

Midland County Facilities Warehouse

804 N. Fort Worth St.
Midland, TX

Parkhill

1700 W. Wall St., Suite 100
Midland, TX 79701
432.697.1447



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04/24/2023

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Midland County



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Midland County
804 N. Fort Worth St.
Midland, TX

PROJECT NO.

40263.22

04/24/2023 PERMIT SET

#	DATE	DESCRIPTION

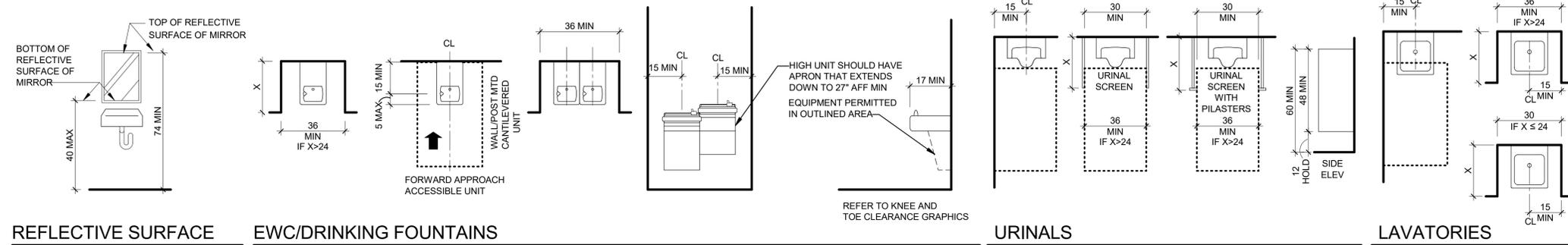
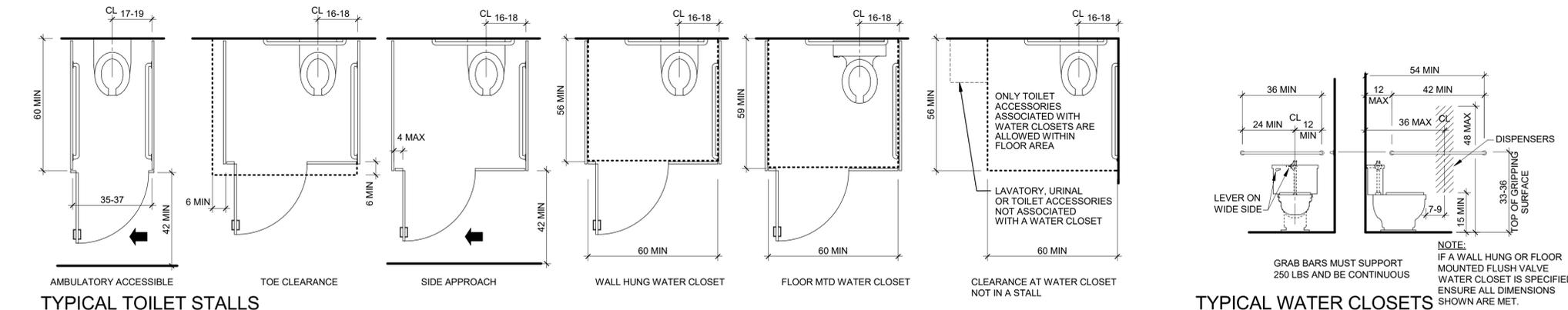
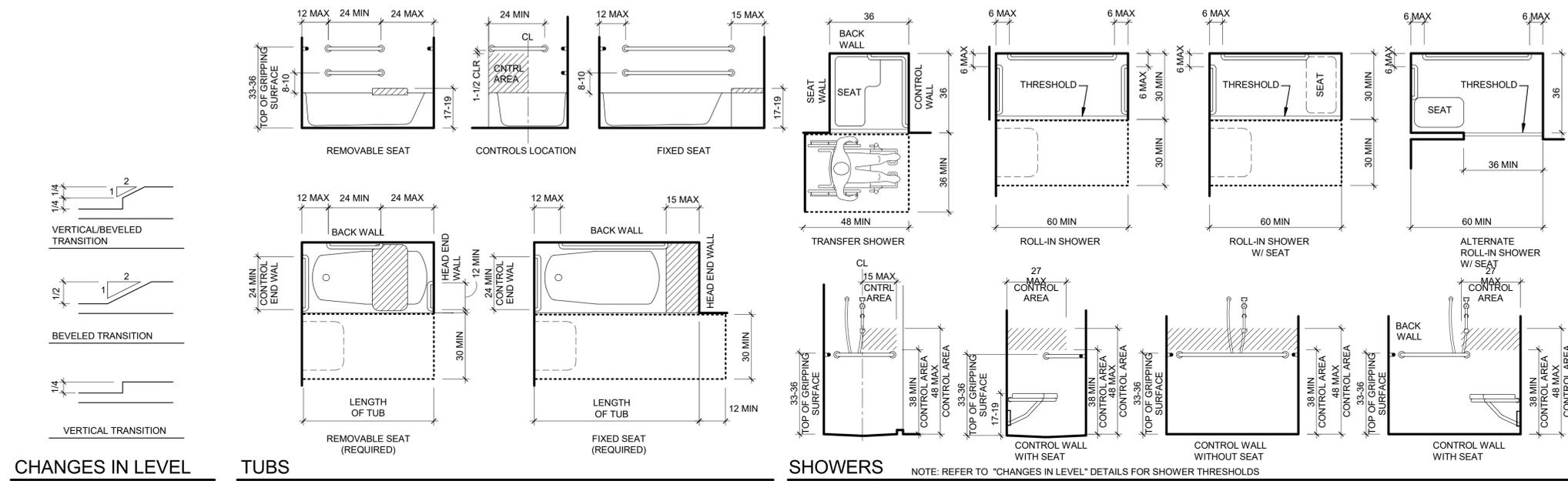
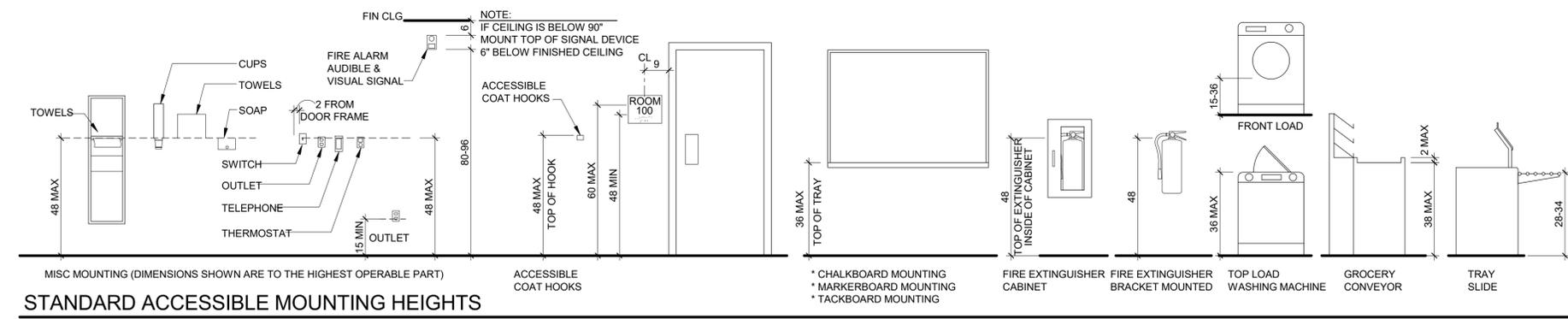
Cover Sheet

G-001



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GENERAL NOTES

- ACCESSIBILITY GUIDELINE SHEETS ARE BASED ON THE 2012 TEXAS ACCESSIBILITY STANDARDS (TAS).
- ACCESSIBILITY GUIDELINE SHEETS ARE FOR INFORMATIONAL PURPOSES ONLY, AND INTENDED TO SERVE AS A GUIDE FOR CONSTRUCTION PROFESSIONALS AND OWNERS.
- SOME OF THE INFORMATION AND PICTOGRAPHS SHOWN MAY NOT BE APPLICABLE TO THIS PROJECT.
- REFER TO PLUMBING SHEETS FOR PLUMBING FIXTURE MOUNTING HEIGHTS.
- GRAPHICS SHOWN ARE FOR ADULTS.

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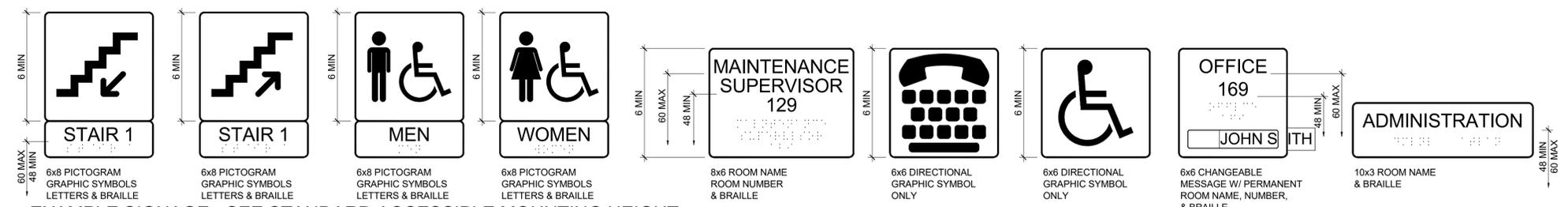
Accessibility Standards
G-021

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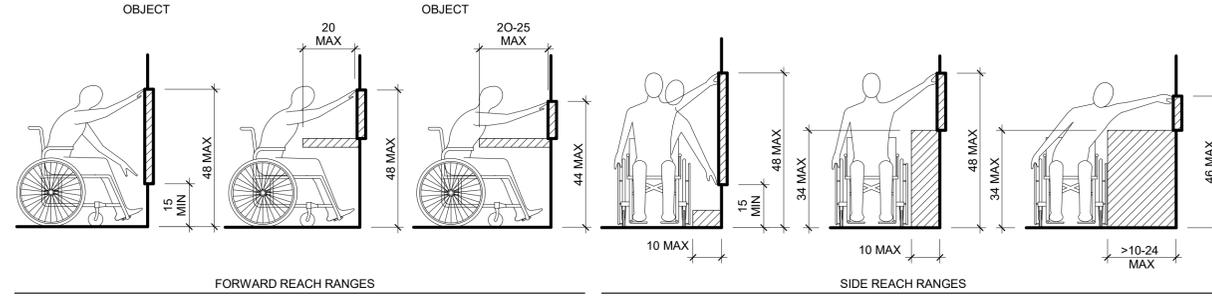
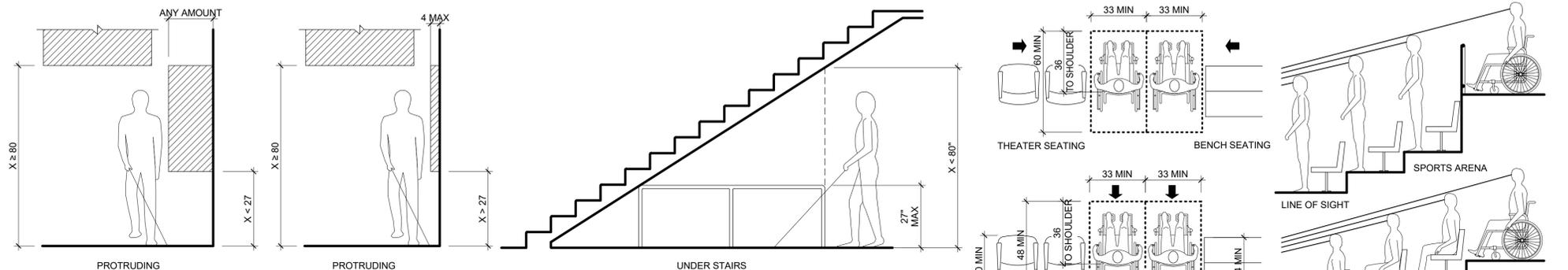


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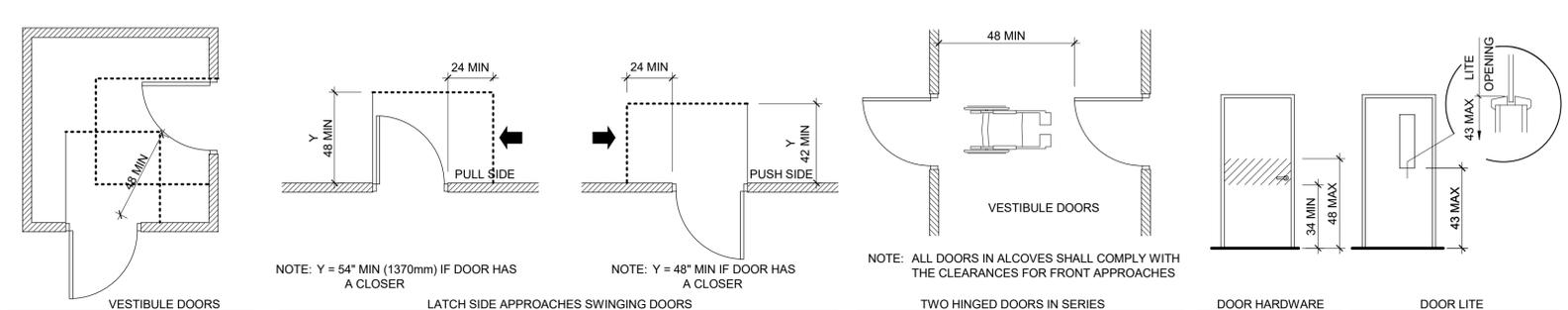
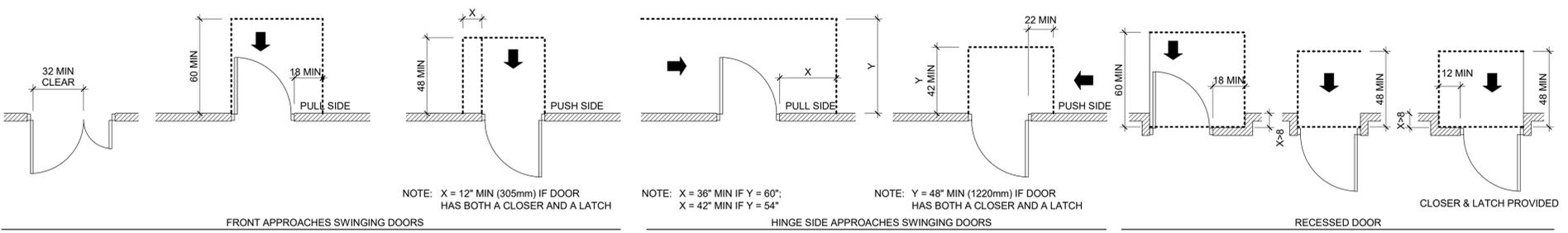
EXAMPLE SIGNAGE - SEE STANDARD ACCESSIBLE MOUNTING HEIGHT
REFER TO SIGNAGE PACKAGE OR DETAILS FOR ACTUAL SIGNAGE SPECIFIED



PROTRUDING OBJECT PROTECTION/REACH RANGES

ASSEMBLY SEATING

CHILDREN'S MOUNTING HEIGHTS & REACH RANGES	AGES: 3 AND 4	AGES: 5 THROUGH 8	AGES: 9 THROUGH 12
REACH RANGES			
HIGH	36	40	44
LOW	20	18	16
RAMP AND STAIRS			
TOP OF HANDRAIL GRIPPING SURFACE	28 MAX	28 MAX	28 MAX
WATER CLOSETS			
WATER CLOSET CENTERLINE	12	12-15	15-18
GRAB BARS	18-20	20-25	25-27
DISPENSER HEIGHT	14	14-17	17-19
FIXED OR BUILT-IN SEATING AND TABLES, READING AND STUDY AREAS, AND WORK STATIONS	AGES: 5 & YOUNGER	AGES: 6-12	
HEIGHT OF TABLES OR COUNTERS	PARALLEL APPROACH ALLOWED	26-30 MAX	
KNEE CLEARANCE		24 MIN	



TYPICAL DOOR CLEARANCES

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Accessibility Standards

G-022



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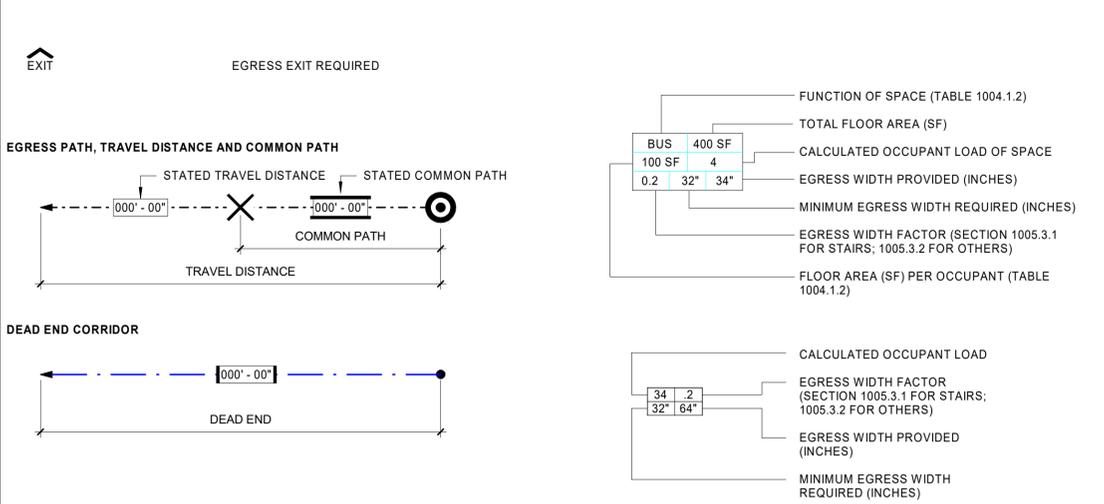
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Life Safety
Information

G-050

LEGEND



EGRESS

TOTAL OCCUPANT LOAD FOR THE BUILDING	32
TOTAL OCCUPANT LOAD EGRESS WILL ACCOMMODATE	32
REQUIRED CAPACITY BASED ON OCCUPANT LOAD (N)	
32 x NA (SECTION 1005.3.1 STAIRWAYS)	NA INCHES
32 x NA (SECTION 1005.3.2 OTHER EGRESS COMPONENTS)	NA INCHES
PROVIDED CAPACITY (INCHES)	
STAIRWAYS	NA INCHES
OTHER EGRESS COMPONENTS	NA INCHES

MAXIMUM ALLOWABLE TRAVEL DISTANCE	200 FEET
LONGEST TRAVEL DISTANCE	100 FEET

MAXIMUM DEAD END LIMIT	20 FEET
MAXIMUM DEAD END LIMIT PROVIDED	NA FEET

COMMON PATH OF EGRESS TRAVEL	75 FEET
COMMON PATH OF EGRESS TRAVEL PROVIDED	20 FEET

TWO EXITS REQUIRED WHERE OCCUPANT LOAD EXCEEDS	29
--	----

MINIMUM NUMBER OF EXITS FOR OCCUPANT LOAD	
1-500	2 EXITS
501-1000	3 EXITS
MORE THAN 1000	4 EXITS

OCCUPANT LOAD TABLE (2018, 2021)

FUNCTION OF SPACE (1004.5)	OCC PER SF
ACCESSORY STORAGE AREAS, MECHANICAL, EQUIPMENT ROOM	300 GROSS
AGRICULTURE BUILDING	300 GROSS
AIRCRAFT HANGAR	500 GROSS
AIRPORT TERMINAL	
BAGGAGE CLAIM	20 GROSS
BAGGAGE HANDLING	300 GROSS
CONCOURSE	100 GROSS
WAITING AREAS	15 GROSS
ASSEMBLY	
GAMING FLOORS (KENO, SLOTS, ETC.)	11 GROSS
EXHIBIT GALLERY AND MUSEUM	30 NET
ASSEMBLY W/ FIXED SEATS	SEE SECTION 1004.6
ASSEMBLY W/O FIXED SEATS	
CONCENTRATED (CHAIRS ONLY-NOT FIXED)	7 NET
STANDING SPACE	5 NET
UNCONCENTRATED (TABLES AND CHAIRS)	15 NET
BOWLING CENTERS, ALLOW 5 PERSONS FOR EACH LANE INCLUDING 15 FEET OF RUNWAY, AND FOR ADDITIONAL AREAS	7 NET
BUSINESS AREAS	150 GROSS
CONCENTRATED BUSINESS USE AREA	SEE SECTION 1004.8
COURT ROOMS-OTHER THAN FIXED SEATING AREAS	40 NET
DAY CARE	35 NET
DORMITORIES	50 GROSS
EDUCATIONAL	
CLASSROOM AREA	20 NET
SHOPS AND OTHER VOCATIONAL ROOM AREAS	50 NET
EXERCISE ROOMS	50 GROSS
H-S FABRICATION AND MANUFACTURING AREAS	200 GROSS
INDUSTRIAL	100 GROSS
INSTITUTIONAL AREAS	
INPATIENT TREATMENT AREAS	240 GROSS
OUTPATIENT AREAS	100 GROSS
SLEEPING AREAS	120 GROSS
KITCHENS, COMMERCIAL	200 GROSS
LIBRARY	
READING ROOM	50 NET
STACK AREA	100 GROSS
LOCKER ROOMS	50 GROSS
MALL BUILDINGS - COVERED AND OPEN	SEE SECTION 402.8.2
MERCANTILE	
AREAS ON OTHER FLOORS	60 GROSS
STORAGE, STOCK, SHIPPING AREAS	300 GROSS
PARKING GARAGES	200 GROSS
RESIDENTIAL	200 GROSS
SKATING RINKS, SWIMMING POOLS	
RINK AND POOL	50 GROSS
DECKS	15 GROSS
STAGES AND PLATFORMS	15 NET
WAREHOUSES	500 GROSS

BUILDING ENVELOPE REQUIREMENTS

CLIMATE ZONE: Climate Zone 3

BUILDING ENVELOPE OPAQUE ELEMENTS

ROOFS		
INSULATION ENTIRELY ABOVE ROOF DECK	NA	R-19 + R-11
METAL BUILDINGS	NA	NA
ATTIC AND OTHER	NA	NA
WALLS, ABOVE GRADE		
MASS	NA	U-0.79
METAL BUILDINGS	NA	NA
METAL FRAMED	NA	NA
WOOD FRAMED AND OTHER	NA	NA
WALLS, BELOW GRADE		
BELOW-GRADE WALL	NA	NA
FLOORS		
MASS	NA	NA
JOISTS/FRAMING	NA	NA
SLAB-ON-GRADE FLOORS		
UNHEATED SLABS	NA	NA
HEATED SLABS	NA	NA
OPAQUE DOORS		
NONSWINGING	U-0.61	NA

NOTES

- 'ci' REPRESENTS CONTINUOUS INSULATION.
- 'OPAQUE DOOR' REPRESENTS DOORS HAVING LESS THAN 50% GLASS AREA.

BUILDING ENVELOPE FENESTRATION

VERTICAL FENESTRATION

U-FACTOR		
FIXED FENESTRATION	U-0.46	
OPERABLE FENESTRATION	U-0.60	
ENTRANCE DOORS	U-0.77	
SHGC		
ORIENTATION	SEW	N
PF < 0.2	0.25	0.33
0.2 ≤ PF < 0.5	0.30	0.37
PF ≥ 0.5	0.40	0.40
SKYLIGHTS		
U-FACTOR	U-.055	
SHGC	0.35	

PLUMBING FIXTURE RQMTS - IPC

IPC 2018 - TABLE 403.1

OCCUPANCY CLASSIFICATION AND USE: STORAGE S-1
OCCUPANT LOAD: 15

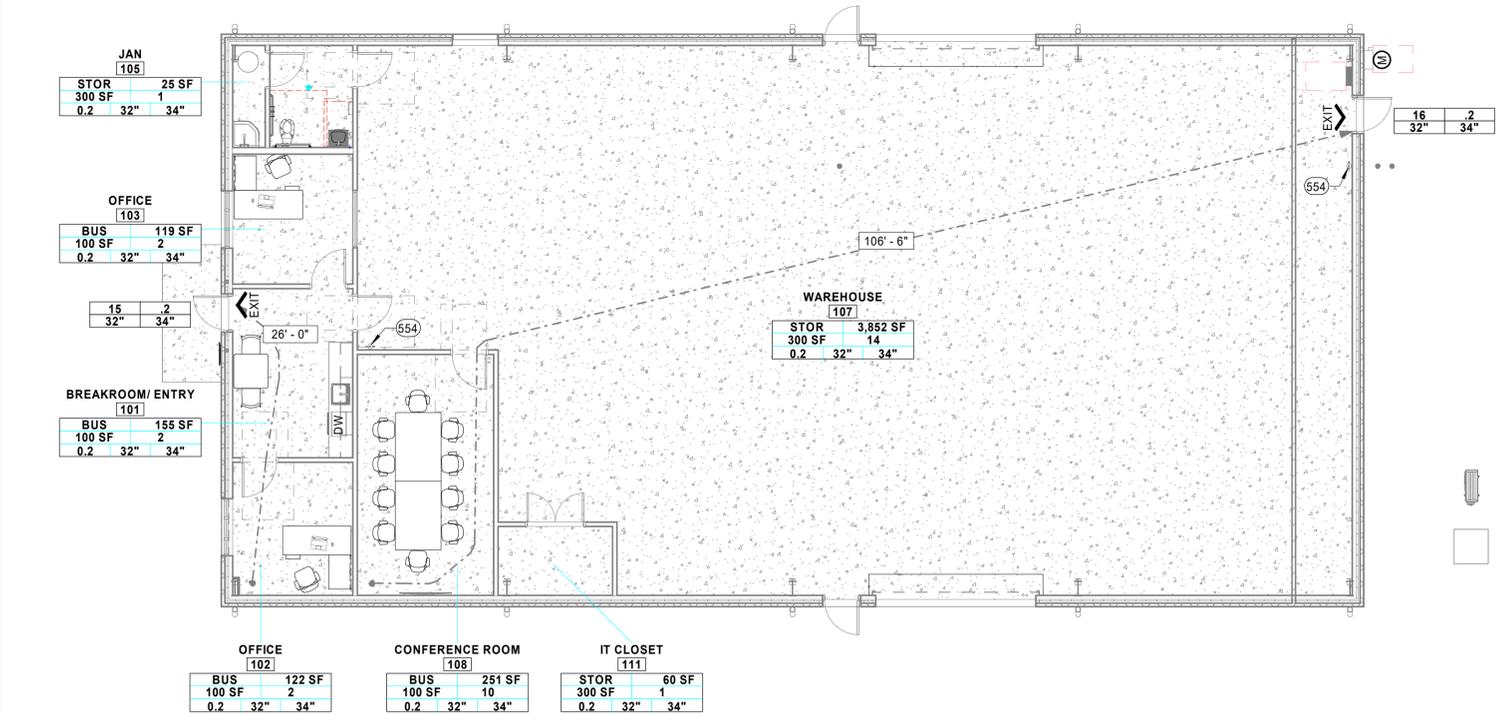
REQ'D PROVID.	WATER CLOSETS		LAVATORIES		DRINK. FOUNT.	SERVICE SINK
	MALE	FEMALE	MALE	FEMALE		
1	1	1	1	1	1	NA
1	1	1	1	1	1	NA

OCCUPANCY CLASSIFICATION AND USE: BUSINESS B
OCCUPANT LOAD: 17

REQ'D PROVID.	WATER CLOSETS		LAVATORIES		DRINK. FOUNT.	SERVICE SINK
	MALE	FEMALE	MALE	FEMALE		
1	1	1	1	1	1	NA
1	1	1	1	1	1	NA

GENERAL NOTES

- UL ASSEMBLIES INDICATED ESTABLISH BASIS PERFORMANCE. OTHER ASSEMBLIES MAY BE CONSIDERED AT DISCRETION OF ARCHITECT IF EQUIVALENT PERFORMANCE IS PROVIDED. SUBSTITUTION PROPOSALS SHALL INCLUDE CHANGES REQUIRED TO COMPONENTS OF ASSEMBLY. RATED ASSEMBLIES TO BE IDENTIFIED ABOVE CEILING AS REQUIRED BY LOCAL CODE AND THE AHJ.
- FIRE EXTINGUISHERS, (IFC SECTION 906 AND NFPA 10; CHAPTER 6 AND TABLE 6.2.1.1)
 - BUSINESS OCCUPANCY
 - CLASS A - LIGHT HAZARD OCCUPANCY
 - MAXIMUM FLOOR AREA FOR UNIT - 11,250 SF
 - MAXIMUM TRAVEL DISTANCE TO EXTINGUISHER - 75 FT.



A1 FIRST FLOOR - LIFE SAFETY PLAN
1/8" = 1'-0"

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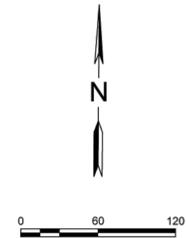
PROJECT NO.
40263.22

04/24/2023 Permit Set
DATE DESCRIPTION

Plat
C-101

**PRELIMINARY PLAT
HOMESTEAD ADDITION
SECTION 20**

Being a Replat of Lots 8-12, Block 6, Homestead Addition City and County of Midland, Texas



LEGEND

	Proposed Plat Limits
	Proposed Street ROW
	Proposed 10' Utility Easements
	Proposed Sewer Line
	Proposed Water Line
	Existing Lot Lines
	Existing Easements
	Existing Sewer Line
	Existing Water Line
	Existing Back of Curb
	Existing Edge of Asphalt
	Existing 1' Contours

- NOTES:**
- Selling a portion of this addition by metes and bounds may be a violation of city ordinance and state law and subject to fines and withholding of utilities and building permits.
 - Approval of a site plan by the City of Midland may be required before these lots may be developed or before a building permit may be obtained.
 - 1/2" iron rod with plastic cap set at each corner unless otherwise specified.
 - Initial impact fees will be assessed during the final platting process. Implementation and collection of impact fees will take place during the building permit process. Additional impact fees or increases in fees may not be assessed against the tract unless the number of service units to be developed on the tract increases.

SURVEYOR'S CERTIFICATE
KNOW ALL MEN BY THESE PRESENTS
That I, Samuel Wyatt, a Registered Professional Land Surveyor, do hereby certify that I prepared this plat from an actual and accurate survey of the land and that the corner monuments shown thereon were properly placed under my personal supervision, in accordance with the Subdivision Regulations of the City of Midland, Texas.

Samuel Wyatt, R.P.L.S. #6453

CERTIFICATE OF APPROVAL
This is to certify that the above and foregoing plat of HOMESTEAD ADDITION, SECTION 20 was approved by proper action of the City Planning and Zoning Commission of the City of Midland, Texas, on this the _____ day of _____

Chairman - Luoy Sisnega Secretary - Elizabeth Shaughnessy

OWNER'S CERTIFICATE
STATE OF TEXAS
COUNTY OF MIDLAND
WHEREAS, MIDLAND COUNTY, TEXAS, is the record owner of 0.79 Acres of Land Located in Section 35, Block 40, T-1-S T&P RR Co. Survey, City and County of Midland, Texas and more particularly described, shown on the plat hereon.
NOW, THEREFORE, KNOW ALL MEN BY THESE PRESENTS :
That we, MIDLAND COUNTY, TEXAS do hereby adopt this plat designating the herein above described property as HOMESTEAD ADDITION, SECTION 20 to the City and County of Midland, Texas, and we do hereby dedicate to the public use forever the streets, and easements shown thereon.
WITNESS our hands at Fort Worth, Texas, this the _____ day of _____

By: Ben Clark Division Vice President

STATE OF TEXAS :
COUNTY OF TARANT :
This instrument was acknowledged before me on _____ by Ben Clark on behalf of MIDLAND COUNTY, TEXAS.

Notary Public Signature

OWNER:
Midland County, Texas
500 North Loraine
Midland, Texas 79701
432-742-7777
ENGINEER:
Parkhill
1700 W Wall St., #100 Midland,
Texas 79701
432-697-1447

**HOMESTEAD ADDITION
SECTION 20**



Parkhill.com
TBPELS FIRM REGISTRATION NO. 10194091

PLAT FILED FOR RECORD
MIDLAND COUNTY, TEXAS
NO. _____ CABINET _____
DATE _____ PAGE _____

SPECIAL STATE PLANE COORDINATE NOTE
Bearings, distances and coordinates are relative to the Texas State Plane Coordinate System (Central Zone 1983 NAD), with a combined grid factor of 0.9998958 for mean project datum. The theta angle is equal to -00°54'48.39" at USC&GS station "Midland", with published values of N=10,690,154.70 and E=1,746,696.78 in U.S. Survey Feet.

FLOOD ZONE INFORMATION
Based on the U.S. Department of Housing and Urban Development, Federal Insurance Administration Flood Hazard Boundary Map, Community Number 480477, Map Number 48329C0089F, Panel 202 of 525, revised September 16, 2005, the surveyed property is not located in a Special Flood Hazard Area. According to the map, the current flood zone classification for the surveyed property is Zone X.

UTILITY COMPANY'S CERTIFICATE
This plat has been checked for accessibility of utilities.

Oncor Electric Delivery Service (PLEASE PRINT)

AT&T Texas (PLEASE PRINT)

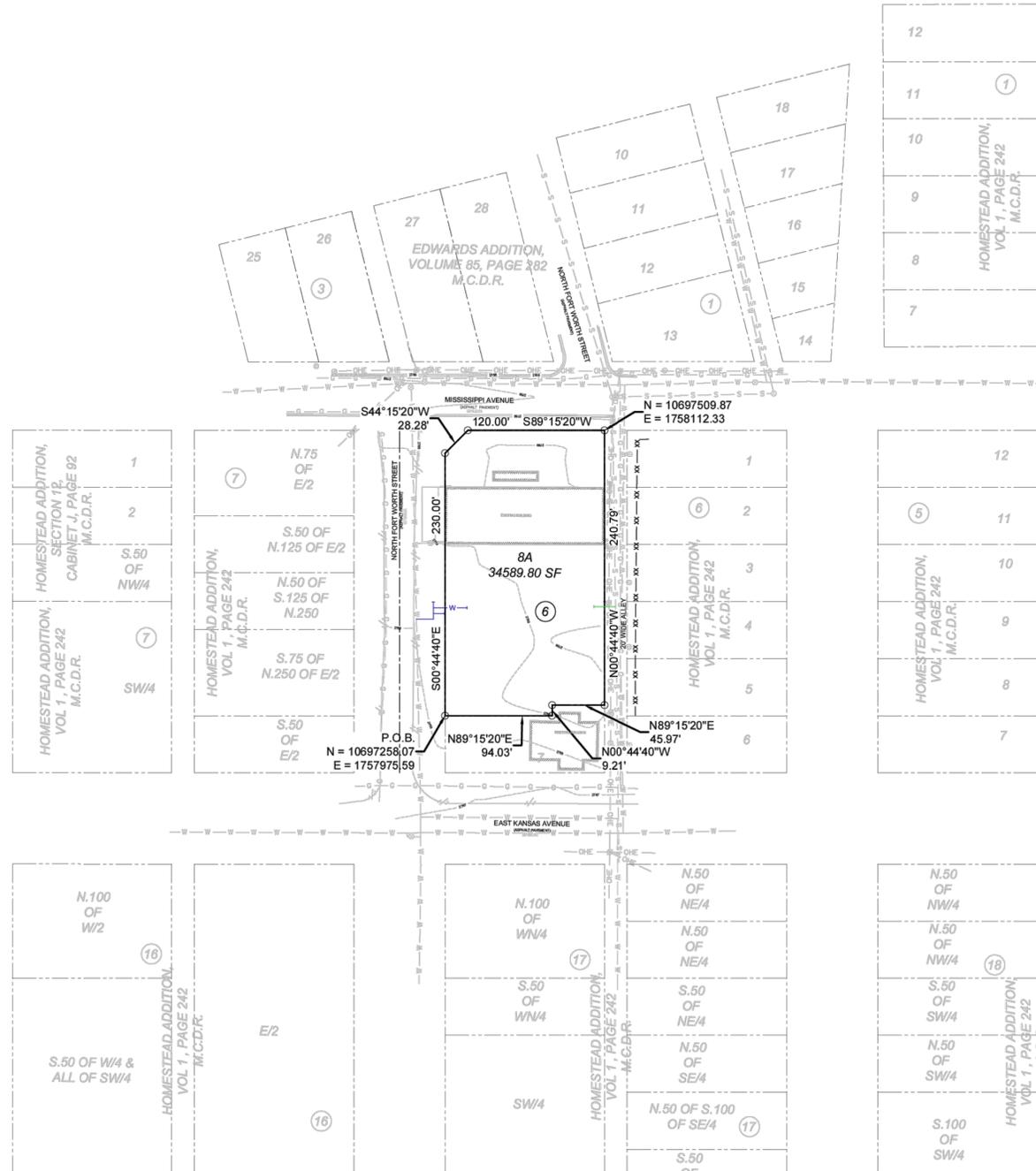
Almos Energy (PLEASE PRINT)

Optimum (PLEASE PRINT)

Astound Broadband (PLEASE PRINT)



LOCATION MAP





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Midland County

804 N. Fort Worth St.
Midland, Texas 79701

PROJECT NO.

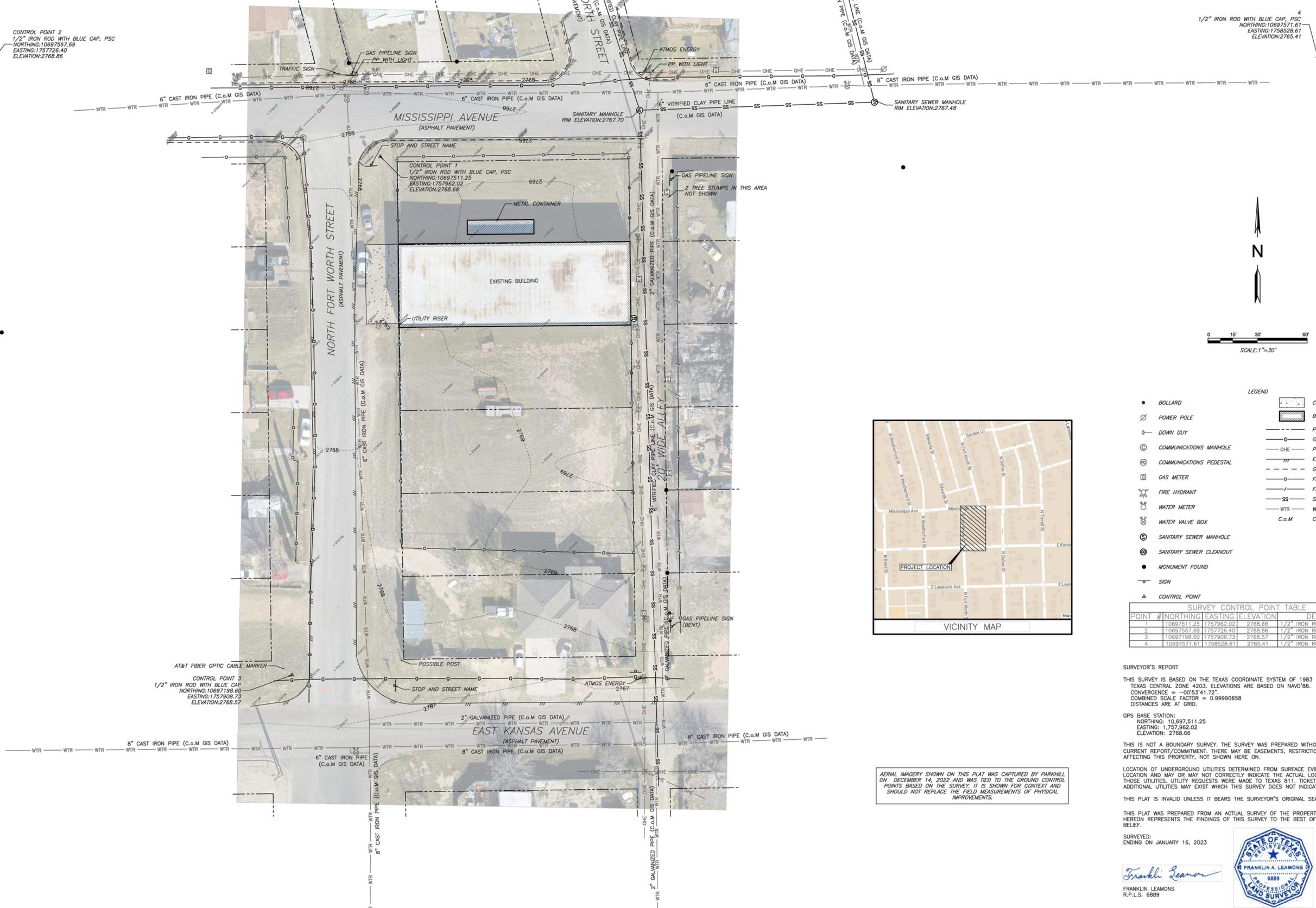
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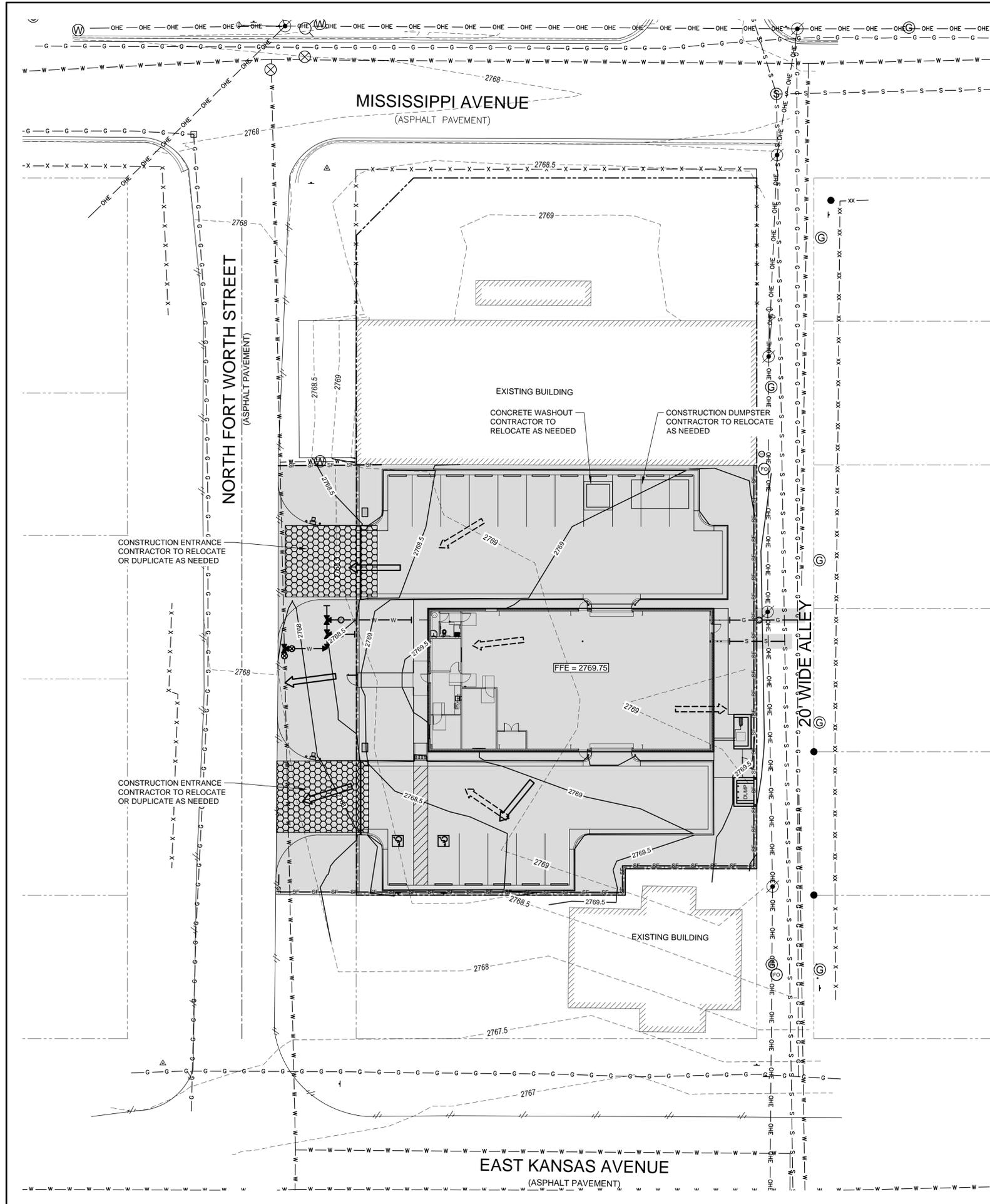
Topographic Survey

V-101



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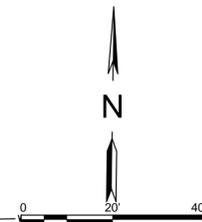


EROSION CONTROL PLAN NOTES

- A. REFER TO SHEET CE501 FOR DETAILS
- B. REMOVE AND REPLACE CONCRETE WASHOUT WHEN 75% OF THE VOLUME IS REACHED.
- C. CONCRETE WASHOUT AREA MAY BE RELOCATED OR DUPLICATED AS NECESSARY. PORTABLE WASHOUT IS ALLOWED.
- D. SUBMIT ALTERNATE BMP'S FOR APPROVAL PRIOR TO INSTALLATION.
- E. PER THE CITY STORM WATER ADMINISTRATORS: STABILIZE BORROWED STOCKPILES AND STAGING AREAS AT THE COMPLETION OF THE PROJECT.
- F. PRIOR TO ANY SOIL GRADING ACTIVITIES, CONTRACTOR TO CALL 432-685-7287 FOR INSPECTION.
- G. **PRE-APPROVED DEVELOPMENT SWPPP REQUIREMENTS:**
- G.A. **"DEVELOPERS ARE NOW REQUIRED TO CALL 432-685-7517 TO REQUEST A STORMWATER INSPECTION BEFORE GRADING LAND FOR PROJECT SITES"**
- G.B. **FOR COMMERCIAL PLANS THAT ARE IN THE PRE-APPROVAL STAGES, THE DEVELOPER, CONTRACTOR, BUILDER ETC. MUST HAVE THE FOLLOWING STORMWATER MEASURES IN PLACE, PER THE APPROVED CITY STANDARD, PRIOR TO BEGINNING ANY CONSTRUCTION. THESE MEASURES INCLUDE:**
- G.B.A. **SILT FENCE - INSTALL PER CITY STANDARDS AND MUST BE TRENCHED 6 INCHES INTO THE GROUND WITH METAL MESH FACING THE STREET AND J-HOOKED AND BACKFILLED. ADDITIONALLY, FENCE MUST BE STAKED EVERY 6 FT. TO ENSURE PROPER STABILITY.**
- G.B.B. **CONSTRUCTION SITE ENTRANCE - CITY STANDARDS CALL FOR "BULL ROCK" WITH A 6-8-INCH DIAMETER ROCK. THE TYPICAL ENTRANCE MUST BE 50 FT. LONG AND 14 FT. WIDE. (LENGTH AND WIDTH CAN BE ADJUSTED DEPENDING ON SITE SIZE)**
- G.B.C. **INLET PROTECTION - IF THE SITE IS BORDERED BY STORMWATER INLETS, THEY MUST BE PROTECTED BY THE DEVELOPER USING SANDBAGS OR FIBER WATTLES.**
- G.B.D. **TCEQ REQUIRES ALL DEVELOPERS IN THE CITY OF MIDLAND THAT DEVELOP SMALL SITES (1-5 ACRES CONSTRUCTION SITE); AND LARGE SITES (5 OR MORE ACRES CONSTRUCTION SITE) TO SUBMIT A SIGNED COPY OF THE NOTICE OF INTENT (NOI) OR CONSTRUCTION SITE NOTICE (CSN) TO THE CITY OF MIDLAND AT LEAST 7 DAYS PRIOR TO THE BEGINNING ANY SITE PREPARATION.**
- G.C. **IF THERE ARE ANY QUESTIONS OR CONCERNS, PLEASE CONTACT THE CITY OF MIDLAND, STORMWATER DIVISION AT 432-685-7357.**
- H. **FINAL SITE STABILIZATION: IN ACCORDANCE WITH PARTS III.G.1 AND III.G.2 OF THE CONSTRUCTION STORMWATER GENERAL PERMIT, STABILIZATION OF ALL DISTURBED AREAS MUST, AT A MINIMUM, BE INITIATED IMMEDIATELY (i.e. AS SOON AS PRACTICABLE, BUT NO LATER THAN THE END OF THE NEXT WORK DAY) WHENEVER ANY EARTHWORK ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE. THE CITY WILL NOT SUPPORT A C.O. UNLESS THIS REQUIREMENT HAS BEEN FULFILLED. CONTRACTOR BEWARE: THIS REQUIREMENT WILL BE ENFORCED WITH ZEAL**

LEGEND

- PROPERTY LINE
- AREA AFFECTED BY PROJECT (APPROX. 0.57 ACRES)
- SF-SF- SILT FENCE
- ~ EXISTING CONTOURS (0.5' INTERVAL)
- ~ NEW CONTOURS (0.5' INTERVAL)
- ▣ STABILIZED CONSTRUCTION ENTRANCE - SEE DETAIL 701/CS202
- FLOW DIRECTION (EXISTING)
- FLOW DIRECTION (PROPOSED)



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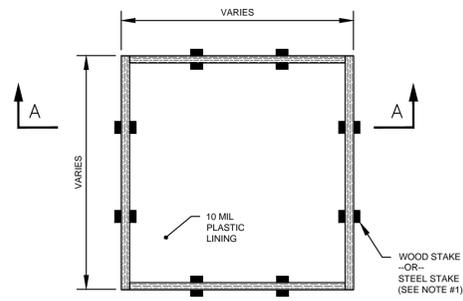
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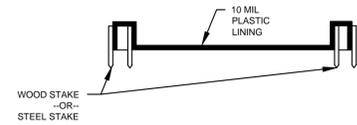
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Erosion Control Plan

CE101



ELEVATED WASHOUT

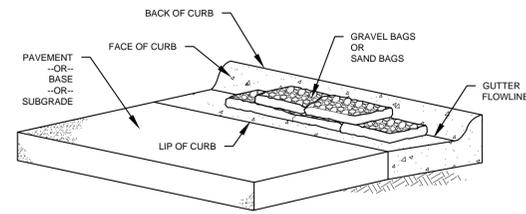


SECTION 'A-A'

NOTES:

1. THIS WASHOUT CONFIGURATION MAY NOT BE USED IN PAVED AREAS.
2. WOOD FRAME IS TO BE EQUAL TO OR BETTER THAN TWO-STACKED 2X12 ROUGH WOOD FRAME.
3. MATERIALS AND CONSTRUCTION METHODS TO CONFORM TO CITY OF MIDLAND STANDARDS AND SPECIFICATIONS.
4. CONSTRUCT AS SHOWN UNLESS OTHERWISE APPROVED IN WRITING BY THE CITY ENGINEER.

