MOVE YOUR ENVIRONMENT FORWARD

April 18, 2016

Mr. Qu Qi, LG
Central Region Unit Supervisor
Inactive Hazardous Sites Branch
Superfund Section
NCDEQ–Division of Waste Management
Raleigh, North Carolina 27699-1601

RE: Vapor Intrusion Evaluation
Former AMP Site
1126 N. Church Street
Greensboro, Guilford County, North Carolina

Dear Mr. Qi:

This correspondence is in response to the NCDEQ's request for a vapor intrusion (VI) evaluation work plan regarding the former AMP facility located in Greensboro, North Carolina [NCD003467974]. Upon receipt of the NCDEQ's February 19, 2016 letter (Qi to Foster), TE contacted the developer of the property and confirmed that the on-site buildings were each constructed with sub-slab passive vapor recovery systems and incorporate vapor barriers (i.e., poly-sheeting).

TE obtained the enclosed documentation from the developer which depicts the construction specifications for the systems. The developer stated that all of the buildings were constructed in a similar manner. The enclosed photographs were taken during construction activities, and the provided plans pertain to Buildings 2 and 3. Plans for Building 1 could not be located by the developer. Note that the redevelopment of the property occurred approximately 10 years ago.

In summary, the documented presence of a passive sub-slab vapor recovery system beneath each building in combination with a poly-sheeting vapor barrier addresses the NCDEQ's VI concern. As such, the generation of a VI assessment work plan is not warranted.

We appreciate your consideration of the aforementioned information and the enclosed documents. Please do not hesitate to contact me at 800-752-3922 with any further questions or concerns. Thank you for your time and have a good afternoon.

Sincerely,
HRP Associates, Inc.

Shaun C. Malin, LG, RSM
Regional Manager

Enclosures

Cc: Mr. Gene Mao (Guilford County Division of Environmental Health)
Mr. Glen Foster (TE Connectivity)

LITTLE
DIVERSIFIED ARCHITECTURAL CONSULTING

Letter of Transmittal

From:	Date:	Job Number:
Little Diversified Architectural Consulting 410 Blackwell St., Ste. 10 Durham, NC 27701	6/28/06	532-8437-00
	Attention: Channing Chrismon	
To: Landmark 3520 Triad Court Winston-Salem, NC 27107	Re: Church Street MOB	

WE ARE SENDING YOU:

☒ Attached ☐ Under separate cover via the following items:

☒ Shop Drawings ☐ Prints ☐ Samples ☐ Specifications
☐ Copy of Letter ☐ Change Order ☐ Other

Copies	Date	Number	Description	Action Req'd
4			Concrete Accessories submittal	

THESE ARE TRANSMITTED AS CHECKED BELOW:

☐ For approval
☐ For your use
☐ As requested
☐ For review and comment
☐ For bids due _____

☒ Reviewed
☐ Rejected
☐ Furnish as Corrected
☐ Not marked

☐ Revise and Resubmit
☐ Submit ___ copies for distribution
☐ Return ___ corrected prints
☐ Prints returned after loan to us

REMARKS:

COPY TO

file

Signed: Tim Brixey
Printed Name: Tim Brixey
Email:

If enclosures are not as noted, please notify us.

Administration

TEX-TRUDE

ASTM Specifications

All 4 mil (.004), 6 mil (.006), 8 mil (.008), and 10 mil (.010) full weight polyethylene construction film manufactured by Tex-Trude and bearing the Tex-Trude label only, meets the criteria established in Product Standard 17-69.

The polyethylene film manufactured by Tex-Trude, which includes clear, black, and white, when tested meets or exceeds the standard of ASTM D397, D4329, D2103, D1922, D1709, D1505, D1238, D882, D638, C171, and C156. Tex-Trude also certifies that its full weight polyethylene construction film, as per ASTM E154, is resistant to deterioration and that the permeability factors for the mil thickness identified above have been established at 0.046 +/- 0.0029 as tested by ASTM E96. The permeability factor is based on the material content and therefore remains constant.

Please call with any additional questions or concerns.

ASTM References:

D4397 - Specifications for polyethylene sheeting in construction, industrial, and agricultural applications.

D4329 - Exposure of plastics to fluorescent ultra violet light and condensation.

D2103 - Specification for polyethylene film and sheeting.

D1922 - Propagation tear resistance of plastic film and sheet by pendulum method.

D1709 - Impact resistance of plastic film by free-falling dart method.

D1505 - Density of plastics by gradient technique.

D1238 - Flow rates of plastics by extrusion plastometer.

D882 - Tensile properties of plastic sheeting.

