE DESIGNED TO RESIST THE 10 YEAR MRI WIND LOADS WITH A DEFLECTION NOT TO EXCEED H/400 AT THE LATERAL SUPPORT LOCATIONS OF THE CONCRETE MASONRY WALLS.
  - LOAD COMBINATIONS SHALL BE IN ACCORDANCE WITH THE BUILDING CODE.
- CONNECTIONS:
  - ONLY CONNECTION CONCEPTS ARE SHOWN IN SECTION AND DETAILS OF THE CONTRACT DOCUMENTS. THE DESIGN AND FREQUENCY OF CONNECTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR'S DESIGN ENGINEER IN ACCORDANCE WITH THE BUILDING DESIGN ITSELF. SHOP DRAWINGS SHALL ADEQUATELY DEPICT THE BUILDING ATTACHMENTS TO STRUCTURAL COMPONENTS.
  - SUBMIT SERVICE LOAD REACTIONS ON THE DRAWINGS OF ALL METAL BUILDING ELEMENTS SUPPORTED BY STRUCTURAL ELEMENTS.
  - PRE-ENGINEERED BUILDING MANUFACTURER SHALL SUPPLY NUMBER, SIZE, AND LAYOUT OF ANCHOR BOLTS PRIOR TO FABRICATION OF STEEL. THE COLUMNS SHALL BE DESIGNED AS PINNED AT THE BASE.
  - FOUNDATION SIZES SHOWN ARE PRELIMINARY. CONTRACTOR SHALL NOT SUBMIT FOUNDATION SHOP DRAWINGS PRIOR TO THE REVIEW OF THE PRE-ENGINEERED METAL BUILDING REACTIONS BY THE DESIGN TEAM. PRELIMINARY FOUNDATION SIZES ASSUME PINNED CONNECTIONS AT THE BASE OF PRE-ENGINEERED METAL BUILDING COLUMNS.

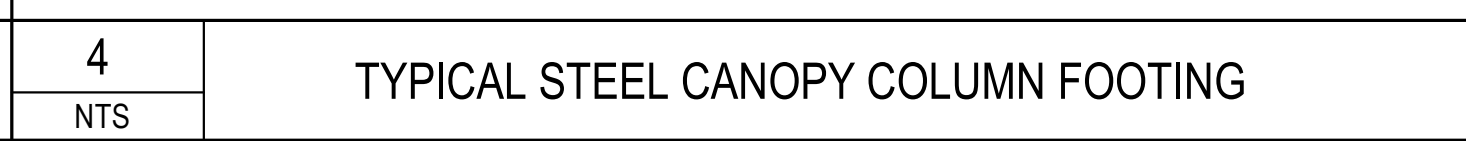
PEDESTAL / PILASTER SCHEDULE						
MARK	SIZE (WxD)	REINFORCING			REMARKS	
		VERTICAL	TIE TYPE	TIE SIZE		TIE SPACING
P1	24"x36"	8#9	T1	#4	6"	
P2	36"x36"	12#9	T2	#4	6"	12"x12" NOTCH IN CORNER

**SCHEDULE NOTES:**  
1. SEE 11/S301 FOR TIE TYPES AND CONFIGURATIONS



2 NTS TYPICAL INTERIOR STEEL COLUMN FOOTING WITH PEDESTAL/PILASTER

FOOTING SCHEDULE			
MARK	SIZE (WxLxT)	REINF	REMARKS
F3.0	3'-0" x 3'-0" x 1'-0"	5#5 HK EACH WAY @ BOT	
F6.5	6'-6" x 6'-6" x 1'-0"	7#5 HK EACH WAY @ T&B	
F7.0	7'-0" x 7'-0" x 1'-6"	7#6 HK EACH WAY @ T&B	
F7.5	7'-6" x 7'-6" x 1'-6"	7#6 HK EACH WAY @ T&B	
F8.0	8'-0" x 8'-0" x 1'-9"	8#6 HK EACH WAY @ T&B	
F9.5	9'-6" x 9'-6" x 1'-6"	9#6 HK EACH WAY @ T&B	
F10.0	10'-0" x 10'-0" x 1'-6"	10#6 HK EACH WAY @ T&B	
F5.0-19.7	5'-0" x 19'-8" x 1'-6"	5#6 HK @ T&B (LONG) 23#6 HK @ T&B (TRANS)	PLACE (7) TRANS BARS WITHIN 5'-0" OF EA END W/ REMAINDER BETWEEN.
F6.5-21.8	6'-6" x 21'-10" x 1'-6"	6#6 HK @ T&B (LONG) 23#6 HK @ T&B (TRANS)	PLACE (7) TRANS BARS WITHIN 6'-6" OF EA END W/ REMAINDER BETWEEN.
F8.0-12.0	8'-0" x 12'-0" x 1'-6"	8#6 HK @ T&B (LONG) 12#6 HK @ T&B (TRANS)	
F8.0-13.5	8'-0" x 13'-6" x 3'-0"	8#6 HK @ T&B (LONG) 14#6 HK @ T&B (TRANS)	
F8.0-27.8	8'-0" x 27'-10" x 1'-6"	8#6 HK @ T&B (LONG) 27#6 HK @ T&B (TRANS)	PLACE (10) TRANS BARS WITHIN 10'-3" OF EA END W/ REMAINDER BETWEEN.



1 NTS FOOTING SCHEDULE

MARK	SIZE (WxLxT)	REINF	REMARKS
F3.0	3'-0" x 3'-0" x 1'-0"	5#5 HK EACH WAY @ BOT	
F6.5	6'-6" x 6'-6" x 1'-0"	7#5 HK EACH WAY @ T&B	
F7.0	7'-0" x 7'-0" x 1'-6"	7#6 HK EACH WAY @ T&B	
F7.5	7'-6" x 7'-6" x 1'-6"	7#6 HK EACH WAY @ T&B	
F8.0	8'-0" x 8'-0" x 1'-9"	8#6 HK EACH WAY @ T&B	
F9.5	9'-6" x 9'-6" x 1'-6"	9#6 HK EACH WAY @ T&B	
F10.0	10'-0" x 10'-0" x 1'-6"	10#6 HK EACH WAY @ T&B	
F5.0-19.7	5'-0" x 19'-8" x 1'-6"	5#6 HK @ T&B (LONG) 23#6 HK @ T&B (TRANS)	PLACE (7) TRANS BARS WITHIN 5'-0" OF EA END W/ REMAINDER BETWEEN.
F6.5-21.8	6'-6" x 21'-10" x 1'-6"	6#6 HK @ T&B (LONG) 23#6 HK @ T&B (TRANS)	PLACE (7) TRANS BARS WITHIN 6'-6" OF EA END W/ REMAINDER BETWEEN.
F8.0-12.0	8'-0" x 12'-0" x 1'-6"	8#6 HK @ T&B (LONG) 12#6 HK @ T&B (TRANS)	
F8.0-13.5	8'-0" x 13'-6" x 3'-0"	8#6 HK @ T&B (LONG) 14#6 HK @ T&B (TRANS)	
F8.0-27.8	8'-0" x 27'-10" x 1'-6"	8#6 HK @ T&B (LONG) 27#6 HK @ T&B (TRANS)	PLACE (10) TRANS BARS WITHIN 10'-3" OF EA END W/ REMAINDER BETWEEN.

