ALTERATION OF EXISTING PATIO

MAT'L LEGEND GENERAL NOTES THE SCOPE OF WORK IS EXTERIOR PATIO ALTERATION, WHERE THE CONTRACTOR FINDS CONDITIONS NEEDING ADDITIONAL WORK NOT SHOWN OR NOT NOTED, HE SHALL NOTIFY THE OWNER IN WRITING AND GET AN APPROVAL BEFORE PROCEEDING. PLYWOOD $\leftarrow \leftarrow \leftarrow \leftarrow \leftarrow \leftarrow$ AND GET AN APPROVAL BEFORE PROCEEDING. THE DIMENSIONS, LOCATIONS, AND DETAILS SHOWN ARE BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF PREPARATION OF THESE DRAWINGS. DEVIATIONS WHICH ARE NECESSARY OR WHICH CONFLICT SHALL BE REPORTED TO THE ARCHITECT AND/OR OWNER. CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR DEVIATIONS NOT APPROVED BY THE ARCHITECT AND/OR THE OWNER. TEXTURE IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO EXERCISE EXTREME CARE IN 1 - 11REGARD TO ALL EXISTING UTILITIES, TRAFFIC SIGNS, STREET MARKERS, SHUBBERY, DRIVEWAYS, WALKS, ETC., WHETHER SHOWN ON THE DRAWINGS OR NOT, AND THE CONTRACTOR SHALL EITHER REPAIR THE DAMAGE OR MAKE RESTITUTION TO THE OWNER OF SUCH PROPERTY. ALL DIMENSIONS AND EXISTING CONDITIONS AS SHOWN ARE APPROXIMATE AND FOR GENERAL GUIDELINE PURPOSES ONLY. CONTRACTOR TO CHECK AND VERIFY ALL GYPSUM DIMENSIONS AND EXISTING CONDITIONS PRIOR TO BIDDING AND/OR CONSTRUCTION ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ARCHITECT PRIOR ^__^ ^ _ ^ BOARD PERTAIN TO COMMENCING ANY WORK. THE CONTRACTOR SHALL VISIT AND EXAMINE THE SITE OF WORK, THE QUANTITY OF WORK. AND CONDITION OF THE SITE PRIOR TO SUBMITTING BID PROPOSAL, AND SATISFY HIMSELF THAT THE WORK CAN BE COMPLETED AS SET FORTH FINISH IN THE CONSTRUCTION PLAN. ANY ALTERNATE TO THE CONSTRUCTION PROCEDURES DESCRIBED HEREIN SHALL BE IDENTIFIED WITH THE BID SUBMITTAL 7. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS PERTAINING TO THE HEALTH AND SAFETY OF EMPLOYEES, AND HOLD HARMLESS THE OWNER AND THE ARCHITECT REGARDING SUCH ACTIONS. THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND INSPECTIONS, STATE AND LOCALLY REQUIRED, AND MUST PAY FOR SAME. 9. IT SHALL BE REQUIRED THAT ALL MATERIALS AND WORKMANSHIP COMPLY WITH THE REQUIREMENTS OF BOTH LOCAL ORDINANCES AND THE APPLICABLE BUILDING CODES, LATEST EDITION, INCLUDING ALL ADDENDA. ALL INTERIOR FINISHES TO BE CLASS 'A' OR 'B' 10. THE LOCATION OF EXISTING UNDERGROUND UTILITIES, IF SHOWN, ARE PER RECORD DRAWINGS AND HAVE NOT BEEN VERIFIED BY ACTUAL FIELD CHECKS. CONTRACTOR TO VERIFY EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. 11. CLEAN UP SHALL BE PERFORMED CONTINUOUSLY DURING WORKING DAYS TO KEEP BUILDINGS AND PREMISES FREE FROM FROM ACCUMULATION OF WASTE MATERIALS OF ABBREVIA LIST AND RUBBISH. AT THE COMPLETION OF THE WORK, REMOVE ALL WASTE, RUBBISH, AND UNUSED SURPLUS MATERIALS FROM AND AROUND THE SITE AND PREMISES, AND LEAVE THE SITE CLEAN. JUST PRIOR TO INSPECTION, REMOVE ALL DUST, DIRT, -ALT. INTERRUPTING F.O.S. -FACE A.I.C. AND STAINS FROM FINISHED SURFACE AND LEAVE WORK READY FOR USE. F.R.P. CAPACITY -FIRE F.S. -FLOOF A.B. -ANCHOR BOLT 12. COORDINATION OF ALL WORK BETWEEN DIFFERENT TRADES IS THE -ABOVE FINISHED FLOOR FT. -FOOT A.F.F. RESPONSIBILITY OF THE GENERAL CONTRACTOR. FTG. -FOOTIN ALT. -ALTERNATE 14. AT THE END OF CONSTRUCTION, THE CONTRACTOR SHALL DELIVER TO THE -GAUGE GA. ALUM. -ALUMINUM OWNER A COMPLETE SET OF "AS-BUILT" DRAWINGS SHOWING LOCATIONS OF AUX. GALV. -AUXILIARY -GALVA WORK INSTALLED, INCLUDING CHANGES TO ALL UNDERGROUND UTILITIES, -GENEF B.O. -BOTTOM OF G.C. CERTIFICATES, AFFIDAVITS, OPERATION INSTRUCTIONS, MANUFACTURE'S G.P.M. -GALLO -BOARD INSTRUCTIONS ON ALL EQUIPMENT, AND DEMONSTRATE THAT ALL IS IN -BLOCKING BLK'G. GRD. -GROUN PROPER WORKING ORDER. G.W. -GREAS -BEAM BM 15. SUBMIT CONSTRUCTION SCHEDULE FOR THE WORK. INDICATING WORKING BOT. GYP. -GYPSL -BOTTOM HORIZ. HOURS, DELIVERIES OF MATERIALS, AND DISRUPTION OF OPERATIONS OF BRZ. -HORIZ -BRONZE BUSINESS TO THE OWNER FOR APPROVAL BEFORE CONSTRUCTION IS STARTED. HT. -HEIGH -CENTER LINE H.W. -HOT , COND. -CONDUIT 17. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FURNISH AND INSTALL ALL H.D. -HAND -CEILING WORK, FIXTURES, AND EQUIPMENT NECESSARY TO COMPLETE THE PROJECT. CLG. I.D. -INTERI COL. -COLUMN 18. ALL PATCHING OF FLOORS, CUTTING OR OPENINGS IN EXISTING WALLS AND INSUL. CONC. -CONCRETE -INSUL4 CEILING, CHASING FLOORS FOR PLUMBING PIPES AND ELECTRICAL CONDUITS CONN. -CONNECTION L.L.H. -LONG DUE TO AND FOR THE CONSTRUCTION OF NEW WORK, AND RESTORING TO CONT. L.L.V. L.P. -CONTINUOUS -LONG ORIGINAL CONDITION, ARE PART OF THE CONTRACT. THIS COVERS BOTH CONTR. -CONTRACTOR -LOW INTERIOR AND EXTERIOR WORK. CTR. -CENTER LAV. -LAVATO 19. CONTRACTOR TO PROVIDE ALL BARRICADES, SCAFFOLDING, AND OTHER -COLD WATER LOC. -LOCAT C.W. MEANS OF PROTECTION AS MAY BE REQUIRED TO COMPLY WITH THE STATE -DIAMETER. PHASE LG. -LONG LAWS AND MUNICIPAL ORDINANCES TO ADEQUATELY SAFEGUARD PROPERTY DIA. -DIAMETER, DIAGRAM MAS. -MASON AND PERSONS. DBL. -DOUBLE MAX. -MAXIM 20. CHECK DRAWINGS, DIMENSIONS AND SITE CONDITIONS FOR -DRIVE-THRU MIN. -MINIMU DISCREPANCIES THAT IMPEDE CONSTRUCTION. REPORT SAME TO THE DWG. -DRAWING MTD. -MOUN OWNER AND THE ARCHITECT IN WRITING. FAILURE TO DO SO RELIEVES THE E.F. -EXHAUST FAN MTL. -METAL OWNER AND THE ARCHITECT OF ALL RESPONSIBILITIES AND COSTS INCURRED. -EACH N.I.C. EA. -NOT ELECT 21. CONTRACTOR TO PLAN AND PERFORM HIS WORK IN A MANNER THAT -ELECTRIC 0.C. -ON C ELEV. -ELEVATION WILL PERMIT SAFE PUBLIC TRAFFIC ON THE SITE. 0.D. -OUTSII EQ. -EQUAL 0.H. -OVER 22. OWNER SHALL NOT BE RESPONSIBLE FOR THE PROTECTION AND/OR EQUIP. -EQUIPMENT 0/0 -OUT SAFETY OF THE CONTRACTOR'S WORK, WORKERS, SUBCONTRACTORS, -EACH WAY F.W. -PHASE Ø MATERIALS AND/OR EQUIPMENT. EXT. -EXTERIOR -PLATE 23. G.C. TO BE RESPONSIBLE FOR COORDINATION WITH CITY OF ATLANTA. F.C.O. -FLOOR CLEAN OUT

F.D.

FIN.FL.

F.O.M.

-FLOOR DRAIN

-FINISH FLOOR

-FIRE EXTINGUISHER

-FACE OF MASONRY

- 24. SPRINKLER WORK MUST BE DONE BY LICENSED SPRINKLER CONTRACTOR.
- 25. PROVIDE KNOX BOX ON BUILDING IF THERE ISN'T AN EXISTING ONE.

C

LITTLE ALLEY STEAK RESTAURANT

3500 LENOX ROAD NE SUITE 100 ATLANTA, GA 30326

1D	GENERAL BUILDING NOTES
GLASS COMPACTED EARTH	1. OCCUPANCY TYPE: A-2 (RESTAURANT) 4. OCCUPANCY LOAD: FIRE SPRINKLERED: YES MAIN LEVEL: OPEN SEATING BENCH 141 FT. / 1.5 = 58
BRICK GRANULAR	2. TENANT AREA :PATIO AREA:SEATING FIXED332. TENANT AREA :4,359 S.F.SEATING LOOSE137 FT. / 15 = 9EXISTING PATIO:691 S.F.SUB TOTAL:107TOTAL PATIO S.F.5,050 S.F.ENCLOSED LOUNGE AREA:BAR SEATING34 FT. / 1.5 = 23 SEATING LOOSESUB TOTAL:SUB TOTAL:107
CONCRETE BATT Image: Concrete Image: Concrete BLOCK Rough WOOD	3. CODES IN EFFECT: INTERNATIONAL BUILDING CODE, 2012 EDITION (W/ GEORGIA AMENDMENTS) INTERNATIONAL PLUMBING CODE, 2012 EDITION (W/ GEORGIA AMENDMENTS) INTERNATIONAL MECHANICAL CODE, 2012 EDITION (W/ GEORGIA AMENDMENTS) INTERNATIONAL FIRE CODE, 2012 EDITION (W/ GEORGIA AMENDMENTS) INTERNATIONAL FIRE CODE, 2012 EDITION (W/ GEORGIA AMENDMENTS) NATIONAL ELECTRICAL CODE, 2014 EDITION
	INTERNATIONAL FUEL GAS CODE, 2012 EDITION (W/ GEORGIA AMENDMENTS) INTERNATIONAL ENERGY CONSERVATION CODE,
	2009 EDITION (W/ GA SUPPLEMENTS & AMENDMENTS) ACCESSIBILITY CODES: 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN LIFE SAFETY CODE, NFPA 101 2012 EDITION (W/ GEORGIA AMENDMENTS) (W/ GEORGIA AMENDMENTS) MAIN LEVEL: - INSTALL NEW RETAINING WALL AND CANOPIES. - INSTALL NEW ENCLOSED LOUNGE, - INSTALL NEW LIGHTS THROUGHOUT, - INSTALL NEW SEATING AND DECOR FINISHES - MISC. FLOOR REPAIRS THROUGHOUT.
BREVIATIONS	VICINITY MAP
F.O.SFACE OF STUD F.R.P.P.TPRESSURE TREATED PARTITIONF.R.PFIRE RATED PANELING F.S.P.TPARTITION P.V.CPOLYVINYL CHLORIDE R.D.R.TFOOT F.G.R.DROOF DRAIN R.D.P.V.C.GAL-GAUGE GALVANIZED G.CGENERAL CONTRACTOR G.C.RECPTRECUPTACLE REQ'D.G.CGENERAL CONTRACTOR G.C.R.W.LRAIN WATER LEADER SQ.SQ.G.WGREASY WASTE GYP.SVS, S.S.STAINLESS STEEL STL.STELG.WGREASY WASTE GYP.STRUCSTRUCTURAL SURFACE MOUNTED S.W.SURF.MTD.H.DHORIZONTAL HT.SURF.MTD.SURFACE MOUNTED S.W.SURF.ATD.H.WHORIZONTAL HORIZ.TXG-TONGUE AND GROOVE T.O.S.TOP OF SLAB TYP.I.DINTERIOR DESIGN INSUL.TYPTYPICAL VERT.VERT.I.DINTERIOR DESIGN UR.VR.VERTVERTICAL VERT.L.L.VLONG LEG VERTICAL VERT.VERTVERTICAL VERT.VERT.LAVLOW POINT LAV.VESTVESTIBULE VC.VENT WITH ROOF W.C.MASMASONRY MAS.W.CWATER PROOF W.M.W.H.MINMINIMUM MD.WDWATER PROOF W.M.F.WELDED WIRE FABRIC W.M.MINNOT IN CONTRACT O.C.W.PWATER PROOF W.W.F.WELDED WIRE FABRIC W.W.M.O.OOUTSIDE DIMENSION O.HOUTSIDE DIMENSION O	North Apartment Homes North Rand Net Lonox Rd Ne Lonox Rd Ne Road Northest Road Northest Road Northest Road Northest Road Northest Road Northest Road Northest Road Northest

			C	01640
			DATE 08.01.17.	RELEASE RELEASED FOR CONSTRUCTION
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			PROPERTY ARCHITECTS NOT BE US AND/OR M WRITTEN CO	WINGS ARE THE OF ARIE KOHN S, P.C. AND SHALL ED, REPRODUCED, ODIFIED WITHOUT DNSENT FROM ARIE CHITECTS, P.C.
)RA\ heet#	WING INDEX SHEET TITLE	REVISIONS 1 2 3	PROJECT FOR: FIKRET KOVAC	3871 TRICKUM ROAD NE MARIETTA, GA 30066 (404) 456-2329
T—1	COVER SHEET			387 40.
A-1.0 A-2.0	SLAB PLAN PATIO FLOOR PLAN		I d	
A-2.1 A-2.2	LOUNGE AREA PLAN REFLECTED CEILING PLAN			
A-3.0	EXTERIOR ELEVATIONS			U
A-4.0 A-5.0	VESTIBULE SECTIONS AND DETAILS CANOPY SECTIONS AND DETAILS		Λ	ر 175
A-6.0	LOUNGE SECTIONS AND DETAILS			TS ^. 30(3755
CIVIL				 21) 「第一次の日内N」 74 WOODSTOCK ROAD, ROSWELL, GA. 30075 TEL. (770) 642-9030 FAX. (770)642-3755 EMAIL: info@akohnarch.com
C01.0 C01.1	COVER SHEET GENERAL NOTES			(回HN JRCHIT三C SSTOCK ROAD, ROSWELL, G 770) 642-9030 FAX. (770)642 EMAIL: info@akohnarch.com
C02.0 C02.1	TOPOGRAPHIC SURVEY (BY OTHERS) DEMOLITION PLAN			口口 ROS FAX.
C03.0	OVERALL SITE PLAN			30 1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1
C03.1 C03.2	SITE PLAN SITE PLAN			COHN A DSTOCK ROAE (770) 642-9030 EMAIL: info@3
C03.3	STAKING PLAN			KOHN odstock (770) 642 EMAIL: i
C04.0 C04.1	UTILITY PLAN UTILITY DETAILS I			
C04.2 C05.1	PIPE PROFILES I GRADING AND DRAINING PLAN			
C05.2	GRADING AND DRAINING PLAN		N	 74 WC TE
C06.1 C06.2	ESPC DETAILS I ESPC DETAILS II			
MECHAN				and the second
M-1	MECHANICAL NOTES, LEGEND, PLAN AND SCHEDULES			114110
PLUMBI	NG		a la	400
P-1	PLUMBING NOTES, LEGEND AND SCHEDULES		EE	PED ARCH
P-2	PLUMBING PLANS, RISERS AND DETAILS			ARIE & KOH
ELECTRI E-1	ICAL ELECTRICAL SPECIFICATIONS, NOTES AND LEGEND		The second	S + nto
E-2	ELECTRICAL POWER PLAN			
E-3 E-4	ELECTRICAL LIGHTING PLAN ENERGY COMPLIANCE CERTIFICATE		40 17	
			SUITE 100 PROJECT: 01640 DATE: 08/01/17 FXISTING RESTAIIRAN	

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DRA

SHEET#

T—1

A-1.0

A-2.0

A-2.1

A-2.2

A-3.0

A-4.0

A-5.0

A-6.0

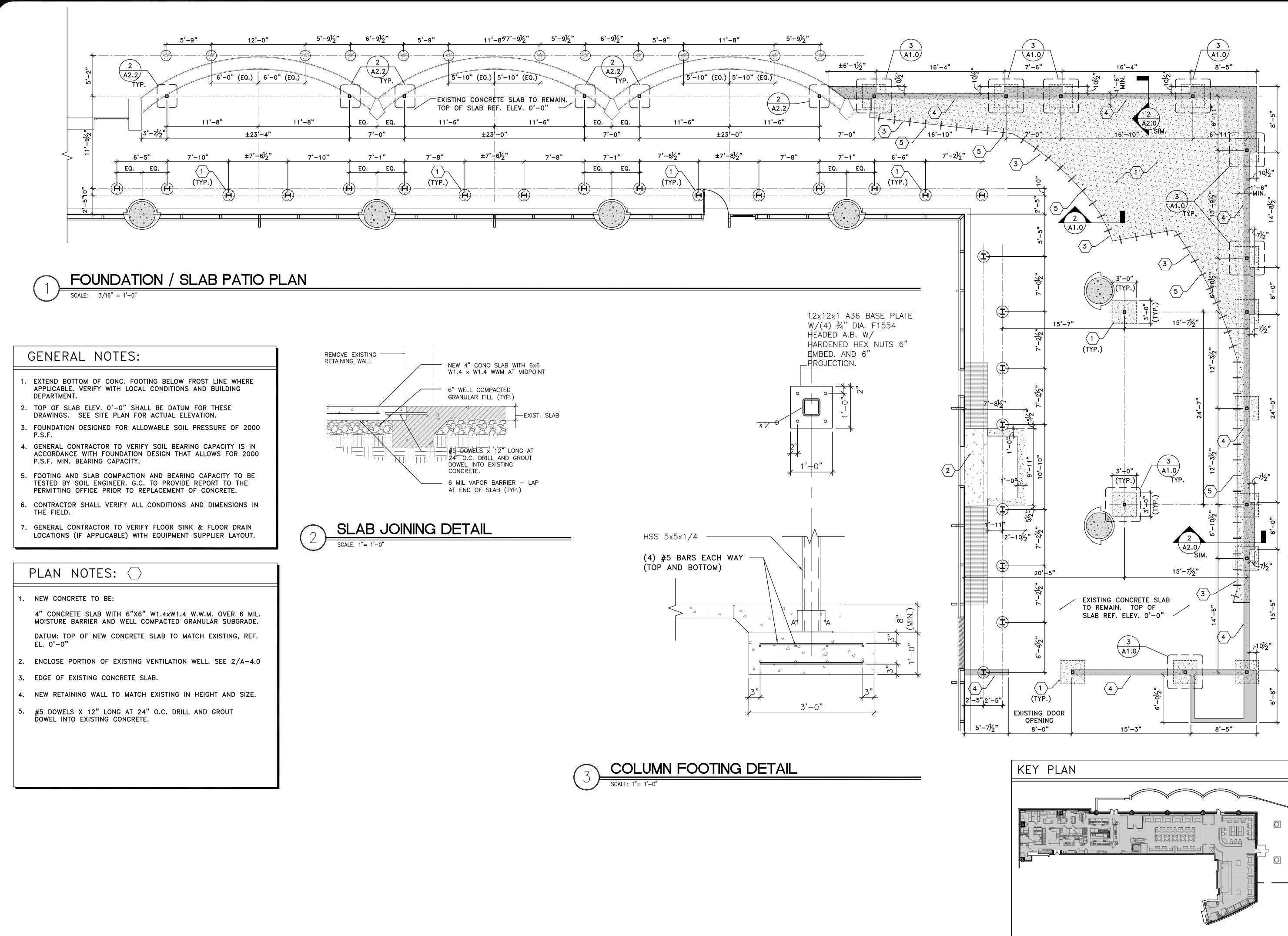
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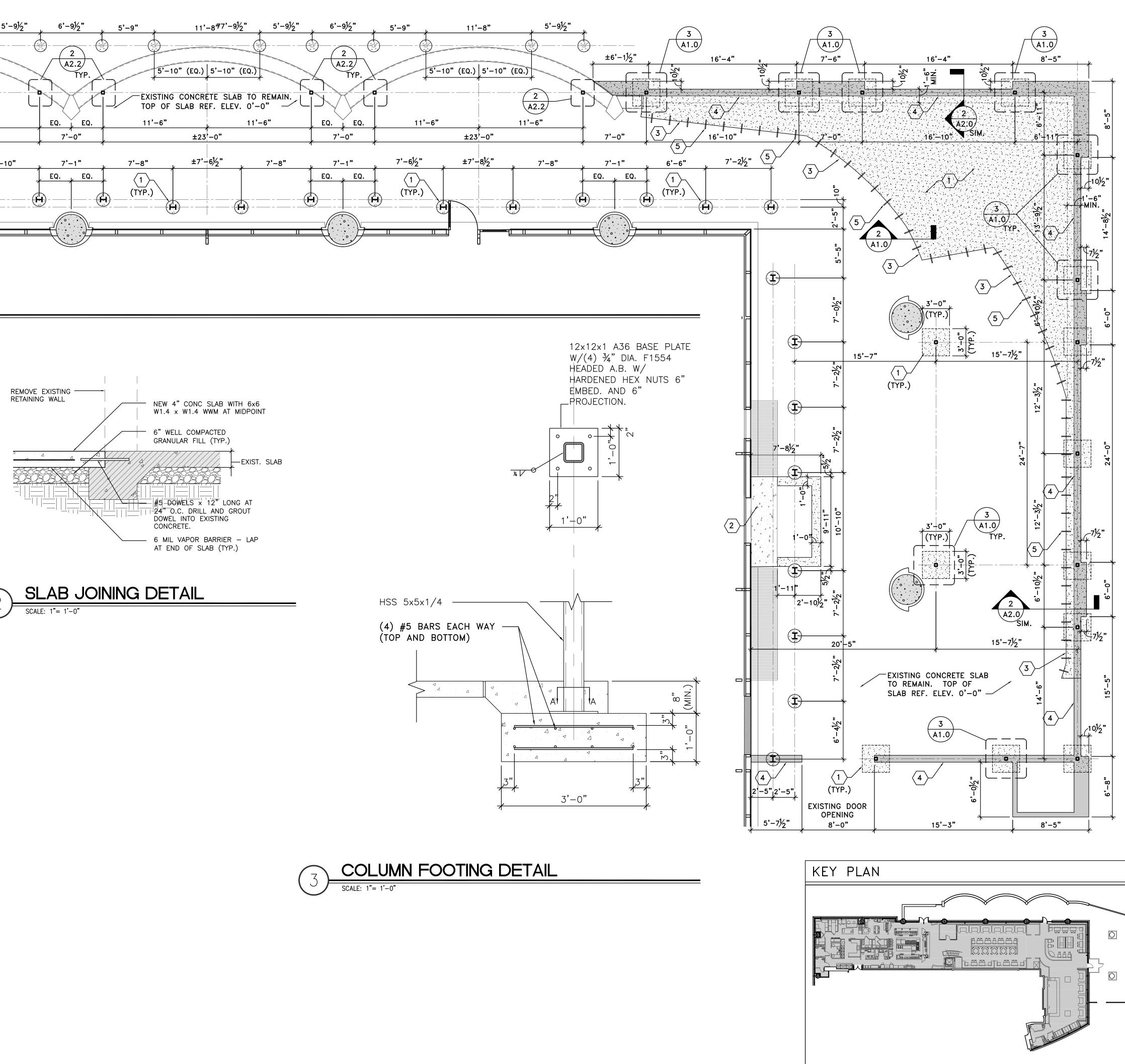
C03.3

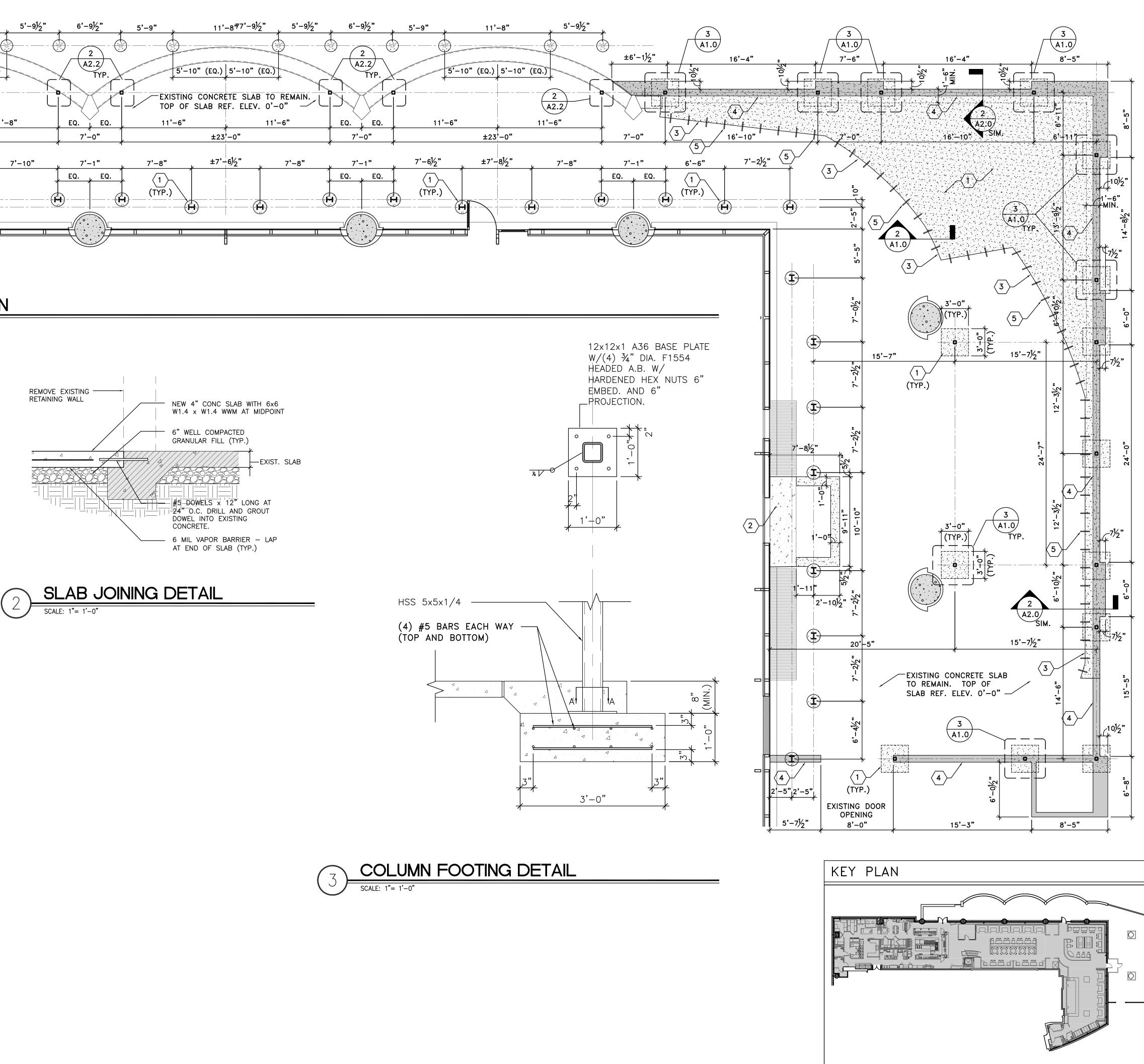
C04.0

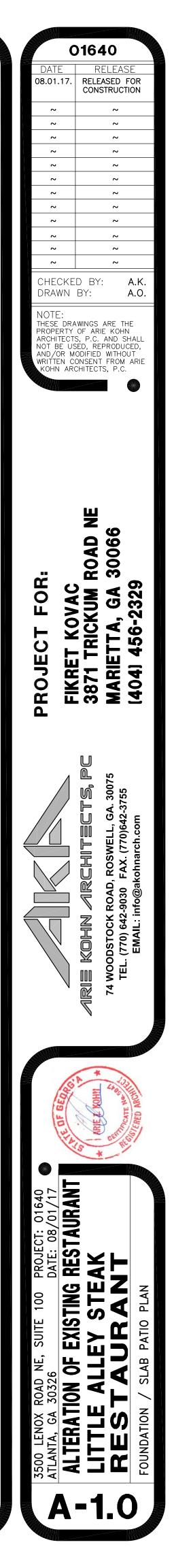
C04.2 C05.1

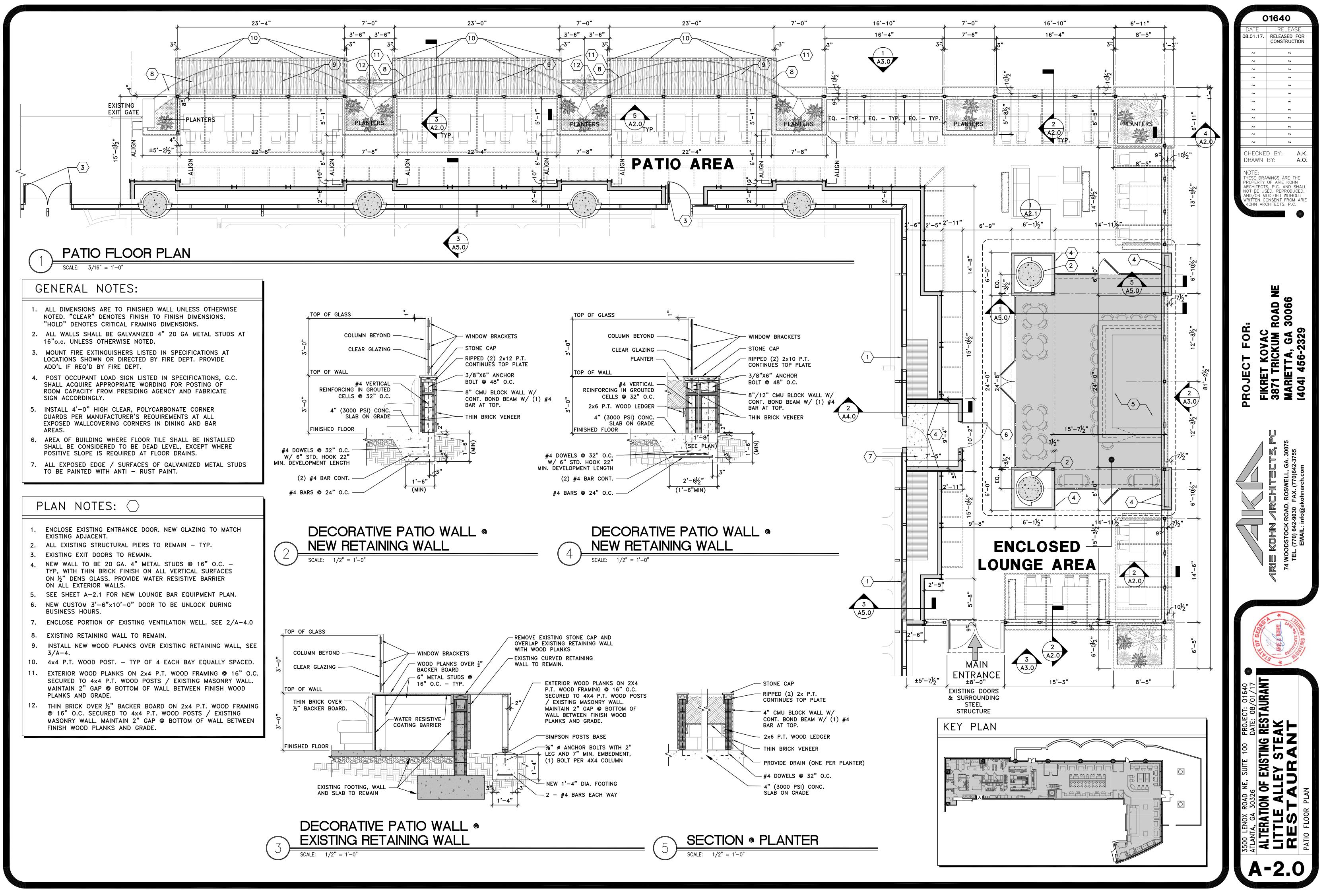
C06.1 C06.2

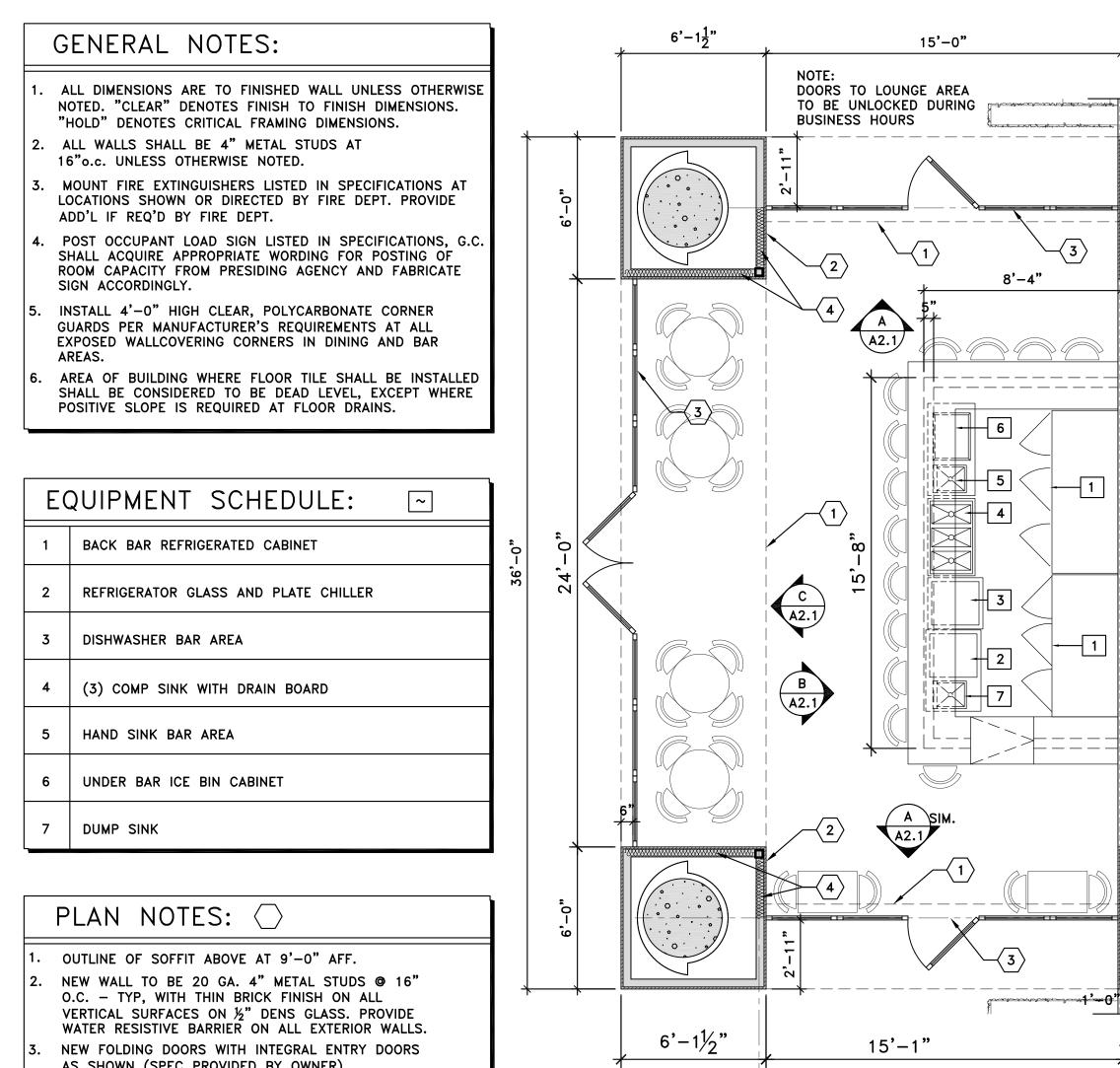




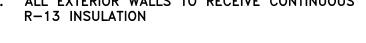


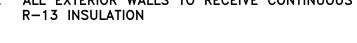




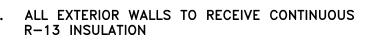


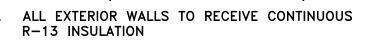
- AS SHOWN (SPEC PROVIDED BY OWNER). ALL EXTERIOR WALLS TO RECEIVE CONTINUOUS
- R-13 INSULATION

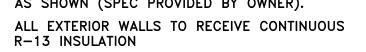


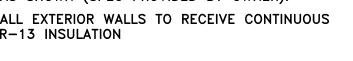


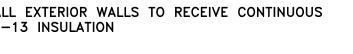
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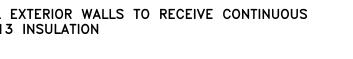


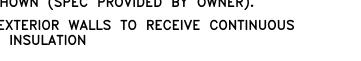


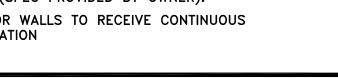












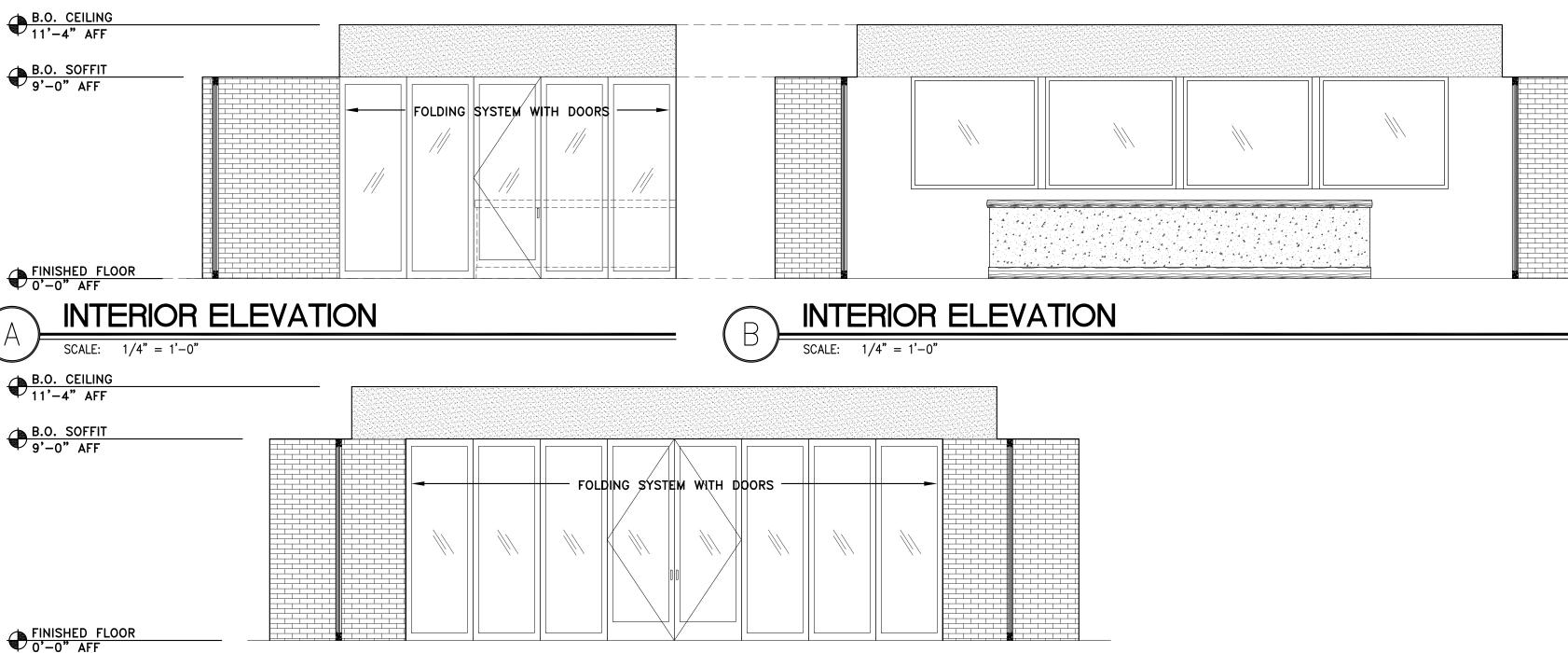
INTERIOR ELEVATION

SCALE: 1/4" = 1'-0"



<u>_31</u>"

5**'**-10"



15'-7<mark>½</mark>"

ROOM FINISH SCHEDULE

ROOM	FLOOR	BASE	WALLS	CLG.
BAR / LOUNGE AREA	CONCRETE STAINED & SEALED	WOOD/TILE	GLASS THIN BRICK	GWB SMOOTH FII
STOREF	RONT NOT	E		
	NISH, INCLUDING FL	ASHING AND		
COVERS AS <u>TYPE VISION:</u>	REQUIRED. CKNESS: 1" INS TE: 1/4" 1/2"	SULATED GLAS	-E #2 SURF SILICONE SE	

GENERAL NOTES

- GENERAL CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY PROBLEMS WITH CEILING HEIGHTS OR LIGHT FIXTURES BEFORE FINISH CEILINGS ARE INSTALLED. IF THE CONTRACTOR FAILS TO DO SO, HE SHALL BE RESPONSIBLE FOR TAKING DOWN THE CEILING AND LIGHT FIXTURES AND REINSTALLING THEM IN A CONFIGURATION ACCEPTABLE TO THE ARCHITECT, AT NO ADDITIONAL COST.
- COORDINATE WORK WITH OTHER TRADES HAVING WORK IN THE CEILING INCLUDING, BUT NOT LIMITED TO, TELEPHONE, SECURITY, CABLE COMPANIES, ETC., WHEREVER THEIR RESPECTIVE WORK IS CONTIGUOUS.
- ALL MATERIALS SHALL HAVE CLASS I FLAME SPREAD RATING AND BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN SPECIFICATIONS AND CODES.
- SEE ENGINEERS DRAWINGS FOR LIGHTING AND MECHANICAL LAYOUTS. CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES NOTED BETWEEN ARCHITECTURAL AND ENGINEERING DRAWINGS, OR BETWEEN ENGINEERING DISCIPLINES.
- 5 COORDINATE LOCATION OF ALL LIGHT FIXTURES WITH OWNER PRIOR TO CONSTRUCTION
- 6 ALL LIGHT FIXTURES TO BE PROVIDED BY OWNER.