D638 - Tensile properties of plastics.

C171 - Specifications for sheeting in curing concrete.

C156 - Specifications for water retention when curing concrete.

E154 - Water vapor retarders in contact with earth, under concrete slabs, on walls, or as ground cover.

E96 - Water vapor transmission of materials.

LANDMARK BUILDERS OF THE TRIAD, INC.

Reviewed for compliance with contract drawings and specifications. This review is not to be construed as relieving the vendor from compliance with nor the architect and engineer from responsibility for the plans and specifications.

APPROVED ☑

APPROVED AS NOTED ☐

NOT APPROVED ☐

DATE 6/19/08

REVIEWED BY PW

Photo 1: Example of vapor piping installation and building slab construction

Photo 2: Example of vapor piping installation

Photo 2: Example of vapor piping

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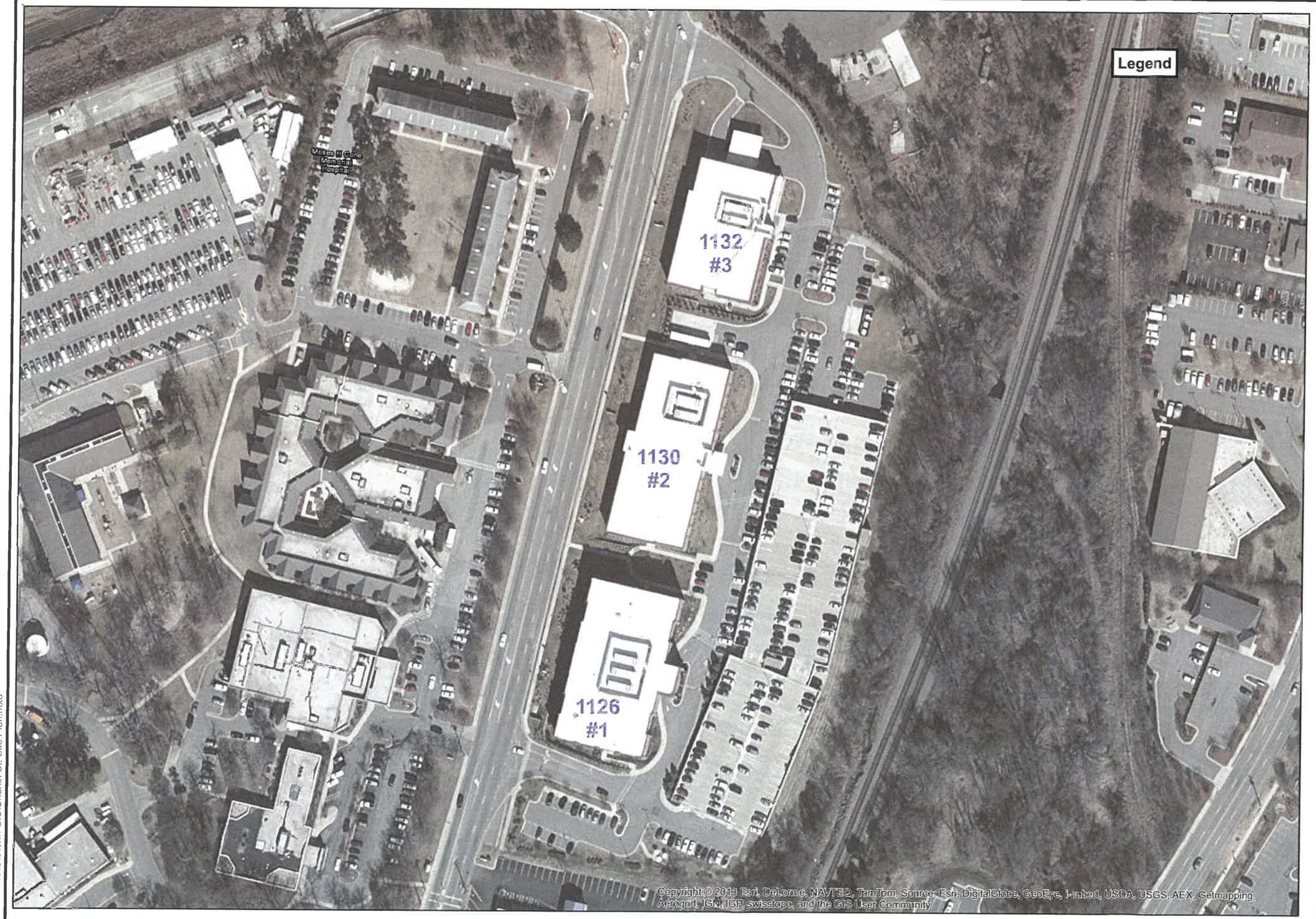


