HIDALGO COUNTY

PRECINCT No.4
NEW JUSTICE CENTER
HIDALGO COUNTY, TEXAS

HIDALGO COUNTY JUDGE

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02.05.2021

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HIDALGO COUNTY PRECINCT No.4
NEW JUSTICE CENTER
HIDALGO COUNTY, TEXAS
1212 SOUTH 25TH AVENUE, EDINBURG, TEXAS 78542

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COVER SHEET

CS1.1

HIDALGO COUNTY

PRECINCT No.4
NEW JUSTICE CENTER

HIDALGO COUNTY, TEXAS

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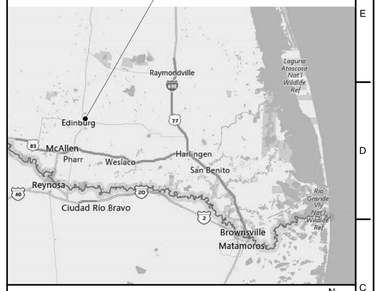
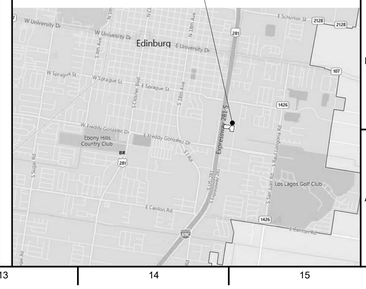
PROJECT LOCATED IN THE CITY OF HARLINGEN



VICINITY MAP

N

PROJECT SITE LOCATION



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CS1.2

SITE PLAN NOTES

GENERAL SITE NOTES:

1. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY, COUNTY, STATE, FEDERAL AND OSHA REGULATIONS.
2. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULES, SLOPE PAVING, RAMPS, SIDEWALKS, EXIT PORCHES, PRECISE BUILDING DIMENSIONS, EXACT BUILDING UTILITY ENTRANCE LOCATIONS, AND TOTAL NUMBER, LOCATION, AND SIZE OF DOWNSPOUTS.
3. ALL DISTURBED AREAS ARE TO RECEIVE FOUR INCHES OF TOPSOIL, SEED, MULCH, AND WATER UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED.
4. ALL ISLANDS WITH CURB & GUTTER SHALL BE LANDSCAPED. THOSE ISLANDS ARE TO HAVE 18" CURB & GUTTER. ALL REMAINING ISLANDS ARE TO BE STRIPED AS SHOWN.
5. ALL DIMENSIONS AND RADII ARE TO THE BACK OF CURB, EDGE OF PAVEMENT, CENTER OF STRIPE OR OBJECT, OR FACE OF BUILDING UNLESS OTHERWISE NOTED.
6. EXISTING STRUCTURES WITHIN CONSTRUCTION LIMITS THAT ARE TO BE ABANDONED, REMOVED OR RELOCATED, SHALL BE DONE IN A PROPER MANNER OFFSITE, AS NECESSARY. ALL COST SHALL BE INCLUDED IN BASE BID.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE DONE IN ACCORDANCE WITH GOVERNING AUTHORITIES SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.
8. THE SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED "THE CITY STANDARD SITE WORK SPECIFICATIONS".
9. CONTRACTOR IS RESPONSIBLE FOR PROTECTION AND REPLACEMENT OF PROPERTY CORNERS.
10. CONTRACTOR SHALL MATCH EXISTING CURB & GUTTER IN GRADE, SIZE, TYPE AND ALIGNMENT WHERE APPLICABLE.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO DAMAGE OF ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPPING, CURB, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING.

DEMOLITION PLAN NOTES

"CAUTION" - NOTICE TO CONTRACTOR:

THE CONTRACTOR IS PUT ON NOTICE THAT THERE ARE NUMEROUS UNDERGROUND UTILITIES IN THE LINE OF WORK, INCLUDING WATER, SEWER, GAS, TELEPHONE IRRIGATION (CONCRETE PIPE) AND ELECTRIC. THERE MAY BE OTHER UTILITIES INCLUDING CABLE TELEVISION, TELECOMMUNICATIONS AND OTHERS, SOME OF THESE UTILITIES MAY BE ABANDONED, WHILE MANY ARE ACTIVE.

THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN CONDUCTING EXCAVATION OPERATIONS, AND IF ANY EXISTING UTILITIES ARE DAMAGED, THEY SHALL BE REPAIRED IMMEDIATELY AT NO COST TO THE OWNER. THE CONTRACTOR IS TO BE AWARE THAT IF ANY EXISTING UTILITIES ARE SHOWN ON THE PLANS THEY ARE SHOWN IN THEIR APPROXIMATE LOCATION ONLY AND THAT THE EXISTING UTILITIES SHOWN REPRESENT ONLY A DILIGENT EFFORT TO SHOW THE APPROXIMATE LOCATION OF SOME OF THE UTILITIES.

THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST FILED LOCATION OF UTILITIES.

"NOTICE TO CONTRACTOR" - TEXAS ONE CALL SYSTEM:

AS REQUIRED BY THE "TEXAS UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT" TEXAS ONE CALL SYSTEM MUST BE CONTACTED (800-245-4545) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION OPERATIONS PERFORMED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT TEXAS ONE CALL SYSTEM.

GENERAL DEMOLITION NOTES:

1. NO EARTH DISTURBING ACTIVITIES SHALL COMMENCE UNTIL ALL PERIMETER EROSION CONTROL MEASURES ARE IN PLACE IN ACCORDANCE WITH THE EROSION & SEDIMENT CONTROL PLAN.
2. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH ALL REGULATIONS GOVERNING THE DEMOLITION, REMOVAL, TRANSPORTATION AND DISPOSAL OF ALL DEMOLITION DEBRIS.
3. THE CONTRACTOR SHALL LOCATE AND REMOVE ALL UNDERGROUND UTILITY PIPING, IRRIGATION PIPING, AND CONDUIT ON EXISTING SITE AS PART OF THE BASE BID, UP TO A DEPTH OF 24 INCHES BELOW EXISTING GRADES.
4. CONTRACTOR SHALL LOCATE AND REMOVE ALL UNDERGROUND UTILITY CABLES (ELECTRIC, TELEPHONE, ETC.) ON THIS SITE UP TO A DEPTH OF 24 INCHES BELOW EXISTING GRADES AS PART OF BASE BID.
5. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST OSHA STANDARDS FOR EXCAVATING AND TRENCHING PROCEDURES. CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, ETC. AS NECESSARY FOR THESE OPERATIONS, AND SHALL COMPLY WITH ALL OSHA PERFORMANCE CRITERIA.
6. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE PROTECTION OF ALL PROPERTY CORNER MONUMENTS, AND SHALL HAVE, AT HIS EXPENSE, ALL CORNER MONUMENTS REPLACED WHICH ARE DISTURBED BY CONSTRUCTION ACTIVITIES.
7. NOTES SHOWN HERE ON REGARDING SPECIFIC ITEMS OF DEMOLITION ARE GENERAL IN NATURE, AND ARE NOT INTENDED TO BE WHOLLY INCLUSIVE. THE CONTRACTOR SHALL DEMOLISH AND REMOVE ALL EXISTING IMPROVEMENTS TO THE EXTENT AS NOTED IN THE SPECIFICATIONS, TO THE SATISFACTION OF THE OWNER.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING DISCONNECTION OF ALL UTILITIES SERVING THE EXISTING SITE WITH THE APPROPRIATE UTILITY COMPANY, AND SHALL OBTAIN APPROVAL FROM SAME TO COMMENCE DEMOLITION ACTIVITIES.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLUGGING, CAPPING, OR OTHERWISE TERMINATING UTILITY SERVICE LINES AT EXISTING METER LOCATIONS, CLEANOUTS, ETC.

INSPECTIONS/CERTIFICATIONS NOTE:

ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.

UTILITY PLAN NOTES

GENERAL UTILITY NOTES:

1. ALL FILL MATERIAL IS TO BE IN PLACE, AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
2. CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
3. IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATER LINES, SANITARY LINES, STORM LINES AND GAS LINES (EXISTING AND PROPOSED, THE SANITARY LINE SHALL BE DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF CROSSING, THE WATER LINE SHALL HAVE MECHANICAL JOINTS WITH APPROPRIATE THRUST BLOCKING AS REQUIRED TO PROVIDE A MINIMUM OF 18" CLEARANCE, MEETING REQUIREMENTS OF ANSI A21.10 OR ANSI 21.11 (AWWA C-151) (CLASS 50). CONTRACTOR SHALL BE RESPONSIBLE FOR ADDING 45° BENDS WHERE NECESSARY TO ROUTE PROPOSED WATER LINES AROUND PROPOSED STORM SEWER.
4. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND TO ASSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH THE CITY UTILITY DEPARTMENT AS TO LOCATION AND SCHEDULING OF TIE-INS/CONNECTIONS PRIOR TO CONNECTING TO EXISTING UTILITIES.
5. MINIMUM TRENCH WIDTH SHALL BE 2 FEET.
6. LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED PRIOR TO BACKFILLING.
7. ALL CONCRETE FOR ENCASEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH AT 3000 P.S.I.
8. DRAWINGS TO NOT PURPORT TO SHOW ALL EXISTING UTILITIES.
9. EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
10. CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE LOCAL AUTHORITIES WITH REGARDS TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.
11. CONTRACTOR SHALL COMPLY COMPLETELY WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURE. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, AND OTHER MEANS OF PROTECTION. THIS IS TO INCLUDE BUT NOT LIMITED FOR ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH PERFORMANCE CRITERIA AS OUTLINED BY OSHA.
12. CONTRACTOR SHALL REFER TO ARCHITECTS PLANS AND SPECIFICATIONS FOR ACTUAL LOCATION OF ALL UTILITY ENTRANCES TO INCLUDE: SANITARY SEWER LATERALS, DOMESTIC AND FIRE PROTECTION WATER SERVICE, ELECTRICAL, TELEPHONE AND GAS SERVICE.
13. ALL STEEL ENCASEMENT PIPE SHALL HAVE A WALL THICKNESS OF 0.25 INCHES.
14. ALL SANITARY SEWER AND WATER LINES SHALL COMPLY WITH THE REQUIREMENTS AS SPECIFIED IN THE SITE WORK SPECIFICATIONS.
15. DIMENSIONS SHOWN ARE TO CENTERLINE OF PIPE OR FITTING, TO CENTERLINE OF MANHOLE, FACE OF BUILDING, OR BACK OF CURB UNLESS OTHERWISE NOTED.
16. IN THE EVENT OF DAMAGE TO UNDERGROUND FACILITIES, WHETHER SHOWN OR NOT SHOWN IN THE DRAWINGS, THE CONTRACTOR SHALL MAKE THE NECESSARY REPAIRS TO PLACE THE FACILITIES BACK IN SERVICE AT NO INCREASE IN THE CONTRACTOR'S PRICE, AND ALL SUCH REPAIRS SHALL CONFORM TO THE REQUIREMENTS OF THE COMPANY OR AGENCY SERVICING THE FACILITY.
17. THE CONTRACTOR SHALL EXERCISE EXTRA CARE TO PREVENT DAMAGE TO ALL OTHER STRUCTURES IN THE AREA INCLUDING BUILDINGS, FENCES, ROADS, PIPELINES, UTILITIES, ETC., WHETHER PUBLICLY OR PRIVATELY OWNED.
18. UNTIL ACCEPTANCE BY THE ENGINEER OF ANY PART OR ALL OF THE CONSTRUCTION, AS PROVIDED FOR IN THE PLANS AND SPECIFICATIONS, IT SHALL BE UNDER THE CHARGE AND CARE OF THE CONTRACTOR, AND HE SHALL TAKE EVERY NECESSARY PRECAUTION AGAINST INJURY OR DAMAGE TO ANY PART OF THE WORK. THE CONTRACTOR SHALL REBUILD REPAIRS, RESTORE AND MAKE GOOD, AT HIS OWN EXPENSE, ALL INJURIES OR DAMAGE TO ANY PORTION OF THE WORK BEFORE ITS COMPLETION AND ACCEPTANCE.
19. COORDINATE ALL UTILITY WORK WITH PLUMBING PLANS BEFORE COMMENCING ANY UTILITY WORK. REFER TO PLUMBING PLANS FOR CONTINUATION.
20. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE CITY FOR ANY CONSTRUCTION DONE ON PUBLIC R.O.W. AND SHALL INCLUDE TRAFFIC CONTROL AS REQUIRED.
21. NOTICE TO CONTRACTOR: TEXAS ONE CALL SYSTEM AS REQUIRED BY "THE TEXAS UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT" TEXAS ONE CALL SYSTEM MUST BE CONTACTED (800-245-4545) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION OPERATIONS PERFORMED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT TEXAS ONE CALL SYSTEM.
22. CONTRACTOR SHALL VISIT EXISTING CONDITIONS OF THE SITE.
23. CONTRACTOR SHALL IDENTIFY ALL UNDERGROUND LINES BEFORE COMMENCING WORK.CONTRACTOR SHALL ADJUST ANY ELECTRICAL LINES THAT CONFLICT WITH CONSTRUCTION OF THESE IMPROVEMENTS.

TRAFFIC CONTROL NOTE:

GUIDELINES SET FORTH IN PART IV "STANDARDS AND GUIDES FOR TRAFFIC CONTROLS FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE, UTILITY, AND INCIDENT MANAGEMENT OPERATIONS" OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MOST RECENT EDITION AS REVISED) SHALL BE OBSERVED.

UTILITY PLAN DETAIL NOTES

GENERAL NOTES FOR WATER CONSTRUCTION:

1. DISINFECTION OF NEW WATER MAINS SHALL BE IN CONFORMANCE WITH AWWA C601 & C651. ALL NEW WATER MAINS SHALL BE DISINFECTED BEFORE THEY ARE PLACED IN SERVICE. ALL WATER MAINS TAKEN OUT OF SERVICE FOR INSPECTING, REPAIRING OR OTHER ACTIVITY WHICH MIGHT LEAD TO CONTAMINATION OF WATER SHALL BE DISINFECTED BEFORE THEY ARE RETURNED TO SERVICE.
2. ALL WATER LINE PIPE FURNISHED SHALL MEET THE REQUIREMENTS OF AWWA C900. LATEST REVISION. HYDROSTATIC TEST SPEC. SHALL BE 150 P.S.I FOR 8 HOURS OR 180 P.S.I. FOR 4 HOURS.
3. DUCTILE IRON PIPE SHALL CONFORM TO AWWA C110 STANDARDS..
4. CONTRACTOR SHALL PROVIDE ADEQUATE THRUST BLOCKING TO WITHSTAND THRUST PRESSURE. NO SEPARATE PAY.
5. WATER LINE TRENCHES INSIDE STREET RIGHT OF WAY SHALL HAVE SAND BEDDING TO THE SPRINGLINE OF THE PIPE AND THEN BACKFILLED WITH SELECT FILL IN MAX 8" LIFTS AND COMPACTED TO A MINIMUM OF 95% STD. DENSITY, AT +/-3% OF OPTIMUM MOISTURE CONTENT.
6. MAINTAIN A MINIMUM OF 18 INCHES VERTICAL CLEARANCE BETWEEN WATER LINES AND ALL OTHER UTILITIES.
7. UNLESS OTHERWISE APPROVED, ALL WATER MAINS SHALL BE PLACED A MINIMUM DEPTH OF 4'-6' BELOW TOP OF PROPOSED STREET CURBS OR 48" OF COVER ABOVE PIPE LOCATED IN STREET RIGHT OF WAY OR EASEMENTS.
8. ALL CONCRETE BLOCKING SHALL CONSIST OF 3000-P.S.I. CONCRETE.
9. ALL WORK AND MATERIAL SHALL BE SUBJECT TO CITY ENGINEERS APPROVAL DURING CONSTRUCTION AND UPON COMPLETION.
10. ALL WATER SERVICE LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH GOVERNING REGULATIONS.
11. TRACER WIRE SHALL BE INSTALLED ON ALL PUBLIC WATER LINES.

MANHOLE TESTING:

MANHOLES SHALL BE TESTED FOR LEAKAGE SEPARATELY AND INDEPENDENTLY OF THE WASTEWATER LINES BY HYDROSTATIC EXFILTRATION TESTING, VACUUM TESTING OR OTHER METHODS ACCEPTABLE TO THE COMMISSION. IF A MANHOLE FAILS A LEAK TEST, THE MANHOLE MUST BE MADE WATER TIGHT AND RETESTED. THE MAXIMUM LEAKAGE FOR HYDROSTATIC TESTING SHALL BE 0.025 GALLONS PER FOOT DIAMETER PER FOOT ON MANHOLE DEPTH PER HOUR.

SEWER PIPE TESTING:

EXFILTRATION TESTS SHALL BE PERFORMED ON ALL SEWER PIPE USING LOW PRESSURE AIR TEST. THE PROCEDURE FOR THE LOW PRESSURE AIR TEST SHALL CONFORM TO THE PROCEDURE DESCRIBED IN ASTM C-924, ASTM F-1417, OR OTHER APPROPRIATE PROCEDURES.

DEFLECTION TESTING:

DEFLECTION TEST SHALL BE PERFORMED ON ALL FLEXIBLE PIPES. FOR PIPE WITH INSIDE DIAMETERS LESS THAN 27 INCHES, A RIGID MANDREL SHALL BE USED TO MEASURE DEFLECTION. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS. NO PIPE SHALL EXCEED A DEFLECTION OF 5%.

GENERAL NOTES FOR SEWER CONSTRUCTION:

1. THE TOP ELEVATION OF MANHOLES AND CLEANOUTS CONSTRUCTED IN PAVED AREAS SHALL MATCHED FINISHED PAVEMENT GRADE. THE TOP ELEVATION OF MANHOLES CONSTRUCTED IN GRASSED AREAS SHALL BE SIX (6) INCHES ABOVE FINISHED GRADE (UNLESS OTHERWISE NOTED).
2. SEWER PIPE DIAMETERS AND MATERIAL SHALL BE AS INDICATED ON PLANS AND SPECIFICATIONS.
3. IN THE EVENT PLANS OR STANDARD DETAILS CONFLICT WITH THE CITY PLUMBING ORDINANCES, CITY ORDINANCES SHALL CONTROL AND BE ADHERED TO IN ALL CASES.
4. CONTRACTOR MUST BE LICENSED AND BONDED BY THE CITY.
5. PIPE SHALL BE BURIED A MINIMUM OF 4'.
6. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE.
7. REPAIR OF ALL EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
8. CONTRACTOR SHALL MAKE EVERY EFFORT POSSIBLE TO MINIMIZE THE DISTURBANCE OF ALL EXISTING SHRUBS, LAWNS, AND OTHER LANDSCAPING FEATURES AND SHALL COORDINATE REMOVAL OF TREES WITH OWNERS OR ENGINEER.
9. PLUGS BETWEEN THE EXISTING AND PROPOSED SYSTEM SHALL BE REMOVED ONLY WHEN THE PROPOSED SANITARY SEWERS HAVE BEEN COMPLETED, TESTED AND ACCEPTED. NO PLUG SHALL BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.
10. SEWER SERVICE SHALL BE MAINTAINED TO ALL RESIDENCES AT ALL TIMES. IF FOR ANY REASON, THE CONTRACTOR NEEDS TO INTERRUPT SERVICE, HE SHALL FIRST OBTAIN APPROVAL FROM ENGINEER.
11. ALL CUT & PLUG OF SEWER LINES SHALL BE CONSIDERED SUBSIDIARY TO OTHER BID ITEMS. NO SEPARATE PAY WILL BE ALLOWED.
12. WHENEVER SANITARY SEWER CROSSES WITHIN 10 FEET ABOVE OR BELOW A WATER LINE, THE SANITARY SEWER SHALL BE CONSTRUCTED OF D.I.,CLASS 50, PRESSURE PIPE OR AWWA C900 PVC FOR A MINIMUM DISTANCE OF 10 FEET ON EITHER SIDE OF THE WATER LINE.
13. ALL SANITARY SEWER MAINS SHALL BE SDR-26 PVC WITH 4' MINIMUM BURY, PIPE PER THE CITY REQUIREMENTS.
14. P.V.C. PIPE SHALL HAVE BELL AND SPIGOT JOINTS. NO CHEMICALLY WELDED JOINTS SHALL BE PERMITTED.
15. GRADES FOR SEWER MAINS MAY BE VARIED FROM ELEVATIONS INDICATED ON THE PLANS ONLY ON THE DIRECTION AND APPROVAL OF THE OWNER OR HIS AUTHORIZED REPRESENTATIVE, AND BY THE CITY.
16. ALL UTILITIES MAY BE OPEN-CUT UNLESS SPECIFICALLY NOTED OTHERWISE. REPAIR OF ALL EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
17. ALL DUCTILE IRON PIPE SHALL BE POLYETHYLENE LINED.

STORM SEWER PLAN NOTES

STORM SEWER NOTES:

1. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT SIZE, NUMBER AND LOCATION OF ALL ROOF DRAINS.
2. IF THE CONTRACTOR RELOCATES BENCHMARK WITH A NEW BENCHMARK, IT SHALL BE LOCATED WITHIN A TOLERANCE OF 0.10'.
3. CONSTRUCTION SHALL COMPLY WITH ALL GOVERNING CODES AND BE CONSTRUCTED TO SAME.
4. SEE SPECIFICATIONS FOR BACKFILLING AND COMPACTION REQUIREMENTS OF STORM SEWER TRENCHES.
5. ALL PIPES ENTERING STORM SEWER STRUCTURES SHALL BE GROUTED WITH NON-SHRINK GROUT TO ASSURE A WATERTIGHT FIT.
6. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT AND SHALL HAVE TRAFFIC BEARING LIDS. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISHED GRADE. LIDS SHALL BE LABELED "STORM SEWER".
7. THE CONTRACTOR SHALL ADHERE TO ALL TERMS AND CONDITIONS OUTLINED IN THE T.P.D.E.S. PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY. CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING SWPPP AND REQUIRED PERMITS.
8. CONTRACTOR SHALL UTILIZE PREFABRICATED BENDS, FIELD FABRICATED BENDS OR RADIUS PIPE TO ACCOUNT FOR DEFLECTIONS IN STORM SEWER PIPE WHERE SHOWN HEREON.
9. PRECAST STRUCTURES MAY BE USED AT CONTRACTORS OPTION.
10. EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES TO BE CLEANED TO REMOVE ALL SILT AND DEBRIS.
11. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
12. ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR FROM INVERT IN TO INVERT OUT.
13. REINFORCED CONCRETE PIPE SHALL BE CLIII RUBBER GASKET

GRADING PLAN NOTES

GENERAL GRADING NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING STRUCTURES INCLUDING REMOVAL OF ANY EXISTING UTILITIES SERVING THE STRUCTURE. UTILITIES ARE TO BE REMOVED TO THE RIGHT-OF-WAY.
2. ALL CUT OR FILL SLOPES SHALL BE 3:1 UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE SMOOTH FIT AND CONTINUOUS GRADE.
4. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
5. ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPED 3:1 OR STEEPER.
6. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
7. STRIP THE TOP 6" OF TOPSOIL AND VEGETATION FROM PROPOSED PAVING AND SIDEWALKS. STRIPPED TOPSOIL MAY BE STOCKPILED AND USED FOR FILL IN LANDSCAPE AND LAWN AREAS PROVIDED IT IS FREE OF ROCKS AND TRASH.
8. FILL BELOW PROPOSED PAVEMENT AREAS MAY BE SELECT FILL WITH PLASTICITY INDEX RANGING FROM 5-17%.
9. ALL SIDEWALKS SHALL HAVE A MINIMUM SLOPE OF 1/4" PER FOOT. ELEVATIONS OF TOP OF CURB NEAR BUILDING ASSUME 1/4" PER FOOT SLOPE ACROSS COVERED ENTRY AND SIDEWALK.
10. EXPANSION JOINTS TO BE PLACED WHERE BUILDING FOUNDATION MEETS CONCRETE PAVEMENT OR SIDEWALK.
11. ALL REQUIRED SELECT FILL TO BE PLACED IN 6" LIFTS WITH COMPACTION TO 95% PROCTOR.
12. ALL CURB AND GUTTER TO BE BACKFILLED AND STABILIZED AS REQUIRED.
13. ALL GRADING TO BE ESTABLISHED TO PROVIDE SURFACE TO DRAINAGE.
14. ALL OBSTRUCTIONS BUILDINGS, POLES, WIRES, SLABS, FENCING, OR GUARD RAILS CONFLICTING WITH THE PROPOSED IMPROVEMENTS TO BE REMOVED, RELOCATED AND OR DISPOSED OF BY CONTRACTOR AS PER ENGINEERS WRITTEN INSTRUCTIONS.
15. HANDICAP SIGNAGE TO CONFORM WITH FEDERAL REGULATIONS (A.D.A.).
16. CONTRACTOR TO INCLUDE ALL STRIPING FOR PARKING LOTS, STREETS & ROADWAYS.
17. CIVIL ENGINEER WILL NOT PROVIDE CONSTRUCTION STAKING ON (ON-SITE) IMPROVEMENTS.
18. CONTRACTOR TO GRADE SWALES AS REQUIRED FROM SIDEWALK DRAINAGE OPENINGS, FIRE LANES, CULVERTS AND CURB SLOTS TO INLETS.
19. CONTRACTOR SHALL PROVIDE AND MAINTAIN EROSION AND SEDIMENT CONTROL THROUGHOUT THE DURATION OF THE CONSTRUCTION.
20. CONTRACTOR SHALL PROVIDE SWPPP AS PART OF PERMITTING PROCESS.

GENERAL NOTES

SCALE: NTS

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Firm Reg. No. F-9828

STATE OF TEXAS
MARIANO A. GARCIA
90956
LICENSED
PROFESSIONAL ENGINEER
P.E.
12/10/20

NO.	DATE	DESCRIPTION
		REVISIONS

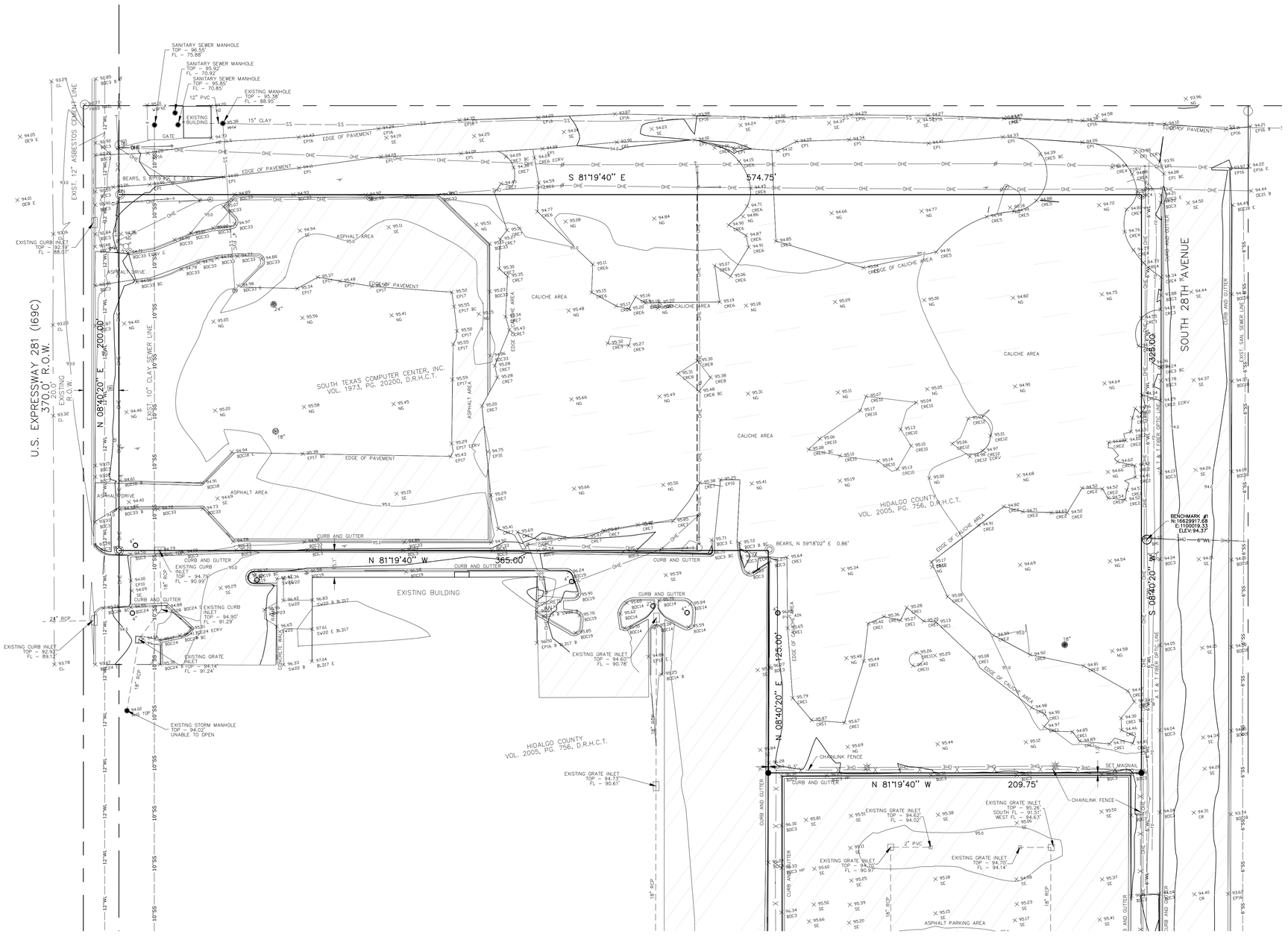
HIDALGO COUNTY PRECINCT No.4
NEW JUSTICE CENTER

HIDALGO COUNTY, TEXAS
1212 SOUTH 257H AVENUE,
EDINBURG, TEXAS 78542

PROJECT NO: 2018.19
DATE: 6/25/2020 5:02:17 PM
STARTING DATE:
CK BY: M.G. DWN BY: A.G.

GENERAL NOTES

C0.0



BENCHMARK INFORMATION

BM-1

DESCR: FOUND ROD, LOCATED ALONG WEST SIDE OF 28TH ST., APPROX. 10 FT. NORTH OF EXISTING FIRE HYDRANT.

N: 16629917.68
E: 1100019.33
Z: 94.37

LEGEND

- FND 1/2" IRON ROD UNLESS OTHERWISE NOTED
- SET 5/8" IRON ROD WITH PLASTIC CAP STAMPED "ROWSS PROP COR"
- SERVICE POLE ELECTRIC
- CLEAN OUT
- PVC PIPE
- MANHOLE
- LIGHT POLE
- POWER POLE
- GUY WIRE
- TEL. PEDESTAL
- SIGN
- WATER METER
- WATER VALVE
- FIRE HYDRANT
- IRR. VALVE
- FRESNO TREE
- TREE
- MESQUITE TREE

EXISTING CONDITION

SCALE: 1"=30'

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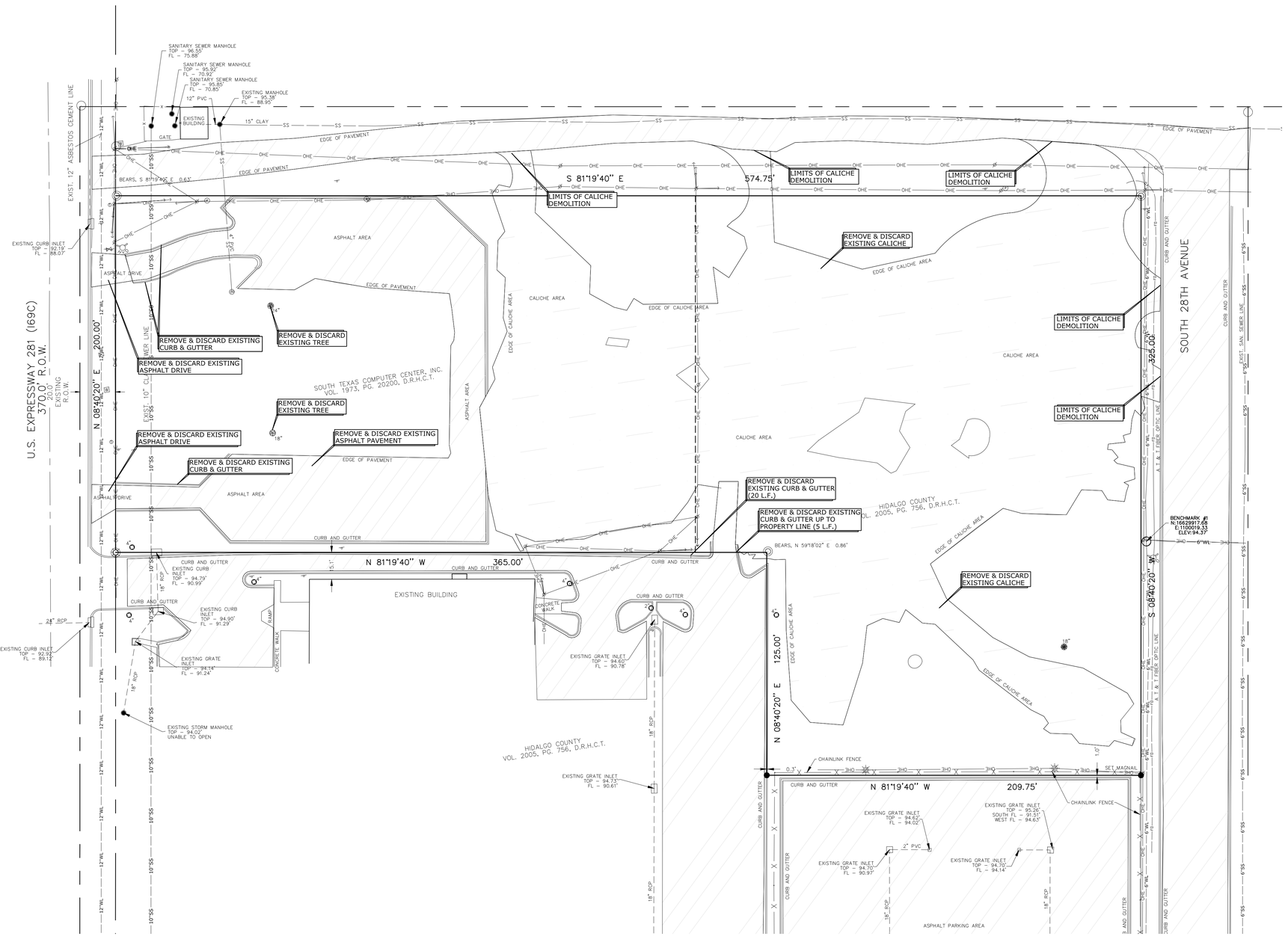
EXISTING CONDITION

C1.0



NOTES:

1. REFER TO ELECTRICAL PLANS FOR ELECTRICAL EQUIPMENT DEMOLITION.

LEGEND

- FND 1/2" IRON ROD UNLESS OTHERWISE NOTED
- SET 5/8" IRON ROD WITH PLASTIC CAP STAMPED "ROWSS PROP COR"
- SERVICE POLE ELECTRIC
- CLEAN OUT
- PVC PIPE
- MANHOLE
- LIGHT POLE
- POWER POLE
- GUY WIRE
- TEL. PEDESTAL
- SIGN
- WATER METER
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- FIRE HYDRANT
- IRR. VALVE
- FRESNO TREE
- TREE
- MESQUITE TREE

DEMOLITION PLAN

SCALE: 1"=30'

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DEMOLITION PLAN

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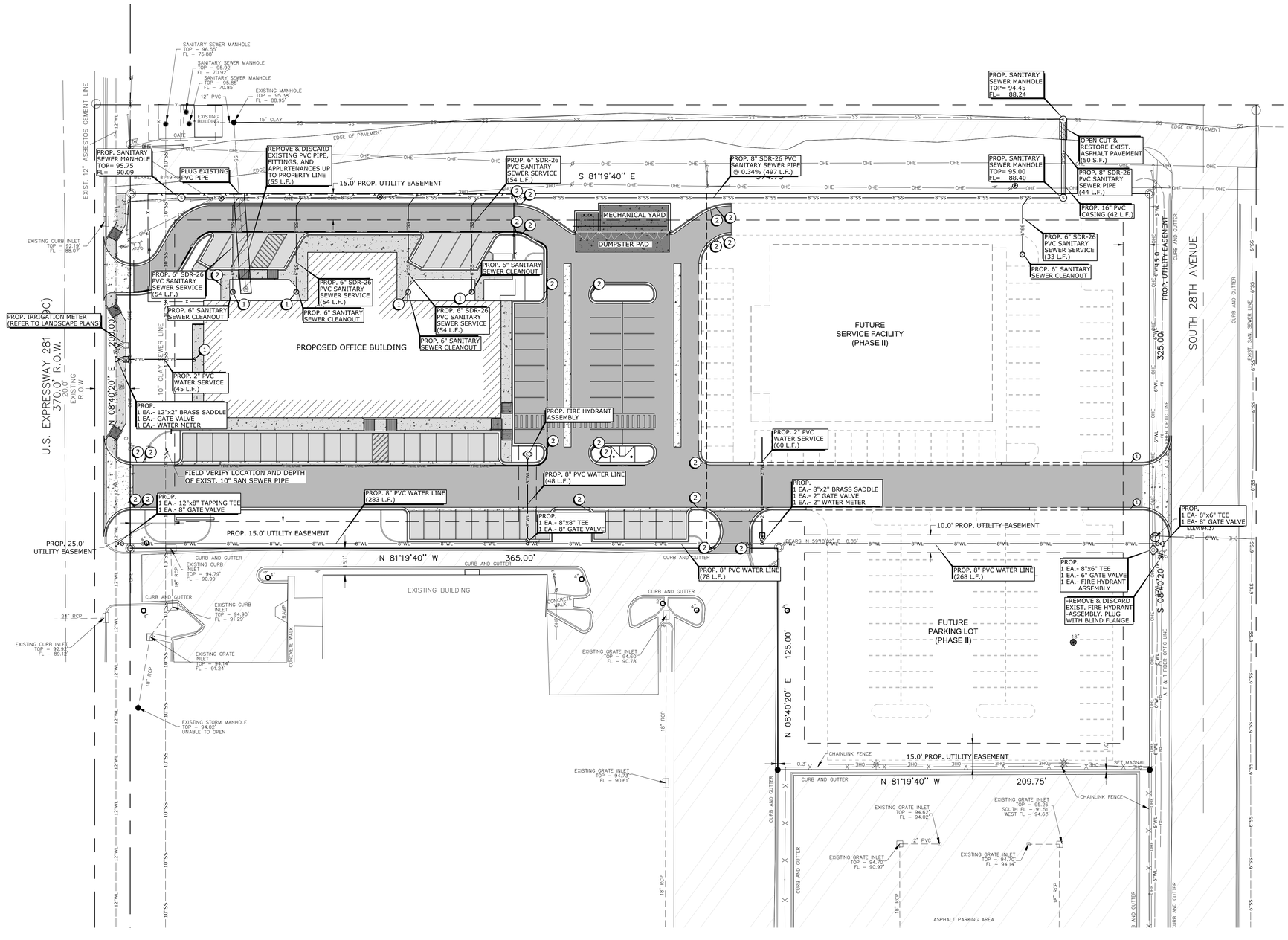

KEYED NOTES

1. REFER TO PLUMBING PLANS FOR CONTINUATION
2. PROVIDE CURB STAMPED WITH 'I' (MIN. 3" HIGH) FOR PROPOSED AND FUTURE IRRIGATION SLEEVES. REFER TO IRRIGATION PLANS FOR EXACT LOCATION

LEGEND

- WL — PROPOSED WATER LINE
- SS — PROPOSED SANITARY SEWER LINE

UTILITY LAYOUT

SCALE: 1"=30'

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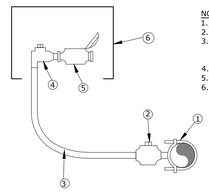
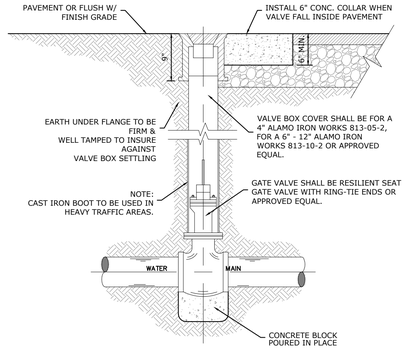
UTILITY LAYOUT

C3.0



NOTES:
1.) X" x 2" DOUBLE STRAP BRASS SADDLE
2.) 2" BALL CORP. MIPX C.T.S.
3.) 2" COPPER TUBING TYPE "K" (OPTION 1) OR 2" RIGID PIPE TYPE "K" (OPTION 1) OR POLYETHYELENE TUBING (OPTION 2)
4.) 2" BRASS ANGLE STOP
5.) WATER METER BY CITY OF EDINBURG
6.) LAGE C.I. METER BOX

2" METER SERVICE | 1



TYPICAL VALVE AND VALVE BOX | 3

NOTE:
1. ALL EXISTING/ACTIVE STREET CROSSINGS SHALL REQUIRE SAND BACKFILL OF ENTIRE TRENCH.
2. WHEN UTILITY LOCATED WITHIN CITY R.O.W., ALL BACK FILL IS SUBJECT TO INSPECTION AND APPROVAL BY THE CITY ENGINEER'S OFFICE

STANDARD PIPE BEDDING (MAIN & SERVICE LATERALS)

APPLICABLE BENEATH FUTURE/UNPAVED STREETS

A. SAND BEDDING PLACED BEFORE PIPE IS LAID UP TO FLOW LINE OF PIPE. (MIN. THICKNESS = 6")
B. SAND BACK FILL PLACED AFTER PIPE IS LAID FROM BOTTOM OF PIPE TO SPRING LINE OF PIPE. (4" LIFTS, MECH. TAMPED).
C. SAND BACK FILL PLACED FROM SPRING LINE OF PIPE TO 6" ABOVE TOP OF PIPE. (6" LIFTS, MECH. TAMPED).
D. FILL TRENCH W/SELECT BACKFILL, W/12" LIFTS COMPACT TO 90% STD. PROCTOR.

