

TOTAL SITE AREA 24,480 sq ft = .56 AC
 TOTAL BUILDING AREA 2,632 SQ. FT.

REQUIRED PARKING SPACES 2 SPACES/3 EMPLOYEES SAY 4 SPACES REQUIRED

PROPOSED PARKING SPACES ON SITE PARKING 6 SPACES

TYP. PARKING DIM. 9'-0" x 20'-0"
 B.F. PARKING SPACE 16'-0" x 20' (1)



ZIAD EL-BABA ENGINEERING

674 GAUTHIER
 TECUMSEH ONTARIO
 N8N3P8 CANADA
 CELL -313-938-8767
 CELL -519-796-9882
 FAX -519-979-3535

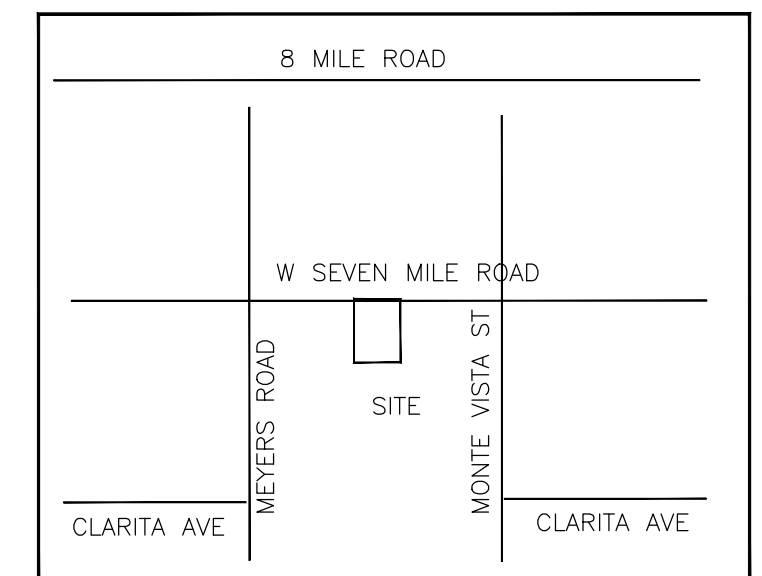
DATE	REV. NO.	ISSUED FOR
JUN.08.22		PERMIT

Project:
 NEW CAR WASH
 10755 W 7 MILE ROAD
 DETROIT MI
 OWNER

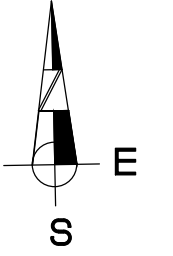
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Project Number	
Scale	AS NOTED
Date	
Drawn By	
Checked By	

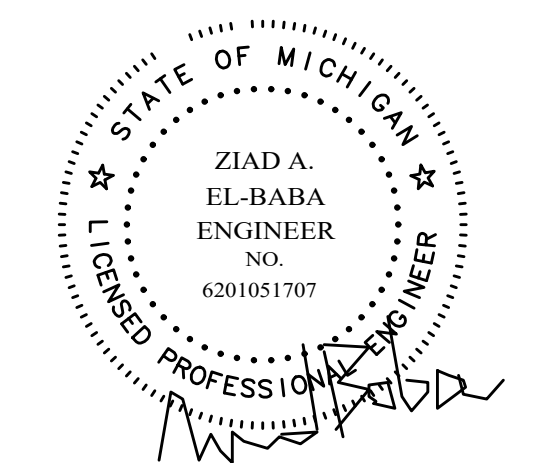
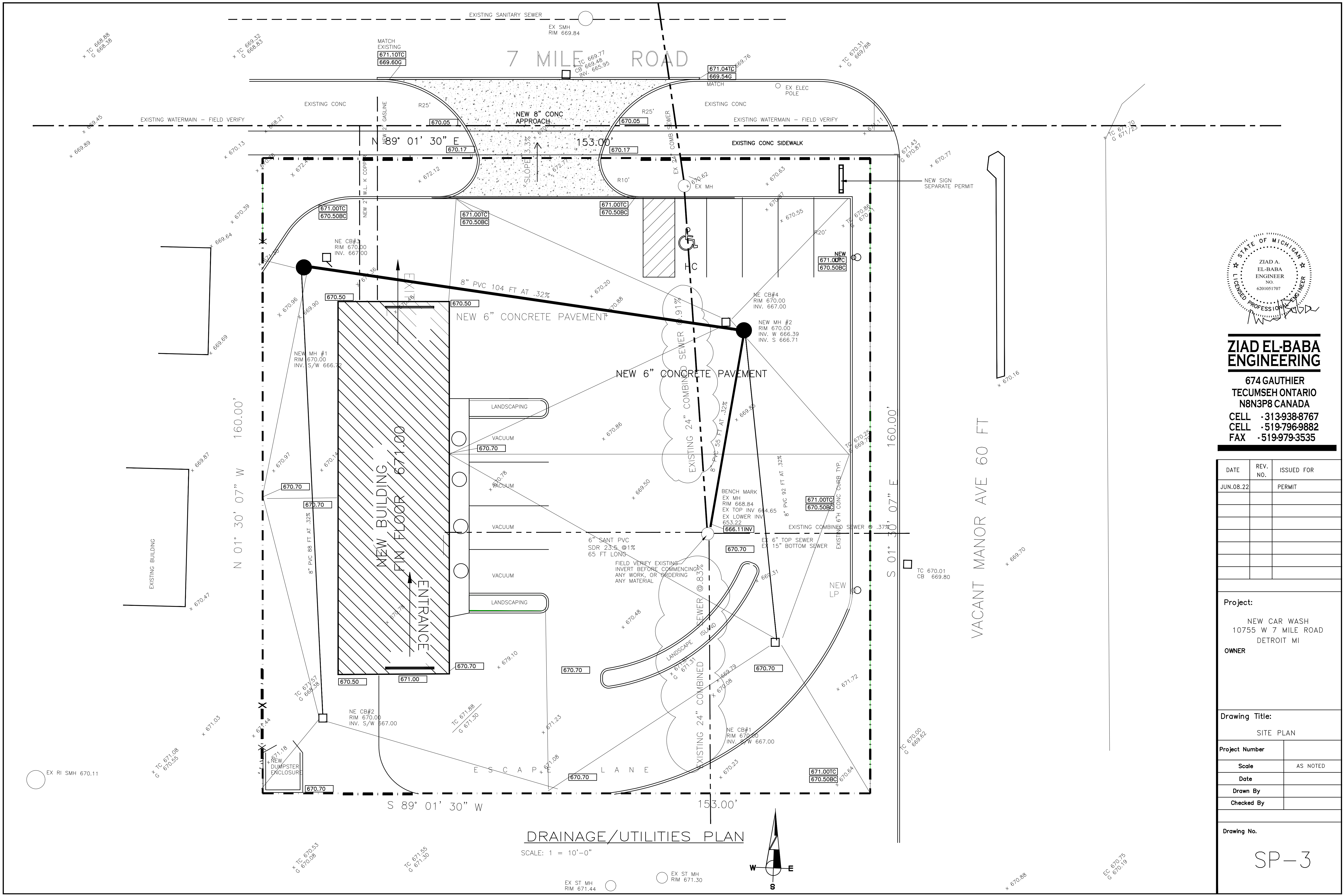
Drawing No. SP-2



KEY PLAN
 CALL 'MISS DIG' 72 HOURS BEFORE COMMENCING ANY SITE EXCAVATION.



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



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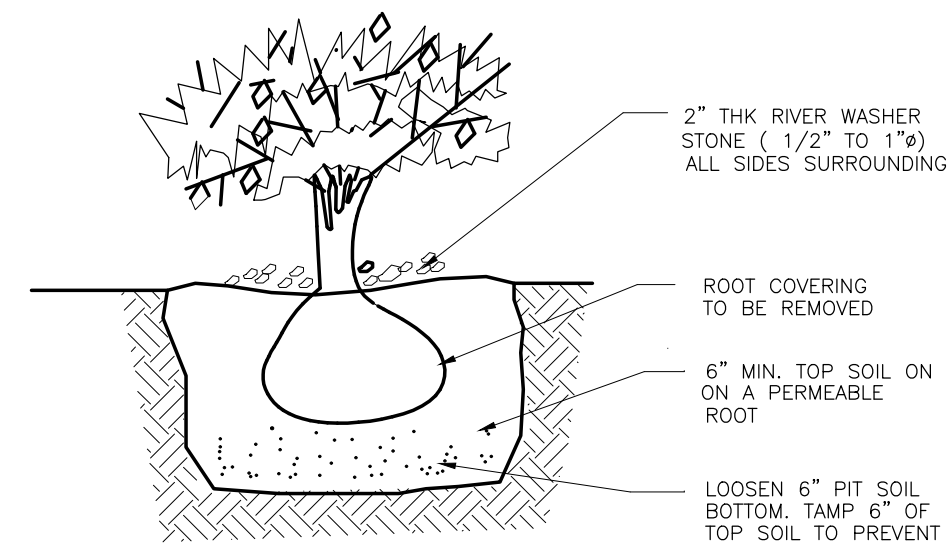
DATE	REV. NO.	ISSUED FOR
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NEW CAR WASH
10755 W 7 MILE ROAD
DETROIT MI
OWNER

Drawing Title:
SITE PLAN

Project Number	
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Date	
Drawn By	
Checked By	

Drawing No.
SP-3



SHRUB DETAIL

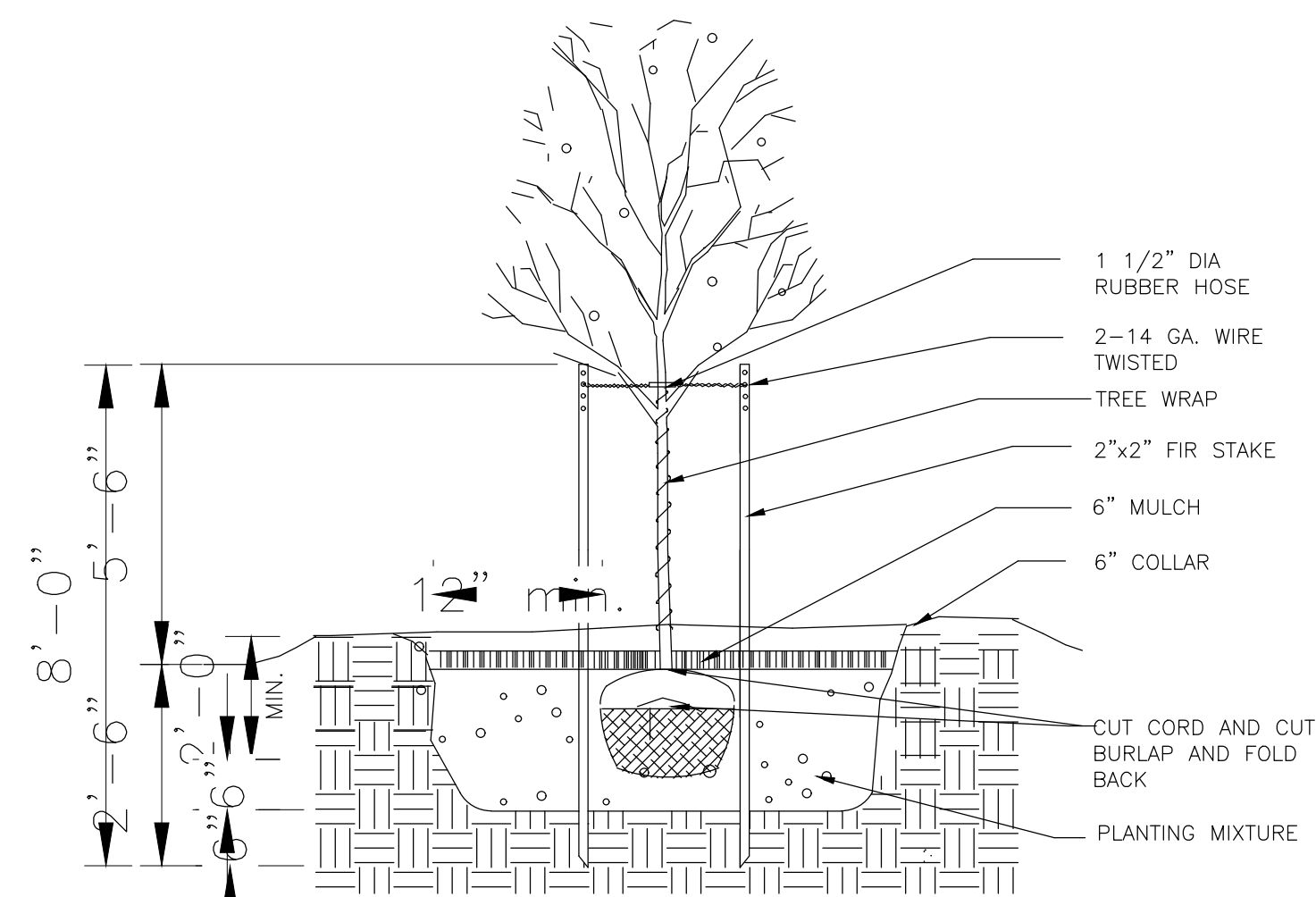
FOR SHRUB TYPE SEE ARCH/OWNER SEE PLAN FOR LOCATIONS

LANDSCAPING PLAN

TYPE	SYMBOL	SIZE	QUANTITY
BOXWOOD SHRUB		1'-0" HIGH	54
DECIDUOUS TREE RED MAPLE		5'-6" HIGH	12

LANDSCAPING NOTES:

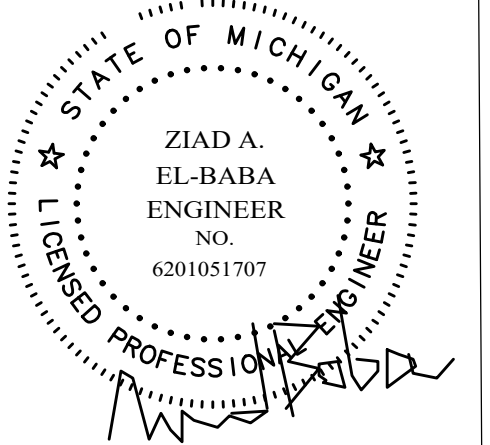
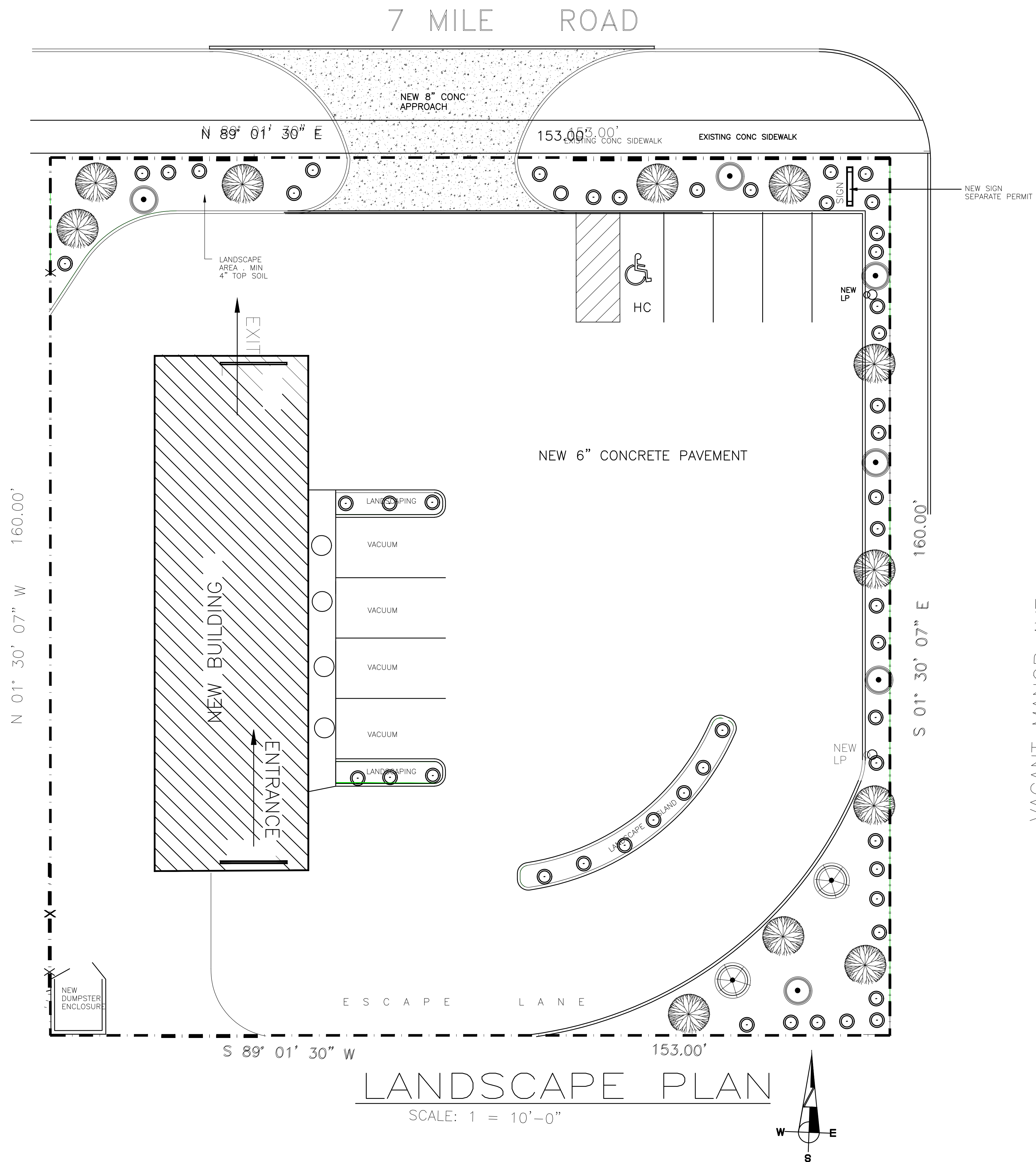
- EXISTING TOP SOIL FOUND TO BE IN CONDITION TO BE STORED ON SITE AND PROTECTED FROM EXTREME WEATHER CONDITIONS, BAD SOIL TO BE DISPOSED IN LEGAL MANNER.
- ALL LANDSCAPED AREA (L.S. AREA) TO RECEIVE MIN. 4" TOP SOIL WITH SOD. PROVIDE FERTILIZER UNDER SOD, ALL PER TWP./CITY STANDARDS.
- SEEDING AREA SHALL ALSO RECEIVE FERTILIZER TO TWP./CITY STANDARDS.
- ALL PLANT MATERIALS SHALL MEET MIN. TWP./CITY LANDSCAPING STANDARDS.
- CONTRACTOR TO GUARANTEE IN WRITING FOR ONE GROWING SEASON AGAINST ANY DEFECTS.
- SHRUBS SHALL BE AT MAX. OF 12" HIGH, (SPREADING ENGLISH EVERGREEN WITH SEASONAL FLOWERS IN BETWEEN IF CALLED ON DWGS).
- ALL TREES TO BE EVERGREEN TREES AT 30'-0" SPACING
* PLANTED PER CHESTERFIELD TWP STANDARDS, INCLUDES: GUY WIRES, IRON T-BAR TREE STAKES, SPIRALLY WOUND TREE ETC.