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ARCHITECTURE  
PLANNING  
INTERIOR DESIGN

Lyman  
Davidson  
Dooley, Inc.  
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Building One  
Marietta, GA 30067  
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lddl-architects.com

KSI  
REGISTERED PROFESSIONAL ENGINEER  
No. 10000  
EXPIRES 12/31/2024  
ERIC D. BLACKBURN

REVISIONS  
2 04/25/22 ADDENDUM #4

01.28.2022

Spalding  
COUNTY  
Spalding County  
Aquatic Center

Spalding  
County Aquatic  
Center  
561 Rehoboth Rd.  
Griffin, GA 30224

Spalding  
County Parks  
& Recreation  
841 Memorial Dr.  
Griffin, GA 30223

TITLE FOUNDATION AND SLAB  
ON GRADE DETAILS

STATUS BID SET  
JOB 120007.00  
QC RPH  
DRAWN Author  
SHEET S301  
DATE 01/28/2022

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<p>SECTION</p> <p>12 NTS</p>	<p>8" CMU WALL AT JOIST</p> <p>9 NTS</p>	<p>SECTION</p> <p>6 NTS</p>	<p>SECTION</p> <p>3 NTS</p>
<p>SECTION</p> <p>11 NTS</p>	<p>TYPICAL 8" CMU WALL AT JOIST (PERPENDICULAR)</p> <p>8 NTS</p>	<p>SECTION</p> <p>5 NTS</p>	<p>SECTION</p> <p>2 NTS</p>
<p>TYPICAL 8" CMU WALL AT JOIST (PARALLEL)</p> <p>10 NTS</p>	<p>TYPICAL BRACING AT CMU WALL AT ROOF DECK (PARAPET)</p> <p>7 NTS</p>	<p>SECTION</p> <p>4 NTS</p>	<p>SECTION</p> <p>1 NTS</p>



**NBP Engineers, Inc.**  
CONSULTANTS  
316 CORPORATE PARKWAY  
MACON, GEORGIA 31210  
478-745-1691 www.nbpengineers.com

### PACKAGED ROOF TOP ENERGY RECOVERY UNIT SCHEDULE

MARK	SUPPLY CFM	EXHAUST CFM	SUPPLY EXT. S.P. IN H <sub>2</sub> O	EXHAUST EXT. S.P. IN H <sub>2</sub> O	SUPPLY MAX. MOTOR HP	EXHAUST MAX. MOTOR HP	COOLING COIL (DX)		ELECTRIC HEATING COIL				ENERGY WHEEL								REMARKS					
							SENSIBLE MBH	TOTAL MBH	ENTERING AIR		LEAVING AIR		ENTERING AIR		LEAVING AIR		ENERGY WHEEL - SUMMER					ENERGY WHEEL - WINTER				
									DB °F	WB °F	DB °F	WB °F	DB °F	WB °F	DB °F	WB °F	SUPPLY		EXHAUST			SUPPLY		EXHAUST		
							EADB/WB (°F)	LADB/WB (°F)	EADB/WB (°F)	LADB/WB (°F)	EADB/WB (°F)	LADB/WB (°F)	EADB/WB (°F)	LADB/WB (°F)	EADB/WB (°F)	LADB/WB (°F)	EADB/WB (°F)	LADB/WB (°F)	EADB/WB (°F)	LADB/WB (°F)						
DOAS-1	4050	2,375	2.0	0.75	5	2	132	219	86.0	71.8	56.0	55.2	37.7	36.5	85.0	58.0	55	93/76	86/72	75/64	87/72	15/13	38/36	72/60	33/31	

### PACKAGED SYSTEM FOR NATATORIUM ENVIRONMENTAL CONTROL SCHEDULE

MARK	TOTAL CFM	OA CFM	MIN. EXHAUST	SA E.S.P.	RA E.S.P.	SA FAN HP	MIN. EXHAUST FAN HP	EVAP. CAP. MBH	REHEAT CAP. CONDENSER MBH	POOL WATER COIL CAP. MBH	POOL WATER FLOW GPM	MAX. POOL WATER CONDENSER PD	AUX. HEATING	INPUT MBH	OUTPUT MBH	PURGE EXHAUST CFM	PURGE E.S.P.	PURGE EXHAUST HP	REMARKS
NDU-1	24,400	3,500	3,850	1.0	0.25	6	4	781	977	915	150	7 PSI	N.G.	800	640	18,040	0.1	6	
NDU-2	9,500	1,800	1,980	1.0	0.25	6	3	259	323	285	60	6 PSI	N.G.	500	400	8,470	0.1	6	

NOTES:

### EXHAUST FAN SCHEDULE

MARK	TYPE	CFM	S.P. IN W.G.	MIN. FAN DIA. (IN)	MAX. RPM	MAX. TS.	MAX. O.V.	MOTOR HP	REMARKS
EF-1	PWF	500	.35	12	1350	4241	670	1/12	①②
EF-2	ILC	75	.25	5.5	950	1368	234	1/40	
EF-3	ILC	75	.25	5.5	950	1368	234	1/40	
TEF-1	ILC	75	.25	5.5	950	1368	402	1/40	

NOTES:  
① PROVIDE BACKDRAFT DAMPER.  
② PROVIDE BIRDSCREEN.

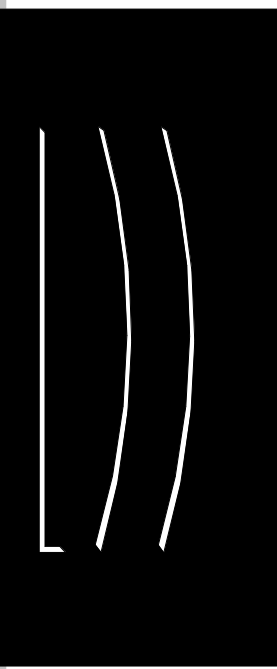
### TERMINAL UNIT SCHEDULE

MARK	TITUS SIZE	MAX CFM	MIN CFM	MIN INLET DUCT SIZE	COIL Kw	MIN # STAGES	VOLTAGE /PHASE	REMARKS
TU-1	6	245	125	6	1.5	SCR	277/1	
TU-2	8	590	295	8	3	SCR	480/3	
TU-3	10	955	480	10	4.5	SCR	480/3	
TU-4	6	450	225	6	2	SCR	277/1	
TU-5	8	590	295	8	3	SCR	480/3	
TU-6	8	920	460	8	4.5	SCR	480/3	
TU-7	6	300	150	6	1.5	SCR	277/1	

### GRILLE SCHEDULE

MARK	TYPE	TITUS	SIZE		FINISH	NECK VOLUME DAMPER	① RUNOUT	REMARKS
			FACE	NECK				
A	RLF	TMS	24"x24"	8"Ø	OFFWHITE	NO	8'Ø	②
B	RLF	TMS	24"x24"	10"Ø	OFFWHITE	NO	10'Ø	②
C	RLF	TMS	24"x24"	12"Ø	OFFWHITE	NO	12'Ø	②
D	CGC	50F	12"x24"	10"x10"	OFFWHITE	NO	10/10	
E	CGC	50F	24"x24"	8"Ø	OFFWHITE	NO	96/48	
F	CGC	50F	24"x24"	10"Ø	OFFWHITE	NO	8'Ø	
G	CGC	50F	24"x24"	12"Ø	OFFWHITE	NO	10'Ø	
H	CGC	50F	24"x24"	18"x14"	OFFWHITE	NO	12'Ø	
J	CGC	50F	24"x24"	24"x14"	OFFWHITE	NO	24/14	
K	WRAG	350FL	24"x24"	10"x10"	OFFWHITE	NO	10/10	
L	WRAG	350FL	24"x14"	24"x14"	OFFWHITE	NO	24/14	
M	AWRAG-HD	63F	96"x48"	96"x48"	OFFWHITE	NO	96/48	
N	NBW	1700L	12"x6"	12"x6"	OFFWHITE	NO	12/6	

NOTES:  
① RUNOUT SIZE UNLESS OTHERWISE NOTED.  
② PROVIDE FACTORY INSULATED PLENUM, FLANGE BORDER, CONCEALED MOUNTING, CONTINUOUS APPEARANCE.



