# Municipal Operation & Consulting, Inc. Oak Ridge Phase 2 (Two) of 2 (Two) 27312 Spectrum Way Oak Ridge, Texas 77385

Project For: MOCI 312 Spring Hill Drive Suite 100 Spring, TX 77386

Land Owner: Texas Equity Ventures, LLC 14115 Kenson Lane Cypress, Texas 77429

#### PROJECT ANALYSIS

Jurisdiction Oak Ridge North City: County: Montgomery

Agency Information MCAD Account Number-R425980 Oak Ridge Existing Occupancy Number N/A TAS Project Number-EABPRJ-B5816992

### Land Legal

S764200 - Oak Ridge North Commerce Park, BLOCK 4, RES I-3 (REPLAT NO 5 & REPLAT NO 6 BLOCK 1, RES E #2012045734, #2013037100), ACRES 1.3437 Code Information

International Building Code, 2009 Edition International Fire Code, 2009 Edition Mechanical Code, 2009 Edition Plumbing Code, 2009 Edition NFC 2014 Texas TAS 2012 Standards City of Oak Ridge Additions, Insertions, Deletions, and Changes To International Building Code 2009 Edition.

#### Zoning Information

Zone Classification=M-2/Medium Manufacturing Zone Tract=15 (47.03 Acres) Parking Class=Office Parking Required = 8 (2.5 Per 1,000 Sq Ft) Parking Provided = 8 of 77 (69 Spaces Required and Provided for Phase One 27312 Spectrum Way under separate application) (TAS Table 208.2) ADA Spaces Required (77 spaces) = 4/4 (TAS 208.2.4) ADA Van Accessible Spaces Required/Provided = 1/1

#### Occupancy

(302.1) Classification=Type B(S2) (508.2) Separation=Mixed Use Non-Separated B Occupancy (602.1) Construction Type=Type Existing and Proposed II-B Unprotected/55 feet Max Height (Table 503) Allowable Floor Area= (B)23,000 Sq Ft (506.3) Allowable Increase= Not Required

Actual Gross Floor Area=6,233 Sq Ft Ground Level=6,233 Sq Ft Actual Building Height=20.583 Feet

#### Fire Resistant Rating ([F] 903.2.1.3,3) Wet Fire Sprinkler Protection: Not Required ([F] 903.4) Fire Alarm System: Proposed (New) Not Required

(Table 602) Separation for Bearing and Non Bearing Exterior Walls North Wall 38 feet = 0 Hour East Wall 63 Feet = 0 Hour South Wall 14 Feet = 0 Hour West Wall 74 Feet = 0 Hour

## (Table 601)

Primary Structural Frame: 0 Hour Interior Bearing Wall: 0 Hour Interior Nonbearing Partitions: 0 Hour Floor & Floor/Ceiling Constructions: 0 Hour Roofs & Roof/Ceiling Constructions: 0 Hour

#### Occupant Load Total Occupancy: 90

(1014.3) Longest Common Path of Egress Travel (CPE) 75ft max: 55' (1016.1) Longest Exit-Access Length of Travel 200ft max: 151 feet Egress Width 0.2" per occupant: Stair Egress Width 0.3" per occupant: NA Min Egress width: 36" Min Exit Egress Width: 18"

#### PROJECT DESCRIPTION

A new tenant build out and new building for a water utility district operator company to be built in a new pre-engineered metal shell building. The site parking and paving are constructed on existing 1.34 acres. The Air Conditioned Office/Training area is 2,475 SQ FT, Non AC Warehouse of 3,758 SQ FT, for a total building area of 6,233 SQ FT.

#### **GENERAL PLAN NOTES:**

- The general notes and/or drawings are supplied to illustrate the design and the general type of construction desired and are intended to imply the finest quality of construction, material and workmanship throughout The contractor, upon acceptance and acceptance of the drawings assumes full responsibility for the construction, materials and workmanship of the work.
- The general contractor and/or all subcontractors shall visit the project prior to construction. This on-site review of the job site shall entail a complete investigation of all existing conditions, both as it relates to the construction documents and the existing conditions. Recognition of any conflicts between the construction documents and existing conditions shall be itemized when submitting the scope of work.
- The contractor shall notify the designer of any errors or omissions in the drawings or specifications or any discrepancies between the drawings or specifications and field conditions before commencing any work and request further clarifications.
- All work shall conform and be installed according to all local and national laws; codes, regulation, etc, applicable to the work and the rules regulations of other authorities having jurisdiction over the work. The work shall not commence until plans have been accepted by the governing agencies having jurisdiction.
- Provide complete operating systems, including items (installation) not necessarily specified or shown in these documents, but can be reasonably inferred as being necessary.
- All materials and construction shall conform to the manufactures specifications used on the project. The contractor shall submit detailed shop drawings and samples o
- materials or finishes to the Designer/Owner for acceptance prior to starting any construction or fabrication. All shop drawings, samples or finishes accepted by the Designer/Owner shall supersede any originating drawings. The contractor shall assume responsibility for all errors in their drawings affecting the integrity of their fabrications. Do not scale drawings. If dimensions are in question, the Contractor
- shall be responsible for obtaining written clarification from the Owner/Designer prior to continuing with work that is in question. Demolition may be required not specifically mentioned in these

documents.

ENERGY CODE NOTES:

- Air Leakage, Component Certification, and Vapor Retarder Requirements All joints and penetrations are caulked, gasketed or covered with a moisture vapor-permeable
- wrapping material installed in accordance with the manufacturer's installation instructions. Windows, doors, and skylights certified as meeting
- leakage requirements Component R-values & U-factors labeled as
- certified.
- No roof insulation is installed on a suspended ceiling with removable ceiling panels.
- 'Other' components have supporting
- documentation for proposed U-Factors. Insulation installed according to manufacturer's instructions, in substantial contact with the surface being insulated, and in a manner that achieves the rated R-value without compressing
- the insulation. 7. Stair, elevator shaft vents, and other outdoor air intake and exhaust openings in the building
- envelope are equipped with motorized dampers. Recessed lighting fixtures installed in the building envelope are Type IC rated as meeting ASTM E283, are sealed with gasket or caulk.



Phase 1 (One) 27316 Spectrum Way Oak Ridge, Texas 77385 (Under Separate Permit)

Sheet List					
Sheet Number	Sheet Name	Sheet Issue Date	Current Revision	Sheet Order	
MEP	MEP Cordination	04/30/15			
A0.00	Cover and Information Sheet	06/04/15		1	
A0.10	Code Review Sheet	06/04/15		2	
A0.20	Legends	06/04/15		3	
A0.50	Partition Details	06/04/15		4	
A0.90	ADA Notes	06/04/15		5	
A1.30	Site Plan	06/04/15		6	
A2.30	Floor Plan	06/04/15		7	
A3.30	Reflective Ceiling Plan Level 1 Ground	06/04/15		8	
A4.30	Exterior Elevations	06/04/15		9	
A5.30	Interior Elevations	06/04/15		10	
A5.31	Interior Elevations	06/04/15		11	
A6.30	Building Sections	06/04/15		12	
A7.30	Schedules	06/04/15		13	
C1	Civil Cover Sheet	06/04/15		14	
C2	Civil Survey	06/04/15		15	
C3	Fire Lane Plan	06/04/15		16	
C4	Grading Plan	06/04/15		18	
C5	SWPPP Site Plan	06/04/15		19	
C6	Notes & Details	06/04/15		20	
C7	Notes & Details	06/04/15		21	
C8	Civil Details	06/04/15		22	
D2	Drainage Area Map	06/04/15		23	
D3	SWPPP Details	06/04/15		24	
S1.0	Foundation Plan	06/04/15		25	
\$2.0	Foundation Details	06/04/15		26	
MEP1	General MEP Notes	06/04/15		27	
M1	Mechanical Plan	06/04/15		28	
M2	Mechanical Notes & Details	06/04/15		29	
P1	Plumbing Plan	06/04/15		30	
P2	Plumbing Riser Diagram	06/04/15		31	
P3	Plumbing Notes and Details	06/04/15		32	
E1	Electrical Power Plan	06/04/15		33	
E2	Lighting Plan	06/04/15		34	
E3	One line Diagram and Notes	06/04/15		35	
E4	Schedules	06/04/15		36	

#### SUPPORTING CONSULTANTS

#### Structural Engineering

R-MAC Engineering Co TX Reg Firm F-11358

P.O. Box 7827 The Woodlands, TX 77387 281.367.7761 PRJ M15014

#### Geotechanical

PRJ 9206553

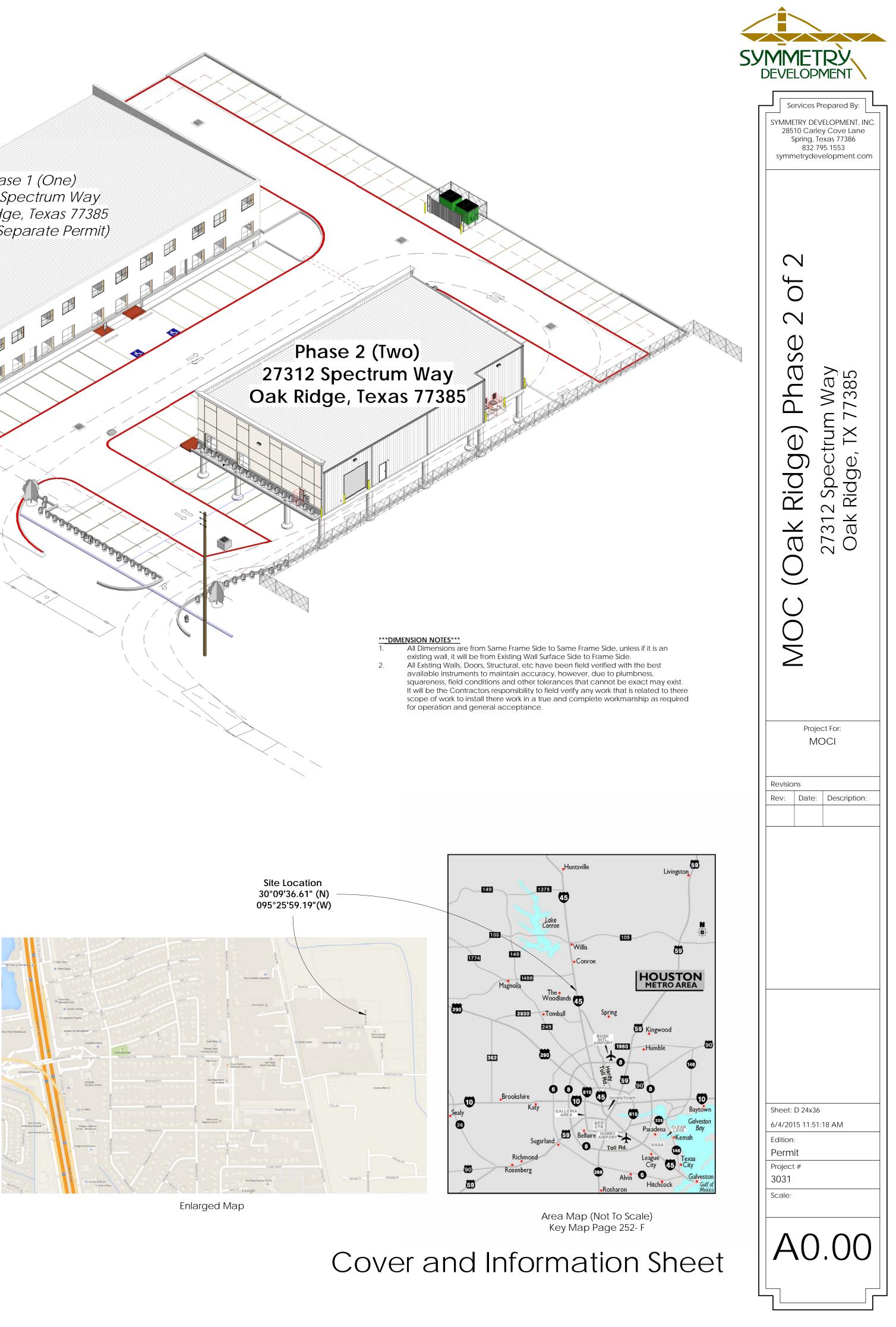
Terracon 11555 Clay Road, Suite 100 Houston, TX 77043 713.690.8989

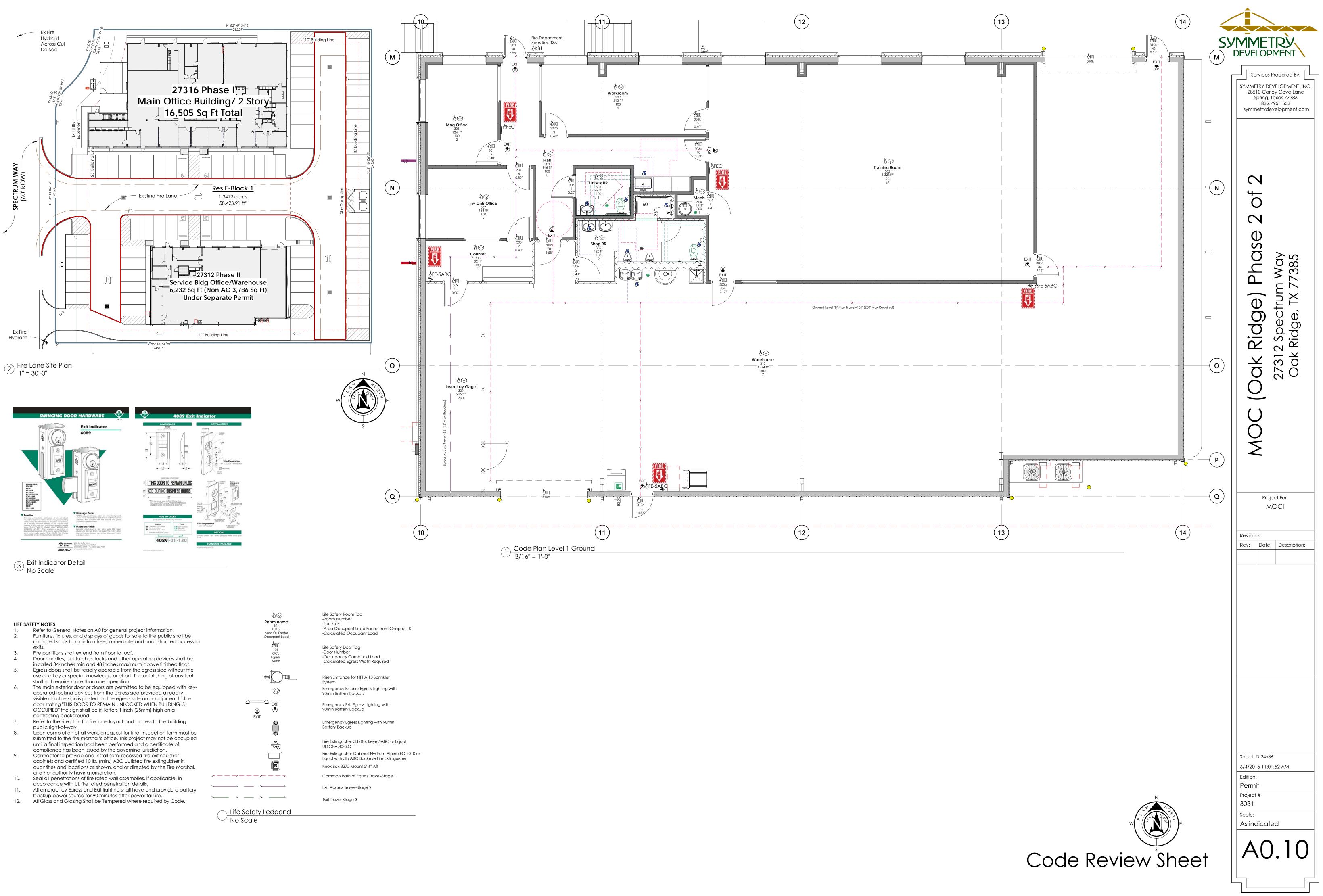
MEP Engineering M.S. Esiere Engineers

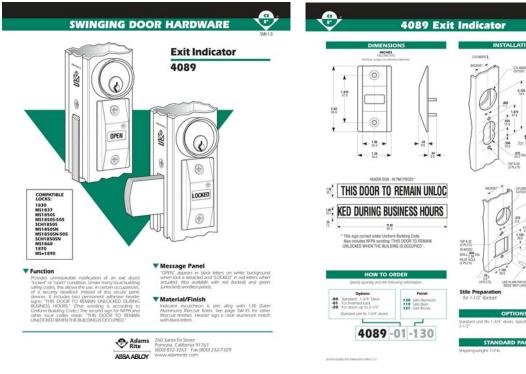
435 Murphy Road, #B1-136 Stafford, TX 77477 281.713.1957

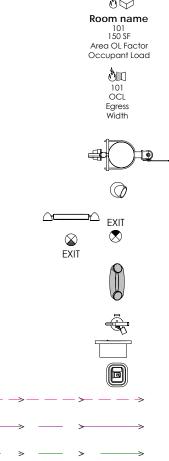
**Civil Engineering** L Squared Engineering

21123 Eva St, Ste #200 Montgomery, TX 77356 936.647.0420









	Aluminum		Tile 12"		Fire Resistant Wall Load Bearing Wall Partition	
	Steel		Vertical 12"		Non Load Bearing Wall Partitic	n
	Wood 1		Horzontial 12"	**************************************	Fiberglass Insulation Exterior Metal Building Wall wit	h EFIS/Cultured Stone
	Wood 2		Tile 8x24		Exterior Metal Building Wall wit	th Metal Wall Panels
	Wood 3		Block 8x16		Concrete Masonry Unit Wall	
	Gypsum Plaster		Block 8x8			
	Concrete 1		Brick Face			
	Concrete 2		Brick King			
	Concrete 3		Brick Soilder Course			0
	Earth		Stone			
	Earth45		Ceiling 2x2			
	Gravel 1		Ceiling 2x4			
	Gravel 2		Diamond Tread			
	Gravel-Aggerate	11 11 11 11	Glass 1			
FERERERE	Gravel-Pebble		Glass			
	Ground Cover		Glass Wire			
	Chain Link Fence		Metal Panel Wall			
	Rigid Insulation		Metal Panel Roof			
	Masonary Brick		Wood Board			
	Masonary Concrete Block		Wood Board Wide			
	Plastic		Crosshatch			
	Plywood		Crosshatch Small			
	MFD Plywood		Diagonal Crosshatch			
	Sand 1		Diagonal Crosshatch Smal	II		
	Sand 2		Diagonal Down			
	Roof Shingle 1		Diagonal Down Small			
	Roof Shingle 2		Diagonal Up			
	Texture Stipple		Diagonal Up Small			
	Texture		Horizontal Lines	С		
	Wood End Grain		Horizontal Small			
	Wood Face Grain		Ortho Crosshatch			
	Wood Finish		Solid Black			
			Vertical Small			
			Vertical			
						o
ABBREVIATIONS: ABV Above	<u>ABBREVIATIONS: (cont)</u> E East	P	<u>IATIONS: (cont)</u> Paint	$\frown$	Site Legend	
<ul> <li>Air Conditioner</li> <li>Americans Disability A</li> <li>Addition</li> <li>Adjust</li> </ul>	EA Each EF Exhaust fan EJ Expansion ja ELEV Elevation	PL	Pavement Portable Document Format Perforated Property Line	$\bigcirc$	Site Legend 3/16" = 1'-0"	
A.F.F. Above Finished Floor A.F.G. Above Finished Grade A.G. Align ALT Alternate	ELEC Electric, elec		Plate Plastic Plywood Porcelain			
NPPD         Approved           NSPH         Asphalt           NSTM         American Society for <sup>2</sup>	EX Existing EXT Exterior Testing and	PP PPL PROP	Power Pole People Proposed			
Aaterials SME American Society of A ngineers	FE Fire extingui: FAB Fabricate	PSF PSI her PVC PWR	Pounds per square foot Pounds per square inch Polyvinyl chloride Power			
D Board .L. Building Line LDG Building	FIN Finish FLR Floor FRM Framing FV Field Verify	QA QC QTY	Quality Assurance Quality Control Quantity			
RG Bearing	GA Gauge GALV Galvanized GC General Co	NFPA RAD ntractor RD	National Fire Protection Association Radius Roof drain			
Catch Basin CRCI Contractor Furnish/ Cr CFOI Contractor Furnish/ O CFM Cubic Feet per Minute	GFI Ground Fau ontractor Install GPS Global Posit wner Install GYP Gypsum		Rough Opening Right of way Refrigerator Reference			
CL Center Line CLG Ceiling CO Clean Out	HB Hose bib HDW Hardware HGT Height	REINF REQ REV	Reinforced Required Revision		ర్దీ 💬 Room name	Life Safety Roor -Room Number -Net Sg Ft
COL Column CONT Continuous CONC Concrete CT Ceramic Tile	HOR Horizontal HTR Heater HVAC Heating, Ve Air Condition	ning SAN	Room South Sanitary		101 150 SF Area OL Factor Occupant Load	-Net Sq Ft -Area Occupar -Calculated Oc
DS Down spout	HW Hot water	SC SCHED	Solid core Schedule		811	Life Sefety Deer

Junction Joist

Linear feet

Linear Light Pole

Maximum Mechanical Medium Manufacturing Minimum

Manhole Metal (steel)

Not to scale

Overhead

Opening

VCI On center On center each way Outside diameter Original Equipment Manufacturer Owner Furnish/Contractor Install Owner Furnish/Owner Install Over Fuend

Nominal

North

Inside diameter

Inclusive, including Insulation Interior

Laminate Local Area Network Lavatory Liquid Crystal Display

INCL

INSUL INT

JCT

LF

LAM LAN LAV LCD LN LP

MAX MECH MED MFG MIN

MH MTL

NTS NOM

OC OCEW OD

OEM OFCI OFOI OH OPNG

Ν

ID

DBL DEMO DIA DIM DN

ELEV ELEC EQ

EQUIP

FAB FIN

FI R

FRM

GA GALV GC

GFI GPS GYP

HB HDW HGT HOR HTR HVAC HW

ID INCL INSUL INT

Down spout Double Demolition Diameter Dimension Down Door

East Each Exhaust fan Expansion joint Elevation Electric, electrical Equal Equipment Estimate Existing Exterior

Fire alarm Floor drain

Fire extinguisher Fabricate Finish Floor Framing Field Verify

Gypsum

Inside diameter Inclusive, including Insulation Interior

Gauge Galvanized General Contractor Ground Fault Interrupt

Global Positioning System

Hose bib Hardware Height Horizontal Heater Heating, Venting and Air Conditioning Hot water

South Sanitary Solid core Schedule Smoke detector Sheathing Similar Specifications Square feet Square feet Square inches Stainless Steel Standard Steel

Steel

Storm Sewer Square yard System

Unfinished

Vapor barrier Verify in field

Tongue and groove Temporary Benchmark Top of Beam Top of curb Top of Steel Typical

Unless Otherwise Noted

Voltage Vinyl composition tile

West Toilet (water closet) Window Treatment

S SAN SC SCHED SD SHTG SIM SPECS SF SQ FT SQ IN SS

STL STM SY

SYS

T&G TBM TOB TOC TOS TYP

UNF UON

VB VIF

V VCT

Life Safety Room Tag -Room Number -Net Sq Ft -Area Occupant Load Factor from Chapter 10 -Calculated Occupant Load

ð11

Egress Width

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B

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EXIT

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 $\succ$   $\rightarrow$   $\rightarrow$   $\rightarrow$   $\rightarrow$ 

3/8" = 1'-0"

<u>Life Safety Ledgend</u>

Life Safety Door Tag -Door Number -Occupancy Combined Load -Calculated Egress Width Required

Riser/Entrance for NFPA 13 Sprinkler System Emergency Exterior Egress Lighting with 90min Battery Backup

Emergency Exit-Egress Lighting with 90min Battery Backup

Emergency Egress Lighting with 90min Battery Backup

Fire Extinguisher 5Lb Buckeye 5ABC or Equal ULC 3-A:40-B:C Fire Extinguisher Cabinet Nystrom Alpine FC-7010 or Equal with 5lb ABC Buckeye Fire Extinguisher Knox Box 3275 Mount 5'-6" Aff Common Path of Egress Travel-Stage 1 Exit Access Travel-Stage 2

Exit Travel-Stage 3

#### Storm Drainage Catch Basin

Precast Concrete Manhole

ADA Site

Ramp

ADA Site

Ramp

Concrete

Site Concrete

Wheel Stop

ADA Site Signage Pole Mount

Parking

# $|\bigcirc|$ Landscaping ADA Parking Stall Pavement Symbol Concrete Flare Dumpster Enclosure Gate



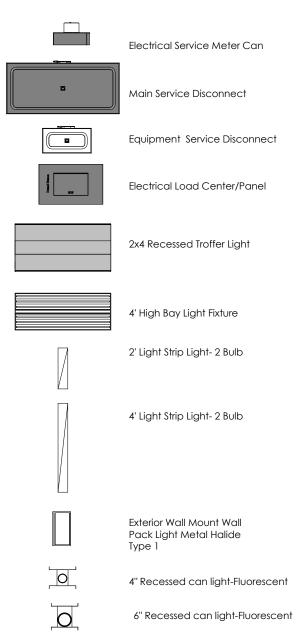
specified Outlet White-Locate as Req

Low Voltage Tele-Data Outlet White

Security Key Pad Door Access

Security Card Pad Access HID Low

16" AFF Center



Outlet and Switch Colors

Service area's and shop areas

Gray Device with SS Cover Plate

General Purpose Outlets-White device with white Cover Plate Dedicated Devices- Gray Device with white cover plate Specialized Equipment- Orange Device with White Cover Plate

Site Water Meter

Box-HDPE

Backflow

Preventer

Clean Out

Floor Drain

Drinking

Fountain

ADA Shower

Valve-Single

Floor Mounted

Floor Mounted

Bowel and Tank

Water Closet

PVC Floor Sink

Lavatory Wash

and Cover

Fountain

Flush Valve

Water Closet with

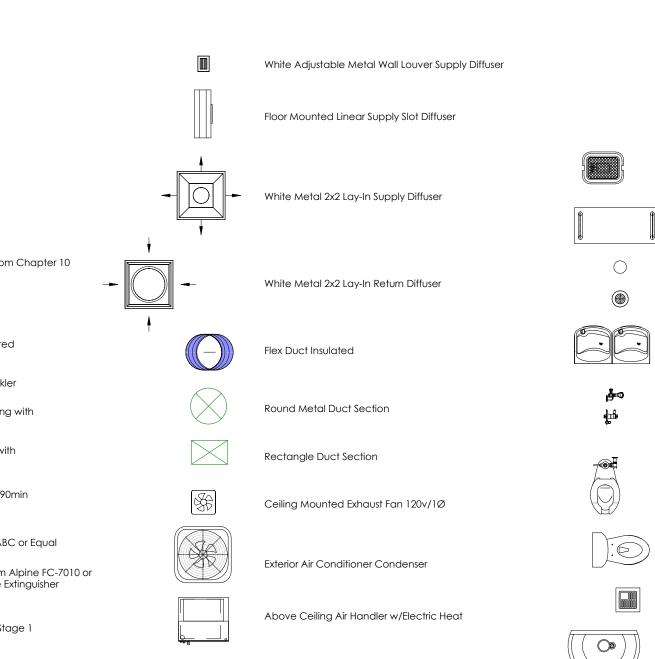
Lever

Security Cage

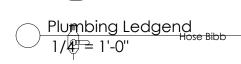
Office/Business

\$	120/277v-1-Gang Single Pole Switch White 48'' AFF Center
\$\$	120/277v-2-Gang Single Pole Switch White 48" AFF Center
ŝ	120/277v-1-Gang Single Pole 3-way Switch White 48" AFF Center
- 45	120/277v-1-Gang Dimming Switch White 48" AFF Center
5- 0-0- SV-0-3	120/277v-1-Gang Vacancy Switch White 48" AFF Center
MI-S-	120/277v-1-Gang Motion Switch/Timer White 48" AFF Center
	Ceiling Mounted Remote Vacancy Sensor
	LED Emergency Egress Light w/ 90 Minute Battery Back Up
	LED Emergency Exit & Egress Light w/ 90 Minute Battery Back Up
Ø	LED Emergency Exterior Egress Light (Remote head) w/ 90 Minute Battery Back Up

#### Electrical Legend └ 1/4" = 1'-0"



Mechanical Ledgend └ 1/4" = 1'-0"



Annotation Legend  $\sim$  No Scale

Graphic Scale: 1 inch = 20 feet

20'

A A101

40

1 A101

Site Property Symbol -Acreage of Area -Square Feet of Area Revision and Revision Number Symbol	
Centerline Mark	
Centermark	
Pipe Cont. Mark/Crossing	S
Breakline	6
True North and Plan North Symbol	E F S
Legends	
	Ľ

Ph<u>a</u>: e, TX  $\frown$ Φ 2 Spec Ridge,  $\bigcirc$ Rid  $\sim$ 27312 Oak А Х  $\cup$  $\bigcirc$ 0 W Project For: MOCI Revisions Rev: Date: Description: Sheet: D 24x36 6/4/2015 11:01:55 AM Edition: Permit Project # 3031 Scale: As indicated AU.

Services Prepared By:

SYMMETRY DEVELOPMENT, INC. 28510 Carley Cove Lane Spring, Texas 77386 832.795.1553 symmetrydevelopment.com

SYMMETRY DEVELOPMENT

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Way 7385

∰1i Life Safety Tag Symbol Lighting Fixture Tag Symbol **Q**1i 品li Communication Fixture Tag Symbol ₩ ÷ š š Finish Tag Symbol 😪 1i Mechanical Fixture Tag Symbol [ ]] 1i Window Tag Symbol Wall Tag Symbol Door Tag Symbol *⊈*1† Electrical Fixture Tag Symbol 1i 🗇 Ceiling Tag Symbol 1'-0" A.F.F. -Ceiling Height Above Finished Floor  $\Diamond$ 22gg gg22 Room Name Tag Symbol -Room Number 101 150 SF -Room Net Square Footage (0) Grid Line Tag Callout

Section Tag Symbol

Graphical Scale

Interior and Exterior Elevation Tag Symbol

Parking Tag Symbol Plumbing Fixture Tag Symbol Equipment Fixture Tag Symbol

55)

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222

10

SIM

80'

A101

22 A101

22Ref

1 / A101

(1) View Name 1/8" = 1'-0"

Name Elevation

Elevation

FF Height

N 90 00' 00'' E

Distance

R=Radius CL=Distance CB=N/S Bearing E/W Dir=L/R

<u>Name</u>

Acres

Sq Ft

œ

L=Arc Lenght

Name

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Reference Symbol

Reference View Title, Number, and Scale Symbol

Elevation Height Symbol

Vertical Reference Symbol

Site Property Boundary Symbol

-Distance (Decimal Feet)

(Feet-Inches)

Elevation Height

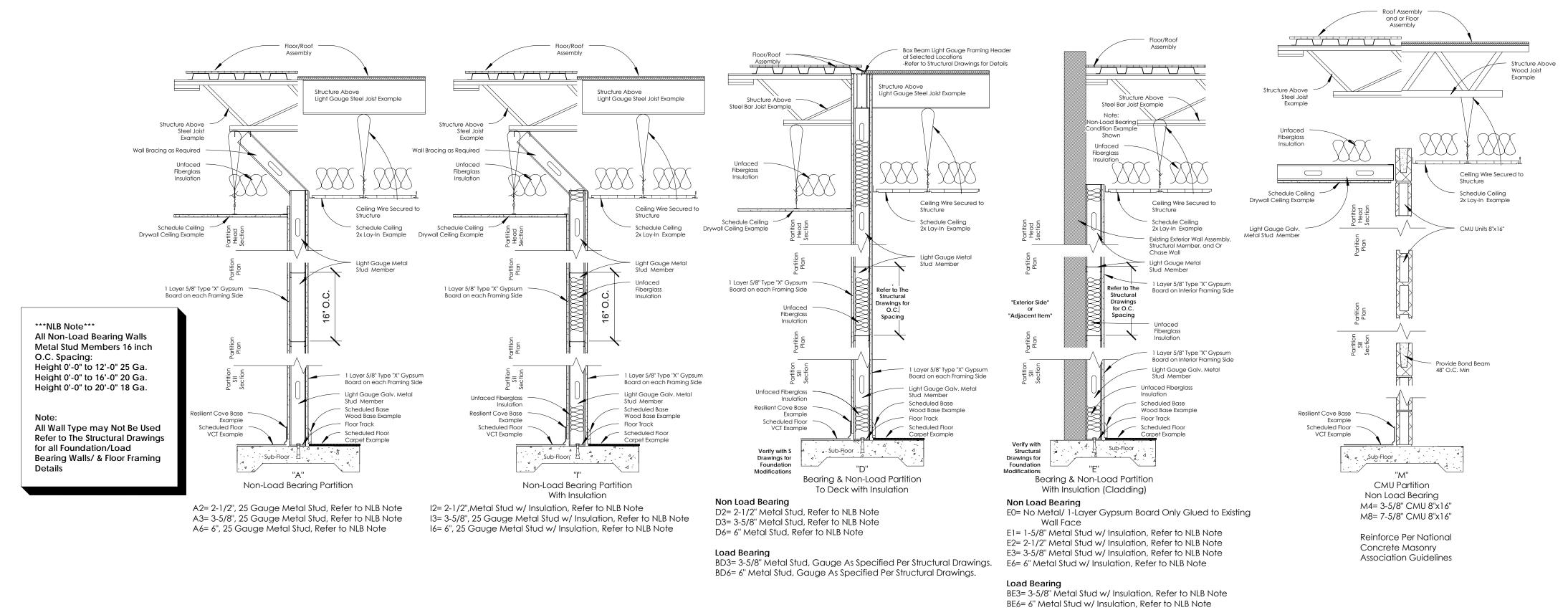
Property Line

Callout-Radius

View Number/Page Number

Reference View Title, Number, and Scale Symbol

-Direction/Call (Degrees, minutes, and Seconds)



 $1 \quad \frac{\text{Partition Wall Details}}{3/4'' = 1'-0''}$ 

## Partition Details

MOC (Oak Ridge) Phase 2 of 2 27312 Spectrum Way Oak Ridge, TX 77385
Project For: MOCI Revisions
Rev:   Date:   Description:
Sheet: D 24x36 6/4/2015 11:01:56 AM
Edition: Permit Project # 3031
Scale: 3/4'' = 1'-0''
A0.50



Services Prepared By:

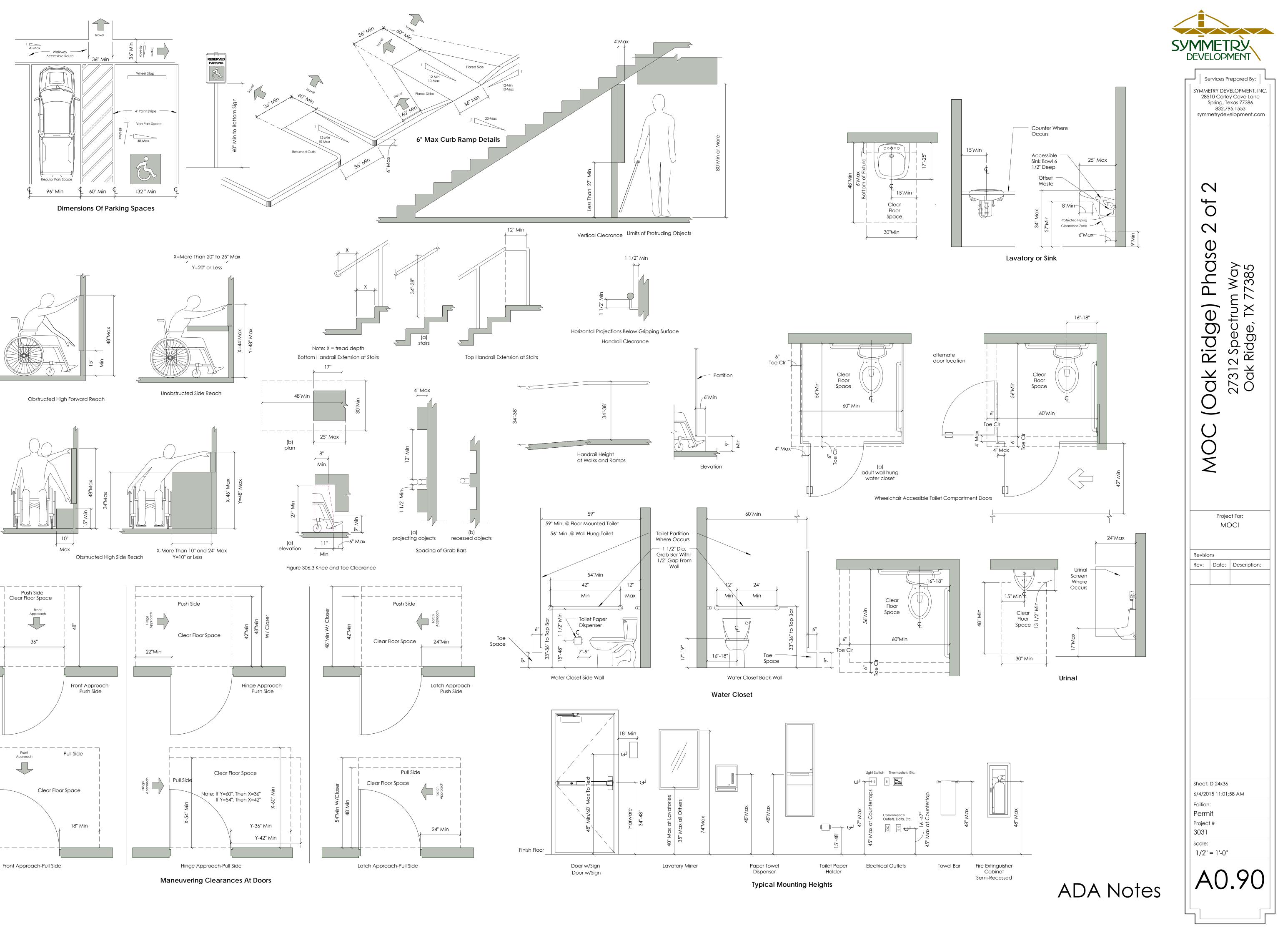
SYMMETRY DEVELOPMENT, INC.