FOUNDATION PREPARATION (WELL POINTS, GRAVEL OR CEMENT STABILIZATION, OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE.

BACK FILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, MOISTENED AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY. THE THICKNESS OF EACH LOOSE LAYER SHALL BE SAND, APPROVED SITE SOIL OR OTHER APPROVED SUBSTITUTE.

STANDARD PIPE BEDDING (MAIN ONLY)

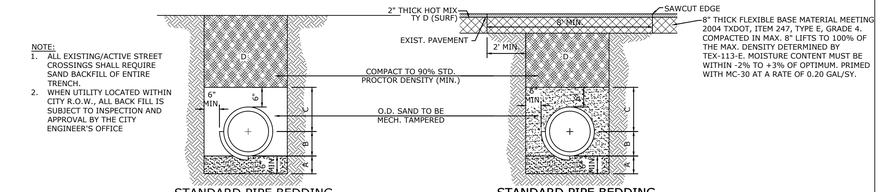
(PARALLEL WITHIN EXIST. STREET)

A. SAND BEDDING PLACED BEFORE PIPE IS LAID UP TO FLOW LINE OF PIPE. (MIN. THICKNESS = 6")
B. SAND BACK FILL PLACED AFTER PIPE IS LAID FROM BOTTOM OF PIPE TO SPRING LINE OF PIPE. (4" LIFTS, MECH. TAMPED).
C. SAND BACK FILL PLACED FROM SPRING LINE OF PIPE TO 6" ABOVE TOP OF PIPE. (6" LIFTS, MECH. TAMPED).
D. FILL TRENCH W/SELECT BACKFILL, W/12" LIFTS COMPACT TO 90% STD. PROCTOR.

FOUNDATION PREPARATION (WELL POINTS, GRAVEL OR CEMENT STABILIZATION, OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE.

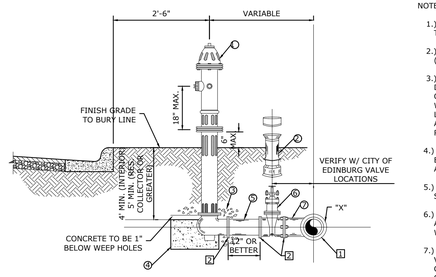
BACK FILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, MOISTENED AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY. THE THICKNESS OF EACH LOOSE LAYER SHALL BE SAND, APPROVED SITE SOIL OR OTHER APPROVED SUBSTITUTE.

STANDARD PIPE BEDDING | 4



8" THICK FLEXIBLE BASE MATERIAL MEETING 2004 TXDOT, ITEM 247, TYPE E, GRADE 4. COMPACTED IN MAX. 8" LIFTS TO 100% OF THE MAX. DENSITY DETERMINED BY TEX-113-E. MOISTURE CONTENT MUST BE WITHIN -2% TO +3% OF OPTIMUM. PRIMED WITH MC-30 AT A RATE OF 0.20 GAL/SY.

STANDARD FIRE HYDRANT INSTALLATION | 5



NOTE: FIRE HYDRANT TO BE PAINTED RED.

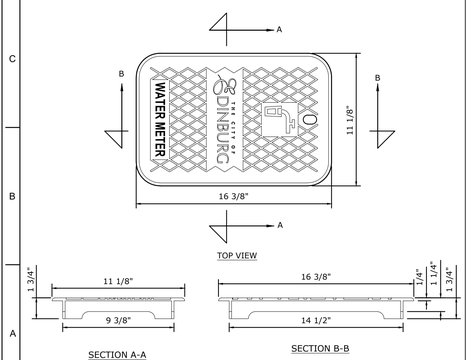
NOTE:
1.) OIL SHALL BE PLACED IN HYDRANT AT THE TIME OF INSTALLATION.
2.) PUMPER NOZZLE SHALL FACE ROADWAY. (5 1/2" N.S.T.)
3.) IN CERTAIN INSTANCES, WHER DISTANCES PERMITS, A PARALLEL TEE OR UNION-TITE 90° ELBOW W/RESTRAINING LUGS MAY BE USED IN LEIU OF A STANDARD TEE. FINAL APPROVAL BY THE CITY OF EDINBURG REQUIRED.
4.) IF AMERICAN DARLING IS USED MODEL B-84-B w/EPOXY COAT VALVE PLATE AND INTERIOR SHOE.
5.) TAPPING SLEEVES TO HAVE STAINLESS STEEL BOLTS AND NUTS.
6.) ALL VALVES, FITTINGS & HYDRANTS & ACCESSORIES TO BE GREASED WRAPPED IN PLASTIC.
7.) ALL VALVES, FITTINGS AND ACCESSORIES, VALVE BOXES, METER BOXES AND COVERS MUST BE APPROVED BY THE CITY OF EDINBURG.

FIRE HYDRANT INSTALLATION
CONSIST OF FIRE HYDRANT, VALVE AND VALVE BOX

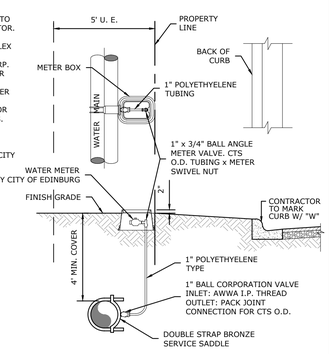
FIRE HYDRANT UNIT SHALL INCLUDE:
1.) FIRE HYDRANT w/ (4 1/2" PUMPER NOZZLE)
2.) VALVE BOX (DOMESTIC)
3.) 3 CU. FT. GRAVEL
4.) 3 CU. FT. CONCRETE 1" BELOW HYDRANT WEEP HOLES)
5.) 1' OR BETTER PVC SPOOLS
6.) 6" RESILIENT SEAT GATE VALVE (FLANGED X M.J.)
7.) X"x6" CAST IRON TEE (FLANGED X M.J.)
"x" WATER MAIN DIA.

[1] MECHANICAL JOINT
[2] FLANGE

CAST IRON METER COVER | 2



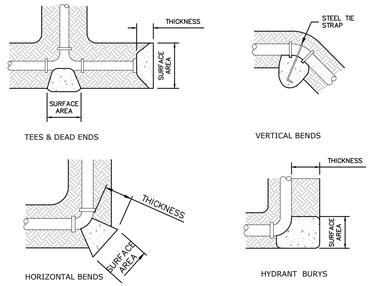
NOTES:
1 - METER AND METER BOX TO BE PROVIDED BY CONTRACTOR. (MULTI-FAMILY ONLY).
2 - FOR MORE THAN FOURPLEX OR FOUR COMMERCIAL BUILDING USE 4" BALL CORP. VALVES, 4" TYPE "K" COPPER AND 8" PVC CASING.
3 - 4' MIN. COVER FOR WATER MAINS
5' MIN. FOR ALL ARTERIAL OR GREATER CLASSIFICATIONS.
4 - COMMERCIAL INSTALLATIONS TO BE 2" SINGLE SERVICE UNLESS OTHERWISE APPROVED BY CITY ENGINEER.



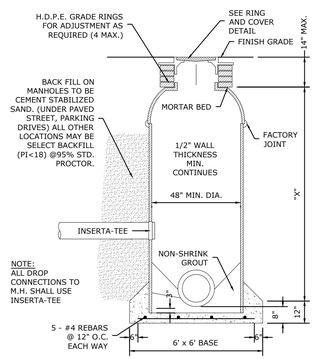
TYP. SINGLE WATER SERVICE CONNECTION | 6

THRUST BLOCK SIZE			
HORIZONTAL BENDS			
DIAMETER OF PIPE IN INCHES	SURFACE AREA SQ. FT.	THICKNESS IN INCHES	WEIGHT AT VERTICAL BENDS-LBS.
22-1/2° BENDS			
6 OR LESS	2	8	1,700
8	3	12	3,000
10	3.5	12	4,500
12	4	14	6,600
14	5	18	9,000
16	6	18	11,800
45° BEND			
6 OR LESS	4	12	3,200
8	5	14	5,800
10	6	18	9,000
12	7	18	13,000
14	8	24	17,000
16	11.5	24	23,200
90° BEND			
6 OR LESS	6	12	6,000
8	8	15	10,700
10	10	18	16,700
12	12	18	24,000
14	18	24	32,600
16	21	24	42,700
TEES & DEAD ENDS			
6 OR LESS	3	12	"
8	4	15	"
10	6	18	"
12	8.5	18	"
14	11.5	24	"
16	15	24	"

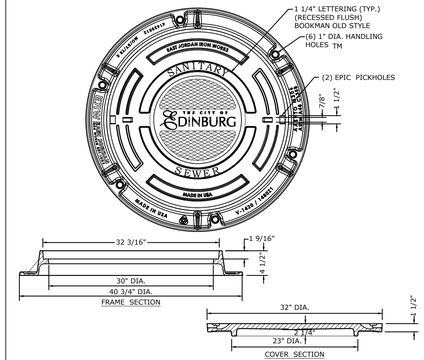
NOTE:
ALL VALUES SHOWN ARE MIN. FOR A HYDROSTATIC PRESSURE OF 150 P.S.I. AND A SOIL RESISTANCE OF 2,000 LBS. PER SQ./FT. WITH PIPELINE HAVING A MIN. OF 3 FT. OF COVER WITH CURB & GUTTER AND A 5 FT. MIN. WITHOUT CURB & GUTTER



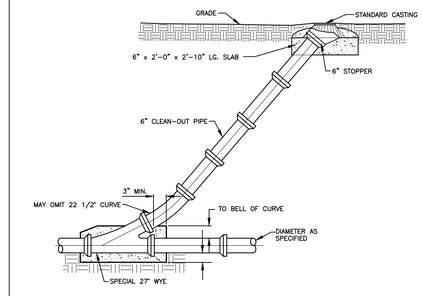
THRUST BLOCKS DETAILS | 7



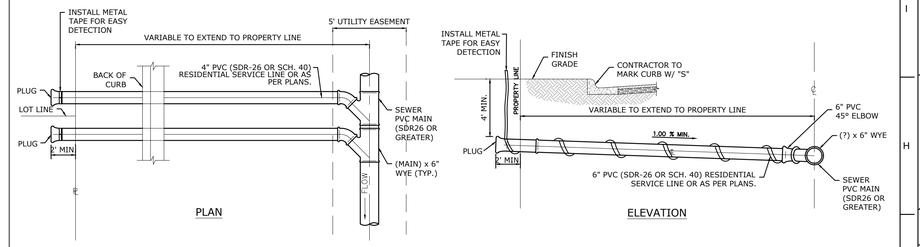
TYPICAL FIBERGLASS MANHOLE | 8



RING AND COVER CASTING DETAIL | 9



STANDARD CLEANOUT | 10



TYPICAL MULTIFAMILY AND COMMERCIAL SEWER SERVICE DETAIL | 11

NOT USED

NOT USED

NOT USED

NOT USED

NOT USED

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Firm Reg. No. F-9828

STATE OF TEXAS
MARIANO GARCIA
90956
LICENSED
PROFESSIONAL ENGINEER
12/10/20

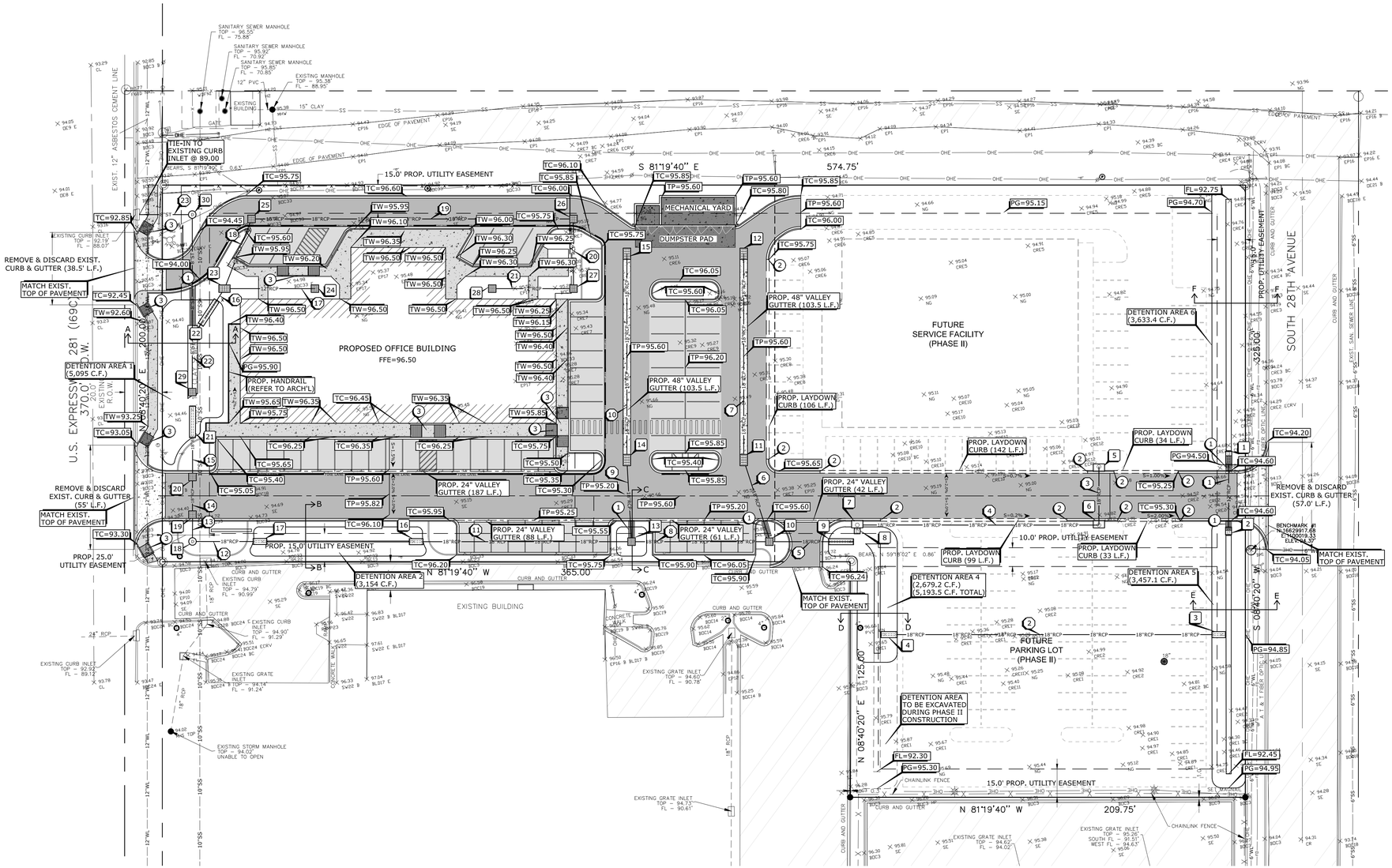
NO.	DATE	DESCRIPTION
		REVISIONS

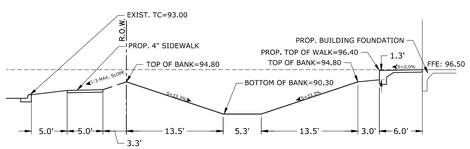
HIDALGO COUNTY PRECINCT No.4
NEW JUSTICE CENTER
HIDALGO COUNTY, TEXAS
1212 SOUTH 25TH AVENUE, EDINBURG, TEXAS 78542

PROJECT NO: 2018.19
DATE: 6/25/2020 5:02:17 PM
STARTING DATE:
CK BY: M.G. DWN BY: A.G.
UTILITY DETAILS

UTILITY DETAILS
SCALE: NTS

C3.1

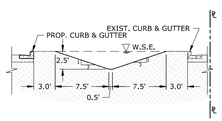




SECTION A-A
SCALE: 1"=10'

DETENTION AREA 1 VOLUME CALCULATIONS

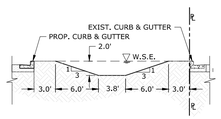
749.06 S.F. * 3 FT. =	2,247.2 C.F.
169.02 FT. * (3 FT.*9 FT./2) =	2,281.8 C.F.
DETENTION AREA 1 VOL.=	5,095.0 C.F.



SECTION B-B
SCALE: 1"=10'

DETENTION AREA 2 VOLUME CALCULATIONS

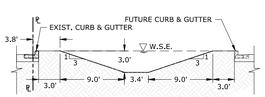
37.43 S.F. * 2.5 FT. =	93.6 C.F.
171.7 FT. * (2.5 FT.*7.5 FT./2) =	1,609.8 C.F.
DETENTION AREA 2 VOL.=	1,703.4 C.F.



SECTION C-C
SCALE: 1"=10'

DETENTION AREA 3 VOLUME CALCULATIONS

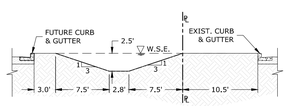
12.1 S.F. * 2 FT. =	24.2 C.F.
30.6 FT. * (2 FT.*6 FT./2) =	183.7 C.F.
DETENTION AREA 3 VOL.=	207.9 C.F.



SECTION D-D
SCALE: 1"=10'

DETENTION AREA 4 VOLUME CALCULATIONS

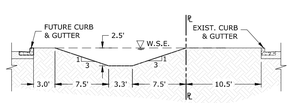
418.9 S.F. * 3 FT. =	1,256.8 C.F.
291.6 FT. * (3 FT.*9 FT./2) =	3,926.7 C.F.
DETENTION AREA 4 VOL.=	5,193.5 C.F.



SECTION E-E
SCALE: 1"=10'

DETENTION AREA 5 VOLUME CALCULATIONS

349.0 S.F. * 2.5 FT. =	872.5 C.F.
275.7 FT. * (2.5 FT.*7.5 FT./2) =	2,584.6 C.F.
DETENTION AREA 5 VOL.=	3,457.1 C.F.



SECTION F-F
SCALE: 1"=10'

DETENTION AREA 6 VOLUME CALCULATIONS

367.6 S.F. * 2.5 FT. =	919.0 C.F.
289.5 FT. * (2.5 FT.*7.5 FT./2) =	2,714.4 C.F.
DETENTION AREA 6 VOL.=	3,633.4 C.F.

STORM SEWER PIPE SCHEDULE

#	DESC.	SLOPE (%)	LENGTH (FT.)	#	DESC.	SLOPE (%)	LENGTH (FT.)
1	12" RCP	0.20	44.50	12	18" RCP	0.200	43.75
2	18" RCP	0.125	183.00	13	18" RCP	0.200	14.25
3	18" RCP	0.125	31.00	14	18" RCP	0.200	20.00
4	18" RCP	0.125	128.25	15	18" RCP	2.000	37.00
5	18" RCP	0.125	44.50	16	24" RCP	0.100	19.00
6	18" RCP	0.125	44.00	17	12" RCP	0.200	48.00
7	18" RCP	0.125	109.50	18	18" RCP	0.125	39.50
8	18" RCP	0.125	73.00	19	18" RCP	0.125	171.00
9	18" RCP	0.125	43.50	20	12"RCP	0.200	37.00
10	18" RCP	0.125	109.50	21	12" RCP	0.200	43.00
11	18" RCP	0.125	117.75	22	8" HDPE	0.300	94.50
				23	8" HDPE	0.300	28.00

STORM SEWER STRUCTURE

#	DESC.	TOP	FL	#	DESC.	TOP	FL
1	SAFETY END TREATMENT	N/A	92.50	16	SAFETY END TREATMENT	N/A	91.70
2	SAFETY END TREATMENT	N/A	92.40	17	SAFETY END TREATMENT	N/A	91.45
3	SAFETY END TREATMENT	N/A	92.32	18	STORM SEWER MANHOLE	94.75	91.35
4	SAFETY END TREATMENT	N/A	92.09	19	TY. 'F' INLET	94.5	91.30
5	TY. 'A' CURB INLET	95.65	92.40	20	TY. 'F' INLET	94.5	91.25
6	TY. 'A' CURB INLET	96.15	92.36	21	SAFETY END TREATMENT	N/A	90.50
7	TY. 'A' CURB INLET	95.95	92.20	22	SAFETY END TREATMENT	N/A	90.75
8	SAFETY END TREATMENT	N/A	92.15	23	TY. 'C-C' GRATE INLET	95.4	90.77
9	SAFETY END TREATMENT	N/A	92.00	24	TY. 'C' GRATE INLET	95.75	90.87
10	TY. 'C' GRATE INLET	93.95	91.95	25	TY. 'C' GRATE INLET	95.1	90.82
11	TY. 'C-C' GRATE INLET	94.6	92.00	26	TY. 'C' GRATE INLET	95.2	91.05
12	TY. 'C-C' GRATE INLET	95.05	92.15	27	TY. 'C' GRATE INLET	95.75	91.12
13	TY. 'C' GRATE INLET	94.65	91.85	28	TY. 'C' GRATE INLET	95.75	91.21
14	TY. 'C-C' GRATE INLET	94.7	91.90	29	TY. 'C' GRATE INLET	90.25	88.60
15	TY. 'C-C' GRATE INLET	95.05	92.05	30	STORM SEWER MANHOLE	94.5	88.32

DETENTION VOLUMES

REQUIRED VOLUME: 19,259 C.F.

PROVIDED VOLUME: 19,290 C.F.

KEYED NOTES

1. PROP. CONCRETE SPILLWAY
2. PROVIDE 2' TRANSITION TO LAYDOWN CURB
3. PROP. ADA RAMP
#. PROP. STORM SEWER STRUCTURE
#. PROP. STORM SEWER PIPE

LEGEND

- NEW LIGHT DUTY ASPHALT PAVEMENT
- NEW HEAVY DUTY ASPHALT PAVEMENT
- NEW CONCRETE SIDEWALK
- NEW CONCRETE DUMPSTER PAD
- NEW CONCRETE PAVEMENT
- TC=100.00 NEW TOP OF CURB ELEVATION
- TW=100.00 NEW TOP OF WALK ELEVATION
- TP=100.00 NEW TOP OF PAVEMENT ELEVATION
- TOP=100.00 NEW TOP OF INLET ELEVATION
- FL=100.00 NEW FLOW LINE ELEVATION
- PG=100.00 NEW PROPOSED GRADE ELEVATION
- NEW DIRECTION OF RUN-OFF
- ST PROPOSED STORM SEWER LINE

PAVING & GRADING LAYOUT

SCALE: 1"=30'

rofa architects
Rike • Ogden • Figueroa • Allex

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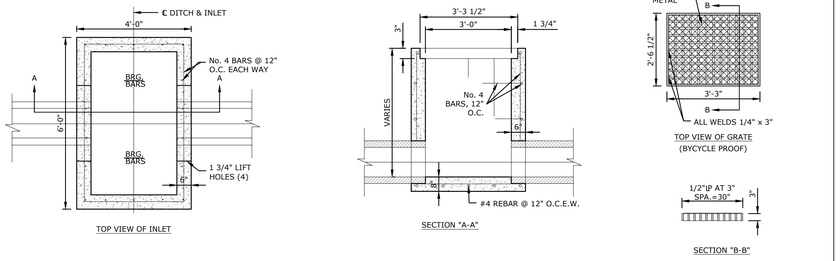
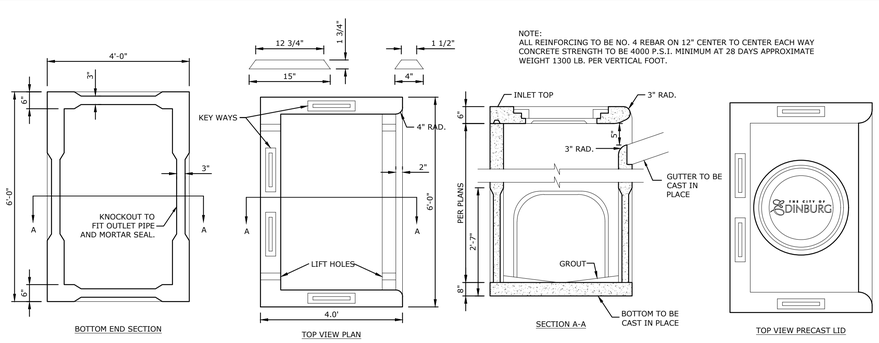
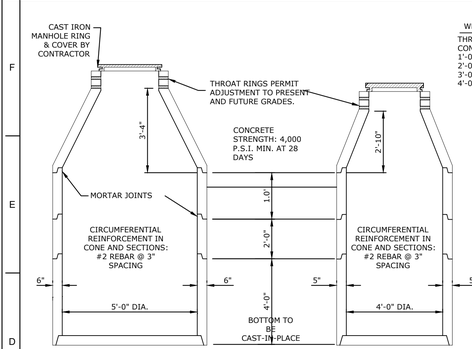
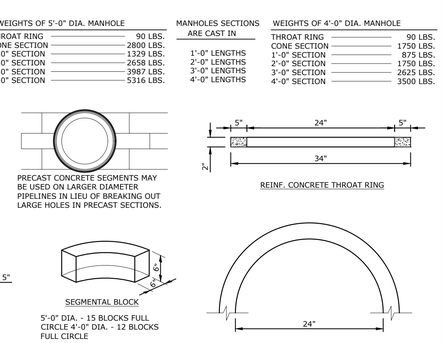


TYPE "C-C" GRATED INLET | 2

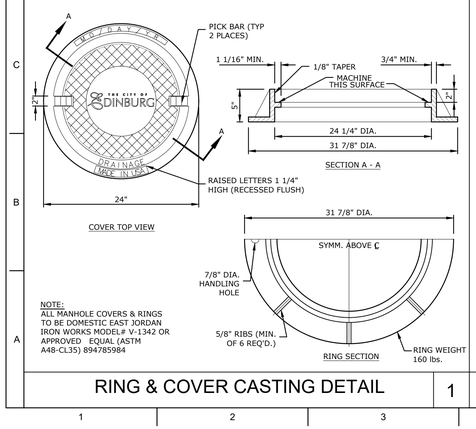


PRECAST TYPE "A" INLET | 3

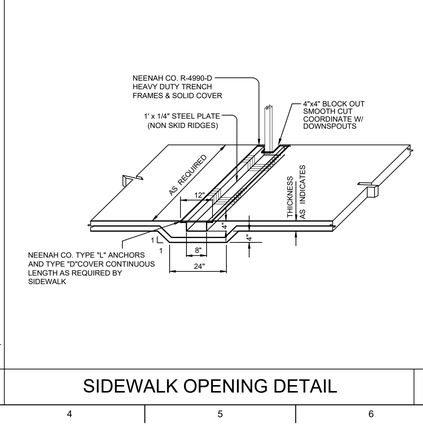




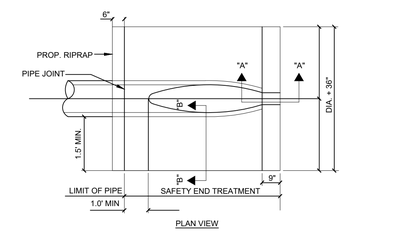
PRECAST CONCRETE MANHOLES - DETAILS | 4



RING & COVER CASTING DETAIL | 1

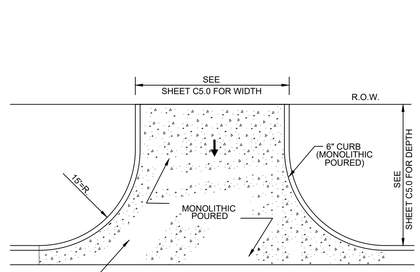


SIDEWALK OPENING DETAIL | 5



PIPE DIA. (IN.)	"L"			
	3:1	4:1	5:1	6:1
12"	2'-9"	3'-8"	4'-7"	5'-8"
18"	3'-6"	4'-8"	5'-10"	7'-0"
24"	5'-4"	6'-10"	8'-6"	10'-8"
30"	6'-10"	9'-4"	11'-6"	13'-7"

SAFETY END TREATMENT | 6

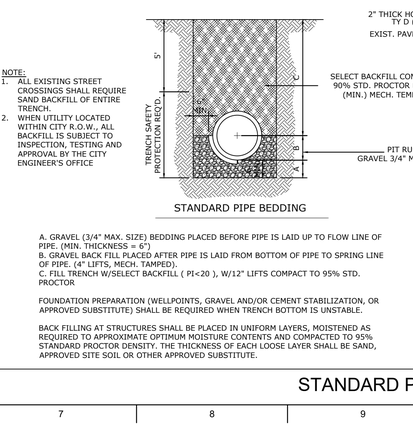


CONCRETE DRIVEWAY APRON | 7

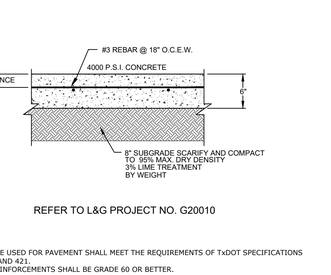
REFER TO L&G PROJECT NO. G20010

NOTES:
1. CONCRETE USED FOR PAVEMENT SHALL MEET THE REQUIREMENTS OF TxDOT SPECIFICATIONS ITEMS 360 AND 421.
2. STEEL REINFORCEMENTS SHALL BE GRADE 60 OR BETTER.
3. EXISTING SUBGRADE LAYER BENEATH THE SUBBASE SHALL BE COMPACTED AND MOISTURE CONDITIONED TO A MINIMUM 95 PERCENT OF THE MAXIMUM DRY DENSITY (ASTM D698 OR TEX-114-E) AT MOISTURE CONTENTS RANGING FROM PLUS 1 (+1) AND PLUS3 (+3) PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT.
4. THE SUBGRADE SHALL BE TREATED THROUGH INCORPORATION OF A MINIMUM OF THREE (3) PERCENT LIME BY WEIGHT. LIME TREATMENT SHALL BE IN COMPLIANCE WITH ALL APPLICABLE SECTIONS OF TxDOT ITEM 260 SPECIFICATIONS.

DUMPSTER PAD DETAIL | 9

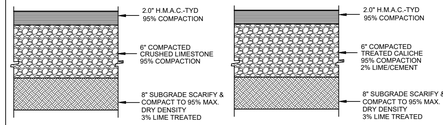


STANDARD PIPE BEDDING | 10



CONCRETE JOINTS | 8

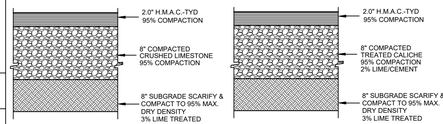
SIDEWALK/H.M.A.C. HEADER | 11



REFER TO L&G PROJECT NO. G20010

NOTES:
1. ASPHALT CONCRETE PAVEMENT SURFACE SHALL MEET THE REQUIREMENTS OF THE CURRENT TxDOT 2014 SPECIFICATION ITEM 340 FOR TYPE D HOT MIX ASPHALTIC CONCRETE. THE GRADE OF THE ASPHALT CEMENT SHOULD CONTAIN A MINIMUM PG 64-22 ASPHALT BINDER.
2. OPTION A FLEXIBLE BASE MATERIAL SHALL BE CRUSHED LIMESTONE MEETING THE REQUIREMENTS OF TxDOT 2014 SPECIFICATION ITEM 247 TYPE A, GRADE 1 AS NOTED IN L&G GEOTECHNICAL PROJECT NUMBER G20010.
3. OPTION B FLEXIBLE BASE MATERIAL SHALL BE TREATED CALICHE MEETING REQUIREMENTS OF TxDOT 2014 SPECIFICATION ITEM 247 TYPE E, GRADE 4, AS APPROVED BY THE ENGINEER. TREATED CALICHE MATERIAL SHALL MEET ALL REQUIREMENTS SET FORTH BY L&G GEOTECHNICAL PROJECT NUMBER G20010 AND CONTAIN A MINIMUM OF TWO (2) PERCENT LIME OR PORTLAND CEMENT BY WEIGHT. LIME AND CEMENT TREATMENTS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE SECTIONS OF TxDOT ITEM 260 & 275 SPECIFICATIONS.
4. EXISTING SUBGRADE LAYER BENEATH THE SUBBASE SHALL BE COMPACTED AND MOISTURE CONDITIONED TO A MINIMUM 95 PERCENT OF THE MAXIMUM DRY DENSITY (ASTM D698 OR TEX-114-E) AT MOISTURE CONTENTS RANGING FROM PLUS 1 (+1) AND PLUS3 (+3) PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT.
5. THE SUBGRADE SHALL BE TREATED THROUGH INCORPORATION OF A MINIMUM OF THREE (3) PERCENT LIME BY WEIGHT. LIME TREATMENT SHALL BE IN COMPLIANCE WITH ALL APPLICABLE SECTIONS OF TxDOT ITEM 260 SPECIFICATIONS.