HRP
MOVE YOUR ENVIRONMENT FORWARD
1327 MILLER ROAD
SUITE D
GREENVILLE, SC 29607
(864) 289-0311
HRPASSOCIATES.COM

North

0 75 150 Feet

Revisions	
No.	Date

Issue Date: 04/13/2016	Designed By: GSC	
Project No: TYC2036.GW	Drawn By: GSC	
Sheet Size: 11x17	Reviewed By: SCM	

Site Plan

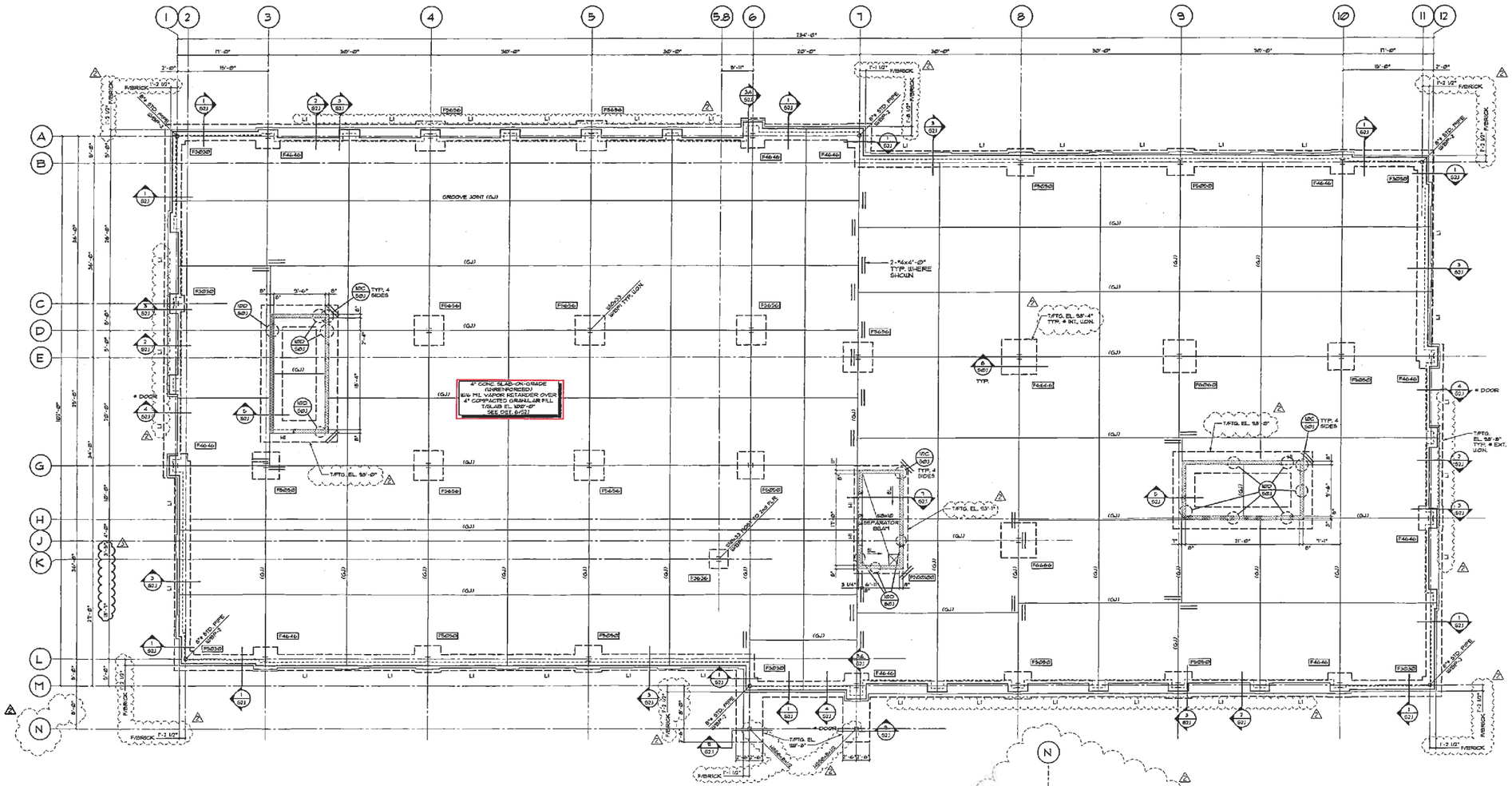
Church Street
Greensboro, NC 27401

FIGURE NO.