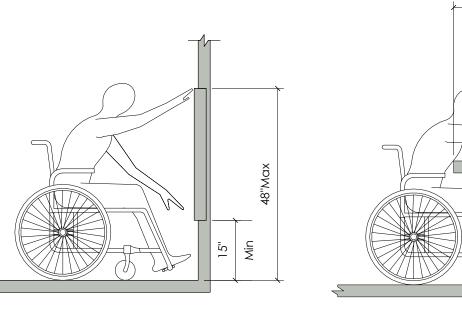
28510 Carley Cove Lane

Spring, Texas 77386

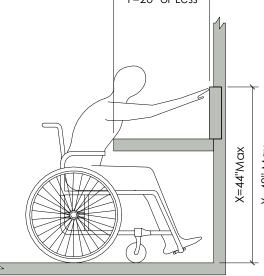
832.795.1553

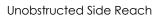
symmetrydevelopment.com

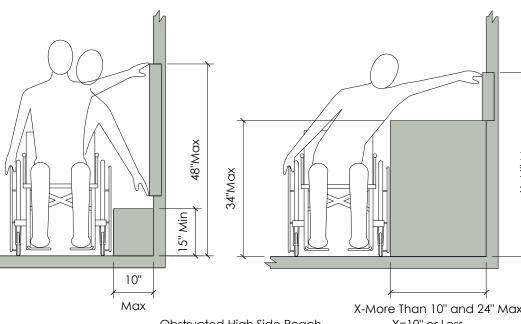


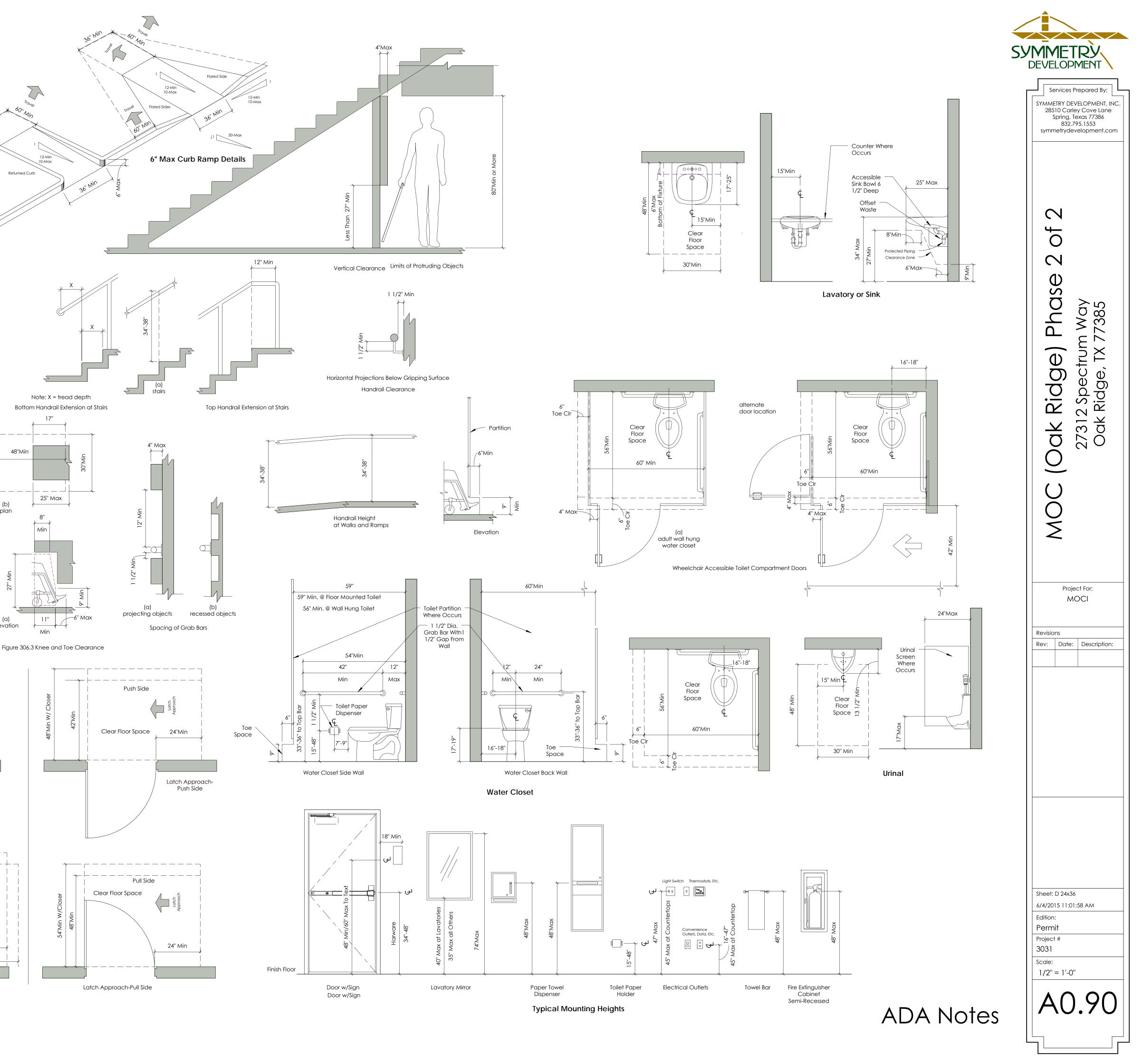


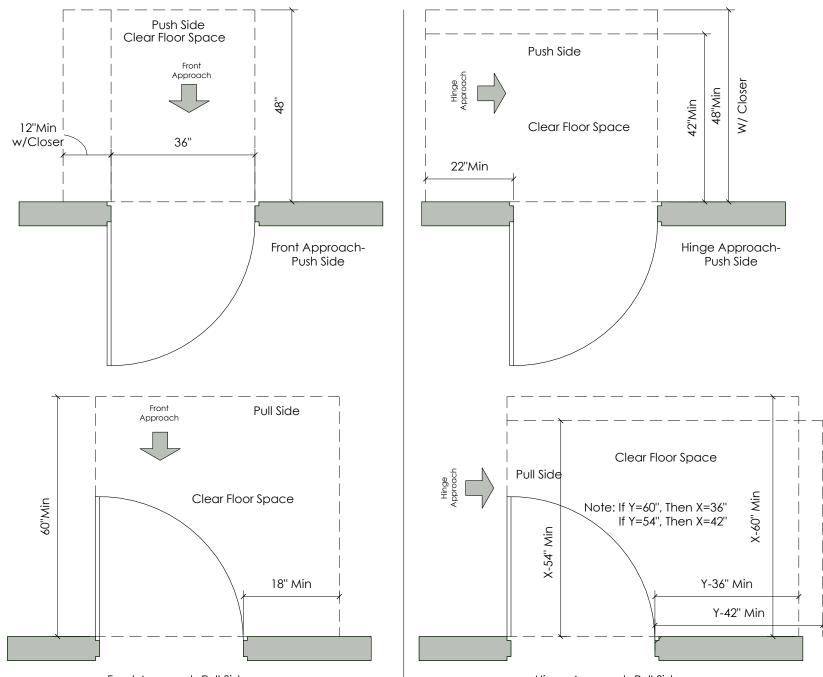


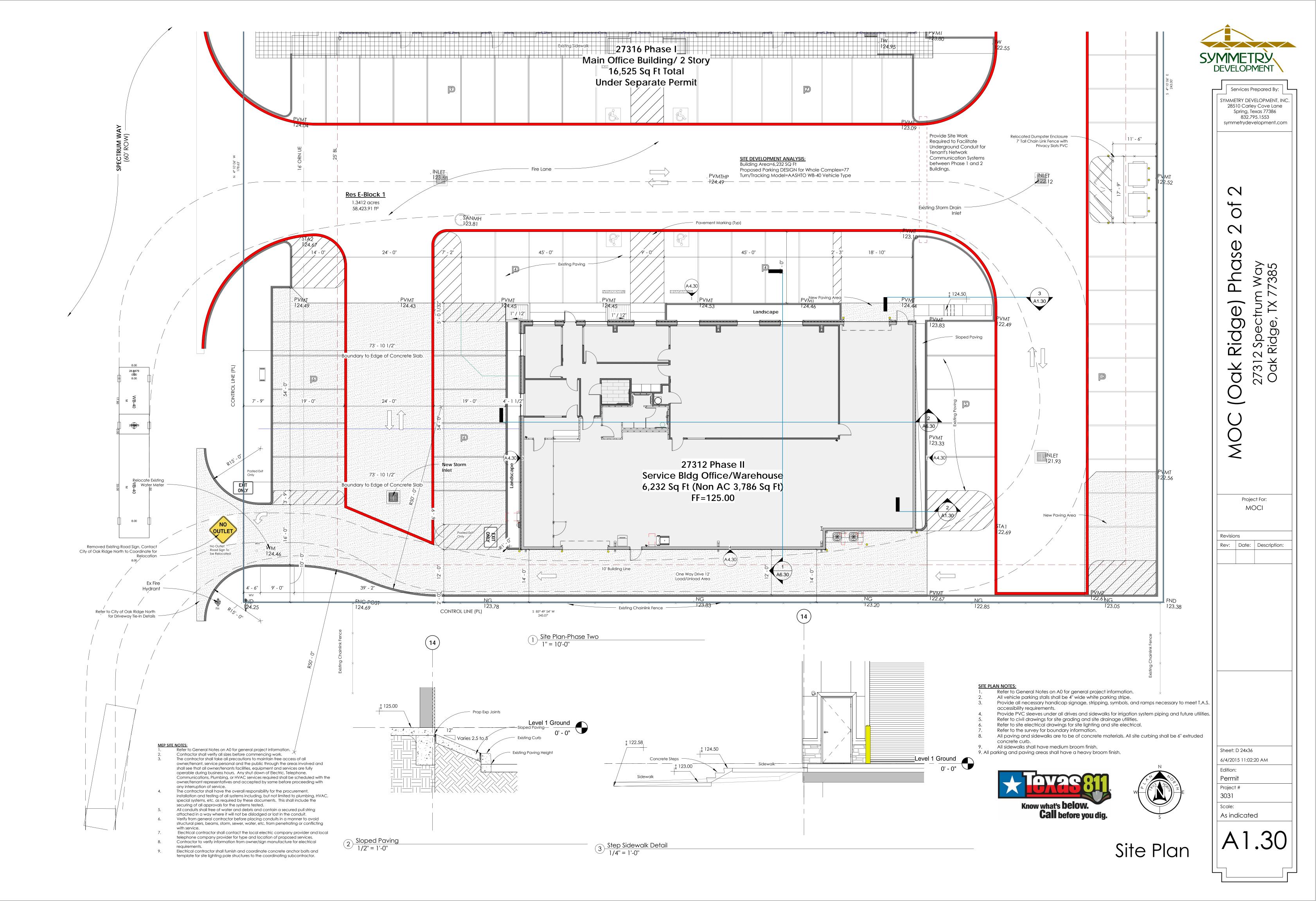


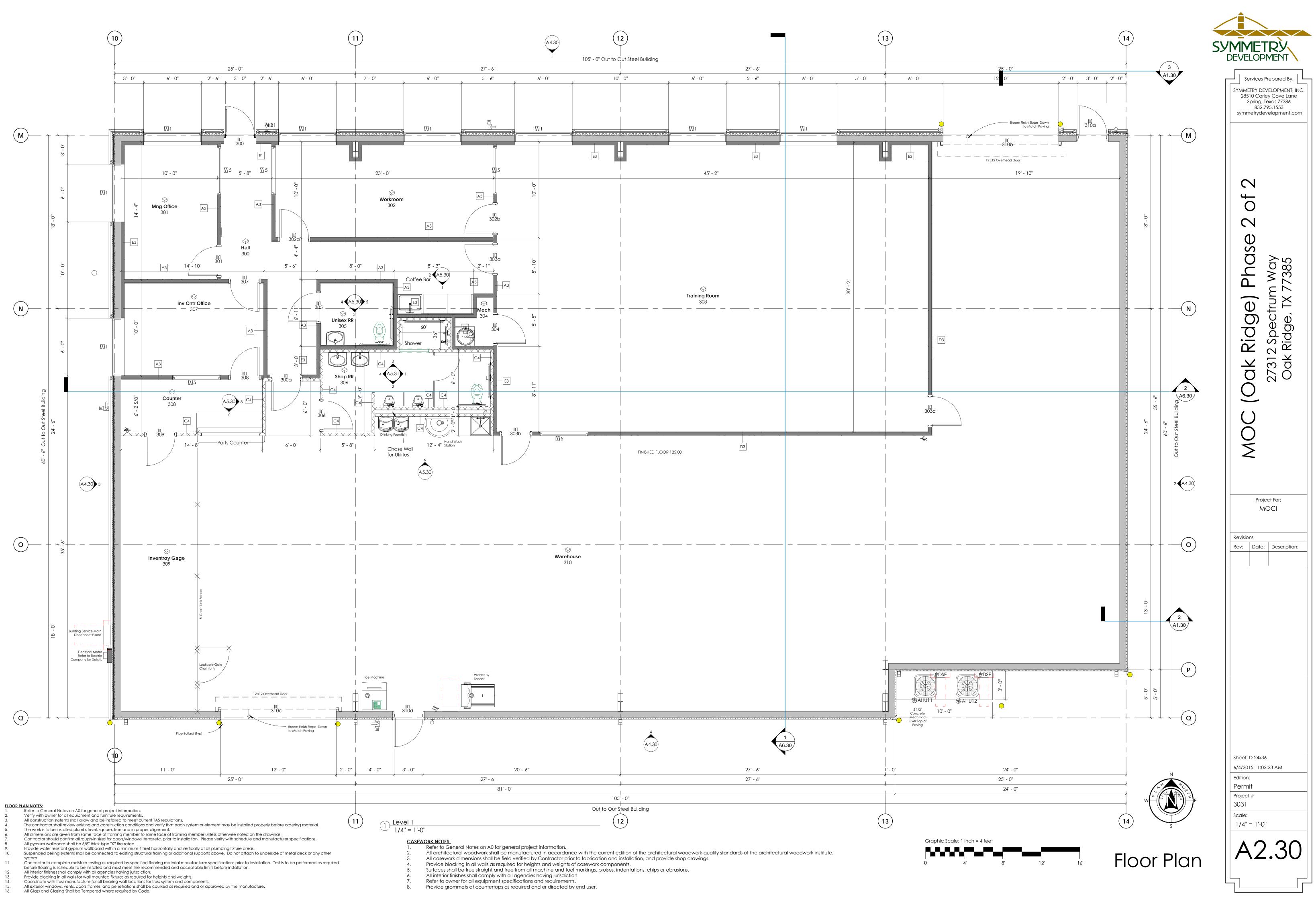


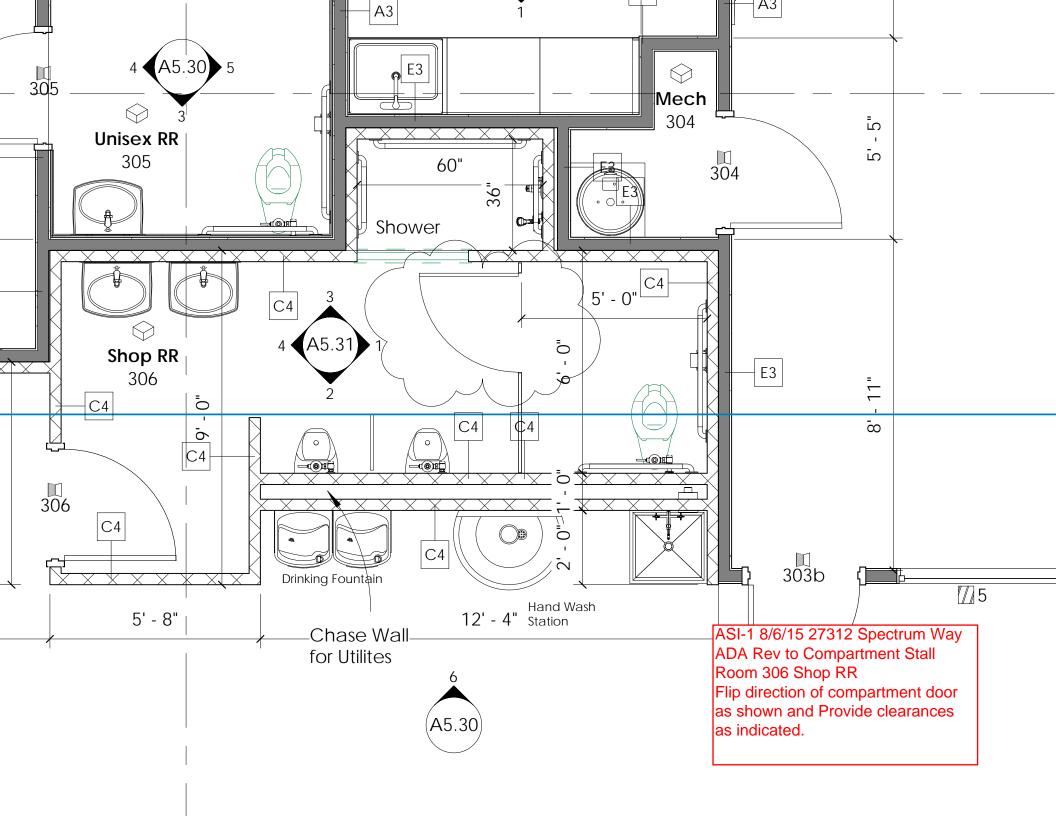


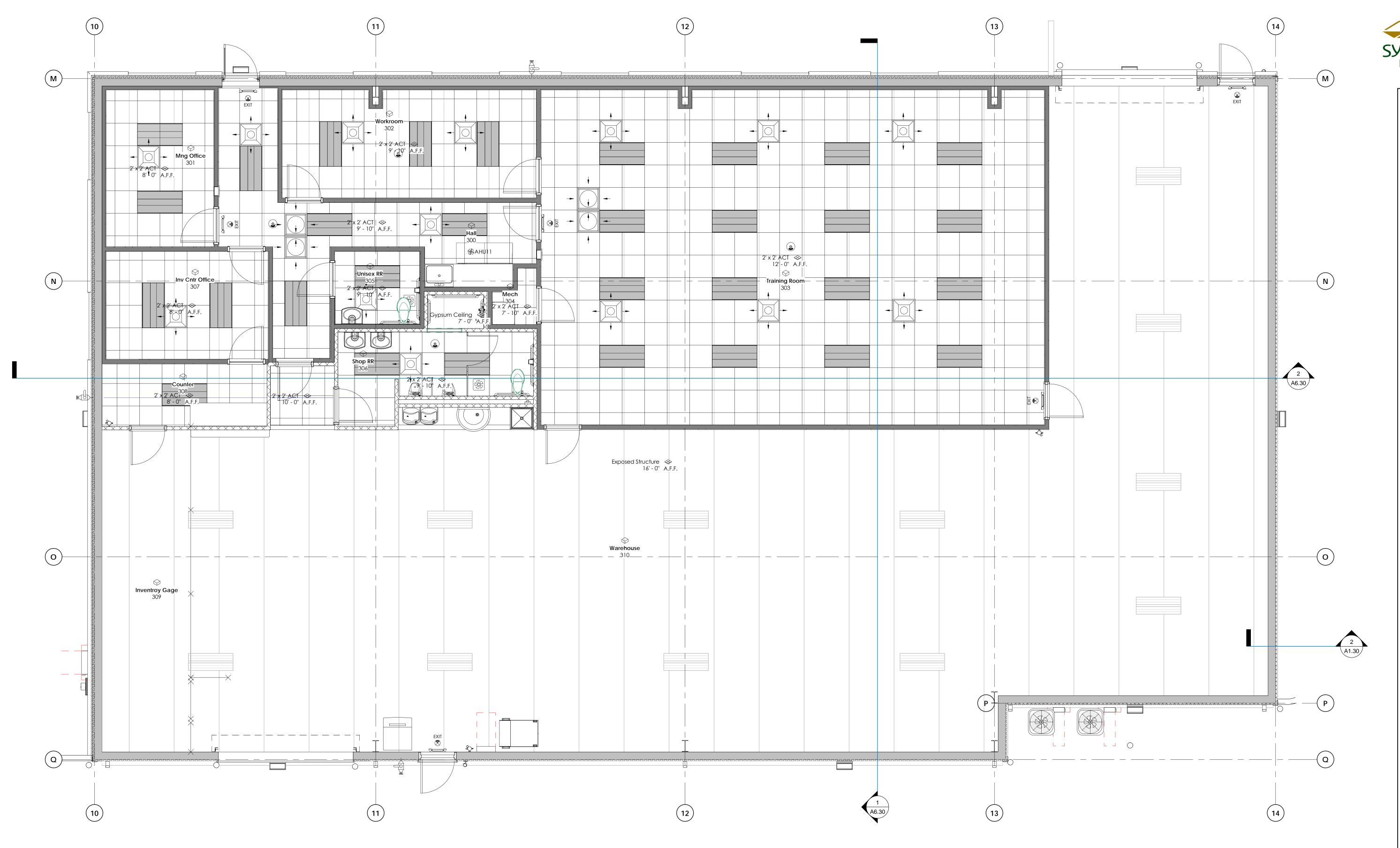


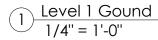












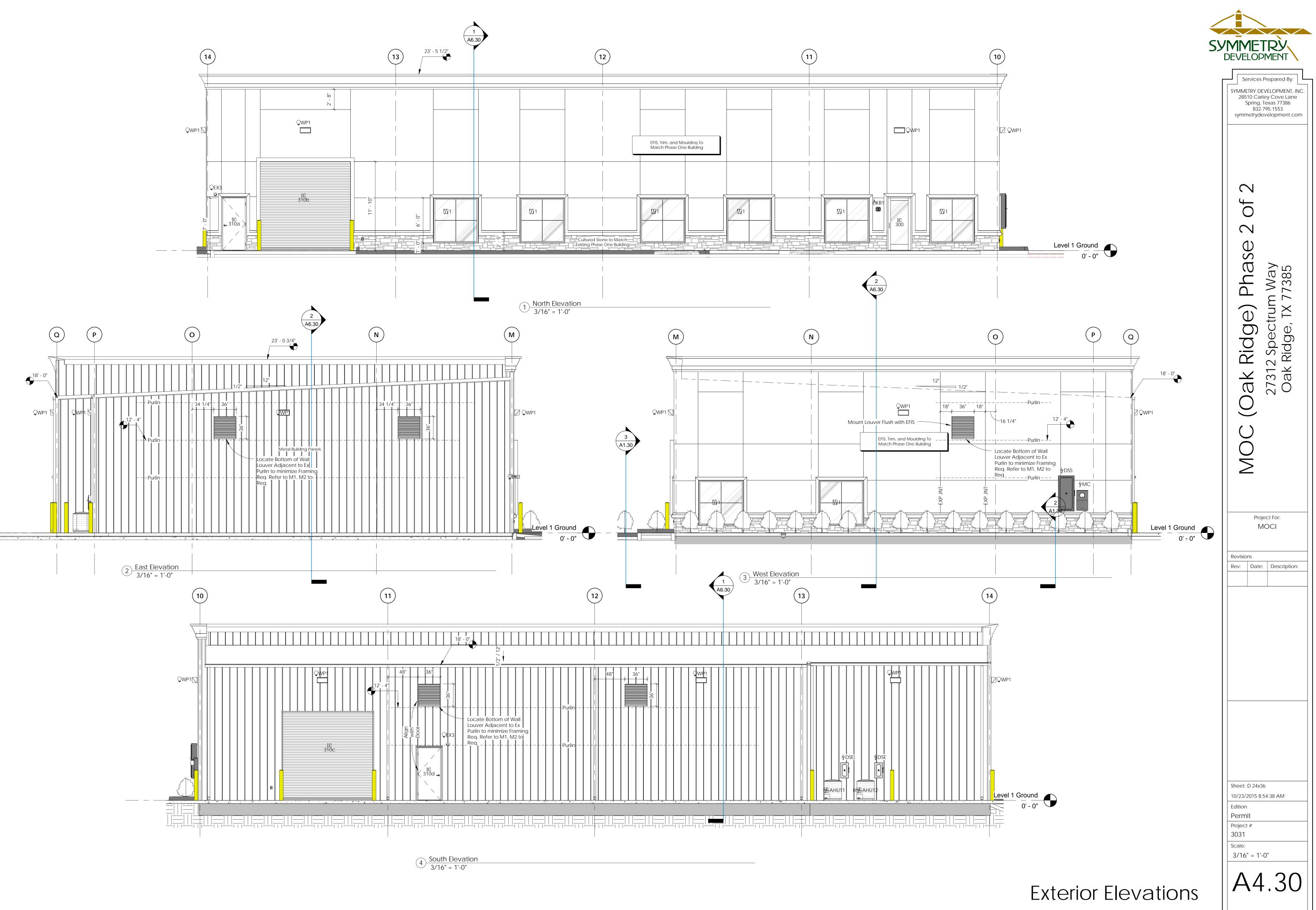
CEILING NOTES:

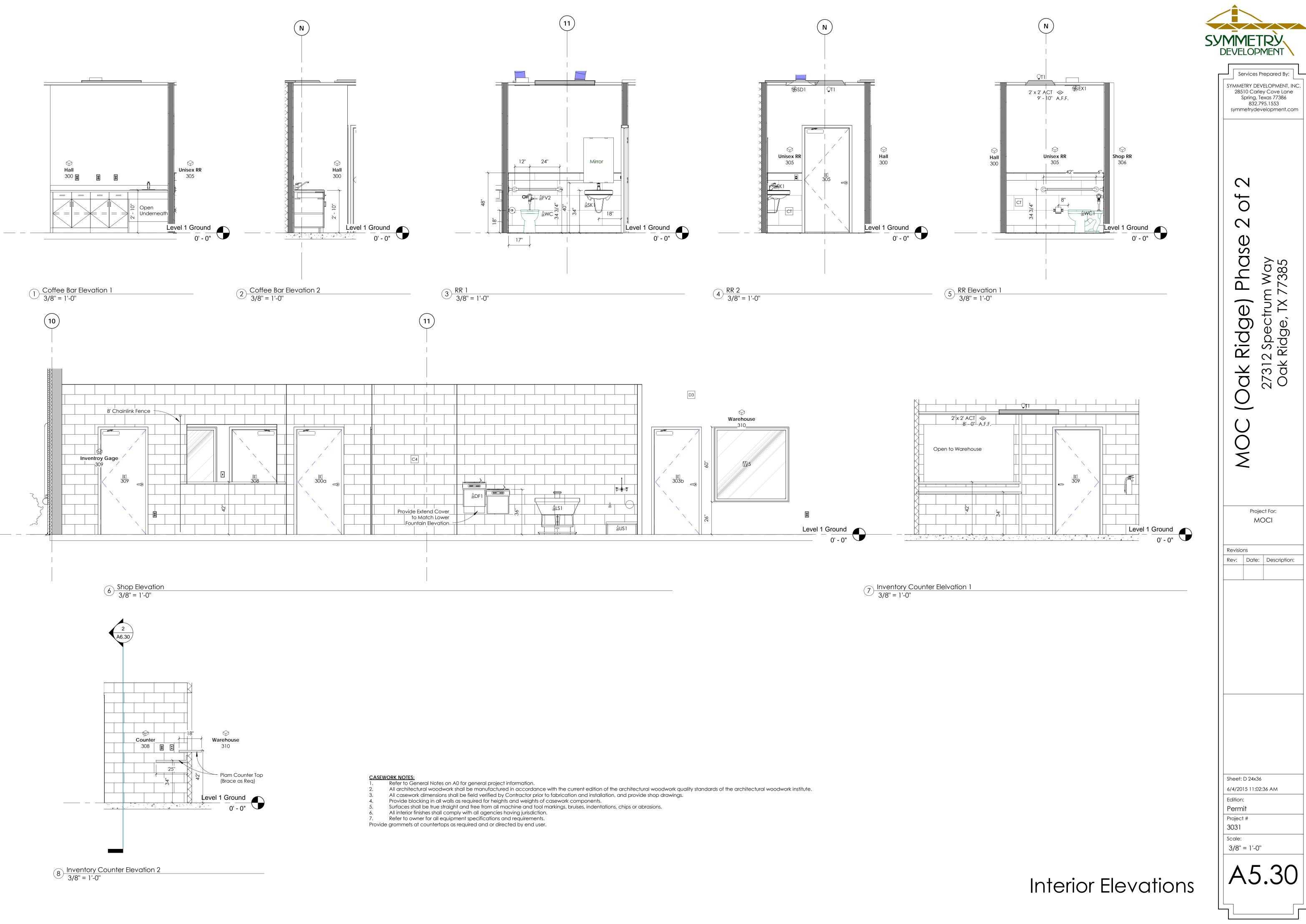
- Refer to General Notes on A0 for general project information.
- 12 gauge (minimum) hanger wires may be used for up to and Including 4 feet x 4 Feet grid spacing and shall be attached to main runners.
- Provide 12 gauge hanger wires at the ends of all main and cross Runners within 8 inches of the support or within one-fourth (1/4) of the length of the end tee, whichever is least, for the Perimeter of the ceiling area. End connections for runners which are designed and detailed the resist the applied vertical and horizontal forces may be used on lieu of the 12 gauge hanger wires. Provide trapeze and other supplementary support members at Obstructions to typical hanger spacing. Provide additional Hangers, struts, and braces as required at all ceiling breaks, Soffits, and discontinuous areas. Fasten hanger wires with no less than three (3) tight turns. Fasten bracing wires with four (4) tight turns. Make all tight turns within a distance of 1 ½ inches. Hanger and bracing wire anchors to the structure, install in such a manner that the
- direction of the wire aligns as closely as possible with the direction of the forces acting on the wire. Separate all ceiling hanging and bracing wires at least 6 inches such as single electrical conduit not exceeding <sup>3</sup>/<sub>4</sub> inch nominal diameter, may be attached to hanger wires using connectors acceptable to the architect.
- Attach all light fixtures and ceiling mounted air terminals and Force equal to the weight of the fixtures. Screws or approved Fasteners are required. Support flush light fixtures, recessed light fixtures, air terminals and services, weighing less than 56 pounds directly on runners of a heavy duty grid system. Provide a minimum of two 12 gage slack safety wires attached to fixture at diagonal corners and anchored to structure above. All 2 feet x 4 feet light fixtures shall have slack safety wires at each corner.
- All flush light fixtures, recessed light fixtures and air terminals and services weighing 56 pounds or more shall be independently supported by not less than four (4) taut 12 gage wires each attached to the fixture and to the structure. The Four (4) taut 12 gage wires including their attachment to the structure above must be capable of supporting four (4) times the weight of the unit. Support surface mounted light fixtures by at least two positive devices which surround the ceiling runner and which are each supported from the structure above by a 12gage wire. Spring clips or clamps that connect only to the runner are 10.
- not 8 feet or longer. Support pendant mounted light fixtures directly from the structure above with hanger wires or cables passing through each pendant hanger and capable of supporting four (4) times the weight of the fixture. A bracing assembly is required 11. where the pendant hanger penetrates the ceiling. Special details are required to attach the pendant hanger to the bracing assembly to transmit horizontal forces.
- 12. Where conflict in ceiling devices occurs, coordinate with contracting officer's representative. Use Caddy clip AF or VF series as required at barjoist/ metal building purlins.

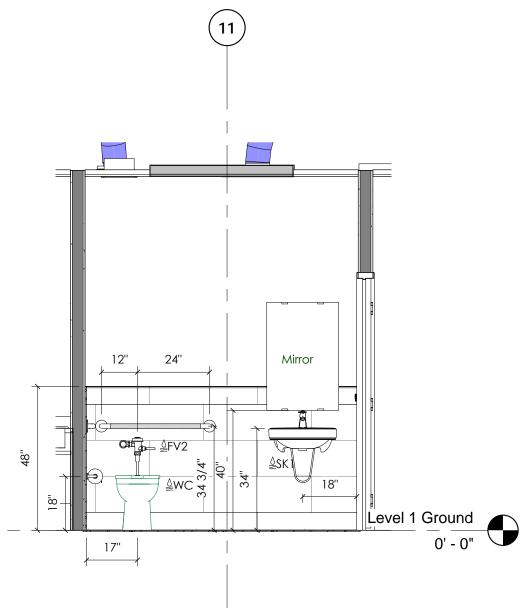
## Reflective Ceiling Plan Level 1 Ground

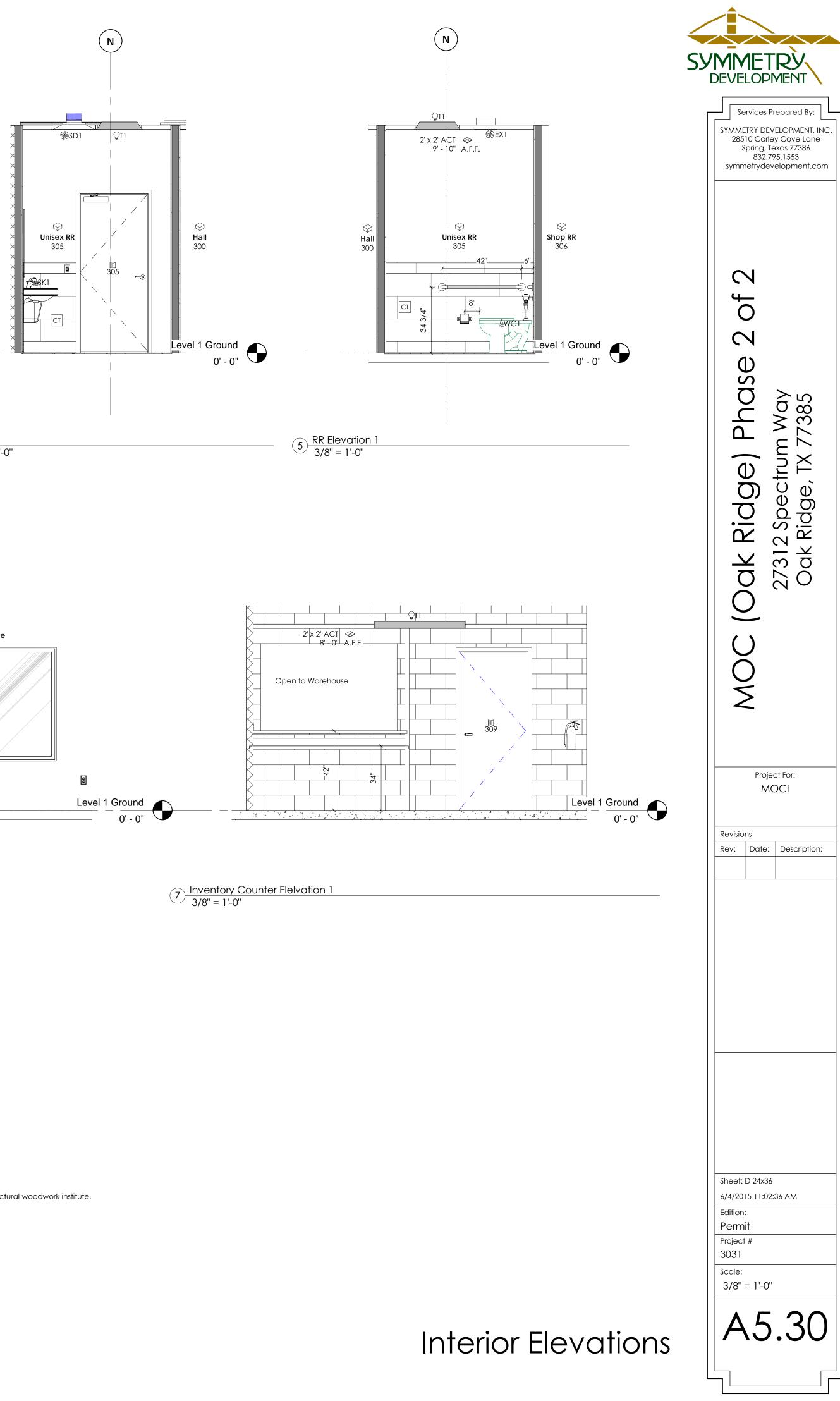


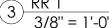
MMETRY DEVELOPMENT
Services Prepared By: SYMMETRY DEVELOPMENT, INC. 28510 Carley Cove Lane
Spring, Texas 77386 832.795.1553 symmetrydevelopment.com
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MOC (Oak Ridge) Phase 27312 Spectrum Way Oak Ridge, TX 77385
Z
Project For: MOCI
Revisions
Rev: Date: Description:
Sheet: D 24x36 6/4/2015 11:02:28 AM Edition:
Permit Project # 3031
Scale: $1/4'' = 1'-0''$
A3.30

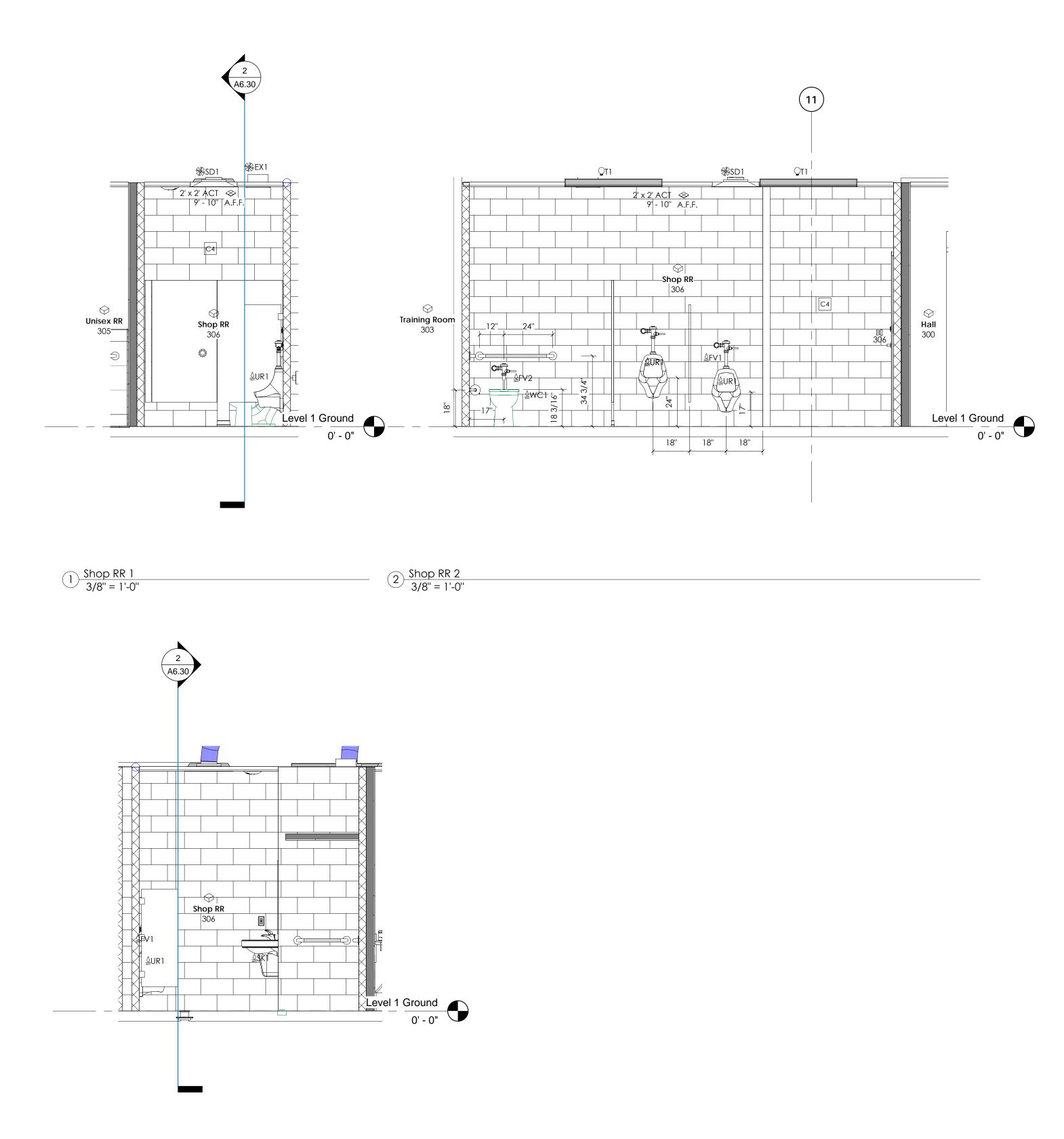




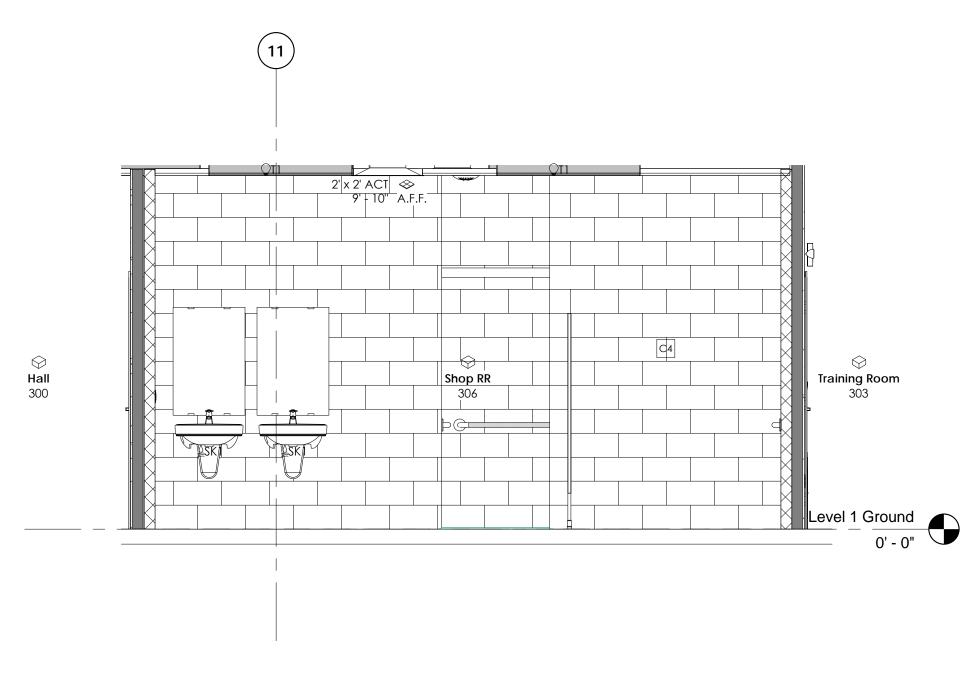








4 Shop RR 4 3/8" = 1'-0"



3 Shop RR 3 3/8" = 1'-0"

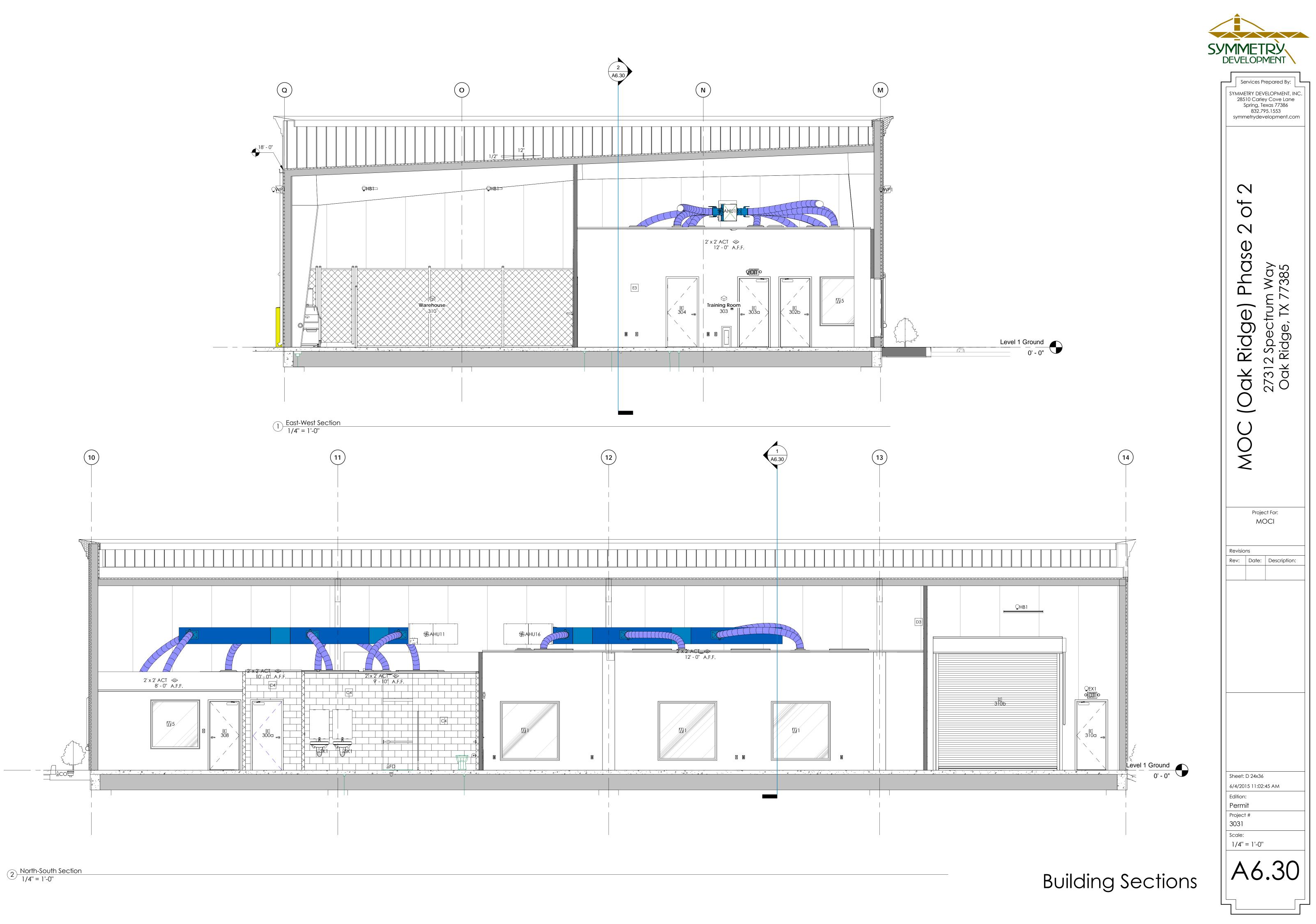
- Provide blocking in all walls as required for heights and weights of casework components. Surfaces shall be true straight and free from all machine and tool markings, bruises, indentations, chips or abrasions. All interior finishes shall comply with all agencies having jurisdiction. Refer to owner for all equipment specifications and requirements.
- Provide grommets at countertops as required and or directed by end user.

## Interior Elevations

SYMMETRY D 28510 Ca Spring, 832	EVELOPMENT, INC. rley Cove Lane . Texas 77386 .795.1553 evelopment.com
MOC (Oak Ridge) Phase 2 of 2	27312 Spectrum Way Oak Ridge, TX 77385
	nject For: ΛΟCΙ
Revisions Rev: Date	e: Description:
Sheet: D 24x 6/4/2015 11:0	
Edition: Permit Project # 3031 Scale: 3/8'' = 1'-0 AS	5.31

SYMMETRY DEVELOPMENT

<sup>CASEWORK NOTES:
1. Refer to General Notes on A0 for general project information.
2. All architectural woodwork shall be manufactured in accordance with the current edition of the architectural woodwork quality standards of the architectural woodwork institute.</sup> All casework dimensions shall be field verified by Contractor prior to fabrication and installation, and provide shop drawings.



			Schedule				
Image	Type Mark	Category	Туре	Description	Manufacturer	Model	Type Comments
- 🖸 -	RAI	Air Terminals	2x2-Return				
-	SD1	Air Terminals	2x2-Supply				
	DSE	Electrical Equipment	Not Configured	Heavy Duty Safety Switch	Square D by Schneider Electric		Safety Switch
	DSS	Electrical Equipment	E-DIS-400A	Heavy Duty Safety Switch	Square D by Schneider Electric		Safety Switches
	LP1	Electrical Equipment	Power and Lighting Load Center	Distribution Panelboard	Square D by Schneider Electric		
	мс	Electrical Equipment	Electric Meter				
	EO-D	Electrical Fixtures	Duplex	NEMA 5-15R Duplex Outlet 120v	Leviton	TBR15-W	
	EO-DDed	Electrical Fixtures	Duplex Outlet-Dedicated				
	EO-DLH		Duplex Outlet- With Label and Height				
	EO-GFIWP	Electrical Fixtures	GFCI-WP				
_(	ES-V	Electrical Fixtures	Single Switch-Vacancy				
-()-V\$3	ES-V3	Electrical Fixtures	Single Switch 3 Way				
	FE-5ABC	Fire Alarm Devices	Fire Extinguisher 51b	5lb ABC Fire	Buckeye	5ABC	
	FEC	Fire Alarm Devices	Recessed 1/2	Extinguisher	Nystrom	Fire Cabinets_Alpine	
	КВ1	Fire Alarm Devices	3275	Emergency Key	Knox Box	Series 3275	Dark Bronze
e							
	VS-CM1	Lighting Devices	OS Sensor	Exectrical Fixture as specified in 26 05 00	Hubbell Wiring Devices - Kellems	As specified in 26 05 00	
EXIT	EX1	Lighting Fixtures	Exit/Egress Light	Exit/Egress LED Sign with 90 min Backup	Lithonia	LHQM-LED-R	
	EX2	Lighting Fixtures	ELM2LED	Emergency Egress Light	Lithonia	ELM2LEDHO	
$\bigcirc$	EX3	Lighting Fixtures	Single Remote Head	Exterior Egree Remote Head w/ 90 min Battery Backup	Lithonia	ELA-Q-L0304/L0309	
	НВ1	Lighting Fixtures	Refer To Type Catalog	Highbay Lights- 6T5	Lithonia	IBZ-654L-ACRP	
	JI		Downlight_Recessed_Cooper_Hal o_LED_6 Inch_H750TD010	6" LED Rec Can Light	Cooper Industries, Inc.	H750ICAT-ML706835-49 4SC06	
JL	TI	Lighting Fixtures	2x4 Toffer 3-32wT8	Recessed 2x4 Troffer 3-T828w	Lithonia	2GR8IC-328T8	
	WP1	Lighting Fixtures	Refer To Type Catalog		Lithonia		
0	СО	Plumbing Fixtures	Round 6" Floor Cleanout	Adjustable Cleanout	Oatey	Round 6Inch Brass Cleanout	
CO	DF1	Plumbing Fixtures	Elkay ADA Bilevel LZO STL8*C	ez ada	Elkay	LZOSTL8*C	
f-	F1	Plumbing Fixtures	Delta 8210	Single-Handle Kitchen Faucet	Moen	8701	
0	FD	Plumbing Fixtures	Round 5" Strainer - 2" Drain				
	FS1	Plumbing Fixtures	4" Floor Sink 3/4	Floor Sink			
	FV1	Plumbing Fixtures	Royal 111-1.28	Exposed Water Closet Flushometer, for floor mounted or wall hung		Royal 111-1.28	
	FV2	Plumbing Fixtures	Royal 186-0.5	top spud bowls. Exposed urinal flushometer	SLOAN	Royal 186-0.5	
	НВ1	Plumbing Fixtures	HoseBibb				
U	LD1	Plumbing Fixtures	36 inch Drain Zurn ZS880		Zurn Industries, LLC	ZS880	Single Bottom Outle
	LS1	Plumbing Fixtures	Bradley WF2803-Type A Drain	36" Semi-Circular Washfountain with 9" Deep Bowl	Bradley Corp	WF2803	
	SH1	Plumbing Fixtures	DELTA T17TH155	Deep Bowl Trim Kit for Shower Valve Only, w/ Handshower and 24"	Delta	T17TH155	
	SK1	Plumbing Fixtures	Kohler Pinoir	Grab Bar Pinoir Wall-mount bathroom sink with 8in widespread faucet	Kohler	2035-8-0	
•	SK3	Plumbing Fixtures	30" x 21" ADA	holes	SMARTBIM		
	UR1	Plumbing Fixtures	Urnial	0.5 GPF High Efficiency Urinal	American Standard	6550.005	
	US1		Molded Stone Service Basin with Faucet				
	WC1	Plumbing Fixtures	AS FIr Mnt WC		American Standard		
- S	WC2	Plumbing Fixtures	ADA Toilet				
1.60		1		i -	1	1	
$): \bigcirc )$	WH	Plumbing Fixtures	30 Gallon - 240V - 4500W Electric	Light Duty Upright Energy Saver Electric	Bradford White Corporation	LD-30R3-3	

Mark	Door Description	Width	Height	Thickness	Fire Rating	Hardware Set	Finish	Description
MUIK	Door Description	Widin	Heighi	THICKNESS	File Kuling	Halawale sei	FILIST	Description
300	Storefront Door	3' - 0''	7' - 0''	0' - 1 3/4''	-	1	Bronze	
300a	Hollow Metal Door Frame	3' - 0''	7' - 0''	0' - 1 3/4"	-	4	Paint	
301	Int Door and Frame	3' - 0''	7' - 0''	0' - 1 3/4''	-	6	Bronze-PLam	
302a	Int Door and Frame	3' - 0''	7' - 0''	0' - 1 3/4''	-	8	Bronze-PLam	
302b	Int Door and Frame	3' - 0''	7' - 0''	0' - 1 3/4"	-	8	Bronze-PLam	
303a	Int Door and Frame	3' - 0''	7' - 0''	0' - 1 3/4"	-	8	Bronze-PLam	
303b	Hollow Metal Door Frame	3' - 0''	7' - 0''	0' - 1 3/4"	-	6	Paint	
303c	Hollow Metal Door Frame	3' - 0''	7' - 0''	0' - 1 3/4"	-	6	Paint	
304	Int Door and Frame	3' - 0''	7' - 0''	0' - 1 3/4"	-	6	Bronze-PLam	
305	Int Door and Frame	3' - 0''	7' - 0''	0' - 1 3/4"	-	7	Bronze-PLam	
306	Hollow Metal Door Frame	3' - 0''	7' - 0''	0' - 1 3/4"	-	4	Paint	
307	Int Door and Frame	3' - 0''	7' - 0''	0' - 1 3/4"	-	6	Bronze-PLam	
308	Int Door and Frame	3' - 0''	7' - 0''	0' - 1 3/4"	-	5	Bronze-PLam	
309	Hollow Metal Door Frame	3' - 0''	7' - 0''	0' - 1 3/4"	-	5	Paint	
310a	Mtl Bldg Hollow Metal Door and Frame	3' - 0''	7' - 0''	0' - 1 3/4"	-	3	Paint	
310b	Overhead Door-Roll Up	12' - 0''	12' - 0''		-	NA	Paint	
310c	Overhead Door-Roll Up	12' - 0''	12' - 0''		-	NA	Paint	
310d	Mtl Bldg Hollow Metal Door and Frame	3' - 0''	7' - 0''	0' - 1 3/4"	-	3	Paint	

Room Number	Room Type	Floor Finish	Base Finish	Wall Finish	Ceiling Finish	Comments
300	Hall	VT1-VCT Tile	B1-Rubber Cove Base 4" w/ Toe	P1-2 Coat (Primer, Top Coat Egg Shell)	ACT1-2x2 Gride with USG Radar Tile	
301	Mng Office	CT-Carpet Tile	B1-Rubber Cove Base 4" w/ Toe	P1-2 Coat (Primer, Top Coat Egg Shell)	ACT1-2x2 Gride with USG Radar Tile	
302	Workroom	VT1-VCT Tile	B1-Rubber Cove Base 4" w/ Toe	P1-2 Coat (Primer, Top Coat Egg Shell)	ACT1-2x2 Gride with USG Radar Tile	
303	Training Room	CT1-Carpet Tile	B1-Rubber Cove Base 4" w/ Toe	P1-2 Coat (Primer, Top Coat Egg Shell)	ACT1-2x2 Gride with USG Radar Tile	
304	Mech	VT1-VCT Tile	B1-Rubber Cove Base 4" w/ Toe	P1-2 Coat (Primer, Top Coat Egg Shell)	ACT1-2x2 Gride with USG Radar Tile	
305	Unisex RR	C1-Ceramic Tile	CB1-Cermaic Cove Base 6" w/ Toe	P1-2 Coat (Primer, Top Coat Egg Shell)	ACT1-2x2 Gride with USG Radar Tile	
306	Shop RR	Sealed Concrete		P2- 3 Coat (Block Filler, Primer, Top Coat)	ACT2-2x2 Grid with Vinyl Face Tile	
307	Inv Cntr Office	Sealed Concrete	B1-Rubber Cove Base 4" w/ Toe	P1-2 Coat (Primer, Top Coat Egg Shell)	ACT1-2x2 Gride with USG Radar Tile	
308	Counter	Sealed Concrete	B1-Rubber Cove Base 4" w/ Toe	P2- 3 Coat (Block Filler, Primer, Top Coat)	ACT2-2x2 Grid with Vinyl Face Tile	Base at Drywall Only
309	Inventroy Gage	Sealed Concrete		P2- 3 Coat (Block Filler, Primer, Top Coat)	Open to Structure	
310	Warehouse	Sealed Concrete	B1-Rubber Cove Base 4" w/ Toe	P1/P2	Open to Structure	Base at Drywall Only

Level 1 Ground: 11 Grand total

Finish Specification (Verify with Owner before purchasing selections)

Millwork:

PL1 TBD-Standard PL2 TBD-Breakroom Countertop

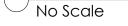
SS1 Solid Surface-TBD

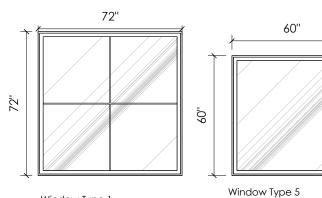
Acoustical Suspened Ceiling

ACT1 USG 2x2 Tile Radar ClimaPlus 2210 with Donn DX Grid with unfaced R-19 Insulation Above ACT2 USG 2x2 Tile Clima Plus Vinyl Face 3260 with Donn DX Grid

- Paint (As Key Noted)
- P1 TBD P2 TBD
- Flooring (As Key Noted)
- C1 Ceramic Tile-TBD CT1 Carpet Tile-TBD
- VT1 12"x12" VCT Tile TBD B1 4" Rubber Base with toe-TBD
- CB1 Ceramic Tile Base-TBD

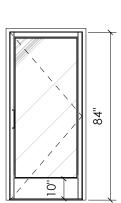
Finish Schedule





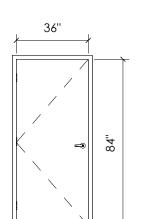
Window Type 1 6'-0" x 6'-0" Vinyl Frame Insulated Low-E Fixed Window To match similar to Existing 1e Type

Flash and Weatherproof Windows in Per the Existing Metal Building Component Manufactures Recommendations.



Window Notes:

Door Type "C" 3070 Aluminum Storefront Door Narrow Stile, Standard Hardware w/ Lock Indicator Refer To:



5'-0" x 5'-0" Alumn Frame to Match

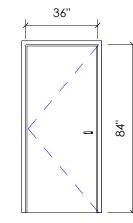
Provide 1/4" Glass, Tempered Where

Interior Door Frame Style

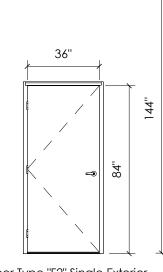
Required

Door Type "D" Single 3080 Plastic Laminate Face Solid Wood 1-3/4" Door-Aluminum Frame and Trim, Provide Closer Bracing at Frame, Verify Frame Thickness based

on Wall Type.



Door Type "F1" Single Interior 3070 Hollow Metal 1-3/4" 20 Ga. Door and 16 Ga. Frame,Provide Closer Bracing at Frame and Door, Verify Frame Thickness based on Wall Type.

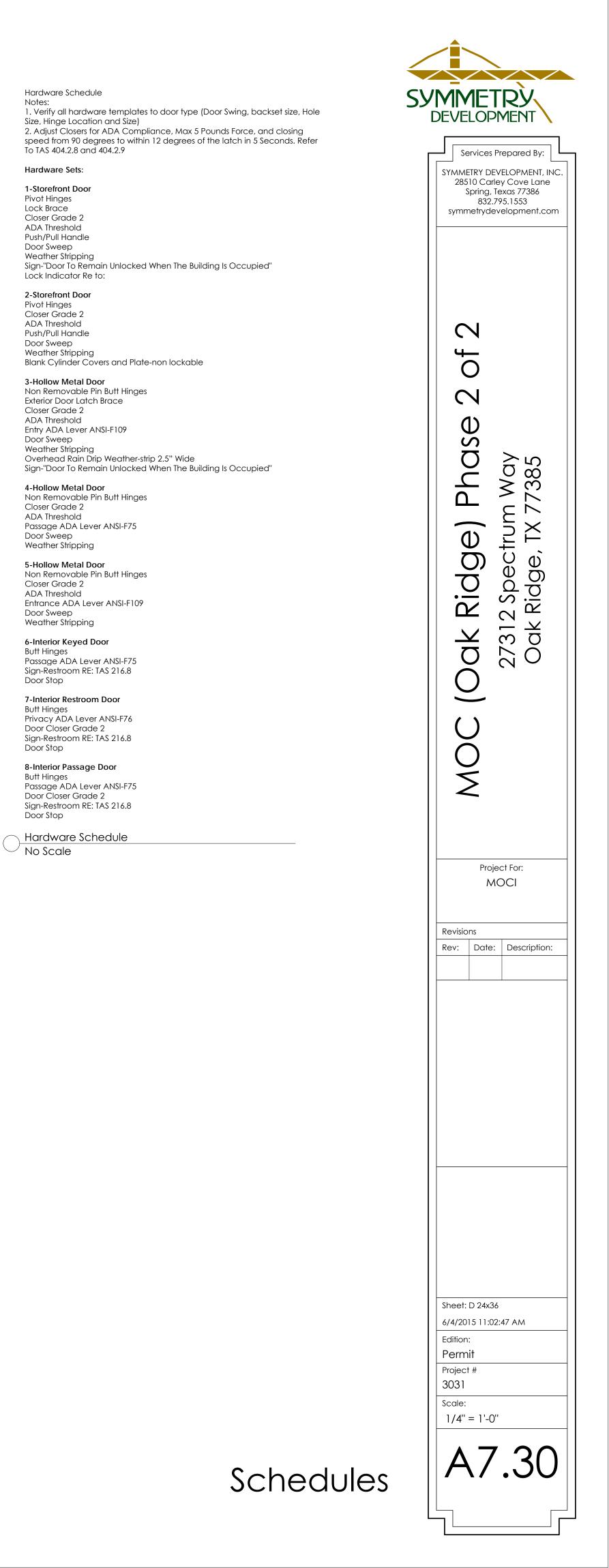


Door Type "F2" Single Exterior 3070 Hollow Metal 1-3/4" 20 Ga. Door and 16 Ga. Frame,Provide Closer Bracing at Frame and Door, Verify Frame Thickness based on Wall Type.