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REVISIONS  
1 | 04/25/22 | Addendum #4



NBP ENGINEERS, INC.  
COA#PEF00774  
EXPIRES: 06/30/2022

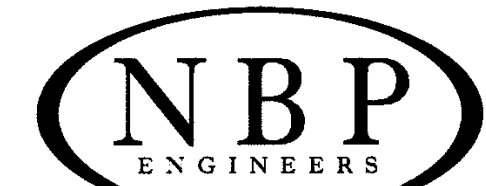
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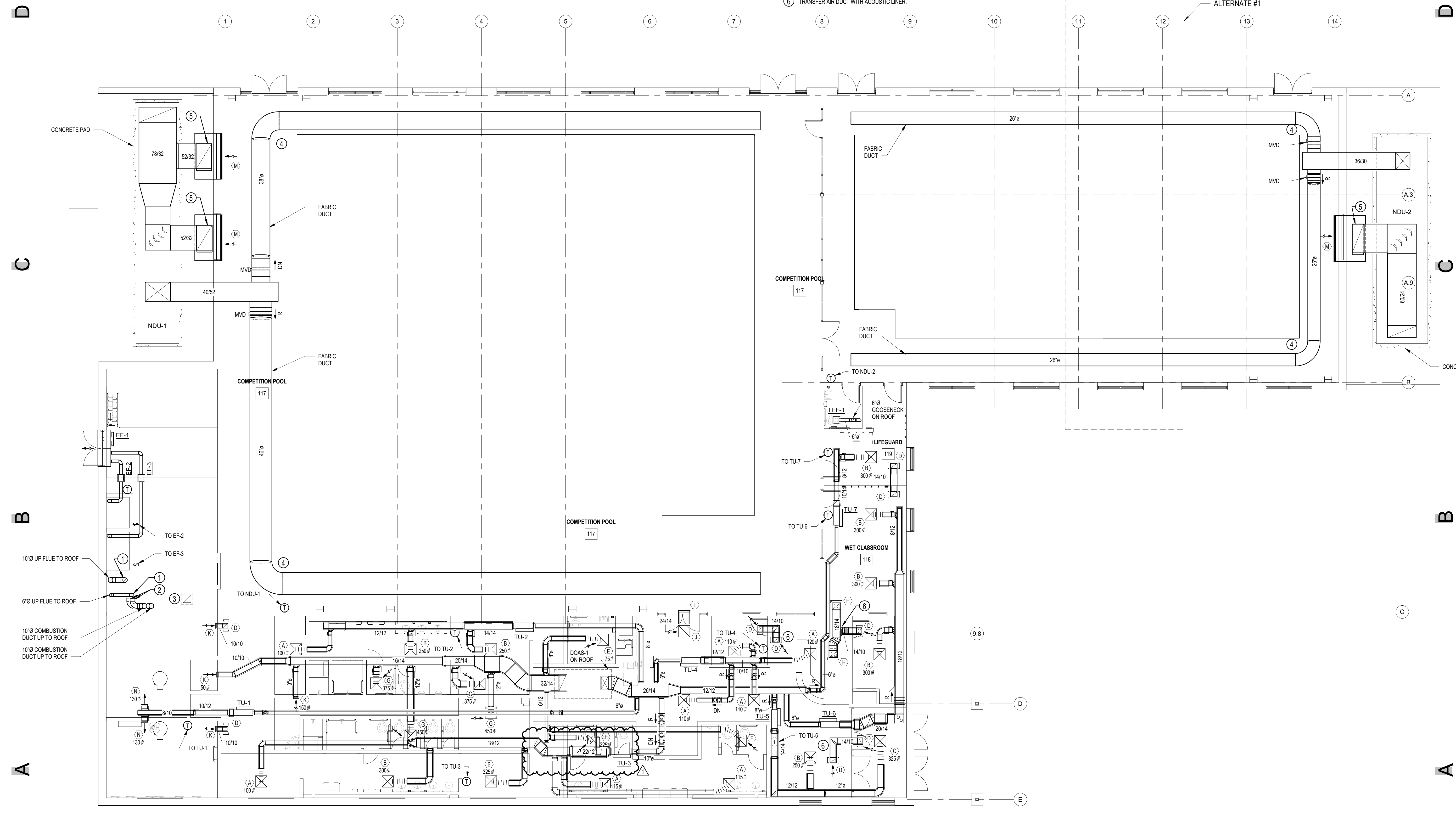
TITLE SCHEDULES - HVAC

STATUS BID SET  
JOB 120007.00  
QC WSH  
DRAWN JJH  
SHEET **M0.02**  
DATE 01/28/2022



**NBP Engineers, Inc.**  
CONSULTANTS  
316 CORPORATE PARKWAY  
MACON, GEORGIA 31210  
478-745-1691 www.nbpengineers.com

- NOTES: (THIS SHEET ONLY)**
- EXTEND FLUE DOWN TO POOL HEATER EXHAUST DUCT COLLAR.
  - EXTEND COMBUSTION DUCT TO POOL HEATER AIR INTAKE COLLAR.
  - OA INTAKE HOOD WITH 16"x16" THROAT ON ROOF. PROVIDE FULLSIZE AVD IN THROAT.
  - DISTRIBUTE FABRIC DUCT AIRFLOW SUCH THAT NO HANGING LIGHT FIXTURES ARE DIRECTLY IN PATH OF AIR PENETRATIONS OR NOZZLES.
  - TAP RETURN INTO TOP OF FULLSIZE PLENUM FROM GRILLE "M".
  - TRANSFER AIR DUCT WITH ACOUSTIC LINER.