1

Path: C:\GIS\Storm GIS\Church St. Site Plan.mxd

Document Path: C:\GIS\Storm GIS\Church St. Site Plan.mxd

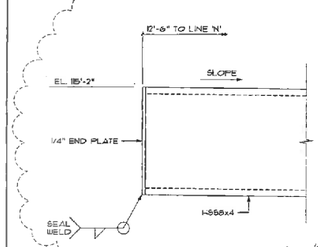


FOUNDATION AND SLAB PLAN

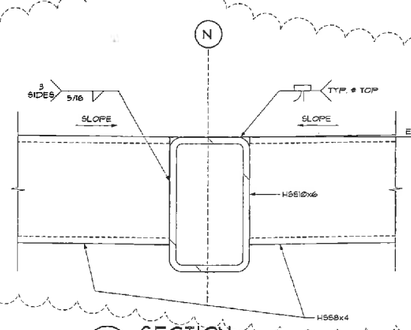
SCALE 1/8 "=1'-0"

NOTES

1. ELEVATION "100.00" PER CIVIL DWG. EQUALS DATUM ELEVATION 100'-0". COORDINATE ACTUAL ELEVATION WITH ALL DATUM ELEVATIONS SHOWN HEREIN.
2. FOR DESIGN CRITERIA AND GENERAL NOTES, SEE SHEET S0.1
3. [ ] DENOTES SPREAD FOOTING TYPE, SCHEDULE IS ON THIS SHEET.
4. FOR SLAB DEPRESSION LOCATIONS, SEE ARCH.
5. L1 DENOTES LINTEL. SEE SCHEDULE ON SHEET S0.1.
6. FOR BASE PLATES AND ANCHOR BOLT DETAILS, SEE DETAIL 9/S2.1.



4 S1.1 SECTION
SCALE 3" = 1'-0"



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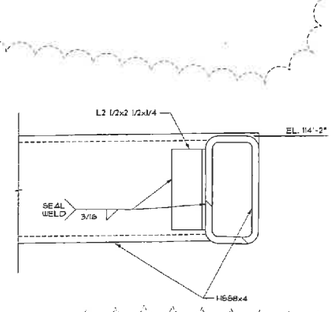
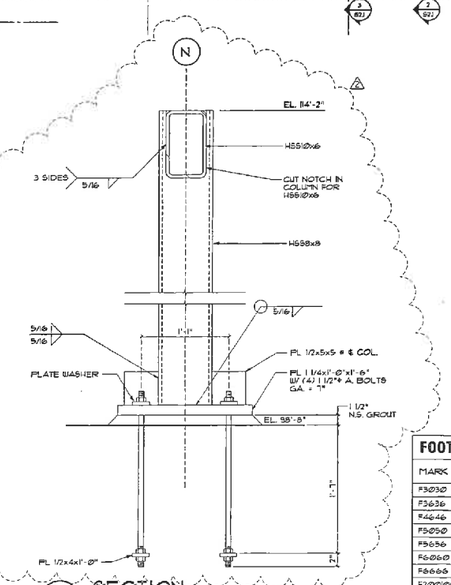
SCALE 3" = 1'-0"



2 S1.1 SECTION
SCALE 3" = 1'-0"



1 S1.1 SECTION
SCALE 1 1/2" = 1'-0"

NOTE -
STEEL FRAMING SHOWN IN SECTIONS 1 THRU 4 ARE ARCHITECTURALLY EXPOSED MEMBERS. ALL WELDS SHALL BE GROUND SMOOTH. ALL BURRS SHALL BE REMOVED. STEEL SHALL BE PREPARED FOR FINISH PAINTING.

FOOTING SCHEDULE – BUILDING

4,000 PSF BEARING

MARK	SIZE	DEPTH	REINFORCING EA. WAY		REMARKS
			LONG BARS	SHORT BARS	
F3030	3'-0"x3'-0"	1'-0"	4-#4	4-#4	
F3636	3'-6"x3'-6"	1'-0"	5-#4	5-#4	
F4646	4'-6"x4'-6"	1'-2"	5-#5	5-#5	
F5050	5'-0"x5'-0"	1'-2"	6-#5	6-#5	
F5656	5'-6"x5'-6"	1'-4"	5-#6	5-#6	
F6060	6'-0"x6'-0"	1'-4"	6-#6	6-#6	
F6666	6'-6"x6'-6"	1'-6"	7-#6	7-#6	
F20010100	20'-0"x10'-0"	2'-0"	11-#9	21-#8	REINF. T&B