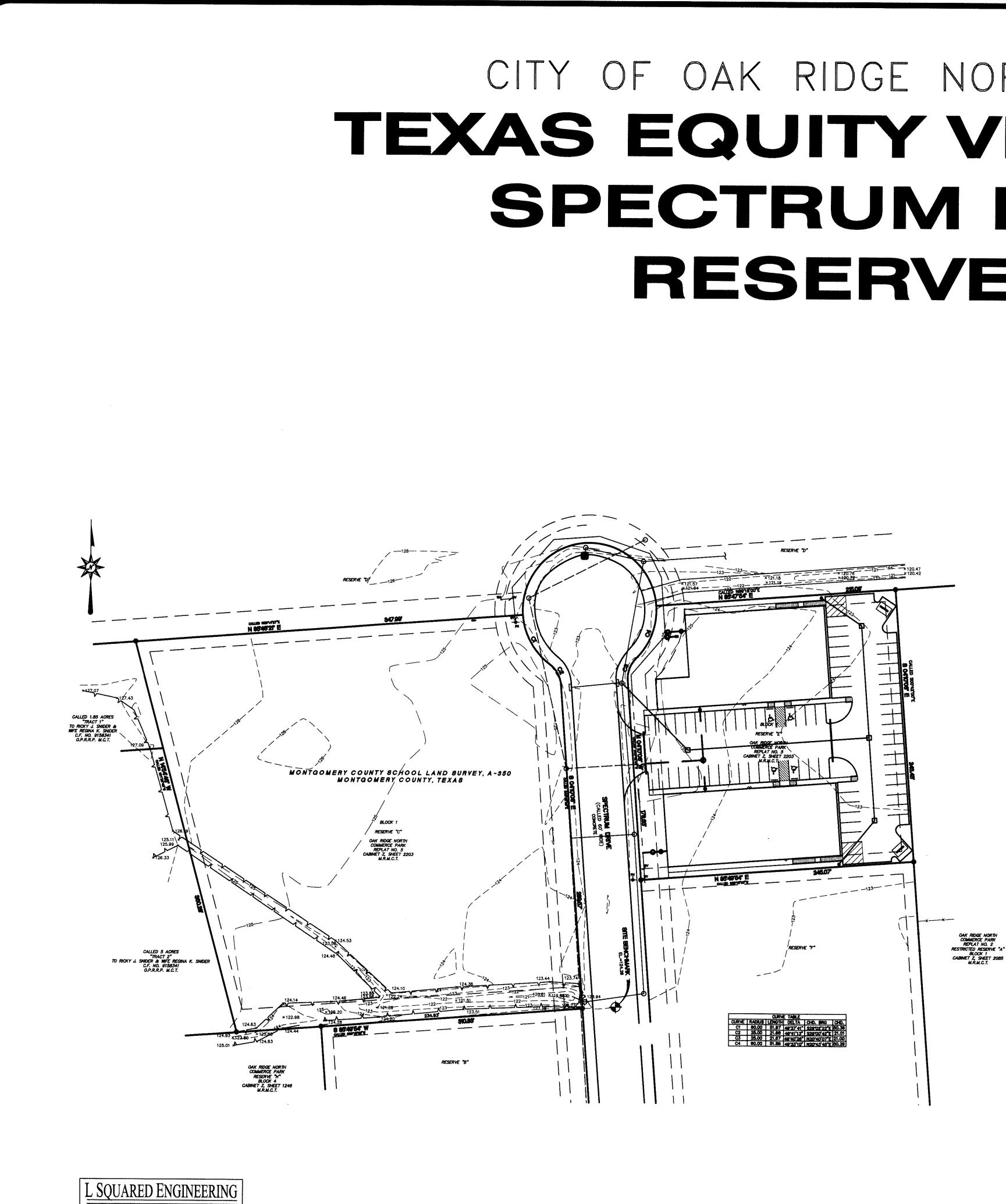
_	

Overhead Door-Rolling

Door & Window Legend 1/4" = 1'-0"



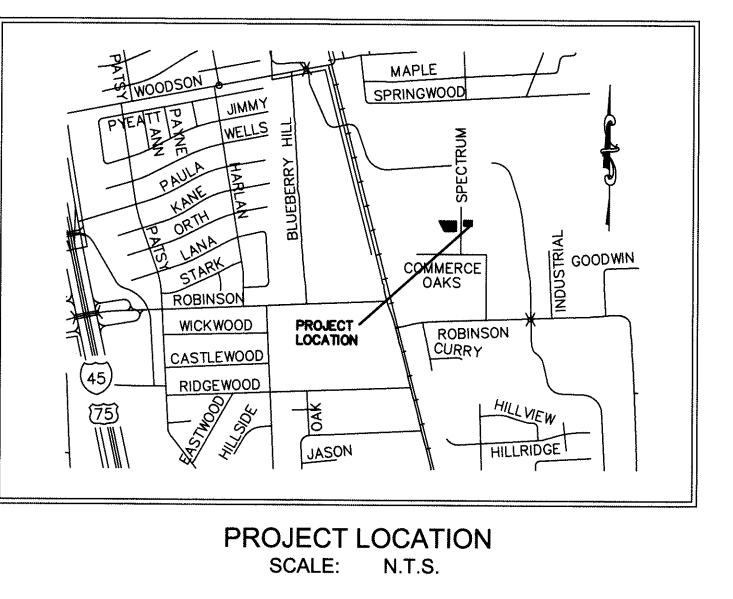
Notes:

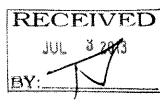


Civil . Consulting . Management

# CITY OF OAK RIDGE NORTH, TEXAS **TEXAS EQUITY VENTURES** SPECTRUM DRIVE RESERVE E

DETAIL:	TIT
1	CO
2	EXI
3	PRO
4	PAV
5	SW
6	GEN
7	GEN
8	PAV
D-1	<del>- CO/</del>
D-2	DRA
D-3	GEN
D-4	INLE





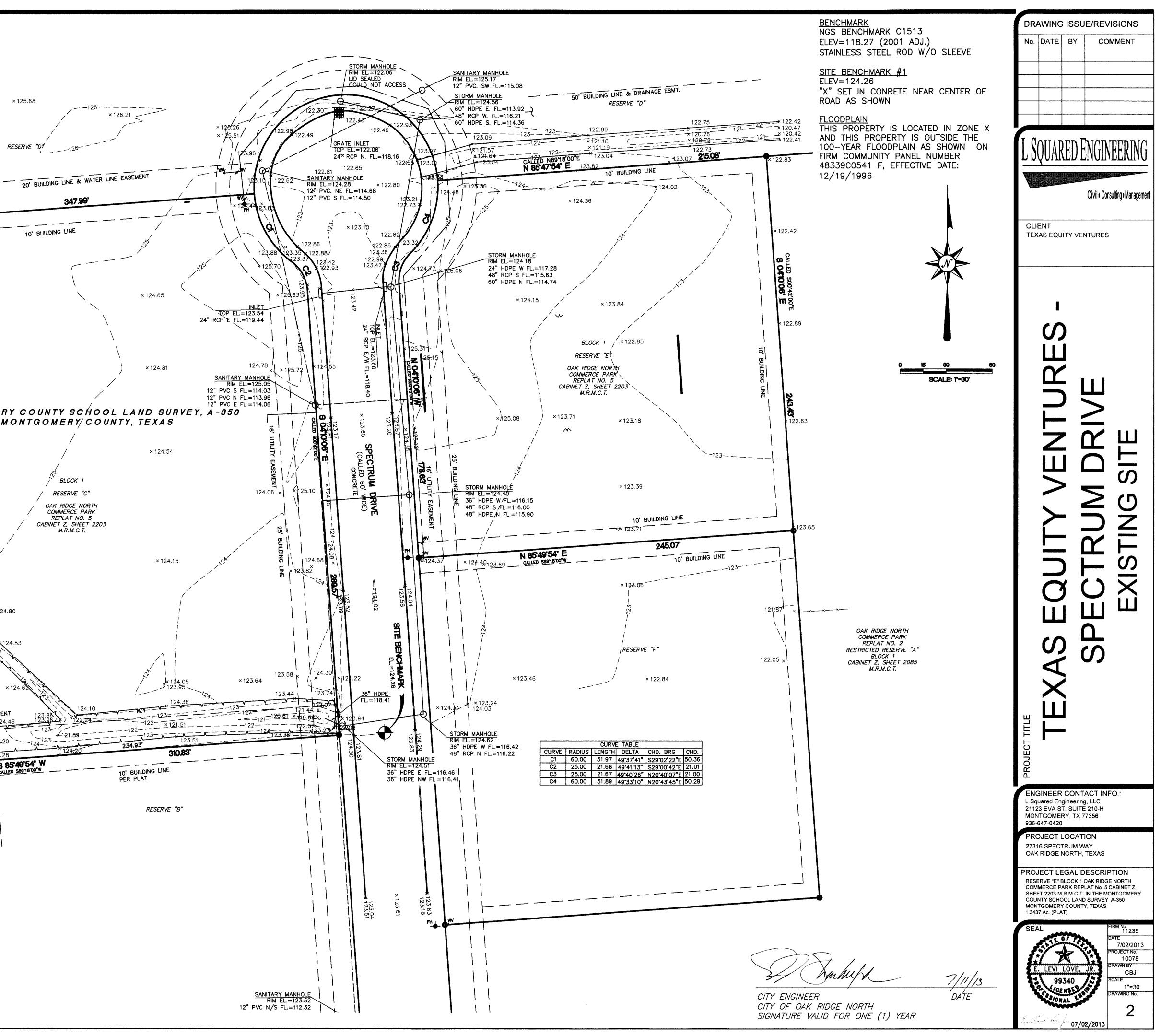


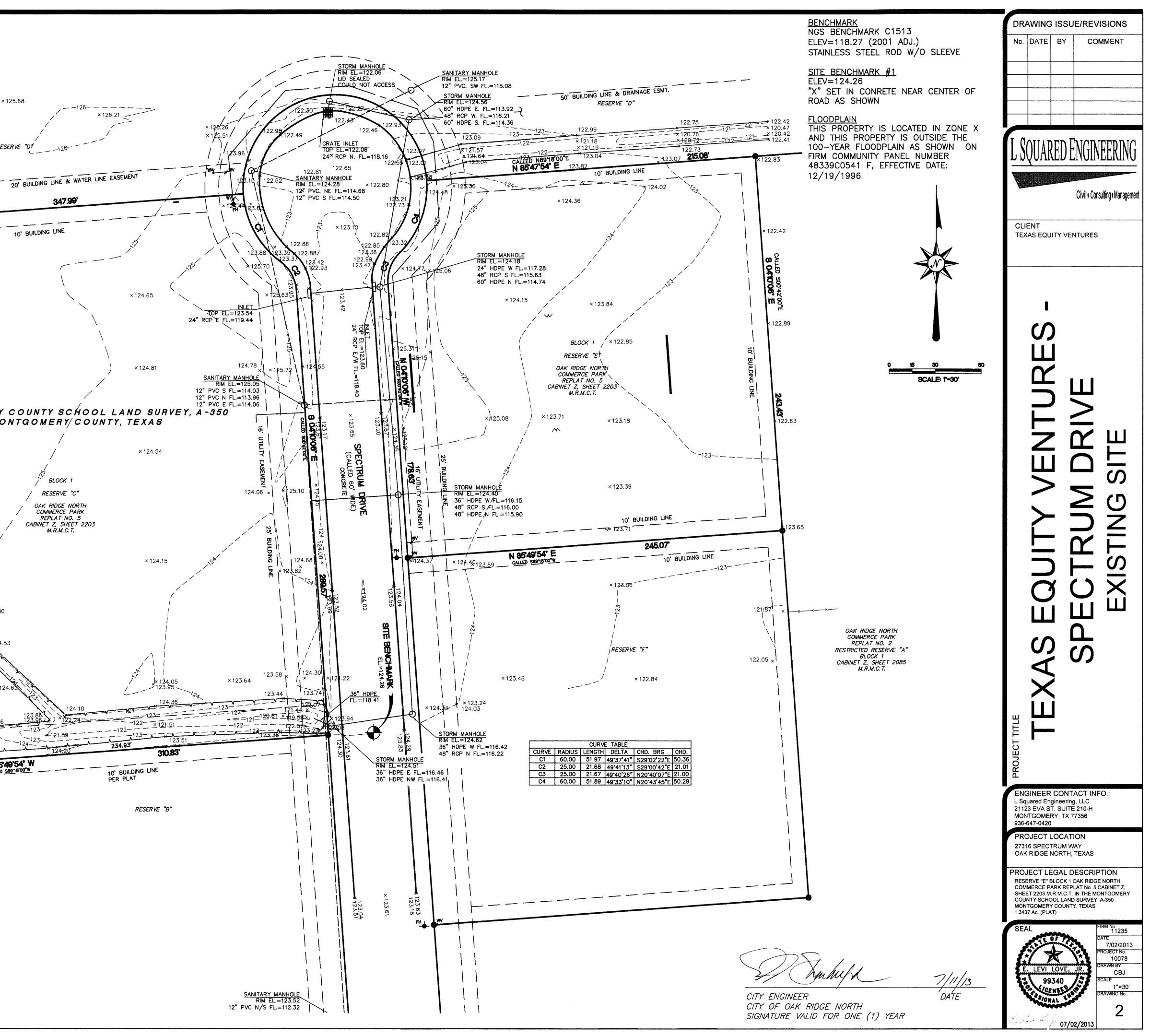
## INDEX

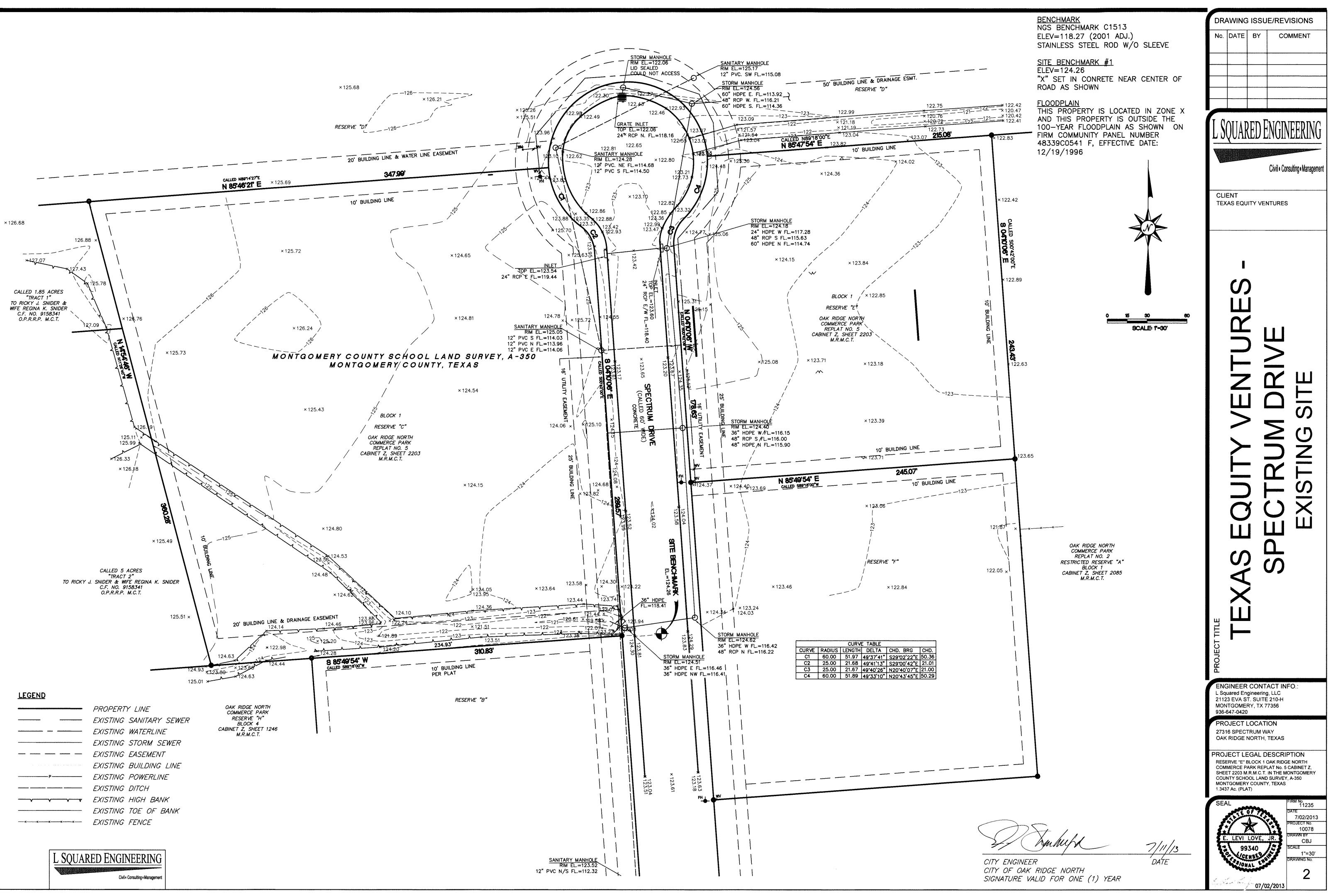
**OVER SHEET (ISTING SITE** ROPOSED SITE PLAN VING AND GRADING PLAN VPPP ENERAL NOTES ENERAL DETAILS VING DETAILS WER SHEET OMITED RAINAGE PLAN NERAL DETAILS ET BASKET DETAILS

7/11/13 CITY ENGINEER CITY OF OAK RIDGE NORTH SIGNATURE VALID FOR ONE (1) YEAR

DRAWING ISSUE/REVISIONS       No.     DATE       BY     COMMENT	
	-
	-
L SQUARED ENGINEERING	
Civil • Consulting • Management	
CLIENT TEXAS EQUITY VENTURES	
PROTECTION A CONTRACT A CONTRACTACTACTACTACTACTACTACTACTACTACTACTACTA	
ENGINEER CONTACT INFO.: L Squared Engineering, LLC 21123 EVA ST. SUITE 210-H MONTGOMERY, TX 77356 936-647-0420	
PROJECT LOCATION 27316 SPECTRUM WAY OAK RIDGE NORTH, TEXAS	
PROJECT LEGAL DESCRIPTION RESERVE "E" BLOCK 1 OAK RIDGE NORTH COMMERCE PARK REPLAT No. 5 CABINET Z, SHEET 2203 M.R.M.C.T. IN THE MONTGOMERY COUNTY SCHOOL LAND SURVEY, A-350 MONTGOMERY COUNTY, TEXAS 1.3437 Ac. (PLAT)	
SEAL FIRM No. 11235 DATE 7/02/2013 PROJECT No. 10078 DRAWN BY CBJ SCALE 1"=50' DRAWING No. 1 2 2 3 3 2 3 2 3 2 3 2 3 3 3 2 3 3 2 3 3 2 3 3 2 3 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3	







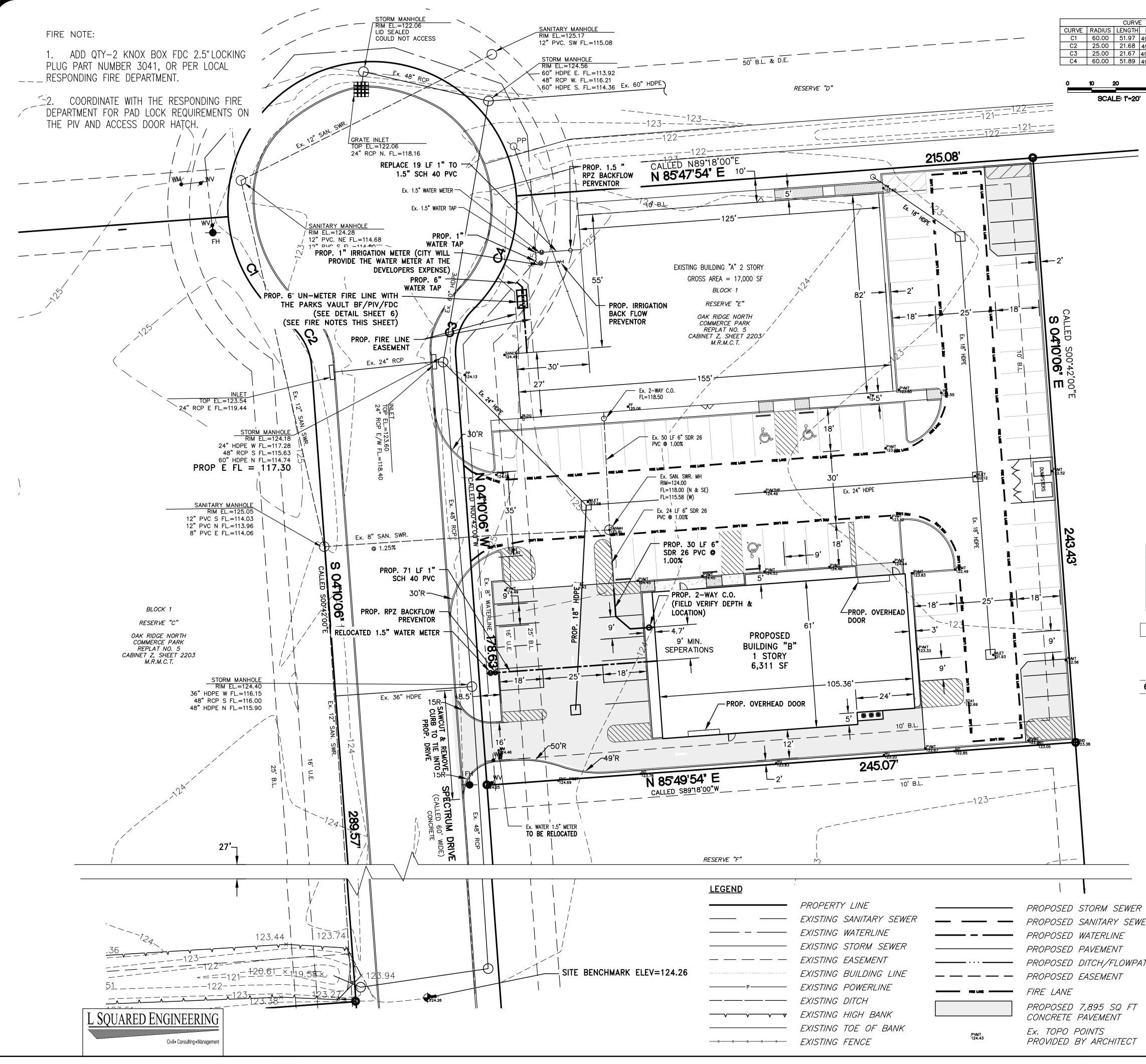
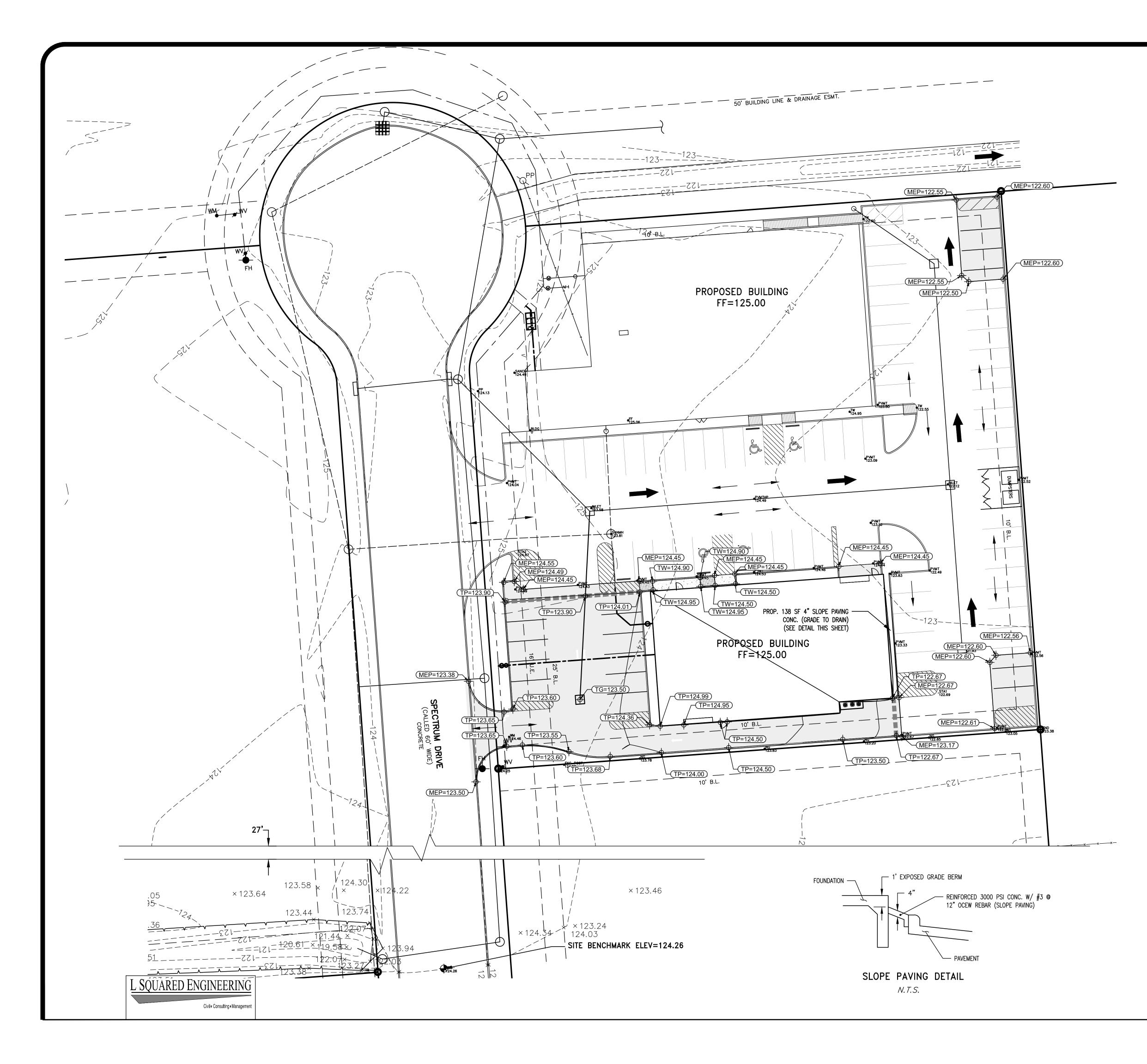


TABLE DELTA CHD. BRG CH 49'37'41" S29'02'22"E 50.3 49'41'13" S29'00'42"E 21.4 49'40'26" N20'40'07"E 21.0 49'33'10" N20'43'45"E 50.3 40 40	STAINLESS STEEL ROD W/	O SLEEVE	RAWING ISSUE/REVISIONS          DATE       BY       COMMENT         SQUAREDENGENGENEERING       Civil Consulting Management         LIENT       Consulting VENTURES
	SYMBOLS LEGEND		LOUT I VENTUREO
REPLACING F PUBLIC UTILI NECESSARY. 2. EXISTIN AND ARE BA PARKING USE:	TOTAL REQUIRE	AMT REQ'D 42.5 1.49 5D=43.99 NO PARKING	TEXAS EQUITY VENTURES - SPECTRUM DRIVE PROPOSED SITEPLAN
FIRE LANE – N	IO PARKING FIRE LANE -	NO PARKING	NGINEER CONTACT INFO.: Squared Engineering, LLC 123 EVA ST. SUITE 210-H ONTGOMERY, TX 77356 6-647-0420
	20′	PF 275	ROJECT LOCATION 7316 SPECTRUM WAY AK RIDGE NORTH, TEXAS
ER	<u>FIRE LANE DETAIL</u> N.T.S.	PRC RE CO SH CO MC	OJECT LEGAL DESCRIPTION ESERVE "E" BLOCK 1 OAK RIDGE NORTH DMMERCE PARK REPLAT No. 5 CABINET Z, IEET 2203 M.R.M.C.T. IN THE MONTGOMERY DUNTY SCHOOL LAND SURVEY, A-350 DNTGOMERY COUNTY, TEXAS 3437 Ac. (PLAT)
TH		Ĩ	EAL FIRM No. 11235 DATE 3/27/2015 PROJECT NO. 10078 DRAWN BY CBJ SCALE



#### <u>BENCHMARK</u> NGS BENCHMARK C1513 ELEV=118.27 (2001 ADJ.) STAINLESS STEEL ROD W/O SLEEVE

<u>SITE BENCHMARK #1</u> ELEV=124.26 "X" SET IN CONRETE NEAR CENTER OF ROAD AS SHOWN

<u>FLOODPLAIN</u>

THIS PROPERTY IS LOCATED IN ZONE X AND THIS PROPERTY IS OUTSIDE THE 100-YEAR FLOODPLAIN AS SHOWN ON FIRM COMMUNITY PANEL NUMBER 48339C0541 F, EFFECTIVE DATE: 12/19/1996

### SYMBOLS LEGEND

0	IRON ROD
$\bullet$	BENCHMARK
Ъ <sub>ЬЬ</sub>	EXISTING POWER POLE
	EXISTING FIRE HYDRANT
, wv	EXISTING WATER VALVE
Щ	EXISTING TELEPHONE PED.
0	PROPOSED MANHOLE
0	PROPOSED CLEANOUT
	PROPOSED STORM INLET
	PROPOSED WATER METER

SCALE: 1"=20'

10 20

CURVE TABLE									
CURVE	RADIUS	LENGTH	DELTA	CHD. BRG	CHD.				
C1	60.00	51.97	49 <b>°</b> 37'41"	S29°02'22"E	50.36				
C2	25.00	21.68	49 <b>'</b> 41'13"	S29'00'42"E	21.01				
C3	25.00	21.67	49 <b>'</b> 40'26"	N20°40'07"E	21.00				
C4	60.00	51.89	49 <b>°</b> 33'10"	N20 <b>°</b> 43'45"E	50.29				

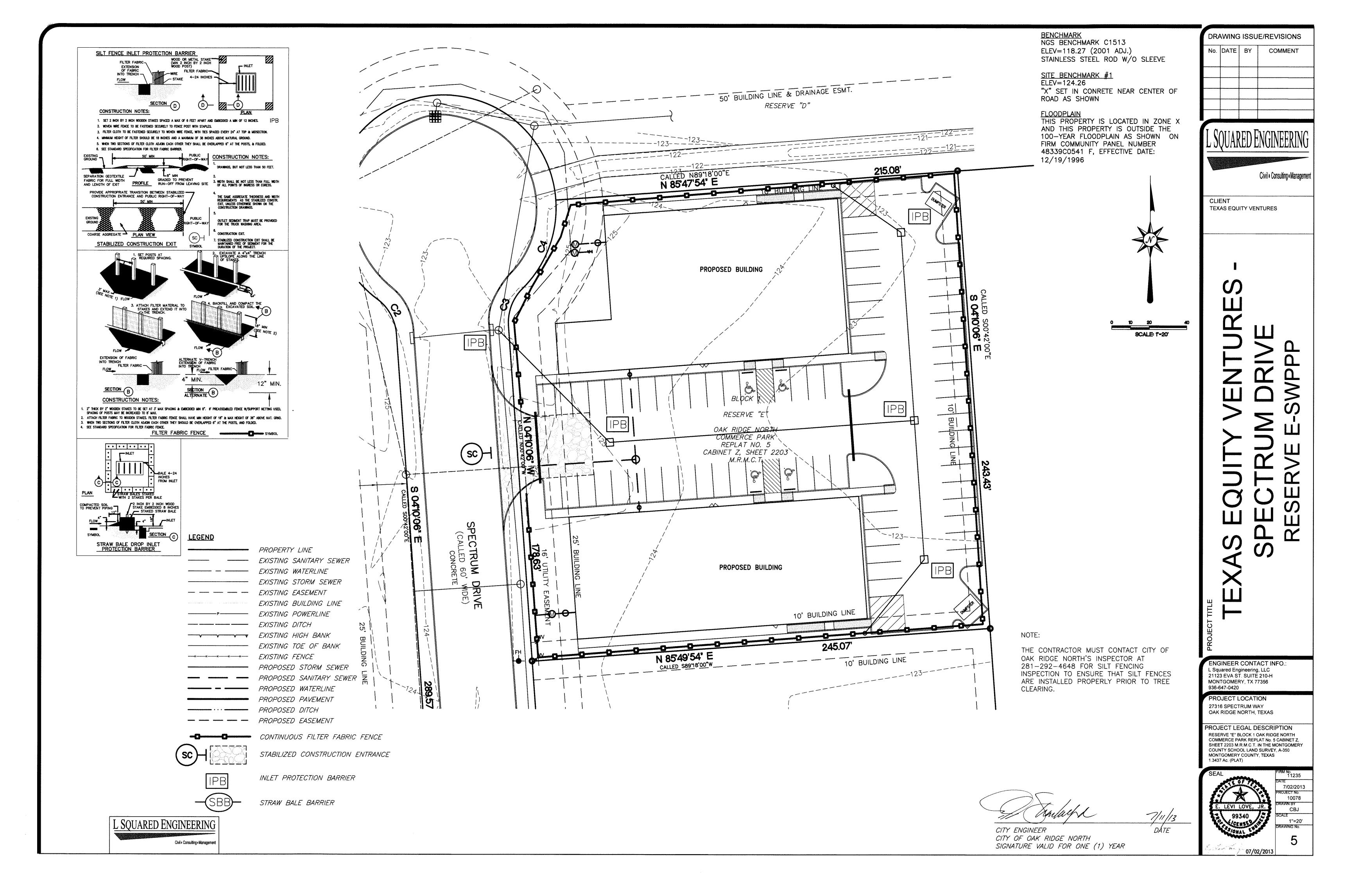
### <u>LEGEND</u>

<u>_EGEND</u>		
	PROPERTY LINE	
	EXISTING SANITARY SEWER	
	EXISTING WATERLINE	
	EXISTING STORM SEWER	
	EXISTING EASEMENT	
	EXISTING BUILDING LINE	
P	EXISTING POWERLINE	
	EXISTING DITCH	
vvv	EXISTING HIGH BANK	
	EXISTING TOE OF BANK	
xxxx	EXISTING FENCE	
	PROPOSED STORM SEWER	
	PROPOSED SANITARY SEWER	
	PROPOSED WATERLINE	
	PROPOSED PAVEMENT	
· · · ·	PROPOSED DITCH	
	PROPOSED EASEMENT	Щ
	<i>PROPOSED 7,895 SQ FT CONCRETE PAVEMENT</i>	CT TII
Р <b>УМТ</b> 124.43	Ex. TOPO POINTS PROVIDED BY ARCHITECT	PROJECT
(TW=???)	TOP OF WALK	
(TP=???)	TOP OF PAVEMENT	EN LS
(FL=???)	FLOWLINE	211 MC
(TG=???)	TOP OF GRATE	936
		PR
▲ ▲		273 OA
	GRADE BREAK	PRC
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		CO MO
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	EXTREME EVENT FLOW	SE
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ENGINEER	DATE	
OF OAK RIDGE NO		

DRAWING ISSUE/REVISIONS No. DATE BY COMMENT Civil • Consulting • Management CLIENT TEXAS EQUITY VENTURES S Ζ Ш  $\mathbf{M}$  $\frown$  $\sim$ C  $(\mathbf{J})$ **()** Ω Ш ENGINEER CONTACT INFO.: L Squared Engineering, LLC 21123 EVA ST. SUITE 210-H MONTGOMERY, TX 77356 036-647-0420 ROJECT LOCATION 7316 SPECTRUM WAY DAK RIDGE NORTH, TEXAS OJECT LEGAL DESCRIPTION RESERVE "E" BLOCK 1 OAK RIDGE NORTH COMMERCE PARK REPLAT No. 5 CABINET Z, SHEET 2203 M.R.M.C.T. IN THE MONTGOMERY COUNTY SCHOOL LAND SURVEY, A-350 IONTGOMERY COUNTY, TEXAS .3437 Ac. (PLAT) 11235 3/27/2015 10078 VI LOVE, JF CBJ 9340 1"=20' WING No

4

ິ03/27/2015



## GENERAL CONSTRUCTION NOTES

## PAVING CONSTRUCTION NOTES:

I. MATERIALS, CONSTRUCTION AND TESTING TO BE IN ACCORDANCE WITH CITY OF OAK RIDGE NORTH ORDINANCES AND SPECIFICATIONS, LATEST PRINTING AND AMENDMENTS THERETO.

- 2. CONTRACTOR TO OBTAIN ALL DEVELOPMENT AND CONSTRUCTION PERMITS REQUIRED BY TEXAS AND CITY OF OAK RIDGE NORTH PRIOR TO COMMENCEMENT OF WORK.
- CONTRACT SHALL GIVE NOTICE TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS OR PERSONS IN CHARGE OF PRIVATE AND PUBLIC UTILITIES OR RAILROADS AFFECTED BY HIS OPERATIONS AND CITY OF OAK RIDGE NORTH, DEPARTMENT OF ENGINEERING, TELEPHONE (936)-539-7833, 48 HOURS PRIOR TO COMMENCEMENT OF WORK IN STREET RIGHT-OF-WAY OR EASEMENT.
- CONTRACTOR HAS SOLE RESPONSIBILITY FOR FIELD LOCATION OF ALL EXISTING FACILITIES, CALL TEXAS ONE CALL FOR LOCATING SERVICES. CONTRACTOR SHALL COORDINATE ALL CONFLICTS WITH THE APPROPRIATE GOVERNING AGENCY.
- THE LOCATION OF CONROE-LUFKIN TELEPHONE EXCHANGE OR AT&T COMPANY, ENTEX, AND ENTERGY-GSU (GULF STATE UTILITIES) UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL REQUEST THE EXACT LOCATION OF THESE FACILITIES BY CALLING THE UTILITY COMPANIES, AT LEAST 48 HOURS BEFORE COMMENCING WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES, WHICH OCCURS DUE TO HIS FAILURE TO REQUEST THE LOCATION AND PRESERVATION OF THESE UNDERGROUND FACILITIES. ANY DAMAGE TO EXISTING FACILITIES INCURRED AS A RESULT OF CONSTRUCTION OPERATIONS WILL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE
- TEXAS LAW ARTICLE 1436C, PROHIBITS ALL ACTIVITIES IN WHICH PERSONS OR EQUIPMENT MAY COME WITHIN 6 FEET OF ENERGIZED OVERHEAD POWER LINES, AND FEDERAL REGULATION, TITLE 29, PART 1910.130 (1) AND PART 1926.440 (A) (15) REQUIRE A MINIMUM CLEARANCE OF 10 FEET FROM THESE FACILITIES. THE ABOVE LAWS CARRY BOTH CRIMINAL AND CIVIL LIABILITIES, WITH CONTRACTORS AND OWNERS BEING LEGALLY RESPONSIBLE FOR THE SAFETY OF WORKERS UNDER THESE LAWS. IF YOU OR YOUR COMPANY MUST WORK NEAR OVERHEAD POWER LINES, CALL THE POWER COMPANY FOR THE LINES TO BE DE-ENERGIZED AND/OR MOVED AT YOUR EXPENSE.
- CONSTRUCTION SHALL COMPLY WITH THE LATEST REVISIONS OF OSHA REGULATIONS AND STATE OF TEXAS LAW CONCERNING TRENCHING AND SHORING. CONTRACTOR SHALL PROVIDE A TRENCH SAFETY SYSTEM TO MEET, AS A MINIMUM, THE REQUIREMENTS OF OSHA SAFETY AND HEALTH REGULATIONS. PART 1926, SUB-PART P AS PUBLISHED IN THE FEDERAL REGISTER, VOLUME 54, NO. 209, DATED OCTOBER 31, 1989, AND CITY OF OAK RIDGE NORTH ORDINANCE NUMBER 1033-87, AND LATEST REVISIONS.
- DETAILS PREPARED BY CITY OF OAK RIDGE NORTH DO NOT EXTEND TO OR INCLUDE DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS, INCLUDING THE PLANS AND SPECIFICATIONS REQUIRED BY CHAPTER 756, SUBCHAPTER "C" OF THE TEXAS HEALTH AND SAFETY CODE.
- 9. CONTRACTOR SHALL COVER OPEN EXCAVATIONS WITH ANCHORED STEEL PLATES DURING NON-WORKING HOURS, ALONG EXISTING ROADWAYS AND TRAFFIC AREAS.
- 10. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE CITY ENGINEER. ALL CONSTRUCTION STORM RUNOFF SHALL COMPLY WITH STORM WATER MANAGEMENT FOR CONSTRUCTION ACTIVITIES AND THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS.
- 11. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE FLAGMAN, SIGNING, STRIPING AND WARNING DEVICES, ETC., DURING CONSTRUCTION IN ACCORDANCE WITH THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES." CONTRACTOR SHALL MAINTAIN AT LEAST ONE LANE OF TRAFFIC IN EACH DIRECTION DURING WORKING HOURS OR PROVIDE ALL-WEATHER DETOURS AROUND CONSTRUCTION SITE, PROVIDE PUBLIC NOTIFICATION, AND USE UNIFORMED POLICE OFFICERS TO CONTROL TRAFFIC.
- 12. EXISTING PAVEMENTS, CURBS, SIDEWALKS AND DRIVEWAYS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO CITY OF OAK RIDGE NORTH STANDARDS. ALL ASPHALT AND CONCRETE DRIVEWAYS EXCAVATED DURING CONSTRUCTION SHALL BE BACKFILLED WITH STABILIZED MATERIAL AND RETURNED TO EXISTING CONDITIONS. ALL STATE AND COUNTY HIGHWAY PAVEMENT AND RAILROAD RIGHT-OF-WAYS TO BE BORED ACCORDING TO THE RULES, REGULATIONS AND REQUIREMENTS FOR APPROVAL AND ACCEPTANCE BY SAID AGENCIES. SEE CONROE STANDARD PAVING DETAIL SHEETS DRAWING #1203 FOR REQUIREMENTS.
- 13. EXISTING ROADS AND/OR RIGHT-OF WAYS DISTURBED DURING CONSTRUCTION SHALL BE AS GOOD OR BETTER THAN THE CONDITION PRIOR TO STARTING THE WORK, UPON COMPLETION OF THE PROJECT. AFTER DISTURBED AREAS HAVE BEEN COMPLETED TO THE LINES, GRADES, AND CROSS-SECTIONS SHOWN ON THE PLANS. SEEDING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS TO ESTABLISH ADEQUATE VEGETATION COVERAGE TO ELIMINATE EROSION. IF NO PROVISION FOR PLANTING GRASS IS INCLUDED IN THE PLANS OR SPECIFICATIONS, THE MINIMUM REQUIREMENT FOR THIS ITEM WILL BE IN ACCORDANCE WITH THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR "SODDING OR SEEDING FOR EROSION CONTROL.
- 14. ALL TRENCHES, INCLUDING TRENCHES FOR LEADS AND STUBS UNDER PAVEMENT AND TO A POINT ONE (1) FOOT BACK OF ALL CURBS SHALL BE BACKFILLED WITH CEMENT STABILIZED SAND AS PER SPECIFICATION TO A POINT IMMEDIATELY BELOW THE SUBGRADE. TRENCHES OTHER THAN UNDER PAVEMENT SHALL BE BACKFILLED WITH SUITABLE EARTH MATERIAL IN 6 INCH LAYERS AND MECHANICALLY COMPACTED TO A DENSITY OF NOT LESS THAN 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR COMPACTION TEST (ASTM DESIGNATION D-698/AASHTO T99). MOISTURE CONTENT OF BACKFILL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CEMENT STABILIZED SAND SPECIFICATIONS. SEE CITY STANDARD DETAIL SHEETS FOR BEDDING AND OTHER DESIGN REQUIREMENTS.
- 15. INCLUDE PRICE OF ALL BEDDING AND BACKFILL OF TYPE REQUIRED, IN PRICE BID PER LINEAR FOOT OF PIPE.
- 16. CONTRACTOR TO REMOVE EXISTING PLUGS AND CONNECT TO EXISTING UTILITY LINES AS INDICATED ON PLANS.
- 17. UNLESS OTHERWISE NOTED ON PLANS, WHERE MANHOLES ARE LOCATED WITHIN THE UTILITY EASEMENTS, THE CONTRACTOR SHALL SET RIM ELEVATIONS TWO INCHES ABOVE FINISHED GROUND ELEVATIONS. WHEN TRENCH CONDITION REQUIRES THE USE OF WELL POINTS, THIS IS TO BE REQUESTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER
- 19. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING THE MUD AND/OR DIRT DEPOSITED ON EXISTING PAVEMENT DUE TO HIS CONSTRUCTION ACTIVITY DAILY. ALL EQUIPMENT AND DEBRIS FROM CONSTRUCTION TO BE MOVED AT THE END OF THE PROJECT.

#### SANITARY SEWER CONSTRUCTION NOTES:

- SANITARY SEWERS SHALL BE CONSTRUCTED IN COMPLIANCE WITH THE LATEST CITY SPECIFICATIONS FOR SEWER CONSTRUCTION, AND TESTED AS SPECIFIED IN THE CITY TEST PROCEDURE FOR EITHER LIQUID OR AIR, INCLUDING ALL AMENDMENTS AND REVISIONS THERETO. BACKFILL AND BEDDING FOR SANITARY SEWERS MUST MEET ALL MINIMUM ASPECTS OF ASTM D-2321 AND MUST BE PLACED IN ACCORDANCE WITH CITY OF OAK RIDGE NORTH DETAIL.
- 2. ALL SANITARY SEWER MANHOLES SHALL BE STANDARD CITY OF OAK RIDGE NORTH PRE-CAST USING RAM-NECK OR CAST IN PLACE CONCRETE IN ACCORDANCE WITH ASTM C-478. NO BRICK MANHOLES ALLOWED. FOR PVC PIPE, USE MANHOLE WATER STOP GASKET AND CLAMP ASSEMBLY AT MANHOLE CONNECTIONS. SANITARY SEWER MANHOLE RIMS SHALL BE 3 INCHES ABOVE NATURAL GROUND. BACKFILL SHALL BE ADDED AND SLOPED AWAY FROM THE MANHOLE RIM FOR DRAINAGE PURPOSES.
- MANHOLE CONCRETE BOTTOM FOUNDATION SHALL BE 12" REINFORCED WITH #5 BARS AT 12". ON CENTERS, EACH WAY, WITH A MINIMUM OF 6" EXTRA SLAB LENGTH AROUND THE MANHOLE, IF POURED IN PLACE. APPROVED CHEMICALS SHALL BE USED FOR PATCHING AROUND MANHOLE JOINTS. MORTAR CEMENT WILL NOT BE ACCEPTED.
- 4. SANITARY SEWER PIPE SHALL BE PVC SDR 26 OR PVC SDR 35 (WITH APPROVAL), IN ACCORDANCE WITH ASTM SPECIFICATIONS D-3034, FOR 4" THROUGH 15" AND ASTM F-879 FOR 18" THROUGH 27". MINIMUM SIZE SANITARY SEWER MAIN IS 6". SDR 35 MAY BE USED WHEN DEPTH IS MORE THAN 3 FEET AND LESS THAN 6 FEET.
- SEWER LINES SHALL BE LOCATED ON THE OPPOSITE SIDE OF THE STREET FROM WHERE WATER IS LOCATED. SEWER LINE AND WATER LINE SEPERATION SHALL BE IN ACCORDANCE WITH TEXAS NATURAL RESOURCE CONSERVATION COMMISSION RULES, CHAPTER 317.13 APPENDIX E. (SEE THIS SHEET FOR THESE RULES).
- NO SEWER PIPE SHALL BE LAID ON AN UNSTABLE FOUNDATION. SELECTED MATERIAL SHALL BE USED AND/OR WET SAND CONSTRUCTION DETAILS, WHICHEVER APPLIES IN THE OPINION OF THE ENGINEER. NO PIPE SHALL BE COVERED WITHOUT APPROVAL OF THE ENGINEER OR HIS REPRESENTATIVE. SANITARY SEWERS CONSTRUCTED IN WET SAND SHALL HAVE A SPECIAL PROCEDURE AND SHALL BE CONSTRUCTED AS PER CITY OF OAK RIDGE NORTH DRAWING NUMBER 1201.
- WHEN THE NATURAL GROUND LEVEL AROUND MANHOLE LIES BELOW THE 100 YEAR FLOODPLAIN ELEVATION, THE MANHOLE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF OAK RIDGE NORTH DRAWING NUMBER 1201, STANDARD SEALED AND VENTED MANHOLE DETAIL
- 8. A DEFLECTION TEST SHALL BE REQUIRED AFTER THE BACKFILL HAS BEEN IN PLACE A MINIMUM OF 30 DAYS. THIS TEST SHALL BE DONE BY PULLING A HAND LINE WITH AN ATTACHED MANDREL FROM MAN-HOLE TO MANHOLE. THE MANDREL SHALL HAVE AN OUTSIDE DIAMETER THAT IS AT LEAST 95% OF THE ORIGINAL INSIDE DIAMETER OF THE PIPE. MANDREL TO BE MANUFACTURED WITH A MINIMUM OF SEVEN (7) RUNNERS, WITH EACH RUNNER BEING A MINIMUM OF 5 INCHES LONG. ANY PIPE NOT MEETING EST REQUIREMENTS TO BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. THE TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES
- 9. INFILTRATION/EXFILTRATION NOT TO EXCEED 200 GALLONS PER INCH DIAMETER PER MILE OF PIPE FOR 24 HOURS UNDER A MINIMUM OF 2 FEET OF HEAD, OR AN AIR TEST SHALL BE REQUIRED IN ACCORDANCE WITH ASTM C-828.
- 10. WHERE A SEWER LINE HAS LESS THAN (2) FEET OF COVER, PROVIDE CEMENT STABILIZED SAND BACKFILL MATERIAL.
- 11. CONTRACTOR SHALL KEEP RECORD OF LOCATION OF ALL STACKS, STUBS, SEWER LEADS, ETC. THE AS-BUILT MYLAR DRAWINGS MUST SHOW THE EXACT LOCATION.
- 12. IF SANITARY SERVICE LEADS ARE INSTALLED DURING CONSTRUCTION OF MAIN LINE, ALL LEADS TO HAVE A MINIMUM SLOPE OF 0.70% OR GREATER. ALL PVC LEADS TO BE THE SAME MATERIAL AS MAIN LINE. ALL DOUBLE SERVICE LEADS TO HAVE WYE LOCATED ON THE END OF THE LEAD. ALL SINGLE SERVICE LEADS TO BE 4 INCH, AND ALL DOUBLE SERVICE LEADS TO BE 6 INCH.
- 13. THE INSTALLATION OF ALL SANITARY SEWER LINES SHALL EXTEND ALONG THE ENTIRE LENGTH OF THE PROPERTY TO BE SERVED. SANITARY SEWER LINES THAT DEAD END SHALL EXTEND TO THE PROJECT LIMITS FOR FUTURE EXTENSIONS, WITH DEPTHS BASED ON ENTIRE SERVICE AREA.

**J SQUARED ENGINEERING** 

Civil . Consulting . Management

MANUAL FOR PAVEMENT MARKINGS. 12. BE OBSERVED

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PRIOR TO PLAN APPROVAL, A CERTIFIED LAB SHALL DETERMINE THE PERCENTAGE OF CEMENT CONTENT FOR SUBGRADE STABILIZATION IN SANDY SOILS WITH P.I. LESS THAN 10 TO OBTAIN A COMPRESSIVE STRENGTH OF 400 PSI IN 28 DAYS. THE LAB SHALL ALSO DETERMINE THE PERCENTAGE OF LIME CONTENT FOR SUBGRADE STABILIZATION IN CLAY SOILS WITH A P.I. GREATER THAN 20. ALL STREETS SHALL BE TESTED EVERY 200 FEET AND SUBGRADE SHALL BE STABILIZED UNLESS THE LAB CERTIFIES THE P.I. TO BE BETWEEN 10 AND 20 AND THAT STABILIZATION IS NOT NEEDED. A CONCRETE MIX DESIGN BY THE CERTIFIED LAB SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER BEFORE ANY CONCRETE IS POURED.

A MINIMUM OF TWO (2) COMPACTION TESTS SHALL BE PERFORMED A MAXIMUM DISTANCE OF 19. 500 FEET, AND FOR EACH 2'-6" MAXIMUM THICK LAYERS OF FILL. IN AREAS WHERE NO FILL IS REQUIRED. TWO (2) SAMPLES SHALL BE TAKEN AT A MAXIMUM DISTANCE OF 500 FEET. ADDITIONAL TESTING SHALL BE PERFORMED IF SEEN NECESSARY BY THE ENGINEER. NO ADDITIONAL LAYERS OF FILL SHALL BE MADE WITHOUT HAVING THE LAB'S WRITTEN APPROVAL OF COMPLETED LAYERS. PROOF ROLLING SHALL BE REQUIRED BY THE INSPECTOR ON EACH LAYER PLACED AND ANY "PUMPING" AREAS SHALL BE REMOVED IMMEDIATELY AND REPLACED OR STABILIZED AND RE-COMPACTED TO A PASSING DENSITY.

CONSTRUCTION OF ITEMS THAT ARE NOT SPECIFICALLY ADDRESSED TO BE IN ACCORDANCE WITH 20. THE TEXAS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS (LATEST REVISION). RIGHT-OF-WAY SHALL BE SLOPED FROM THE PROPERTY TO THE TOP OF CURB AND

21. HYDROMULCHED OR SODDED BEFORE FINAL ACCEPTANCE BY THE CITY TO CONTROL EROSION INTO THE STREET AND STORM SEWER. MEMBRANCE CURING TYPE 2, WHITE PIGMENTED, SHALL BE USED FOR CURING ALL CONCRETE 22. SURFACES IMMEDIATELY AFTER FINISHING OF SURFACES AND SHALL BE IN ACCORDANCE WITH

23. ALL FIRST STAGE INLET CONSTRUCTION SHALL BE PROTECTED WITH 3 INCH THICK BOARDS AT ALL TIMES

ALL SUBGRADE AND EMBANKMENT AREAS SHALL BE STRIPPED OF ALL ORGANIC AND UNSUITABLE MATERIAL BEFORE STABILIZATION OR FILLING IS BEGUN. MATERIAL USED FOR FILL SHALL BE CERTIFIED BY A LAB TO HAVE A PLASTICITY INDEX BETWEEN 10 AND 20.

FORMS SHALL BE SET TO THE PROPER GRADE AND PROPERLY SUPPORTED SO THAT NO 25. DISPLACEMENT OCCURS WITH THE PAVING ACTIVITIES. ALL CONCRETE SHALL BE VIBRATED BY MECHANICAL MEANS TO INSURE PROPER COMPACTION AND NO HONEY COMBS.

CONCRETE SHALL NOT BE PLACED WHEN THE TEMPERATURE IS BELOW 40° F. AND FALLING. BUT

26. MAY BE PLACED WHEN TEMPERATURE IS ABOVE 35" F. AND RISING. THE TEMPERATURE SHALL BE TAKEN IN THE SHADE AND AWAY FROM ARTIFICIAL HEAT.

THE CONTRACTOR SHALL ERECT AND MAINTAIN BARRICADES TO ADEQUATELY PROTECT THE PAVEMENT. THE CONTRACTOR SHALL HAVE PERSONNEL ON SITE UNTIL THE PAVEMENT HAS REACHED SUFFICIENT STRENGTH AS NOT TO BE DAMAGED BY ANIMALS OR FOOT TRAFFIC. JOINT SEALING MATERIAL SHALL BE A HOT POURED RUBBER TYPE AND SHALL MEET THE 28.

REQUIREMENTS IN ACCORDANCE WITH TEST METHOD TEX-525-C, OR AN APPROVED EQUAL.

THE FOLLOWING NOTES OR PHRASES ARE SPECIFIC TO PAVING IMPROVEMENTS AND ARE TO BE INCLUDED IN ALL SETS OF CONSTRUCTION DRAWINGS CONTAINING ANY PAVING IMPROVEMENTS. THE PLAN AND PROFILE SHEETS MAY IDENTIFY AND REFERENCE THE NOTES OR PHRASES IN THE PLAN VIEW BY NOTE NUMBER OF THE SPECIFIC TREATMENT REQUIRED.

IF PROPOSED SEMI-RIGID BASE WITH 2 INCH TYPE "D" HOT MIX ASPHALTIC CONCRETE SURFACING, FOR URBAN ESTATES ONLY, SEMI-RIGID BASE MAY BE 7 INCH CEMENT STABILIZED SHELL, 8 INCH CRUSHED LIMESTONE, OR 6 INCH HOT MIX ASPHALTIC CONCRETE.

EXPOSE 15 INCHES OF REINFORCING STEEL AT ALL PROPOSED SAWED JOINTS. IF NO REINFORCING STEEL EXISTS, USE HORIZONTAL DOWELS PER NOTE #4.

REQUIRE A ONE (1) INCH REDWOOD EXPANSION BOARD OR PRE-MOLDED NON-EXTRUDING JOINT BETWEEN SIDEWALK AND BACK OF CURB.

HORIZONTAL DOWELS SHALL BE NO. 6 BARS, 24 INCHES LONG, DRILLED AND EMBEDDED 8 INCHES INTO THE CENTER OF THE EXISTING SLAB WITH "PO ROC" OR EQUAL. DOWELS SHALL BE 24 INCHES CENTER TO CENTER UNLESS OTHERWISE SPECIFIED.

WHEN PROPOSED PAVEMENT ENDS AT A CONSTRUCTION JOINT LEAVE 15 INCHES OF REINFORCING STEEL EXPOSED BEYOND PAVEMENT, COAT WITH ASPHALT, AND WRAP WITH BURLAP FOR FUTURE PAVEMENT TIE-IN. AT EXPANSION JOINTS, EXTEND DOWELS 5 INCHES; COAT AND WRAP SAME AS CONSTRUCTION JOINTS.

WHEREVER A SIDEWALK IS REQUIRED BY CITY ORDINANCE , PROVIDE WHEELCHAIR RAMP AND/OR SIDEWALKS IN ACCORDANCE WITH THE "TEXAS DEPARTMENT OF TRANSPORTATION STANDARD WHEELCHAIR RAMP AND SIDEWALK DETAILS".

ADJUST EXISTING MANHOLE FRAMES AND COVERS TO FIT NEW GRADE.

ADJUST EXISTING WATER VALVE BOXES TO NEW PAVING GRADE. REPLACE ALL MISSING OR DAMAGED VALVE BOXES AND COVERS. PLACE WHITE OR YELLOW PLASTIC MARKER OR PAINT AS SHOWN BY THE UNIFORM TRAFFIC

PROVIDE A CONCRETE PAVING HEADER AT THE END OF THE PAVEMENT.

T. C. INDICATES TOP OF CURB ELEVATION AND T. P. INDICATES TOP OF PAVEMENT ELEVATION. CURB RADII AT STREET INTERSECTIONS TO BE 24.50 FEET TO BACK OF CURB WITH A MINIMUM

OF ONE (1) PERCENT GRADE UNLESS OTHERWISE NOTED. GUIDELINES SET FORTH IN THE "TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" WILL

TRANSVERSE EXPANSION JOINTS SHALL BE INSTALLED AT ALL RADIUS RETURNS AND AT A MAXIMUM SPACING OF 60 FOOT INTERVALS.