LIGHT DUTY H.M.A.C. | 12



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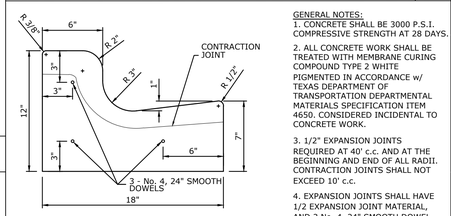
HEAVY DUTY H.M.A.C. | 13



GENERAL NOTES:
1. CONCRETE SHALL BE 3000 P.S.I. COMPRESSIVE STRENGTH AT 28 DAYS.
2. ALL CONCRETE WORK SHALL BE TREATED WITH MEMBRANE CURING COMPOUND TYPE 2 WHITE PIGMENTED IN ACCORDANCE w/ TEXAS DEPARTMENT OF TRANSPORTATION DEPARTMENTAL MATERIALS SPECIFICATION ITEM 4650. CONSIDERED INCIDENTAL TO CONCRETE WORK.
3. 1/2" EXPANSION JOINTS REQUIRED AT 40' c.c. AND AT THE BEGINNING AND END OF ALL RADII. CONTRACTION JOINTS SHALL NOT EXCEED 10' c.c.
4. EXPANSION JOINTS SHALL HAVE 1/2 EXPANSION JOINT MATERIAL, AND 3 No. 4, 24" SMOOTH DOWEL BARS COATED TO PREVENT BOND.

CURB & GUTTER DETAIL | 13

PAVING & GRADING DETAILS

SCALE: NTS

rofa architects
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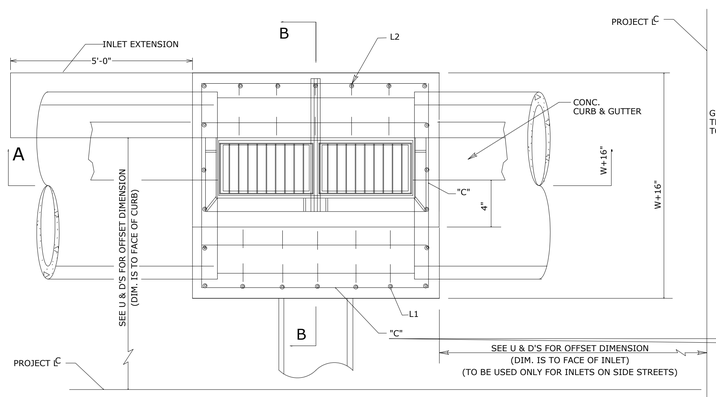
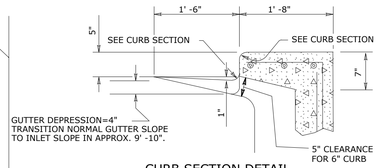
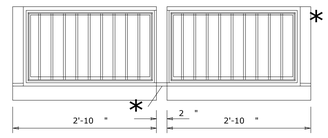


PLAN VIEW

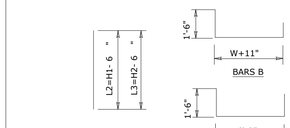


CURB SECTION DETAIL

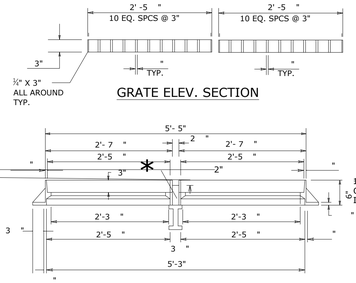


FRAMES AND GRATE TOP VIEW
TO BE SUBSIDIARY TO INLET ITEM

* CONTRACTOR IS TO LEAVE THE GAP OPEN UNTIL THE FINAL LIFT OF HOT MIX IS LAID FOR DRAINAGE. THEN THE CONTRACTOR IS TO FILL IN THE GAP WITH EPOXY & MORTAR AS PER ITEM 421. THE MORTAR IS SUBSIDIARY TO ITEM 465. PROVIDE A 4" X 2 ½"X ¾" STEEL SPACER PLATE TO BE WELDED TO THE BOTTOM FRONT OF ONE OF THE FRAMES.

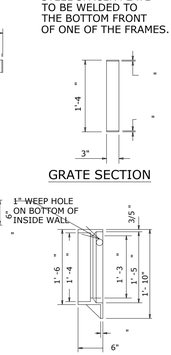


REINFORCING STEEL DETAILS



GRATE ELEV. SECTION

FRAME ELEVATION



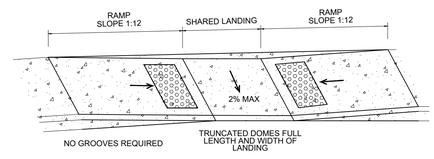
GRATE SECTION

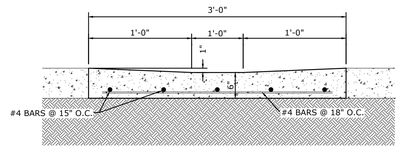
FRAME SECTION

1"-WEEP HOLE ON BOTTOM OF INSIDE WALL

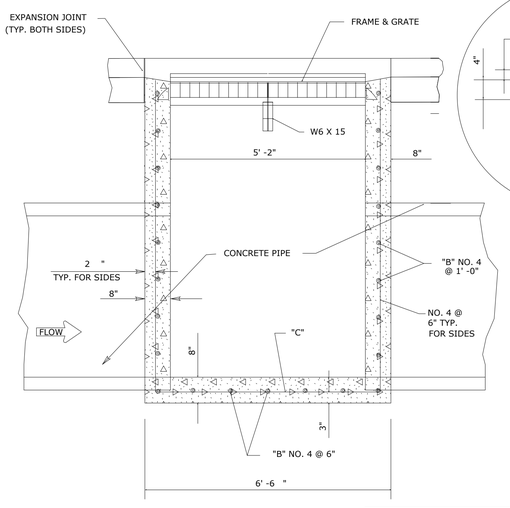
GENERAL NOTES:
1. WHEELCHAIR RAMPS ARE TO BE LOCATED AT CROSSWALK AREAS DESIGNATED ON THE PLAN.
2. SURFACE TEXTURE OF WHEELCHAIR RAMP SHALL BE OBTAINED BY TOOL FINISH TRAVERSE TO THE SLOPE OF THE RAMP.
3. SLOPES SHALL BE UNIFORM WITH NO ABRUPT CHANGES IN GRADES, NORMAL GUTTER LINE PROFILE SHOULD BE MAINTAINED THROUGH THE AREA OF THE RAMP.
4. WHEELCHAIR RAMPS SHALL BE MEASURED AND PAINTED AS CONCRETE SIDEWALK AND CONCRETE CURB AND GUTTER, AS APPLICABLE.
5. CONCRETE RAMP SHALL BE 5 SACK MIX AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 P.S.I.
6. ALL CONCRETE WORK SHALL BE TREATED WITH THE MEMBRANECURING COMPOUND AFTER SURFACE TEXTURE HAS BEEN COMPLETED.
7. 6" X 6" NO. 6 WIRE MESH SHALL BE USED FOR REINFORCING.
8. ALL RAMPS SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, DARK VERSUS LIGHT. THE MATERIAL USED TO PROVIDE THE CONTRAST SHALL BE AN INTEGRAL PART OF THE RAMP.

SIDEWALK RAMP | 4

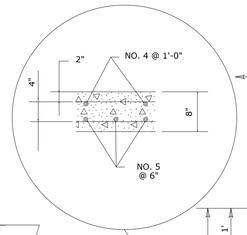


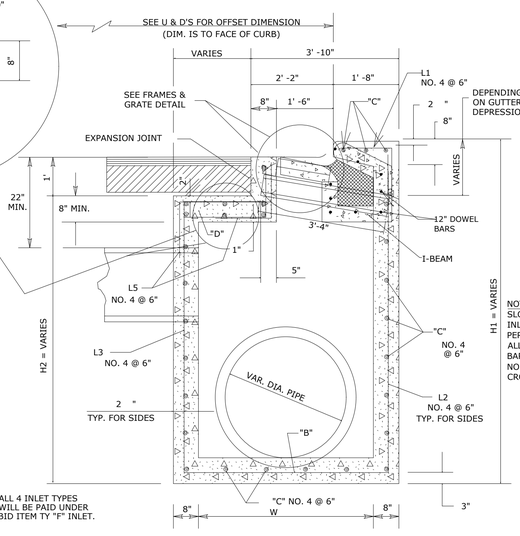


TYPICAL VALLEY GUTTER SECTION | 5



SECTION A-A



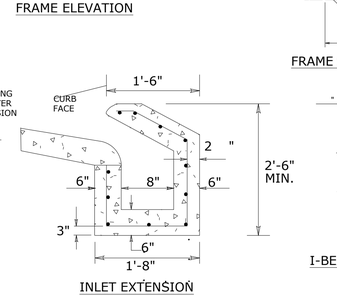


SECTION B-B

INLET TYPE	W	MAX PIPE SIZE ALLOW (DIA.)
F	3'-0"	24"
F-1	4'-0"	36"
F-2	5'-0"	48"
F-3	6'-0"	60"

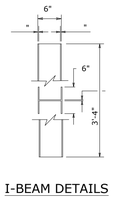
* ALL 4 INLET TYPES WILL BE PAID UNDER BID ITEM TY "F" INLET.

TYPE "F" INLET DETAILS | 1



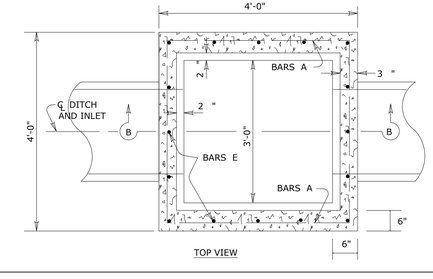
INLET EXTENSION

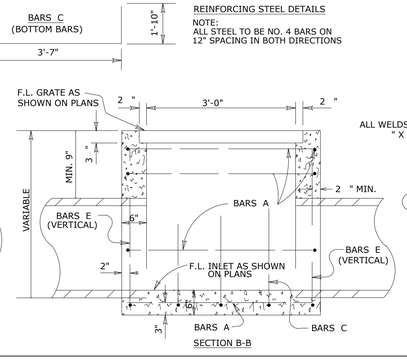
NOTE:
SLOPE BOTTOM OF INLET EXTENSION ½" PER FT. TOWARD INLET. ALL STEEL TO BE NO. 4 BARS ON 12" SPACING NORMAL TO THE CROSS SECTION.



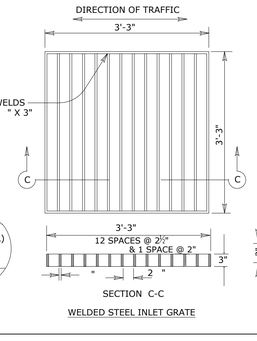
I-BEAM DETAILS
W 6 X 15

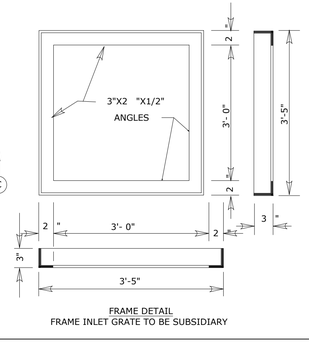
NOTE: ALL REINFORCEMENT BARS SHALL BE GRADE 60.



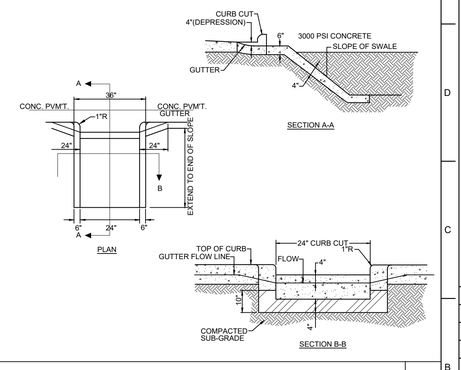


SECTION B-B





GRATE INLET TY "C" DETAIL | 2



SPILLWAY DETAIL | 6

GENERAL NOTES:
TY "C" INLET TO BE USED FOR PIPES LESS OR EQUAL TO 24"

REINFORCING STEEL DETAILS
NOTE:
ALL STEEL TO BE NO. 4 BARS ON 12" SPACING IN BOTH DIRECTIONS

PAVING & GRADING DETAILS CONT.

SCALE: NTS

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STATE OF TEXAS
MARIANO GARCIA
90956
LICENSED
PROFESSIONAL ENGINEER
12/10/20

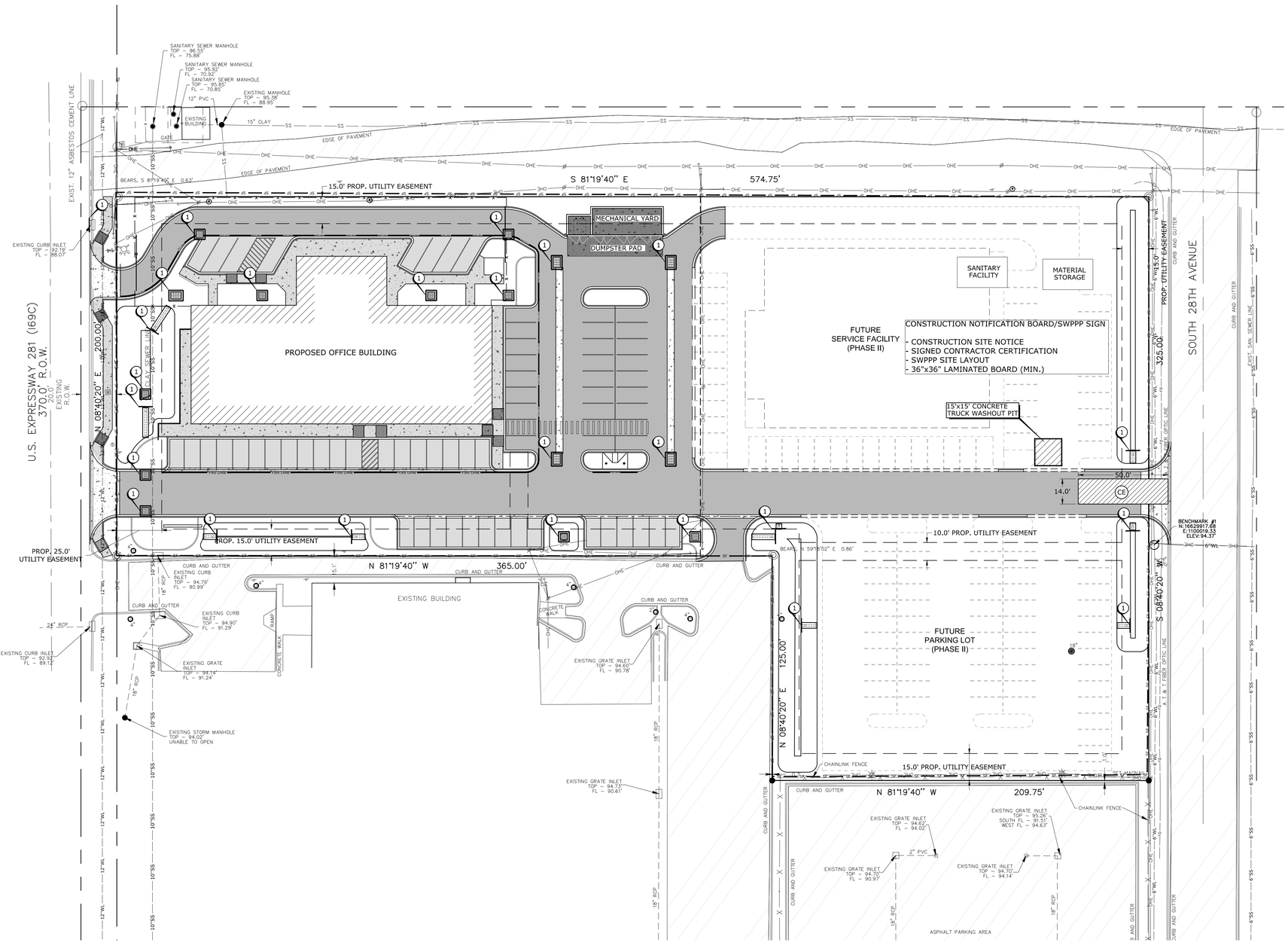
NO.	DATE	DESCRIPTION
		REVISIONS

HIDALGO COUNTY PRECINCT No.4
NEW JUSTICE CENTER
HIDALGO COUNTY, TEXAS
EDINBURG, TEXAS 78542
1212 SOUTH 25TH AVENUE.

PROJECT NO:	2018.19
DATE:	6/25/2020 5:02:17 PM
STARTING DATE:	
CK BY: M.G.	DWN BY: A.G.

PAVING & GRADING DETAILS CONT.

C4.2



KEYED NOTES

1	PROVIDE INLET PROTECTION IMMEDIATELY FOLLOWING INSTALLATION.

LEGEND

SF	SEDIMENT CONTROL FENCE
CE	CONSTRUCTION ENTRANCE

N
W MGE E
S

EROSION & SEDIMENT CONTROL PLAN

SCALE: 1"=30'

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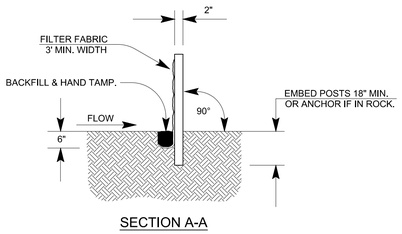
EROSION & SEDIMENT CONTROL PLAN

C5.0



SECTION A-A

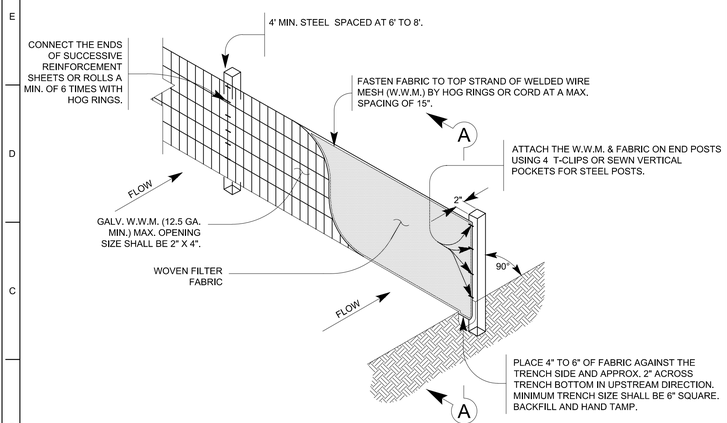
SEDIMENT CONTROL FENCE USAGE GUIDELINES

A SEDIMENT CONTROL FENCE MAY BE CONSTRUCTED NEAR THE DOWNSTREAM PERIMETER OF A DISTURBED AREA ALONG A CONTOUR TO INTERCEPT SEDIMENT FROM OVERLAND RUNOFF. A 2-YEAR STORM FREQUENCY MAY BE USED TO CALCULATE THE FLOW RATE TO BE FILTERED.

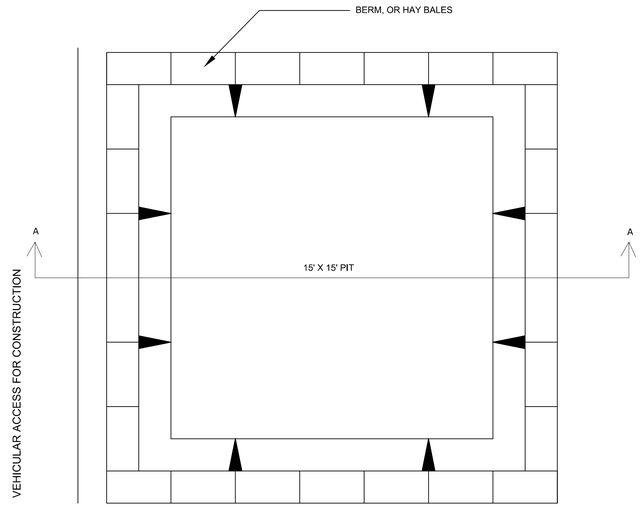
SEDIMENT CONTROL FENCE SHOULD BE SIZED TO FILTER A MAX. FLOW THROUGH RATE OF 100 GPM/FT . SEDIMENT CONTROL FENCE IS NOT RECOMMENDED TO CONTROL EROSION FROM A DRAINAGE AREA LARGER THAN TWO ACRES.

GENERAL NOTES :

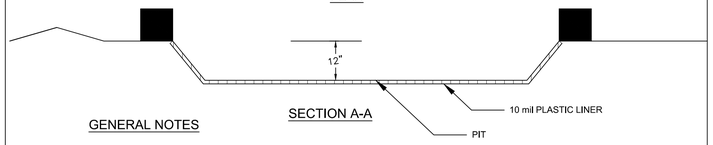
1. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.



TEMPORARY SEDIMENT CONTROL FENCE | 1



PLAN

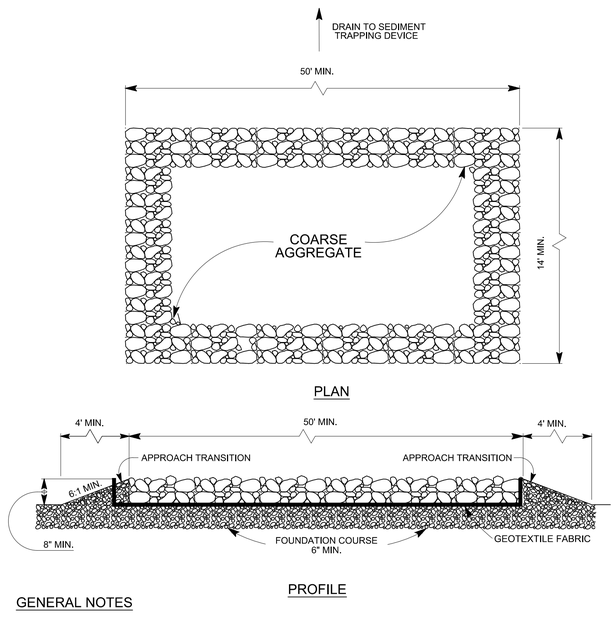


SECTION A-A

GENERAL NOTES

1. DETAIL ABOVE ILLUSTRATES MINIMUM DIMENSIONS. PIT CAN BE INCREASED IN SIZE DEPENDING ON EXPECTED FREQUENCY OF USE.
2. WASHOUT PIT SHALL BE LOCATED IN AN AREA EASILY ACCESSIBLE TO CONSTRUCTION TRAFFIC.
3. WASHOUT PIT SHALL NOT BE LOCATED IN AREAS SUBJECT TO INDUNATION FROM STORM WATER RUNOFF.

CONCRETE TRUCK WASHOUT PIT | 2

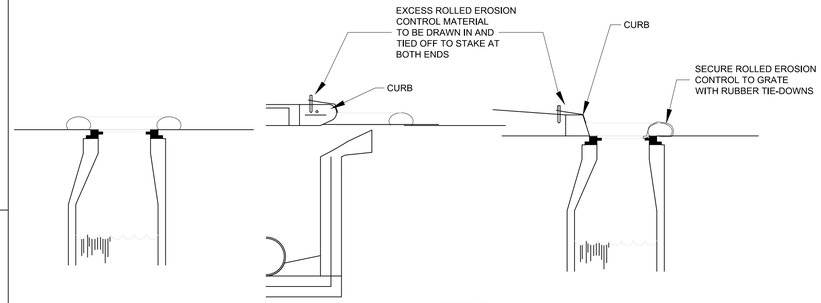


PLAN

PROFILE

GENERAL NOTES

CONSTRUCTION EXIT | 3



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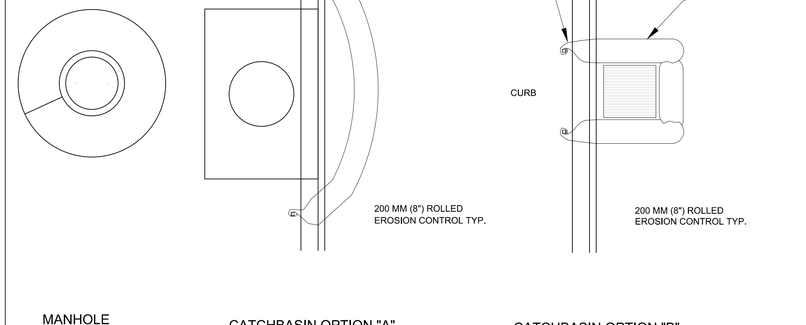

MANHOLE

CATCHBASIN OPTION "A"

CATCHBASIN OPTION "B"
(FOR USE IN TIGHTER AREAS, NARROW ROADS, ETC.)

PLAN

NOTES:
1. DO NOT SCALE DRAWINGS.
2. SECURE ROLLED EROSION CONTROL PRODUCT TO GROUND AT EACH END.

EROSION CONTROL LOG | 4

EROSION & SEDIMENT CONTROL DETAILS

SCALE: NTS

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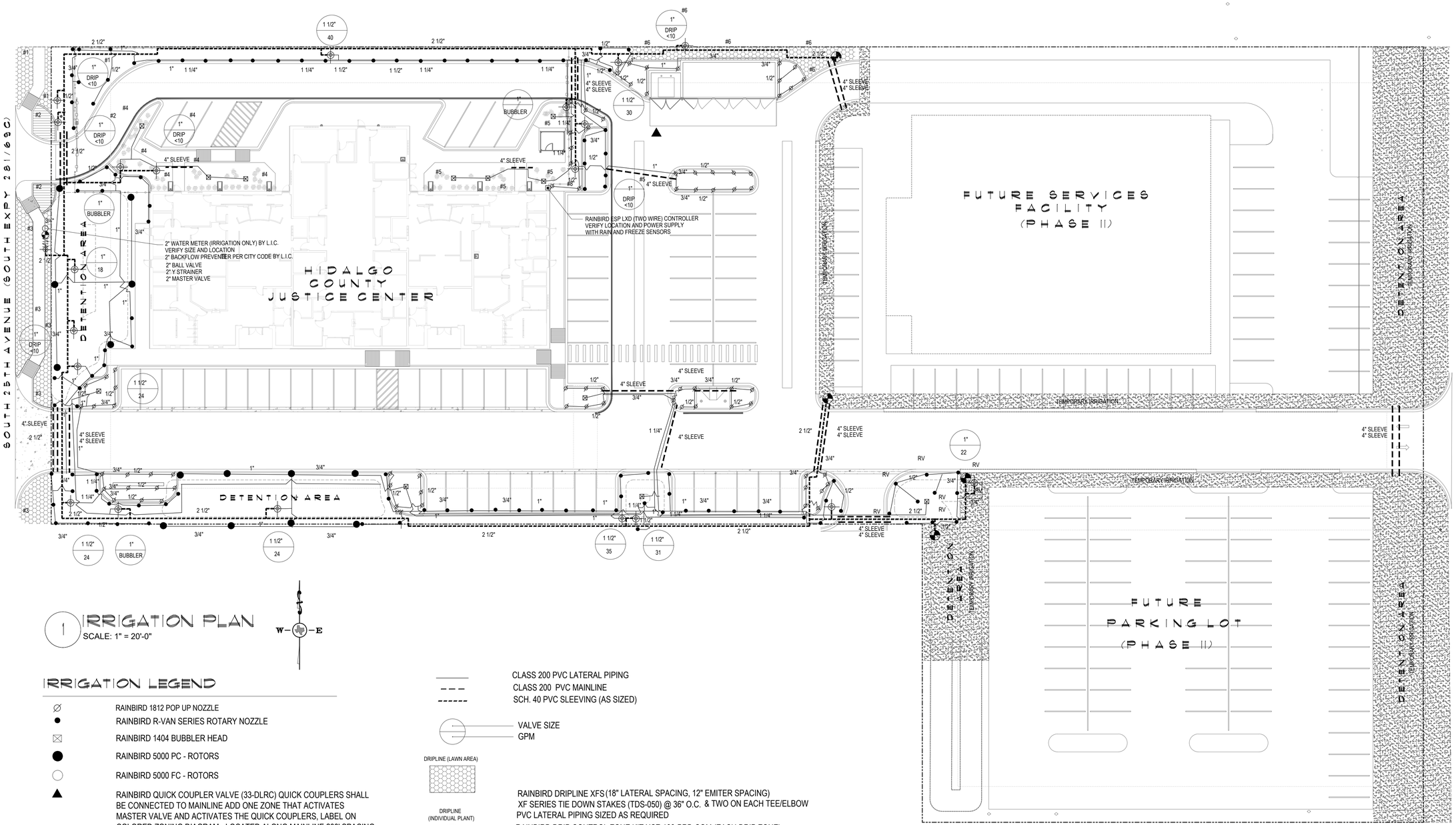
EROSION & SEDIMENT CONTROL DETAILS

C5.1



1 IRRIGATION PLAN

SCALE: 1" = 20'-0"

W — E

IRRIGATION LEGEND

- RAINBIRD 1812 POP UP NOZZLE
- RAINBIRD R-VAN SERIES ROTARY NOZZLE
- RAINBIRD 1404 BUBBLER HEAD
- RAINBIRD 5000 PC - ROTORS
- RAINBIRD 5000 FC - ROTORS
- RAINBIRD QUICK COUPLER VALVE (33-DLRC) QUICK COUPLERS SHALL BE CONNECTED TO MAINLINE ADD ONE ZONE THAT ACTIVATES MASTER VALVE AND ACTIVATES THE QUICK COUPLERS, LABEL ON COLORED ZONING DIAGRAM - LOCATED ALONG MAINLINE 200' SPACING
- RAINBIRD PEB SERIES ELECTRIC VALVE
- CONTROLLER (ESP-LXD TWO WIRE) WITH RAINBIRD RAIN/FREEZE SENSORS
- WATER METER (AS SIZED)
- BACKFLOW PREVENTER (AS SIZED)
- ISOLATION VALVE

- CLASS 200 PVC LATERAL PIPING
- CLASS 200 PVC MAINLINE
- SCH. 40 PVC SLEEVING (AS SIZED)

VALVE SIZE
GPM

DRIPLINE (LAWN AREA)

DRIPLINE (INDIVIDUAL PLANT)

TEMPORARY IRRIGATION

XXX
RAIN

RAINBIRD DRIPLINE XFS (18" LATERAL SPACING, 12" EMITER SPACING)
XF SERIES TIE DOWN STAKES (TDS-050) @ 36" O.C. & TWO ON EACH TEE/ELBOW
PVC LATERAL PIPING SIZED AS REQUIRED
RAINBIRD DRIP CONTROL ZONE KIT XCZ-100-PRB-COM (EACH DRIP ZONE)
1" BALL VALVE WITH REGULATED PRESSURE AND 200 MESH FILTRATION
(1) DRIP SYSTEM OPERATION INDICATOR (OPERIND) PER IRRIGATION ZONE

INSTALL ALL EQUIPMENT ACCORDING TO MANUFACTURERS SPECIFICATIONS
ALL VALVE BOXES SHALL BE RAINBIRD VB-STD OR APPROVED EQUAL
ALL VALVE BOXES SHALL HAVE FILTER FABRIC AND 4" OF GRAVEL AT BASE

BUBBLER PIPING CHART

NUMBER OF BUBBLERS	SIZE OF PIPE
1 - 5	½"
6 - 10	¾"
11 - 20	1"
21 - 30	1 ¼"
31 - 40	1 ½"

SLEEVING NOTES

1. Irrigation Contractor shall supply and install sleeves and conduits at twenty-four (24") inches below finish grade of the top of pavement. Bore as required.
2. Irrigation Contractor shall extend sleeves one (1') foot beyond edge of all pavement.
3. Irrigation Contractor shall cap pipe ends using PVC caps.
4. All sleeves shall be Schedule 40 PVC pipe.

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CONSULTANTS:

STATE OF TEXAS
KENNETH S. PRICE
85151
LICENSED PROFESSIONAL ENGINEER
12/10/20

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		REVISIONS

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1212 SOUTH 25TH AVENUE, EDINBURG, TEXAS 78542

PROJECT NO:	2018.19
DATE:	12-10-20
STARTING DATE:	
CK BY: SSP	DWN BY:

IRRIGATION PLAN

L1.01

IRRIGATION LEGEND

- RV — RAINBIRD R-VAN SERIES ROTARY NOZZLE
- RAINBIRD 1404 BUBBLER HEAD
- RAINBIRD 5000 PC - ROTORS
- RAINBIRD 5000 FC - ROTORS
- RAINBIRD QUICK COUPLER VALVE (33-DLRC) QUICK COUPLERS SHALL BE CONNECTED TO MAINLINE ADD ONE ZONE THAT ACTIVATES MASTER VALVE AND ACTIVATES THE QUICK COUPLERS, LABEL ON COLORED ZONING DIAGRAM - LOCATED ALONG MAINLINE 200' SPACING
- RAINBIRD PEB SERIES ELECTRIC VALVE
- CONTROLLER (ESP-LXD WITH RAIN/FREEZE SENSOR)
- WATER METER (AS SIZED)
- BACKFLOW PREVENTER (AS SIZED)
- CLASS 200 PVC LATERAL PIPING
- CLASS 200 PVC MAINLINE
- SCH. 40 PVC SLEEVING (AS SIZED)
- VALVE SIZE / GPM
- ISOLATION VALVE

DRIPLINE (LAWN AREA)

RAINBIRD DRIPLINE XFS (18" LATERAL SPACING, 12" EMITER SPACING) XF SERIES TIE DOWN STAKES (TDS-050) @ 36" O.C. & TWO ON EACH TEE/ELBOW PVC LATERAL PIPING SIZED AS REQUIRED

DRIPLINE (INDIVIDUAL PLANT)

RAINBIRD DRIP CONTROL ZONE KIT XCZ-100-PRB-COM (EACH DRIP ZONE) 1" BALL VALVE WITH REGULATED PRESSURE AND 200 MESH FILTRATION (1) DRIP SYSTEM OPERATION INDICATOR (OPERIND) PER IRRIGATION ZONE

TEMPORARY IRRIGATION

INSTALL ALL EQUIPMENT ACCORDING TO MANUFACTURERS SPECIFICATIONS ALL VALVE BOXES SHALL BE RAINBIRD VB-STD OR APPROVED EQUAL ALL VALVE BOXES SHALL HAVE FILTER FABRIC AND 4" OF GRAVEL AT BASE

DESIGN PRESSURE 60 PSI

ELECTRICAL SPLICES AT EACH VALVE AND CONTROLLER ONLY.

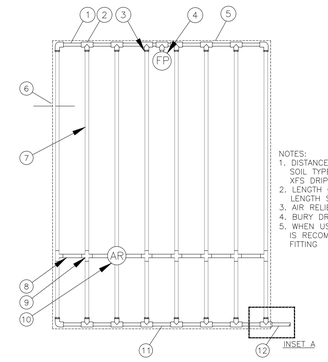
IRRIGATION IN TEXAS IS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) MC-178/ P.O.BOX 13087, AUSTIN, TX 78711-3087. TECQ'S WEBSITE IS: www.tceq.state.tx.us

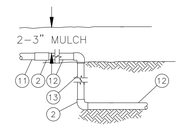
BUBBLER PIPING CHART

NUMBER OF BUBBLERS	SIZE OF PIPE
1 - 5	½"
6 - 10	¾"
11 - 20	1"
21 - 30	1¼"
31 - 40	1½"

IRRIGATION NOTES

1. All equipment numbers reference Rainbird equipment catalog unless otherwise indicated.
2. LAWN SPRAY HEADS are RVAN installed as per detail.
3. SHRUB SPRAY HEADS are RVAN installed as per detail.
4. ELECTRIC CONTROL VALVES shall be PEB installed as per detail shown. Size valves as shown on plans. Valves shall be installed in valve boxes large enough to permit manual operation, removal of solenoid and/or valve cover without any earth excavation. (Refer to Specifications)
5. AUTOMATIC CONTROLLER shall be installed at location shown. Power (120V) shall be located in a junction box within five feet (5') of controller location. Power supply and junction box to be provided by General Contractor.
6. All 24 volt valve wiring is to be UF 14 single conductor. All wire splices are to be permanent and waterproof. (Refer to Specifications)
7. SLEEVES shall be supplied and installed by Irrigation Contractor. Sleeve material shall be Schedule 40. Bore under existing pavement as required. Sizes as indicated on plans.
8. Ten days prior to start of construction, contractor shall verify static water pressure. If static pressure is less than 50 PSI, do not start work until notified to do so by SSP Design.
9. All mainline and lateral piping shall have a minimum of 12 inches of cover. All piping under paving shall have a minimum of 18 inches of cover. (Refer to Specifications).
10. The irrigation contractor shall coordinate installation of the system with the landscape contractor so that all plant material will be watered in accordance with the intent of the plans and specifications.
11. The irrigation contractor shall select the proper arc and radius for each nozzle to insure 100% and proper coverage of all lawn areas and plant material. All nozzles in parking lots and planting beds shall be low angle to minimize overspray on pavement surfaces. No water will be allowed to spray on building.
12. The irrigation contractor shall warranty all system coRVonents for a period of one year plus 20 days. (Refer to Specifications).
13. See specifications for further instructions and project requirements. Contractor shall follow specification section 328000 - Site Irrigation for any discrepancies between plans and specifications.





