AMERICAN LEGION
POST #490

11702 GALVESTON RD.
HOUSTON, TX 77034

ACCESSIBILITY REQUIREMENTS

REFERENCES TO A.D.A. REQUIREMENTS IN THESE DRAWINGS MAY BE REFERENCED ON SHEET G001, G002, AND G003 OF THESE CONSTRUCTION DOCUMENTS. THIS PARTIAL SET OF REGULATIONS IS NOT INTENDED TO REPLACE THE A.D.A. REGULATIONS DATED MARCH 15TH, 2012.

ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND THE A.D.A. REGULATIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY.

CONTRACTOR NOTICE:

ARCHITECTURAL CAD FILES FOR USE BY GENERAL CONTRACTOR OR SUB CONTRACTOR MAY BE OBTAINED FROM CDA ARCHITECTS FOR A FEE OF $75.00 PER DRAWING FILE. THE END USER OF THE FILE(S) WILL BE REQUIRED TO SIGN A RELEASE FORM PRIOR TO THE DISTRIBUTION OF THE CAD FILE(S). SUBMIT YOUR REQUEST TO THE CDA PROJECT MANAGER FOR REVIEW.

THE ARCHITECT'S CONSULTANTS CAD FILES MUST BE OBTAINED DIRECTLY FROM THE CONSULTANTS AT THE CONSULTANT'S DISCRETION.

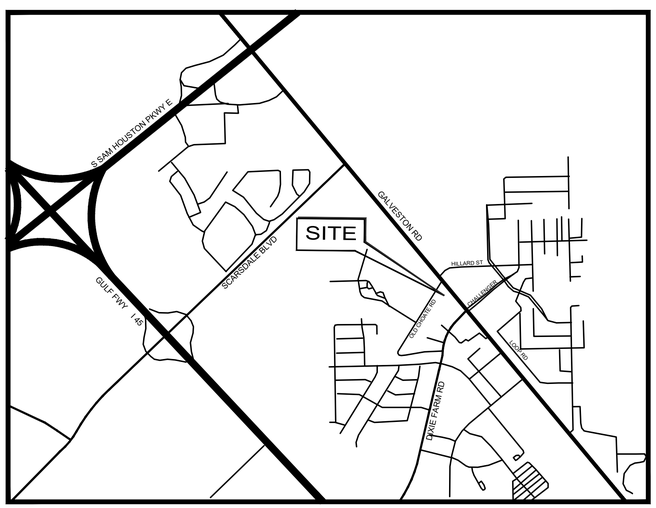
CONTACTS

GENERAL CONTRACTOR
E & S CONSTRUCTION
4913 COLLEGE PARK
DEER PARK, TX 77536
PH: (281) 476-4722
ATTN: MARK O'REAR

STRUCTURE/CIVIL
H2B, INC.
3001 EARL RUDDER FWY, SUITE 400
COLLEGE STATION, TX 77845
PH: (713) 864-2900
ATTN: TRAVIS E. JAMES, P.E.

ARCHITECT
CDA ARCHITECTS
20445 STATE HWY 249, SUITE 200
HOUSTON, TEXAS 77070
PH: (832) 678-9232
ATTN: RAY DUERER, AIA

VICINITY MAP



BUILDING CODE ANALYSIS

- SUMMARY OF THE PROJECT
  THIS PROJECT INVOLVES THE NEW CONSTRUCTION AND INTERIOR BUILD OUT OF VETERANS ORGANIZATION, AMERICAN LEGION, TO BE LOCATED AT:
  11702 GALVESTON RD.
  HOUSTON, TX 77034

- BUILDING DEPARTMENT CONTACT
  HOUSTON PERMITTING CENTER
  1002 WASHINGTON AVENUE
  HOUSTON, TX 77002

- APPLICABLE BUILDING CODES

		CODES		AMENDMENTS
BUILDING	2015 INTERNATIONAL BUILDING CODE		HOUSTON AMMENDMENTS	
FIRE	2015 INTERNATIONAL FIRE CODE			
PLUMBING	2012 UNIFORM PLUMBING CODE			
MECHANICAL	2015 UNIFORM MECHANICAL CODE			
ELECTRICAL	2020 NATIONAL ELECTRIC CODE			
ENERGY	2015 IECC/ 2013 ASHRAE 90.1		PURSUANT TO 19.53 OF SUB-CHP E, CHP. 19, TITLE 34, TEXAS ADMIN CODE	
OTHER	2015 CITY OF HOUSTON CODE WORDS			
OTHER				

THE DESIGN INTENT OF THIS PROJECT IS TO COMPLY FULLY WITH ALL GOVERNING CODES, REGULATIONS, AND AUTHORITIES. ANY EXCEPTIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY.

- OCCUPANCY CLASSIFICATION — IBC 303
  GROUP: BUSINESS (B), ASSEMBLY (A-2)

- CONSTRUCTION TYPE — IBC 602
  TYPE II-B, SPRINKLERED

- GROSS BUILDING AREA — IBC TABLE 506.2
  38,000 SF MAX. ALLOWABLE
  11,416 SF PROVIDED

- ALLOWABLE BUILDING HEIGHT — IBC TABLE 504.3, IBC TABLE 504.4
  75'-0" MAX. ALLOWABLE (3 STORIES)

- CALCULATED OCCUPANT LOAD — IBC TABLE 1004.5

BUSINESS (B) FLOOR AREA:	AREA PER OCCUPANT =	150 S.F.
	GROSS FLOOR AREA =	884 S.F.
	TOTAL =	884/150 = 6 OCCUPANTS
STORAGE (S-2) FLOOR AREA/ WALK-IN COOLERS:	AREA PER OCCUPANT =	500 S.F.
	GROSS FLOOR AREA COOLERS =	198 S.F.
	GROSS FLOOR AREA STORAGE/WH=	440 S.F.
	TOTAL =	638/500 = 2 OCCUPANTS
KITCHENS-COMMERCIAL/ BAR SERVICE (F-1):	AREA PER OCCUPANT =	200 S.F.
	GROSS FLOOR AREA KITCHEN =	892 S.F.
	GROSS FLOOR AREA BAR =	163 S.F.
	GROSS FLOOR AREA LAUNDRY =	220 S.F.
	TOTAL =	1,275/200 = 7 OCCUPANTS
ASSEMBLY (A-2)/ BANQUET HALL / VETERAN CLUB:	GROSS FLOOR AREA TABLES AND CHAIRS =	2,684 S.F./ 15 NET= 179
	GROSS FLOOR AREA STAGE =	148 S.F./ 15 ET= 10
		TOTAL A-2 = 189 OCCUPANTS
ALLOWANCES PER OCCUPANT: RESTROOMS= 349 SQ.FT.		0 OCCUPANTS
ALLOWANCES PER OCCUPANT: HALLWAY= 210 SQ.FT.		0 OCCUPANTS

BUILDING FOOTPRINT = 11,416 SF	BUILD OUT = 6,148 SF	TOTAL OCCUPANT LOAD = 204 OCCUPANTS

- EXIT CAPACITY — IBC 1015.3.2
  EXIT CAPACITY REQUIRED:
  204 x 0.2 INCHES PER PERSON = 41" (REQUIRED)
  CALCULATED EXIT CAPACITY PROVIDED (PER EXIT):
  (5)36" = 180" (CLEAR PROVIDED)

- MINIMUM NUMBER OF EXITS
  MINIMUM NUMBER OF EXITS REQUIRED = 4 — IBC 1015
  NUMBER OF EXITS PROVIDED = 4
  DISTANCE APART IS 1/2 OF THE LENGTH OF THE MAX. OVERALL DIAGONAL DIM. OF THE BUILDING
  MAX. DISTANCE TO EXIT: 250' — IBC 1017
  MAX. DEAD END LENGTH / SPRINKLERED: 50' — IBC 1020.4

- MINIMUM NUMBER OF PLUMBING FIXTURES — UPC 2012

MINIMUM FIXTURES REQUIRED / PROVIDED

DIVISION BY GENDER	WATER CLOSETS		URINALS		LAVATORIES		SERVICE SINKS		DRINKING FOUNTAINS	
	REQ.	PROV.	REQ.	PROV.	REQ.	PROV.	REQ.	PROV.	REQ.	PROV.
MALE	2	2	1	1	1	2				
FEMALE	2	3			1	2				
GENERAL	4	5			2	4	1	1	1	*

* BOTTLED WATER SERVICE PROVIDED IN LIEU OF DRINKING FOUNTAIN.

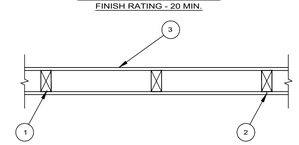
- FIRE RESISTIVE REQUIREMENTS
  FIRE ALARMS SHALL BE SUBMITTED AND APPROVED SEPARATELY BY THE CITY OF HOUSTON, PRIOR TO THEIR INSTALLATION

INDEX TO DRAWINGS

GENERAL
G000 COVER SHEET, INDEX, AND SITE PLAN
G001 ACCESSIBILITY REQUIREMENTS
G002 ACCESSIBILITY REQUIREMENTS
G003 ACCESSIBILITY REQUIREMENTS

ARCHITECTURE
A000 SITE PLAN
A001 SITE DETAILS
A002 EGRESS PLAN
A100 FLOOR PLAN
A110 REFLECTED CEILING PLAN
A120 FINISH PLAN
A140 ROOF PLAN
A200 EXTERIOR ELEVATIONS
A300 BUILDING SECTIONS
A410 INTERIOR ELEVATIONS
A500 DETAILS

U.L. DESIGN NO. U305
BEARING WALL RATINGS - 1 HR.
FINISH RATING - 20 MIN.



1. WOOD STUDS-NOM 2 BY 4 IN. SPACED 16 IN. oc MAX, EFFECTIVELY FIRESTOPPED.
2. JOINTS-EXPOSED OR COVERED WITH FIBER TAPE AND JOINT COMPOUND, EXCEPT WHERE REQUIRED FOR SPECIFIC EDGE CONFIGURATION. FOR TAPERED, ROUNDED-EDGE GYPSUM BOARD, JOINTS COVERED WITH JOINT COMPOUND OR FIBER TAPE AND JOINT COMPOUND.
3. WALLBOARD, GYPSUM*-5/8 IN. THICK PAPER OR VINYL SURFACED, WITH BEVELED, SQUARE, OR TAPERED EDGES, APPLIED EITHER VERTICALLY OR HORIZONTALLY. GYPSUM PANELS NAILED 7 IN. OC WITH 6D CEMENT COATED NAILS 1-7/8 IN. LONG, 0.09 IS IN. SHANK DIAM AND 15/16 IN DIAM HEADS. WHEN USED IN WIDTHS OTHER THAN 48", GYPSUM PANELS TO BE INSTALLED HORIZONTALLY.

U.L. DESIGN NO. U305

CDA Architects
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20445 State Hwy 249, Suite 200
Houston, Texas 77070
832/678-9232 Fax 832/678-9240

REGISTERED ARCHITECT — BRIAN A. DUERER — 17528 — STATE OF TEXAS

Date: 07/06/2022

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AMERICAN LEGION
POST #490
11702 GALVESTON RD
HOUSTON, TX 77034

SCALE: AS NOTED

PROJECT NUMBER:

DATE: JULY 06, 2022

CLINIC COVER SHEET, INDEX AND SITE PLAN

SHEET NO.

G000

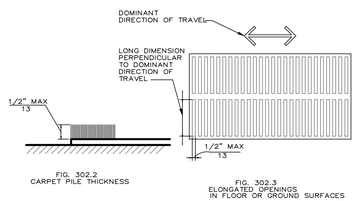


FIG. 302.2
CARPET PILE THICKNESS

FIG. 302.3
ELONGATED OPENINGS IN FLOOR OR GROUND SURFACES

1 302 FLOOR OR GROUND SURFACES, N.T.S.

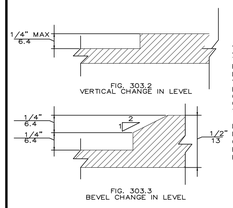


FIG. 303.2
VERTICAL CHANGE IN LEVEL

FIG. 303.3
BEVEL CHANGE IN LEVEL

ADVISORY 303.3 BEVELED. A CHANGE IN LEVEL OF 1/2 INCH (13mm) IS PERMITTED TO BE 1/4 INCH (6.4 mm) VERTICAL PLUS 1/4 INCH BEVELED. HOWEVER, IN NO CASE MAY THE COMBINED CHANGE IN LEVEL EXCEED 1/2 INCH (13mm). CHANGES IN LEVEL EXCEEDING 1/2 INCH (13 mm) MUST COMPLY WITH 405 (RAMPS) OR 406 (CURB RAMPS).

2 303 CHANGES IN LEVEL, N.T.S.

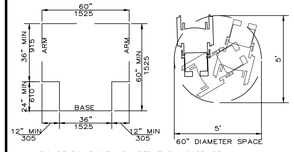
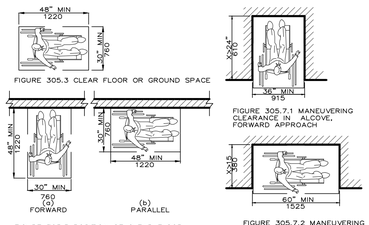
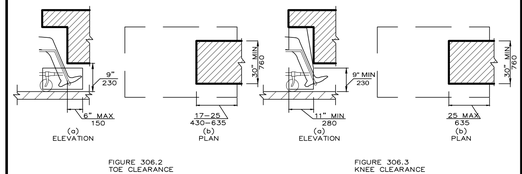


FIGURE 304.3.2 T– SHAPED TURNING SPACE

3 304 TURNING SPACES, N.T.S.



4 305 CLEAR FLOOR OR GROUND SPACE, N.T.S.



5 306 KNEE AND TOE CLEARANCE, N.T.S.

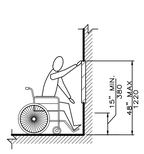


FIGURE 308.2.1 UNOBSTRUCTED FORWARD REACH

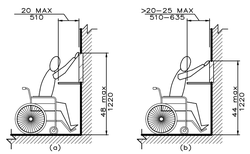


FIGURE 308.2.2 UNOBSTRUCTED HIGH FORWARD REACH

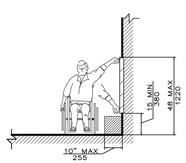


FIGURE 308.3.1 UNOBSTRUCTED SIDE REACH

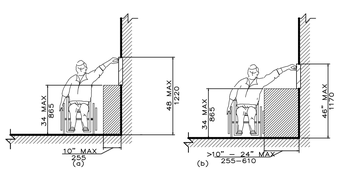


FIGURE 308.3.2 OBSTRUCTED HIGH SIDE REACH

6 307 PROTRUDING OBJECTS, N.T.S.

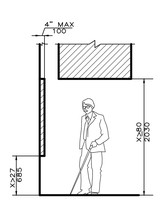


FIGURE 307.2
LIMITS OF PROTRUDING OBJECTS

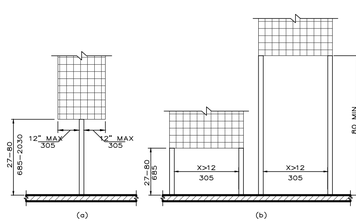


FIGURE 307.3
POST–MOUNTED PROTRUDING OBJECTS

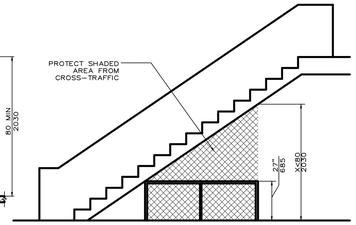


FIG. 307.4 VERTICAL CLEARANCE

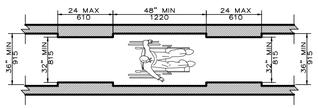


FIGURE 403.5.1 CLEAR WIDTH OF AN ACCESSIBLE ROUTE

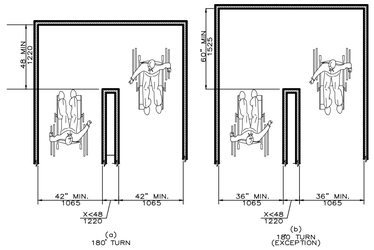


FIGURE 403.5.2 CLEAR WIDTH AT TURN

7 403 OPERABLE PARTS, N.T.S.

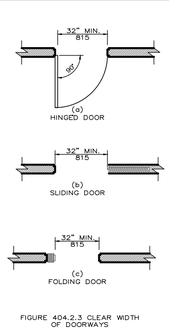
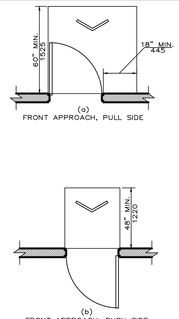
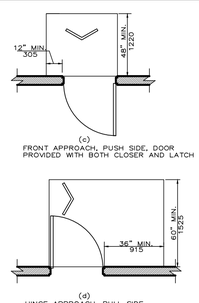
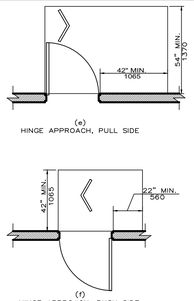


FIGURE 404.2.3 CLEAR WIDTH OF DOORWAYS







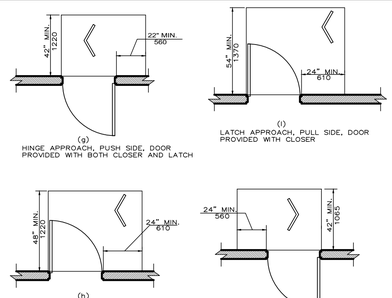
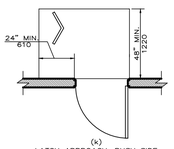
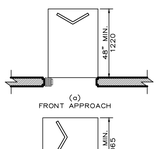


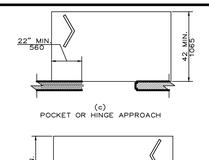
FIGURE 404.2.4.1 MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES

KEY
= DIRECTION OF APPROACH

8 404 DOORS, DOORWAYS, AND GATES, N.T.S.







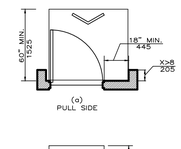
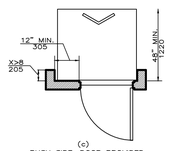


FIGURE 404.2.4.2 MANEUVERING CLEARANCES AT DOORWAYS WITHOUT DOORS, SLIDING DOORS, GATES, AND FOLDING DOORS

FIGURE 404.2.4.3 MANEUVERING CLEARANCES AT RECESSED DOORS AND GATES



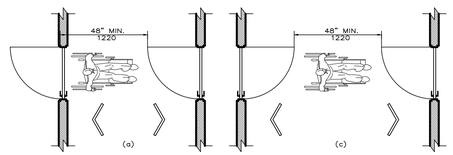


FIGURE 404.2.4.6 DOORS IN SERIES AND GATES IN SERIES

8 DOORS, DOORWAYS, AND GATES, CONTINUED N.T.S.

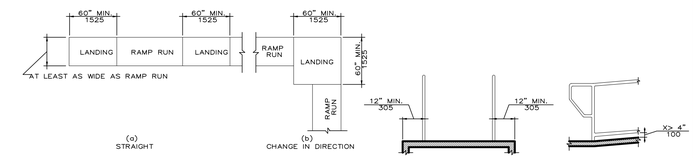


FIGURE 405.7 RAMP LANDINGS

FIGURE 405.9.1 EXTENDED FLOOR OR GROUND SURFACE EDGE PROTECTION

FIGURE 405.9.2 CURB OR BARRIER EDGE PROTECTION

9 405 RAMPS, N.T.S.

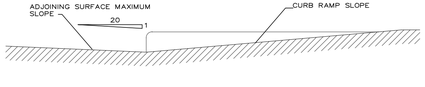
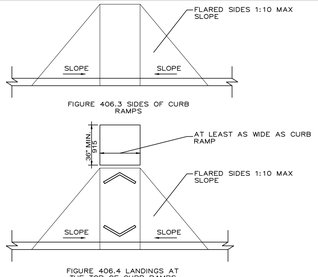
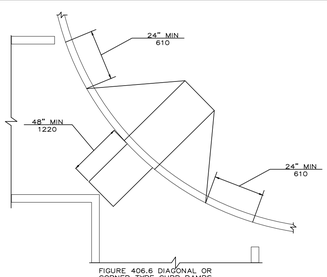
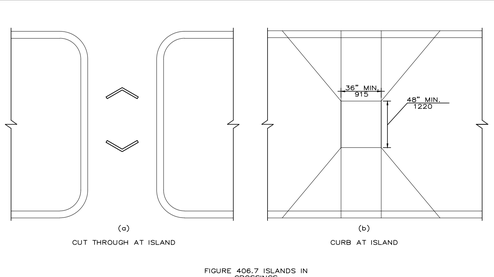


FIGURE 406.2 COUNTER SLOPE OF SURFACES ADJACENT TO CURB RAMPS







10 406 CURB RAMPS, N.T.S.

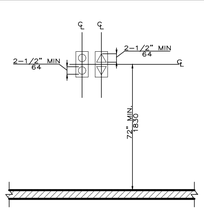


FIGURE 407.2.2.2 VISIBLE HALL SIGNS

11 407 ELEVATORS, N.T.S.

CDA Architects
Member American Institute of Architects
20445 State Hwy 249, Suite 200
Houston, Texas 77070
832/678-9232 Fax 832/678-9240

REGISTERED ARCHITECT — JOHN A. DUERR — 17529 — STATE OF TEXAS

Date: 07/06/2022

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AMERICAN LEGION
POST #490
11702 GALVESTON RD
HOUSTON, TX 77034

SCALE: AS NOTED
PROJECT NUMBER:
DATE: JULY 06, 2022

ACCESSIBILITY REQUIREMENTS

SHEET NO.
G001

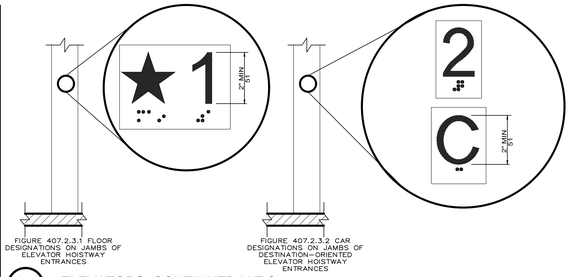


FIGURE 407.2.3.1 FLOOR DESIGNATIONS ON JAMBS OF ELEVATOR HOISTWAY ENTRANCES

FIGURE 407.2.3.2 CAR DESIGNATIONS ON JAMBS OF DESTINATION-ORIENTED ELEVATOR HOISTWAY ENTRANCES

11 ELEVATORS, CONTINUED N.T.S.

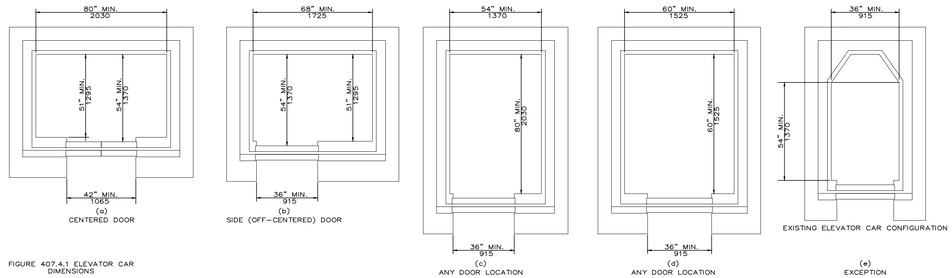


FIGURE 407.4.1 ELEVATOR CAR DIMENSIONS

CONTROL BUTTON	TACTILE SYMBOL	BRAILLE MESSAGE
EMERGENCY STOP		"ST"OP THREE CELLS
ALARM		AL"AR"M FOUR CELLS
DOOR OPEN		OP"EN" THREE CELLS
DOOR CLOSE		CLOSE FIVE CELLS
MAIN ENTRY FLOOR		MA"IN" THREE CELLS
PHONE		PH"ONE" FOUR CELLS

TABLE 407.4.7.1.3 ELEVATOR CONTROL IDENTIFICATION

CDA Architects
Member American Institute of Architects
20445 State Hwy 249, Suite 200
Houston, Texas 77070
832/678-9232 Fax 832/678-9240

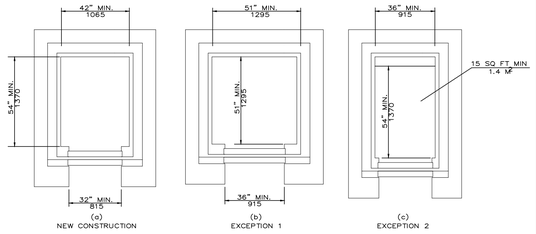


FIGURE 408.4.1 LIMITED-USE/ LIMITED APPLICATION (LULA) ELEVATOR CAR DIMENSIONS

12 408 LIMITED USE / LIMITED-APPLICATION ELEVATORS, N.T.S.

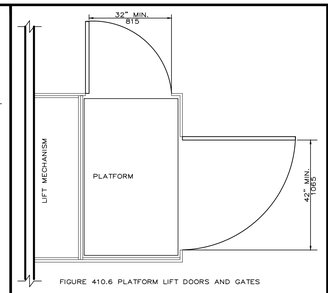


FIGURE 410.6 PLATFORM LIFT DOORS AND GATES

13 410 PLATFORM LIFTS, N.T.S.

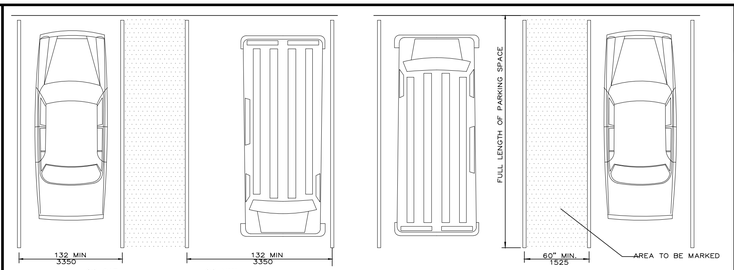


FIGURE 502.2 VEHICLE PARKING SPACES

FIGURE 502.3 PARKING SPACE ACCESS AISLE

14 502 PARKING SPACES, N.T.S.

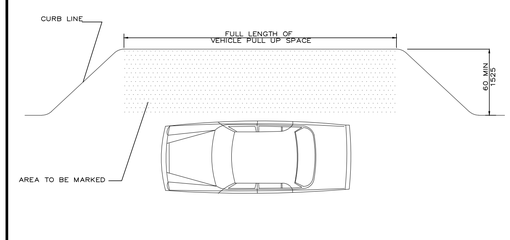


FIGURE 503.3 PASSENGER LOADING ZONE ACCESS AISLE

15 503 PASSENGER LOADING ZONES, N.T.S.

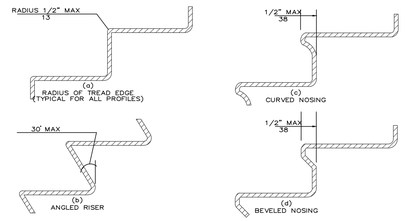


FIGURE 504.5 STAIR NOSINGS

16 504 STAIRWAYS, N.T.S.

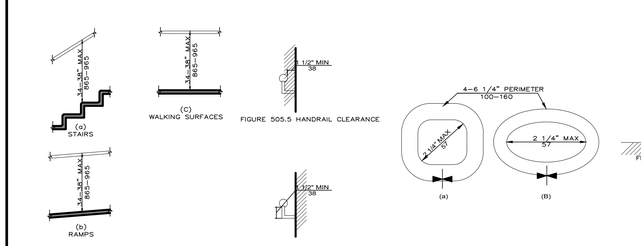


FIGURE 505.4 HANDRAIL HEIGHT

FIGURE 505.5 HANDRAIL CLEARANCE

FIGURE 505.6 HORIZONTAL PROJECTIONS BELOW GRIPPING SURFACES

FIGURE 505.7.2 HANDRAIL NON-CIRCULAR CROSS SECTION

FIGURE 505.10.1 TOP AND BOTTOM HANDRAIL EXTENSION AT RAMPS

FIGURE 505.10.2 TOP AND BOTTOM HANDRAIL EXTENSION AT RAMPS

NOTE: X: TREAD DEPTH

FIGURE 505.10.3 BOTTOM HANDRAIL EXTENSION AT STAIRS

17 505 HANDRAILS, N.T.S.

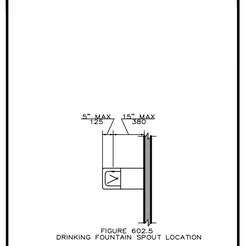


FIGURE 602.5 DRINKING FOUNTAIN SPOUT LOCATION

18 602 DRINKING FOUNTAINS, N.T.S.

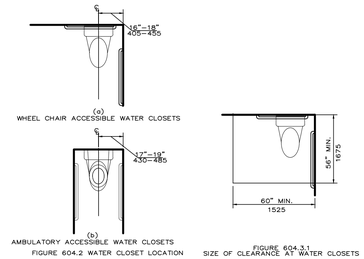


FIGURE 604.2 WATER CLOSET LOCATION

FIGURE 604.3.1 SIZE OF CLEARANCE AT WATER CLOSETS

19 604 WATER CLOSET LOCATION, N.T.S.

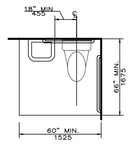


FIGURE 604.3.2 (EXCEPTION) OVERLAP OF WATER CLEARANCE IN RESIDENTIAL DWELLING UNITS

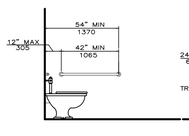


FIGURE 604.5.1 SIDE WALL GRAB BAR AT WATER CLOSETS

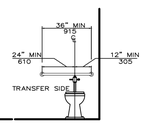


FIGURE 604.5.2 REAR WALL GRAB BAR AT WATER CLOSETS

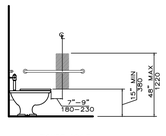


FIGURE 604.7 DISPENSER OUTLET LOCATION

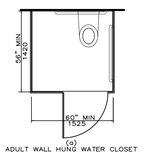


FIGURE 604.8.1.1 SIZE OF WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT

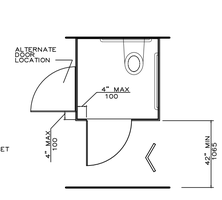
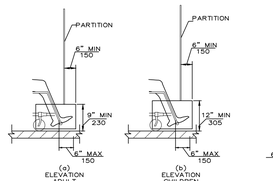


FIGURE 604.8.1.2 WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT DOORS



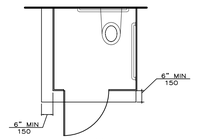


FIGURE 604.8.1.4 WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT TOE CLEARANCE

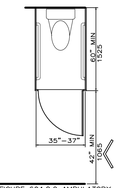


FIGURE 604.8.2 AMBULATORY ACCESSIBLE TOILET COMPARTMENT

19 WATER CLOSET LOCATION CONTINUED, N.T.S.

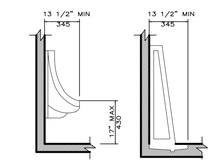


FIGURE 605.2 HEIGHT AND DEPTH OF URINALS

20 605 URINALS, N.T.S.

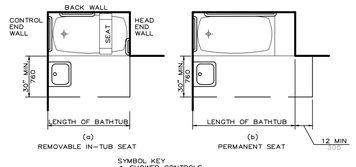


FIGURE 607.2 CLEARANCE FOR BATHTUBS

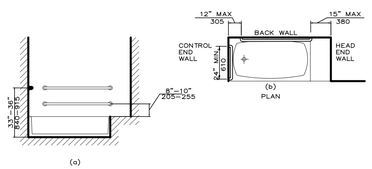


FIGURE 607.4.1 GRAB BARS FOR BATHTUBS WITH PERMANENT SEATS

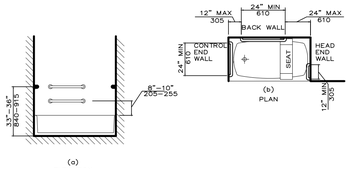


FIGURE 607.4.2 GRAB BARS FOR BATHTUBS WITH REMOVABLE IN-TUB SEATS

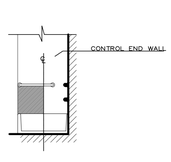


FIGURE 607.5 BATHTUB CONTROL LOCATION

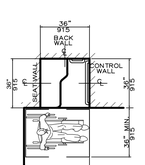


FIGURE 608.2.1 TRANSFER TYPE SHOWER COMPARTMENT SIZE AND CLEARANCE

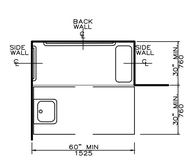


FIGURE 608.2.2 STANDARD ROLL-IN TYPE SHOWER COMPARTMENT SIZE AND CLEARANCE

NOTE: INSIDE FINISHED DIMENSIONS MEASURED AT CENTERPOINTS OF OPPOSING SIDES

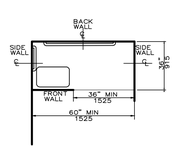


FIGURE 608.2.3 STANDARD ROLL-IN TYPE SHOWER COMPARTMENT SIZE AND CLEARANCE

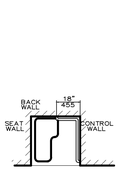


FIGURE 608.3.1 GRAB BARS FOR TRANSFER TYPE SHOWERS

21 607 BATHTUBS, N.T.S.

Date: 07/06/2022

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HOUSTON, TX 77034

SCALE: AS NOTED

PROJECT NUMBER:

DATE: JULY 06, 2022

ACCESSIBILITY REQUIREMENTS

SHEET NO.

G002

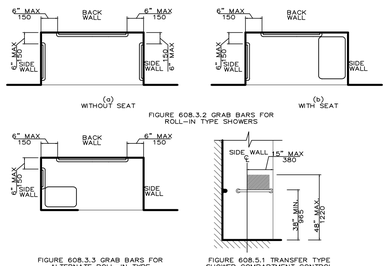
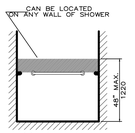


FIGURE 608.3.2 GRAB BARS FOR ROLL-IN TYPE SHOWERS

FIGURE 608.3.3 GRAB BARS FOR ALTERNATE ROLL-IN TYPE SHOWERS

FIGURE 608.5.1 TRANSFER TYPE SHOWER COMPARTMENT CONTROL LOCATION



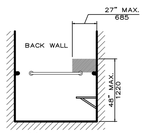


FIGURE 608.5.2 STANDARD ROLL-IN TYPE SHOWER COMPARTMENT CONTROL LOCATION

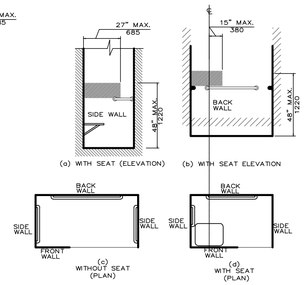


FIGURE 608.5.3 ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENT CONTROL LOCATION

21 BATHTUBS,CONTINUED, N.T.S.

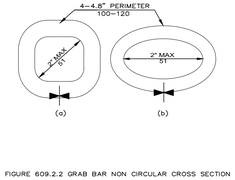


FIGURE 609.2.2 GRAB BAR NON CIRCULAR CROSS SECTION

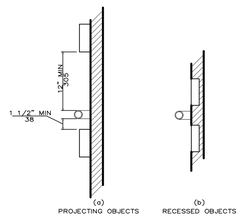


FIGURE 609.3 SPACING OF GRAB BARS

22 609 GRAB BARS, N.T.S.

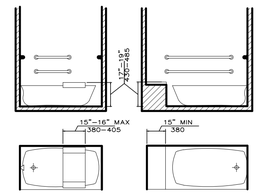


FIGURE 610.2 BATHTUB SEATS

23 610 SEATS, N.T.S.

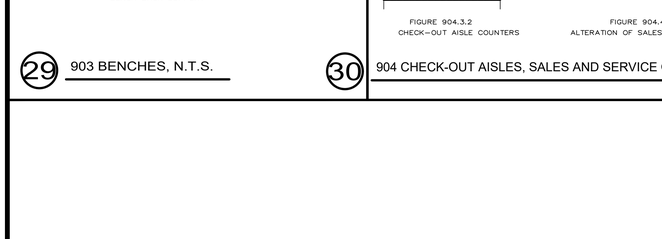


FIGURE 610.3. EXTENT OF SEAT

FIGURE 610.3.1 RECTANGULAR SHOWER SEAT

FIGURE 610.3.2 L-SHAPED SHOWER SEAT

23 SEATS, CONTINUED, N.T.S.

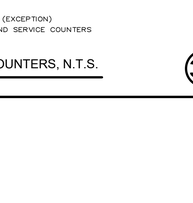


FIGURE 703.2.5 HEIGHT OF RAISED CHARACTER

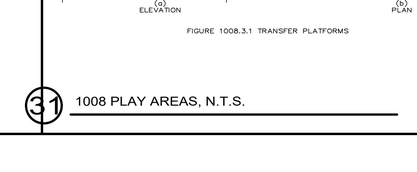


FIGURE 703.3.1 BRAILLE MEASUREMENT

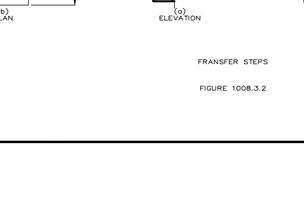


FIGURE 703.3.2 POSITION OF BRAILLE

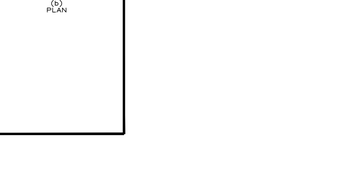


FIGURE 703.4.1 HEIGHT OF TACTILE CHARACTERS ABOVE FINISH FLOOR OR GROUND

FIGURE 703.4.2 LOCATION OF TACTILE SIGNS AT DOOR

24 703 SIGNS, N.T.S.

FIGURE 703.6.1 PICTOGRAM FIELD

FIGURE 703.7.2.1 INTERNATIONAL SYMBOL OF ACCESSIBILITY

FIGURE 703.7.2.3 INTERNATIONAL SYMBOL OF TTY

FIGURE 703.7.2.2 VOLUME CONTROL TELEPHONE

FIGURE 703.7.4 INTERNATIONAL SYMBOL OF ACCESS FOR HEARING LOSS

24 SIGNS CONTINUED, N.T.S.

FIGURE 704.2.1.1 PARALLEL APPROACH TO TELEPHONE

FIGURE 704.2.1.2 FORWARD APPROACH TO TELEPHONE

25 704 TELEPHONES, N.T.S.

FIGURE 705.1 SIZE AND SPACES OF TRUNCATED DOMES

26 705 DETECTABLE WARNINGS, N.T.S.

FIGURE 707.6.2 NUMERIC KEY LAYOUT

27 707 AUTOMATED TELLER MACHINES AND FARE MACHINES, N.T.S.

FIGURE 804.2.1 PASS THROUGH KITCHENS

FIGURE 804.2.2 U-SHAPED KITCHENS

28 804 KITCHENS AND KITCHENETTES, N.T.S.

FIGURE 903.4 BENCH BACK SUPPORT

29 903 BENCHES, N.T.S.

FIGURE 904.3.2 CHECK-OUT AISLE COUNTERS

FIGURE 904.4.4 (EXCEPTION) ALTERATION OF SALES AND SERVICE COUNTERS

30 904 CHECK-OUT AISLES, SALES AND SERVICE COUNTERS, N.T.S.

FIGURE 1008.3.1 TRANSFER PLATFORMS

FRANSFER STEPS

FIGURE 1008.3.2

31 1008 PLAY AREAS, N.T.S.

CDA Architects
Member American Institute of Architects
20445 State Hwy 249, Suite 200
Houston, Texas 77070
832/678-9232 Fax 832/678-9240

REGISTERED ARCHITECT JOHN A DUERR STATE OF TEXAS 17529

Date: 07/06/2022

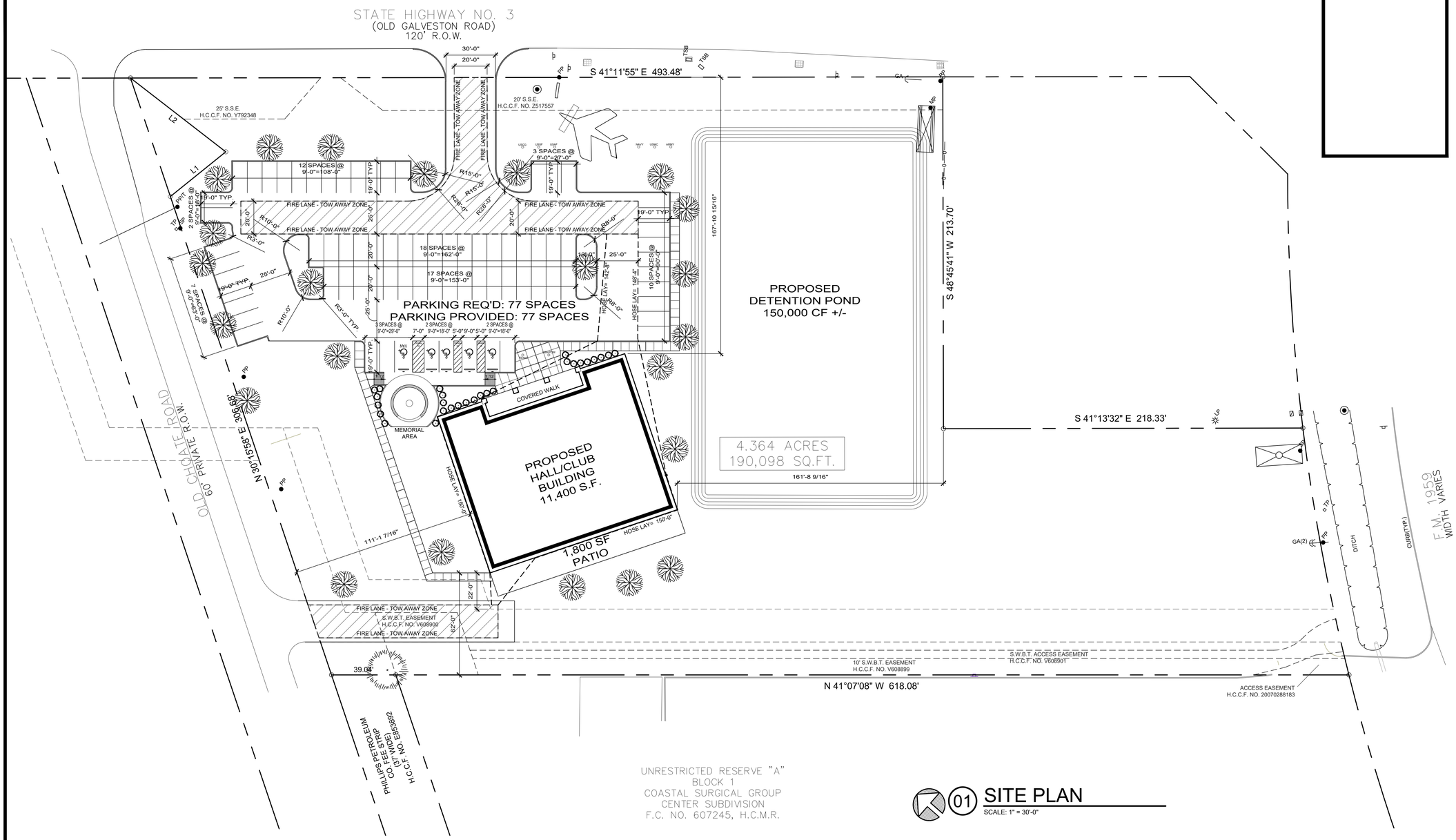
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AMERICAN LEGION
POST #490
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SCALE: AS NOTED
PROJECT NUMBER:
DATE: JULY 06, 2022

ACCESSIBILITY REQUIREMENTS

SHEET NO.
G003



01 SITE PLAN
SCALE: 1" = 30'-0"

20 FOOT WIDE FIRE ACCESS LANE

LAND AREA	BUILDING AREA	PARKING REQUIRED	PARKING PROVIDED	PARKING RATIO
4.364 ACRES 190,098 SQ.FT.	FOOTPRINT- 11,400 S.F. BUILD OUT- 6,148 S.F.	77 SPACES	77 SPACES	6.1 / 1000

PARKING ANALYSIS

OFFICE AREA:	2.5 PARKING SPACES PER 1,000 SF (884 SF) =	3 SPACES
BAR/ CLUB/ LOUNGE:	14 PARKING SPACES PER 1,000 SF (5,264 SF) =	74 SPACES

77 SPACES REQUIRED
77 SPACES PROVIDED

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REGISTERED ARCHITECT
KENT A. DUERSON
17528
STATE OF TEXAS

Date: 07/06/2022

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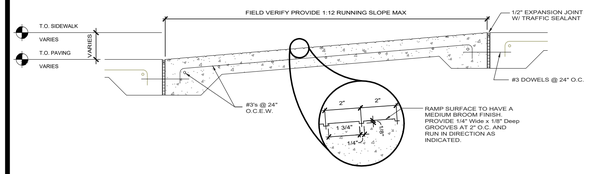
SCALE: AS NOTED

PROJECT NUMBER:

DATE: JULY 06, 2022

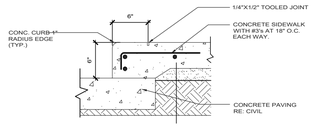
SITE PLAN

SHEET NO.
A000



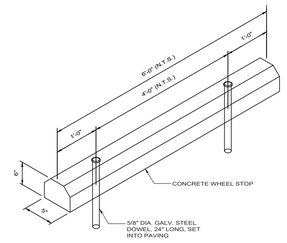
8 SIDEWALK RAMP SECTION

SCALE: NOT TO SCALE



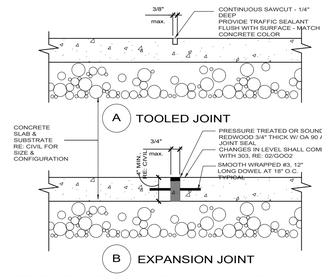
7 EDGE OF CURB / SIDEWALK

SCALE: 1" = 1'-0"



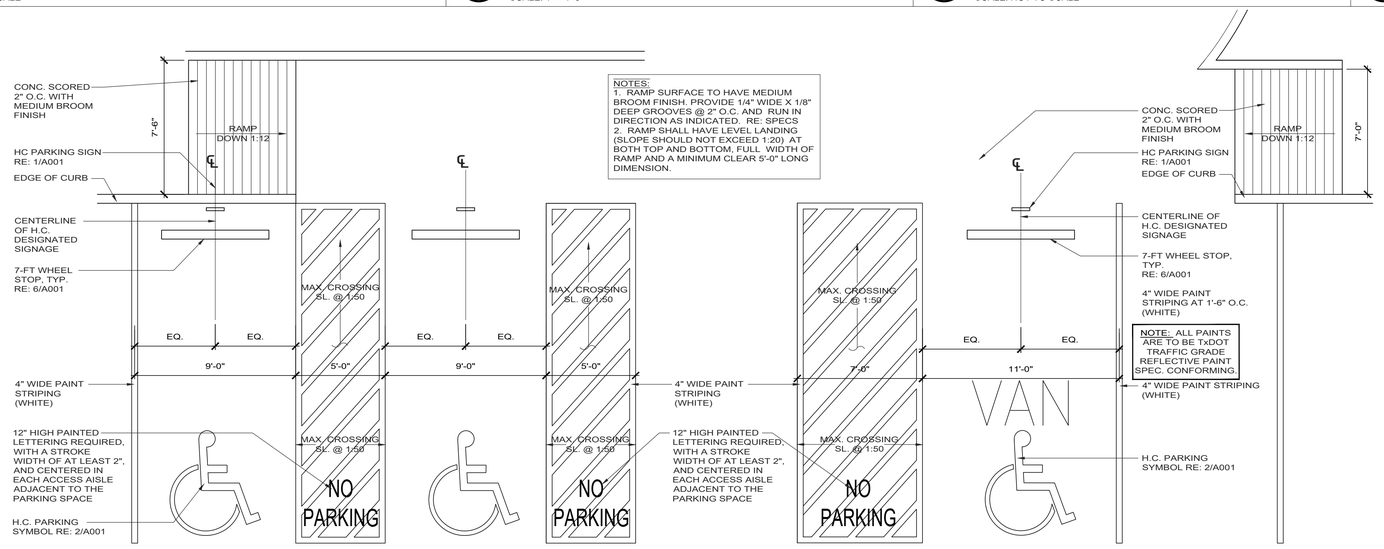
6 CONCRETE WHEEL STOP

SCALE: NOT TO SCALE



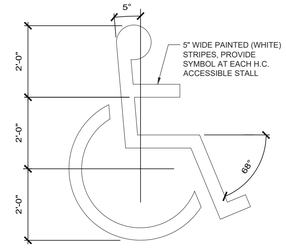
5 TOOLED / EXPANSION JOINT(S)

SCALE: 1" = 1'-0"



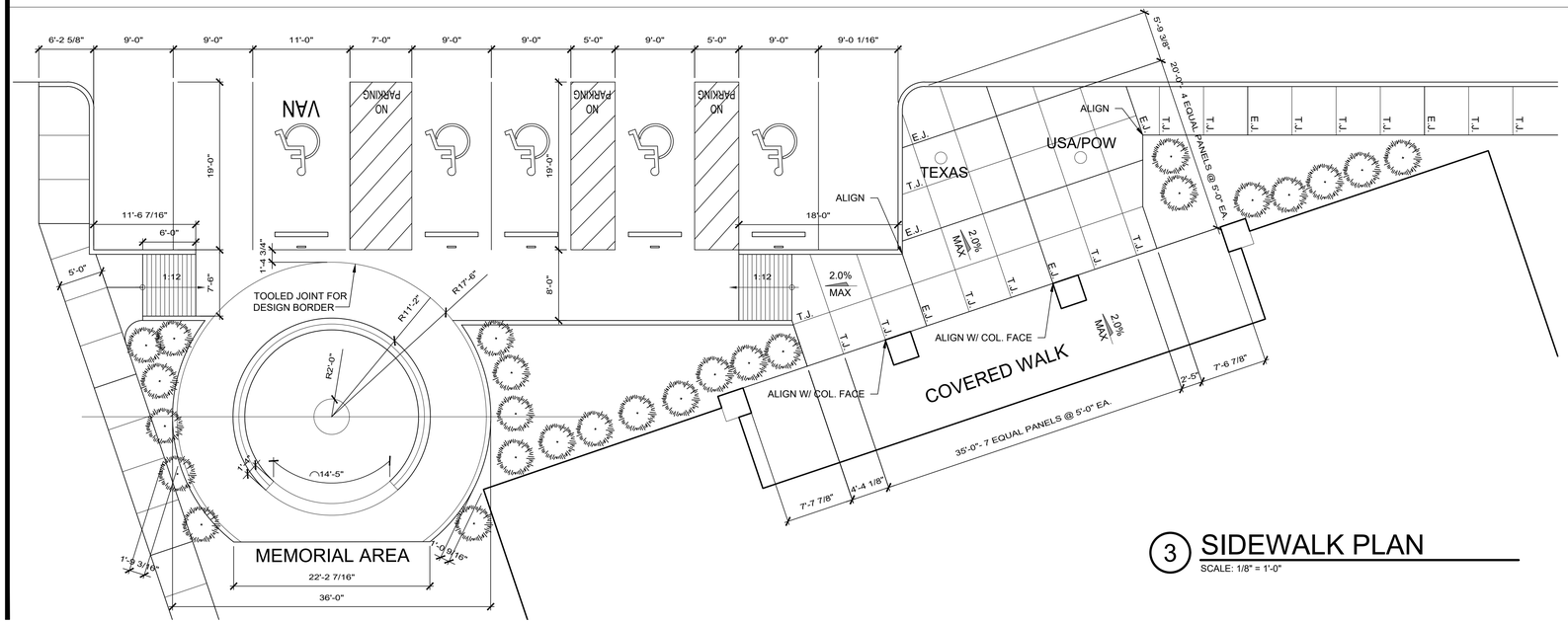
4 H.C. PARKING DETAILS

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



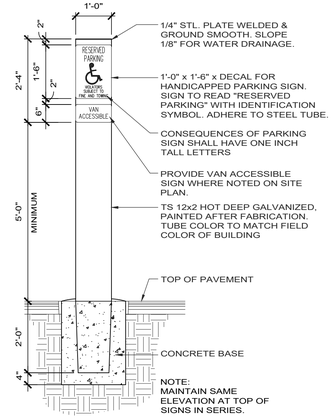
2 HC PARKING SYMBOL

SCALE: NOT TO SCALE



3 SIDEWALK PLAN

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



1 HC PARKING SIGN

SCALE: 1/2" = 1'-0"

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Date: 07/06/2022

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POST #490

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HOUSTON, TX 77034

SCALE: AS NOTED

PROJECT NUMBER:

DATE: JULY 06, 2022

SITE DETAILS

SHEET NO.

A001

SYMBOL LEGEND:

- SECTION DETAIL NUMBER / SECTION SHEET NUMBER (1 / A100)
- ENLARGED PLAN OR SECTION DETAIL REFERENCE KEY (X/AXXX)
- COLUMN GRID NUMBER (1)
- LED EMERGENCY EXIT LIGHTING, MOUNT AT 9'-0" TO BOTT. FIXTURE (EM)
- EXIT SIGN; RE: ELECT.
- DOOR TYPE, RE: A500 / DOOR NUMBER REFERENCE KEY (A / 9)
- ELEVATION KEY (1/A200)
- KEYED NOTE (A)
- WINDOW TYPE, RE: A500 (02)
- PORTABLE FIRE EXTINGUISHER PER IFC 2018, 3-A 40-B C MIN.

KEYED NOTES:

1. STAGE IS NOT RAISED, STAGE IS AT FINISH FLOOR



01 EGRESS PLAN
SCALE: 1/8" = 1'-0"

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SCALE: AS NOTED
PROJECT NUMBER:
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EGRESS PLAN

SHEET NO.
A002

GENERAL NOTES:

1. INTERIOR DIMENSIONS SHOWN ON THIS PLAN ARE FROM FINISHED FACE OF GYP. BD. (NOT FACE OF WOOD STUD.)
2. DRYWALL CONTROL JOINTS REQUIRED AT 30'-0" O.C. MAX.
3. THE HEIGHT OF ANY FLOOR LEVEL CHANGE PLUS THE HEIGHT OF ANY APPLIED THRESHOLD AT DOORWAY SILLS SHALL NOT EXCEED 1/2" AND SHALL BE BEVELED WITH A SLOPE NOT TO EXCEED 1:2.
4. ALL TOILET ROOM FIXTURES AND ACCESSORIES SHALL COMPLY WITH STATE AND FEDERAL REQUIREMENTS FOR THE ELIMINATION OF ARCHITECTURAL BARRIERS FOR DISABLED PERSONS. RE: ACCESSIBLE SHEETS.
5. ALL ELECTRICAL PANELS, GUTTERS AND EQUIPMENT TO BE PAINTED TO MATCH ADJACENT WALL COLOR.
6. WALLS:
   A) THE EXTERIOR WALLS ARE COMPOSED OF MIN. 2x6 WOOD STUDS @ 16" O.C. F
   B) COLUMNS & POSTS EXPOSED TO WEATHER MUST BE TREATED.
   C) PROVIDE ADEQUATE VERTICAL SUPPORT (SOLID) UNDER THE ENDS OF ALL BEAMS.
   D) ALL EXTERIOR WALLS & MAIN CROSS STUD PARTITIONS SHALL BE BRACED AT EACH END & BRACED ONCE EVERY 25' OF WALL.
   E) ALL LUMBER DIRECTLY IN CONTACT WITH CONCRETE MUST BE TREATED.
7. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CONFIRMING OVERALL DIMENSIONS AND STRUCT. CONDITIONS PRIOR TO BEGINNING WORK. ANY DISCREPANCIES OR POTENTIALLY PROBLEMATIC CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE OWNER.
8. GENERAL CONTRACTOR SHALL VERIFY THE FOLLOWING DIMENSIONS AND REPORT ANY DISCREPANCIES OR DESIGN CONFLICTS TO THE CONSTRUCTION MANAGER: OVERALL FLOOR WIDTH AND DEPTH, COLUMN LOCATIONS AND SIZES, DRIVE AISLE LOCATION, STOREFRONT ENTRY LOCATION, AND CEILING HEIGHTS.
9. SUBCONTRACTORS ARE RESPONSIBLE FOR HAULING OFF ALL CONSTRUCTION TRASH.
10. FIRE EXTINGUISHERS ARE TO BE INSTALLED DURING TENANT BUILD OUT PER IFC 906.
11. REFER TO MFR. FOR TYPICAL USE OF METAL STUDS THROUGHOUT THIS PROJECT.

