# WORLD HERITAGE CENTER 95% CONSTRUCTION DOCUMENTS

ROOSEVELT AVENUE & VFW BOULEVARD SAN ANTONIO, TEXAS DECEMBER 1, 2021

SHEET INDEX:

## OWNER:

Public Works Department The City of San Antonio Municipal Plaza Building 114 W. Commerce, 6th Floor San Antonio, TX 78283 (210) 207-8022

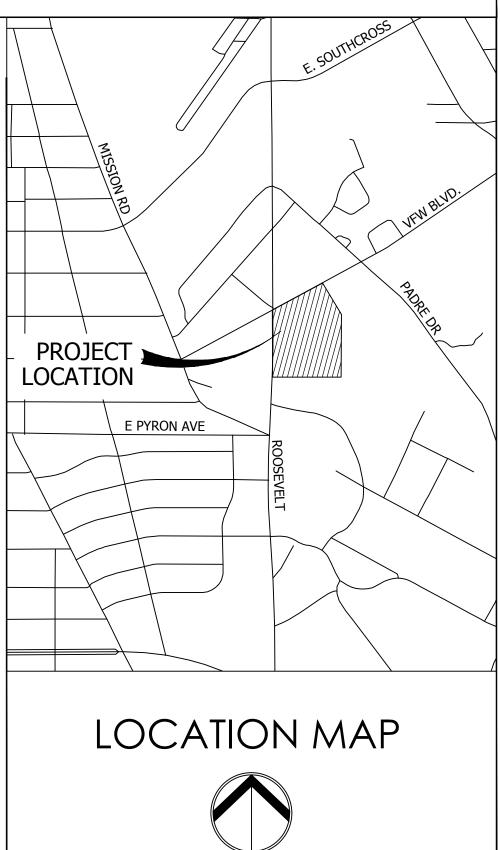
World Heritage Office The City of San Antonio 101 S. Santa Rosa Avenue San Antonio, TX 78207 (210) 207-2111

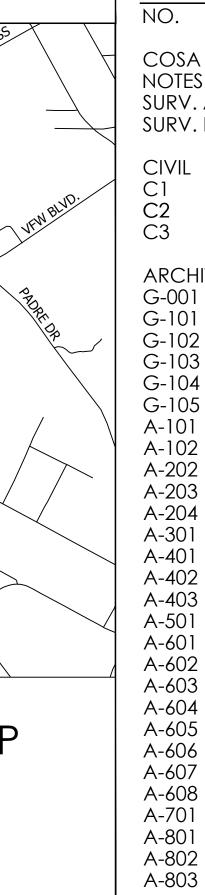




## CITY COUNCIL:

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PRIME CONSULTANT/LANDSCAPE ARCHITECT/CIVIL ENGINEER/ STRUCTURAL ENGINEER



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**ARCHITECT** 



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MEP ENGINEERING

WALL DETAILS

MISC. DETAILS

INTERIOR ELEVATIONS

INTERIOR ELEVATIONS

INTERIOR ELEVATIONS



Project Verde, LLC 723 S. Flores San Antonio, TX 78204 (210) 263-3246

UTILITIES



Young Professional Recourses 8209 Rough Rider Dr #101, Windcrest San Antonio, TX 78239 Tel: (210) 590-9215

SURVEY



Poznecki-Camarillo, LLC 5835 Callaghan Rd, Ste. 200 San Antonio, TX 78228 Tel: (210) 349-3273

### GENERAL NOTES:

- 1. ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF SAN ANTONIO STANDARD SPECIFICATIONS FOR CONSTRUCTION JUNE 2008, OR LATEST.
- 2. NO EXTRA PAYMENT SHALL BE ALLOWED FOR WORK CALLED FOR ON THE PLANS, BUT NOT INCLUDED IN THE BID PROPOSAL. THIS INCIDENTAL WORK WILL BE REQUIRED AND SHALL BE INCLUDED IN THE PAY ITEM TO WHICH IT RELATES.
- 3. THE CONTRACTOR SHALL PROVIDE ACCESS FOR THE DELIVERY OF MAIL BY THE U.S. POSTAL SERVICE.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL OR BETTER CONDITION ANY DAMAGE DONE TO EXISTING FENCES, CONCRETE ISLANDS, STREET PAVING, CURBS, SHRUBS, BUSHES OR DRIVEWAYS. (NO SEPARATE PAY ITEM.)
- 5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT ALL SIGNS AND BARRICADES ARE PROPERLY INSTALLED AND MAINTAINED. ALL LOCATIONS AND DISTANCES WILL BE DECIDED UPON IN THE FIELD BY THE CONTRACTOR, USING THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". THE CITY'S CONSTRUCTION INSPECTOR AND TRAFFIC ENGINEERING REPRESENTATIVE WILL ONLY BE RESPONSIBLE TO INSPECT BARRICADES AND SIGNS. IF, IN THE OPINION OF THE TRAFFIC ENGINEERING REPRESENTATIVE AND THE CONSTRUCTION INSPECTOR, THE BARRICADES AND SIGNS DO NOT CONFORM TO ESTABLISHED STANDARDS OR ARE INCORRECTLY PLACED OR ARE INSUFFICIENT IN QUANTITY TO PROTECT THE GENERAL PUBLIC, THE CONSTRUCTION INSPECTOR SHALL HAVE THE OPTION TO STOP OPERATIONS UNTIL SUCH TIME AS THE CONDITIONS ARE CORRECTED.
- 6. IF THE NEED ARISES, ADDITIONAL BARRICADES AND DIRECTIONAL DEVICES MAY BE ORDERED BY THE TRAFFIC ENGINEERING REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
- 7. DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.171 C.P.S. MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.
- 3. CONTRACTOR SHALL NOTIFY THE CITY INSPECTOR TWENTY FOUR (24) HOURS PRIOR TO BACKFILL OF ANY UTILITY TRENCHES TO SCHEDULE FOR DENSITY TEST AS REQUIRED.
- 9. CONTRACTOR SHALL PRESERVE ALL CONSTRUCTION STAKES, MARKS, ETC. IF ANY ARE DESTROYED OR REMOVED BY THE CONTRACTOR OR HIS EMPLOYEES, THEY SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 10. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF EXISTING UTILITIES. CONTRACTOR SHALL NOTIFY THE FOLLOWING AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO EXCAVATION OPERATION:

SAN ANTONIO WATER SYSTEM (SAWS)
BEXAR METROPOLITAN WATER DISTRICT (BEXAR MET)
COSA DRAINAGE
COSA SIGNAL OPERATIONS
TEXAS STATE WIDE ONE CALL LOCATOR
- CITY PUBLIC SERVICE ENERGY
- TIME WARNER

233-2010 354-6538 / 357-5741 207-8048 207-7720 / 207-7765 1-800-344-8377

- TIME WARNER - AT&T - MCI

- 11. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE RECORDS AND ARE NOT GUARANTEED, BUT SHALL BE INVESTIGATED AND VERIFIED BY THE CONTRACTOR BEFORE STARTING WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO AND FOR THE MAINTENANCE AND PROTECTION OF THE EXISTING UTILITIES EVEN IF THEY ARE NOT SHOWN ON THE PLANS. LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN HERE ARE APPROXIMATE ONLY. ACTUAL LOCATIONS AND DEPTHS MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND THEY SHALL BE RESPONSIBLE FOR PROTECTION OF SAME DURING CONSTRUCTION.
- 12. ALL WASTE MATERIAL SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE THEIR SOLE RESPONSIBILITY TO DISPOSE OF THIS MATERIAL OFF THE LIMITS OF THE LIMITS OF THE PROJECT. NO WASTE MATERIAL SHALL BE PLACED IN EXISTING LOWS THAT WILL BLOCK OR ALTER FLOW LIMITS OF EXISTING ARTIFICIAL OR NATURAL DRAINAGE.
- 13. THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIAL IN THE 100-YEAR FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN DEVELOPMENT PERMIT.
- 14. THE CONTRACTOR SHALL MAINTAIN ALL ADJOINING STREETS AND TRAVELED ROUTES FREE FROM SPILLED AND/OR TRACKED CONSTRUCTION MATERIALS AND/OR DEBRIS.
- 15. IF THE CONTRACTOR ENCOUNTERS ANY ARCHAEOLOGICAL DEPOSITS DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR MUST STOP EXCAVATION IMMEDIATELY, CONTACT CITY INSPECTOR, AND CALL THE CITY HISTORIC PRESERVATION OFFICE AT 207-7306 OR 207-3327 FOR AN ARCHAEOLOGICAL INVESTIGATION, THE CONTRACTOR CANNOT BEGIN EXCAVATION AGAIN WITHOUT WRITTEN PERMISSION FROM THE CITY.
- 15.1. IF MORE THAN THREE (3) DAYS ARE REQUIRED FOR INVESTIGATION (NOT INCLUDING HOLIDAY AND WEEKENDS) AND IF THE CONTRACTOR IS UNABLE TO WORK IN OTHER AREAS, THEN THE CONTRACTOR WILL BE ALLOWED TO NEGOTIATE FOR ADDITIONAL CONSTRUCTION TIME UPON WRITTEN REQUEST WITHIN TEN (10) DAYS AFTER THE FIRST NOTICE TO THE CITY OF ARCHAEOLOGICAL INVESTIGATION FOR EACH EVENT.
- 15.2. IF THE TIME REQUIRED FOR INVESTIGATION IS LESS THAN OR EQUAL TO THREE (3) DAYS FOR EACH EVENT, CONTRACT DURATION WILL NOT BE EXTENDED.
- 16. IF SUSPECTED CONTAMINATION IS ENCOUNTERED DURING CONSTRUCTION OPERATIONS, C.O.S.A. SHALL BE NOTIFIED IMMEDIATELY WHEN CONTAMINATED SOILS AND/OR GROUNDWATER ARE ENCOUNTERED AT LOCATIONS NOT IDENTIFIED IN THE PLANS. THE NOTIFICATION SHOULD INCLUDE THE STATION NUMBER, TYPE OF CONTAMINATED MEDIA, EVIDENCE OF CONTAMINATION AND MEASURES TAKEN TO CONTAIN THE CONTAMINATED MEDIA AND PREVENT PUBLIC ACCESS. THE CONTAMINATED SOIL AND/OR GROUNDWATER SHALL NOT BE REMOVED FROM THE LOCATION WITHOUT PRIOR C.O.S.A. APPROVAL. THE CONTRACTOR MUST STOP THE EXCAVATION IMMEDIATELY AND CONTACT THE C.O.S.A. INSPECTOR. THE CONTRACTOR CANNOT BEGIN EXCAVATION ACTIVITIES WITHOUT WRITTEN PERMISSION FROM THE CITY.
- 17. CONTRACTOR IS TO INCLUDE A MAILBOX POST BLOCKOUT FOR VACANT LOTS AND ALL RESIDENCES WHICH DO NOT HAVE MAILBOXES AT THE CURB. BLOCKOUTS ARE PROVIDED FOR FUTURE USE BY THE POST OFFICE.
- 18. CONTRACTOR SHALL NOT REMOVE OR ADJUST ANY VIA FACILITIES. THE CONTRACTOR MUST CONTACT VIA FOURTEEN (14) DAYS PRIOR, FOR THE REMOVAL OF BENCHES, STOP POLES OR ANY OTHER VIA FACILITIES THAT MAY BE PRESENT. PLEASE PROVIDE THIRTY (30) DAYS PRIOR NOTICE FOR SHELTER REMOVAL (TELEPHONE NUMBERS: (210) 362-2155 OR (210) 362-2096). THE CONTRACTOR WILL BE LIABLE FOR ANY DAMAGES TO VIA FACILITIES NOT REMOVED BY VIA. THE CONTRACTOR IS REQUIRED TO REPLACE ALL FLATWORK REMOVED OR DAMAGED IN THE COURSE OF EXECUTING THE CONTRACT UNLESS OTHERWISE NOTED BY VIA. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING VIA FACILITIES IF ADJACENT TO WORK AREA.

#### TREE PROTECTION AND PRESERVATION GENERAL NOTES:

- 1. NO UTILITY OR STREET EXCAVATION WORK SHALL BEGIN IN AREAS WHERE TREE PRESERVATION AND TREATMENT MEASURES HAVE NOT BEEN COMPLETED AND APPROVED.
- 2. TREE PROTECTION FENCING SHALL BE REQUIRED. TREE PROTECTION FENCING SHALL BE INSTALLED, MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING SITE CONSTRUCTION. DURING CONSTRUCTION ACTIVITY, AT LEAST A SIX-INCH LAYER OF COARSE MULCH SHALL BE PLACED AND MAINTAINED OVER THE ROOT PROTECTION ZONE (NO SEPARATE PAY ITEM).
- 3. THE CONTRACTOR SHALL AVOID CUTTING ROOTS LARGER THAN ONE INCH IN DIAMETER WHEN EXCAVATING NEAR EXISTING TREES. EXCAVATION IN THE VICINITY OF TREES SHALL PROCEED WITH CAUTION. THE CONTRACTOR SHALL CONTACT THE CITY INSPECTOR FOR GUIDANCE.
- 4. ROOTS WILL BE CUT WITH A ROCK SAW OR BY HAND, NOT BY AN EXCAVATOR OR OTHER ROAD CONSTRUCTION EQUIPMENT.
- 5. ALL CURB AND SIDEWALK WORK SHALL USE ALTERNATIVE CONSTRUCTION METHODS TO MINIMIZE EXTENSIVE ROOT DAMAGE TO TREES (REFER TO DETAILS).
- 6. EXPOSED ROOTS SHALL BE COVERED AT THE END OF THE DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL, MULCH, OR WET BURLAP.
- 7. NO EQUIPMENT, VEHICLES OR MATERIALS SHALL OPERATE OR BE STORED WITHIN THE ROOT PROTECTION ZONE OF ANY TREE NEAR THE PROJECT. ROOT PROTECTION ZONE IS ONE (1) FOOT OF RADIUS PER INCH OF TREE'S DIAMETER. A 10-INCH DIAMETER TREE WOULD HAVE A 10-FOOT RADIUS ROOT PROTECTION ZONE AROUND THE TREE ROOTS OR BRANCHES IN CONFLICT WITH THE CONSTRUCTION SHALL BE CUT CLEANLY ACCORDING TO PROPER PRUNING METHODS. OAK WOUNDS SHALL BE PAINTED OVER WITHIN 30 MINUTES TO PREVENT OAK WILT.
- 8. SAPLINGS, SHRUBS OR BUSHES TO BE CLEARED FROM THE PROTECTED ROOT ZONE AREA OF A LARGE TREE SHALL BE REMOVED BY HAND AS DESIGNATED BY THE INSPECTOR.
- 9. NO WIRES, NAILS OR OTHER MATERIAL MAY BE ATTACHED TO PROTECTED TREES.
- 10. TREES, TREE LIMBS, BUSHES AND SHRUBS LOCATED IN THE CITY STREET OR ALLEY RIGHT-OF-WAY OR PERMANENT EASEMENTS WHICH INTERFERE WITH PROPOSED CONSTRUCTION ACTIVITIES SHALL BE PROPERLY PRUNED FOLLOWING THE ANSI A-300 STANDARDS FOR PRUNING. ALL TREE PRUNING SHALL BE COMPLETED BY A CITY OF SAN ANTONIO TREE MAINTENANCE LICENSED CONTRACTOR (ARTICLE 21-171, CITY CODE) ONLY AFTER APPROVAL FROM THE CAPITAL PROJECTS MANAGEMENT THROUGH THE INSPECTOR.
- 11. NO EXCESSIVE TREE TRIMMING WILL BE PERMITTED.
- 12. ALL DEBRIS GENERATED BY THE PRUNING AND TRIMMING OF THE TREES AND/OR BUSHES SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF PROPERLY (NO SEPARATE PAY ITEM).
- 13. TREES MUST BE MAINTAINED IN GOOD HEALTH THROUGHOUT THE CONSTRUCTION PROCESS. MAINTENANCE MAY INCLUDE, BUT NOT LIMITED TO: WATERING THE ROOT PROTECTION ZONE, WASHING THE FOLIAGE, FERTILIZATION, PRUNING, ADDITIONAL MULCH APPLICATIONS AND OTHER MAINTENANCE AS NEEDED ON THE PROJECT.
- 14. ANY TREE REMOVAL SHALL BE APPROVED BY THE CITY ARBORIST. (TELEPHONE: 207-0278)
- 15. TREES WHICH ARE DAMAGED OR LOST DUE TO THE CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED TO THE CITY'S SATISFACTION.
- 16. TREE PLANTING FOR MITIGATION OR ENHANCEMENT: ALL PLANTED TREES SHALL BE MAINTAINED IN A HEALTHY CONDITION AT ALL TIMES. THIS INCLUDES IRRIGATION, FERTILIZING, PRUNING AND OTHER MAINTENANCE AS NEEDED ON THE PROJECT. TREES THAT DIE WITHIN TWELVE (12) MONTHS SHALL BE REPLACED WITH A TREE OF EQUAL SIZE AND SPECIES.

## ACCESSIBILITY REQUIREMENTS:

- 1. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN VEHICULAR AND PEDESTRIAN ACCESS AT ALL TIMES TO LOCAL RESIDENCES AND BUSINESSES.
- 2. WHEN THE WORK REQUIRES THE EXCAVATION OF THE STREET AND THE REMOVAL OF THE EXISTING DRIVEWAY APPROACHES AND SIDEWALKS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY ALL-WEATHER ACCESS TO THE BUSINESS AND RESIDENCES. THE TEMPORARY DRIVEWAY APPROACHES SHALL BE CONSTRUCTED WITH FLEXIBLE BASE OR GRAVEL MATERIAL AT NO SEPARATE COST TO THE CITY.
- 3. PRIOR TO INITIATING THE CONSTRUCTION OF NEW DRIVEWAY APPROACHES, THE CONTRACTOR SHALL GIVE ADVANCE WARNING IN PERSON, OR IN WRITING, OF AT LEAST 48 HOURS TO EACH RESIDENCE THAT WILL BE IMMEDIATELY AFFECTED, SO THAT ALTERNATE PLANS MAY BE MADE BY THE RESIDENTS.
- 4. FOR BUSINESSES WITH MORE THAT ONE DRIVEWAY, AT LEAST ONE DRIVEWAY SHALL REMAIN OPEN WHILE THE OTHER NEW DRIVEWAY APPROACHES ARE CONSTRUCTED FOR BUSINESSES WITH ONLY ONE DRIVEWAY, THE NEW DRIVEWAY APPROACH SHALL BE CONSTRUCTED IN HALF WIDTHS, UNLESS A TEMPORARY ASPHALT DRIVEWAY IS FIRST INSTALLED AT NO SEPARATE COST TO THE CITY.

REVISIONS	DESCRIPTION			
	DATE			
	NO.			





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under the supervision of:
Bryan Kye Mask
L.A.# 2369

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DESIGNED BY:	TLL
DRAWN BY:	DAM
CHECKED BY:	ВКМ
DATE:	12/01/2021

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- 2. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE OWNER AND ADJUST CONSTRUCTION ACTIVITIES, DELIVERIES, STORAGE, ETC. TO ACCOMMODATE THE OWNER'S NEEDS FOR USE OF THESE FACILITIES.
- 3. THE CONSTRUCTION STAGING AREA IS LOCATED \_\_\_\_\_\_. THE EXACT BOUNDARIES OF THE STAGING AREA WILL BE AGREED TO BY THE OWNER AND THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL SECURE THE STAGING AREA WITH A MINIMUM OF A 6' CHAIN LINK FENCE WITH LOCKABLE GATES. THE STAGING AREA SHALL BE MAINTAINED WITH A DRIVING SURFACE SUITABLE TO PREVENT EROSION.
- 4. UPON COMPLETION OF THE CONSTRUCTION, THE STAGING AREA SHALL BE REMOVED. THE AREA DISTURBED SHALL BE REGRADED TO PROVIDE A SMOOTH CONTOUR. ALL GRAVEL, CRUSHED LIMESTONE, ETC. SHALL BE COMPLETELY REMOVED PRIOR TO FINISH GRADING.

#### SITE PLAN NOTES:

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION SURVEYING FOR THIS PROJECT.
- THE CONTRACTOR, AND THEIR AGENTS, SUBCONTRACTOR, ENGINEER, OR SURVEYOR ARE COMPLETELY RESPONSIBLE FOR THE VERIFICATION OF THE ACCURACY OF THE DIMENSION CONTROL FURNISHED HEREIN. THE OWNER AND HIS AGENTS ARE NOT RESPONSIBLE FOR THE ACCURACY OF THE COORDINATES FURNISHED. THE CONTRACTOR IS REQUIRED TO VERIFY ALL THE COORDINATES FOR ACCURACY.
- 3. COORDINATES PROVIDED INDICATE THE DESIGN INTENT OF THE LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF ANY INCONSISTENCIES OR DISCREPANCIES FOUND DURING CONSTRUCTION. THE CONTRACTOR SHALL VERIFY ALL COORDINATES DURING CONSTRUCTION LAYOUT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- 4. THE CONTRACTOR SHALL REFER TO BUILDING PLANS FOR ACTUAL BUILDING DIMENSIONS AND FOR DETAILED DIMENSIONING OF ENTRANCE FEATURES.
- 5. WRITTEN DIMENSIONS AND COORDINATES SHALL GOVERN OVER SCALED DRAWINGS.
- 6. ALL IMPROVEMENTS SHALL BE STAKED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE OWNER PRIOR TO CONSTRUCTION.
- 7. ALL CONSTRUCTION WILL CONFORM TO CITY OF SAN ANTONIO STANDARDS AND SPECIFICATIONS.
- 8. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB, FACE OF WALL, OR FACE OF BUILDING UNLESS OTHERWISE NOTED.
- 9. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL SIGNS, PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES WITH OTHER CONTRACTORS ON SITE.
- 10. LAYOUT AND GRADING FOR THE IMPROVEMENTS SHALL OCCUR AS DIRECTED BY THE LANDSCAPE ARCHITECT WITH THE FOLLOWING GUIDELINES:
- ALL WALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2% (1:48) IN THE DIRECTION OF THE DOWNHILL SIDE.
- THE LONGITUDINAL SLOPE OF THE WALKS SHALL BE NO GREATER THAN 5% (1:20) UNLESS OTHERWISE NOTED.
- ALL GRADES SHALL BE FINISHED TO A SMOOTH, FLOWING CONTOUR, MAINTAINING EXISTING FLOW PATTERNS UNLESS DIRECTED OTHERWISE.
- 12. FIRE LANE REQUIREMENTS TO BE PER CITY OF **SAN ANTONIO** STANDARDS. PAINT COLORS MAY VARY AND SHALL BE COORDINATED WITH LANDSCAPE ARCHITECT AND APPROVED BY FIRE MARSHAL PRIOR TO INSTALLATION.
- 13. THE CONTRACTOR SHALL VERIFY ALL BUILDING SETBACK LINES, EASEMENT LINES, AND VISIBILITY LINES IN THE FIELD PRIOR TO CONSTRUCTION.
- 14. TREE TRUNK LOCATIONS SHOWN ARE APPROXIMATE. IF LOCATIONS CONFLICT WITH ANY PROPOSED IMPROVEMENT, CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT FOR DIRECTION PRIOR TO ANY CONSTRUCTION.

#### **UTILITY NOTES:**

- 1. IN THE EVENT THAT EXISTING UTILITIES SUCH AS WATER, GAS, TELEPHONE, ELECTRIC, ETC., MUST BE TAKEN OUT OF SERVICE TO FACILITATE CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE TEMPORARY UTILITIES TO THE SATISFACTION OF THE OWNER.
- 2. THE CONTRACTOR SHALL USE EXTREME "CAUTION" WHEN WORKING IN AREAS ADJACENT TO GAS LINES, UNDERGROUND ELECTRIC CABLE, FIBER OPTIC CABLE AND UNDERGROUND TELEPHONE CABLE.
- 3. WHERE EXISTING UTILITIES OR SERVICE LINES ARE CUT, BROKEN OR DAMAGED, THE CONTRACTOR SHALL REPLACE OR REPAIR THE UTILITIES OR SERVICE LINES WITH THE SAME TYPE OF ORIGINAL MATERIAL AND CONSTRUCTION, OR BETTER, UNLESS OTHERWISE SHOWN OR NOTED ON THE PLANS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICTS IN GRADES AND ALIGNMENT.

## DEMOLITION PLAN NOTES:

- THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSING OF EXISTING STRUCTURES, UTILITIES, PAVEMENT, TREES, ETC., WITHIN CONSTRUCTION AREA, IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES. WHERE STRUCTURES ARE TO BE REMOVED, REMOVE BUILDING AND ALL ASSOCIATED PAVING; INCLUDING ALL REINFORCING, COMPACTED SUBGRADE, FOOTING AND BASE MATERIAL TO 12" BELOW FOOTINGS. FILL AND COMPACT ALL HOLES WITH APPROVED FILL MATERIAL TO FLUSH WITH SURROUNDING GRADES. REPAIR ANY DAMAGED AREAS TO EXISTING (PRIOR TO DEMOLITION) OR BETTER CONDITIONS.
- STATE LAW REQUIRES THAT DIG-TESS BE CONTACTED 48 HOURS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL,
- 4. PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED.
- 5. ANY AND ALL ON-SITE REFUSE SHALL BE PROPERLY REMOVED AT CONTRACTOR'S EXPENSE.
- 6. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR ON-SITE LOCATIONS OF EXISTING UTILITIES.
- ALL EXISTING SEWERS, PIPING AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND/OR REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH THE WORK. EXISTING UTILITIES, NOT IN USE, UNDER BUILDING FOOTPRINTS SHALL BE ABANDONED PER GEOTECHNICAL RECOMMENDATIONS.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISCONNECTION OF UTILITY SERVICES TO THE EXISTING BUILDINGS PRIOR TO DEMOLITION OF THE BUILDING.
- 9. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR THE SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF THE EXISTING FACILITIES.
- 10. CONTRACTOR MAY LIMIT SAWCUT AND PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS, BUT IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR.
- 11. ALL FENCES REMOVED TO FACILITATE CONSTRUCTION SHALL BE REPLACED AT THE EXISTING OR PROPOSED LOCATION AS DIRECTED BY THE OWNER'S PROJECT REPRESENTATIVE.
- 12. AT SITES WHERE DEMOLITION WILL OCCUR AT OR NEAR A PUBLIC STREET, THE CONTRACTOR SHALL SCHEDULE CONSTRUCTION ACTIVITIES AS SOON AS POSSIBLE SO THAT EDGES OF THE PAVEMENT WILL NOT BE LEFT UNPROTECTED LONGER THAN NECESSARY.
- 13. IF WATER WELL(S) IS DISCOVERED, PLUG IN ACCORDANCE WITH STATE REQUIREMENTS.
- 14. CONTRACTOR TO VERIFY PRESENCE OF HAZARDOUS MATERIAL IN DEMOLITION OF EXISTING STRUCTURES. ANY HAZARDOUS MATERIAL TO BE REMOVED IN ACCORDANCE WITH ALL NATIONAL AND GOVERNMENTAL REGULATIONS AND BEST PRACTICES (I.E. OSHA, ASTM, ETC.).
- 15. REMOVE TREES: REMOVE TREES BELOW FINISH GRADE. FILL AND COMPACT ALL HOLES WITH APPROVED FILL MATERIAL TO FLUSH WITH SURROUNDING GRADES. REPAIR ANY DAMAGED AREAS TO EXISTING (PRIOR TO DEMOLITION) OR BETTER CONDITIONS.
- 16. REMOVE POST: REMOVE EXISTING POST, INCLUDING FOOTINGS, ATTACHMENTS, HARDWARE AND OTHER ITEMS ASSOCIATED WITH THE POST. FILL AND COMPACT ALL HOLES WITH APPROVED FILL MATERIAL TO FLUSH WITH SURROUNDING GRADES. REPAIR ANY DAMAGED AREA TO EXISTING (PRIOR TO DEMOLITION) OR BETTER CONDITIONS.
- 17. COORDINATE ALL DEMOLITION AND CONSTRUCTION ACTIVITIES PRIOR TO COMMENCEMENT WITH CITY STAFF TO ENSURE SAFETY OF PATRONS.
- 18. CONTRACTOR SHALL DETERMINE LOCATIONS AND EXTENT OF ALL EXISTING SITE UTILITIES PRIOR TO COMMENCEMENT OF WORK.
- 19. PROTECT IN PLACE ALL ITEMS NOT SCHEDULED FOR REMOVAL OR RELOCATION, INCLUDING VEGETATION, HOSE BIBS, AND OTHER UTILITIES.
- 20. ALL SPECIFIED MATERIAL TO BE REMOVED AND DISPOSED OF OFF SITE.
- 21. CONTRACTOR SHALL ERECT LIMITS OF WORK BARRICADES TO ALLOW PEDESTRIAN CIRCULATION TO CONTINUE UNINTERRUPTED.
- 22. REFERENCE DETAIL BON SHEET LO.06 FOR TREE PROTECTION FENCING. INSTALL TREE PROTECTION FENCING BEFORE DEMOLITION COMMENCEMENT.

### GRADING NOTES:

- 1. STRIP TOPSOIL TO A DEPTH NOT TO EXCEED 6" STOCKPILE AND REDISTRIBUTE TO GRADED AREAS ONCE ROUGH GRADING OPERATIONS ARE COMPLETE. STOCKPILE AREA TO BE APPROVED BY OWNER AND LANDSCAPE ARCHITECT PRIOR TO GRADING.
- 2. ALL PROPOSED GRADES INDICATED ARE FINISHED GRADES. THE PROPOSED PAVING IS SHOWN TO FINISHED GRADE AND THE CONTRACTOR IS RESPONSIBLE FOR EXCAVATING FOR IMPROVEMENTS AS PART OF THE OVERALL MASS GRADING.
- 3. ALL LAND FORMS AND SWALES SHALL BE GRADED TO BE A SMOOTH, FLOWING, ROUNDED SURFACE PROVIDING POSITIVE DRAINAGE AND VISUAL CONTINUITY.
- 4. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL CLEARED BRUSH, DEBRIS, ETC. FROM WITHIN THE LIMITS OF CONSTRUCTION. DISPOSE OF MATERIAL OFF SITE.
- 5. EXISTING TREES WHICH ARE TO BE PRESERVED SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. CONSTRUCTION EQUIPMENT SHALL NOT OPERATE, PARK OR BE STOPPED UNDER THE CANOPIES OF EXISTING TREES.
- 6. WHEN CLEARING FOR GRADING, THE CONTRACTOR SHALL COORDINATE TREE PRESERVATION WITH THE LANDSCAPE ARCHITECT AND OWNERS REPRESENTATIVE.
- 7. GRADING FOR THE IMPROVEMENTS SHALL OCCUR AS DIRECTED BY THE LANDSCAPE ARCHITECT WITH THE FOLLOWING GUIDELINES:
- ALL WALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2% (1:48) IN THE DIRECTION OF THE DOWNHILL SIDE.
- THE LONGITUDINAL SLOPE OF THE WALKS SHALL BE NO GREATER THAN 5%. (1:20)
   ALL GRADES SHALL BE FINISHED TO A SMOOTH, FLOWING CONTOUR, MAINTAINING EXISTING FLOW PATTERNS UNLESS DIRECTED OTHERWISE.
- 8. REFER TO EXISTING CONDITIONS AND REMOVAL ITEMS PLAN FOR SURVEY, BENCHMARKS, DEMOLITION, EXISTING TREE REMOVAL, AND CLEARING INFORMATION.
- 9. REFER TO LAYOUT SHEETS FOR LAYOUT INFORMATION.
- 10. REFER TO CIVIL FOR UTILITY INFORMATION.
- 11. CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND MARKING OF ALL EXISTING UNDERGROUND OR ABOVE GROUND UTILITIES WITHIN THE PROJECT AREA.

## TREE PROTECTION NOTES:

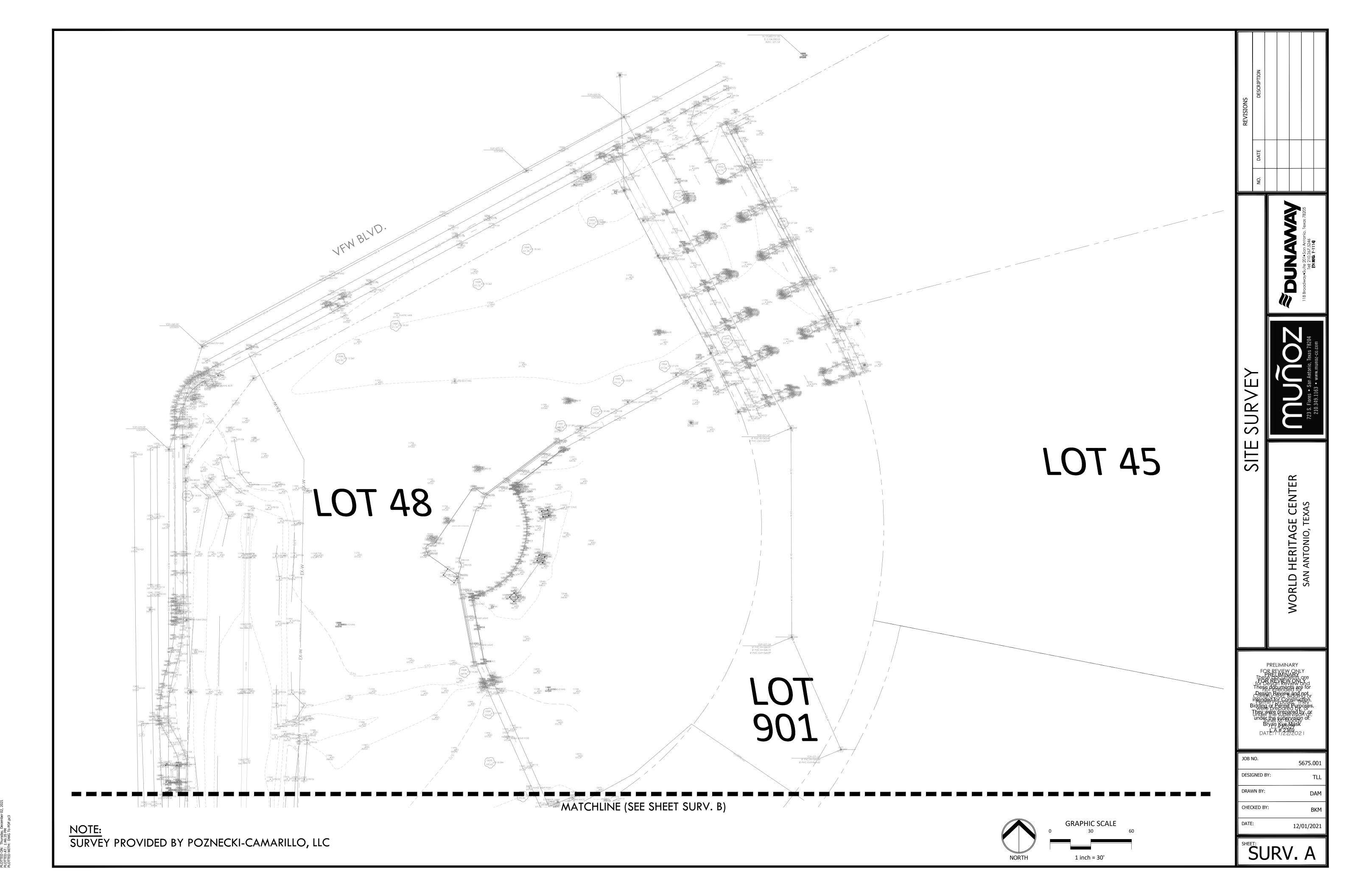
- 1. A ROOT PROTECTION ZONE (RPZ) WILL BE ESTABLISHED AROUND EACH TREE TO BE PRESERVED. THE ROOT PROTECTION ZONE SHALL BE AN AREA DEFINED BY THE RADIUS EXTENDING OUTWARD FROM THE TRUNK OF THE TREE A DISTANCE OF ONE (1) LINEAR FOOT FOR EACH INCH DIAMETER INCH OF THE TREE. (I.E. A 10" TREE WILL HAVE A 10' RADIUS ROOT PROTECTION ZONE.)
- 2. AN **ORANGE MESH FENCE** DELINEATING THE RPZ SHALL BE ERECTED AND MAINTAINED UNTIL CONSTRUCTION IS COMPLETED.
- 3. WHERE CONSTRUCTION OCCURS WITHIN THE RPZ THE TREE PROTECTION FENCING IS TO BE SET 4' FROM THE NEW CONSTRUCTION.
- 4. TREE TRUNK PROTECTION IS REQUIRED FOR ALL TREE TRUNKS IN AREAS WHERE CONSTRUCTION OCCURS WITHIN THE ROOT PROTECTION ZONE.
- 5. ALL ROOTS LARGER THAN ONE-INCH DIAMETER ARE TO BE CUT CLEANLY AND OAK WOUNDS PAINTED WITH APPROVED TREE PAINT WITHIN 30 MINUTES.
- 6. NO EQUIPMENT, VEHICLES OR MATERIALS SHALL BE OPERATED OR STORED WITHIN THE ROOT PROTECTION ZONE.
- 7. NO CLEAN-OUT AREAS WILL BE CONSTRUCTED SO THAT MATERIAL WILL BE IN OR MIGRATE TO THE ROOT PROTECTION ZONE.
- 8. NO GRADE CHANGES MORE THAN 3" IS ALLOWED WITHIN THE ROOT PROTECTION ZONE.
- 3. RPZ SHALL BE SUSTAINED IN A NATURAL STATE AND SHALL BE FREE FROM VEHICULAR OR MECHANICAL TRAFFIC.
- 4. THE RPZ SHALL BE COVERED WITH MULCH TO REDUCE MOISTURE STRESS. MULCH LOCATION AND AMOUNT SHALL COMPLY WITH CITY OF SAN ANTONIO UNIFIED DEVELOPMENT CODE, SECTION 35-523 (J)(1) OR AS APPROVED BY CITY ARBORIST.
- 5. ROOTS OR BRANCHES IN CONFLICT WITH CONSTRUCTION SHALL BE CUT CLEANLY ACCORDING TO PROPER PRUNING METHODS. ALL OAK WOUNDS SHALL BE PAINTED WITHIN 30 MINUTES TO PREVENT OAK WILT INFECTION.
- THE RPZ SHALL REMAIN PERVIOUS, I.E. GROUNDCOVER OR TURF AT COMPLETION OF LANDSCAPE INSTALLATION.
- 9. THE ASSOCIATED TREE PROTECTION DETAIL COMPLIES WITH THE MINIMUM TREE PROTECTION GUIDELINES FROM THE CITY OF SAN ANTONIO. WHERE POSSIBLE, PROVIDE FENCE TO TREE DRIP LINE OR GROUP TREES IN FENCE PERIMETER TO PROVIDE INCREASED PROTECTION.
- 10. SHRED (DOUBLE GRIND) TREES AND UNDERSTORY VEGETATION TO BE REMOVED FOR USE AS SHREDDED NATIVE BARK MULCH. IMPORT SHREDDED NATIVE BARK MULCH AS NECESSARY TO FULFILL THE REQUIREMENTS OF THE CONTRACT.
- 11. NO WORK SHALL BEGIN IN AREAS WHERE TREE PRESERVATION AND TREATMENT MEASURES HAVE NOT BEEN COMPLETED AND APPROVED.
- 12. TREES WHICH ARE DAMAGED OR LOST DUE TO THE CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED PER **UDC 35-523 (F) MITIGATION**.
- 13. TREES MUST BE MAINTAINED IN GOOD HEALTH THROUGHOUT THE CONSTRUCTION PROCESS. MAINTENANCE MAY INCLUDE BUT IS NOT LIMITED TO: WATERING THE ROOT PROTECTION ZONE, WASHING FOLIAGE, FERTILIZATION, PRUNING, ADDITIONAL MULCH APPLICATIONS AND OTHER MAINTENANCE AS NEEDED ON THE PROJECT.

## **EROSION CONTROL NOTES:**

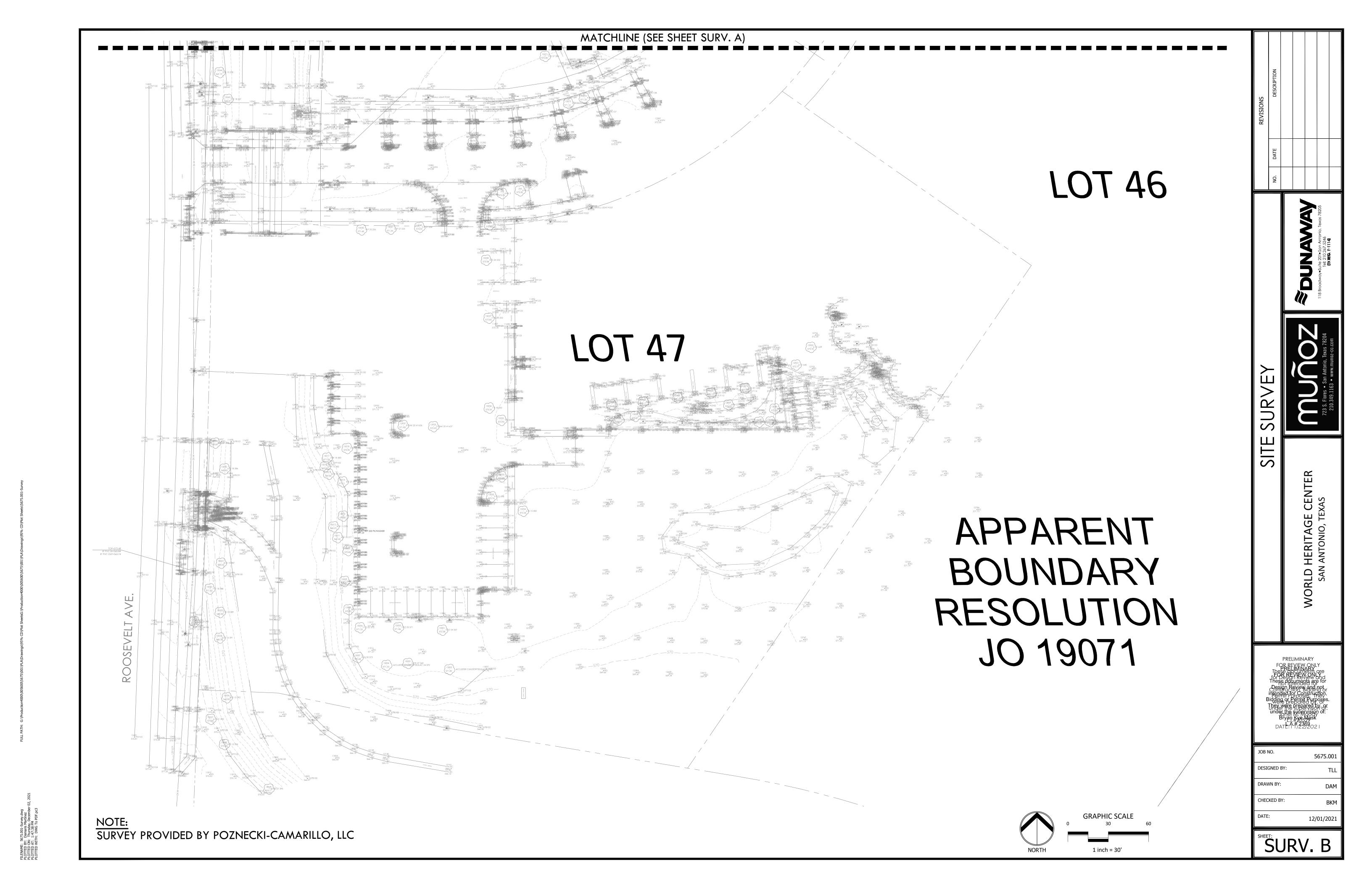
- 1. EROSION CONTROL MEASURES SHALL FOLLOW THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). ANY CHANGES TO THE SWPPP SHALL SUPERSEDE THE EROSION CONTROL PLAN. THE SWPPP IS TO BE KEPT ON-SITE AT ALL TIMES WITH THESE CONSTRUCTION DOCUMENTS FOR COMPLIANCE WITH THE TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM (TPDES) GENERAL PERMIT.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS, INCLUDING THE EPA NPDES PERMIT AND NOTIFICATION.
- 3. SOIL EROSION AND SEDIMENT CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE CITY REGULATIONS.
- 4. PRIOR TO COMMENCING ANY CONSTRUCTION, A CONSTRUCTION ENTRANCE AND PERIMETER SILT FENCE SHALL BE INSTALLED AT THE LOCATION(S) SHOWN.
- 5. THE EROSION CONTROL PLAN WILL INCORPORATE EROSION CONTROL MEASURES AND TECHNIQUES TO PREVENT SEDIMENTATION AND ERODED SOIL FROM LEAVING THE SITE EITHER IN EXISTING STORM DRAIN SYSTEM OR ONTO ADJACENT PRIVATE OR PUBLIC PROPERTY. CONSTRUCT TEMPORARY EROSION CONTROL SYSTEMS AS SHOWN ON THE PLANS TO PROTECT ADJACENT PROPERTIES AND WATER RESOURCES FROM EROSION AND SEDIMENTATION. CONTRACTOR SHALL NOTIFY ENGINEER AT ONCE IF SITE CONDITIONS WARRANT ADDITIONAL EROSION CONTROL MEASURES. CONTRACTOR IS RESPONSIBLE FOR TAKING IMMEDIATE ACTION TO REMEDY EROSION CONTROL WHILE ENGINEER IS PREPARING RESPONSE.
- THE STABILIZED CONSTRUCTION ENTRANCE HAS BEEN SHOWN ARBITRARILY. IT IS THE GENERAL CONTRACTOR'S CHOICE (IN COMPLIANCE WITH ALL MUNICIPAL REGULATIONS) TO DETERMINE THE LOCATION(S) OF PROJECT INGRESS/EGRESS POINTS. HOWEVER ALL ENTRANCES AT ALL TIMES SHALL BE PREPARED IN ACCORDANCE WITH THE STABILIZED CONSTRUCTION ENTRANCE DETAILS (SEE EROSION CONTROL DETAILS) AND CONTINUOUSLY MAINTAINED UNTIL FINAL PAVING IS ESTABLISHED.
- 7. THE RESPONSIBILITY FOR INSTALLATION, ROUTINE INSPECTION AND MAINTENANCE OF EROSION CONTROL SHOULD BE DEFINED AND ASSIGNED TO APPROPRIATE PERSONS(S) PRIOR TO COMMENCEMENT OF ANY SOIL DISTURBANCE TAKING PLACE. DURING ROUTINE INSPECTIONS, DAMAGED OR INOPERATIVE DEVICES SHALL BE REPLACED IMMEDIATELY.
- 8. IN ORDER TO MINIMIZE EROSION CONTROL PROBLEMS, THE GENERAL CONTRACTOR SHALL COORDINATE WITH EXCAVATOR, LANDSCAPE, AND IRRIGATION CONTRACTOR TO DETERMINE EARLIEST POSSIBLE DATE TO INSTALL GRASSING AS NOTED ON THE LANDSCAPE PLAN.
- 9. THE SPECIFIC PLANT MATERIALS PROPOSED TO PROTECT FILL AND EXCAVATED SLOPES SHALL BE AS INDICATED ON THE LANDSCAPE PLANS. PLANT MATERIALS MUST BE SUITABLE FOR USE UNDER LOCAL CLIMATE AND SOIL CONDITIONS. IN GENERAL, HYDROSEEDING OR SODDING BERMUDA GRASS IS ACCEPTABLE DURING THE SUMMER MONTHS (MAY 1 AUGUST 30). WINTER RYE OR FESCUE GRASS MAY BE PLANTED DURING TIMES OTHER THAN THE SUMMER MONTHS AS A TEMPORARY MEASURE UNTIL SUCH TIME AS THE PERMANENT PLANTING CAN BE MADE.
- 10. TEMPORARY INLET PROTECTION TO BE REMOVED OR ADDED BASED ON EXISTING STORM SEWER REMOVAL AND/OR PROPOSED STORM SEWER CONSTRUCTION. AS INLETS ARE COMPLETED, TEMPORARY SEDIMENT BARRIERS SHALL BE INSTALLED.
- 11. AT THE COMPLETION OF THE PAVING AND FINAL GRADING, THE DISTURBED AREA(S) SHALL BE VEGETATED IN ACCORDANCE WITH THE PLANS.
- 12. IN THE EVENT OF A SILT FENCE FAILURE, THE CONTRACTOR SHALL PROVIDE STREET CLEANING ON ADJACENT STREETS AS NECESSARY TO REMOVE EARTHEN MATERIALS CONVEYED FROM THE CONSTRUCTION AREA.
- 13. THE CONTRACTOR SHALL CONSTRUCT THE WASH-OUT PIT AND CONTAINMENT BASIN IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN. WHEEL WASHING EQUIPMENT SHALL BE USED TO REMOVE EARTHEN MATERIALS FROM WHEELS OF VEHICLES EXITING THE CONSTRUCTION SITE.
- 14. SILT FENCE AND INLET SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL VEGETATION HAS BEEN ESTABLISHED.
- 15. DISTURBED AREAS THAT ARE SEEDED OR SODDED SHALL BE CHECKED PERIODICALLY TO SEE THAT GRASS COVERAGE IS PROPERLY MAINTAINED. DISTURBED AREAS SHALL BE WATERED, FERTILIZED, AND RE-SEEDED OR SODDED, IF NECESSARY.
- 16. ADEQUATE MEASAURES SHALL BE TAKEN TO PREVENT EROSION. IN THE EVENT THAT EROSION OCCURS AS A RESULT OF CONSTRUCTION, THE CONTRACTOR SHALL RESTORE THE ERODED AREA TO ORIGINAL CONDITION PRIOR TO HYDROMULCHING OR SODDING.
- 17. THE CONTRACTOR SHALL STABILIZE THE EARTHEN SLOPE AREAS IN ACCORDANCE WITH THE LANDSCAPE PLAN WITHIN 72 HOURS AFTER FINAL GRADE AND TOPSOIL HAS BEEN ESTABLISHED. STABILIZED SLOPES (CURLEX BLANKET AND 70% COVER OF VEGETATION) ACHIEVING EROSION FREE CONDITIONS MUST BE IN PLACE AND EFFECTIVE BY THE PROJECT "POSSESSION DATE".
- 18. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EROSION CONTROL MEASURES ONCE FINAL GROUND STABILIZATION IS ACHIEVED.

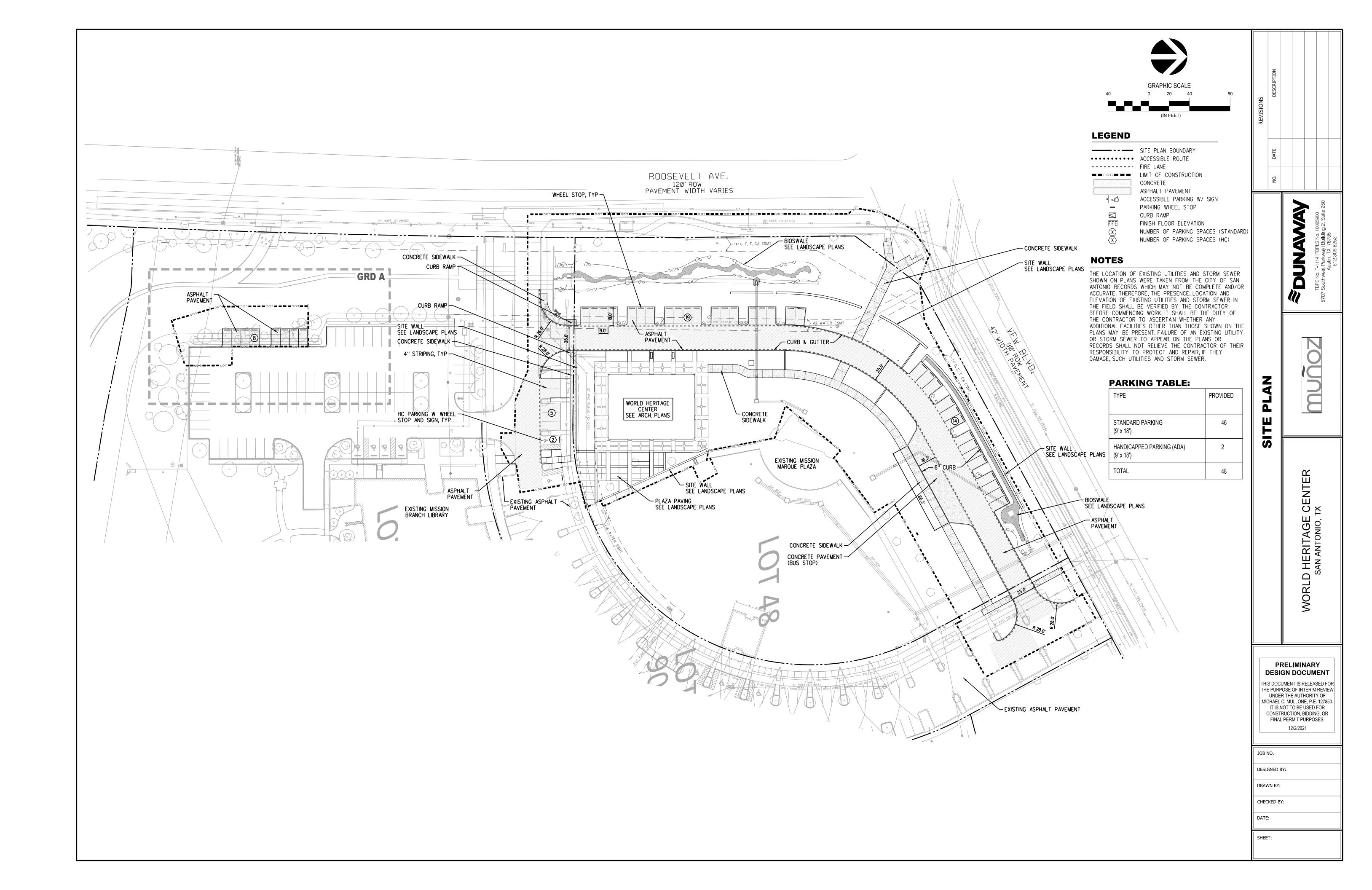
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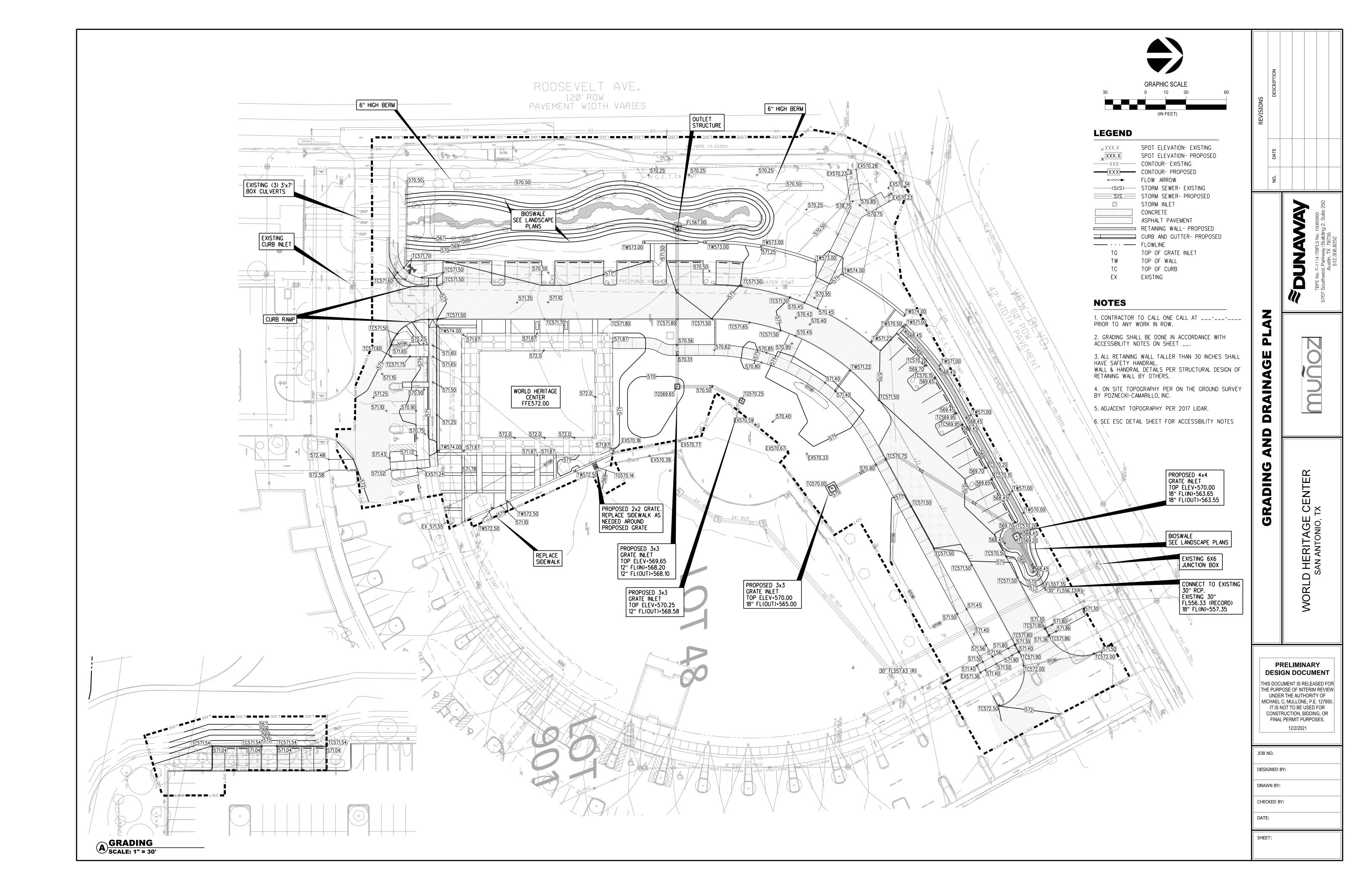
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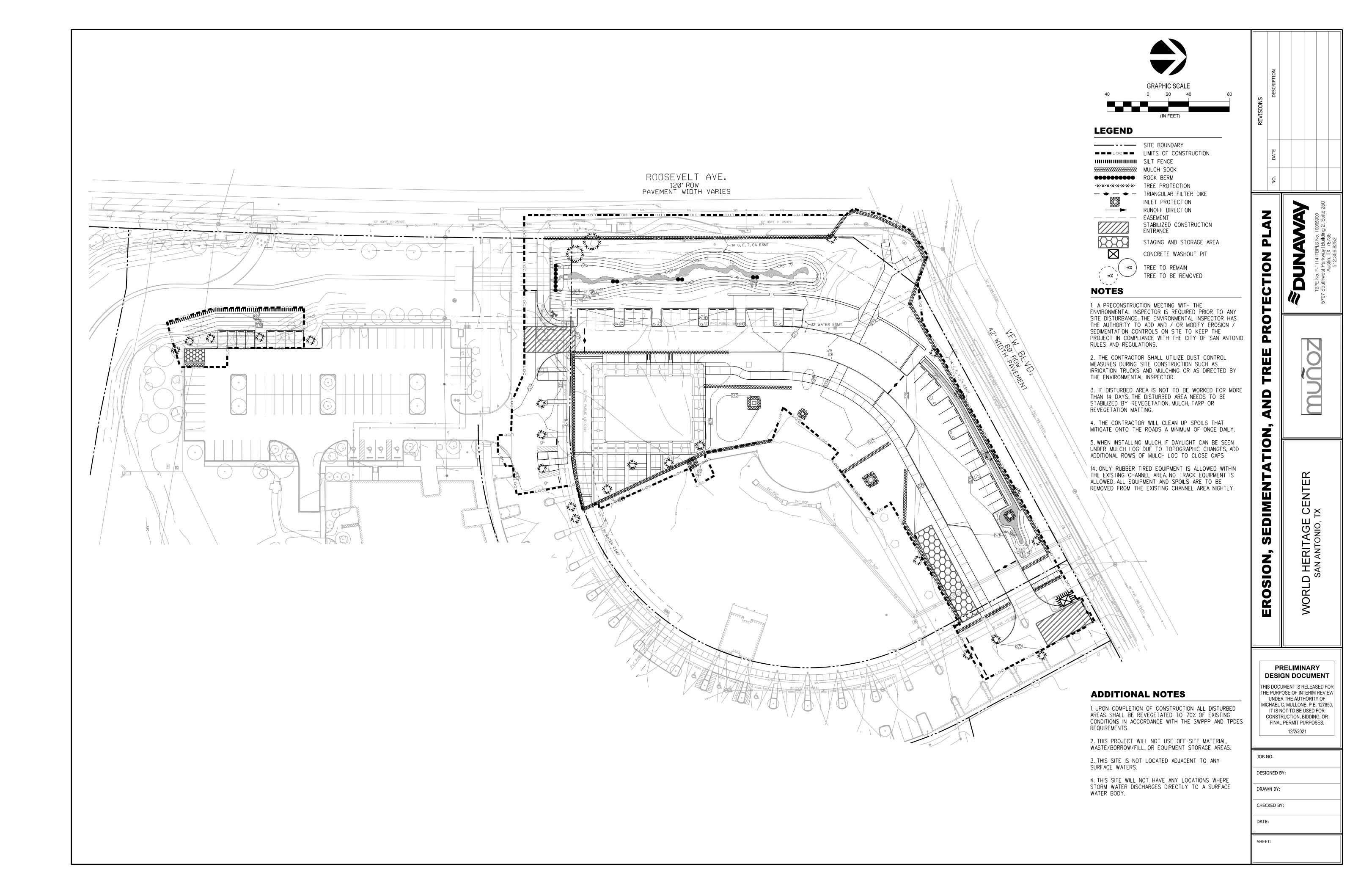


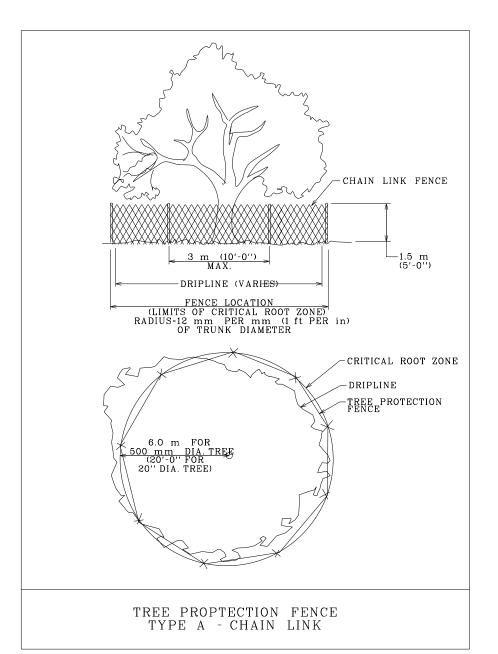
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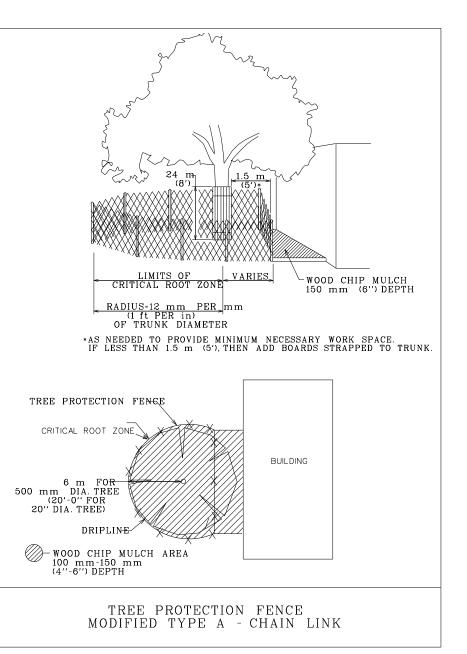


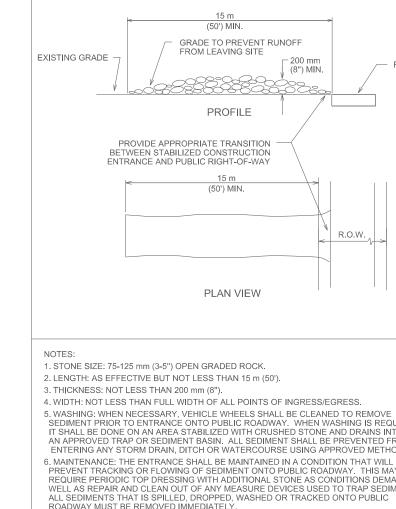












EXCEED 1:50 (2%) SLOPE IN ALL DIRECTIONS.

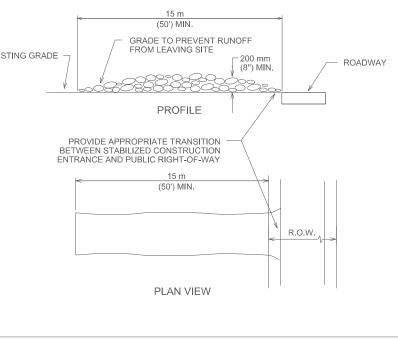
STEEL WIRE -| - |- | - - | - - | -| -STAPLE DETAIL | - - / - - | /- - | - -IMPERMEABLE \_\_\_ METAL STAKES SECTION B-B

NOTE: CAN BE TWO STACKED BALES OR PARTIALLY EXCAVATED TO REACH 3 FT DEPTH

# WASHOUT STRUCTURE WITH STRAW BALES

#### CONSTRUCTION SPECIFICATIONS

- 1. LOCATE WASHOUT STRUCTURE A MINIMUM OF 50 FEET AWAY FROM OPEN CHANNELS, STORM DRAIN INLETS, SENSITIVE AREAS, WETLANDS, BUFFERS AND WATER COURSES AND AWAY FROM CONSTRUCTION TRAFFIC.
- 3. PREPARE SOIL BASE FREE OF ROCKS OR OTHER DEBRIS THAT MAY CAUSE TEARS OR HOLES IN THE LINER. FOR LINER, USE 10 MIL OR THICKER UV RESISTANT, IMPERMEABLE SHEETING, FREE OF HOLES AND TEARS OR OTHER DEFECTS THA OMPROMISE IMPERMEABILITY OF THE MATERIAL.
- 4. PROVIDE A SIGN FOR THE WASHOUT IN CLOSE PROXIMITY TO THE FACILITY.
- 5. KEEP CONCRETE WASHOUT STRUCTURE WATER TIGHT. REPLACE IMPERMEABLE LINER IF DAMAGED (E.G., RIPPED OR PUNCTURED. EMPTY OR REPLACE WASHOUT STRUCTURE THAT IS 75 PERCENT FULL, AND DISPOSE OF ACCUMULATED MATERIAL PROPERLY. DO NOT REUSE PLASTIC LINER. WET-VACUUM STORED LIQUIDS THAT HAVE NOT EVAPORATED AND DISPOSE OF IN AN APPROVED MANNER, PRIOR TO FORECASTED RAINSTORMS, REMOVE LIQUIDS OR COVER STRUCTURE TO PREVENT OVERFLOWS. REMOVE HARDENED SOLIDS, WHOLE OR BROKEN UP, FOR DISPOSAL OR RECYCLING. MAINTAIN RUNOFF DIVERSION AROUND EXCAVATED WASHOUT STRUCTURE UNTIL STRUCTURE IS REMOVED.



5. WASHING: WHEN NECESSARY, VEHICLE WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC ROADWAY. WHEN WASHING IS REQUIRED IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE AND DRAINS INTO AN APPROVED TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS. 6. MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AS WELL AS REPAIR AND CLEAN OUT OF ANY MEASURE DEVICES USED TO TRAP SEDIMENT. ALL SEDIMENTS THAT IS SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY.

7. DRAINAGE: ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

STABILIZED CONSTRUCTION ENTRANCE

1. STEEL OR WOOD POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 300 mm (12 INCHES). IF WOOD POSTS CANNOT ACHIEVE 300 mm (12 inches) DEPTH, USE STEEL POSTS. 2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. 3. THE TRENCH MUST BE A MINIMUM OF 150 mm (6 inches) DEEP AND 150 mm (6 inches) WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED

STEEL OR WOOD FENCE POSTS MAX. 2.4 m (8') SPACING

BACKING SUPPORT FOI FABRIC (12.5 GA. WIRE)

TRENCH CROSS SECTION

SILT FENCE FABRIC-

STANDARD SYMBOL FOR SILT FENCE (SF

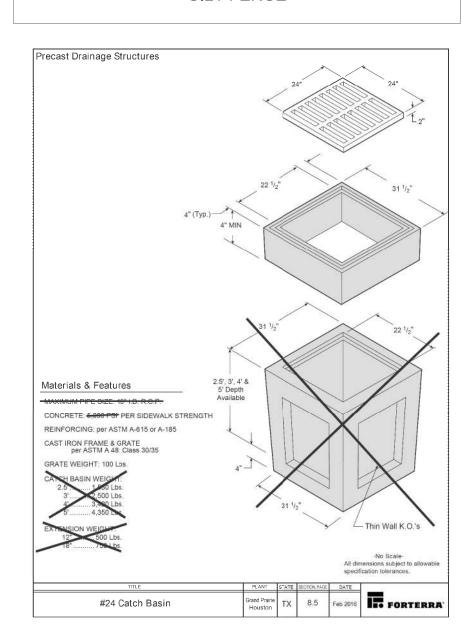
FLOW

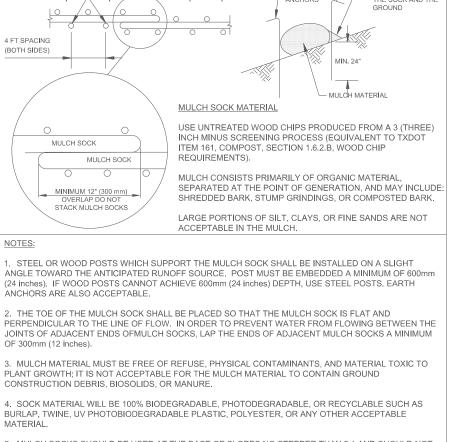
FABRIC TOE-IN

4 SILT FENCE FABRIC SHOULD BE SECURELY FASTENED TO EACH STEEL OR WOOD SUPPORT POST OR TO WOVEN WIRE , WHICH IS IN TURN ATTACHED TO THE STEEL OR WOOD FENCE POST. 5 INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR

6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE. 7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 150 mm (6 inches). THE SILT SHALL BE DISPOSED OF ON AN APPROVED SITE AND IN SUCH A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.

#### SILT FENCE

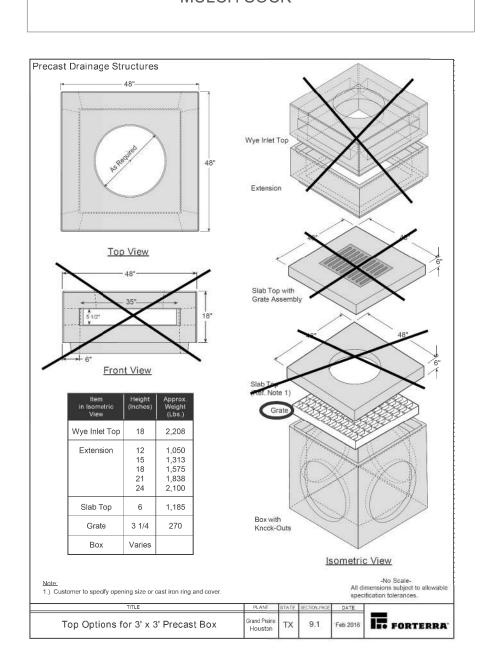


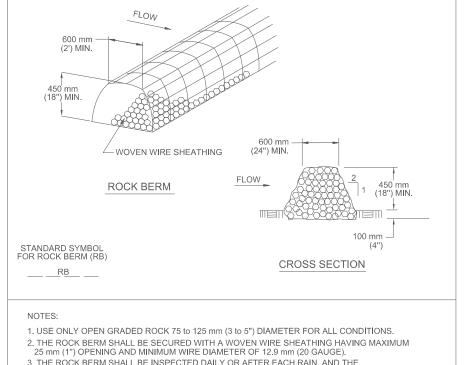


5. MULCH SOCKS SHOULD BE USED AT THE BASE OF SLOPES NO STEEPER THAN 2:1 AND SHOULD NOT EXCEED THE MAXIMUM SPACING CRITERIA FOR A GIVEN SLOPE CATEGORY.

6. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6 inches. THE SILT SHALL BE DISPOSED OF ON AN APPROVED SITE AND IN SUCH A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.

## MULCH SOCK





3. THE ROCK BERM SHALL BE INSPECTED DAILY OR AFTER EACH RAIN, AND THE STONE AND/OR FABRIC CORE-WOVEN SHEATHING SHALL BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED, DUE TO SEDIMENT ACCUMULATION 4. IF SEDIMENT REACHES A DEPTH EQUAL TO ONE-THIRD THE HEIGHT OF THE BERM OR 150 mm (6"), WHICHEVER IS LESS, THE SEDIMENT SHALL BE REMOVED AND DISPOSED OF ON AN APPROVED SITE AND IN A MANNER THAT WILL NOT CREATE A SEDIMENTION 5. WHEN THE SITE IS COMPLETELY STABILIZED, THE BERM AND ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.

#### **ROCK BERM**

#### **ACCESSIBILITY SITE NOTES**

SITE GRADING SHALL COMPLY WITH THE TEXAS ACCESSIBILITY STANDARDS EXISTING AT THE TIME OF PLAN APPROVAL. GRADING SHOWN ON THE PLANS IS INTENDED TO COMPLY WITH SUCH STANDARDS AND SHOULD THE CONTRACTOR DETERMINE THAT COMPLIANCE WITH THE STANDARDS IS NOT CONSISTENT WITH THE SITE PLAN OR ELEVATIONS, HE/SHE SHALL NOTIFY THE ENGINEER IMMEDIATELY FOR A REMEDY.

#### ACCESSIBLE ROUTES (SIDEWALKS, PATHS, ETC)

1. THE MAXIMUM SLOPE OF A RAMP IN NEW CONSTRUCTION IS 1:12. THE MAXIMUM RISE FOR ANY RAMP RUN IS 30 IN. THE MAXIMUM HORIZONTAL PROJECTION IS 30 FEET FOR A RAMP WITH A SLOPE BETWEEN 1:12 AND 1:15, AND 40 FEET FOR A RAMP WITH A SLOPE BETWEEN 1:16 AND 1:20.

#### 2. CROSS SLOPE SHALL NOT EXCEED 1:50 (2%).

3. GROUND SURFACES SHALL BE RELATIVELY FIRM, STABLE AND SMOOTH. GRANITE PATHS WHERE SHOWN ON THE PLANS SHALL BE SUFFICIENTLY COMPACTED.

4. CHANGES IN LEVEL SHALL NOT EXCEED 1/2 ". 1/2 " CHANGE IN LEVEL MUST HAVE A BEVELED EDGE OF 1:2. 1/4 " CHANGE IN LEVEL OR LESS DOES NOT HAVE TO PROVIDE A BEVELED EDGE.

5. MANEUVERING CLEARANCE (60") AT ACCESSIBLE ENTRANCES SHALL NOT EXCEED 1:50 (2% SLOPE).

6. A 60" X 60" PASSING SPACE SHALL BE PROVIDED EVERY 200' ALONG AN ACCESSIBLE ROUTE. PARKING

1. SLOPE IN ACCESSIBLE PARKING AREAS (PARKING SPACE AND ACCESS AISLE) SHALL NOT

STANDARDS ACCESSIBLE SPACES AND 8' FOR VAN ACCESSIBLE SPACES).

CANNON BE OBSCURED BY A VEHICLE PARKED IN THE SPACE.

2. EACH ACCESSIBLE PARKING SPACE SHALL PROVIDE AN ADJACENT ACCESS AISLE (5' FOR

3. EVERY ACCESSIBLE PARKING SPACE MUST BE IDENTIFIED BY A SIGN, CENTERED AT THE HEAD OF THE PARKING SPACE. THE SIGN MUST INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND STATE "RESERVED", OR OTHER EQUIVALENT LANGUAGE. CHARACTERS AND SYMBOLS ON SUCH SIGNS MST BE LOCATED 60" MINIMUM ABOVE THE GROUND SO THAT THEY

4. WHERE THE ACCESSIBLE ROUTE PASSES IN FRONT OF VEHICLES, WHEEL STOPS SHALL BE PROVIDED TO PREVENT VEHICLES FROM PULLING UP AND BLOCKING THE ACCESSIBLE ROUTE. ENOUGH SPACE SHALL BE ALLOWED TO MAINTAIN A MINIMUM OF 36" WIDE ACCESSIBLE ROUTE.

#### CURB RAMPS

1. SLOPE SHALL NOT EXCEED 1:12 (8.3%). FLARED SIDES SHALL NOT EXCEED 1:10. CROSS SLOPE SHALL TO EXCEED 1:50 (2%).

2. FULL WIDTH AND DEPTH OF CURB RAMP SURFACES SHALL PROVIDE A CONTRASTING LIGHT REFLECTIVE VALUE (COLOR) AND TEXTURE. TEXTURE MAY CONSIST OF TRUNCATED DOMES OR 3/4 " WIDE GROOVES, 1/4 " DEEP AND 2" APART. COLOR SHALL CONTRAST AT LEAST 70% FROM ADJACENT SURFACES.

#### 3. MINIMUM RAMP WIDTH SHALL BE 36".

4. WHERE AN ACCESSIBLE ROUTE CROSSES A CURB RAMP, IT SHALL CIRCUMVENT THE CURB RAMP SO AS TO NOT REQUIRE THE USER TO CROSS OVER THE CURB RAMP.

5. CURB RAMPS ARE NOT PERMITTED TO PROJECT INTO THE ACCESSIBLE PARKING ACCESS

6. TRANSITIONS FROM GUTTER OR STREET TO CURB RAMPS SHALL BE FLUSH.

#### OTHER RAMPS

1. MAXIMUM SLOPE SHALL BE 1:12 (8.3%).

2. RAMPS OVER 6' IN LENGTH REQUIRE HANDRAILS ON BOTH SIDES.

3. HANDRAIL HEIGHT SHALL BE 34" - 36" ABOVE RAMP SURFACE.

4. HANDRAIL DIAMETER - 1.25" TO 1.5".

5. EDGE PROTECTION IS REQUIRED WHERE DROP OFFS OCCUR.

6. 12" MINIMUM HANDRAIL EXTENSIONS ARE REQUIRED AT LANDINGS, EXCEPT WHERE HANDRAILS ARE CONTINUOUS. HANDRAIL EXTENSIONS SHALL EXTEND IN THE SAME DIRECTION AS THE RAMP.

7. MAXIMUM RUN BETWEEN LANDINGS SHALL BE 30'.

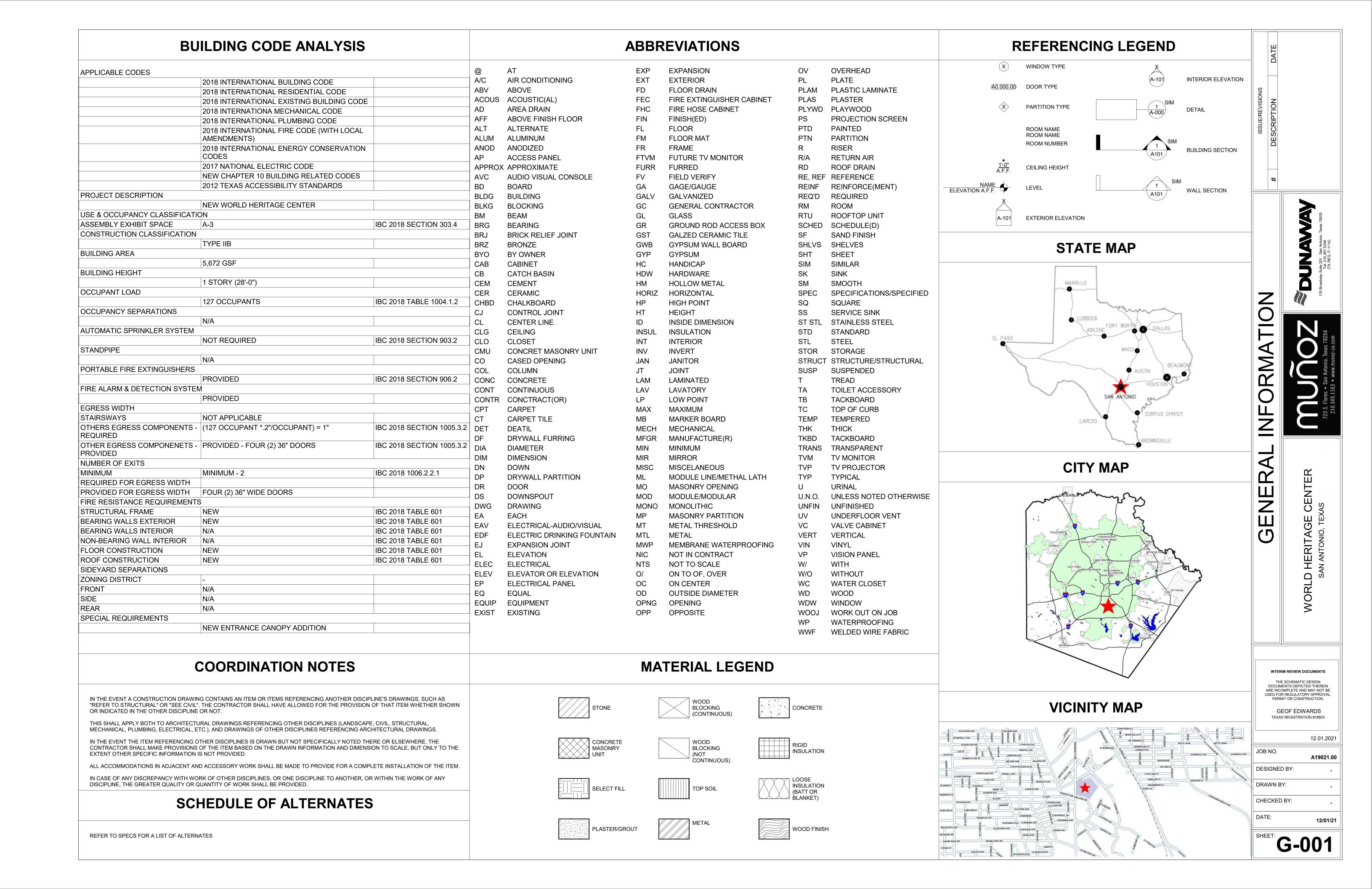
8. 60" LEVEL (2% MAX. SLOPE) LANDINGS REQUIRED AT TOP AND BOTTOM OF EACH RUN. A 60" X 60" LANDING REQUIRED WHERE A RAMP CHANGES DIRECTION.

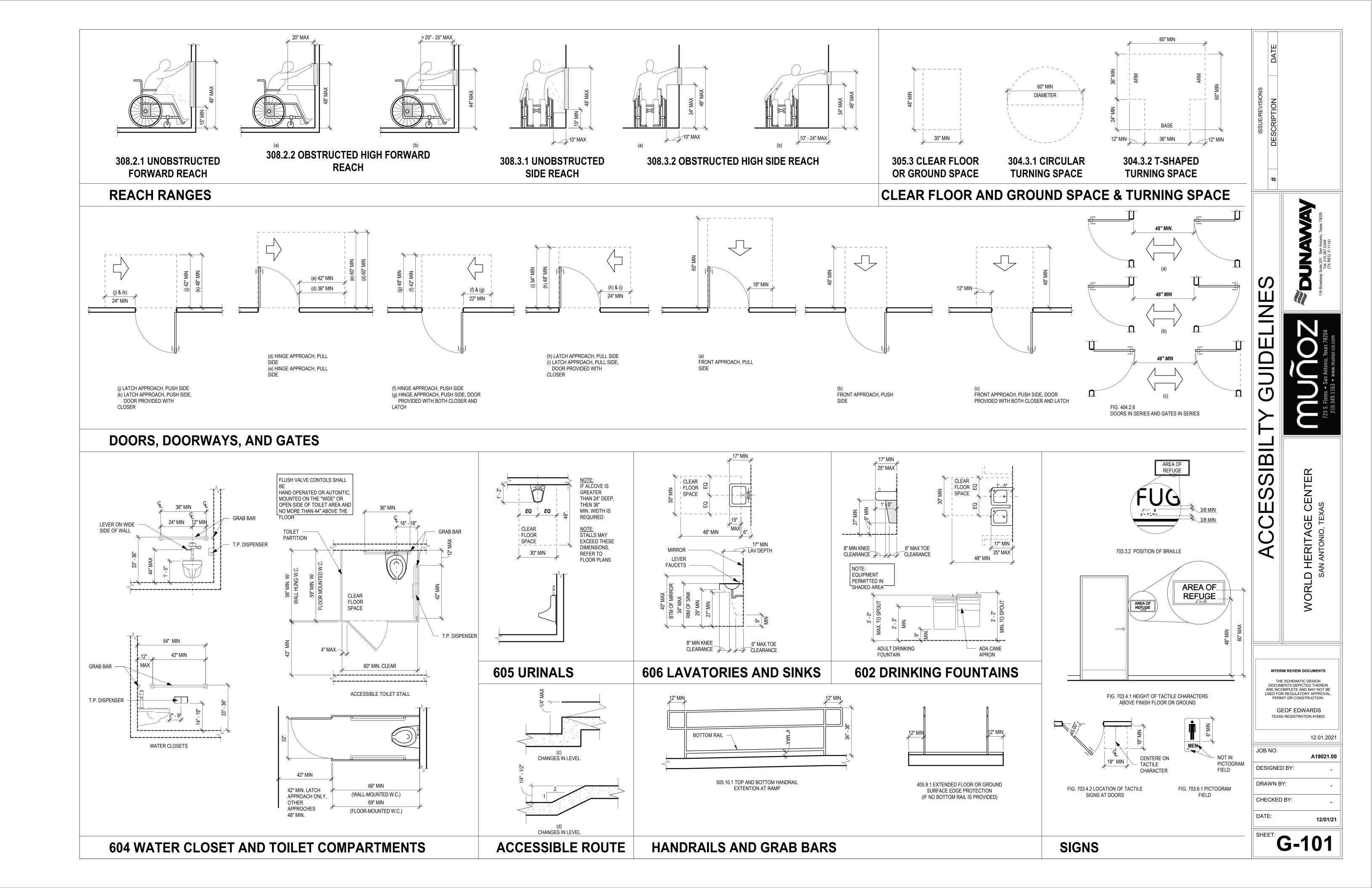
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#### PRELIMINARY **DESIGN DOCUMENT**

THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW UNDER THE AUTHORITY OF MICHAEL C. MULLONE, P.E. 127850. IT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, OR FINAL PERMIT PURPOSES. 12/2/2021

JOB NO.
DESIGNED BY:
DRAWN BY:
CHECKED BY:
DATE:





609.2.1 CIRCULAR CROSS SECTION

609.8 STRUCTURAL STRENGTH

307.2 - OBJECTS WITH LEADING EDGES MORE THAN 27" AND NOT MORE THAN 80" ABOVE THE FINISH FLOOR OR GROUND HALL PROTRUDE 4" MAXIMUM HORIZONTALLY INTO THE CIRCULATION PATH

307.3 - FREE STANDING OBJECTS MOUNTED ON POSTS OR PYLONS SHALL OVERHANG CIRCULATION PATHS 12" MAXIMUM WHEN LOCATED 27" MINIMUM AND 80" MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. WHERE A SIGN OR OTHER OBSTRUCTION IS MOUNTED BETWEEN POSTS OR PYLONS AND THE CLEAR DISTANCE BETWEEN THE POSTS OR PYLONS IS GREATER THAN 12", THE LOWEST EDGE OF SUCH SIGN OR OBSTRUCTION SHALL BE 27" MAXIMUM OR 80" MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

FIG. 703.7.2.1 INTERNATIONAL SYMBOL OF ACCESSIBILITY

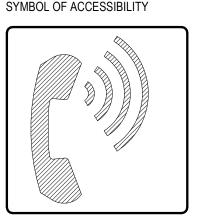


FIG. 703.7.2.3 VOLUME CONTROL TELEPHONE

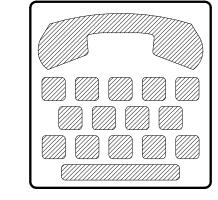


FIG. 703.7.2.2 INTERNATIONAL SYMBOL OF TTY

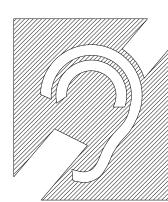


FIG. 703.7.2.4 INTERNATIONAL SYMBOL OF ACCESS FOR HEARING LOSS

# HANDRAILS AND GRAB BARS

NO SHARP

BLOCKING AS **NECESSARY** 

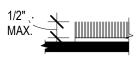
**EDGES** 

#### CHAPTER 3: BUILDING BLOCKS

**505.5 HANDRAILS CLEARANCE** 

#### 302 Floor or Ground Surfaces

302.2 Carpet. Carpet or carpet tile shall be securely attached and shall have a firm cushion, pad, or backing or no cushion or pad. Carpet or carpet tile shall have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. Pile height shall be 1/2 inch (13 mm) maximum. Exposed edges of carpet shall be fastened to floor surfaces and shall have trim on the entire length of the exposed exposed edge. Carpet edge trim shall comply with 303.