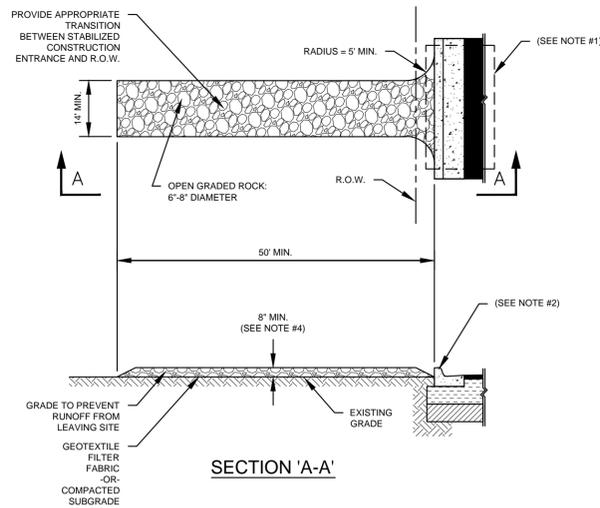
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EFFECTIVE DATE: 10/01/2018	SCALE: NTS	DETAIL:
		CONCRETE WASHOUT OPTION 2
		705



NOTES:

1. FILL BAGS TO 60% CAPACITY WITH EITHER CLEAN GRAVEL OR CLEAN SAND.
2. GRAVEL TO BE NO LESS THAN 1" DIAMETER OR GREATER THAN 2" DIAMETER.
3. PLACE BAGS WITH BAG OPENINGS SECURED AND FACE UP, AND SO THAT EACH BAG IS FLAT AND HAS THE GREATEST POSSIBLE SURFACE AREA CONTACT WITH THE CURB.
4. PLACE BAGS AGAINST THE FACE-OF-CURB AND DO NOT PLACE BAGS BEYOND THE LIP-OF-CURB.
5. DO NOT BLOCK ADA RAMPS OR WALKWAYS WITH BAGS.
6. MATERIALS AND CONSTRUCTION METHODS TO CONFORM TO CITY OF MIDLAND STANDARDS AND SPECIFICATIONS.
7. CONSTRUCT AS SHOWN UNLESS OTHERWISE APPROVED IN WRITING BY THE CITY ENGINEER.

DRAWN: DPM	CHECKED: JCF	APPROVED: MCC
EFFECTIVE DATE: 10/01/2018	SCALE: NTS	DETAIL:
		CURB GRAVEL OR SAND BAGS
		712

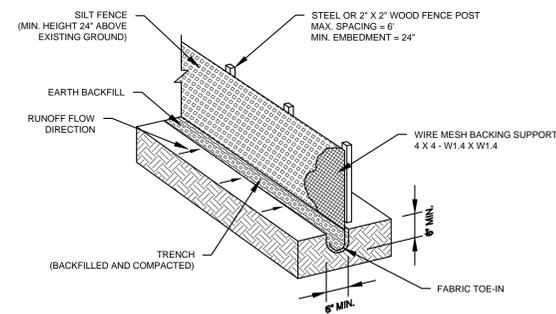


SECTION 'A-A'

NOTES:

1. IF CURB DOES NOT EXIST OR IF EXISTING CURB IS REMOVED DURING CONSTRUCTION THEN STABILIZED CONSTRUCTION ENTRANCE IS TO EXTEND TO THE EDGE OF PAVEMENT.
2. IF CURB IS LEFT IN PLACE DURING CONSTRUCTION THEN INSTALL TEMPORARY CURB PROTECTION AS PER CITY DETAIL 713.
3. LENGTH SHALL BE AS SHOWN ON THE CONSTRUCTION DRAWINGS, BUT NOT LESS THAN FIFTY (50) FEET.
4. THICKNESS OF OPEN GRADED ROCK TO BE NO LESS THAN EIGHT (8) INCHES.
5. WIDTH SHALL BE NO LESS THAN FOURTEEN (14) FEET OR THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS, WHICHEVER IS WIDER.
6. STABILIZED CONSTRUCTION ENTRANCE TO BE REMOVED UPON COMPLETION OF CONSTRUCTION.
7. MATERIALS AND CONSTRUCTION METHODS TO CONFORM TO CITY OF MIDLAND STANDARDS AND SPECIFICATIONS.
8. CONSTRUCT AS SHOWN UNLESS OTHERWISE APPROVED IN WRITING BY THE CITY ENGINEER.

DRAWN: DPM	CHECKED: JCF	APPROVED: MCC
EFFECTIVE DATE: 10/01/2018	SCALE: NTS	DETAIL:
		STABILIZED CONSTRUCTION ENTRANCE OPTION 1
		701



NOTES:

1. THIS DETAIL IS TO BE USED FOR SHEET FLOW CONDITIONS ONLY. DO NOT USE SILT FENCE FOR POINT FLOW OR CONCENTRATED FLOW CONDITIONS.
2. INSTALL STEEL OR WOOD POSTS, WHICH SUPPORT THE SILT FENCE, WITH A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POSTS MUST BE EMBEDDED A MINIMUM OF ONE (1) FOOT.
3. TRENCH THE TOE OF THE SILT FENCE IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWN-SLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW, WHERE THE FENCE CANNOT BE TRENCHED IN (E.G. PAVEMENT), WEIGHT DOWN FABRIC FLAP WITH WASHED GRAVEL ON UPHILL SIDE TO PREVENT FLOW UNDER FENCE.
4. THE TRENCH MUST BE A MINIMUM OF SIX (6) INCHES DEEP AND SIX (6) INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
5. SECURELY FASTEN SILT FENCE TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IN TURN IS TO BE ATTACHED TO THE STEEL OR WOOD FENCE POST. INCLUDE A SIX (6) INCH DOUBLE OVERLAP, SECURELY FASTENED, WHERE ENDS OF FABRIC MEET.
6. REMOVE SILT FENCE WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. REMOVE ACCUMULATED SILT WHEN IT REACHES A DEPTH OF SIX (6) INCHES. DISPOSE OF THE SILT ONSITE IN AN APPROVED LOCATION AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.
8. MATERIALS AND CONSTRUCTION METHODS TO CONFORM TO CITY OF MIDLAND STANDARDS AND SPECIFICATIONS.
9. CONSTRUCT AS SHOWN UNLESS OTHERWISE APPROVED IN WRITING BY THE CITY ENGINEER.

DRAWN: DPM	CHECKED: JCF	APPROVED: MCC
EFFECTIVE DATE: 10/01/2018	SCALE: NTS	DETAIL:
		SILT FENCE
		706



CLIENT
Midland County

804 N. Fort Worth St.
Midland, Texas 79701

PROJECT NO.
40263.22

04/24/2023 Permit Set
DATE DESCRIPTION

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DRAINAGE NARRATIVE

THE EXISTING SITE IS DISCHARGING A TOTAL OF 1.93 CFS DURING A 100 YEAR STORM EVENT. AREA A1 DISCHARGES 1.31 CFS DURING A 100 YEAR STORM EVENT WEST TO NORTH FT WORTH STREET, THEN FLOWS SOUTH TO EAST KANSAS AVE. AREA A2 DISCHARGES 0.62 CFS DURING A 100 YEAR STORM EVENT EAST TO THE ALLEY, THEN FLOWS SOUTH TO EAST KANSAS AVE.

PRE-DEVELOPMENT CONDITIONS HYDROLOGY CALCULATIONS									
DA#	AREA (AC)	TC (MIN)	C _S	5-YEAR (IN/HR)	Q _S (CFS)	C ₁₀₀	100-YR (IN/HR)	Q ₁₀₀ (CFS)	COMMENTS
A1	0.33	10	0.34	4.91	0.55	0.47	8.53	1.31	UNDEVELOPED LAND, MINIMAL GRASS; DRAINS TOWARDS N FORT WORTH STREET R.O.W.
A2	0.15	10	0.34	4.91	0.26	0.47	8.53	0.62	UNDEVELOPED LAND, MINIMAL GRASS; DRAINS TOWARDS ALLEY
					0.80			1.93	TOTAL Q

LEGEND

- PROPERTY LINE
- - - EXISTING CONTOURS (0.5' INTERVAL)
- - - PROPOSED CONTOURS (0.5' INTERVAL)
- - - DRAINAGE AREA BOUNDARY
- > EXISTING DIRECTION OF FLOW
- XX = DRAINAGE AREA NUMBER
- YY = AREA IN ACRES

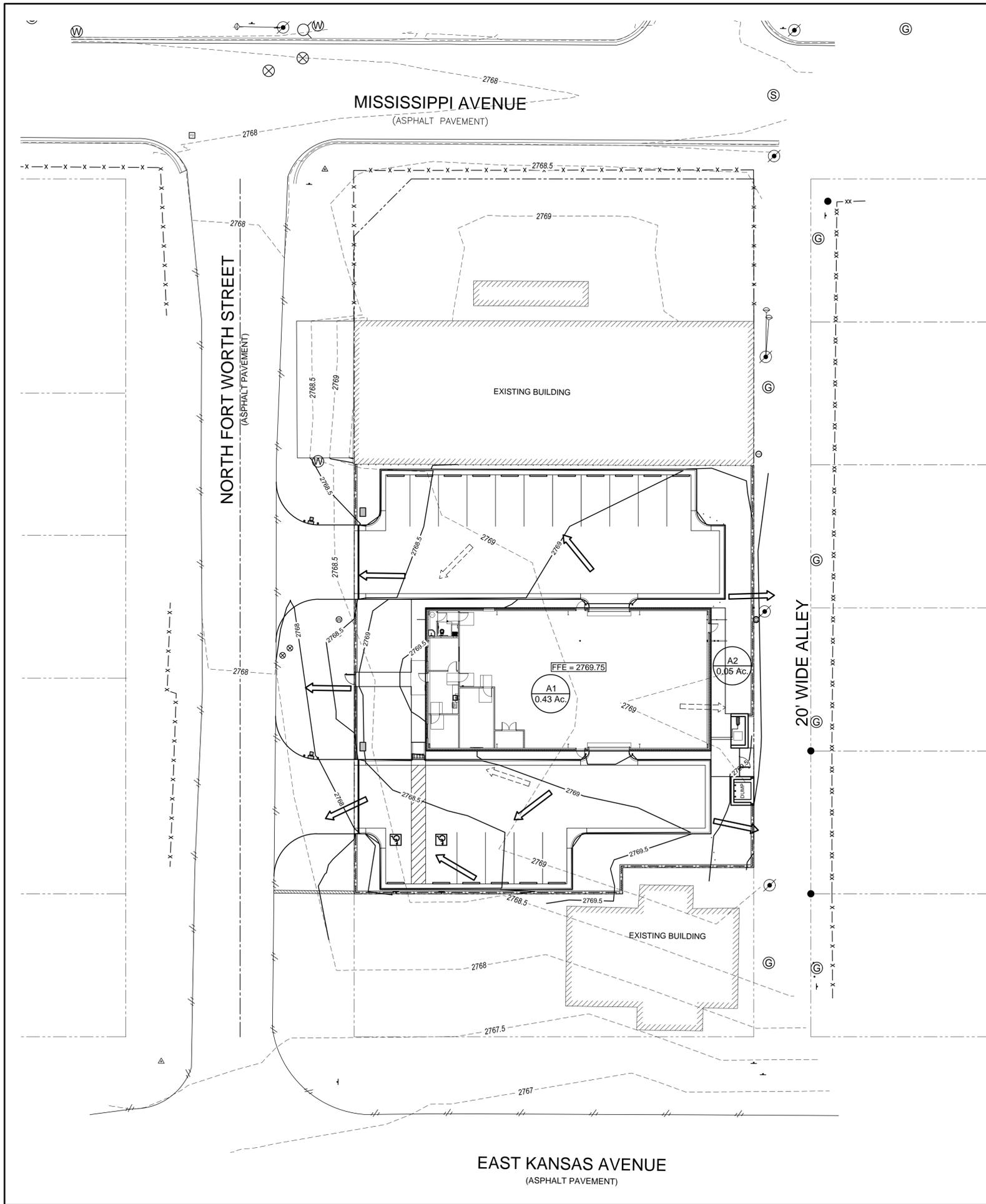


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804 N. Fort Worth St.
Midland, Texas 79701

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40263.22

04/24/2023 Permit Set
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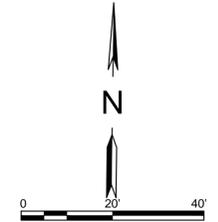


DRAINAGE NARRATIVE

THE PROPOSED DEVELOPMENT DISCHARGES A TOTAL OF 3.27 CFS DURING A 100 YEAR STORM EVENT. THE TOTAL INCREASE IN FLOW IS 1.34 CFS. AREA A1 DISCHARGES 3.07 CFS DURING A 100 YEAR STORM EVENT WEST TO NORTH FT WORTH STREET, THEN FLOWS SOUTH TO EAST KANSAS AVE. THE INCREASE IN FLOW FOR AREA A1 IS 1.76 CFS. AREA A2 DISCHARGES 0.21 CFS DURING A 100 YEAR STORM EVENT EAST TO THE ALLEY, THEN FLOWS SOUTH TO EAST KANSAS AVE. THE DECREASE IN FLOW IS 0.41 CFS.

POST-DEVELOPMENT CONDITIONS HYDROLOGY CALCULATIONS										
DA#	AREA (AC)	TC (MIN)	C5	5-YEAR (IN/HR)	Q5 (CFS)	C100	100-YR (IN/HR)	Q100 (CFS)	COMMENTS	
A1	0.43	10	0.73	4.91	1.54	0.84	8.53	3.07	DEVELOPED LAND, PAVED, WITH BUILDING; DRAINS TOWARDS N FORT WORTH STREET R.O.W.	
A2	0.05	10	0.16	4.91	0.04	0.48	8.53	0.21	DEVELOPED LAND; DRAINS TOWARDS ALLEY	
								1.58	3.27	TOTAL Q

- LEGEND**
- PROPERTY LINE
 - - - EXISTING CONTOURS (0.5' INTERVAL)
 - ~ ~ ~ PROPOSED CONTOURS (0.5' INTERVAL)
 - DRAINAGE AREA BOUNDARY
 - > EXISTING DIRECTION OF FLOW
 - ==> PROPOSED DIRECTION OF FLOW
 - (XX) XX = DRAINAGE AREA NUMBER
 - (YY) YY = AREA IN ACRES



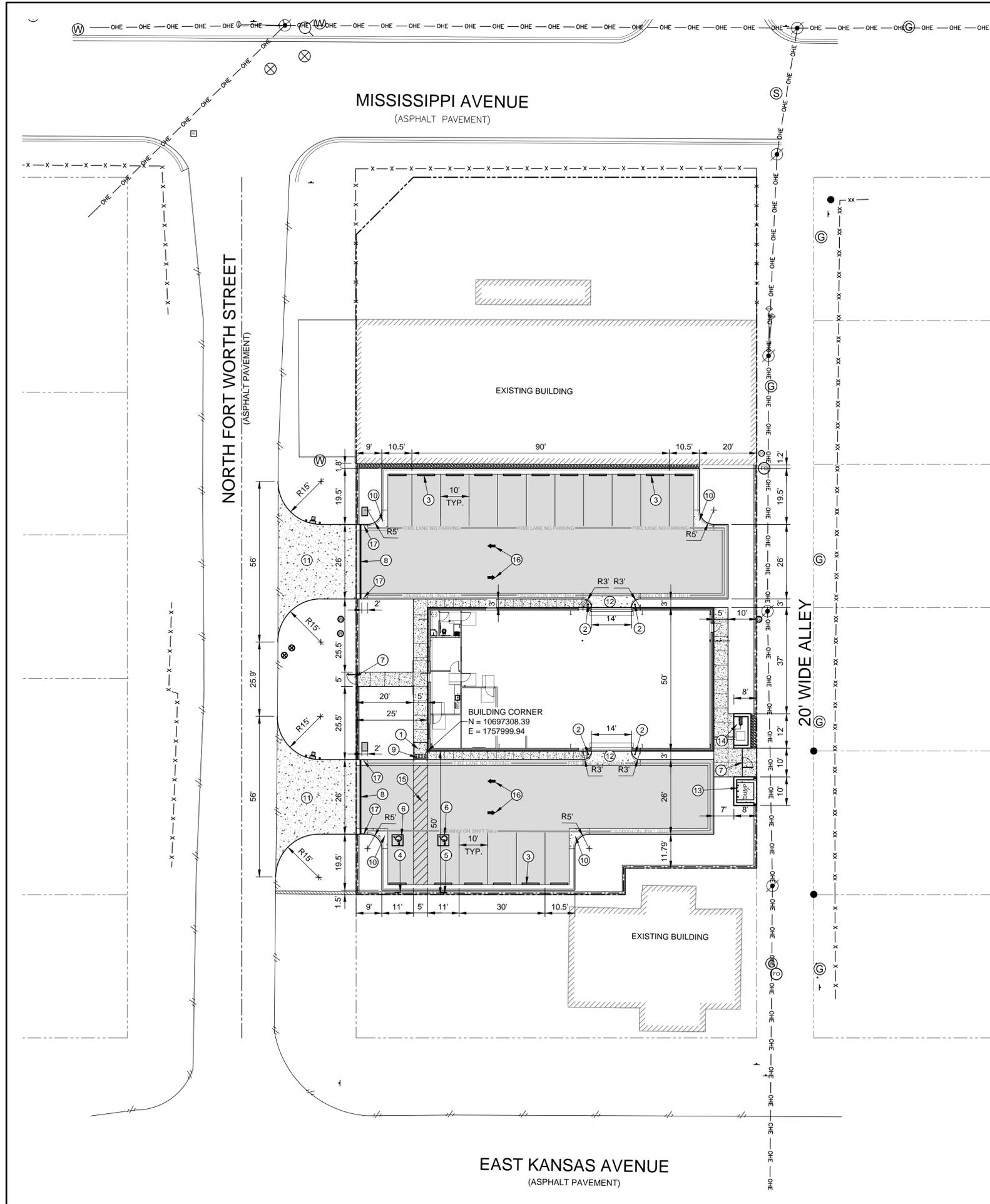
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Midland County

804 N. Fort Worth St.
Midland, Texas 79701

PROJECT NO.
40263.22

04/24/2023 Permit Set
DATE DESCRIPTION

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PARKING LOT COUNT		
BUILDING AREA = 5000sf	REQUIRED	PROVIDED
REGULAR SPACES (1 space / 1000sf)	5	15
ACCESSIBLE SPACES (1 space / 25 spaces)	1	2
TOTAL SPACES	6	17

KEY NOTES

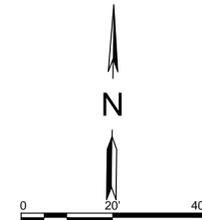
- AS INDICATED BY: (C)
- HANDICAP RAMP - SEE DETAIL B5/CS501
 - BOLLARD - SEE DETAIL B3/CS501
 - PARKING BLOCK - SEE DETAIL A5/CS501
 - HANDICAP SIGN - SEE DETAIL B1/CS501
 - HANDICAP SIGN WITH "VAN ACCESSIBLE" PLACARD - SEE DETAIL B1/CS501
 - HANDICAP MARKING - SEE DETAIL B4/CS501
 - PEDESTRIAN GATE - SEE LANDSCAPE
 - DRIVEWAY GATE - SEE LANDSCAPE
 - DETECTABLE WARNING SURFACE - SEE DETAIL 233/CS502
 - CONCRETE FILLET - A4/CS501
 - DRIVEWAY IN PUBLIC RIGHT-OF-WAY - SEE DETAIL C4/CS502
 - PRIVATE DRIVE - SEE DETAIL A4/CS503
 - DUMPSTER WALL SECTION - SEE DETAIL C1/CS501
 - MECHANICAL PAD SCREEN WALL - SEE DETAIL C5/CS501
 - ACCESS AISLE MARKING - SEE DETAIL C3/CS501
 - ARROW STRIPE - SEE DETAIL A1/CS503
 - CURB TRANSITION DOWN - SEE DETAIL C4/CS503

SITE PLAN NOTES

- FIRE LANE MARKING SHALL BE 6" WIDE RED BACKGROUND STRIPE WITH 4" WHITE LETTERS USING 3/4" STROKE STATING "NO PARKING FIRE LANE". PAINT EVERY 25' ON CENTER ALONG THE FIRE LANE. PLACE FIRE LANE MARKING ON THE VERTICAL SURFACE OF THE CURB WHEN PRESENT OR ON THE PARKING SURFACE WHEN NOT.
- FIRE LANE MARKING SHOWN IS REPRESENTATIONAL. FIRE LANE MARKING SHALL BE A MINIMUM OF 20' APART OR 26' APART WHEN ADJACENT TO BUILDINGS OVER 30' HIGH. FIRE LANE MARKING SHALL BE PAINTED ON A CURB FACE WHERE THE REPRESENTATIONAL MARKING IS SHOWN NEXT TO A CURB. COORDINATE FIRE LANE MARKINGS WITH CITY OF MIDLAND FIRE MARSHAL PRIOR TO INSTALLATION. 432-685-7436.
- INSTALL FIRE APPARATUS ACCESS ROADS AND MAKE SERVICEABLE PRIOR TO THE START OF BUILDING FRAMING.
- STRIPING WIDTH = 4". STRIPE COLOR = WHITE, HANDICAP AND MEDIAN ISLAND STRIPES (YELLOW). PLACE DIAGONAL STRIPES (45°) AT 24" ON CENTER.
- CALL THE ONE CALL SYSTEM (811) PRIOR TO CONSTRUCTION. LOCATE AND PROTECT EXISTING UTILITIES AND STRUCTURES DURING CONSTRUCTION, AND REPAIR ANY DAMAGES TO EXISTING FEATURES AT CONTRACTOR'S EXPENSE.
- ALL CONSTRUCTION SHALL BE ACCORDANCE WITH THE LATEST CITY OF MIDLAND DESIGN STANDARDS, REQUIREMENTS AND SPECIFICATIONS, UNLESS OTHERWISE NOTED ON THE PLANS.
- FOLLOW BEST MANAGEMENT PRACTICES (BMP'S) AND COMPLY WITH EPA & TCEQ STORM WATER POLLUTION PREVENTION PLAN (SWPPP) REQUIREMENTS.
- REFER TO ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
- DOWEL SIDEWALKS INTO PAVEMENT AT TIE-INS TO EXISTING SLABS, AND TO DRIVEWAY PAVEMENTS. INSTALL EXPANSION JOINT MATERIAL WHERE PAVEMENT ABUTS EXISTING STRUCTURES FOR ISOLATION PURPOSES.
- INSTALL EXPANSION JOINT ALONG BACK OF CURB ALONG SIDEWALK, AND AT TOP OF RAMP. SEE PRIVATE JOINTING DETAILS A2/CS503.
- DO NOT INSTALL STEEL REINFORCEMENT IN CONCRETE LOCATED WITHIN THE PUBLIC RIGHT OF WAY. USE FIBER MESH PER CITY REQUIREMENTS.
- ALL DIMENSIONS ARE BACK OF CURB TO BACK OF CURB, FACE OF BUILDING, AND PROPERTY LINE UNLESS OTHERWISE NOTED.
- CONTRACTOR IS TO SCHEDULE A PRE-PAVING MEETING WITH THE ENGINEER AT LEAST 7 DAYS PRIOR TO ANY PAVING.

LEGEND

- PROPERTY LINE
- x-x- PROPOSED FENCING WITH MOW STRIP - SEE LANDSCAPE
- - - EXISTING EDGE OF ASPHALT
- FIRE LANE MARKING - SEE DETAIL B1/CS501 & NOTES/ THIS SHEET
- [Pattern] SIDEWALK - SEE DETAIL D2/CS501
- [Pattern] CONCRETE PAVING - SEE DETAIL A2/CS501 & NOTE K/ THIS SHEET
- [Pattern] ASPHALT PAVEMENT - SEE DETAIL A1/CS501
- [Pattern] CRUSHED GRANITE - SEE LANDSCAPE



Parkhill



Parkhill.com

Facilities Warehouse
Midland County



CLIENT
Midland County

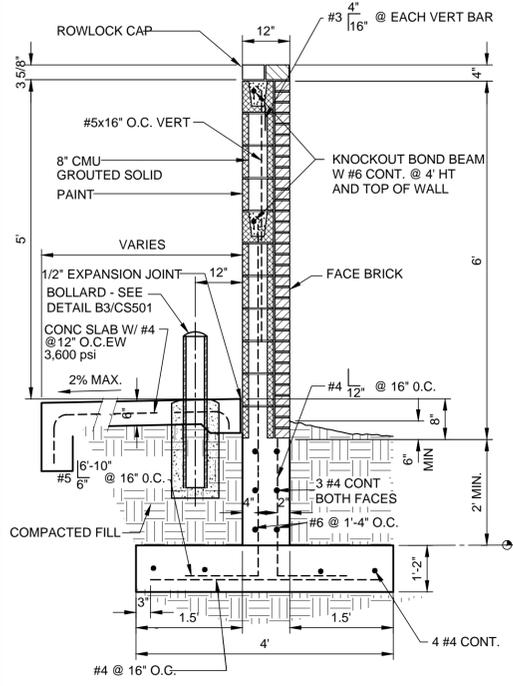
804 N. Fort Worth St.
Midland, Texas 79701

PROJECT NO.
40263.22

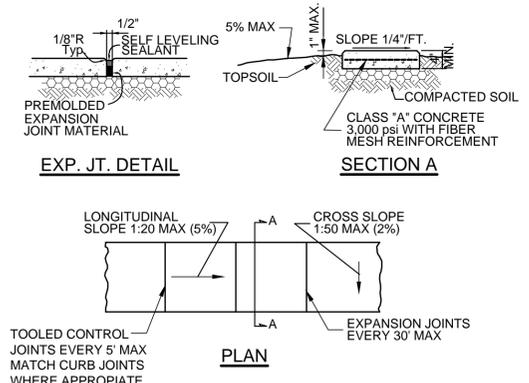
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Site Plan
CS101

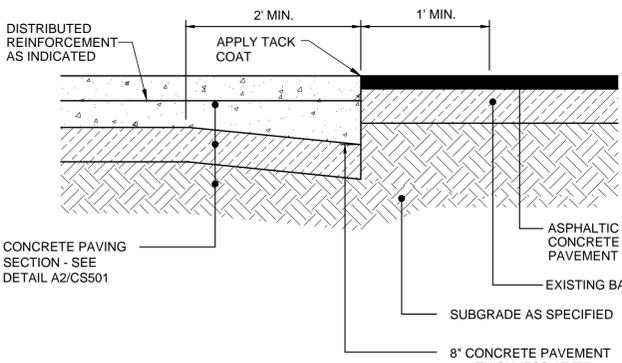
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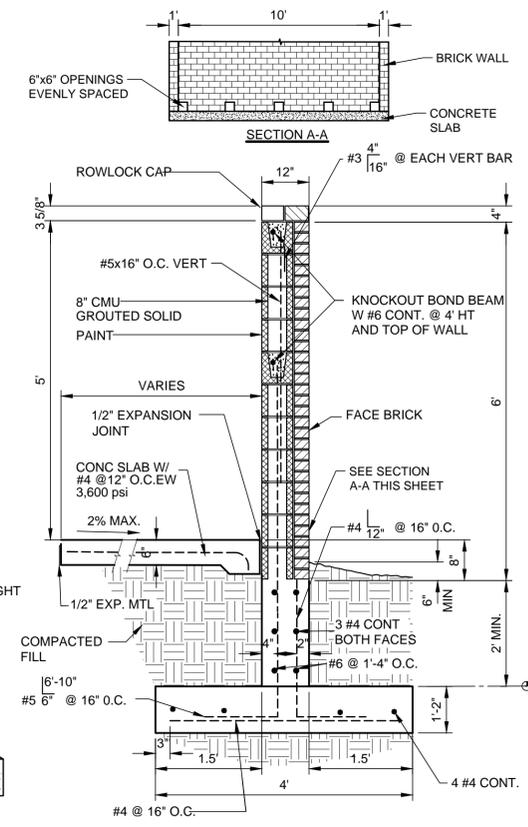
C1 DUMPSTER WALL SECTION
NO SCALE



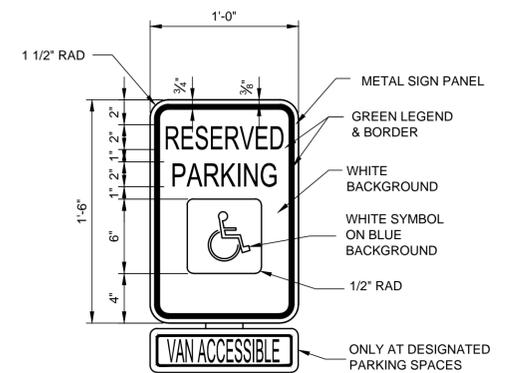
D2 CONCRETE SIDEWALK
NO SCALE



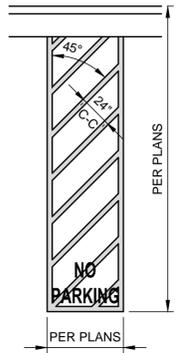
D3 TIE NEW CONCRETE TO EXISTING ASPHALT
NO SCALE



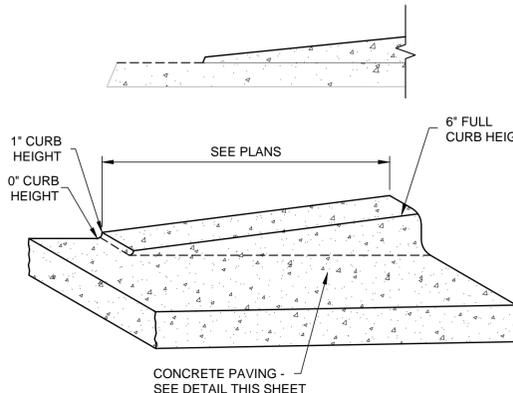
C5 SCREEN WALL
NO SCALE



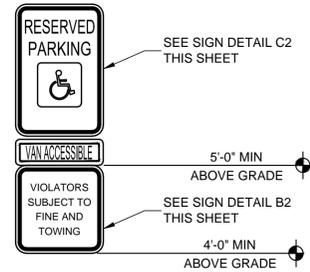
C2 SIGN DIMENSIONS
NO SCALE



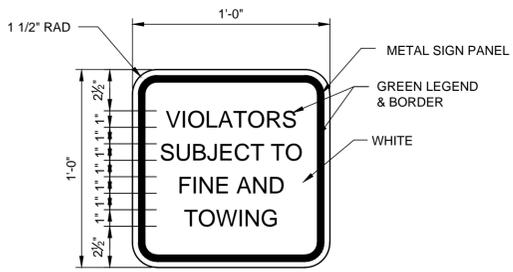
C3 ACCESS AISLE MARKING
NO SCALE



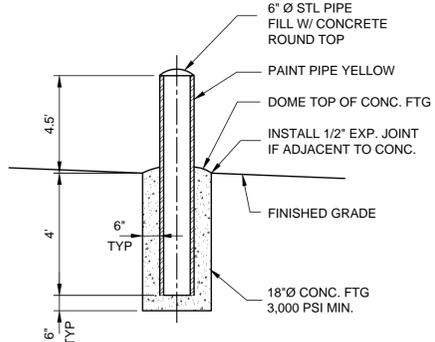
C4 CURB TRANSITION DOWN
NO SCALE



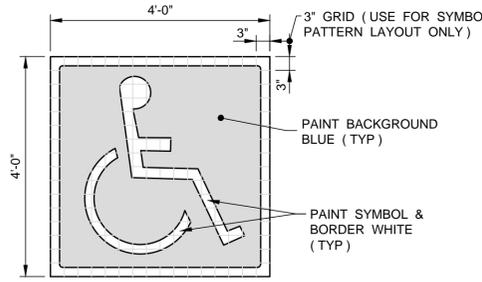
B1 MOUNTED SIGN
NO SCALE



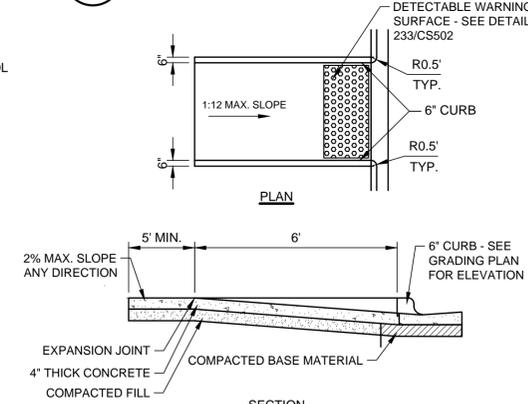
B2 SIGN DIMENSIONS
NO SCALE



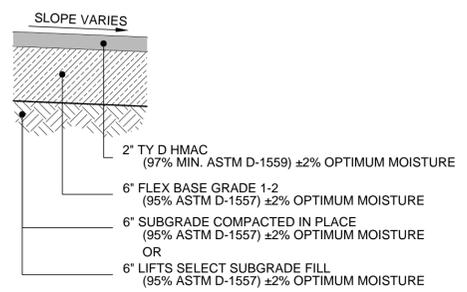
B3 BOLLARD
NO SCALE



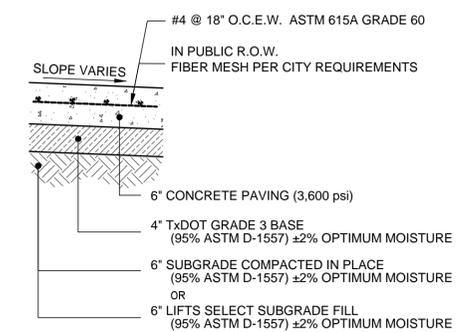
B4 SYMBOL OF ACCESSIBILITY
NO SCALE



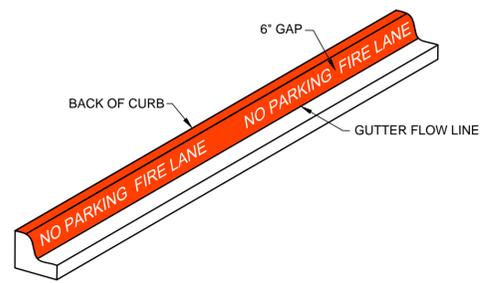
B5 HANDICAP RAMP
NO SCALE



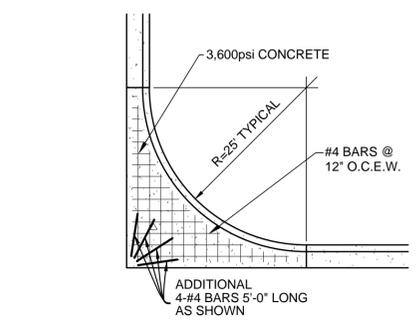
A1 ASPHALT SECTION
NO SCALE



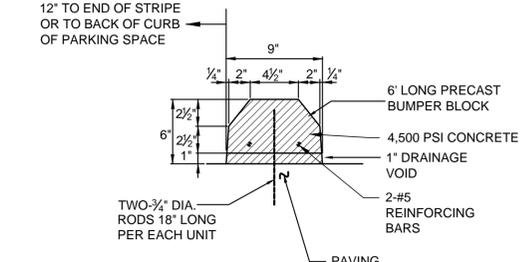
A2 CONCRETE PAVING SECTION
NO SCALE



A3 FIRE LANE MARKING
NO SCALE



A4 CONCRETE FILLET
NO SCALE



A5 PARKING BLOCK
NO SCALE



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804 N. Fort Worth St.
Midland, Texas 79701

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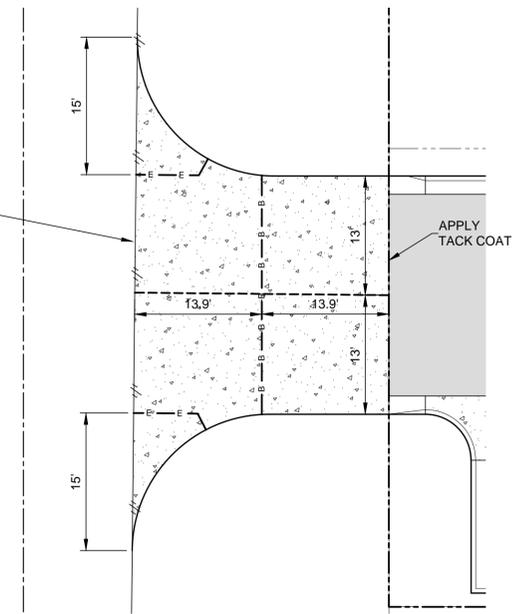
CLIENT
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804 N. Fort Worth St.
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City Of Midland
Details

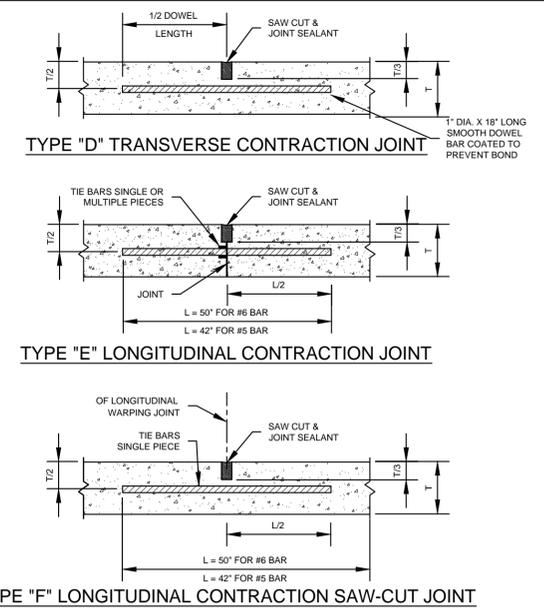
CS502



SAWCUT NEAT VERTICAL FACE ALONG EXISTING HMAC EDGE, APPLY TACK COAT TO CONCRETE SURFACE ADJACENT TO HMAC. - SEE DETAIL D3/CS501

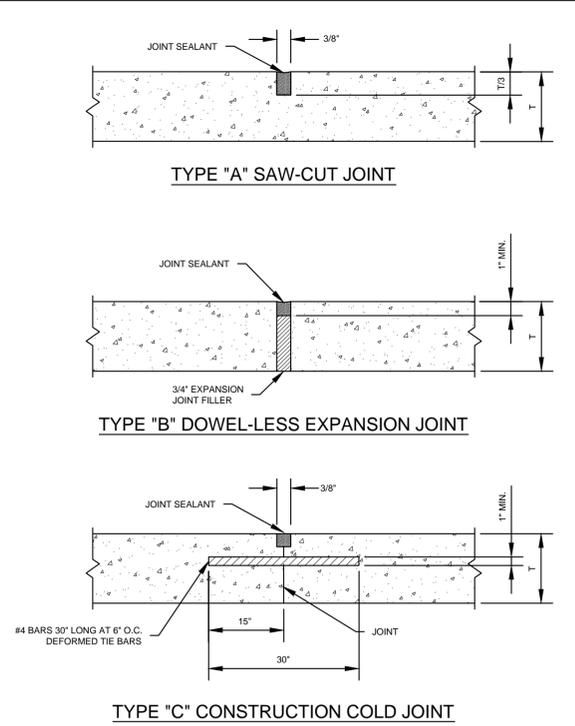
- LEGEND**
- B -B- EXPANSION JOINT, TYPE 'B' SEE JOINTING DETAILS 234A THIS SHEET
 - - - SAWED CONTRACTION JOINT, TYPE 'A' SEE JOINTING DETAILS 234A THIS SHEET

C4 JOINTING FOR DRIVEWAY IN CITY ROW
SCALE: 1"=10'

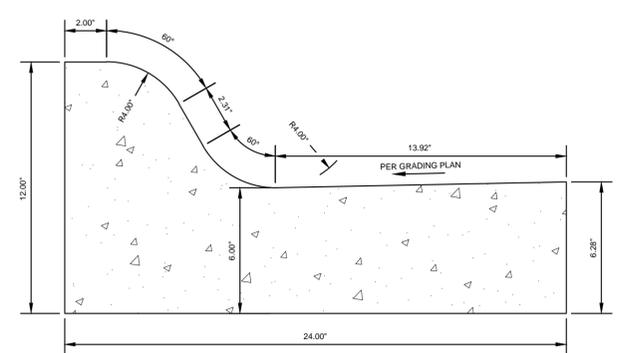


- NOTES:**
- JOINTING, DOWEL, AND TIE BAR DESIGN REQUIREMENTS ARE SUBJECT TO CHANGE FOR ARTERIAL OR HIGHER CLASSIFICATION ROADS IF DEEMED NECESSARY BY THE CITY ENGINEER.
 - TYPICAL CONCRETE PAVEMENT JOINT SPACING IS TO BE NO LESS THAN 10' X 10' AND NO MORE THAN 15' X 15'.
 - DOWELS ARE TO BE SPACED AT 12" INTERVALS WITH MINIMUM 18" SEPARATION FROM PARALLEL JOINTS OR EDGES OF PAVEMENT.
 - TIE BARS ARE TO BE SET AT 24" INTERVALS WITH MINIMUM 18" SEPARATION FROM PARALLEL JOINTS OR EDGES OF PAVEMENT.
 - ALL JOINT SEALANT TO BE TxDOT DMS-6310 SL-2 OR APPROVED EQUAL.
 - MATERIALS AND CONSTRUCTION METHODS TO CONFORM TO CITY OF MIDLAND STANDARDS AND SPECIFICATIONS.
 - CONSTRUCT AS SHOWN UNLESS OTHERWISE APPROVED IN WRITING BY THE CITY ENGINEER.

DRAWN: DPM	CHECKED: JCF	APPROVED: MCC
EFFECTIVE DATE: 10/01/2018	SCALE: NTS	DETAIL: 234(B)



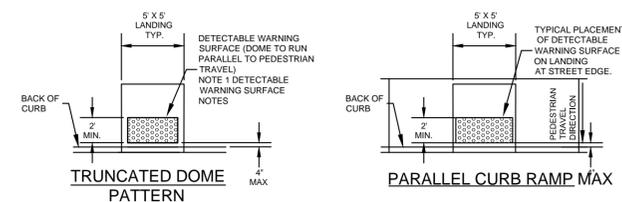
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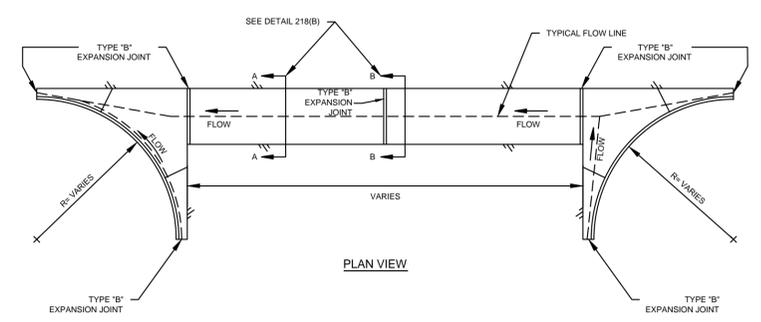
- NOTES:**
- CONCRETE TO BE CITY OF MIDLAND CLASS "C", 3600 PSI. USE FIBER REINFORCED CONCRETE PAVEMENT THROUGHOUT.
 - SEAL CONCRETE JOINT AT FACE OF CURB WHEN ADJACENT TO CONCRETE PAVEMENT AND NOT INTEGRAL WITH THAT PAVEMENT.
 - MATERIALS AND CONSTRUCTION METHODS TO CONFORM TO CITY OF MIDLAND STANDARDS AND SPECIFICATIONS.
 - CONSTRUCT AS SHOWN UNLESS OTHERWISE APPROVED IN WRITING BY THE CITY ENGINEER.