CEILIN	G FIXTURE LEGEND
A	PENDANT LIGHT
☆c	SURFACE MOUNTED LIGHT FIXTURES
EEL	EXIT SIGN / EMERGENCY LIGHT

K	EYED	ΝΟΤ	ES:			\langle	\rangle
1.	GYPSUM RECOMMI		• = . = •	-	PAINT	PER	OWNERS

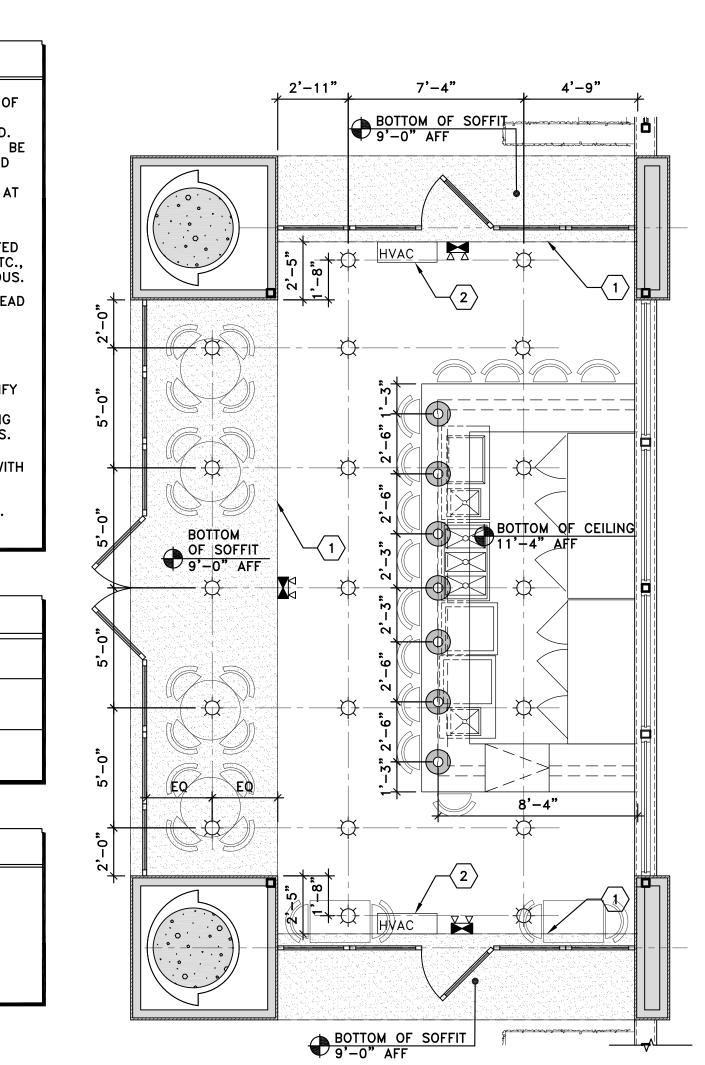
2. HVAC UNIT, SEE MECHANICAL SHEETS.



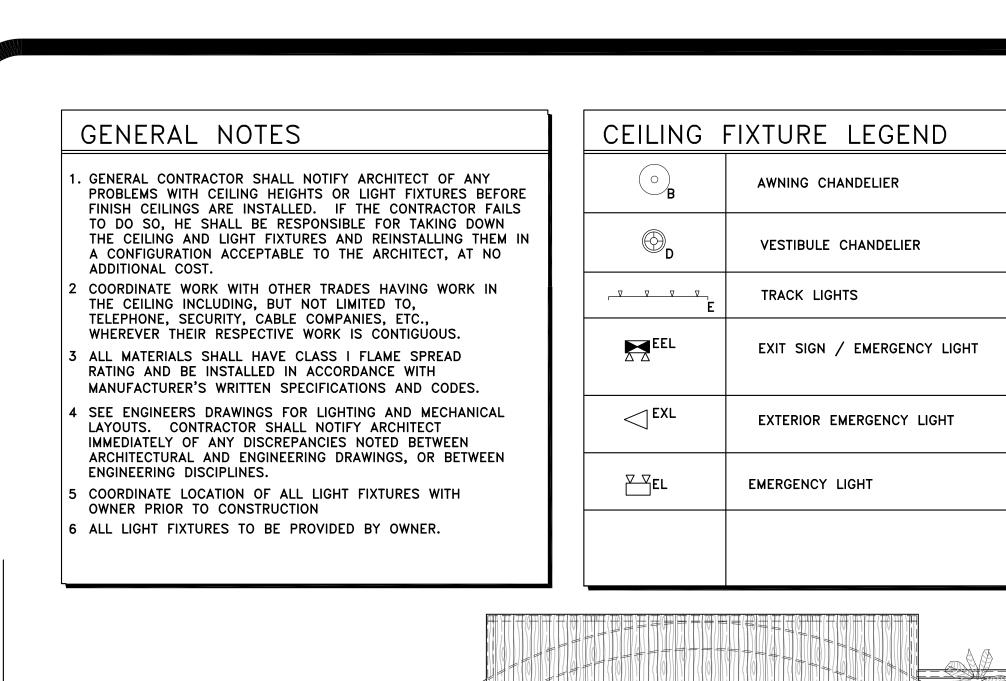
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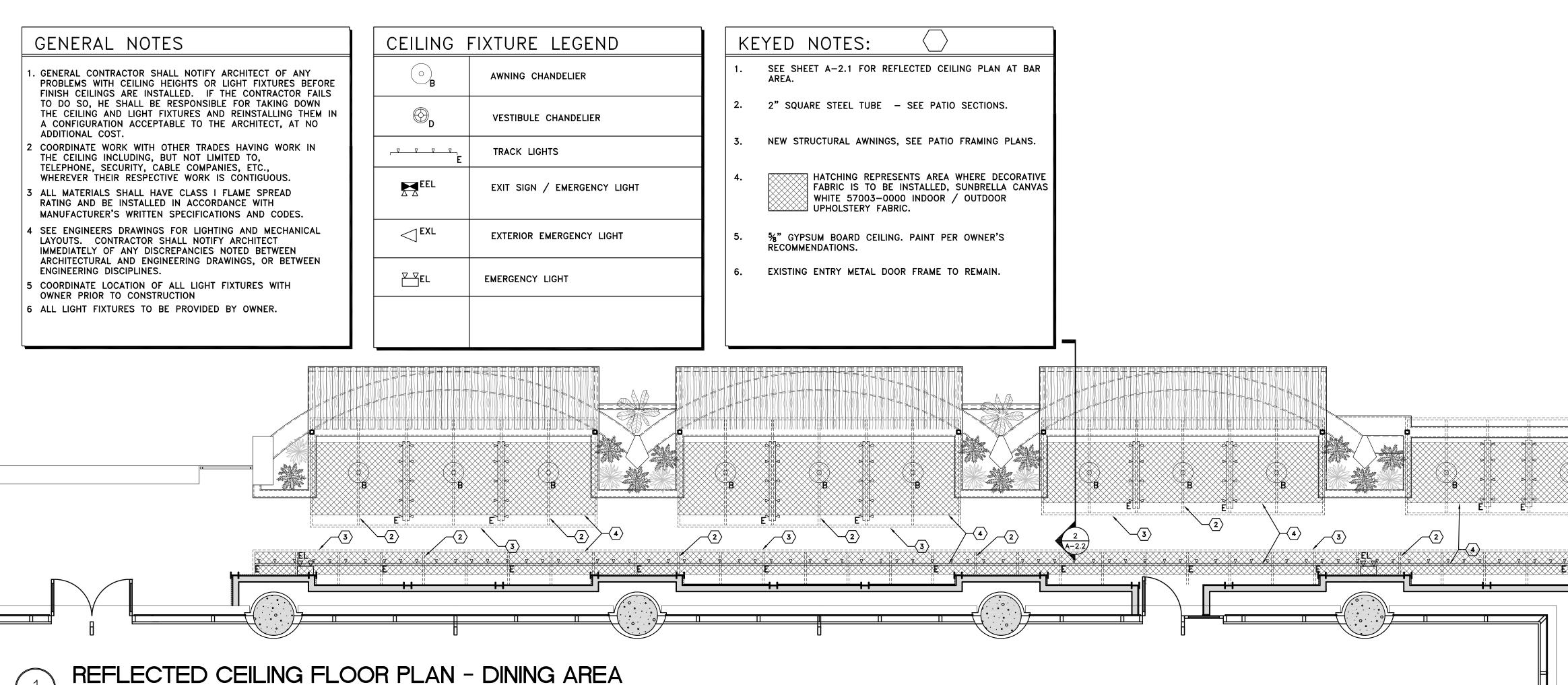
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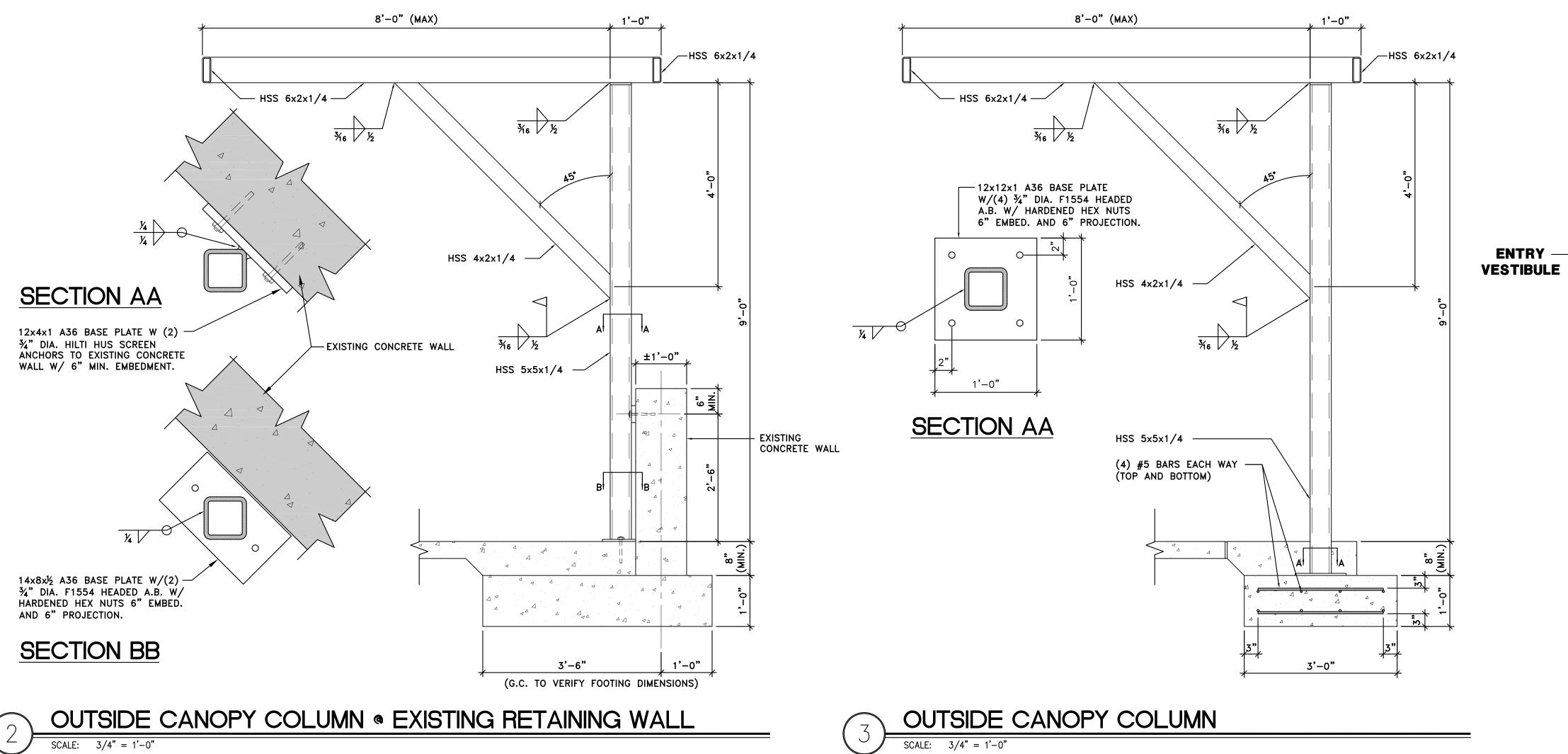


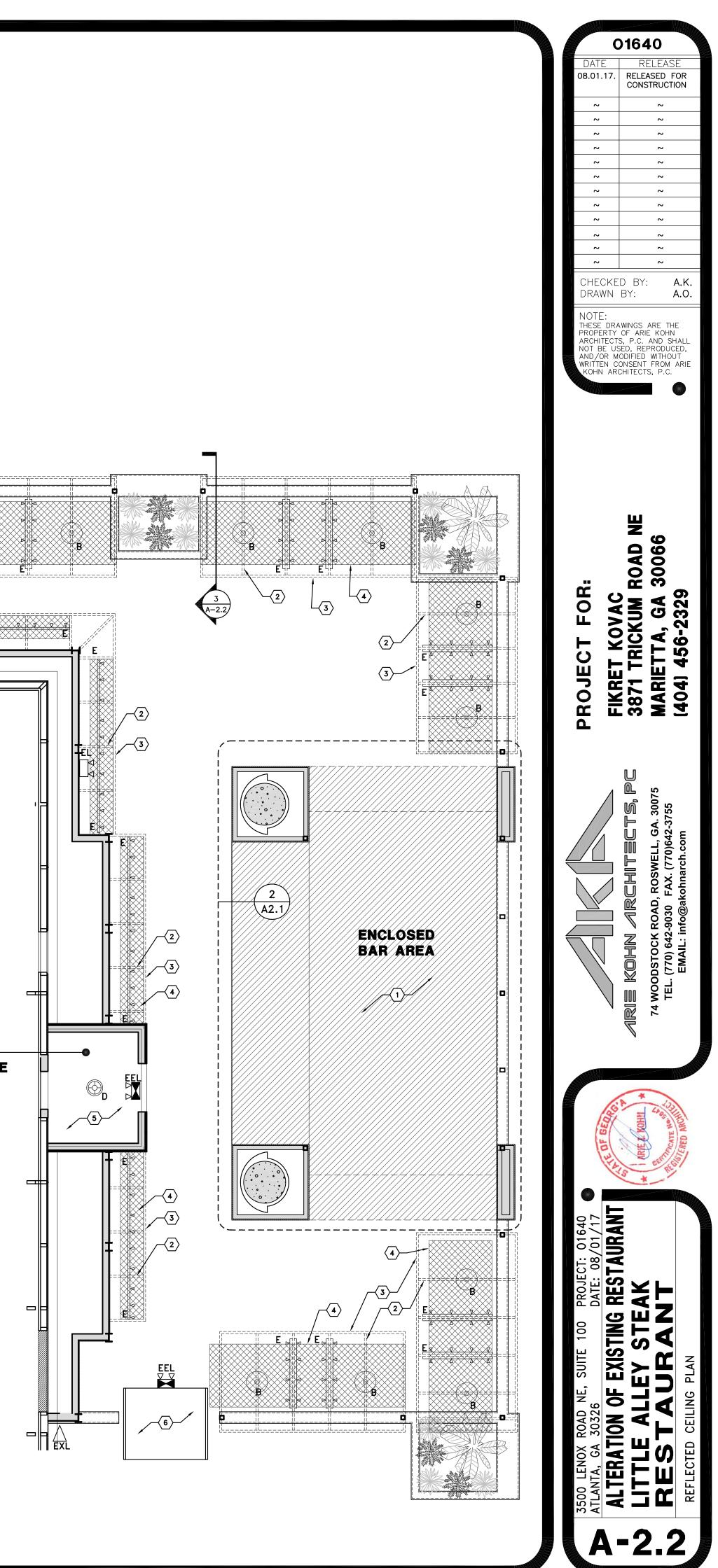


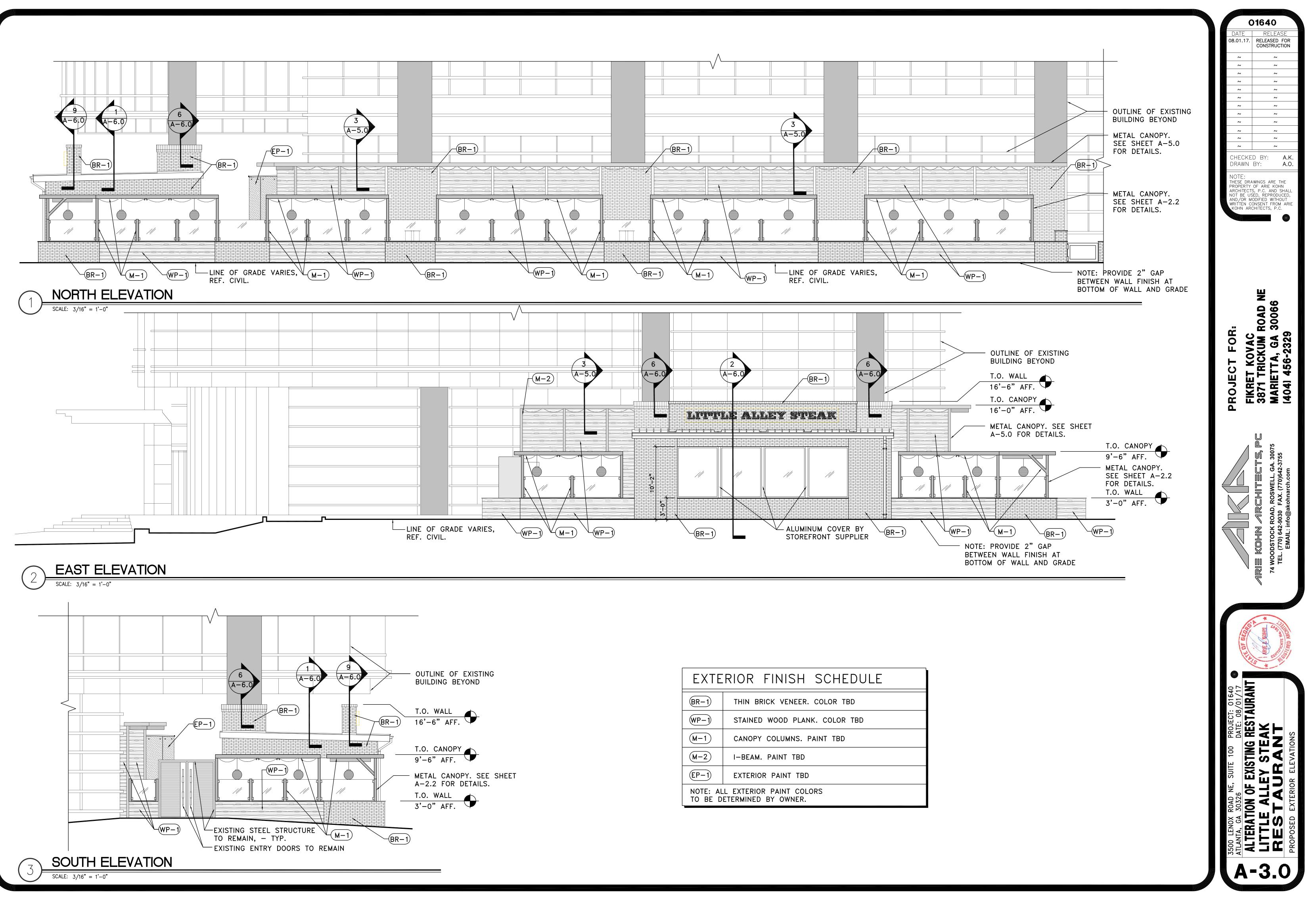


SCALE: 3/16" = 1'-0"

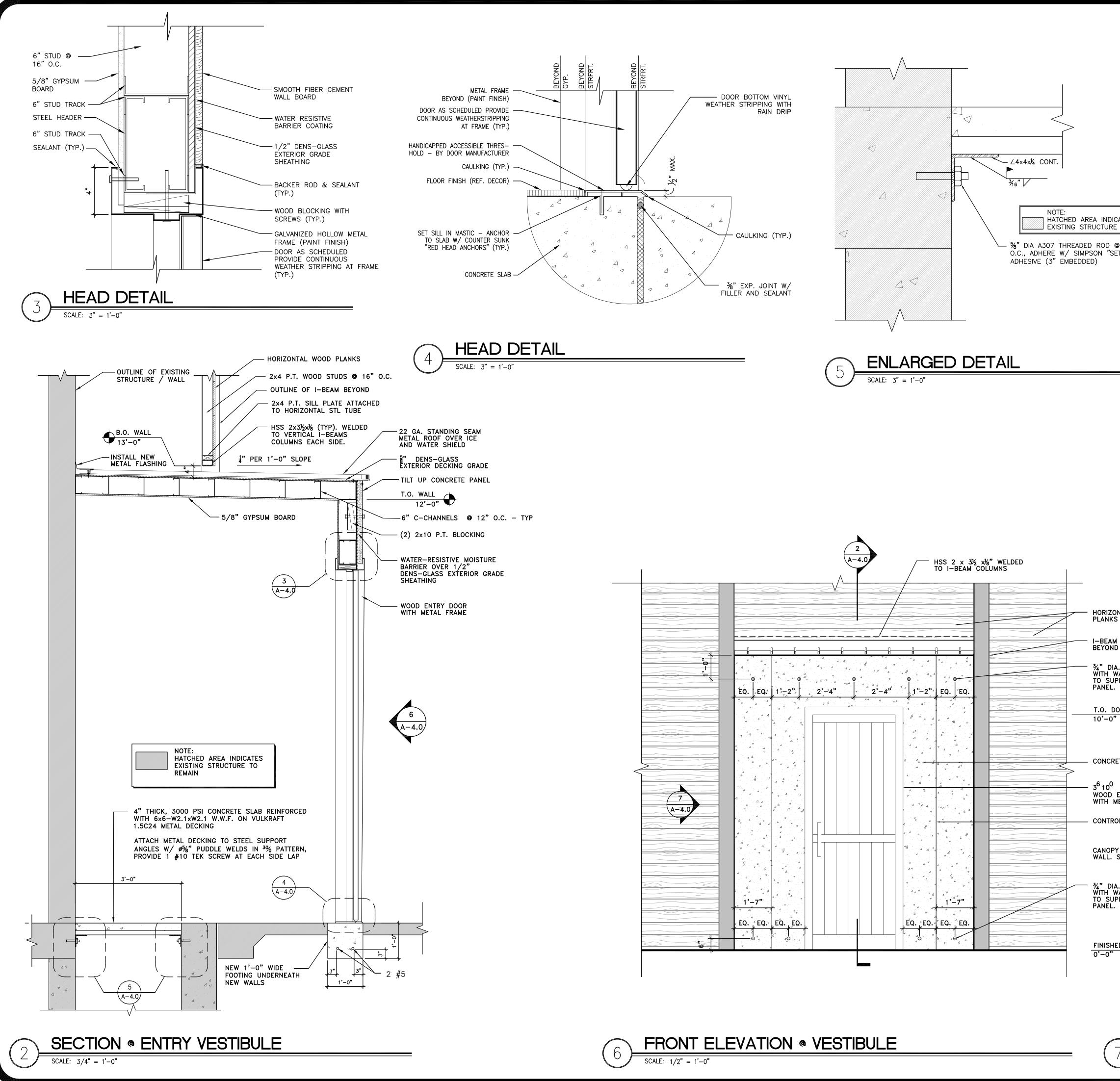




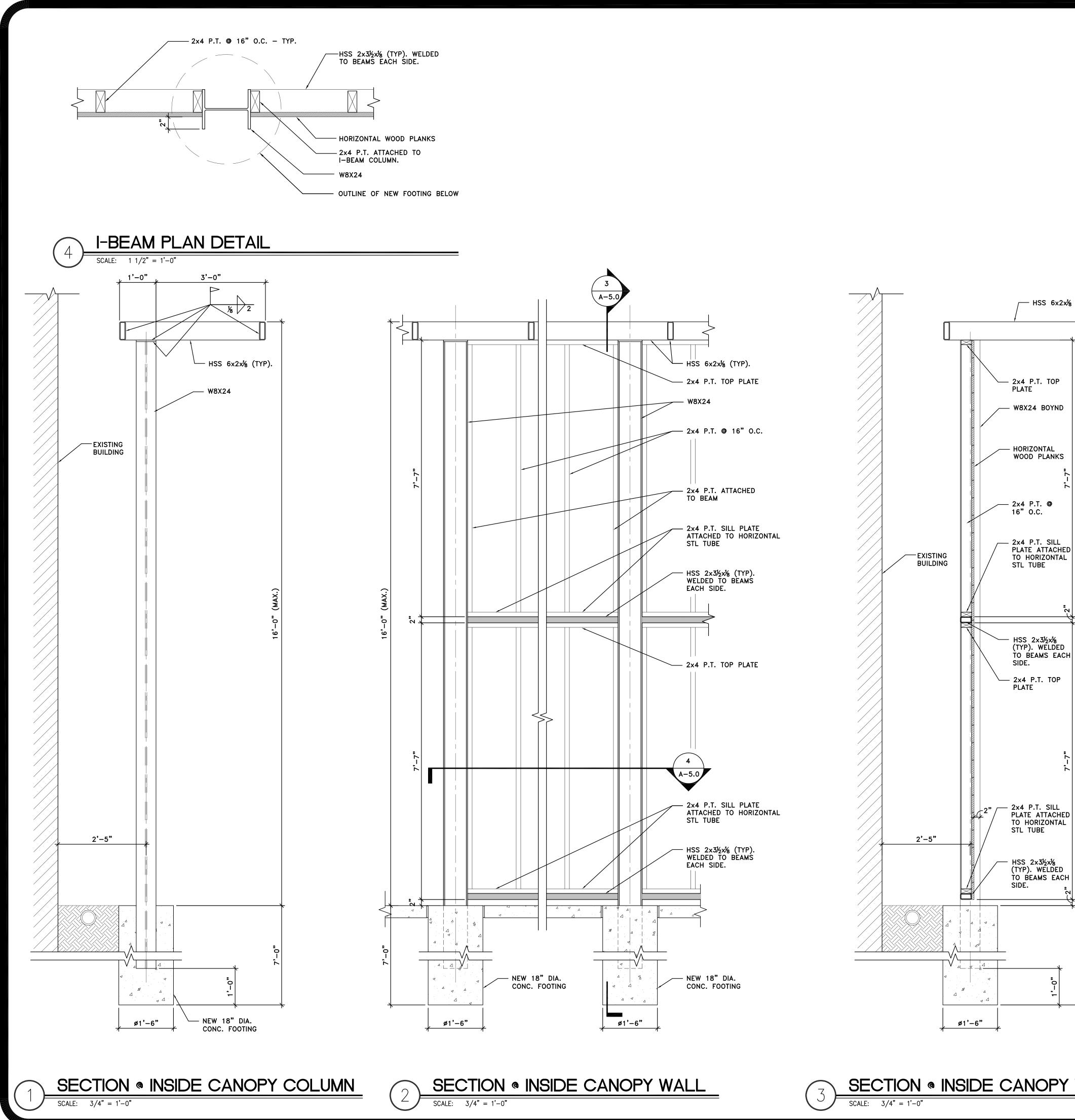




(BR-1)	THIN BRICK VENEER. COLOR TBD
WP-1)	STAINED WOOD PLANK. COLOR TBD
(M-1)	CANOPY COLUMNS. PAINT TBD
M-2	I-BEAM. PAINT TBD
(EP-1)	EXTERIOR PAINT TBD
	L EXTERIOR PAINT COLORS ETERMINED BY OWNER.

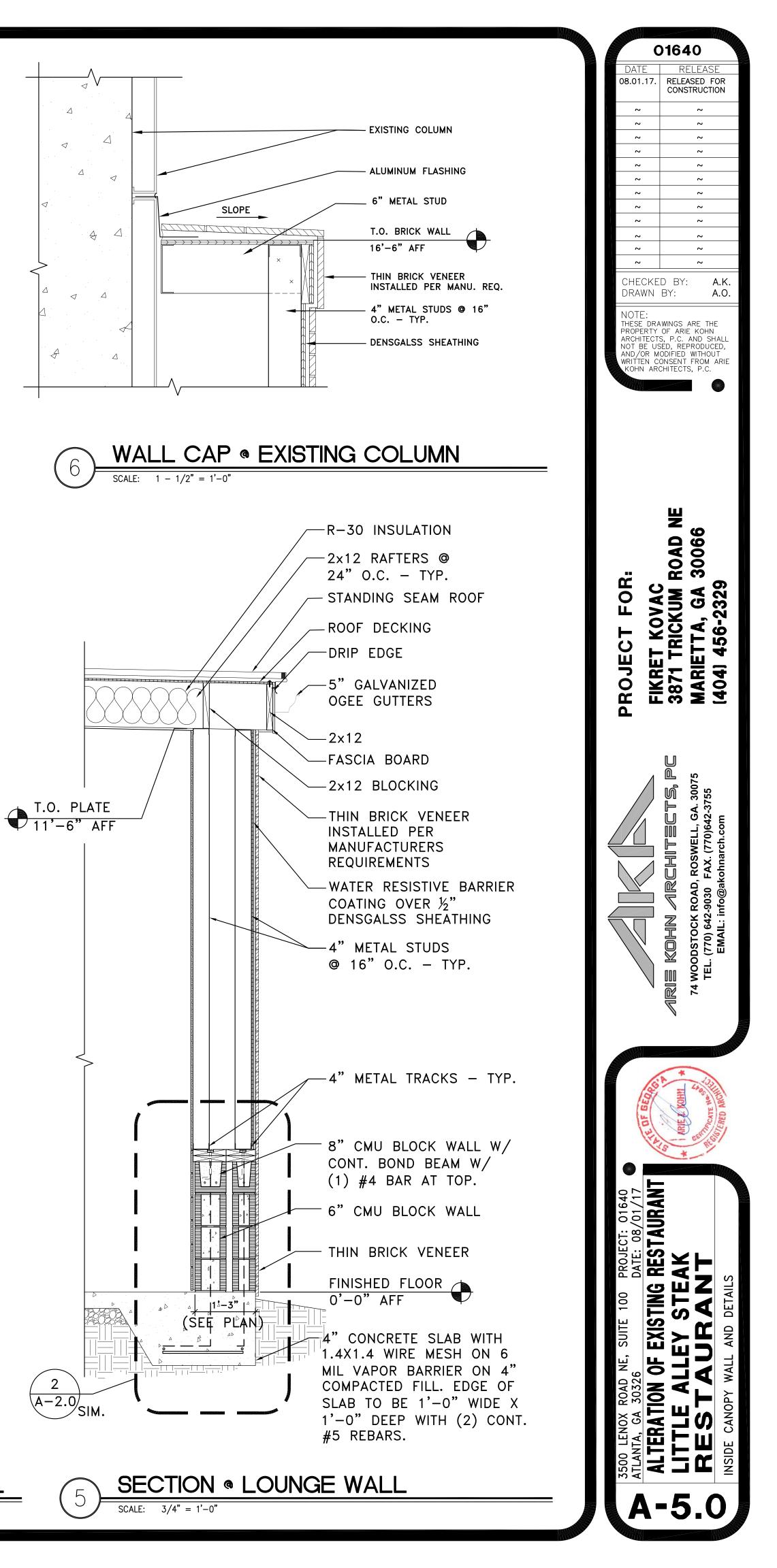


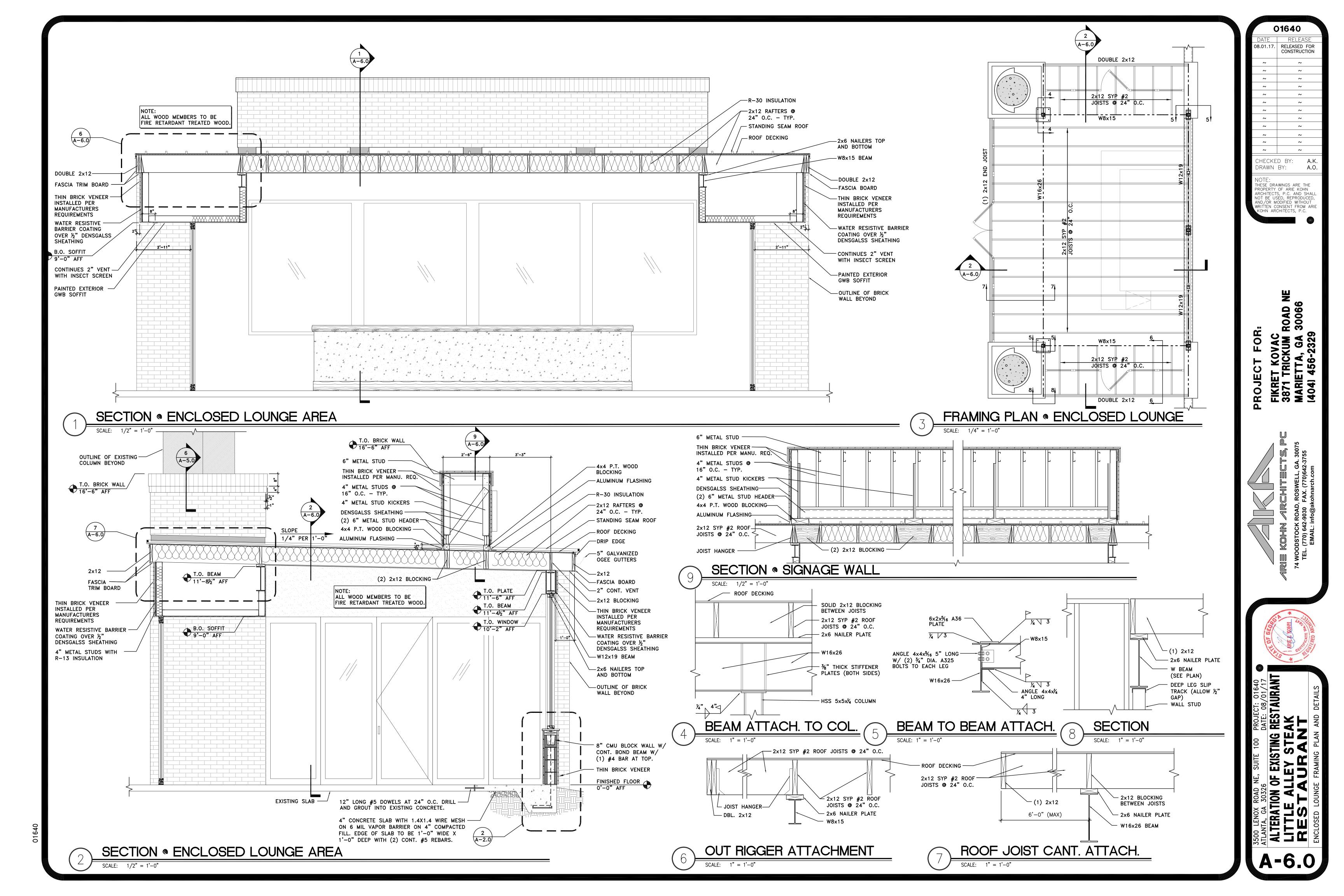
NDICATES URE TO REMAIN DD @ 24" "SET"		DATE RELEASE 08.01.17. RELEASED FOR CONSTRUCTION ~ ~ NOTE: THESE DRAWINGS ARE THE PROPERTY OF ARIE KOHN ARCHITECTS, P.C. AND SHALL NOT BE USED, REPRODUCED, AND/OR MODIFIED WITHOUT WRITTEN CONSENT FROM ARIE KOHN ARCHITECTS, P.C. KOHN ARCHITEC
		PROJECT FOR: FIKRET KOVAC 3871 TRICKUM ROAD NE MARIETTA, GA 30066 (404) 456-2329
RIZONTAL WOOD NKS BEYOND EAM COLUMN OND DIA. THREADED ROD – H WASHER AND BOLTS SUPPORT CONCRETE IEL. – TYP.	EXISTING NEW BUILDING CONSTRUCTION	ARIE KOHN ARCHITECTS, PC 74 WODSTOCK ROAD, ROSWELL, GA. 30075 TEL. (770) 642-9030 FAX. (770)642-3755 EMAL: info@akohnarch.com
NCRETE PANELS OO OD ENTRY DOOR H METAL FRAME NTROL JOINTS	$\left(\begin{array}{c} & & & & & & & & & & & & & & & & & & &$	SUITE 100 PROJECT: 01640 DATE: 08/01/17 EXISTING RESTAURANT EXISTING RESTAURANT EXISTING RESTAURANT S' SECTIONS AND DETAILS
ISHED FLOOR •0" SIDE SCALE: 1/2'	ELEVATION VESTIBULE	 BESCO LENOX ROAD NE, SUIT BATLANTA, GA 30326 ATLANTA, GA 30326 ATLANTA,



/── HSS 6x2x1⁄8 (TYP). – 2x4 P.T. TOP W8X24 BOYND HORIZONTAL WOOD PLANKS - 2x4 P.T. @ – 2x4 P.T. SILL PLATE ATTACHED TO HORIZONTAL (MAX.) HSS 2x3½x½ (TYP). WELDED TO BEAMS EACH — 2x4 P.T. TOP PLATE

SECTION @ INSIDE CANOPY WALL





DEVELOPER LITTLE ALLEY STEAK MR. FIKRET KOVAC 387I TRICKUM ROAD MARRIETTA, GEORGIA 30066 PHONE: (404) 456-2329 CIVIL ENGINEER INGENIUM ENTERPRISES, INC. MR. ERIK HOUSTON 221 ROSWELL STREET, SUITE 100 ALPHARETTA, GA 30009 PHONE: (770) 437-8850 PROJECT CONTACTS

ARCHITECT ARIE KOHN ARCHITECTS, PC MR. AJDIN OMANOVIC 74 WOODSTOCK RD. ROSWELL, GA 30075 PHONE: (770) 642-9030 LAND SURVEYOR D&S LAND SURVEYING 160 NORTH STREET CANTON, GA 30114 PHONE: (770) 720-4443

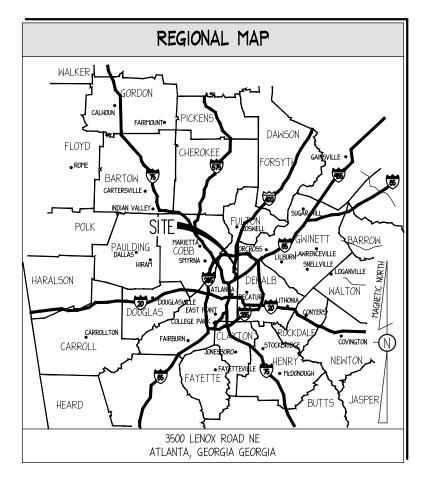
PATIO / TERRACE PLANS FOR:

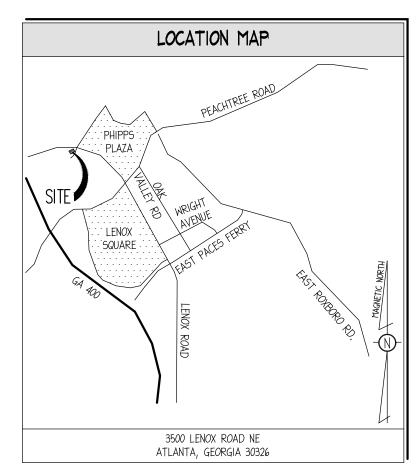
LITTLE ALLEY STEAK 3500 LENOX ROAD NE LAND LOT 45 DISTRICT 17, FULTON, ATLANTA, GEORGIA



PREPARED FOR:

LITTLE ALLEY STEAK 3871 TRICKUM ROAD MARRIETTA, GEORGIA 30066 PHONE: (404) 456-2329





SITE INFORMATION

JURISDICTION: CITY OF ATLANTA, GEORGIA FULTON COUNTY

ZONING: ZONING

SITE AREA CALCULATIONS:SITE:±.06 AC.PERVIOUS AREA:±.02 AC.IMPERVIOUS AREA:±.04 AC.

DISTURBED AREA: ±,06 AC.

NO PORTION OF THIS PROPERTY IS LOCATED IN A SPECIAL FLOOD AREA AS PER F.I.R.M. MAP NO. **13121C0251F**, DATED **09/18/2013**.

EXISTING INFORMATION: PROVIDED BY DES LAND SURVEYING, DATED 2/3/17 (SEE SHEET CO2.0). CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES (LOCATIONS AND ELEVATIONS) PRIOR TO STARTING CONSTRUCTION AND ALERT ENGINEER TO ANY DISCREPANCIES IMMEDIATELY.

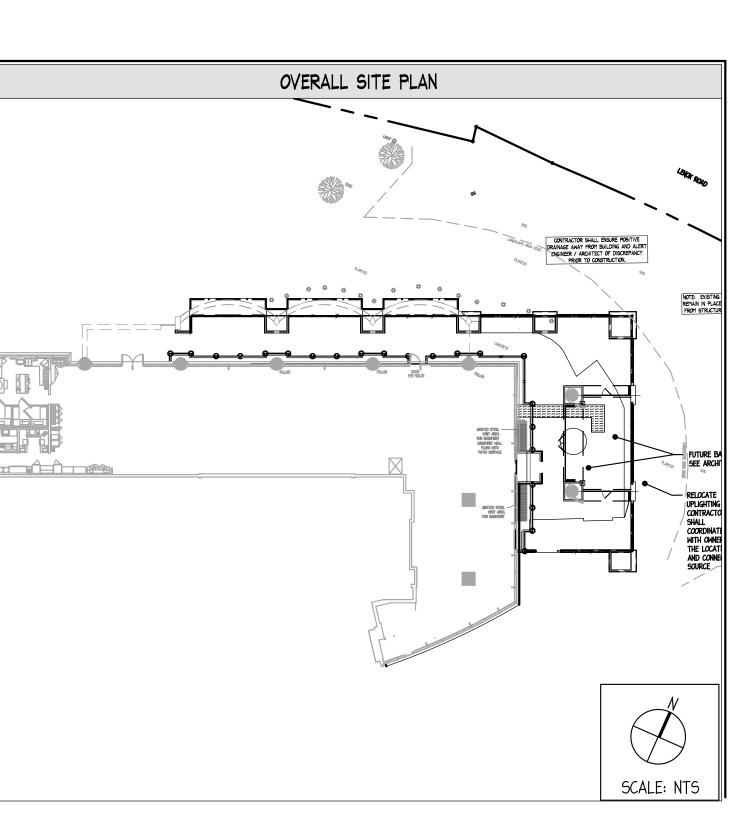
CONTRACTOR SHALL PROTECT ALL ITEMS OUTSIDE LIMITS OF CONSTRUCTION UNLESS OTHERWISE NOTED IN THE CONSTRUCTION PLANS OR SPECIFICATIONS.

THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL LOCAL, STATE, AND FEDERAL CERTIFICATION AND LICENSING REQUIREMENTS FOR CONSTRUCTION, INCLUDING BUT NOT LIMITED TO: LAND DISTURBANCE PERMITS, BUILDING PERMITS, DEMOLITION PERMITS, NPDES PERMITS, DEWATERING PERMITS, ETC.

> 24-HOUR CONTACT: LITTLE ALLEY STEAK (678) 555-0880

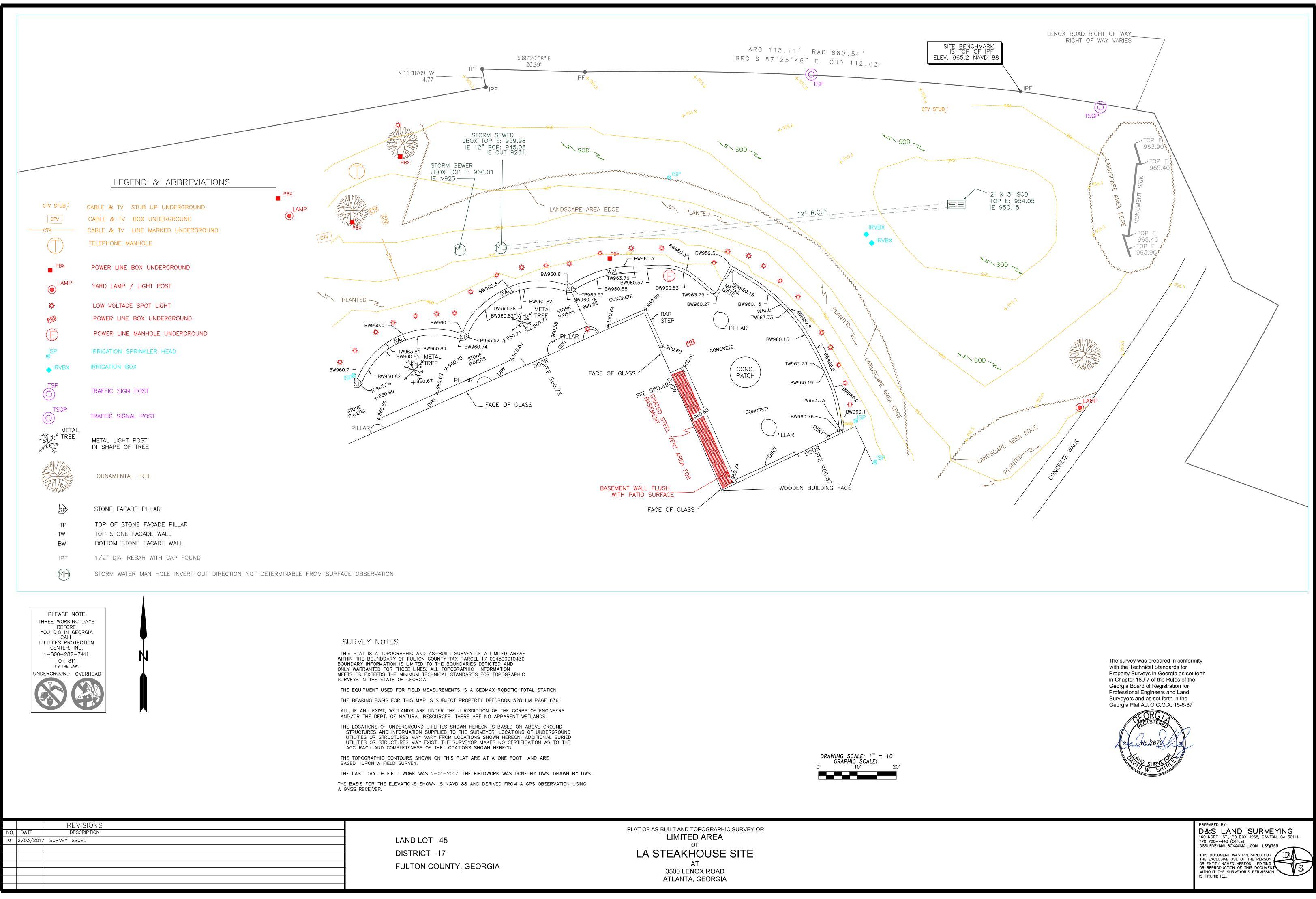
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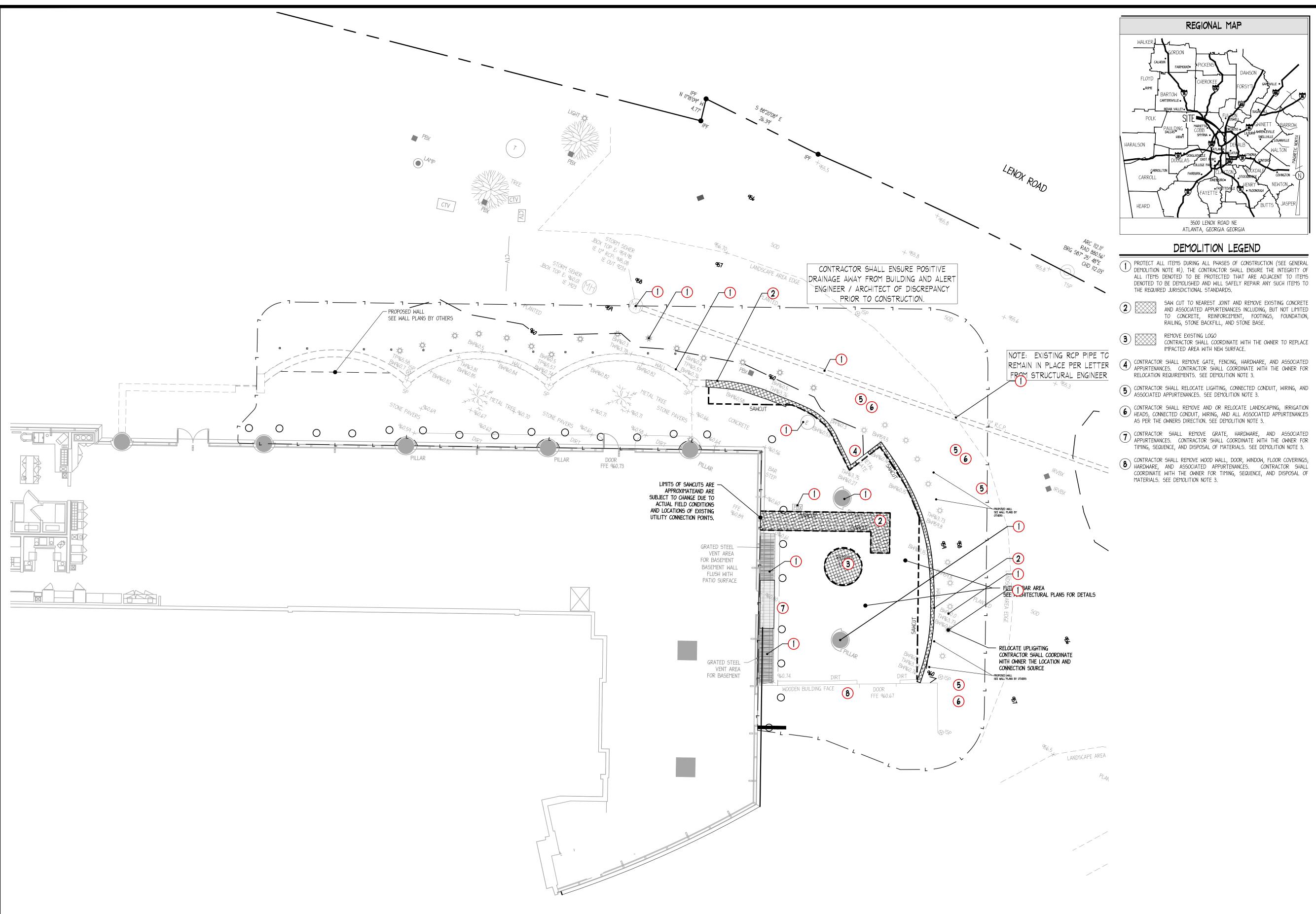
Know what's **below. Call** before you dig

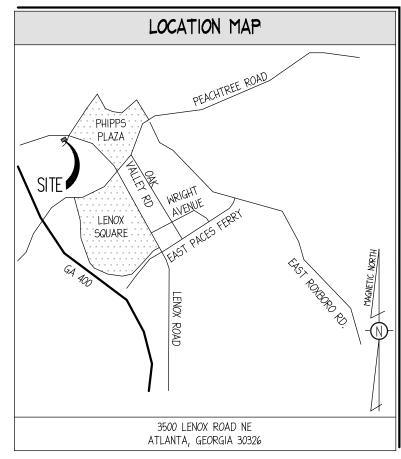


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CO2.1DEMOLITION PLAN••<	C01.1	GENERAL NOTES	
C03.0OVERALL SITE PLAN•••	C02.0	TOPGRAPHIC SURVEY (BY OTHERS)	
C03.1 SITE PLAN • <	C02.1	DEMOLITION PLAN	
CO3.2SITE PLAN•••••••CO3.3STAKING PLAN••• <td></td> <td></td> <td></td>			
C03.3STAKING PLAN•• <td>C03.1</td> <td></td> <td></td>	C03.1		
C04.0UTILITY PLAN•••••••••C04.1UTILITY DETAILS I••			
CO4.1UTILITY DETAILS I•••			
C04.2PIPE PROFILES I••••IIIC05.1GRADING AND DRAINAGE PLAN•••••IIIC05.2GRADING AND DRAINAGE PLAN•••••IIIIC06.0ESPC PLAN••••••IIIIC06.1ESPC DETAILS I•••••IIII			
C05.1GRADING AND DRAINAGE PLAN•••••C05.2GRADING AND DRAINAGE PLAN•••••C06.0ESPC PLAN•••••C06.1ESPC DETAILS I•••••			
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GENERAL DEMOLITION NOTES

I. ALL ITEMS TO BE PROTECTED SHALL BE PROTECTED THROUGH ALL THE PHASES OF CONSTRUCTION UNTIL FINAL ACCEPTANCE BY CITY OF ATLANTA/FULTON COUNTY IS RECEIVED.

CONTRACTOR TO COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS WITH ALL DEMOLITION ACTIVITIES. IF ADDITIONAL REQUIREMENTS ARE REQUIRED FOR HAZARDOUS WASTE REMOVAL INCLUDING BUT NOT LIMITED TO ASBESTOS, SEPTIC FIELDS, LEAD, PCB, TCP, OR OTHER WASTE OR CONTAMINANT, IT IS THE CONTRACTORS RESPONSIBILITY TO COMPLY WITH MANDATES PRIOR TO COMMENCEMENT OF CONSTRUCTION.

CONTRACTORS SHALL COORDINATE WITH ALL UTILITY COMPANIES CONCERNING THE ABANDONMENT, RELOCATION AND/OR DEMOLITION OF UTILITIES PRIOR TO CONSTRUCTION. NO WORK IS TO BE PERFORMED ON LIVE LINES UNLESS APPROVED IN WRITING BY THE UTILITY IN ALL CASES. A REPRESENTATIVE FROM THE UTILITY SHALL BE PRESENT FOR INITIAL ABANDONMENT AND/OR LIVE CUTS, CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR UTILITIES AND SHALL PROTECT THEM AT ALL TIMES.

4. CONTRACTOR IS RESPONSIBLE FOR PROCUREMENT OF ALL NECESSARY PERMITS. 5. DEMOLITION SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, HAULING, PERMITTING, FEES, AND COORDINATION WITH PUBLIC AND/OR PRIVATE UTILITY REQUIRED TO REMOVE AND PROPERLY DISPOSE OF ANY ITEM NECESSARY TO PERFORM THE REQUIRED DEMOLITION AS INDICATED ON THE PLANS. 6. RELOCATION SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, HAULING, PERMITTING, FEES, AND COORDINATION WITH PUBLIC AND/OR PRIVATE UTILITY REQUIRED TO REMOVE, RELOCATE, AND INSTALL NEW ITEMS AS INDICATED ON THE

PLANS ABANDONMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, PERMITTING, FEES, AND COORDINATION WITH PUBLIC AND/OR PRIVATE UTILITY REQUIRED TO ADEQUATELY ABANDON ITEMS AS INDICATED ON THE PLANS. 8. THE CONTRACTOR SHALL COORDINATE ALL TREE AND LANDSCAPE REMOVAL WITH THE LANDSCAPE PLANS. ANY DISCREPANCY BETWEEN THIS DEMOLITION PLAN AND THE LANDSCAPE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER IMMEDIATELY.

9. THE CONTRACTOR IS FULLY AND COMPLETELY RESPONSIBLE FOR LOCATION, VERIFICATION, PROTECTION, STORAGE, MAINTENANCE, DEMOLITION, REMOVAL RELOCATION OR ALTERATION OF ALL EXISTING SITE UTILITIES, SITE IMPROVEMENTS STRUCTURES, OR CONSTRUCTION ELEMENTS AS REQUIRED TO COMPLETE THE WORK THAT ARE SHOWN ON THE PLANS AND OR THAT ARE OBSERVABLE IN THE FIELD, WHETHER CONSPICUOUSLY VISIBLE OR NOT. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING IMPROVEMENTS, UTILITIES, AND SITE CONDITIONS PRIOR TO BIDDING AND CONSTRUCTION. 10. THIS DEMOLITION PLAN IS FOR GRAPHICAL REFERENCE ONLY. ITEMS NOT

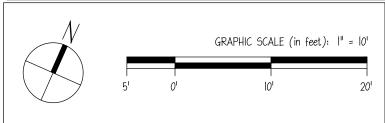
DEPICTED ON THESE PLAN MAY BE REQUIRED TO BE PROTECTED, REMOVED, OR RELOCATED. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING THE LOCATIONS OF ALL EXISTING STRUCTURES, UTILITIES, AND APPURTENANCES WITHIN THE LIMITS OF CONSTRUCTION. DEMOLITION INCLUDES BUT IS NOT LIMITED TO THE ITEMS SHOWN ON THIS PLAN. 11. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR ANY EXISTING UNDERGROUND OR OVERHEAD UTILITIES. 12. SAWCUT DIMENSIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD STAKE AND CONSULT ENGINEER TO VERIFY PRIOR TO CONSTRUCTION.

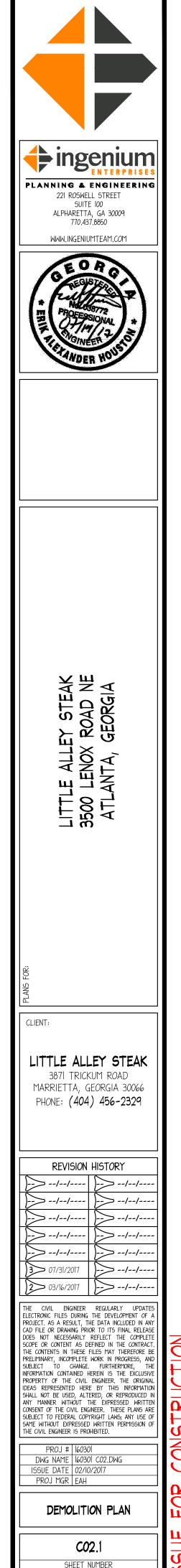
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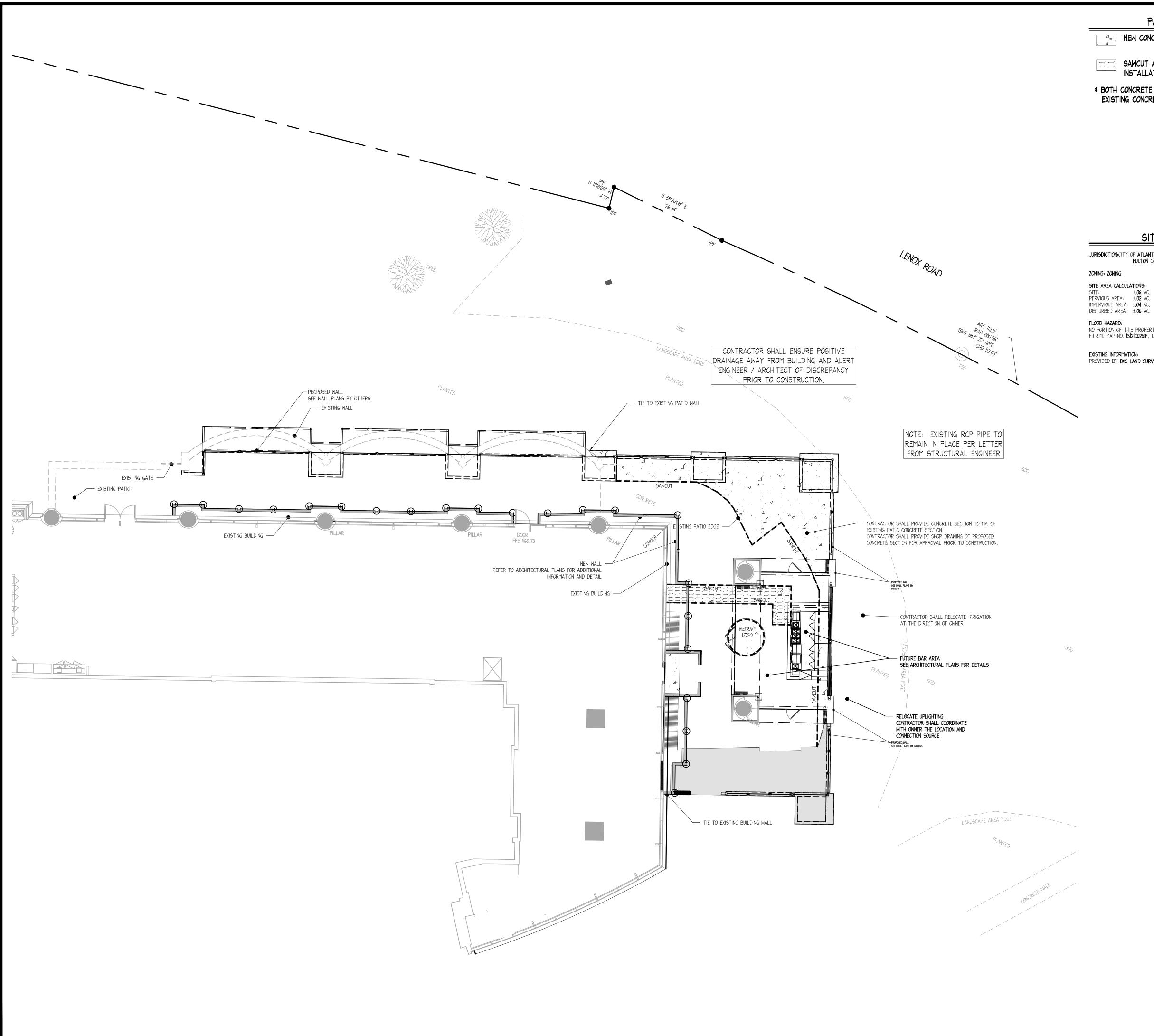
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> 24-HOUR CONTACT: LITTLE ALLEY STEAK (678) 555-0880







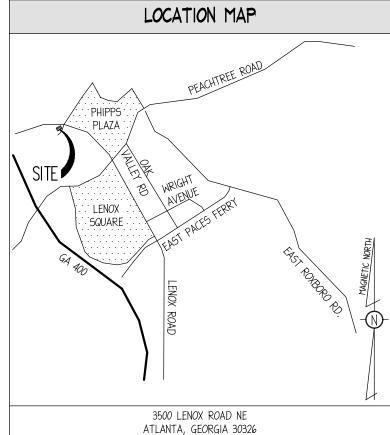


PAVING LEGEND

NEW CONCRETE

SAWCUT AND REPLACE CONCRETE FOR UTILITY INSTALLATION

* BOTH CONCRETE SECTION SHALL MATCH EXISTING CONCRETE SECTIONS



SITE INFORMATION

JURISDICTION: CITY OF ATLANTA, GEORGIA FULTON COUNTY

SITE AREA CALCULATIONS:

±**.06** AC. PERVIOUS AREA: ±.02 AC. IMPERVIOUS AREA: ±.04 AC.

NO PORTION OF THIS PROPERTY IS LOCATED IN A SPECIAL FLOOD AREA AS PER F.I.R.M. MAP NO. **13121C0251F**, DATED **09/18/2013**.

EXISTING INFORMATION:

PROVIDED BY DES LAND SURVEYING, DATED 2/3/17 (SEE SHEET CO2.0).

I. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING IMPROVEMENTS AND TREES AND OTHER DEBRIS WITHIN THE LIMITS OF THE WORK FROM THE SITE. ON SITE BURIAL OF TREES AND OTHER DEBRIS WILL NOT BE ALLOWED. THERE ARE NO KNOWN INERT BURY PITS ON THE SITE AND NONE WILL BE ALLOWED DURING CONSTRUCTION OF THE PROJECT. 2. ALL WORK SHALL COMPLY WITH ATLANTA/FULTON COUNTY, STATE OF GEORGIA,

SITE NOTES

AND FEDERAL CODES AND ALL NECESSARY LICENSES AND PERMITS SHALL BE OBTAINED BY THE CONTRACTOR AT HIS EXPENSE UNLESS PREVIOUSLY OBTAINED BY THE OWNER. 3. ALL WORK SHALL BE PERFORMED IN A FINISHED AND WORKMANLIKE MANNER TO

THE ENTIRE SATISFACTION OF THE OWNER, AND IN ACCORDANCE WITH THE BEST RECOGNIZED TRADE PRACTICES. 4. ALL MATERIALS SHALL BE NEW UNLESS USED OR SALVAGED MATERIALS ARE

AUTHORIZED BY THE OWNER PRIOR TO USE. 5. ALL WORK PERFORMED ON CITY, COUNTY, AND/OR STATE OR FEDERAL RIGHT-OF-WAY SHALL BE IN STRICT CONFORMANCE WITH APPLICABLE STANDARDS AND SPECIFICATIONS OF THE APPROPRIATE GOVERNING AGENCIES.

6. BASE COURSE MATERIALS, EQUIPMENT, METHODS OF CONSTRUCTION AND WORKMANSHIP SHALL CONFORM TO "STATE OF GEORGIA" TRANSPORTATION STANDARD SPECIFICATIONS", CURRENT EDITION.

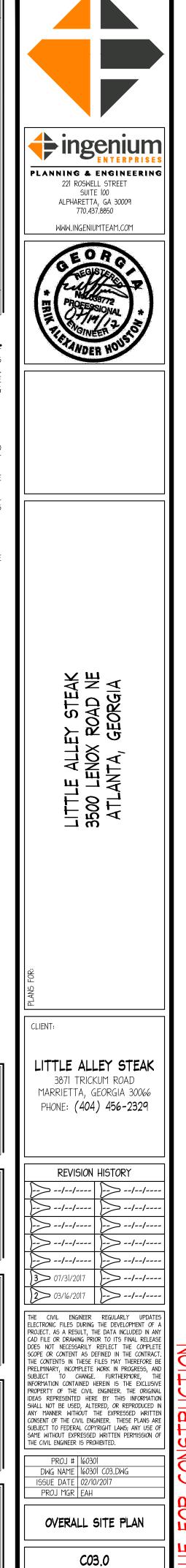
7. ALL BUILDING DIMENSIONS SHALL BE CHECKED AND COORDINATED WITH THE ARCHITECTURAL PLANS PRIOR TO COMMENCEMENT OF CONSTRUCTION. 8. PHOTOMETRICS DESIGNED BY OTHERS. POLE LOCATIONS ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY FINAL LOCATION OF POLES WITH PHOTOMETRIC PLAN AND OWNER PRIOR TO CONSTRUCTION. 9. SEE SHEET COLL FOR GENERAL NOTES.

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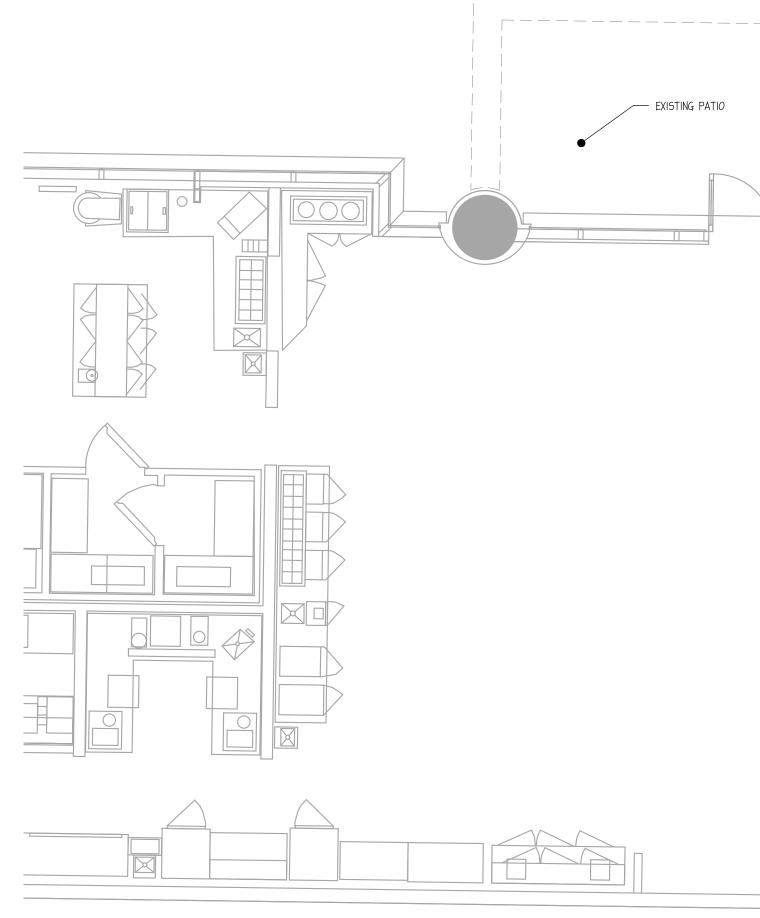
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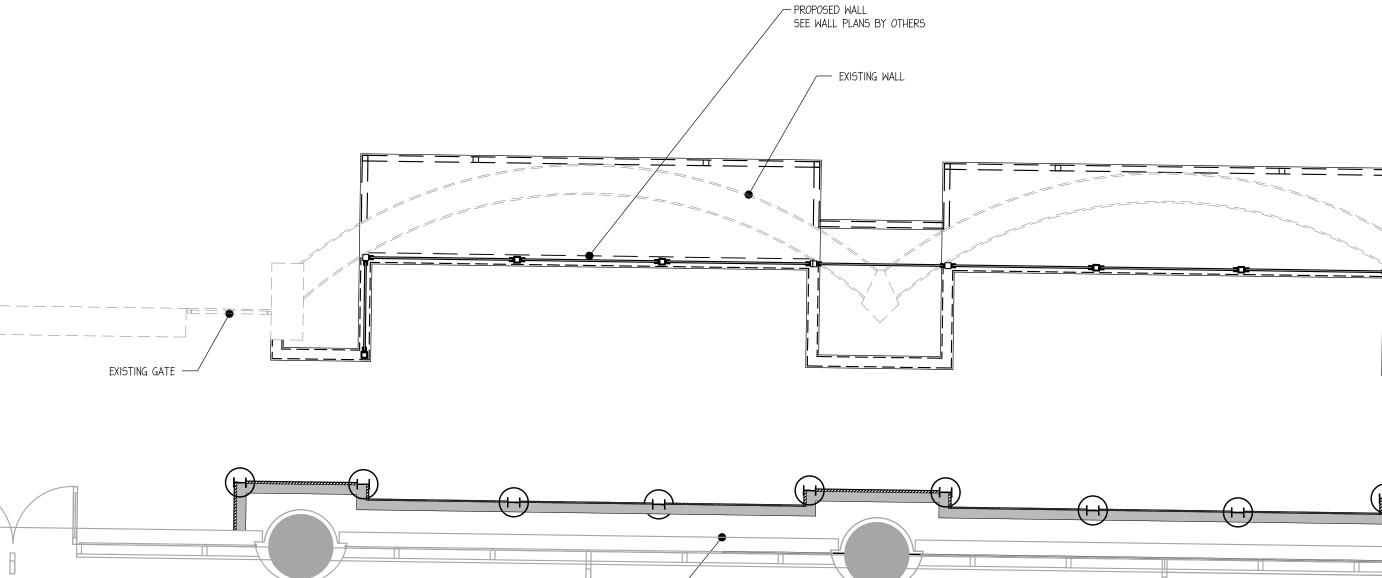
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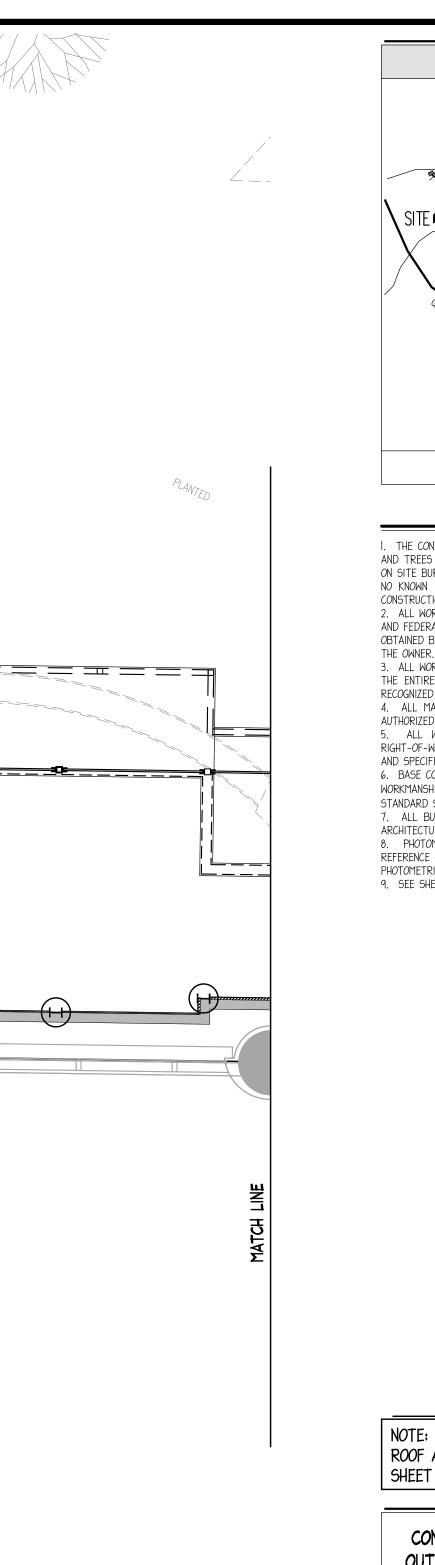
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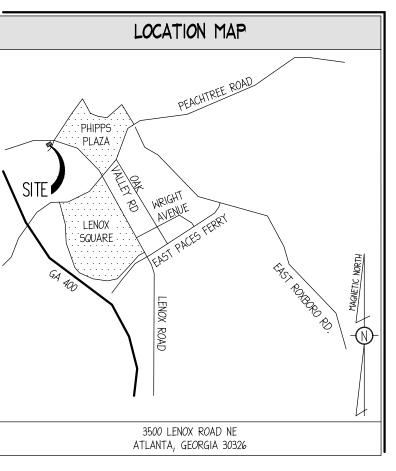




EXISTING BUILDING -

PILLAR





SITE NOTES

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PHOTOMETRIC PLAN AND OWNER PRIOR TO CONSTRUCTION. 9. SEE SHEET COI.I FOR GENERAL NOTES.

ROOF AND ROOF STRUCTURE NOT SHOWN ON THIS SHEET FOR CLARITY.

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😝 ingenium PLANNING & ENGINEERING 221 ROSWELL STREET SUITE 100 ALPHARETTA, GA 30009 770,437,8850 WWW.INGENIUMTEAM.COM EY STEAK ROAD NE GEORGIA ALLE TTLE 500 LE ATLAN л пр Э.П. Пр Э.П. Г. CLIENT: LITTLE ALLEY STEAK 3871 TRICKUM ROAD MARRIETTA, GEORGIA 30066 PHONE: (404) 456-2329 REVISION HISTORY |--> --/--/-----> --/--/---|--> --/--/--> --/--/--|--> --/--/--> --/--/--> --/--/----->--/--/--> --/--/---3> 07/31/2017 > --/--/---2 03/16/2017 THE CIVIL ENGINEER REGULARLY UPDATES ELECTRONIC FILES DURING THE DEVELOPMENT OF A PROJECT. AS A RESULT, THE DATA INCLUDED IN ANY CAD FILE OR DRAWING PRIOR TO ITS FINAL RELEASE DOES NOT NECESSARLY REFLECT THE CONTPLETE SCOPE OR CONTENT AS DEFINED IN THE CONTRACT. THE CONTENTS IN THESE FILES MAY THEREFORE BE PRELIMINARY, INCOMPLETE WORK IN PROGRESS, AND SUBJECT TO CHANGE. FURTHERMORE, THE INFORMATION CONTAINED HEREIN IS THE EXCLUSIVE PROPERTY OF THE CIVIL ENGINEER. THE ORIGINAL IDEAS REPRESENTED HERE BY THIS INFORMATION SHALL NOT BE USED, ALTERED, OR REPRODUCED IN ANY MANNER WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE CIVIL ENGINEER. THESE PLANS ARE SUBJECT TO FEDERAL COPYRIGHT LANS; ANY USE OF SAME WITHOUT EXPRESSED WRITTEN PERMISSION OF THE CIVIL ENGINEER IS PROHIBITED.

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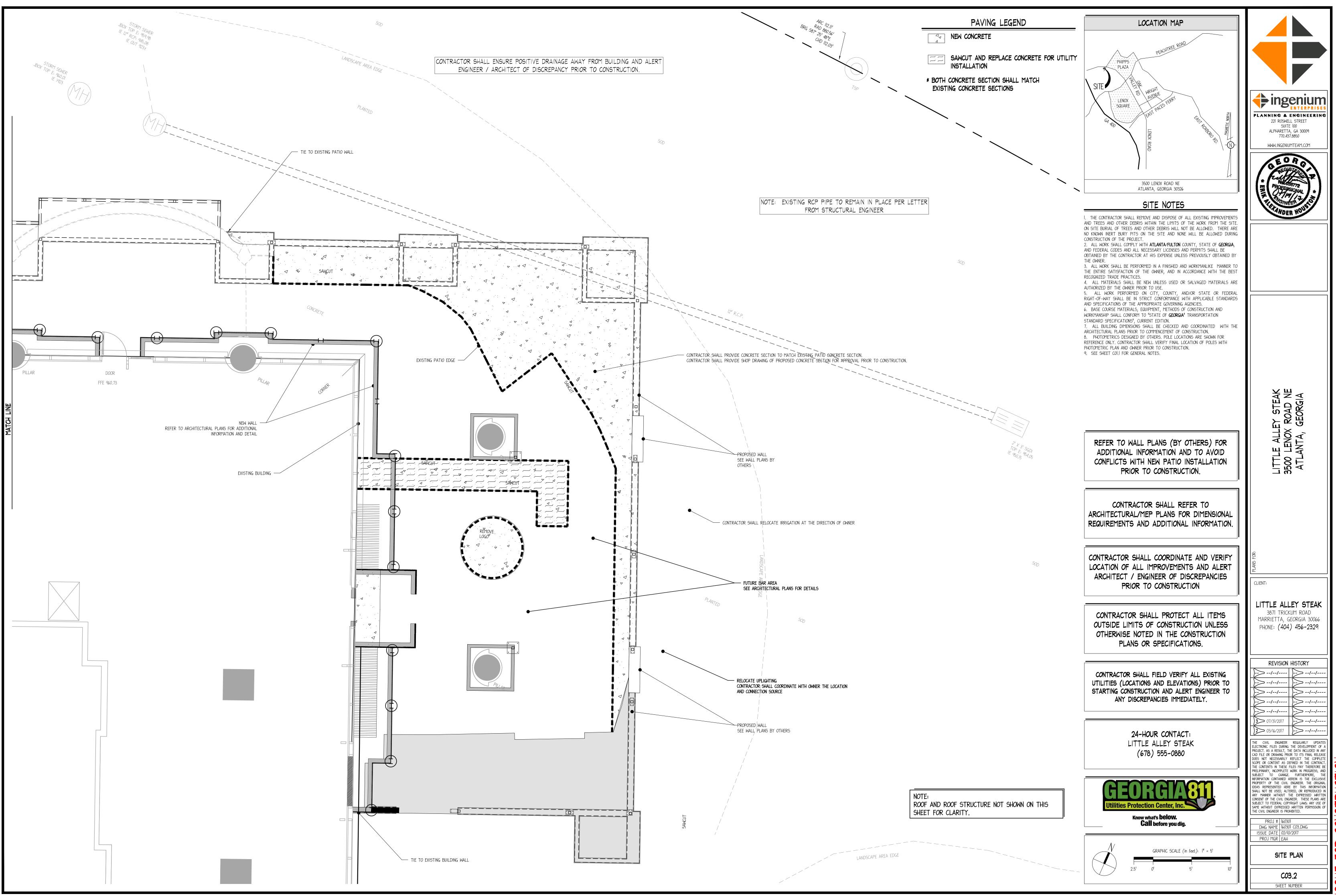
PROJ # 60301 DWG NAME 60301 C03.DWG ISSUE DATE 02/10/2017