SYMBOL LEGEND:

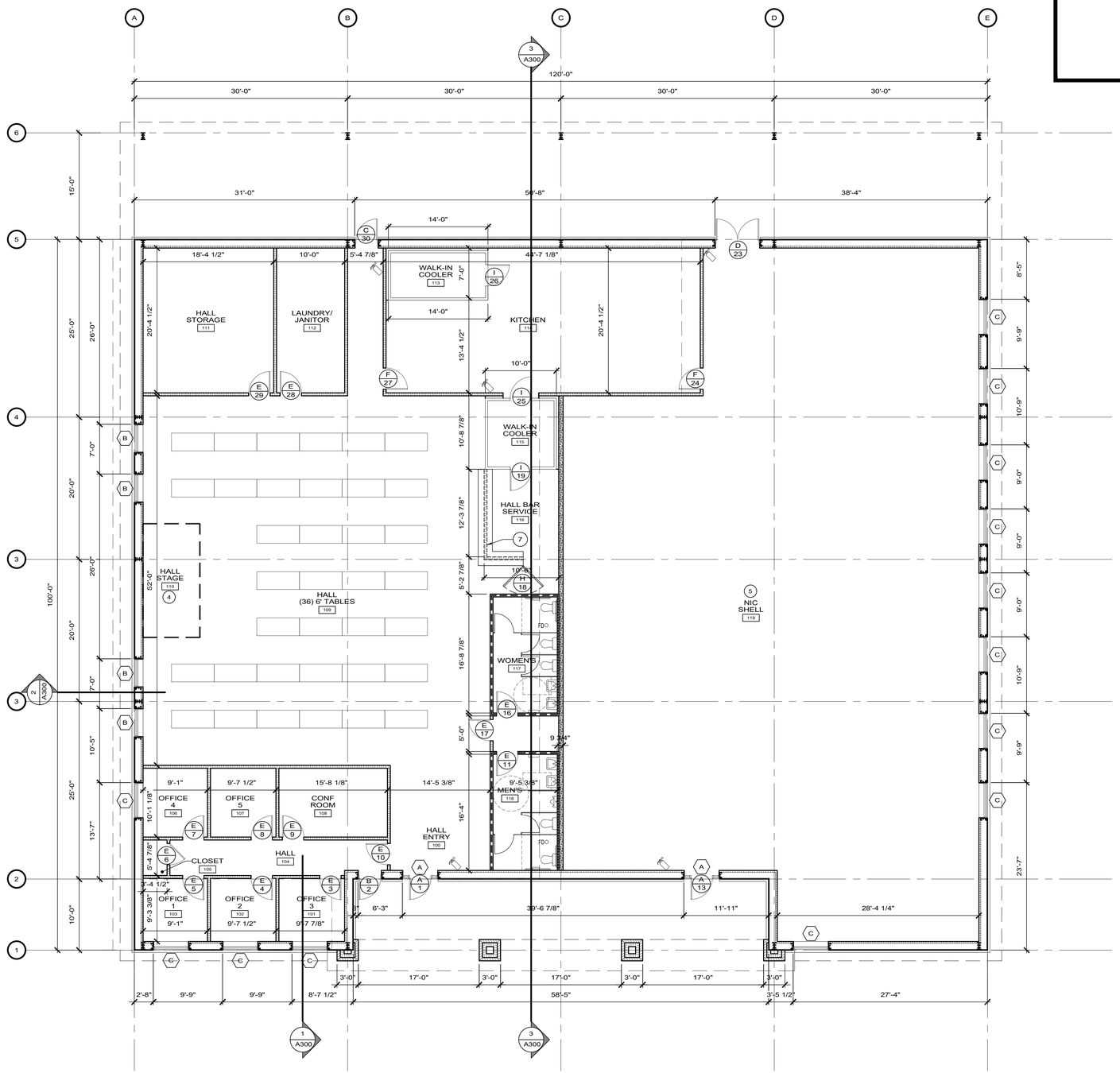
- SECTION DETAIL NUMBER / SECTION SHEET NUMBER (1 / A100)
- ENLARGED PLAN OR SECTION DETAIL REFERENCE KEY (X/AXXX)
- COLUMN GRID NUMBER (1)
- PORTABLE FIRE EXTINGUISHER PER IFC 2018, 3-A 40-B C MIN.
- DOOR TYPE, RE: A500 / DOOR NUMBER REFERENCE KEY (A / 3)
- ELEVATION KEY (1/A200)
- KEYED NOTE (A)
- WINDOW TYPE, RE: A500 (02)

WALL LEGEND:

- METAL BUILDING WITH 2-1/2" MTL. STUD FURING W/ 5/8" GYP. BD. W/ SPRAY FOAM INSULATION TO EXTEND TO DECK, UNLESS NOTED OTHERWISE.
- 6" MTL. STUDS @ 16" O.C., TO EXTEND TO DECK. RE: SECTIONS & FLOOR PLAN LEGEND FOR INSULATION & SHEATHING
- BRICK MASONRY W/ MASONRY TIES ON STRUCT. C.M.U.
- WINDOW FRAME & GLAZING
- INTERIOR PARTITION TO EXTEND TO BOTTOM OF CEILING, TO BE CONSTRUCTED OF 3-5/8" MTL. STUDS @ 16" O.C. W/ 5/8" SHEATHING, BOTH SIDES
- INTERIOR PARTITION TO EXTEND 12" ABOVE CEILING, TO BE CONSTRUCTED OF 3-5/8" MTL. STUDS @ 16" O.C. W/ R13 BATT. INSULATION & 5/8" WATER RESISTANT SHEATHING @ RESTROOM SIDE
- INTERIOR PARTITION TO EXTEND 12" ABOVE CEILING, TO BE CONSTRUCTED OF 2-1/2" MTL. STUDS @ 16" O.C. W/ R13 BATT. INSULATION & 5/8" WATER RESISTANT SHEATHING @ RESTROOM SIDE
- PARTIAL HEIGHT PARTITION WALL, RE: SECTIONS
- COOLER WALLS BY OTHER

KEYED NOTES:

1. ELECTRICAL EQUIPMENT. RE: ELEC.
2. PRE-FINISHED METAL DOWNSPOUT, TYP.
3. EXTENTS OF SIDEWALK, RE: A001 FOR MORE INFORMATION
4. STAGES ARE NOT RAISED PLATFORMS, TO BE LEVEL WITH FINISH FLOOR
5. EMPTY SHELL, FUTURE BUILD OUT.
6. 34" HIGH ACCESSIBLE COUNTER.
7. PARTIAL HEIGHT WALL, TYP. RE: SECTIONS



01 FLOOR PLAN
SCALE: 1/8" = 1'-0"

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SCALE: AS NOTED
PROJECT NUMBER:
DATE: JULY 06, 2022

FLOOR PLAN

SHEET NO.
A100

GENERAL NOTES:

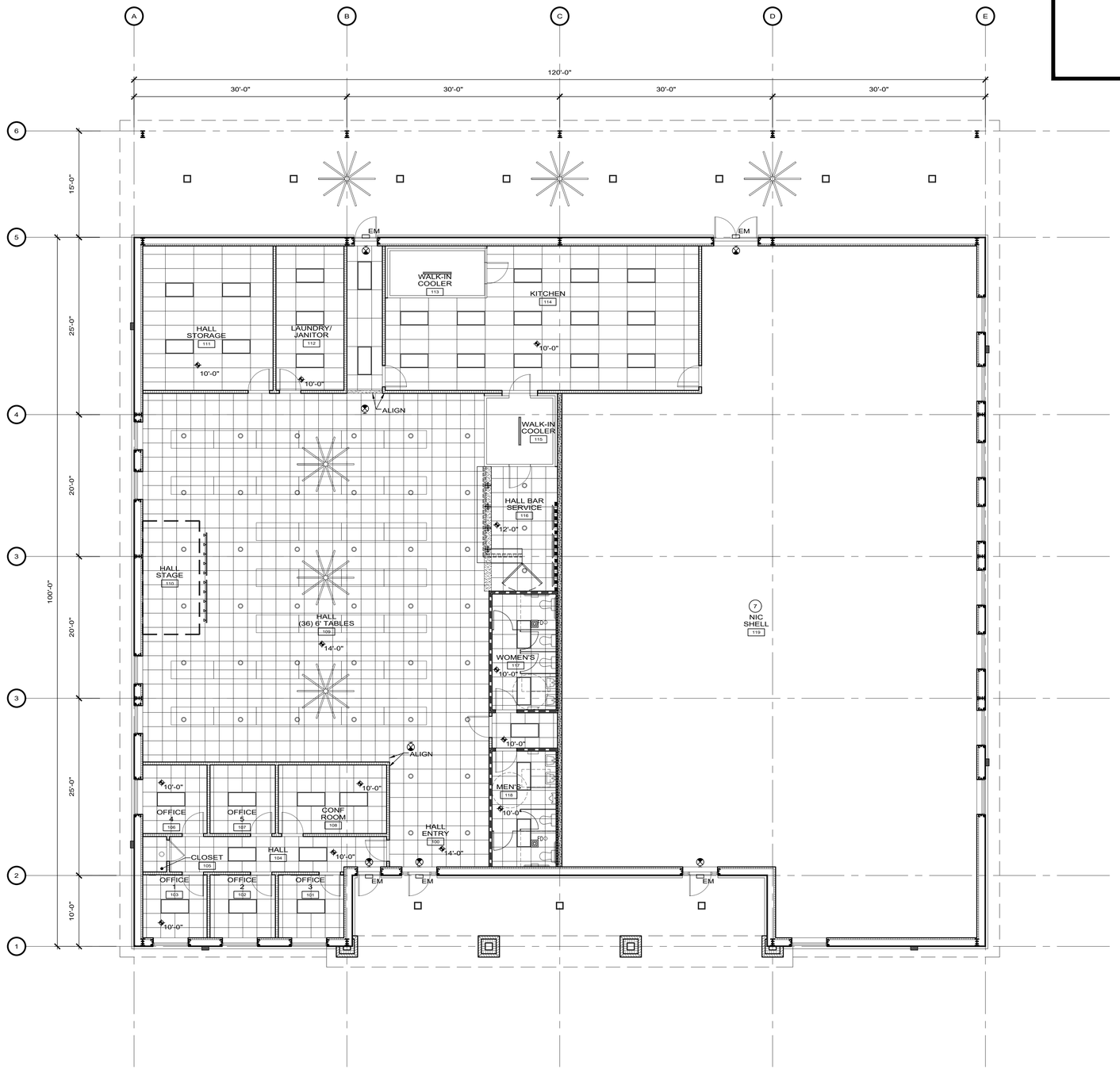
1. REFER TO FINISH SCHEDULE FOR FURTHER DEFINITION OF CEILING MATERIALS AND FINISHES.
2. ACOUSTIC CEILING TILE HEIGHT WILL TYPICALLY BE 10'-0" A.F.F. UNLESS OTHERWISE NOTED ON REFLECTED CEILING PLAN.
3. ALL PARTITIONS TO GO TO 6" ABOVE CEILING GRID UNLESS OTHERWISE NOTED ON FLOOR PLAN.
4. OWNER TO FURNISH EXTERIOR SIGNAGE & GC TO PROVIDE BLOCKING AND ELEC
5. REFER TO MECHANICAL DWGS. FOR LOCATIONS OF RETURN & SUPPLY VENTS.
6. (— — —) WALLS TO HAVE SOUND ATTENUATION INSULATION.
7. CEILINGS SHALL NOT BE USED FOR SUPPORTING ANY BUILDING INSULATION. ROOF CONSTRUCTION PROVIDES THE REQUIRED INSULATION VALUE.
8. CEILING LIGHTS ARE TO BE WIRED TO STRUCT. MEMBERS AT THE DIAGONAL CORNERS. DO NOT ATTACH CEILING COMPONENTS TO ROOF DECK.
9. ALL RETURN AIR GRILLES, SUPPLY DIFUSERS AND ACCESS PANELS TO BE FINISHED TO MATCH THE ADJACENT CEILING.
10. COORDINATE ALL MECHANICAL AND ELECTRICAL WITH MEP DRAWINGS.

KEYED NOTES:

1. FIXTURE IS TO BE CENTERED IN ROOM.
2. EQUIPMENT PLATFORM, ABOVE. RE: 2/A301
3. SLAT WALL LED COVE LIGHT, RE: 9/A300
4. CANTILEVER PLATFORM AT ACCESS LADDER. RE: 1/A302
5. PRE-FINISHED METAL PANELS TO FULLY BOX IN PERIMETER STRUCTURE. (PANELS SUPPLIED BY PEMB MANUF)
6. CEILING TO BE METAL PANEL SOFFIT (PANELS SUPPLIED BY PEMB MANUF)
7. SHELL SPACE, OPEN TO DECK

LEGEND:

- 2' x 4' LED LIGHT FIXTURE
- 24" X 24", 1" WHITE MTL. GRID W/ ARMSTRONG #704 CORTEGA CLASS A CLG. TILE, OR EQ. CERTAINTEED PRODUCT
- 4' LED VAPOR TIGHT FIXTURE
- GYP. BD. CEILING
- CEILING FAN
- WHITE TRACK LIGHT; RE: ELECT.
- DISCO BALL PROVIDED BY TENANT, RE: ELECTRICAL
- DIMMABLE LED STRIP; RE: ELECT.
- DIMMABLE LED RECESSED CAN FIXTURE
- LED EXTERIOR WALL PACK
- EXTERIOR LED SURFACE MOUNTED LIGHT FIXTURE
- LED SEMI-RECESSED CAN FIXTURE
- EM LED EMERGENCY EXIT LIGHTING, MOUNT AT 9'-0" TO BOTT. FIXTURE
- EXHAUST; RE: MECH.
- EXIT SIGN; RE: ELECT.
- DECORATIVE PENDANT



01 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

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SCALE: AS NOTED

PROJECT NUMBER:

DATE: JULY 06, 2022

REFLECTED CEILING PLAN

SHEET NO.
A110

FLOOR FINISH LEGEND:

F1
SEALED CONCRETE FINISHED FLOOR

F2
CARPET

F3
TILE

PROVIDE TRANSITION STRIP, ENSURE ADA COMPLIANCE

FD FLOOR DRAIN

WALL FINISH LEGEND:

WALL

W1 WALL TILE UP TO 5'
MFG:
TYPE & COLOR:
GROUT:

W2 GYPSUM BOARD (PAINTED)
MFG: USG
TYPE: 1/2"
COLOR:

W3 FRP TO CEILING, WITH 6" QUARRY TILE BASE
MFG:
TYPE & COLOR:

*AREAS WITH NO WALL FINISH TAG ARE TO BE PAINTED, W2

ALL FINISHES ARE SUBJECT TO CHANGE, UPON FINAL SELECTIONS BY TENANT

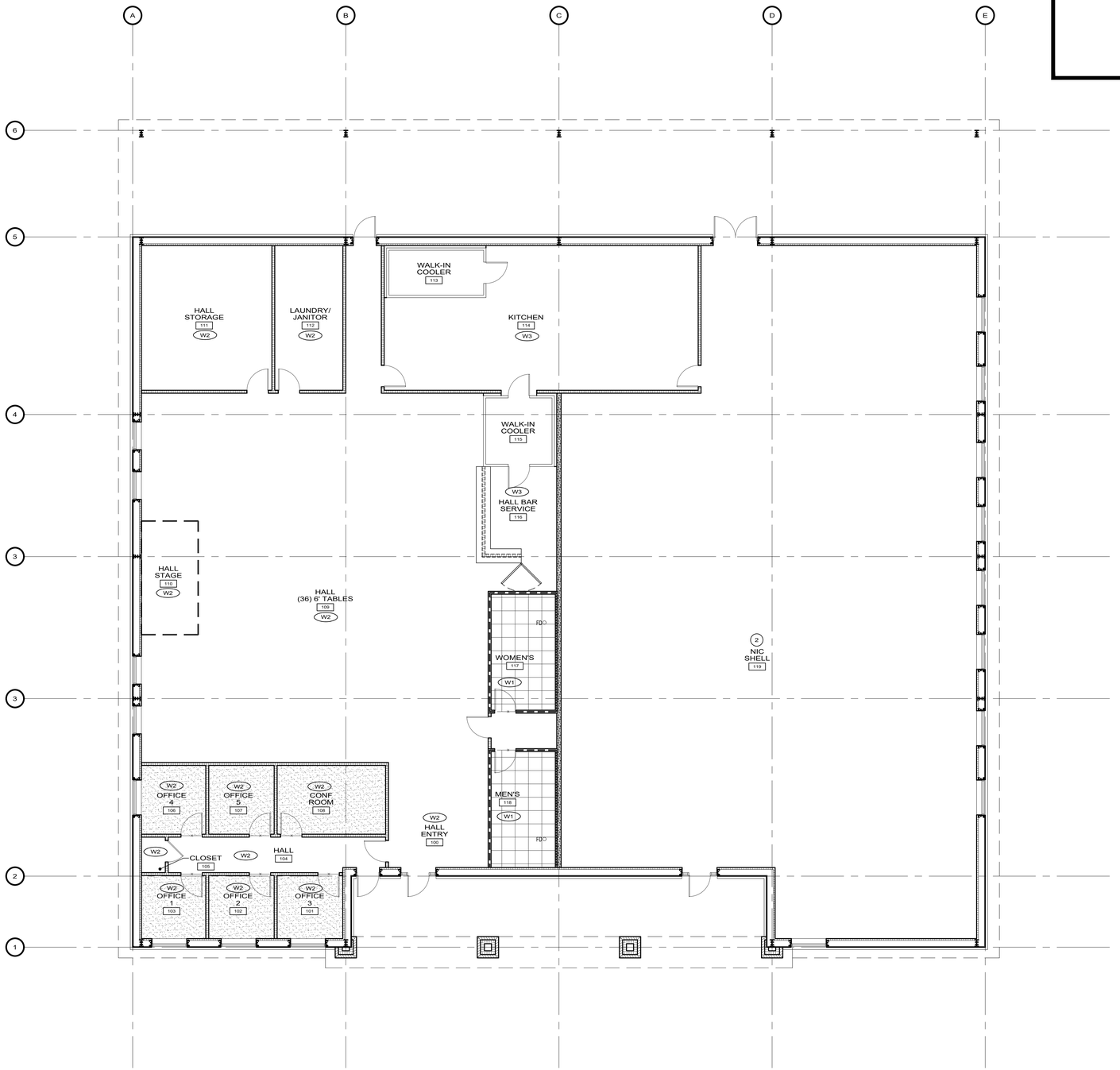
BASE

B1 4" RUBBER BASE
MFG:
TYPE:
COLOR:

*RUBBER BASE IS TO BE USED THROUGHOUT, TYP.

KEY NOTES:

1. SOUND ATTENUATION INSULATION, AS NOTED
2. EMPTY SHELL, NOT FINISHED



01 FINISH PLAN
SCALE: 1/8" = 1'-0"

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PROJECT NUMBER:
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FINISH PLAN

SHEET NO.
A120

ROOF DRAIN CALCULATIONS (IPC 2015)

Per Figure 1106.1 . . . . . 100 year (1) Hourly rainfall rate = 4.25"

Determining Roof Drainage G.P.M.
G.P.M. = .0104 x R x A
R = Rainfall Rate - Inch/hour
A = Roof Area - sq. ft.

Vertical Leader sizing, Per T.1106.3
(1) 4" Downspout will handle 192 G.P.M.

ROOF A:
G.P.M. = .0104 x 4.25" x 3,275 . . . . . 145 total G.P.M

145 G.P.M. / 192 G.P.M = 1 (4" Vertical Leaders Required)
1 (4" Vertical Leaders Provided)

ROOF B:
G.P.M. = .0104 x 4.25" x 164 . . . . . 8 total G.P.M

8 G.P.M. / 192 G.P.M = 1 (4" Vertical Leaders Required)
1 (4" Vertical Leaders Provided)

ROOF C:
G.P.M. = .0104 x 4.25" x 164 . . . . . 8 total G.P.M

8 G.P.M. / 192 G.P.M = 1 (4" Vertical Leaders Required)
1 (4" Vertical Leaders Provided)

ROOF D:
G.P.M. = .0104 x 4.25" x 3,275. . . . . 145 total G.P.M

145 G.P.M. / 192 G.P.M = 1 (4" Vertical Leaders Required)
1 (4" Vertical Leaders Provided)

ROOF E:
G.P.M. = .0104 x 4.25" x 7,626. . . . . 337 total G.P.M

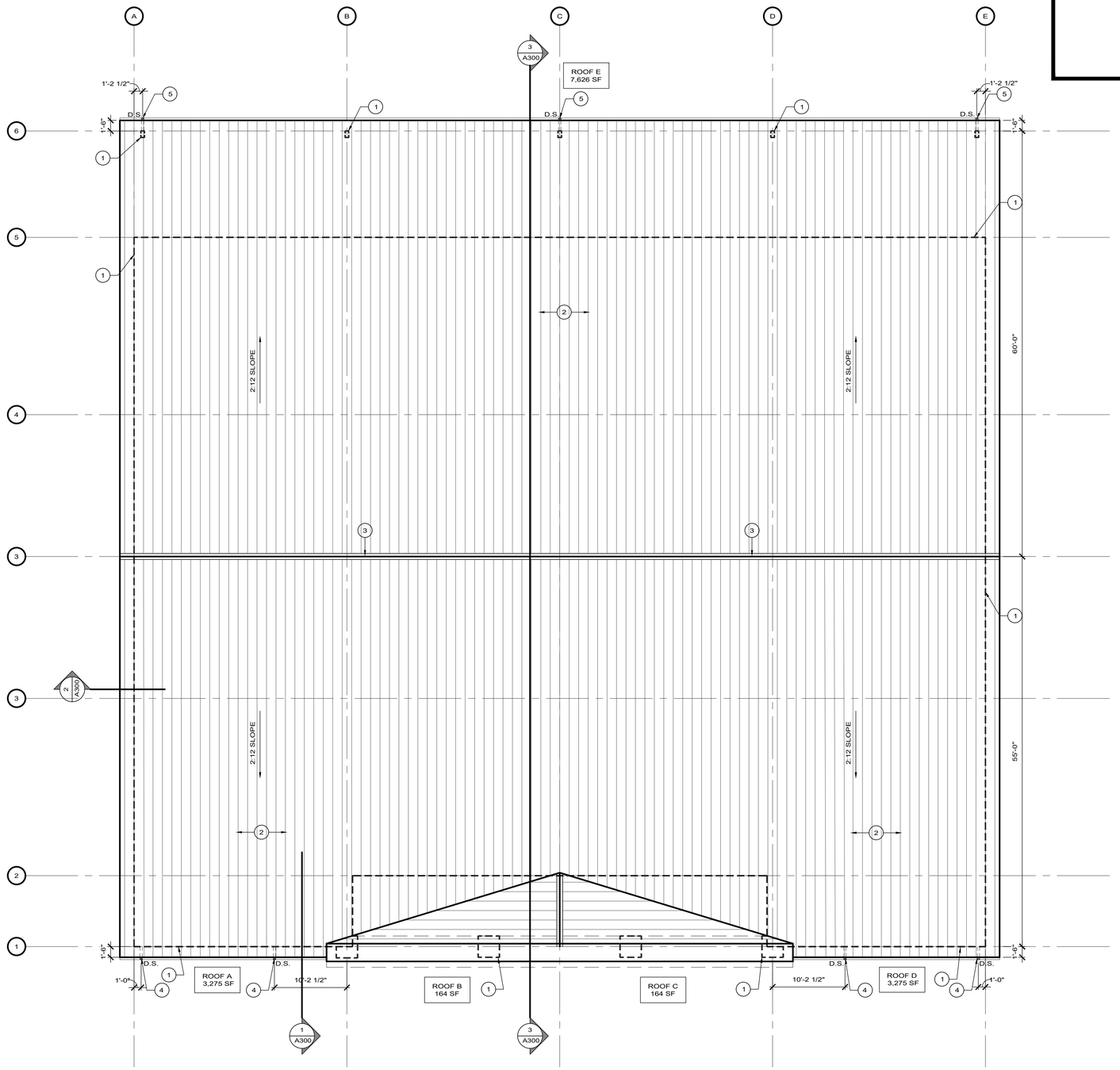
337 G.P.M. / 192 G.P.M = 2 (4" Vertical Leaders Required)
3 (4" Vertical Leaders Provided)

GENERAL NOTES:

1. THE BUILDING ROOF SYSTEM WILL BE APART OF THE PRE-ENGINEERED METAL BUILDING (PEMB). RE: METAL BUILDING DRAWING SET
2. ALL DOWNSPOUTS ARE TO BE PLACED PER ERECTION PLANS. ALL GUTTERS AND RAKE TRIM TO BE PRE-FINISHED "RED".
3. ALL ROOF PENETRATIONS ARE TO BE PERFORMED BY ROOFING SYSTEM MFG'S APPROVED INSTALLER IN ORDER NOT TO VOID ROOF WARRANTY.
4. ALL PIPES, VENTS AND ELECTRICAL PENETRATIONS TO BE FLASHED IN ACCORDANCE W/ ROOF SYSTEM STANDARD DETAILS BY ROOF WARRANTY CONTRACTOR. COORDINATE SIZE OF OPENINGS WITH MANUFACTURER'S REQUIREMENT. RE: MEP DRAWINGS

KEY NOTES:

1. DASHED LINE INDICATES FINISHED FACE, BEYOND
2. PRE-FINISHED STANDING SEAM METAL ROOF SYSTEM, SLOPE AS NOTED
3. CONT. RIDGE VENT, TYP @ ALL RIDGES
4. PRE-FINISHED ALUMINUM GUTTER & DOWN SPOUT DIMENSION FROM OUTSIDE FACE OF STUD
5. 4" PRE-FINISHED ALUMINUM DOWN SPOUT TO BE CENTERED ON COLUMN, TYP.



01 ROOF PLAN
SCALE: 1/8" = 1'-0"

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SCALE: AS NOTED
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ROOF PLAN

SHEET NO.
A140

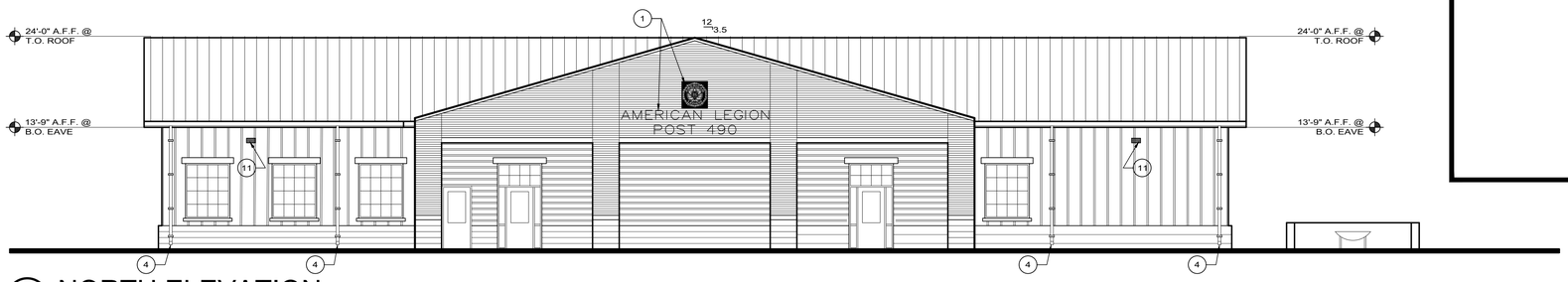
FINISH SCHEDULE (ELEVATIONS)

	FINISH SELECTION
PT-1	SHERWIN WILLIAMS TO BE DETERMINED
BRK-1	SHERWINN WILLIAMS SW7633 TAUPE TONE
CMU-1	VENEER STONE AS SELECTED BY GC
SF-1	ANODIZED ALUMINUM STOREFRONT
MTL-1	BERRIDGE ZEE-LOCK PANEL STANDING SEAM METAL ROOF
FC-1	VERTICAL METAL PANELS, TYPE A
FC-2	HORIZONTAL METAL PANELS, TYPE B

NOTE
ALL ITEMS MOUNTED ON THE EXTERIOR WALLS OF THE BUILDING ARE TO BE PAINTED, INCLUDING BUT NOT LIMITED TO: H.M. DOORS, ELECTRICAL PANELS & GEAR.

KEY NOTES (ELEVATIONS)

1. TENANT SIGNS OR ARTWORK FOR REFERENCE ONLY, TO BE PROVIDED BY TENANT, RE: ELEC.
2. ELECTRICAL EQUIPMENT, RE: ELEC.
3. WALL PACK FIXTURE, BOTTOM AT 12'-0", CONFIRM MOUNTING HEIGHT AND ORIENTATION W/ CONTRACTOR, RE: ELEC.
4. PRE- FINISHED METAL GUTTER & DOWNSPOUT W/ (4) 2" EVENLY SPACED STRAPS (COLOR TO MATCH ADJACENT WALL COLOR)
5. TELEPHONE/CABLE, RE: ELEC.



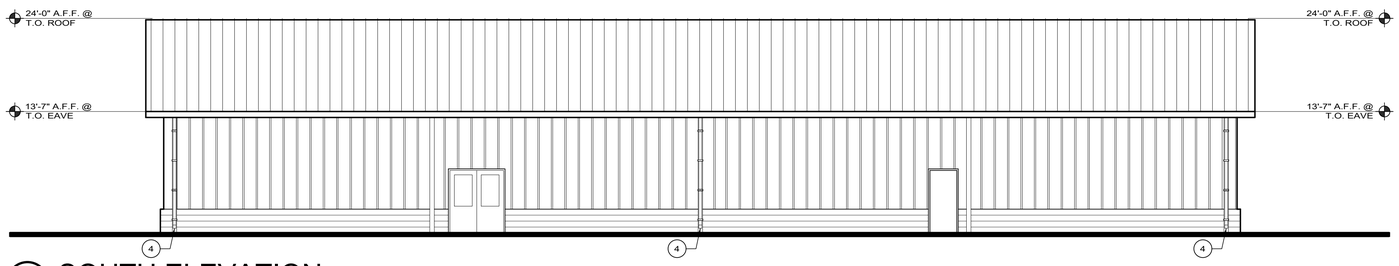
04 NORTH ELEVATION
SCALE: 1/8" = 1'-0"



03 EAST ELEVATION
SCALE: 1/8" = 1'-0"



02 WEST ELEVATION
SCALE: 1/8" = 1'-0"



01 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"

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REGISTERED ARCHITECT
JOHN A. DUERR
17528
STATE OF TEXAS

Date: 07/06/2022

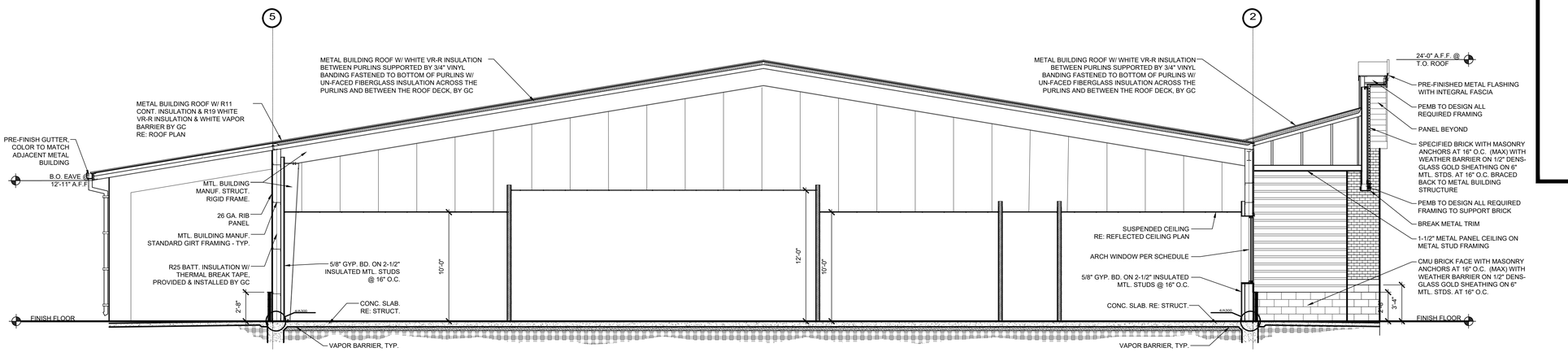
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AMERICAN LEGION
POST #490
11702 GALVESTON RD
HOUSTON, TX 77034

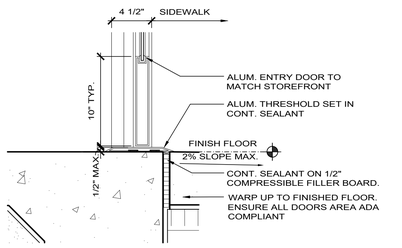
SCALE: AS NOTED
PROJECT NUMBER:
DATE: JULY 06, 2022

EXTERIOR ELEVATIONS

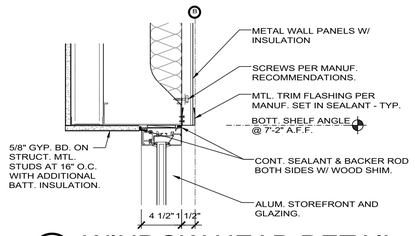
SHEET NO.
A200



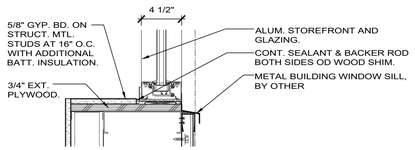
3 SECTION
SCALE: 3/16"=1'-0"



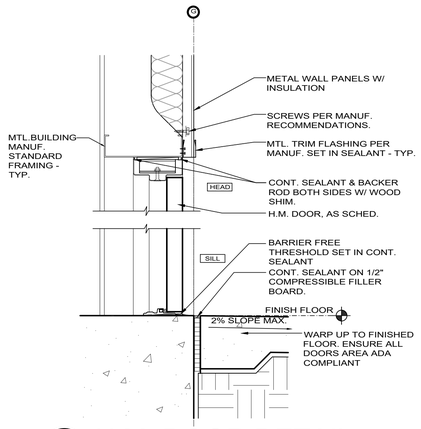
8 DOOR SILL DETAIL
SCALE:3"=1'-0"



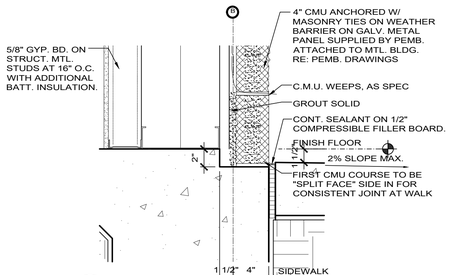
6 WINDOW HEAD DETAIL
SCALE:3"=1'-0"



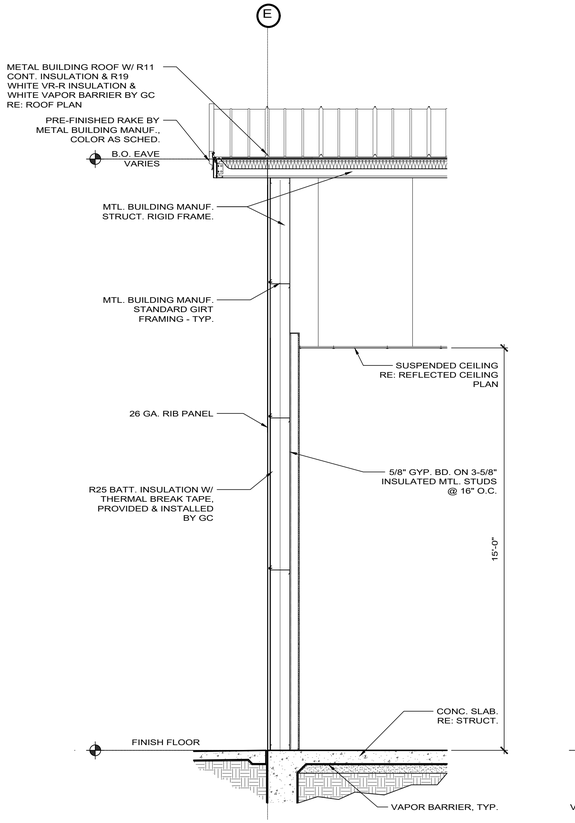
5 WINDOW SILL DETAIL
SCALE:3"=1'-0"



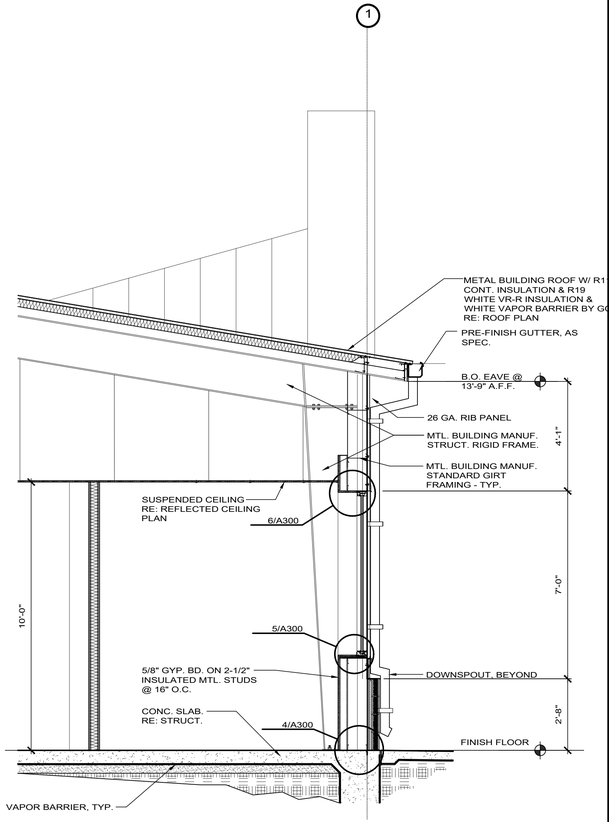
7 H.M. DOOR DETAIL
SCALE:3"=1'-0"



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



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



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

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REGISTERED ARCHITECT JOHN A. DUERR 17529 STATE OF TEXAS

Date: 07/06/2022

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SCALE: AS NOTED
PROJECT NUMBER:
DATE: JULY 06, 2022

SECTIONS

SHEET NO.
A300

EQUIPMENT & ACCESSORY SCHEDULE

#	DESCRIPTION	MANUF. / MODEL	RESPONSIBILITY: OWNER OWNER	OWNER GC INST	GC GC
A	SOAP DISPENSER	BOBRICK / B-2111 SURFACE MOUNT			X
B	TOWEL DISPENSER	BOBRICK / B-359 RECESSED			X
C	SANITARY NAPKIN DISPENSER	BOBRICK /			X
D	MIRROR	BOBRICK / 3024 CHANNEL FRAMED			X
E	GRAB BAR	BOBRICK / B-5806.99 X 36			X
F	TOILET	RE: PLUMB.			X
G	TOILET TISSUE DISPENSER	BOBRICK / B-699 RECESSED			X
H	PIPE GUARD	TRUEBRO / LAV GUARD 2			X
J	RR SINK	RE: PLUMB.			X
K	GRAB BAR	BOBRICK / B-5806.99 X 42			X
L	RR FAUCET ASSEMBLY	RE: PLUMB.			X
N	URINAL	RE: PLUMB. (LEVER MAX. HT. 44")			X

GENERAL NOTES

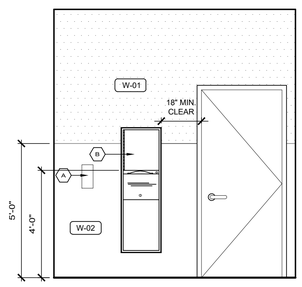
1. INSTALL WOOD BLOCKING IN RESTROOM WALLS AT ALL WALL MOUNTED FIXTURES.
2. ALL WALLS ARE TO BE PAINTED, UNLESS NOTED OTHERWISE

7 TYP RR
SCALE: 3/8" = 1'-0"

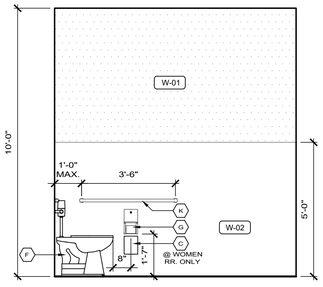
5 RR TYPICAL
SCALE: 3/8" = 1'-0"

RM. 117

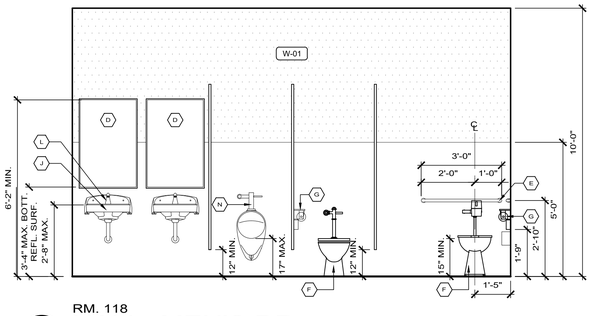
3 HALL- WOMEN'S RR
SCALE: 3/8" = 1'-0"



6 TYP RR
SCALE: 3/8" = 1'-0"

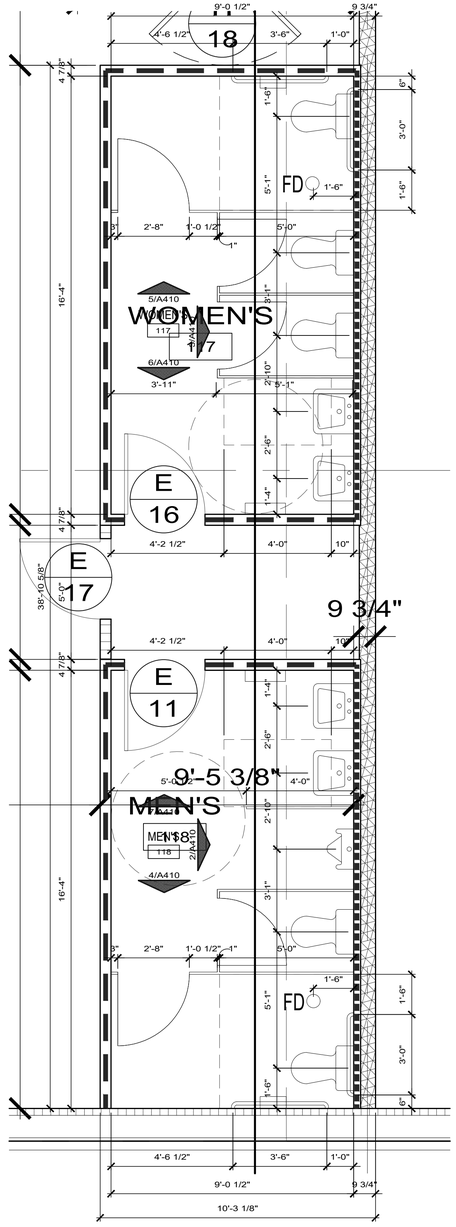


4 RR TYPICAL
SCALE: 3/8" = 1'-0"



RM. 118

2 HALL- MEN'S RR
SCALE: 3/8" = 1'-0"



1 RESTROOM FLOOR PLAN
SCALE: 3/8" = 1'-0"

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POST #490
11702 GALVESTON RD
HOUSTON, TX 77034

SCALE: AS NOTED

PROJECT NUMBER:

DATE: JULY 06, 2022

INTERIOR ELEVATIONS

SHEET NO.
A410

DOOR SCHEDULE

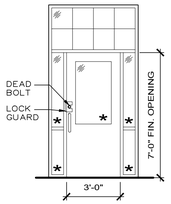
DOOR NUMBER	DOOR TYPE	HEAD	SILL	JAMB
1,13	A	-	-	-

DOOR HARDWARE:

MORTISE LOCK - 1 EA. 1E74 - BEST

REMAINING HARDWARE BY DOOR SUPPLIER.

OCCUPIED/UNOCCUPIED THUMB TURN DEAD BOLT



3'-0"X 8'-0" ENTRY/ EXIT DOOR W/ TEMPERED GLASS AND ALUMINUM STOREFRONT FRAME.

* DENOTES TEMPERED GLASS.

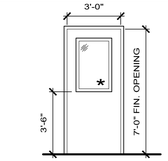
DOOR NUMBER	DOOR TYPE	HEAD	SILL	JAMB
2	B	-	-	-

DOOR HARDWARE:

COORDINATE HARDWARE REQUIREMENTS WITH TENANT/ OWNER.

NOTE:

MAXIMUM HEIGHT OF BOTTOM OF GLAZED PANEL VISION LIGHT TO BE A 43" ABOVE FINISH FLOOR.



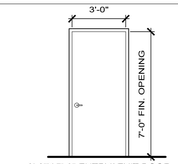
3'-0"X 7'-0" ENTRY/ EXIT DOOR W/ TEMPERED GLASS AND ALUMINUM STOREFRONT FRAME.

* DENOTES TEMPERED GLASS.

DOOR NUMBER	DOOR TYPE	HEAD	SILL	JAMB
30	C	-	-	-

DOOR HARDWARE:

COORDINATE HARDWARE REQUIREMENTS WITH TENANT/ OWNER.



3'-0"X 7'-0" ENTRY/ EXIT DOOR

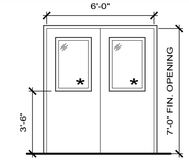
DOOR NUMBER	DOOR TYPE	HEAD	SILL	JAMB
23	D	-	-	-

DOOR HARDWARE:

COORDINATE HARDWARE REQUIREMENTS WITH TENANT/ OWNER.

NOTE:

MAXIMUM HEIGHT OF BOTTOM OF GLAZED PANEL VISION LIGHT TO BE A 43" ABOVE FINISH FLOOR.



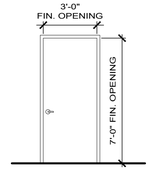
6'-0"X 7'-0" DOUBLE ENTRY/ EXIT DOOR W/ TEMPERED GLASS AND ALUMINUM STOREFRONT FRAME.

* DENOTES TEMPERED GLASS.

DOOR NUMBER	DOOR TYPE	HEAD	SILL	JAMB
3-12,14-17, 22,28,29	E	-	-	-

DOOR HARDWARE:

COORDINATE HARDWARE REQUIREMENTS WITH TENANT/ OWNER.

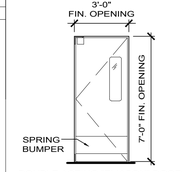


PRE-FINISHED SOLID CORE WOOD DOOR W/ ALUMINUM FRAME
RE: PLAN FOR SWING
*NON-STANDARD PLASTIC LAMINATE COLOR. COORDINATE FINISHES WITH OWNER

DOOR NUMBER	DOOR TYPE	HEAD	SILL	JAMB
24,27	F	-	-	-

DOOR HARDWARE:

COORDINATE HARDWARE REQUIREMENTS WITH TENANT/ OWNER.

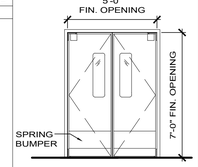


DOUBLE ACTING "ELIASON" DOOR W/ 3090 ALUMINUM FRAME

DOOR NUMBER	DOOR TYPE	HEAD	SILL	JAMB
20	G	-	-	-

DOOR HARDWARE:

COORDINATE HARDWARE REQUIREMENTS WITH TENANT/ OWNER.



DOUBLE ACTING "ELIASON" DOOR W/ 3090 ALUMINUM FRAME

DOOR NUMBER	DOOR TYPE	HEAD	SILL	JAMB
18,21	H	-	-	-

DOOR & DOOR HARDWARE:

EMPLOYEE PASS THRU SYSTEM WITH SWING, OPEN TOP

DOOR NUMBER	DOOR TYPE	HEAD	SILL	JAMB
19,25,26	I	-	-	-

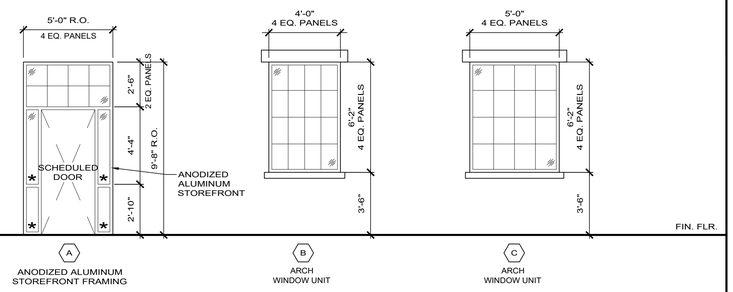
DOOR & DOOR HARDWARE:

COOLER DOOR, BY OTHER

DOOR NOTES:

1. SLIDING DOORS, FOLDING DOORS AND INTERIOR HINGED DOORS SHALL NOT REQUIRE A FORCE EXCEEDING FIVE LBF.
2. OPERATING DEVICES ON ACCESSIBLE DOORS SHALL BE NO HIGHER THAN 48" A.F.F.
3. EXTERIOR HINGED DOOR SHALL NOT EXCEED 8.5 L.B.F.
4. THE HEIGHT OF ANY DOOR LEVEL CHANGE PLUS THE HEIGHT OF ANY APPLIED THRESHOLD AT DOORWAY SILLS SHALL NOT EXCEED 1/2" AND SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.
5. ALL EXTERIOR HOLLOW METAL DOORS TO BE 16 GA. GALV. INSULATED IN 16 GA. GALV. HOLLOW METAL FRAME. UNLESS NOTED OTHERWISE.
6. ALL INTERIOR HOLLOW METAL DOORS TO BE 18 GA. GALV. IN 16 GA. GALV. WELDED HOLLOW METAL FRAME. UNLESS NOTED OTHERWISE.

WINDOW SCHEDULE



WINDOW NOTES:

1. ALL EXTERIOR GLAZING TO BE 1" LOW-E INSULATED GLASS WITH ALUMINUM FRAMES, SHGC = 0.23 OR BETTER AND VISUAL TRANSMITTANCE OF 0.51 OR BETTER.
2. ALL INTERIOR GLAZING TO BE 1/4" FLOAT GLASS, CLEAR.
3. GLAZING " " TO BE TEMPERED.
4. RE: A100 FLOOR PLAN FOR WINDOW TAGS

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POST #490
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HOUSTON, TX 77034

SCALE: AS NOTED

PROJECT NUMBER:

DATE: JULY 06, 2022

DETAILS

SHEET NO.

A500

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL SIZES, LOCATIONS, AND ELEVATIONS NECESSARY TO COMPLETE THE WORK SHOWN ON THE DRAWINGS PRIOR TO SUBMITTING PROPOSAL. FAILURE TO DO SO SHALL NOT RELIEVE THIS CONTRACTOR FROM PERFORMING THE WORK REQUIRED UNDER THIS CONTRACT. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE OWNER / ENGINEER.

2. SOME UTILITIES MAY NOT BE SHOWN ON THE PLANS. FIELD VERIFY AND IDENTIFY LOCATIONS OF PIPING AND ALL UTILITIES NOT NOTED ON THE PLANS. NOTIFY THE OWNER / ENGINEER OF ANY POTENTIAL CONFLICTS PRIOR TO STARTING CONSTRUCTION.

3. ALL GENERAL AND SUB-CONTRACTORS ARE ENCOURAGED TO VISIT AND INSPECT THE SITE PRIOR TO SUBMITTING A PROPOSAL TO COMPLETE.

4. UTILITIES PRESENTED ON THESE DRAWINGS ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS IN THE FIELD PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR SHALL NOTIFY TEXAS ONE CALL AT 713-223-4567 \ 800-245-4545 AND LONE STAR ONE CALL AT 800-669-8344 AT LEAST 48 HOURS BEFORE PROCEEDING WITH ANY WORK ON SITE.

5. CONSTRUCT WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE AND STREET PAVING IN ACCORDANCE WITH THE LATEST EDITION OF THE PUBLICATIONS STANDARD CONSTRUCTION SPECIFICATIONS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE, AND STREET PAVING PUBLISHED BY THE LOCAL GOVERNING ENTITY.

6. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO EXISTING WATER, WASTEWATER, STORM WATER LINES, TRAFFIC CONTROL DEVICES AND PAVING. DAMAGES SHALL BE REPAIRED IN ACCORDANCE WITH THE LOCAL GOVERNING ENTITY'S ENGINEERING STANDARD CONSTRUCTION SPECIFICATIONS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE, AND STREET PAVING AND STANDARD CONSTRUCTION DETAILS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE, AND STREET PAVING, REFERENCED ABOVE, AT NO ADDITIONAL COST.

7. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION, AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO EXISTING CONDITIONS OR BETTER.

8. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT ROOT SYSTEMS OF SHRUBS, PLANTS AND TREES ALONG THE AREA OF EXCAVATION.

9. CONTRACTOR SHALL COMPLY WITH THE LATEST EDITION OF OSHA REGULATIONS AND THE STATE OF TEXAS LAWS CONCERNING EXCAVATION.

10. CONTRACTOR SHALL MAINTAIN A SET OF REDLINE DRAWINGS RECORDING AS-BUILT CONDITIONS DURING CONSTRUCTION. THESE REDLINE MARKED DRAWINGS WILL BE SUBMITTED TO THE DESIGN CONSULTANT WHO WILL MAKE THE CHANGES ON THE ORIGINAL DRAWINGS, LABELING EACH SHEET IN THE SET AS "RECORD DRAWINGS".

11. ALL "ACCESSIBLE" ROUTS, SIDEWALKS, RAMPS, ETC SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST TEXAS ACCESSIBILITY STANDARDS.

SITEWORK GENERAL NOTES

1. CLEAR AND GRUB WITHIN THE GRADING LIMITS SHOWN IN THE CIVIL DRAWINGS. REMOVE STUMPS AND ROOTS 3 INCHES IN DIAMETER AND LARGER AND NON-PERISHABLE SOLID OBJECTS A MINIMUM 3 FEET BELOW SUBGRADE OR FINISHED EMBANKMENT.

2. STRIP AND STOCKPILE TOPSOIL TO A MINIMUM DEPTH OF 6" WITHIN THE LIMITS OF EARTHWORK OPERATIONS.

3. STRUCTURAL EXCAVATION: EXCAVATE TO INDICATED ELEVATIONS WITHIN A TOLERANCE OF 1 INCH. EXTEND EXCAVATIONS A SUFFICIENT DISTANCE FROM STRUCTURES FOR PLACING AND REMOVING CONCRETE FORM WORK AND FOR INSPECTIONS.

4. SIDEWALK AND PAVEMENT EXCAVATION: EXCAVATE SURFACES UNDER WALKS AND PAVEMENTS TO THE INDICATED LINES, CROSS SECTIONS, ELEVATIONS AND SUBGRADES.

5. PROOF-ROLL SUBGRADE BELOW THE BUILDING SLABS AND PAVEMENTS WITH A PNEUMATIC-TIRED FULLY LOADED DUMP TRUCK TO IDENTIFY SOFT POCKETS AND AREAS OF EXCESS YIELDING. DO NOT PROOF-ROLL WET OR SATURATED SUBGRADES.

6. FILL MATERIAL APPROVED FROM ON SITE AND OFF SITE SOURCES SHALL HAVE BE GW, GP, GM SE, SP, AND SM ACCORDING TO ASTM D2487 OR A COMBINATION OF THESE GROUPS. FILL MATERIAL SHALL BE FREE OF ROCK OR GRAVEL LARGER THAN 3 INCHES IN ANY DIMENSIONS, DEBRIS, WASTE FROZEN MATERIALS, VEGETATION AND OTHER DELETERIOUS MATTER. FILL MATERIAL SHALL HAVE A MAXIMUM PLASTICITY INDEX OF 6, AND A MAXIMUM LIQUID LIMIT OF 30 OR AS APPROVED BY THE ENGINEER.

7. PLACE BACKFILL AND FILL SOIL MATERIALS IN LAYERS NOT MORE THAN 8 INCHES IN LOOSE DEPTH. PLACE BACKFILL AND FILL SOIL MATERIALS EVENLY ON ALL SIDES OF STRUCTURES TO REQUIRED ELEVATIONS AND UNIFORMLY ALONG THE FULL LENGTH OF EACH STRUCTURE. COMPACT SOIL MATERIALS TO NOT LESS THAN THE FOLLOWING PERCENTAGES OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D698:

   A. UNDER STRUCTURES: SCARIFY AND RE COMPACT TOP 12 INCHES OF EXISTING SUBGRADE AND EACH LAYER OF BACKFILL MATERIAL TO 95% SPD.

   B. UNDER WALKWAYS: SCARIFY AND RE-COMPACT TOP 6 INCHES BELOW SUBGRADE AND COMPACT EACH LAYER OF BACKFILL MATERIAL TO 95% SPD.

   C. UNDER TURF OR UNPAVED AREAS: SCARIFY AND RE COMPACT TOP 6" BELOW SUBGRADE AND COMPACT EACH LAYER OF BACKFILL MATERIAL TO 90% SPD.

   D. UTILITY TRENCHES: BACKFILL SHALL BE IN 8" LIFTS, WITH TESTS TAKEN AT 100 FOOT INTERVALS ON EACH LIFT, AND MECHANICALLY COMPACTED TO A DENSITY OF NOT LESS THAN 95% SPD IN PAVED AREAS AND 90% SPD IN UNPAVED AREAS OR AS INDICATED IN THE DRAWINGS.

8. UNIFORMLY GRADE AREAS TO A SMOOTH SURFACE, FREE OF IRREGULAR SURFACE CHANGES. COMPLY WITH COMPACTION REQUIREMENTS AND GRADE TO CROSS SECTIONS, LINES AND ELEVATIONS INDICATED. FINISH SUBGRADES TO ELEVATIONS REQUIRED TO ACHIEVE INDICATED FINISH ELEVATIONS, WITHIN THE FOLLOWING SUBGRADE TOLERANCES:

   A. TURF OR UNPAVED AREAS: ±1 INCH.
   B. WALKS:±1/2 INCH.
   C. PAVEMENTS:±1/2 INCH.

9. PLACE SUBGRADE COURSE UNDER PAVEMENTS AND WALKS AS INDICATED IN THE DRAWINGS.

STORM SEWER CONSTRUCTION NOTES

1. STORM SEWERS LOCATED ON PRIVATE PROPERTY SHALL BE AS CALLED OUT IN THE DRAWINGS AND SHALL BE INSTALLED, BEDDED, AND BACKFILLED IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.

2. STORM SEWERS LOCATED WITHIN PUBLIC R.O.W. OR SIDE LOT EASEMENTS SHALL BE REINFORCED CONCRETE PIPE (24-INCH AND LARGER) (C-76, CLASS III). AND SHALL BE INSTALLED, BEDDED, AND BACKFILLED IN ACCORDANCE WITH THE GOVERNING ENTITIES STANDARD DETAILS AND SPECIFICATIONS. UNLESS OTHERWISE SHOWN ON THE DRAWINGS.

3. ALL SEWER UNDER PROPOSED OR FUTURE PAVEMENT AND TO A POINT ONE FOOT BACK OF ALL PROPOSED OR FUTURE CURBS SHALL BE BACKFILLED WITH 1-1/2 SACK CEMENT/C.Y. STABILIZED SAND TO WITHIN ONE (1) FOOT OF SUBGRADE. THE REMAINING DEPTH OF TRENCH SHALL BE BACKFILLED WITH SUITABLE EARTH MATERIAL.

4. CIRCULAR AND ELLIPTICAL REINFORCED CONCRETE PIPE SHALL BE INSTALLED USING RUBBER GASKET JOINTS CONFORMING TO ASTM C443 AND ASTM C877 RESPECTIVELY.

5. ALL PROPOSED PIPE STUB-OUTS FROM MANHOLES AND INLETS ARE TO BE PLUGGED WITH 8" BRICK WALLS UNLESS OTHERWISE NOTED.

6. CONTRACTOR SHALL PROVIDE 18" MINIMUM CLEARANCE AT STORM SEWER AND WATER LINE CROSSINGS.

7. ADJUST MANHOLE COVERS TO GRADE CONFORMING TO REQUIREMENTS OF LOCAL GOVERNING ENTITY STANDARDS AND SPECIFICATIONS FOR ADJUSTING MANHOLES, INLETS AND VALVE BOXES TO GRADE.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, MAINTAINING, AND RESTORING ANY BACK SLOPE DRAINAGE SYSTEM DISTURBED AS A RESULT OF HIS WORK.

9. ALL DITCHES SHALL BE REGRADED TO PROPOSED ELEVATIONS TO INSURE PROPER DRAINAGE. ALL OUTFALLS SHALL BE PROPERLY BACKFILLED AND COMPACTED. ALL DISTURBED AREAS SHALL BE REGRADED, SEEDED, AND FERTILIZED.

SANITARY SEWER NOTES

1. ALL SEWERS SHALL BE TESTED FOR EXCESS DEFLECTION IN PIPE CROSS SECTION, FOR LATERAL AND VERTICAL PIPE OBSTRUCTION, AND FOR JOINT OFFSETS, BY PULLING A MANDREL THROUGH THE PIPE BY HAND. THE MANDREL SHALL HAVE A DIAMETER EQUAL TO 95% OF THE INSIDE DIAMETER OF THE PIPE. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILLING HAS BEEN IN PLACE AT LEAST 30 DAYS NO PIPE SHALL EXCEED A DEFLECTION OF 5%. OBSTRUCTIONS ENCOUNTERED SHALL BE REPAIRED AT NO ADDITIONAL COST TO OWNER. MANDREL AND TEST EQUIPMENT SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONDUCTING THE TEST.

2. USE BEDDING AND BACKFILL PER DETAILS PROVIDED IN THE CONTRACT DRAWINGS UNLESS FIELD CONDITIONS DICTATE OTHERWISE. CONTRACTOR TO NOTIFY ENGINEER OF WET TRENCH CONDITIONS PRIOR TO LAYING PIPE. USE CEMENT STABILIZED SAND AND BACKFILL TO WITHIN 1 FOOT OF PROPOSED OR EXISTING PAVEMENT. SUBGRADE, BEDDING, CEMENT STABILIZED SAND AND/OR BACKFILL SHALL BE CONSIDERED SUBSIDIARY TO THE PAY ITEM FOR PIPE AND SHALL NOT BE PAID FOR DIRECTLY.

3. UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 24 INCHES OF VERTICAL CLEARANCE AND 9 FEET HORIZONTAL CLEARANCE BETWEEN SANITARY SEWER AND WATER LINES. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 12 INCHES OF VERTICAL AND HORIZONTAL CLEARANCE BETWEEN SANITARY SEWER AND STORM SEWER LINES.

4. SANITARY SEWER MANHOLE RIMS OUTSIDE OF PROPOSED PAVING WILL BE SET 3" TO 6" ABOVE THE SURROUNDING LEVEL FINISHED GRADE AFTER PAVING WITH SLOPED BACKFILL ADDED FOR STORM WATER DRAINAGE AWAY FROM THE MANHOLE RIM PER ASTM F477.

5. UNLESS OTHERWISE NOTED, ALL SANITARY SEWERS SHALL BE CONSTRUCTED OF POLYVINYL CHLORIDE PIPE (PVC) SCH 40, CONFORMING TO ASTM D1785, OR APPROVED EQUAL. ALL SANITARY SEWERS SHALL HAVE RUBBER GASKET BELL AND SPIGOT CONNECTIONS.

6. UNLESS OTHERWISE NOTED, ALL SANITARY SEWER MANHOLES SHALL BE PRECAST CONCRETE MANHOLES.

7. NO CONNECTIONS SHALL BE MADE TO EXISTING SANITARY SEWER LINES UNTIL ALL PROPOSED SEWER LINES HAVE BEEN THOROUGHLY CLEANED, TESTED AND APPROVED BY THE LOCAL GOVERNING ENTITY.

8. WHENEVER THE MANHOLE COVERS ARE LOCATED BELOW THE 100 YEAR FLOOD PLAIN ELEVATION THEY SHALL BE GASKETED AND BOLTED AS DESCRIBED IN 3172.2 OF THE TEXAS NATURAL RESOURCE CONSERVATION COMMISSION RULES.

9. LOW-PRESSURE AIR TEST. THIS TEST SHALL CONFORM TO THE PROCEDURE DESCRIBED IN ASTM C-828, ASTM C-924 OR OTHER APPROPRIATE PROCEDURES. FOR SAFETY REASONS, AIR TESTING OF SECTIONS OF PIPE SHALL BE LIMITED TO LINES LESS THAN 36-INCH AVERAGE INSIDE DIAMETER. LINES 36-INCH AVERAGE INSIDE DIAMETER AND LARGER MAY BE AIR TESTED AT EACH JOINT. THE MINIMUM TIME ALLOWABLE FOR THE PRESSURE TO DROP FROM 3.5 POUNDS PER SQUARE INCH GAUGE TO 2.5 POUNDS PER SQUARE INCH GAUGE DURING A JOINT TEST, REGARDLESS OF PIPE SIZE, SHALL BE 20 SECONDS. FOR SECTION OF PIPE LESS THAN 36-INCH AVERAGE INSIDE DIAMETER, THE MINIMUM TIME ALLOWABLE FOR THE PRESSURE TO DROP FROM 3.5 POUNDS PER SQUARE INCH GAUGE TO 2.5 POUNDS PER SQUARE INCH GAUGE SHALL BE COMPUTED BY THE FOLLOWING EQUATIONS:

   T = 0.0850(D)(K)/(Q) WHERE T = TIME FOR PRESSURE TO DROP 1.0 POUNDS PER SQUARE INCH GAUGE IN SECONDS
   K = 0.000419(D)(L), BUT NOT LESS THAN 1.0
   D = AVERAGE INSIDE DIAMETER IN INCHES
   L = LENGTH OF LINE OF SAME PIPE SIZE IN FEET
   Q = RATE OF LOSS, ASSUME 0.0015 CU FT/MIN/SQ FT INTERNAL SURFACE

10. SDR-26 PVC PIPE TO USE "FULL BODIED" SDR-26 FITTINGS.

11. ALL PVC PIPE TO HAVE CELL CLASS 12454 A OR B AS PER ASTM D1784.

12. NO MORE THAN 2 HOURS SHALL ELAPSE BETWEEN MIXING AND PLACEMENT OF CEMENT STABILIZED SAND.

13. ALL BACKFILL SHALL BE COMPACTED TO A MINIMUM 95% SPD, ±2% OF OPTIMUM MOISTURE CONTENT, IN MAXIMUM 8-INCH LIFTS.

SWPPP CONSTRUCTION NOTES

1. CONTRACTOR SHALL IMPLEMENT INLET PROTECTION DEVICES AND REINFORCED FILTER FABRIC BARRIER ALONG THE ROAD AND SIDE DITCHES AT LOCATIONS SHOWN ON THE TYPICAL STORM WATER POLLUTION PREVENTION (SWPPP) PLANS TO KEEP SILT AND/OR EXCAVATIONS FROM ENTERING INTO THE STORM WATER INLETS AND DITCHES EVENTUALLY POLLUTING THE RECEIVING STORM SEWER.

2. DURING THE EXCAVATION PHASE OF THE PROJECT CONTRACTOR SHALL SCHEDULE THE WORK IN SHORT SEGMENTS SO THAT EXCAVATED MATERIAL CAN BE QUICKLY HAULED AWAY FROM THE SITE AND TO PREVENT IT FROM STAYING UNCOLLECTED ON THE EXISTING PAVEMENT. ANY LOOSE EXCAVATED MATERIAL WHICH FALLS ON PAVEMENTS OR DRIVEWAYS SHALL BE SWEPT BACK INTO THE EXCAVATED AREA.

3. CONTRACTOR SHALL CLEAN UP THE EXISTING STREET INTERSECTIONS AND DRIVEWAYS DAILY, AS NECESSARY TO REMOVE ANY EXCESS MUD, SILT OR ROCK, TRACKED FROM THE EXCAVATED AREA.

4. CONTRACTOR SHALL FOLLOW GOOD HOUSE KEEPING PRACTICES DURING THE CONSTRUCTION PHASE OF THE PROJECT ALWAYS CLEANING UP DIRT AND LOOSE MATERIAL AS CONSTRUCTION PROGRESSES.

5. CONTRACTOR IS TO INSPECT AND MAINTAIN THE AREAS LISTED BELOW AT LEAST ONCE EVERY 14 FOURTEEN CALENDAR DAYS AND WITHIN 24 HOURS OF A STORM EVENT OF 0.5-INCHES OR GREATER.

   -DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
   -AREAS USED FOR STORAGE THAT ARE EXPOSED TO PRECIPITATION.
   -STRUCTURAL CONTROL MEASURES.
   -LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.

6. CONTRACTOR TO BE RESPONSIBLE TO MAINTAIN EXISTING DITCHES AND/OR CULVERTS FOR UNOBSTRUCTED DRAINAGE AT ALL TIMES WHERE SODDING IS DISTURBED BY EXCAVATION OR BACKFILL OPERATIONS. SUCH AREAS SHALL BE REPLACED BY SEEDING OR SODDING. SLOPES 4:1 OR STEEPER SHALL BE REPLACED BY BLOCK SODDING.

TRAFFIC NOTES

1. CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH PART VI OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TEXAS MUTCD, MOST RECENT EDITION WITH REVISIONS) DURING CONSTRUCTION.

2. ALL TRAFFIC CLOSURES SHALL BE SCHEDULED IN ACCORDANCE WITH THE LOCAL GOVERNING ENTITIES APPROPRIATE HOURS.

3. NO LANES ON MAJOR THOROUGHFARES MAY BE BLOCKED FROM 6:00 AM TO 9:00 AM AND 4:00 PM TO 7:00 PM UNLESS APPROVED BY THE LOCAL GOVERNING ENTITY.

4. NO TRAFFIC LANES SHALL BE CLOSED IN ALL RESIDENTIAL AREAS FROM 7:00 PM TO 7:00 AM.

5. CONTRACTOR SHALL MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION DURING WORKING HOURS.

6. CONTRACTOR SHALL COVER OPEN EXCAVATIONS WITH STEEL PLATES ANCHORED PROPERLY DURING NON-WORKING HOURS AND OPEN THE LANES FOR NORMAL TRAFFIC FLOW.

7. OFF-DUTY UNIFORMED POLICE OFFICER(S)/FLAGGER(S) ARE REQUIRED TO DIRECT TRAFFIC WHEN THE LANES ARE BLOCKED.

8. IN THE EVEN THAT NO "TRAFFIC CONTROL PLANS" EXIST AS PART OF CONTRACT DRAWINGS. CONTRACTOR SHALL PREPARE PLANS AND SUBMIT TO THE LOCAL GOVERNING ENTITY FOR APPROVAL TEN DAYS PRIOR TO IMPLEMENTATION.

9. IF THE CONTRACTOR CHOOSES TO USE A DIFFERENT METHOD OF "TRAFFIC CONTROL PLANS" DURING THE CONSTRUCTION THAN WHAT IS OUTLINED IN THE CONTRACT DRAWINGS. HE/SHE SHALL BE RESPONSIBLE FOR PREPARING AND SUBMITTING AN ALTERNATE SET OF PLANS* TO THE LOCAL GOVERNING ENTITY FOR APPROVAL TEN WORKING DAYS PRIOR TO IMPLEMENTATION.

10. APPROVED COPIES OF THE TRAFFIC CONTROL PLANS AND REQUIRED PERMITS SHALL BE MADE AVAILABLE FOR INSPECTION AT THE JOB SITE AT ALL TIMES. CONTRACTORS MUST SECURE REQUIRED PERMITS FROM THE LOCAL GOVERNING ENTITY'S TRAFFIC MANAGEMENT AND MAINTENANCE BRANCH BEFORE CLOSING A LANE/SIDEWALK. THE REQUEST MUST BE MADE AT LEAST 10 DAYS IN ADVANCE OF THE CLOSURE. NOTE THAT WORKING HOURS MAY BE RESTRICTED OR THE REQUEST MAY BE DENIED.

* THESE PLANS SHALL BE DRAWN TO SCALE ON REPRODUCIBLE MYLAR AND SEALED BY A LICENSED ENGINEER IN THE STATE OF TEXAS. PLANS WILL BECOME PART OF THE CONTRACT DRAWINGS.

AT&T TEXAS/SWBT FACILITIES

1. THE LOCATIONS OF AT&T TEXAS/SWBT FACILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.

2. THE CONTRACTOR SHALL CALL 1-800-344-8377 (TEXAS 811) A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE UNDERGROUND LINES FIELD LOCATED.

3. WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF AT&T TEXAS/SWBT FACILITIES, ALL EXCAVATIONS MUST BE ACCOMPLISHED USING NON-MECHANICAL EXCAVATION PROCEDURES. WHEN BORING THE CONTRACTOR SHALL EXPOSE THE AT&T TEXAS/SWBT FACILITIES.

4. WHEN AT&T TEXAS/SWBT FACILITIES ARE EXPOSED, THE CONTRACTOR WILL PROVIDE SUPPORT TO PREVENT DAMAGE TO THE CONDUIT DUCTS OR CABLES. WHEN EXCAVATING NEAR TELEPHONE POLES CONTRACTOR SHALL BRACE THE POLE FOR SUPPORT.

5. THE PRESENCE OR ABSENCE OF AT&T TEXAS/SWBT UNDERGROUND CONDUIT FACILITIES OR BURIED CABLE FACILITIES SHOWN ON THESE PLANS DOES NOT MEAN THAT THERE ARE NO DIRECT BURY CABLES OR OTHER CABLES IN THE AREA.

6. PLEASE CONTACT THE AT&T TEXAS DAMAGE PREVENTION MANAGER MR. ROOSEVELT LEE JR. AT (713)412-3990 OR EMAIL HIM AT rl7259@att.com IF CABLE LOCATE REQUESTS ARE NOT COMPLETED FOR OUR AT&T TEXAS/SWBT FACILITIES.

CENTERPOINT ENERGY

CAUTION: UNDERGROUND GAS FACILITIES

THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT 1-800-545-6005 OR 811 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED.

- WHEN CENTERPOINT ENERGY PIPE LINE MARKINGS ARE NOT VISIBLE, CALL 713-207-5463 OR (713) 945-8037 (7:00 A.M. TO 4:30 P.M.) FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS.
- WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF CENTERPOINT ENERGY FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES.
- WHEN CENTERPOINT ENERGY FACILITIES ARE EXPOSED, SUFFICIENT SUPPORT MUST BE PROVIDED TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING.
- FOR EMERGENCIES REGARDING GAS LINES CALL (713) 659-3552 OR (713) 207-4200.

THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.

WARNING: OVERHEAD ELECTRICAL LINES

OVERHEAD LINES MAY EXIST ON THE PROPERTY. THE LOCATION OF THE OVERHEAD LINES HAS NOT BEEN SHOWN ON THESE DRAWINGS AS THE LINES ARE CLEARLY VISIBLE, BUT YOU SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE FORBIDS ACTIVITIES THAT OCCUR IN CLOSE PROXIMITY TO HIGH VOLTAGE LINES, SPECIFICALLY:

- ANY ACTIVITY WHERE PERSON OR THINGS MAY COME WITHIN SIX(6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES; AND
- OPERATING A CRANE, DERRICK, POWER SHOVEL, DRILLING RIG, PILE DRIVER, HOISTING EQUIPMENT, OR SIMILAR APPARATUS WITHIN 10 FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES.

PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS, ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THE LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF OR REMOVED CALL (713) 207-2222.

ACTIVITIES ON OR ACROSS CENTERPOINT ENERGY FEE OR EASEMENT PROPERTY:

NO APPROVAL TO USE, CROSS OR OCCUPY CENTERPOINT FEE OR EASEMENT PROPERTY IS GIVEN. IF YOU NEED TO USE CENTERPOINT PROPERTY, PLEASE CONTACT OUR SURVEYING & RIGHT OF WAY DIVISION AT (713) 207-6348 OR (713) 207-5769.

REV	DESCRIPTION	DATE
0	ISSUE FOR PERMIT	06/30/2022

H2B, INC.
Texas Firm Registration No. 8856
1225 N Loop W, Suite 800
HOUSTON, TX 77008
713.864.2900

AMERICAN LEGION POST 490
11702 GALVESTON ROAD
HOUSTON, TEXAS 77034

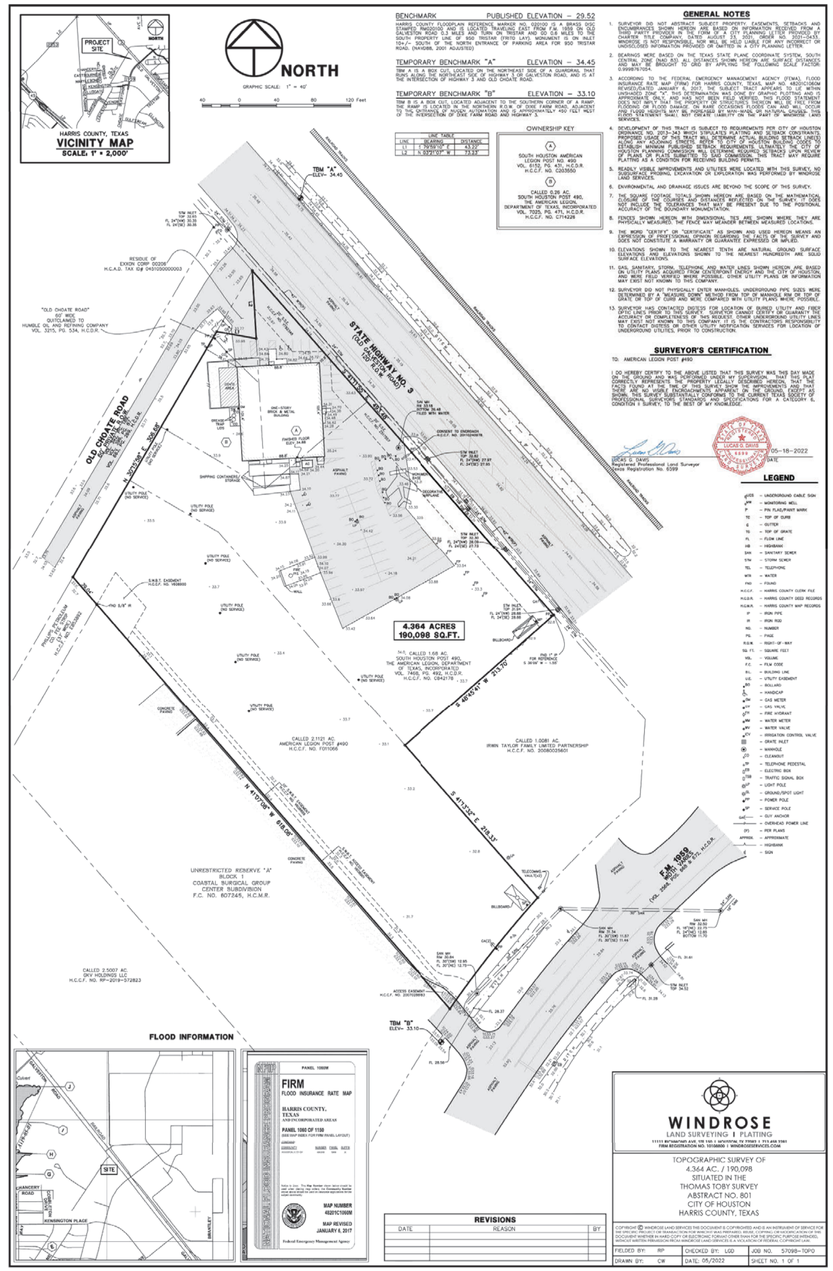
GENERAL NOTES

STATE OF TEXAS
TRAVIS E. JAMES
124735
LICENSED
PROFESSIONAL ENGINEER
6/30/22

H2B PROJECT No. : 22-050
DESIGNED BY : TEJ
DRAWN BY : EEK, WS
SCALE: AS SHOWN
SHEET No. 2 OF 21 SHEETS

C0.01

PLOTTED ON: 06/30/2022 5:00pm FILE: C:\Users\wades\ACCDocs\H2B, Inc\American Legion Post 490\Project Files\H2B Production\Civil\C0.01 - GENERAL NOTES.dwg



REV	DESCRIPTION	DATE
0	ISSUE FOR PERMIT	06/30/2022

H2B, INC.
Texas Firm Registration No. 8856
1225 N Loop W, Suite 800
HOUSTON, TX 77008
713.864.2900

AMERICAN LEGION POST 490
11702 GALVESTON ROAD
HOUSTON, TEXAS 77034

SURVEY

H2B PROJECT No. : 22-050
DESIGNED BY : TEJ
DRAWN BY : EEK, WS
SCALE: AS SHOWN
SHEET No. 3 OF 21 SHEETS

C0.02

PLOTTED ON: 06/30/2022 5:01pm FILE: C:\Users\wades\ACCDocs\H2B, Inc\American Legion Post 490\Project Files\H2B Production\Civil\C0.02 – SURVEY.dwg

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study Report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction, and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures in this jurisdiction.

The **projection** used in the preparation of this map was Universal Transverse Mercator, Zone 15. The **horizontal datum** was NAD83, GRS80 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, NNGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at **(301) 713-3242**, or visit their website at http://www.ngs.noaa.gov/.

Base map information shown on this FIRM was provided in digital format by the Houston-Galveston Area Council and was revised and enhanced by Harris County.

This map reflects more detailed and up-to-date **stream channel configurations** than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

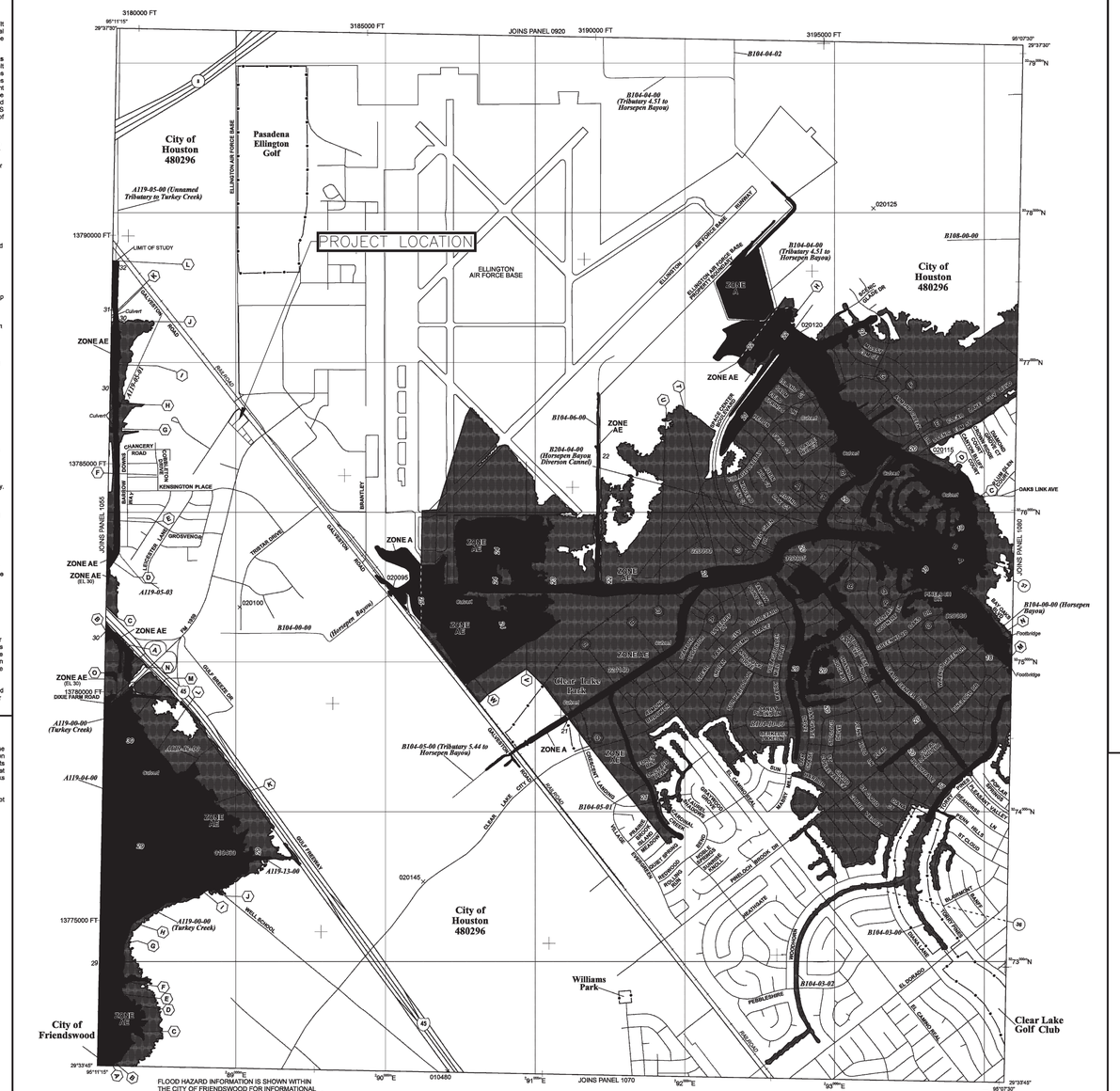
Contact the **FEMA Map Information eXchange** at 1-877-336-2627 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Information eXchange may also be reached by Fax at 1-800-358-9620 and their website at http://www.msc.fema.gov/.

If you have **questions about this map** or questions concerning the National Flood Insurance Program in general, please call **1-877-FEMA MAP** (1-877-336-2627) or visit the FEMA website at http://www.fema.gov/national-flood-insurance-program.

Vertical Datum Adjustment due to subsidence is the 2001 adjustment.

Benchmarks shown on this map were provided by either Harris County or the National Geodetic Survey. To obtain elevation, description, and location information for benchmarks provided by Harris County, please contact the Permits Office of the Engineering Department at 713-274-3900 or visit their website at http://www.eng.hctx.net/permits. For information regarding the benchmarks provided by National Geodetic Survey, please see note above.

Some bridges and other structures shown on the detailed studied streams are not labeled. See corresponding flood profile for appropriate names.



FLOOD HAZARD INFORMATION IS SHOWN WITHIN THE CITY OF FRIENDSWOOD FOR INFORMATIONAL PURPOSES ONLY. FOR FLOOD INSURANCE REFER TO THE SEPARATELY PRINTED FLOOD INSURANCE RATE MAP FOR THE CITY OF FRIENDSWOOD.

LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A	No Base Flood Elevations determined.
ZONE AE	Base Flood Elevations determined.
ZONE AH	Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
ZONE AO	Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
ZONE AR	Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE A99	Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V	Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
ZONE VE	Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X	Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X	Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D	Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- Floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
- 513 (EL 987) — Base Flood Elevation line and value; elevation in feet*
- Base Flood Elevation value where uniform within zone; elevation in feet*

* Referenced to the North American Vertical Datum of 1988

- (A)–(A) Cross section Line
- (B)–(B) Transect line
- 87°07'45", 32°22'30" — Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere
- 3776000mN — 1000-meter Universal Transverse Mercator grid values, zone 15N
- 600000 FT — 5000-foot grid values: Texas State Plane coordinate system, South Central zone (FIPSZONE 4204), Lambert Conformal Conic projection
- DX5510 × — Bench mark (see explanation in Notes to Users section of this FIRM panel)
- M1.5 — River Mile

MAP REPOSITORY
Refer to listing of Map Repositories on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
September 28, 1990

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL
September 30, 1992
November 6, 1998
April 20, 2000
June 18, 2007
January 6, 2017

FOR REASON OF REVISION
SEE NOTICE TO FLOOD INSURANCE STUDY USERS IN THE FIS REPORT

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 1000'
500 0 1000 2000 FEET
300 0 300 600 METERS

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 1060M

FIRM
FLOOD INSURANCE RATE MAP

HARRIS COUNTY, TEXAS
AND INCORPORATED AREAS

PANEL 1060 OF 1150
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
HOUSTON, CITY OF	480296	1060	M

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
48201C1060M

MAP REVISED
JANUARY 6, 2017

Federal Emergency Management Agency

REV	DESCRIPTION	DATE
0	ISSUE FOR PERMIT	06/30/2022

H2B, INC.
Texas Firm Registration No. 8856
1225 N Loop W, Suite 800
HOUSTON, TX 77008
713.864.2900

AMERICAN LEGION POST 490
11702 GALVESTON ROAD
HOUSTON, TEXAS 77034

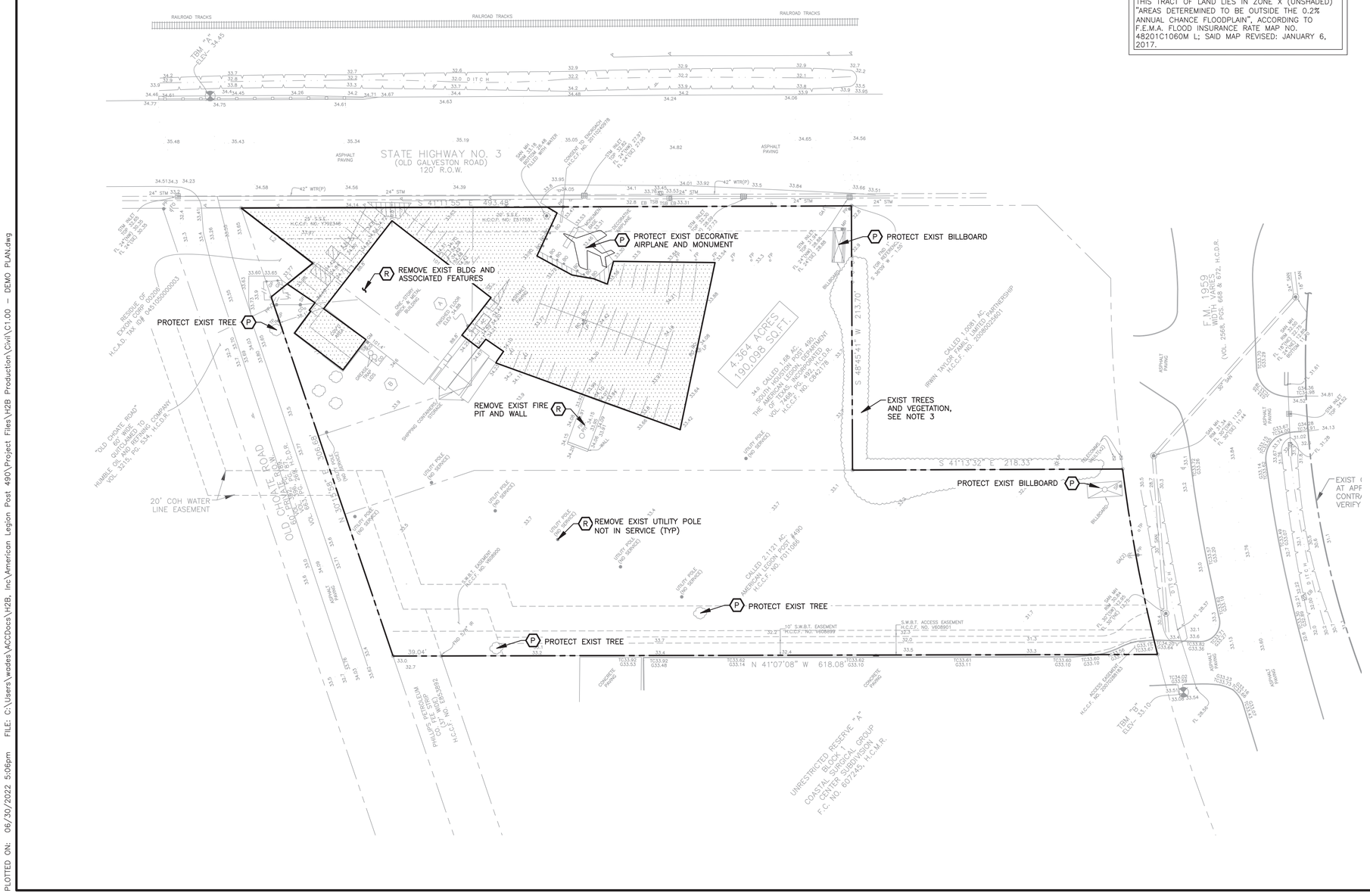
FIRM MAP

STATE OF TEXAS
TRAVIS E. JAMES
124735
LICENSED
PROFESSIONAL ENGINEER
6/30/22

H2B PROJECT No. : 22-050
DESIGNED BY : TEJ
DRAWN BY : EEK, WS
SCALE: AS SHOWN
SHEET No. 4 OF 21 SHEETS

C0.03

PLOTTED ON: 06/30/2022 5:04pm FILE: C:\Users\wades\ACCDocs\H2B, Inc\American Legion Post 490\Project Files\H2B Production\Civil\C0.03 — FIRM MAP.dwg



FLOODPLAIN NOTE:

THIS TRACT OF LAND LIES IN ZONE X (UNSHADED) "AREAS DETEREMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN", ACCORDING TO F.E.M.A. FLOOD INSURANCE RATE MAP NO. 48201C1060M L; SAID MAP REVISED: JANUARY 6, 2017.

0 40' 80'

SCALE: 1" = 40'

BENCHMARK:

HARRIS COUNTY FLOODPLAIN REFERENCE MARKER NO. 020100 IS A BRASS DISC STAMPED RM020100 AND IS LOCATED TRAVELING EAST FROM F.M. 1959 ON OLD GALVESTON ROAD 0.3 MILES AND TURN ON TRISTAR AND GO 0.6 MILES TO THE SOUTH PROPERTY LINE OF 950 TRISTAR (FRITO LAY). MONUMENT IS ON INLET 10+/– SOUTH OF THE NORTH ENTRANCE OF PARKING AREA FOR 950 TRISTAR ROAD. (NAVD88, 2001 ADJUSTED PUBLISHED ELEVATION = 29.52

LEGEND:

- PAVEMENT TO BE REMOVED
- REMOVE EXISTING UTILITY
- ABANDON EXISTING UTILITY
- (R) REMOVE EXISTING FEATURE
- (P) PROTECT EXISTING FEATURE
- (A) ABANDON EXISTING FEATURE
- (L) RELOCATE EXISTING FEATURE

NOTES:

1. LIMITS OF DEMOLITION REQUIRED IS SHOWN IN SCHEMATIC REPRESENTATION ONLY. LIMITS OF DEMOLITION TO BE VERIFIED IN FIELD BY CONTRACTOR.
2. ALL DEMOLISHED MATERIAL TO BE DISPOSED OF OFF-SITE BY CONTRACTOR.
3. ALL EXISTING TREES WITHIN SUBJECT PROPERTY SHALL BE REMOVED UNLESS OTHERWISE NOTED. LOCATIONS OF EXISTING TREES ARE APPROXIMATE, CONTRACTOR TO VERIFY EXACT LOCATIONS.

REV	DESCRIPTION	DATE
0	ISSUE FOR PERMIT	06/30/2022

H2B, INC.
Texas Firm Registration No. 8856
1225 N Loop W, Suite 800
HOUSTON, TX 77008
713.864.2900

AMERICAN LEGION POST 490
11702 GALVESTON ROAD
HOUSTON, TEXAS 77034

STATE OF TEXAS
TRAVIS E. JAMES
124735
LICENSED
PROFESSIONAL ENGINEER
6/30/22

H2B PROJECT No. : 22-050
DESIGNED BY : TEJ
DRAWN BY : EEK, WS
SCALE: AS SHOWN
SHEET No. 5 OF 21 SHEETS

C1.00

PLOTTED ON: 06/30/2022 5:06pm FILE: C:\Users\wades\ACCDocs\H2B, Inc\American Legion Post 490\Project Files\H2B Production\Civil\C1.00 – DEMO PLAN.dwg

FLOODPLAIN NOTE:

THIS TRACT OF LAND LIES IN ZONE X (UNSHADED) "AREAS DETEREMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN", ACCORDING TO F.E.M.A. FLOOD INSURANCE RATE MAP NO. 48201C1060M L; SAID MAP REVISED: JANUARY 6, 2017.

KEYED NOTES:

1	CONC PVMT, SEE LEGEND	7	CONC STAIRS
2	4½" CONC S/W	8	STM SWR SYSTEM
3	6" CONC CURB	9	SAN SWR SYSTEM
4	ADA RAMP	10	WTR LINE SYSTEM
5	ADA SIGN	11	EXISTING MONUMENT TO REMAIN
6	WHEELSTOP	12	NEW 6' WIDE PUBLIC SIDEWALK

NOTES:

1. TYPICAL PARKING STALL SHALL BE 19–FEET LONG AND 9–FEET WIDE, UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB, UNLESS OTHERWISE NOTED.
3. ALL CONCRETE PAVEMENT IN PARKING STALLS AND DRIVE LANES SHALL BE 6" THICK.
4. SOD OR HYDROMULCH ALL DISTURBED AREAS.

0 40' 80'

SCALE: 1" = 40'

BENCHMARK:

HARRIS COUNTY FLOODPLAIN REFERENCE MARKER NO. 020100 IS A BRASS DISC STAMPED RM020100 AND IS LOCATED TRAVELING EAST FROM F.M. 1959 ON OLD GALVESTON ROAD 0.3 MILES AND TURN ON TRISTAR AND GO 0.6 MILES TO THE SOUTH PROPERTY LINE OF 950 TRISTAR (FRITO LAY). MONUMENT IS ON INLET 10+/– SOUTH OF THE NORTH ENTRANCE OF PARKING AREA FOR 950 TRISTAR ROAD. (NAVD88, 2001 ADJUSTED PUBLISHED ELEVATION = 29.52

LEGEND:

- PROPOSED 4½" CONCRETE SIDEWALK
- PROPOSED 5" CONCRETE PAVEMENT
- PROPOSED 6" CONCRETE PAVEMENT
- PROPOSED 7" CONCRETE PAVEMENT
- PROPOSED SOD/GRASS
- PROPERTY LINE
- PROPOSED STORM SEWER
- PROPOSED SANITARY SEWER
- PROPOSED WATER LINE
- PROPOSED SWALE/DITCH
- PROPOSED POND MAINTENANCE BERM
- PROPOSED FIRE HOSE LAY
- FIRE PROPOSED FIRE LANE
- PROPOSED PILOT CHANNEL FLOW LINE

A	NFC - FOR REVIEW	07/11/2022
0	ISSUE FOR PERMIT	06/30/2022
REV	DESCRIPTION	DATE

H2B, INC.
Texas Firm Registration No. 8856
1225 N Loop W. Suite 800
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AMERICAN LEGION POST 490
11702 GALVESTON ROAD
HOUSTON, TEXAS 77034

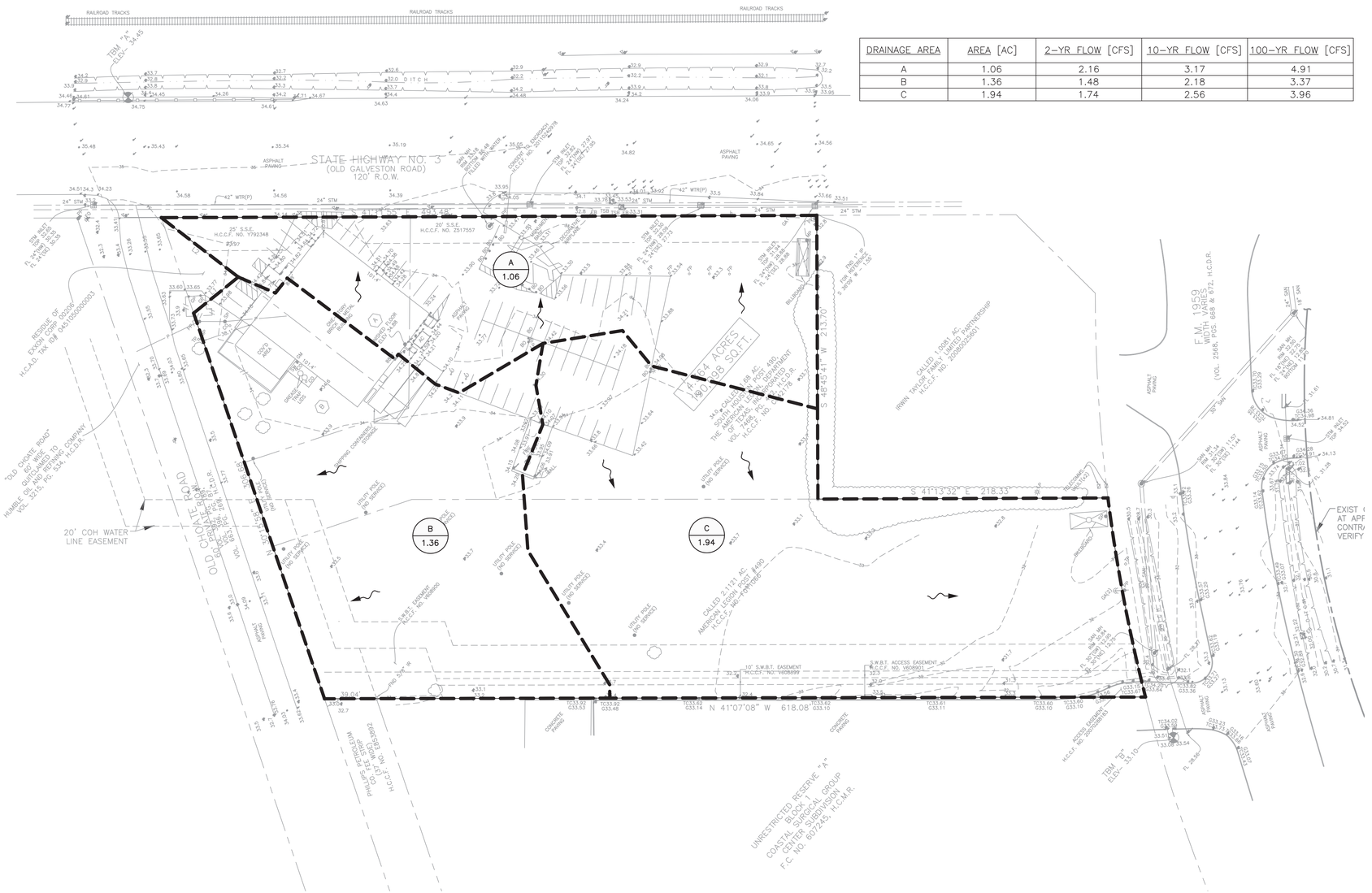
SITE PLAN

TRAVIS E. JAMES , P.E.
TEXAS REGISTRATION NO. 124735
INTERIM SUBMITTAL
NOT FOR CONSTRUCTION PURPOSES

H2B PROJECT No. : 22–050
DESIGNED BY : TEJ
DRAWN BY : EEK, WS
SCALE: AS SHOWN
SHEET No. 6 OF 21 SHEETS

C1.01

PLOTTED ON: 07/11/2022 1:53pm FILE: C:\Users\emil.koseoglu\ACCDocs\H2B, Inc\American Legion Post 490\Project Files\H2B Production\Civil\C1.01 – SITE PLAN.dwg



DRAINAGE AREA	AREA [AC]	2-YR FLOW [CFS]	10-YR FLOW [CFS]	100-YR FLOW [CFS]
A	1.06	2.16	3.17	4.91
B	1.36	1.48	2.18	3.37
C	1.94	1.74	2.56	3.96

0 40' 80'

SCALE: 1" = 40'

BENCHMARK:

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LEGEND:

- "A" / X.XX — DRAINAGE AREA DESIGNATION / DRAINAGE AREA (ACRES)
- 75 — EXISTING MAJOR CONTOUR (1.0')
- DRAINAGE AREA BOUNDARY
- PROPERTY LINE
- SHEET FLOW DIRECTION

FLOODPLAIN NOTE:

THIS TRACT OF LAND LIES IN ZONE X (UNSHADED) "AREAS DETEREMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN", ACCORDING TO F.E.M.A. FLOOD INSURANCE RATE MAP NO. 48201C1060M L; SAID MAP REVISED: JANUARY 6, 2017.

REV	DESCRIPTION	DATE
0	ISSUE FOR PERMIT	06/30/2022

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1225 N Loop W, Suite 800
HOUSTON, TX 77008
713.864.2900

AMERICAN LEGION POST 490
11702 GALVESTON ROAD
HOUSTON, TEXAS 77034

EXISTING DRAINAGE AREA MAP

STATE OF TEXAS
TRAVIS E. JAMES
124735
LICENSED
PROFESSIONAL ENGINEER
6/30/22

H2B PROJECT No. : 22-050
DESIGNED BY : TEJ
DRAWN BY : EEK, WS
SCALE: AS SHOWN
SHEET No. 7 OF 21 SHEETS

C2.00

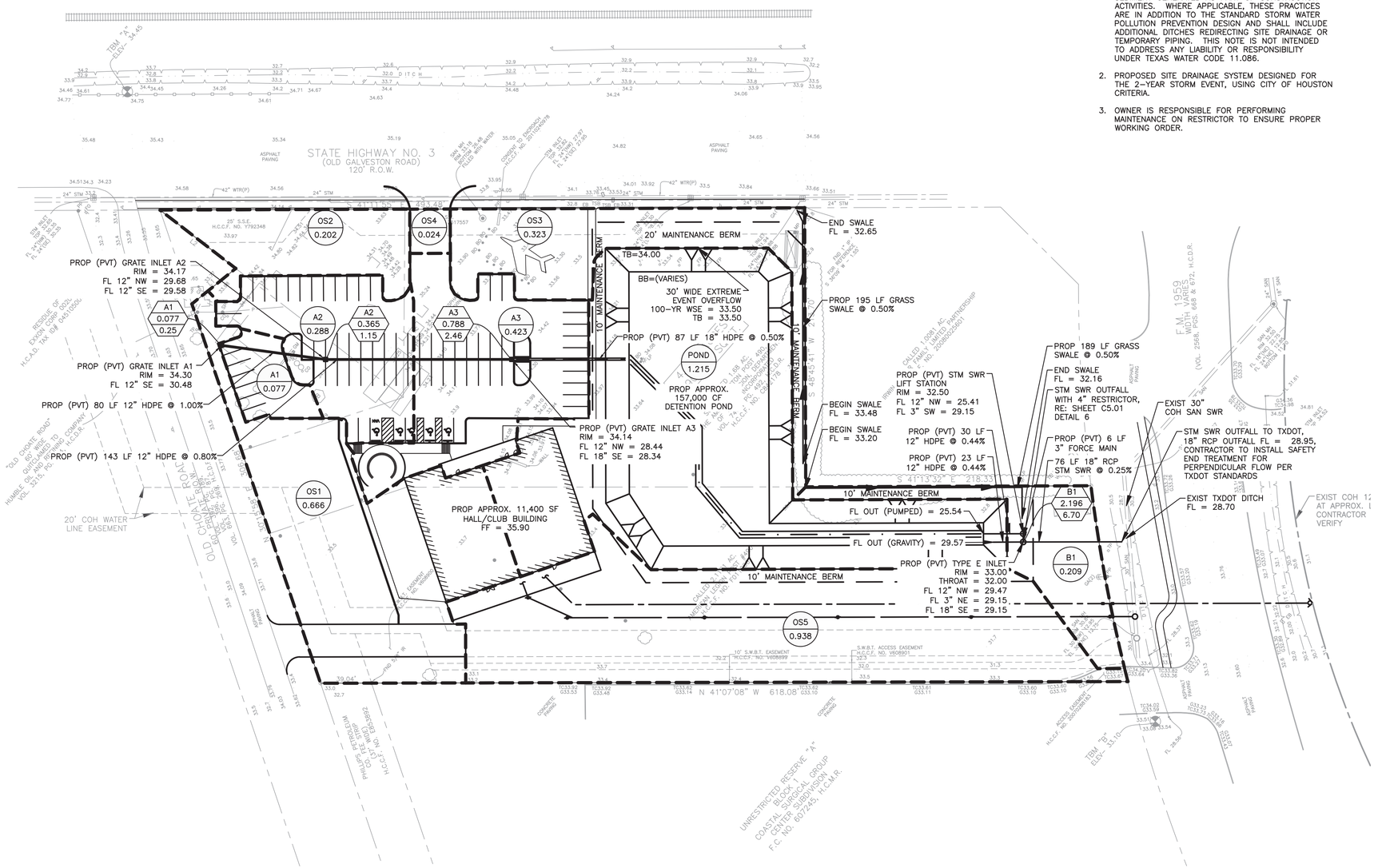
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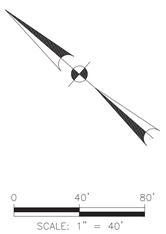
FLOODPLAIN NOTE:

THIS TRACT OF LAND LIES IN ZONE X (UNSHADED) "AREAS DETEREMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN", ACCORDING TO F.E.M.A. FLOOD INSURANCE RATE MAP NO. 48201C1060M L; SAID MAP REVISED: JANUARY 6, 2017.

NOTES:

1. IN AREAS WHERE THE PROJECT DESIGN INCORPORATE FILL ADJACENT TO NEIGHBORING LANDOWNERS, THE CONTRACTOR SHALL IMPLEMENT GRADING AND/OR PERIMETER RUNOFF CATCHMENT DEVICES (E.G. PERIMETER DITCHES) DURING CONSTRUCTION TO ENSURE THAT THE ADJACENT PARCELS BORDERING THE PROJECT SITE DO NOT EXPERIENCE INTERIM DRAINAGE FLOWS THAT EXCEED PRE-DEVELOPMENT CONDITIONS FOR STORM EVENTS UP TO AND INCLUDING THE CURRENT STORM DRAINAGE DESIGN CRITERIA AT THE TIME OF PERMIT OR CARRY SEDIMENT GENERATED AS PART OF CONSTRUCTION ACTIVITIES. WHERE APPLICABLE, THESE PRACTICES ARE IN ADDITION TO THE STANDARD STORM WATER POLLUTION PREVENTION DESIGN AND SHALL INCLUDE ADDITIONAL DITCHES REDIRECTING SITE DRAINAGE OR TEMPORARY PIPING. THIS NOTE IS NOT INTENDED TO ADDRESS ANY LIABILITY OR RESPONSIBILITY UNDER TEXAS WATER CODE 11.086.
2. PROPOSED SITE DRAINAGE SYSTEM DESIGNED FOR THE 2-YEAR STORM EVENT, USING CITY OF HOUSTON CRITERIA.
3. OWNER IS RESPONSIBLE FOR PERFORMING MAINTENANCE ON RESTRICTOR TO ENSURE PROPER WORKING ORDER.





BENCHMARK:

HARRIS COUNTY FLOODPLAIN REFERENCE MARKER NO. 020100 IS A BRASS DISC STAMPED RM020100 AND IS LOCATED TRAVELING EAST FROM F.M. 1959 ON OLD GALVESTON ROAD 0.3 MILES AND TURN ON TRISTAR AND GO 0.6 MILES TO THE SOUTH PROPERTY LINE OF 950 TRISTAR (FRITO LAY). MONUMENT IS ON INLET 10+/- SOUTH OF THE NORTH ENTRANCE OF PARKING AREA FOR 950 TRISTAR ROAD. (NAVD88, 2001 ADJUSTED PUBLISHED ELEVATION = 29.52

LEGEND:

- "X" / X.XX — DRAINAGE AREA DESIGNATION / DRAINAGE AREA (ACRES)
- INL # / AC / FLOW — PROP INLET DESIGNATION / TOTAL ACCUMULATIVE ACRES / TOTAL ACCUMULATIVE FLOW (CFS)
- PROPOSED DRAINAGE AREA BOUNDARY
- PROPERTY LINE
- PROPOSED STORM SEWER
- PROPOSED SWALE/DITCH
- PROPOSED DETENTION MAINTENANCE BERM

REV	DESCRIPTION	DATE
0	ISSUE FOR PERMIT	06/30/2022

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AMERICAN LEGION POST 490
11702 GALVESTON ROAD
HOUSTON, TEXAS 77034

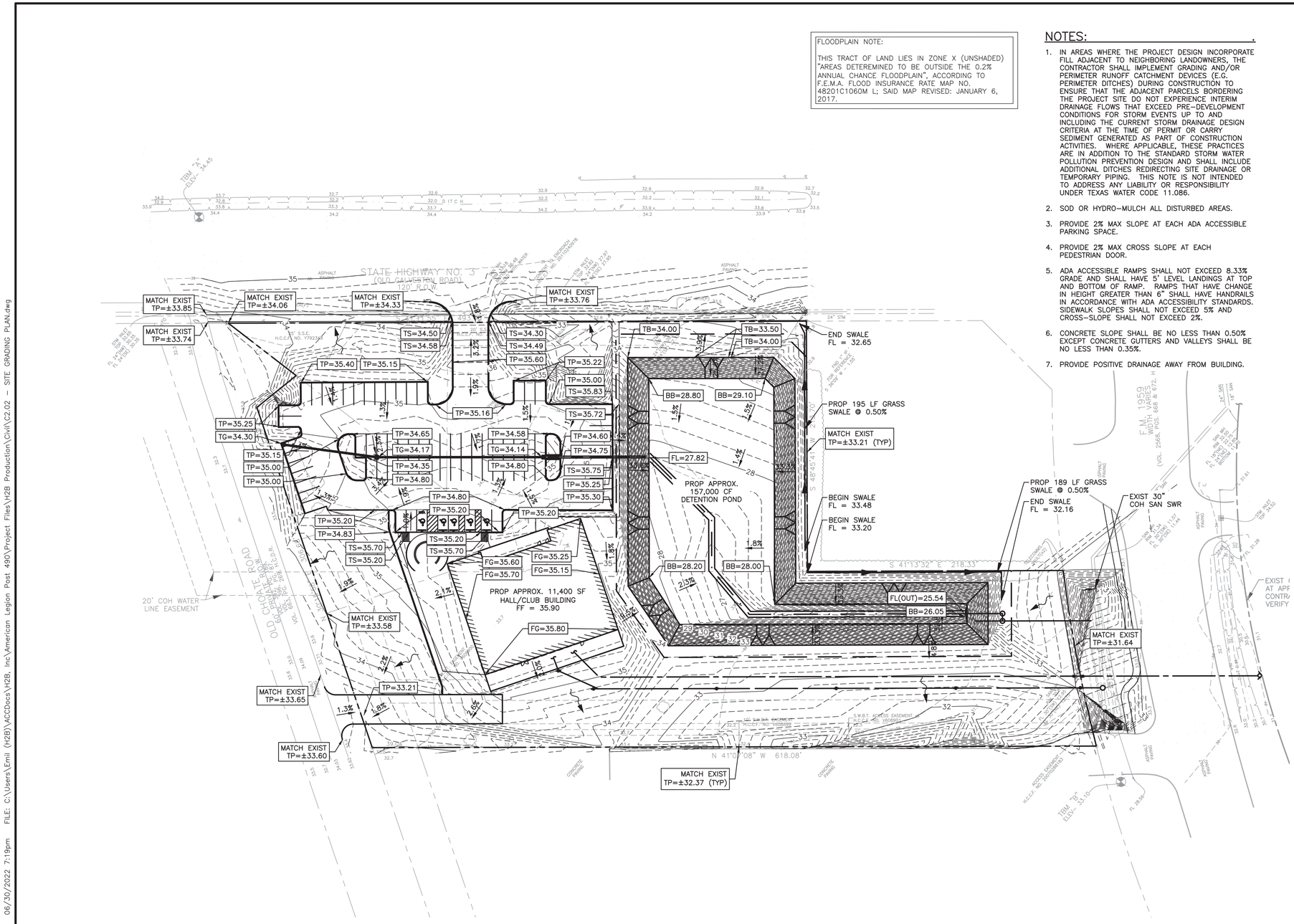
DRAINAGE AREA MAP & STORM PLAN

STATE OF TEXAS
TRAVIS E. JAMES
124735
LICENSED
PROFESSIONAL ENGINEER
6/30/22

H2B PROJECT No. : 22-050
DESIGNED BY : TEJ
DRAWN BY : EEK, WS
SCALE: AS SHOWN
SHEET No. 8 OF 21 SHEETS

C2.01

PLOTTED ON: 06/30/2022 7:36pm FILE: C:\Users\Emil (H2B)\ACCDocs\H2B, Inc\American Legion Post 490\Project Files\H2B Production\Civil\C2.01 - DRAINAGE AREA MAP & STORM PLAN.dwg



FLOODPLAIN NOTE:

THIS TRACT OF LAND LIES IN ZONE X (UNSHADED) "AREAS DETEREMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN", ACCORDING TO F.E.M.A. FLOOD INSURANCE RATE MAP NO. 48201C1060M L; SAID MAP REVISED: JANUARY 6, 2017.

NOTES:

1. IN AREAS WHERE THE PROJECT DESIGN INCORPORATE FILL ADJACENT TO NEIGHBORING LANDOWNERS, THE CONTRACTOR SHALL IMPLEMENT GRADING AND/OR PERIMETER RUNOFF CATCHMENT DEVICES (E.G. PERIMETER DITCHES) DURING CONSTRUCTION TO ENSURE THAT THE ADJACENT PARCELS BORDERING THE PROJECT SITE DO NOT EXPERIENCE INTERIM DRAINAGE FLOWS THAT EXCEED PRE-DEVELOPMENT CONDITIONS FOR STORM EVENTS UP TO AND INCLUDING THE CURRENT STORM DRAINAGE DESIGN CRITERIA AT THE TIME OF PERMIT OR CARRY SEDIMENT GENERATED AS PART OF CONSTRUCTION ACTIVITIES. WHERE APPLICABLE, THESE PRACTICES ARE IN ADDITION TO THE STANDARD STORM WATER POLLUTION PREVENTION DESIGN AND SHALL INCLUDE ADDITIONAL DITCHES REDIRECTING SITE DRAINAGE OR TEMPORARY PIPING. THIS NOTE IS NOT INTENDED TO ADDRESS ANY LIABILITY OR RESPONSIBILITY UNDER TEXAS WATER CODE 11.086.
2. SOD OR HYDRO-MULCH ALL DISTURBED AREAS.
3. PROVIDE 2% MAX SLOPE AT EACH ADA ACCESSIBLE PARKING SPACE.
4. PROVIDE 2% MAX CROSS SLOPE AT EACH PEDESTRIAN DOOR.
5. ADA ACCESSIBLE RAMPS SHALL NOT EXCEED 8.33% GRADE AND SHALL HAVE 5' LEVEL LANDINGS AT TOP AND BOTTOM OF RAMP. RAMPS THAT HAVE CHANGE IN HEIGHT GREATER THAN 6" SHALL HAVE HANDRAILS IN ACCORDANCE WITH ADA ACCESSIBILITY STANDARDS. SIDEWALK SLOPES SHALL NOT EXCEED 5% AND CROSS-SLOPE SHALL NOT EXCEED 2%.
6. CONCRETE SLOPE SHALL BE NO LESS THAN 0.50% EXCEPT CONCRETE GUTTERS AND VALLEYS SHALL BE NO LESS THAN 0.35%.
7. PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING.