Deciduous Tree Planting NTS

NEW LANDSCAPING TABLE

TYPE	SYMBOL	SIZE	BOTANICAL	QUANTITY
SHRUB		2'-0" FT. HIGH MIN 4'-6" C/C	SPIREA SHRUB	46
SNOWDRIFT CRABAPPLE		4" CAL. 7" CLEAR STEM MIN		6
DECIDUOUS BLOODGOOD JAPANESE MAPLES		B&B ROOT 3" CALIP. @ 25' C/C	RED MAPLE	11
EVERGREEN SILVER FIR		B&B ROOT, 5' HIGH 2 1/2" CALIP.	ABIES ALBA	2



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



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NEW CAR WASH
10755 W 7 MILE ROAD
DETROIT MI

OWNER

Drawing Title:
LANDSCAPE PLAN

Project Number	Scale	Date	Drawn By	Checked By
	AS NOTED			

Drawing No.
SP-4

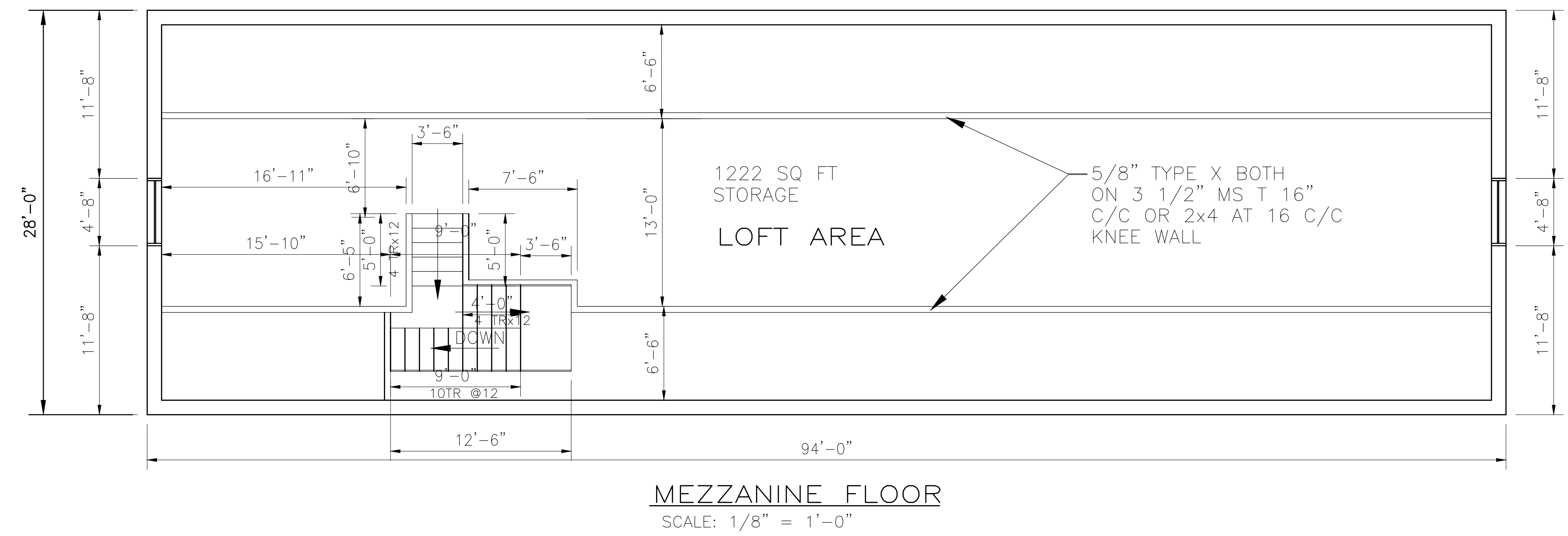
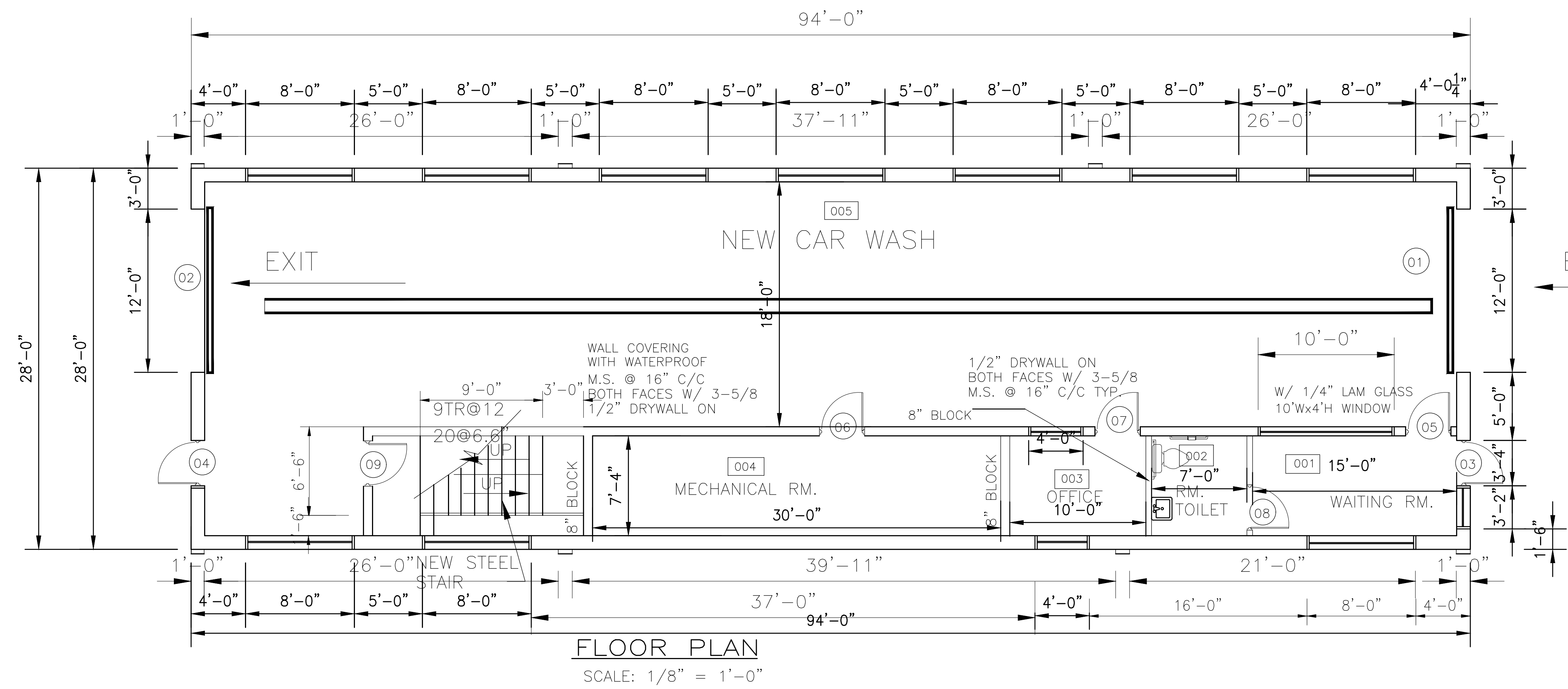
-  "FA" 2'x4' LAY-IN FLUORESCENT FIXTURE WITH 3-F40 T12 LAMPS WITH ACRYLIC LENS. LITHONIA CAT.# 2CT-340-A12 OR APPROVED EQUAL
-  "EM" EMERGENCY LIGHTING UNIT WITH SEALED BATTERY MIN 120 MIN BACKUP INTENSITY TEST SWITCH AND READY LIGHT 120VAC OPERATION LITHONIA CAT.# ELU-2H OR APPROVED EQUAL
-  EXIT LIGHT STENCIL FACE 6" HIGH RED LETTERS SEALED BATTERY. MIN 120 MIN INTENSITY LITHONIA CAT.# ESIR-ELC OR APPROVED EQUAL
-  EXIT AND EMERGENCY LIGHTS COMBINED

CODE COMPLIANCE

ALL WORK MUST CONFORM TO

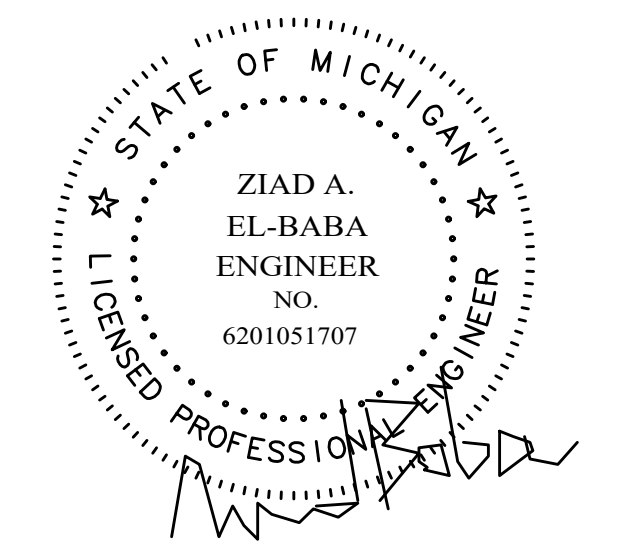
2015 MICHIGAN BUILDING CODE
 2017 INTERNATIONAL FIRE CODE
 2015 MICHIGAN MECHANICAL CODE
 2015 MICHIGAN PLUMBING CODE
 2017 NATIONAL ELECTRIC CODE WITH PART 8 RULES

ANSI 117.1-2015 (ACCESSIBILITY)
 ASHRAE 90.1 - 2007



FLOOR AREA 2,632 SQ.FT.
 SECOND FLOOR 1,200 SQ.FT.

USE GROUP : S-1
 CONSTRUCTION TYPE : IIIB



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Project:

NEW CAR WASH
 10755 W 7 MILE ROAD
 DETROIT MI

OWNER

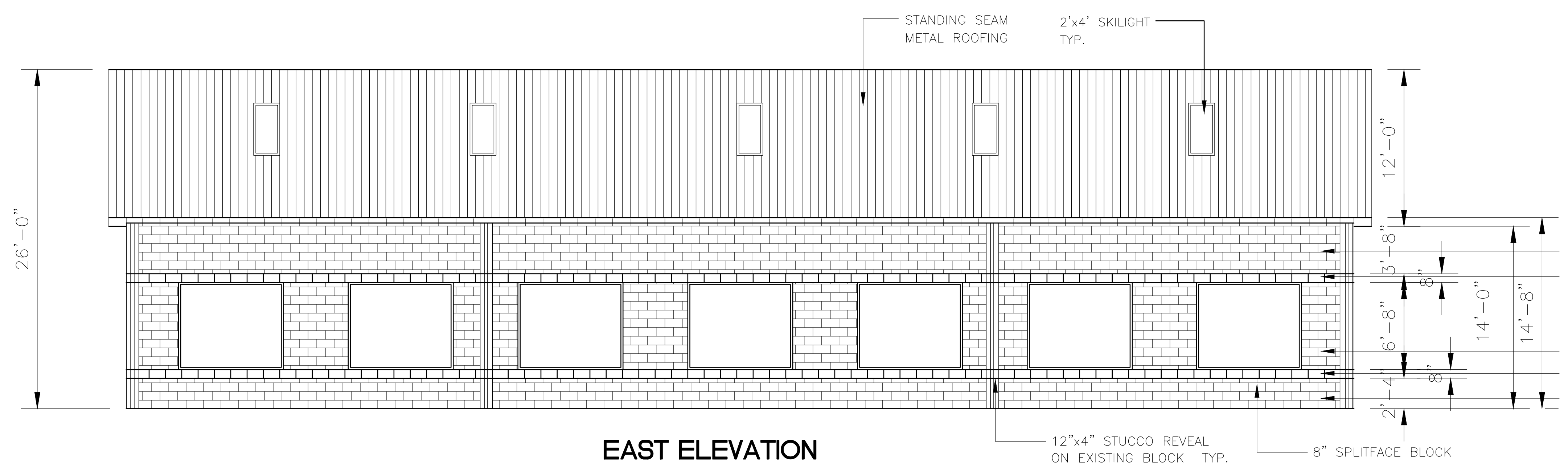
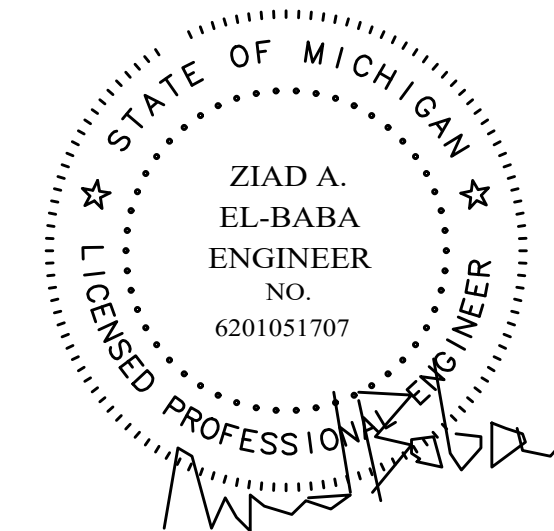
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FLOOR PLANS

Project Number	
Scale	AS NOTED
Date	
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Drawing No.

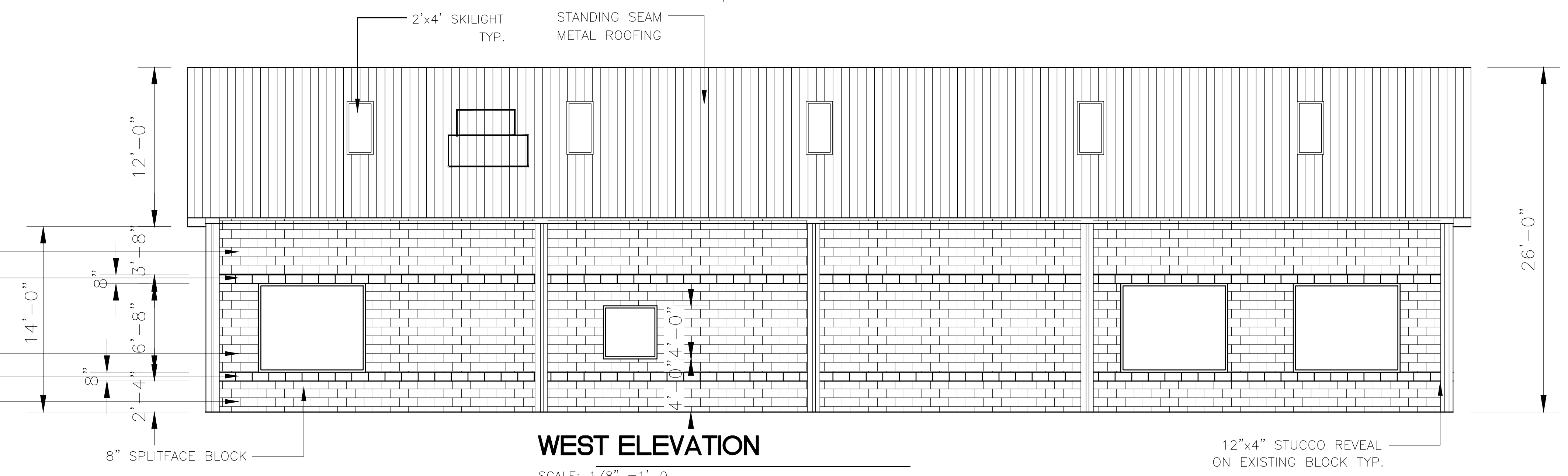
A-1



EAST ELEVATION

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

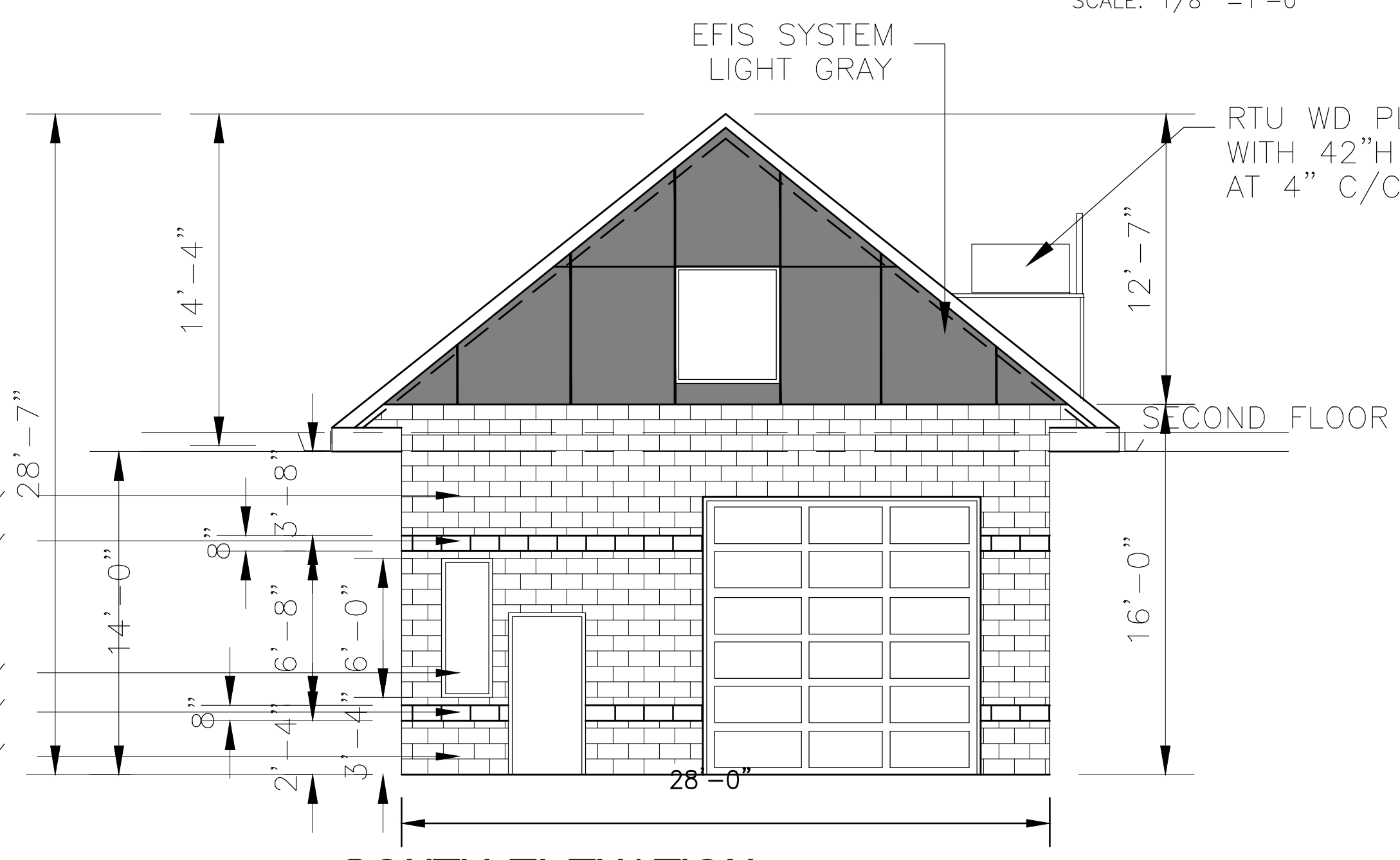
- SPLITFACE BLOCK - DARK GRAY
- SMOOTH SPLITFACE BLOCK - LIGHT GRAY
- SPLITFACE BLOCK - DARK GRAY
- SMOOTH SPLITFACE BLOCK - LIGHT GRAY
- SPLITFACE BLOCK - DARK GRAY