DRAWN: DPM	EFFECTIVE DATE: 10/01/2018	SCALE: NTS	DETAIL: 205
CHECKED: JCF	TYPE A STANDARD CURB AND GUTTER		MIDLAND Engineering Services
APPROVED: MCC			

- DETECTABLE WARNING SURFACE NOTES:**
- DETECTABLE WARNING SURFACE SUCH AS ARMOR-TILE ADA SOUND AMPLIFYING DETECTABLE/TACTILE WARNING SURFACE TILE OR EQUAL AND APPROVED BY THE ENGINEER AS MEETING ALL REQUIREMENTS OF ASTM C-936, C-933.
 - CURB RAMPS MUST CONTAIN A DETECTABLE WARNING SURFACE THAT CONSISTS OF RAISED TRUNCATED DOMES COMPLYING WITH SECTION 7.05 DETACHABLE WARNINGS OF THE TEXAS ACCESSIBILITY STANDARDS (TAS). THE SURFACE MUST CONTRAST VISUALLY WITH ADJOINING SURFACES, INCLUDING SIDE FLARES. FURNISH DARK BROWN OR DARK RED DETECTABLE WARNING SURFACE ADJACENT TO UNCOLORED CONCRETE UNLESS SPECIFIED ELSEWHERE IN THE PLANS.
 - DETECTABLE WARNING SURFACES MUST BE SLIP RESISTANT AND NOT ALLOW WATER TO ACCUMULATE.
 - ALIGN TRUNCATED DOMES IN THE DIRECTION OF PEDESTRIAN TRAVEL WHEN ENTERING THE STREET.
 - SHADED AREAS INDICATE THE APPROXIMATE LOCATION FOR THE DETECTABLE WARNING SURFACE FOR EACH CURB RAMP TYPE.
 - DETECTABLE WARNING SURFACES SHALL BE A MINIMUM OF 24" IN DEPTH IN THE DIRECTION OF PEDESTRIAN TRAVEL.
 - DETECTABLE WARNING SURFACES SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE IS A MINIMUM OF 6" AND A MAXIMUM OF 10" FROM THE EXTENSION OF THE FACE OF CURB. DETECTABLE WARNING SURFACES MAY BE CURVED ALONG THE CORNER RADIUS.
 - SINGLE TILE PLATES COLONIAL RED COLOR.
- GENERAL NOTES:**
- CONCRETE TO BE CITY OF MIDLAND CLASS "A" WITH A MINIMUM 28 DAY COMPRESSION STRENGTH OF 3000 PSI. USE FIBER REINFORCED CONCRETE THROUGHOUT.
 - MATERIALS AND CONSTRUCTION METHODS TO CONFORM TO THE CITY OF MIDLAND STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE DIRECTED BY ADA STANDARDS AND RESOURCES.



DRAWN: DPM	EFFECTIVE DATE: 10/01/2018	SCALE: NTS	DETAIL: 233
CHECKED: JCF	DETECTABLE WARNING SURFACE		MIDLAND Engineering Services
APPROVED: MCC			



- NOTES:**
- CONCRETE TO BE CITY OF MIDLAND CLASS "C", 3600 PSI. USE FIBER REINFORCED CONCRETE PAVEMENT THROUGHOUT.
 - CONCRETE FILLET AREA TO BE PLACED WITH INTEGRAL CURB.
 - SEAL ALL CONCRETE JOINTS.
 - MATERIALS AND CONSTRUCTION METHODS TO CONFORM TO CITY OF MIDLAND STANDARDS AND SPECIFICATIONS.
 - CONSTRUCT AS SHOWN UNLESS OTHERWISE APPROVED IN WRITING BY THE CITY ENGINEER.

DRAWN: DPM	EFFECTIVE DATE: 10/01/2018	SCALE: NTS	DETAIL: 218(A)
CHECKED: JCF	FILLET AND VALLEY GUTTER		MIDLAND Engineering Services
APPROVED: MCC			

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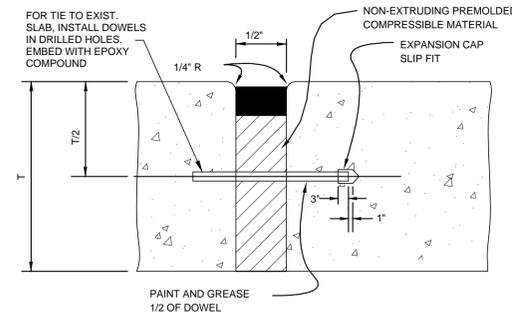


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Midland County
 804 N. Fort Worth St.
 Midland, Texas 79701

PROJECT NO.
 40263.22

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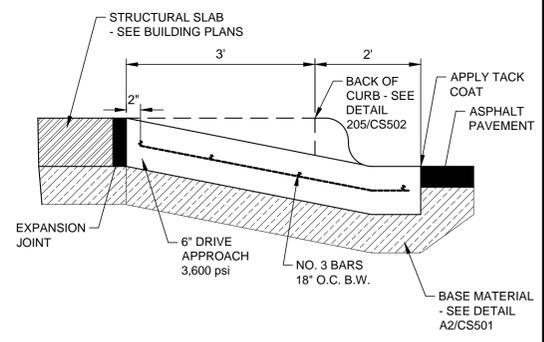
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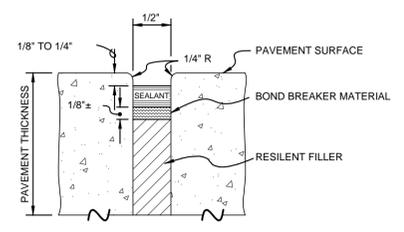
DOWELED EXPANSION JOINTS

PRIVATE JOINTING NOTES

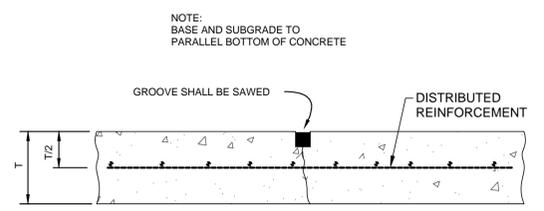
- A. INSTALL EXPANSION JOINT AT BACK OF CURB BETWEEN ADJACENT CONCRETE SIDEWALK AND BUILDING SLAB. FOR ISOLATION PURPOSES.
- B. CURB & GUTTER, FILLETS AND VALLEYS ON PRIVATE PROPERTY MAY BE POURED MONOLITHICALLY WITH ADJACENT SLABS OR POURED SEPARATE. IF POURED SEPARATE, INSTALL EXPANSION MATERIAL BETWEEN CURBS AND PAVEMENT.
- C. CONSTRUCTION JOINTS SHALL BE DOWELED.
- D. CONTRACTION JOINTS MAY HAVE DISTRIBUTED REINFORCEMENT EXTENDED CONTINUOUSLY THROUGH THE JOINT.
- E. DOWELS SHALL BE SMOOTH STEEL, 14" LONG, 3/4" DIAMETER, PLACED AT 12" ON CENTER.
- F. JOINTING LENGTH SHALL NOT BE LESS THAN 75% IN THE PERPENDICULAR DIRECTION.
- G. INSTALL CONSTRUCTION JOINT WHEN BEGINNING A NEW POUR ABUTTING ADJACENT PAVEMENT.
- H. EXPANSION JOINT EVERY 30' MAXIMUM ON 3' SIDEWALK.
- I. ALIGN SIDEWALK JOINTS TO CURB JOINTING.
- J. APPLY TACK COAT TO CONCRETE SURFACE ADJACENT TO HMAC PAVEMENT.



B5 SECTION A-A
 NO SCALE



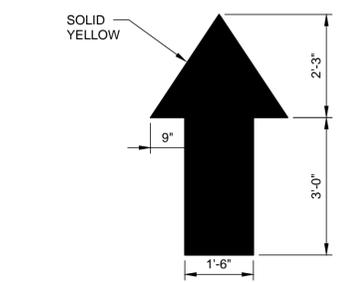
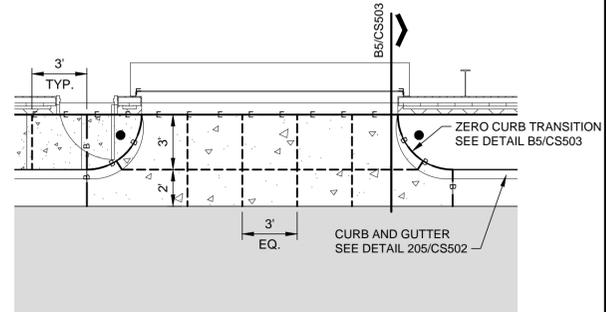
EXPANSION JOINTS



CONTRACTION JOINTS

LEGEND

- E-E- DOWELED EXPANSION JOINT SEE PRIVATE JOINTING DETAILS C1 THIS SHEET
- - - SAWED CONTRACTION JOINT SEE PRIVATE JOINTING DETAILS C1 THIS SHEET
- B-B- EXPANSION JOINT SEE PRIVATE JOINTING DETAILS C1 THIS SHEET



A1 ARROW STRIPE
 NOT TO SCALE

A2 PRIVATE JOINTING DETAILS
 SCALE: 1"=5'

A4 PRIVATE DRIVEWAY DETAIL
 SCALE: 1"=5'



4/24/2023

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Facilities Warehouse Midland County



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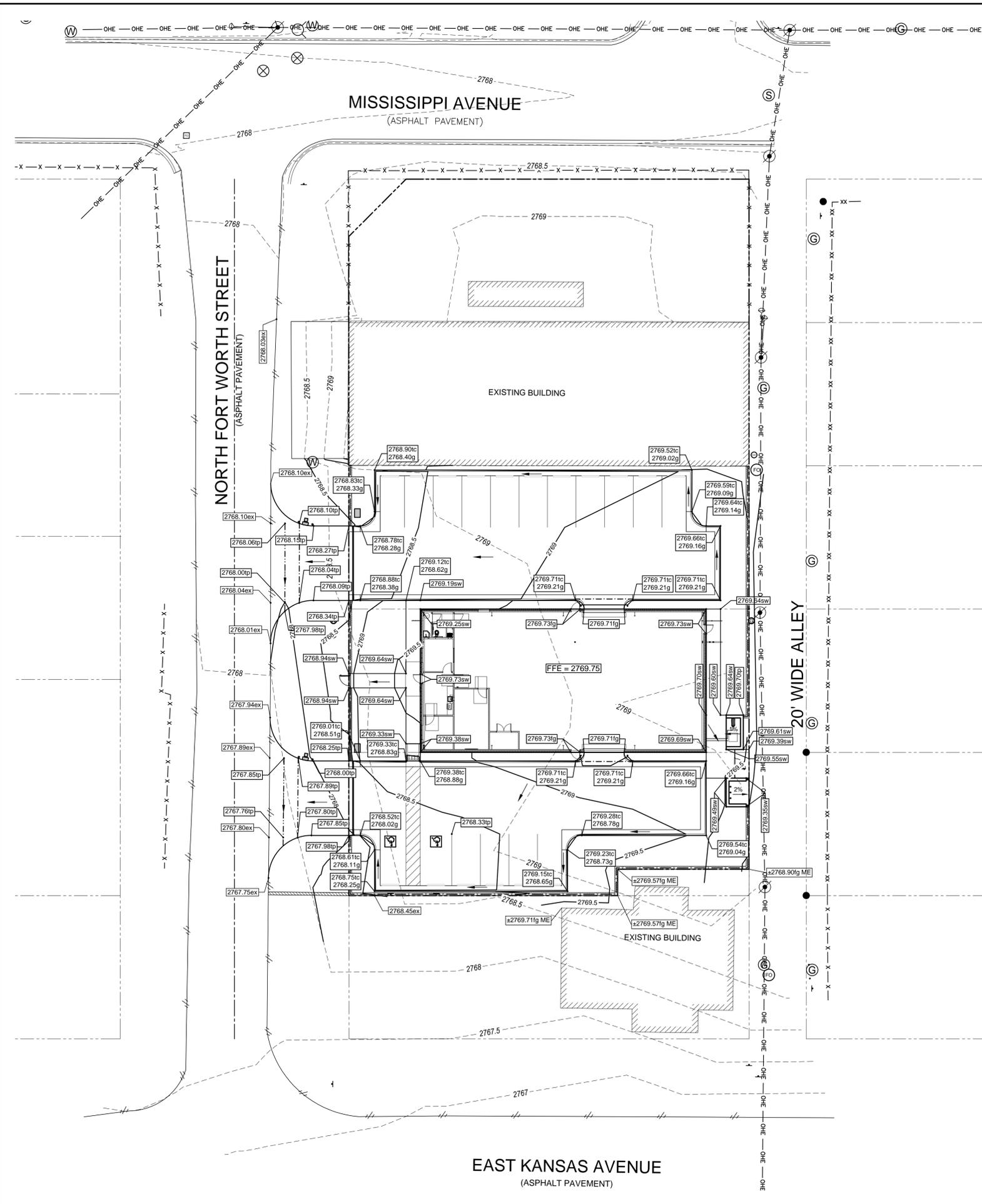
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DATE DESCRIPTION

Grading Plan

CG101

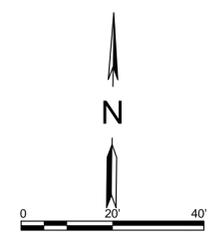


GRADING NOTES

- A. THE EXISTING CONTOURS AND SURFACE ELEVATIONS INDICATED ON THESE PLANS HAVE BEEN LOCATED FROM REFERENCE INFORMATION SUPPLIED BY OTHERS AND SURFACE LOCATIONS SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY, BOTH HORIZONTALLY AND VERTICALLY, THE LOCATIONS OF ALL EXISTING HARD SURFACE PRIOR TO CONSTRUCTION, AND TO NOTIFY THE ENGINEER PROMPTLY OF ANY CONFLICTS WITH EXISTING SURFACE ELEVATIONS.
- B. MAXIMUM 2% SLOPE IN ALL DIRECTIONS IN ACCESSIBLE PARKING AREAS.
- C. MAXIMUM 5% LONGITUDINAL SLOPE AND MAXIMUM 2% CROSS SLOPE FOR ALL ACCESSIBLE SIDEWALKS.
- D. EARTHWORK AND BACKFILL WITHIN THE LIMITS OF EXISTING AND PROPOSED PAVEMENT SHALL BE COMPACTED IN MAXIMUM 8" LIFTS TO 95% MODIFIED PROCTOR (ASTM D-1557), WITHIN 2% OF OPTIMUM MOISTURE CONTENT, PRIOR TO PLACEMENT OF IMPROVEMENTS.
- E. MAINTAIN POSITIVE DRAINAGE AWAY FROM STRUCTURES AT ALL TIMES DURING CONSTRUCTION ACTIVITIES.
- F. USE CAUTION WHEN GRADING OVER EXISTING UTILITIES. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- G. PROVIDE SMOOTH TRANSITION BETWEEN ADJACENT EXISTING GRADES AND NEW GRADES. SLOPE GRADES TO PREVENT PONDING.

LEGEND

- PROPERTY LINE
- - - EXISTING CONTOURS (0.5' INTERVAL)
- NEW CONTOURS (0.5' INTERVAL)
- DIRECTION OF FLOW
- - - SWALE
- - - RIDGELINE
- - - GRADE BREAK
- [2812.21g] NEW SPOT ELEVATION
- fg = finish grade
- g = gutter
- ex = existing
- sw = sidewalk
- tc = top of curb



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PROJECT NO.
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#	DATE	PERMIT SET	DESCRIPTION
-	04/24/2023	Permit Set	

City Of Midland
Utility Details
CU501

TEE BLOCKING

DESIGN 180 PSI LINE PRESSURE
SOIL BEARING CAP 2KSF

"T" RUN DIA.	STEM DIA.	BLOCKING DIMENSIONS		
		A	B	C
TEE				
4"	ALL	11"	1'-0"	1'-0"
6"	ALL	1'-2"	1'-7"	1'-0"
8"	ALL	1'-4"	2'-2"	2'-2"
10"	ALL	1'-8"	2'-8"	2'-8"
1'-0"	THRU 6"	1'-10"	1'-10"	1'-8"
1'-0"	OVER 6"	1'-10"	3'-2"	3'-2"
1'-2"	THRU 8"	2'-2"	2'-2"	1'-11"
1'-2"	OVER 8"	2'-2"	3'-8"	3'-8"
1'-4"	THRU 8"	2'-4"	2'-4"	2'-2"
1'-4"	OVER 8"	2'-4"	4'-3"	4'-3"

C - VERTICAL DEPTH OF CONCRETE BEARING ON UNDISTURBED EARTH

NOTE:

- FORM ALL CONCRETE THRUST BLOCKING. DO NOT PLACE UN-FORMED THRUST BLOCKING.
- BLOCKING FOR TEES LARGER THAN 16" RUN TO BE SHOWN ON THE PLANS.
- ALL THRUST BLOCKING TO BE CLASS "A" CONCRETE, 3000 PSI, AND TO BE PLACED AGAINST UNDISTURBED EARTH. USE FIBER REINFORCEMENT THROUGHOUT.
- FITTING TO BE POLY WRAPPED BEFORE BLOCKING IS PLACED.
- MATERIALS AND CONSTRUCTION METHODS TO CONFORM TO CITY OF MIDLAND STANDARDS AND SPECIFICATIONS.
- CONSTRUCT AS SHOWN UNLESS OTHERWISE APPROVED IN WRITING BY THE CITY ENGINEER.

DRAWN: DPM	EFFECTIVE DATE: 10/01/2018	SCALE: NTS	DETAIL:
CHECKED: JCF	BLOCKING FOR TEE		615
APPROVED: MCC			

NOTES:

- EMBEDMENT AND BACKFILL OF SERVICE LINE PIPE TO COMPLY WITH DETAILS 310(A) AND 310(B) WITHIN RIGHT-OF-WAY.
- END OF SERVICE LINE MARKER TO BE PLACED 2' FROM END OF SERVICE LINE AND BE EITHER 2" DIAMETER OR LARGER PVC OR FLEXIBLE POLYETHYLENE PIPE.
- MATERIALS AND CONSTRUCTION METHODS TO CONFORM TO CITY OF MIDLAND STANDARDS AND SPECIFICATIONS.
- CONSTRUCT AS SHOWN UNLESS OTHERWISE APPROVED IN WRITING BY THE CITY ENGINEER.

DRAWN: DPM	EFFECTIVE DATE: 10/01/2018	SCALE: NTS	DETAIL:
CHECKED: JCF	4" AND 6" WASTEWATER SERVICE LATERAL TAP OPTION 2		508
APPROVED: MCC			

TYPICAL FITTING RESTRAINT CONFIGURATIONS

CROSS FITTING RESTRAINTS

TEE FITTING RESTRAINTS

FIRE HYDRANT RESTRAINTS

NOTES:

- ALL MECHANICAL JOINT (MJ) FITTINGS TO BE RESTRAINED.
- ALL FLANGES (FL) TO BE ON THE BRANCH SIDE OF TEE FITTINGS.
- MATERIALS AND CONSTRUCTION METHODS TO CONFORM TO CITY OF MIDLAND STANDARDS AND SPECIFICATIONS.
- CONSTRUCT AS SHOWN UNLESS OTHERWISE APPROVED IN WRITING BY THE CITY ENGINEER.

DRAWN: DPM	EFFECTIVE DATE: 10/01/2018	SCALE: NTS	DETAIL:
CHECKED: JCF	TYPICAL FITTING RESTRAINT CONFIGURATIONS		601
APPROVED: MCC			

CAP BLOCKING

PIPE OD A	BLOCKING DIMENSIONS	
	B	C
4"	1'-0"	1'-0"
6"	1'-7"	1'-0"
8"	2'-2"	2'-2"
10"	2'-8"	2'-8"
12"	3'-2"	3'-2"
14"	3'-8"	3'-8"
16"	4'-3"	4'-3"

C - VERTICAL DEPTH OF CONCRETE BEARING ON UNDISTURBED EARTH

NOTES:

- CAP ALL WATER MAIN STUB OUTS.
- FORM ALL CONCRETE THRUST BLOCKING. DO NOT PLACE UN-FORMED THRUST BLOCKING.
- ALL THRUST BLOCKING TO BE CLASS "A" CONCRETE, 3000 PSI, AND TO BE PLACED AGAINST UNDISTURBED EARTH. USE FIBER REINFORCEMENT THROUGHOUT.
- FITTINGS TO BE POLY WRAPPED BEFORE BLOCKING IS PLACED.
- THRUST BLOCKING DESIGN TO BE PROVIDED IN CONSTRUCTION DRAWINGS FOR PIPES LARGER THAN 16" DIAMETER.
- MATERIALS AND CONSTRUCTION METHODS TO CONFORM TO CITY OF MIDLAND STANDARDS AND SPECIFICATIONS.
- CONSTRUCT AS SHOWN UNLESS OTHERWISE APPROVED IN WRITING BY THE CITY ENGINEER.

DRAWN: DPM	EFFECTIVE DATE: 10/01/2018	SCALE: NTS	DETAIL:
CHECKED: JCF	BLOCKING FOR CAP		617
APPROVED: MCC			

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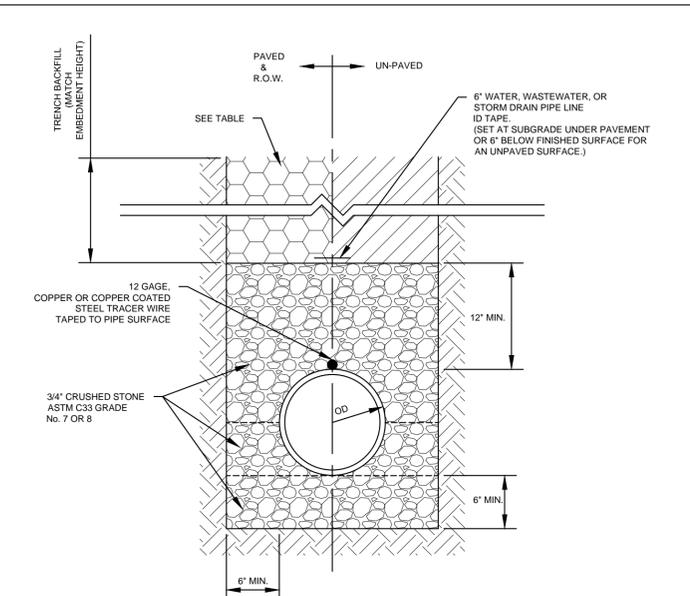
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40263.22

04/24/2023 Permit Set
DATE DESCRIPTION

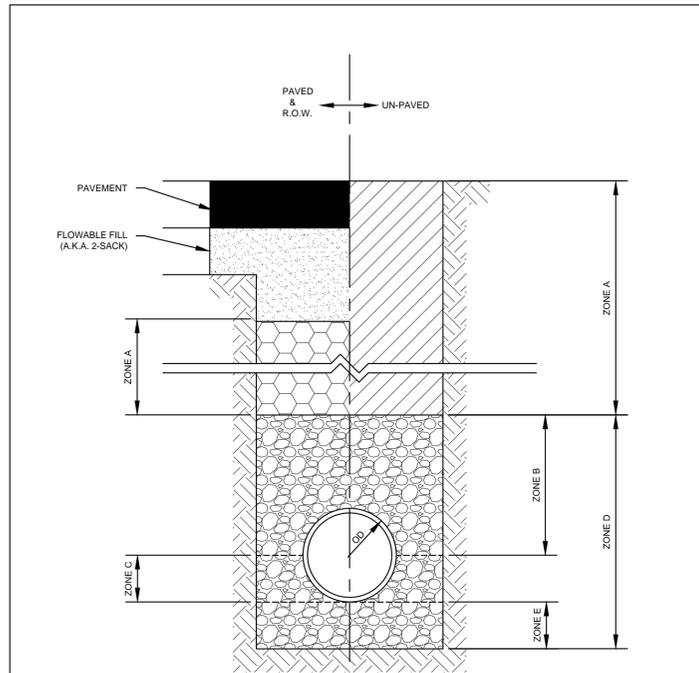
City Of Midland
Utility Details

CU502



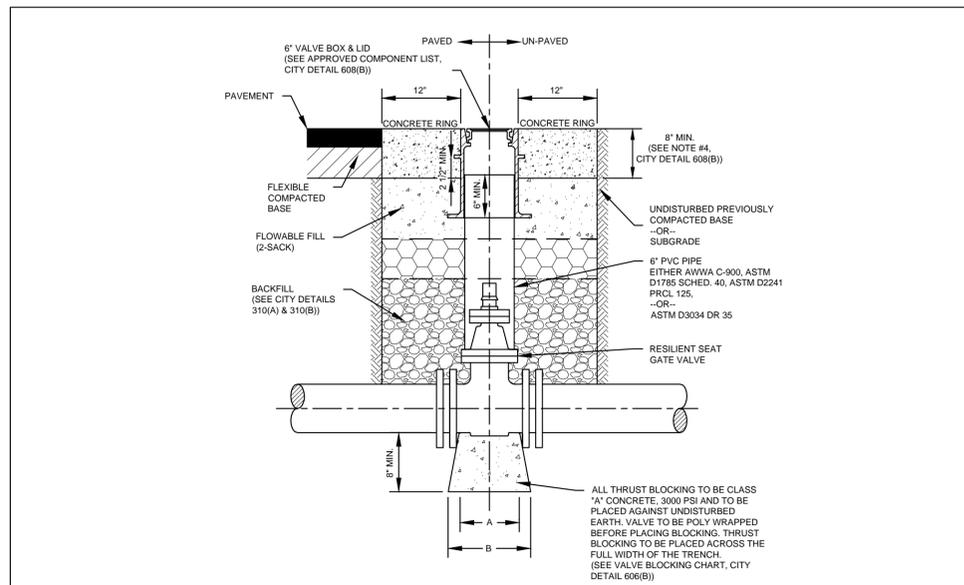
- TRENCH BACKFILL NOTES:**
1. APPLIES TO ALL PIPE TYPES. (DUCTILE IRON, PVC, ETC.)
 2. UTILIZE SELECT FILL BACKFILL BENEATH ALL PAVED SURFACES. NATIVE MATERIAL BACKFILL CAN ONLY BE USER FOR UNPAVED TRENCH CONDITIONS IF BACKFILL MATERIAL IS 30LL AND 15 PL.
 3. NATIVE MATERIAL TO BE EXISTING EXCAVATED SOIL FROM TRENCH WITH ALL MATERIAL BROKEN DOWN 2".
 4. MOISTURE CONDITION ALL BACKFILL MATERIAL PRIOR TO PLACING IN TRENCH.
 5. PLACE TRENCH BACKFILL MATERIAL IN MAXIMUM 12" LOOSE LIFTS AND COMPACT TO MAXIMUM 8" COMPACTED LIFTS.
 6. REFER TO CITY DETAILS 311 AND 312 FOR TRENCH PAVEMENT REPLACEMENT REQUIREMENTS.
 7. PLACE LAYERS B, C, AND E FOUND ON CITY DETAIL 310(B) AS SEPARATE LAYERS.
 8. MATERIALS AND CONSTRUCTION METHODS TO CONFORM TO CITY OF MIDLAND STANDARDS AND SPECIFICATIONS.
 9. CONSTRUCT AS SHOWN UNLESS OTHERWISE APPROVED IN WRITING BY THE CITY ENGINEER.

DRAWN: DPM	CHECKED: JCF	APPROVED: MCC
EFFECTIVE DATE: 10/01/2018	SCALE: NTS	DETAIL: 310(A)



- TRENCH ZONES:**
- ZONE A: TRENCH BACKFILL
 - ZONE B: PIPE BACKFILL
 - ZONE C: HAUNCHING
 - ZONE D: PIPE EMBEDMENT
 - ZONE E: BEDDING

DRAWN: DPM	CHECKED: JCF	APPROVED: MCC
EFFECTIVE DATE: 10/01/2018	SCALE: NTS	DETAIL: 310(B)



DRAWN: DPM	EFFECTIVE DATE: 10/01/2018	SCALE: NTS	DETAIL: 608(A)
CHECKED: JCF	TYPICAL VALVE AND VALVE BOX		
APPROVED: MCC			

APPROVED COMPONENT LIST			
NO.	VALVES	VALVE COVERS	VALVE BOX
1	MUELLER 2360 MJ	MUELLER 2360 FL X FL	BASS & HAYS STANDARD 390-1 "SHORTY"
2	M & H 4067 MJ	M & H 4067-0	OR APPROVED EQUAL
3	CLOW 2838 MJ	CLOW 2840 FL X FL	
4	OR APPROVED EQUAL	OR APPROVED EQUAL	

VALVE BLOCKING CHART		
PIPE SIZE	A	B
4"	5.0'	10.5'
6"	6.5'	1'-0"
8"	6.5'	1'-0"
10"	8.0'	1'-1.0"
12"	8.5'	1'-2.0"

- NOTES:**
1. FOR VALVES ON WATER MAIN PIPES LARGER THAN 12" SEE CITY DETAIL 609.
 2. SETTING VALVE BOX TO GRADE MAY REQUIRE ADDING PVC PIPE. IF ADDITIONAL PIPE IS REQUIRED, USE BELL SECTION WITH GASKET AND SET BELL DOWN OVER EXISTING PIPE RISER. A GASKETED SELF-CENTERING COLLAR MAY BE USED IN LIEU OF THE BELL SECTION.
 3. CONCRETE RING TO BE CITY OF MIDLAND CLASS "C", 3600 PSI, UNLESS OTHERWISE NOTED.
 4. USE FIBER REINFORCEMENT FOR ALL CONCRETE, WHETHER PAVEMENT OR THRUST BLOCKING.
 5. 12" MINIMUM FOR CONCRETE RING IN AN ARTERIAL ROADWAY.
 6. FLOWABLE FILL 2-SACK (2 SACK = 188 LBS/CY, PORTLAND CEMENT) REQUIRED BENEATH ALL CONCRETE RINGS.
 7. FLOWABLE FILL 2-SACK (2 SACK = 188 LBS/CY, PORTLAND CEMENT) REQUIRED FOR ALL OVER EXCAVATION BACKFILL.
 8. MATERIALS AND CONSTRUCTION METHODS TO CONFORM TO CITY OF MIDLAND STANDARDS AND SPECIFICATIONS.
 9. CONSTRUCT AS SHOWN UNLESS OTHERWISE APPROVED IN WRITING BY THE CITY ENGINEER.

DRAWN: DPM	EFFECTIVE DATE: 10/01/2018	SCALE: NTS	DETAIL: 608(B)
CHECKED: JCF	TYPICAL VALVE AND VALVE BOX DETAILS		
APPROVED: MCC			

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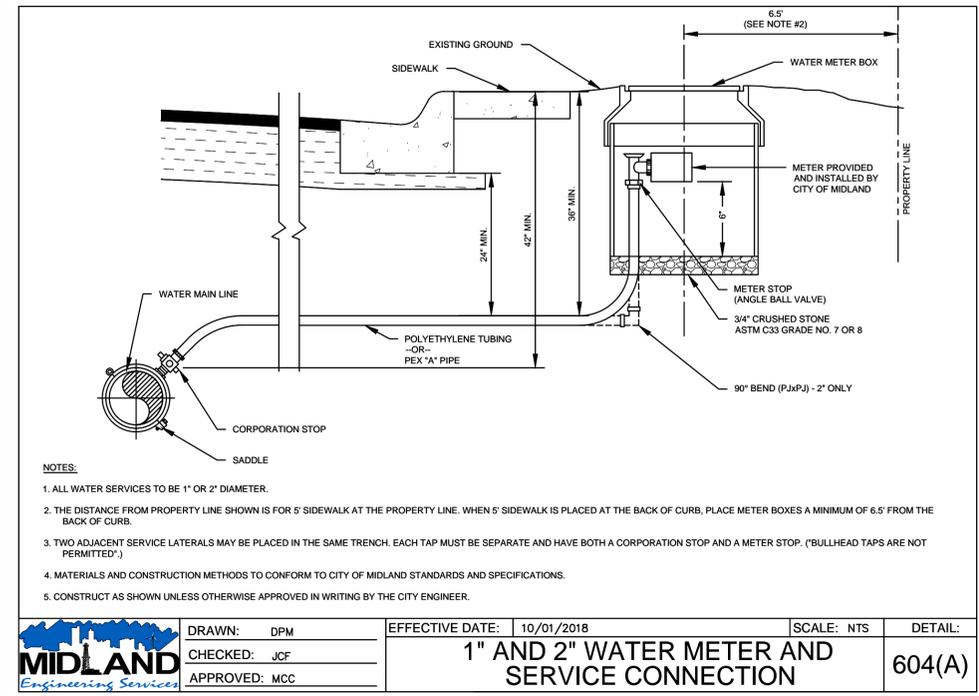
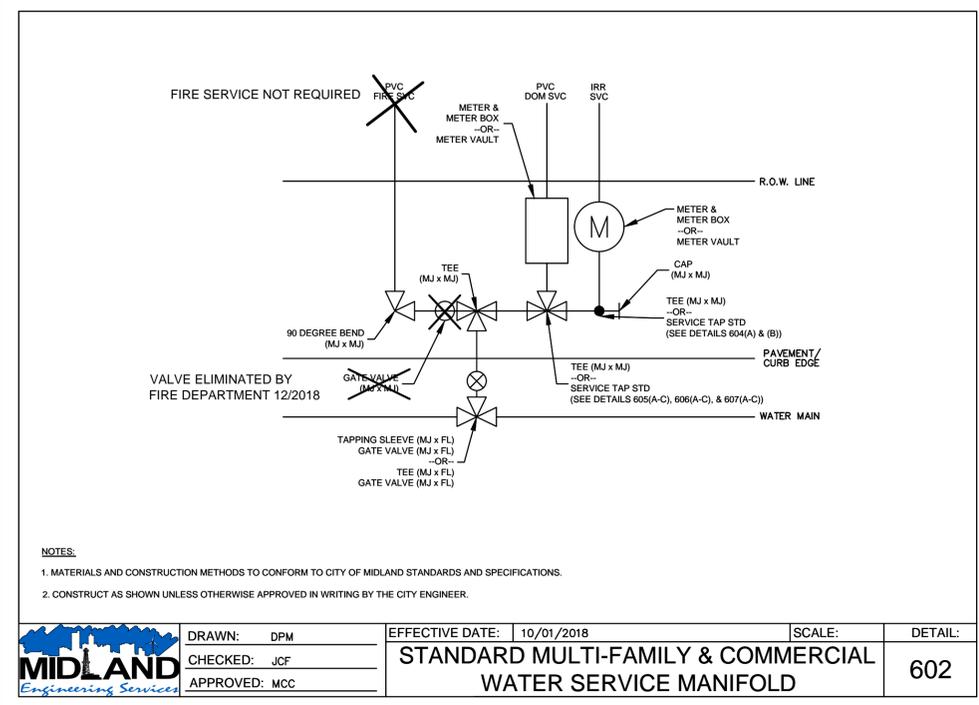
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DATE DESCRIPTION

City Of Midland
Utility Details

CU503



APPROVED COMPONENT LIST	
<p>1" WATER METER SERVICE</p> <p>SADDLE OPTION 1: DUCTILE IRON W/DUAL BAND CC THREAD STEEL STRAP</p> <ol style="list-style-type: none"> FORD FCD202 SADDLE MUELLER DR 2 S SERIES A.Y. MCDONALD SERIES 4855A OR APPROVED EQUAL <p>SADDLE OPTION 2: BRASS W/DUAL BAND CC THREAD STEEL STRAP</p> <ol style="list-style-type: none"> FORD 202BSD SADDLE MUELLER BR 2 S SERIES A.Y. MCDONALD SERIES 3885 OR APPROVED EQUAL <p>CORPORATION STOP</p> <ol style="list-style-type: none"> FORD FB1000-4-G-NL MUELLER B-2500BN A.Y. MCDONALD SERIES 74701B-22 1 OR APPROVED EQUAL <p>CURB STOP METER VALVE</p> <ol style="list-style-type: none"> FORD BA43-444W-G-NL MUELLER B-25172N A.Y. MCDONALD SERIES 74602B-22 1 OR APPROVED EQUAL <p>WATER METER BOX</p> <ol style="list-style-type: none"> EAST JORDAN 32197099A02 OR APPROVED EQUAL <p>SERVICE LINE PIPE</p> <ol style="list-style-type: none"> ASTM D-2737 POLYETHYLENE TUBING MUNICI PEX 'A' PIPE OR APPROVED EQUAL 	<p>2" WATER METER SERVICE</p> <p>SADDLE OPTION 1: DUCTILE IRON W/DUAL BAND CC THREAD STEEL STRAP</p> <ol style="list-style-type: none"> FORD FCD202 SADDLE MUELLER DR 2 S SERIES A.Y. MCDONALD SERIES 4855A OR APPROVED EQUAL <p>SADDLE OPTION 2: BRASS W/DUAL BAND CC THREAD STEEL STRAP</p> <ol style="list-style-type: none"> FORD 202BSD SADDLE MUELLER BR 2 S SERIES A.Y. MCDONALD SERIES 3885 OR APPROVED EQUAL <p>CORPORATION STOP</p> <ol style="list-style-type: none"> FORD FB1000-7-G-NL MUELLER B-2500BN A.Y. MCDONALD SERIES 74701B-22 2 OR APPROVED EQUAL <p>CURB STOP METER VALVE</p> <ol style="list-style-type: none"> FORD BFA43-777W-G-NL MUELLER B-25172N A.Y. MCDONALD SERIES 74602B-22 2 OR APPROVED EQUAL <p>WATER METER BOX</p> <ol style="list-style-type: none"> EAST JORDAN 32244000A01 OR APPROVED EQUAL <p>SERVICE LINE PIPE</p> <ol style="list-style-type: none"> ASTM D-2737 POLYETHYLENE TUBING MUNICI PEX 'A' PIPE OR APPROVED EQUAL

NOTES:

- ALL COMPONENTS OF ANY WATER METER SERVICE LINE MUST COME FROM THE SAME BRAND WHENEVER POSSIBLE.
- PLASTIC WRAP ALL SADDLES.
- MATERIALS AND CONSTRUCTION METHODS TO CONFORM TO CITY OF MIDLAND STANDARDS AND SPECIFICATIONS.
- CONSTRUCT AS SHOWN UNLESS OTHERWISE APPROVED IN WRITING BY THE CITY ENGINEER.

DRAWN: DPM	EFFECTIVE DATE: 10/01/2018	SCALE: NTS	DETAIL:
CHECKED: JCF	1" AND 2" WATER METER AND		604(B)
APPROVED: MCC	SERVICE CONNECTION		

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NORTH FORT WORTH

(ASPHALT PAVEMENT)

EXISTING BUILDING

111' [11 STALLS = 1 PARKING LOT TREE]

TOTAL LOT AREA
20,577.53 SF

PROPOSED
STRUCTURE
5,000.00 SF

67.5' [6 STALLS = 1 PARKING LOT TREE]

150.26' [5 STREET FRONT TREES]

2768

2" GALVANIZED PIP

6" VITRIFIED CLAY PIPE LINE (C.O.M. GIS DATA)

20' WIDE ALLEY

LANDSCAPE ORDINANCE CALCULATIONS

Existing Site	Quantity	Unit
Lot area	20,577	SF
Existing structures	0	SF
Proposed structures	5,000	SF
Total Structures	5,000	SF
Total areas minus structures	15,577	SF
Street frontage (without existing trees)	150	LF
Parking stalls	17	EA

Proposed Plans	Quantity	Unit
Minimum Landscape required	1,558	SF
Street front trees	5	EA
Parking lot trees	2	EA
Required trees	7	EA

Landscape Provided	3,620	SF
Street trees provided	5	EA
Parking lot trees provided	2	EA
Trees provided	7	EA
Additional trees provided	0	EA

Positive	Possible points	Used in design
Rainwater harvesting	10	0
Permeable weed barrier	2	2
Drip in all areas 15' or less in width	10	10
Tree quantity exceeds required (per tree)	2	2
Drought tolerant sod used	5	0
Landscape area curbed or shaped to hold water	2	2
Landscape area exceeds requirement by additional 10%	2	2
50% of plant material is water efficient (see exhibit A)	2	2
Polymer injection or other water saving technology	2	0
Negative		0
More than 20% of landscape is turf grass	-5	0
Existing tree >12" is removed	-5	0
Fescue or St. Augustine grass used	-10	0
Slope within 10' of street exceeds 20%	-5	0
Undesirable tree species used	-5	0
Total points (must equal 20 or more)		20

REFERENCE NOTES SCHEDULE

SYMBOL	LANDSCAPE ORDINANCE DESCRIPTION	QTY
	PROPOSED LANDSCAPE AREA: LANDSCAPE PROVIDED WITHIN PROPERTY LINE INCLUDED IN LANDSCAPE ORDINANCE CALCULATIONS (MINIMUM 10% OF LOT AREA)	3,620 SF
	PROPOSED LANDSCAPE AREA IN ROW: LANDSCAPE PROVIDED WITHIN ROW NOT INCLUDED IN LANDSCAPE ORDINANCE CALCULATIONS	2,448 SF

PLANT SCHEDULE

- STREET FRONT TREE
MINIMUM OF THREE-INCH CALIPER AS MEASURED 12 INCHES ABOVE GRADE. 5
- PARKING LOT TREE
MINIMUM OF THREE-INCH CALIPER AS MEASURED 12 INCHES ABOVE GRADE. 2

Parkhill



04/24/2023

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Facilities Warehouse
Midland County



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804 N. Fort Worth St.
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PROJECT NO.

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04/24/2023 Permit Set

DATE DESCRIPTION

Landscape Ordinance Calculations

L001

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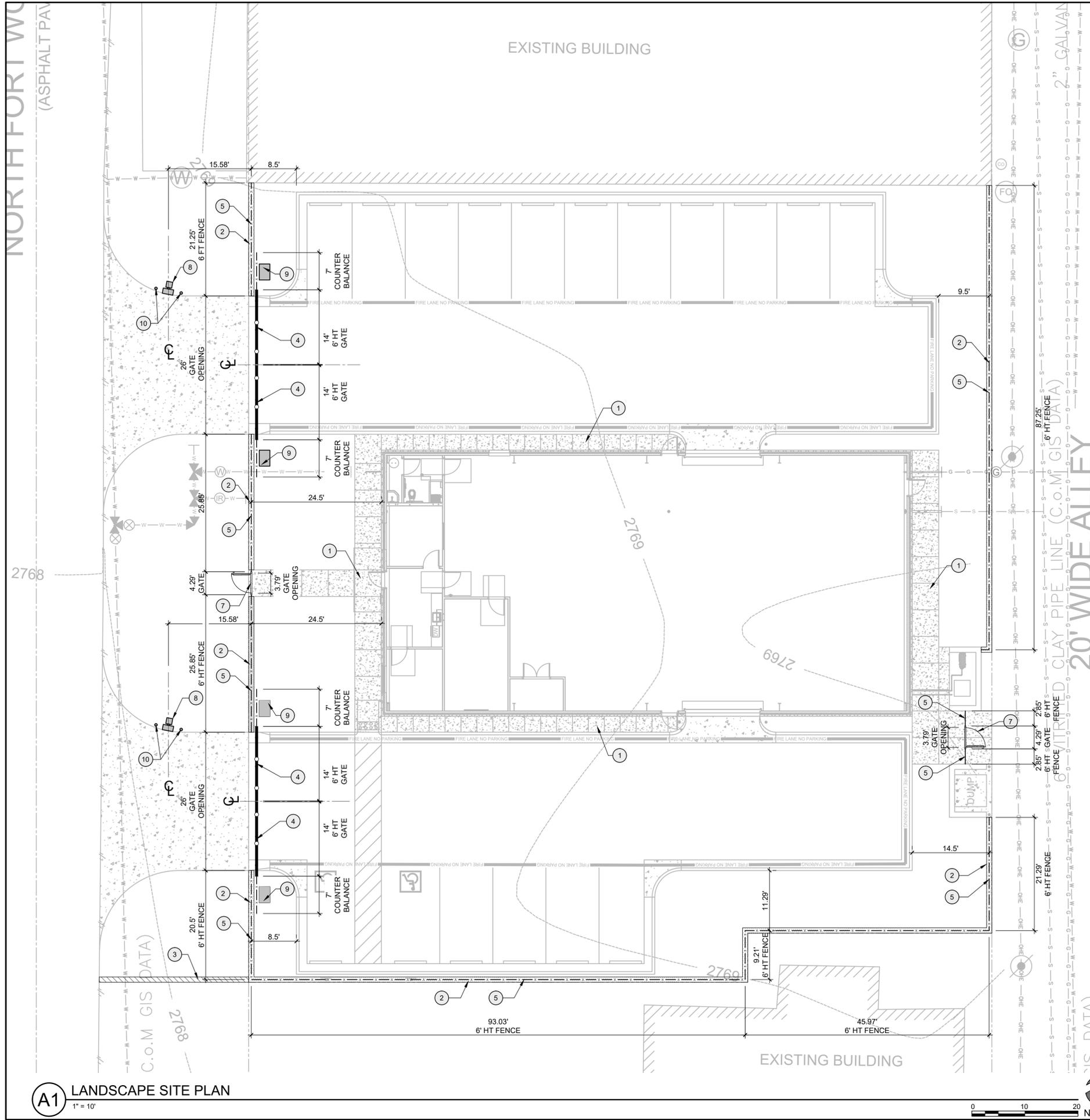
A1 LANDSCAPE ORDINANCE CALCULATIONS

1" = 10'

0 10 20



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GENERAL NOTES

A. SEE SHEET L002 FOR LANDSCAPE GENERAL NOTES, TYP

REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION	QTY	DETAIL
1	CONCRETE PEDESTRIAN PAVING, SEE CIVIL		N/A
2	MOW CURB AT FENCE: 12" WIDE BY 6" DEPTH 3000 PSI CONC W/ FIBER	351 SF	B1/L501
3	CONCRETE MOWSTRIP: 12" WIDE BY 6" DEPTH 3000 PSI CONC W/ FIBER	28 SF	B2/L501
4	CANTILEVER GATE: 6' HT, HORIZONTAL-SLIDING GATE AS SPECIFIED, POLYMER-COATED, COLOR BLACK, INSTALL WITH OPERATOR AS PER MNFR SPECIFICATIONS	56 LF	D1/L501
5	CHAIN LINK FENCE: 6' HT, POLYMER-COATED, COLOR BLACK	385 LF	C1/L501
7	EXODUS SINGLE GATE W/ PANIC HARDWARE: GATE WITH PROXIMITY CARD LOCK AND HARDWARE TO MATCH BUILDING, INSTALL ALL REQUIRED HARDWARE, WIRING, AND CONDUIT REQUIRED FOR FULL IMPLEMENTATION OF THE LOCK SYSTEM	2	B1/L502
8	GATE OPERATOR PEDESTAL: PROVIDE EQUIPMENT AS SPECIFIED, INSTALL PER MNFR SPECIFICATIONS, FIELD VERIFY EXACT LOCATION WITH OWNER, INSTALL FIRE ACCESS DEVICES AS REQUIRED BY FIRE MARSHAL		D4/L501
9	GATE OPERATOR AS SPECIFIED, FIELD VERIFY EXACT LOCATION WITH OWNER, INSTALL PER MNFR SPECIFICATIONS, PROVIDE ELEC POWER CIRCUIT AS REQUIRED, PROVIDE VEHICLE DETECTION LOOP/DEVICE AT ALL EXITS		D1/L501
10	BOLLARD: 54" HT, 6" DIA, STEEL PIPE, SEE CIVIL		N/A

A1 LANDSCAPE SITE PLAN
1" = 10'