LITTLE
UNEXPECTED ARCHITECTURAL CONSULTING
American Tobacco Historic District
101 W. Main Street Suite 101 Durham NC 27701
T: 919.471.2600 F: 919.419.2962
www.littleonline.com

Triad Design Group
ARCHITECTURE
ENGINEERING
PLANNING
INTERIOR DESIGN
4807-C Koger Boulevard
Greensboro, NC 27407
Telephone 336-218-8282
Fax 336-218-8010
www.triad-designgroup.com

TDG Project No. 04-020

NORTH CAROLINA PROFESSIONAL SEAL 18840 ENGINEER MARK J. DAVIS

AUGUST 10, 2006

PROJECT NAME
Marshall Medical Office Building

PROJECT TEAM
PRINCIPAL IN CHARGE
Mark Davis

PROJECT MANAGER
Allan Hill

DRAWN BY
Fineline Cad

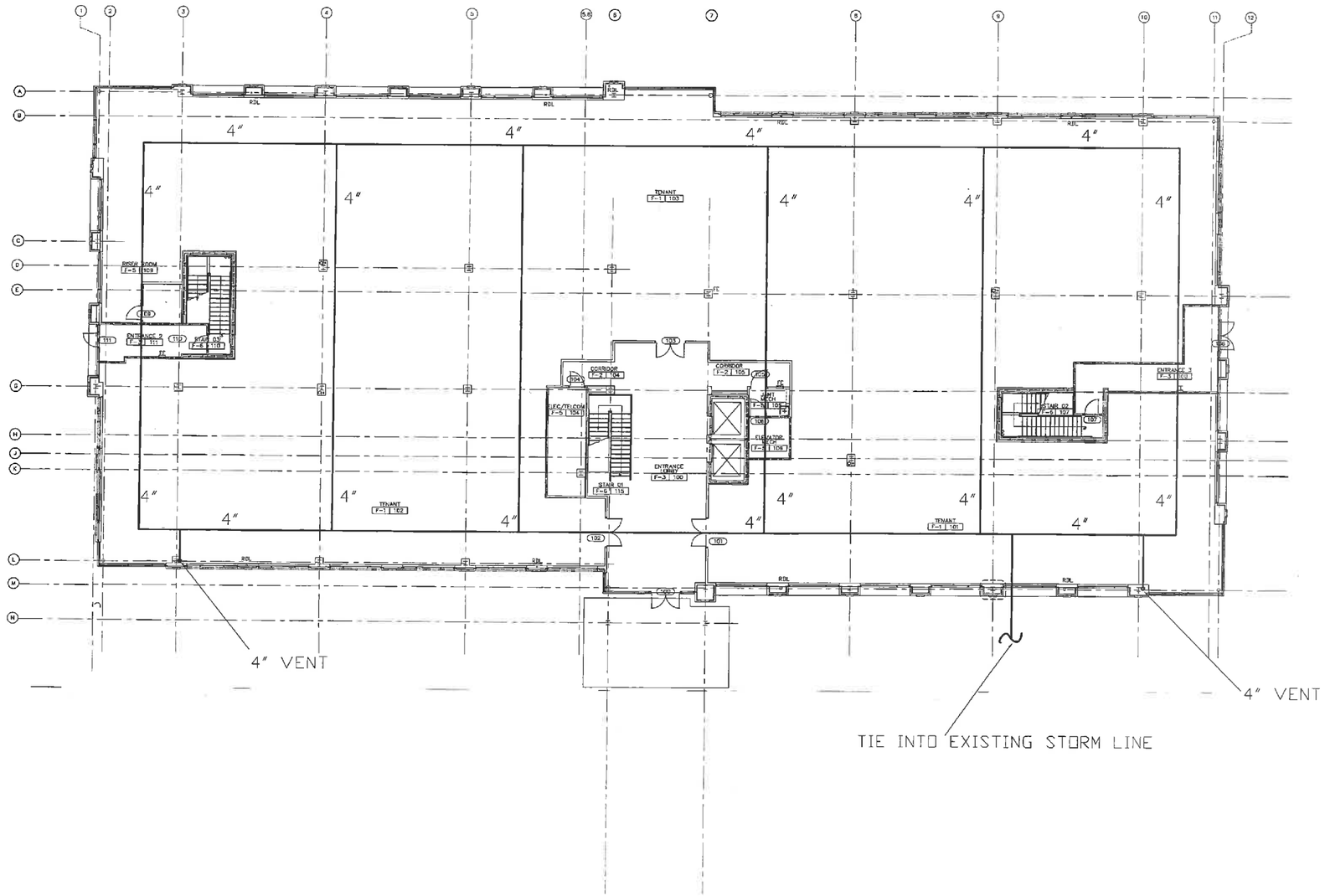
REVISIONS

NO.	REASON	DATE
1	OWNER REVISIONS	11-29-06
2	VALUE ENGINEERING	07-13-06
3	GENERAL REVISION	06-15-06

SHEET TITLE
Foundation & Slab Plan

PROJECT NO.
532.8437.00

ISSUE DATE	SHEET NUMBER
02.03.05	S1.1 R3



NOTES:

