Love's®

Travel Stop & Country Stores

SPEEDCO RE-BRANDING

STORE #724
13700 S US HIGHWAY 441
LAKE CITY, FL 32025

Mar21,2019-11:18am - User:nicho.eggers
C:\Users\nicho.eggers\appdata\local\temp\AcPublish_8464\100 YC1 COVER SHEET & INDEX.dwg

GENERAL SCOPE OF WORK

+ REMODEL:
- ADD OIL PITS TO EXISTING SERVICE BAY
- RE-BRAND TO SPEEDCO

PROJECT DIRECTORY

OWNER:
LOVES
10601 N. PENNSYLVANIA AVE.
OKLAHOMA CITY, OK 73120
ATTN: RANDY SWAIN

ARCHITECT:
HARRISON FRENCH & ASSOC., LTD
1705 S WALTON BLVD, SUITE 3
BENTONVILLE, AR 72712

STRUCTURAL ENGINEER:
HARRISON FRENCH & ASSOC., LTD
1705 S WALTON BLVD, SUITE 3
BENTONVILLE, AR 72712

MEP ENGINEER:
HARRISON FRENCH & ASSOC., LTD
1705 S WALTON BLVD, SUITE 3
BENTONVILLE, AR 72712

OIL DRAWINGS:
HARRISON FRENCH & ASSOC., LTD
1705 S WALTON BLVD, SUITE 3
BENTONVILLE, AR 72712

NOTE:
CONTACT THE CONSTRUCTION PROJECT MANAGER FOR ALL RFI'S, QUESTIONS REGARDING BIDDING, OR FOR A LIST OF GENERAL CONTRACTORS.

PROJECT DATA

BUILDING CODE:	2017 FLORIDA BUILDING CODE
MECHANICAL CODE:	2017 FLORIDA BUILDING CODE
PLUMBING CODE:	2017 FLORIDA BUILDING CODE
ELECTRICAL CODE:	2014 NATIONAL ELECTRIC CODE
FIRE CODE:	FLORIDA FIRE PREVENTION CODE 6TH EDITION
ACCESSIBILITY CODE:	2017 FLORIDA BUILDING CODE
LIFE SAFETY CODE:	FLORIDA FIRE PREVENTION CODE 6TH EDITION
ENERGY CODE:	2017 FLORIDA BUILDING CODE
BUILDING OCCUPANCY:	S1
CONSTRUCTION TYPE:	V-B; SPRINKLED

DISCLAIMER: EXISTING CONDITIONS SHOWN ARE BASED ON DRAWING AND/OR INFORMATION PROVIDED BY THE OWNER'S REPRESENTATIVE. THE ARCHITECT AND ENGINEERS HAVE NOT FIELD VERIFIED THIS INFORMATION AND ASSUME NO RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS OF THIS INFORMATION. THE GENERAL CONTRACTOR SHALL NOTIFY BOTH THE ARCHITECT AND THE OWNER'S REPRESENTATIVE IMMEDIATELY IF THE EXISTING CONDITIONS ARE NOT AS SHOWN WITHIN THE CONSTRUCTION DOCUMENTS.

LEGEND

X DOOR NUMBER	X/XX.X SHEET LOCATION
X ROOM NUMBER	X/X DETAIL MARK SHEET LOCATION
X WINDOW NUMBER	X'-X" HEIGHT REFERENCE POINT
X INTERIOR FINISH NUMBER	X SIGN TYPE
X EQUIPMENT NUMBER	

BUILDING AREA

EXISTING BUILDING AREA:	
TIRE SHOP/TIRE STORAGE:	2,815 SQ FT
SERVICE BAYS:	6,090 SQ FT
LOBBY:	372 SQ FT
RESTROOM:	65 SQ FT
AIR COMPRESSOR ROOM:	78 SQ FT
NEW LOCKER ROOM:	209 SQ FT
MEZZANINE:	701 SQ FT
LAWN STORAGE:	236 SQ FT
USED TIRE STORAGE:	236 SQ FT
TOTAL AREA:	10,802 SQ FT

ABBREVIATION LEGEND

NOTE: THIS IS A GENERAL ABBREVIATION LIST AND NOT ALL ABBREVIATIONS MAY APPEAR IN PLANS

ABBR	DEFINITION	ME	MASONRY ELEVATION
AB	ANCHOR BOLT	MECH	MECHANICAL
ACOST	ACOUSTIC	MFR	MANUFACTURER
ADA	AMERICANS WITH DISABILITIES ACT	MIN	MINIMUM
ADJ	ADJACENT	MISC	MISCELLANEOUS
AFF	ABOVE FINISHED FLOOR	MTL	METAL
AFG	ABOVE FINISHED GRADE	NTS	NOT TO SCALE
ALUM	ALUMINUM	OC	ON CENTER
ALT	ALTERNATE	OH	OPPOSITE HAND
ANC	ANCHORS	OHD	OVERHEAD DOOR
ARCH	ARCHITECTURAL	OP	OPERABLE PANEL
AT	ACOUSTICAL TILE	OP/CI	OWNER PROVIDED / CONTRACTOR INSTALL
BD	BOARD		
BOS	BOTTOM OF STEEL	OP/OI	OWNER PROVIDED / OWNER INSTALL
BRG	BEARING		
CL	CENTERLINE	P. LAM	PLASTIC LAMINATE
CLR	CLEAR	PT	PAINT
CMU	CONCRETE MASONRY UNIT	PVC	POLYVINYL CHLORIDE
COL	COLUMN	QTY	QUANTITY
CONC	CONCRETE	REF	REFER TO
CONST	CONSTRUCTION	REQD	REQUIRED
CONT	CONTINUOUS	SC	SOLID CORE
CT	CERAMIC TILE	SIM	SIMILAR
DIA	DIAMETER	SPECS	SPECIFICATIONS
EF	EXHAUST FAN	STD	STANDARD
EL	ELEVATION	STRUC	STRUCTURAL
ELEC	ELECTRICAL	SUSP	SUSPENDED
EQ	EQUAL	TEMP	TEMPERED
ETR	EXISTING TO REMAIN	THK	THICKNESS
FF	FINISHED FLOOR	TO	TOP OF
FRP	FIBERGLASS REINFORCED PLASTIC	TOC/TC	TOP OF CONCRETE
FTG	FOOTING	TOG	TOP OF GRADE BEAM
FV	FIELD VERIFY	TOM	TOP OF MASONRY
GC	GENERAL CONTRACTOR	TOP/TP	TOP OF PAVING
H	HEIGHT	TOS	TOP OF STEEL
HC	HANDICAP	TYP	TYPICAL
HM	HOLLOW METAL	UNO	UNLESS NOTED OTHERWISE
HWT	HOT WATER TANK	VIF	VERIFY IN FIELD
INFO	INFORMATION	W	WIDTH
L	LENGTH	WWF	WELDED WIRE FABRIC
MAX	MAXIMUM		

INDEX OF DRAWINGS:

ARCHITECTURAL

YC1	COVER SHEET AND INDEX
YSP1	OVERALL SITE PLAN
YSP2	ENLARGED SITE PLAN & DETAILS
YLS1	LIFE SAFETY PLAN
YD1	DEMOLITION PLAN
YA1	FLOOR PLAN
YA2	SCHEDULES & DETAILS
YA3	EXTERIOR ELEVATIONS & DETAILS
YA5	LUBE PIT PLAN & SECTIONS
YA6	LUBE PIT SECTIONS & DETAILS

STRUCTURAL

YS1.0	GENERAL NOTES & TYPICAL DETAILS
YS2.0	FOUNDATION PLAN
YS3.0	LUBE PIT PLAN AND DETAILS

MECHANICAL

YM1.0	MECHANICAL AND PLUMBING SPECIFICATIONS
YM2.0	MECHANICAL FLOOR PLAN
YM2.1	PLUMBING FLOOR PLAN
YM3.0	MECHANICAL DETAILS AND SCHEDULES

ELECTRICAL

YE1	ELECTRICAL SPECIFICATIONS & GENERAL NOTES
YE2	SCHEDULES & NOTES
YE3	LIGHTING FLOOR PLAN
YE4	POWER FLOOR PLAN
YE5	SITE POWER PLAN

OIL DRAWINGS

T01	USED OIL PIPING AND ABOVEGROUND STORAGE TANK LAYOUT
T02	USED OIL TANK AND EQUIPMENT DETAILS

GENERAL PROJECT NOTE

ALL WOOD MATERIAL SHOWN IN DETAILS SHALL BE FIRE RETARDANT TREATED WOOD (FRTW) IN ACCORDANCE WITH 2012 IBC -SECTION 603.1 THIS INCLUDES ALL REFERENCE TO BLOCKING, NAILERS, PLYWOOD, AND IF APPLICABLE, WOOD STUDS.

RESPONSIBILITY SCHEDULE

GC = GENERAL CONTRACTOR O = OWNER

WORK SCHEDULE	FURNISHED BY		INSTALLED BY
GENERAL	GC	O	GC
DEMOLITION	X		
CONC. SLAB / CUT / PATCH	X		X
PAVING	X		X
BOLLARDS	X		X
DOOR HARDWARE		X	X
HOLLOW METAL DOORS		X	X
PAINT	X		X
WALL PANELS		X	X
TRIM		X	X
PLYWOOD	X		X
FIBER CEMENT PANELS	X		X

ANY ITEMS NOT LISTED ABOVE TO BE INSTALLED BY GC.

COLUMBIA COUNTY BUILDING DEPARTMENT Received for FILE COPY Codes Approved as Noted BLDG EXAMINER

HFA ARCHITECTS ENGINEERS INTERIORS

HARRISON FRENCH & ASSOCIATES, LTD

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13700 S. US HIGHWAY 441
LAKE CITY, FL
32025

SPEEDCO RE-BRANDING
PROJECT NUMBER: 03-19-60724

Love's® Travel Stop & Country Stores

STATE OF FLORIDA
BOGUE L. EBBRECHT
AR98288
REGISTERED ARCHITECT
3/21/19

Bogue L. Ebbrecht, Architect
License #AR98288
Harrison French & Associates, LTD
COA #AA26001029

APPROVED (Subject to Revisions)
Life Safety Services
Columbia County Fire Rescue
Florida State Fire Inspector # 136416
By_____ Date: 6/18/19

ISSUE BLOCK

STORE NO.	724
DOCUMENT DATE:	03/15/19
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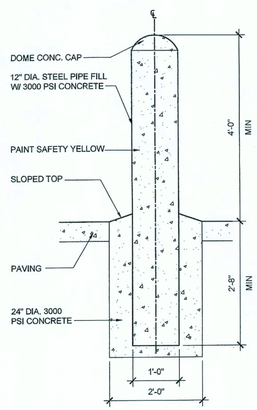
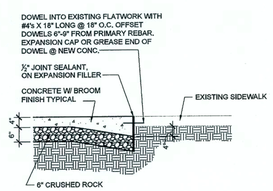
COVER SHEET AND INDEX

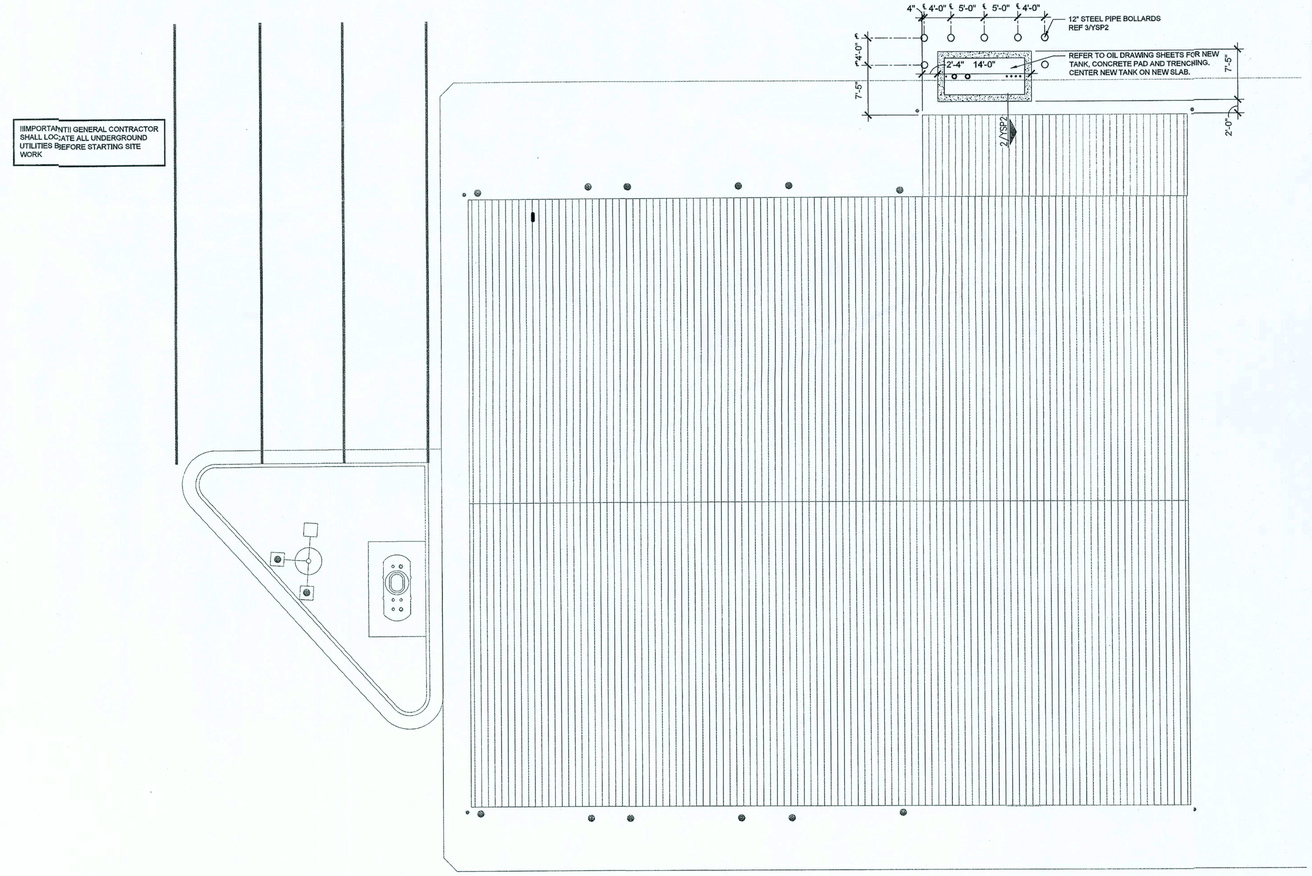
SHEET: YC1



3 12" BOLLARD DETAIL
3/8" = 1'-0"



2 CONCRETE JOINT DETAIL
1/8" = 1'-0"



1 SITE PLAN
SCALE: 1" = 40'-0"

NORTH

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HFA ARCHITECTS ENGINEERS INTERIORS
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13700 S. US HIGHWAY 441
LAKE CITY, FL
32025

SPEEDCO RE-BRANDING
PROJECT NUMBER: 03-19-60724

Loves® Travel Stop & Country Stores

STATE OF FLORIDA
BOGUE L. EBBRECHT
MAR 21, 2019
AR98288
LICENSED ARCHITECT

Bogue L. Ebbrecht, Architect
License #AR98288
Harrison French & Associates, LTD
COA #AA26001029

ISSUE BLOCK

STORE NO.	724
DOCUMENT DATE:	03/15/19
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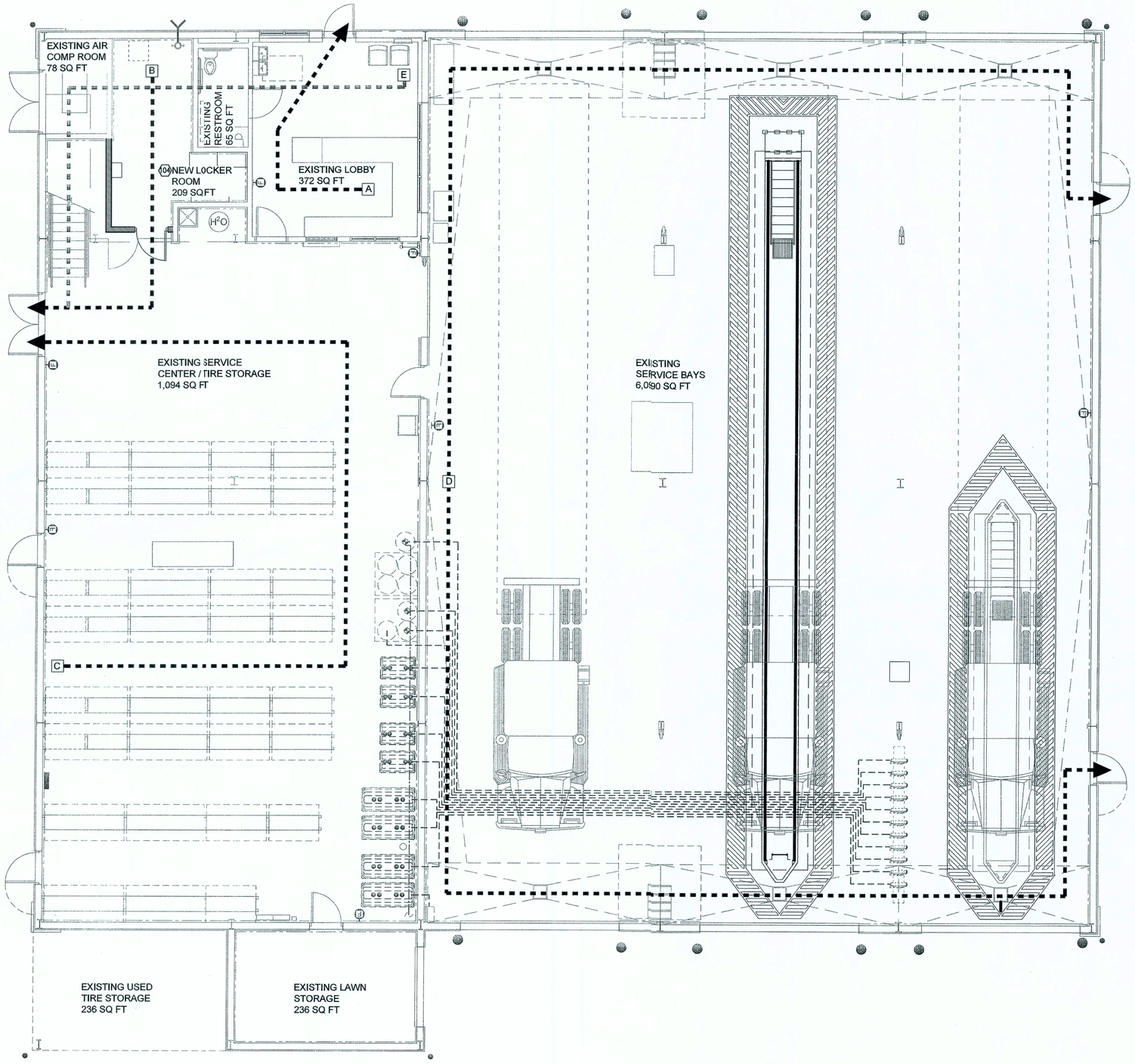
ENLARGED SITE PLAN & DETAILS

SHEET: YSP2



1 EGRESS PLAN

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

NORTH

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LEGEND

36" PATH OF TRAVEL

36" WIDE PATH OF TRAVEL FROM MEZZANINE

Egress Area & Occupant Load Calculations

Area A

Occupant Load Calculation Per IBC 1004.1.2 Table:

Lobby Area (Business) =	437 SF
437 SF @ 100 SF GROSS =	5 Occupants
Total Occupant Load For Area (A)=	**5 Occupants**
Egress Width Required Per IBC 1005.3:	
0.2 Inches Per Occupant @ 5 Occupants =	1 Inches
Total Inches Req'd For Area (A)=	**1 Inches Required**
Egress Width Provided:	
1 Door(s) @ 32 inches =	32 Inches
Total Inches Provided For Area (A)=	**32 Inches Provided**

Area B

Occupant Load Calculation Per IBC 1004.1.2 Table:

Locker Area =	209 SF
209 SF @ 50 SF GROSS =	5 Occupants
Total Occupant Load For Area (B)=	**5 Occupants**
Egress Width Required Per IBC 1005.3:	
0.2 Inches Per Occupant @ 5 Occupants =	1 Inches
Total Inches Req'd For Area (B)=	**1 Inches Required**
Egress Width Provided:	
1 Door(s) @ 32 inches =	32 Inches
Total Inches Provided For Area (B)=	**32 Inches Provided**

Area C

Occupant Load Calculation Per IBC 1004.1.2 Table:

Tire Storage Area (S-1 Industrial) =	2,815 SF
Locker Area Shared Egress =	209 SF
2,815 SF @ 300 SF GROSS =	10 Occupants
209 SF @ 50 SF GROSS =	5 Occupants
Total Occupant Load For Area (C)=	**15 Occupants**
Egress Width Required Per IBC 1005.3:	
0.2 Inches Per Occupant @ 15 Occupants =	3 Inches
Total Inches Req'd For Area (C)=	**3 Inches Required**
Egress Width Provided:	
4 Door(s) @ 32 inches =	128 Inches
Total Inches Provided For Area (C)=	**128 Inches Provided**

Area D

Occupant Load Calculation Per IBC 1004.1.2 Table:

Tire Shop Area (F-1 Industrial) =	6,090 SF
6,090 SF @ 300 SF GROSS =	21 Occupants
Total Occupant Load For Area (D)=	**21 Occupants**
Egress Width Required Per IBC 1005.3:	
0.2 Inches Per Occupant @ 21 Occupants =	4.2 Inches
Total Inches Req'd For Area (D)=	**4.2 Inches Required**
Egress Width Provided:	
2 Door(s) @ 32 inches =	64 Inches
Total Inches Provided For Area (D)=	**64 Inches Provided**

Area E

Occupant Load Calculation Per IBC 1004.1.2 Table:

Tire Shop Area (S-1 Industrial) =	701 SF
701 SF @ 100 SF GROSS =	8 Occupants
Total Occupant Load For Area (E)=	**8 Occupants**
Egress Width Required Per IBC 1005.3:	
0.2 Inches Per Occupant @ 8 Occupants =	1.6 Inches
Total Inches Req'd For Area (E)=	**1.6 Inches Required**
Egress Width Provided:	
2 Door(s) @ 32 inches =	64 Inches
Total Inches Provided For Area (E)=	**64 Inches Provided**

Egress Path

Exit Path	Exit Travel Distance
A	26' - 2"
B	34' - 6"
C	92' - 4"
D	118' - 10"
E	59' - 7"

DISTANCE OF TRAVEL - TABLE 1016.2 FBC = 200'-0"

HFA ARCHITECTS ENGINEERS INTERIORS

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32025

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Loves® Travel Stop & Country Stores

STATE OF FLORIDA
BOGUE L. EBBRECHT
AR98288
REGISTERED ARCHITECT
MAR 21 2019

Bogue L. Ebbrecht, Architect
License #AR98288
Harrison French & Associates, LTD
COA #AA22601029

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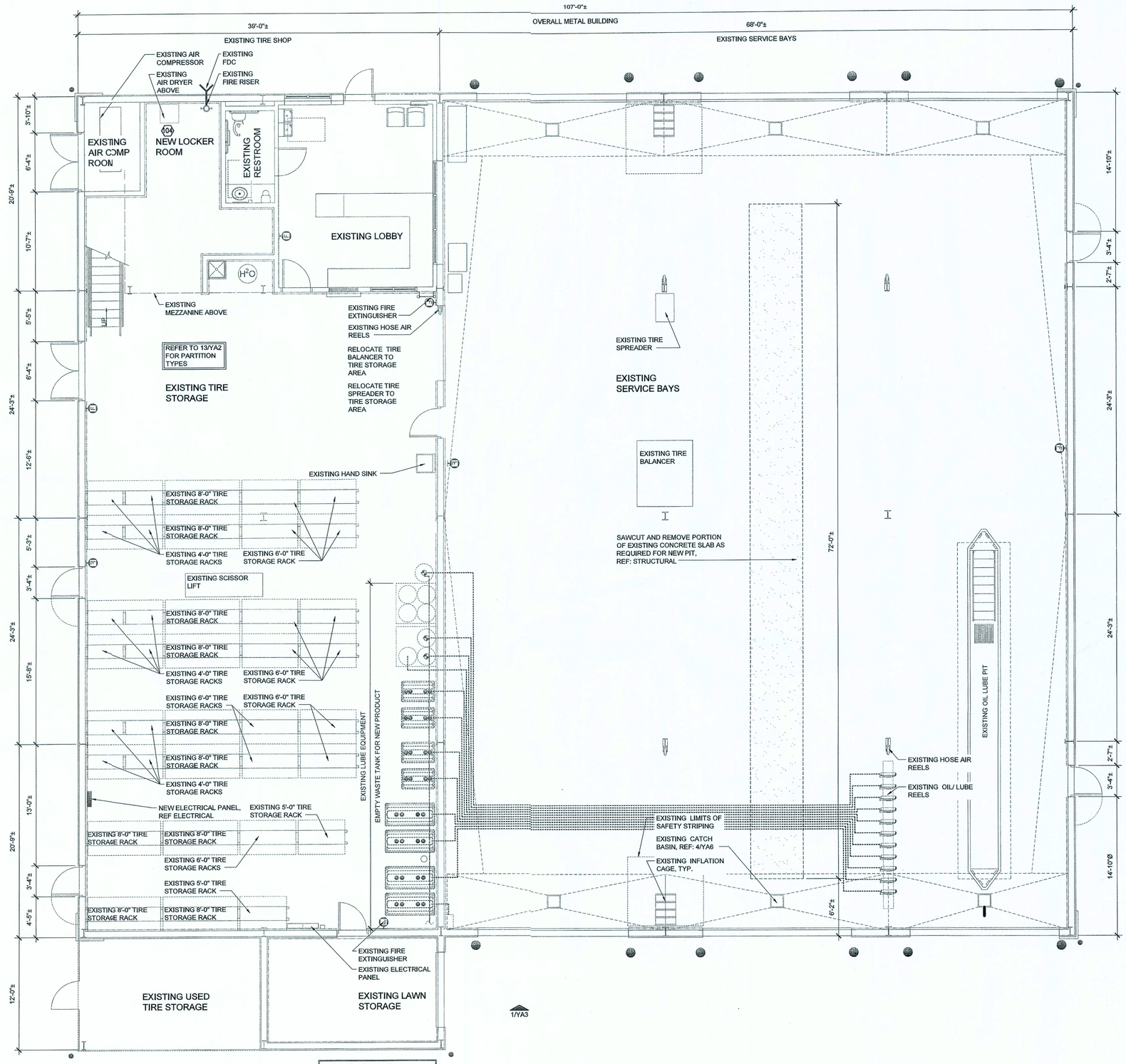
LIFE SAFETY PLAN

SHEET: YLS1



1 DEMOLITION PLAN

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

DEMOLITION LEGEND

- - - - - - - - - - DEMOLISH/REMOVE

———————— EXISTING TO REMAIN

DEMOLITION NOTES

1. ALL DEMOLITION SHALL BE CARRIED OUT IN A SAFE MANNER, AND IN ACCORDANCE WITH OSHA REGULATIONS.

2. THE CONTRACTOR SHALL FIELD VERIFY THE EXTENT OF DEMOLITION. THE WORK INCLUDES, BUT IS NOT LIMITED TO, THE DEMOLITION AND REMOVAL OF PAVING AND FLATWORK, WALLS, PARTITIONS, DOORS, PLUMBING, MECHANICAL AND ELECTRICAL ITEMS INCLUDING CONDUITS AS SHOWN ON THE DRAWINGS OR AS REQUIRED FOR THE INSTALLATION OF THE NEW WORK FOR A COMPLETE JOB.