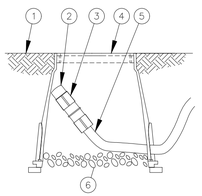
NOTES:
1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE RAIN BIRD XFS DRIPLINE INSTALLATION GUIDE FOR SUGGESTED SPACINGS.
2. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM LENGTH SHOWN IN THE ACCORVANYING TABLE.
3. AIR RELIEF VALVE TO BE INSTALLED AT HIGH POINT OF AREA.
4. BURY DRIP LINE MIN. 1" BELOW SOIL LEVEL THAN ADD 2" MULCH.
5. WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLARVS BE INSTALLED ON EACH FITTING

XFS Dripline Maximum Lateral Lengths (Feet)

Inlet Pressure	12" Spacing		18" Spacing		24" Spacing	
	Nominal Flow (GPH)		Nominal Flow (GPH)		Nominal Flow (GPH)	
psi	0.6	0.9	0.6	0.9	0.6	0.9
15	255	194	357	273	448	343
20	291	220	408	313	514	394
30	350	266	494	378	622	478
40	396	302	560	428	705	541
50	434	333	614	470	775	594

1. PVC EXHAUST HEADER
2. PVC SCH 40 TEE OR EL (TYPICAL)
3. BARB X MALE FITTING: RAIN BIRD XFF-MA FITTING (TYPICAL)
4. FLUSH POINT (TYPICAL) SEE RAIN BIRD DETAIL "XFS FLUSH POINT" OR "XFS FLUSH POINT WITH BALL VALVE"
5. PERIMETER OF AREA
6. PERIMETER DRIPLINE PIPE TO BE INSTALLED 2"-4" FROM PERIMETER OF AREA
7. SUB-SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE (TYPICAL) POTABLE: XFS DRIPLINE NON-POTABLE: XFSP DRIPLINE
8. RAIN BIRD XF SERIES BLANK TUBING
9. BARB X BARB INSERT TEE OR CROSS: RAIN BIRD XFF-TEE OR RAIN BIRD XFD-CROSS (TYPICAL)
10. ½" AIR RELIEF VALVE: RAIN BIRD MODEL: ARV050 SEE RAIN BIRD XFS DETAILS FOR AIR RELIEF INSTALLATION
11. PVC SUPPLY HEADER
12. PVC DRIP MANIFOLD FROM RAIN BIRD CONTROL ZONE VALVE KIT (SIZED TO MEET LATERAL FLOW DEMAND)
13. PVC SCH 40 RISER PIPE

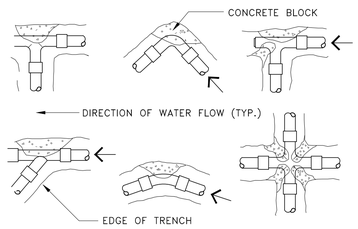
4 XFS SUB-SURFACE DRIPLINE
END FEED LAYOUT INST. N.T.S.



1. FINISH GRADE
2. FLUSH CAP FOR EASY FIT CORVRESSION FITTINGS: POTABLE:RAIN BIRD MDCFCAP NON-POTABLE: RAIN BIRD MDCFPCAP
3. EASY FIT COUPLING: RAIN BIRD MDCFCOUP
4. SUBTERRANEAN EMITTER BOX: RAIN BIRD SEB 7XB
5. SUB-SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE POTABLE: XFS DRIPLINE NON-POTABLE: XFSP DRIPLINE
6. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL WITH FILTER FABRIC AT BASE

NOTE:
1. ALLOW A MINIMUM OF 6-INCHES OF DRIPLINE TUBING IN VALVE BOX IN ORDER TO DIRECT FLUSHED WATER OUTSIDE VALVE BOX.

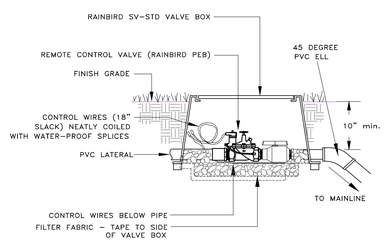
1 DRIPLINE
NOT TO SCALE



THRUST BLOCK BEARING AREA (SQ. FT.)				
PIPE SIZE	1 1/4" - 2 1/2"	3"	4"	
TEES/ELLS	1.00	1.00	1.25	3.6"
90 BENDS	1.00	1.25	2.00	4.5
45 BENDS	1.00	1.00	1.00	2.4

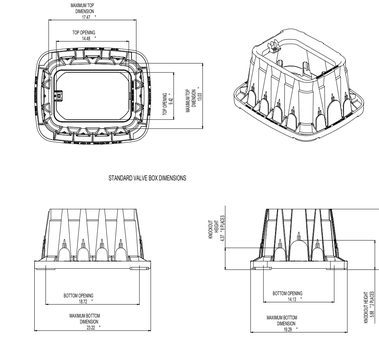
NOTE:
INSTALL THRUST BLOCK AT ALL MAINLINE BENDS, TEES OR ELLS AS SHOWN BELOW. THRUST BLOCKS SHALL BE MINIMUM OF (1) CU. FT. REDI-MIX CONCRETE OR 2500 PSI 28 DAY CONCRETE.

2 THRUST BLOCK DETAIL
NOT TO SCALE



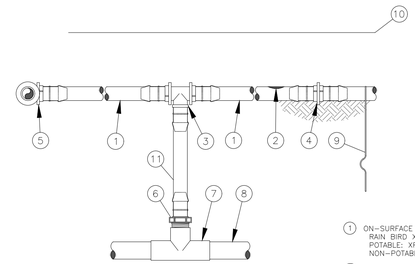
ALL VALVE BOXES SHALL HAVE FILTER FABRIC AND 4" OF GRAVEL AT BASE

3 REMOTE CONTROL VALVE
NOT TO SCALE



ALL VALVE BOXES SHALL BE RAINBIRD VB-STD OR APPROVED EQUAL
ALL VALVE BOXES SHALL HAVE FILTER FABRIC AND 4" OF GRAVEL AT BASE

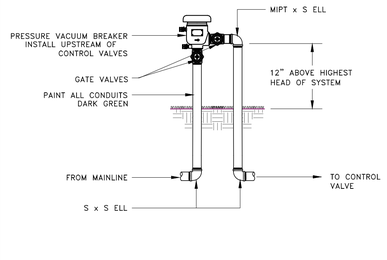
5 VALVE BOX (VB-STD)
NOT TO SCALE



1. ON-SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE POTABLE: XFS DRIPLINE NON-POTABLE: XFSP DRIPLINE
2. INLINE DRIP EMITTER OUTLET, SEE PLANS FOR DRIPLINE OUTLET SPACING.
3. BARB TEE 17x17x17mm RAIN BIRD XFF-TEE
4. BARB COUPLING 17x17mm RAIN BIRD XFF-COUP
5. BARB ELBOW 17x17mm RAIN BIRD XFF-ELBOW
6. BARB MALE ADAPTER 17mm X 1/2" RVT RAIN BIRD XFF-MA-050 17mm X 1/4" RVT RAIN BIRD XFF-MA-075
7. PVC TEE SxSxT
8. PVC LATERAL SUPPLY HEADER
9. TIE DOWN STAKE: RAIN BIRD TDS-050 WITH BEND (TYPICAL)
10. MULCH
11. RAIN BIRD XF SERIES BLANK TUBING LENGTH AS REQUIRED

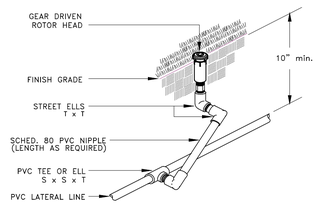
NOTES:
1. PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY.
2. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.
3. SAVE YOUR HANDS. USE THE RAIN BIRD FITTINS-TOOL XF INSERTION TOOL FOR FITTING ASSEMBLY.

6 IRRIGATION SYSTEMS
SUB-HEADER INST. N.T.S.



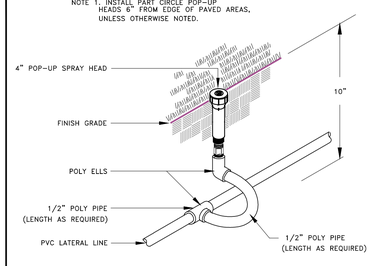
7 PRESSURE VACUUM BREAKER
NOT TO SCALE

NOTE: 1. KBI OR LASSCO SWING JOINT
2. INSTALL PART CIRCLE POP-UP HEADS 6" FROM EDGE OF PAVED AREAS.

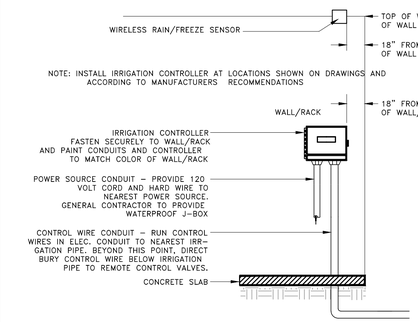


8 ROTOR POP-UP
NOT TO SCALE

NOTE 1. INSTALL PART CIRCLE POP-UP HEADS 6" FROM EDGE OF PAVED AREAS, UNLESS OTHERWISE NOTED.



9 LAWN POP-UP HEAD
NOT TO SCALE



10 WALL/RACK MOUNTED CONTROLLER
NOT TO SCALE

SSP Design
SITE PLANNING
LANDSCAPE DESIGN
789 E. WASHINGTON ST.
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McAllen Harlingen

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CONSULTANTS:

12/10/20

NO.	DATE	DESCRIPTION REVISIONS

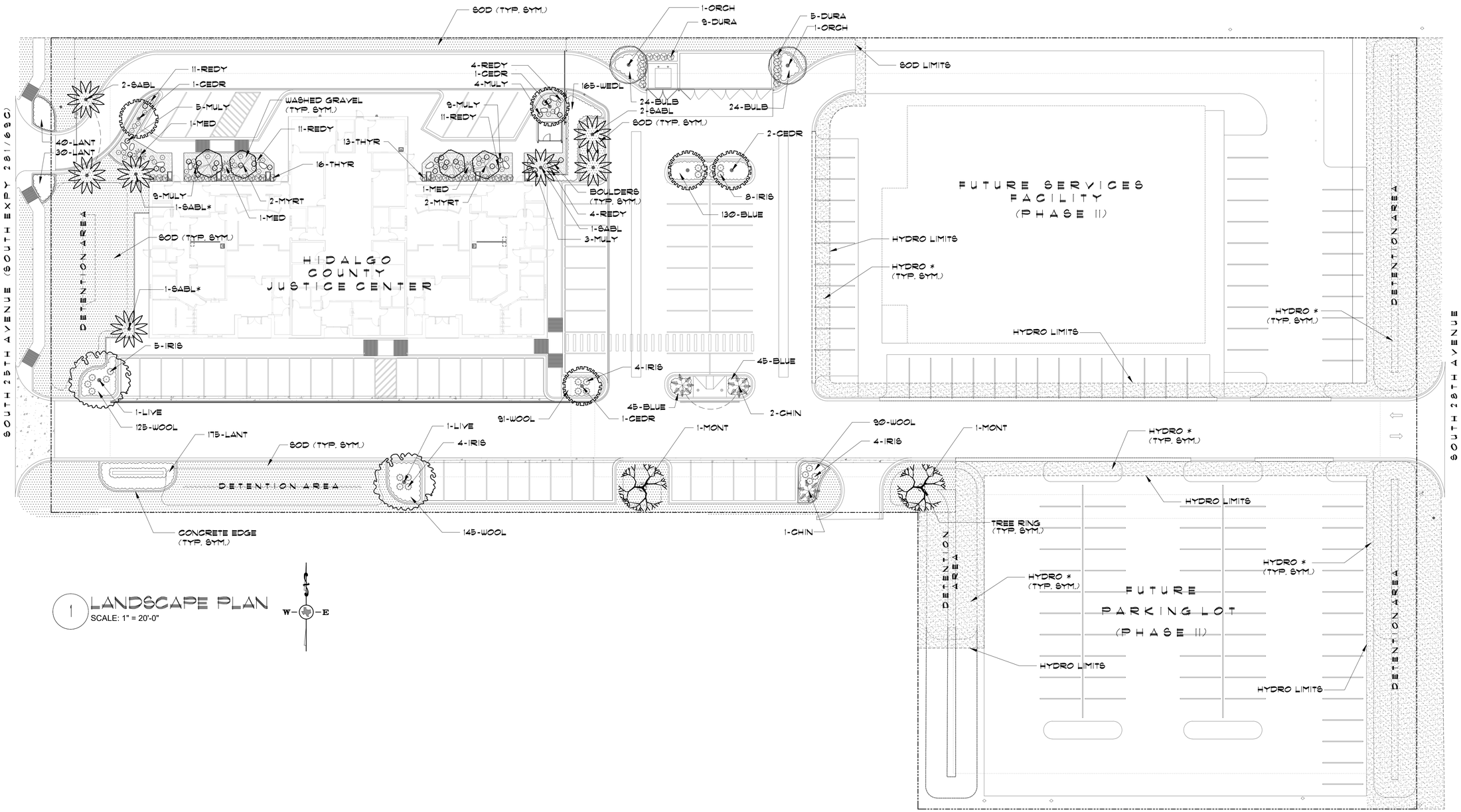
HIDALGO COUNTY PRECINCT No.4
NEW JUSTICE CENTER

HIDALGO COUNTY, TEXAS
1212 SOUTH 25TH AVENUE, EDINBURG, TEXAS 78542

PROJECT NO:	2018.19
DATE:	12-10-20
STARTING DATE:	
CK BY: SSP	DWN BY:

IRRIGATION DETAILS

L1.02



1 LANDSCAPE PLAN
SCALE: 1" = 20'-0"

rofa architects
Rike • Ogden • Figueroa • Allex

McAllen
1007 Walnut Ave.
McAllen, Texas 78501
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F. 956.687.3433
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CK BY: SSP	DWN BY:

LANDSCAPE PLAN

L2.01

SSP Design
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LANDSCAPE DESIGN
789 E. WASHINGTON ST.
BROWNSVILLE, TX. 78575
TEL (956) 547-9788
FAX (956) 547-9977
www.sspdesign.com

PLANT SCHEDULE

CODE	BOTANICAL NAME	COMMON NAME	TYPE	SIZE	SPACING	QTY
	PALMS/CYCADS					
CHIN	LIVISTONA CHINENSIS	CHINESE FAN PALM	B/B	4-6' HEIGHT	AS.	3
MED	CHAMAEROPS HUMILIS	MED. FAN PALM (MULTI)	B/B	12" TRUNK	AS.	3
SABL	SABAL TEXANA	TEXAS SABAL PALM	B/B	6-8' TRUNK	AS.	5
SABL*	SABAL TEXANA	TEXAS SABAL PALM	B/B	10-12' TRUNK	AS.	2
	TREES					
CEDR	ULMUS CRASSIFOLIA	CEDAR ELM (ROOTMAKER BAG)	15" RM	2-3" CAL. 10'H X 5' W	AS.	5
LIVE	QUERCUS VIRGINIANA	LIVE OAK (ROOTMAKER BAG)	24" RM	4-5" CAL. 15'H X 6'W	AS.	2
MYRT	LAGERSTROEMIA X 'NATCHES'	'NATCHES' CRAPE MYRTLE	45 GAL	12'HT X 6'W MULTI	AS.	4
MONT	TAXODIUM MUCRONATUM	MONTEZUMA CYPRESS	24" BOX	3-4" CAL.	AS.	2
ORCH	BAUHINIA VARIEGATA	ORCHID TREE	30 GAL	3" CAL. 10'H X 6' W	AS.	2
	SHRUBS					
BULB	BULBINE FRUTESCENS	ORANGE BULBINE	1 GAL	12"HT-BUSHY	18" O.C.	48
DURA	DURANTA SP.	DWARF 'SAPPHIRE SHOWERS'	3 GAL	18"HT-BUSHY	AS.	14
IRIS	DIETES IRIDIOIDES	WHITE AFRICAN IRIS	3 GAL	18"HT-BUSHY	AS.	25
THYR	GALPHIMIA GLAUCA	GOLDEN THYRALLIS	3 GAL	18"HT-BUSHY	AS.	29
REDY	HESPERALOE PARVIFLORA	RED YUCCA	3 GAL	18"HT-BUSHY	AS.	41
LANT	LANTANA CAMARA 'RED SPREAD'	'RED SPREAD' LANTANA	1 GAL	12"HT-BUSHY	18" O.C.	245
MULY	MUHLENBERGIA LINDHEIMERI	MUHLY GRASS	3 GAL	18"HT-BUSHY	AS.	30
	GROUND COVERS					
BLUE	RUELLIA EQUARROSA	BLUE SHADE RUELLIA	1 GAL	12"HT-BUSHY	12" O.C.	220
WEDL	WEDELIA TRILOBATA	WEDELIA	4" POTS		12" O.C.	165
WOOL	STEMODIA LANATA	WOOLY STEMODIA	1 GAL	12"HT-BUSHY	12" O.C.	451
	GRASS					
SOD	CYNODON DACTYLON	# 1 CERTIFIED '419' HYBRID BERMUDA SOD			1,300 S.Y.	
HYDRO*	CYNODON DACTYLON	COMMON BERMUDA HYDROMULCH WITH TACKIFIER			14,400 S.F.	

NOTE: ROOTMAKER BAG TREES SHALL BE SIMMONS OAK FARMS (956) 425-5859 OR APPROVED EQUAL.

MATERIAL SCHEDULE

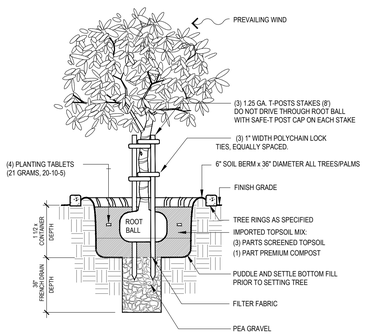
DESCRIPTION	NOTES	QUANTITY
PREMIUM COMPOST	2" LAYER PREMIUM COMPOST (NINE KIDS COMPOST**)	20 C.Y.
SCREENED TOP SOIL	8" FOR ALL PLANTING BEDS	85 CY.
MULCH (HARDWOOD)	2" MIN. FOR ALL PLANTING BEDS AND WATERING BASINS (TEXAS NATIVES HARDWOOD)	250 BAGS (2CF BAG)
HERBICIDE	ALL PLANTING BED AREAS AS SPECIFIED	4,085 SF.
FERTILIZER	ALL PLANT MATERIAL PER DETAILS	4,085 SF.
PLANTING TABLETS	PER DETAILS / AS SPECIFIED	--
PRE-EMERGENT	ALL PLANTING BED AREAS AS SPECIFIED	4,085 SF.
GUYING / STAKING	ALL TREES/PALMS PER DETAILS	--
CONCRETE EDGE	4 X6" EXTRUDED COLORED CONCRETE EDGING 'TEXAS BUFF' PER PLANS/DETAILS	275 L.F.
FILTER FABRIC	FABRISCAPE NON-WOVEN 402 FILTER FABRIC FOR GRAVEL AREAS AS PER PLANS	1,550 SF.
WASHED GRAVEL*	6" DEPTH WASHED GRAVEL (1 TO 1 1/2") AS PER PLANS	30 CY.
BOULDERS*	LIMESTONE BOULDERS (VARIES APPROX. 18"X24"X24" TO 18"X24"X36")	15
TREE RINGS	5" COMMERCIAL GRADE ANODIZED ALUMINUM EDGE PER PLANS/DETAILS	2
IRRIGATION SYSTEM	COMPLETE AUTOMATIC IRRIGATION SYSTEM BY LICENSED CONTR.	--

NOTE: CONTRACTORS MUST REVIEW TECHNICAL SPECIFICATIONS FOR ADDITIONAL PRODUCT INFORMATION AND PROJECT REQUIREMENTS.

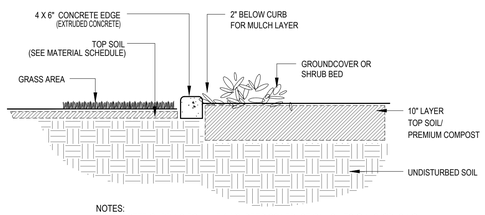
* STONE AND SOIL DEPOT (956) 464-0777, OR APPROVED EQUAL
* CONTRACTOR TO SUBMIT PHOTOS / SAMPLES OF ALL STONE MATERIALS FOR APPROVAL
** NINE KIDS COMPOST (956) 432-4983 OR CITY OF MCALLEN COMPOST (956) 681-4000

LANDSCAPE CONSTRUCTION NOTES

1. WORK UNDER THIS CONTRACT INCLUDES SITE REVIEW AND COORDINATION WITH EXISTING CONDITIONS, SITE CLEANUP, EXCAVATION, BED PREP, TILLING, PLANTING, STAKING, EDGING, WASHED GRAVEL, BOULDERS, IRRIGATION, MAINTENANCE, AND GUARANTEE.
2. LANDSCAPE CONTRACTOR SHALL FIELD VERIFY ALL QUANTITIES AND DIMENSIONS PRIOR TO BIDDING. QUANTITIES SHOWN IN SCHEDULE ARE FOR CONVENIENCE ONLY.
3. NOTIFY SSP DESIGN PRIOR TO BID OF ANY DISCREPANCIES IN DRAWINGS/DETAILS OR INSUFFICIENT QUANTITIES DUE TO DIFFERENCES IN PLAN AND ACTUAL FIELD CONDITIONS.
4. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES. SPOTTING OF ALL UTILITIES IS REQUIRED.
5. NOTIFY AND MEET WITH SSP DESIGN PRIOR TO ANY CONSTRUCTION FOR VERIFICATION/INTERPRETATION OF PLANS.
6. LANDSCAPE CONTRACTOR SHALL VERIFY ALL PROPERTY BOUNDARIES AND LIMITS OF WORK WITH GENERAL CONTRACTOR/CIVIL ENGINEER. DO NOT BEGIN LANDSCAPE CONSTRUCTION UNTIL ALL BOUNDARIES, EASEMENTS AND RIGHTS-OF-WAY HAVE BEEN VERIFIED IN THE FIELD.
7. LANDSCAPE CONTRACTOR SHALL STAKE OUT ALL BEDS, TREES, PALM LOCATIONS PRIOR TO INSTALLATION FOR APPROVAL BY SSP DESIGN.
8. LANDSCAPE CONTRACTOR TO COORDINATE WITH SSP DESIGN TO ENSURE PROPER PLACEMENT OF PLANT MATERIAL AND IRRIGATION EQUIPMENT.
9. LANDSCAPE CONTRACTOR TO INSTALL EXTRUDED CONCRETE EDGING AS SHOWN ON PLANS.
10. LANDSCAPE CONTRACTOR TO SUPPLY/INSTALL 36" DIA. TREE RINGS AS SHOWN ON PLANS/DETAILS.
11. NOTIFY SSP DESIGN PRIOR TO PLANTING OPERATIONS FOR APPROVAL OF ALL PLANT MATERIAL ON SITE. ANY PLANT MATERIAL NOT APPROVED BY SSP DESIGN WILL BE SUBJECT TO REJECTION.
12. IRRIGATION CONTRACTOR SHALL SUPPLY AND INSTALL COMPLETE AUTOMATIC IRRIGATION SYSTEM INCLUDING WATER METER, BACKFLOW DEVICE, CONTROLLER, MAINLINE, SLEEVES, LATERALS, AND POP-UP HEADS, TO COVER ALL LANDSCAPE AREAS PER PLANS/DETAILS. IRRIGATION SYSTEM SHALL BE INSTALLED BY A TEXAS LICENSED IRRIGATOR ONLY.
13. LANDSCAPE CONTRACTOR SHALL REMOVE ALL EXISTING GRASS/WEEDS BY HERBICIDING PRIOR TO BED PREP AND SOIL REPLACEMENT.
14. LANDSCAPE CONTRACTOR SHALL REMOVE 12" OF EXST'G SOIL WITHIN ALL BED AREAS AND REPLACE WITH IMPORTED TOP SOIL/PREMIUM COMPOST MIX.
15. LANDSCAPE CONTRACTOR SHALL CONSTRUCT 6"X36" WATERING BASINS AROUND ALL TREES/PALMS WITH A MIN. 2" LAYER OF CYPRESS MULCH.
16. LANDSCAPE CONTRACTOR SHALL LOOSEN / GRADE ALL LAWN AREAS PRIOR TO HYDRO-MULCHING/SODDING TO ENSURE PROPER DRAINAGE AND UNIFORM SURFACE.
17. LANDSCAPE CONTRACTOR SHALL REMOVE ALL EXISTING GRASS AND WEEDS BY HERBICIDING, DISKING, FLOATING AND LIGHT GRADING OF ENTIRE PROJECT AREA PRIOR TO SODDING/HYDROMULCHING.
18. LANDSCAPE CONTRACTOR SHALL ESTABLISH AND MAINTAIN ALL PLANT MATERIAL FOR 90 DAYS AFTER SUBSTANTIAL COMPLETION' AND SHALL GUARANTEE ALL TREES/PALMS FOR A PERIOD OF ONE YEAR.
19. IRRIGATION CONTRACTOR SHALL GUARANTEE ALL SYSTEM COMPONENTS FOR A PERIOD OF ONE YEAR.
20. SEE SPECIFICATIONS FOR FURTHER INSTRUCTIONS/REQUIREMENTS.

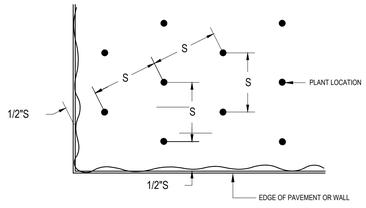


1 TREE PLANTING DETAIL
NOT TO SCALE



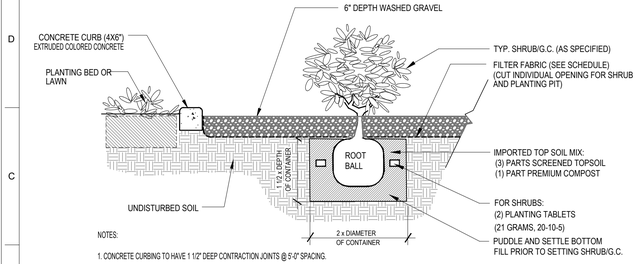
NOTES:
1. CONCRETE CURBING TO HAVE 1 1/2" DEEP CONTRACTION JOINTS @ 5'-0" SPACING.
2. 3000 -3500 PSI COMPRESSIVE STRENGTH, 490 PSI FLEXURAL STRENGTH.
3. USE HALF-INCH POLYPROPYLENE FIBER REINFORCEMENT.
4. NATURAL FINISH AND COLOR (TO MATCH BUILDING BRICK)
5. EQUAL TO 'CONTOUR CURBS' EDGING (956-867-8350). CONTOURCURBS.NET
6. CONCRETE CURBING TO HAVE TAPERED DRAINAGE POINTS AT 10' O.C.

2 CONCRETE EDGE DETAIL
NOT TO SCALE



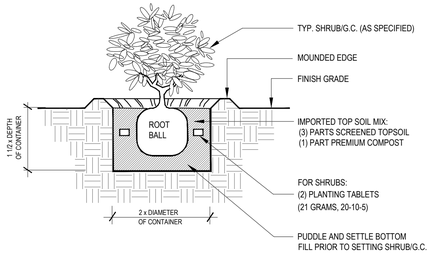
NOTE:
1. S = SPACING, (REFER PLANT LIST FOR AMOUNT OF SPACING.)
2. USE SPACING LAYOUT FOR SHRUBS, GROUNDCOVERS AND ANNUALS.

3 TRIANGULAR PLANT SPACING DIAGRAM
NOT TO SCALE

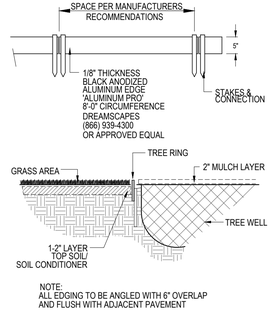


NOTES:
1. CONCRETE CURBING TO HAVE 1 1/2" DEEP CONTRACTION JOINTS @ 5'-0" SPACING.
2. CONCRETE CURBING TO HAVE TAPERED DRAINAGE POINTS AT 10' O.C.
3. 2500-3000 PSI COMPRESSIVE STRENGTH, 490 PSI FLEXURAL STRENGTH.
4. USE HALF-INCH POLYPROPYLENE FIBER REINFORCEMENT.
5. NATURAL FINISH AND COLOR TO MATCH BUILDING.
6. EQUAL TO 'CONTOUR CURBS' EDGING (956-867-8350). CONTOURCURBS.NET.

4 GRAVEL PLANTING BED DETAIL
NOT TO SCALE

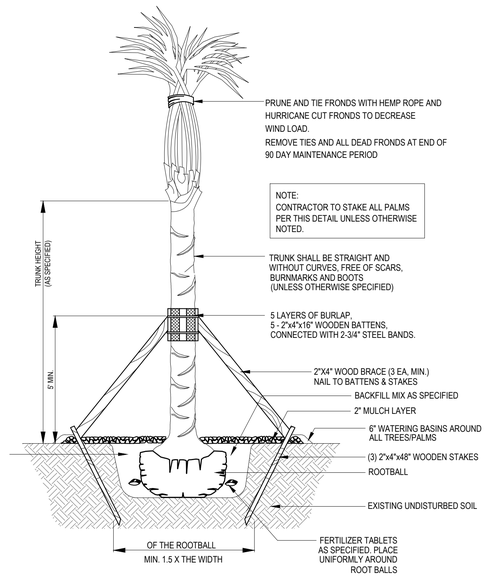


5 SHRUB/G.C. PLANTING DETAIL
NOT TO SCALE



NOTE:
ALL EDGING TO BE ANGLED WITH 6" OVERLAP AND FLUSH WITH ADJACENT PAVEMENT

6 TREE RING DETAIL
NOT TO SCALE



7 PALM PLANTING DETAIL
NOT TO SCALE

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CONSULTANTS:

NO.	DATE	REVISIONS DESCRIPTION

HIDALGO COUNTY PRECINCT No.4
NEW JUSTICE CENTER
HIDALGO COUNTY, TEXAS
1212 SOUTH 25TH AVENUE, EDINBURG, TEXAS 78542

PROJECT NO:	2018.19
DATE:	12-10-20
STARTING DATE:	
CK BY: SSP	DWN BY:

LANDSCAPE SCHEDULES AND DETAILS

L3.01

GENERAL NOTES

GENERAL

1. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKMEN, AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, SHORING FOR THE EARTH BANKS, FORMS, SCAFFOLDING, PLANNING, SAFETY NETS, SUPPORT AND BRACING FOR CRANES, GIN POLES, ETC. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, AND HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.

2. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.

3. EQUIPMENT FRAMING LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO HVAC, PLUMBING, OR ELECTRICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. EXACT WEIGHTS AND LOCATIONS OF MECHANICAL EQUIPMENT SHALL BE COORDINATED BY CONTRACTOR. IF THE FINAL LOCATION VARIES FROM THAT SHOWN ON THE PLANS, CONTRACTOR TO NOTIFY ARCHITECT AND ENGINEER FOR APPROVAL BEFORE INSTALLATION.

4. SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THESE STRUCTURAL NOTES, THE SPECIFICATIONS, OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN.

5. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE AND SHALL BE RESPONSIBLE FOR CONDITIONS OF ALL WORK AND MATERIALS.

6. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS AND ELEVATIONS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES IN WRITING TO THE ARCHITECT. ANY CONFLICT BETWEEN THE DRAWING AND SPECIFICATIONS OF THE VARIOUS TRADES INVOLVED SHALL BE REPORTED TO THE ARCHITECT AND ENGINEER.

7. DETAILS SHOWN ON DRAWINGS APPLY AT SIMILAR CONDITIONS.

8. ALL WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL STANDARDS AND TO ALL APPLICABLE PROVISIONS OF THE GOVERNING BUILDING CODE.

9. THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED IN WRITING WHEN WORK COMMENCES.

10. CONTRACTOR SUBSTITUTIONS: ANY MATERIALS OR PRODUCTS THAT ARE SUBMITTED FOR APPROVAL THAT ARE DIFFERENT FROM THE MATERIALS OR PRODUCTS SPECIFIED IN THE CONTRACT DOCUMENTS WILL ONLY BE CONSIDERED IF THE FOLLOWING CRITERIA ARE SATISFIED.
    A) A COST SAVING TO THE OWNER IS DOCUMENTED AND SUBMITTED WITH THE REQUEST
    B) THE MATERIAL OR PRODUCT HAS BEEN APPROVED BY THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS (ICBO) AND THE ICBO REPORT IS SUBMITTED WITH THE REQUEST.

STRUCTURAL OBSERVATION

1. THE PROFESSIONAL ENGINEER OR HIS/HER AUTHORIZED REPRESENTATIVE SHALL CONDUCT ALL STRUCTURAL OBSERVATIONS. STRUCTURAL OBSERVATIONS SHALL BE FOR THE PURPOSE OF ASCERTAINING GENERAL COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. HOWEVER, SUCH OBSERVATION VISITS SHALL NOT RELIEVE THE CONTRACTOR FROM HIS OBLIGATIONS AND RESPONSIBILITIES TO THE CONSTRUCTION DOCUMENTS.

2. ITEMS THAT REQUIRE A STRUCTURAL OBSERVATION ARE AS FOLLOWS:
    A. STEEL REINFORCEMENT IN SLAB OR FOUNDATION AND CANOPIES
    B. FRAMING OF ROOF STRUCTURE BEFORE METAL DECKING IS INSTALLED
    C. EXTERIOR METAL DECKING INSTALLATION
    D. CMU WALL REINFORCING BEFORE FILLING WITH GROUT

3. NOTIFY ENGINEER 24 HOURS IN ADVANCE WHEN A STRUCTURAL OBSERVATION IS REQUIRED.

4. WORK SHALL NOT CONTINUE AT THESE AREAS UNTIL OBSERVATION AND APPROVAL BY ENGINEER. FAILURE BY THE CONTRACTOR TO PROVIDE PROPER NOTICE FOR AN OBSERVATION VISIT AT THE REQUIRED TIME OR ADDITIONAL WORK PERFORMED WITHOUT AN OBSERVATION VISIT WILL BE DONE AT CONTRACTOR'S RISK AND MAY BE SUBJECT TO COMPLETE OR PARTIAL REMOVAL TO VERIFY COMPLIANCE OF PREVIOUS WORK.

SHOP DRAWINGS & SUBMITTALS

1. SUBMITTAL THAT WILL BE REQUIRED FOR APPROVAL INCLUDE:
    A. CONCRETE MIX DESIGN
    B. CURING COMPOUND FOR CONCRETE
    C. REINFORCING STEEL IN SLAB AND CMU WALL AND CANOPY
    D. STRUCTURAL STEEL
    E. STEEL JOIST
    F. METAL DECKING
    G. CMU WALL COMPONENTS

2. DEFERRED SUBMITTALS THAT WILL REQUIRE APPROVAL INCLUDE:
    A. PRE-MANUFACTURED CANOPIES (SIGNED AND SEALED DRAWINGS WITH CALCULATIONS AND REACTIONS)

3. DEFERRED SUBMITTALS SHALL BE DESIGNED BY A TEXAS REGISTERED PROFESSIONAL ENGINEER ACCORDING TO THE DESIGN CRITERIA STATED IN THE PLANS AND SPECIFICATIONS, AND AS REQUIRED BY THE RESPECTIVE BUILDING CODE, WHICHEVER IS GREATER. THE SUBMITTAL SHALL INCLUDE SIGNED AND SEALED CALCULATIONS.

2. ALLOW (2) WEEKS MINIMUM FOR REVIEW OF SHOP DRAWINGS.

3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DELAYS CAUSED BY REJECTION OF INADEQUATE OR COMPLETE SHOP DRAWINGS.

3. PRIOR TO ISSUING THE SUBMITTALS TO THE ENGINEER, THE CONTRACTOR SHALL REVIEW THE SHOP DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSION WITH ARCHITECTURAL PLANS.

4. REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS FOR GENERAL CONFORMANCE TO THE STRUCTURAL DRAWINGS. APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR FOR ANY ERRORS OR OMISSIONS IN DIMENSIONS OR MATERIALS INDICATED ON THE SHOP DRAWINGS.

DESIGN CRITERIA

1. DESIGN LOADS, STRUCTURAL ANALYSIS AND PREPARATION OF STRUCTURAL MEMBERS ARE BASED ON THE FOLLOWING CRITERIA:

2. CODE: ..... IBC 2012

3. VERTICAL LOADS
    A. ROOF DEAD LOAD (BUILT-UP ROOF): ..... 25 PSF
    B. ROOF LIVE LOAD(REDUCIBLE) : ..... 20 PSF
    C. PONDING LOAD: ..... SEE ROOF PONDING PLAN
    D. UPLIFT LOAD ..... SEE ROOF UPLIFT PLAN

    K. MECHANICAL LOAD:
    THE GENERAL CONTRACTOR SHALL SUBMIT ACTUAL WEIGHTS AND LOCATIONS OF EQUIPMENT TO BE USED IN THE PROJECT TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF LOADS USED IN THE DESIGN AT LEAST TWO WEEKS PRIOR TO FABRICATION AND CONSTRUCTION OF THE SUPPORTING STRUCTURE.

4. LATERAL LOADS
    A. WIND SPEED (V-ULT): ..... 140 MPH
    WIND SPEED (V-ASD) ..... 108 MPH
    B. EXPOSURE CATEGORY: C
    C. IMPORTANCE FACTOR: 1.0
    D. BUILDING CATEGORY: III
    E. SEISMIC DESIGN CATEGORY: ..... A
    F. SITE CLASS: ..... D

5. GEOTECHNICAL ENGINEERING REPORT:
    PROVODED BY: L&G CONSULTING ENGINEERS, INC.
    PROJECT NUMBER: G20010
    DATE: 07/25/20
    FOUNDATION DESIGN BASED ON THE FOLLOWING PARAMETERS
    A. EFFECTIVE PI: 25
    B. CLIMATIC RATING (Cw): 15
    C. MINIMUN BEAM WIDTH: ..... 12 IN
    D. ALLOWABLE BEARING CAPACITY (BEAMS): ..... 1,100 PSF
    E. ALLOWABLE BEARING CAPACITY (FOOTING): ..... 1,100 PSF
    F. EXISTING PVR: ..... 1-4 IN
    G. PVR (SEE EXCAVATION NOTES): ..... 1 IN

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE TO AISC SPECIFICATIONS.