WEST ELEVATION

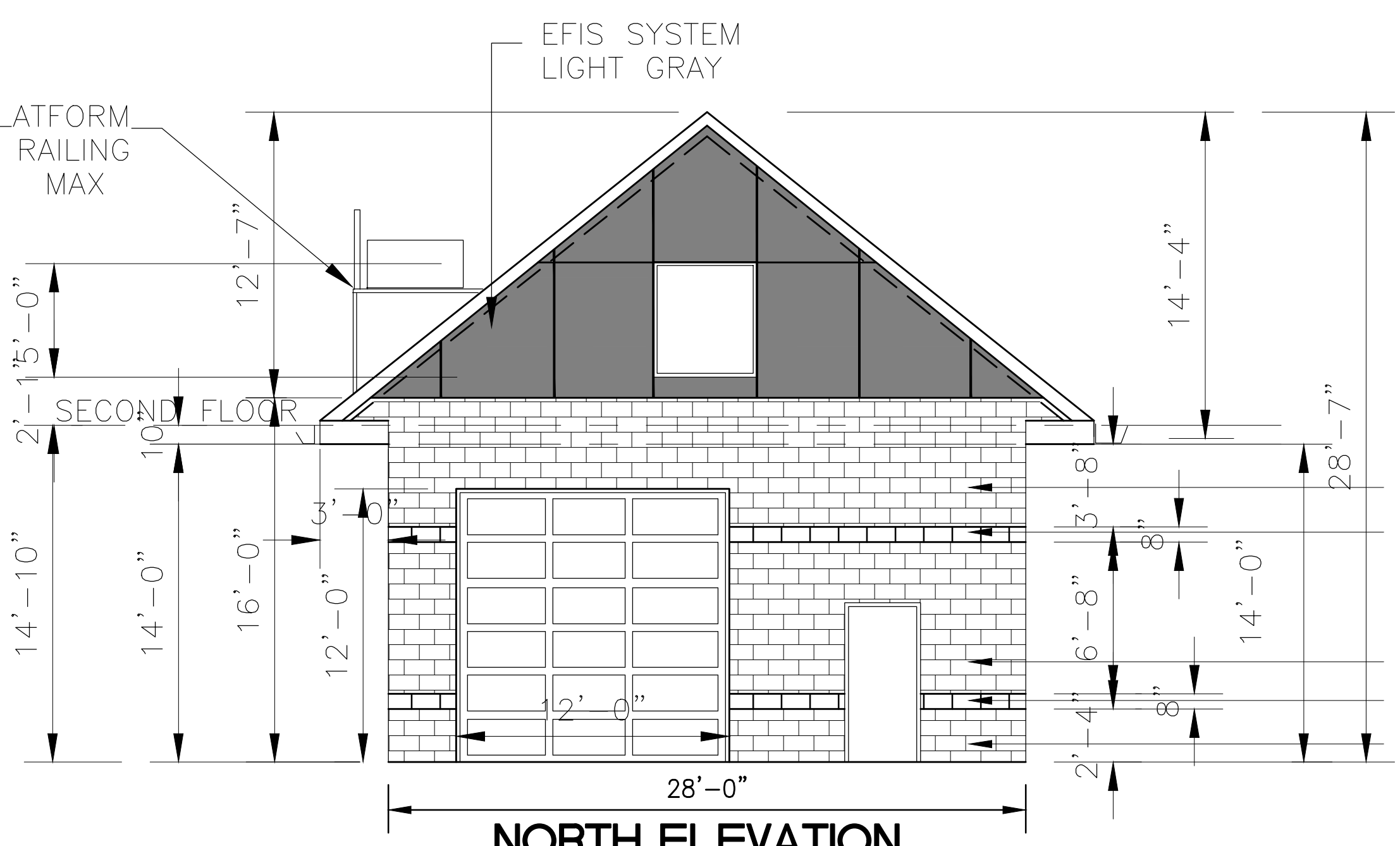
SCALE: 1/8" = 1'-0"

- SPLITFACE BLOCK - DARK GRAY
- SMOOTH SPLITFACE BLOCK - LIGHT GRAY
- SPLITFACE BLOCK - DARK GRAY
- SMOOTH SPLITFACE BLOCK - LIGHT GRAY
- SPLITFACE BLOCK - DARK GRAY



SOUTH ELEVATION

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



NORTH ELEVATION

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

- SPLITFACE BLOCK - DARK GRAY
- SMOOTH SPLITFACE BLOCK - LIGHT GRAY
- SPLITFACE BLOCK - DARK GRAY
- SMOOTH SPLITFACE BLOCK - LIGHT GRAY
- SPLITFACE BLOCK - DARK GRAY

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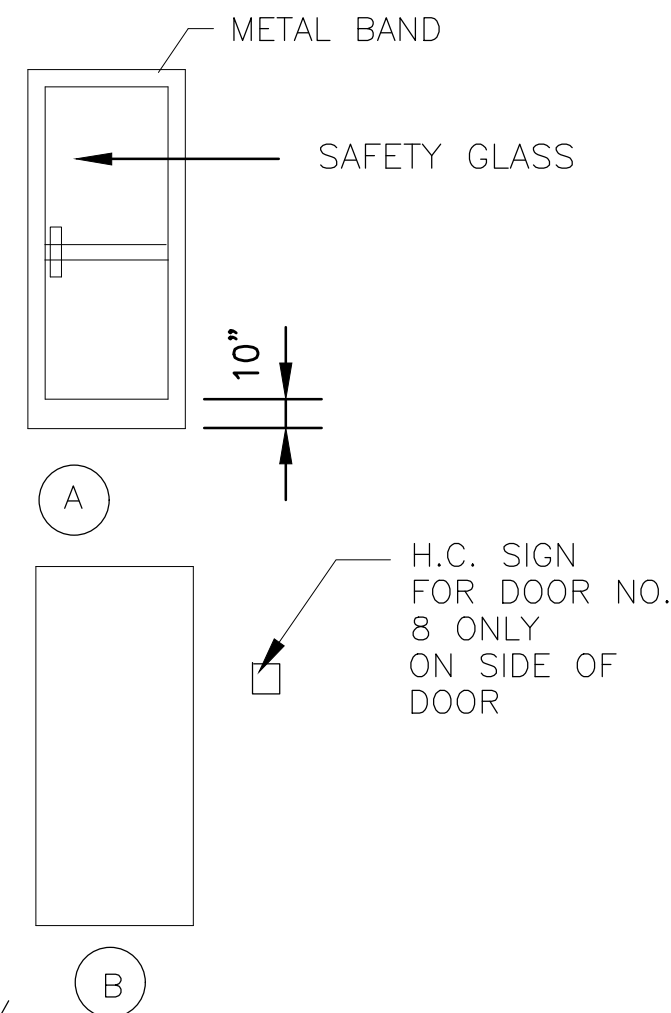
Project:
NEW CAR WASH
10755 W 7 MILE ROAD
DETROIT MI
OWNER

Drawing Title:
ELEVATIONS

Project Number	Scale	Date	Drawn By	Checked By
	AS NOTED			

Drawing No.
A-2

DOOR SCHEDULE					
NO.	DOOR		FRAME	HARD.	REMARKS
	SIZE	MTL	MTL	TYPE	
1	12'W x 12' H	METAL	METAL	BY DOOR SUPPL	MOTORIZED SEE OWNER
2	12'W x 12' H	METAL	METAL	BY DOOR SUPPL	MOTORIZED SEE OWNER
3	3'x7'x1 3/4	H.M.	H.M.	1	DOOR TYPE B
4	3'x7'x1 3/4	H.M.	H.M.	1	DOOR TYPE B
5	3'x7'x1 3/4	H.M.	H.M.	3	DOOR TYPE B
6	3'x7'x1 3/4	H.M.	H.M.	3	DOOR TYPE B
7	3'x7'x1 3/4	H.M.	H.M.	3	DOOR TYPE B
8	3'x7'x1 3/4	H.M.	H.M.	2	DOOR TYPE B
9	3'x7'x1 3/4	H.M.	H.M.	1	DOOR TYPE B



HARDWARE TYPES:

- (3) 1 1/2" BUTTS/PUSH. PULL PLATES/DEAD BOLTS W/ TURN BOTTON/CLOSER/ WEATHER STRIP/KICK PLATES (BOTH SIDES)/TREASHOLD MAX 1/2" IN HEIGHT/PANIC BAR OPEN WITHOUT A KEY (FROM INSIDE) AT 34" MIN AND 42" MAX MOUNTING HEIGHT. THE UNLATCHING OF ANY DOOR LEAF SHALL NOT REQUIRE MORE THAN ONE OPERATION AND DO NOT REQUIRE GRASPING, PINCHING OR TWISTING OF THE WRIST FORCE ON ALL INTERIOR DOORS 5 LBS , BYFOLD AND FULL SWING 15 LBS
- 1 1/2 PR. BUTTS/PUSH. PULL PLATES/WALL BUMPER/CLOSER/SIGN
- 1 1/2 PR BUTTS/LEVER HANDLES/PRIVACY SET/WALL BUMPER/CLOSER/
ALL DOORS AND DOOR FRAMES TO BE 16 Ga.
PROVIDE SHOP DRAWINGS OF ALL DOOR HARDWARE :LATCHES,/LOCKS, THRESHOLDS, CLOSER TO BE HANDICAPPED ACCESSIBILITY REQUIREMENTS AND TO BE SUBMITTED TO CITY FOR APPROVAL

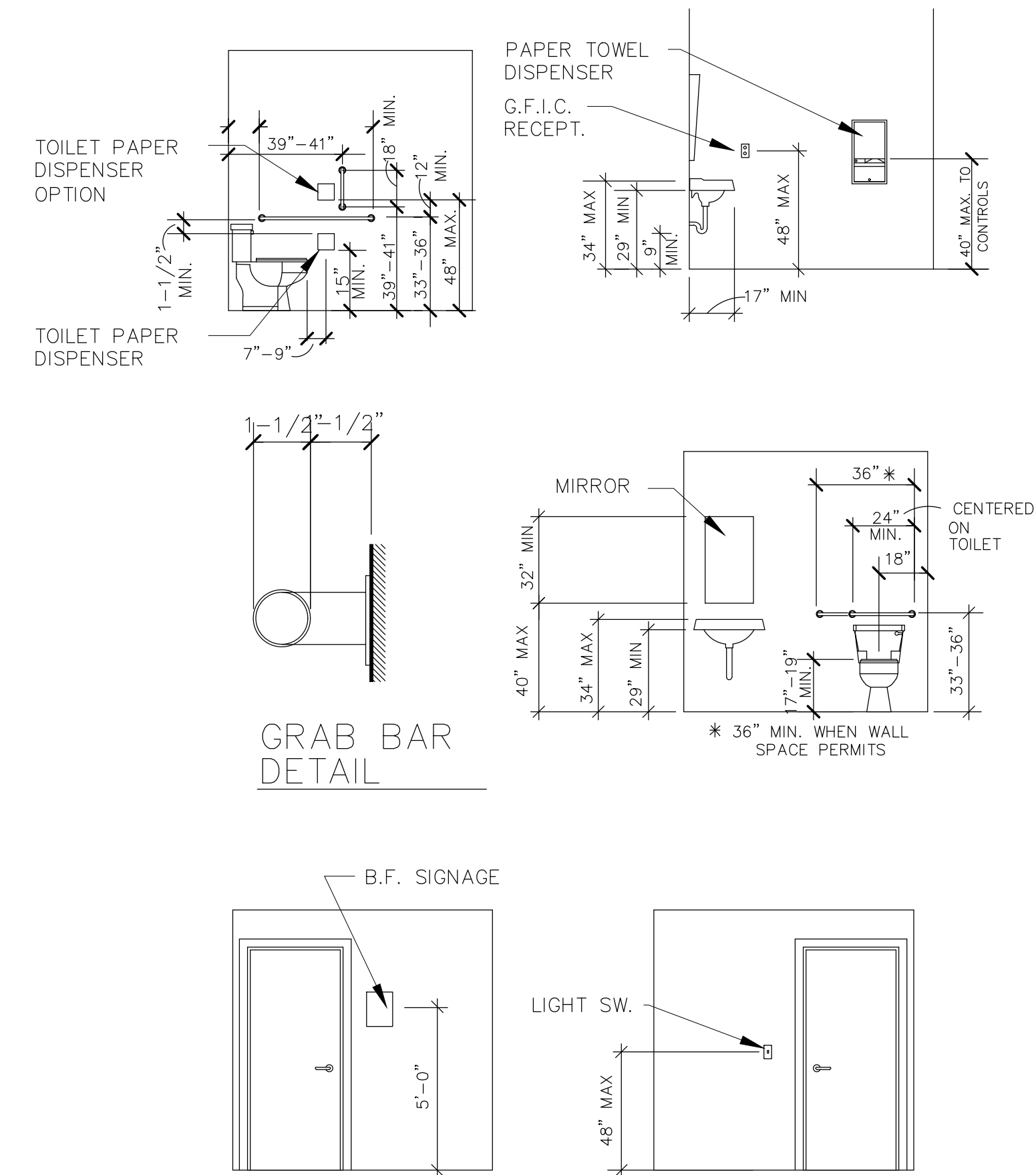
ALL FINISH MATERIALS TO BE CHOSEN BY OWNER

- V.C.T. VYNIL COMPOSITE TILES
- C CONCRETE FLOOR
- RCB RUBBER COVE BASE 4"
- DWP DRYWALL PAINTED
- MBP MASONRY BLOCK PAINTED
- ACT ACOUSTIC TILES 2'x4' (TO BE APPROVED BY OWNER)
- C.T. CERAMIC TILE

R O O M F I N I S H S C H E D U L E

ROOM No.	ROOM NAME	FLOOR MATERIAL	BASE	WALLS				CEILING		REMARKS
				NORTH	SOUTH	EAST	WEST	MAT.	HT.	
001	WAITING ROOM	C.T.	C.T.	DWP	DWP	DWP	DWP	ACT	10'-0"	
002	TOILET	C.T.	C.T.	DWP C.T.	DWP C.T.	DWP C.T.	DWP C.T.	ACT	8'-0"	PROVIDE C.T. TO 48" ABOVE FIN FLR
003	OFFICE	C.T.	C.T.	DWP	DWP	DWP	DWP	ACT	9'-0"	
004	MACHINE ROOM			MBP	MBP	MBP	MBP			
005	CAR WASH AREA			MBP	MBP	MBP	MBP			

THE SUSPENDED ACCOUSTICAL CEILING MUST BE INSTALLED IN ACCORDANCE WITH ASTM C 635 AND ASTM C 636



TYPICAL BARRIER FREE STANDARDS
SINGLE OCCUPANCY (NOT TO SCALE)

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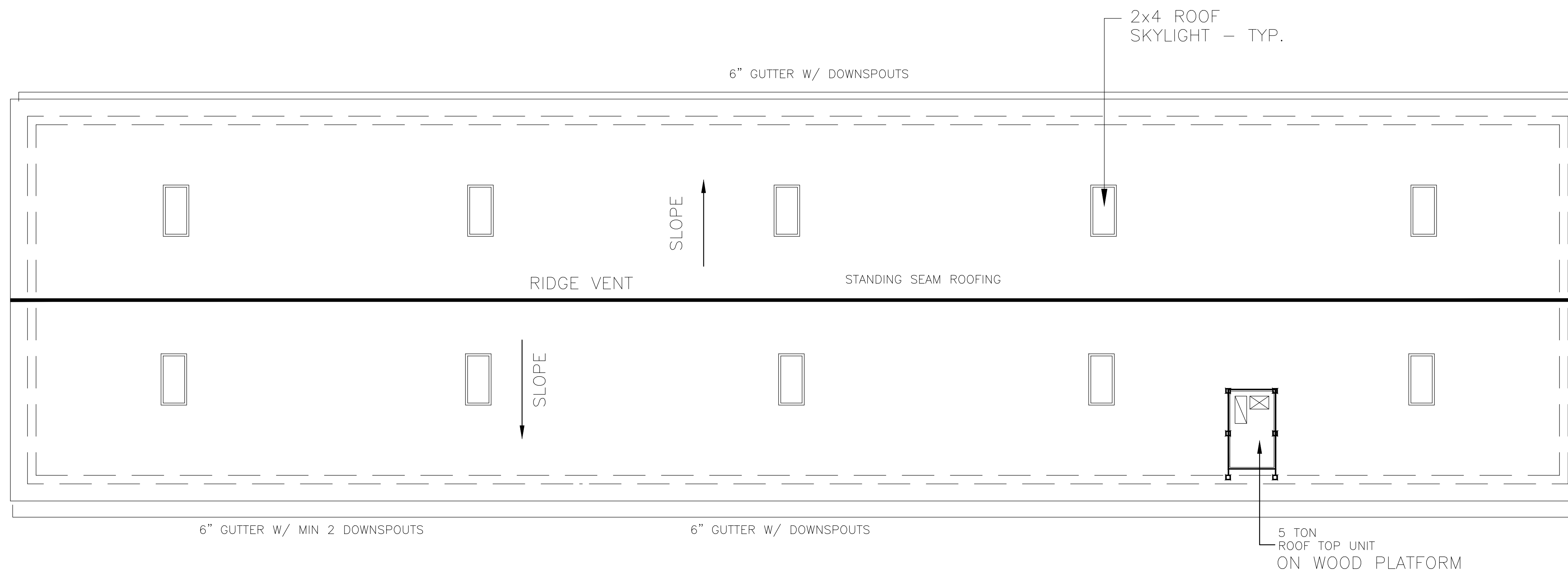
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10755 W 7 MILE ROAD
DETROIT MI
OWNER