3. WHEN REMOVING EXISTING STRUCTURAL ITEMS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORING, BRACING AND SUPPORT SYSTEMS TO KEEP THE EXISTING STRUCTURE INTACT AND IN A SAFE CONDITION.

4. PRIOR TO EXCAVATION FOR FOUNDATIONS ADJACENT TO THE EXISTING STRUCTURE, PROVIDE ADEQUATE SUPPORT FOR THE SUB-BASE TO PREVENT UNDERMINING OF THE EXISTING FOUNDATION.

5. SAWCUT AND REMOVE EXISTING EXTERIOR FLATWORK AND PAVING AS REQUIRED FOR NEW CONSTRUCTION. FIELD VERIFY EXTENTS OF DEMOLITION REQUIRED TO ENSURE POSITIVE DRAINAGE AWAY FROM THE BUILDING WHEN CONSTRUCTION IS COMPLETE. EXTENTS OF DEMOLITION SHOWN ON THE ARCHITECTURAL DRAWINGS ARE FOR GRAPHIC REPRESENTATION ONLY AND SHALL NOT BE ASSUMED TO DELINEATE ACTUAL LIMITS OF DEMOLITION REQUIRED.

6. CONDUCT ALL DEMOLITION AND REMOVAL OF DEBRIS AS REQUIRED TO INSURE MINIMUM INTERFERENCE WITH BUILDING/SITE FACILITIES AND OPERATIONS. REMOVE DEMOLISHED MATERIALS FROM SITE AND LEGALLY DISPOSE OF ALL DEBRIS.

7. PROTECT EXISTING PAVING AND STRUCTURES TO REMAIN DURING DEMOLITION AND CONSTRUCTION.

8. NOTES INDICATING DEMOLITION WORK ARE NOT CONFINED SOLELY TO THE DEMOLITION PLANS. THE GENERAL CONTRACTOR SHALL REVIEW ALL CONSTRUCTION DOCUMENTS, INCLUSIVE OF SCHEDULES AND SPECIFICATIONS, TO DETERMINE FULL EXTENT OF DEMOLITION WORK.

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Love's Travel Stop & Country Stores

STATE OF FLORIDA
BOGUE L. EBBRECHT
AR98288
REGISTERED ARCHITECT
MARCH 12, 2019

Bogue L. Ebbrecht, Architect
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Harrison French & Associates, LTD
COA #AA26001029

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DEMOLITION PLAN

SHEET: YD1

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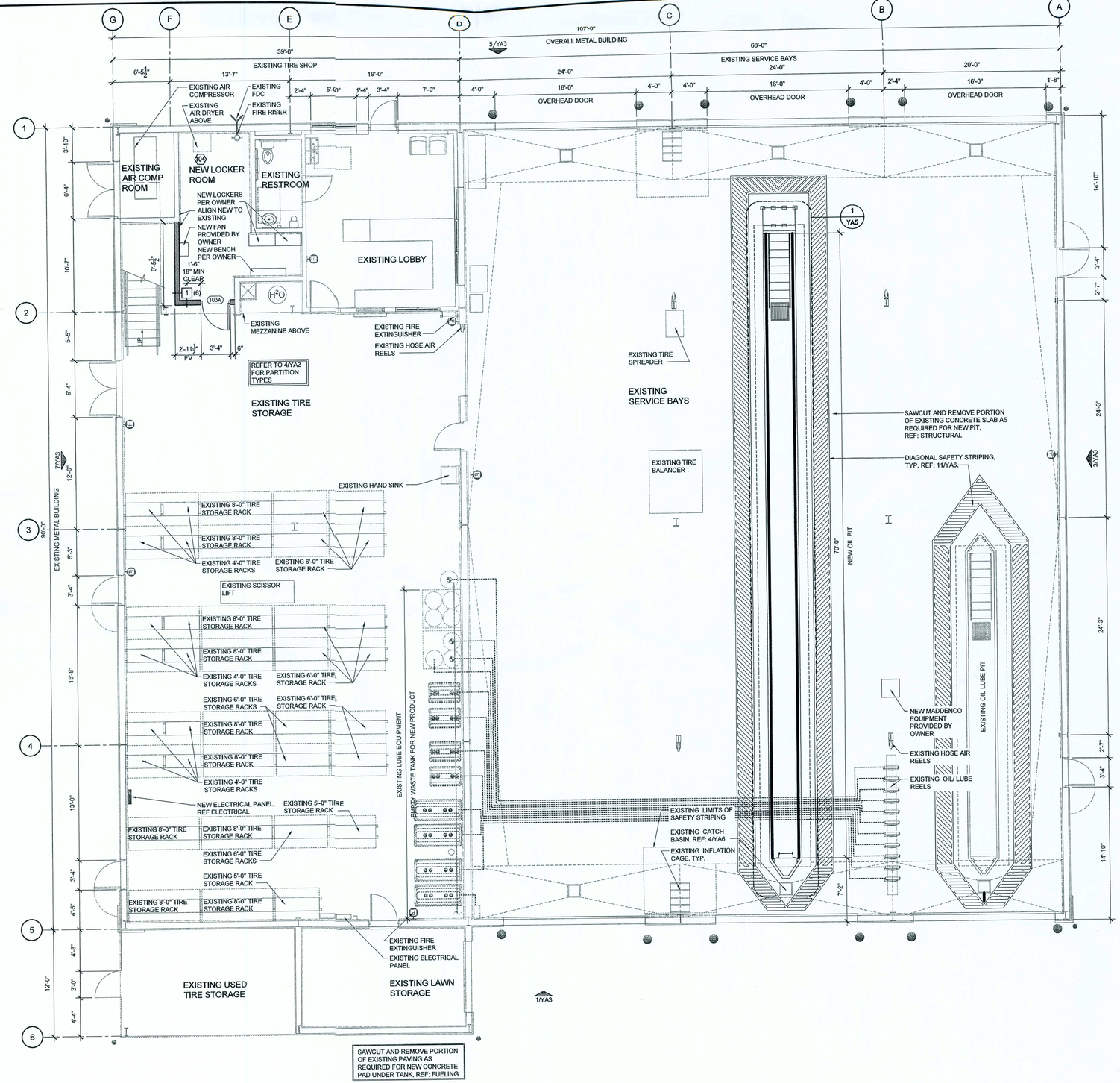

1 OVERALL FLOOR PLAN

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

PLAN LEGEND

EXISTING TO REMAIN

NEW

NOTES:

1. G.C. SHALL PAINT ALL TRIM AND HOLLOW METAL DOORS PER DOOR SCHEDULE. REF: YA2.
2. ITEMS PROVIDED BY OWNER FOR G.C. TO INSTALL: VINYL COVERED BATT INSULATION, DOORS & HARDWARE.
3. FIRE EXTINGUISHERS SHALL BE PROVIDED IN ACCORDANCE WITH ALL CURRENT APPLICABLE CODES.
4. ALL PLYWOOD SHALL MEET THE CLASS C FLAME SPREAD AND SMOKE-DEVELOPED RATING REQUIREMENTS PER ALL CURRENT APPLICABLE CODES.

HFA ARCHITECTS ENGINEERS INTERIORS

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STATE OF FLORIDA
BOGUE L. EBBRECHT
AR98288
REGISTERED ARCHITECT

MAR 20 2019

Bogue L. Ebbrecht, Architect
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COA #AA26001029

ISSUE BLOCK

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FLOOR PLAN

SHEET: YA1

March 20,2019-10:07am - User-ids: pgarrett
MUS0000-19-60724 Loves - Lake City, FL T24\CONDOCS\Architectural\ 115 YA1 FLOOR PLAN.dwg

DOOR FINISH SCHEDULE (HM DOORS PROVIDED BY PRE-ENGINEERED METAL BUILDING MANUFACTURER)
DETAIL REFERENCES ARE TO SHEET YA-2 UNO

XXX

MK	TYPE	SIZE	MATERIAL	FINISH	FRAME	FINISH	GLAZING	HEAD	JAMB	THRESH	REMARKS
103A	A	3'-0"x7'-0"x1 3/4" INSUL.	HM 16 GA	PRE-FINISHED DOOR & FRAME PROVIDED BY OWNER & INSTALLED BY GC	METAL	PAINT	---	2	3	---	NOTE 1, 2 & 3

NOTES:
1.12"X12" LOUVER
2. EGRESS DOORS SHALL BE READILY OPENABLE WITH LEVER STYLE HANDLE FROM THE EGRESS SIDE WITHOUT USE OF A KEY OR SPECIAL KNOWLEDGE.
3. CLOPAY CONTACT: JESSICA WICK; EMAIL: CSI@CLOPAY.COM; PHONE: 800-526-4301

INTERIOR FINISHES
(NOT ALL FINISHES MAY BE USED)

XX

	NO.	TYPE	DESCRIPTION	REMARKS
	53	PAINT	SHERWIN WILLIAMS SW 7038 TONY TAUPE	SATIN FINISH, TO MATCH EXISTING - USED FOR TOUCH UP ONLY
	54	PAINT	SHERWIN WILLIAMS SW 7019 GAUNTLET GRAY	TO MATCH EXISTING - USED FOR TOUCH UP ONLY
	55	PAINT	SHERWIN WILLIAMS - SW 6990 CAVIAR	SATIN FINISH, TYP. ALL PLYWOOD WALLS
	56	PAINT	SHERWIN WILLIAMS - SW 7020 BLACK FOX	TO MATCH EXISTING - USED FOR TOUCH UP ONLY

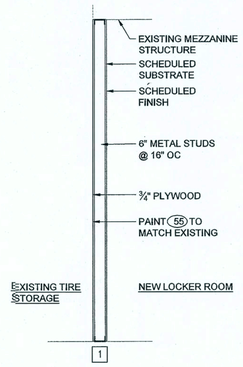
ROOM FINISH SCHEDULE (VERIFY FINISHES)

X

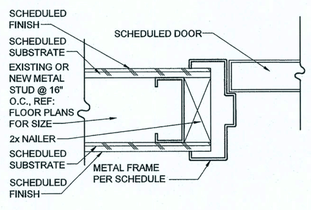
MK	DESCRIPTION	FLOOR	BASE	WALL 1	WALL 2	WALL 3	WALL 4	CEILING	HEIGHT	REMARKS
103	NEW LOCKER ROOM	ETR	---	ETR	ETR	ETR / ¾ PLYWOOD (55)	ETR/ ¾ PLYWOOD (55)	EXPOSED STRUCTURE	---	---

SHEET NOTE:

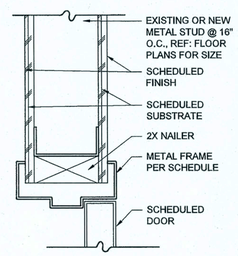
1. **INSTALL WATER RESISTANT 1X4 AT EVERY VERTICAL AND HORIZONTAL BUTT JOINT, TYPICAL FOR ALL PLYWOOD WALL FINISH.**



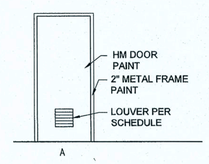
4 PARTITION TYPES
SCALE: 1/2" = 1'-0"



3 JAMB DETAIL
SCALE: 3" = 1'-0"



2 HEAD DETAIL
SCALE: 3" = 1'-0"



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

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13700 S. US HIGHWAY 441
LAKE CITY, FL
32025

SPEEDCO RE-BRANDING
PROJECT NUMBER: 03-19-60724

Loves Travel Stop & Country Stores

MAR 20 2019
STATE OF FLORIDA
BOGUE L. EBBRECHT
AR98288
REGISTERED ARCHITECT

Bogue L. Ebbrecht, Architect
License #AR98288
Harrison French & Associates, LTD
COA #AA226001029

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SCHEDULES & DETAILS

SHEET: YA2

Mar21,2019-10:07am - User:aicha.eggers
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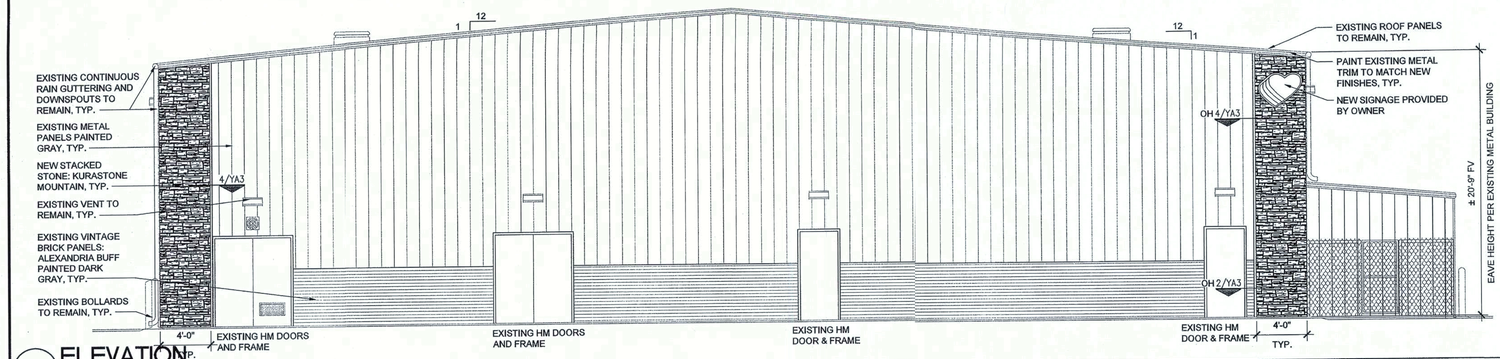
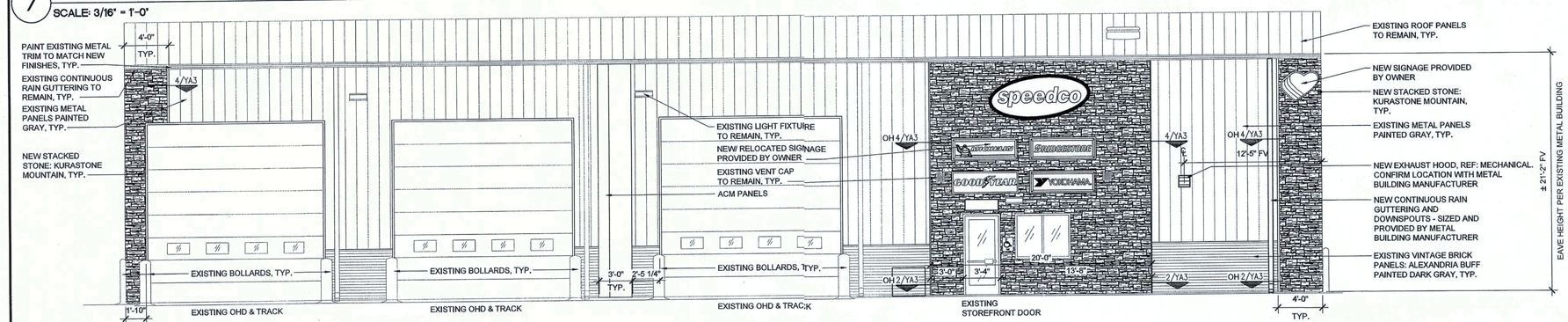
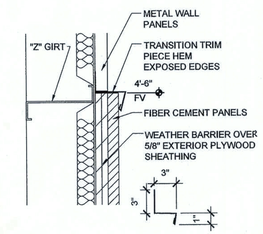


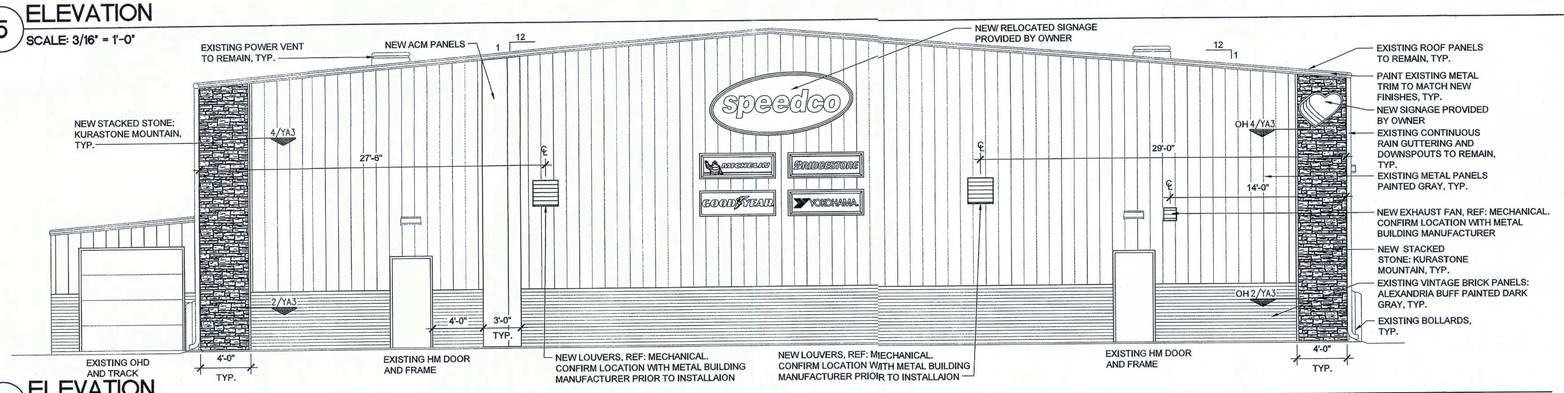
7 ELEVATION
SCALE: 3/16" = 1'-0"



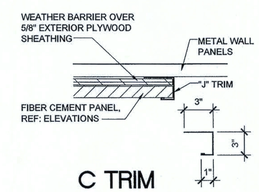
5 ELEVATION
SCALE: 3/16" = 1'-0"



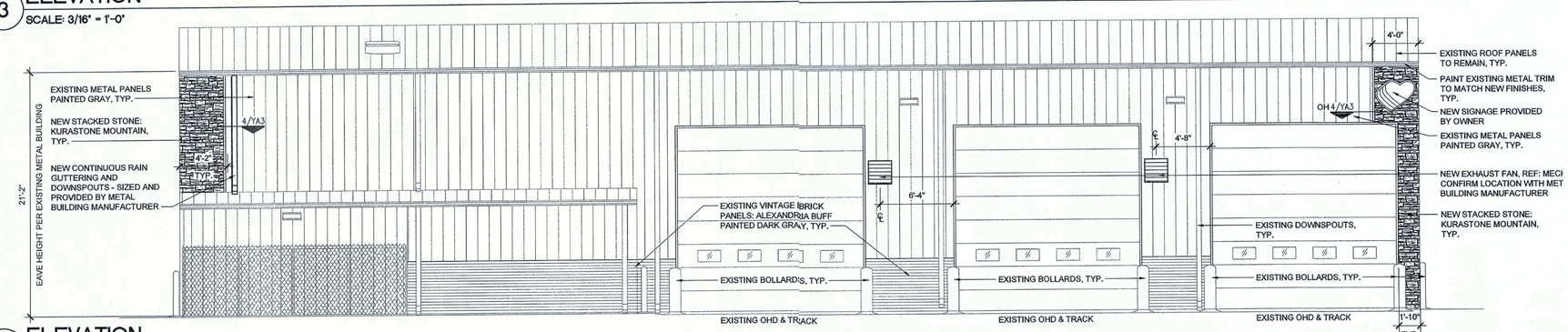
6 HORIZONTAL PANEL TRANSITION DETAIL
SCALE: 1 1/2" = 1'-0"



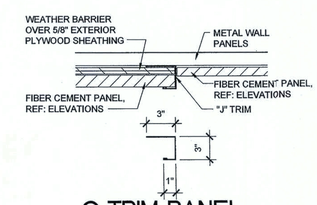
3 ELEVATION
SCALE: 3/16" = 1'-0"



4 C TRIM TRANSITION
SCALE: 1 1/2" = 1'-0"



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



2 C TRIM PANEL TRANSISTION DETAIL
SCALE: 1 1/2" = 1'-0"

SHEET NOTE:

1. EXISTING SIGNAGE TO REMAIN UNLESS NOTED OTHERWISE.
2. NEW CONSTRUCTION TO MATCH EXISTING:
   TRIM: GALLERY BLUE
   NICHIHA HORIZONTAL TRIM: GRAY
   NICHIHA VERTICAL TRIM: GALLERY BLUE
   GUTTERS & DOWNSPOUTS: GALLERY BLUE
   RAKE TRIM: GALLERY BLUE
   OHD TRIM: GALLERY BLUE
3. REFER TO ELECTRICAL SHEETS FOR WALL PACK LIGHTS AND LOCATIONS.
4. REFER TO MECHANICAL SHEETS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF EXHAUST FANS.
5. SEAL HOLES IN METAL BUILDING PANELS AS REQUIRED.
6. PAINT METAL DOOR AND FRAMES TO MATCH ADJACENT WALL COLOR. WHERE DOORS OCCUR IN WALLS WITH TWO COLORS, MATCH BOTTOM COLOR.

FIBER CEMENT PANELS TO BE:

"NICHIHA" KURASTONE-STACKED STONE - MOUNTAIN

GC IS RESPONSIBLE FOR COORDINATING INSTALLATION OF OWNER PROVIDED FIBER CEMENT PANELS BY CERTIFIED NICHIHA INSTALLER.

CONTACT NATIONAL ACCOUNT MANAGER=
VANESSA GRAY OR ADAM COSSICK
LOVES@NICHIHA.COM

P)	678-894-4411	P)	770-805-9466
C)	404-991-8538	C)	770-570-0011
F)	770-805-9467	F)	770-805-9467

GC IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES OF NEW NICHIHA PANELS.

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32025

SPEEDCO RE-BRANDING
PROJECT NUMBER: 03-19-60724

Love's Travel Stop & Country Stores

STATE OF FLORIDA
BOGUE L. EBBRECHT
AR98288
REGISTERED ARCHITECT
MAR 2 2019

Bogue L. Ebbrecht, Architect
License #AR98288
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COA #AA26001029

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EXTERIOR ELEVATIONS & DETAILS

SHEET: YA3

Mar01,2019-10:08am - User:rkirby.eggner
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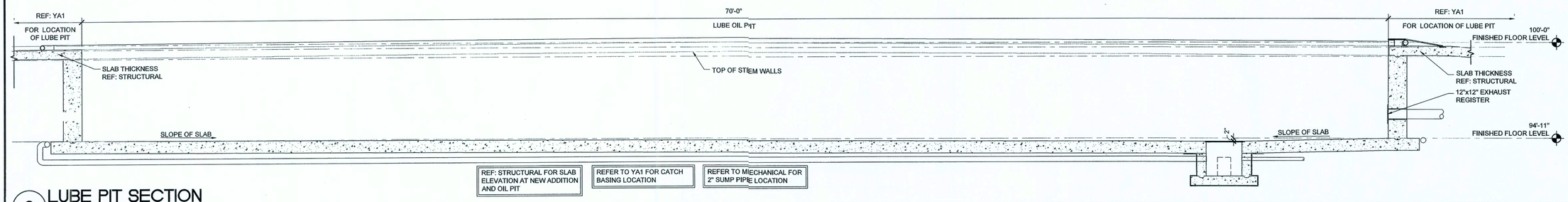
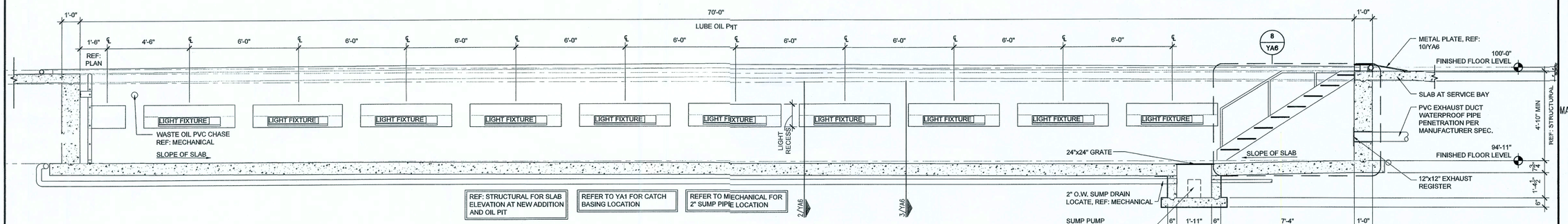


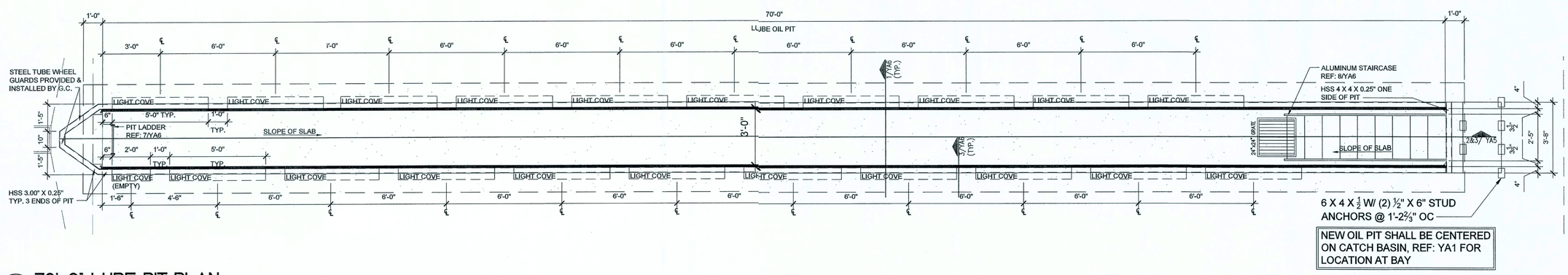
3 LUBE PIT SECTION

SCALE: 3/8" = 1'-0"



2 LUBE PIT SECTION

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



1 70'-0" LUBE PIT PLAN

SCALE: 3/8" = 1'-0"

Mar21,2019-10:09am - User:richo.ioggers
M:\03303-19-60724 Loves - Lake City, FL 724\CONDOCS\Architectural\ 155 YA5 LUBE PIT PLAN & SECTIONS.dwg

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32025

SPEEDCO RE-BRANDING
PROJECT NUMBER: 03-19-60724

Love's Travel Stop & Country Stores

STATE OF FLORIDA
BOGUE L. EBBRECHT
AR98288
REGISTERED ARCHITECT
MAR 21, 2019

Bogue L. Ebbrecht, Architect
License #AR98288
Harrison French & Associates, LTD
COA #AA226001029

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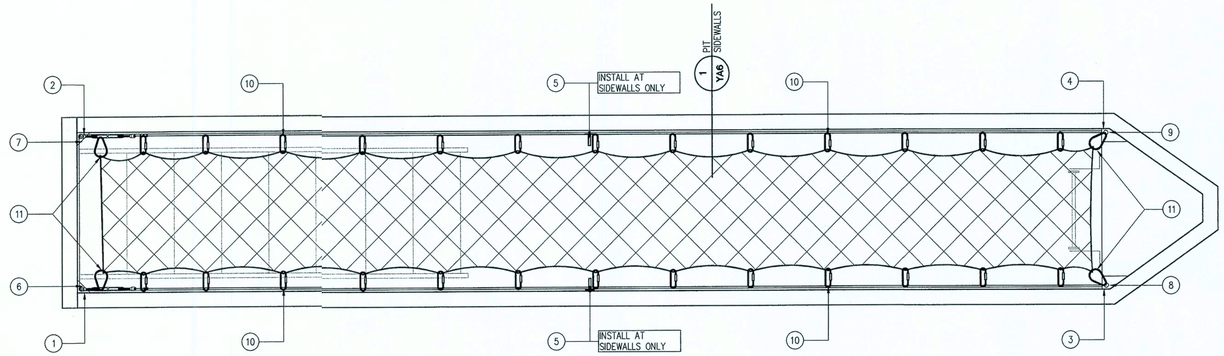
LUBE PIT PLAN & SECTIONS