SITE PLAN

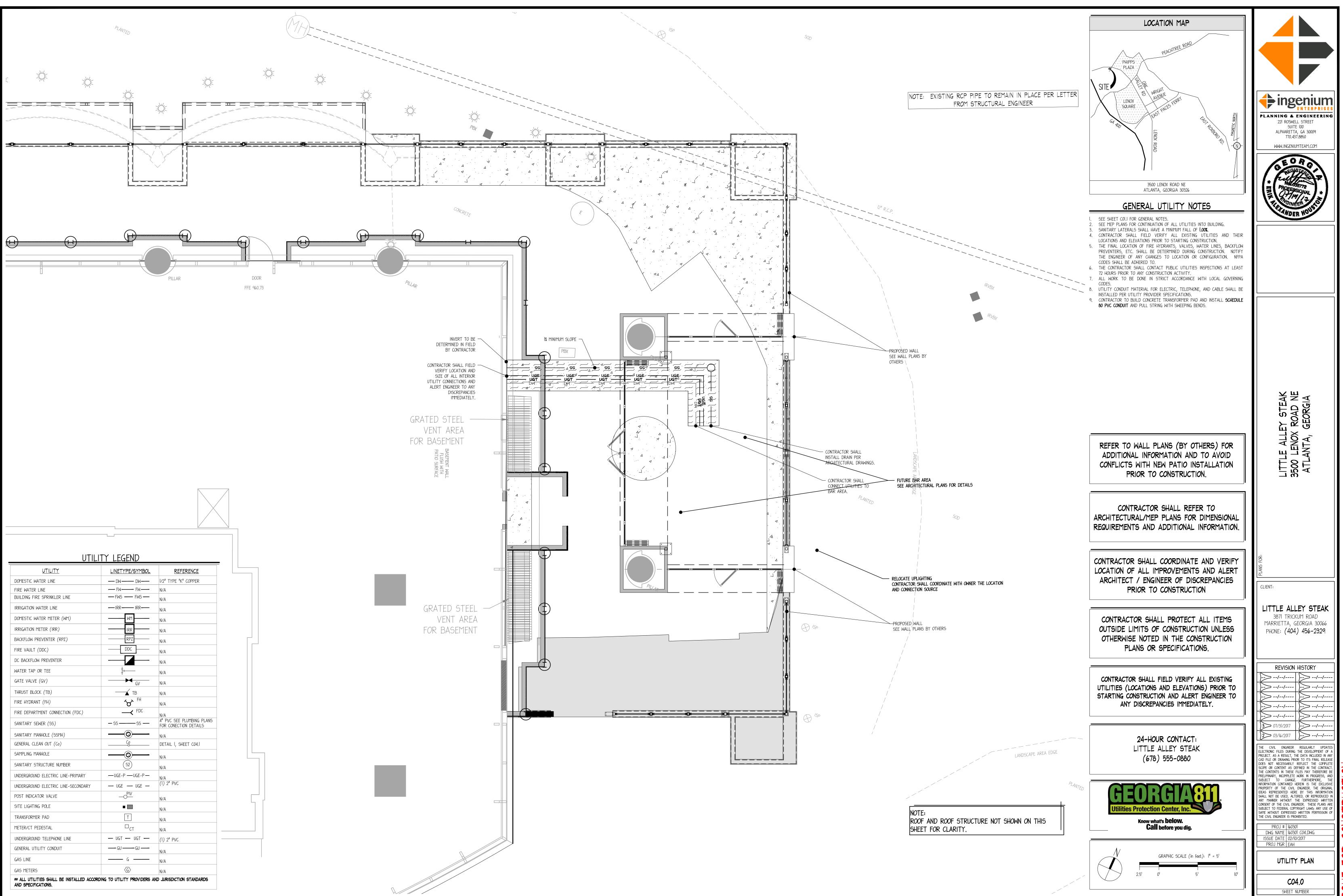
CO3,1 SHEET NUMBER

PROJ MGR EAH

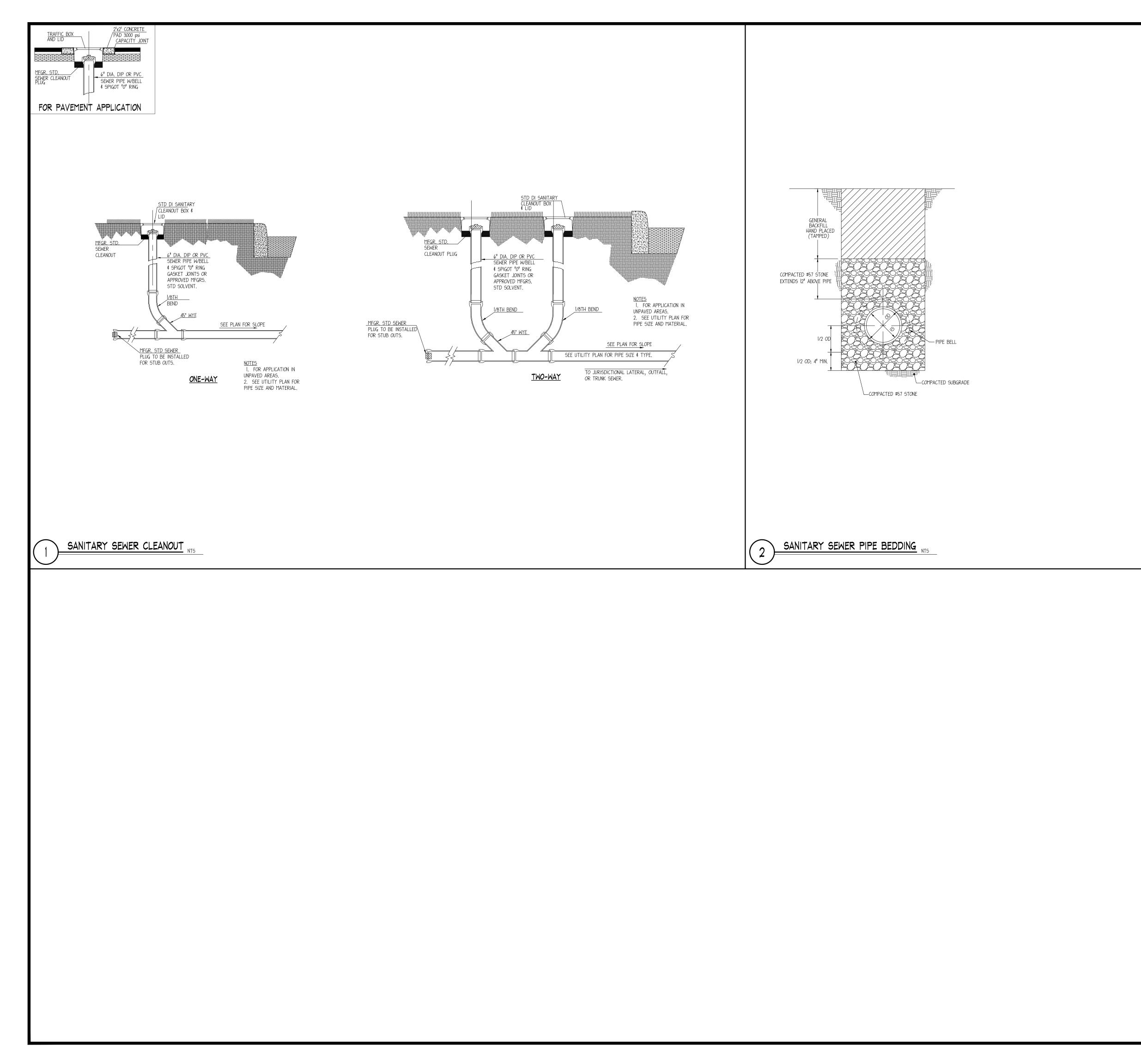
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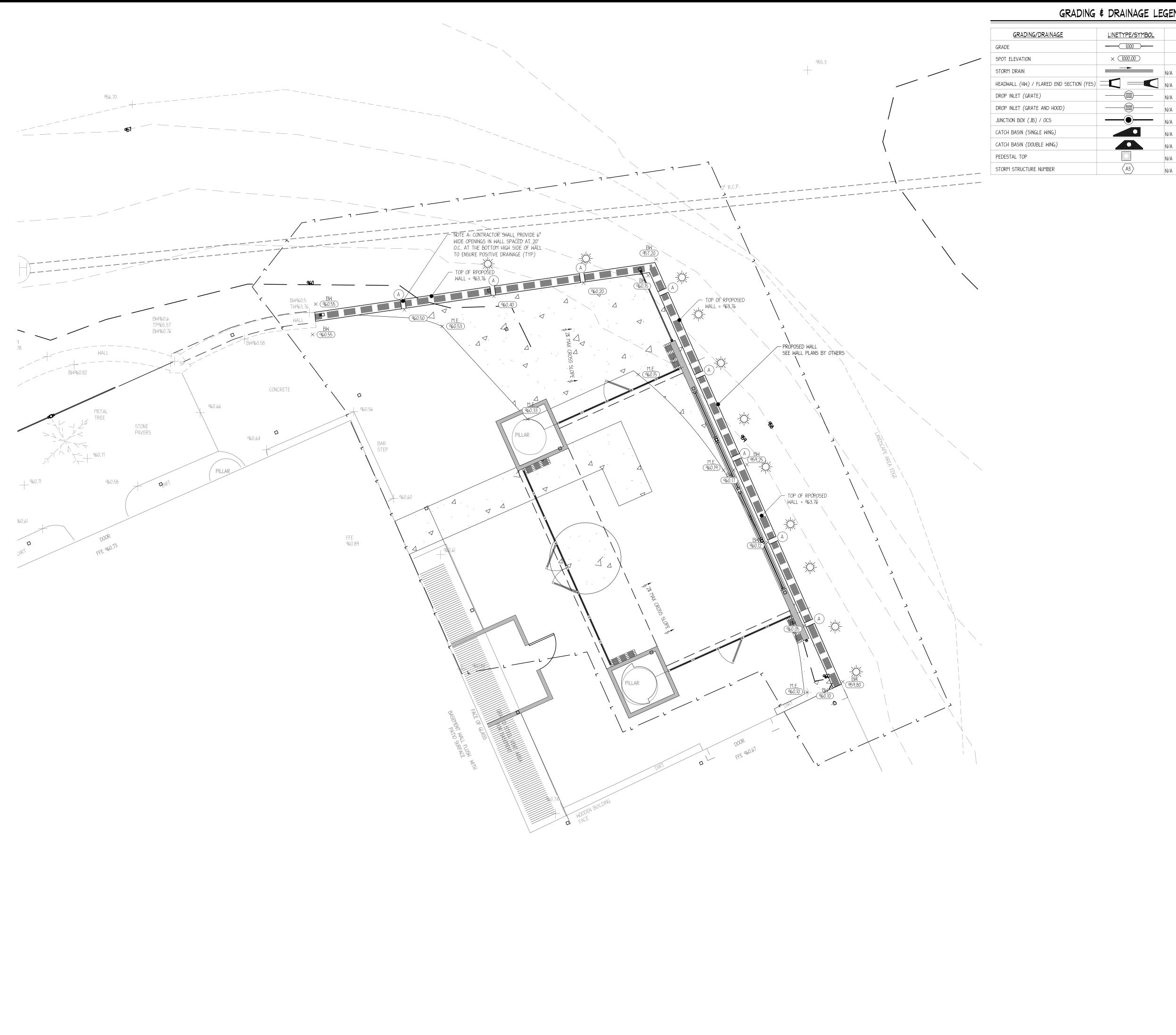
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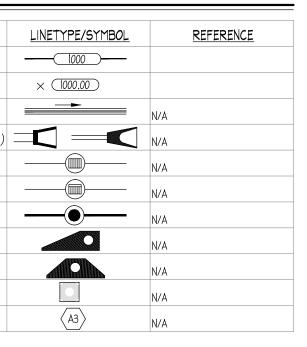
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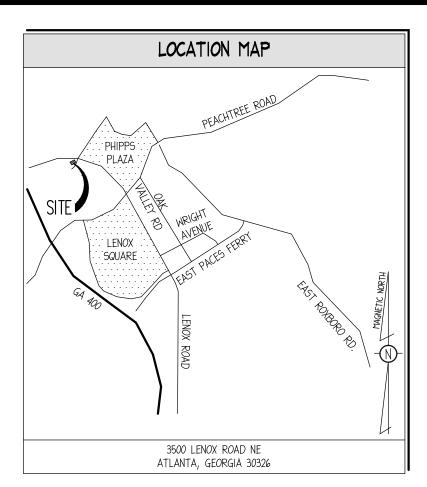


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LITTLE ALLEY STEAK 3500 LENOX ROAD NE ATLANTA, GEORGIA	
CLIENT: LITTLE ALLEY STEAK 3871 TRICKUM ROAD MARRIETTA, GEORGIA 30066 PHONE: (404) 456-2329	
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CO4.1 SHEET NUMBER	ISSUE



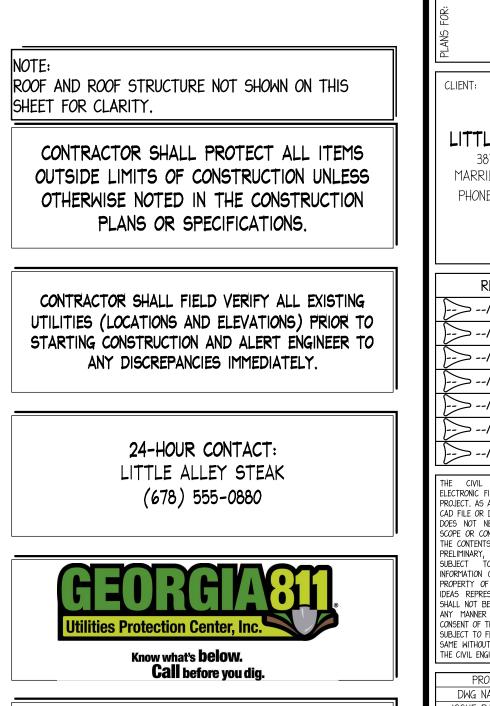
GRADING & DRAINAGE LEGEND

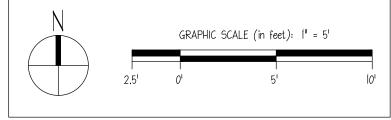




GRADING & DRAINAGE NOTES

- 1. SLOPE OF SURFACE GRADE SHALL BE A MINIMUM OF **1.00%** 2. MAXIMUM CUT OF FILL SLOPES IS 2H:IV.
- 3. THE CONTRACTOR SHALL PROVIDE CLEAN, SUITABLE MATERIAL FOR REQUIRED FILL. SHOULD A SUFFICIENT QUANTITY OF SUITABLE MATERIAL NOT BE AVAILABLE FROM THE REQUIRED EXCAVATION ON THE SITE. 4. ALL FILL SHOULD BE PLACED IN THIN, HORIZONTAL LOOSE LIFTS (MAXIMUM 6-INCH) AND COMPACTED TO AT LEAST 100 PERCENT OF THE STANDARD
- PROCTOR MAXIMUM DRY DENSITY (ASTM D 698). THE UPPER 8 INCHES OF SOIL BENEATH PAVEMENTS AND SLAB-ON-GRADE SHOULD BE COMPACTED TO AT LEAST 100 PERCENT. COMPACTION MUST BE CERTIFIED BY A GEORGIA REGISTERED PROFESSIONAL SOILS ENGINEER PRIOR TO THE INSTALLATION OF
- PAVEMENTS, CURBS, SIDEWALKS OR FOOTINGS OF ANY TYPE. 5. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING IN ALL AREAS AROUND BUILDING. INSTALL FRENCH DRAIN IN LANDSCAPED AREAS. 6. JURISDICTIONAL LAND DISTURBANCE PERMIT MUST BE DISPLAYED ON SITE AT
- ALL TIMES DURING CONSTRUCTION AND IN PLAIN VIEW FROM A PUBLIC ROAD
- OR STREET. 7. SEE SHEET COLI FOR GENERAL NOTES.



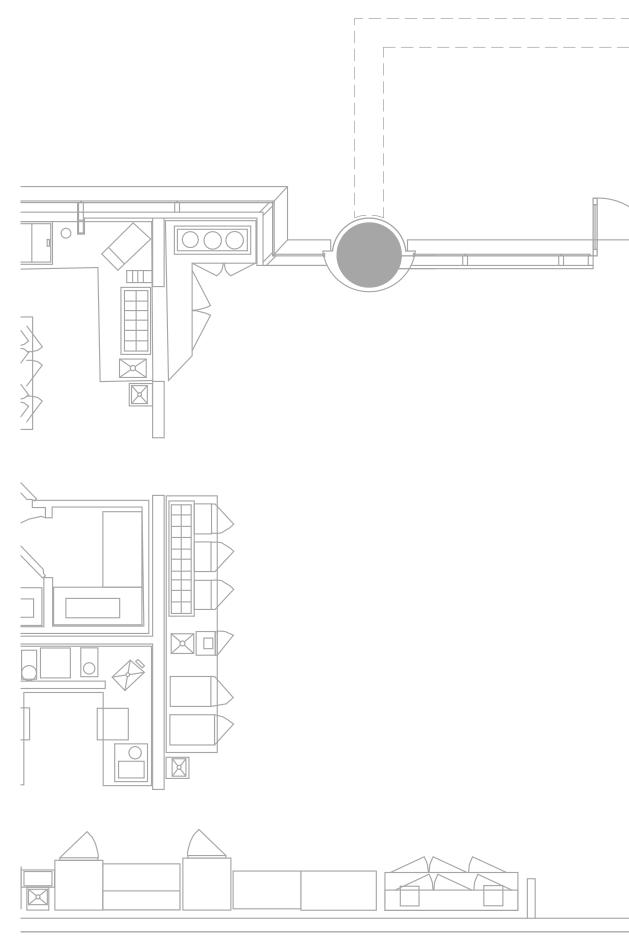


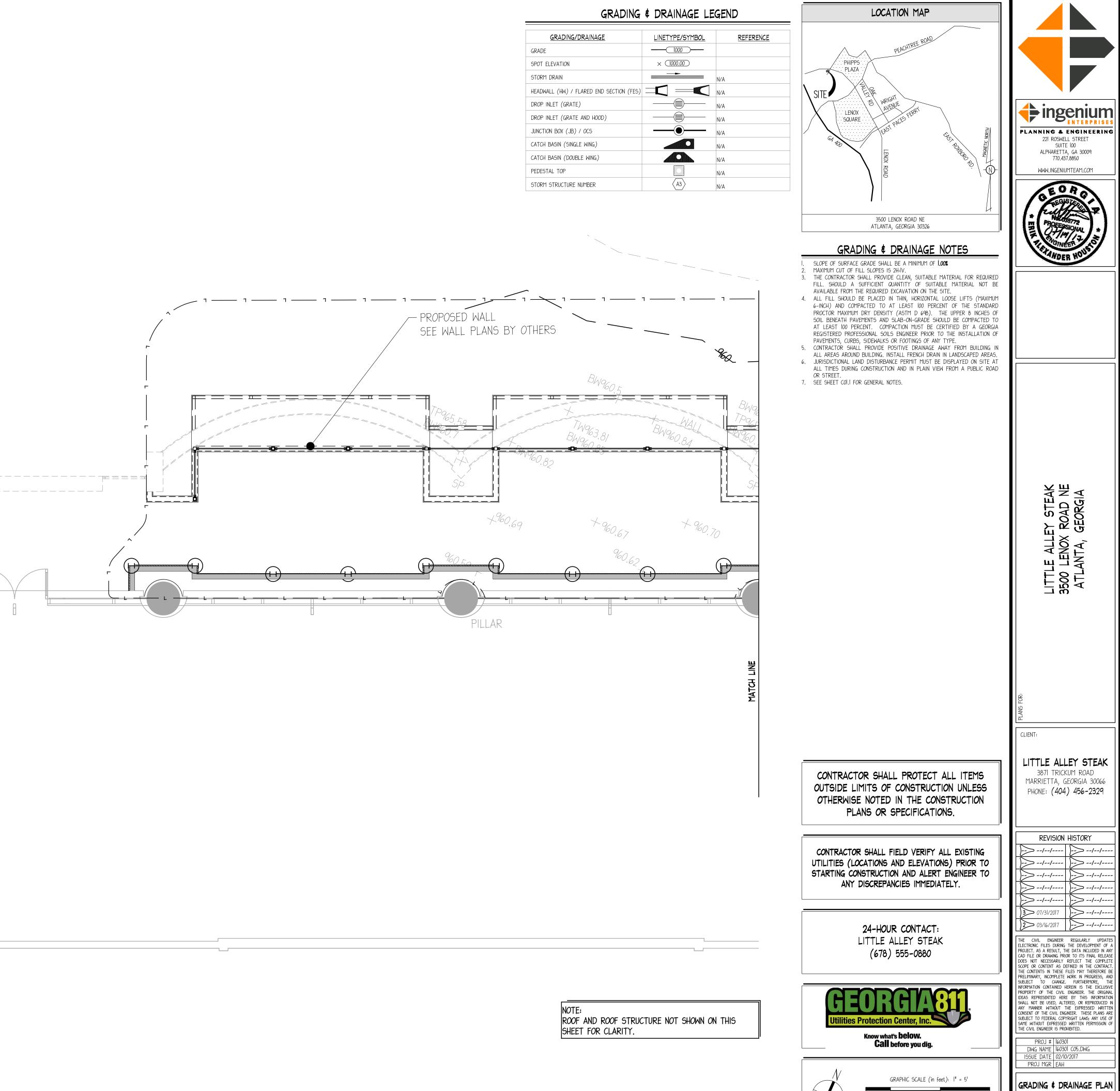
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REVISION HISTORY --> --/--/---> --/--/---> --/--/---/--/---> --/--/---/--/---> --/--/--> --/--/-----> --/--/---/--/---> --/--/--> --/--/---|--> --/--/----> --/--/--THE CIVIL ENGINEER REGULARLY UPDATES ELECTRONIC FILES DURING THE DEVELOPMENT OF A PROJECT. AS A RESULT, THE DATA INCLUDED IN ANY CAD FILE OR DRAWING PRIOR TO ITS FINAL RELEASE DOES NOT NECESSARILY REFLECT THE COMPLETE SCOPE OR CONTENT AS DEFINED IN THE CONTRACT. THE CONTENTS IN THESE FILES MAY THEREFORE BE PRELIMINARY, INCOMPLETE WORK IN PROGRESS, AND SUBJECT TO CHANGE. FURTHERMORE, THE INFORMATION CONTAINED HEREIN IS THE EXCLUSIVE PROPERTY OF THE CIVIL ENGINEER. THE ORIGINAL IDEAS REPRESENTED HERE BY THIS INFORMATION SHALL NOT BE USED, ALTERED, OR REPRODUCED IN ANY MANNER WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE CIVIL ENGINEER. THESE PLANS ARE SUBJECT TO FEDERAL COPYRIGHT LANS; ANY USE OF SAME WITHOUT EXPRESSED WRITTEN PERMISSION OF THE CIVIL ENGINEER IS PROHIBITED. PROJ # 160301

DWG NAME 160301 C05.DWG ISSUE DATE 02/10/2017 PROJ MGR EAH GRADING & DRAINAGE PLAN C05.0

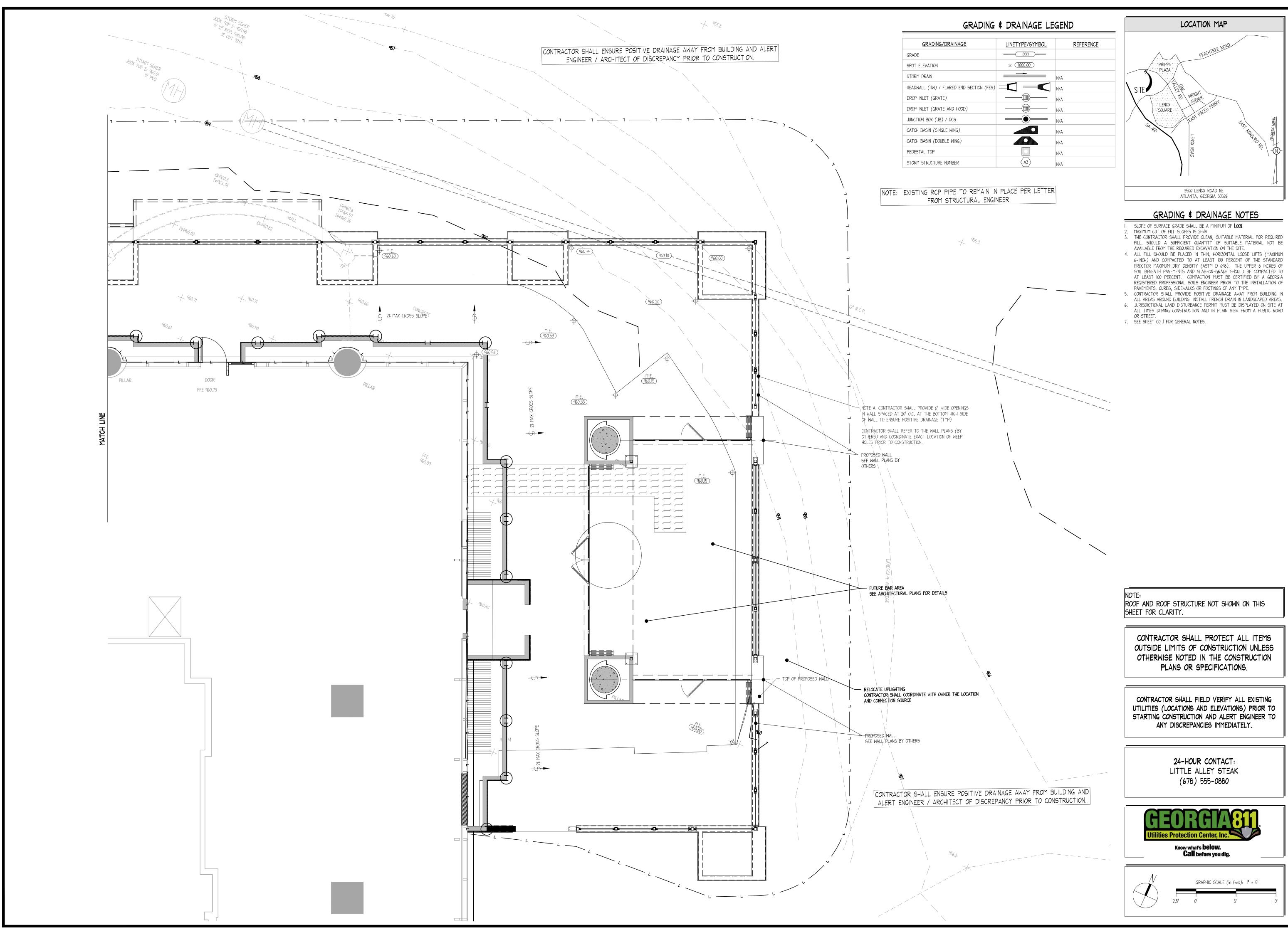
SHEET NUMBER





C05,1 SHEET NUMBER

2.5



E ALLEY STEAK LENOX ROAD NE NTA, GEORGIA TTLE 00 LE л пр Э.П. Пр Э.П. Г.

PLANNING & ENGINEERING

221 ROSWELL STREET

SUITE 100 ALPHARETTA, GA 30009

770,437,8850

WWW.INGENIUMTEAM.COM

LITTLE ALLEY STEAK 3871 TRICKUM ROAD MARRIETTA, GEORGIA 30066 PHONE: (404) 456-2329

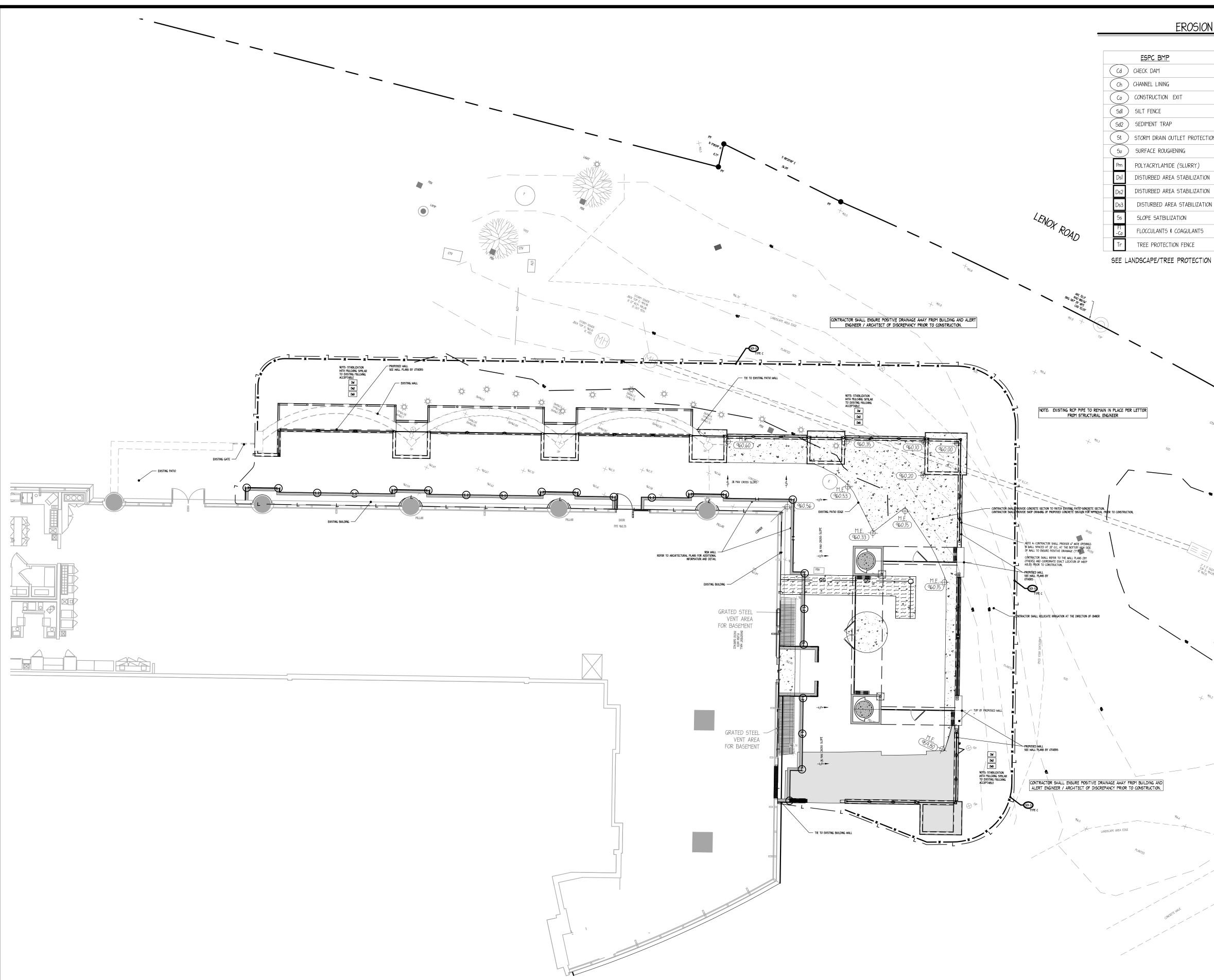
CLIENT:

REVISION HISTORY |--> --/--/---> --/--/------> --/--/--> --/--/---> --/--/--> --/--/----> --/--/--> --/--/--|--> --/--/--> --/--/---3> 07/31/2017 > --/--/---2> 03/16/2017 THE CIVIL ENGINEER REGULARLY UPDATE THE CIVIL ENGINEER REGULARLI OPDATES ELECTRONIC FILES DURING THE DEVELOPMENT OF A PROJECT. AS A RESULT, THE DATA INCLIDED IN ANY CAD FILE OR DRAWING PRIOR TO ITS FINAL RELEASE DOES NOT NECESSARILY REFLECT THE COMPLETE SCOPE OR CONTENT AS DEFINED IN THE CONTRACT. THE CONTENTS IN THESE FILES MAY THEREFORE BE PRELIMINARY, INCOMPLETE WORK IN PROGRESS, AND SUBJECT TO CHANGE. FURTHERMORE, THE SUBJECT TO CHANGE. FURTHERMORE, THE INFORMATION CONTAINED HEREIN IS THE EXCLUSIVE PROPERTY OF THE CIVIL ENGINEER. THE ORIGINAL IDEAS REPRESENTED HERE BY THIS INFORMATION SHALL NOT BE USED, ALTERED, OR REPRODUCED IN ANY MANNER WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE CIVIL ENGINEER. THESE PLANS ARE SUBJECT TO FEDERAL COPYRIGHT LANS; ANY USE OF SAME WITHOUT EXPRESSED WRITTEN PERMISSION OF THE CIVIL ENGINEER IS PROHIBITED.

PROJ # | 160301 DWG NAME 160301 C05.DWG ISSUE DATE 02/10/2017 PROJ MGR EAH

GRADING & DRAINAGE PLAN

C05.2 SHEET NUMBER





EROSION CONTROL LEGEND

	1	
	LINETYPE/SYMBOL	REFERENCE
	0000000	N/A
		N/A
	B2523	N/A
	**	SHEET CO6.2
		N/A
ECTION		N/A
	Su	N/A
	Pm	N/A
TION	Dsl	SHEET CO6.1
TION	Ds2	SHEET CO6.1
ATI <i>O</i> N	D53	SHEET CO6.1
	Mb	N/A
5	F1 -Co	N/A
	TPF	N/A

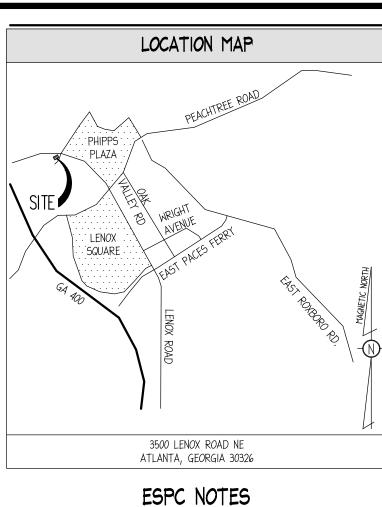
SEE LANDSCAPE/TREE PROTECTION PLANS FOR LEGEND SPECIFIC TO THOSE SHEETS

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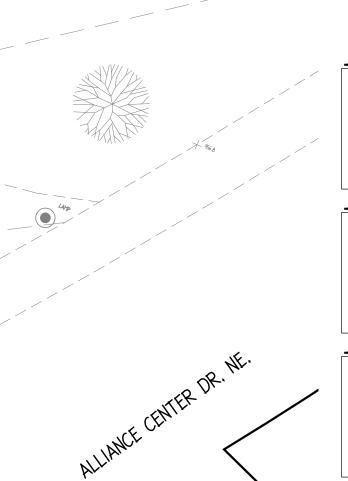
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- <u>GENERAL</u> 1. EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION CONTROL MEASURES AND PRACTICES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE AT THE EXPENSE OF THE CONTRACTOR.
- 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.
- 3. 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.
- 4. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING. ANY AMENDMENT TO THE EROSION CONTROL PLANS WHICH HAVE A SIGNIFICANT
- EFFECT ON BMPS WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL. 6. THE PERMITEE IS ONLY RESPONSIBLE FOR THE FOR THE INSTALLATION AND MAINTENANCE OF STORM WATER MANAGEMENT DEVICES PRIOR TO
- STABILIZATION OF THE SITE AND NOT THE OPERATION AND MAINTENANCE OF SUCH STRUCTURES AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED. EROSION CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL
- PERMANENT GROUND COVER IS ESTABLISHED. 8. SEE GRADING & DRAINAGE NOTES.
- SLOPES AND DISTURBED AREA STABILIZATION CONCENTRATED FLOW AREAS AND ALL SLOPES 2H:IV OR STEEPER SHALL BE
- STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKET. ALL CUT AND FILL SLOPES MUST BE SURFACE ROUGHENED AND VEGETATED WITHIN (7) DAYS OF THEIR CONSTRUCTION. 3. ALL DISTURBED AREAS SHALL BE GRASSED AS SOON AS CONSTRUCTION
- PHASES PERMIT. NO EXPOSED GRADE WILL BE LEFT UNSTABLE FOR MORE THAN 7 DAYS. 4. PERMANENT GRASSING AND LANDSCAPING OF DISTURBED AREAS SHALL BE COMPLETED AS QUICKLY AS POSSIBLE. TEMPORARY STABILIZATION BY
- MULCHING AND/OR TEMPORARY SEEDING WILL BE REQUIRED IN THE EVENT OF PROJECT DELAYS. 5. WIRE MESH REINFORCED SEDIMENT BARRIERS SHALL BE PLACED AT THE TOE OF ALL FILL SLOPES.

DRAINAGE I. ALL DRAINAGE STRUCTURES SHALL BE EROSION PROOFED.

- TREE PROTECTION ALL BUFFERS AND TREE SAVE AREAS SHALL BE CLEARLY IDENTIFIED WITH
- FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE. ALL TREE PROTECTION DEVICES SHALL BE INSTALLED PRIOR TO START OF
- LAND DISTURBANCE AND MAINTAINED UNTIL FINAL LANDSCAPING IS INSTALLED. 3. NO PARKING, STORAGE, OR OTHER CONSTRUCTION SITE ACTIVITIES ARE TO OCCUR WITHIN TREE PROTECTION AREAS.
- MAINTENANCE AND INSPECTIONS I. SEDIMENT AND EROSION CONTROL MEASURES AND PRACTICES SHALL BE
- INSPECTED DAILY. 2. SEDIMENT STORAGE MAINTENANCE INDICATORS MUST BE INSTALLED IN SEDIMENT STORAGE STRUCTURES, INDICATING THE 1/3 FULL VOLUME. SEDIMENT CONTROL DEVICES MUST BE INSPECTED DAILY AND CHECKED AFTER
- EACH STORM EVENT AND CLEANED OR REPLACED WHEN THEY REACH 1/3 OF DESIGN CAPACITY.
- 4. ALL TREE PROTECTION FENCING TO BE INSPECTED DAILY AND REPLACED OR REPAIRED AS NEEDED.
- MAINTENANCE OF ALL SOIL AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE CONTRACTOR.



CONTRACTOR SHALL PROTECT ALL ITEMS OUTSIDE LIMITS OF CONSTRUCTION UNLESS OTHERWISE NOTED IN THE CONSTRUCTION PLANS OR SPECIFICATIONS.

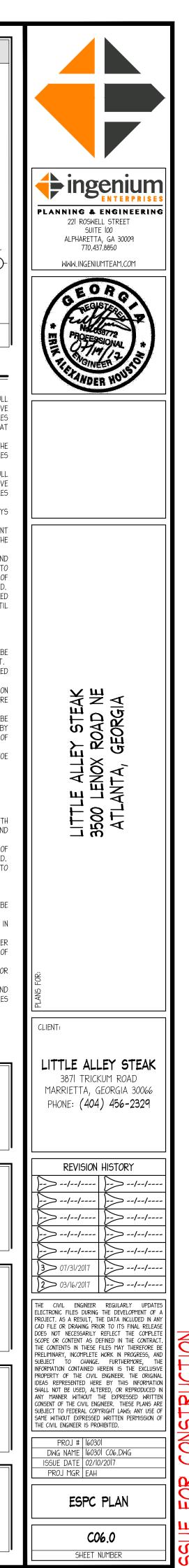
CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES (LOCATIONS AND ELEVATIONS) PRIOR TO STARTING CONSTRUCTION AND ALERT ENGINEER TO ANY DISCREPANCIES IMMEDIATELY.

> 24-HOUR CONTACT: LITTLE ALLEY STEAK (678) 555-0880



GRAPHIC SCALE (in feet): 1" = 10'

ROOF AND ROOF STRUCTURE NOT SHOWN ON THIS SHEET FOR CLARITY.



Disturbed Area Stabilization (With Mulching Only)



DEFINITION

Applying plant residues or other suitable materials, produced on the site if possible, to the soil surface.

PURPOSE

- To reduce runoff and erosion
- To conserve moisture
- •To prevent surface compaction or crusting
- •To control undesirable vegetation
- •To modify soil temperature
- •To increase biological activity in the soil

REQUIREMENT FOR REGULATORY COMPLIANCE

Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Mulch can be used as a singular erosion control device for up to six months, but it shall be applied at the appropriate depth, depending on the material used, anchored and have a continuous 90% cover or greater of the soil surface.

Maintenance shall be required to maintain appropriate depth and 90% cover. Temporary vegetation may be employed instead of mulch if the area will remain undisturbed for less than six months.

If any area will remain undisturbed for greater than six months, permanent vegetative techniques shall be employed. Refer to Ds2 -Dis-

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DISTURBED AREA STABILIZATION

turbed Area Stabilization (With Temporary Seeding), Ds3 - Disturbed Area Stabilization (With Permanent Seeding), and Ds4 - Disturbed Area Stabilization (With Sodding).

SPECIFICATIONS Mulching Without Seeding

This standard applies to graded or cleared areas where seedings may not have a suitable growing season to produce an erosion retardant cover, but can be stabilized with a mulch cover.

Site Preparation

- 1. Grade to permit the use of equipment for applying and anchoring mulch.
- 2. Install needed erosion control measures as required such as dikes, diversions, berms, terraces and sediment barriers.
- 3. Loosen compact soil to a minimum depth of 3 inches.

Mulching Materials

Select one of the following materials and apply at the depth indicated:

- 1. Dry straw or hay shall be applied at a depth of 2 to 4 inches providing complete soil coverage. One advantage of this material is easy application.
- 2. Wood waste (chips, sawdust or bark) shall be applied at a depth of 2 to 3 inches. Organic material from the clearing stage of development should remain on site, be chipped, and applied as mulch. This method of mulching can greatly reduce erosion control costs.
- 3. Polyethylene film shall be secured over banks or stockpiled soil material for temporary protection. This material can be salvaged and re-used.

Applying Mulch

When mulch is used without seeding, mulch shall be applied to provide full coverage of the exposed area.

1. Dry straw or hay mulch and wood chips shall be applied uniformly by hand or by mechanical equipment.

6-27

- 2. If the area will eventually be covered with perennial vegetation, 20-30 pounds of nitrogen per acre in addition to the normal amount shall be applied to offset the uptake of nitrogen caused by the decomposition of the organic mulches.
- 3. Apply polyethylene film on exposed areas.

Anchoring Mulch

1. Straw or hay mulch can be pressed into the soil with a disk harrow with the disk set straight or with a special "packer disk." Disks may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disk should be dull enough not to cut the mulch but to press it into the soil leaving much of it in an erect position. Straw or hay mulch shall be anchored immediately after application.

Straw or hay mulch spread with special blower-type equipment may be anchored. Tackifers, binders and hydraulic mulch with tackifier specifically desgined for tacking straw can be substituted for emulsified asphalt. Please refer to specification Tac-Tackifers. Plastic mesh or netting with mesh no larger than one inch by one inch shall be installed according to manufacturer's specifications.

- 2. Netting of the appropriate size shall be used to anchor wood waste. Openings of the netting shall not be larger than the average size of the wood waste chips.
- 3. Polyethylene film shall be anchor trenched at the top as well as incrementally as necessary.

6-28

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Species	Broadcast Rates		Kesource Area ³	Planting Dates by Resource Area	Remarks
				Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.	
	P (F Rate Per Acre ²	Pure Live Seed (PLS) Per 1000 sqft		D Z V V V V V V V V V V V V V V V V V V	
BARLEY Hordeum vulagre					
alone	3 bu. (144 lbs)	3.3 lbs	M-L		14.000 seed per pound. Winter hardv. Use
in mixture	1/2 bu. (24lbs)	0.6 lb	٩		on productive soils.
			C		
LESPEDEZA, ANNUAL Lespedeza striata					
alone	40 lbs	0.9 lb	M-L		200 000 cood her hound. May volunteer for cov.
in mixture	10 lbs	0.2 lb	٩		eral years. Use inoculant EL.
			υ		
LOVEGRASS, WEEPING Eragrostis curvula					
alone	4 lbs	0.1 lb	M-L		1 500 000 seed her mund. May last for several
in mixture	2 lbs	0.05 lb	٩		years. Mix with Sericea lespedeza.
			υ	+++++++++++++++++++++++++++++++++++++	
MILLET, BROWNTOP Panicum fasciculatum					
alone	40 lbs	0.9 lb	M-L		
in mixture	10 lbs	0.2 lb	ር (137, uuu seed per pound. Quick dense cover. Will provide excessive competion in mixtures if
			с S		seeded at high rate.

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T. PEARL 50 lbs 1.1 lbs M.L P P P P seturn gleucum 50 lbs 1.1 lbs M.L P P P P sativa 50 lbs 1.1 lbs P P P P P sativa 50 lbs 1.1 lbs M.L P P P P sativa 4 bu. (128 lbs) 2.9 lbs M.L P P P P P sativa 4 bu. (128 lbs) 0.7 lb P <td></td> <td></td> <td>Pure Live Seed (PLS) Per 1000 sqft</td> <td></td> <td>Ш</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			Pure Live Seed (PLS) Per 1000 sqft		Ш								
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NGRASS Im sudanese 60 lbs 1.4 lbs M-L	0)	40 lbs	0.9 lb			 		• •	+ + +	+++			227,000 seed per pound. Dense cover. Very com- petitive and is <u>not</u> to be used in mixtures.
NGRASS Im sudanese 60 lbs 1.4 lbs M-L	ni intercente - o orden						_		-				
60 lbs 1.4 lbs M-L	ANGRASS hum sudanese												
	Ð	60 lbs	1.4 lbs	M-L		l			1				
				۵ (Ц	+	П				μ̈́Ζ	55,000 seed per pound. Good on droughty sites.

DISTURBED AREA STABILIZATION

Disturbed Area Stabilization (With Temporary Ds2 Seeding)



DEFINITION

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

PURPOSE

 To reduce runoff and sediment damage of down stream resources

- •To protect the soil surface from erosion
- To improve wildlife habitat
- To improve aesthetics
- •To improve tilth, infiltration and aeration as well as organic matter for permanent plantings

REQUIREMENT FOR REGULATORY COMPLIANCE

Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Temporary grassing, instead of mulch, can be applied to rough graded areas that will be exposed for less than six months. If an area is expected to be undisturbed for longer than six months, permanent perennial vegetation shall be used. If optimum planting conditions for temporary grassing is lacking, mulch can be used as a singular erosion control device for up to six months but it shall be applied at the appropriate depth, anchored, and have a continuous 90% cover or greater of the soil surface. Refer to specification Ds1-Disturbed Area Stabilization (With Temporary Seeding).

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CONDITIONS

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. Note: Some species of temporary vegetation are not appropriate for companion crop plantings because of their potential to out-compete the desired species (e.g. annual ryegrass). Contact NRCS or the local SWCD for more information.

SPECIFICATIONS Grading and Shaping

Excessive water run-off shall be reduced by properly designed and installed erosion control practices such as closed drains, ditches, dikes, diversions, sediment barriers and others.

No shaping or grading is required if slopes can be stabilized by hand-seeded vegetation or if hydraulic seeding equipment is to be used.

Seedbed Preparation

When a hydraulic seeder is used, seedbed preparation is not required. When using conventional or hand-seeding, seedbed preparation is not required if the soil material is loose and not sealed by rainfall.

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 lodge and germinate.

Lime and Fertilizer

Agricultural lime is required unless soil tests indicate otherwise. Apply agricultural lime at a rate determined by soil test for pH. Quick acting lime should be incorporated to modify pH during the germination period. Bio stimulants should also be considered when there is less than 3% organic matter in the soil. Graded areas require lime application. Soils must be tested to determine required amounts of fertilizer and amendments. Fertilizer should be applied before land preparation and incorporated with a disk, ripper, or chisel. On slopes too steep for, or inaccessible to equipment, fertilizer shall be hydraulically applied, preferably in the first pass with seed and some hydraulic mulch, then topped with the remaining required application rate.