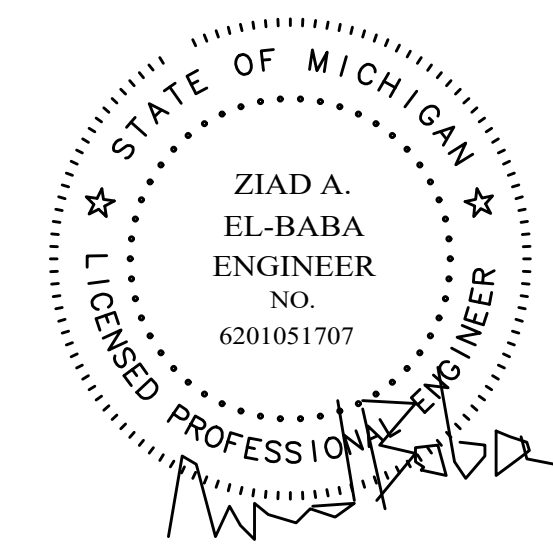
Drawing Title:
SCHEDULES

Project Number	
Scale	AS NOTED
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Drawn By	
Checked By	

Drawing No.
A-3



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



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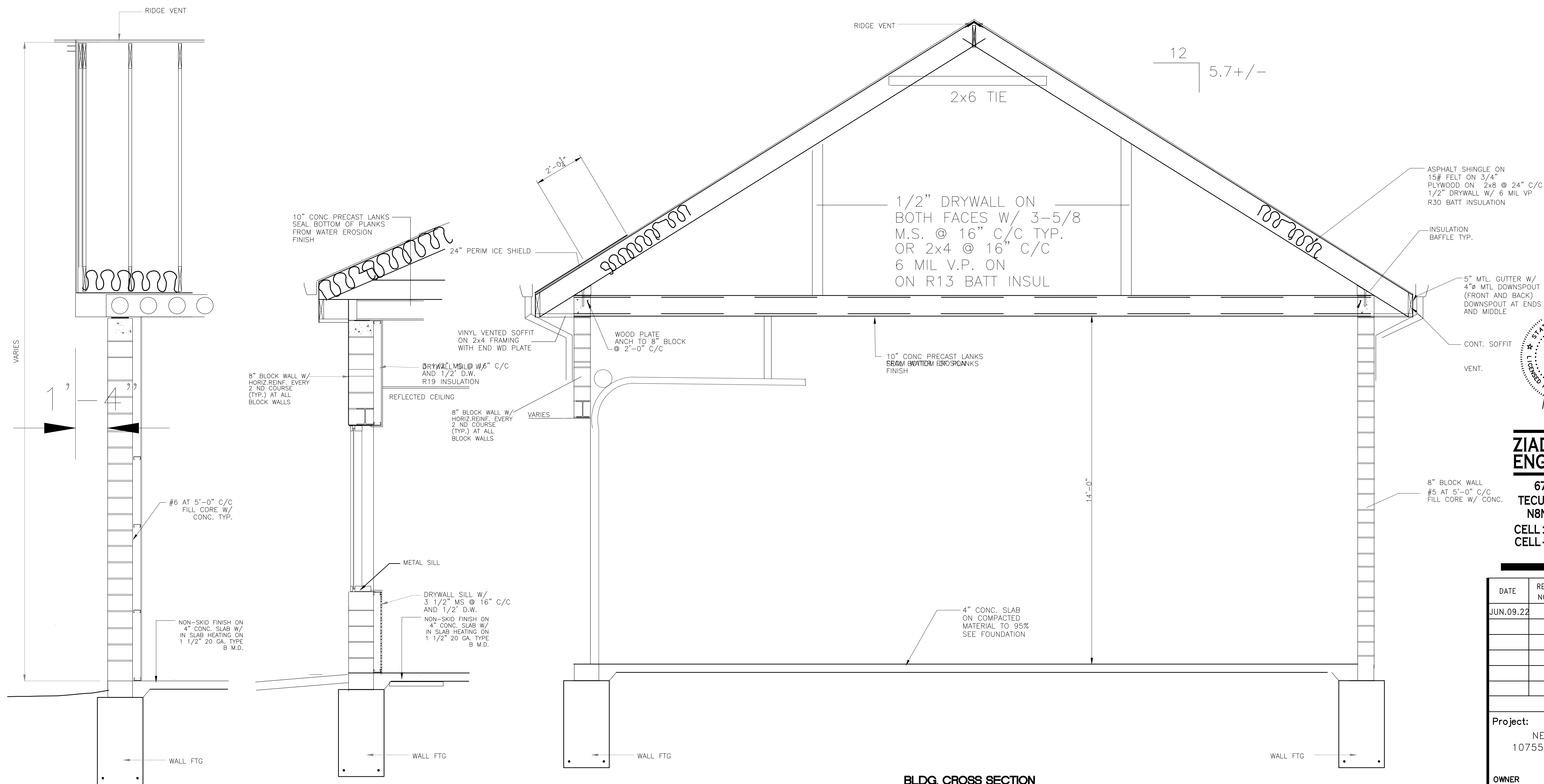
DATE	REV. NO.	ISSUED FOR

Project:
NEW CAR WASH
10755 W 7 MILE ROAD
DETROIT MI
OWNER

Drawing Title:
ROOF PLAN

Project Number	
Scale	AS NOTED
Date	
Drawn By	
Checked By	

Drawing No.
A-4

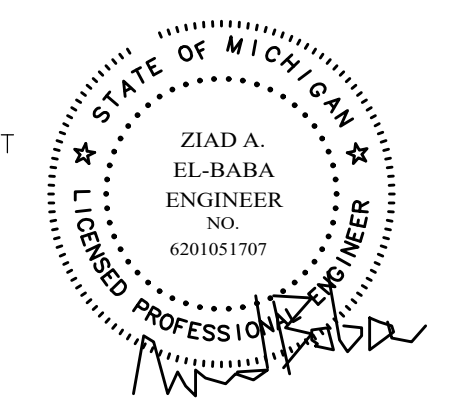


SIDE WALL SECTION
SCALE: 1/2" = 1'-0"

SIDE WALL SECTION AT WINDOW
SCALE: 1/2" = 1'-0"

BLDG. CROSS SECTION
SCALE: 1/2" = 1'-0"

ALL BLOCK WALLS TO HAVE HORIZ REINF AT 16" C/C HORIZ GALV MASONRY TRUSS



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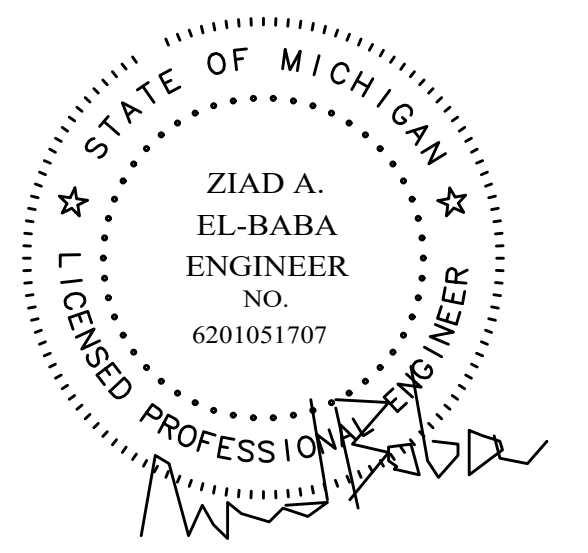
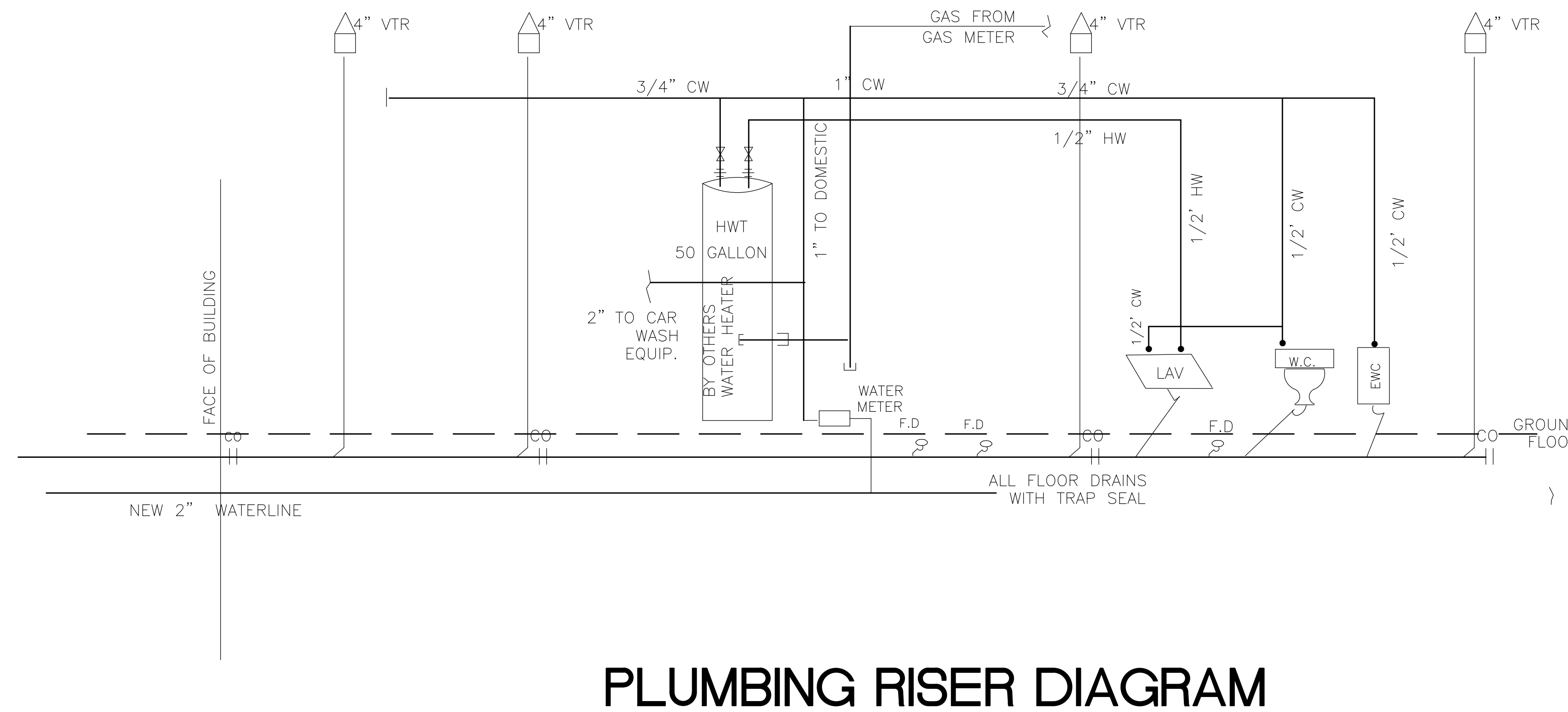
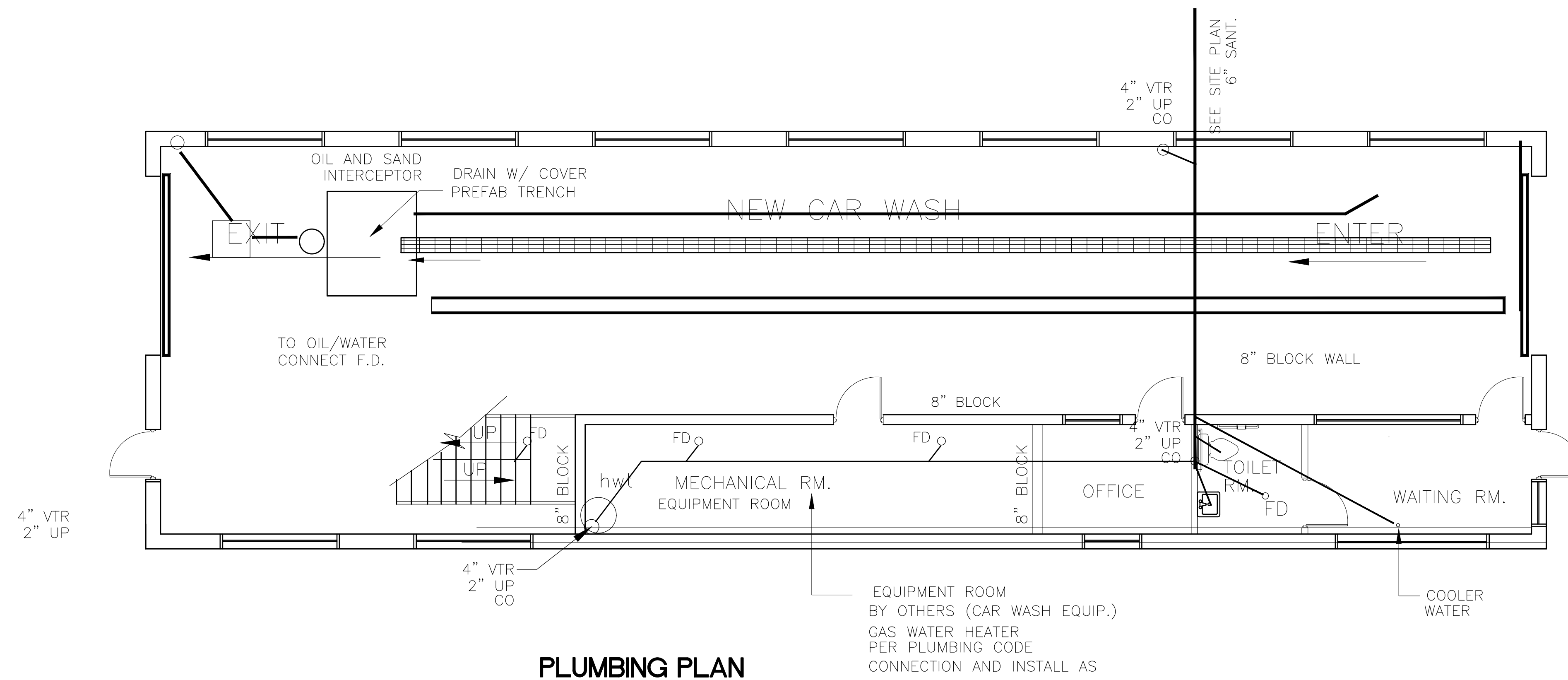
Project:
NEW CAR WASH
10755 W 7 MILE ROAD
DETROIT MI

OWNER

Drawing Title:
SECTIONS

Project Number	
Scale	AS NOTED
Date	
Drawn By	Z.E.
Checked By	Z.E.

Drawing No.
A-5



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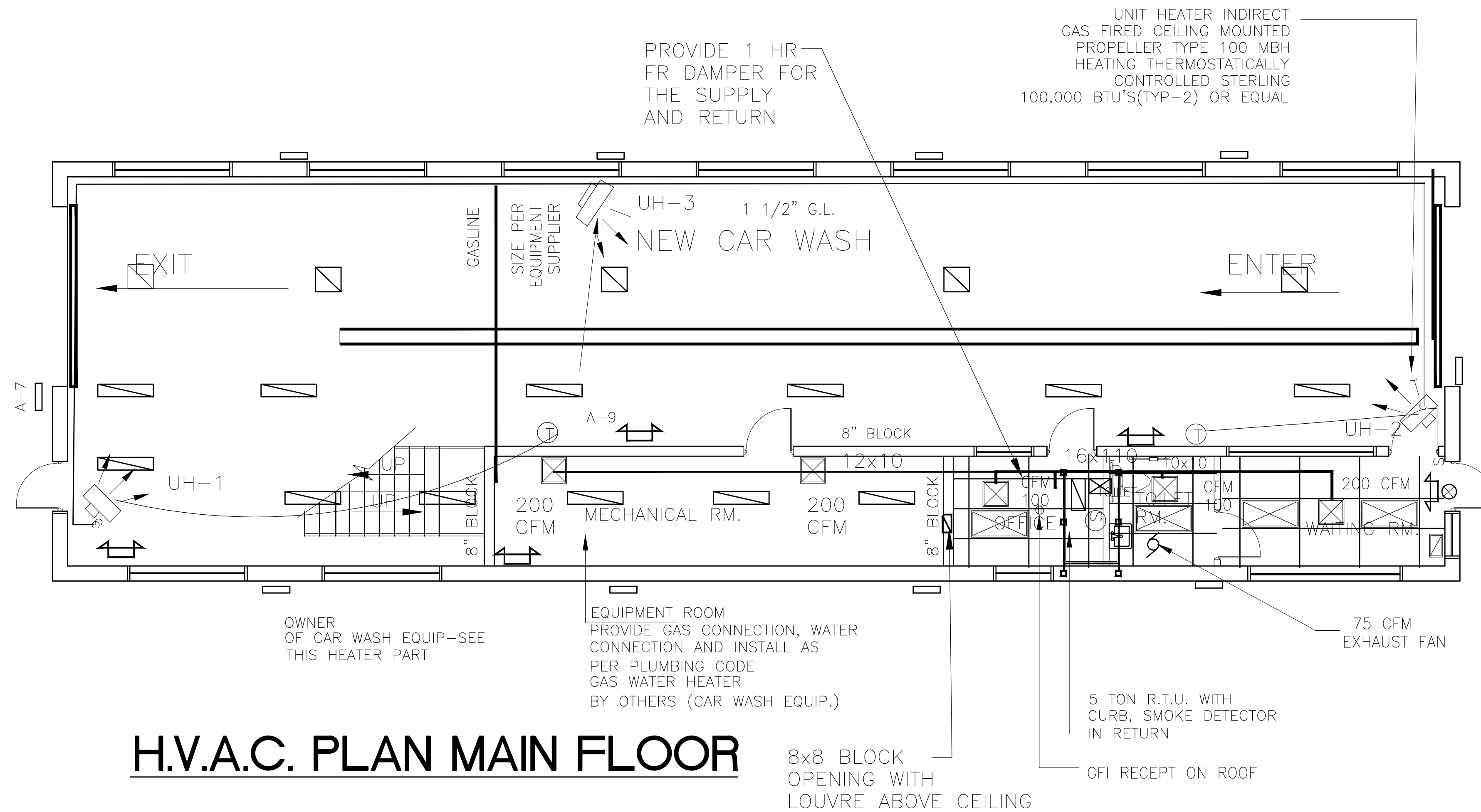
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 PLUMBING PLAN