2. MATERIALS USED SHALL BE AS FOLLOWS=

A. STRUCTURAL W-SHAPES	-	ASTM A992 GRADE 50
B. STRUCTURAL M-SHAPES AND S-SHAPES	-	ASTM A36
C. STRUCTURAL T-SHAPES	-	CUT FROM W-SHAPES
D. CHANNELS AND ANGLES	-	ASTM A36
E. ROUND HOLLOW STRUCTURAL SECTIONS	-	ASTM A500 GRADE B
F. SQUARE AND RECTANGULAR HOLLOW STRUCTURAL SECTIONS	-	ASTM A500 GRADE B
G. STRUCTURAL PLATES	-	ASTM A36
H. STRUCTURAL BARS	-	ASTM A36
I. HIGH STRENGTH BOLTS	-	ASTM A325
J. ELECTRODES	-	SERIES E70

3. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY SPECIFICATIONS.

4. CONNECTIONS NOT DETAILED AND/OR SCHEDULED ON STRUCTURAL DRAWINGS SHALL BE DETAILED BY FABRICATOR AND MARKED FOR ENGINEERS APPROVAL. CONNECTIONS TO BE DESIGNED TO AISC SPECIFICATIONS AND SHALL BE CAPABLE OF SUPPORTING 55% OF THE MAXIMUM UNIFORM LOAD CAPACITY FOR THE SPAN SPECIFIED, SHOWN IN THE TABLES OF UNIFORM CONSTANTS OF THE AISC MANUAL OF STEEL CONSTRUCTION.

5. REFER TO ARCHITECTURAL PLANS FOR ANY MISCELLANEOUS STEEL. MISCELLANEOUS STEEL AND CONNECTIONS SHALL BE DESIGNED BY STEEL FABRICATOR.

6. HOT DIP GALVANIZE, IN ACCORDANCE WITH ASTM A123 AND ASTM A153, STRUCTURAL STEEL AND FASTENERS PERMANENTLY EXPOSED TO THE WEATHER.

7. STEEL SUPPORTING OR CONNECTED TO HVAC AND OTHER EQUIPMENT AS SHOWN ON THE DRAWINGS IS SHOWN FOR BIDDING PURPOSES ONLY CONTRACTOR SHALL COORDINATE EXACT LOCATION AND SIZE BEFORE COMMENCING WORK.

8. STRUCTURAL STEEL SHALL BE PAINTED WITH ONE COAT OF RUST INHIBITIVE PAINT.

9. STRUCTURAL DRAWINGS SHALL NOT BE REPRODUCED IN WHOLE OR IN PART FOR SHOP DRAWING SUBMITTALS.

10. PROVIDE 3 TONS OF RED IRON ALLOWANCE TO BE USED AS DIRECTED BY STRUCTURAL ENGINEER. INCLUDE LABOR COSTS IN THE ALLOWANCE. ANY UNUSED ALLOWANCE SHALL BE CREDITED BACK TO OWNER AT A COST OF $3500 PER TON.

11. ALL WELDED CONNECTION SHALL BE MADE WITH A 1/4" FILLET WELD U.N.O.

12. PROVIDE 1/2" GAP AT ALL PENETRATIONS THROUGH CMU WALL AND INFILL WITH ELASTOMERIC MATERIAL.

13. STEEL FABRICATOR SHALL BE CERTIFIED BY ONE OF THE FOLLOWING: AISC/ IBC/ IAS-ICC

METAL ROOF DECK

1. SHEET STEEL: ASTM A653 GRADE 33 STRUCTURAL QUALITY WITH G90 GALVANIZED COATING CONFORMING TO ASTM A525

2. DECK PROFILE - B
    PROFILE DEPTH - 1.5 IN.
    GAGE - 22

3. METAL DECK ATTACHMENT SHALL BE:
    AT SUPPORTS: #12 TEK SCREWS AT A 36/7 PATTERN
    AT SIDELAPS: #10 TEK SCREWS, 7 PER SPAN

4. WELDING OF METAL DECKING SHALL NOT BE ALLOWED

5. ALL METAL DECK PANELS SHALL SPAN ACROSS A MINIMUM OF FOUR JOISTS OR BEAMS

6. DECK ENDS SHALL BE LAPPED OVER SUPPORTS

CONCRETE

1. ALL CONCRETE WORK SHALL BE EXECUTED IN ACCORDANCE WITH ACI 318 AND ACI 301 LATEST EDITION.

2. CEMENT SHALL CONFORM TO ASTM C150 TYPE I AGGREGATE SHALL CONFORM TO ASTM C33.

3. CONCRETE SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH AS FOLLOWS:

MEMBER TYPE	STRENGTH	SLUMP	MAX AGG.
FOUNDATION AND SLAB	3000 PSI	4"-6"	1.5 IN.
CONCRETE CANOPY	4000 PSI	4"-6"	1.5 IN.

4. INSTALL 10 MIL VAPOR RETARDER UNDER SLABS ON GRADE AND ALONG SIDE OF TRENCHES IN ACCORDANCE WITH ASTM E1643. LAP JOINTS MINIMUM OF 12 INCHES.

5. PLACE CONCRETE CONTINUOUSLY BETWEEN PRE-DETERMINED EXPANSION AND CONSTRUCTION JOINTS.

6. ALL CONSTRUCTION JOINT LOCATIONS TO BE APPROVED BY ARCHITECT AND STRUCTURAL ENGINEER.

7. HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE PERMITTED.

8. CURE CONCRETE IN ACCORDANCE WITH ACI 308.1

9. REFER TO ARCHITECTURAL AND MECHANICAL PLANS FOR LOCATIONS OF ALL DEPRESSIONS, OPENINGS, ACCESSORIES, ETC.

10. CONDUIT AND PLUMBING LINES SHALL BE PLACED BELOW SLAB REINFORCING AND SHALL BE NO BIGGER THAN 1 INCH.

11. FLYASH MAY BE USED TO REPLACE A PORTION OF THE PORTLAND CEMENT. THE RATIO OF FLYASH TO THE TOTAL OF THE FLYASH AND CEMENT IN A MIX SHALL NOT EXCEED 20%. FLYASH SHALL CONFORM TO ASTM C618, TYPE C OR F.

12. ALL FLOORS SHALL BE CONSTRUCTED WITH A MINIMUM FLATNESS FF = 35 AND A MINIMUM LEVELNESS OF FL = 25

13. CONTRACTION JOINTS TO BE INSTALLED WITHIN 12 HOURS OF POURING FOUNDATION.

14. TESTING OF CONCRETE SHALL BE DONE AS FOLLOWS:
    1) SETS SHALL CONSIST OF 3 CYLINDERS
    ONE TESTED AT 7 DAYS
    TWO TESTED AT 28 DAYS
    2) ONE SET SHALL BE TAKEN FOR EACH 150 CY AND FOR EVERY 5000 SF OF SURFACE AREA AND AT LEAST ONCE PER DAY OF POURING
    3) A MINIMUM OF 3 SETS SHALL BE TAKEN FOR EACH CLASS OF CONCRETE

15. NO WATER SHALL BE ADDED TO THE CONCRETE AT THE JOBSITE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE CONCRETE SUPPLIER TO ENSURE A PUMPABLE AND WORKABLE MIX WITHOUT THE ADDITION OF WATER AT THE JOBSITE. THE USE OF PLASTICIZERS, RETARDANTS AND OTHER ADDITIVES SHALL BE AT THE OPTION OF THE CONTRACTOR SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER. FOLLOW THE RECOMMENDATIONS OF THE MANUFACTURER FOR THE PROPER USE OF ADDITIVES. THE USE OF CALCIUM CHLORIDE OR OTHER CHLORIDE BEARING SALTS SHALL NOT BE PERMITTED.

16. PLACE CONCRETE IN A MANNER SO AS TO PREVENT SEGREGATION OF THE MIX. DELAY FLOATING AND TROWELING OPERATIONS UNTIL CONCRETE HAS LOST SURFACE WATER SHEEN OR ALL FREE WATER. DO NOT SPRINKLE FREE CEMENT ON THE SLAB SURFACE. FINISHING OF SLAB SURFACES SHALL COMPLY WITH THE RECOMMENDATIONS OF AC1 302.1 AND 304.

17. UNLESS SPECIFIED, CONCRETE MUST REACH THE FOLLOWING PERCENTAGES OF ITS 28-DAY COMPRESSIVE STRENGTH (F'c), BEFORE FORMS MAY BE REMOVED.

    WALL, COLUMNS, & BEAM SIDES.....40%
    JOIST PANS & BEAM BOTTOMS (IF RESHORED).....70%
    SHORING FOR FLOOR SYSTEMS (IF NOT RESHORED).....85%

18. NO CONCRETE SHALL BE PLACED OUTSIDE OF THESE SPECIFICATIONS WITHOUT THE OWNER'S PRIOR APPROVAL. ANY ITEMS NOT IN COMPLIANCE WITH THE OUTLINED SPECIFICATION SHALL BE REPORTED TO THE OWNER AND STRUCTURAL ENGINEER WITHIN 24 HOURS.

19. CONSTRUCTION VEHICLE LOADS SHALL NOT BE PERMITTED ON ELEVATED SLABS AT ANY TIME.

20. ALL RETAINING WALLS TO BE SHORED UNTIL UPPER SLAB IS IN PLACE AND HAS REACHED 70% OF ITS DESIGN STRENGTH OR THE RETAINING WALL HAS REACHED 100% OF ITS DESIGN STRENGTH. PROVIDE GRANULAR BACKFILL AND PERFORATED DRAIN PIPE CONNECTED TO SITE DRAINAGE, RE: CIVIL PLAN.

STEEL REINFORCING

1. ALL REINFORCEMENT SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A-615 GRADE 60.

2. REINFORCING STEEL SHALL BE DESIGNED, DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH THE LATEST ACI DETAILING MANUAL (SP-66) AND CSRI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE, (ACI #315) LATEST EDITIONS.

3. BARS SCHEDULED OR DETAILED "CONT" SHALL BE SPLICED ONLY WHEN UNAVOIDABLE AT POINTS OF MINIMUM STRESS AND WITH A MINIMUM LAP AS FOLLOWS:
    A. HORIZONTAL BARS w/ MORE THAN 12" OF FRESH CONCRETE CAST BELOW LAPS.
    #6 BARS AND SMALLER - 57 BAR DIAMETERS
    #7 BARS AND BIGGER - 72 BAR DIAMETERS
    B. OTHER BARS
    #6 BARS AND SMALLER - 44 BAR DIAMETERS
    #7 BARS AND BIGGER - 55 BAR DIAMETERS
    C. ALL SPLICES TO BE STAGGERED A MINIMUM OF 4'-0". TOP BAR AND BOTTOM BAR SPLICES TO BE LOCATED AT MID-SPAN AND WITHIN 1/3 SPAN RESPECTIVELY.

4. CORNER REINFORCING BARS SHALL BE USED AT ALL CORNERS AND INTERSECTIONS.

5. EXTEND THE SLAB REINFORCING STEEL PERPENDICULAR TO EXTERIOR GRADE BEAM TO THE TOP OUT SIDE REINFORCING BAR OF BEAM.

6. SPACE REINFORCING BARS WITH MINIMUM CLEAR SPACING IN ACCORDANCE WITH ACI 318 OF ONE BAR DIAMETER, BUT NOT LESS THAN 1 INCH. FOR COMPRESSION MEMBERS, SPACE AT A MINIMUM OF 1.5 INCHES OR 1.5 BAR DIAMETERS, WHICHEVER IS GREATER.

7. WHERE REINFORCING BARS ARE PLACED IN MULTIPLE LAYERS, PLACE UPPER BARS DIRECTLY ABOVE LOWER BARS.

8. MAINTAIN CONCRETE COVER AROUND REINFORCEMENT IN ACCORDANCE WITH ACI 318 AND AS FOLLOWS:

A. FOOTING AND CONCRETE CAST AGAINST EARTH	-	3 INCHES
B. EXPOSED TO EARTH OR WEATHER		
#6 BARS AND BIGGER	-	2 INCHES
#5 BARS AND SMALLER	-	1.5 INCHES
C. BEAMS AND COLUMNS	-	1.5 INCHES
D. SLABS AND WALLS	-	1 INCH

9. REPAIR ANY DAMAGE TO VAPOR RETARDER PER MANUFACTURER SPECIFICATIONS.

10. ADDITIONAL REINFORCING TO BE PROVIDED ON SITE FOR USE AS DIRECTED BY STRUCTURAL ENGINEER.
    #4 BARS -100 FT.
    #5 BARS -100 FT.
    #6 BARS -100 FT.

STEEL JOISTS

1. ALL STEEL JOISTS AND JOIST GIRDERS SHALL BE DETAILED, FABRICATED AND ERECTED PER AISC AND SJI SPECIFICATIONS FOR OPEN-WEB STEEL JOISTS.

2. STEEL JOISTS SHALL BE WELDED TO SUPPORTING MEMBERS UNLESS NOTED OTHERWISE.

3. JOIST BEARING SHALL BE A MINIMUM OF 2 1/2 INCHES WITH A MINIMUM 2 INCH LONG FILLET WELD EACH SIDE OF BEARING.

4. JOISTS AT COLUMN LOCATIONS OR CLOSEST JOIST TO COLUMN SHALL BE BOLTED.

5. PROVIDE BRIDGING IN ACCORDANCE WITH SJI SPECIFICATIONS. BRIDGING SHALL BE CONTINUOUS THROUGH STRUCTURAL STEEL MEMBERS, AND SHALL BE ANCHORED TO SPANDREL MEMBERS OR WALLS. PROVIDE ADDITIONAL BRIDGING WHERE REQUIRED FOR UPLIFT.

6. BOTTOM CHORD EXTENSIONS TO BE PROVIDED AS REQUIRED BY ARCHITECTURAL PLANS.

7. JOISTS SUPPORTING MECHANICAL UNITS TO BE DESIGNED FOR UNIT WEIGHT IN ADDITION TO GRAVITY LOADS SHOWN IN DESIGN CRITERIA.

8. REFER TO MECHANICAL ENGINEERING PLANS FOR EXACT UNIT WEIGHT AND LOCATIONS.

9. MECHANICAL EQUIPMENT SHALL BE SUPPORTED BY TOP CHORD OF JOIST ONLY.

10. PROVIDE SUPPORT ANGLES AROUND ANY OPENINGS IN ROOF DECK.

11. JOISTS AND ACCESSORIES SHALL BE PAINTED WITH ONE COAT OF RUST INHIBITIVE PAINT.

12. JOISTS TO BE DESIGNED PER LOADS SHOWN IN DESIGN CRITERIA.

13. DESIGN JOISTS FOR A 500 LB CONCENTRATED LOAD AT MIDSPAN TO ACT CONCURRENTLY WITH OTHER LOADS IN DESIGN CRITERIA.

14. JOIST MANUFACTURER SHALL DESIGN BOTTOM CHORDS OF ALL OPEN WEB JOISTS AND JOIST GIRDERS TO SUPPORT A 50 lb LOAD LOCATED ANYWHERE ALONG THE LENGTH OF THE CHORD.

15. HANGERS FOR MECHANICAL EQUIPMENT WITH REACTIONS IN EXCESS OF 50 lbs MUST BE LOCATED AT THE PANEL POINTS OF THE JOISTS. PROVIDE JOIST REINFORCING IN ACCORDANCE WITH THE TYPICAL DETAILS WHERE HANGERS ARE REQUIRED TO BE LOCATED MORE THAN 4 INCHES FROM THE JOIST PANEL POINTS.

16. PROVIDE FLAT BEARING FOR ALL JOISTS AND JOIST GIRDERS. BEAR JOISTS AND JOIST GIRDERS ON SUPPORTS IN ACCORDANCE WITH SJI SPECIFICATIONS.

17. PROVIDE 1/2" GAP AT ANY PENETRATIONS THROUGH CMU WALL AND INFILL WITH ELASTOMERIC MATERIAL.

18. STEEL JOISTS TO BE DESIGNED BY TEXAS REGISTERED PROFESSIONAL ENGINEER.

19. STEEL JOIST SHOP DRAWINGS SHALL BE SEALED BY A TEXAS REGISTERED PROFESSIONAL ENGINEER.

WOOD FRAMING NOTES

1. ALL FRAMING LUMBER SHALL BE #2 SOUTHERN PINE OR BETTER.

2. SILL PLATES IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED WOOD.

3. MINIMUM NAILING OF WOOD SHALL BE PER TABLE 2304.9.1 OF IBC 2012 UNLESS NOTED OTHERWISE ON DRAWINGS.

WOOD SHEATHING

1. SHEATHING FOR ROOF TO BE TYPE CDX EXT., STRUCTURAL I-APA RATED, 3/4" THICK, (32/16).

2. PLACE ROOF SHEATHING WITH END JOINTS STAGGERED. SECURE SHEETS OVER FIRM BEARING WITH 10D COMMON NAILS AT 6" O.C. AT PANEL EDGES, AT 7" O.C. AT INTERMEDIATE SUPPORTS. ALL SHEATHING TO BE PLACED PERPENDICULAR TO FRAMING MEMBERS.

CONTRACTOR NOTE

THE STRUCTURAL SYSTEM FOR THIS PROJECT SHALL NOT BE CONSTRUCTED BY USING THE STRUCTURAL DRAWINGS ALONE. THESE DRAWINGS WERE DEVELOPED FROM DATA DERIVED PRIMARILY FROM THE ARCHITECTURAL DRAWINGS AND SECONDARILY FROM MEP, CIVIL AND OTHER DISCIPLINES' DOCUMENTS. IT IS INTENDED THAT CONSTRUCTION PROCEED BY UTILIZING ALL OF THE INFORMATION CONTAINED IN THE ENTIRE SET OF CONSTRUCTION DOCUMENTS TAKEN AS A WHOLE; FAILURE TO DO SO WILL RESULT IN ERRORS WHICH SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.

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STATE OF TEXAS
MIGUEL CHANIN
93127
PROFESSIONAL ENGINEER
12-10-20

NO.	DATE	DESCRIPTION
		REVISIONS

HIDALGO COUNTY PRECINT No.4
NEW JUSTICE CENTER

HIDALGO COUNTY , TEXAS

1212 SOUTH 25TH TEXAS AVENUE, EDINBURG, TEXAS 78542

PROJECT NO: 20126
DATE: 12/11/2020 3:29:45 PM
STARTING DATE:
CK BY: MC DWN BY: VDV

GENERAL NOTES

S1.1

GENERAL NOTES

MASONRY

1. MATERIALS:
   A. CONCRETE BLOCK: MEDIUM WEIGHT ASTM C90 (HOLLOW) ASTM C145 (SOLID) MINIMUM COMPRESSIVE STRENGTH: 1900 PSI
   B. MORTAR: ASTM C270 TYPE S.
   C. GROUT: MINIMUM COMPRESSIVE STRENGTH: 2000 PSI
   D. NET AREA COMPRESSIVE STRENGTH: 1500 PSI TO BE TESTED IN ACCORDANCE TO ATSM C131 STANDARDS.
   E. JOINT REINFORCING: MILL GALVANIZED FINISH, 9 GAGE MINIMUM SIDE WIRES AND CROSS WIRES (DUR-O-WALL), A HOHMANN + BARNARD COMPANY.
   F. BAR REINFORCING: ASTM A615, GRADE 60 (UNLESS NOTED OTHERWISE).
   G. TYPICAL CMU WALL REINFORCING SHALL BE #5 (V) AT 48" O.C. AND #5 (H) AT 8'-0" O.C.. U.N.O. ON DRAWINGS.

2. REINFORCED MASONRY, WHERE VERTICAL BARS ARE TO BE GROUTED INTO CORES, THE FOLLOWING REQUIREMENTS APPLY:
   A. PROVIDE DOWELS FROM WALL, SAME SIZE AND SPACING AS WALL BARS. LAP 48 BAR DIAMETERS MINIMUM WITH WALL BAR.
   B. PROVIDE A CONTINUOUS VERTICAL CAVITY, AT LEAST 2" x 3" IN SIZE, FREE OF MORTAR DROPPINGS.
   C. PROVIDE REBAR ALIGNMENT DEVICES AT A MAXIMUM SPACING OF 96 BAR DIAMETERS (MINIMUM OF 2 PER BAR).
   D. AT SPLICES IN VERTICAL BARS, PROVIDE MECHANICAL COUPLERS OR 48 BAR DIAMETER LAP.
   E. ALL REINFORCEMENT MUST BE INSTALLED AND SECURELY ANCHORED IN PLACE PRIOR TO PLACEMENT OF GROUT.
   F. MAXIMUM HEIGHT OF GROUT LIFT = 4'-0'. UNLESS HIGH LIFT GROUTING PROCEDURES ARE EMPLOYED IN ACCORDANCE WITH ASI 530-99

3. MISCELLANEOUS:
   A. FILL CORE SOLID AROUND ANCHOR BOLTS.
   B. PROVIDE SOLIDLY FILLED HOLLOW BLOCKS AT ALL EMBED ANCHOR LOCATIONS.
   C. SET WELD PLATES IN BOND BEAMS AFTER THE GROUT IS PLACED, BUT WHILE IT IS STILL PLASTIC.
   D. HOLLOW MASONRY UNITS TO BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. WEBS SHALL ALSO BE BEDDED IN ALL COURSES OF PIERS, COLUMNS, AND PILASTERS, AND IN THE STARTING COURSE ON FOOTING, AND WHEN ADJACENT TO CELLS OR CAVITIES TO BE REINFORCED OR FILLED WITH CONCRETE OR GROUT. SOLID UNITS TO BE LAID WITH FULL HEAD AND BED JOINTS.
   E. PROVIDE JOINT REINFORCING AT 16 INCHES, EXCEPT AS NOTED.
   F. LAP JOINT REINFORCING 6 INCHES FOR STANDARD, 15 INCHES FOR HEAVY WEIGHT.
   G. VERTICAL CONTROL JOINTS SHALL BE PROVIDED FULL HEIGHT OF MASONRY WALLS AS LOCATED ON THE DRAWINGS. THE JOINT SHALL BE PROVIDED AS A CONTINUOUS HEAD JOINT WITH MORTAR RAKED BACK 3/4" AT BOTH FACES AND 50% OF THE HORIZONTAL JOINT REINFORCING CUT AT THE JOINT. AFTER THE MORTAR IS SET, THE JOINT SHALL BE CAULKED.
   H. FILL ALL VOIDS AND CELLS WITHIN 12" EITHER SIDE OF CENTERLINE OF BEAM AND/OR COLUMN BEARING LOCATIONS WITH A #4 REINFORCING BAR AND GROUT U.N.O.
   I. ALL CMU WALLS MUST HAVE SPECIAL INSPECTION PER IBC CODE 2012 SECTION 1705.4 "MASONRY CONSTRUCTION" ON CHAPTER 17-"STRUCTURAL TEST & SPECIAL INSPECTION". THE CONTRACTOR MUST PROVIDE REPORTS OF THESE "SPECIAL INSPECTIONS".
   J. BARS SCHEDULED "CONTINUOUS" SHALL BE SPLICED AS FOLLOWS:

REINFORCING BAR SIZE	MIN. LAP SPLICE LENGTH
#5	30"
#6	36"
#7	42"
#8	48"
#9	54"
#10	MECHANICAL CONNECTOR
#11	

4. STABILITY AND BRACING:
   ALL MASONRY WALLS SHOWN ON THE CONTRACT DRAWINGS HAVE BEEN DESIGNED TO RESIST THE REQUIRED CODE VERTICAL AND LATERAL FORCES APPLIED TO THEM IN THEIR FINAL CONSTRUCTED POSITION ONLY ASSUMING FULL BRACING AT TOP, BOTTOM, AND/OR SIDES AS INDICATED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT CONSTRUCTION RESIST ANY ERECTION VERTICAL OR LATERAL LOADS THAT COULD BE IMPOSED ON THE WALLS PRIOR TO CONSTRUCTION COMPLETION.

5. TESTING:
   A. TESTING FREQUENCY: ONE SET OF SPECIFIED TESTS FOR EVERY 5,000 SF OF COMPLETED WALL AREA.
   B. TESTING OF MORTAR MIX: IN ACCORDANCE WITH ASTM C780 FOR AGGREGATE RATIO AND WATER CONTENT, AIR CONTENT, CONSISTENCY, AND COMPREHENSIVE STRENGTH.
   C. TESTING OF GROUT MIX: IN ACCORDANCE WITH ASTM C1019 FOR COMPREHENSIVE STRENGTH, AND IN ACCORDANCE WITH ASTM C143/C143M FOR SLUMP.
   D. TEST COMPREHENSIVE STRENGTH OF MORTAR AND MASONRY TO ASTM C1314: TEST IN ACCORDANCE WITH MASONRY UNIT SECTIONS SPECIFIED.

6. GENERAL CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION MEETING WITH STRUCTURAL ENGINEER AND MASONRY CONTRACTOR BEFORE MASONRY WORK COMMENCES.

STRUCTURAL TESTS AND SPECIAL INSPECTION

1. THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THIS SECTION.

2. THE FOLLOWING TERMS AND PHRASES SHALL HAVE THE MEANINGS SHOWN BELOW AS IT PERTAINS TO THIS SECTION,
   A. APPROVED AGENCY - AN ESTABLISHED AND RECOGNIZED AGENCY REGULARLY ENGAGED IN CONDUCTING AND FURNISHING SPECIAL INSPECTION SERVICES.
   B. APPROVED FABRICATOR - AN ESTABLISHED AND QUALIFIED FIRM APPROVED BY BUILDING OFFICIAL. SPECIAL INSPECTIONS ARE NOT REQUIRED WHEN WORK IS PERFORMED ON THE PREMISES OF AN APPROVED FABRICATOR.
   C. SPECIAL INSPECTION, CONTINUOUS - THE FULL TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION.
   D. SPECIAL INSPECTION, PERIODIC - THE PART TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION.

3. SPECIAL INSPECTORS SHALL KEEP RECORDS OF ALL INSPECTIONS AND SHALL FURNISH REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED THEY SHALL BE BROUGHT TO THE ATTENTION OF THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.

4. SPECIAL INSPECTION FOR STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360.

5. SPECIAL INSPECTION FOR MASONRY CONSTRUCTION SHALL BE INSPECTED AND VERIFIED IN ACCORDANCE WITH TMS 402/ACI 530/ASCE 5 AND TMS 602/ACI 530.1/ASCE 6 QUALITY ASSURANCE PROGRAM REQUIREMENTS.

6. THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION.

TABLE 1705.2.2
REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD[a]
1. MATERIAL VERIFICATION OF COLD-FORMED STEEL DECK.			
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	———	X	APPLICABLE ASTM MATERIAL STANDARDS
b. MANUFACTURER'S CERTIFICATE TEST REPORTS.	———	X	———
2. INSPECTION OF WELDING:			
a. COLD-FORMED STEEL DECK:			
1) FLOOR AND ROOF DECK WELDS	———	X	AWS D1.3
b. REINFORCING STEEL:			
1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	———	X	
2) REINFORCING STEEL RESISTING FLEXUAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT.	X	———	AWS D1.4 ACI 318: SECTION 3.5.2
3) SHEAR REINFORCEMENT.	X	———	
4) OTHER REINFORCING STEEL.		X	

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD[a]	IBC REFERENCE
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:				
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	———	X	APPLICABLE ASTM MATERIAL SPECIFICATIONS; AISC 360, SECTION A3.3	———
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	———	X	———	———
2. INSPECTION OF HIGH-STRENGTH BOLTING:				
a. BEARING-TYPE CONNECTIONS.	———	X	AISC 360, SECTION M2.5	———
b. SLIP-CRITICAL CONNECTIONS.	X	X		
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL:				
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	———	———	ASTM A 6 OR ASTM A568	———
b. MANUFACTURERS' CERTIFIED MILL TEST REPORTS.	———	———	ASTM A 6 OR ASTM A568	
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:				
a. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	———	———	AISC 360, SECTION A3.5	———
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	———	———	———	———
5. INSPECTION OF WELDING:	———	———		
a. STRUCTURAL STEEL:				
1) COMPLETE AND PARTIAL PENETRATION GROOVE WELDS.	X	———	AWS D1.1	———
2) MULTIPASS FILLET WELDS.	X	———		
3) SINGLE-PASS FILLET WELDS > 5/16"	X	———		
4) SINGLE-PASS FILLET WELDS ≤ 5/16"	———	X		
5) FLOOR AND ROOF DECK WELDS.	———	X	AWS D1.3	———
a. REINFORCING STEEL:	———	———		
1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	———	X	AWS D1.4 ACI 318: 3.5.2	———
2) REINFORCING STEEL-RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT.	X	———		
3) SHEAR REINFORCEMENT.	X	———		
4) OTHER REINFORCING STEEL.	———	X		
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS: a. DETAILS SUCH AS BRACING AND STIFFENING. b. MEMBER LOCATIONS. c. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	——— ——— ———	X ——— ———	———	———

TABLE 1705.6
REQUIRED VERIFICATION AND INSPECTION OF SOILS

VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	———	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	———	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	———	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	X	———
5. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	———	X

LEVEL 1 REQUIRED VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION

INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA		
	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC SECTION	ACI 530/ ASCE 5/[a] TMS 402	ACI 530.1/ ASCE 6/[a] TMS 602
1. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:					
a. PROPORTIONS OF SITE-PREPARED MORTAR.	———	X	———	———	Art. 2.6A
b. CONSTRUCTION OF MORTAR JOINTS.	———	X	———	———	Art. 3.3B
c. LOCATION OF REINFORCEMENT , CONNECTORS, PRE-STRESSING TENDONS AND ANCHORAGES.	———	X	———	———	Art. 3.4, 3.6A
d. PRE-STRESSING TECHNIQUE.	———	X	———	———	Art. 3.6B
e. GRADE AND SIZE OF PRE-STRESSING TENDONS AND ANCHORAGES.	———	X	———	———	Art. 2.4B, 2.4H
2. THE INSPECTION PROGRAM SHALL VERIFY:					
a. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.	———	X	———	———	Art. 3.3G
b. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION.	———	X	———	Sec. 1.2.2(e), 2.1.4, 3.1.6	———
c. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT	———	X	———	Sec. 1.13	Art. 2.4,3.4
d. WELDING OF REINFORCING BARS.	X	———	———	Sec. 2.1.10.7.2, 3.3.3.4(b)	———
e. PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F).	———	X	———	———	Art. 1.8C, 1.8D
f. APPLICATION AND MEASUREMENT OF PRE-STRESSING FORCE.	———	X	———	———	Art. 3.6B
3. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:					
a. GROUT SPACE IS CLEAN.	———	X	———	———	Art. 3.2D
b. PLACEMENT OF REINFORCEMENT AND CONNECTORS AND PRE-STRESSING TENDONS AND ANCHORAGES.	———	X	———	Sec. 1.13	Art. 3.4
c. PROPORTIONS OF SITE-PREPARED GROUT AND PRE-STRESSING GROUT FOR BONDED TENDONS.	———	X	———	———	Art. 2.6B
d. CONSTRUCTION OF MORTAR JOINTS.	———	X	———	———	Art. 3.3B
4. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS.	X	———	———	———	Art. 3.5
a. GROUTING OF PRE-STRESSING BONDED TENDONS.	X	———	———	———	Art. 3.6C
5. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED.	X	———	———	———	Art. 1.4
6. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.	———	X	———	———	Art. 1.5

TABLE 1705.3
REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD[a]	IBC REFERENCE
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	———	X	ACI 318: 3.5, 7.1-7.7	1910.4
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1705.2.2, ITEM 2b.	———	———	AWS D1.4 ACI 318: 3.5.2	———
3. INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.	———	X	ACI 318: 8.1.3, 21.2.8	1908.5 1909.1
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.	———	X	ACI 318: 3.86, 8.1.3, 21.2.8	1909.1
4. VERIFYING USE OF REQUIRED DESIGN MIX.	———	X	ACI 318: Ch. 4, 5.2-5.4	1904.2, 1910.2, 1910.3
6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	———	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1910.10
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	———	ACI 318: 5.9, 5.10	1910.6, 1910.7, 1910.8
8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	———	X	ACI 318: 5.11-5.13	1910.9
9. INSPECTION OF PRESTRESSED CONCRETE: a. APPLICATION OF PRESTRESSING FORCES. b. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC-FORCE-RESISTING SYSTEM.	X X	———	ACI 318: 18.20 ACI 318: 18.18.4	———
10. ERECTION OF PRECAST CONCRETE MEMBERS.	———	X	ACI 318: Ch.16	———
11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	———	X	ACI 318: 6.2	———
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	———	X	ACI 318: 6.1.1	———

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STATE OF TEXAS
MIGUEL CHANIN
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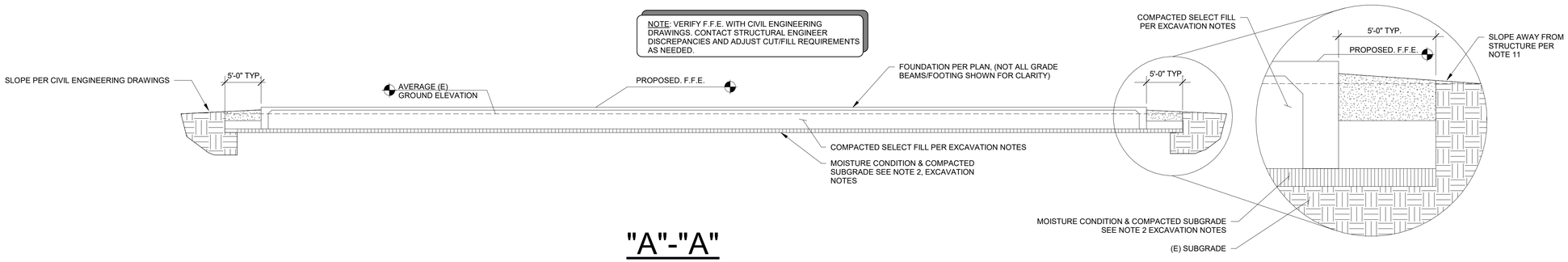
LICENSED
PROFESSIONAL ENGINEER
12-10-20

NO.	DATE	DESCRIPTION
		REVISIONS

HIDALGO COUNTY PRECINT No.4
NEW JUSTICE CENTER
HIDALGO COUNTY , TEXAS
1212 SOUTH 25TH TEXAS AVENUE, EDINBURG, TEXAS 78542

PROJECT NO: 20126
DATE: 12/11/2020 3:29:47 PM
STARTING DATE:
CK BY: MC. DWN BY: VDV
GENERAL NOTES

S1.2



"A"-"A"

PROFILE

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EXCAVATION NOTES:

1. CONSTRUCTION AREAS REMOVE AT LEAST 12 INCHES OF TOP SOIL, VEGETATION, DEBRIS, ETC., FROM THE PROPOSED BUILDING AREA TO A DISTANCE OF 5'-0" OUTSIDE THE BUILDING LINE PROPOSED.

2. EXPOSED SUBGRADE SHOULD BE MOISTURE CONDITIONED, COMPACTED, AND TESTED (MM DEPTH OF 12") TO A RANGE OF OPTIMUM MOISTURE CONTENT TO +3% . ABOVE OPTIMUM AND A MINIMUM 95% OF THE MAXIMUM DRY DENSITY, AS DETERMINED BY ASTM D-698. ANY SOFT AND/OR COMPRESSIBLE SOFT SPOTS NOTED DURING COMPACTION ACTIVITIES SHALL BE ORER-EXCARATEL AND REPLACED WITH SELECTED FILL

3. FILL BACK TO REQUIRED GRADE. (A MINIMUM OF 12" OF SELECT FILL IS REQUIRED) REFER TO CIVIL PLANS FOR FINISHED FLOOR ELEVATION TO DETERMINE ADDITIONAL AMOUNT OF STRUCTURAL FILL NEEDED) WITH MATERIAL SELECTED AND COMPACTED IN ACCORDANCE WITH THE REQUIREMENTS BELOW.

4. MATERIALS USED FOR SELECT FILL (GENERAL SITE GRADING) SHALL MEET THE FOLLOWING REQUIREMENTS:

   A. SOILS CLASSIFIED ACCORDING TO USCS AS SM, SC, GM, GC, CL, ML, AND COMBINATIONS OF THESE SOILS. THE SOIL SHALL BE FREE OF ORGANIC MATTER. IN ADDITION TO THE USCS CLASSIFICATION, SELECTED MATERIALS SHALL HAVE A LIQUID LIMIT OF LESS THAN 40 AND PLASTICITY INDEX BETWEEN 8 AND 20.

   B. SOIL CLASSIFIED, AS CH, MH, OH, OL, AND PT, UNDER THE USCS ARE NOT CONSIDERED SUITABLE FOR USED AS SELECTED FILL MATERIALS AT THIS SITE.