**1 LEVEL 1 PLAN - HVAC**  
1/8" = 1'-0"

Lyman Davidson Dooley, Inc.  
1640 Powers Ferry Road  
Building One  
Marietta, GA 30067  
770.850.8494  
770.956.9030  
lddl-architects.com



**REVISIONS**

1	04/25/22	Addendum #4
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NBP ENGINEERS, INC.  
COA#PEF00774  
EXPIRES: 06/30/2022

**Spalding** COUNTY  
**Aquatic Center**  
Griffin, GA

Spalding County Aquatic Center  
561 Rehoboth Rd.  
Griffin, GA 30224

Spalding County Parks & Recreation  
841 Memorial Dr  
Griffin, GA 30223

TITLE LEVEL 1 PLAN - HVAC

STATUS BID SET  
JOB 120007.00  
QC WSH  
DRAWN JHH  
SHEET **M2.01**  
DATE 01/28/2022

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LIGHTING FIXTURE SCHEDULE					
MARK	LAMPS	VOLT.	FIXTURE TYPE-SEE SPECIFICATIONS	MOUNTING	REMARKS
A	LED 4800 LUMENS 38 WATTS 3500K	277 (UNV)	2' x 2' LED EDGE LIT FLAT PANEL ACUITY EPNL	RECESSED GRID/GYP.	0-10V DIMMING - 10% FINISH BY ARCH
	EQUALS BY:		METALUX DAYBRITE 2FPZ.		
B	LED 6000 LUMENS 50 WATTS 3500K	277 (UNV)	UTILITY FIXTURE COLUMBIA MPS SERIES: MPS-4-35-HL-F-W-ED-U TYPE UE IF EMERGENCY	CEILING MOUNTED SURFACE OR CHAIN @ 12'-0" A.F.F.	0-10V DIMMING - 10% FINISH BY ARCH
	EQUALS BY:		ACUITY CLX, METALUX SNLED DAYBRITE FSS.		
C	LED 1500 LUMENS 20 WATTS 3500K	277 (UNV)	6" ROUND DOWNLIGHT ELITE HH6: HH6-LED-1500L-DIM10-MVOLT-35K-MD	RECESSED GRID/GYP.	0-10V DIMMING - 10% FINISH BY ARCH
	EQUALS BY:		ACUITY LDN6, COMMERCIAL PD6 LIGHTOLIER 6RN.		
F1	LED 29700 LUMENS 203 WATTS 4000K	277	LED POOL UP/DN LIGHT LUX DYNAMICS WAVEP-1- SERIES WAVEP-6-840-1-U10-WSA1-DEF1 PROVIDE STAINLESS STEEL MOUNTING HARDWARE	PENDANT, HEIGHT VARIES SEE ARCH. ELEVATIONS	PROVIDE PERFORATED DEFLECTOR, NATATORIUM RATED
F2	LED 64600 LUMENS 432 WATTS 4000K	277	LED POOL UP/DN LIGHT LUX DYNAMICS WAVEP-2- SERIES WAVEP-2-840-U10-WSA2-DEF2 PROVIDE STAINLESS STEEL MOUNTING HARDWARE	PENDANT, HEIGHT VARIES SEE ARCH. ELEVATIONS	PROVIDE PERFORATED DEFLECTOR, NATATORIUM RATED
S	LED 4050 LUMENS 32 WATTS 4000K	277	WALL MOUNT LED SECURITY/AREA LIGHT ACUITY TWPX2 SERIES	WALL SEE ARCH ELEVATIONS FOR HEIGHT	PROVIDE WITH EM BATTERY PACK OR INVERTER
	EQUALS BY:		HUBBELL, COOPER, CREE		
T	LED  4000K	277	SURFACE MOUNT LED CANOPY 11" SQUARE JUNO SLIM FORMS	SURFACE MOUNT KIT	PROVIDE WITH EM BATTERY PACK
	EQUALS BY:		STONCO GC60.		
X-1P	LED (UNV)	277	NATATORIUM RATED SINGLE FACE EXIT SIGN ACUITY LV SERIES: LV S AW 1 R 120/277 EL N UM INCLUDE INTEGRAL BATTERY PACK LIGHTALARMS, SURE-LITES BEGHELLI.	UNIVERSAL WALL, HEIGHT VARIES, SEE ARCH ELEV. FOR HEIGHT	RED LETTERS SEE PLANS FOR ARROW INDICATORS AND MOUNTING CONFIGURATION
	EQUALS BY:		LIGHTALARMS, SURE-LITES CX BEGHELLI OL2.		
X-1	LED (UNV)	277	SINGLE FACE EDGE-LIT EXIT SIGN ACUITY EDG SERIES: EDG 1 R EL INCLUDE INTEGRAL BATTERY PACK	UNIVERSAL	RED LETTERS SEE PLANS FOR ARROW INDICATORS AND MOUNTING CONFIGURATION
	EQUALS BY:		LIGHTALARMS, SURE-LITES CX BEGHELLI OL2.		
X-2	LED (UNV)	277	DOUBLE FACE EDGE-LIT EXIT SIGN ACUITY EDG SERIES: EDG 2 R EL INCLUDE INTEGRAL BATTERY PACK	UNIVERSAL	RED LETTERS SEE PLANS FOR ARROW INDICATORS AND MOUNTING CONFIGURATION
	EQUALS BY:		LIGHTALARMS, SURE-LITES CX BEGHELLI OL2.		

LC1 RELAY SCHEDULE				
AUTOMATIC CONTROL BY	MANUAL CONTROL BY	RELAY #	CIRCUIT NUMBER	SERVING
TIME CLOCK	LOW VOLTAGE SWITCH	1	HL-1.1	INSTRUCTIONAL POOL
TIME CLOCK / PHOTOCELL	LOW VOLTAGE SWITCH	2	HL-1-3.5.7	COMPETITION POOL
TIME CLOCK / PHOTOCELL	LOW VOLTAGE SWITCH	3	HL-1-13	LOBBY
		4		
		5		
		6		
		7		
		8		
		9		
		10		
		11		
		12		

NOTES:  
1. OPERATION OF MANUAL SWITCH AFTER OFFICE HOURS WILL OVERRIDE RELAY PANEL FOR 2 HOURS.  
2. STANDARD INTERIOR OPERATION SHALL BE USER ONTIMECLOCK OFF.