Project Number	
Scale	AS NOTED
Date	
Drawn By	
Checked By	

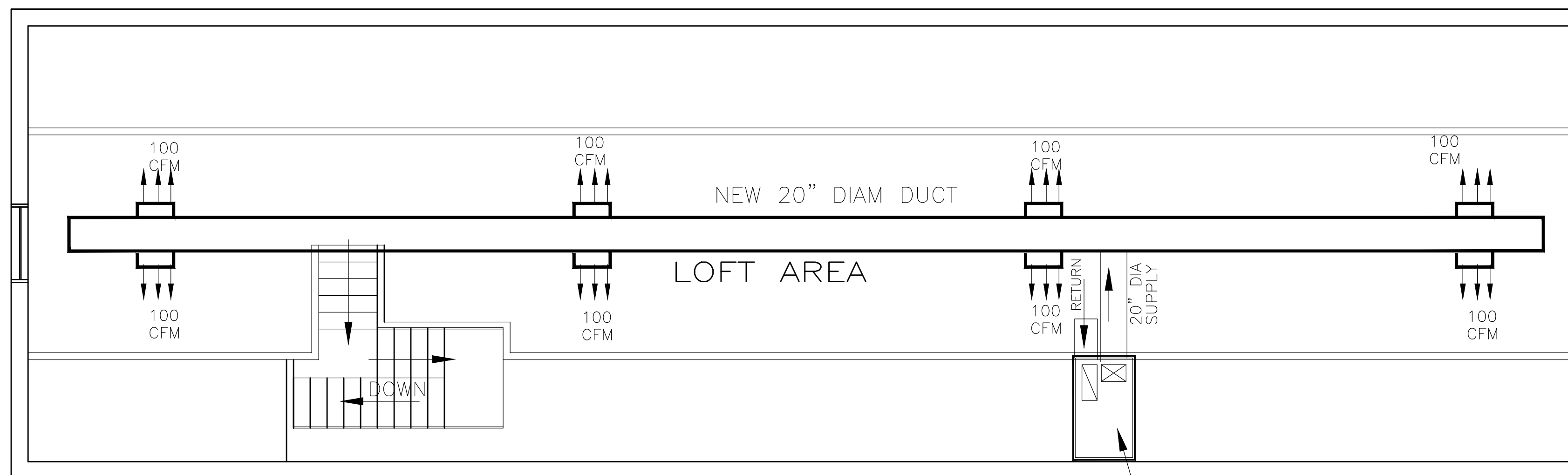
Drawing No.
 P-1

MECH NOTES:

1. THE H.V.A.C. CONTRACTOR SHALL PERFORM ALL WORK REQUIRED TO COMPLETE THE HEATING, COOLING AND VENTILATING SYSTEMS AS SPECIFIED HEREIN/AND AS SHOWN ON DRAWINGS.
2. ROOF TOP UNITS:
THE H.V.A.C. CONTRACTOR SHALL FURNISH AND INSTALL SELF-CONTACTED ELECTRIC COOLING, GAS HEATING ROOF TOP SYSTEM WITH SUPPLY AND RETURN AIR AT BOTTOM OF UNITS. A FULL ROOF MOUNTING CURB APPROVED BY THE NATIONAL ROOFING CONTRACTORS ASSOCIATION SHALL BE PROVIDED. UNITS SHALL BE A.G.CERTIFIED AS AN ELECTRICAL/GAS HEATING OUTDOOR ROOF TOP UNITS. ALL WIRING SHALL BE IN COMPLIANCE WITH N.E.C. SEE DRAWINGS FOR SIZES OF THE HEATING/COOLING UNITS.
3. ALL DUCTS SHALL BE INSULATED.
4. INTERIOR OF ALL DUCTS AND EQUIPMENT CASINGS SHALL BE THOROUGHLY BLOWN OUT AND CLEANED BEFORE FANS AND FILTERS ARE OPERATED. CHECK ALL BEARINGS FOR LUBRICATION. CHECK MOTORS AND FANS FOR ALIGNMENT AND A FOR VIBRATION-FREE OPERATION. DUCTS SHALL BE TESTED FOR LEAKAGE AND REPAIRS MADE, IF REQUIRED.
5. THE H.V.A.C. CONTRACTOR SHALL BALANCE, ADJUST AND TEST THE AIR MOVING EQUIPMENT AND AIR DISTRIBUTION AND EXHAUST SYSTEM IN ACCORDANCE WITH STATE REGULATIONS AND AUTHORITIES HAVING JURISDICTIONS.
6. THE H.V.A.C. CONTRACTOR SHALL SERVICE THE EQUIPMENT FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF ACCEPTANCE OF THE BUILDING BY THE OWNER. HE SHALL REPAIR OR REPLACE ANY MALFUNCTIONING EQUIPMENT DURING THAT PERIOD AT NO COST TO THE OWNER.
7. SUPPLY AIR DIFFUSER AND RETURN GRILLS IN OFFICES AND TOILET ROOMS SHALL BE PERFORATED TYPE, TITUS PAS & PAR. OTHERS SHALL BE TYPE 300/350
8. MECH. CONTRACTOR SHALL INSTALL ALL EQUIPMENT, FIXTURE AND PIPING ACCORDING TO MANUFACTURER'S RECOMMENDATION., LOCAL CODES AND AUTHORITIES HAVING JURISDICTION
9. ALL PLUMBING PIPING C.W., H.W. SHALL BE TYPE L ABOVE GROUND AND TYPE K BELOW GROUND. HARD COPPER WITH 1" INSULATION. ALL SANT. AND STORM PIPING SHALL BE CAST IRON . GAS PIPING SHALL BE BLACK STEEL.
10. WATER HEATER SHALL BE LOCKINVAN RJJ020J E 19 GALLONS WALL MOUNTED ABOVE CEILING ELECTRICAL 208 VOLTS 3500 WATTS 3ø
11. MECHANICAL CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION BEFORE COMMENCING ANY WORK.
12. GAS UNIT HEATER CEILING SUSPENDED , PROPELLER FAN, 75 MBH GAS HEATING W/ AUTOMATIC SAFETY CONTROL REMOTE THERMOSTAT RUNNING BOTH UNIT HEATERS STERLING QVF-75 OR EQUAL



H.V.A.C. PLAN MAIN FLOOR



H.V.A.C. PLAN MEZZANINE

ROOF TOP UNIT SPECIFICATIONS

Carrier® WeatherMaster® - 5 Ton Commercial Packaged Rooftop Gas Heat & Electric Cool Unit (208/230-3-60)
 Specifications
 Weight 600 Pounds (lbs)
 Length 46.75 Inches (In)
 Width 74.375 Inches (In)
 Height 41.375 Inches (In)
 Country of Origin MEX
 AFUE 80%
 Air Flow Convertible
 Blower Motor RPM 1035-1466
 Blower Motor Type ECM
 Brand Carrier
 BTU Input 50000
 BTU Output 41000
 CFM 2500
 Color Gray
 Compressor Scroll
 Condenser Motor HP1/3 HP
 Cooling Capacity 58500
 Cooling Rated Capacity Btu/h 60000
 Cycle/Hertz 60
 Drain Connection Size 3/4"
 Drive Type Belt
 EER 12.3
 Energy Star Rated Yes

ETL Listed No
 Filter Size (4) 16" x 16" x 2"
 Heat Exchanger Type Aluminized or Stainless Steel
 Heating Capacity 56000, 41000
 IEER 0
 Ignition Type Direct Spark
 ISO Code MX
 Nominal EER 12
 Number of Fan Blades 1
 Phase Three
 Product Family 48HC
 Refrigerant R-410a
 SEER 16
 Sound Level (dBA) 77
 Stage Two
 Tier WeatherMaster
 Tonnage 5
 UL Listed Yes
 UL Recognized Yes
 Voltage 575 VAC
 Warranty Offered Yes
 Watts 220

BALANCE REPORT - PER TABLE 403.3.1.1.

TYP. UNIT NEW 5 TON RTU MIN 2000 CFM
 AT 20% FRESH AIR = 2000x.2 = 400 CFM
 LOBBY = 30/1000 = 30x113/1000 = 4 PEOPLE
 OFFICE = 5/1000 5 CFM, .06CFM AREA 73x5/1000 = 1
 LOFT STORAGE = 1222 SQ FT AT .12 CFM

SALES AREA

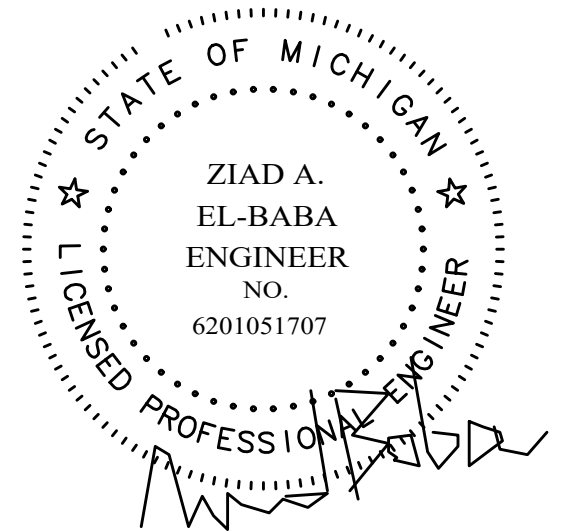
$$V_{pz} = R_p \times P_z + R_a \times A_z =$$

R_p = CFM/PERSONS
 P_z = PEOPLE / ZONE POPULATION
 R_a = .06 CFM/FT² OR .75 REPAIR AREA OUTDOOR AIR RATE
 A_z = NET ZONE FLOOR AREA

$$V_{pz} = 5 \times 1 + .06 \times 71 + 5 \times 4 + 113 \times .06 + 1222 \times .12 = 212 \text{ CFM} < 400 \text{ CFM}$$

AIR BALANCE - UNIT 5 TON
 200X3 = 600
 100x2 = 200
 8x100 = 800 CFM

$$1600 \text{ CFM} = 1600 \text{ CFM UNIT}$$



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DATE	REV. NO.	ISSUED FOR
JUN.09.22		PERMIT

Project:
 NEW CAR WASH
 10755 W 7 MILE ROAD
 DETROIT MI
 OWNER

Drawing Title:
 ELEVATIONS

Project Number	
Scale	AS NOTED
Date	
Drawn By	
Checked By	

Drawing No.
 M-1

SHEETING, SHORING, AND BRACING:

1. TEMPORARY SHEETING, SHORING, GUYING AND TIEDOWNS OF THE WORK AND STRUCTURE DURING ERECTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER ASSUME NO RESPONSABILITY FOR THE ABSENCE, PRESENCE OR ADEQUACY OF ANY TEMPORARY BRACING. ALL EXISTING STRUCTURE THAT MAY BE AFFECTED BY THE NEW CONSTRUCTION SHALL BE BRACED AND PROTECTED AS REQUIRED.

2. THE STRUCTURAL DRAWINGS ARE THE PLACEMENT AND SIZE OF STRUCTURAL COMPONENTS ONLY. COMPLIANCE WITH O.S.H.A., AND SAFETY CODE REQUIREMENT ARE THE RESPONSIBILITY OF THE CONTRACTOR.

GENERAL (ALL TRADES)

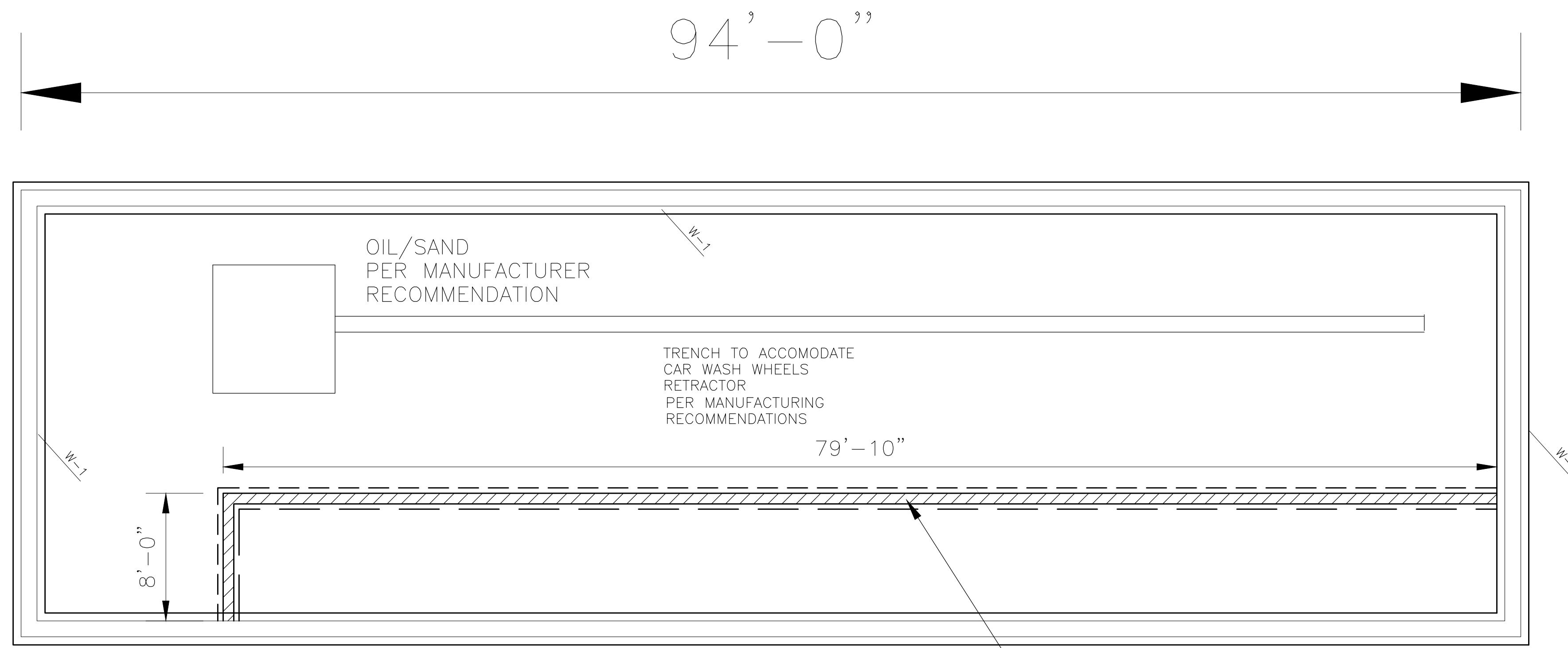
1. THE BOCA CODE AND UBC 95 CODE 2003 MICHIGAN BUILDING CODE, LATEST EDITIONS, SHALL BE THE BASIS FOR ALL DESIGN AND CONSTRUCTION FOR THIS PROJECT.
2. CONTRACTOR TO FIELD CHECK ALL REQUIRED DIMENSIONS AND REPORT ALL DISCREPANCIES TO ENGINEER AND ALL RELEVANT TRADES. CONTRACTOR TO ENSURE ALL OTHERS TRADES ARE IN PLACE BEFORE COMMENCING POURING CONCRETE, FABRICATING STEEL ETC..
3. ALL APPLICABLE PERMITS TO BE ACQUIRED AND PAID BY GENERAL CONTRACTOR
4. LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURE (EXISTING FOOTING, WALL FTG., STRUCTURAL STEEL, BLOCK WALL ETC..) ARE APPROXIMATE. GENERAL CONTRACTOR TO TAKE ALL PRECAUTIONS WHEN EXCAVATING AND INSTALLING NEW STRUCTURE.

CONCRETE

1. DESIGN, DETAILING AND CONSTRUCTION WORK TO CONFIRM TO 318-91, ACI 315, ACI 315R, AND ACI 301 (LATEST REVISIONS).
2. MIN. SOIL PRESSURE IS 2,500 FOR CONTINUOUS AND SPREAD FOOTING
3. MIN. CONCRETE STRENGTH IS 3,000 PSI TYPE 10 CONCRETE. WITH 3" SLUMP. NO WATER OR CHLORIDE FREE SUPERPLASTICISER TO BE ADDED TO CONCRETE ON SITE WITHOUT THE APPROVAL OF THE ENGINEER. 5 TO 7% AIR ENTRAINED.
4. ALL CONCRETE FILL AND MUD MATS TO HAVE MIN. CONCRETE STRENGTH OF 3,000 PSI TYPE 10.
5. ALL REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A432 AND A305, AND TO BE OF HARD NEW BILLET STEEL WITH FY = 58 KSI AND MINIMUM YIELD STRENGTH OF 60,000 PSI. LAP REINFORCEMENT TO BE 36 BAR DIAMETER. PROVIDE CORNER BARS AT EXTERIOR CORNERS SPACING TO MATCH HORIZONTAL REINFORCING. U.N.O. ON DRAWINGS. CONC. COVER : 3" AGAINST EARTH AND FOR SLAB 1 1/2" FROM TOP.
6. ALL CONCRETE FLOOR TO BE MECHANICALLY VIBRATE. FIN. CONCRETE TO RECEIVE A 1.2 LB./S.F. TRAPROCK/CEMENT SHAKE FINISH AND MEADOWS CUREHARD CURING/HARDWING APPLICATION.
7. ALL COLUMN ANCHOR BOLTS TO BE CAST IN CONCRETE U.N.O. ON DRAWINGS. CRUSH STONE OR SAND SUBBASE OR/AND FILL TO BE COMPACTED TO 100% MODIFIED PROCTOR DENSITY.
8. ALL EXPOSED CONCRETE EDGES TO BE 3/4" CHAMFERED.