   C. L & G RECOMMENDS ADDITIONAL QUALITY CONTROL OF ALL SITE FILL MATERIALS AS THEY ARE PLACED AND COMPACTED TO ENSURE THAT THEY MEET THE REQUIREMENTS SPECIFIED.

5. SELECTED FILL UNDER ALL FLOORS AND WALKS SHALL BE COMPACTED IN THE FIELD IN LIFTS NOT TO EXCEED 8" TO 95% OF THE MAXIMUM DENSITY, TO A RANGE OF OPTIMUM TO +3% ABOVE OF THE OPTIMUM MOISTURE CONTENT, AS DETERMINED BY TEST METHOD ASTM D-698.

6. MATERIALS USED FOR STRUCTURAL FILL SHALL MEET ONE OF THE FOLLOWING REQUIREMENTS OF TX DOT 2014 SPECIFICATION:

   A. ITEM 247 TYPE E, GRADE 4 - CALICHE

RETAINED ON Sq. SIEVE	PERCENT RETAINED
2"	0
1/2"	20-60
No. 4	40-75
No. 40	70-90
PLASTICITY INDEX, MAX	15
WET BALL PI, MAX	15
WET BALL MILL, % MAX	50

   B. ITEM 247 TYPE A, GRADE 1- LIMESTONE

RETAINED ON Sq. SIEVE	PERCENT RETAINED
2-1/2"	0
1-3/4"	0-10
7/8"	10-35
3/8"	30-65
NO. 4	45-75
NO. 40	65-90
PLASTIC LIMIT, % MAX	40
PLASTICITY INDEX, % MAX	10
WET BALL MILL, % MAX	40

7. STRUCTURAL FILL SHALL BE COMPACTED TO A MINIMUM 98 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE ASTM D698 AT MOISTURE CONTENTS RANGING BETWEEN -2% ANS + 2% OF THE OPTIMUM MOISTURE CONTENT. FILL SHALL BE PLACED IN LOOSE LIFTS NOT TO EXCEED 8 INCHES. THE FILL SHOULD BE PROPERLY COMPACTED IN ACCORDANCE WITH THESE RECOMMENDATION AND TESTED FOR COMPACTION AS SPECIFIED.

8. SAMPLES OF PROPOSED SELECT FILL SHALL BE FURNISHED TO THE TESTING LABORATORY 7 DAYS PRIOR TO INSTALLATION TO PERMIT TIME FOR SPECIFICATION COMPLIANCE INSPECTION AND APPROVAL.

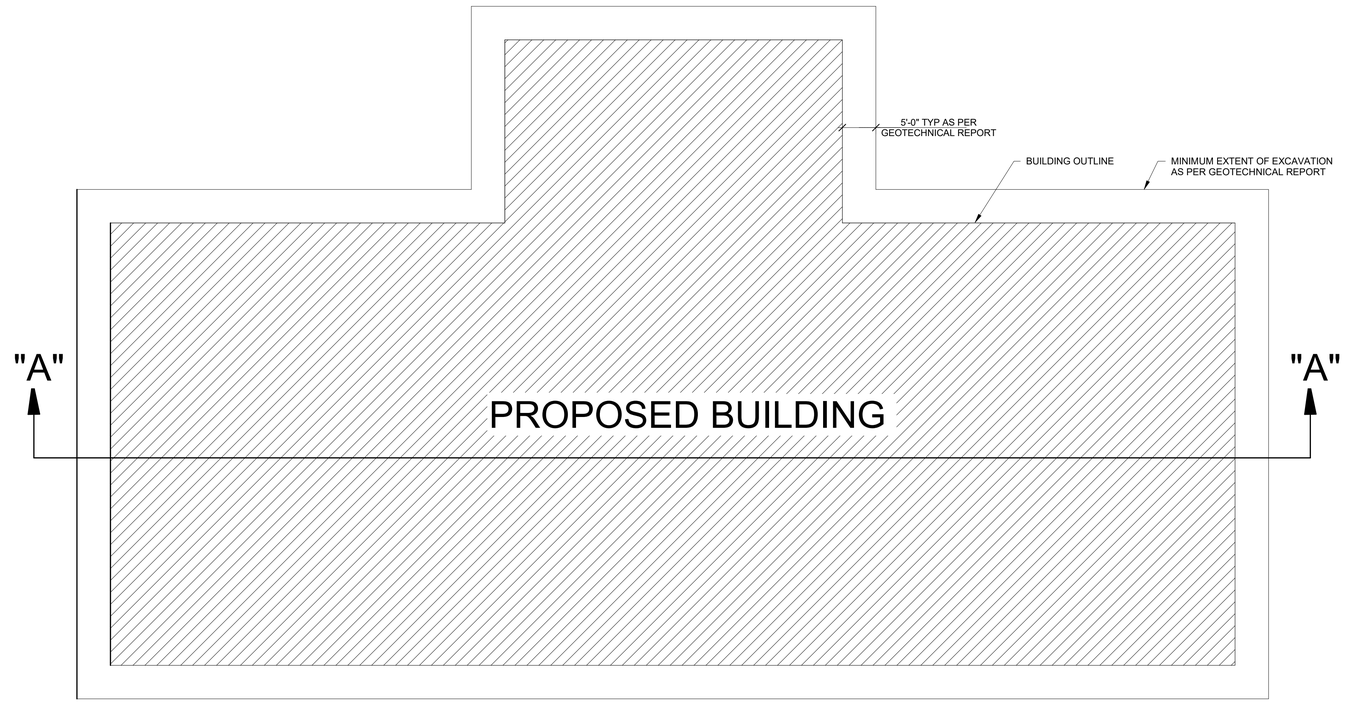
9. SITE PREPARATION TESTING SHALL BE AS FOLLOWS:
   A. ATTERBERG LIMITS OF SELECT FILL MATERIAL:
      (1) ONE TEST PER 5,000 CY

   B. COMPACTION TEST:
      TO BE PERFORMED PER LIFT ON TEST PER 3,000 SF MINIMUM
      OF (4) FOUR TEST PER LIFT

10. GEOTECHNICAL REPORT SHALL BE CONSIDERED A PART OF THE CONSTRUCTION DOCUMENTS. CONTRACTOR TO REVIEW AND COMPLY WITH ALL EARTHWORK AND GRADING REQUIREMENT IN GEOTECHNICAL REPORT.

11. FINAL SITE GRADING TO SLOPE AWAY FROM THE STRUCTURE AND SHALL PREVENT WATER FROM PONDING IN THE AREAS ADJACENT TO THE STRUCTURE FOR A MINIMUM DISTANCE OF 10'-0". ANY PONDING CLOSE TO THE STRUCTURE MAY CREATE VOLUMETRIC CHANGES IN THE SOIL AND MAY LEAD TO LESS THAN OPTIMUM PERFORMANCE OF THE BUILDING FOUNDATION.

12. IT IS ALSO IMPORTANT TO MINIMIZE CHANGES IN MOISTURE CONTENT CREATED BY ROOF DRAINAGE, PLUMBING LEAKS, LANDSCAPING / IRRIGATION, AND DOWNSPOUT OUTFALLS. ANY PLUMBING LEAKS SHALL BE REPAIRED AS SOON AS POSSIBLE AND PROPER DRAINAGE PROVIDED AWAY FROM THE BUILDING. LARGE BUSHES AND TREES SHALL NOT BE PLACED IN AREAS DIRECTLY ADJACENT TO THE FOUNDATION AS THEIR ROOT SYSTEM MAY CREATE SUBSTANTIAL MOISTURE DIFFERENTIALS THAT MAY LEAD TO VOLUME CHANGES IN THE SOIL. LARGE BUSHES AND TREES SHOULD BE LOCATED AT A REASONABLE DISTANCE FROM THE FOUNDATION.



EXCAVATION PLAN

N.T.S.

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STATE OF TEXAS
MIGUEL CHANIN
93127
PROFESSIONAL ENGINEER
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HIDALGO COUNTY , TEXAS

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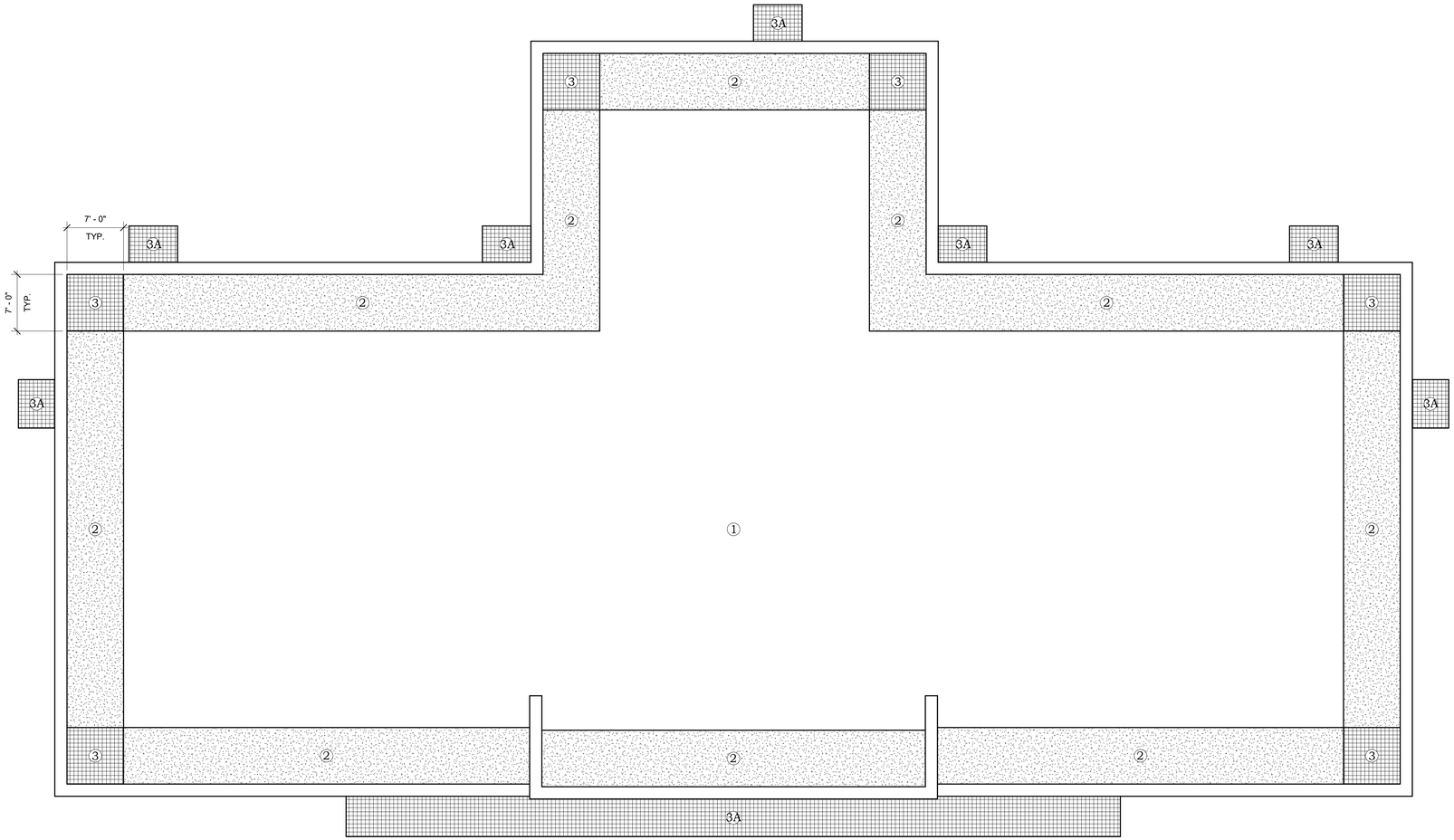
CK BY: MC DWN BY: VDV

EXCAVATION PLAN

S1.3



ROOF UPLIFT PLAN

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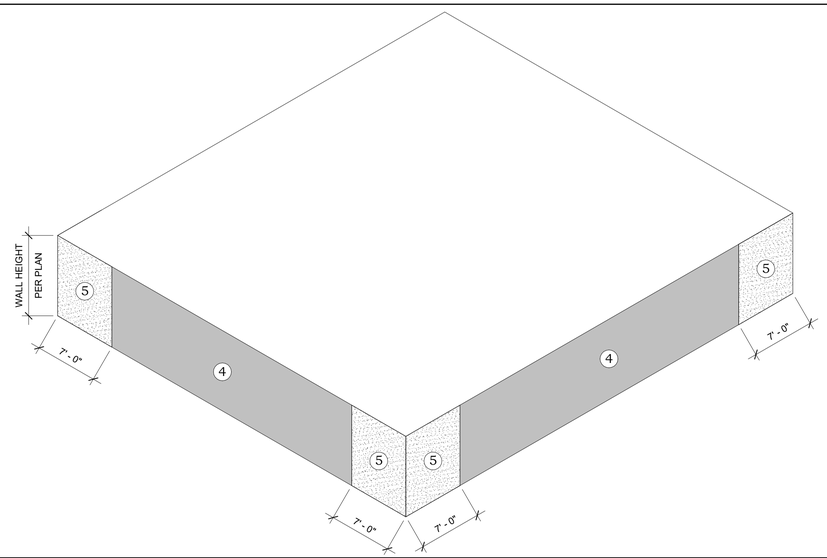
ALLOWABLE STRESS DESIGN (CANOPIES)

EFFECTIVE WIND AREA	ZONE	GROSS	NET
10	3A	-66.3psf	-60.6psf
20	3A	-33.3psf	-27.3psf
50	3A	-22.2psf	-16.2psf

ALLOWABLE STRESS DESIGN

EFFECTIVE WIND AREA	ZONE	GROSS	NET
10	1	-27.3psf	-33.3psf
20	1	-26.6psf	-32.6psf
50	1	-25.7psf	-31.7psf
10	2	-59.2psf	-65.2psf
20	2	-45.8psf	-51.8psf
50	2	-34.4psf	-40.4psf
10	3	-68.9psf	-74.9psf
20	3	-57.1psf	-63.1psf
50	3	-41.4psf	-47.4psf

WIND LOAD PLAN NOTES:
1. NEGATIVE PRESSURES DENOTE FORCE ACTING AWAY FROM BUILDING SURFACE (SUCTION).
2. PRESSURES FOR TRIBUTARY AREAS IN BETWEEN THE LISTED VALUES MAY BE LINEARY INTERPOLATED



COMPONENTS AND CLADDING

N.T.S.

2

ALLOWABLE STRESS DESIGN

EFFECTIVE WIND AREA	ZONE	MAX PRESSURE
10	4	±29.6psf
20	4	±28.4psf
50	4	±26.8psf
10	5	±36.5psf
20	5	±34.1psf
50	5	±30.8psf

WIND LOAD PLAN NOTES:
1. NEGATIVE PRESSURES DENOTE FORCE ACTING AWAY FROM BUILDING SURFACE (SUCTION).
2. PRESSURES FOR TRIBUTARY AREAS IN BETWEEN THE LISTED VALUES MAY BE LINEARY INTERPOLATED

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12-10-20

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REVISIONS

HIDALGO COUNTY PRECINT No.4
NEW JUSTICE CENTER

HIDALGO COUNTY , TEXAS

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PROJECT NO: 20126
DATE: 12/11/2020 3:29:49 PM
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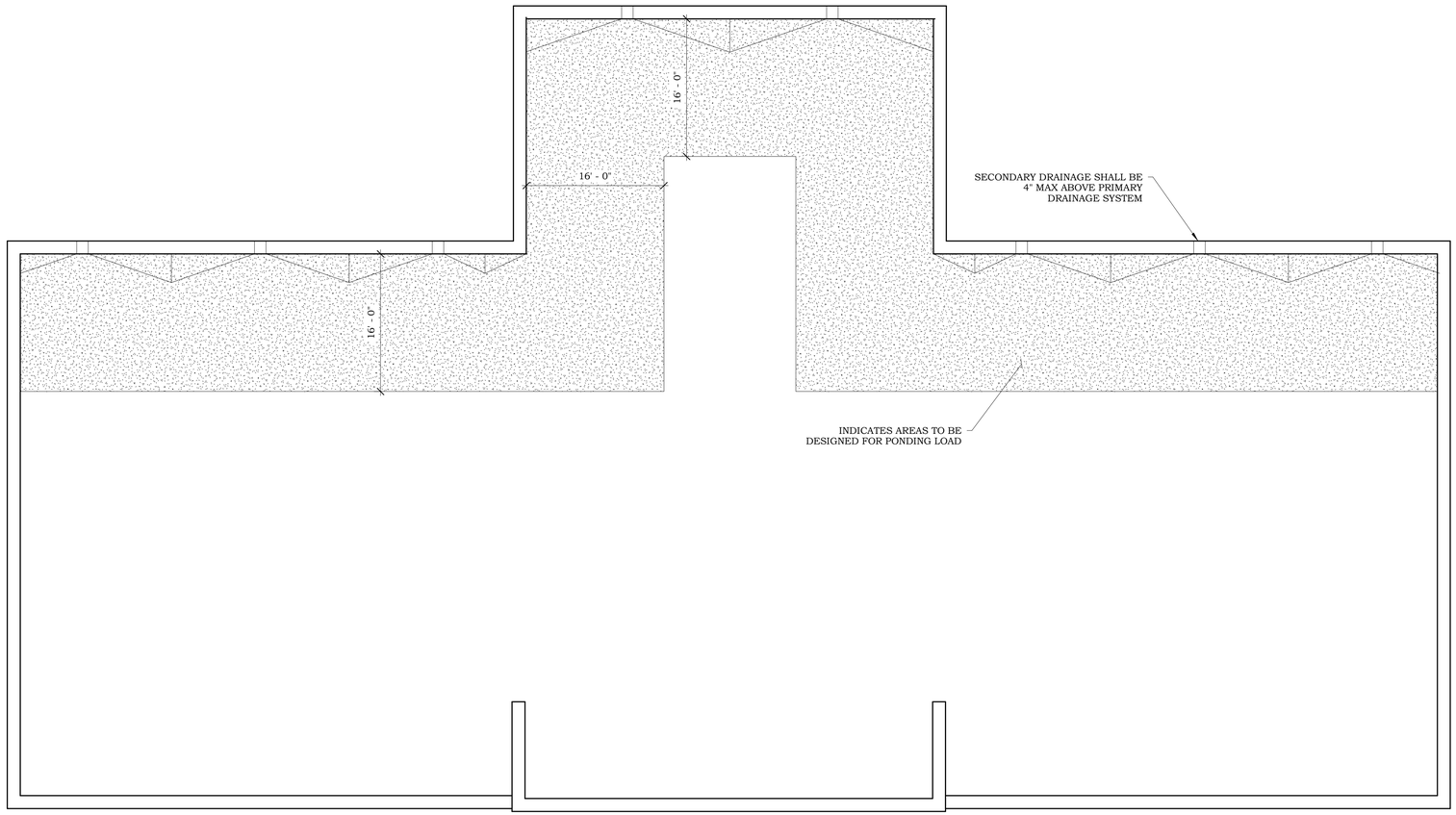
COMPONENTS AND CLADDING/ROOF UPLIFT PLAN

S1.4



PONDING LOAD	20.8 PSF

ROOF PONDING PLAN

1/8" = 1'-0"

1

N

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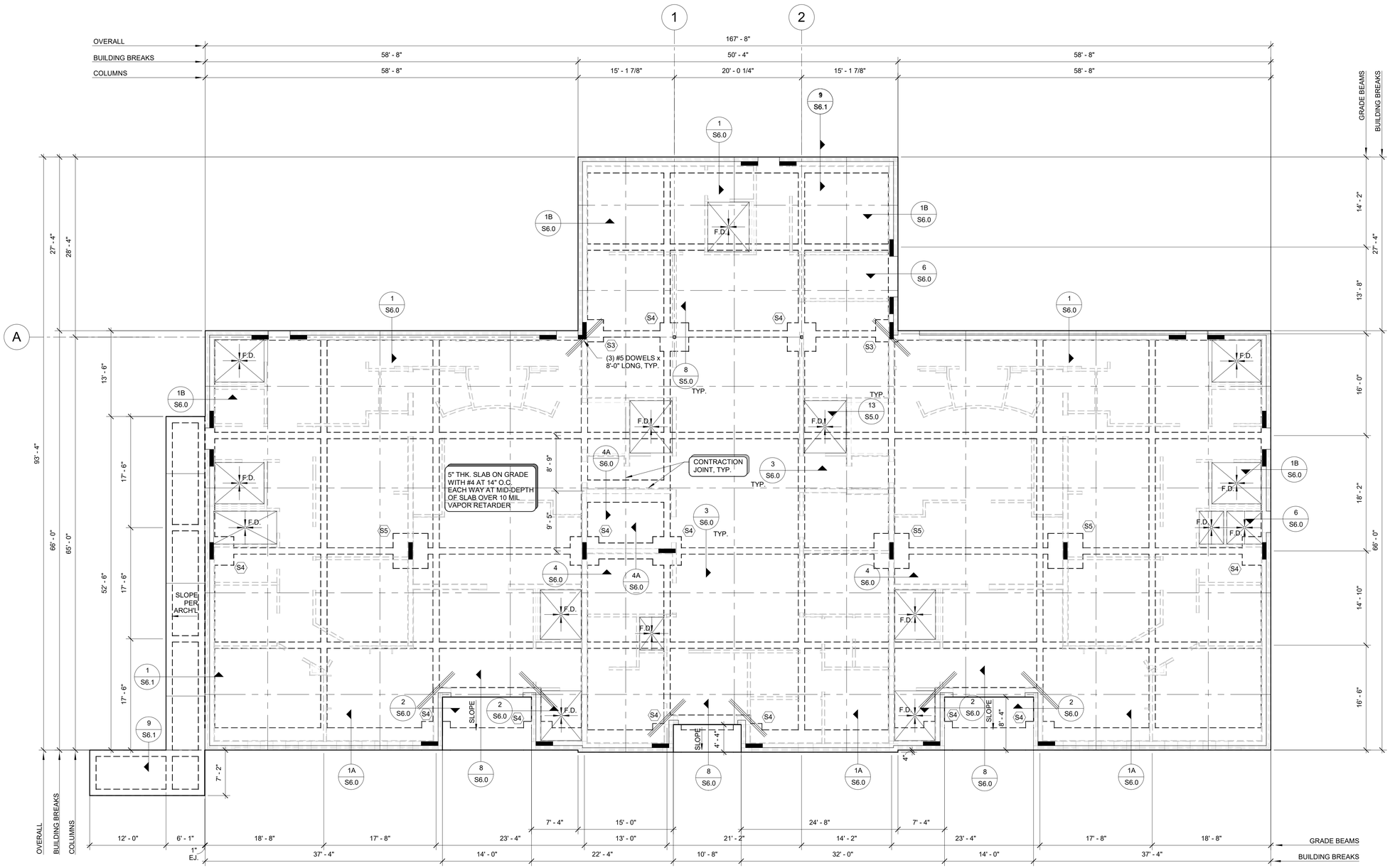
ROOF PONDING PLAN

S1.5



FOUNDATION NOTES:

1. CONTRACTOR TO VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS BEFORE COMMENCING WORK.
2. CONTRACTOR TO VERIFY LOCATION OF ANY/ALL DROPS AND DRAINS IN SLAB WITH ARCHITECTURAL DRAWINGS.
3. CONTRACTOR TO VERIFY REQUIRED F.F.E. WITH CIVIL ENGINEERING DRAWINGS.
4. REFER TO WALL LAYOUT PLAN, SHEET S3.0 FOR ALL COLUMN SIZES, O.N.O.

FOUNDATION PLAN

1/8" = 1'-0"

N

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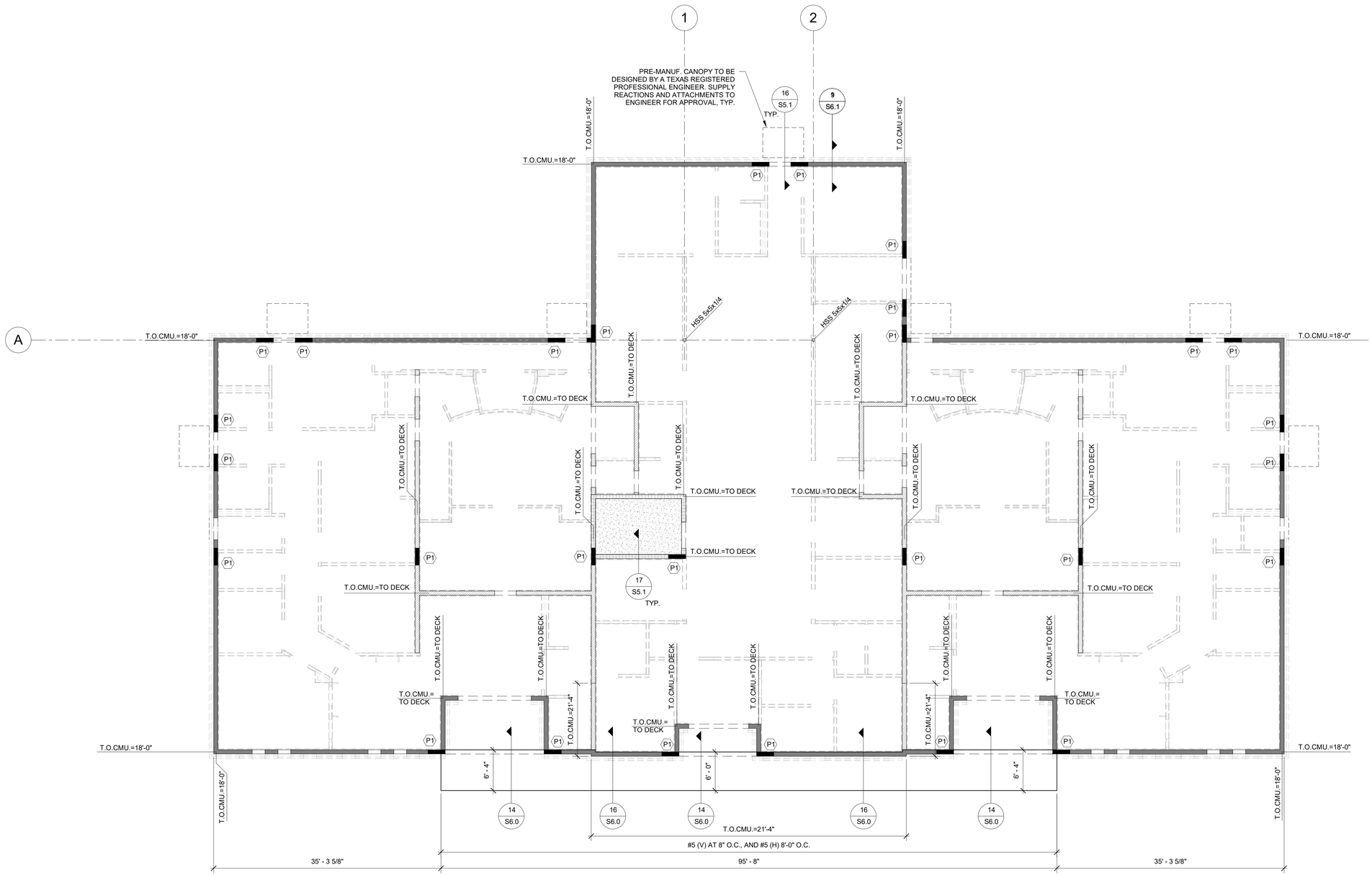
FOUNDATION PLAN

S2.0



CMU WALL LAYOUT NOTES:

1. IF ANY DISCREPANCIES ARE FOUND BETWEEN THESE DRAWINGS AND THE ARCHITECTURAL DRAWINGS THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER BEFORE COMMENCING CONSTRUCTION.
2. FOR TYPICAL CMU WALL CONSTRUCTION SEE SHEET S5.1.
3. FOR TYPICAL ATTACHMENT AT THE TOP OF ALL INTERIOR CMU WALLS (INCLUDING THOSE NOT SHOWN ON THIS PLAN) SEE DETAILS 14,15/S5.1.
4. ▓ INDICATES EXTERIOR 8" CMU WALL WITH #5 (V) AT 32" O.C. AND #5 (H) AT 8'-0" O.C., U.N.O.
5. ▨ INDICATES INTERIOR 8" CMU WALL WITH #5 (V) AT 48" O.C. AND #5 (H) AT 8'-0" O.C., U.N.O.
6. ▭ INDICATES CMU LINTEL, SEE DETAIL 7/S5.1.
7. FOR SPECIAL INSPECTION REQUIREMENTS SEE GENERAL NOTES.
8. ALL TOP OF WALLS FROM FINISH FLOOR ELEVATION 0'-0".
9. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION, LENGTH, AND HEIGHT OF ALL OPENINGS IN CMU WALLS.
10. FOR CONTROL JOINT LOCATIONS, SEE ARCHITECTURAL DRAWINGS.
11. PROVIDE CMU LINTEL OVER ALL MECHANICAL SYSTEM PENETRATIONS IN CMU WALL. COORDINATE WITH MEP DRAWINGS FOR ALL LOCATIONS.
12. 8" CMU WALL IS A NOMINAL DIMENSION, ACTUAL WIDTH IS 7 5/8".
13. (P1) INDICATES PILASTER "P1", SEE DETAIL 10/S5.1.
14. ▭ INDICATES INTERIOR FULLY GROUTED CMU WALL w/ #6 (V) AT 24" O.C., AND #5 (H) AT 8'-0" O.C., U.N.O.
15. ▭ INDICATES CONCRETE SLAB AT MID LEVEL. SEE DETAIL 17/S5.1 FOR MORE INFORMATION

WALL LAYOUT PLAN

1/8" = 1'-0"

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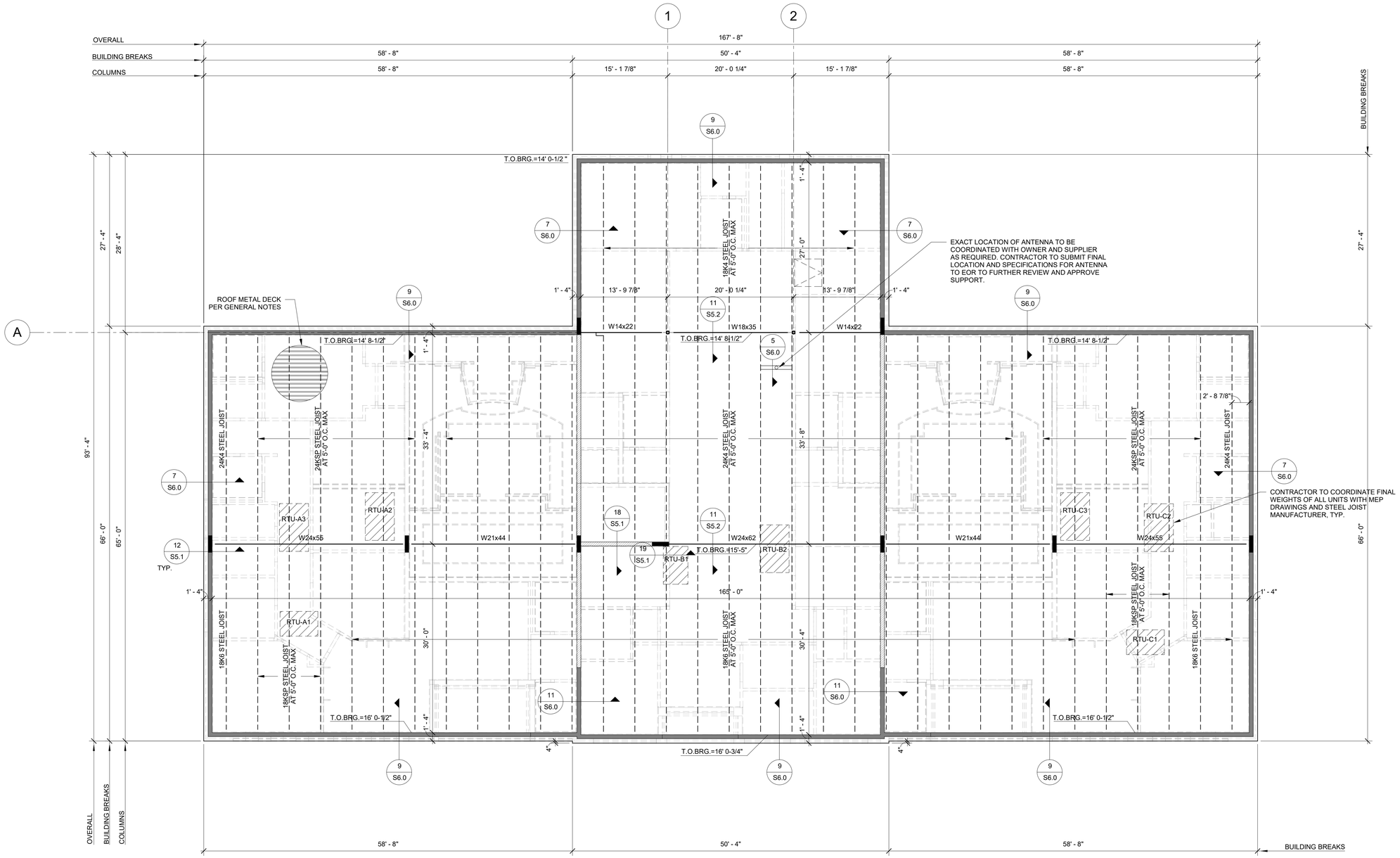
WALL LAYOUT PLAN

S3.0



FRAMING NOTES:

1. CONTRACTOR TO VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS BEFORE COMMENCING WORK.
2. REFER TO ARCHITECTURAL DRAWINGS FOR ANY ADDITIONAL DIMENSIONS.
3. JOIST MANUFACTURER TO PROVIDE ADEQUATE BRIDGING FOR JOISTS AS REQUIRED BY S.J.I.
4. CONTRACTOR TO COORDINATE ALL MECHANICAL,ELECTRICAL AND PLUMBING COMPONENTS SUPPORTED BY THE STRUCTURE WITH THE MANUFACTURER. THIS INCLUDES COORDINATING EXACT WEIGHT AND LOCATION, AND ALL NECESSARY ATTACHMENTS.
5. CONTRACTOR TO COORDINATE EXACT LOCATION AND SIZE OF ANY AND ALL ROOF HATCHES WITH ARCH'L DRAWINGS.
6. REFER TO M.E.P. DRAWINGS FOR ANY HOUSEKEEPING PADS AT MECHANICAL ROOMS.
7. STEEL FABRICATOR TO COORDINATE EXACT JOIST SPACING. STEEL JOIST LOCATIONS SHOWN ON STRUCTURAL DRAWINGS MAY BE ADJUSTED IN ORDER TO AVOID CONFLICTING STRUCTURAL MEMBERS AND CONDITIONS (SUCH AS STUB COLUMNS OR CONNECTIONS) AND IN ORDER TO ACHIEVE PROPER BEARING. ADD JOISTS AS NEEDED TO NOT EXCEED MAXIMUM SPACING SHOWN ON DRAWINGS.