ELECTRICAL LEGEND			
LIGHTING FIXTURES (SYMBOLS VARY BASED ON FIXTURES TYPE)			
	LED ON "NORMAL" POWER		LIFE SAFETY EGRESS FIXTURE
	CEILING MOUNTED FIXTURE		EXIT LIGHT (ARROWS AS SHOWN)
	WALL MOUNTED FIXTURE		
LIGHTING CONTROL			
	SINGLE POLE SWITCH		CEILING MOUNTED ULTRASONIC OCCUPANCY SENSOR AND RELAY
	THREE WAY SWITCH		CEILING/WALL MOUNTED INFRARED OCCUPANCY SENSOR AND RELAY
	FOUR WAY SWITCH		CEILING MOUNTED COMBINATION INFRARED/ULTRASONIC OCCUPANCY SENSOR AND RELAY - VACANCY AUTO SHUT OFF
	DIMMER SWITCH		WALL MOUNTED INFRARED OCCUPANCY SENSOR
	KEYED SWITCH		LOW VOLTAGE OVERRIDE SWITCH
	WALL MOUNTED SWITCH		SINGLE ZONE LOW VOLTAGE SWITCH
	INFRARED OCCUPANCY SENSOR		TWO ZONE LOW VOLTAGE SWITCH
	LOW VOLTAGE OVERRIDE SWITCH		FOUR ZONE LOW VOLTAGE SWITCH
	SINGLE ZONE LOW VOLTAGE SWITCH		EXTERIOR TYPE PHOTO SWITCH
	TWO ZONE LOW VOLTAGE SWITCH		*"P" INDICATES PILOT LIGHT
	FOUR ZONE LOW VOLTAGE SWITCH		
RECEPTACLES			
	DUPLEX RECEPTACLE - NORMAL		ELECTRIC WATER COOLER RECEPTACLE(GFCI)
	QUAD - NORMAL		WEATHER PROOF RECEPTACLE (GFCI)
	GFCI DUPLEX RECEPTACLE - NORMAL		HORIZONTALLY MOUNTED DUPLEX RECEPTACLE
	GFCI QUAD - NORMAL		SPECIAL - TYPE NOTED OR SHOWN
	FLOOR DUPLEX RECEPTACLE - NORMAL		CEILING SPECIAL - TYPE NOTED OR SHOWN
	FLOOR QUAD - NORMAL		WALL/CEILING RACEWAY
	CEILING DUPLEX RECEPTACLE - NORMAL		CLOCK OUTLET
	DUPLEX RECEPTACLE WITH INTEGRAL USB		ABOVE COUNTER DUPLEX RECEPTACLE (COORDINATE HEIGHT WITH ARCHITECT)
	TV DUPLEX RECEPTACLE		DUPLEX RECEPTACLE - GENERATOR CIRCUIT, RED IN COLOR
	DUPLEX RECEPTACLE MOUNTED IN RACEWAY		QUAD - GENERATOR CIRCUIT, RED IN COLOR
	DUPLEX RECEPTACLE - TAMPER PROOF		
CIRCUITS			
	CONDUIT CONCEALED IN CEILING OR WALL		RACEWAY EXPOSED
	CONDUIT IN GROUND, SLAB, OR UNDER FLOOR		FLEXIBLE RACEWAY
	HOMERUN		CONDUIT UP
			CONDUIT DOWN
			CAP
			CONNECTION TO EQUIPMENT
GENERAL EQUIPMENT			
	PANELBOARD SURFACE MOUNTED		SURGE SUPPRESSOR
	PANELBOARD RECESSED		JUNCTION BOX - WALL/CEILING/FLOOR
	TRANSFORMER		MOTOR
	DISCONNECT SWITCH: FRAME AMPS/POLES/NEMA TYPE FUSE PER MANUFACTURERS RECOMMENDATIONS		EXHAUST FAN
			COMBINATION STARTER AND DISCONNECT
			MANUAL STARTER AND MOTOR RATED SWITCH
			EMERGENCY PUSHBUTTON
			ENCLOSED CIRCUIT BREAKER
			ENCLOSED BREAKER-RECESSED IN WALL
FIRE PROTECTION EQUIPMENT			
	FIRE ALARM PANEL		DUCT MOUNTED SMOKE DETECTOR
	FIRE ALARM ANNUNCIATOR		MANUAL PULL STATION
	MANUAL PULL STATION		SMOKE DETECTOR: CEILING / WALL
	AUDIO/VISUAL ALARM: CEILING/WALL		HEAT DETECTOR: CEILING / WALL
	VISUAL ALARM: CEILING/WALL		WATER FLOW SWITCH
	SPEAKER/VISUAL ALARM: CEILING/WALL		WATER TAMPER SWITCH
	SMOKE DETECTOR/SENSOR - BEAM TRANSMITTER		DOOR HOLDER
	SMOKE DETECTOR/SENSOR - BEAM RECEIVER		
COMMUNICATIONS			
	VOICE OUTLET, QUANTITY OF JACKS AS NOTED		MICROPHONE: FLOOR/WALL
	DATA OUTLET, QUANTITY OF JACKS AS NOTED		SPEAKER: CEILING/WALL
	COMBINATION VOICE/DATA OUTLET, QUANTITY OF VOICE/DATA JACKS AS NOTED		FIBER OUTLET
	FLOOR VOICE OUTLET, QUANTITY OF JACKS AS NOTED		TELEVISION OUTLET
	FLOOR DATA OUTLET, QUANTITY OF JACKS AS NOTED		BOX, STUB-UP, AND MODULAR PLATE W/ BLANKS
	FLOOR COMBINATION VOICE/DATA OUTLET, QUANTITY OF JACKS AS NOTED		WALL MOUNTED VOLUME CONTROL
	DATA OUTLET MOUNTED IN RACEWAY		INTERCOM CALL-IN STATION
			INTERCOM MASTER STATION
			MASTER CLOCK
			J-HOOK
			CABLE TRAY
SECURITY			
	CARD READER		SECURITY CAMERA: CEILING/WALL MOUNTED
	DOOR POSITION SENSOR		
	ELECTRIC STRIKE		

**NBP ENGINEERS**  
**NBP Engineers, Inc.**  
 CONSULTANTS  
 316 CORPORATE PARKWAY  
 MACON, GEORGIA 31210  
 478-745-1691 www.nbpengineers.com

ARCHITECTURE  
PLANNING  
INTERIOR DESIGN

Lyman Davidson Dooley, Inc.  
 1640 Powers Ferry Road  
 Building One  
 Marietta, GA 30067  
 770.850.8494  
 770.956.9030  
 lddi-architects.com

PARAGON

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 2 | 04/25/22 | Addendum #4

REGISTERED PROFESSIONAL ENGINEER  
 NO. 03062  
 KEVIN M. SMITH

NBP ENGINEERS, INC.  
 COA#PEF000774  
 EXPIRES: 06/30/2022

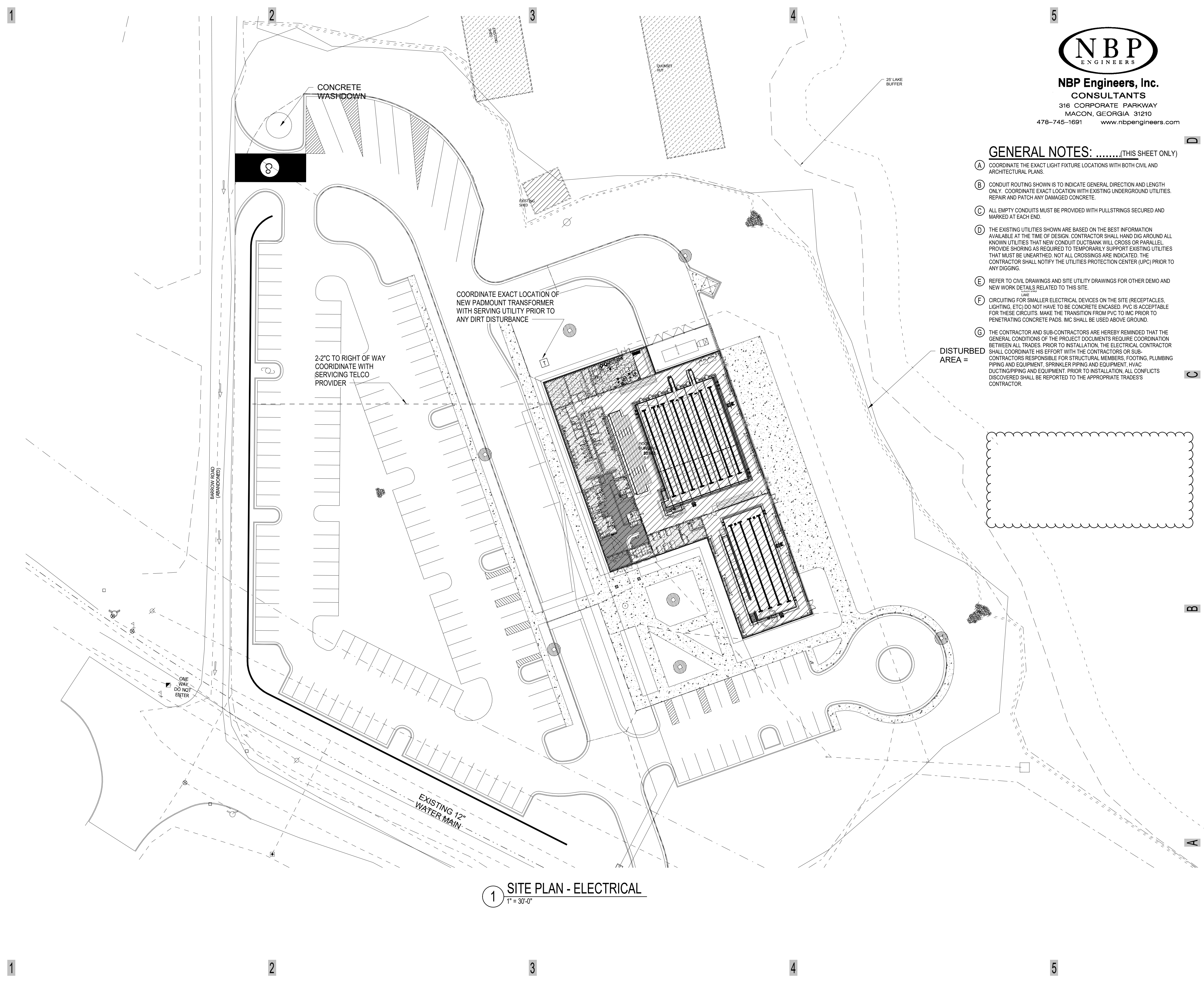
Spalding County Aquatic Center  
 Griffin, GA