#### Figure 302.2 Carpet Pile Height

302.3 Openings. Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch (13 mm) diameter except as allowed in 407.4.3, 409.4.3, 410.4, 810.5.3 and 810.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

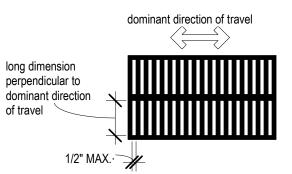


Figure 302.3 Elongated Openings in Floor or Ground Surface

303.2 Vertical. Changes in level of 1/4 inch (6.4 mm) high maximum shall be permitted to be vertical.



Figure 303.2 Vertical Change in Level

303.3 Beveled. Changes in level between 1/4 inch (6.4 mm) high minimum and 1/2 inch (13 mm) high maximum shall be beveled with a slope not steeper than 1:2.



#### Figure 303.3 Beveled Change in Level

304 Turning Space 304.3.1 Circular Space. The turning space shall be a space of 60 inches (1525 mm) diameter minimum. The space shall be permitted to include knee and toe clearance complying with 306.

304.3.2 T-Shaped Space. The turning space shall be a T-shaped space within a 60 inch (1525 mm) square minimum with arms and base 36 inches (915 mm) wide minimum. Each arm of the T shall be clear of obstructions 12 inches (305 mm) minimum in each direction and the base shall be clear of obstructions 24 inches (610 mm) minimum. The space shall be permitted to include knee and toe clearance complying with 306 only at the end of either the base or one arm.

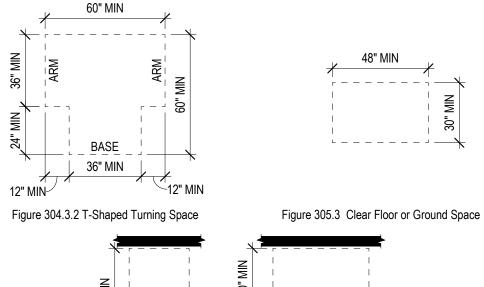
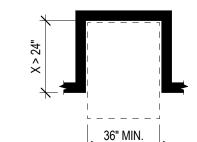


Figure 305.5 Position of Clear Floor or Ground Space

48" MIN

305.7.1 Forward Approach. Alcoves shall be 36 inches (915 mm)wide minimum where the depth exceeds 24 307 Protruding Objects inches (610 mm).



#### Figure 305.7.1 Maneuvering Clearnce in an Alcove, Forward Approach

305.7.2 Parallel Approach. Alcoves shall be 60 inches (1525 mm) wide minimum where the depth exceeds 15 inches (380 mm).

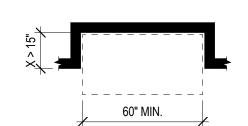


Figure 305.7.2 Maneuvering Clearnce in an Alcove, Parallel Approach

#### 306 Knee and Toe Clearance

THE BOTTOMS OF HANDRAIL GRIPPING SURFACES SHALL NOT BE

MORE THAN 20% OF

THEIR

**505.6 HORIZONTAL** 

PROJECTIONS BELOW GRIPPING

**SURFACE** 

LENGTH

#### 306.2 Toe Clearance.

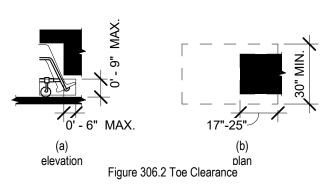
306.2.1 General. Space under an element between the finish floor or ground and 9 inches (230 mm) above the finish floor or ground shall be considered toe clearance and shall comply with 306.2.

306.2.2 Maximum Depth. Toe clearance shall extend 25 inches (635 mm) maximum under an element.

306.2.3 Minimum Required Depth. Where toe clearance is required at an element as part of a clear floor space, the toe clearance shall extend 17 inches (430 mm) minimum under the element.

306.2.4 Additional Clearance. Space extending greater than 6 inches (150 mm) beyond the available knee clearance at 9 inches (230 mm) above the finish floor or ground shall not be considered toe clearance.

306.2.5 Width. Toe clearance shall be 30 inches (760 mm) wide minimum.



#### 306.3 Knee Clearance.

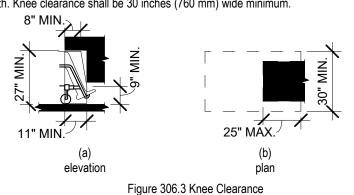
306.3.1 General. Space under an element between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground shall be considered knee clearance and shall comply with 306.3.

306.3.2 Maximum Depth. Knee clearance shall extend 25 inches (635 mm) maximum under an element at 9

inches (230 mm) above the finish floor or ground. 306.3.3 Minimum Required Depth. Where knee clearance is required under an element as part of a clear floor space, the knee clearance shall be 11 inches (280 mm) deep minimum at 9 inches (230 mm) above the finish floor or ground, and 8 inches (205 mm) deep minimum at 27 inches (685 mm) above the finish floor or

ground. 306.3.4 Clearance Reduction. Between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground, the knee clearance shall be permitted to reduce at a rate of 1 inch (25 mm) in depth for each 6 inches (150 mm) in height.

306.3.5 Width. Knee clearance shall be 30 inches (760 mm) wide minimum.



307.2 Protrusion Limits. Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall protrude 4 inches (100 mm) maximum horizontally

EXCEPTION: Handrails shall be permitted to protrude 4 1/2 inches (115 mm) maximum.

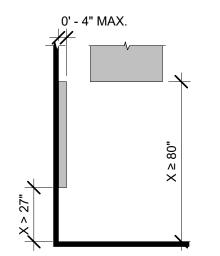
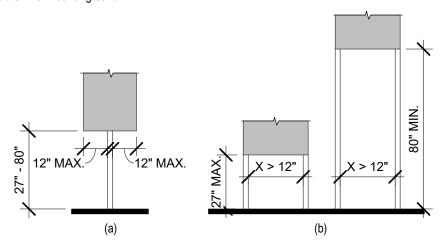


Figure 307.2 Limits of Protruding Objects

307.3 Post-Mounted Objects. Free-standing objects mounted on posts or pylons shall overhang circulation paths 12 inches (305 mm) maximum when located 27 inches (685 mm) minimum and 80 inches (2030 mm) maximum above the finish floor or ground. Where a sign or other obstruction is mounted between posts or pylons and the clear distance between the posts or pylons is greater than 12 inches (305 mm), the lowest edge of such sign or obstruction shall be 27 inches (685 mm) maximum or 80 inches (2030 mm) minimum



307.4 Vertical Clearance. Vertical clearance shall be 80 inches (2030 mm) high minimum. Guardrails or other barriers shall be provided where the vertical clearance is less than 80 inches (2030 mm) high. The leading edge of such guardrail or barrier shall be located 27 inches (685 mm) maximum above the finish floor or

Figure 307.3 Post-Mounted Protruding Objects

EXCEPTION: Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the finish floor or ground. Figure 307.4 Vertical Clearance

#### 308 Reach Ranges

Children's Reach Ranges		
Forward or Side Reach	High (maximum)	Low (minimum)
Ages 3 and 4	36 in.	20 in.
Ages 5 through 8	_40 in	18 in
Ages 9 through 12	44 in	16 in

#### 308.2 Forward Reach.

**307 PROTRUDING OBJECTS** 

308.2.1 Unobstructed. Where a forward reach is unobstructed, the high forward reach shall be 48 inches (1220 mm) maximum and the low forward reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

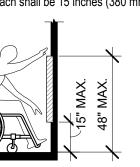
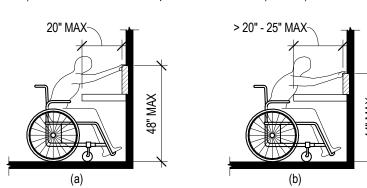


Figure 308.2.2 Obstructed High Forward Reach

308.2.2 Obstructed High Reach. Where a high forward reach is over an obstruction, the clear floor space shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48 inches (1220 mm) maximum where the reach depth is 20 inches (510 mm) maximum. Where the reach depth exceeds 20 inches (510 mm), the high forward reach shall be 44 inches (1120 mm) maximum and the reach depth shall be 25 inches (635 mm) maximum.



#### Figure 308.2.2 Obstructed High Forward Reach 308.3 Side Reach.

308.3.1 Unobstructed. Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48 inches (1220 mm) maximum and the low side reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

1. An obstruction shall be permitted between the lar floor orground space and the element where the depth of the obstruction is 10" maximum.

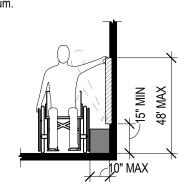


Figure 308.3.1 Unobstructed Side Reach

308.3.2 Obstructed High Reach. Where a clear floor or ground space allows a parallel approach to an element and the high side reach is over an obstruction, the height of the obstruction shall be 34 inches (865 mm) maximum and the depth of the obstruction shall be 24 inches (610 mm) maximum. The high side reach shall be 48 inches (1220 mm) maximum for a reach depth of 10 inches (255 mm) maximum. Where the reach depth exceeds 10 inches (255 mm), the high side reach shall be 46 inches (1170 mm) maximum for a reach depth of 24 inches (610 mm) maximum.

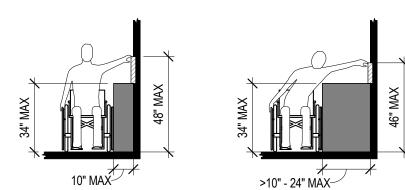


Figure 308.3.2 Obstructed High Side Reach

#### 309 Operable Parts

#### 309.2 Clear Floor Space. A clear floor or ground space complying with 305 shall be provided.

309.3 Height. Operable parts shall be placed within one or more of the reach ranges specified in 308. 309.4 Operation. Operable parts shall be operable with one hand and shall not require tight grasping,

pinching, or twisting of the wrist. The force required to activate operable parts shall be 5 pounds (22.2 N)

**SYMBOLS** 

402.2 Components. Accessible routes shall consist of one or more of the following components: walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps excluding the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

Advisory 402.2 Components. Walking surfaces must have running slopes not steeper than 1:20, see 403.3. Other components of accessible routes, such as ramps (405) and curb ramps (406), are permitted to be more steeply sloped.

#### 403 Walking Surfaces

403.1 General. Walking surfaces that are a part of an accessible route shall comply with 403.

#### 403.2 Floor or Ground Surface. Floor or ground surfaces shall comply with 302.

CHAPTER 4: ACCESSIBLE ROUTES

403.3 Slope. The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.

#### 403.4 Changes in Level. Changes in level shall comply with 303.

403.5 Clearances. Walking surfaces shall provide clearances complying with 403.5.

EXCEPTION: Within employee work areas, clearances on common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the function of the work

403.5.1 Clear Width. Except as provided in 403.5.2 and 403.5.3, the clear width of walking surfaces shall be 36 inches (915 mm) minimum.

EXCEPTION: The clear width shall be permitted to be reduced to 32 inches (815 mm) minimum for a length of 24 inches (610 mm) maximum provided that reduced width segments are separated by segments that are 48 inches (1220 mm) long minimum and 36 inches (915 mm) wide minimum.

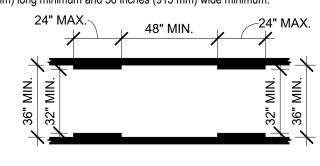


Figure 403.5.1 Clear Width of an Accessible Route

403.5.2 Clear Width at Turn. Where the accessible route makes a 180 degree turn around an element which is less than 48 inches (1220 mm) wide, clear width shall be 42 inches (1065 mm) minimum approaching the turn, 48 inches (1220 mm) minimum at the turn and 42 inches (1065 mm) minimum leaving the turn.

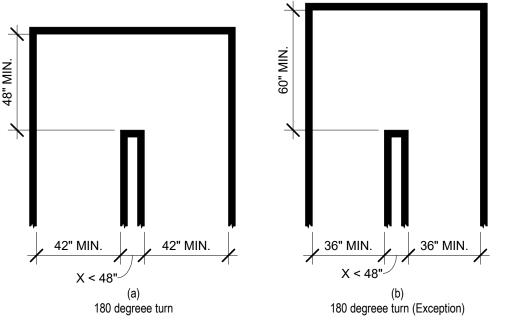


Figure 403.5.2 Clear Width at Turn

# TAS ACCESSIBLE NOTES

REFER TO CIVIL AND LANDSCAPE DRAWINGS FOR ALL TAS REQUIREMENTS BEYOND THE EXTENT OF THE EXTERIOR BUILDING ENVELOPE

INTERIM REVIEW DOCUMENTS THE SCHEMATIC DESIGN DOCUMENTS DEPICTED THEREIN

USED FOR REGULATORY APPROVAL. GEOF EDWARDS TEXAS REGISTRATION #18803

ARE INCOMPLETE AND MAY NOT BE

12.01.2021 JOB NO. A19021.00 DESIGNED BY:

DRAWN BY:

CHECKED BY: DATE:

12/01/21

#### 404 Doors, Doorways, and Gates

404.2.3 Clear Width. Door openings shall provide a clear width of 32 inches (815 mm) minimum. Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees. Openings more than 24 inches (610 mm) deep shall provide a clear opening of 36 404.2.8.2 Spring Hinges. Door and gate spring hinges shall be adjusted so that from the open position of 70 inches (915 mm) minimum. There shall be no projections into the required clear opening width lower than 34 inches (865 mm) above the finish floor or ground. Projections into the clear opening width between 34 inches (865 mm) and 80 inches (2030 mm) above the finish floor or ground shall not exceed 4 inches (100 mm).

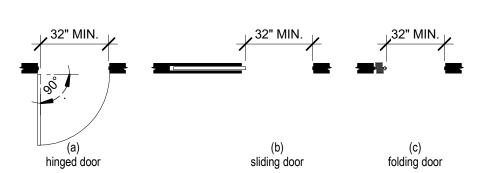
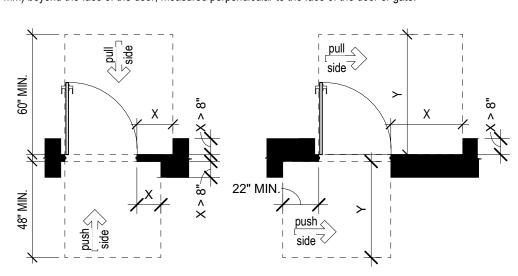


Figure 404.2.3 Clear Width of Doorways

404.2.4 Maneuvering Clearances. Minimum maneuvering clearances at doors and gates shall comply with 404.2.4. Maneuvering clearances shall extend the full width of the doorway and the required latch side or hinge side clearance.

404.2.4.3 Recessed Doors and Gates. Maneuvering clearances for forward approach shall be provided when any obstruction within 18 inches (455 mm) of the latch side of a doorway projects more than 8 inches (205 mm) beyond the face of the door, measured perpendicular to the face of the door or gate.



Side Approach - Swinging Doors Hinge Side

Pull Side Approaches

X = 42" MIN. if Y = 54"

Push Side Approaches

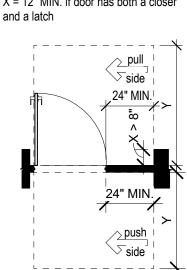
Y = 42" MIN.

X = 36" MIN. if Y = 60" or

Front Approach - Swinging Doors

Pull Side Approaches X = 18" MIN.

Push Side Approaches X = 12" MIN. if door has both a closer



Side Approach - Swinging Doors Latch Side

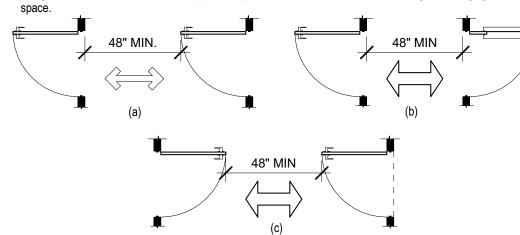
Pull Side Approaches Y = 48"

If door has a closer use 54"

Push Side Approaches

Y = 42" MIN. If door has both a closer use 48"

404.2.6 Doors in Series and Gates in Series. The distance between two hinged or pivoted doors in series and gates in series shall be 48 inches (1220 mm) minimum plus the width of doors or gates swinging into the



ALL FIGURES SHOWN ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY AND MAY OR MAY NOT BE APPLICABLE TO THIS PROJECT. THEY ARE INTENDED TO SERVE AS AN ABBREVIATED GUIDELINE FOR THE OWNER, BUILDER AND THEIR SUBCONTRACTOR'S USE. PLEASE VERIFY ALL CURRENT TEXAS ACCESSIBILITY STANDARDS WITH THE RESPECTIVE AGENCY AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF ANY WORK.

THESE FIGURES APPLY TO ALL PUBLIC BUILDINGS AND PUBLIC AREAS THRU-OUT THE PROJECT SITE WHICH ARE INTENDED TO BE USED AND/OR ARE ACCESSIBLE TO THE BUILDINGS EMPLOYEES, ITS STAFF AND/OR BY THE GENERAL PUBLIC.

404.2.7 Door and Gate Hardware. Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with 309.4. Operable parts of such hardware shall be 34 inches (865 mm) minimum and 48 inches (1220 mm) maximum above the finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.

404.2.8.1 Door Closers and Gate Closers. Door closers and gate closers shall be adjusted so that from an open position of 90 degrees, the time required to move the door to a position of 12 degrees from the latch is

degrees, the door or gate shall move to the closed position in 1.5 seconds minimum.

404.2.9 Door and Gate Opening Force. Fire doors shall have a minimum opening force allowable by the appropriate administrative authority. The force for pushing or pulling open a door or gate other than fire doors

1. Interior hinged doors and gates: 5 pounds (22.2 N) maximum.

2. Sliding or folding doors: 5 pounds (22.2 N) maximum.

These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door or gate in a closed position.

404.2.10 Door and Gate Surfaces. Swinging door and gate surfaces within 10 inches (255 mm) of the finish floor or ground measured vertically shall have a smooth surface on the push side extending the full width of the door or gate. Parts creating horizontal or vertical joints in these surfaces shall be within 1/16 inch (1.6 mm) of the same plane as the other. Cavities created by added kick plates shall be capped.

404.2.11 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor. 404.3 Automatic and Power-Assisted Doors and Gates. Automatic doors and automatic gates shall comply with

404.3. Full-powered automatic doors shall comply with ANSI/BHMA A156.10 (incorporated by reference, see "Referenced Standards" in Chapter 1). Low-energy and power-assisted doors shall comply with ANSI/BHMA A156.19 (1997 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1).

404.3.2 Maneuvering Clearance. Clearances at power-assisted doors and gates shall comply with 404.2.4. Clearances at automatic doors and gates without standby power and serving an accessible means of egress

404.3.7 Revolving Doors, Revolving Gates, and Turnstiles. Revolving doors, revolving gates, and turnstiles shall not be part of an accessible route.

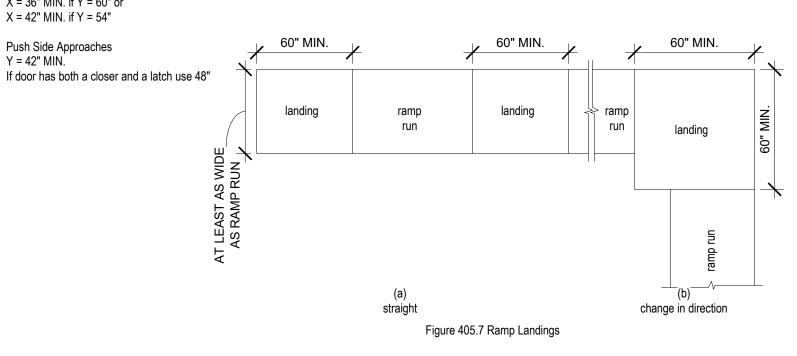
405.2 Slope. Ramp runs shall have a running slope not steeper than 1:12.

405.3 Cross Slope. Cross slope of ramp runs shall not be steeper than 1:48.

405.5 Clear Width. The clear width of a ramp run and, where handrails are provided, the clear width between handrails shall be 36 inches (915 mm) minimum.

405.6 Rise. The rise for any ramp run shall be 30 inches (760 mm) maximum.

405.7 Landings. Ramps shall have landings at the top and the bottom of each ramp run. Landings shall



405.7.1 Slope. Landings shall have slope no steeper than 1:48. Changes in level are not permitted.

405.7.2 Width. The landing clear width shall be at least as wide as the widest ramp run leading to the

405.7.3 Length. The landing clear length shall be 60 inches (1525 mm) long minimum.

405.7.4 Change in Direction. Ramps that change direction between runs at landings shall have a clear landing 60 inches (1525 mm) minimum by 60 inches (1525 mm) minimum.

405.7.5 Doorways. Where doorways are located adjacent to a ramp landing, maneuvering clearances

required by 404.2.4 and 404.3.2 shall be permitted to overlap the required landing 405.8 Handrails. Ramp runs with a rise greater than 6 inches (150 mm) shall have handrails complying with

405.9 Edge Protection. Edge protection complying with 405.9.1 or 405.9.2 shall be provided on each side of

ramp runs and at each side of ramp landings. 405.9.1 Extended Floor or Ground Surface. The floor or ground surface of the ramp run or landing shall

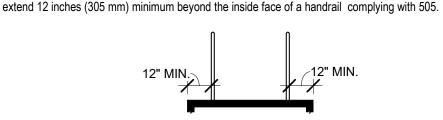


Figure 405.9.1 Extended Floor or Ground Surface Edge Protection

405.9.2 Curb or Barrier. A curb or barrier shall be provided that prevents the passage of a 4 inch (100 mm) diameter sphere, where any portion of the sphere is within 4 inches (100 mm) of the finish floor or ground

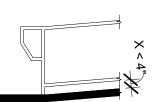


Figure 405.9.2 Curb or Barrier Edge Protection

406.1 General. Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.

406.2 Counter Slope. Counter slopes of adjoining gutters and road surfaces immediately adjacent to the curb ramp shall not be steeper than 1:20. The adjacent surfaces at transitions at curb ramps to walks, gutters, and streets shall be at the same level.

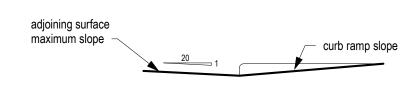
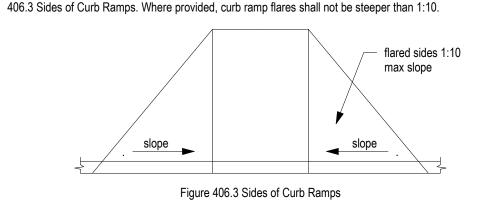
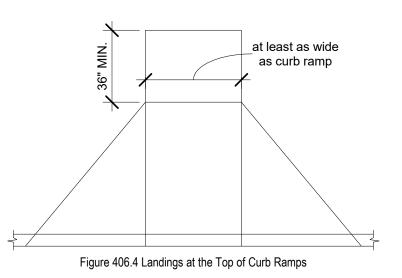


Figure 406.2 Counter Slope of Surfaces Adjacent to Curb Ramps



406.4 Landings. Landings shall be provided at the tops of curb ramps. The landing clear length shall be 36 inches (915 mm) minimum. The landing clear width shall be at least as wide as the curb ramp, excluding flared sides, leading to the landing.



406.5 Location. Curb ramps and the flared sides of curb ramps shall be located so that they do not project into vehicular traffic lanes, parking spaces, or parking access aisles. Curb ramps at marked crossings shall be wholly contained within the markings, excluding any flared sides.

406.6 Diagonal Curb Ramps. Diagonal or corner type curb ramps with returned curbs or other well-defined edges shall have the edges parallel to the direction of pedestrian flow. The bottom of diagonal curb ramps shall have a clear space 48 inches (1220 mm) minimum outside active traffic lanes of the roadway. Diagonal curb ramps provided at marked crossings shall provide the 48 inches (1220 mm) minimum clear space within the markings. Diagonal curb ramps with flared sides shall have a segment of curb 24 inches (610 mm) long minimum located on each side of the curb ramp and within the marked crossing.

406.7 Islands. Raised islands in crossings shall be cut through level with the street or have curb ramps at both sides. Each curb ramp shall have a level area 48 inches (1220 mm) long minimum by 36 inches (915 mm) wide minimum at the top of the curb ramp in the part of the island intersected by the crossings. Each 48 inch (1220 mm) minimum by 36 inch (915 mm) minimum area shall be oriented so that the 48 inch (1220 mm) minimum length is in the direction of the running slope of the curb ramp it serves. The 48 inch (1220 mm) minimum by 36 inch (915 mm) minimum areas and the accessible route shall be permitted to overlap.

407.1 General. Elevators shall comply with 407 and with ASME A17.1 (incorporated by reference, see "Referenced Standards" in Chapter 1). They shall be passenger elevators as classified by ASME A17.1 Elevator operation shall be automatic. EXCEPTION: Existing conditions don't have to comply

407.2.1.2 Size. Call buttons shall be 3/4 inch (19 mm) minimum in the smallest dimension.

407.2.2.1 Visible and Audible Signals. A visible and audible signal shall be provided at each hoistway entrance to indicate which car is answering a call and the car's direction of travel. Where in-car signals are provided, they shall be visible from the floor area adjacent to the hall call buttons.

407.2.2.2 Visible Signals. Visible signal fixtures shall be centered at 72 inches (1830 mm) minimum above the finish floor or ground. The visible signal elements shall be 2 1/2 inches (64 mm) minimum measured along the vertical centerline of the element. Signals shall be visible from the floor area adjacent to the hall call

407.2.3.1 Floor Designation. Floor designations complying with 703.2 and 703.4.1 shall be provided on both jambs of elevator hoistway entrances. Floor designations shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high minimum. A tactile star shall be provided on both

407.2.3.2 Car Designations. Destination-oriented elevators shall provide tactile car identification complying with 703.2 on both jambs of the hoistway immediately below the floor designation. Car designations shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high minimum.

407.3.3.1 Height. The device shall be activated by sensing an obstruction passing through the opening at 5 inches (125 mm) nominal and 29 inches (735 mm) nominal above the finish floor.

407.3.3.3 Duration. Door reopening devices shall remain effective for 20 seconds minimum.

407.3.4 Door and Signal Timing. The minimum acceptable time from notification that a car is answering a call or notification of the car assigned at the means for the entry of destination information until the doors of that car start to close shall be calculated from the following equation:

T = D/(1.5 ft/s) or T = D/(455 mm/s) = 5 seconds minimum where T equals the total time in seconds and Dequals the distance (in feet or millimeters) from the point in the lobby or corridor 60 inches (1525 mm) directly in front of the farthest call button controlling that car to the centerline of its hoistway door.

407.3.5 Door Delay. Elevator doors shall remain fully open in response to a car call for 3 seconds

407.3.6 Width. The width of elevator doors shall comply with Table 407.4.1.

407.4 Elevator Car Requirements. Elevator cars shall comply with 407.4.

407.4.1 Car Dimensions. Inside dimensions of elevator cars and clear width of elevator doors shall comply with Table 407.4.1.

hoistway landing shall be 1 1/4 inch (32 mm) maximum. 407.4.4 Leveling. Each car shall be equipped with a self-leveling feature that will automatically bring and

407.4.3 Platform to Hoistway Clearance. The clearance between the car platform sill and the edge of any

maintain the car at floor landings within a tolerance of 1/2 inch (13 mm) under rated loading to zero loading conditions.

407.4.5 Illumination. The level of illumination at the car controls, platform, car threshold and car landing sill shall be 5 foot candles (54 lux) minimum.

407.4.6 Elevator Car Controls. Where provided, elevator car controls shall comply with 407.4.6 and 309.4.

407.4.6.1 Location. Controls shall be located within one of the reach ranges specified in 308.

407.4.6.2 Buttons. Car control buttons with floor designations shall comply with 407.4.6.2 and shall be raised or flush.

407.4.6.2.1 Size. Buttons shall be 3/4 inch (19 mm) minimum in their smallest dimension.

407.4.6.4.1 Height. Emergency control buttons shall have their centerlines 35 inches (890 mm) minimum above the

407.4.7.1.1 Type. Control buttons shall be identified by tactile characters complying with 703.2.

407.4.7.1.3 Symbols. The control button for the emergency stop, alarm, door open, door close, main entry floor, and phone, shall be identified with tactile symbols as shown in Table 407.4.7.1.3.

407.4.8.1.1 Size. Characters shall be 1/2 inch (13 mm) high minimum.

407.4.8.2.2 Signal Level. The verbal annunciator shall be 10 dB minimum above ambient, but shall not exceed 80 dB, Risers shall be 4 inches (100 mm) high minimum and 7 inches (180 mm) high maximum. Treads shall be 11 measured at the annunciator

407.4.8.2.3 Frequency. The verbal annunciator shall have a frequency of 300 Hz minimum to 3000 Hz maximum.

## CHAPTER 5: GENERAL SITE & BUILDING **ELEMENTS**

501 General

501.1 Scope. The provisions of Chapter 5 shall apply where required by Chapter 2 or where referenced by a requirement in this document.

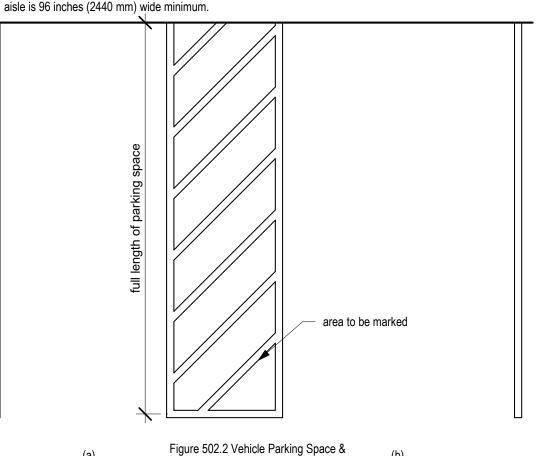
502 Parking Spaces

502.1 General. Car and van parking spaces shall comply with 502. Where parking spaces are marked with lines, width measurements of parking spaces and access aisles shall be made from the centerline of the markings.

EXCEPTION: Where parking spaces or access aisles are not adjacent to another parking space or access aisle, measurements shall be permitted to include the full width of the line defining the parking space or access aisle.

502.2 Vehicle Spaces. Car parking spaces shall be 96 inches (2440 mm) wide minimum and van parking spaces shall be 132 inches (3350 mm) wide minimum, shall be marked to define the width, and shall have an adjacent access aisle complying with 502.3.

EXCEPTION: Van parking spaces shall be permitted to be 96 inches (2440 mm) wide minimum where the access



502.3 Access Aisle. Access aisles serving parking spaces shall comply with 502.3. Access aisles shall adjoin an accessible route. Two parking spaces shall be permitted to share a common access aisle.

502.3 Parking Space Access Aisle

502.3.1 Width. Access aisles serving car and van parking spaces shall be 60 inches (1525 mm) wide minimum.

502.3.2 Length. Access aisles shall extend the full length of the parking spaces they serve.

502.3.3 Marking. Access aisles shall be marked so as to discourage parking in them.

502.3.4 Location. Access aisles shall not overlap the vehicular way. Access aisles shall be permitted to be placed on either side of the parking space except for angled van parking spaces which shall have access aisles located on the passenger side of the parking spaces.

502.4 Floor or Ground Surfaces. Parking spaces and access aisles serving them shall comply with 302. Access aisles shall be at the same level as the parking spaces they serve. Changes in level are not permitted. EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

502.5 Vertical Clearance. Parking spaces for vans and access aisles and vehicular routes serving them shall provide a landing for 12 inches (305 mm) minimum beginning directly above the first riser nosing. Extensions shall vertical clearance of 98 inches (2490 mm) minimum.

502.6 Identification. Parking space identification signs shall include the International Symbol of Accessibility complying with 703.7.2.1. Signs identifying van parking spaces shall contain the designation "van accessible." Signs shall be 60 inches (1525 mm) minimum above the finish floor or ground surface measured to the bottom of the sign.

502.7 Relationship to Accessible Routes. Parking spaces and access aisles shall be designed so that cars and vans, when parked, cannot obstruct the required clear width of adjacent accessible routes.

503.3 Passenger Loading Zones

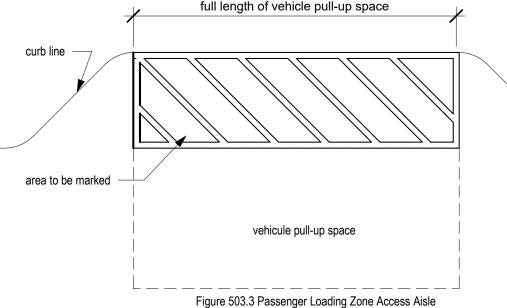
503.2 Vehicle Pull-Up Space. Passenger loading zones shall provide a vehicular pull-up space 96 inches (2440 mm) wide minimum and 20 feet (6100 mm) long minimum.

503.3 Access Aisle. Passenger loading zones shall provide access aisles complying with 503 adjacent to the vehicle pull-up space. Access aisles shall adjoin an accessible route and shall not overlap the vehicular way.

503.3.1 Width. Access aisles serving vehicle pull-up spaces shall be 60 inches (1525 mm) wide minimum.

503.3.2 Length. Access aisles shall extend the full length of the vehicle pull-up spaces they serve.

503.3.3 Marking. Access aisles shall be marked so as to discourage parking in them.



503.4 Floor and Ground Surfaces. Vehicle pull-up spaces and access aisles serving them shall comply with 302. Access aisles shall be at the same level as the vehicle pull-up space they serve. Changes in level are not

permitted. EXCEPTION: Slopes not steeper than 1:48 shall be permitted 503.5 Vertical Clearance. Vehicle pull-up spaces, access aisles serving them, and a vehicular route from an

entrance to the passenger loading zone, and from the passenger loading zone to a vehicular exit shall provide a

504 Stairways 504.1 General. Stairs that are part of the means of egress is required to comply with 504

504.2 Treads and Risers. All steps on a flight of stairs shall have uniform riser heights and uniform tread depths. inches (280 mm) deep minimum.

504.3 Open Risers. Open risers are not permitted.

vertical clearance of 114 inches (2895 mm) minimum.

504.4 Tread Surface. Stair treads shall comply with 302. Changes in level are not permitted.

504.5 Nosings. The radius of curvature at the leading edge of the tread shall be 1/2 inch (13 mm) maximum. Nosings that project beyond risers shall have the underside of the leading edge curved or beveled. Risers shall be permitted to slope under the tread at an angle of 30 degrees maximum from vertical. The permitted projection of the nosing shall extend 1 1/2 inches (38 mm) maximum over the tread below.

504.6 Handrails. Stairs shall have handrails complying with 505.

504.7 Wet Conditions. Stair treads and landings subject to wet conditions shall be designed to prevent the accumulation of water.

505.1 General. Handrails provided along walking surfaces complying with 403, required at ramps complying with 405, and required at stairs complying with 504 shall comply with 505.

Advisory 505.1 General. Handrails are required on ramp runs with a rise greater than 6 inches (150 mm) (see 405.8) and on certain stairways (see 504). Handrails are not required on walking surfaces with running slopes less than 1:20. However, handrails are required to comply with 505 when they are provided on walking surfaces with running slopes less than 1:20 (see 403.6). Sections 505.2, 505.3, and 505.10 do not apply to handrails provided on walking surfaces with running slopes less than 1:20 as these sections only reference requirements for ramps and stairs.

505.2 Where Required. Handrails shall be provided on both sides of stairs and ramps.

505.3 Continuity. Handrails shall be continuous within the full length of each stair flight or ramp run. Inside handrails on switchback or dogleg stairs and ramps shall be continuous between flights or runs.

505.4 Height. Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces.

505.5 Clearance. Clearance between handrail gripping surfaces and adjacent surfaces shall be 1 1/2 inches (38

505.6 Gripping Surface. Handrail gripping surfaces shall be continuous along their length and shall not be obstructed along their tops or sides. The bottoms of handrail gripping surfaces shall not be obstructed for more than 20 percent of their length. Where provided, horizontal projections shall occur 1 1/2 inches (38 mm) minimum below the bottom of the handrail gripping surface.

505.7.1 Circular Cross Section. Handrail gripping surfaces with a circular cross section shall have an outside diameter of 1 1/4 inches (32 mm) minimum and 2 inches (51 mm) maximum.

perimeter dimension of 4 inches (100 mm) minimum and 6 1/4 inches (160 mm) maximum, and a cross-section dimension of 2 1/4 inches (57 mm) maximum. 505.8 Surfaces. Handrail gripping surfaces and any surfaces adjacent to them shall be free of sharp or abrasive

505.7.2 Non-Circular Cross Sections. Handrail gripping surfaces with a non-circular cross section shall have a

elements and shall have rounded edges. 505.9 Fittings. Handrails shall not rotate within their fittings.

505.10 Handrail Extensions. Handrail gripping surfaces shall extend beyond and in the same direction of stair flights and ramp runs in accordance with 505.10.

505.10.1 Top and Bottom Extension at Ramps. Ramp handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beyond the top and bottom of ramp runs. Extensions shall return to a wall, guard, or

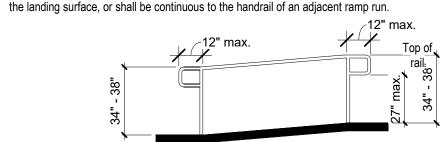
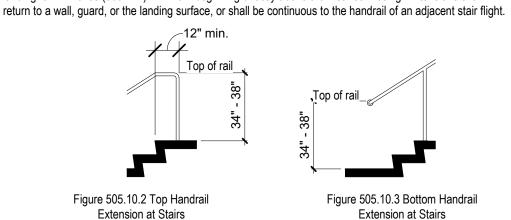


Figure 505.10.1 Top and Bottom handrail Extension at Ramps

505.10.2 Top Extension at Stairs. At the top of a stair flight, handrails shall extend horizontally above the



505.10.3 Bottom Extension at Stairs. At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

## CHAPTER 6: PLUMBING ELEMENTS AND FACILITIES

602 Drinking Fountains

602.2 Clear Floor Space. Units shall have a clear floor or ground space complying with 305 positioned for a forward approach and centered on the unit. Knee and toe clearance complying with 306 shall be provided. EXCEPTION: A parallel approach complying with 305 shall be permitted at units for children's use where the spout is 30 inches (760 mm) maximum above the finish floor or ground and is 3 1/2 inches (90 mm) maximum from the front edge of the unit, including bumpers.

602.3 Operable Parts. Operable parts shall comply with 309.

602.4 Spout Height. Spout outlets shall be 36 inches (915 mm) maximum above the finish floor or ground.

602.5 Spout Location. The spout shall be located 15 inches (380 mm) minimum from the vertical support and 5 inches (125 mm) maximum from the front edge of the unit, including bumpers.

602.6 Water Flow. The spout shall provide a flow of water 4 inches (100 mm) high minimum and shall be located 5 inches (125 mm) maximum from the front of the unit. The angle of the water stream shall be measured horizontally | DATE: relative to the front face of the unit. Where spouts are located less than 3 inches (75 mm) of the front of the unit, the angle of the water stream shall be 30 degrees maximum. Where spouts are located between 3 inches (75 mm) and 5 inches (125 mm) maximum from the front of the unit, the angle of the water stream shall be 15 degrees maximum.

602.7 Drinking Fountains for Standing Persons. Spout outlets of drinking fountains for standing persons shall be 38

inches (965 mm) minimum and 43 inches (1090 mm) maximum above the finish floor or ground.

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GEOF EDWARDS TEXAS REGISTRATION #18803

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603.2.1 Turning Space. Turning space complying with 304 shall be provided within the room.

603.2.2 Overlap. Required clear floor spaces, clearance at fixtures, and turning space shall be permitted to overlap.

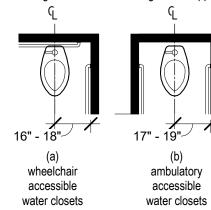
603.2.3 Door Swing. Doors shall not swing into the clear floor space or clearance required for any fixture. Doors shall be permitted to swing into the required turning space.

603.3 Mirrors. Mirrors located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 40 inches (1015 mm) maximum above the finish floor or ground. Mirrors not located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 35 inches (890 mm) maximum above the finish floor or ground.

603.4 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

#### 604 Water Closets and Toilet Compartments

604.2 Location. The water closet shall be positioned with a wall or partition to the rear and to one side. The centerline of the water closet shall be 16 inches (405 mm) minimum to 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2. Water closets shall be arranged for a left-hand or right-hand approach.



604.3.1 Size. Clearance around a water closet shall be 60 inches (1525 mm) minimum measured perpendicular from the side wall and 56 inches (1420 mm) minimum measured perpendicular from the rear wall

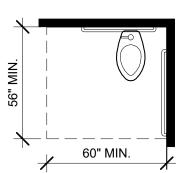


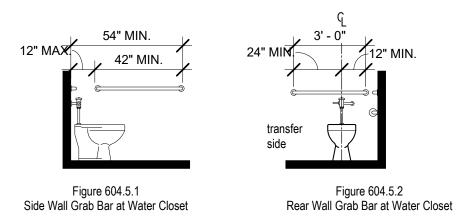
Figure 604.3.1 Size of Clearance at Water Closets

604.3.2 Overlap. The required clearance around the water closet shall be permitted to overlap the water closet, associated grab bars, dispensers, sanitary napkin disposal units, coat hooks, shelves, accessible routes, clear floor space and clearances required at other fixtures, and the turning space. No other fixtures or obstructions shall be located within the required water closet clearance.

604.4 Seats. The seat height of a water closet above the finish floor shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

604.5 Grab Bars. Grab bars for water closets shall comply with 609. Grab bars shall be provided on the side wall closest to the water closet and on the rear wall.

604.5.1 Side Wall. The side wall grab bar shall be 42 inches (1065 mm) long minimum, located 12 inches (305 mm) maximum from the rear wall and extending 54 inches (1370 mm) minimum from the rear wall.



604.5.2 Rear Wall. The rear wall grab bar shall be 36 inches (915 mm) long minimum and extend from the centerline of the water closet 12 inches (305 mm) minimum on one side and 24 inches (610 mm) minimum on the other side.

604.6 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309. Flush controls shall be located on the open side of the water closet except in ambulatory accessible compartments complying with 604.8.2.

604.7 Dispensers. Toilet paper dispensers shall comply with 309.4 and shall be 7 inches (180 mm) minimum and 9 inches (230 mm) maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 15 inches (380 mm) minimum and 48 inches (1220 mm) maximum above the finish floor and shall not be located behind grab bars. Dispensers shall not be of a type that controls delivery or that does not allow continuous paper flow.

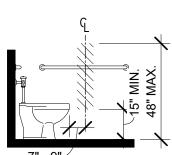


Figure 604.7 Dispenser Outlet Location

604.8 Toilet Compartments. Wheelchair accessible toilet compartments shall meet the requirements of 604.8.1 and 604.8.3. Compartments containing more than one plumbing fixture shall comply with 603. Ambulatory accessible compartments shall comply with 604.8.2 and 604.8.3.

604.8.1 Wheelchair Accessible Compartments. Wheelchair accessible compartments shall comply with

604.8.1.1 Size. Wheelchair accessible compartments shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 56 inches (1420 mm) deep minimum for wall hung water closets and 59 inches (1500 mm) deep minimum for floor mounted water closets measured perpendicular to the rear wall. Wheelchair accessible compartments for children's use shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 59 inches (1500 mm) deep minimum for wall hung and floor mounted water closets measured perpendicular to the rear wall.

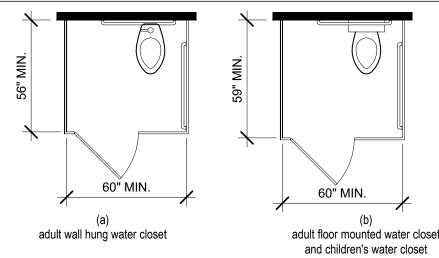


Figure 604.8.1.1 Size of Wheelchair Accessible Toilet Compartment

604.8.1.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404 except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. Doors shall be located in the front partition or in the side wall or partition farthest from the water closet. Where located in the front partition, the door opening shall be 4 inches (100 mm) maximum from the side wall or partition farthest from the water closet. Where located in the side wall or partition, the door opening shall be 4 inches (100 mm) maximum from the front partition. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment

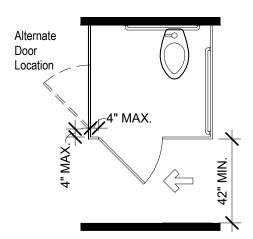


Figure 604.8.1.2 Wheelchair Accessible Toilet Compartment Doors

604.8.1.3 Approach. Compartments shall be arranged for left-hand or right-hand approach to the water closet.

604.8.1.4 Toe Clearance. The front partition and at least one side partition shall provide a toe clearance of 9 inches (230 mm) minimum above the finish floor and 6 inches (150 mm) deep minimum beyond the compartment-side face of the partition, exclusive of partition support members. Compartments for children's use shall provide a toe clearance of 12 inches (305 mm) minimum above the finish floor.

EXCEPTION: Toe clearance at the front partition is not required in a compartment greater than 62 inches (1575 mm) deep with a wall-hung water closet or 65 inches (1650 mm) deep with a floor-mounted water closet. Toe clearance at the side partition is not required in a compartment greater than 66 inches (1675 mm) wide. Toe clearance at the front partition is not required in a compartment for children's use that is greater than 65 inches (1650 mm)deep

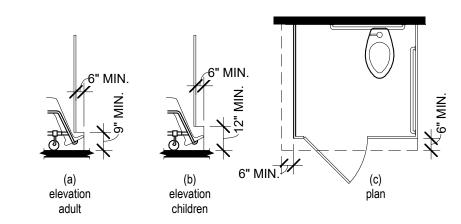


Figure 604.8.1.4 Wheelchair Accessible Toilet Compartment Toe Clearance

604.8.1.5 Grab Bars. Grab bars shall comply with 609. A side-wall grab bar complying with 604.5.1 shall be provided and shall be located on the wall closest to the water closet. In addition, a rear-wall grab bar complying with 604.5.2 shall be provided.

604.8.2 Ambulatory Accessible Compartments. Ambulatory accessible compartments shall comply with

604.8.2.1 Size. Ambulatory accessible compartments shall have a depth of 60 inches (1525 mm) minimum and a width of 35 inches (890 mm) minimum and 37 inches (940 mm) maximum.

604.8.2.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404, except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

604.8.2.3 Grab Bars. Grab bars shall comply with 609. A side-wall grab bar complying with 604.5.1 shall be provided on both sides of the compartment.

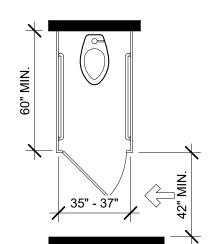


Figure 604.8.2 Ambulatory Accessible Toilet Compartment

604.8.3 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

604.9 Water Closets and Toilet Compartments for Children's Use. Water closets and toilet compartments for children's use shall comply with 604.9.

604.9.1 Location. The water closet shall be located with a wall or partition to the rear and to one side. The centerline of the water closet shall be 12 inches (305 mm) minimum and 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2. Compartments shall be arranged for left-hand or right-hand approach to the water closet.

604.9.2 Clearance. Clearance around a water closet shall comply with 604.3.

604.9.3 Height. The height of water closets shall be 11 inches (280 mm) minimum and 17 inches (430 mm) maximum measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

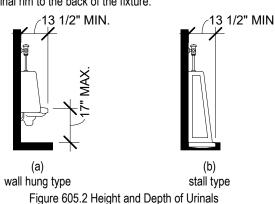
604.9.4 Grab Bars. Grab bars for water closets shall comply with 604.5.

604.9.5 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309.2 and 309.4 and shall be installed 36 inches (915 mm) maximum above the finish floor. Flush controls shall be located on the open side of the water closet except in ambulatory accessible compartments complying with 604.8.2.

604.9.6 Dispensers. Toilet paper dispensers shall comply with 309.4 and shall be 7 inches (180 mm) minimum and 9 inches (230 mm) maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 14 inches (355 mm) minimum and 19 inches (485 mm) maximum above the finish floor. There shall be a clearance of 1 1/2 inches (38 mm) minimum below the grab bar. Dispensers shall not be of a type that controls delivery or that does not allow continuous paper flow. 604.9.7 Toilet Compartments. Toilet compartments shall comply with 604.8.

#### 605 Urinals

605.2 Height and Depth. Urinals shall be the stall-type or the wall-hung type with the rim 17 inches (430 mm) maximum above the finish floor or ground. Urinals shall be 13 1/2 inches (345 mm) deep minimum measured from the outer face of the urinal rim to the back of the fixture.



605.3 Clear Floor Space. A clear floor or ground space complying with 305 positioned for forward approach shall be provided.

605.4 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309.

#### 606 Lavatories and Sinks

606.2 Clear Floor Space. A clear floor space complying with 305, positioned for a forward approach, and knee and toe clearance complying with 306 shall be provided.

606.3 Height. Lavatories and sinks shall be installed with the front of the higher of the rim or counter surface 34 inches (865 mm) maximum above the finish floor or ground.

606.4 Faucets. Controls for faucets shall comply with 309. Hand-operated metering faucets shall remain open for 10 seconds minimum.

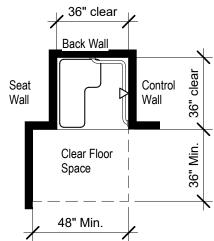
606.5 Exposed Pipes and Surfaces. Water supply and drain pipes under lavatories and sinks shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces

#### 608 Shower Compartments

under lavatories and sinks.

608.2 Size and Clearances for Shower Compartments. Shower compartments shall have sizes and clearances complying with 608.2.

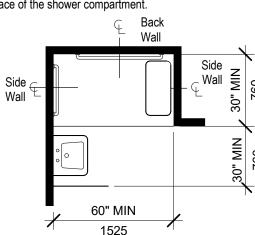
608.2.1 Transfer Type Shower Compartments. Transfer type shower compartments shall be 36 inches (915 mm) by 36 inches (915 mm) clear inside dimensions measured at the center points of opposing sides and shall have a 36 inch (915 mm) wide minimum entry on the face of the shower compartment. Clearance of 36 inches (915 mm) wide minimum by 48 inches (1220 mm) long minimum measured from the control wall shall be provided.



Note: inside finish dimensions measure at the center points of opposing sides

Figure 608.2.1 Transfer Type Shower Compartment Size and Clearance
608.2.2 Standard Roll-In Type Shower Compartments. Standard roll-in type shower compartments shall be 30 inches (760 mm) wide minimum by 60 inches (1525 mm) deep minimum clear inside dimensions measured at center points of opposing sides and shall have a 60 inches (1525 mm) wide minimum entry on the face of the

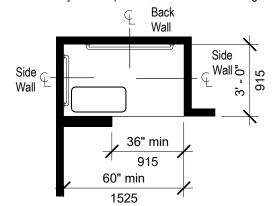
608.2.2.1 Clearance. A 30 inch (760 mm) wide minimum by 60 inch (1525 mm) long minimum clearance shall be provided adjacent to the open face of the shower compartment.



Note: inside finished dimentions measured at the center points of opposing sides

## Figure 608.2.3 Alternate Roll-In Type Shower Compartment Size and Clearance

608.2.3 Alternate Roll-In Type Shower Compartments. Alternate roll-in type shower compartments shall be 36 inches (915 mm) wide and 60 inches (1525 mm) deep minimum clear inside dimensions measured at center points of opposing sides. A 36 inch (915 mm) wide minimum entry shall be provided at one end of the long side of the compartment.

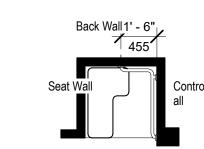


Note: inside finished dimentions measured at the center points of opposing sides Figure 608.2.3 Alternate Roll-In Type Shower Compartment Size and Clearance

bars are used, required horizontal grab bars shall be installed at the same height above the finish floor.

608.3.1 Transfer Type Shower Compartments. In transfer type compartments, grab bars shall be provided across the control wall and back wall to a point 18 inches (455 mm) from the control wall.

608.3 Grab Bars. Grab bars shall comply with 609 and shall be provided in accordance with 608.3. Where multiple grab



#### Figure 608.3.1 Grab Bars for Transfer Type Showers

608.3.2 Standard Roll-In Type Shower Compartments. Where a seat is provided in standard roll-in type shower compartments, grab bars shall be provided on the back wall and the side wall opposite the seat. Grab bars shall not be provided above the seat. Where a seat is not provided in standard roll-in type shower compartments, grab bars shall be provided on three walls. Grab bars shall be installed 6 inches (150 mm) maximum from adjacent walls.

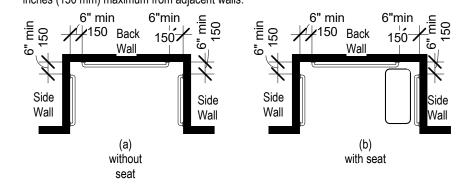
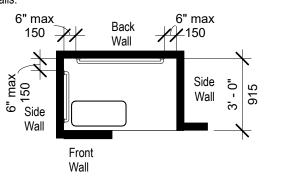


Figure 608.3.2 Grab Bars for Standard Roll-In Type Showers

608.3.3 Alternate Roll-In Type Shower Compartments. In alternate roll-in type shower compartments, grab bars shall be provided on the back wall and the side wall farthest from the compartment entry. Grab bars shall not be provided above the seat. Grab bars shall be installed 6 inches (150 mm) maximum from adjacent walls.



#### Figure 608.3.3 Grab Bars for Alternate Roll-In Type Showers

608.4 Seats. A folding or non-folding seat shall be provided in transfer type shower compartments. A folding seat shall be provided in roll-in type showers required in transient lodging guest rooms with mobility features complying with 806.2. Seats shall comply with 610. 608.5 Controls. Controls, faucets, and shower spray units shall comply with 309.4.

608.5.1 Transfer Type Shower Compartments. In transfer type shower compartments, the controls, faucets, and shower spray unit shall be installed on the side wall opposite the seat 38 inches (965 mm) minimum and 48 inches (1220 mm) maximum above the shower floor and shall be located on the control wall 15 inches (380 mm) maximum from the centerline of the seat toward the shower opening.

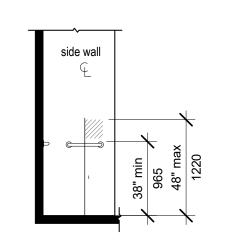


Figure 608.5.1 Transfer Type Shower Compartment Control Location

608.5.2 Standard Roll-In Type Shower Compartments. In standard roll-in type shower compartments, the controls, faucets, and shower spray unit shall be located above the grab bar, but no higher than 48 inches (1220 mm) above the shower floor. Where a seat is provided, the controls, faucets, and shower spray unit shall be installed on the back wall adjacent to the seat wall and shall be located 27 inches (685 mm) maximum from the seat wall.

608.5.2 Standard Roll-In Type Shower Compartments. In standard roll-in type shower compartments, the controls, faucets, and shower spray unit shall be located above the grab bar, but no higher than 48 inches (1220 mm) above the shower floor. Where a seat is provided, the controls, faucets, and shower spray unit shall be installed on the back wall adjacent to the seat wall and shall be located 27 inches (685 mm) maximum from the seat wall.

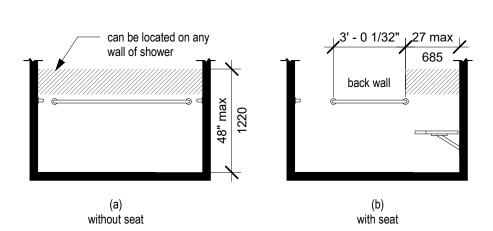


Figure 608.5.2 Standard Roll-In Type Shower Compartment Control Location 608.5.3 Alternate Roll-In Type Shower Compartments. In alternate roll-in type shower bar, but no higher than 48 inches (1220 mm) above the shower floor. Where a seat is provided, the controls, faucets, and shower spray unit shall be located on the side wall shower spray unit shall be installed on the side wall farthest from the compartment entry.

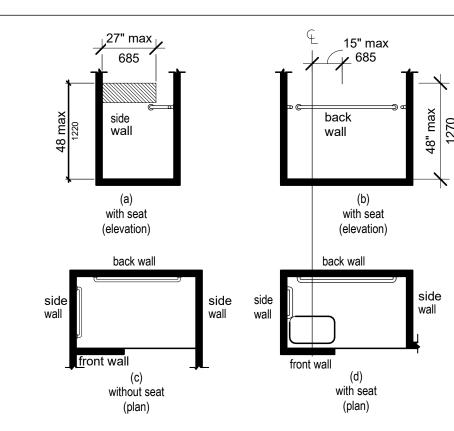
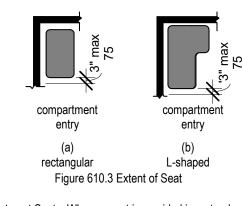


Figure 608.5.3 Alternate Roll-In Type Shower Compartment Control Location

608.6 Shower Spray Unit and Water. A shower spray unit with a hose 59 inches (1500 mm) long minimum that can be used both as a fixed-position shower head and as a hand-held shower shall be provided. The shower spray unit shall have an on/off control with a non-positive shut-off. If an adjustable-height shower head on a vertical bar is used, the bar shall be installed so as not to obstruct the use of grab bars. Shower spray units shall deliver water that is 120°F (49°C) maximum. 608.7 Thresholds. Thresholds in roll-in type shower compartments shall be 1/2 inch (13 mm) high maximum in accordance with 303. In transfer type shower compartments, thresholds 1/2 inch (13 mm) high maximum shall be beveled, rounded, or vertical.

608.8 Shower Enclosures. Enclosures for shower compartments shall not obstruct controls, faucets, and shower spray units or obstruct transfer from wheelchairs onto shower seats.



610.3 Shower Compartment Seats. Where a seat is provided in a standard roll-in shower compartment, it shall be a folding type, shall be installed on the side wall adjacent to the controls, and shall extend from the back wall to a point within 3 inches (75 mm) of the compartment entry. Where a seat is provided in an alternate roll-in type shower compartment, it shall be a folding type, shall be installed on the front wall opposite the back wall, and shall extend from the adjacent side wall to a point within 3 inches (75 mm) of the compartment entry. In transfer-type showers, the seat shall extend from the back wall to a point within 3 inches (75 mm) of the compartment entry. The top of the seat shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum above the bathroom finish floor. Seats shall comply with 610.3.1 or 610.3.2.

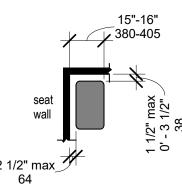
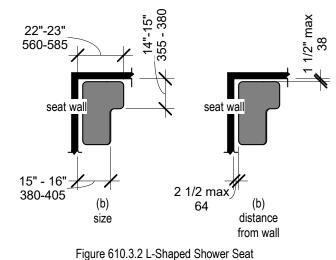


Figure 610.3.1 Rectangular Shower Seat

610.3.1 Rectangular Seats. The rear edge of a rectangular seat shall be 2 1/2 inches (64 mm) maximum and the front edge 15 inches (380 mm) minimum and 16 inches (405 mm) maximum from the seat wall. The side edge of the seat shall be 1 1/2 inches (38 mm) maximum from the adjacent wall.



610.3.2 L-Shaped Seats. The rear edge of an L-shaped seat shall be 2 1/2 inches (64 mm) maximum and the front edge 15 inches (380 mm) minimum and 16 inches (405 mm) maximum from the seat wall. The rear edge of the "L" portion of the seat shall be 1 1/2 inches (38 mm) maximum from the wall and the front edge shall be 14 inches (355 mm) minimum and 15 inches (380 mm) maximum from the wall. The end of the "L" shall be 22 inches (560 mm) minimum and 23 inches maximum (585 mm) from the main seat wall.

610.4 Structural Strength. Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds (1112 N) is applied at any point on the seat, fastener, mounting device, or supporting structure.

DUNE 201 San Antonio, Texas 78205

ACCESSIBIL

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12.01.2021

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CHAPTER 7: COMMUNICATION ELEMENTS AND FEATURES 702 Fire Alarm Systems 702.1 General. Fire alarm systems shall have permanently installed audible and visible alarms complying with NFPA 72 (1999 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1), except that the maximum allowable sound level of audible notification appliances complying with section 4-3.2.1 of NFPA 72 (1999 edition) shall have a sound level no more than 110 dB at the minimum hearing distance from the audible appliance. In addition, alarms in guest rooms required to provide communication features shall comply with sections 4-3 and 4-4 of NFPA 72 (1999 edition) or sections 7.4 and 7.5 of NFPA 72 (2002 edition).

703 Signs

703.1 General.

Signs shall comply with 703. Where both visual and tactile characters are required, either one sign with both visual and tactile characters, or two separate signs, one with visual, and one with tactile characters, shall be provided.

703.2 Raised Characters. Raised characters shall comply with 703.2 and shall be duplicated in braille complying with 703.3. Raised characters shall be installed in accordance with 703.4. 703.2.1 Depth. Raised characters shall be 1/32 inch (0.8 mm) minimum above their background.

703.2.2 Case. Characters shall be uppercase.

703.2.3 Style. Characters shall be sans serif. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

703.2.4 Character Proportions. Characters shall be selected from fonts where the width of the uppercase letter "O" is 55 percent minimum and 110 percent maximum of the height of the uppercase letter "I". 703.2.5 Character Height. Character height measured vertically from the baseline of the character shall be 5/8 inch (16 mm) minimum and 2 inches (51 mm) maximum based on the height of the uppercase letter

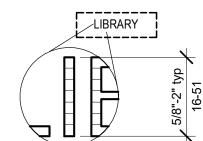
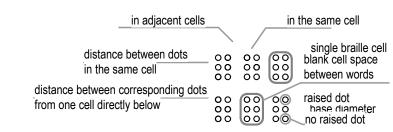


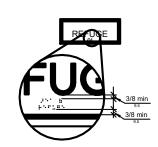
Figure 703.2.5 Height of Raised Characters

703.2.6 Stroke Thickness. Stroke thickness of the uppercase letter "I" shall be 15 percent maximum of the height of the character. 703.2.7 Character Spacing. Character spacing shall be measured between the two closest points of adjacent raised characters within a message, excluding word spaces. Where characters have rectangular cross sections, spacing between individual raised characters shall be 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum. Where characters have other cross sections, spacing between individual raised characters shall be 1/16 inch (1.6 mm) minimum and 4 times the raised character stroke width maximum at the base of the cross sections, and 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum at the top of the cross sections. Characters shall be separated from raised borders and decorative elements 3/8 inch (9.5 mm) minimum. 703.2.8 Line Spacing. Spacing between the baselines of separate lines of raised characters within a message shall be 135 percent minimum and 170 percent maximum of the raised character height. 703.3 Braille. Braille shall be contracted (Grade 2) and shall comply with 703.3 and 703.4. 703.3.1 Dimensions and Capitalization. Braille dots shall have a domed or rounded shape and shall comply with Table 703.3.1. The indication of an uppercase letter or letters shall only be used before the first word of sentences, proper nouns and names, individual letters of the alphabet, initials, and acronyms.



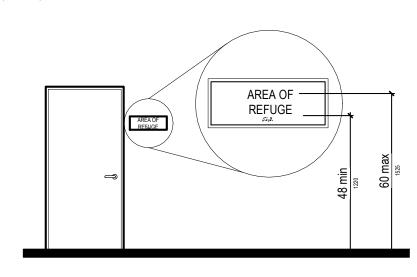
#### Figure 703.3.1 Braille Measurement

703.3.2 Position. Braille shall be positioned below the corresponding text. If text is multi-lined, braille shall be placed below the entire text. Braille shall be separated 3/8 inch (9.5 mm) minimum from any other tactile characters and 3/8 inch (9.5 mm) minimum from raised borders and decorative elements.



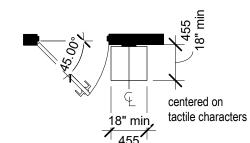
#### Figure 703.3.2 Position of Braille

703.3.2 Position. Braille shall be positioned below the corresponding text. If text is multi-lined, braille shall be placed below the entire text. Braille shall be separated 3/8 inch (9.5 mm) minimum from any other tactile characters and 3/8 inch (9.5 mm) minimum from raised borders and decorative elements.



#### Figure 703.3.2 Position of Braille

703.4.2 Location. Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leafs, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.



#### Figure 703.4.2 Location of Tactile Signs at Doors

703.5 Visual Characters. Visual characters shall comply with 703.5. 703.5.1 Finish and Contrast. Characters and their background shall have a non-glare finish. Characters shall contrast with their background with either light characters on a dark background or dark characters on a light background.

703.5.2 Case. Characters shall be uppercase or lowercase or a combination of both.

703.5.3 Style. Characters shall be conventional in form. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

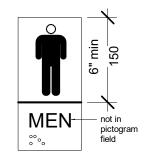
703.5.4 Character Proportions. Characters shall be selected from fonts where the width of the uppercase letter "O" is 55 percent minimum and 110 percent maximum of the height of the uppercase letter "I".

703.5.5 Character Height. Minimum character height shall comply with Table 703.5.5. Viewing distance shall be measured as the horizontal distance between the character and an obstruction preventing further approach towards the sign. Character height shall be based on the uppercase letter "I".

703.5.6 Height From Finish Floor or Ground. Visual characters shall be 40 inches (1015 mm) minimum above the finish floor or ground.

703.5.7 Stroke Thickness. Stroke thickness of the uppercase letter "I" shall be 10 percent minimum and 30 percent maximum of the height of the character.

703.5.8 Character Spacing. Character spacing shall be measured between the two closest points of adjacent characters, excluding word spaces. Spacing between individual characters shall be 10 percent minimum and 35 percent maximum of character height. 703.5.9 Line Spacing. Spacing between the baselines of separate lines of characters within a message shall be 135 percent minimum and 170 percent maximum of the character height. 703.6 Pictograms. Pictograms shall comply with 703.6. 703.6.1 Pictogram Field. Pictograms shall have a field height of 6 inches (150 mm) minimum. Characters and braille shall not be located in the pictogram field.



#### Figure 703.6.1 Pictogram Field dark-on-light.

703.6.2 Finish and Contrast. Pictograms and their field shall have a non-glare finish. Pictograms shall contrast with their field with either a light pictogram on a dark field or a dark pictogram on a light field.

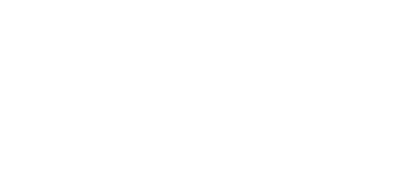
703.6.3 Text Descriptors. Pictograms shall have text descriptors located directly below the pictogram field. Text descriptors shall comply with 703.2, 703.3 and 703.4. 703.7 Symbols of Accessibility. Symbols of accessibility shall comply with 703.7. 703.7.1 Finish and Contrast. Symbols of accessibility and their background shall have a non-glare finish. Symbols of accessibility shall contrast with their background with either a light symbol on a dark background or a dark symbol on a light background.

704 Telephones 704.1 General. Public telephones shall comply with 704.

704.2 Wheelchair Accessible Telephones. Wheelchair accessible telephones shall comply with 704.2.

704.2.1 Clear Floor or Ground Space. A clear floor or ground space complying with 305 shall be provided. The clear floor or ground space shall not be obstructed by bases, enclosures, or seats. Advisory 704.2.1 Clear Floor or Ground Space. Because clear floor and ground space is required to be unobstructed, telephones, enclosures and related telephone book storage cannot encroach on the required clear floor or ground space and must comply with the provisions for protruding objects. (See Section 307).

704.2.1.1 Parallel Approach. Where a parallel approach is provided, the distance from the edge of the telephone enclosure to the face of the telephone unit shall be 10 inches (255 mm) maximum.





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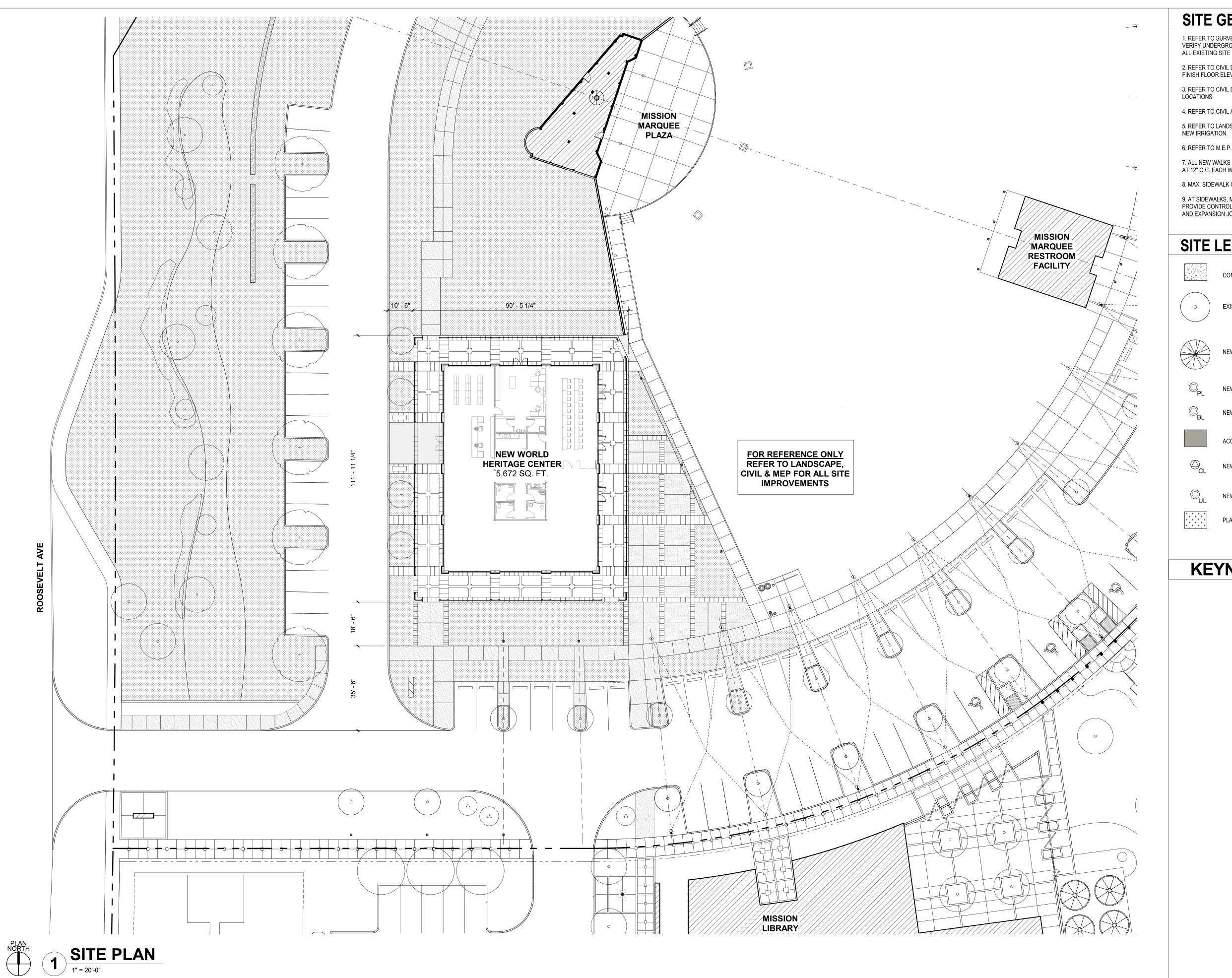
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# SITE GENERAL NOTES

1. REFER TO SURVEY SHEETS FOR EXISTING CONDITIONS.FIELD VERIFY UNDERGROUND UTILITIES. CONTRACTOR TO FIELD VERIFY ALL EXISTING SITE DIMENSIONS AND CONDITIONS.

2. REFER TO CIVIL DRAWINGS FOR NEW GRADING AND BUILDING FINISH FLOOR ELEVATION.

3. REFER TO CIVIL DRAWINGS FOR NEW BUILDING AND NEW CURBS

4. REFER TO CIVIL AND MECH. DRAWINGS FOR NEW SITE UTILITIES.

5. REFER TO LANDSCAPE DRAWINGS FOR NEW LANDSCAPE AND

6. REFER TO M.E.P. FOR SITE LIGHTING INFORMATION.

7. ALL NEW WALKS TO BE 4" CONCRETE, REINFORCED W/ #3 BARS AT 12" O.C. EACH WAY.

8. MAX. SIDEWALK CROSS SLOPE OF 2%.

9. AT SIDEWALKS, MOWSTRIP, CONCRETE PAVER EDGE CURBS. PROVIDE CONTROL JOINTS 5'-0" O.C. OR AS INDICATED ON PLANS, AND EXPANSION JOINTS AT 20'-0" O.C. MAX.

# SITE LEGEND

CONCRETE WALK

EXISTING TREE, REFER TO LANDSCAPE

NEW TREE, REFER TO LANDSCAPE



NEW POLE MOUNTED LIGHT, RE: ELEC.

NEW BOLLARD MOUNTED LIGHT, RE: ELEC.



ACCESSIBLE ROUTE



NEW CANOPY LIGHT, RE: ELEC.

NEW GARDEN LIGHT, RE: ELEC.



PLANTING AREA, REFER TO LANDSCAPE

# **KEYNOTE LEGEND**

S

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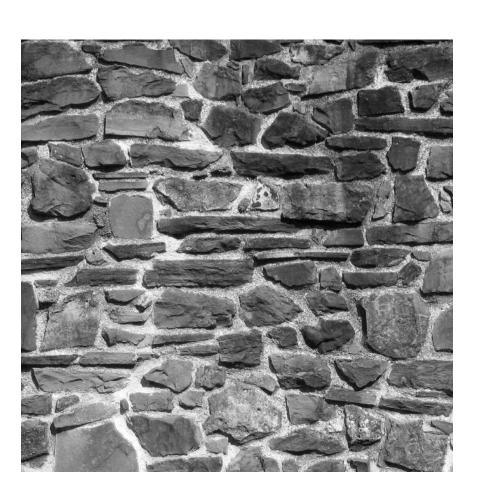
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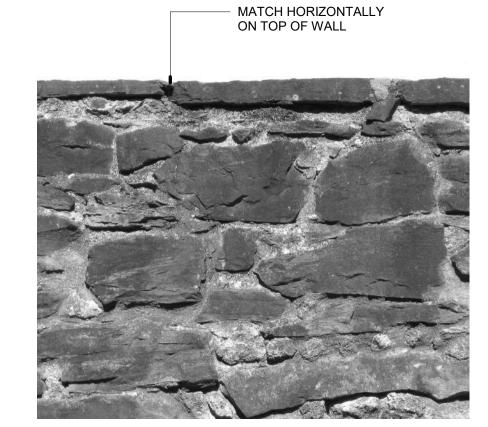
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PATTERN AT WALLS



PATTERN AT COPING

TYP. STONE VENEER PATTERN

1 1/2" = 1'-0"

WORLD HERITAGE SAN ANTONIO, TEX

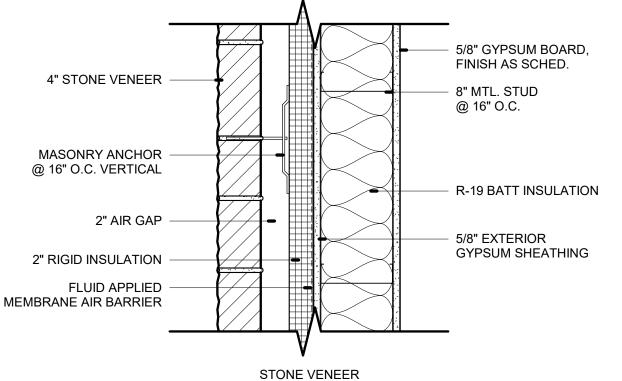
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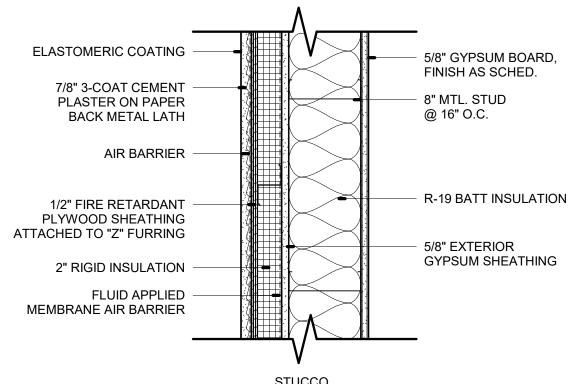
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2 EXT. WALL ASSEMBLY - VENEER

EXT. WALL ASSEMBLY



3 EXT. WALL ASSEMBLY - STUCCO

EXT. WALL ASSEMBLY

FLOOR PLAN GENERAL NOTES

1. TYPICAL ROOM DRYWALL PARTITION TO BE PARTITION TYPE P8 U.N.O. PROVIDE SOUND BATT INSUL. AT OFFICES, CONFERENCE ROOMS, CLASSROOMS AND STUDY SPACES. REFER TO PARTITION SCHEDULE ON SHEET A-401.

2. PROVIDE COLUMN FURRING PARTITION TYPE P3 AT ALL COLUMNS UNLESS U.N.O. REFER TO

PARTITION SCHEDULE ON SHEET A-401.

3. REFER TO SHEET A-401 FOR ROOM FINISH SCHEDULE.

4. REFER TO SHEET A-401 FOR DOOR SCHEDULE.

5. REFER TO SHEET A-401 FOR WINDOW SCHEDULE, WINDOW NOTES AND WINDOW TYPE.

6. REFER TO SHEET A-101 FOR SITE INFORMATION.

7. REFER TO A-401 FOR MOUNTING HEIGHT SCHEDULE

8. PROVIDE WINDOW SHADES TYPICAL AT ALL WINDOWS EXCEPT CORRIDOR LOCATIONS. REFER TO A-401 FOR ROLLER SHADE SCHEDULE.

9. ELECTRICAL BOXES ARE TO BE STAGGERED 16" MIN. NOT BACK TO BACK.

10. PROVIDE CORNER GUARDS AT ALL OUTSIDE CORNERS ALONG GENERAL CIRCULATION PATHS OF CORRIDORS AND LOBBIES. REFER TO DETAIL.

11. PROVIDE CONTROL JOINTS IN INTERIOR DRYWALL PARTITIONS PER MANUFACTURER'S RECOMMENDATIONS UNLESS SHOWN OTHERWISE IN DRAWINGS. COORDINATE EXACT PLACEMENT OF ANY CONTROL JOINTS REQUIRED BUT NOT INDICATED WITH THE ARCHITECT.

12. REFER TO MEP SHEETS FOR VERIFICATION OF ALL ELECTRICAL, DATA, VOICE AND VENTILATION LOCATIONS.

13. REFER TO SPECIFICATION FOR HARDWARE SETS FOR DOORS.

14. ALL FURNITURE INDICATED IN DASHED OR SHADED LINEWORK IS FOR GENERAL REFERENCE ONLY AND IS NOT IN CONTRACT.

15. PROVIDE SIGNAGE FOR EACH ROOM LOCATION, REFER TO SCHEDULE & DETAILS.

16. — - DASHED LINE INDICATES 2 HR RATED PARTITION REFER TO CEILING PLAN FOR WALLS THAT EXTEND TO STRUCTURE.

17. P WALL TYPES

A WINDOW TYPES

# **KEYNOTE LEGEND**

1.1 EXISTING WALL TO REMAIN

1.4 EXISTING CONCRETE WALK TO REMAIN

1.14 NEW SITE WALL, RE. LANDSCAPE

1.17 NEW CONCRETE WALK, RE. CIVIL

1.19 NEW PLANTING AREA, RE. LANDSCAPE

1.22 NEW CONCRETE PAVING WITH STONE PAVER INSET, RE. LANDSCAPE

1.25 NEW CONCRETE PAVING AT MAIN ENTRANCE W/STONE PAVER INSET, RE. LANDSCAPE

2.6 FOLDABLE GLASS WALL AS SPEC.

2.12 DRINKING FOUNTAIN, AS SPEC.

2.13 ROOF HATCH LADDER AS SPEC

2.19 CASED OPENING, SEE 07/A-402
 2.21 CUSTOM RECEPTION DESK - SOLID SURFACE TOP W/LED UNDERLIGHTING. 24" WOOD VENEER BASE CABINETS & DRAWERS W/TWO ADJUSTABLE SHELVES.

ALL DOORS AND DRAWERS TO BE LOCKABLE

2.22 LOCKERS AS SPEC.

2.27 BASE & WALL CABINETS

2.30 MOP SINK

FLOOR PLAN

DUNA

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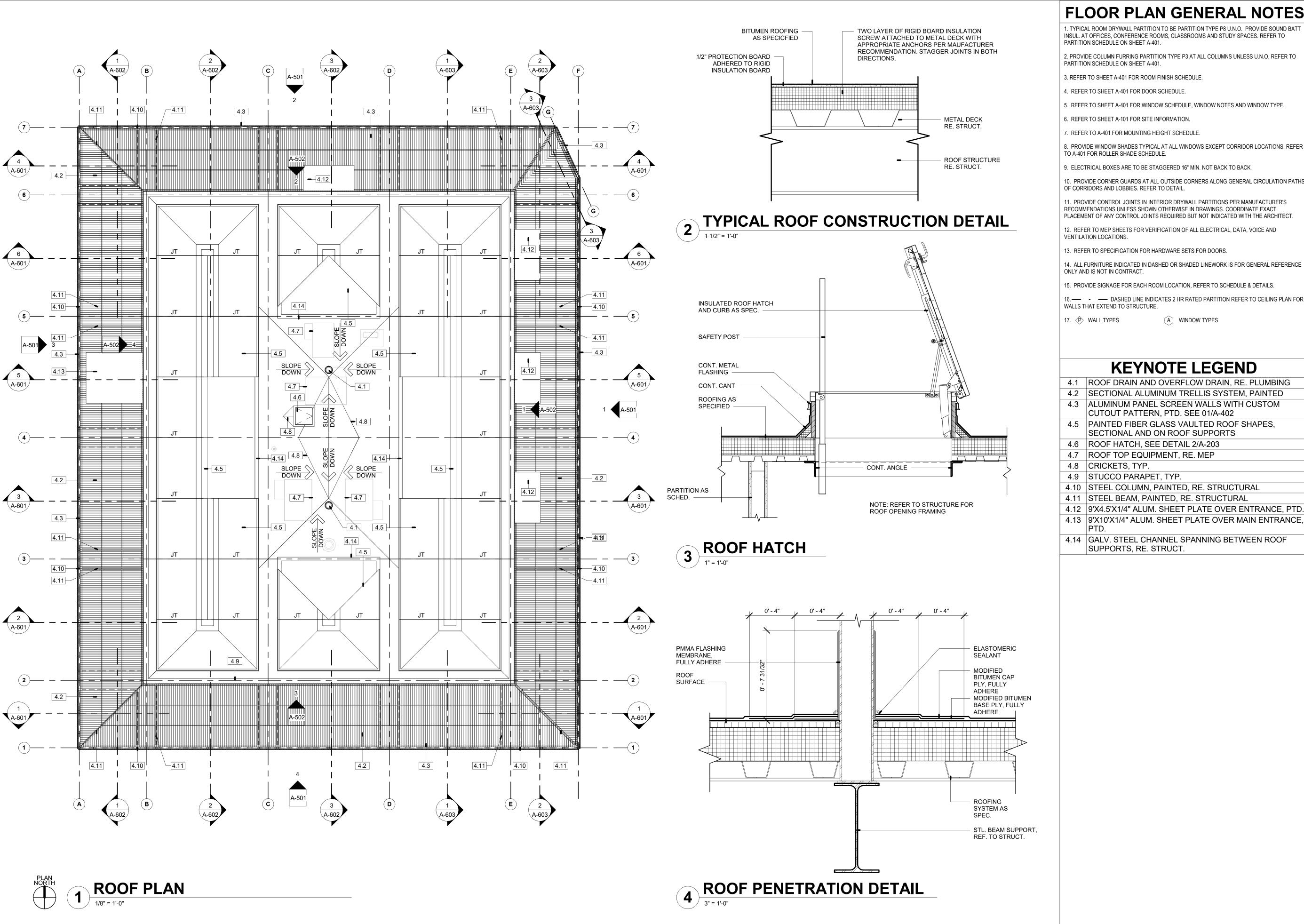
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A-202

FLOOR PLAN

1/8" = 1'-0"



# **FLOOR PLAN GENERAL NOTES**

INSUL. AT OFFICES, CONFERENCE ROOMS, CLASSROOMS AND STUDY SPACES. REFER TO PARTITION SCHEDULE ON SHEET A-401.