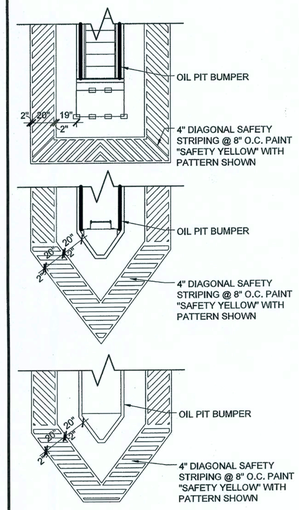
SHEET: YA5

SHEET NOTES:
1. DEVON EZ-GUIDE SAFETY COVER, PROVIDED BY OWNER & INSTALLED BY GC.
2. PAINT LUBE PIT WALLS & FLOOR WITH "SHERWIN WILLIAMS" ARMORSEAL. 100HS-B67-2000 CLEAR BASE WITH GLOSS FINISH

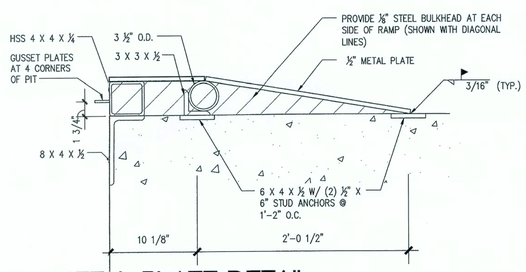
1. GUSSET PLATE 1 BY G.C. REF:6/YA6
2. GUSSET PLATE 2 BY G.C. REF:6/YA6
3. GUSSET PLATE 3 BY G.C. REF:6/YA6
4. GUSSET PLATE 4 BY G.C. REF:6/YA6
5. WELD THE PAD EYE AT MIDDLE OF 73'-8" RUN (NOT NEEDED AT SHORTER 33'-10" LONG PIT) IN A VERTICAL POSITION ON SIDEWALL
6. ATTACH ONE TURNBICKLE VIA THE JAW END TO GUSSET PLATE #1.
7. ATTACH ONE TURNBICKLE VIA THE JAW END TO GUSSET PLATE #2.
8. ATTACH CABLE TO GUSSET PLATE #3. EXTEND THE CABLE TO THE EYE END OF THE TURNBUCKLI AT GUSSET PLATE #1. USE (3) WIRE ROPE CLIPS ON CABLE.
9. ATTACH CABLE TO GUSSET PLATE #4. EXTEND THE CABLE TO THE EYE END OF THE TURNBUCKLI AT GUSSET PLATE #2. USE (3) WIRE ROPE CLIPS ON CABLE.
10. ATTACH QUICKLINKS TO EACH SIDE OF NET 15" APART.
11. ATTACH SPRING SNAP LINKS TO THE NET ON BOTH ENTRANCE AND EXIT SIDES OF NET



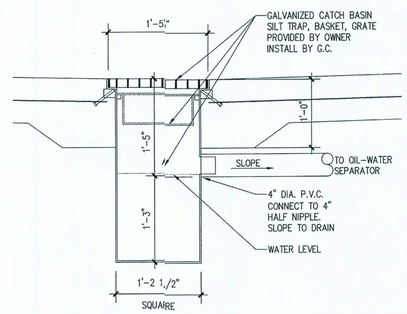
12 PIT SAFETY NETTING DETAIL
SCALE: 1" = 1'-0"



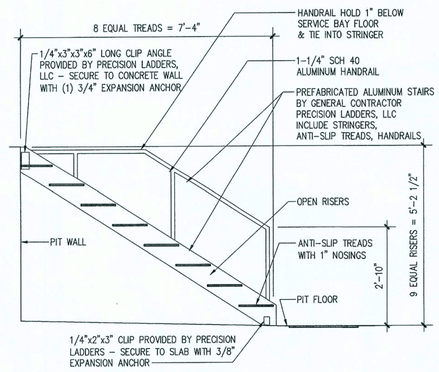
11 ENLARGED STRIPING DETAIL
SCALE: 3/16" = 1'-0"



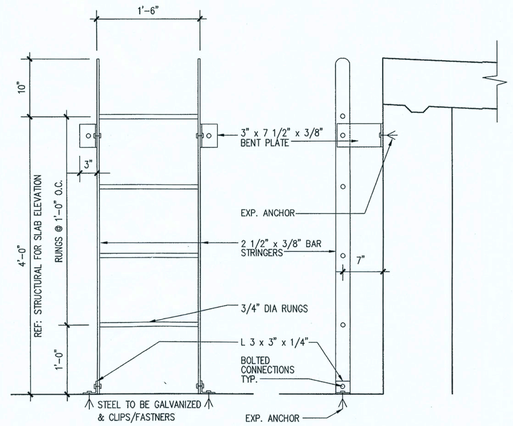
10 METAL PLATE DETAIL
SCALE: 1-1/2" = 1'-0"



9 CATCH BASIN
SCALE: 1" = 1'-0"



8 STAIR SECTION
SCALE: 1/2" = 1'-0"



7 LADDER SECTION
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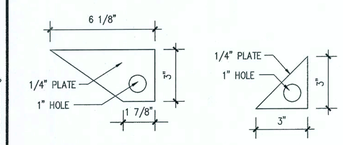
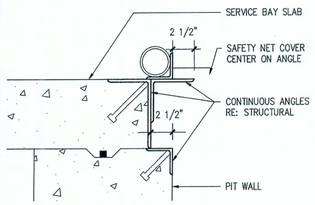
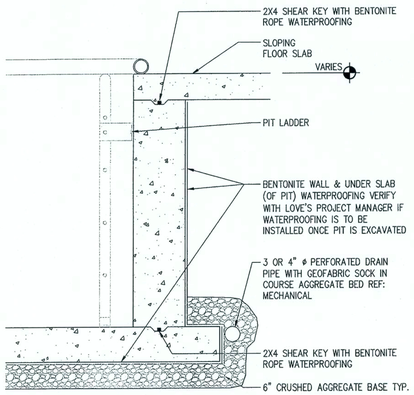


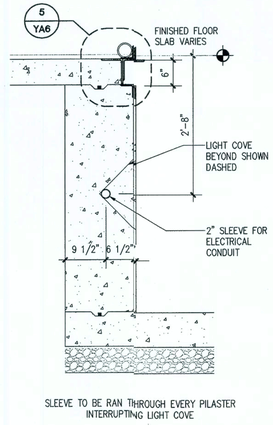
6 PLATE DETAIL
SCALE: 3" = 1'-0"



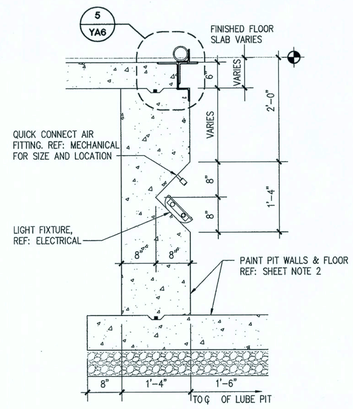
5 RAIL DETAIL
SCALE: 1 1/2" = 1'-0"



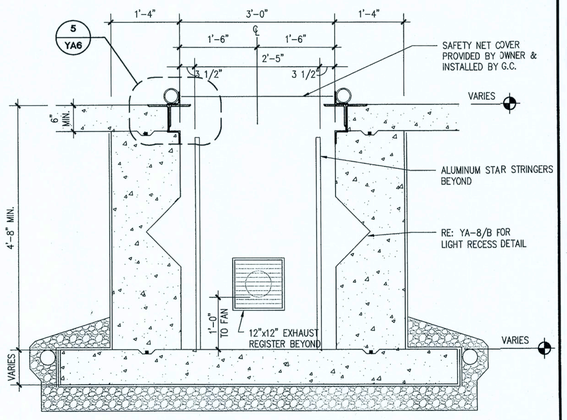
4 PIT WATERPROOFING
SCALE: 3/4" = 1'-0"



3 WALL SECTION
SCALE: 3/4" = 1'-0"



2 LIGHT RECESS (WALL) SECTION
SCALE: 3/4" = 1'-0"



1 LUBE PIT SECTION
SCALE: 3/4" = 1'-0"

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SPEEDCO RE-BRANDING
PROJECT NUMBER: 03-19-60724

Love's Travel Stop & Country Stores

STATE OF FLORIDA
BOGUE L. EBBRECHT
AR96288
REGISTERED ARCHITECT
MARCH 27, 2019

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LUBE PIT SECTIONS & DETAILS

SHEET: YA6

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M:\03703-19-60724 Loves - Lake City, FL 724\CONDOCS\Architectural\ 169 YA6 LUBE PIT SECTIONS & DETAILS.dwg

CONSTRUCTION SAFETY GENERAL NOTE

THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS, SINCE THESE ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY.

CONCRETE GENERAL NOTES

1. All detailing, fabrication and placing of reinforcing steel shall conform to the ACI standard "Details and Detailing of Concrete Reinforcement" (ACI 315).
2. Concrete mix designs shall meet the following requirements:

Location	Minimum Compressive Strength (psi)	Maximum Aggregate Size	Maximum Water/Cement Ratio	Slump (in.)	Air Entrainment Percent (%)
Interior Slabs	4000	3/4"	.50	4 ±1	0
Exterior Slabs	3500	3/4"	.50	4 ±1	6 ±1
Perimeter Foundations	3000	1"	.50	4 ±1	6 ±1

3. Reinforcing bars #4 and larger (except ties and stirrups) shall meet ASTM A615 with Supplementry Requirements (S1), Grade 60. Smaller bars shall be grade 40.
4. All reinforcing bar splices shall be 44 bar diameters.
5. All reinforcing bar hooks shall be ACI standard 90 degree hook, unless noted otherwise.
6. All bars are to be supported in forms and spaced with wire bar supports per ACI "Manual of Standard Practice for Detailing Concrete Structures" (latest edition). Bars shall be securely wired per latest edition of CRSI's "Recommended Practice for Placing Reinforcing Bars". Accessories for exposed concrete shall be plastic or have plastic-tipped feet.
7. The top of concrete pedestal shall be square, smooth & level to receive the metal building base plates.
8. Smooth dowels shall be steel conforming to ASTM A36.
9. All slots, sleeves and other embedded items such as strap-tie holdowns shall be set before concrete is placed. See Architectural, Electrical, Mechanical and vendor's drawings for sizes & locations.
10. Electrical conduit to be placed below slab shall be located by electrician prior to placement of slabreinforcements. Slab shall be thickened in these areas to accommodate a minimum of 3" top covering and 3" bottom clearance.
11. Fly ash shall not be used unless approved in writing by the Engineer. Fly ash, if approved, shall conform to ASTM C618 and shall not exceed 15% of the total cement volume.
12. All concrete is reinforced unless specifically called out as unreinforced. Reinforce all concrete not otherwise shown with same steel as in similar sections or areas.
13. No aluminum items shall be embedded in any concrete or placed in contact with concrete.
14. Concrete coverage of reinforcement shall have the following clear distances unless noted otherwise on the drawings:
    - Cast against earth: 3"
    - Formed concrete exposed to earth or weather: 2"
    - Slabs not exposed to earth or weather: 1"
    - Beams & columns not exposed to weather: 1 1/2"
15. Embedded and all reinforcing bars marked continuous shall be embedded to develop the full tension capacity of the bar. Laps shall be Class B tension lap unless specified otherwise on the drawings. Unless shown otherwise, splice top bars near midspan and splice bottom bars over supports.
16. Supply corner bars 4'-0" long (min. 2'-0" in each direction) in outside face of wall at corners of all walls and continuous footings, matching size and spacing of horizontal bars. Where there are no vertical bars in outside face of wall, supply three (3) #4 vertical support bars for corner bars.
17. Concrete placed during cold weather shall conform to the requirements of ACI 306R-10. Cold weather is defined as a period when, for more than 3 successive days, the mean daily temperature drops below 40°F.
18. Concrete placed during hot weather shall conform to the requirements of ACI 305R-10. Hot weather is defined as that combination of air temperature, relative humidity and wind speed that will cause a rate of evaporation of 0.2 lb/sq.ft./hr. or more as defined by Figure 2.1.5 of ACI 305R-10.
19. Do not add water to concrete during delivery, at Project Site, or during placement, unless approved by the Engineer of Record.
20. Reinforcing shall have the following lap splice and hook lengths:

Lap Splice & Hook Lengths		
Bar Size	Lap Splice	Hook
#4	2'-0"	8"
#5	2'-6"	10"
#6	3'-0"	1'-0"
#7	3'-6"	1'-2"
#8	4'-0"	1'-4"

21. Maximum net allowable bearing pressure for footings = 3,000 psf. Bottom of footings shall bear on approved compacted structural fill in the Soils Report Project Number EQ165133 dated January 10, 2017 by Terracon Consultants Inc. Bottom of footings shall bear at or below minimum bearing depth. Minimum bearing depth is 18" below lowest adjacent finished grade.

STRUCTURAL STEEL GENERAL NOTES

1. All detailing, fabrication and erection of structural steel shall conform to the requirements of the AISC Specification for the Design, Fabrication and Erection of Structural Steel for Buildings.
2. Hollow Structural Section (HSS) shall conform to ASTM A500, Grade B with a yield strength of 46ksi.
3. W-Shapes shall conform to ASTM A992 with a yield strength of 50 ksi. All other structural steel slall conform to the requirements of ASTM A36.
4. All anchor rods shall conform to ASTM F1554, Grade 36. Nuts for anchor rods shall conform to ASTM A563, Grade A, heavy hex and anchor rod washers shall conform to FS F-W-92.
5. All welding shall conform to the Specifications of the American Welding Society. Welding electrodes shall be E-70 series. Welding shall be done by a certified welder.
6. All bolts shall be tightened to a snug-tight condition. A snug tight condition is defined as the tightness attained by a few impacts of an impact wrench or the full effort of a man using an ordinary spud wrench. All connected elements must be brought into snug contact.
7. Bearing ends of all columns shall be square cut.
8. No openings shall be cut in structural members unless shown on the drawings.
9. Anchor rod holes in base plates shall be sized in accordance with AISC "Detailing for Steel Constuction".

REQUIRED SPECIAL INSPECTIONS

(BY TESTING AGENCY)

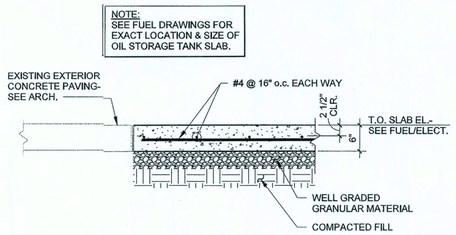
IN ADDITION TO THE REGULAR INSPECTIONS REQUIRED BY SECTION 110, THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH SECTION 1704, 1706 & 1707 OF THE 2017 FBC.

ITEM	SECTION
Concrete Construction	
- Reinforcing Steel Installation	Table 1705.3
- Cast-in Place Anchor Bolts	Table 1705.3
- Verify Design Mix	Table 1705.3
- Fresh Concrete Sampling	Table 1705.3
- Concrete Placement	Table 1705.3
- Concrete Curing Operations	Table 1705.3
- Evaluation of Concrete Strength	Table 1705.3

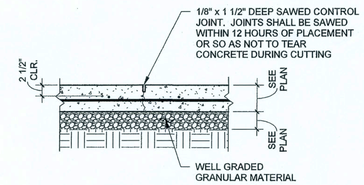
REQUIRED SPECIAL INSPECTION NOTES:
1. General Contractor shall coordinate any additional special inspection requirements with Owner and applicable building authorities.
2. Special Inspections are the responsibility of the Owner.
3. The names of persons or firms who are to perform the Special Inspections shall be forwarded to the Building Official for approval.
4. The Special Inspector(s) shall complete and submit all forms required by the Local Jurisdiction.

TYPICAL STRUCTURAL ABBREVIATIONS

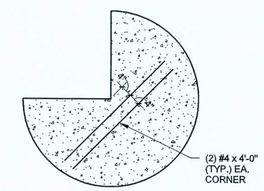
ACI	AMERICAN CONCRETE INSTITUTE	EXP.	EXPANSION	PED	PEDESTAL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	FLR.	FLOOR	PL	PLATE
A.R.	ANCHOR ROD	FDN.	FOUNDATION	PLF	POUNDS PER LINEAR FOOT
ARCH.	ARCHITECT	FTG.	FOOTING	PROJ.	PROJECTION
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	F.S.	FAR SIDE	PSF	POUNDS PER SQUARE FOOT
BLDG.	BUILDING	GA.	GAUGE	PSI	POUNDS PER SQUARE INCH
BM.	BEAM	GALV.	GALVANIZED	R	RADIUS
BOTT.	BOTTOM	HK.	HOOK	REINF.	REINFORCEMENT
BRG.	BEARING	HORIZ.	HORIZONTAL	REQ'D	REQUIRED
℄	CENTERLINE	H.S.A.	HEADED STUD ANCHOR	RTU	ROOF TOP UNIT
CLR.	CLEAR	I.F.	INSIDE FACE	SCHED.	SCHEDULE
COL.	COLUMN	JBE	JOIST BEARING ELEVATION	SECT.	SECTION
CONC.	CONCRETE	JST.	JOIST	SIM.	SIMILAR
CONN.	CONNECTION	JT.	JOINT	SJI	STEEL JOIST INSTITUTE
CONT.	CONTINUOUS	LG.	LONG	S.O.G.	SLAB-ON-GRADE
CTRD.	CENTERED	LLH	LONG LEG HORIZONTAL	SPA.	SPACING
DEG. or °	DEGREE	LLV	LONG LEG VERTICAL	SPECS	SPECIFICATIONS
DIA. or Ø	DIAMETER	LONG.	LONGITUDINAL	STD.	STANDARD
DIM.	DIMENSION	MAX.	MAXIMUM	STIFF.	STIFFENER
DN	DOWN	MBM	METAL BUILDING MANUFACTURER	STL.	STEEL
do	DITTO	MECH.	MECHANICAL	TOC	TOP OF CONCRETE
DTL.	DETAIL	MFR.	MANUFACTURER	TOF	TOP OF FOOTING
DWG.	DRAWING	MIN.	MINIMUM	TOG	TOP OF GRADE BEAM
DWL.	DOWEL	MISC.	MISCELLANEOUS	TOW	TOP OF WALL
EA.	EACH	MTL.	METAL	TRANS.	TRANSVERSE
EL.	ELEVATION	N.S.	NEAR SIDE	TYP.	TYPICAL
EQ.	EQUAL	o.c.	ON CENTER	U.N.O.	UNLESS NOTED OTHERWISE
EW	EACH WAY	O.F.	OUTSIDE FACE	VERT.	VERTICAL
EXIST.	EXISTING	OPNG.	OPENING	W/	WITH
		PAF	POWDERED ACTUATED FASTENER	W.P.	WORK POINT
				WWF	WELDED WIRE FABRIC



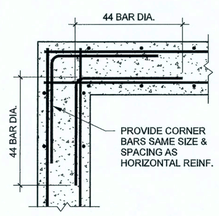
6 **OIL STORAGE TANK SLAB SECTION**
3/4" = 1'-0"



5 **TYP. SLAB-ON-GRADE CONTROL JOINT DETAIL**
3/4" = 1'-0"

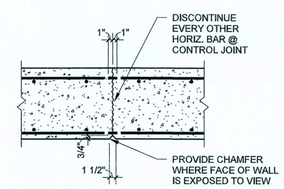


4 **SECTION**
1/2" = 1'-0"



12" CONCRETE WALL

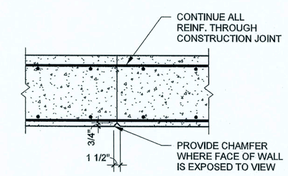
3 **TYP. CONCRETE WALL CORNER DETAIL**
NOT TO SCALE



16" CONCRETE WALL

NOTE: LOCATE CONTROL JOINT AT 24'-0" o.c. MAXIMUM.

2 **TYP. CONCRETE WALL CONTROL JT. DETAIL**
NOT TO SCALE



16" CONCRETE WALL

NOTE: CONSTRUCTION JOINT MAY BE SUBSTITUTED FOR CONTROL JOINT.

1 **TYP. CONCRETE WALL CONSTRUCTION JT. DETAIL**
NOT TO SCALE

HFA ARCHITECTS ENGINEERS INTERIORS

HARRISON FRENCH & ASSOCIATES, LTD
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Bentonville, Arkansas 72712
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13700 S. US HIGHWAY 441
LAKE CITY, FL
32025

SPEEDCO RE-BRANDING

PROJECT NUMBER: 03-19-80724

Loves® Travel Stop & Country Stores

LUNGSHEN TSAO
74480
STATE OF FLORIDA
PROFESSIONAL ENGINEER
3/15/19

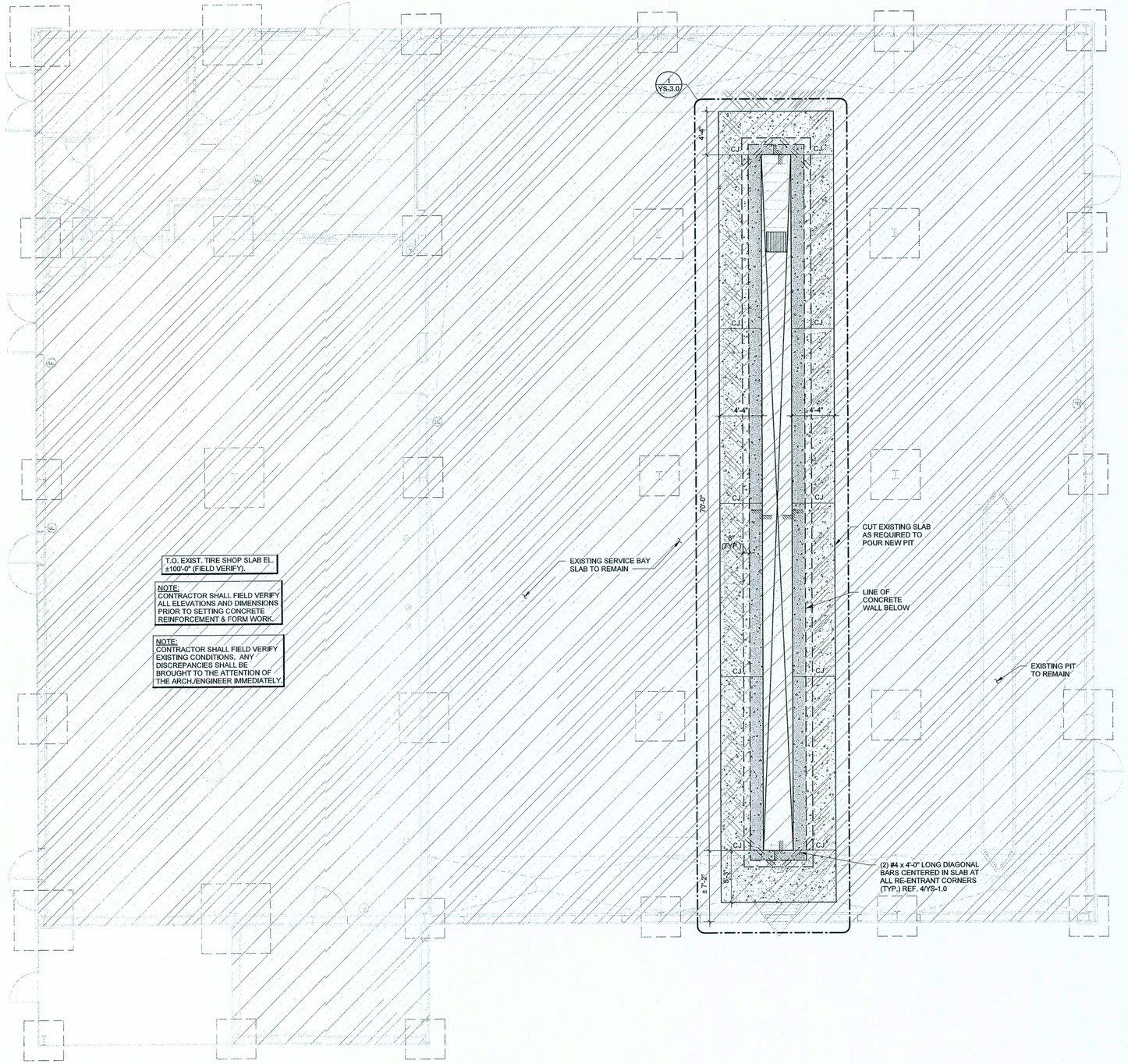
Lungshen Tsao, P.E.
License #74480
Harrison French & Associates, LTD
COA #26421

ISSUE BLOCK

STORE NO.	724
DOCUMENT DATE:	03/15/19
CHECKED BY:	LST
DRAWN BY:	JWK
PROTO CYCLE:	

GENERAL NOTES & TYPICAL DETAILS

SHEET: **YS-1.0**



1 PIT FOUNDATION PLAN

3/16" = 1'-0"

PLAN NOTES:

1. 6" CONCRETE SLAB REINFORCED W/ #3 @ 16" EA. WAY AT MID-DEPTH ON STEGO 15 MIL CLASS A VAPOR BARRIER OVER ASTM CLASS C33 No. 57 CLEAN CRUSHED ROCK BACKFILL.
2. "CJ" DENOTES CONTROL JOINT. PROVIDE 1/8" x 1 1/2" DEEP SAWED CONTROL JOINT. JOINTS SHALL BE SAWED WITHIN 12 HOURS OF PLACEMENT OR SO AS NOT TO TEAR CONCRETE DURING CONSTRUCTION.
3. ALL ELEVATIONS ARE BASED ON EXISTING FINISH FLOOR EL. 100'-0". FIELD VERIFY ACTUAL FINISH FLOOR ELEVATION.
4. SEE ARCH./CIVIL DWGS. FOR DIMENSIONS NOT SHOWN.