ROOF FRAMING PLAN

1/8" = 1'-0"

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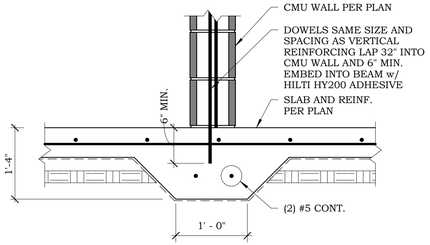
ROOF FRAMING PLAN

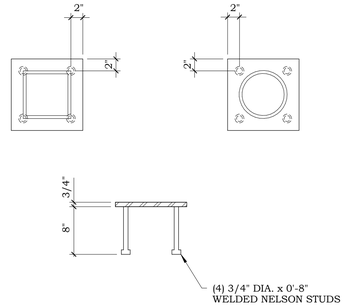
S4.0

NOT USED 17

THICKENED SLAB AT NON-BEARING CMU WALL 13

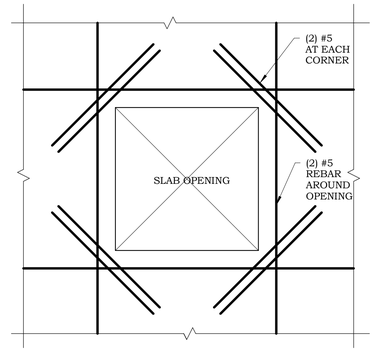


BASE PLATE DETAIL 9

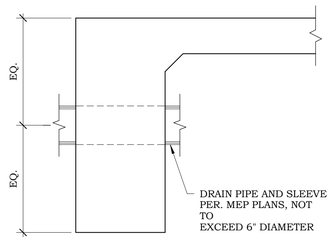


NOTE: DIMENSION FROM EDGE OF PLATE TO FACE OF COLUMN

OPENINGS IN SLAB 5

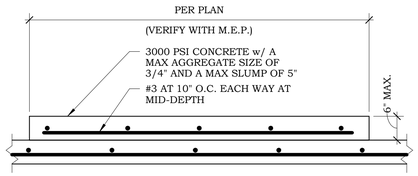


PIPE EXTERIOR FOOTING 1

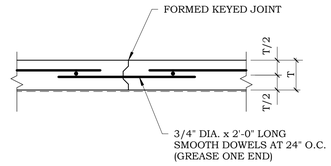


NOT USED 18

HOUSEKEEPING PAD 14

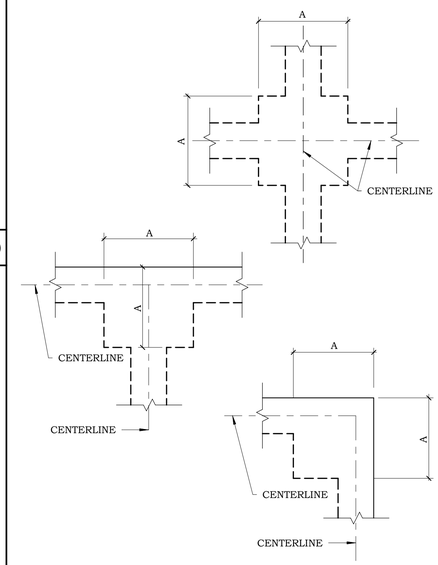


CONSTRUCTION JOINT DETAIL 10

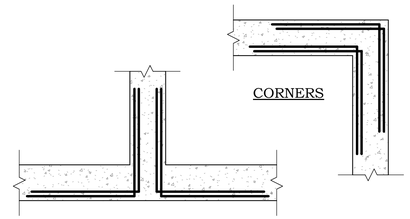


1. CONTRACTOR TO SUBMIT ANY PROPOSED LOCATIONS OF CONSTRUCTION JOINTS TO STRUCTURAL ENGINEER BEFORE COMMENCING WORK.
2. GRADE BEAM REINFORCING SHALL BE CONTINUOUS THRU JOINT

FOOTING SCHEDULE AT STEEL COLUMNS			
TYPE	A	DEPTH	REBAR REINFORCEMENT
S2	2'-6"	3'-0"	#5'S AT 12" O.C. E.W. TOP & BOTTOM
S3	3'-6"	3'-0"	#5'S AT 12" O.C. E.W. TOP & BOTTOM
S4	4'-6"	3'-0"	#5'S AT 12" O.C. E.W. TOP & BOTTOM
S5	5'-6"	3'-0"	#5'S AT 12" O.C. E.W. TOP & BOTTOM



TYPICAL CORNER BARS 2

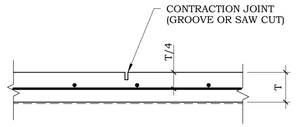


NOTE:
PROVIDE (4) #6 x 6'-0" CORNER BARS (2-TOP & 2-BOTTOM) AS SHOWN IN DETAILS ABOVE

NOT USED 19

NOT USED 15

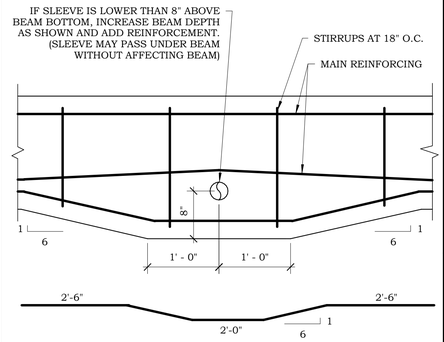
CONTRATION JOINT DETAIL 11



1. JOINT PATTERN SHALL BE NEARLY SQUARE
2. JOINT SPACING SHALL NOT EXCEED 15'-0"

FOOTING SCHEDULE 7

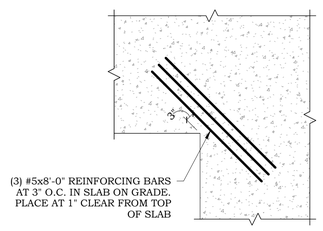
TYPICAL SLEEVE IN GRADE BEAM 3



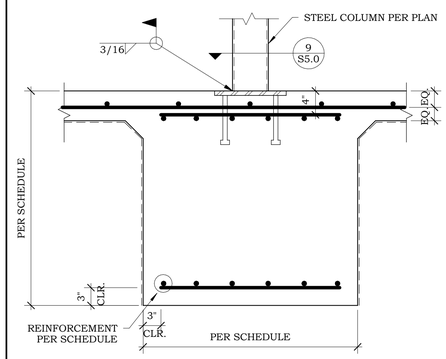
NOT USED 20

NOT USED 16

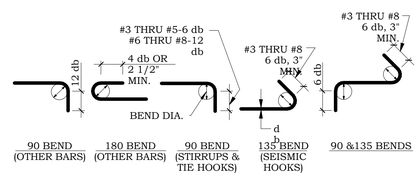
TYPICAL SLAB REINFORCING 12



FOOTING AT STEEL COLUMN 8



STANDARD HOOKS 4



DIAMETER OF BENDS	
STIRRUPS AND TIES	4 db FOR #3 THRU #5 BARS
	6 db FOR #6 THRU #8 BARS
ALL OTHERS	6 db FOR #3 THRU #8 BARS
	8 db FOR #9 THRU #11 BARS
	10 db FOR #14 THRU #18 BARS

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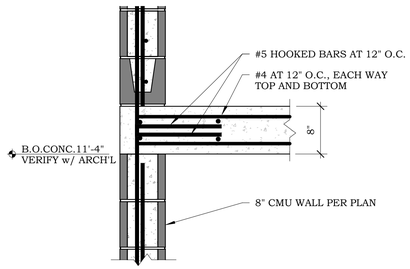
FOUNDATION TYPICAL DETAILS

S5.0



CONCRETE SLAB TO CMU WALL | 17

① TYPICAL WALL REINFORCING AS CALLED OUT IN PLANS AND GENERAL NOTES.

② VERTICAL REINFORCING AT CONTROL JOINTS, REFER TO DETAIL 8/S5.1

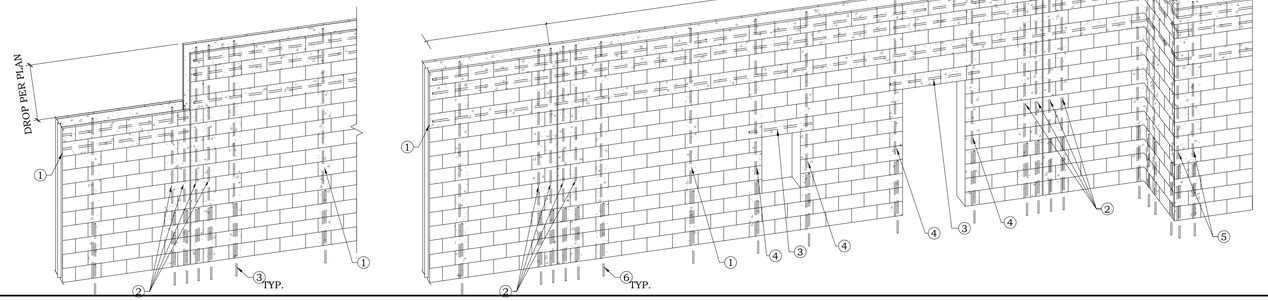
③ LINTELS PER LINTEL SCHEDULE, REFER TO DETAIL 7/S5.1

④ ADDITIONAL VERTICAL REINFORCING AT JAMBS OF ALL OPENINGS

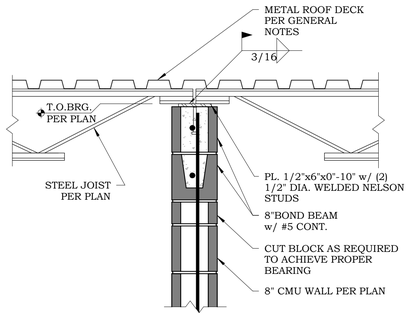
⑤ WALL CORNER REINFORCING, REFER TO DETAIL 2, 3, 4/S5.1

⑥ DOWELS TO MATCH VERTICAL REINFORCEMENT PER PLAN, TYPICAL

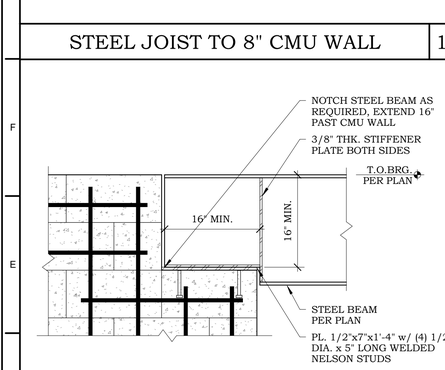
⑦ CONTROL JOINT SPACING AS NOTED IS MAXIMUM ALLOWED, COORDINATE CONTROL JOINT LOCATIONS w/ARCHITECTURAL PLANS.



TYPICAL CMU WALL CONSTRUCTION | 1

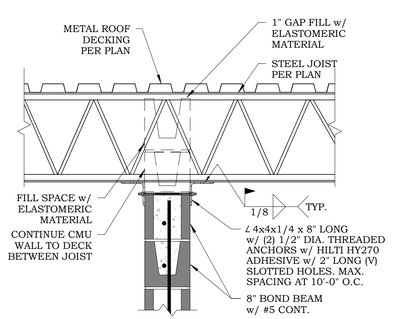


STEEL JOIST TO 8" CMU WALL | 18

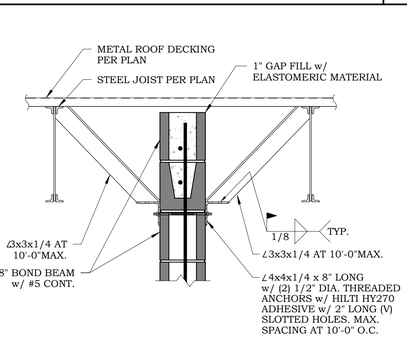


STEEL BEAM TO CMU WALL | 19

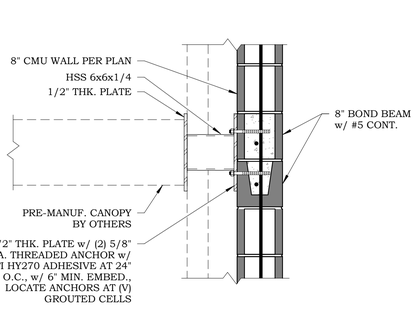
NOT USED | 20



CMU WALL TO DECK LATERAL BRACE | 14

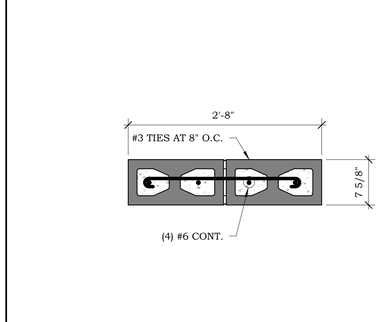


CMU WALL TO DECK LATERAL BRACE | 15

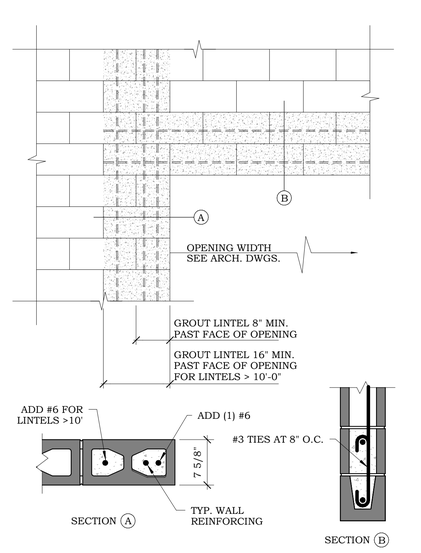


STEEL BEAM TO CMU WALL | 12

TYPICAL BOND BEAM INTERSECTION | 11



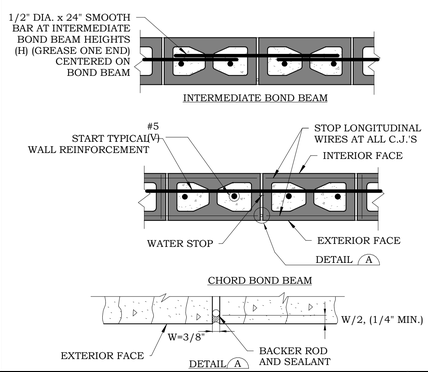
8" PILASTER "P1" | 10



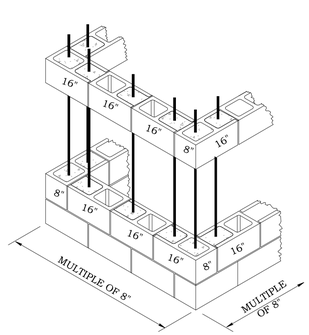
LINTEL SCHEDULE

CLEAR SPAN	WIDTH	DEPTH	REINFORCING	#3 TIES AT:	REMARKS
<3'-4"	8"	8"	(1)#5		
<4'-8"	8"	16"	(1)#5 (T) & (B)	8"	
<6'-8"	8"	16"	(1)#6 (T) & (B)	8"	
<10'-0"	8"	24"	(1)#6 (T) & (B)	8"	
<12'-0"	8"	24"	(1)#7 (T) & (B)	8"	

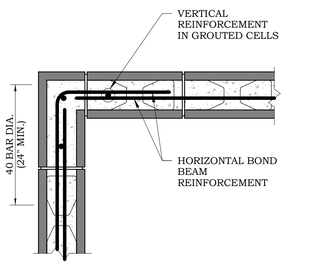
LINTEL SCHEDULE | 7



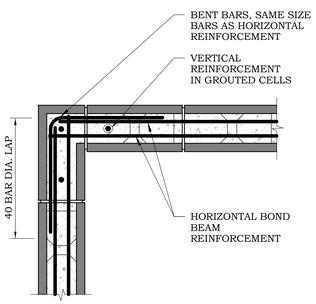
CMU EXPANSION JOINT (E.J.) | 8



TYPICAL CMU CORNER DETAIL | 2



TYPICAL BOND BEAM CORNER | 3



TYPICAL BOND BEAM CORNER | 4

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PROJECT NO: 20126
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STARTING DATE:
CK BY: MC. DWN BY: VDV

8" CMU WALL TYPICAL DETAILS

S5.1

NOT USED 17

NOT USED 18

NOT USED 19

NOT USED 20

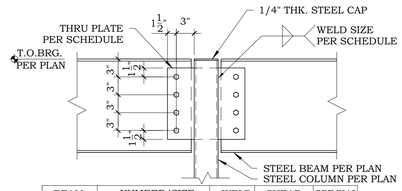
NOT USED 13

NOT USED 14

NOT USED 15

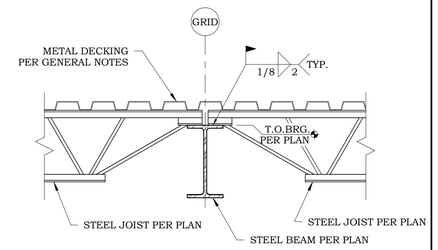
NOT USED 16

STEEL COLUMN TO STEEL BEAM CONNECTION 9



BEAM SIZE	NUMBER/SIZE OF BOLTS	WELD SIZE	SHEAR PLATE	SPECIAL NOTES
W8, W10	(2) 3/4" DIA. A325	1/4"	1/2" THK.	-
W12, W14	(3) 3/4" DIA. A325	1/4"	1/2" THK.	-
W16	(4) 3/4" DIA. A325	1/4"	1/2" THK.	-
W18	(5) 3/4" DIA. A325	1/4"	1/2" THK.	-
W21	(6) 3/4" DIA. A325	1/4"	1/2" THK.	-
W24	(7) 3/4" DIA. A325	1/4"	1/2" THK.	-
W27	(8) 3/4" DIA. A325	1/4"	1/2" THK.	-
W30	(9) 3/4" DIA. A325	1/4"	1/2" THK.	-

TYPICAL METAL DECK ATTACHMENT 10

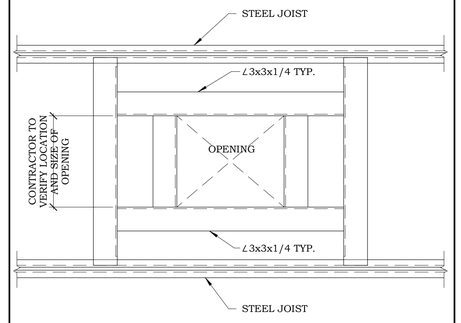


STEEL JOIST TO STEEL BEAM CONNECTION 11

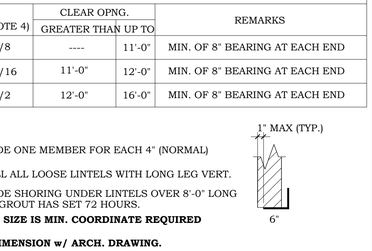
NOTE:
OFFSET STEEL JOIST TO ACHIEVE PROPER BEARING.

NOT USED 12

SUPPORT FOR HATCH OPENING 5



JOIST BRACING AT CONCENTRATED LOAD 6



STEEL LINTEL SCHEDULE 8

SIZE (MIN.-NOTE 4)	CLEAR OPNG. GREATER THAN	CLEAR OPNG. UP TO	REMARKS
∠6x6x3/8	----	11'-0"	MIN. OF 8" BEARING AT EACH END
∠8x6x7/16	11'-0"	12'-0"	MIN. OF 8" BEARING AT EACH END
∠8x6x1/2	12'-0"	16'-0"	MIN. OF 8" BEARING AT EACH END

NOTES:

1. PROVIDE ONE MEMBER FOR EACH 4" (NORMAL)
2. INSTALL ALL LOOSE LINTELS WITH LONG LEG VERT.
3. PROVIDE SHORING UNDER LINTELS OVER 8'-0" LONG UNTIL GROUT HAS SET 72 HOURS.
4. **ANGLE SIZE IS MIN. COORDINATE REQUIRED HORIZ.**
   LEG DIMENSION w/ ARCH. DRAWING.

1" MAX (TYP.)

6"

TYPICAL LINTEL DETAILS

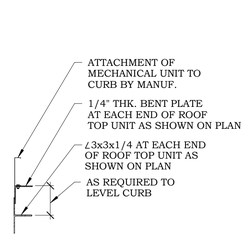
- FOR SUPPORT OF MASONRY WEIGHT ONLY.
- DEFLECTION AT ℄ ℓ/600.
- LINTELS SHALL BE GALVANIZED STEEL.

NOT USED 16

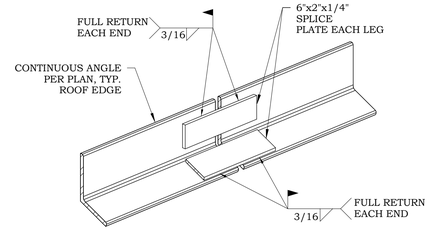
STEEL JOIST TO STEEL BEAM CONNECTION 11

NOTE:
OFFSET STEEL JOIST TO ACHIEVE PROPER BEARING.

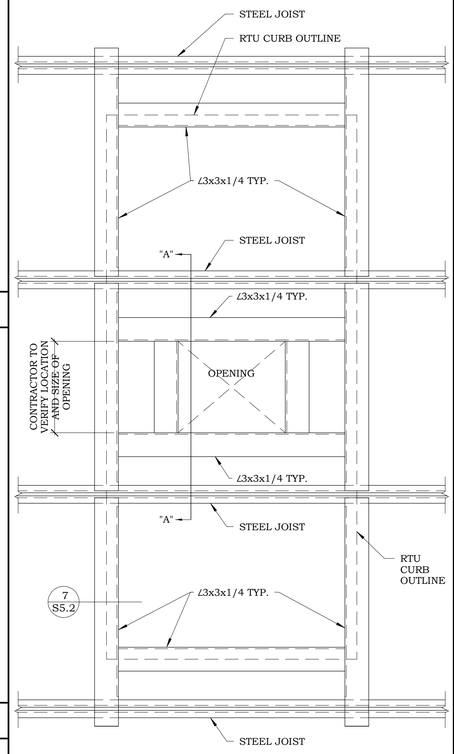
MECHANICAL CURB TO STEEL ANGLE 7



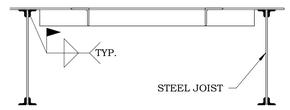
TYPICAL ROOF EDGE ANGLE SPLICE DETAIL 1



SUPPORT FOR MECHANICAL UNIT 4



PLAN VIEW



SECTION "A"-"A"

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1212 SOUTH 25TH TEXAS AVENUE, EDINBURG, TEXAS 78542

PROJECT NO: 20126
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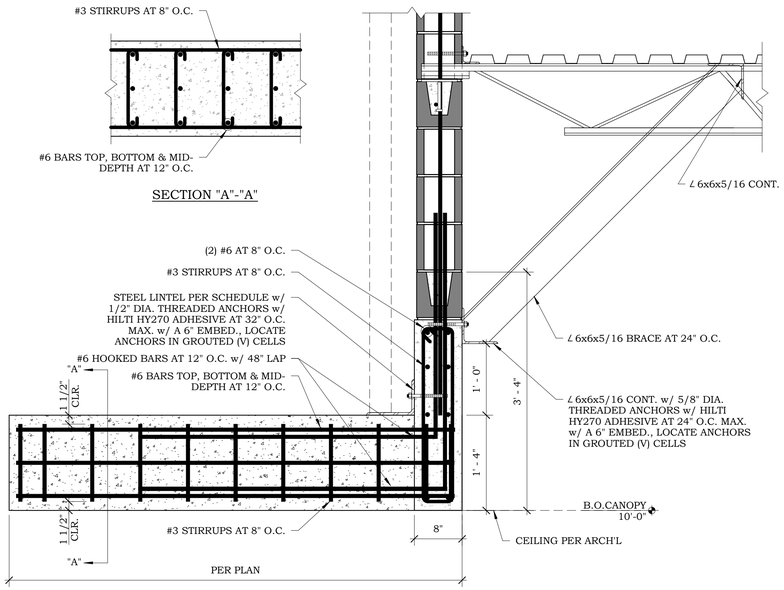
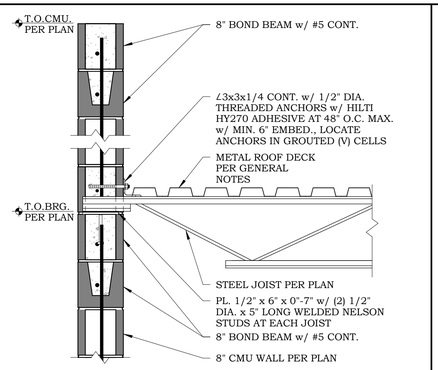
STARTING DATE:
CK BY: MC. DWN BY: R.VDV

STEEL TYPICAL DETAILS

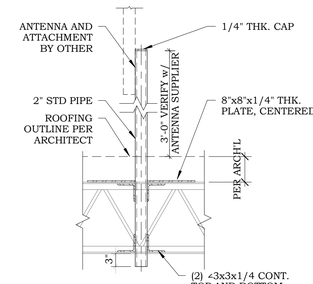
S5.2



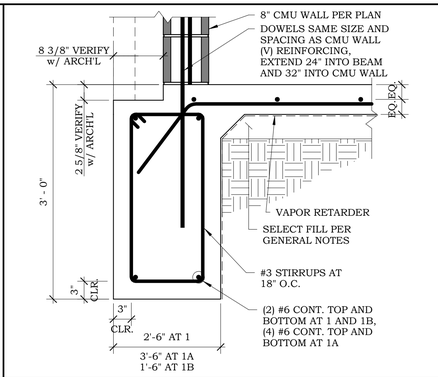
SECTION AT CONCRETE CANOPY | 14



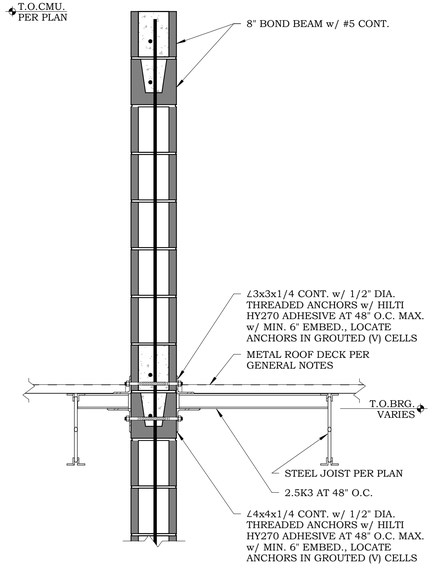
JOIST BEARING ON CMU WALL | 9



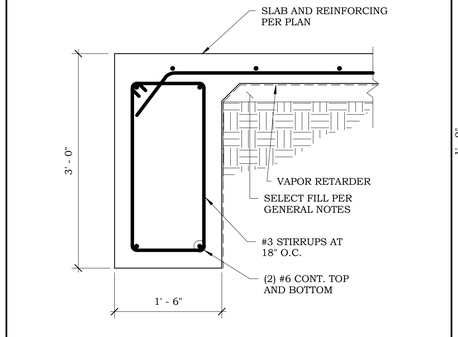
ANTENNA DETAIL | 5



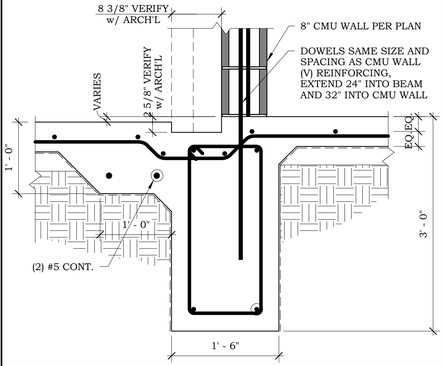
EXTERIOR GRADE BEAM | 1 | 1A | 1B



STEEL JOIST TO CMU WALL | 11



EXTERIOR GRADE BEAM | 6



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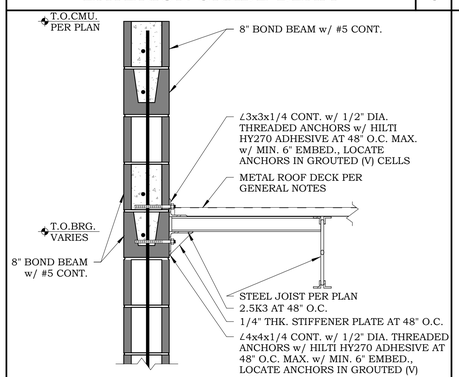
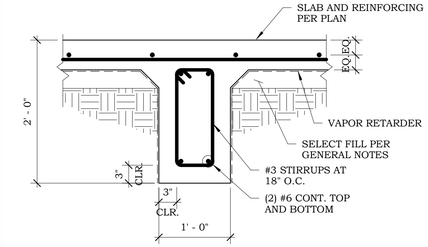
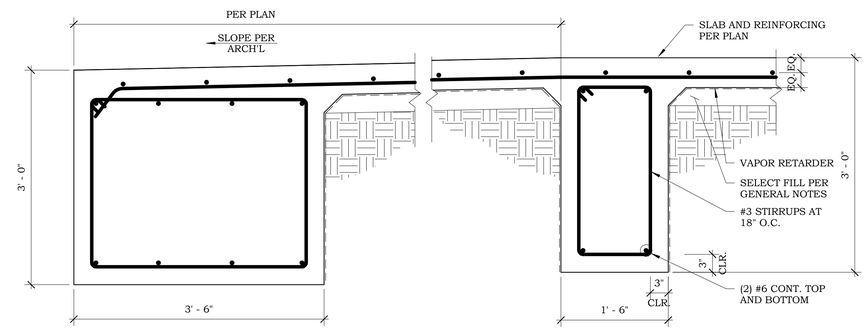


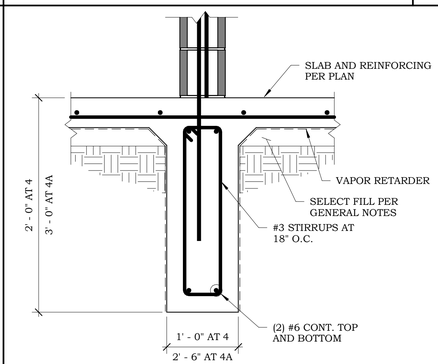
STEEL JOIST TO CMU WALL | 7



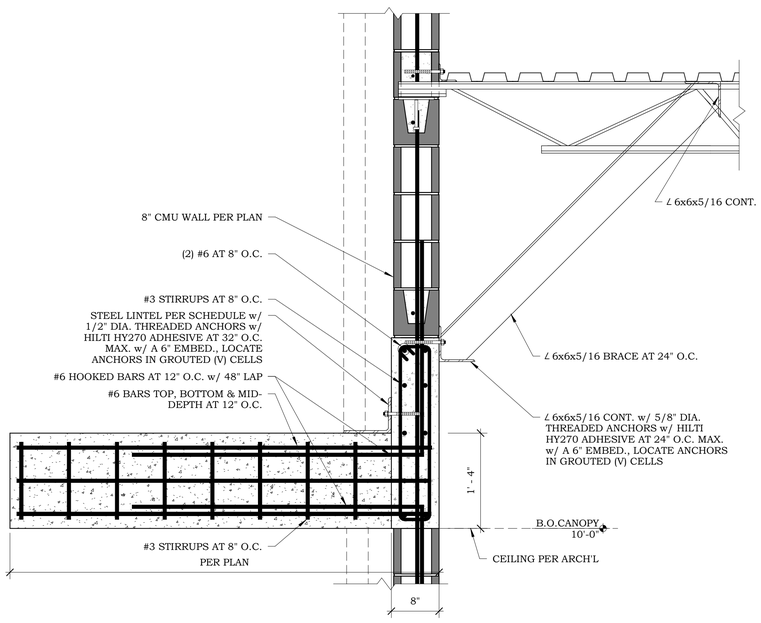
INTERIOR GRADE BEAM | 3



EXTERIOR GRADE BEAM | 8



INTERIOR GRADE BEAM | 4 | 4A



SECTION AT CONCRETE CANOPY | 16

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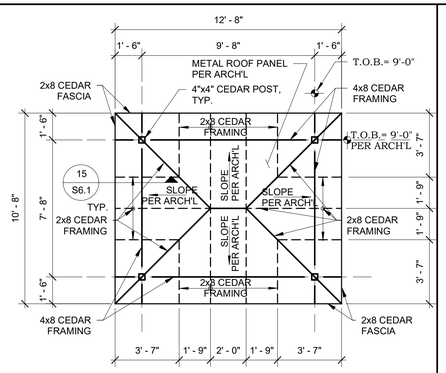
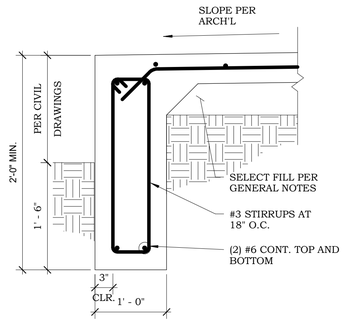
PROJECT NO: 20126
DATE: 12/11/2020 3:30:02 PM
STARTING DATE:
CK BY: MC. DWN BY: R.VDV
DETAILS

S6.0

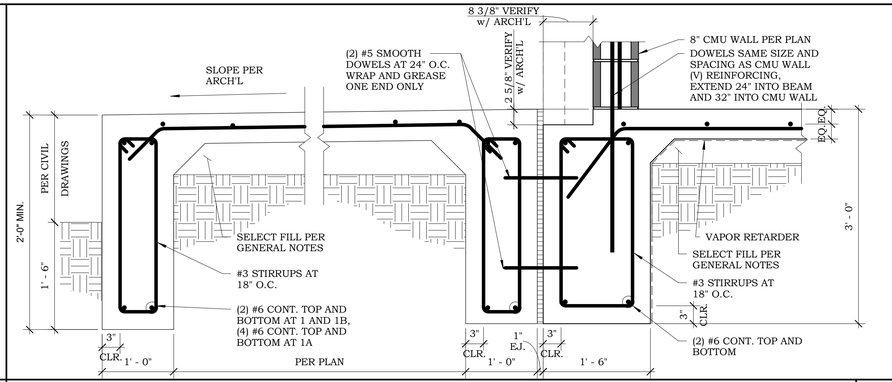
NOT USED | 17



K-9 KENNEL FRAMING PLAN | 13

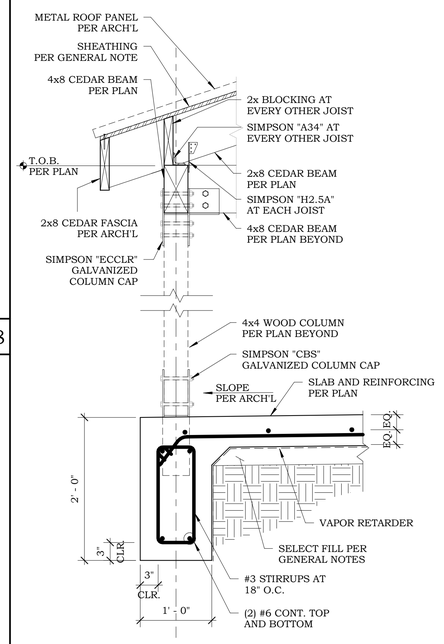


EXTERIOR GRADE BEAM | 9



EXTERIOR GRADE BEAM w/ SIDEWALK DETAIL | 1

NOT USED | 18



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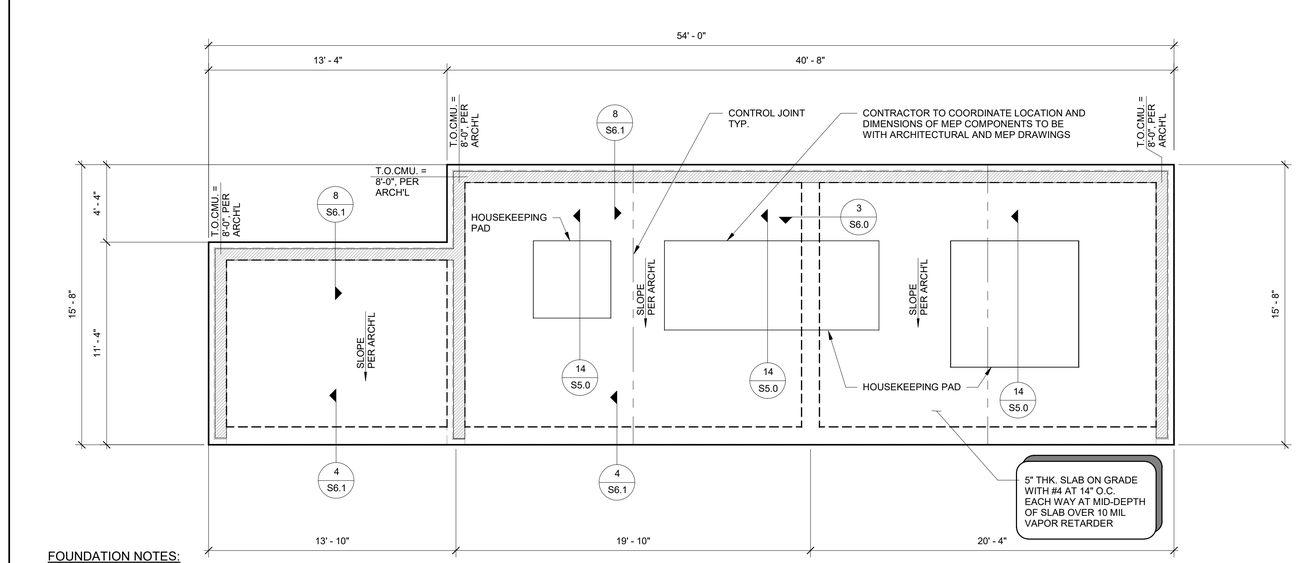
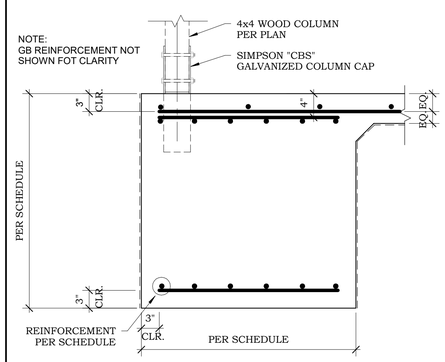


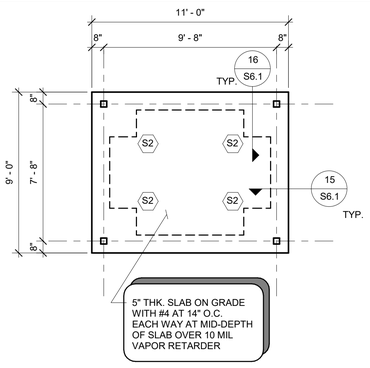
FOUNDATION NOTES:

1. CONTRACTOR TO VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS BEFORE COMMENCING WORK.
2. CONTRACTOR TO VERIFY LOCATION OF ANY/ALL DROPS AND DRAINS IN SLAB WITH ARCHITECTURAL DRAWINGS.
3. CONTRACTOR TO VERIFY REQUIRED F.F.E. WITH CIVIL ENGINEERING DRAWINGS.
4. INDICATES INTERIOR 8" CMU WALL WITH #5 (V) AT 48" O.C. AND #5 (H) AT 8'-0" O.C., U.N.O.
5. 8" CMU WALL IS A NOMINAL DIMENSION. ACTUAL WIDTH IS 7 5/8"
6. CONTRACTOR TO COORDINATE PIPE BOLLARD LOCATIONS AND CONCRETE FOOTING AND REINFORCEMENT REQUIRED WITH ARCHITECTURAL/ SUPPLIER DRAWINGS.