CONTRACTOR WILL USE CONTINUOUS LONGITUDINAL REINFORCING BARS IN CURBS AS SHOWN ON CITY OF OAK RIDGE NORTH PAVING DETAIL DRAWING.

CYLINDER COMPRESSION TEST OR BEAM FLEXURAL TEST SHALL BE REQUIRED. TWO SAMPLES SHALL BE TAKEN FOR EACH 100 CUBIC YARDS OF CONCRETE POURED. FOR SMALLER QUANTITIES, TWO SAMPLES SHALL BE TAKEN REGARDLESS OF THE AMOUNT OF CONCRETE POURED EACH DAY. CONCRETE SHALL HAVE 5 SACKS CEMENT PER CUBIC YARD AND A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI IN 28 DAYS OR A MINIMUM FLEXURAL STRENGTH OF 600 PSI IN 28 DAYS. NO TRAFFIC SHALL BE ALLOWED ON CONCRETE FOR 28 DAYS. IF EXTRA TESTS ARE MADE 75% OF THE 28 DAY STRENGTH IS ACHIEVED THE ENGINEER MAY ALLOW TRAFFIC ON THE PAVEMENT IF IT DEEMS NECESSARY.

THE TEXAS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS ITEM #526.

TAR WILL NOT BE ALLOWED. JOINTS SHALL BE CLEANED OF ALL SCALE, DIRT, DUST, CURING COMPOUND, AND CONCRETE TO THE WIDTH AND DEPTH OF THE JOINT AND SHALL BE DRY BEFORE SEALING IS PERFORMED.

REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM 615 GRADE 60 (GRADE 40 ONLY FOR BARS REQUIRING BENDING). REINFORCING STEEL SHALL BE SUPPORTED ON CHAIRS STRONG ENOUGH TO HOLD IT IN PLACE AND BE TIED.

CONCRETE FOR PAVEMENT SHALL MEET TEXAS DEPARTMENT OF HIGHWAY STANDARD SPECIFICATIONS AND SHALL BE A MINIMUM OF 5 SACK, 3,000 PSI UNLESS STATED SPECIFICALLY BY THE PLANS OR THE SPECIFICATIONS.

CONCRETE PAVEMENT SHALL BE CORED TO VERIFY THICKNESS OF CONCRETE AT INTERVALS OF 1,000 LINEAR FEET PER TRAFFIC LANE, IF REQUIRED BY THE CITY ENGINEER.

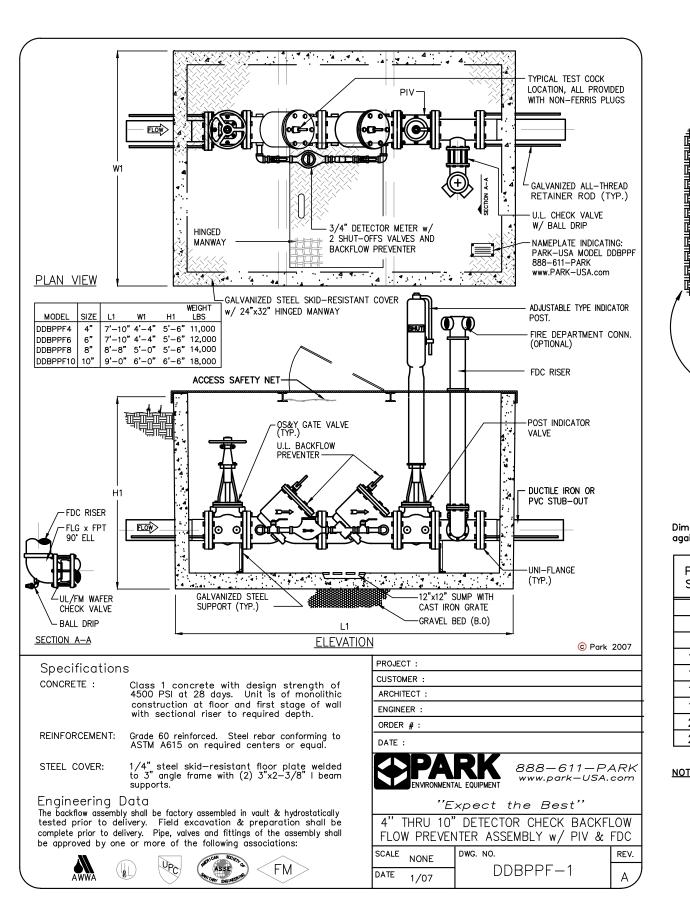
## STORM SEWER CONSTRUCTION NOTES:

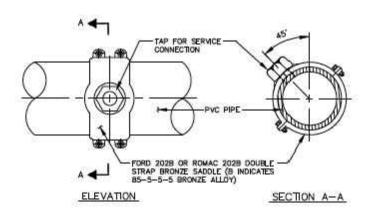
THE FOLLOWING NOTES ARE SPECIFIC TO STORM SEWER CONSTRUCTION AND ARE TO BE INCLUDED IN ALL SETS OF CONSTRUCTION DRAWINGS CONTAINING ANY STORM SEWER CONSTRUCTION:

STORM SEWER AND LEADS SHALL BE REINFORCED CONCRETE PIPE, ASTM C-76, CLASS III, WITH O-RING RUBBER GASKET JOINTS, AND SHALL BE INSTALLED, BEDDED AND BACKFILLED IN 2. PRIOR TO INSTALLATION OF WATER METER, WATER METER LEAD OR UNMETERED FIRE SPRINKLER LINE, THE CONTRACTOR SHALL CONTACT THE PERMIT DIVISION. ACCORDANCE WITH CITY OF OAK RIDGE NORTH STANDARD DETAIL DRAWING.

NOTE: HDPE PIPE MAY BE USED PROVIDED THAT IT IS BACKFILLED WITH CEMENT STABILIZED SAND (1) SACK CEMENT/TON), OR OTHER BACKFILL MATERIALS THAT HAVE BEEN APPROVED BY THE COUNTY. SEE NOTES BELOW.

- 4. SEPARATION DISTANCES FOR ALL WATER MAIN AND SANITARY SEWER MAIN CONSTRUCTION SHALL BE ALL PROPOSED PIPE STUB OUTS FROM MANHOLES OR INLETS ARE TO BE PLUGGED WITH 8 INCH GOVERNED BY THE "TEXAS NATURAL RESOURCES CONSERVATION COMMISSION RULES AND BRICK WALLS UNLESS OTHERWISE NOTED. REGULATIONS FOR DESIGN CRITERIA FOR SEWERAGE SYSTEMS", SECTION 317.20, LATEST PRINTING. REFER TO THE CITY OF OAK RIDGE NORTH DESIGN MANUAL DIVISION VI, WATER MAIN DESIGN 3. A. ALL BOX CULVERTS INSTALLED SHALL BE PLACED ON A MINIMUM OF 6 INCHES OF REQUIREMENTS, PART 1.04, K-1, 2, AND 3 FOR CLEARANCE REQUIREMENTS. CEMENT STABILIZED SAND (CEMENT STABILIZED SAND SHALL BE 12 SACK CEMENT PER TON).
- B. FOR INSTALLATION OF PRE-CASE CONCRETE BOX CULVERTS IN POOR SAIL CONDITIONS, A 7 INCH REINFORCED CONCRETE SLAB SHALL BE INSTALLED.
- FOR INSTALLATION OF MONOLITHIC REINFORCED CONCRETE BOX CULVERTS IN POOR SOIL CONDITIONS. A 4 INCH THICK CLASS "C" CONCRETE SEAL SLAB SHALL BE INSTALLED, PRIOR TO CONSTRUCTION OF BOX CULVERTS.
- 4. STORM SEWER MANHOLES SHALL BE STANDARD PRE-CAST, UNLESS OTHERWISE NOTED.
- ALL INLETS TO BE CITY OF OAK RIDGE NORTH TYPE "C", "C-1" OR "C-2" UNLESS OTHERWISE STATED ON PLANS. INLETS TO BE STANDARD DEPTH UNLESS OTHERWISE NOTED.
- 6. ALL STORM SEWER LEADS SHALL BE 18 INCH MINIMUM UNLESS OTHERWISE INDICATED.
- GRADE DROP ON LEADS BETWEEN INLETS TO BE A MINIMUM OF 0.20 FOOT. GRADE DROP BETWEEN INLET AND MANHOLES TO BE 0.20 FOOT UNLESS OTHERWISE SHOWN.
- WHEN MANHOLE FRAME AND COVER IS REQUIRED, USE EAST JORDAN 24" FRAME AND COVER (OR EQUAL) WITH THE CITY OF OAK RIDGE NORTH LOGO EMBEDDED IN LID. 9. FOR ADJUSTMENT OF MANHOLE LIDS USE STANDARD CONCRETE RINGS.
- 10. CONCRETE USED FOR ALL POURED-IN-PLACE MANHOLES, INLETS, WINGWALLS, HEADWALLS AND OTHER APPURTENANCES TO BE CLASS "A" CONCRETE WITH 3,000 P.S.I. STRENGTH AT 28 DAYS. 11. ALL EXPOSED CORNERS TO BE CHAMFERED 3/4".
- NOTE: OTHER BACKFILL MATERIALS MAY BE USED, BASED ON THE GEOTECHNICAL REPORT, AS PER HDPE SPECIFICATIONS, SECTION 6.f. BACKFILL MUST BE USED WITH APPROPRIATE COMPACTION.
- NOTE: SEE SPECIFICATIONS FOR THE USE OF HIGH DENSITY POLYETHYLENE PIPE FOR STORM DRAINS. SPECIFIC TECHNICAL INFORMATION MAY BE FOUND IN THE DESIGN MANUAL AND IN THE STREETS AND DRAINAGE SPECIFICATIONS.

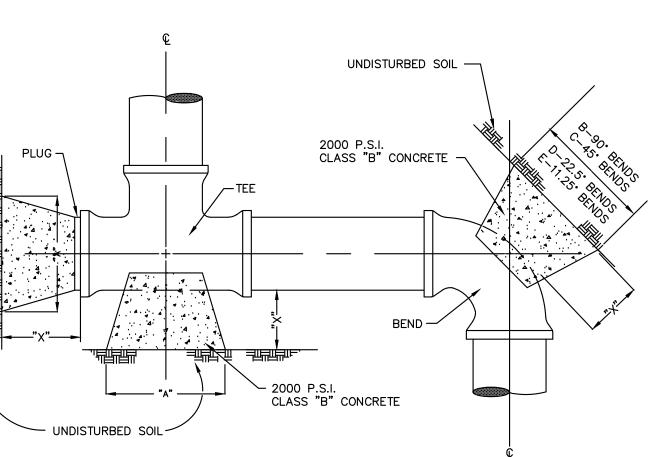




TYPICAL SERVICE CONNECTION FOR 1" OR SMALLER WATER TAPS (FOR SERVICE TAPS LARGER THAN 1" SEE DETAIL ON SHT. 3 OF 5)

### WATER CONSTRUCTION NOTES

- CONTRACTOR SHALL PROVIDE ADEQUATE THRUST BLOCKING TO WITHSTAND TEST PRESSURE AS SPECIFIED IN CITY OF OAK RIDGE NORTH STANDARD DRAWINGS AND REQUIREMENTS FOR WATER MAIN CONSTRUCTION AND MATERIALS.
- 3. PRIOR TO WATER MAIN CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE CITY BUILDING OFFICIAL AND COMPLY WITH ALL REQUIREMENTS NECESSARY FOR THE ISSUANCE OF A WORK ORDER FOR THE WATER MAIN CONSTRUCTION.
- 5. TWELVE-INCH (12") AND SMALLER MAINS SHALL HAVE A MINIMUM COVER OF FOUR FEET (4') FROM THE TOP OF THE CURB OR FIVE FEET (5') FROM THE MEAN ELEVATION OF THE BOTTOM OF THE NEARBY DITCH AND NEARBY RIGHT-OF-WAY ELEVATION FOR OPEN DITCH SECTIONS.
- 6. MAINS LARGER THAN TWELVE-INCHES (12") SHALL HAVE A MINIMUM COVER OF FIVE FEET (5') FROM THE TOP OF THE CURB OR SIX FEET (6') FROM THE MEAN ELEVATION FOR OPEN DITCH SECTIONS
- 7. ALL WATER MAINS SHALL BE HYDROSTATICALLY TESTED BEFORE BACTERIOLOGICAL TESTING IN ACCORDANCE WITH AWWA STANDARD C-600.
- 8. ALL WATER PIPING SHALL BE DISINFECTED AND BACTERIOLOGICALLY TESTED PRIOR TO USE IN ACCORDANCE WITH AWWA STANDARD C-601.
- 9. ALL WATER MAINS 4" THROUGH 12" SHALL BE C-900 (SDR-18). ALL WATER MAINS 14" THROUGH 36" SHALL BE C-905 (SDR-18).
- 10. PRIOR TO BACKFILLING OF ALL UNDERGROUND WATER LINES, INSTALL A CONTINUOUS #14 COPPER TRACER WIRE, LOCATED DIRECTLY OVER BURIED LINES AND ACCESSIBLE AT EACH VALVE STACK.
- 11. THE INSTALLATION OF ALL WATER LINES SHALL EXTEND ALONG THE ENTIRE LENGTH OF THE PROPERTY TO BE SERVED. WATER LINES THAT DEAD END SHALL EXTEND TO THE PROJECT LIMITS FOR FUTURE EXTENSIONS.



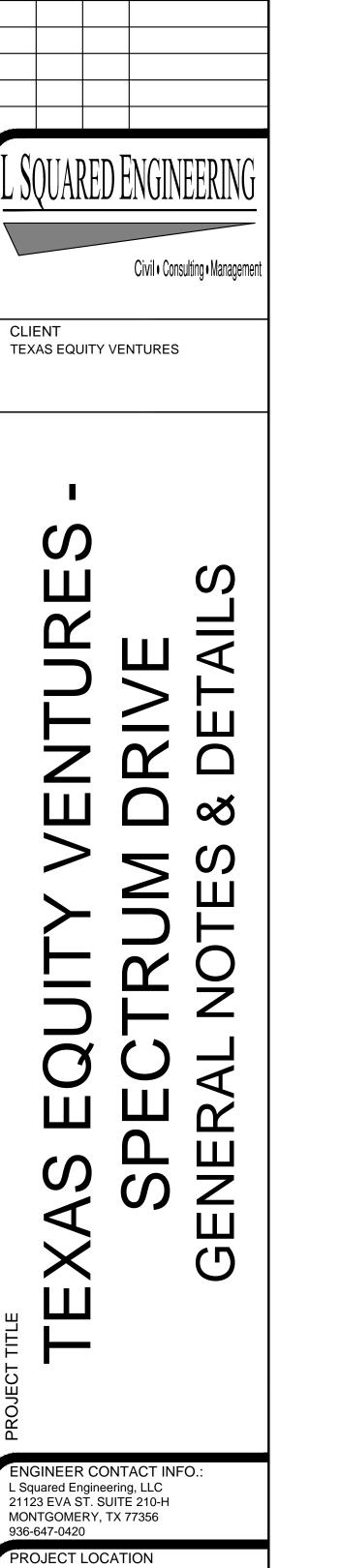
HORIZONTAL BLOCKING TABLE

Dimension 'X' to be a minimum of (1) foot, but is to be increased where necessary to provide bearing against undisturbed trench wall.

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PIPE	'x'	PL	UGS & TE	ES		90° BENDS			45° BENDS	;	22	2.50° BEND	)S	11	.25° BEND	s
SIZE	DIM.	,v,	MIN. AREA	MIN. VOL.	<b>,</b> B,	MIN. AREA	MIN. VOL.	'C'	MIN. AREA	MIN. VOL.	'D'	MIN. AREA	MIN. VOL.	Έ'	MIN. AREA	MIN. VOL.
4"	1'-0"	1'-0"	0.88	0.05	1'-0"	0.83	0.05	1'-0"	0.83	0.05	1'-0"	0.83	0.05	1'-0"	0.83	0.05
6"	1'-6"	1'-0"	1.06	0.06	1'-2"	1.50	0.09	1'-0"	0.83	0.05	1'–0"	0.83	0.05	1'-0"	0.83	0.05
8"	1'-6"	1'-3"	1.89	0.11	1'-6"	2.66	0.15	1'-3"	1.44	0.08	1'-0"	0.83	0.05	1'-0"	0.83	0.05
10"	1'-6"	1'–3"	2.95	0.17	2'-0"	4.17	0.24	1'-6"	2.26	0.13	1'–3"	1.15	0.07	1'-0"	0.83	0.05
12"	1'-6"	2'-0"	4.25	0.24	2'-3"	6.00	0.34	1'-9"	3.25	0.18	1'–3"	1.65	0.10	1'-0"	0.83	0.05
16"	2'-0"	2'-7"	7.34	0.56	3'-0"	10.65	0.79	2'-3"	5.76	0.43	1'–8"	2.94	0.22	1'-2"	1.48	0.11
18"	2'-0"	2'–11"	7.70	0.57	3'-5"	10.89	0.82	2'-6"	5.89	0.44	1'–10"	3.01	0.22	1'-5"	1.51	0.11
20"	2'-0"	3'-3"	7.86	0.59	3'-9"	11.12	0.84	2'-9"	6.01	0.45	2'-0"	3.07	0.23	1'-7"	1.54	0.12
24"	2'-6"	3'-8"	11.33	0.84	4'-3"	16.00	1.20	3'-2"	8.65	0.65	2'-6"	4.42	0.33	1'–10"	2.22	0.17

NOTE: Calculations in Minimum Area column are in square feeet. Calculations in Minimum Volume column are in cubic yards.

> HORIZONTAL BLOCKING FOR WATERLINE N.T.S.



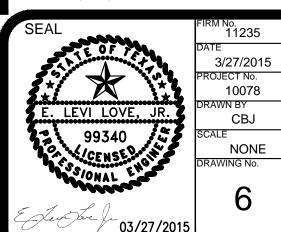
DRAWING ISSUE/REVISIONS

COMMENT

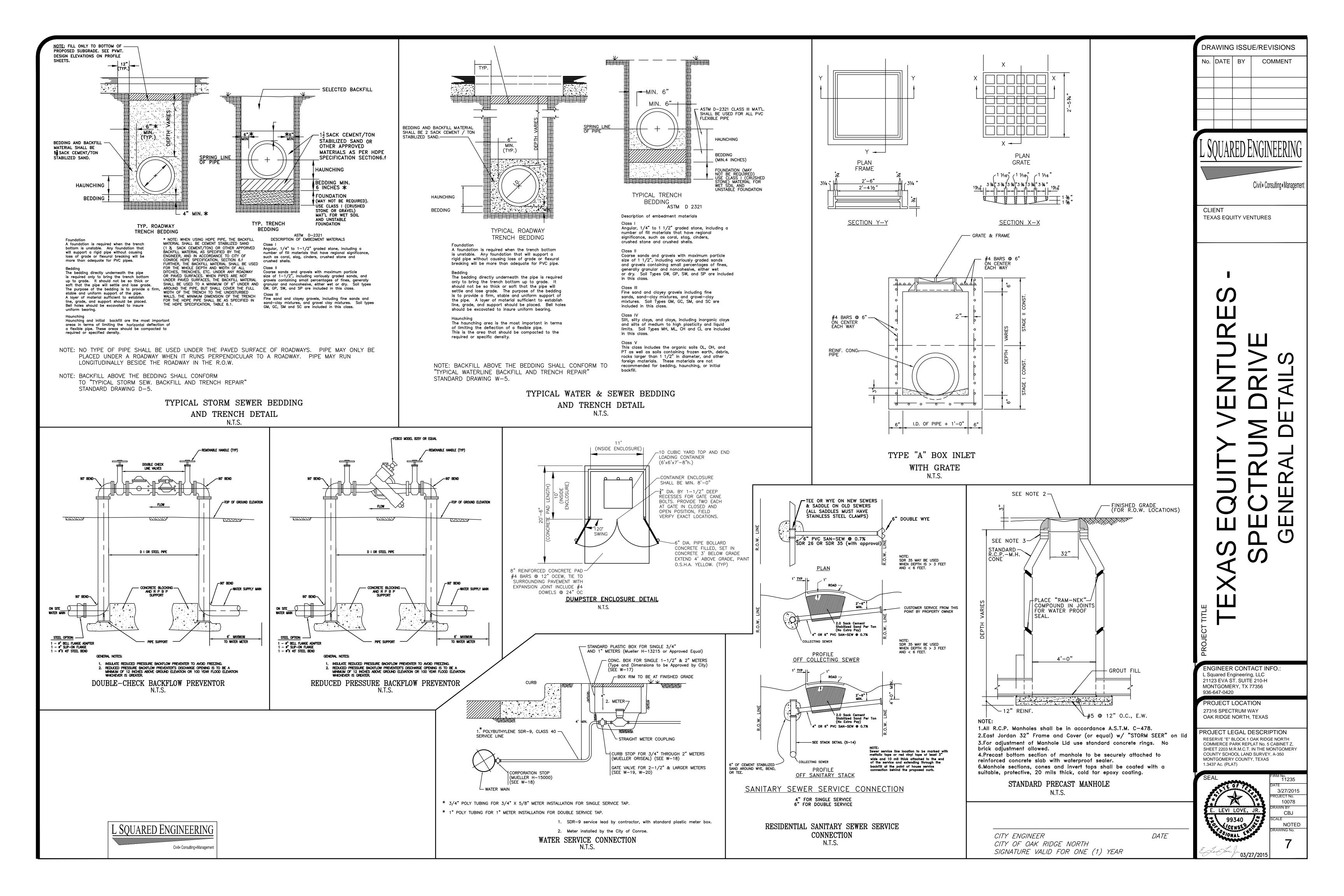
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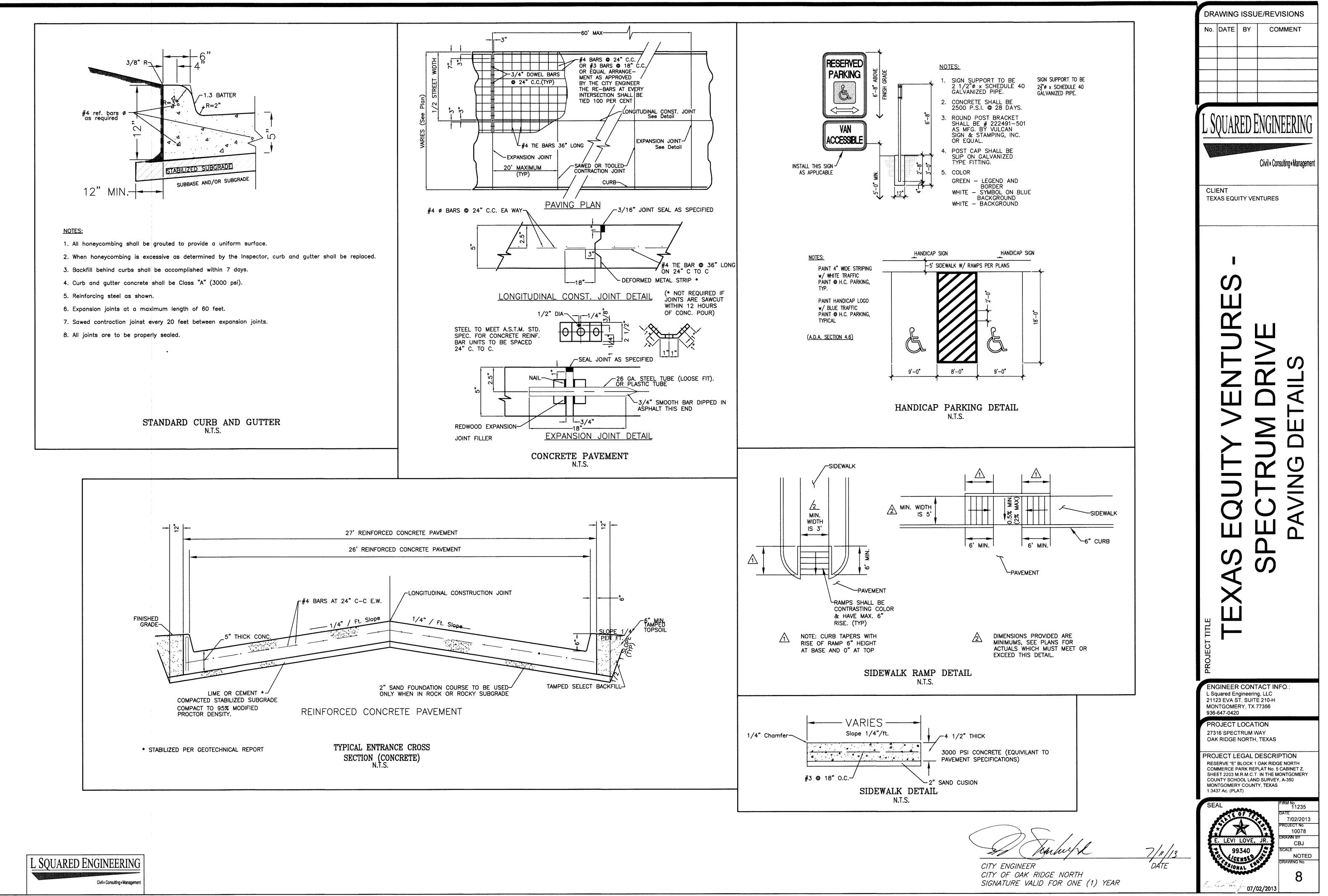
27316 SPECTRUM WAY OAK RIDGE NORTH, TEXAS

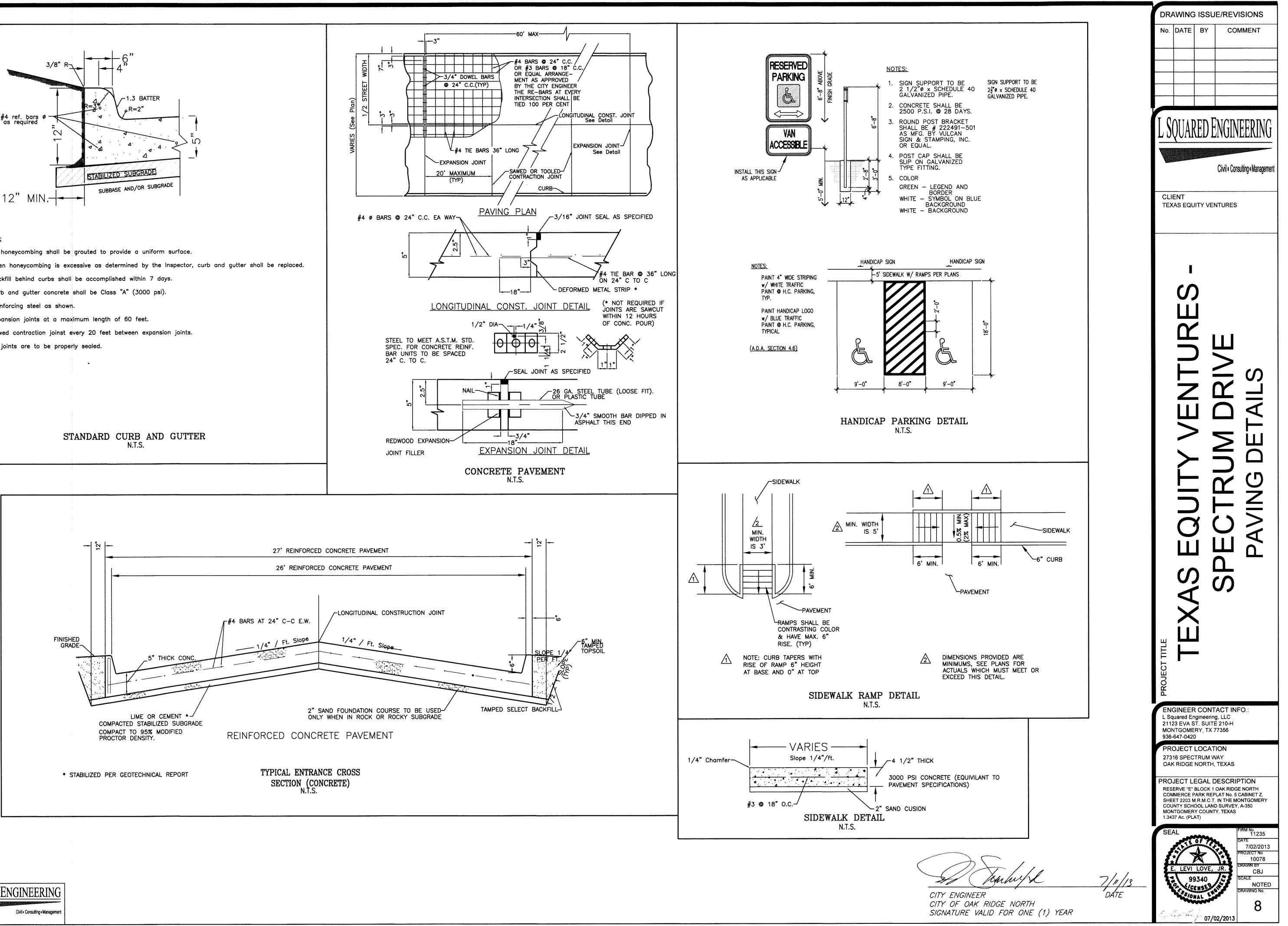
PROJECT LEGAL DESCRIPTION RESERVE "F" BLOCK 1 OAK RIDGE NORTH COMMERCE PARK REPLAT No. 5 CABINET Z. SHEET 2203 M.R.M.C.T. IN THE MONTGOMERY COUNTY SCHOOL LAND SURVEY, A-350 MONTGOMERY COUNTY, TEXAS 1.3437 Ac. (PLAT)

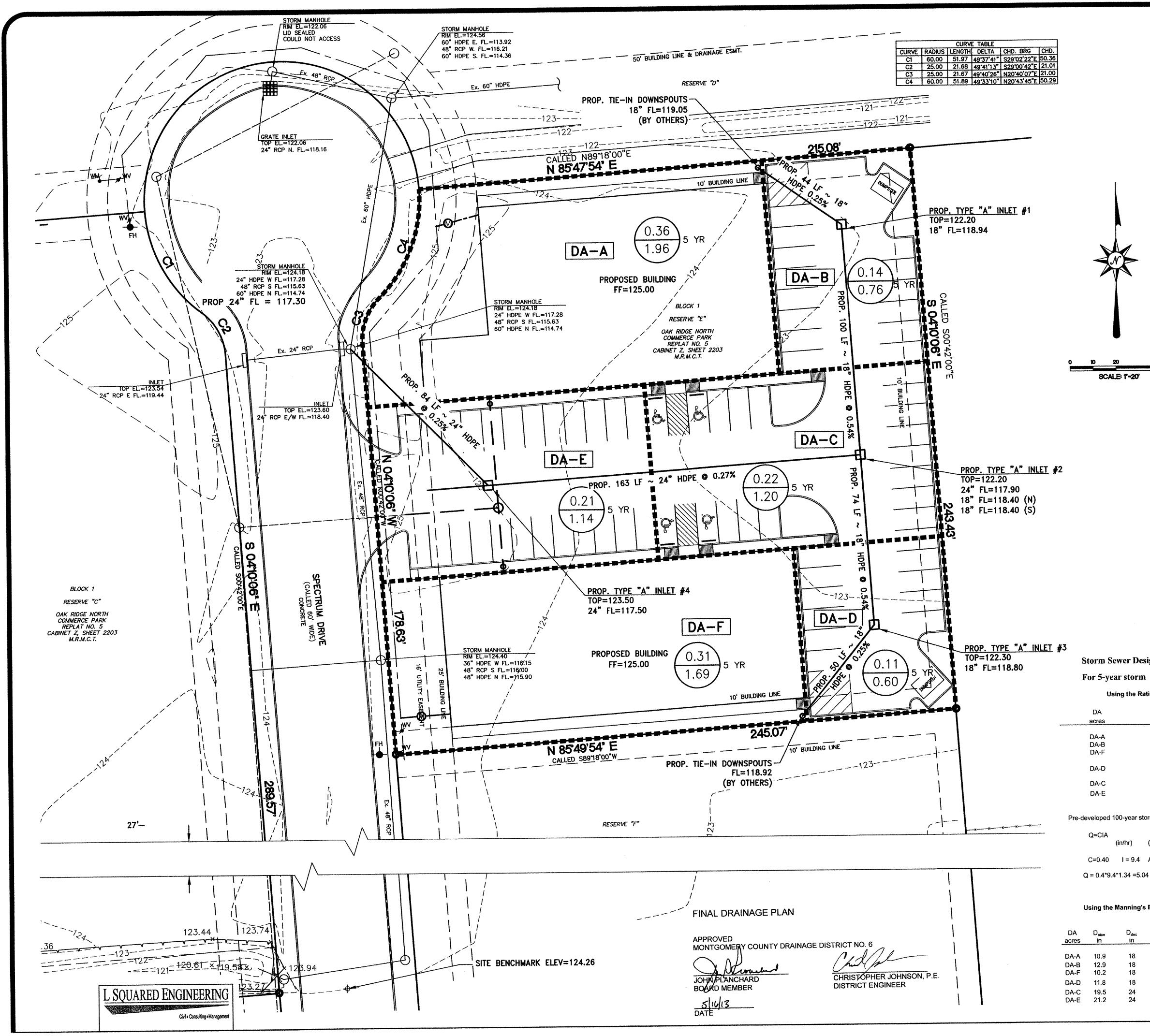


CITY ENGINEER CITY OF OAK RIDGE NORTH SIGNATURE VALID FOR ONE (1) YEAR DATE









		HMARK BENCH	MARK (	C1513			DRA	WING	ISSU	E/REVIS	BIONS
	ELEV	=118.2	7 (200	1 ADJ.)	SLEEV	VE	No.	DATE	BY	COM	MENT
	STAINLESS STEEL ROD W/O SLEEVE										
	ELEV	=124.2	6	TE NEAR	CENTE	ER OF					
		) AS SI									
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).36 ).50 ).81	0.85 0.85 0.85	1 1 1	10.0 10.0 10.0	6.40 6.40 6.40	1.96 0.76 1.69	1.96 2.72 1.69	PROJECT TITLE				
).92	0.85	1	10.0	6.40	0.60	2.29	PRC				
.14 .35	0.85 0.85	1 1	10.0 10.0	6.40 6.40	1.20 1.14	6.21 7.35	L 5 21	Squared 123 EVA	Engineer ST. SUI	ITACT IN ing, LLC TE 210-H	FO.:
		Post	-developed	1 100-year sto	orm event		93	6-647-04			
			Q=CIA	(in/hr) (	ac)				T LOCA E NORT	H, TEXAS	
			C=0.85	I = 9.4 A	<b>∖=1.34</b>		PR	OJECT	LEGAL	DESCRI	PTION
			Q = 0.85*	9.4*1.34 = 10	).71 cfs		CC SH CC	DMMERCI HEET 220 DUNTY SO	E PARK R B M.R.M.C CHOOL LA	1 OAK RIDG EPLAT No. 5 .T. IN THE M ND SURVEY NTY, TEXAS	CABINET Z. ONTGOMERY
ulatio	n the storm	Manning		acity				<u>-</u> ,			FIRM No. 11235
	V <sub>full</sub> ft/sec	Q <sub>fult</sub> Capacity cfs	Pipe Length ft	Adequate Pipe Size?				بمجموم	017		DATE 3/14/2013 PROJECT No.
	2.98011	5.27	44 100	YES			Į	t LEV		, JR. 4	DRAWN BY CBJ
	4.37985 2.98011 4.37985	7.74 5.27 7.74	100 50 74	YES YES			3		9340 CENSS		SCALE 1"=20' DRAWING No.
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SCALE: 1-20'

#### Storm Sewer Design for Reserve "E'

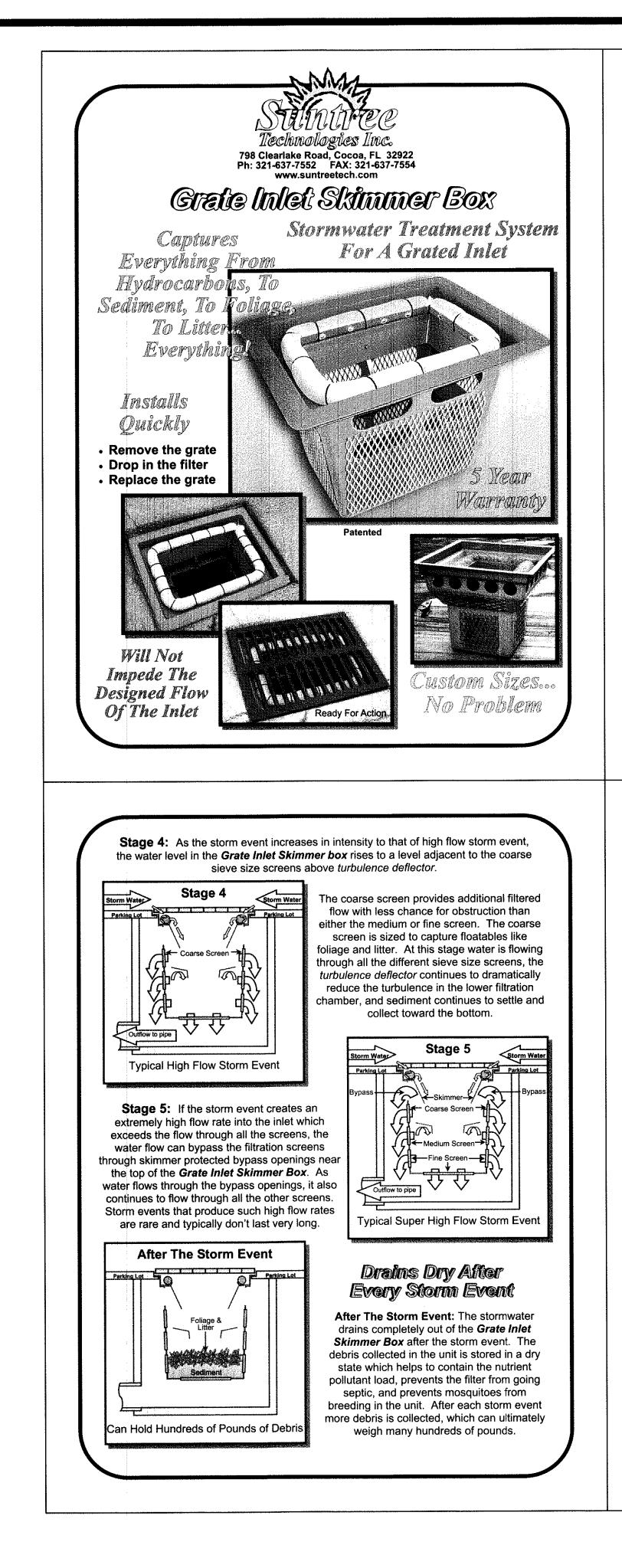
Using the Rational Equation to calcu

	Cumul.		Peaking			Cumul.				
Area	Area		Factor Tc		I	Q <sub>des</sub>	Q <sub>des</sub>			
 acres	acres	С	Cf	min	in/hr	cfs	cfs			
0.36	0.36	0.85	1	10.0	6.40	1.96	1.96			
0.14	0.50	0.85	1	10.0	6.40	0.76	2.72			
0.31	0.81	0.85	1	10.0	6.40	1.69	1.69			
0.11	0.92	0.85	1	10.0	6.40	0.60	2.29			
0.22	1.14	0.85	1	10.0	6.40	1.20	6.21			
0.21	1.35	0.85	1	10.0	6.40	1.14	7.35			

Pre-developed 100-year storm event (in/hr) (ac) C=0.40 I = 9.4 A = 1.34 Q = 0.4\*9.4\*1.34 =5.04 cfs

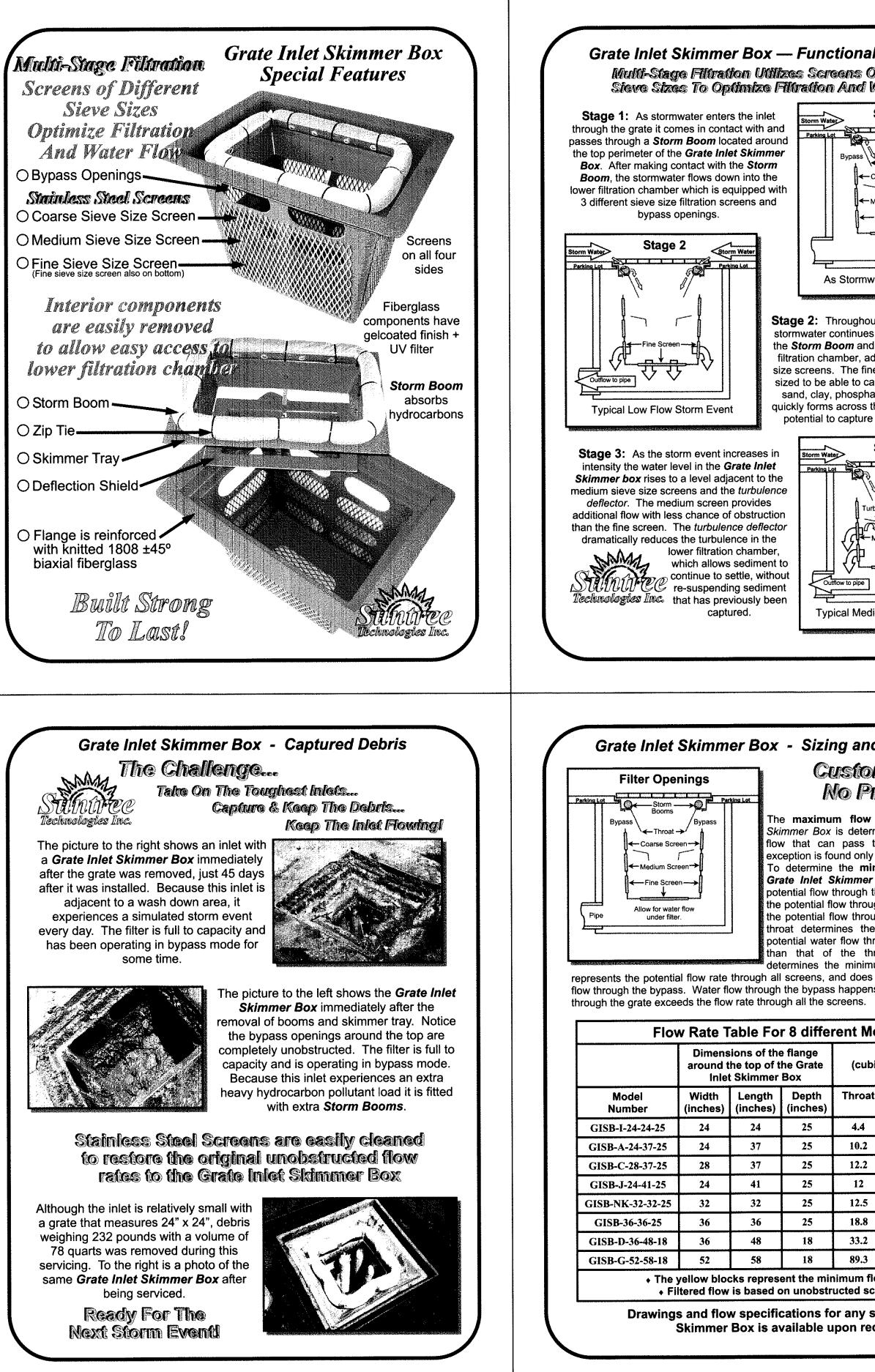
## Using the Manning's Equation to calculation

0	Pipe Slope	N/	Manning Q <sub>fult</sub>	Pipe Length	Adequate
 D <sub>des</sub> in	ft/ft	V <sub>full</sub> ft/sec	Capacity cfs	ft	Pipe Size?
18	0.002500	2.98011	5.27	44	YES
18	0.005400	4.37985	7.74	100	YES
18	0.002500	2.98011	5.27	50	YES
18	0.005400	4.37985	7.74	74	YES
24	0.002700	3.75178	11.79	163	YES
24	0.002500	3.61015	11.34	84	YES

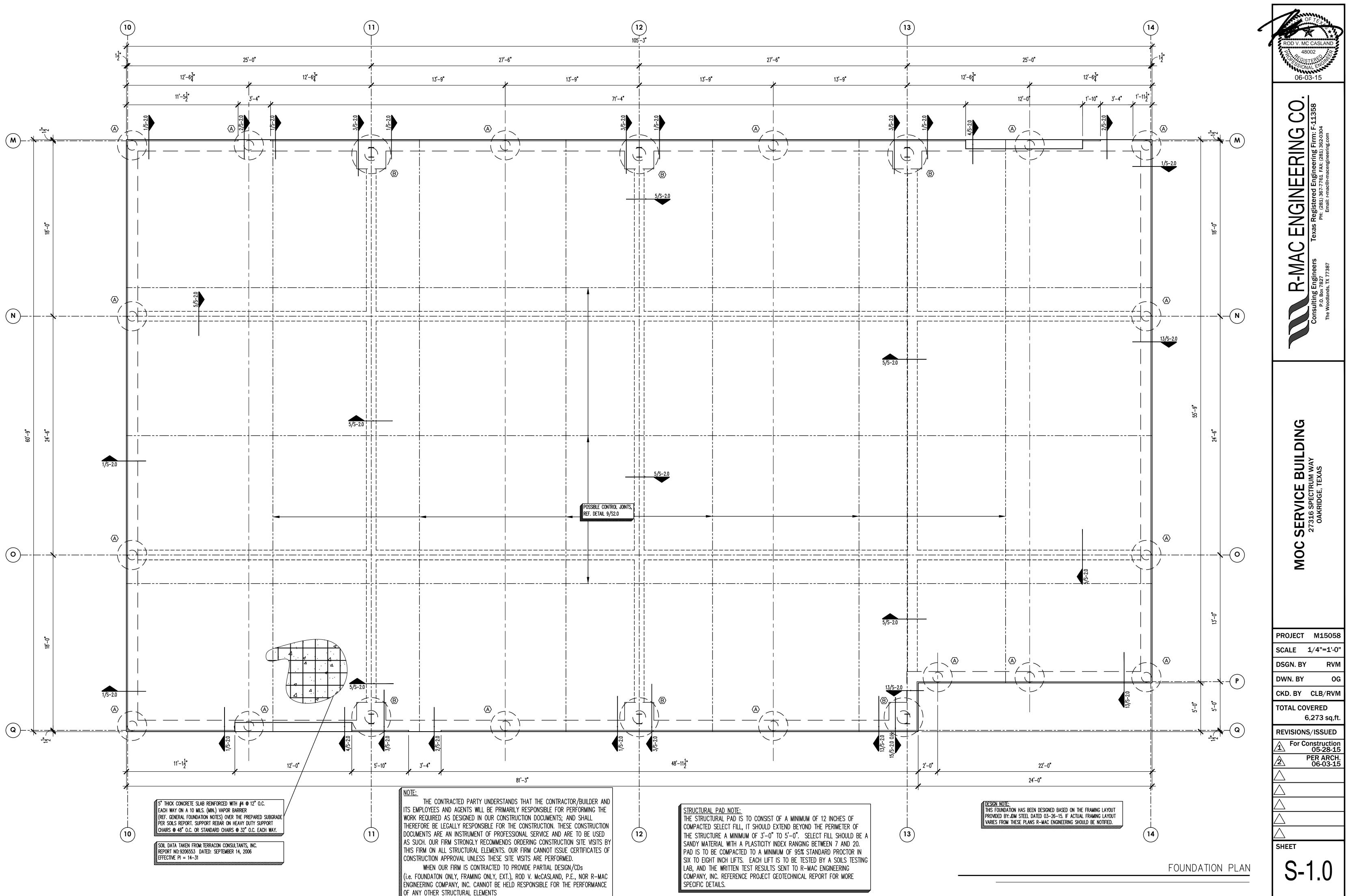


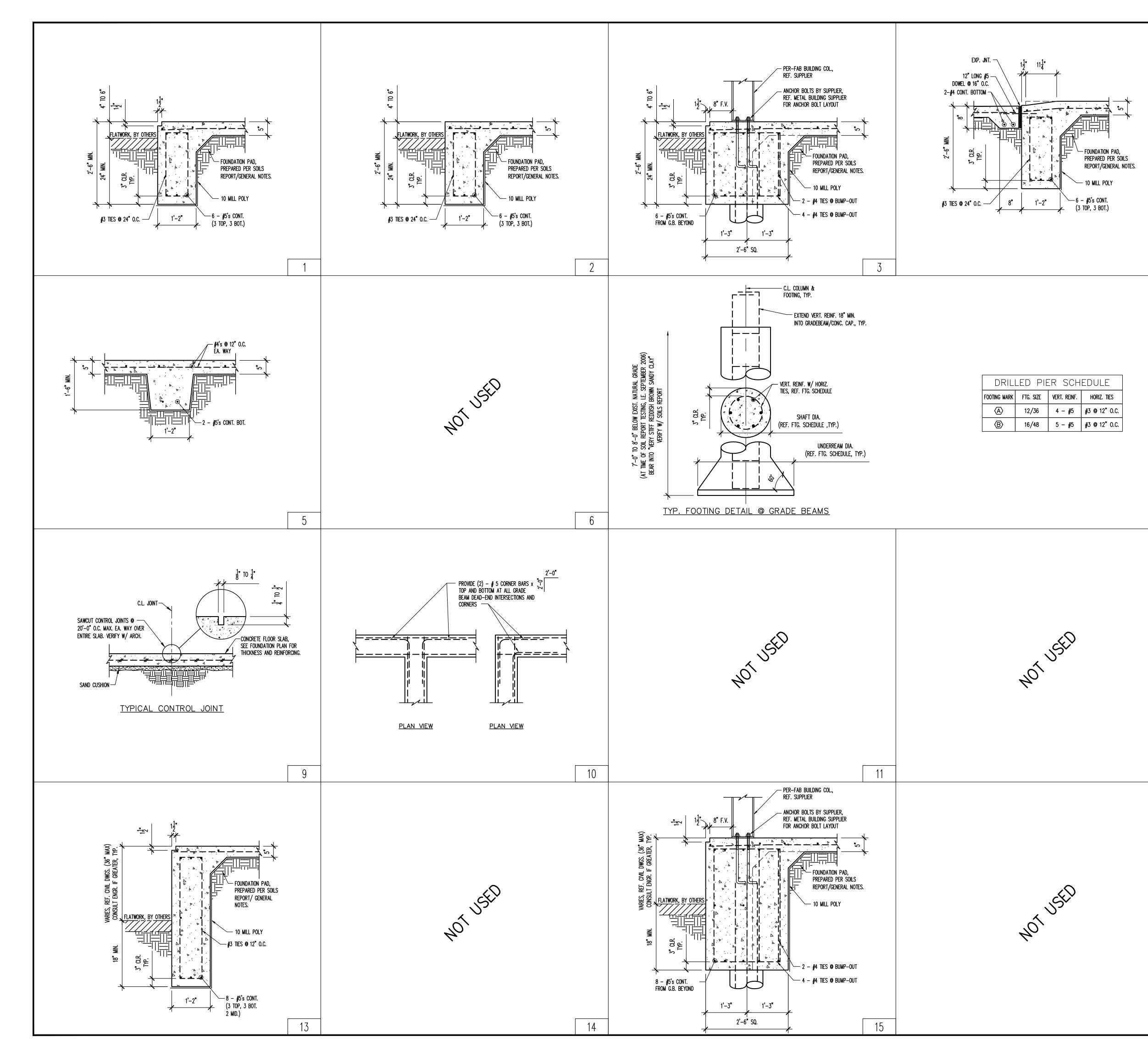
L SQUARED ENGINEERING

Civil . Consulting . Management



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<text></text>	Fine Screen	
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	water Enters The Inlet	
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Bigs 3       Image: State	nates, etc. A sand filter the bottom which has the	
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And Flow Rates         Mit States		
Implementation       Implementation         Implementation       Implement		<b>し し ろ</b>
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wind Stress Problems         winds of a Grate Inlet Browghe by bases in the symph methods itses than through the bypass in the program flow. Filtered Flow is not include the potential bio feet per second)         at Filtered Flow is not include the potential bio feet per second)         at Filtered Flow is not include the potential bio feet per second)         at Filtered Flow is not include the potential bio feet per second)         at Filtered Flow is not include the potential bio feet per second)         at Filtered Flow is not include the potential bio feet per second)         at States         bio feet per second)         at States         bio feet per second)         bio feet per second per		
wind Stress Problems         winds of a Grate Inlet Browghe by bases in the symph methods itses than through the bypass in the program flow. Filtered Flow is not include the potential bio feet per second)         at Filtered Flow is not include the potential bio feet per second)         at Filtered Flow is not include the potential bio feet per second)         at Filtered Flow is not include the potential bio feet per second)         at Filtered Flow is not include the potential bio feet per second)         at Filtered Flow is not include the potential bio feet per second)         at States         bio feet per second)         at States         bio feet per second)         bio feet per second per		Т С М П
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through the threat, the inimum flow rate of a r r Box, consider only the the thread and bycass. If up the threat is less than up the bypass, then the the minum flow. Filtered Flow is not include the potential nes only when the flow rate         Addels         Flow         Flow         134         123.4         123.4         13.3         13.4         123.4         123.4         123.4         123.4         123.4         123.4         123.4         123.4         123.4         123.4         123.4         13.4         123.4	v rate of a Grate Inlet	
pr Box consider only the type the throat is less than yough the bypass. If yough the bypass, then the eminimum flow. If the hrough the bypass is less throat, then the bypass throat, the bypass throat, then the bypass throat, the	through the throat, the ly in very large units.	
Induct, there the Dypass is not include the potential ins only when the flow rate         Addels         Flow Rate blic feet per second)         at       Filtered Bypass Flow Rate blic feet per second)         at       Filtered Flow Flow Flow Flow Flow Flow Flow Flow	er Box, consider only the throat and bypass. If	
Indust, their the bypass is not include the potential rea only when the flow rate         Addels         Flow Rate blic feet per second)         at       Filtered         144.9       6.7         121.1       8.7         194.7.4       7.4         194.7.4       7.4         194.7.4       7.4         122.1       8.7         194.7.4       7.4         123.4       10.3         123.4       13.4         126.3       13.3         13.4       1.4.7         194.7.4       7.4         123.4       1.3.4         126.3       13.3         13.4       2.5         flow rates. screens.       Size Grate Inlet equest.	ough the bypass, then the ne minimum flow. If the	
Insconty when the flow rate         Addels         Flow Rate         bic feet per second)         at       Filtered         14.9       6.7         12.1.1       8.7         13.4       7.4         19.4       7.4         19.4       7.4         19.4       7.4         19.4       7.4         19.4       7.4         19.4       7.4         19.5       10.1         25.5       13.3         10.1       25.6         100 rates.       screens.         screens.       screens.         size Grate Inlet       country school LAD SURPLY .430         0.017       200 LAD SURPLY .430         1.437 Ac. (FAC) LAD SURPLY .430       Montrogenery .430         Montrogenery .430       Montrogenery .430         Montrogenery .430       Montrogenery .430         Montrogenery .430       Montrogenery .430         Montrogenery .430       Montrogenery .430         Montrog	throat, then the bypass mum flow. <b>Filtered Flow</b>	
Flow Rate bic feet per second)       Image: Second se		
21.1       8.7         19.4       7.4         24.6       10         19.1       10.3         23.4       13.4         26.3       13.3         40.1       25         flow rates.       Screens.         size Grate Inlet equest.       PROJECT LEGAL DESCRIPTION RESERVE THE BLOCK 10 AK RIDGE NORTH, TEXAS         SEE SHEET D-2	Nodels	
21.1       8.7         19.4       7.4         24.6       10         19.1       10.3         12.3.4       13.4         26.3       13.3         14.1       25         flow rates.screens.       Screens.         size Grate Inlet equest.       PROJECT LEGAL DESCRIPTION RESERVET TO LOCATION 27316 SPECTRUM WAY OAK RIDGE NORTH, TEXAS         PROJECT LEGAL DESCRIPTION RESERVET TO LOCATION 27316 SPECTRUM WAY OAK RIDGE NORTH, TEXAS         screens.       Screens.         screens.       Screens. <td></td> <td></td>		
21.1       8.7         19.4       7.4         24.6       10         19.1       10.3         12.3.4       13.4         26.3       13.3         40.1       25         flow rates. screens.       SEE Grate Inlet equest.    SEE SHEET D-2    SEE SHEET D-2    Example 1    Example 2    Example 2    Example 2 E		DJECT
19.4       7.4         19.4       7.4         19.1       10.3         19.1       10.3         123.4       13.4         26.3       13.3         40.1       25         flow rates.       PROJECT LOCATION         size Grate Inlet       PROJECT LOCATION         equest.       PROJECT LOCATION         27316 SPECTRUM WAY       OAK RIDGE NORTH, TEXAS         MONTGOMERY COUNTY, TX 7366       Some Construction         size Grate Inlet       PROJECT LEGAL DESCRIPTION         equest.       PROJECT LOCARTION         SEE SHEET D-2       SEE SHEET D-2	14.9 6.7	PRK
24.0       10         19.1       10.3         23.4       13.4         26.3       13.3         40.1       25         flow rates. screens.       Screens.         size Grate Inlet equest.       PROJECT LEGAL DESCRIPTION RESERVE TE BLOCK 1 OAK RIDGE NORTH, TEXAS         PROJECT LEGAL DESCRIPTION RESERVE TE BLOCK 1 OAK RIDGE NORTH, TEXAS         Size Grate Inlet equest.       PROJECT LEGAL DESCRIPTION RESERVE TE BLOCK 1 OAK RIDGE NORTH, TEXAS         SEE SHEET D-2       PROJECT LEGAL DESCRIPTION RESERVE TE BLOCK 1 OAK RIDGE NORTH, TEXAS	19.4 7.4	L Squared Engineering, LLC
26.3       13.3         40.1       25         flow rates.       screens.         size Grate Inlet equest.       PROJECT LEGAL DESCRIPTION         RESERVE "E" BLOCK 1 OAK RIDGE NORTH COMMERCE PARK REPLAT No. 5 CABINET Z. SHEET 2203 M R.M.C.T. IN THE MONTGOMERY COUNTY SCHOOL LAND SURVEY, A.350 MONTGOMERY COUNTY, TEXAS 1.3437 Ac. (PLAT)         SEE SHEET D-2	5 19.1 10.3	MONTGOMERY, TX 77356 936-647-0420
40.1       25         flow rates.       Screens.         size Grate Inlet       RESERVE "E" BLOCK 10AK RIDGE NORTH         commerce park RepLat No 5 CABINET Z.         size Grate Inlet         equest.    SEE SHEET D-2    PROJECT LEGAL DESCRIPTION          RESERVE "E" BLOCK 10AK RIDGE NORTH         Commerce park RepLat No 5 CABINET Z.         SHEET 2203 M.R.M.C.T. IN THE MONTGOMERY         COUNTY SCHOOL LAND SURVEY, A-350         MONTGOMERY COUNTY, TEXAS         1.3437 Ac. (PLAT)    SEE SHEET D-2    SEE SHEET D-2		27316 SPECTRUM WAY
Size Grate Inlet equest. SEE SHEET D-2 COMMERCE PARK REPLAT No. 5 CABINET Z, SHEET 2203 M.R.M.C.T. IN THE MONTGOMERY COUNTY SCHOOL LAND SURVEY, A-350 MONTGOMERY COUNTY, TEXAS 13437 Ac. (PLAT) SEAL FIRM NO DATE 7 PR 1 0415	flow rates.	PROJECT LEGAL DESCRIPTION
equest. SEE SHEET D-2 BATE DATE 99340 CENSION EN		COMMERCE PARK REPLAT No. 5 CABINET Z, SHEET 2203 M.R.M.C.T. IN THE MONTGOMERY
SEE SHEET D-2	equest.	MONTGOMERY COUNTY, TEXAS 1.3437 Ac. (PLAT)
SEE SHEET D-2		DATE
SEE SHEET D-2		
DD6 APPROVAL BY: DATE	DD6 APPROVAL BY	 SJONAL ENGLA





<u>GENERAL</u>	FOUNDATION	NOTES

## FOUNDATION

THE FOUNDATION FOR THE STRUCTURE IS DESIGNED USING THE FOLLOWING SOIL BEARING PRESSURES AT A DEPTH OF 7'-0" TO 8'-0" WHICH HAS BEEN SUPPLIED BY THE GEOTECHNICAL ENGINEER: TERRACON CONSULTANTS, INC. REPORT NO.: 9206553, DATED: SEPTEMBER 14, 2006 (DEPTH IS FROM EXISTING NATURAL GRADE)

DEAD LOAD PLUS SUSTAINED LIVÉ LOAD ------3500-4200 PSF TOTAL LOAD ----- 5000-5500 PSF

3.