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Landscape Planting Plan

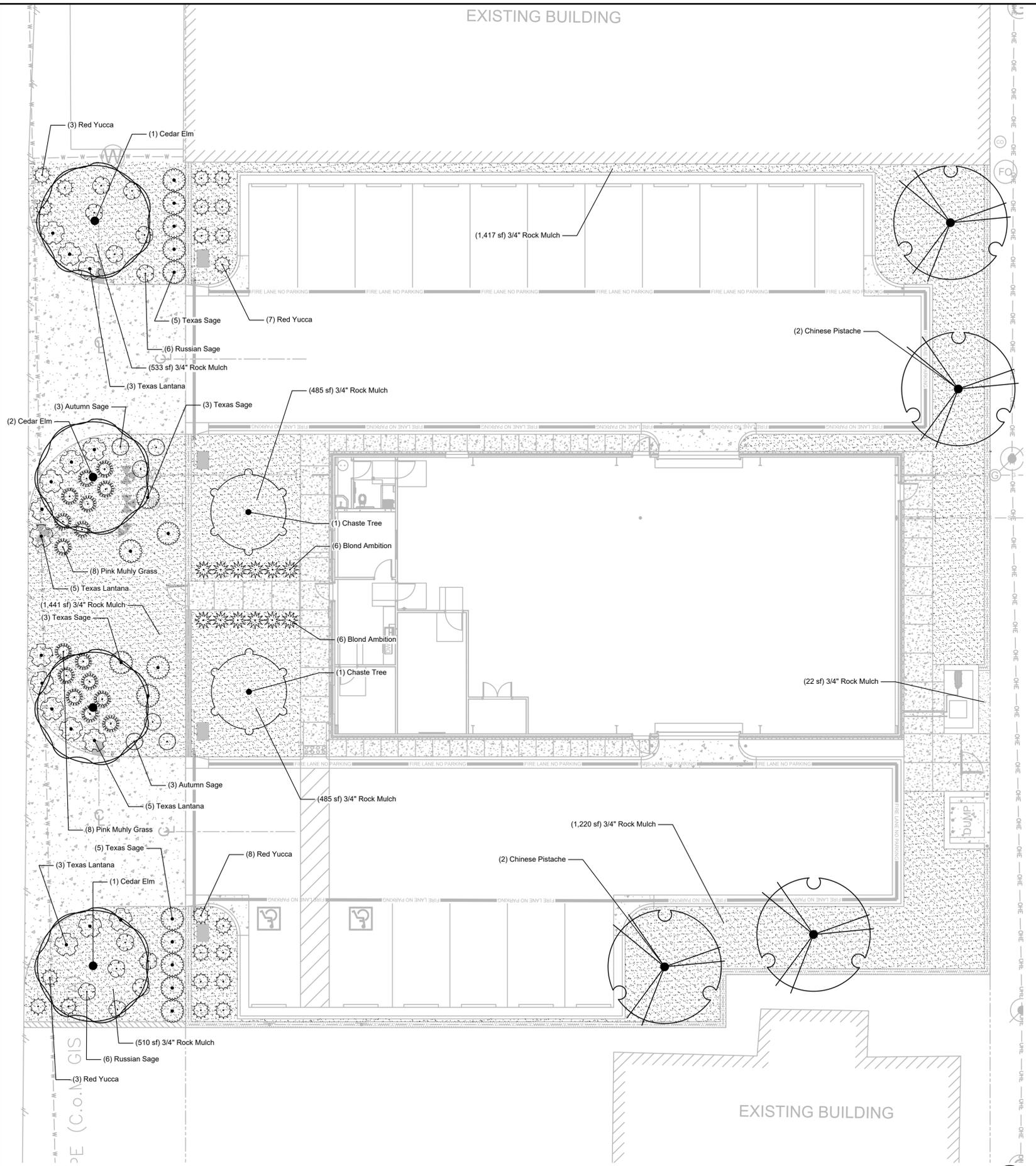
L103

GENERAL NOTES

A. SEE SHEET L002 FOR LANDSCAPE GENERAL NOTES, TYP

PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONTAINER	HEIGHT	SPREAD	CALIPER	DETAIL
	PIS CHI	4	PISTACIA CHINENSIS CHINESE PISTACHE	#45	10-12 FT	4-6 FT	3"	A1/L504
	ULM CRA	4	ULMUS CRASSIFOLIA CEDAR ELM	#45	12-14 FT	4-6 FT	3"	A1/L504
	VIT CHA	2	VITEX AGNUS-CASTUS CHASTE TREE	#15	4-6 FT	3-4 FT	2"	A1/L504
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	CONTAINER	HEIGHT	SPREAD	CALIPER	DETAIL
	BB2	12	BOUTELOUA GRACILIS 'BLONDE AMBITION' BLOND AMBITION	#1	12"	6"	-N/A-	
	HES PAR	21	HESPERALOE PARVIFLORA RED YUCCA	#5	18"	18"	-N/A-	
	LAN HOR	16	LANTANA HORRIDA TEXAS LANTANA	#1	1 FT	1 FT	-N/A-	
	LEU FRU	16	LEUCOPHYLLUM FRUTESCENS TEXAS SAGE	#5	1.5'	1 FT	-N/A-	
	MUH CAP	16	MUHLENBERGIA CAPILLARIS PINK MUHLY GRASS	#1	12"	6"	-N/A-	
	PER ATR	12	PEROVSKIA ATRIPLICIFOLIA RUSSIAN SAGE	#5	24"	18"	-N/A-	
	SAL GRE	6	SALVIA GREGGII AUTUMN SAGE	#1	12"	6"	-N/A-	
GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME	CONTAINER	HEIGHT	SPREAD	CALIPER	DETAIL
	RR	6,113 SF	3/4" ROCK MULCH	4" DEPTH				
			TRAIL MIX, AVAILABLE FROM DESERT ROCK CO INSTALLED OVER WEED BARRIER					



A1 LANDSCAPE PLANTING PLAN
1" = 10'



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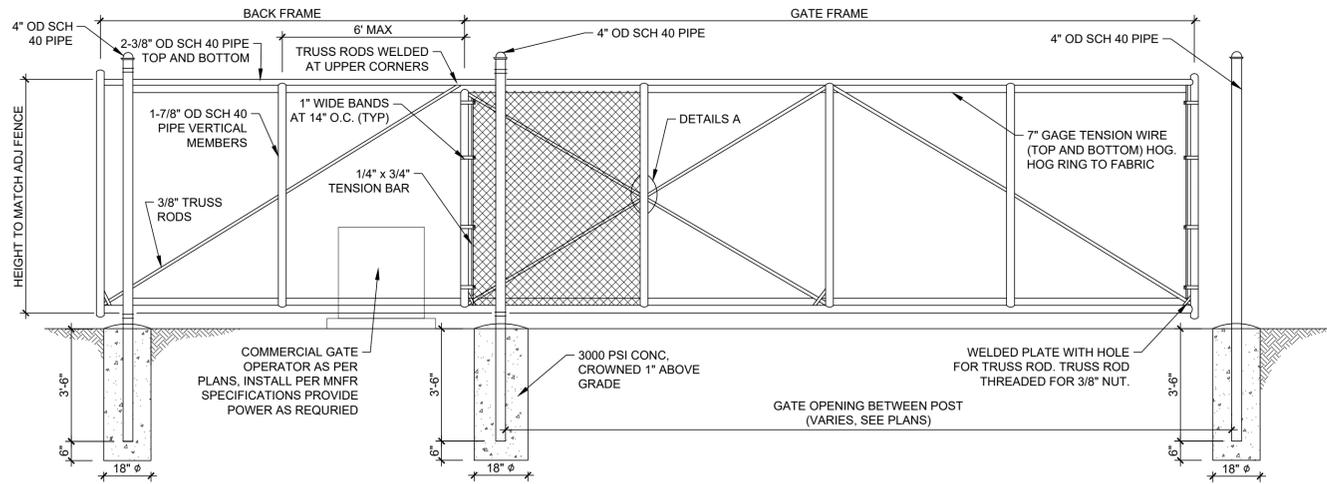
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DATE DESCRIPTION

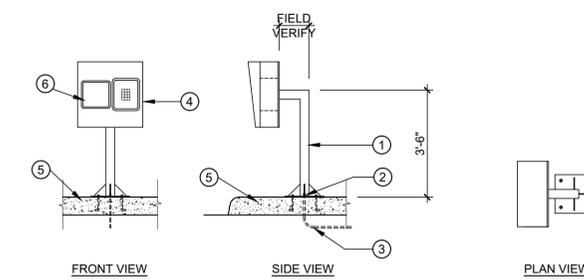
Landscape
Details

L501



D1 CANTILEVER GATE
1" = 1"

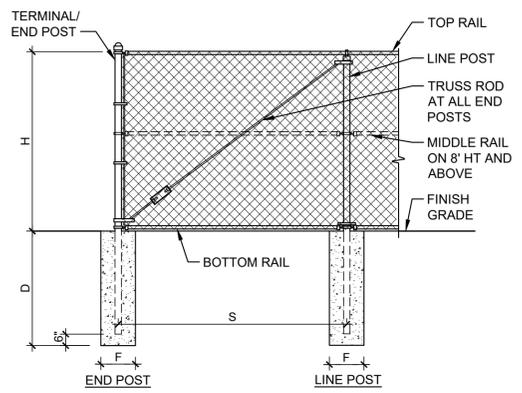
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D4 GATE OPERATOR PEDESTAL
NO SCALE

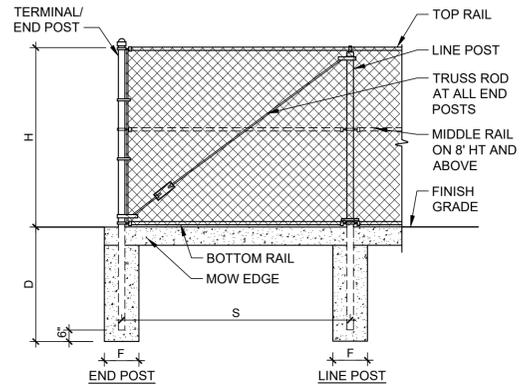
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- KEY NOTES:**
- 3" SQUARE GALVANIZED STEEL TUBE PEDESTAL WITH WEATHERPROOF STAINLESS STEEL HOUSING. SIZE PEDESTAL AND HOUSING TO ACCOMMODATE INSTALLED EQUIPMENT AND FIELD CONDITIONS.
 - STUB CONDUIT INTO BASE OF PEDESTAL.
 - ROUTE CONDUIT AS INDICATED ON ELECTRICAL PLANS.
 - PROVIDE PEDESTAL COVER PLATE WITH INDIVIDUAL BACKBOXES AND BLANK COVER PLATES FOR EACH DEVICE. CONFIRM INDIVIDUAL BACKBOXES AND DEVICE COVER PLATE DIMENSIONS, DEVICE TEMPLATES AND DRILLING AND TAPPING REQUIREMENTS FOR EACH DEVICE.
 - CONCRETE ISLAND FOR PEDESTALS WHERE REQUIRED (SEE DETAIL D4/C-501).
 - PROXIMITY CARD READER AND PUSH BUTTON REMOTE CONTROL TRANSMITTER



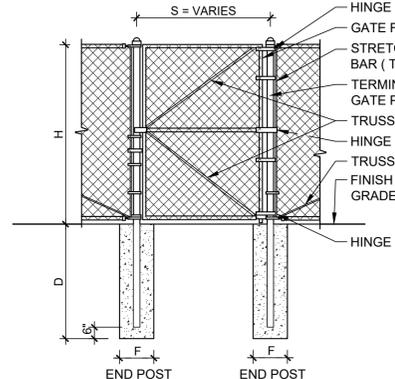
C1 CHAIN LINK FENCE - TYP
1/4" = 1'-0"

PSC-MID-MCF-323113-02



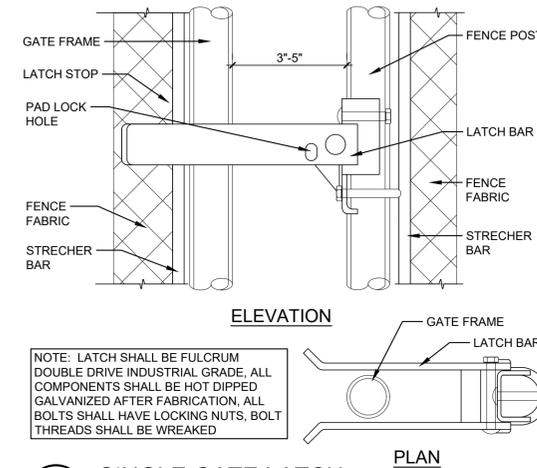
C2 CHAIN LINK FENCE W/ MOW EDGE - TYP
1/4" = 1'-0"

PSC-MID-MCF-323113-03



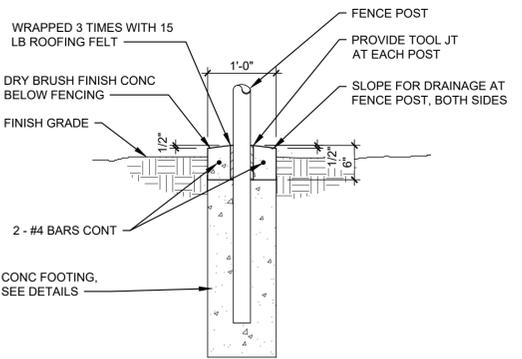
C3 CHAIN LINK FENCE GATE - TYP
1/4" = 1'-0"

PSC-MID-MCF-323113-04



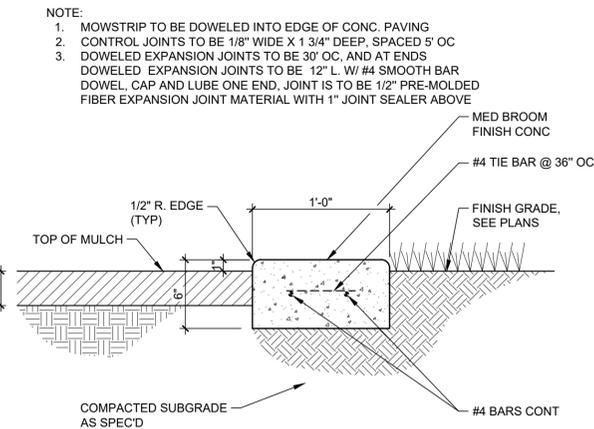
C4 SINGLE GATE LATCH
3" = 1'-0"

PSC-MID-MCF-323113-11



B1 MOW CURB AT FENCE
3/4" = 1'-0"

PSC-MID-MCF-321613-01



B2 CONCRETE MOWSTRIP
1 1/2" = 1'-0"

PSC-MID-MCF-321613-04

- NOTE:**
- MOWSTRIP TO BE DOWELED INTO EDGE OF CONC. PAVING
 - CONTROL JOINTS TO BE 1/8" WIDE X 1 3/4" DEEP, SPACED 5' OC
 - DOWELED EXPANSION JOINTS TO BE 30" OC, AND AT ENDS DOWELED EXPANSION JOINTS TO BE 12" L. W/ #4 SMOOTH BAR DOWEL, CAP AND LUBE ONE END, JOINT IS TO BE 1/2" PRE-MOLDED FIBER EXPANSION JOINT MATERIAL WITH 1" JOINT SEALER ABOVE

CHAIN LINK FENCE DATA (TYPE I - ASTM F1083-06 REG GRADE PIPE)

H = FENCE HEIGHT	6'-0"	8'-0"
END/TERMINAL/GATE POST SIZE	2 3/8" OD SCH 40	4" OD SCH 40
LINE POST SIZE	1 7/8" OD SCH 40	2 7/8" OD SCH 40
TOP AND BOTTOM RAIL	1 5/8" OD SCH 40	1 5/8" OD SCH 40
MIDDLE RAIL	N/A	1 5/8" OD SCH 40
GATE FRAME	2 3/8" OD SCH 40	2 3/8" OD SCH 40
D = FOOTING DEPTH	3'-6"	5'-6"
F = FOOTING DIAMETER	1'-0"	1'-0"
S = POST SPACING	10'-0" MAX OR AS SPEC'D	10'-0" MAX OR AS SPEC'D
MESH SIZE	2"	2"
FABRIC GAUGE	9	9

B3 CHAIN LINK FENCE SIZING CHART
1/4" = 1'-0"

PSC-MID-MCF-323113-07



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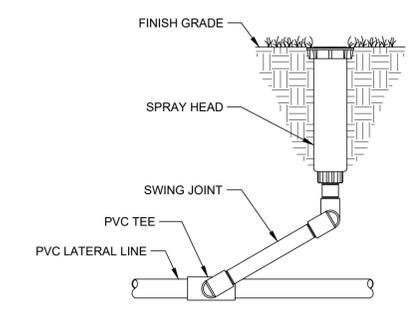
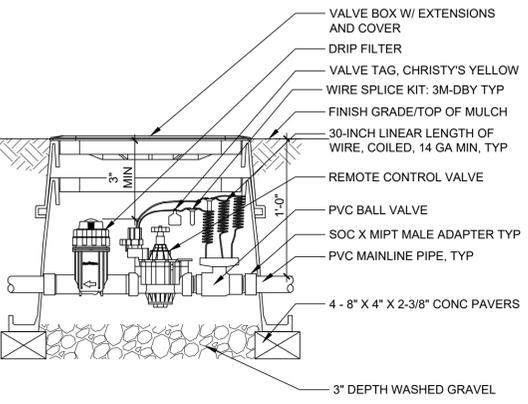
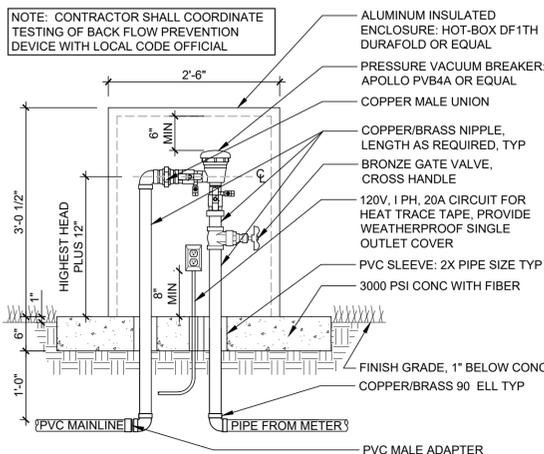
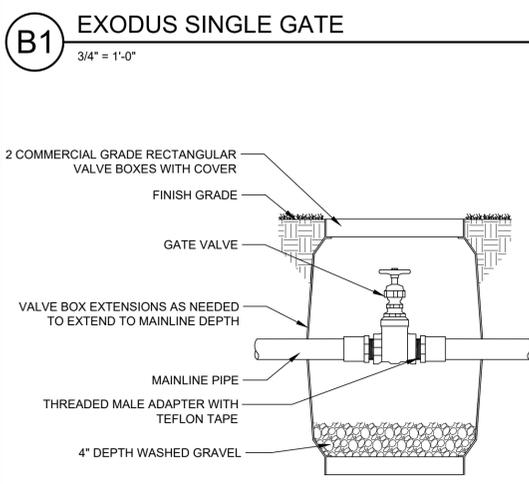
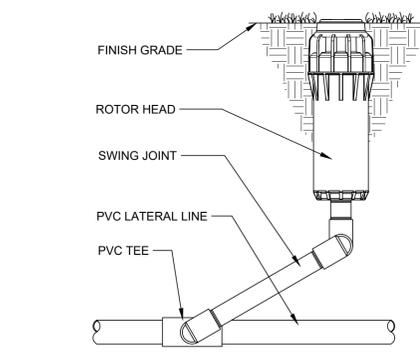
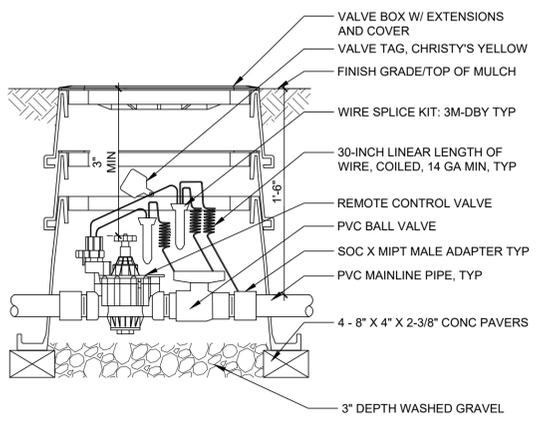
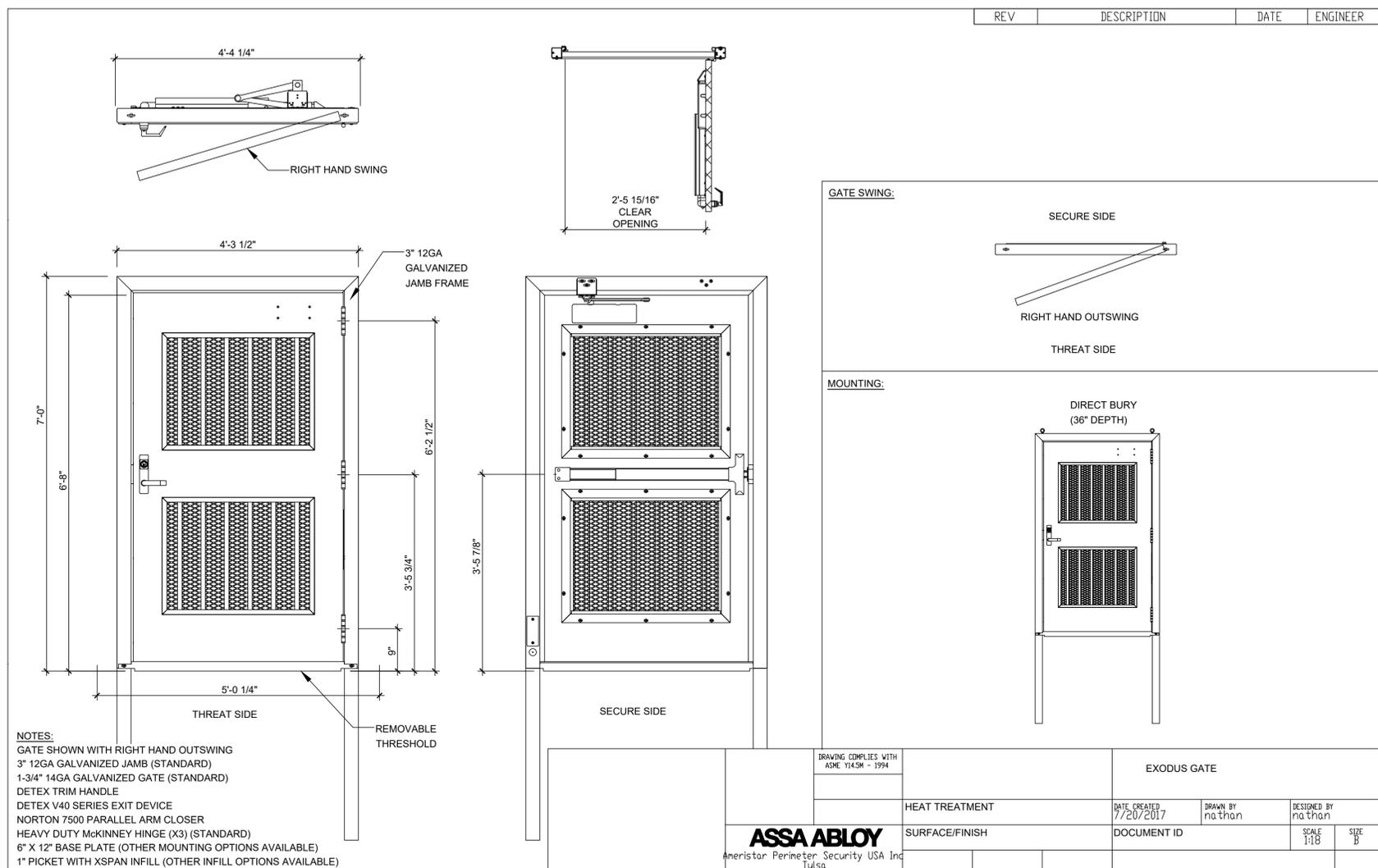
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Midland County
804 N. Fort Worth St.
Midland, Texas 79701

PROJECT NO.
40263.22

04/24/2023 Permit Set
DATE DESCRIPTION

Landscape Details
L502

REV	DESCRIPTION	DATE	ENGINEER
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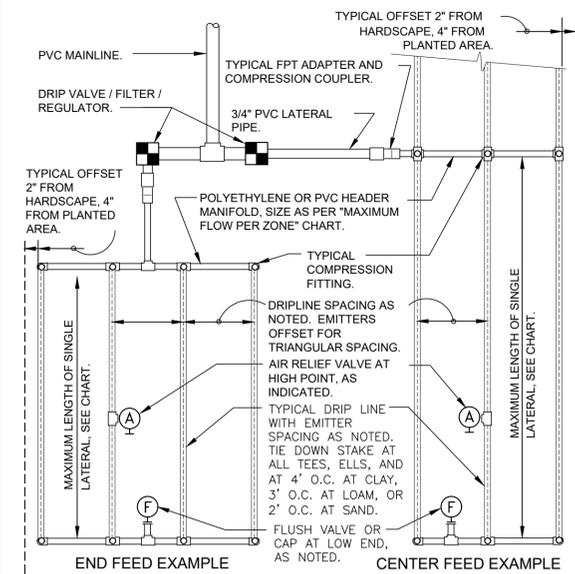
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PROJECT NO.
40263.22

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DATE DESCRIPTION

Landscape
Details

L503

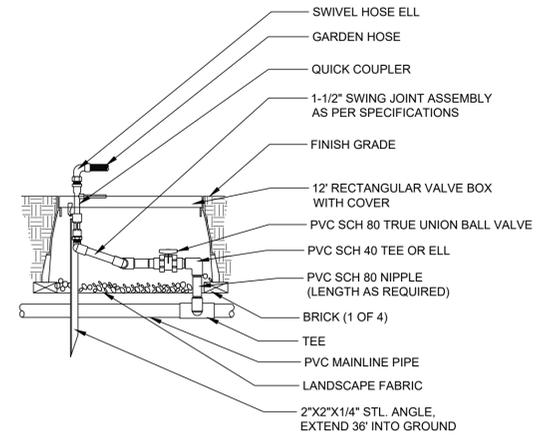
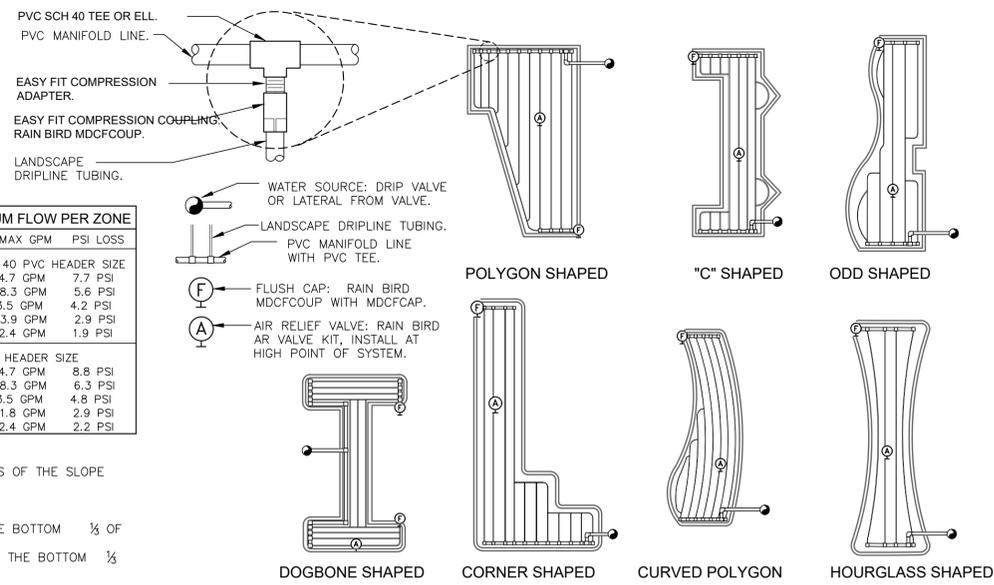


PSI	MAXIMUM LATERAL LENGTH (FEET)					
	12" SPACING		18" SPACING		24" SPACING	
10	125	96	175	135	218	171
20	249	191	350	171	442	340
30	307	236	434	333	550	422
40	350	268	495	380	627	171
50	125	96	175	135	218	171
60	125	96	175	135	218	171

EMITTER SPACING	GRID PRECIPITATION RATES (IN/HR)	
	LATERAL SPACING	EMITTER FLOW RATE
12	12	0.96
18	18	0.69
24	24	0.28

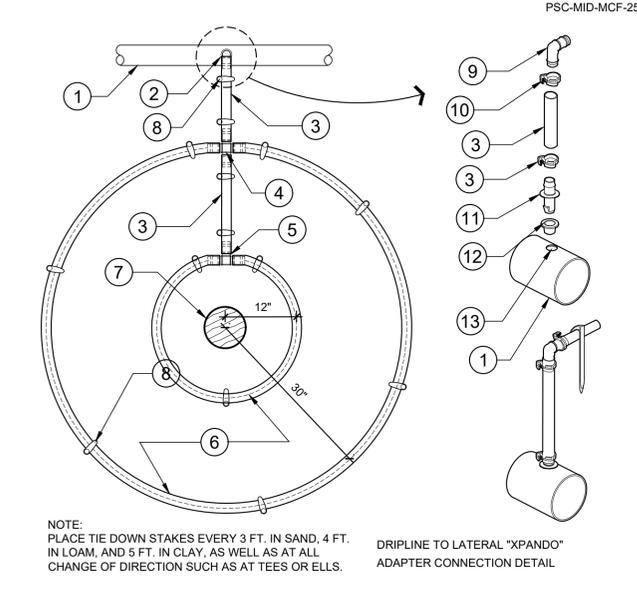
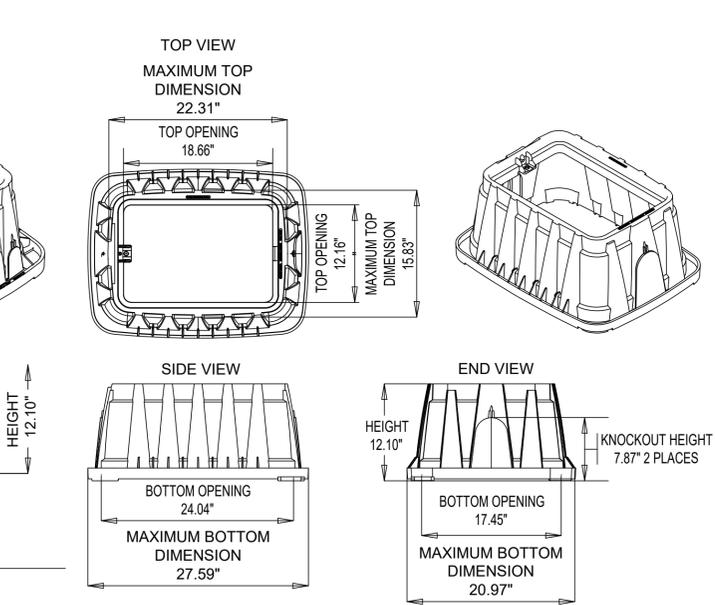
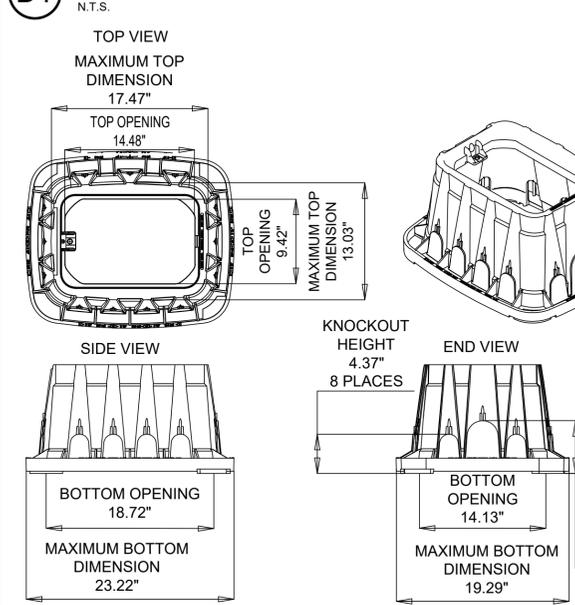
EMITTER FLOW	LATERAL FLOW PER 100 FT (GPM)		
	12" SPACING	18" SPACING	24" SPACING
0.6 GPH	1.0 GPM	0.67 GPM	0.50 GPM
0.9 GPH	1.5 GPM	1.0 GPM	0.75 GPM

- SLOPED CONDITION NOTE:**
1. DRIPLINE LATERALS SHOULD FOLLOW THE CONTOURS OF THE SLOPE WHENEVER POSSIBLE.
 2. INSTALL AIR RELIEF VALVE AT HIGHEST POINT.
 3. NORMAL SPACING WITHIN THE TOP 2/3 OF SLOPE.
 4. INSTALL DRIPLINE AT 25% GREATER SPACING AT THE BOTTOM 1/3 OF THE SLOPE.
 5. WHEN ELEVATION CHANGE IS 10 FT OR MORE, ZONE THE BOTTOM 1/3 ON A SEPARATE VALVE.



D1 TYPICAL RAIN BIRD DRIPLINE REQUIREMENTS

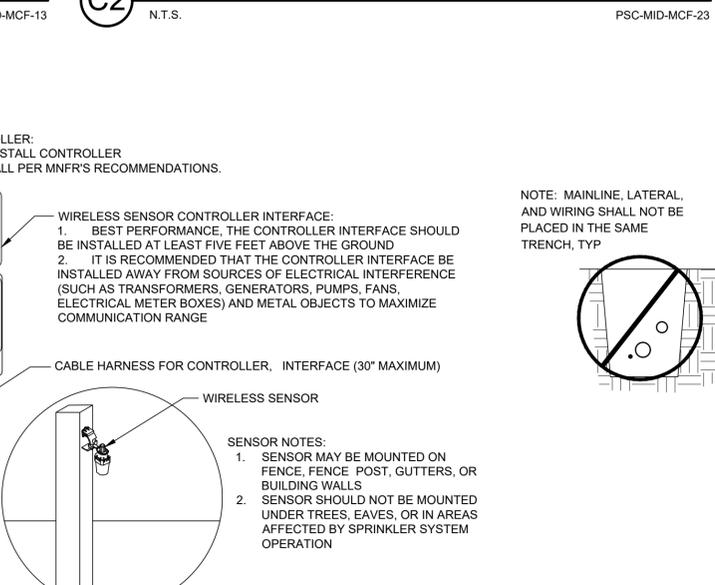
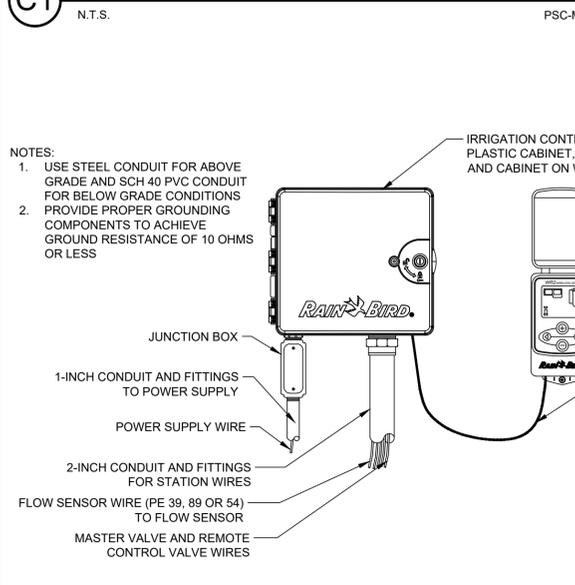
D5 QUICK-COUPLER VALVE



C1 RAIN BIRD STANDARD VALVE BOX DIMENSIONS

C2 RAIN BIRD JUMBO VALVE BOX DIMENSIONS

C3 TREE DRIP RING



A1 IRRIGATION CONTROLLER

A3 TRENCHING

- KEY NOTES**
- AS INDICATED BY: (X)
1. BOTTOM OF EXCAVATED TRENCH WHERE NON-ROCKY SOILS ARE ENCOUNTERED
 2. IRRIGATION SYSTEM PIPING
 3. MINIMUM 4" DEEP BEDDING MATERIAL WHERE ROCKY SOILS ARE ENCOUNTERED
 4. IRRIGATION SYSTEM VALVE WIRING: WIRE TO BE INSTALLED IN A SEPARATE TRENCH RUNNING PARALLEL TO THE MAINLINE AND OFFSET 5'-0" TO THE NORTH AND WEST OR AS APPROVED BY OWNER
 5. DETECTABLE WARNING TAPE, INSTALL 6" BELOW FINISH GRADE DIRECTLY ABOVE MAINLINE
 6. TRENCH BACKFILL BACKFILL MAY BE NATIVE SOILS IF IT IS FREE OF STONES LARGER THAN 1" IN SIZE. SOIL COMPACTION IN TURF AREAS TO BE 80% TO 85% DENSITY (ASTM D-1557) AND 95% (ASTM D-1557) DENSITY UNDER PAVED OR HARDSCAPE SURFACES

1 1/2" = 1'-0"

1" = 1"

1/2" = 1'-0"

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GENERAL REQUIREMENTS

- A. REFER TO SPECIFICATIONS FOR SPECIFIC REQUIREMENTS FOR MATERIALS, PRODUCTS, HANDLING, AND INSTALLATION.
- B. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE UNTIL THE CONSTRUCTION OF THE STRUCTURE REACHES ITS FINAL CONDITION, AND ALL DIAPHRAGMS, BRACES, AND/OR SHEAR WALLS ARE INSTALLED.
- C. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, INSTALLATION, AND REMOVAL OF TEMPORARY BRACING AND CONSTRUCTION SUPPORTS FOR NEW AND EXISTING STRUCTURES, AS NECESSARY TO COMPLETE THE PROJECT. NO PORTION OF THE PROJECT WHILE UNDER CONSTRUCTION IS INTENDED TO BE STABLE IN THE ABSENCE OF THE CONTRACTOR'S TEMPORARY SUPPORTS AND BRACES. CONTRACTOR SHALL RETAIN A STRUCTURAL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED TO DESIGN TEMPORARY BRACING AND CONSTRUCTION SUPPORTS.
- D. APPLY DETAILS, SECTIONS, AND NOTES ON THE DRAWINGS WHERE CONDITIONS ARE SIMILAR TO THOSE INDICATED ON DETAILS, TITLES, OR NOTES.
- E. ONLY USE DIMENSIONS INDICATED ON THE DRAWINGS. DO NOT SCALE DRAWINGS.
- F. THE CONTRACTOR SHALL VERIFY ALL OPENING SIZES AND LOCATIONS WITH OTHER DISCIPLINES. THE DRAWINGS DO NOT SHOW ALL OPENINGS REQUIRED. ADDITIONAL OPENINGS, BLOCKOUTS, AND SLEEVES MAY BE REQUIRED BY OTHER DISCIPLINES AND SHALL BE CONSTRUCTED USING THE TYPICAL DETAILS AND/OR THE CRITERIA INDICATED ON THE DRAWINGS. OPENINGS REQUIRED BUT NOT SHOWN ON THE STRUCTURAL DRAWINGS MUST BE APPROVED BY THE STRUCTURAL ENGINEER.
- G. REFER TO ARCHITECTURAL, CIVIL, MEP, AND VERTICAL TRANSPORTATION CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION RELATING TO THE COORDINATION OF STRUCTURAL COMPONENTS INCLUDING, BUT NOT LIMITED TO:
- a. CIVIL:
- SITING OF BUILDING GRID LINES WITH RESPECT TO CITY BENCHMARKS
 - SITE PREPARATION
 - BACKFILLING MATERIALS AND REQUIREMENTS
 - PAVING AND SITE ELEMENTS OUTSIDE OF BUILDING ENVELOPE
 - NEW AND EXISTING SITE UTILITIES
- b. ARCHITECTURAL:
- PLAN DIMENSIONS AND PROJECT DATUM
 - SLAB EDGE DIMENSIONS
 - FINISH ELEVATION
 - WATERPROOFING AND DAMP-PROOFING DETAILS
 - RAMP GEOMETRY, PITS, SLAB SLOPES, AND DEPRESSIONS
 - EMBEDMENTS, INSERTS, BLOCKOUTS, ETC.
 - EXACT OPENING SIZES FOR PIPES, DUCT, ETC.
 - CONCRETE FINISHES AND TOPPING SLABS
 - CONCRETE CURBS AND HOUSEKEEPING PADS
 - INTERIOR NON-STRUCTURAL MASONRY PARTITIONS
 - FIRE RATINGS
 - METAL PAN STAIRS AND SUPPORTS
 - OPERABLE PARTITIONS
- c. MEP:
- PIPE AND DUCT SIZES FOR OPENINGS AND SLEEVE COORDINATION
 - FLOOR DRAINS
 - UNDERFLOOR AND PERIMETER DRAINAGE SYSTEMS
 - EQUIPMENT CURBS
 - CONDUITS AND EMBEDMENTS IN WALLS AND SLABS
- d. VERTICAL TRANSPORTATION:
- INSERTS, HANGERS, TRENCHES, PITS, AND CONDUITS IN WALLS AND SLABS
 - EQUIPMENT SUPPORT, ELEVATOR DIVIDER BEAMS, EMBEDMENTS, AND ANCHOR RODS
- H. ELEVATOR GUIDERAIL SUPPORTS, MACHINE ROOMS, PITS, AND PENTHOUSES ARE BASED ON ELEVATOR TYPES INDICATED ON ARCHITECTURAL CONTRACT DOCUMENTS. CONTRACTOR SHALL SUBMIT FOR REVIEW ANY PLANNED CHANGE TO ELEVATOR(S) TO DESIGN PROFESSIONALS PRIOR TO SUBMITTING CORRESPONDING STRUCTURAL SHOP DRAWINGS FOR ACTION.
- I. STRUCTURAL COMPONENTS ARE NOT DESIGNED FOR VIBRATING EQUIPMENT. MOUNT VIBRATING EQUIPMENT ON VIBRATING ISOLATORS.

CODES

- ALL FABRICATION, ERECTION, AND DESIGN OF STRUCTURAL MEMBERS SHALL MEET THE MINIMUM STANDARDS OF THE FOLLOWING CODES:
- INTERNATIONAL BUILDING CODE (IBC) 2018
 - AMERICAN CONCRETE INSTITUTE (ACI): ACI 318-11 AND OTHER APPLICABLE ACI STANDARDS
 - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) STEEL CONSTRUCTION MANUAL - THIRTEENTH EDITION
 - AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) - STANDARD 7-10
 - AMERICAN WELDING SOCIETY (AWS)
 - CONCRETE REINFORCING STEEL INSTITUTE (CRSI)
 - NATIONAL CONCRETE MASONRY ASSOCIATION (NCMA)
 - STEEL DECK INSTITUTE (SDI)
 - STEEL JOIST INSTITUTE (SJI)
 - ASTM SPECIFICATIONS
 - AMERICAN IRON AND STEEL INSTITUTE (AISI)
 - AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC)
 - WIRE REINFORCEMENT INSTITUTE (WRI)
 - TRUSS PLATE INSTITUTE (TPI)
 - NATIONAL DESIGN STANDARDS (NDS) FOR WOOD CONSTRUCTION 2012

MATERIAL PROPERTIES

STEEL		
WIDE FLANGE MEMBERS	ASTM A992 - GRADE 50	
STEEL PIPE	ASTM A501 OR ASTM A53 TYPE E OR S - GRADE B	
STEEL TUBE	ASTM A500 GRADE B - 46 KSI	
MISC STEEL	ASTM A36 - 36 KSI	
CONCRETE		
SLABS & FOOTINGS	3000 PSI	
PIERS & GRADE BEAMS	4000 PSI	
BEAMS & COLUMNS	4000 PSI	
MASONRY		
MINIMUM PRISM STRENGTH	1800 PSI	
REINFORCING		
TYPICAL	ASTM A-615 - GRADE 60	
LOW ALLOY/WELDABLE	ASTM A-706 - GRADE 60	
ANCHOR RODS	ASTM F-1554 - GRADE 36 UNO	
BOLTS	ASTM A325 (3/4" DIAMETER MINIMUM)	
WELD		
STRUCTURAL STEEL	E70XX	
LIGHT GAUGE METALS	E60XX	

DESIGN LOADS

- A. ALL APPLICABLE DEAD LOADS
- B. LIVE LOADS:
- | | |
|------------------|---------|
| ROOF LIVE LOAD: | 20 PSF |
| FLOOR LIVE LOAD: | 100 PSF |
| COLLATERAL LOAD: | 10 PSF |
- C. SNOW LOAD: PER ASCE 7-10
- D. GROUND SNOW LOAD, P_g:
- E. LATERAL SOIL PRESSURE:
- F. WIND LOAD: PER ASCE 7-10
- | | |
|-------------------|---------|
| BASIC WIND SPEED | 105 MPH |
| EXPOSURE CATEGORY | II |
- G. SEISMIC LOADS: PER IBC 2012
- | | |
|---|------|
| BUILDING CATEGORY: | II |
| SEISMIC IMPORTANCE FACTOR, I _e : | 1.00 |
| SITE CLASS: | D |
| SEISMIC DESIGN CATEGORY: | A |
- H. DISTRIBUTE THE MAXIMUM LOAD HUNG FROM ANY STRUCTURAL MEMBER FOR MEP DUCTWORK, PIPING, ETC. OVER THE MEMBER'S TRIBUTARY AREA IN A WAY THAT THE DESIGN SUPERIMPOSED DEAD LOADS LISTED IN CONTRACT DOCUMENTS ARE NOT EXCEEDED. HANGING ITEMS FROM DECK IS STRICTLY PROHIBITED. THE CONTRACTOR SHALL COORDINATE THE LOADS OF ALL TRADES AND PROVIDE ADDITIONAL SUPPORT OR DISTRIBUTION FRAMING AS REQUIRED TO ACHIEVE THE ALLOWABLE LOAD DISTRIBUTION.

FOUNDATIONS

- A. ALL FOOTINGS ARE DESIGNED ON AN ALLOWABLE SOIL BEARING PRESSURE OF XXXX POUNDS PER SQUARE FOOT AT A MINIMUM DEPTH OF XX FOOT BELOW 100'-0" FINISHED FLOOR ELEVATION.
- B. DRILLED PIERS ARE DESIGNED ON AN ALLOWABLE SOIL BEARING PRESSURE OF 10,000 POUNDS PER SQUARE FOOT, AND AN ALLOWABLE SKIN FRICTION OF 1,000 POUNDS PER SQUARE FOOT. DEPTH OF DRILLED PIER IS XX FOOT BELOW 100'-0" FINISHED FLOOR ELEVATION. THE TOP XX FOOT OF SOIL IS IGNORED FOR SKIN FRICTION.
- C. PLACE 3 INCH GRANULAR FILL UNDER VAPOR BARRIER UNDER ALL UNSUPPORTED FLOOR SLABS ON FILL, EXCEPT AS OTHERWISE NOTED.
- D. ALL EXTERIOR GRADE BEAMS SHALL BE CHAMFERED 3/4 INCH ON THE EXPOSED EXTERIOR CORNER.
- E. OVERPOUR AT TOPS OF PIERS, ALSO REFERRED TO AS "MUSHROOMS", SHALL BE REMOVED TO THE REQUIRED PIER DIAMETER.
- F. REFER TO THE SOIL REPORT FOR SUBSOIL CONDITIONS THAT MAY BE ENCOUNTERED IN THE INSTALLATION OF FOUNDATIONS, AND OTHER INFORMATION RELEVANT TO FOUNDATIONS AND SITE PREPARATION.
- G. DESIGN OF FOUNDATIONS AND STRUCTURAL COMPONENTS IN CONTACT WITH SOIL IS BASED ON THE RECOMMENDATIONS GIVEN IN THE FOLLOWING GEOTECHNICAL REPORT:
- | | |
|----------------|--------|
| REPORT BY | : XXXX |
| DATE OF REPORT | : XXXX |
| REPORT NUMBER | : XXXX |

SITE PLANNING AND FILL NOTES

- FOUNDATION WORK (EXCAVATION, OVER EXCAVATION, FILL MATERIAL, COMPACTION, FOOTING PREPARATION, SLAB-ON-GRADE PREPARATION, ETC. SHALL BE AS OUTLINED IN THE GEOTECHNICAL REPORT REFERENCED IN THE "FOUNDATIONS" SECTION, SUB-PARAGRAPH G OF THESE GENERAL NOTES. IF THE REQUIRED INFORMATION IS NOT CONTAINED IN THAT REPORT, UTILIZE INFORMATION IN THIS SECTION OF THE GENERAL NOTES. IF THE INFORMATION REQUIRED IS NOT FOUND IN THIS SECTION, PLEASE CONTACT THIS OFFICE FOR ADDITIONAL INFORMATION.