2. PROVIDE COLUMN FURRING PARTITION TYPE P3 AT ALL COLUMNS UNLESS U.N.O. REFER TO PARTITION SCHEDULE ON SHEET A-401.

3. REFER TO SHEET A-401 FOR ROOM FINISH SCHEDULE.

4. REFER TO SHEET A-401 FOR DOOR SCHEDULE.

5. REFER TO SHEET A-401 FOR WINDOW SCHEDULE, WINDOW NOTES AND WINDOW TYPE.

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7. REFER TO A-401 FOR MOUNTING HEIGHT SCHEDULE.

8. PROVIDE WINDOW SHADES TYPICAL AT ALL WINDOWS EXCEPT CORRIDOR LOCATIONS. REFER TO A-401 FOR ROLLER SHADE SCHEDULE.

9. ELECTRICAL BOXES ARE TO BE STAGGERED 16" MIN. NOT BACK TO BACK.

10. PROVIDE CORNER GUARDS AT ALL OUTSIDE CORNERS ALONG GENERAL CIRCULATION PATHS OF CORRIDORS AND LOBBIES. REFER TO DETAIL.

11. PROVIDE CONTROL JOINTS IN INTERIOR DRYWALL PARTITIONS PER MANUFACTURER'S RECOMMENDATIONS UNLESS SHOWN OTHERWISE IN DRAWINGS. COORDINATE EXACT PLACEMENT OF ANY CONTROL JOINTS REQUIRED BUT NOT INDICATED WITH THE ARCHITECT.

12. REFER TO MEP SHEETS FOR VERIFICATION OF ALL ELECTRICAL, DATA, VOICE AND VENTILATION LOCATIONS.

13. REFER TO SPECIFICATION FOR HARDWARE SETS FOR DOORS.

14. ALL FURNITURE INDICATED IN DASHED OR SHADED LINEWORK IS FOR GENERAL REFERENCE ONLY AND IS NOT IN CONTRACT.

15. PROVIDE SIGNAGE FOR EACH ROOM LOCATION, REFER TO SCHEDULE & DETAILS.

16. — - DASHED LINE INDICATES 2 HR RATED PARTITION REFER TO CEILING PLAN FOR WALLS THAT EXTEND TO STRUCTURE.

17. P WALL TYPES

(A) WINDOW TYPES

# **KEYNOTE LEGEND**

- 4.1 ROOF DRAIN AND OVERFLOW DRAIN, RE. PLUMBING
- 4.2 SECTIONAL ALUMINUM TRELLIS SYSTEM, PAINTED 4.3 ALUMINUM PANEL SCREEN WALLS WITH CUSTOM CUTOUT PATTERN, PTD. SEE 01/A-402
- 4.5 PAINTED FIBER GLASS VAULTED ROOF SHAPES,
- SECTIONAL AND ON ROOF SUPPORTS
- 4.6 ROOF HATCH, SEE DETAIL 2/A-203 4.7 ROOF TOP EQUIPMENT, RE. MEP
- 4.8 CRICKETS, TYP.
- 4.9 STUCCO PARAPET, TYP.
- 4.10 STEEL COLUMN, PAINTED, RE. STRUCTURAL
- 4.11 STEEL BEAM, PAINTED, RE. STRUCTURAL
- 4.12 9'X4.5'X1/4" ALUM. SHEET PLATE OVER ENTRANCE, PTD.
- 4.13 9'X10'X1/4" ALUM. SHEET PLATE OVER MAIN ENTRANCE

4.14 GALV. STEEL CHANNEL SPANNING BETWEEN ROOF SUPPORTS, RE. STRUCT

DUNA

INTERIM REVIEW DOCUMENTS THE SCHEMATIC DESIGN DOCUMENTS DEPICTED THEREIN

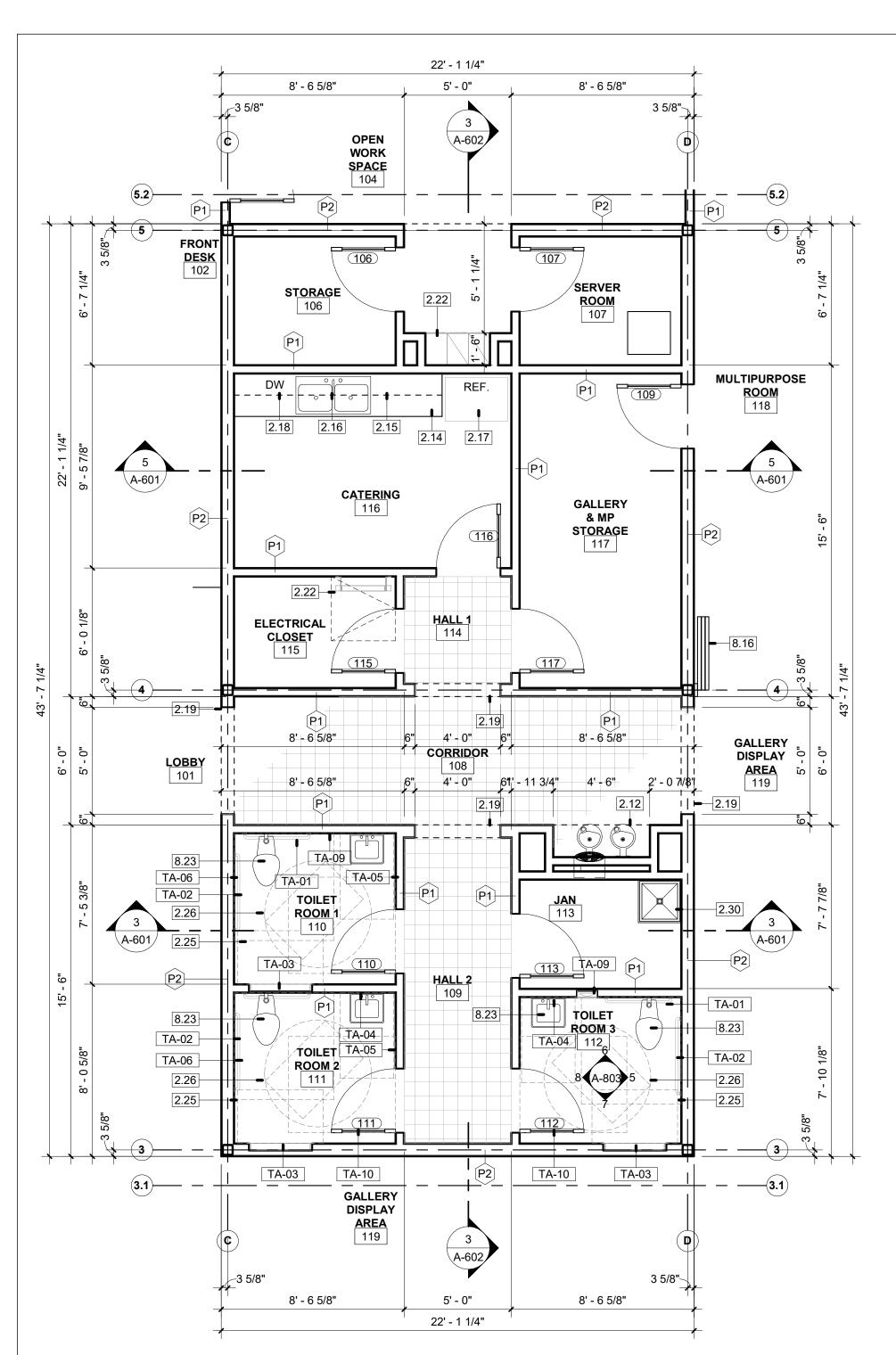
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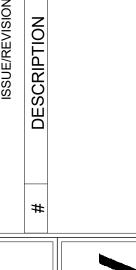


# 1 ENLARGED PLAN 1/4" = 1'-0"

MODEL	MODEL NO.	MFR.	DESCRIPTION	MOUNTING HEIGHT	REMARKS
TA-01	B-5806X36	BOBRICK	GRAB BAR	2'-10" TO CENTER	
TA-02	B-5806X42	BOBRICK	GRAB BAR	2'-10" TO CENTER	
TA-03	KB-110-SSRE	BOBRICK	VERTICAL RECESSED BABY CHANGING STATION	5'-3" TO TOP	
TA-04	B-290-2436	BOBRICK	SS FRAMED MIRROR	3'-3" TO BOTTOM	NON-HCP APPLICATIONS
TA-05	B-306	BOBRICK	RECESSED SOAP DISPENSER	3'-4" TO CENTER	
TA-06	B-2890	BOBRICK	SURFACE MTD. TISSUE DISPENSER	2'-8" TO TOP	
TA-07	B-354	BOBRICK	PARTITION MTD. NAPKIN DISPOSAL	2'-8" TO TOP	EA. SERVES TWO COMPARTMENTS
TA-08	B-3500	BOBRICK	RECESSED NAPKIN/TAMPON VENDOR	5'-0" TO TOP	
TA-09	B-39003	BOBRICK	RECESSED TOWEL DISPENSER/WASTE RECEPTICAL	5'-0" TO TOP	
TA-10	B-682	BOBRICK	COAT HOOK	5'-0" TO CENTER	
TA-11	B-223X24	BOBRICK	MOP/BROOM HOLDER	5'-0" TO CENTER	
TA-12	B-295X60	BOBRICK	SHELF	5'-0" TO CENTER	5'-0" IN LENGTH

# **KEYNOTE LEGEND**

- 2.12 DRINKING FOUNTAIN, AS SPEC.
- 2.14 24" WOOD VENEER BASE CABINETS & DRAWERS W/ONE ADJUSTABLE SHELF & SOLID SURFACE COUNTERTOP
- 2.15 12" WOOD VENEER UPPER CABINETS W/TWO
- ADJUSTABLE SHELVES
- 2.16 UNDERMOUNTED DOUBLE COMPARTMENT SINK &
- GARBAGE DISPOSAL 2.17 REFRIGERATOR N.I.C.
- 2.18 DISHWASHER, ADA RESIDENTIAL GRADE
- 2.19 CASED OPENING, SEE 07/A-402
- 2.22 LOCKERS AS SPEC.
- 2.25 CLEAR FLOOR SPACE
- 2.26 WHEEL CHAIR TURNING SPACE
- 2.30 MOP SINK
- 8.16 FOLDABLE GLASS WALL AS SPEC.
- 8.23 PLUMBING FIXTURE, RE. PLUMBING
- TA-01 GRAB BAR AS SCHED.
- TA-02 GRAB BAR AS SCHED.
- TA-03 BABY CHANGING STATION AS SCHED.
- TA-04 MIRROR AS SCHED.
- TA-05 SOAP DISPENSER AS SCHED.
- TA-06 TISSUE DISPENSER AS SCHED.
- TA-09 TOWEL DISPENSER/WASTE RECEPTICAL AS SCHED.
- TA-10 COAT HOOK AS SCHED.







INTERIM REVIEW DOCUMENTS

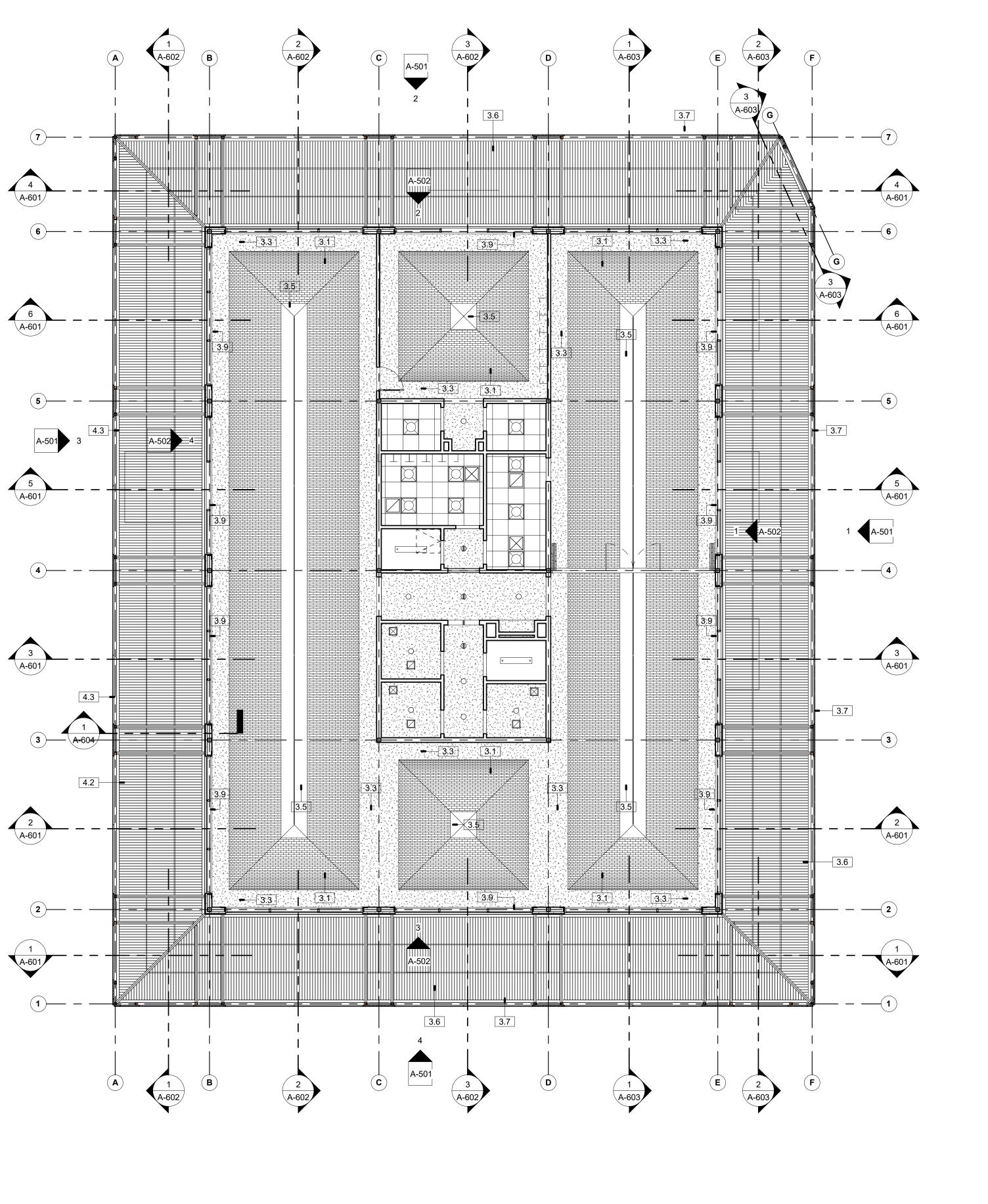
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GEOF EDWARDS TEXAS REGISTRATION #18803

12.01.2021 JOB NO. A19021.00 DESIGNED BY:

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NOTE: WEIGHT AND LOADING CAPABILITIES OF NEW EQUIPMENT SUPPORT TO BE VERIFIED BY CONTRACTOR

24 GA. GALV. CAP SECURED W/ NEOPRENE HEAD SCREWS AT 24" O.C. BASE FLASHING CONT. OVER TOP OF CURB TREATED WD. BLOCKING 18 GA. GALV. CURB AND BASE PLATE BY "THYCURB" OR APPROVED EQUAL, SCREW TO DECK AT 24" O.C. **BLEEDER SHEET** FIBER CANT STRIP CONT. BASE FLASHING AS SPEC. ROOF SYSTEM AS SPECIFIED STEEL DECK

RIGID INSULATION BD

2 TYP. EQUIPMENT SUPPORT

RCP GENERAL NOTES

SEE FINISH SCHEDULE FOR CEILING TYPES U.N.O. REFER TO LIFE SAFETY PLANS FOR RATED WALLS.

CEILING GRIDS CENTERED IN ROOM U.N.O. ALL FIXTURES/ DEVICES MAY NOT BE INDICATED COORDINATE WITH MEP. A/V. & TELECOM DRAWINGS, AND PROVIDE ADDITIONAL FIXTURES. DEVICES AS REQUIRED.

REFER TO MECHANICAL FOR AIR DEVICES TYPICAL. REFER TO ELECTRICAL FOR CEILING SPEAKER PLACEMENT REFER TO ELECTRICAL FOR LIGHTING AND POWER. LIGHTING LAYOUT AT MECHANICAL ROOMS TO BE COORDINATED

WITH M.E.P. ALL CEILINGS TO BE 9'-0" A.F.F. U.N.O. - COORDINATE ANY DISCREPANCIES WITH CEILING HEIGHT AND MEP WORK WITH ARCHITECT BEFORE INSTALLATION OF ANY OVERHEAD ITEMS.

PROVIDE AND COORDINATE ACCESS DOORS WITH MEP.

# RCP LEGEND

OPEN TO STRUCTURE (NOT PAINTED) GYPSUM BOARD CEILING

24" X 24" LAY-IN CEILING BRICK BOVEDA CEILING

RECESSED DOWN LIGHT FIXTURE

RECESSED DOWN LIGHT FIXTURE - DIMMING

RECESSED LED FIXTURE 24" X 24"

RECESSED LED FIXTURE 24" X 48"

RECESSED 12"X48" LINEAR FIXTURE

WALL MOUNTED LINEAR FIXTURE - RESTROOM (REF. TO RCP FOR RUN LENGTHS) PROVIDE FINISH TRIM TO MATCH HOUSING WHERE REQUIRED.

WALL MOUNTED LED SCONCE FIXTURE (EXTERIOR)

PENDANT UTILITY FIXTURE

LINEAR SUPPLY DIFFUSER

SUPPLY DIFFUSER 24" X 24"

RETURN/EXHAUST DIFFUSER 24" X 24"

**CEILING ACCESS PANEL** 

PARTITIONS TO STRUCTURE

RECESSED DROP DOWN PROJECTION SCREEN

CEILING MOUNTED PROJECTOR MOUNT, OFCI, FINAL LOCATION OF MOUNT TO BE COORDINATED

# **KEYNOTE LEGEND**

3.6 SECTIONAL ALUMINUM TRELLIS SYSTEM, PTD. 3.7 METAL PANEL SCREEN WALLS WITH CUSTOM

CUTOUT PATTERN, PTD. SEE 01/A-402 4.3 ALUMINUM PANEL SCREEN WALLS WITH CUSTOM CUTOUT PATTERN, PTD. SEE 01/A-402

## INTERIM REVIEW DOCUMENTS

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	ROOM FINISH SCHEDULE - LEVEL 1										
ROOM NO.	NAME	FLOOR	BASE	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL	CEILING	ROLLER SHADES	COMMENTS	
101	LOBBY	MT	ARB	-	-	-	PT	BV & PT			
102	FRONT DESK	MT	ARB	-	-	-	PT	BV & PT			
103	STORE	MT	ARB	-	-	-	PT	BV & PT			
104	OPEN WORK SPACE	MT	ARB	-	PT	PT	PT	BV & PT			
105	HALL	MT	ARB	PT	PT	PT	PT	ACP			
106	STORAGE	SC	RB	PT	PT	PT	PT	ACP			
107	SERVER ROOM	SC	RB	PT	PT	PT	PT	ACP			
108	CORRIDOR	MT	ARB	WC	WC	WC	WC	PT			
109	HALL 2	MT	ARB	PT	PT	PT	PT	PT			
110	TOILET ROOM 1	CT	СТ	CT	СТ	СТ	CT	PT			
111	TOILET ROOM 2	CT	СТ	CT	СТ	СТ	CT	PT			
112	TOILET ROOM 3	CT	СТ	CT	СТ	СТ	CT	PT			
113	JAN	SC	RB	PT	PT	PT	PT	ACP			
114	HALL 1	MT	ARB	PT	PT	PT	PT	PT			
115	ELECTRICAL CLOSET	SC	RB	PT	PT	PT	PT	PTS			
116	CATERING	SC	RB	PT	PT	PT	PT	ACP			
117	GALLERY & MP STORAGE	SC	RB	PT	PT	PT	PT	BV & PT			
118	MULTIPURPOSE ROOM	MT	ARB	PT	-	PT	-	BV & PT			
119	GALLERY DISPLAY AREA	MT	ARB	PT	PT	PT	PT	BV & PT			

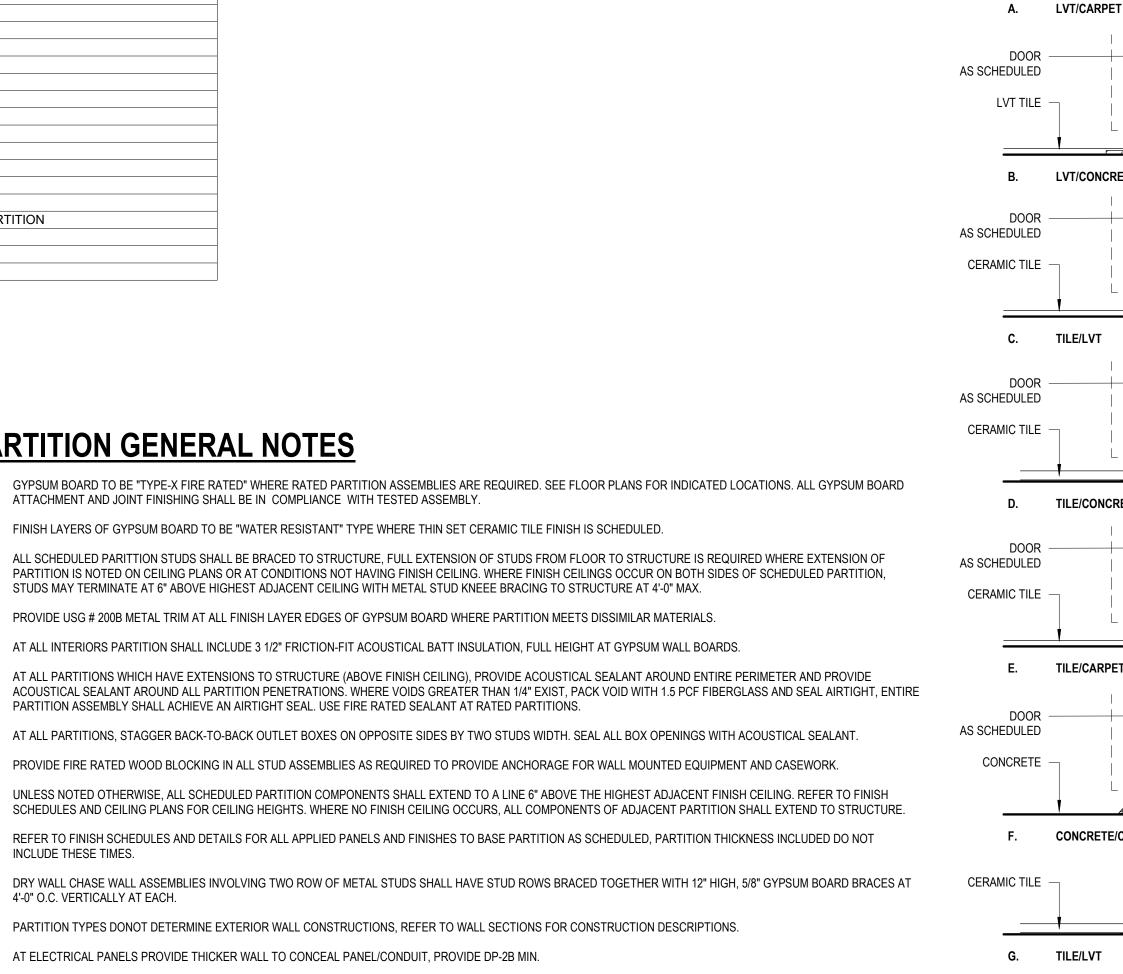
	DOOR SCHEDULE										
NUMBER	TYPE	WIDTH	HEIGHT	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	HEAD DTL	JAMB DTL	SILL DTL	REMARKS
101	(PR) A	6' - 0"	8' - 0"	ALUM./GLASS	PTD. DARK BRONZE						
102	(PR) A	6' - 0"	8' - 0"	ALUM./GLASS	PTD. DARK BRONZE						
103	(PR) A	6' - 0"	8' - 0"	ALUM./GLASS	PTD. DARK BRONZE						
104	(PR) A	6' - 0"	8' - 0"	ALUM./GLASS	PTD. DARK BRONZE						
105	(PR) A	5' - 10"	8' - 0"	ALUM./GLASS	PTD. DARK BRONZE						
106	В	3' - 0"	7' - 0"	WOOD/WD. PANEL	TRANS.	ALUM.	PTD. DARK BRONZE				
107	В	3' - 0"	7' - 0"	WOOD/WD. PANEL	TRANS.	ALUM.	PTD. DARK BRONZE				
108	С	3' - 0"	7' - 0"	WOOD/GLASS	TRANS.	ALUM.	PTD. DARK BRONZE				
109	В	3' - 0"	7' - 0"	WOOD/WD. PANEL	TRANS.	ALUM.	PTD. DARK BRONZE				
110	В	3' - 0"	7' - 0"	WOOD/WD. PANEL	TRANS.	ALUM.	PTD. DARK BRONZE				
111	В	3' - 0"	7' - 0"	WOOD/WD. PANEL	TRANS.	ALUM.	PTD. DARK BRONZE				
112	В	3' - 0"	7' - 0"	WOOD/WD. PANEL	TRANS.	ALUM.	PTD. DARK BRONZE				
113	В	3' - 0"	7' - 0"	WOOD/WD. PANEL	TRANS.	ALUM.	PTD. DARK BRONZE				
114	(PR) A	20' - 10 3/4"	14' - 0"	ALUM./GLASS	PTD. DARK BRONZE	ALUM.	PTD. DARK BRONZE				PART OF FOLDING PARTITION
115	В	3' - 0"	7' - 0"	WOOD/WD. PANEL	TRANS.	ALUM.	PTD. DARK BRONZE				
116	В	3' - 0"	7' - 0"	WOOD/WD. PANEL	TRANS.	ALUM.	PTD. DARK BRONZE				
117	В	3' - 0"	7' - 0"	WOOD/WD. PANEL	TRANS.	ALUM.	PTD. DARK BRONZE				

INSULATION LEGEND							
TYPE	DESCRIPTION	SPEC. SECTION					
INSUL. TYPE 1	RIGID BOARD INSULATION - R 30 (ROOF)	075100					
INSUL. TYPE 2	RIGID BOARD INSULATION - R 11 ( EXTERIOR MASONRY WALLS)	072100					
INSUL. TYPE 3	NOT USED	072100					
INSUL. TYPE 4	BATT INSULATION - R 19 - FACED (STUDS)	072100					
INSUL. TYPE 5	SOUND BATT INSULATION - 3" THICK (INT. PARTITIONS)	072100					
INSUL. TYPE 6	NOT USED	072100					
INSUL. TYPE 7	NOT USED	078413					
INSUL. TYPE 8	NOT USED	072100					

	MOUNTING HEIGHT SCHEDULE	
DESCRIPTION	MOUNTING HEIGHT	COMMENT
WATER CLOSET STANDARD	1' - 3" TO RIM	FLOOR OR WALL
WATER CLOSET HC ADULT	1' - 5" TO TOP OF SEAT	FLOOR OR WALL
URINAL STANDARD	2' - 0" TO RIM	
URINAL HC	1' - 5" TO RIM	
WALL HUNG LAVATORY STANDARD	2' - 10" TO RIM	
WALL HUNG LAVATORY HC	2' - 10" TO RIM	2' - 5" MIN. CLEAR UNDER APRON
ELECTRIC DRINKING FOUNTAIN	3' - 4" TO SPOUT	
ELECTRIC DRINKING FOUNTAIN HCP	3' - 0" TO SPOUT	
SWITCHES	4' - 0" TO CENTER	
WALL TELEPHONE OUTLETS	4' - 0" TO CENTER	
RECEPTACLES/PHONE OUTLETS	18" TO CENTER	
ABOVE COUNTER OUTLETS	6" ABOVE COUNTER	OUTLETS MOUNTED HORIZ.
PAY TELEPHONES	4' - 6" TO COIN SLOT	
THERMOSTATS	4' - 0" TO CENTER	AT OPERABLE TYPE
ALARM PULL STATIONS	4' - 0" TO CENTER	
EXTINGUISHER CABINETS	4' - 6" TO TOP OF EXT. CAB	
TOILET ACCESSORIES	REFER TO SCHED.	
STAIR HANDRAILS	3' - 0" ABOVE NOSING	ABOVE NOSING AT STAIRS
STAIR GUARDRAILS	3' - 6" TO TOP	
LAVATORY COUNTERS	2' - 10" TO TOP	2' - 5" MIN. CLEAR UNDER APRON

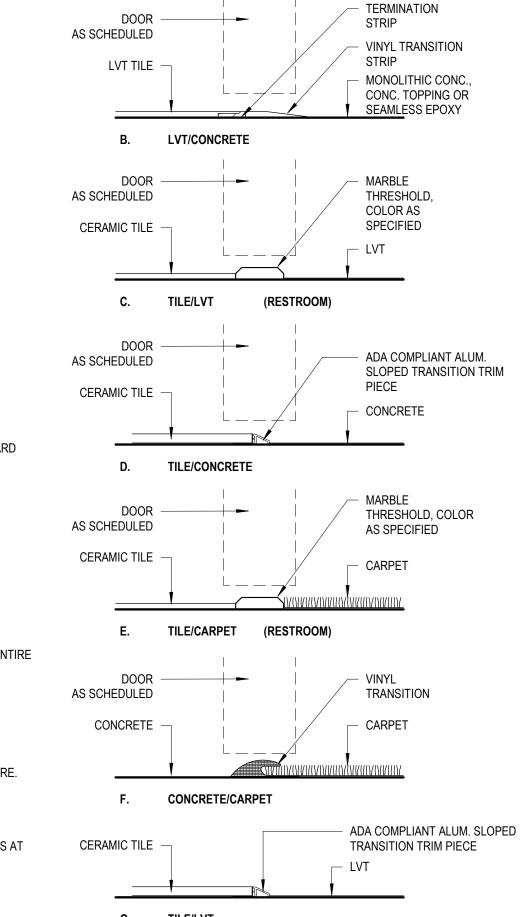
	R FINISH LEGEND (REFER TO SPEC SECT. 019000	,	2.	FINISH LAYERS OF GYPSUM BOARD TO BE "WATER RESISTANT" TYPE WHERE THIN SET CERAMIC TILE FINISH IS SCHEDULED.
MARK	DESCRIPTION	SPEC. SEC.	3.	ALL SCHEDULED PARITTION STUDS SHALL BE BRACED TO STRUCTURE, FULL EXTENSION OF STUDS FROM FLOOR TO STRUCTURE IS REQUIRI PARTITION IS NOTED ON CEILING PLANS OR AT CONDITIONS NOT HAVING FINISH CEILING. WHERE FINISH CEILINGS OCCUR ON BOTH SIDES O
FLOOR				STUDS MAY TERMINATE AT 6" ABOVE HIGHEST ADJACENT CEILING WITH METAL STUD KNEEE BRACING TO STRUCTURE AT 4'-0" MAX.
MT	8"X8" CEMENT TILE			OF ODD WATER TEACHER TO THE OFFICE OF THE OF
CT	12"X24" CERAMIC TILE		4.	PROVIDE USG # 200B METAL TRIM AT ALL FINISH LAYER EDGES OF GYPSUM BOARD WHERE PARTITION MEETS DISSIMILAR MATERIALS.
SC	SEALED CONCRETE			
CPT	MODULAR CARPET TILE		5.	AT ALL INTERIORS PARTITION SHALL INCLUDE 3 1/2" FRICTION-FIT ACOUSTICAL BATT INSULATION, FULL HEIGHT AT GYPSUM WALL BOARDS.
/CT	12"X12" VYNIL COMPOSITION TILE			
			6.	AT ALL PARTITIONS WHICH HAVE EXTENSIONS TO STRUCTURE (ABOVE FINISH CEILING), PROVIDE ACOUSTICAL SEALANT AROUND ENTIRE PE
				ACOUSTICAL SEALANT AROUND ALL PARTITION PENETRATIONS. WHERE VOIDS GREATER THAN 1/4" EXIST, PACK VOID WITH 1.5 PCF FIBERGL/
				PARTITION ASSEMBLY SHALL ACHIEVE AN AIRTIGHT SEAL. USE FIRE RATED SEALANT AT RATED PARTITIONS.
WALL			7.	AT ALL PARTITIONS, STAGGER BACK-TO-BACK OUTLET BOXES ON OPPOSITE SIDES BY TWO STUDS WIDTH. SEAL ALL BOX OPENINGS WITH AC
PT	PAINTED GYPSUM BOARD		7.	AT ALL PARTITIONS, STAGGER BACK-TO-BACK OUTLET BOXES ON OFFOSITE SIDES BY TWO STODS WIDTH. SEAL ALL BOX OFENINGS WITH AC
CT	12"X24" CERAMIC TILE		8.	PROVIDE FIRE RATED WOOD BLOCKING IN ALL STUD ASSEMBLIES AS REQUIRED TO PROVIDE ANCHORAGE FOR WALL MOUNTED EQUIPMENT
NC	WALL COVERING		0.	FROUDE LINE IN TED WOOD BEOCKING IN ALE STOD ASSEMBLIES AS REQUIRED TO FROUDE ANCHORAGE FOR WALL MOUNTED EQUIFIMENT
			9.	UNLESS NOTED OTHERWISE, ALL SCHEDULED PARTITION COMPONENTS SHALL EXTEND TO A LINE 6" ABOVE THE HIGHEST ADJACENT FINISH
			•	SCHEDULES AND CEILING PLANS FOR CEILING HEIGHTS. WHERE NO FINISH CEILING OCCURS, ALL COMPONENTS OF ADJACENT PARTITION SI
BASE			10.	REFER TO FINISH SCHEDULES AND DETAILS FOR ALL APPLIED PANELS AND FINISHES TO BASE PARTITION AS SCHEDULED, PARTITION THICKN
RB	4" RESILIENT BASE			INCLUDE THESE TIMES.
CB	4" CARPET BASE			
CTB	4" CEMENT BASE		11.	DRY WALL CHASE WALL ASSEMBLIES INVOLVING TWO ROW OF METAL STUDS SHALL HAVE STUD ROWS BRACED TOGETHER WITH 12" HIGH, 5
ARB	4" ALUMINUM REVEAL BASE			4'-0" O.C. VERTICALLY AT EACH.
			12.	PARTITION TYPES DONOT DETERMINE EXTERIOR WALL CONSTRUCTIONS, REFER TO WALL SECTIONS FOR CONSTRUCTION DESCRIPTIONS.
CEILING			40	AT ELECTRICAL DANIELO DECLUDE TUROVER MALL TO CONOCAL DANIEL/CONDUIT DECLUDE DE CELAVIDA
3V	EXPOSED BRICK BOVEDA		13.	AT ELECTRICAL PANELS PROVIDE THICKER WALL TO CONCEAL PANEL/CONDUIT, PROVIDE DP-2B MIN.
PT	PAINT ON GYPSUM BOARD		4.4	FLOOR TRACK TO BE 400A LINE FOR MOTER OTHERWISE
PTS	PAINT ON EXPOSED STRUCTURE		14.	FLOOR TRACK TO BE 18GA. UNLESS NOTED OTHERWISE.
ACP	2'X2' ACOUSTICAL PANEL		15.	PROVIDE METAL BACK-UP PLATE IN LIEU OF WOOD BLOCKING AT WALL MOUNTED CASEWORK, WALL MOUNTED EQUIPMENT, ETC.
			15.	PROVIDE METAL DAGN-OF PLATE IN LIEU OF WOOD BLOCKING AT WALL MOUNTED GASEWORK, WALL MOUNTED EQUIPMENT, ETC.

TYPE MARK WIDTH STUD SIZE GWR-SIDE 1 GWR-SIDE 2 GALIGE PATING LII NUMBER PEMARKS											
I TPE WARK	WIDTH	STUD SIZE	GWB-SIDE 1	GWB-SIDE 2	GAUGE	RATING	UL NUMBER	REMARKS			
P1	1 1/2"	7/8"	5/8"		22						
P2	2 1/8"	7/8"	(2)5/8"		22						
P3	3 1/8"	2 1/2"	5/8"		22						
P4	4 1/4"	3 5/8"	5/8"		22						
P5	6 5/8"	6"	5/8"		22						
P6	4 7/8"	3 5/8"	(2)5/8"		22						
P7	7 1/4"	6"	(2)5/8"		22						
P8	4 7/8"	3 5/8"	5/8"	5/8"	22	1 HR	U419	EXTENT OF RATING INDICATED ON PLANS			
P9	7 1/4"	6"	5/8"	5/8"	22	1 HR	U419	EXTENT OF RATING INDICATED ON PLANS			
P10	5 1/2"	3 5/8"	(2)5/8"	5/8"	25	1 HR	U419	EXTENT OF RATING INDICATED ON PLANS.			
P11	7 7/8"	6"	(2)5/8"	5/8"	22	1 HR	U419	EXTENT OF RATING INDICATED ON PLANS			
P12	6 1/8"	3 5/8"	(2)5/8"	(2)5/8"	22	2 HR	U419	EXTENT OF RATING INDICATED ON PLANS			



AS SCHEDULED

LVT TILE



TRANSITION

# **GLASS SCHEDULE**

<u> </u>	<u> </u>	
TYPE	DESCRIPTION	
GL-1	1" INSULATED GLASS UNIT SOLAR BAN 70, CLEAR	
GL-2	1" INSULATED GLASS UNIT SOLAR BAN 70, CLEAR, TEMPERED	
GL-3	1" INSULATED SPANDREL GLASS W/ CUSTOM COLOR AS SELECTED BY ARCHITECT.	
GL-4	1/4" CLEAR TEMPERED GLASS	
GL-5	1/4" MIRROR GLASS	
GL-6	1/4" ONE WAY GLASS	
GL-7	BULLET RESISTANT GLASS	
GL-8	1/2" CLEAR TEMPERED GLASS	

#### **GLASS NOTES:**

- USE GLASS TYPE GL-1 AT ALL EXTERIOR FIXED GLASS WINDOWS & VISION GLASS WINDOWS U.N.O. USE GLASS TYPE GL-4 AT ALL INTERIOR FIXED GLASS WINDOWS & DOOR AS REQUIRED BY CODE, U.N.O.
- USE GLASS TYPE GL-5 AT ALL TOILET ROOM MIRRORS.
- USE GLASS TYPE GL-2 AT EXTERIOR WINDOWS AS REQUIRED PER CODE. USE GLASS TYPE GL-3 AT ALL EXTERIOR SPANDREL GLASS WINDOWS U.N.O.
- EXTERIOR GLASS TO MEET WIND RATING. SEE INTERIOR ELEVATIONS FOR ALL INTERIOR GLASS U.N.O.

# **WINDOW NOTES**

ALL EXTERIOR WINDOWS TO BE EXTRUDED ALUMINUM FRAME WITH KYNAR FINISH WITH DARK BRONZE COLOR AS SPECIFIED.

## **ROLLER SHADE SCHEDULE**

MARK	DESCRIPTION
RS-1	SURFACE-MOUNTED SINGLE MANUAL ROLLER SHADE
RS-2	CEILING-RECESSED/CEILING -MOUNTED SINGLE MOTORIZED ROLLER SHADE
RS-3	SURFACE-MOUNTED DOUBLE MANUAL ROLLER SHADE & BLACK OUT ROLLER SHADE

**PARTITION GENERAL NOTES** 

ATTACHMENT AND JOINT FINISHING SHALL BE IN COMPLIANCE WITH TESTED ASSEMBLY.

PROVIDE FIRE RATED WOOD BLOCKING IN ALL STUD ASSEMBLIES AS REQUIRED TO PROVIDE ANCHORAGE FOR WALL MOUNTED EQUIPMENT AND CASEWORK.

#### **ROLLER SHADE NOTES:**

- NO INTERIOR WINDOW OTHER THAN MULTI-PURPOSE 118 WILL RECEIVE ROLLER SHADES U.N.O.
- ALL NEW EXTERIOR WINDOWS TO RECEIVE "RS-1" ROLLER SHADES
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION ABOUT ROLLER SHADES. ALL ROLLER SHADE ASSEMBLIES SHALL BE PROVIDED WITH DARK BRONZE ALUMINUM FASCIA TRIM.
- PROVIDE ONE ROLLER SHADE SEGMENT TO SPAN ENTIRE ROOM U.N.O.
- WHERE MULTIPLE SEGMENTS ARE REQUIRED, ALIGN ROLLER SHADE SEGMENTS WITH CENTER OF MULLION.

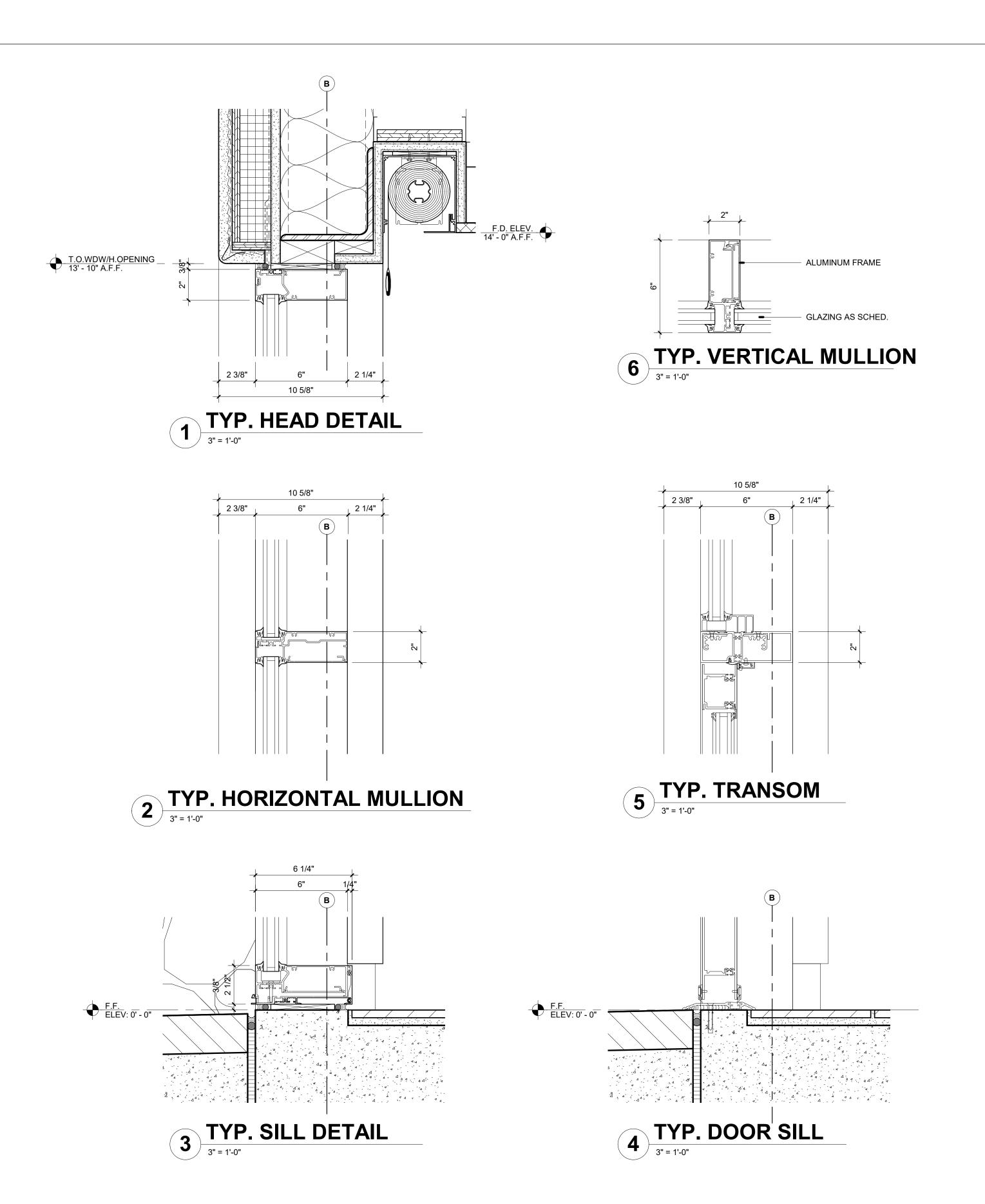
FLOOR TRANSITION DETAILS

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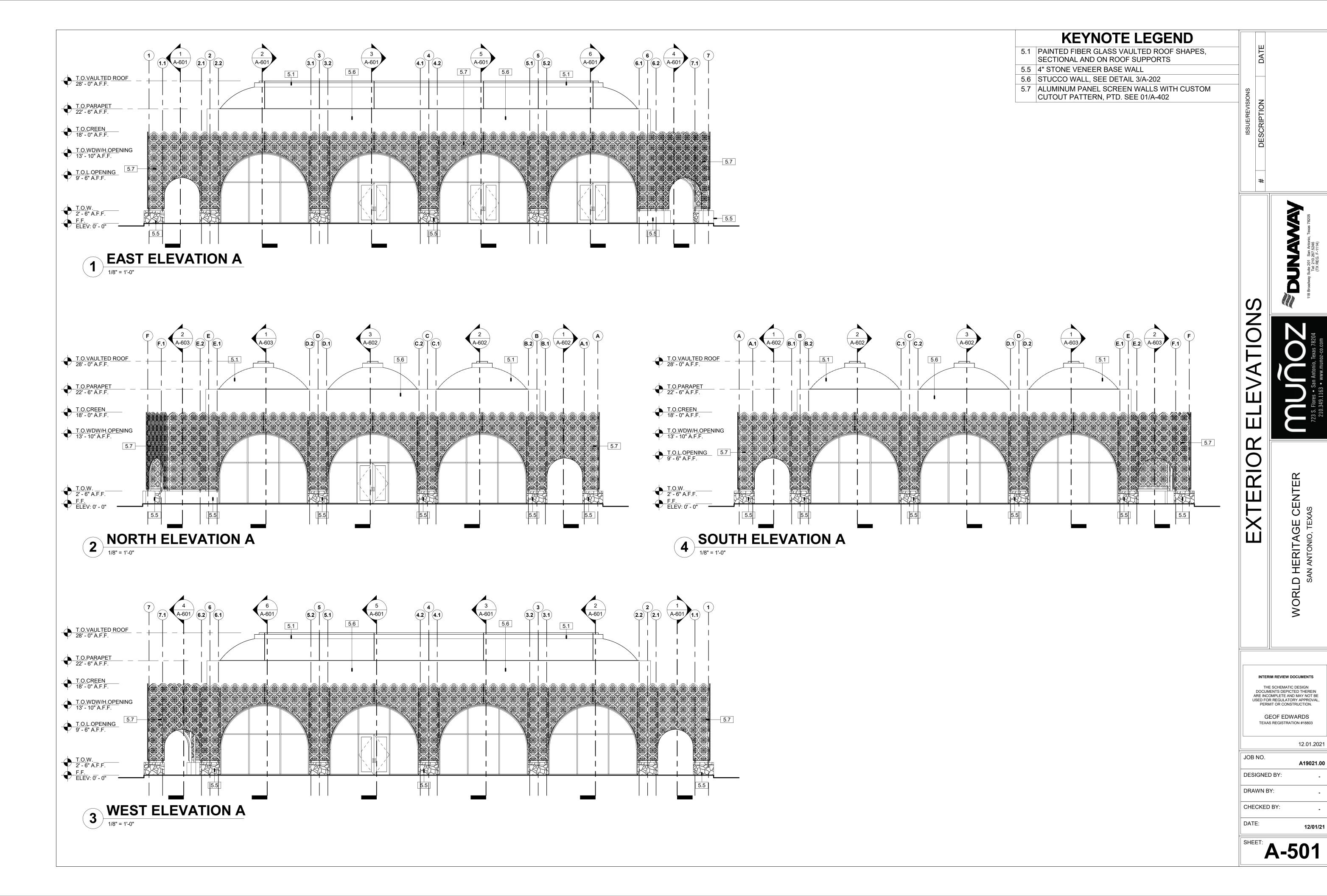
WINDOW & DOOR DETAILS

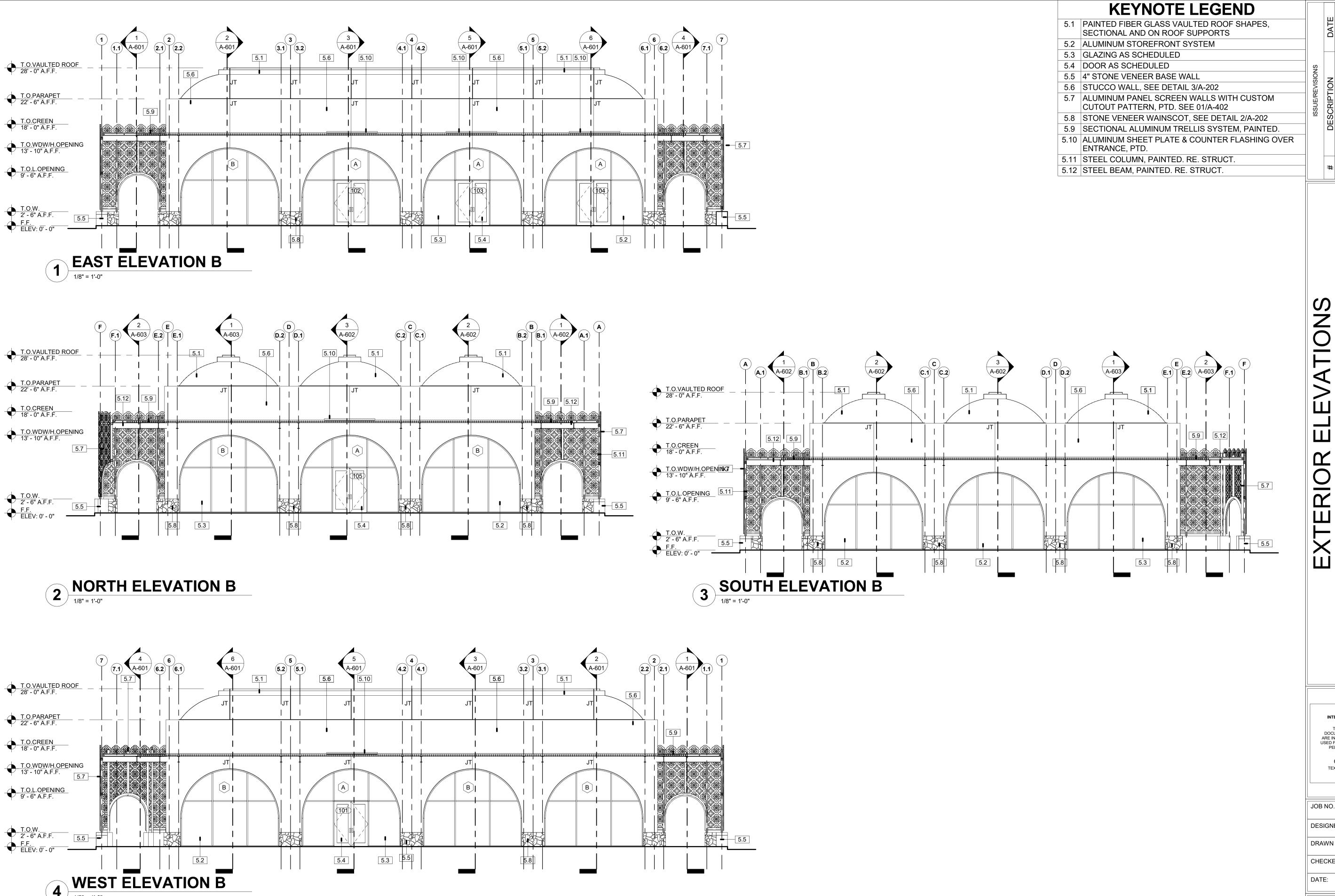
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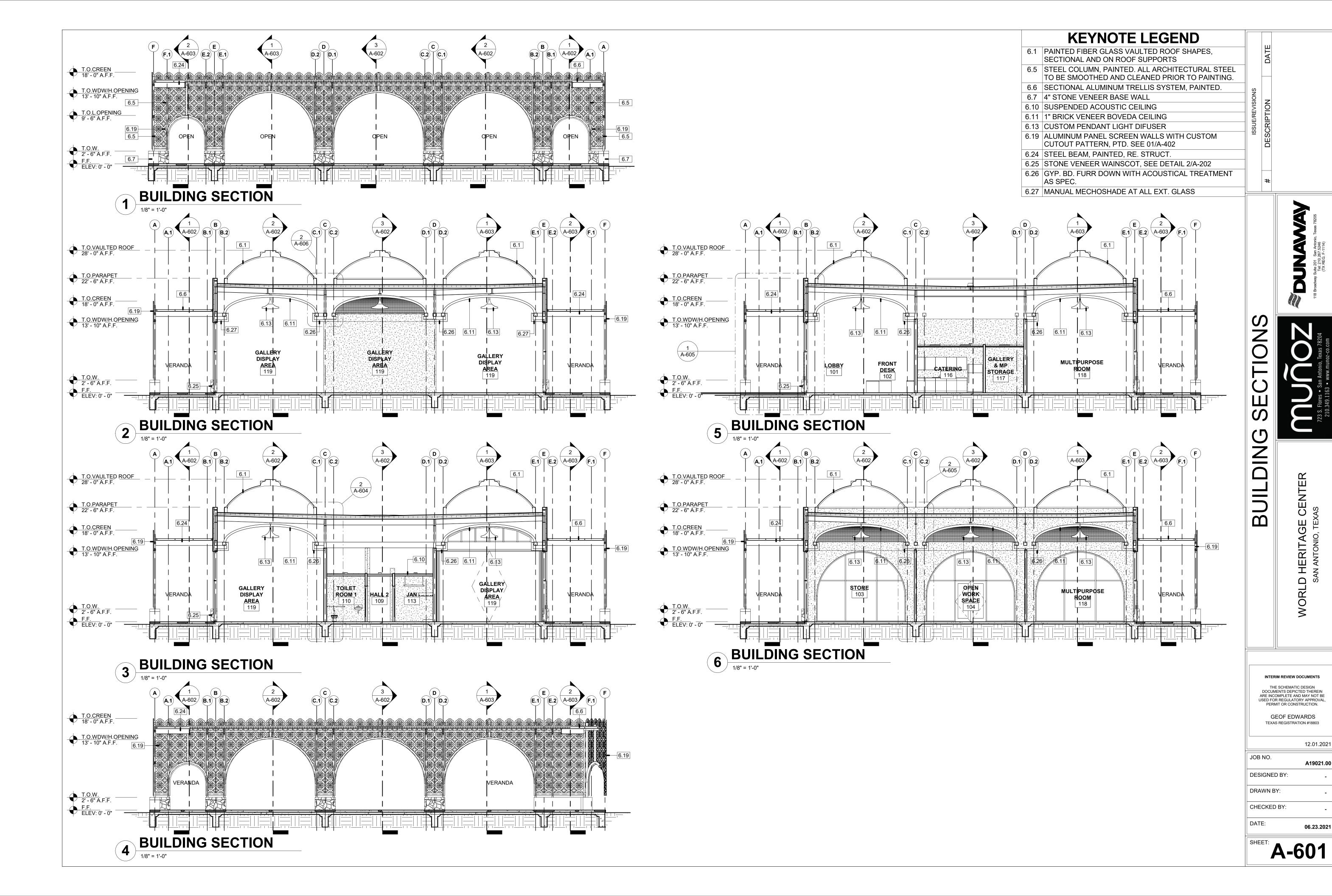
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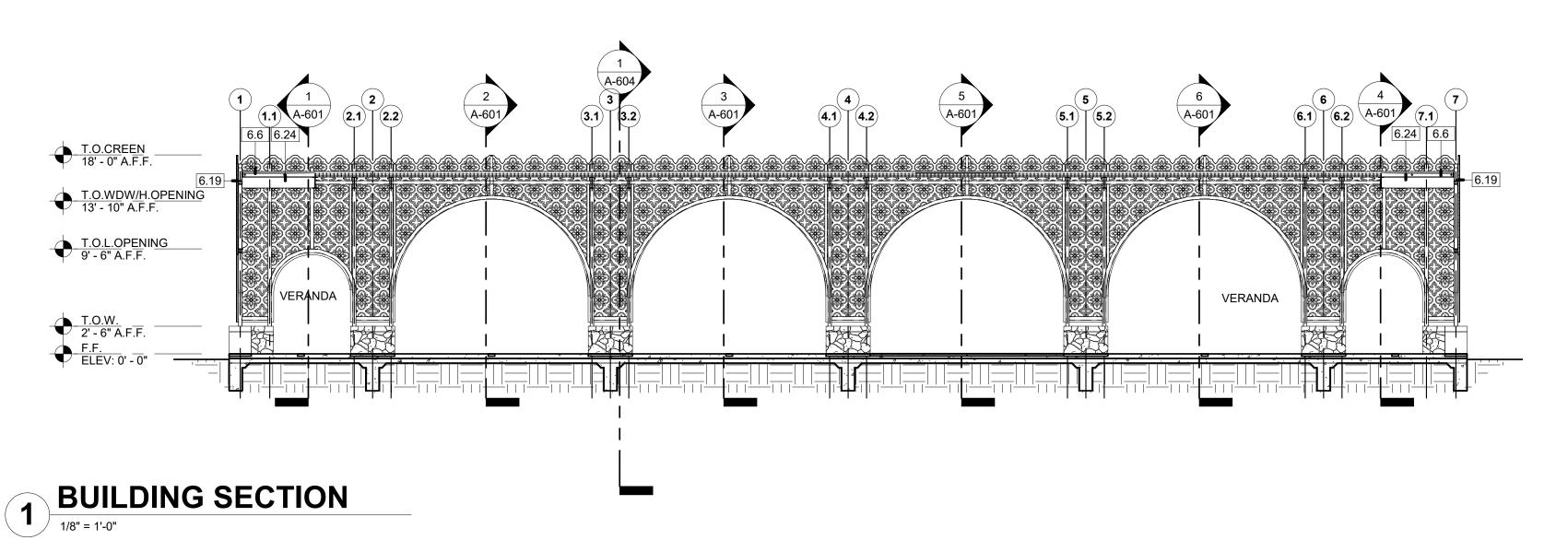
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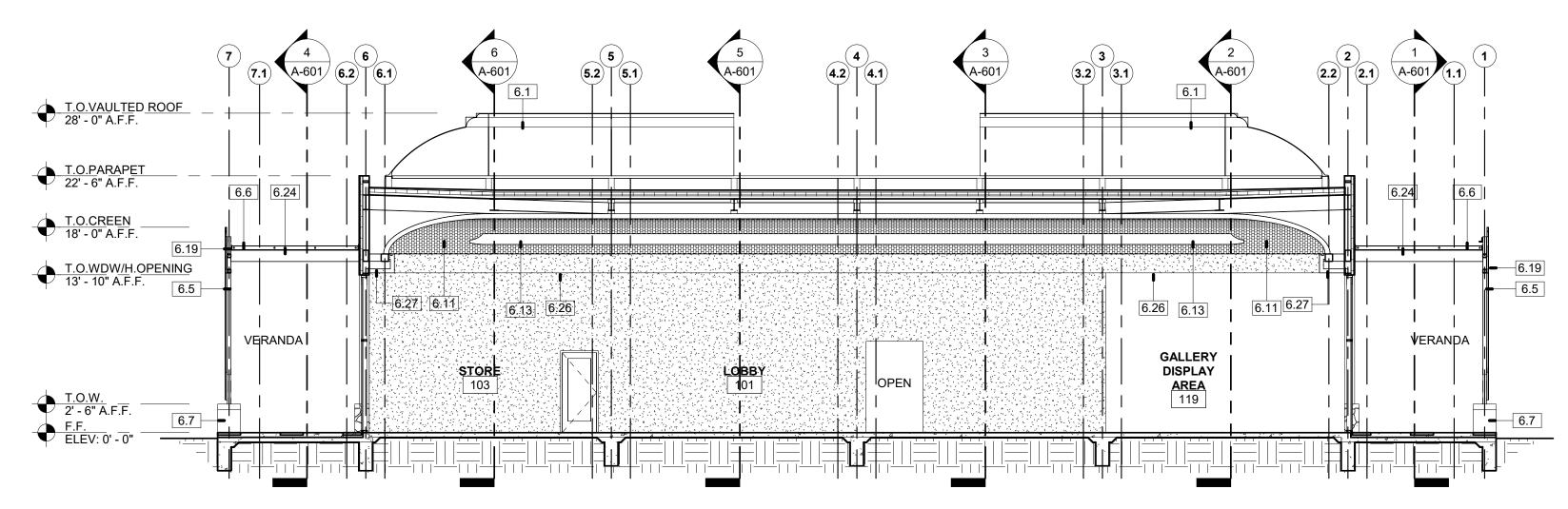
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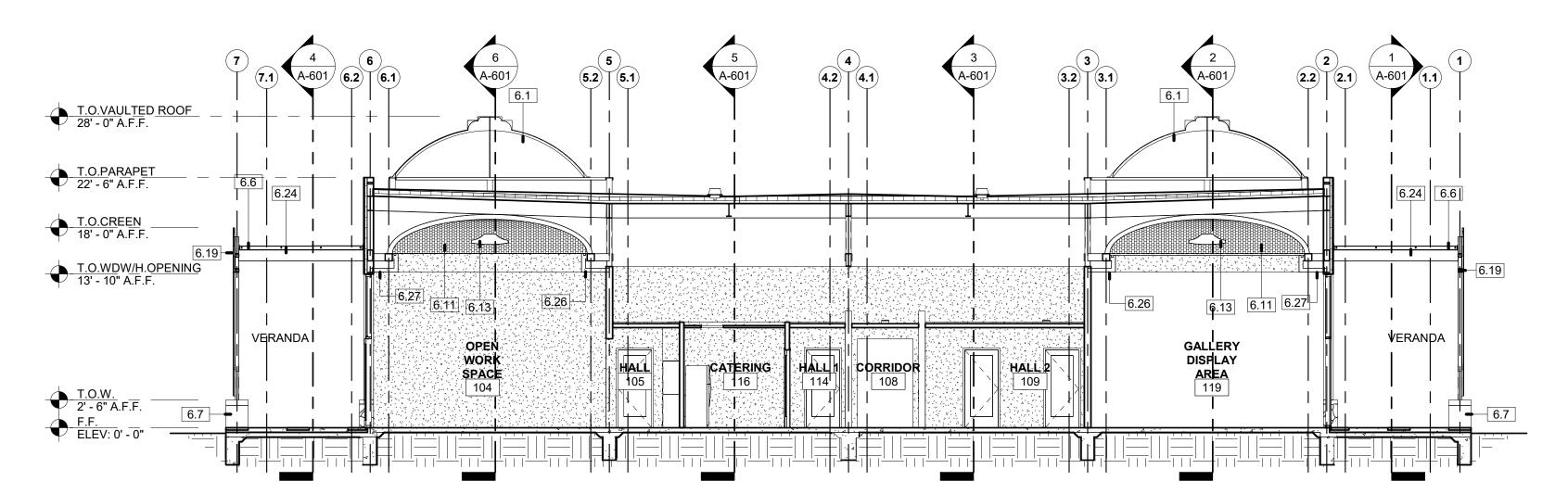
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# **BUILDING SECTION**1/8" = 1'-0"



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

**KEYNOTE LEGEND** 

6.1 PAINTED FIBER GLASS VAULTED ROOF SHAPES, SECTIONAL AND ON ROOF SUPPORTS

6.5 STEEL COLUMN, PAINTED. ALL ARCHITECTURAL STEEL TO BE SMOOTHED AND CLEANED PRIOR TO PAINTING.

6.6 SECTIONAL ALUMINUM TRELLIS SYSTEM, PAINTED.

6.7 4" STONE VENEER BASE WALL

6.11 1" BRICK VENEER BOVEDA CEILING

6.13 CUSTOM PENDANT LIGHT DIFUSER

6.19 ALUMINUM PANEL SCREEN WALLS WITH CUSTOM CUTOUT PATTERN, PTD. SEE 01/A-402

6.24 STEEL BEAM, PAINTED, RE. STRUCT.

6.26 GYP. BD. FURR DOWN WITH ACOUSTICAL TREATMENT AS SPEC.

6.27 MANUAL MECHOSHADE AT ALL EXT. GLASS

DESCRIPTION





WORLD HERITAGE CENTER SAN ANTONIO, TEXAS

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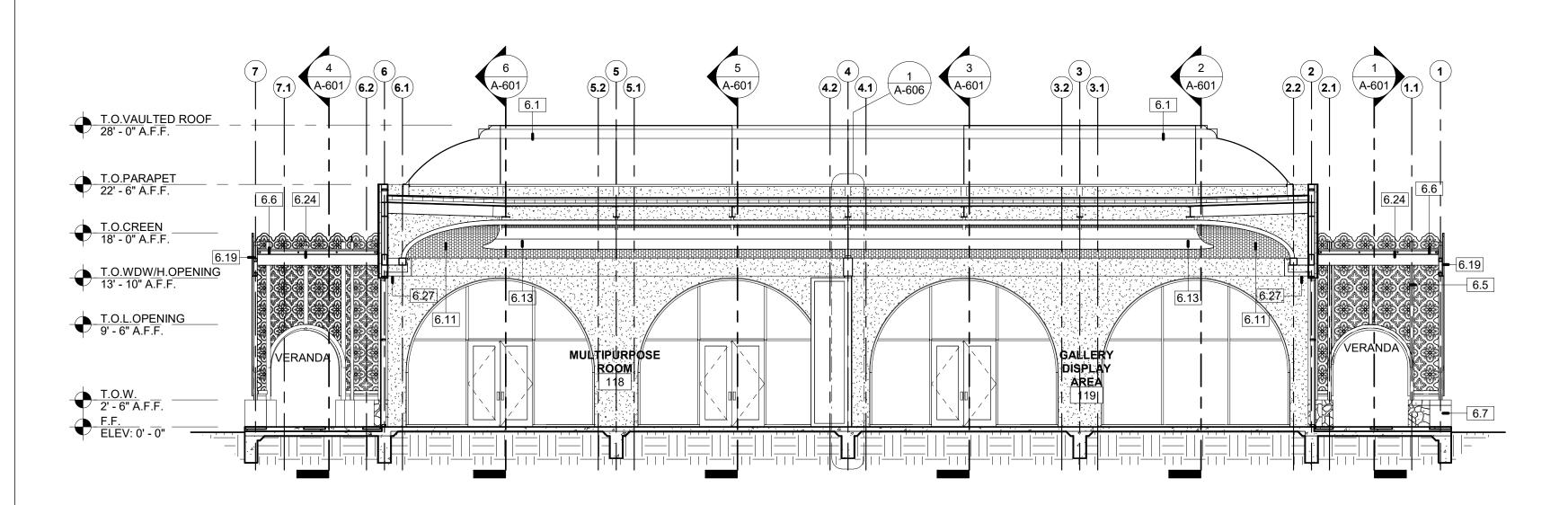
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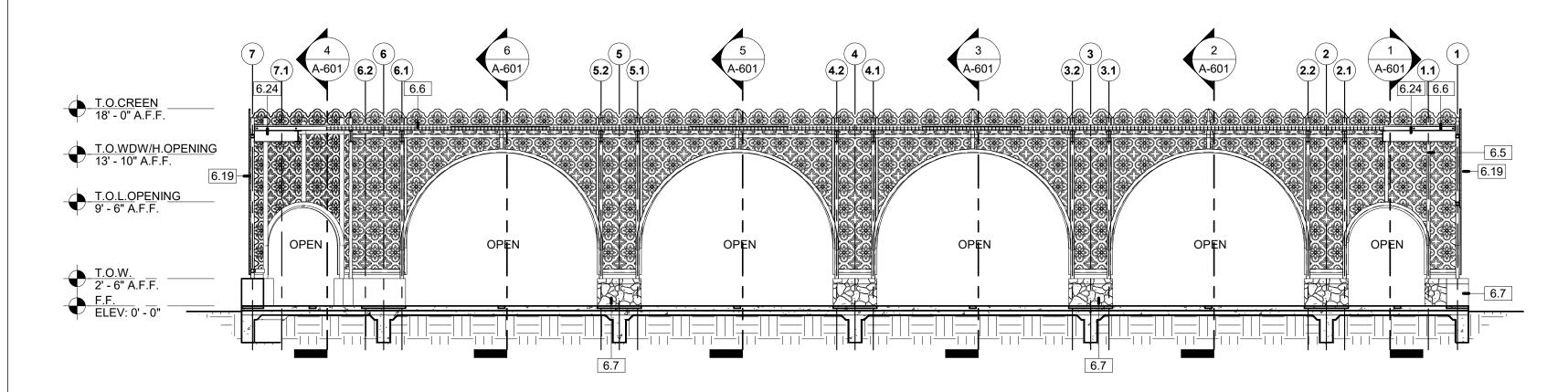
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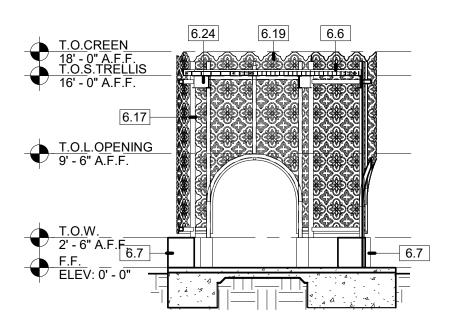
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# 1 BUILDING SECTION



# 2 BUILDING SECTION 1/8" = 1'-0"



# 3 BUILDING SECTION 1/8" = 1'-0"

**KEYNOTE LEGEND** 

6.1 PAINTED FIBER GLASS VAULTED ROOF SHAPES, SECTIONAL AND ON ROOF SUPPORTS

6.5 STEEL COLUMN, PAINTED. ALL ARCHITECTURAL STEEL TO BE SMOOTHED AND CLEANED PRIOR TO PAINTING.

6.6 SECTIONAL ALUMINUM TRELLIS SYSTEM, PAINTED.

6.7 4" STONE VENEER BASE WALL

6.11 1" BRICK VENEER BOVEDA CEILING

6.13 CUSTOM PENDANT LIGHT DIFUSER

6.17 STEEL STRUCTURE - REF. TO STRUCT.

6.19 ALUMINUM PANEL SCREEN WALLS WITH CUSTOM CUTOUT PATTERN, PTD. SEE 01/A-402

6.24 STEEL BEAM, PAINTED, RE. STRUCT.

6.27 MANUAL MECHOSHADE AT ALL EXT. GLASS

OF SHAPES,

DAT

ISSUE/REVISIONS

Tel: 210.267.5346 Tel: 210.267.5346



BUILDING SEC

WORLD HERITAGE SAN ANTONIO, TEX

INTERIM REVIEW DOCUMENTS

THE SCHEMATIC DESIGN
DOCUMENTS DEPICTED THEREIN
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USED FOR REGULATORY APPROVAL,
PERMIT OR CONSTRUCTION.

GEOF EDWARDS
TEXAS REGISTRATION #18803

12.01.2021

JOB NO.

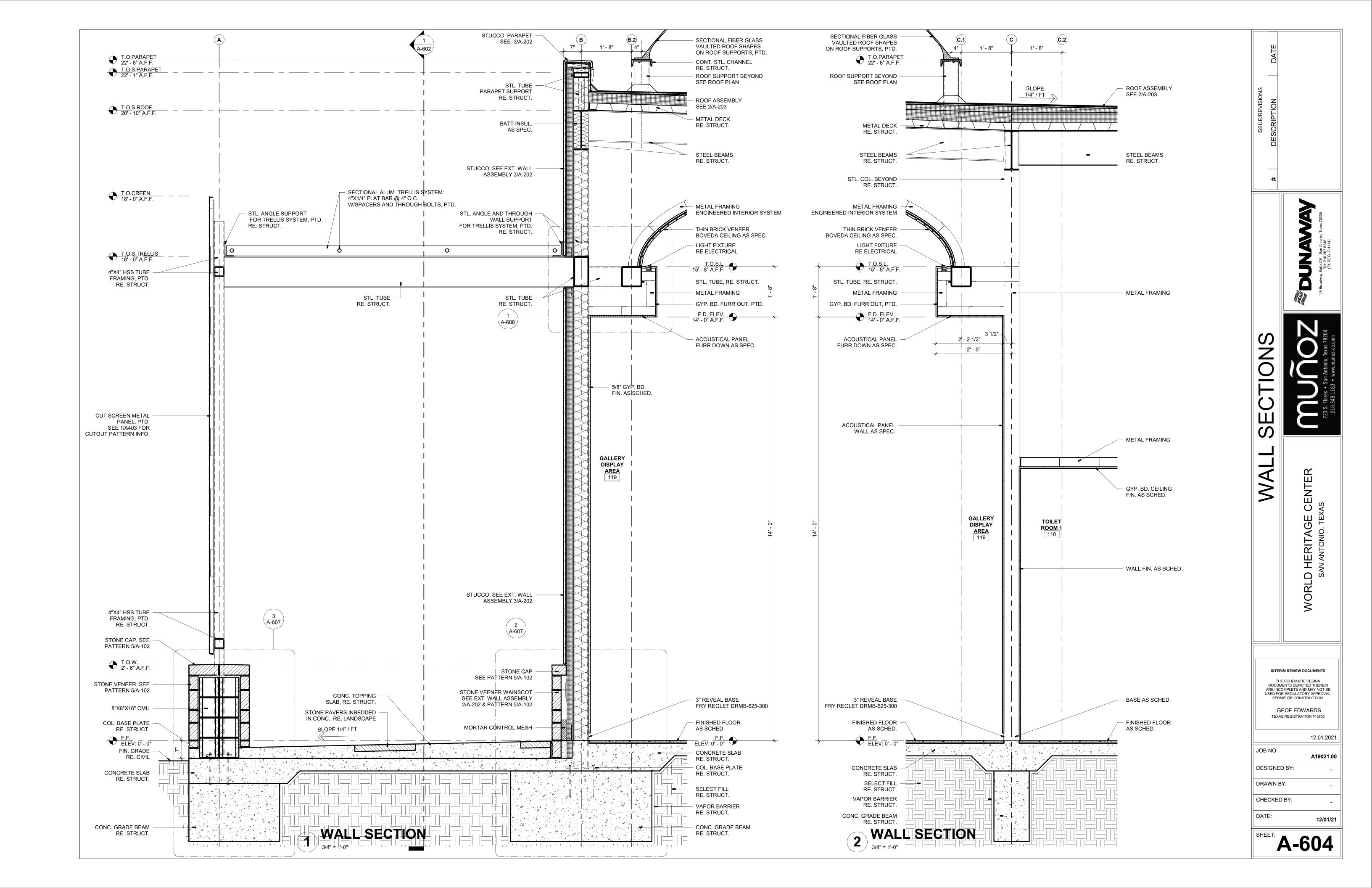
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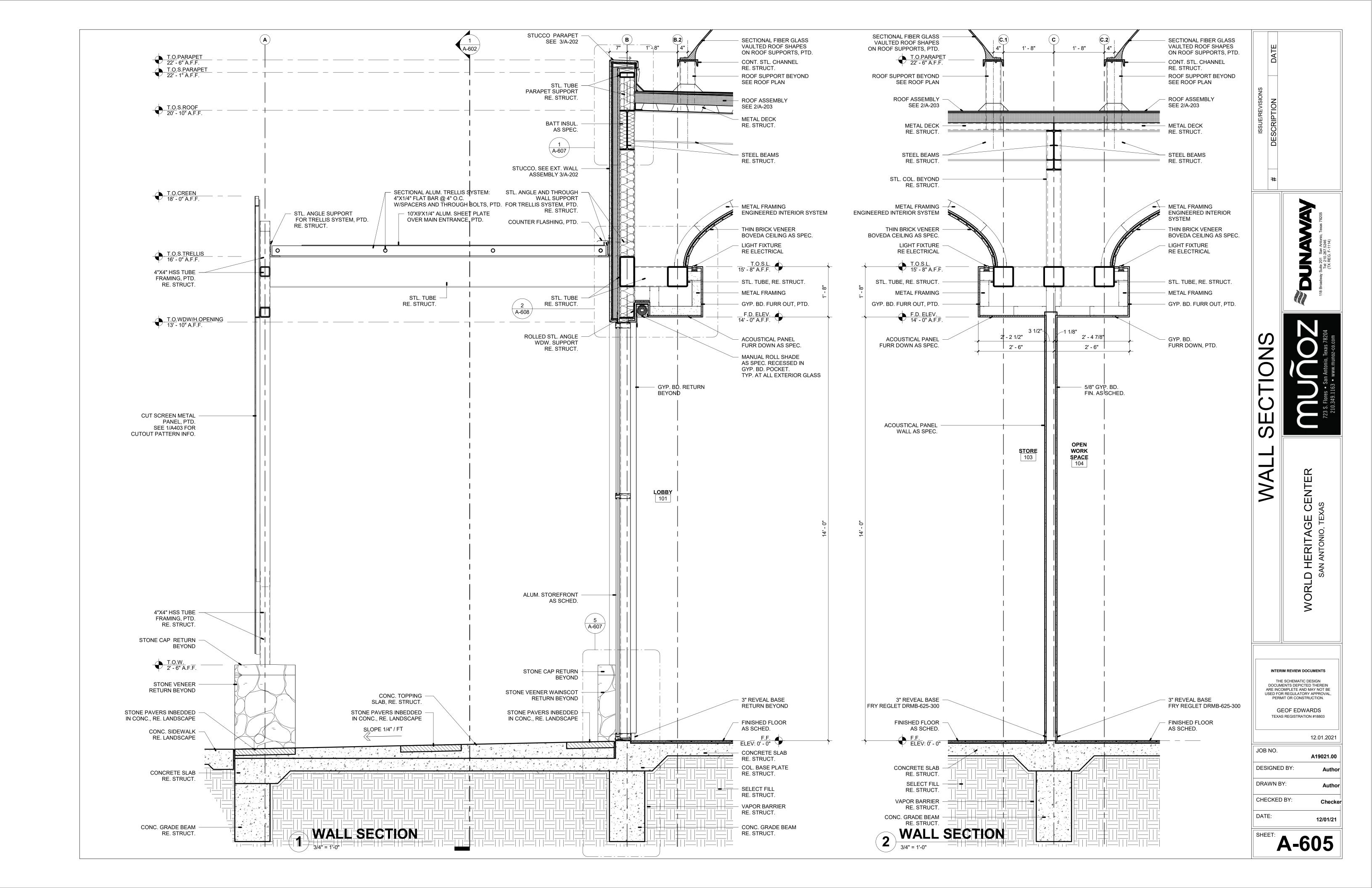
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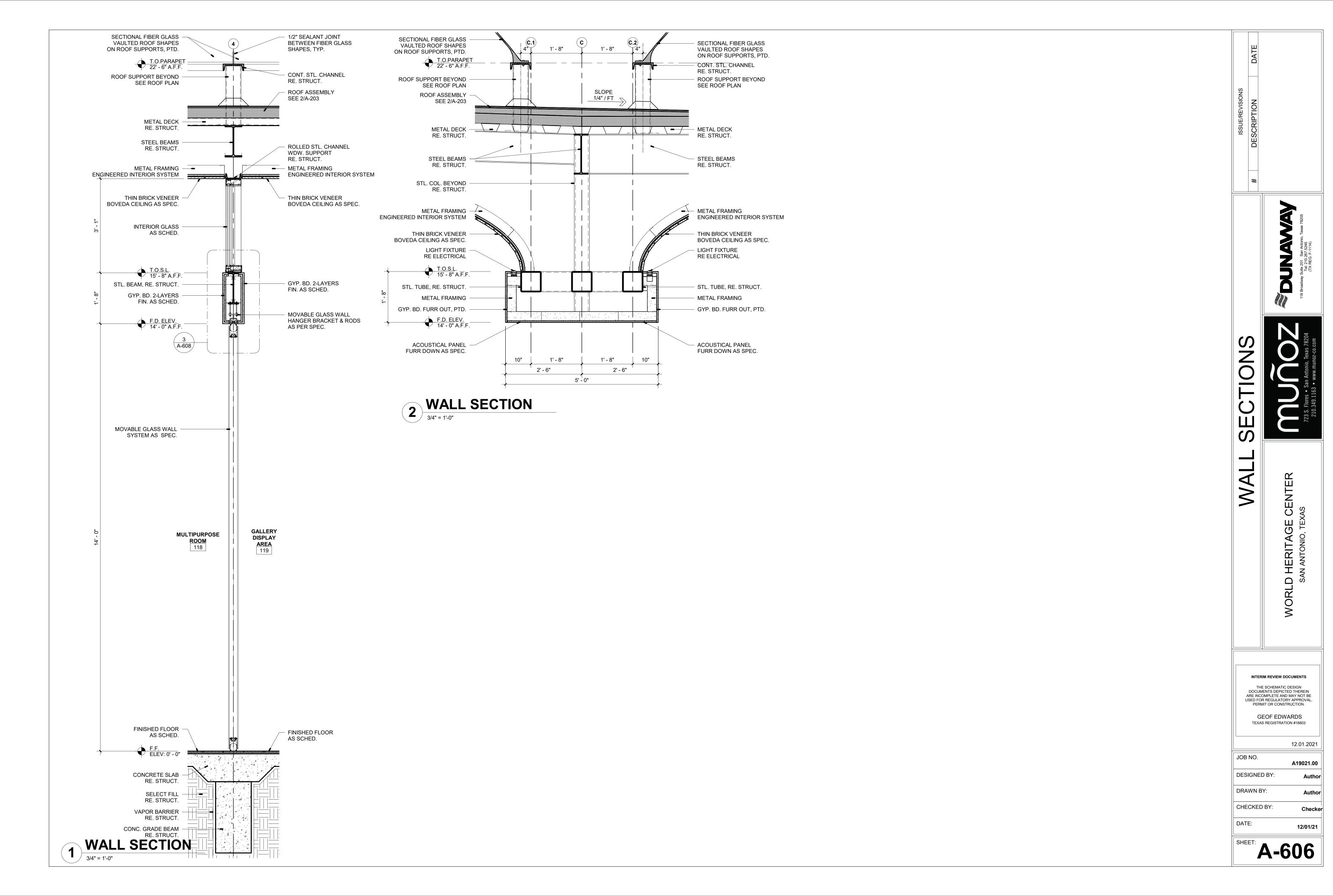
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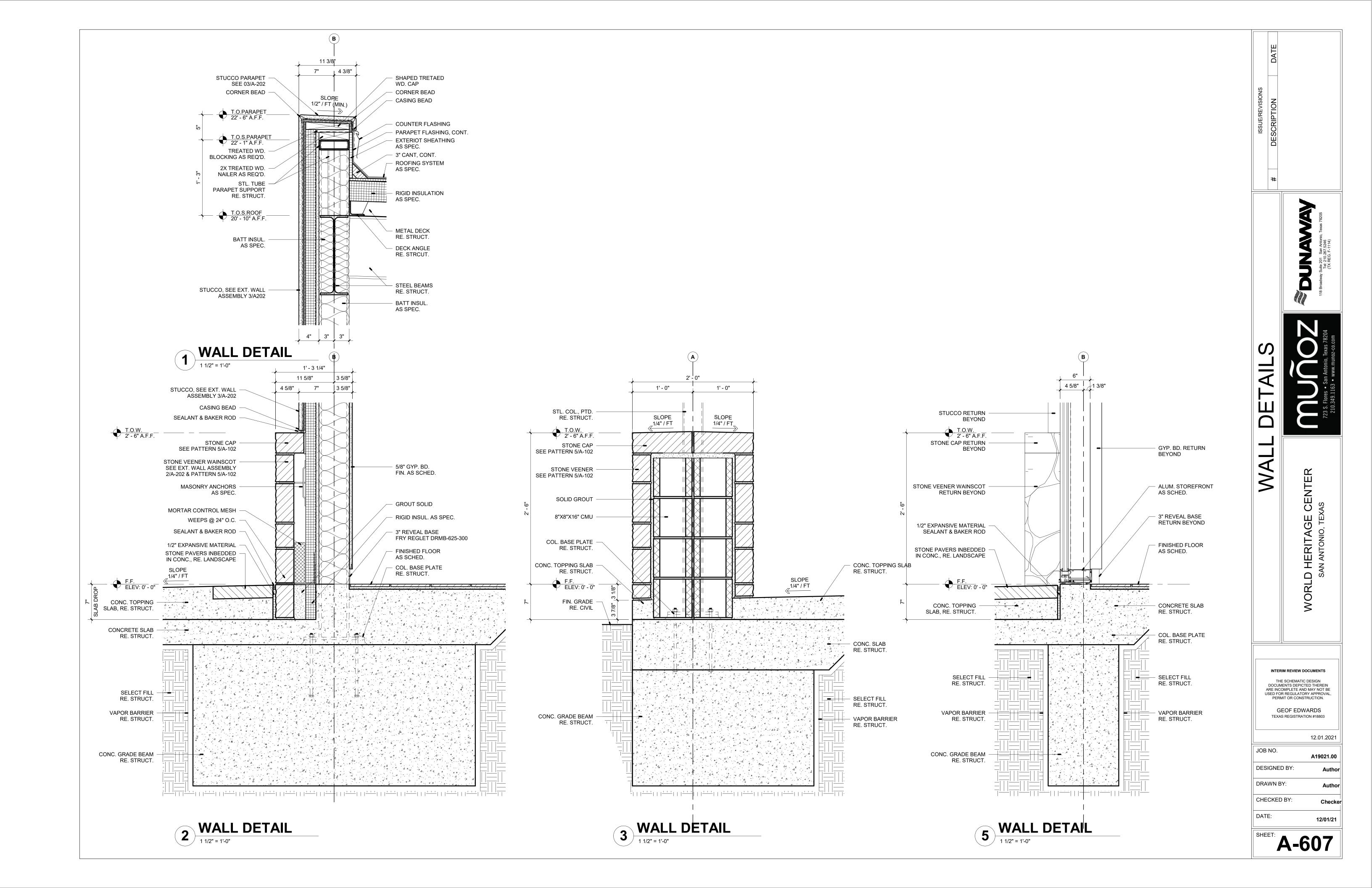
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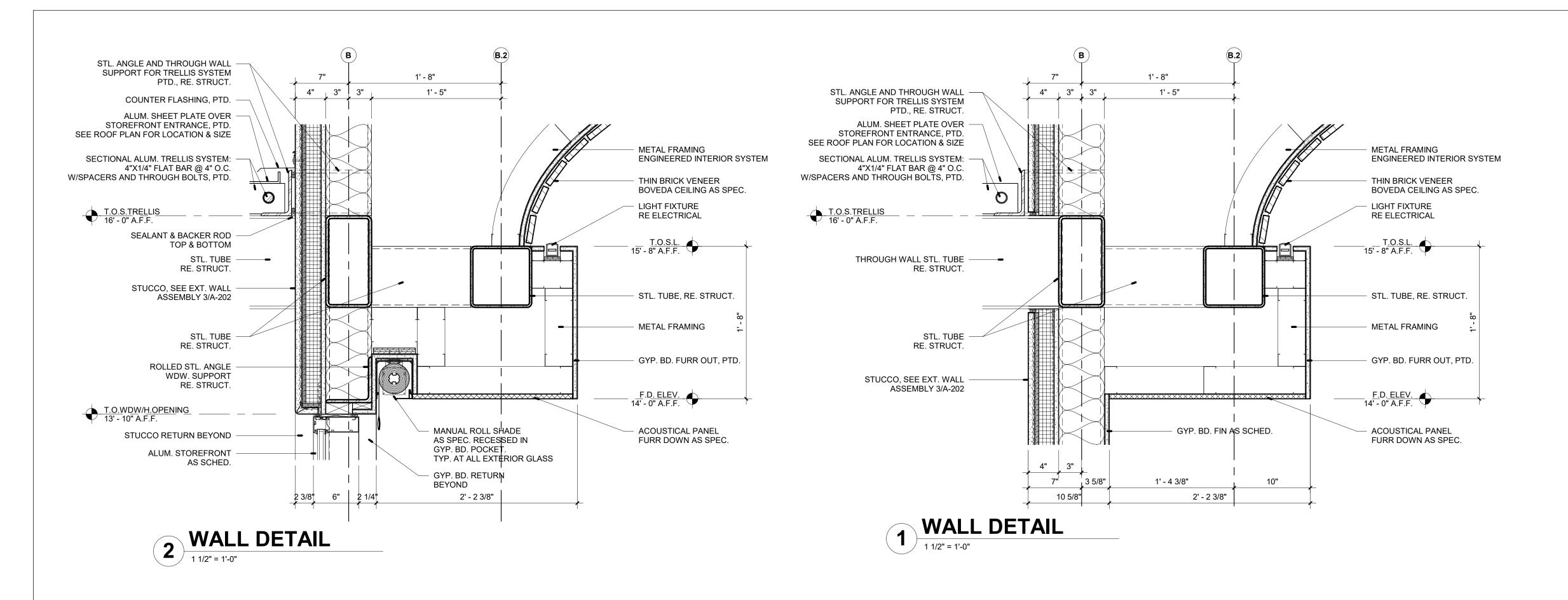
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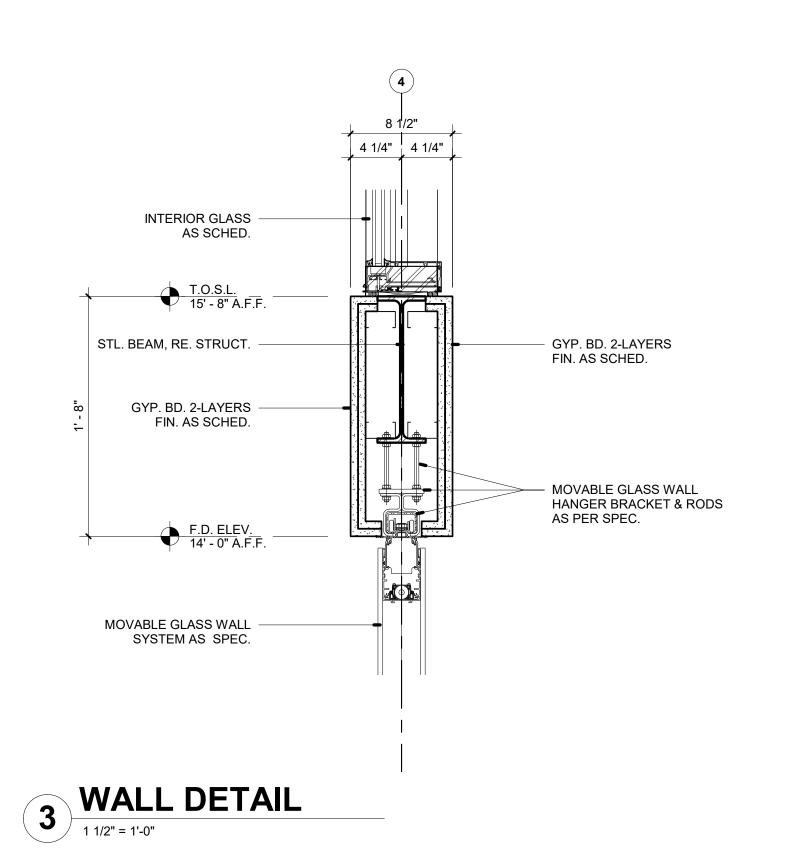