LEGEND:

O.F.	DENOTES OUTSIDE FACE
	DENOTES 12" OR 16" THICK CONCRETE STEM WALL
±	DENOTES FIELD VERIFY DIMENSION
	DENOTES LIMITS OF 6" SLAB-ON-GRADE (SEE PLAN NOTE #1)
	DENOTES SLAB ELEVATION CHANGE

HFA ARCHITECTS ENGINEERS INTERIORS

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LAKE CITY, FL
32025

SPEEDCO RE-BRANDING

PROJECT NUMBER: 03-19-00724

Love's Travel Stop & Country Stores

LUNGSHEN TSAO 74480 STATE OF FLORIDA PROFESSIONAL ENGINEER 3/15/19

Lungshen Tsao, P.E.
License #74480
Harrison French & Associates, LTD
COA #26421

ISSUE BLOCK

STORE NO.	724
DOCUMENT DATE:	03/15/19
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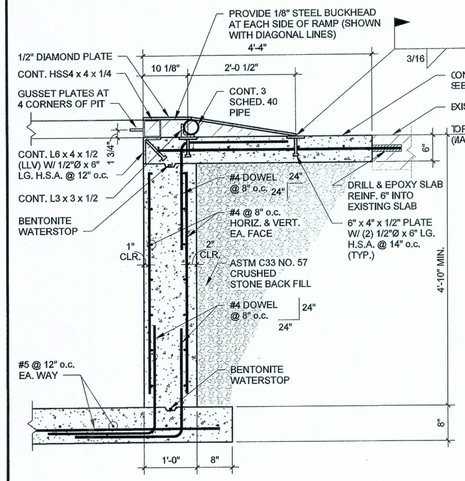
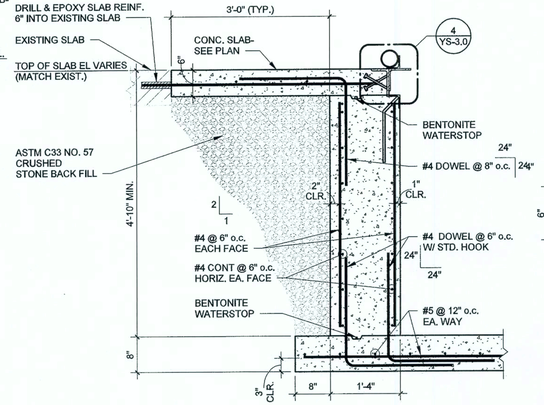
PROTO CYCLE:	

FOUNDATION PLAN

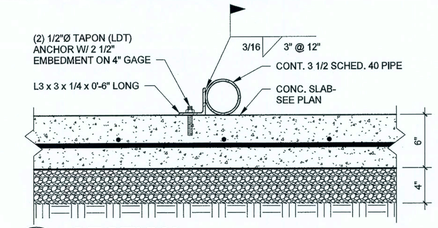
SHEET: YS-2.0



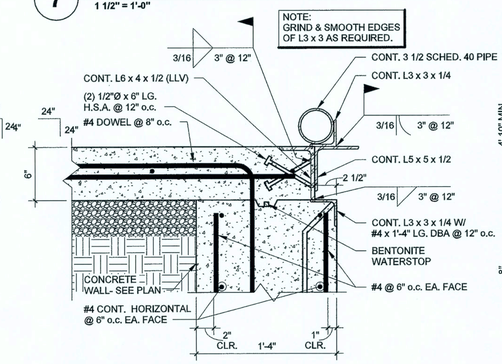
6 SECTION
3/4" = 1'-0"



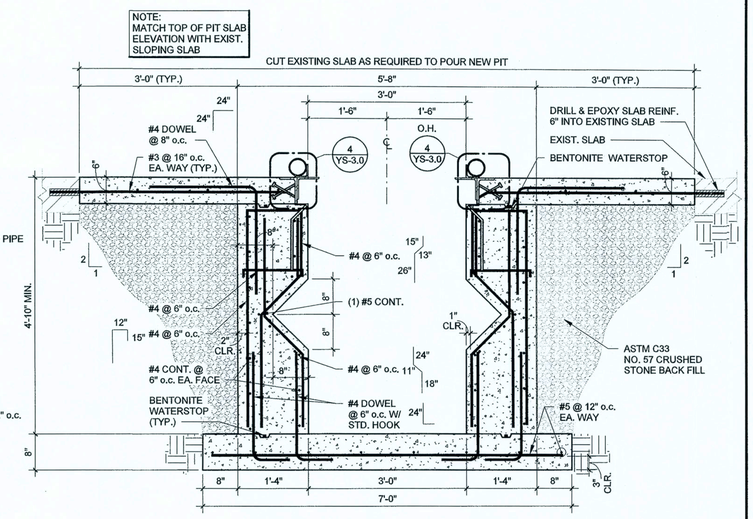
5 SECTION
3/4" = 1'-0"



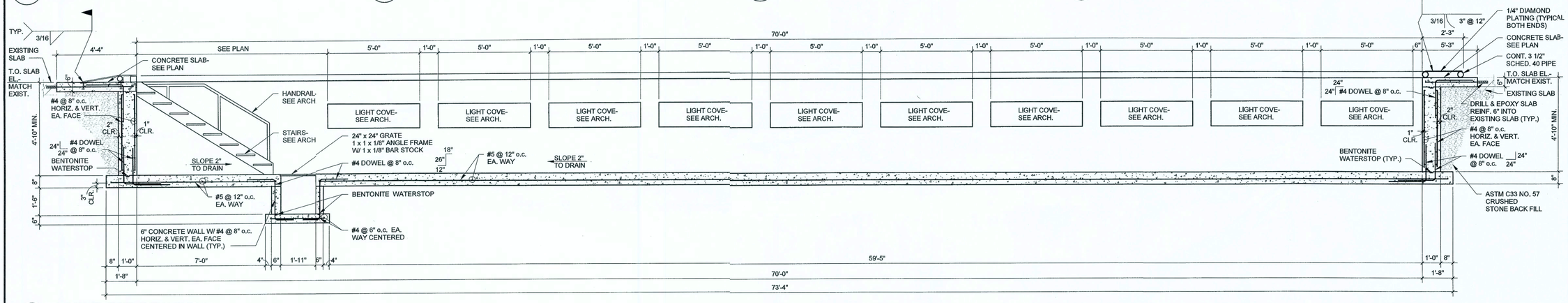
7 SECTION
1 1/2" = 1'-0"



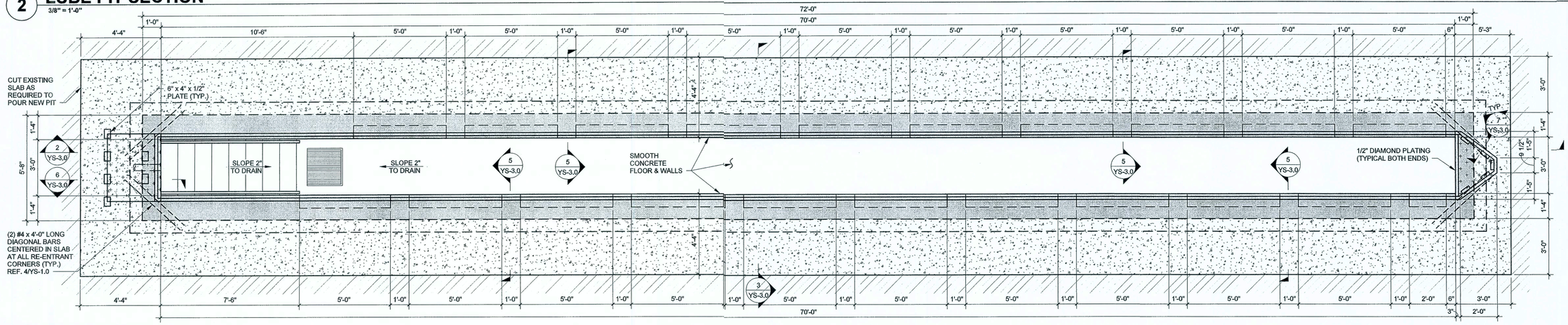
4 SECTION
1 1/2" = 1'-0"



3 SECTION
3/4" = 1'-0"



2 LUBE PIT SECTION
3/8" = 1'-0"



1 LUBE PIT PLAN
3/8" = 1'-0"

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LAKE CITY, FL
32025

SPEEDCO RE-BRANDING
PROJECT NUMBER: 03-19-80724

Love's Travel Stop & Country Stores

Lungshen Tsao, P.E.
License #74480
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ISSUE BLOCK

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LUBE PIT PLAN AND PIT DETAILS

SHEET: **YS-3.0**

DIVISION 15

15A: GENERAL

15A 1-1 GENERAL REQUIREMENTS

REQUIREMENTS UNDER DIVISION ONE AND THE GENERAL AND SUPPLEMENTARY CONDITIONS OF THESE SPECIFICATIONS SHALL BE A PART OF THIS SECTION. CONTRACTOR SHALL BECOME THOROUGHLY ACQUAINTED WITH ITS CONTENTS AS TO REQUIREMENTS THAT AFFECT THIS DIVISION OR SECTION. THE WORK REQUIRED UNDER THIS SECTION INCLUDES MATERIAL, EQUIPMENT, APPLIANCES, TRANSPORTATION, SERVICES, AND LABOR REQUIRED TO COMPLETE THE ENTIRE SYSTEM AS REQUIRED BY THE DRAWINGS AND SPECIFICATIONS.

THE SPECIFICATIONS AND DRAWINGS FOR THE PROJECT ARE COMPLEMENTARY, AND PORTIONS OF THE WORK DESCRIBED IN ONE, SHALL BE PROVIDED AS IF DESCRIBED IN BOTH. IN THE EVENT OF DISCREPANCIES, NOTIFY THE ENGINEER AND/OR OWNER AND REQUEST CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK INVOLVED.

15A 1-2 INSPECTION OF SITE

PRIOR TO SUBMITTING BID, VISIT THE SITE OF THE PROPOSED WORK AND BECOME FULLY INFORMED AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE DONE. FAILURE TO DO SO WILL NOT BE CONSIDERED SUFFICIENT JUSTIFICATION TO REQUEST OR OBTAIN EXTRA COMPENSATION OVER AND ABOVE THE CONTRACT PRICE.

15A 1-3 MATERIAL AND WORKMANSHIP

PROVIDE NEW MATERIAL, EQUIPMENT, AND APPARATUS UNDER THIS CONTRACT UNLESS OTHERWISE STATED HEREIN, OF BEST QUALITY NORMALLY USED FOR THE PURPOSE IN GOOD COMMERCIAL PRACTICE, AND FREE FROM ANY DEFECTS. MODEL NUMBERS LISTED IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS ARE NOT NECESSARILY INTENDED TO DESIGNATE THE REQUIRED TRIM, WRITTEN DESCRIPTIONS OF THE TRIM GOVERN MODEL NUMBERS.

WORK PERFORMED UNDER THIS CONTRACT SHALL PROVIDE A NEAT AND "WORKMANLIKE" APPEARANCE WHEN COMPLETED, TO THE SATISFACTION OF THE ARCHITECT AND ENGINEER. WORKMANSHIP SHALL BE THE FINEST POSSIBLE BY EXPERIENCED MECHANICS. INSTALLATIONS SHALL COMPLY WITH APPLICABLE CODES AND LAWS.

THE COMPLETE INSTALLATION SHALL FUNCTION AS DESIGNED AND INTENDED WITH RESPECT TO EFFICIENCY, CAPACITY, NOISE LEVEL, ETC. ABNORMAL NOISE CAUSED BY RATTLING EQUIPMENT, PIPING, DUCTS, AIR DEVICES, AND SQUEAKS IN ROTATING COMPONENTS WILL NOT BE ACCEPTABLE. IN GENERAL, MATERIALS AND EQUIPMENT SHALL BE OF COMMERCIAL SPECIFICATION GRADE IN QUALITY. LIGHT DUTY AND RESIDENTIAL TYPE EQUIPMENT WILL NOT BE ACCEPTED.

REMOVE FROM THE PREMISES WASTE MATERIAL PRESENT AS A RESULT OF WORK, INCLUDING CARTONS, CRATING, PAPER, STICKERS, AND/OR EXCAVATION MATERIAL NOT USED IN BACKFILLING, ETC. CLEAN EQUIPMENT INSTALLED UNDER THIS CONTRACT TO PRESENT A NEAT AND CLEAN INSTALLATION AT THE TERMINATION OF THE WORK.

REPAIR OR REPLACE PUBLIC AND PRIVATE PROPERTY DAMAGED AS A RESULT OF WORK PERFORMED UNDER THIS CONTRACT TO THE SATISFACTION OF AUTHORITIES AND REGULATIONS HAVING JURISDICTION.

15A 1-4 COORDINATION

COORDINATE WORK WITH THAT OF OTHER TRADES SO THAT THE VARIOUS COMPONENTS OF THE SYSTEMS WILL BE INSTALLED AT THE PROPER TIME, WILL FIT THE AVAILABLE SPACE, AND WILL ALLOW PROPER SERVICE ACCESS TO THOSE ITEMS REQUIRING MAINTENANCE. COMPONENTS WHICH ARE INSTALLED WITHOUT REGARD TO THE ABOVE SHALL BE RELOCATED AT NO ADDITIONAL COST TO THE OWNER.

UNLESS OTHERWISE INDICATED, THE GENERAL CONTRACTOR WILL PROVIDE CHASES AND OPENINGS IN BUILDING CONSTRUCTION REQUIRED FOR INSTALLATION OF THE SYSTEMS SPECIFIED HEREIN. CONTRACTOR SHALL FURNISH THE GENERAL CONTRACTOR WITH INFORMATION WHERE CHASES AND OPENINGS ARE REQUIRED. KEEP INFORMED AS TO THE WORK OF OTHER TRADES ENGAGED IN THE CONSTRUCTION OF THE PROJECT, AND EXECUTE WORK IN A MANNER AS TO NOT INTERFERE WITH OR DELAY THE WORK OF OTHER TRADES.

FIGURED DIMENSIONS SHALL BE TAKEN IN PREFERENCE TO SCALE DIMENSIONS. CONTRACTOR SHALL TAKE HIS OWN MEASUREMENTS AT THE BUILDING, AS VARIATIONS MAY OCCUR. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ERRORS THAT COULD HAVE BEEN AVOIDED BY PROPER CHECKING AND INSPECTION.

PROVIDE MATERIALS WITH TRIM THAT WILL PROPERLY FIT THE TYPES OF CEILING, WALL, OR FLOOR FINISHES ACTUALLY INSTALLED. MODEL NUMBERS LISTED IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS ARE NOT INTENDED TO DESIGNATE THE REQUIRED TRIM.

15A 1-5 ORDINANCES AND CODES

WORK PERFORMED UNDER THIS CONTRACT SHALL, AT A MINIMUM, BE IN CONFORMANCE WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES HAVING JURISDICTION. EQUIPMENT FURNISHED AND ASSOCIATED INSTALLATION WORK PERFORMED UNDER THIS CONTRACT SHALL BE IN STRICT COMPLIANCE WITH CURRENT APPLICABLE CODES ADOPTED BY THE LOCAL AHJ INCLUDING ANY AMENDMENTS AND STANDARDS AS SET FORTH BY THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), UNDERWRITERS LABORATORIES (UL), OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME), AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS (ASHRAE), AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) AND OTHER NATIONAL STANDARDS AND CODES WHERE APPLICABLE. WHERE THE CONTRACT DOCUMENTS EXCEED THE REQUIREMENTS OF THEIR REFERENCED CODES, STANDARDS, ETC., THE CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE.

PROCURE AND PAY FOR PERMITS AND LICENSES REQUIRED FOR THE ACCOMPLISHMENT OF THE WORK HEREIN DESCRIBED. WHERE REQUIRED, OBTAIN, PAY FOR AND FURNISH CERTIFICATES OF INSPECTION TO OWNER. CONTRACTOR WILL BE HELD RESPONSIBLE FOR VIOLATIONS OF THE LAW.

15A 1-6 PROTECTION OF EQUIPMENT AND MATERIALS

STORE AND PROTECT FROM DAMAGE EQUIPMENT AND MATERIALS DELIVERED TO JOB SITE. COVER WITH WATERPROOF, TEAR-RESISTANT, HEAVY TARP OR POLYETHYLENEPLASTIC AS REQUIRED TO PROTECT FROM PLASTER, DIRT, PAINT, WATER, OR PHYSICAL DAMAGE. EQUIPMENT AND MATERIAL THAT HAS BEEN DAMAGED BY CONSTRUCTIONACTIVITIES WILL BE REJECTED, AND CONTRACTOR IS OBLIGATED TO FURNISH NEW EQUIPMENT AND MATERIAL OF A LIKE KIND.

KEEP PREMISESROOM CLEAN FROM FOREIGN MATERIAL CREATED DURING WORK PERFORMED UNDER THIS CONTRACT. PIPING, EQUIPMENT, ETC., SHALL HAVE A NEAT AND CLEAN APPEARANCE AT THE TERMINATION OF THE WORK.

PLUG OR CAP OPEN ENDS OF DUCTWORK AND PIPING SYSTEMS WHILE STORED OR INSTALLED DURING CONSTRUCTION WHEN NOT IN USE TO PREVENT THE ENTRANCE OF DEBRIS INTO THE SYSTEMS.

KEEP THE MANUFACTURER PROVIDED PROTECTIVE COVERINGS ONFLOOR DRAINS, FLOOR SINKS, AND TRENCH DRAINS DURINGCONSTRUCTION. REMOVE COVERINGS AT THE TERMINATION OF THE WORK AND POLISH EXPOSED SURFACES.

15A 1-7 OPERATON AND MAINTENANCE INSTRUCTIONS

COLLECT AND COMPILE A COMPLETE BROCHURE OF FIXTURES, MATERIALS, AND EQUIPMENT FURNISHED AND INSTALLED ON THIS PROJECT. INCLUDE OPERATIONAL AND MAINTENANCE INSTRUCTIONS, MANUFACTURER'S CATALOG SHEETS, WIRING DIAGRAMS, PARTS LISTS, APPROVED SHOP DRAWINGS, AND DESCRIPTIVE LITERATURE FURNISHED BY THE MANUFACTURER. INCLUDE AN INSIDE COVER SHEET THAT LISTS THEPROJECT NAME, DATE, OWNER, ARCHITECT, ENGINEER, GENERAL CONTRACTOR, SUBCONTRACTOR, AND AN INDEX OF CONTENTS.

SUBMIT COPIESOF LITERATURE BOUND IN APPROVED BINDERS TO THE ARCHITECT AND OWNER AT THE TERMINATION OF THE WORK. PAPER CLIPS, STAPLES, RUBBER BANDS AND MAILING ENVELOPES ARE NOT CONSIDERED APPROVED BINDERS. FINAL APPROVAL OF PLUMBING SYSTEMS WILL BE WITHHELD UNTIL THIS EQUIPMENT BROCHURE IS DEEMED COMPLETE BY THE ARCHITECT, ENGINEER, AND OWNER.

15A 1-8 WARRANTIES

WARRANT EACH SYSTEM AND EACH ELEMENT THEREOF AGAINST ALL DEFECTS DUE TO FAULTY WORKMANSHIP, DESIGN OR MATERIAL FOR A PERIOD OF 12 MONTHS FROM DATE OF SUBSTANTIAL COMPLETION, UNLESS SPECIFIC ITEMS ARE NOTED TO CARRY A LONGER WARRANTY IN THE CONSTRUCTION DOCUMENTS OR MANUFACTURER'S STANDARD WARRANTY EXCEEDS 12 MONTHS. REMEDY ALL DEFECTS, OCCURRING WITHIN THE WARRANTY PERIOD(S), AS STATED IN THE GENERAL CONDITIONS AND DIVISION 1.

WARRANTIES SHALL INCLUDE LABOR AND MATERIAL. MAKE REPAIRS OR REPLACEMENTS WITHOUT ANY ADDITIONAL COSTS TO THE OWNER.

PERFORM THE REMEDIAL WORK PROMPTLY, UPON WRITTEN NOTICE FROM THE ENGINEER OR OWNER.

AT THE TIME OF SUBSTANTIAL COMPLETION, DELIVER TO THE OWNER ALL WARRANTIES, IN WRITING AND PROPERLY EXECUTED, INCLUDING TERM LIMITS FOR WARRANTIES EXTENDING BEYOND THE ONE YEAR PERIOD, EACH WARRANTY INSTRUMENT BEING ADDRESSED TO THE OWNER AND STATING THE COMMENCEMENT DATE AND TERM.

15A 1-9 CUTTING AND PATCHING

PERFORM CUTTING OF WALLS, FLOORS, CEILINGS, ETC. AS REQUIRED TO INSTALL WORK UNDER THIS SECTION. DO NOT CUT OR DISTURB STRUCTURAL MEMBERS WITHOUT PRIOR APPROVAL FROM THE ARCHITECT. CUT HOLES AS SMALL AS POSSIBLE. GENERAL CONTRACTOR SHALL PATCH WALLS, FLOORS, ETC. AS REQUIRED BY WORK UNDER THIS SECTION. PATCHING SHALL MATCH THE ORIGINAL MATERIAL AND CONSTRUCTION. REPAIR AND REFINISH AREAS DISTURBED BY WORK TO THE CONDITION OF ADJOINING SURFACES IN A MANNER SATISIACTORY TO THE ARCHITECT.

15A 1-10 ROUGH-IN

COORDINATE WITHOUT DELAY ROUGHING-IN WITH GENERAL CONSTRUCTION. CONCEAL PIPING AND CONDUIT ROUGH-IN EXCEPT IN UNFINISHED AREAS AND WHERE OTHERWISE SHOWN.

15A 1-11 STRUCTURAL STEEL

STRUCTURAL STEEL USED FOR PIPE SUPPORTS, EQUIPMENT SUPPORTS, ETC., SHALL BE NEW, CLEAN, AND CONFORM TO ASTM DESIGNATION A-36.

SUPPORT PLUMBING AND MECHANICAL EQUIPMENT AND PIPING FROM THE BUILDING STRUCTURE. DO NOT SUPPORT PLUMBING EQUPMENT FROM CEILINGS, OTHER MECHANICAL OR ELECTRICAL COMPONENTS, AND OTHER NON-STRUCTUFAL ELEMENTS.

15A 1-12 ACCESS DOORS

PROVIDE ACCESS DOORS IN CEILINGS AND WALLS WHERE INDICATED OR REQUIRED FOR ACCESS TO CONCEALED VALVES AND EQUIPMENT INSTALLED UNDER THIS SECTION. PROVIDE CONCEALED HINGES, SCREWDRIVER-TYPE LOCK, ANCHOR STRAPS; MANUFACTURED BY MILCOR, ZURN, TITUS, OR EQUAL. OBTAIN ARCHITECT'S APPROVAL OF TYPE, SIZE, LOCATION, ANDCOLOR BEFORE ORDERING.

15A 1-13 PENETRATIONS

SEAL FLOOR, EXTERIOR WALL AND ROOF PENETRATIONS WATER AND WEATHER TIGHT WITH APPROPRIATE NON-SHRINK, NON-HARDENING COMMERCIAL CONSTRUCTION SEALANT. SEAL ROOF PENETRATIONS WITH 4 POUND PER SQUARE FOOT LEAD FLASHING. PROVIDE A SLEEVE, AND SEAL NON-FIRE-RATED FLOOR AND WALL PENETRATIONS WITH FIBERGLASS PACKING AND SILICONE CAULK (FOR ACOUSTICAL INSULATION).

COORDINATE FIRE RATING REQUIREMENTS AND LOCATIONS WITH THE ARCHITECT. SEAL PENETRATIONS OF FIRE-RATED ASSEMBLIES WITH 3M # CP-25 FIRE BARRIER CAULK (PROVIDE THICKNESS AND METHOD AS REQUIRED AND RECOMMENDED BY MANUFACTURER) TO MAINTAIN THE FIRE RESISTANCE RATING OF FIRE-RATED ASSEMBLIES.

SEAL EXTERIOR WALL PENETRATIONS BELOW GRADE WITH CAST IRON WALL PIPES AND MODULAR MECHANICAL SLEEVE SEALS, MANUFACTURED BY THUNDERLINE/LINK SEAL, CALPICO, INC AND METRAFLEX.

PROVIDE SLEEVES FOR HORIZONTAL PIPE PASSING THROUGH OR UNDER FOUNDATION. SLEEVES SHALL BE CAST IRON SOIL PIPE TWO NOMINAL PIPE SIZES LARGER THAN THE PIPE SERVED.

PROVIDE SLEEVES FOR VERTICAL PIPE PASSING THROUGH SLAB ON GRADE. SLEEVES SHALL BE SCHEDULE 40 PVC PIPE, TWO NOMINAL PIPE SIZES LARGER THAN THE PIPE SERVED. SEAL WATER-TIGHT WITH SILICONE CAULK.

15B: HEATING, VENTILATION, AND AIR CONDITIONING

15B 1-1 DUCTWORK

ALL DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS CORRESPONDING TO THE SYSTEM PRESSURE. DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS FOR A TWO-INCH PRESSURE RATING AND SEAL CLASS B.

INSTALL VTR'S, EXHAUST FANS, AND FLUES A MINIMUM OF 5'-0" FROM PARAPET OR OUTSIDE WALL AND 10'-0" MINIMUM FROM EQUIPMENT WITH OUTSIDE AIR INTAKE.

15B 1-2 ELECTRICAL WIRING

LINE VOLTAGE WIRING SHALL BE FURNISHED BY ELECTRICAL CONTRACTOR. LINE VOLTAGE CONTROL AND INTERLOCK WIRING FOR MECHANICAL SYSTEMS SHALL ALSO BE FURNISHED BY ELECTRICAL CONTRACTOR. LOW VOLTAGE CONTROL WIRING SHALL BE BY THE DIVISION 15 CONTRACTOR. PROVIDE WIRING DIAGRAMS TO THE ELECTRICAL CONTRACTOR AS REQUIRED FOR PROPER EQUIPMENT HOOKUP. COORDINATE WITH THE ELECTRICAL CONTRACTOR THE ACTUAL WIRE SIZING AMPS FOR MECHANICAL EQUIPMENT (FROM THE EQUIPMENT NAMEPLATE) TO ENSURE PROPER INSTALLATION.

ALL TEMPERATURE SENSORS, FAN SWITCHES, AND SPEED CONTROLS SHALL BE INSTALLED 43" ABOVE THE FLOOR FOR ADA REQUIREMENTS.

15B 1-3 FINAL TESTING AND ADJUSTMENTS

AIR BALANCE SHALL BE PERFORMED BY AN INDEPENDENT AIR BALANCE CONTRACTOR. BALANCE EACH SUPPLY, RETURN, OUTSIDE AIR DEVICE WITHIN 5% OF REQUIREMENTS AND FURNISH A REPORT TO THE CONSTRUCTION MANAGER. THE ENTIRE HVAC SYSTEM MUST BE FULLY OPERABLE, BALANCED, AND APPROVED BY OWNER'S REPRESENTATIVE ON THE DAY TENANT OPENS FOR BUSINESS.

ADJUST THERMOSTATS AND CONTROL DEVICES TO OPERATE AS INTENDED. ADJUST BURNERS, PUMPS, FANS, ETC. FOR PROPER AND EFFICIENT OPERATION. CERTIFY TO ARCHITECT THAT ADJUSTMENTS HAVE BEEN MADE AND THAT SYSTEM IS OPERATING SATISFACTORILY. CALIBRATE, SET AND ADJUST AUTOMATIC TEMPERATURE CONTROLS. CHECK PROPER SEQUENCING OF INTERLOCK SYSTEMS, AND OPERATION OF SAFETY CONTROLS.

15C: PLUMBING

15C 1-1 PIPING MATERIALS

MATERIALS SPECIFIED OR NOTED ON THE DRAWINGS ARE SUBJECT TO THE APPROVAL OF LOCAL CODE AUTHORITIES. VERIFY APPROVAL BEFORE INSTALLING ANY MATERIAL OR JOINING METHOD.

GAS PIPING: GAS PIPING SHALL BE BLACK STEEL, STANDARD WEIGHT, SCHEDULE 40 ASTM A53. PIPING 2" AND SMALLER SHALL BE WELDED OR THREADED WITH MALLEABLE IRON FITTINGS. PIPING 2 1/2" AND LARGER SHALL BE WELDED WITH BUTT-WELDED FITTING. FITTINGS SHALL CONFORM TO ASME B16.3, MALLEABLE IRON OR ASTM A 234, FORGED STEEL WELDED TYPE.

COMPRESSED AIR PIPING: COMPRESSED AIR PIPING SHALL BE BLACK STEEL, STANDARD WEIGHT, SCHEDULE 40 ASTM A53. PIPING 2" AND SMALLER SHALL BE WELDED OR THREADED WITH MALLEABLE IRON FITTINGS. PIPING 2 1/2" AND LARGER SHALL BE WELDED WITH BUTT-WELDED FITTING. FITTINGS SHALL CONFORM TO ASME B16.3, MALLEABLE IRON OR ASTM A 234, FORGED STEEL WELDED TYPE. EXTERIOR PIPING SHALL HAVE EPOXY PAINT.