6-29

Broadcast Rates Area ³ Planting Dates by Resource Area Remarks	Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.	Pure Live Seed J F M J J A S O N D Rate Per Acre ² sqft J F M J J A S O N D		3 bu. (144 lbs) 3.3 lbs C C	1/2 bu. (24 lbs) 0.6 lb		3 bu. (180 lbs) 4.1 lbs M-L	1/2 bu. (30 lbs) 0.7 lb P	
Broadcast R		Rate Per Acre ²		3 bu. (144 lbs	1/2 bu. (24 lb		3 bu. (180 lbs	1/2 bu. (30 lbs	-
Species			TRITICALE X-Triticosecale	alone	in mixture	WHEAT Triticum aestivum	alone	in mixture	

Mulching

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

6-30

Seeding

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, culti-packer-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 be "raked" lightly to cover seed with soil if seeded by hand. See Table 6-4.1

Temporary vegetation can, in most cases, be established without the use of mulch, provided there is little to no erosion potential. However, the use of mulch can often accelerate and enhance germination and vegetation establishment. Mulch without seeding should be considered for short term protection. Refer to Ds1 - Disturbed Area Stabilization (With Mulching Only).

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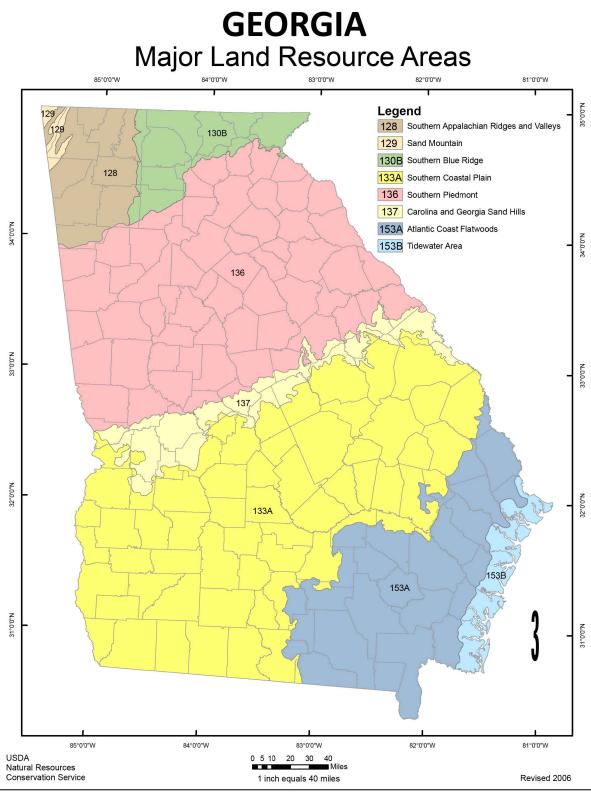


Figure 6-4.1

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LITTLE ALLEY STEAK 3500 LENOX ROAD NE ATLANTA, GEORGIA	
CLIENT: LITTLE ALLEY STEAK 3871 TRICKUM ROAD MARRIETTA, GEORGIA 30066 PHONE: (404) 456-2329	
REVISION HISTORY	A Y E E T. E D E P A N N N N E E F.
PROJ MGR EAH	

CONSTRUCTION FOR ISSUE

Sediment Barrier (Sd1



DEFINITION

Sediment Barriers are temporary structures made up of a porous material typically supported by steel or wood posts. Types of sediment barriers may include silt fence, brush piles, mulch berms, compost filter socks or other filtering material.

PURPOSE

To minimize and prevent sediment carried by sheet flow from leaving the site and entering natural drainage ways or storm drainage systems by slowing storm water runoff and causing the deposition and/or filtration of sediment at the structure. The barriers retain the soil on the disturbed land until the activities disturbing the land are completed and vegetation is established.

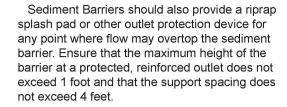
CONDITIONS

Barriers should be installed where runoff can be stored behind the barrier without damaging the submerged area behind the barrier or the structure itself. Sediment barriers shall not be installed across streams, ditches, waterways, or other concentrated flow areas.

DESIGN CRITERIA

Sediment barriers are designed to retain sediment transported by sheet flow from disturbed areas. It is important for the design professional to take into account the profile of the product for use on the site.

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Where all runoff is to be stored behind the sediment barrier (where no storm water disposal system is present), maximum continuous slope length behind a sediment barrier shall not exceed those shown in Table 6-27.1. For longer slope lengths, slope interrupters must be used. The drainage area shall not exceed 1/4 acre for every 100 feet of sediment barrier.

Table 6-27.1 Criteria for Sediment Barrier

	Maximum Slope
Land Slope	Length Above Fence
Percent	Feet
< 2	100
2 to 5	75
5 to 10	50
10 to 20	25
>20*	15
*In areas where the slop	be is greater than 20%,

a flat area length of 10 feet between the toe of slope to the barrier should be provided. Placement

The type of sediment barrier depends on whether the area is sensitive or nonsensitive. Sensitive areas can be defined as any area that

needs additional protection, these areas include but are not limited to, state waters, wetlands, or any area the design professional designates as sensitive.

When using multiple types of sediment barriers on a site in a single run, the barriers must be overlapped 18 inches or as specified by design professional. See Figure 6-27.5

CONSTRUCTION SPECIFICATIONS

Non-sensitive Areas * (Sd1-NS

Sediment barriers being used as Type NS shall have a support spacing of no greater than 6 feet on center, with each being driven into the ground a minimum of 18 inches.

6-137

(Sd1-S Sensitive Areas* Sediment barriers being used as Type S shall

have a support spacing of no greater than 4 feet on center, with each being driven into the ground a minimum of 18 inches.

*As of January 1 2016, in the existing Georgia Department of Transportation Qualified Products list #36 (QPL- 36), Type A, B, or C will fall under sensitive and non-sensitive applications. Type C will be classified as sensitive and Type A and B as non-sensitive. Refer to Appendix A-2 and the Equivalent BMP List.

PRACTICE CLASSIFICATIONS

For silt fence Type A, B, or C, refer to Table 6-27.4.

Type A Silt Fence

This 36-inch wide filter fabric shall be used on developments where the life of the project is great than or equal to six months. Type A is classified as non-sensitive application.

Type B Silt Fence

Though only 22-inches wide, this filter fabric allows the same flow rate as Type A silt fence. Type B silt fence shall be limited to use on minor projects, such as residential home sites or small commercial developments where permanent stabilization will be achieved in less than six months. Type B is classified as non-sensitive application.

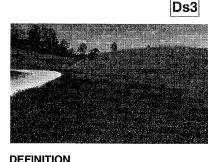
Type C Silt Fence

Type C fence is 36-inches wide with wire reinforcement or equivalent. The wire reinforcement is necessary because this fabric allows almost three times the flow rate as Type A silt fence. Type C silt fence shall be used where runoff flows or velocities are particularly high or where slopes exceed a vertical height of 10 feet. Type C is classified as sensitive application.

Filter Media Sock Specifications Compost filter media used for sediment barrier filler material shall be weed free and derived from a well-decomposed source of organic matter. Filter Media Sock is classified as a Type B, non-sensitive application. The compost shall be produced using an aerobic composting GSWCC 2016 Edition

this requirement.

Disturbed Area Stabilization that within the growing season a 70% coverage by (With Permanent Vegetation)



The planting of perennial vegetation such as trees shrubs, vines, grasses, or legumes on exposed areas for final permanent stabilization. Permanent perenni-

al vegetation shall be used to achieve final stabiliza-

PURPOSE

GaSWCC (Amended - 2000)

To protect the soil surface from erosio - To reduce damage from sediment and runoff to

downstream areas To improve wildlife habitat and visual resources - To improve aestetics

REQUIREMENT FOR REGULATORY COMPLIANCE

This practice shall be applied immediately to rough graded areas that will be undisturbed for longer than six months. This practice or sodding shall be applied immediately to all areas at final grade. Final Stabilization means that all soil disturbing activities at the site have been completed, and that for unpaved areas and areas not covered by permanment structures, at least 70% of the soil surface is uniformly cov ered in permanment vegetation or equivalent perman ment stabilization measures (such as the use of rip rap, gabions, permanent mulches or geotextiles) have been employed. Permanent vegetation shall consist of: planted trees, shrubs, perennial vines; a crop of perennial vegetation apporpriate for the region, such

perennial vegetation shall be achieved. Final stabiliza tion applies to each phase of construction. For linear construction projects on land used for agricultural o silvicultural purposes, final stabilization may be accomplished by stabilizing the disturbed land for its gricultural or silvicultural use. Until this standard is atisfied and permanent control measures and faciliies are operational, interim stabilization measures nd temporary erosion and sedimentation contro neasures shall not be removed.

CONDITIONS

Permanent perennial vegetation is used to provide a protective cover for exposed areas including cuts, s, dams, and other denuded areas.

PLANNING CONSIDERATIONS

 Use conventional planting methods where possible 2. When mixed plantings are done during marginal planting periods, companion crops shall be used No-till planting is effective when planting is done following a summer or winter annual cover crop. Sericea espedeza planted no-till into stands of rye is an excel lent procedure. 4. Block sod provides immediate cover. It is especial ly effective in controlling erosion adjacent to concrete flumes and other structures. Refer to Specification

Ds4-Disturbed Area Stabilization (With Sodding). 5. Irrigation should be used when the soil is dry or hen summer plantings are done. Low maintenance plants, as well as natives, should

be used to ensure long-lasting erosion control. Mowing should not be performed during the quail nesting season (May to September). Wildlife plantings should be included in critical area

Wildlife Plantings Commercially available plants beneficial to wildlife

Mast Bearing Trees Beech, Black Cherry, Blackgum, Chestnu

Oak, Persimmon, Sawtooth Oak and Sweetgum. All trees that produce nuts or fruits are favored by Shruhs and Small Trees Bayberry, Bicolor Lespedeza, Crabapple, Dogwood, Huckleberry or Native Blueberry, Mountain Laurel, Native Holly, Red Cedar, Red Mulberry, Sumac, Wax Myrtle, Wild Plum and Blackberry, Plant in patches without tall trees to develop stable shrub communities. All produce fruits used by many kinds of wildlife, except for lespedeza which produces

Grasses, Legumes, Vines and Temporary Cover Bahiagrass, Bermudagrass, Grass-Legume mixtures, Partridge Pea, Annual Lespedeza Drchardgrass (for mountains), Browntop Millet (for temporary cover), and Native grapes. Provides herbaceous cover in clearings for a game bird brood-rearing habitat. Appropriate legumes such as vetches, clovers, and lespedezas may be mixed with grass, but they may die out after a few years.

CONSTRUCTION SPECIFICATIONS

Grading and shaping may not be required where hydraulic seeding and fertilizing equipment is to be ised. Vertical banks shall be sloped to enable plant When conventional seeding and fertilizing are to be

so that equipment can be used safely and efficiently during seedbed preparation, seeding, mulching and maintenance of the vegetation.

soil erosion shall be diverted to a safe outlet. Diversions and other treatment practices shall conform with the appropriate standards and specifica-

perennial vegetation, additional lime is not required.

than 50 paraget will pass through a 50 mash giava and not less than 25 percent will pass through a 100mesh sieve.

Agricultural lime spread by hydraulic seeding equipment shall be "finely ground limestone" Finely ground limestone is calcitic or dolomitic limestone ground so that 98 percent of the material will pas through a 20-mesh sieve and not less than 70 percent will pass through a 100-mesh sieve. It is desirable to use dolomitic limestone in the

Sand Hills, Southern Coastal Plain and Atlantic Coast Flatwoods MLRAs. (See Figure 6-4.1) Agricultural lime is generally not required where only trees are planted Initial fertilization, nitrogen, topdressing, and main-

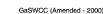
tence fertilizer requirements for each species or combination of species are listed in Table 6-5.1.

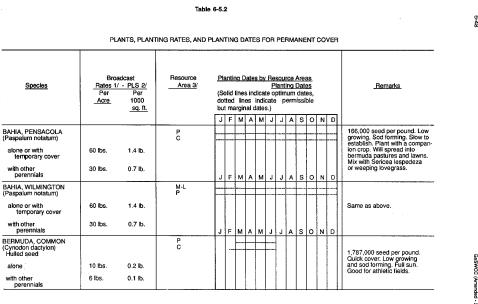
Lime and Fertilizer Application When hydraulic seeding equipment is used, the initial fertilizer shall be mixed with seed, innoculant (if needed), and wood cellulose or wood pulp fiber mulch and applied in a slurry. The innoculant, if needed, shall be mixed with the seed prior to being placed into the hydraulic seeder. The slurry mixture will be agitated during application to keep the ingredients thoroughly mixed. The mixture will be spread uniformly over the area within one hour after being placed in the

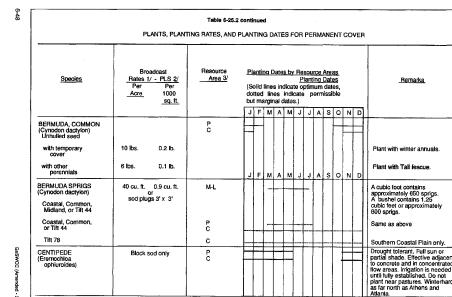
Finely ground limestone will be mixed with water and applied immediately after mulching is completed or in combination with the top dressing. When conventional planting is to be done, lime and fertilizer shall be applied uniformly in one of the following ways:

1. Apply before land preparation so that it will be mixed with the soil during seedbed preparatio 2. Mix with the soil used to fill the holes, distribute in Agricultural lime is required at the rate of one to two 3. Broadcast after steep surfaces are scarified, pitted Graded areas require lime application. If lime is 4. A fertilizer pellet shall be placed at root depth in the closing hole beside each pine tree seedling.

Refer to Tables 6-4.1, 6-5.2, 6-5.3 and 6-5.4 fe lomitic limestone ground so that 90 percent of the the Natural Resources Conservation Service before







DISTURBED AREA STABILIZATION

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species include the following:

Chinkapin, Hackberry, Hickory, Honey Locust, Native

many game species. Hickory provides nuts used mainly by squirrels and bear.

Lime and Fertilizer Rates and Analysis

the Georgia Department of Agriculture. material will pass through a 10-mesh sieve, not less they are used.

hydroseeder. done, grade and shape where feasible and practical, Concentrations of water that will cause excessive

tons per acre unless soil tests indicate otherwise. or trenched. applied within six months of planting permanent Agricultural lime shall be within the specifications of "ground limestone." Ground limestone is calcitic or approved by the State Resource Conservationist of

Plant Selection Lime spread by conventional equipment shall be approved species. Species not listed shall be

Grading and Shaping

seeds used by quail and songbirds.

alone

process meeting CFR 503 regulations including time and temperature data. The compost shall be free of any refuse, contaminants or other materials toxic to plant growth. Non-composted products will not be accepted without applicable water quality test results. Test methods for the items below should follow US Composting Council Test Methods for the Examination of Composting and Compost guidelines for laboratory procedures:

A. pH – 5.0-8.0 in accordance with TMECC 04.11-A, "Electrometric pH Determinations for Compost"

B. Particle size – 99% passing a 2 inch (50mm) sieve and a maximum of 40% passing a 3/8 inche (9.5mm) sieve, in accordance with TMECC 02.02-B, "Sample Sieving for Aggregate Size Classification". (Note: In the field, product

C. Moisture content of less than 60% in accordance with standardized test methods for moisture determination.

commonly is between 1/2 in./12.5mm and 2 in./50

mm in particle size.)

D. Material shall be relatively free (<1% by dry weight) of inert or foreign manmade materials.

E. Sock containment system for compost filter media shall be a photodegradable or biodegradable knitted mesh material and should have 1/8 in. to 3/8 in., openings.

Sd1-BB Brush Barrier ((Only during timber clearing operations)

Brush obtained from clearing and grubbing operations may be piled in a row along the perimeter of disturbance at the time of clearing and grubbing. Brush barriers should not be used in developed areas or locations where aesthetics are a concern.

Brush should be wind-rowed on the contour as nearly as possible and may require compaction Construction equipment may be utilized to satisfy

The minimum base width of the brush barrier shall be 5 feet and should be no wider 10 feet. The height of the brush barrier should be between 3 and 5 feet tall.

A brush barrier is a good tool to use in developing pasture in an agricultural situation to prevent sediment from leaving the site until the pasture is stabilized.

If greater filtering capacity is required, a commercially available sediment barrier may be placed on the side of the brush barrier receiving the sediment-laden runoff. The lower edge of the fabric must be buried in a 6-inch deep trench immediately uphill from the barrier. The upper edge must be stapled, tied or otherwise fastened to the brush barrier. Edges of adjacent fabric pieces must overlap each other. See Figure 6-27.5.

Installation Sediment barriers should be installed along the contour.

Temporary sediment barriers shall be installed according to the following specifications as shown on the plans or as directed by the design professional.

For installation of the barriers, See Figures 6-27.1, 6-27.2, 6-27.3 and 6-27.4, respectively. It is important to remember that not all sediment barriers need to be trenched into the ground but most taller sediment barriers do.

Post installation shall start at the center of a low point (if applicable) with the remaining posts spaced no greater than 6 feet apart for Type NS sediment barriers and no greater than 4 feet apart for Type C sediment barriers. For post size requirements, see Table 6-27.2. Fasteners for wood posts are listed in Table 6-27.3.

Static Slicing Method The static slicing machine pulls a narrow

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blade through the ground to create a slit 12" deep, and simultaneously inserts the silt fence fabric into this slit behind the blade. The blade is designed to slightly disrupt soil upward next to the slit and to minimize horizontal compaction, thereby creating an optimum condition for compacting the soil vertically on both sides of the fabric. Compaction is achieved by rolling a tractor wheel along both sides of the slit in the ground 2 to 4 times to achieve nearly the same or greater compaction as the original undisturbed soil. This vertical compaction reduces the air spaces between soil particles, which minimizes infiltration. Without this compaction infiltration can saturate the soil, and water may find a pathway under the fence. When a silt fence is holding back several tons of accumulated water and sediment, it needs to be supported by posts that are driven 18 inches into the soil. Driving in the posts and attaching the fabric to them completes the installation.

Trenching Method

Trenching machines have been used for over twenty-five years to dig a trench for burying part of the filter fabric underground. Usually the trench is about 2-"6" wide with a 6" excavation. Post setting and fabric installation often precede compaction, which make effective compaction more difficult to achieve. EPA supported an independent technology evaluation (ASCE 2001), which compared three progressively better variations of the trenching method with static slicing method. The static slicing method performed better than two lower performance levels of the trenching method, and was as good as or better than the trenching method's highest performance level. The best trenching method typically required nearly triple the time and effort to achieve results comparable to the static slicing method.

Along all state waters and other sensitive areas, two rows of Type S sediment barriers shall be used. The two rows of Type S should be placed a minimum of 36 inches apart.

MAINTENANCE Sediment shall be removed once it has accumulated to one-half the original height of the barrier.

Sediment barriers shall be replaced whenever they have deteriorated to such an extent that the effectiveness of the product is reduced (approximately six months) or the height of the product is not maintaining 80% of its properly installed

Temporary sediment barriers shall remain in place until disturbed areas have been permanently stabilized. All sediment accumulated at the barrier shall be removed and properly disposed of before the barrier is removed.

TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN When a SEDIMENT BARRIER is used, show the product height in inches for each barrier being used on site.

is planned. Maintain mulch at three-inch thickness until plants p Fall planting is encouraged because the need for constant watering

Common Name	Scientific Name	Mature Height	Plant Spacing	Comments
Albelia	Abelia grandiflora	3-4 ft.	5 ft.	Also a prostrate form 2 feet high. Sun, semi-shade. Semi- evergreen.
Carolina Yellow Jessamine	Gelsemium sempervirens	low	3 ft.	Vine. Yellow, trum- pet-like flowers. Hardy, one of best vines. Evergreen. Native to Georgia.
Carpet Blue	Ajuga reptans	2-4 in.	3 ft.	Needs good drain- age, partial shade. Blue or white flow- ers. Evergreen.
Bearberry Cotoneaster	Cotoneaster dammeri	2-4 ft.	5 ft.	White flowers, red fruit. Sun. Evergreen
Ground Cover Cotoneaster	Cotoneaster salicifoluis 'Repens'	1-2 î t.	5 ft.	White flowers, red fruit. Sun. Ever- green.
Rock Cotoneaster	Cotoneaster horizontalis	1-2 ft.	5 ft.	Semi-evergreen. Sun.
Virginia Creeper	Parthenocissue quinquefolia	low	3 ft.	Red in fall. Vine. Deciduous. Native to Georgia.
Daylily	Hemerocallis spp.	2-3 ft.	2 ft.	Many flower colors. Full sun. Very hardy.
English Ivy	Hedera helix	low	3 ft.	Shade only. Climbs.

Table 6-5.3

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Plants shall be selected on the basis of species characteristics, site and soil conditions. planned use and maintenance of the area; time of year of planting, method of planting; and the needs and desires of the

Some perennial species are easily established and can be planted alone. Examples of these are Common Bermuda, Tall Fescue, and Weeping <u>10 lbs. PLS/acre</u> = 17.9 lbs/acre

Other perennials, such as Bahía Grass and Sericea should be planted with another perennial species. The additional species will provide quick cover and ample soil protection until the target perennial species ecome established. For example, Common seeding combinations are 1) Weeping Lovegrass with Sericea Lespedeza (scarified) and 2) Tall Fescue with Sericea

espedeza (unscarified). Plant selection may also include annual companion crops. Annual companion crops should be used only Broadcast plantings when the perennial species are not planted during their optimum planting period. A common mixture is soil to a depth of 4 to 6 inches; alleviate compaction; Brown Top Millet with Common Bermuda in mid-summer. Care should be taken in selecting companion crop species and seeding rates because annual crops plants; and allow for the anchoring of straw or hay will compete with perennial species for water, nutri- mulch if a disk is to be used. ents, and growing space. A high seeding rate of the

perennial species. Ryegrass shall not be used in any seeding mixtures containing perennial species due to its ability to out-compete desired species chosen for per- across the slope with appropriate hand tools to promanent perennial cover.

Seed Quality

The term "pure live seed" is used to express the quality of seed and is not shown on the label. Pure live seed, PLS, is expressed as a percentage of the seeds that are pure and will germinate. Information on per- be prepared by excavating holes, opening furrows, or cent germination and purity can be found on seed dibble planting. tags. PLS is determined by multiplying the percent of 2. For nursery stock plants, holes shall be large pure seed with the percent of germination; i.e.,

(PLS = % germination x % purity)

EXAMPLE Common bermuda seed

70% germination, 80% purity

PLS = 70% germination x 80% purity

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The percent of PLS helps you determine the amount of seed you need. If the seeding rate is 10 pounds PLS and the bulk seed is 56 % PLS, the bulk seeding rate is:

Lespedeza, are slow to become established and You would need to plant 17.9 lbs/acre to provide 10 lbs/acre of pure live seed.

> Seedbed Preparatio Seedbed preparation may not be required where hydraulic seeding and 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 incorporate lime and fertilizer; smooth and firm the soil; allow for the proper placement of seed, sprigs, or 2. Tillage may be done with any suitable equipmen

companion crop may prevent the establishment of 3. Tillage should be done on the contour where feasi-On slopes too steep for the safe operation of tillage equipment, the soil surface shall be pitted or trenched

vide two places 6 to 8 inches apart in which seed may lodge and germinate. Hydraulic seeding may also be

Innoculants

Individual Plant Where individual plants are to be set, the soil shall

enough to accommodate roots without crowding. 3. Where pine seedlings are to be planted, subso under the row 36 inches deep on the contour four to six months prior to planting. Subsolling should be done when the soil is dry, preferably in August or

All legume seed shall be inoculated with appropriate nitrogen-fixing bacteria. The innoculant shall be a

A mixing medium recommended by the manufacturer shall be used to bond the innoculant to the seed. For conventional seeding, use twice the amount of innoculant recommended by the manufacturer. For hydraulic seeding, four times the amount of innoculant recommended by the manufacturer shall be used. All inoculated seed shall be protected from the sun and high temperatures and shall be planted the same day inoculated. No inoculated seed shall remain in the hydroseeder longer than one hour. Planting

and used within the dates on the container

Hydraulic Seeding

Mix the seed (innoculated if needed), fertilizer, and wood cellulose or wood pulp fiber mulch with water and apply in a slurry uniformly over the area to be seeding. treated. Apply within one hour after the mixture is made.

Conventional Seeding

Seeding will be done on a freshly prepared and firmed seedbed. For broadcast 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. Cover the seed where ornamentals or other ground covers are plant lightly with 1/8 to 1/4 inch of soil for small seed and 1/2 ed. This is not appropriate for seeded areas. to 1 inch for large seed when using a cultipacker or other suitable equipment.

No-Till Seeding

No-till seeding is permissible into annual cover enough to allow adequate growth of the permanent (perennial) species. No-till seeding shall be done with appropriate no-till seeding equipment. The seed must be uniformly distributed and planted at the proper depth.

Individual Plants

Shrubs, vines and sprigs may be planted with appropriate planters or hand tools. Pine trees shall be planted manually in the subsoil furrow. Each plant shall be set in a manner that will avoid crowding the 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

Where individual holes are dug, fertilizer shall be placed in the bottom of the hole, two inches of soil shall be added and the plant shall be set in the hole.

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Mulch is required for all permanent vegetation applications. Mulch applied to seeded areas shall achieve 75% soil cover. Select the mulching materia from the following and apply as indicated: 1. Dry straw or dry hay of good quality and free of weed seeds can be used. Dry 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. Dry straw or dry hay shall be applied (at the rate indicated above) after hydraulic 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

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 ditches or dry waterways to prevent erosion. Bituminous treated roving shall be crops when planting is done following maturity of the applied within 24 hours after an area has been plant cover crop or if the temporary cover stand is sparse ed. 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. Th fibers shall contain a dye to allow visual metering and aid in uniform application during seeding.

Applying Mulci 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 equipment. other spreading equipment or by hand. Mulch shall be applied to cover 75% of the soil surface Wood cellulose or wood fiber mulch shall be applied uniformly with hydraulic seeding equipment.

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Anchor straw or hay mulch immediately after application by one of the following methods 1. Emulsified asphalt can be (a) spraved 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 special blower equipment. The combination of asphalt emulsion and water shall consist of a homogeneous mixture satisfactor for spraving. The mixture shall consist of 100 gallons

of grade SS-1h or CSS-1h emulsified asphalt and 100 gallons of water per ton of mulch. Care shall be taken at all times to protect state waters, the public, adjacent property, pavements, Lime Maintenance Application curbs, sidewalks, and all other structures from asphalt

2. Hay and straw mulch shall be pressed into the soil ducted to determine more accurate requirements if mmediately after the mulch is spread. A special "packer disk" or disk harrow with the disks set straight may be used. The disks may be smooth or serrated Use and Management and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disks shall be dull that the seeds are mature. Mow between Novembe enough to press the mulch into the ground without cutting it, leaving much of it in an erect position. Mulch

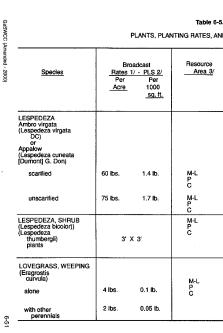
shall not be plowed into the soil. 3. Synthetic tackifiers or binders approved by GDOT shall be applied in conjunction with or immediately after the mulch is spread. Synthetic tackifiers shall be nixed and applied according to manufacturer's specifications. Refer to Tb - Tackifiers and Binders. 4. Rye or wheat can be included with Fall and Winte plantings to stabilize the mulch. They shall be applied at a rate of one-quarter to one-half bushel per acre. 5. Plastic mesh or netting with mesh no larger than one inch by one inch may be needed to anchor straw

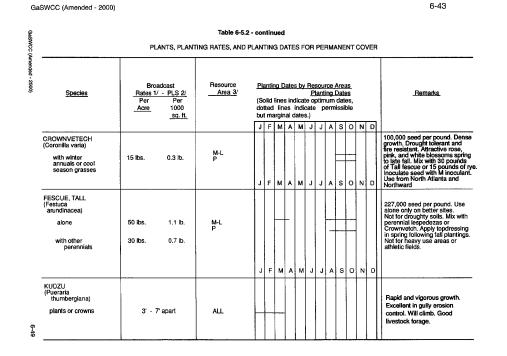
or hay mulch on unstable soils and concentrated flow areas. These materials shall be installed and anchored according to manufacturer's specifications Bedding Materia

Mulch is used as a bedding material to conserve moisture and control weeds in nurseries, ornamenta beds, around shrubs, and on bare areas on lawns.

<u>Material</u>	Depth
Grain straw	4" to 6"
Grass Hay	4" to 6"
Pine needles	3" to 5"
Wood waste	4" to 6"







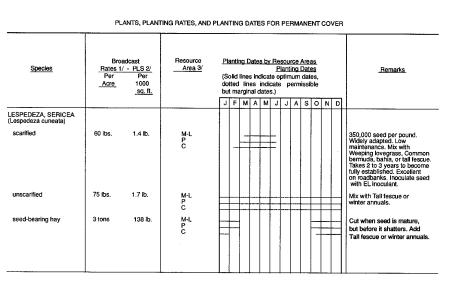


Table 6-5.2 - continue

DURABLE SHRUBS AND GROUND COVERS FOR PERMANENT COVER

Ground covers include a wide range of low-growing plants planted together in considerable numbers to cover large areas of the landscape. Ground covers grow slower than grasses. Weeds are likely to compete, especially the first year. Maintenance is needed to insure survival. These ground covers will not be used unless proper maintenance is planned. Maintain mulch at three-inch thickness until plants provide adequate cover.
Fall planting is encouraged because the need for constant watering is reduced and plants have time to establish

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Common Name	Scientific Name	Mature Height	Plant Spacing	Comments
rince of /ales Juniper	Juniperus horizontalis 'Prince of Wales'	8-10 in.	4 ft.	Feathery appearance.
argent Iniper	Juniperus chinensis 'Sargentii'	1-2 ft.	5 ft.	Full sun. Needs good drainage. Good winter color.
hore Juniper	Juniperus conferta	2-3 ft.	5 ft.	Emerald Sea or Blue Pacific cultivars are good.
riope	Liriope muscari	8-10 in.	3 ft.	
reeping riope	Liriope spicata	10-12 in.	1 ft.	Spreads by runners.
g Leaf eriwinkle	Vinca major	12-15 in.	4 ft.	Lilac flowers in spring. Semi-shade.
ommon eriwinkle	Vinca minor	5-6 in <i>.</i>	4 ft.	Lavender-blue flowers in spring. Semi-shade
herokee ose	Rosa laevigata	2 ft.	5 ft.	Rampant grower. Not for restricted spaces. State flower.
emoria Rose	Rosa weuchuriana	2 ft.	5 ft.	Rampant grower.
. Johnswort	Hypericum calycenum	8-12 in.	3 ft.	Semi-shade.
nthony aterer Spirea	Spirea burnalda	3-4 ft.	5 ft.	Sun.
nunberg pirea	Spirea thinbergii	3-4 ft.	5 ft.	Sun.
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Table 6-5.3 continued DURABLE SHRUBS AND GROUND COVERS FOR PERMANENT COVER

Table 6-5.4 TREES FOR EBOSION CONTROL

SITE	SOIL MATERIAL	COMMON SOILS	SPACING	PLANTING DATES 3/	
Borrow areas, graded areas, and spoil material			Lobiolly pine (Pinus taeda) Longleaf pine (Pinus palustris)	2/	M-L,P 12/1-3/15 C 12/1-3/1
	Loamy	Orangeburg, Tifton	Lobiolly pine Slash pine	2/	M-L,P 12/1-3/15 C 12/1-3/1
	Clay	Cecil, Faceville	Loblolly pine Slash pine Virginia pine (Pinus virginiana)	2/	M-L,P 12/1-3/15 C 12/1-3/1
Streambanks			Willows 4/ (Salix species)	2 ft x 2 ft	ALL 11/15 - 3/15

1/ Other trees and shrubs listed on Table 6-25.3 may be interplanted with the pines for improved wildlife benefits 2/ Type of Planting Tree Spacing No. of Trees

2722

1210

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Trees alone	4 ft. x 4 ft.
Trees in combination	6 ft. x 6 ft.

with grasses and/ or other plant

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(See Figure 6-4.1). 4/ Fertilization of companion crop is ample for this species.

Irrigation will be applied at a rate that will not cause

Topdressing will be applied on all temporary and permanent (perennial) species planted alone or in mixtures with other species. Recommended rates of

application are listed in Table 6-5.1 Second Year and Maintenance Fertilization Second year fertilizer rates and maintenance ferti

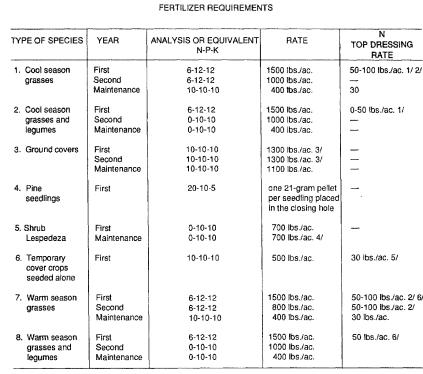
izer rates are listed in Table 6-5.1. Apply one ton of agricultural lime every 4 to 6 year

or as indicated by soil tests. Soil tests can be con-

Mow Sericea lespedeza only after frost to ensure and March. Bermudagrass, Bahiagrass and Tall Fescue may be mowed as desired. Maintain at least 6 inches of top

growth under any use and management. Moderate use of top growth is beneficial after establishment. Exclude traffic until the plants are well established Because of the quail nesting season, mowing should

not take place between May and September.

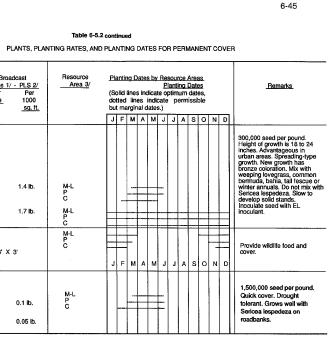


1/ Apply in spring following seeding.

2/ Apply in split applications when high rates are used 3/ Apply in 3 split applications. Apply when plants are pruned

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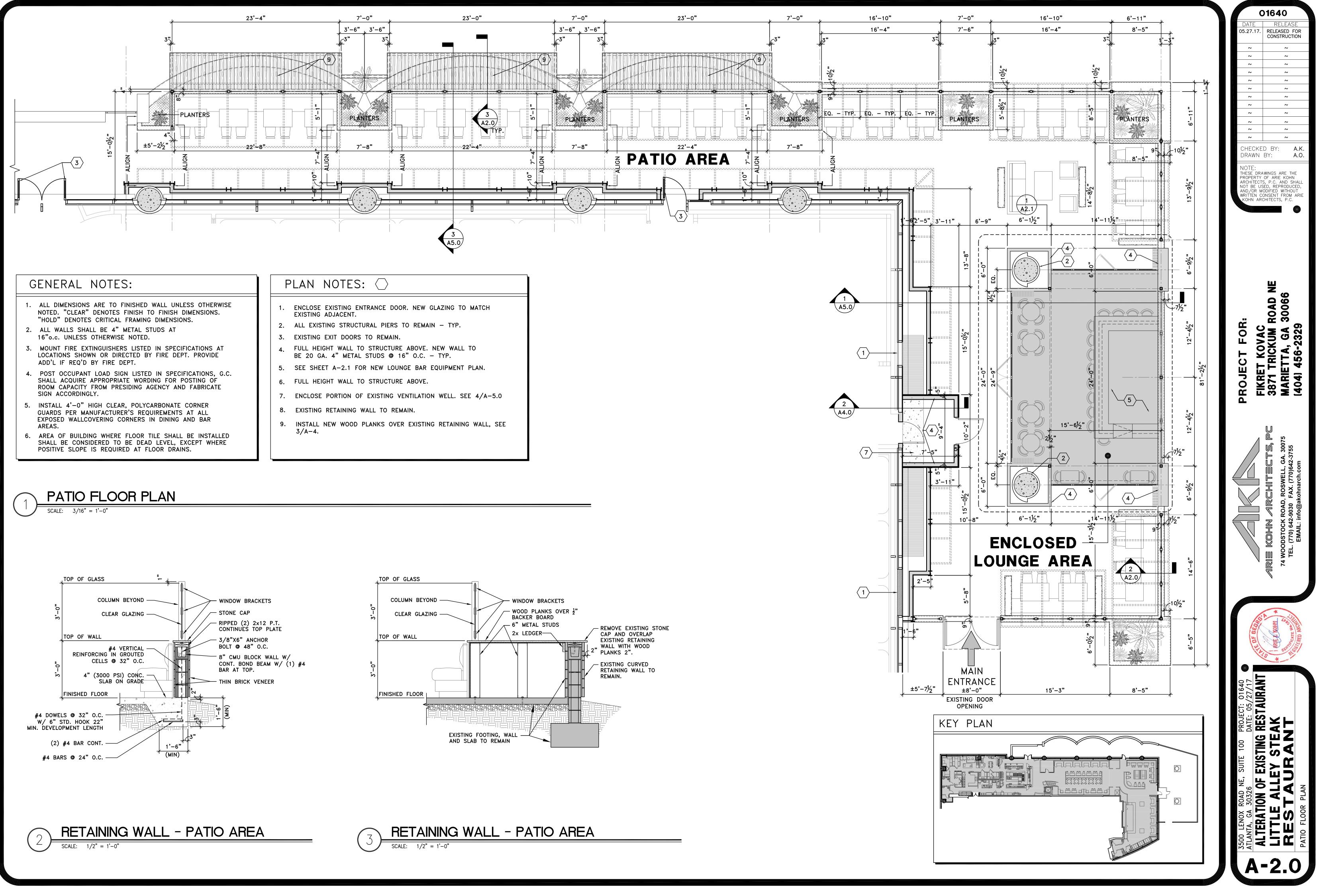
5/ Apply to grass species only 6/ Apply when plants grow to a height of 2 to 4 inches.

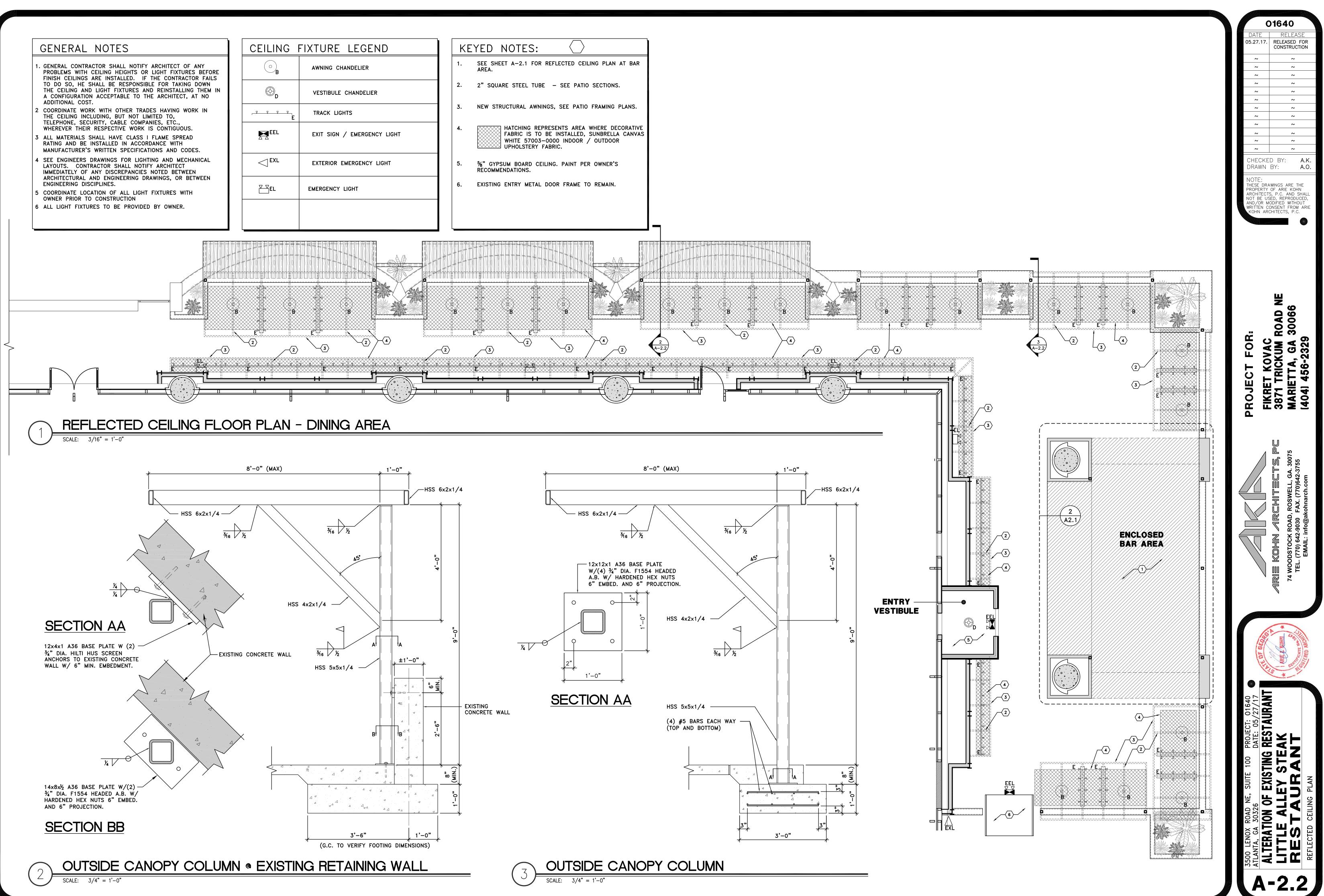


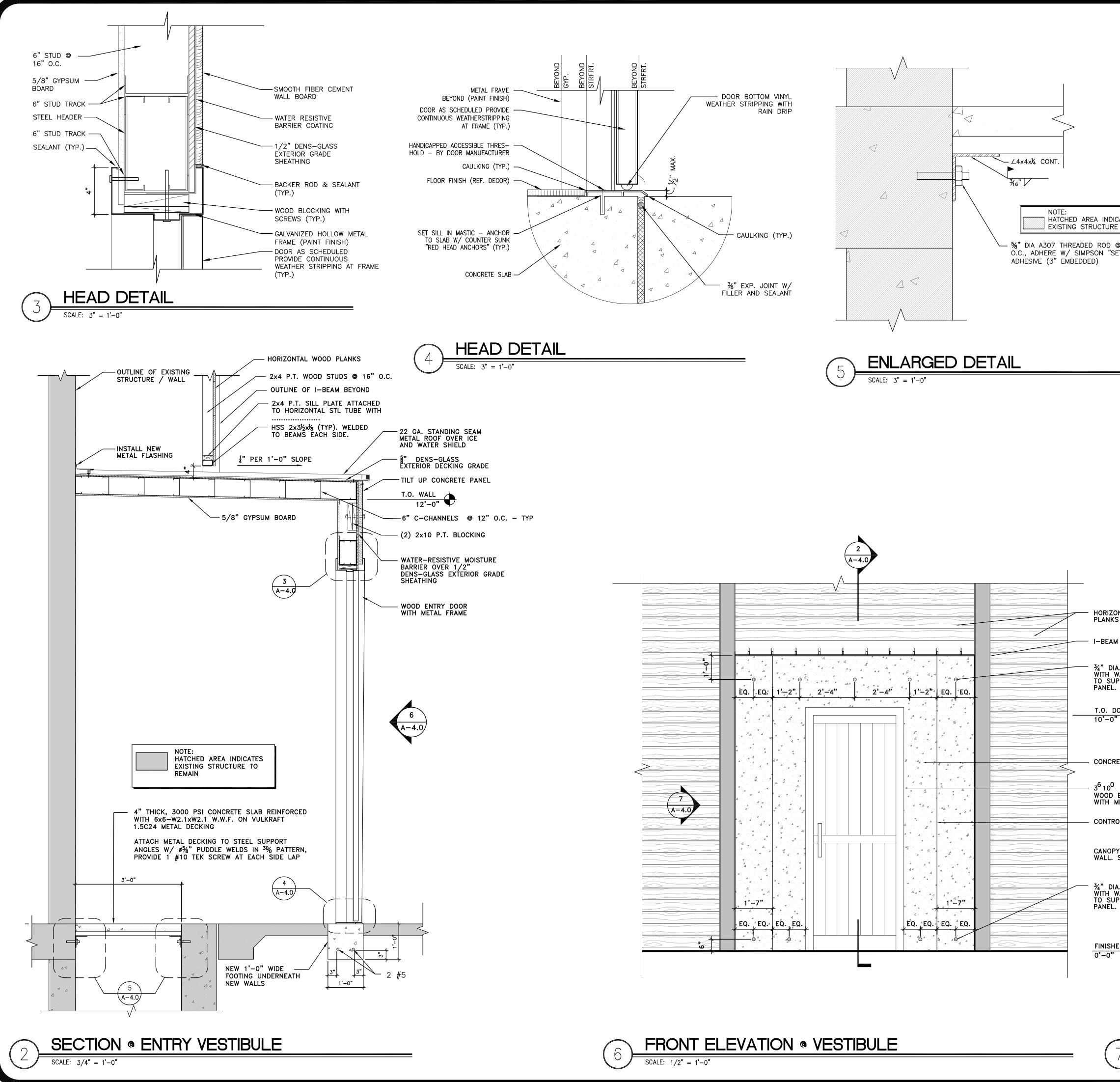
Species		idcast - PLS 2/ Per 1000 _sq. ft.	Resource Area 3/	(S do bu	Planting Dates by Resource Areas. Planting Dates (Solid lines indicate optimum dates, dotted lines indicate permissible but marginal dates.)					Remarks.						
MAIDENCANE				J	F	M	A	М	J	J	A	S	0	N	D	-
(Panicum hemitomon)																For very wet sites. May clog channels. Dig sprigs from local sources. Use along river banks and shorelines.
sprigs	2'x 3'sp	acing	ALL		-				L							
PANICGRASS, ATLANTIC COASTAL (Panicum amarum var. amarulum))	20 lbs.	0.5 lb.	P C													Grows well on coastal sand dunes, borrow areas, and gravel pits. Provides winter cover for wildlife. Mix with Sericea lespedeza except
				J	F	м	A	м	J	J	A	s	0	N	D	on sand dunes.
REED CANARY GRASS (Phalaris arundinacea)	i															
alone	50 lbs.	1.1 lb.	M-L									_				Grows similar to Tall fescue.
with other perennials	30 lbs.	0.7 lb.		J	F	м	A	м	J	J	 A	s	0	N	D	
SUNFLOWER, 'AZTEC'	10 lbs.	0.2 lb.	M-L				L_									
MAXIMILLIAN (Helianthus maximiliani)			P C				_		1							227,000 seed per pound. Mix with Weeping lovegrass or other low-growing grasses of legumes.
				J	F	м	A	м	J	J	A	s	0	N	D	legumes.
1/ Reduce seeding rates by 50% w 2/ PLS is an abbreviation for Pure 3/ M-L represents to Mountain; Blu P represents the Southern Pied C represents the Southern Coas See Figure 6-4.1.	e Ridge; and Rid nont MIRA	ges and Valleys N	ILRAs.	twoods	MLF	As.										