- A. PROPER CONSTRUCTION DRAINAGE SHALL BE PROVIDED AND MAINTAINED AT ALL TIMES DURING FOUNDATION CONSTRUCTION. PONDING OF WATER AT THE SITE SHOULD BE AVOIDED DURING ALL PHASES OF CONSTRUCTION.
- B. SCARIFY SITE TO MINIMUM DEPTH OF 6 INCHES TO REMOVE ALL EXISTING VEGETATION. REMOVAL SHALL EXTEND 5 FOOT BEYOND BUILDING AREAS AND 2 FOOT BEYOND PAVING AREAS.
- C. SCARIFY AND RECOMPACT TOP 6 INCHES OF SUBGRADE TO MINIMUM OF 95 PERCENT OF ASTM D698 OR ASTM D1557 MAXIMUM DENSITY. REMOVE AND REPLACE WEAK OR SOFT AREAS WITH GRANULAR FILL OR BASE MATERIALS.
- D. BUILDING PAD SHALL BE RAISED TO PROPER ELEVATION USING SATISFACTORY SOILS COMPACTED IN 6 INCH MAXIMUM LOOSE LIFTS TO 95 PERCENT OF ASTM D698 MAXIMUM DENSITY, OR AS PRESCRIBED BY THE GEOTECHNICAL ENGINEER. MOISTURE SHALL BE CONTROLLED TO WITHIN 2 PERCENT OF OPTIMUM PER D698 DURING COMPACTION OPERATIONS.
- E. FOOTINGS MAY BE BACK FILLED USING SATISFACTORY SOILS AS SPECIFIED, COMPACTED IN 6 INCH MAXIMUM LOOSE LIFTS TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D698.
- F. UTILITY TRENCHES WITHIN BUILDING OR PAVING AREAS SHALL BE FILLED PER THE ABOVE CRITERIA.
- G. TREE STUMPS, IF ENCOUNTERED, SHOULD BE COMPLETELY REMOVED AND BACK FILLED PER THE ABOVE CRITERIA.

CONCRETE

- A. ALL EXTERIOR CONCRETE, INCLUDING WALKS AND CURBS OUTSIDE THE BUILDING LINE, SHALL BE AIR ENTRAINED.
- B. PROVIDE STANDARD BAR CHAIRS AND SPACERS FOR REINFORCING AT A MAXIMUM OF 4 FOOT CENTERS FOR ALL SLABS AND BEAMS.
- C. LAP CONTINUOUS UNSCHEDULED REINFORCING BARS AS FOLLOWS: BOTTOM BARS IN MEMBERS SUPPORTED BY COLUMNS OR FOOTINGS - 12 INCH AT SUPPORTS ONLY; ALL OTHERS - (36) BAR DIAMETERS MINIMUM.
- D. ALL HORIZONTAL REINFORCING IN CONTINUOUS FOOTINGS AND WALLS SHALL BE CONTINUOUS AROUND CORNERS OR HAVE CORNER BARS OF THE SAME SIZE AND SPACING AS THE HORIZONTAL BARS AND LAP A MINIMUM OF (30) BAR DIAMETERS OR 24 INCH MINIMUM.
- E. THERE SHALL BE NO HORIZONTAL CONSTRUCTION JOINTS IN CONCRETE BEAM, FOOTING, OR SLAB PORTIONS. ALL CONSTRUCTION JOINTS SHALL BE MADE WITHIN THE CENTER THIRD OF SPANS WITH VERTICAL BULKHEADS. THE LOCATION OF CONSTRUCTION JOINTS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER.
- F. WHERE CONCRETE PILASTERS, COLUMNS, OR BEAMS ARE TO BE LEFT EXPOSED AND DO NOT ABUT OTHER MATERIALS, EXTERNAL CORNERS SHALL BE CHAMFERED 3/4 INCH.
- G. WHERE SLEEVES ARE REQUIRED THROUGH BEAMS OR JOISTS, VERTICAL OR HORIZONTAL PIPE SLEEVES SHALL BE PROVIDED AS SPECIFIED UNDER THE MECHANICAL AND ELECTRICAL SECTIONS OF THE SPECIFICATION. LOCATION OF ALL SUCH SLEEVES SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. WHERE NECESSARY FOR STRUCTURAL REASONS, BEAMS OR JOISTS SHALL BE WIDENED TO COMPENSATE FOR THE LOSS OF CROSS SECTION DUE TO THE SLEEVE. ADD ONE EXTRA TIE OR STIRRUP ON BOTH SIDES OF EACH SLEEVE. WHERE TWO OR MORE PIPE SLEEVES ARE REQUIRED THROUGH CONCRETE SLABS, A DISTANCE EQUAL TO THREE TIMES THE LARGER SLEEVE DIAMETER SHALL BE PROVIDED BETWEEN SLEEVES.

CONCRETE MIX DESIGNS

- ALL CONCRETE TO BE NORMAL WEIGHT CONCRETE, MAXIMUM FLY ASH CONTENT TO BE NO MORE THAN 25% OF TOTAL CEMENTITIOUS WEIGHT.
- A. CONTINUOUS AND SPOT FOOTINGS, GRADE BEAMS:
- MINIMUM COMPRESSIVE STRENGTH:
 - 3500 PSI AT 28 DAYS
 - MAXIMUM W/C RATIO:
 - 0.50
 - MAXIMUM AGGREGATE SIZE:
 - 1 INCH
 - SLUMP LIMIT:
 - 4 INCHES ± 1 INCH
- B. SLABS-ON-GRADE:
- MINIMUM COMPRESSIVE STRENGTH:
 - 4000 PSI AT 28 DAYS
 - MAXIMUM W/C RATIO:
 - 0.45
 - MAXIMUM AGGREGATE SIZE:
 - 3/4 INCH
 - SLUMP LIMIT:
 - 4 INCHES ± 1 INCH
 - AIR CONTENT:
 - DO NOT ALLOW AIR CONTENT OF TROWEL-FINISHED FLOORS TO EXCEED 3%

FLOOR SLABS

- A. CURING SLABS ON GRADE
- SLABS ON GRADE SHALL BE WET CURED FOR 7 DAYS AFTER CONCRETE PLACEMENT. WET CURING SHALL BEGIN IMMEDIATELY AFTER FINAL FINISHING OF SLAB SURFACE AND SHALL CONSIST OF CONTINUOUS MISTING BY SPRINKLER OR WET BURLAP. CONTRACTOR SHALL APPLY APPROVED CURING COMPOUND.
- B. FLOOR SLAB ISOLATION JOINTS SHALL BE 30 POUND FELT, UNLESS NOTED OTHERWISE.
- C. CONCRETE FLOOR SLAB ON GRADE SHALL BE PLACED IN LANES. SPACING OF JOINTS SHALL BE AS SHOWN ON THE FOUNDATION PLANS. CONSTRUCTION JOINTS SHALL BE USED FOR THE JOINTS BETWEEN LANES, WHILE WEAKENED PLANE JOINTS SHALL BE USED ACROSS EACH LANE.
- D. CONSTRUCTION AND CONTRACTION JOINTS SHALL BE LOCATED AS INDICATED ON THE PLAN. WHERE CONTRACTION JOINTS ARE INDICATED, SAW CUTTING SHALL BEGIN AS SOON AS POSSIBLE WITHOUT DAMAGING THE SLAB.

REINFORCEMENT AND MISC STEEL

- A. UNLESS OTHERWISE NOTED, CONCRETE COVER OVER STEEL REINFORCEMENT SHALL CONFORM TO THE MINIMUMS REQUIRED BY THE AFOREMENTIONED EDITION OF ACI 318.
- B. REINFORCEMENT DETAILING AND PLACEMENT SHALL CONFORM TO ACI 318 AND ACI 315, EXCEPT WHERE OTHERWISE INDICATED.
- C. **SUBSTITUTION OF EXPANSION ANCHORS FOR EMBEDDED ANCHORS SHOWN ON THE DRAWINGS WILL NOT BE PERMITTED.**
- D. ALL REINFORCING STEEL, ANCHOR BOLTS, AND EMBEDDED ANCHORS SHALL BE SECURELY SET IN PLACE PRIOR TO PLACEMENT OF CONCRETE.

PRE-ENGINEERED BUILDING

- A. THE BUILDING SHALL BE A MANUFACTURER'S STANDARD PREFABRICATED METAL STRUCTURE OF THE APPROXIMATE INSIDE AREA SHOWN, EXCEPT AS NOTED. RIGID FRAMES SHALL BE SPACED AS SHOWN ON THE DRAWINGS, BUT OVERALL DIMENSIONS AND CONSTRUCTION DETAILS MAY VARY TO SUIT MANUFACTURER'S STANDARD DESIGN. HOWEVER, MINIMUM WEB THICKNESS OF RIGID FRAMES SHALL BE 3/16 INCH.
- B. THE BUILDING SHALL BE DESIGNED AND FABRICATED ACCORDING TO AISC, MBMA, AND AISI LATEST SPECIFICATIONS. THE DIMENSIONAL TOLERANCES APPLICABLE TO ROLL FORM STEEL UNDER THE AISC "STANDARD MILL PRACTICE" SECTION SHALL BE REQUIRED IN THE FABRICATION OF THE STEEL BUILDING FRAMES.
- C. A COMPLETE DESIGN ANALYSIS SHOWING ALL CALCULATIONS FOR THE RIGID FRAMES, GIRTS, PURLINS, AND X-BRACING FOR WIND AND SEISMIC LOADS AND A LAYOUT OF ANCHOR BOLTS AND OTHER EMBEDDED ITEMS SHALL BE SUBMITTED FOR APPROVAL WITH THE SHOP DRAWINGS. SHOP DRAWINGS SHALL INCLUDE DETAILS OF MAIN MEMBERS, TYPICAL CONNECTIONS (SHOWING BOLT HOLES AND WELDS), AND ERECTION DRAWINGS.
- D. THE BUILDING SHALL BE DESIGNED TO SUPPORT ALL MECHANICAL EQUIPMENT INCLUDING HEATERS, SPRINKLERS, EXHAUST SYSTEMS, AND ALL OTHER SUCH DEVICES. ADDITIONAL GIRTS OR PURLINS SHALL BE PLACED IN CONVENIENT LOCATIONS FOR ATTACHMENT OF ALL MECHANICAL EQUIPMENT.

FOUNDATION DESIGN SHOWN ON SHEET S-111 IS PROVIDED FOR PRELIMINARY PRICING ONLY AND IS NOT TO BE USED FOR CONSTRUCTION. ONCE THE PEMB SHOP DRAWINGS HAVE BEEN SUBMITTED AND APPROVED, THE FOUNDATION DESIGN SHOWN WILL BE ADJUSTED TO ACCOMMODATE THE DESIGN LOADS INDICATED BY THE PEMB MANUFACTURER IN THE SHOP DRAWINGS.

POST-INSTALLED ANCHORS

- EXCEPT WHERE INDICATED ON THE DRAWINGS, POST-INSTALLED ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES, AS PROVIDED BY HILTI, INC. OR APPROVED EQUAL. CONTACT HILTI AT (800) 879-8000 FOR PRODUCT RELATED QUESTIONS.
- A. ANCHORS TO CONCRETE
- ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
 - HILTI HIT-HY 200 V3 SAFE SET SYSTEM WITH HILTI HIT-Z ROD PER ICC ESR-3187
 - HILTI HIT-HY 200 V3 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD) AND VC 140 VACUUM SYSTEM WITH HAS-E-55 THREADED ROD PER ICC ESR-3187
 - HILTI HIT-HY 200 V3 SAFE SET SYSTEM WITH HILTI ROUGHENING TOOL (HIT RT) WITH HAS-E THREADED ROD PER ICC ESR-3187 FOR DIAMOND CORED HOLES.
 - HILTI HIT-RE-500-V3 SAFESET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD) AND VC 140 VACUUM WITH HAS-E-55 THREADED ROD PER ICC ESR-3814 FOR SLOW CURE APPLICATIONS.
 - HILTI HIT-RE 500-V3 SAFESET SYSTEM WITH HILTI ROUGHENING TOOL (HIT RT) WITH HAS-E THREADED ROD PER ICC EST-3814 FOR DIAMOND CURED HOLES.
 - MEDIUM DUTY MECHANICAL ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
 - HILTI KWIK HUS EZ AND KWIK HUS EZ-I SCREW ANCHORS SAFE SET SYSTEM WITH HOLLOW DRILL BIT AND VACUUM SYSTEM PER ICC ESR-3027.
 - HILTI KWIK BOLT-T22 EXPANSION ANCHORS SAFE SET SYSTEM WITH HOLLOW DRILL BIT AND VACUUM SYSTEM AND SI-AT-A22 WITH ADAPTIVE TORQUE PER ICC ESR-1017.
 - HILTI KWIK BOLT 1 (CARBON STEEL) OR KWIK BOLT 3 (OTHERS), EXPANSION ANCHOR SAFE SET SYSTEM WITH HOLLOW DRILL BIT AND VACUUM SYSTEM AND SI-AT-A22 WITH ADAPTIVE TORQUE (UNCRACKED CONCRETE ONLY) PER ICC ESR-2302.
 - HEAVY DUTY MECHANICAL ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
 - HILTI HDA UNDERCUT ANCHORS PER ICC ESR 1546.
 - HILTI HSL-3 EXPANSION ANCHORS PER ICC ESR 1545
- B. REBAR DOVELING INTO CONCRETE
- ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
 - HILTI HIT-HY 200 V3 SAFE SET SYSTEM WITH HOLLOW DRILL BIT (TE-CD OR TE-YD) AND VC 140 VACUUM SYSTEM WITH CONTINUOUSLY DEFORMED REBAR PER ICC ESR-3187
 - HILTI HIT-HY 200 V3 SAFESET SYSTEM WITH HILTI ROUGHENING TOOL (HIT RT) WITH HAS-E THREADED ROD PER ICC ESR-3187 FOR DIAMOND CORED HOLES
 - HILTI HIT-RE-500-V3 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD) AND VC 140 VACUUM SYSTEM WITH CONTINUOUSLY DEFORMED REBAR PER ICC ESR-3814
 - HILTI HIT-RE 500-V3 SAFE SET SYSTEM WITH HILTI ROUGHENING TOOL (HIT RT) WITH CONTINUOUSLY DEFORMED REBAR PER ICC ESR-3814 IN DIAMOND CORED HOLES
 - ANCHORAGE TO HOLLOWMULTI-WYTHE MASONRY
- ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
 - HILTI HIT-HY 270 MASONRY ADHESIVE ANCHORING SYSTEM PER ICC ESR-4144.
 - STEEL ANCHOR ELEMENT SHALL BE HILTI HAS-E CONTINUOUSLY THREADED ROD (OR EQUAL) OR CONTINUOUSLY DEFORMED STEEL REBAR.
 - THE APPROPRIATE SIZE SCREEN TUBE SHALL BE USED PER ADHESIVE MANUFACTURER'S RECOMMENDATION.
- D. ANCHOR CAPACITY USED IN DESIGN SHALL BE BASED ON THE TECHNICAL DATA PUBLISHED BY HILTI OR SUCH OTHER METHOD AS APPROVED BY THE STRUCTURAL ENGINEER OF RECORD. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBMITTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUE OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIRS HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY, AND AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE.
- E. INSTALL ANCHOR PER THE MANUFACTURER INSTRUCTION, AS INCLUDED IN THE ANCHOR PACKAGING.
- F. OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED USING THE HILTI PROFIS SYSTEM.
- G. THE CONTRACTOR SHALL ARRANGE FOR AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ON-SITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO COMMENCEMENT OF INSTALLING ANCHORS.
- H. ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.
- I. EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURAL DRAWINGS MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED OTHERWISE THAT THE BARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS BY HILTI FERROSCAN, GPR, X-RAYING, CHIPPING, OR OTHER APPROVED MEANS.

Parkhill



04/24/2023

Parkhill.com

Facilities Warehouse
Midland County



CLIENT

Midland County

804 N. Fort Worth St.
Midland, TX

PROJECT NO.

40263.22

04/24/2023 Permit Set

DATE DESCRIPTION

General Notes

S-001



04/24/2023

Parkhill.com

Facilities Warehouse
 Midland County



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DATE DESCRIPTION

ABBREVIATIONS	
ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
ADDM	ADDENDUM
ADH	ADHESIVE
ADJ	ADJUSTABLE, ADJACENT
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
AIA	AMERICAN INSTITUTE OF ARCHITECTS
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
ALUM	ALUMINUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APA	AMERICAN PLYWOOD ASSOCIATION
APPROX	APPROXIMATE
ARCH	ARCHITECT
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
AVG	AVERAGE
AW	AFTER WELD
AWG	AMERICAN WIRE GAGE
AWS	AMERICAN WELDING SOCIETY
B	
B PL	BASE PLATE
BBM	BOND BEAM
BIA	BRICK INSTITUTE OF AMERICA
BL	BASE LINE, BUILDING LINE
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BO	BOTTOM OF
BOS	BOTTOM OF STEEL
BOT	BOTTOM (BOTTOM FACE, LAYER, SIDE)
BRCG	BRACING
BRDG	BRIDGING
BRG	BEARING
BTWN	BETWEEN
C	
C	AMERICAN STANDARD CHANNEL, (STRUCTURAL SHAPE), COMPRESSION
CFMF	COLD-FORMED METAL FRAMING
CHFR	CHAMFER
CIP	CAST-IN-PLACE
CIRC	CIRCULAR
CJ	CONTROL JOINT
CL	CENTER LINE, COLUMN LINE
CLG	CEILING
CLR	CLEAR, CLEARANCE
cm	CENTIMETER
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMP	COMPRESSION
CONC	CONCRETE
CONN	CONNECT, CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUE, CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CRCMF	CIRCUMFERENCE
CSI	CONSTRUCTION SPECIFICATIONS INSTITUTE
CTR	CENTER
CU FT	CUBIC FOOT
CU YD	CUBIC YARD
D	
D	DEPTH
db	REINFORCING BAR DIAMETER
DBL	DOUBLE
DEG	DEGREE
DEMO	DEMOLISH
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DL	DEAD LOAD
DWG	DRAWING
DWL	DOWEL(S)
E	
E	EAST, MODULUS OF ELASTICITY
EA	EACH
ECC	ECCENTRIC
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC, ELECTRICAL
ELEV	ELEVATOR
ENGR	ENGINEER
EOD	EDGE OF DECK
EOF	EDGE OF FOOTING
EOS	EDGE OF SLAB
EP	EDGE OF PAVEMENT (PAVING)
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EACH SIDE
EW	EACH WAY
EXC	EXCAVATE
EXP	EXPANSION, EXPOSED
EXP BT	EXPANSION BOLT
EXST	EXISTING
EXT	EXTERIOR

ABBREVIATIONS	
F	FLOOR DRAIN
FDTN	FOUNDATION
FF EL	FINISH FLOOR ELEVATION
FIN	FINISH(ED)
FIN FLR	FINISH FLOOR
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF SLAB, FACE OF STUD
FOW	FACE OF WALL
FP	FIREPROOF(ING)
FRMG	FRAMING
FS	FAR SIDE
FT	FOOT
FTG	FOOTING
FURG	FURRING
FV	FIELD VERIFY
G	
GA	GAGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERAL
GLB	GLUE LAMINATED BEAM
GOVNT	GOVERNMENT
GR	GRADE
GR BM	GRADE BEAM
GT	GROUT
H	
H	HIGH
HDR	HEADER
HK	HOOK
HORIZ	HORIZONTAL
HS	HIGH STRENGTH, HEADED STUD
HT	HEIGHT
HVAC	HEATING VENTILATION AND AIR CONDITIONING
I	
I	MOMENT OF INERTIA
IBC	INTERNATIONAL BUILDING CODE
ICF	INSULATED CONCRETE FORM
ID	INSIDE DIAMETER
IF	INSIDE FACE
IFS	INSIDE FACE OF STUD
INVL	INCLUDE(D)(ING)(S)(IVE)
INFO	INFORMATION
INT	INTERIOR
INTRM	INTERMEDIATE
INV	INVERT(ED)
J	
JBE	JOIST BEARING ELEVATION
JST(S)	JOIST(S)
JT	JOINT
K	
K	KIPS (1,000 POUNDS)
KLF	KIPS PER LINEAR FOOT
KO	KNOCKOUT
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
KWY	KEYWAY
L	
L	ANGLE (STRUCTURAL STEEL), LOW
LB	POUND
LD BRG	LOAD-BEARING
LH	LEFT HAND
LL	LIVE LOAD
LLBB	LONG LEG BACK TO BACK
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
LSH	LONG SIDE HORIZONTAL
LSV	LONG LEG VERTICAL
LT	LIGHT
LT GA	LIGHT GAGE
LT WT	LIGHT WEIGHT
LVL	LAMINATED VENEER LUMBER
LWC	LIGHTWEIGHT CONCRETE
M	
m	METER(S)
M	MOMENT
MATL	MATERIAL
MAU	MAKE UP AIR UNIT(S)
MAX	MAXIMUM
MB	MACHINE BOLT
MC	MOMENT CONNECTION(S)
MCJ	MASONRY CONTROL JOINT
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION
MEZZ	MEZZANINE
MFG	MANUFACTURING
MFR	MANUFACTURER
MID	MIDDLE
MIL STD	MILITARY STANDARD
MIN	MINIMUM
MISC	MISCELLANEOUS
mm	MILLIMETER
MO	MASONRY OPENING
MOD	MODIFY
MTL	METAL

ABBREVIATIONS	
N	NORTH
NA	NOT APPLICABLE
NIC	NOT IN CONTACT
NLB	NON LOAD BEARING
NO	NUMBER
NOM	NOMINAL
NS	NEAR SIDE
NTS	NOT TO SCALE
NW	NORMAL WEIGHT
NWC	NORMAL WEIGHT CONCRETE
O	
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER, OUTSIDE DIMENSION
OF	OUTSIDE FACE
OH DR	OVERHEAD DOOR
OPNG	OPENING
OPP	OPPOSITE
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
P	
PAR	PARALLEL, PARAPET
PCC	PRECAST CONCRETE
PCA	PORTLAND CEMENT ASSOCIATION
PCF	POUNDS PER CUBIC FOOT
PCI	PRESTRESSED CONCRETE INSTITUTE
PCY	POUNDS PER CUBIC YARD
PED	PEDESTAL
PERP	PERPENDICULAR
PG	PLATE GIRDER
PL	PLATE
PLAM	PARALLAM
PLBG	PLUMBING
PLF	POUNDS PER LINEAL FOOT
PLYWD	PLYWOOD
PRCST	PRECAST
PREFAB	PREFABRICATE
PREFMD	PREFORMED
PRELIM	PRELIMINARY
PREP	PREPARATION
PROJ	PROJECT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT OR POST-TENSION(ED)(ING)
PUR	PURLIN(S)
PVC	POLYVINYL CHLORIDE
PVG	PAVING
Q	
QC	QUALITY CONTROL
QTY	QUANTITY
R	
R	RADIUS
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REBAR	REINFORCING STEEL BARS
REC	RECESSED
REF	REFERENCE, REFER TO
REFL	REFLECT
REINF	REINFORCE(D)(MENT)(ING)
REM	REMOVABLE
REQD	REQUIRED
REV	REVISION
RH	RIGHT HAND(ED), ROOF HATCH
RO	ROUGH OPENING
RTU	ROOF TOP UNIT
S	
S	SOUTH
SCHED	SCHEDULE
SDI	STEEL DECK INSTITUTE
SECT	SECTION
SE	STRUCTURAL ENGINEER
SER	STRUCTURAL ENGINEER OF RECORD
SF	SQUARE FOOT
SHT	SHAFT, SHEET
SIM	SIMILAR
SJI	STEEL JOIST INSTITUTE
SLBB	SHORT LEG BACK TO BACK
SLRS	SEISMIC LOAD RESISTING SYSTEM
SM	SHEET METAL, SMOOTH
SOG	SLAB ON GRADE
SP	SPACE, SUMP PIT
SPEC	SPECIFICATION
SQ	SQUARE
SST	STAINLESS STEEL
STAG	STAGGERED
STD	STANDARD
STIFF	STIFFENER
STIR	STIRRUP
STL	STEEL
STRUCT	STRUCTURAL, STRUCTURE
SUPT	SUPPORT
SUSP	SUSPEND(ED)(S)
SW	SHEAR WALL
SYM	SYMMETRICAL

ABBREVIATIONS	
T	TENSION
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TAN	TANGENT
TB	THROUGH BOLT
TD	TRENCH DRAIN
TEMP	TEMPORARY, TEMPERATURE
TENS	TENSION
TFF	TOP OF FINISH FLOOR
THD	THREAD
THK	THICK, THICKNESS
THRU	THROUGH
TO	TOP OF
TOB	TOP OF BEAM
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOG	TOP OF GRADE
TOJ	TOP OF JOIST
TOL	TOLERANCE
TOM	TOP OF MASONRY
TOP	TOP OF PARAPET
TOS	TOP OF SLAB, TOP OF STEEL
TOT	TOP OF TRUSS
TOW	TOP OF WALL
TRANS	TRANSVERSE
TRTD	TREATED
TYP	TYPICAL
U	
UNO	UNLESS NOTED OTHERWISE
V	
V	SHEAR
VAR	VARIATION, VARIES
VERT	VERTICAL
VERFY	VERIFY
W	
W	WEST, WIDE
WF	WIDE FLANGE
WL	WIND LOAD
WLD	WELDED
WP	WORK POINT, WATERPROOFING
WS	WATERSTOP
WWR	WELDED WIRE REINFORCEMENT
X	
XBRA	CROSSBRACING



04/24/2023

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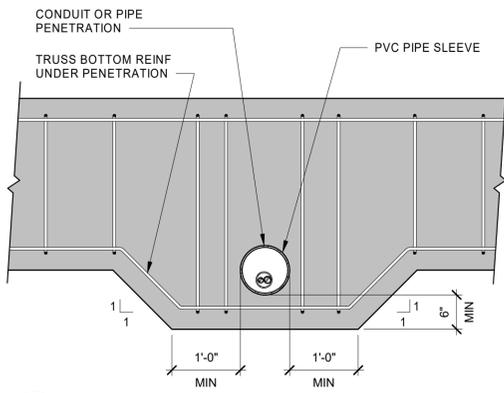
804 N. Fort Worth St.
Midland, TX

PROJECT NO.
40263.22

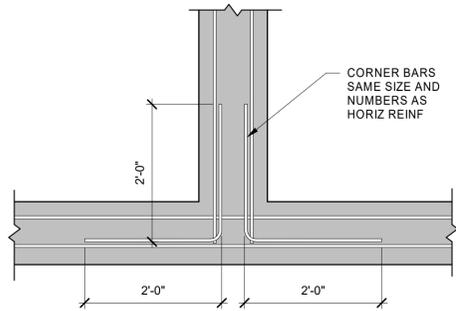
04/24/2023 Permit Set
DATE DESCRIPTION

Typical
Foundation
Details

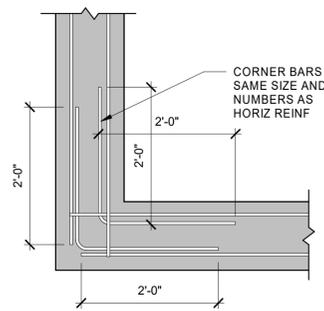
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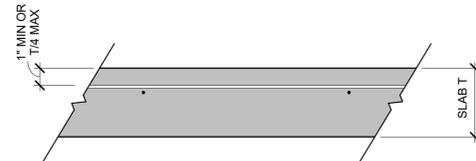
D1 TYPICAL PIPE PENETRATION
NTS



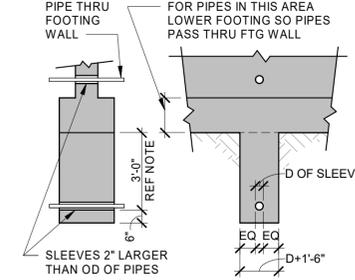
D2 TYPICAL INTERSECTION BAR
NTS



D3 TYPICAL CORNER BAR
NTS

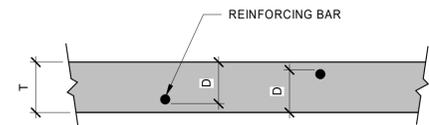


D4 TYPICAL REBAR PLACEMENT
NTS



NOTE:
FOR PIPES 3 FOOT OR LESS BELOW FOOTING, PROVIDE SLEEVE AND CONCRETE AS SHOWN; MORE THAN 3 FOOT COMPACT FILL OVER PIPE TO 95 PERCENT AS APPROVED BY SOILS ENGINEER, OR USE STEPPED FOOTING BELOW PIPE.

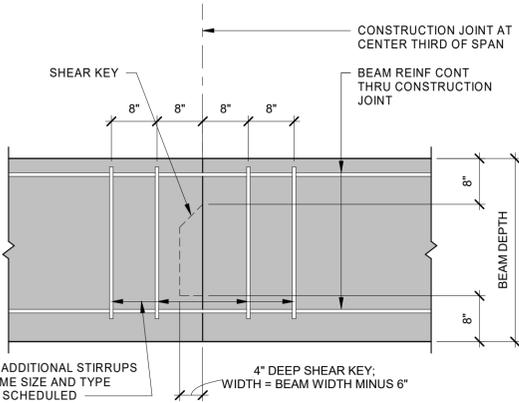
D5 EXCAVATIONS
NTS



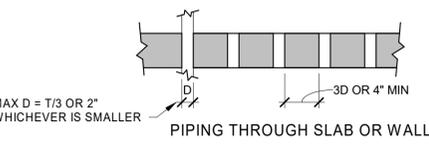
UNLESS OTHERWISE NOTED, REINFORCING SHALL BE PLACED AS SHOWN ON THE DRAWINGS WITHIN THE FOLLOWING TOLERANCE:

DEPTH, D, IN SLABS, JOISTS, BEAMS, WALLS, COLUMNS AND SIMILAR ELEMENTS WHERE D IS 24" OR LESS ±1/4"
WHERE D IS MORE THAN 24" ±1/2"
LONGITUDINAL LOCATION OF BENDS AND ENDS OF BARS ±2"
EXCEPT THAT SPECIFIED CONCRETE COVER AT ENDS OF MEMBERS SHALL NOT BE REDUCED.
FABRICATED DIMENSIONS OF TIES, STIRRUPS AND SPIRALS ±0-1/4"
OFFSET DIMENSIONS IN BENT BARS ±0-1/2"
DIMENSION FROM FACE OF SUPPORT TO LOCATION OF A TIE OR STIRRUP ±1"

C1 TOLERANCES FOR PLACING AND FABRICATION OF REINF BARS
NTS

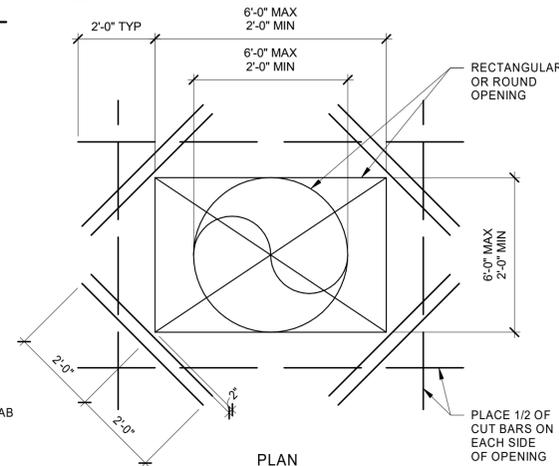


C2 CONSTRUCTION JOINT AT BEAM
NTS



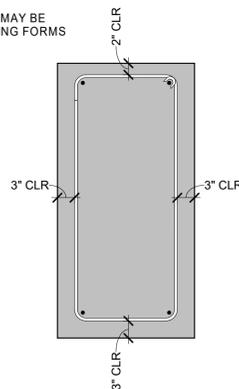
C3 PIPING AND CONDUIT IN OR THROUGH SLAB OR WALL
NTS

NOTE:
WHERE CLEAR DISTANCE BETWEEN SLEEVES IS IMPOSSIBLE, THIS AREA SHALL BE TREATED AS A SLAB OPENING PER TYPICAL DETAIL "OPENING IN SLAB ON GRADE"

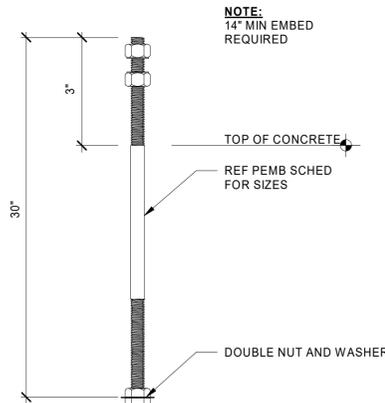


C4 OPENING IN SLAB ON GRADE
NTS

NOTE:
3" SIDE CLEARANCES MAY BE REDUCED TO 2" IF USING FORMS



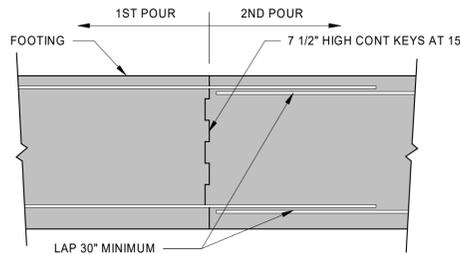
B4 TYPICAL GRADE BEAM COVER
NTS



B3 TYPICAL ANCHOR ROD
NTS

f _c (PSI)	BEAMS AND COLUMNS			WALLS AND SLABS			
	BAR SIZE	** TOP BARS	OTHERS	** TOP BARS	OTHERS	BAR SIZE	
3000	3	28	22	42	33	3	
	4	38	29	56	43	4	
	5	47	36	70	54	5	
	6	56	43	84	65	6	
	7	81	63	122	94	7	
	8	93	72	139	107	8	
	9	105	81	157	121	9	
	10	116	90	174	134	10	
	11	128	98	191	147	11	
	4000	3	25	19	37	28	3
		4	33	25	49	37	4
5		41	31	61	47	5	
6		49	37	73	56	6	
7		71	54	106	81	7	
8		81	62	121	93	8	
9		91	70	136	105	9	
10		101	78	151	116	10	
11		111	85	166	128	11	

* USE THIS SCHEDULE UNLESS NOTED OTHERWISE ON THE DRAWINGS
** TOP BARS ARE HORIZONTAL BARS SO PLACED THAT MORE THAN 12" OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR. HORIZONTAL BARS IN WALLS ARE TO BE PROVIDED WITH LAP LENGTHS AS REQUIRED FOR TOP BARS. VERTICAL BARS MAY BE CONSIDERED AS OTHER BARS

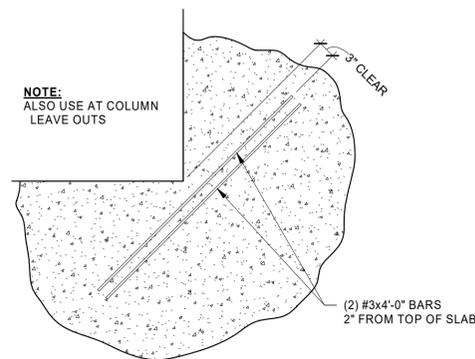


NOTE:
WELDED SPLICES REQUIRED FOR #14 AND LARGER BARS WHERE CONT FOOTING IS UNDER A WALL. LOCATE CONSTRUCTION JOINT AT 1/4 OF THE CLEAR OPENING WIDTH ABOVE FROM FACE OF OPENING, OR IN MIDDLE 1/3 OF THE DISTANCE BETWEEN COLUMNS.

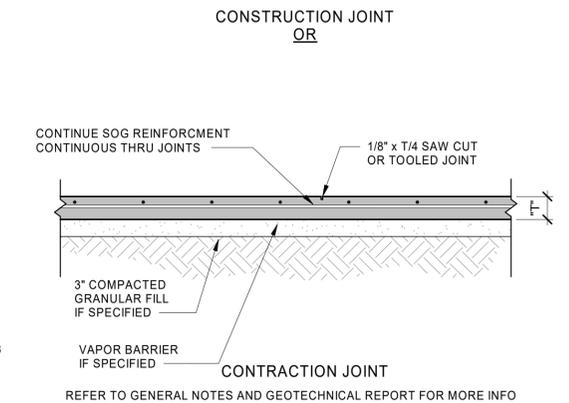
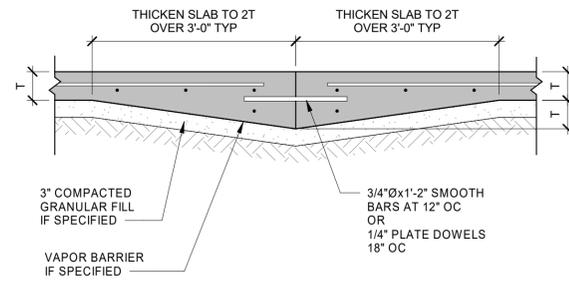
A1 CONTINUOUS FOOTING CONSTRUCTION JOINT
NTS

LOCATION	MIN COVER
UNFORMED SURFACE ADJACENT TO EXCAVATION	3"
SURFACES INSIDE OF OZONE CONTACTORS EXPOSED TO OZONE IN WATER OR AIR	3"
FORMED OR TOP SURFACES EXPOSED TO WEATHER OR SATURATED AIR, SUBMERGED OR IN CONTACT WITH EARTH, INCLUDING STIRRUPS, TIES OR SPIRALS	2"
OTHER LOCATIONS:	
BAR IN BEAMS OR GIRDERS, INCLUDING STIRRUPS AND COLUMN SPIRALS OR TIES	1 1/2"
SLABS, WALLS AND JOISTS	
#6 AND LARGER	1 1/2"
#5 AND SMALLER	1"

NOTE:
TOLERANCES FOR CONCRETE COVER AND THE FABRICATION AND PLACEMENT OF REINFORCEMENT SHALL CONFORM TO ACI 117.



A4 DETAIL AT RE-ENTRANT CORNER
NTS



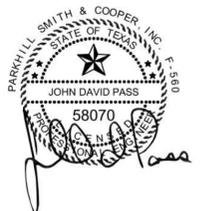
A5 TYPICAL CONSTRUCTION JOINTS
NTS

REFER TO GENERAL NOTES AND GEOTECHNICAL REPORT FOR MORE INFO

GENERAL 3D VIEW NOTES

1. 3D VIEWS ARE PROVIDED FOR A GENERAL UNDERSTANDING OF THE OVERALL STRUCTURAL SYSTEM. NOT ALL STRUCTURAL ELEMENTS ARE NECESSARILY SHOWN. REFER TO PLANS AND DETAILS FOR SPECIFIC STRUCTURAL CONDITIONS.

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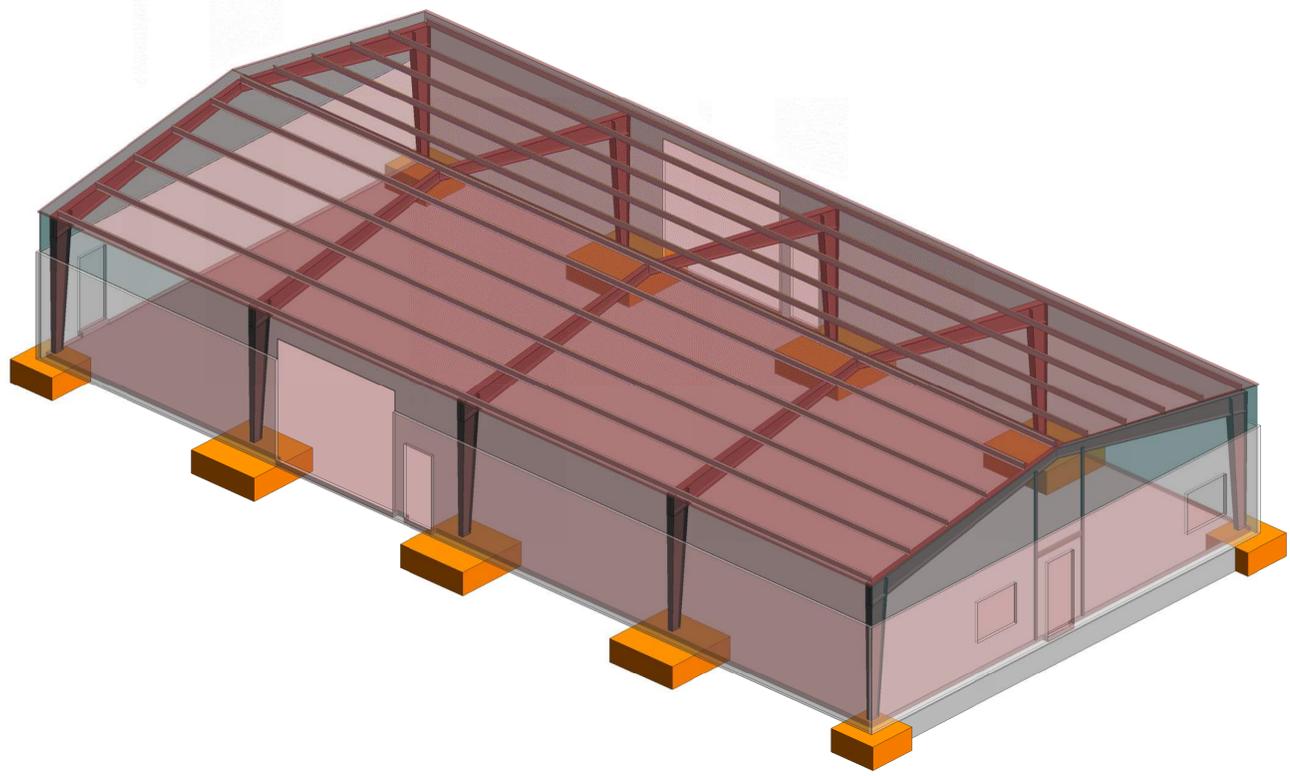
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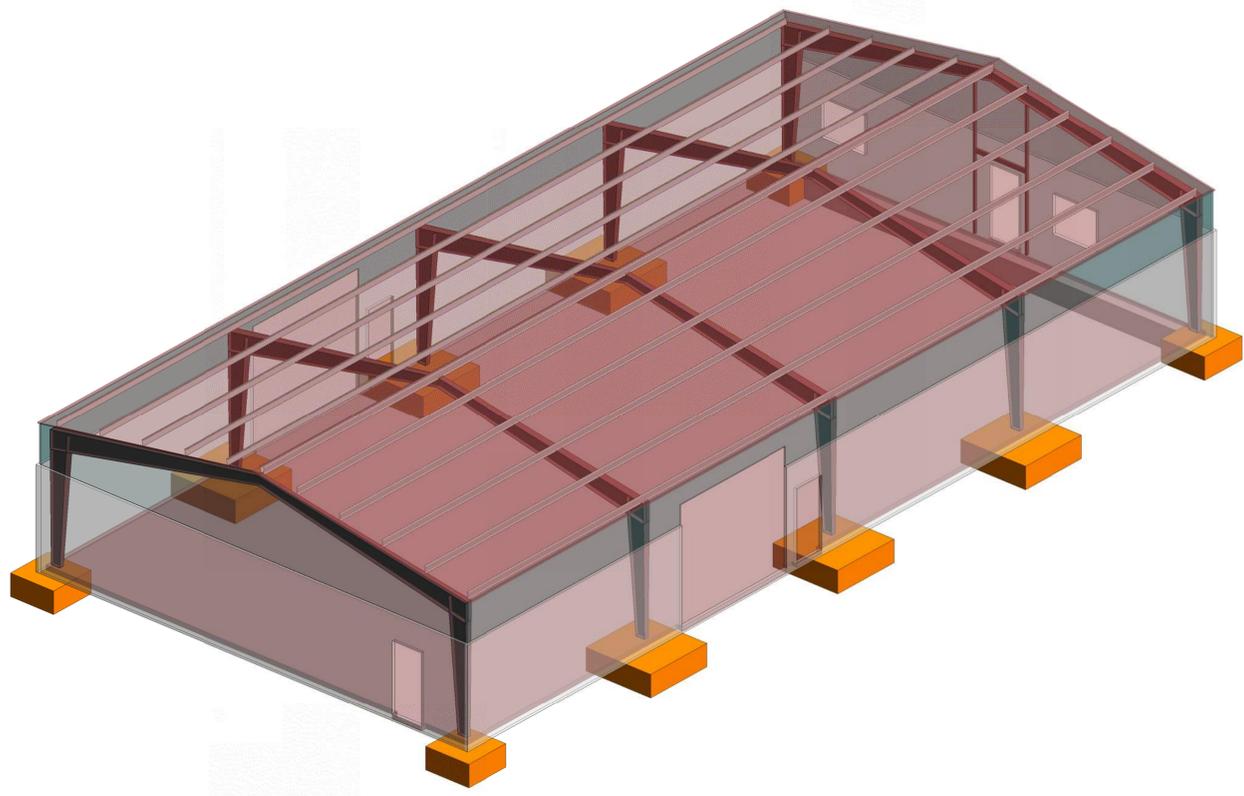
PROJECT NO.
40263.22