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 Griffin, GA 30223

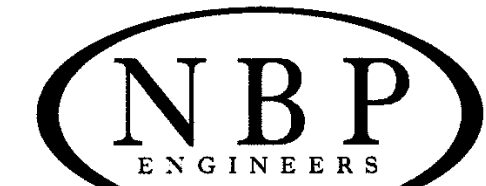
LEGEND AND SCHEDULES - ELECTRICAL

STATUS: BID SET  
 JOB: 120007.00  
 QC: KMS  
 DRAWN: JCW  
 SHEET: E0.01  
 DATE: 01/28/2022

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1 SITE PLAN - ELECTRICAL  
1" = 30'-0"



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MACON, GEORGIA 31210  
478-745-1691 www.nbpengineers.com

**GENERAL NOTES: .....(THIS SHEET ONLY)**

- (A) COORDINATE THE EXACT LIGHT FIXTURE LOCATIONS WITH BOTH CIVIL AND ARCHITECTURAL PLANS.
- (B) CONDUIT ROUTING SHOWN IS TO INDICATE GENERAL DIRECTION AND LENGTH ONLY. COORDINATE EXACT LOCATION WITH EXISTING UNDERGROUND UTILITIES. REPAIR AND PATCH ANY DAMAGED CONCRETE.
- (C) ALL EMPTY CONDUITS MUST BE PROVIDED WITH PULLSTRINGS SECURED AND MARKED AT EACH END.
- (D) THE EXISTING UTILITIES SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE AT THE TIME OF DESIGN. CONTRACTOR SHALL HAND DIG AROUND ALL KNOWN UTILITIES THAT NEW CONDUIT DUCTBANK WILL CROSS OR PARALLEL. PROVIDE SHORING AS REQUIRED TO TEMPORARILY SUPPORT EXISTING UTILITIES THAT MUST BE UNEARTHED. NOT ALL CROSSINGS ARE INDICATED. THE CONTRACTOR SHALL NOTIFY THE UTILITIES PROTECTION CENTER (UPC) PRIOR TO ANY DIGGING.
- (E) REFER TO CIVIL DRAWINGS AND SITE UTILITY DRAWINGS FOR OTHER DEMO AND NEW WORK DETAILS RELATED TO THIS SITE.
- (F) CIRCUITING FOR SMALLER ELECTRICAL DEVICES ON THE SITE (RECEPTACLES, LIGHTING, ETC) DO NOT HAVE TO BE CONCRETE ENCASED. PVC IS ACCEPTABLE FOR THESE CIRCUITS. MAKE THE TRANSITION FROM PVC TO IMC PRIOR TO PENETRATING CONCRETE PADS. IMC SHALL BE USED ABOVE GROUND.
- (G) THE CONTRACTOR AND SUB-CONTRACTORS ARE HEREBY REMINDED THAT THE GENERAL CONDITIONS OF THE PROJECT DOCUMENTS REQUIRE COORDINATION BETWEEN ALL TRADES. PRIOR TO INSTALLATION, THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS EFFORT WITH THE CONTRACTORS OR SUB-CONTRACTORS RESPONSIBLE FOR STRUCTURAL MEMBERS, FOOTING, PLUMBING PIPING AND EQUIPMENT, SPRINKLER PIPING AND EQUIPMENT, HVAC DUCTING/PIPING AND EQUIPMENT. PRIOR TO INSTALLATION, ALL CONFLICTS DISCOVERED SHALL BE REPORTED TO THE APPROPRIATE TRADES CONTRACTOR.

DISTURBED AREA =

ARCHITECTURE  
PLANNING  
INTERIOR DESIGN

**Lyman Davidson Dooley, Inc.**  
1640 Powers Ferry Road  
Building One  
Marietta, GA 30067  
770.850.8494 f  
770.956.9030 f  
ltdi-architects.com



NO.	REVISIONS



NBP ENGINEERS, INC.  
COA#PEF000774  
EXPIRES: 06/30/2022

**Spalding County Aquatic Center**  
Griffin, GA

**Spalding County Aquatic Center**

561 Rehoboth Rd.  
Griffin, Ga 30224

**Spalding County Parks & Recreation**  
841 Memorial Dr.  
Griffin, GA 30223

TITLE SITE PLAN - ELECTRICAL

STATUS BID SET

JOB 120007.00

QC KMS

DRAWN JCW

SHEET **E1.01**

DATE 01/28/2022

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**NOTES: (THIS SHEET ONLY)**

- ① PROVIDE RECEPTACLE WITHIN A SURFACE MOUNT BOX MOUNTED TO THE MILLWORK DESK.
- ② COORDINATE CONCEALED HANDDRYER ELECTRICAL BOX LOCATION WITH ACTUAL EQUIPMENT TO BE PROVIDED. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT.
- ③ COORDINATE JUNCTION BOX FOR POWER ASSIST DOOR WITH ACTUAL EQUIPMENT TO BE PROVIDED. REFER TO DETAIL.
- ④ COORDINATE TIMING/SCORING SYSTEM RECEPTACLE, AV BOX, AND TELECOM BOX HEIGHTS WITH ACTUAL EQUIPMENT TO BE PROVIDED. INSTALL THESE 3 BOXES ADJACENT TO ONE ANOTHER BEHIND A COMMON COVER PLATE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

**NOTES: (THIS SHEET ONLY, CONT.)**

- ⑤ EPO SHALL SERVE AS INPUT TO SHUNT TRIP BREAKER IN PANEL HPOOL.
- ⑥ DEDICATED POOL VACUUM RECEPTACLE. AFFIX A PERMANENT LABEL TO THIS DEVICE TO READ 'POOL VACUUM'.