## VAPOR RETARDER/BARRIER NOTES

1. ACI 302.1R-96, GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION (ACI COMMITTEE 302) RECOMMENDS THAT A VAPOR RETARDER/BARRIER WITH: PERMEANCE OF LESS THAN 0.3 US PERMS (ASTM E 96, "STANDARD TEST METHODS FOR WATER VAPOR TRANSMISSION OF MATERIALS"), AND

> THICKNESS NOT LESS THAN 10 MILS BE PLACED UNDER THE CONCRETE FLOOR SLAB ON GROUND TO REDUCE THE TRANSMISSION OF WATER VAPOR FROM THE SUPPORTING SOIL THROUGH THE CONCRETE SLAB AND TO FUNCTION AS A SLIP SHEET TO REDUCE SUBGRADE DRAG FRICTION.

2. WE RECOMMEND THAT A 10-MIL POLYETHYLENE SHEET OR STEGO INDUSTRIES 10 MIL "STEGO WRAP" BE USED AS THE MOISTURE RETARDER/BARRIER. LOCAL PRECTICE IS TO PLACE THE CONCRETE FLOOR DIRECTLY ON THE VAPOR RETARDER/BARRER. THE VAPOR

RETARDER / BARRIER SHOULD BE INSTALLED ACCORDING TO ASTM E 1643 ("STANDARD PRACTICE FOR INSTALLATION OF WATER VAPOR RETARDERS USED IN CONTACT WITH EARTH AR GRANULAR FILL UNDER CONCRETE SLABS.

## CONCRETE NOTES

1. CONCRETE IN THE FOLLOWING AREAS SHALL HAVE NORMAL-WEIGHT AGGREGATES CONFORMING TO ASTM C33, TYPE 1 PORTLAND CEMENT, AND THE FOLLOWING DESIGNATED MINIMUM COMPRESSIVE STRENGTH (F'C) IN 28 DAYS. DRILLED FOOTINGS -

- GRADE BEAMS -SLAB ON GRADE · --3000 PSI GROUT UNDER BASE PLATES SHALL BE A NON-SHRINKABLE TYPE AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH 2.
- OF 5000 PSI. 3. REINFORCING BARS FOR CONCRETE SHALL CONFORM TO ASTM A615, GRADE 60. NO. 3 BARS MAY CONFORM TO ASTM A614, GRADE 40 EXCEPT AS NOTED.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. FABRIC IS TO BE LAPPED ONE MESH MINIMUM AT SPLICES.
- AT ALL SLAB ON GRADE CONSTRUCTION JOINTS, PROVIDE NO. 3 DOWELS X 3'-0" AT 36 INCHES ON CENTER. REINFORCEMENT DESIGNATED AS "CONTINUOUS" SHALL LAP 36 BAR DIAMETERS AT SPLICES U.O.N.
- PROVIDE 1 NO. 6 CORNER BAR TOP AND BOTTOM AT THE EXTERIOR FACE OF ALL GRADE BEAMS. CORNER BARS SHALL BE 4'-0" LONG, BENT AT THE MIDDLE OF EACH BAR.
- 8. REINFORCING BARS MAY NOT BE WELDED UNLESS SPECIFICALLY CALLED FOR ON THE DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER. DETAILING OF CONCRETE REINFORCEMENT AND ACCESSORIES SHALL CONFORM TO THE RECOMMENDATIONS OF THE 9. AMERICAN CONCRETE INSTITUTE. LIKEWISE, MIXING, TRANSPORTING, PLACING, AND CURING OF ALL CONCRETE SHALL
- CONFORM TO THE RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE. CONCRETE COVER OF REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF A.C.I. 318 SECTION 7.7. 10.
- HORIZONTAL JOINTS WILL NOT BE PERMITTED IN CONCRETE CONSTRUCTION EXCEPT AS PROVIDED ON THE STRUCTURAL DRAWINGS. ALL CONSTRUCTION JOINTS SHALL BE MADE VERTICAL BULKHEADS AT THE CENTER OF SPANS OR AT LOCATIONS APPROVED BY THE STRUCTURAL ENGINEER.



ROD V. MC CASLAND

48002

PROJECT	M15058
SCALE	N.T.S.
DSGN. BY	RVM
DWN. BY	OG
CKD. BY	CLB/RVM
TOTAL CO' E	VERED 5,273 sq,ft.
REVISION	S/ISSUED
$frac{1}{1}$ For Co	onstruction 05-28-15
2	PER ARCH. 06-03-15
$\Delta$	
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SHEET	
S-2	2.0

#### BUILDER / CONTRACTOR RESPONSIBILITIES

IT IS THE RESPONSIBILITY OF THE BUILDER/CONTRACTOR TO INSURE THAT ALL PROJECT PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE REQUIREMENTS OF ANY GOVERNING BUILDING AUTHORITIES. THE SUPPLYING OF SEALED ENGINEERING DATA AND DRAWINGS FOR THE METAL BUILDING SYSTEM DOES NOT IMPLY OR CONSTITUTE AN AGREEMENT THAT THE BUILDING COMPANY OR ITS DESIGN ENGINEER IS ACTING AS THE ENGINEER OF RECORD OR DESIGN PROFESSIONAL FOR A CONSTRUCTION PROJECT.

THE CONTRACTOR MUST SECURE ALL REQUIRED APPROVALS AND PERMITS FROM THE APPROPRIATE AGENCY AS REQUIRED.

APPROVAL OF BUILDING'S DRAWINGS AND CALCULATIONS INDICATE THAT JDM STEEL CORRECTLY INTERPRETED AND APPLIED THE REQUIREMENTS OF THE CONTRACT DRAWINGS AND SPECIFICATIONS.

(SECT. 4.2.1 AISC CODE OF STANDARD PRACTICES, 9TH ED.) WHERE DISCREPANCIES EXIST BETWEEN THE STRUCTURAL STEEL PLANS AND THE PLANS FOR OTHER TRADES, THE STRUCTURAL STEEL PLANS SHALL GOVERN. (SECT. 3.3 AISC CODE OF STANDARD PRACTICE 9TH ED.) DESIGN CONSIDERATIONS OF ANY MATERIALS IN THE STRUCTURE WHICH ARE NOT FURNISHED BY THE BUILDING COMPANY ARE THE RESPONSIBILITY OF THE CONTRACTORS AND ENGINEERS OTHER THAN

THE BUILDING COMPANY'S ENGINEERS UNLESS SPECIFICALLY INDICATED. THE CONTRACTOR IS RESPONSIBLE FOR ALL ERECTION OF STEEL AND ASSOCIATED WORK IN COMPLIANCE WITH

BUILDING COMPANY'S "FOR CONSTRUCTION" DRAWINGS.

PRODUCTS SHIPPED TO BUILDER OR HIS CUSTOMER SHALL BE INSPECTED BY BUILDER IMMEDIATELY UPON ARRIVAL. CLAIMS FOR SHORTAGES OR DEFECTIVE MATERIAL IF NOT PACKAGED MUST BE MAILED TO JDM STEEL WRITING WITHIN FIVE (5) DAYS AFTER RECEIPT OF THE SHIPMENT. HOWEVER, IF A DEFECT IS OF SUCH A NATURE THAT REASONABLE VISUAL INSPECTION WOULD FAIL TO DISCLOSE IT, THEN THE CLAIM MUST BE MADE WITHIN FIVE (5) DAYS AFTER THE BUILDER LEARNS OF THE DEFECT. BLDG, COMPANY WILL NOT BE LIABLE FOR ANY DEFECT UNLESS CLAIM IS MADE WITHIN ONE (1) YEAR AFTER DATE OF THE ORIGINAL SHIPMENT BY STEEL SUPPORT GROUP, INC. TO BUILDER OR HIS CUSTOMER. JDM STEEL . WILL BE GIVEN A REASONABLE OPPORTUNITY TO INSPECT DEFECTIVE MATERIALS UPON RECEIPT OF CLAIM BY BUILDER.

IF A DEFECT IS OF SUCH NATURE THAT IT CAN BE REMEDIED BY A FIELD OPERATION AT THE JOB SITE WITHOUT

IF A DEFECT IS OF SUCH NATURE THAT IT CAN BE REMEDIED BY A FIELD OPERATION AT THE JOB STIE WITHOUT THE NECESSITY OF RETURNING THE MATERIAL TO BLDG. COMPANY, THEN UPON WRITTEN AUTHORIZATION OF THE BUILDER MAY REPAIR OR CAUSE THE MATERIAL TO BE REPAIRED AND BUILDING COMPANY WILL REIMBURSE THE BUILDER FOR THE COST OF THE REPAIR IN ACCORDANCE WITH THE WRITTEN AUTHORIZATION. ALL BRACING AS SHOWN AND PROVIDED BY JOM STEEL. FOR THIS BUILDING IS REQUIRED AND SHALL BE INSTALLED BY THE ERECTOR AS A PERMANENT PART OF THE STRUCTURE.

TEMPORARY SUPPORTS, SUCH AS TEMPORARY GUYS, BRACES, FALSE WORK, CRIBBING OR OTHER ELEMENTS REQUIRED FOR THE ERECTION OPERATION WILL BE DETERMINED AND FURNISHED AND INSTALLED BY THE ERECTOR. THESE TEMPORARY SUPPORTS WILL SECURE THE STEEL FRAMING, OR ANY PARTLY ASSEMBLED STEEL FRAMING, AGAINST LOADS COMPARABLE IN INTENSITY TO THOSE FOR WHICH THE STRUCTURE WAS DESIGNED, RESULTING FROM WIND. SEISMIC FORCES AND ERECTION OPERATIONS, BUT NOT THE LOADS RESULTING FROM THE PERFORMANCE OF WORK BY OR THE ACTS OF OTHERS, NOR SUCH UNPREDICTABLE LOADS AS THOSE DUE TO TORNADO, EXPLOSION OR COLLISION. (SECT. 7.9.1 AISC CODE OF STANDARD PRACTICE, 9TH ED.)

DESIGN OF GUTTER AND DOWNSPOUT IS A FUNCTION OF THE RAINFALL INTENSITY AND AREA TO BE DRAINED. DESIGN PARAMETERS UTILIZED ARE IN ACCORDANCE WITH THE 1986 LOW RISE BUILDING SYSTEMS MANUAL AND/OR THE 9TH EDITION OF THE ARCHITECTURAL GRAPHIC STANDARDS, AS APPLICABLE. PROPER OWNER MAINTENANCE DICTATES THAT THE DRAINAGE SYSTEM BE KEPT FREE AND CLEAR OF DEBRIS AND/OR ICE AT ALL TIMES TO ENSURE PROPER FUNCTION OF THE GUTTER AND DOWNSPOUT. IN THOSE CASES WHERE THE OWNER/TENANT OF A PROPERTY IS UNWILLING OR UNABLE TO PROVIDE PROPER MAINTENANCE, ELIMINATION OF GUTTER SHOULD BE CONSIDERED AS AN ALTERNATIVE.

#### PRODUCT CERTIFICATIONS

M.B.C.I. BDG. COMPONENTS CO. IS A MEMBER OF THE METAL BUILDING MANUFACTURERS ASSOCIATION. FABRICATION AND PRODUCTS ARE COVERED BY ONE OR MORE OF THE FOLLOWING CERTIFICATIONS:

1. APPROVED FABRICATOR OF PREFABRICATED BUILDINGS AND COMPONENTS. REFERENCE ICBO REPORT NO. FA-337

2. SBCCI COMPLIANCE REPORT NO. 9461A

3. AISC METAL BUILDING CERTIFICATION PROGRAM

4. CITY OF HOUSTON APPROVED FABRICATOR

5. TEXAS DEPT. OF INSURANCE PRODUCT EVALUATION

THE STRUCTURE UNDER THIS CONTRACT STIPULATED IN THE CONTRACT AND SHO REMOVAL OF ANY COMPONENT PARTS, OF DONE UNDER THE ADVICE AND DIRECTION JDM STEEL WILL ASSUME NO RESPONSI

THIS METAL BUILDING IS DESIGNED WITH ON PERTINENT PROCEDURES AND RECOM

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- 2. AMERICAN IRON AND STEEL INSTIT
- 3. AMERICAN WELDING SOCIETY: "ST
- 4. METAL BUILDING MANUFACTURER'S

5. INTERNATIONAL CONFERENCE OF I

6. SOUTHERN BUILDING CODE CONGR

7. BUILDING OFFICIAL AND CODE ADM

8. NATIONAL BUILDING CODE OF CAN

MATERIAL PROPERTIES OF STEEL PL STRUCTURAL EXCLUSIVE OF COLD-FORI THICKNESS OF ONE INCH OR LESS AND 55,000 psi. FLANGES GREATER THAN POINT OF 50,000 psi. WEB MATERIAL MATERIAL PROPERTIES OF PIPE SEC

OF 35,000 psi. MATERIAL PROPERTIES OF HOT ROLL

WITH A MINIMUM YIELD POINT OF 50.00 MATERIAL PROPERTIES OF COLD FOR

GRADE 55 MODIFIED WITH A MINIMUM MATERIAL PROPERTIES OF ROOF/WAL

MINIMUM YIELD POINTS OF 50,000 psi MATERIAL IS 55% ALUMINUM-ZINC ALL CABLE UTILIZED FOR BRACING CONF

ROD AND ANGLE UTILIZED FOR BRAC

STRUCTURAL JOINTS WITH A.S.T.M. A ASSEMBLED AND THE FASTENERS TIGH SPECIFICATION FOR STRUCTURAL JOINT

NOTED. ALL JOINTS WILL BE ASSEMBLE ALL STEEL MEMBERS EXCEPT BOLTS, CORROSION INHIBITIVE PRIMER, MEETING

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M.B.C.I. COMPONENTS BUILDING COMP GREATER THAN 36,000 PSI BY MEANS SECONDARY MEMBERS WITH A YIELD P MEANS OF A STICKER NEAR THE EREC

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IT IS STRONGLY RECOMMENDED THAT S PRIORITY OF ANY JOB SITE.

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EMERGENCY PROCEDURES SHOULD BE KN

DAILY MEETINGS HIGHLIGHTING SAFETY SOLE SHOES FOR ROOF WORK, PROPER E ARE RECOMMENDED

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APPROVAL NOTES

THE FOLLOWING CONDITIONS APPLY IN THE EVENT THAT THESE DRAWINGS ARE USED AS APPROVAL DRAWINGS: A) IT IS IMPERATIVE THAT ANY CHANGES TO THESE DRAWINGS:

1) BE MADE IN CONTRASTING INK.

3) HAVE ALL INSTANCES OF CHANGE CLEARLY INDICATED.

2) BE LEGIBLE AND UNAMBIGUOUS.

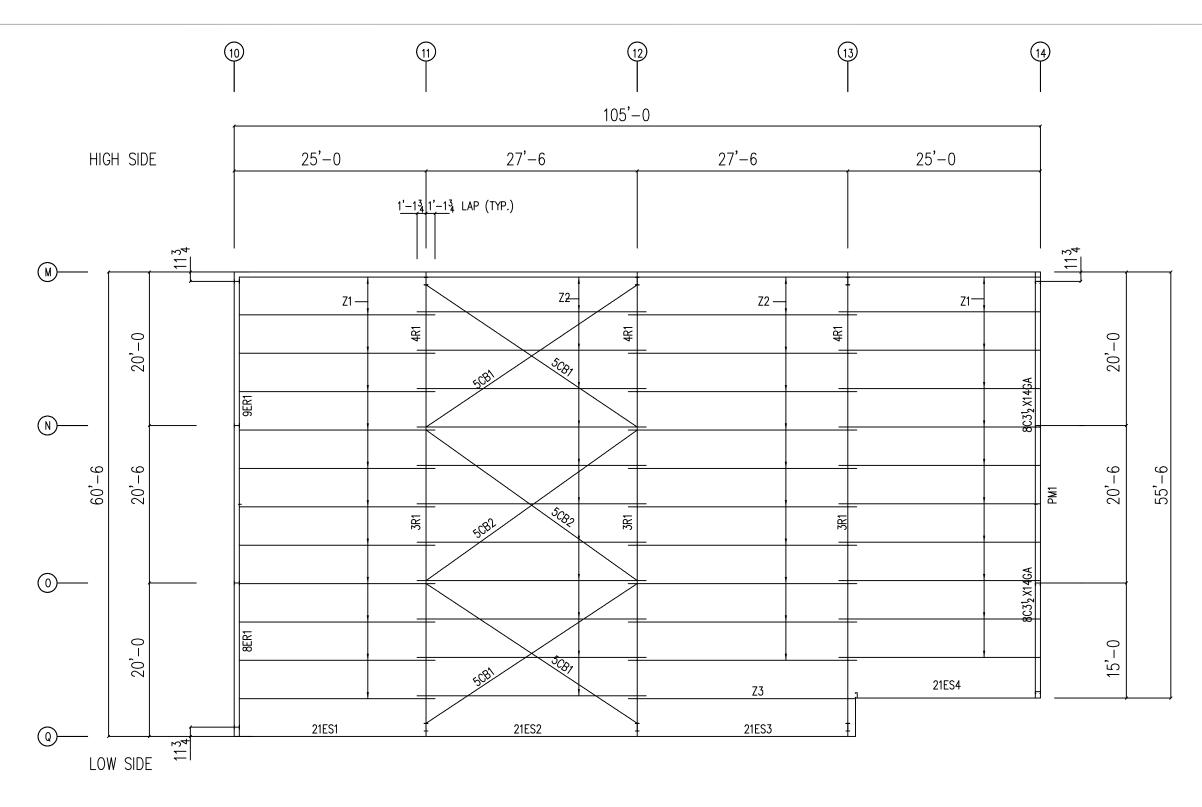
B) DATED SIGNATURE IS REQUIRED ON ALL PAGES.

C) MANUFACTURER RESERVES THE RIGHT TO RE-SUBMIT DRAWINGS WITH EXTENSIVE OR COMPLEX CHANGES REQUIRED AVOID MISFABRICATION. THIS MAY IMPACT THE DELIVERY SCHEDULE.

- D) APPROVAL OF THESE DRAWINGS INDICATES CONCLUSIVELY THAT JDM STEEL . HAS CORRECTLY INTERPRETED THE CONTRACT REQUIREMENTS, AND FURTHER CONSTITUTES AGREEMENT THAT THE BUILDING AS DRAWN, OR AS DRAWN WITH INDICATED CHANGES REPRESENTS THE TOTAL OF THE MATERIALS TO BE SUPPLIED BY MANUFACTURER
- E) ANY CHANGES NOTED ON THE DRAWINGS NOT IN CONFORMANCE WITH THE TERMS AND REQUIREMENTS OF THE CONTRACT BETWEEN MANUFACTURER AND ITS CUSTOMER ARE NOT BINDING ON MANUFACTURER UNLESS SUBSEQUENTLY SPECIFICALLY ACKNOWLEDGED AND AGREED TO IN WRITING BY CHANGE ORDER OR SEPARATE DOCUMENTATION. MANUFACTURER RECOGNIZES THAT RUBBER STAMPS ARE ROUTINELY USED FOR INDICATING APPROVAL, DISAPPROVAL, REJECTION, OR MERE REVIEW OF THE DRAWINGS SUBMITTED. HOWEVER, MANUFACTURER DOES NOT ACCEPT CHANGES OR ADDITIONS TO CONTRACTUAL TERMS AND CONDITIONS THAT MAY APPEAR WITH USE OF A STAMP OR SIMILAR INDICATION OF APPROVAL, DISAPPROVAL, ETC. SUCH LANGUAGE APPLIED TO MANUFACTURER'S DRAWINGS BY THE CUSTOMER, ARCHITECT, ENGINEER, OR ANY OTHER PARTY WILL BE CONSIDERED AS UNACCEPTABLE ALTERATIONS TO THESE DRAWING NOTES, AND WILL NOT ALTER THE CONTRACTUAL RIGHTS AND OBLIGATIONS EXISTING BETWEEN MANUFACTURER AND ITS CUSTOMER.

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| T HAS BEEN DESIGNED AND DETAILED FOR THE LOADS AND CONDITONS IN ON THESE DRAWINGS. ANY ALTERATORS TO THE STRUCTURAL SYSTEM OR IN THE CONSTRUCTION ANTERNALS OR LOADS MUST BE OF A REGISTRED ARCHTECT, CIVIL OR STRUCTURAL ENGINEER. BILTY FOR ANY LOADS NOT INDICATED. LACL COMPONENT BUILDING COMPANYS STANDARD PRACTICES WHICH ARE BASED MENDATIONS OF THE FOLLOWING ORGANIZATIONS AND CODES. NSTRUCTION. "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION INGS" UTE: "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL IRUCTURAL WELDING CODE" AWS D1.1. ASSOCIATION." "LOW RISE BUILDING SYSTEMS MANUAL" UTE STATEMATIONAL: "STANDARD BUILDING CODE" AINSTRATORS INTERNATIONAL: "STANDARD BUILDING CODE" AINSTRATORS INTERNATIONAL: "BOCA NATIONAL BUILDING CODE" AINSTRATORS ONFORM TO ASTM-A329 OR A-572. FLANGES WITH A MINIMUM YELD POINT OF AGOOR, WINDOWS DINS CONFORM TO ASTM-A329 OR A-572. FLANGES WITH A MINIMUM YELD POINT OF AGOOR, WINDOWS DINS CONFORM TO ASTM-A329 OR A-572. FLANGES WITH A MINIMUM YELD POINT OF AGOOR, WINDOWS DINS CONFORM TO ASTM-A329 OR A-572. FLANGES WITH A MINIMUM YELD POINT OF AGOOR, WIND WITH A MINIMUM YELD POINT DINS CONFORM TO ASTM-A326 OR ASTMA  | CASE SHO<br>RMFUL CO.<br>PANELS.<br>24GA<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>2001 IN IS LII<br>BY THE E, LOUVER<br>ROJECT I<br>IPMENT A<br>DESIGNET<br>NGS, AND<br>WPLY W<br>2<br>D LOAD<br>SED ON TRI<br>200 SQ. FT.<br>300 SQ. FT.<br>300 SQ. FT.<br>300 SQ. 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AC<br>NCLUDED. ALSO<br>NCLUDED. ALSO   | R COPPER. BO<br>ARE USED IN 0<br>VALUME SHOUL<br>SULATION:<br>COF #14 x 7/8<br>WIL #14 x 7/8<br>CESSORY ITE<br>EXCLUDED A<br>ATIONS, MASC<br>COVER SHOULD E<br>ROOF PLAN<br>SIDEWALL E<br>ENDWALL EI<br>CROSS SEC<br>ANCHOR<br>STD. SEC  | TH LEAD AND<br>CONTACT WIT<br>LD BE AVOID<br>WALL UL-25<br>* ZINC CAP<br>) ANCHOR BC<br>) BY OTHE<br>) ANCHOR BC<br>) BY DULD<br>BY BULD<br>BY BULD<br>BY BULD<br>BOLT PLAN<br>CTIONS  |
| BILTY FOR ANY LOADS NOT INDICATED.<br>BILTY FOR ANY LOADS NOT INDICATED.<br>BILC.I. COMPORENT BUILDING COMPANY'S STANDARD PRACTICES WHICH ARE BASED<br>MARNING. IN NO COPPER HAVE, MAN<br>INSTRUCTION: "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION<br>INSG"<br>UTE: "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL<br>INSG"<br>INTECUTURAL WELDING CODE" AWS D1.1.<br>ASSOCIATION: "LOW RISE BUILDING SYSTEMS MANUAL"<br>INJUDING OFFICIALS: "UNIFORM BUILDING CODE"<br>INJUGING OFFICIALS: "THE ABRICATION AL BUILDING CODE"<br>INJUGING OFFICIALS: "UNIFORM BUILDING CODE"<br>INJUGING OFFICIALS: "THE CARRICATION OF PRIMARY RIGID FRAMES, AND OTHER PRIMARY<br>INDIT OF 12" OR LESS CONFORM TO ASTM-A529 WITH A MINIMUM YELD POINT OF<br>IN THICKNESS OR 12" IN WOTH CONFORM TO AST2. FLANCES WITH<br>INDICATED AND<br>DOS CONFORM TO ASTM-A529 OR A-572. FLANCES WITH<br>INDICATED AND<br>DOS CONFORM TO ASTM-A529 WITH A MINIMUM YELD POINT OF<br>INDICATED AND ASDIFED WITH A MINIMUM YELD POINT OF<br>INDICATED AND ASDIFED WITH A MINIMUM YELD POINT OF<br>INDICATED AND ASDIFED WITH A MINIMUM YELD POINT OF<br>DOS STELL MEMBERS CONFORM TO ASTM-A529 WITH A MINIMUM YELD POINT<br>DOS STELL MEMBERS CONFORM TO ASTM-A529 WITH A MINIMUM YELD POINT<br>INDICATED ADDIFED WITH A MINIMUM YELD POINT OF<br>DOS STELL MEMBERS CONFORM TO ASTM-A529 WITH A MINIMUM YELD POINT OF<br>DOS STELL MEMBERS CONFORM TO ASTM-A529 WITH A MINIMUM YELD POINT OF<br>DOS STELL MEMBERS CONFORM TO ASTM-A520 OR A607<br>THED ENFORMACE REQUIREMENTS OF ATHE A MINIMUM YELD POINT OF<br>DOS ASTMA 475.<br>SUSIOL ASTM. A325 SPECIFICATIONS.<br>INDICATED DRAW<br>DO ASTM A475.<br>SUSIOL ASTM. A325 OR A-490 BOLTS (11-13-85), UNLESS OTHERWISE<br>DITHE PERFORMANCE REAL THE RESONSIBILITY OF THE CONTRACTOR, UNLESS<br>SUSIOL ASTM. A325 OR A-490 BOLTS (11-13-85), UNLESS OTHERWISE<br>DITHE PERFORMANCE REAL THE REFECTION MARK ON EACH SHIPP  | RMFUL CC.<br>PANELS.<br>24GA<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>200 FI.<br>300 SQ. FI   | RROSION EF<br>EVEN RUN-<br>SHE<br>1.5 VULCRA<br>(1/8" POP I<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>COLO<br>C  | FECTS ON THE<br>-OFF FROM COF<br>ING:<br>T DECK GLUM<br>INTES AT SPLICES)<br>  | ALUMINUM ZINK,<br>IPPER FLASHING,<br>IPPER FLASHING,<br>IPPER FLASHING,<br>IPPER FLASHING,<br>IRAKE NONEC<br>WALL<br>RAKE MEMBER<br>EAVE RAKE TO<br>GUTTER GUTTER<br>EAVE RAKE TO<br>GUTTER GUTTER<br>CORNER ADDITION<br>GUTLER ADDITION<br>GUTLER ADDITION<br>GUTLER ADDITION<br>GUTLER ADDITION<br>GUTLER ADDITION<br>GUTLER ADDITION<br>GUTLER ADDITION<br>CORNER ADDITION<br>CO | IC ALLOY COATIN<br>;, WIRING, OR TU<br>BY MANUFACTU<br>ROOF( #12 X 1 1/4<br>WALL #12 X 1 1/4<br>WALL #12 X 1 1/4<br>WALL #14 X 7/6<br>TO ROOF: #16 X 7/6<br>TO ROOF: #16 X 7/6<br>TO ROOF: #16 X 7/6<br>TO ROOF: #16 X 7/6<br>TO ROO | NG WHEN THEY J<br>JBING ONTO GAL<br>BLANKET TYPE IN<br>IRER ⊠ BY OTHERS<br>SCREWS<br>(4 ) STITCH RO<br>(4 ) STITCH RO<br>(4 ) STITCH WA<br>8 RAKE TO WA<br>(8 GUTTER STR<br>(8 RAKE ANGLE<br>0<br>G AND COVERIN<br>(8 RAKE ANGLE<br>0<br>CONTRACT. AC<br>NCLUDED. ALSO<br>ICH AS FOUND.<br>MANUFACTUREN<br>MANUFACTUREN<br>MANUFACTUREN<br>MANUFACTUREN<br>0<br>C1 OF 1<br>0<br>E1 OF 4<br>0<br>E2 OF 4<br>0<br>E3 OF 4<br>0<br>E3 OF 4<br>0<br>E4 OF 4<br>0<br>E5 OF 4<br>0<br>E4 OF 4<br>0<br>E5 OF 5<br>0<br>E5  | ARE USED IN V<br>VALUME SHOULS<br>SULATION:<br>OF( #14 x 7/8<br>WL( #14 x 7/8)<br>WL( #14 x   | CONTACT WITH<br>LD BE AVOIDE<br>WALL UL-25<br>* ZINC CAP<br>) ANCHOR BC<br>) BY OTHEF<br>BY BUILDI<br>BY BUILDI<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU<br>MANUFACTU   |
| INSTRUCTION:       "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION<br>INGS"       ICOPPER TAGE TAGE         UTE:       "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL<br>IRUCTURAL WELDING CODE" AWS D1.1.       INFORMED STEEL STRUCTURAL       INFORMED STEEL STRUCTURAL         ASSOCIATION:       "LOW RISE BUILDING SYSTEMS MANUAL"       INFORMED STEELS STRUCTURAL       INFORMED STEEL STRUCTURAL         MULDING OFFICIALS:       "UNIFORM BUILDING CODE"       INFORMED STEELS STRUCTURAL       INFORMED STEELS STRUCTURAL         MINISTRATORS INTERNATIONAL:       "STANDARD BUILDING CODE"       INFORMED STEELS STRUCTURAL       INFORMED STEELS STRUCTURAL         MINISTRATORS INTERNATIONAL:       "STANDARD BUILDING CODE"       INFORMED STEELS STRUCTURAL       INFORMED STEELS STRUCTURAL         MINISTRATORS INTERNATIONAL:       "BOCA NATIONAL BUILDING CODE"       INFORMED STEELS STRUCTURAL       INFORMED STEELS STRUCTURAL         MINISTRATORS INTERNATIONAL:       "BOCA NATIONAL BUILDING CODE"       INFORMED STRUCTURAL       INFORMED STRUCTURAL         MINISTRATORS OR STRUCTURAL       "INFORMED STRUCTURAL STRUCTURAL       INFORMED STRUCTURAL       INFORMED STRUCTURAL         MINISTRATORS OR ASTRUCTURAL       INFORMED STRUCTURAL       INFORMED STRUCTURAL       INFORMED STRUCTURAL         MINISTRATORS OR ASTRUCTURAL       INFORMED STRUCTURAL       INFORMED STRUCTURAL       INFORMARK         DISS CONFORM TO ASTM A35. <td>RMFUL CC.<br/>PANELS.<br/>24GA<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>26GA.<br/>200 FI.<br/>300 SQ. FI</td> <td>RROSION EF<br/>EVEN RUN-<br/>SHE<br/>1.5 VULCRA<br/>(1/8" POP I<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>COLO<br/>C</td> <td>FECTS ON THE<br/>-OFF FROM COF<br/>ING:<br/>T DECK GLUM<br/>INTES AT SPLICES)<br/></td> <td>ALUMINUM ZINK,<br/>IPPER FLASHING,<br/>IPPER FLASHING,<br/>IPPER FLASHING,<br/>IPPER FLASHING,<br/>IRAKE NONEC<br/>WALL<br/>RAKE MEMBER<br/>EAVE RAKE TO<br/>GUTTER GUTTER<br/>EAVE RAKE TO<br/>GUTTER GUTTER<br/>CORNER ADDITION<br/>GUTLER ADDITION<br/>GUTLER ADDITION<br/>GUTLER ADDITION<br/>GUTLER ADDITION<br/>GUTLER ADDITION<br/>GUTLER ADDITION<br/>GUTLER ADDITION<br/>CORNER ADDITION<br/>CO</td> <td>IC ALLOY COATIN<br/>;, WIRING, OR TU<br/>BY MANUFACTU<br/>ROOF( #12 X 1 1/4<br/>WALL #12 X 1 1/4<br/>WALL #12 X 1 1/4<br/>WALL #14 X 7/6<br/>TO ROOF: #16 X 7/6<br/>TO ROOF: #16 X 7/6<br/>TO ROOF: #16 X 7/6<br/>TO ROO</td> <td>NG WHEN THEY J<br/>JBING ONTO GAL<br/>BLANKET TYPE IN<br/>IRER ⊠ BY OTHERS<br/>SCREWS<br/>(4 ) STITCH RO<br/>(4 ) STITCH RO<br/>(4 ) STITCH WA<br/>8 RAKE TO WA<br/>8 RAKE TO WA<br/>(8 GUTTER STR<br/>(8 RAKE ANGLE<br/>0<br/>G AND COVERIN<br/>(8 RAKE ANGLE<br/>0<br/>CONTRACT. AC<br/>NCLUDED. ALSO<br/>ICH AS FOUND.<br/>MANUFACTUREN<br/>MANUFACTUREN<br/>MANUFACTUREN<br/>0<br/>C1 OF 1<br/>0<br/>E1 OF 4<br/>0<br/>E2 OF 4<br/>0<br/>E3 OF 4<br/>0<br/>E3 OF 4<br/>0<br/>E4 OF 4<br/>0<br/>E5 OF 4<br/>0<br/>E5</td> <td>ARE USED IN V<br/>VALUME SHOULS<br/>SULATION:<br/>OF( #14 x 7/8<br/>WL( #14 x 7/8)<br/>WL( #14 x</td> <td>CONTACT WIT<br/>LD BE AVOID<br/>WALL UL-22<br/>* ZINC CAF<br/>) ANCHOR BU<br/>BY DITHE<br/>BY BULD<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANUFACT<br/>WANU</td> | RMFUL CC.<br>PANELS.<br>24GA<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>26GA.<br>200 FI.<br>300 SQ. 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AC<br>NCLUDED. ALSO<br>ICH AS FOUND.<br>MANUFACTUREN<br>MANUFACTUREN<br>MANUFACTUREN<br>0<br>C1 OF 1<br>0<br>E1 OF 4<br>0<br>E2 OF 4<br>0<br>E3 OF 4<br>0<br>E3 OF 4<br>0<br>E4 OF 4<br>0<br>E5  | ARE USED IN V<br>VALUME SHOULS<br>SULATION:<br>OF( #14 x 7/8<br>WL( #14 x 7/8)<br>WL( #14 x   | CONTACT WIT<br>LD BE AVOID<br>WALL UL-22<br>* ZINC CAF<br>) ANCHOR BU<br>BY DITHE<br>BY BULD<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANUFACT<br>WANU   |
| IRUCTURAL WELDING CODE" AWS D1.1.       ASSOCIATION:       "LOW RISE BUILDING SYSTEMS MANUAL"         JULDING OFFICIALS:       "UNIFORM BUILDING CODE"       WRAMITES         JULDING OFFICIALS:       "UNIFORM SUPPORT       SUPPORT         JULDING CODE"       SUPPORT       SUPPORT       SUPPORT         JULDING OFFICIALS:       "UNIFORM SUPPORT       SUPPORT       SUPPORT         JULDING CONFORM TO ASTM-A350 OR AST       SUPPORT       SUPPORT       SUPPORT         JULDING CONFORM TO ASTM A35.       REQUIRED AST APER CONFORM TO ASTM A35.       SUPPORT       SUPPORT         JULDING CORDANCE WITH A MINUMA YIELD POINT OF ASTM A475.       SUPPORT       SUPPORT       SUPPORT         JULDING CONFORM TO ASTM A36.       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<td>T DECK GLUM<br/>INETS AT SPLICES)<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C<br/>C</td> <td>WALL<br/>MEMBER<br/>RAKE MEMBER<br/>EAVE RAKE TO<br/>GUTTER GUTTER T<br/>DOWNS. CORNER<br/>CORNER ADDITION<br/>BUILDING L<br/>ESIGNED UTILIZ<br/>RAL DESIGN OF<br/>R AND AS SPEC<br/>S, VENTILATOR<br/>BUILDING MANU<br/>INSPECTION OF<br/>RDANCE WITH<br/>TOTCES.<br/>D IS TO CONFIF<br/>HE LOCAL BUIL<br/>ATION 16-6 ]<br/>CONDARY )<br/>( <u>C</u> = - )</td> <td>ROOF(#12 X 1 1/4           RAUL(#12 X 1 1/4           ROOF: #14 x 7/8           TO ROOF: #14 x 7/8           TO ROOF: #14 x 7/1           TRIM: #14 x 7/1           INAL FEATURES:           LOADS           ZING THE LOAD           IBC 2009           F THE FRAMING           CCIFIED IN THE           INFACTURER SUDER SUDER SUDER SUDER           DF THE BUILDING THE BUILDING THE BUILDING DEPT.</td> <td>Direct         Direct           SCREWS         3           (4)         STITCH R0           (4)         STITCH WA           8         RAKE TO WA           78         GUTTER STR/           78         RAKE TO WA           78         RAKE TO WA           78         RAKE ANGLE           0S         GAND COVERINCONTRACT. 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ASSOCIATION: "LOW RISE BUILDING SYSTEMS MANUAL" "WIRDING OFFICIALS: "UNIFORM BUILDING CODE" ULI 30 M/A 20 19 ROOF N/A 20 10 ROOF N/A 20 10 POINT 20 10 POINT 20 19 ROOF N/A 20 10 POINT 20 10 POINT 20 19 ROOF ST.000 POINT 20 10 ROOF	26GA. 26GA. 26GA. 26GA. 26GA. 26GA. 26GA. 26GA. 26GA. 2001 2005 2007 200	COLO	R	EAVE RAKE TO GUTTER GUTTER T DOWNS. CORNER CORNER ADDITION BUILDING L ESIGNED UTILIZ RAL DESIGN OF R AND AS SPEC S, VENTILATOR BUILDING MANU INSPECTION O RDANCE WITH TO TICES. D IS TO CONFIR HE LOCAL BUIL ATION 16-6 ] ECONDARY ) RIMARY ) ( <u>C</u> = - )	0 ROOF: #14 x 7/8 TO ROOF: #14 x 7/7 TRIM: #14 x 7/7 INC ROOF: #177 INC ROOF: #177 INC ROOF: #177 INC ROOF	B     Rake to wait       /8     gutter struing       /8     rake angle       05     gutter struing       06     gutter struing       07     gutter struing	LL: APS: APS: CCESSORY ITE EXCLUDED A ATIONS, MASC NG SHOULD E R'S DESIGN M AWING IN DESO COVER SH COVER	EMS SUCH / ARE OTHER DNRY WALLS ENCLOSE SE ERECTED JANUAL, TH UDEX REPTION HEET LEVATIONS CTION BOLT PLAN
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   | CEESSORY ITE<br>EXCLUDED A<br>ATIONS, MASC<br>NG SHOULD E<br>R'S DESIGN M<br>AWING IN<br>DESIGN M<br>COVER SH<br>COVER SH<br>ROOF PLAN<br>SIDE WALL E<br>ENDWALL EI<br>CROSS SEC<br>ANCHOR<br>STD. SEC  | ARE OTHER<br>DNRY WALLS<br>BE ERECTED<br>MANUAL, THI<br>NDEX<br>RIPTION<br>HEET<br>LEVATIONS<br>TION<br>BOLT PLAN<br>CTIONS   
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| 201 - 6       201 - 6         201 - 6       201 - 6         201 - 6       201 - 6         201 - 6       0VER  | 500 SQ. FT.<br>500 SQ. FT.<br><u>OAD</u><br>D  | IB<br>12<br>  | C 2003 [ EQUAT<br>PSF<br>PSF ( SEC<br>PSF ( PR<br>PSF<br>PSF<br>MPH, EXF   | CONDARY )<br>RIMARY )<br>( <u>C =</u> - )  | )  | 0 E1 OF 4<br>0 E2 OF 4<br>0 E3 OF 4<br>0 E4 OF 4<br>0 AB1 OF 1<br>0 S1 OF 1   | ROOF PLAN<br>SIDEWALL E<br>ENDWALL EI<br>CROSS SEC<br>ANCHOR<br>STD. SEC  | I<br>ELEVATIONS<br>LEVATIONS<br>CTION<br>BOLT PLAN<br>CTIONS   |
| OF A STICKER NEAR THE ERECTION MARK ON EACH SHIPPED PIECE.       WIND SPEED         DINT EQUAL TO OR GREATER THAN 33,000 PSI SHALL BE IDENTIFIED BY       SEISMIC         Use Group       Stecomponent         SAFETY COMMITMENT       Use Group         MMITMENT TO MANUFACTURE QUALITY BUILDING COMPONENTS THAT CAN BE       Design Category         MMITMENT AND JOB SITE PRACTICES OF THE ERECTOR ARE BEYOND THE       WIND LOAD         AFE WORKING CONDITIONS AND ACCIDENT PREVENTION PRACTICES BE THE TOP       SNOW LOAD         SEISMIC LOAD       SNOW LOAD         SEISMIC LOAD       SEISMIC LOAD         WIND HEALTH STANDARDS SHOULD ALWAYS BE FOLLOWED TO HELP INSURE       MEZZANINE LOAD         THE SAFEST AND MOST PRODUCTIVE WAY OF ERECTING A BUILDING.       MEZZANINE LOAD         OWN TO ALL EMPLOYEES.       THE USE OF HARD HATS, RUBBER       LI  
   
  | TORS   | <u></u><br><br><br>S s=<br>1.0<br>1.2   
   | MPH, EXF   | (POSURE <u>B</u>   |  | 0 S1 OF 1  
  | STD. SEC  | TIONS  
   |
| SAFETY COMMITMENT       Site Class         Design Category       Design Category         MMITMENT TO MANUFACTURE QUALITY BUILDING COMPONENTS THAT CAN BE<br>COMMITMENT AND JOB SITE PRACTICES OF THE ERECTOR ARE BEYOND THE       IMPORTANCE FAC<br>WIND LOAD         AFE WORKING CONDITIONS AND ACCIDENT PREVENTION PRACTICES BE THE TOP<br>ND HEALTH STANDARDS SHOULD ALWAYS BE FOLLOWED TO HELP INSURE       SNOW LOAD<br>SEISMIC LOAD         THE SAFEST AND MOST PRODUCTIVE WAY OF ERECTING A BUILDING.<br>OWN TO ALL EMPLOYEES.<br>PROCEDURES ARE ALSO RECOMMENDED. THE USE OF HARD HATS, RUBBER       MEZZANINE LOAD  
   
  | TORS   | <u>1.0</u><br><u>1.2</u>  
   | -,S <sub>1</sub> =   |  |  |  
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| MMINENT TO MANUFACTURE QUALITY BUILDING COMPONENTS THAT CAN BE       WIND LOAD         COMMITMENT AND JOB SITE PRACTICES OF THE ERECTOR ARE BEYOND THE       WIND LOAD         AFE WORKING CONDITIONS AND ACCIDENT PREVENTION PRACTICES BE THE TOP       SNOW LOAD         ND HEALTH STANDARDS SHOULD ALWAYS BE FOLLOWED TO HELP INSURE       SEISMIC LOAD         THE SAFEST AND MOST PRODUCTIVE WAY OF ERECTING A BUILDING.       MEZZANINE LOAD         OWN TO ALL EMPLOYEES.       LI         PROCEDURES ARE ALSO RECOMMENDED. THE USE OF HARD HATS, RUBBER       LI   
   
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| ND HEALTH STANDARDS SHOULD ALWAYS BE FOLLOWED TO HELP INSURE<br>THE SAFEST AND MOST PRODUCTIVE WAY OF ERECTING A BUILDING.<br>OWN TO ALL EMPLOYEES.<br>PROCEDURES ARE ALSO RECOMMENDED. THE USE OF HARD HATS, RUBBER<br>LI   
   
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| THE SAFEST AND MOST PRODUCTIVE WAY OF ERECTING A BUILDING. MEZZANINE LOAD<br>OWN TO ALL EMPLOYEES. LI<br>PROCEDURES ARE ALSO RECOMMENDED. THE USE OF HARD HATS, RUBBER   
   
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  | E   | APR<br>RUCTURAL ONLY<br>IDATION BY OTHER<br>HEATON BY OTHER<br>HEATON NAMOIA<br>SADD<br>GIA ENGR. OF T.<br>F-8528  
   |
| DRAWING STATUS   
   
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| EOR APPROVAL:<br>THESE DRAWINGS, BEING FOR APPROVAL, ARE BY DEFINITION NOT<br>FINAL, AND ARE FOR CONCEPTUAL REPRESENTATION ONLY. THEIR<br>PURPOSE IS TO CONFIRM PROPER INTERRETATION OF THE PROJECT<br>DOCUMENTS. ONLY DRAWINGS ISSUED "FOR CONSTRUCTION" CAN BE<br>CONSIDERED AS COMPLETE.     NO.     DATE     DESCRIPTION   
   
  | <u>DN</u>  | BY CKD<br>PH  
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| CONSIDERED AS COMPLETE.  
   