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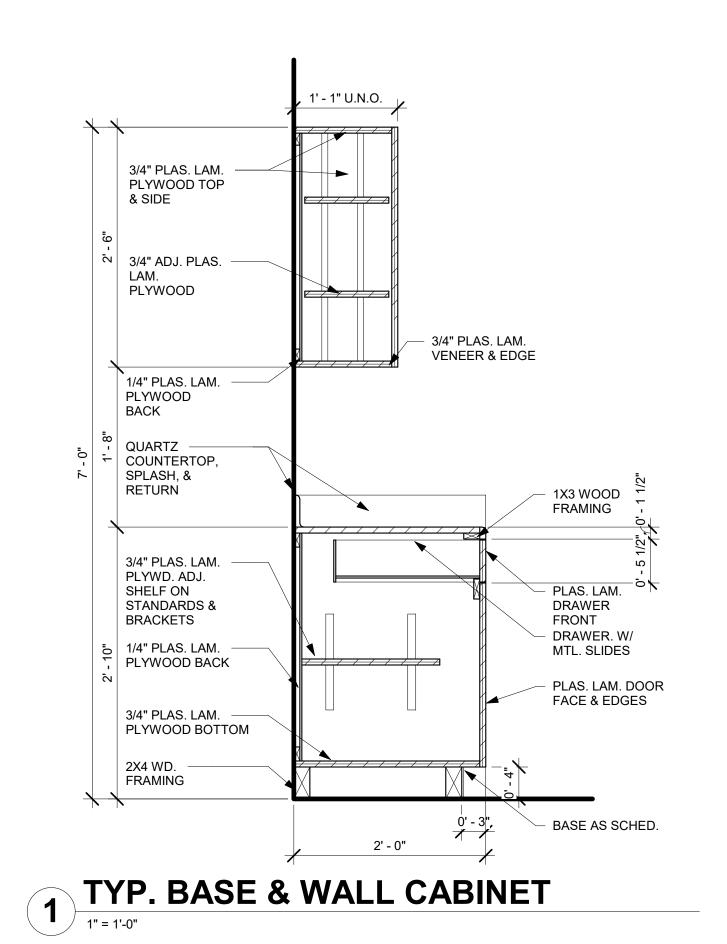
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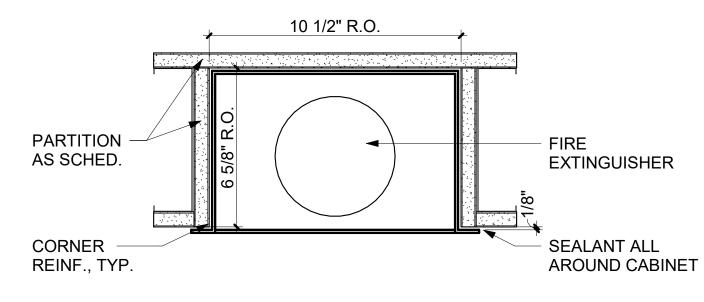
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TEXAS REGISTRATION #18803 12.01.2021

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12/01/21





- NOTES:
  1. CABINET TO BE MOUNTED 5'-0" A.F.F. TO TOP OF CABINET
  2. VERIFY CABINET ROUGH OPENING WITH CABINET MANUFACTURER

FULLY RECESSED FIRE EXTINGUISHER CABINET

3" = 1'-0"

MISC

ORLD

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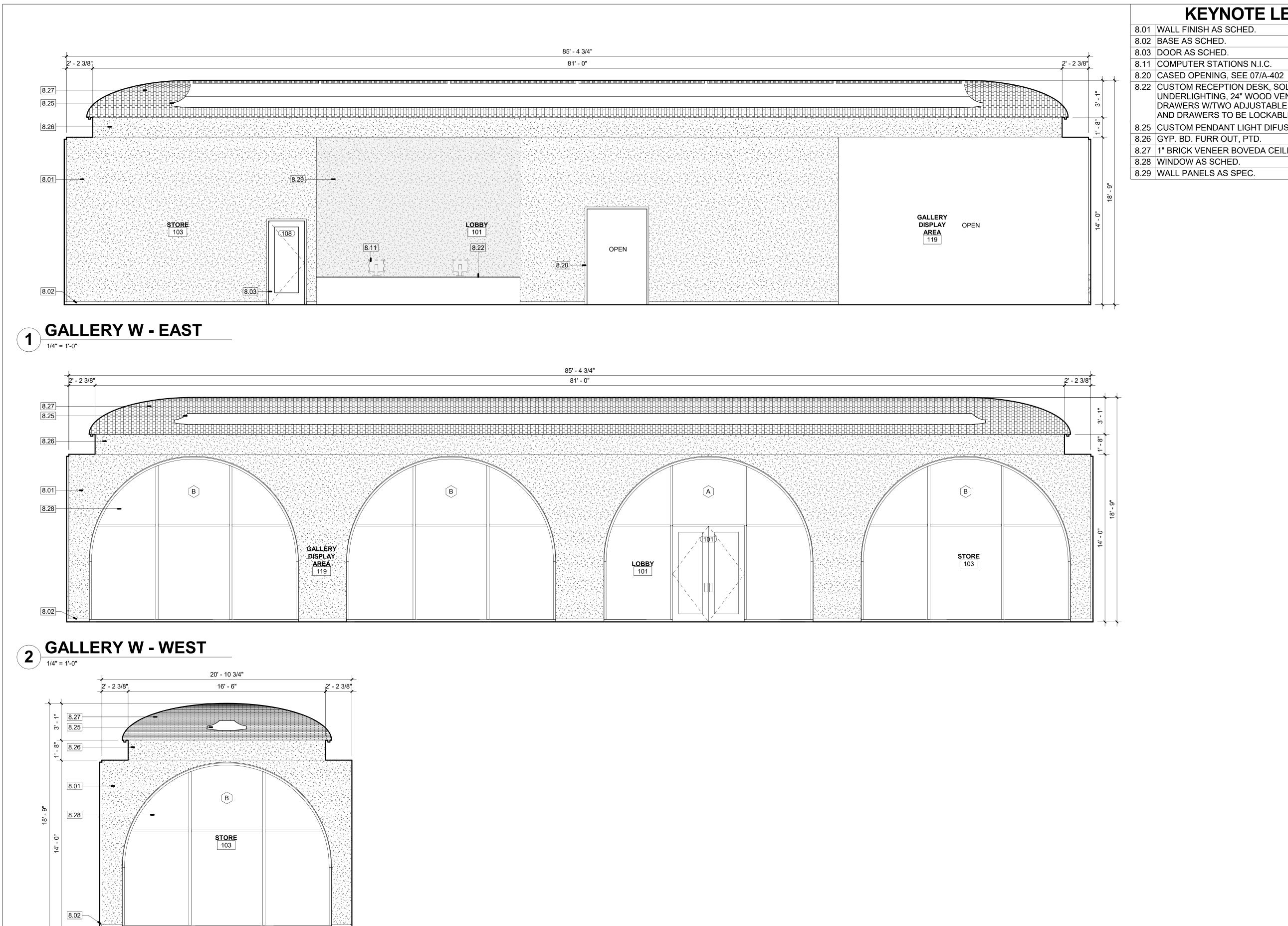
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TEXAS REGISTRATION #18803

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STORE - NORTH

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

**KEYNOTE LEGEND** 

8.22 CUSTOM RECEPTION DESK, SOLID SURFACE TOP W/LED UNDERLIGHTING, 24" WOOD VENEER BASE CABINETS & DRAWERS W/TWO ADJUSTABLE SHELVES, ALL DOORS AND DRAWERS TO BE LOCKABLE

8.25 CUSTOM PENDANT LIGHT DIFUSER

8.26 GYP. BD. FURR OUT, PTD.

8.27 1" BRICK VENEER BOVEDA CEILING

8.28 WINDOW AS SCHED.

8.29 WALL PANELS AS SPEC.

WORLD HERITAGE C SAN ANTONIO, TEXAS

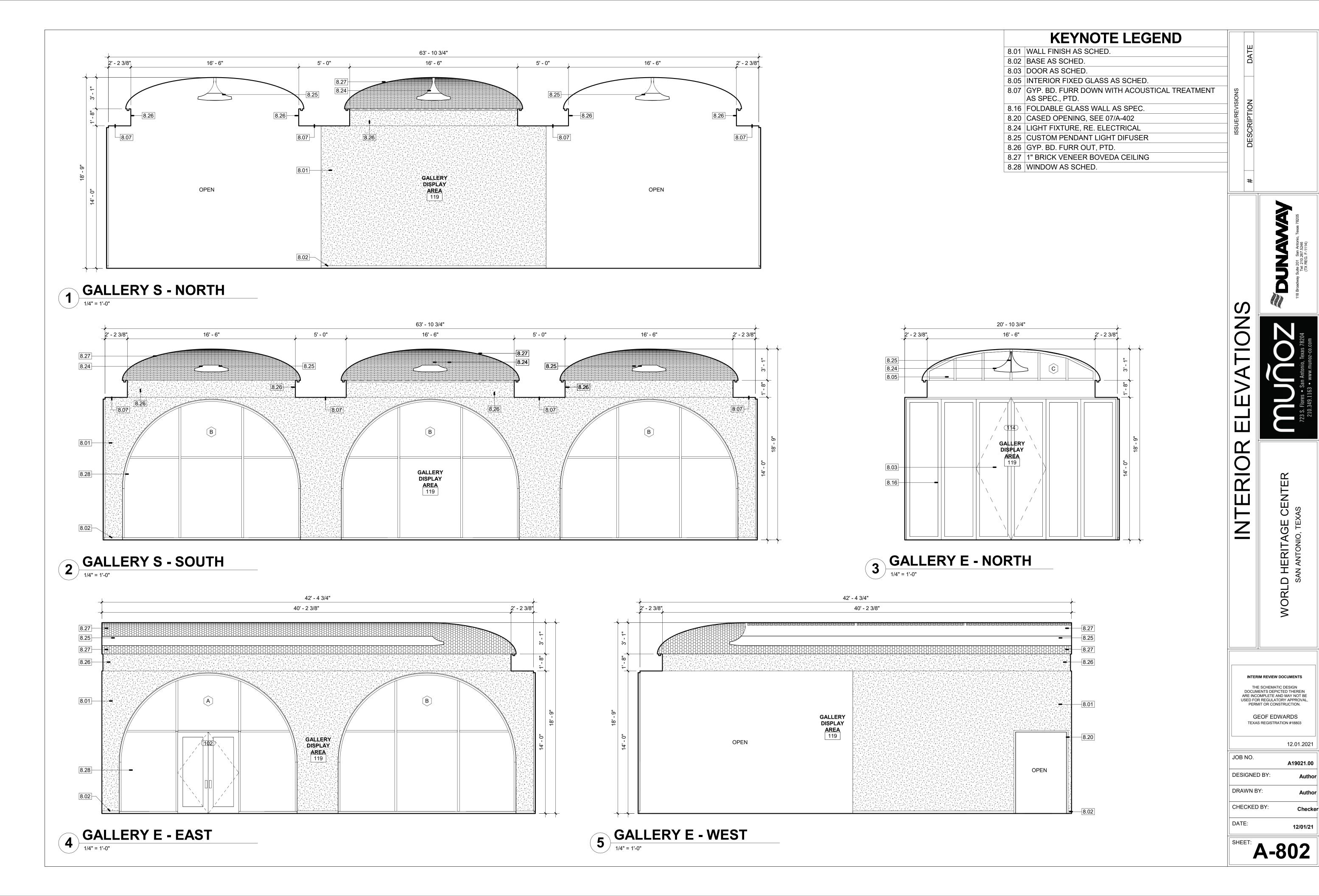
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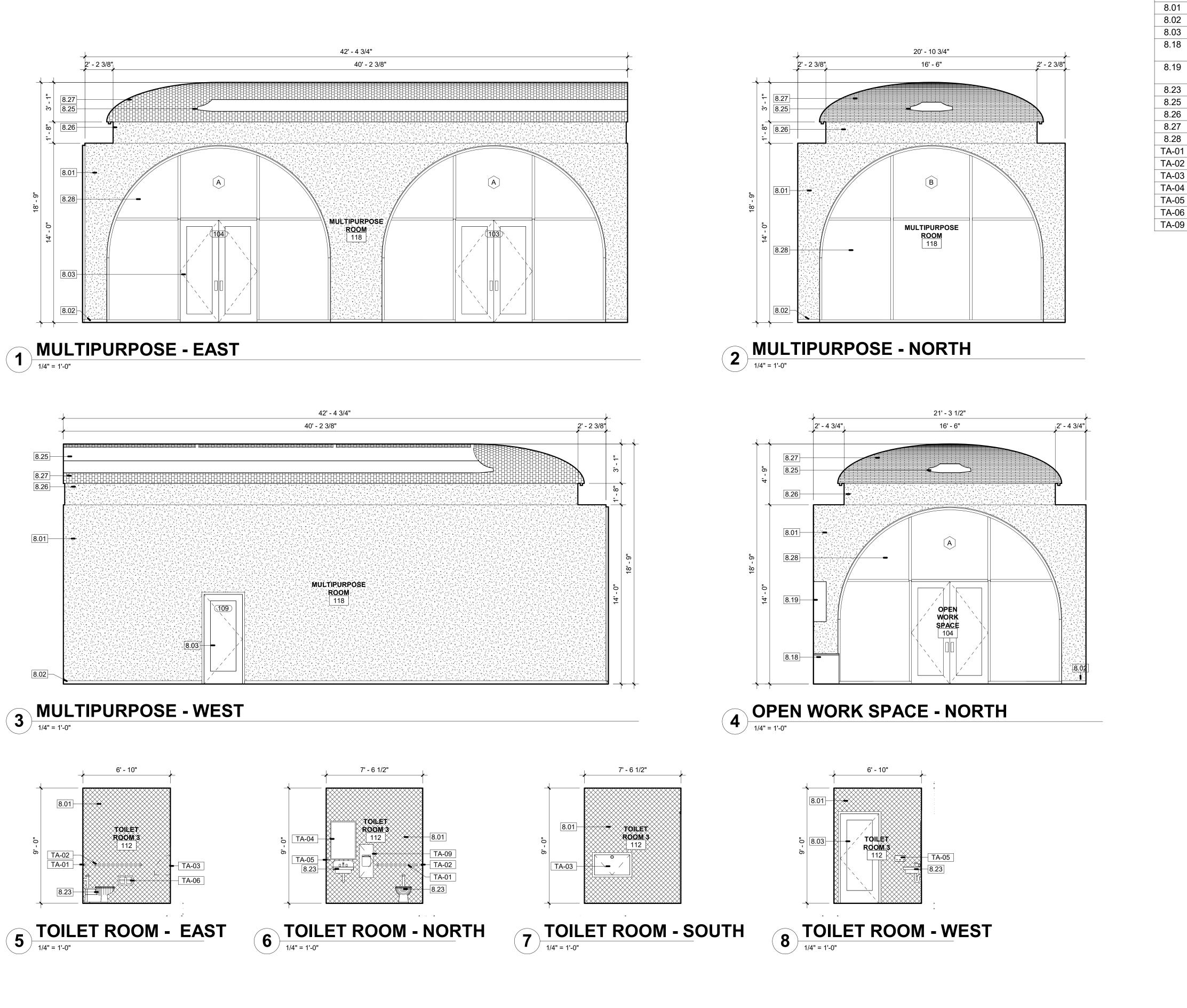
GEOF EDWARDS TEXAS REGISTRATION #18803

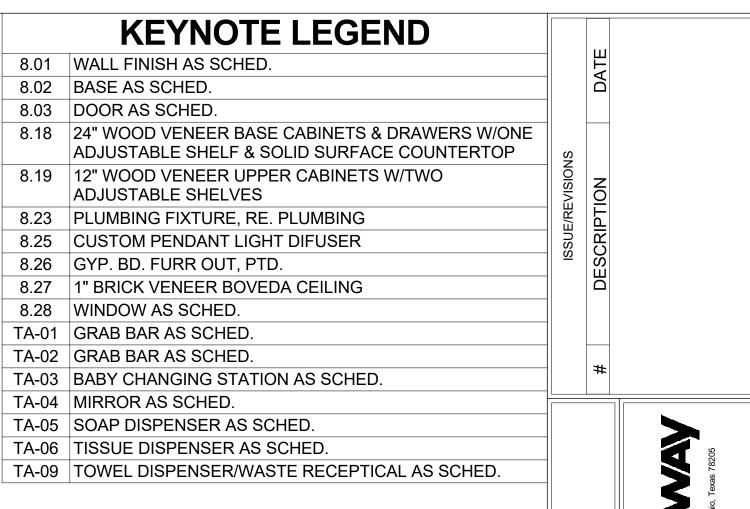
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GEOF EDWARDS
TEXAS REGISTRATION #18803

JOB NO.

A19021.00

DESIGNED BY: Author

DRAWN BY: Author

CHECKED BY: Checker

DATE: 12/01/21

A-803

#### **GENERAL NOTES**

- THE STRUCTURAL DRAWINGS DEPICT THE STRUCTURE IN ITS FINAL CONSTRUCTED CONFIGURATION. NEITHER CONSTRUCTION MEANS AND METHODS NOR CONSTRUCTION SAFETY ARE PART OF THE STRUCTURAL ENGINEER'S EXPERTISE OR SCOPE OF WORK. THE GENERAL CONTRACTOR AND SUBCONTRACTORS ARE FULLY RESPONSIBLE FOR THE MEANS AND METHODS USED TO CONSTRUCT THE STRUCTURE AND FOR FULL COMPLIANCE WITH ALL JOB SAFETY RELATED REGULATIONS AND CONDITIONS AT THE SITE. LIMITED SITE VISITS, IF ANY, BY THE STRUCTURAL ENGINEER ARE SOLELY TO OBSERVE COMPLETED PARTS OF THE STRUCTURE. THE STRUCTURAL ENGINEER IS NEITHER QUALIFIED TO OBSERVE NOR COMMENT ON CONSTRUCTION MEANS AND METHODS AND JOB SITE SAFETY. ADDITIONAL SHORING NOT INDICATED ON THE CONTRACT DOCUMENTS IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- 2. THE GENERAL CONTRACTOR SHALL INCLUDE A STRUCTURAL CONTINGENCY IN THEIR BID TO THE OWNER. THIS CONTINGENCY SHALL EQUAL 5% OF THE INSTALLED COST OF THE CORE AND SHELL STRUCTURE. ANY REMAINING CONTINGENCY SHALL BE REFUNDED TO THE OWNER UPON PROJECT COMPLETION. UNIT COST INCREASES RELATED TO DEEP FOUNDATION SYSTEMS SHALL BE A SEPARATE COST ITEM AS SPECIFIED IN FOUNDATION NOTES.
- 3. PRINCIPAL OPENINGS ARE SHOWN ON THE DRAWINGS. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR OPENINGS, SLEEVES, CURBS, INSERTS, DEPRESSIONS, ETC., NOT SHOWN.
- 4. MECHANICAL ROOFTOP UNIT WEIGHTS SHOWN ON FRAMING PLANS INCLUDE CURB WEIGHTS PROVIDED BY THE MECHANICAL ENGINEER. DUNAWAY SHALL BE NOTIFIED IF FINAL ROOFTOP UNIT WEIGHTS, INCLUDING CURB WEIGHTS, ARE GREATER THAN THE WEIGHTS SHOWN ON FRAMING PLANS.
- 5. ALL DETAILS ARE TYPICAL UNLESS NOTED OTHERWISE. DETAILS SHALL APPLY TO ALL SIMILAR AND LIKE CONDITIONS
- 6. THE GENERAL CONTRACTOR SHALL SUBMIT ELECTRONIC SHOP DRAWINGS TO THE ENGINEER FOR REVIEW OF THE FOLLOWING ITEMS. SEE SPECIFICATIONS WHERE APPLICABLE FOR FURTHER REQUIREMENTS:

CONCRETE MIX DESIGNS FOR EACH CLASS OF CONCRETE INCLUDING TEST DATA CONCRETE REINFORCING

ANCHOR BOLT AND EMBEDDED ITEMS (PLATES, ANGLES, BOLTS, ETC.)

STRUCTURAL STEEL AND ERECTION DRAWINGS

MISCELLANEOUS STEEL ROOF METAL DECK

7. THE GENERAL CONTRACTOR SHALL SUBMIT ELECTRONIC SHOP DRAWINGS AND CALCULATIONS SEALED BY A LICENSED ENGINEER TO THE ENGINEER OF RECORD AND LOCAL JURISDICTION FOR REVIEW OF THE FOLLOWING DEFERRED SUBMITTALS:

ALUMINUM TRELLIS

STEEL CONNECTIONS

LIGHT GAUGE COLD-FORMED METAL STUDS, ERECTION DRAWINGS WITH CALCULATIONS, INCLUDING DESIGN CRITERIA, MEMBER SIZES, AND CONNECTIONS EXTERIOR WINDOW WALL SYSTEM

- 8. THE OMISSION FROM THE SHOP DRAWINGS OF ANY MATERIALS REQUIRED BY THE CONTRACT DOCUMENTS TO BE FURNISHED SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF FURNISHING AND INSTALLING SUCH MATERIALS, REGARDLESS OF WHETHER THE SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED.
- 9. ALL SHOP DRAWINGS MUST BE REVIEWED AND APPROVED BY THE GENERAL CONTRACTOR PRIOR TO THE SUBMITTAL TO THE ENGINEER. THE USE OF ELECTRONIC FILES OR REPRODUCTIONS OF THESE CONTRACT DOCUMENTS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES THEIR ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT, AND OBLIGATES THEMSELVES TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS OR OMISSIONS THAT MAY OCCUR HEREON.
- 10. GRADE SUPPORTED SLAB:

THE CONTRACTOR IS CAUTIONED AGAINST LOADING THE SLAB ON GRADE WITH CRANES, CONCRETE TRUCKS AND ALL OTHER HEAVILY LOADED VEHICLES DURING CONSTRUCTION. THE SLAB HAS NOT BEEN DESIGNED FOR CRANE LOADS AND MAY REQUIRE AN INCREASE IN THE SLAB THICKNESS AND/OR REINFORCEMENT. IF A HEAVY VEHICLE IS TO BE UTILIZED ON THE SLAB, THE CONTRACTOR IS REQUIRED TO SUBMIT CALCULATIONS SIGNED AND SEALED BY A LICENSED ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED VERIFYING THE ADEQUACY OF THE SLAB AND SUBGRADE.

THE GROUND FLOOR SLAB IS A GRADE SUPPORTED SLAB FOLLOWING THE DESIGN RECOMMENDATIONS SHOWN IN THE GEOTECHNICAL REPORT FOR A PVR OF 1 INCH. IT IS NOT STRUCTURALLY ISOLATED FROM THE SUBGRADE AND HAS NOT BEEN DESIGNED TO RESIST ANY EXTERNAL UPWARD OR DOWNWARD LOADS. IT IS INTENDED TO BE ENTIRELY SUPPORTED BY THE PREPARED SUBGRADE BELOW THE SLAB.

BUILDING CODE				
BUILDING CODE	INTERNATIONAL BUILDING CODE 2018			
RISK CATEGORY	II			
	LIVELOADS			

LIVE LOADS					
NONE	N/A PSF				
PARTITIONS	15 PSF				
FIRST FLOOR	100 PSF				
STAIRS AND EXITS	100 PSF + 300 LB CONCENTRATED LOAD AT TREAD MIDSPAN				
ROOF LIVE LOAD	20 PSF				
MECHANICAL ZONE	50 PSF				
SNOV	V LOADS				
GROUND SNOW LOAD	5 PSF				
flat roof snow load	9.2 PSF				
SNOW EXPOSURE FACTOR, Ce	1.2				
SNOW LOAD IMPORTANCE FACTOR, Is	1				
THERMAL FACTOR	1				

RAIN INTENSITY			
RAIN INTENSITY 4.25 IN/HR			

SPREAD F	OOTING DESIGN CRITERIA
BEARING CAPACITY	2000 PSF
BEARING ELEVATION	-3' - 0"
SOIL DECILIDEMENTS	[8] EEET ○E SELECT EILL

WIND LOAD CRITERIA			
ULTIMATE WIND SPEED	108 MPH		
nominal wind speed	83.7 MPH		
IMPORTANCE FACTOR, IW	1		
EXPOSURE CATEGORY	В		
ENCLOSURE CLASSIFICATION	ENCLOSED BUILDING		
INTERNAL PRESSURE COEFFICIENT, Gcpi	+/- 0.18		
MEAN ROOF HEIGHT	21.5 FT		

COMPONENTS AND CLADDING PARAPET PRESSURES (PSF)*						
ADFA		EFFECTIVE WIND AREA (SQ. FT.)				
AREA	10	20	50	100	500	
CASE A, ZONE 2	59	55	50	47	38	
CASE A, ZONE 3	59	55	50	47	38	
CASE B, INTERIOR ZONE	-38	-36	-33	-32	-27	
CASE B, CORNER ZONE	-43	-40	-37	-34	-27	

		EFFECTIVE WIND AREA (SQ. FT.)			
AREA	10	20	50	100	500
NEGATIVE ZONE 1	-34	-32	-29	-27	-21
NEGATIVE ZONE 1'	-20	-20	-20	-20	-16
NEGATIVE ZONE 2	-45	-42	-38	-35	-29
NEGATIVE ZONE 3	-45	-42	-38	-35	-29
POSITIVE ZONE 1 & 1'	16	16	16	16	16
POSITIVE ZONES 2 & 3	21	20	19	18	16
OVERHANG ZONE 1&1'	-31	-30	-29	-29	-18
OVERHANG ZONE 2	-41	-38	-33	-29	-20
OVERHANG ZONE 3	-41	-38	-33	-29	-20

COMPONENTS AND CLADDING WALL PRESSURES (PSF)*						
AREA		EFFECTIVE WIND AREA (SQ. FT.)				
	10	20	50	100	500	
NEGATIVE ZONE 4	-23	-22	-21	-20	-18	
NEGATIVE ZONE 5	-29	-27	-24	-22	-18	
POSITIVE ZONE 4 & 5	21	21	19	18	16	

\*WIND LOADS SHOWN ARE ULTIMATE LOADS WITHOUT LOAD FACTORS FROM RELEVANT IBC LOAD COMBINATIONS. A DEAD LOAD OF 5 PSF MAY BE USED IN THE CALCULATION OF NET UPLIFT FOR THE JOISTS AND DECK.

LINEAR INTERPORLATION IS ALLOWED FOR EFFECTIVE AREAS BETWEEN THOSE PROVIDED.

SEISMIC LOAD CRITERIA			
IMPORTANCE FACTOR, le	1		
0.2 SEC SPECTRAL ACCELERATION, Ss	0.051		
1.0 SEC SPECTRAL ACCELERATION, S1	0.022		
SPECTRAL RESPONSE COEFFICIENT, Sds	0.05		
SPECTRAL RESPONSE COEFFICIENT, Sd1	0.04		
SITE CLASS CATEGORY	D		
SEISMIC DESIGN CATEGORY	A		
SEISMIC FORCE RESISTING SYSTEM	STEEL ORDINARY CONCENTRICALLY BRACED FRAMES		
DESIGN BASE SHEAR, V	5 K		
SEISMIC RESPONSE COEFFICIENT, Cs	0.01		
RESPONSE MODIFICATION FACTOR, R	3.25		
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURI		

ARCHITECTURAL BARRIER ACT			
GRAB BAR	250 LBS IN ANY DIRECTION		
TUB OR SHOWER SEAT	250 LBS IN ANY DIRECTION		
FASTENERS AND MOUNTING DEVICES	250 LBS IN ANY DIRECTION		
HANDRAILS AND GUARDRAILS	200 LBS OR 50 PLF IN ANY DIRECTION		
VEHICLE BARRIER LOAD	6000 LB CONCENTRATED LOAD APPLIED HORIZONTALLY AND LOCATED AT ANY ELEVATION BETWEEN 1'-6" AND 2'-3" ABOVE FINISHED FLOOR. THE LOAD SHALL BE APPLIED ON AN AREA NOT TO EEXCEED 12"x12" AND LOCATED SO AS TO PRODUCE THE MAXIMUM LOAD EFFECTS		

PIPE LOADS WITH WATER							
PIPE DIAMETER (IN)	PIPE DIAMETER (IN) WEIGHT (PLF) MAX SPACING OF HANGERS (I						
4	16	10					
6	32	10					
8	50	5					
10	75	5					
12	100	5					

#### SITE DRAINAGE

- GRADE THE SITE TO PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS AND SLABS. WATER SHALL NOT BE ALLOWED TO POND ADJACENT TO THE BUILDING FOUNDATIONS OR SLABS.
- DOWNSPOUTS FROM ROOF DRAINS AND GUTTERS SHALL BE COLLECTED AND PIPED AWAY FROM THE BUILDING. WHEN WATER IS NOT PIPED AWAY FROM THE BUILDING, DOWNSPOUTS SHALL DUMP ONTO A CAST IN PLACE 4" THICK X 3'-0" WIDE CONCRETE SWALE REINFORCED WITH #4 AT 12" ON CENTER EACH WAY AND EXTENDING 10'-0" OUT FROM THE BUILDING.
- TREES AND VEGETATION SHALL NOT BE ALLOWED WITHIN A DISTANCE EQUAL TO THREE QUARTERS THEIR ULTIMATE HEIGHT AWAY FROM THE BUILDING.
- 4. IRRIGATE VEGETATION AND SOILS ADJACENT TO BUILDING (NO MORE THAN 15 MINUTES THREE TIMES A WEEK) ON AN AS NEEDED BASIS TO MAINTAIN UNIFORM SOIL MOISTURE CONDITIONS AROUND THE PERIMETER OF THE BUILDING FOLLOWING CONSTRUCTION.

#### **EARTHWORK AND FOUNDATIONS**

- 1. FOUNDATION DETAILING SHOWN ON THE DRAWINGS IS BASED ON A FOUNDATION DESIGN SPECIFIED IN THE SOIL REPORT BY ARIAS GEOPROFESSIONALS, INC., REPORT NO. 2019-823, DATED NOVEMBER 04, 2020 ALONG WITH SUPPLEMENT 1, DATED MAY 28, 2021. THE RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL REPORT SHALL NOT SUPERSEDE THE REQUIREMENTS SHOWN IN THE CONTRACT DOCUMENTS OR IN THE SPECIFICATIONS WHEN THE REQUIREMENTS SHOWN ON THE CONTRACT DOCUMENTS ARE MORE STRINGENT THAN THOSE SHOWN IN THE GEOTECHNICAL REPORT. THE CONTRACTOR IS REQUIRED TO SECURE A COPY OF THE GEOTECHNICAL REPORT FROM THE OWNER AND TO HAVE A COPY ON THE JOB SITE AT ALL TIMES FOR THEIR USE AND REFERENCE.
- 2. SITE PREPARATION FOR THE BUILDING PAD SHALL CONSIST OF THE REMOVAL OF EXISTING PAVEMENT, VEGETATION, ORGANIC MATTER AND ANY ADDITIONAL MATERIAL AS NECESSARY TO PROVIDE THE REQUIRED AMOUNT OF FILL UNDER THE BUILDING AND EXTENDING OUT A MINIMUM OF 5'-0" BEYOND THE PERIMETER OF THE BUILDING.
- 3. THE EXPOSED SUBGRADE SHALL BE PROOFROLLED, SCARIFIED, MOISTURE CONDITIONED AND RECOMPACTED PER THE GEOTECHNICAL REPORT REQUIREMENTS. PROVIDE FIELD DENSITY TESTS ON THE SUBGRADE TO CONFORM WITH THE GEOTECHNICAL REPORT REQUIREMENTS.
- 4. SELECT FILL MATERIAL FOR THE BUILDING PAD SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT REQUIREMENTS. ON-SITE OR ALTERNATE FILL MATERIAL MAY BE SUITABLE FOR USE UNDER THE BUILDING PAD WITH APPROVAL BY THE GEOTECHNICAL ENGINEER. SELECT FILL SHALL BE MOISTURE CONDITIONED AND COMPACTED PER THE GEOTECHNICAL REPORT REQUIREMENTS. PROVIDE FIELD DENSITY AND ATTERBERG TESTS ON THE SELECT FILL TO CONFORM WITH THE GEOTECHNICAL REPORT REQUIREMENTS.
- FOUNDATION DETAILING SHOWN ON THE DRAWINGS IS BASED ON A MINIMUM OF 6 FEET OF SOILS REMOVED/ REPLACED WITH IMPORTED SELECT FILL OR 8 FEET OF MOISTURE-CONDITIONED ON-SITE SOILS BENEATH THE FLOOR SLAB AND FOOTINGS AND EXTENDING 5'-0" BEYOND THE BUILDING PERIMETER. PROVIDE ADDITIONAL SELECT FILL MATERIAL AS REQUIRED TO BRING THE SLAB UP TO THE FINISH FLOOR ELEVATION SHOWN IN THE CONSTRUCTION DOCUMENTS.
- IF THE BUILDING PAD HAS BEEN INSTALLED FOR MORE THAN TWO MONTHS PRIOR TO THE PLACEMENT OF THE VAPOR BARRIER, PROVIDE FIELD MOISTURE TESTS FOR THE FULL DEPTH OF THE PAD 96 HOURS PRIOR TO PLACEMENT OF THE WATER VAPOR BARRIER TO ENSURE THAT THE FILL MOISTURE CONTENT HAS BEEN MAINTAINED PRIOR TO CONCRETE PLACEMENT. MOISTURE CONTENTS SHALL BE TAKEN AT 12 INCH VERTICAL INTERVALS WITH A MINIMUM OF TWO TESTS PER BORING AT A RATE OF ONE (1) BORING FOR EVERY 2,500 SQUARE FEET OF PAD WITH A MAXIMUM OF TEN (10). THE MOISTURE CONTENT AND COMPACTION SHALL CONFORM TO THE REFERENCED GEOTECHNICAL REPORT.
- 7. CONTRACTOR SHALL MAINTAIN A CLEAN EXCAVATION THAT IS FREE OF PONDING WATER 100% OF THE TIME. CONTRACTOR SHALL PROVIDE PUMPS AS REQUIRED TO REMOVE ANY WATER AT ALL TIMES.
- 8. THE SITE SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE BUILDING PAD DURING BUILDING PAD INSTALLATION AND WHEN THE BUILDING PAD AND BUILDING ARE COMPLETED.
- 9. ALL FOOTINGS SHALL BE CONSOLIDATED WITH A CONCRETE VIBRATOR AS PER THE REQUIREMENTS OF ACI 318 AND ACI 308R, LATEST EDITION.
- 10. FOOTINGS SHALL BE POURED IMMEDIATELY UPON COMPLETION OF EXCAVATION AND CLEANING OF FOOTING BEARING SURFACE. ALL SPOILS FROM THE FOOTING EXCAVATIONS SHALL BE REMOVED FROM THE BUILDING PAD.
- 11. ALL BACKFILL FOR BURIED PIPES AND CONDUIT WITHIN THE BUILDING PAD AND EXTENDING OUT A MINIMUM OF 5'-0" BEYOND THE BUILDING SHALL BE BACKFILLED WITH SELECT FILL BACKFILL. DO NOT USE SAND BACKFILL. A 1'-0" WIDE BENTONITE PLUG SHALL BE PROVIDED IN ALL UTILITY TRENCHES AT THE FACE OF THE BUILDING FOUNDATION. SEE TYPICAL FOUNDATION DETAILS FOR DETAIL AT PIPE BUILDING ENTRY.
- 12. PLUMBING AND UTILITY TRENCHES WITHIN THE BUILDING PAD SHALL HAVE PIPING BEDDED ON 6" MINIMUM OF DRY CEMENT STABILIZED SAND WITH 4" MINIMUM ALL AROUND. BACKFILL IN UTILITY TRENCHES SHALL CONSIST OF COMPACTED SELECT FILL. PROVIDE A 1'-0" WIDE BENTONITE PLUG FOR THE FULL DEPTH AND WIDTH OF THE UTILITY TRENCH TO A MINIMUM OF 1'-0" ABOVE THE BOTTOM OF THE FOUNDATION AT THE EXTERIOR FACE OF BUILDING FOUNDATIONS WHERE UTILITY TRENCHES ENTER THE BUILDING.
- 13. PROVIDE A MINIMUM SIX (6) INCH CLAY CAP FOR A MINIMUM OF 5'-0" AROUND THE PERIMETER OF THE BUILDING. THE CAP SHALL EXTEND AS REQUIRED TO COVER THE LIMITS OF THE EXCAVATION AND SELECT FILL BUILDING PAD MATERIALS.

#### CONCRETE

- 1. ALL CONCRETE REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60, EXCEPT WHERE NOTED. NO. 3 BARS SHALL CONFORM TO ASTM A615, GRADE 40. DEFORMED BAR ANCHORS SHALL CONFORM TO ASTM A496, GR 70. ALL WELDED WIRE FABRIC SHALL BE SMOOTH ROUND WIRE IN FLAT SHEETS (NOT ROLLED) AND CONFORM TO ASTM A185.
- 2. CONCRETE PERTAINING TO THE FOLLOWING ITEMS SHALL HAVE SAND AND CRUSHED CARBONATE AGGREGATE CONFORMING TO ASTM C33, TYPE I/II PORTLAND CEMENT CONFORMING TO ASTM C150 AND FLY ASH CONFORMING TO ASTM C618, CLASS 'C' OR 'F' UP TO 25 PERCENT REPLACEMENT BY MASS. CONCRETE MIX DESIGNS SHALL CONFORM TO ACI 318-11 TABLE 4.2.1, 4.3.1 AND 4.4.1 FOR ADDITIONAL REQUIREMENTS DUE TO FREEZING AND THAWING EXPOSURE CLASS ALONG WITH THE FOLLOWING DESIGNATED COMPRESSIVE STRENGTH (f'c) IN 28 DAYS:

CONCRETE MIX DESIGN REQUIREMENTS						
MEMBER TYPE	STRENGTH (PSI)	MAXIMUM AGGREGATE	MAXIMUM W/C RATIO	AIR CONTENT		
FOUNDATION						
SPREAD FOOTINGS	3500	1"	0.45			
GRADE BEAMS	3500	1"	0.45			
SLAB ON GRADE	3500	1"	0.45			

#### CONCRETE

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

3. CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE AS FOLLOWS; SEE SEC. 7.7 ACI 318, LATEST EDITION FOR CONDITIONS NOT NOTED.

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH - 3"

CONCRETE EXPOSED TO EARTH OR WEATHER: #6 THRU #18 BARS - 2"

AT 45-INCH MAXIMUM INTERVALS OR EVERY THIRD BAR.

#5 BAR AND SMALLER - 1 1/2"

CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: #14 & #18 BAR - 1 1/2"

#11 BAR AND SMALLER - 3/4"

- BEAMS: PRIMARY REINFORCEMENT AND STIRRUPS 1 1/2"

  4. PROVIDE CHAIR SUPPORTS (AZTEC EZ CHAIR, WHC SERIES 'B' OR EQUAL) TO ADEQUATELY SUPPORT BARS FOR PROPER CLEARANCE AS RECOMMENDED BY THE AMERICAN CONCRETE INSTITUTE AND THE CONCRETE REINFORCING STEEL INSTITUTE. SLAB ON GRADE REINFORCEMENT SHALL BE SUPPORTED
- NO HORIZONTAL JOINTS WILL BE PERMITTED IN CONCRETE EXCEPT WHERE THEY NORMALLY OCCUR OR WHERE NOTED. VERTICAL JOINTS SHALL ONLY OCCUR AT LOCATIONS APPROVED BY THE STRUCTURAL ENGINEER.
- 6. DETAILING OF CONCRETE REINFORCEMENT AND ACCESSORIES SHALL BE IN ACCORDANCE WITH ACI PUBLICATION 315, LATEST EDITION. ALL HOOKED BARS SHOWN IN DETAILS SHALL HAVE STANDARD HOOKS UNLESS NOTED OTHERWISE.
- 7. REINFORCING BARS SHALL NOT BE WELDED WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.
- 8. ALL CONTINUOUS REINFORCEMENT SHALL BE SPLICED WITH A CLASS 'B' TENSION SPLICE, UNLESS NOTED OTHERWISE. PROVIDE TOP AND BOTTOM BARS (TWO 36" LEGS MINIMUM WITH 90 DEGREE BEND) TO MATCH SIZE AND SPACING OF CONTINUOUS REINFORCING AT CORNERS AND INTERSECTIONS, AND AT 18" ON CENTER VERTICALLY AT WALLS.
- 9. ALL MIXING, TRANSPORTING, PLACING AND CURING OF CONCRETE SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE, ACI 301, LATEST EDITION.
- 10. ALL BASE PLATES AND ANCHOR RODS SHALL BE PROTECTED WITH 3" (MIN.) OF CONCRETE. ANCHOR RODS SHALL BE FABRICATED FROM FULL BODIED STEEL RODS CONFORMING TO ASTM F1554, GRADE 36, WASHERS CONFORMING TO ASTM F436 AND NUTS CONFORMING TO ASTM A194 OR A563 AND HAVING THE SAME DIAMETER AS THE BOLT DIAMETER AND USING CUT THREADS. ROLLED THREADS ARE NOT ACCEPTABLE. BOLTS SHALL BE SET USING RIGID TEMPLATES.
- 11. PROVIDE 2-#5x6'-0" AT RE-ENTRANT CORNERS OF SLAB ON GRADE.
- 12. ALL DOWELS, ANCHOR BOLTS, EMBEDDED STEEL, ELECTRICAL CONDUITS, PIPE SLEEVES, PIPING, WATERSTOPS, INSERTS, GROUNDS, AND ALL OTHER EMBEDDED ITEMS AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT. FOR EMBEDDED ITEMS AND REQUIRED DETAILS, SEE MECHANICAL, ELECTRICAL, AND ARCHITECTURAL DRAWINGS. VERIFY SIZE AND LOCATIONS OF ALL OPENINGS.

THE 201 San Antonio Texas 78205

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JOB NO. 5675

DESIGNED BY: KK

DRAWN BY: KK

CHECKED BY: NW

DATE:

S-000

**DECEMBER 1, 2021** 

#### STRUCTURAL STEEL

- A NON-SHRINK GROUT SHALL BE USED UNDER ALL STEEL COLUMN BASE PLATES. GROUT SHALL CONFORM TO ASTM C1107 AND THE CORPS OF ENGINEERS SPECIFICATION CRD-C-621. GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 6000 PSI. 100 PERCENT OF VOID UNDER ALL BASE PLATES IS TO BE GROUTED. ALL BASE PLATES WITH A DIMENSION GREATER THAN 24" SHALL HAVE TWO 1" DIAMETER GROUT HOLES. IF THE SPACE UNDER A COLUMN BASE PLATE IS LESS THAN 1/4", A PRESSURE INJECTION SYSTEM SHALL BE USED.
- 2. ALL STRUCTURAL STEEL DESIGN, DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO LOAD AND RESISTANCE FACTOR DESIGN (LRFD) ACCORDING TO THE LATEST EDITION AISC SPECIFICATION.
- 3. ALL WELDING SHALL CONFORM TO THE STANDARDS OF THE LATEST EDITION OF THE MANUAL OF STEEL CONSTRUCTION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AND THE AMERICAN WELDING SOCIETY ANSI/AWS D1.1 STRUCTURAL WELDING CODE-STEEL. WELDING OF REINFORCING BARS SHALL COMPLY TO THE AMERICAN WELDING SOCIETY AWS D1.4. SHORT CIRCUIT TRANSFER FOR THE GAS METAL ARC WELDING PROCESS IS NOT PERMITTED.
- 4. ELECTRODES FOR ALL FIELD AND SHOP WELDING SHALL BE CLASS E70XX. ELECTRODES FOR MOMENT CONNECTIONS SHALL BE CLASS E7018 WITH A CHARPY TOUGHNESS OF AT LEAST 20 T-LBS AT –20 DEGREES FAHRENHEIT.
- 5. ALL STRUCTURAL STEEL ROLLED W-SHAPES SHALL CONFORM TO ASTM A992, AND ALL ANGLES, BARS, CHANNELS AND PLATES SHALL CONFORM TO ASTM A36. ALL SQUARE AND RECTANGULAR HSS (Fy 50 KSI) AND ROUND HSS (Fy 46KSI) SHALL CONFORM TO ASTM A500 GRADE C. ROUND PIPES (Fy 36KSI) SHALL CONFORM TO ASTM A53 GR B.
- ALL STRUCTURAL STEEL DETAILS AND CONNECTIONS SHALL CONFORM TO STANDARDS OF THE AISC. DOUBLE CONNECTIONS THROUGH COLUMN WEBS, BEAMS THAT FRAME OVER THE TOP OF COLUMNS, AND BEAM TO BEAM CONNECTIONS SHALL HAVE A BEAM ERECTION SEAT OR A STAGGERED CONNECTION WITH AT LEAST ONE INSTALLED BOLT REMAINING IN PLACE TO SUPPORT THE FIRST BEAM WHILE THE SECOND BEAM IS BEING ERECTED.
- 7. LRFD BEAM REACTIONS USED ARE SHOWN ON PLAN. SIMPLE SHEAR CONNECTIONS SHALL BE SELECTED FROM THE TABLES IN PART 10 OF THE LATEST EDITION OF THE MANUAL OF STEEL CONSTRUCTION OF THE AISC FOLLOWING LRFD DESIGN. TABLE 10—1 MAY BE USED FOR ALL-BOLTED DOUBLE ANGLE CONNECTIONS. TABLE 10-2 MAY BE USED FOR WELDED/BOLTED DOUBLE ANGLE CONNECTIONS. TABLE 10-3 MAY BE USED FOR ALL-WELDED DOUBLE ANGLE CONNECTIONS. TABLE 10-10a MAY BE USED FOR SINGLE-PLATE CONNECTIONS.

IF NO REACTION IS INDICATED, CONNECTIONS SHALL BE DESIGNED FOR ONE-HALF THE TOTAL ALLOWABLE UNIFORM LOAD GIVEN IN TABLE 3-6 THROUGH 3-9 IN PART 3 OF THE MANUAL OF STEEL CONSTRUCTION OF THE AISC. CONNECTIONS FOR COMPOSITE BEAMS SHALL HAVE THE STANDARD AISC CAPACITY INCREASED BY 35 PERCENT.

8. FOR CONNECTIONS THAT DO NOT APPLY TO SIMPLE SHEAR CONNECTIONS PER PART 10 OF THE AISC, THE STRUCTURAL STEEL CONNECTIONS FOR ALL CONNECTIONS NOT FULLY DETAILED ON DRAWINGS SHALL BE DESIGNED BY THE LICENSED PROFESSIONAL STRUCTURAL ENGINEER WORKING FOR THE FABRICATOR.

DESIGN CRITERIA: LRFD

LOAD DATA:

REACING CONNECTIONS: SEE PEACTIONS SHOWN ON DRAW

BRACING CONNECTIONS: SEE REACTIONS SHOWN ON DRAWINGS

AT LEAST 10 DAYS PRIOR TO SUBMITTAL OF THE SHOP AND ERECTION DRAWINGS, PROVIDE SAMPLE
SUBSTANTIATING CONNECTION INFORMATION IN THE FORM OF SAMPLE CALCULATIONS FOR REVIEW
AND COMMENT BY ENGINEER OF RECORD. AFTER REVIEW COMPLETED FOR SAMPLE
CALCULATIONS, PROVIDE FINAL CALCULATIONS WITH THE SHOP AND ERECTION DRAWINGS.
CALCULATIONS SHALL BE SIGNED AND SEALED BY THE LICENSED PROFESSIONAL ENGINEER IN THE
STATE OF TEXAS IN RESPONSIBLE CHARGE OF THE CONNECTION DESIGN. THE OWNER'S DESIGNATED
REPRESENTATIVE FOR DESIGN IS THE FINAL AUTHORITY IN THE EVENT OF A DISAGREEMENT BETWEEN
PARTIES REGARDING THE DESIGN OF CONNECTIONS PER AISC 303 SECTION 4.4.

- 9. ALL MISCELLANEOUS WELDS (FIELD OR SHOP) SHALL BE MINIMUM SIZE FILLET ALL AROUND IN ACCORDANCE WITH AISC. WELDING OF CONTINUOUS MEMBERS SHALL BE A MINIMUM OF 2 INCHES OF 3/16 INCH FILLET STITCH WELDS AT 12 INCHES O.C., STAGGERED EACH SIDE, UNLESS NOTED OTHERWISE. COLUMN BASE PLATES, CAP PLATES AND STIFFENER PLATES SHALL BE WELDED ALL AROUND.
- 10. PROVIDE ALL NECESSARY HOLES IN MISCELLANEOUS STRUCTURAL STEEL MEMBERS FOR ATTACHMENT OF NON-STRUCTURAL ITEMS (IE: WINDOW HEAD ANCHORS, CAST STONE ATTACHMENT, ETC), SEE ARCHITECTURAL DRAWINGS FOR REQUIREMENTS.
- 11. SPLICING OF STRUCTURAL STEEL MEMBERS WHERE NOT DETAILED IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
- 12. ALL CONNECTION BOLTS FOR STRUCTURAL STEEL MEMBERS SHALL CONFORM TO ASTM A325 EXCEPT WHERE NOTED OTHERWISE. MINIMUM SIZE SHALL BE 3/4 INCH DIAMETER UNLESS NOTED OTHERWISE. BOLTS SHALL BE TWIST OFF TYPE TENSION CONTROLLED BOLTS CONFORMING TO ASTM F1852 WITH HARDENED WASHERS UNDER THE NUT. HEX HEAD NUTS SHALL CONFORM TO ASTM A563 AND WASHERS SHALL CONFORM TO ASTM F436.
- 13. SHOP BOLTED CONNECTIONS ARE PERMISSIBLE IF SUFFICIENT BOLT CLEARANCE IS AVAILABLE FOR TIGHTENING OF HIGH STRENGTH BOLTS. CLEARANCES SHALL BE IN ACCORDANCE WITH TABLE 7-16 AND 7-17 OF THE LATEST EDITION OF THE MANUAL OF STEEL CONSTRUCTION OF THE AISC. ALL STEEL MEMBERS AND ASSEMBLIES SHALL BE SHOP FABRICATED TO THE GREATEST EXTENT POSSIBLE. TRUSSES SHALL BE PREASSEMBLED, AND FIELD SPLICES FOR SHIPPING SHALL BE APPROVED BY THE ENGINEER OF RECORD. THE STEEL FABRICATOR AND THE STEEL ERECTOR SHALL COORDINATE THE SHOP FABRICATION. SHIPPING AND ERECTION OF ALL STRUCTURAL MEMBERS AND ASSEMBLIES.
- 14. ALL STEEL LINTEL ANGLES ARE DESIGNED TO FULLY SUPPORT THE MASONRY VENEER WITH SOME NORMAL DEFLECTION DURING INSTALLATION. MASONRY SHALL BE INSTALLED WITHOUT SHORING THE SUPPORT ANGLE DURING CONSTRUCTION. SHORING THE MASONRY DURING CONSTRUCTION CAN RESULT IN HORIZONTAL BED JOINT CRACKING WHEN THE SHORES ARE REMOVED.
- 15. FOR STEEL BEAMS SHOWN ON THE DRAWINGS THAT DO NOT MEET THE MINIMUM SIZE REQUIRED BY THE U.L. DESIGN NUMBER, WHICH IS SELECTED BY THE ARCHITECT, THE THICKNESS OF THE SPRAYED FIRE PROTECTION MATERIAL SHALL BE INCREASED. INCREASED THICKNESS OF SPRAYED FIRE PROTECTION MATERIAL SHALL BE AS REQUIRED BY THE FORMULA SHOWN IN THE U.L. FIRE RESISTANCE DIRECTORY LATEST EDITION UNDER ADJUSTMENT OF SPRAYED PROTECTION MATERIAL THICKNESS FOR RESTRAINED BEAM RATINGS FOR VARIOUS BEAM SIZES.
- 16. FOR STEEL COLUMNS SHOWN ON THE DRAWINGS THAT DO NOT MEET THE MINIMUM SIZE REQUIRED BY THE U.L. DESIGN NUMBER, WHICH IS SELECTED BY THE ARCHITECT, THE THICKNESS OF THE SPRAYED FIRE PROTECTION MATERIAL SHALL BE INCREASED. INCREASED THICKNESS OF SPRAYED FIRE PROTECTION MATERIAL SHALL BE AS REQUIRED BY THE FORMULA SHOWN IN THE U.L. FIRE RESISTANCE DIRECTORY LATEST EDITION.

#### STRUCTURAL STEEL

- 17. SOME U.L. RATINGS, WHICH ARE SELECTED BY THE ARCHITECT, REQUIRE SPECIAL MEMBER SIZES FOR THE DESIGN AND FABRICATION OF OPEN WEB STEEL JOISTS. THE JOIST MANUFACTURER SHALL DESIGN ALL JOISTS TO MEET THE REQUIREMENTS SPECIFIED IN THE LATEST EDITION OF THE U.L. FIRE RESISTANCE DIRECTORY.
- 18. ALL STRUCTURAL STEEL WHICH IS OUTSIDE THE BUILDING ENVELOPE SHALL BE HOT DIPPED GALVANIZED. ZINC COATING SHALL MEET THE REQUIREMENTS OF ASTM 123-73, WITH A MINIMUM COATING CLASS OF G60 UNLESS SPECIFIED OTHERWISE BY ARCHITECT AND SHALL BE APPLIED AFTER FABRICATION. ALL FIELD WELDS SHALL BE GROUND SMOOTH AND TOUCHED UP WITH A ZINC RICH PAINT
- 19. STEEL FABRICATOR SHALL PROVIDE ALL SAFETY CABLE HOLES AND/OR ERECTION PLATES ATTACHED TO THE COLUMN. PROVIDE AN L3x3x1/4 DECK SUPPORT ANGLE ON ALL SIDES OF THE COLUMN.
- 20. THE GENERAL CONTRACTOR AND SUBCONTRACTOR'S SHALL COMPLY TO OSHA 29 CFR 1926 SUBPART R, SAFETY STANDARDS FOR STEEL ERECTION.
- 21. AS SCOPE AND PERFORMANCE DOCUMENTS, THE DRAWINGS AND SPECIFICATIONS DO NOT INDICATE OR DESCRIBE ALL OF THE WORK REQUIRED FOR THE PERFORMANCE AND COMPLETION OF THIS WORK. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE FABRICATION AND INSTALLATION OF ALL MISCELLANEOUS METAL ITEMS INDICATED, DESCRIBED, OR IMPLIED ON THE STRUCTURAL AND/OR THE ARCHITECTURAL DRAWINGS. MISCELLANEOUS STEEL ITEMS, WITHIN AN ASSEMBLY AND NOT ATTACHED TO THE STRUCTURE, ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND SUBCONTRACTORS WHETHER THEY ARE SHOWN OR NOT SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS. SUCH ASSEMBLIES INCLUDE BUT ARE NOT LIMITED TO, EXTERIOR AND INTERIOR WALLS, CEILINGS, PARTITIONS, SHELVES AND CABINETS, AND ALL OTHER SIMILAR ASSEMBLIES. ANY MISCELLANEOUS METAL ITEMS INDICATED ON THE ARCHITECTURAL DRAWINGS WITHOUT SIZES AND NOT SHOWN ON STRUCTURAL DRAWINGS SHALL BE A MINIMUM OF L4x4x1/2", C7x9.8, 3/8" PLATE OR HSS4x4x3/8" UNLESS OTHERWISE APPROVED BY THE STRUCTURAL ENGINEER.

#### **METAL ROOF DECK**

- 1. ROOF SYSTEM OVER STEEL FRAMING SHALL BE RIGID INSULATION BOARD ON 3" DEEP, TYPE NL GALVANIZED DECK (CONFORMING TO ASTM A924, WITH MINIMUM COATING CLASS OF G60 AS DEFINED IN ASTM A653) MANUFACTURED FROM COLD ROLLED STEEL AND CONFORMING TO ASTM A653 OR ASTM A611 WITH FY=50KSI. SEE 10/S-004 FOR ADDITIONAL DECK INFORMATION AND ATTACHMENT PATTERN.
- 2. PROPERTIES AND ALLOWABLE STRESSES OF STEEL ROOF DECKS SHALL BE BASE ON THE AISI "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS"
- STEEL DECK SHALL ALWAYS BE INSTALLED WITH DIRECTION OF FLUTES PERPENDICULAR TO SUPPORTING STEEL FRAMING MEMBERS. DECK SHALL BE CUT TO INSURE A MINIMUM OF TWO SPANS.

#### **SOILS** (TABLE 1705.6) **VERIFICATION AND INSPECTION INSPECTION FREQUENCY** CONTINUOUS PERIODIC VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE **DESIGN BEARING CAPACITY** VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS. AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.

#### **CONCRETE CONSTRUCTION** (TABLE 1705.3) **VERIFICATION AND INSPECTION INSPECTION FREQUENCY** CONTINUOUS | PERIODIC INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT REINFORCING BAR WELDING: a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A 706 b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM :. INSPECT ALL OTHER WELDS INSPECT ANCHORS CAST IN CONCRETE INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a. VERIFYING USE OF REQUIRED DESIGN MIX. Χ PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE

STRUCTURAL STEEL CONSTRUCTION

VERIFY MAINTENANCE OF SPECIFIED CURING

TEMPERATURE AND TECHNIQUES.

		(AISC 360)		
		VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
•		INSPECTION TASKS PRIOR TO WELDING (TABLE N5.4-1)	COMINOCOS	TERIODIC
	a.	WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	X	
	b.	WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE	X	
	c.	MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	X	
	d.	MATERIAL IDENTIFICATION (TYPE/GRADE)		Χ
	e.	WELDER IDENTIFICATION SYSTEM		Χ
	f.	FIT-UP GROOVE WELDS (INCLUDING JOINT GEOMETRY)		
		1) JOINT PREPARATION		Χ
		2) DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)		Х
		3) CLEANLINESS (CONDITION OF STEEL SURFACES)		Х
		4) TACKING (TACK WELD QUALITY AND LOCATION)		Х
		5) BACKING TYPE AND FIT (IF APPLICABLE)		Χ
	g.	FIT-UP of CJP GROOVE WELDS OF HSS T-, Y- AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY)		
		1) JOINT PREPARATIONS	Х	
		2) DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)	Х	
		3) CLEANLINESS (CONDITION OF STEEL SURFACES)	Х	
		4) TACKING (TACK WELD QUALITY AND LOCATION)	Х	
		5) BACKING TYPE AND FIT (IF APPLICABLE)	Х	
	h.	CONFIGURATION AND FINISH OF ACCESS HOLES		Х
	i.	FIT-UP OF FILLET WELDS		
		1) DIMENSIONS (ALIGNMENT, GAPS AT ROOT)		Х
		2) CLEANLINESS (CONDITION OF STEEL SURFACES)		Х
		3) TACKING (TACK WELD QUALITY AND LOCATION)		Х
	j.	CHECK WELDING EQUIPMENT		Х

		(AISC 360)		
		VERIFICATION AND INSPECTION	INSPECTION CONTINUOUS	PERIODIC
2.		INSPECTION TASKS DURING WELDING (TABLE		
	a.	N5.4-2)  CONTROL AND HANDLING OF WELDING  CONSUMABLES		
		1) PACKAGING		X
	b.	2) EXPOSURE CONTROL  NO WELDING OVER CRACKED TACK WELDS		X X
		ENVIRONMENTAL CONDITIONS		Λ
		1) WIND SPEED WITHIN LIMITS		X
		2) PRECIPITATION AND TEMPERATURE WPS FOLLOWED		Х
	<u></u>	1) SETTINGS ON WELDING EQUIPMENT		X
		2) TRAVEL SPEED  3) SELECTED WELDING MATERIALS		X
		4) SHIELDING GAS TYPE/FLOW RATE		Χ
		5) PREHEAT APPLIED  6) INTERPASS TEMPERATURE MAINTAINED		X
		(MIN/MAX)		Х
	е.	7) PROPER POSITION (F,V,H,OH) WELDING TECHNIQUES		Х
	ъ.	1) INTERPASS AND FINAL CLEANING		Χ
		2) EACH PASS WITHIN PROFILE LIMITATIONS		Χ
	f.	3) EACH PASS MEETS QUALITY REQUIREMENTS PLACEMENT AND INSTALLATION OF STEEL		Х
3.		HEADED STUD ANCHORS INSPECTION TASKS AFTER WELDING (TABLE	X	
	a.	N5.4-3) WELDS CLEANED		X
		SIZE, LENGTH AND LOCATION OF WELDS	Х	
	C.	WELDS MEET VISUAL ACCEPTANCE CRITERIA	<b>V</b>	
		1) CRACK PROHIBITION 2) WELD/BASE-METAL FUSION	X	
		3) CRATER CROSS SECTION	Х	
		4) WELD PROFILES 5) WELD SIZE	X	
		6) UNDERCUT	X	
		7) POROSITY	Х	
		ARC STRIKES K-AREA	X	
	e. f.	BACKING REMOVED AND WELD TABS REMOVED		
		(IF REQUIRED)	X	
	g. h.	REPAIR ACTIVITIES  DOCUMENT ACCEPTANCE OR REJECTION OF	X	
	i.	WELDED JOINT OR MEMBER  NO PROHIBITED WELDS HAVE BEEN ADDED	X	
١.		WITHOUT THE APPROVAL OF THE EOR INSPECTION TASKS PRIOR TO BOLTING (TABLE		X
	a.	N5.6-1)  MANUFACTURER'S CERTIFICATION AVAILABLE		
		FOR FASTENER MATERIALS	Х	
	b.	FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS		Χ
	C.	PROPER FASTENERS SELECTED FOR JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO		Х
	d.	BE EXCLUDED FROM SHEAR PLANE) PROPER BOLTING PROCEDURE SELECTED FOR		
	ч.	JOINT DETAIL		Х
	e.	CONNECTING ELEMENTS, INCLUDING APPROPRIATE FAYING SURFACE CONDITION		
		AND HOLE PREPARATION, IF SPECIFIED, MEET		Х
	f.	APPLICABLE REQUIREMENTS  PRE-INSTALLATION VERIFICATION TESTING BY		
		INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED		X
	g.	PROPER STORAGE PROVIDED FOR BOLTS, NUTS,		Х
5.	-	WASHERS, AND OTHER FASTENER COMPONENTS INSPECTION TASKS DURING BOLTING (TABLE		
		N5.6-2) FASTENER ASSEMBLIES PLACED IN ALL HOLES		
	a.	AND WASHERS AND NUTS ARE POSITIONED AS		Χ
	h	REQUIRED  JOINT BROUGHT TO THE SNUG-TIGHT		
	b.	CONDITION PRIOR TO PRETENSIONING OPERATIONS		Х
	C.	FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING		Χ
	d.	FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES		Х
<u> </u>		INSPECTION TASKS AFTER BOLTING		
	a.	DOCUMENT ACCEPTANCE OR REJECTION OF	Х	
7.		OTHER STEEL INSPECTIONS (SECTION N5.7)		
•	a.	VERIFICATION AND DOCUMENTATION OF		
		DIAMETER, GRADE, TYPE AND LENGTH OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL	X	
	b.	VERIFICATION OF THE FABRICATED STEEL OR ERECTED STEEL FRAME TO COMPLY WITH DETAILS SHOWN ON CONSTRUCTION		Х

DETAILS SHOWN ON CONSTRUCTION

DOCUMENTS

STRUCTURAL STEEL CONSTRUCTION

ISSUE/REVISIONS
# DESCRIPTION DA

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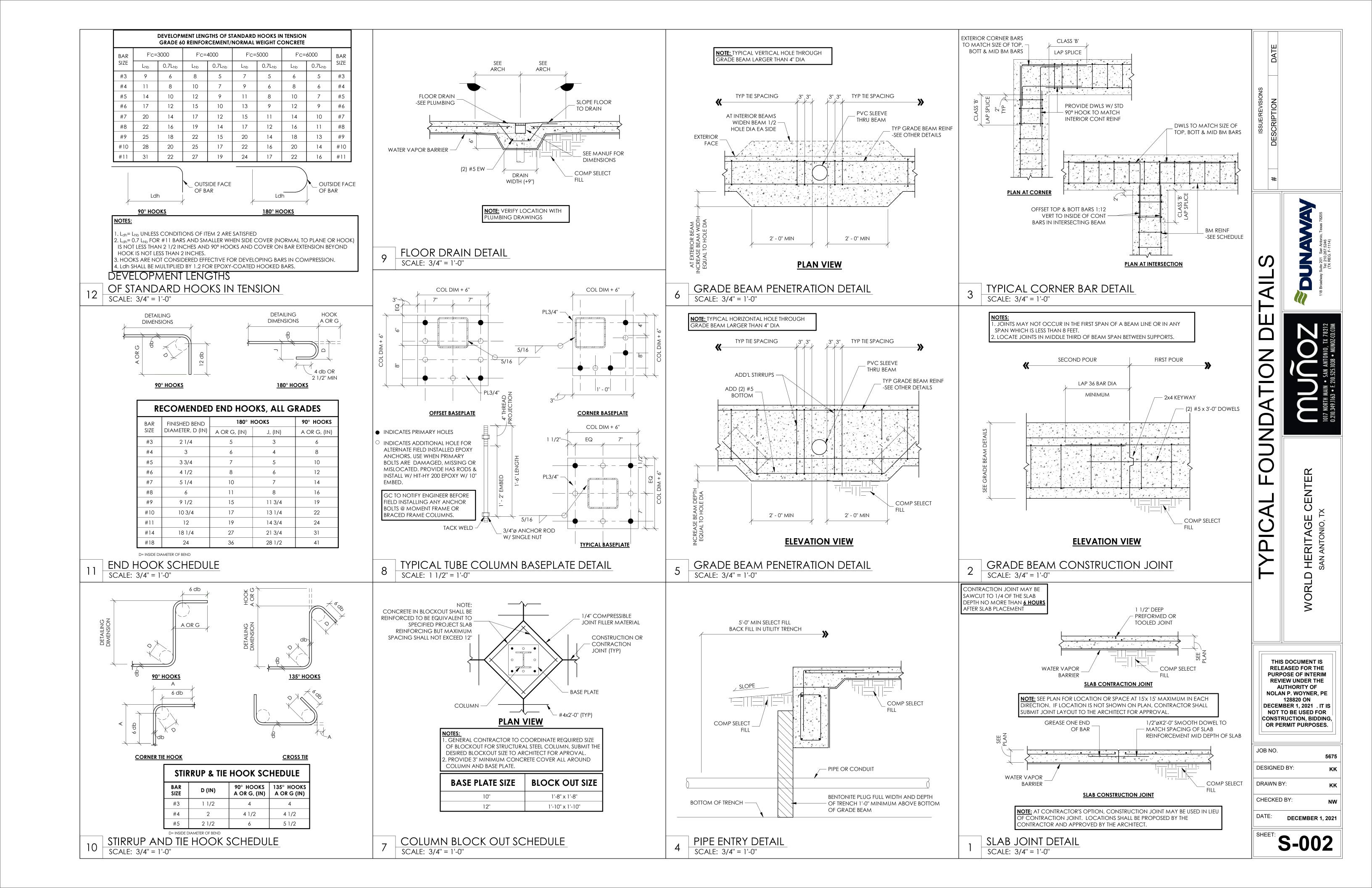
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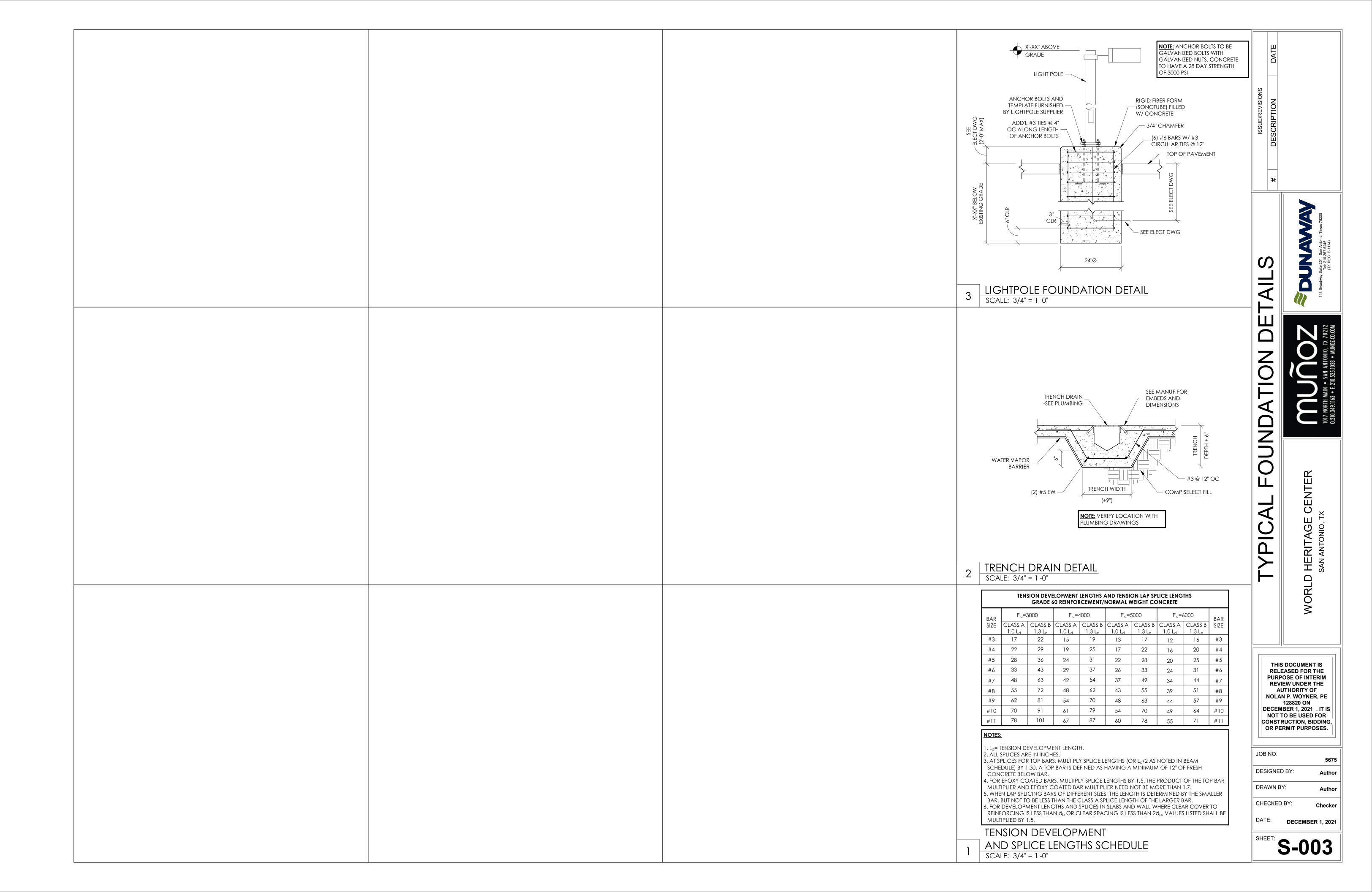
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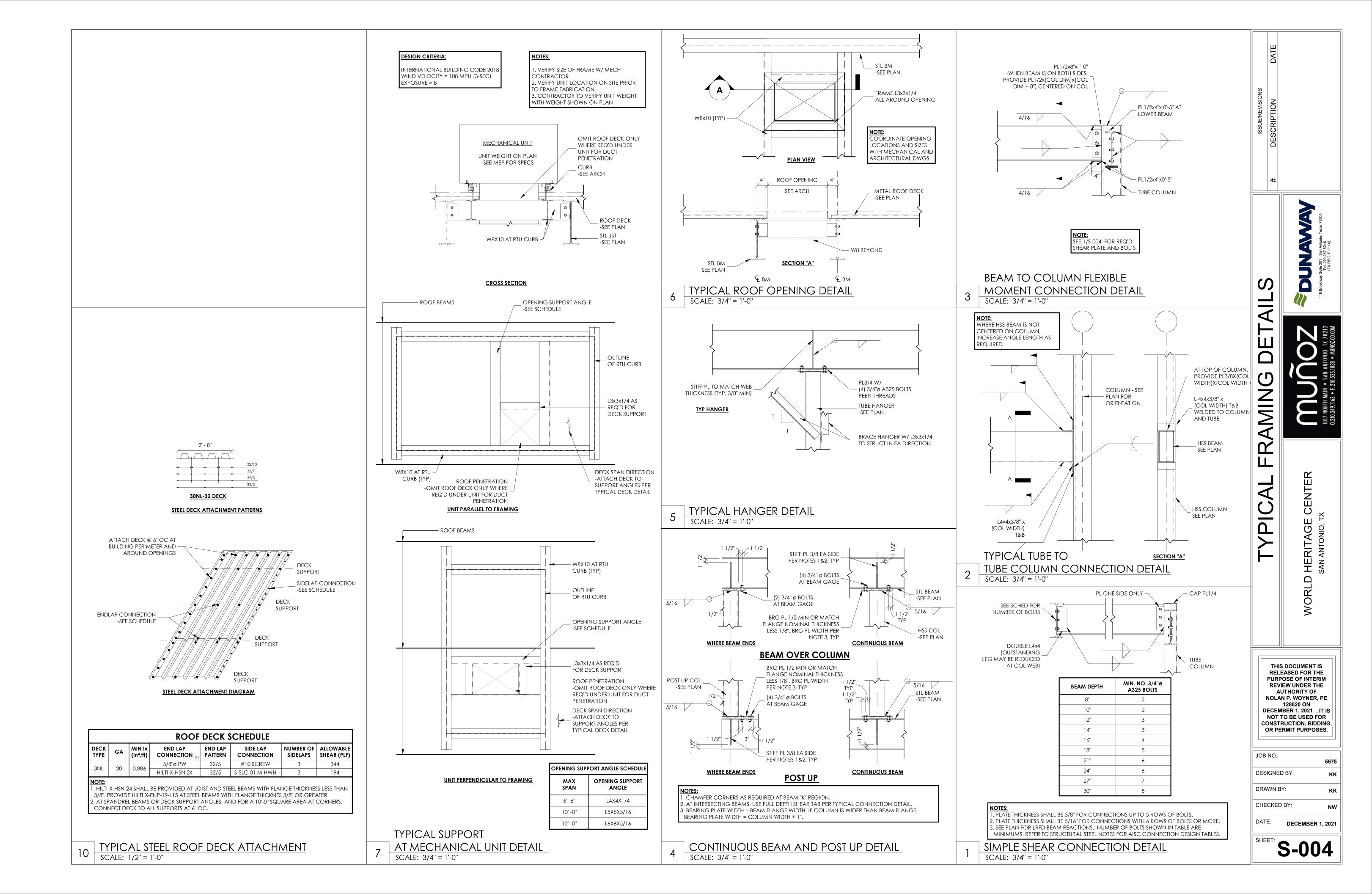
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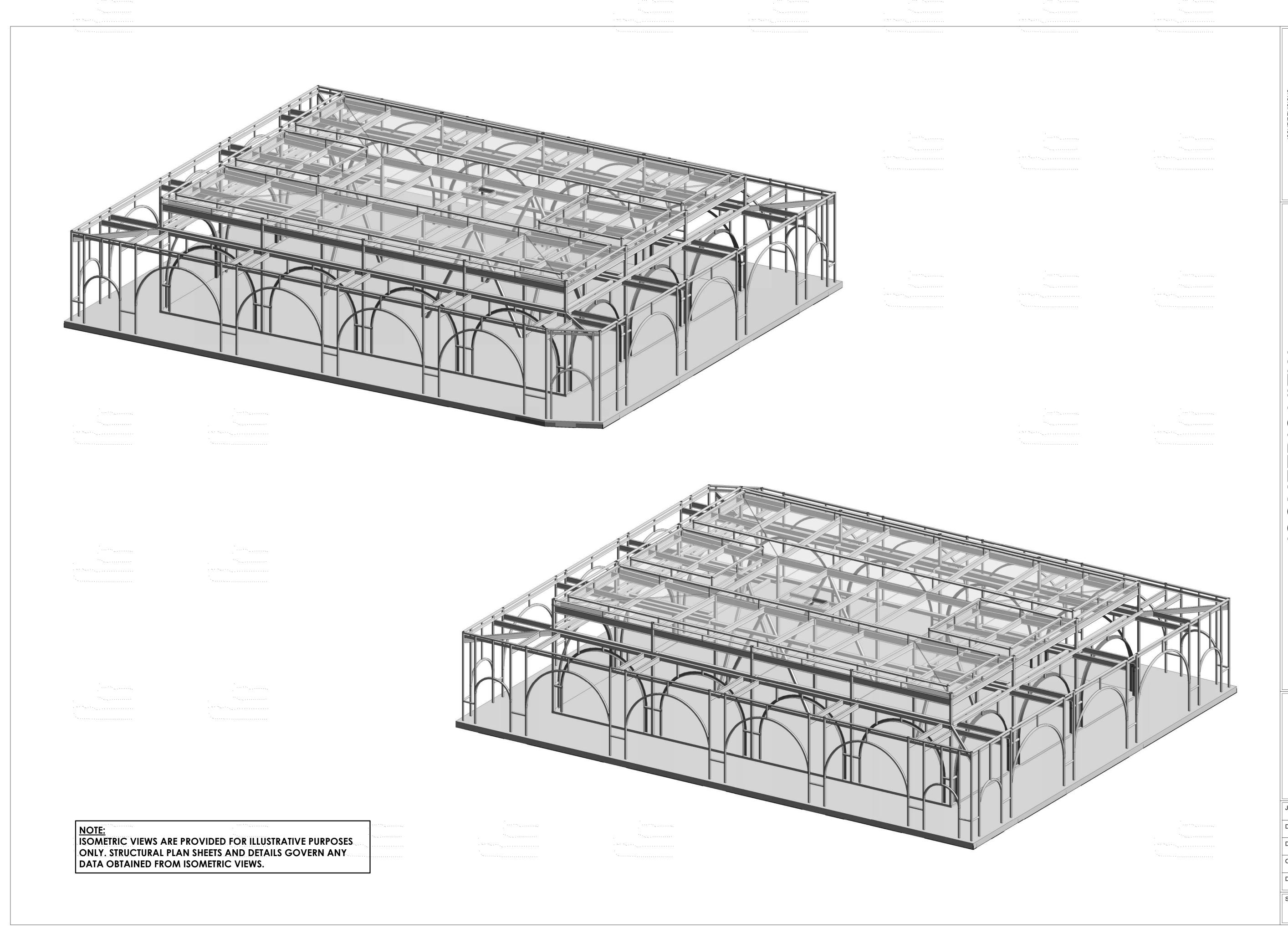
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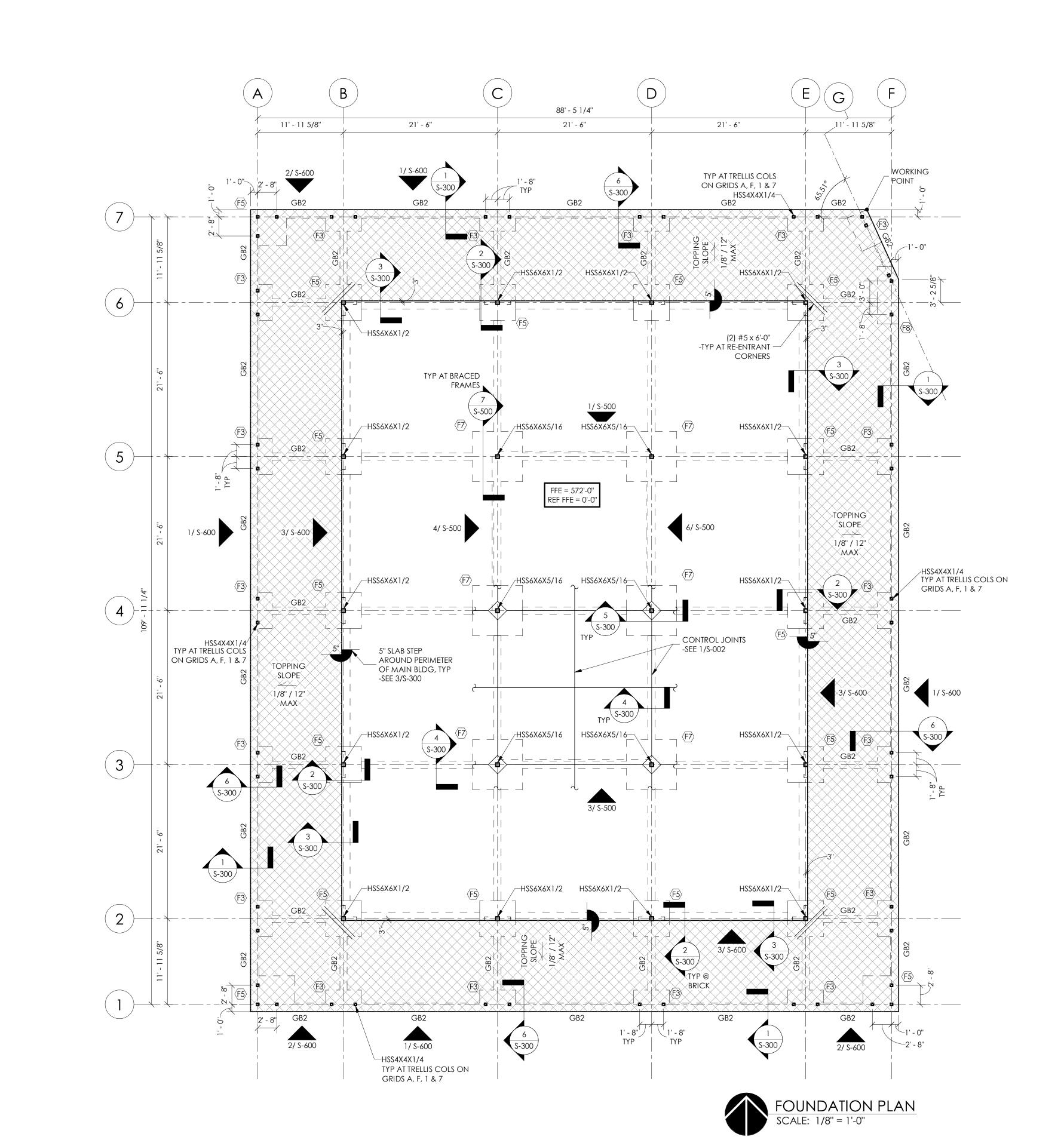
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CHECKED BY: NW