**DEDUCTIVE ALTERNATE #1**

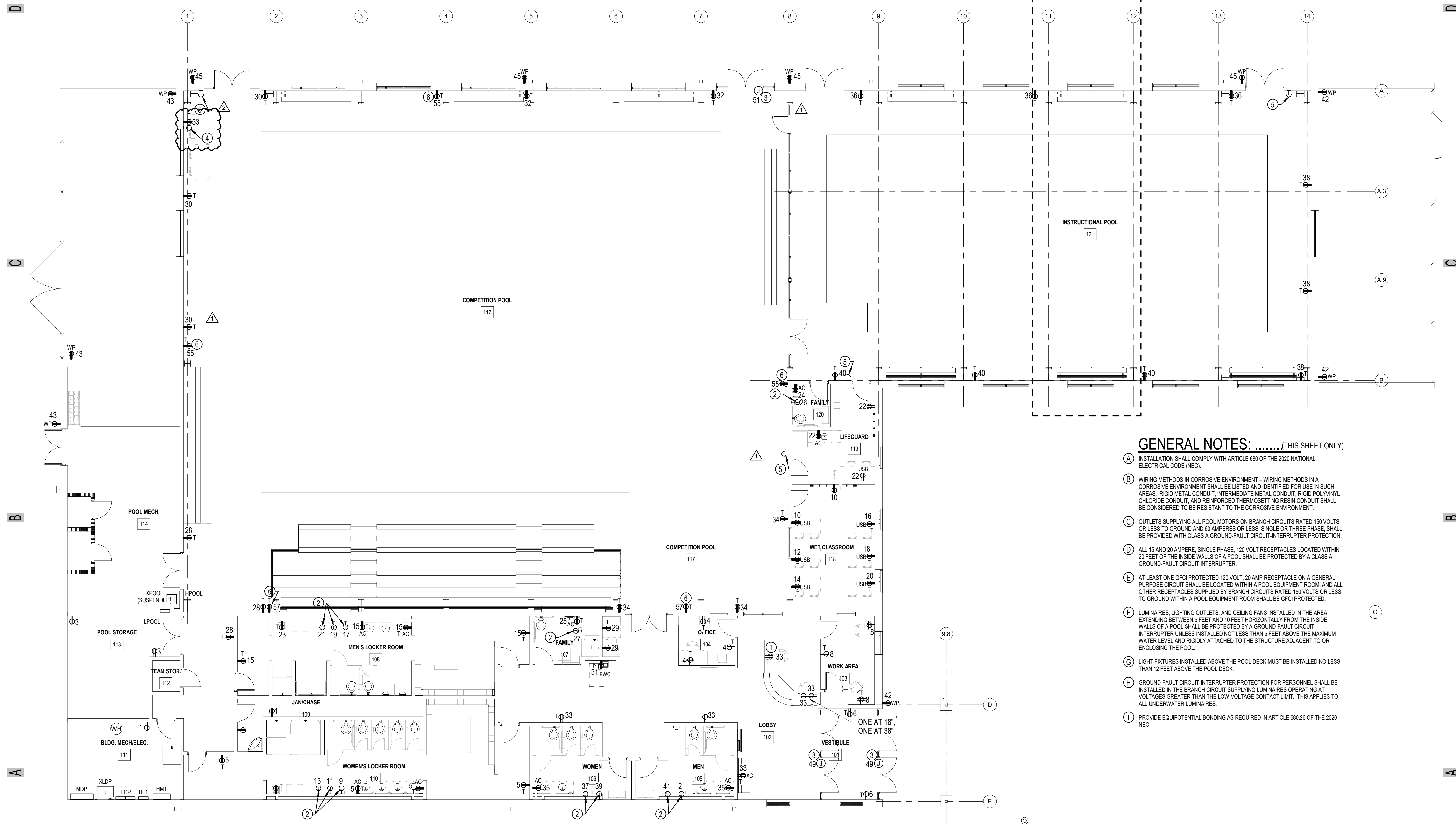
IF THIS DEDUCTIVE ALTERNATE IS TAKEN OMIT ALL ELECTRICAL DEVICES BETWEEN COLUMN LINES 11 AND 12. SHIFT ANY CONTROL DEVICES SHOWN BETWEEN THESE TWO COLUMN LINES HORIZONTALLY, SHOWING THOSE DEVICES TO BE CENTERED IN THE REMAINING SPACE.



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CONSULTANTS

316 CORPORATE PARKWAY  
MACON, GEORGIA 31210

478-745-1691 www.nbpengineers.com



**GENERAL NOTES: (THIS SHEET ONLY)**

- (A) INSTALLATION SHALL COMPLY WITH ARTICLE 680 OF THE 2020 NATIONAL ELECTRICAL CODE (NEC).
- (B) WIRING METHODS IN CORROSIVE ENVIRONMENT - WIRING METHODS IN A CORROSIVE ENVIRONMENT SHALL BE LISTED AND IDENTIFIED FOR USE IN SUCH AREAS. RIGID METAL CONDUIT, INTERMEDIATE METAL CONDUIT, RIGID POLYVINYL CHLORIDE CONDUIT, AND REINFORCED THERMOSETTING RESIN CONDUIT SHALL BE CONSIDERED TO BE RESISTANT TO THE CORROSIVE ENVIRONMENT.
- (C) OUTLETS SUPPLYING ALL POOL MOTORS ON BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND AND 60 AMPERES OR LESS, SINGLE OR THREE PHASE, SHALL BE PROVIDED WITH CLASS A GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION.
- (D) ALL 15 AND 20 AMPERE, SINGLE PHASE, 120 VOLT RECEPTACLES LOCATED WITHIN 20 FEET OF THE INSIDE WALLS OF A POOL SHALL BE PROTECTED BY A CLASS A GROUND-FAULT CIRCUIT INTERRUPTER.
- (E) AT LEAST ONE GFCI PROTECTED 120 VOLT, 20 AMP RECEPTACLE ON A GENERAL PURPOSE CIRCUIT SHALL BE LOCATED WITHIN A POOL EQUIPMENT ROOM, AND ALL OTHER RECEPTACLES SUPPLIED BY BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND WITHIN A POOL EQUIPMENT ROOM SHALL BE GFCI PROTECTED.
- (F) LUMINAIRES, LIGHTING OUTLETS, AND CEILING FANS INSTALLED IN THE AREA - EXTENDING BETWEEN 5 FEET AND 10 FEET HORIZONTALLY FROM THE INSIDE WALLS OF A POOL SHALL BE PROTECTED BY A GROUND-FAULT CIRCUIT INTERRUPTER UNLESS INSTALLED NOT LESS THAN 5 FEET ABOVE THE MAXIMUM WATER LEVEL AND RIGIDLY ATTACHED TO THE STRUCTURE ADJACENT TO OR ENLOSING THE POOL.
- (G) LIGHT FIXTURES INSTALLED ABOVE THE POOL DECK MUST BE INSTALLED NO LESS THAN 12 FEET ABOVE THE POOL DECK.
- (H) GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL SHALL BE INSTALLED IN THE BRANCH CIRCUIT SUPPLYING LUMINAIRES OPERATING AT VOLTAGES GREATER THAN THE LOW-VOLTAGE CONTACT LIMIT. THIS APPLIES TO ALL UNDERWATER LUMINAIRES.
- (I) PROVIDE EQUIPOTENTIAL BONDING AS REQUIRED IN ARTICLE 680.26 OF THE 2020 NEC.