15C 1-3 PIPING INSTALLATION

GENERAL: CLEAN PIPE THOROUGHLY PRIOR TO INSTALLATION. REAM ENDS OF PIPE TO REMOVE BURRS. CUT PIPE ACCURATELY TO MEASUREMENTS TAKEN ON THE JOB. INSTALL WITH ADEQUATE CLEARANCE FOR INSTALLATION OF COVERINGS WHERE REQUIRED. PIPE SHALL NOT BE SPRUNG OR BENT. NEATLY ALIGN PIPE, CONNECT IT SECURELY, AND SUPPORT IT FROM THE BUILDING STRUCTURE WITH HANGERS AS SPECIFIED BELOW. PROVIDE CHROME-PLATED ESCUTCHEONS ON PIPES PASSING THROUGH CEILINGS, FLOORS OR WALLS OF FINISHED SPACES. RUN PIPES FREELY THROUGH FLOOR AND WALL PENETRATIONS USING PIPE SLEEVES. DO NOT GROUT IN PLACE UNLESS REQUIRED FOR STRUCTURAL FIRE INTEGRITY. INSTALL PIPE CONCEALED IN FINISHED SPACES WHEREVER POSSIBLE. USE A DIELECTRIC UNION WHERE FERROUS AND COPPER PIPE CONNECT. DIELECTRIC UNION SHALL HAVE A ZINC STEEL BODY, A THREADED NYLON INSERT, AND INSULATING PRESSURE GASKET. NO FERROUS METAL-TO-COPPER CONNECTION MADE WITHOUT INSULATING UNIONS WILL BE ALLOWED.

HANGER & SUPPORTS: PIPE HANGERS SHALL BE AS DESCRIBED IN THE SPECIFICATIONS BY B-LINE OR EQUAL BY ANVIL, MICHIGAN, TRUSCON, OR UNISTRUT. CONNECT HANGERS TO THE STRUCTURE WITH SIDE BEAM CONNECTORS AND ALL THREAD HANGER RODS. PROVIDE ENGINEERED SUPPORT STRUTS BETWEEN JOISTS AND OTHER STRUCTURAL MEMBERS AS REQUIRED TO PROVIDE A RIGID HANGING INSTALLATION. DO NOT HANG PIPES FROM OTHER PIPES, CONDUIT OR DUCTWORK. PROVIDE HANGER RODS AND SPACE HANGERS AT INTERVALS AS REQUIRED.

15C 1-4 EXTERIOR UTILITY CONNECTIONS

TERMINATE DOMESTIC WATER, STORM, AND SEWER LINES AT A POINT APPROXIMATELY FIVE FEET FROM THE BUILDING WALL, OR AS SHOWN ON THE DRAWINGS. MAKE CONNECTION TO THE VARIOUS SERVICES PROVIDED BY OTHERS AND COORDINATE CONNECTION REQUIREMENTS WITH CIVIL ENGINEER. VERIFY THAT INSTALLATION WILL TIE INTO THE VARIOUS SERVICED PROVIDED BY OTHERS AT THE INDICATED INVERT ELEVATION POINT PRIOR TO INSTALLATION. IF THE INSTALLATION WILL NOT TIE INTO THE INDICATED INVERT ELEVATION POINT WHILE MAINTAINING PROPER FALL, NOTIFY ARCHITECT AND CIVIL ENGINEER SO THAT AN ALTERNATIVE MAY BE DETERMINED.

PROVIDE SERVICE PIPING AND ACCESSORIES REQUIRED TO COMPLETE UTILITY CONNECTIONS THAT ARE NOT FURNISHED BY THE SERVING UTILITY.

15C 1-5 SYSTEM TESTING AND ADJUSTING

UPON COMPLETION OF EACH PHASE OF THE INSTALLATION, TEST EACH SYSTEM IN CONFORMANCE WITH LOCAL CODE REQUIREMENTS AND AS NOTED BELOW. FURNISH LABOR AND EQUIPMENT REQUIRED TO TEST PLUMBING WORK INSTALLED UNDER THIS CONTRACT, AND ASSUME COSTS INVOLVED IN MAKING THE TESTS, AND REPAIRING AND/OR REPLACING DAMAGE RESULTING THEREFROM.

NOTIFY THE ARCHITECT AND THE AUTHORITY HAVING JURISDICTION, THREE (3) WORKING DAYS PRIOR TO MAKING PLUMBING SYSTEM TESTS. LEAVE CONCEALED WORK UNCOVERED UNTIL THE REQUIRED TESTS HAVE BEEN COMPLETED, BUT IF NECESSARY DUE TO CONSTRUCTION PROCEDURE, TESTS ON PORTIONS OF THE WORK MAY BE MADE, AND WHEN SATISFACTORY, THE WORK MAY BE CONCEALED. TEST PIPING BEFORE INSULATION IS INSTALLED, AND BEFORE BACKFILL. PIPES, JOINTS, FLANGES, VALVE STEMS, ETC., SHALL BE LEAK TIGHT. REPAIR OR REPLACE SYSTEM DEFECTS WITH NEW MATERIALS. CAULKING OF DEFECTIVE JOINTS, CRACKS OR HOLES WILL NOT BE PERMITTED. REPEAT TESTS AFTER DEFECTS HAVE BEEN ELIMINATED. MAKE TESTS IN THE PRESENCE OF THE ADMINISTRATIVE AUTHORITY AND/OR THE OWNER'S AUTHORIZED REPRESENTATIVE.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT HIMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING HIS WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

HFA ARCHITECTS ENGINEERS INTERIORS

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LAKE CITY, FL 32025

SPEEDCO REMODEL

PROJECT NUMBER: 03-19-60724

Love's Travel Stop & Country Stores

MAR 15 2019

GREG J. SCHLUTERMAN LICENSE 72212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Greg Schluterman, P.E.
License #72212
Harrison French & Associates, LTD
COA #26421

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MECHANICAL AND PLUMBING SPECIFICATIONS

SHEET: YM1.0

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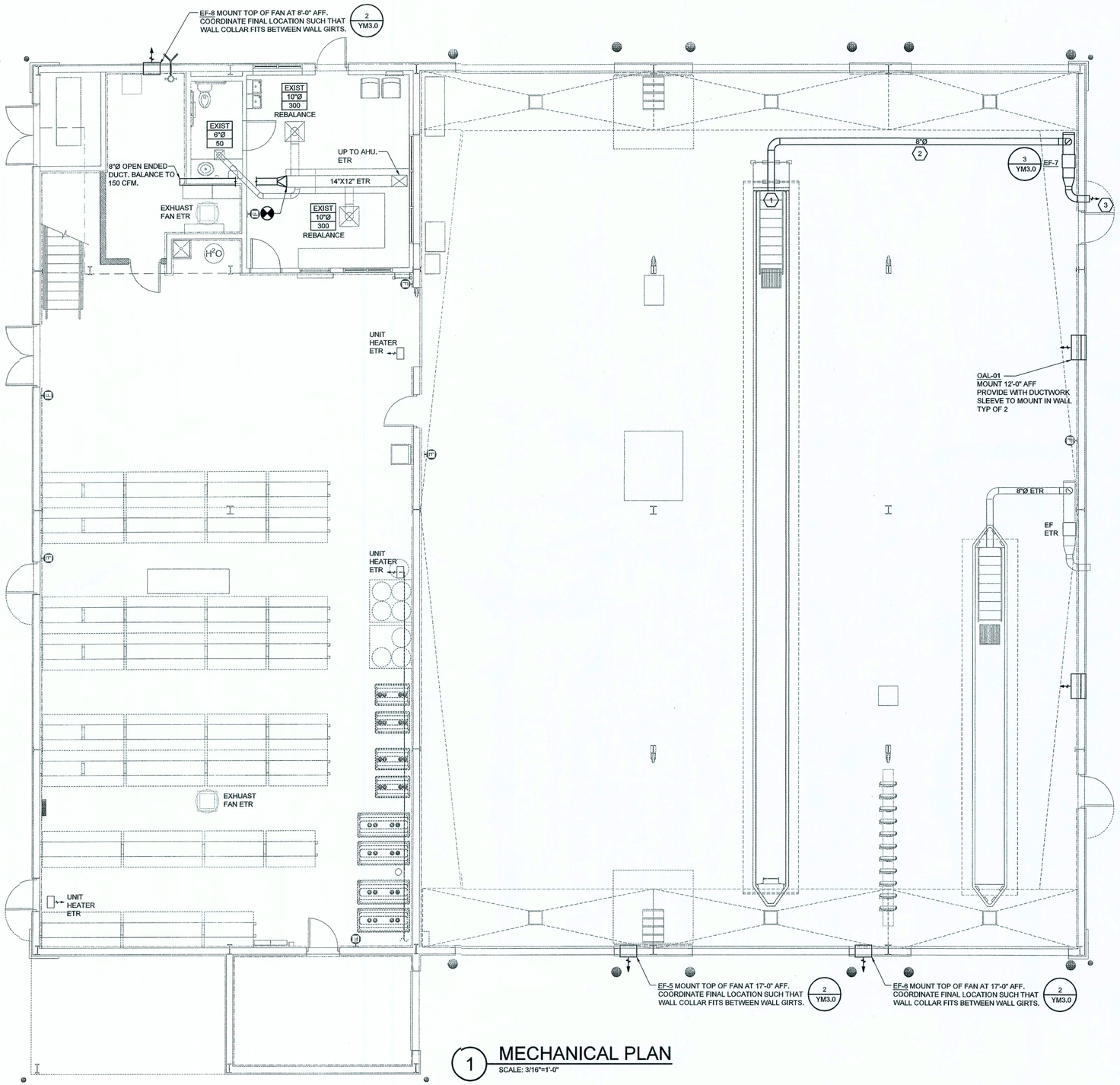

1 MECHANICAL PLAN
SCALE: 3/16"=1'-0"

HVAC NOTES

1. EACH CONTRACTOR IS RESPONSIBLE FOR HAVING THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS AS THEY RELATE TO THIS WORK. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED DUE TO LACK OF THIS KNOWLEDGE.
2. PROVIDE ALL MATERIALS FOR A COMPLETE INSTALLATION IN ALL RESPECTS READY FOR INTENDED USE AND IN STRICT ACCORDANCE WITH STATE AND LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS.
3. VERIFY ALL EXISTING CONDITIONS PRIOR TO STARTING WORK. NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICTS THAT MIGHT ARISE FROM FIELD CONDITIONS.

KEYNOTES

1. 8"Ø PVC VENT STUB OUT WITH BOTTOM OF VENT 12" AFF. INSTALL EXHAUST GRILLE TYPE "A" IN LUBE PIT AREA. SEE AIR DEVICE SCHEDULE ON YM-3.0. LOCATE GRILLE FLUSH WITH WALL CENTERED ON PVC VENT.
2. PIT AREA VENTILATION SYSTEM DUCTWORK; PROVIDE AND INSTALL SCHEDULE 40 PVC ROUND DUCTWORK UNDERSLAB AS INDICATED. COORDINATE DUCTWORK WITH UNDERGROUND PIPING AND FOOTINGS, SLOPE DUCTWORK BACK TO LUBE PITS.
3. HOODED WALL CAP FIELD PAINTED TO MATCH BUILDING EXTERIOR AT 10-FT ABOVE GRADE.

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32025

SPEEDCO REMODEL

PROJECT NUMBER: 03-19-60724

Love's Travel Stop & Country Stores

MAR 15 2019
GREG L. SCHLUTERMAN LICENSE 72212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Greg Schluterman, P.E.
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MECHANICAL FLOOR PLAN

SHEET: YM2.0

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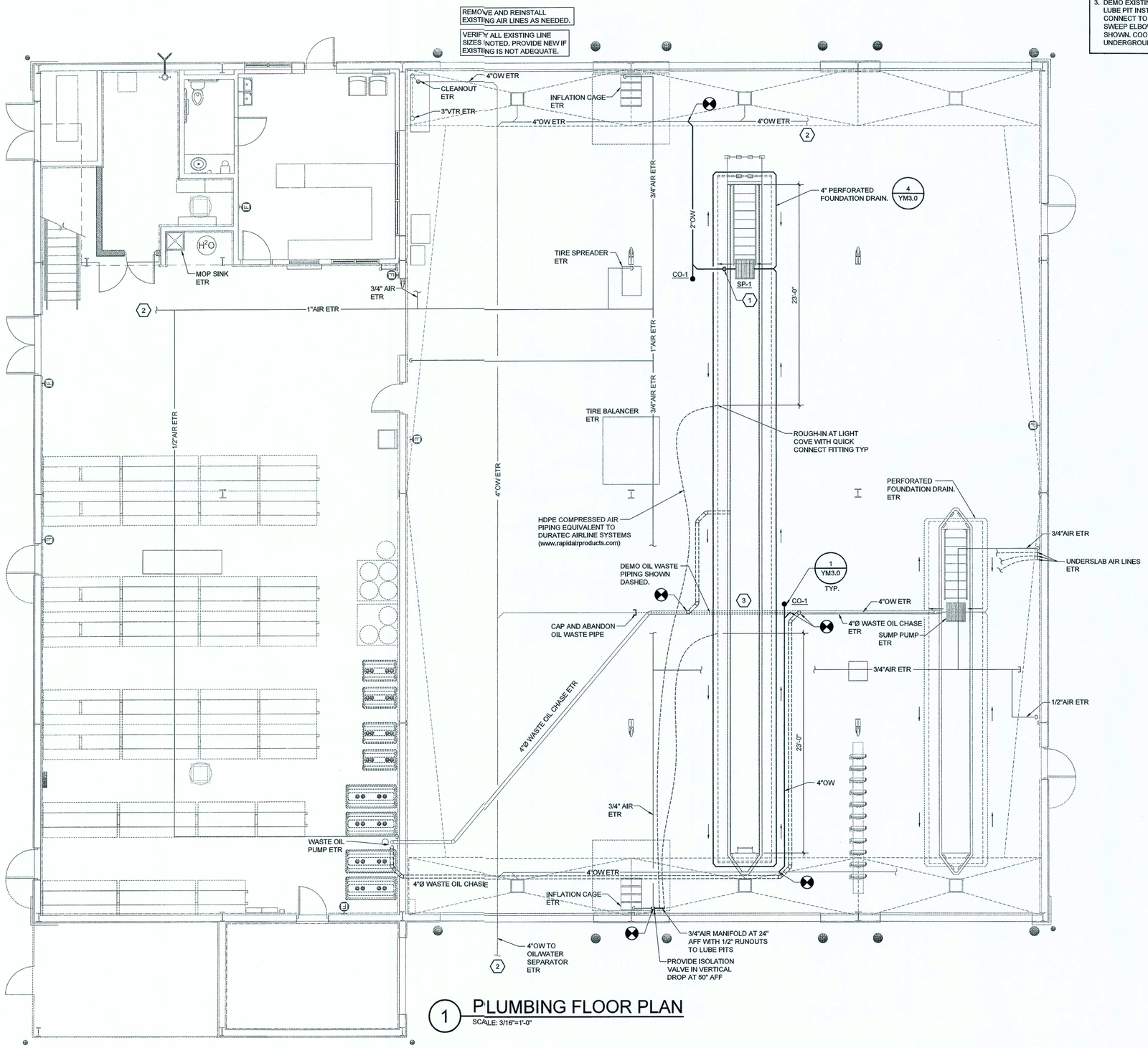
KEYNOTES

1. PUMP DISCHARGE (PD) TO EXIT SUMP PIT AT 16" ABOVE BOTTOM OF SUMP PIT. REF ARCH DETAILS. MAKE CONNECTION TO PUMP WITH HOSE COUPLING FOR QUICK REMOVAL.
2. EXISTING PIPING AND PIPING ACCESSORIES TO REMAIN UNLESS SHOWN OTHERWISE. FIELD VERIFY EXACT LOCATION.
3. DEMO EXISTING WASTE OIL CHASE AS NECESSARY FOR NEW LUBE PIT INSTALLATION. INSTALL NEW CHASE AS SHOWN AND CONNECT TO EXISTING CHASE THAT REMAINS. USE LONG SWEEP ELBOWS WHERE TURNS IN CHASE ROUTING ARE SHOWN. COORDINATE ROUTING OF CHASE WITH UNDERGROUND PIPING AND FOOTINGS.



1 PLUMBING FLOOR PLAN
SCALE: 3/16"=1'-0"

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32025
SPEEDCO REMODEL
PROJECT NUMBER: 03-19-60724

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MAR 15 2019

GREG J. SCHLUTERMAN LICENSE 72212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Greg Schluterman, P.E.
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PLUMBING FLOOR PLAN

SHEET: YM2.1

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AIR DEVICE SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE	NECK SIZE (IN.)	MODULE SIZE	MAX. AIRFLOW RATE (CFM)	STATIC PRESSURE DROP (IN H2O)	THROW @50 FPM (FT)	MAXIMUM NC RATING	PATTERN	THROW DIRECTION	MATERIAL	BORDER	NOTES
A	NAILOR	6145H-HD-AL	EXHAUST	8"Ø	12"X12"	200	0.02	- -	- -	- -	- -	ALUMINUM	SURFACE	1-5

NOTES:
1. BORDER TYPES SHALL BE COMPATIBLE WITH ARCHITECTURAL CEILING TYPE FOR THE ROOM IN WHICH THE AIR DEVICE IS LOCATED.
2. SEE HVAC PLANS FOR LOCATION AND AIR QUANTITIES OF EACH AIR DEVICE.
3. ALL AIR DEVICES SHALL BE TESTED IN ACCORDANCE WITH ASHRAE STANDARD 70-91.
4. NC VALUES ARE BASED UPON A 10 dB ROOM ATTENUATION.
5. OWNER PROVIDED AND CONTRACTOR INSTALLED. REFER TO SPECIFICATIONS

FAN SCHEDULE

MARK	AREA SERVED	MANU.	MODEL	FAN			ELEC.		NOTES
				CFM	RPM	ESP	V/PH/HZ	HP	
EF5	MECHANIC'S BAY	DAYTON	10D968	4240	1750	0.125	120/1/60	3/4	A, C
EF6	MECHANIC'S BAY	DAYTON	10D968	4240	1750	0.125	120/1/60	3/4	A, C
EF7	LUBE PIT	PENNBARRY	SX085RCGP	400	1550	0.4	120/1/60	1/6	C, D, E, F
EF8	LOCKER ROOM	DAYTON	10D952	170	1775	0.25	120/1/60	1/30	A, C

GENERAL INFORMATION:
1. UNITS PROVIDED BY OWNER, INSTALLED BY CONTRACTOR.

NOTES:
A. FAN SHALL BE SWITCHED. REF ELEC.
B. PROVIDE MANUFACTURER INTEGRAL DISCONNECT, GRAVITY BACKDRAFT DAMPER, AND BIRD SCREEN.
C. PROVIDE MANUFACTURER INTEGRAL DISCONNECT, GRAVITY BACKDRAFT DAMPER, BIRD SCREEN, AND WEATHER HOOD.
D. PROVIDE WITH PLUG TYPE DISCONNECT
E. WIRE TO RUN CONTINUOUS
F. PROVIDE WITH 12" X 12" BRICK VENT

PUMP SCHEDULE

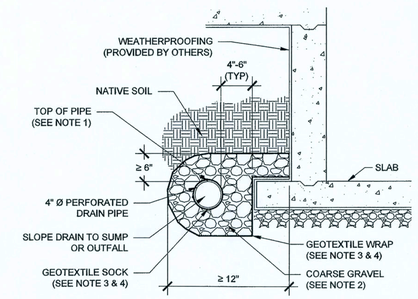
MARK	MANUFACTURER/ MODEL	TYPE	WORKING FLUID	GPM	DISCHARGE PRESSURE (FT)	MOTOR HP	ELEC VOLT/PH	NOTES
SP-1	ZOELLER MIGHTY MATE 53	SUBMERSIBLE SUMP PUMP	OIL/WATER	10	17	1/3	115/1	1

NOTES:
1. PROVIDE WITH DISCHARGE CHECK VALVE AND DECOUPLING UNION.

LOUVER SCHEDULE

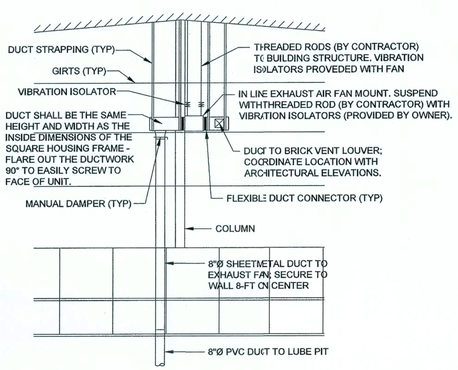
MARK	MANUFACTURER	MODEL	LOCATION	NECK SIZE (IN.)	TYPE	MAX. AIRFLOW RATE (CFM)	STATIC PRESSURE DROP (IN H2O)	FREE AREA (SQ. FT.)	AIR VELOCITY	NOTES
OAL-1	NAILOR	1606CDAF	SERVICE BAY	30"X30"	DRAINABLE	1700	0.08	2.72	625	1-2

1. PROVIDE WITH ALUMINUM BIRD SCREEN.
2. PROVIDE WITH KYNAR/HLAR (70% PVDF) FINISH; COLOR TO BE SELECTED BY ARCHTECT.

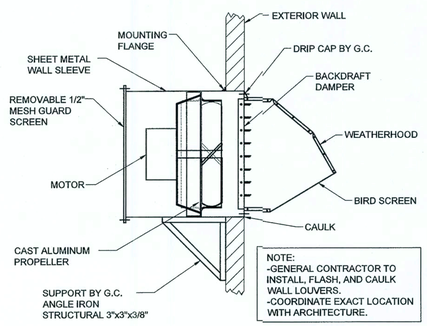


NOTES
1. TOP OF PERFORATED PIPE MUST BE AT OR BELOW THE TOP OF FOOTING.
2. BACKFILL MUST BE SIZED AT LEAST ONE SIEVE SIZE (ROCK SIZE) LARGER THAN DIMENSIONS OF PERFORATIONS, OTHERWISE A GEOTEXTILE WRAP AROUND THE PIPE IS REQUIRED.
3. FOR NATIVE SOIL WITH HIGH SAND CONTENT, A GEOTEXTILE BETWEEN THE BACKFILL AND NATIVE SOIL SHOULD BE USED. FOR NATIVE SOIL WHERE THE CLAY CONTENT EXCEEDS 50% OR THE SILT CONTENT EXCEEDS 40%, A GEOTEXTILE IS NOT REQUIRED AROUND THE PIPE.
4. FOR NATIVE SOIL WITH LESS THAN 50% PASSING THE NO. 200 SIEVE, THE APPARENT OPENING SIZE (AOS) OF THE FABRIC SHOULD BE AT LEAST A NO. 30 SIEVE. FOR NATIVE SOIL WITH MORE THAN 50% PASSING THE NO. 200 SIEVE, THE AOS OF THE FABRIC SHOULD BE AT LEAST A NO. 50 SIEVE.

4 FOUNDATION & SUBSURFACE DRAIN INSTALLATION
NTS

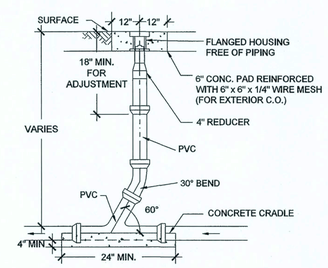


3 TIRE SHOP EXHAUST FAN SECTION
NTS



NOTE:
-GENERAL CONTRACTOR TO INSTALL, FLASH, AND CAULK WALL LOUVERS.
-COORDINATE EXACT LOCATION WITH ARCHITECTURE.

2 WALL EXHAUST FAN DETAIL
NTS



SECTION VIEW

NOTES:
1. COVER SHALL HAVE A LOCKING LID MARKED "SEWER".
2. DESIGN BASIS IS JAY R. SMITH MODEL 4250; REFER TO SPECIFICATIONS

1 SANITARY SEWER CLEANOUT
SCALE: N.T.S.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT HIMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING HIS WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

HFA ARCHITECTS ENGINEERS INTERIORS
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Bentonville, Arkansas 72712
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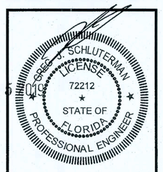
13700 S. US HIGHTWAY 441
LAKE CITY, FL 32025
SPEEDCO REMODEL
PROJECT NUMBER: 03-19-60724

Love's Travel Stop & Country Stores



MAR 1

Greg Schluterman, P.E.
License #72212
Harrison French & Associates, LTD
COA #26421

ISSUE BLOCK

STORE NO.	724
DOCUMENT DATE:	03/15/19
CHECKED BY:	JKR
DRAWN BY:	PRC
PROTO CYCLE:	

MECHANICAL DETAILS AND SCHEDULES

SHEET: YM3.0

Mar15,2019-1:06pm - User parker.cheesweth
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GENERAL SPECIFICATIONS

INTRODUCTION

THE CONTRACTING FOR INSTALLATION OF THE ELECTRICAL SYSTEM WILL BE ACCOMPLISHED IN THE FELD AT THE DIVISION LEVEL. THESE SPECIFICATIONS ARE TO AID IN PREPARATION OF DIVISION LEVEL STORE PLANS AND CONTRACT DOCUMENTS. IN CASE OF A CONFLICT BETWEEN THIS SPECIFICATION AND THE CONTRACT DOCUMENTS PROVIDED BY THE DIVISION CONSTRUCTION MANAGER, THE DIVISION'S PLANS AND SPECIFICATIONS SHALL PREVAIL.

DEFINITIONS
THE FOLLOWING DEFINITIONS APPLY TO THIS PROJECT.

FURNISH - TO SUPPLY THE MATERIAL NECESSARY TO PERFORM THE TASK.
INSTALL - TO SUPPLY THE LABOR NECESSARY TO COMPLETE THE TASK.
PROVIDE - TO FURNISH AND INSTALL MATERIAL AND LABOR TO COMPLETE THE TASK.

1. SCOPE

1.1 E.C. TO PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT (U.N.O.) REQUIRED TO EXECUTE WCRK PER NEC AND ALL APPLICABLE ELECTRICAL CODES IN FORCE AT THE TIME OF PROJECT COMPLETION.

1.2 THIS WORK INCLUDES, BUT IS NOT LIMITED TO: ELECTRICAL SERVICE AND DISTRIBUTION SYSTEMS, PANELBOARDS, DISCONNECT SWITCHES, LIGHTING FIXTURES, POWER AND CONTROL WIRING WITH FINAL CONNECTIONS TO ALL EQUIPMENT REQUIRED FOR A COMPLETE SYSTEM.

1.3 E.C. TO VERIFY TYPE OF POWER SERVICE AVAILABLE (UNDERGROUND OR OVERHEAD) AND MAXIMUM SHORT CIRCUIT CURRENT PRIOR TO SUBMITTING A PROPOSAL.

1.4 E.C. TO PROVIDE PANELBOARD NAMEPLATES. PROVIDE LAMINATED PLASTIC NAMEPLATES WITI 3/4 INCH MINIMUM CONTRASTING-COLOR ENGRAVED LETTERS IDENTIFYING EACH PANELBOARD.

2. INSTALLATION

2.1 THE INSTALLATION SHALL COMPLY WITH ALL LAWS IN EFFECT AT THE TIME OF CONSTRUCTION APPLYING TO ELECTRICAL INSTALLATION, AND WITH THE REGULATIONS OF THE NEC. WHERE SUCH REGULATIONS DO NOT CONFLICT WITH THE LAWS IN EFFECT, AND WITH THE PUBLIC UTILITY COMPANY FURNISHING THE SERVICE.

2.1.1 THE E.C. SHALL UPGRADE THESE SPECIFICATIONS AS REQUIRED TO MEET COMPLIANCE WITH ALL APPLICABLE CODES IN EFFECT; HOWEVER, WHERE THESE SPECIFICATIONS MAKESTIPULATIONS OVER AND ABOVE THE MINIMUM REQUIREMENTS OF APPLICABLE CODES, THE CONTRACTOR SHALL NOT DOWN-GRADE THESE SPECIFICATIONS TO MINIMUM CODE REQUIREMENTS WITHOUT PRIOR WRITTEN APPROVAL FROM THE EOR.