04/24/2023 Permit Set

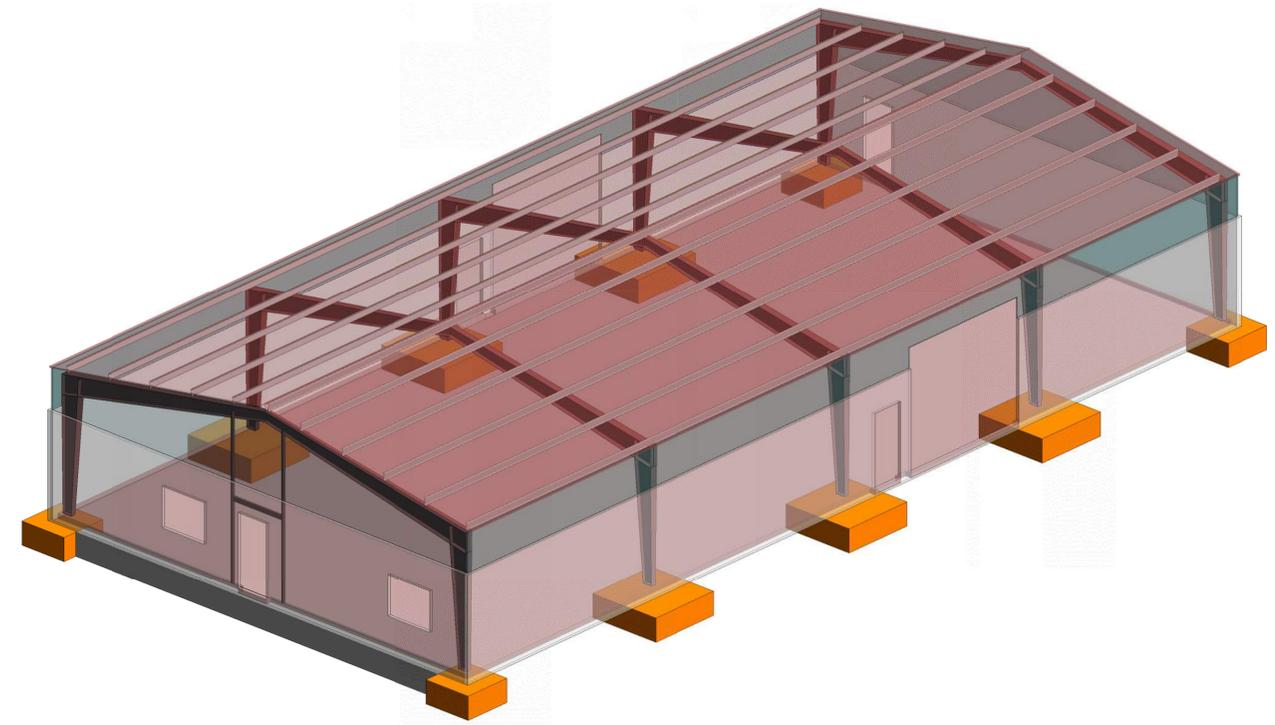
#	DATE	DESCRIPTION



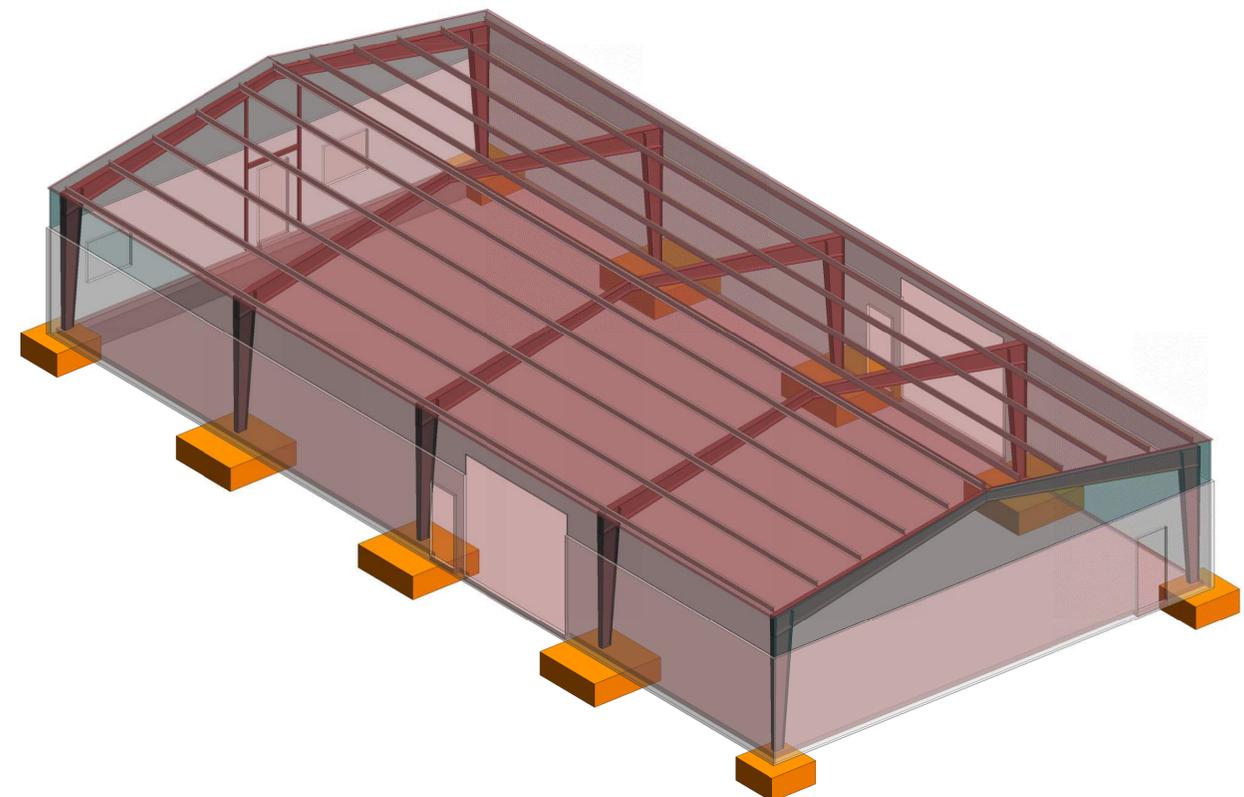
D1 View From NW Corner



D2 View From NE Corner



A1 View From SW Corner



A2 View Fron SE Corner

3D Views
S-901

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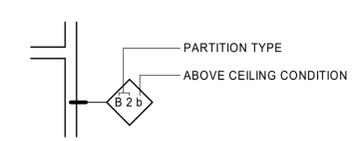
INTERIOR PARTITION SCHEDULE

	(PLAN)	PARTITION TYPE								
		1	2	3	4	5	6	7	8	
A	<p>METAL FRAMING WALL ASSEMBLY</p>	ASSEMBLY THICKNESS	3 3/4"	3 3/4"	4 7/8"	4 7/8"	7 1/4"	7 1/4"	9 1/4"	9 1/4"
		NON-STRUCTURAL METAL FRAMING	2 1/2"	2 1/2"	3 5/8"	3 5/8"	6"	6"	8"	8"
		SOUND-ATTENUATION BLANKETS		REQ.		REQ.		REQ.	REQ.	REQ.
		UL DESIGN ASSEMBLY	U465	U465	U465		U465	U465	U465	U465
		FIRE RATING (IF REQUIRED BY CODE SHEET)	1 HOUR	1 HOUR	1 HOUR	NR	1 HOUR	1 HOUR	1 HOUR	1 HOUR
		STC RATING	35	48	40	46		51		
B	<p>METAL FRAMING WALL ASSEMBLY</p>	ASSEMBLY THICKNESS	3 1/8"	3 1/8"	4 1/4"	4 1/4"	6 5/8"	6 5/8"	8 5/8"	8 5/8"
		NON-STRUCTURAL METAL FRAMING	2 1/2"	2 1/2"	3 5/8"	3 5/8"	6"	6"	8"	8"
		SOUND-ATTENUATION BLANKETS		REQ.		REQ.		REQ.	REQ.	REQ.
		UL DESIGN ASSEMBLY								
		FIRE RATING (IF REQUIRED BY CODE SHEET)	NR	NR	NR	NR	NR	NR	NR	NR
		STC RATING				34		37		
C	<p>METAL FRAMING WALL ASSEMBLY</p>	ASSEMBLY THICKNESS	5"	5"	6 1/8"	6 1/8"	8 1/2"	8 1/2"	10 1/2"	10 1/2"
		NON-STRUCTURAL METAL FRAMING	2 1/2"	2 1/2"	3 5/8"	3 5/8"	6"	6"	8"	8"
		SOUND-ATTENUATION BLANKETS		REQ.		REQ.		REQ.	REQ.	REQ.
		UL DESIGN ASSEMBLY	U411	U411	U411	U411	U411	U411	U411	U411
		FIRE RATING (IF REQUIRED BY CODE SHEET)	2 HOUR	2 HOUR	2 HOUR					
		STC RATING		57		49		54		
D	<p>SHAFT WALL ASSEMBLY</p>	ASSEMBLY THICKNESS	3 1/8"	3 1/8"	4 5/8"	4 5/8"	6 5/8"	6 5/8"		
		NON-STRUCTURAL METAL FRAMING	2 1/2"	2 1/2"	4"	4"	6"	6"		
		SOUND-ATTENUATION BLANKETS		REQ.		REQ.		REQ.		
		UL DESIGN ASSEMBLY	U499	U499	U499	U499	U499	U499		
		FIRE RATING (IF REQUIRED BY CODE SHEET)	1 HOUR							
		STC RATING	34	42	39	47		53		
E	<p>SHAFT WALL ASSEMBLY</p>	ASSEMBLY THICKNESS	3 3/4"	3 3/4"	5 1/4"	5 1/4"	7 1/4"	7 1/4"		
		NON-STRUCTURAL METAL FRAMING	2 1/2"	2 1/2"	4"	4"	6"	6"		
		SOUND-ATTENUATION BLANKETS		REQ.		REQ.		REQ.		
		UL DESIGN ASSEMBLY	U497	U497	U497	U497	U497	U497		
		FIRE RATING (IF REQUIRED BY CODE SHEET)	2 HOUR							
		STC RATING	39	47		51		53		
F	<p>CHASE WALL ASSEMBLY</p>	ASSEMBLY THICKNESS	PER PLAN							
		NON-STRUCTURAL METAL FRAMING	2 1/2"	2 1/2"	3 5/8"	3 5/8"	6"	6"		
		SOUND ATTENUATION BLANKETS		REQ.		REQ.		REQ.		
		UL DESIGN ASSEMBLY	V488	V488	V488	V488	V488	V488		
		FIRE RATING (IF REQUIRED BY CODE SHEET)	1 HOUR							
		STC RATING		57		60				

	SECTION	ABOVE CEILING CONDITION (SECTION)	
		1	2
a		REFER TO PARTITION TERMINATION AT DECK	
		UNDERSIDE OF STRUCTURE OR DECK	
b		DEFLECTION TRACK	
		NON-STRUCTURAL METAL FRAMING	
c		CEILING AS SCHEDULED	
		SOUND ATTENUATION BLANKET AS SCHEDULED	
d		GYPSUM BOARD FULL HEIGHT TO DECK	
		NON-STRUCTURAL METAL FRAMING	
e		CEILING AS SCHEDULED	
		NON-STRUCTURAL METAL FRAMING	
f		GYPSUM BOARD - REFER TO PARTITION TYPE FOR LOCATION	
		CEILING AS SCHEDULED	

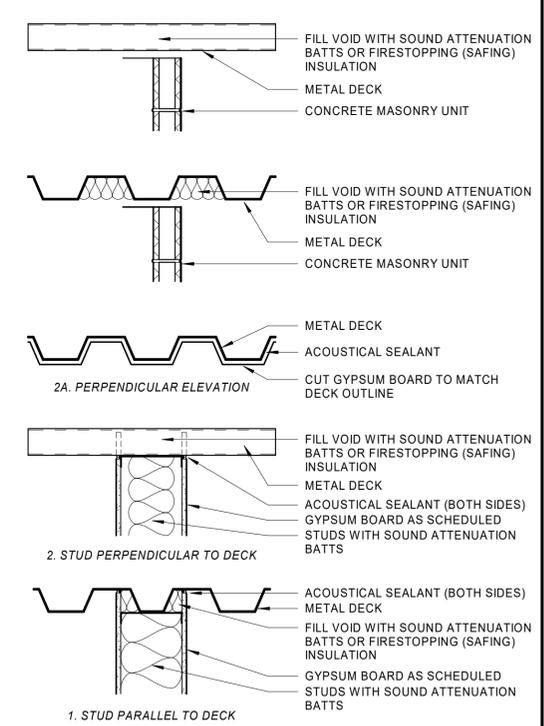
PARTITION GENERAL NOTES

THE FOLLOWING PARTITION GRAPHIC SYMBOL AND THREE PART NOTATION SYSTEM IS USED IN THE CONSTRUCTION DOCUMENTS FOR THIS PROJECT. NOTE: THE PARTITION CONSTRUCTION WILL MAINTAIN ITS DESIGNATION TO THE POINT OF AN INTERSECTING PARTITION. IF NO CHANGE IN DESIGNATION IS SHOWN BEYOND THE INTERSECTION, THE PREVIOUS PARTITION CONSTRUCTION DESIGNATION APPLIES. REFER TO CODE PLAN G-050 FOR RATED WALLS.



- WHERE SOUND-ATTENUATION BLANKETS ARE SCHEDULED :
 - INSTALL ACOUSTICAL SEALANT AT ALL PENETRATIONS PER MANUFACTURER'S INSTRUCTIONS AT TOP AND BOTTOM OF WALLS (BOTH SIDES).
 - PUTTY PADS AT ALL WALL PENETRATIONS INCLUDING ELECTRIC OUTLETS, IF BACK BOXES.
- ALL ASSEMBLY THICKNESSES LISTED IN THE PARTITION TYPES ARE BASED ON 5/8" THICK GYPSUM BOARD. ALTERNATE GYPSUM BOARD THICKNESSES WILL HAVE A DIFFERENT ASSEMBLY THICKNESS.
- WHERE RATED ASSEMBLY EXTENDS TO STRUCTURE ABOVE PROVIDE UL APPROVED FIRE RATED HEAD OF WALL ASSEMBLY TO MATCH RATING OF WALL. WALL HEIGHTS EXCEEDING STUD MANUFACTURER'S MAXIMUM (LIMITING) SPAN USING 5PSF LATERAL LOADING SHALL BE BRACED TO STRUCTURE ABOVE. (LAY-IN CEILINGS ARE NOT ACCEPTABLE BRACING, HARD CEILINGS ARE ACCEPTABLE).
- "STRUCTURE ABOVE" (AS NOTED IN THE PARTITION CONDITIONS) IS DEFINED AS THE UNDERSIDE OF ONE OR MORE OF THE FOLLOWING:
 - COMPOSITE FLOOR SLAB
 - STAIR TREADS/RISERS
 - METAL ROOF DECK
 - STEEL BEAMS
- IN NO CASE SHALL THE BOTTOM OF STEEL JOISTS BE CONSIDERED BOTTOM OF STRUCTURE ABOVE
- NR = NOT RATED

PARTITION TERMINATION AT DECK



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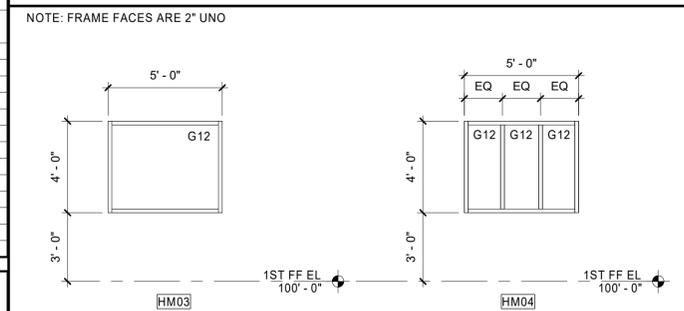
PROJECT NO.
40263.22

04/24/2023 PERMIT SET
DATE DESCRIPTION

DOOR SCHEDULE

MARK	PR	DOOR			FIRE RATING	FRAME		DETAILS*			HARDWARE SET	REMARKS*
		WIDTH ¹	HEIGHT ¹	CONSTR ²		TYPE ³	GLAZING	CONSTR ⁴	SIZE ⁵	HEAD		
101A		3'-0"	7'-0"	HMPF	HG	G12						
101B		3'-0"	7'-0"	SCLP	F	-						
102		3'-0"	7'-0"	SCLP	F	-						
103		3'-0"	7'-0"	SCLP	F	-						
104		3'-0"	7'-0"	SCLP	F	-						
105		3'-0"	7'-0"	SCLP	F	-						
107B		3'-0"	7'-0"	HMPF	F	-						
107D		3'-0"	7'-0"	HMPF	F	-						
107F		3'-0"	7'-0"	HMPF	F	-						
108		3'-0"	7'-0"	SCLP	F	-						
111		2'-6"	5'-10"	SCLP	F	-						
OH01		14'-0"	12'-0"	HMPF	OH2							
OH02		14'-0"	12'-0"	HMPF	OH2							

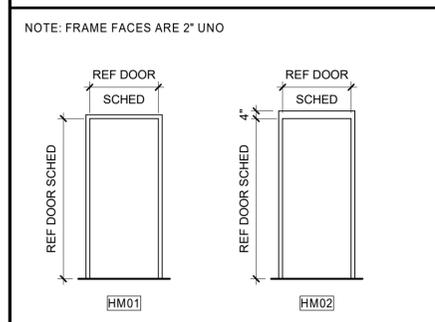
ALUMINUM FRAME SCHEDULE



GLAZING SCHEDULE

MARK	TYPE
G12	LOW-E COATED, TINTED INSULATING GLASS

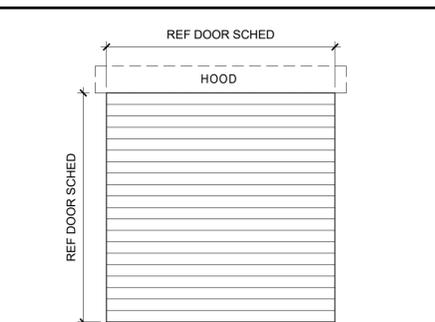
HOLLOW METAL FRAME SCHEDULE



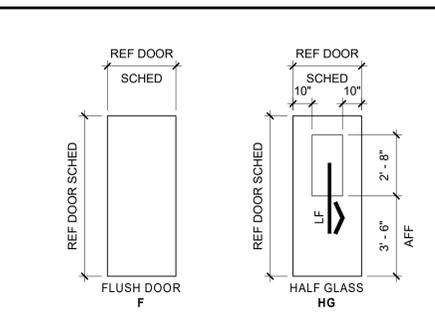
DOOR SCHEDULE FOOTNOTES X=EXISTING

- DOOR SIZE
SIZE INDICATED IS NOMINAL. REDUCTION SHALL BE MADE FOR THRESHOLD & EDGE CLEARANCES. ALL DOORS ARE 1 3/4" THICK UNO.
- DOOR CONSTRUCTION
HMPF = HOLLOW METAL, PAINT FINISH
SCLP = SOLID CORE, PLASTIC LAMINATE
- DOOR TYPE
F = FLUSH
OH = OVERHEAD DOOR
HG = HALF GLASS
- FRAME CONSTRUCTION
REFER TO DOOR FRAME SCHEDULES
HMPF = HOLLOW METAL, PAINT FINISH
- DETAIL # → A1/A-701 → SHEET #
= SIMILAR
- REMARKS
MISCELLANEOUS (GENERAL NOTES)
M1 = SEE STANDARD DOOR DETAILS
M2 = OVERHEAD COILING DOOR
M3 = PROVIDE CARD READER
- HARDWARE SET

OVERHEAD DOOR TYPE SCHEDULE



DOOR TYPE SCHEDULE



GENERAL NOTES

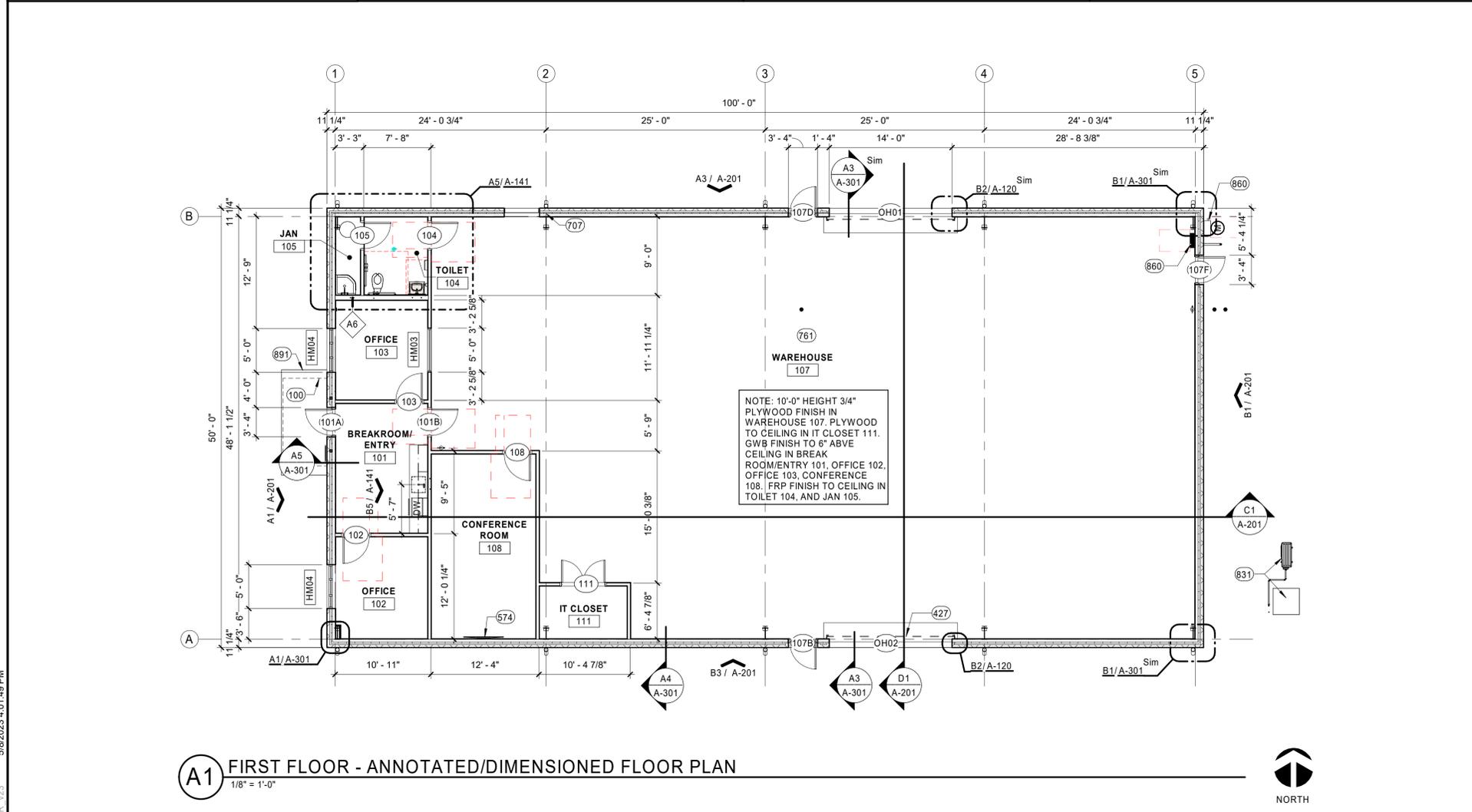
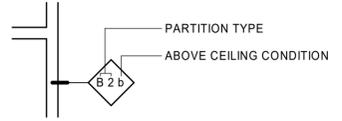
- REFER TO ACCESSIBILITY STANDARDS SHEETS FOR TYPICAL MOUNTING HEIGHTS/LOCATIONS FOR TOILET ROOM ACCESSORIES.
- ALL INTERIOR WALLS ARE A4a UNLESS NOTED OTHERWISE. REFER TO SHEET A-002 FOR INTERIOR PARTITION SCHEDULE.
- FIRE EXTINGUISHERS (IFC SECTION 906 AND NFPA 10; CHAPTER 6 AND TABLE 6.2.1.1, CLASS A - LIGHT HAZARD OCCUPANCY) MAXIMUM FLOOR AREA FOR UNIT - 11,250 SF; MAXIMUM TRAVEL DISTANCE TO EXTINGUISHER - 75 FT.
- LOW-ENERGY BUILDINGS SHALL BE EXEMPT FROM THE BUILDING THERMAL ENVELOPE PREVISIONS OF SECTION IECC 2015 - C402.
- ALL DIMENSIONS ARE TO OUTSIDE FACE OF Z-GIRT, OUTSIDE FACE OF STUD, FACE OF SLAB, OR CENTERLINE OF STRUCTURE, UNO.
- GENERAL CONTRACTOR SHALL VERIFY AND CLARIFY ALL DIMENSIONAL DISCREPANCIES FROM THIS OR ANY PLAN, SECTION, OR ELEVATION W/ THE ARCHITECT PRIOR TO CONSTRUCTION.
- REFER TO WALL SECTIONS AND ENLARGED DETAILS FOR ADDITIONAL DIMENSIONS.
- CEILING HEIGHTS SHALL BE 9'-0" ABOVE FINISH FLOOR UNO.
- COORDINATE WITH MEP DRAWINGS FOR LOCATIONS OF FIXTURES. LOCATE AS SHOWN ON ARCHITECTURAL PLANS AND DETAILS. NOTIFY ARCHITECT OF CONFLICTS PRIOR TO CONSTRUCTION.

KEY NOTES

- AS INDICATED BY: (#)
- MAPES CANOPY, SUPER LUMIDECK HANGER ROD CANOPY, FLAT SOFFIT, 48"x108"x8", PREP FOR ATTACHMENT OF SURFACE MOUNTED LETTERS IN FASCIA
 - OH DR. AS SCHED
 - WALL MOUNTED TV, PROVIDE BLOCKING, COORDINATE WITH OWNER, OFOI
 - STL MAINFRAME, REF PEMB MANU
 - CONC SLAB, REF STRUCT
 - MECH EQUIP, REF MECH
 - REF ELECT
 - SIDEWALK, REF CIV

PARTITION GENERAL NOTES

THE FOLLOWING PARTITION GRAPHIC SYMBOL AND THREE PART NOTATION SYSTEM IS USED IN THE CONSTRUCTION DOCUMENTS FOR THIS PROJECT. NOTE: THE PARTITION CONSTRUCTION WILL MAINTAIN ITS DESIGNATION TO THE POINT OF AN INTERSECTING PARTITION. IF NO CHANGE IN DESIGNATION IS SHOWN BEYOND THE INTERSECTION, THE PREVIOUS PARTITION CONSTRUCTION DESIGNATION APPLIES. REFER TO CODE PLAN G-050 FOR RATED WALLS.



A1 FIRST FLOOR - ANNOTATED/DIMENSIONED FLOOR PLAN
1/8" = 1'-0"

GENERAL CONSTRUCTION INFORMATION

APPLICABLE CODES:

BUILDING	IBC 2018
PLUMBING	IPC 2018
MECHANICAL	IMC 2018
ELECTRICAL	NEC 2017
FIRE	IFC 2018
ENERGY	IECC 2015
ACCESSIBILITY	2012 TAS, 2010 ADA/SAD
OTHER	

CODE DATA SUMMARY

BUILDING: WAREHOUSE			
OCCUPANCY CLASSIFICATION	GROUP S-1 MODERATE HAZARD STORAGE (IBC SEC 311.2)		
CONSTRUCTION TYPE	TYPE VB (IBC TABLE 504.3)		
BUILDING AREA	4,896 SF		
BUILDING HEIGHT	16'-1 1/2"		
FIRE SUPPRESSION	NO		
ALLOWABLE HEIGHTS & AREAS	GROUP S-1 - TYPE VB (IBC TABLES 504.3, 504.4, 506.2)		
ALLOWABLE HEIGHT	55 FT AND 2 STORIES		
ALLOWABLE AREA	17,500 SF		
EXITS REQUIRED	2 REQUIRED, 4 PROVIDED (IBC TABLE 1006.3.2)		
EXIT TRAVEL DISTANCE	200' MAX, 43' PROVIDED - S-1 NO SPRINKLER SYSTEM (IBC TABLE 1017.2)		
OCCUPANT LOADS (OL) - IBC TABLE 1004.5	FACTOR	AREA	LOAD
WAREHOUSE	500 GR	4,896	10

FIRE PROTECTION RQMTS (TABLE 601)

CONSTRUCTION TYPE: TYPE V-B

STRUCTURAL FRAME	0 HOUR(S)
EXTERIOR BEARING WALLS	0 HOUR(S)
INTERIOR BEARING WALLS	0 HOUR(S)
FLOOR CONSTRUCTION	0 HOUR(S)
ROOF CONSTRUCTION	0 HOUR(S)
EXTERIOR WALLS (TABLE 602)	0 HOUR(S) TYPE OF FIRE DOORS 0 HR.
CORRIDORS (TABLE 1020.1)	0 HOUR(S) W/ SPRINKLER SYSTEM

SPRINKLED BUILDING: NO



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DATE DESCRIPTION

Floor Plan, Code, Door Schedule

A-111



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#	DATE	DESCRIPTION

Finish Plan - First Floor

A-115

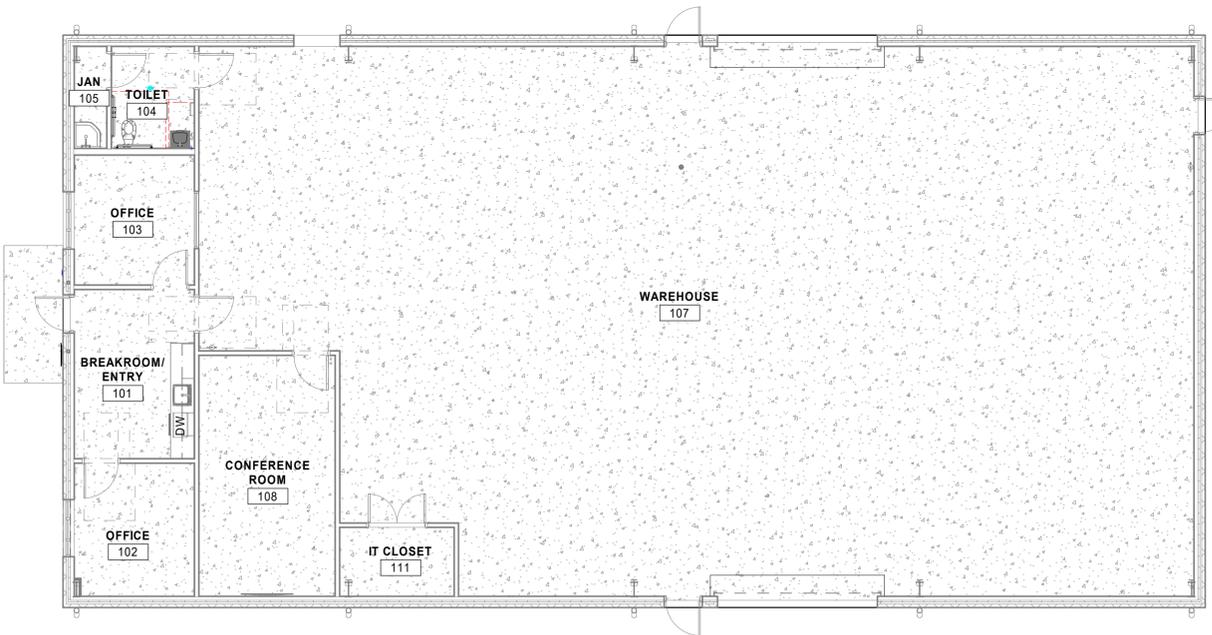
INTERIOR MATERIAL LEGEND						
MARK	DESCRIPTION	MANUFACTURER	STYLE/COLLECTION	COLOR	REMARKS	
06 41 16 - PLASTIC LAMINATE CLAD ARCHITECTURAL CABINETS						
PLAM1	PLASTIC LAMINATE	WILSONART	W474	UPTOWN URBAN WALNUT		
PLAM2	PLASTIC LAMINATE	WILSONART	Q4012	SANGDA FALLS		
09 33 00 CONCRETE SEALING						
CON1	SEALED CONCRETE	SHERWIN WILLIAMS (H&C)	CLARISHIELD	CLEAR - NATURAL LOOK	SHARK GRIP ADDITIVE IN WAREHOUSE	
09 50 00 - ACOUSTIC CEILING TILE						
ACT1	ACOUSTIC CEILING TILE	ARMSTRONG CEILINGS	ULTIMA LAY-IN	WHITE		
		SIZE 24"X24"				
09 65 13 - RESILIENT WALL BASE						
RB1	RUBBER BASE	ROPE	TRADITIONAL 4" COVE	CREEKBED 640		
		PROFILE 4" COVE WITH TOE				
09 77 00 - SPECIAL WALL SURFACING						
FRP1	FRP WALL PANEL	MARLITE	PEBBLED FRP	P 100 WHITE		
09 91 23 - INTERIOR PAINTING						
PT1	PAINT	SHERWIN-WILLIAMS	SW 7077	ORIGINAL WHITE		
PT2	PAINT	SHERWIN-WILLIAMS	SW 6104	KAFFEE		

GENERAL NOTES

- A. THE INTERIOR MATERIAL LEGEND LISTS THE COLORS, PATTERNS AND TEXTURES REQUIRED FOR INTERIOR FINISHES, INCLUDING BOTH FACTORY APPLIED COLORS THAT ARE EXPOSED TO VIEW IN THE FINISHED CONSTRUCTION. SPECIFIC LOCATIONS WHERE THE VARIOUS MATERIALS ARE REQUIRED ARE INDICATED IN DRAWING. WHEN COLOR IS NOT DESIGNATED FOR ITEMS, THE CONTRACTOR SHALL ASK FOR A COLOR SELECTION.
- B. ALL DISSIMILAR FLOORING SHALL BE TERMINATED IN THE CENTERLINE OF THE DOOR UNO, AND WITH AN ADA COMPLIANT TRANSITION IN HEIGHT REQUIRED TO ACCOMMODATE HEIGHT OF MATERIAL AS SPECIFIED IN THE PROJECT MANUAL.
- C. LENGTH OF FLOORING PRODUCT SHALL BE INSTALLED AS INDICATED BY THE DIRECTION OF ARROWS UNO.
- D. INTERIOR WALL COLOR SHALL APPLY TO THE ENTIRE WALL SURFACE, INCLUDING REVEALS, VERTICAL FURRED SPACES, GRILLES, DIFFUSERS, ELECTRICAL AND ACCESS PANELS, AND ALL PIPING AND CONDUIT ADJACENT TO WALL SURFACES UNLESS OTHERWISE SPECIFIED. ITEMS NOT SPECIFIED IN OTHER PARAGRAPHS SHALL BE PAINTED TO MATCH ADJACENT WALL SURFACE.
- E. CEILING COLORS SHALL APPLY TO CEILING SURFACES INCLUDING SOFFITS, FURRED DOWN AREAS, GRILLES, DIFFUSERS, REGISTERS, AND ACCESS PANELS.

GENERAL FINISH NOTES

- FLOORS:**
- A. FLOORS SHALL BE (CON1) SEALED CONCRETE UNO.
 - B. WAREHOUSE FLOOR SHALL BE (CON1) SEALED CONCRETE WITH SHARKGRIP SLIP RESISTANT ADDITIVE.
- BASE:**
- A. BASE SHALL BE (RB1) UNO.
 - B. (RB1) SHALL SERVE AS BASE IN RESTROOMS.
 - C. WAREHOUSE WILL RECEIVE NO BASE.
- WALLS:**
- A. DRYWALL WALLS SHALL BE PAINTED (PT1) UNO.
 - B. RESTROOM WALLS SHALL RECEIVE (FRP1) FROM FLOOR TO CEILING.
 - C. JANITOR CLOSETS SHALL RECEIVE (FRP1) FROM FLOOR TO CEILING ON ALL WET WALLS.
 - D. IT CLOSET SHALL RECEIVE PLYWOOD FROM FLOOR TO CEILING.
- CEILINGS:**
- A. ACOUSTICAL CEILING SHALL BE (ACT1) UNO.
- MILLWORK:**
- A. UPPER AND LOWER MILLWORK SHALL BE (PLAM1) UNO.
 - B. COUNTERTOPS SHALL BE (PLAM2) UNO.
- MISCELLANEOUS:**
- A. DOOR FRAME SHALL BE PAINTED (PT2) UNO.
 - B. INTERIOR DOORS SHALL BE (PLAM1) UNO.



A1 FIRST FLOOR - FINISH PLAN
1/8" = 1'-0"



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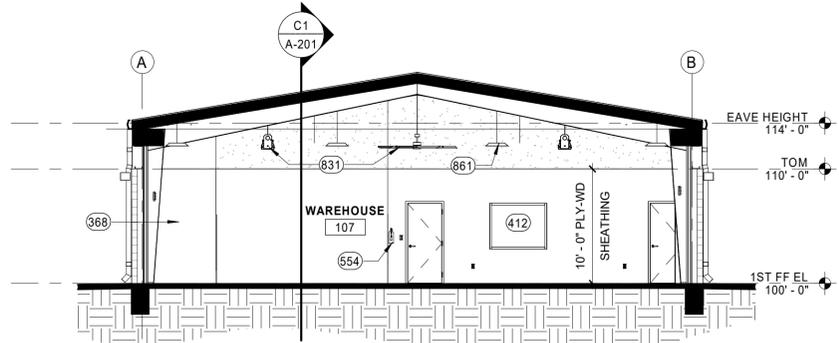
Exterior Elevations,
Building Sections
A-201

GENERAL NOTES

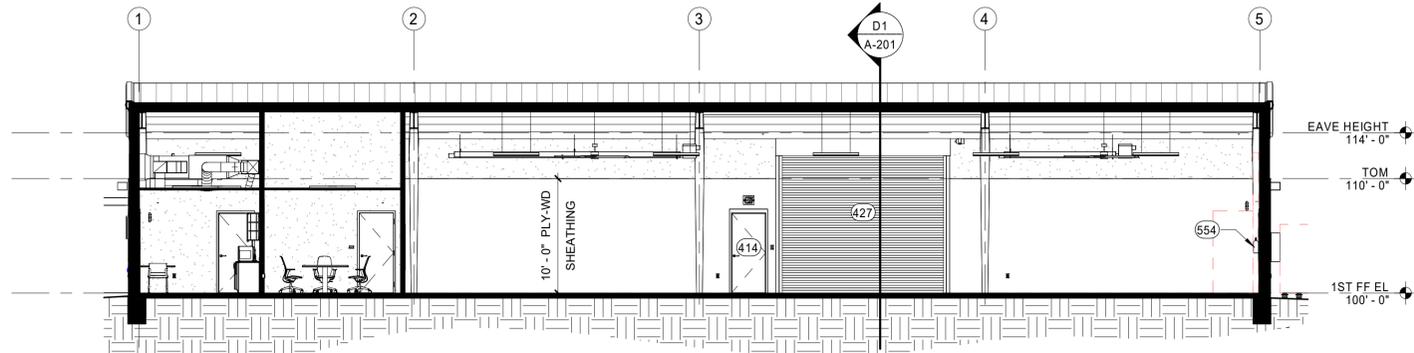
- A. GENERAL CONTRACTOR SHALL VERIFY AND CLARIFY ALL DIMENSIONAL DISCREPANCIES FROM THE OR ANY PLAN, SECTION, OR ELEVATION W/ THE ARCHITECT PRIOR TO CONSTRUCTION.
- B. ALL EXPOSED FRAMES TO BE WRAPPED WITH BREAK METAL AROUND FRAMING. THIS IS TO PREVENT ANY LEDGES FOR BRIDS OR INSECTS TO NEST.
- C. ARCHITECTURAL ELEVATION 100'-0" TO BE REFERENCED AS FINISHED FLOOR ELEVATION. REFER TO CIVIL FOR TRUE ELEVATION DATUM.
- D. FAN TO BE INSTALLED AS HIGH AFF. TO PROVIDE CLEARANCE FOR VEHICLES, BLADES, AND CEILING ABOVE.
- E. COORDINATE LIGHT FIXTURE HEIGHT TO MAXIMIZE HEIGHT AFF. AND TO NOT CAUSE SHADOW BELOW.

KEY NOTES

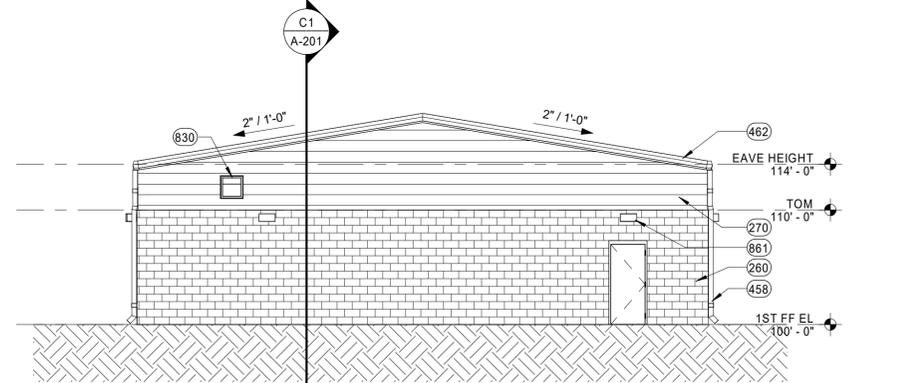
- AS INDICATED BY: (#) —
- 100 MAPES CANOPY, SUPER LUMIDECK HANGER ROD CANOPY, FLAT SOFFIT, 48"X108"X8", PREP FOR ATTACHMENT OF SURFACE MOUNTED LETTERS IN FASCIA
 - 103 MIDLAND COUNTY LOGO
 - 104 EXTERIOR BUILDING SIGNAGE
 - 260 4" CMU VENEER
 - 270 SINGLE SKIN METAL SIDING
 - 368 FULL HEIGHT PLYWOOD SHEATHING
 - 412 ALUM STORE FRONT & GLAZING, AS SCHED
 - 414 DOOR, AS SCHED
 - 427 OH DR, AS SCHED
 - 458 METAL DOWNSPOUT
 - 461 STANDING SEAM ROOF MATERIAL
 - 462 PEMB RAKE TRIM
 - 554 FIRE EXTINGUISHER
 - 830 REF MECH
 - 831 MECH EQUIP, REF MECH
 - 860 REF ELECT
 - 861 LIGHT FIXTURE, REF ELECT



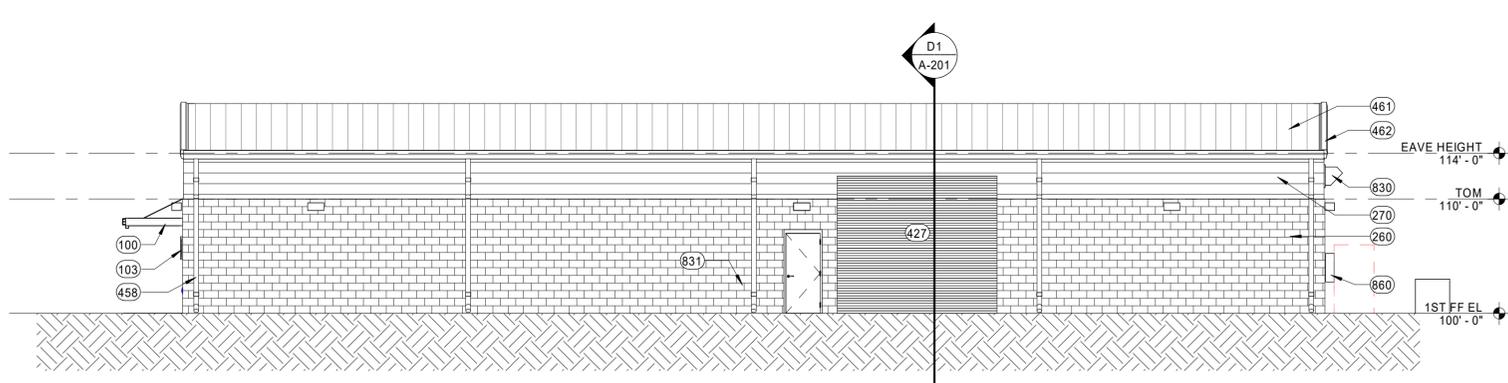
D1 BUILDING SECTION
1/8" = 1'-0"



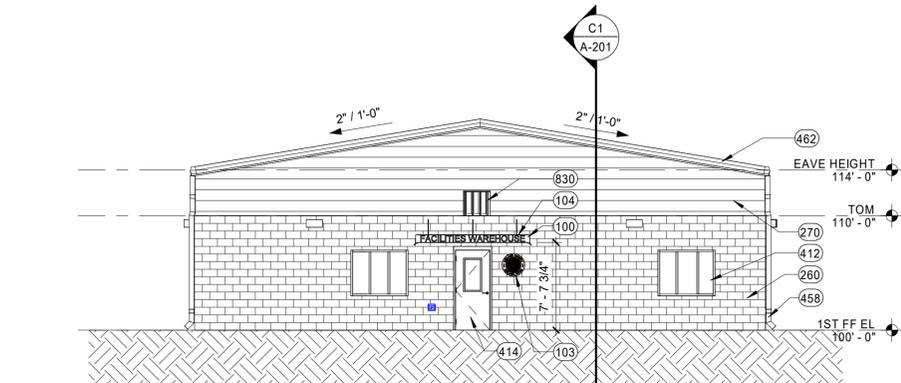
C1 BUILDING SECTION
1/8" = 1'-0"



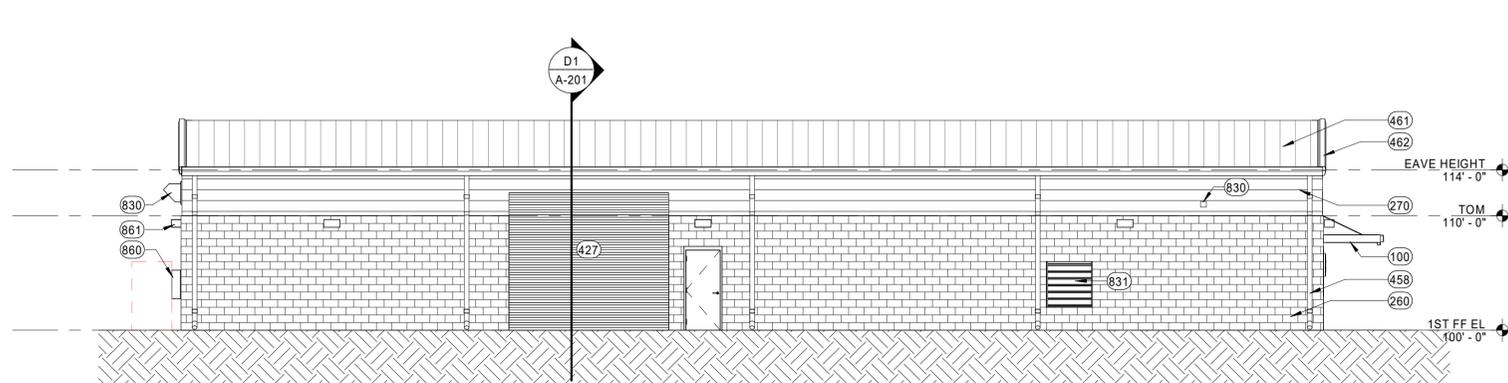
B1 EAST ELEVATION
1/8" = 1'-0"



B3 SOUTH ELEVATION
1/8" = 1'-0"



A1 WEST ELEVATION
1/8" = 1'-0"



A3 NORTH ELEVATION
1/8" = 1'-0"

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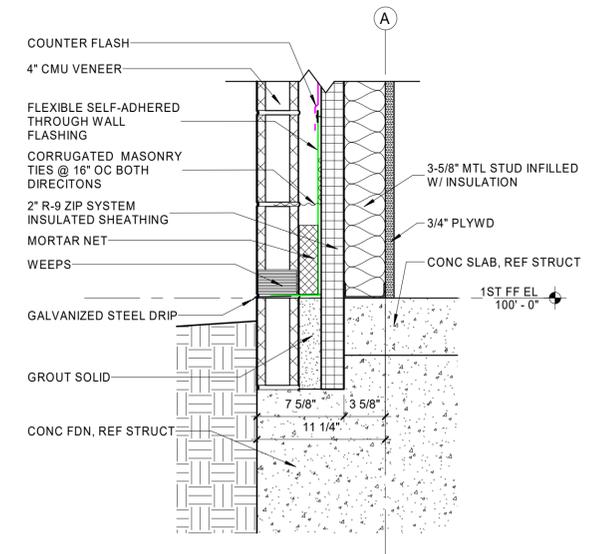


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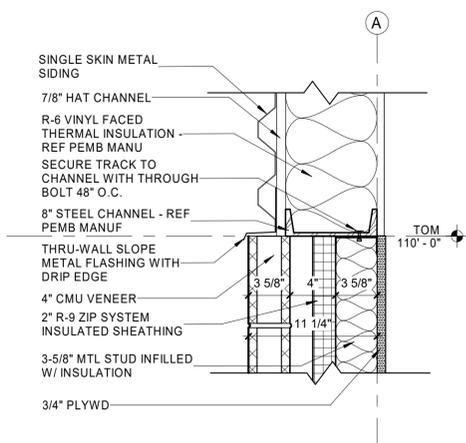
PROJECT NO.
40263.22