**LEVEL 1 PLAN - POWER**  
1/8" = 1'-0"

REVISIONS	
1	01/28/22 PERMIT/CC COMM.
2	04/25/22 Addendum #4



NBP ENGINEERS, INC.  
COA#PEF000774  
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561 Rehoboth Rd.  
Griffin, Ga 30224

TITLE LEVEL 1 PLAN - POWER

STATUS BID SET

JOB 120007.00

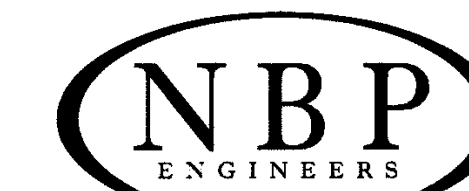
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SHEET **E3.01**

DATE 01/28/2022





**NBP Engineers, Inc.**  
 CONSULTANTS  
 316 CORPORATE PARKWAY  
 MACON, GEORGIA 31210  
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ARCHITECTURE  
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1	01/28/22 PERMIT/ICC COMM.
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NBP ENGINEERS, INC.  
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**Spalding**  
 COUNTY  
**Aquatic Center**  
 Griffin, GA

Spalding County  
 Aquatic Center

561 Rehoboth Rd.  
 Griffin, GA 30224

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 & Recreation  
 841 Memorial Dr.  
 Griffin, GA 30223

TITLE LEVEL 1 PLAN -  
 TELECOM

STATUS BID SET

JOB 120007.00

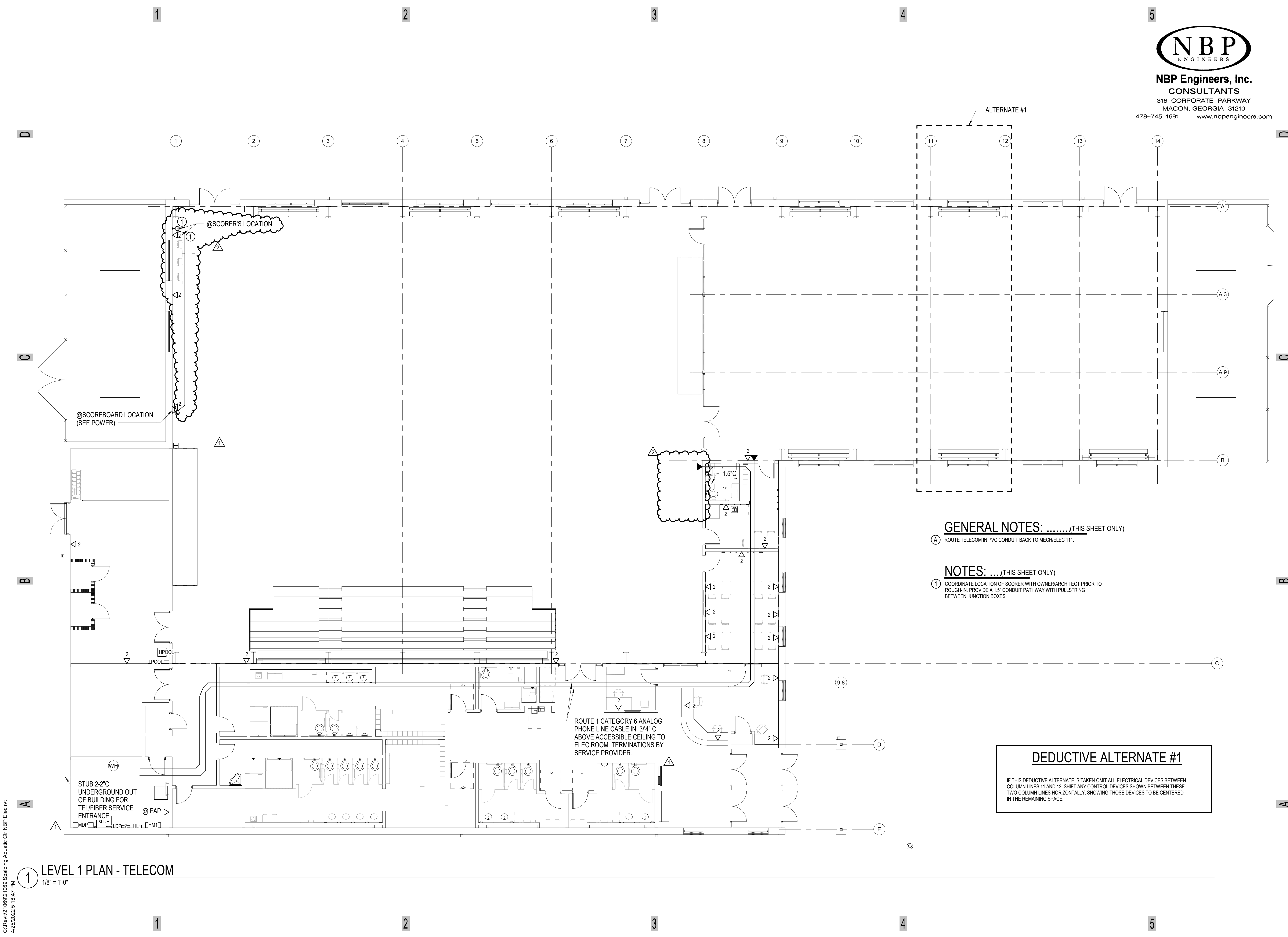
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SHEET **T2.01**

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**GENERAL NOTES:** .....(THIS SHEET ONLY)  
 (A) ROUTE TELECOM IN PVC CONDUIT BACK TO MECHELEC 111.

**NOTES:** ....(THIS SHEET ONLY)  
 (1) COORDINATE LOCATION OF SCORER WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN. PROVIDE A 1.5" CONDUIT PATHWAY WITH PULLSTRING BETWEEN JUNCTION BOXES.

**DEDUCTIVE ALTERNATE #1**  
 IF THIS DEDUCTIVE ALTERNATE IS TAKEN OMIT ALL ELECTRICAL DEVICES BETWEEN COLUMN LINES 11 AND 12. SHIFT ANY CONTROL DEVICES SHOWN BETWEEN THESE TWO COLUMN LINES HORIZONTALLY, SHOWING THOSE DEVICES TO BE CENTERED IN THE REMAINING SPACE.

ROUTE 1 CATEGORY 6 ANALOG  
 PHONE LINE CABLE IN 3/4" C  
 ABOVE ACCESSIBLE CEILING TO  
 ELEC ROOM. TERMINATIONS BY  
 SERVICE PROVIDER.

STUB 2-2" C  
 UNDERGROUND OUT  
 OF BUILDING FOR  
 TEL/FIBER SERVICE  
 ENTRANCE @ FAP  
 [MDP] [XLLP] [LDP] [HL] [HM]

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**1 LEVEL 1 PLAN - TELECOM**  
 1/8" = 1'-0"