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C E O R G K E O R G
LITTLE ALLEY STEAK B500 LENOX ROAD NE ATLANTA, GEORGIA
CLIENT: LITTLE ALLEY STEAK 3871 TRICKUM ROAD MARRIETTA, GEORGIA 30066 PHONE: (404) 456-2329
REVISION HISTORY // // // // // // // // 3 07/31/2017 2 03/16/2017
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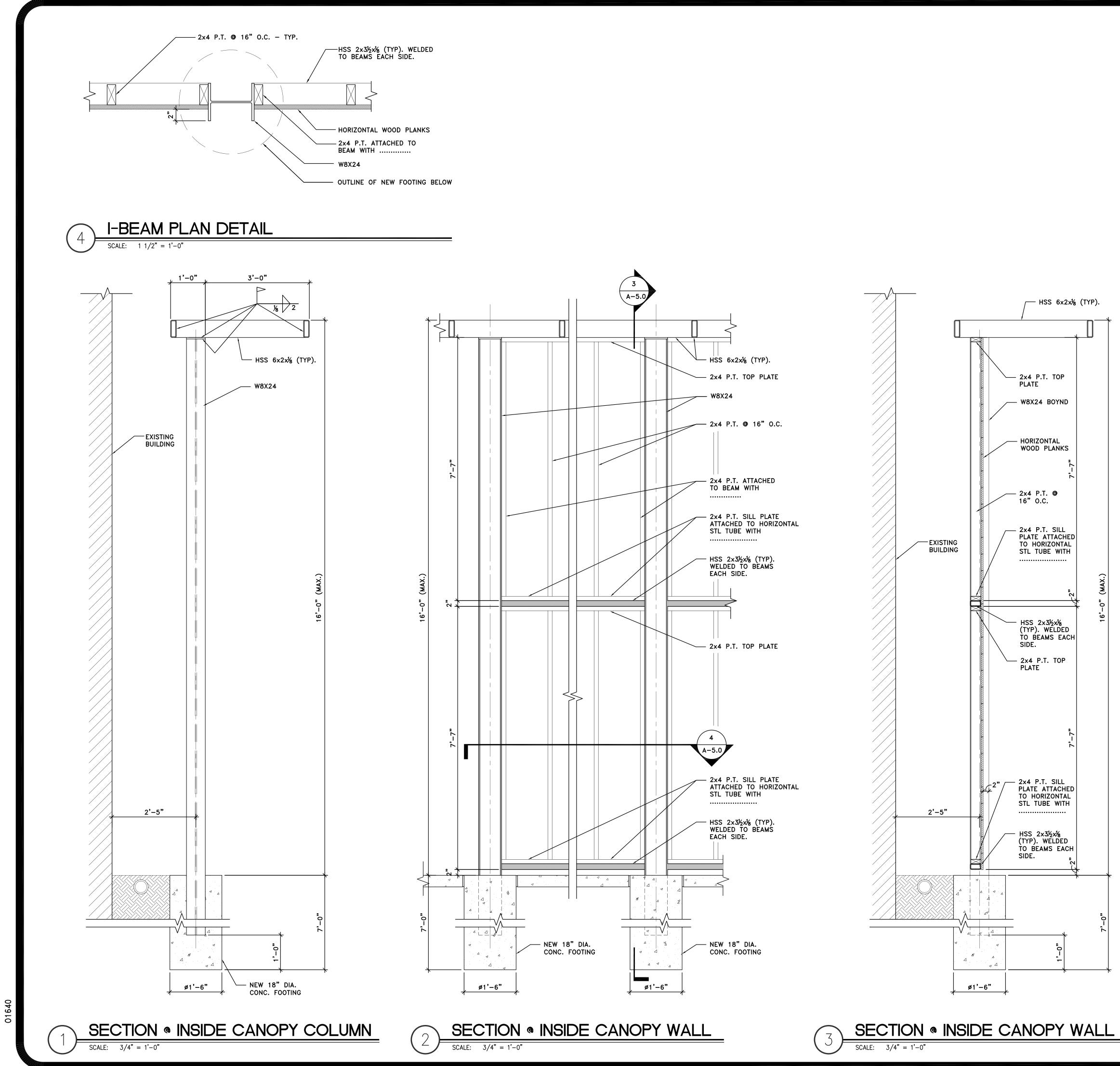
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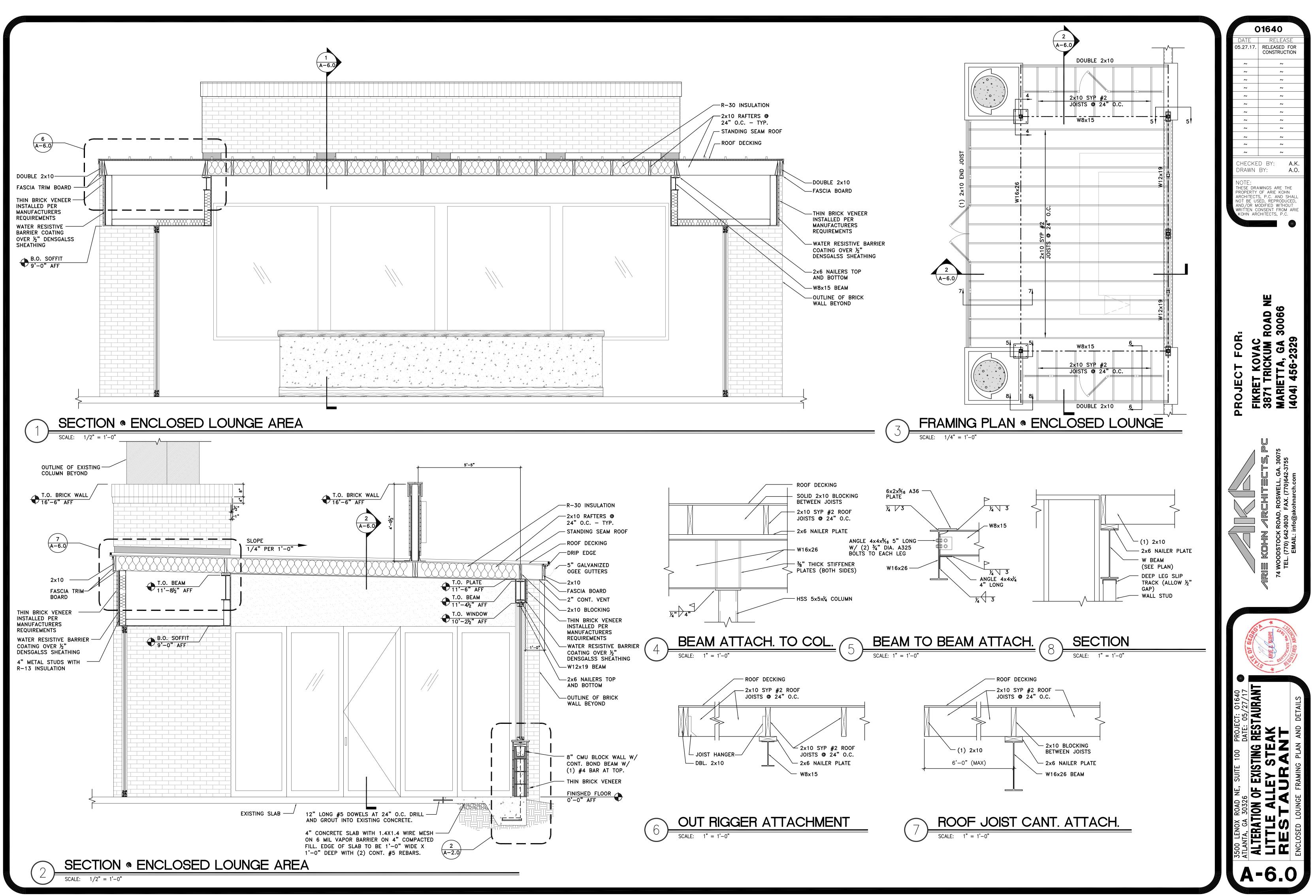




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MECHANICAL NOTES:

GENERAL:

- 1. "VERIFY" SHALL MEAN CHECK CONDITIONS ON SITE AGAINST DRAWINGS AND SPECIFICATION AND ADJUST WORK TO MATCH EXISTING. OBTAIN RULING FROM OWNER ON ANY ITEMS REQUIRING CLARIFICATION 2. PROVIDE A COMPLETE FUNCTIONAL HVAC SYSTEM WITH ALL ACCESSORIES REQUIRED FOR PROPER
- OPERATION ALL IN ACCORDANCE WITH THE APPLICABLE STATE AND LOCAL AUTHORITY CODES, LAWS & ORDINANCES AND STATE AND LOCAL AUTHORITY ACCESSIBILITY LAWS AND ORDINANCES. THE SYSTEMS SHALL BE FREE FROM ANY OBJECTIONABLE NOISES AND VIBRATIONS.
- 4. ALL MECHANICAL WORK & EQUIPMENT SHALL CONFORM TO THE CURRENT REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION. MECHANICAL WORK SHALL COMPLY WITH THE CURRENT EDITION OF THE INTERNATIONAL MECHANICAL CODE, STATE & LOCAL AMENDMENTS, NFPA-54, NFPA-90A, SMACNA & ASHRAE GUIDELINES.
- 5. CONTRACTOR SHALL SECURE ALL PERMITS, INSPECTION CERTIFICATES, AUTHORITY APPROVALS AND PAY ALL RELATED FEES AND CHARGES. 6. ALL NEW MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR
- AFTER ACCEPTANCE BY THE OWNER. COMPRESSORS SHALL HAVE AN EXTENDED 4 YEAR COMPRESSOR (ONLY) WARRANTY.
- 7. THE CONTRACTOR SHALL CONFIRM AND ENSURE THAT ALL MECHANICAL WORK CONFORMS TO THE CURRENT REQUIREMENTS OF THE LOCAL BUILDING INSPECTION DEPARTMENT.
- 8. ALL MECHANICAL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS.
- 9. THE MECHANICAL (SUB)CONTRACTOR SHALL COORDINATE THE SPACE REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT AND DUCTWORK WITH THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ORDERING AND FABRICATION OF STRUCTURAL ELEMENTS, INCLUDING ROOF TRUSSES, TO SUIT THE PROPOSED ROUTING OF THE DUCTWORK AND LOCATION OF EQUIPMENT. PROVIDE ADEQUATE CLEARANCES AROUND, AND ACCESS TO, ALL EQUIPMENT FOR MAINTENANCE.
- 10. WALL, FLOOR OR CEILING SURFACES DISTURBED DURING THE COURSE OF THE MECHANICAL WORK SHALL BE REPAIRED TO MATCH NEW &/OR EXISTING SURROUNDING CONDITIONS.
- 11. REFER TO ARCHITECT'S REFLECTED CEILING PLANS FOR LOCATION OF LIGHTS AND OTHER CEILING
- MOUNTED DEVICES. COORDINATE AIR DISTRIBUTION DEVICES WITH THIS REFLECTED CEILING PLAN. 12. COORDINATE THE INSTALLATION OF THE DUCTWORK, EQUIPMENT, PIPING, ETC., TO FIT WITHIN THE SPACE ALLOWED BY THE ARCHITECTURAL & STRUCTURAL CONDITIONS. CUTTING OR ALTERING ANY STRUCTURAL
- MEMBER SHALL NOT BE PERMITTED. 13. DO NOT SCALE DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL SIZES, MATERIALS, TEMPERATURES AND
- PRESSURES BEFORE ORDERING OR FABRICATION OF ANY MATERIALS. 14. SOLVENTS, PAINTS, ADHESIVES, SEALANTS AND OTHER MATERIALS THAT EMIT POLLUTANTS THAT COULD CAUSE IRRITATION OR HEALTH PROBLEMS FOR OCCUPANTS SHALL NOT BE USED UNLESS THE WORK IS DONE AFTER-HOURS AND ADEQUATE VENTILATION IS PROVIDED DURING CONSTRUCTION AND AS LONG AFTER WARDS AS REQUIRED TO KEEP THE POLLUTANTS WITHIN EPA/OSHA APPROVED LIMITS.
- 15. PIPING, CONDUITS, CABLES, ETC. SHALL BE RUN NEATLY, PARALLEL TO EXISTING AND NEW PIPING AND TO BUILDING (WALLS, FLOOR).
- 16. THE SCHEDULED "BASIS OF DESIGN" IS INTENDED TO INDICATE THE PERFORMANCE REQUIRED FOR THE PARTICULAR ITEM OF EQUIPMENT. SUBSTITUTIONS WILL BE PERMITTED. SUBSTITUTIONS SHALL BE DEEMED TO INCLUDE ALL ASSOCIATED CHANGES TO BUILDING, STRUCTURE & OTHER SERVICES WITHOUT ANY ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT SUBSTITUTIONS SHALL FIT INTO THE SPACE AVAILABLE WITH PROVISIONS FOR PROPER ACCESS, MAINTENANCE, PARTS REPLACEMENT, WEIGHT ALLOWANCE & FOR COORDINATION WITH OTHER TRADES INCLUDING ELECTRICAL, PLUMBING, STRUCTURAL AND ARCHITECTURAL).
- 17. MANUFACTURER CATALOG SHOP DRAWINGS SUBMITTED SHALL BE MARKED TO INDICATE PROJECT SPECIFIC INFORMATION. FULL MODEL NUMBERS; IDENTIFY AND HIGHLIGHT SCHEDULED ITEM CAPACITIES; HIGHLIGHT INCLUDED OPTIONS AND EDIT OUT THOSE THAT ARE NOT PROVIDED; CLEARLY IDENTIFY DEVIATIONS FROM SPECIFIED AND SCHEDULED CAPACITIES.
- 18. ALL EQUIPMENT PROVIDED SHALL BE COMMERCIALLY AVAILABLE PRODUCTS SPECIFICALLY MADE FOR THE APPLICATION FOR WHICH IT IS INTENDED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION AND START-UP INSTRUCTIONS.
- 19. A TECHNICIAN, FACTORY TRAINED AND CERTIFIED BY THE MANUFACTURER OF THE HVAC EQUIPMENT PROVIDED SHALL PERFORM PRE START-UP CHECKS AND SHALL SUBMIT A REPORT TO THE OWNER ON EACH SPLIT SYSTEM. THIS REPORT SHALL INCLUDE CERTIFICATION, IN WRITING, THAT EQUIPMENT IS CORRECTLY INSTALLED, INCLUDING PROPER DRAINAGE FROM DRAIN PANS AND SEALING OF ALL AIR LEAKS, ELECTRICAL CONNECTIONS AND TERMINALS TIGHTNESS, INDOOR FILTER ARE CLEAN, IN PLACE AND EASILY REPLACEABLE, FANS AND COMPRESSORS ROTATE CORRECTLY, ELECTRICAL AMP DRAWS SHALL BE RECORDED AND CERTIFIED WITHIN MANUFACTURERS RECOMMENDED LIMITS, REFRIGERANT SUCTION AND DISCHARGE PRESSURES FOR ALL CIRCUITS WITH STATEMENT THAT SYSTEMS ARE CORRECTLY CHARGED

ELECTRICAL/CONTROLS:

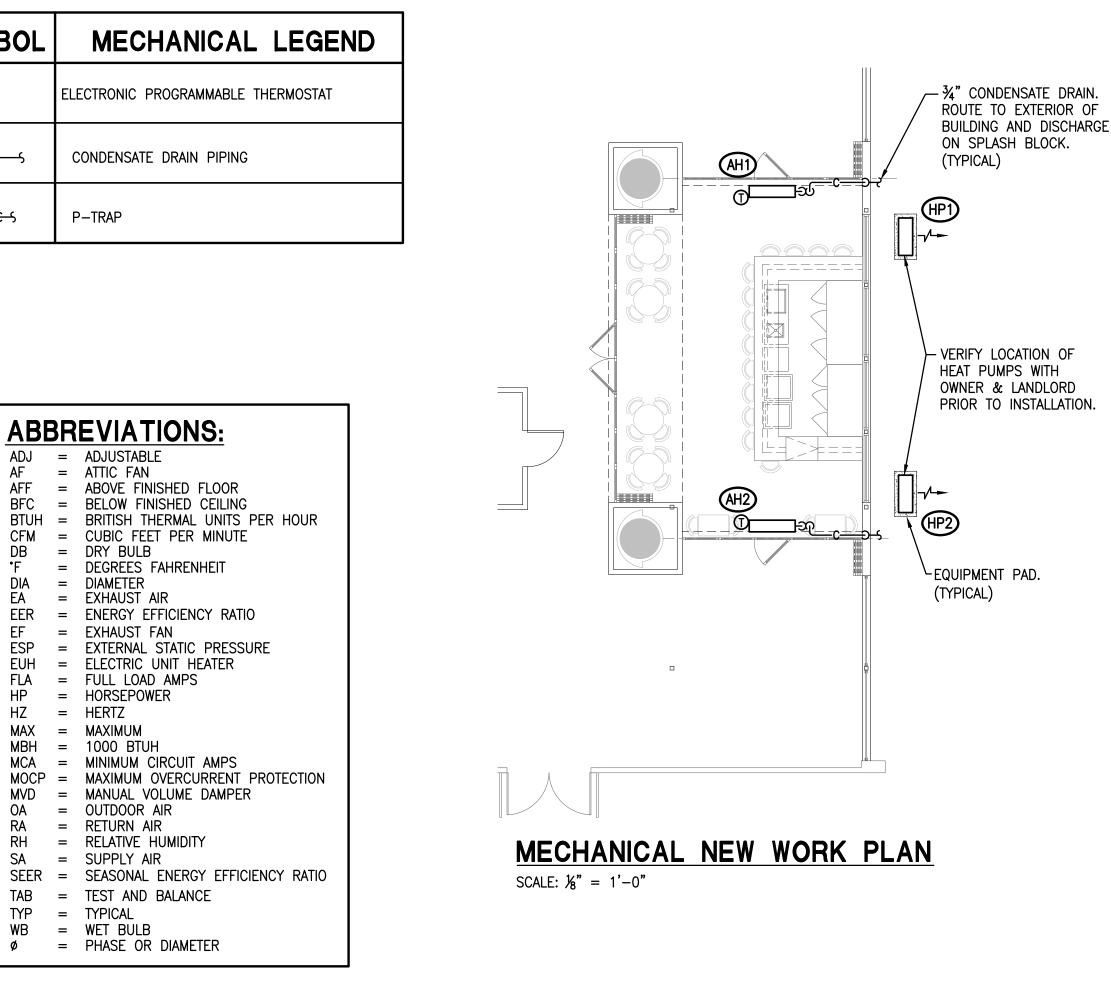
- 20. THE CONTRACTOR SHALL VERIFY THE ELECTRICAL SUPPLY VOLTAGES AND PHASES ON THE ELECTRICAL PLANS AND ON SITE BEFORE ORDERING ANY ELECTRICALLY OPERATED EQUIPMENT. ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE PROVIDED & INSTALLED WITH SUITABLY PROTECTED AND RATED DISCONNECT SWITCHES.
- 21. MOUNT THERMOSTATS AS INDICATED ON PLANS 48" A.F.F. UNLESS OTHERWISE NOTED OR AS REQUIRED FOR ACCESSIBILITY CODE COMPLIANCE. COORDINATE LOCATION OF THERMOSTATS WITH CABINETRY AND OTHER SERVICES. THE THERMOSTATS SHALL NOT BE INSTALLED ON OUTSIDE WALLS, IN THE DIRECT AIR STREAM FROM ANY DIFFUSER OR WHERE IT MAY BE INFLUENCED BY HEAT GIVEN OFF FROM EQUIPMENT.
- 22. ALL CONTROL WIRING & TRANSFORMERS SHALL BE SUPPLIED UNDER THE MECHANICAL CONTRACT. ALL MECHANICAL CONTROLS SHALL BE SUPPLIED BY THE MECHANICAL CONTRACTOR.

PIPING:

- 23. REFRIGERANT PIPING SHALL BE HARD-DRAWN TYPE K SEAMLESS COPPER TUBING, ASTM B88-74. FITTINGS SHALL BE WROUGHT, ANSI B16-22-63, COPPER WITH A WORKING PRESSURE OF NOT LESS THAN 300 PSIG. REFRIGERANT PIPING SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURERS RECOMMENDATIONS. CONTRACTOR SHALL PROVIDE WRITTEN CERTIFICATION FORM EQUIPMENT MANUFACTURER AS TO THE CORRECTNESS OF THE LINE SIZES.
- 24. INSULATE ALL SUCTION LINES AND FITTINGS WITH PRE-FORMED ARMAFLEX AP INSULATION, 1" THICK. USE ARMAFLEX 520 ADHESIVE ON ALL JOINTS. ALL INSULATION MATERIALS SHALL HAVE A FLAME SPREAD RATING OF 25 OR LESS, SMOKE DEVELOPED RATING OF 50 OR LESS WHEN TESTED PER ASTM E 84 & THERMAL CONDUCTIVITY OF NO GREATER THAN 0.27 (BTU*IN)/(HR*FT2* F) PER ASTM C
- 25. PROVIDE PIPE SLEEVES FOR REFRIGERANT AND CONDENSATE LINES PENETRATING EXTERIOR WALLS. SEAL VOIDS WATER-TIGHT AROUND PIPING WITH A WEATHER TIGHT PERMANENT NON-SHRINKING SEALANT.
- 26. CONDENSATE DRAIN PIPING AND FITTINGS SHALL BE PVC. THE CONDENSATE DRAIN SHALL BE THE SAME SIZE AS THE UNIT DRAIN CONNECTION BUT SHALL NOT BE LESS THAN 3/4" DIAMETER PIPE. 27. ENSURE PROPER CONDENSATE REMOVAL FROM ALL AIR HANDLING UNIT DRAINS. INSTALL WITHOUT ANY
- SAGGING TO ENSURE COMPLETE DRAINAGE. SLOPE CONDENSATE DRAIN PIPING MIN. 1/8" PER FOOT TO EXTERIOR OF THE BUILDING .

OWNERS MANUAL:

- 28. FOUR COPIES OF AN OWNERS MANUAL SHALL BE FORWARDED TO THE OWNER WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTABLE. OWNERS MANUAL SHALL INCLUDE AS MINIMUM: a. DATA STATING EQUIPMENT SIZE AND ALL INSTALLED OPTIONS FOR EACH ITEM OF MECHANICAL
- EQUIPMENT PROVIDED. b. COPIES OF THE INSTALLATION & PERFORMANCE REPORT BY THE REPRESENTATIVE OF THE
- SPLIT SYSTEMS PROVIDED. c. COPIES OF THE TEST & BALANCE REPORT. NOTATIONS OF CORRECTIVE ACTION SHALL BE INCLUDED.
- d. COPIES OF THE MECHANICAL SUBCONTRACTOR'S FIRST YEAR INSTALLATION AND EQUIPMENT WARRANTIES. NOTATION SHALL BE INCLUDED TO SHOW THE EXPIRATION OF THE FIRST YEAR PARTS & LABOR GUARANTEE, & OF THE EXTENDED 4-YEAR COMPRESSOR (ONLY) WARRANTY.
- e. OPERATION AND MAINTENANCE MANUALS FOR EACH ITEM OF EQUIPMENT REQUIRING MAINTENANCE, EXCEPT FOR EQUIPMENT NOT FURNISHED AS PART OF THE PROJECT. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED
- NAMES AND ADDRESS OF AT LEAST ONE SERVICE AGENCY.
- HVAC CONTROLS SYSTEMS MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRING а. DIAGRAMS, SCHEMATICS AND CONTROL SEQUENCE DIAGRAM. DESIRED OR FIELD DETERMINED SET POINTS SHALL BE PERMANENTLY RECORDED ON CONTROL DRAWINGS AT CONTROL DEVICES OR FOR DIGITAL CONTROL SYSTEMS. IN THE PROGRAMMING COMMENTS.



DUCTLESS SPLIT SYSTEM (HEAT PUMP) SCHEDULE												
MARK	REFRIGERANT	CFM	SEER	HSPF	TOTAL COOLING BTUH	TOTAL HEATING BTUH	VOLTS/PH/HZ	MCA	моср	INDOOR UNIT	OUTDOOR UNIT	NOTES
AH1/HP1	R-410A	635	14.0	9.3	34,200	38,000	208/1/60	25	40	РКА-АЗ6КА4	PUZ-A36NH4	1,2
AH2/HP2	R-410A	635	14.0	9.3	34,200	38,000	208/1/60	25	40	PKA-A36KA4	PUZ-A36NH4	1,2
	N=410A	000	14.0	9.0	34,200	56,000	200/1/00	20	40		F02-A30NH4	

<u>NOTES:</u>

PROVIDE WITH CONDENSATE PUMP, HEAT PUMP MOUNTING PAD, THERMOSTAT & LOW AMBIENT KIT.

MAXIMUM REFRIGERANT LINE LENGHT OF 165'. SELECTIONS ARE BASED ON PRODUCTS BY MITSUBISHI

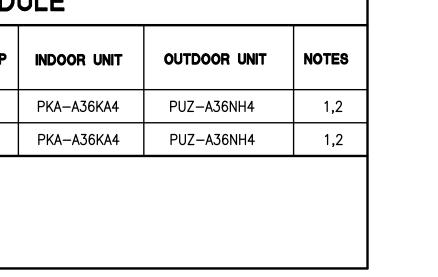
EQUAL PRODUCTS: CARRIER, FRIEDRICH & TRANE

OUTSIDE AIR REQUIREMENTS

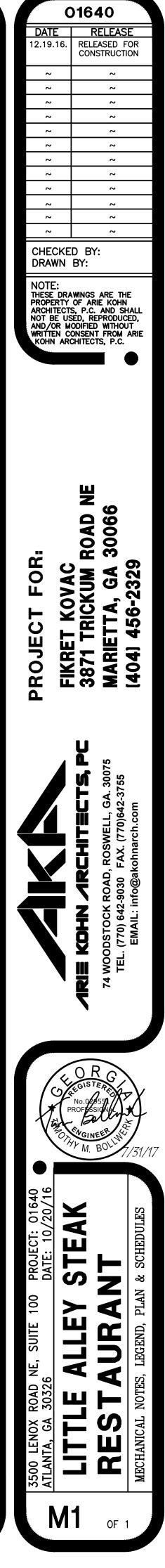
THE HVAC SYSTEM OUTDOOR AIR QUANTITY IN THE BUILDING MEETS THE REQUIREMENTS OF THE 2012 INTERNATIONAL MECHANICAL CODE

SECTION 402.2 OF THE 2012 INTERNATIONAL MECHANICAL CODE REQUIRES MINIMUM OPENABLE AREA OF 4.0% OF THE FLOOR AREA BEING VENTILATED. BAR AREA BEING VENTILATED: 578.5 SQ. FT. x 0.04 = 23.14 SQ. FT. REQUIRED OPENABLE AREA PROVIDED BY DOORS & WINDOWS = 84 SQ. FT. (14.5%)

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Project Information			~
Energy Code: Project Title:	90.1 (2007) Standard Little Alley Steak Restaurant		~
ocation:	Atlanta, Georgia		
Climate Zone: Project Type:	3a Alteration		~
Construction Site:	Owner/Agent:	Designer/Contractor:	CHECKED DRAWN B
3500 Lennox Rd Suite 100		Tim Bollwerk Marshall & Bollwerk Engineering,	
Atlanta, GA 30326		Inc. 8681 Highway 92	NOTE: THESE DRAW
		suite 400 Woodstock, GA 30189	PROPERTY O ARCHITECTS,
			NOT BE USE AND/OR MO
Mechanical Systems List			WRITTEN CON
Quantity System Type & De	escription		
Cooling Mode: Capac Proposed Efficienc	mp sity = 38 kBtu/h, y = 9.30 HSPF, Required Efficiency = 7.70 HSPF		
Fan System: None			
SYSTEM COMPLIAN	ICE REQUIRED.		
1 IWH Electric Instantaneous No minimum efficie	s Water Heater, Capacity: 0 gallons ncy requirement applies		
SWH COMPLIANCE	REQUIRED.		
plans, specifications, and othe lesigned to meet the 90.1 (20 nandatory requirements listed	roposed mechanical alteration project represer r calculations submitted with this permit applic 107) Standard requirements in COM <i>check</i> Versic d in the Inspection Checklist.	1	-
<i>Tim Bollwerk</i> Name - Title	/in Ballm Signature	$\frac{4/6/17}{\text{Date}}$	FOR
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PLUMBING NOTES:

GENERAL:

- 1. VERIFY" SHALL MEAN CHECK CONDITIONS ON SITE AGAINST DRAWINGS AND SPECIFICATION AND ADJUST WORK TO MATCH EXISTING. OBTAIN RULING FROM OWNER ON ANY ITEMS REQUIRING CLARIFICATION
- 2. THE NEW PLUMBING SYSTEMS (DOMESTIC COLD & HOT WATER, WASTE & VENT AND GAS) SHALL BE INSTALLED COMPLETE AND IN ACCORDANCE WITH ALL APPLICABLE CODES, LAWS AND REGULATIONS, LOCAL HEALTH DEPARTMENT STANDARDS AND THE OWNER'S REQUIREMENTS.
- 3. THE SYSTEMS SHALL BE FREE OF ANY NOISE AND VIBRATIONS. 4. THE PLUMBING WORK SHALL COMPLY WITH THE 2012 INTERNATIONAL PLUMBING & GAS CODES, GA STATE AMENDMENTS, THE GEORGIA STATE ACCESSIBILITY CODE & ALL APPLICABLE SECTIONS OF NFPA AND ANSI AND THE GUIDELINES OF ASPE.
- 5. THE CONTRACTOR SHALL CONFIRM AND ENSURE THAT ALL PLUMBING WORK CONFORMS TO THE CURRENT REQUIREMENTS OF THE LOCAL BUILDING INSPECTION DEPARTMENT.
- 6. ALL PLUMBING EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND **RECOMMENDATIONS.**
- 7. ALL FIXTURES AND EQUIPMENT SHALL BE INSTALLED LEVEL, PLUMB AND RUN PARALLEL OR PERPENDICULAR TO THE BUILDING WALLS UNLESS INDICATED OTHERWISE.
- 8. CONTRACTOR SHALL SECURE ALL PERMITS, INSPECTION CERTIFICATES, AUTHORITY APPROVALS AND PAY ALL RELATED FEES AND CHARGES.
- 9. ALL NEW PLUMBING EQUIPMENT AND SYSTEMS SHALL BE GUARANTEED FOR A
- PERIOD OF ONE YEAR AFTER ACCEPTANCE BY THE OWNER. 10. IT IS THE INTENT OF THESE SPECIFICATIONS TO PROVIDE FINISHED WORK, TESTED AND READY FOR OPERATION. ANY APPARATUS, APPLIANCE OR MATERIAL WHICH MAY BE NECESSARY TO MAKE THE WORK COMPLETE AND FULLY OPERATIONAL. EVEN IF NOT EXPLICITLY STATED. SHALL BE PROVIDED
- FOR BY THE CONTRACTOR. 11. ALL PLUMBING WORK SHALL BE INSTALLED SO AS TO AVOID INTERFERENCE
- WITH ALL ELECTRICAL AND MECHANICAL WORK AND STRUCTURAL MEMBERS. 12. THE LOCATIONS OF UNDERGROUND UTILITIES (DOMESTIC WATER PIPING,
- SANITARY WASTE & VENT PIPING, ELECTRIC CONDUITS, ETC) IN THE AREA OF WORK SHALL BE VERIFIED PRIOR TO SAW-CUTTING THE SLAB AND TRENCHING. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY & ALL DAMAGES WHICH MIGHT OCCUR BY FAILURE OF EXACTLY LOCATING & PRESERVING ANY & ALL UNDERGROUND UTILITIES.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND REPAIRING ALL AREAS WHICH WERE DAMAGED BY HIS OPERATION.
- 14. EXACT LOCATIONS & ROUGH-IN REQUIREMENTS FOR ALL FIXTURES & EQUIPMENT SHALL BE DETERMINED FORM ARCHITECTURAL DRAWINGS. LARGE SCALE ARCHITECTURAL DETAILS & APPROVED MANUFACTURER'S SHOP DRAWINGS. PARTICULAR ATTENTION SHALL BE DIRECTED TO FIXTURES OR EQUIPMENT FURNISHED BY OTHER TRADES.
- 15. PIPING IS SHOWN IN ITS GENERAL LOCATION (UNLESS DIMENSIONED). EXACT LOCATIONS SHALL BE DETERMINED BY JOB CONDITIONS. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF HIS WORK WITH THAT OF OTHER TRADES & ARRANGE PIPING TO CLEAR STRUCTURAL MEMBERS & DUCTWORK. DO NOT RESTRICT ACCESS TO ANY EQUIPMENT.

WASTE & VENT PIPING:

- 16. ALL WASTE & VENT PIPING & FITTINGS OUTSIDE THE BUILDING, ABOVE & BELOW GRADE, SHALL BE SOLID WALL SCHEDULE 40 PVC DWV AS MANUFACTURED BY CHARLOTTE PIPE & MEET ASTM D-1784, D-1785 & D-2665.
- 17. FOAM CORE &/OR CELLULAR CORE PVC PIPING SHALL NOT BE ALLOWED. 18. PVC PIPING OUTSIDE THE BUILDING, BELOW GRADE, SHALL BE TYPE PVC SDR-35 MEETING ASTM-D3034.
- 19. PVC-DWV FITTINGS FOR PIPING SHALL BE SOLVENT WELD TYPE INSIDE & UNDERSLAB MEETING ASTM D-1784, D-2665 & D-3311. CEMENTS SHALL MEET ASTM D-2565 & PRIMER MEETING ASTM F-656. CURE TIME MUST COMPLY WITH MANUFACTURER'S RECOMMENDATIONS. EXTERIOR PIPING JOINTS SHALL BE NEOPRENE PUSH-ON TYPE.
- 20. ALL WASTE & VENT PIPING INSIDE THE BUILDING SHALL BE STANDARD WEIGHT CAST IRON WITH "NO-HUB" FITTINGS.
- 21. ELEVATIONS OF THE EXISTING SANITARY PIPING SHOWN SHALL BE VERIFIED ON THE JOB BEFORE INSTALLING ANY PIPE. 22. REFER TO ARCHITECTURAL FINISH SCHEDULE & ELEVATIONS FOR DETAILS OF
- FLOORS WHERE FLOOR DRAINS & CLEAN-OUTS ARE LOCATED. 23. ALL CLEAN-OUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE
- CONTRACTOR SHALL COORDINATE ALL CLEAN-OUT LOCATIONS WITH EQUIPMENT, CABINETS, ETC. AND ARCHITECT PRIOR TO INSTALLATION.

DOMESTIC WATER PIPING:

- 24. DOMESTIC WATER PIPING BELOW GRADE SHALL BE TYPE "K" COPPER TUBING, WITH NO PIPE JOINTS BELOW GRADE. UNDERGROUND PIPES SHALL BE INSIDE A PVC PIPE LINER AND INSTALL A UNION ABOVE GRADE AT EACH END OF THE BURIED PIPE. UNDERGROUND PIPE SHALL BE DRAWN EXCEPT ANNEALED (SOFT) PIPE MAY BE USED WHERE INDICATED.
- 25. DOMESTIC (HOT & COLD) WATER PIPING ABOVE GRADE SHALL BE TYPE "L" COPPER TUBING. FITTINGS SHALL BE WROUGHT COPPER WITH LEAD FREE SOLDER. PIPING SHALL NOT TOUCH FERROUS MATERIALS. FIRMLY SUPPORT PIPING USING NON FERROUS PIPE SUPPORTS.
- 26. SHUT-OFF VALVES SHALL BE FULL PORT, THREADED OR SOLDER-END TYPE, RATED AT NOT LESS THAN 200 LB. NON-SHOCK COLD WATER WORKING PRESSURE. PROVIDE VALVES IN EACH BRANCH LINE WHETHER SHOWN ON THE DRAWINGS OR NOT.
- 27. PROVIDE A BALL-COCK STOP ON WATER SUPPLY IN BRANCH PIPE TO EACH PLUMBING FIXTURE WHETHER SHOWN ON THE DRAWINGS OR NOT.
- 28. UNIONS SHALL BE PROVIDED AFTER EACH SCREW TYPE VALVE AND AT
- EQUIPMENT CONNECTIONS. PROVIDE ISOLATION UNIONS ON ALL CONNECTIONS BETWEEN DISSIMILAR METALS. 29. COLD & HOT WATER RISERS FOR FIXTURES, UNLESS NOTED OTHERWISE SHALL
- BE CONCEALED IN WALLS OR PIPE CHASES. 30. EXPOSED PIPING IN FINISHED AREAS SHALL BE CHROME PLATED WITH CHROME
- PLATED ESCUTCHEON AT PIPE ENTRY TO FINISHED AREA. 31. ALL DOMESTIC WATER PIPING (HOT, COLD, HOT WATER CIRCULATION) SHALL BE
- LOCATED WITHIN THE BUILDING ENVELOPE. PIPING LOCATED ABOVE CEILING SHALL BE LOCATED BETWEEN THE CEILING & ROOF/CEILING INSULATION. PIPING LOCATED IN EXTERIOR WALL SHALL BE LOCATED BETWEEN THE WALL INSULATION & INTERIOR SHEATHING
- 32. PROVIDE WATER HAMMER ARRESTORS AT EACH FIXTURE OR GROUP OF FIXTURES.

INSULATION:

- 33. INSULATE ALL ABOVE GROUND HOT AND COLD WATER PIPING AND FITTINGS WITH ANY ONE OF THE FOLLOWING: A. PRE-FORMED ARMAFLEX AP INSULATION, 1" THICK. USE ARMAFLEX 520
 - ADHESIVE ON ALL JOINTS. INSULATION CONDUCTIVITY SHALL BE MAXIMUM 0.27 (BTU*IN)/(HR*FT2* F) PER ASTM C 177.
 - B. PRE-FORMED NOMALOCK EPFI INSULATION INSULATION, 1" THICK. WITH A PRE-GLUED PRESSURE SENSITIVE ADHESIVE CLOSURE SYSTEM. INSULATION CONDUCTIVITY SHALL BE MAXIMUM 0.27 (BTU*IN)/(HR*FT2* F) PER ASTM C 177.
 - C. PRE-FORMED MICRO-LOK FIBER GLASS INSULATION, 1" THICK. WITH FACTORY APPLIED LONGITUDINAL ACRYLIC CLOSURE SYSTEM & FACTORY SUPPIED BUTT STRIPS. INSULATION CONDUCTIVITY SHALL BE MAXIMUM 0.24 (BTU*IN)/(HR*FT2* F) PER ASTM C 177.