DATE: DECEMBER 1, 2021

SHEET: COOF



**SLAB ON GRADE NOTE:** 

-SEE SOIL REPORT

MARK LENGTH

5'-0''

7'-0''

8'-0''

GRADE PER FOUNDATION DETAILS

X/SX.X

INDICATES STEEL

COLUMN - SEE 8/S-002 -FOR BASE PLATE DETAIL

5" THICK CONCRETE SLAB ON GRADE W/ #3 @ 14" OC EA WAY ON 3" HIGH

CHAIRS @ 42" OC EA WAY. PLACE SLAB ON 15 MIL PLASTIC WATER VAPOR BARRIER OVER COMPACTED SELECT FILL

SPREAD FOOTING SCHEDULE

(\*) BOTTOM OF EXTERIOR FOOTINGS SHALL BE 36" MIN BELOW FINAL ADJACENT

5'-0''

7'-0''

3'-0"

INDICATES TOPPING SLAB OVER STRUCTURAL SLAB PER ARCH

INDICATES VERTICAL BRACING

SEE ELEVATIONS S-500

-SEE 9/S-002

INDICATES FLOOR DRAIN

**PLAN LEGEND** 

**FOOTING LEGEND** 

2'-7''

2'-2"

2'-7'' \*

THICKNESS BTM REINFORCING
2'-7" #5 @ 6" OC EA WAY

INDICATES SPREAD FOOTING

SEE THIS SHEET FOR SCHEDULE

(11) #5 EA WAY

(13) #5 EA WAY

#5 @ 6" OC EA WAY



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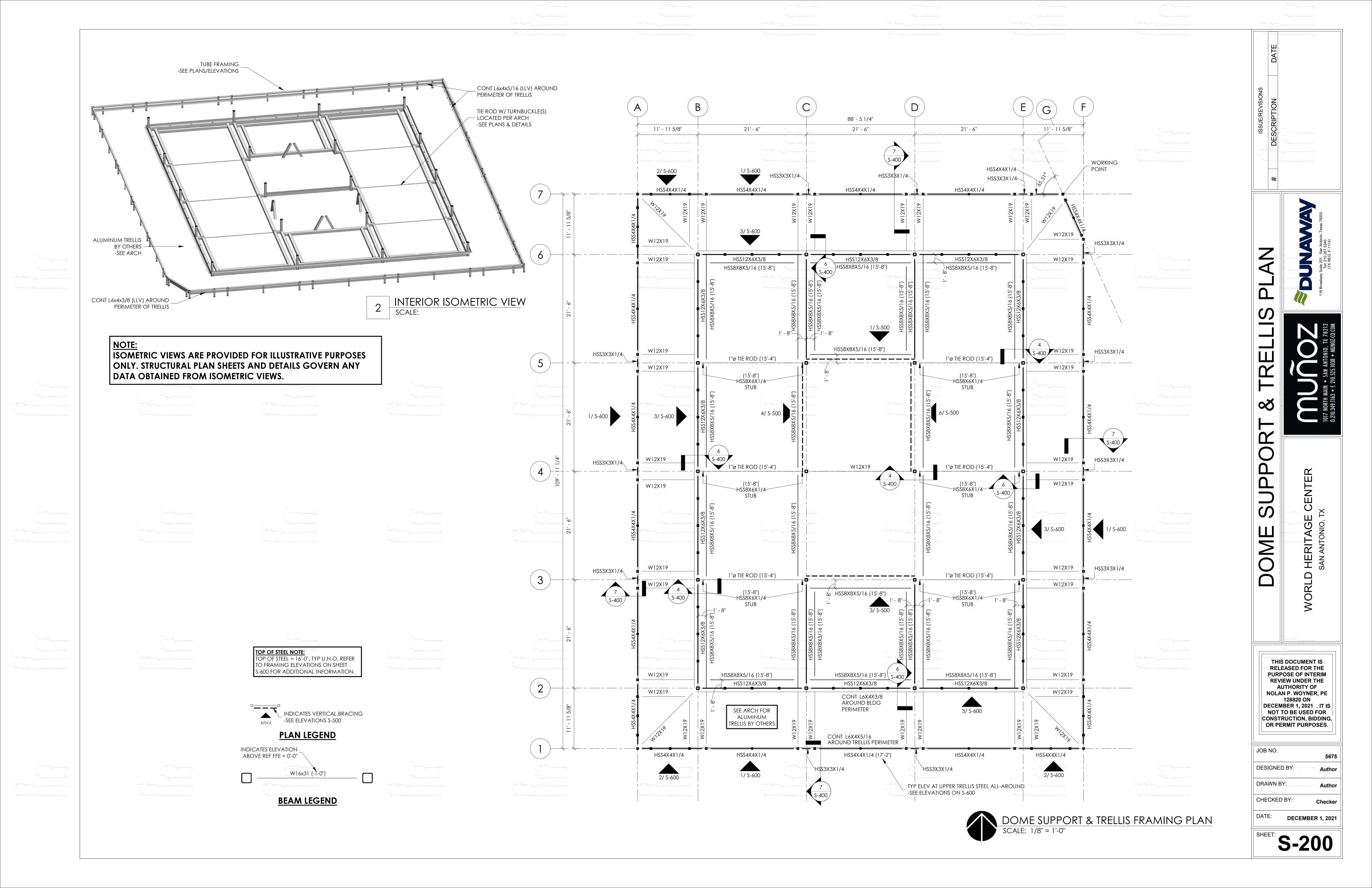
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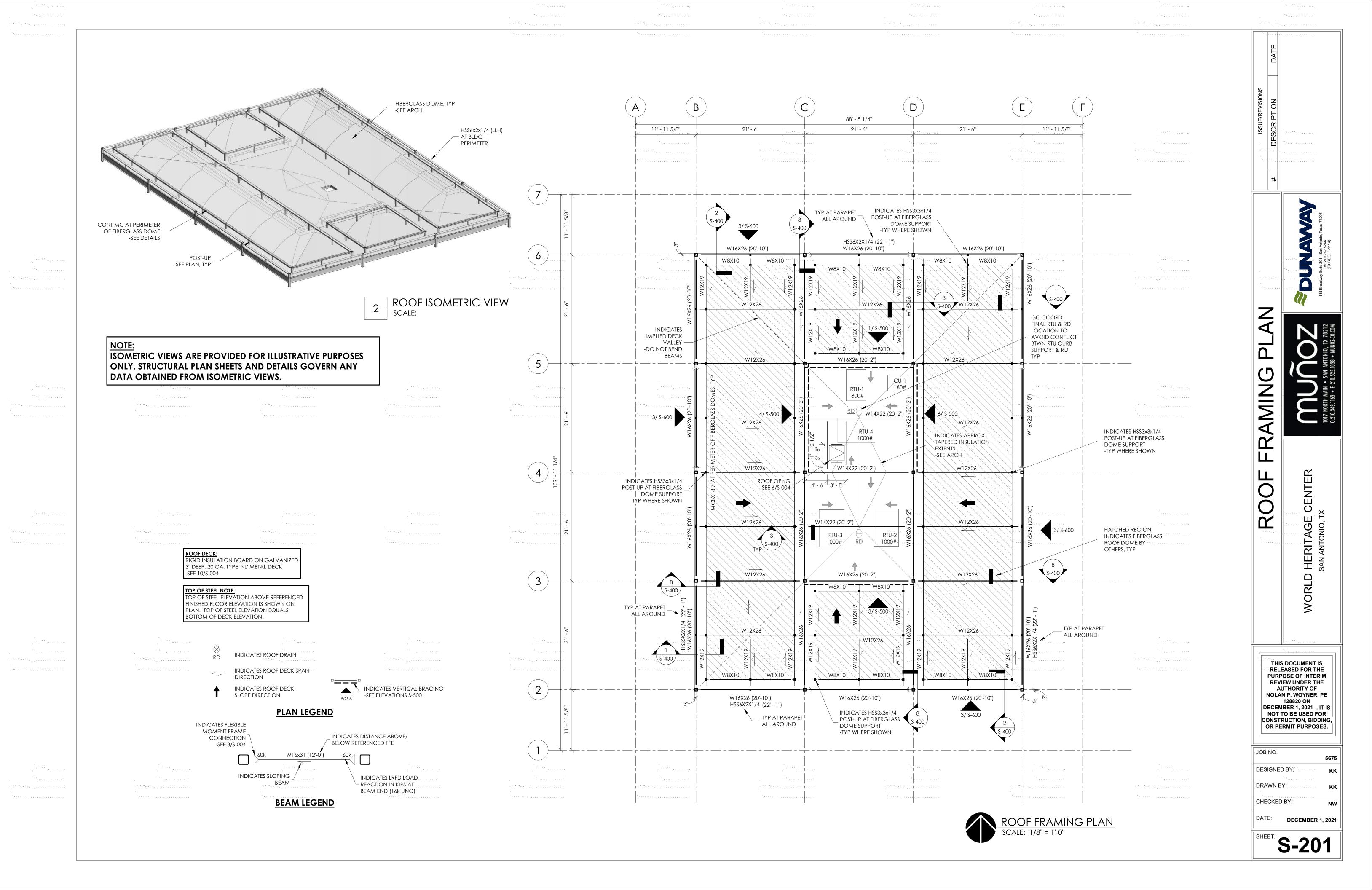
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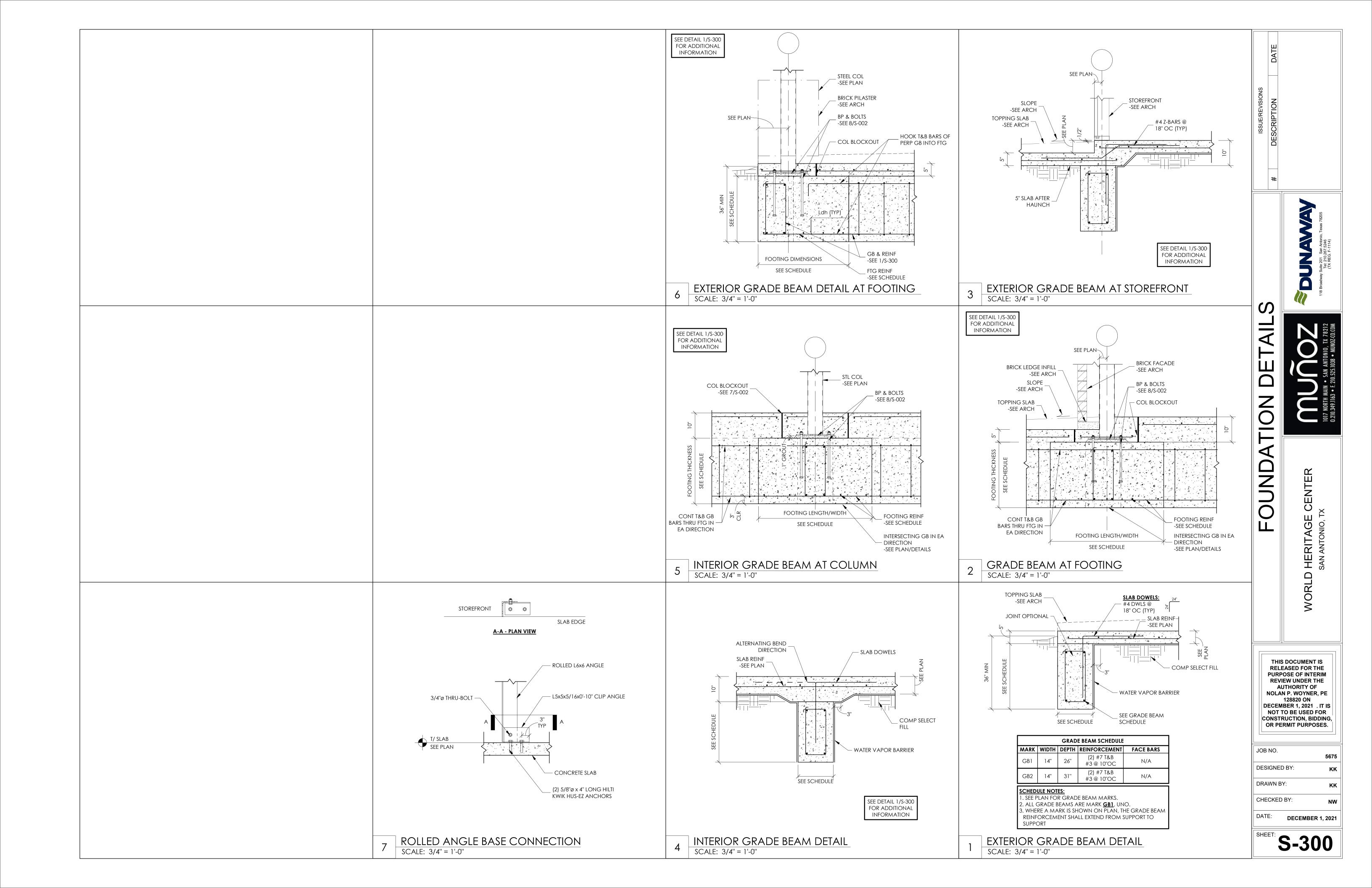
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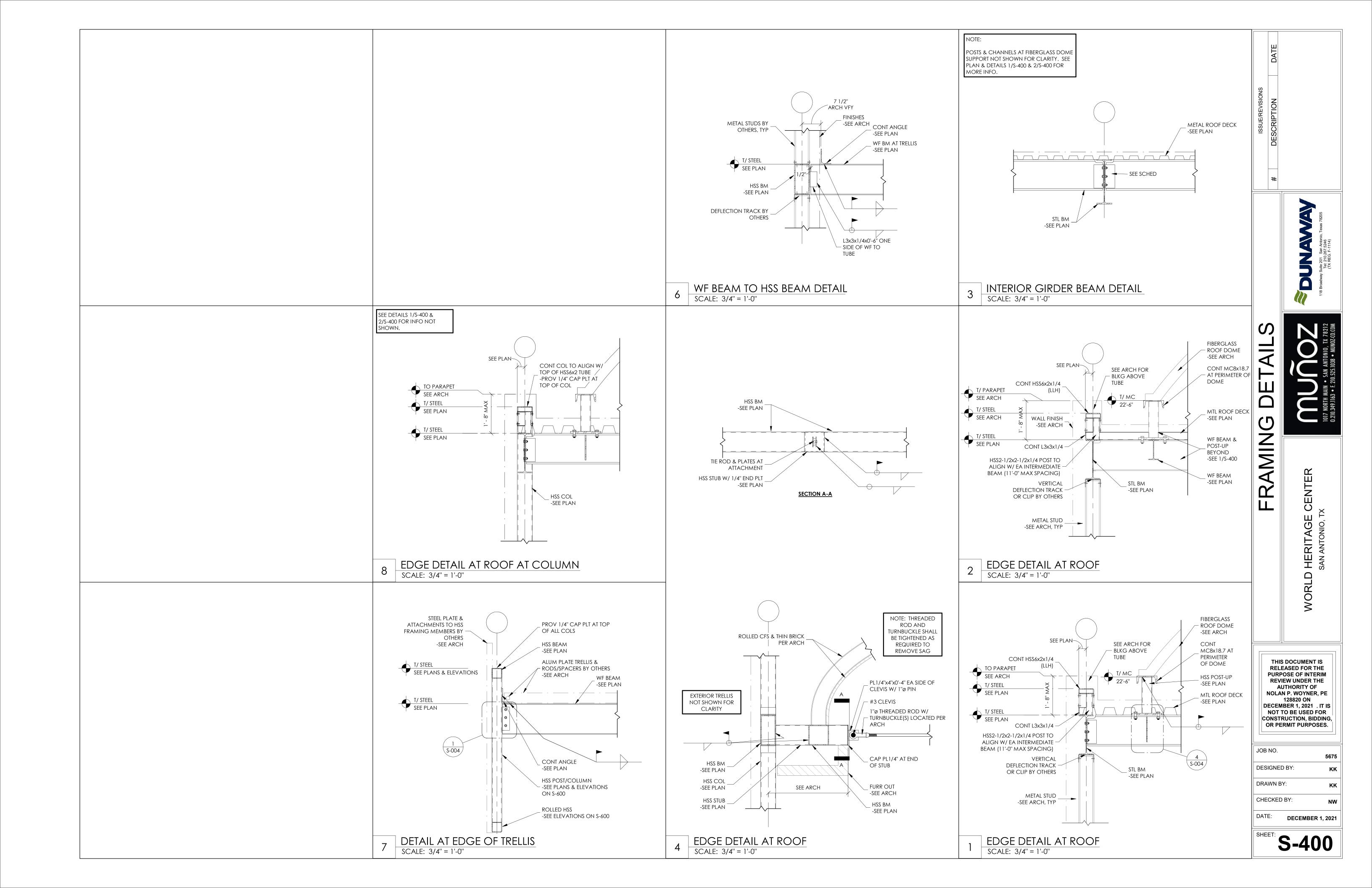
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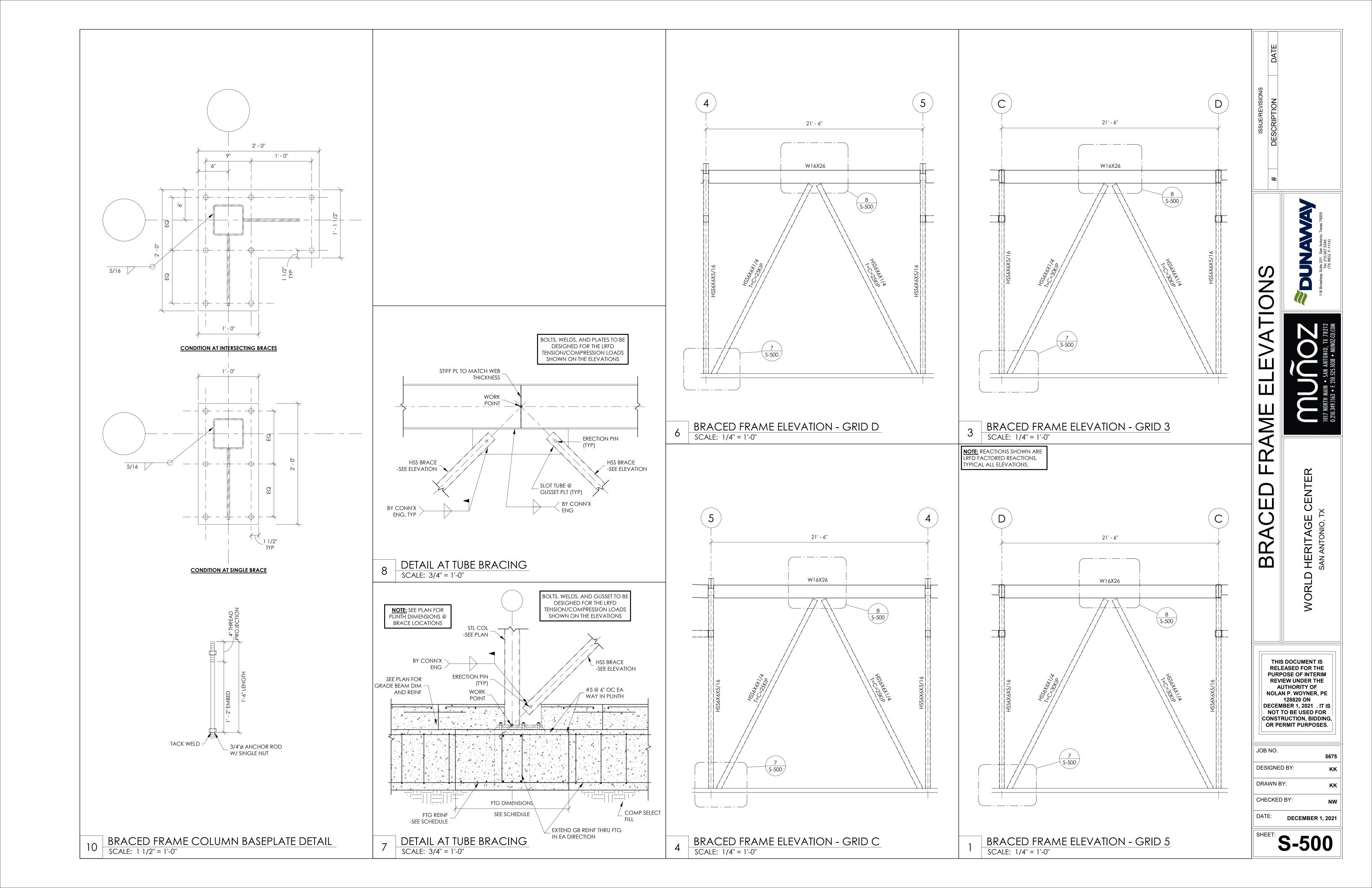
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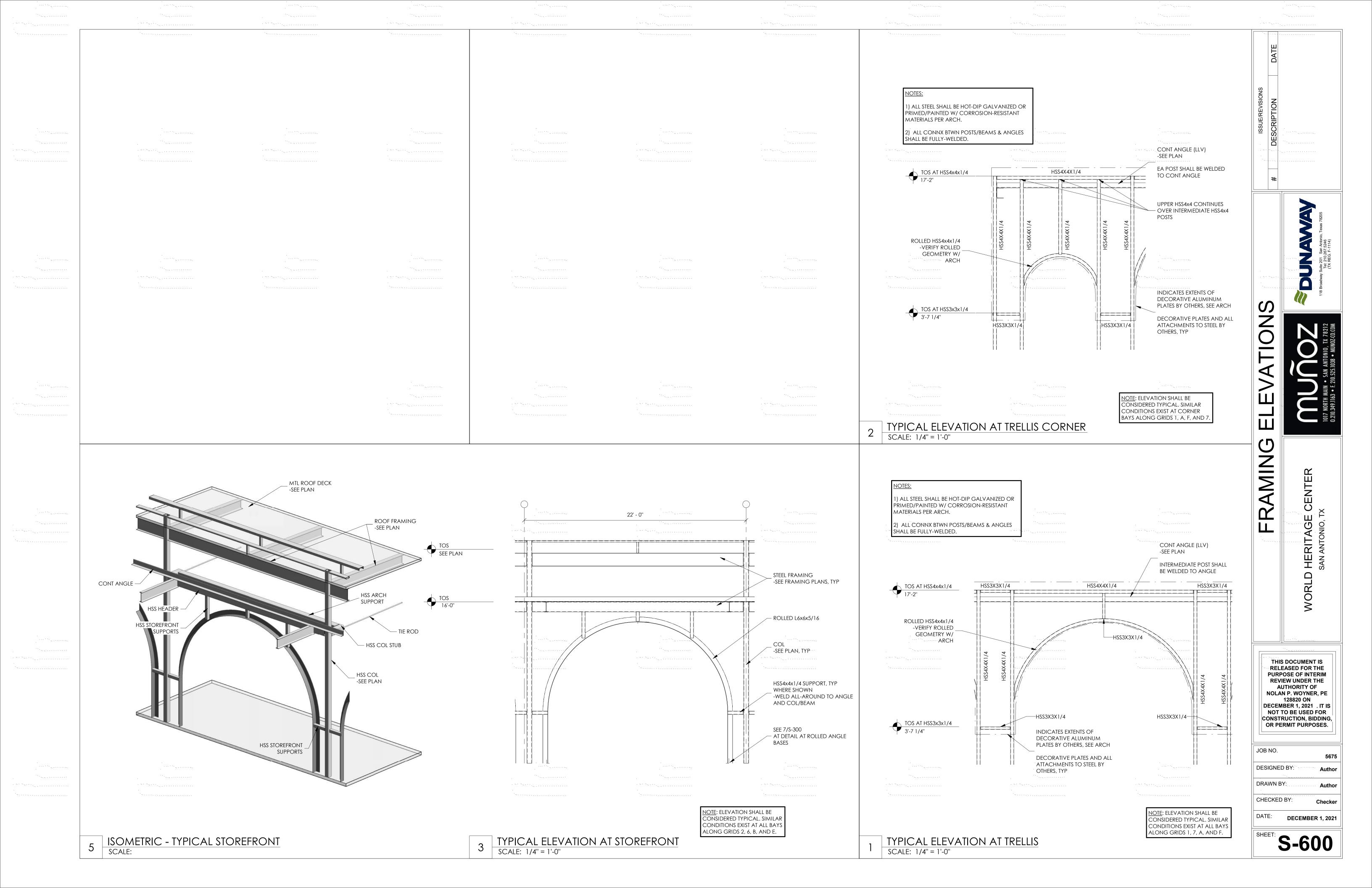


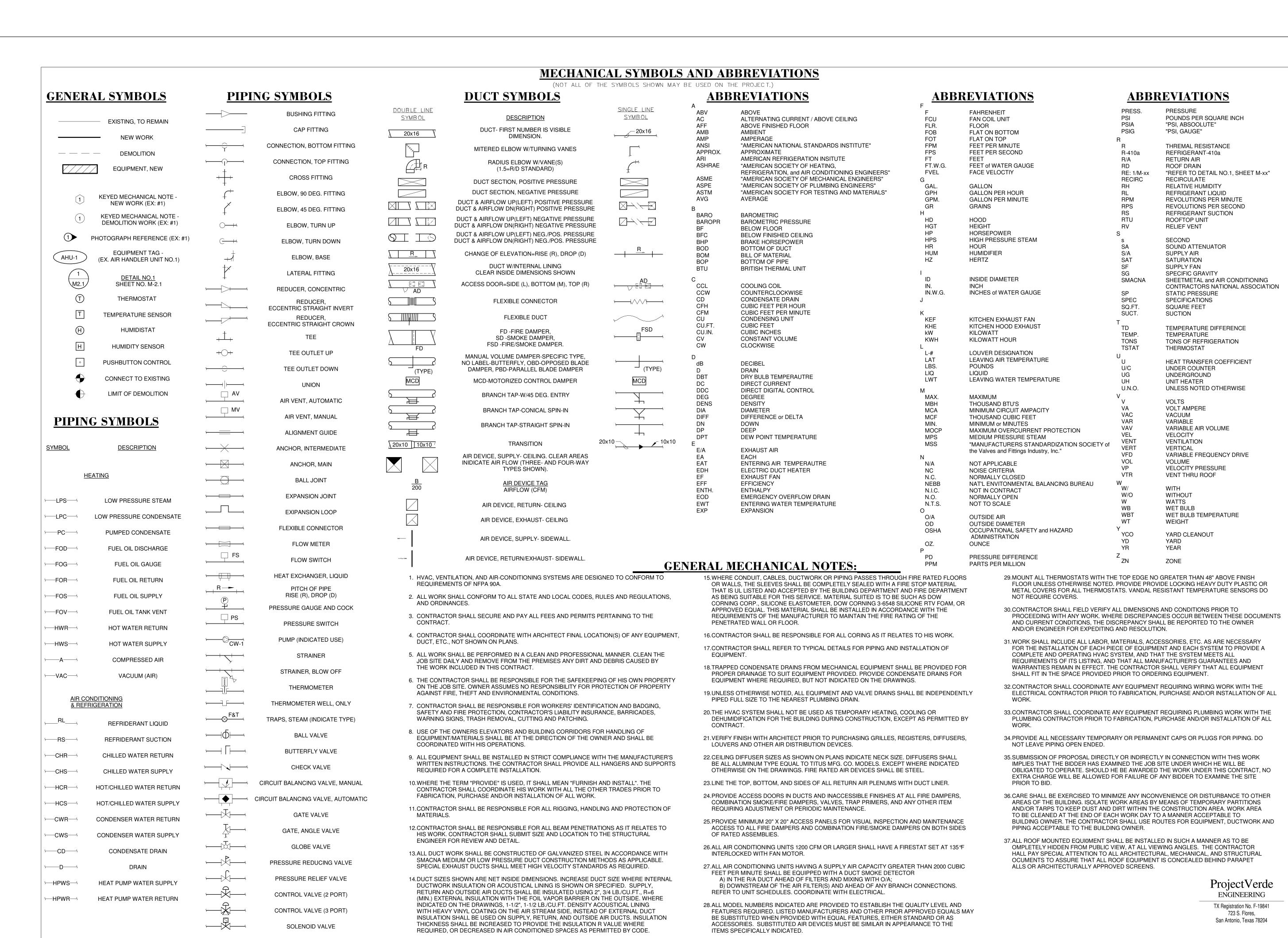








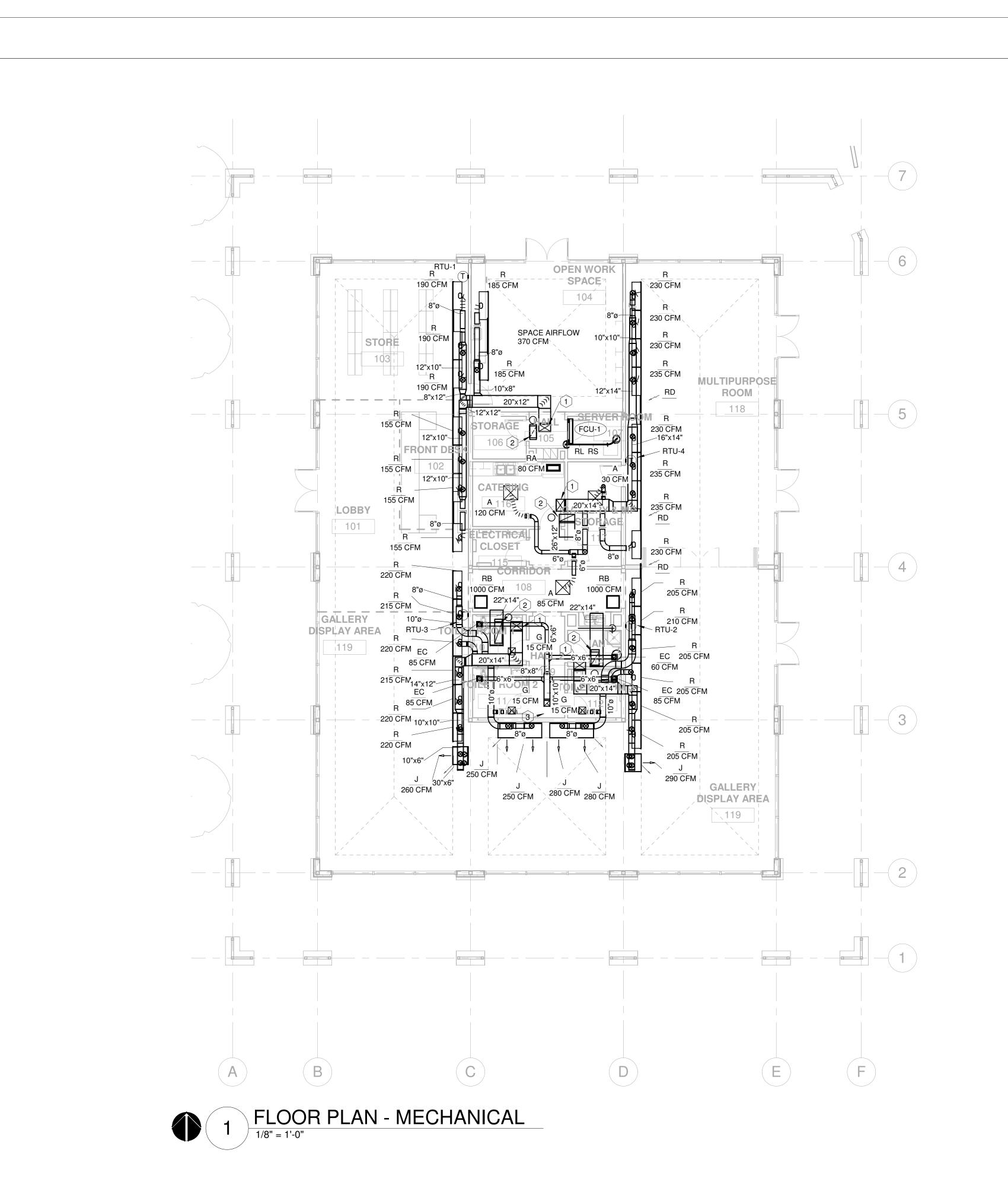




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XAS LIC. NO. 635

JOB NO. A19021.00 DESIGNED BY: AW DRAWN BY: CHECKED BY: **JMD** DATE: 12/1/2021



#### **GENERAL NOTES:**

PROVIDE COPPER CONDENSATE DRAIN PIPE FROM ALL A/C EQUIPMENT AND ROUTE TO MOP SINK IN RM.113 JANITOR'S CLOSET.

#### KEYED # NOTES: (THIS SHEET ONLY)

1. SUPPLY AIR DUCT DOWN FROM ROOF MOUNTED A/C UNIT.

2. RETURN AIR DUCT UP TO ROOF MOUNTED A/C UNIT.

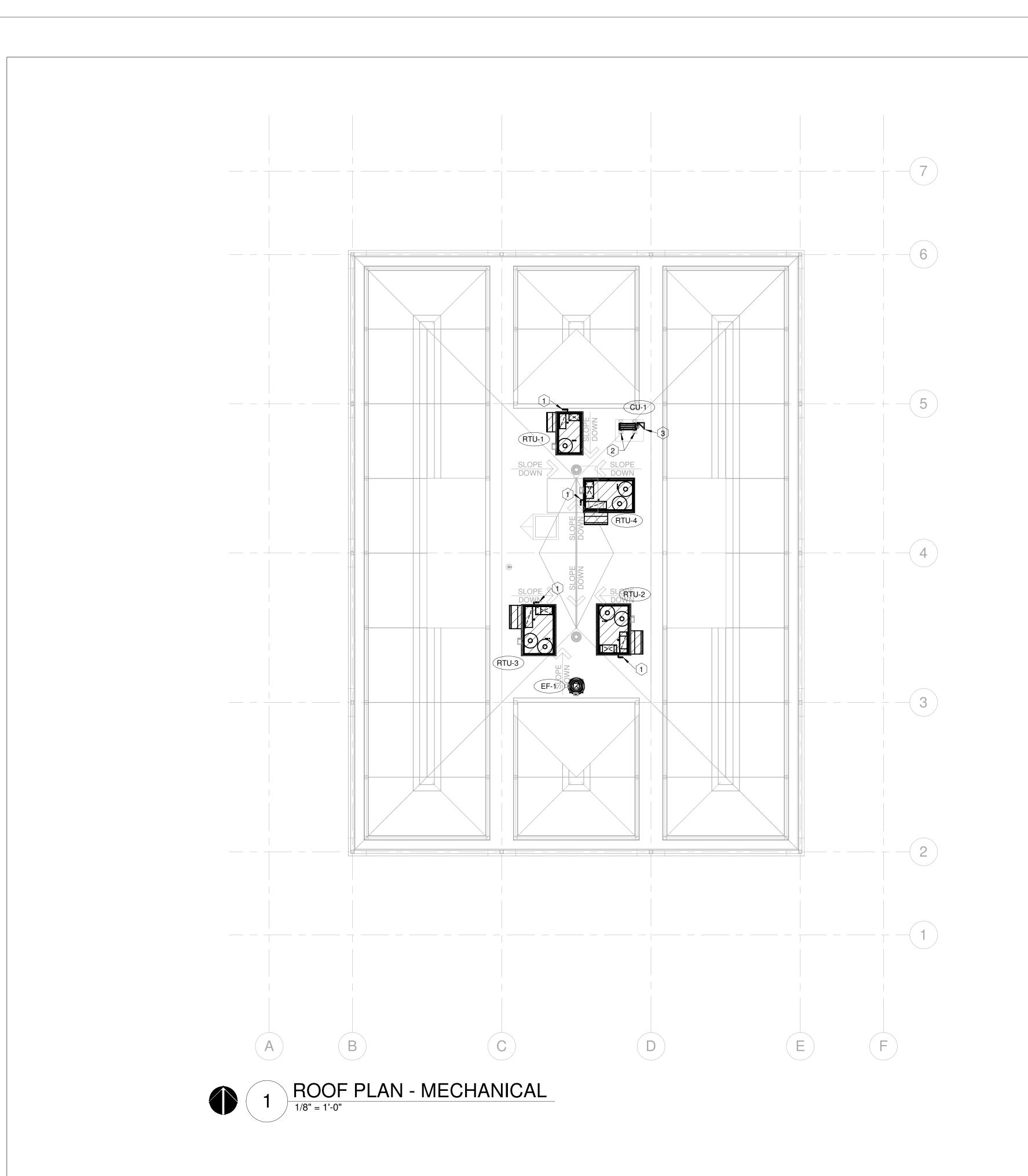
3. EXHAUST AIR DUCT UP TO ROOF MOUNTED EXHAUST FAN.



INTENDED FOR PERMIT

	JOB NO.	A19021.00
	DESIGNED BY:	AW
	DRAWN BY:	AW
	CHECKED BY:	JMD
_	DATE:	12/1/2021
	SHEET: M-	201

0' 2' 4' 8' SCALE: 1/8" = 1' - 0"



#### KEYED # NOTES: (THIS SHEET ONLY)

- 1. 3/4" CONDENSATE PIPE DOWN THROUGH THE ROOF.
- 2. PROVIDE 18" HIGH EQUIPMENT SUPPORT RAIL SECURED TO ROOF DECK.
- 3. REFRIGERANT PIPE PAIR (RS/RL) DOWN THROUGH THE ROOF.



DOCUMENT INCOMPLETE
NOT INTENDED FOR PERMITTIN
BIDDING, OR CONSTRUCTION
JAMES M. DREWRY
TEXAS LIC. NO. 63512
November 23, 2021

	JOB NO.	A19021.00
	DESIGNED BY:	AW
	DRAWN BY:	AW
	CHECKED BY:	JMD
_	DATE:	12/1/2021
	SHEET: M-	202

TX Registration No. F-19841 723 S. Flores, San Antonio, Texas 78204

ProjectVerde ENGINEERING 0' 2' 4' 8' SCALE: 1/8" = 1' - 0"

#### PACKAGED ROOFTOP UNIT SCHEDULE NOMINAL VOLTS/ MIN. MAX. APPROX. COOLING CAP. PHASE/ CIRCUIT OVERCURRENT OPERATING (TONS) HZ AMPS PROTECTION WEIGHT (LBS.) TYPE COMPRESSORS CIRCUITS UNLOADING (DEG.F) (DEG.F) (DEG.F) SUPPLY FAIN EXT. STATIC OUTSIDE AIR | FAN | APPROX. | MOTOR | MIN. | TOTAL | MIN. SENSIBLE | MIN. EER | DESIGN EER | ENTERING AIR | LEAVING AIR | MIN. | MAX. FINS | MIN. HEATING | ENTERING | LEAVING | ELECTRIC | STAGES | MANUFACTURER | MODEL NO. | TYPE (CFM) (IN.W.G.) (CFM) | TYPE (RPM) | BRAKE HP (HP) (SQ.FT.) (MBH) (MBH) (CONDITIONS | CONDITIONS | CO NOTES: 1- PROVIDE 14" HIGH ROOF CURB. 4- PROVIDE SINGLE POINT POWER CONNECTION.

2- PROVIDE VFD FOR SUPPLY FAN MOTOR FOR TWO SPEED OPERATION.
3- PROVIDE MOTORIZED OUTSIDE AIR DAMPERS.

CO	NDEN	SING UNIT S	CHEDI	JLE																			
TAG	SERVICE	TYPE	NOMINAL CAPACITY (TONS)	REFRIG. TYPE	NO. OF REFRIG. CIRCUITS		PIPE LENGTH TO	STEPS OF UNLOADING	MIN. SUCTION TEMP. (DEG.F)	MAX. CONDENSING TEMP.(DEG.F)	MIN. SEER			MAX. OVERCURRENT PROTECTION	AMB. TEMP. (DEG.F)	AIR COOLED CON MIN. OPERATING TEMP.(DEG.F)		FAN MOTOR SIZE (HP)	CONTRACTOR CONTRACTOR	UNIT APPROX. OPERATING WEIGHT(LBS.)	MANUFACTURER	MODEL	NOTES
CU-1	FCU-1	AIR COOLED, SCROLL	2.0	R-410a	1	15	30	1	50	125	14.0	208/ 1/ 60	18.0	30	95	20	1	0.10	208/1	180	MITSUBISHI	PUY-A24NHA6	1,2,3,4,5
NOTES:	1 - ACTUAL	COOLING CAPACITY OF			E FOR MATCHING		RFORMANCE SCH	EDULED. ASS	UME 2 DEG.F SUCT	ION LINE LOSS.								i d			19		

6- PROVIDE WITH BORDER FLANGE AND DUCT MOUNTING (TYPE 1B).

2- RATING CONDITIONS: INDOOR ENTERING COIL: 80 °F DB / 67 °F WB; OUTDOOR: 95 °F DB. 3- INDOOR UNIT RECEIVES POWER THROUGH THE OUTDOOR UNIT.

4- PROVIDE WIND BAFFLE FOR OPERATION AT 0 °F.

5- PROVIDE WITH EXTERNAL SERVICE VALVES WITH SERVICE PORT.

FAI	COIL UNIT SCHE	DULE																													_
TAG	SERVICE	TYPE	MIN. O/A QTY. (CFM)	NO-ANALYSIS	AIRFLOW (CFM)	EXT, STATIC PRESSURE (IN.W.G.)	DRIVE TYPE TYPE	SPEED	MIN. MOTOR SIZE (HP)	MOTOR SPEED (RPM)	VOLTS/ PHASE/ HZ	TYPE		MIN. FACE AREA (SQ.FT.)		SENSIBLE	DB	NG AIR WB ) (DEG.F)	DB	WB	MIN.	MAX. FINS PER INCH	AMPACITY	MAX. OVERCURRENT PROTECTION (AMPS)	OPERATING	MAXIMUN UNIT DIM LENGTH (IN.)	ENSIONS	3_		MODEL	NOTES
FCU-1	SERVER-IDF RM	DUCTLESS, WALL	N/A	FC	635	N/A	DIRECT	MED.	56 W	MED.	24DC	DX-410A	635	3.8	24.0	17.1	80.0	67.0	55.0	54.5	2	15	1.0	15	60	11.63	46.06	14.38	MITSUBISHI	PKA-A24KA	1,2,3,4,5
NOTES:	EQUIPMENT SELECTIONS MADE AT 1- COMPONENTS ARE- FILTER RACK 2- PROVIDE INTREGRAL CONDENSA 3- REFER TO DRAWINGS FOR LOCA 4- PROVIDE AN ECM MOTOR FOR SU 5- PROVIDE A PROGRAMMABLE THE	(, COOLING COIL, FAN TE PUMP. TION OF COIL CONNEC JPPLY FAN.	SECTION(S	ON. B).		EL.		<u> </u>								-															

			FACE	NECK SIZE	FACE SIZE	AIRFLOW	THROW *	NOISE				
TAG	SERVICE	TYPE	APPEARANCE	(IN.)	(IN.)	RANGE (CFM)	(FT.)	CRITERIA (NC)	MATERIAL	FINISH	MODEL	NOTE
Α	SUPPLY	CEILING, LAY-IN	LOUVERED	6" DIA.	24 x 24	1 - 120	3	<12	ALUMINUM	WHITE	TMS-AA	1,2,3
В	SUPPLY	CEILING, LAY-IN	LOUVERED	8" DIA.	24 x 24	121 - 250	5	<16	ALUMINUM	WHITE	TMS-AA	1,2,3
С	SUPPLY	CEILING, LAY-IN	LOUVERED	10" DIA.	24 x 24	251 - 440	7	<23	ALUMINUM	WHITE	TMS-AA	1,2,3
G	SUPPLY	CEILING, SURFACE	LOUVERED	6" DIA.	12 x 12	1 - 120	3	<15	ALUMINUM	WHITE	TMS-AA	1,2,3
Н	SUPPLY	CEILING, SURFACE	LOUVERED	8" DIA.	12 x 12	121 - 250	5	<20	ALUMINUM	WHITE	TMS-AA	1,2,3
J	SUPPLY	SIDEWALL	BLADE, 0.75" o.c.	30 x 6	32 x 8	0 - 300	10 @45°	<25	ALUMINUM	WHITE	300FL	1
R	SUPPLY	SIDEWALL	1" LINEAR SLOT(2)	8" DIA.	5.25 x 48	121 - 240	27	<30	ALUMINUM	WHITE	ML-39	5,6
S	SUPPLY	SIDEWALL	1" LINEAR SLOT(2)	10" DIA.	5.25 x 80	241 - 420	27	<30	ALUMINUM	WHITE	ML-39	5,6
RA	RETURN	CEILING, LAY-IN	GRID- 0.5"x0.5"	8 x 20	12 x 24	0 - 600		<20	ALUMINUM	WHITE	50F	
RB	RETURN	CEILING, LAY-IN	GRID- 0.5"x0.5"	20 x 20	24 x 24	601 - 1750		<20	ALUMINUM	WHITE	50F	T .
RC	RETURN	CEILING, SURFACE	GRID- 0.5"x0.5"	10 x 10	11.8 x 11.8	0 - 430		<20	ALUMINUM	WHITE	50F	
RD	RETURN	SIDEWALL	1" LINEAR SLOT(2)	3.5 x (L)	5.25 x (L)	95 cfm / ft.		<30	ALUMINUM	WHITE	MLR-39	
EA	EXHAUST	CEILING, LAY-IN	GRID- 0.5"x0.5"	8 x 20	12 x 24	0 - 600	0	<20	ALUMINUM	WHITE	50F	
EB	EXHAUST	CEILING, LAY-IN	GRID- 0.5"x0.5"	20 x 20	24 x 24	601 - 1750		<20	ALUMINUM	WHITE	50F	
EC	EXHAUST	CEILING, SURFACE	GRID- 0.5"x0.5"	10 x 10	11.8 x 11.8	0 - 430		<20	ALUMINUM	WHITE	50F	

NOTES: \* - BASED ON TERMINAL VELOCITY OF 100 FPM MANUFACTURER REFERENCED IS TITUS.

1 - MOUNTING FRAMES SHALL BE SUITABLE FOR SECURING TO THE CONSTRUCTION MATERIAL.

2 - THROW PATTERNS SHALL BE FOUR (4) WAY UNLESS NOTED OTHERWISE ON DRAWINGS.

3 - PROVIDE ROUND TO SQUARE OR ROUND TO ROUND TRANSITION WHEN REQUIRED.

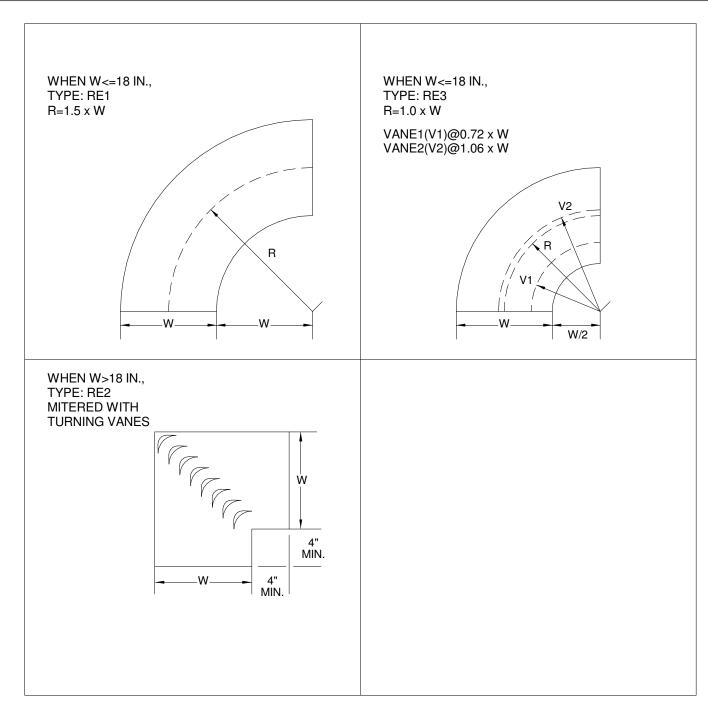
4 - PROVIDE OPPOSED BLADE DAMPER.

5- PROVIDE SHEETMETAL PLENUM WITH INTERNAL INSULATION (MODEL MPI-39).

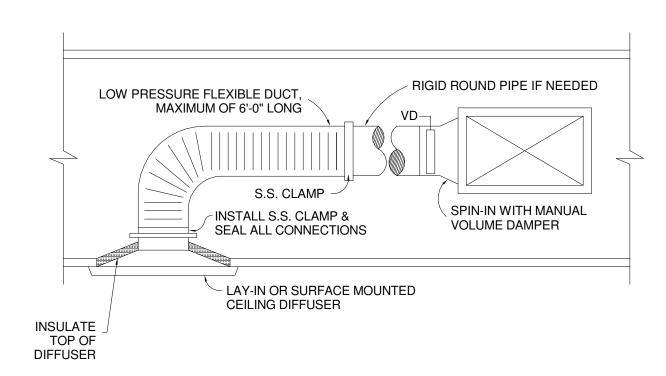
MECHANIC

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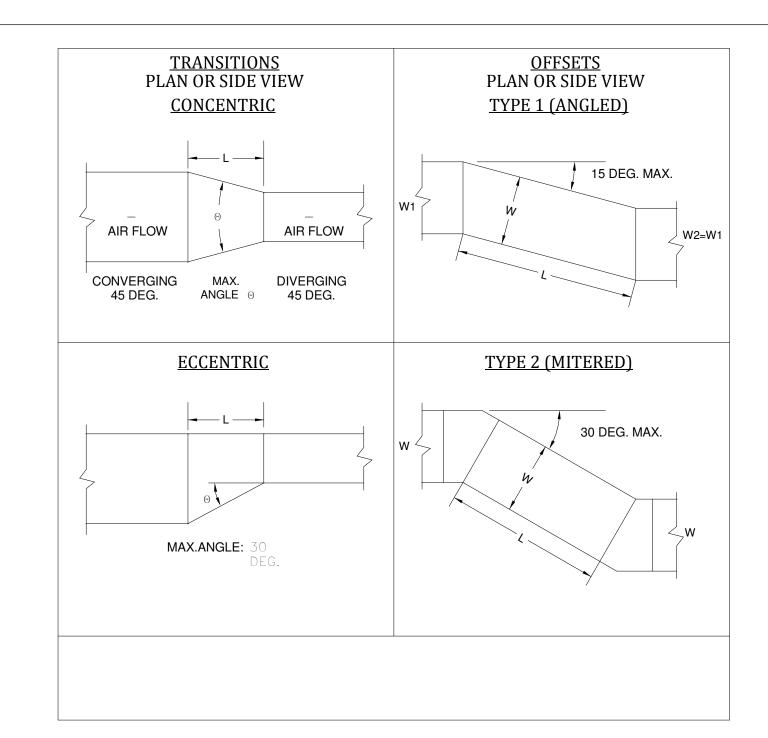
JOB NO. A19021.00 DESIGNED BY: AW DRAWN BY: CHECKED BY: JMD DATE: 12/1/2021



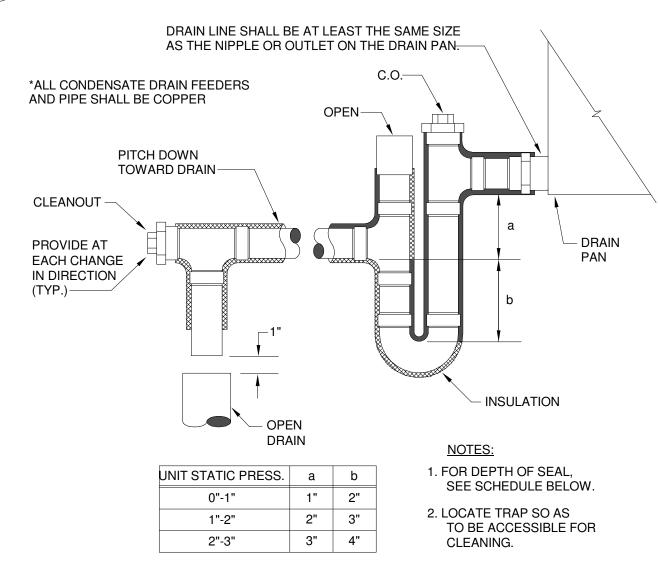
1 RECTANGULAR DUCT ELBOWS DETAIL
NOT TO SCALE



SUPPLY AIR DEVICE CONNECTION
DETAIL
NOT TO SCALE

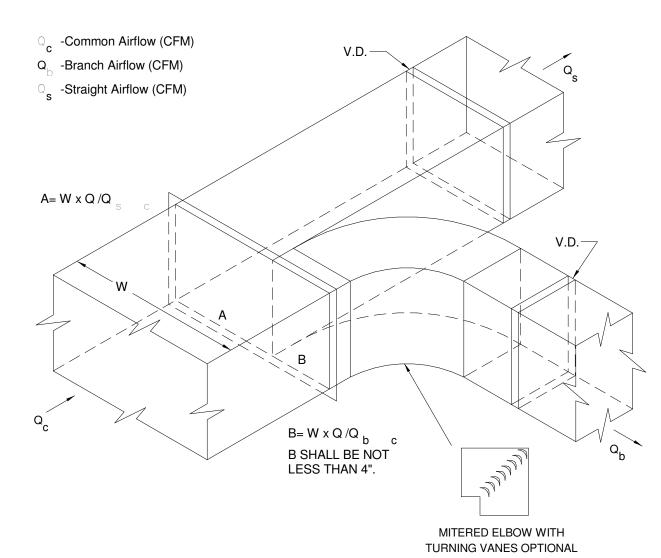


2 DUCT TRANSITIONS & OFFSET DETAIL
NOT TO SCALE

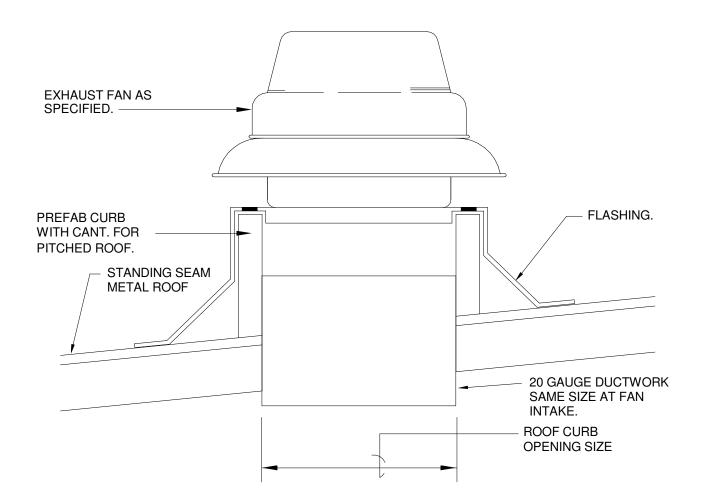


CONDENSATE DRAIN TRAP DETAIL

NOT TO SCALE



RECTANGULAR DUCT PARALLEL
BRANCHES
NOT TO SCALE



DOWNBLAST ROOF MOUNTED EXHAUST FAN DETAIL

NOT TO SCALE

# DESCRIPTION DATE

118 Broadway Suite 201 San Antonio, Texas 78205 (TX RE) F-1114)

San Antonio, Texas 78204

MECHANICAL - DE

WORLD HERITAGE CENTER

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CONSTRUCTION
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BIDDING, OR CONSTRUCTION
JAMES M. DREWRY
TEXAS LIC. NO. 63512
November 23, 2021

JOB NO.

A19021.00

DESIGNED BY: AW

DRAWN BY: AW

CHECKED BY: JMD

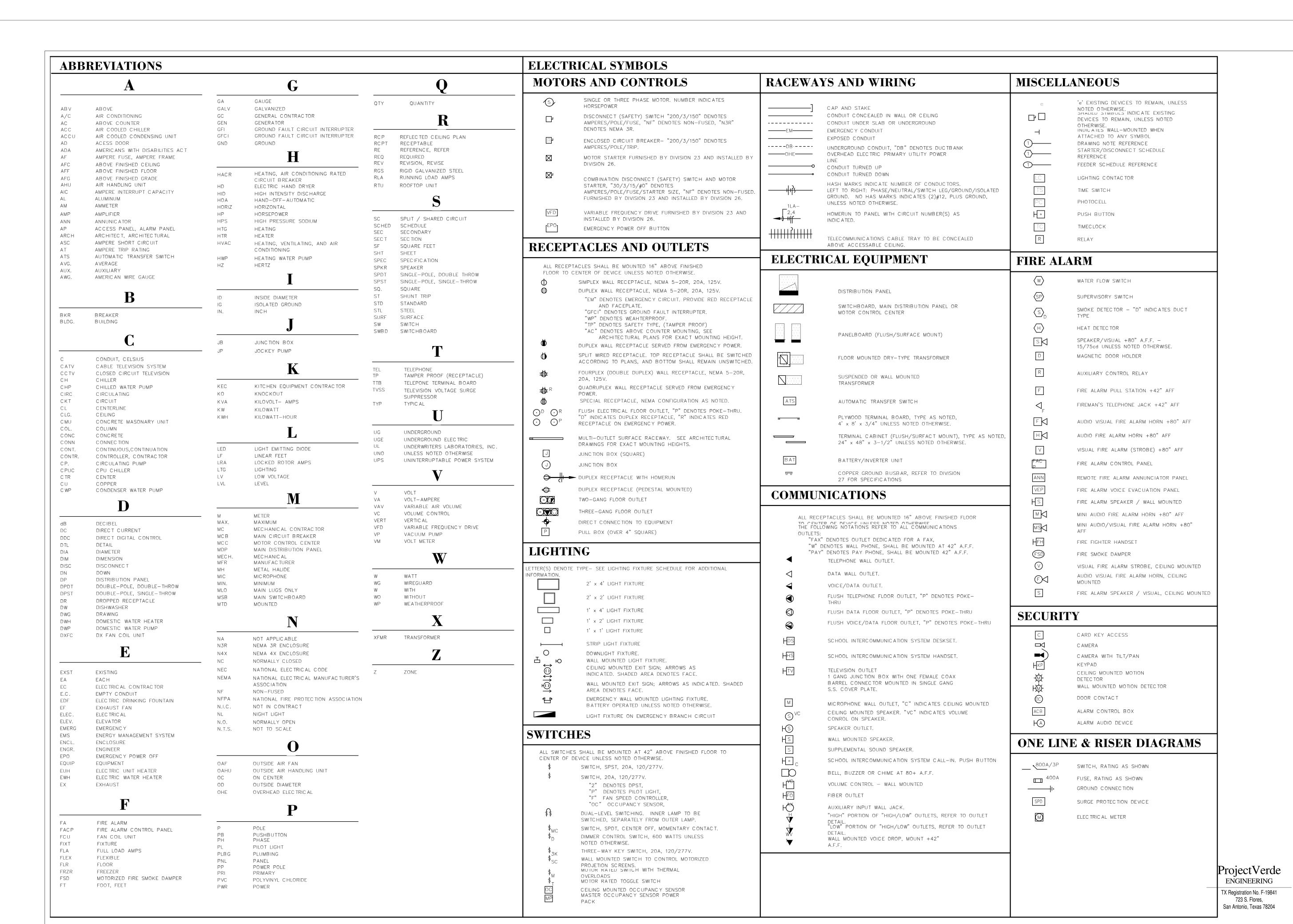
DATE: 12/1/2021

SHEET: M-401

Project Verde ENGINEERING

TX Registration No. F-19841
723 S. Flores,

San Antonio, Texas 78204



LEC. SYMBOLS. ABBREV. & GEN. NOTES

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BIDDING, OR CONSTRUCTION

. J. DUANE LETSON

TEXAS LIC. NO. 8471

A19021.00

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12/01/2021

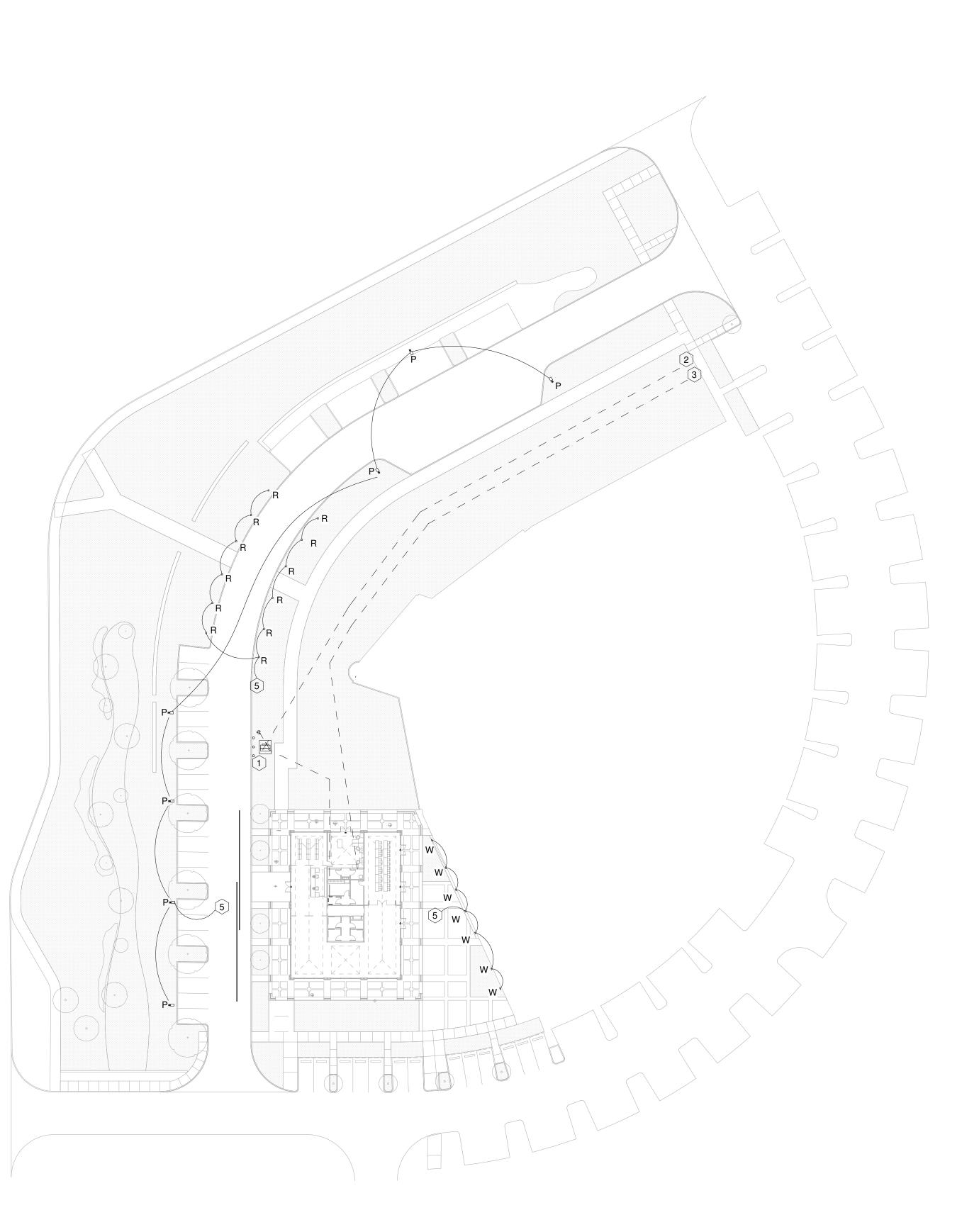
JOB NO.

DESIGNED BY:

DRAWN BY:

CHECKED BY:

DATE:



- CONTRACTOR SHALL COORDINATE ALL ELECTRICAL AND TELECOM UTILITY ROUTING WITH THE LOCAL UTILITY COMPANIES.
- 2. EXTERIOR LIGHTING WAS DESIGNED BY OTHERS. SEE LANDSCAPE ARCHITECTS PLANS FOR EXTERIOR LIGHT FIXTURE SCHEDULE AND CONTACT INFORMATION.

## KEYED # ELECTRICAL NOTES

- 1. PROVIDE CONCRETE TRANFORMER PAD, GROUNDING, METER RACK, AND BOLLARDS, IN ACCORDANCE WITH CPS ENERGY PROJECT SPECIFIC DETAILS AND STANDARDS.
- 2. PROVIDE FLOWABLE FILL ENCASED PRIMARY VOLTAGE DUCTBANK TO RISER POLE IN ACCORDANCE WITH CPS ENERGY PROJECT SPECIFIC DETAILS AND STANDARDS.
- 3. PROVIDE (2) 4" CONDUITS WITH PULL STRINGS TO RISER POLE FOR TELECOM CABLING. COORDINATE RISER POLE LOCATION WITH TELECOM UTILITY COMPANIES.
- 4. STUB UP TELECOM CONDUITS AT SERVER ROOM TERMINATION BOARD.
- 5. ALL EXTERIOR LIGHTING CIRCUIT SHALL BE SIZED C1N-20, THE CONNECTED LIGHT FIXTURE LOADS ARE VERY LOW. RUN A SINGLE C1N-20 HOMERUN FROM EACH TYPE OF LIGHT FIXTURE TO THE ELECTRICAL CLOSET FOR CONTROL BY THE LIGHTING CONTROL SYSTEM.

SITE

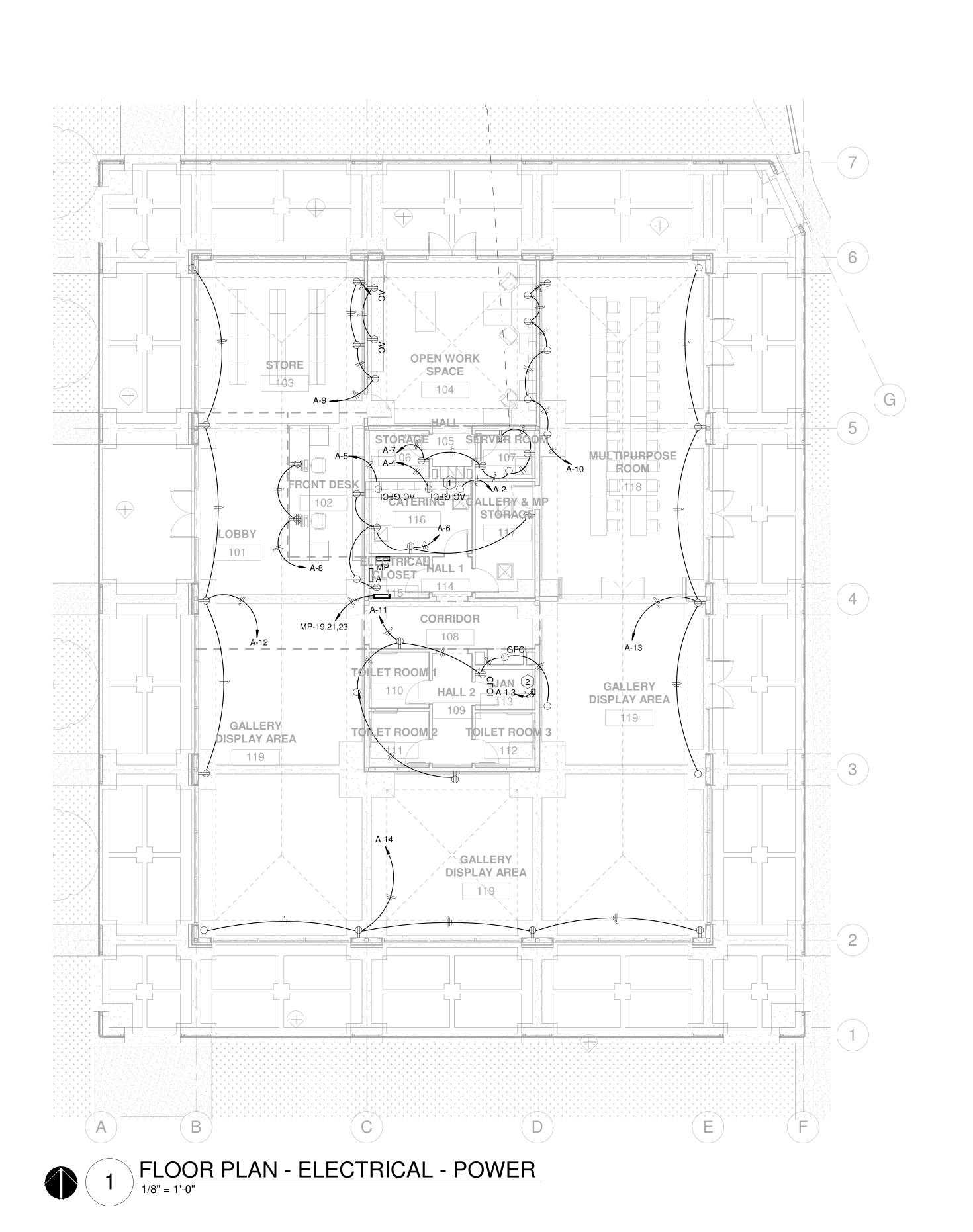
JOB NO.	A19021.00
DESIGNED BY:	JDL
DRAWN BY:	JDL
CHECKED BY:	JDL
DATE:	12/01/2021
SHEET: E-1	101

ProjectVerde ENGINEERING

TX Registration No. F-19841 723 S. Flores, San Antonio, Texas 78204

1 SITE PLAN - ELECTRICAL

1" = 40'-0"



SEE SHEET E-101 SITE PLAN FOR UNDERGROUND CONDUIT ROUTES TO PANEL MDP AND TO TELECOM SERVER ROOM.

## KEYED # ELECTRICAL NOTES

- 1. PROVIDE 20A RECEPTACLE AT 42" AFF. CIRCUIT SHALL BE CONNECTED TO 20A GFCI CIRCUIT BREAKER.
- 2. PROVIDE 30A, 2-POLE SAFETY DISCONNECT, NF, HD, NEMA1 FOR WATER HEATER. PROVIDE EQUIPMENT CONNECTION TO WATER HEATER.

POWER

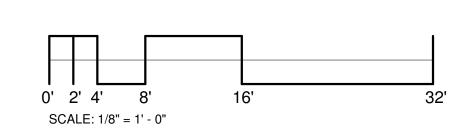
PLAN

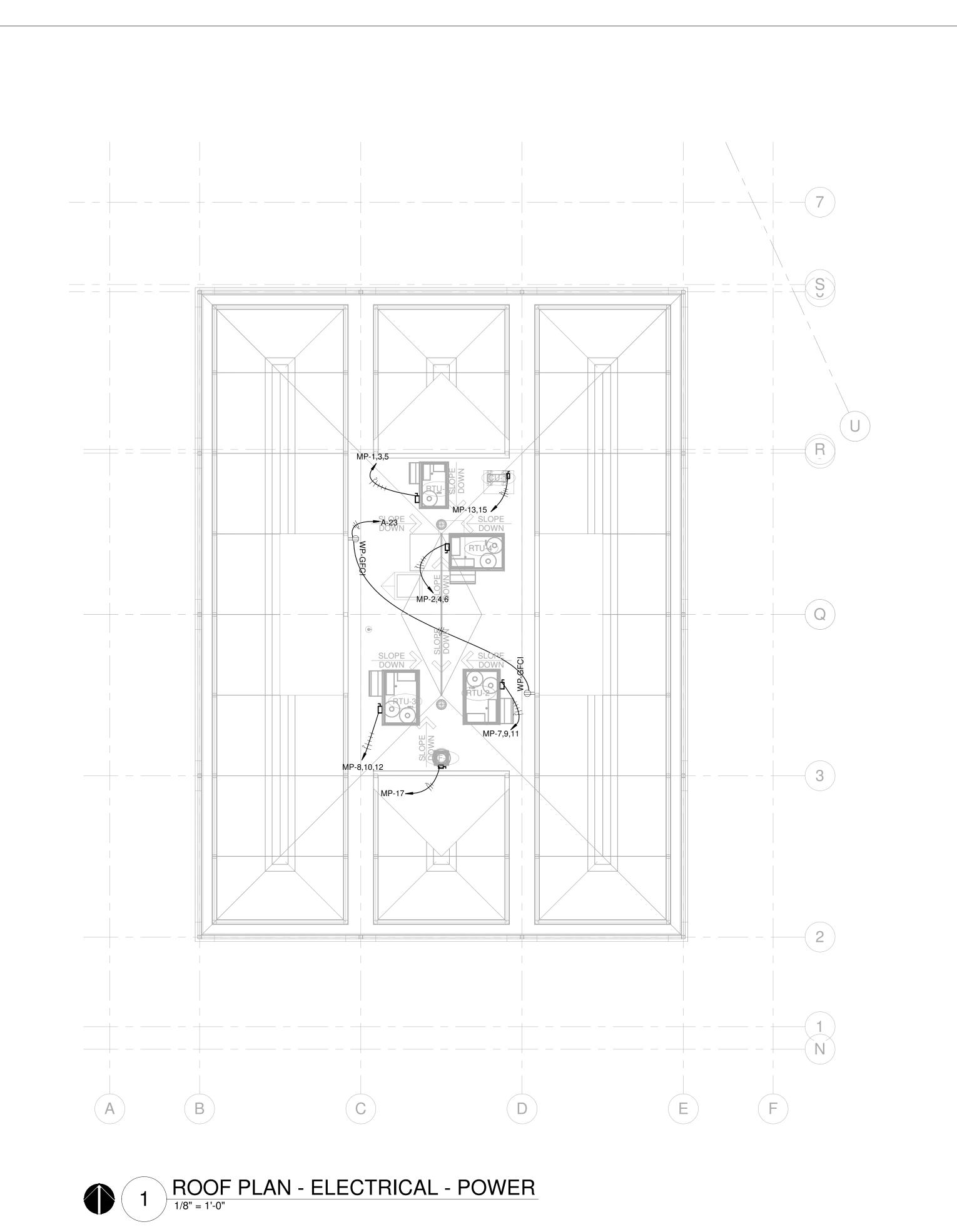
FLOOR

WORLD HERITAGE CENTER SAN ANTONIO, TEXAS

, Document incomplete NOT INTENDED FOR PERMITTIN BIDDING, OR CONSTRUCTION J. DUANE LETSON TEXAS LIC. NO. 8471

JOB NO. A19021.00 DESIGNED BY: JDL DRAWN BY: JDL CHECKED BY: JDL DATE: 12/01/2021 E-201





KEYED # ELECTRICAL NOTES

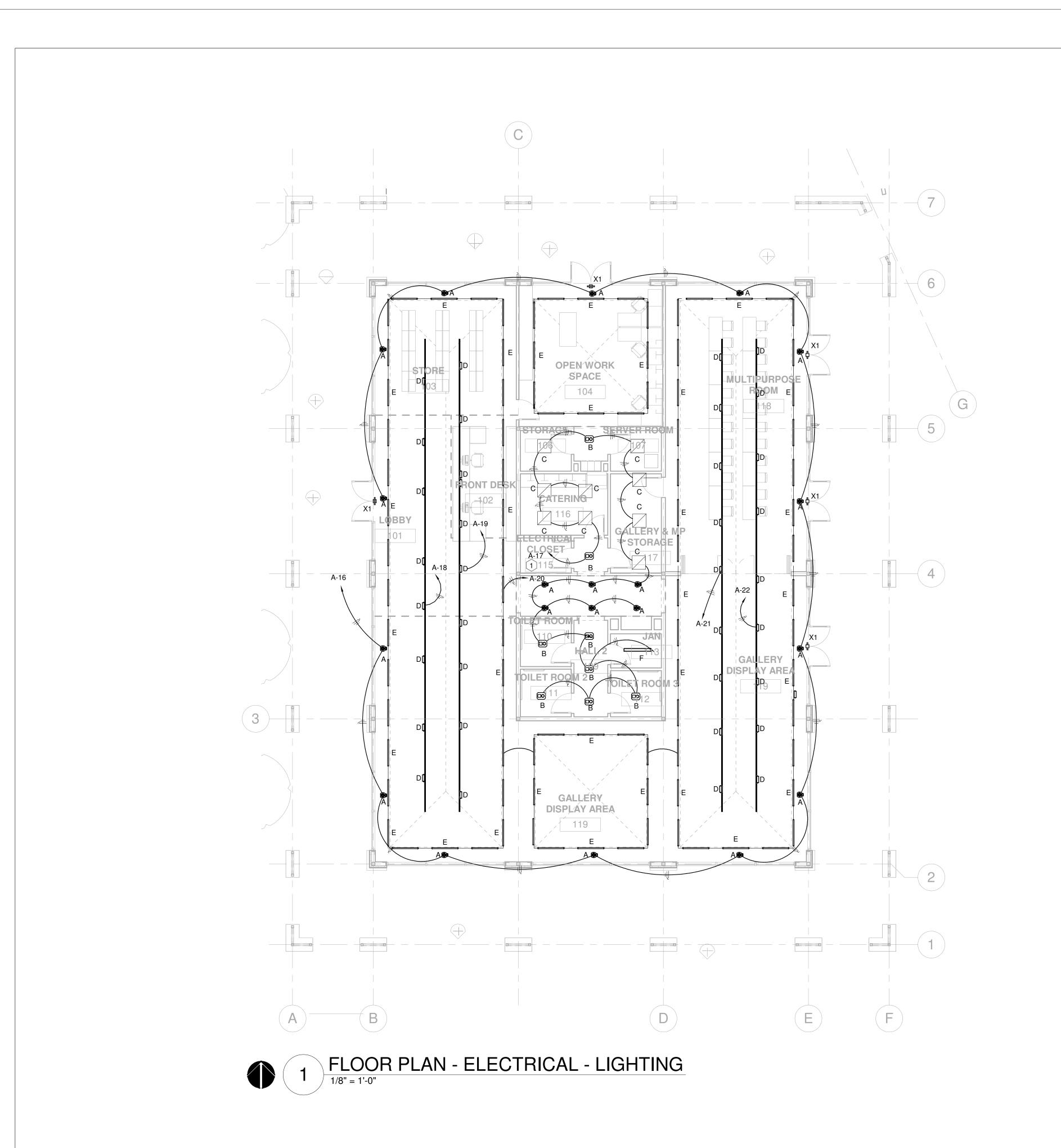
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BIDDING, OR CONSTRUCTION.

J. DUANE LETSON
TEXAS LIC. NO. 84715
November 23, 2021

A19021.00	JOB NO.
D BY: JDL	DESIGNE
3Y: JDL	DRAWN I
) BY: JDL	CHECKE
12/01/2021	DATE:
F-202	SHEET:

0' 2' 4' 8' SCALE: 1/8" = 1' - 0"



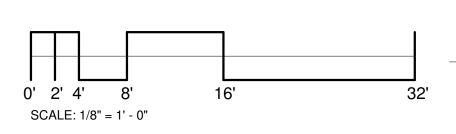
ALL LIGHTING CONTROLS SHALL COMPLY WITH IECC 2018. CONTACT BEN MATTHEWS AT 210-219-9070 FOR LUTRON CONTROLS DESIGN DOCUMENTS.

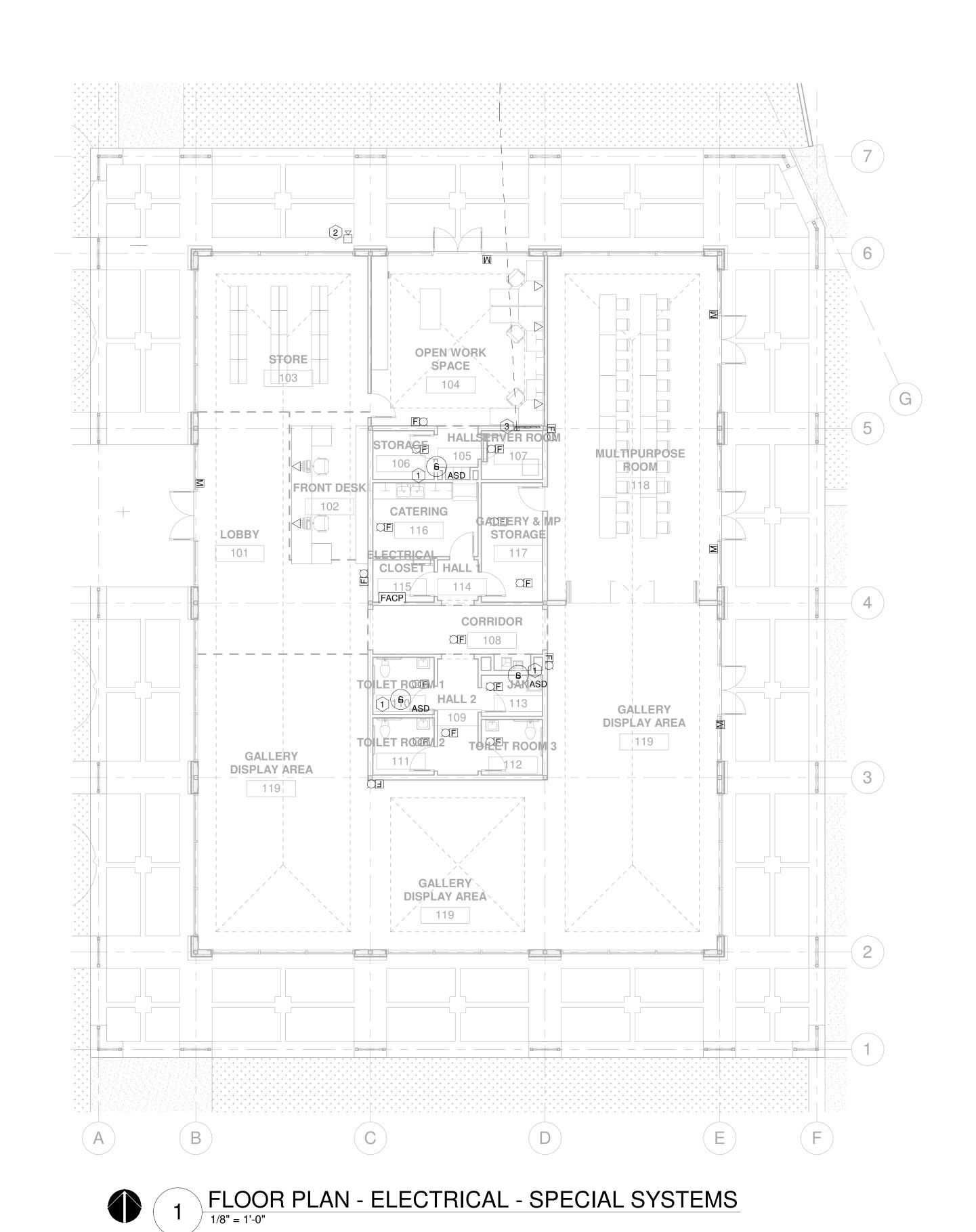
## KEYED # ELECTRICAL NOTES

LIGHTING CONTROL RELAYS AND EMERGENCY LIGHTING INVERTER SHALL BE LOCATED IN THIS AREAS. REFER TO LUTRON LIGHTING CONTROLS DESIGN DOCUMENTS.

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JOB NO. A19021.00 DESIGNED BY: DRAWN BY: CHECKED BY: 12/01/2021 E-301





- 1. IT IS THE INTENT OF THE CONSTRUCTION DOCUMENTS TO REQUIRE A STATE LICENSED FIRE ALARM CONTRACTOR TO PROVIDE A COMPLETE DESIGN AND INSTALLATION OF THE FIRE ALARM SYSTEM INCLUDING EQUIPMENT SELECTIONS AND CIRCUIT CALCULATIONS. THE ENGINEER'S DESIGN IS FOR SCHEMATIC REFERENCE ONLY.
- 2. ALL FIRE ALARM PLANNING SHALL BE SUPERVISED BY A STATE LICENSED FIRE ALARM PLANNING SUPERINTENDENT AND SHALL BE INSTALLED BY A CERTIFIED NICET LEVEL III (MINIMUM) TECHNICIAN.

## KEYED # ELECTRICAL NOTES

- 1. PROVIDE FIRE ALARM AIR SAMPLING DUCT SMOKE DETECTOR IN THE RETURN DUCT OF THE ROOF TOP UNIT (RTU). PROVIDE RELAY CONTROLLED BY SMOKE DETECTOR AND WIRE THE RTU CONTROLS FOR SHUT DOWN OF THE UNIT.
- 2. PROVIDE FIRE ALARM WP HORN MOUNTED TO EXTERIOR OF BUILDING.