0 40' 80'
SCALE: 1" = 40'

BENCHMARK:

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LEGEND:

75	PROPOSED MAJOR CONTOUR (1.0')
	PROPOSED MINOR CONTOUR (0.2')
75	EXISTING MAJOR CONTOUR (1.0')
	PROPERTY LINE
	PROPOSED STORM SEWER
	PROPOSED SANITARY SEWER
	PROPOSED WATER LINE
	PROPOSED SWALE/DITCH
	PROPOSED DETENTION MAINTENANCE BERM
TP	TOP OF PAVEMENT
TS	TOP OF SIDEWALK
FG	FINISHED GRADE
TG	TOP OF GRATE
TB	TOP OF BANK
BB	BOTTOM OF BANK
	FLOW ARROW

REV	DESCRIPTION	DATE
0	ISSUE FOR PERMIT	06/30/2022

H2B, INC.
Texas Firm Registration No. 8856
1225 N Loop W, Suite 800
HOUSTON, TX 77008
713.864.2900

AMERICAN LEGION POST 490
11702 GALVESTON ROAD
HOUSTON, TEXAS 77034

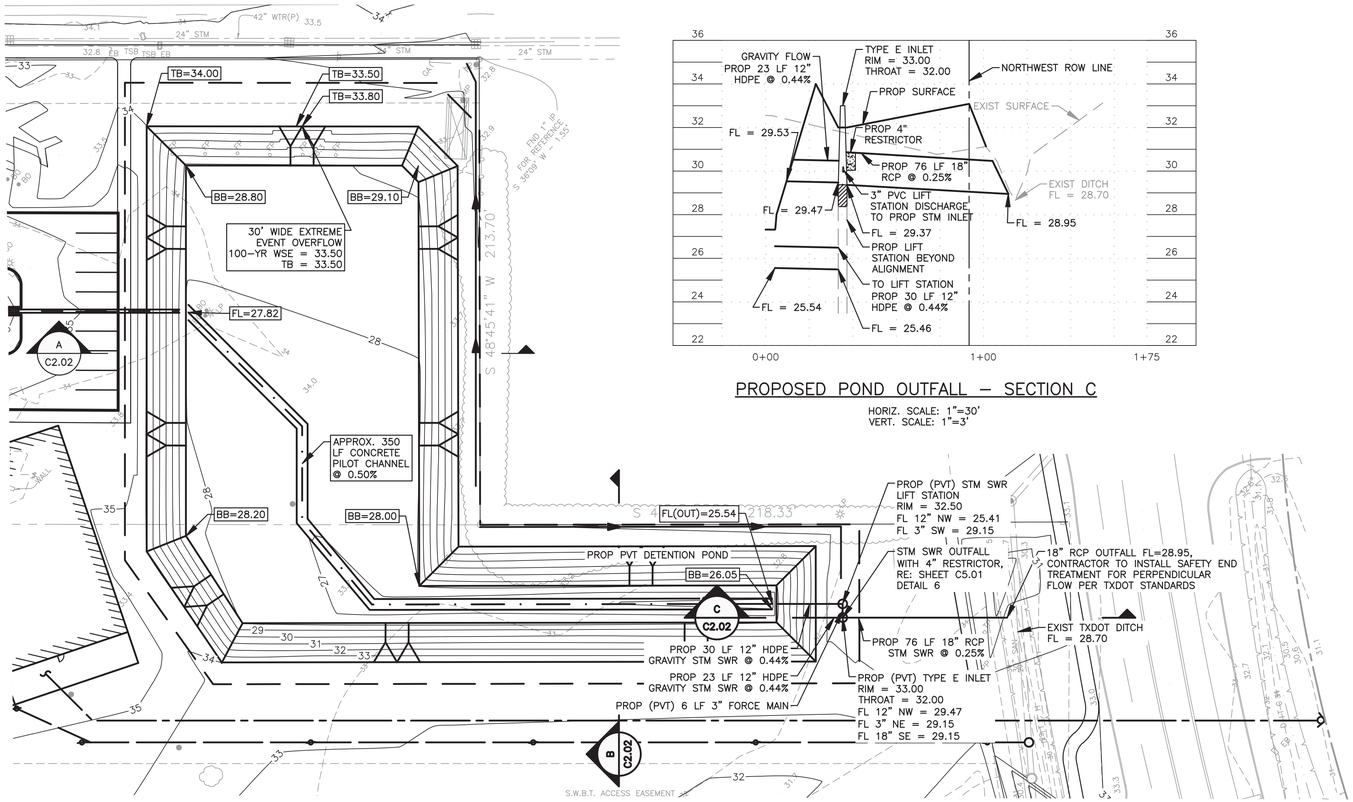
SITE GRADING PLAN

STATE OF TEXAS
TRAVIS E. JAMES
124735
LICENSED
PROFESSIONAL ENGINEER
6/30/22

H2B PROJECT No. : 22-050
DESIGNED BY : TEJ
DRAWN BY : EEK, WS
SCALE: AS SHOWN
SHEET No. 9 OF 21 SHEETS

C2.02

PLOTTED ON: 06/30/2022 7:19pm FILE: C:\Users\Emil (H2B)\ACCDocs\H2B, Inc\American Legion Post 490\Project Files\H2B Production\Civil\C2.02 - SITE GRADING PLAN.dwg

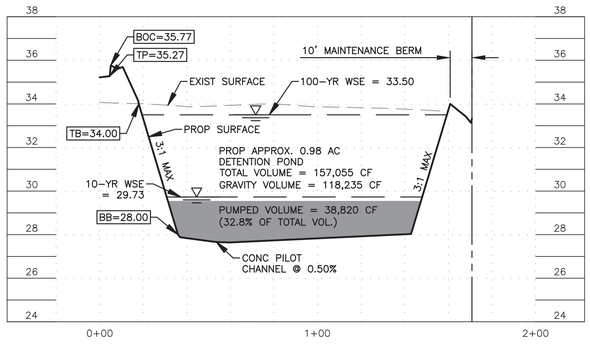


PROPOSED DETENTION POND

SCALE: 1"=30'

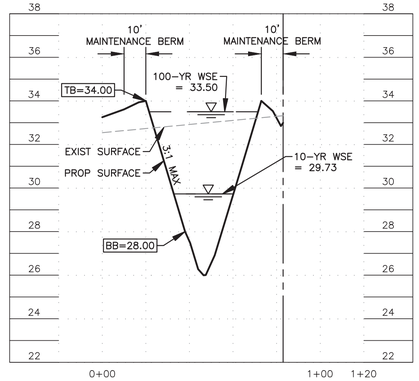
PROPOSED POND OUTFALL – SECTION C

HORIZ. SCALE: 1"=30'
VERT. SCALE: 1"=3'



PROPOSED DETENTION POND – SECTION A

HORIZ. SCALE: 1"=30'
VERT. SCALE: 1"=3'



PROPOSED DETENTION POND – SECTION B

HORIZ. SCALE: 1"=30'
VERT. SCALE: 1"=3'



BENCHMARK:

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LEGEND:

- PROPERTY LINE
- PROPOSED STORM SEWER
- PROPOSED SANITARY SEWER
- PROPOSED WATER LINE
- PROPOSED SWALE/DITCH
- PROPOSED PILOT CHANNEL FL
- PROPOSED DETENTION MAINTENANCE BERM

FLOODPLAIN NOTE:

THIS TRACT OF LAND LIES IN ZONE X (UNSHADED) "AREAS DETEREMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN", ACCORDING TO F.E.M.A. FLOOD INSURANCE RATE MAP NO. 48201C1060M L; SAID MAP REVISED: JANUARY 6, 2017.

REV	DESCRIPTION	DATE
0	ISSUE FOR PERMIT	06/30/2022

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Texas Firm Registration No. 8856
1225 N Loop W, Suite 800
HOUSTON, TX 77008
713.864.2900

AMERICAN LEGION POST 490
11702 GALVESTON ROAD
HOUSTON, TEXAS 77034

DETENTION POND PLAN & SECTIONS

STATE OF TEXAS
TRAVIS E. JAMES
124735
LICENSED PROFESSIONAL ENGINEER
6/30/22

H2B PROJECT No. : 22-050
DESIGNED BY : TEJ
DRAWN BY : EEK, WS
SCALE: AS SHOWN
SHEET No. 10 OF 21 SHEETS

C2.03

PLOTTED ON: 06/30/2022 7:26pm FILE: C:\Users\Emil (H2B)\ACCDocs\H2B, Inc\American Legion Post 490\Project Files\H2B Production\Civil\C2.03 – POND PLAN & SECTIONS.dwg

DETENTION CALCULATIONS:

DETENTION REQUIRED:

TOTAL SITE AREA = 4.22 [AC]
TOTAL AREA IMPERVIOUS = 4.22 x 83% = 3.61 [AC]

CALCULATED DETENTION RATE PER COH = 0.93 [AC–FT/AC]

TOTAL DETENTION VOLUME REQUIRED
= 3.61 x 0.93 = 3.35 [AC–FT] = 146,056 [CF]

DETENTION PROVIDED:

100–YR WATER SURFACE ELEVATION = 33.50'
TOTAL DETENTION POND AREA = 0.98 [AC]
TOTAL DETENTION VOLUME PROVIDED
= 3.61 [AC–FT] = 157,055 [CF]

DETENTION PROVIDED > DETENTION REQUIRED

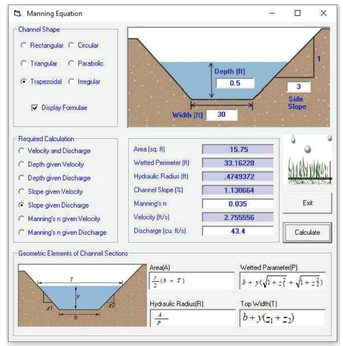
TOTAL VOLUME PUMPED = 38,820 [CF]
TOTAL VOLUME GRAVITY DISCHARGED = 118,235 [CF]

PERCENTAGE OF TOTAL POND VOLUME PUMPED = 32.8%

MAXIMUM DISCHARGE CALCS & RESTRICTOR CALCS:

MAXIMUM ALLOWABLE DISCHARGE RATE:			
MAX OUTFLOW RATE ALLOWED 10-YEAR (FROM POND)	=	1.62	CFS
MAX OUTFLOW RATE ALLOWED 100-YEAR (FROM POND)	=	1.62	CFS
10-YEAR DISCHARGE CALCS:			
MAX OUTFLOW RATE ALLOWED 10-YEAR Q	=	1.62	CFS
WATER SURFACE ELEVATION 10-YEAR	=	29.73	FT
MAX PUMPED FLOW RATE (DUPLEX PUMP SYSTEM)	=	250	GPM
MAX PUMPED FLOW RATE (DUPLEX PUMP SYSTEM)	=	0.56	CFS
PROPOSED DISCHARGE 0.56 CFS < ALLOWABLE DISCHARGE 1.62 CFS			
*NO RESTRICTOR FOR LOW FLOW CONDITIONS REQUIRED. FLOW IS CONTROLLED BY PUMP CAPACITY			
100-YEAR DISCHARGE CALCS:			
MAX OUTFLOW RATE ALLOWED 100-YEAR	=	1.62	
100-YEAR WATER SURFACE ELEVATION h2	=	32.27	
TAILWATER OF OUTFALL PIPE (CENTER OF RESTRICTOR PIPE) h1	=	29.31	
OUTFALL PIPE DIAMETER D	=	1.50	FT
RESTRICTOR / ORIFICE DIAMETER D	=	0.33	FT
COEFFICIENT OF DISCHARGE (SHORT SEGMENT OF PIPE) C	=	0.80	
AREA OF OPENING A	=	0.087	FT^2
ACCELERATION DUE TO GRAVITY g	=	32.2	FT/SEC^2
HEAD DIFFERENTIAL (MIN 2' USED) h2-h1+h	=	2.96	FT
PROPOSED 100-YEAR DISCHARGE Q=CA(2gh)^(0.5)	=	0.96	CFS
PROPOSED MAX POND DRAIN TIME	=	43.07	HOURS
PROPOSED 100-YEAR DISCHARGE 0.96CFS > ALLOWED DISCHARGE 1.62CFS			

EXTREME EVENT OVERFLOW CALCULATIONS:



TxDOT Tracking number (TRH)	TBA	
Highway	FM 1959	
TxDOT frontage	152	FT
TxDOT Area (the strip of site within 150-ft frontage)	0.52	AC
Total tract area based on submitted survey map	4.364	AC
Proposed disturbed area	4.364	AC
Project contributing drainage area to TxDOT	2.760	AC
Off-site contributing drainage area (if applicable)	0	AC
Increased impervious area	2.538	AC
10-yr required detention volume	1.393	AC/FT
10-yr proposed detention volume	1.393	AC/FT
10-yr design W.S.E.	29.73	FT
10-yr Pre-developed peak flow	9.24	CFS
10-yr Post-developed peak flow (Before de te nti on/restrictor)	28.56	CFS
10-yr Proposed discharge to TxDOT R.O.W. (With detention/restrictor)	0.56	CFS
100-yr required detention volume	2.258 per TxDOT	AC/FT
100-yr proposed detention volume	3.606	AC/FT
100-yr design W.S.E.	33.50	FT
100-yr Pre-developed peak flow	14.28	CFS
100-yr Post-developed peak flow (Before de te nti on/restrictor)	43.40	CFS
100-yr Proposed discharge to TxDOT R.O.W. (With detention/restrictor)	0.96	CFS
TxDOT as-built or calculated allowable discharge	1.62	CFS
Primary tie-in/outfall structure size	18	Inch
Primary restrictor size	3	Inch
Primary restrictor maximum discharge	0.56	CFS
Secondary outfall device size (if applicable)	4	CFS
Secondary outfall discharge (if applicable)	0.96	CFS
Maximum combined pumped discharge (if applicable)	250 GPM	(CFS)
% Pumped discharge volume (if applicable)	23.5%	23.5%
Effective gravity discharge elevation (if applicable)	29.57	FT
B.F.E. per effective FIRM (if applicable)	N/A	FT
Proposed fill below B.F.E. (if applicable)	N/A	AC/FT
Proposed cut below B.F.E. (if applicable)	N/A	AC/FT

American Legion Post 490 - Galveston Road

City/County: City of Houston
Project: American Legion Post 490 - Galveston Rc
Job #: 22-050
By: EMIL KOSEOGLU Date: 2022-06-30
Checked By: TRAVIS JAMES Date: 2022-06-30

Design Storm= 2-YEAR
e= 0.724
b= 48.350
d= 9.070

$$I = \frac{b}{(d+TC)^e}$$

FROM M.H.	TO M.H.	SUB AREA (AC)	SUB RUNOFF COEFF. C	TOTAL AREA (AC)	SUM OF C A	Tc (MIN)	INTENSITY I (IN/HR)	SUM OF FLOW (CFS)	REACH (FT)	MANNING n	LINE SIZE (IN)	LINE SLOPE (%)	DESIGN Q (CFS)	DESIGN V (FPS)	FALL (FT)	FLOWLINE UP-STREAM	FLOWLINE DOWN-STREAM	TOP OF GRATE UP-STREAM	TOP OF GRATE DOWN-STREAM	ACTUAL V (FPS)	SLOPE OF H.G.L. (%)	H (FT)	UPST H.G.L. (FT)	DNST H.G.L. (FT)
A1	A2	0.077	0.8	0.08	0.06	21.37	4.07	0.25	80	0.013	12	1.00%	3.57	4.55	0.80	30.48	29.68	34.30	34.17	0.32	0.00%	0.80	34.00	33.20
A2	A3	0.288	0.8	0.37	0.29	23.03	3.92	1.14	143	0.013	12	0.80%	3.20	4.07	1.14	29.58	28.44	34.17	34.14	1.46	0.10%	1.14	33.20	32.06
A3	POND	0.423	0.8	0.79	0.63	23.59	3.87	2.44	87	0.013	18	0.50%	7.45	4.21	0.44	28.34	27.90	34.14	33.50	1.38	0.05%	0.44	32.06	31.62
POND	LS	1.215	0.8	2.00	1.60	25.35	3.73	5.97	30	0.013	12	0.44%	2.37	3.02	0.13	25.54	25.41	33.50	32.50	7.60	2.79%	0.84	31.62	30.79
LS	B1	-	0.8	2.00	1.60	15.00	4.83	7.73	3	0.013	3					29.15	29.15	32.50	33.00				30.79	30.79
POND	B1	1.215	0.8	2.00	1.60	25.35	3.73	5.97	23	0.013	12	0.44%	2.36	3.01	0.10	29.57	29.47	33.50	33.00	7.60	2.79%	0.64	31.43	30.79
B1	OUT	0.209	0.80	2.21	1.77	22.59	3.96	7.00	76	0.013	18	0.25%	5.32	3.01	0.19	29.14	28.95	33.00	30.30	3.96	0.44%	0.34	30.79	30.45
OS1	OUT	0.449	0.51	0.45	0.23	23.68	3.86	0.89																
OS2	OUT	0.202	0.20	0.20	0.04	22.55	3.96	0.16																
OS3	OUT	0.323	0.22	0.32	0.07	23.20	3.90	0.27																
OS4	OUT	0.024	0.80	0.02	0.02	20.19	4.19	0.08																
OS5	OUT	0.938	0.23	0.94	0.21	24.89	3.76	0.80																

American Legion Post 490 - Galveston Road

City/County: City of Houston
Project: American Legion Post 490 - Galveston Rc
Job #: 22-050
By: EMIL KOSEOGLU Date: 2022-06-30
Checked By: TRAVIS JAMES Date: 2022-06-30

Design Storm= 100-YEAR
e= 0.580
b= 60.660
d= 4.440

$$I = \frac{b}{(d+TC)^e}$$

FROM M.H.	TO M.H.	SUB AREA (AC)	SUB RUNOFF COEFF. C	TOTAL AREA (AC)	SUM OF C A	Tc (MIN)	INTENSITY I (IN/HR)	SUM OF FLOW (CFS)	REACH (FT)	MANNING n	LINE SIZE (IN)	LINE SLOPE (%)	DESIGN Q (CFS)	DESIGN V (FPS)	FALL (FT)	FLOWLINE UP-STREAM	FLOWLINE DOWN-STREAM	TOP OF GRATE UP-STREAM	TOP OF GRATE DOWN-STREAM	ACTUAL V (FPS)	SLOPE OF H.G.L. (%)	H (FT)	UPST H.G.L. (FT)	DNST H.G.L. (FT)
A1	A2	0.077	0.8	0.08	0.06	21.37	9.22	0.57	80	0.013	12	1.00%	3.57	4.55	0.80	30.48	29.68	34.30	34.17	0.72	0.03%	0.80	38.90	38.10
A2	A3	0.288	0.8	0.37	0.29	23.03	8.89	2.60	143	0.013	12	0.80%	3.20	4.07	1.14	29.58	28.44	34.17	34.14	3.31	0.53%	1.14	38.10	36.95
A3	POND	0.423	0.8	0.79	0.63	23.59	8.78	5.54	87	0.013	18	0.50%	7.45	4.21	0.44	28.34	27.90	34.14	33.50	3.14	0.28%	0.44	36.95	36.52
POND	LS	1.215	0.8	2.00	1.60	25.35	8.48	13.59	30	0.013	12	0.44%	2.37	3.02	0.13	25.54	25.41	33.50	32.50	17.31	14.47%	4.34	36.52	32.18
LS	B1	-	0.8	2.00	1.60	15.00	10.86	17.40	3	0.013	3					29.15	29.15	32.50	33.00				32.18	32.18
POND	B1	1.215	0.8	2.00	1.60	25.35	8.48	13.59	23	0.013	12	0.44%	2.36	3.01	0.10	29.57	29.47	33.50	33.00	17.31	14.47%	3.33	35.51	32.18
B1	OUT	0.209	0.80	2.21	1.77	22.59	8.97	15.88	76	0.013	18	0.25%	5.32	3.01	0.19	29.14	28.95	33.00	30.30	8.99	2.27%	1.73	32.18	30.45
OS1	OUT	0.449	0.51	0.45	0.23	23.68	8.77	2.03																
OS2	OUT	0.202	0.20	0.20	0.04	22.55	8.98	0.36																
OS3	OUT	0.323	0.22	0.32	0.07	23.20	8.86	0.62																
OS4	OUT	0.024	0.80	0.02	0.02	20.19	9.47	0.18																
OS5	OUT	0.938	0.23	0.94	0.21	24.89	8.56	1.82																

FLOODPLAIN NOTE:

THIS TRACT OF LAND LIES IN ZONE X (UNSHADED) "AREAS DETEREMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN", ACCORDING TO F.E.M.A. FLOOD INSURANCE RATE MAP NO. 48201C1060M L; SAID MAP REVISED: JANUARY 6, 2017.

REV	DESCRIPTION	DATE
0	ISSUE FOR PERMIT	06/30/2022

H2B, INC.
Texas Firm Registration No. 8856
1225 N Loop W, Suite 800
HOUSTON, TX 77008
713.864.2900

AMERICAN LEGION POST 490
11702 GALVESTON ROAD
HOUSTON, TEXAS 77034

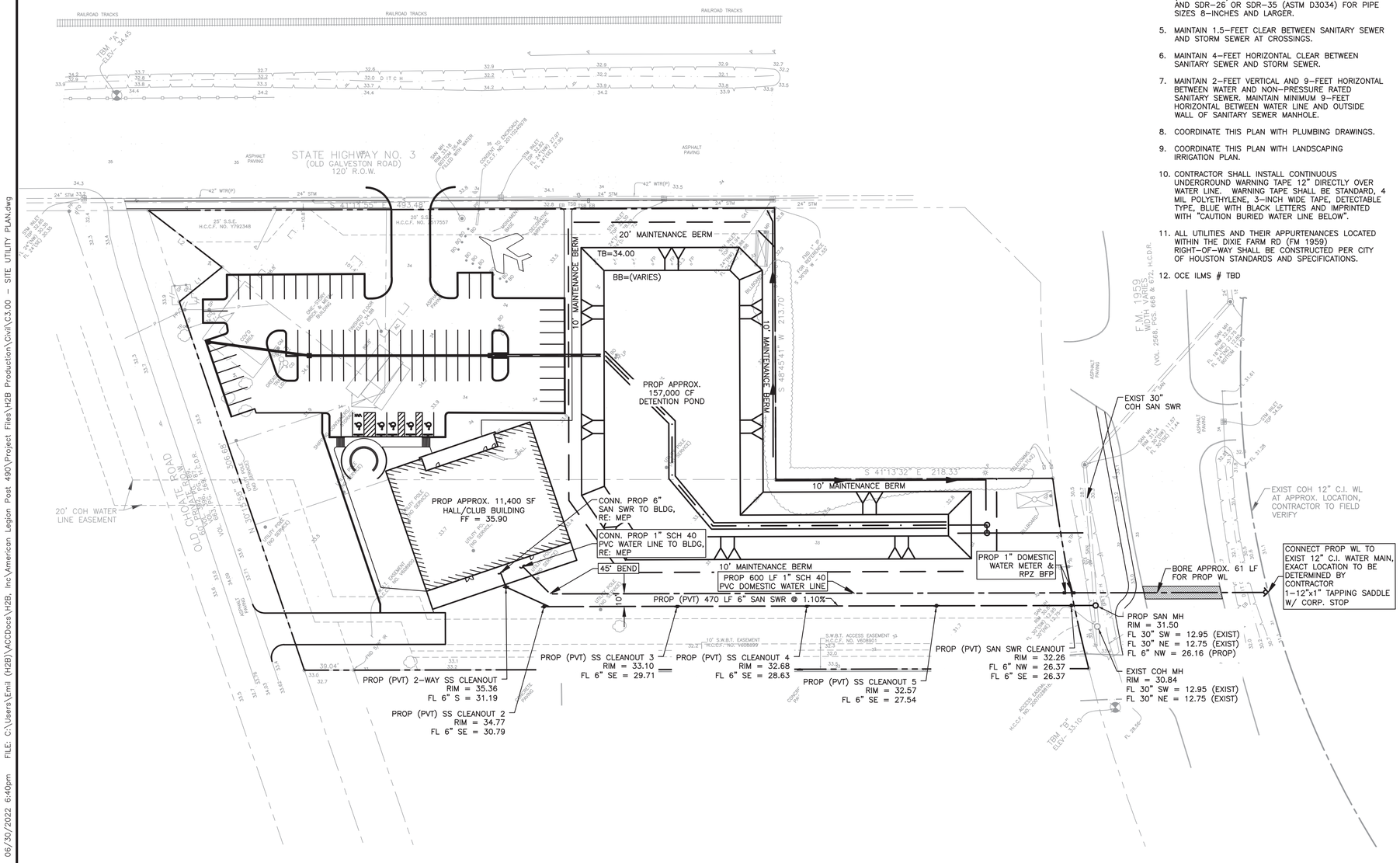
DRAINAGE & DETENTION CALCULATIONS

STATE OF TEXAS
TRAVIS E. JAMES
124735
LICENSED
PROFESSIONAL ENGINEER
6/30/22

H2B PROJECT No. : 22-050
DESIGNED BY : TEJ
DRAWN BY : EEK, WS
SCALE: AS SHOWN
SHEET No. 11 OF 21 SHEETS

C2.04

PLOTTED ON: 06/30/2022 6:37pm FILE: C:\Users\Emil (H2B)\ACCDocs\H2B, Inc\American Legion Post 490\Project Files\H2B Production\Civil\C2.04 – DRAINAGE & DETENTION CALCS.dwg



FLOODPLAIN NOTE:

THIS TRACT OF LAND LIES IN ZONE X (UNSHADED) "AREAS DETEREMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN", ACCORDING TO F.E.M.A. FLOOD INSURANCE RATE MAP NO. 48201C1060M L; SAID MAP REVISED: JANUARY 6, 2017.

NOTES:

1. PROPOSED DOMESTIC WATER LINE SHALL BE POLYVINYL CHLORIDE PIPE (PVC) SCH 40 WITHIN PRIVATE PROPERTY AND SHALL BE COPPER WITHIN CITY OF HOUSTON RIGHT-OF-WAY.
2. PROPOSED FIRE LINE SHALL BE POLYVINYL CHLORIDE PIPE (PVC) C900.
3. PROPOSED WATER LINE MINIMUM COVER 42-INCHES.
4. PROPOSED SANITARY SEWER SHALL BE PVC SCH 40 (ASTM D1765) FOR PIPE SIZES UP TO 6-INCHES AND SDR-26 OR SDR-35 (ASTM D3034) FOR PIPE SIZES 8-INCHES AND LARGER.
5. MAINTAIN 1.5-FEET CLEAR BETWEEN SANITARY SEWER AND STORM SEWER AT CROSSINGS.
6. MAINTAIN 4-FEET HORIZONTAL CLEAR BETWEEN SANITARY SEWER AND STORM SEWER.
7. MAINTAIN 2-FEET VERTICAL AND 9-FEET HORIZONTAL BETWEEN WATER AND NON-PRESSURE RATED SANITARY SEWER. MAINTAIN MINIMUM 9-FEET HORIZONTAL BETWEEN WATER LINE AND OUTSIDE WALL OF SANITARY SEWER MANHOLE.
8. COORDINATE THIS PLAN WITH PLUMBING DRAWINGS.
9. COORDINATE THIS PLAN WITH LANDSCAPING IRRIGATION PLAN.
10. CONTRACTOR SHALL INSTALL CONTINUOUS UNDERGROUND WARNING TAPE 12" DIRECTLY OVER WATER LINE. WARNING TAPE SHALL BE STANDARD, 4 MIL POLYETHYLENE, 3-INCH WIDE TAPE, DETECTABLE TYPE, BLUE WITH BLACK LETTERS AND IMPRINTED WITH "CAUTION BURIED WATER LINE BELOW".
11. ALL UTILITIES AND THEIR APPURTENANCES LOCATED WITHIN THE DIXIE FARM RD (FM 1959) RIGHT-OF-WAY SHALL BE CONSTRUCTED PER CITY OF HOUSTON STANDARDS AND SPECIFICATIONS.
12. OCE ILMS # TBD

0 40' 80'
SCALE: 1" = 40'

BENCHMARK:

HARRIS COUNTY FLOODPLAIN REFERENCE MARKER NO. 020100 IS A BRASS DISC STAMPED RM020100 AND IS LOCATED TRAVELING EAST FROM F.M. 1959 ON OLD GALVESTON ROAD 0.3 MILES AND TURN ON TRISTAR AND GO 0.6 MILES TO THE SOUTH PROPERTY LINE OF 950 TRISTAR (FRITO LAY). MONUMENT IS ON INLET 10+/- SOUTH OF THE NORTH ENTRANCE OF PARKING AREA FOR 950 TRISTAR ROAD. (NAVD88, 2001 ADJUSTED PUBLISHED ELEVATION = 29.52

LEGEND:

- PROPERTY LINE
- PROPOSED STORM SEWER
- PROPOSED SANITARY SEWER
- PROPOSED WATER LINE
- PROPOSED SWALE/DITCH
- PROPOSED GAS LINE
- PROPOSED DETENTION MAINTENANCE BERM
- BORE UNDER ROAD

REV	DESCRIPTION	DATE
0	ISSUE FOR PERMIT	06/30/2022

H2B, INC.
Texas Firm Registration No. 8856
1225 N Loop W, Suite 800
HOUSTON, TX 77008
713.864.2900

AMERICAN LEGION POST 490
11702 GALVESTON ROAD
HOUSTON, TEXAS 77034

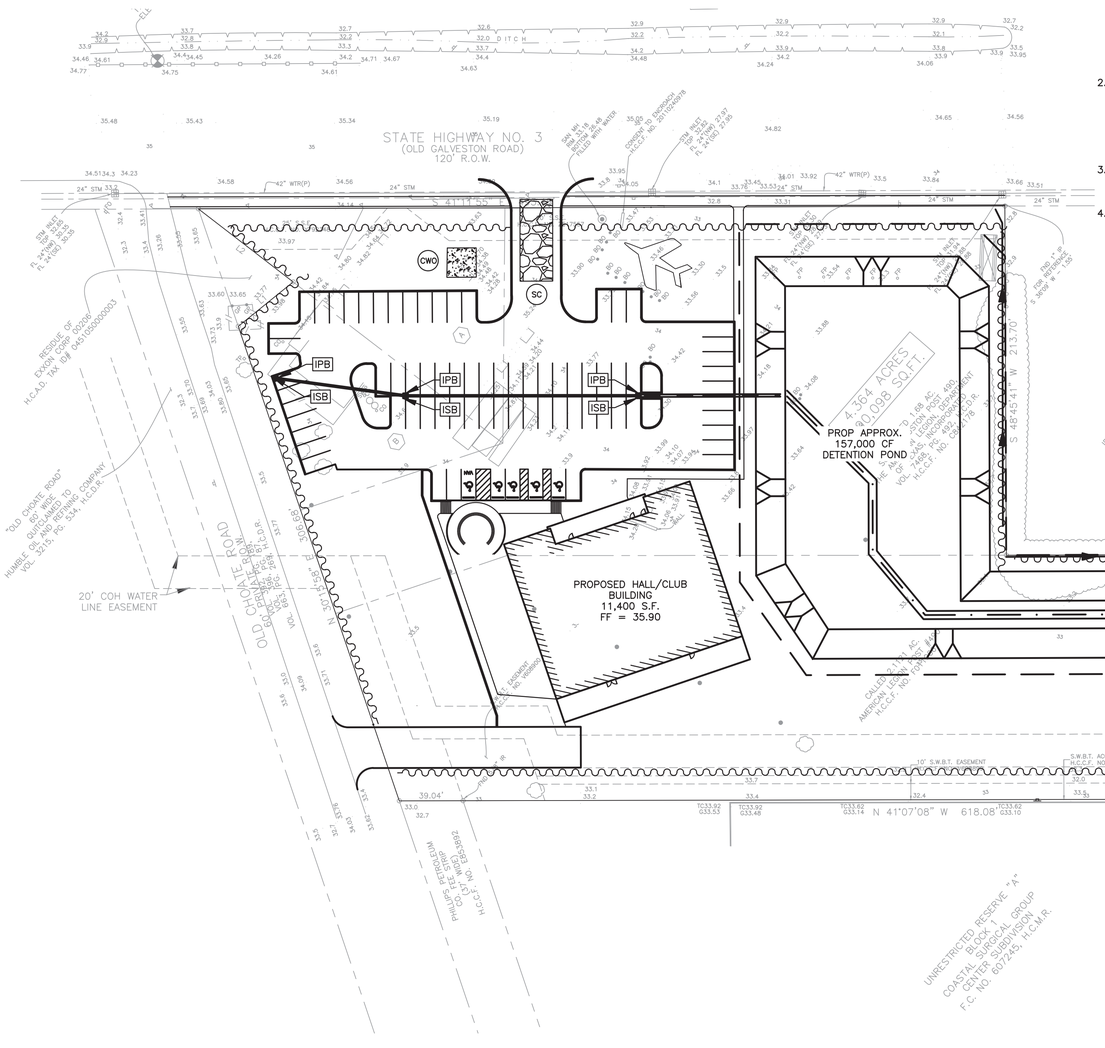
SITE UTILITY PLAN

STATE OF TEXAS
TRAVIS E. JAMES
124735
LICENSED
PROFESSIONAL ENGINEER
6/30/22

H2B PROJECT No. : 22-050
DESIGNED BY : TEJ
DRAWN BY : EEK, WS
SCALE: AS SHOWN
SHEET No. 12 OF 21 SHEETS

C3.00

PLOTTED ON: 06/30/2022 6:40pm FILE: C:\Users\Emil (H2B)\ACCDocs\H2B, Inc\American Legion Post 490\Project Files\H2B Production\Civil\C3.00 - SITE UTILITY PLAN.dwg



NOTES:

1. IN AREAS WHERE THE PROJECT DESIGN INCORPORATE FILL ADJACENT TO NEIGHBORING LANDOWNERS, THE CONTRACTOR SHALL IMPLEMENT GRADING AND/OR PERIMETER RUNOFF CATCHMENT DEVICES (E.G. PERIMETER DITCHES) DURING CONSTRUCTION TO ENSURE THAT THE ADJACENT PARCELS BORDERING THE PROJECT SITE DO NOT EXPERIENCE INTERIM DRAINAGE FLOWS THAT EXCEED PRE--DEVELOPMENT CONDITIONS FOR STORM EVENTS UP TO AND INCLUDING THE CURRENT STORM DRAINAGE DESIGN CRITERIA AT THE TIME OF PERMIT OR CARRY SEDIMENT GENERATED AS PART OF CONSTRUCTION ACTIVITIES. WHERE APPLICABLE, THESE PRACTICES ARE IN ADDITION TO THE STANDARD STORM WATER POLLUTION PREVENTION DESIGN AND SHALL INCLUDE ADDITIONAL DITCHES REDIRECTING SITE DRAINAGE OR TEMPORARY PIPING. THIS NOTE IS NOT INTENDED TO ADDRESS ANY LIABILITY OR RESPONSIBILITY UNDER TEXAS WATER CODE 11.086.
2. TEXAS WATER CODE 11.086 "NO PERSON MAY DIVERT OR IMPOUND THE NATURAL FLOW OF SURFACE WATERS IN THIS STATE, OR PERMIT A DIVERSION OR IMPOUNDING BY HIM TO CONTINUE, IN A MANNER THAT DAMAGES THE PROPERTY OF ANOTHER BY THE OVERFLOW OF THE WATER DIVERTED OR IMPOUNDED".
3. ALL SUBCONTRACTORS WILL BE EDUCATED TO FOLLOW STORM WATER POLLUTION PREVENTION REQUIREMENTS.
4. ANY LAND CLEARING, CONSTRUCTION, DEVELOPMENT, OR OTHER ACTIVITIES INVOLVING THE MOVEMENT OF EARTH SHALL BE IN ACCORDANCE WITH THE SWPPP.
5. A SITE OPERATOR SHALL BE ON SITE ON ALL DAYS WHERE CONSTRUCTION OR GRADING ACTIVITY TAKES PLACE.
6. STRUCTURAL BMP's WILL BE INSPECTED AND MAINTAINED AT LEAST EVERY 14 DAYS AND AFTER ANY PRECIPITATION OR RUNOFF EVENT THAT CAUSES SURFACE EROSION, SEDIMENT TRANSPORT OR VEHICULAR TRACKING.
7. SCRAPING AND SWEEPING OF STREETS, SIDEWALKS AND FLOWLINES MUST BE CONDUCTED AT THE END OF EACH WORK DAY WHEN DIRT AND OTHER CONSTRUCTION MATERIAL HAS BEEN TRACKED ONTO STREETS.
8. EARTH MATERIALS AND LANDSCAPE MATERIALS SUCH AS SOD, ROCK AND MULCH SHALL NOT BE STOCKPILED, PLACED OR STORED ON DRIVEWAYS, STREETS, SIDEWALKS OR IN STORM WATER FLOWLINES.
9. CONSTRUCTION SUPPLIES (e.g., TRUSSES AND LUMBER), ROLL OFF CONTAINERS, DUMPSTERS, PORTABLE TOILETS, TRAILERS, ETC., SHALL NOT BE STORED ON STREETS OR SIDEWALKS OR OTHER IMPERVIOUS SURFACES. THESE ITEMS SHALL BE STORED ON THE CONSTRUCTION SITE OR STAGING AREAS.
10. SANITARY FACILITIES SHALL BE LOCATED ON NATURAL GROUND AND AT LEAST 25 FEET FROM ANY STORM SEWER INLET OR WATER BODY AND SHALL BE SERVICED REGULARLY AS NEEDED.
11. ALL DISTURBED (NON PAVED) AREAS SHALL BE HYDROMULCH SEEDED.

0 40' 80'
SCALE: 1" = 40'

BENCHMARK:

HARRIS COUNTY FLOODPLAIN REFERENCE MARKER NO. 020100 IS A BRASS DISC STAMPED RM020100 AND IS LOCATED TRAVELING EAST FROM F.M. 1959 ON OLD GALVESTON ROAD 0.3 MILES AND TURN ON TRISTAR AND GO 0.6 MILES TO THE SOUTH PROPERTY LINE OF 950 TRISTAR (FRITO LAY). MONUMENT IS ON INLET 10+/– SOUTH OF THE NORTH ENTRANCE OF PARKING AREA FOR 950 TRISTAR ROAD. (NAVD88, 2001 ADJUSTED PUBLISHED ELEVATION = 29.52

LEGEND:

- IPB — INLET PROTECTION BARRIER
- ISB — INLET SKIMMER BASKET (PERMANENT SWQ FEATURE)
- FILTER FABRIC FENCE
- CWO — CONCRETE WASHOUT AREA
- SC — STABILIZED CONSTRUCTION EXIT
- PROPERTY LINE
- PROPOSED STORM SEWER
- PROPOSED SWALE/DITCH
- PROPOSED DETENTION MAINTENANCE BERM

FLOODPLAIN NOTE:

THIS TRACT OF LAND LIES IN ZONE X (UNSHADED) "AREAS DETEREMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN", ACCORDING TO F.E.M.A. FLOOD INSURANCE RATE MAP NO. 48201C1060M L; SAID MAP REVISED: JANUARY 6, 2017.

REV	DESCRIPTION	DATE
0	ISSUE FOR PERMIT	06/30/2022

H2B, INC.
Texas Firm Registration No. 8856
1225 N Loop W, Suite 800
HOUSTON, TX 77008
713.864.2900

AMERICAN LEGION POST 490
11702 GALVESTON ROAD
HOUSTON, TEXAS 77034

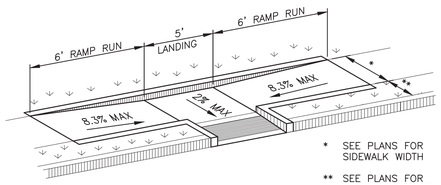
SWQ & SWPPP

STATE OF TEXAS
TRAVIS E. JAMES
124735
LICENSED
PROFESSIONAL ENGINEER
6/30/22

H2B PROJECT No. : 22-050
DESIGNED BY : TEJ
DRAWN BY : EEK, WS
SCALE: AS SHOWN
SHEET No. 13 OF 21 SHEETS

C4.00

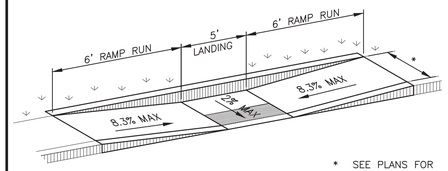
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* SEE PLANS FOR SIDEWALK WIDTH

** SEE PLANS FOR SIDEWALK OFFSET

SIDEWALK OFFSET FROM CURB



* SEE PLANS FOR SIDEWALK WIDTH

SIDEWALK ADJACENT TO CURB

NOTES:

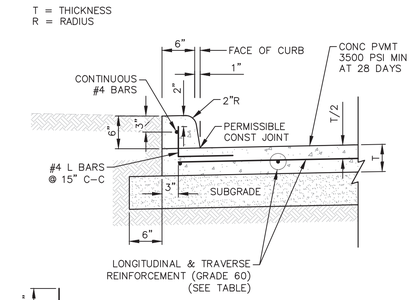
1. DIMENSION AND SLOPE VALUES SHOWN ARE TYPICAL, UNLESS NOTED OTHERWISE ON THE PLANS.
2. SLOPE VALUES SHOWN ARE MAXIMUM ALLOWABLE. FLATTER SLOPES ARE ENCOURAGED.
3. CROSS SLOPE NOT TO EXCEED 2% ON ANY PORTION OF RAMP, LANDING, OR TRANSITION TO STREET OR DRIVEWAY.

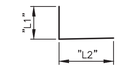
PARALLEL CURB RAMP DETAIL

SCALE: NTS

6

T = THICKNESS
R = RADIUS





* TYPICALLY SPACE L BARS AT 15" CENTERS. FOR RADII OF 10' OR LESS, SPACE AT 10" CENTERS

#4 L BARS

PAVEMENT		REINFORCING STEEL		
THICKNESS "T" (IN)	DUTY	LONGITUDINAL & TRAVERSE	L BAR "L1"	L BAR "L2"
5	LIGHT	#3 @ 18"	6"	10"
6	MEDIUM	#3 @ 12"	7"	10"
7	HEAVY	#4 @ 18"	8"	10"
8	DUMPSTER	#4 @ 12"	9"	10"

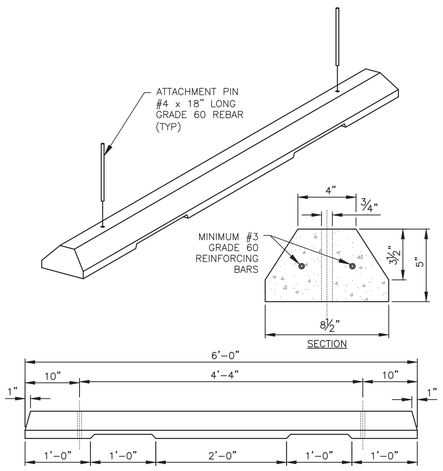
SUBGRADE NOTES:

1. PROOF ROLL & REMOVE SOFT SPOTS. SHAPE SCARIFY, AND STABILIZE SUBGRADE PER GEOTECHNICAL REPORT RECOMMENDATIONS.
2. COMPACT SUBGRADE SOIL TO 95% OF STANDARD PROCTOR DENSITY PER ASTM D 898.
3. MOISTURE CONTENT TO BE −1% TO +3% OF OPTIMUM AT TIME OF COMPACTION.

CONC PVMT w/ 6" CURB DETAIL

SCALE: 1" = 1'

4



NOTES:

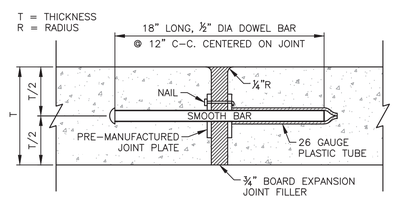
1. CONCRETE FOR WHEEL STOP: MINIMUM 3,000 PSI IN 28 DAYS.
2. REINFORCING STEEL: GRADE 60.
3. ATTACHMENT PINS SHALL HAVE 12−INCH EMBEDMENT.
4. PLACE WHEELSTOPS 2'−6" FROM THE END OF PARKING STALL.

PRECAST CONC WHEELSTOP DETAIL

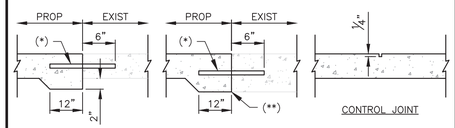
SCALE: NTS

2

T = THICKNESS
R = RADIUS



DOWEL TYPE EXPANSION JOINT



CONNECTION S/W TO S/W

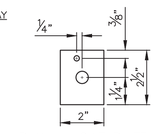
CONNECTION S/W TO DRIVEWAY

* #4 DEFORMED BAR EMBEDDED IN EXIST CONC WITH EPOXY.

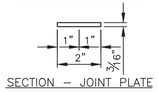
** SAWCUT 2−INCH MINIMUM. MATCH D/W THICKNESS.

NOTES:

1. STEEL TO MEET ASTM STANDARD SPECIFICATIONS FOR CONCRETE REINFORCING BARS.
2. EXPANSION JOINT TO BE PLACED AT THE END OF EACH CURB RADIUS AND SPACED AT A MAXIMUM DISTANCE OF 36−FEET. MAXIMUM SPACING FOR CONTROL JOINT SHALL BE 5 FEET.



PLAN − JOINT PLATE



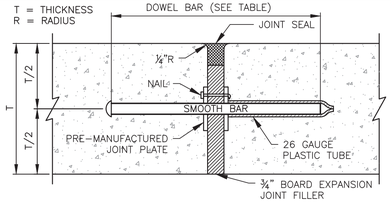
SECTION − JOINT PLATE

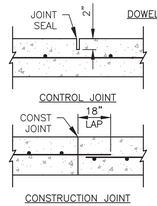
SIDEWALK JOINT DETAILS

SCALE: NTS

5

T = THICKNESS
R = RADIUS



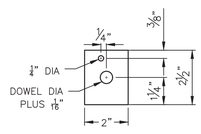


DOWEL TYPE EXPANSION JOINT

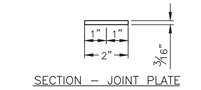
PAVEMENT THICKNESS (IN)	DOWEL SIZES AND SPACINGS		
	DIAMETER (IN)	LENGTH (IN)	SPACING (IN)
5	1/2	18	12
6	3/4	18	12
7	1	18	12

NOTES:

1. STEEL TO MEET ASTM STANDARD SPECIFICATIONS FOR CONCRETE REINFORCING BARS. UNITS TO BE SPACED ON 12−INCH CENTERS.
2. EXPANSION JOINT TO BE PLACED AT THE END OF EACH CURB RADIUS AND SPACED AT A MAXIMUM DISTANCE OF 60−FEET. TIE−IN AT EXISTING SHALL HAVE AN EXPANSION JOINT.
3. CONSTRUCTION OR CONTROL JOINTS TO BE SPACED AT A MAXIMUM DISTANCE OF 15−FEET.



PLAN − JOINT PLATE

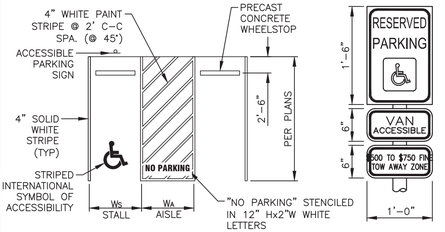


SECTION − JOINT PLATE

PAVEMENT JOINT DETAILS

SCALE: NTS

3



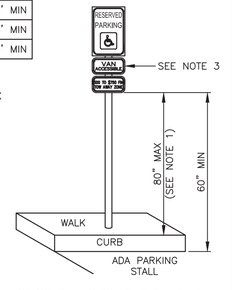
ACCESSIBLE PARKING STALL & ACCESS AISLE DETAIL

PLAQUE DETAIL

ADA STALL TYPE	W_S	W_A
STANDARD	8' MIN	5' MIN
VAN ACCESSIBLE 1	8' MIN	8' MIN
VAN ACCESSIBLE 2	11' MIN	5' MIN

NOTES:

1. SIGN SHALL BE 80" MAXIMUM ABOVE THE SURFACE OF THE WALK IF SIGN IS LOCATED ALONG AN ACCESSIBLE ROUTE AND PROJECTS 4" OR MORE FROM POLE, PER ADA GUIDELINES SECTION 4.4.2.
2. ALTERNATIVELY, SIGN MAY BE MOUNTED ON A STRUCTURE FACADE (i.e. BUILDING, FENCE, etc.) WITH APPROVAL OF OWNER.
3. PROVIDE VAN ACCESSIBLE SIGN ONLY ON VAN ACCESSIBLE STALLS, WHERE IDENTIFIED ON PLANS.
4. ALL SIGNAGE & STRIPING SHALL MEET THE LATEST REQUIREMENTS OF THE TEXAS DEPARTMENT OF LICENSING AND REGULATION FOR ACCESSIBLE ROUTES AND PARKING SPACES.



ACCESSIBLE PARKING SIGN DETAIL

ACCESSIBLE PARKING STALL DETAIL

SCALE: NTS

1

REV	DESCRIPTION	DATE
0	ISSUE FOR PERMIT	06/30/2022

H2B, INC.
Texas Firm Registration No. 8856
1225 N Loop W, Suite 800
HOUSTON, TX 77008
713.864.2900

AMERICAN LEGION POST 490
11702 GALVESTON ROAD
HOUSTON, TEXAS 77034

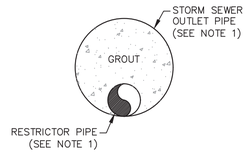
PAVING DETAILS

STATE OF TEXAS
TRAVIS E. JAMES
124735
LICENSED
PROFESSIONAL ENGINEER
6/30/22

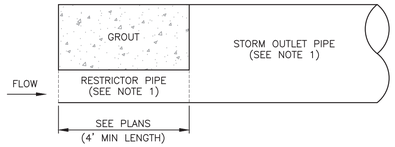
H2B PROJECT No. : 22-050
DESIGNED BY : TEJ
DRAWN BY : EEK, WS
SCALE: AS SHOWN
SHEET No. 14 OF 21 SHEETS

C5.00

PLOTTED ON: 06/30/2022 5:30pm FILE: C:\Users\wades\ACCDocs\H2B, Inc\American Legion Post 490\Project Files\H2B Production\Civil\C5.00 − PAVING DETAILS.dwg



SECTION



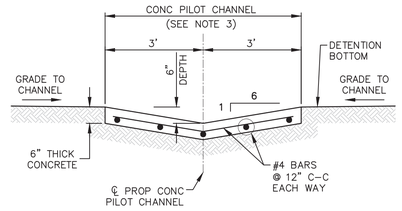
PROFILE

NOTES:

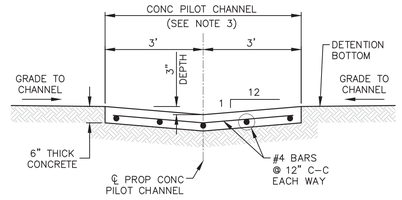
1. SEE PLANS FOR SIZE, MATERIAL, AND LENGTH OF STORM OUTLET AND RESTRICTOR PIPES. RESTRICTOR PIPE LENGTH SHALL BE 4–FOOT MINIMUM AND SHALL BE GROUTED IN PLACE FROM END TO END.
2. GROUT TO BE "NON–SHRINK", AND SHALL BE PREPACKAGED, INORGANIC, FLOWABLE, NON–GAS–LIBERATING, NON–METALLIC, CEMENT–BASED REQUIRING ONLY THE ADDITION OF WATER. GROUT SHALL MEET THE REQUIRMENTS OF ASTM C 1107 AND HAVE A MINIMUM 28–DAY COMPRESSIVE STRENGTH OF 7000 psi.

RESTRICTOR DETAIL
SCALE: 1" = 2'

6



TYPICAL CONFIGURATION



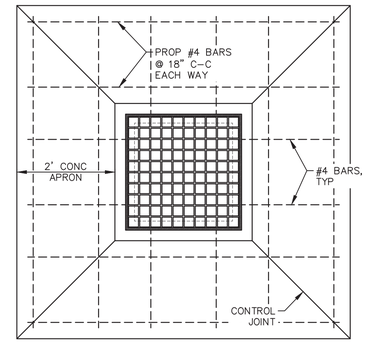
SHALLOW CONFIGURATION

NOTES:

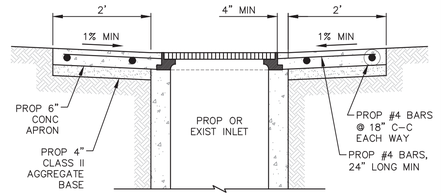
1. CONCRETE SHALL BE 3,000 psi AT 28 DAYS.
2. INSTALL "TYPICAL CONFIGURATION", EXCEPT WHEN "SHALLOW CONFIGURATION" IS SPECIFICALLY STATED IN PLANS.
3. TYPICAL WIDTH SHALL BE 6–FEET, UNLESS SHOWN OTHERWISE ON PLANS.

PILOT CHANNEL DETAIL
SCALE: 1" = 2'

4



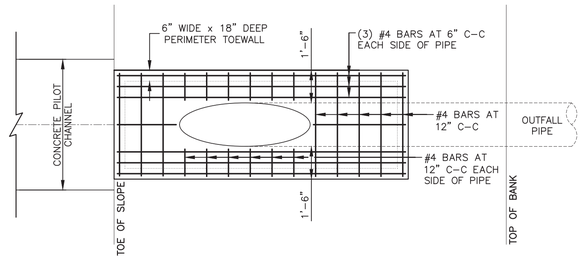
PLAN



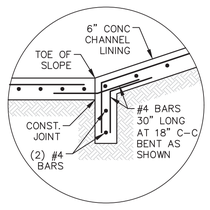
ELEVATION

INLET CONCRETE APRON DETAIL
SCALE: 1" = 2'

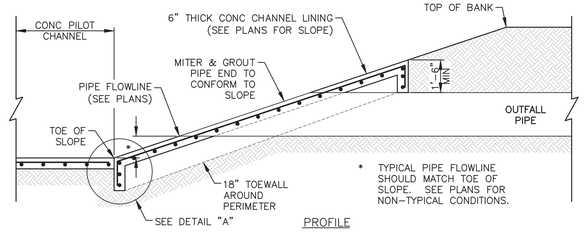
2



PLAN



DETAIL "A"

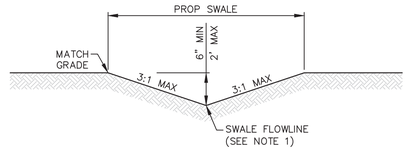


PROFILE

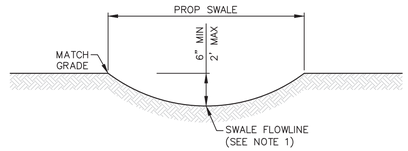
* TYPICAL PIPE FLOWLINE SHOULD MATCH TOE OF SLOPE. SEE PLANS FOR NON–TYPICAL CONDITIONS.

TYPICAL POND OUTFALL DETAIL
SCALE: NTS

5



V–SECTION CONFIGURATION



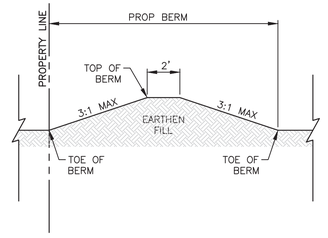
ROUNDED CONFIGURATION

NOTES:

1. REFER TO PLANS FOR PROPOSED SWALE UPSTREAM AND DOWNSTREAM FLOWLINE ELEVATIONS.
2. TYPICAL UPSTREAM FLOWLINE OF SWALE SHOULD BE SET 6–INCHES BELOW FINAL GRADING.
3. PERFERRED SIDE–SLOPE IS 4:1, BUT MAY BE STEEPER PROVIDED SLOPE DOES NOT EXCEED 3:1. REFER TO PLANS FOR POSSIBLE NON–TYPICAL SIDE–SLOPES.
4. HYRDOMUCLH SEED ALL DISTURBED AREAS.

GRASS SWALE DETAIL
SCALE: NTS

3



NOTES:

1. REFER TO PLANS FOR PROPOSED TOP OF BERM AND TOE OF BERM ELEVATIONS.
2. TYPICALLY LOCATE OUTSIDE EDGE OF BERM ON PROPERTY LINE. REFER TO PLANS FOR POSSIBLE NON–TYPICAL LOCATIONS.
3. PERFERRED SIDE–SLOPE IS 4:1, BUT MAY BE STEEPER PROVIDED SLOPE DOES NOT EXCEED 3:1. REFER TO PLANS FOR POSSIBLE NON–TYPICAL SIDE–SLOPES.
4. PROPOSED BERM SHALL BE CONSTRUCTED FROM EXCESS EXCAVATED SITE MATERIAL. FILL MATERIAL MAY BE NON–SUITABLE.
5. HYRDOMUCLH SEED ALL DISTURBED AREAS.

PERIMETER BERM DETAIL
SCALE: 1" = 4'

1

REV	DESCRIPTION	DATE
0	ISSUE FOR PERMIT	06/30/2022

H2B, INC.
Texas Firm Registration No. 8856
1225 N Loop W, Suite 800
HOUSTON, TX 77008
713.864.2900

AMERICAN LEGION POST 490
11702 GALVESTON ROAD
HOUSTON, TEXAS 77034

STORM DETAILS (1 OF 2)

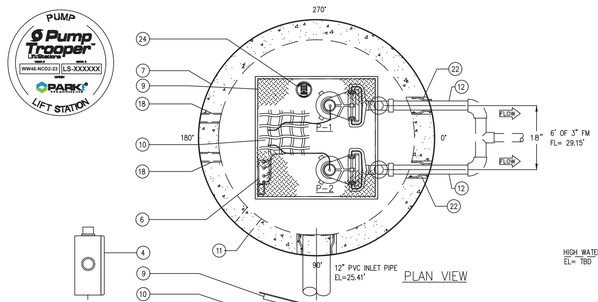
STATE OF TEXAS
TRAVIS E. JAMES
124735
LICENSED
PROFESSIONAL ENGINEER
6/30/22

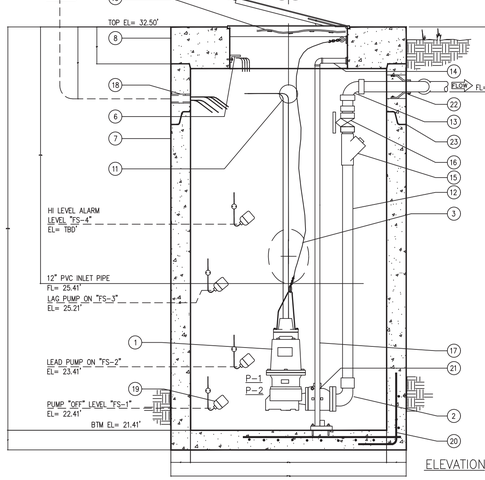
H2B PROJECT No. : 22–050
DESIGNED BY : TEJ
DRAWN BY : EEK, WS
SCALE: AS SHOWN
SHEET No. 15 OF 21 SHEETS

C5.01

PLOTTED ON: 06/30/2022 5:31pm FILE: C:\Users\wades\ACCDocs\H2B, Inc\American Legion Post 490\Project Files\H2B Production\Civil\C5.01 – STORM DETAILS (1 OF 2).dwg

PLOTTED ON: 06/30/2022 5:34pm FILE: C:\Users\wades\ACCDocs\H2B, Inc\American Legion Post 490\Project Files\H2B Production\Civil\C5.02 - STORM DETAILS (2 OF 2).dwg





STATION OPERATION LEVELS		
RISING LEVEL CYCLE		
WATER LEVEL ELEVATION	ACTION	PUMPS IN OPERATION
23.41'	LEAD PUMP TURNS "ON", FS-2	LEAD PUMP "ON"
25.21'	LAG PUMP TURNS "ON", FS-3	LEAD & LAG PUMPS "ON"
TBD'	HIGH WATER "ALARM"LEVEL, FS-4	HIGH LEVEL ALARM "ON"
FALLING LEVEL CYCLE		
TBD'	HIGH WATER ALARM, FS-4	ALL PUMPS "ON"
22.41'	PUMPS "OFF" LEVEL, FS-1	ALL PUMPS "OFF" LAG PUMP SWITCHES TO LEAD PUMP

NOTE:
ALL DASHED PIPING TO BE FURNISHED BY CONTRACTOR

NOTE:
VERIFY ALL ELEVATIONS PRIOR TO FABRICATION

NOTE:
VERIFY ALL INLET/OUTLET ORIENTATIONS PRIOR TO FABRICATION

KEYED NOTES		
MARK	QTY	DESCRIPTION
1	2	2" SUBMERSIBLE PUMP
2	2	2" BASE ELBOW
3	2	STAINLESS STEEL CHAINS
4	1	DUPLEX CONTROL PANEL NEMA 4X FRP (MOUNTED & WIRED BY CONTRACTOR) W/GENERATOR RECEPTACLE
5	–	NOT USED
6	1	SS CABLE BRACKET
7	1	48" DIA x 11'-1"± DEEP CONCRETE WET WELL
8	1	12" THK FLAT CONCRETE TOP
9	1	30"x30" GALVINIZE STEEL HATCH
10	1	SAFETY NET
11	1	4" VENT COUPLING
12	2	2" SCH 80 PVC DISCHARGE PIPE
13	2	2" SCH 80 PVC 90° ELL
14	2	SS UPPER GUIDE BRACKETS
15	2	2" PVC BALL CHECK VALVE
16	2	2" PVC BALL VALVE w/ UNIONS
17	4	SS GUIDE RAILS
18	2	3" ELECTRICAL COUPLING
19	4	FLOAT SWITCH
20	–	REBAR AS REQ'D
21	2	LIFT-OUT ASSEMBLY
22	2	RESILIENT RUBBER BOOT
23	–	ALL JOINTS MADE WATER-TIGHT w/ PLASTIC FLEXIBLE GASKET (RAM-NEK)
24	1	NAMEPLATE INDICATING: MFG: PARKUSA 888-611-PARK www.PARKUSA.com MODEL: WW48-NCD2-100-9-050-23 DATE MANUFACTURED
25	1	REMOTE MOUNT DITCH FLOAT (BY OTHERS)

SPECIFICATION

CONCRETE:
CLASS I/II CEMENT WITH DESIGN STRENGTH OF 4500 PSI AT 28 DAYS. UNIT IS OF MONOLITHIC CONSTRUCTION AT FLOOR, FIRST STAGE OF WALL AND BAFFLE WITH SECTIONAL RISER TO REQUIRED DEPTH.