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   | DESCRIPTION COV  | FR SHEFT   |  | S.   
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  |  |   
   | CUSTOMER MOC   | 60'-6 X 105'-  | <u>-0 X 18'-0 L</u>  |  
  | Lou   | UD BY  
   |

	CUSTOMER	MOCK							
	LOCATION		DGE, TEXAS					CAD BY	
	DRN. BY	CK'D BY	DATE	SCALE	JOB NO.	PH	BLDG. DESC.	SHEET NO.	ISSUE
			3/26/15	NONE			(ALTIN)	C1 OF 1	0

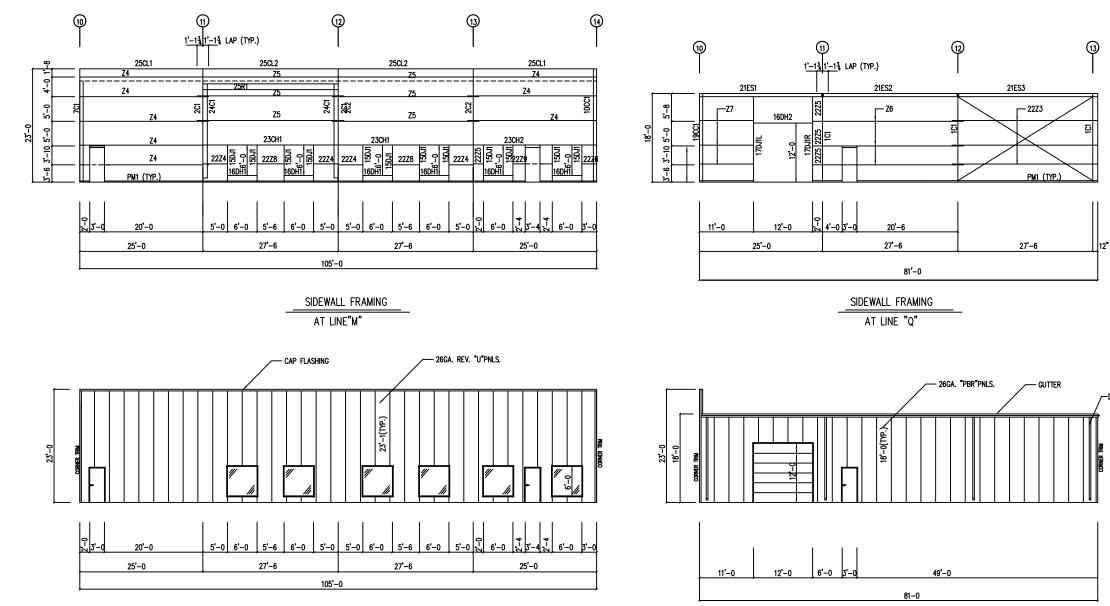


ROOF FRAMING PLAN

DRAWING STATUS			REVISIO	NS											
FOR APPROVAL:	NO.	DATE	DES	CRIPTION	BY	CK'D			15		CTC	-,			
THESE DRAWINGS, BEING FOR APPROVAL, ARE BY DEFINITION NOT	0	3/26/15	FOR CONS	TRUCTION	PH		1		UL.	JIVI	SIFF	·/			
FINAL, AND ARE FOR CONCEPTUAL REPRESENTATION ONLY. THEIR PURPOSE IS TO CONFIRM PROPER INTERPRETATION OF THE PROJECT	-						1		02		0.22		•		
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FOR PERMIT:							SIZE	SS 60'	-6 X 105'-	0 X 18	'–0 L.S.				
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DRAWINGS ISSUED "FOR CONSTRUCTION " CAN BE CONSIDERED AS														CAD BY	
COMPLETE.					-	-	LOCATION		DGE, TEXAS			-			
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FINAL DRAWINGS.							1		3/26/15	NONE			(40.444)	E1 OF 4	0

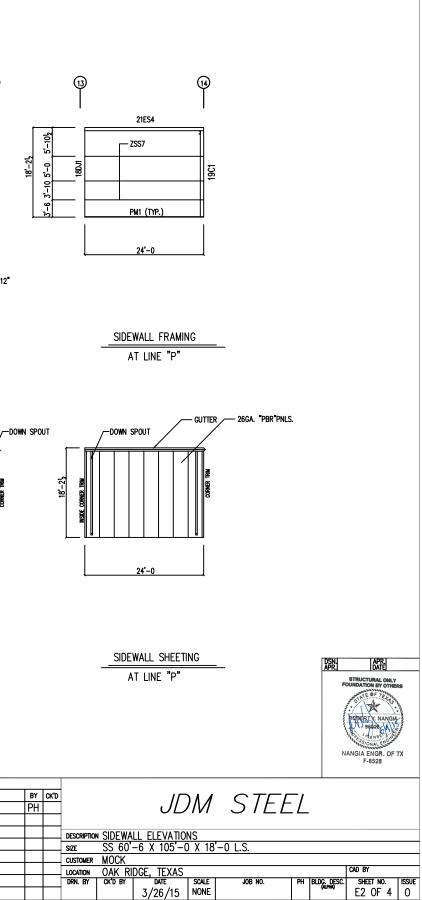


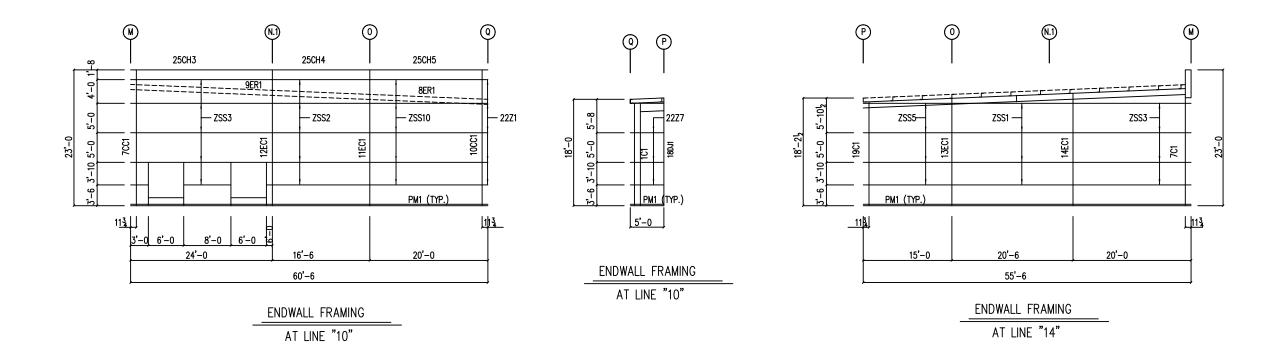


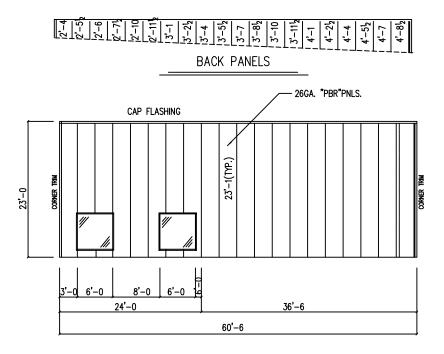


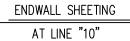
SIDEWALL SHEETING AT LINE"M" SIDEWALL SHEETING

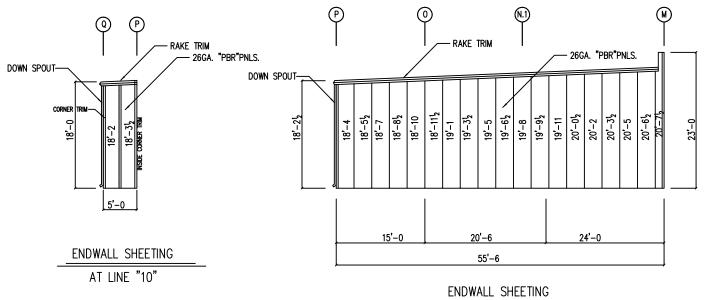
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FINAL, AND ARE FOR CONCEPTUAL REPRESENTATION ONLY. THEIR PURPOSE IS TO CONFIRM PROPER INTERPRETATION OF THE PROJECT			
DOCUMENTS. ONLY DRAWINGS ISSUED "FOR CONSTRUCTION" CAN BE CONSIDERED AS COMPLETE.			
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THESE DRAWINGS, BEING FOR PERMIT, ARE BY DEFINITION NOT FINAL IN THAT, AS A MINIMUM. PIECE MARKINGS ARE NOT IDENTIFIED. ONLY			
DRAWINGS ISSUED "FOR CONSTRUCTION " CAN BE CONSIDERED AS			
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FINAL DRAWINGS.			









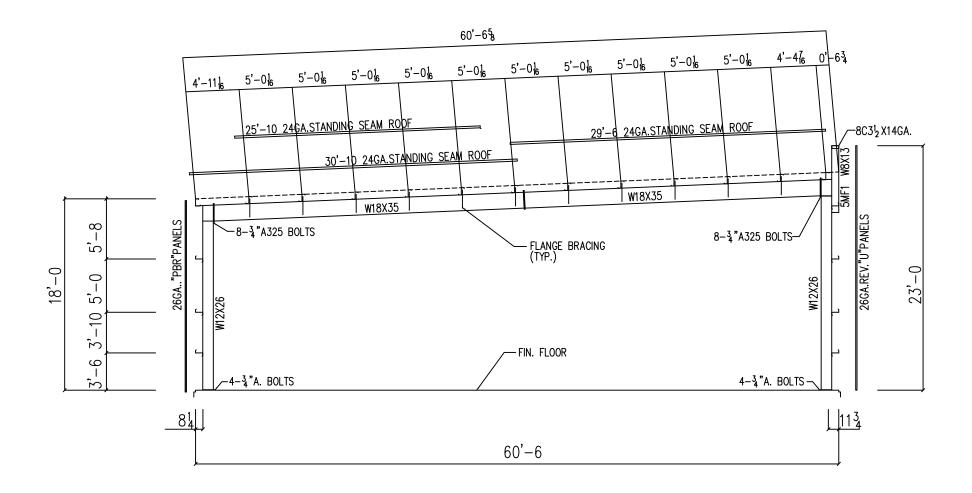


AT LINE "14"

DRAWING STATUS			REVISIONS							
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FINAL, AND ARE FOR CONCEPTUAL REPRESENTATION ONLY. THEIR PURPOSE IS TO CONFIRM PROPER INTERPRETATION OF THE PROJECT								-		
DOCUMENTS. ONLY DRAWINGS ISSUED "FOR CONSTRUCTION" CAN BE	-									
CONSIDERED AS COMPLETE.							SCRIPTION ENDWALL ELEVATIONS			
FOR PERMIT:							e SS 60'-6 X 105'-0 X 18'-0 L.S.			
THESE DRAWINGS, BEING FOR PERMIT, ARE BY DEFINITION NOT FINAL										
IN THAT, AS A MINIMUM, PIECE MARKINGS ARE NOT IDENTIFIED. ONLY							stomer MOCK			
DRAWINGS ISSUED "FOR CONSTRUCTION " CAN BE CONSIDERED AS							CATION OAK RIDGE, TEXAS		CAD BY	
COMPLETE.										LIGOUE
FOR CONSTRUCTION:							IN. BY CK'D BY DATE SCALE JOB NO. F	H BLDG. DESC	. Sheet no.	ISSUE
FINAL DRAWINGS.							3/26/15 NONE	(40114)	E3 OF 4	0







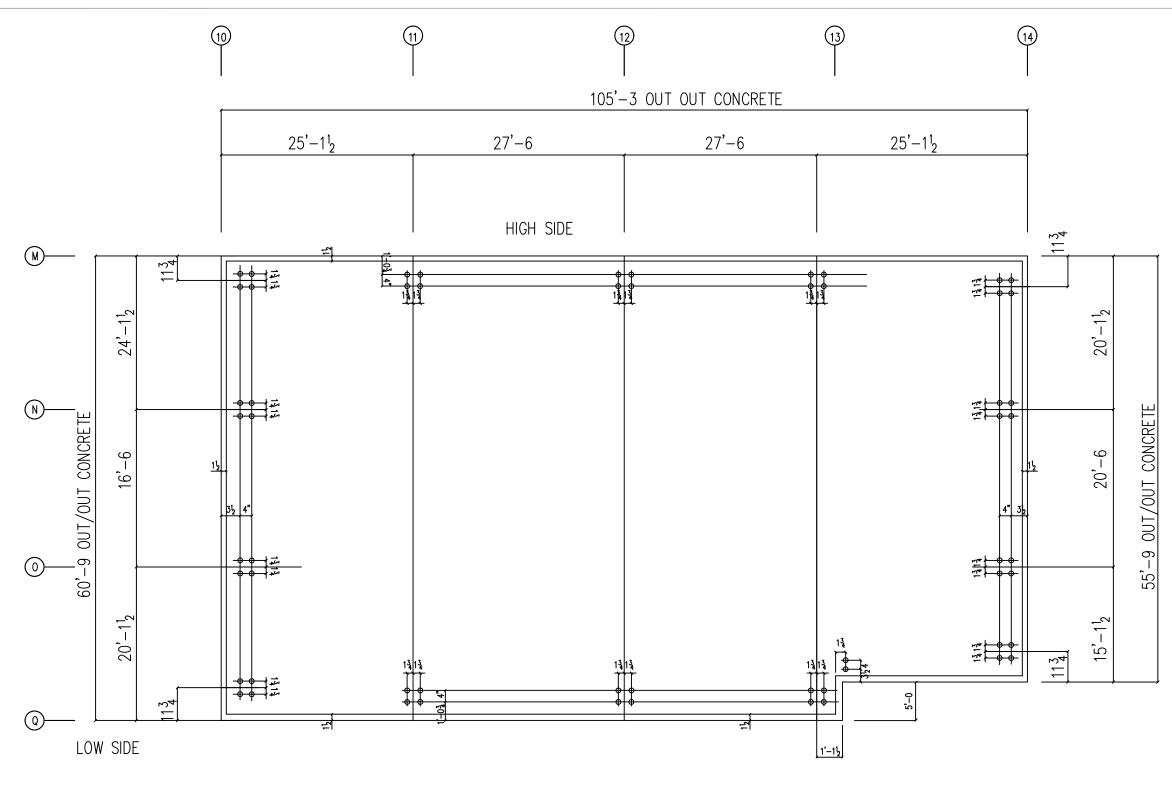
CROSS SECTION AT LINES "11,12, & 13"

DRAWING STATUS			REVISIONS
FOR APPROVAL:	NO.	DATE	DESCRIPTION
THESE DRAWINGS, BEING FOR APPROVAL, ARE BY DEFINITION NOT	0	3/26/15	FOR CONSTRUCTION
FINAL, AND ARE FOR CONCEPTUAL REPRESENTATION ONLY. THEIR PURPOSE IS TO CONFIRM PROPER INTERPRETATION OF THE PROJECT			
DOCUMENTS. ONLY DRAWINGS ISSUED "FOR CONSTRUCTION" CAN BE CONSIDERED AS COMPLETE.			
I THESE DRAWINGS, BEING FOR PERMIT, ARE BY DEFINITION NOT FINAL IN THAT, AS A MINIMUM. PIECE MARKINGS ARE NOT IDENTIFIED. ONLY			
DRAWINGS ISSUED "FOR CONSTRUCTION " CAN BE CONSIDERED AS			
COMPLETE.			
FINAL DRAWINGS.			

<u>12</u>

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BY	CK'D					CTCC	-,			
PH				ر ال	V	STEE	1			
						• • = =		•		
		DECODIDITION		SECTION						
		DESCRIPTION	08055	SECTION						
		SIZE	SS 60	-6 X 105'-C	) X 18	′−0 L.S.				
		CUSTOMER	MOCK							
		LOCATION	OAK RI	DGE, TEXAS					CAD BY	
		DRN. BY	CK'D BY	DATE	SCALE	JOB NO.	PH	BLDG, DESC.	Sheet NO.	ISSUE
				3/26/15	NONE			(ALPHA)	E4 OF 4	0

STRUCTURAL FOUNDATION BY OT



ANCHOR BOLT PLAN

DRAWING STATUS			REVISIONS
FOR APPROVAL:	NO.	DATE	DESCRIPTION
THESE DRAWINGS, BEING FOR APPROVAL, ARE BY DEFINITION NOT	0	3/26/15	FOR CONSTRUCTION
FINAL, AND ARE FOR CONCEPTUAL REPRESENTATION ONLY. THEIR PURPOSE IS TO CONFIRM PROPER INTERPRETATION OF THE PROJECT			
DOCUMENTS. ONLY DRAWINGS ISSUED "FOR CONSTRUCTION" CAN BE CONSIDERED AS COMPLETE.			
FOR PERMIT:			
THESE DRAWINGS, BEING FOR PERMIT, ARE BY DEFINITION NOT FINAL IN THAT, AS A MINIMUM, PIECE MARKINGS ARE NOT IDENTIFIED. ONLY			
DRAWINGS ISSUED "FOR CONSTRUCTION " CAN BE CONSIDERED AS			
COMPLETE.			
FINAL DRAWINGS.			



 BY CKD
 JDM STEEL

 PH
 Description ANCHOR BOLT PLAN

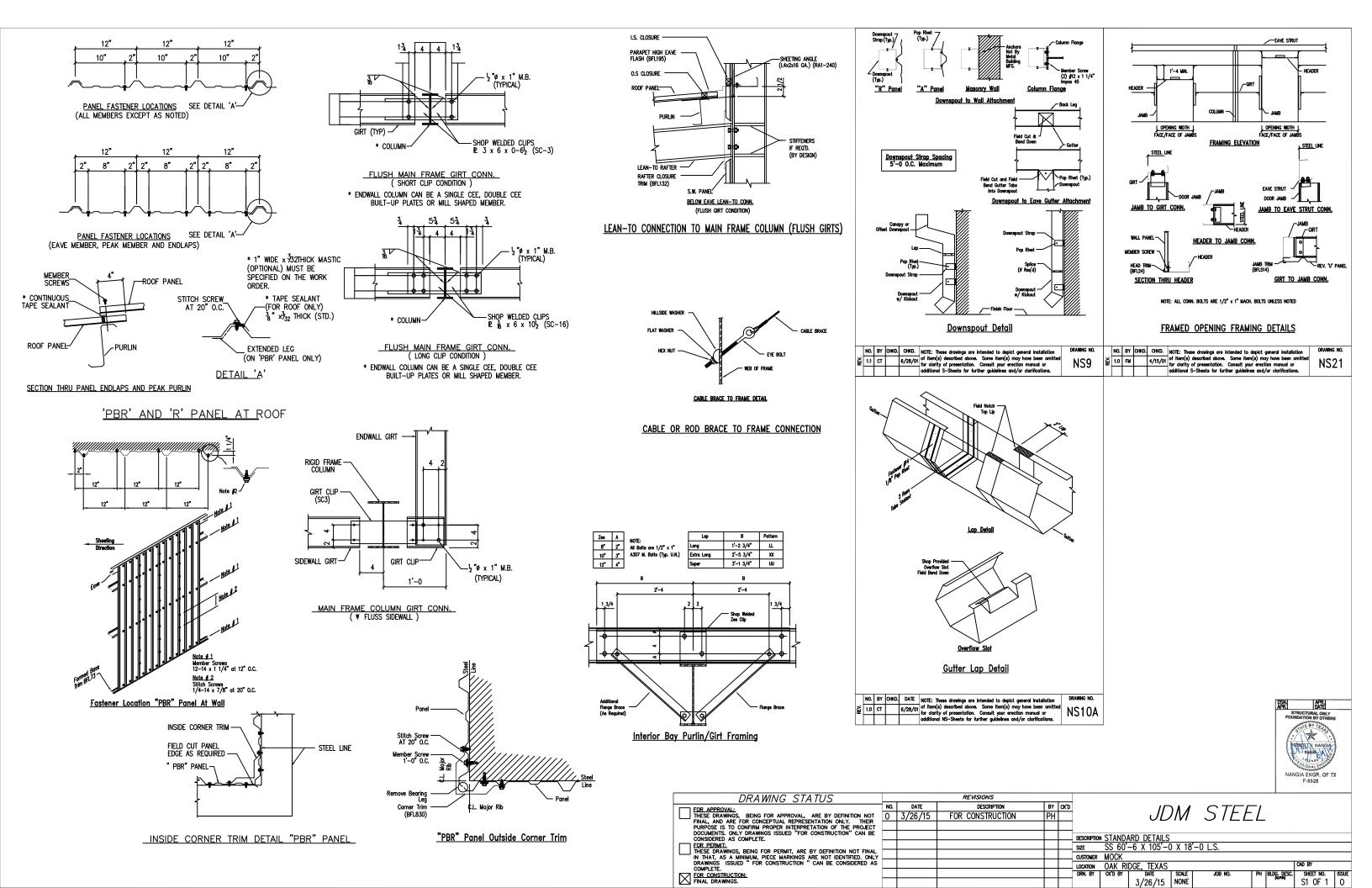
 SIZE
 SS 60'-6 X 105'-0 X 18'-0 L.S.

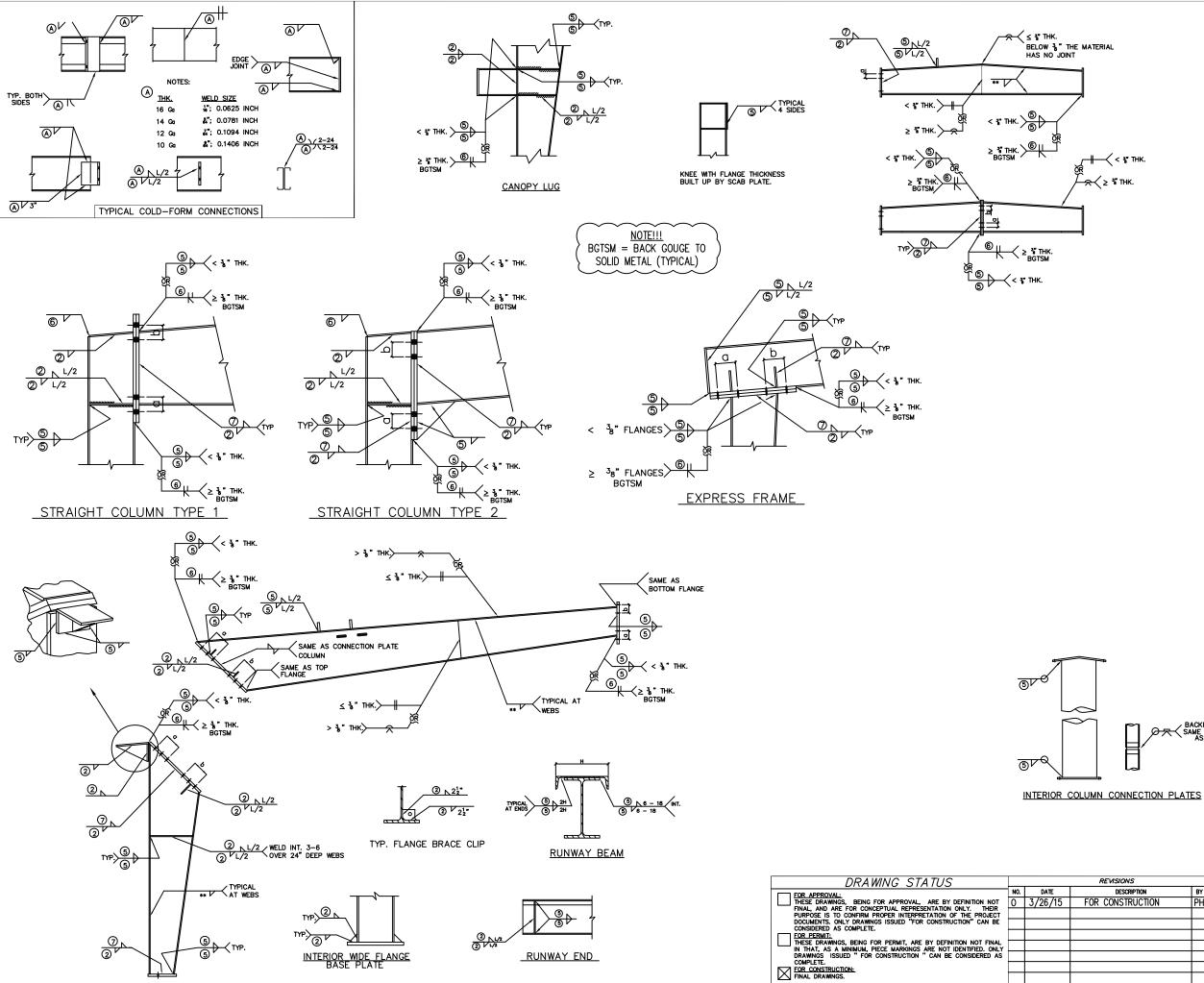
 CUSTOMER
 MOCK

 LOCATION
 OAK RIDGE, TEXAS

 DRN. BY
 CKD BY

 JZ6/15
 NONE





\*\* NOTE: SIZES OF FILLET WELD FOR WEB TO FLANGE WELD.

WEB	FL/	ANGE THICKN	ESS
THICKNESS	<sup>3</sup> 1ő	<sup>1</sup> 4" to <sup>1</sup> 2"	OVER <sup>1</sup> 2"
10 GA. & <sup>3</sup> 16"	<sup>3</sup> 1ő	SEE NOTE 2	
<sup>1</sup> 4"		<sup>3</sup> 1ő	SEE NOTE
<sup>5</sup> 1ő	SEE NOTE	1 <sub>4</sub> "	2 /
<sup>3</sup> 8"		<sup>5</sup> 1ő	
OVER 38"		SEE NOTE 3	<i></i>

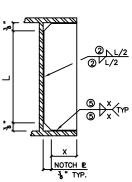
NOTES:

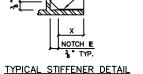
- <sup>3</sup>16" FLANGES ARE NOT TO BE USED FOR WEB 1. THICKNESS OF 14" OR OVER UNLESS SPECIFIED BY ENGINEERING.
- 2. WELD SIZE EQUALS TO THICKNESS OF WEB OR SEE NOTE 5.
- SEE NOTE D.
   FOR WEB THICKNESS OVER <sup>3</sup>8" ALL FILLET SIZES ARE TO BE SPECIFIED BY ENGINEERING.
   WELD BOTH SIDES OF WEB TO FLANGE 3" BEYOND BOTH ENDS OF BRACKET.
   E FLANGE TO BE ANDER OF BRACKET.
- 5. FLANGE TO FLANGE OR FLANGE TO CONNECTION PLATE WELD SIZES ARE DETERMINED BY THE FOLLWING CRITERIA:

$t_{f} \leq \frac{3}{8}"$ $\frac{3}{8}" < t_{f} \leq \frac{3}{4}"$	<sup>3</sup> 16" FILLET
${}^{3}_{8}$ " < t <sub>f</sub> $\leq {}^{3}_{4}$ "	$\mathbb{N}$ with $^{1}_{4}$ Fillet
$t_f > \frac{34'}{4}$	WITH 16" FILLET

WELD NEED NOT EXCEED THICKNESS OF THINNER PART JOINED.

- WELD SIZE IS TO BE <sup>1</sup>16" LESS THAN THICKER PLATE, BUT NOT TO EXCEED THICKNESS OF THINNER PLATE. 6.
- 7. OPPOSITE SIDE WELD LENGTH TO BE a DIMENSION PLUS 3 INCHES, AND b DIMENSION PLUS 3 INCHES.







Ø A A 2 NL/2 2 VL/2 BUILT-UP COLUMNS ONLY \*\* 1 0 TYP. QV

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DSN. APR. NANGIA ENGR. OF TX F-8528

10N	by PH	CKD			JD	М	STEE	Ľ			
			DESCRIPTION	WELD S	HEET						
			SIZE	SS 60'-	-6 X 105'-C	X 18	–0 L.S.				
			CUSTOMER	MOCK							
			LOCATION	OAK RI	DGE, TEXAS					CAD BY	
			DRN. BY	CK"D BY	DATE	SCALE	JOB NO.	PH	BLDG. DESC.	SHEET NO.	ISSUE
					3/26/15	NONE			(NUTRY)	W1 OF 1	0

<ul> <li>THE DRAWINGS ARE SCHEMATIC IN NATURE AND SHOW APPROXIMATE LOCATIONS OF EQUIPMENT, DUCTWORK ETC. IT IS IT IS CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY LOCATIONS OF NEW EQUIPMENT, DUCTWORK ETC.</li> <li>CONTRACTOR SHALL GUARANTEE LABOR AND MATERIALS FOR ONE(1) YEAR.</li> <li>CONTRACTOR SHALL, AT HIS OWN EXPENSE, OBTAIN ALL NECESSARY PERMITS, PAY ALL LEGAL FEES AND CHARGES</li> </ul>	HANDICAP WATER CLOSET WC-1FLOOR MOUNT, TANK TYPE, 18" RIM HEIGHT, OPEN FRONT PLASTIC WHITE SEAT, NO COVER. HANDICAP LAVATORY LAV-1 4" CENTERS, VITREOUS CHINA, WALL HUNG CONCEALED ARMS. GRID DRAIN DELTA #500-WF AND SOFT FLO AERATOR. MOUNT AT HANDICAPPED HEIGHT.
PERTAINING TO THE WORK UNDER THIS SECTION, AND COMPLY W/ ALL NATIONAL CODES, STATE AND LOCAL MUNICIPAL BUILDING CODES, SAFETY LAWS, ORDINANCES AND REGULATIONS REGARDING CODES, SAFETY LAWS APPLICABLE TO PROJECT.	FLOOR DRAIN FD-1: J.R. SMITH #2005A-P CASH IRON, NICKEL BRONZE STRAINER, TRAP PRIM ELECTRIC WATER HEATER EWH-1: A.O SMITH #DEL-6 6 GALLON STORAGE, 120V/1/60HZ, 3 K
<ul> <li>CONTRACTOR SHALL PRODUCE RECORD DRAWINGS ON REPRODUCIBLE MEDIA.</li> <li>REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR TYPE OF CEILING AND LOCATION OF CEILING DEVICES.</li> <li>PLENUMS ARE CROWDED AND NOT ALL OBSTACLES ARE INDICATED. ALLOW FOR ADDITIONAL DUCT OR PIPE OFFSETS TRANSITIONS NOT INDICATED ON DRAWINGS.</li> </ul>	<ul> <li>GENERAL NOTES: ( APPLY TO ALL SHEETS)</li> <li>G1 ALL CIRCUIT NUMBERS SHOWN ARE FOR REFERENCE ONLY. FIELD VERIFY ACTUAL CIRCUIT NUMBERS REQD AND ADJUST ACCORDINGLY. PROVIDE NEW TYPE-WRITTEN DIRECTORIES REFLECTING ACTUAL CIRCUIT NUMBERS USED, W/NEW AND/OR RELOCATED CIRCUITS CLEARL INDICATED. NERW DIRECTORIES SHALL INCLUDE DATE AND PROJECT DESCRIPTION, EXAMPLE:</li> </ul>
<ul> <li>SEAL ALL NEW OR EXISTING PENETRATIONS OF RATED WALLS AND EXTERIOR WALLS.</li> <li>PROVIDE ANY REQUIRED TEMPORARY UTILITIES.</li> </ul>	1997 NEW LEASE. DO NOT DISCARD OLD DIRECTORIES. PLACE NEW DIRECTORIES OVER OLD. G2 EACH CIRCUIT IS SHOWN W/AN INDIVIDUAL HOMERUN. E.C. MAY ELECT TO COMBINE TWO OF
<ul> <li>SCHEDULE ALL SERVICE INTERRUPTIONS IN ADVANCE WITH THE OWNER.</li> <li>VISIT SITE PRIOR TO BIDDING. NO EXTRAS WILL BE ALLOWED FOR CONDITIONS THAT COULD BE READILY OBSERVED.</li> </ul>	MORE CIRCUITS IN ONE COMMON CONDUIT AND W/ COMMON NEUTRAL WHERE ALLOWED (CIRCUITS W/ HIGH CONTENT OF HARMONIC CURRENTS MAY NOT USE COMMON NEUTRAL, EXAMPLE: LIGHTING CIRCUITS W/ELECTRONIC BALLASTS, CIRCUITS W/NON-LINEAR ELECTRONI
<ul> <li>DO NOT RUN DUCTS OVER ELECTRICAL PANELS.</li> <li>WHERE SUPPLY OR RETURN GRILLS OR DIFFUSERS ARE INSTALLED IN FIRE RATED WALL OR CEILING, INSTALL FIRE DAMPER</li> </ul>	POWER SUPPLIES, ETC). NOTE: AMPACITIES OF CONDUCTORS SHALL BE REDUCED IF MORE THAN 3 CURRENT CARRYI
<ul> <li>WHERE SUPPLY OR RETORN GRILLS OR DIFFOSERS ARE INSTALLED IN FIRE RATED WALL OR CEILING, INSTALL FIRE DAMPER AHEAD OF IT AS PART OF THE DIFFUSER OR GRILL.</li> <li>INSTALL FIRE DAMPER WHEREVER FIRE WALLS ARE PENETRATED BY DUCTWORK.</li> <li>HVAC SPECIFICATIONS</li> </ul>	CONDUCTORS ARE INSTALLED IN A RACEWAY. SEE N.E.C. ARTICLE 310–15,8(a) "NOTES TO AMPACITY TABLES OF 0 TO 2000 VOLTS". CONDUCTORS SHALL BE DERATED IF 4 OR MORE WIRES ARE INSTALLED IN ONE CONDUIT (SEE RELATED NOTE "G3" ON TEMPERATURE LIMITA- TION OF CONDUCTOR AMPACITY), TYP. EXAMPLES FOR 20-AMP. CIRCUITS ARE SHOWN BELO
DEMOLITION:	NO. OF
NOT APPLICABLE. THIS IS ALL NEW.	CARRYING FOR TEMPERATURE CONDUIUT 60 °C WIRE CONDUIT 75 °C WIRE CONDUIT 90° C WI CONDUCTORS IF NECESSARY (E.G: TW) (E.G: THWN) (E.G: THHN)
DUCTWORK: DO NOT FABRICATE DUCT FROM THESE DRAWINGS, FIELD VERIFY ALL DIMENSIONS AND AVAILABLE SPACE. DIMENSIONS GIVEN	4 THRU 6 80 % # 12 # 12 # 12 7 THRU 9 70 % # 10 # 10 # 12
ON DRAWINGS ARE INSIDE FREE AREA. BALANCE DAMPERS IN ALL SUPPLY AND RETURN BRANCHES. BRANCH TAKEOFFS SHALL HAVE 45° ENTRY FITTING W/ VOLUME DAMPER. PROVIDE ALL SUPPLY ELBOWS W/ TURNING VANES.	10 THRU 20 50 % # 8 # 8 # 10 21 THRU 30 45 % # 6 # 8 # 8
DUCT DIMENSIONS SHOWN ARE TYPICAL AND MAY BE ADJUSTED TO FIT CONSTRUCTION METHOD AND LOCATION WITHOUT DECREASING THE CROSS-SECTIONAL AREA SPECIFIED. VERIFY CLEARANCES THROUGH ALL STRUCTURAL OPENINGS BEFORE	31 THRU 40 40 % # 6 # 8 # 8 41 & ABOVE 35 % # 4 # 6 # 6
FABRICATION. FIBERGLAS DUCT: FIBERGLAS 1.50" DUCTBOARD WITH FOIL-SCCRIM-KRAFT FACING CONSTRUCTED, REINFORCED	<b>G3</b> TEMPERATURE LIMITATIONS ON AAMPACITY OF CONDUCTOR: THE AMPACITY OF A CONDUCTOR SHALL BE SELECTED BASED ON THE NATIONAL ELECTRICAL
AND CONFORMED TO SMACNA, NAIMA OR TIMA STANDARDS FOR LOW VELOCITY DUCT. (<2" STATIC). PIPING:	CODE ARTICLES $310-15$ AND $110-14-(C)-(1),(2),(3)$ . THE TEMPERATURE LIMITATIONS NOTE IN $110-14-(C)-(1),(2),(3)$ MAY BE PARAPHRASED AS FOLLOWS:
A/C CONDENSATE DRAIN SHALL BE INSULATED COPPER OR GALVANIZED STEEL INSIDE BLDG, AND PVC SUPPORTED ON TREATED WOOD BLOCKS ON THE ROOF. SLOPE PIPE TO OUTLET AND PROVIDE 4" DEEP TRAP W/ CLEANOUT PLUGS.	(A) CIRCUITS RATED 100 AMPS. OR LESS: USE 60°C RATED CONDUCTORS ONLY; 75°C AND 90°C CONDUCTOR MAY BE USED BUT
ROUTE CONDENSATE DRAIN AS SHOWN OR TO NEAREST FLOOR DRAIN.	ONLY @ 60° C AMPACITY. EXCEPTIONS: HIGHER TEMPERATURE CABLES ARE ALLOWED PROVIDED THE EQUIPMMENT LISTED AND IDENTIFIED FOR USE WITH THE HIGHER RATED CONDUCTORS.
INSULATION: ALL INSULATION SHALL HAVE FLAME SPREAD LESS THAN 25, SMOKE DEVELOPED LESS THAN 50 AS PER ASTM E84,	(B) CIRCUITS RATED MORE THAN 100 AMPS. OR CONDUCTOR LARGER THAN NO. 1: USE 75°C RATED CONDUCTORS ONLY; 90°C CONDUCTOR MAY BE USED BUT ONLY @
NFPA 255, UL 273. EXTERNAL DUCT WRAP- 2" THICK, R=5.0 INSTALLED, FOIL FACE FLEXIBLE FIBER GLASS. ADHERE TO DUCT W/ VAPOR BARRIER-TYPE ADHESIVE. OVERLAP ALL JOINTS, COVER ALL JOINTS OR BREAKS W/ GLASS FAB	75° C AMPACITY. EXCEPTIONS: HIGHER TEMPERATURE CABLES ARE ALLOWED PROVIDED THE EQUIPMMENT
IMBEDDED IN VAPOR BARRIER MASTIC. SPLIT SYSTEM AIR CONDITIONING UNITS :	LISTED AND IDENTIFIED FOR USE WITH THE HIGHER RATED CONDUCTORS. G4 ALL CONDUIT AND WIRE MUST BE CONCEALED FROM VIEW. EXPOSED CONDUIT AND WIRE AR
AC UNITS SHALL BE STD EFFICIENCY, ELECTRIC, DX, SINGLE ZONE, CONSTANT VOLUME UNITS, UL OR CSA LISTED AND ARI CERTIFIED, INSULATED CABINET. COILS SHALL BE COPPER TUBE W/ ALUMINUM FINS. MANUAL OUTSIDE AIR DAMPER, LOW	NOT ACCEPTABLE. G5 ALL ELECTRICAL AND COMMUNICATION DEVICES(LIGHT SWITCHES, RECEPTACLES, TELEPHONE,
AMBIENT OPERATION, CRANKCASE HEATERS AND OVERLOAD PROTECTION, TIME DELAY RELAY, ANTI-SHORT CYCLE, THRU-THE-BASE POWER AND CONTROL WIRING; ROOF CURB; STATICALLY AND DYNAMICALLY BALANCED, ADJUSTABLE SHEAVE SUPPLY FAN W/ VIBRATION ISOLATION. FILTER RACK FOR 2" CARTRIDGE TYPE. ROUTE CONTROL WIRES INSIDE UNIT; CONTROL	DATA, ETC.) SHALL BE RECESSED MOUNTED UNLESS NOTED OTHERWISE. FIELD VERIFY RECEPTACLE MOUNTING REQUIREMENTS WITH OWNER/ARCHITECT. IF NO REQUIREMENTS, MOU
WIRES SHALL BE IN CONDUIT IF ROUTED OUTDOORS. UNIT SHALL BE SINGLE POINT ELECTRICAL CONNECTION.	ALL DUPLEX RECEPTACLES WITH THE "U" GROUND TERMINAL ON TOP. UNLESS NOTED OTHERWISE OR AS REQUIRED BY OWNER/ARCHITECT.
AC UNITS SHALL BE TRANE, OR EQUAL FROM CARRIER, YORK, BRYANT OR RUDD. AIR BALANCE:	<b>G6</b> EQUIPMENT LAYOUT IS BASED ON SQUARE D AND/OR SIEMENS, OTHER MANUFACTURERS SU AS GE MAY HAVE LARGER DIMENSIONS. IT IS THE RESPONSIBILITY OF THE ELECTRICAL
ADJUST SYSTEM TO ACHIEVE AIR QUANTITIES SHOWN, THEN ADJUST VOLUMES TO PROVIDE CONSTANT TEMPERATURE (+ 2 F) THROUGHOUT THE ZONE. SUBMIT REPORT (NEBB OR AABC FORMAT) SHOWING CFM EACH SUPPLY, EXHAUST AND RETURN AIR	CONTRACTOR TO PROVIDE EQUIPMMENT WITH SIMILAR DIMENSIONS THAT WOULD FIT IN THE SPACE NOTED.
GRILL AND ACTUAL ROOM TEMPERATURES VS SETPOINTS. INCLUDE OUTSIDE AIR TEMPERATURE, A/C UNIT SUPPLY AND RETURN AIR TEMP, SUPPLY FAN AMPS., RPM AND TOTAL CFM. CALIBRATE ALL THERMOSTATS. RETURN TO PROJECT @ 1 & 3-MONTH INTERVALS AFTER COMPLETION TO MAKE BALANCE ADJUSTMENTS IN RESPONSE TO OWNER'S PERCEIVED COMFORT.	<b>G7</b> VERIFY LOCATION OF ALL OUTLETS (POWER & COMMUNICATION) WITH OWNER/ARCHITECT PRI TO ROUGH-IN. OWNER RESERVES THE RIGHT TO MOVE ANY OUTLETS 5 FT. IN ANY DIRECTION PRIOR TO ROUGH-IN. ALL RECEPTACLES WITHIN 6 FEET OF ANY WET AREA (EXAMPLE: SINK
WARRANTY: FIVE(5) WARRANTY, PARTS ONLY, ON COMPRESSORS.	DISHWASHER, ETC.) SHALL HAVE GROUND FAULT PROTECTION, WHETHER SPECIFICALLY INDICATED OR NOT ON DRAWINGS.
CONTROLS: ELECTRICAL SYSTEM, INCLUDING REQUIRED WIRING. USE PLENUM RATED CABLING INDOORS, CONDUIT OUTDOORS. THERMOSTATS	MOUNTING HEIGHTS OF ALL OUTLETS (RECEPTACLES, SWITCHES, TELEPHONE, DATA, ETC.) IN AREAS WITH COUNTERTOP SHALL BE VERIFIED W/ ARCHITECT/OWNER. GENERALLY ALL OUTLE ARE TO BE MOUNTED ABOVE COUNTERTOP EXCEPT TELEPHONE, DATA, AND OUTLETS FOR
SHALL BE NON-PROGRAMMABLE, AUTOMATIC CHANGEOVER. SEQUENCE OF CONTROL FOR A/C COOLING - FAN RUNS CONTINUOUSLY, COMPRESSOR(S) AND HEATING UNIT ARE SEQUENCED BY ZONE THERMOSTAT. FOR RTUS, INSTALL DUCT SMOKE STATS( PER DIVISION 16) THAT SHUT DOWN UNIT WHEN ACTIVATED BY PRODUCTS OF COMBUSTION	DISPOSERS, UNDERCOUNTER DISHWASHER, UNDERCOUNTER REFRIGERATORS ETC. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS. ALL WEATHERPROOF/WET LOCATION AND/OR OUTDOOR RECEPTACLES SHALL HAVE "WEATHERPROOF-WHILE-IN-USE" COVERS (NEC ARTICLE 410-57(b). PROVIDE RACO BELL
DEMOLITION:	RAYNTITE II COVERS OR EQUAL.
DAMAGE TO EXISTING MATERIAL/EQUIPMENT SHALL BE REPAIRED AT NO ADDITIONAL COST TO OWNER. RESUPPORT ANY REMAINING PIPING THAT WAS SUPPORTED BY WALLS BEING REMOVED. GIVE DEMO'D EQUIPMENT TO OWNER OR DISPOSE OF SUCH IF THE OWNER DOES NOT WANT IT.	<b>G8</b> SWITCHES/STARTERS FOR MECH AND OTHER EQUIPMENT: LOCATION OF DISCONNECT SWITCHE STARTERS, CONTROL STATIONS ETC ARE SHOWN DIAGRAMMATICALLY ON THE DWGS. E.C. SHA INSTALL SUCH DEVICES IN COMPLIANCE WITH CODE CLEARANCE REQUIREMENTS. REMOVE AN RE-INSTALL DEVICES THAT ARE INACCESSIBLE OR WITH INADEQUATE CODE CLEARANCE.
SHOP DRAWINGS: SUBMIT ON ALL FIXTURES AND TRIM.	G9 HVAC EQUIPMENT: OVERCURRENT DEVICES, DISCONNECT SWITCHES, CONDUIT/WIRE ARE SELE
ACCESS DOORS: MILCOR OR EQUAL AS REQUIRED FOR ACCESS TO ALL VALVES, CONTROLS, WATER HAMMER ARRESTORS, OR OTHER DEVICES REQUIRING ATTENTION. DOORS SHALL MATCH WALL OR CEILING RATING.ARCHITECT MUST APPROVE LOCATION AND APPEARANCE OF ALL ACCESS DOORS.	TED BASED ON EQUIPMENT SHOWN ON MECH. DRAWINGS. FIELD VERIFY RATINGS OF EQUIP. SUPPLIED BY HVAC CONTRACTOR AND REVISE ELECT. AS REQUIRED TO MATCH ACTUAL EQUI SUPPLIED BY MECH. CONTRACTOR.
<b>PIPING:</b> DOMESTIC HOT/COLD WATER — ASTM B88 TYPE L COPPER. SYSTEM SHALL BE DRAINABLE. WASTE AND VENT — DWV PVC	G10 PROVIDE HOUSE KEEPING CONCRETE PAD (MIN. 4" HIGH) FOR ALL FLOOR MNTD ELECTRICA EQIP. INCLUDING TRANSFORMERS, SWITCHBOARDS,M.C.C., SWITCHES ETC. PROVIDE ALL REQU AND NECESSARY UNISTRUT SUPPORT FOR ALL INDOOR/OUTDOOR ELECTRICAL EQUIPMENT.
FLUSH AND STERILE WATER PIPE – FOR PIPE 1" OR LARGER SUPPORT PIPING EVERY 10'-0"; FOR PIPING 3/4" OR SMALLER SUPPORT EVERY 6'-0". WITH COPPER PIPE USE COPPER HANGRERS OR TAPE AT CONTACT POINT. INSULATION:	G11 FIRE WALL: DO NOT INSTALL RECEPTACLES, TELEPHONE, DATA OUTLETS ETC. BACK-TO-BACK IN FIRE/SMOKE PARTITIONS OR WITHIN THE SAME SPACE ENCLOSED BY TWO ADJACENT STU SAME RESTRICTION APPLIES TO ALL CORRIDOR WALLS.
ALL INSULATION SHALL HAVE FLAME SPREAD LESS THAN 25, SMOKE DEVELOPED LESS THAN 50 AS PER ASTM E84, NFPA 255, UL 273. GALVANIZED SHEET METAL SHIELDS AT PIPE HANGERS FOR PIPES 1–1/2" OR LARGER.	G12 EACH HOMERUN CIRCUIT SHALL BE 2 #10 THWN, 1 #12 GROUND, 1/2" CONDUIT TO NEW
FOR DOMESTIC COLD WATER IN EXTERIOR WALLS, PLENUM ABOVE BLDG INSULATION OR OTHER AREAS SUBJECT TO FREEZING - USE 1" FIBER GLASS. FOR DOMESTIC HOT WATER - USE 1" FIBER GLASS W/ ALL SERVICE JAC.	20 AMP./1-POLE BREAKER TYPICAL UNLESS NOTED OTHERWISE IN THE PANEL SCHEDULES. NEW BREAKERS SHALL EXISTING IN STYLE, MAKE AND A.I.C. RATINGS. ELECT. CONTRACTOR MAY USE EXISTING SPARE BREAKERS IF AVAILABLE.
PLUMBING FIXTURES: PROVIDE STOP VALVES; WATER HAMMER ARRESTER OR 18" LONG AIR CHAMBER, TAIL PIECES, P-TRAP W/ CLEANOUT PLUG	
AND GRD JOINT UNIONS @ EVERY FIXTURE. CONFIRM ALL FAUCETS/FITTINGS ARE COMPATIBLE W/ FIXTURES PRIOR TO ORDERING.	
GENERAL NOTE RE PLUMBING FIXTURE WATER USE: FIXTURE SHALL BE CERTIFIED TO MEET THE WATER SAVING PERFORMANCE STANDARDS OF TEXAS CIVIL STATUTES SECTION 337.252 AND SHALL BE LISTED WITH THE STATE AS COMPLYING WITH SUCH.	
ALL FIXTURES SHALL COMPLY WITH THE MORE RESTRICTIVE OF ANSI OR THE FOLLOWING (WHEN TESTED PER ANSI TESTING PROCEDURES): A) MAXIMUM FLOW FROM SINK OR LAVATORY FAUCET OR FAUCET AERATOR SHALL BE 2.20 GALLONS PER MINUTE (GPM) AT A PRESSURE OF 60 PSI. B) MAX VOLUME OF WATER PER FLUSH FROM A TOILET SHALL NOT EXCEED EXCEED 1.60 GALLONS.	THIS AREA LEFT BLANK
GENERAL NOTE RE HANDICAP PLUMBING FIXTURES: FIXTURES SHALL COMPLY WITH REQMNTS OF THE AMERICANS WITH DISABILITIES ACT. PUBLIC LAW 101–336 AND WITH STATE OF TEXAS CIVIL STATUS ARTICLES 7, 601B. FLUSH CONTROLS SHALL BE NO MORE THAN 44" ABOVE FLOOR & ON THE WIDE SIDE OF STALLS. EXPOSED HOT WATER & DRAIN PIPES SHALL BE CONFIGURED TO PROTECT AGAINST CONTACT & SHALL BE INSULATED. DRINKING FOUNTAIN SPOUTS SHALL BE NO	
HIGHER THAN 36"; FLOW SHALL BE PARALLEL TO UNIT FRON & ARC AT LEAST 4" HIGH. LAVATORIES SHALL BE MINIMUM 17" FRONT TO BACK AND SHALL ALLOW MINIMUM 27" HIGH KNEE CLEARANCE.	

#### RAL NOTES (LIGHTING-APPLY TO ALL SHEETS) FER TO ARCH. REFLECTED CLG PLAN FOR EXACT LOCATION OF LIGHTING FIXTURES.

- (ISTING FIXTURES: EXISTG FIXTURES INDICATED TO BE RE-USED SHALL BE CLEANED AND RE-LAMPED. E.C. TO NCE W/APPLICABLE FEDERAL AND STATE LAWS AND LOCAL CODES.
- RAL NOTES AND ELECTRICAL SPECIFICATIONS DE(NFPA 101), TEXAS ACCESSIBILITY STDS.
- QUIREMENTS & BE PERFORMED BY CRAFTMAN SKILLED IN THIS PARTICULAR WORK. ON OF CONSTRUCTION.

- CESS PANEL: PROVICE ACCESS PANELS OR DOORS FOR ALL DEVICES REQUIRING ADJUSTMENT. ENUMS: PLENUMS ARE CROWDED AND NOT ALL OBSTACLES ARE INDICATED. ALLOW FOR CIRCUIT OFFSETS & PULL
- DXES NOT INDICATED ON DRAWINGS.
- ONDUIT PRIOR TO CEILING/WALL/PARTITION COVER-UP.
- PRESENTÂTIVE MAY DO SO.
- OR EXACT LOCATION OF FIXTURES AND WALL MOUNTED DEVICES.
- DMPLETE SYSTEM: ALL SYSTEMS SHALL BE COMPLETE AND WORKING AT COMPLETION OF CONSTRUCTION.
- JARANTEE: GUARANTEE ALL WORK AND MATERIALS FURNISHED UNDER THIS CONTRACT FOR A PERIOD OF ONE YEAR ROM DATE OF ACCEPTANCE BY OWNER AND ARCHITECT.
- OWER, FIRE ALARM, TELEPHONE AND OTHER COMMUNICATION CONDUITS). PULL WIRE REQD IN ALL SPARE CONDUITS.
- RE: ( TRIANGLE, AMERICAN INSULATED CABLE CO., OR CABLEC) WIRING SHALL BE IN CONDUIT. P OF CEILING TILES.
- PARATED BY HORIZONTAL DISTANCE OF NOT LESS THAN 24 INCHES (1991 B.B.C. 4304(f).
- CKING-TYPE RECEPTACLES) SHALL BE NOT LESS THAN 115 GRAMS (4 OZ).
- OVER. PROVIDE RACO, STEEL CITY OR APPLETON.
- /4" MINIMUM, WHITE LETTER ON BLACK BACKGROUND), EXAMPLE: NEL "XXX" 225 AMPS 20/240V, 1-PHASE, 3-WIRE
- EDER SIZE: 3# 4/0 THWN, 1-#4 G, 2"C. ED FROM PANEL "XXX"
- IERE IS NO SPARES/SPACES IN SOME PANELS.
- RECTED BY OWNER. ALL PREMIUM TIME SHALL BE INCLUDED IN CONTRACTOR'S BID.
- DB SITE VISIT: CONTRACTOR SHALL VISIT THE JOB SITE & GET FAMILIAR W/ ALL EXISTING CONDITIONS THAT WILL DUE TO FAILURE TO INFORM HIMSELF OF ALL FACTORS AFFECTING HIS WORK.
- DIRECTED BY THE OWNER.
- ECTRICAL CODE.
- RING STUBBED TO A J-BOX ABOVE ACCESSIBLE CEILING FOR INSTALLATION OF WIRING BY OTHERS.

S SHALL BE COLOR	CODED A
480Y/277V	208Y/120
3-PHASE, 4W	3-PHASE,
BROWN	BLACK
PURPLE	RED
YELLOW	BLUE
GRAY OR WHITE	WHITE
GREEN	GREEN
TIME DESIGNATED B	
	480Y/277V 3-PHASE, 4W BROWN PURPLE YELLOW GRAY OR WHITE GREEN

HOUT DELAY.

(AMINE CONDITION OF EXISTING BALLASTS, REPLACE IF NOISY/OR INOPERABLE. ALL BALLASTS DATED BEFORE 1976 PRESUMED TO CONTAIN PCB AND SHALL BE REMOVED BY E.C. DISPOSE OF SUCH BALLASTS IN STRICT COMP-XTURES NOT INDICATED TO BE REUSED SHALL BE DELIVERED TO A LOCATION TO BE SPECIFIED BY THE OWNER.