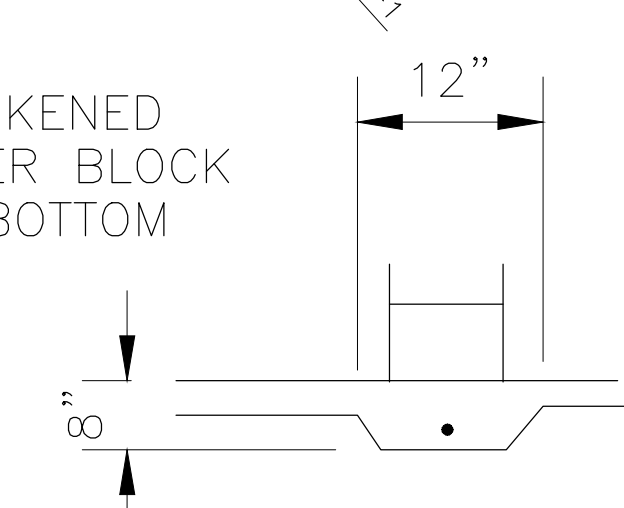
STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL SHAPES, BARS AND PLATES SHALL CONFORM TO ASTM A36, STRUCTURAL STEEL PIPE ASTM A53, STRUCTURAL STEEL TUBE : ASTM A500
2. ALL SHOP AND FIELD CONNECTIONS TO BE 3/4" A325 BOLTS, WITH THREADS EXCLUDED FROM SHEAR PLANE. UNLESS WELD IS CALLED FOR ON DRAWINGS. MIN. MINIMUM THREE BOLTS PER CONNECTION.
3. ALL WELDING ELECTRODES TO BE E70-XX
4. PRIOR TO PAINTING OF STRUCTURAL STEEL, CLEAN MEMBERS FROM ALL LOOSE MILL AND FOREIGN OBJECTS BY WIRE BRUSHING. ALL STRUCTURAL STEEL TO RECEIVE ONE 99 RED OR GRAY METAL PRIMER. DO NOT PAINT SURFACES TO BE CONTACT WITH CONCRETE
5. AFTER ERECTION OF STRUCTURAL STEEL TOUGH UP ALL WELDS, BOLTS AND NUTS, AND ALL DAMAGED PAINTED AREAS WITH SAME PRIMER.
6. THIS GENERAL CONTRACTOR TO PROVIDE TEMPORARILY SHORING AND BRACING FOR ALL EXISTING AND NEW STRUCTURE AS REQUIRED FOR ALIGNMENT, COLUMN AND BLOCK WALL REMOVALS, WIND, DEAD LOAD ETC..
7. PROVIDE MIN. 1" GROUT UNDER COLUMN BASE PLATE AND WHERE REQUIRED U.N.O. ON DRAWINGS. ON 45° FROM BASE PLATE. GROUT TO BE NON-SHRINK, GROUT TO COMPLY WITH ASTM C-827, TYPE D, CE-RED -C621, WITH COMPRESSIVE STRENGTH OF 2500 PSI IN ONE DAY AND 7000 PSI IN 28 DAYS BELOW COLUMN BASE PLATES.
8. THE DESIGN OF ALL STRUCTURAL STEEL CONNECTIONS SHALL BE THE RESPONSIBILITY OF THE STRUCTURAL STEEL FABRICATOR. APPROVAL OF SHOP DRAWINGS BY THE ENGINEER SHALL NOT CONSTITUTE APPROVAL OF THE ADEQUANCY OR ERECTION SAFETY OF ANY STRUCTURAL STEEL CONNECTIONS.
9. TEMPORARILY ERECTION SEATS SHALL BE PROVIDED AS RECOMMENDED ON PAGE 3-59 OF THE A.I.S.C. PUBLICATION "ENGINEERING FOR STEEL CONSTRUCTION"



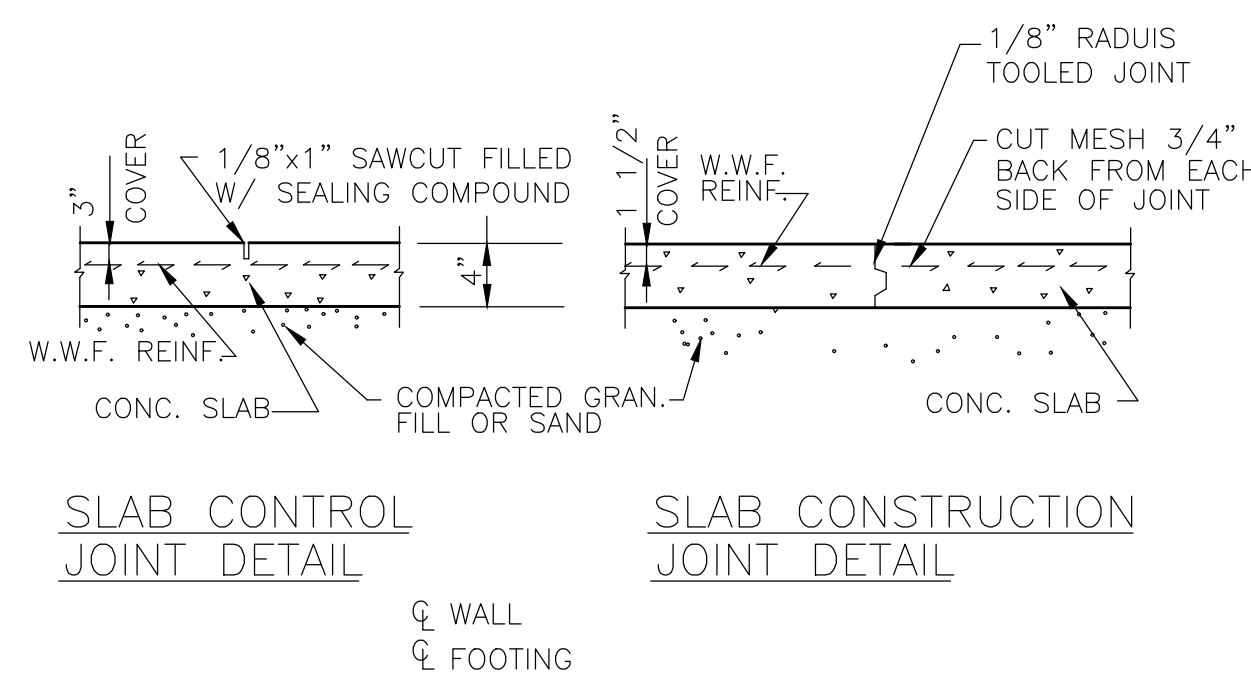
FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

12x8" THICKENED SLAB UNDER BLOCK #5 CONT BOTTOM



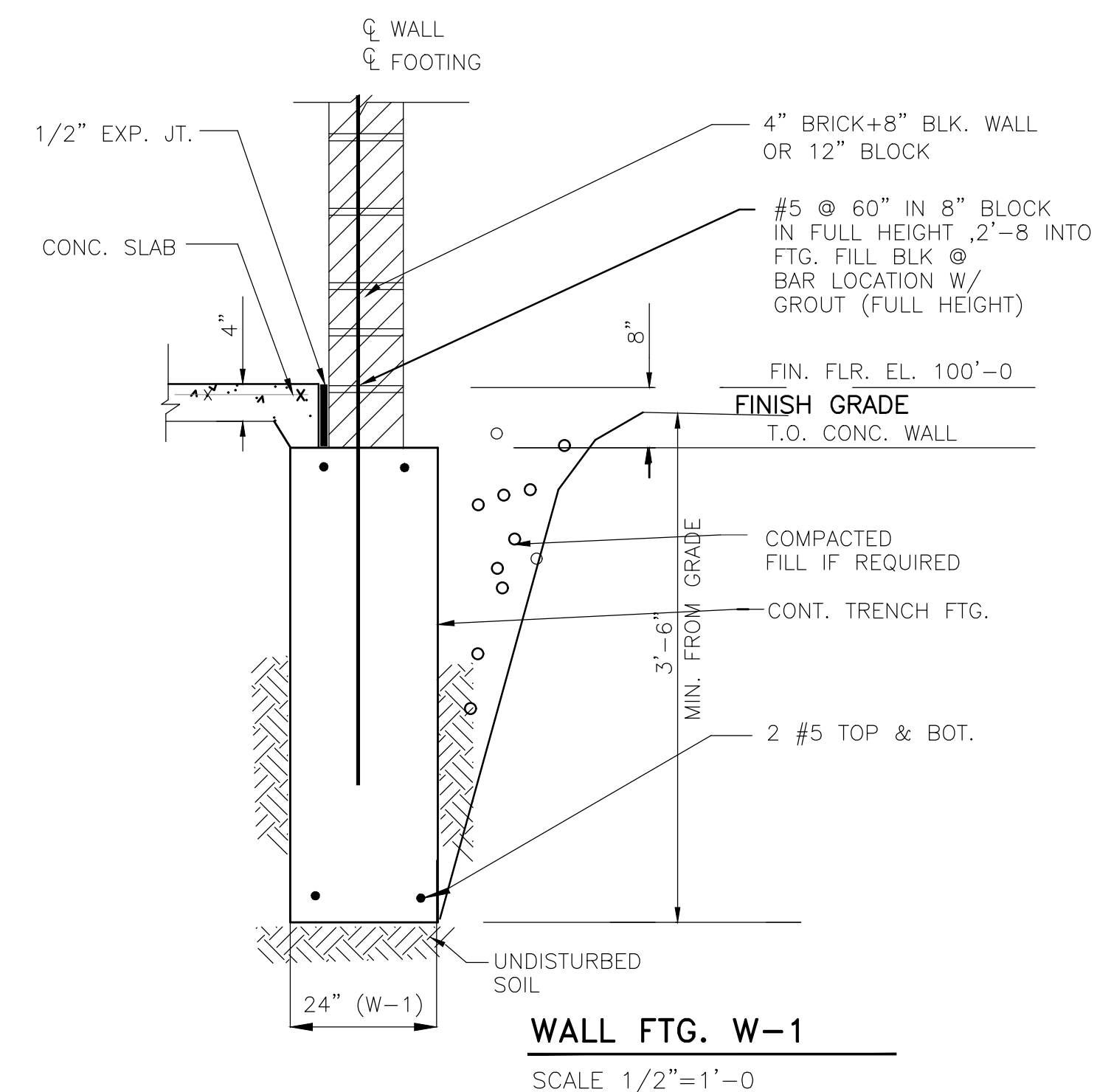
MASONRY

1. ALL MASONRY WORK TO BE IN ACCORDANCE WITH LATEST A.C.I. AND N.C.M.A. SPECIFICATIONS.
2. PROVIDE HORIZONTAL HOT DIPPED GALVANIZED DUR-O-WALL REINFORCING EVERY OTHER COURSE. PROVIDE MIN. #5 @ 5'-0" VERTICAL REINFORCING IN BLOCK WALL FULL HEIGHT. EXTEND BARS MIN. 1'-6" IN FOUNDATIONS. FILL COURSE AT BAR CONCRETE (FULL HEIGHT) U.N.O. ON DRAWINGS. MINIMUM STRENGTH OF GROUT TO BE
3. PRECAUTION SHALL BE TAKEN TO PROTECT MASONRY AND MORTAR FROM COLD AND HOT WEATHER.
4. COORDINATE WITH MECHANICAL AND ELECTRICAL AND OTHER TRADES FOR ALL MASONRY OPENING NOT SHOWN ON DRAWINGS. SIZES OF OPENING SHOWN ON DRAWINGS TO BE VERIFIED WITH RELEVANT TRADE.

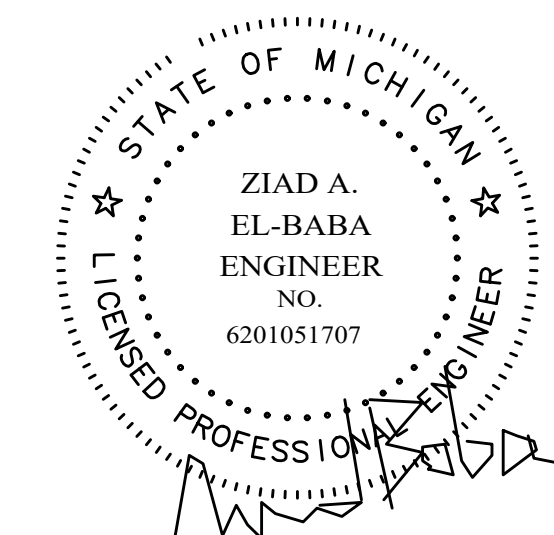


SLAB CONTROL JOINT DETAIL

SLAB CONSTRUCTION JOINT DETAIL



WALL FTG. W-1
SCALE 1/2"=1'-0"



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



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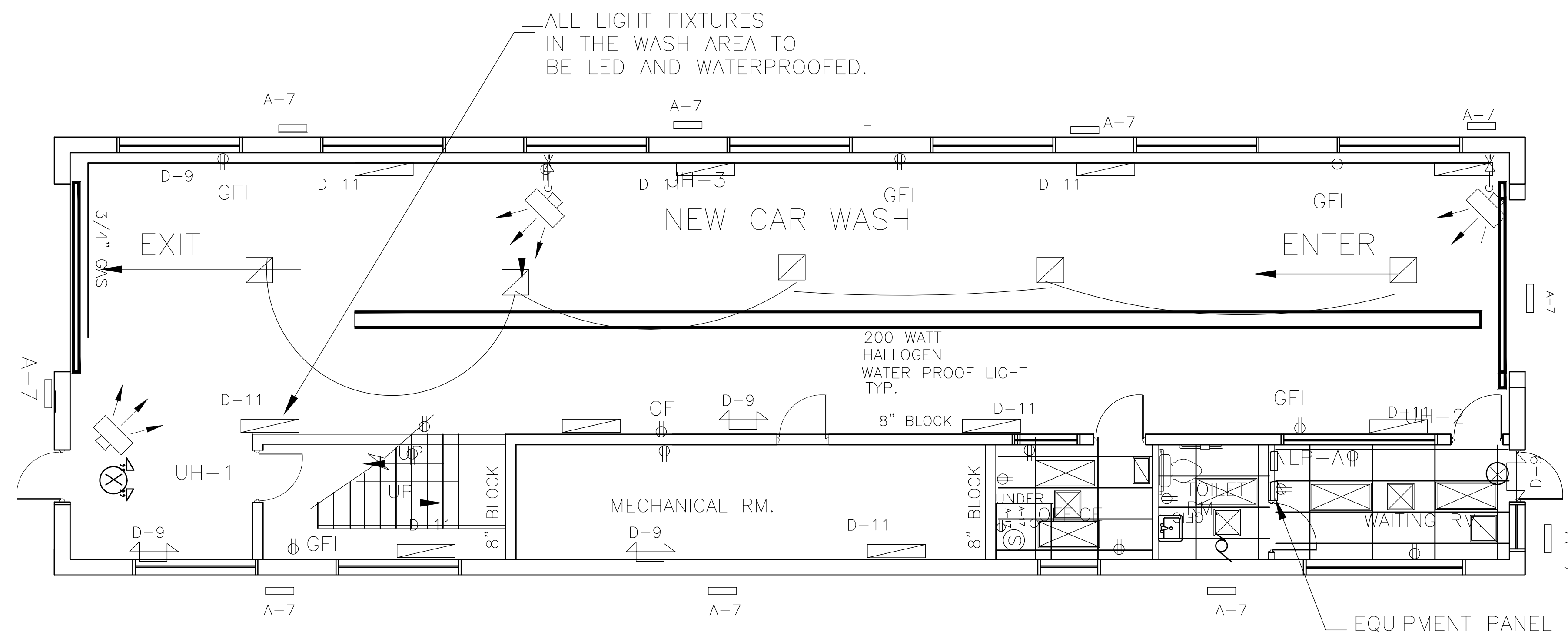
Project:
NEW CAR WASH
10755 W 7 MILE ROAD
DETROIT MI
OWNER

Drawing Title:
FOUNDATION PLAN

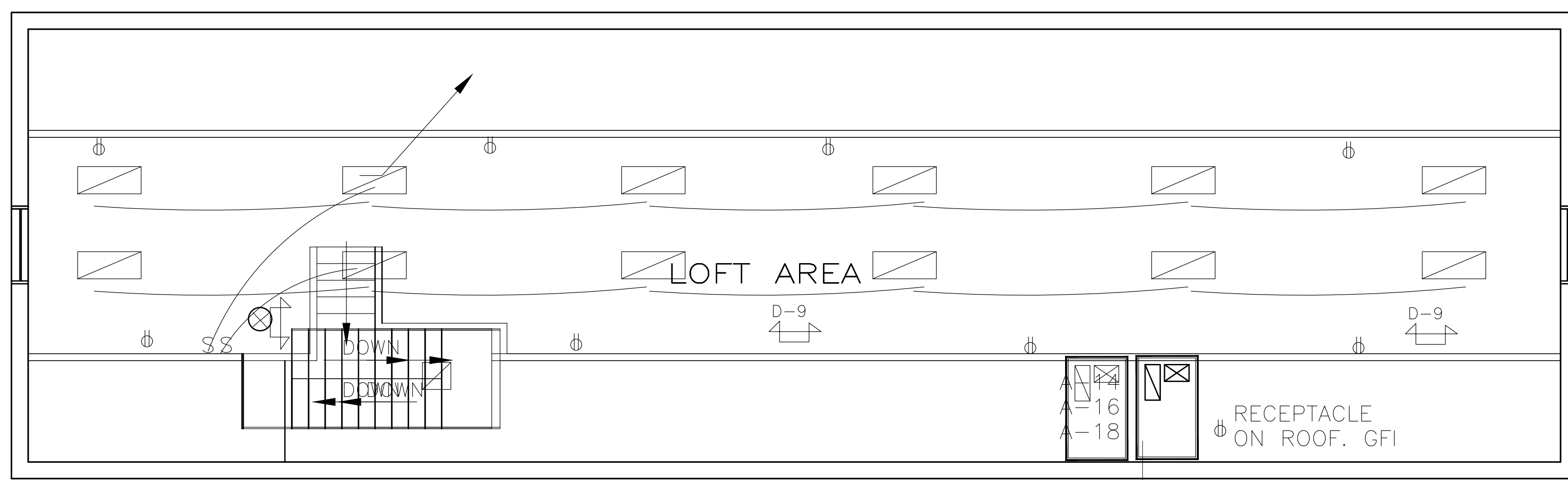
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Date	
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Drawing No.
S-1

-  2'x4' LAY-IN FLUORESCENT FIXTURE WITH 3-F40 T12 LAMPS WITH ACRYLIC LENS. LITHONIA CAT.# 2CT-340-A12 OR APPROVED EQUAL
-  EMERGENCY LIGHTING UNIT WITH SEALED BATTERY MIN 120 MIN BACKUP INTENSITY TEST SWITCH AND READY LIGHT 120VAC OPERATION LITHONIA CAT# ELU-2H OR APPROVED EQUAL
-  EXIT LIGHT STENCIL FACE 6" HIGH RED LETTERS SEALED BATTERY, MIN 120 MIN INTENSITY LITHONIA CAT# ESIR-ELC OR APPROVED EQUAL
-  EXIT AND EMERGENCY LIGHTS COMBINED



ELECTRICAL PLAN — MAIN FLOOR
SCALE: 3/16" = 1'-0"



ELECTRICAL PLAN — MEZZANINE
SCALE: 3/16" = 1'-0"



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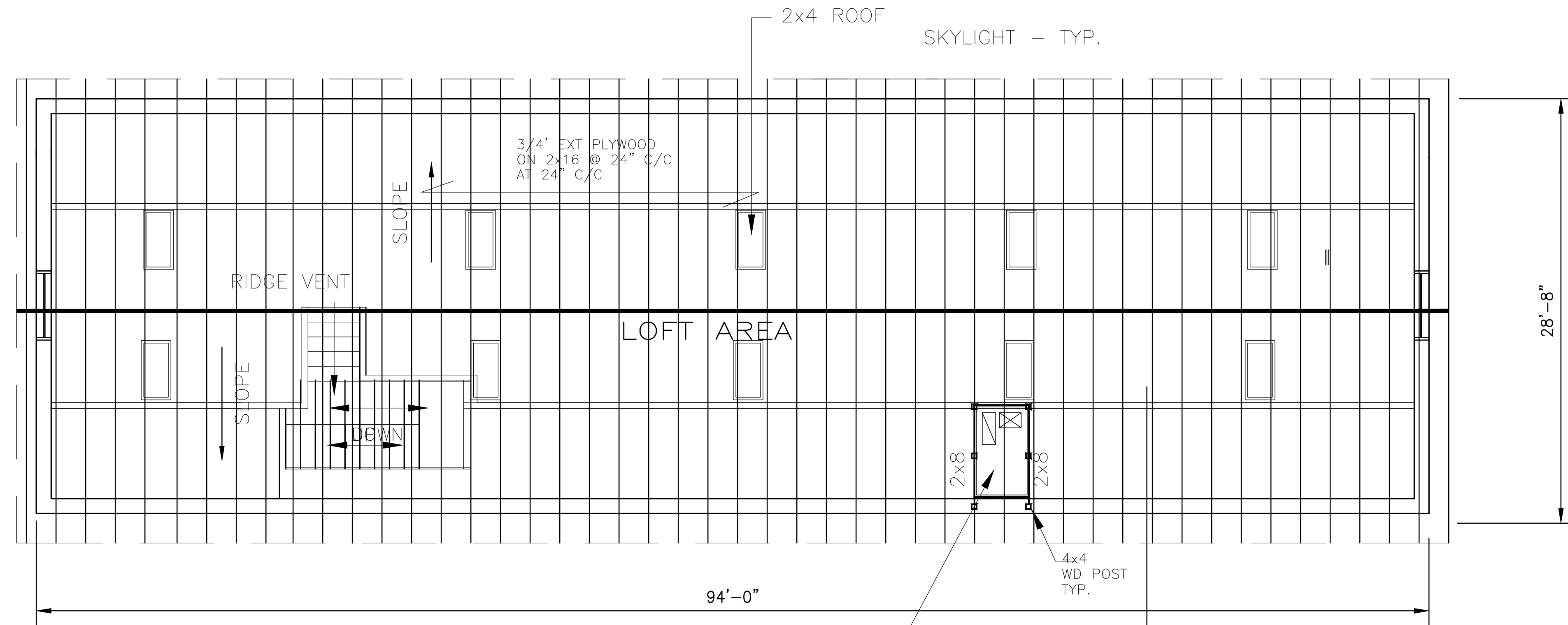
Drawing Title:
ELECTRICAL PLAN