REINFORCEMENT:
GRADE 60 REINFORCED WITH STEEL REBAR CONFORMING TO ASTM A615 ON REQUIRED CENTERS OR EQUAL.

ALUMINUM HATCH:
300 PSF RATED, 1/4" ALUMINUM SKID-RESISTANT FLOOR PLATE, STAINLESS STEEL TAMPERPROOF BOLTING, HINGES & SLAMLOCK.

PUMPS:
PUMPS SHALL BE CENTRIFUGAL TYPE WITH INTEGRAL NON CLOG UNIT AND SUBMERSIBLE TYPE MOTOR. PUMPS SHALL HAVE A CAPACITY AS FOLLOWS:

PUMP No.	TYPE	GPM	TDH	RPM	ELECTRICAL HP	V	PH	Hz
P-1	NON-CLOG	100	9'	1750	0.4	120	1	60
P-2	NON-CLOG	100	9'	1750	0.4	120	1	60

CONTROLS:
PUMP CONTROLS SHALL BE MOUNTED INSIDE A UL LISTED NEMA-4X ENCLOSURE AND INCLUDE CIRCUIT BREAKERS, ALARM CIRCUIT FUSE, IEC RATED MOTOR STARTER, PUMP HOA, AND ALTERNATOR RELAY. PANEL SHALL HAVE A VISUAL ALARM BEACON. PANEL IS DESIGNED FOR REMOTE MOUNTING.

ENGINEERING DATA
FIELD EXCAVATION AND PREPARATION SHALL BE COMPLETED PRIOR TO DELIVERY OF ASSEMBLY. USE DIMENSIONAL DATA AS SHOWN. ALL PIPE, VALVES AND FITTINGS OF THE ASSEMBLY ARE APPROVED BY ONE OF THE FOLLOWING ASSOCIATIONS:

NPCA CERTIFIED PLANT · ASTM B64.5 · UL · NSF/ANSI 61 APPROVED

MODEL NUMBER: ParkUSA
888-611-PARK www.PARKUSA.com
WW48-NCD2-100-9-050-23

- WET WELL SIZE (ID): 48 – 48" DIA; 60 – 60" DIA; 72 – 72" DIA; 96 – 96" DIA
- PUMP CONFIGURATION: S – SIMPLEX; D – DUPLEX
- PUMP DISCHARGE SIZE: 2 – 2"; 4 – 4"; 6 – 6"; 8 – 8"
- FLOW RATE CAPACITY (GPM): 100 – 100GPM; 200 200 GPM; ETC...
- POWER CHARACTERISTICS: 43 – 460V/3PH/60Hz; 23 – 230V/3PH/60Hz; 21 – 230V/1PH/60Hz; 03 – 208V/3PH/60Hz; 01 – 208V/1PH/60Hz
- NON-CLOG PUMP SIZE: 01 – 1.0 HP; 20 – 2.0 HP; 30 – 3.0 HP; 50 – 5.0 HP; 75 – 7.5 HP
- PUMP HEAD CAPACITY (TDH): 10 – 10' TDH; 20 – 20' TDH; ETC...

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C5.02 - STORM DETAILS (2 OF 2)

REV	DATE	BY	DESCRIPTION
0			ISSUE FOR PERMIT 06/30/2022

PROJECT: AMERICAN LEGION POST 490
CUSTOMER: .
ENGINEER: H2B, INC
ORDER #: . PROJ #: .
DATE: 06/28/2022 LOCATION: HOUSTON, TX

PARK USA
www.parkusa.com 888-611-PARK

STORM SEWER LIFT STATION
SUBMERSIBLE NON-CLOG PUMP STATION

PM	PC	DRN	ENG	DWG. NO.	REV.
DATE 06/2022				WW48-NCD2-23	A

PARK STM SWR LIFT STATION DETAIL
SCALE: NTS

1

H2B, INC.
Texas Firm Registration No. 8856
1225 N Loop W, Suite 800
HOUSTON, TX 77008
713.864.2900

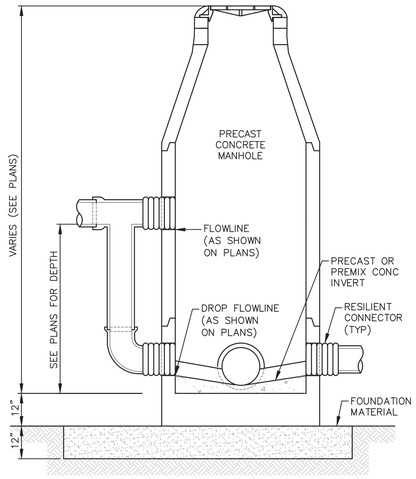
AMERICAN LEGION POST 490
11702 GALVESTON ROAD
HOUSTON, TEXAS 77034

STORM DETAILS
(2 OF 2)

STATE OF TEXAS
TRAVIS E. JAMES
124735
LICENSED
PROFESSIONAL ENGINEER
6/30/22

H2B PROJECT No. : 22-050
DESIGNED BY : TEJ
DRAWN BY : EEK, WS
SCALE: AS SHOWN
SHEET No. 16 OF 21 SHEETS

C5.02



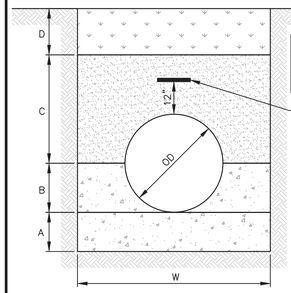
NOTES:

1. INSTALL DROP CONNECTION WHEN SEWER LINE ENTERS MANHOLE HIGHER THAT 24–INCHES ABOVE INVERT OF MANHOLE.
2. BACKFILL DROP ASSEMBLY WITH CRUSHED STONE WRAPPED IN FILTER FABRIC, CEMENT STABILIZED SAND, OR CLASS A CONCRETE TO FORM SOLID MASS. EXTEND STABILIZED SAND OR CONCRETE ENCASEMENT MINIMUM OF 4–INCHES OUTSIDE BELLS.

SANITARY SEWER DROP DETAIL

SCALE: NTS

6



TRENCH WIDTH		
PIPE	SIZE	WIDTH
PVC	ALL	OD + 8" MIN

CONTINUOUS U/G WARNING TAPE 12–INCHES DIRECTLY OVER WATER LINE. WARNING TAPE SHALL BE STANDARD, 4 MIN POLYETHYLENE, 3–INCH WIDE TAPE, DETECTABLE TYPE, BLUE WITH BLACK LETTERS AND IMPRINTED WITH "CAUTION BURIED WATER LINE BELOW".

A = BEDDING
B = HAUNCH
C = BACKFILL (INITIAL)
D = BACKFILL (SECONDARY)
W = TRENCH WIDTH
OD = PIPE OUTSIDE DIAMETER
PVC = POLYVINYL CHLORIDE

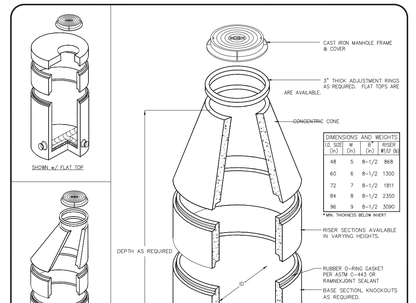
NOTES:

1. BACKFILL FOR WATER LINES 4" AND LARGER TO BE PER NOTES A THRU D.
   A) BANK SAND 6" BELOW PIPE.
   B) BANK SAND PLACED AFTER PIPE IS LAID, TO BE THOROUGHLY RODDED AND BROUGHT TO SPRINGLINE OF PIPE.
   C) INITIAL BACKFILL WHEN UNDER OR WITHIN 1' OF PROPOSED PAVING OR SIDEWALK, TO BE BANK SAND, THOROUGHLY RODDED, BROUGHT TO 6" ABOVE PIPE.
   D) IF SECONDARY BACKFILL IS UNDER OR WITHIN 1' OF PROPOSED OR FUTURE PAVING, BACKFILL TO BE SANDY CLAY PLACED IN 8" LOOSE LIFTS AND COMPACTED BY LIFTS TO 95% OF THE STANDARD PROCTOR. SECONDARY BACKFILL TO BE FILLED NEXT DAY AFTER PIPE INSTALLATION.
2. BACKFILL FOR WATER LINES 3" AND SMALLER TO BE SELECT BACKFILL PLACED IN 8" LOOSE LIFTS AND COMPACTED TO 95% SPD IN PAVED AREA AND TO 90% SPD IN UNPAVED AREAS.
3. BACKFILL FOR UTILITY TRENCHES OUTSIDE THE PROPOSED OR FUTURE PAVING AREAS TO BE SELECT EARTH PLACED IN 8" LOOSE LIFTS AND COMPACTED TO 90% STANDARD PROCTOR PER ASTM D 698.

WATERLINE BEDDING & BACKFILL DETAIL

SCALE: NTS

4



DIMENSIONS AND WEIGHTS			
ID SIZE (in)	W (in)	'B' (in)	RISER WT.lbs
48	5	8-1/2	868
60	6	8-1/2	1300
72	7	8-1/2	1811
84	8	8-1/2	2350
96	9	8-1/2	3090

*MIN. THICKNESS BELOW INVERT

NOTES
1. LIFTING INSERTS AS REQUIRED.
2. ALL JOINTS SHALL BE SEALED WITH RUBBER O-RING GASKET OR RAM-NEK JOINT SEALANT
3. STRUCTURE TO BE PLACED ON MIN. 6" STABILIZED BASE.

OPTIONS
- STEPS
- EXTENDED LIP BASE
- COATINGS
- PIPE BOOTS
- BOTTOM
- INVERTS

Specifications

CONCRETE : Class 1 concrete with of design strength of 4500 PSI at 28 days. Rated for H-20 loading.

REINFORCEMENT: Structural reinforcement conforming to ASTM-C-478.

CI. CASTINGS: Cast iron frames and grates are manufactured of grey cast iron conforming to ASTM A48-76 Class 30.

PARK ENVIRONMENTAL EQUIPMENT 888-611-PARK www.park-USA.com "Expect the Best"

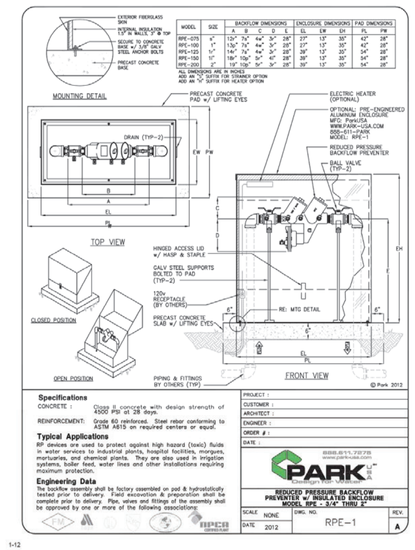
PRECAST CONCRETE MANHOLE FOR SANITARY SEWER

NONE | 10/06 | PCMHIN-6 | A

PRECAST CONC SAN SWR MH DETAIL

SCALE: NTS

2



MODEL	SIZE	BACKFLOW DIMENSIONS A	B	C	D	E	ENCLOSURE DIMENSIONS EL	EW	EH	PAD DIMENSIONS PL	PW
RPE-075	¾"	13¼"	7¼"	6¼"	3¼"	24"	27"	13"	35"	42"	28"
RPE-100	1"	13⅝"	7¼"	6¼"	3¼"	28"	27"	13"	35"	42"	28"
RPE-125	1¼"	14"	7¼"	6¼"	3¼"	28"	28"	13"	35"	54"	28"
RPE-150	1½"	18"	10¼"	9"	4"	28"	28"	13"	35"	54"	28"
RPE-200	2"	19"	10⅝"	9"	4"	28"	28"	13"	35"	54"	28"

ALL DIMENSIONS ARE IN INCHES
ADD 6" TO EW FOR HEATER OPTION
ADD AN "X" SUFFIX FOR HEATER OPTION

Specifications

CONCRETE : Class II concrete with design strength of 4500 PSI at 28 days.

REINFORCEMENT: Grade 60 reinforced. Steel rebar conforming to ASTM A615 on required centers or equal.

Typical Applications

RP devices are used to protect against high hazard (toxic) fluids in water services to industrial plants, hospital facilities, morgues, mortuaries, and chemical plants. They are also used in irrigation systems, boiler feed, water lines and other installations requiring maximum protection.

Engineering Data

The backflow assembly shall be factory assembled on pad & hydrostatically tested prior to delivery. Field assembly & pipe connection shall be complete prior to delivery. Pipe, valves and fittings for the assembly shall be approved by one or more of the following associations:

PROJECT :
CUSTOMER :
ARCHITECT :
ENGINEER :
ORDER # :
DATE :

PARK ENVIRONMENTAL EQUIPMENT 888-611-7275 www.parkusa.com

REDUCED PRESSURE BACKFLOW PREVENTER w/ INSULATED ENCLOSURE MODEL RPE - 3/4" THRU 2"

SCALE: NONE | DWG. NO. RPE-1 | REV. A

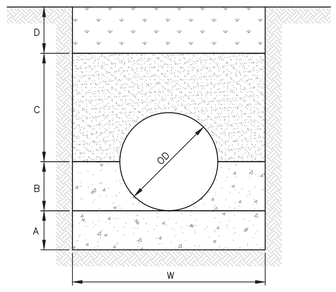
DATE 2012

1-12

RPZ BFP DETAIL

SCALE: NTS

5



TRENCH WIDTH		
PIPE	SIZE	WIDTH
PVC	ALL	OD + 8" MIN

A = BEDDING
B = HAUNCH
C = BACKFILL (INITIAL)
D = BACKFILL (SECONDARY)
W = TRENCH WIDTH
OD = PIPE OUTSIDE DIAMETER
PVC = POLYVINYL CHLORIDE

A) 7" THICKNESS OF CEMENT STABILIZED SAND PLACED BEFORE PIPE IS LAID. SHAPE SAND TO CONFORM TO BOTTOM OF PIPE. MAINTAIN 4" MINIMUM THICKNESS OF SAND BELOW PIPE.

B) CEMENT STABILIZED SAND PLACED AFTER PIPE IS LAID, TO BE THOROUGHLY RODDED AND BROUGHT TO SPRINGLINE OF PIPE.

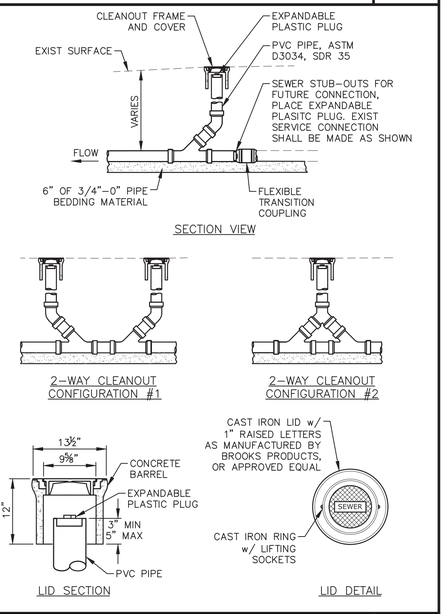
C) INITIAL BACKFILL WHEN UNDER OR WITHIN 1' OF PROPOSED PAVING OR SIDEWALK, TO BE CEMENT STABILIZED SAND, THOROUGHLY RODDED, BROUGHT TO 6" ABOVE PIPE.

D) IF SECONDARY BACKFILL IS UNDER OR WITHIN 1' OF PROPOSED OR FUTURE PAVING, BACKFILL TO BE SANDY CLAY PLACED IN 8" LOOSE LIFTS AND COMPACTED BY LIFTS TO 95% OF THE STANDARD PROCTOR. SECONDARY BACKFILL TO BE FILLED NEXT DAY AFTER PIPE INSTALLATION.

SANITARY BEDDING & BACKFILL DETAIL

SCALE: NTS

3



CLEANOUT DETAIL

SCALE: NTS

1

REV	DESCRIPTION	DATE
0	ISSUE FOR PERMIT	06/30/2022

H2B, INC.
Texas Firm Registration No. 8856
1225 N Loop W, Suite 800
HOUSTON, TX 77008
713.864.2900

AMERICAN LEGION POST 490
11702 GALVESTON ROAD
HOUSTON, TEXAS 77034

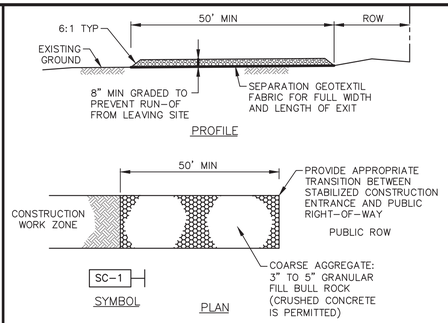
UTILITY DETAILS

STATE OF TEXAS
TRAVIS E. JAMES
124735
LICENSED
PROFESSIONAL ENGINEER
6/30/22

H2B PROJECT No. : 22-050
DESIGNED BY : TEJ
DRAWN BY : EEK, WS
SCALE: AS SHOWN
SHEET No. 17 OF 21 SHEETS

C5.03

PLOTTED ON: 06/30/2022 5:36pm FILE: C:\Users\wades\ACCDocs\H2B, Inc\American Legion Post 490\Project Files\H2B Production\Civil\C5.03 – UTLITY DETAILS.dwg

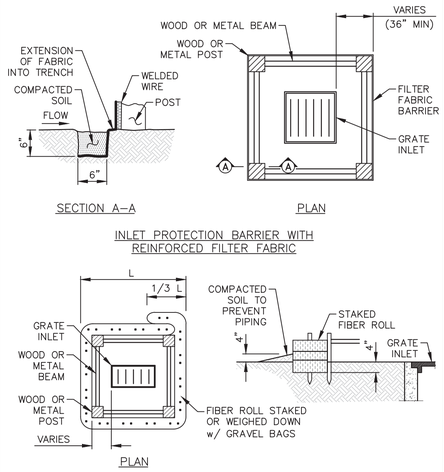


NOTES:

1. MINIMUM LENGTH IS AS SHOWN ON CONSTRUCTION DRAWINGS OR 50 FEET, WHICHEVER IS MORE.
2. CONSTRUCT AND MAINTAIN CONSTRUCTION EXIT WITH CONSTANT WIDTH ACROSS ITS LENGTH, INCLUDING ALL POINTS OF INGRESS OR EGRESS.
3. UNLESS SHOWN ON THE CONSTRUCTION DRAWINGS, STABILIZATION FOR OTHER AREAS WILL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION EXIT.
4. WHEN SHOWN ON THE CONSTRUCTION DRAWINGS, WIDEN OR LENGTHEN STABILIZED AREA TO ACCOMMODATE A TRUCK WASHING AREA. PROVIDE OUTLET SEDIMENT TRAP FOR THE TRUCK WASHING AREA.
5. PROVIDE PERIODIC TOP DRESSING WITH ADDITIONAL COARSE AGGREGATE TO MAINTAIN THE REQUIRED DEPTH OR WHEN SURFACE BECOMES PACKED WITH MUD. PERIODICALLY TURN AGGREGATE TO EXPOSE A CLEAN DRIVING SURFACE.
6. MINIMUM 14' WIDTH FOR ONE WAY TRAFFIC AND 20' WIDTH FOR TWO WAY TRAFFIC.

STABILIZED CONSTRUCTION ACCESS 5

SCALE: NTS

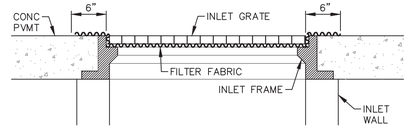


NOTES:

1. FIBER ROLLS WILL BE UTILIZED ONLY WHEN SITE CONDITIONS DO NOT PERMIT THE USE OF FILTER FABRIC BARRIER, AND AS APPROVED BY THE ENGINEER.

INLET PROTECTION BARRIER 4

SCALE: NTS

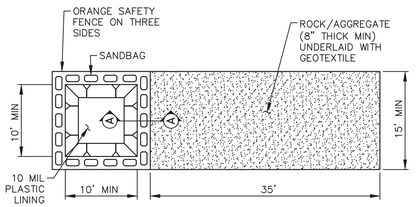


NOTES:

1. CONTRACTOR TO SECURE FILTER FABRIC TO GRATE.
2. INLET PROTECTION BARRIERS SHOULD BE PERODICALLY INSPECTED TO ENSURE POSITIVE DRAINAGE, AND SHOULD BE CLEANED/REPLACED AS NECESSARY.

INLET PROTECTION BARRIER 2

SCALE: NTS

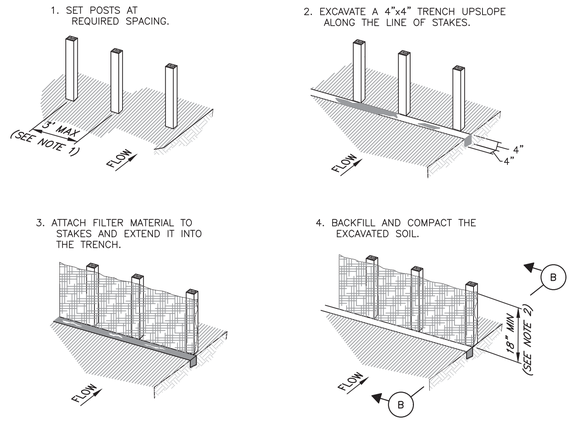


NOTES:

1. POST A SIGN READING "CONCRETE WASHOUT PIT" NEXT TO THE PIT.
2. VERBALLY INSTRUCT THE CONCRETE TRUCK DRIVERS WHERE THE PIT IS AND TO WASHOUT THEIR TRUCKS IN THE PIT AND NOWHERE ELSE.
3. UPON THE CONCRETE SETTING UP (CURING, DRYING OUT), THE CONCRETE WASTE SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF PROPERLY BY THE CONTRACTOR. AFTER REMOVAL OF THE CONCRETE WASTE, THE WASHOUT PIT SHALL BE FILLED WITH CLEAN FILL MATERIAL AND COMPACTED TO IN-SITU CONDITIONS, OR AS DIRECTED BY THE PROJECT SPECIFICATIONS.
4. CONCRETE WASHOUT PITS SHALL NOT BE LOCATED DIRECTLY ADJACENT TO, NOR AT ANY TIME DRAIN INTO THE STORM SEWER SYSTEM OR ANY OTHER SWALE, DITCH, OR WATERWAY.
5. CONSTRUCT ENTRY ROAD AND BOTTOM OF WASHOUT AREA TO SUPPORT EXPECTED LOADINGS FROM TRUCKS EQUIPMENT.

CONCRETE TRUCK WASHOUT AREA 6

SCALE: NTS

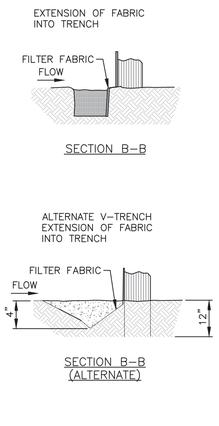


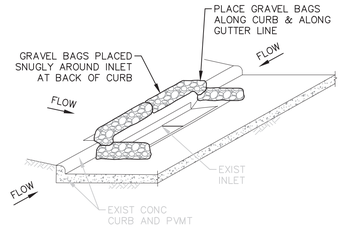
NOTES:

1. 2 INCH THICK BY 2 INCH WOODEN STAKES TO BE SET AT MAX SPACING OF 3 FEET AND EMBEDDED A MIN OF 8 INCHES. IF PREASSEMBLED FENCE WITH SUPPORT NETTING IS USED, SPACING OF POST MAY BE INCREASED TO 8 FEET MAX.
2. ATTACH FILTER FABRIC TO WOODEN STAKES. FILTER FABRIC FENCE SHALL HAVE A MIN HEIGHT OF 18 INCHES AND MAX HEIGHT OF 36 INCHES ABOVE NATURAL GROUND.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHOULD BE OVERLAPPED 6 INCHES AT THE POSTS, AND FOLDED.

FILTER FABRIC FENCE DETAILS 3

SCALE: NTS





NOTES:

1. REMOVE SEDIMENT DEPOSIT WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-THIRD THE HEIGHT OF THE BARRIER.
2. GRAVEL BAGS SHALL NOT BLOCK THROAT OF INLET UNLESS DIRECTED BY ENGINEER.

INLET PROTECTION BARRIER 1

SCALE: NTS

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HOUSTON, TX 77008
713.864.2900

AMERICAN LEGION POST 490
11702 GALVESTON ROAD
HOUSTON, TEXAS 77034

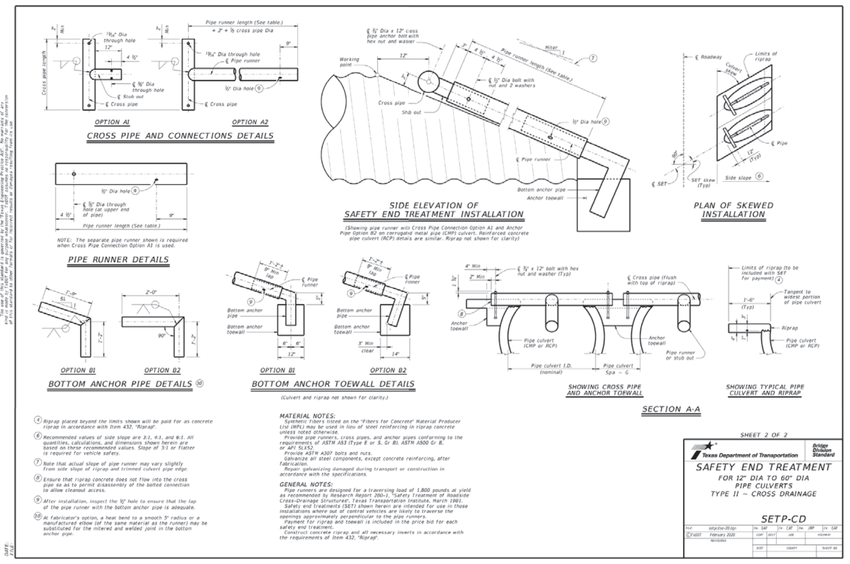
SWPPP DETAILS

STATE OF TEXAS
TRAVIS E. JAMES
124735
LICENSED
PROFESSIONAL ENGINEER
6/30/22

H2B PROJECT No. : 22-050
DESIGNED BY : TEJ
DRAWN BY : EEK, WS
SCALE: AS SHOWN
SHEET No. 18 OF 21 SHEETS

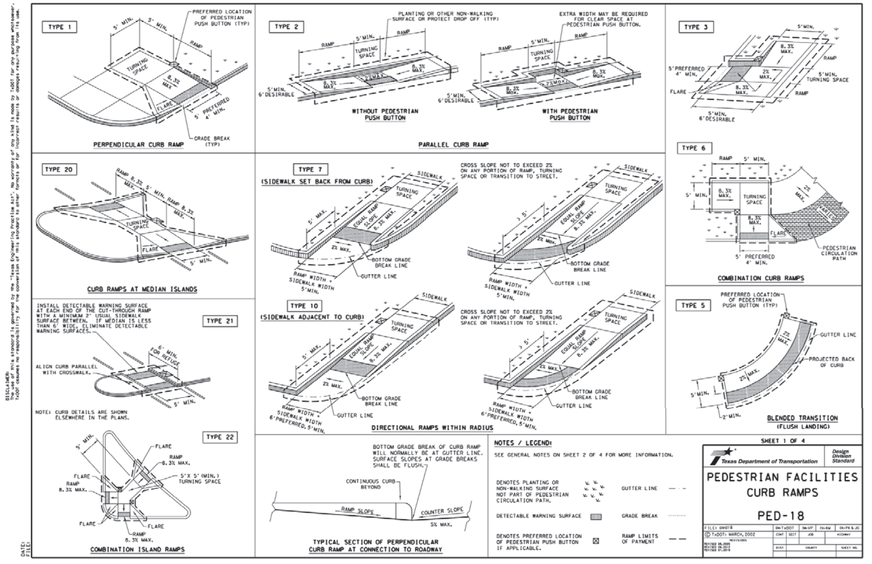
C5.04

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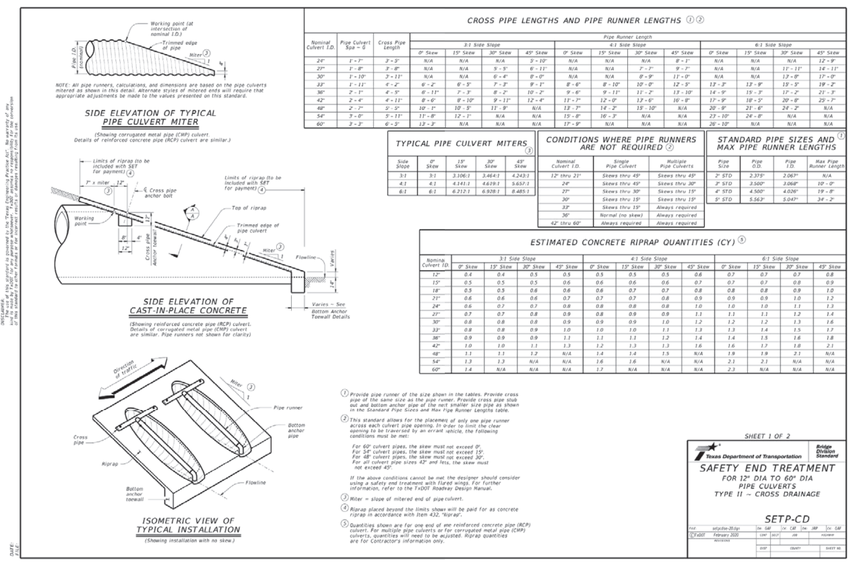
TXDOT STANDARD SAFETY END TREATMENT DETAILS
SCALE: NTS

4



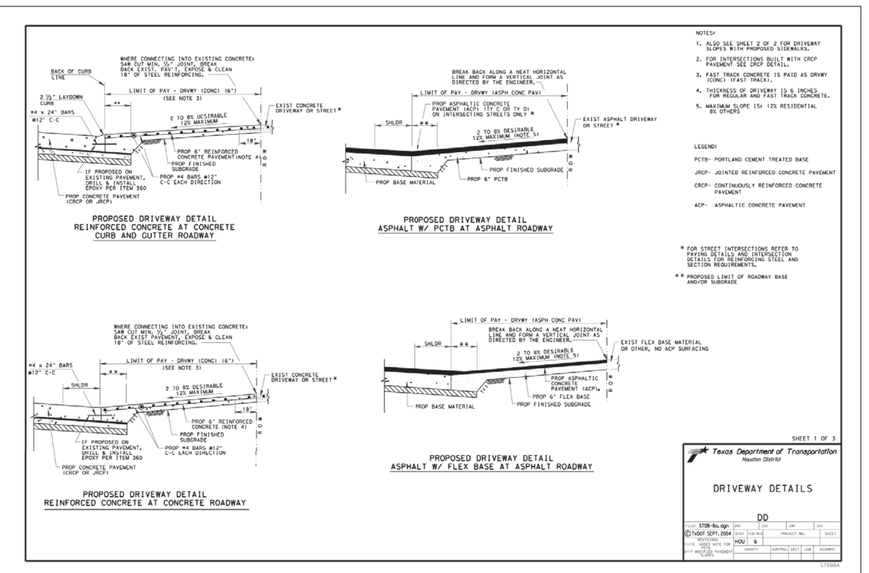
TXDOT STANDARD CURB RAMP DETAILS
SCALE: NTS

2



TXDOT STANDARD SAFETY END TREATMENT DETAILS
SCALE: NTS

3



TXDOT STANDARD DRIVEWAY DETAILS
SCALE: NTS

1

REV	DESCRIPTION	DATE
0	ISSUE FOR PERMIT	06/30/2022

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Texas Firm Registration No. 8856
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HOUSTON, TX 77008
713.864.2900

AMERICAN LEGION POST 490
11702 GALVESTON ROAD
HOUSTON, TEXAS 77034

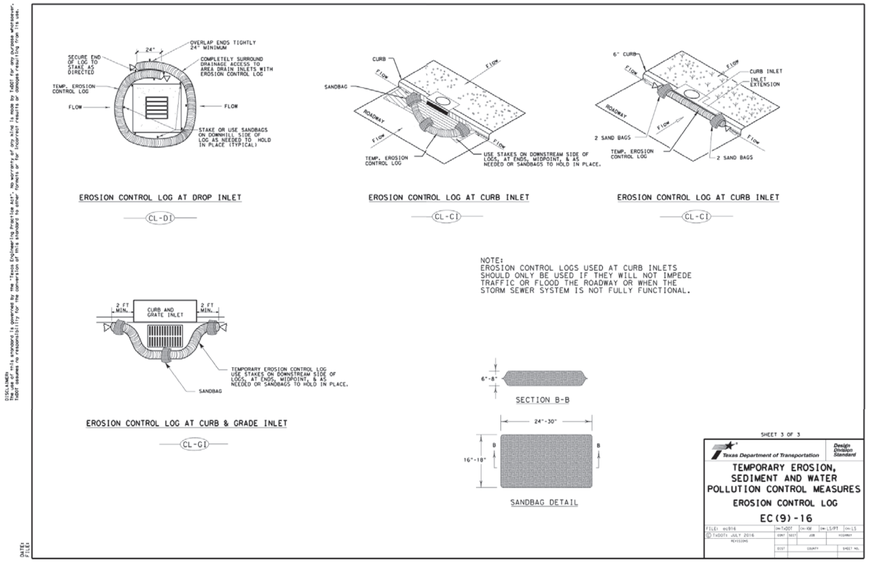
TXDOT DETAILS

TRAVIS E. JAMES
124735
LICENSED
PROFESSIONAL ENGINEER
6/30/22

H2B PROJECT No. : 22-050
DESIGNED BY : TEJ
DRAWN BY : EEK, WS
SCALE: AS SHOWN
SHEET No. 19 OF 21 SHEETS

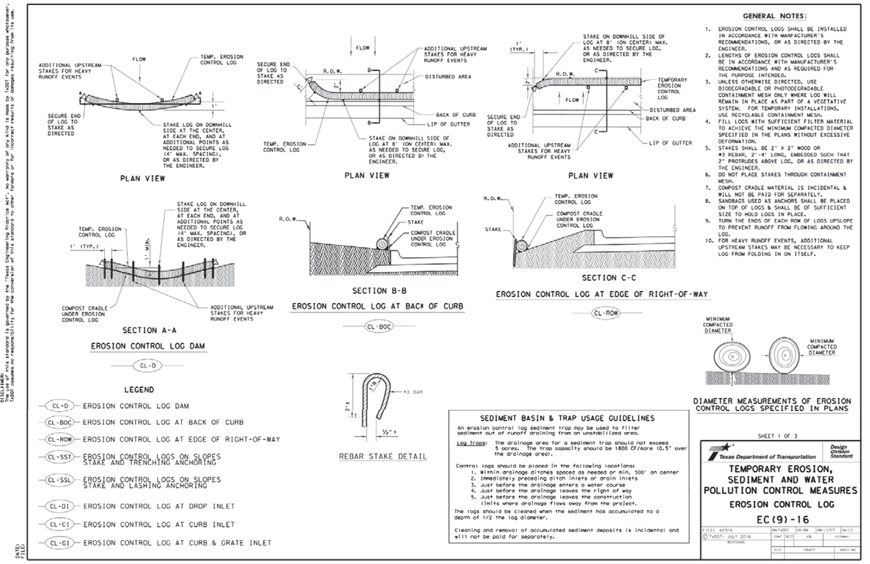
C5.05

PLOTTED ON: 06/30/2022 5:41pm FILE: C:\Users\wades\ACCDocs\H2B, Inc\American Legion Post 490\Project Files\H2B Production\Civil\C5.05 – TXDOT DETAILS (1 OF 2).dwg



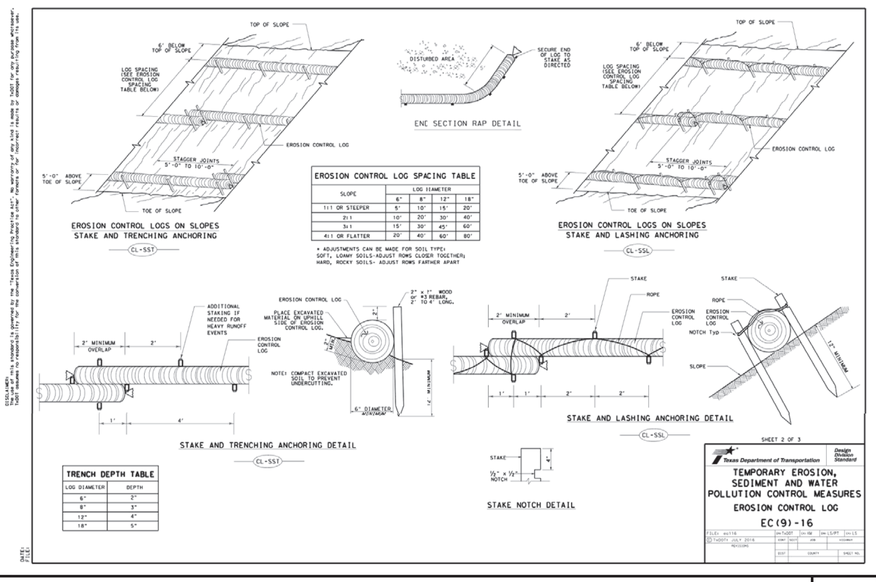
TXDOT STANDARD EROSION & WATER POLLUTION CONTROL DETAILS
SCALE: NTS

4



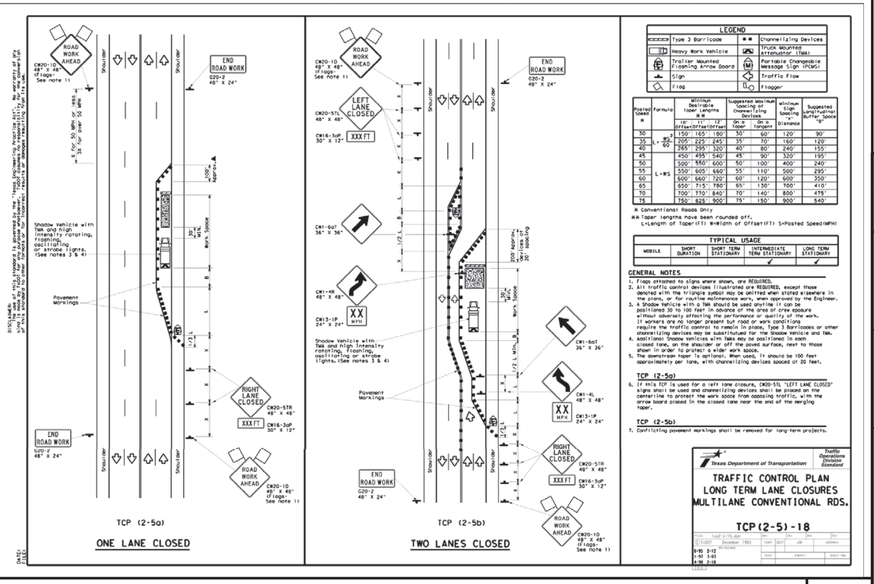
TXDOT STANDARD EROSION & WATER POLLUTION CONTROL DETAILS
SCALE: NTS

2



TXDOT STANDARD EROSION & WATER POLLUTION CONTROL DETAILS
SCALE: NTS

3



TXDOT TRAFFIC CONTROL PLAN
SCALE: NTS

1

REV	DESCRIPTION	DATE
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HOUSTON, TX 77008
713.864.2900

AMERICAN LEGION POST 490
11702 GALVESTON ROAD
HOUSTON, TEXAS 77034

TXDOT DETAILS (2 OF 2)

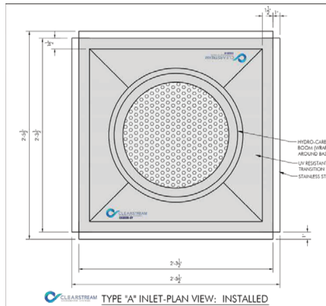
STATE OF TEXAS
TRAVIS E. JAMES
124735
LICENSED
PROFESSIONAL ENGINEER
6/30/22

H2B PROJECT No. : 22-050
DESIGNED BY : TEJ
DRAWN BY : EEK, WS
SCALE: AS SHOWN
SHEET No. 20 OF 21 SHEETS

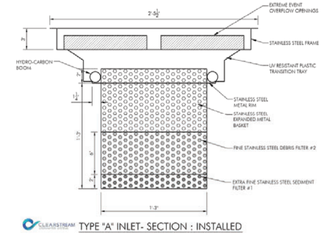
C5.06

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PLOTTED ON: 06/30/2022 6:31pm FILE: C:\Users\wades\ACCDocs\H2B Inc\American Legion Post 490\Project Files\H2B Production\Civil\C5.07 – SWQ DETAILS.dwg



TYPE "A" INLET-PLAN VIEW: INSTALLED



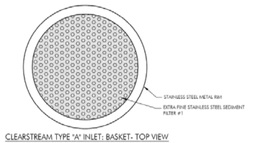
TYPE "A" INLET- SECTION : INSTALLED

FLOW SPECIFICATIONS

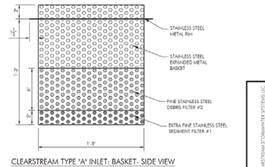
FILTER	PERCENT OPEN	TOTAL SQUARE INCHES	SQUARE INCHES OF OPENINGS	FLOW RATE (CFS)
COARSE	80	144	115	3.77
MEDIUM	24	141	42	2.08
FINE	15	223	29	1.27
		TREATED FLOW RATE		8.09
		OVER FLOW RATE		3.73

CITY OF HOUSTON 2-YEAR EVENT

AREA (AC)	RUN-OFF COEFFICIENT	RAINFALL INTENSITY (I) (IN/HR)	FLOW RATE (CFS)
0.5	0.8	3.69	1.40
0.75	0.8	3.44	2.06
1.0	0.8	3.41	2.73
FLOW RATE CAPACITY OF A TYPE A INLET (TYPICAL MAXIMUM DRAINAGE AREA FOR TYPE 'A' INLET IS 1 ACRE)			5.0



CLEARSTREAM TYPE "A" INLET: BASKET- TOP VIEW



CLEARSTREAM TYPE "A" INLET: BASKET- SIDE VIEW

CLEARSTREAM TYPE "A" INLET: BASKET

Clearstream Inlet Filter Basket

The Clearstream Inlet Filter Basket is a permanent storm water quality inlet-based filtration device designed to capture silt, sediment, gross pollutants, and hydrocarbons from rainwater runoff. Because these units are installed under the storm grate in parking areas and driveways, they are designed to handle H-20 loading by utilizing 14ga stainless steel frame to support the unit. Framing members are welded for additional support and structural integrity. The transition tray is fabricated with a single ½" thick vacuum molded UV resistant plastic which is both rigid and light designed to support the filter basket without adding any unnecessary weight. Additionally, the tray includes a recessed area to accept a standard 5" hydrocarbon boom, eliminating the need to use any proprietary filtration devices to satisfy hydrocarbon filtration required by most storm water regulations. The filter basket is constructed of 304 stainless steel which will not rust, corrode or warp under normal use. All screens are made of 304 stainless to create a basket that will last for decades if properly maintained. All Clearstream filters and associated components carry a 5-year warranty against manufacturing defects.

CLEARSTREAM STORMWATER SYSTEMS
MODEL: CS3030-ST
CLEARSTREAM STORMWATER SYSTEMS LLC. THESE DRAWINGS ARE THE PROPERTY OF CLEARSTREAM STORMWATER SYSTEMS LLC. ANY REPRODUCTION OR USE OF THESE DRAWINGS, DESIGNS, AND/OR ARTWORK NOT USED IN CONJUNCTION WITH THE PURCHASE OF CLEARSTREAM STORMWATER SYSTEMS IS PROHIBITED.

INLET SKIMMER BASKET DETAIL
SCALE: NTS

1

REV	DESCRIPTION	DATE
0	ISSUE FOR PERMIT	06/30/2022

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1225 N Loop W, Suite 800
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11702 GALVESTON ROAD
HOUSTON, TEXAS 77034

SWQ DETAILS

STATE OF TEXAS
TRAVIS E. JAMES
124735
LICENSED
PROFESSIONAL ENGINEER
6/30/22

H2B PROJECT No. : 22-050
DESIGNED BY : TEJ
DRAWN BY : EEK, WS
SCALE: AS SHOWN
SHEET No. 20 OF 21 SHEETS

C5.07

GENERAL NOTES

THE STRUCTURAL DRAWINGS DEPICT THE STRUCTURE IN ITS FINAL CONSTRUCTED CONFIGURATION. NEITHER CONSTRUCTION MEANS AND METHODS NOR CONSTRUCTION SAFETY ARE PART OF THE STRUCTURAL ENGINEER'S EXPERTISE OR SCOPE OF WORK. THE GENERAL CONTRACTOR AND THEIR SUBCONTRACTORS ARE FULLY RESPONSIBLE FOR THE MEANS AND METHODS USED TO CONSTRUCT THE STRUCTURE AND FOR FULL COMPLIANCE WITH ALL JOB SAFETY RELATED REGULATIONS AND CONDITIONS AT THE SITE. LIMITED SITE VISITS, IF ANY, BY THE STRUCTURAL ENGINEER ARE SOLELY TO OBSERVE COMPLETED PARTS OF THE STRUCTURE. THE STRUCTURAL ENGINEER IS NEITHER QUALIFIED TO OBSERVE NOR COMMENT ON CONSTRUCTION MEANS AND METHODS AND JOB SITE SAFETY.

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO FABRICATION/CONSTRUCTION. NOTIFY STRUCTURAL ENGINEER AND ARCHITECT OF ANY DISCREPANCIES PRIOR TO FABRICATION/CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ALL WORK FITTING AS INTENDED BY THE DRAWINGS AND SPECIFICATIONS.

PRINCIPAL OPENINGS ARE SHOWN ON THE DRAWINGS. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR OPENINGS, SLEEVES, CURBS, INSERTS, DEPRESSIONS, ETC. NOT SHOWN.

ALL DETAILS ARE TYPICAL UNLESS NOTED OTHERWISE. DETAILS SHALL APPLY TO SIMILAR AND LIKE CONDITIONS.

SHOP DRAWINGS SHALL BE NEW DRAWINGS PRODUCED BY THE CONTRACTOR, ILLEGIBLE REPRODUCTIONS OF THE DESIGN DRAWINGS WILL BE REJECTED. ELECTRONIC FILES MAY BE PURCHASED FROM THE ENGINEER OF RECORD FOR THE PURPOSE OF PREPARING SHOP DRAWINGS. THE CONTRACTOR WILL BE REQUIRED TO SIGN AN INDEMNITY STATEMENT AND FEES FOR THE ELECTRONIC FILES SHALL BE PAID IN FULL PRIOR TO TRANSMISSION OF THE ELECTRONIC FILES TO THE CONTRACTOR. THE USE OF REPRODUCTIONS OF THESE CONTRACT DRAWINGS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES THEIR ACCEPTANCE OF ALL INFORMATION SHOWN HEREIN AS CORRECT, AND OBLIGATES THEMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS OR OMISSIONS THAT MAY OCCUR HEREIN.

MINIMUM SHOP DRAWING SUBMITTAL REQUIREMENTS INCLUDE:

CONCRETE MIX DESIGNS FOR EACH CLASS OF CONCRETE WITH TEST DATA
CONCRETE ACCESSORIES (VAPOR BARRIER, REINFORCING SUPPORT CHAIRS, ETC.)
CONCRETE REINFORCING SHOP DRAWINGS
PRE-ENGINEERED METAL BUILDING DRAWINGS (SEALED BY A LICENSED PROFESSIONAL ENGINEER)

CRANES, CONCRETE TRUCKS AND ALL OTHER HEAVILY LOADED VEHICLES ARE NOT TO BE DRIVEN ACROSS GRADE BEAMS OR BUILDING SLABS.

ERECTION OF STRUCTURAL STEEL MAY NOT BEGIN UNTIL CONCRETE FOUNDATION HAS CURED FOR A MINIMUM OF THREE (3) DAYS. STRUCTURAL STEEL OR OTHER HEAVY LOADS SHALL NOT BE STOCKPILED ON ANY SLAB UNTIL IT HAS CURED FOR A MINIMUM OF THREE (3) DAYS.

NOTE THAT THE GROUND FLOOR SLAB IS A GROUND SUPPORTED SLAB AT GRADE AS PER THE DESIGN RECOMMENDED IN THE SOIL REPORT. IT IS NOT A STRUCTURAL SLAB AND AS SUCH IS NOT DESIGNED FOR ANY EXTERNAL UPWARD OR DOWNWARD LOADS, IT IS INTENDED TO BE ENTIRELY SUPPORTED BY THE PREPARED GROUND UNDER THE SLAB. THE CONTRACTOR SHOULD NOTE THAT THE PERFORMANCE OF THE SLAB AS DESIGNED AND INTENDED BY THE SOIL ENGINEER IS HIGHLY DEPENDENT ON MANY ENVIRONMENTAL CONDITIONS OVER WHICH THE OWNER HAS CONTROL AFTER THE OCCUPANCY OF THE BUILDING. THE CONTRACTOR AND THE OWNER SHOULD CONSULT WITH THE SOIL ENGINEER IF THERE ARE ANY QUESTIONS CONCERNING CONSTRUCTION, PERFORMANCE AND RISKS INVOLVED IN GROUND SUPPORTED SLAB AT GRADE CONSTRUCTION.

BUILDING CODE: INTERNATIONAL BUILDING CODE, 2015 EDITION

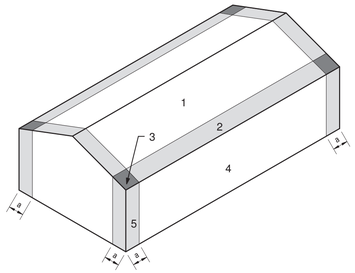
DEAD LOAD:
ANY CHANGES IN CONSTRUCTION MATERIALS FROM THOSE SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS SHALL BE REPORTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF LOAD CARRYING CAPACITY OF THE STRUCTURE.

LIVE LOAD:
ROOF: 20 PSF

LIVE LOAD REDUCTIONS HAVE BEEN APPLIED IN ACCORDANCE WITH THE BUILDING CODE, UNLESS NOTED OTHERWISE.

WIND LOAD:
INTERNATIONAL BUILDING CODE, 2015 EDITION w/ CITY OF HOUSTON AMENDMENTS

VELOCITY (ULT) : 141 MPH THREE SECOND GUST
EXPOSURE: C
RISK CATEGORY: II
INTERNAL PRESSURE COEFFICIENT, Gcpi: +/- 0.18



a = 10'-0"

ROOF DESIGN GROSS PRESSURES, WIND ONLY (PSF)			
ZONE	EFFECTIVE WIND AREA ft²		
	20 ft²	50 ft²	100 ft²
1	+/- 50	+/- 50	+/- 45
2	+/- 75	+/- 65	+/- 55
3	+/- 105	+/- 75	+/- 55

WALL DESIGN GROSS PRESSURES, WIND ONLY (PSF)			
ZONE	EFFECTIVE WIND AREA ft²		
	20 ft²	50 ft²	100 ft²
4	+/- 55	+/- 50	+/- 50
5	+/- 65	+/- 55	+/- 55

SEISMIC LOAD:

RISK CATEGORY:	II
SEISMIC IMPORTANCE FACTOR (I):	1.0
MAPPED SPECTRAL RESP ACCEL (Ss/S1):	0.071g/0.038g
SITE CLASS:	D
SPECTRAL RESPONSE COEFF (Sds/Sd1):	0.076g/0.061g
SEISMIC DESIGN CATEGORY:	A
SEISMIC FORCE RESISTING SYSTEM:	RE: PEMB MANUF
DESIGN BASE SHEAR:	RE: PEMB MANUF
SEISMIC RESPONSE COEFF (Cs):	RE: PEMB MANUF
RESPONSE MODIFICATION COEFFICIENT (R):	RE: PEMB MANUF
ANALYSIS PROCEDURE USED:	RE: PEMB MANUF

ALLOWABLE SOIL BEARING CAPACITY (AT 14'-0" BELOW EXISTING GRADE, PER GEOTECHNICAL REPORT)

DEAD LOAD:	3000 PSF
TOTAL LOAD:	4500 PSF

EARTHWORK

1. WHERE CONSTRUCTION DOCUMENT REQUIREMENTS DIFFER FROM THE PROJECT SPECIFIC GEOTECHNICAL REPORT, THE MORE STRINGENT OF THE TWO SHALL GOVERN.
2. SITE PREPARATION FOR THE BUILDING PAD SHALL CONSIST OF THE REMOVAL OF EXISTING TOPSOIL, DEBRIS, AND ANY OTHER DELETERIOUS MATERIAL AS NECESSARY TO PROVIDE THE REQUIRED AMOUNT OF FILL UNDER THE BUILDING AND EXTENDING OUT A MINIMUM OF 5'-0" BEYOND THE PERIMETER OF THE BUILDING.
3. THE SUBGRADE SHALL BE PROOFROLLED WITH A HEAVY, RUBBER-TIRED VEHICLE (STATIC WEIGHT OF AT LEAST 20 TONS AND WITH TIRE PRESSURES OF AT LEAST 90 PSI). THE CONTRACTOR SHALL MAKE AT LEAST TWO COMPLETE PASSES OVER THE AREA WITH THE SECOND PASS PERPENDICULAR TO THE FIRST PASS. AREAS OF THE SUBGRADE THAT ARE OBSERVED TO BE SOFT OR WEAK SHALL BE OVEREXCAVATED AND REPLACED WITH PROPERLY COMPACTED SELECT FILL.
4. SUBGRADE SHALL THEN BE SCARIFIED AND MOISTURE CONDITIONED TO AN EIGHT (8) INCH DEPTH AND THEN RECOMPACTED TO BETWEEN 95 AND 100 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR DENSITY TEST (ASTM D698). THE MOISTURE CONTENT SHALL BE BETWEEN OPTIMUM AND +3 PERCENT OF THE OPTIMUM MOISTURE CONTENT. PROVIDE A MINIMUM OF FOUR (4) FIELD DENSITY TESTS ON THE SUBGRADE OR ONE (1) FOR EVERY 2,500 SQUARE FEET WHICHEVER IS GREATER.
5. SELECT FILL MATERIAL FOR THE BUILDING PAD SHALL BE LEAN CLAY WITH A LIQUID LIMIT LESS THAN 35 AND PLASTICITY INDEX BETWEEN 12 AND 20. STRUCTURAL SELECT FILL PAD MATERIAL SHALL BE TESTED FOR ACCEPTABILITY AND A MOISTURE DENSITY CURVE SHALL BE ESTABLISHED.
6. SELECT FILL SHALL BE PLACED IN MAXIMUM EIGHT (8) INCH LOOSE LIFTS AND COMPACTED TO 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR DENSITY TEST (ASTM D698). THE MOISTURE CONTENT SHALL BE BETWEEN -1 AND +3 PERCENT OF THE OPTIMUM MOISTURE CONTENT FOR SELECT FILL. SELECT FILL MATERIAL SHALL EXTEND TO 5'-0" BEYOND THE BUILDING PERIMETER. PROVIDE A MINIMUM OF (1) FIELD DENSITY TEST AND (1) MOISTURE TEST FOR EACH 2,500 SQ FT PER LIFT OF SELECT FILL, WITH A MINIMUM OF (2) TESTS PER LIFT.
7. SELECT FILL MATERIAL SHALL BE TESTED DURING PLACEMENT OF EACH LIFT FOR THE ATTERBERG LIMITS IN ACCORDANCE WITH ASTM D4318-98 METHOD B "STANDARD TEST METHOD FOR LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS" TO VERIFY THAT THE SELECT FILL MATERIAL IS IN ACCORDANCE WITH THE ORIGINALLY APPROVED SELECT FILL MATERIAL. PROVIDE A MINIMUM OF ONE (1) TEST PER DAY.
8. CONTRACTOR SHALL MAINTAIN A CLEAN EXCAVATION THAT IS FREE OF WATER 100 PERCENT OF THE TIME. CONTRACTOR SHALL PROVIDE PUMPS AS REQUIRED TO REMOVE ANY WATER AT ALL TIMES.
9. THE SITE SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE BUILDING PAD DURING BUILDING PAD INSTALLATION AND WHEN THE BUILDING PAD AND BUILDING ARE COMPLETED.
10. PLUMBING AND UTILITY TRENCHES WITHIN THE BUILDING PAD SHALL HAVE PIPING BEDDED ON 6" MINIMUM OF CEMENT STABILIZED SAND WITH 4" MINIMUM ALL AROUND. BACKFILL IN UTILITY TRENCHES SHALL CONSIST OF COMPACTED SELECT FILL. PROVIDE A BENTONITE PLUG FOR THE FULL DEPTH AND WIDTH OF THE UTILITY TRENCH TO A MINIMUM OF 1'-0" ABOVE THE BOTTOM OF THE FOUNDATION AT THE EXTERIOR FACE OF BUILDING FOUNDATIONS WHERE UTILITY TRENCHES ENTER THE BUILDING.
11. PROVIDE A MINIMUM SIX (6) INCH CLAY CAP FOR A MINIMUM OF 5'-0" AROUND THE PERIMETER OF THE BUILDING. THE CAP SHALL EXTEND AS REQUIRED TO COVER THE LIMITS OF THE EXCAVATION AND SELECT FILL BUILDING PAD MATERIALS.