RMITS AND CODES: OBTAIN AND PAY FOR ALL NECESSARY PERMITS. COMPLY W/ALL NATIONAL, STATE & MUNICIPAL WS, CODES & ORDINANCES RELATING TO BUILDING & PUBLIC SAFETY. PROVIDE ANY REQD TEMPORARY POWER & ILITIES. APPLICABLE CODES INCLUDE BUT ARE NOT LIMITED TO: STANDARD BUILDING CODE, NEC 1996, LIFE SAFETY

ATERIAL: ALL MATERIALS SHALL BE NEW, MADE IN USA & UL LISTED. MATERIAL INSTALLATION SHALL COMPLY W/ NEC UIPMENT PROTECTION: PROTECT EQUIP. & WORK FROM DAMAGE DURING HANDLING & INSTALLATION UNTIL COMPLE-

ROUNDING: ALL CONDUIT WORK & ELECT. EQUIPMENT SHALL BE EFFECTIVELY AND PERMANENTLY GROUNDED IN CORDANCE W/ NEC. PROVIDE GREEN EQUIP.GROUNDING CONDUCTOR W/ ALL POWER, RECEPT., & LIGHTING CIRCUITS. LATION W/OTHER TRADES: COOPERATE WITH OTHER TRADES TO ACCOMPLISH THE FULL INTENT OF THE DOCUMENTS.

ASTER, GYPSUM BOARD OR OTHER NON-ACCESSABLE CEILINGS: MINIMIZE CUTTING & PATCHING BY INSTALLING

DRK IN OCCUPIED AREAS: WORK IN, ABOVE, BELOW OR NEAR OCCUPIED AREAS SHALL BE @ OWNER'S CONVENIENCE MAY BE DURING EVENINGS OR WEEKENDS. SCHEDULE ALL REQUIRED POWER OUTAGES A MINIMUM OF 7 DAYS IN ANCE W/ FACILITY ENGINEER. DO NOT TURN OFF ANY POWER SOURCE. ONLY FACILITY ENGR OR HIS AUTHORIZED

AWINGS: DRAWINGS ARE DIAGRAMMATIC. CONFIRM DIMENSIONS & LOCATIONS IN THE FIELD. IF CONFLICTING DIMEN-ONS ARE SHOWN, USE LARGER DIMENSIONS AND VERIFY W/ ARCHITECT. SEE ARCHITECTURAL PLANS & ELEVATIONS

EAN UP: I) PROVIDE FOR ISOLATION OF WORK AREAS AND DAILY REMOVAL OF DEBRIS. B) CLEAN ALL EQUIPMENT & XTURE LENSES. C) REPLACE ALL BURNED OUT LAMPS. D) TOUCH UP WITH PAINT WHERE REQUIRED.

NELBOARD DIRECTORIES: IDENTIFY EACH CIRCUIT W/LOAD AND LOCATIONS AND INDICATE W/ TYPED DIRECTORIES.

NDUIT: SHALL BE RIGID GALVANIZED STEEL (RGS) OR ELECTRICAL METALLIC TUBING (EMT) AS MANUFACTURED BY LIED, TRIANGLE OR WHEATLAND. INDOOR ABOVE GRADE: EMT OR RGS; OUT DOOR ABOVE GRADE: RGS, IMC OR RIGID UMINUM; BELOW GRADE: SCH. 40 PVC OR RGS; UNDER SLAB: SCH 80 PVC. PROVIDE PULL WIRE IN ALL CONDUITS

MINIMUM SIZE #12 EXCEPT CONTROLS MAY BE #14. B.) TYPE THHN/THWN STRANDED COPPER THERMOPLASTIC IN ŔY LOCATIONS. C.) TYPE THWN IN WET LOCATIONS (OUTDÓOR, UNDERGROUND, OR ON ROOF, ETC.). D.) ALL WIRE HALL BE 98% CONDUCTIVITY COPPER , 600 VOLT. NO ALUMINUM WIRES. E.) WIRE #10 AND SMALLER MAY BE SOLID STRANDED, #8 OR LARGER SHALL BE STRANDED. F.) COMMUNICATION WIRE ( FIRE ALARM, TELEPHONE, DATA, ETC): ENUM RATED LOW-SMOKE CABLE MAY BE USED IN LÍEU OF WIRE/CONDUIT TYPE INSTALLATION. ALL PLÉNUM RATED BLE SHALL BE PROPERLY SUPPORTED BY CABLE TIES, CLIPS ETC. DO NOT LAY COMMUNICATION CABLE DIRECTLY ON

RING DEVICES: FURNISH & INSTALL WHERE INDICATED ON DRAWINGS. STYLE AND COLOR TO BE SELECTED BY CHITECT. ALL RECEPTACLES SHALL BE "SPEC GRADE" TYPE. ISOLATED POWER RECEPTACLES(IF USED) TO BE ORANGE LOR, W/CIRCUIT NUMBER & PANEL NAME ENGRAVED ON FACE PLATE. COVER PLATES: HIGH ABUSE NYLON OR AINLESS STEEL. ALL ELECTRICAL BOXES ON OPPOSITE SIDES OF CORRIDOR WALLS AND FIREWALLS MUST BE

STING & CERTIFICATION: CONTRACTOR SHALL DELIVER A WRITTEN REPORT CERTIFYING THAT EVERY RECEPTACLE HAS EN TESTED AS FOLLOWS & FOUND ACCEPTABLE:(a) THE PHYSICAL INTEGRITY OF EACH RECEPTACLE SHALL BE CONF-IED BY VISUAL INSPECTION. (b) THE CONTINUITY OF THE GROUNDING CIRCUIT IN EACH ELECT. RECEPTACLE SHALL VERIFIED. (c) CORRECT POLARITY OF THE HOT & NEUTRAL CONNECTIONS IN EACH ELECT. RECEPTACLE SHALL BE NFIRMED. (d) THE RETENTION FORCE OF THE GROUNDING BLADE OF EACH ELECTRICAL RECEPTACLE (EXCEPT

UTLET BOXES: SHALL BE GALV. STEEL SUITABLE FOR LOCATION. CEILING OUTLET BOXES SHALL BE 4" OCTAGON. WALL JTLET BOXES SHALL BE PROPER DESIGN TO ACCOMODATE THE DEVICES REQUIRED - 4 INCH SQUARE W/ RAISED

ENTIFICATION: LABEL ALL JUNCTION & PULL BOXES W/PANELS & CIRCUIT NUMBERS. LABEL ALL HOMERUN AND MAJOR NDUIT W/ HOME PANELS/SWITCHES ETC. AT EVERY 10-FT INTERVAL. MARK ALL BRANCH CONDUIT WITH CIRCUIT IMBERS AT EACH SURFACE MNTD PANEL LOCATION. FOR RECESSED PANELS, MARK BRANCH CONDUIT IN CEILING ENUM JUST ABOVE PANELS. ALL PANELS SHALL BE IDENTIFIED WITH 4 ROWS OF TEXT ( LETTER HEIGHT SHALL BE.

ITCHGEAR, TRANSFORMERS, PANELBOARDS: SHALL BE SQUARE D, WESTINGHOUSE/CUTLER HAMMER, SIEMENS/ITE OR MATCH EXISTING WHERE REQUIRED BY OWNER. ALL EQUIPMENT SHALL HAVE COPPER BUSES OR WINDINGS. LOAD-INTER TYPE PANELBOARDS ARE NOT ACCEPTABLE AND SHALL NOT BE USED. ALL EQUIPMENT SHALL BE LABELED. FOR ACH PANEL: FURNISH & INSTALL ONE SPARE 3/4" CONDUIT FOR EVERY 6 SPARES &/OR SPACES IN THE PANEL. CH SPARE CONDUIT SHALL BE INSTALLED W/ PULL STRING STUBBED TO J—BOX LOCATED IN ACCESSIBLE CEILING/ ENUM SPACE. INSTALL A MINIMUM OF ONE SPARE 3/4" CONDUIT FOR EVERY PANEL SHOWN ON PLANS, EVEN IF

ECTRICAL SERVICE OUTAGE: SERVICE TO THE EXISTING BLDG SHALL BE MAINTAINED DURING NORMAL WORKING HOURS. IY SERVICE OUTAGE REQUIRED TO COMPLETE THE WORK SHALL BE THE TIME & FOR THE LENGTH OF TIME AS

CORD DRAWINGS: MAINTAIN A CONTINUOUS RECORD DURING CONSTRUCTION OF ALL CHANGES IN THE WORK FROM ACCOMPANYING DRAWINGS. UPON COMPLETION OF WORK, PURCHASE A SET OF MYLAR REPRODUCIBLES & MAKE RRECTIONS AS REQUIRED TO REFLECT THE ELECTRICAL SYSTEMS AS INSTALLED. SUBMIT THREE PRINTS OF THE ACINGS FOR APPROVAL. MAKE CORRECTIONS TO TRACINGS AS DIRECTED & DELIVER MYLAR TRACINGS TO OWNER.

FECT HIS WORK. NO ADDITIONAL COMPENSATE WILL BE ALLOWED FOR WORK OR ITEMS OMITTED FROM CONTRACTOR'S

XISTING FACILITIES: CONTRACTOR SHALL BE RESPONSIBLE FOR LOSS OR DAMAGE TO EXISTING FACILITIES CAUSED BY WORKMEN, AND SHALL BE RESPONSIBLE FOR RAPAIRING OR REPLACING SUCH DAMAGE OR LOSS. CONTRACTOR IALL ERECT TEMPORARY BARRICADES, W/ NECESSARY SAFETY DEVICES, AS REQUIRED TO PROTECT PERSONNEL & THE NERAL PUBLIC FROM INJURY, REMOVING ALL SUCH TEMPORARY PROTECTION UPON COMPLETION OF THE WORK. LVAGE MATERIALS SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE DELIVERED TO SUCH DESTINATION

HERE EXISTING CONSTRUCTION IS REMOVED TO PROVIDE WORKING & EXTENSION ACCESS TO EXISTING UTILITIES, ONTRACTOR SHALL REMOVE CEILING GRID, TILES, DOORS, PIPING, AC DUCTWORK & EQUIPMENT, ETC TO PROVIDE THIS CCESS & SHALL REINSTATE SAME UPON COMPLETION OF WORK IN AREAS AFFECTED.

RE STOPS & PENETRATION STOPS: ALL PENETRATIONS THROUGH FIRE RATED FLOORS AND WALLS SHALL BE SEALED TH CHASE—FOAM, CTC PR—855 FIRE RESISTANT FOAM SEALANT, TO PREVENT THE SPREAD OF SMOKE, FIRE, TOXIC ASES OR WATER THROUGH THE PENETRATION EITHER BEFORE, DURING OR AFTER A FIRE. THE FIRE RATING OF THE NETRATION SEAL SHALL BE AT LEAST THAT OF THE FLOOR OR WALL INTO WHICH IT IS INSTALLED, SO THAT THE IGINAL FIRE RATING OF THE FLOOR OR WALL IS MAINTAINED AS REQUIRED BY ARTICLE 300–21 OF THE NATIONAL

EPHONE, DATA SYSTEMS: PROVIDE & INSTALL WALL OUTLET BOXES, COVER PLATES AND 3/4' CONDUIT AND PULL.

LOR CODE: CONDUCTORS SHALL BE COLOR CODED AS FOLLOWS (FOLLOW CITY OF OAKRIDGE COLOR CODES IF APPLICABLE)-240/120V, 3-PHASE, 4W ′/120V 120/240V (DELTA HIGH LEG SYSTEM) <u>1–PH., 3W</u> HASE, 4W ACK BLACK BLACK ORANGE(HIGH LEG) RED BLUE \_ \_

WHITE WHITE GREEN GREEN REEN NAL INSPECTION: AT THE TIME DESIGNATED BY ARCHITECT, THE ENTIRE SYSTEM SHALL BE INSPECTED BY ARCHITECT THE ENGINEER. CONTRACTOR OR HIS REPRESENTATIVE SHALL BE PRESENT AT THIS INSPECTION. CONTRACTOR SHALL ROVIDE A SET OF AS-BUILT DRAWINGS AND MYLAR REPRODUCIBLES TO OWNER/ARCH. AFTER THE INSPECTION ITEMS OTED AS ELEDING CHANGES OR CORRECTION TO MEET CONTRACT DOCUMENT SHALL BE CORRECTED OR CHANGED

<ul> <li>M. S. ESIERE ENGINEERS</li> <li>M. S. ESIERE # F-11441</li> <li>REGISTERED # F-11441</li> <li>MECHANICAL ELECTRICAL PLUMBING</li> <li>435 FM 1092, # B1-136, STAFFORD</li> <li>TX 77477</li> <li>(B32) 987-1928.E-MAIL: msemep@gmail.com</li> </ul>
Written dimensions on these drawings shall have precedence over scale dimensions. Contractor shall verify and be responsible for all dimensions and conditions on the job and this office must be notified of any variation from the dimensions and conditions shown by these drawings.
MOC (Oak Ridge) Phase 2 of 2 27312 Spectrum Way Oak Ridge, TX 77385
MAY 31, 2015
DATE ISSUED: SHEET: MEP

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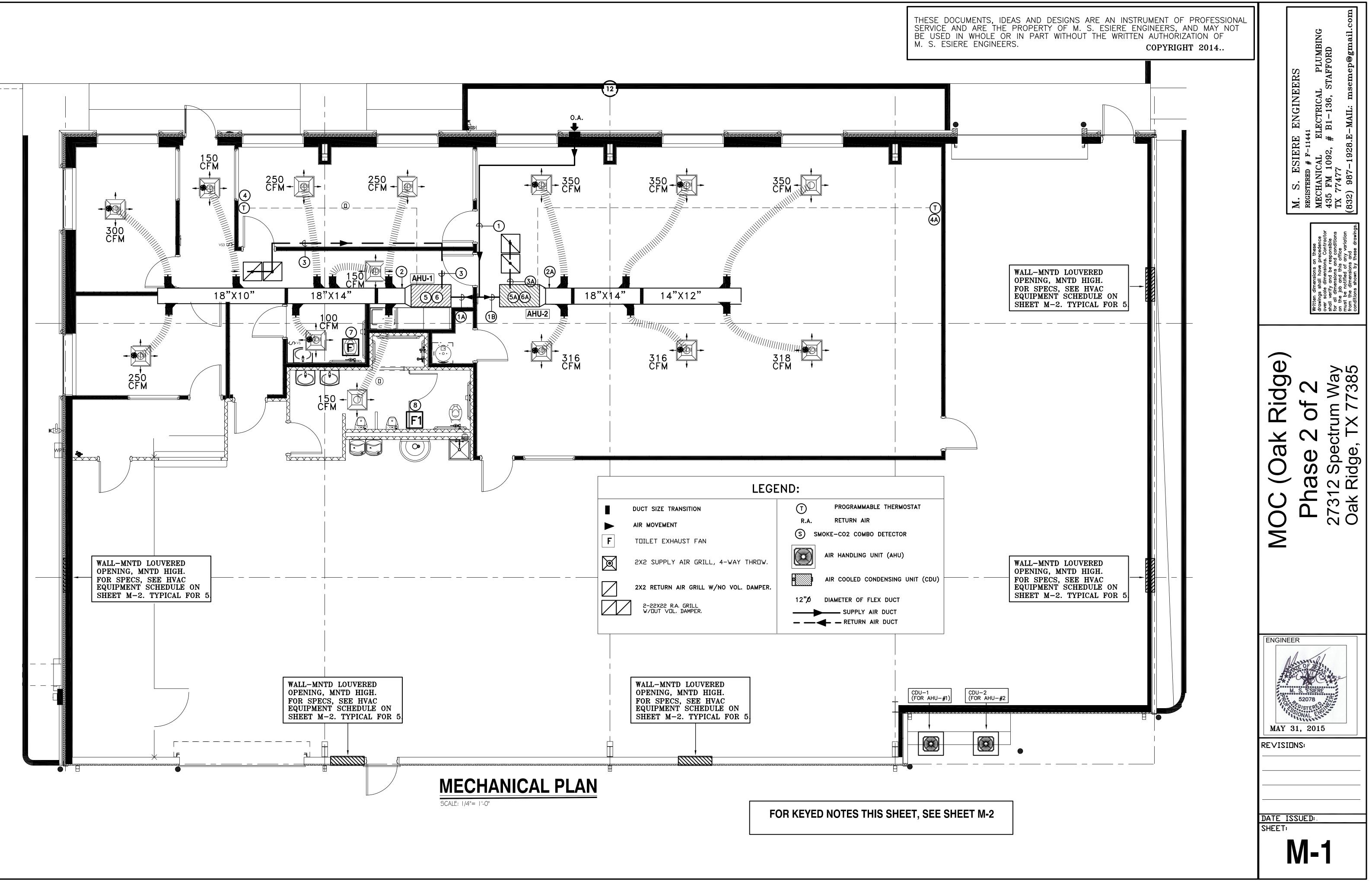
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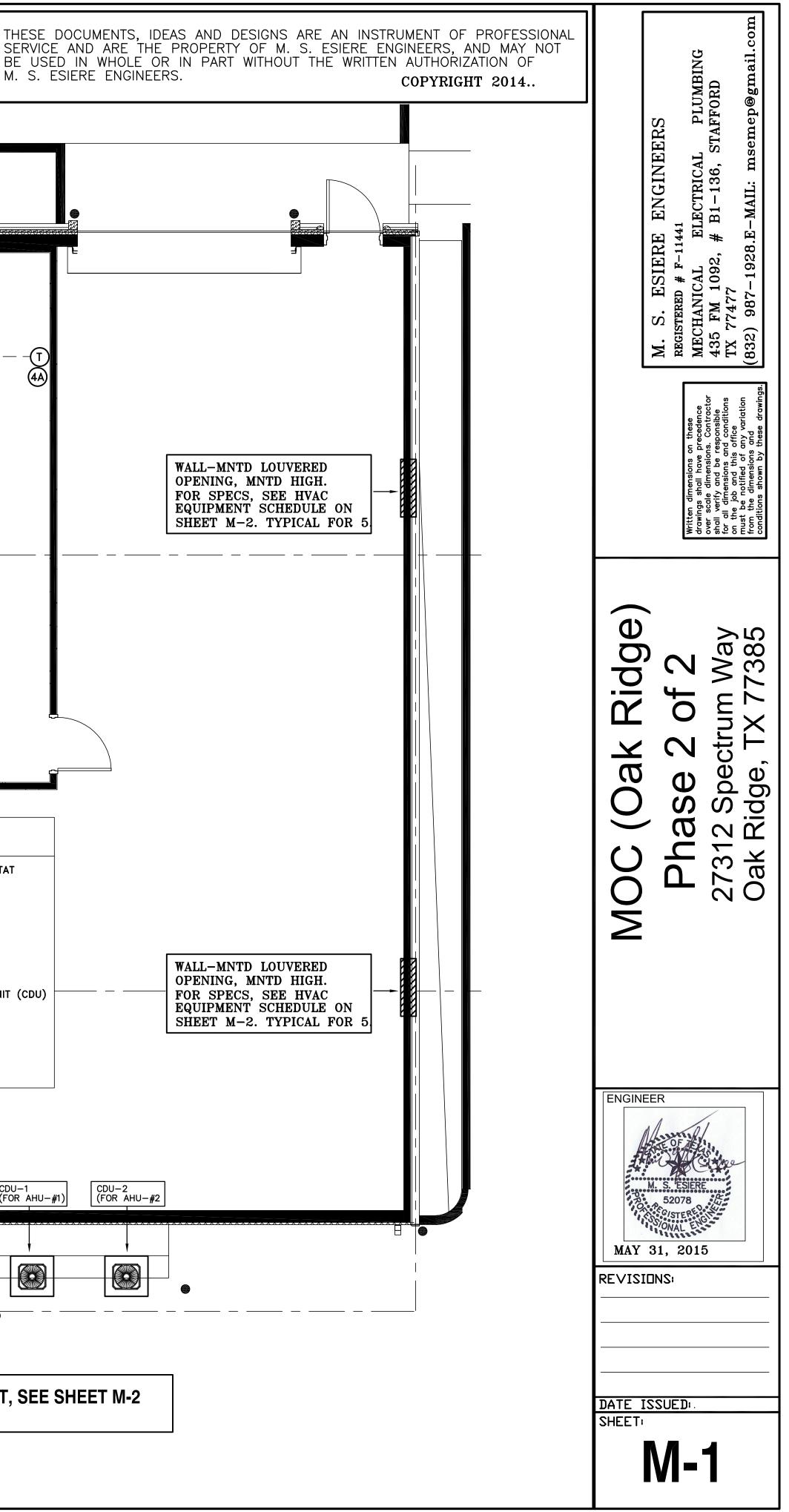
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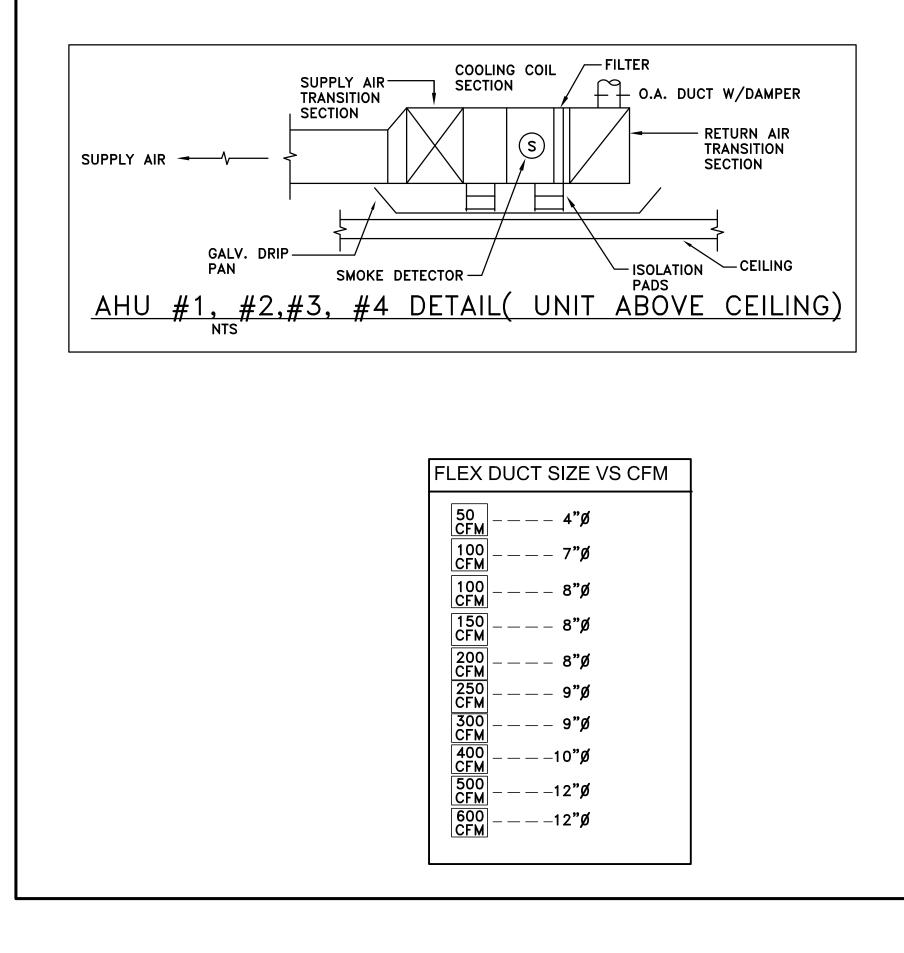
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MARK	DESCRIPTION	ELECT
AHU-#1 OFFICE AREAS	4-TON, FAN COIL UNIT, 48.0 MBTUH TOTAL COOLING, 37.1 MBTUH SENSIBLE, 1,600 CFM SUPPLY AIR, 200 CFM O.A., STD MOTOR & SHEAVE; LENNOX; ESP=0.75", MCA=46.9, MAX FUSE=50A; ESP=0.60", 11.25 KW ELECT HEAT. HIGH EFFICIENCY (SEER=13 MIN), UNIT IS HORIZONTAL SUPPLY, HORIZONTAL RETURN.	208–230,
CDU-#1 OFFICE AREAS	4-TON AIR-COOLED CONDENSING UNIT, SINGLE COMPRESSOR, LRA=140 RLA=24.4, FAN FLA=1.4, MCA=31.9, MAX FUSE=50A LENNOX, HIGH EFFICIENCY SEER=13 (MINIMUM)	208–230/
AHU-#2 TRAINING ROOM AREA	5-TON, FAN COIL UNIT, 60 MBTUH GROSS COOLING, 48.1 MBTUH SENSIBLE, 2,000 CFM SUPPLY AIR, 300 CFM O.A., 1.0 STD MOTOR, LENNOX, HIGH EFFICIENCY (SEER 13 MIN) ESP=1.0", MCA= 53, MAX FUSE=60A., 14.96 KW ELECTRIC HEAT; UNIT IS HORIZONTAL SUPPLY AND HORIZONTAL RETURN.	208–230,
CDU-#2 TRAINING ROOM AREA	5.0-TON AIR-COOLED ONDENSING UNIT, SINGLE COMPRESSOR, LRA=172.0, RLA= 27.1, FAN FLA=3.1, MCA=19.9, MAX FUSE= 30A LENNOX, HIGH EFFFICIENCY (SEER=13 MIN).	208–230,
LOUVERS FOR WAREHOUSE AREA	LOUVERS SHALL BE BEST MODEL BL400 OR EQUAL; 36"X36", EXTRUDED ALUMINUM, STATIONARY, 4" LOUVER DEPTH, 45-DEGREE BLADE ANGLE, MILL FINISH.	-
F	CEILING MOUNTED EXHAUST FAN, 80 CFM, 2.5 SONES, FLA=0.75, 6" ROUND EXHAUST DUCT W/BACK DRAFT DAMPER, INSTALL APPROVED ROOF CAP.	120/1/6
F1	CEILING MOUNTED EXHAUST FAN, 150 CFM, 2.5 SONES, FLA=0.91, 7" ROUND EXHAUST DUCT W/BACK DRAFT DAMPER, INSTALL APPROVED ROOF CAP.	120/1/6

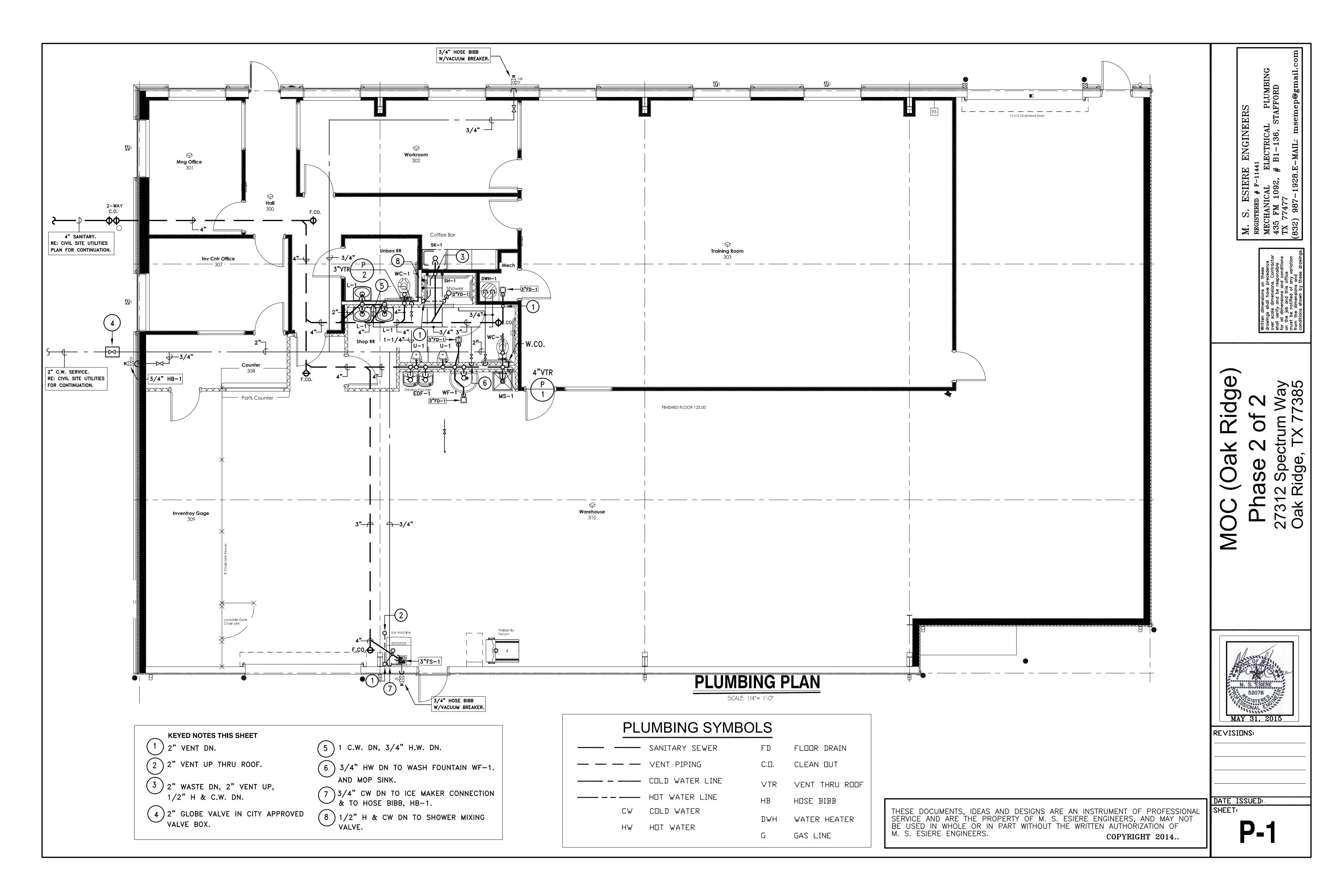


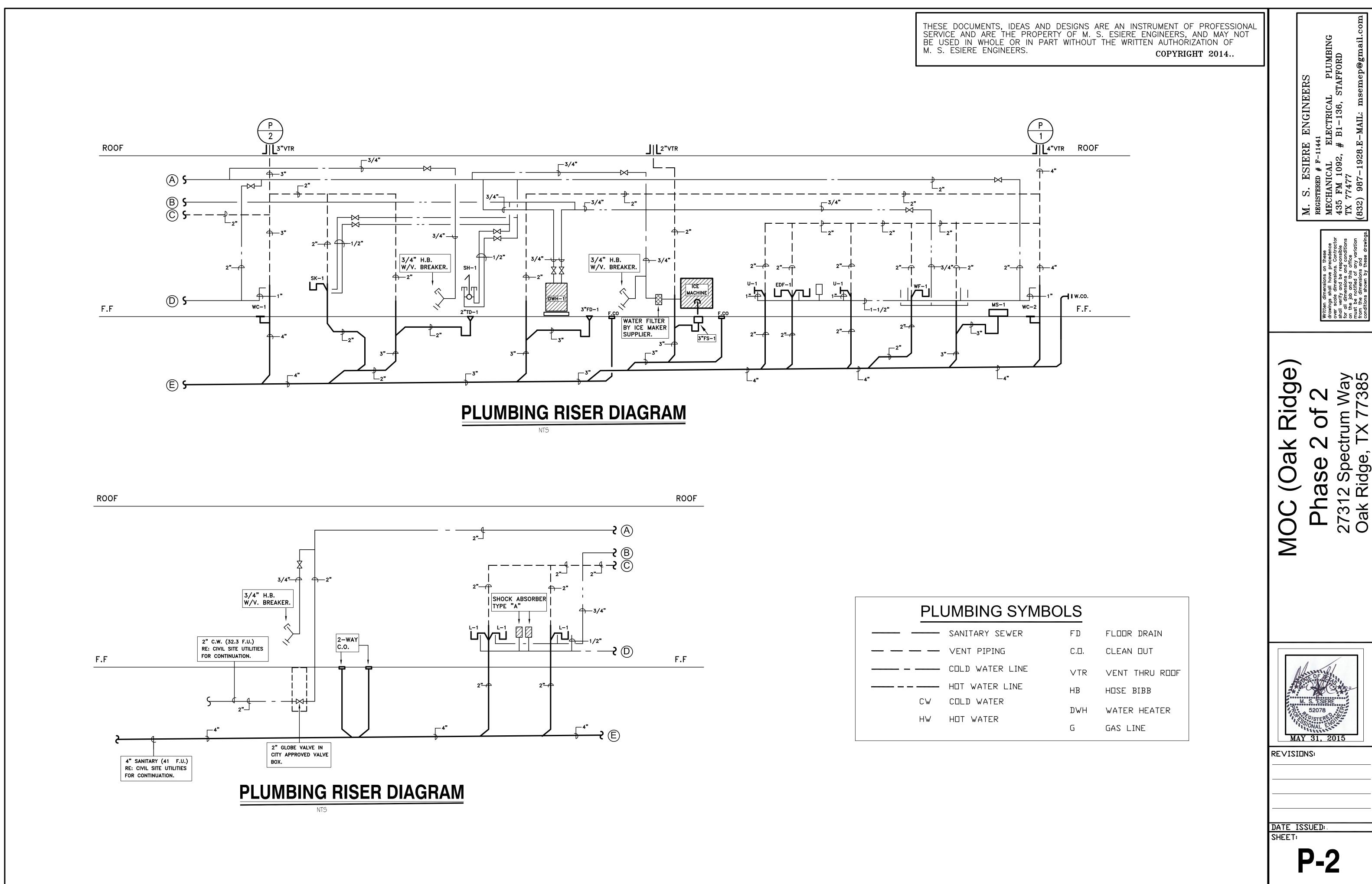
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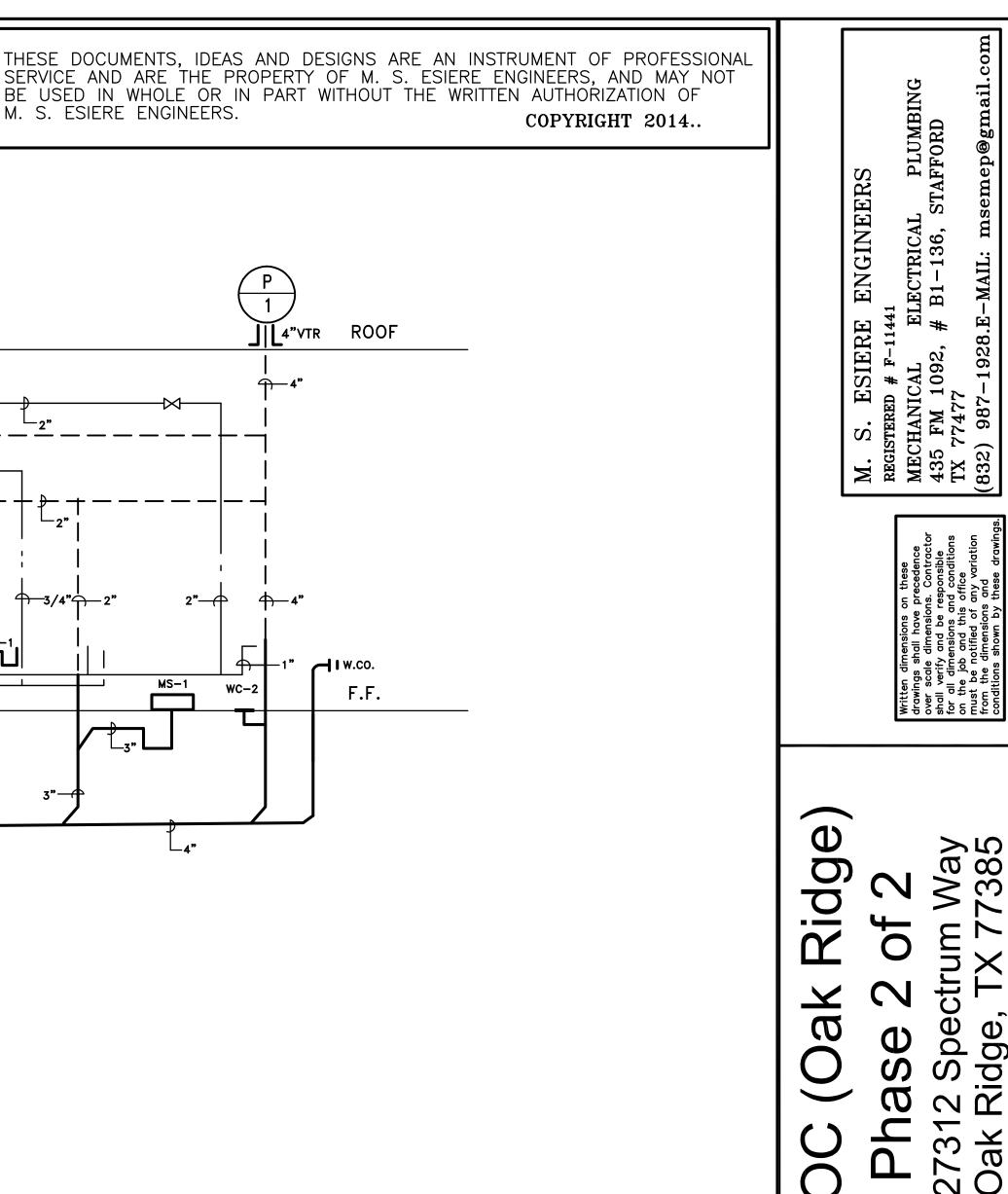
	KEYED NOTES FOR AHU-1, SHEET M-1:
1	12"X10" OUTSIDE AIR DUCT FROM WALL LOUVERED OPENING W/ MOTORIZED VOLUME DAMPER SET AT 500 CFM. DAMPER SHALL AUTOMATICALLY SHUT WHEN THE SYSTEM OR SPACE IS NOT IN USE. VENTILATION OUTDOOR AIR DAMPERS SHALL BE CAPABLE OF AUTOMATICALLY SHUTTING OFF DURING PREOCCUPANCY BUILDING WARM-UP, COOL-DOWN, AND SET BACK, EXCEPT WHEN VENTILATION REDUCES ENERGY COSTS (E.G. NIGHT PURGE) OR WHEN VENTILATION MUST BE SUPPLIED TO MEET CODE REQUIREMENTS.
(1A)	8" ROUND DUCT W/VOLUME DAMPER SET AT 200 CFM.
2	18"X16" HORIZONTAL SUPPLY AIR DUCT W/VOLUME DAMPER SET AT 1,600 CFM.
3	18"X14" HORIZONTAL RETURN AIR DUCT, W/VOLUME DAMPER SET AT 1,400 CFM.
4	SOLID STATE PROGRAMMABLE THERMOSTAT W/ LOCKABLE COVER FOR AHU #6. THERMOSTAT SHALL BE CAPABLE TO SET BACK OR SHUT DOWN THE SYSTEM BASED ON DAY OF WEEK AND TIME OF DAY. FOR ADDITIONAL REQUIREMENT REFER TO IECC SECTION 803.2.3.1.
5	PRIMARY AC CONDENSATE DRAIN : ROUTE FULL SIZE INSULATED AC UNIT CONDENSATE DRAIN FROM AHU-#1 TO CONNECT TO LAVATORY TAIL PIPE DRAIN VIA TEE FITTING IN NEAREST REST ROOM.
6	AUXILLIARY AC CONDENSATE DRAIN: ROUTE 1" INSULATED AUXILLIARY AC CONDENSATE DRAIN TO SPILL OVER LAV IN NEAREST REST ROOM CEILING. PROVIDE CEILING ESCUTCHEON PLATE.
7	CEILING MOUNTED EXHAUST FAN, 50 CFM, 2.5 SONES, FLA=0.75; BROAN OR EQUAL. RUN 4" ROUND EXHAUST DUCT W/BACK DRAFT DAMPER UP TO RAIN CAP ON THE ROOF. INSTALL BIRD SCREEN AND MANUFACTURER'S RECOMMENDED ROOF CAP. CEILING MOUNTED EXHAUST FAN, 150 CFM, 2.5 SONES, FLA=0.95; BROAN OR EQUAL.
U	RUN 8" ROUND EXHAUST DUCT W/BACK DRAFT DAMPER UP TO RAIN CAP ON THE ROOF. INSTALL BIRD SCREEN AND MANUFACTURER'S RECOMMENDED ROOF CAP.
	RUN 8" ROUND EXHAUST DUCT W/BACK DRAFT DAMPER UP TO RAIN CAP ON THE ROOF. INSTALL BIRD SCREEN AND MANUFACTURER'S RECOMMENDED ROOF CAP.
(18)	RUN 8" ROUND EXHAUST DUCT W/BACK DRAFT DAMPER UP TO RAIN CAP ON THE ROOF.
(1B) (2A)	RUN 8" ROUND EXHAUST DUCT W/BACK DRAFT DAMPER UP TO RAIN CAP ON THE ROOF. INSTALL BIRD SCREEN AND MANUFACTURER'S RECOMMENDED ROOF CAP. KEYED NOTES FOR AHU-2, SHEET M-1: 10" ROUND DUCT W/VOLUME DAMPER SET AT 300 CFM. 20"X18" HORIZONTAL SUPPLY AIR DUCT W/VOLUME DAMPER SET
$\sim$	RUN 8" ROUND EXHAUST DUCT W/BACK DRAFT DAMPER UP TO RAIN CAP ON THE ROOF. INSTALL BIRD SCREEN AND MANUFACTURER'S RECOMMENDED ROOF CAP. KEYED NOTES FOR AHU-2, SHEET M-1: 10" ROUND DUCT W/VOLUME DAMPER SET AT 300 CFM.
2A	RUN 8" ROUND EXHAUST DUCT W/BACK DRAFT DAMPER UP TO RAIN CAP ON THE ROOF. INSTALL BIRD SCREEN AND MANUFACTURER'S RECOMMENDED ROOF CAP. KEYED NOTES FOR AHU-2, SHEET M-1: 10" ROUND DUCT W/VOLUME DAMPER SET AT 300 CFM. 20"X18" HORIZONTAL SUPPLY AIR DUCT W/VOLUME DAMPER SET AT 2,000 CFM.
2A 3A	RUN 8" ROUND EXHAUST DUCT W/BACK DRAFT DAMPER UP TO RAIN CAP ON THE ROOF. INSTALL BIRD SCREEN AND MANUFACTURER'S RECOMMENDED ROOF CAP. KEYED NOTES FOR AHU-2, SHEET M-1: 10" ROUND DUCT W/VOLUME DAMPER SET AT 300 CFM. 20"X18" HORIZONTAL SUPPLY AIR DUCT W/VOLUME DAMPER SET AT 2,000 CFM. 18"X16" HORIZONTAL RETURN AIR DUCT, W/VOLUME DAMPER SET AT 1,700 CFM. SOLID STATE PROGRAMMABLE THERMOSTAT W/ LOCKABLE COVER FOR AHU #2. THERMOSTAT SHALL BE CAPABLE TO SET BACK OR SHUT DOWN THE SYSTEM BASED ON DAY OF WEEK AND TIME OF DAY. FOR ADDITIONAL REQUIREMENT

ENERGY CODE - COMPLETION REQUIREMENTS WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION BE PROVIDED TO THE BUILDING OWNER OR THE DESIGNATED REPRESENTATIVE OF THE BUILDING OWNER. RECORD DRAWINGS SHALL INCLUDE AS A MINIMUM THE LOCATION AND PERFORMANCE DATA ON EACH PIECE OF EQUIPMENT, GENERAL CONFIGURATION OF DUCT AND PIPE DISTRIBUTION SYSTEM INCLUDING SIZES, AND THE TERMINAL AIR OR WATER DESIGN FLOW RATES. FOR ADDITIONAL REQUIREMENTS REFER TO - 2009 IECC COMMERCIAL ENERGY CONSERVATION CODE. MANUALS: OPERATING MANUAL AND A MAINTENANCE MANUAL SHALL BE PROVIDED TO THE BUILDING OWNER OR THE DESIGNATED REPRESENTATIVE OF THE BUILDING OWNER WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE. THESE MANUALS SHALL BE IN ACCORDANCE WITH INDUSTRY-ACCEPTED STANDARDS (SEE APPENDIX E) AND INCLUDE, AT A MINIMUM, THE FOLLOWING: (A) SUBMITTAL DATA STATING EQUIPMENT SIZE AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. (B) OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE, EXCEPT EQUIPMENT NOT FURNISHED AS PART OF THE PROJECT. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED. (C) NAMES AND ADDRESSES OF AT LEAST ONE SERVICE AGENCY. (D) HVAC CONTROLS SYSTEM MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRING DIAGRAMS SCHEMATICS, AND CONTROL SEQUENCE DESCRIPTIONS. DESIRED OR FIELD-DETERMINED SET-POINTS SHALL BE PERMANENTLY RECORDED ON CONTROL DRAWINGS AT CONTROL DEVICES OR, FOR DIGITAL SYSTEMS, IN PROGRAMMING COMMENTS. (E) A COMPLETE NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE, INCLUDING SUGGESTED SET-POINTS. SEE 2009 IECC COMMERCIAL ENERGY CONSERVATION CODE. ENERGY CODE - SYSTEM BALANCING CONTRACTOR SHALL ENSURE THAT ALL HVAC SYSTEMS ARE BALANCED IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING STANDARDS (SEE APPENDIX E). WRITTEN BALANCE REPORT SHALL BE PROVIDED TO THE OWNER OR THE DESIGNATED REPRESENTATIVE OF THE BUILDING OWNER FOR HVAC SYSTEMS SERVING ZONES WITH A TOTAL CONDITIONED AREA EXCEEDING 5000 SQ-FT. SEE 2009 IECC COMMERCIAL ENERGY CONSERVATION CODE.