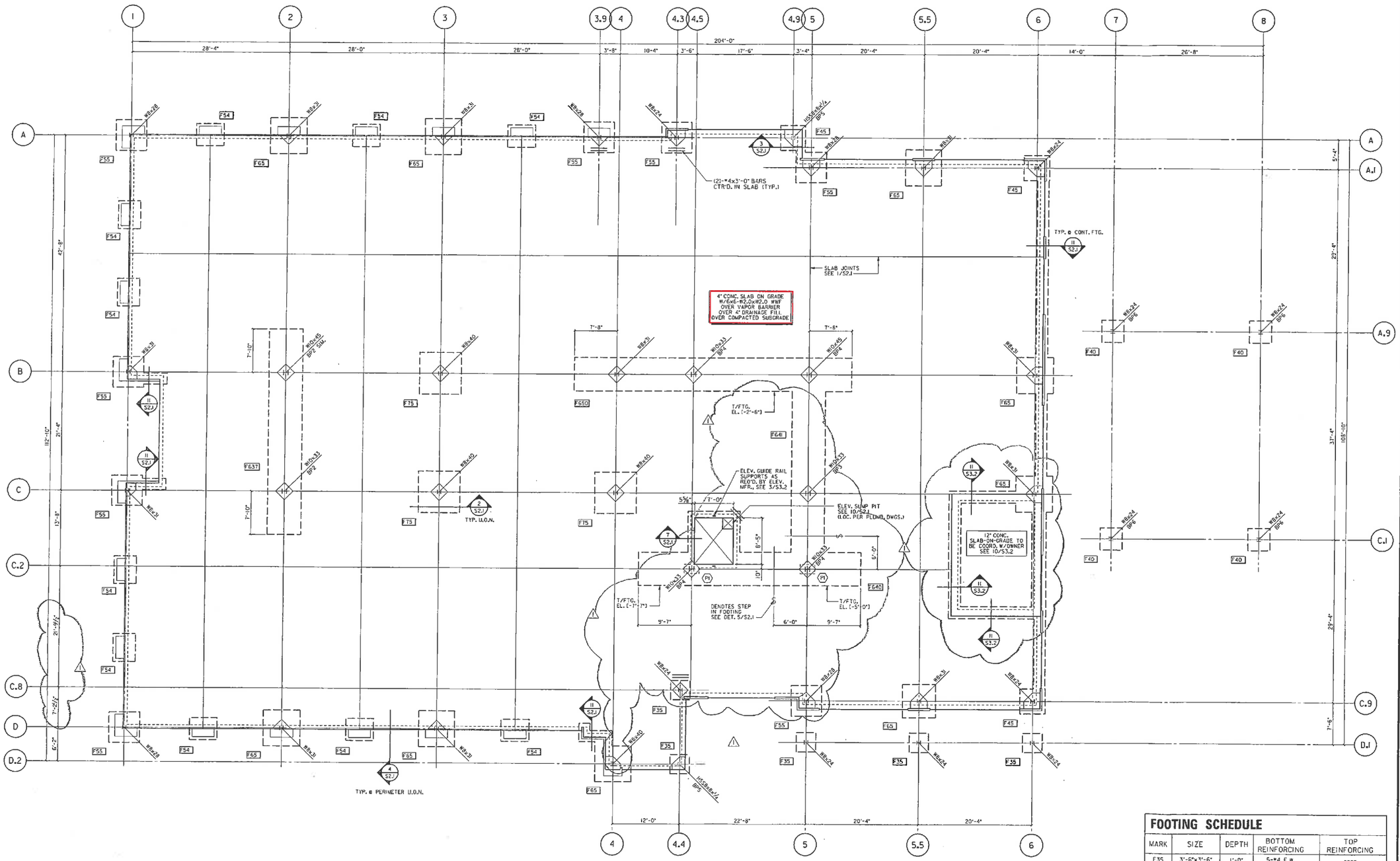
1. FURNISH AND INSTALL AN UNDER SLAB VAPOR RECOVERY SYSTEM CONSISITING OF 4" PERFORATED PVC PIPE IN A WASHED STONE BEDDING WRAPPED WITH FILTER FABRIC. THE LAYOUT WILL BE SIMILAR TO THE SYSTEM PROVIDED IN BUILDING #1