SUPPORT SPACING:

- 34. SPACING OF HANGERS AND SUPPORTS FOR ABOVEGROUND HORIZONTAL PIPING AND TUBING SHALL NOT EXCEED THE FOLLOWING:
- A. CAST IRON WASTE/SOIL PIPE SHALL BE SUPPORTED AT NOT MORE THAN FIVE FOOT INTERVALS AND AT EACH HUB.
 - COPPER TUBING PIPE SIZE MAX. SPACING (FT) 3/4 " & SMALLER 1 IN. THRU 3 IN 4 IN. & LARGER
- PVC PIPE D. SEE 2012 INTERNATIONAL PLUMBING CODE, TABLE 308.5, FOR PIPE HANGER SPACING FOR OTHER MATERIALS
- 35. SUPPORT PIPES FROM STRUCTURE. WHERE SPACING OF STRUCTURAL MEMBERS EXCEEDS THE MAXIMUM SPACING NOTED ABOVE PROVIDE ADDITIONAL SUPPORTS OF SUFFICIENT SIZE TO SUPPORT PIPES WITHOUT EXCESSIVE DEFLECTION.
- 36. ADJUST HANGERS AND SUPPORTS TO SLOPE PIPE TO CODE OR AS OTHERWISE REQUIRED FOR PROPER OPERATION OF THE SYSTEM(S).
- 37. UNDERGROUND PIPING SHALL BE LAID ON A FIRM BED FOR ITS ENTIRE LENGTH.

MISCELLANEOUS:

- 38. THE SCHEDULED "BASIS OF DESIGN" IS INTENDED TO INDICATE THE PERFORMANCE REQUIRED FOR THE PARTICULAR ITEM OF EQUIPMENT. SUBSTITUTIONS WILL BE PERMITTED. SUBSTITUTIONS SHALL BE DEEMED TO INCLUDE ALL ASSOCIATED CHANGES TO BUILDING, STRUCTURE & OTHER SERVICES WITHOUT ANY ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT SUBSTITUTIONS SHALL FIT INTO THE SPACE AVAILABLE WITH PROVISIONS FOR PROPER ACCESS, MAINTENANCE, PARTS REPLACEMENT, WEIGHT ALLOWANCE & FOR COORDINATION WITH OTHER TRADES (INCLUDING ELECTRICAL, MECHANICAL, STRUCTURAL AND ARCHITECTURAL).
- 39. PROVIDE SLEEVES FOR PIPES THRU FLOORS, MASONRY WALLS & FIRE OR SMOKE PARTITIONS. PENETRATIONS THROUGH FIRE RATED FLOORS, WALLS AND PARTITIONS SHALL BE FIRE STOPPED TO COMPLY WITH THE APPLICABLE EDITION, INCLUDING REVISIONS, OF THE STANDARD BUILDING CODE, STANDARD MECHANICAL CODE AND LOCAL FIRE MARSHALL REQUIREMENTS. FIRE STOP SYSTEM USED SHALL BE UL LISTED AND SHALL BE SUITABLE FOR THE PENETRATING AND PENETRATED MATERIALS. THE WORK SHALL BE INSPECTED AND CERTIFIED BY THE MANUFACTURER'S AUTHORIZED REPRESENTATIVE. PENETRATIONS THROUGH WALLS AND FLOORS BELOW GRADE AND OUTSIDE WALLS SHALL BE SEALED AND CAULKED WATER, MOISTURE AND AIR TIGHT TO ARCHITECT APPROVAL.
- 40. BACK FLOW PREVENTORS SHALL BE PROVIDED ON ALL BEVERAGE MACHINES AND ICE MAKERS WHETHER SHOWN ON THE DRAWINGS OR NOT.

ABI	BR	EVIATION
AAV AFF BFP CMP CW F DIA FD FS HD FS HD FS HD HW IM IPC LAV PRV RD SAN TYP VTR		AIR ADMITTANCE M ABOVE FINISHED F BACK FLOW PREV COMPRESSOR COLD WATER DEGREES FAHREN DIAMETER FLOOR DRAIN FLOOR SINK HUB DRAIN HORSEPOWER HOT WATER ICE MAKER BOX INTERNATIONAL PL LAVATORY PRESSURE REDUC ROOF DRAIN SANITARY TYPICAL VENT THROUGH R



NHEIT

LUMBING CODE CING VALVE

ROOF

	PLUMBING FIXTURE SCHEDULE				
TAG	MANUFACTURER	MODEL	DESCRIPTION	ACCESSORIES	
FD	ZURN	Z-415B	FLOOR DRAIN, DURACOATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP & ADJUSTIBLE COLLAR WITH TYPE "B" POLISHED, NICKEL BRONZE STRAINER.	6" DIAMETER NICKEL-BRONZE FINISH WITH 3" PIPE SIZE CONNECTION.	
FCO	ZURN	Z-1400-HD	ADJUSTABLE FLOOR CLEANOUT, DURACOATED CAST IRON BODY, WITH GAS & WATER TIGHT ABS TAPERED THREAD PLUG & ROUND SCORIATED TOP ADJUSTABLE TO FINISHED FLOOR.	PROVIDE WITH VANDAL PROOF SECURED TOP HEAVEY DUTY TOP	
FS	ZURN	Z-1901	12"x12"x8" FLOOR SINK, DEEP CAST IRON BODY, WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP, ABS ANTI-SPLASH INTERIOR BOTTOM DOME STRAINER, HALF-GRATE		
AAV	STUDOR	MINI-VENT	AIR ADMITTANCE VALVE		
TP	MIFAB	M-500	PRESSURE DROP ACTIVATED BRASS TRAP SEAL PRIMER. COMPLETE WITH FOUR VIEW HOLES & REMOVABLE FILTER SCREEN.	1/2" INLETS & OUTLETS, REMOVABLE FILTER SCREEN PROVIDE WITH DISTRIBUTION UNIT MI-DU TO SERVE UP TO FOUR FLOOR DRAIN TRAPS.	

SYMBOL	PLUMBING LEGEND
	NEW DOMESTIC (COLD) WATER PIPING
	EXISTING DOMESTIC (COLD) WATER PIPING
	NEW HOT WATER PIPING
	EXISTING HOT WATER RETURN PIPING
	EXISTING SANITARY DRAINAGE PIPING
	NEW SANITARY DRAINAGE PIPING
	NEW VENT PIPING
	EXISTING VENT PIPING
e	PIPING TURNING DOWN
<u>~</u>	P-TRAP
	SHUT-OFF VALVE
\otimes	FLOOR/GRADE CLEAN OUT
©G-	FLOOR DRAIN
•	NEW-TO-EXISTING CONNECTION

<u> </u>	FIR
1.	THE (FULL
2.	NAMES DESIG REQUI
	JURIS HAZAF PROVI
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	STANE INTER ACCE
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EC	QUIPMENT SCHEDULE: 🖂
1	BACK BAR REFRIGERATED CABINET
2	REFRIGERATOR GLASS AND PLATE CHILLER
3	DISHWASHER BAR AREA
4	(3) COMP SINK WITH DRAIN BOARD
5	HAND SINK BAR AREA
6	UNDER BAR ICE BIN CABINET
7	DUMP SINK

RE PROTECTION NOTES:

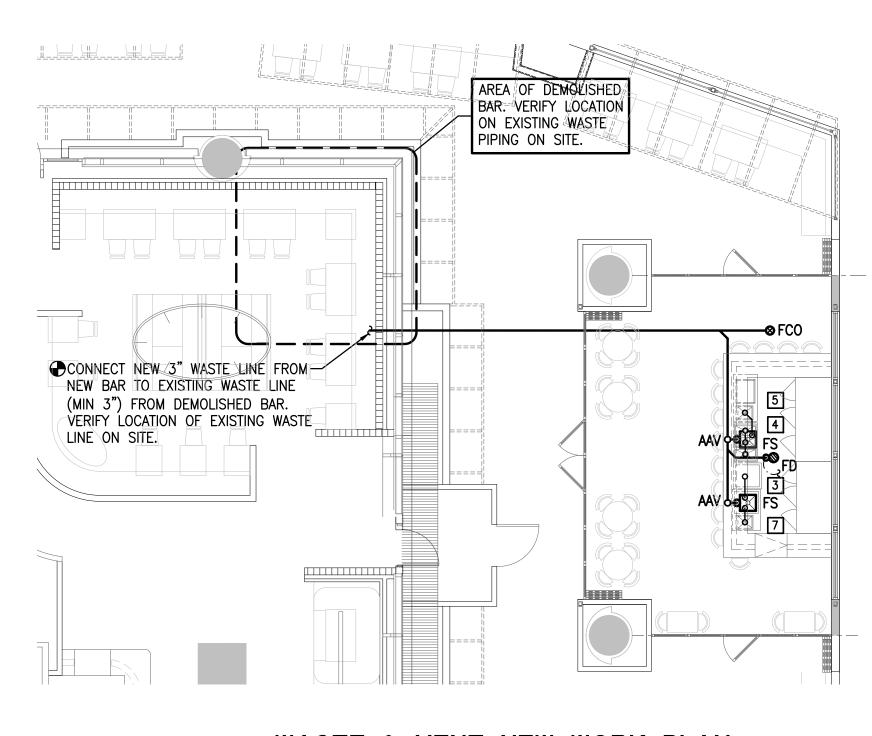
CONTRACTOR MODIFY THE EXISTING FIRE PROTECTION SYSTEM SYSTEMS IN COMPLIANCE WITH NFPA 13. REFER TO ARCHITECTURAL DRAWINGS FOR ES OF ALL AREAS, FIRE RATINGS, FIXTURE LAYOUTS, ETC. GN CRITERIA: THE CONTRACTOR SHALL DETERMINE THE SPECIFIC JIREMENTS OF THE OWNER'S INSURERS AND THE AUTHORITY HAVING SDICTION, INCLUDING DESIGN DENSITIES, AREA OF OPERATION AND REQUIRED RD CLASSIFICATION AND OTHER ADDITIONAL SPECIAL REQUIREMENTS AND /IDE A SYSTEM TO SUIT. THE CONTRACTOR SHALL PROVIDE THE ARCHITECT DOCUMENTED VERIFICATION OF ALL REQUIREMENTS. INSTALLATION SHALL BE DESIGNED IN ACCORDANCE WITH APPLICABLE NFPA DARDS UNLESS MODIFIED BY THE OWNER'S FIRE INSURANCE CARRIERS RPRETATION GUIDE. ALL PLANS AND FINAL INSTALLATIONS ARE SUBJECT TO

PTANCE BY THE FIRE INSURANCE CARRIER AND THE AUTHORITY HAVING SDICTION. CONTRACTOR SHALL PAY ALL FEES REQUIRED. THE CONTRACTOR SHALL

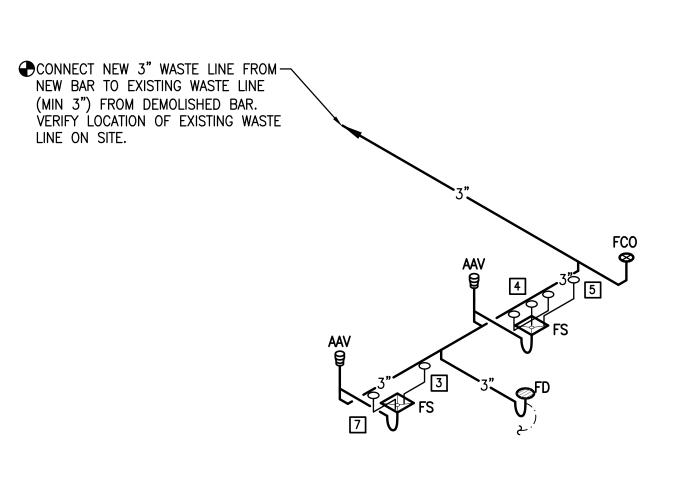
NGE FOR ALL INSPECTIONS REQUIRED BY THE LOCAL AUTHORITY HAVING SDICTION PRIOR TO ACCEPTANCE.



	01640
DATE 12.19.16.	RELEASE RELEASED FOR
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DRAWN NOTE:	BY:
THESE DRA PROPERTY ARCHITECT	WINGS ARE THE OF ARIE KOHN S, P.C. AND SHALL SED, REPRODUCED,
AND/OR M WRITTEN C	ODIFIED WITHOUT ONSENT FROM ARIE CHITECTS, P.C.
PROJECT FOR: FIKRET KOVAC	3871 TRICKUM ROAD NE MARIETTA, GA 30066 (404) 456-2329
	ARE KOHN ARCHITECTS, PC 74 WOODSTOCK ROAD, ROSWELL, GA. 30075 TEL. (770) 642-9030 FAX. (770)642-3755 EMAIL: info@akohnarch.com
	ORG REGISTERE No.02559 PROFISSION SUCCESSION M. BOLL 7/31/1
3500 LENOX ROAD NE, SUITE 100 PROJECT: 01640 ATLANTA, GA 30326 DATE: 10/20/16	LI I LE ALLEY SIEAN RESTAURANT PLUMBING NOTES, LEGEND & SCHEDULES
	4

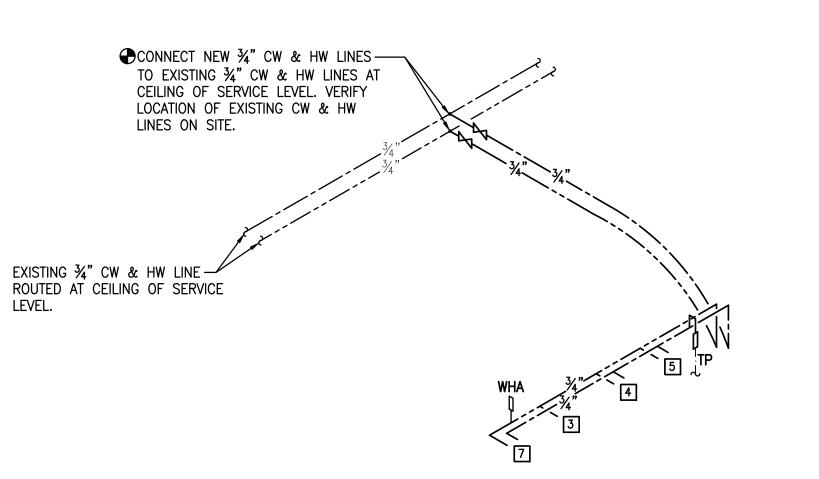


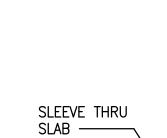
WASTE & VENT NEW WORK PLAN SCALE: ⅛" = 1'−0"



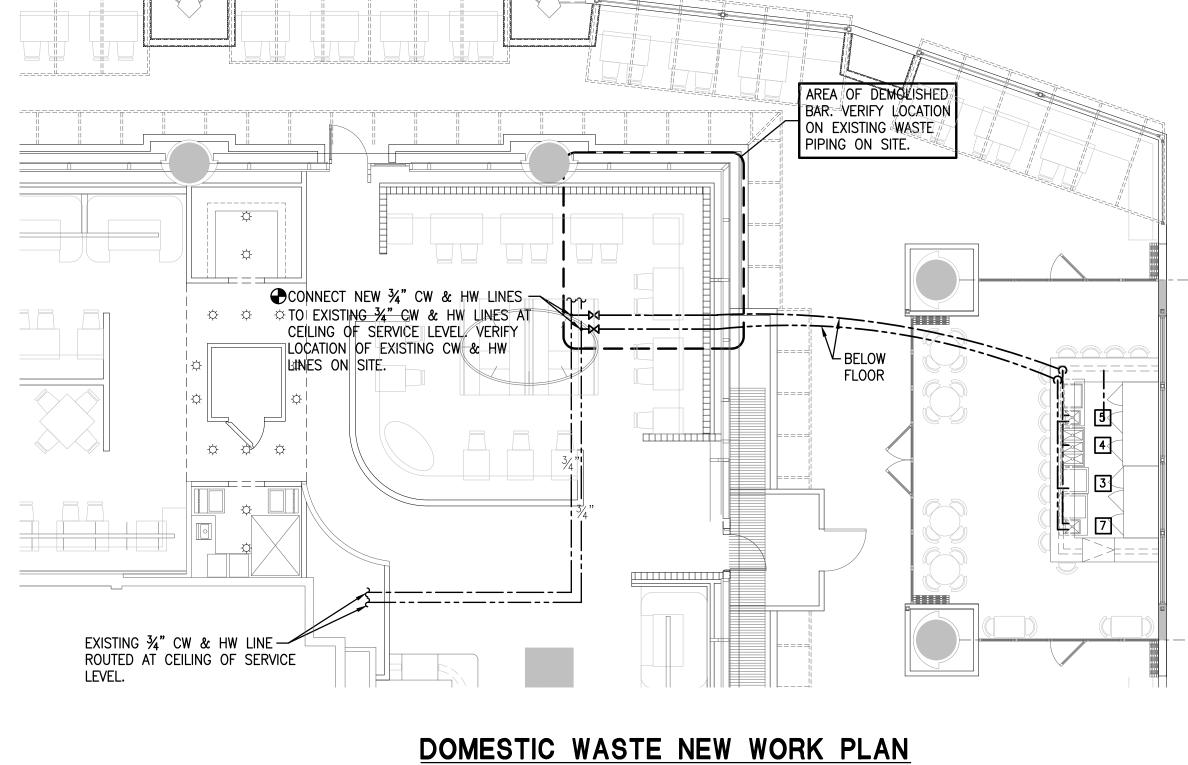
<u>"NEW BAR" WASTE & VENT RISER</u> NOT TO SCALE



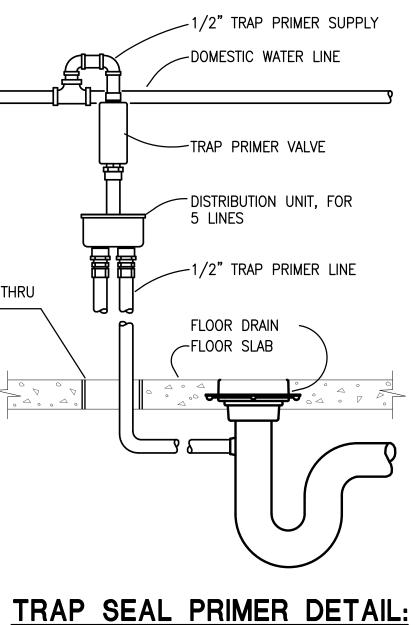




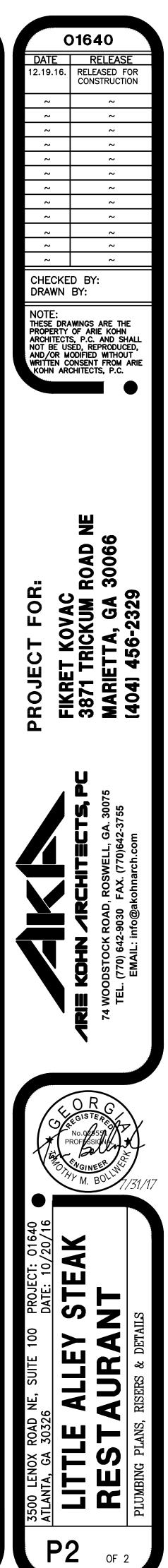




SCALE: ⅛" = 1'−0"







ELECTRICAL SPECIFICATIONS AND NOTES:

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2014 NATIONAL ELECTRICAL CODE (NFPA 70), AS MODIFIED BY THE STATE, COUNTY, CITY AND/OR OTHER LOCAL CODES. THE SERVICE AND METERING SHALL COMPLY WITH THE REQUIREMENTS OF THE ELECTRICAL UTILITY. PRIOR TO DISTURBING THE SOIL, CONTACT THE UNDERGROUND UTILITY LOCATION SERVICE TO LOCATE AND FLAG ALL EXISTING UNDERGROUND PIPING, COMMUNICATION AND ELECTRICAL DISTRIBUTION CABLES/CONDUIT.
- 2. THE CONTRACTOR SHALL PROVIDE ALL MATERIAL, LABOR, AND EQUIPMENT NECESSARY TO FURNISH A COMPLETE AND OPERABLE ELECTRICAL SYSTEM. ALL WORK SHALL BE PERFORMED IN A NEAT AND PROFESSIONAL MANNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING THE COST FOR ALL
- NECESSARY TEMPORARY ELECTRICAL POWER FOR CONSTRUCTION USE. THE CONTRACTOR SHALL OBTAIN, PURCHASE, AND MAINTAIN ALL PERMITS, AND INSPECTIONS REQUIRED BY THE GOVERNING AUTHORITIES FOR THE DURATION OF THIS PROJECT.
- THE CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS, AND MAKE ALL FINAL CONNECTIONS, TO EQUIPMENT FURNISHED BY OTHER TRADES. THE CONTRACTOR SHALL GUARANTEE ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF THE COMPLETED PROJECT.
- PANELBOARDS AND OTHER ELECTRICAL EQUIPMENT SHALL BE INSTALLED AS SHOWN ON THE PLANS, UNLESS NOTED OTHERWISE. MOUNT ALL WALL-MOUNTED, SURFACE TYPE, GROUPED ELECTRICAL EQUIPMENT ON 3/4" THICK EXTERIOR GRADE PLYWOOD, PAINTED GRAY, OR CONCRETE BLOCK WALLS, WHERE APPROVED BY THE STRUCTURAL ENGINEER. FLOOR-MOUNTED EQUIPMENT SHALL BE INSTALLED ON A 4" HIGH CONCRETE PAD WITH CHAMFERED EDGES. VERIFY THE DEPTH OF RECESSED PANELS AND WALL CAVITIES, AND COORDINATE THE INSTALLATION WITH THE ARCHITECTURAL DRAWINGS, AND THE GENERAL CONTRACTOR. WORKING CLEARANCES SHALL BE 36" (FOR 208 VOLT SYSTEM) MINIMUM. AND WIDTH OF EQUIPMENT OR 30" MINIMUM, WHICHEVER IS GREATER, WIDE, PER NEC ARTICLE 110.26. WHERE A PANELBOARD OR LOADCENTER IS LOCATED IN A STORAGE OR EQUIPMENT ROOM (NOT A CORRIDOR OR THE KITCHEN) THAT IS NOT PARTITIONED FROM OTHER USES, PAINT THE LIMITS OF THE WORKING CLEARANCES FROM NEC ARTICLE 110.26 ON THE FLOOR IN FRONT OF THE EQUIPMENT.
- THE CONTRACTOR SHALL VERIFY AND COORDINATE WITH OTHER TRADES THE INSTALLATION OF ALL OVERCURRENT DEVICES COMPLY WITH NEC 240.24. THE CONTRACTOR SHALL TAKE THE PROPER ACTION AS REQUIRED TO COMPLY WITH THIS REQUIREMENT.
- THE CONTRACTOR SHALL COORDINATE THE WIDTH, DEPTH, HEIGHT, DOOR SWINGS, AND NEC ARTICLE 22. ALL 125 VOLT, SINGLE PHASE, 15 OR 20 AMP RECEPTACLES IN NON-DWELLING UNIT KITCHENS 110.26 CLEARANCES FOR ALL PANELS, TRANSFORMERS, STARTERS, AND SAFETY SWITCHES TO INSURE THAT ALL EQUIPMENT FITS WITHIN THE SPACE ALLOWED
- IDENTIFY PANELBOARDS, SAFETY SWITCHES, STARTERS, CONTROLS, AND OTHER ELECTRICAL EQUIPMENT WITH ENGRAVED PLASTIC NAMEPLATES HAVING CONTRASTING 1/4" HIGH (OR LARGER) LETTERS, WITH NAMES TO MATCH THE SCHEDULES OR OTHER DRAWING REFERENCES. TYPEWRITTEN PANEL DIRECTORIES SHALL BE PROVIDED IN ALL PANELBOARDS IN ACCORDANCE w/ NEC 408.4(A), AND SHALL REFLECT AS-BUILT CONDITIONS. ALSO, LABEL ALL PANELBOARDS IN ACCORDANCE w/ NEC 110.16, 110.24(A) AND 408.4(B)
- 10. ALL WIRING, CONSISTING OF INDIVIDUAL CONDUCTORS, SHALL BE INSTALLED IN CONDUIT, EXCEPT WHERE SPECIFICALLY SHOWN ON THE DRAWINGS. ALL EXTERIOR CONDUITS AND EXPOSED CONDUITS SHALL BE RIGID GALVANIZED STEEL, OR INTERMEDIATE METAL CONDUIT, BUT THEY SHALL NOT BE MIXED ON THIS PROJECT. WHERE USED INDOORS MAY BE EMT. CONCEALED CIRCUITS MAY BE RUN IN EMT OR BE TYPE MC CABLE (BX). NON-METALLIC SHEATHED (TYPE NM) CABLE IS NOT PERMITTED ON THIS PROJECT. IN FINISHED AREAS WITH CAVITY TYPE WALL CONSTRUCTION, ALL CONDUIT SHALL BE CONCEALED, UNLESS NOTED OTHERWISE. IN FINISHED AREAS WITH NON-CAVITY TYPE WALL CONSTRUCTION, SURFACE MOUNTED GRS, IMC, OR EMT SHALL BE USED. CONDUITS, SERVING AREAS OUTSIDE THE KITCHEN AREA, SHALL NOT BE RUN UNDER THE FLOOR IN THE KITCHEN AREA, UNLESS NOTED OTHERWISE. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH A NYLON PULL CORD RATED FOR 200 POUND TENSION. ANY OF THE FOLLOWING TYPES OF RACEWAYS MAY BE USED, SUBJECT TO THE NEC AND THE ADDITIONAL RESTRICTIONS LISTED, IF ANY
 - A. CONCEALED:
 - GRS, OR IMC. 1)
 - EMT. COMPRESSION, OR SET SCREW FITTINGS, BUT NOT BOTH TYPES.
 - PVC. SCHEDULE 40. SCHEDULE 80 WHERE INDICATED ON THE DRAWINGS.
 - UNDERGROUND ONLY.
 - TYPE MC CABLE. ONLY ABOVE ACCESSIBLE CEILINGS, IN WALL CAVITIES, AND ADDITIONAL USAGES AS APPROVED BY AUTHORITY HAVING JURISDICTION. AND OWNER. B. EXPOSED:
 - 1). GRS, OR IMC.
 - EMT. COMPRESSION, OR SET SCREW FITTINGS. ONLY WHERE USED INDOORS AND NOT SUBJECT TO PHYSICAL DAMAGE.
 - FLEXIBLE METAL CONDUIT.
- LIQUIDTIGHT FLEXIBLE METAL CONDUIT. OUTSIDE AND WHERE MOISTURE IS PRESENT. 11. PROVIDE EXPANSION FITTINGS IN ALL RIGID RACEWAYS CROSSING STRUCTURAL EXPANSION JOINTS. FURNISH AND INSTALL ALL SUPPORTS REQUIRED FOR CONDUIT, MATERIALS, DEVICES, EQUIPMENT AND THE LIKE, WHERE THE BUILDING STRUCTURE IS NOT ADAPTED OR SUITABLE FOR MOUNTING SAME DIRECTLY THEREON. RACEWAYS SHALL NOT BE USED AS SUPPORTS FOR BOXES OR OTHER ELECTRICAL EQUIPMENT. PLENUM CABLE SUPPORT BRACKETS SHALL BE OPEN ON ONE SIDE, AND CABLES SHALL BE ATTACHED WITH PLASTIC CABLE TIES. ALL RACEWAY PENETRATIONS, THROUGH FIREWALLS, SHALL BE SEALED WITH UL LISTED SEALING COMPOUNDS TO MAINTAIN THE FIRE RATING OF THE WALL. ALL RACEWAYS/SLEEVES PASSING THROUGH AREAS OF DIFFERENT TEMPERATURES, I.E. FROM WARMER AREAS TO WALK-IN COOLERS, AND FREEZERS, INSIDE TO OUTSIDE OF BUILDINGS AND CONNECTIONS TO REFRIGERATED EQUIPMENT, SHALL BE SEALED WITH AN APPROVED PUTTY OR DUCT-SEAL TO PREVENT THE CIRCULATION OF WARM AIR TO A COLDER SECTION OF THE RACEWAY OR SLEEVE. ALL RACEWAY PENETRATIONS THROUGH EXTERIOR AND INTERIOR WALLS AND FLOORS SHALL BE PROPERLY SEALED.
- 12. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF RACEWAY SYSTEMS AND ROUGHING-IN FOR ALL LOW VOLTAGE (LV) EQUIPMENT [COMPUTER, DATA, SECURITY, POINT-OF-SALE (POS), MUSIC, PAGING, INTERCOM, FIRE DETECTION, TV, AND TELEPHONE] WITH THE OWNER AND EQUIPMENT SUPPLIER(S) PRIOR TO THE INSTALLATION OF CONDUITS, JUNCTION BOXES, WIRING DEVICES, AND WIRING. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH A NYLON PULL CORD. ALL WIREWAYS, PULL BOXES, DEVICE BOXES, AND JUNCTION BOXES SHALL BE SIZED PER JIC, NEMA, AND THE NATIONAL ELECTRICAL CODE. ALL WIRING WITHIN BOXES AND WIREWAYS SHALL BE TAGGED WITH PANEL AND CIRCUIT NUMBERS.
- TWENTY AMP BRANCH CIRCUITS MAY BE SHOWN WITH EITHER SINGLE CIRCUIT. OR THREE CIRCUIT 13. (MULTIWIRE BRANCH CIRCUIT) HOME RUNS. THREE CIRCUIT HOME RUNS SHARE A COMMON NEUTRAL, UNLESS NOTED OTHERWISE AND GROUND IN A SINGLE CONDUIT. THE CONTRACTOR MAY ELECT TO COMBINE SINGLE CIRCUIT HOME RUNS TO MAKE THREE CIRCUIT HOME RUNS, OR TO CHANGE THREE CIRCUIT HOME RUNS TO SINGLE CIRCUIT HOME RUNS. ALL MULTIWIRE BRANCH CIRCUITS SHALL HAVE A MEANS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE PANEL TO COMPLY w/ NEC 210.4(B).
- 14. PROVIDE SEPARATE GREEN, INSULATED GROUND WIRE IN ALL RACEWAYS. 15. ALL WIRING SHALL BE 600 VOLT, COPPER, STRANDED, WITH TYPE XHHW OR THHN/THWN INSULATION. MINIMUM SIZE FOR POWER AND LIGHTING CIRCUITS BE 12 AWG. SIZES 10 AWG AND SMALLER SHALL BE SOLID. PROVIDE AN EQUIPMENT GROUND WIRE IN ALL RACEWAYS, AND CABLE ASSEMBLIES. SIZE EQUIPMENT GROUNDS PER TABLE 250.122 OF THE NATIONAL ELECTRICAL CODE. 16. CONDUCTOR COLOR CODES SHALL MATCH EXISTING FACILITY.
 - USE CONDUCTORS #8 AND SMALLER WITH COLOR FACTORY-APPLIED THE ENTIRE LENGTH OF THE CONDUCTORS. COLOR CODING FOR THE LARGER SIZES MAY BE ACCOMPLISHED BY USING COLORED, 1 INCH WIDE, PRESSURE-SENSITIVE PLASTIC TAPE IN HALF-LAPPED TURN FOR A DISTANCE OF 6 INCHES FROM TERMINAL POINTS. APPLY THE LAST TWO LAPS OF TAPE WITH NO TENSION TO PREVENT POSSIBLE UNWINDING.

POST IDENTIFICATION MEANS IN ACCORDANCE WITH NEC 210.5 (C).

- 17. ALL ELECTRICAL EQUIPMENT SHALL BE LISTED BY UNDERWRITERS LABORATORIES (OR OTHER INDEPENDENT NATIONALLY RECOGNIZED TESTING AGENCY, WHERE APPLICABLE), AND SHALL BE
- RATED FOR THE MAXIMUM AVAILABLE VOLTAGE AND AVAILABLE FAULT CURRENT FOR THIS PROJECT. 18. ALL DEVICE BOXES SHALL BE INSTALLED FLUSH, AND CONDUITS RUN CONCEALED IN FINISHED AREAS, EXCEPT AS SPECIFICALLY SHOWN OR NOTED OTHERWISE. VERIFY ALL DOOR SWINGS BEFORE INSTALLING SWITCH BOXES. SEE ARCHITECTURAL DRAWINGS FOR CABINET WORK. WALL SECTIONS. ELEVATIONS, AND OTHER DETAILS AFFECTING THE MOUNTING HEIGHT AND LOCATION OF OUTLET BOXES.

- ALL CRITERIA.
- COMPLIANCE WITH ALL CRITERIA.

- BOXES TO OPTIMIZE THE WIRING.
- HOUSINGS WILL NOT BE PERMITTED.

- SCHEDULES.

36. SUBSTITUTIONS: ALL COSTS INCURRED BY THE ACCEPTANCE OF SUBSTITUTIONS SHALL BE BORNE BY THE CONTRACTOR. THE ONUS SHALL BE ON THE CONTRACTOR TO PROVE THAT THE SUBSTITUTIONS ARE EQUAL TO THE BASIS OF DESIGN SPECIFIED. 37. MAINTAIN AS-BUILT DRAWINGS, UPDATED DAILY DURING CONSTRUCTION, AND PRESENT THE OWNER, WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, WITH TWO SETS OF AS-BUILT DRAWINGS. PROVIDE THE OWNER'S PERSONNEL WITH ON-SITE INSTRUCTION IN THE OPERATION AND MAINTENANCE OF THE COMPLETED ELECTRICAL SYSTEM PRIOR TO SYSTEM ACCEPTANCE. 38. PROVIDE THE OWNER WITH TWO SETS OF OPERATIONS AND MAINTENANCE (0 & M) MANUALS IN ACCORDANCE WITH ASHRAE/IESNA STANDARD 90.1-2001. THE MANUALS SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING: A. SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF

19. WIRING DEVICES: DUPLEX RECEPTACLES SHALL BE 20A., 125 VOLTS, COMMERCIAL SERIES, HEAVY DUTY, SPECIFICATION GRADE, BACK AND SIDE WIRED, WITH GROUNDING TERMINAL AND SHALL BE IVORY UNLESS NOTED OTHERWISE, HUBBELL 5362I OR APPROVED EQUAL, CONTINGENT UPON FULL COMPLIANCE WITH ALL CRITERIA. ISOLATED GROUND DUPLEX RECEPTACLES SHALL BE 20A., 125 VOLTS, HUBBELL CR5352IGI OR APPROVED EQUAL, CONTINGENT UPON FULL COMPLIANCE WITH ALL CRITERIA. AC TOGGLE SWITCHES SHALL BE 20A., 120-277 VOLTS, COMMERCIAL SERIES, HEAVY DUTY, SPECIFICATION GRADE, BACK AND SIDE WIRED, WITH GROUNDING TERMINAL AND SHALL BE IVORY UNLESS NOTED OTHERWISE, HUBBELL CSB120I, TWO POLE, HUBBELL CSB220I, THREE WAY, HUBBELL CSB320I, FOUR WAY, HUBBELL CSB420I OR APPROVED EQUAL, CONTINGENT UPON FULL COMPLIANCE WITH ALL CRITERIA. GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLES SHALL BE 20A., 125 VOLTS, COMMERCIAL SPECIFICATION GRADE, HUBBELL GF20ILA OR APPROVED EQUAL, CONTINGENT UPON FULL COMPLIANCE WITH ALL CRITERIA. GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLES SHALL NOT BE THE FEED THROUGH TYPE, BUT STAND ALONE GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLES. NEW INTERIOR EXPOSED DEVICE PLATES, IN ALL LOCATIONS WHERE SPECIFIED AND/OR THE KITCHEN SHALL BE TYPE 302/304 STAINLESS STEEL. ALL OTHER INTERIOR PLATES SHALL BE NYLON, STANDARD SIZE, AND GANGED FOR MULTIPLE DEVICES AT A SINGLE LOCATION. VERIFY THE DECOR THEME WITH THE ARCHITECT AND COORDINATE COLOR AS REQUIRED. WHERE USED OUTDOORS OR IN WET LOCATIONS ALL 15 OR 20A 125 OR 250V NON-LOCKING RECEPTACLES SHALL BE WEATHER-RESISTANT LISTED, IN DAMP AREAS, THE OUTLET COVERS FOR 15 OR 20A, 125 OR 250V DEVICES SHALL BE "WEATHERPROOF WHILE IN USE", HUBBELL WP26E OR APPROVED EQUAL, CONTINGENT UPON FULL COMPLIANCE WITH

20. ALL WALL OUTLETS THAT ARE SHOWN BACK TO BACK, IN FIRE RATED WALLS, SHALL BE INSTALLED WITH A MINIMUM OF 24" OF HORIZONTAL SEPARATION (TWO STUDS) PER NEC ARTICLE 300.21, AND UL REQUIREMENTS. IN WALL SPACES WHERE THE 24" SEPARATION IS NOT POSSIBLE, BLOCKING AND GYPSUM BOARD PROVISIONS, TO MAINTAIN THE FIRE RATING OF THE WALL, SHALL BE PROVIDED BY OTHERS, NOT BY THIS CONTRACTOR.

21. ALL 125 VOLT, 15 OR 20 AMP NON-LOCKING RECEPTACLES WITHIN 6'-0" OF ANY PLUMBING FIXTURE, AND/OR WHERE INDICATED, SHALL BE 20A., 125 VOLTS, COMMERCIAL SERIES, HEAVY DUTY, SPECIFICATION GRADE, BACK AND SIDE WIRED, WITH GROUNDING TERMINAL GROUND FAULT INTERRUPTER OUTLETS, HUBBELL GF20ILA, OR APPROVED EQUAL, CONTINGENT UPON FULL

SHALL BE GROUND FAULT INTERRUPTER OUTLETS, HUBBELL GF20ILA, OR APPROVED EQUAL, CONTINGENT UPON FULL COMPLIANCE WITH ALL CRITERIA, AS REQUIRED BY NEC 210.8(B) 23. ALL 125 VOLT. 15 OR 20 AMP CIRCUITS SERVING A DISHWASHER, VENDING MACHINE, OR ELECTRIC DRINKING FOUNTAIN SHALL BE PROTECTED WITH A GROUND FAULT TYPE BRANCH CIRCUIT BREAKER. 24. ALIGN ALL SIMILAR WIRING DEVICES IN THE SAME ROOM AT THE SAME HEIGHTS AND DISTANCES FROM ARCHITECTURAL FEATURES, UNLESS NOTED OTHERWISE. GANG ALL DEVICE BOXES AT THE SAME LOCATION, WHERE ALLOWED BY CODE. PROVIDE DIVIDERS TO SEPARATE LOW VOLTAGE (I.E., THERMOSTAT) DEVICES FROM POWER DEVICES (I.E., SWITCHES). ALL EXTERIOR WIRING DEVICES SHALL BE BLACK, OR GRAY, OR BROWN, UNLESS NOTED OTHERWISE.

25. ALL UNIT EQUIPMENT FOR EMERGENCY LIGHTING SHALL BE CONNECTED TO BRANCH CIRCUITS FOR NORMAL LIGHTING IN THE SAME AREA, UNLESS NOTED OTHERWISE. AHEAD OF ANY LOCAL SWITCHES OR CONTACTORS PER NEC ARTICLE 700.12(F).

26. ALL NIGHT LIGHTING, EXIT LIGHTING AND EMERGENCY LIGHTING SHALL BE CONNECTED TO BRANCH CIRCUITS FOR NORMAL LIGHTING IN THE SAME AREA, UNLESS NOTED OTHERWISE, AHEAD OF ANY LOCAL SWITCHES OR CONTACTORS

27. LUMINAIRES INSTALLED IN INSULATED CEILINGS SHALL BE IC RATED, AND INSTALLED PER THE LUMINAIRE MANUFACTURER'S AND UL LISTING REQUIREMENTS.

28. LUMINAIRES RECESSED IN FIRE RATED CEILINGS SHALL HAVE AN UL LISTED ASSEMBLY AROUND THE FIXTURE HOUSING THAT MEETS OR EXCEEDS THE RATING OF THE CEILING. THE FIXTURE SHALL BE INSTALLED PER THE LUMINAIRE MANUFACTURER'S AND UL LISTING REQUIREMENTS. THE CONTRACTOR SHALL VERIFY WITH THE ARCHITECT PRIOR TO BID THE LOCATION OF ALL FIRE RATED ASSEMBLIES. 29. THIS PROJECT MAY UTILIZE BOTH ACCESSIBLE AND NON-ACCESSIBLE TYPE CEILINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL CEILING TYPES IN EACH AREA. LIGHTING CIRCUITS IN NON-ACCESSIBLE CEILINGS MUST UTILIZE FIXTURE-MOUNTED JUNCTION BOXES WHICH ARE USUALLY LIMITED TO EIGHT (8) WIRES IN THEIR CAPACITY. CIRCUITING FOR THE LIGHTING IS SCHEMATIC. BUT GENERALLY ATTEMPTS TO SHOW THESE CONSIDERATIONS. HOWEVER, CONTRACTOR MAY WANT TO PROVIDE SUPPLEMENTARY JUNCTION BOXES IN ACCESSIBLE AREAS, OR OVERSIZE FIXTURE

ELECTRICAL DRAWINGS ARE IN PART DIAGRAMMATIC. LOCATE LIGHTING FIXTURES SYMMETRICALLY OR IN PROPER RELATION TO FINISHED AREAS UNLESS OTHERWISE DIMENSIONED OR DETAILED. THE CONTRACTOR SHALL COORDINATE ALL LUMINAIRE LOCATIONS AND CLEARANCES WITH THE DUCTWORK. THE REFLECTED CEILING PLAN, HVAC PLAN, AND OTHER DRAWINGS TO AVOID CONFLICTS. 31. A NUMERAL BESIDE BRANCH CIRCUIT OUTLET INDICATES PANELBOARD CIRCUIT CONNECTION.

UPPER-CASE LETTER OR LETTER-GROUP BESIDE LIGHTING FIXTURE INDICATES FIXTURE TYPE LOWER-CASE LETTER BESIDE LIGHTING FIXTURE OUTLET INDICATES LOCAL SWITCH LEG CONNECTION. ELECTRICAL SYMBOLS USED ARE APPLICABLE GENERALLY: FOR EXACT REQUIREMENTS REFER TO APPLICABLE SCHEDULES AND DETAILS AND TO THE SPECIFICATIONS. HOWEVER, COMBINING OF CIRCUITS IN RACEWAYS. OTHER THAN DETAILED, WILL NOT BE PERMITTED. RUNNING OF BRANCH CIRCUITS, OTHER THAN THE ONE SERVING THE FIXTURE, THROUGH LIGHTING FIXTURE CHANNELS OR

32. ALL SAFETY SWITCHES SHALL BE FURNISHED BY THE CONTRACTOR, UNLESS NOTED OTHERWISE AND SHALL NOT BE MOUNTED ON ACCESS PANELS OF EQUIPMENT. SAFETY SWITCHES SHALL BE GENERAL ELECTRIC, SQUARE D, CUTLER-HAMMER, SIEMENS ENERGY & AUTOMATION, OR APPROVED

EQUAL, CONTINGENT UPON FULL COMPLIANCE WITH ALL CRITERIA, AND SHALL BE FUSED AND/OR NOT FUSED AS INDICATED, 240 VOLT. THREE OR TWO POLE, HEAVY DUTY, IN A NEMA 3R ENCLOSURE FOR OUTDOOR USE OR WHERE MOISTURE IS PRESENT, AND NEMA 1 ENCLOSURE FOR INDOOR USE. UNLESS NOTED OTHERWISE, ALL FUSES SHALL BE NON-RENEWABLE, DUAL ELEMENT, TIME DELAY, CURRENT LIMITING, CLASS J, L, RK-5, OR RK-1, WITH A 200,000 AMP AC RMS

INTERRUPTING RATING, AND SHALL MEET UL STANDARD 198E. 33. ALL PANELBOARDS ARE EXISTING. THE CONTRACTOR SHALL FIELD VERIFY WITHIN TEN (10) DAYS OF "NOTICE TO PROCEED" THE EXISTING CONDITION(S) OF THE PANELBOARD(S) TO DETERMINE THEY ARE IN GOOD WORKING CONDITION AND CAN ACCEPT THE SIZE AND TYPE(S) OF BREAKERS INDICATED ON THE PLANS AND IN THE SCHEDULES. THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER IN WRITING OF ALL DEFICIENCIES FOUND DURING THE VERIFICATION PRIOR TO THE START OF ANY DEMOLITION OR CONSTRUCTION.