Project Number	
Scale	AS NOTED
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Drawn By	
Checked By	

Drawing No.
E-1

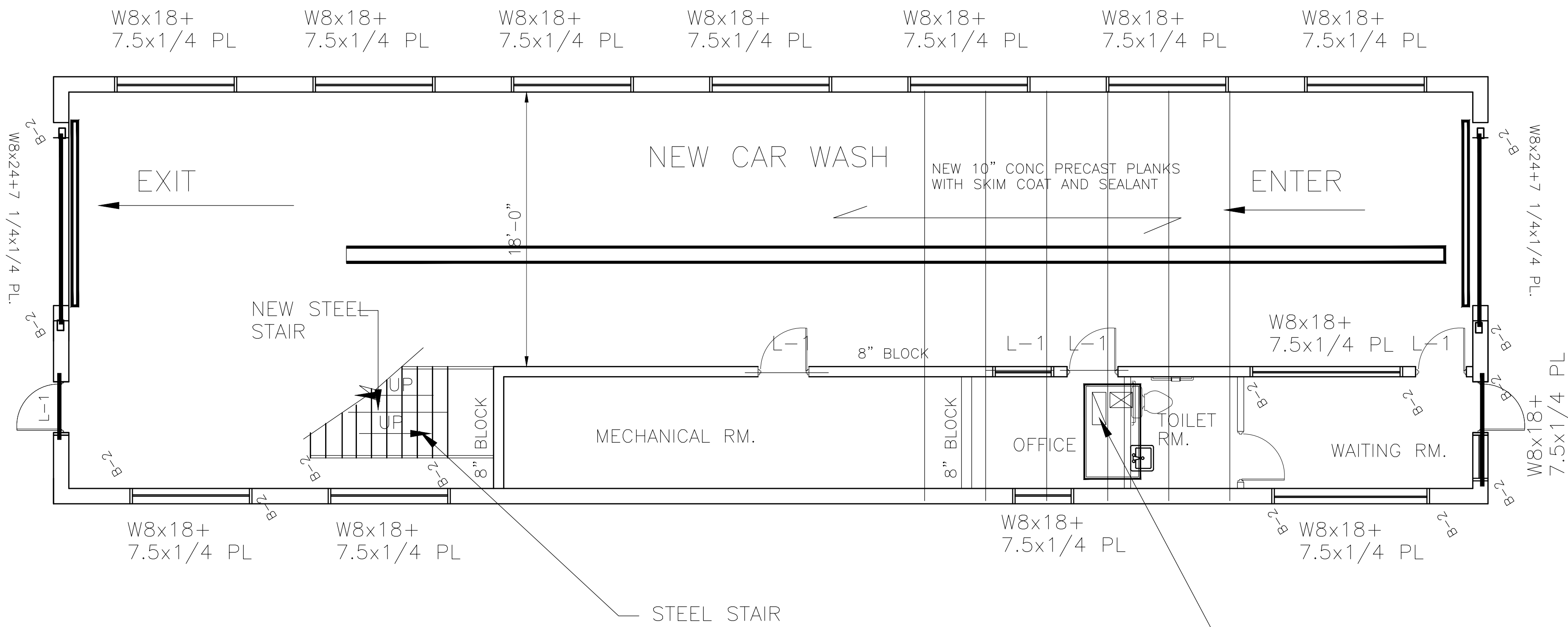
- L1 2-L 3 1/2x3 1/2x1/4
- L2 W8x18+7.5x1/4 PL+ TWO BERING B-1

8"x6"x3/8" B-2 W/
2- 1/2"x6" LG+
2" HK. FILL TOP
COURSE W/ MORTAR
UNDER B.P. B-2
BY S.S.C. SUPPLIER
SET IN BY G.C.

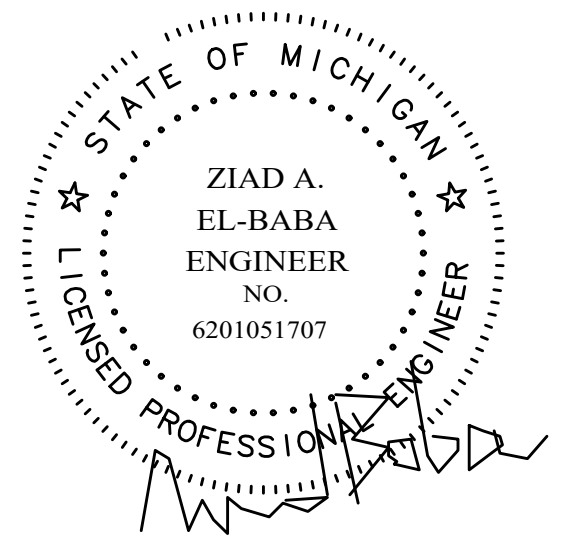


ROOF FRAMING PLAN
SCALE: 3/16" = 1'-0"

ROOF LOAD	
1. - D.L.	
SHINGLES	6.0 PSF
INSUL.	2.0 PSF
3/4" WD DECK	2.0 PSF
WOOD	5.0 PSF
CEILING	2.0 PSF
M. & E.	4.0 PSF
	<hr/> 21.0 PSF
2. - L.L. (SNOW)	20 PSF
TOTAL LOAD (PLUS R.T.U.)	41 PSF
3. - WIN LOAD 115 MPH., 27 PSF	
FLOOR LOAD	
1. - D.L.	
10" CONC PLANKS	72 PSF
M. & E.	6.0 PSF
	<hr/> 78.0 PSF
5. - L.L.	100 PSF



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



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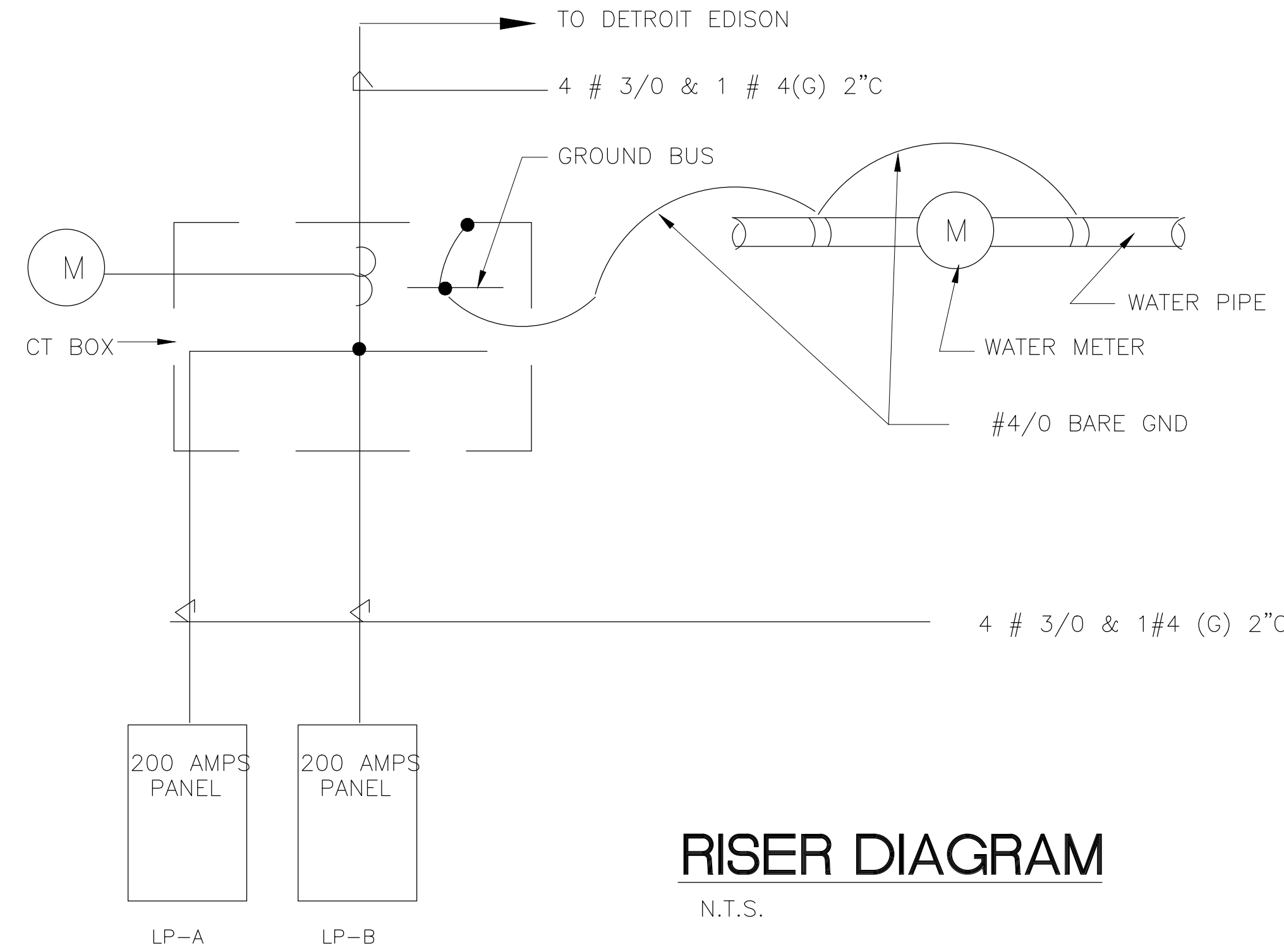
Drawing Title:
FRAMING PLANS

Project Number	
Scale	AS NOTED
Date	
Drawn By	
Checked By	

Drawing No.
S-2

ELECTRICAL NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL PERFORM ALL WORK REQUIRED TO COMPLETE THE ELECTRICAL SYSTEM AS SPECIFIED HEREIN AND/OR SHOWN ON DRAWINGS.
2. ALL CONDUIT, FITTINGS, WIRING DEVICES, SUPPORTS, HANGERS AND ACCESSORIES REQUIRED FOR THE FEEDER AND BRANCH WIRING INDICATED ON THE DRAWINGS, SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR IN NEAT AND WORKMAN LIKE MANNER.
3. ALL WIRING SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, LATEST EDITION AND PER LOCAL ORDINANCES AND REGULATIONS THAT TAKE PRECEDENCE.
4. INCOMING POWER IS 208/230 3Ø AND ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION WITH THE UTILITY COMPANY.
5. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO APPLY FOR, OBTAIN, AND PAY FOR ALL INSPECTION AND PERMITS REQUIRED BY THE CITY.
6. EVERY BATHROOM RECEPTACLE HAS TO BE PROTECTED BY SELF-CONTAINED GROUND FAULT SENSOR.
7. MINIMUM LIFE SIZE FOR BRANCH CIRCUIT LOADING SHALL CONFORM TO ALLOWABLE VOLTAGE DROPS OF THE N.E.C. AND THE GROUNDING SYSTEM WITH ARTICLE 250 OF THE N.E.C. LATEST EDITION
8. THE APPROVAL OF THE LOCAL AUTHORITY HAS TO BE OBTAINED IF THERE WILL BE ANY REVISION TO THE ORIGINAL APPROVED DRAWINGS.
9. THE ELECTRICAL CONTRACTOR SHALL FURNISH TO THE OWNER, A WRITTEN GUARANTEE COVERING MATERIAL AND WORKMANSHIP FOR ONE (1) YEAR FROM THE DATE OF ACCEPTANCE OF THE BUILDING BY OTHER.
10. ALL HOMERUNS SHALL BE 2#12 1/2" CONDUIT U.O.N. WIRING SHALL BE TYPE THHN
11. ALL CIRCUITS FOR POWER RECEPTACLES AND LIGHTINGS SHALL BE 2#12 AND IN 1/2" CONDUIT UNLESS OTHERWISE NOTED ON THE DRAWINGS.
12. NEW ELECTRICAL PANEL(S) SHALL BE CIRCUIT BREAKER TYPE, DEAD FRONT, EQUIPPED WITH BOLTED CIRCUIT BREAKERS RATED 10,000 AIC (SYM) AND COPPER BUS. PANEL SHALL BE COMPLETE WITH FULL LENGTH EQUIPMENT GROUND BUS, NEUTRAL BUS, LOCKING DOOR, CIRCUIT DIRECTORY, AND SHALL BE SUITABLE FOR SURFACE MOUNTED OR AS SPECIFIED ON THE DRAWINGS. RATING AND NUMBER OF BRANCH DEVICES FOR THE PANEL SHALL BE AS INDICATED ON THE DRAWINGS. PANEL SHALL BE AS MANUFACTURED BY SQUARE "D", GENERAL ELECTRIC ITE OR WESTINGHOUSE.



- OUTDOOR LIGHT "HA" TYPE
- 4'-0" 4 BULBS FLUORESCENT LAMP
- 4'-0" IND. FLURORESCENT LAMP (2)
- WALL MTD INCANDESCENT LAMP
- SINGLE POLE SWITCH
- SINGLE POLE THREE - WAY SWITCH
- TELEPHONE OUTLET
- 240V FUSIBLE DISCOUNT SWITCH
- LIGHTING PANEL
- THERMOSTAT
- MANUAL STARTER

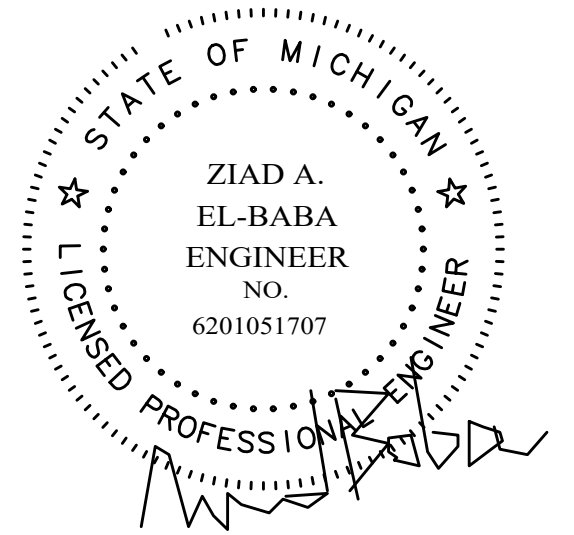
"FA" INDUSTRIAL 4 FT. LONG WITH TWO (2) LAMPS AND 120V. ENERGY SAVING BALLAST FOR HIGH OUTPUT RAPID START LAMPS. LITHONIA CAT # EJ 248HO OR APPROVED EQUAL

"IA" 150 W TYPE A21 WALL MTD. INCANDESCENT LAMP WITH MEDIUM BASE LAMPHOLDER, HIGH IMPACT RESISTANCE GUARD AND THERMOPLASTIC CORROSION RESISTANT HOUSING. CANLET CAT# GIWF15G-GSC OR APPROVED EQUAL.

"HA" 100 WAH METAL HALIDE WALL PACK WITH DIFFUSE RETRACTOR, CORROSION RESISTANT HOUSING TOTALLY ENCLOSED, U.L. LISTED FOR WET LOCATION. BALLAST SHALL BE RATED FOR -20' F OPERATION AND FUSED, 120V. RATING. LITHONIA CAT # TLOH 100M OR APPROVED EQUAL.

ADDITIONAL PANEL MAY BE REQUIRED PENDING EQUIPMENT CALSSIFICATION AND LOAD REQUIRED

PANEL LP-A		208Y/120V 3Ø, 4 WIRE				200 AMPERE MAIN BREAKER								
CCT NO.	VOLT-AMPS			CCT-BKR		CCT-BKR		DESCRIPTION			VOLT-AMPS			CCT NO.
	A	B	C	POL	AMP	POL	AMP	A	B	C				
1	900				1	20							2	
3		900			1	20	3	30				2000	4	
5			1200		1	20							6	
7	1200				1	20							8	
9		1200			1	20	3	30				1500	10	
11			1200		1	20							12	
13	1200				1	20						2000	14	
15		400			1	20	3	30				2000	16	
17			400		1	20							18	
19	400				1	20	1	20					20	
21					1	20	1	20					22	
23					1	20	1	20					24	
25					1	20	1	20					26	
27					1	20	1	20					28	
29					1	20	1	20					30	
	3700	2500	2800									4500	4500	4500
PANEL TOTAL				22500	VA (CONNECTED)		63	AMPS (CONNECTED)						