TEMS

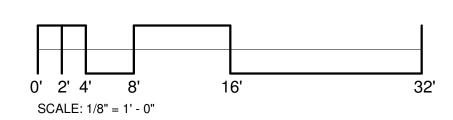
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JOB NO. A19021.00 DESIGNED BY: DRAWN BY: JDL CHECKED BY: JDL DATE: 12/01/2021 E-501

ProjectVerde ENGINEERING

TX Registration No. F-19841 723 S. Flores, San Antonio, Texas 78204



	Location: ELECTRIC Supply From:  Mounting: Surface Enclosure: Type 1	CAL CLOS	ET 115			ا	Volts: Phases: Wires:		3 Wye				Ma Maiı	C. Rating: 65K ains Type: ns Rating: 400 A CB Rating: 400 A		
Notes:																
СКТ	Circuit Description	Circuit Mark	Trip	Poles		A		В			Poles	Trip	Circuit Mark	Circuit De	scription	CK
1					588	5880						-			-	2
3	RTU - 1	C3-50	50 A	3			5880	5880			3	50 A	C3-50	RTU -4		4
5					500	5000			5880	588						6
7	RTU - 2	C3-50	50 A	3	588	5880	5880	5880			3	50 A	C3-50	RTU - 3		10
9	N10-2	C3-50	50 A	3			3660	3660	5880	588	3	50 A	C3-50	N10-3		12
13					187	4675			3000	300						14
15	-CU - 1	C2-20	20 A	2		1070	1872	3226			3	100 A	C3N-100	Panel A		16
17	EF - 1	C1N-1	20 A	1					56 VA	294						18
19	FINA COOMING VI Three Disease A William				0 VA	0 VA					1	20 A		Spare		20
21	5 kVA, 208Y/120 V, Three Phase, 4 Wires, Wye,Emergency Lighting Inverter	C3N-20	20 A	3			0 VA	0 VA			1	20 A		Spare		22
23									0 VA	0 VA	1	20 A		Spare		24
25	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare		26
27	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare		28
29	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare		30
31																32
33 35																34
37																38
39																40
41																42
			Total	Load:	300	67 VA	286	18 VA	2651	8 VA						
_egen	l:		Total	Amps:	25	53 A	24	1 A	221	I A						
nad C	lassification		Conne	rted I (	nad	Der	nand Fa	octor	Fetim	nated D	emand	1		Panel Tota	ale	
_ighting				4 VA			100.00%			824 V		-		1 4.10. 104	<del></del>	
Recept				40 VA			100.00%			7740 V				Total Conn. Load: 852	203 VA	
Heating				VA			0.00%			0 VA			Т	otal Est. Demand: 852		
Cooling				04 VA			100.00%		•	74304 \				Total Conn.: 236		
	Equipment - Non-Dwelling Unit			0 VA			100.00%			800 V			Т	otal Est. Demand: 237	' A	
Motor				6 VA			125.00%			70 VA						
Elevato	r			VA			0.00%			0 VA						
Other Notes:			15	00 VA			100.00%	6		1500 V	Ά					

CIRCUIT	NOMINAL	QTY OF	CONDUIT SIZE	QTY OF COND.	CONDUCTOR	QTY OF NEUT.	NEUTRAL	QTY OF GND.	SIZE OF GND
MARK	AMPS	CONDUITS	(IN.)	PER CONDUIT	SIZE	PER CONDUIT	SIZE	PER CONDUIT	CONDUCTOR
MAIN.	Aivir	CONDONS		hase Conductor v			SILL	TENCONDON	CONDUCTOR
C1N-20	20	ONE	1/2"	1	#12	1	# 12	1	#12
C1N-30	30	ONE	3/4"	1	#10	1	# 10	1	#10
C1N-50	50	ONE	3/4"	1	#8	1	#8	1	# 10
			Two P	hase Conductors v	with Neutral and	Ground			
C2N-20	20	ONE	1/2"	2	#12	1	# 12	1	#12
C2N-30	30	ONE	3/4"	2	#10	1	# 10	1	# 10
C2N-50	50	ONE	3/4"	2	#8	1	#8	1	#10
		es.	Two Pl	hase Conductors v	vith Ground (No	Neutral)	0		
C2-20	20	ONE	1/2"	2	#12			1	#12
C2-30	30	ONE	3/4"	2	#10			1	#10
C2-50	50	ONE	3/4"	2	#8			1	# 10
			Three F	Phase Conductors	with Neutral and	d Ground			
C3N-20	20	ONE	1/2"	3	#12	1	# 12	1	#12
C3N-30	30	ONE	3/4"	3	#10	1	#10	1	# 10
C3N-50	50	ONE	1"	3	#8	1	#8	1	#10
C3N-60	60	ONE	1"	3	#6	1	#6	1	#10
C3N-80	80	ONE	1-1/4"	3	#4	1	#4	1	#8
C3N-100	100	ONE	1-1/4"	3	#3	1	#3	1	#8
			Three F	hase Conductors	with Ground (no	Neutral)			
C3-20	20	ONE	1/2"	3	#12			1	# 12
C3-30	30	ONE	3/4"	3	#10			1	# 10
C3-50	50	ONE	3/4"	3	#8			1	# 10
C3-60	60	ONE	1"	3	#6			1	#10
C3-80	80	ONE	1-1/4"	3	#4			1	#8

	Branch Panel: A  Location: ELEC		ET 445				\/el+e-	100/000	) \\/\/~				Α.	C Poting, 2017 ALC		
	Supply From: MP  Mounting: Rece Enclosure: Type	essed	6E1 115				Voits: Phases: Wires:	•	s wye				Mai Mai	C. Rating: 22K AIC ains Type: ns Rating: 100 A CB Rating:		
Notes:																
СКТ	Circuit Description	Circuit Mark	Trip	Poles		A		В	C		Poles	Trip	Circuit Mark	Circuit	Description	Ch
1	•		· ·			800 VA					1	20 A	C1N-20	Refrigerator, GFCI	•	2
3	Water Heater	C2-20	20 A	2	2 3		750 VA	180 VA			1	20 A	C1N-20	Receptacle		
5	Receptacle	C1N-20	20 A	1					180 VA	180	1	20 A	C1N-20	Receptacles		6
7	Receptacles	C1N-20	20 A	1	900	720 VA					1	20 A	C1N-20	Receptacles		8
9	Receptacles	C1N-20	20 A	1			900 VA	1080			1	20 A	C1N-20	Receptacles		1
11	Receptacles	C1N-20	20 A	1					1080	720	1	20 A	C1N-20	Receptacles		1:
13	Receptacles	C1N-20	20 A	1	720	720 VA					1	20 A	C1N-20	Receptacles		1.
15	Exterior Lighting	C1N-20	20 A	1			250 VA	0 VA			1	20 A	C1N-20	Down Lighting		1
17	Core Lighting	C1N-20	20 A	1					432 VA	33 VA	1	20 A	C1N-20	Track Lighting		1
19	Track Lighting	C1N-20	20 A	1	33 VA	32 VA					1	20 A	C1N-20	Up - Lighting		2
21	Track Lighting	C1N-20	20 A	1			33 VA	33 VA			1	20 A	C1N-20	Track Lighting		2:
23	Receptacles Rooftop	C1N-20	20 A	1					360 VA	0 VA	1	20 A		Spare		24
25	Spare		20 A	1	0 VA	0 VA					1	20 A		Spare		2
27	Spare		20 A	1			0 VA	0 VA			1	20 A		Spare		2
29	Spare		20 A	1					0 VA	0 VA	1	20 A		Spare		3
31																3
33																3
35																3
37																3
39																4
41																42
				Load:		75 VA		6 VA	2948							
Legend	<b>l</b> :		Total A	Amps:	3	9 A	21	7 A	25	A						
l and O	loosification		0	-t- d l .	I	Dor		-4	Fatim	atad D		.		Daniel 3	Tatala	
Load C	lassification		Conne	cted Lo 24 VA	Jau		nand Fa		Estin	nated Do 824 VA		ı		Panel 7	เบเสเร	
Recepta				40 VA			100.00%			7740 V				Total Conn. Load:	10844 VA	
Heating				VA VA			0.00%	,		0 VA	• •			otal Est. Demand:		
Cooling				VA			0.00%			0 VA			•	Total Conn.:		
	Equipment - Non-Dwelling Unit			0 VA			100.00%			800 VA	\		Т	otal Est. Demand:		
Motor	_qu.p.none non bronning offic			VA			0.00%	•		000 V/	•		•	J.S. Edi Bollididi		
Elevato	<u> </u>			VA			0.00%			0 VA						
Other	•			00 VA			100.00%	,		1500 V	Λ					

ELECTRICAL - PANEL SCHEDULES

WORLD HERITAGE CENTER

SAN ANTONIO, TEXAS

JOB NO.

A19021.00

DESIGNED BY:

DRAWN BY:

DATE:

DOCUMENT INCOMPLETE
NOT INTENDED FOR PERMITTING,
BIDDING, OR CONSTRUCTION.

J. DUANE LETSON
YEXAS LIC. NO. 84715
November 23, 2021

JOB NO.

A19021.00

DESIGNED BY:

JDL

DATE:

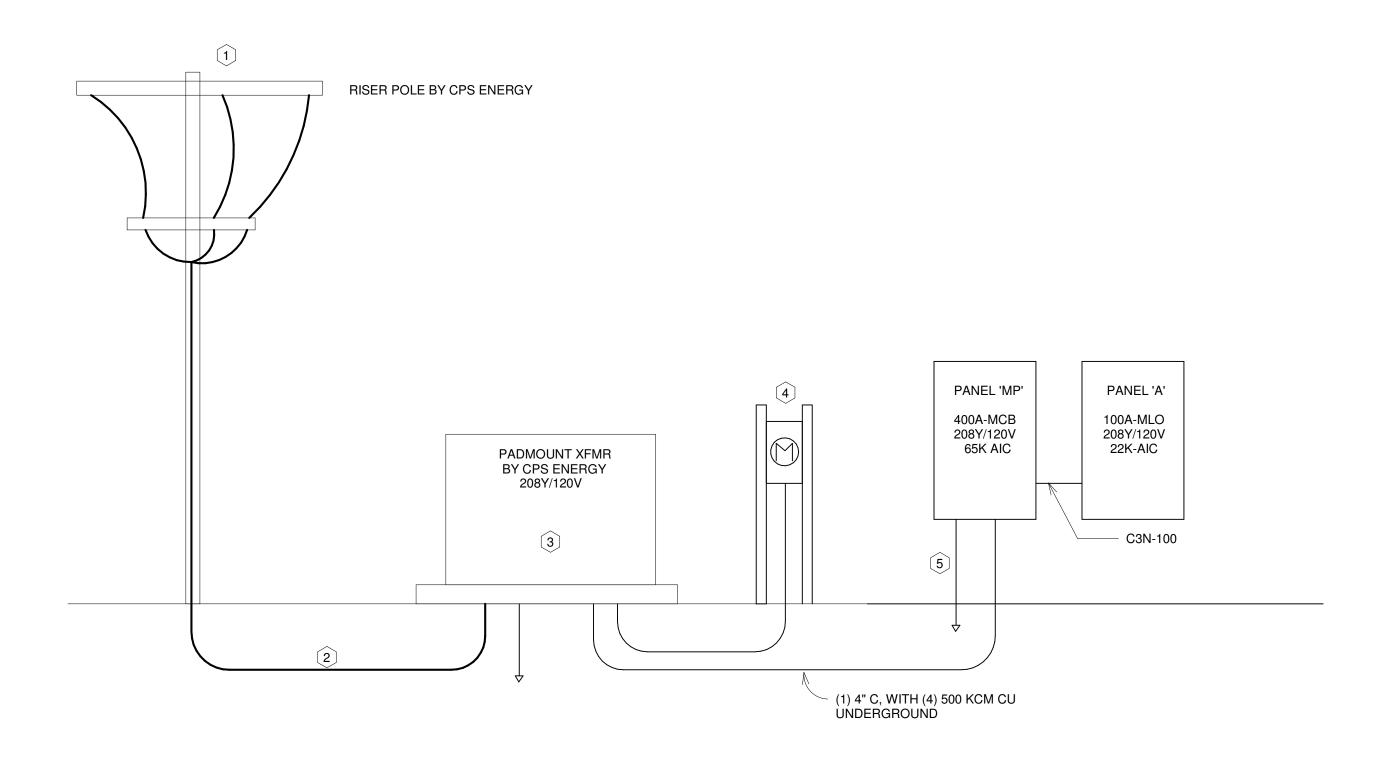
12/01/2021

E-601

Tag Mark	Description	Manufacturer	Model Number	Lumens	Color Temperature	Finish	Wattage	Input Voltage	Control Type	Comment
А	1/2" DOWNLIGHT	CSL	WS-IC-XX-90-S1/WS-PAN	1100	TBD	NA	16.1	120-277	0-10	
В	4" DOWNLIGHT	HE Williams	4DR-TL- 20-9/XX/DIM1-UNV- RW-OF-WH-N-F1	2000	TBD	WHITE	19.8	120-277	0-10	
С	2X2 FLAT PANEL	HE Williams	LP-22-L40-8-XX-DIM-UNV	4000	TBD	WHITE	39.2	120-277	0-10	
D	TRACK LIGHTING	CORONET	MAG-SPT-LRG-XX-LTG3 XX	1040	TBD	TBD	17	120-277	0-10	
E	LED TAPE IN ANGLED EXTRUSION	NOVAFLEX	NF-DS-O-240-24V- XXXX/ANGLED 3030 - CR/NF- PS-MAXX-288W-24V-0/10V	577/FT	TBD	NA	6.6W/FT	120-277	0-10	
F	4' LED STRIP	HE Williams	75S-4-L50-8-4000-DIM-UNV	5000	TBD	TBD	33	120-277	0-10	
X1	EXIT LIGHT	MULE	PVT-UM-G-S/R-XX	NA	NA	NA	3	120-277	NA	

#### LIGHTING FUNCTIONAL TESTING/PRE-COMMISSIOING PLAN

- THE CONTRACTOR SHALL COMPLETE THE TASKS BELOW TO PRE-COMMISSION THE LIGHTING CONTROL SYSTEM AND SUBMIT WRITTEN DOCUMENTATION DETAILING THE TASKS BELOW. FOR EACH TASK, LIST THE DATE PERFORMED, PERSON COMPPLETING THE TASK, THE INITIAL SETTING/CONDITION., ACTONS PERFORMED, AND FINAL SETTING CONDITION. SUBMIT DOCCUMENTATION AT OR BEFORE SUBSTANTIAL COMPLETION TO FACILITATE OBTAINING THE CERTIFICATE OF OCCUPANCY. PROVIDE COPIES OF THE PRE-COMMISSIONING REPORT TO THE ENGINEER OF RECORD AND TO THE ARCHITECT.
- 1. ENSURE ALL LIGHT FIXTURES ARE FUNCTIONAL.
- 2. TEST ALL EXIT SIGNS, EMERGENCY LIGHT FIXTURES, AND EMERGENCY BATTTERY UNITS .
- 3. VERIFY ALL OCCUPANCY SENSORS HAVE BEEN LOCATED AND AIMED PER THE MANUFACTURER'S INSTRUCTIONS.
- 4. SET OCCUPANCY SENSORS TIME DELAY SETTINGS IN ACCORDANCE WITH THE MANFACTURER'S INSTRUCTIONS.
- 5. TEST ALL OCCUPANCY SENSORS FOR MOTION COVERAGE AND CORRECT TIME DELAY.
- 6. WHERE DIMMING CONTROLS ARE PROVIDED TEST THE CONTROLS FOR FULL RANGE OF DIMMING.



# ONE-LINE DIAGRAM 1/4" = 1'-0"

### GENERAL ELECTRICAL NOTES

1. THE CONTRACTOR SHALL COORDINATE UNDERGROUND PADMOUNT SERVICE WITH CPS REPRESENTATIVE. INSTALL UNDERGROUND DUCTBANK AND TRANSFORMER PAD IN ACCORDANCE WITH CPS ELECTRIC SERVICE STANDARDS AND PROJECT SPECIFIC DRAWINGS AND SPECIFICATIONS FURNISHED BY CPS.

## KEYED # ELECTRICAL NOTES

- 1. COORDINATE LOCATION OF RISER POLE WITH CPS ENERGY.
- 2. PROVIDE PRIMARY VOLTAGE DUCTBANK IN ACCORDANCE WITH CPS ENERGY PROJECT SPECIFIC DIAGRAMS AND ELECTRIC SERVICE STANDARDS.
- 3. PROVIDE CONCRETE PAD, GROUND RODS, AND CONDUIT STUB UPS IN ACCORDANCE WITH CPS ENERGY PROJECT SPECIFIC DIAGRAMS AND ELECTRIC SERVICE STANDARDS.
- 4. PROVIDE GALVANIZED STEEL RACK FOR METER IN ACCORDANCE WITH PROJECT SPECIFIC DIAGRAMS AND ELECTRIC SERVICE STANDARDS.
- 5. PROVIDE 5/8" COPPER CLAD STEEL GROUND ROD AND #2 CU GROUNDING ELECTRODE CONDUCTOR AND CONNECTION TO BUILDING STEEL.

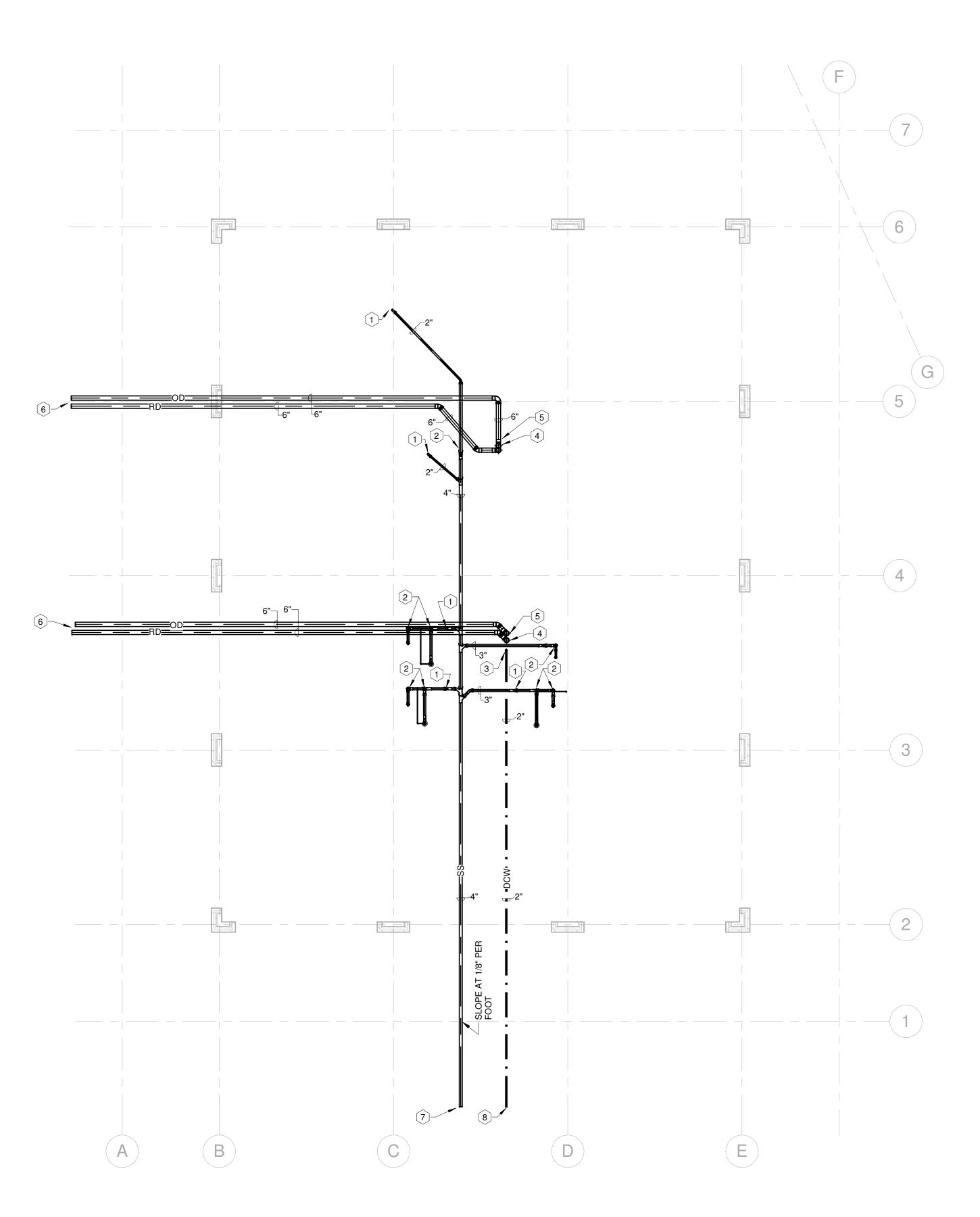
DOCUMENT INCOMPLETE IOT INTENDED FOR PERMITTIN BIDDING, OR CONSTRUCTION , J. DUANE LETSON

JOB NO. A19021.00 DESIGNED BY: JDL DRAWN BY: JDL CHECKED BY: JDL 12/01/2021 E-701

ProjectVerde ENGINEERING TX Registration No. F-19841 723 S. Flores,

San Antonio, Texas 78204

					BING SYMBOLS A						ш
CVMDAI	DESCRIPTION	ADDDEVIATION	CVMDAI		OF THE SYMBOLS SHOWN MAY BE				A DDDEVI ATION	ADDDENIATION	DAT
<b>SYMBOL</b>	DESCRIPTION  CHORM DRAIN, DAINWATER DRAIN	ABBREVIATION	<b>SYMBOL</b> ——  ——  ——		<b>ABBREVIATION</b>	<b>SYMBOL</b> FHR	DESCRIPTION ABBR		ABBREVIATION A	ABBREVIATION M	
←—SD—→	STORM DRAIN, RAINWATER DRAIN	SD, RD		GATE VALVE	GV	( <del>)         </del>	FIRE HOSE RACK	FHR	AFF ABOVE FINISHED FLOOR AC ABOVE CEILING	MAX MAXIMUM MPS MEDIUM-PRESSURE STEAM	SNO
SSD——→	SUBSOIL DRAIN, FOOTING DRAIN  GREASE WASTE	SSD GREASE WASTE	Į	GLOBE VALVE ANGLE VALVE	GV AV	← AS ← → DPS ← →	AUTOMATIC SPRINKER PIPE	-	ACU AIR-CONDITIONING UNIT(S) AHU AIR HANDLING UNIT	MTHW MEDIUM-TEMPERATURE HOT WATER HG MERCURY	TION
⊱GW	SOIL, WASTE, OR SANITARY SEWER	S, W, SAN, SS	<del>\</del>	BALL VALVE	BV	—— DF3——→  ———	DRY PIPE SPRINKLER  PREACTION SPRINKLER PIPE	<del>-</del>	AHP AIR HORSEPOWER AC ALTERNATING CURRENT ALT ALTITUDE	MPH MILES PER HOUR MIN MINIMUM N	SSUE/
; — — — →	VENT	V	—————————————————————————————————————	BUTTERFLY VALVE	BFV			-	AMB AMBIENT  AMERICAN NATIONAL	NC NORMALLY CLOSED NO NORMALLY OPEN	
, , , ,	ACID WASTE	AW	'Ψ' . ¥.	BALANCING VALVE (SPECIFY TYPE)	BV	<u>○</u>	FIRE HOSE VALVE  FIRE HOSE CABINET (SURFACE-MOUNTED)	FHV FHC	ANSI STANDARDS INSTITUTE  AWG AMERICAN WIRE GAUGE	NA NOT APPLICABLE NIC NOT IN CONTRACT	
	ACID VENT	AV	<b>├</b>	CHECK VALVE	CV		FIRE HOSE CABINET (SURFACE-MOUNTED)	FHC	AMP AMPERE (AMP, AMPS) ANG ANGLE	O NO NUMBER OZ OUNCE	
, , , , , , , , , , , , , , , , , , ,	INDIRECT DRAIN	D	AP	ACCESS PANEL LOCATION	AP	CO CO	CLEANOUT PLUG	СО	ANGI ANGLE OF INCIDENCE ADP APPARATUS DEW POINT	P OA OUTSIDE AIR PPM PARTS PER MILLION	#
, D → PD →	PUMP DISCHARGE LINE	PD	<u>P-1A</u>	PLUMBING FIXTURE DESIGNATION		ο CO	FLOOR CLEANOUT	FCO	APPROX APPROXIMATE  A AREA	% PERCENT PH PIPE PIPE	
← RD ← →	ROOF DRAIN	RD	PR PR			_ WCO	WALL CLEANOUT	WCO	ATM ATMOSPHERERE AVG AVERAGE	LB POUNDS PER SQUARE PSF POUNDS PER SQUARE FOOT	S
	OVERFLOW ROOF DRAIN	ORD		PRESSURE-REDUCING VALVE PRESSURE-RELIEF VALVE	<del>-</del>	CO,	YARD CLEANOUT OR CLEANOUT TO GRADE	WCO	BF BELOW FLOOR BG BELOW GRADE	PSI POUNDS PER SQUARE INCH PSIA POUNDS PER SQUARE INCH ABSOLUTE	
	COLD WATER	CW	<b>↓</b> TP	TEMPERATURE-PRESSURE-RELIEF VALVE	- TP	, FD <del>S ID</del> <del>D</del> <del>D</del>		FD	BG BELOW GRADE BHP BRAKE HORSEPOWER BTU BRITISH THERMAL UNIT	PSIG POUNDS PER SQUARE INCH GAGE PRESS PRESSURE O	
· · · · · ·	HOT WATER SUPPLY (120°)	HW	RZBP			,	FLOOR DRAIN WITH P-TRAP  PITCH DOWN OR UP-IN DIRECTION OF ARROW	-	С	QT QUART	
5140°	HOT WATER SUPPLY (140°) HOT WATER RETURN (120°)	140° HWR	→ → JUB	REDUCED ZONE BACKFLOW PREVENTER	RZBPHB	<b>→</b>	FLOW-IN DIRECTION OF ARROW	_	°C CELSIUS C TO C CENTER TO CENTER CKT CIRCUIT	R RADIUS RCVR RECEIVER	
,	HOT WATER RETURN (140°)	140°R	HB	HOSE BIBB	HB	· —	POINT OF CONNENTION	POC	CCW COUNTERCLOCKWISE FT 3 CUBIC FEET	RECIRC RECIRCULATE REV REVOLUTIONS	
TW	TEMPERED HOT WATER (TEMP°F)	TEMP, HW,TW	₩H	RECESSED-BOX HOSE BIBB OR WALL HYDRANT  VALVE IN YARD BOX (VALVE TYPE		⊗ F&T	STEAM TRAP (ALL TYPES)	FDD	IN <sup>3</sup> CUBIC INCH CFM CUBIC FEET PER MINUTE	RPM REVOLUTIONS PER MINUTE RPS REVOLUTIONS PER SECOND	
TWR	TEMPERED HOT WATER RETURN (TEMP.°F)	TEMP, HWR,TWR			YB	, ———	GILAWI HAF (ALL HIFES)	FS	SCFM COBIC FEET PER MINUTE  SCFM CFM, STANDARD CONDITIONS  SCFS CUBIC FT PER SEC, STANDAR		
⊱—DWS—→	(CHILLED) DRINKING WATER SUPPLY	DWS	<b>←</b>	UNION (SCREW)	-	FFD ├── <del> </del> ⊅@	FUNNEL FLOOR DRAIN	FS	D	SPEC SPECIFICATION SQ SQUARE STD STANDARD	
⊱—DWR——	(CHILLED) DRINKING WATER RECIRCULATING		<b>←</b>	UNION (FLANGED)	- -		FLOOR SINK (3/4 GRATE)	-	DIA DIAMETER ID DIAMETER, INSIDE	SP STANDARD  SP STATIC PRESSURE  SUCT SUCTION	∞   O
5 ⊱SW	SOFT WATER	SW		STRAINER (SPECIFY TYPE)	-	← +3	FLOOR SINK (3/4 GRATE)	-	OD DIAMETER, OUTSIDE DIFF DIFFERENCE OR DELTA DC DIRECT CURRENT	SUM SUMM (-ER, -ARY, -ATION) SPLY SUPPY	
	CONDENSATE DRAIN	CD	$\leftarrow$	PIPE ANCHOR	-		SOIL/VENT STACK DESIGNATION	_	- DRY DBT DRY-BULB TEMPERATURE	SYS SYSTEM T	
, — DI — →	DISTILLED WATER	DI	<del></del>	PIPE GUIDE	-	$\begin{pmatrix} S \\ 1 \end{pmatrix}$ $\begin{pmatrix} 1 \\ P-3 \end{pmatrix}$	REFERENCE: DETAIL NUMBER	_	E	TAB TABULAT (-E, -ION) TEE TEE	
	DEIONIZED WATER	DE	<del></del>	EXPANSION JOINT		\(\overline{\P}\cdot \overline{3}\)	REFERENCE: SHEET NUMBER  UPRIGHT SPRINKLER	_	EFF EFFICIENCY ELEV ELEVATION EVAP EVAPORATE (-E, -ING, -ED, -	TEMP TEMPERATURE  TD TEMPERATURE DIFFERENCE  OR) TOTAL THERMOSTAT	
	PIPING TO BE HEAT TRACED	-	<b>├</b>	FLEXIBLE CONNECTOR			PENDENT SPRINKLER	_	EXP EXPANSION	OR) TSTAT THERMOSTAT THKNS THICK (-NESS) MCM THOUSAND CIRCULAR MILES	
LS	LAWN SPRINKLER SUPPLY	LS	**	TEE	-		UPRIGHT SPRINKLER, NIPPLED UP		°F FAHRENHEIT	MCF THOUSAND CUBIC FEET KIP FT THOUSAND FOOT-POUNDS	
, L3 ,	FIRE PROTECTION WATER SUPPLY	E	_ <u>†</u>	SIAMESE FIRE DEPARTMENT CONNECTION	FH	← — — →			FPM FEET PER MINUTE FPS FEET PER SECOND FT FOOT - FEET	KIP THOUSAND POUNDS TON TON	
, , , , , , , , , , , , , , , , , , ,	AUTOMATIC FIRE SPRINKLER	SP	F-++	FREESTANDING SIAMESE FIRE DEPARTMENT CONNE		<i>∽</i> — <b>- -</b> <i>- - - - - - - - - -</i>	PENDENT SPRINKLER, ON DROP NIPPLED		FTLB FOOT - POUND HZ FREQUENCY	U	NO H
, G	GAS-LOW-PRESSURE	G		WALL (SPECIFY NUMBERS AND SIZE OF OUTLET	,		SIDEWALL SPRINKLER PIPE HANGER		G	U U-FACTOR UNIT UNIT	
, ——MG——	GAS-MEDIUM-PRESSURE	MG	—— TP	TRAP PRIMER	TP	, — — — ¬	ALARM CHECK VALVE ASSEMBLY		GA GAGE OR GAUGE GAL GALLONS GPH GALLONS PER HOUR	V VAC VACUUM	Ш
⊱—HG —	GAS-HIGH-PRESSURE	HG	<b>₩</b>	CONCENTRIC REDUCER  ECCENTRIC REDUCER	<del>-</del>				STD GPH GPH, STANDARD GPD GALLONS PER DAY	V VALVE VAR VARIABLE	
← — -GV —	GAS VENT	GV	(GWH-1)		- ·		DDRY PIPE VALVE ASSEMBLY  DELUGE VALVE ASSEMBLY		GR GRAINS	VAV VARIABLE AIR VOLUME VEL VELOCITY VENT VENTILATION, VENT	PAG PAG
⊱—FOS—	FUEL OIL SUPPLY	FOS		EEQUIPMENT DESIGNATION (GAS WATER HEATE	-H #1) -	lacktriangle	PREACTION VALVE ASSEMBLY		HD HEAD HT HEAT	VERT VERTICAL V VOLT	
⊱—FOR—	FUEL OIL RETURN	FOR	P-1	NEW PLUMBING FIXTURE DESIGNATION	-	FH 🕌	EXISTING FIRE HYDRANT		HTR HEATER HGT HEIGHT	VOL VOLUME W	S 声
	FUEL OIL VENT	FOV		EXISTING PLUMBING FIXTURE TO BE REMOVED	ם - <u>-</u>	FH 📈	NEW FIRE HYDRANT		HPS HIGH-PRESSURE STEAM HTHW HIGH-TEMERATURE HOT WAT HP HORSEPOWE	ER WAL WALL WATER	(년) 원
	LUBRICATING OIL	LO	<ul><li>1)→</li><li>◇</li></ul>	PLUMBING KEYED NOTE:	- -	*X ].	WALL HYDRANT, TWO HOSE OUTLETS		HP B HOUR(S)	W WATT-HOUR	<b>B</b>
⊱ — -LOV— —	LUBRICATING OIL VENT	LOV	Y <sub>P</sub> TS	AQUASTAT  TAMPER SWITCH	TS	<b>, * * . . . . . . . . . .</b>	SIAMESE FIRE DEPARTMENT CONNECTION		I IPS INTERNATIONAL PIPE STD	WT WEIGHT Y	
⊱WO	WASTE OIL	WO	FS FS			+	FREESTANDING SIAMESE FIRE DEPARTMENT CONNECTION	ı	IPS IRON PIPE SIZE	YD YARD YR YEAR	
← — WOV— →	WASTE OIL VENT	WOV	FPS PS	FLOW SWITCH	FS PS	, <u>+</u> <del>*</del>	WALL (SPECIFY NUMBERS AND SIZE OF OUTLETS)		K KELVIN KW KILOWATT	Z ZONE	
	OXYGEN	OX	; Т Д "А"	PRESSURE SWITCH	WHA	FP/JP	FIRE PUMP / JOCKEY PUMP		KWH KILOWATT HOUR		
← LOX	LIQUID OXYGEN	LOX	, <u> </u>	WATER HAMMER ARRESTOR (PDI DESIGNATIO	N "A") PG	<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	TRAP PRIMER		LG LENGHT		NOT FOR CONSTRUCTION
← A ←	COMPRESSES AIR	A	<del>, +</del> <del>,</del> <del> </del> <del> </del>	PRESSURE GAUGE WITH GAUGE COCK THERMOMETER (SPECIFY TYPE)	-	PG	PROPANE GAS		LIN FT LINEAR FEET LIQ LIQUID LPS LOW-PRESSURE STEAM		DOCUMENT INCOMPLIA
⊱—A 150#—	COMPRESSED AIR 150 PSI	150 PSI	ç	AUTOMATIC AIR VENT	AAV				C LOW THEODOTE STEAM		NOT INTENDED FOR PERM RIDDING, OR CONSTRUCT  JAMES M. DREWRY
	CARBON DIOXIDE	CO <sub>2</sub>	<b>\</b>	CIRCUIT SETTER	CS						TEXAS LIC. NO. 635 November 23, 202
2	OAT BOTT BIOABL	_	<i>√ √ √ √ √ √ √ √ √ √</i>	VALVE IN RISER (TYPE AS SPECIFIED OR NOTI							
			,	RISER DOWN (ELBOW)	=D) - -						JOB NO.
			, <u>)</u>	RISER (ELBOW)	-						DESIGNED BY:
			·		- AC						DRAWN BY:
			<b>├</b>	AIR CHAMBER RISER OR DROP	-						
			, <u> </u>	BRANCH-BOTTOM CONNECTION	- -					ProjectVerde	CHECKED BY:
			, J	BRANCH-SIDE CONNECTION						ENGINEERING  TX Registration No. F-19841  723 S. Flores,	DATE: 1
			·	CAP ON END PIPE	- CAP					723 S. Flores, San Antonio, Texas 78204	P-00
			-	OAL ON LIND FIFE	OAI <sup>-</sup>						<b>F-U</b> (



## KEYED # NOTES:

- 1. 2" WASTE DOWN FROM PLUMBING FIXTURE.
- 2. 3" WASTE DOWN FROM PLUMBING FIXTURE.
- 4. 6" ROOF DRAIN DOWNSPOUT FROM ROOF DRAIN.
- 6. 6" STORM DRAIN PRIMARY AND SECONDARY PIPES STUB-OUT 5'-0" FROM BUILDING FOR ROOF AREA (3,150 SQUARE FEET).
- 7. 4" SANITARY SEWER PIPE STUB-OUT 5'-0" FROM BUILDING, ESTIMATE DEMAND LOAD IS <u>24.5</u> FIXTURE UNITS.

3. 2" COLD WATER UP FROM BELOW.

5. 6" OVERFLOW DRAIN DOWNSPOUT FROM OVERFLOW DRAIN.

8. 2" COLD WATER PIPE ENTRY STUB-OUT 5'-0" FROM BUILDING, ESTIMATE DEMAND LOAD IS 38.5 FIXTURE UNITS @ 46 GPM.

MBING

UNDERFLOOR

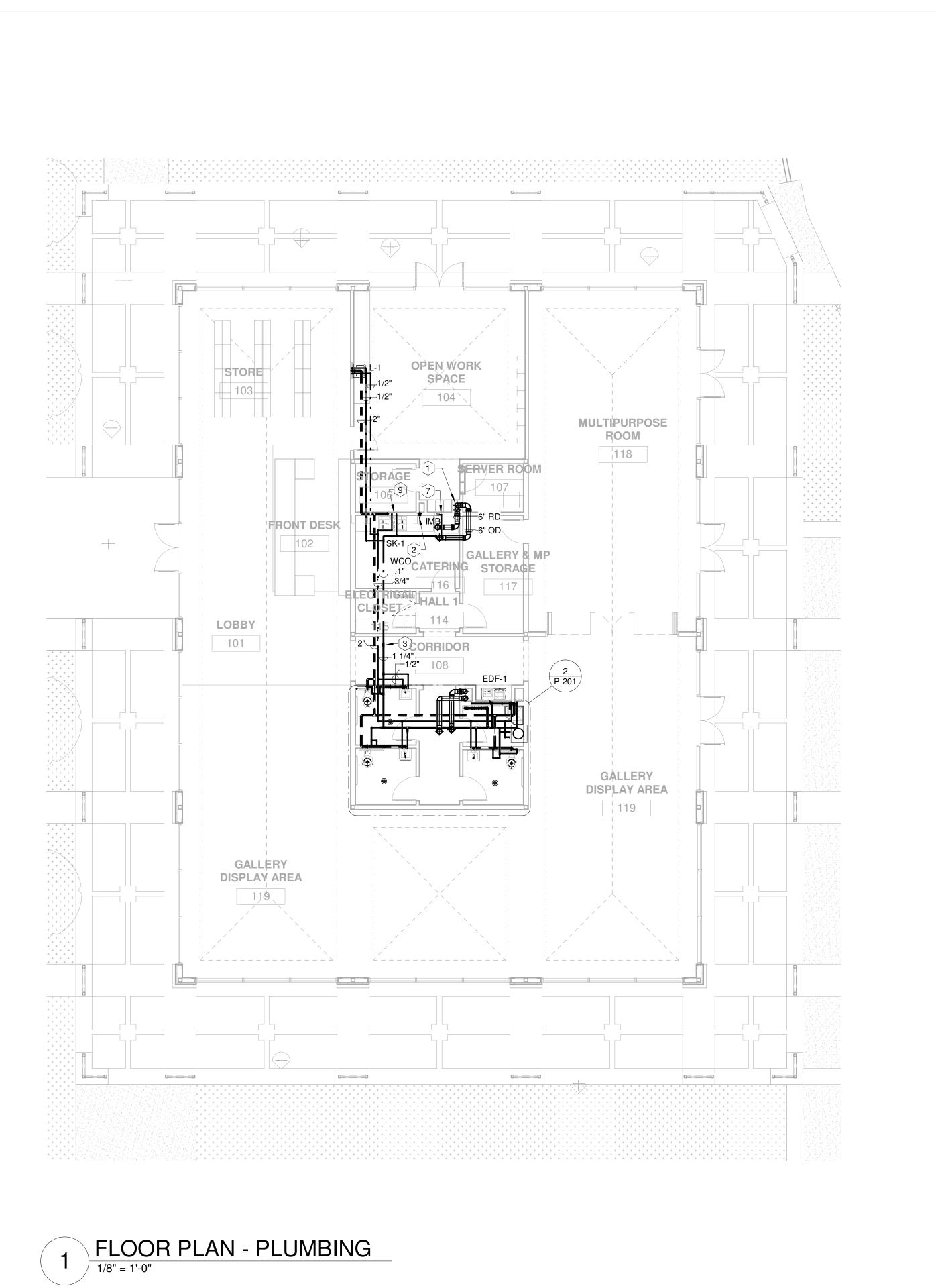
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JOB NO. A19021.00 DESIGNED BY: DRAWN BY: CHECKED BY: 12/1/2021 P-200

ProjectVerde ENGINEERING

TX Registration No. F-19841 723 S. Flores, San Antonio, Texas 78204



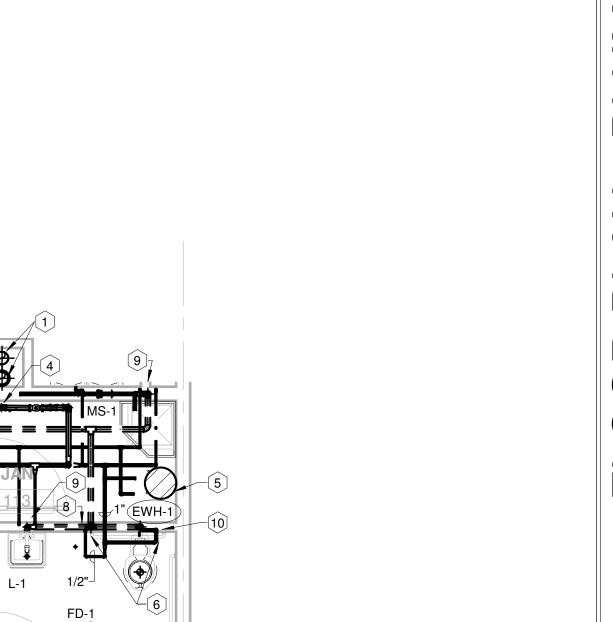


## KEYED # NOTES:

- 1. T6" RD / OD STORM PIPES DOWN IN CHASE TO BELOW THE FLOOR.
- 2. 3" WASTE DOWN FROM WALL CLEANOUT.
- 3. 1 1/4" COLD WATER UP TO ROOF HYDRANT.
- 4. 2" COLD WATER UP FROM BELOW. BRANCH OFF WITH A WATTS SERIES 007 BACKFLOW PREVENTER AND BYPASS VALVE.
- 5. ELECTRIC WATER HEATER SHALL BE MOUNTED ON A WALL SUPPORTED SHELF, LOCATED ABOVE MOP SINK APPROX. 7'-0" A.F.F.
- 6. PROVIDE WATER HAMMER ARRESTOR ON COLD AND HOT WATER PIPING EQUAL TO WATTS SERIES 15, PDI STANDARD "A".
- 1/2" COLD WATER PIPE DOWN IN THE WALL TO THE REFRIGERATOR ICE MAKER VALVE BOX INSTALLED 24" A.F.F.

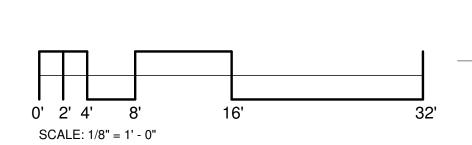
8. 1/2" TYPE 'K' COPPER TUBING CAST IN THE FLOOR SLAB AND CONNECTED TO FLOOR

- 9. 1/2" COLD AND HOT WATER PIPE DOWN IN THE WALL TO PLUMBING FIXTURE.
- 10. 1" COLD WATER PIPE DOWN IN THE WALL TO PLUMBING FIXTURE.



2 ENLARGED FLOOR PLAN - PLUMBING

TOILET ROOM 3



Project Verde
ENGINEERING

TX Registration No. F-19841
723 S. Flores,
San Antonio, Texas 78204

# DESCRIPTION

adway Suite 201 San Antonio, Texas 78205
Tel: 210.267.5246

723 S. Flores • San Antonio. Texas 78204

WORLD HERITAGE CENTER

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RIDDING, OR CONSTRUCTION
JAMES M. DREWRY
SEXAS LIC. NO. 63519
November 23, 2021

JOB NO.

A19021.00

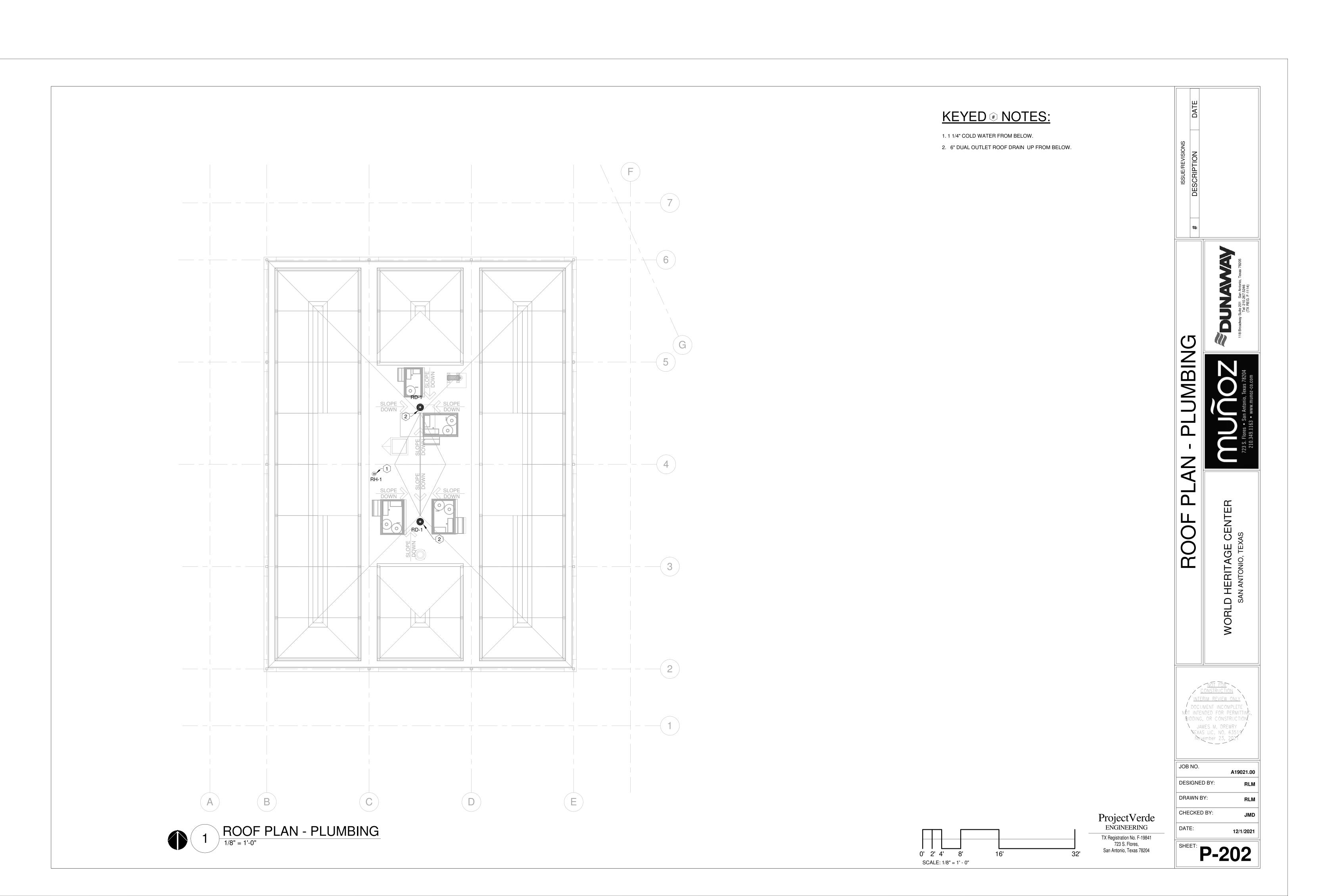
DESIGNED BY:
RLM

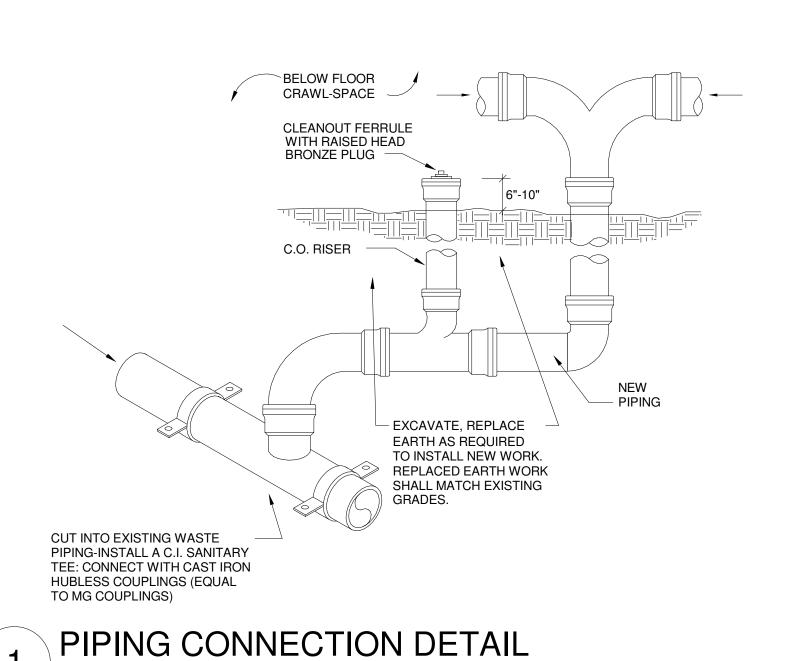
DRAWN BY:
RLM

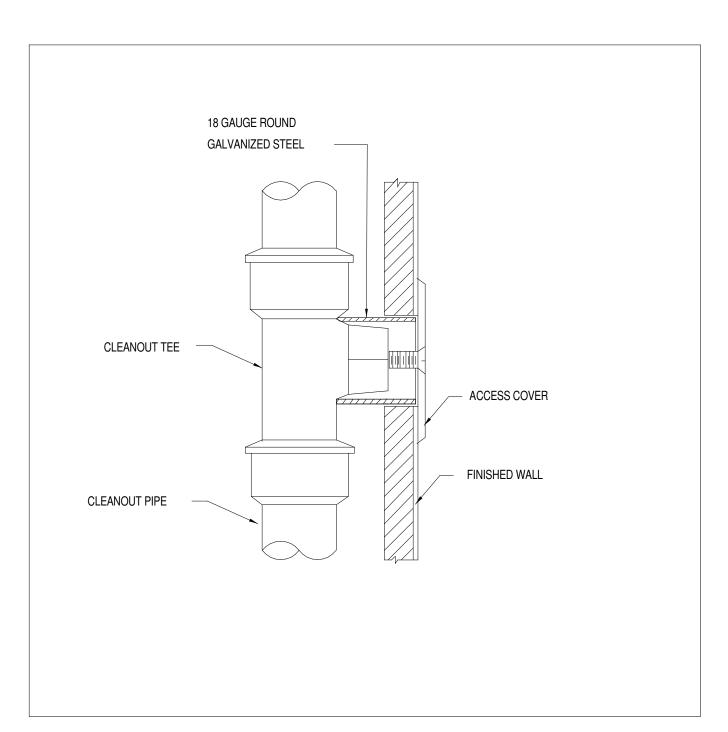
CHECKED BY:
JMD

DATE:
12/1/2021

SHEET:
P-201







2 WALL CLEANOUT PLBG. DETAIL

12" = 1'-0"

			RECOVERY		STORAGE CAP.	LINING	WATER	ENERGY	MIN. THERMAL	INPUT		CONTROL F	POWER		
MARK	SERVICE	TYPE	GPH	RISE (DEG.F)	(GALLONS)		TEMP. (DEG.F)	SOURCE	EFF. (%)	KW	VOLT/ PH/ HZ	VOLT/ PH/ HZ	AMPS	MODEL	NOTES
EWH-1	JANITOR ROOM	ELECTRIC, STORAGE	12.5	60	20	ENAMEL	110	ELEC.	95	1.5	208/ 1/ 60	N/A	N/A	RHEEM EGSP20	2,3

2. ASHRAE/IES 90.1, T&P VALVE.

PROVIDE EXPANSION TANK EQUAL TO WATTS MODEL DETA-5.
 PROVIDE LOW Nox EMISSIONS.

5. PROVIDE 5 YEAR LIMITED WARRANTY.

INSTALL POLYPROPYLENE DIRECT VENT PIPING IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
 PROVIDE AND INSTALL CONDENSATE NEUTRALIZER KIT FOR CONDENSING FLUE GASES ROUTED TO FLOOR DRAIN.

"UNI-STRUT"

DOMESTIC WATER
LINE/COPPER DRAIN LINE

FROM AHU'S

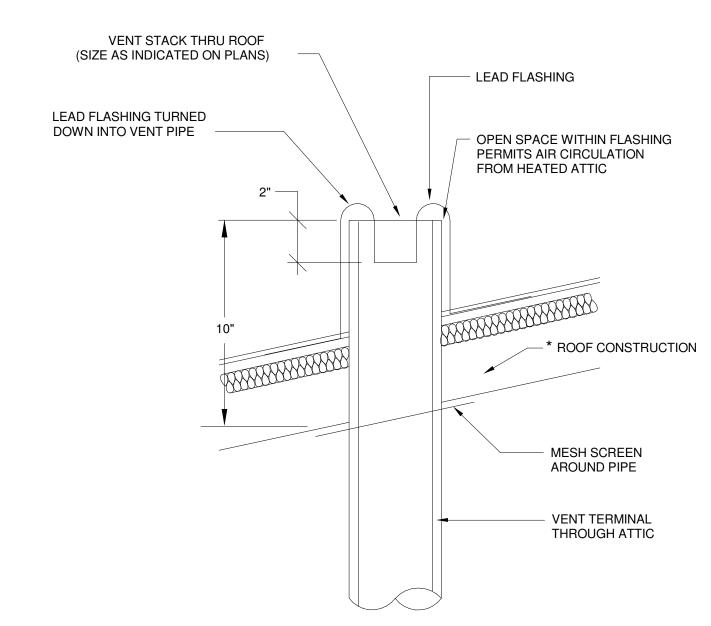
SADDLE

CFC-FREE
PUR/PIP SUPPORT

NOTE: PROVIDE INSULATION AND SADDLE
AT EVERY HANGER LOCATION.

3 DOMESTIC WATER PIPING SUPPORT DETAIL

12" = 1'-0"



	VENT	THRU ROOP DETAIL
<b>+</b>	12" = 1'-0"	

PLAN MARK	MINUS	war and	UGH-IN	20,000,000		FIXTURE SCHEDULE  DESCRIPTION
PLAN MARK				CW	HW	DESCRIPTION
WATER CLOSET WC-1	4"	2"	4*	1"	800	AMERICAN STANDARD No.3641.001 FLOOR MOUNT WHITE V.C. ELONGATED SIPHON JET (1.28 GPF) BOWL WITH TOP SPUD, WHITE OPEN FRONT SEAT LESS COVER AND ZURN No.SLOAN REGAL No.111 FLUSH VALVE AND FLUIDMASTER RUBBER TOILET SEAL FLOOR MOUNTED
LAVATORY L-1	2"	1-1/2"	1-1/4"	1/2"	<u>1200</u>	AMERICAN STANDARD DECLYN No.0321.026 WHITE V. C.  18-1/2 x 17" WALL- HUNG LAVATORY WITH TWO HOLES 4" CENTERS REAR OVERFLOW. PROVIDE DELTA FAUCET No.87T105 WITH BASE PLATE No.87T151 METERED FAUCET,0.25 GPM METERING CYCLE & FIXED GRID DRAIN, CHROME PLATED BRASS P-TRAP, STOPS AND SUPPLIES AND CARRIER.
SINK <u>SK-1</u> DOUBLE COMPARTMENT	2"	1-1/2"	1-1/2"	1/2"	1/2"	ELKAY No. LRAD-2219 "LUSTERTONE" 4-1/2" DEEP BOWL 2 HOLES PUNCH STAINLESS STEEL SINK. PROVIDE DELTA FAUCET No.26C3942-7R GOOSENECK FAUCET (2.2 GPM) WITH WRIST BLADE HANDLES, ELKAY No. LK-18 GRID DRAIN STRAINERS, TAILPIECE, CAST BRASS P-TRAP WITH CO., STOPS AND SUPPLIES.
ELECTRIC DRINKING FOUNTAIN EDF-1	1-1/2"	1-1/2"	1-1/2"	1/2"	22.2	ELKAY No. EZSTL8C, BI-LEVEL ELECTRIC DRINKING FOUNTAIN, LEAD FREE, WALL MOUNTED, WITH CHILLER 4.0 GPH OF 50DEG. F WITH 80DEG. F AMBIENT TEMP, 1/5 HP, 4.8 FL. AMPS. PROVIDE P-TRAP AND AND SUPPLY AND CARRIER.
THERMOSTATIC MIXING VALVE TMV-1		8222		1/2"	1/2"	POWERS No.MM431, MIXING VALVE, MINIMUM FLOW 2 GPM, OULET TEMPERATURE FROM 90 TO 110 DEG. WITH LOCKABLE TEMPERATURE SETTING, CHECK STOPS.
ICE MAKER WATER CONNECTION BOX IMB		), tipo	.==			GUY GRAY # IMOB WITH 36" 1/4" BRAIDED PE PIPING, BUSHING SET. CONNECT TO REFRIGERATOR ICE MAKER CONNECTION.
FLOOR DRAIN FD-1	3"	2"	3"		1/2"	J.R. SMITH # 2005Y-A-CD ROUND FLOOR DRAIN WITH NO HUB NICKE BRONZE HEEL PROOF STRAINER AND 1/2" IPS TRAP PRIMER CONN.
MOP SINK MS-1	3"	2"	3"	3/4"	3/4"	FIAT MODEL TSB-700 24" x 36" PRECAST TERRAZZO, 12" HIGH WITH 2" WIDE PLAIN SHOULDERS, STAINLESS STEEL INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK AND 3/4" HOSE THREAD ON SPOUT, #832-AA HOSE AND HOSE BRACKET AND 3 EACH # 889-CC MOP HANGERS.
ROOF DRAIN / OVERFLOW DRAIN RD-1			6"		2202	ZURN 100C FROET DRAIN BI-FUNCTIONAL ROOF DRAIN WITH 45 DEGREE PRIMARY OUTLET CONNECTION. POWDER COATED COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD, OVERFLOW PIPE 6" WITH STANDARD 5-1/4" HIGH CAST IRON DOME AND 6-1/4" HIGH CAST IRON OVERFLOW.
ROOF HYDRANT RH-1				3/4"	3	WOODFORD No.SRH-MS FREEZELSS SANITARY ROOF HYDRANT

PLUMBING SCHEDULES & DETAILS

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JAMES M. DREWRY

EXAS LIC. NO. 63519

November 23, 2021

JOB NO.

A19021.00

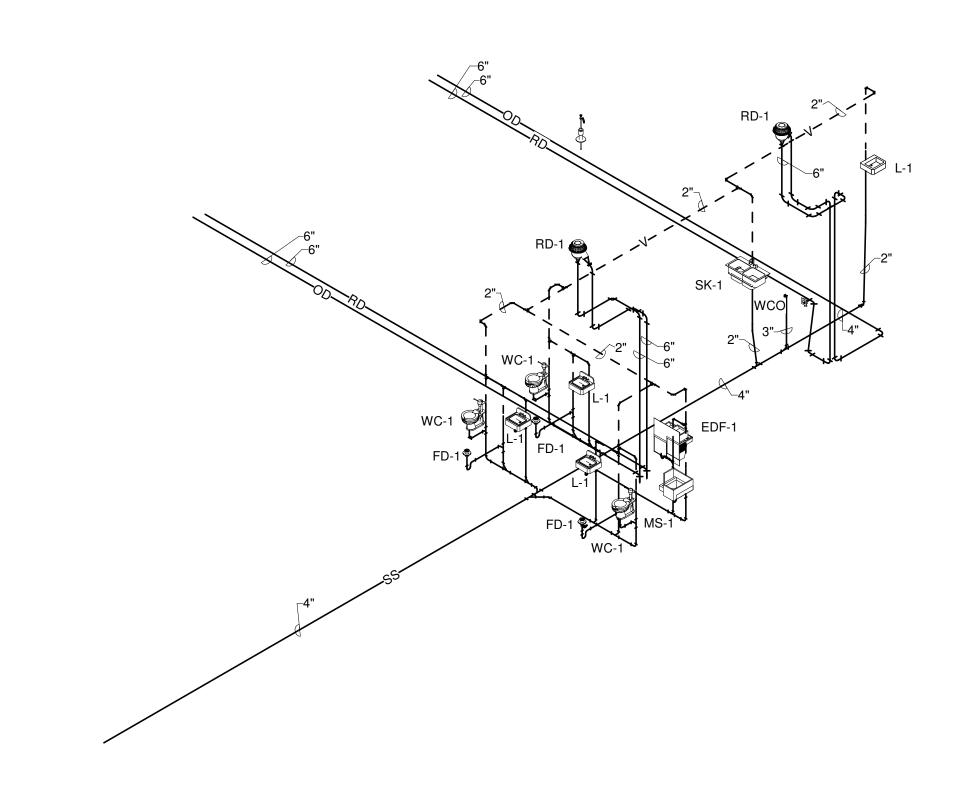
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DRAWN BY: RLM

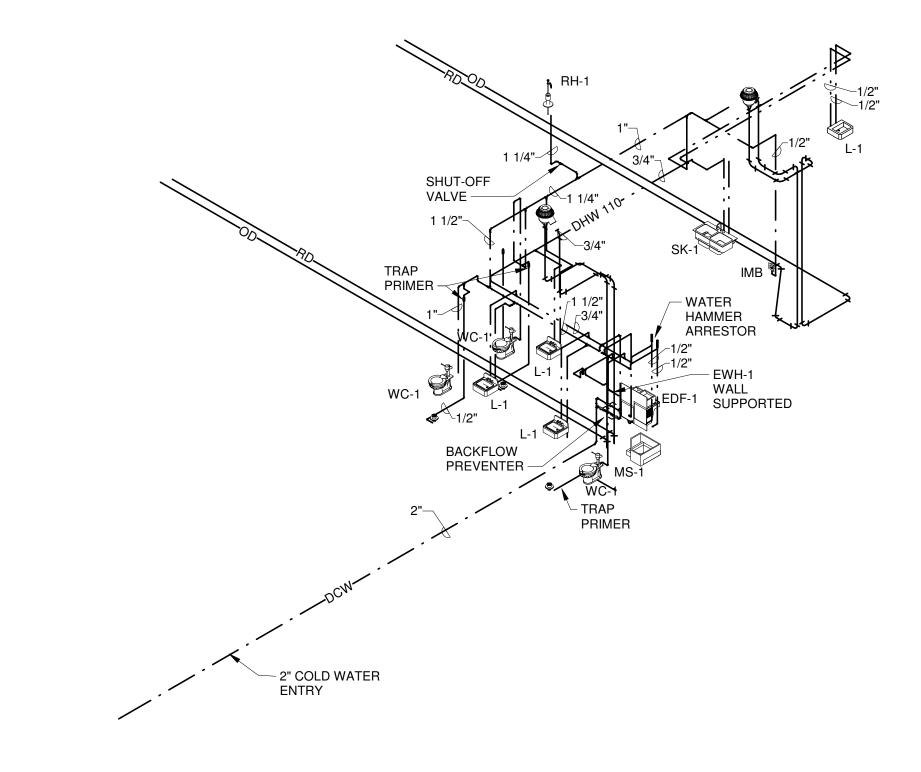
CHECKED BY: JMD

DATE: 12/1/2021

SHEET: P-401



1 WASTE AND VENT RISER DIAGRAM



2 WATER RISER DIAGRAM

PLUMBING RISER DIAGRAI

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JAMES M. DREWRY
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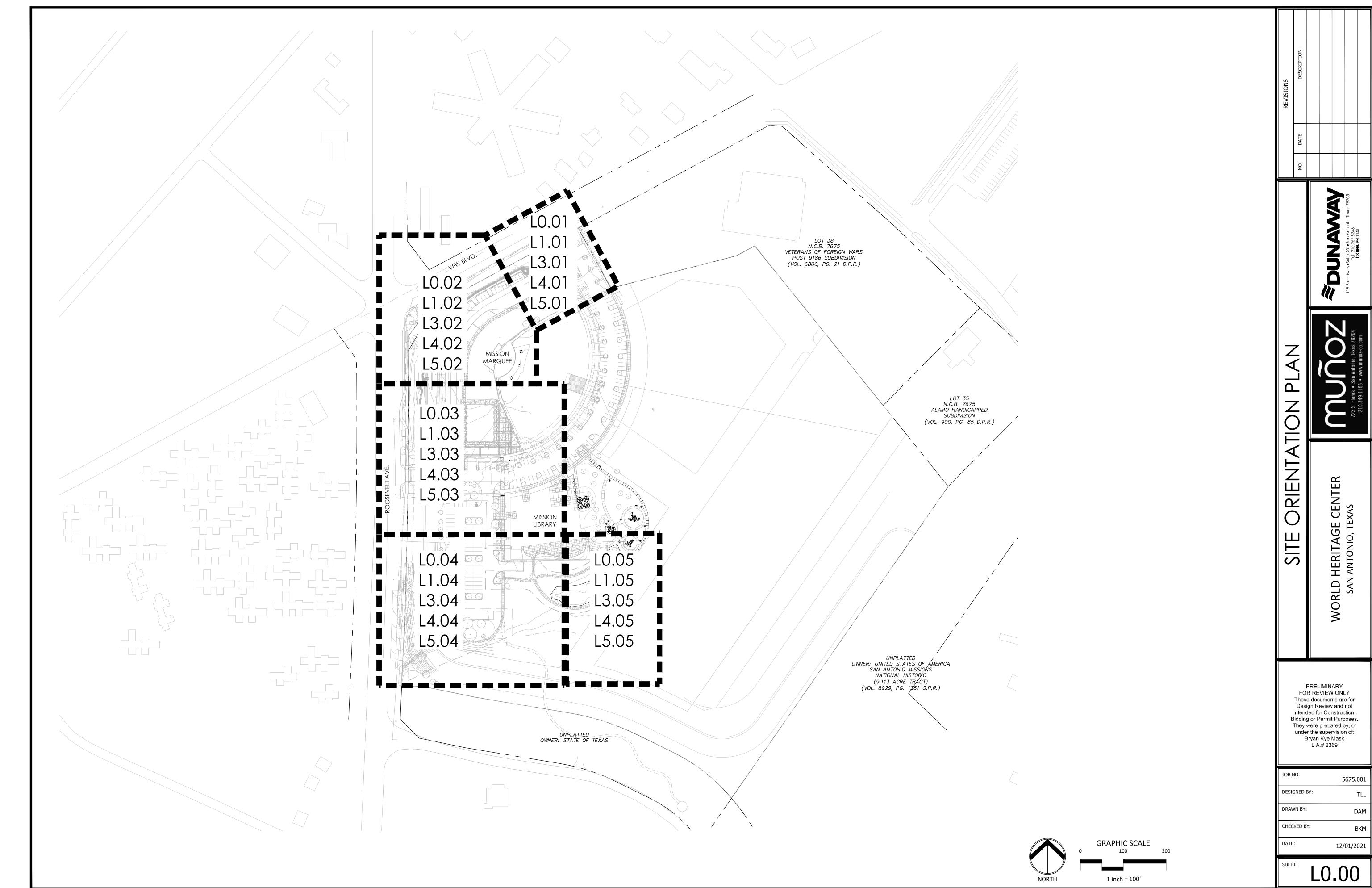
DESIGNED BY: RLM

DRAWN BY: RLM

CHECKED BY: JMD

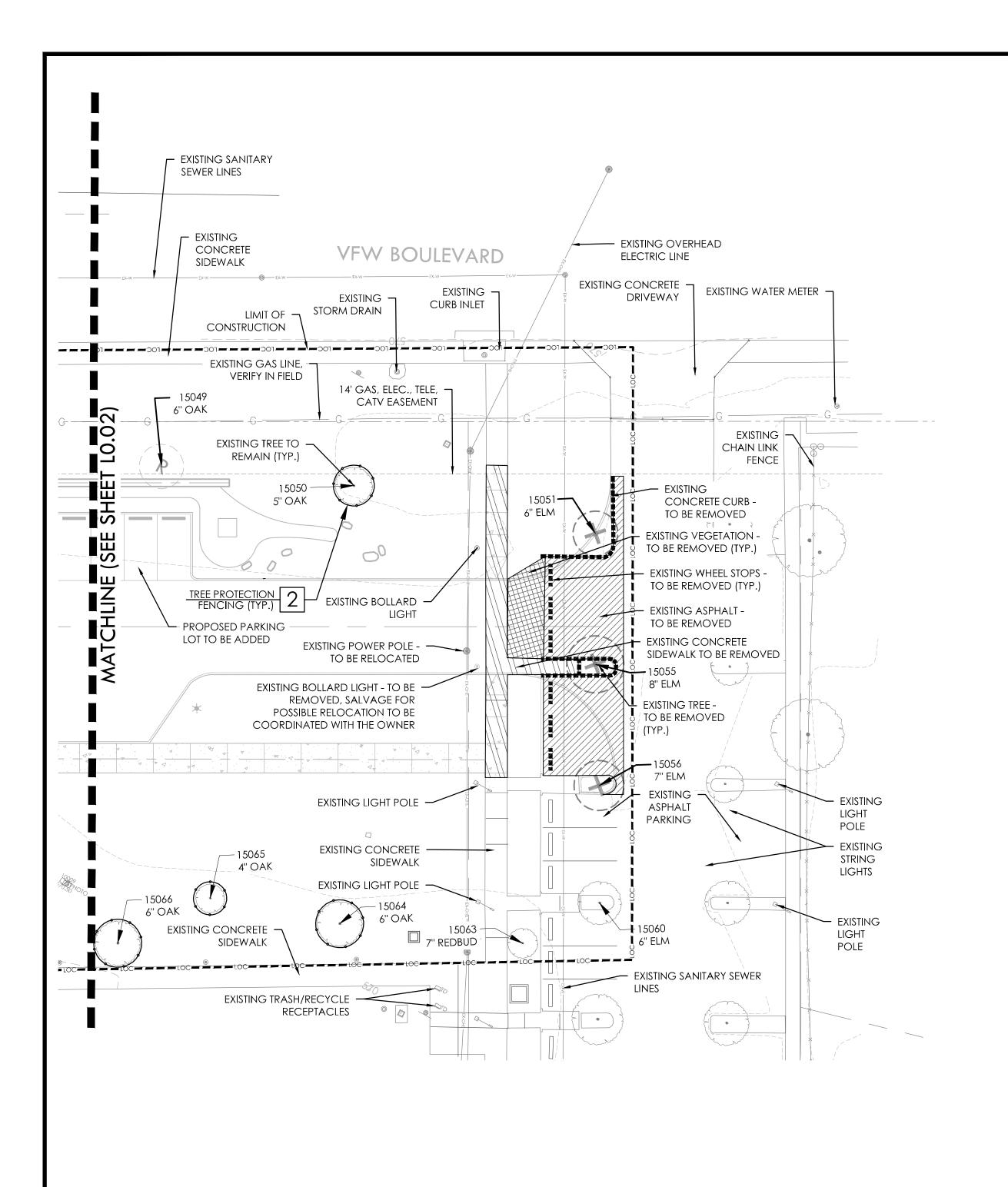
DATE: 12/1/2021

SHEET: P-501



FILENAME: 5675.001-Site Orientation.dwg PLOTTED BY: Damaris Martinez PLOTTED ON: Thursday, December 02, 2021 PLOTTED AT: 1:51:03 PM PLOTTED WITH: DWG TO PDF.pc3

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DRAWN BY:	DAM
CHECKED BY:	ВКМ
DATE:	



FILENAME: 5675.001-Ex Conditions Plan.dwg PLOTTED BY: Damais Martinez PLOTTED ON: Thursday, December 02, 2021 PLOTTED AT: 1:52:38 PM PLOTTED WITH: DWG TO PDF.pc3



PROPERTY LINE

FENCE LINE

LIMIT OF CONSTRUCTION

Will Of GOTTOMOGN

OVERHEAD ELECTRIC

EXISTING CONCRETE CURB TO BE REMOVED

AREA TO BE CLEARED

OF VEGETATION NECESSARY

TO FACILITATE CONSTRUCTION

AREA OF ASPHALT TO BE REMOVED

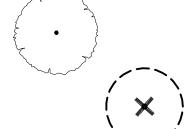
AREA OF SIDEWALK TO BE REMOVED

AREA OF CONCRETE DRAIN TO BE REMOVED

TRUNK PROTECTION FENCING

TREE PROTECTION FENCING

EXISTING TREE TO REMAIN



EXISTING TREE TO BE REMOVED

EXISTING TREE TO BE RELOCATED



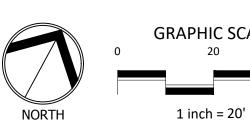
	DEMOLITION KE	Y	
KEY	DESCRIPTION	DETAIL NO:	DETAIL SHEET:
1	TRUNK PROTECTION FENCING	Α	L0.06
2	TREE PROTECTION FENCING	В	L0.06

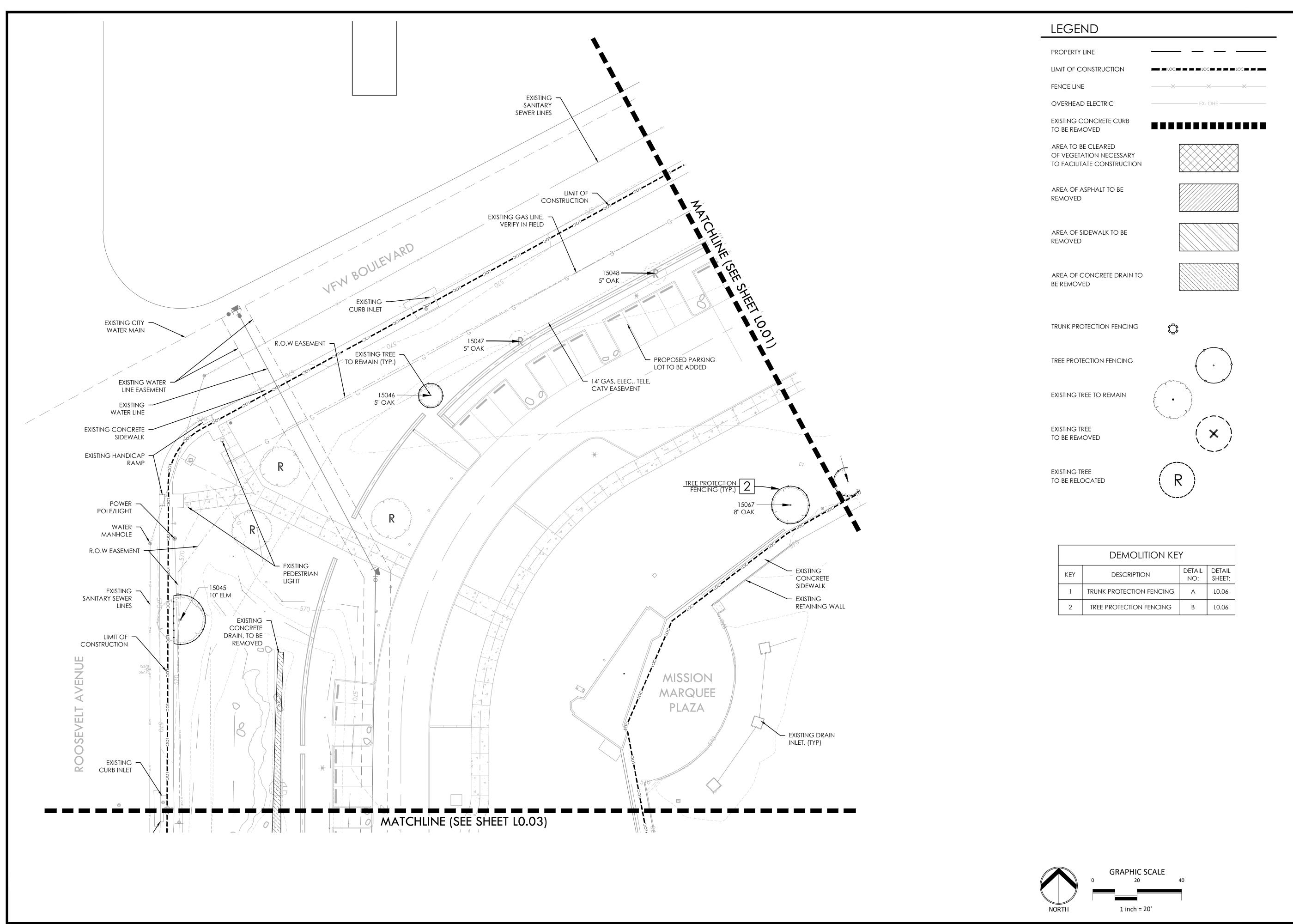
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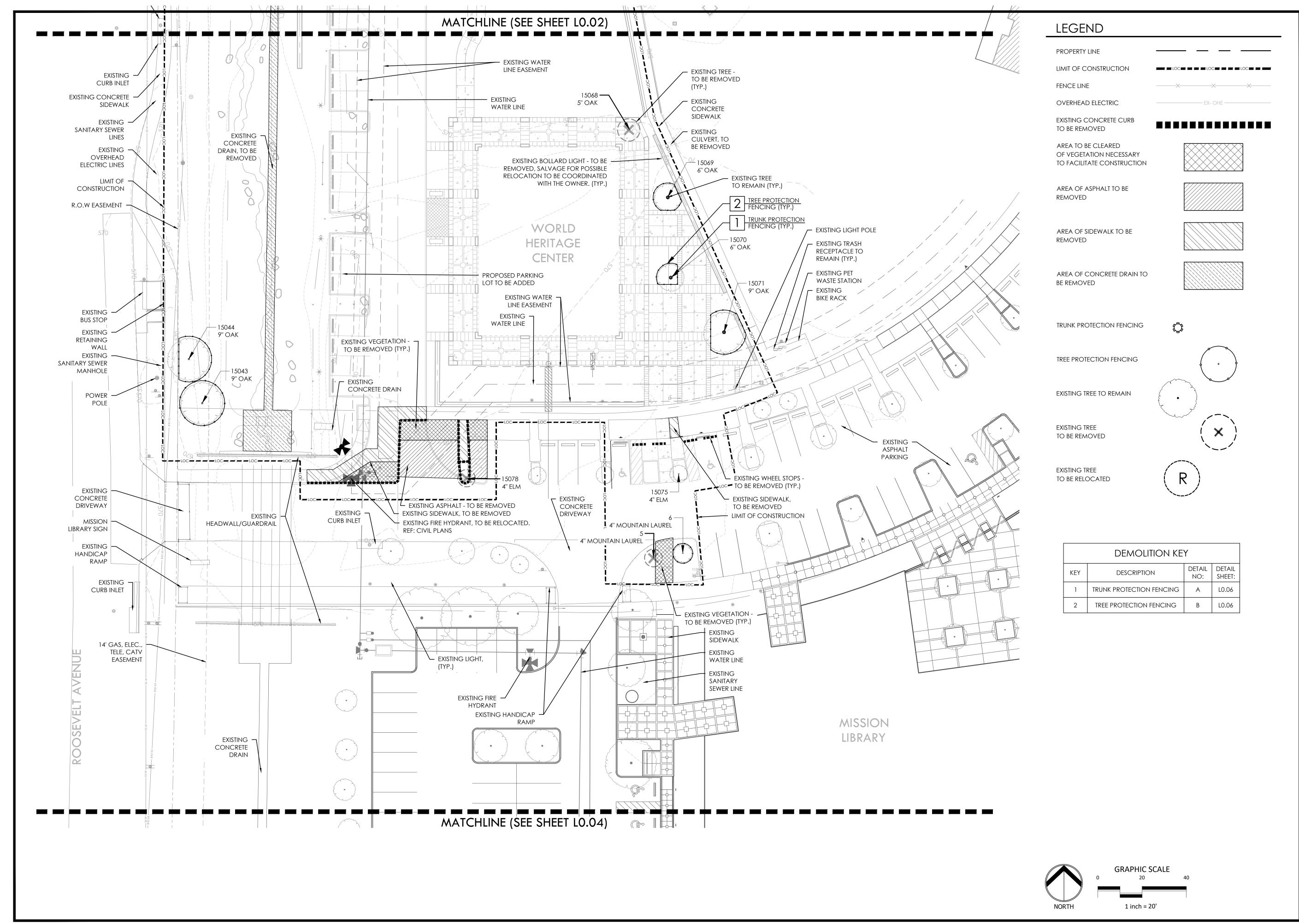


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DEMOLITION

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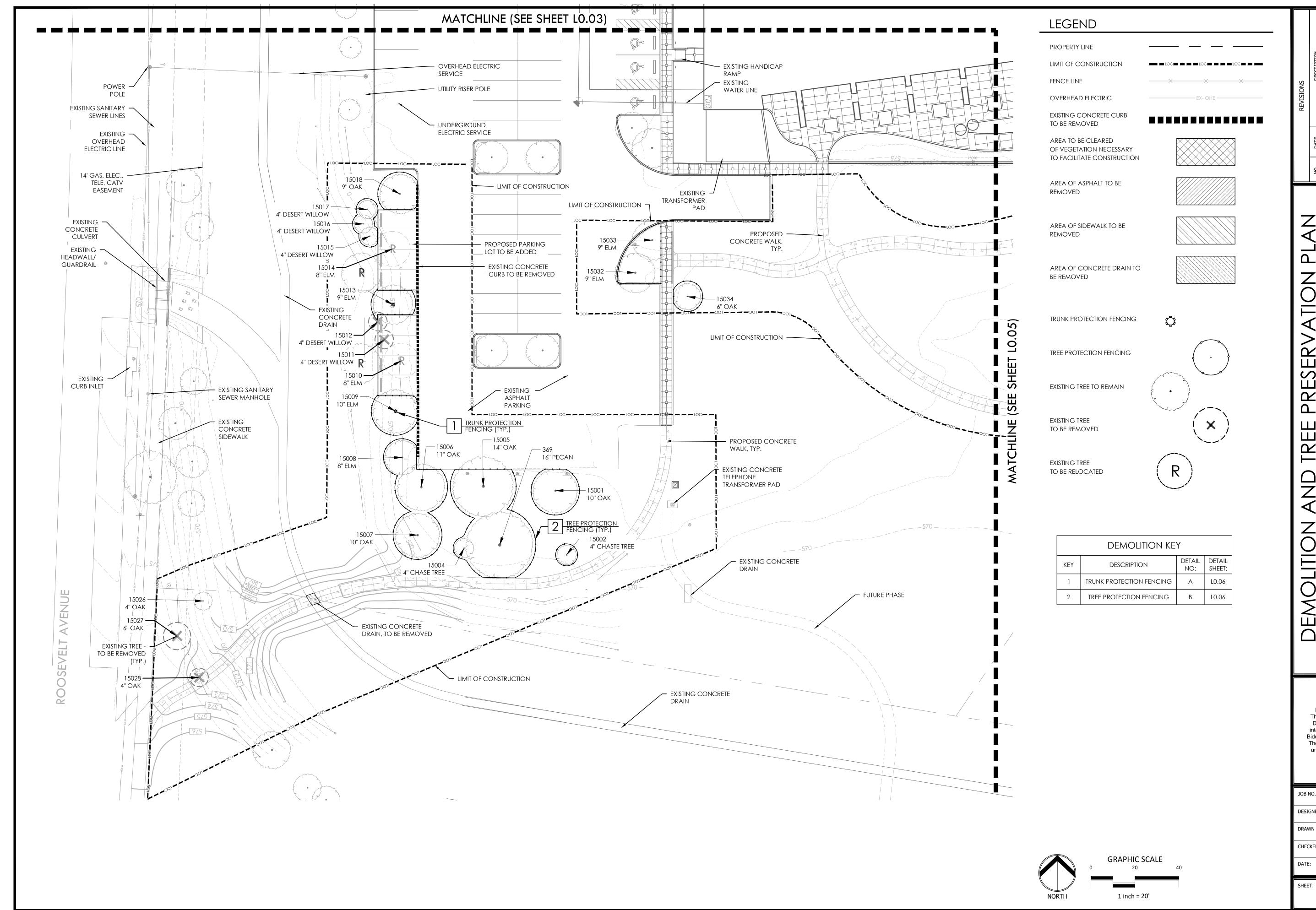
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DRAWN BY: DAM

CHECKED BY: BKM

DATE: 12/01/2021

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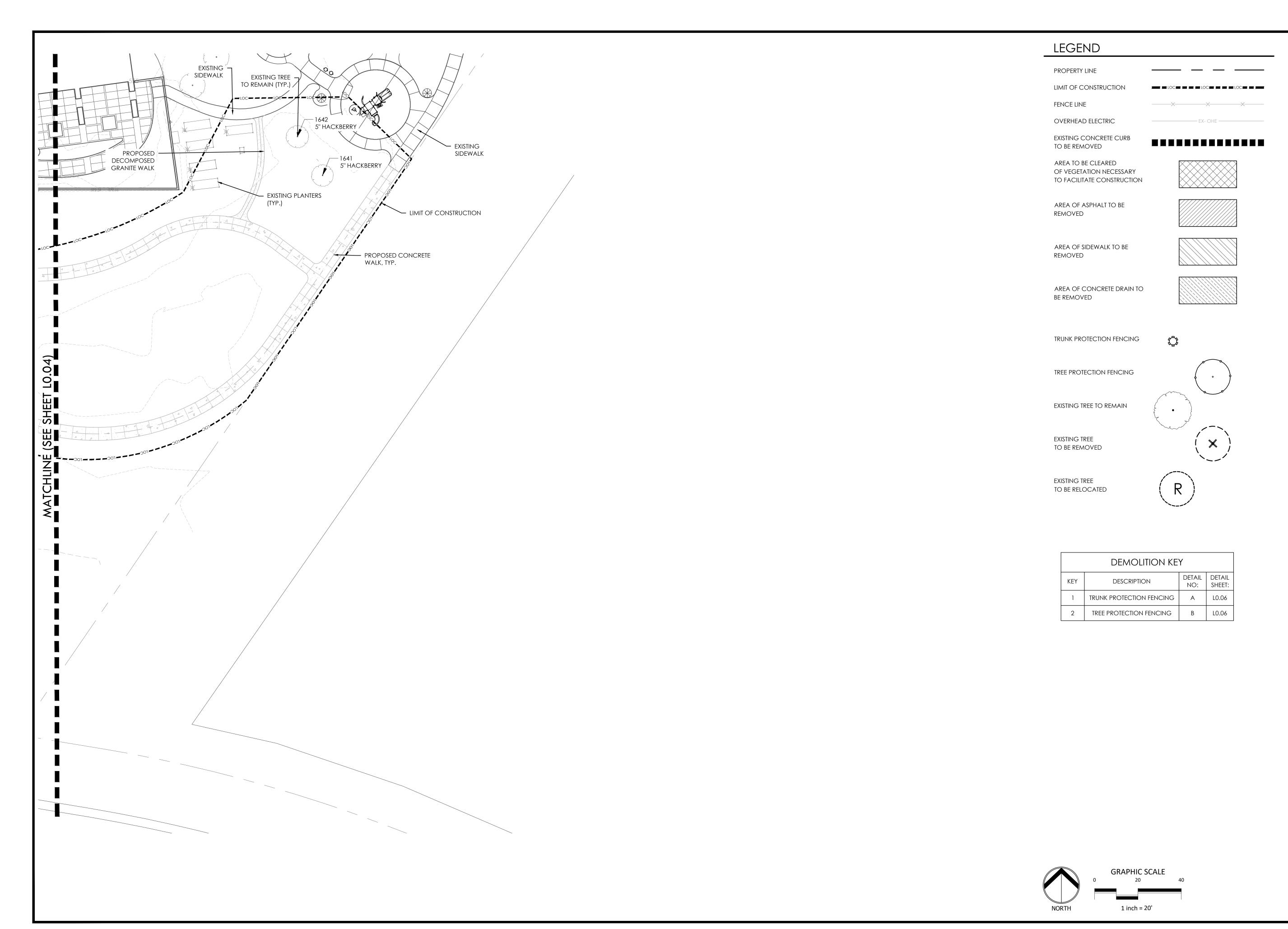
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FILENAME: 5675.001-Ex Conditions Plan.dwg PLOTTED BY: Damaris Martinez PLOTTED ON: Thursday, December 02, 2021 PLOTTED AT: 1:59:56 PM PLOTTED WITH: DWG TO PDF.pc3 DEMOLITION AND TRE

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10.05

TREE INVENTORY													
		Spe 5.0" -	rstory cies* · 11.5"	Significant Tree Significant 6" - 23.5" 10.0" - 2		- 23.5"	* Heritage 3:1 Heritage 1:1**		Addition Inches Preserved Mitigation	s d fo n ***			
PT#	Species	Removed	Pres erved	Removed	Preserved	Removed	Preserved	Removed	Preserved	Removed	Preserved	Preserve	ed
15060	Elm (6)				6								
15063	Redbud (7)			7								i	
	Oak (5)		5										
	Oak (6)				6								
	Oak (5)		5										
	Oak (5)		5										
	Oak (5)		5										
			<u> </u>		6								
	Oak (6)				6								
	Oak (4)											4	
	Oak (6)				6								
	Oak (8)				8								
	Elm (10)				10								
15069	Oak (6)				6								
15070	Oak (6)				6								
15071	Oak (9)				9								
	Elm (4)											4	
	Oak (9)				9								
	Oak (9)				9								
	Oak (4)				9						-	<b>-</b>	
												4	
	Elm (9)				9								
	Elm (9)				9								
	Oak (6)				6								
	Oak (9)				9								
15017	Desert Willow (4)											4	
15016	Desert Willow (4)											4	
15015	Desert Willow (4)											4	
	Elm (8)				8								
	Elm (9)				9								
	Elm (8)				8								
	Elm (10)				10								
	Elm (8)				8								
	Oak (11)				11								
	Oak (14)		ļ		14								
	Oak (10)				10								
	Chaste tree (4)		ļ									4	
	Chaste tree (4)											4	
	Oak (10)				10								
	Mountain Laurel (4)											4	
	Pecan (16)				16								
1641	Hackberry (5)											5	
	Hackberry (5)											5	
ub. Tot. Ir		0	20	7	218	0	0	0	0	0	0		40
otal inche	s by category=		20		225		0		0		0		
reservation percentage= 100%					Significant		7%	Heritage F	reservation	N	/A		40
Mitigation required (Commercial) = -12 Commercial (i						-128							
	uired (Capital Imp.) =		15		np. (inches)	-161.75		Heritage	Mitigation	(inches)	0		
	\ - ~Pri 11/P-/		-	- ~		•	I			· · · · · · · · · · · · · · · · · · ·	_	•	

No category to fall below 10% preservation;

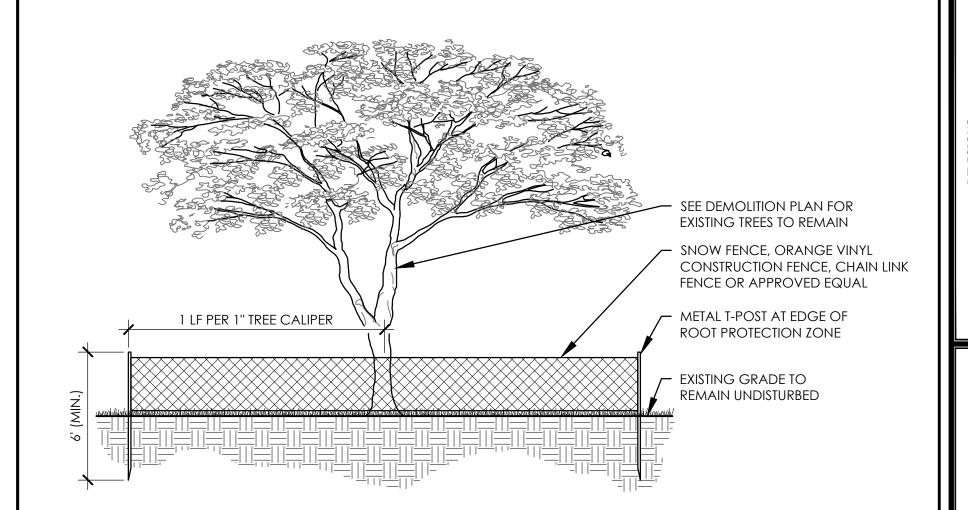
reserved- Tree to remain that meets root protection zone requirements described in section 35-523 of the UDC.