PROVIDE THE NUMBER OF SPACES AND SPARE CIRCUIT BREAKERS AS SHOWN IN THE PANELBOARD

34. THE BRANCH CIRCUITS SHALL BE PHASE ADJUSTED TO PROVIDE APPROXIMATE BALANCED LOADING ON EACH PANEL, AND THE SERVICE. 35. RECORDS AND SUBMITTALS: PROVIDE THE OWNER A MINIMUM OF THREE COPIES OF SHOP

DRAWINGS WITH TECHNICAL DATA HIGH-LIGHTED, INDICATING THAT IT MEETS THE REQUIREMENTS FOR ELECTRICAL EQUIPMENT INSTALLED ON THIS PROJECT. SHOP DRAWINGS ARE REQUIRED FOR: SAFETY SWITCHES, LUMINAIRES, DIMMING EQUIPMENT, EMERGENCY LIGHTING EQUIPMENT, RACEWAYS, CONDUCTORS, ISOLATED GROUND RECEPTACLES, LIGHTING CONTROLS AND WIRING DEVICES.

CONTRACTOR SHALL VERIFY AVAILABLE FAULT CURRENT WITH UTILITY COMPANY FOR PROPER PANEL ASYMMETRICAL INTERRUPTING RATINGS. SUBMIT THIS INFORMATION WITH THE SHOP DRAWINGS ON PANELBOARDS, ALONG WITH LETTER FROM THE POWER COMPANY.

SHOP DRAWINGS SHALL BE BOUND HARD COPIES, ELECTRONIC COPIES ARE NOT ACCEPTABLE.

EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.

- NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY. C.
- A COMPLETE NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE. D EQUIPMENT FOR CONSIDERATION, BUT NOT LIMITED TO, IS AS FOLLOWS:
- DIMMING EQUIPMENT, EMERGENCY LIGHTING EQUIPMENT, AND LIGHTING CON 39. ALL COMMUNICATIONS [CONDUITS] CABLES SHALL BE ROUTED AND SECURED AT LEAST 12" FROM FLUORESCENT FIXTURES AND POWER CIRCUITS. CROSS OTHER
- CIRCUITS AT 90 DEGREE ANGLE. 40. MOUNT OUTLET BOXES, ABOVE ACCESSIBLE CEILINGS FOR RECESSED LUMINAIRES, ON THE BOTTOM OF BAR JOISTS, WOOD JOISTS, OR BEAMS, AND ROUTE FOUR TO SIX FOOT (4' TO 6'), TYPE MC CABLE WHIPS TO EACH FIXTURE, AS REQUIRED. COORDINATE THE LOCATIONS OF OUTLET/JUNCTION BOXES WITH THE HVAC CONTRACTOR AND OTHER TRADES TO AVOID INTERFERENCE WITH THE INSTALLATION OF DUCT WORK.
- 41. WHERE RECESSED, OUTLET BOXES ARE INDICATED LOCATED IN FIRE RATED CEILINGS, COORDINATE THE LOCATIONS OF OUTLETS WITH THE ARCHITECTURAL REFLECTED CEILING PLAN, CEILING FINISH PLAN, HVAC CONTRACTOR AND OTHER TRADES TO AVOID INTERFERENCE WITH THE INSTALLATION OF DUCT WORK. PROVIDE FIRE RATED ENCLOSURES LOCATED OVER THE OUTLET TO MAINTAIN THE SPECIFIED FIRE RATING OF THE CEILING.
- 42. VERIFY THE AMPACITY REQUIREMENTS (FLA, MCA, AND MOCP), POLES (1, 2, OR 3), AND VOLTAGE FOR ALL EQUIPMENT FURNISHED BY OTHERS WITH THE CONTRACTOR OR VENDOR SUPPLYING THE EQUIPMENT PRIOR TO THE PURCHASE AND INSTALLATION OF THE SAFETY SWITCHES, RACEWAYS, WIRING, AND BRANCH CIRCUIT BREAKERS
- 43. REFER TO THE KITCHEN EQUIPMENT SUPPLIER DRAWINGS FOR FINAL MOUNTING HEIGHTS AND LOCATIONS OF ALL DEVICE AND JUNCTION BOXES FOR KITCHEN EQUIPMENT. REFER TO FRANCHISE STANDARD ELECTRICAL DRAWINGS FOR GENERAL REQUIREMENTS, INSTALLATION DETAILS, STANDARDS, AND NON-SPECIFIC CRITERIA.
- 44. VERIFY ALL SPECIAL OUTLET TYPES, MOUNTING HEIGHTS, AND LOCATIONS SHOWN IN THE SCHEDULE WITH THE KITCHEN EQUIPMENT SUPPLIER(S) PRIOR TO PURCHASE AND INSTALLATION. VERIFY THE AMPACITY REQUIREMENTS (FLA, MCA, AND MOCP), POLES (1, 2, OR 3), AND VOLTAGE FOR ALL KITCHEN EQUIPMENT WITH THE KITCHEN EQUIPMENT SUPPLIER(S) PRIOR TO PURCHASE AND INSTALLATION OF THE PANELS AND CIRCUITS
- 45. TEST: UPON COMPLETION OF THE WORK, PERFORM A TEST OF THE INDIVIDUAL SYSTEMS INCLUDING FEEDERS, BRANCHES, OUTLETS, LIGHTING, MOTOR APPARATUS AND APPLIANCES, TO ASSURE COMPLIANCE WITH THESE SPECIFICATIONS AND DRAWINGS. THE TEST SHALL INCLUDE MINIMUM OF THE FOLLOWING TEST: MOTOR ROTATION FOR ALL THREE PHASE MOTORS.
 - VOLTAGE READINGS AT EACH BUS IN EACH PANEL WITH ALL LOADS IN NORMAL OPERATION. IMPEDANCE READINGS BETWEEN PANEL BUSSING FOR PHASE TO PHASE; PHASE TO NEUTRAL; AND PHASE TO GROUND FOR EACH PANEL.

A LETTER WITH ALL PERTINENT TEST DATA RESULTS SHALL BE SUBMITTED TO THE ARCHITECT AT LEAST FIVE (5) DAYS PRIOR TO THE COMPLETION OF THE PROJECT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL INSTRUMENTS, LABOR, AND MATERIALS FOR ANY ESSENTIAL INTERMEDIATE AND FINAL TESTS TO PROVIDE COMPLIANCE WITH THESE SPECIFICATIONS.

46. THE CONTRACTOR'S ATTENTION IS PARTICULARLY DIRECTED TO REQUIREMENTS REGARDING: SEALING OF RACEWAYS; APPROVED TYPES OF RACEWAY FITTINGS; SUPPORT OF RACEWAYS, BOXES, AND OTHER SYSTEM COMPONENTS; TAGGING OF CIRCUITS; GROUNDING JUMPERS FOR FLEXIBLE CONDUIT; IDENTIFICATION OF REMOTE CONTROL DEVICES, PANELBOARDS, ETC.; FILLING-IN OF PANELBOARD DIRECTORIES; MOUNTING HEIGHTS OF OUTLETS, CABINETS, ETC.; BUILDING AND SYSTEM GROUNDING; AND CHECKING, TESTING, AND PLACING IN SERVICE OF ALL ELECTRICAL SYSTEMS AND COMPONENTS.

SHOP DRAWING SUBMITTAL NOTE:

THE SHOP DRAWING SUBMITTAL SHALL INCLUDE AS A MINIMUM THE FOLLOWING:

- A TABLE OF CONTENTS OF ALL ITEMS INCLUDED IN THE SUBMITTAL. THIS SHALL BE SUB-DIVIDED BY CATEGORY
- OF DEVICES / EQUIPMENT.
- A LETTER, ON THE CONTRACTORS LETTERHEAD, WITH STATEMENTS ANY OF DEVIATIONS FROM THE DESIGN DOCUMENTS WITH EXPLANATIONS & SKETCHES AS NEEDED.
- A LETTER FROM THE UTILITY ON THEIR LETTERHEAD STATING THE AVAILABLE FAULT CURRENT AT THE SECONDARY
- OF THE UTILITY TRANSFORMER. HIGH-LIGHTED SUPPORTING DATA TO INDICATE COMPLIANCE WITH THE DESIGN DOCUMENTS.

THE SUBMITTALS SHALL NOT INCLUDE "TERM & CONDITIONS", INSTALLATION INSTRUCTIONS, OR ANY EXTRANEOUS INFORMATION THAT DOES NOT SHOW COMPLIANCE WITH THE SPECIFICATIONS. (THIS INFORMATION MAY BE SUBMITTED AS A SEPARATE DOCUMENT.)

THE SUBMITTAL SHALL BE ONE COMPLETE DOCUMENT PER DISCIPLINE.

WIRING SIZE CHART

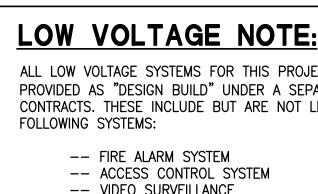
CONTRACTOR SHALL PROVIDE WIRING FOR 120 V., 15 & 20 A. CIRCUITS (LINE TO NEUTRAL) OF SIZES BELOW DEPENDING UPON CIRCUIT LENGTH BELOW: #12 AWG (CU) < 100 FT

< 100 FI	#12 A
100-160 FT	#10 A
160–250 FT	#8 AW

AWG (CU) WG (CU)

WHERE #8 AWG CONDUCTORS ARE REQUIRED USE #8 FOR ALL TRAVELERS AND SPLICE w/ #10 IN A CODE SIZED JUNCTION BOX WITHIN 10' OF DEVICE &/OR BREAKER FOR FINAL CONNECTIONS.

OTHER THAN AS NOTED ABOVE THE ENTIRE LENGTH OF FEEDER SHALL BE THE SAME CONDUCTOR SIZE.



- -- VIDEO SURVEILLANCE
- -- SECURITY ALARM -- TELEPHONE
- -- INTERCOM -- SOUND SYSTEMS

FI ECTRICAL I EGEND

ITROLS.	

	ELECTRICAL LEGEND
	EXIT LIGHT (ARROW INDICATES DIRECTION, SHADING INDICATES FACE)
	EMERGENCY BATTERY LIGHT
\$ _{oc}	OCCUPANCY SENSOR WALL SWITCH, MOUNT 48" A.F.F. U.N.O.
\$ _M	SPST SWITCH RATED FOR USE w/ MOTORS
¢	DUPLEX RECEPTACLE, 20A., 125V. MOUNT 18" A.F.F. U.N.O.
•	DUPLEX RECEPTACLE, MOUNTED 48" AFF OR 6" ABOVE COUNTER/BACKSPLASH REFER TO ARCHITECTURAL DRAWINGS FOR EXACT HEIGHTS U.N.O.
	GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE, 20A., 125V. MOUNT 18" A.F.F. U.N.O.
GFI	GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE, MOUNTED 48" AFF OR 6" ABOVE COUNTER/BACKSPLASH REFER TO ARCHITECTURAL DRAWINGS FOR EXACT HEIGHTS U.N.O.
	SPECIAL RECEPTACLE AS NOTED
ФЮ	OUTLET BOX (FLUSH MOUNT OR WALL MOUNTED)
20 30 ⁴	FUSED DISCONNECT SWITCH. DISCONNECT RATING AND FUSE SIZE GIVEN, FWE = FURNISHED $w/$ EQUIP.
5	MOTOR PERMANENTLY CONNECTED WITH FLEXIBLE CONDUIT (HORSEPOWER INDICATED)
	LIGHTING AND APPLIANCE PANELBOARD
\frown	CONDUIT, OR CABLE, CONCEALED IN WALL OR ABOVE CEILING
A-2	HOME RUN TO PANEL AND CIRCUIT INDICATED
	CONDUIT EXPOSED ON WALL OR CEILING
*	FLEXIBLE CONDUIT NOT TO EXCEED 6 FEET IN LENGTH
HANDICAPF	HEIGHTS SHOWN ARE MAXIMUM/MINIMUM PED ACCESSIBILITY STANDARDS – THEY SHALL TERED WITHOUT WRITTEN AUTHORIZATION.

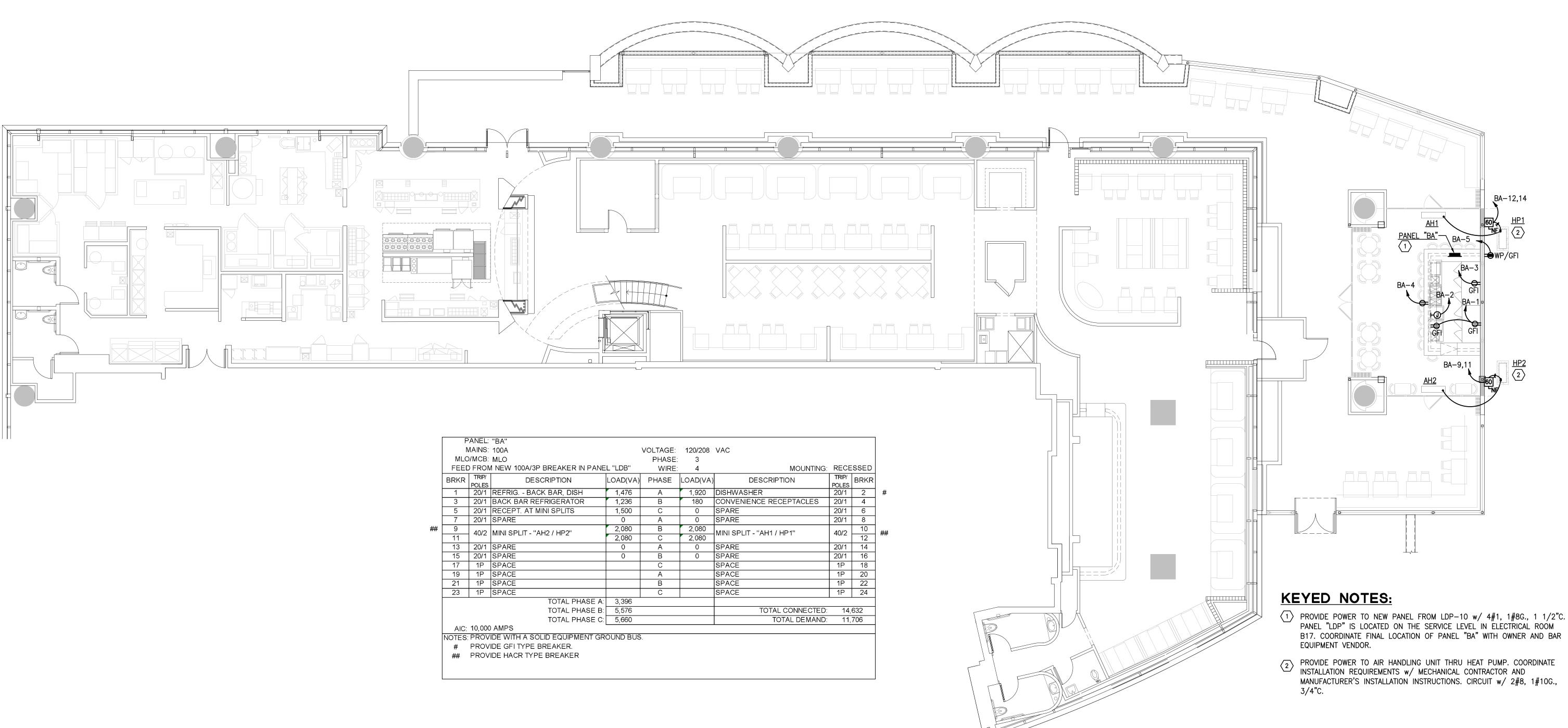
NOTE: MOUNTING HEIGHTS NOTED ARE TO CENTERLINE OF DEVICE SHOWN. U.N.O.

ABBR	EVIATIONS:
AFF	ABOVE FINISH FLOOR
EF	EXHAUST FAN
GFI	GROUND FAULT CIRCUIT INTERRUPTER
AH	AIR HANDLING UNIT
HP	HEAT PUMP
N.T.S.	NOT TO SCALE
U.N.O.	UNLESS NOTED OTHERWISE
WP	WEATHERPROOF

ALL LOW VOLTAGE SYSTEMS FOR THIS PROJECT SHALL BE PROVIDED AS "DESIGN BUILD" UNDER A SEPARATE CONTRACTS. THESE INCLUDE BUT ARE NOT LIMITED TO THE



E



	P	ANEL:	"BA"
	l N	/IAINS:	100A
	MLC	MCB:	MLO
	FEEC	FRON	I NEW 100A/3P BR
	BRKR	TRIP/	DESCRI
		POLES	
	1	20/1	REFRIG BACK B
	3	20/1	BACK BAR REFRI
	5	20/1	RECEPT. AT MINI S
	7	20/1	SPARE
##	9	40/2	MINI SPLIT - "AH2 ,
	11	40/2	
	13	20/1	SPARE
	15	20/1	SPARE
	17	1P	SPACE
	19	1P	SPACE
	21	1P	SPACE
	23	1P	SPACE
			T
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			T
	AIC:	10,000	AMPS
	NOTES:	PROV	IDE WITH A SOLID
	#	PROV	IDE GFI TYPE BRE.

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

- PANEL "LDP" IS LOCATED ON THE SERVICE LEVEL IN ELECTRICAL ROOM B17. COORDINATE FINAL LOCATION OF PANEL "BA" WITH OWNER AND BAR EQUIPMENT VENDOR.
- MANUFACTURER'S INSTALLATION INSTRUCTIONS. CIRCUIT w/ 2#8, 1#10G.,

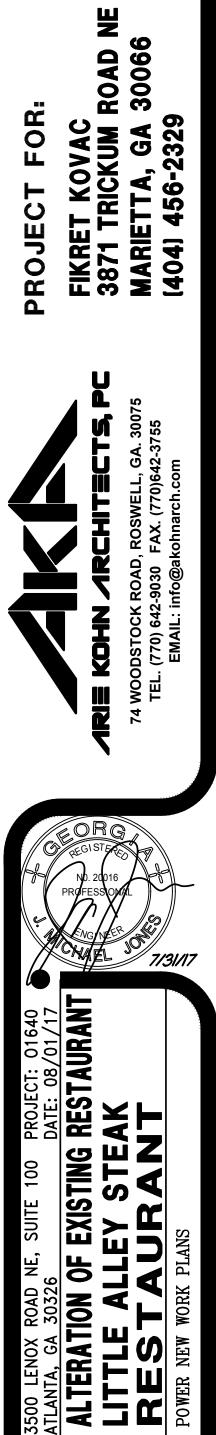
GENERAL NOTES:

POWER NEW WORK PLAN

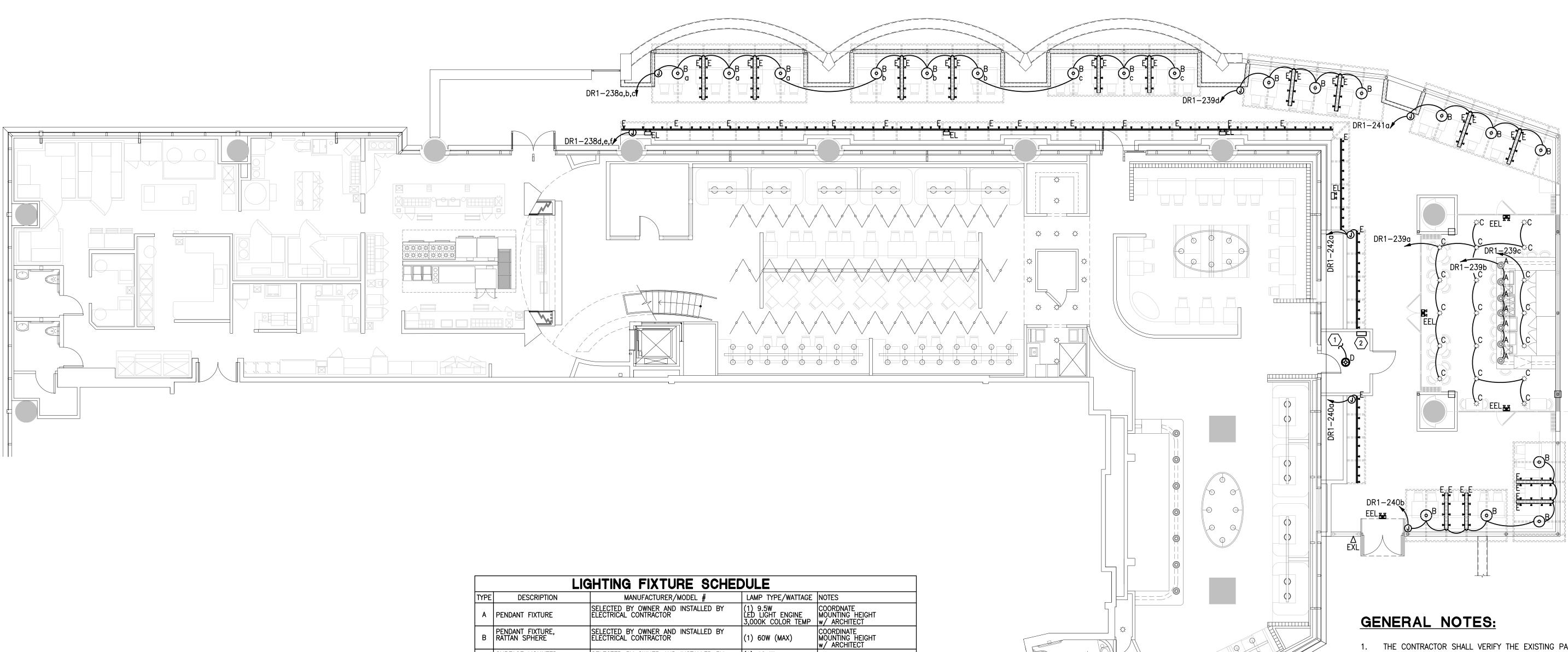
- 1. THE CONTRACTOR SHALL VERIFY THE EXISTING PANELS CAN ACCEPT THE NEW BREAKERS / LOADS INDICATED ON THESE PLANS. IF ANY DISCREPANCIES ARE FOUND THEY SHALL NOTIFY THE OWNER AND ENGINEER WITH-IN THE FIRST FIFTEEN (15) DAYS) AND PRIOR TO THE START OF ANY CONSTRUCTION OR DEMOLITION.
- 2. PROVIDE NEW TYPED DIRECTORIES IN ALL PANELBOARDS SERVING THIS SUITE INDICATING "AS-BUILT" CONDITIONS IN ACCORDANCE w/ NEC 408.4(A).
- 3. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL 20 AMP, 120 VOLT CIRCUITS THAT ARE MODIFIED IN THIS PROJECT DO NOT EXCEED 1,800 VOLT-AMPS CONNECTED LOAD.

THE CONTRACTOR SHALL FIELD VERIFY WITHIN 10 BUSINESS DAYS FROM NOTICE TO PROCEED THE EXISTING PANELBOARDS ARE IN GOOD WORKING ORDER AND CAN ACCEPT THE NEW BREAKERS SPECIFIED. IF ANY DISCREPANCIES ARE FOUND THEY SHALL NOTIFY THE OWNER AND ENGINEER IN WRITING OF ALL DISCREPANCIES FOUND.





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LIGHTING FIXTURE SCHEDULE				
TYPE	DESCRIPTION	MANUFACTURER/MODEL #	LAMP TYPE/WATTAGE	NOTES
Α	PENDANT FIXTURE	SELECTED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR	(1) 9.5W LED LIGHT ENGINE 3,000K COLOR TEMP	COORDNATE MOUNTING HEIGHT w/ ARCHITECT
В	PENDANT FIXTURE, RATTAN SPHERE	SELECTED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR	(1) 60W (MAX)	COORDINATE MOUNTING HEIGHT w/ ARCHITECT
С	SURFACE MOUNTED LIGHT FIXTURE	SELECTED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR	(1) 19 W LED LIGHT ENGINE 4,000K COLOR TEMP	
D	VESTIBULE CHANDELIER	SELECTED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR	75W (MAX)	COORDINATE MOUNTING HEIGHT w/ ARCHITECT
Ε	TRACK LIGHTING	SELECTED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR	MULTI HEAD MR16 LED 50W MAX	
EL	Emergency Lighting Unit w/ 90min Battery Back-Up	PHILIPS CHLORIDE MODEL #CAX6H	(2) 8.0W 6 VOLT MR16 FURNISHED w/ FIXTURE	WALL MOUNT 8'-6" A.F.F.
EEL	COMBINATION LED EXIT/2HD EMERGENCY EGRESS LIGHT	PHILIPS CHLORIDE MODEL #CCAX3RW	(2) 6.0W 6 VOLT MR16 FURNISHED w/ FIXTURE	WALL_MOUNT_CENTERED 1'0" ABOVE_DOOR
EXL	WET LISTED EMERGENCY LIGHTING UNIT w/ 90 MIN. BATTERY BACK-UP	PHILIPS CHLORIDE MODEL #PLEM* (*= FINISH PER ARCH.)	(8) 3.0W LED LAMPS FURNISHED w/ FIXTURE	MOUNT 8'-6" A.F.F.

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GHTING & CONTROL NOTES:

ALL LIGHT FIXTURES ARE TO BE SPECIFIED BY THE OWNER. UNLESS OTHERWISE SPECIFIED.

THE CONTRACTOR SHALL VERIFY THE VOLTAGE AND LOAD FOR ALL LIGHT FIXTURES TO BE INSTALLED AND NOTIFY THE OWNER, ARCHITECT, AND ENGINEER PRIOR TO THE INSTALLATION OF ANY CONCERNS REGARDING INSTALLATION PER THESE PLANS.

THE CONTRACTOR SHALL COORDINATE w/ THE VENDOR FOR THE EXISTING LIGHTING CONTROL SYSTEM TO PROVIDE THE PROPER CONTROL DEVICES TO GIVE THE OWNER THEIR DESIRED CONTROL OF THE LIGHTING.

LIGHTING NEW WORK PLAN SCALE: 1/8" = 1'-0"

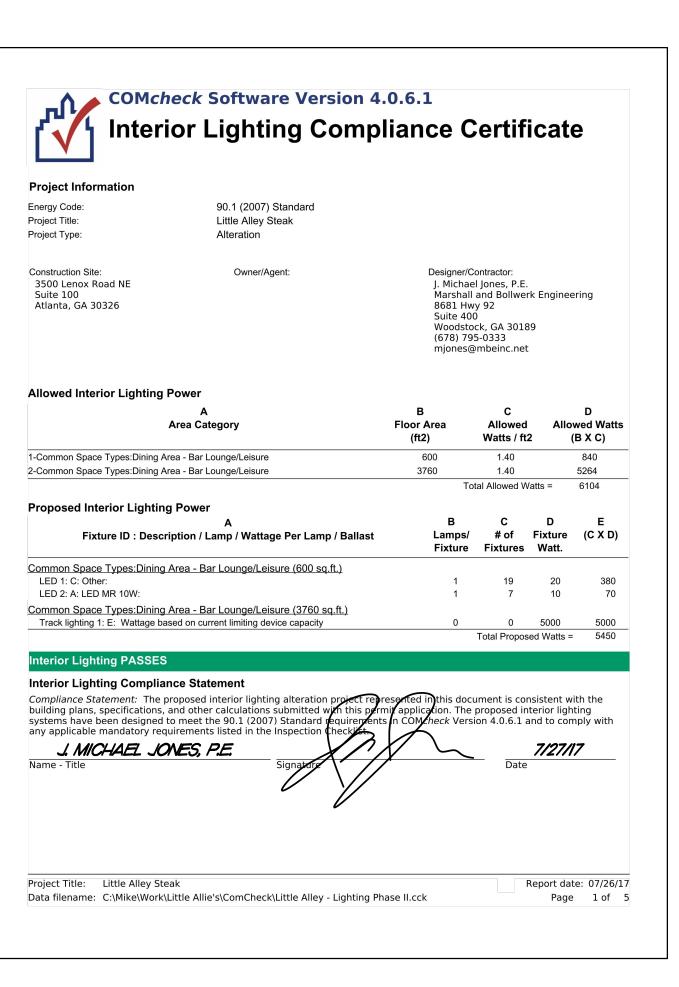
- THE CONTRACTOR SHALL VERIFY THE EXISTING PANELS CAN ACCEPT THE NEW BREAKERS / LOADS INDICATED ON THESE PLANS. IF ANY DISCREPANCIES ARE FOUND THEY SHALL NOTIFY THE OWNER AND ENGINEER WITH-IN THE FIRST FIFTEEN (15) DAYS) AND PRIOR TO THE START OF ANY CONSTRUCTION ÒR DEMOLÍTION.
- PROVIDE NEW TYPED DIRECTORIES IN ALL PANELBOARDS 2. SERVING THIS SUITE INDICATING "AS-BUILT" CONDITIONS IN ACCORDANCE w/ NEC 408.4(A).
- 3. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL 20 AMP, 120 VOLT CIRCUITS THAT ARE MODIFIED IN THIS PROJECT DO NOT EXCEED 1,800 VOLT-AMPS CONNECTED LOAD.
- 4. ALL EXISTING TO REMAIN LIGHT FIXTURES SHALL BE INSPECTED TO VERIFY PROPER OPERATION. IF REQUIRED, REPAIR OR REPLACE DAMAGED OR NON-WORKING FIXTURES.
- 5. ALL EXISTING TO REMAIN LIGHT FIXTURES SHALL BE CLEANED w/ A WARM MILD SOAP AND WATER SOLUTION AND RE-LAMPED NO MORE THAN 5 DAYS PRIOR TO TURNING OVER TO THE OWNER.
- 6. THE DIMMER RACKS AND PANEL "LA" ARE LOCATED ON THE MEZZANINE IN THE ELECTRICAL CLOSET (214).
- 7. CONNECT ALL EMERGENCY AND EXIT LIGHT FIXTURE TO THE EXISTING EMERGENCY LIGHTING CIRCUIT. FIELD VERIFY CIRCUIT NUMBER.

KEYED NOTES:

- (1) CONNECT TO THE EXISTING 120V LIGHTING CIRCUIT SERVING THIS AREA.
- 2 PROVIDE LIGHTING PRESET STATION SET-UP TO CONTROL THE ZONES AS DIRECTED BY THE OWNER'S REPRESENTATIVE.



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PROPERTY ARCHITECTS NOT BE US AND/OR MO WRITTEN CO	AWINGS ARE THE OF ARIE KOHN S, P.C. AND SHALL SED, REPRODUCED, ODIFIED WITHOUT ONSENT FROM ARIE CHITECTS, P.C.
PROJECT FOR: FIKRET KOVAC	3871 TRICKUM ROAD NE Marietta, ga 30066 (404) 456-2329
	ARE KOHN ARCHITECTS, PC 74 WOODSTOCK ROAD, ROSWELL, GA. 30075 TEL. (770) 642-9030 FAX. (770)642-3755 EMAIL: info@akohnarch.com
	DRG GISTERES D. 20016 FESSIONAL NGIVEES AL 7/3//17
3500 LENOX ROAD NE, SUITE 100 PROJECT: 010 ATLANTA, GA 30326 ALTERATION OF EXISTING RESTAUR.	LITTLE ALLEY STEAK RESTAURANT JGHTING NEW WORK PLANS



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Text in th requirem	e "Comments/Assumptions" column ent, the user certifies that a code re	is provided by th quirement will be	he user in the COMcheck Requirements screen. For e met and how that is documented, or that an exceptable, a reference to that table is provided.
Section #	Plan Review	Complies?	Comments/Assumptions
& Req.ID	Diana anacificationa and/ar		· · · · · ·
4.2.2 [PR4] ¹	calculations provide all information with which compliance can be determined for the lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and	Does Not Not Observable Not Applicable	
8.4.1.1.	control devices. Plans, specifications, and/or	□Complies	
8.4.1.2 [PR6] ²	calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Feeder connectors sized in accordance with approved plans and branch circuits sized for maximum drop of 3%.	□Comples □Does Not □Not Observable □Not Applicable	

Section #	Final Inspection	Complies?	Comments/Assumptions
& Req.ID 8.7.1 [FI16] ³	Furnished as-built drawings for electric power systems within 30 days	Complies	
	of system acceptance.	□Does Not □Not Observable □Not Applicable	
8.7.2 [FI17] ³	Furnished O&M instructions for systems and equipment to the	Complies	
	building owner or designated representative.	□Not Observable □Not Applicable	
9.2.2.3 [FI18] ¹	Interior installed lamp and fixture lighting power is consistent with what		See the Interior Lighting fixture schedule for values.
	is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	□Not Observable □Not Applicable	
Additiona	al Comments/Assumptions:	_i	i
	1 High Impact (Tier 1)	2 Medium Imp	act (Tier 2) <u>3</u> Low Impact (Tier 3)

Project Title: Little Alley Steak Data filename: C:\Mike\Work\Little Allie's\ComCheck\Little Alley - Lighting Phase II.cck

& Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
9.4.1.1 [EL1] ²		□Complies □Does Not	
0.4.1.0		Not Observable Not Applicable	
9.4.1.2 [EL2] ²	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.		
	······	□Not Applicable	
9.4.1.4 [EL4] ¹		□Complies □Does Not □Not Observable	
		Not Applicable	
9.4.2 [EL5] ³	with >30 W/lamp have two lamp tandem wired ballasts when >=2	□Complies □Does Not □Not Observable	
	control:	□ □Not Applicable	
9.4.3 [EL6] ¹		Complies Does Not	
		Not Observable Not Applicable	
9.6.2 [EL8] ¹		□Complies □Does Not	
	automatically controlled and	□Not Observable □Not Applicable	

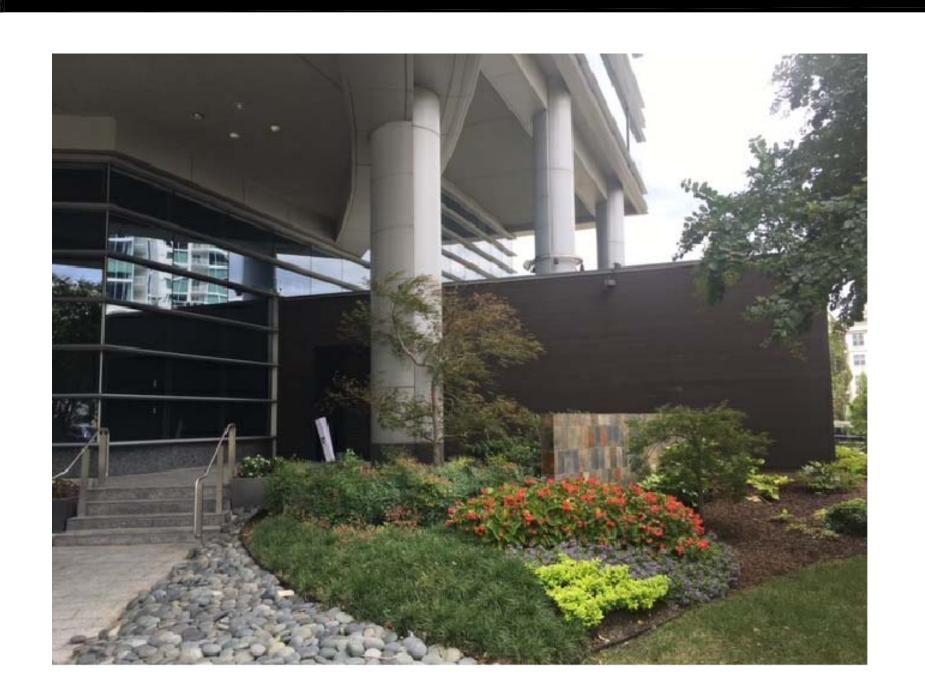
MARSHALL & BOLLWERK ENGINEERING, INC. 8681 Highway 92, Suite 400 Woodstock, Ga. 30189 p: (678) 795-0333, f: (678) 795-0063 e: mbe@mbeinc.net

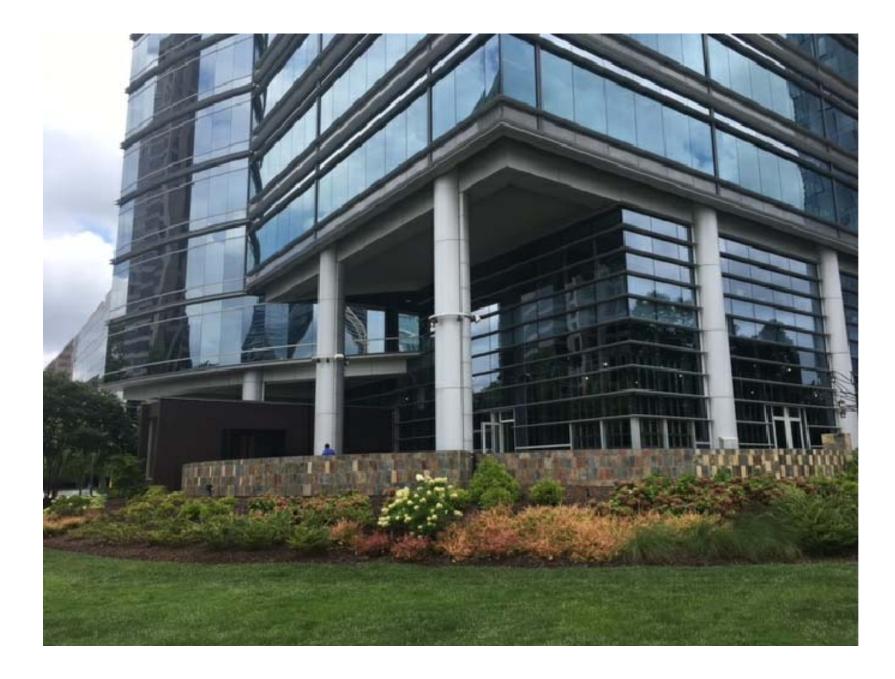
Report date: 07/26/17

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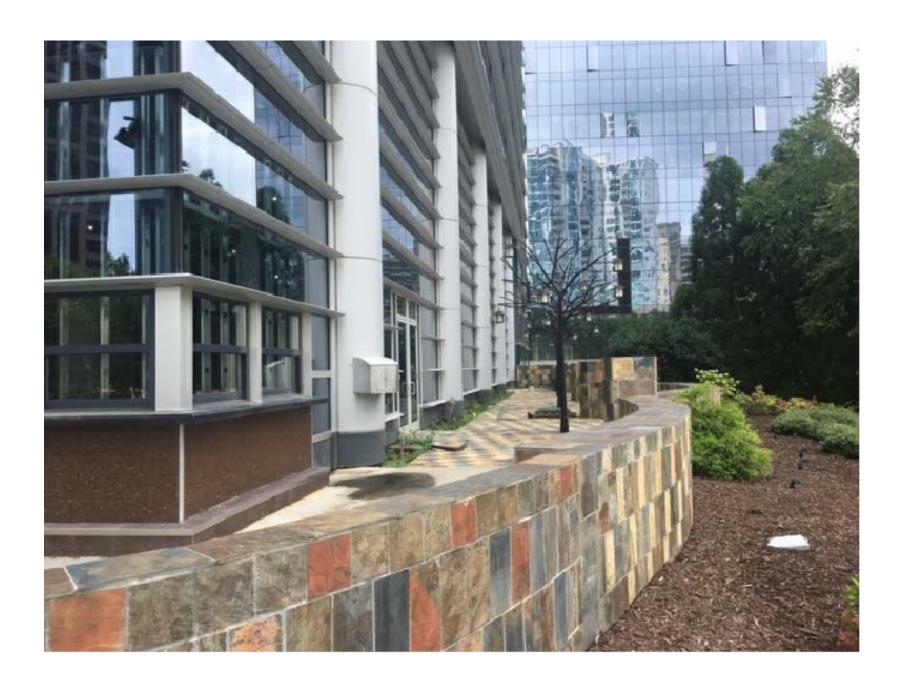






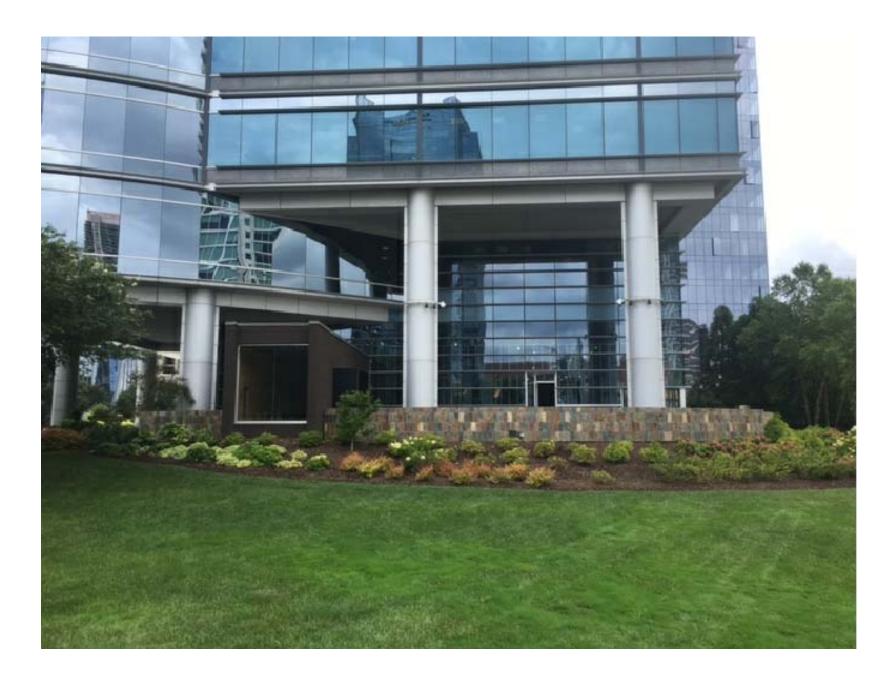














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