FOUNDATIONS

1. PREPARED GRADE AREA UNDER ALL BUILDING SLABS AND GRADE BEAMS SHALL BE COVERED WITH A 15 MIL WATER VAPOR BARRIER MEETING THE REQUIREMENTS OF ASTM E 1745 (LATEST EDITION), CLASS A OR BETTER WITH MAXIMUM WATER PERMEANCE OF 0.01 PERMS WHEN TESTED IN ACCORDANCE WITH ASTM E96. THE WATER VAPOR BARRIER SHALL BE INSTALLED AND LAPPED AND TAPED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM E 1643 (LATEST EDITION). PENETRATIONS SHALL BE SEALED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
2. FOUNDATION DETAILING SHOWN ON THE DRAWINGS IS BASED ON A FOUNDATION DESIGN SPECIFIED IN THE SOIL REPORT COMPLETED BY PARADIGM CONSULTANTS, INC., REPORT NO. 22-1033, DATED MAY 09, 2022. THE RECOMMENDATIONS CONTAINED IN THE SOIL REPORT SHALL NOT SUPERCEDE THE REQUIREMENTS SHOWN ON THE DESIGN DRAWINGS OR IN THE SPECIFICATIONS WHEN THE REQUIREMENTS SHOWN IN THE DRAWINGS ARE GREATER THAN THOSE SHOWN IN THE GEOTECHNICAL REPORT. THE CONTRACTOR IS REQUIRED TO SECURE A COPY OF THE GEOTECHNICAL REPORT FROM THE OWNER AND HAVE A COPY ON THE JOB SITE AT ALL TIMES FOR THEIR USE AND REFERENCE.
3. FOUNDATION DETAILING SHOWN ON THE DRAWINGS IS BASED ON A MINIMUM OF THREE (3) FEET OF SELECT FILL MATERIAL BENEATH THE FLOOR SLAB AND EXTENDING 5'-0" BEYOND THE BUILDING PERIMETER.
4. ALL BACKFILL FOR BURIED PIPES AND CONDUIT WITHIN THE BUILDING PAD AND EXTENDING OUT MINIMUM 5'-0" BEYOND THE BUILDING SHALL BE BACKFILLED WITH SELECT FILL BACKFILL. DO NOT USE SAND BACKFILL. A BENTONITE PLUG SHALL BE PROVIDED FOR THE FULL DEPTH AND WIDTH OF ALL UTILITY TRENCHES TO A MINIMUM OF 1'-0" ABOVE THE BOTTOM OF THE FOUNDATION AT THE EXTERIOR FACE OF THE BUILDING FOUNDATION.
5. CONDUITS SHALL NOT BE PLACED IN THE CONCRETE SLAB. CONDUITS SHALL BE PLACED IN THE SELECT FILL MATERIAL BENEATH THE VAPOR BARRIER. ALL PENETRATIONS OF THE VAPOR RETARDER SHALL BE SEALED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
6. FOUNDATION WALL BACKFILL SHALL NOT BE UNBALANCED BY MORE THAN TWO (2) FEET ON EITHER SIDE AT ANY TIME. BASEMENT WALL AND RESTRAINED RETAINING WALL BACKFILL SHALL NOT BE PLACED UNLESS THE WALL IS ADEQUATELY BRACED. RETAINING WALL AND BASEMENT WALL BACKFILL SHALL BE FREE DRAINING GRANULAR BACKFILL ACCEPTABLE TO THE GEOTECHNICAL ENGINEER.
7. CONTRACTOR SHALL HAND TAMP BOTTOM OF EXCAVATIONS TO A HARD SURFACE BEFORE PLACING REINFORCING STEEL.
8. FOUNDATION CONTRACTOR TO ENSURE PROPER ANCHOR BOLT PROJECTION AND THAT ANCHOR BOLTS ARE HELD SECURELY IN POSITION PRIOR TO CONCRETE PLACEMENT. STRUCTURAL STEEL COLUMN ANCHOR BOLTS SHALL BE SET WITH A TEMPLATE.
9. SOIL BEARING TESTS SHALL BE PERFORMED BY A GEOTECHNICAL ENGINEER PRIOR TO INSTALLING FOOTINGS TO ENSURE DESIGN ALLOWABLE BEARING VALUES ARE MET. IF ACTUAL SITE CONDITIONS DO NOT SATISFY THESE REQUIREMENTS, COORDINATE ADJUSTMENTS WITH ARCHITECT/ENGINEER/GEOTECHNICAL ENGINEER.
10. CONTRACTOR SHALL PROVIDE A UNIT COST FOR REPLACING DRILLED FOOTINGS SHOWN WITH STRAIGHT SHAFT DRILL FOOTINGS IN THE EVENT FOOTING BELLS CAVE BEFORE CONCRETE CAN BE PLACED. UNIT COST SHALL INCLUDE EXCAVATION AND CONCRETE PLACEMENT. STRAIGHT SHAFTS SHALL HAVE THE SAME DIAMETER AS BELL SIZE SHOWN ON THE PLANS. VERTICAL REINFORCING SHALL BE THE SAME AS SCHEDULED FOR THE BELLED FOOTING.
11. CONTRACTOR SHALL BE PREPARED TO USE TEMPORARY CASING AS REQUIRED TO FINISH THE DRILLED FOOTINGS. CASING SIZE SHALL HAVE AN INTERIOR DIAMETER EQUAL TO THE SPECIFIED SHAFT SIZE SHOWN ON THE PLANS. CONTRACTOR SHALL PROVIDE A UNIT PRICE FOR A DRY DRILLED SHAFT AND FOR A CASED DRILLED SHAFT.
12. CONTRACTOR SHALL INSTALL TWO TEST FOOTINGS PRIOR TO INSTALLING THE REQUIRED FOOTINGS FOR THE PURPOSE OF DETERMINING THE GROUNDWATER LEVEL. IF A STABLE BELL CAN BE FORMED OR WHETHER STRAIGHT-SIDED FOOTINGS WILL BE REQUIRED. TEST FOOTINGS SHALL BE LOCATED AT BUILDING CORNERS AND AT THE CENTER OF THE BUILDING.
13. THE BUILDING SITE MAY HAVE SOME BURIED EXISTING FOUNDATIONS AND UTILITIES. IF THESE FOUNDATIONS OR UTILITIES ARE ENCOUNTERED DURING DRILLING OPERATIONS, THE SINGLE DRILLED FOOTING SHALL BE REPLACED WITH TWO SYMMETRICALLY PLACED FOOTINGS AND A STRAP BEAM TO BE DESIGNED BY THE ENGINEER. SEAL ANY UTILITY LINES DISCOVERED WITH CONCRETE.
14. ALL FOOTINGS SHALL BE CONSOLIDATED WITH A CONCRETE VIBRATOR AS PER THE REQUIREMENTS OF ACI 318 AND ACI 308R, LATEST EDITION.
15. FOOTINGS SHALL BE POURED IMMEDIATELY UPON COMPLETION OF EXCAVATION AND CLEANING OF FOOTING BEARING SURFACE. ALL SPOILS FROM THE DRILLED FOOTING EXCAVATIONS SHALL BE REMOVED FROM THE BUILDING PAD.
16. WHERE A DRILLED FOOTING IS SHOWN ON THE PLAN CLOSER THAN 6'-0" FROM ANOTHER FOOTING, DRILL ONE FOOTING, FILL WITH CONCRETE AND LET CURE 24 HOURS PRIOR TO DRILLING THE ADJACENT FOOTING. (6'-0" DIMENSION IS MEASURED BETWEEN EDGE OF BELL FOOTING NOT CENTER TO CENTER.)
17. TOPS OF DRILLED FOOTINGS SHALL NOT HAVE "MUSHROOMED" OR FLARED TOPS. CONTRACTOR SHALL USE SONATUBE, SURETOP, OR APPROVED EQUAL TO FORM TOP OF PIERS TERMINATED AT OR ABOVE GRADE LEVEL. CONCRETE OF FLARED FOOTINGS SHALL BE REMOVED PRIOR TO FORMING AND PLACING OF THE CONCRETE IN PIER CAPS OR GRADE BEAMS. TOPS OF ALL PIERS SHALL BE CLEANED PRIOR TO THE PLACEMENT OF CONCRETE.
18. PROVIDE A TREMIE TO PLACE CONCRETE IN DRILLED FOOTINGS SO THAT CONCRETE DOES NOT FREE FALL OVER 10'-0".
19. PROVIDE PIER SLEDS TO MAINTAIN 3" MINIMUM CLEAR COVER ON FOOTING SHAFT REINFORCING, PIER SLEDS SHALL BE STAGGERED ALONG THE VERTICAL REINFORCING. DO NOT PLACE SLEDS AT THE SAME LOCATION.

SITE DRAINAGE

1. DURING CONSTRUCTION, GRADE THE SITE TO PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS AND SLABS. WATER SHALL NOT BE ALLOWED TO POND ADJACENT TO THE BUILDING FOUNDATIONS OR SLABS.
2. DOWNSPOUTS FROM ROOF DRAINS AND GUTTERS SHALL BE COLLECTED AND PIPED AT LEAST 10'-0" AWAY FROM THE BUILDING, PREFERABLY THORUGH DRAINPIPES TO THE STORM SEWER.
3. FINAL SITE GRADING SHALL BE IN COMPLIANCE WITH THE INTERNATIONAL BUILDING CODE SECTION 1804.4. PERVIOUS SURFACES ADJACENT TO BUILDINGS SHALL SLOPE AWAY FROM BUILDING AT 5% MINIMUM FOR AT LEAST 10 FEET. IMPERVIOUS SURFACES ADJACENT TO BUILDINGS SHALL SLOPE AWAY FROM BUILDING AT 2% MINIMUM FOR AT LEAST 5 FEET.
4. TREES AND VEGETATION SHALL NOT BE ALLOWED WITHIN A DISTANCE EQUAL TO THREE QUARTERS THEIR ULTIMATE HEIGHT AWAY FROM THE BUILDING.
5. IRRIGATE VEGETATION AND SOILS ADJACENT TO THE BUILDING (NO MORE THAN 15 MINUTES THREE TIMES A WEEK) ON AN AS NEEDED BASIS TO MAINTAIN UNIFORM SOIL MOISTURE CONDITIONS AROUND THE PERIMETER OF THE BUILDING FOLLOWING CONSTRUCTION.

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STATE OF TEXAS
ELBA DUQUE-HICKS
129716
LICENSED
PROFESSIONAL ENGINEER
06/30/2022

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AMERICAN LEGION
POST #490

11702 GALVESTON RD
HOUSTON, TX 77034

0	ISSUE FOR PERMIT	06/30/2022

SCALE: AS NOTED

PROJECT NUMBER: 22-050

DATE: JUNE 30, 2022

STRUCTURAL GENERAL NOTES

SHEET NO.

S-001

Hazards by Location

Search Information

Address: 11702 Galveston Rd, Houston, TX 77034, USA

Coordinates: 29.6017606, -95.1786466

Elevation: 35 ft

Timestamp: 2022-06-21T20:13:25.055Z

Hazard Type: Wind



ASCE 7-16

MRI 10-Year	77 mph
MRI 25-Year	94 mph
MRI 50-Year	108 mph
MRI 100-Year	119 mph
Risk Category I	133 mph

You are in a wind-borne debris region if you are also within 1 mile of the coastal mean high water line.

Risk Category II	141 mph

You are in a wind-borne debris region.

Risk Category III	150 mph

If the structure under consideration is a healthcare facility and you are also within 1 mile of the coastal mean high water line, you are in a wind-borne debris region. If other occupancy, use the Risk Category II basic wind speed contours to determine if you are in a wind-borne debris region.

Risk Category IV	157 mph

You are in a wind-borne debris region.

ASCE 7-10

MRI 10-Year	77 mph
MRI 25-Year	95 mph
MRI 50-Year	108 mph
MRI 100-Year	119 mph
Risk Category I	133 mph

You are in a wind-borne debris region if you are also within 1 mile of the coastal mean high water line.

Risk Category II	141 mph

You are in a wind-borne debris region.

Risk Category III-IV	150 mph

If the structure under consideration is a healthcare facility and you are also within 1 mile of the coastal mean high water line, you are in a wind-borne debris region. If other occupancy, use the Risk Category II basic wind speed contours to determine if you are in a wind-borne debris region.

ASCE 7-05

ASCE 7-05 Wind Speed	114 mph

You are in a wind-borne debris region if you are also within 1 mile of the coastal mean high water line.

The results indicated here DO NOT reflect any state or local amendments to the values or any delineation lines made during the building code adoption process. Users should confirm any output obtained from this tool with the local Authority Having Jurisdiction before proceeding with design.

Disclaimer

Hazard loads are interpolated from data provided in ASCE 7 and rounded up to the nearest whole integer. Per ASCE 7, islands and coastal areas outside the last contour should use the last wind speed contour of the coastal area – in some cases, this website will extrapolate past the last wind speed contour and therefore, provide a wind speed that is slightly higher. NOTE: For queries near wind-borne debris region boundaries, the resulting determination is sensitive to rounding which may affect whether or not it is considered to be within a wind-borne debris region.

Mountainous terrain, gorges, ocean promontories, and special wind regions shall be examined for unusual wind conditions.

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STRUCTURAL ABBREVIATIONS

+/-	PLUS OR MINUS
ADDNL	ADDITIONAL
ADJ	ADJACENT
AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE
ARCH	ARCHITECT OR ARCHITECTURAL
B/W	BETWEEN
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BOD	BOTTOM OF DECK
BOS	BOTTOM OF STEEL
CF	COLD FORMED
CFMF	COLD-FORMED METAL FRAMING
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CL	CENTERLINE
CLR	CLEAR/CLEARANCE
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
CTR	CENTER
db	DIA OF REINF BAR, DIA OF BOLT
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DIA	DIAMETER
DIAG	DIAGONAL
DWL	DOWEL
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
EOD	EDGE OF DECK
EOS	EDGE OF SLAB
EQ	EQUAL
EW	EACH WAY
EXIST	EXISTING
EXT	EXTERIOR
FLR	FLOOR
FND	FOUNDATION
FS	FAR SIDE
FTG	FOOTING
FV	FIELD VERIFY
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHOR
HSS	HOLLOW STRUCTURAL SECTION
IF	INSIDE FACE
INT	INTERIOR
JST	JOIST
K	KIPS (1000 LBS)
LCE	COMPRESSION EMBEDMENT LENGTH
LCS	COMPRESSION LAP SPLICE LENGTH
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LTE	TENSION EMBEDMENT LENGTH
LTS	TENSION LAP SPLICE LENGTH
LW	LIGHTWEIGHT
MANUF	MANUFACTURER
MTL	METAL
NIC	NOT IN CONTRACT
NS	NEAR SIDE
NTS	NOT TO SCALE
OC	ON CENTER
OCEW	ON CENTER, EACH WAY
OF	OUTSIDE FACE
OH	OPPOSITE HAND
OPP	OPPOSITE
PAF	POWDER ACTUATED FASTENER
PEMB	PRE-ENGINEERED METAL BUILDING
PL	PLATE
PLF	POUNDS PER LINEAL FOOT
PREFAB	PREFABRICATED
PRELIM	PRELIMINARY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
RE: OR REF	REFER TO
REINF	REINFORCING
REQD	REQUIRED
SIM	SIMILAR
SLV	SHORT LEG VERTICAL
SOG	SLAB ON GRADE
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
SW	SHEAR WALL
SYM	SYMMETRIC
T&B	TOP AND BOTTOM
TOC	TOP OF CONCRETE
TOD	TOP OF DECK
TOS	TOP OF STEEL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WF	WIDE FLANGE
WP	WORK POINT
WWF	WELDED WIRE FABRIC

PRE-ENGINEERED METAL BUILDINGS

1. ALL STRUCTURAL STEEL USED FOR PRE-ENGINEERED BUILDING COMPONENTS SHALL BE DESIGNED, FABRICATED, AND ERECTED IN CONFORMANCE WITH THE LATEST STANDARDS OF THE AISC. THE DESIGN AND FABRICATION OF LIGHT GAGE STEEL MEMBERS SHALL COMPLY WITH THE AISI, LATEST EDITION.

2. THE DESIGN FOR ALL PRE-ENGINEERED BUILDING MEMBERS AND COMPONENTS (INCLUDING ANCHOR BOLT SIZES, LENGTHS AND EMBEDMENT) SHALL BE THE RESPONSIBILITY OF THE PRE-ENGINEERED BUILDING MANUFACTURER. THE DESIGN SHALL BE CARRIED OUT UNDER THE DIRECTION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.

3. SHOP DRAWINGS SHALL BE PREPARED FOR ALL STRUCTURAL ITEMS AND SUBMITTED FOR REVIEW. CONTRACT DRAWINGS SHALL NOT BE REPRODUCED AND USED AS SHOP DRAWINGS. ANY ITEMS DEVIATING FROM THE CONTRACT DRAWINGS OR FROM PREVIOUSLY SUBMITTED SHOP DRAWINGS SHALL BE SO NOTED. SHOP DRAWINGS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEERED REGISTERED IN THE STATE WHERE PROJECT IS LOCATED.

4. THE SCOPE OF WORK INCLUDES THE FOLLOWING AT A MINIMUM:

   A. PROVIDING SHOP DRAWINGS FOR METAL BUILDING WHICH MATCHES ARCHITECTURAL AND STRUCTURAL DIMENSIONS.
   B. PROVIDING ALL PRE-ENGINEERED METAL BUILDING FRAMES AND COMPONENTS, FASTENERS, SHEETING, ETC.
   C. TRANSPORTING AND ERECTING NEW FRAMES AND COMPONENTS ON SITE.
   D. PROVIDING NEW GIRTS AS REQUIRED AND AS SHOWN ON THE CONTRACT DOCUMENTS TO ENCLOSE THE BUILDING.
   E. PROVIDE METAL PANEL CLADDING AS SHOWN ON ARCHITECTURAL DRAWINGS.
   F. PUNCH-OUT/CLOSE-OUT AS REQUIRED BY THE OWNER/CONTRACTOR.

5. THE DESIGN OF ALL PRE-ENGINEERED COMPONENTS SHALL BE BASED ON THE LOADS INDICATED IN THE "DESIGN LOADS" SECTION OF THE STRUCTURAL NOTES. DEFLECTIONS OF THE PRE-ENGINEERED BUILDING STRUCTURE UNDER LOADING SHALL NOT EXCEED THE FOLLOWING:

   A. RIGID FRAMES AND COLUMNS –
      a. DRIFT H/300 LATERAL (BRITTLE FINISHES)
      b. VERTICAL L/180 (LIVE LOAD)
      c. VERTICAL L/360 (LIVE LOAD, BRITTLE CEILING FINISHES)
   B. WALL GIRTS AND EAVE STRUTS
   C. L/180 LATERAL

6. BASES OF COLUMNS SHALL BE DESIGNED AS PINNED SUPPORTS.

7. X-BRACING SHALL BE ROD BRACING WITH TURNBUCKLES ---NOT CABLE FOR THE WALL LATERAL BRACING.

8. ALL BUILDING COMPONENTS SHALL BE COMPATIBLE WITH THE CONTRACT DOCUMENTS. ANY REQUESTS FOR MODIFICATIONS SHALL BE SUBMITTED TO THE ARCHITECT DURING THE BIDDING PROCESS.

9. FIELD WELDED CONNECTIONS FOR LIGHT GAUGE MEMBERS SHALL NOT BE PERMITTED WITHOUT SPECIFIC WRITTEN APPROVAL OF THE ARCHITECT.

10. LATERAL STABILITY OF THE BUILDING FRAME SHALL BE PROVIDED IN THE STRUCTURAL FRAMING. WALLS AND OTHER BUILDING COMPONENTS SHALL NOT BE USED TO RESIST LATERAL LOADS UNLESS NOTED OTHERWISE.

11. THE METAL BUILDING ENGINEER IS TO PROVIDE TO THE OWNER, A STATE BOARD OF INSURANCE FORM WPI-2, IF REQUIRED FOR THE PROJECT/LOCATION.

12. THE METAL BUILDING ENGINEER IS TO PROVIDE SPECIAL INSPECTION WORK AND THE FINAL LETTER OF COMPLIANCE FOR THEIR PORTION OF THE WORK IN COMPLIANCE WITH THE INTERNATIONAL BUILDING CODE SECTION 1704.3.

CONCRETE

1. ALL CONCRETE REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60, EXCEPT WHERE NOTED. NO. 3 BARS SHALL CONFORM TO ASTM A615, GRADE 40. DEFORMED BAR ANCHORS SHALL CONFORM TO ASTM A496, GR 70.

2. ALL WELDED WIRE FABRIC SHALL BE SMOOTH WIRE FABRIC CONFORMING TO ASTM A1064, AND SHALL BE FURNISHED IN FLAT SHEETS ONLY. ROLLED WIRE FABRIC WILL BE REJECTED.

3. CONCRETE IN THE FOLLOWING AREAS SHALL HAVE SAND AND CRUSHED CARBONATE AGGREGATE CONFORMING TO ASTM C33, TYPE 1 PORTLAND CEMENT, FLYASH CONFORMING TO ASTM C618, CLASS 'C' UP TO 20 PERCENT REPLACEMENT BY VOLUME AND THE FOLLOWING DESIGNATED COMPRESSIVE STRENGTH (f'c) IN 28 DAYS:

   - DRILLED FOOTINGS ---------- 3000 PSI (w/c = 0.50 MAX)
   - SLABS ON GRADE ---------- 3000 PSI (w/c = 0.50 MAX)
   - ALL OTHER CONCRETE ---- 3000 PSI (w/c = 0.50 MAX)

   CONCRETE SUPPLIER SHALL BE AWARE OF CEMENTS THAT CAN CAUSE ETTRINGITE FORMATION IN THE CEMENT PASTE AND BE PREPARED TO SHOW THAT THE CEMENTS USED WILL NOT CAUSE THIS PROBLEM.

4. CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE AS FOLLOWS; SEE SEC. 7.7 ACI 318, LATEST EDITION FOR CONDITIONS NOT NOTED, PROVIDE CHAIR SUPPORTS (AZTEC CASTLE CHAIR, WAC SERIES 'S' OR EQUAL) TO ADEQUATELY SUPPORT BARS FOR PROPER CLEARANCE AS RECOMMENDED BY THE AMERICAN CONCRETE INSTITUTE AND THE CONCRETE REINFORCING STEEL INSTITUTE. SLAB ON GRADE REINFORCEMENT SHALL BE SUPPORTED AT 42-INCH MAXIMUM INTERVALS OR EVERY THIRD BAR.
   - FOOTINGS ---- 3 IN.
   - GRADE BEAMS ---- 3 IN. BOT., 2 IN. SIDE (3" EARTH FORMED), 2 IN. TOP
   - SLAB ON GRADE ---- 1½ IN. TOP

5. DETAILING OF CONCRETE REINFORCEMENT AND ACCESSORIES SHALL BE IN ACCORDANCE WITH ACI PUBLICATION 315, LATEST EDITION. ALL HOOKED BARS SHOWN IN DETAILS SHALL HAVE STANDARD HOOKS UNLESS NOTED OTHERWISE.

6. ALL MIXING, TRANSPORTING, PLACING AND CURING OF CONCRETE SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE, ACI 301, LATEST EDITION.

7. NO HORIZONTAL JOINTS WILL BE PERMITTED IN CONCRETE EXCEPT WHERE THEY NORMALLY OCCUR OR WHERE NOTED. VERTICAL JOINTS SHALL OCCUR AT CENTER SPANS OR AT LOCATIONS APPROVED BY THE STRUCTURAL ENGINEER.

8. REINFORCING BARS SHALL NOT BE WELDED WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.

9. UNLESS NOTED OTHERWISE CONTINUOUS BOTTOM REINFORCING BARS SHALL BE SPLICED AT SUPPORTS AND CONTINUOUS TOP REINFORCING BARS SHALL BE SPLICED AT MID-SPAN.

10. ALL CONTINUOUS REINFORCEMENT SHALL HAVE CLASS B LAP AT SPLICES. PROVIDE (1) - #6 X 6'-0" TOP AND BOTTOM (TWO 36" LEGS WITH 90 DEGREE BEND) AT EACH FACE OF GRADE BEAMS AT CORNERS AND INTERSECTIONS, AND AT 18" ON CENTER VERTICALLY AT WALLS.

11. CONDUITS ARE NOT ALLOWED IN SLABS, BEAMS, WALLS OR COLUMNS. ALL CONDUITS SHALL BE SUSPENDED FROM OR ATTACHED TO THE CONCRETE STRUCTURE.

12. ALL BASE PLATES AND ANCHOR RODS SHALL BE PROTECTED WITH 3" (MIN.) OF CONCRETE. ANCHOR RODS SHALL BE FABRICATED FROM FULL BODIED STEEL RODS CONFORMING TO ASTM F1554 GR.36. WASHERS CONFORMING TO ASTM F844 AND NUTS CONFORMING TO ASTM A194 OR A 563 AND HAVING THE SAME DIAMETER AS THE BOLT DIAMETER AND USING CUT THREADS. ROLLED THREADS ARE NOT ACCEPTABLE. BOLTS SHALL BE SET USING RIGID TEMPLATES.

13. PROVIDE (1) - #5 X 4'-0" AT RE-ENTRANT CORNERS AND AROUND RECTANGULAR HOLES IN SLABS UNLESS NOTED OTHERWISE. PLACE BAR DIAGONAL TO CORNER WITH 1" CLEARANCE FROM TOP AND THE SIDE OF THE SLAB AT THE CORNER.

14. WHERE FRESH CONCRETE IS DEPOSITED AGAINST HARDENED CONCRETE (GREATER THAN 8 HOURS OLD), CLEAN EXISTING SURFACE OF LAITANCE AND FOREIGN MATERIAL AND DAMPEN THE EXISTING SURFACE. IF REQUIRED, ROUGHEN EXISTING CONCRETE TO ¼" AMPLITUDE.

15. SAW CUT JOINTS OR KEYED CONSTRUCTION JOINTS IN SLABS ON GRADE SHALL BE SPACED TO DIVIDE THE SLAB INTO PANELS NOT TO EXCEED 225 SQUARE FEET. THE LONGER DIMENSION OF EACH PANEL SHALL NOT EXCEED THE SHORTER DIMENSION BY MORE THAN 20%. JOINTS SHALL BE LOCATED AT COLUMN CENTERLINES WHERE POSSIBLE. CONTRACTOR SHALL SUBMIT JOINT LAYOUT TO ARCHITECT FOR APPROVAL.

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POST #490

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AMERICAN LEGION

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SCALE: AS NOTED

PROJECT NUMBER: 22-050

DATE: JUNE 30, 2022

STRUCTURAL GENERAL NOTES

SHEET NO.

S-002

STRUCTURAL TESTING AND INSPECTIONS

SPECIAL INSPECTIONS

SPECIAL INSPECTION WORK AND THE FINAL LETTER OF COMPLIANCE HAVE NOT BEEN INCLUDED IN THE STRUCTURAL ENGINEER OF RECORD'S SCOPE OF SERVICES. PER IBC CHAPTER 17, THE OWNER IS RESPONSIBLE FOR OBTAINING THE SERVICES OF THE SPECIAL INSPECTOR AND THE TESTING LABORATORY. SPECIAL INSPECTIONS CAN BE PROVIDED BY AN INDEPENDENT SPECIAL INSPECTOR APPROVED BY THE BUILDING AUTHORITY OR BY THE ENGINEER OF RECORD. THE SPECIAL INSPECTION WORK DOES NOT INCLUDE THE TESTING LABORATORY SERVICES AS CALLED FOR ON THE DRAWINGS. ARRANGEMENTS FOR SPECIAL INSPECTIONS SHOULD BE MADE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE OWNER IF SPECIAL INSPECTIONS ARE REQUIRED ON THE APPROVED PERMIT DRAWINGS AND FOR NOTIFYING THE TESTING LABORATORY AND SPECIAL INSPECTOR IN A TIMELY MANNER PRIOR TO PROCEEDING WITH CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK REQUIRING INSPECTIONS WITHOUT THE TESTING LABORATORY'S OR SPECIAL INSPECTOR'S PRESENCE. THE STRUCTURAL ENGINEER WILL NOT PROVIDE A FINAL LETTER OF COMPLIANCE AFTER THE WORK IS COMPLETE UNLESS THEY HAVE PERFORMED THE SPECIAL INSPECTIONS.

STRUCTURAL STATEMENT OF SPECIAL INSPECTIONS

INCLUDED HERE ARE SPECIAL INSPECTIONS REQUIRED FOR THE STRUCTURAL ELEMENTS FOR THIS PROJECT. REFERENCE STATEMENT OF SPECIAL INSPECTIONS BY ARCHITECT AND OTHER CONSULTANTS FOR SPECIAL INSPECTION DETAILS OF NON-STRUCTURAL ITEMS REQUIRED BY IBC AND PROVIDED IN THE SPECIFICATIONS.

PER IBC 1704.2.4, THE STRUCTURAL SPECIAL INSPECTOR SHALL KEEP RECORDS OF ALL STRUCTURAL INSPECTIONS AND SHALL FURNISH INSPECTION REPORTS TO THE OWNER AND THE STRUCTURAL REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE (SRDP). DISCOVERED DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF SUCH DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND THE SRDP. THE SPECIAL INSPECTION PROGRAM DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITIES.

A FINAL REPORT OF SPECIAL INSPECTION DOCUMENTING COMPLETION OF ALL SPECIAL INSPECTIONS, TESTING AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED TO THE OWNER AND THE SRDP PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY AND USE.

CONTRACTOR RESPONSIBILITY

PER IBC 1704.4, EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND- OR SEISMIC FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM OR A WIND- OR SEISMIC-RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS.

STRUCTURAL SCHEDULE OF SPECIAL INSPECTIONS

QUALIFICATIONS OF INSPECTORS AND TESTING TECHNICIANS

THE QUALIFICATIONS OF ALL PERSONNEL PERFORMING SPECIAL INSPECTION AND TESTING ACTIVITIES ARE SUBJECT TO THE APPROVAL OF THE OWNER. THE CREDENTIALS OF ALL INSPECTORS AND TESTING TECHNICIANS SHALL BE PROVIDED TO THE SPECIAL INSPECTOR FOR THEIR RECORDS.

KEY FOR MINIMUM QUALIFICATION OF INSPECTION AGENTS

WHEN THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE OR SPECIAL INSPECTOR OF RECORD DEEMS APPROPRIATE THAT THE INDIVIDUAL PERFORMING THE STIPULATED TEST OR INSPECTION HAVE A SPECIFIC CERTIFICATION, LICENSE OR EXPERIENCE AS INDICATED BELOW. SUCH REQUIREMENT SHALL BE LISTED BELOW AND SHALL BE CLEARLY IDENTIFIED WITHIN THE SCHEDULE UNDER THE AGENT QUALIFICATION DESIGNATION.

- PE/SE STRUCTURAL ENGINEER – A LICENSED SE OR PE SPECIALIZING IN THE DESIGN OF BUILDING STRUCTURES
- PE/GE GEOTECHNICAL ENGINEER – A LICENSED PE SPECIALIZING IN SOIL MECHANICS AND FOUNDATIONS
- EIT ENGINEER IN TRAINING – A GRADUATE ENGINEER WHO HAS PASSED THE FUNDAMENTALS OF ENGINEERING EXAM
- ETT EXPERIENCED TESTING TECHNICIAN – AN EXPERIENCED TESTING TECHNICIAN WITH A MINIMUM OF 5 YEARS EXPERIENCE WITH THE STIPULATED TEST OR INSPECTION

AMERICAN CONCRETE INSTITUTE (ACI) CERTIFICATION

- ACI-CFTT CONCRETE FIELD TESTING TECHNICIAN – GRADE 1
- ACI-CCI CONCRETE CONSTRUCTION INSPECTOR
- ACI-LTT LABORATORY TESTING TECHNICIAN – GRADE 1&2
- ACI-STT STRENGTH TESTING TECHNICIAN

AMERICAN WELDING SOCIETY (AWS) CERTIFICATION

- AWS-CWI CERTIFIED WELDING INSPECTOR
- AWS/ASC-SSICERTIFIED STRUCTURAL STEEL INSPECTOR

PERIODIC, CONTINUOUS, OBSERVE, PERFORM, AND DOCUMENT ARE DEFINED AS IN THE SPECIFIC REFERENCE STANDARD.

SPECIAL CASES

1. PER IBC 1705.1.1, SPECIAL INSPECTIONS AND TESTS SHALL BE REQUIRED FOR PROPOSED WORK THAT IS, IN THE OPINION OF THE BUILDING OFFICIAL, UNUSUAL IN ITS NATURE SUCH AS:

   A. MATERIALS AND SYSTEMS REQUIRED TO VE INSTALLED IN ACCORDANCE WITH ADDITIONAL MANUFACTURER'S INSTRUCTIONS THAT PRESCRIBE REQUIREMENTS NOT CONTAINED IN IBC OR IN STANDARDS REFERENCED BY IBC.

   B. UNUSUAL DESIGN APPLICATIONS OF MATERIALS DESCRIBED IN IBC.

   C. CONSTRUCTION MATERIALS AND SYSTEMS THAT ARE ALTERNATIVES TO MATERIALS AND SYSTEMS PRESCRIBED BY THIS CODE.

REINFORCING STEEL INSTALLATION

1. DURING THE CAST-IN-PLACE CONCRETE STRUCTURAL MEMBER REINFORCING PLACEMENT OPERATIONS KEEP A COMPETENT TRAINED TECHNICIAN ASSIGNED TO THE PROJECT. INSPECT REINFORCING UTILIZING ACI 311.4R "GUIDE FOR CONCRETE INSPECTION" AS A GUIDE. SERVICES PROVIDED SHALL INCLUDE:

   a. VERIFY TYPE AND GRADE OF ALL REINFORCING STEEL.

   b. VERIFY REBAR IS FREE OF OIL, DIRT, EXCESSIVE RUST AND FROM DAMAGE IN SHIPMENT TO SITE.

   c. VERIFY REINFORCING IS ADEQUATELY TIED, CHAIRED AND SUPPORTED TO PREVENT DISPLACEMENT DURING CONCRETE PLACEMENT. VERIFY MINIMUM AND MAXIMUM CLEAR DISTANCES BETWEEN BARS AND MINIMUM STRUCTURAL DISTANCE TO OUTSIDE OF CONCRETE. VERIFY QUANTITY, SIZE AND LOCATION OF REINFORCEMENT. VERIFY MINIMUM CONCRETE COVER IS MAINTAINED BETWEEN REBAR AND SURFACE OF CONCRETE.

   d. VERIFY SIZE AND PLACEMENT OF REBAR. VERIFY LAP LENGTHS, LOCATIONS AND STAGGERS AND VERIFY BENDS FOR MINIMUM DIAMETER, SLOPE AND LENGTH. VERIFY HOOKED BAR LENGTHS AND LOCATIONS.

CONCRETE TESTING

1. PER IBC 1705.3, SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION SHALL BE PERFORMED.
2. CONCRETE MIX DESIGNS SHALL BE SUBMITTED FOR REVIEW INDICATING CONFORMANCE WITH ACI 318, LATEST EDITION.
3. SLUMP TESTS, CONFORMING TO ASTM C143, SHALL BE TAKEN AT THE POINT OF DISCHARGE AT THE SAME RATE AS NOTED BELOW IN NOTE NUMBER 6.
4. AIR CONTENT TESTS CONFORMING TO ASTM C173, VOLUMETRIC METHOD FOR LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE; ASTM C231 PRESSURE METHOD FOR NORMAL WEIGHT CONCRETE; SHALL BE TAKEN FOR EACH DAY'S POUR OF EACH TYPE OF AIR-ENTRAINED CONCRETE.
5. CONCRETE TEMPERATURE SHALL BE TESTED HOURLY WHEN AIR TEMPERATURE IS 40 DEG F (4 DEG C) AND BELOW, WHEN 80 DEG F (27 DEG C) AND ABOVE, AND EACH TIME A SET OF COMPRESSION TEST SPECIMENS IS MADE.
6. ONE SET OF FOUR COMPRESSION TEST SPECIMENS CONFORMING TO ASTM C31 SHALL BE MOLDED AND STORED FOR LABORATORY-CURED SPECIMENS. COMPRESSIVE STRENGTH TESTS SHALL CONFORM TO ASTM C39 AND SHALL CONSIST OF ONE SET FOR EACH DAY'S POUR EXCEEDING 5 CU. YDS. PLUS ADDITIONAL SETS FOR EACH 50 CU. YDS. MORE THAN THE FIRST 25 CU. YDS OF EACH CONCRETE CLASS PLACED IN ANY ONE DAY. ONE SPECIMEN SHALL BE TESTED AT 7 DAYS, TWO SPECIMENS SHALL BE TESTED AT 28 DAYS, AND ONE SPECIMEN SHALL BE RETAINED FOR LATER TESTING AS REQUIRED.
7. IN THE ABSENCE OF SUFFICIENT DATA OR DOCUMENTATION PROVIDING EVIDENCE OF CONFORMANCE TO QUALITY STANDARDS FOR MATERIALS IN THE LATEST EDITION OF ACI 318, THE BUILDING OFFICIAL SHALL REQUIRE TESTING OF MATERIALS IN ACCORDANCE WITH THE APPROPRIATE STANDARDS AND CRITERIA FOR THE MATERIAL IN THE LATEST EDITION OF ACI 318.
8. VERIFY CONCRETE IS BEING CONSOLIDATED IN ACCORDANCE WITH THE RECOMMENDATIONS OF ACI 318 AND ACI 309R, LATEST EDITION.
9. VERIFY THAT POST INSTALLED ANCHORS ARE AS SPECIFIED AND THAT ANCHORS ARE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
10. PER IBC 1705.5.4, REPORTS OF PRECONSTRUCTION TESTS FOR SHOTCRETE IN ACCORDANCE WITH IBC SECTION 1908.5, SHALL BE SUBMITTED BY THE OWNER OR THE OWNER'S AUTHORIZED AGENT TO THE BUILDING OFFICIAL.
11. SPECIAL INSPECTIONS AND TESTS SHALL NOT BE REQUIRED FOR:

    A. ISOLATED SPREAD CONCRETE FOOTINGS OF BUILDINGS THREE STORIES OR LESS ABOVE GRADE PLANE AND THAT ARE FULLY SUPPORTED ON EARTH OR ROCK.

    B. CONTINUOUS CONCRETE FOOTINGS SUPPORTING WALLS OF BUILDINGS THREES STORIES OR LESS ABOVE GRADE PLANE THAT ARE FULLY SUPPORTED ON EARTH OR ROCK WHERE:

       a. THE FOOTINGS SUPPORT WALLS OF LIGHT-FRAME CONSTRUCTION

       b. THE FOOTINGS ARE DESIGNED IN ACCORDANCE WITH IBC TABLE 1809.7.

       c. THE STRUCTURAL DESIGN OF THE FOOTING IS BASED ON THE SPECIFIED COMPRESSIVE STRENGTH f'_c, NOT MORE THAN 2,500 POUNDS PER SQUARE INCH (PSI), REGARDLESS OF THE COMPRESSIVE STRENGTH SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS OR USED IN THE FOOTING CONSTRUCTION.

    C. NONSTRUCTURAL CONCRETE SLABS SUPPORTED DIRECTLY ON THE GROUND, INCLUDING PRESTRESSED SLABS ON GRADE, WHERE THE EFFECTIVE PRESTRESS IN THE CONCRETE IS LESS THAN 150 PSI.

    D. CONCRETE FOUNDATION WALLS CONSTRUCTED IN ACCORDANCE WITH IBC TABLE 1807.1.6.2.

    E. CONCRETE PATIOS, DRIVEWAYS, AND SIDEWALKS, ON GRADE.

SOIL SPECIAL INSPECTIONS

1. PER IBC 1705.6, SPECIAL INSPECTIONS AND TESTS OF EXISTING SITE SOIL CONDITIONS, FILL PLACEMENT, AND LOAD-BEARING REQUIREMENTS SHALL BE PERFORMED.
2. DURING FILL PLACEMENT, VERIFY THAT PROPER MATERIALS AND PROCEDURES ARE USED IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT.
3. WHERE IBC SECTION 1803 DOES NOT REQUIRE REPORTING OF MATERIALS AND PROCEDURES FOR FILL PLACEMENT, VERIFY THAT THE IN-PLACE DRY DENSITY OF THE COMPACTED FILL IS NOT LESS THAN 90 PERCENT OF THE MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT DETERMINED IN ACCORDANCE WITH ASTM D1557.

EARTHWORK TESTING

1. DURING EARTHWORK OPERATIONS KEEP A COMPETENT TRAINED TECHNICIAN ASSIGNED TO THE PROJECT. SERVICES PROVIDED SHALL INCLUDE:

   a. OBSERVE STRIPPING OPERATIONS AND EVALUATE THE REQUIRED STRIPPING DEPTH DURING THESE OPERATIONS.

   b. OBSERVE PROOFROLLING OPERATIONS AFTER SITE STRIPPING. DETERMINE IF ANY SOFT SPOTS NEED TO BE UNDERCUT TO FIRM SOILS, REPLACED WITH SELECT FILL AND RECOMPACTED.

   c. VERIFY THAT THE SUBGRADE SHALL THEN BE SCARIFIED AND MOISTURE CONDITIONED TO AN EIGHT (8) INCH DEPTH AND THEN RECOMPACTED TO BETWEEN 95 AND 100 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR DENSITY TEST (ASTM D698). THE MOISTURE CONTENT SHALL BE BETWEEN OPTIMUM AND +3 PERCENT OF THE OPTIMUM MOISTURE CONTENT. PROVIDE A MINIMUM OF FOUR (4) FIELD DENSITY TESTS ON THE SUBGRADE OR ONE (1) FOR EVERY 2,500 SQUARE FEET WHICHEVER IS GREATER.

   d. STRUCTURAL SELECT FILL PAD MATERIAL SHALL BE TESTED FOR ACCEPTABILITY AND A MOISTURE DENSITY CURVE SHALL BE ESTABLISHED. SELECT FILL MATERIAL SHALL BE AN INORGANIC SANDY CLAY WITH LIQUID LIMIT OF 26 AND PLASTICITY INDEX BETWEEN 10 AND 20.

   e. SELECT FILL SHALL BE PLACED IN SIX (6) INCH LOOSE LIFTS AND COMPACTED TO BETWEEN 95 AND 100 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR DENSITY TEXT (ASTM D698). THE MOISTURE CONTENT SHALL BE BETWEEN OPTIMUM AND +3 PERCENT OF THE OPTIMUM MOISTURE CONTENT FOR SELECT FILL. VERIFY THAT SELECT FILL MATERIAL EXTENDS TO 5'-0" BEYOND THE BUILDING PERIMETER.

   f. SELECT FILL MATERIAL SHALL BE TESTED DURING PLACEMENT OF EACH LIFT FOR THE ATTERBERG LIMITS IN ACCORDANCE WITH ASTM D4318-98 METHOD B "STANDARD TEST METHOD FOR LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS" TO VERIFY THAT THE SELECT FILL MATERIAL IS IN ACCORDANCE WITH THE ORIGINALLY APPROVED SELECT FILL MATERIAL. PROVIDE A MINIMUM OF ONE (1) TEST PER LIFT OR ONE (1) FOR EVERY 2,500 SQUARE FEET WHICHEVER IS GREATER WITH A MAXIMUM OF TEN (10) PER LIFT.

   g. OBSERVE THE EXCAVATION DAILY AND ENSURE THAT THE CONTRACTOR MAINTAINS A CLEAN EXCAVATION THAT IS FREE OF WATER 100% OF THE TIME. CONTRACTOR SHALL PROVIDE PUMPS AS REQUIRED TO REMOVE ANY WATER AT ALL TIMES.

   h. OBSERVE GRADING OPERATIONS TO ENSURE THAT PROPER DRAINAGE AWAY FROM THE BUILDING PAD IS PROVIDED.

SPECIAL INSPECTION OF FABRICATED ITEMS

PER IBC 1704.2.5, WHERE FABRICATION OF STRUCTURAL, LOAD-BEARING OR LATERAL LOAD-RESISTING MEMBERS OR ASSEMBLIES IS BEING CONDUCTED ON THE PREMISES OF A FABRICATOR'S SHOP:

EITHER:

A. SPECIAL INSPECTIONS OF THE FABRICATED ITEMS SHALL BE PERFORMED DURING FABRICATION AT THE FABRICATOR'S SHOP, OR:

B. THE FABRICATOR SHALL HAVE BEEN APPROVED TO PERFORM WORK WITHOUT SPECIAL INSPECTIONS IN ACCORDANCE WITH IBC 1704.2.5.1. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE OWNER OR THE OWNER'S AUTHORIZED AGENT FOR SUBMITTAL TO THE BUILDING OFFICIAL AS SPECIFIED IN IBC SECTION 1704.5 STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.

WIND SPECIAL INSPECTIONS

1. PER IBC 1705.11, SPECIAL INSPECTIONS FOR WIND RESISTANCE ARE REQUIRED IN WIND EXPOSURE CATEGORY B WHERE V (ASD) IS 120 MPH OR GREATER, OR IN WIND EXPOSURE CATEGORY C OR D WHERE V (ASD) IS 110 MPH OR GREATER.
2. EXCEPTION FOR STRUCTURAL WOOD: PER IBC 1705.11.1, SPECIAL INSPECTIONS ARE NOT REQUIRED FOR WOOD SHEAR WALLS, SHEAR PANELS AND DIAPHRAGMS, INCLUDING NAILING, BOLTING, ANCHORING AND OTHER FASTENING TO OTHER ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM, WHERE THE SPECIFIED FASTENER SPACING AT PANEL EDGES IS MORE THAN 4 INCHES ON CENTER.
3. EXCEPTION FOR COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION: PER IBC 1705.11.2, SPECIAL INSPECTIONS ARE NOT REQUIRED FOR COLD-FORMED STEEL LIGHT-FRAME SHEAR WALLS AND DIAPHRAGMS, INCLUDING SCREWING, BOLTING, ANCHORING AND OTHER FASTENING TO COMPONENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM, WHERE THE EITHER OF THE FOLLOWING APPLIES:

   A. THE SHEATHING IS GYPSUM BOARD OR FIBERBOARD.

   B. THE SHEATHING IS WOOD STRUCTURAL PANEL OR STEEL SHEETS ON ONLY ONE SIDE OF THE SHEAR WALL, SHEAR PANEL, OR DIAPHRAGM ASSEMBLY AND THE FASTENER SPACING OF THE SHEATHING IS MORE THAN 4 INCHES ON CENTER.

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SCALE: AS NOTED

PROJECT NUMBER: 22-050

DATE: JUNE 30, 2022

STRUCTURAL SPECIAL INSPECTIONS

SHEET NO.

S-010

SCHEDULE OF SPECIAL INSPECTIONS			
VERIFICATION / INSPECTION	WIND RESISTANCE INSPECTION		
IBC SECTION 1705.11	EXTENT CONTINUOUS, PERIODIC	COMMENTS	AGENT PE/GE, EIT, OR ETT
STRUCTURAL WOOD: A. FIELD GLUING OPERATIONS OF ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM B. NAILING, BOLTING, ANCHORING AND OTHER FASTENING ELEMENTS OF THE MAIN WINDFORCE RESISTING SYSTEM, INCLUDING WIND SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES, AND HOLD-DOWNS.	CONTINUOUS PERIODIC	IBC 1705.11.1 IBC 1705.11.1	ETT ETT
COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION: A. WELDING OPERATIONS OF ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM B. SCREW ATTACHMENT, BOLTING, ANCHORING, AND OTHER FASTENING TO COMPONENTS OF THE WINDFORCE-RESISTING SYSTEM, INCLUDING SHEAR WALLS, BRACES, DIAPHRAGMS, COLLECTORS (DRAG STRUTS), AND HOLD-DOWNS.	PERIODIC PERIODIC	IBC 1705.11.2 IBC 1705.11.2	ETT ETT
WIND-RESISTING COMPONENTS: A. ROOF COVERING, ROOF DECK, AND ROOF FRAMING CONNECTIONS. B. EXTERIOR WALL COVERING AND WALL CONNECTIONS TO ROOF AND FLOOR DIAPHRAGMS AND FRAMING.	PERIODIC PERIODIC	IBC 1705.11.3 IBC 1705.11.3	ETT ETT

SCHEDULE OF SPECIAL INSPECTIONS			
VERIFICATION / INSPECTION	SOIL / FOUNDATION INSPECTION		
IBC SECTION 1705.6, TABLE 1705.6	EXTENT CONTINUOUS, PERIODIC	COMMENTS	AGENT PE/GE, EIT, OR ETT
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	PERIODIC	IBC 1705.6, TABLE 1705.6	ETT
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	PERIODIC	IBC 1705.6, TABLE 1705.6	ETT
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	PERIODIC	IBC 1705.6, TABLE 1705.6	ETT
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	CONTINUOUS	IBC 1705.6, TABLE 1705.6	ETT
PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	PERIODIC	IBC 1705.6, TABLE 1705.6	ETT
THE APPROVED GEOTECHNICAL REPORT AND THE CONSTRUCTION DOCUMENTS PREPARED BY THE REGISTERED DESIGN PROFESSIONALS SHALL BE USED TO DETERMINE COMPLIANCE.			

SCHEDULE OF SPECIAL INSPECTIONS			
VERIFICATION / INSPECTION	CONCRETE INSPECTION		
IBC 2015 SECTION 1705.6, TABLE 1705.6	EXTENT CONTINUOUS, PERIODIC	COMMENTS	AGENT PE/GE, EIT, OR ETT
INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	PERIODIC	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1 - 26.6.3 IBC 1908.4	ETT
REINFORCING BAR WELDING: A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706; B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16", AND C. INSPECT ALL OTHER WELDS	PERIODIC PERIODIC CONTINUOUS	AWS D1.4 ACI 318: 26.6.4	AWS-CWI
INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.	PERIODIC	ACI 318: 17.8.2	ETT
INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS: A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED ABOVE.	CONTINUOUS PERIODIC	ACI 318: 17.8.2.4 ACI 318: 17.8.2	ETT ETT
VERIFYING USE OF REQUIRED MIX DESIGN.	PERIODIC	ACI 318: Ch. 19, 26.4.3, 26.4.4 IBC 1904.1, 1904.2, 1908.2, 1908.3	ETT
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	CONTINUOUS	ASTM C 172 ASTM C 31 ACI 318: 26.4, 26.12 IBC 1908.10	ACI-CFTT OR ACI-STT
INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	CONTINUOUS	ACI 318: 26.5 IBC 1908.6, 1908.7, 1908.8	ETT
INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	PERIODIC	ACI 318: 26.5.3-26.5.5 IBC 1908.9	ETT
INSPECTION OF PRESTRESSED CONCRETE: A. APPLICATION OF PRESTRESSING FORCES B. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC FORCE-RESISTING SYSTEM.	CONTINUOUS CONTINUOUS	ACI 318: 26.10	ETT
ERECTION OF PRECAST CONCRETE MEMBERS.	PERIODIC	ACI 318: Ch. 26.8	ETT
VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	PERIODIC	ACI 318: 26.11.2	ETT
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	PERIODIC	ACI 318: 26.11.1.2(b)	ETT

SCHEDULE OF SPECIAL INSPECTIONS			
VERIFICATION / INSPECTION	CAST-IN-PLACE DEEP FOUNDATION INSPECTION		
IBC SECTION 1705.7, TABLE 1705.7	EXTENT CONTINUOUS, PERIODIC	COMMENTS	AGENT PE/GE, EIT, OR ETT
INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	CONTINUOUS	IBC 1705.8, TABLE 1705.8	ETT
VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE), AND ADEQUATE END-BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES.	CONTINUOUS	IBC 1705.8, TABLE 1705.8	ETT
FOR CONCRETE ELEMENTS PERFORM TESTS AND ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3.	-	IBC 1705.3	-
THE APPROVED GEOTECHNICAL REPORT AND THE CONSTRUCTION DOCUMENTS PREPARED BY THE REGISTERED DESIGN PROFESSIONALS SHALL BE USED TO DETERMINE COMPLIANCE.			

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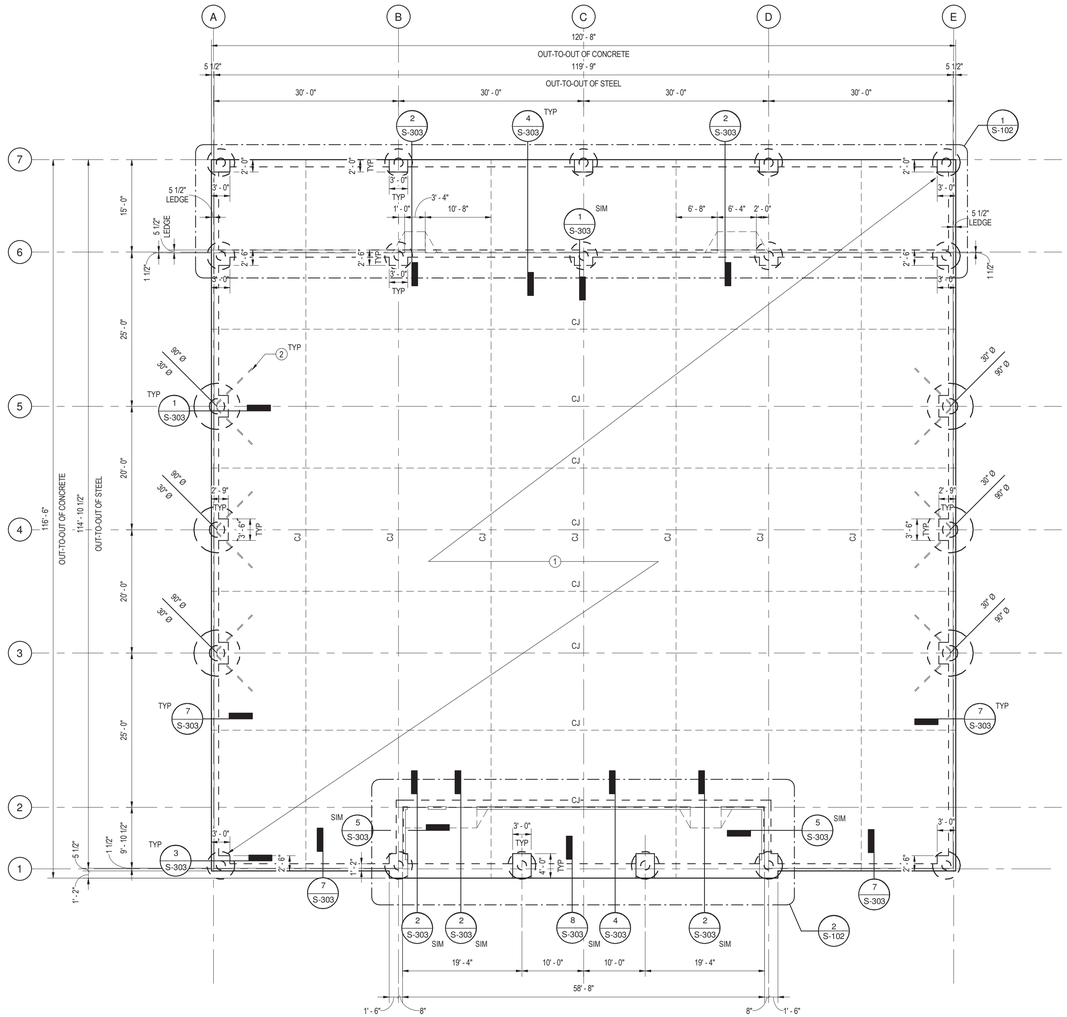
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DATE: JUNE 30, 2022

STRUCTURAL SPECIAL INSPECTIONS

SHEET NO.

S-011



1 FOUNDATION PLAN
1" = 10'-0"

GENERAL SHEET NOTES

A. REFERENCE SHEET S-001 FOR STRUCTURAL GENERAL NOTES AND S-301 FOR TYPICAL STRUCTURAL DETAILS. REVIEW NOTES & DETAILS FOR APPLICABILITY.

B. SEE ARCHITECTURAL DRAWINGS FOR DETAILS & DIMENSIONS NOT SHOWN.

C. FINISH FLOOR ELEVATION = 35.90' UNO (COORDINATE FINISH FLOOR ELEVATION w/ CIVIL DRAWINGS).

D. ALL UNDERREAMED DRILLED PIERS SHALL BE 18"Ø / 54"Ø, UNO

E. CJ - CONSTRUCTION JOINTS. RE: DETAIL 1 / S-302

(#) **FOUNDATION PLAN NOTES:**

1. NEW 6" THICK CONCRETE SLAB ON GRADE WITH #4@16" OC EACH WAY ON CHAIRS AT THE HEIGHT AND SPACING SPECIFIED IN THE STRUCTURAL GENERAL NOTES. PLACE SLAB ON 15 MIL WATER VAPOR BARRIER OVER COMPACTED SELECT FILL - SEE SOIL REPORT. SEE STRUCTURAL GENERAL NOTES AND TYPICAL DETAILS FOR JOINT REQUIREMENTS.
2. PROVIDE TWO (2) #5 x 17'-0" LONG HAIRPIN AT EACH COLUMN 45 DEGREES TO CENTERLINE OF EACH COLUMN (TYPICAL 6 LOCATIONS).

THIS FOUNDATION DESIGN WAS COMPLETED WITHOUT ISSUE FOR CONSTRUCTION PRE-ENGINEERED METAL BUILDING DRAWINGS. CONTRACTOR TO COORDINATE THIS FOUNDATION PLAN WITH THE ISSUE FOR CONSTRUCTION PRE-ENGINEERED METAL BUILDING DRAWINGS AND THE ARCHITECTURAL DRAWINGS. PRE-ENGINEERED METAL BUILDING ISSUE FOR CONSTRUCTION DRAWINGS MUST BE PROVIDED FOR STRUCTURAL ENGINEER REVIEW PRIOR TO CONSTRUCTION OF FOUNDATION.

PRE-ENGINEERED METAL BUILDING ISSUE FOR CONSTRUCTION DRAWINGS MUST BE PROVIDED FOR STRUCTURAL ENGINEER REVIEW PRIOR TO CONSTRUCTION OF FOUNDATION.

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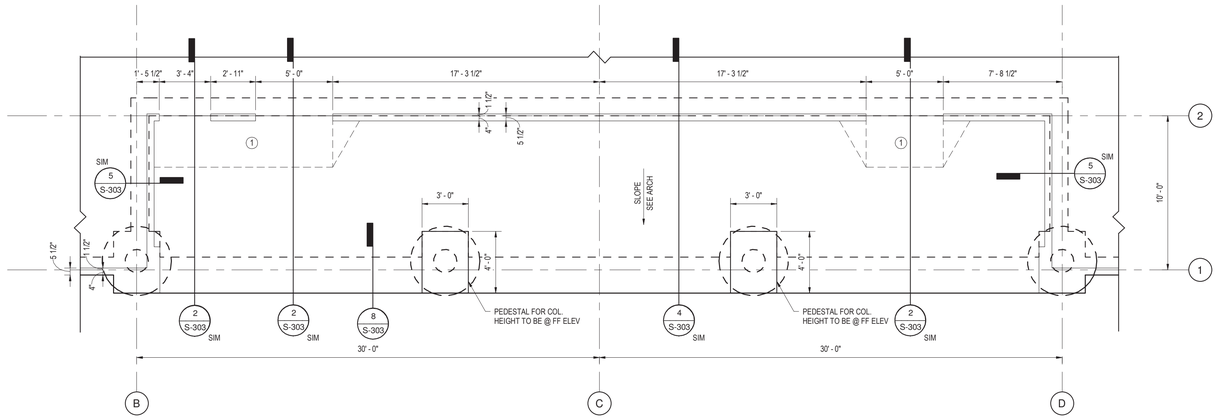
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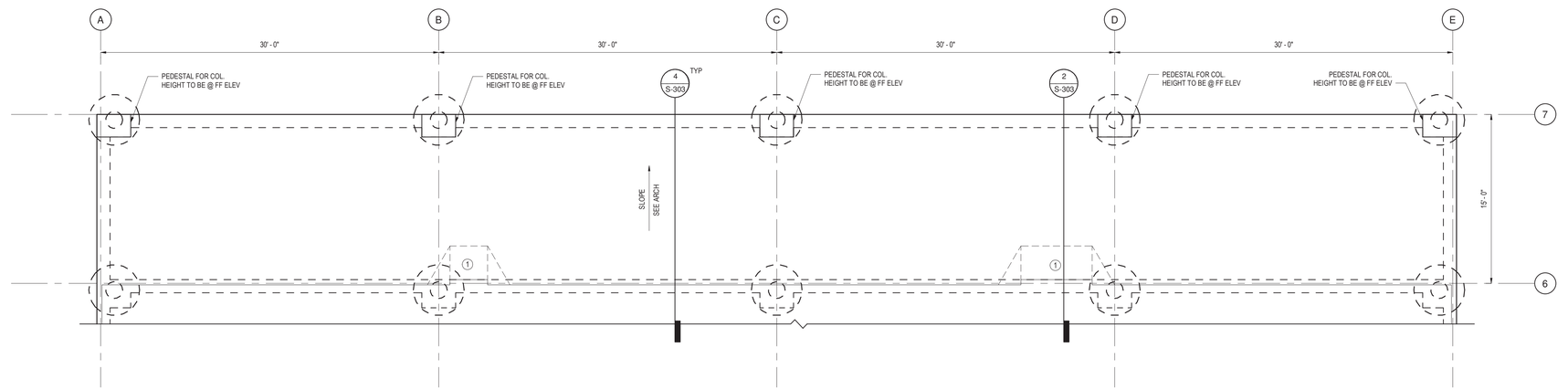
FOUNDATION PLAN

SHEET NO.
S-101



2 ENLARGED FOUNDATION PLAN - FRONT ENTRANCE

1/4" = 1'-0"



1 ENLARGED FOUNDATION PLAN - REAR PORCH

1 : 60

GENERAL SHEET NOTES

A. REFERENCE SHEET S-001 FOR STRUCTURAL GENERAL NOTES AND S-301 FOR TYPICAL STRUCTURAL DETAILS. REVIEW NOTES & DETAILS FOR APPLICABILITY.