Mitigation 1:1 for significant trees below minimum preservation requirements; 3:1 for heritage trees below 100%
\* Small species: Condalia, Redbud, Tx. Mountain Laurel, Tx. Persimmon, Hawthorn, Possumhaw - these are mitigated at 1:1 for Heritage Trees

\* Ashe Juniper, Huisache, Mesquite, Arizona Ash, Hackberry protected at 10" dbh and mitigated at 1:1 for heritage trees

\*\* Mitigation Trees: Unprotected-sized trees to be used for mitigation calculations; subtract inches from mitigation owed

PRESSURE TREATED #2 -YELLOW PINE 2 x 4 WITH 1" SPACE BETWEEN EACH 12 GA. WIRE STAPLED TO EACH 2 X 4 

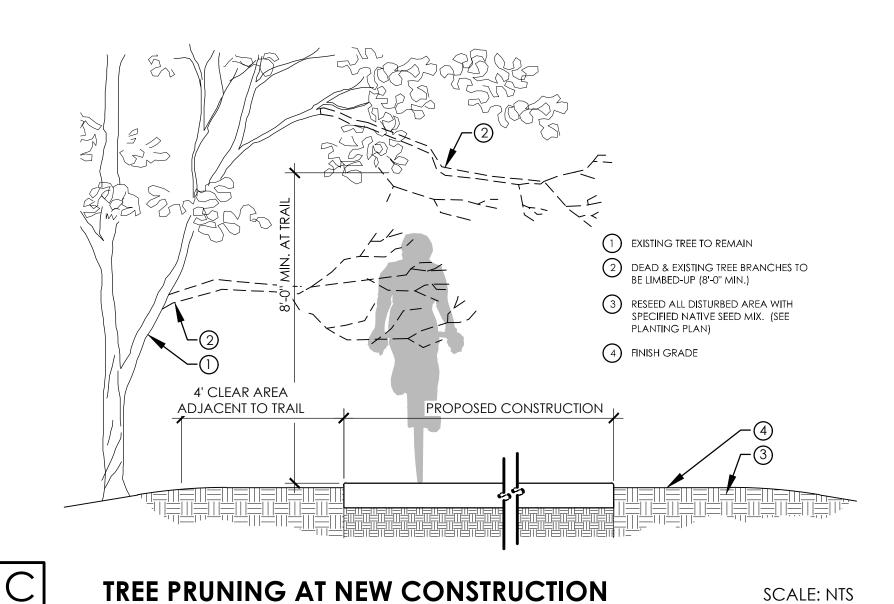


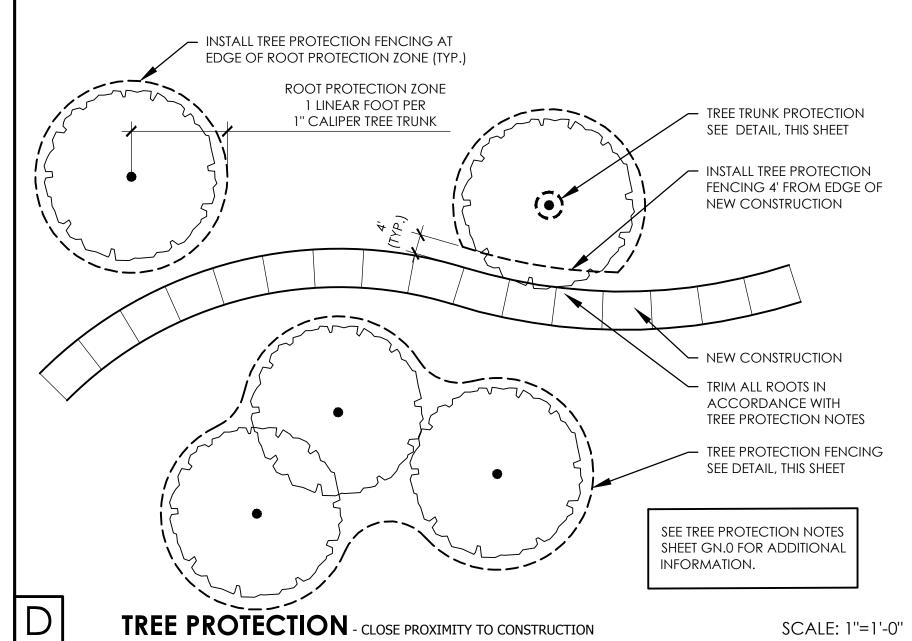
**EXISTING TREE TRUNK PROTECTION** 

TREE PROTECTION FENCING

SCALE: 1"=1'-0"

SCALE: N.T.S.





ADDITIONAL CHARTS AS REQUIRED BY CITY

MITIGATION TREES FOR ORIGINAL LANDSCAPE TREES					
PT#	Species Removed	Species Provide			
15056	<u> </u>	Elm			
15055	Elm	Elm			
15051	Elm	Elm			
15068	Oak	Oak			
15078	Elm	Elm			
15028	Oak	Oak			
15027	Oak	Oak			
15012	Desert Willow	Desert Willow			
15011	Desert Willow	Desert Willow			
5	Mountain Laurel	Mountain Laurel			

FINAL CANOPY COV	
Developments of all site must provide a mir	
canopy cover as listed below for the entire	gross project area
outside the regulatory floodplain.	
A. Single Family Residential	38%
B. Multi-Family and Nonresidential	25%
C. CRAG Area	15%
Lot Size	120,215 S.F
Canopy Required (25%)	30,054 S.F
Existing Trees (Full Credit)	
21 Oak (875 SF Each)	18,375
10 Cedar Elm (875 SF/Each)	8,750
1 Redbud (275 SF/Each)	275
3 Desert Willow (275 SF/Each)	825
2 Hackberry (875 SF/Each)	1,750
1 Pecan (1200 SF/Each)	1,200
1 Mountain Lauel (275 SF/Each) 39	275
<del>_</del>	
Proposed Trees (90% Credit)	
4 Cedar Elm (787.5 SF/Each)	3,150
10 Desert Willow (247.5 SF/Each)	2,475
9 Retama (247.5 SF/Each)	2,228
12 Texas Persimmon (243 SF/Each)	2,916
8 Texas Mountain Laurel (247.5 SF/Eac	•
2 Yaupon Holly (247.5 SF/Each)	495
3 Live Oak (787.5 SF/Each)	2,363
3 Mexican Sycamore (1080 SF/Each)	3,240
<u>51</u>	
Total Canopy Provided	50,296 S.F
New Canopy Required	-20,242 S.F

Parking Lot Shading		
Total Paved Area	19,298 SF	
Square Feet of Shaded Area for 25%	4824.5 SF Minimum required 20 Poin	ts
Square Feet of Shaded Area for 35%	6754.3 SF Additional 5 Point	3
Square Feet of Shaded Area for 50%	9649 SF Additional 15 Poin	ts
SF Required	4824.5	
Existing Tree Shade Credits	3450	
Proposed Tree Shade Credits	8012.5	
Total Shade Credits	11462.5	
Parking Lot Shading Points Earned	35	

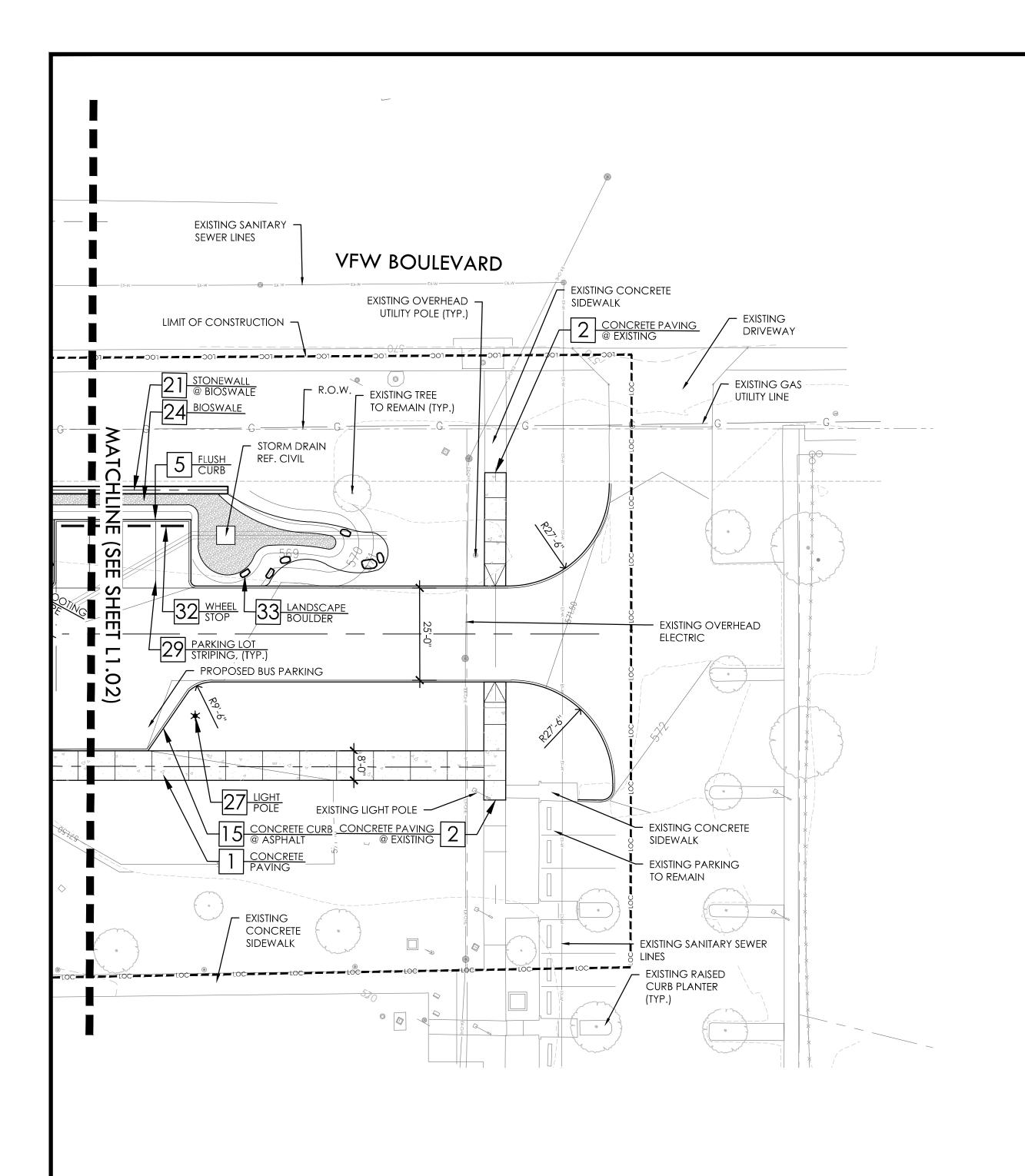
MITIGATION SUMMARY	
Mitigation Inches Necessary for Heritage Trees	С
Existing Significant Trees- Total Caliper Inches	245
Required Significant Tree Preservation	40%
Significant Trees Preserved	97%

TREE

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PROPERTY LINE

LIMIT OF CONSTRUCTION

DRIVE CENTER LINE

EXISTING CONTOURS

PROPOSED CONTOURS

FENCE LINE

OVERHEAD ELECTRIC

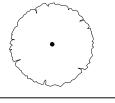
TRAIL CENTERLINE

EXISTING CONCRETE CURB

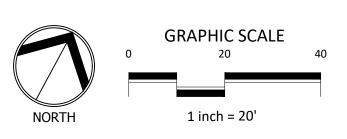
EXPANSION JOINT

CONTROL JOINT

EXISTING TREE TO REMAIN



	CONSTRUCTION	KEY	
KEY	DESCRIPTION	DETAIL NO:	DETAIL SHEET:
1	CONCRETE PAVING	Α	L3.01
2	4" CONCRETE PAVING @ EXISTING	С	L3.01
3	SCORED CONCRETE PAVING	D	L3.01
4	CONCRETE BANDING	Е	L3.01
5	FLUSH CURB	F	L3.01
6	STONE PAVERS @ PLANTING	G	L3.01
7	PEBBLE PAVING	Н	L3.01
8	PAVING LAYOUT	I	L3.01
9	STONE PAVING BAND	Α	L3.02
10	PEBBLE PAVING @ CONCRETE	В	L3.02
11	CONCRETE PAVING @ PLANTING	С	L3.02
12	DECOMPOSED GRANITE	D	L3.02
13	STONE PAVERS	Е	L3.02
14	SEAT WALL @ PAVERS	F	L3.02
15	CONCRETE CURB @ ASPHALT	G	L3.02
16	ACCESSIBLE RAMP	Н	L3.02
17	FREESTANDING STONE WALL	Α	L3.03
18	SEAT WALL	Е	L3.03
19	STONE WALL	Α	L3.04
20	CUT STONE SEAT	В	L3.04
21	STONE WALL @ BIOSWALE	Α	L3.05
22	BIOSWALE @ CULVERT	В	L3.05
23	BIOSWALE @ PARKING	С	L3.05
24	BIOSWALE	D	L3.05
25	RECESSED WALL LIGHT FIXTURE	Α	L3.06
26	GARDEN BOLLARD	D	L3.06
27	LIGHT POLE	Е	L3.06
28	IN-GRADE LIGHT	F	L3.06
29	PARKING LOT STRIPING	Α	L3.07
30	HANDICAP SYMBOL	В	L3.07
31	HANDICAP PARKING SIGN	С	L3.07
32	WHEEL STOP	D	L3.07
33	LANDSCAPE BOULDER	Е	L3.07
34	MULCH	В	L4.07
35	CONCRETE TRAIL PAVING	С	L3.04
36	RETAINING SIGN WALL	D	L3.04
37	LIGHT FOOTING ON SLOPE	F	L3.05



NO. DATE DESCRIPTION

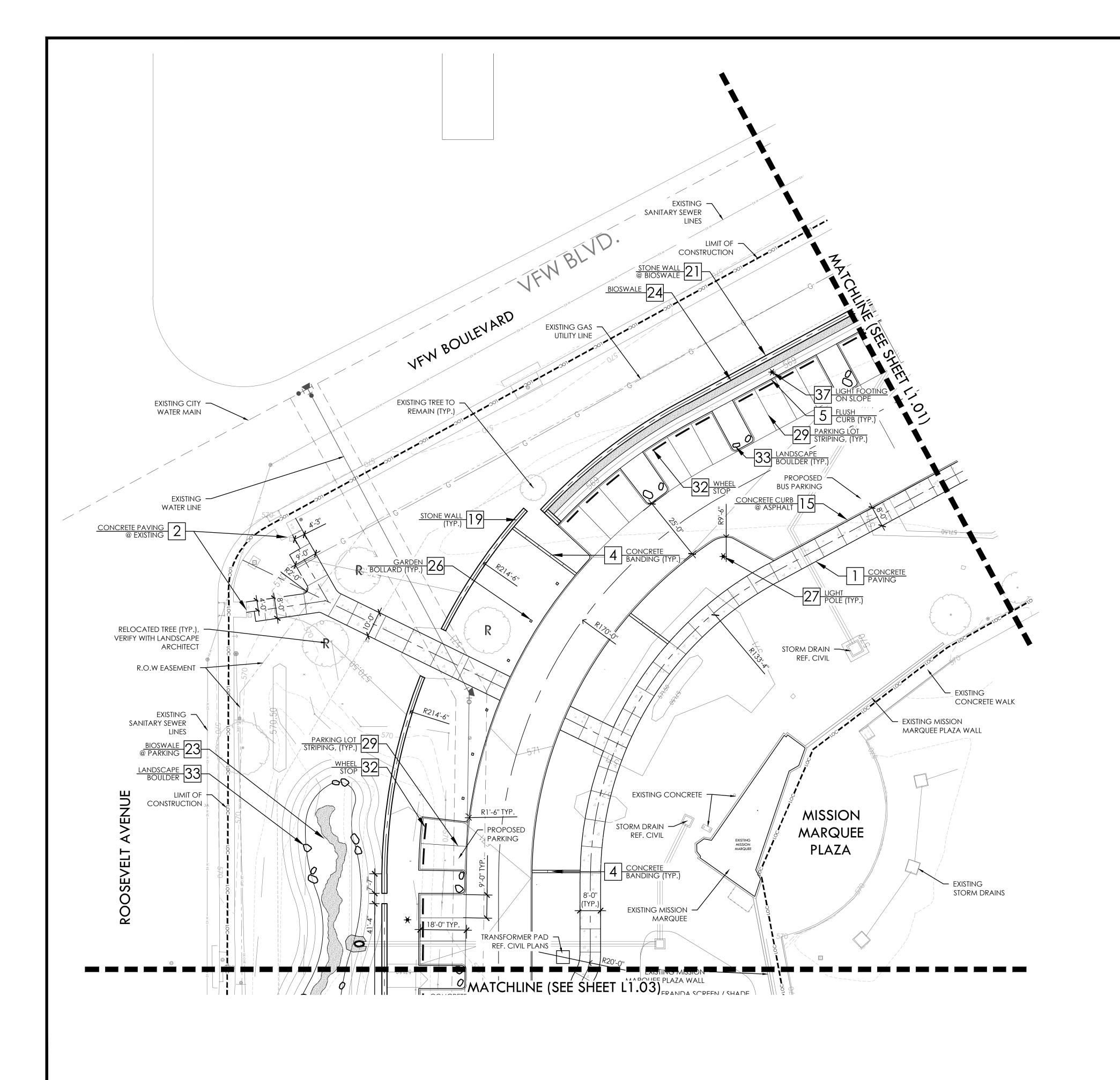
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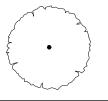
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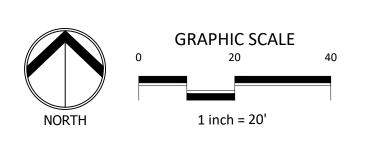


PROPERTY LINE	
LIMIT OF CONSTRUCTION	LOC
DRIVE CENTER LINE	
EXISTING CONTOURS	
PROPOSED CONTOURS	
FENCE LINE	×××
OVERHEAD ELECTRIC	——— ОН ————
TRAIL CENTERLINE	
EXISTING CONCRETE CURB	
EXPANSION JOINT	
CONTROL JOINT	

EXISTING TREE TO REMAIN



KEY	DESCRIPTION	DETAIL NO:	DET/ SHE
1	CONCRETE PAVING	А	L3.0
2	4" CONCRETE PAVING @ EXISTING	С	L3.0
3	SCORED CONCRETE PAVING	D	L3.0
4	CONCRETE BANDING	Е	L3.0
5	FLUSH CURB	F	L3.
6	STONE PAVERS @ PLANTING	G	L3.
7	PEBBLE PAVING	Н	L3.
8	PAVING LAYOUT	I	L3.
9	STONE PAVING BAND	Α	L3.0
10	PEBBLE PAVING @ CONCRETE	В	L3.0
11	CONCRETE PAVING @ PLANTING	С	L3.0
12	DECOMPOSED GRANITE	D	L3.0
13	STONE PAVERS	Е	L3.0
14	SEAT WALL @ PAVERS	F	L3.0
15	CONCRETE CURB @ ASPHALT	G	L3.0
16	ACCESSIBLE RAMP	Н	L3.0
17	FREESTANDING STONE WALL	Α	L3.0
18	SEAT WALL	Е	L3.0
19	STONE WALL	Α	L3.0
20	CUT STONE SEAT	В	L3.0
21	STONE WALL @ BIOSWALE	Α	L3.0
22	BIOSWALE @ CULVERT	В	L3.0
23	BIOSWALE @ PARKING	С	L3.0
24	BIOSWALE	D	L3.0
25	RECESSED WALL LIGHT FIXTURE	Α	L3.0
26	GARDEN BOLLARD	D	L3.0
27	LIGHT POLE	Е	L3.0
28	IN-GRADE LIGHT	F	L3.0
29	PARKING LOT STRIPING	Α	L3.0
30	HANDICAP SYMBOL	В	L3.0
31	HANDICAP PARKING SIGN	С	L3.0
32	WHEEL STOP	D	L3.0
33	LANDSCAPE BOULDER	Е	L3.0
34	MULCH	В	L4.0
35	CONCRETE TRAIL PAVING	С	L3.0
36	retaining sign wall	D	L3.0
37	LIGHT FOOTING ON SLOPE	F	L3.0

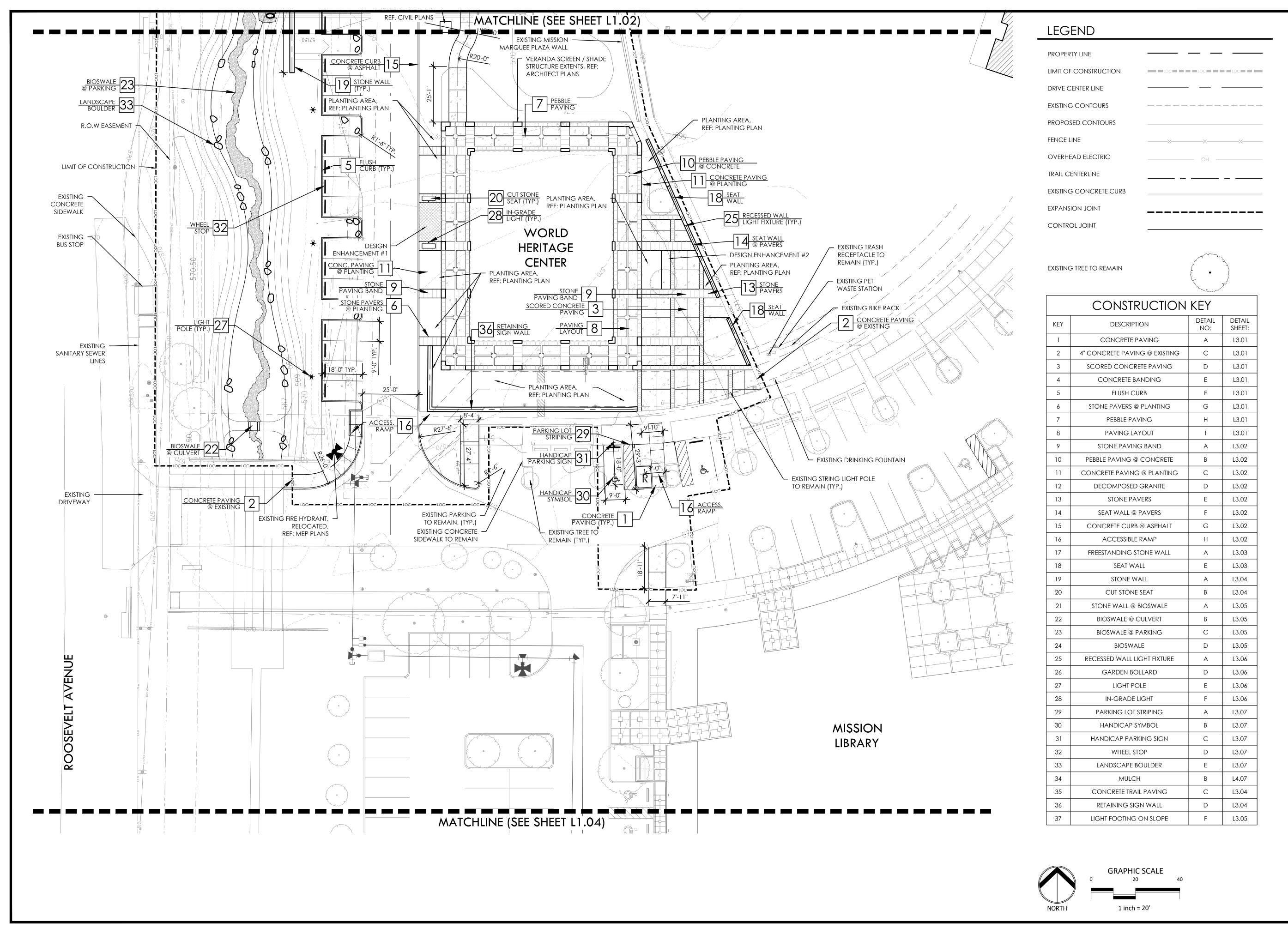


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L.A.# 2369

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DRAWN BY:	ММР
CHECKED BY:	ВКМ
DATE:	12/01/2021

FILENAME: 5675.001-Layout Plan.dwg PLOTTED BY: Damaris Martinez PLOTTED ON: Thursday, December 02, 20 PLOTTED AT: 2:29:59 PM PLOTTED WITH: DWG TO PDF.pc3



FILENAME: 5675.001-Layout Plan.dwg PLOTTED BY: Damaris Martinez PLOTTED ON: Thursday, December 02, 2 PLOTTED AT: 2:31:06 PM PLOTTED WITH: DWG TO PDF.pc3 DATE DESCRIPTION

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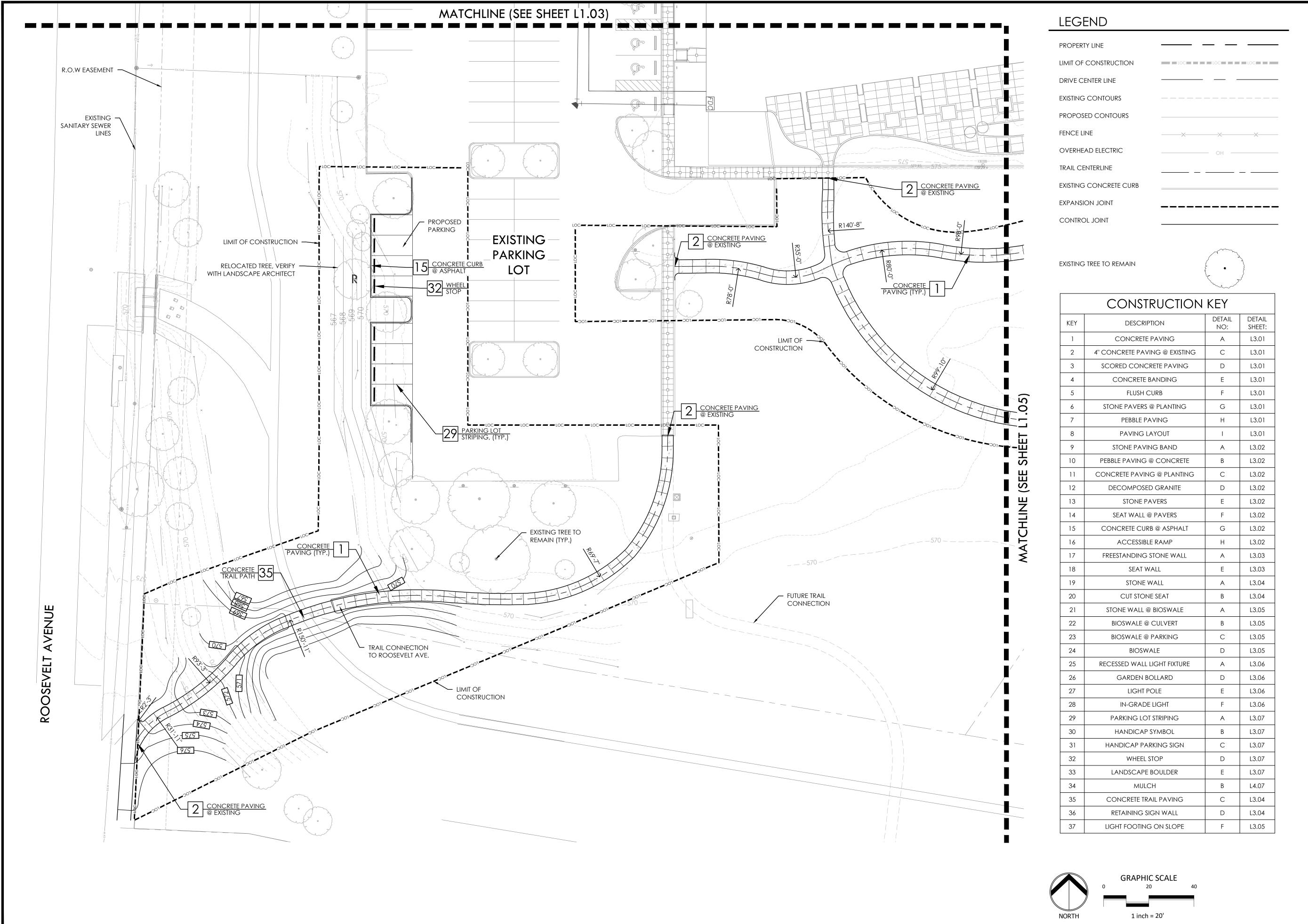
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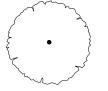


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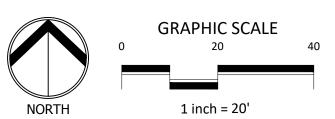
# LEGEND

PROPERTY LINE	
LIMIT OF CONSTRUCTION	Local
DRIVE CENTER LINE	
EXISTING CONTOURS	
PROPOSED CONTOURS	
FENCE LINE	×××
OVERHEAD ELECTRIC	——— ОН ————
TRAIL CENTERLINE	
EXISTING CONCRETE CURB	
EXPANSION JOINT	
CONTROL JOINT	

existing tree to remain



	CONSTRUCTION	KEY	
KEY	DESCRIPTION	DETAIL NO:	DETAIL SHEET:
1	CONCRETE PAVING	А	L3.01
2	4" CONCRETE PAVING @ EXISTING	С	L3.01
3	SCORED CONCRETE PAVING	D	L3.01
4	CONCRETE BANDING	Е	L3.01
5	FLUSH CURB	F	L3.01
6	STONE PAVERS @ PLANTING	G	L3.01
7	PEBBLE PAVING	Н	L3.01
8	PAVING LAYOUT	I	L3.01
9	STONE PAVING BAND	Α	L3.02
10	PEBBLE PAVING @ CONCRETE	В	L3.02
11	CONCRETE PAVING @ PLANTING	С	L3.02
12	DECOMPOSED GRANITE	D	L3.02
13	STONE PAVERS	Е	L3.02
14	SEAT WALL @ PAVERS	F	L3.02
15	CONCRETE CURB @ ASPHALT	G	L3.02
16	ACCESSIBLE RAMP	Н	L3.02
17	FREESTANDING STONE WALL	Α	L3.03
18	SEAT WALL	Е	L3.03
19	STONE WALL	Α	L3.04
20	CUT STONE SEAT	В	L3.04
21	STONE WALL @ BIOSWALE	Α	L3.05
22	BIOSWALE @ CULVERT	В	L3.05
23	BIOSWALE @ PARKING	С	L3.05
24	BIOSWALE	D	L3.05
25	RECESSED WALL LIGHT FIXTURE	Α	L3.06
26	GARDEN BOLLARD	D	L3.06
27	LIGHT POLE	Е	L3.06
28	IN-GRADE LIGHT	F	L3.06
29	PARKING LOT STRIPING	Α	L3.07
30	HANDICAP SYMBOL	В	L3.07
31	HANDICAP PARKING SIGN	С	L3.07
32	WHEEL STOP	D	L3.07
33	LANDSCAPE BOULDER	Е	L3.07
34	MULCH	В	L4.07
35	CONCRETE TRAIL PAVING	С	L3.04
36	retaining sign wall	D	L3.04
37	LIGHT FOOTING ON SLOPE	F	L3.05



NO. DATE DESCRIPTION

an Antonio, Texas 78205
57.5246
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DUNANA 118 Broadway-Suite 201-San Antonio, Texas 782 Tel: 210.267.5246 (TXREG F-1114)

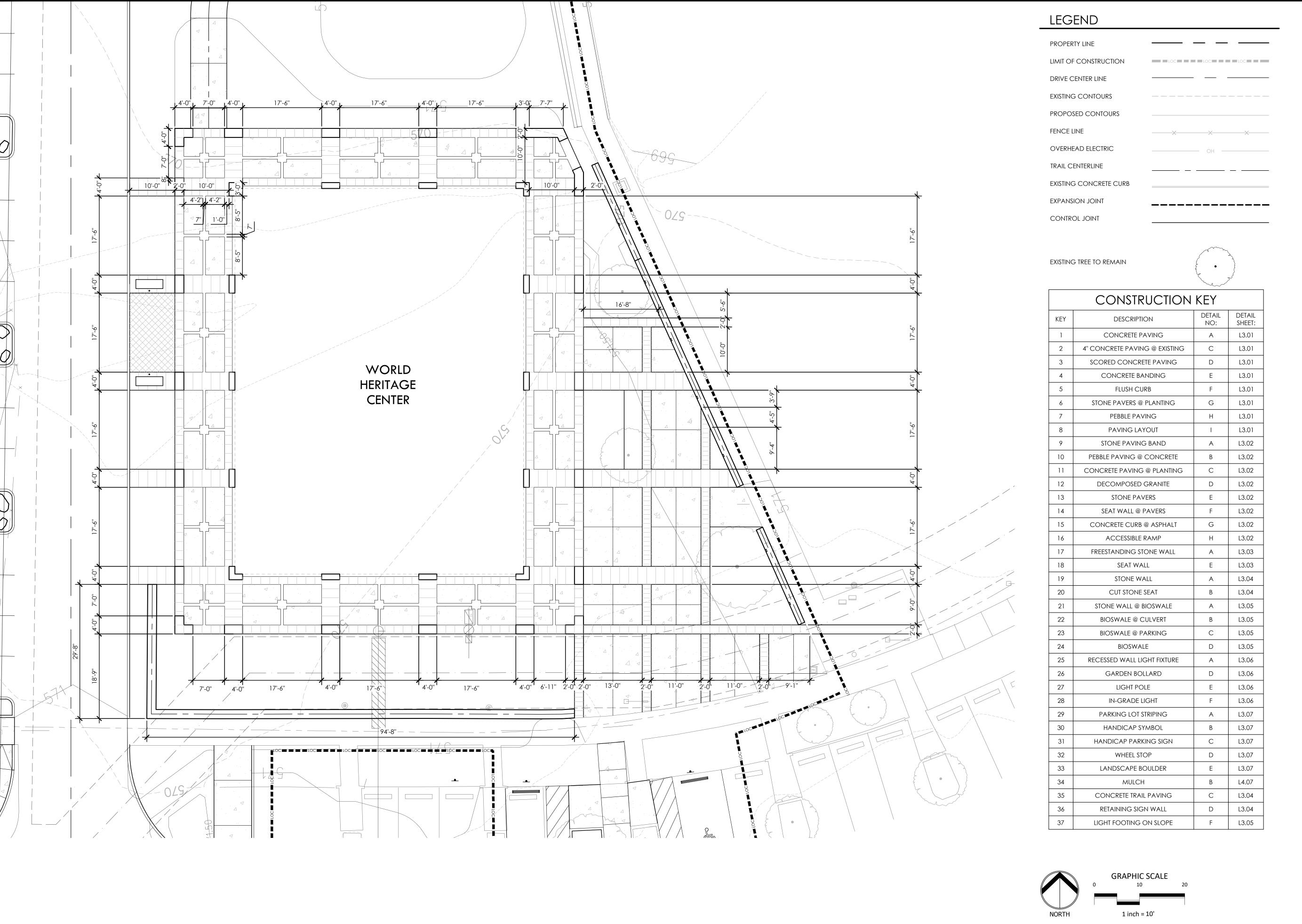
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L1.06

CONCRETE FINISH SCHEDULE				
TYPE	DESCRIPTION			
A	CONCRETE PAVING - MATCH COLOR OF CONCRETE AT ADJACENT LIBRARY			
A	PROPERTY			

PAVING TYPE SCHEDULE				
TYPE	DESCRIPTION			
Α	STONE PAVERS, 24" WIDTH - 'LEUDERS' TAN			
D	PEBBLE PAVING - 1/2" -1" BLACK MEXICAN BEACH PEBBLES, REF.			
В	SPECIFICATIONS			

STONE WALL VENEER SCHEDULE				
TYPE	DESCRIPTION			
Α	FREE STANDING WALL STONE VENEER - MATCH STONE TYPE/PATTERN OF ADJACNET MISSION LIBRARY			
_	LOW SEAT WALL STONE VENEER - MATCH STONE TYPE/PATTERN OF			
В	ADJACENT MISSION LIBRARY			

## SHEET INDEX:

### NO. SHEET NAME

- L3.00 DETAIL INDEX
- L3.01 SITE DETAILS
- A CONCRETE PAVING
- B EXPANSION JOINT
- C 4" CONCRETE PAVING @ EXISTING
- D SCORED CONCRETE PAVING
- E CONCRETE BANDING
- F FLUSH CURB
- G STONE PAVERS @ PLANTING
- H PEBBLE PAVING
- I PAVING LAYOUT
- L3.02 SITE DETAILS A STONE PAVING BAND
- B PEBBLE PAVING @ CONCRETE
- C CONCRETE PAVING @ PLANTING
- D DECOMPOSED GRANITE
- E STONE PAVERS
- F SEAT WALL @ PAVERS
- G CONCRETE CURB @ ASPHALT
- H ACCESSIBLE RAMP
- I ACCESS. RAMP W/ CURB SIDES

### L3.03 SITE DETAILS

- A FREESTANDING STONE WALL TYPE 'A'
- B ELEVATION: STONE WALL END (TYP.)
- C STONE WALL TOP
- D ELEVATION: STONE WALL TYPE 'A'
- e seatwall
- F ELEVATION: LOW SEAT WALL

### L3.04 SITE DETAILS

- A STONE WALL ELEVATION
- B CUT STONE SEAT
- C CONCRETE TRAIL PAVING
- D SECTION: CONCRETE TRAIL PAVING
- E RETAINING SIGN WALL

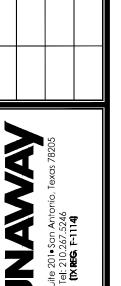
### L3.05 SITE DETAILS

- A ELEVATION: STONE WALL @ BIOSWALE
- B BIOSWALE @ CULVERT
- C BIOSWALE @ PARKING
- D BIOSWALE
- E SECTION: BIOSWALE RETAINING WALL
- F LIGHT FIXTURE FOOTING AT SLOPE

## L3.06 LIGHTING DETAILS & SCHEDULE

- A RECESSED WALL LIGHT FIXTURE
- B LIGHT FIXTURE
- C LIGHT FIXTURE FOOTING
- D GARDEN BOLLARD
- E LIGHT POLE F IN-GRADE LIGHT
- L3.07 SITE DETAILS
- A PARKING LOT STRIPING
- B HANDICAP SYMBOL
- C HANDICAP PARKING SIGN D WHEEL STOP
- E LANDSCAPE BOULDER DETAIL

REVISIONS	DESCRIPTION			
	DATE			
	NO.			



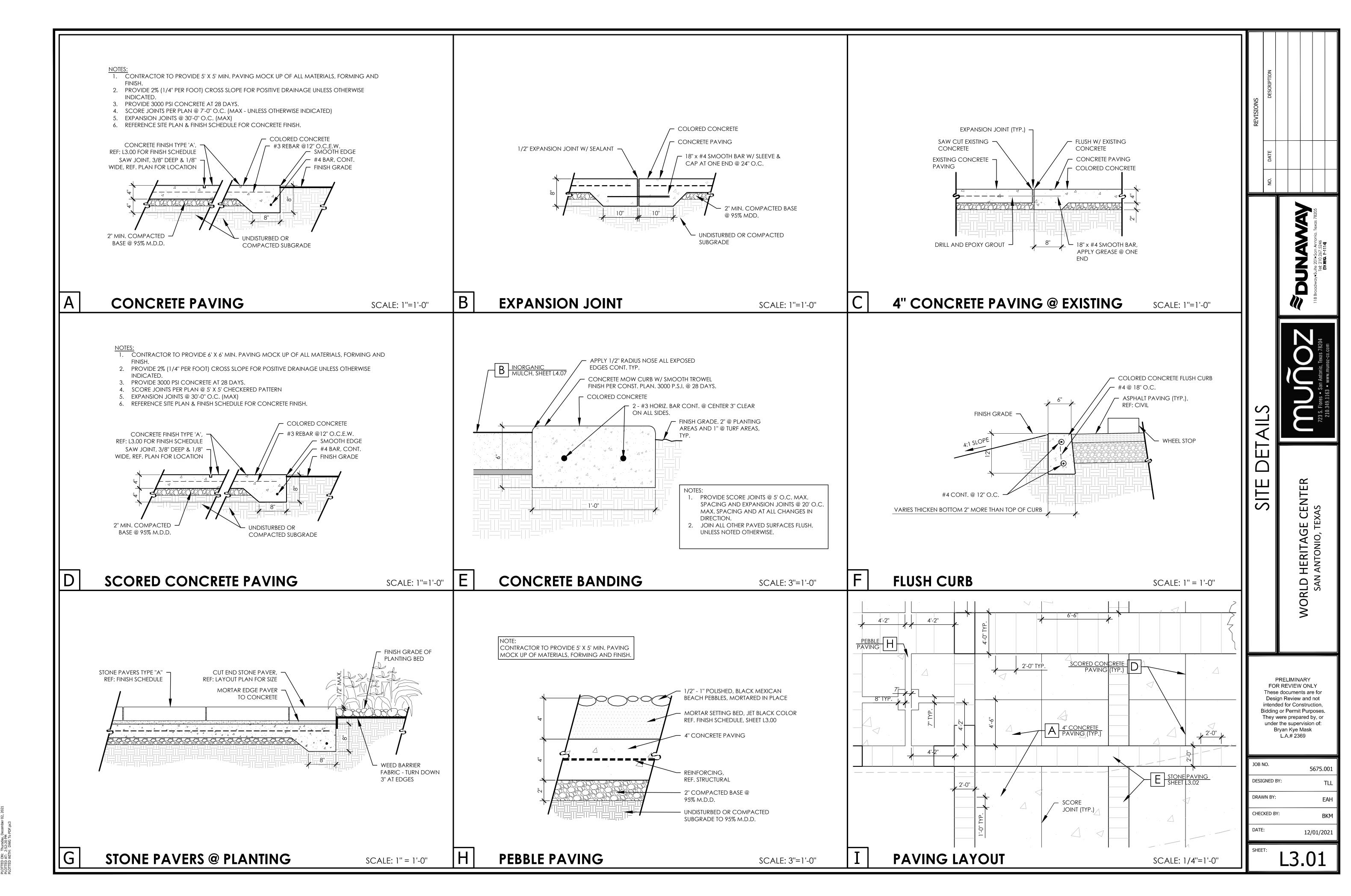


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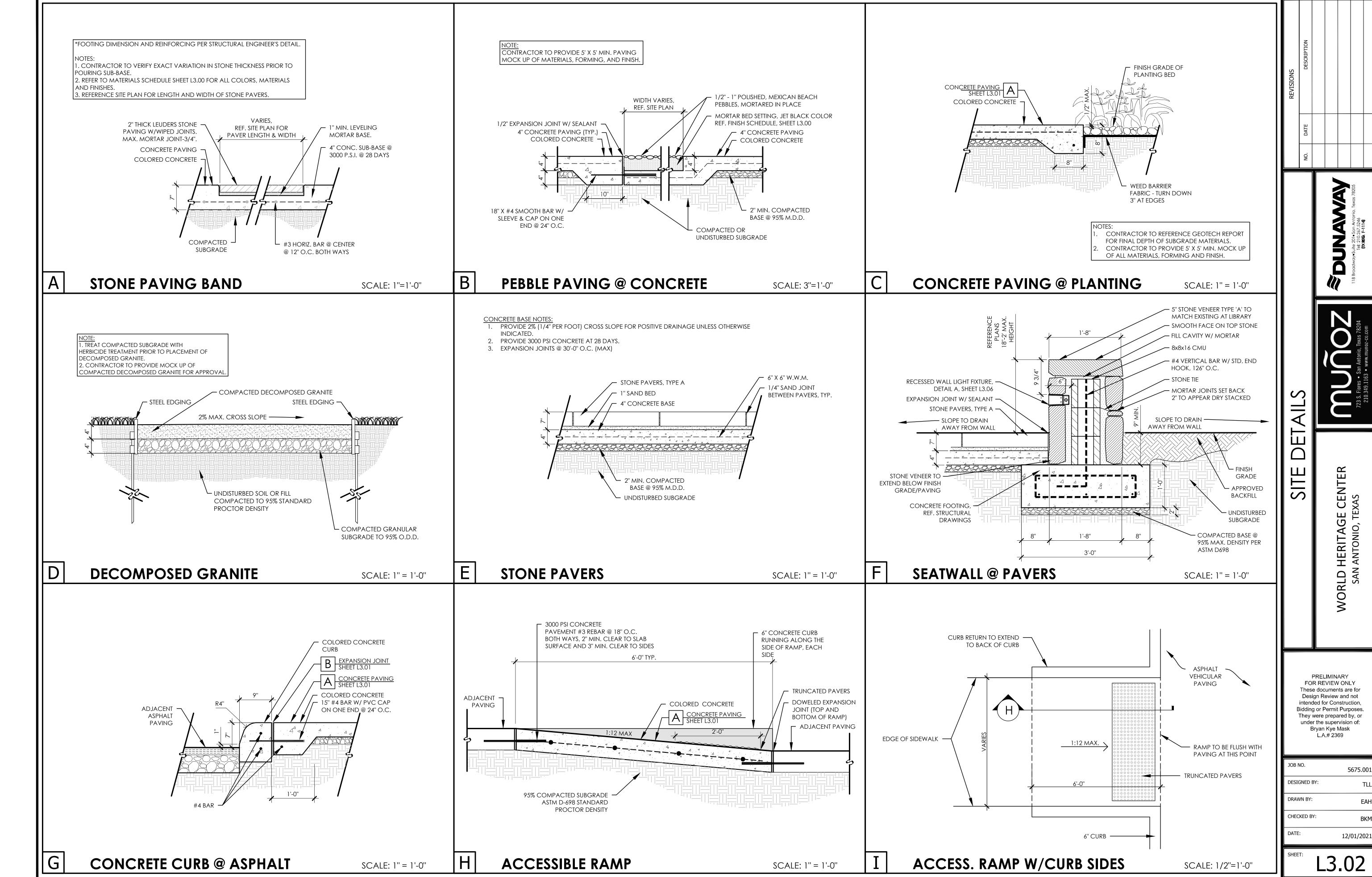
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DESIGNED BY:	TLL
DRAWN BY:	EAH
CHECKED BY:	ВКМ
DATF:	10/01/0001

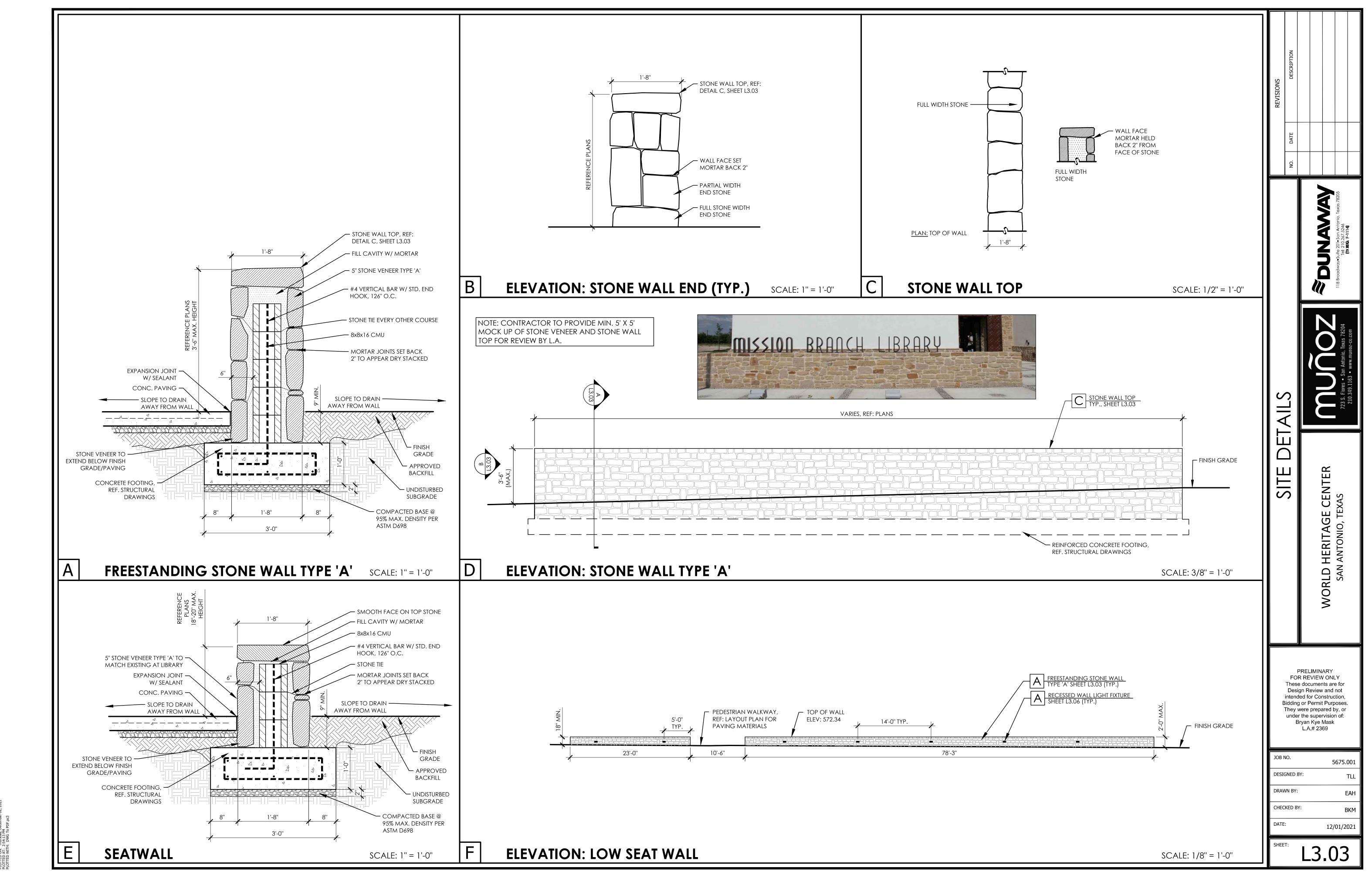
L3.00



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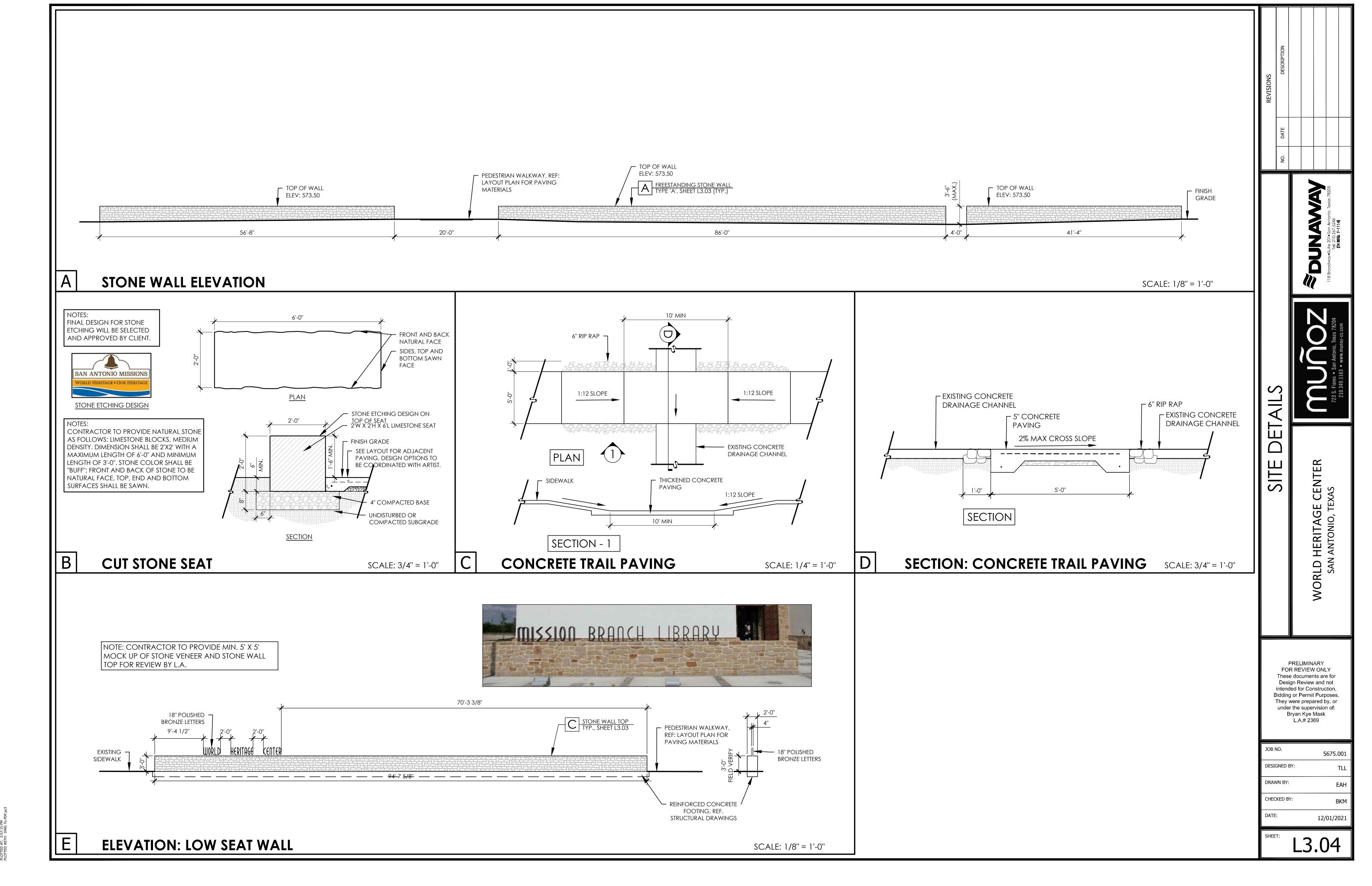
NAME: 5675.001-Site Details.dwg TTED BY: Damaris Martinez





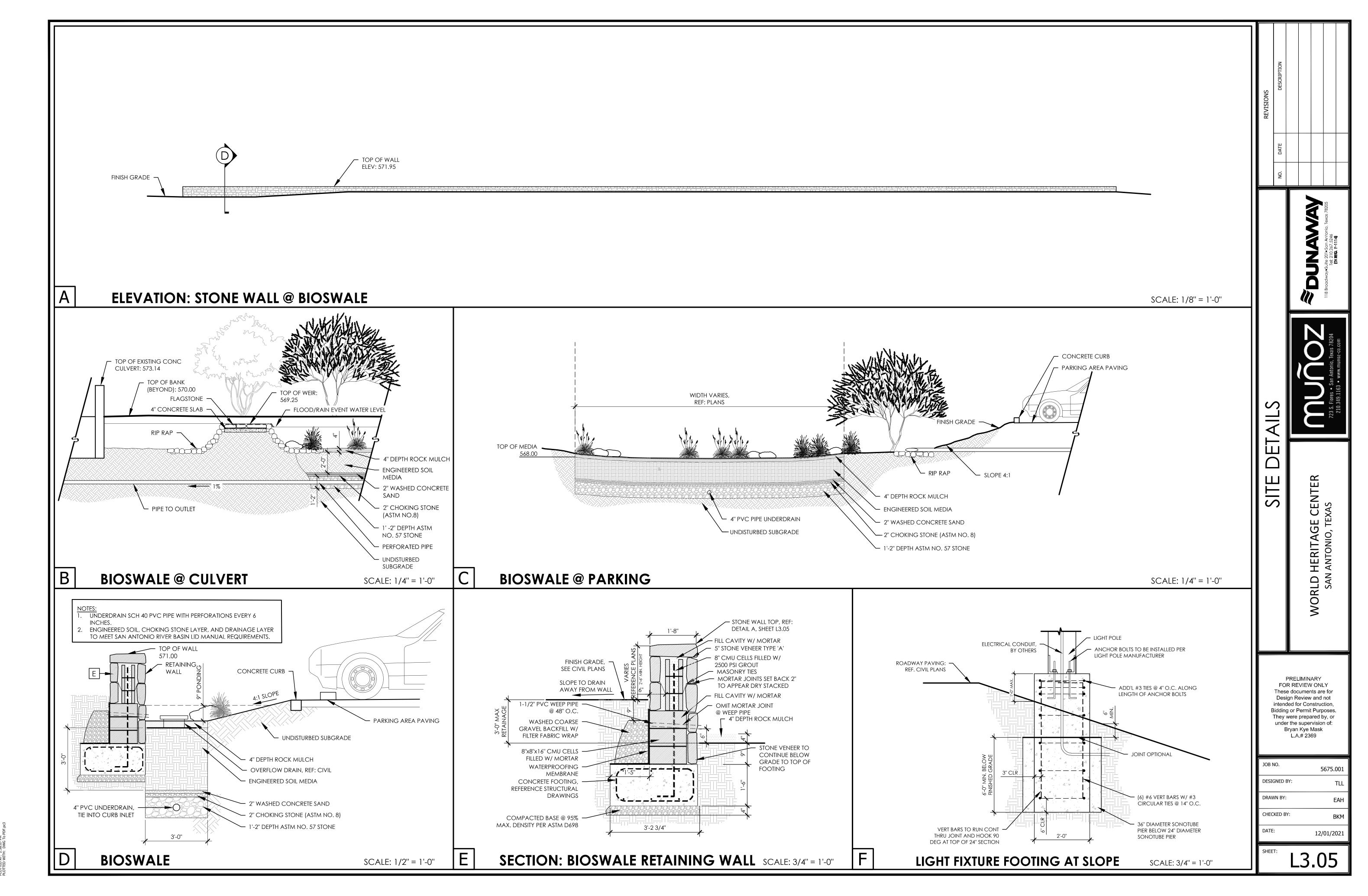
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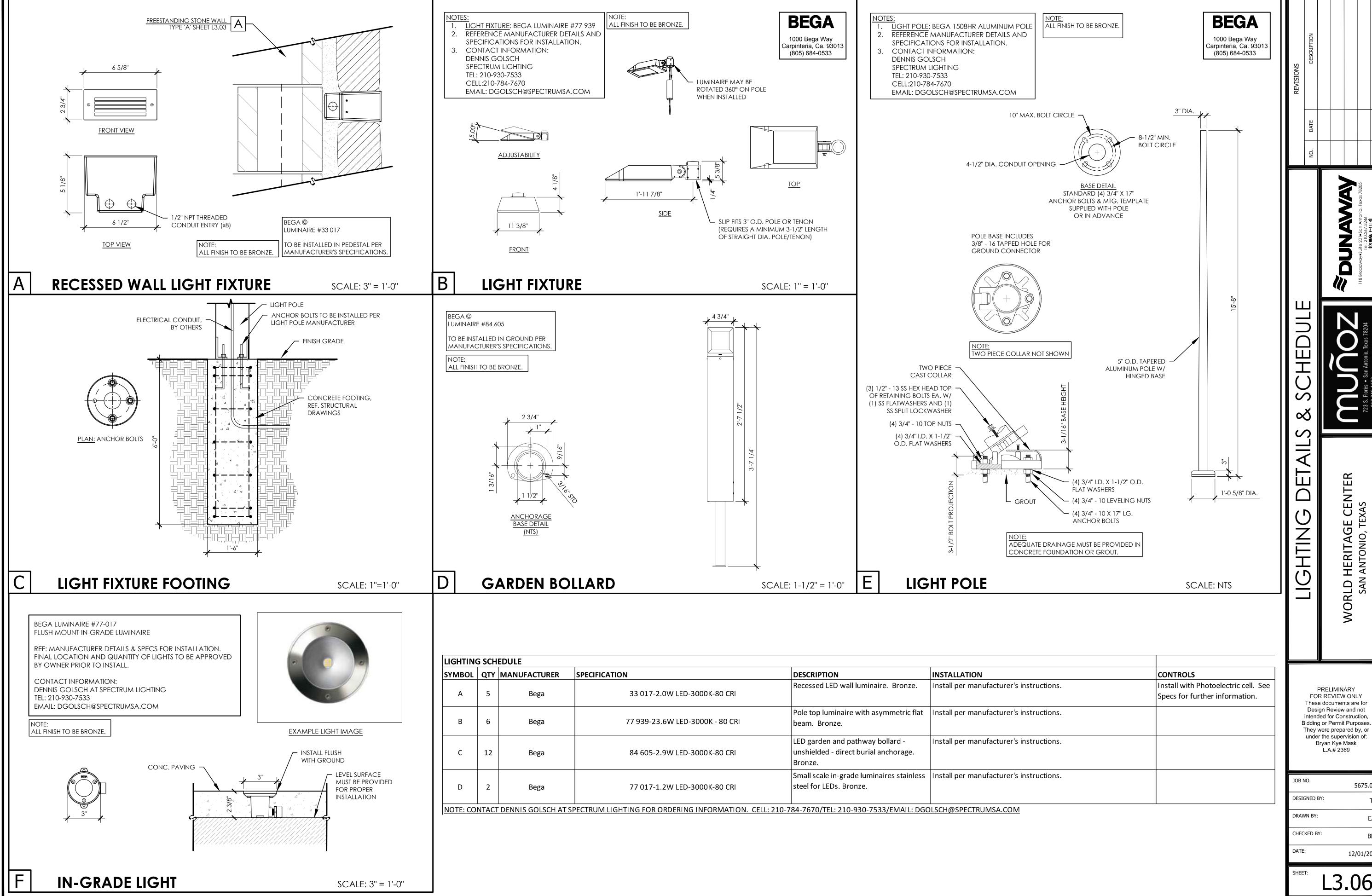
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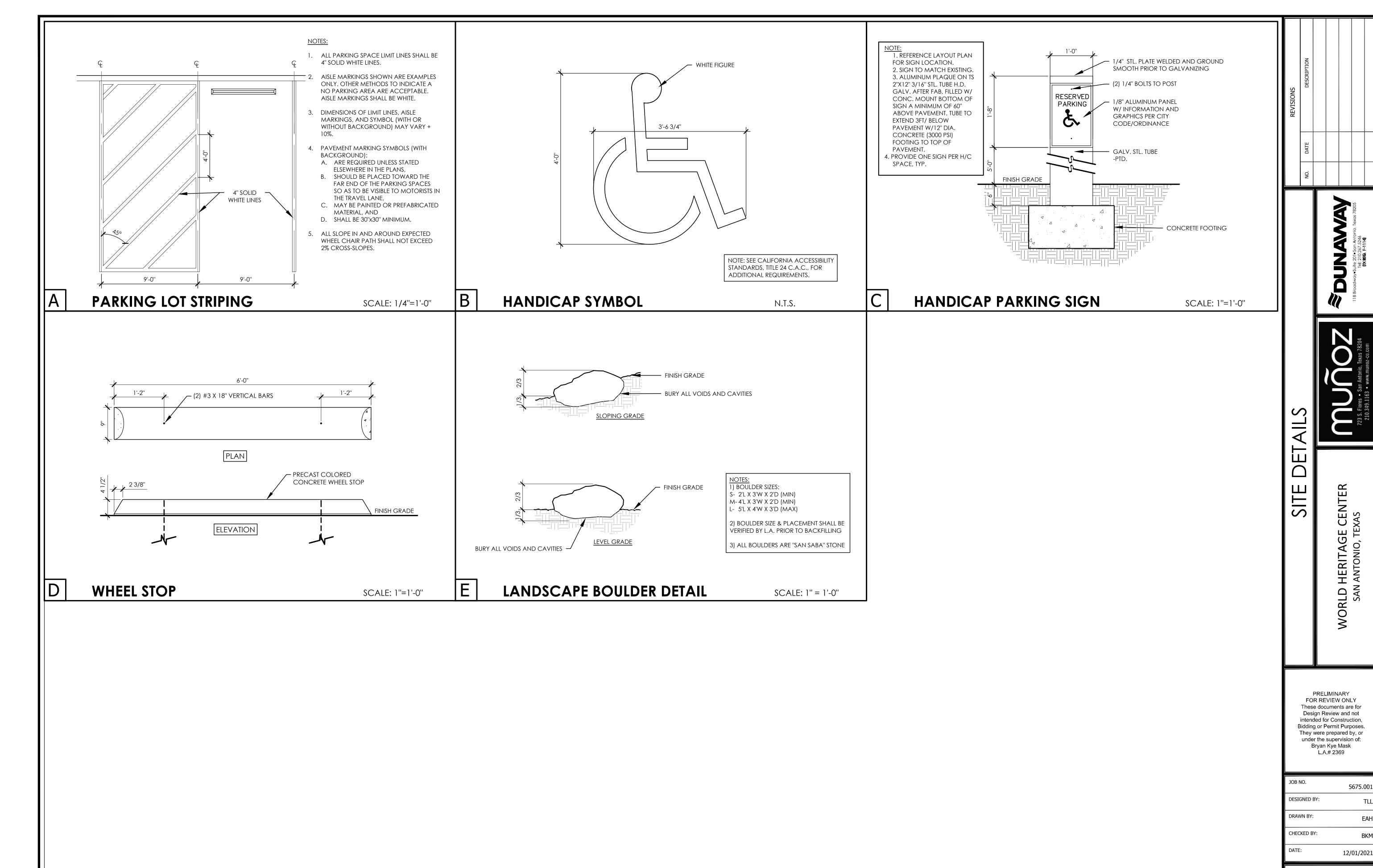


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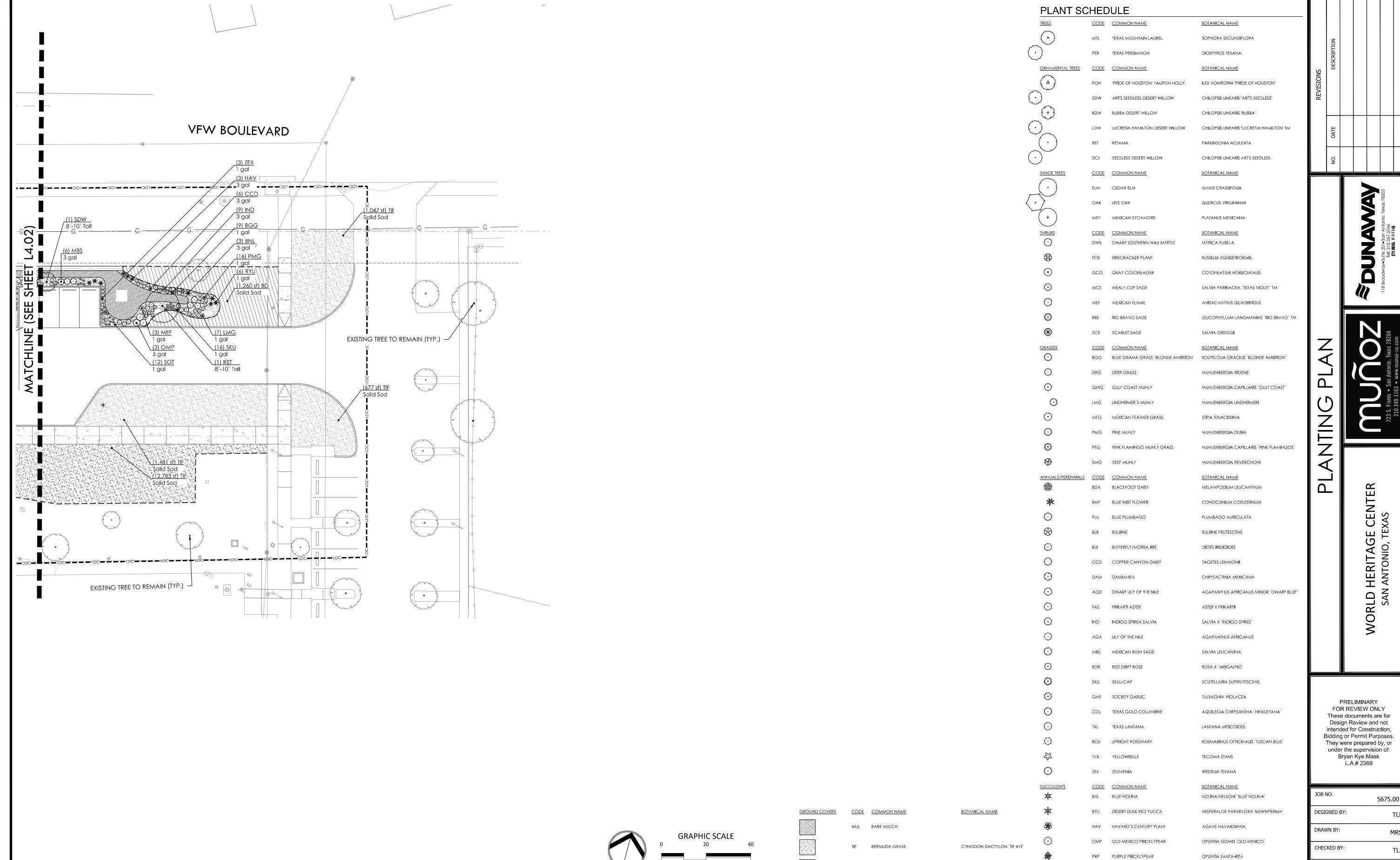
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L3.06



L3.07

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1 inch = 20'

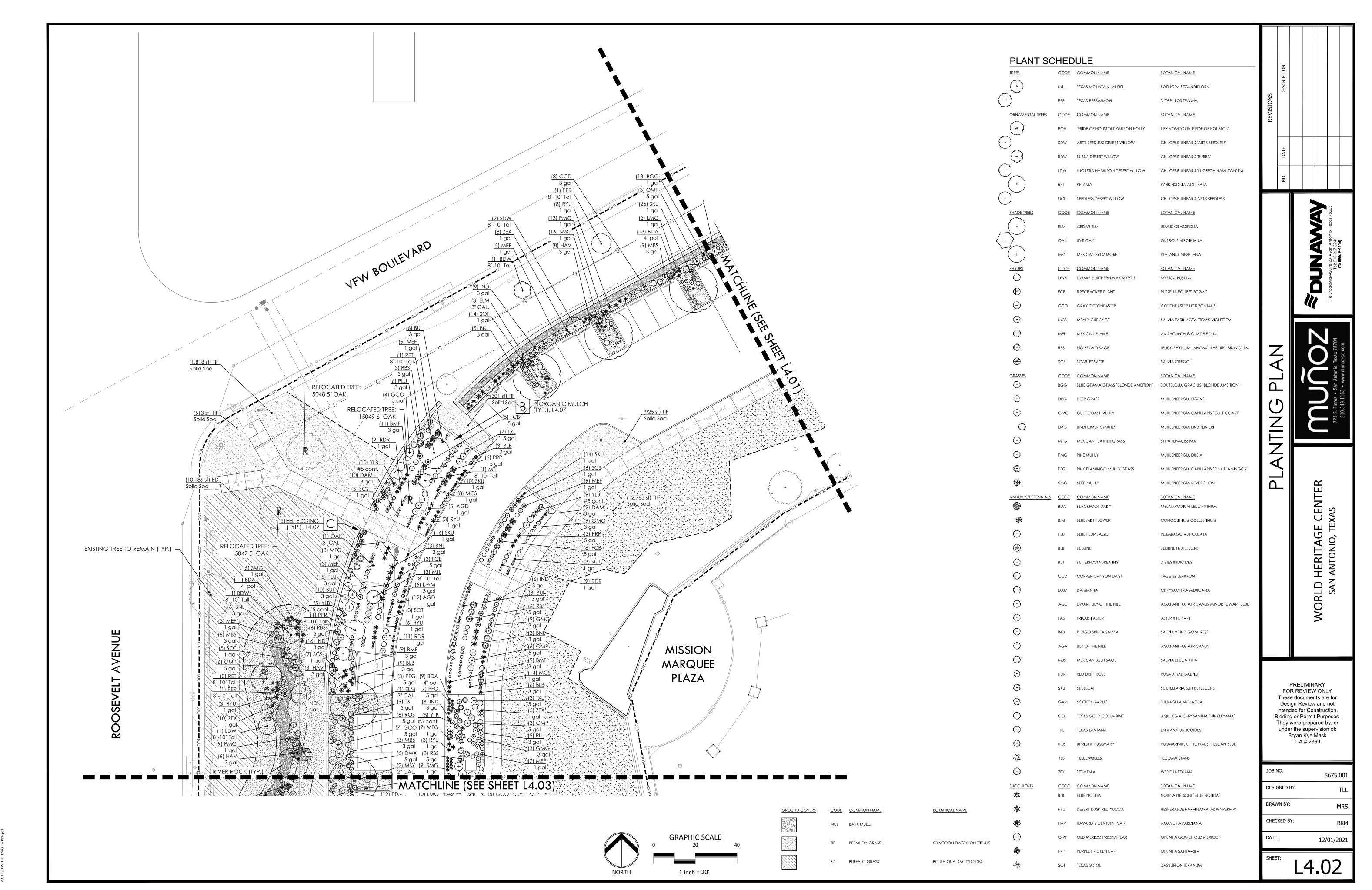
BD BUFFALO GRASS

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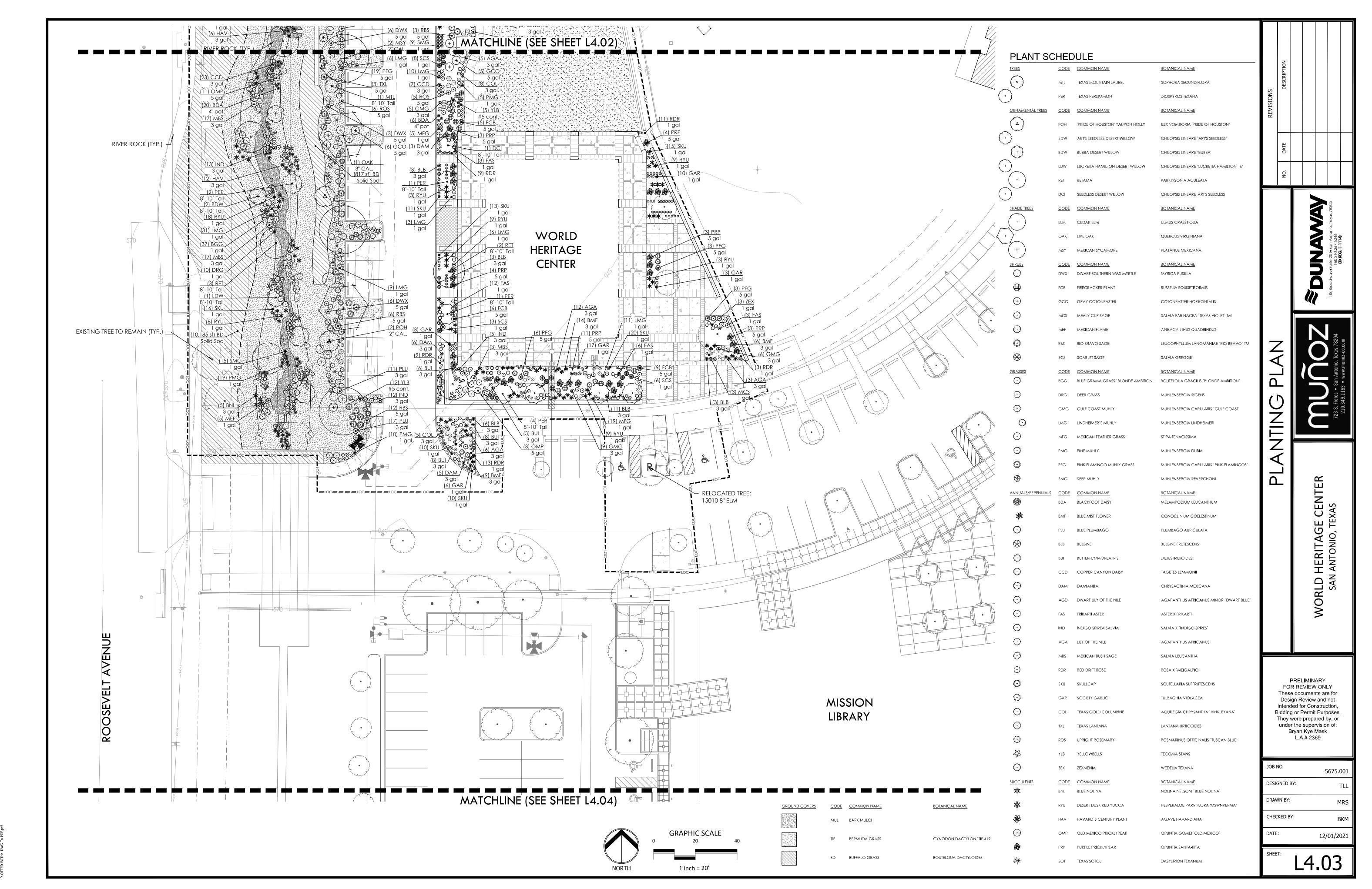
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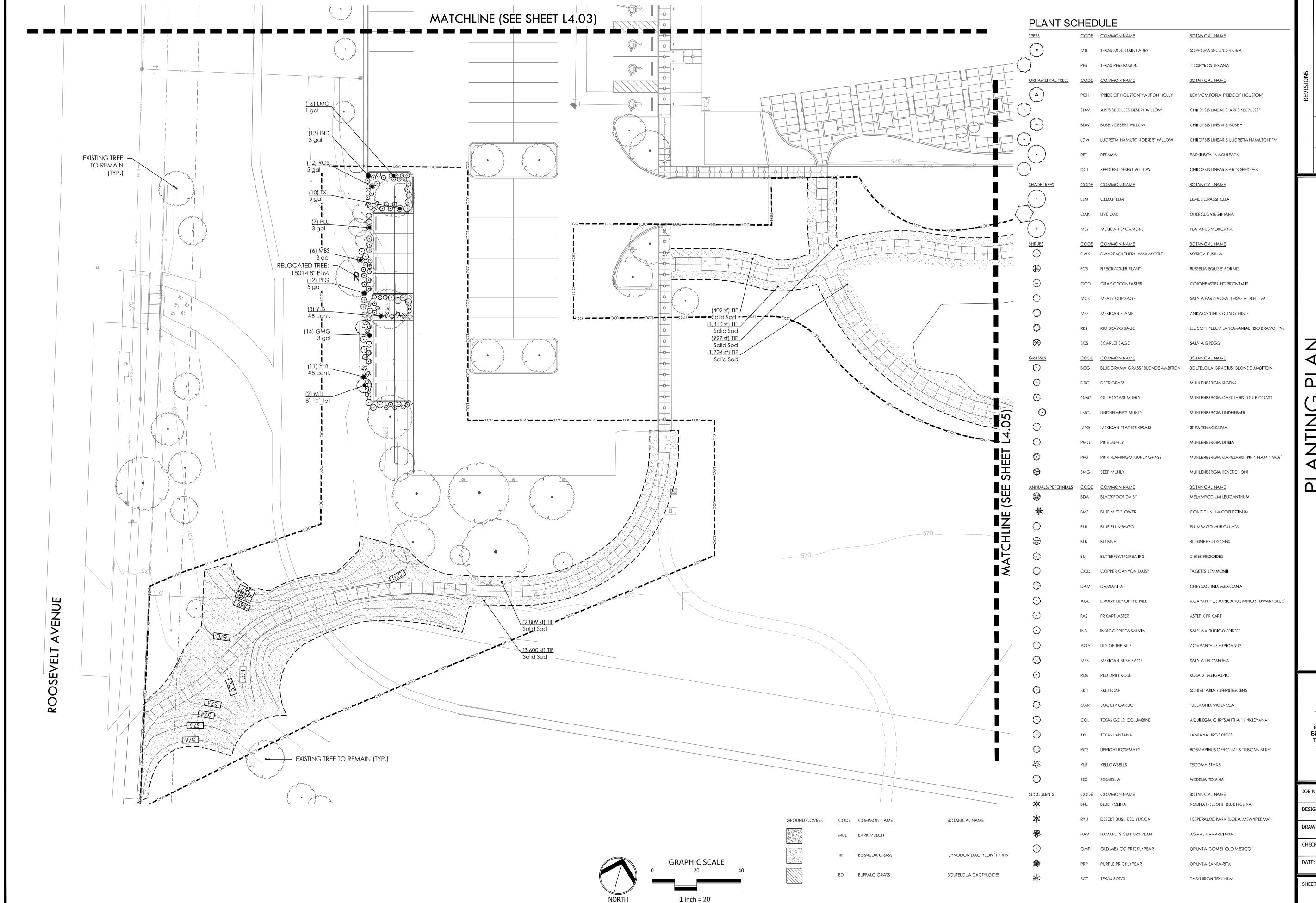