RANSONE & SON PLUMBING, INC.
PO BOX 789
COLFAX, NC 27235

CHURCH STREET MEDICAL CENTER
BUILDING #2
GREENSBORO, NC

REVISIONS	BY

DRAWN BY: DWZ
CHECKED BY: TLH
DATE: 7/19/06
SCALE: NTS
JOB NUMBER: JOBNUM
SHEET NUMBER: 1
OF: TOTSHEETS



FOUNDATION AND SLAB PLAN

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

NOTES:

1. TOP OF SLAB DATUM ELEVATION EQUALS [+0'-0"]. SEE CIVIL FOR ACTUAL ELEVATION.
2. TOP OF FOOTING ELEVATION MIN. [-1'-4"] U.O.N. STEP FOOTING AS REQUIRED TO MAINTAIN TOP OF FOOTING AT LEAST 8" BELOW GRADE. SEE 5/S2.1.
3. "BP#" DENOTES BASE PLATE TYPE. TYPE BP1 IS TYP. U.O.N. SEE 8/S2.1.
4. ALL EXTERIOR METAL STUD WALLS SHALL BE FRAMED WITH 8" - 18 GA. STUDS @ 16" O.C. U.O.N. ON ARCH DWGS. SEE NOTE 19 UNDER GENERAL NOTES ON S6.1.
5. "Fxx" DENOTES FOOTING TYPE. SEE SCHEDULE ON THIS SHEET.
6. "Px" DENOTES PIER TYPE. SEE 6/S2.1.

FOOTING SCHEDULE

MARK	SIZE	DEPTH	BOTTOM REINFORCING	TOP REINFORCING
F35	3'-6"x3'-6"	1'-0"	5-#4 E.W.	----
F40	4'-0"x4'-0"	1'-3"	5-#4 E.W.	5-#4 E.W.
F45	4'-6"x4'-6"	1'-0"	6-#4 E.W.	----
F55	5'-6"x5'-6"	1'-1"	6-#5 E.W.	----
F65	6'-6"x6'-6"	1'-4"	6-#6 E.W.	----
F75	7'-6"x7'-6"	1'-6"	7-#6 E.W.	----
F54	5'-0"x4'-0"	1'-0"	5-#4 LONG BARS 7-#4 SHORT BARS	----
F637	6'-0"x37'-0"	1'-9"	11-#9 LONG BARS 38-#6 SHORT BARS	11-#9 LONG BARS 38-#6 SHORT BARS
F640	6'-0"x40'-0"	1'-9"	13-#9 LONG BARS 41-#6 SHORT BARS	13-#9 LONG BARS 41-#6 SHORT BARS
F641	6'-0"x41'-0"	1'-9"	9-#8 LONG BARS 42-#6 SHORT BARS	9-#8 LONG BARS 42-#6 SHORT BARS
F650	6'-0"x50'-0"	1'-9"	9-#9 LONG BARS 53-#6 SHORT BARS	9-#9 LONG BARS 53-#6 SHORT BARS

STRUCTURAL SOLUTIONS, P.A.
Structural Engineering ▪ Investigations ▪ Consulting
5921-G West Friendly Avenue
Greensboro, North Carolina 27410
Phone (336) 856-2686 Fax (336) 856-2687

STRUCTURAL SOLUTIONS, P.A. CORPORATE SEAL 1994 N.C.