2.2 E.C. SHALL PROVIDE ALL REQUIRED ELECTRICAL CONDUIT AND WIRING FOR ALL MOTORS, MOTOR STARTERS AND ELECTRICAL CONTROLS, U.N.O. E.C. SHALL MAKE ALL LINE VOLTAGE ELECTRICAL CONNECTIONS AS REQUIRED FOR HVAC SYSTEMS.

2.5 WIRING

2.5.1 ALL WORK SHALL BE COMPLETED IN A NEAT AND WORKMAN-LIKE MANNER. THE E.C. SHALL CONTACT THE EOR SHOULD THIS PLAN REQUIRE MODIFICATION TO COMPLY WITH LOCAL CODES.

2.5.2 ALL CONDUCTORS SHALL BE RUN IN APPROVED METALLIC RACEWAY OR CONDUIT AND SHALL BE UNIFORMLY COLOR CODED THROUGHOUT THE ENTIRE SYSTEM. SPLICES, TAPS, AND TERMINALS SHALL BE MADE ONLY IN J BOXES, OUTLET BOXES AND PANELBOARDS.

2.5.3 THE E.C. SHALL ENSURE THE CONDUCTORS UTILIZED ARE IN KEEPING WITH GOOD PRACTICE FOR THE CIRCUIT/PROTECTIVE DEVICES EMPLOYED, THE NEUTRAL CONDUCTOR (WHERE USED SHALL HAVE THE SAME AMPACITY AS THE ASSOCIATED PHASE.

2.5.4 THE E.C. SHALL ENSURE THAT CIRCUIT AMPACITY AND SHORT CIRCUIT/OVERLOAD PRVTECTION IS APPROPRIATE FOR THE EQUIPMENT BEING INSTALLED. UL LISTING CONDITIONS SHALL BE OBSERVED.

2.5.5 TO COMPLY WITH NEC/UL LISTING CONDITIONS, ROOFTOP UNITS MAY BE SHOWN WITH FUSED DISCONNECT SWITCHES:

2.5.5.1 ALL FUSES SERVING MOTOR LOADS WILL BE OF THE DUAL ELEMENT TYPE.

2.5.5.2 DUE TO DIFFERENT INTERRUPTING CHARACTERISTICS, PANELBOARD CIRCUITBREAKERS MAY BE RATED HIGHER THAN THE DUAL ELEMENT FUSES THEY SUPPLY TO ENSURE SJFFICIENT STARTING CURRENT.

3. TESTING AND INSPECTION

3.1 TESTING:

3.1.1 THE E.C. SHALL TEST, PRIOR TO ENERGIZING FOR THE FIRST TIME, ALL PIECES OF ELECTRICAL EQUIPMENT TO ASSURE THEY HAVE THE PROPER PHASE TO PHASE AND PHASE TO GROUND INSULATION AND TO BE FREE OF SHORTS. AFTER ENERGIZING, EACH LUMINAIRE SHALL BE LIT AND TESTED.

3.1.2 THE VARIOUS CIRCUITS SERVED FROM THE PANELBOARDS VARY IN LOADING. THE E.C. SHALL CAREFULLY BALANCE THE LOAD ON EACH LEG OF AT 100%, THE INITIAL UNBALANCE SHALL NOT EXCEED 10%.

4. INDUSTRY-STANDARDS

4.1 THE FOLLOWING IS A LIST OF ABBREVIATIONS USED IN THE ELECTRICAL NOTES AND SPECIFICATIONS.

NEC.....NATIONAL ELECTRIC CODE, REF. COVERSHEET FOR APPLICABLE VERSION
NEMA.....NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
UL.....UNDERWRITERS LABORATORIES, INC.
HVAC.....HEATING, VENTILATING AND AIR CONDITIONING
IEEE.....INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
GFCI.....GROUND FAULT CIRCUIT INTERRUPTER
AIC.....AMPERES INTERRUPTING CAPACITY
UNO.....UNLESS NOTED OTHERWISE
EC.....ELECTRICAL CONTRACTOR
GC.....GENERAL CONTRACTOR
G.....GROUND
IG.....ISOLATED GROUND
WP.....WEATHER PROOF COVERPLATE
WR.....WEATHER RESISTANT RECEPTACLE
ETR.....EXISTING TO REMAIN
RELO.....RELOCATED

WIRING METHODS

PART 1 - GENERAL

1.1 SUMMARY
A. SECTION INCLUDES:
1. WIRE AND CABLE.
2. CONDUIT.
3. OUTLET BOXES AND CONDUIT FITTINGS.
4. WIRING DEVICES.

1.2 REFERENCES
A. THE PUBLICATIONS LISTED BELOW FORM A PART OF THIS SPECIFICATION TO THE EXTENT REFERENCED. PUBLICATIONS ARE REFERENCED WITHIN THE TEXT BY THE BASIC DESIGNATION ONLY.
B. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA):
1. NFPA 70 - NATIONAL ELECTRICAL CODE (NEC).
C. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA):
D. UNDERWRITERS LABORATORIES (UL):
1. UL 1569 - METAL CLAD CABLES.

PART 2 - PRODUCTS

2.1 WIRE AND CABLE
A. ELECTRICAL COMPONENTS AND DEVICES: LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A NATIONALLY RECOGNIZED TESTING AGENCY AND MARKED FOR USE.
B. WIRE AND CABLE SHALL BEAR THE LABEL OF A NATIONALLY RECOGNIZED TESTING LABORATORY AND SHALL CONFORM TO STANDARDS ESTABLISHED FOR SUCH MATERIALS BY NATIONALLY RECOGNIZED AGENCIES.
C. PROVIDE CODE GAUGE, SOFT ANNEALED COPPER WIRE, NOT LESS THAN 98 PERCENT CONDUCTIVITY AND OF 600 VOLT CLASS.
D. CONDUCTORS:
1. INSULATION TYPE SHALL BE ONE OF THE FOLLOWING:
a. THHN.
b. THWN.
c. XHHW.
d. XHHW-2.
2. TYPE:
a. #10 AND SMALLER - SOLID.
b. #8 AND LARGER - STRANDED
E. INTERLOCKED ARMOR METAL CLAD (MC) CABLE: CONTRACTOR'S OPTION AS ALLOWED BY AUTHORITIES HAVING JURISDICTION. MC CABLE SHALL HAVE THE FOLLOWING CHARACTERISTICS:
1. ALUMINUM MC-LITE OR STANDARD MC.
2. MINIMUM SIZE CONDUCTOR, #12 AWG COPPER, INCLUDING GREEN INSULATED EQUIPMENT GROUND, SIZED IN ACCORDANCE WITH THE NEC.
3. OVERALL MOISTURE RESISTANT TAPE.
4. GALVANIZED STEEL OR ALUMINUM INTERLOCKED CLADDING.
5. MANUFACTURED IN ACCORDANCE WITH UL 1569.
F. WIRE SMALLER THAN #12 AWG NOT PERMITTED UNLESS OTHERWISE NOTED. #14 AWG, TYPE MTW OR TFF PERMITTED FOR SIGNAL AND PILOT CONTROL CIRCUITS UNLESS OTHERWISE NOTED.
G. COLOR CODE
G.1. 240/120V
G.1.1. NEUTRAL: WHITE
G.1.2. PHASE: A - BLACK, B - RED
G.1.3. GROUND: GREEN
G.1.4. ISOLATED GROUND - GREEN W/ YELLOW TRACER
G.2. 208/120V
G.2.1. NEUTRAL: WHITE
G.2.2. PHASE: A - BLACK, B - RED, C - BLUE
G.2.3. GROUND: GREEN
G.2.4. ISOLATED GROUND - GREEN W/ YELLOW TRACER
I. COLOR CODE #6 AWG AND SMALLER PHASE AND NEUTRAL CONDUCTORS BY CONTINUOUS OUTER COVERING. CONDUCTORS #4 AWG AND LARGER MAY BE COLOR CODED BY TAPE. TAPE SHALL HAVE MINIMUM OF TWO COMPLETE WRAPS AROUND CONDUCTOR AT 6 INCHES FROM TERMINATIONS, SPLICES, AND JUNCTION POINTS.
J. IDENTIFY CIRCUIT NUMBERS WITH SYNTHETIC CLOTH OR PLASTIC LABELS AT SPLICE AND JUNCTION POINTS

2.2 CONDUIT
A. CONDUIT TYPES SHALL BE AS FOLLOWS AND SHALL BEAR THE LABEL OF A NATIONALLY RECOGNIZED TESTING LABORATORY:
1. GALVANIZED RIGID METAL CONDUIT (GRC): HOT DIP GALVANIZED.
2. INTERMEDIATE METAL CONDUIT (IMC): HOT DIP GALVANIZED.
3. ELECTRICAL METALLIC TUBING (EMT): HOT DIP GALVANIZED.
4. SCHEDULE 40 HEAVY WALL POLYVINYL CHLORIDE (PVC).
5. FLEXIBLE METAL CONDUIT: ZINC COATED STEEL OR ALUMINUM.
6. LIQUID TIGHT FLEXIBLE STEEL CONDUIT WITH PVC JACKET.
7. MC CABLE: STEEL OR ALUMINUM CLADDING.

2.3 OUTLET BOXES AND CONDUIT FITTINGS
A. OUTLET BOXES AND CONDUIT FITTINGS SHALL BEAR THE LABEL OF A NATIONALLY RECOGNIZED TESTING LABORATORY AND BE RATED FOR ENVIRONMENTAL CONDITIONS WHERE INSTALLED.
B. BOXES: COMPLY WITH NEC IN REGARD TO MAXIMUM ALLOWABLE NUMBER OF CONDUCTORS .
1. INTERIOR BOXES: HOT DIP GALVANIZED, 4 INCHES MINIMUM OCTAGON OR SQUARE, UNLESS OTHERWISE NOTED. PROVIDE SINGLE OR MULTIPLE GANG OUTLET BOXES AS REQUIRED FOR FLUSH INSTALLATION IN DRYWALL CONSTRUCTION. PROVIDE MASONRY BOXES FOR OUTLETS INSTALLED FLUSH IN CONCRETE UNIT MASONRY. PROVIDE SINGLE SURFACE_MOUNTED OUTLET BOXES FOR UTILITY TYPE BOXES.
2. EXTERIOR BOXES: PROVIDE MASONRY BOXES FOR OUTLETS INSTALLED FLUSH IN CONCRETE UNIT MASONRY.
3. OUTLET BOXES: SUITABLE FOR SUPPORTING LIGHTING FIXTURES IF INTENDED FOR THAT PURPOSE.
C. CONDUIT FITTINGS:
1. EMT FITTINGS FOR DRY LOCATIONS: DIECAST OR STEEL SET SCREW TYPE.
2. EMT FITTINGS FOR WET OR DAMP LOCATIONS: STEEL COMPRESSION TYPE.
3. GRC, IMC, OR EMT BOX CONNECTORS FOR WET OR DAMP LOCATIONS: WEATHER-TIGHT HUBS.
4. THREADLESS GRC OR IMC FITTINGS: NOT PERMITTED.
5. GRC OR IMC CONNECTORS FOR DRY LOCATIONS.
6. PVC FITTINGS: SOLVENT WELD TYPE FOR PVC CONDUIT.

2.4 WIRING DEVICES
A. BRANCH CIRCUIT SWITCHES: HEAVY DUTY, SPECIFICATION GRADE RATED 20A 120/277V AS FOLLOWS
A.1. SINGLE POLE - HUBBEL #HBL1221GY OR EQUAL.
A.2. 3-WAY - HUBBEL #HBL1223GY OR EQUAL.
A.3. 4-WAY - HUBBEL #HBL1224GY OR EQUAL.
A.4. SINGLE POLE OCCUPANCY SENSOR - LEVITON #OSSMT-MD-G OR EQUAL.
B. RECEPTACLES: STRAIGHT BLADE NYLON GROUNDING, BACK OR SIDE WIRED, HEAVY DUTY, SPECIFICATION GRADE AS FOLLOWS:
B.1. DUPLEX RECEPTACLE, 20A 125V (5-20R) - HUBBELL #HBL5262GY OR EQUAL.
B.2. DUPLEX RECEPTACLE, 20A 125V (5-20R) ISOLATED GROUND - HUBBELL #IG5262GY OR EQUAL.
B.3. DUPLEX RECEPTACLE, 20A 125V (5-20R) GFCI - HUBBELL #GF15GYLA OR EQUAL.
B.4. DUPLEX RECEPTACLE, 20A, 125V (5-20R) GFCI AND WEATHER RESISTANT - HUBBELL#GFTR15GY OR EQUAL.
C. COVER PLATES
C.1. 302/304 STAINLESS STEEL COVER PLATES FOR FLUSH MOUNTED EQUIPMENT.
C.2. GALVANIZED STEEL PLATES WHERE DEVICES ARE INSTALLED ON EXPOSED FITTINGS OR BOXES.
C.3. BLANK 302/304 STAINLESS STEEL COVER PLATES ON ALL BOXES WITHOUT DEVICE.
C.4. WEATHER-PROOF, WHILE-IN USE COVER FOR ALL WEATHER RESISTANT, 20A, DUPLEX RECEPTACLES SHALL BE HUBBELL #WP26E OR EQUAL.
D. COLORS
D.1. UNLESS OTHERWISE NOTED, WIRING DEVICES SHALL BE GRAY.
D.2. UNLESS OTHERWISE NOTED, COVER PLATES SHOULD BE SILVER.
D.3. UNLESS OTHERWISE NOTED, ISOLATED GROUND RECEPTACLES AND COVER PLATES SHALL MATCH THE TYPE AND COLOR AS OTHER DEVICES INSTALLED IN THAT ROOM OR AREA.

PART 3 - EXECUTION

3.1 INSTALLATION - GENERAL
A. INSTALL SPECIFIED MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
B. WHERE SWITCHES ARE GANGED, PROVIDE PERMANENTLY INSTALLED STEEL BARRIERS BETWEEN SWITCHES OR PROVIDE SEPARATE BOXES AND SEPARATE COVERPLATES FOR EACH CIRCUIT.

3.2 CONDUIT
A. INSTALLATION:
1. INSTALL CONDUIT CONCEALED, EXCEPT IN UNFINISHED AREAS AND WHERE INDICATED ON DRAWINGS.
2. CLEAN PVC CONDUIT PER MANUFACTURER'S RECOMMENDATIONS BEFORE APPLICATION OF SOLVENT CEMENT.
3. COORDINATE FLASHINGS WHERE CONDUIT PENETRATES ROOF MEMBRANE.
4. PAINT METALLIC CONDUIT UNDER CONCRETE SLAB OR WHERE INSTALLED IN CONTACT WITH EARTH. APPLY TWO 8 MIL COATS OF PVC OR ASPHALT PAINT CONTINUOUSLY ALONG ENTIRE LENGTH OF CONDUIT PRIOR TO INSTALLATION BELOW GRADE. DO NOT RUN CONDUIT IN CONCRETE SLAB.
5. INSTALL FLEXIBLE METAL CONDUIT OR LIQUID TIGHT FLEXIBLE METAL CONDUIT FOR FINAL CONNECTIONS TO AIR COMPRESSORS, HVAC EQUIPMENT, MOTORS AND OTHER VIBRATING EQUIPMENT.
6. COORDINATE INSTALLATION OF CONDUIT IN MASONRY WORK.
7. DO NOT INSTALL CONDUIT UNDER SLAB UNLESS INDICATED ON DRAWINGS. CONDUIT INSTALLED BELOW SLAB SHALL BE GALVANIZED RIGID METAL (GRC), INTERMEDIATE METAL CONDUIT (IMC), OR SCHEDULE 40 PVC.
8. ROUTE ABOVE GRADE CONDUIT PARALLEL OR PERPENDICULAR TO BUILDING LINES.
9. MAINTAIN MINIMUM OF 6 INCHES CLEARANCE AT FLUES AND HEAT SOURCES.
10. INSTALL DOUBLE LOCKNUT AND BUSHINGS WHEN TERMINATING GRC OR IMC CONDUIT, EXCEPT WHERE CONDUIT TERMINATES IN THREADED HUB.
11. INSTALL INSULATED THROAT BUSHINGS ON ALL PVC CONDUIT RUNS.
B. LOCATION:
1. GALVANIZED RIGID METAL CONDUIT (GRC): PERMITTED FOR GENERAL EXPOSED OR CONCEALED WORK ABOVE OR BELOW GRADE.
2. INTERMEDIATE METAL CONDUIT (IMC): PERMITTED FOR GENERAL EXPOSED OR CONCEALED WORK ABOVE OR BELOW GRADE.
3. ELECTRICAL METALLIC TUBING (EMT): PERMITTED FOR GENERAL EXPOSED OR CONCEALED WORK ABOVE GRADE.
4. POLYVINYL CHLORIDE RIGID NONMETALLIC CONDUIT (PVC) UNLESS NOTED OTHERWISE ON DRAWINGS: PERMITTED FOR BELOW_GRADE USE WHEN PERMITTED BY LOCAL GOVERNING CODES.
5. FLEXIBLE METAL CONDUIT: PERMITTED IN LENGTHS OF 6 FEET OR LESS FOR CONNECTIONS TO EQUIPMENT IN DRY AREAS. NOT PERMITTED FOR GENERAL EXPOSED OR CONCEALED WORK. FOR CONNECTION OF RECESSED LIGHT FIXTURES IN SUSPENDED CEILINGS AND CONNECTION OF OTHER EQUIPMENT SUBJECT TO VIBRATION.
6. LIQUID TIGHT FLEXIBLE METAL CONDUIT: PERMITTED EXPOSED IN LENGTHS OF 6 FEET OR LESS FOR VIBRATING EQUIPMENT IN DAMP LOCATIONS WHERE RIGID CONNECTIONS ARE NOT SUITABLE UNLESS OTHERWISE INDICATED ON DRAWINGS.
7. MC CABLE: PERMITTED ONLY WHERE CONCEALED INSIDE PARTITIONS AND ABOVE FINISHED CEILINGS. CABLE EXPOSED ON WALLS OR IN OPEN BAR JOIST AREAS WILL NOT BE PERMITTED. CUT CABLE WITH MANUFACTURER'S RECOMMENDED ARMOR STRIPPING TOOL. PROVIDE MANUFACTURERS APPROVED CONNECTORS.

3.3 WIRING DEVICES
A. REPLACE OUTLETS OR DEVICES IMPROPERLY LOCATED OR INSTALLED. SET OUTLETS AND DEVICES PLUMB OR HORIZONTAL AND EXTEND TO, BUT NOT PROJECT ABOVE, FINISHED SURFACE.
B. UNLESS OTHERWISE NOTED, RECEPTACLES, SWITCHES, AND OTHER WIRING DEVICES SHALL NOT BE MOUNTED BACK-TO-BACK.
C. INSTALL RECEPTACLES SO THAT THE GROUND PRONG IS IN THE DOWN POSITION.

3.4 PROTECTION
A. PROTECT INSTALLED PRODUCTS FROM DAMAGE UNTIL COMPLETION OF CONSTRUCTION OPERATIONS.

PANELBOARDS

PART 1 - GENERAL

1.1 SUMMARY
A. SECTION INCLUDES:
1. LIGHTING/APPLIANCE PANELBOARDS.
B. RELATED REQUIREMENTS:
1. SECTION 16050 - BASIC ELECTRICAL MATERIALS AND METHODS. GROUNDING.

1.2 REFERENCES
A. NATIONAL ELECTRICAL CODE (NFPA-70), AND INTERIM AMENDMENTS IN EFFECT.

1.3 QUALITY ASSURANCE
A. COMPLY WITH NATIONAL ELECTRICAL CODE.
B. COMPLY WITH LOCAL AND STATE, UTILITY REGULATIONS AND LAWS.

1.4 SYSTEM DESCRIPTION
A. ELECTRICAL SYSTEM VOLTAGES: THE FOLLOWING VOLTAGES SHALL APPLY UNLESS OTHERWISE NOTED.
1. RECEPTACLE AND SMALL POWER SYSTEMS: 208Y/120 VOLT, 3 PHASE, 4 WIRE WYE, 60 HZ, SOLID GROUNDED NEUTRAL.

PART 2 - PRODUCTS

2.1 MANUFACTURERS
A. PANELBOARDS MANUFACTURED BY ONE OF THE FOLLOWING, UNLESS OTHERWISE INDICATED ON DRAWINGS.
1. CUTLER HAMMER
2. GENERAL ELECTRIC.
3. SIEMENS (ITE).
4. SQUARE D.
B. EQUIPMENT SHALL BEAR NAME AND TRADEMARK OF MANUFACTURER AS LISTED ABOVE.
C. SUBSTITUTIONS: NOT PERMITTED.

2.2 LIGHTING/APPLIANCE PANELBOARDS
A. PANELBOARDS: INSTALL AS SCHEDULED ON DRAWINGS, INCLUDING VOLTAGE, AMPERAGE, BUS BRACING, AND INTERRUPTING RATINGS.
1. MAIN LUGS ONLY (MLO), MAIN CIRCUIT BREAKER (MCB), OR MAIN FUSIBLE SWITCH (MFS). PANELBOARD AND BRANCH DEVICES AS INDICATED ON SCHEDULE.
2. BRANCH CIRCUIT PROTECTIVE DEVICES: PLUG_ON OR BOLTED TYPE THERMAL MAGNETIC CENTER_TRIP CIRCUIT BREAKERS FOR ALTERNATING CURRENT, EACH WITH SINGLE_HANDLE COMMON TRIP. TANDEM OR HALF_SIZED CIRCUIT BREAKERS OR LOAD CENTER TYPE CONSTRUCTION NOT PERMITTED. CIRCUIT BREAKER AMP INTERRUPTING CAPACITY (AIC) NO LESS THAN VALUES INDICATED ON DRAWINGS. CIRCUIT BREAKERS FEEDING EMERGENCY LIGHTS, NIGHT LIGHTS, TIME CLOCK MOTORS, ETC. WILL BE EQUIPPED WITH HANDLE_LOCKS WHERE INDICATED ON DRAWINGS, OR REQUIRED BY NFPA 70.
3. CABINETS: ZINC_COATED SHEET STEEL WITH KNOCK_OUTS. LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY. TRIMS AND DOORS TO HAVE SUITABLE PRIMER COAT AND FINISH COAT OF MANUFACTURER'S STANDARD COLOR. TRIMS TO BE FITTED WITH HINGED DOORS HAVING COMBINED LOCK AND LATCH. LOCKS WILL BE KEYED ALIKE AND FURNISHED WITH TWO KEYS FOR EACH PANELBOARD.
B. DIRECTORY HOLDER: CONTRACTOR SHALL PROVIDE LESIBLE TYPEWRITTEN CIRCUIT DIRECTORY PROPERLY IDENTIFYING LOAD(S) ON EACH CIRCUIT MOUNTED UNDER CLEAR PLASTIC COVER. BRANCH CIRCUITS SHALL BE CONNECTED EXACTLY AS INDICATED ON PANEL SCHEDULE.

PART 3 - EXECUTION

3.1 EXAMINATION
A. EXAMINE SURFACES AND ADJACENT AREAS IN WHICH WORK UNDER THIS SECTION IS TO BE PERFORMED. REPORT IN WRITING TO OWNER'S CONSTRUCTION MANAGER PREVAILING CONDITIONS THAT MAY ADVERSELY AFFECT SATISFACTORY EXECUTION OF WORK. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
B. STARTING WORK CONSTITUTES ACCEPTANCE OF THE EXISTING CONDITIONS AND THE CONTRACTOR SHALL THEN, AT HIS EXPENSE, BE RESPONSIBLE FOR CORRECTING ALL UNSATISFACTORY AND DEFECTIVE WORK ENCOUNTERED.

3.2 INSTALLATION
A. INSTALL MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS INDICATED ON DRAWINGS.

SAFETY SWTICHES

PART 1 - GENERAL

1.1 SUMMARY
A. SECTION INCLUDES:
1. SAFETY DISCONNECT SWITCHES.

1.2 REFERENCES
A. THE PUBLICATIONS LISTED BELOW FORM A PART OF THIS SPECIFICATION TO THE EXTENT REFERENCED. PUBLICATIONS ARE REFERENCED WITHIN THE TEXT BY THE BASIC DESIGNATION ONLY.
B. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
1. NEMA 250 - ENCLOSURES FOR ELECTRICAL EQUIPMENT (1000 VOLTS MAXIMUM).

PART 2 - PRODUCTS

2.1 SAFETY SWITCHES
A. SWITCH INTERIOR:
1. DEAD-FRONT CONSTRUCTION WITH HINGED ARC SUPPRESSOR AND SWITCH BLADES WHICH ARE FULLY VISIBLE IN THE OFF POSITION AND WITH DOOR OPEN.
B. SWITCH MECHANISM:
1. QUICK-MAKE AND QUICK-BREAK OPERATING HANDLE AND MECHANISM WITH A DUAL COVER INTERLOCK TO PREVENT UNAUTHORIZED OPENING OF THE SWITCH DOOR IN THE "ON" POSITION OR CLOSING THE SWITCH MECHANISM WHILE THE DOOR IS OPEN.
2. PROVIDE ELECTRICAL INTERLOCK SWITCH TO DE-ENERGIZE CONTROL WIRING AS REQUIRED.
3. LINE AND LOAD TERMINALS OF THE DEVICE RATED 100 AMPERES OR LESS SHALL BE RATED FOR 75 DEGREES C.
4. PROVIDE OPERATING HANDLE WITH PROVISIONS FOR INSTALLATION OF A PADLOCK IN "OFF" OR "ON" POSITIONS.
C. RATINGS:
1. SWITCHES HORSEPOWER RATED FOR 600 VOLTS, 60 HZ, HEAVY-DUTY TYPE.
2. WHERE SWITCHES ARE INDICATED TO BE FUSED, FURNISH WITH PROVISIONS FOR FUSES.
D. ENCLOSURES:
1. NEMA 1, CODE GAUGE SHEET STEEL WITH HINGED COVER, EXCEPT WHERE EXPOSED TO WEATHER.
2. IF EXPOSED TO WEATHER, PROVIDE NEMA 3R ENCLOSURE.

PART 3 - EXECUTION

3.1 INSTALLATION
A. INSTALL MOTOR AND CIRCUIT DISCONNECT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. APPLICABLE CODES SHALL TAKE PRECEDENCE OVER DRAWING DETAILS.
B. PROVIDE PROPERLY SIZED GROUNDING LUG AND TERMINATIONS FOR ALL SAFETY SWITCHES.