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DATE DESCRIPTION

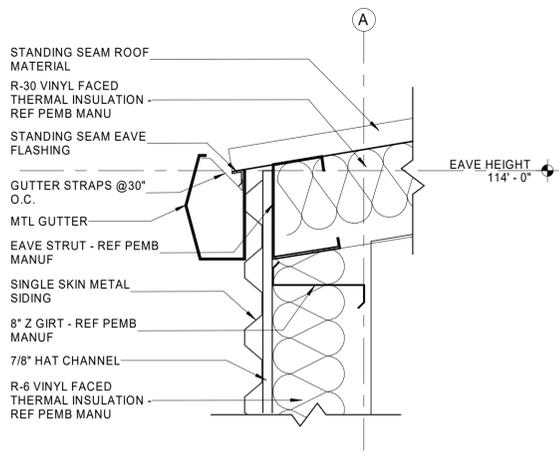
**Wall Sections,
Details**
A-301



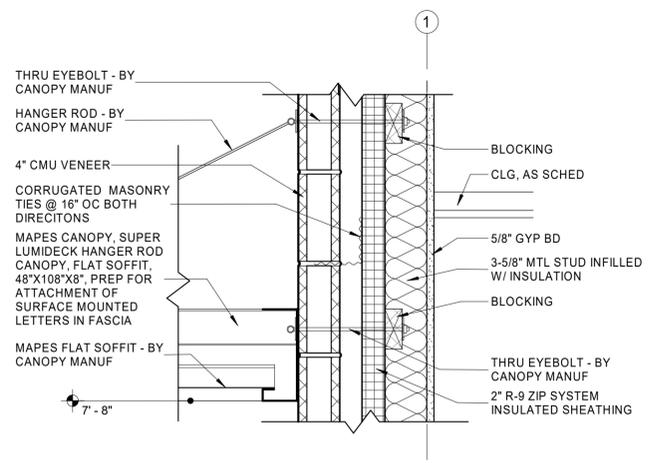
C5 DETAIL
1 1/2" = 1'-0"



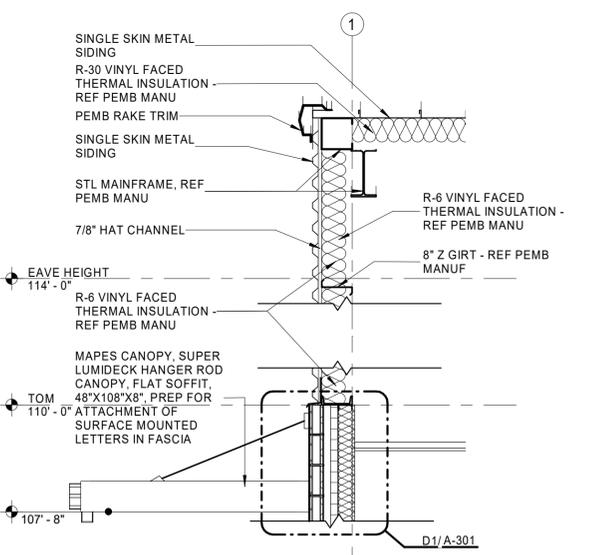
D4 DETAIL
1 1/2" = 1'-0"



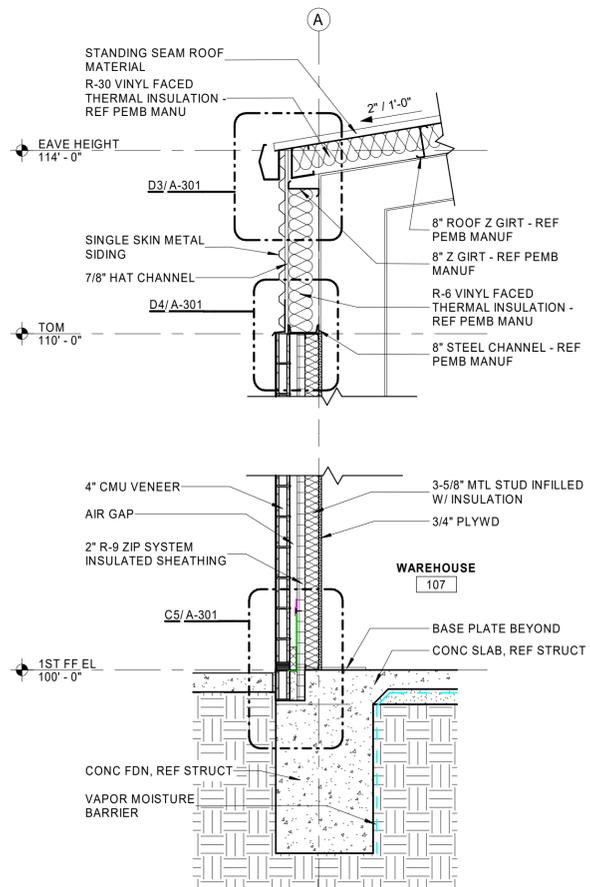
D3 DETAIL
1 1/2" = 1'-0"



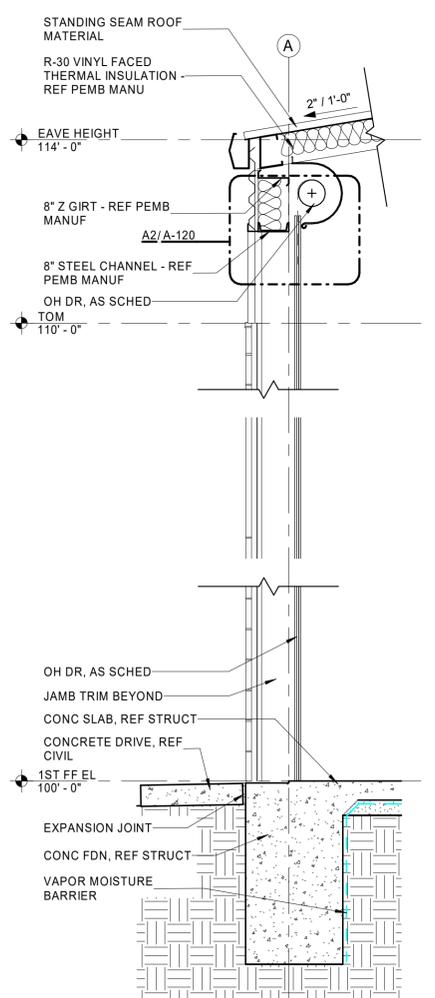
D1 DETAIL
1 1/2" = 1'-0"



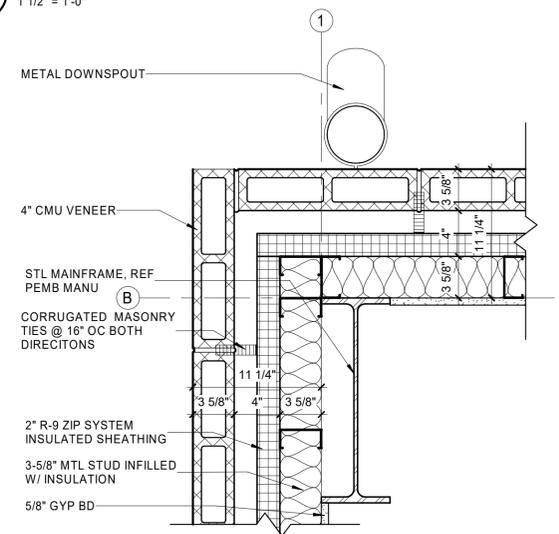
A5 WALL SECTION
1/2" = 1'-0"



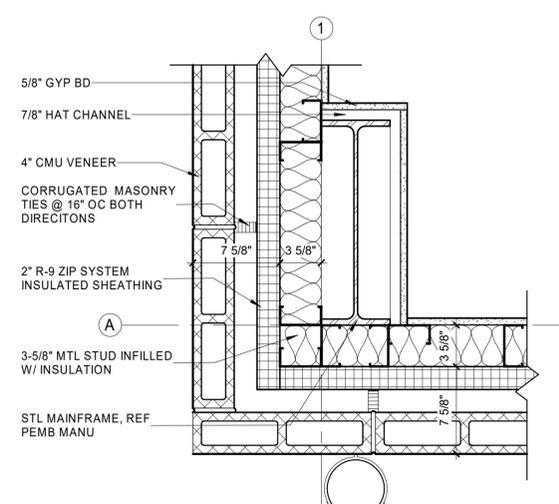
A4 WALL SECTION
1/2" = 1'-0"



A3 WALL SECTION
1/2" = 1'-0"



B1 PLAN DETAIL
1 1/2" = 1'-0"



A1 PLAN DETAIL
1 1/2" = 1'-0"

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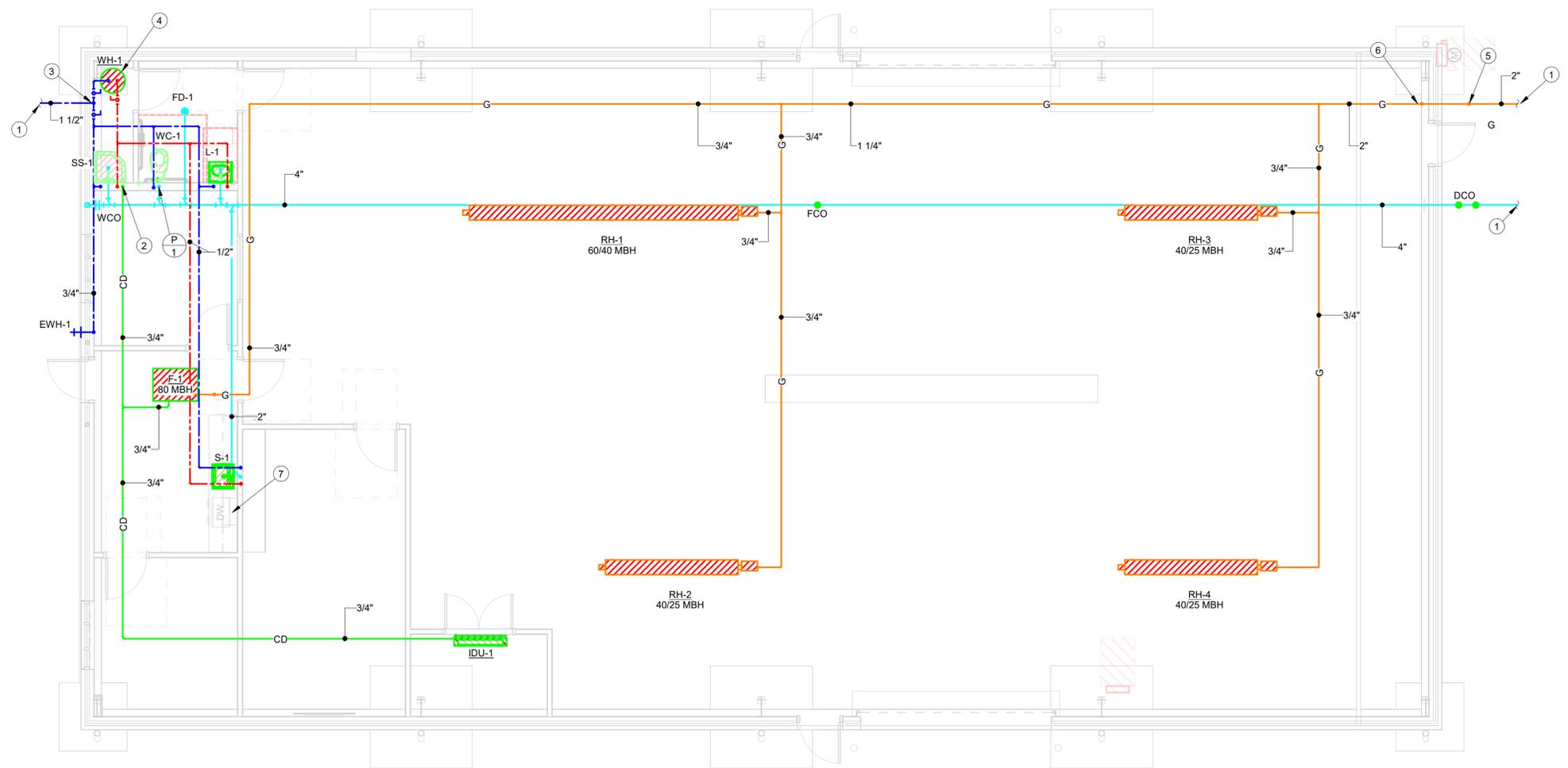
#	DATE	DESCRIPTION
-	04/24/2023	Permit Set

GENERAL NOTES

- A. REFER TO GENERAL NOTES ON P-001.
- B. GAS LOAD FOR BUILDING IS 260 MBH. SUPPLY SHALL BE LOW PRESSURE.

KEY NOTES

- AS INDICATED BY: # →
- 1 REFER TO CIVIL FOR CONTINUATION.
 - 2 ROUTE 3/4" CONDENSATE DOWN IN WALL TO MOPSINK. REFER TO DETAIL.
 - 3 ROUTE 1 1/2" WATERLINE UP IN JAN CLOSET. PROVIDE BALL VALVE AND DOUBLE CHECK VALVE IN VERTICAL.
 - 4 SUSPEND WATER HEATER ABOVE CEILING. REFER TO DETAIL.
 - 5 ROUTE GAS LINE OUT OF GROUND. PROVIDE SHUTOFF AND RUN INTO BUILDING.
 - 6 ROUTE GAS LINE UP HIGH AS POSSIBLE.
 - 7 PROVIDE WATER FROM SINK TO SERVE DISHWASHER. TIE DISHWASHER DRAIN INTO SINK DRAIN LINE.



A1 PLUMBING PLAN
3/16" = 1'-0"



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DATE DESCRIPTION

Plumbing Details
& Schedules

P-601

PLUMBING FIXTURE SCHEDULE

SYMBOL	MINIMUM CONNECTIONS				DESCRIPTION	MANUFACTURE R	MODEL NO.	OPTIONS
	CW	HW	VENT	SEWER				
WC-1	1"	--	2"	4"	FLOOR MOUNTED FLUSH VALVE WATER CLOSET, ELONGATED CHINA BOWL WITH EVERCLEAN. BOTTOM OUTLET, SIPHON JET FLUSHING ACTION, TOP SPUD, EXPOSED FLUSH VALVE WITH VANDAL RESISTANT STOP CAP, 1.28 GALLONS PER FLUSH. FLUSH HANDLE ON WIDE SIDE OF TOILET. EXTRA HEAVY DUTY OPEN FRONT WHITE SEAT WITH EVERCLEAN. 17" TO TOP OF RIM TO MEET ADULT TAS HEIGHT REQUIREMENTS.	AMERICAN STANDARD	3461.001 "MADERA FLOWISE"	VALVE - SLOAN ROYAL 111-1.28 SEAT - AMERICAN STANDARD 5901.110T
L-1	1/2"	1/2"	1-1/2"	1-1/2"	WALL MOUNTED TAS COMPLIANT LAVATORY, VITREOUS CHINA, NOMINAL 20" x 18", BACK AND SIDE SPLASHES, FOR CONCEALED ARM CARRIER, SINGLE CENTERED FAUCET HOLE. TAS COMPLIANT SINGLE LEVER FAUCET 0.5 GPM. DRAIN OUTLET WITH GRID STRAINER. MOUNT TOP OF RIM AT A MAX OF 34" AFF TO MEET TAS REQUIREMENTS. PROVIDE THERMOSTATIC MIXING VALVE UNDER LAVATORY.	AMERICAN STANDARD	0356.421 LUCERNE	FAUCET - MOEN M-DURA 9417F05 (SINGLE LEVER) CARRIER - WATTS TCA-411 DRAIN - AMERICAN STANDARD 7723.018
S-1	1/2"	1/2"	1-1/2"	1-1/2"	COUNTERTOP SINGLE COMPARTMENT 22" x 19" SINK, 18 GAUGE 304 STAINLESS STEEL WITH A LUSTERTONE FINISH, REAR CENTER DRAIN PLACEMENT, FULL SPRAY SIDES AND BOTTOM, NOMINAL 18" x 14" BOWL, 6" DEEP. TAS COMPLIANT SINGLE HANDLE HIGH ARC PULLDOWN FAUCET, PULLOUT SPRAY WITH A 68" BRAIDED HOSE, LEVER STYLE HANDLE, 1.5 GPM. DRAIN OUTLET WITH 304 STAINLESS STEEL BODY AND GRID STRAINER, POLISHED FINISH.	ELKAY	LRAD221960	FAUCET - MOEN 7594 DRAIN - ELKAY LK18B
SS-1	3/4"	3/4"	2"	3"	FLOOR MOUNTED ENAMELED CAST IRON CORNER SERVICE SINK - 28"x28"x13" WITH WALL MOUNTED 8" CENTER FAUCET WITH VACUUM BREAKER, TOP BRACE, INTEGRAL STOPS, HOSE THREADED SPOUT, 12.96 GPM. PROVIDE 3" DRAIN OUTLET WITH DOME STRAINER, MOP HANGER, HOSE/BRACKET COMBINATION. PROVIDE THERMOSTATIC MIXING VALVE.	AMERICAN STANDARD	7745.811 "FLORWELL"	FAUCET - T&S BRASS B-0665-BSTR MOP HANGER - PROFLO PF245 HOSE AND WALL HOOK - PROFLO PF296 SPLASH CATCHER PANELS - PROFLO PFWG24S
EWH-1	3/4"	--	--	--	EXTERIOR ENCASED NON-FREEZE WALL HYDRANT, DOUBLE CHECK BACKFLOW PROTECTION, CHROME BOX, ALL METAL CONSTRUCTION, STAINLESS STEEL OPERATING STEM AND ONE PIECE VALVE PLUNGER THAT CONTROLS FLOW AND DRAIN.	WOODFORD	B67	(CH)
FD-1	--	--	2"	2"	FLOOR DRAIN - 6" DIA. ADJUSTABLE POLISHED NICKEL BRONZE STRAINER, CAST IRON BODY WITH REVERSIBLE CLAMPING COLLAR. P-TRAP SHALL BE DEEP SEAL TYPE. COORDINATE FLOORING TYPE WITH ARCHITECTURE.	WATTS	FD-100A	TRAP GUARD - PROSET
FCO	--	--	--	4"	FLOOR CLEANOUT - CAST IRON BODY WITH ROUND ADJUSTABLE SCORIATED NICKEL BRONZE TOP, GASKET SEAL BRASS THREADED PLUG WITH RECESSED SOCKET.	WATTS	CO-200-R	
WCO	--	--	--	4"	WALL CLEANOUT - NO-HUB PVC CLEANOUT TEE WITH ROUND STAINLESS STEEL COVER AND CENTER SCREW, GASKETED SEAL BRASS THREADED PLUG WITH RECESSED SOCKET.	WATTS	CO-460-RD	
DCO	--	--	--	4"	EXTERIOR DOUBLE CLEANOUT - CAST IRON CLEANOUT WITH ROUND ADJUSTABLE SCORIATED SECURED CAST IRON TOP, GASKET SEAL. CAST IRON PLUG WITH RECESSED SOCKET. INSTALL IN MINIMUM OF 24" x 12" x 4" REINFORCED CONCRETE PAD WITH BEVELED EDGES.	WATTS	(QTY-2) CO-200-RX	

NOTES:

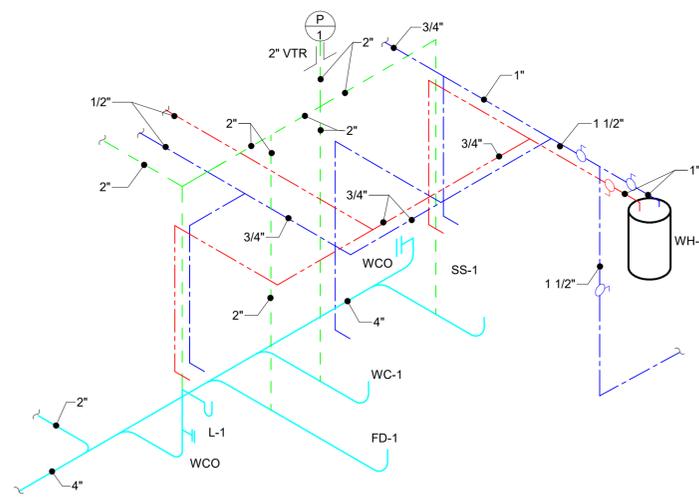
- MANUFACTURERS WITH MODEL NUMBERS ARE BASE ITEMS. OTHER MANUFACTURERS MUST BE EQUIVALENT MANUFACTURERS UNLESS NOTED OTHERWISE.
- FOR MOUNTING HEIGHTS OF INDIVIDUAL WALL-MOUNTED FIXTURES, REFER TO P-001 SHEET.
- EACH UNDER SLAB OR CONCEALED P-TRAP SHALL BE A DEEP-SEAL TYPE.
- PROVIDE EACH WALL MOUNTED PLUMBING FIXTURE, SUCH AS SINKS, LAVATORIES, ELECTRIC WATER COOLERS, DRINKING FOUNTAINS, ETC., WITH A FLOOR MOUNTED SUPPORT CARRIER WITH RECTANGULAR LEGS.
- UNLESS SCHEDULED OTHERWISE, PROVIDE EACH LAVATORY, SINK, WATER COOLER, ETC. WITH A P-TRAP ASSEMBLY CONSISTING OF A CHROME-PLATED (C.P.) CAST BRASS TRAP WITH CLEANOUT PLUG, C.P. TUBING OUTLET (MIN. 17 GA.), AND C.P. CAST BRASS ESCUTCHEON WITH SETSCREW.
- PROVIDE EACH FIXTURE WHICH REQUIRES COLD AND/OR HOT WATER (EXCEPT FLUSH VALVES) WITH A SUPPLY/STOP ASSEMBLY CONSISTING OF A C.P. BRASS STOP VALVE (MIN. 1/2") WITH QUARTER STOPS AND LOCK SHIELD, STAINLESS STEEL FLEXIBLE RISER, C.P. BRASS NIPPLE, AND C.P. CAST BRASS ESCUTCHEON WITH SETSCREW.
- FOR EACH PUBLIC LAVATORY OR SINK WITH EXPOSED DRAIN AND BOTH COLD AND HOT SUPPLY COMPONENTS, PROVIDE A MANUFACTURED INSULATION KIT MADE FROM MOLDED CLOSED CELL VINYL THAT IS ANTI-MICROBIAL AND SEAMLESS. EACH KIT SHALL COVER THE TAILPIECE, P-TRAP, WALL BEND, BOTH WATER SUPPLY STOPS, AND BOTH WATER RISERS. KITS SHALL BE EQUAL OR EQUIVALENT TO "PROWRAP" BY McGUIRE OR LAV-GUARD BY TRUEBRO.
- WHERE ARCHITECTURAL PLANS SHOW WATER CLOSETS AND URINALS, PROVIDE AND INSTALL FLUSHING VALVE SUCH THAT FLUSH HANDLE IS ON WIDE SIDE OF WATER CLOSET.
- PROVIDE WATER HAMMER ARRESTORS LOCATED AND SIZED ACCORDING TO PDI RECOMMENDATIONS.
- PROVIDE ISOLATION VALVES IN CW, HW AND HWR PIPING AS NEEDED OR AS SHOWN FOR ALL GROUPS OF FIXTURES.
- INSTALL PLUMBING FIXTURES IN ACCORDANCE WITH LATEST ADA AND TAS STANDARDS.

ELECTRIC WATER HEATER SCHEDULE

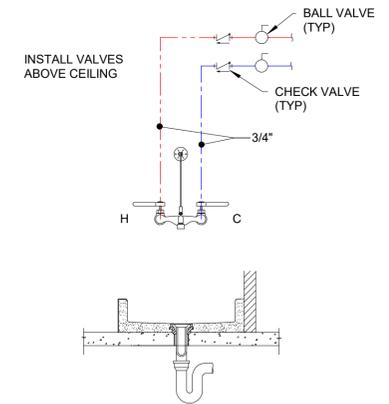
SYMBOL	LOCATION	STORAGE GALLONS	HTG ELEMENTS (QTY/KW)	ELECTRICAL		RECOVERY (GPH)	WATER TEMPERATURE		MANUFACTURER	MODEL NO
				VOLTAGE	PHASE		INLET	RISE		
WH-1	JAN - 105	10	1/3	208 V	1	23	60 °F	54 °F	A.O. SMITH	DEL-10

NOTES:

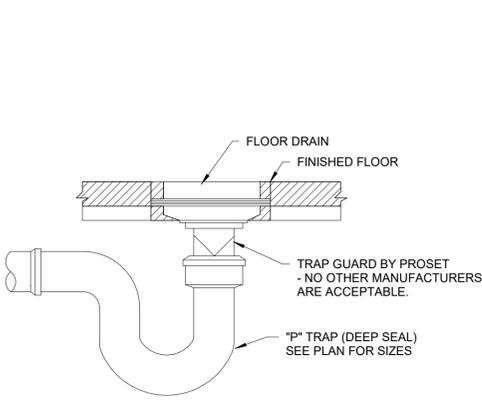
- WATER HEATER SHALL HAVE A PORCELAINIZED GLASSLINED TANK AND BE ADDITIONALLY PROTECT AGAINST PREMATURE FAILURE BY A FACTORY INSTALLED ANODE ROD. WATER HEATER SHALL HAVE A PROPERLY SIZED, FACTORY PROVIDED TEMPERATURE AND PRESSURE RELIEF VALVE.
- TANK SHALL HAVE A THREE-YEAR WARRANTY.
- WATER HEATER SHALL BE PROVIDED WITH NON-SIMULTANEOUS ELEMENTS.



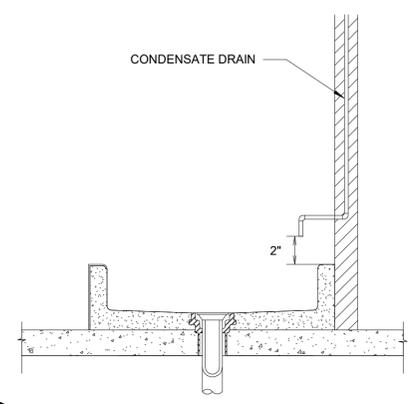
P1 PLUMBING RISER 1
SCHEMATIC ONLY



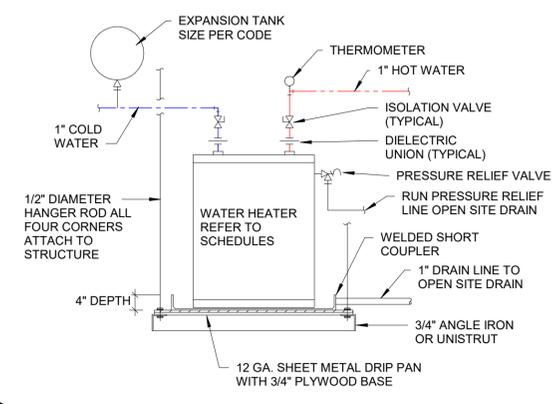
B5 SERVICE SINK PIPING
NTS



A2 FLOOR DRAIN
NTS



A4 CONDENSATE DRAIN TO MOP SINK
NTS



A5 ELECTRIC WATER HEATER - SUSPENDED
NTS

GENERAL NOTES

- GENERAL NOTES ON THIS SHEET ARE APPLICABLE TO EACH MECHANICAL DRAWING OF THIS SET OF CONSTRUCTION DOCUMENTS. NOTES SPECIFIC TO INDIVIDUAL MECHANICAL DRAWINGS WILL BE SHOWN ON THE RESPECTIVE MECHANICAL DRAWING.
- THE CONTRACTOR SHALL PROVIDE A COMPLETE HVAC SYSTEM TO INCLUDE ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT FOR A COMPLETE AND FUNCTIONAL SYSTEM INCLUDING ALL NECESSARY APPURTENANCES CUSTOMARILY INCLUDED IF NOT SPECIFICALLY CALLED OUT.
- ENTIRE INSTALLATION, INCLUDING MATERIALS, EQUIPMENT AND WORKMANSHIP SHALL CONFORM WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS.
- THIS PROJECT SHALL CONFORM TO APPLICABLE ASHRAE, NFPA AND SMACNA STANDARDS AND OTHER REGULATORY BODIES HAVING JURISDICTION OVER THE CLASS OF WORK.
- MATERIAL AND EQUIPMENT SHALL HAVE STAMPS OR SEALS OF AHRI, ASME, UL OR ASTM.
- THE CONTRACTOR SHALL MAKE TESTS FOR ACCEPTANCE AND APPROVAL AS REQUIRED BY CODE AND THE REQUIREMENTS OF APPLICABLE REGULATORY AGENCIES. REQUIRED TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER OF RECORD AND/OR OWNER UNLESS OTHERWISE WAIVED IN WRITING.
- THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES, DOCUMENTS AND SERVICES RELATED TO INSTALLATION OF THE WORK.
- THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE OTHER TRADES IN ORDER TO RESOLVE ANY CONFLICTS THAT MIGHT ARISE DUE TO THE LOCATION OF EQUIPMENT OR THE USE OF SPACE.
- EQUIPMENT OF DIFFERENT ELECTRICAL CHARACTERISTICS MAY BE FURNISHED PROVIDED SUCH PROPOSED EQUIPMENT IS APPROVED IN WRITING AND CONNECTING ELECTRICAL SERVICE, CIRCUIT BREAKERS AND CONDUIT ARE APPROPRIATELY MODIFIED AT NO COST TO THE OWNER.
- RUN ALL HORIZONTAL PIPING AND DUCTWORK ABOVE THE CEILING UNLESS OTHERWISE NOTED.
- MAKE DUCT PENETRATIONS OF ALL WALLS WITH SHEET METAL DUCTS. FLEXIBLE DUCT PENETRATION OF WALLS ARE NOT ACCEPTABLE.
- INSTALL TURNING VANES WHERE SHOWN ON PLANS.
- DO NOT INSTALL EQUIPMENT, PIPING OR DUCTWORK OVER ANY ELECTRICAL EQUIPMENT OR ELECTRICAL SERVICE SPACE.
- LAYOUT OF PIPING AND DUCTWORK IS DIAGRAMMATIC. RUN ALL EXPOSED PIPING AND DUCTWORK AS HIGH AS POSSIBLE UNLESS OTHERWISE NOTED. ALLOW FOR RISES, DROPS AND OFFSETS AS REQUIRED.
- INSTALL MECHANICAL EQUIPMENT TO FACILITATE SERVICING, MAINTENANCE AND REPAIR OR REPLACEMENT OF ELECTRICAL COMPONENTS. AS MUCH AS PRACTICAL, CONNECT EQUIPMENT FOR EASE OF DISCONNECTING, WITH A MINIMUM OF INTERFERENCE WITH OTHER INSTALLATIONS; PIPING SHALL NOT INTERFERE WITH FILTER PULL.
- MECHANICAL CONTRACTORS SHALL PROVIDE AUTOMATIC CONTROL DEVICES SUCH AS STARTERS, VARIABLE FREQUENCY DRIVES (VFD), TEMPERATURE SENSORS, RELAYS, PRESSURE SWITCHES THAT ARE ASSOCIATED WITH MECHANICAL EQUIPMENT AND ASSOCIATED CONTROL WIRING FROM CONTROL POWER LOCATION TO THE CONTROL DEVICE/ ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT AND WIRING FROM POWER SOURCE TO DISCONNECT SWITCH, FROM DISCONNECT SWITCH TO STARTER OR VFD, AND FROM STARTER OR VFD TO THE EQUIPMENT.
- FLASHING DETAILS FOR PIPES PENETRATING THE ROOF SHALL BE COORDINATED WITH ARCHITECTURE DETAILS.
- LOCATE TEMPERATURE SENSORS AND CO2 SENSORS 48" ABOVE FINISHED FLOOR OR AS NOTED ON PLANS.
- COORDINATE CURBS AND SIZE OF CURBS IN ACCORDANCE WITH ACTUAL EQUIPMENT PURCHASED.
- CONTRACTOR IS TO PROVIDE AN ADJUSTABLE ROOF CURB OR TAPER AT CURB TO MATCH ROOF SLOPE FOR CURB MOUNTED EQUIPMENT. THE USE OF SHIMS TO LEVEL EQUIPMENT IS NOT ACCEPTABLE UNLESS THE CURB DIMENSIONS ARE SMALLER THAN 36"x36".
- CONTRACTOR TO VERIFY ALL ACCESS PANEL LOCATIONS. NOT ALL ACCESS PANELS REQUIRED ARE SHOWN. REFER TO SPECIFICATIONS FOR ACCESS PANEL REQUIREMENTS.
- CONTRACTOR SHALL INSTALL ALL PLUMBING VENTS AND EXHAUST AIR OUTLETS A MINIMUM OF 10'-0" AWAY (PER CODE) FROM ALL OUTSIDE AIR INTAKES, OPERABLE DOORS AND/ OR WINDOWS. CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC BY NATURE, FINAL MEASUREMENTS SHOULD BE MADE AT THE PROJECT SITE.
- NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED.

SYMBOL LEGEND

	AUTOMATIC AIR VENT
	MANUAL AIR VENT
	P/T PLUG
	VENTURI FLOW METER
	AUTOMATIC FLOW CONTROL
	BUTTERFLY VALVE
	BALL VALVE
	CHECK VALVE
	GLOBE VALVE
	GATE VALVE
	ANGLE GATE VALVE
	PRESSURE REDUCING VALVE
	AUTOMATIC VALVE, 2-WAY
	AUTOMATIC VALVE, 3-WAY
	FLANGE
	UNION
	STRAINER
	GAS METER
	AUTOMATIC AIR VENT
	ELECTRIC MOTOR
	CENTRIFUGAL FAN
	THERMOMETER
	EXPANSION VALVE
	FLOW SWITCH
	PRESSURE SWITCH
	PUMP

PIPING SYMBOLS

	CHS	CHILLED WATER SUPPLY
	CHR	CHILLED WATER RETURN
	HWS	HEATING WATER SUPPLY
	HWR	HEATING WATER RETURN
	CS	CONDENSING WATER SUPPLY
	CR	CONDENSING WATER RETURN
	CD	CONDENSATE DRAIN
	R	REFRIGERANT LIQUID & SUCTION
		FLUID FLOW DIRECTION
		PIPE TURNED UP
		PIPE TURNED DOWN

MECHANICAL/PLUMBING ABBREVIATIONS

A/C	AIR CONDITIONING
AVG	AVERAGE
AFF	ABOVE FINISHED FLOOR
BOJ	BOTTOM OF JOIST
BTUH	BRITISH THERMAL UNIT PER HOUR
MBU	BRITISH THERMAL UNIT DIVIDED BY 1,000
CFM	CUBIC FEET PER MINUTE
CHR	CHILLED WATER RETURN PIPING
CHS	CHILLED WATER SUPPLY PIPING
CR	CONDENSING WATER RETURN PIPING
CS	CONDENSING WATER SUPPLY PIPING
DEG	DEGREE
°F	DEGREES FAHRENHEIT
DIA	DIAMETER
ID	DIAMETER, INSIDE
OD	DIAMETER, OUTSIDE
DDC	DIRECT DIGITAL CONTROLS
DB	DRY BULB TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EAT	ENTERING AIR TEMPERATURE
EWI	ENTERING WATER TEMPERATURE
EA	EXHAUST AIR
ET	EXPANSION TANK
ESP	EXTERNAL STATIC PRESSURE
FT	FEET
FPI	FINS PER INCH
FD	FIRE DAMPER
FSD	FIRE/SMOKE DAMPER
FO	FLAT OVAL
GAL	GALLONS
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GBD	GRAVITY BACKDRAFT DAMPER
HWP	HEATING WATER PUMP
HWR	HEATING WATER RETURN PIPING
HWS	HEATING WATER SUPPLY PIPING
HP	HORSEPOWER
HUM	HUMIDITY
IN	INCHES
inHG	INCHES OF MERCURY
inH2O	INCHES OF WATER
IAQ	INDOOR AIR QUALITY
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURES
LWT	LEAVING WATER TEMPERATURES
MBD	MANUAL BALANCING DAMPER
MAT	MIXED AIR TEMPERATURE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OA	OUTSIDE AIR
OAT	OUTSIDE AIR TEMPERATURE
PH	PHASE
LBS	POUNDS
LBS/HR	POUNDS PER HOUR
PSI	POUNDS PER SQUARE INCH
PRV	PRESSURE REDUCED VALVE
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
RPZ	REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY
RH	RELATIVE HUMIDITY
RA	RELIEF AIR
RPM	REVOLUTIONS PER MINUTE
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SH	SENSIBLE HEAT
SHR	SENSIBLE HEAT RATIO
SD	SMOKE DAMPER
SQ.FT.	SQUARE FEET
SP	STATIC PRESSURE
T&P	TEMPERATURE AND PRESSURE VALVE
k	THERMAL CONDUCTIVITY
R	THERMAL RESISTANCE
TOJ	TOP OF JOIST
TDH	TOTAL DYNAMIC HEAD
TSP	TOTAL STATIC PRESSURE
UF	UNDERFLOOR
UG	UNDERGROUND
U	U-FACTOR, HEAT TRANSFER COEFFICIENT
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
VEL	VELOCITY
V	VOLTS
WB	WET BULB TEMPERATURE

DUCTWORK SYMBOLS

	MANUAL BALANCING DAMPER
	CEILING MOUNTED SUPPLY GRILLE
	CEILING MOUNTED RETURN GRILLE
	CEILING MOUNTED EXHAUST GRILLE
	WALL MOUNTED SUPPLY GRILLE
	WALL MOUNTED RETURN/EXHAUST GRILLE
	FIRE/SMOKE DAMPER
	FIRE DAMPER
	SMOKE DAMPER
	LINED RETURN DUCT
	SUPPLY DUCT TURNED UP
	SUPPLY DUCT TURNED DOWN
	RETURN DUCT TURNED UP
	RETURN DUCT TURNED DOWN
	EXHAUST DUCT TURNED UP
	EXHAUST DUCT TURNED DOWN
	ROUND DUCT TURNED UP
	ROUND DUCT TURNED DOWN
	THERMOSTAT
	HUMIDISTAT
	SENSOR
	FLEXIBLE CONNECTION
	FLEX DUCT
	CONNECT TO EXISTING
	POINT OF DISCONNECT

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DATE DESCRIPTION

Mechanical
Abbreviations &
Legends

M-001



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Mechanical Plan
M-111

FURNACE SPLIT SYSTEM SCHEDULE

SYMBOL	TYPE	EXTERNAL S.P. (in W.G.)	BLOWER MOTOR HP/ DRIVE	TOTAL CFM	OUTSIDE AIR CFM	COOLING				COIL MODEL #	HEATING			ELECTRICAL				WEIGHT, LBS	MANUFACTURER	FURNACE MODEL NUMBER
						TOTAL CAPACITY, MBH	SENSIBLE CAPACITY, MBH	RETURN AIR TEMPERATURE, DB / WB	MINIMUM COOLING SEER		TYPE	CAPACITY	AFUE	VOLTAGE	PHASE	MCA	MOCP			
F-1	HORIZONTAL	0.50	1/DIRECT	1110 CFM	240	35.29	23.63	80/67	15	4PXABU36BS3	NAT GAS	80 MBH	96 %	120 V	1	14.1	15	134 lb	TRANE	S9X1B080

CONDENSER UNIT SCHEDULE

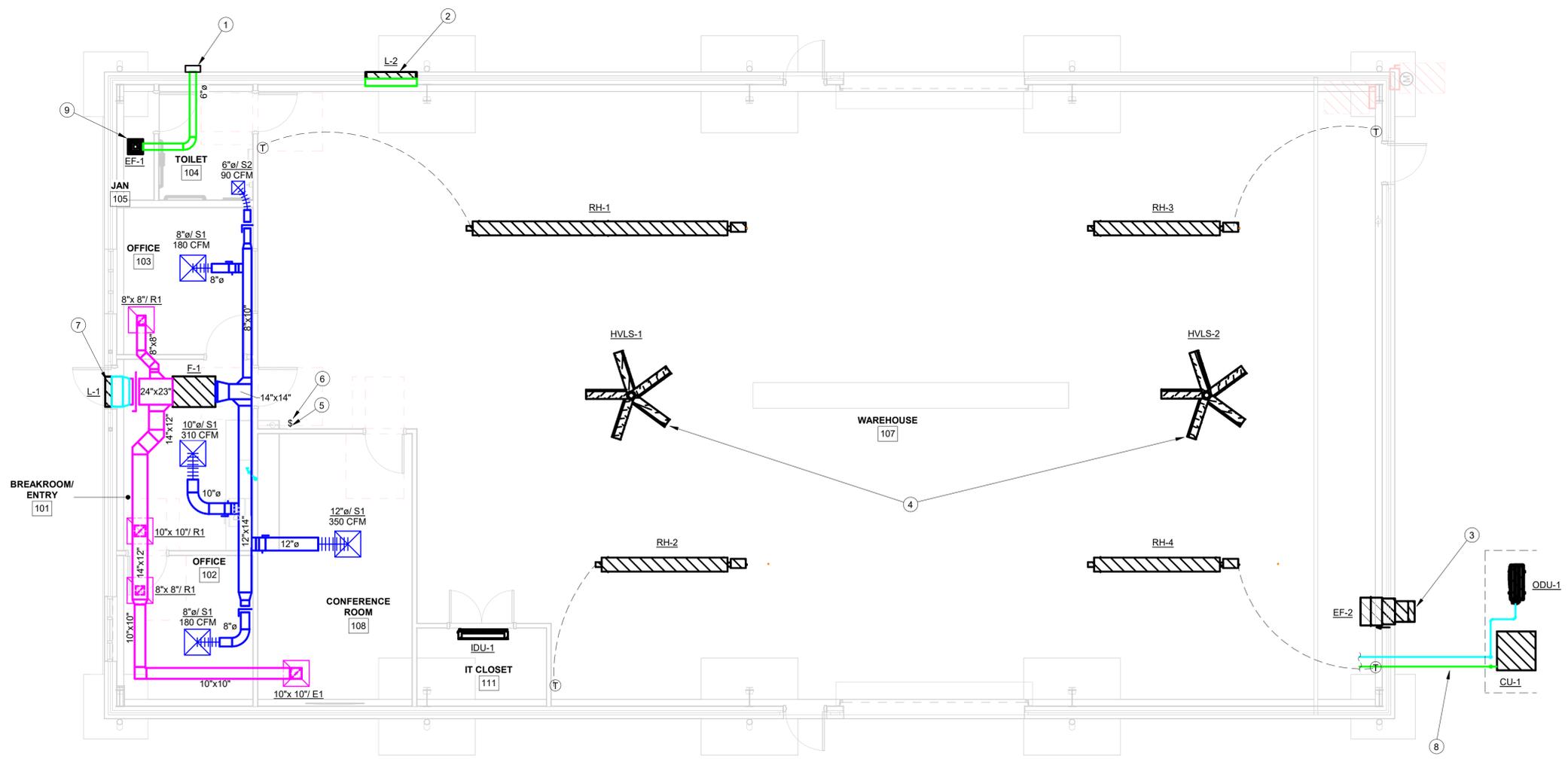
SYMBOL	NOMINAL TONNAGE	VOLTAGE	ELECTRICAL			REFRIGERANT TYPE	MANUFACTURER	MODEL NO.
			PHASE	MCA	MOCP			
CU-1	3	240 V	3	12	20	R-410A	TRANE	4TTA4036A3

- NOTES:**
- SCHEDULED UNITS ARE MANUFACTURED BY TRANE. CARRIER AND LENNOX ARE CONSIDERED EQUIVALENT.
 - EXTERNAL STATIC PRESSURE INCLUDES DUCTWORK, DAMPERS, EVAPORATIVE COOLING COIL, AND AIR DEVICES. PRESSURE DROP FOR WET COIL AND FILTERS IS CONSIDERED AS INTERNAL PRESSURE DROP.
 - COOLING CAPACITIES AND SEER/EER RATINGS ARE COMBINATION RATINGS WITH OUTDOOR UNITS. CAPACITIES ARE RATED AT ENTERING AIR TEMPERATURE AND AMBIENT AS LISTED; SEER RATINGS ARE AT AHRI CONDITIONS. AIRFLOW CONDITIONS ARE RATED AT LOCAL ALTITUDE.
 - EACH OUTDOOR UNIT SHALL BE EQUIPPED WITH A HIGH PRESSURE SWITCH, HARD START KIT ON SINGLE PHASE UNIT, ANTI-SHORT CYCLE TIMER, SERVICE VALVES AND INDOOR BLOWER RELAY KIT.
 - ELECTRICAL CONTRACTOR IS TO PROVIDE AND INSTALL ALL DISCONNECTS FOR EACH DEVICE IN THE SPLIT SYSTEM PACKAGE. ELECTRICAL CONTRACTOR IS TO MAKE ALL CONNECTS AS PER DIVISION 26 SPECIFICATIONS.
 - EACH SYSTEM SHALL BE PROVIDED WITH A WIFI ENABLED 7-DAY PROGRAMMABLE THERMOSTAT. MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL THE THERMOSTAT AS PER DIVISION 26 SPECIFICATIONS FOR RUNNING WIRE AND CONDUIT.
 - PROVIDE CONCENTRIC INTAKE/FLUE KIT.

AIR DISTRIBUTION SCHEDULE

SYMBOL	SYSTEM TYPE	DESCRIPTION	INSTALLATION TYPE	MANUFACTURER	MODEL NO.
S2	SUPPLY	ALL STEEL, 12" x 12" NOMINAL FACE, FIXED AIR PATTERN, STEPPED WITH 4-CONES, SQUARE FACE AND ROUND NECK. SIZE NECK AS SHOWN ON DRAWINGS.	LAY-IN/SURFACE MOUNT	NAILOR	RNS
R1	RETURN	EGGCRATE RETURN GRILLE, 24" x 24" NOMINAL FACE, STEEL BORDER WITH ALUMINUM 1/2" x 1/2" x 1/2" CORE. SIZE NECK AS SHOWN ON DRAWINGS.	LAY-IN/SURFACE MOUNT	NAILOR	61EC
E1	EXHAUST	EGGCRATE EXHAUST GRILLE, 24" x 24" NOMINAL FACE, ALL ALUMINUM 1/2" x 1/2" x 1/2" CORE. SIZE NECK AS SHOWN ON DRAWINGS.	LAY-IN/SURFACE MOUNT	NAILOR	51EC

- NOTES:**
- AIR DEVICES SCHEDULED TO BE MANUFACTURED BY NAILOR. PRICE, TITUS, AND RUSKIN ARE CONSIDERED EQUIVALENT MANUFACTURERS.
 - UNLESS SCHEDULED OTHERWISE, AIR DEVICES SHALL BE WHITE OR OFF-WHITE IN COLOR.
 - ALL JOISTS, CONDUITS, PIPING AND EQUIPMENT ABOVE OPEN RETURN DEVICES SHALL BE PAINTED BLACK FOR AN AREA OF 2 FEET ON ALL SIDES OF THE AIR DEVICE.
 - PROVIDE MANUAL BALANCING DAMPERS AT EACH SUPPLY AND EXHAUST AIR DUCT TAP, INSTALL MBD AT MAIN DUCT TAP.
 - PROVIDE INSULATING BLANKET ON BACK OF THE SUPPLY AND RETURN GRILLES.



GENERAL NOTES

- REFER TO GENERAL NOTES ON M-001.
- BOTTOM OF RADIANT HEATERS TO BE 12' ABOVE FINISHED FLOOR.

KEY NOTES

- AS INDICATED BY: (#) →
- 6" EXHAUST CAP.
 - CENTER OF LOUVER AT 4' 0" AFF.
 - CENTER OF FAN AT 12' 0" AFF.
 - BOTTOM OF FANS SHALL BE AT 10' 0" AFF.
 - PROVIDE LABELED WALL SWITCH TO CONTROL HVLS FANS.
 - PROVIDE LABELED WALL SWITCH TO CONTROL EF-2, L-2 SHALL OPERATE WHILE EF-2 IS RUNNING. COORDINATE LOUVER INTERLOCK WITH ELECTRICAL CONTRACTOR.
 - L-1 SHALL OPERATE WHEN F-1 IS RUNNING. COORDINATE LOUVER INTERLOCK WITH ELECTRICAL CONTRACTOR.
 - ROUTE REFRIGERANT PIPING BELOW SIDEWALK TO CONDENSING UNITS.
 - BOTTOM OF FAN SHALL BE AT 9' 0" AFF.