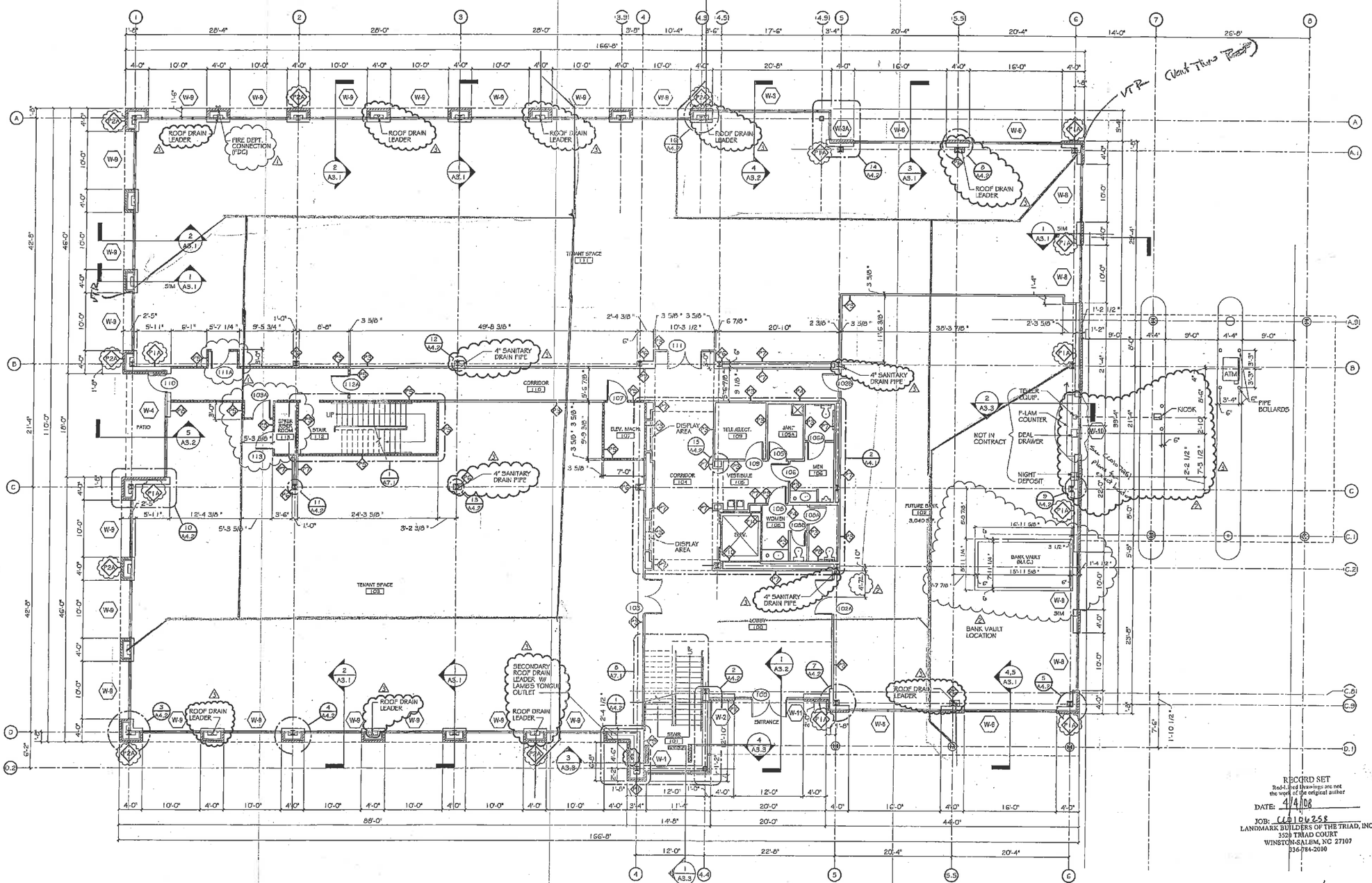
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 14564 THOMAS L. SHELMERDINE

CHURCH STREET III
LINDBROOK MEDICAL BUILDING
CHURCH STREET
GREENSBORO, N.C.

GEN. REV. 4-19-07
3-26-07 PERMIT SET
Mk Date Description
Revisions

FOUNDATION AND SLAB PLAN

Date 3-26-07
Dwg.By FINELINE Cad Services
Ck.By T.L.S.
File No. 06-028
Sheet
S1.1 R1



RECORD SET
Red-lined drawings are not the work of the original author
DATE: 4/4/08
JOB: 110106258
LANDMARK BUILDERS OF THE TRIAD, INC.
3520 TRIAD COURT
WINSTON-SALEM, NC 27107
336-784-2080

7/25/07
VR-1

FIRST FLOOR PLAN 1 / A1.1
SCALE: 1/8" = 1'-0"

BRADLEY & BALL ARCHITECTS
5921-H WEST FRIENDLY AVE
GREENSBORO, N.C. 27410
(P) 336-294-0504 (F) 336-294-5032

ISSUED FOR CONSTRUCTION

CHURCH STREET III
LINDBROOK MEDICAL BUILDING
CHURCH STREET
GREENSBORO, NC

Revisions
1 4-16-2007
2 5-2-2007 - ISSUED FOR CONSTRUCTION
3 5-22-2007

Mk	Date	Description

FIRST FLOOR PLAN

Date 3-26-2007
Dwg.By DAS
Ck.By EAB
File No. 06044
Sheet A1.1