B. SEE ARCHITECTURAL DRAWINGS FOR DETAILS & DIMENSIONS NOT SHOWN.

C. FINISH FLOOR ELEVATION = 35.90' UNO (COORDINATE FINISH FLOOR ELEVATION w/ CIVIL DRAWINGS).

D. SEE SHEET S-101 FOR OTHER INFORMATION.

(#) FOUNDATION PLAN NOTES:

1. SEE ARCHITECTURAL PLANS FOR SLOPES AND LANDINGS NEEDED AT DOORS.

THIS FOUNDATION DESIGN WAS COMPLETED WITHOUT ISSUE FOR CONSTRUCTION PRE-ENGINEERED METAL BUILDING DRAWINGS. CONTRACTOR TO COORDINATE THIS FOUNDATION PLAN WITH THE ISSUE FOR CONSTRUCTION PRE-ENGINEERED METAL BUILDING DRAWINGS AND THE ARCHITECTURAL DRAWINGS. PRE-ENGINEERED METAL BUILDING ISSUE FOR CONSTRUCTION DRAWINGS MUST BE PROVIDED FOR STRUCTURAL ENGINEER REVIEW PRIOR TO CONSTRUCTION OF FOUNDATION.

PRE-ENGINEERED METAL BUILDING ISSUE FOR CONSTRUCTION DRAWINGS MUST BE PROVIDED FOR STRUCTURAL ENGINEER REVIEW PRIOR TO CONSTRUCTION OF FOUNDATION.

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ENLARGED
FOUNDATION PLANS

SHEET NO.

S-102

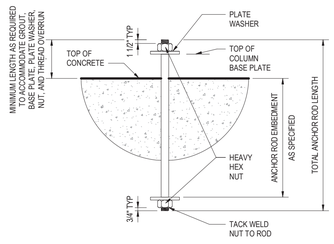
DEVELOPMENT AND LAP SPLICE SCHEDULE																				
	F'c = 3000 psi							F'c = 4000 psi							F'c = 4500 psi					
	EMBEDMENT			LAP SPLICE				EMBEDMENT			LAP SPLICE				EMBEDMENT			LAP SPLICE		
	COMPR	TENSION (LTE)		COMPR	TENSION (LTS)		HOOK	COMPR	TENSION (LTE)		COMPR	TENSION (LTS)		HOOK	COMPR	TENSION (LTE)		COMPR	TENSION (LTS)		HOOK
BAR	(LCE)	TOP	OTHER	(LCS)	TOP	OTHER	(LDH)	(LCE)	TOP	OTHER	(LCS)	TOP	OTHER	(LDH)	(LCE)	TOP	OTHER	(LCS)	TOP	OTHER	(LDH)
#3	8	21	16	12	28	21	6	8	18	14	12	24	18	6	7	17	13	12	23	17	6
#4	11	28	22	15	37	28	8	9	25	19	15	32	25	7	9	23	18	15	30	23	6
#5	14	36	27	19	46	36	10	12	31	24	19	40	31	8	11	29	22	19	38	29	8
#6	16	43	33	23	56	43	12	14	37	28	23	48	37	10	14	35	27	23	45	35	9
#7	19	62	48	26	81	62	13	17	54	42	26	70	54	12	16	51	39	26	66	51	11
#8	22	71	55	30	93	71	15	19	62	47	30	80	62	13	18	58	45	30	76	58	13
#9	25	80	62	34	105	80	17	21	70	54	34	91	70	15	20	66	50	34	85	66	14
#10	28	90	70	38	118	90	19	24	78	60	38	102	78	17	23	74	57	38	96	74	16
#11	31	100	77	42	131	100	22	27	87	67	42	113	87	19	25	82	63	42	107	82	18

NOTES (PERTAINING TO TABLE):
1. TOP BARS ARE HORIZONTAL BARS THAT HAVE MORE THAN 12" OF FRESH CONCRETE CAST BELOW THEM.
2. ALL BARS THAT ARE NOT "TOP BARS" ARE "OTHER" BARS
3. ABBREVIATIONS:
   - LCE - COMPRESSION EMBEDMENT LENGTH
   - LTE - TENSION EMBEDMENT LENGTH
   - LCS - COMPRESSION LAP SPLICE LENGTH
   - LTS - TENSION LAP SPLICE LENGTH
   - LDH - HOOKED BAR TENSION EMBEDMENT LENGTH

NOTES (GENERAL):
1. STAGGER ALL SPLICES 12 db MIN, BUT NOT LESS THAN 12"
2. ALL DIMENSIONS INDICATED IN TABLE ARE IN INCHES
3. BARS GREATER THAN #11 SHALL BE MECHANICALLY SPLICED
4. ALL SPLICES SHALL BE WIRED IN CONTACT STACKED VERTICAL.

MULTIPLIERS:
ALL EMBEDMENT AND LAP SPLICE LENGTHS SHALL BE INCREASED AS REQ'D BY THE MULTIPLIERS BELOW. APPLY MULTIPLE MULTIPLIERS IF APPLICABLE.
1.3 -- IF CONC CONTAINS LIGHT WEIGHT AGGREGATES
1.3 -- IF EPOXY COATED REBAR USED

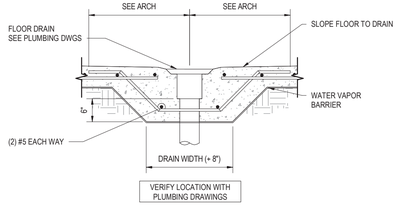
5 SPLICE & DEVELOPMENT SCHEDULE
NTS



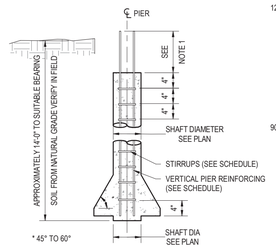
NOTES:

1. REFER TO PRE-ENGINEERED METAL BUILDING PLAN FOR ANCHOR ROD SIZE AND DESIGN WIND SPEED.
2. ANCHOR BOLT SHALL BE F1554 GRADE 36 WITH HEAVY HEX NUT. SIZES SPECIFIED BY THE METAL BUILDING SUPPLIER. EMBEDMENT LENGTHS CORRESPONDING TO ANCHOR BOLT DIAMETERS SHALL BE:
   - A. 5/8" DIAMETER BOLT: MIN 8" EMBEDMENT
   - B. 3/4" DIAMETER BOLT: MIN 12" EMBEDMENT
   - C. 1" DIAMETER BOLT: MIN 16" EMBEDMENT
   - D. 1-1/4" DIAMETER BOLT: MIN 20" EMBEDMENT
   - E. 1-1/2" DIAMETER BOLT: MIN 24" EMBEDMENT
3. UNLESS NOTED OTHERWISE, ALL ANCHOR RODS NUTS SHALL BE TIGHTENED TO A "SNUG TIGHT" CONDITIONED AS DEFINED BY AISC AFTER THE CONCRETE IS AT LEAST 14 DAYS OLD.
4. THE HOLE IN THE PLATE WASHER SHALL BE 1/16" LARGER THAN THE DIAMETER OF THE ANCHOR BOLT.

7 TYPICAL ANCHOR ROD DETAIL
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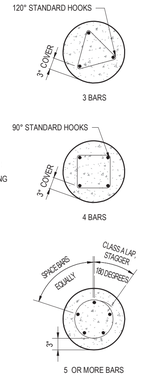
4 FLOOR DRAIN DETAIL
NTS



PIER SCHEDULE		
SHAFT/BELL	VERT. REINF.	STIRRUPS
18"Ø/54"Ø	(4) - #6	#3 @ 12"
30"Ø/90"Ø	(5) - #8	#3 @ 12"

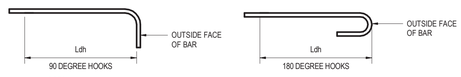
NOTE:

1. EXTEND FOOTING VERTICAL REINFORCING 18" MIN INTO GRADE BEAM. PROVIDE (4) - #6 x 4'-0" DOWELS AT SHAFT DIAMETERS GREATER THAN 14" AND EXTEND 18" MIN INTO GRADE BEAM.
2. PIERS SHALL BE POURED IMMEDIATELY UPON COMPLETION OF EXCAVATION AND CLEANING OF PIER BEARING SURFACE. ALL SPOIL FROM THE DRILLED PIER EXCAVATIONS SHALL BE REMOVED FROM THE BUILDING PAD.



6 UNDERREAMED DRILLED SHAFT DETAIL
NTS

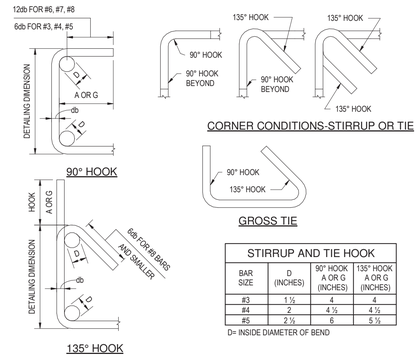
DEVELOPMENT LENGTHS OF STANDARD HOOKS IN TENSION GRADE 60 REINFORCEMENT, NORMAL CONCRETE													
BAR SIZE	fc=3000PSI		fc=4000PSI		fc=5000PSI		fc=6000PSI		fc=7000PSI		fc=8000PSI		BAR SIZE
	Lhb	0.7 Lhb	Lhb	0.7 Lhb	Lhb	0.7 Lhb	Lhb	0.7 Lhb	Lhb	0.7 Lhb	Lhb	0.7 Lhb	
#3	9	7	8	6	7	6	6	6	6	6	6	6	#3
#4	11	8	10	7	9	7	8	6	8	6	7	6	#4
#5	14	10	12	9	11	8	10	7	9	7	9	7	#5
#6	17	12	15	11	13	10	12	9	11	8	11	8	#6
#7	20	14	17	12	15	11	14	10	13	10	12	9	#7
#8	22	16	19	14	17	12	16	12	15	11	14	10	#8
#9	25	18	22	16	20	14	18	13	17	12	16	12	#9
#10	28	20	25	18	22	16	20	14	19	14	18	13	#10
#11	31	22	27	19	24	17	22	16	21	15	19	14	#11
#14	38	--	33	--	29	--	27	--	25	--	23	--	#14
#18	50	--	43	--	39	--	35	--	33	--	31	--	#18



NOTES:

1. Ldh = DEVELOPMENTAL LENGTH OF STANDARD HOOKS IN TENSION (INCHES).
2. Ldh = Lhb UNLESS CONDITIONS OF 3 SATISFIED.
3. Ldh = 0.7 Lhb FOR #11 BARS AND SMALLER WHEN SIDE COVER (NORMAL TO PLANE OF HOOK) IS NOT LESS THAN 2 1/2 INCHES AND FOR 90 DEGREE HOOKS COVER ON BAR EXTENSION BEYOND HOOK IS NOT LESS THAN 2 INCHES.
4. HOOKS ARE NOT CONSIDERED EFFECTIVE FOR DEVELOPING BAR IN COMPRESSION.
5. Ldh SHALL BE MULTIPLIED BY 1.2 FOR EPOXY-COATED HOOKED REINFORCEMENT BARS.

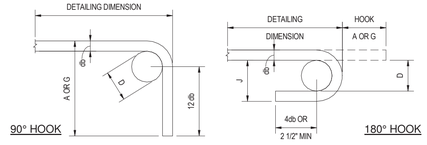
3 SPLICE & DEVELOPMENT SCHEDULE FOR HOOKS
NTS



STIRRUP AND TIE HOOK			
BAR SIZE	D (INCHES)	90° HOOK A OR G (INCHES)	135° HOOK A OR G (INCHES)
#3	1½	4	4
#4	2	4½	4½
#5	2½	6	5½

D= INSIDE DIAMETER OF BEND

2 TYPICAL STIRRUP AND TIE HOOK TYPES
NTS



END HOOK DIMENSIONS				
BAR SIZE	FINISHED BEND DIAMETER D, (INCHES)	180 ° HOOKS		90° HOOK
		A OR G' (INCHES)	J, (INCHES)	A OR G' (INCHES)
#3	2 ¼	5	3	6
#4	3	6	4	8
#5	3 ¾	7	5	10
#6	4 ½	8	6	12
#7	5 ¼	10	7	14
#8	6	11	8	16
#9	9 ⅛	15	11 ¾	19
#10	10 ⅛	17	13 ¼	22
#11	12	19	14 ¾	24
#14	18 ¼	27	21 ⅓	31
#18	24	36	28 ½	41

D= INSIDE DIAMETER OF BEND

1 TYPICAL END HOOK TYPES
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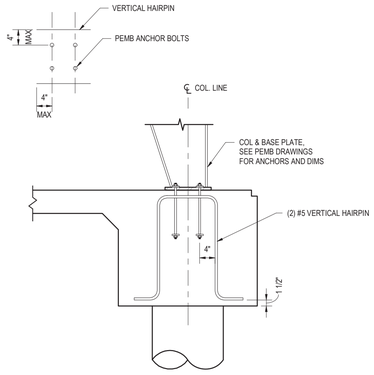
PROJECT NUMBER: 22-050

DATE: JUNE 30, 2022

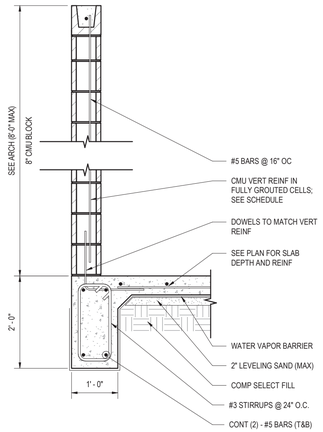
FOUNDATION DETAILS

SHEET NO.

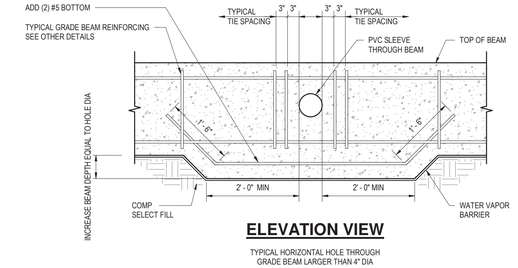
S-301



7 FOUNDATION - COLUMN HAIRPINS
NTS



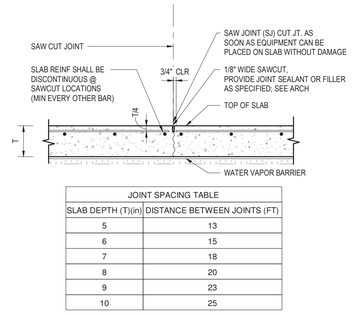
5 DUMPSTER ENCLOSURE DETAIL
NTS



ELEVATION VIEW

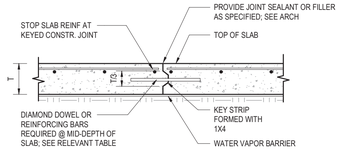
TYPICAL HORIZONTAL HOLE THROUGH GRADE BEAM LARGER THAN 4" DIA

2 GRADE BEAM PENETRATION DETAIL
NTS



JOINT SPACING TABLE	
SLAB DEPTH (T)(in)	DISTANCE BETWEEN JOINTS (FT)
5	13
6	15
7	18
8	20
9	23
10	25

CONTRACTION JOINT

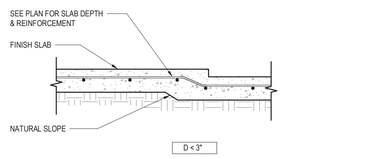


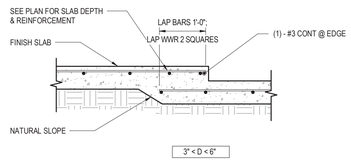
REINFORCING DOWEL TABLE			
SLAB DEPTH (T)(in)	DOWEL SIZE	DOWEL LENGTH	DOWEL SPACING
5	#6	16	12
6	#6	16	12
7	#8	18	12
8	#8	18	12
9	#10	18	12
10	#10	18	12

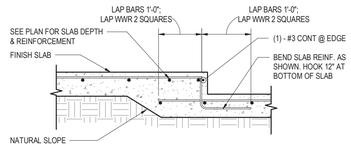
DIAMOND DOWEL TABLE		
SLAB DEPTH (T)(in)	PLATE SIZE	DOWEL SPACING
5 - 6	1/4"	18
7 - 9	3/8"	18
>9	3/4"	20

CONSTRUCTION JOINT

1 CONTRACTION/CONSTRUCTION JOINT DETAIL
NTS

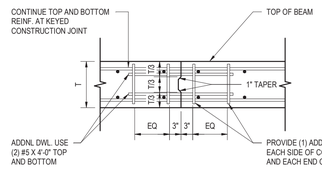






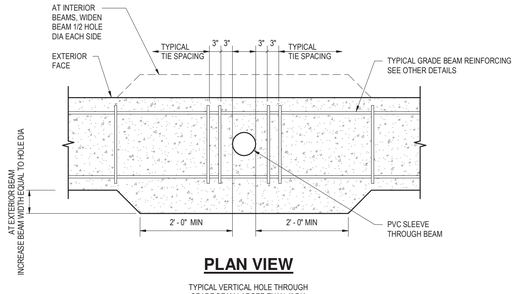
NOTES:
1. COORDINATE DEPTH AND LOCATION OF ALL FLOOR DEPRESSIONS WITH ARCHITECTURAL DRAWINGS.
2. PROVIDE (1) - #4 X 4'-0" TOP AT INTERIOR CORNERS OF ALL DEPRESSIONS.

6 TYPICAL SLAB RECESS DETAIL
NTS



NOTES:
1. GENERAL CONTRACTOR SHALL SUBMIT DESIRED CONSTRUCTION JOINT LAYOUT AS A SHOP DRAWING FOR APPROVAL A MINIMUM OF TWO WEEKS PRIOR TO POUR.
2. CONSTRUCTION JOINT LOCATIONS SHALL BE COORDINATED WITH REINFORCING STEEL SUPPLIER AND ERECTOR.

4 GRADE BEAM CONSTRUCTION JOINT
NTS



PLAN VIEW

TYPICAL VERTICAL HOLE THROUGH GRADE BEAM LARGER THAN 4" DIA

3 GRADE BEAM PENETRATION DETAIL
NTS

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129716
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STATE OF TEXAS
06/30/2022

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AMERICAN LEGION POST #490
11702 GALVESTON RD
HOUSTON, TX 77034

0	ISSUE FOR PERMIT	06/30/2022

SCALE: AS NOTED

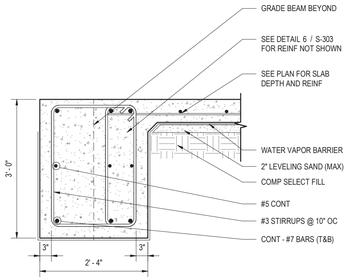
PROJECT NUMBER: 22-050

DATE: JUNE 30, 2022

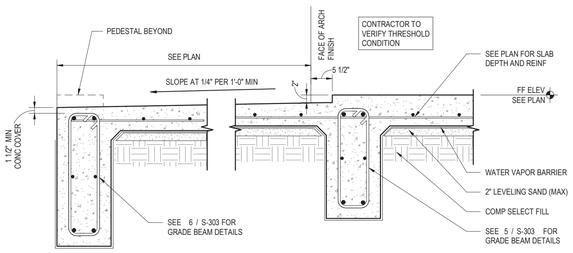
FOUNDATION DETAILS

SHEET NO.

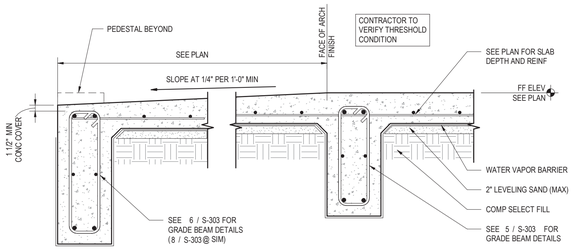
S-302



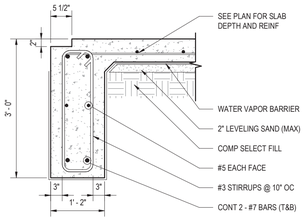
8 EXTERIOR GRADE BEAM DETAIL
NTS



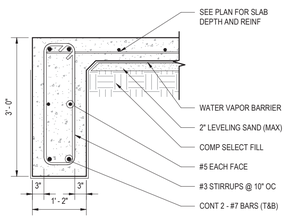
4 EXTERIOR GRADE BEAM AT ENTRY DETAIL
NTS



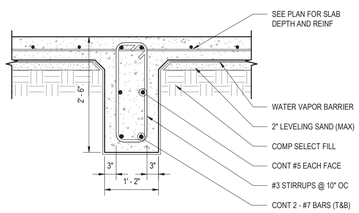
2 EXTERIOR GRADE BEAM AT ENTRY DOOR DETAIL
NTS



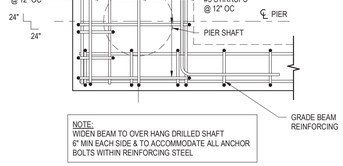
7 EXTERIOR GRADE BEAM DETAIL
3/4" = 1'-0"



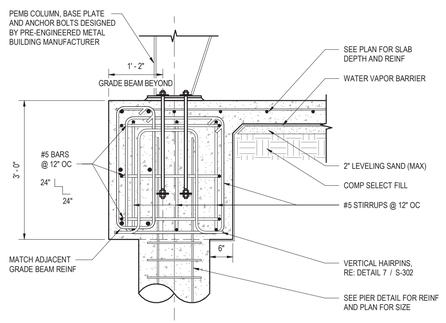
6 EXTERIOR GRADE BEAM DETAIL
3/4" = 1'-0"



5 INTERIOR GRADE BEAM DETAIL
NTS

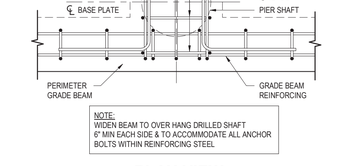


PLAN VIEW

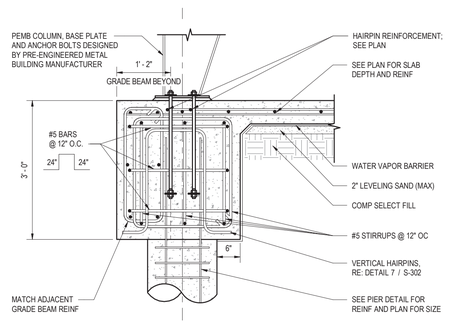


SECTION VIEW

3 GRADE BEAM AT CORNER PIER DETAIL
NTS



PLAN VIEW



SECTION VIEW

1 GRADE BEAM AT PEMB COLUMN DETAIL
NTS

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PROFESSIONAL ENGINEER
06/30/2022

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AMERICAN LEGION
POST #490
11702 GALVESTON RD
HOUSTON, TX 77034

0	ISSUE FOR PERMIT	06/30/2022

SCALE: AS NOTED
PROJECT NUMBER: 22-050
DATE: JUNE 30, 2022

FOUNDATION DETAILS

SHEET NO.
S-303

GENERAL NOTES:

1. INTERIOR DIMENSIONS SHOWN ON THIS PLAN ARE FROM FINISHED FACE OF GYP. BD. (NOT FACE OF WOOD STUD.)
2. DRYWALL CONTROL JOINTS REQUIRED AT 30'-0" O.C. MAX.
3. THE HEIGHT OF ANY FLOOR LEVEL CHANGE PLUS THE HEIGHT OF ANY APPLIED THRESHOLD AT DOORWAY SILLS SHALL NOT EXCEED 1/2" AND SHALL BE BEVELED WITH A SLOPE NOT TO EXCEED 1:2.
4. ALL TOILET ROOM FIXTURES AND ACCESSORIES SHALL COMPLY WITH STATE AND FEDERAL REQUIREMENTS FOR THE ELIMINATION OF ARCHITECTURAL BARRIERS FOR DISABLED PERSONS. RE: ACCESSIBLE SHEETS.
5. ALL ELECTRICAL PANELS, GUTTERS AND EQUIPMENT TO BE PAINTED TO MATCH ADJACENT WALL COLOR.
6. WALLS:
   A) THE EXTERIOR WALLS ARE COMPOSED OF MIN. 2x6 WOOD STUDS @ 16" O.C. F
   B) COLUMNS & POSTS EXPOSED TO WEATHER MUST BE TREATED.
   C) PROVIDE ADEQUATE VERTICAL SUPPORT (SOLID) UNDER THE ENDS OF ALL BEAMS.
   D) ALL EXTERIOR WALLS & MAIN CROSS STUD PARTITIONS SHALL BE BRACED AT EACH END & BRACED ONCE EVERY 25' OF WALL.
   E) ALL LUMBER DIRECTLY IN CONTACT WITH CONCRETE MUST BE TREATED.
7. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CONFIRMING OVERALL DIMENSIONS AND STRUCT. CONDITIONS PRIOR TO BEGINNING WORK. ANY DISCREPANCIES OR POTENTIALLY PROBLEMATIC CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE OWNER.
8. GENERAL CONTRACTOR SHALL VERIFY THE FOLLOWING DIMENSIONS AND REPORT ANY DISCREPANCIES OR DESIGN CONFLICTS TO THE CONSTRUCTION MANAGER: OVERALL FLOOR WIDTH AND DEPTH, COLUMN LOCATIONS AND SIZES, DRIVE AISLE LOCATION, STOREFRONT ENTRY LOCATION, AND CEILING HEIGHTS.
9. SUBCONTRACTORS ARE RESPONSIBLE FOR HAULING OFF ALL CONSTRUCTION TRASH.
10. FIRE EXTINGUISHERS ARE TO BE INSTALLED DURING TENANT BUILD OUT PER IFC 906.
11. REFER TO MFR. FOR TYPICAL USE OF METAL STUDS THROUGHOUT THIS PROJECT.

SYMBOL LEGEND:

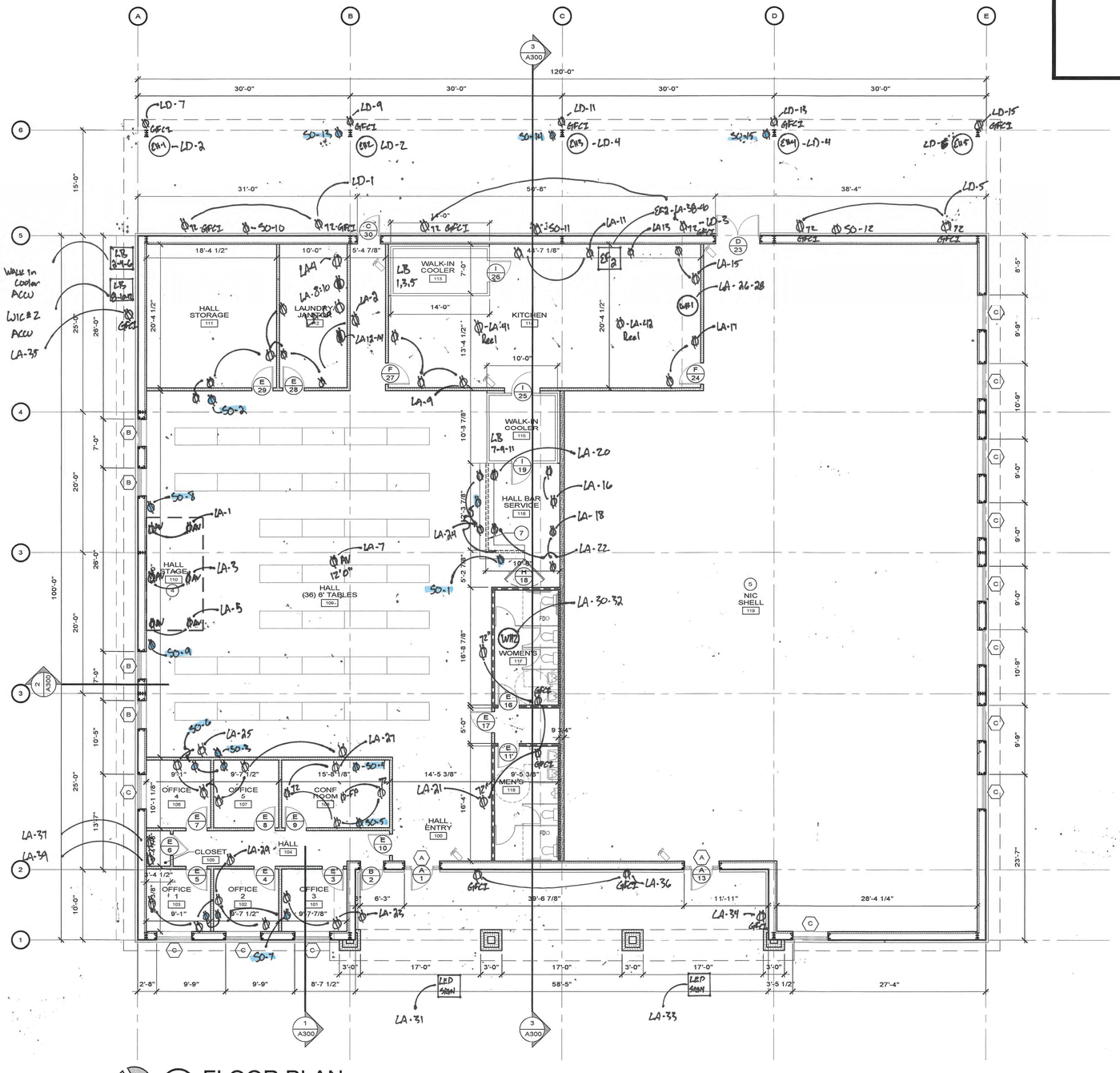
- SECTION DETAIL NUMBER / SECTION SHEET NUMBER (1 / A100)
- DOOR TYPE, RE: A500 (A / 9)
- DOOR NUMBER REFERENCE KEY
- ELEVATION KEY (1/A200)
- ENLARGED PLAN OR SECTION DETAIL REFERENCE KEY (X/AXXX)
- KEYED NOTE (A)
- COLUMN GRID NUMBER (1)
- WINDOW TYPE, RE: A500 (02)
- PORTABLE FIRE EXTINGUISHER PER IFC 2018, 3-A 40-B C MIN.

WALL LEGEND:

- METAL BUILDING WITH 2-1/2" MTL. STUD FURING W/ 5/8" GYP. BD. W/ SPRAY FOAM INSULATION TO EXTEND TO DECK, UNLESS NOTED OTHERWISE.
- 6" MTL. STUDS @ 16" O.C., TO EXTEND TO DECK. RE: SECTIONS & FLOOR PLAN LEGEND FOR INSULATION & SHEATHING
- BRICK MASONRY W/ MASONRY TIES ON STRUCT. C.M.U.
- WINDOW FRAME & GLAZING
- INTERIOR PARTITION TO EXTEND TO BOTTOM OF CEILING, TO BE CONSTRUCTED OF 3-5/8" MTL. STUDS @ 16" O.C. W/ 5/8" SHEATHING, BOTH SIDES
- INTERIOR PARTITION TO EXTEND 12" ABOVE CEILING, TO BE CONSTRUCTED OF 3-5/8" MTL. STUDS @ 16" O.C. W/ R13 BATT. INSULATION & 5/8" WATER RESISTANT SHEATHING @ RESTROOM SIDE
- INTERIOR PARTITION TO EXTEND 12" ABOVE CEILING, TO BE CONSTRUCTED OF 2-1/2" MTL. STUDS @ 16" O.C. W/ R13 BATT. INSULATION & 5/8" WATER RESISTANT SHEATHING @ RESTROOM SIDE
- PARTIAL HEIGHT PARTITION WALL, RE: SECTIONS
- COOLER WALLS BY OTHER

KEYED NOTES:

1. ELECTRICAL EQUIPMENT. RE: ELEC.
2. PRE-FINISHED METAL DOWNSPOUT, TYP.
3. EXTENTS OF SIDEWALK, RE: A001 FOR MORE INFORMATION
4. STAGES ARE NOT RAISED PLATFORMS, TO BE LEVEL WITH FINISH FLOOR
5. EMPTY SHELL, FUTURE BUILD OUT.
6. 34" HIGH ACCESSIBLE COUNTER.
7. PARTIAL HEIGHT WALL, TYP. RE: SECTIONS



01 FLOOR PLAN
SCALE: 1/8" = 1'-0"

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POST #490
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HOUSTON, TX 77034

TMEL #25334

SCALE: AS NOTED
PROJECT NUMBER:
DATE: JULY 05, 2022

ELECTRICAL FLOOR PLAN (POWER)

SHEET NO.
E100

GENERAL NOTES:

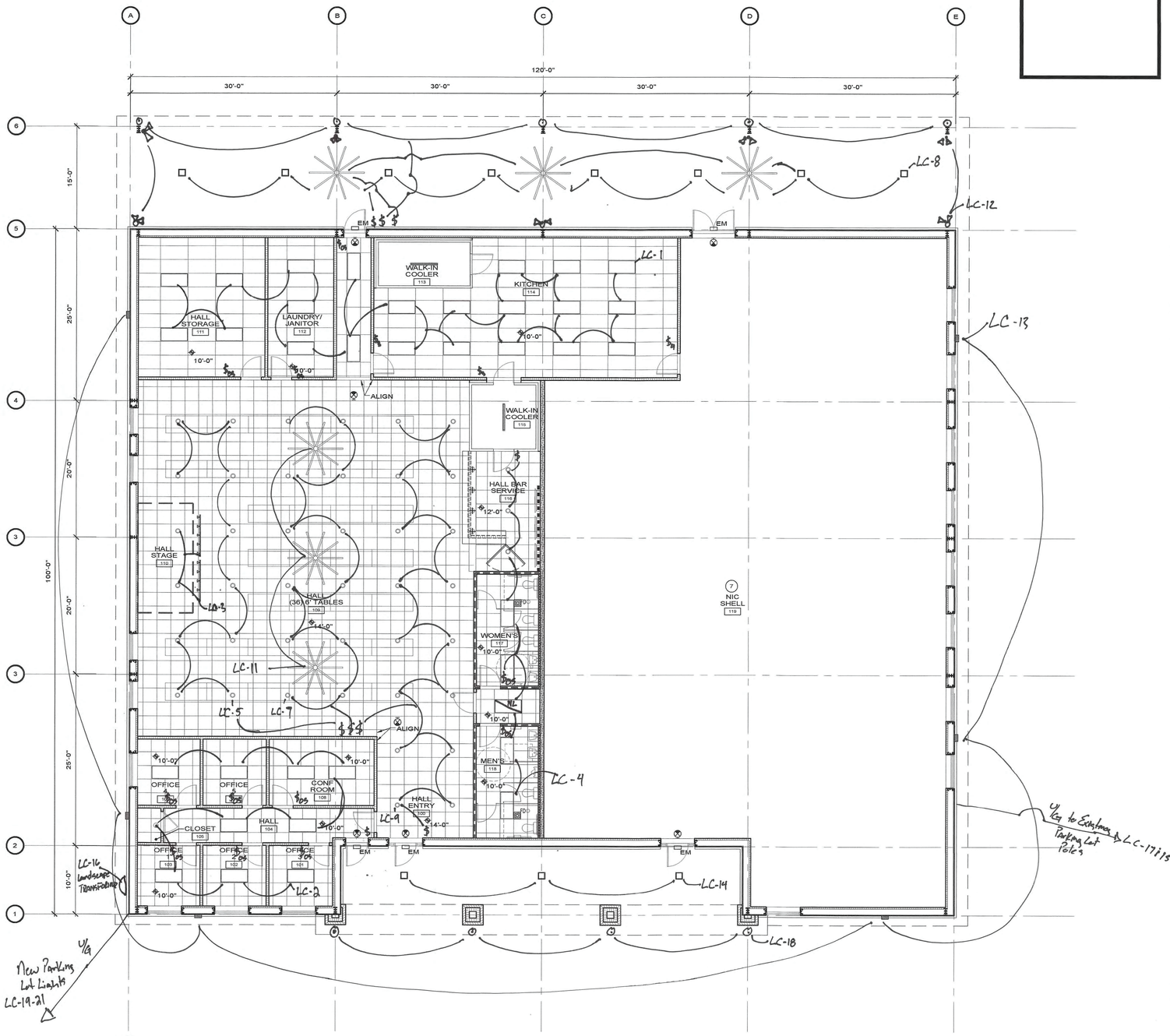
1. REFER TO FINISH SCHEDULE FOR FURTHER DEFINITION OF CEILING MATERIALS AND FINISHES.
2. ACOUSTIC CEILING TILE HEIGHT WILL TYPICALLY BE 10'-0" A.F.F. UNLESS OTHERWISE NOTED ON REFLECTED CEILING PLAN.
3. ALL PARTITIONS TO GO TO 6" ABOVE CEILING GRID UNLESS OTHERWISE NOTED ON FLOOR PLAN.
4. OWNER TO FURNISH EXTERIOR SIGNAGE & GC TO PROVIDE BLOCKING AND ELEC
5. REFER TO MECHANICAL DWGS. FOR LOCATIONS OF RETURN & SUPPLY VENTS.
6. (— — —) WALLS TO HAVE SOUND ATTENUATION INSULATION.
7. CEILINGS SHALL NOT BE USED FOR SUPPORTING ANY BUILDING INSULATION. ROOF CONSTRUCTION PROVIDES THE REQUIRED INSULATION VALUE.
8. CEILING LIGHTS ARE TO BE WIRED TO STRUCT. MEMBERS AT THE DIAGONAL CORNERS. DO NOT ATTACH CEILING COMPONENTS TO ROOF DECK.
9. ALL RETURN AIR GRILLES, SUPPLY DIFUSERS AND ACCESS PANELS TO BE FINISHED TO MATCH THE ADJACENT CEILING.
10. COORDINATE ALL MECHANICAL AND ELECTRICAL WITH MEP DRAWINGS.

KEYED NOTES:

1. FIXTURE IS TO BE CENTERED IN ROOM.
2. EQUIPMENT PLATFORM, ABOVE. RE: 2/A301
3. SLAT WALL LED COVE LIGHT, RE: 9/A300
4. CANTILEVER PLATFORM AT ACCESS LADDER. RE: 1/A302
5. PRE-FINISHED METAL PANELS TO FULLY BOX IN PERIMETER STRUCTURE. (PANELS SUPPLIED BY PEMB MANUF)
6. CEILING TO BE METAL PANEL SOFFIT (PANELS SUPPLIED BY PEMB MANUF)
7. SHELL SPACE, OPEN TO DECK

LEGEND:

- 2'x 4' LED LIGHT FIXTURE
- 24" X 24", 1" WHITE MTL. GRID W/ ARMSTRONG #704 CORTEGA CLASS A CLG. TILE, OR EQ. CERTAINTEED PRODUCT
- 4' LED VAPOR TIGHT FIXTURE
- GYP. BD. CEILING
- CEILING FAN
- WHITE TRACK LIGHT; RE: ELECT.
- DISCO BALL PROVIDED BY TENANT, RE: ELECTRICAL
- DIMMABLE LED STRIP; RE: ELECT.
- DIMMABLE LED RECESSED CAN FIXTURE
- LED EXTERIOR WALL PACK
- EXTERIOR LED SURFACE MOUNTED LIGHT FIXTURE
- LED SEMI-RECESSED CAN FIXTURE
- EM LED EMERGENCY EXIT LIGHTING, MOUNT AT 9'-0" TO BOTT. FIXTURE
- EXHAUST; RE: MECH.
- EXIT SIGN; RE: ELECT.
- DECORATIVE PENDANT



01 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

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TDLR #25334

SCALE: AS NOTED
PROJECT NUMBER:
DATE: JULY 05, 2022

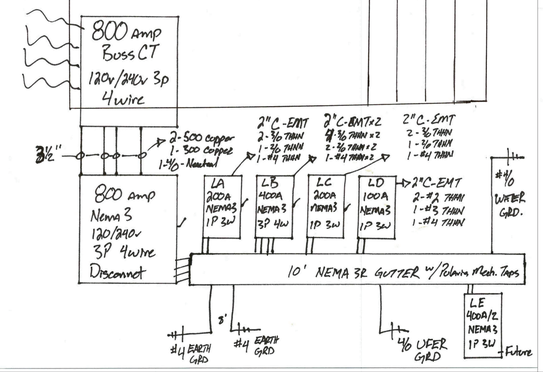
ELECTRICAL CEILING PLAN (LIGHTING)

SHEET NO.
E200

BOSS ELECTRIC, INC.
— Tenant Finish Specialists —

120/240 3P 4W

SUB NAME / ADDRESS	A	B	C	N
American Legion Post #490 - 11702 Galveston Rd				
Lighting - 57400 SF @ 3.5 watts	79	79		79
Receptacles - 57400 SF @ 3.5 watts / 7% outlets @ 1.5A	114	114		114
Mechanical 1-15 Ton GAS HEAT 4-5 Ton - 20KVA HEAT STRIPS	240	240	240	0
Misc. Kva Kitchen & Bar Equip. 22 Kw	91	91		91
*Future Build Out 30Kw load	#125	#125		#125
Total	529	529	240	529



PANEL "LC" — LOCATION: Electrical Room — 120/240 VOLTS, 1 Ø 3 WIRE — 200 AMPS — Surface MTD.

wire size	QTY	DESCRIPTION	bkr. size	ckt #
12	1	LED Lights - 111, 112, 114	20	1
12	1	LED Can Lights - Stage	20	3
12	1	LED Can Lights - HALL	20	5
12	1	LED Can Lights - HALL	20	7
12	1	LED Can Lights - HALL	20	9
12	1	LED Can Lights - Hall	20	11
12	1	LED Exterior Wall Packs	20	13
12		Existing Parking Lot Pole	20	15
12			20	17
12		~~NEW~~ Parking Lot Poles		19
12				21
				23
				25
				27
				29
				31
				33
				35
				37
				39
				41

ckt #	bkr. size	DESCRIPTION	QTY	wire size
2	20	LED Can Lights - Office		12
4	20	LED Can Lights - Bar/Hall		12
6	20	LED Can Lights - Entry, Hall		12
8	20	LED Strip - Patio		12
10	20	LED Sconce - Patio		12
12	20	LED - Patio Security Lts		12
14	20	LED - Front Spot Lights		12
16	20	LED - Landscape Lts		12
18	20	LED - 4 Pillars Lts		12
20				
22				
24				
26				
28				
30				
32				
34				
36				
38				
40				
42				

PANEL "LD" — LOCATION: Electrical Room — 120/240 VOLTS, 1 Ø 3 WIRE — 100 AMPS — Surface MTD.

wire size	QTY	DESCRIPTION	bkr. size	ckt #
12	1	Patio - East Plugs	20	1
12	1	Patio Center Plugs	20	3
12	1	Patio Celest Plugs	20	5
12	1	Ext Columns GFCI	20	7
12	1	Ext Columns GFCI	20	9
12	1	Ext Columns GFCI	20	11
12	1	Ext Columns GFCI	20	13
12	1	Ext Columns GFCI	20	15
				17
				19
				21
				23
				25
				27
				29
				31
				33
				35
				37
				39
				41

ckt #	bkr. size	DESCRIPTION	QTY	wire size
2	20	Electric Heater #1 ; #2	2	12
4	20	Electric Heater #3 ; #4	2	12
6	20	Electric Heater #5	1	12
8	20	Patio Fans	1	12
10	20	Patio Fans	1	12
12				
14				
16				
18				
20				
22				
24				
26				
28				
30				
32				
34				
36				
38				
40				
42				

PANEL "LB" — LOCATION: Electrical Room — 120/240 VOLTS, 3 Ø 4 WIRE — 400 AMPS — Surface MTD.

wire size	QTY	DESCRIPTION	bkr. size	ckt #
12	1	AHU	20	1
12	1	Walk in Cooler	20	3
12	1	Kitchen	20	5
12	1	AHU	20	7
12	1	Walk in Cooler	20	9
12	1	Bar	20	11
8		AHU	40	13
8		AC #1	40	15
8		Hall Storage & Laundry	40	17
8		AHU	40	19
8		AC #2	40	21
8		Kitchen	40	23
8		AHU	40	25
8		AC #3	40	27
8		Bar & Restrooms	40	29
8		AHU		31
8		AC #4		33
8		OFFICE		35
3			80	37
3		Backunit Hall	80	39
3			80	41

ckt #	bkr. size	DESCRIPTION	QTY	wire size
2	20	ACCU	1	12
4	20	Walk in Cooler	1	12
6	20	Kitchen	1	12
8	20	ACCU	1	12
10	20	Walk in Cooler	1	12
12	20	BAR	1	12
14	20	ACCU		12
16	20	AC #1		12
18	20	Hall Storage & Laundry		12
20	20	ACCU		12
22	20	AC #2		12
24	20	Kitchen		12
26	20	ACCU		12
28	20	AC #3		12
30	20	Bar & Restrooms		12
32	20	ACCU		12
34	20	AC #4		12
36	20	OFFICE		12
38				
40				
42				

PANEL "LA" — LOCATION: Electrical Room — 120/240 VOLTS, 1 Ø 3 WIRE — 200 AMPS — Surface MTD.

wire size	QTY	DESCRIPTION	bkr. size	ckt #
12	2	Storage Floor Plugs	20	1
12	2	Storage Floor Plugs	20	3
12	2	Storage Floor Plugs	20	5
12	1	Projector Plugs	20	7
12	3	Kitchen Plugs	20	9
12	2	Kitchen Plugs	20	11
12	1	Oven Plugs	20	13
12	2	Kitchen Plugs	20	15
12	2	Kitchen Plugs	20	17
12	1	EF-1 Mens Women RR	20	19
12	4	Restroom GFCI & TV Plugs	20	21
12	3	OFFICE #2 ; Porch GFCI	20	23
12	5	OFFICE #4 ; #5	20	25
12	5	Conference Rm	20	27
12	5	OFFICE #1 ; #2	20	29
12	1	Building Stage	20	31
12	1	Building Stage	20	33
12	1	ACCU GFCI	20	35
12	2	IT Room Quad	20	37
12	2	IT Room Quad	20	39
12	2	Kitchen Reel Outlets		41

ckt #	bkr. size	DESCRIPTION	QTY	wire size
2	20	Storage & Laundry Plugs	7	12
4	20	Washing Machine	1	12
6	20	Washing Machine	1	12
8	30	DRYER	1	10
10	30		1	10
12	30	DRYER	1	10
14	30		1	10
16	20	Hall Bar Plugs	2	12
18	20	Hall Bar Plugs	2	12
20	20	Under Bar Plugs - DED	1	12
22	20	Under Bar Plug - DED	1	12
24	20	Under Bar Charge Plug	2	12
26	50	WH #1	1	10
28	30		1	10
30	30	WH #2	1	10
32	30		1	10
34	20	Front Porch GFCI Rt	1	12
36	20	Front Porch GFCI Center	1	12
38	20	Kitchen Hood Exhaust	1	12
40	20	Kitchen Hood Supply #1	1	12
42	20	Kitchen Reel Outlet	1	12

PANEL "SO" — LOCATION: Elect. Room — 120/240 VOLTS, 1 Ø 3 WIRE — 100 AMPS — Surface MTD.

wire size	QTY	DESCRIPTION	bkr. size	ckt #
12	2	Under Bartop Plugs	20	1
12	1	HALL Plugs NE	20	3
12	1	Conference Rm	20	5
12	3	OFFICE #1, #2, #3	20	7
12	1	Stage Pt	20	9
12	1	Back Porch Center	20	11
12	1	Patio Columns SE	20	13
12	1	Patio Columns SW	20	15
				17
				19
				21
				23
				25
				27
				29
				31
				33
				35
				37
				39
				41

ckt #	bkr. size	DESCRIPTION	QTY	wire size
2	20	Hall Plugs SE	1	12
4	20	Conference Rm	1	12
6	20	OFFICE #4 ; #5	2	12
8	20	Stage LE	1	12
10	20	Back Porch East	1	12
12	20	Back Porch West	1	12
14	20	Patio Columns Center	1	12
16				
18				
20				
22				
24				
26				
28				
30				
32				
34				
36				
38				
40				
42				

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AMERICAN LEGION
POST #490
11702 GALVESTON RD
HOUSTON, TX 77034

SCALE: AS NOTED

PROJECT NUMBER:

DATE: JULY 06, 2022

LOAD ANALYSIS/
ONE-LINE DIAGRAM

SHEET NO.

E300

GENERAL NOTES:

1. INTERIOR DIMENSIONS SHOWN ON THIS PLAN ARE FROM FINISHED FACE OF GYP. BD. (NOT FACE OF WOOD STUD.)
2. DRYWALL CONTROL JOINTS REQUIRED AT 30'-0" O.C. MAX.
3. THE HEIGHT OF ANY FLOOR LEVEL CHANGE PLUS THE HEIGHT OF ANY APPLIED THRESHOLD AT DOORWAY SILLS SHALL NOT EXCEED 1/2" AND SHALL BE BEVELED WITH A SLOPE NOT TO EXCEED 1:2.
4. ALL TOILET ROOM FIXTURES AND ACCESSORIES SHALL COMPLY WITH STATE AND FEDERAL REQUIREMENTS FOR THE ELIMINATION OF ARCHITECTURAL BARRIERS FOR DISABLED PERSONS. RE: ACCESSIBLE SHEETS.
5. ALL ELECTRICAL PANELS, GUTTERS AND EQUIPMENT TO BE PAINTED TO MATCH ADJACENT WALL COLOR.
6. WALLS:
   A) THE EXTERIOR WALLS ARE COMPOSED OF MIN. 2x6 WOOD STUDS @ 16" O.C. F
   B) COLUMNS & POSTS EXPOSED TO WEATHER MUST BE TREATED.
   C) PROVIDE ADEQUATE VERTICAL SUPPORT (SOLID) UNDER THE ENDS OF ALL BEAMS.
   D) ALL EXTERIOR WALLS & MAIN GROSS STUD PARTITIONS SHALL BE BRACED AT EACH END & BRACED ONCE EVERY 25' OF WALL.
   E) ALL LUMBER DIRECTLY IN CONTACT WITH CONCRETE MUST BE TREATED.
7. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CONFIRMING OVERALL DIMENSIONS AND STRUCT. CONDITIONS PRIOR TO BEGINNING WORK. ANY DISCREPANCIES OR POTENTIALLY PROBLEMATIC CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE OWNER.
8. GENERAL CONTRACTOR SHALL VERIFY THE FOLLOWING DIMENSIONS AND REPORT ANY DISCREPANCIES OR DESIGN CONFLICTS TO THE CONSTRUCTION MANAGER: OVERALL FLOOR WIDTH AND DEPTH, COLUMN LOCATIONS AND SIZES, DRIVE AISLE LOCATION, STOREFRONT ENTRY LOCATION, AND CEILING HEIGHTS.
9. SUBCONTRACTORS ARE RESPONSIBLE FOR HAULING OFF ALL CONSTRUCTION TRASH.
10. FIRE EXTINGUISHERS ARE TO BE INSTALLED DURING TENANT BUILD OUT PER IFC 906.
11. REFER TO MFR. FOR TYPICAL USE OF METAL STUDS THROUGHOUT THIS PROJECT.

SYMBOL LEGEND:

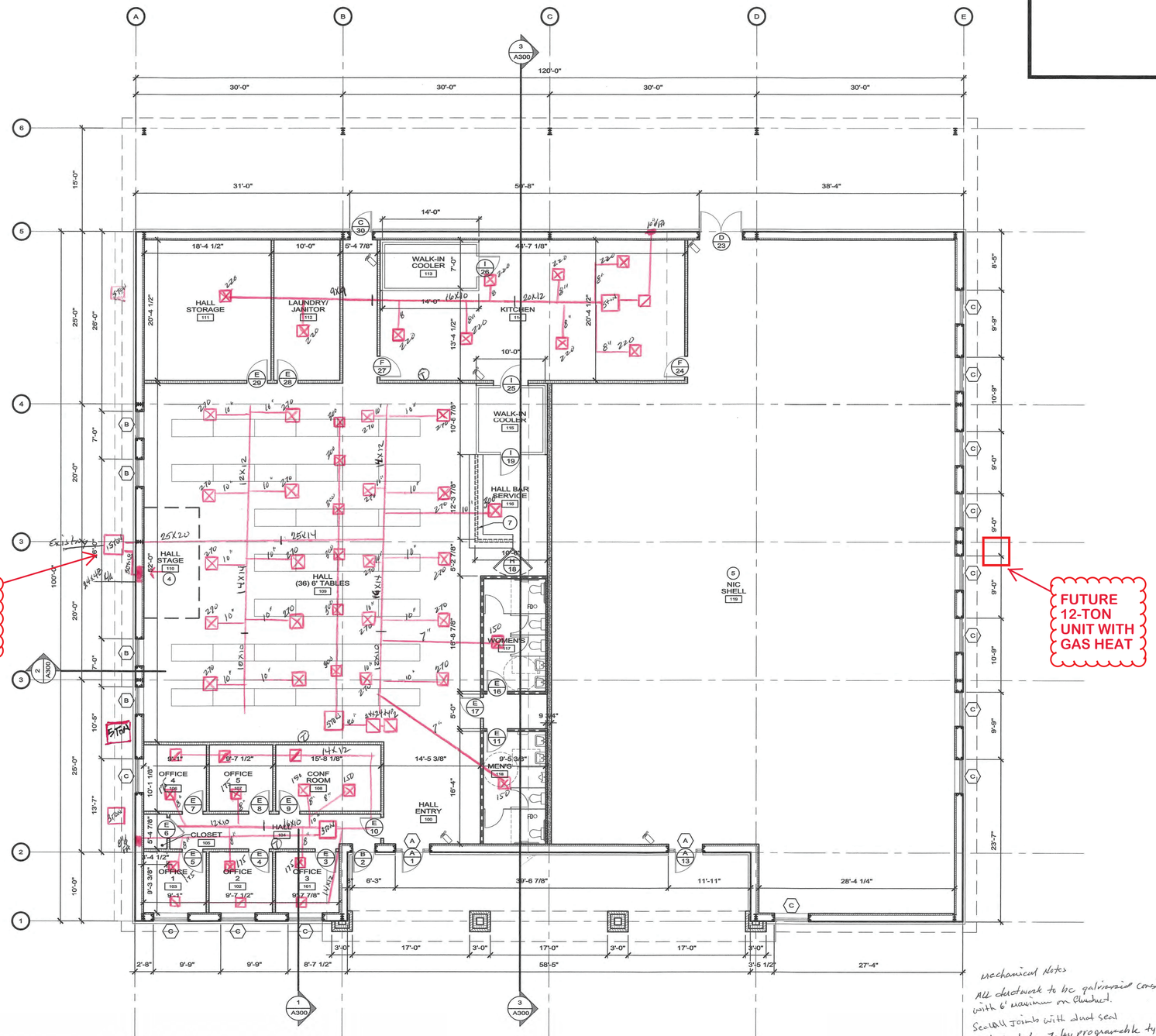
- 1 / A100 — SECTION DETAIL NUMBER / SECTION SHEET NUMBER
- X/AXXX — ENLARGED PLAN OR SECTION DETAIL REFERENCE KEY
- 1 — COLUMN GRID NUMBER
- PORTABLE FIRE EXTINGUISHER PER IFC 2018, 3-A 40-B C MIN.
- A-1 / B — DOOR TYPE, RE: A500 / DOOR NUMBER REFERENCE KEY
- 1/A200 — ELEVATION KEY
- A — KEYED NOTE
- 02 — WINDOW TYPE, RE: A500

WALL LEGEND:

- METAL BUILDING WITH 2-1/2" MTL. STUD FURING W/ 5/8" GYP. BD. W/ SPRAY FOAM INSULATION TO EXTEND TO DECK, UNLESS NOTED OTHERWISE.
- 6" MTL. STUDS @ 16" O.C., TO EXTEND TO DECK. RE: SECTIONS & FLOOR PLAN LEGEND FOR INSULATION & SHEATHING
- BRICK MASONRY W/ MASONRY TIES ON STRUCT. C.M.U.
- WINDOW FRAME & GLAZING
- INTERIOR PARTITION TO EXTEND TO BOTTOM OF CEILING, TO BE CONSTRUCTED OF 3-5/8" MTL. STUDS @ 16" O.C. W/ 5/8" SHEATHING, BOTH SIDES
- INTERIOR PARTITION TO EXTEND 12" ABOVE CEILING, TO BE CONSTRUCTED OF 3-5/8" MTL. STUDS @ 16" O.C. W/ R13 BATT. INSULATION & 5/8" WATER RESISTANT SHEATHING @ RESTROOM SIDE
- INTERIOR PARTITION TO EXTEND 12" ABOVE CEILING, TO BE CONSTRUCTED OF 2-1/2" MTL. STUDS @ 16" O.C. W/ R13 BATT. INSULATION & 5/8" WATER RESISTANT SHEATHING @ RESTROOM SIDE
- PARTIAL HEIGHT PARTITION WALL, RE: SECTIONS
- COOLER WALLS BY OTHER

KEYED NOTES:

1. ELECTRICAL EQUIPMENT. RE: ELEC.
2. PRE-FINISHED METAL DOWNSPOUT, TYP.
3. EXTENTS OF SIDEWALK, RE: A001 FOR MORE INFORMATION
4. STAGES ARE NOT RAISED PLATFORMS, TO BE LEVEL WITH FINISH FLOOR
5. EMPTY SHELL, FUTURE BUILD OUT.
6. 34" HIGH ACCESSIBLE COUNTER.
7. PARTIAL HEIGHT WALL, TYP. RE: SECTIONS



01 FLOOR PLAN
SCALE: 1/8" = 1'-0"

Equipment Schedule

Rund	RAH36AC1HD	208/230V	3ph	Condenser
	RHIP3617STANJA	208/230 V	3ph	Air handler
	RBH-1724A10C	208/230V	3ph	heat STRIP
Rund	RAH60CC1HD	208/230V	3ph	Condenser
	RHIT6024STANJA	208/230V	3ph	Air Handler
	RXBH-1724A15C	208/230V	3ph	heat Strip

Rund RKAL-618ODL25ERJA 208/230V 3P Packaged unit (existing) 172,800 BTU heater

Exhaust Rest Room 80 CFM 120 V
Laundry 100 CFM 120 V

Grilles 2x2 Lorin Jaillo

Air Cond Southeast
CARL Highfill
615 KANSAS ST
S. Houston TX 77587
713-946-4302
TACLA000279C

Mechanical Notes
All ductwork to be galvanized construction with 6' maximum on Centers.
Seal all joints with duct seal
Controls to be 7-day programmable type
Drains to terminate in approved Location
R8 insulation externally wrapped flex duct to be R-8

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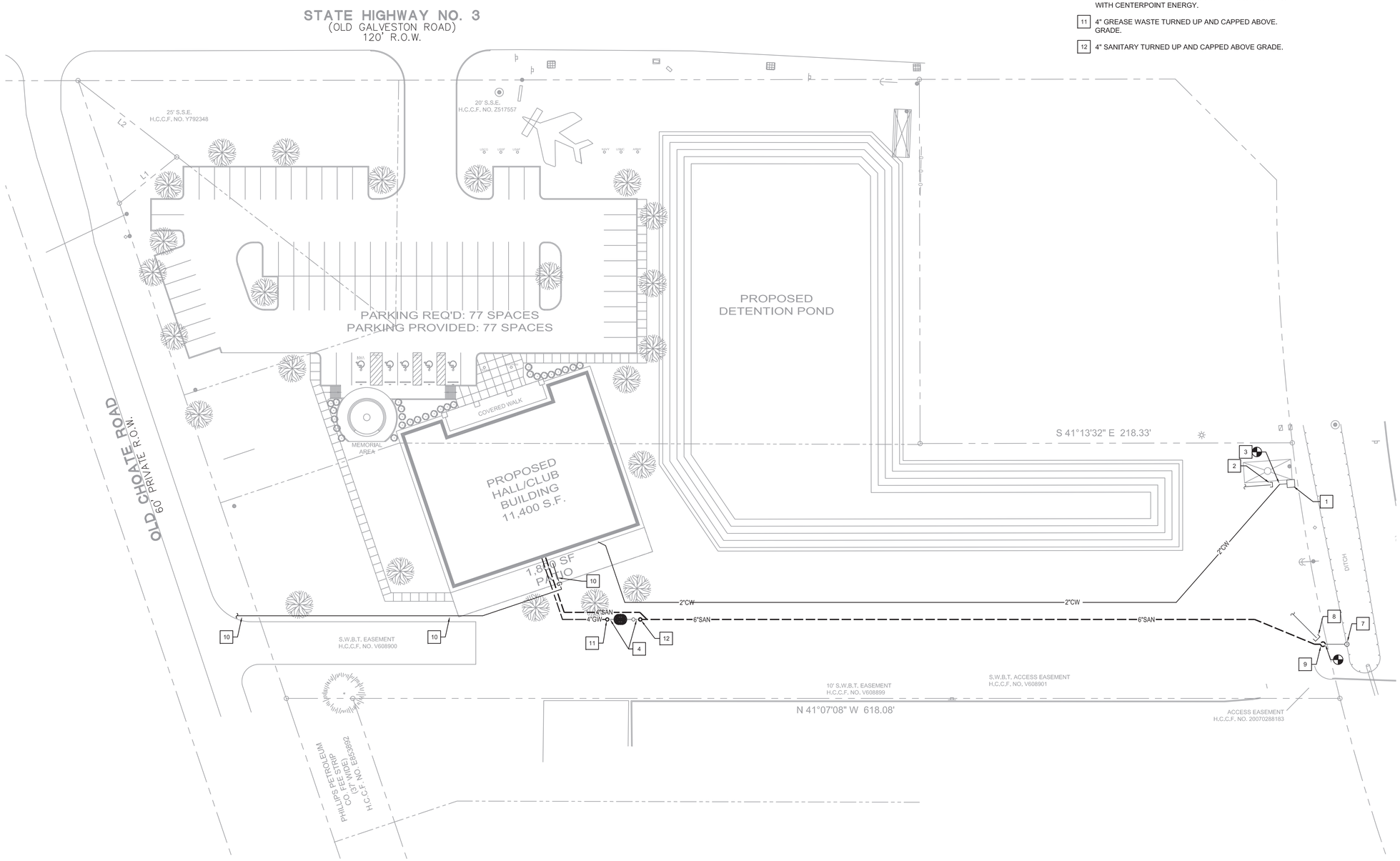
SCALE: AS NOTED
PROJECT NUMBER:
DATE: JULY 05, 2022

MECHANICAL

SHEET NO.
M100

PLUMBING KEYED NOTES:

1. EXISTING WATER METER TO REMAIN.
2. CAP EXISTING 2" DOMESTIC WATER MAIN.
3. CONNECT NEW 2" DOMESTIC WATER TO EXISTING 2" DOMESTIC WATER DOWNSTREAM OF EXISTING WATER METER.
4. PROVIDE SPACE FOR FUTURE GREASE INTERCEPTOR AND SAMPLE WELL.
5. CAP GREASE WASTE LINE FOR FUTURE GREASE INTERCEPTOR.
6. CAP SANITARY LINE FOR FUTURE GREASE INTERCEPTOR.
7. EXISTING MANHOLE TO REMAIN.
8. CAP EXISTING SANITARY.
9. PROVIDE NEW SAMPLE WELL (PER CITY OF HOUSTON SPECIFICATIONS) ON EXISTING SANITARY. REFER TO DETAIL ON SHEET P4.02
10. PROPOSED ROUTING OF NEW GAS SERVICE BY CENTERPOINT ENERGY. COORDINATE EXACT ROUTING WITH CENTERPOINT ENERGY.
11. 4" GREASE WASTE TURNED UP AND CAPPED ABOVE. GRADE.
12. 4" SANITARY TURNED UP AND CAPPED ABOVE GRADE.