GENERAL NOTES

1. PROVIDE SEALS AT RACEWAY PENETRATIONS AS FOLLOWS:
A. FIRE RATED WALLS: SEAL WITH SEALANT HAVING A T-RATING TO MATCH OR EXCEED WALL RATING.
B. EXTERIOR: REFER TO ARCHITECTURAL DOCUMENTS FOR SEALING REQUIREMENTS AT ALL EXTERIOR MOUNTED DEVICES, FIXTURES, ENCLOSURES, AND RACEWAY PENETRATIONS.
2. PROVIDE A SEPARATE EQUIPMENT GROUNDING CONDUCTOR (SIZE PER NEC) IN PVC TYPE CONDUIT, POWER CIRCUITS, ISOLATED GROUND CIRCUITS, OR AS SHOWN ON PLANS. CONDUIT SHALL BE SIZED PER NEC BASED ON THWN 600 VOLT COPPER SINGLE CONDUCTORS, PLUS THE EQUIPMENT GROUNDING CONDUCTOR.
3. WIRING DEVICES: DEVICE MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTER OF OUTLET BOX UNLESS NOTED OTHERWISE ON PLANS. COORDINATE THE STANDARD MOUNTING HEIGHTS WITH MASONRY:
A. SWITCHES +46"
B. RECEPTACLES +20"
C. VOICE/DATA +20"
4. WIRING SHALL INCLUDE FINAL CONNECTION TO ALL EQUIPMENT IN CONFORMANCE WITH EQUIPMENT SUPPLIER WIRING DIAGRAMS.
5. CONTRACTOR IS RESPONSIBLE FOR PROVIDING COMPLETE PANELBOARD IDENTIFICATION SCHEDULES.
6. BRANCH CIRCUIT CONDUCTORS SHALL BE MINIMUM #12 AWG UNLESS NOTED OTHERWISE IN SCHEDULES. WHERE 20A BRANCH CIRCUITS HAVE #8 AND LARGER WIRE SPECIFIED, #10 AWG WIRE SHALL BE USED FOR THE FINAL CONNECTION (15-FT MAXIMUM).
7. WHERE BRANCH CIRCUITS ARE GROUPED, SIZE CONDUIT AND DERATE CURRENT CARRYING CONDUCTORS PER NEC.
8. PROVIDE HANDLE TIES ON ALL MULTIMWE BRANCH CIRCUITS TO MEET NEC REQUIREMENTS.
9. CONDUITS EXTENDING BEYOND EXTERIOR WALL: STUB OUT 2'-0" BELOW GRADE TO 5'-0" BEYOND EXTERIOR WALLS UNLESS NOTED OTHERWISE. COORDINATE LOCATION AND PROVIDE CONNECTION TO SITE CONDUITS.
10. SUPPORTS FROM STRUCTURE: NO ATTACHMENT OF ANY TYPE SHALL BE MADE TO BRIDGING OR JOIST WEB MEMBERS. UTILIZE ONLY THE TOP AND BOTTOM CHORDS FOR SUPPORTING THE ELECTRICAL SYSTEM INSTALLATIONS.
11. DO NOT INSTALL EQUIPMENT OR CONDUITS DIRECTLY UNDER SKYLIGHT WELLS UNLESS INDICATED OTHERWISE ON PLANS.
12. WHERE GROUPED CONDUITS ARE INSTALLED WITHIN THE JOIST SPACE, COORDINATE WITH SPRINKLER CONTRACTOR PRIOR TO INSTALLATION IN ORDER TO MAINTAIN REQUIRED CLEARANCES FROM SPRINKLERS.
13. COORDINATE OUTLET BOX LOCATIONS WITH METAL SIDING TO MINIMIZE CUTTING OF SIDING.
14. ALL MOUNTING HEIGHTS TO CENTERLINE OF ITEM UNLESS OTHERWISE NOTED. VERIFY ALL OUTLET LOCATIONS ON THE JOB PRIOR TO ROUGH-IN.
15. LABEL THE FRONT OF EACH RECEPTACLE COVERPLATE WITH PANEL DESIGNATION AND CIRCUIT NUMBER USING CLEAR THERMAL TRANSFER (ELECTRIC DYMO) LABELS WITH 1/8" HIGH BLACK LETTERS (OR CONTRASTING COLOR IF PLATES ARE BLACK OR BROWN). LABELS SHALL BE SUITABLE FOR INDOOR/OUTDOOR USE. LABEL THE BACK OF EACH LIGHT SWITCH COVERPLATE WITH PANEL DESIGNATION AND CIRCUIT NUMBER USING A FINE BLACK PERMANENT MARKER.
16. ALL PIPING, CONDUIT, AND OUTLET BOXES (ELECTRIC, VOICE, DATA, ETC.) IN THE RATED WALLS OR CEILING SHALL BE CONSTRUCTED OF NON-COMBUSTABLE MATERIAL.
17. OUTLET BOXES (ELECTRICAL, VOICE, DATA, ETC.) SHALL BE LIMITED TO TWO OUTLET BOXES PER STUD SPACE. OUTLET BOXES ON OPPOSITE SIDES OF THE RATED WALLS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF 24 INCHES.
18. LABEL EACH RECEPTACLE COVERPLATE 'COMPUTER' USING CLEAR THERMAL TRANSFER (ELECTRONIC DYMO) LABELS WITH 1/8" HIGH LETTERS.
19. THE COLOR OF ISOLATED GROUND RECEPTACLES AND COVERPLATES SHALL MATCH THOSE OF OTHER DEVICES ON THE JOB.
20. FOR ISOLATED GROUND CIRCUITS, PROVIDE AN ISOLATED GROUND CONDUCTOR THROUGHOUT THE LENGTH OF THE CIRCUIT IN ADDITION TO THE PHASE, NEUTRAL, AND GROUND CONDUCTORS.

ALL ELECTRICAL SERVICE AND DISTRIBUTION EQUIPMENT, PANELBOARDS, DISCONNECT SWITCHES AND LIGHTING FIXTURES TO BE FURNISHED BY THE ACCOUNT VENDOR, GRAYBAR.

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SYMBOL LEGEND

(SYMBOLS APPLY ONLY WHEN USED ON DRAWINGS)

SYMBOL	DESCRIPTION
	EXIT FIXTURE (WALL MOUNTED/CEILING MOUNTED)
	EMERGENCY FIXTURE
$	SWITCH, SINGLE POLE
$3	SWITCH, 3-WAY
$4	SWITCH, 4-WAY
$K	SWITCH, KEYED
$D	SWITCH, DIMMER
$VS	SWITCH, VARIABLE SPEED
$M	SWITCH, MANUAL MOTOR
OS1	ULTRASONIC WALL SWITCH OCC. SENSOR, MANUAL ON, AUTO OFF
OS2	PIR DIMMER WALL SWITCH OCC. SENSOR, MANUAL ON, AUTO OFF
OS3	ULTRASONIC CEILING OCC. SENSOR
OS4	DUAL-TECH WALL SWITCH OCC. SENSOR, MANUAL ON, AUTO OFF
OS5	LOW TEMPERATURE, ULTRASONIC CEILING OCC. SENSOR
P	POWER PACK
	RECEPTACLE, DUPLEX
	RECEPTACLE, DUPLEX, MOUNTED HORIZONTALLY
	RECEPTACLE, DUPLEX FLUSH FLOOR
	RECEPTACLE, DUPLEX ISOLATED GROUND FLUSH FLOOR
	RECEPTACLE, DOUBLE DUPLEX
	RECEPTACLE, DUPLEX ISOLATED GROUND
	RECEPTACLE, DOUBLE DUPLEX, ISOLATED GROUND
	RECEPTACLE, SIMPLEX TWIST LOCK, L5

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG #	DESCRIPTION	VOLTS	WATTS	MOUNTING	REMARKS	FURNISHED BY
N4	LSI	S 4 LED VHO CW UE	4' LED STRIP FIXTURE	120	57	SURFACE	MOUNT TO BOTTOM OF METAL FRAMING	OWNER
TAE	LSI	S 8 LED VHO CW UE EM	EMERGENCY 8' LED STRIP FIXTURE	120	114	SURFACE	MOUNT TO BOTTOM OF METAL FRAMING	OWNER
TD	CROJSE-HINDS	MLL4/UNV1 TF / DP1050MTK	EXPLOSION PROOF FIXTURE / MOUNTING BRACKET	120	54.5	SURFACE	USE CEILING MOUNT BRACKET	OWNER
TDE	CROJSE-HINDS	MLL4/UNV1 S903 TF EM / DP1050MTK	EMERGENCY EXPLOSION PROOF FIXTURE / MOUNTING BRACKET	120	54.5	SURFACE	USE CEILING MOUNT BRACKET	OWNER

LP4 — EXISTING PANELBOARD

208Y/120V, 3PH, 4W
600A M.L.O.
42,000 AIC
SURFACE MOUNT
GROUND BAR
ISOLATED GROUND BAR

SERVES: TIRE SHOP
LOCATION: TIRE STORAGE
FED FROM: EXTERIOR DISCONNECT
OVERCURRENT DEVICE: 600A

CK	LOAD SERVED	WIRE	BRKR	PL	PHASE A		PHASE B		PHASE C		PL	BRKR	WIRE	LOAD SERVED	CK
1	air compressor (10)	–	90	3	5.54	4.46					3	100	–	PANEL LT (N,14)	2
3	-			-			5.54	4.31			-			–	4
5	-			-					5.54	4.53	-			–	6
7	tire balancer (10)	–	30	3	1.60	1.28					1	20	–	service center ltg (10)	8
9	-			-			1.60	0.55			1	20	–	exterior ltg (10)	10
11	-			-					1.60	0.69	1	20	–	interior lighting (10)	12
13	fixture welder (10)	–	50	2	4.20	0.23					1	20	–	mezzanine ltg (10)	14
15	-			-			4.20	0.00			1	20	–	SPARE (11)	16
17	office / recepts (10)	–	20	1					0.90	0.48	1	20	–	air dryer (10)	18
19	motorized fire door (10)	–	20	1	0.18	0.00					1	20	–	SPARE (11)	20
21	tire spreader (10)	–	20	1			1.00	0.18			1	20	–	mezzanine recept (10)	22
23	inflation cage (10)	–	20	1					0.72	0.00	1	20	–	SPARE (11)	24
25	recepts (10)	–	20	1	0.72	0.89					2	20	–	site lighting (10)	26
27	general recepts (10)	–	20	1			0.36	0.89			-			–	28
29	general recepts (10)	–	20	1					0.90	0.72	1	20	–	i.t. rack (10)	30
31	tsuh-1 (10)	–	30	2	2.50	0.49					1	20	–	tsef-2 (10)	32
33	-			-			2.50	0.00			1	20	–	spare (10)	34
35	tv (10)	–	20	1					0.36	1.08	1	20	–	general recepts (10)	36
37	overhead door (10)	–	20	1	1.20	1.20					1	20	–	overhead door (10)	38
39	overhead door (10)	–	20	1			1.20	0.56			2	20	–	tswh-1 (10)	40
41	overhead door (10)	–	20	1					1.20	0.56	-			–	42
43	overhead door (10)	–	20	1	1.20	0.00					1	20	–	space	44
45	overhead door (10)	–	20	1			1.20	1.34			2	20	–	site lighting (10)	46
47	overhead door (10)	–	20	1					1.20	1.34	-			–	48
49	exterior recepts (10)	–	20	1	1.08	2.50					2	20	–	tsuh-3 (10)	50
51	fixture welder (10)	–	50	2			5.54	2.50			-			–	52
53	-			-					5.54	1.83	2	20	–	tshp-1 (10)	54
55	interior lighting (10)	–	20	1	0.89	1.83					-			–	56
57	interior lighting (10)	–	20	1			1.53	1.08			1	20	–	ig recept-computer (10)	58
59	motorized fire door (10)	–	20	1					0.18	0.20	1	20	–	fire alarm (10)	60
61	fixture welder (10)	–	50	2	5.54	1.33					3	20	–	tswh-1 (10)	62
63	-			-			5.54	1.33			-			–	64
65	fixture welder (10)	–	50	2					5.54	1.33	-			–	66
67	-			-	5.54	0.36					1	20	–	tsef-3 (10)	68
69	tsuh-2 (10)	–	30	2			2.50	0.10			1	20	–	recirc pump (10)	70
71	-			-					2.50	0.00	1	20	–	space	72
73	general recepts (10)	–	20	1	0.36	0.54					1	20	–	water coolers (10)	74
75	oil pit lights (10)	–	20	1			0.44	0.86			1	20	–	tsef-4 (10)	76
77	pit sump pump recept (10)	–	20	1					0.86	1.18	1	20	–	tsef-5 (10)	78
79	tsahu-1 (10)	–	25	2	2.50	7.12					2	20	–	panel hwy1 (10)	80
81	-			-			2.50	4.78			-			–	82
83	tsef-6 (10)	–	20	1					1.18	0.00	1	20	–	space	84
	TOTAL CONNECTED				55.3		54.1		42.2		KVA				
	TOTAL CONNECTED				460.6		451.1		351.3		AMPS				
	TOTAL LOAD				151.6		KVA		420.7		AMPS				
	PER NEC ARTICLE 220 FEEDER LOAD				159.9		KVA		443.9		AMPS				

LT — NEW PANELBOARD

208Y/120V, 3PH, 4W
100A M.L.O.
10,000 AIC
SURFACE MOUNT
GROUND BAR

SERVES: TIRE SHOP
LOCATION: TIRE STORAGE
FED FROM: PANEL LP4
OVERCURRENT DEVICE: 100A

CK	LOAD SERVED	WIRE	BRKR	PL	PHASE A		PHASE B		PHASE C		PL	BRKR	WIRE	LOAD SERVED	CK
1	SPEEDCO SIGN (2,8,N)	12	20	1	1.20	1.66					1	20	12	EF-5 (N)	2
3	SPEEDCO SIGN (2,8,N)	12	20	1			1.20	1.66			1	20	12	EF-6 (N)	4
5	EXTERIOR SIGNS (2,8,N)	12	20	1					1.20	0.53	1	20	12	EF-7 (N)	6
7	HEART SIGNS (2,8,N)	12	20	1	0.40	1.20					1	20	12	OIL PIT SUMP PUMP (N)	8
9	SPARE (N)	–	20	1			0.00	0.36			1	20	12	MADDENCO (N)	10
11	HEART SIGNS (2,8,N)	12	20	1					0.40	1.20	1	20	12	FUEL MONITORING PANEL (N)	12
13	SPARE (N)	–	20	1	0.00	0.00					1	20	–	SPARE (N)	14
15	LTG - OIL PIT (N)	12	20	1			1.09	0.00			1	20	–	SPARE (N)	16
17	EXTERIOR SIGNS (2,8,N)	12	20	1					1.20	0.00	1	20	–	SPARE (N)	18
19	SPARE (N)	–	20	1	0.00	0.00					1	20	–	SPARE (N)	20
21	SPARE (N)	–	20	1			0.00	0.00			1	20	–	SPARE (N)	22
23	SPARE (N)	–	20	1					0.00	0.00	1	20	–	SPARE (N)	24
25	SPACE				0.00	0.00								SPACE	26
27	SPACE						0.00	0.00						SPACE	28
29	SPACE								0.00	0.00				SPACE	30
31	SPACE				0.00	0.00								SPACE	32
33	SPACE						0.00	0.00						SPACE	34
35	SPACE								0.00	0.00				SPACE	36
37	SPACE				0.00	0.00								SPACE	38
39	SPACE						0.00	0.00						SPACE	40
41	SPACE								0.00	0.00				SPACE	42
	TOTAL CONNECTED				4.46		4.31		4.53		KVA				
	TOTAL CONNECTED				37.1		35.9		37.7		AMPS				
	TOTAL LOAD				13.3		KVA		36.9		AMPS				
	PER NEC ARTICLE 220 FEEDER LOAD				19.1		KVA		53.1		AMPS				

PANELBOARD NOTES ()

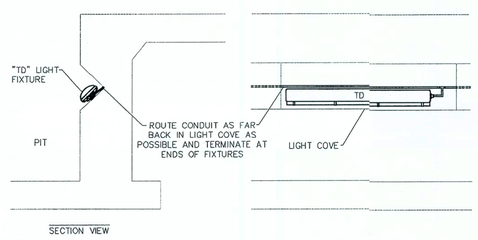
(1) TERMINATE GROUND ON ISOLATED GROUND BUS.
(2) INSTALL LOCKING DEVICE FURNISHED WITH PANELBOARD (LOCK-OFF FOR MAINTENANCE).
(3) INSTALL LOCKING DEVICE FURNISHED WITH PANELBOARD (LOCK-ON FOR CRITICAL LOAD).
(4) GFI BREAKER FOR PERSONNEL PROTECTION (5 mA).
(5) GFI BREAKER FOR EQUIPMENT PROTECTION (30 mA).
(6) CONDUCTOR SIZE HAS BEEN INCREASED FOR VOLTAGE DROP. SIZE EQUIPMENT GROUNDING CONDUCTOR PROPORTIONALLY PER NEC.
(7) FACTORY WIRED TO LOAD.
(8) THRU CONTACTOR.
(9) EXISTING CIRCUIT BREAKER TO REMAIN. VERIFY CONDITION OF CIRCUIT BREAKER TO ENSURE THAT IT IS OPERATIONAL AND MEETS ALL U.L. RATINGS.
(10) EXISTING CIRCUIT TO REMAIN.
(11) PROVIDE HANDLE LOCK OFF DEVICE TO LOCK "SPARE" CIRCUIT BREAKER IN THE "OFF" POSITION. IF CIRCUIT BREAKER IS IDENTIFIED AS "EXISTING", FIELD VERIFY CIRCUIT BREAKER INDICATED IS NOT CONNECTED TO ANY LOAD AND UPDATE PANELBOARD CIRCUIT DIRECTORY IDENTIFYING CIRCUIT AS "SPARE".
(12) TRACE EXISTING CIRCUIT, IDENTIFY LOAD AND PROVIDE COMPLETE TYPEWRITTEN PANELBOARD IDENTIFICATION SCHEDULE AND PLACE ON INTERIOR OF PANELBOARD DOOR. IF CIRCUIT IS A "SPARE" THEN REFER TO PANELBOARD NOTE (11).
(13) PROVIDE LISTED HANDLE TIE AS INDICATED FOR MULTIWIRE BRANCH CIRCUIT.
(14) REFER TO ONE-LINE DIAGRAM FOR WIRE SIZES.
(N) NEW

ALL SWITCHBOARDS AND PANELBOARDS SHALL HAVE A COMMERCIALLY PRODUCED PERMANENT LABEL APPLIED TO WARN OF POTENTIAL ARC FLASH HAZARDS. IN ACCORDANCE WITH NEC 110.16 AND NFPA 70E. LABELING MAY BE COMPLETED BY EQUIPMENT MANUFACTURER, EQUIPMENT VENDOR/SUPPLIER, OR THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY THAT ALL SWITCHBOARDS AND PANELBOARDS ARE PROPERLY LABELED IN THE FIELD.

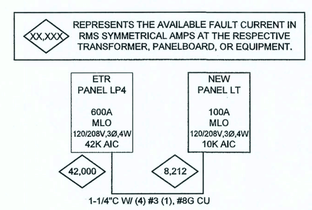
EXISTING CIRCUITRY IS BASED ON ORIGINAL BUILDING PLANS. IF EXISTING CIRCUITS TO REMAIN ARE NOT AS SHOWN ON THE PANELBOARD SCHEDULES, ARRANGE NEW CIRCUITS BASED UPON PRESENT LOCATION OF EXISTING CIRCUITS TO REMAIN SHOWN IN LOWERCASE.

EC SHALL MATCH TYPE AND AIC RATINGS OF EXISTING CIRCUIT BREAKERS AND MAINTAIN SERIES RATING OF BREAKERS.

ELECTRICAL SERVICE AND METERING ARE EXISTING TO REMAIN.



2 PIT LIGHT MOUNTING DETAIL
SCALE: N.T.S.



1 PARTIAL ONE-LINE DIAGRAM
NTS

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13700 S. US HIGHWAY 441
LAKE CITY, FL
32025

SPEEDCO RE-BRANDING
PROJECT NUMBER: 03-19-60724

Loves Travel Stop & Country Stores

MAR 1 5 2019

NATHAN CONNORS LICENSE No 81168 STATE OF FLORIDA PROFESSIONAL ENGINEER

Nathan Connors, P.E.
License #81168
Harrison French & Associates, LTD
COA #26421

ISSUE BLOCK

STORE NO.	724
DOCUMENT DATE:	03/15/19
CHECKED BY:	NKC
DRAWN BY:	CAR
PROTO CYCLE:	

SCHEDULES & NOTES

SHEET: YE2

Mar15,2019-1:51pm - User chris.richardson
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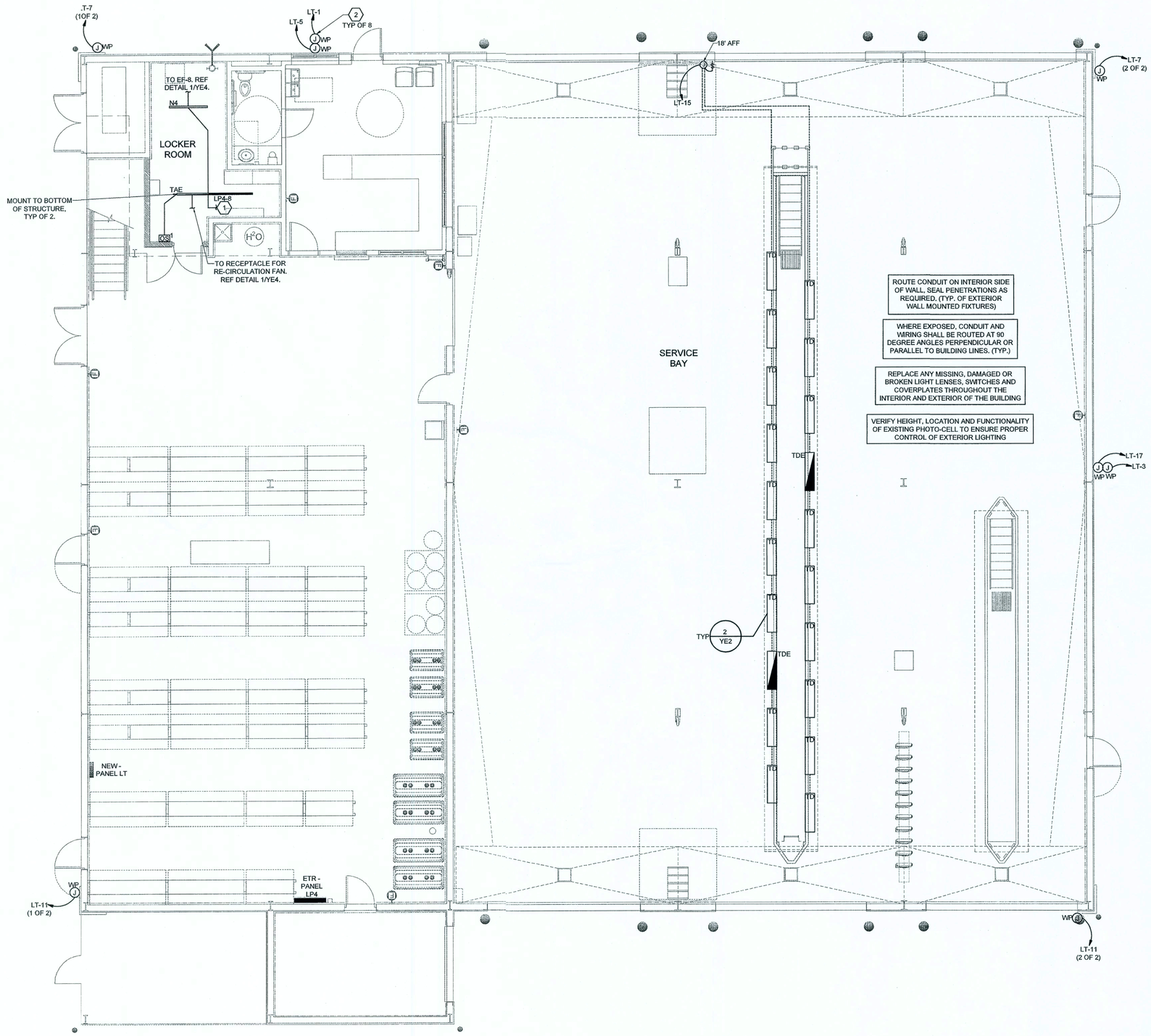

1 LIGHTING FLOOR PLAN

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

LIGHTING NOTES

1. EXIT SIGN MOUNTING
   A. WALL FIXTURE: CENTER 12" ABOVE DOOR OPENING.
   B. CEILING/PENDANT FIXTURE: ON CEILING OR AT HEIGHT SPECIFIED ON DRAWINGS.
   C. THE USE OF TRITIUM BASED RADIOACTIVE EXIT SIGNAGE SHALL NOT BE ALLOWED.
2. EMERGENCY LIGHT INSTALLATION FIXTURE MOUNTING
   A. WALL FIXTURE: 12" BELOW FINISHED CEILING OR +10'-0" IN AREAS OF EXPOSED STRUCTURE UNLESS NOTED OTHERWISE.
   B. PENDANT FIXTURE: BOTTOM CHORD OF STRUCTURE OR AT HEIGHT SPECIFIED ON DRAWINGS.
   C. REMOTE HEAD FIXTURE: HEADS CENTERED ABOVE DOOR OPENING +9'-0" UNLESS NOTED OTHERWISE.

   ELECTRICAL CONNECTION
   A. REFER TO MANUFACTURER'S WRITTEN INSTRUCTIONS. ALLOW BATTERY TO CHARGE CONTINUOUSLY FOR A MINIMUM OF 168 HOURS BEFORE INITIAL TESTING.
   B. AFTER EMERGENCY LIGHT HAS BEEN POWERED, DO NOT TURN OFF FOR EXTENDED PERIODS OF TIME.
3. EXIT SIGNS AND EMERGENCY LIGHTS SHALL BE FED FROM THE SAME BRANCH CIRCUIT AS THAT SERVING THE NORMAL LIGHTING IN THAT AREA AND CONNECTED AHEAD OF ANY LOCAL SWITCHES OR TIME CLOCKS.
4. EMERGENCY EXIT ILLUMINATION SHALL BE SUPPLIED FROM STORAGE BATTERY THAT IS TO PROVIDE 90 MINUTES OF CONTINUED ILLUMINATION IN CASE OF PRIMARY POWER LOSS.
5. PROVIDE SEPARATE BOXES FOR GANGED SWITCHES ON SEPARATE BRANCH CIRCUITS.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ASSURING THAT ALL NEW LIGHT FIXTURES WORK PROPERLY. REPORT DEFECTIVE OR DAMAGED COMPONENTS TO OWNER.
7. CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS TO MAINTAIN BRANCH CIRCUITS TO EXISTING LIGHT FIXTURES THAT ARE TO REMAIN. WHERE EXISTING CIRCUITS ARE ROUTED IN AREAS BEING DEMOLISHED, RE-ROUTE IN NEW CONSTRUCTION AND RECONNECT.
8. CONTRACTOR SHALL FURNISH AND INSTALL UNISTRUT AS REQUIRED TO MOUNT FIXTURES TO STRUCTURAL MEMBERS.
9. CONDUIT AND WIRING IN AREAS WHERE EXPOSED SHALL BE ROUTED AT 90 DEGREE ANGLES PERPENDICULAR OR PARALLEL TO BUILDING LINES.

(X) KEYNOTES

1. CONNECT TO EXISTING CIRCUIT CURRENTLY SERVING AREA LIGHTING. VERIFY EXISTING CIRCUIT CAN ACCOMMODATE NEW LOAD.
2. REFERENCE ARCHITECTURAL ELEVATIONS FOR LOCATION AND MOUNTING HEIGHT FOR SIGNAGE. ROUTE CIRCUIT THROUGH EXISTING LIGHTING CONTACTOR.