A1 MECHANICAL PLAN
3/16" = 1'-0"



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DATE DESCRIPTION

Mechanical
Schedules
M-601

DUCTLESS SPLIT SYSTEM INDOOR UNIT SCHEDULE

SYMBOL	TYPE	AIRFLOW (MED)	TOTAL CAPACITY, MBH	ELECTRICAL		MANUFACTURER	MODEL NO.
				VOLTAGE	PHASE		
IDU-1	WALL MOUNT	320 CFM	12.0	240 V	1	DAIKIN	PKA-A12LA

DUCTLESS SPLIT SYSTEM OUTDOOR UNIT SCHEDULE

SYMBOL	NOMINAL TONS	AMBIENT AIR TEMP F	SEER	REFRIGERANT TYPE	ELECTRICAL		MANUFACTURER	MODEL NO.
					VOLTAGE	PHASE		
ODU-1	1.0	95	21	R-410A	240 V	1	DAIKIN	PUY-A12NKA7

- NOTES:
- BASIS OF DESIGN IS MITSUBISHI, LG AND CARRIER ARE CONSIDERED EQUAL.
 - INDOOR UNIT SHALL BE EQUIPPED WITH REPLACEABLE FILTER, PIPE CONDENSATE DRAIN AS SHOWN, FREEZE PROTECTION, AUTOMATIC AIR SWEEP, AUTO RESTART, DIAGNOSTICS, HIGH/MID/LOW & AUTO FAN SPEEDS AND WHITE FINISH.
 - OUTDOOR UNIT SHALL BE EQUIPPED WITH HAIL GUARD FOR THE CONDENSER COIL, HIGH PRESSURE SWITCH, ANTI-SHORT CYCLE TIMER, SERVICE VALVES, LOW AMBIENT KIT, ANCILLARY REFRIGERANT EQUIPMENT AND INDOOR BLOWER RELAY KIT. CONTRACTOR SHALL PROVIDE FOR ALL PIPING.
 - SIZE REFRIGERANT LINES ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
 - PROVIDE CONDENSATE PUMP FOR INDOOR UNITS. EXAMPLE MODEL: REFCO GOBI, 120/240V, 1 PH, 3.2 GPH, 65 FT HEAD.

LOUVER SCHEDULE

SYMBOL	SERVES	LOUVER FUNCTION	WIDTH	HEIGHT	MAX FACE VELOCITY	MIN FREE AREA (R^2)	AIRFLOW	FRAME TYPE	BIRDSCREEN	MANUFACTURER	MODEL NO.	GREENHECK DAMPER			
												ACTUATOR VOLTAGE	FAIL POSITION	CONTROL	MODEL NO.
L-1	F-1	INTAKE	18	22	210 FPM	1.12	240 CFM	CHANNEL	YES	GREENHECK	EDJ-601	120 V	CLOSED	NOTE 3	VCD-23
L-2	EF-2	INTAKE	40	40	750 FPM	5.7	4260 CFM	CHANNEL	YES	GREENHECK	EDJ-601	120 V	CLOSED	NOTE 3	VCD-23

- NOTES:
- UNITS ARE SCHEDULED TO BE MANUFACTURED BY GREENHECK. RUSKIN AND CESCO ARE CONSIDERED EQUIVALENT.
 - COORDINATE COLOR AND FRAME TYPE WITH ARCHITECT. COORDINATE AND EXACT SIZE WITH ARCHITECTURAL DETAILS AND CMU BLOCK OR BRICK DIMENSIONS.
 - LOUVER SHALL BE CONTROLLED AS NOTED IN KEYNOTE 6 AND 7 ON M-111.
 - LOUVER SHALL BE INTERLOCKED TO OPEN WHEN EQUIPMENT BEING SERVED IS OPERATING.

EXHAUST FAN SCHEDULE

SYMBOL	TYPE	CFM	DRIVE	E.S.P. (in W.G.)	SOUND LEVEL IN SONES	FAN MOTOR POWER	NOMINAL FAN RPM	ELECTRICAL			WEIGHT, LBS	MANUFACTURER	MODEL NO
								VOLTAGE	PHASE	METHOD OF CONTROL			
EF-1	CEILING MOUNTED	110 CFM	DIRECT	0.36	1.5	12 (W)	960	115 V	1	SWITCH	12	GREENHECK	SP-A90-130-VG
EF-2	WALL MOUNTED	4260 CFM	DIRECT	0.3	18.5	3/4 HP	1276	115 V	1	SWITCH	234	GREENHECK	AER-24-VG

- NOTES:
- FANS ARE SCHEDULED TO BE MANUFACTURED BY GREENHECK. TWIN CITY AND COOK ARE CONSIDERED EQUIVALENT MANUFACTURERS.
 - AIRFLOW CONDITIONS RATED AT LOCAL ALTITUDE.
 - PROVIDE AND INSTALL FLEXIBLE CONNECTION ON FAN INLET DUCT CONNECTION.
 - FANS SHALL HAVE MOTOR VIBRATION ISOLATION, BACK DRAFT DAMPER AT UNIT AND LOCAL DISCONNECT SWITCH AT UNIT.
 - FAN SELECTIONS SHALL BE SUBMITTED TO ALLOW FOR A MINIMUM +/- 10% IN SCHEDULED EXTERNAL STATIC AND CFM WITHIN THE PARAMETERS OF THE SCHEDULED MOTOR HP.

HVLS FAN SCHEDULE

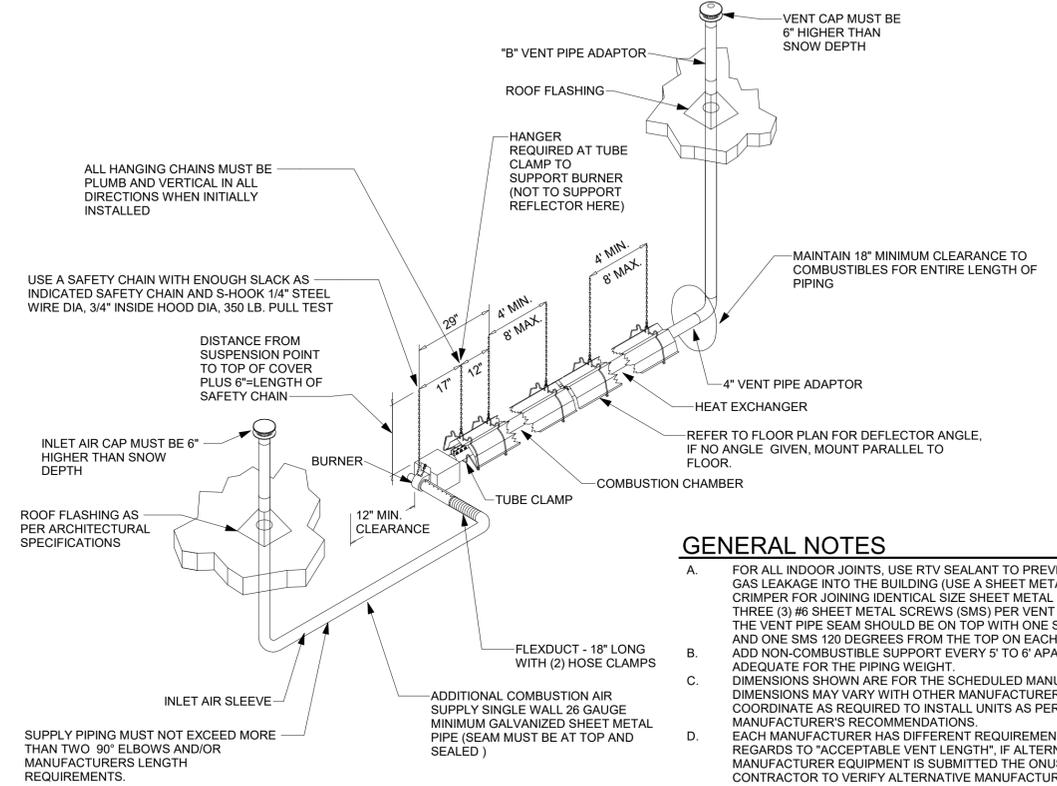
SYMBOL	TYPE	DIAMETER	BLADE COUNT	FAN MOTOR POWER - W	NOMINAL FAN RPM	ELECTRICAL			WEIGHT, LBS	MANUFACTURER	MODEL NO
						VOLTAGE	PHASE	METHOD OF CONTROL			
HVLS-1	HIGH VOLUME LOW VELOCITY	7	5	50	116	115 V	1	SWITCH	33	GREENHECK	DC-5-7-3MV
HVLS-2	HIGH VOLUME LOW VELOCITY	7	5	50	116	115 V	1	SWITCH	33	GREENHECK	DC-5-7-3MV

- NOTES:
- FANS ARE SCHEDULED TO BE MANUFACTURED BY GREENHECK. TWIN CITY AND COOK ARE CONSIDERED EQUIVALENT MANUFACTURERS.
 - AIRFLOW CONDITIONS RATED AT LOCAL ALTITUDE.
 - FAN SELECTIONS SHALL BE SUBMITTED TO ALLOW FOR A MINIMUM +/- 10% IN SCHEDULED EXTERNAL STATIC AND CFM WITHIN THE PARAMETERS OF THE SCHEDULED MOTOR HP.
 - VERIFY EXTENSION TUBE LENGTH AND MOUNTING BRACKET WITH MANUFACTURER PRIOR TO ORDERING.
 - PROVIDE DROP ROD AND GUY WIRES. REFER TO ARCH FOR MORE INFO.

RADIANT TUBE HEATER SCHEDULE

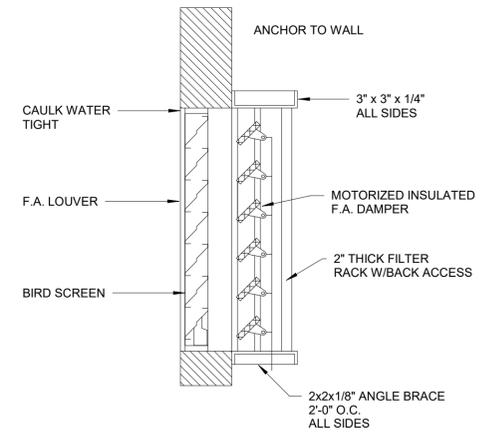
SYMBOL	TYPE	INPUT, MBH (2 STAGE)	TUBE LENGTH	FUEL	VOLTAGE	PHASE	WEIGHT, LBS	MANUFACTURER	MODEL NO
RH-2	STRAIGHT TUBE	40/25	10	NAT. GAS	120 V	1	65	SPACE-RAY	PTS-40
RH-3	STRAIGHT TUBE	40/25	10	NAT. GAS	120 V	1	65	SPACE-RAY	PTS-40
RH-4	STRAIGHT TUBE	40/25	10	NAT. GAS	120 V	1	65	SPACE-RAY	PTS-40

- NOTES:
- UNITS ARE SCHEDULED TO BE MANUFACTURED BY SPACE RAY. RE-VERBER-RAY IS CONSIDERED EQUIVALENT.
 - GAS PIPING SHALL HAVE SHUTOFF PLUG VALVE AND 6" DIRT LEG.
 - PROVIDE WITH THERMOSTAT MOUNTED TO WALL AS SHOWN ON PLANS.
 - PROVIDE INTAKE AND FLUE AS DIRECTED BY MANUFACTURER.

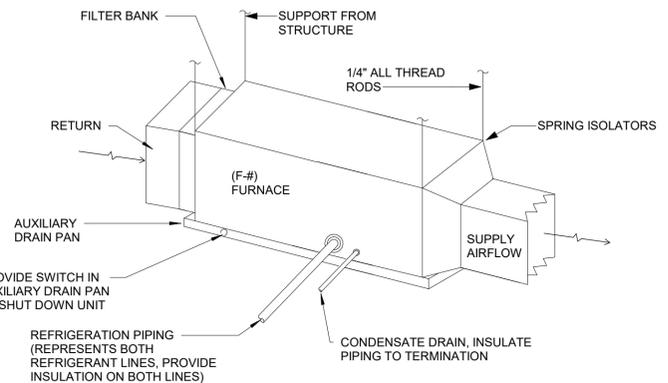


GENERAL NOTES

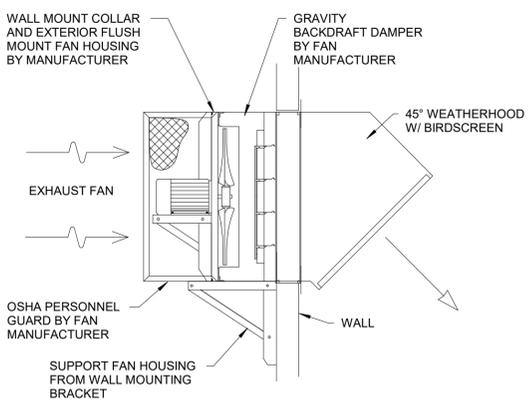
- FOR ALL INDOOR JOINTS, USE RTV SEALANT TO PREVENT HOT FLUE GAS LEAKAGE INTO THE BUILDING (USE A SHEET METAL PIPE AND CRIMPER FOR JOINING IDENTICAL SIZE SHEET METAL PIPES) USE THREE (3) #6 SHEET METAL SCREWS (SMS) PER VENT PIPE JOINT. THE VENT PIPE SEAM SHOULD BE ON TOP WITH ONE SMS ON TOP AND ONE SMS 120 DEGREES FROM THE TOP ON EACH SIDE. ADD NON-COMBUSTIBLE SUPPORT EVERY 5' TO 6' APART AND ADEQUATE FOR THE PIPING WEIGHT.
- DIMENSIONS SHOWN ARE FOR THE SCHEDULED MANUFACTURER. DIMENSIONS MAY VARY WITH OTHER MANUFACTURERS - COORDINATE AS REQUIRED TO INSTALL UNITS AS PER MANUFACTURER'S RECOMMENDATIONS.
- EACH MANUFACTURER HAS DIFFERENT REQUIREMENTS WITH REGARDS TO "ACCEPTABLE VENT LENGTH", IF ALTERNATIVE MANUFACTURER EQUIPMENT IS SUBMITTED THE ONUS IS ON THE CONTRACTOR TO VERIFY ALTERNATIVE MANUFACTURER REQUIREMENTS AND SUPPLY, MODIFY, OR ALTER INSTALLATION TO ACCOMMODATE ALTERNATE MANUFACTURERS INSTALLATION REQUIREMENTS AFTER RECEIVING ENGINEER OF RECORD APPROVAL.



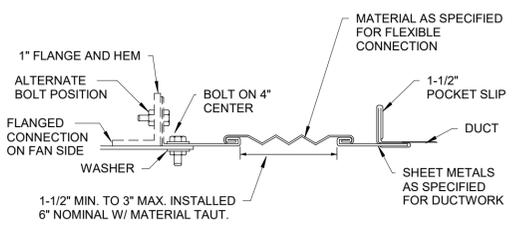
B3 LOUVER WITH DAMPER



A3 HORIZONTAL FURNACE DETAIL

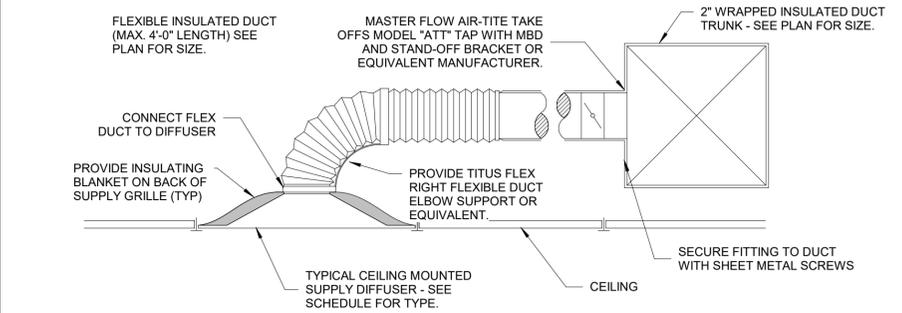


B5 EXHAUST PROP FAN WALL MOUNT DETAIL



A5 FLEXIBLE DUCT CONNECTOR

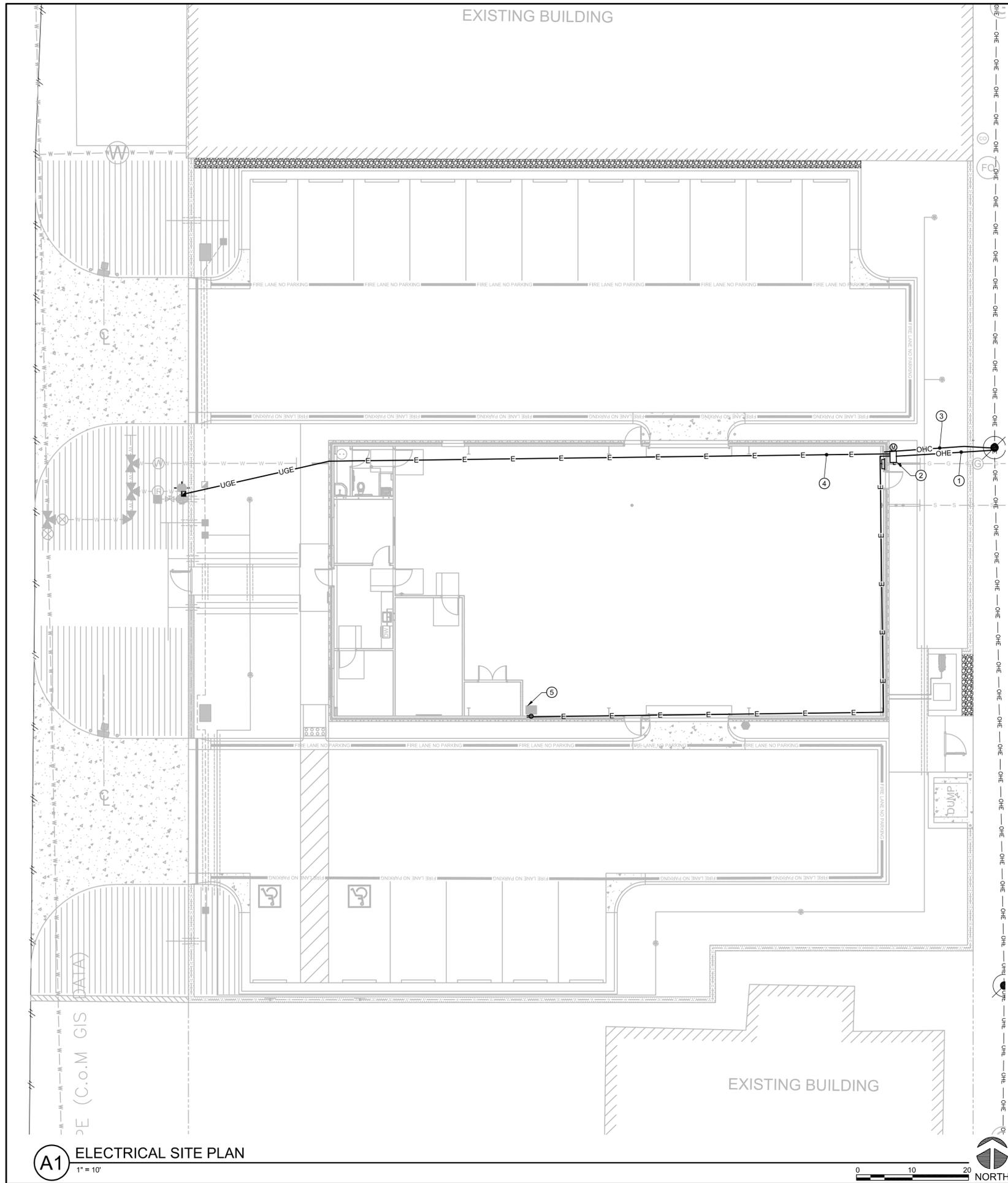
B1 LOW INTENSITY INFRARED HEATER (IRUH)



A1 SUPPLY AIR DIFFUSER MOUNTING FLEX

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A1 ELECTRICAL SITE PLAN
1" = 10'

GENERAL NOTES

- A. COORDINATE WITH THE UTILITY SERVICE PROVIDERS FOR ALL REQUIREMENTS FOR DELIVERING POWER AND COMMUNICATION SERVICE TO THE NEW BUILDING.
- B. CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EARTH WORK.

KEY NOTES

AS INDICATED BY: (10)

1. NEW OVERHEAD SECONDARY ELECTRICAL SERVICE. COORDINATE WITH ONCOR ELECTRIC DELIVERY FOR ALL REQUIREMENTS WITH GETTING OVERHEAD SERVICE AND WEATHERHEAD.
2. NEW KWH METER AND SERVICE DISCONNECT. REFER TO ELECTRICAL RISER DIAGRAM ON SHEET E-501 FOR ADDITIONAL INFORMATION.
3. NEW OVERHEAD COMMUNICATIONS SERVICE. COORDINATE WITH OWNER AND THEIR COMMUNICATION SERVICE PROVIDER FOR ALL REQUIREMENTS.
4. HOT BOX ENCLOSURE. EXTEND (2) #10 AWG + #10 GND IN 3/4" CONDUIT TO 15A/1P BREAKER.
5. RECEPTACLE FOR IRRIGATION CONTROLLER. EXTEND (2) #12 AWG + #12 GND IN 3/4" CONDUIT TO A 20A/1P BREAKER.

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Electrical Site Plan

E-100



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PROJECT NO.
40263.22

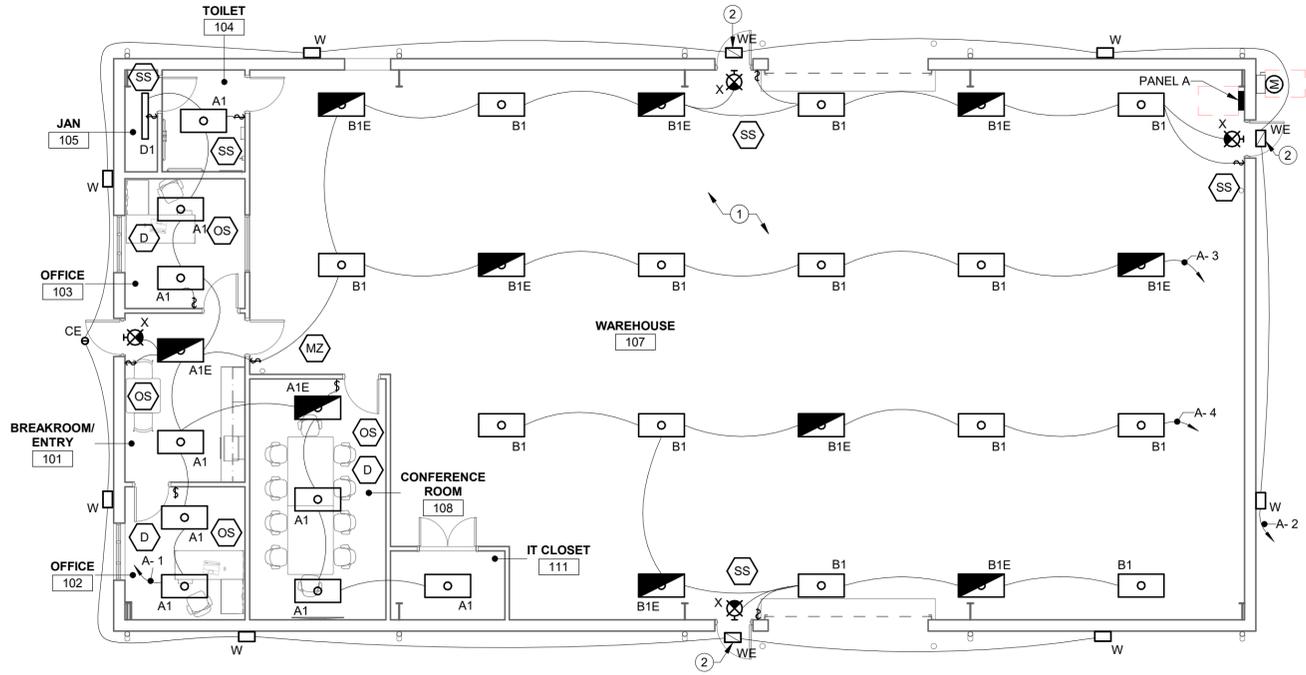
#	DATE	DESCRIPTION
-	04/24/2023	Permit Set

GENERAL NOTES

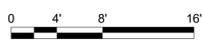
- A. COORDINATE LOCATION OF LIGHT FIXTURES WITH ARCHITECTURAL AND MECHANICAL.
- B. ALL EMERGENCY AND EGRESS LIGHTING SHALL BE CONNECTED TO THE SAME BRANCH CIRCUIT SERVING THE NORMAL LIGHTS AND SHALL BE ON THE LINE SIDE OF RELAYS OR SWITCHING DEVICES.
- C. REFER TO KEYED NOTES FOR CONTROL OF ADDITIONAL EMERGENCY LIGHTING. ALL EXIT SIGNS SHALL BE CONNECTED FOR CONTINUOUS OPERATION.
- D. AT LOCATIONS WHERE ROOM LIGHT FIXTURES ARE CONTROLLED THROUGH THE USE OF OCCUPANCY SENSORS, PROVIDE THE NUMBER OF SENSORS AND LOCATE THE UNITS AS REQUIRED FOR COMPLETE ROOM COVERAGE. WHERE MORE THAN ONE SENSOR IS LOCATED IN A COMMON SPACE, CONNECT THE UNITS SUCH THAT DETECTION OF OCCUPANCY FROM EITHER UNIT WILL ENERGIZE THE LIGHTING. WHERE SWITCHES ARE SHOWN IN CONJUNCTION WITH OCCUPANCY SENSORS, CONNECT THE SWITCHES TO DE-ENERGIZE THE LIGHTING INDICATED REGARDLESS OF OCCUPANCY. ADJUST ALL SENSOR TIME DELAYS AND MOTION SENSITIVITIES DURING PROJECT CLOSEOUT TO MEET THE OPERATIONAL FUNCTION OF THE OWNER.
- E. EXACT LOCATION AND PLACEMENT OF EXIT LIGHTING SHALL BE FIELD DETERMINED TO ENSURE PROPER LINES OF SIGHT.
- F. RECESSED DOWN LIGHT FIXTURES INSTALLED IN LAY-IN CEILINGS SHALL BE PROVIDED WITH ADJUSTABLE T-BAR ATTACHMENT ARMS MANUFACTURED BY THE LIGHT FIXTURE COMPANY.
- G. PROVIDE DEDICATED NEUTRAL WIRE FOR ALL 120V OR 277V BRANCH CIRCUITS. NO MULTI-WIRE BRANCH CIRCUITS SHALL BE ALLOWED.

KEY NOTES

- AS INDICATED BY: (#) →
- 1. MOUNT FIXTURE TYPE "B1 AND B1E" AT 14'-0" AFF.
 - 2. MOUNT FIXTURE TYPE "WE" AT 9'-0" AFF.



A2 Electrical Lighting Plan
1/8" = 1'-0"



R. V. 23 4/24/2023 9:55:48 AM



CLIENT
Midland County
804 N. Fort Worth St.
Midland, TX

PROJECT NO.
40263.22

04/24/2023 Permit Set
DATE DESCRIPTION

Electrical Power Plan and Riser Diagram
E-121

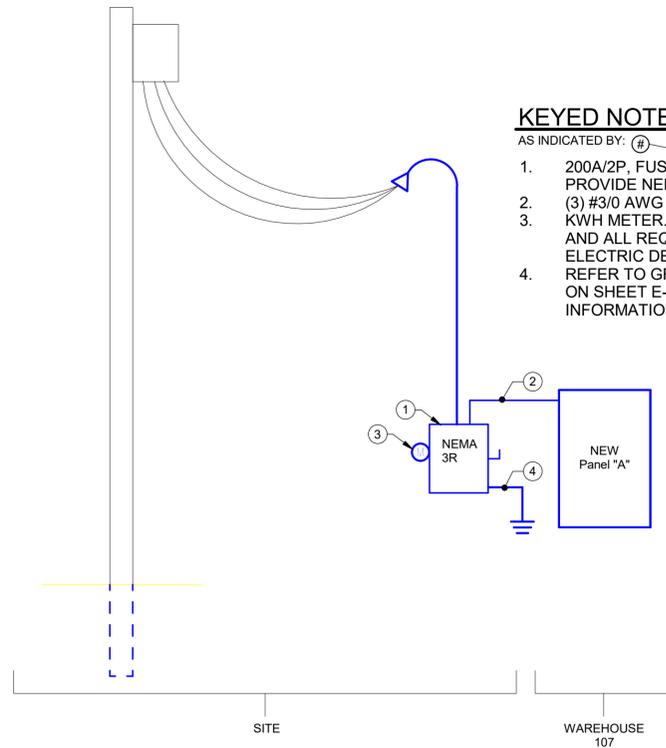
GENERAL NOTES

- A. ALL CONDUITS SERVING ROOF-MOUNTED EQUIPMENT SHALL BE EXTENDED INSIDE THE UNIT CURBS TO AVOID ADDITIONAL PITCHPANS. ALL EXTERIOR CONDUIT SHALL BE RIGID GALVANIZED STEEL OR LIQUID TIGHT FLEXIBLE CONDUIT AS SPECIFIED.
- B. AT LOCATIONS WHERE A COMMON EXHAUST FAN IS CONTROLLED THROUGH INDEPENDENT WALL SWITCHES, CONNECT THE SWITCHES IN PARALLEL TO ALLOW EITHER SWITCH TO OPERATE THE FAN.
- C. REFER TO THE MECHANICAL DRAWINGS FOR THE LOCATION AND NUMBER OF SUPPLY AND RETURN AIR DUCTS. FOR UNITS THAT ARE INDICATED TO HAVE SMOKE DETECTION COVERAGE, PROVIDE THE NUMBER OF DETECTORS AS REQUIRED TO COVER ALL OF THE DUCTS.
- D. CONTRACTOR IS RESPONSIBLE FOR PROVIDING CONNECTION OF ALL HVAC AND PLUMBING EQUIPMENT (BUT NOT LIMITED TO RTU'S, AHU'S, FANS, DAMPERS, LOUVERS, PUMPS AND CONTROLS).
- E. PROVIDE DEDICATED NEUTRAL WIRE FOR ALL 120V BRANCH CIRCUITS. NO MULTI-WIRE BRANCH CIRCUITS SHALL BE ALLOWED.

KEYED NOTES - RISER DIAGRAM

AS INDICATED BY: (1) (2) (3) (4)

- 1. 200A/2P, FUSE, SERVICE RATED DISCONNECT. PROVIDE NEMA 3R ENCLOSURE.
- 2. (3) #3/0 AWG + #4 GND IN 2 1/2" CONDUIT.
- 3. KWH METER. COORDINATE EXACT LOCATION AND ALL REQUIREMENTS WITH ONCOR ELECTRIC DELIVERY.
- 4. REFER TO GROUNDING ELECTRODE DETAIL ON SHEET E-001 FOR ADDITIONAL INFORMATION.

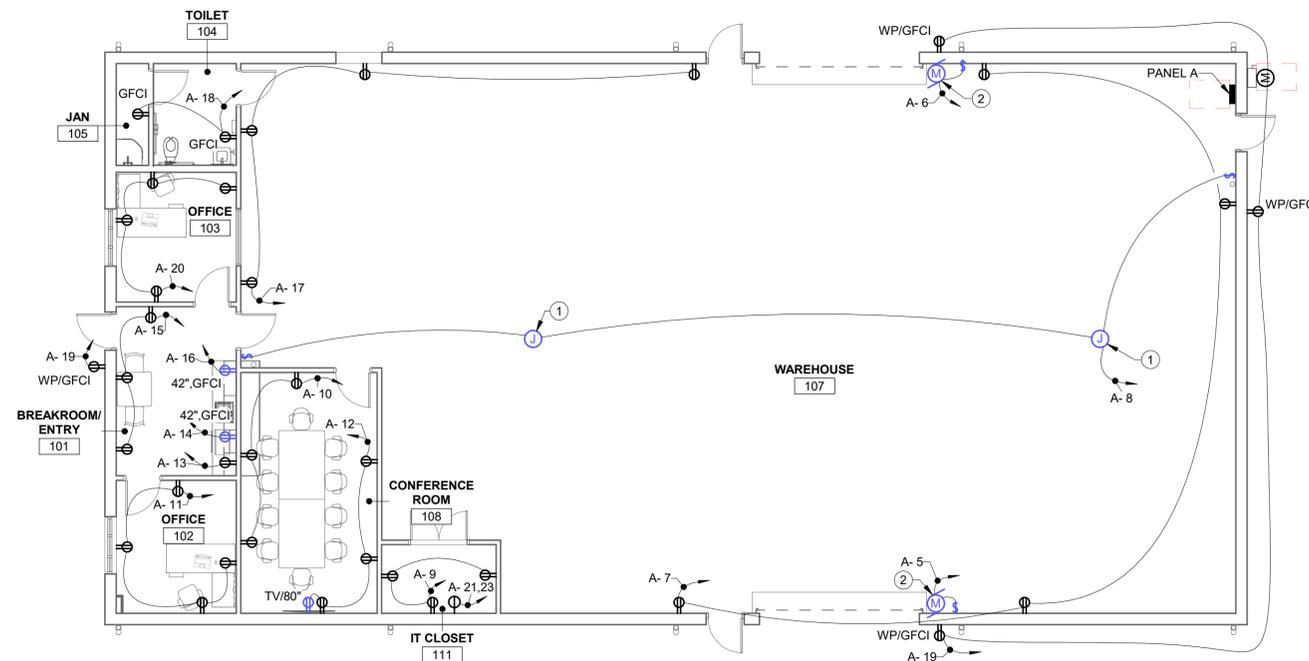


2 ELECTRICAL RISER DIAGRAM
NTS

KEY NOTES - POWER PLAN

AS INDICATED BY: (1) (2)

- 1. JUNCTION BOX FOR EXHAUST FAN. COORDINATE EXACT LOCATION WITH ARCHITECTURAL PRIOR TO ROUGH-IN.
- 2. PROVIDE POWER FOR OVERHEAD DOOR. COORDINATE EXACT LOCATION, SWITCH AND ALL REQUIREMENTS WITH OVERHEAD DOOR MANUFACTURER.



A2 Electrical Power Plan
1/8" = 1'-0"





04/24/2023

Parkhill.com

Facilities Warehouse
Midland County



CLIENT

Midland County

804 N. Fort Worth St.
Midland, TX

PROJECT NO.
40263.22

04/24/2023 Permit Set

DATE DESCRIPTION

Electrical
Schedules

E-601

LIGHTING CONTROL SEQUENCE MATRIX

DESIGNATION	TYPICAL SPACES	DIMMING	NETWORKED	OCCUPANCY (AUTO ON)	OCCUPANCY (VACANCY)	STAND ALONE	TIME CLOCK	WIRELESS	DESCRIPTION OF LIGHTING CONTROL DEVICES WITHIN SPACE
D	•OFFICES •CONFERENCE ROOMS •NURSE •LARGE STORAGE ROOMS •WORK ROOMS •LOUNGE •NURSE RESTROOMS	Yes	No	No	Yes	Yes	No	No	•WALL STATION WITH ON/OFF AND 0-10V DIMMING CAPABILITIES. PROVIDE CONNECTION FOR CONTROL OF LIGHTING THROUGH MULTIPLE SWITCH LOCATIONS. •CEILING MOUNTED OCCUPANCY (VACANCY) SENSOR SHALL TURN ALL LUMINAIRES OFF AFTER TIMEOUT (20 MIN.) EXPIRES.
MZ	•GYMS •CLASSROOMS	Yes	No	No	Yes	Yes	No	No	•PROGRAMMABLE MULTI-BUTTON, MULTI-ZONE TYPE WALL SWITCH WITH 0-10V DIMMING CAPABILITIES. ZONES ARE INDICATED BY LOWER CASE LETTERS ON PLANS INDICATING EACH ZONE OF CONTROL. WALL SWITCH WITH ON/OFF AND 0-10V DIMMING CAPABILITIES. PROVIDE CONNECTIONS REQUIRED FOR CONTROL OF LIGHTING THROUGH MULTIPLE SWITCH LOCATIONS. •OCCUPANCY (VACANCY) SENSOR. PROVIDE TYPES OF OCCUPANCY SENSORS SUITABLE FOR THE APPLICATION. SHALL TURN ALL LUMINAIRES OFF AFTER TIMEOUT (20 MIN.) EXPIRES. •PROVIDE DAY LIGHTING CONTROLS FOR AREAS WITH SKYLIGHTS AND WINDOWS INDICATED ON PLANS BY HATCHED AREA.
OS	•SMALL RESTROOMS •SMALL STORAGE ROOMS •JANITORS CLOSETS	No	No	No	Yes	Yes	No	No	•ON/OFF WALL SWITCH WITH INTEGRAL OCCUPANCY SENSOR. INTEGRAL OCCUPANCY SENSOR SHALL TURN ALL LUMINAIRES OFF AFTER (20 MIN.) EXPIRES. •(NETWORK CONTROLS NOT REQUIRED. STAND-ALONE CONTROLS ONLY FOR THIS SPACE.)
SS	•ELECTRICAL ROOMS •MECHANICAL ROOMS •KITCHEN	No	No	No	No	Yes	No	No	•ON/OFF WALL SWITCH CONTROL (ONLY) TO AVOID POSSIBLE SAFETY CONCERN OF INADVERTENT OF THAT COULD BE CAUSED BY OCCUPANCY SENSING DEVICES. •(NETWORK CONTROLS NOT REQUIRED. STAND-ALONE CONTROLS ONLY FOR THIS SPACE.)

NOTES:

- A. REFER TO PLANS FOR LIGHTING DEVICE LOCATIONS AND OTHER INFORMATION.
- B. SYMBOLS PROVIDED IN EACH SPACE (INDICATED IN THE LIGHTING CONTROLS SEQUENCE MATRIX SCHEDULE) ARE INTENDED TO DENOTE THE TYPES OF CONTROLS REQUIRED FOR EACH ASSOCIATED SPACES. THE SWITCH SYMBOLS DENOTE REQUIRED LOCATIONS FOR THE CONTROL DEVICES IN EACH ASSOCIATED SPACE.
- C. IN ADDITION TO CONTROL TYPES INDICATED. PROVIDE DAYLIGHT CONTROLS IN ALL AREAS SHOWN WITH DAYLIGHTING ZONES (INDICATED BY HATCHED AREAS ON PLANS). DIMMABLE DRIVERS IN EACH DAYLIGHT ZONE TO BE DIMMED SEPARATELY BY ZONE (CURRENT LIGHT LEVEL TO OFF, CONTINUOUS DIMMING, NO STEP DIMMING). DIMMING FUNCTION IN EACH DAYLIGHT ZONE IS TO MAINTAIN EVEN ILLUMINATION ACROSS THE ZONE, BASED ON THE SETTINGS OF THE SWITCH.
- D. PROVIDE NUMBER OF RELAY PACKS, DIMMING RELAY PACKS, OCCUPANCY SENSORS AND PHOTOCELLS FOR COMPLETE AND PROPER OPERATION OF THE LIGHTING SYSTEM.
- E. IN COMMON USE SPACES SUCH AS CORRIDORS, LOBBIES, CAFETERIA, AND HUBS/COLLABS. PROVIDE CONNECTION TO FIRE ALARM TO BRING LIGHTING IN THESE AREAS/SPACES TO FULL "ON" IN THE EVENT OF AN ALARM.
- F. LIGHTING CONTROLS SHALL COMPLY WITH THE REQUIREMENTS OF THE IECC 2015 AND SHALL BE COMMISSIONED IN ACCORDANCE WITH THE REQUIREMENTS OF IECC 406.
- G. REFER TO SPECIFICATION SECTION 26 09 43 NETWORKED LIGHTING CONTROLS FOR ADDITIONAL REQUIREMENTS.

PANELBOARD SCHEDULE

PANELBOARD: A		MIN AIC RATING: 17,746									
DISTRIBUTION: 120/240V, 1 PHASE, 3 WIRE		MLO 200 A									
SUPPLY FROM:		ENCLOSURE: NEMA 1									
LOCATION: WAREHOUSE 107		MOUNTING: SURFACE									
CKT	TRIP AMPS	POLES	CIRCUIT DESCRIPTION	A	B	A	B	CIRCUIT DESCRIPTION	POLES	TRIP AMPS	CKT
1	20 A	1	LIGHTING	400 VA		470 VA		LIGHTING	1	20 A	2
3	20 A	1	LIGHTING		1538 VA		1154 VA	LIGHTING	1	20 A	4
5	20 A	1	OVERHEAD DOORS	10000 VA		10000 VA		OVERHEAD DOORS	1	20 A	6
7	20 A	1	RECEPTACLE		720 VA		384 VA	FAN JUNCTION BOX	1	20 A	8
9	20 A	1	RECEPTACLE	540 VA		540 VA		RECEPTACLE	1	20 A	10
11	20 A	1	RECEPTACLE		720 VA		720 VA	RECEPTACLE	1	20 A	12
13	20 A	1	RECEPTACLE	180 VA		180 VA		RECEPTACLE	1	20 A	14
15	20 A	1	RECEPTACLE		540 VA		180 VA	RECEPTACLE	1	20 A	16
17	20 A	1	RECEPTACLE	720 VA		360 VA		RECEPTACLE	1	20 A	18
19	20 A	1	RECEPTACLE		720 VA		720 VA	RECEPTACLE	1	20 A	20
21	20 A	2	IT RECEPTACLE	750 VA		192 VA		RH-2 / RH-4	1	20 A	22
23					750 VA		2640 VA	AC-1 / CU-1	2	30 A	24
25	30 A	2	BC-1	1692 VA		2640 VA		EF-2	1	20 A	26
27					1692 VA		1056 VA	EF-2	1	20 A	28
29	20 A	1	RH-1 / RH-3	192 VA		1000 VA		L1 / L-2 / EF-1	1	20 A	30
31					1500 VA		--	SPACE	1	--	32
33	30 A	2	WH-1	1500 VA		--		SPACE	1	--	34
35	--	1	SPACE	--		--		SPACE	1	--	36
37	--	1	SPACE	--		--		SPACE	1	--	38
39	--	1	SPACE	--		--		SPACE	1	--	40
41	--	1	SPACE	--		--		SPACE	1	--	42

PHASE TOTALS	LOAD	CURRENT	NOTES:	
PHASE A	31356 VA	261 A	TOTAL CONNECTED LOAD	46390 VA
PHASE B	15034 VA	125 A	ESTIMATED DEMAND LOAD	46390 VA
PHASE C	0 VA	0 A	DEMAND LINE AMPS	193 A

LIGHTING FIXTURE SCHEDULE

TYPE	ELECTRICAL DATA	MANUFACTURER	MODEL	LAMP	DESCRIPTION
A1	120 V/1-38 VA	LITHONIA	2BLT-4-48L-ADSM-T-LP840	LED	2X4 LED TROFFER WITH 4800 LUMENS AND 0-10V DIMMING DOWN TO 1%.
A1E	120 V/1-22 VA	LITHONIA	2BLT-4-48L-ADSM-T-LP840-EL14L	LED	SAME AS TYPE "A1" EXCEPT WITH EMERGENCY BATTERY PACK.
B1	120 V/1-128 VA	METALUX	OHBL-12-SE-W-UNV-L840-CD-C3(1)-U	LED	2X4 LED TROFFER WITH 1200 LUMENS AND 0-10V DIMMING DOWN TO 1%.
B1E	120 V/1-128 VA	METALUX	OHBL-12-SE-W-UNV-L840-EL20W-CD-C3(1)-U	LED	SAME AS TYPE "B1" EXCEPT WITH EMERGENCY BATTERY PACK.
CE	120 V/1-0 VA	LITHONIA	LDN6-AL02-SWW1-MVOLT-UGZ-HSG-P-S1055CP-FMC	LED	6" LED CAN LIGHT WITH SPECTACULAR REFLECTOR, WHITE TRIM AND INTEGRAL 0-10V BATTERY PACK.
D1	120 V/1-17 VA	LITHONIA	LBL4-3000LM-80CRI-40K-MIN10-GZT-MVOLT-NLIGHT	LED	1X4 LED WRAPAROUND.
W	120 V/1-47 VA	LITHONIA	WST-2-10A700/40K-SR3-MVOLT-DMG-DDBXD	LED	TRAPEZOIDAL LED WALL MOUNTED FIXTURE WITH TYPE III DISTRIBUTION AND INTEGRAL 0-10V DIMMING DRIVER WITH DARK BRONZE FINISH
WE	120 V/1-47 VA	LITHONIA	WST-2-10A700/40K-SR3-MVOLT-DMG-ELCW-DDBXD	LED	TRAPEZOIDAL LED WALL MOUNTED FIXTURE WITH TYPE III DISTRIBUTION AND INTEGRAL 0-10V DIMMING DRIVER WITH DARK BRONZE FINISH
X	0 V/1-7 VA	LITHONIA	EXRG-EL-M6	LED	LED EXIT SIGN RED LETTERS, MAINTENANCE-FREE NICAD BATTERY, AND INTEGRAL SELF TEST.

- A. LIGHTED EXIT SIGNS SHALL BE CONNECTED TO THE UNSWITCHED SIDE OF THE CIRCUIT SHOWN ON PLANS.
- B. AT LOCATIONS WHERE WRAPAROUND FIXTURES ARE INSTALLED IN AREAS WITHOUT CEILINGS, PROVIDE RIGID GALVANIZED STEEL CONDUIT PENDANTS AND STEEL FRAMING CHANNEL AS REQUIRED.

MECHANICAL EQUIPMENT ELECTRICAL SCHEDULE

MARK	VOLTAGE	PHASE	NO. OF POLES	PANEL	CIRCUIT	BREAKER	CONDUIT	CONDUCTOR	DISCONNECT	NOTE
AC-1	240 V	1	2	A	24,26	30 A	3/4"	(2) #10 AWG + #10 GND	0 A	1
BC-1	240 V	1	2	A	25,27	30 A	3/4"	(2) #10 AWG + #10 GND	0 A	1
CU-1	240 V	1	2	A	24,26	30 A	3/4"	(2) #10 AWG + #10 GND	30 A	2
EF-1	120 V	1	1	A	30	20 A	3/4"	(2) #12 AWG + #12 GND	0 A	1
EF-2	120 V	1	1	A	28	20 A	3/4"	(2) #12 AWG + #12 GND	0 A	1
L-1	120 V	1	1	A	30	20 A	3/4"	(2) #12 AWG + #12 GND	0 A	1
L-2	120 V	1	1	A	30	20 A	3/4"	(2) #12 AWG + #12 GND	0 A	1
RH-1	120 V	1	1	A	29	20 A	3/4"	(2) #12 AWG + #12 GND	0 A	1
RH-2	120 V	1	1	A	22	20 A	3/4"	(2) #12 AWG + #12 GND	0 A	1
RH-3	120 V	1	1	A	29	20 A	3/4"	(2) #12 AWG + #12 GND	0 A	1
RH-4	120 V	1	1	A	22	20 A	3/4"	(2) #12 AWG + #12 GND	0 A	1
WH-1	240 V	1	2	A	31,33	30 A	3/4"	(2) #10 AWG + #10 GND	30 A	3

NOTES:

- 1. PROVIDE A MOTOR RATED SWITCH. OVERLOADS SHALL MATCH MOTOR RATING.
- 2. PROVIDE ROOF-MOUNTED WP/GFCI RECEPTACLE MOUNTED ON/NEAR HVAC EQUIPMENT.
- 3. PROVIDE FUSED DISCONNECT/STARTER. STARTER SHALL BE SIZED TO MATCH OVERLOAD RATINGS.
- 4. PROVIDE AND INSTALL A DUCT-MOUNTED SMOKE DETECTOR ON THE RETURN AND SUPPLY SIDE OF UNIT. EXTEND AND CONNECT TO FACP AND COORDINATE WITH MECHANICAL FOR AUTOMATIC SHUTOFF OF UNIT AS REQUIRED.