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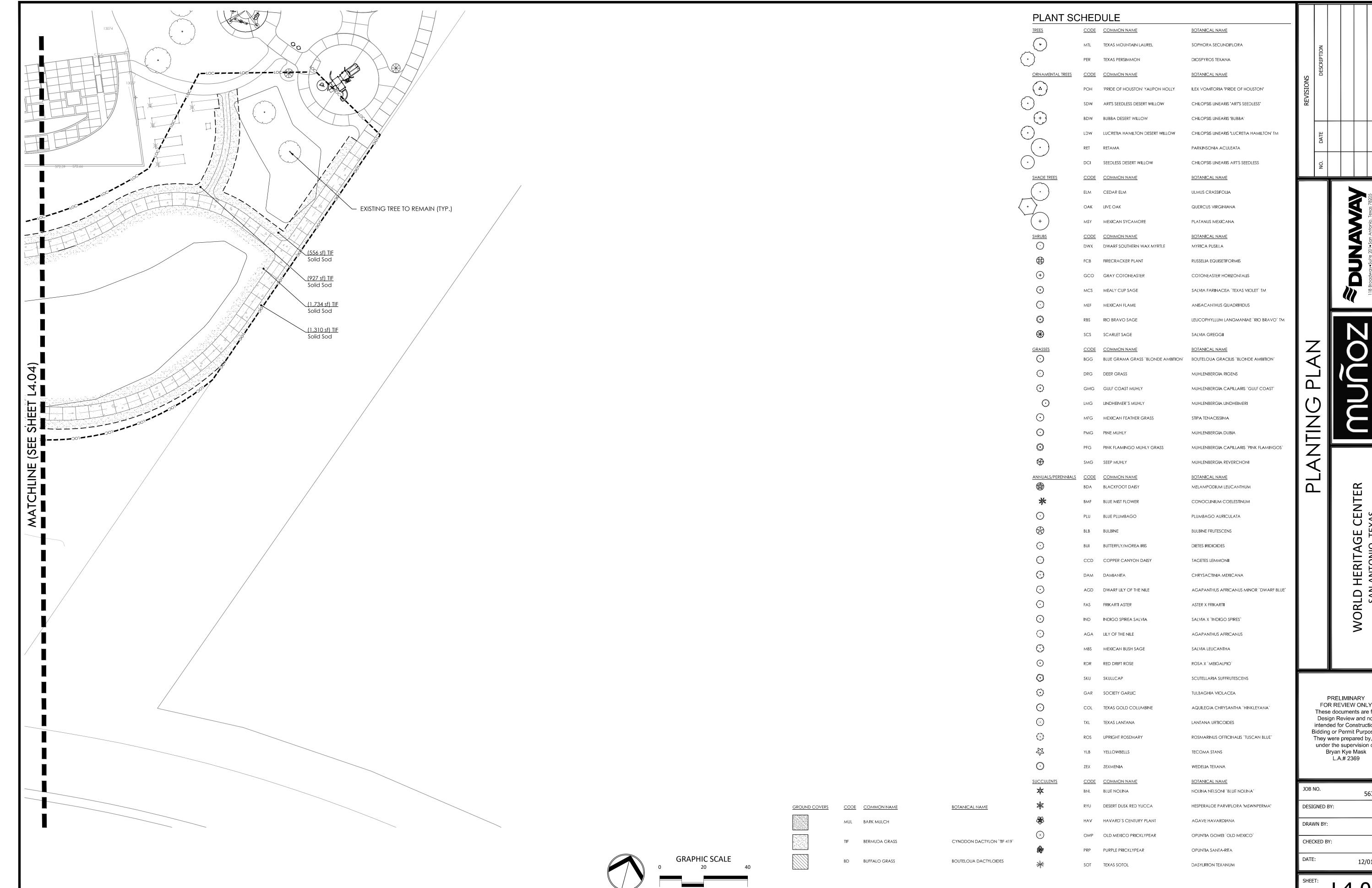
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FILENAME: 5675.001-Planting Plan.dw PLOTTED BY: Damaris Martinez PLOTTED ON: Thursday, December 0: PLOTTED AT: 4:01:06 PM PLOTTED WITH: DWG TO PDF.pc3

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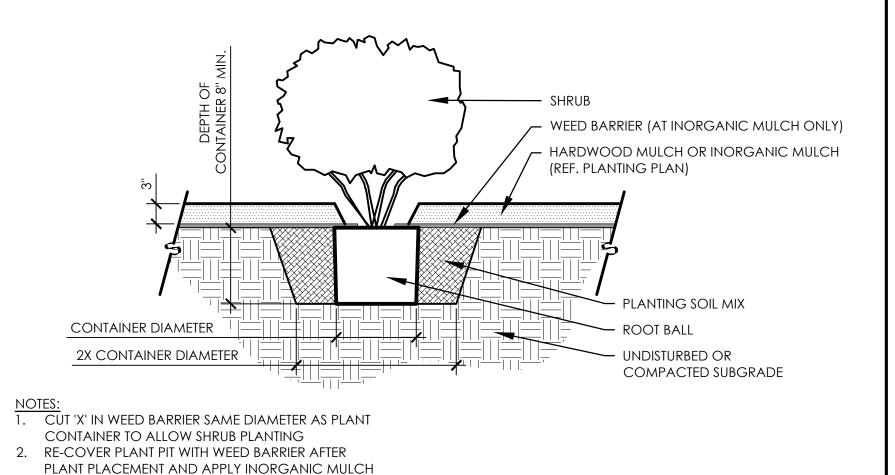


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- ALL PLANTED AREAS SHALL BE WATERED WITH AN UNDERGROUND IRRIGATION SYSTEM. THE IRRIGATION SYSTEM SHALL BE AUTOMATICALLY CONTROLLED WITH A FULLY PROGRAMMABLE ET BASED CONTROLLER WITH RAIN AND FREEZE SENSORS. THE IRRIGATION SYSTEM, AND INSTALLATION SHALL MEET ALL OF THE APPROPRIATE REQUIREMENTS OF THE LOCAL MUNICIPALITY.
- ISOLATED PLANT MATERIAL TO RECEIVE DRIP TUBING IN A RING PATTERN AROUND THE ROOT BALL. WHERE POSSIBLE, ELIMINATE DRIP TUBING FROM LARGE AREAS VOID OF PLANT MATERIAL.
- SOIL MIX FOR ALL PLANTING AREAS SHALL BE MANUFACTURED SOIL, CONSISTING OF MANUFACTURER'S BASIC TOPSOIL, BLENDED IN A MANUFACTURING FACILITY WITH SAND, STABILIZED ORGANIC SOIL AMENDMENTS, AND OTHER MATERIALS TO PRODUCE VIABLE PLANTING SOIL. MANUFACTURED SOIL SHOULD ACHIEVE PH OF 5 TO 7.5 AND MINIMUM OF 4 PERCENT ORGANIC-MATTER CONTENT, FRIABLE, AND WITH SUFFICIENT STRUCTURE TO GIVE GOOD TILL AND AERATION.
- AMEND MANUFACTURER'S BASIC SOIL WITH SULFUR (1-1/2 POUNDS PER CUBIC YARD), AND COMMERCIAL FERTILIZER (1/2 POUND PER CUBIC YARD).
- IN TREE AND SHRUB PLANTINGS, APPLY AMENDED SOIL TO MINIMUM DEPTH OF 12 INCHES. FOR TURF AREAS, TILL 2" OF AMENDED MANUFACTURER'S SOIL MIX INTO EXISTING SUBGRADE.
- A) CONTRACTOR SHALL PREPARE AND FURNISH PROPER SUBGRADE ELEVATIONS FOR USE BY THE LANDSCAPE CONTRACTOR. B) ALL TOPSOIL SHALL BE FREE OF STONES, ROOTS, CLODS, CONCRETE, BASE, CALICHE, CONSTRUCTION DEBRIS, AND ANY OTHER FOREIGN MATERIAL NOT BENEFICIAL FOR PLANT GROWTH
- ALL TREES AND SHRUB AREAS TO BE MULCHED TO A DEPTH OF 4 INCHES WITH SHREDDED TEXAS NATIVE MULCH. MAINTAIN A 1FT CLEAR AREA FROM THE BASE OF THE TREE FREE OF MULCH TO ALLOW OXYGEN EXCHANGE.
- LAY SOD WITHIN 24 HOURS OF HARVESTING. DO NOT LAY SOD IF DORMANT OR IF GROUND IS FROZEN OR MUDDY.
- LAY SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. BUTT ENDS AND SIDES OF SOD; DO NOT STRETCH OR OVERLAP. STAGGER SOD STRIPS OR PADS TO OFFSET JOINTS IN ADJACENT COURSES. AVOID DAMAGE TO SOIL OR SOD DURING INSTALLATION. TAMP AND ROLL LIGHTLY TO ENSURE CONTACT WITH SOIL, ELIMINATE AIR POCKETS, AND FORM A SMOOTH SURFACE. WORK SIFTED SOIL OR FINE SAND INTO CRACKS BETWEEN PIECES OF SOD; REMOVE EXCESS TO AVOID SMOTHERING SOD AND ADJACENT GRASS.
- A) LAY SOD ACROSS SLOPES EXCEEDING 1:3.
- B) ANCHOR SOD ON SLOPES EXCEEDING 1:6 WITH WOOD PEGS OR STEEL STAPLES SPACED AS RECOMMENDED BY SOD MANUFACTURER BUT NOT LESS THAN TWO ANCHORS PER SOD STRIP TO PREVENT SLIPPAGE.
- SATURATE SOD WITH FINE WATER SPRAY WITHIN TWO HOURS OF PLANTING. DURING FIRST WEEK AFTER PLANTING, WATER DAILY OR MORE FREQUENTLY AS NECESSARY TO MAINTAIN MOIST SOIL TO A MINIMUM DEPTH OF 1-1/2 INCHES BELOW SOD.
- GENERAL: MAINTAIN AND ESTABLISH TURF BY WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING, REPLANTING, AND PERFORMING OTHER OPERATIONS AS REQUIRED TO ESTABLISH HEALTHY, VIABLE TURF. ROLL, REGRADE, AND REPLANT BARE OR ERODED AREAS AND REMULCH TO PRODUCE A UNIFORMLY SMOOTH TURF. PROVIDE MATERIALS AND INSTALLATION THE SAME AS THOSE USED IN THE ORIGINAL INSTALLATION. MAINTENANCE PERIOD FOR TURF AREAS ONLY IS 60 DAYS PAST SUBSTANTIAL COMPLETION.
- MOW TURF AS SOON AS TOP GROWTH IS TALL ENOUGH TO CUT. REPEAT MOWING TO MAINTAIN SPECIFIED HEIGHT WITHOUT CUTTING MORE THAN ONE-THIRD OF GRASS HEIGHT. REMOVE NO MORE THAN ONE-THIRD OF GRASS-LEAF GROWTH IN INITIAL OR SUBSEQUENT MOWINGS.
- TURF INSTALLATIONS SHALL MEET THE FOLLOWING CRITERIA AS DETERMINED BY LANDSCAPE ARCHITECT: A) SATISFACTORY SODDED TURF: AT END OF MAINTENANCE PERIOD, A HEALTHY, WELL-ROOTED, EVEN-COLORED, VIABLE TURF
- HAS BEEN ESTABLISHED, FREE OF WEEDS, OPEN JOINTS, BARE AREAS, AND SURFACE IRREGULARITIES. B) SATISFACTORY SEEDED TURF: AT END OF MAINTENANCE PERIOD, A HEALTHY, UNIFORM, CLOSE STAND OF GRASS HAS BEEN ESTABLISHED, FREE OF WEEDS AND SURFACE IRREGULARITIES, WITH COVERAGE EXCEEDING 90 PERCENT OVER ANY 10 SQ. FT. AND BARE SPOTS NOT EXCEEDING 5 BY 5 INCHES.
- USE SPECIFIED MATERIALS TO REESTABLISH TURF THAT DOES NOT COMPLY WITH REQUIREMENTS, AND CONTINUE MAINTENANCE UNTIL TURF IS SATISFACTORY.
- SPECIAL WARRANTY: INSTALLER AGREES TO REPAIR OR REPLACE PLANTINGS AND ACCESSORIES THAT FAIL IN MATERIALS, WORKMANSHIP, OR GROWTH WITHIN SPECIFIED WARRANTY PERIOD.
- A) FAILURES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: A)A) DEATH AND UNSATISFACTORY GROWTH, EXCEPT FOR DEFECTS RESULTING FROM ABUSE, LACK OF ADEQUATE MAINTENANCE, OR NEGLECTED BY OWNER.
- STRUCTURAL FAILURES INCLUDING PLANTINGS FALLING OR BLOWING OVER.
- B) WARRANTY PERIODS: FROM DATE OF SUBSTANTIAL COMPLETION. B)A) TREES, SHRUBS, VINES, AND ORNAMENTAL GRASSES: 12 MONTHS.
- B)B) GROUNDCOVERS, BIENNIALS, PERENNIALS, AND OTHER PLANTS: 12 MONTHS.
- LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF ANY QUESTIONS REGARDING APPLICATION OF PROPOSED PLANT MATERIAL PRIOR TO INSTALLATION - ESPECIALLY QUESTIONS THAT MAY AFFECT OR ALTER THE WARRANTY OF SAID MATERIAL.
- 5. STAKE OR GUY TREES ONLY IF THEY ARE NOT ABLE TO STAND VERTICAL ON THEIR OWN.
- . REMOVE ALL STONES AND DEBRIS LARGER THAN 1 INCH IN ANY DIMENSION ON THE SURFACE IN AREAS WHERE TURF IS APPLIED.
- ALL QUANTITIES SHOWN ON PLANS TO BE VERIFIED BY LANDSCAPE CONTRACTOR. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL LABELED PLANT MATERIAL ON PLANS.
- ALL FINAL SHAPING AND RAKING OF THE TOPSOIL/FINISH GRADES SHALL BE REVIEWED BY OWNER OR LANDSCAPE ARCHITECT PRIOR TO APPLICATION OF PLANT MATERIAL. BERMS, IF REQUIRED SHALL BE INSTALLED IN 12 INCH LAYERS/LIFTS AND COMPACTED. EXCESSIVE SLOPES ON BERMS WHICH MAY CAUSE MAINTENANCE PROBLEMS SHALL BE REVIEWED BY THE LANDSCAPE ARCHITECT.
- VERIFY EXISTENCE OF UNDERGROUND UTILITIES PRIOR TO EXCAVATION FOR SITE WORK AND PLANTING.
- 20. CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO PROTECT EXISTING UTILITIES AT ALL TIMES.
- lpha1. Install irrigation system prior to application of topsoil or planting soil mix.
- 22. ANY EXISTING SITE IMPROVEMENT OR UTILITY REMOVED, DAMAGED, OR UNDERCUT BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE CONTRACTING OFFICER'S REPRESENTATIVE AND APPROVED BY THE RESPECTIVE UTILITY AT THE CONTRACTOR'S EXPENSE.
- 23. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL OR BETTER CONDITION ANY DAMAGES DONE TO EXISTING FENCES, CONCRETE ISLANDS, STREET PAVING, CURBS, SHRUBS, TREES, DRIVEWAYS, ETC., SCHEDULE TO REMAIN (NO SEPARATE PAY
- TREES WHICH ARE DAMAGED OR LOST DUE TO THE CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED AND REPLACED AT CONTRACTOR'S EXPENSE.
- TREES MUST BE MAINTAINED IN GOOD HEALTH THROUGHOUT THE CONSTRUCTION PROCESS. MAINTENANCE MAY INCLUDE, BUT IS NOT LIMITED TO: WATERING THE ROOT PROTECTION ZONE, WASHING FOLIAGE, FERTILIZATION, PRUNING, ADDITIONAL MULCH APPLICATIONS, AND OTHER MAINTENANCE AS NEEDED ON THE PROJECT.
- 26. ALL DISTURBED AREAS WITHIN LIMITS OF CONSTRUCTION SHALL BE HYDROMULCHED AS DESCRIBED ON PLANS.
- 27. ROOTS SHALL BE CUT WITH A ROCK SAW OR BY HAND, NOT BY AN EXCAVATOR OR OTHER ROAD CONSTRUCTION EQUIPMENT.
- 8. metal edger: col-met commercial grade steel edging 🖫 thick. Install per manufacturers recommendations.



-TREES W/ BALL DIA. UP TO 2 PIT DIA. = 2X BALL DIA. TREES W/ BALL DIA. UP TO 2'-4' PIT DIA. = 2' + BALL DIA. SET TOP OF ROOT BALL -TREES W/ BALL DIA. 4' + 3" ABOVE FINISH GRADE PIT DIA. = 1.5X BALL DIA. 4" MINIMUM MULCH REMOVE BURLAP & WIRE FROM -- PLANTING MIX, WATER IN TOP AND SIDE OF ROOT BALL TO ELIMINATE ALL VOIDS PLANTING SAUCER - FINISH GRADE 8" WIDE BY 6" TALL TOPSOIL DEPTH AS SPECIFIED PLANT PIT DEPTH ROOT BALL TO SIT ON UNDISTURBED SOIL UNDISTURBED SOIL

SHRUB PLANTING

SCALE: 1" = 1'-0"

TREE PLANTING

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

# | PLANT SCHEDULE

SOT

**GROUND COVERS** 

BARK MULCH

30,851 SF BERMUDA GRASS

12,263 SF BUFFALO GRASS

14.380 SF

CYNODON DACTYLON 'TIF 419'

BOUTELOUA DACTYLOIDES

**BOTANICAL NAME** 

TREES	QTY 8	COMMON NAME TEXAS MOUNTAIN LAUREL	BOTANICAL NAME SOPHORA SECUNDIFLORA	<u>CALIPER</u> 8` 10` TALL	CONT.	HEIGHT 8`-10`	SPREAD 5`- 6`	<u>REMARKS</u> 15`-20` EVERGREEN, PURPLE BLOOMS SPRING, 10` SPREAD
MTL PER	12	TEXAS PERSIMMON	DIOSPYROS TEXANA	8`-10` TALL		8`-10`	5 - 6 FULL	20`-25` EVRGRN, GRAY PEELING BARK, SUN/P.SU, 15`-20` SPREAD
ORNAMENTAL TREES	QTY	COMMON NAME	BOTANICAL NAME	CALIPER	CONT.	HEIGHT	<u>SPREAD</u>	REMARKS
POH SDW	2	'PRIDE OF HOUSTON' YAUPON HOLLY ART'S SEEDLESS DESERT WILLOW	ILEX VOMITORIA 'PRIDE OF HOUSTON' CHILOPSIS LINEARIS 'ART'S SEEDLESS'	2" CAL. 8`-10` TALL		8`-10` 8`-10`	FULL	25` DECID. LARGE, PINK-ROSE BLOOMS SP/SU/FA. SEEDLESS, THORNLESS, HEAT TOLERANT, WATER-EFFICIENT.
BDW	4	BUBBA DESERT WILLOW	CHILOPSIS LINEARIS 'BUBBA'	8`-10` TALL		8` - 10`	FULL	30` DECID. FAST-GROWING, UPRIGHT, BURGUNDY, FRAGRANT BLOOMS SP/SU
LDW	2	LUCRETIA HAMILTON DESERT WILLOW	CHILOPSIS LINEARIS 'LUCRETIA HAMILTON' TM	8`-10` TALL		8` - 10`	FULL	18` DECID. NARROW, GREEN LEAVES. FRAGRANT, TRUMPET-SHAPED BLOOMS SU. WEEPING APPEARANCE.
RET	9	RETAMA	PARKINSONIA ACULEATA	8`-10` TALL		8`-10`	FULL	20`-25` DECID., YELLOW FLOWERS, SUN/SHADE, 15`-20` SPREAD
DCI	1	SEEDLESS DESERT WILLOW	CHILOPSIS LINEARIS ART'S SEEDLESS	8`-10` TALL		8`-10`	FULL	30` DECID. FAST-GROWING, UPRIGHT. BURGUNDY, FRAGRANT BLOOMS SP/SU
SHADE TREES	QTY	COMMON NAME	BOTANICAL NAME	CALIPER	CONT.	HEIGHT () O)	<u>SPREAD</u>	REMARKS
ELM	4	CEDAR ELM	ULMUS CRASSIFOLIA	3" CAL.		6`-8`	3	25`-30` DECIDUOUS, ADAPTABLE TO HEAVY CLAY. 80` SPREAD
OAK MSY	3 3	LIVE OAK MEXICAN SYCAMORE	QUERCUS VIRGINIANA PLATANUS MEXICANA	3" CAL. 2" CAL.		10` 8`-10`	3` 3`- 4`	35`-40` SEMI-EVRGRN, VERY ADAPTABLE, 60`-100` SPREAD 30`-35` DECID., LRG. LVS., INSECT/DISEASE RESIST., 30` SPREAD
	Ü							
SHRUBS	QTY 01	COMMON NAME	BOTANICAL NAME	SIZE	CONT.	HEIGHT	SPACING	REMARKS
DWX	21	DWARF SOUTHERN WAX MYRTLE	MYRICA PUSILLA	5 GAL	15"- 18" 12"-14"	10"-12"	30" OC. 30" OC.	
FCB GCO	31 27	FIRECRACKER PLANT GRAY COTONEASTER	RUSSELIA EQUISETIFORMIS COTONEASTER HORIZONTALIS	5 GAL 5 GAL	12 - 14 24" - 36"	14" FULL	48" OC.	
MCS	28	MEALY CUP SAGE	SALVIA FARINACEA `TEXAS VIOLET` TM	1 GAL	12"-18"	10"-12"	40 O.C. 24" O.C.	
MEF	40	MEXICAN FLAME	ANISACANTHUS QUADRIFIDUS	1 GAL	16"-18"	24"	24" OC.	
RBS	43	RIO BRAVO SAGE	LEUCOPHYLLUM LANGMANIAE `RIO BRAVO` TM	5 GAL	12"-14"	10"-12"	36" OC	
SCS	35	SCARLET SAGE	SALVIA GREGGII	1 GAL	4''	FULL	12" OC.	
GRASSES	QTY	COMMON NAME	BOTANICAL NAME	SIZE	CONT.	HEIGHT	SPACING	REMARKS
BGG	66	BLUE GRAMA GRASS 'BLONDE AMBITION'	BOUTELOUA GRACILIS 'BLONDE AMBITION'	1 GAL	8"-10"	FULL	18" OC.	
DRG	29	DEER GRASS	MUHLENBERGIA RIGENS	1 GAL	12"-15"	FULL	24" OC.	
GMG	46	GULF COAST MUHLY	MUHLENBERGIA CAPILLARIS `GULF COAST`	3 GAL	20"-24"	FULL	30" OC.	
LMG	110	LINDHEIMER`S MUHLY	MUHLENBERGIA LINDHEIMERI	1 GAL	12"-15"	FULL	18" OC.	
MFG	48	MEXICAN FEATHER GRASS	STIPA TENACISSIMA	1 GAL	8"-10"	FULL	18" OC.	
PMG	72	PINE MUHLY	MUHLENBERGIA DUBIA	1 GAL	10''-12''	FULL	18" OC.	
PFG	56	PINK FLAMINGO MUHLY GRASS	MUHLENBERGIA CAPILLARIS `PINK FLAMINGOS`	5 GAL	10" 15"	FILL	10" 00	
SMG	48	SEEP MUHLY	MUHLENBERGIA REVERCHONI	1 GAL	12"-15"	FULL	18" OC.	
ANNUALS/PERENNIALS	QTY 50	COMMON NAME	BOTANICAL NAME	SIZE	CONT.	HEIGHT	SPACING	REMARKS
BDA BMF	59 50	BLACKFOOT DAISY BLUE MIST FLOWER	MELAMPODIUM LEUCANTHUM CONOCLINIUM COELESTINUM	4" POT 3 GAL	4" - 6" 6" - 8"	FULL	9" OC. 12" OC.	18", STAR SHAPED YELLOW BLOOMS SUMMER, SUN
PLU	58 55	BLUE PLUMBAGO	PLUMBAGO AURICULATA	3 GAL	6 - 6 18"	FULL FULL	12 OC. 30" OC.	
BLB	47	BULBINE	BULBINE FRUTESCENS	3 GAL	6" - 8"	FULL	18" OC.	
BUI	42	BUTTERFLY/MOREA IRIS	DIETES IRIDIOIDES	3 GAL	10"	FULL	18" OC.	2` - 3` IRIS LIKE IVS, EVERGREEN, WH/YEL/PUR, SP/SU
CCD	61	COPPER CANYON DAISY	TAGETES LEMMONII	3 GAL	10"	FULL	18" OC.	18" - 24" DECID. YELLOW BLOOM SP., SUN-PEPPER/LEMON SCENT
DAM	39	DAMIANITA	CHRYSACTINIA MEXICANA	3 GAL	6" - 8"	8''-10''	18" OC.	1`-2` EVERGREEN, YELLOW BLOOMS SP/SU/FALL, SUN
AGD	1 <i>7</i>	DWARF LILY OF THE NILE	AGAPANTHUS AFRICANUS MINOR 'DWARF BLUE'	1 GAL	8"-10"	FULL	15" OC.	8" - 12" EVERGREEN STRAP. LVS., BLUE BLUME SP/SU
FAS	27	FRIKARTI ASTER	ASTER X FRIKARTII	1 GAL	12"	FULL	18" OC.	
IND	94	INDIGO SPIREA SALVIA	SALVIA X 'INDIGO SPIRES'	3 GAL	14"-16"	12"-14"	24" OC.	5` TALL, BLUE BLOOMS SP/SU, SUN
AGA	26	LILY OF THE NILE	AGAPANTHUS AFRICANUS	3 GAL	12"-15"	FULL	18" OC.	2` X 3` EVERGREEN STRAP. LVS., BLUE BLOOM SP/SU
MBS RDR	53 74	MEXICAN BUSH SAGE RED DRIFT ROSE	SALVIA LEUCANTHA ROSA X `MEIGALPIO`	3 GAL 1 GAL	14"-16" 10"	12"-14" FULL	36" OC 18" OC.	
SKU	190	SKULLCAP	SCUTELLARIA SUFFRUTESCENS	1 GAL	6"	FULL	18" OC.	
GAR	42	SOCIETY GARLIC	TULBAGHIA VIOLACEA	1 GAL	12"	FULL	18" OC.	PURPLE BLOOMS, SP/SU
COL	18	TEXAS GOLD COLUMBINE	AQUILEGIA CHRYSANTHA `HINKLEYANA`	3 GAL	10"	FULL	18" OC.	18"-24" DECID. YELLOW BLOOM SP., SHADE
TXL	41	TEXAS LANTANA	LANTANA URTICOIDES	5 GAL	20"-24"	FULL	30" OC.	18"-24", YEL/RED BLOOMS SP/SU/FA, NATIVE
ROS	32	UPRIGHT ROSEMARY	ROSMARINUS OFFICINALIS 'TUSCAN BLUE'	5 GAL	16"-18"	14"-16"	36" OC	
YLB	63	YELLOWBELLS	TECOMA STANS	#5 CONT.	18"-36"	FULL	3` OC.	
ZEX	39	ZEXMENIA	WEDELIA TEXANA	1 GAL	8"	8"	18" OC.	
<u>SUCCULENTS</u>	QTY	COMMON NAME	BOTANICAL NAME	SIZE	CONT.	<u>HEIGHT</u>	<u>SPACING</u>	<u>REMARKS</u>
BNL RYU	36	BLUE NOLINA	NOLINA NELSONI `BLUE NOLINA`	3 GAL	0" 10"	EIIII	24" 00	
HAV	80 38	DESERT DUSK RED YUCCA HAVARD`S CENTURY PLANT	HESPERALOE PARVIFLORA 'MSWNPERMA' AGAVE HAVARDIANA	1 GAL 3 GAL	8"-10" 10"-12"	FULL FULL	24" OC. 18" OC.	
OMP	35	OLD MEXICO PRICKLYPEAR	OPUNTIA GOMEI `OLD MEXICO`	5 GAL	10-12	I ULL	10 00.	
PRP	39	PURPLE PRICKLYPEAR	OPUNTIA SANTA-RITA	5 GAL	14"-16"	18"-24"	48" OC.	
SOT	37	TEXAS SOTOL	DASYLIRION TEXANUM	1 GAL	10"-12"	12"-14"	24" OC.	

<u>HEIGHT</u> <u>SPREAD</u>

SIZE 3" DEPTH

SOLID SOD

SOLID SOD

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JOB NO.	5675.001
DESIGNED BY:	TLL
DRAWN BY:	MRS
CHECKED BY:	ВКМ
DATE:	12/01/2021

# CITY OF SAN ANTONIO LANDSCAPE ORDINANCE CHARTS

# Mandatory Criteria

19,298 SF		
4824.5 SF	Minimum required	20 Points
6754.3 SF	Additional	5 Points
9649 SF	Additional	15 Points
4824.5		
3450		
8012.5		
11462.5		
35		
	4824.5 SF 6754.3 SF 9649 SF 4824.5 3450 8012.5 11462.5	3450 8012.5 11462.5

QTY	Species	ShadeCredit	Total
2	Live Oak	656.25	1312.5
4	Cedar Elm	656.25	2625
3	Mexican Sycamore	900	2700
2	Yaupon Holly	137.5	275
4	Mountain Laurel	137.5	550
3	Desert Willow	137.5	412.5
1	_Texas Prisimmon	137.5	137.5
		Total SF Shade	8012.5

## Tree Preservation Credit Table SY=Street Yard

Full Credit in SY	<u>QTY</u>	<u>Total</u> <u>H</u>	lalf Credit in SY	<u>QTY</u>	<u>Total</u>	Half Credit out side SY	<u>QTY</u>	<u>Total</u>
3	0	О	1.5		0	1.5	0	0
4	3	12	2		0	2	0	0
6	0	О	3		0	3	0	0
8	0	<u>0</u>	4		<u>0</u>	4	0	<u>o</u>
	Subtotal	12		Subtotal	0		Subtotal	0
Total Preservat	ion Points	12						
	3 4 6 8	3 0 4 3 6 0 8 0	3 0 0 4 3 12 6 0 0 8 0 <u>0</u> Subtotal 12	3 0 0 1.5 4 3 12 2 6 0 0 3 8 0 <u>0</u> 4 Subtotal 12	3 0 0 1.5 4 3 12 2 6 0 0 3 8 0 <u>0</u> 4 Subtotal 12 Subtotal	3 0 0 1.5 0 4 3 12 2 0 6 0 0 3 0 8 0 0 4 0 Subtotal 12 Subtotal 0	3       0       0       1.5       0       1.5         4       3       12       2       0       2         6       0       0       3       0       3         8       0       0       4       0       4         Subtotal       12       Subtotal       0       0	3         0         0         1.5         0         1.5         0           4         3         12         2         0         2         0           6         0         0         3         0         3         0           8         0         0         4         0         4         0           Subtotal         12         Subtotal         0         Subtotal

### **Elective Criteria**

LICCLIVE CITE	Cita		
Landscape Points	<u>PTS</u>		
Existing Trees	12		
Parking Lot Shading	35		
Screening of Surface	25		
Street Trees		0	
<b>Understory Preservat</b>	ion	0	
	Total Points	72	

NO. DATE DESCRIPTION

RIVER ROCK -

SCALE: 1"=1'-0"

FILTER FABRIC





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They were prepared by, or
under the supervision of:
Bryan Kye Mask
L.A.# 2369

JOB NO.	5675.001
DESIGNED BY:	TLL
DRAWN BY:	MRS
CHECKED BY:	ВКМ
DATE:	12/01/2021

1407

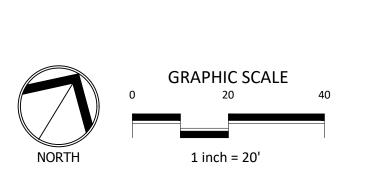
-liENAME: 5475.001-Planting Details.dwg -LOTIED BY: Damaris Martinez -LOTIED ON: Thusday, December 02, 2021 -LOTIED AH: 4365.03PM VFW BOULEVARD

LIMIT OF WORK

EXISTING R.O.W. —

EXISTING TREE TO — REMAIN (TYP.)







IRRIGATIO	ON SCHEDULE
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
T	ROTARY: HUNTER MP CORNER PROS-04-PRS40-CV TURF ROTATOR, 4" (10.16CM) POP-UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE. T=TURQUOISE ADJ ARC 45-105 ON PRS40 BODY.
LST RST SST	ROTARY: HUNTER MP STRIP PROS-04-PRS40-CV TURF ROTATOR, 4" (10.16 CM) POP-UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE ON PRS40 BODY. LST=IVORY LEFT STRIP, SST=BROWN SIDE STRIP, RST=COPPER RIGHT STRIP.
₩ ₲ 🕏	ROTARY: HUNTER MP1000 PROS-04-PRS40-CV TURF ROTATOR, 4" (10.16 CM) POP-UP WITH CHECK VALVE, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE ON PRS40 BODY. M=MAROON ADJ ARC 90 TO 210, L=LIGHT BLUE 210 TO 270 ARC, O=OLIVE 360 ARC.
ৈ©®	ROTARY: HUNTER MP2000 PROS-04-PRS40-CV TURF ROTATOR, 4" (10.16 CM) POP-UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE ON PRS40 BODY. K=BLACK ADJ ARC 90-210, G=GREEN ADJ ARC 210-270, R=RED 360 ARC.
BYA	ROTARY: HUNTER MP3000 PROS-04-PRS40-CV TURF ROTATOR, 4" (10.16 CM) POP-UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE ON PRS40 BODY. B=BLUE ADJ ARC 90-210, Y=YELLOW ADJ ARC 210-270, A=GRAY 360 ARC.
(B)	ROTARY: HUNTER MP3500 PROS-04-PRS40-CV TURF ROTATOR, 4.0" POP-UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. LB=LIGHT BROWN ADJUSTABLE ARC, 90-210.
25 50 10 20	BUBBLER: HUNTER PROS-06-CV-PCN 10 FLOOD BUBBLER, ON FIXED RISER, 6.0" POP-UP, DRAIN CHECK VALVE
<u>SYMBOL</u>	MANUFACTURER/MODEL/DESCRIPTION
	DRIP VALVE: HUNTER ICZ-101-40 DRIP CONTROL ZONE KIT. 1" ICV GLOBE VALVE WITH 1" HY100 FILTER SYSTEM. PRESSURE REGULATION: 40PSI. FLOW RANGE: 2 GPM TO 20 GPM. 150 MESH STAINLESS STEEL SCREEN.
<b>H</b>	DRIP VALVE: HUNTER ICZ-151-40 DRIP CONTROL ZONE KIT. 1-1/2" ICV GLOBE VALVE WITH 1" HY100 FILTER SYSTEM. PRESSURE REGULATION: 40PSI. FLOW RANGE: 20 GPM TO 60 GPM. 120 MESH STAINLESS STEEL SCREEN. 1-1/2" INLET X DUAL 1" OUTLETS. INSTALL DEODER FOR TWO WIRE INSTALLATION, PER MANUFACTURER'S RECOMENDATIONS.
	DRIP INDICATOR: HUNTER ECO-ID ECO-ID: 1/2" FPT CONNECTION WITH 12-60 PSI OPERATING PRESSURE. SPECIFY WITH HUNTER SJ SWING JOINT. INSTALL ONE INDICATOR FOR EACH DRIP VALVE.
	AREA TO RECEIVE DRIPLINE DRIP AREA: HUNTER HDL-04-12-CV HDL-04-12-CV: HUNTER DRIPLINE W/ 0.4 GPH EMITTERS AT 12" O.C. CHECK VALVE, DARK BROWN TUBING WITH TAN STRIPING. DRIPLINE LATERALS SPACED AT 12" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. INSTALL WITH HUNTER PLD BARBED OR PLD-LOC FITTINGS.
<u>SYMBOL</u>	MANUFACTURER/MODEL/DESCRIPTION
	REMOTE CONTROL VALVE: HUNTER ICV-G 1", 1-1/2", 2", AND 3" PLASTIC ELECTRIC REMOTE CONTROL VALVES, GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE.
×	SHUT OFF VALVE PVC SCHEULE 40 BALL VALVE, SLIP X SLIP
	MASTER VALVE: HUNTER ICV-G 1-1/2" 1", 1-1/2", 2", AND 3" PLASTIC ELECTRIC MASTER VALVE, GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE.
BF	BACKFLOW: FEBCO 860, RPZ 1-1/2" REDUCED PRESSURE BACKFLOW PREVENTER
C	CONTROLLER: HUNTER HCC-800-M 8 STATION CONTROLLER WITH EZDM TWO-WIRE DECODER, WI-FI ENABLED, FULL-FUNCTIONING CONTROLLER WITH TOUCHSCREEN, METAL CABINET, MOUNTED INDOORS PER MANUFACTURER'S RECOMMENDATIONS.
<b>€/</b>   <b>F</b>	RAIN/FREEZE SENSOR: HUNTER WR-CLIK RAIN SENSOR, INSTALL WITHIN 1000 FT OF CONTROLLER, IN LINE OF SIGHT. 22-28 VAC/VDC 100 MA POWER FROM TIMER TRANSFORMER. MOUNT AS NOTED.
M	WATER METER 1-1/2" ASSUMED STATIC WATER PRESSURE OF 68 PSI
	- IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21
	<ul> <li>IRRIGATION MAINLINE: PVC SCHEDULE 40 MAINLINE SIZE 3"</li> </ul>
=======	PIPE SLEEVE: PVC SCHEDULE 40
# • # •	Valve Callout  Valve Number  Valve Flow
#"	Valve Flow Valve Size

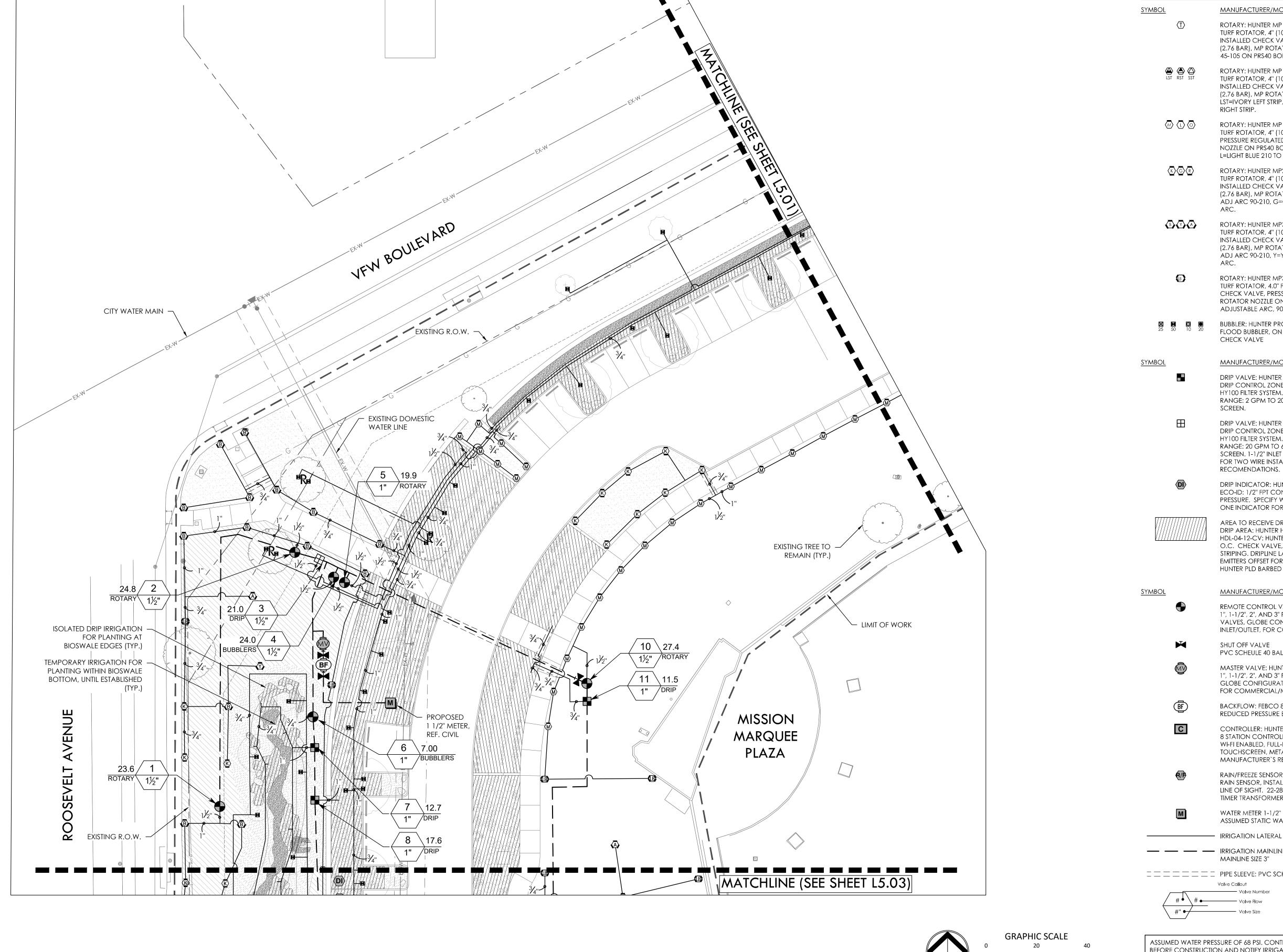
ASSUMED WATER PRESSURE OF 68 PSI. CONTRACTOR TO VERIFY PRESSURE BEFORE CONSTRUCTION AND NOTIFY IRRIGATOR BEFORE CONSTRUCTION IF PRESSURE IS LESS THAN 68 PSI.

IRRIG

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JOB NO.	5675.001
DESIGNED BY:	JMM
DRAWN BY:	JMM
CHECKED BY:	BKM

12/01/2021



## IRRIGATION SCHEDULE

MANUFACTURER/MODEL/DESCRIPTION ROTARY: HUNTER MP CORNER PROS-04-PRS40-CV TURF ROTATOR, 4" (10.16CM) POP-UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 40 PSI

(2.76 BAR), MP ROTATOR NOZZLE. T=TURQUOISE ADJ ARC 45-105 ON PR\$40 BODY. ROTARY: HUNTER MP STRIP PROS-04-PRS40-CV

TURF ROTATOR, 4" (10.16 CM) POP-UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE ON PRS40 BODY. LST=IVORY LEFT STRIP, SST=BROWN SIDE STRIP, RST=COPPER

ROTARY: HUNTER MP1000 PROS-04-PRS40-CV TURF ROTATOR, 4" (10.16 CM) POP-UP WITH CHECK VALVE, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE ON PRS40 BODY. M=MAROON ADJ ARC 90 TO 210, L=LIGHT BLUE 210 TO 270 ARC, O=OLIVE 360 ARC.

ROTARY: HUNTER MP2000 PROS-04-PRS40-CV TURF ROTATOR, 4" (10.16 CM) POP-UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 40 PSI

(2.76 BAR), MP ROTATOR NOZZLE ON PRS40 BODY. K=BLACK ADJ ARC 90-210, G=GREEN ADJ ARC 210-270, R=RED 360

ROTARY: HUNTER MP3000 PROS-04-PRS40-CV TURF ROTATOR, 4" (10.16 CM) POP-UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE ON PR\$40 BODY. B=BLUE ADJ ARC 90-210, Y=YELLOW ADJ ARC 210-270, A=GRAY 360

ROTARY: HUNTER MP3500 PROS-04-PRS40-CV TURF ROTATOR, 4.0" POP-UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PR\$40 BODY. LB=LIGHT BROWN ADJUSTABLE ARC, 90-210.

 BUBBLER: HUNTER PROS-06-CV-PCN 10 FLOOD BUBBLER, ON FIXED RISER, 6.0" POP-UP, DRAIN CHECK VALVE

#### MANUFACTURER/MODEL/DESCRIPTION

DRIP VALVE: HUNTER ICZ-101-40 DRIP CONTROL ZONE KIT. 1" ICV GLOBE VALVE WITH 1" HY100 FILTER SYSTEM. PRESSURE REGULATION: 40PSI. FLOW RANGE: 2 GPM TO 20 GPM. 150 MESH STAINLESS STEEL SCREEN.

DRIP VALVE: HUNTER ICZ-151-40 DRIP CONTROL ZONE KIT. 1-1/2" ICV GLOBE VALVE WITH 1" HY100 FILTER SYSTEM. PRESSURE REGULATION: 40PSI. FLOW RANGE: 20 GPM TO 60 GPM. 120 MESH STAINLESS STEEL SCREEN. 1-1/2" INLET X DUAL 1" OUTLETS. INSTALL DEODER FOR TWO WIRE INSTALLATION, PER MANUFACTURER'S RECOMENDATIONS.

DRIP INDICATOR: HUNTER ECO-ID ECO-ID: 1/2" FPT CONNECTION WITH 12-60 PSI OPERATING PRESSURE. SPECIFY WITH HUNTER SJ SWING JOINT. INSTALL ONE INDICATOR FOR EACH DRIP VALVE.

> AREA TO RECEIVE DRIPLINE DRIP AREA: HUNTER HDL-04-12-CV

HDL-04-12-CV: HUNTER DRIPLINE W/ 0.4 GPH EMITTERS AT 12" O.C. CHECK VALVE, DARK BROWN TUBING WITH TAN STRIPING. DRIPLINE LATERALS SPACED AT 12" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. INSTALL WITH HUNTER PLD BARBED OR PLD-LOC FITTINGS.

### MANUFACTURER/MODEL/DESCRIPTION

REMOTE CONTROL VALVE: HUNTER ICV-G 1", 1-1/2", 2", AND 3" PLASTIC ELECTRIC REMOTE CONTROL VALVES, GLOBE CONFIGURATION, WITH NPT THREADED

INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE. SHUT OFF VALVE PVC SCHEULE 40 BALL VALVE, SLIP X SLIP

MASTER VALVE: HUNTER ICV-G 1-1/2" 1", 1-1/2", 2", AND 3" PLASTIC ELECTRIC MASTER VALVE, GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE.

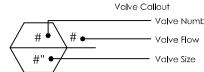
BACKFLOW: FEBCO 860, RPZ 1-1/2" REDUCED PRESSURE BACKFLOW PREVENTER

> CONTROLLER: HUNTER HCC-800-M 8 STATION CONTROLLER WITH EZDM TWO-WIRE DECODER, WI-FI ENABLED, FULL-FUNCTIONING CONTROLLER WITH TOUCHSCREEN, METAL CABINET, MOUNTED INDOORS PER MANUFACTURER'S RECOMMENDATIONS.

RAIN/FREEZE SENSOR: HUNTER WR-CLIK RAIN SENSOR, INSTALL WITHIN 1000 FT OF CONTROLLER, IN LINE OF SIGHT. 22-28 VAC/VDC 100 MA POWER FROM TIMER TRANSFORMER. MOUNT AS NOTED.

ASSUMED STATIC WATER PRESSURE OF 68 PSI - IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 --- --- IRRIGATION MAINLINE: PVC SCHEDULE 40

\_ \_ \_ \_ PIPE SLEEVE: PVC SCHEDULE 40

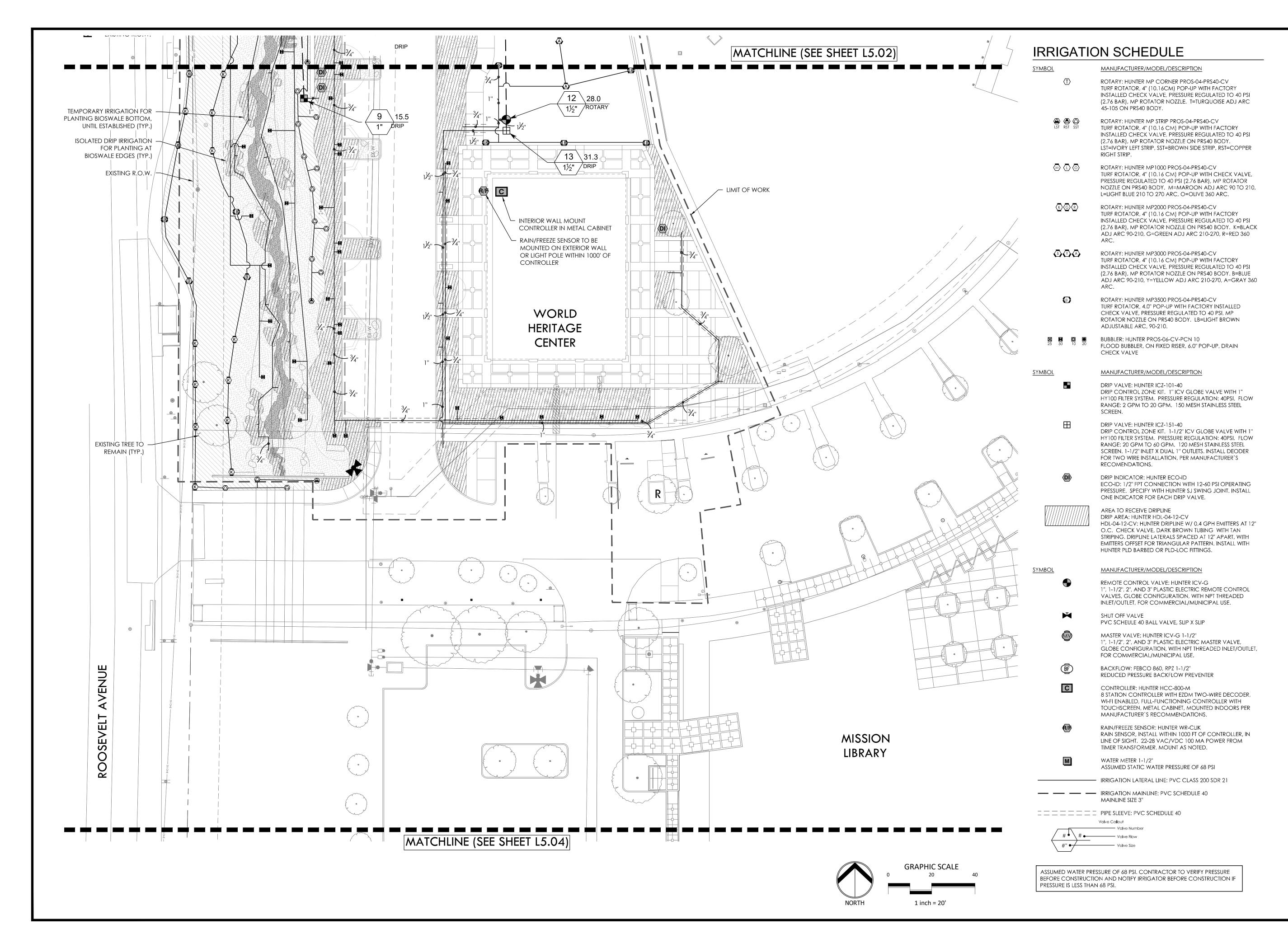


1 inch = 20'

ASSUMED WATER PRESSURE OF 68 PSI. CONTRACTOR TO VERIFY PRESSURE BEFORE CONSTRUCTION AND NOTIFY IRRIGATOR BEFORE CONSTRUCTION IF PRESSURE IS LESS THAN 68 PSI.

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JOB NO. 5675.001 DESIGNED BY: JMM DRAWN BY: JMM CHECKED BY: DATE: 12/01/2021



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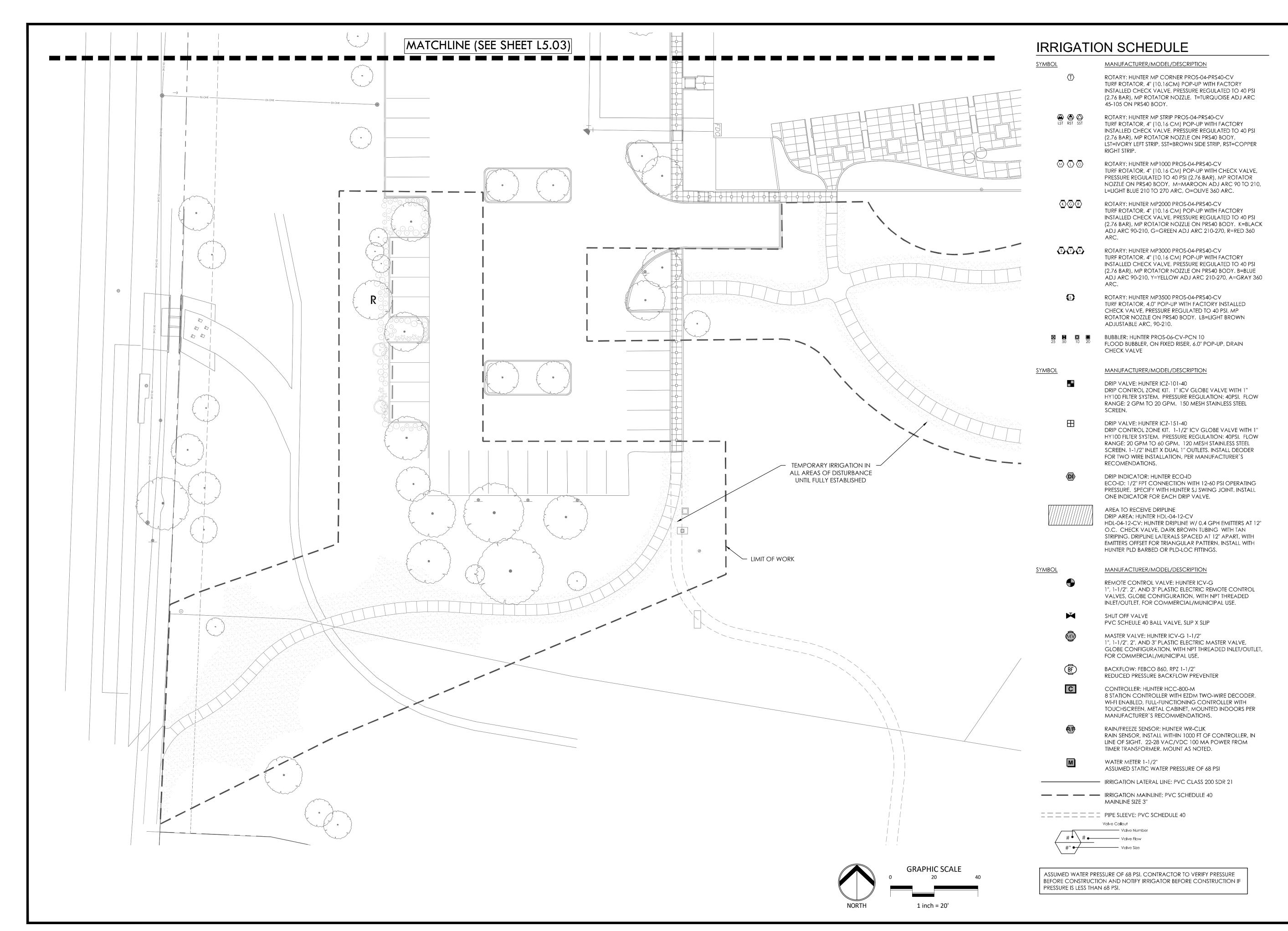
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2. VERIFY THAT THE WORK OF OTHER CONTRACTORS/TRADES IS SUFFICIENTLY COMPLETE TO ALLOW COMMENCEMENT OF IRRIGATION INSTALLATION PRIOR TO BEGINNING OF WORK. CONTRACTORS SHALL COORDINATE INSTALLATION OF ALL IRRIGATION SLEEVES UNDER PAVEMENT WITH OTHER CONTRACTORS.

3. COORDINATE IRRIGATION INSTALLATION WITH THE WORK OF OTHER CONTRACTORS/TRADES AND PROTECT THE WORK OF OTHER CONTRACTOR/TRADES. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES RESULTING FROM HIS ACTIONS.

4. THE IRRIGATION CONTRACTOR SHALL PROVIDE THE OWNER WITH TWO COPIES OF THE PARTS LIST AND MANUFACTURER'S CATALOG SHOWING PERFORMANCE, QUALITY AND FUNCTION OF EACH ITEM OF EQUIPMENT IN THE SYSTEM. IN ADDITION, THE IRRIGATION CONTRACTOR SHALL PROVIDE THE OWNER WRITTEN INSTRUCTIONS FOR OPERATION AND MAINTENANCE OF THE SYSTEM.

5. PRIOR TO THE ACCEPTANCE OF IRRIGATION SYSTEM BY OWNER, A PERSON QUALIFIED TO REPRESENT THE IRRIGATION CONTRACTOR SHALL BE PRESENT AT THE FINAL INSPECTION TO DEMONSTRATE THE SYSTEM AND PROVE ITS PERFORMANCE PRIOR TO THE INSPECTION. ALL WORK SHALL HAVE BEEN COMPLETED, TESTED, ADJUSTED, AND PLACED IN OPERATION.

6. WORK MUST BE GUARANTEED FOR TWO YEARS.

7. IRRIGATION SYSTEM INSTALLATION TO BE PERFORMED IN ACCORDANCE WITH ALL PERTINENT CODES AND ORDINANCES.

8. NO PVC PIPING SHALL BE LOCATED UNDER TREE ROOTBALLS.

9. THE CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION. IF ANY UNDERGROUND OR ABOVE GROUND CONSTRUCTION IS LOCATED AS TO SIGNIFICANTLY HINDER INSTALLATION OR FUNCTION OF THE IRRIGATION SYSTEM, THE OWNER SHALL BE NOTIFIED IMMEDIATELY.

10. MAIN LINE PIPING AND LATERAL PIPING MAY BE PLACED IN SAME TRENCH WHEN POSSIBLE. MAIN LINE PIPING SHALL BE INSTALLED IN BOTTOM OF TRENCH WITH LATERALS ON TOP.

11. SLEEVES SHALL BE INSTALLED WHEREVER PIPES RUN UNDER PAVEMENT. SLEEVES SHALL BE SCH 40 AND A MINIMUM OF TWO PIPE SIZES LARGER THAN THE PIPE.

12. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ELECTRICAL POWER TO ALL CONTROLLERS.

13. PRIOR TO BEGINNING OF WORK, CONTRACTOR SHALL VERIFY MINIMUM STATIC PRESSURE AT THE POINT OF CONNECTION OF <<68>> PSI. IF THE STATIC PRESSURE IS LESS THAN <<68>> PSI AT THE POINT OF CONNECTION, STOP WORK, NOTIFY ENGINEER AND DO NOT PROCEED UNTIL INSTRUCTED BY ENGINEER.

14. ATTACH A PREPRINTED, HEAVY DUTY PLASTIC SERIALIZED TAG TO EACH CONTROL VALVE WITH ITS ASSOCIATED CONTROLLER STATION NUMBER. TAGS SHOULD BE AS SUPPLIED BY RAINBIRD OR APPROVED EQUAL.

15. THE PIPE SHOWN IN PAVED AREAS WITHOUT SLEEVES IS SHOWN IN THESE AREAS FOR PURPOSE OF DRAWING CLARITY. PIPE TO BE IN NEAREST UNPAVED LOCATION.

16. THE IRRIGATION CONTROLLER(S) SHALL BE EQUIPPED WITH RAIN/FREEZE SENSOR(S). MOUNT THE TRANSMITTER(S) IN AN OPEN

17. ALL BACKFLOW INSTALLATIONS AND CONNECTIONS TO CITY WATER LINES MUST BE PERMITTED SEPARATELY BY THE CITY

18. THE IRRIGATION SYSTEM SHALL BE MAINTAINED IN ITS PROPER WORKING ORDER DURING THE 2 YEAR MAINTENANCE PERIOD.

19. ALL WIRING SHALL BE RATED FOR DIRECT BURIAL.

## DRIP NOTES:

. AIR RELIEF VALVE TO BE PLACED AT HIGH POINT IN BED.

2. FLUSH VALVE TO BE PLACED AT LOW POINT IN BED ON EXHAUST LINE.

3. THESE LAYOUTS ARE TYPICAL AND ARE SUBJECT TO CHANGE DUE TO SITE CONDITIONS SUCH AS GRADING.

4. IRRIGATION LATERAL LINES FEED SUPPLY HEADERS.

### **INSPECTION NOTES:**

. HEADS SHALL NOT SPRAY ON IMPERVIOUS SURFACES.

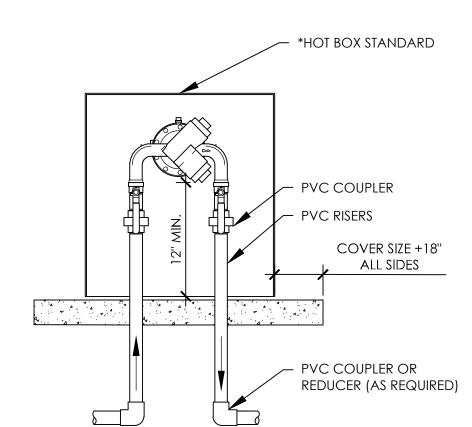
2. HEADS SHALL NOT SPRAY ON WALLS OR FENCES.

3. HEADS SHALL NOT BE CLOSER THAN 4 INCHES OF THE EDGE OF HARDSCAPE.

4. NO DRINKING DOMESTIC USES ALLOWED ON IRRIGATION LINES, NO SWIMMING POOL USE OR FOUNTAINS.

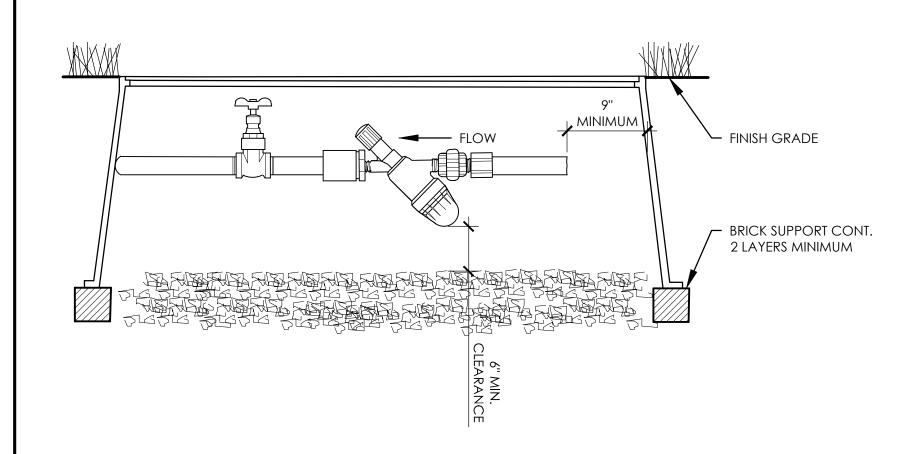
5. CONTRACTOR SHALL COMPLY WITH ALL INSPECTION REQUIREMENTS OF THE MUNICIPALITY.

6. FOR FINAL INSPECTION, IRRIGATOR'S REPRESENTATIVE MUST BE PRESENT.



HOT BOX SHALL BE OF A SIZE TO ACCOMMODATE SPECIFIED CLEARANCES. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING POWER TO HOT BOX ELECTRICAL RECEPTACLE.

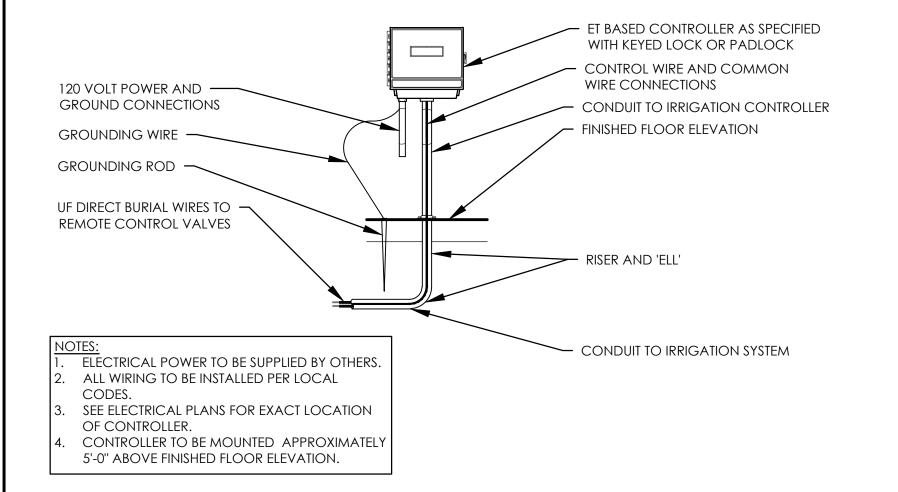
INSTALL WIRING PER LOCAL CODE. INSTALL PER MANUFACTURERS INSTRUCTIONS.

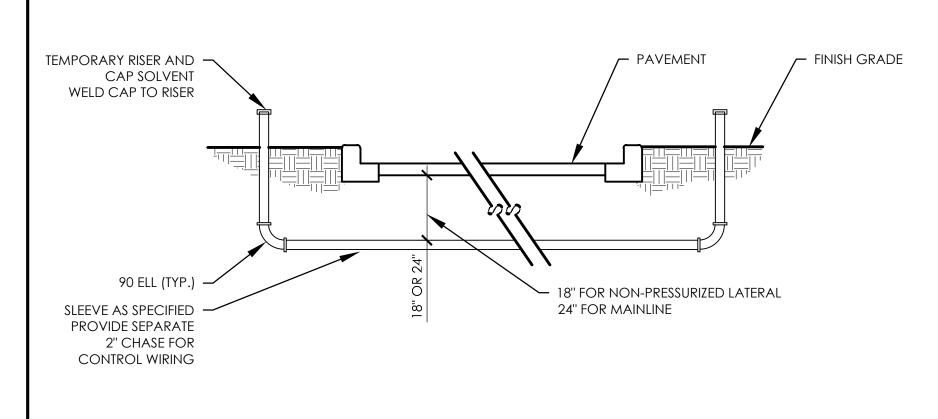


REDUCED PRESSURE ZONE ASSEMBLY SCALE: NTS

**WYE STRAINER** 

SCALE: NTS





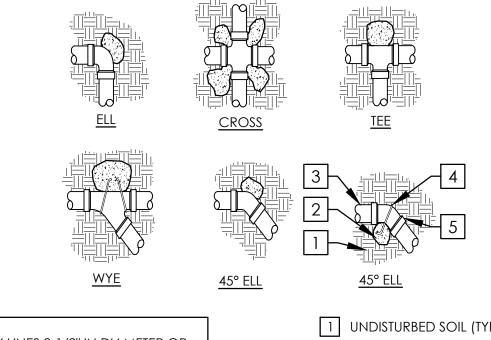


SCALE: NTS

SCALE: NTS

**SLEEVE INSTALLATION** 

SCALE: NTS



SUPPLY LINES 2-1/2" IN DIAMETER OR LARGER SHALL RECEIVE CONCRETE THRUST BLOCKS. SEE SPECIFICATIONS FOR AMOUNT OF CONCRETE TO BE USED FOR THRUST

THRUST BLOCK

1 UNDISTURBED SOIL (TYP.) 2 CONCRETE THRUST BLOCK (TYP.) 3 PIPE (TYP.) 4 REBAR BENT AROUND FITTING (TYP.) 5 FITTING (TYP.)

WIRING IN SAME TIE A 24-INCH LOOP IN ALL WIRING AT CHANGES OR DIRECTION OF 30° OR GREATER. UNTIE AFTER ALL CONNECTIONS HAVE BEEN MADE. RUN WIRING BENEATH AND ALL SOLVENT WELD PLASTIC BESIDE MAINLINE. TAPE AND PIPING TO BE SNAKED IN BUNDLE AT 10-FOOT INTERVALS. TRENCH AS SHOWN. SLEEVE BELOW ALL HARDSCAPE ELEMENTS WITH SCHEDULE 40 PVC PIPE, TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE WITHIN. FOR PIPE AND WIRE BURIAL DEPTHS, SEE SPECIFICATIONS. CONTROLLER WIRE BURIED WITHOUT CONDUIT SHALL BE RATED FOR

DIRECT BURIAL.

PIPE AND WIRE TRENCHING

SCALE: NTS

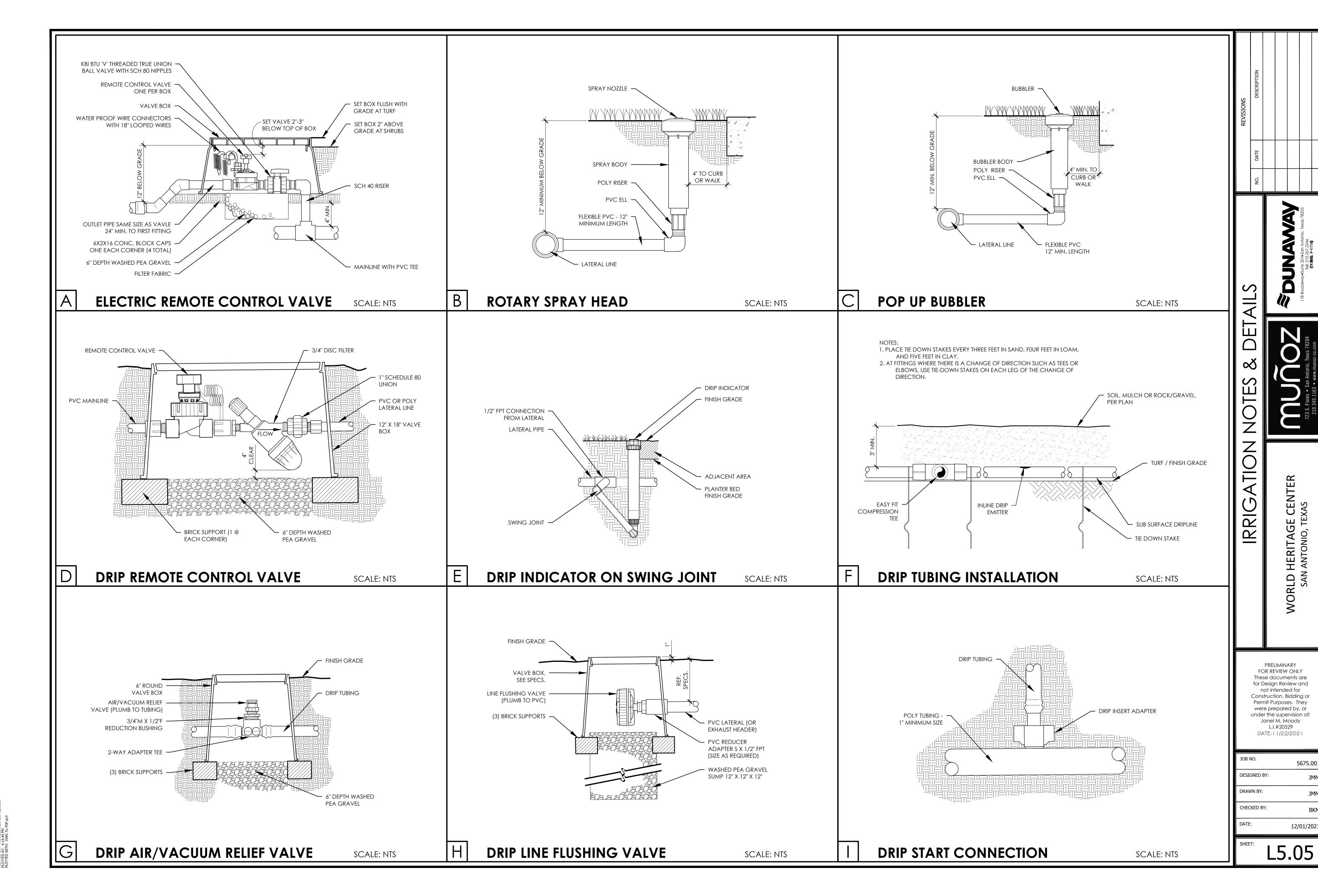
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IRRIC

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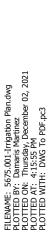
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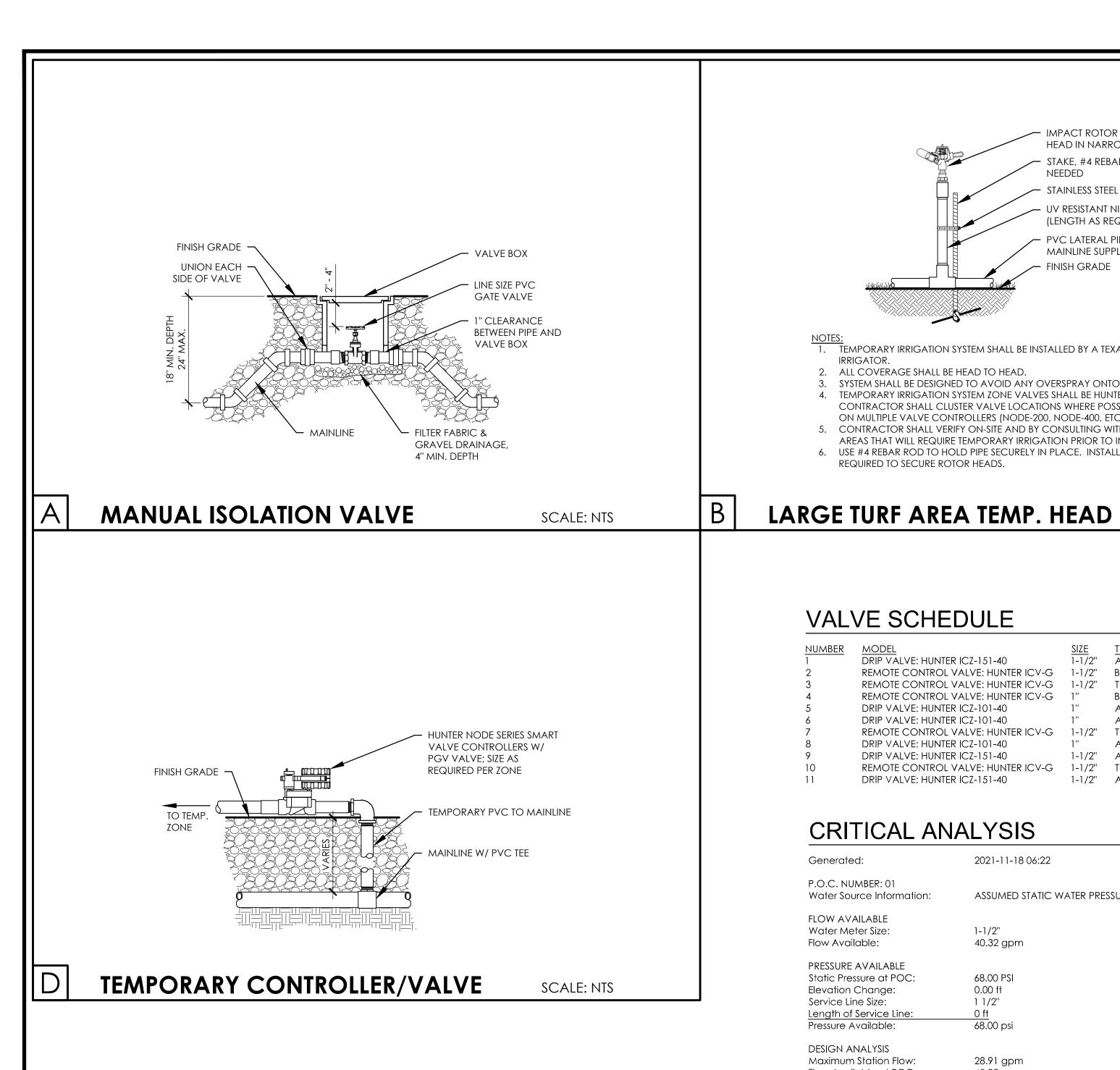
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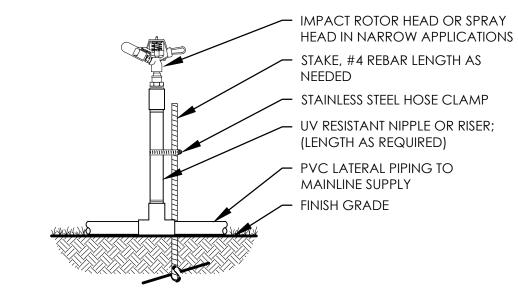


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NOTES:

1. TEMPORARY IRRIGATION SYSTEM SHALL BE INSTALLED BY A TEXAS STATE LICENSED

- 2. ALL COVERAGE SHALL BE HEAD TO HEAD.
- 3. SYSTEM SHALL BE DESIGNED TO AVOID ANY OVERSPRAY ONTO SIDEWALKS AND STREETS.
- 4. TEMPORARY IRRIGATION SYSTEM ZONE VALVES SHALL BE HUNTER NODE CONTROLLER, CONTRACTOR SHALL CLUSTER VALVE LOCATIONS WHERE POSSIBLE TO COMBINE ZONES ON MULTIPLE VALVE CONTROLLERS (NODE-200, NODE-400, ETC...)
- 5. CONTRACTOR SHALL VERIFY ON-SITE AND BY CONSULTING WITH LANDSCAPE ARCHITECT AREAS THAT WILL REQUIRE TEMPORARY IRRIGATION PRIOR TO INSTALLATION OF SYSTEM.
- 6. USE #4 REBAR ROD TO HOLD PIPE SECURELY IN PLACE. INSTALL AT INTERVALS AS REQUIRED TO SECURE ROTOR HEADS.

SCALE: NTS

 HUNTER MPR NOZZLE HUNTER PROS-00-PRS30 - STAKE, #4 REBAR LENGTH AS - STAINLESS STEEL HOSE CLAMP — UV RESISTANT NIPPLE OR RISER; (LENGTH AS REQUIRED), PVC SCH 80 - PVC LATERAL PIPING TO MAINLINE SUPPLY - FINISH GRADE

TEMPORARY IRRIGATION SYSTEM SHALL BE DESIGNED BY A TEXAS STATE LICENSED IRRIGATOR AND SHALL BE SUBMITTED FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

- 2. ALL COVERAGE SHALL BE HEAD TO HEAD.
- 3. SYSTEM SHALL BE DESIGNED TO AVOID ANY OVERSPRAY ONTO SIDEWALKS AND STREETS.
- 4. TEMPORARY IRRIGATION SYSTEM ZONE VALVES SHALL BE HUNTER NODE CONTROLLER VALVES, CONTRACTOR SHALL CLUSTER VALVE LOCATIONS WHERE POSSIBLE TO COMBINE ZONES ON MULTIPLE VALVE CONTROLLERS (NODE-200, NODE-400, ETC...)
  5. NO PIPING SHALL BE RUN WITHIN THE PROTECTION ZONE OF EXISTING TREES UNLESS APPROVED
- 6. CONTRACTOR SHALL VERIFY ON-SITE AND BY CONSULTING WITH LANDSCAPE ARCHITECT AREAS THAT WILL REQUIRE TEMPORARY IRRIGATION PRIOR TO DESIGN AND INSTALLATION OF SYSTEM.
- 7. USE #4 X 24" REBAR ROD WITH "J" HOOKED RADIUS AT ONE END TO HOLD PIPE SECURELY IN
- PLACE. INSTALL AT INTERVALS OF 10 FEET.

SMALL TURF AREA TEMP. HEAD

SCALE: NTS

# VALVE SCHEDULE

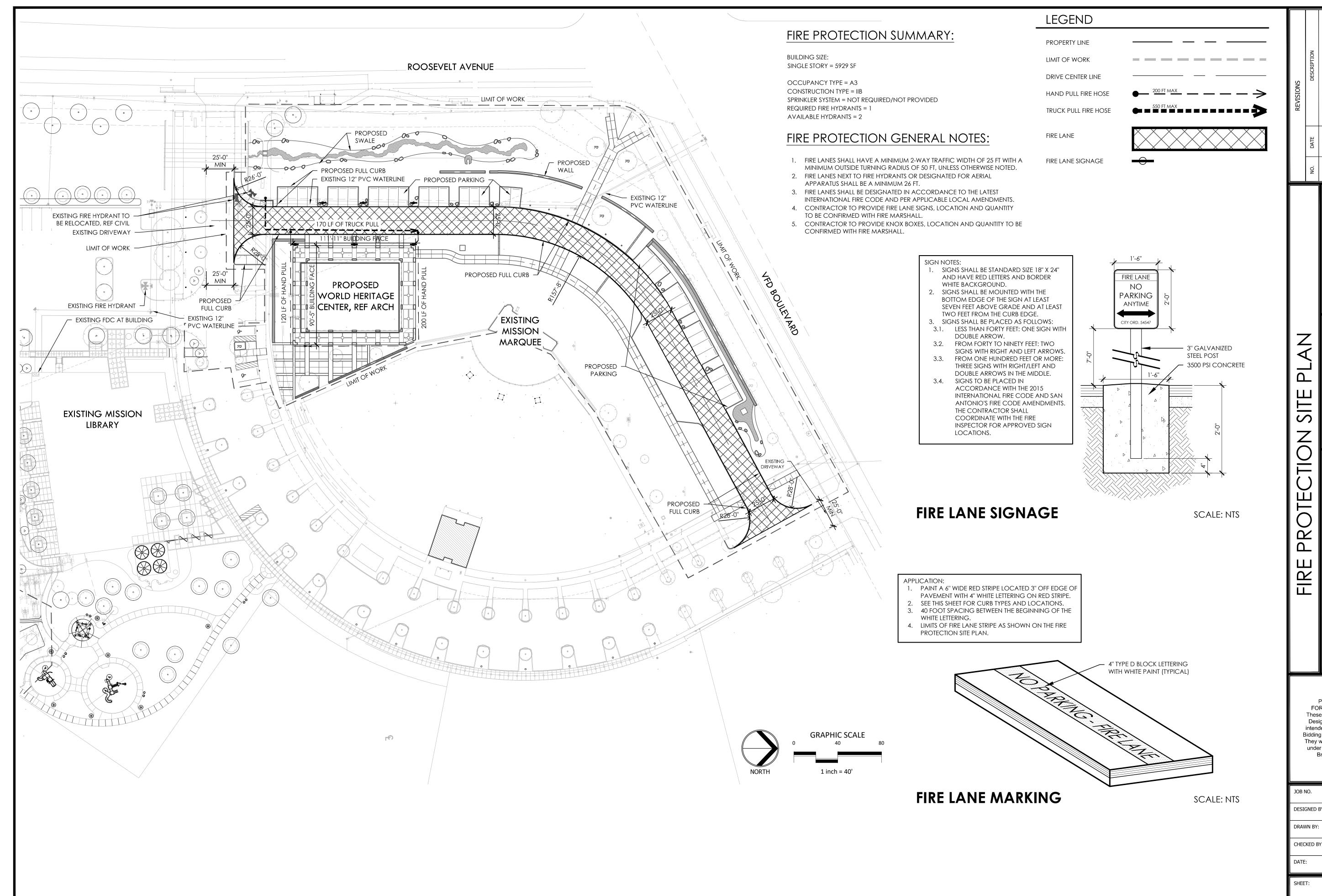
NULL ARER	MODEL	CLZE	TVDE	CD14	DECICAL DCI		\/A \/E \@cc	DCI		DDECID.
<u>NUMBER</u>	<u>MODEL</u>	<u>SIZE</u>	<u>TYPE</u>	<u>GPM</u>	<u>DESIGN PSI</u>	FRICTION LOSS	<u>VALVE LOSS</u>	<u>PSI</u>	<u>PSI @ POC</u>	<u>PRECIP</u>
1	DRIP VALVE: HUNTER ICZ-151-40	1-1/2''	AREA FOR DRIPLINE	20.99	15	1.39	11.2	27.58	41.95	0.64 in/h
2	REMOTE CONTROL VALVE: HUNTER ICV-G	1-1/2"	BUBBLER	24.00	20	8.67	1.5	30.16	44.88	1.77 in/h
3	REMOTE CONTROL VALVE: HUNTER ICV-G	1-1/2"	TURF ROTARY	23.06	40	11.33	1.5	52.83	67.43	0.31 in/h
4	REMOTE CONTROL VALVE: HUNTER ICV-G	1"	BUBBLER	7.00	20	1.08	2.7	23.78	36.38	1.7 in/h
5	DRIP VALVE: HUNTER ICZ-101-40	1"	AREA FOR DRIPLINE	12.74	15	2.85	21.93	39.77		0.65 in/h
6	DRIP VALVE: HUNTER ICZ-101-40	1"	AREA FOR DRIPLINE	17.52	15	0.07	35.58	50.65	64.5	0.64 in/h
7	REMOTE CONTROL VALVE: HUNTER ICV-G	1-1/2"	TURF ROTARY	22.40	40	6.19	1.5	47.69	62.29	0.28 in/h
8	DRIP VALVE: HUNTER ICZ-101-40	1"	AREA FOR DRIPLINE	11.51	15	0.8	19.72	35.52	48.4	0.64 in/h
9	DRIP VALVE: HUNTER ICZ-151-40	1-1/2"	AREA FOR DRIPLINE	17.91	15	0.06	11	26.06	40.02	0.65 in/h
10	REMOTE CONTROL VALVE: HUNTER ICV-G	1-1/2"	TURF ROTARY	28.91	40	1.44	1.5	42.94	58.46	0.37 in/h
11	DRIP VALVE: HUNTER ICZ-151-40	1-1/2"	AREA FOR DRIPLINE	23.83	15	5.68	11.77	32.44	47.3	0.64 in/h

Generated:	2021-11-18 06:22
P.O.C. NUMBER: 01	
Water Source Information:	ASSUMED STATIC WATER PRESSURE OF 68 PS
FLOW AVAILABLE	
Water Meter Size:	1-1/2"
Flow Available:	40.32 gpm
PRESSURE AVAILABLE	
Static Pressure at POC:	68.00 PSI
Elevation Change:	0.00 ft
Service Line Size:	1 1/2"
Length of Service Line:	O ft
Pressure Available:	68.00 psi
DESIGN ANALYSIS	
Maximum Station Flow:	28.91 gpm
Flow Available at POC:	40.32 gpm
Residual Flow Available:	11.41 gpm
Critical Station:	3
Design Pressure:	40.00 psi
Friction Loss:	10.30 psi
E'U'	

Friction Loss:	10.30 psi
Fittings Loss:	1.03 psi
Elevation Loss:	0.00 psi
Loss through Valve:	1.50 psi
Pressure Req. at Critical Station:	52.82 psi
oss for Fittings:	0.01 psi
oss for Main Line:	0.06 psi
oss for POC to Valve Elevation:	0.00 psi
oss for Backflow:	11.93 psi
oss for Master Valve:	1.50 psi
oss for Water Meter:	1.11 psi
Critical Station Pressure at POC:	67.43 psi
Pressure Available:	68.00 psi
Residual Pressure Available:	0.57 psi

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CHECKED BY:	ВКМ
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DRAWN BY: MMP

CHECKED BY: BKM

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