N

1 **PLUMBING SITE PLAN**
SCALE: 1" = 30'

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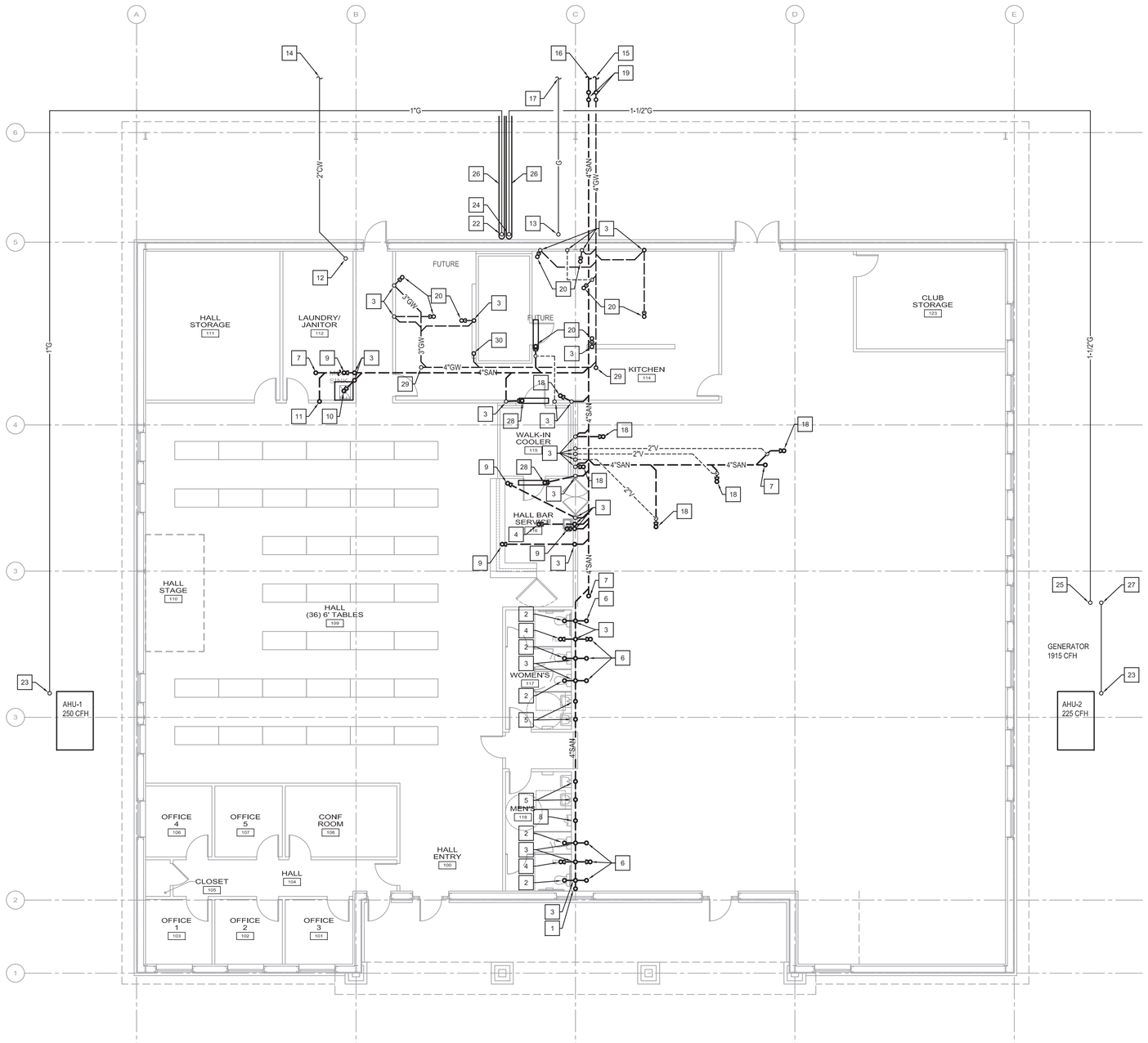
SCALE: AS NOTED

PROJECT NUMBER:

DATE: AUGUST 15, 2022

PLUMBING SITE PLAN

SHEET NO.
P101



N

1 **PLUMBING FLOOR PLAN**
SCALE: 1/8" = 1'-0"

PLUMBING KEYED NOTES:

1. 4" SANITARY FROM WALL CLEANOUT ABOVE.
2. 4" SANITARY FROM WATER CLOSET ABOVE.
3. 2" VENT UP.
4. 3" SANITARY FROM FLOOR DRAIN ABOVE.
5. 2" SANITARY FROM LAVATORY ABOVE.
6. SANITARY CAPPED FLUSH WITH SLAB FOR FUTURE RESTROOM.
7. 4" SANITARY FROM FLOOR CLEANOUT ABOVE.
8. 3" SANITARY FROM URINAL ABOVE.
9. 3" SANITARY FROM FLOOR SINK ABOVE.
10. 3" SANITARY FROM MOP SINK ABOVE.
11. 2" SANITARY FROM EMERGENCY EYEWASH ABOVE.
12. 2" DOMESTIC COLD WATER UP THRU SLAB ABOVE.
13. GAS LINE UP TO METER BY CENTERPOINT ENERGY. REFER TO SHEET P2.02 AND P3.01 FOR ADDITIONAL DETAIL.
14. 2" DOMESTIC WATER. REFER TO SHEET P1.01 FOR CONTINUATION.
15. 4" GREASE WASTE, REFER TO SHEET P1.01 FOR CONTINUATION.
16. 4" SANITARY, REFER TO SHEET P1.01 FOR CONTINUATION.
17. CENTERPOINT GAS LINE, REFER TO SHEET P1.01 FOR PROPOSED ROUTING.
18. SANITARY CAPPED FLUSH WITH SLAB FOR FUTURE FLOOR DRAIN/FLOOR SINK.
19. 4" SANITARY FROM TWO-WAY EXTERIOR CLEANOUT ABOVE.
20. 3" GREASE WASTE CAPPED FLUSH WITH SLAB FOR FUTURE FLOOR DRAIN/FLOOR SINK.
21. 4" SANITARY CAPPED FOR FUTURE KITCHEN.
22. 1" GAS AT 5 PSI FROM GAS HEADER ABOVE.
23. 1" GAS UP AT 5 PSI TO SERVE HVAC EQUIPMENT ABOVE.
24. 1-1/2" GAS AT 5 PSI FROM GAS HEADER ABOVE.
25. 1-1/2" GAS UP AT 5 PSI TO SERVE EMERGENCY GENERATOR ABOVE.
26. PROVIDE 4" PVC SLEEVE FROM 6" ABOVE FINISHED SLAB TO 12" BEYOND EDGE OF SLAB. ROUTE GAS PIPING WITHIN SLEEVE.
27. 1" GAS AT 5 PSI GAS FROM ABOVE
28. 3" SANITARY FROM TRENCH DRAIN ABOVE.
29. 4" GREASE WASTE FROM FLOOR CLEANOUT ABOVE.
30. 2" GREASE WASTE CAPPED FLUSH WITH SLAB FOR FUTURE HAND SINK.

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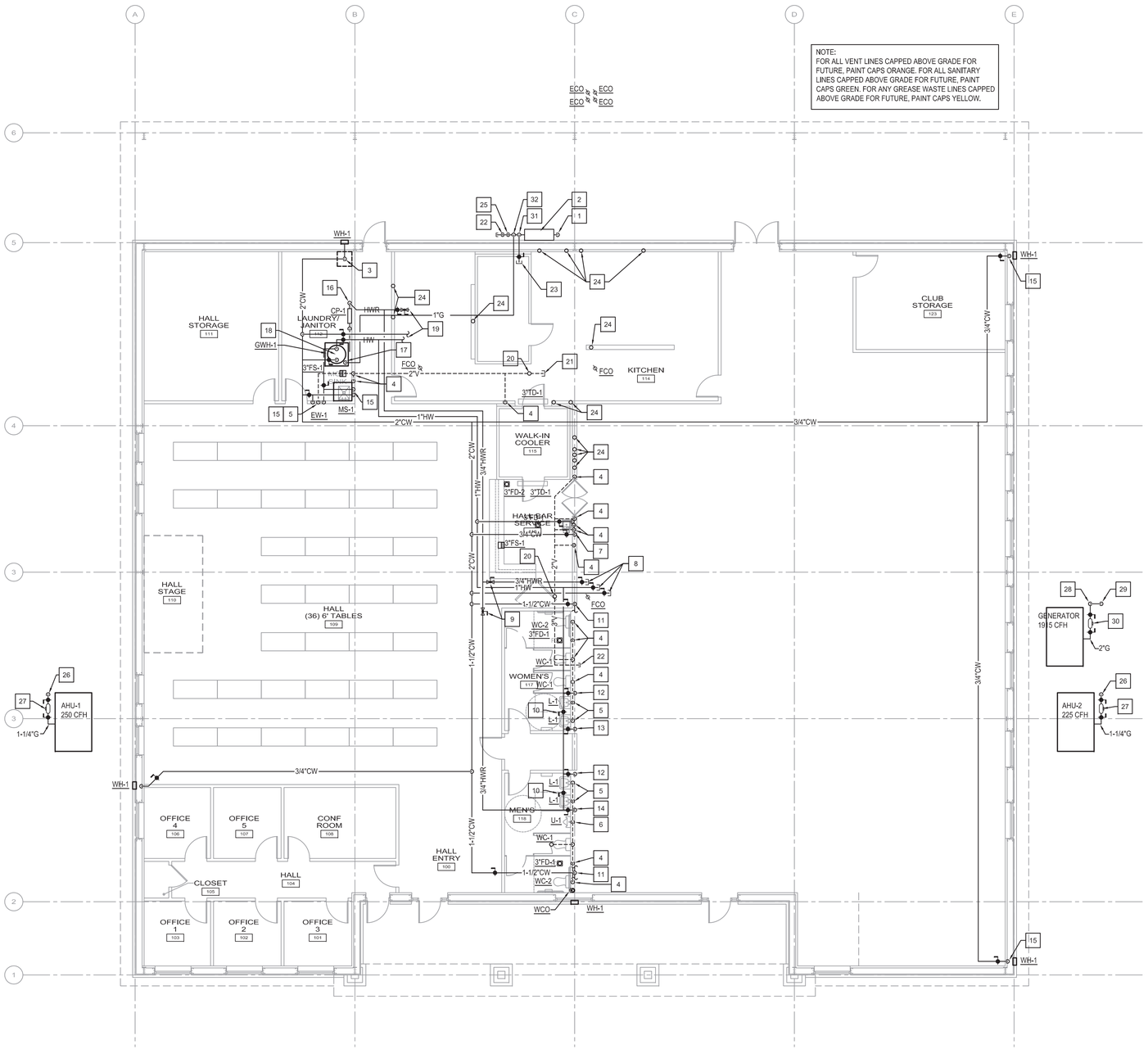
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Houston Tx. 77034
Jerry Farmer CPD
(713) 943-1035

	PERMIT/BID ISSUE	08-15-22

SCALE: AS NOTED
PROJECT NUMBER:
DATE: AUGUST 15, 2022

PLUMBING FLOOR PLAN

SHEET NO.
P201



N

1 PLUMBING FLOOR PLAN

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

PLUMBING KEYED NOTES:

1. GAS FROM BELOW BY CENTERPOINT ENERGY.
2. PROPOSED GAS METER LOCATION. TOTAL LOAD = 3145 CFH (630 CFH FUTURE) PROVIDE 5 PSI DOWNSTREAM OF METER. REFER TO SHEET P3.01 FOR RISER DIAGRAM.
3. 2" DOMESTIC WATER ENTRY FROM BELOW.
4. 2" VENT FROM BELOW.
5. 2" SANITARY DOWN, 2" VENT UP.
6. 3" SANITARY DOWN, 2" VENT UP.
7. 3/4" CW DOWN TO SERVE BAR EQUIPMENT.
8. 3/4" CW, HW AND HWR VALVED AND CAPPED FOR FUTURE BAR.
9. THERMAL BALANCING VALVE, CIRCUIT SOLVER #CSU-3/4" SERIES.
10. NORMALLY CLOSED BYPASS BALL VALVE.
11. 1-1/2" CW DOWN TO SERVE PLUMBING FIXTURES.
12. 3/4" HW DOWN IN CHASE TO SERVE LAVATORIES.
13. 3/4" HW UP FROM CHASE.
14. 3/4" HWR UP FROM CHASE.
15. 3/4" CW AND HW DOWN.
16. 3/4" HWR DOWN TO CIRCULATING PUMP.
17. 1" GAS DOWN TO SERVE GAS WATER HEATER. PROVIDE SHUT OFF IN VERTICAL AT APPROXIMATELY 60" A.F.F.
18. 1-1/2" CW DOWN AND 1-1/2" HW UP FROM WATER HEATER.
19. 1-1/4" CW, HW AND 3/4" HWR VALVED AND CAPPED FOR FUTURE KITCHEN.
20. 4" VENT UP TO 4" VTR.
21. 3" VENT CAPPED FOR FUTURE KITCHEN,
22. 1" GAS DOWN TO BELOW GRADE AT 5 PSI, 250 CFH.
23. 1-1/4" GAS VALVED AND CAPPED FOR FUTURE (630 CFH).
24. 2" VENT FROM BELOW CAPPED AT 12" ABOVE FINISHED FLOOR FOR FUTURE.
25. 1-1/2" GAS DOWN TO BELOW GRADE AT 5 PSI, 2140 CFH.
26. 1" GAS FROM BELOW GRADE.
27. GAS PRESSURE REGULATOR, 5 PSI TO 8 OZ, 250 CFH.
28. 1-1/2" GAS FROM BELOW TO SERVE GENERATOR.
29. 1" GAS DOWN TO BELOW GRADE.
30. GAS PRESSURE REGULATOR, 5 PSI TO 8 OZ, 1915 CFH.
31. 1-1/4" GAS UP FROM METER AND THRU EXTERIOR WALL FOR FUTURE KITCHEN.
32. 1" GAS UP FROM METER AND THRU EXTERIOR WALL TO SERVER GAS WATER HEATER.

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SCALE: AS NOTED

PROJECT NUMBER:

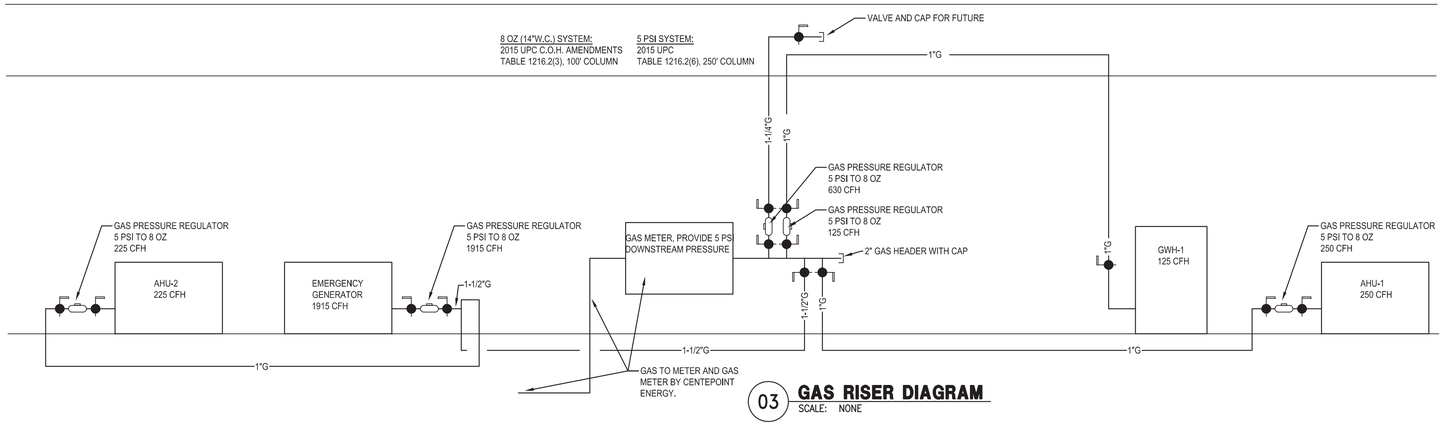
DATE: AUGUST 15, 2022

PLUMBING FLOOR PLAN

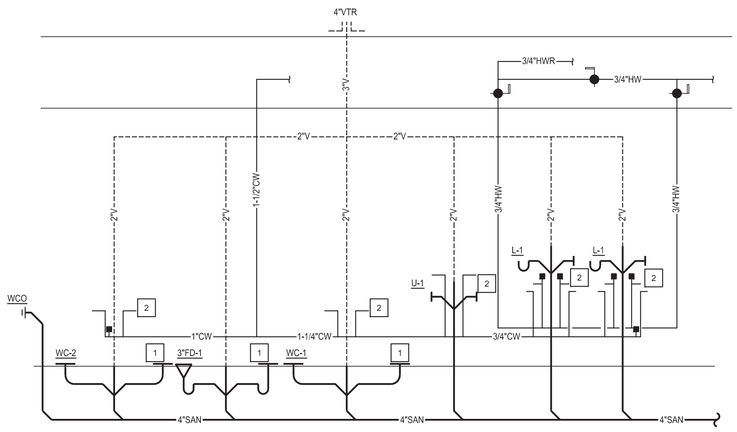
SHEET NO.
P202

PLUMBING KEYED NOTES:

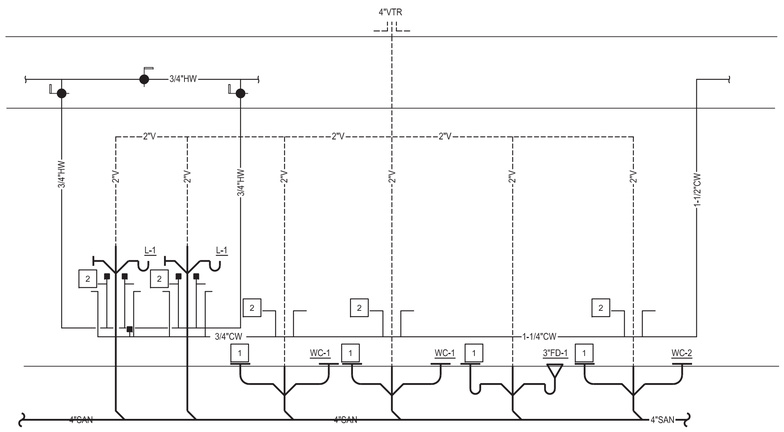
1. CAP FLUSH WITH FLOOR FOR FUTURE.
2. CAP FLUSH WITH WALL FOR FUTURE.



03 GAS RISER DIAGRAM
SCALE: NONE



02 PLUMBING RISER DIAGRAM - MENS 118
SCALE: NONE



01 PLUMBING RISER DIAGRAM - WOMENS 117
SCALE: NONE

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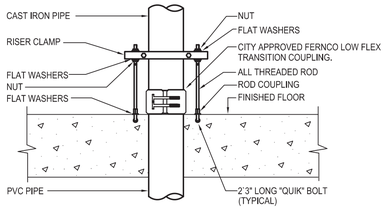
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SCALE: AS NOTED
PROJECT NUMBER:
DATE: AUGUST 15, 2022

PLUMBING SCHEDULES AND DETAILS

SHEET NO.
P301



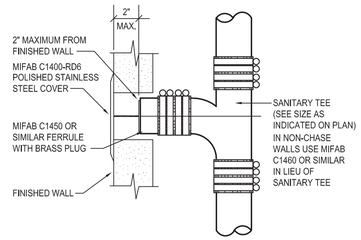
NOTE:

1. MAKE CONNECTION FROM PVC BELOW SLAB TO CAST IRON ABOVE SLAB WITH FERNCO TRANSITION COUPLING.
2. THERE IS TO BE NO EXPOSED PVC ABOVE SLAB.

11 CAST IRON TO PVC TRANSITION

SCALE: NONE

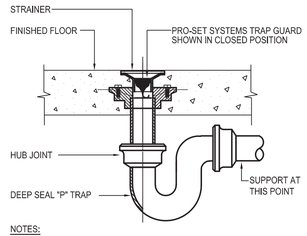
SA26-11/12/08



08 WALL CLEANOUT

SCALE: NONE

SA02-8/13/07



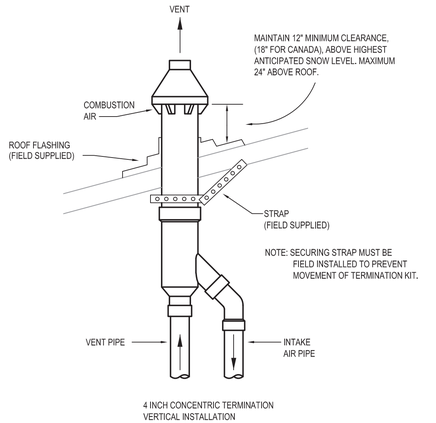
NOTES:

1. TRAP GUARD SHALL BE FACTORY FITTED TO MATCH EACH FLOOR DRAIN (AND FLOOR SINK) BY SIZE, MODEL, AND MANUFACTURER.
2. FLOOR SINK TRAP GUARD INSTALLATION IS SIMILAR.
3. INSTALLATION OF TRAP GUARD TO BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
4. INSERT TRAP GUARD ONLY AFTER FINAL RODDING OF DRAINS. INSTALL TRAP GUARD WITH CLEAR SILICONE CAULK FOR GAS TITE SEAL. FOR DRAIN RODDING AFTER INSTALLATION, INSERT SEWER TAPE THROUGH LIGHTLY GREASED 1-1/2" PVC PIPE TO PROTECT TRAP GUARD.

5 TRAP SEAL PROTECTION

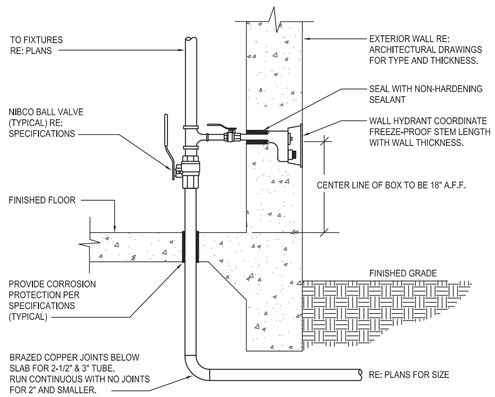
SCALE: NONE

SA30-11/12/08



10 WATER HEATER VERTICAL VENT TERMINATION

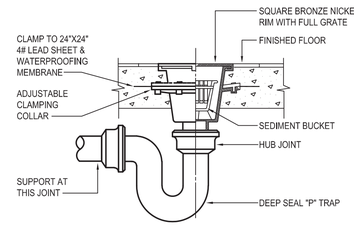
SCALE: NONE



07 DOMESTIC WATER ENTRY

SCALE: NONE

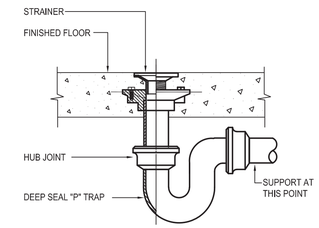
WE04-11/12/08



04 FLOOR SINK

SCALE: NONE

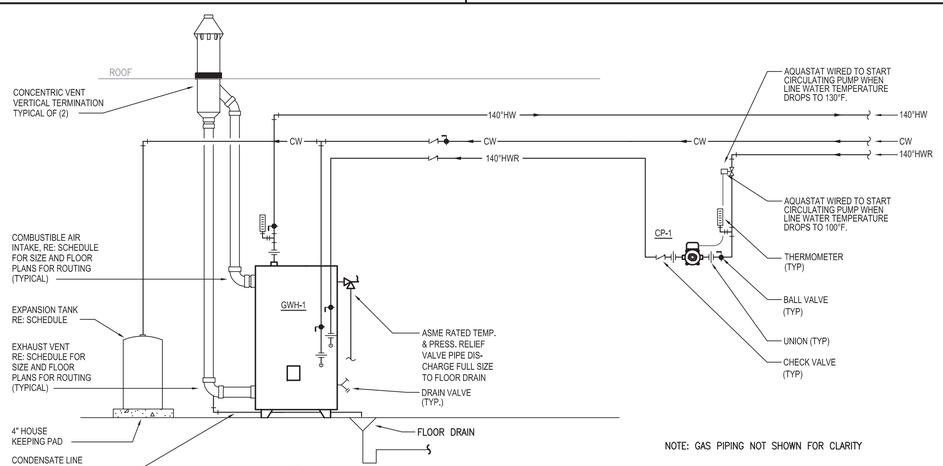
SA07-11/12/08



02 FLOOR DRAIN DETAIL

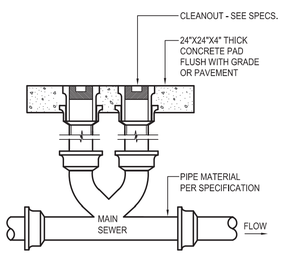
SCALE: NONE

SA06-11/12/08



06 DOMESTIC GAS WATER HEATER PIPING

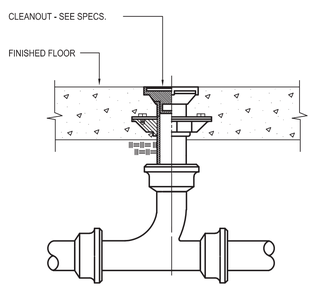
SCALE: NONE



03 TWO-WAY EXTERIOR CLEANOUT

SCALE: NONE

SA04-11/12/08



01 FLOOR CLEANOUT

SCALE: NONE

SA01-11/12/08

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PROFESSIONAL ENGINEER
08-15-2022

AMERICAN LEGION
POST #490

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SCALE: AS NOTED

PROJECT NUMBER:

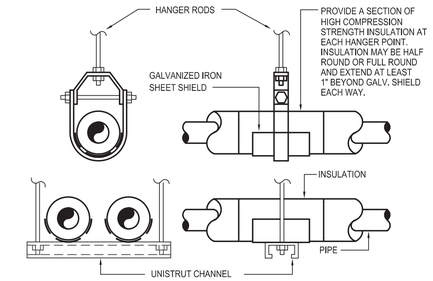
DATE: AUGUST 15, 2022

PLUMBING DETAILS

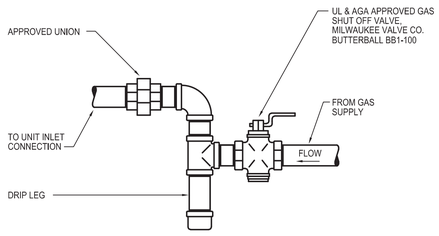
SHEET NO.

P401

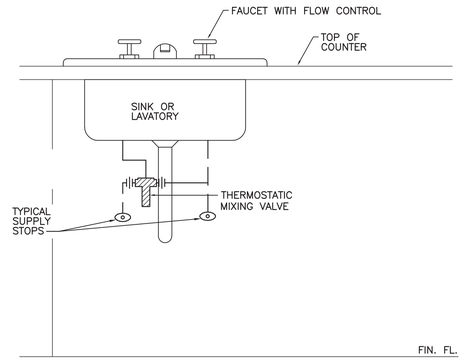
MINIMUM DIMENSIONS OF GALVANIZED SHEETMETAL PROTECTION SHIELDS AT PIPE HANGERS		
NOMINAL SIZE PIPE	SHIELD LENGTH (IN.)	GAUGE THICKNESS
1/2" & 3/4"	12	18
1" - 2-1/2"	12	18
3" - 4"	16	16
6"	18	16



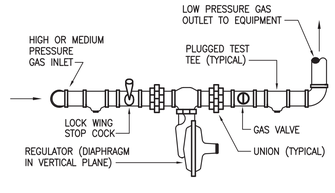
5 **HANGER FOR INSULATED PIPING**
SCALE: NONE
PI01-04/24/06



4 **GAS CONNECTION**
SCALE: NONE
GA07-11/12/08

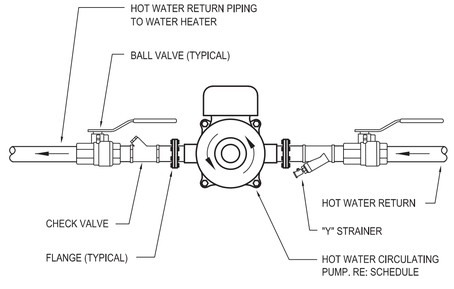


2 **THERMOSTATIC MIXING VALVE AT SINK**
SCALE: NONE



NOTE: REFERENCE DRAWINGS FOR PIPE SIZES.

3 **GAS PRESSURE REGULATOR INSTALLATION**
SCALE: NONE
GA02-11/12/08



1 **HOT WATER CIRCULATING PUMP**
SCALE: NONE
HW01-11/12/08

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PLUMBING DETAILS

SHEET NO.
P402

PLUMBING PIPING LEGEND

SYMBOLS	DESCRIPTION
SAN	SANITARY OR WASTE PIPING ABOVE GRADE (SAN)
SAN	SANITARY OR WASTE PIPING BELOW GRADE (SAN)
GW	GREASE WASTE PIPING (GW)
GW	GREASE WASTE PIPING BELOW GRADE (GW)
	VENT PIPING (V)
CW	COLD WATER PIPING (CW)
HW	HOT WATER PIPING (HW)
HWR	HOT WATER RETURN PIPING (HWR)
GAS	NATURAL GAS PIPING (G)
GV	GAS VENT PIPING (GV)
	FLOW DIRECTIONAL ARROW
	SHUT-OFF VALVE
	THERMAL BALANCING VALVE
	BALL VALVE (BV)
	BUTTERFLY VALVE
	LUBRICATED PACKED PLUG STOP STOP COCK (PC)
	HORIZONTAL SWING CHECK
	UNION
	PIPING DOWN
	RISE OR DROP PIPING
	PIPING UP -OR- PIPING UP & DOWN
	CAP ON END OF PIPE
	CLEANOUT (WALL OR CEILING) (CO)
	FLOOR CLEANOUT (FCO)
	EXTERIOR CLEANOUT WITH 18"x18"x4" CONCRETE PAD (ECO)
	TWO-WAY CLEANOUT (PROVIDE 18"x24"x4" CONCRETE PAD OUTSIDE)
	BRANCH CONNECTION OUT OF TOP
	BRANCH CONNECTION OUT OF BOTTOM
	BRANCH CONNECTION OUT OF SIDE
	WYE & 1/8TH BEND BRANCH CONNECTION
	WYE BRANCH CONNECTION
	HOSE BIBB
	PRESSURE GAUGE WITH COCK
	THERMOMETER
	GAS METER
	WALL HYDRANT
	VALVE IN RISE
	ASME TEMPERATURE & PRESSURE RELIEF VALVE
	VACUUM RELIEF VALVE
FS	FLOOR SINK (FS)
FD	FLOOR DRAIN (FD)
FD	FLOOR DRAIN WITH P-TRAP (FD)
A	SHOCK ABSORBER
(E)	EXISTING
(N)	NEW
VTR	VENT THRU ROOF
B.F.F.	BELOW FINISHED FLOOR
A.F.F.	ABOVE FINISHED FLOOR
	NEW CONNECTION
1	DELTA CHANGE SYMBOL
P 1 4" VTR	RISER FLAG

PLUMBING GENERAL NOTES

1. WITHIN THE EXISTING BUILDING, EXISTING WATER, WASTE AND VENT SERVICES ARE TO BE MODIFIED AS REQUIRED AND REUSED FOR THE INSTALLATION OF NEW AND/OR RELOCATED PLUMBING FIXTURES. REFER TO PLUMBING FLOOR PLANS FOR POINTS OF CONNECTION.
2. WITHIN THE EXISTING BUILDING, SAWCUT AND REMOVE EXISTING FLOOR SLAB AS REQUIRED TO PROVIDE NEW AND/OR RELOCATED PLUMBING FIXTURES, CLEANOUTS, AND UNDERSLAB WASTE AND VENT PIPING. PATCH AND REFINISH FLOOR TO MATCH EXISTING.
3. IN AREAS WHERE THE FLOOR SLAB IS REMOVED, CONTRACTOR SHALL ALSO REMOVE UNDERSLAB WASTE AND VENT PIPING WHICH SERVES FIXTURES DESIGNATED FOR REMOVAL. PRIOR TO ANY REMOVAL, FIELD VERIFY THAT LINES TO BE REMOVED DO NOT SERVE ANY EXISTING FIXTURES TO REMAIN OR NEW FIXTURES TO BE INSTALLED.
4. IN AREAS WHERE THE FLOOR SLAB IS NOT REMOVED, CONTRACTOR SHALL ABANDON IN PLACE ANY UNDERSLAB WASTE AND VENT PIPING NO LONGER NEEDED, UNLESS THE PIPING MUST BE REMOVED TO ACCOMMODATE NEW CONSTRUCTION. IF NEW WORK DOES NOT NECESSITATE THEIR REMOVAL, CUT AND PLUG SUCH LINES BELOW SLAB, AND PATCH FLOOR TO MATCH EXISTING.
5. FIELD VERIFY EXACT LOCATION, SIZE, DEPTH, DIRECTION OF FLOW, CAPACITY, PIPE MATERIAL AND CONDITION OF EXISTING WASTE PIPING PRIOR TO BEGINNING CONSTRUCTION. ENSURE THAT PROPER CONNECTIONS TO AND EXTENSION OF SUCH UTILITIES CAN BE MADE.
6. WASTE LINES TO BE RE-USED OR RECONNECTED TO SHALL BE THOROUGHLY RODDED OUT AND FLUSHED TO ENSURE THEY ARE FREE FROM BLOCKAGES.
7. CONTRACTOR SHALL COORDINATE ROUTING OF PIPING BELOW SLAB WITH COLUMN FOOTINGS, GRADE BEAMS, UNDERGROUND PLUMBING AND ELECTRICAL UTILITIES, AND OTHER SUB-SURFACE BUILDING ELEMENTS.
8. CONTRACTOR SHALL COORDINATE ROUTING OF PIPING IN CEILING SPACES WITH MECHANICAL AND ELECTRICAL EQUIPMENT, DUCTWORK AND CONDUIT. SHOULD A CONFLICT OCCUR THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO INSTALLING AN ALTERNATE PIPING PLAN.
9. CONTRACTOR TO COORDINATE ALL REMODEL WORK WITH THE WORK OF OTHER TRADES TO AVOID CONFLICTS AND TO MINIMIZE INTERRUPTION OF SERVICES.
10. COORDINATE ALL FIXTURE AND EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS WITH LATEST ARCHITECTURAL DRAWINGS AND SPECIFICATIONS PRIOR TO ANY ROUGH-INS.
11. DO NOT ROUGH-IN FROM THESE DRAWINGS. REFER TO LATEST ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS.
12. CONTRACTOR TO FIELD VERIFY AS NECESSARY THE EXACT ROUTING AND SIZES OF ALL PIPING.
13. ALL WORK, METHODS AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE CITY BUILDING CODE, INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION.
14. THE PROPER INSTALLATION OF NEW FIXTURES AND THE PROPER CONTINUED OPERATION OF EXISTING FIXTURES TO REMAIN SHALL DETERMINE THE EXTENT AND NATURE OF PLUMBING REMODEL WORK.
15. EACH VENT SHALL TERMINATE VERTICALLY NOT LESS THAN 6" ABOVE ROOF, MAINTAIN MINIMUM 10'-0" DISTANCE BETWEEN VENT TERMINALS THROUGH ROOF AND ALL FRESH AIR INTAKES, AND A MINIMUM 5'-0" FROM ANY EXTERIOR WALL.
16. PRIOR TO BEGINNING CONSTRUCTION, COORDINATE BUILDING BACKFLOW PREVENTION REQUIREMENTS WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND PROVIDE AS DIRECTED.

GENERAL NOTES

1. ALL WORK, METHODS AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE CITY BUILDING CODE AND INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION.
2. THIS CONTRACTOR SHALL COORDINATE ROUTING OF PIPING IN CEILING SPACES WITH MECHANICAL AND ELECTRICAL EQUIPMENT, DUCTWORK AND CONDUIT.

GAS WATER HEATER SCHEDULE

ITEM NO.	BTU/HR. INPUT	GALS. PER HR. RECOVERY RATE 100°F RISE	STORAGE CAPACITY	ELECTRICAL REQUIRED	STORED WATER TEMP	MANUFACTURER COMMENT
GWH-1	125,000	145 GALLONS	60 GAL	120V/1Ø	140°	BRADFORD WHITE eF SERIES #EF- 60T-125E-3N

NOTES:
1. THE WATER HEATERS SHALL BE EQUIPPED WITH ASME RATED TANKS, ASME RATED TEMPERATURE PRESSURE AND RELIEF VALVES, IGNITION CONTROL DEVICES WITH INTEGRAL DIAGNOSTICS, LED FAULT DISPLAY AND DIGITAL DISPLAY OF TEMPERATURE SETTINGS.
2. THE WATER HEATERS SHALL BE LOW NOX AND THE SYSTEMS SHALL BE PIPED WITH AN EXPANSION TANK. RE: SCHEDULE THIS SHEET (ET-1).
3. THE WATER HEATERS SHALL BE SUITABLE FOR SEALED COMBUSTION DIRECT-VENT USING 3" U.L. 1738 POLYPROPLENE PIPE FOR INTAKE AND EXHAUST. PROVIDE A CONCENTRIC MANIFOLD VENT KIT. INSTALL PER MANUFACTURERS INSTRUCTIONS.

DOMESTIC HW EXPANSION TANK SCHED.

ITEM NO.	DESCRIPTION	MAX. WORK PRESSURE	TANK VOL. GALLONS	MAX. ACCEPT. GALLONS	DIAMETER INCHES	MANUFACTURER AND MODEL
ET-1	HOT WATER EXPANSION TANK	150 PSI	6.4	3.2	12"	AMTROL THERM-X-TROL ST-12C-DD

NOTES: 1. ALL EXPANSION TANKS SHALL BE ASME RATED.
2. ET-1 SHALL BE PIPED IN CONJUNCTION WITH GWH-1.

CIRCULATING PUMP SCHEDULE

TEM NO.	DESCRIPTION	TYPE	GPM	HEAD FEET	H.P MIN.	VOLT/ PHASE	MAX RPM	MANUFACTURER AND MODEL
CP-1	CIRCULATION PUMP 140° HOT WATER	IN-LINE STAINLESS STEEL	3	12	1/12	120/1	2400	GRUNDFOS UPS 15-55 SFC

SHOCK ARRESTOR SCHEDULE

P.D.I. SYMBOLS:	FIXTURE UNITS:	CHAMBER LENGTH	THREADED CONNECTION:
A	1-11	9-5/8"	1/2"
B	12-32	11-3/4"	3/4"
C	33-60	14-11/16"	1"
D	61-113	12-3/8"	1"
E	114-154	15-3/8"	1"
F	155-330	17-3/8"	1"

GAS EQUIPMENT SCHEDULE

EQUIPMENT NUMBER	DESCRIPTION	BTU PER HOUR LOAD	TOTAL BTU PER HOUR	TOTAL CFH
GWH-1	GAS WATER HEATER	125,000 BTUH	125,000 BTUH	125 CFH
AHU-1	AIR HANDLING UNIT	250,000 BTUH	250,000 BTUH	250 CFH
AHU-2	AIR HANDLING UNIT	225,000 BTUH	225,000 BTUH	225 CFH
GENERATOR	EMERGENCY GENERATOR	1,915,000 BTUH	1,915,000 BTUH	1915 CFH
FUTURE KIT.	FUTURE KITCHEN	630,000 BTUH	630,000 BTUH	630 CFH
TOTALS:			3,145,000 BTU	3145 CFH

PLUMBING MATERIAL LIST

ABOVE GRADE, INSIDE BUILDING

SANITARY WASTE AND VENT PIPING SHALL BE

SCHEDULE 40 DWV POLYVINYL CHLORIDE PIPE AND FITTINGS CONFORMING TO ASTM-2665 WITH SOLVENT WELDED JOINTS. DO NOT USE IN AIR SUPPLY OR RETURN PLENUMS, AND OR WHERE FIRE RATED WALLS, PARTITIONS, OR FLOORS ARE PENETRATED.

DOMESTIC WATER PIPING SHALL BE

PEX A TYPE PIPING AND FITTINGS.

BELOW GRADE, INSIDE BUILDING

SANITARY WASTE AND VENT PIPING SHALL BE

SCHEDULE 40 DWV POLYVINYL CHLORIDE PIPE AND FITTINGS CONFORMING TO ASTM-2665 WITH SOLVENT WELDED JOINTS. DO NOT USE IN AIR SUPPLY OR RETURN PLENUMS, AND OR WHERE FIRE RATED WALLS, PARTITIONS, OR FLOORS ARE PENETRATED.

DOMESTIC WATER PIPING SHALL BE

ANNEALED (SOFT) COPPER WATER TUBE, TYPE "K", ASTM B88, WITH NO JOINTS OR FITTINGS BELOW SLAB.

GAS PIPING SHALL BE

PIPE 2" AND SMALLER, PROVIDE SCHEDULE 40 ASTM A 53 BLACK STEEL WITH FACTORY FABRICATED SOCKET WELD FITTINGS.

PIPE LARGER THAN 2", USE SCHEDULE 40 ASTM A 53 BLACK STEEL PIPE WITH LONG RADIUS WELD FITTINGS.

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SCALE: AS NOTED

PROJECT NUMBER:

DATE: AUGUST 15, 2022

PLUMBING SCHEDULES

SHEET NO.
P501

PLUMBING FIXTURE SCHEDULE

TYPE:	WC-1 (NON - T.A.S. COMPLIANT)
DESCRIPTION:	WATER CLOSET, FLOOR MOUNTED, 16-3/4" HIGH WHITE VITREOUS CHINA, 1.28 GALLON PER FLUSH SIPHON JET ACTION, ELONGATED CLOSET BOWL WITH 1-1/2" TOP SPUD AND BOLT COVERS. ZURN ONE SYSTEM #Z.WC4.AS
SEAT:	ELONGATED OPEN FRONT WHITE PLASTIC SEAT WITH STAINLESS STEEL CHECK HINGES. ZURN #5955SS-EL.
FLUSH VALVE:	1.28 GALLON FLUSH CYCLE. SENSOR FLUSH VALVE, DIAPHRAGM TYPE, CHROME PLATED BRASS, VACUUM BREAKER, SPUD COUPLING FOR 1-1/2" TOP SPUD. ZURN #ZER600AV-HET-CPM
ROUGH-IN:	4" WASTE, 2" VENT, 1" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

TYPE:	WC-2 (T.A.S. COMPLIANT)
DESCRIPTION:	WATER CLOSET, FLOOR MOUNTED, 16-3/4" HIGH WHITE VITREOUS CHINA, 1.28 GALLON PER FLUSH SIPHON JET ACTION, ELONGATED CLOSET BOWL WITH 1-1/2" TOP SPUD AND BOLT COVERS. ZURN ONE SYSTEM #Z.WC4.AS
SEAT:	ELONGATED OPEN FRONT WHITE PLASTIC SEAT WITH STAINLESS STEEL CHECK HINGES, ZURN #5955SS-EL.
FLUSH VALVE:	1.28 GALLON FLUSH CYCLE, SENSOR FLUSH VALVE, DIAPHRAGM TYPE, CHROME PLATED BRASS, VACUUM BREAKER, SPUD COUPLING FOR 1-1/2" TOP SPUD. ZURN #ZER600AV-HET-CPM
ROUGH-IN:	4" WASTE, 2" VENT, 1" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

TYPE:	U-1(T.A.S. COMPLIANT)
DESCRIPTION:	URINAL, WALL HUNG, WHITE VITREOUS CHINA, 0.125 GALLON PER FLUSH, WASHOUT FLUSH ACTION, INTEGRAL TRAP, REMOVABLE DOMED STRAINER AND TOP SPUD. ZURN ONE SYSTEM #Z.UR1.S
FLUSH VALVE:	0.125 GALLON FLUSH CYCLE. SENESOR FLUSH VALVE, DIAPHRAGM TYPE, CHROME PLATED BRASS, VACUUM BREAKER, SPUD COUPLING FOR 3/4" TOP SPUD. ZURN #ZER6003AV-ULF-CPM
CARRIER:	RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 4" SQUARE BASE ANCHORED TO CONCRETE WITH (4) 1/2" BOLTS, ADJUSTABLE SLEEVE, UPPER AND LOWER BEARING PLATES WITH THREADED STUDS. WADE #401-AM1-M36.
ROUGH-IN:	2" WASTE, 2" VENT, 3/4" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

TYPE:	L-1 (T.A.S. COMPLIANT) - TEMPERED WATER
DESCRIPTION:	LAVATORY, WALL HUNG VITREOUS CHINA WITH FRONT OVERFLOW, 20" X 18", CONCEALED ARM SUPPORTS AND 4" CENTERSET FAUCET HOLES. ZURN ONE SYSTEM #Z.L7.S
FAUCET:	CHROME PLATED BRASS DECK MOUNTED LAVATORY SENSOR FAUCET, VANDAL RESISTANT 0.5 GPM NON-AERATED FLOW OUTLET, ASSE 1070 POINT OF USE THERMOSTATIC MIXING VALVE. ZURN #Z6955-XL-S-F-TMV-1 CHICAGO FAUCET #333-E2805-336CAB AND COVER PLATE #333-004KJKCP
STRAINER:	1-1/4" 17 GAUGE CHROME PLATED BRASS GRID STRAINER WITH TAILPIECE. ZURN #Z8743-PC
P-TRAP"	1-1/4" 17 GAUGE CHROME PLATED HEAVY CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. ZURN #Z8700-8B-PC
SUPPLIES:	1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. ZURN #Z8804-XL-LR-L-K-PC
CARRIER:	RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 3" X 4-1/2" BASE ANCHORED TO CONCRETE WITH (4) 1/2" BOLTS, ADJUSTABLE SLEEVE, THREADED CONCEALED ARMS, ALIGNMENT BAR, LOCKING DEVICE, AND LEVELING SCREWS. WADE 520-M36.
ROUGH-IN:	2" WASTE, 2" VENT, 1/2" COLD WATER ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

TYPE:	MS-1
DESCRIPTION:	MOP SINK BASIN, 24" X 24" X 12" HIGH, SQUARE TYPE, DURASTONE STRUCTURAL FIBERGLASS, INTEGRAL MOLDED-IN DRAIN, THRESHOLD CAPS, AND STAINLESS STEEL WALL GUARDS. MUSTEE #63M
FAUCET:	CHROME PLATED BRASS WALL MOUNTED FITTING WITH CHECK IN STOPS, ADJUSTABLE SUPPLY ARMS, VACUUM BREAKER SPOUT WITH PAIL HOOK AND WALL BRACE. 2-1/2" INDEXED LEVER HANDLES ON 8" CENTERS. QUARTER TURN CARTRIDGES, 3/4" MALE HOSE THREAD OUTLET. MUSTEE #63.600A
ROUGH-IN:	3" WASTE, 2" VENT, 1/2" HOT AND COLD WATER.

TYPE:	EDF-1 (T.A.S. COMPLIANT)
DESCRIPTION:	WALL HUNG, BARRIER FREE, BI-LEVEL ELECTRIC DRINKING FOUNTAIN WITH, FLEXIGUARD SAFETY BUBBLER GUARD AND PUSH BAR ACTIVATION. SHALL DELIVER 8 GPH OF 50 DEGREE WATER AT 90 DEGREE AMBIENT AND 80 DEGREE INLET WATER. ELKAY #EZSTL8LC.
P-TRAP:	1-1/4" CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON. MCGUIRE #8872C.
SUPPLIES:	1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE #2165LK.
CARRIER:	RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 3" X 4-1/2" BASE ANCHORED TO CONCRETE SLAB WITH (4) 1/2" BOLTS. ADJUSTABLE SLEEVE FOR CONNECTION TO HANGER PLATE PROVIDED BY FIXTURE MANUFACTURER. WADE 400.
ROUGH-IN:	2" WASTE, 2" VENT, 1/2" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

TYPE:	HB-1 - COLD WATER
DESCRIPTION:	HOSE BIBB, EXPOSED TYPE, ANIT-SIPHON, INTEGRAL BACKFLOW PREVENTION, 3/4" MALE HOSE THREAD, CHROME PLATED, POLYCARBONATE HANDLE. WOODFORD #MODEL 24
ROUGH-IN:	3/4" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

TYPE:	FD-1
SERVICE:	TOILET ROOMS AND GENERAL USE.
DESCRIPTION:	FLOOR DRAIN, CAST IRON BODY, ADJUSTABLE 6" DIAMETER NICKEL BRONZE GRATE (HEEL PROOF), TRAP PRIMER CONNECTION, SEEPAGE OPENINGS, CLAMPING COLLAR. ZURN #ZN415-6B-P-NL
ROUGH-IN:	REFER TO FLOOR PLAN FOR SIZES. COORDINATE FINAL LOCATION AND INSTALLATION WITH ARCHITECTURAL DRAWINGS AND FLOOR CONSTRUCTION.

TYPE:	FD-2
SERVICE:	COOLER CONDENSATE
DESCRIPTION:	FUNNEL FLOOR DRAIN, PVC BODY SET ABOVE FINSIHED FLOOR. PLASTIC TRENDS #P658.D01
ROUGH-IN:	REFER TO FLOOR PLAN FOR SIZES. COORDINATE FINAL LOCATION AND INSTALLATION WITH ARCHITECTURAL DRAWINGS AND FLOOR CONSTRUCTION.

TYPE:	FS-1
SERVICE:	MECHANICAL ROOMS, INDIRECT WASTE
DESCRIPTION:	ROUND PVC FLOOR SINK, IMPACT MODIFED PVC BODY WITH 9" ROUND HALF GRATE WITH 4-1/2" DEEP SUMP, BOTTOM OUTLET, ALUMINUM DOME STRAINER, ANCHOR FLANGE, CLAMPING COLLAR, AND HALF TOP GRATE. SIOUX CHIEF #860-W3P-PVC-2-863U
ROUGH-IN:	REFER TO FLOOR PLAN FOR SIZES. COORDINATE FINAL LOCATION AND INSTALLATION WITH EQUIPMENT PLACEMENT AND FLOOR CONSTRUCTION.

TYPE:	ECO
DESCRIPTION:	EXTERIOR CLEANOUT TO GRADE, CAST IRON BODY WITH ADJUSTABLE THREADED HOUSING, FLANGED FERRULE, INTEGRAL CLAMPING COLLAR, ABS PLUG AND DUCTILE IRON SCORIATED ROUND COVER. IF LOCATED IN ASPHALT OR DIRT PROVIDE 18"X18"X12" CONCRETE PAD. WADE 6000-12-81.

TYPE:	FCO
DESCRIPTION:	FLOOR CLEANOUT, CAST IRON BODY AND ADJUSTABLE THREADED HOUSING FLANGED FERRULE, INTEGRAL CLAMPING COLLAR, ABS PLUG AND SCORIATED STAINLESS STEEL COVER. WADE 6000-85-81. FOR CARPETED FLOORS PROVIDE WADE 6000-85-CF.

TYPE:	WCO
DESCRIPTION:	WALL CLEANOUT. CAST IRON CLEANOUT FERRULE WITH COUNTERSUNK ABS PLUG AND ROUND STAINLESS COVER PLATE WITH CENTER SECURING SCREW. WADE 8550 WITH 6304-85. PROVIDE WADE 8560 CAST IRON TEE IN LIEU OF FERRULE AS REQUIRED FOR FOR WALL CONSTRUCTION.

TYPE:	WH-1 - COLD WATER
DESCRIPTION:	FREEZE PROOF WALL HYDRANT, CONCEALED, BRONZE BODY, ANIT-SIPHON, INTEGRAL BACKFLOW PREVENTION, 3/4" MALE HOSE THREAD, WALL CLAMP, STAINLESS STEEL BOX AND STAINLESS STEEL HINGED LOCKING COVER. ZURN #Z1320XL
ROUGH-IN:	3/4" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

TYPE:	EW-1 - EMERGENCY EYE WASH
DESCRIPTION:	WALL MOUNTED WITH PLASTIC BOWL, SPRAY HEADS WITH FLIP TOP DUST COVERS, INTERNAL FLOW CONTROL, FILTER, TAIPIECE AND P-TRAP WASTE CONNECTIONS. GUARDIAN #G1750P-T
MIXING VALVE:	EMERGENCY TYPE THERMOSTATIC MIXING VALVE FOR EYEWASHES. GUARDIAN #G6020
ROUGH-IN:	3/4" COLD AND HOT WATER, 2" WASTE AND 2" VENT.. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.

GENERAL NOTES

ALL LAVATORIES AND SINKS SHALL BE SUPPLIED WITH HOT AND COLD WATER (UNLESS NOTED TO BE COLD WATER ONLY) TO FAUCETS AS INDICATED ON PLANS AND FIXTURE SCHEDULE. PROVIDE CHROME PLATED BRASS SUPPLY STOPS WITH LOOSE KEYS AND WALL ESCUTCHEONS. PROVIDE CHROME PLATED FLEXIBLE RISERS OF SIZE REQUIRED TO PROPERLY CONNECT FIXTURES. PROVIDE 17 GAUGE CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON (UNLESS NOTED TO BE AN ACID WASTE FIXTURE). REFER TO FIXTURE SCHEDULE FOR MINIMUM SIZES OF PLUMBING FIXTURE ROUGH-INS.

INSULATION KITS AT ALL LAVATORIES AND SINKS REQUIRED TO BE T.A.S. ACCESSIBLE (MCGUIRE OR TRUEBRO). ALL SUCH FIXTURES AND FINAL INSTALLATIONS SHALL COMPLY WITH THE STATE ACCESSIBILITY STANDARDS REQUIREMENTS.

INSERT TRAP GUARDS AFTER FINAL RODDING OF DRAINS. INSTALL TRAP GUARD WITH CLEAR SILICONE CAULK FOR GAS-TIGHT SEAL. FOR DRAIN RODDING AFTER INSTALLATION. INSERT SEWER TAPE THROUGH LIGHTLY GREASED 1-1/2" PVC PIPE TO PROTECT TRAP GUARD.

DISREGARD FIXTURES LISTED THAT ARE NOT ON THIS JOB.

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	PERMIT/BID ISSUE	08-15-22

SCALE: AS NOTED

PROJECT NUMBER:

DATE: AUGUST 15, 2022

PLUMBING SCHEDULES

SHEET NO.

P502