SE DOCUMENTS, IDEAS AND DESIGNS ARE AN INSTRUMENT OF VICE AND ARE THE PROPERTY OF M. S. ESIERE ENGINEERS, A USED IN WHOLE OR IN PART WITHOUT THE WRITTEN AUTHORIZ S. ESIERE ENGINEERS. COPYRIGE FOR THE COMPLETION AND OPERATION OF ALL SYSTEMS IN THIS SECTION OF WORK IN ACCORDANCE WITH ALL APPLICABLE CODES. MECHANICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES. 2. GC TO PROVIDE FRAMED OPENINGS THRU WALLS, ABOVE CEILINGS, COVERING METAL STUDS, FOR FULL RETURN AIR TRANSFER ABOVE THE FURRED-DOWN CEILINGS. 3. ALL MATERIAL AND EQUIPMENT IS TO BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. 4. DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS & REFLECTED CEILING PLANS FOR EXACT LOCATION OF DOORS, WINDOWS, CEILING DIFFUSERS, ETC. 5. ALL PIPING, DUCTS, VENTS, ETC., EXTENDING THROUGH WALLS & ROOF SHALL BE FLASHED & COUNTERFLASHED IN A WATERPROOF MANNER. SEAL ALL PENETRATIONS OF THE FLOOR/CEILING ASSEMBLY AND RATED WALLS WITH FIRE DAMPER, SEALANT MATERIAL APPROVED BY LOCAL CODE. (COLOR TO MATCH EXTERIOR). 6. EXTEND ALL CONDENSATE DRAIN LINES AS INDICATED, ROUTED TO AVOID INTERFERENCE WITH PASSAGEWAYS AND MAINTENANCE. DRAINS FROM AIR HANDLING UNITS SHALL BE TRAPPED. COORDINATE WITH P.C. 7. ALL DUCTWORK INSULATION SHALL BE RUN CONTINUOUSLY	AND MAY NOT ATION OF	M. S. ESIERE ENGINEERS M. S. ESIERE ENGINEERS Mersions on these hall have precedence dimensions. Contractor and bits office ensions and the responsible ensions and the responsible and this office ensions and conditions of any variation dimensions and shown by these drawings.
<ul> <li>THROUGH FLOORS AND PARTITIONS.</li> <li>8. ALL PIPING AND DUCTWORK LOCATIONS SHALL BE COORDINATED W/ WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS, TO AVOID INTERFERENCE.</li> <li>9. LOCATE ALL THERMOSTATS AND SWITCHES 4'-0" ABOVE FINISHED FLOOR. ANY DEVICE REQUIRING A THERMOSTAT FOR CONTROL SHALL BE FURNISHED WITH A THERMOSTAT WHETHER INDICATED ON THE DRAWINGS OR NOT.</li> <li>10. DUCTS SHALL HAVE R-B(MINIMUM) INSULATION. ALL DUCT SYSTEMS ARE TO BE PER SMACNA AND U.L. STANDARDS.</li> <li>11. ALL EQUIPMENT SHALL BE UL LISTED.</li> <li>12. FLEX DUCT IS TO BE INSTALLED WITHOUT SHARP BENDS OR CRIMPS, FLEX IS TO BE PERMANENTLY FASTENED TO ANY SHEETMETAL FITTINGS. MAX. LENGTH 14' PER CODE. NO FLEX DUCT IS TO BE EXPOSED.</li> <li>13. PROVIDE SHEET METAL COLLARS OR EQUAL UNDER DRYWALL WHENEVER GRILLE REGISTERS ARE TO BE INSTALLED.</li> <li>14. THE MECHANICAL CONTRACTOR SHALL PROVIDE REFRIGERANT AND LOW VOLTAGE CONTRACTOR SHALL PROVIDE REFRIGERANT AND LOW VOLTAGE CONTRACTOR. SIZE REFRIGERANT LINES PER MANUFACTURER'S REQUIREMENTS.</li> <li>15. PIPING (INSULATED): REFRIGERANT – SEAMLESS COPPER ACR TUBING WITH SILVER SOLDERED JOINTS. CONDENSATE – SCHEDULE 40 PVC INSULATED AS REQUIRED.</li> <li>16. MECHANICAL CONTRACTOR SHALL BALANCE SYSTEM TO AIR QUANTITIES INDICATED ON PLANS AND PROVIDE OWNERS REPERSENTATIVE WITH COMPLETE BALANCE REPORT. PROVIDE NEW AIR FILTERS FOR EACH UNIT.</li> <li>17. ALL DUCT DIMENSIONS ARE INTERIOR DUCT DIMENSIONS.</li> <li>18. DUCTWORK, DIFFUSERS, REGISTERS, GRILLS AND OTHER ITEMS OF THE AIR HANDLING SYSTEM SHALL NOT HER STEME SOLD FURCES, DIFFUSERS AND LOUVERS WITH ELECTRICAL, ARCHITECTURAL AND PLUMBING WORK.</li> </ul>		MOC (Oak Ridge) Phase 2 of 2 27312 Spectrum Way Oak Ridge, TX 77385
<ol> <li>19. THE DRYER VENT MATERIAL IS TO BE ROUND RIGID SHEETMETAL. THE LENGTH SHALL NOT EXCEED MAXIMUM ALLOWED BY CODE OR MFG. IF MFG. RECOMMENDATIONS ARE FOLLOWED, DRYER MUST BE PROVIDED AT FINAL INSPECTION. NO SCREWS PROTRUDING INTO DUCT, ETC. PER CODE.</li> <li>20. ALL MECHANICAL EQUIPMENT SHALL OPERATE FREE OF ANY OBJECTIONABLE NOISE OR VIBRATION.</li> <li>21. AS REQUIRED BY LOCAL CODES, MECHANICAL CONTRACTOR SHALL PROVIDE U.L. LISTED FIRE DAMPERS WHERE REQUIRED FOR FIRE PROTECTION REQUIREMENTS OF THE HVAC SYSTEM &amp; THE UL ASSEMBLY.</li> <li>22. ON MAKING PIPE CONNECTIONS TO EQUIPMENT, CARE SHOULD BE TAKEN TO ARRANGE PIPES SO AS NOT TO INTERFERE WITH OPENING OF ACCESS DOORS.</li> <li>23. REFRIGERANT PIPING, NOT SHOWN ON PLANS, SHALL BE SIZED &amp; INSTALLED IN ACCORDANCE WITH THE MANUFACTURES RECOMMENDATIONS &amp; INSTALLATION INSTRUCTIONS &amp; PER THE T.E.L.</li> <li>24. ELECTRICAL CONTRACTOR TO PROVIDE ALL HIGH VOLTAGE ELECTRICAL WIRING, CONDUIT, DISCONNECT SWITCHES, FUSES, ECT. TO CONDENSING UNITS AND AIR HANDLERS. ALL FINAL ELECTRICAL CONNECTIONS ARE BY ELECTRICAL CONTRACTOR.</li> <li>25. PROVIDE 5 YEAR WARRANTY ON COMPRESSORS AND 1 YEAR ON ALL OTHER EQUIPMENT.</li> <li>26. VERIFY CLEARANCES BEFORE FABRICATING DUCTWORK AND ORDERING EQUIPMENT.</li> <li>27. MINIMUM SLELE., FOR UNITS SHALL BE 13.0</li> <li>28. CONDENSING UNITS SHALL BE MOUNTED ON CONCRETE PADS.</li> <li>29. DRAWINGS ARE DIAGRAMMATIC AND DO NOT RELEASE THE CONTRACTOR FROM THE RESPONSIBILITY OF INSTALLING THE HVAC SYSTEM PER LOCAL CODE, AND IN EXCELLENT WORKING CONDITION.</li> <li>30. DUCTWORK &amp; PLENUMS SHALL BE SELED IN ACCORDANCE WITH THE MECHANICAL CODE, AND IN EXCELLENT WORKING CONDITION.</li> <li>30. DUCTWORK &amp; PLENUMS SHALL BE SELED IN ACCORDANCE WITH THE MECHANICAL CODE, AND IN EXCELLENT WORKING CONDITION.</li> <li>30. DUCTWORK &amp; PLENUMS SHALL BE SELED IN ACCORDANCE WITH THE MECHANICAL CODE, AND IN EXCELLENT WORKING CONDITION.</li> <li>30. DUCTWORK &amp; PLENUMS SHALL BE SELED IN ACCORDAN</li></ol>		ENGINEER M.S. ESIERE 52078 52078 52078 MAY 31, 2015 REVISIONS: DATE ISSUED: SHEET: MAY ALLOW

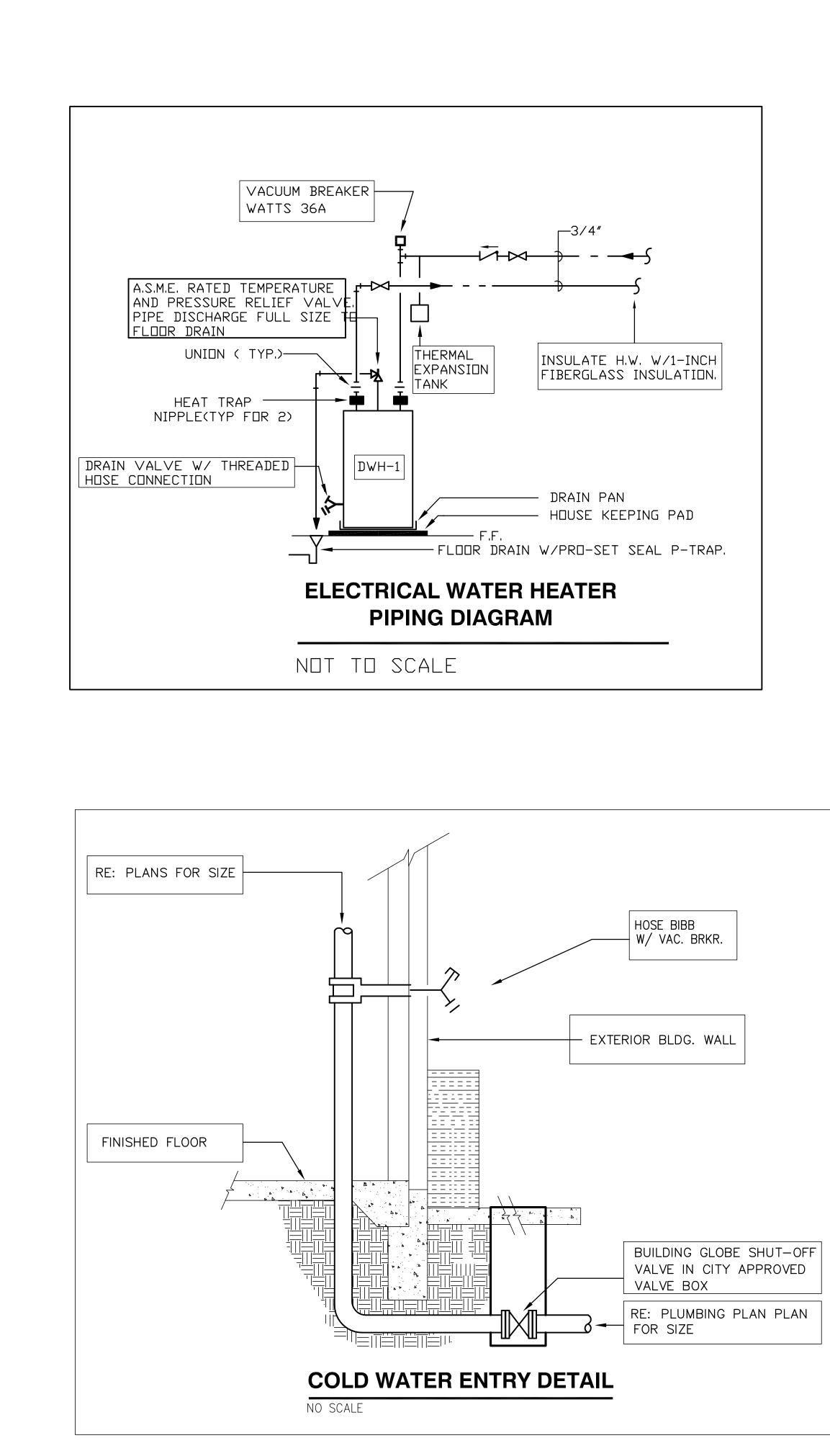






-	SANITARY SEWER	FD	FLOOR
-	VENT PIPING	C.0.	CLEAN
_	COLD WATER LINE	VTR	VENT
-	HOT WATER LINE	HB	HOSE
	COLD WATER	DWH	WATER
	HOT WATER	G	GAS L

	M. S. ESIERE ENGINEERS registered # F-11441	MECHANICAL ELECTRICAL PLUMBING 435 FM 1092, # B1-136, STAFFORD TX 77477	(832) 987–1928.E-MAIL: msemep@gmail.
	Written dimensions on these	written dimensions on these drawings shall have precedence over scale dimensions. Contractor shall verify and be responsible for all dimensions and conditions on the job and this office	must be notified of any variation from the dimensions and conditions shown by these drawings.
MOC (Oak Ridge)	Phase 2 of 2		Oak Ridge, TX 77385
REVISI	M. S. ES 52078 S'ONAL AY 31,	ERE 2015	
DATE 1 SHEET:		2	



		PLUMBING FIXTURE SCHEDULE									ENGINEERS ECTRICAL PLUMBING B1-136, STAFFORD
		PROVIDE THE FOLLOWING SIZE BRANCH CONNECTION TO THE DISTRIBUTION MAIN UNLESS OTHERWISE SPECIFIED. P-TRA									E ENGINEI 1441 ELECTRICAL # B1-136, S
	SYMBOL	DESCRIPTION	CW	HW	SAN.	1	REMARKS	P-TRAP SIZE	SPECIFICATIONS		ING SCTR 1-1
	WC-1	FLOOR MNTD WATER CLOSET 1.28 GPF (BARRIER FREE)	1"	-	4"	2"	-	INTEGRAL	AMERICAN STD 3461.001 "MODERA" FLOWISE, REGULAR HEIGH, ELONGATED WITH 1.28, SLOAN ROYAL #111-1.28 FLUSHOMETER. ADA COMPLIANT.		SIERE I * F-11441 * ELE * ELE
	U-1	ADA URINAL	3/4"	-	4"	2"	-	INTEGRAL	AMERICAN STD. ALLBROKE MODEL #6550.510-0.5GPF, SLOAN # 186-0.5 GPF FLUSHOMETER.		S. ES S. ES (STERED # CHANICA
*	L-1	WALL-HUNG ADA LAVATORY	1/2"	1/2"	2"	1-1/2"	-	1-1/4"	AMERICAN STD MURRO UNIVERSAL DESIGN, WALL HUNG WITH EVERCLEAN; P-TRAP, 1/2" H & C.W. STOP VALVES WITH ESCUTCHEON PLATES; FAUCET SHALL BE		M. REG ME( 435
	EDF-1	ADA HI/LO DRINKING FOUNTAIN.	1/2"	-	2"	1-1/2"	-	1-1/4"	HALSEY TAYLOR HTV-8-BL-Q-TTG		s on these ve preceden sions. Contr
	MS-1	MOP SINK	1/2"	1/2"	3"	2"	-	3"	SUBMIT CUTSHEETS FOR PROPOSED FIXTURE TO OWNER FOR APPROVAL.		mension shall ha v and b
*	FD-1	FLOOR DRAIN	_	_	2"	1-1/2"	_	2"	TRUE SET COMMERCIAL DRAIN MODEL TP311B.		aitten di avings er scale all verif
	SK-1	SINGLE COMP. SINK	1/2"	1/2"	2"	1-1/2"	_	1-1/2"	ELKAY MODEL LR 2521, STAINLESS STEEL CONSTRUCTION; P-TRAP, 1/2" H & C.W. ANGLE STOP VALVES WITH ESCUTCHEONS, LK-35 STRAINER, FAUCET LK 320 CAST SWING SPOUT WITH AERATOR.		<u>≥₽2₽</u>
	SH-1	ADA SHOWER	1/2"	1/2"	2"	1-1/2"	_	2"	REFER TO ARCHITECTURAL DETAILS FOR SHOWER ENCLOSURE. CHICAGO FAUCET 2500-VOCCP, ADA COMPLIANT. TEMPSHIELD SHOWER VALVE WITH TRIM 151-CP HAND SPRAY WITH 778-009 VACUUM BREAKER. INSTALL 2" FD-1 SHOWER FLOOR DRAIN.		dge) 2
	WF-1	WASH FOUNTAIN	3/4"	3/4"	2"	2"	-	1-1/4"	SUBMIT CUTSHEET OF PROPOSED FIXTURE TO OWNER FOR APPROVAL BEFORE ORDERING.		
		E PRO-SEAL INSERT TRA			BRO LAV	GUARD.					MOC (Oak Phase 2
					WAT	ER HE	EATER S	CHEDU	LE		
	-					ELEC	CTRICAL DAT	ГА			
			F	RECOVE	RY 🖳				MANUFACTURERS MODEL NUMBER		

			Р	LUME	BING F	IXTURE	SCHED	OULE	ENGINEERS	L FLUMBING STAFFORD
			PROVIDE CONNECT UNLESS	THE FOLLC TION TO THI OTHERWISE	WING SIZE BR E DISTRIBUTION SPECIFIED.	ANCH MAIN	P-TRAP			1-136, S
SYMBOL	DESCRIPTION FLOOR MNTD	CW	HW	SAN.	VENT	REMARKS	SIZE	SPECIFICATIONS		B1-13 
WC-1	WATER CLOSET 1.28 GPF (BARRIER FREE)	1"	-	4 <sup>39</sup>	2"	-	INTEGRAL	AMERICAN STD 3461.001 "MODERA" FLOWISE, REGULAR HEIGH, ELONGATED WITH 1.28, SLOAN ROYAL #111-1.28 FLUSHOMETER. ADA COMPLIANT.		AL EL 192, # 1 1928 F-
U-1	ADA URINAL	3/4"	-	4"	2"	-	INTEGRAL	AMERICAN STD. ALLBROKE MODEL #6550.510-0.5GPF, SLOAN # 186-0.5 GPF FLUSHOMETER.	S. E. S. E.S.	CHANICA 5 FM 1( 77477 1) 987-
L—1	WALL-HUNG ADA LAVATORY	1/2"	1/2"	2"	1-1/2"	-	1-1/4"	AMERICAN STD MURRO UNIVERSAL DESIGN, WALL HUNG WITH EVERCLEAN; P-TRAP, 1/2" H & C.W. STOP VALVES WITH ESCUTCHEON PLATES; FAUCET SHALL BE	KEG.	ce INLU actor 435 tions 7X
EDF-1	ADA HI/LO DRINKING FOUNTAIN.	1/2"	-	2"	1-1/2"	-	1-1/4"	HALSEY TAYLOR HTV-8-BL-Q-TTG	s on these	A preceden lions. Contra e responsibl and condit nis office of any varia
MS-1	MOP SINK	1/2"	1/2"	3"	2"	-	3"	SUBMIT CUTSHEETS FOR PROPOSED FIXTURE TO OWNER FOR APPROVAL.	dimension.	t shall have the dimensatify and by iffy and by imensions job and the t notified
FD—1	FLOOR DRAIN	-	-	2"	1-1/2"	-	2"	TRUE SET COMMERCIAL DRAIN MODEL TP311B.		ver sca ver sca or all ver or all d n the j nust be
SK-1	SINGLE COMP. SINK	1/2"	1/2"	2"	1-1/2"	-	1-1/2"	ELKAY MODEL LR 2521, STAINLESS STEEL CONSTRUCTION; P-TRAP, 1/2" H & C.W. ANGLE STOP VALVES WITH ESCUTCHEONS, LK-35 STRAINER, FAUCET LK 320 CAST SWING SPOUT WITH AERATOR.	<u>-</u> ≦1	<u> </u>
SH-1	ADA SHOWER	1/2"	1/2"	2"	1-1/2"	_	2"	REFER TO ARCHITECTURAL DETAILS FOR SHOWER ENCLOSURE. CHICAGO FAUCET 2500-VOCCP, ADA COMPLIANT. TEMPSHIELD SHOWER VALVE WITH TRIM 151-CP HAND SPRAY WITH 778-009 VACUUM BREAKER. INSTALL 2" FD-1 SHOWER FLOOR DRAIN.	dge)	Way
WF—1	WASH FOUNTAIN	3/4"	3/4"	2"	2"	_	1-1/4"	SUBMIT CUTSHEET OF PROPOSED FIXTURE TO OWNER FOR APPROVAL BEFORE ORDERING.	Lie P	EL,
	DE PRO-SEAL INSERT TRA			EBRO LAV	GUARD.				MOC (Oak Phase 2	27312 Spect
				WAI	FER HE	ATER S	CHEDU	JLE		
			ECOVE	RY	ELEC	TRICAL DAT	ГА			
			ECOVER		KW V	DLTS/PHASE		MANUFACTURERS MODEL NUMBER		
ITEM	GALS. LITER			/			· +			

## PLUMBING PIPING MATERIALS:

- A. DOMESTIC HOT AND COLD WATER SHALL BE TYPE "L" COPPER (ASTM B88) WITH WROUGHT COPPER SOLDER FITTINGS (ANSIB16.22) USING 95/5 SOLDER, OR CPVC PIPING.
- B. SANITARY WASTE & VENT PIPING WITH FITTING SHALL BE SCHEDULE 40 PVC CONFORMING TO ASTM-1785.
- C. PROVIDE ISOLATION FITTINGS WHENEVER DISSIMILAR MATERIALS ARE USED.

M. S. ESIERI 52078

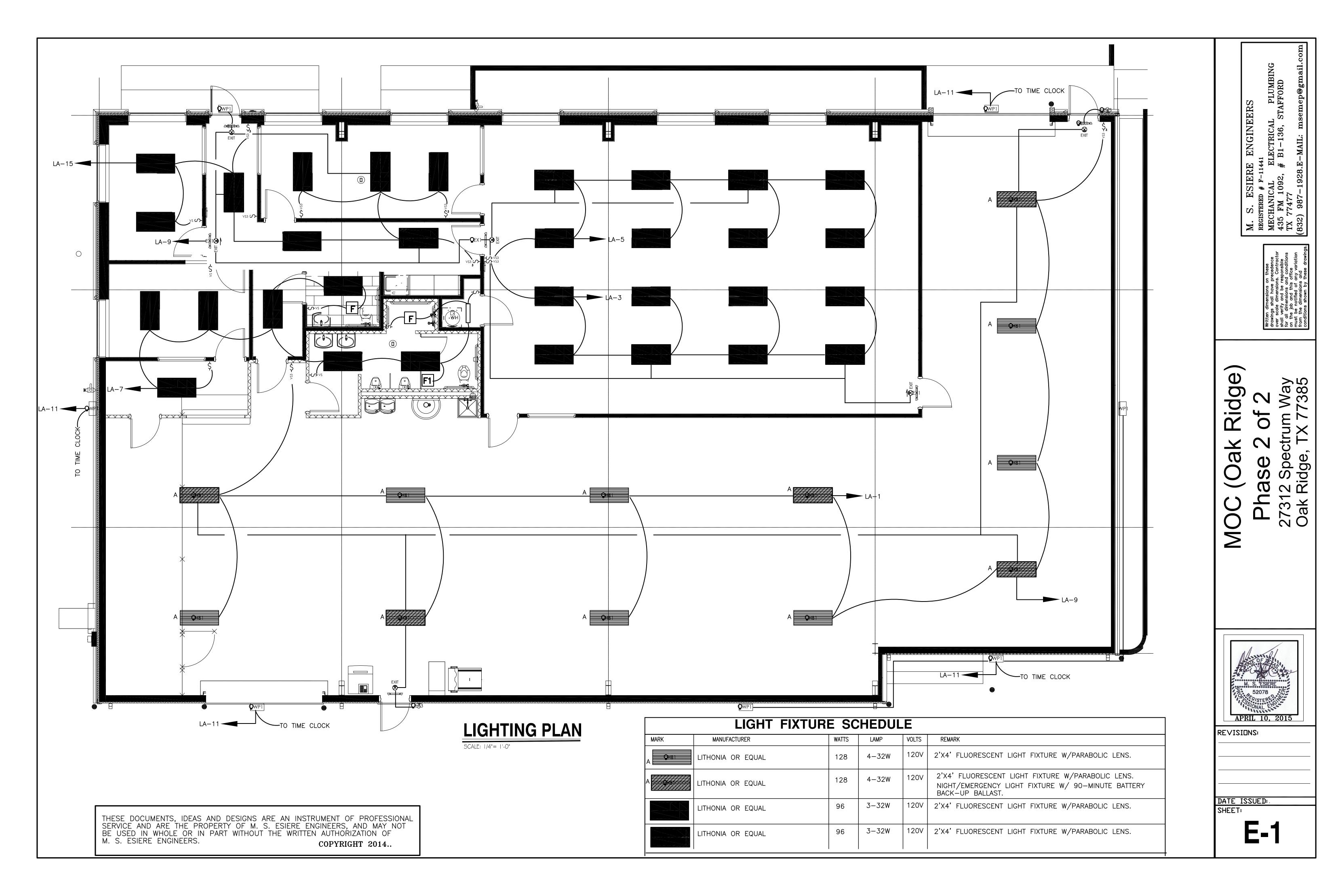
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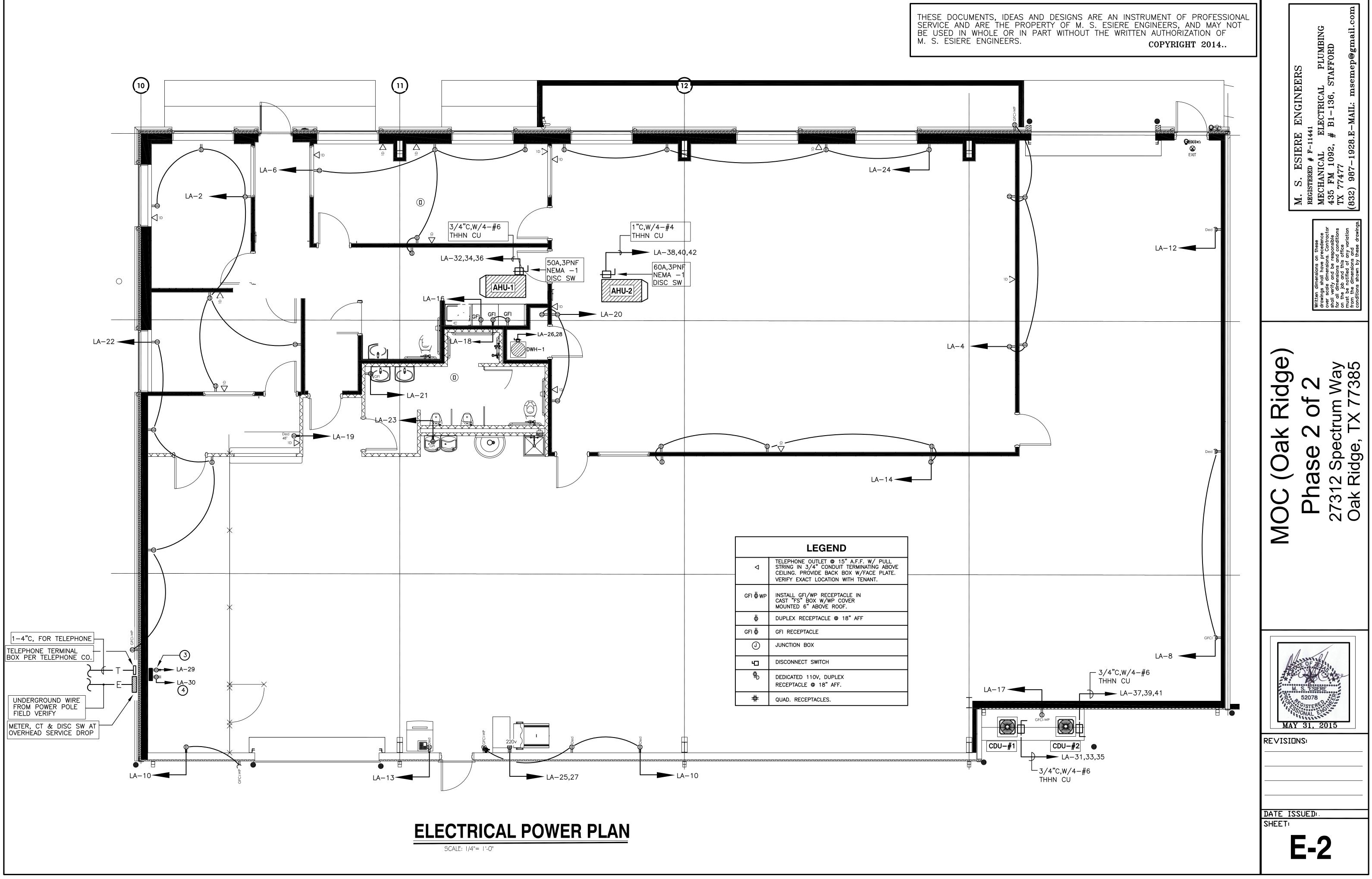
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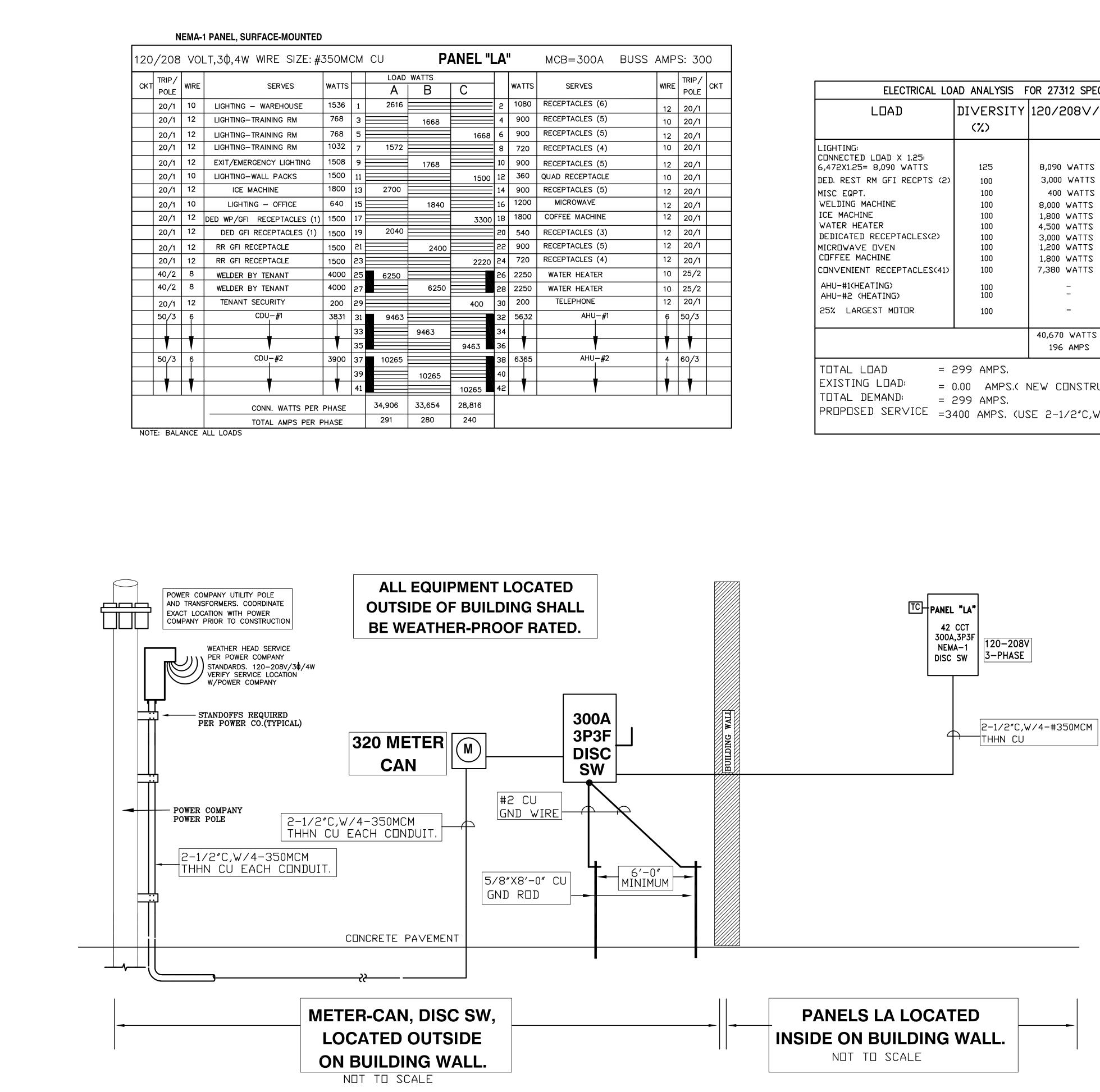
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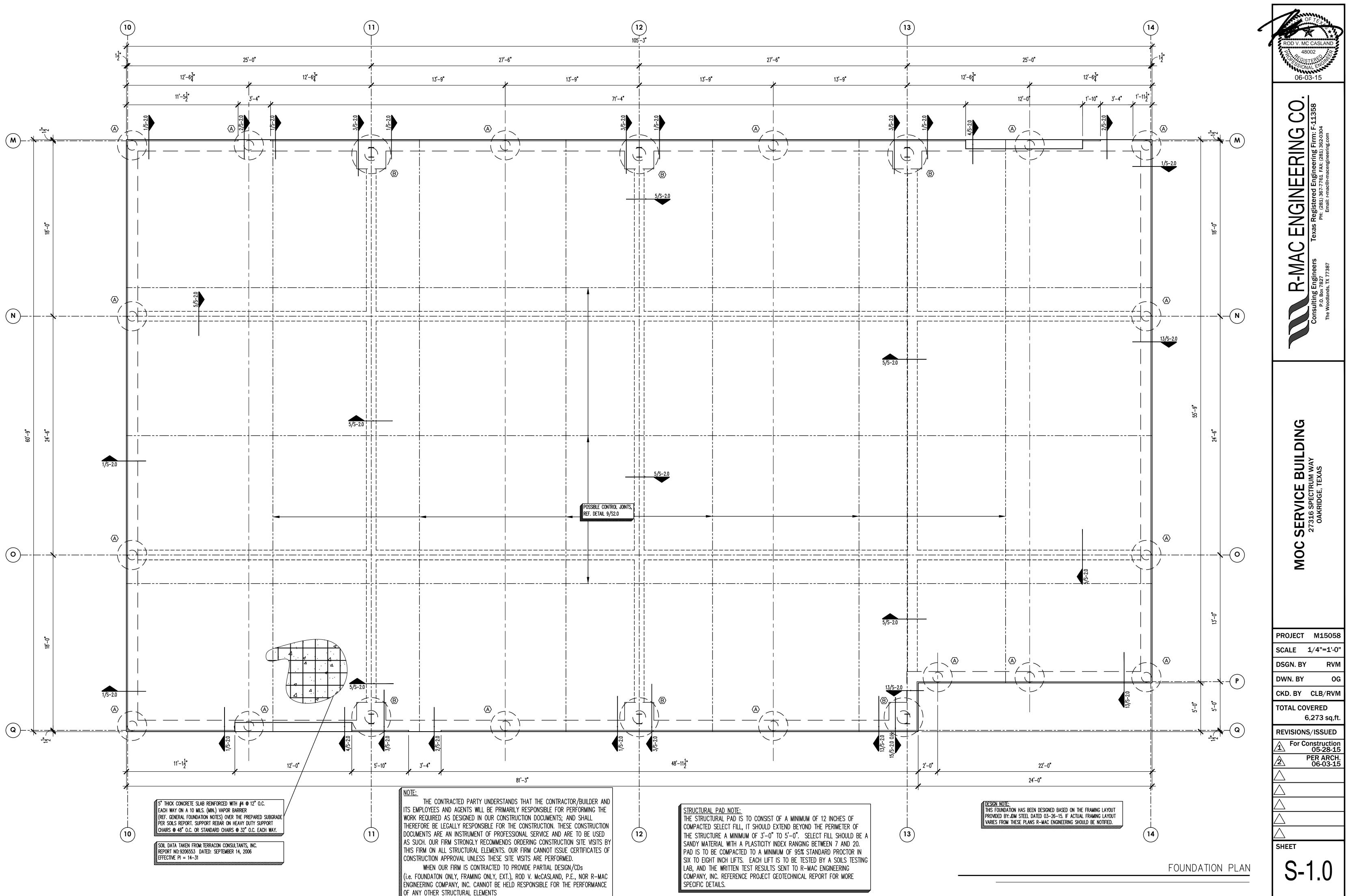


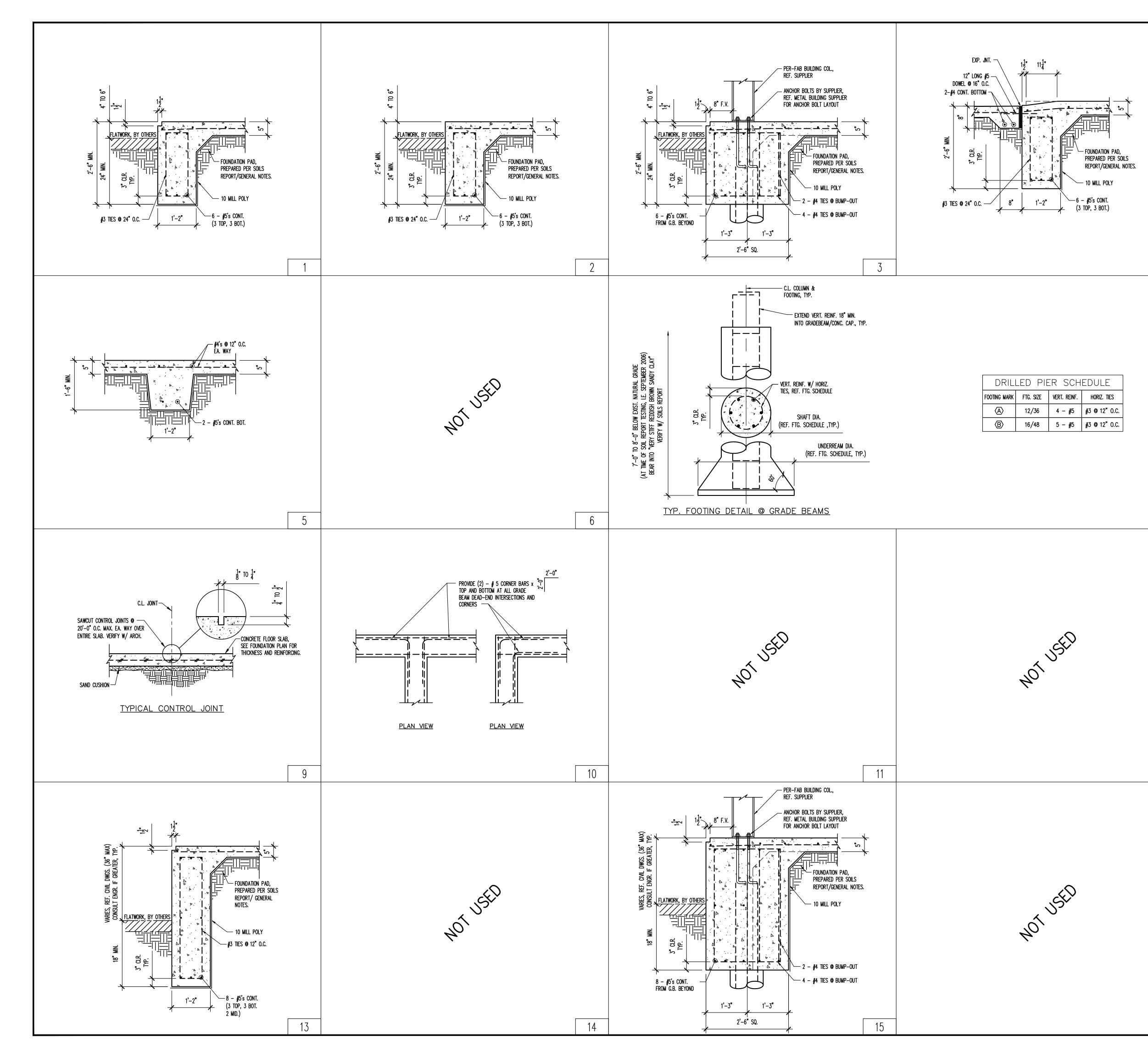


ТНЕ	2
SEF	51
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Μ.	S

SERVES       WIRE       TRIP/POLE       CKT         RECEPTACLES (6)       12       20/1       12         RECEPTACLES (5)       10       20/1       10         RECEPTACLES (5)       12       20/1       10         RECEPTACLES (5)       12       20/1       10         RECEPTACLES (5)       12       20/1       10         QUAD RECEPTACLE       10       20/1       10         QUAD RECEPTACLES (5)       12       20/1       10         QUAD RECEPTACLES (5)       12       20/1       10         MICROWAVE       12       20/1       10         COFFEE MACHINE       12       20/1       10         RECEPTACLES (3)       12       20/1       10         RECEPTACLES (5)       12       20/1       10         RECEPTACLES (5)       12       20/1       10         RECEPTACLES (4)       12       20/1       10         WATER HEATER       10       25/2       10         WATER HEATER       10       25/2       10         AHU-#1       6       50/3       10       10         AHU-#2       4       60/3       10	MCB=300A	BUSS	AMP	S: 30	0
12       20/1         RECEPTACLES (5)       10       20/1         RECEPTACLES (5)       12       20/1         RECEPTACLES (4)       10       20/1         RECEPTACLES (5)       12       20/1         QUAD RECEPTACLES (5)       12       20/1         QUAD RECEPTACLE       10       20/1         RECEPTACLES (5)       12       20/1         RECEPTACLES (5)       12       20/1         MICROWAVE       12       20/1         COFFEE MACHINE       12       20/1         RECEPTACLES (3)       12       20/1         RECEPTACLES (5)       12       20/1         RECEPTACLES (5)       12       20/1         RECEPTACLES (4)       12       20/1         RECEPTACLES (4)       12       20/1         WATER HEATER       10       25/2         WATER HEATER       10       25/2         TELEPHONE       12       20/1         AHU-#1       6       50/3	SERVES		WIRE	· ·	скт
RECEPTACLES (5)       10       20/1         RECEPTACLES (5)       12       20/1         RECEPTACLES (4)       10       20/1         RECEPTACLES (5)       12       20/1         QUAD RECEPTACLES (5)       12       20/1         QUAD RECEPTACLES (5)       12       20/1         RECEPTACLES (5)       12       20/1         MICROWAVE       12       20/1         COFFEE MACHINE       12       20/1         RECEPTACLES (3)       12       20/1         RECEPTACLES (5)       12       20/1         RECEPTACLES (5)       12       20/1         RECEPTACLES (5)       12       20/1         RECEPTACLES (5)       12       20/1         RECEPTACLES (4)       12       20/1         WATER HEATER       10       25/2         WATER HEATER       10       25/2         TELEPHONE       12       20/1         AHU-#1       6       50/3	RECEPTACLES (6)		12	20/1	
RECEPTACLES (4)       10       20/1         RECEPTACLES (5)       12       20/1         QUAD RECEPTACLE       10       20/1         RECEPTACLES (5)       12       20/1         RECEPTACLES (5)       12       20/1         MICROWAVE       12       20/1         COFFEE MACHINE       12       20/1         RECEPTACLES (3)       12       20/1         RECEPTACLES (5)       12       20/1         RECEPTACLES (5)       12       20/1         RECEPTACLES (4)       12       20/1         WATER HEATER       10       25/2         WATER HEATER       10       25/2         TELEPHONE       12       20/1         AHU-#1       6       50/3	RECEPTACLES (5)				
RECEPTACLES (4)       10       20/1         RECEPTACLES (5)       12       20/1         QUAD RECEPTACLE       10       20/1         RECEPTACLES (5)       12       20/1         MICROWAVE       12       20/1         COFFEE MACHINE       12       20/1         RECEPTACLES (3)       12       20/1         RECEPTACLES (3)       12       20/1         RECEPTACLES (5)       12       20/1         RECEPTACLES (4)       12       20/1         RECEPTACLES (4)       12       20/1         WATER HEATER       10       25/2         WATER HEATER       10       25/2         TELEPHONE       12       20/1         AHU-#1       6       50/3	RECEPTACLES (5)		12	20/1	
QUAD RECEPTACLE       10       20/1         RECEPTACLES (5)       12       20/1         MICROWAVE       12       20/1         COFFEE MACHINE       12       20/1         RECEPTACLES (3)       12       20/1         RECEPTACLES (5)       12       20/1         RECEPTACLES (5)       12       20/1         RECEPTACLES (4)       12       20/1         WATER HEATER       10       25/2         WATER HEATER       10       25/2         TELEPHONE       12       20/1         AHU-#1       6       50/3	RECEPTACLES (4)		10		
RECEPTACLES (5)       12       20/1         MICROWAVE       12       20/1         COFFEE MACHINE       12       20/1         RECEPTACLES (3)       12       20/1         RECEPTACLES (5)       12       20/1         RECEPTACLES (4)       12       20/1         WATER HEATER       10       25/2         WATER HEATER       10       25/2         TELEPHONE       12       20/1         AHU-#1       6       50/3	RECEPTACLES (5)		12	20/1	
MICROWAVE       12       20/1         COFFEE MACHINE       12       20/1         RECEPTACLES (3)       12       20/1         RECEPTACLES (5)       12       20/1         RECEPTACLES (4)       12       20/1         WATER HEATER       10       25/2         WATER HEATER       10       25/2         TELEPHONE       12       20/1         AHU-#1       6       50/3	QUAD RECEPTACLE		10	20/1	
12       20/1         COFFEE MACHINE       12       20/1         RECEPTACLES (3)       12       20/1         RECEPTACLES (5)       12       20/1         RECEPTACLES (4)       12       20/1         WATER HEATER       10       25/2         WATER HEATER       10       25/2         TELEPHONE       12       20/1         AHU-#1       6       50/3	RECEPTACLES (5)		12	20/1	
RECEPTACLES (3)       12       20/1         RECEPTACLES (5)       12       20/1         RECEPTACLES (4)       12       20/1         WATER HEATER       10       25/2         WATER HEATER       10       25/2         TELEPHONE       12       20/1         AHU-#1       6       50/3	MICROWAVE		12	20/1	
RECEPTACLES (5)       12       20/1         RECEPTACLES (4)       12       20/1         WATER HEATER       10       25/2         WATER HEATER       10       25/2         TELEPHONE       12       20/1         AHU-#1       6       50/3	COFFEE MACHINE		12	20/1	
RECEPTACLES (4)     12     20/1       WATER HEATER     10     25/2       WATER HEATER     10     25/2       TELEPHONE     12     20/1       AHU-#1     6     50/3	RECEPTACLES (3)		12	20/1	
WATER HEATER     10     25/2       WATER HEATER     10     25/2       TELEPHONE     12     20/1       AHU-#1     6     50/3	RECEPTACLES (5)		12	20/1	
WATER HEATER       10       25/2         TELEPHONE       12       20/1         AHU-#1       6       50/3         V       V       V	RECEPTACLES (4)		12	20/1	
TELEPHONE     12     20/1       AHU-#1     6     50/3	WATER HEATER		10	25/2	
AHU-#1 6 50/3	WATER HEATER		10	25/2	
	TELEPHONE		12	20/1	
AHU-#2 4 60/3	AHU-#1		ę	50/3	
AHU-#2 4 60/3					
AHU-#2 4 60/3					
	AHU-#2		4	60/3	
	▼				

	BE USE	CUMENTS, IDEAS AND DESIGNS ARE AN INSTRUMENT OF PROFESSION ND ARE THE PROPERTY OF M. S. ESIERE ENGINEERS, AND MAY NO IN WHOLE OR IN PART WITHOUT THE WRITTEN AUTHORIZATION OF ERE ENGINEERS. COPYRIGHT 2014 ELECTRICAL NOTES 1. INSTALLATION SHALL COMPLY WITH NEC AND LOCAL CODES IN EVERY RESPECT.	ERS PLUMBIN STAFFORD
ELECTRICAL LOAD ANALYSIS FOR 27312 SPECTRUM	WAY		NGINE TRICAL -136, 2
	120-208∨/ 3Ø	2. FIELD VERIFY EXACT LOCATION OF ELECT. CO. SERVICE POLE. VERIFY EXACT LOCATION OF SERVICE WIREWAY AND PANELS ON BUILDING WITH ARCHITECT.	ENGI ENGI B1-13 B1-13
(%)		3. ALL CONDUITS SHALL BE RGS OR EMT ABOVE GROUND AND SCHEDULE 40	
LIGHTING: CONNECTED LOAD X 1.25:		PVE UNDERGROUND. ALL CONDUCTORS SHALL BE COPPER THW, THHN OR THWN. INSTALL PULL WIRE IN ALL SPARE CONDUITS.	SIERE # F-114 AL E CAL E -1928.E
6,472X1.25= 8,090 WATTS 125 8,090 WATTS U	USE CODE LOAD	4. GROUND ALL SER∨ICE EQUIPMENT ETC PER NEC AND LOCAL CODES.	
DED. REST RM GFI RECPTS (2)1003,000 WATTSMISC EQPT.100400 WATTS	-		M. S. F Registered MECHANI 435 FM TX 77477 332) 987
WELDING MACHINE 100 8,000 WATTS	-	5. SUBMIT SHOP DRAWINGS ON ALL EQUIPMENT, SWITCHES, FIX- TURES, ETC FOR APPRO∨AL BY ENGINEER BEFORE PURCHASING.	M. 8 REGIST MECH 435 TX 7 832)
WATER HEATER 100 4,500 WATTS	-	6. COORDINATE LOCATION OF SWITCHES AND OUTLETS WITH ARCH. PLANS.	M M (83 (83 (83
DEDICATED RECEPTACLES(2)1003,000 WATTSMICREWAVE EVEN1001,200 WATTS	-	7. FUSES AND DISCONNECT SWITCHES SHALL BE RATED FOR ELECT. CO	ģ
CDFFEE MACHINE1001,800 WATTSCDNVENIENT RECEPTACLES(41)1007,380 WATTS	-	MAX. AVAILABLE FAULT CURRENT PER ELECT. CD. DUTLET LOCATION REPORT.	ractor itions drawing
AHU-#1(HEATING) -	16,896 WATTS	8. ALL SWITCHES, RECEPTACLES AND PLATES ARE TO BE I∨ORY IN	these . Cont freeder freeder free hese these
AHU-#2 (HEATING)     100     -       25% LARGEST MOTOR     100     -	19,094 WATTS 1,053 WATTS	COLOR UNLESS NOTED OTHERWISE ON PLANS.	ans on nsions. be reactions and be reactions and by t
25% LARGEST MOTOR 100 -	1,053 WATTS	9, FURNISH AND INSTALL ALL TELEPH⊡NE AND CABLE T∨ EQUIPMENT AND CABLES, VERIFY L□CATI⊡NS W/ □WNER AND □R ARCHITECT.	b and shall h b and dimension shown shown shown
40,670 WATTS 196 AMPS	37,043 WATTS 103 AMPS	10. INSTALL GROUND FAULT INTERRUPTING RECEPTACLES WHERE LOCATED NEAR SINKS, LAVATORIES AND WHERE LOCATED OUTSIDE.	Written di drawings a over scale shall verif for all din on the jol from the conditions
TOTAL LOAD = 299 AMPS.		11. COORDINATE INSTALLATION OF ALL AC UNITS CONDUCTORS WITH	
EXISTING LOAD:= 0.00AMPS.( NEW CONSTRUCTIOTOTAL DEMAND:= 299AMPS.	IN)	THE HVAC CONTRACTOR. CONDUCTORS AND CONDUITS MAY BE ADJUSTED DOWN IF UNITS FLA IS LESS THAN PROVIDED FOR IN	
PROPOSED SERVICE = 3400 AMPS. (USE $2-1/2^{\prime}C$ , $W/4-#$	350MCM THHN CU	THESE PLANS COORDINATE LOCATION OF AC DISCONNECTS WITH H∨AC CONTRACTOR.	
		12. VERIFY LOADS OF ALL APPLIANCES AND HVAC EQUIPMENT WITH VENDOR PRIOR TO INSTALLING CIRCUITS AND ADJUST WIRE,	Ω ⊂ Ū
		CONDUIT AND CIRCUIT BREAKER SIZES ACCORDINGLY.	
		13. PROVIDE AND INSTALL IECC 805.2.2.2 COMPLIANT CLOCK. ALL INTER LIGHTING CIRCUITS SHALL BE CONTROLLED BY TIMECLOCK. TIMECLOC	
		SHALL HA∨E A COMBINATION 7-DAY AND SEASONAL DAYLIGHT PROG SCHEDULE AND A MINIMUM 4-HOUR POWER BACKUP.	
		14. PROVIDE AND INSTALL IECC 805.2.2.2 COMPLIANT TIME CLOCK. ALL	
		EXTERIOR LIGHTING CIRCUITS SHALL BE CONTROLLED BY TIMECLOCK TIMECLOCK SHALL HAVE A COMBINATION 7-DAY AND SEASONAL DAYL	
		PROGRAM SCHEDULE AND A MINIMUM 4-HOUR POWER BACKUP.	ge e g
		15. PROVIDE AND INSTALL DCCUPANT SENSOR SWITCH IN THE EMPLOYEE ROOM AND ALL REST ROOMS. SWITCH SHALL AUTOMATICAL TURN LIGHTING DFF WITHIN 30 MINUTES DF ALL DCCUPANTS LEAVI	
		THE ROOM.	$\square \square $
TC PANEL "LA"		FOR ADDITIONAL GENERAL NOTES	
42 CCT		& SPECIFICATIONS SEE SHEET MEP	Oa C Sal
300A,3P3F NEMA-1 120-208V			
DISC SW 3-PHASE		LEGEND	
		3-WAY SWITCH, LEVITON DECORA BRAND,	
		\$3IVORY COLOR.\$0DIMMER SWITCH, LEVITON DECORA BRAND,	
		IVORY COLOR. SINGLE POLE SWITCH, LEVITON DECORA BRAND,	
2-1/2"C,W/4-#350MCM THHN CU		IVORY COLOR.	
		■ DATA OUTLET.	
		CEILING. PRÓVIDE BACK BOX W/FACE PLATE.	
		GFI WP INSTALL GFI RECEPTACLE IN CAST "FS" BOX W/WP COVER	OFTEN
		MOUNTED 6" ABOVE ROOF.	+ million Carpe
		DUPLEX RECEPTACLE @ 18" AFF	M. S. ESIERE
		GFI 🖗 GFI RECEPTACLE	Do FC/STERE
		J JUNCTION BOX	MAY 31, 2015
		L DISCONNECT SWITCH	REVISIONS:
		DEDICATED 110V, DUPLEX RECEPTACLE @ 18" AFF.	
		RECEFTACLE @ TO AFF.	
PANELS LA LOCATED		220V 220V, 1-PHASE OUTLET	
DE ON BUILDING WALL.		$\stackrel{\forall s}{\underline{\flat}}$ LEVITON ODS WALL SWITCH INFRARED OCCUPANCY AND VACANCY SENSOR; LEVITON CAT # ODS15-ID.	DATE ISSUED: SHEET:
	LEVITON ODC SERIES CEILING-MNTD VACANCY	<b>E-3</b>	
NDT TO SCALE			
		SENSOR; MODEL # 03C20-MDW. WALL SWITCH INFRARED OCCUPANCY	





<u>GENERAL</u>	FOUNDATION	NOTES

## FOUNDATION

THE FOUNDATION FOR THE STRUCTURE IS DESIGNED USING THE FOLLOWING SOIL BEARING PRESSURES AT A DEPTH OF 7'-0" TO 8'-0" WHICH HAS BEEN SUPPLIED BY THE GEOTECHNICAL ENGINEER: TERRACON CONSULTANTS, INC. REPORT NO.: 9206553, DATED: SEPTEMBER 14, 2006 (DEPTH IS FROM EXISTING NATURAL GRADE)

DEAD LOAD PLUS SUSTAINED LIVÉ LOAD ------3500-4200 PSF TOTAL LOAD ----- 5000-5500 PSF

3.

## VAPOR RETARDER/BARRIER NOTES

1. ACI 302.1R-96, GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION (ACI COMMITTEE 302) RECOMMENDS THAT A VAPOR RETARDER/BARRIER WITH: PERMEANCE OF LESS THAN 0.3 US PERMS (ASTM E 96, "STANDARD TEST METHODS FOR WATER VAPOR TRANSMISSION OF MATERIALS"), AND

> THICKNESS NOT LESS THAN 10 MILS BE PLACED UNDER THE CONCRETE FLOOR SLAB ON GROUND TO REDUCE THE TRANSMISSION OF WATER VAPOR FROM THE SUPPORTING SOIL THROUGH THE CONCRETE SLAB AND TO FUNCTION AS A SLIP SHEET TO REDUCE SUBGRADE DRAG FRICTION.

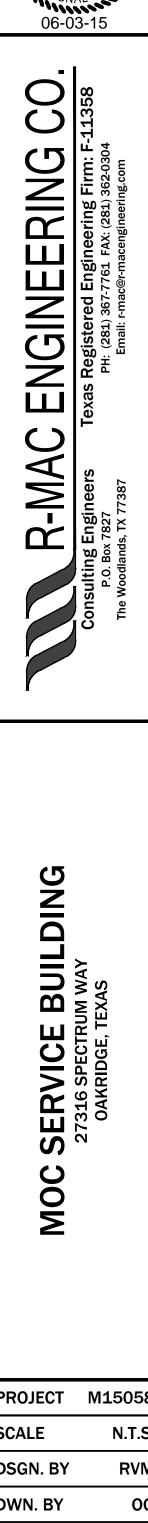
2. WE RECOMMEND THAT A 10-MIL POLYETHYLENE SHEET OR STEGO INDUSTRIES 10 MIL "STEGO WRAP" BE USED AS THE MOISTURE RETARDER/BARRIER. LOCAL PRECTICE IS TO PLACE THE CONCRETE FLOOR DIRECTLY ON THE VAPOR RETARDER/BARRER. THE VAPOR

RETARDER / BARRIER SHOULD BE INSTALLED ACCORDING TO ASTM E 1643 ("STANDARD PRACTICE FOR INSTALLATION OF WATER VAPOR RETARDERS USED IN CONTACT WITH EARTH AR GRANULAR FILL UNDER CONCRETE SLABS.

## CONCRETE NOTES

1. CONCRETE IN THE FOLLOWING AREAS SHALL HAVE NORMAL-WEIGHT AGGREGATES CONFORMING TO ASTM C33, TYPE 1 PORTLAND CEMENT, AND THE FOLLOWING DESIGNATED MINIMUM COMPRESSIVE STRENGTH (F'C) IN 28 DAYS. DRILLED FOOTINGS -

- GRADE BEAMS -SLAB ON GRADE · --3000 PSI GROUT UNDER BASE PLATES SHALL BE A NON-SHRINKABLE TYPE AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH 2.
- OF 5000 PSI. 3. REINFORCING BARS FOR CONCRETE SHALL CONFORM TO ASTM A615, GRADE 60. NO. 3 BARS MAY CONFORM TO ASTM A614, GRADE 40 EXCEPT AS NOTED.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. FABRIC IS TO BE LAPPED ONE MESH MINIMUM AT SPLICES.
- AT ALL SLAB ON GRADE CONSTRUCTION JOINTS, PROVIDE NO. 3 DOWELS X 3'-0" AT 36 INCHES ON CENTER. REINFORCEMENT DESIGNATED AS "CONTINUOUS" SHALL LAP 36 BAR DIAMETERS AT SPLICES U.O.N.
- PROVIDE 1 NO. 6 CORNER BAR TOP AND BOTTOM AT THE EXTERIOR FACE OF ALL GRADE BEAMS. CORNER BARS SHALL BE 4'-0" LONG, BENT AT THE MIDDLE OF EACH BAR.
- 8. REINFORCING BARS MAY NOT BE WELDED UNLESS SPECIFICALLY CALLED FOR ON THE DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER. DETAILING OF CONCRETE REINFORCEMENT AND ACCESSORIES SHALL CONFORM TO THE RECOMMENDATIONS OF THE 9. AMERICAN CONCRETE INSTITUTE. LIKEWISE, MIXING, TRANSPORTING, PLACING, AND CURING OF ALL CONCRETE SHALL
- CONFORM TO THE RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE. CONCRETE COVER OF REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF A.C.I. 318 SECTION 7.7. 10.
- HORIZONTAL JOINTS WILL NOT BE PERMITTED IN CONCRETE CONSTRUCTION EXCEPT AS PROVIDED ON THE STRUCTURAL DRAWINGS. ALL CONSTRUCTION JOINTS SHALL BE MADE VERTICAL BULKHEADS AT THE CENTER OF SPANS OR AT LOCATIONS APPROVED BY THE STRUCTURAL ENGINEER.



ROD V. MC CASLAND

48002

PROJECT	M15058				
SCALE	N.T.S.				
DSGN. BY RVM					
DWN. BY	OG				
CKD. BY	CLB/RVM				
TOTAL COVERED 6,273 sq,ft.					
REVISIONS/ISSUED					
For (	Construction 05-28-15				
2	PER ARCH. 06-03-15				
$\bigtriangleup$					
$ \land $					
$\wedge$					
$\Delta$					
$\Delta$					
SHEET					
S-2.0					

12