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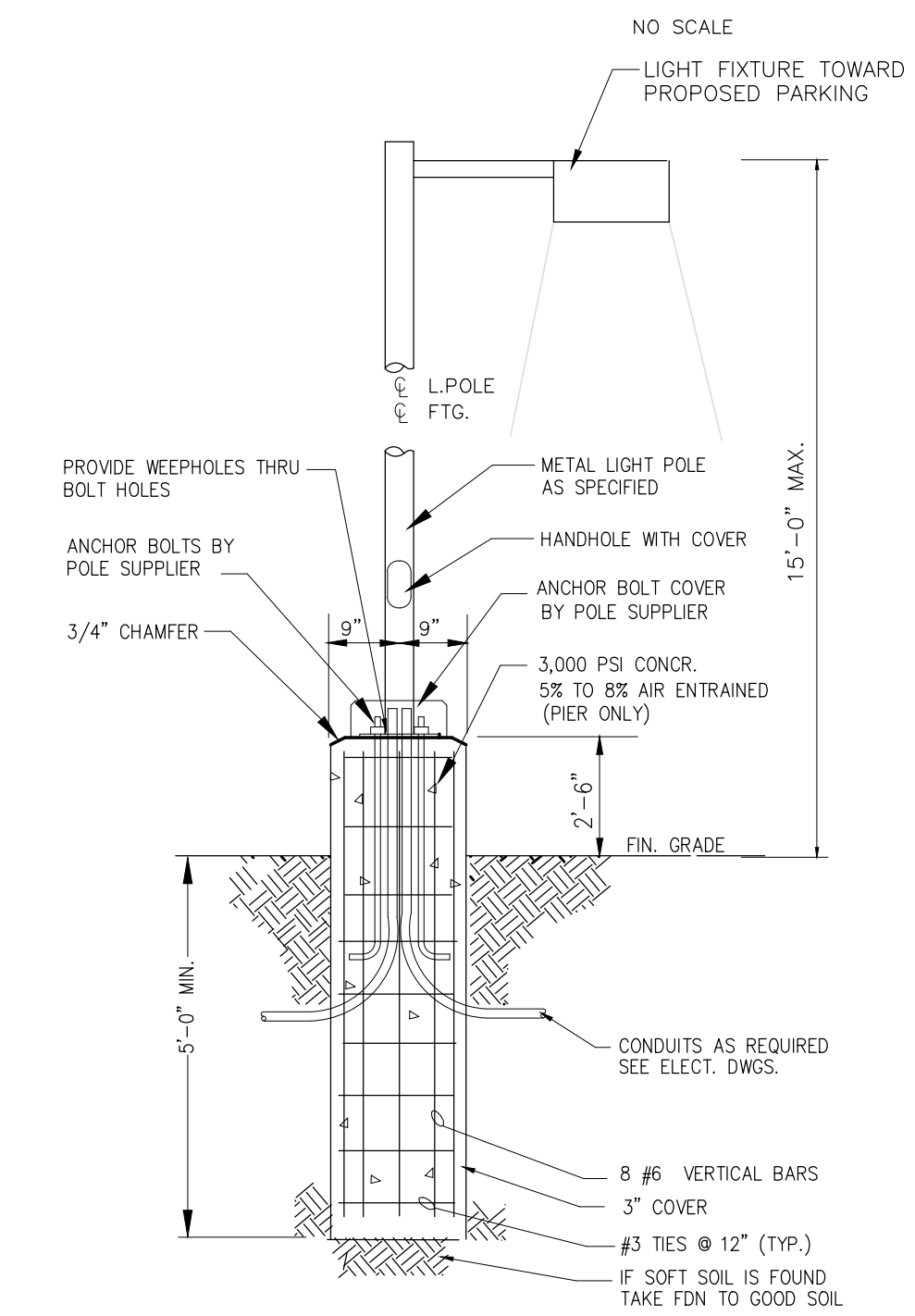
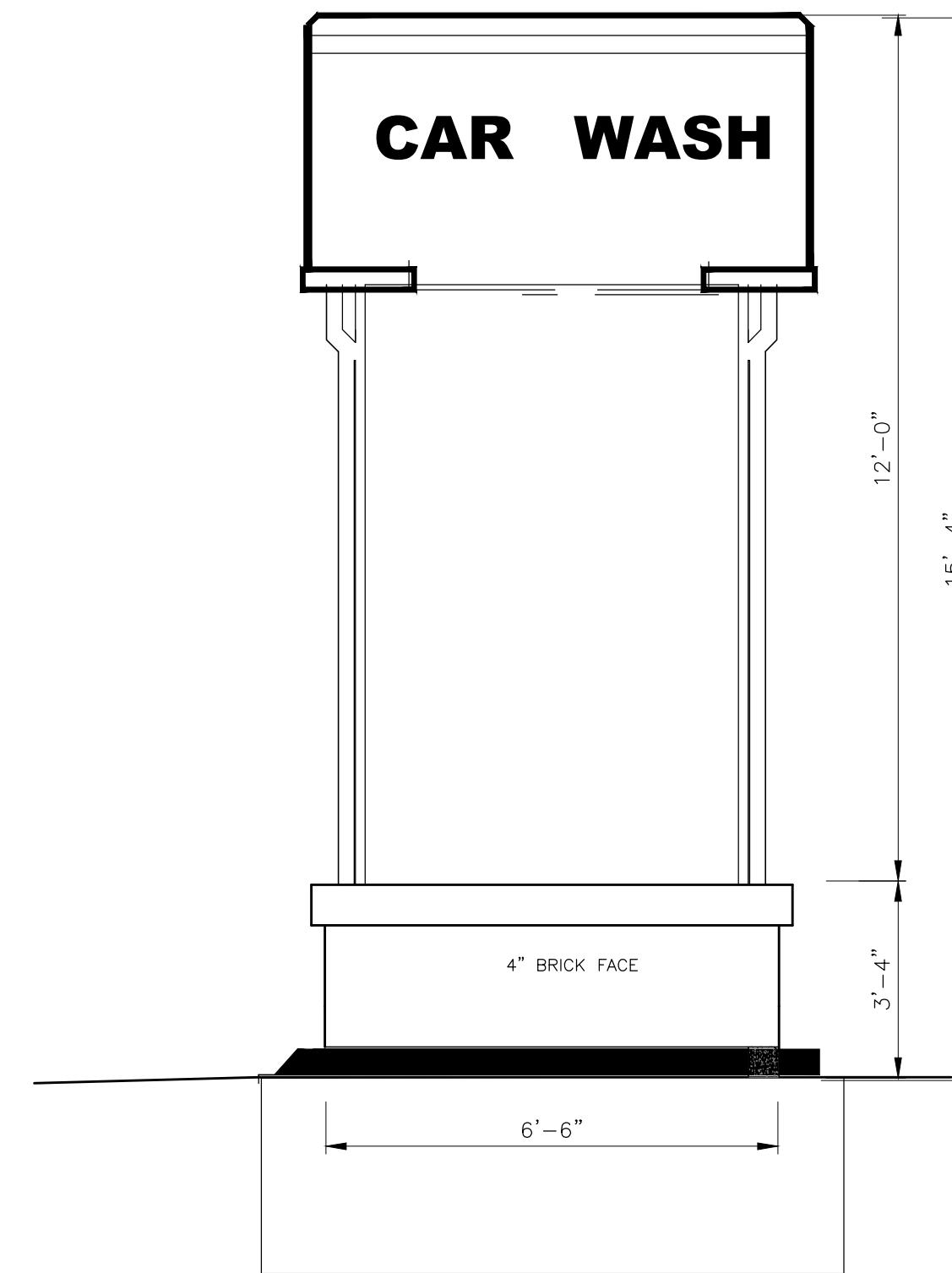
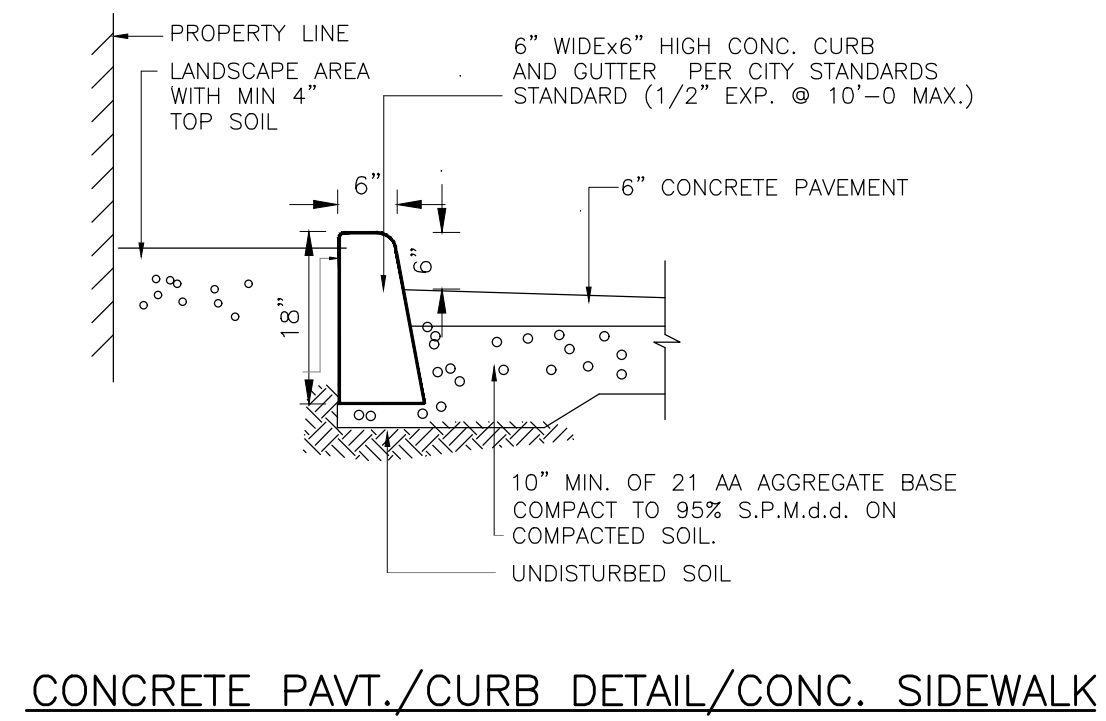
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Project:
NEW CAR WASH
10755 W 7 MILE ROAD
DETROIT MI
OWNER

Drawing Title:
ELECTRICAL PANELS

Project Number	
Scale	AS NOTED
Date	
Drawn By	
Checked By	

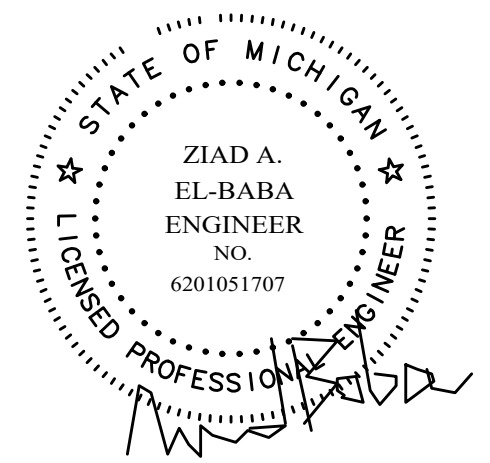
Drawing No.
E-2



NOTE: ALL NEW LIGHTING TO BE SHIELDED AND DIRECTED DOWN WARD.

LIGHTING NOTES:

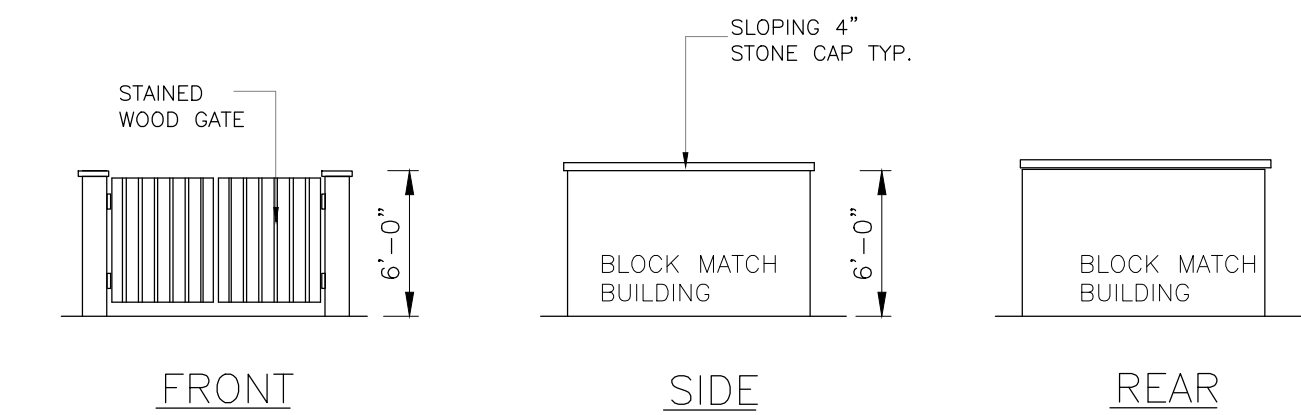
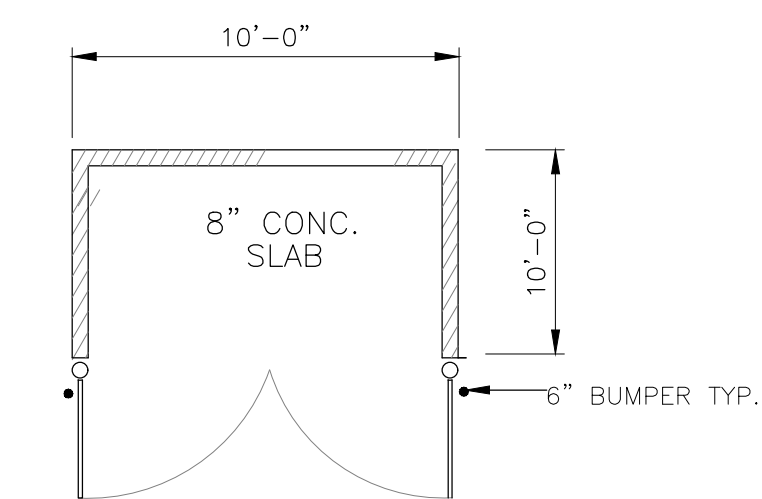
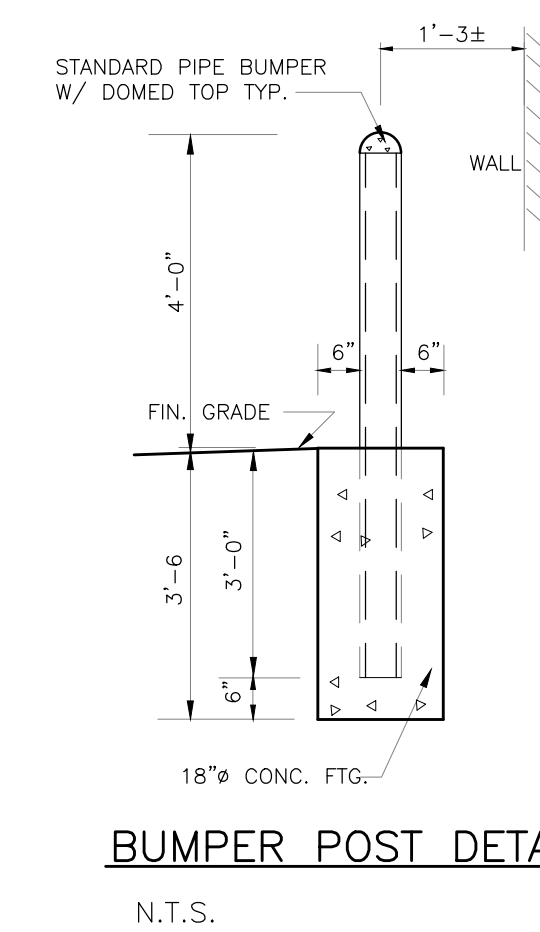
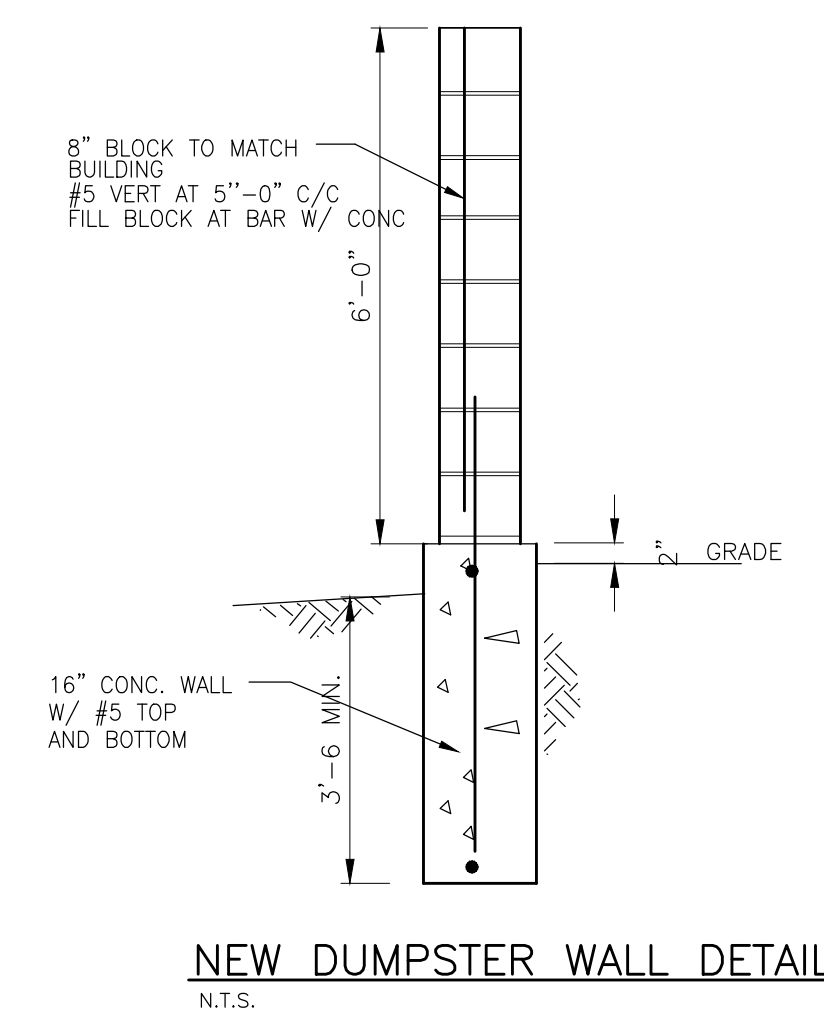
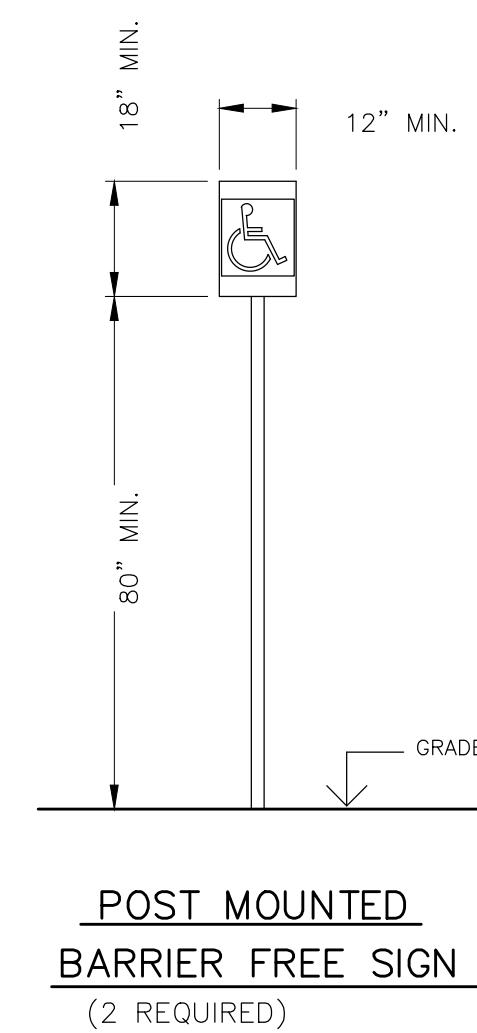
- 1- PARKING LOT LIGHTING POLE LENS TO BE LIMITED TO 250 W
- 2- WALL PACK ARE LIMITED TO 175 W
- 3- ALL LIGHTS TO BE SHIELDED FROM ADJACENT PROPERTY.



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Project:
NEW CAR WASH
10755 W 7 MILE ROAD
DETROIT MI

OWNER

Drawing Title:
CIVIL DETAILS

Project Number

Scale AS NOTED

Date

Drawn By

Checked By

Drawing No.
SP-5