MAR 19 2019

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LAKE CITY, FL
32025

SPEEDCO RE-BRANDING
PROJECT NUMBER: 03-19-60724

Love's Travel Stop & Country Stores

NATHAN CONNORS LICENSE No 81168 STATE OF MISSOURI PROFESSIONAL ENGINEER

Nathan Connors, P.E.
License #81168
Harrison French & Associates, LTD
COA #26421

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STORE NO.	724
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LIGHTING FLOOR PLAN

SHEET: YE3

Mar15,2019-1:51pm - User:chris.richardson
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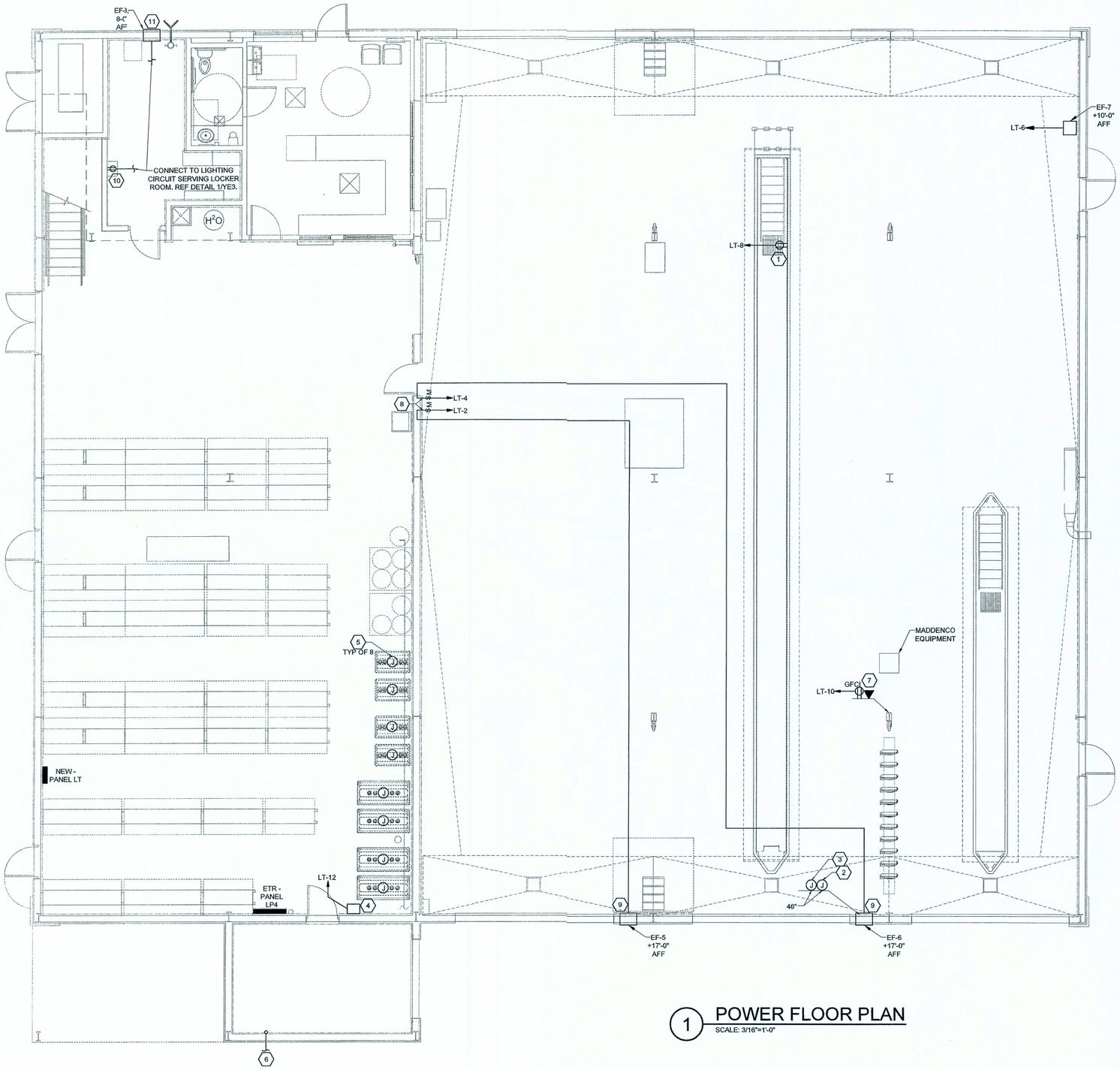

1 POWER FLOOR PLAN

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

KEYNOTES

1. INSTALL AN EXPLOSION PROOF 20A 120V RECEPTACLE WITH TOP AT 16" ABOVE BOTTOM OF PIT. REPLACE PLUG ON SUMP PUMP CORD WITH MATCHING EXPLOSION PROOF CONNECTOR. INSTALL SEAL-OFFS ON CONDUIT. ROUTE SUMP PUMP POWER THROUGH GRATE.
2. USED OIL CONTROL SWITCH. REF OIL DRAWINGS FOR SPECIFIC DETAILS.
3. ACKNOWLEDGEMENT SWITCH FOR WITH AUDIBLE OVERFILL ALARM. REF OIL DRAWINGS FOR SPECIFIC DETAILS.
4. FUEL MONITORING PANEL. COORDINATE LOCATION WITH FUEL CONTRACTOR. PROVIDE (1) 3/4" CONDUIT FOR POWER FROM PANEL LP4. PROVIDE (1) 3/4" CONDUIT FOR NETWORK CONNECTION FROM BOTTOM OF CEILING JOIST. REFERENCE OIL DRAWINGS FOR SPECIFIC DETAILS.
5. ROUTE (2) 3/4" CONDUITS FROM FUEL MONITORING PANEL TO EACH OIL TANK FOR TANK PROBE AND SENSOR. TERMINATE AT JUNCTION BOXES LOCATED ON TOP OF TANKS. REF OIL DRAWINGS FOR SPECIFIC DETAILS.
6. PROVIDE (1) 1" GRC CONDUIT TO ABOVE GROUND USED OIL TANK FROM FUEL MONITORING PANEL. REF SHEET YE5 FOR ROUTING.
7. DOUBLE GANG BOX MOUNTED AT 48" FOR DIAGNOSTICS STATION. ROUTE 1" GRC CONDUIT WITH PULL STRING FROM BOTTOM OF JOIST TO DOUBLE GANG BOX FOR DATA CABLES. PROVIDE SEPARATE 1" GRC CONDUIT FOR POWER TO GFIC RECEPTACLE.
8. LABEL EACH SWITCH COVERPLATE USING CLEAR THERMAL TRANSFER (ELETRIC DYMO) LABELS WITH 1/8" HIGH LETTERS.
9. EXHAUST FAN WITH FACTORY INSTALLED DISCONNECT.
10. RECEPTACLE FOR RE-CIRCULATION FAN MOUNTED 9" BELOW CEILING. RECEPTACLE TO BE CONTROLLED BY OCCUPANCY SENSOR CONTROLLING LOCKER ROOM LIGHTING. REF DETAIL 1/YE3.
11. EXHAUST FAN TO BE CONTROLLED BY OCCUPANCY SENSOR CONTROLLING LOCKER ROOM LIGHTING. REF DETAIL 1/YE3

REPLACE ANY MISSING, DAMAGED OR BROKEN RECEPTACLES AND COVER PLATES THROUGHOUT THE INTERIOR AND EXTERIOR OF THE BUILDING.

EXISTING SECURITY SYSTEM TO BE MODIFIED BY OTHERS. COORDINATE DISRUPTIONS AND NECESSARY MODIFICATIONS TO THE SECURITY SYSTEM WITH GENERAL CONTRACTOR.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT HIMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING HIS WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

HFA ARCHITECTS ENGINEERS INTERIORS

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13700 S. US HIGHWAY 441
LAKE CITY, FL
32025

SPEEDCO RE-BRANDING
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MAR 15 2019

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LICENSE
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STATE OF FLORIDA
PROFESSIONAL ENGINEER

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POWER FLOOR PLAN

SHEET: YE4

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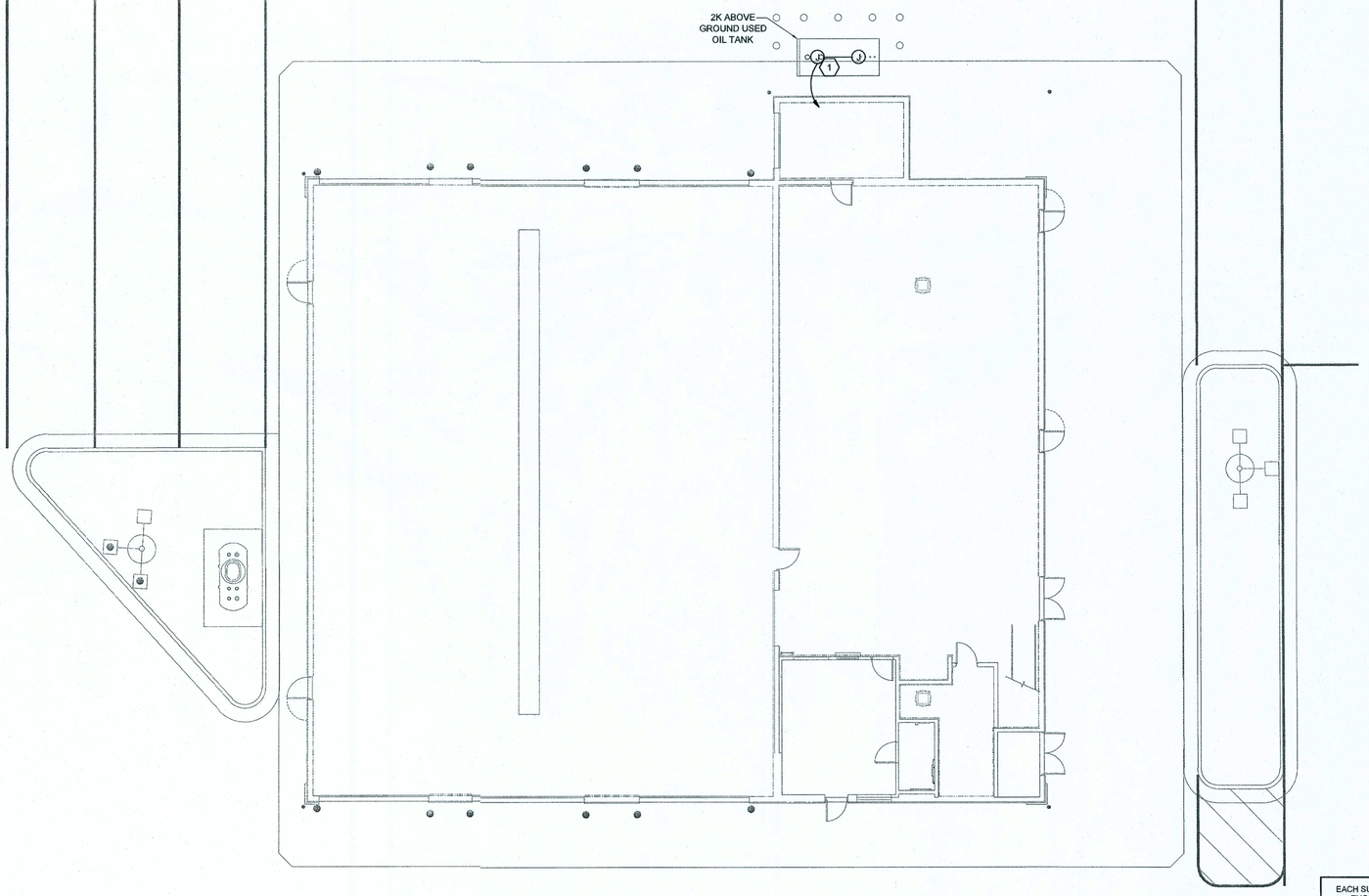
KEYNOTES

1. INSTALL 1" GRC FOR TANK PROBE AND SENSOR FROM FRANKLIN FUEL MONITORING PANEL. ROUTE CONDUIT ALONG FUEL PIPING. REFER TO OIL DRAWING FOR MORE INFORMATION.



1 SITE POWER PLAN
SCALE: 1"=10'-0"

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SITE POWER PLAN

SHEET: YE5

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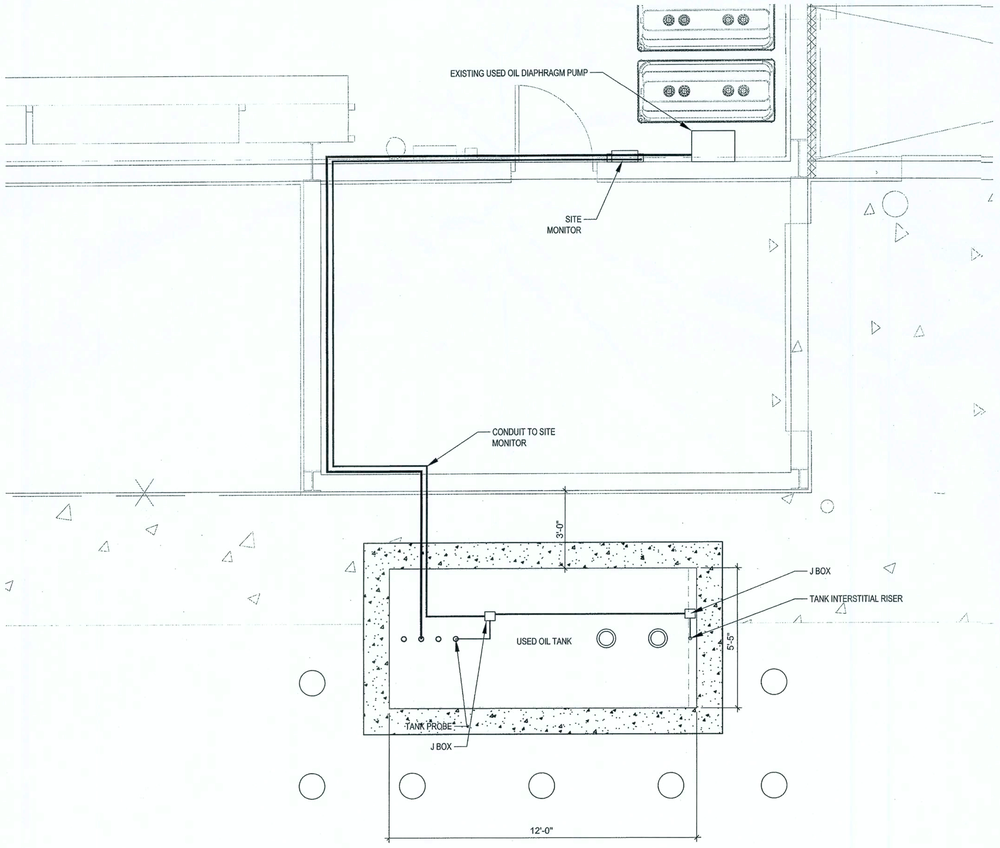
USED OIL AST SCOPE OF WORK NOTES:

1. INSTALLATION OF 2,000 GALLON DOUBLE WALLED ABOVEGROUND STORAGE TANK FOR USED OIL STORAGE.
2. CONCRETE PAD FOR 2,000 GALLON AST.
3. INSTALLATION OF FRANKLIN FUELING TS-550 SITE MONITOR WITH NETWORK CONNECTION.
4. EXISTING USED OIL SHALL BE DRAINED AND NEW OIL SHALL BE ADDED TO TANK WITH NEW PNEUMATIC PUMP, TANK PROBE, AND INTERSTITIAL SENSOR TIES INTO SITE MONITOR.
5. EXISTING OIL AST(s) SHALL HAVE TANK PROBES AND INTERSTITIAL SENSORS ADDED AND TIED INTO THE SITE MONITOR.
6. INSTALLER SHALL ROUTE 1" BLACK IRON USED OIL PIPE FROM EXISTING DIAPHRAGM PUMP TO NEW 2,000 GALLON USED OIL STORAGE TANK.
7. INSTALLER SHALL ROUTE 1" BLACK IRON USED OIL PIPE ALONG TIRE SHOP WALL ABOVE ALL MAN DOORS.
8. USED OIL FLEX HOSE FROM NEW PIT SHALL MANIFOLD TO EXISTING LINE AT DIAPHRAGM PUMP AND STRAINER.
9. USED OIL STRAINER SHALL BE INSTALL AT BOTH PIT(S).
10. OVERFILL ALARM AND ACKNOWLEDGEMENT SWITCH SHALL BE LOCATION BETWEEN BAY DOORS AT WALL.
11. INSTALL USED OIL SOLENOID SWITCH BETWEEN BAY DOORS TO CONTROL DIAPHRAGM PUMP IN TIRE STORAGE AREA.

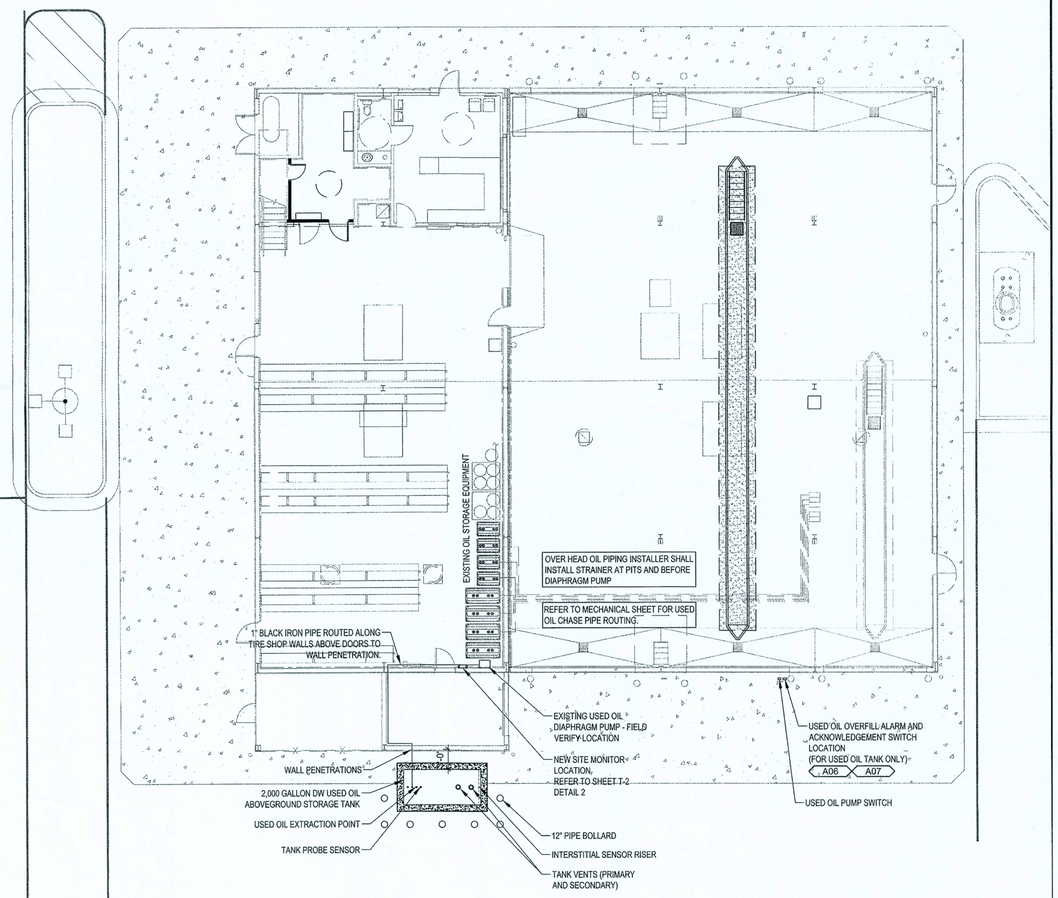
USED OIL ABOVEGROUND STORAGE TANK EQUIPMENT

ITEM #	DESCRIPTION	QTY.	PART #	MANUFACTURER
A01	2,000 GALLON DW AST	1	--------	IOME
A02	SITE MONITOR	1	TS-550	FRANKLIN FUELING
A03	TANK PROBE	FIELD VERIFY	TSP-HLS	FRANKLIN FUELING
A04	INTERSTITIAL SENSOR	FIELD VERIFY	TSP-HFS	FRANKLIN FUELING
A05	SENSOR RISER CAP	FIELD VERIFY	TSP-K12	FRANKLIN FUELING
A06	OVERFILL ALARM	2	TS-RA1	FRANKLIN FUELING
A07	REMOTE FILL ACKNOWLEDGE SW	2	TS-RK	FRANKLIN FUELING
A08	PNEUMATIC OIL PUMP	1	--------	(MATCH EXISTING)



2 USED OIL TANK SENSOR CONDUIT DETAIL

SCALE: 3/8" = 1'-0"



1 TIRE SHOP OIL STORAGE LAYOUT

SCALE: 3/32" = 1'-0"

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13700 S. US HIGHWAY 441
LAKE CITY, FL
32025

USED OIL AST

PROJECT NUMBER: 03-19-60724

Love's Travel Stop & Country Stores

RYAN S. RAY LICENSE No. 64568 STATE OF FLORIDA PROFESSIONAL ENGINEER

Ryan Stewart Ray

Digitally signed by Ryan Stewart Ray
DN: cn=Ryan Stewart Ray, c=ryan.ray@hfa-ae.com, o=Ryan Stewart Ray, ou=Harrison French and Associates, Ltd., l=Bentonville, S=ARKANSAS, C=US
Date: 2019.03.15 10:59:56-05'00'

Ryan S. Ray, P.E.
License #64568
Harrison French & Associates, LTD
COA #26421

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USED OIL PIPING AND ABOVEGROUND STORAGE TANK LAYOUT

SHEET: T-1

Mar14,2019-4:02pm - User:waylon.barnes
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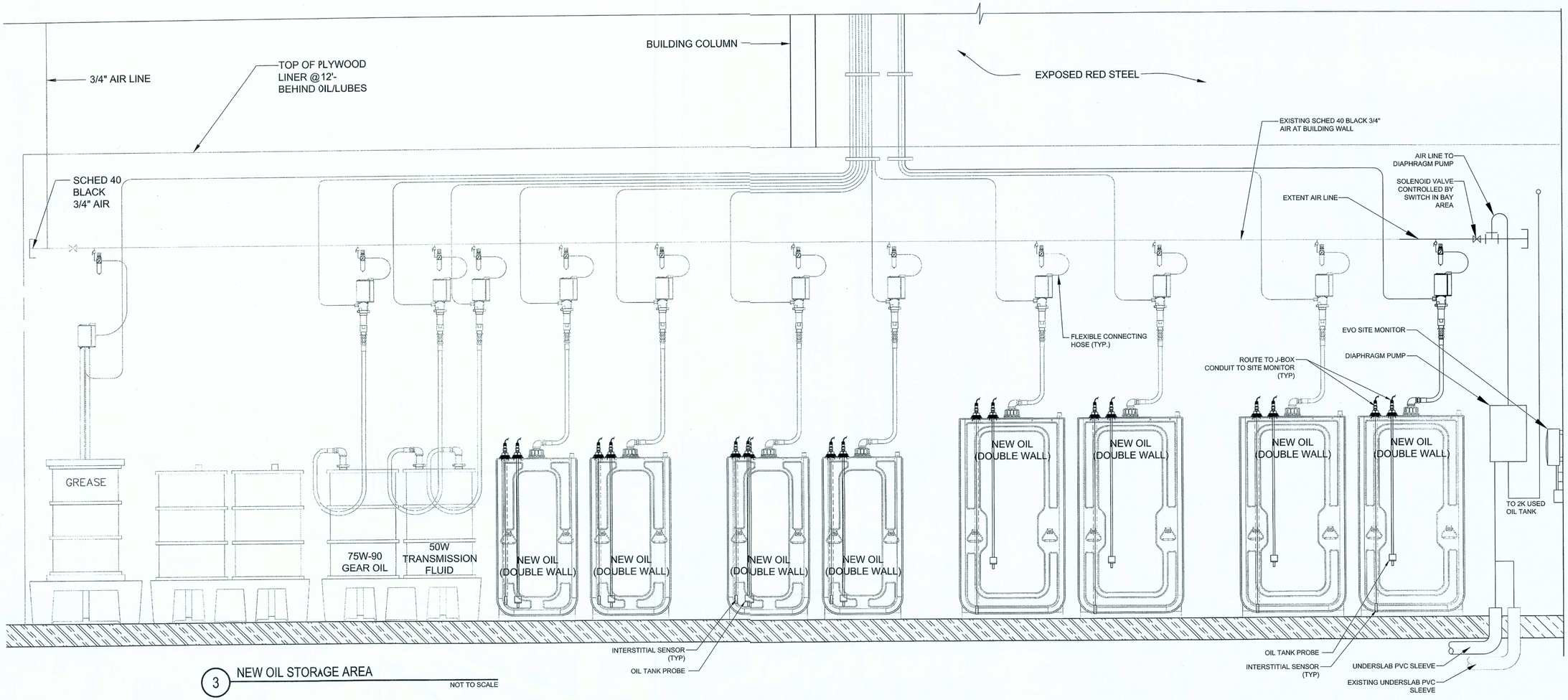
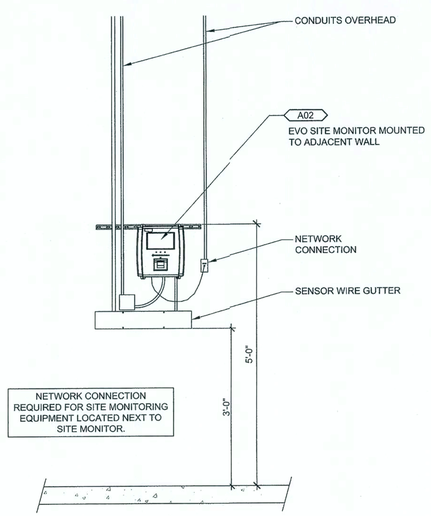


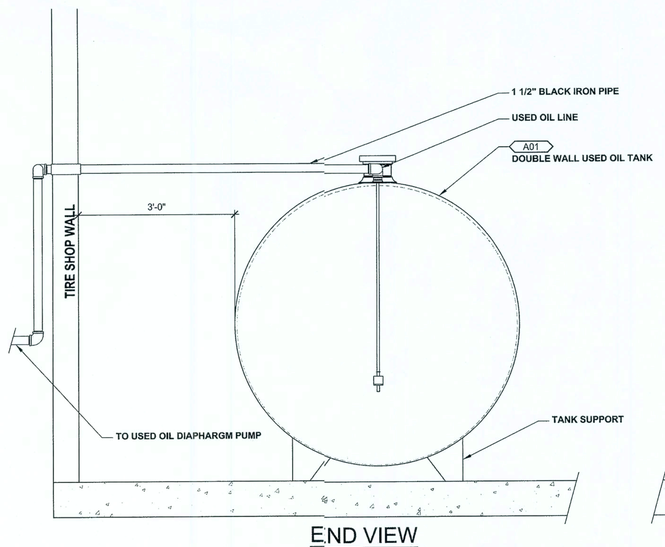
3 NEW OIL STORAGE AREA

NOT TO SCALE

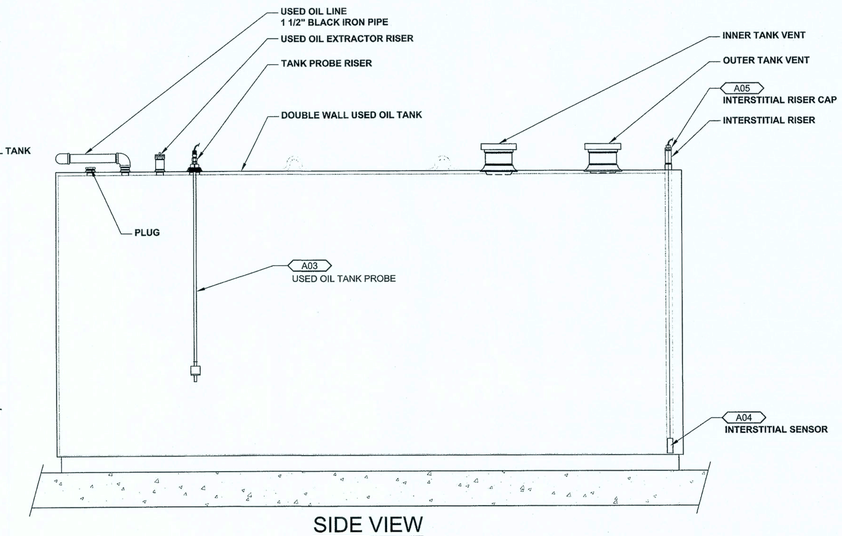


2 SITE MONITOR PANEL

NOT TO SCALE



END VIEW



SIDE VIEW

1 2,000 GALLON USED OIL AST ELEVATION DETAIL

NOT TO SCALE

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Loves® Travel Stop & Country Stores

RYAN S. RAY LICENSE No. 64568 STATE OF FLORIDA PROFESSIONAL ENGINEER

Ryan Stewart Ray
Digitally signed by Ryan Stewart Ray
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USED OIL TANK AND EQUIPMENT DETAILS

SHEET: T-2