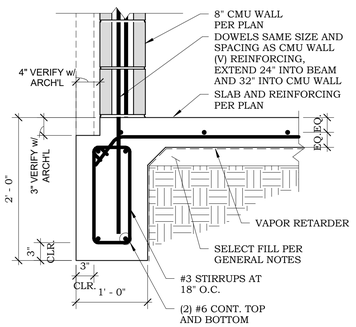
NOT USED | 20



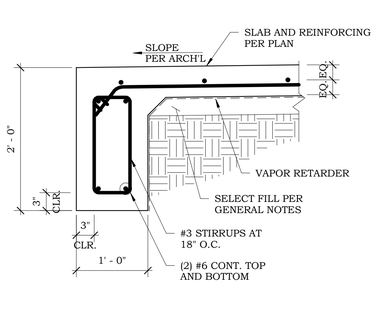
FOOTING AT WOOD COLUMN | 16



K-9 KENNEL FOUNDATION PLAN | 12



EXTERIOR GRADE BEAM | 8



EXTERIOR GRADE BEAM | 4

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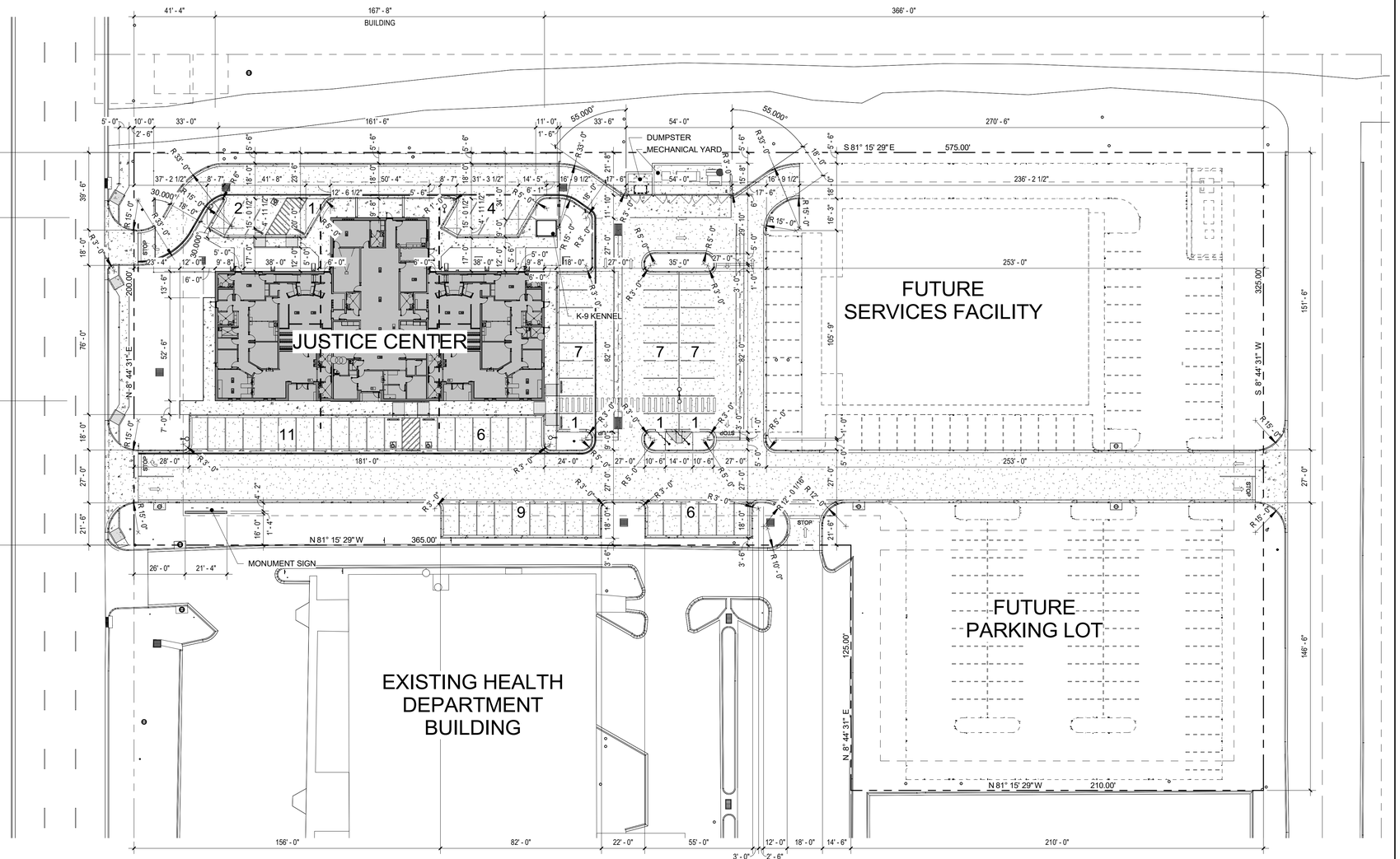
DATE: 12/11/2020 3:30:04 PM
STARTING DATE:
CK BY: Checker | DWN BY: Author

DETAILS

S6.1



OVERALL ARCHITECTURAL - SITE PLAN

1" = 30'-0"

N

ARTICLE 9 PARKING, LOADING, ACCESS, AND LIGHTING

DIVISION 9.200 PARKING AND LOADING CALCULATIONS

SEC. 9.201 PARKING AND LOADING REQUIREMENTS TABLE

A. MINIMUM OFF-STREET PARKING AND LOADING REQUIREMENTS. THE MINIMUM OFF-STREET PARKING AND LOADING REQUIREMENTS FOR THE USES SET OUT IN THIS CODE ARE SET OUT IN TABLE 9.201, *MINIMUM PARKING AND LOADING REQUIREMENTS*, BELOW.

TABLE 9.201
MINIMUM PARKING AND LOADING REQUIREMENTS

LAND USE	PARKING	LOADING
COMMERCIAL USES		
OFFICES - GENERAL	3 SPACES / 1,000 SF.	1 SPACE / 33,000 SF.

SEC. 9.302 ACCESSIBLE PARKING CALCULATIONS:

A. NUMBER OF ACCESSIBLE PARKING SPACES.

1. IN GENERAL, THE NUMBER OF ACCESSIBLE SPACES SHALL BE IN ACCORDANCE WITH TABLE 9.302A, *REQUIRED NUMBER OF OFF- STREET ACCESSIBLE PARKING SPACES*.

TABLE 9.302A
REQUIRED NUMBER OF OFF-STREET ACCESSIBLE PARKING SPACES

NUMBER OF PARKING SPACES PROVIDED	NUMBER OF ACCESSIBLE SPACES REQUIRED
51-75	**3**

PARKING CALCULATIONS:

12,442 S.F. TOTAL *JUSTICE CENTER* FLOOR AREA -
3 SPACES / 1,000 SF. = 38 PARKING SPACES

LOADING CALCULATIONS:

12,442 S.F. TOTAL *BUILDINGS* FLOOR AREA -
1 SPACE / 33,000 SF. = 0 LOADING SPACES

TOTAL PARKING REQUIRED:

TOTAL REQUIRED = 38 PARKING SPACES

TOTAL PARKING PROVIDED:

TOTAL PROVIDED = 63 PARKING SPACES
TOTAL ACCESSIBLE PROVIDED = 3 ACCESSIBLE PARKING SPACES

66 TOTAL COMBINED PARKING SPACES PROVIDED

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CONSULTANTS:

REGISTERED ARCHITECT
MICHAEL E. ALLEN
15101
STATE OF TEXAS

02.05.2021

NO.	DATE	REVISIONS DESCRIPTION

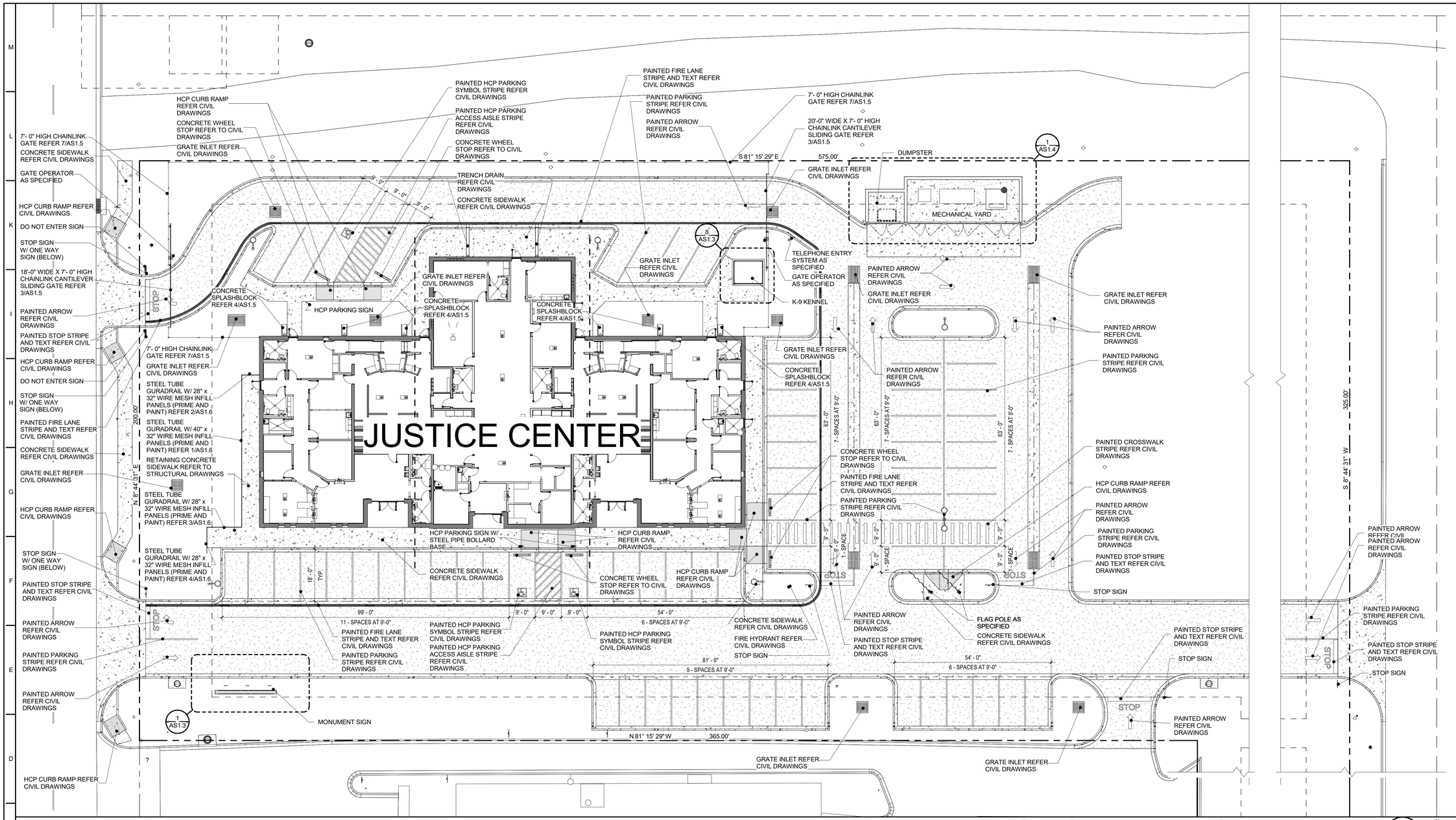
HIDALGO COUNTY PRECINCT No.4
NEW JUSTICE CENTER

HIDALGO COUNTY, TEXAS
1212 SOUTH 25TH AVENUE, EDINBURG, TEXAS 78542

PROJECT NO:	2018.19
DATE:	2/5/2021 11:35:12 AM
STARTING DATE:	
CK BY: Checker	DWN BY: Author

OVERALL ARCHITECTURAL - SITE PLAN

AS1.1



ARCHITECTURAL - PARTIAL SITE PLAN

1/16" = 1'-0"

GENERAL SITE NOTES

1. **REFER TO CIVIL DRAWINGS FOR SITE WORK. CONTRACTOR IS RESPONSIBLE FOR CONTRACTING ARCHITECT IN CASE OF DISCREPANCIES AND COORDINATING WITH CIVIL ENGINEER PRIOR TO PROCEEDING.**
2. **ALL EXTERIOR DOORS SHALL HAVE A LEVEL AREA IN FRONT OF THE DOOR WITH A 1:50 MAXIMUM SLOPE IN ALL DIRECTIONS. THE AREA SHALL BE A MINIMUM OF 5 FT. IN THE DIRECTION OF TRAVEL BY THE WIDTH OF THE SIDEWALK.**
3. **ALL EXTERIOR ALCOVES SHALL HAVE A 1:50 MAXIMUM SLOPE AND SHALL HAVE NO DROPS AT DOORS NOR AT CONNECTING SIDEWALKS.**
4. **ALL COVERED WALKWAYS SHALL HAVE 1:50 MAXIMUM CROSS SLOPE.THERE SHALL BE NO ABRUPT CHANGE IN ELEVATION ALONG ACCESSIBLE ROUTES AT SIDEWALKS AND COVERED WALKWAYS.**
5. **PROVIDE 2' X 4' CONCRETE SPLASH BLOCK AT DOWNSPOUT LOCATIONS. REFER TO 4/AS1.4**

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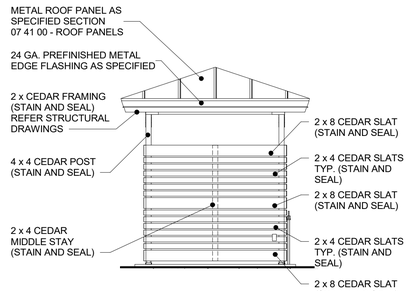
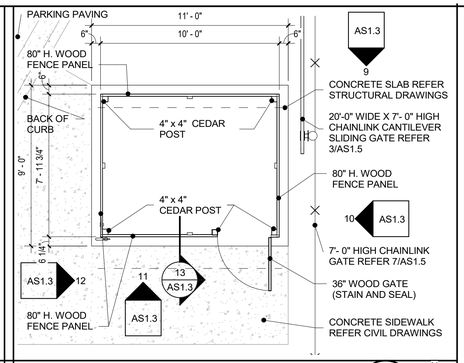
PARTIAL ARCHITECTURAL - SITE PLAN

AS1.2



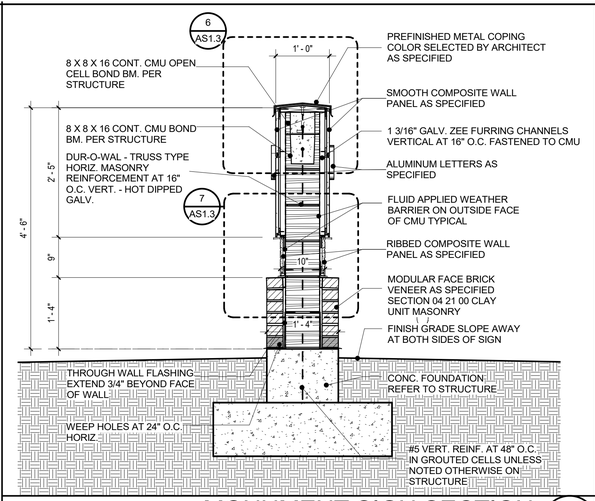
K-9 KENNEL - WEST ELEVATION

1/4" = 1'-0" — 12



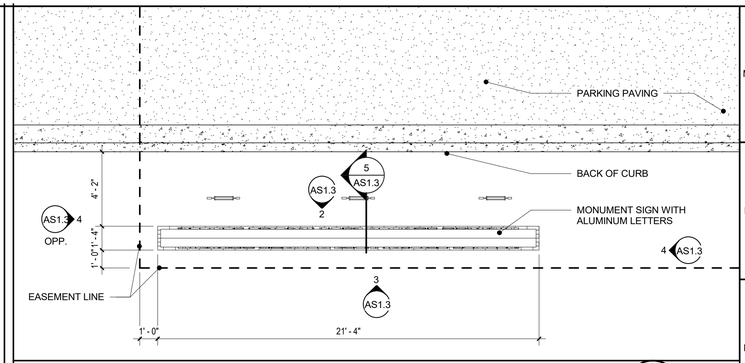
K-9 KENNEL PLAN

1/4" = 1'-0" — 8



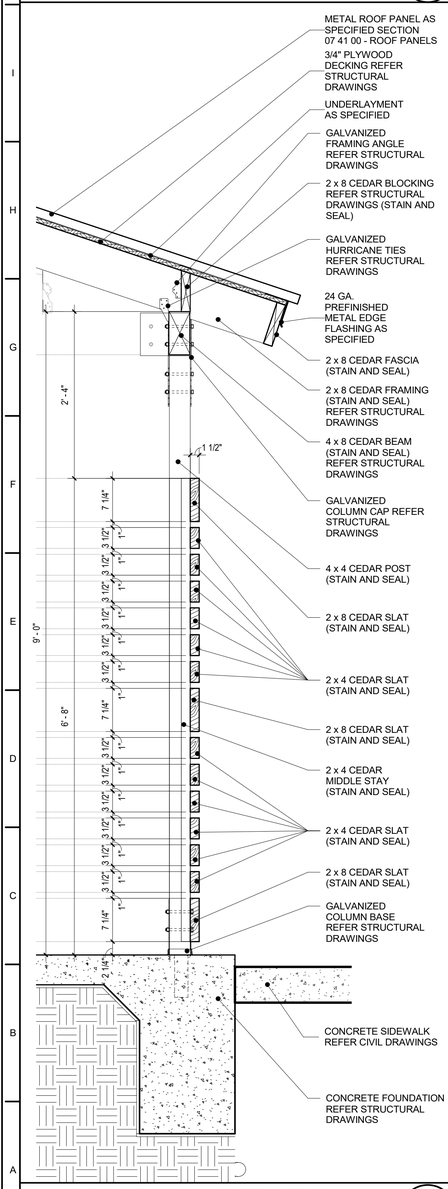
MONUMENT SIGN SECTION

3/4" = 1'-0" — 5



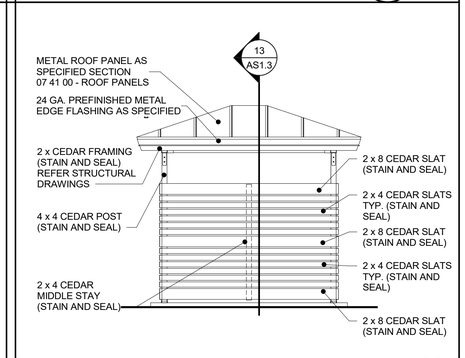
MONUMENT SIGN PLAN

1/4" = 1'-0" — 1



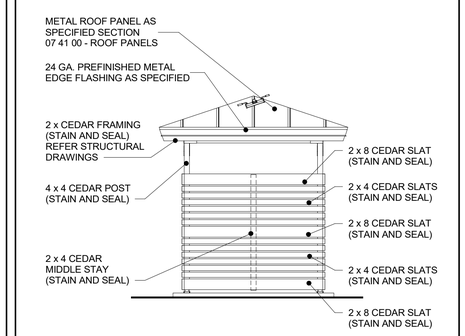
K-9 KENNEL SECTION

1" = 1'-0" — 13



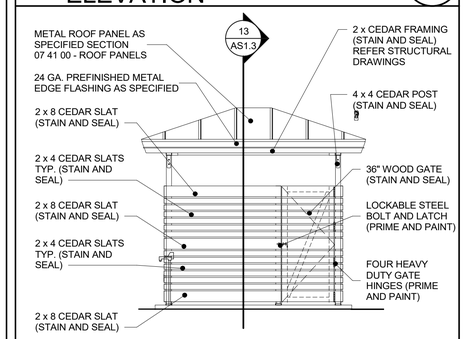
K-9 KENNEL - NORTH ELEVATION

1/4" = 1'-0" — 9



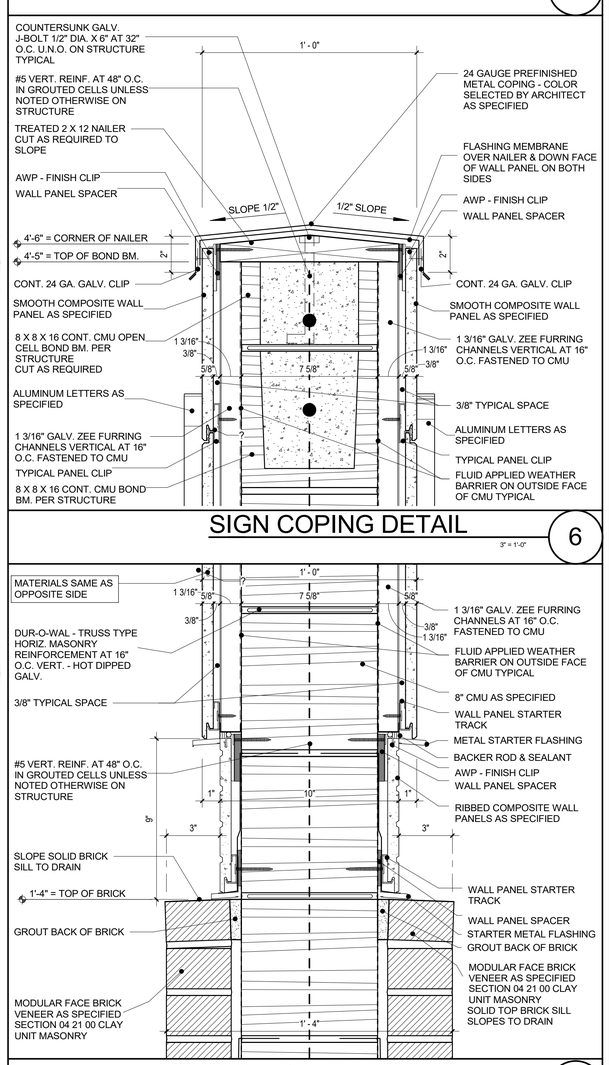
K-9 KENNEL - EAST ELEVATION

1/4" = 1'-0" — 10



K-9 KENNEL - SOUTH ELEVATION

1/4" = 1'-0" — 11

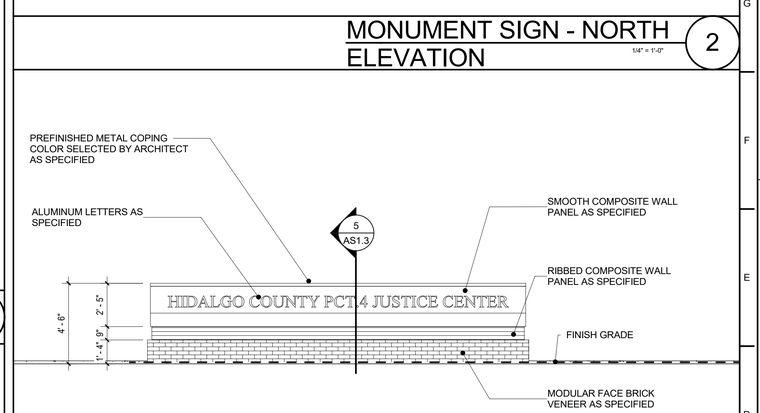


SIGN COPING DETAIL

3" = 1'-0" — 6

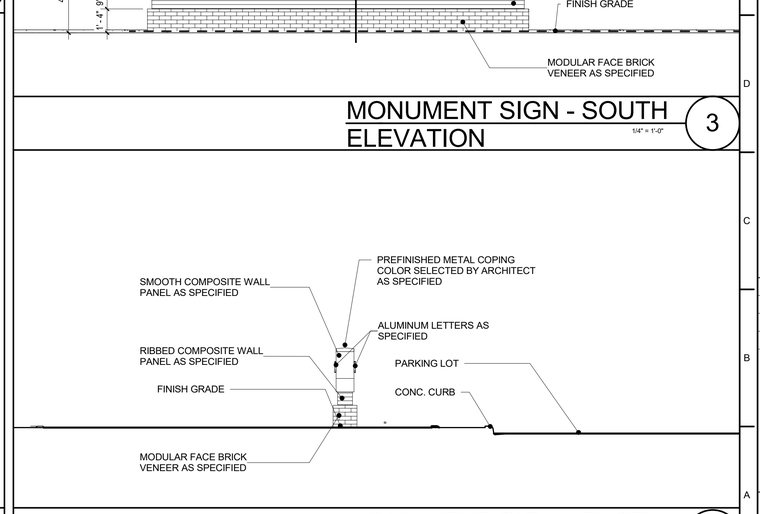
SIGN PANEL DETAIL

3" = 1'-0" — 7



MONUMENT SIGN - NORTH ELEVATION

1/4" = 1'-0" — 2



MONUMENT SIGN - SOUTH ELEVATION

1/4" = 1'-0" — 3

MONUMENT SIGN - EAST ELEVATION

1/4" = 1'-0" — 4

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HIDALGO COUNTY, TEXAS
EDINBURG, TEXAS 78542

1212 SOUTH 25TH AVENUE.

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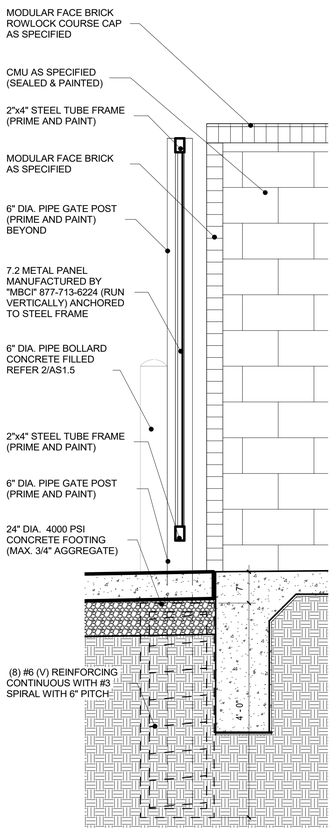
MONUMENT SIGN PLAN, ELEVATIONS & SECTION / K-9 KENNEL PLAN, ELEVATIONS & SECTION

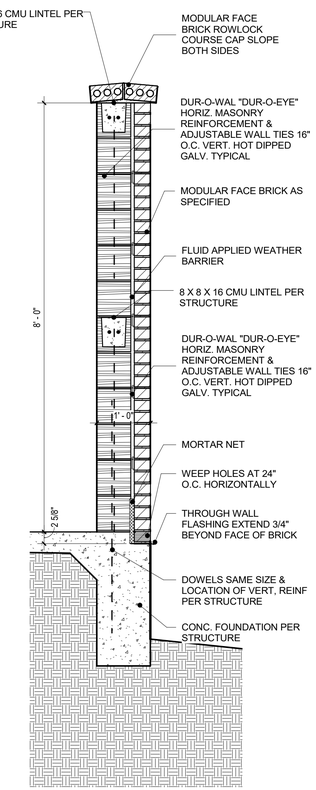
AS1.3



MECHANICAL YARD GATE SECTION

3/4" = 1'-0"

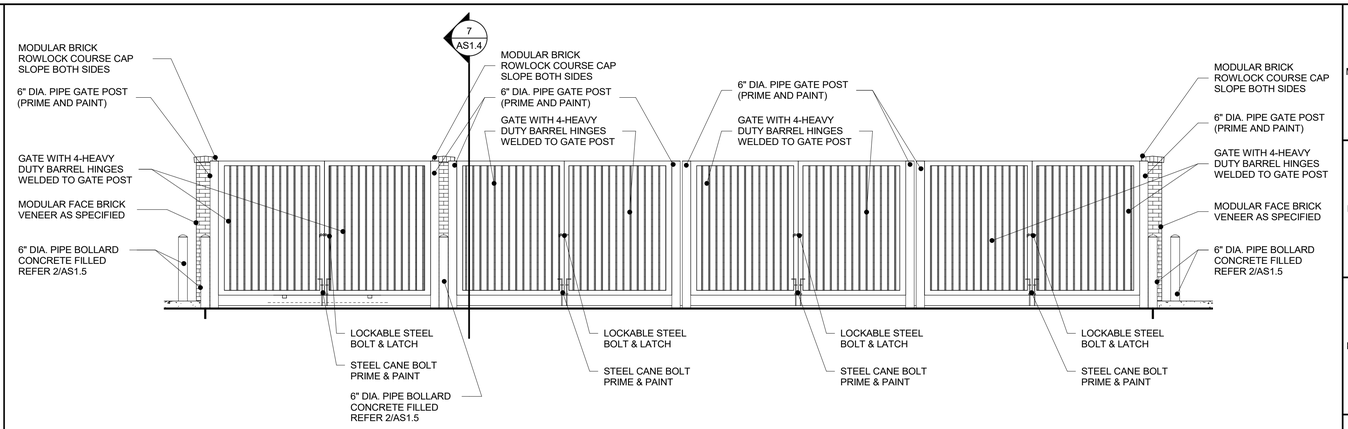
7



MECHANICAL YARD WALL SECTION

3/4" = 1'-0"

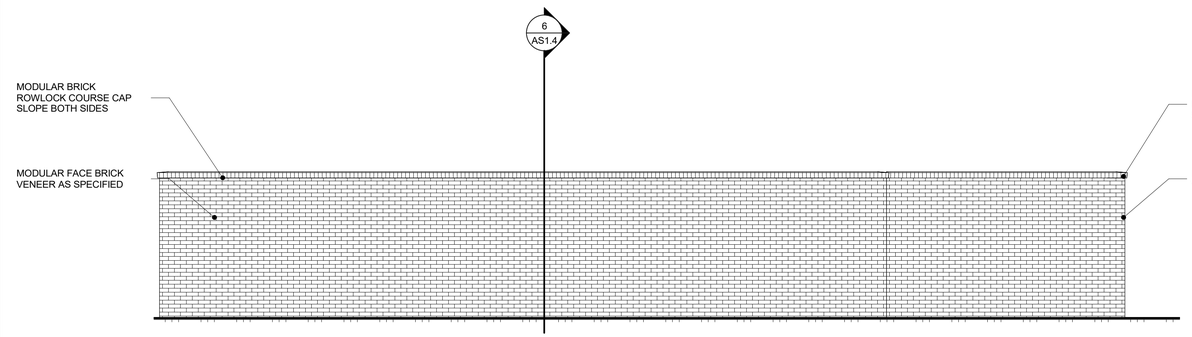
6



MECHANICAL YARD - SOUTH

1/4" = 1'-0"

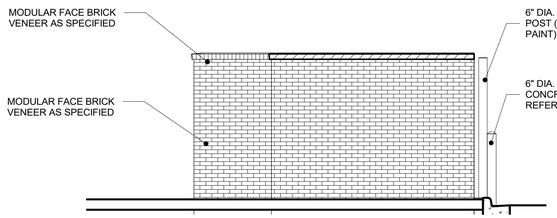
3



MECHANICAL YARD -NORTH

1/4" = 1'-0"

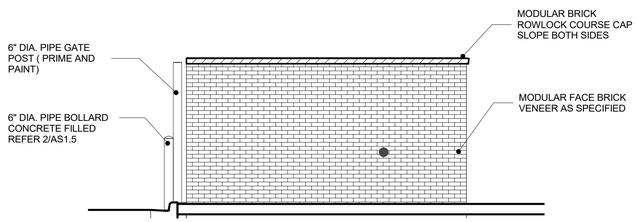
2



MECHANICAL YARD - WEST

1/4" = 1'-0"

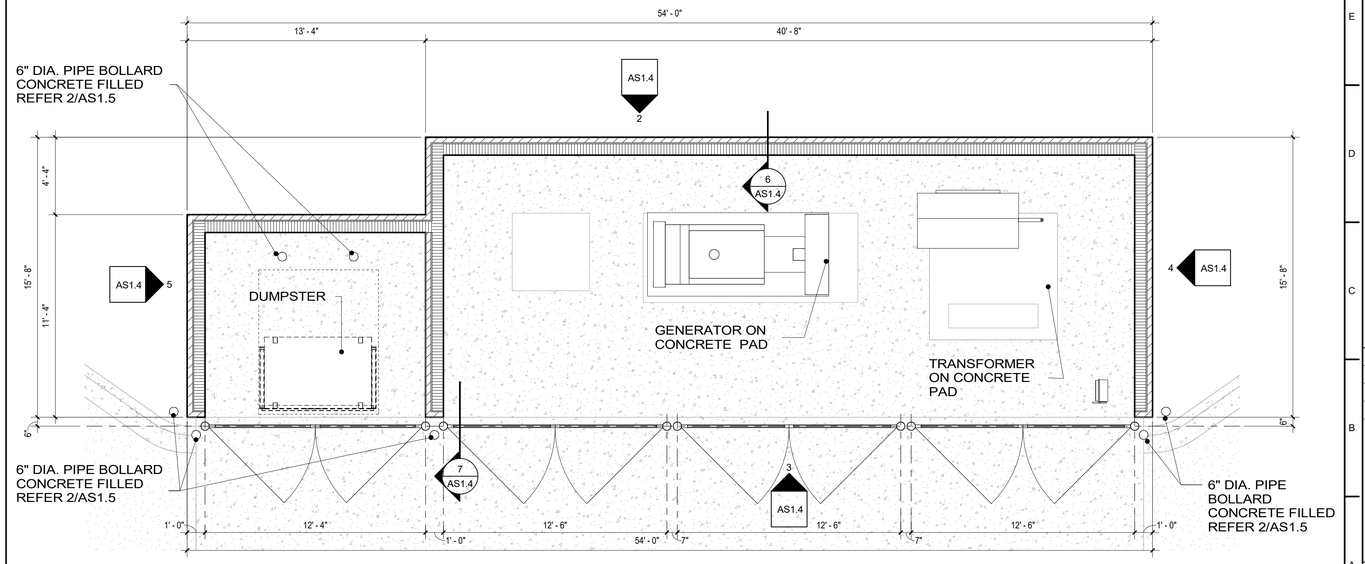
5



MECHANICAL YARD - EAST

1/4" = 1'-0"

4



ENLARGED MECHANICAL YARD

1/4" = 1'-0"

1

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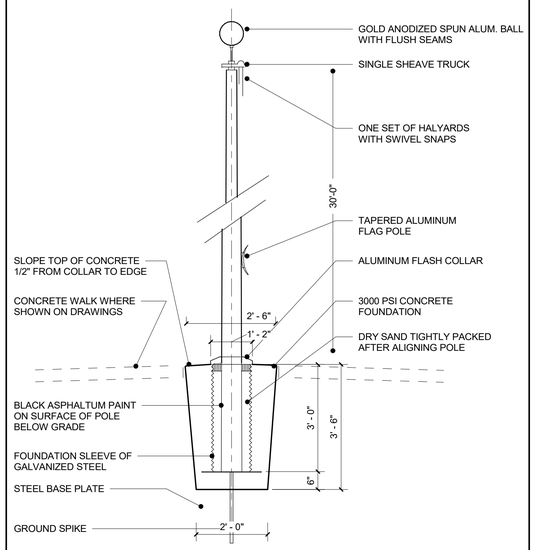
ENLARGED MECHANICAL YARD / ELEV. / DETAILS

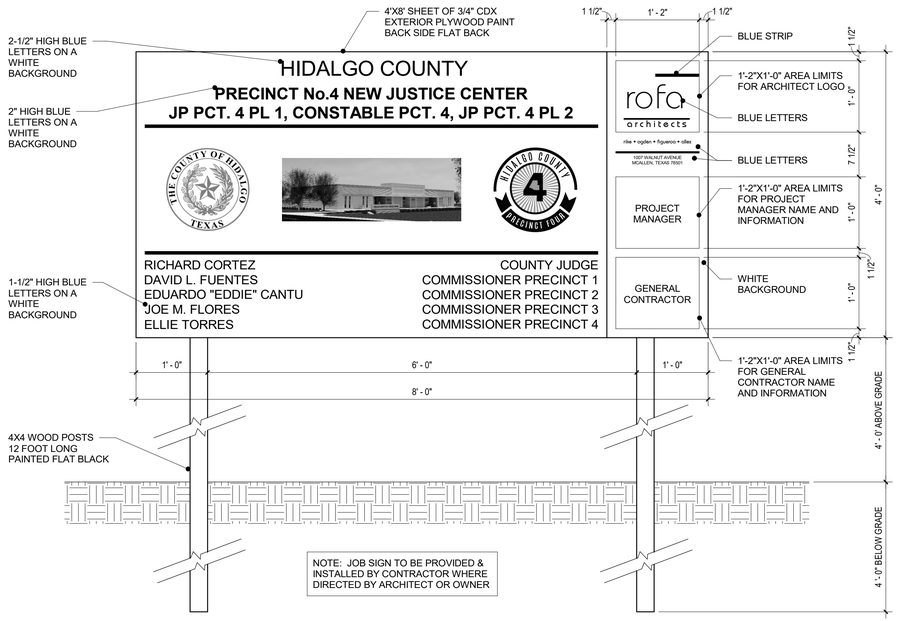
AS1.4



FLAG POLE DETAIL

1/2" = 1'-0"

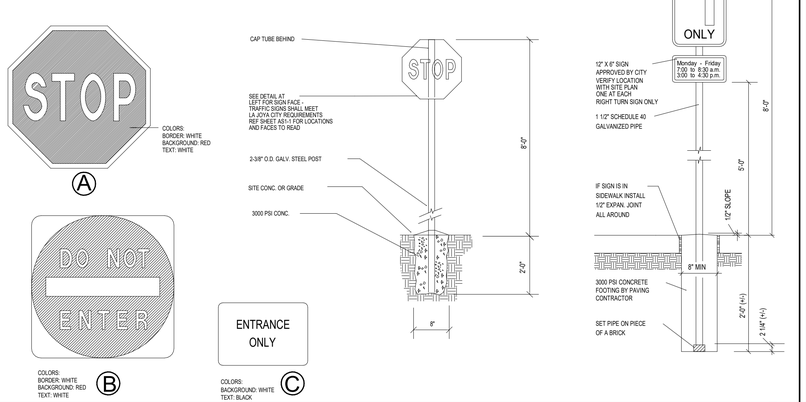
5



JOB SIGN DETAIL

1" = 1'-0"

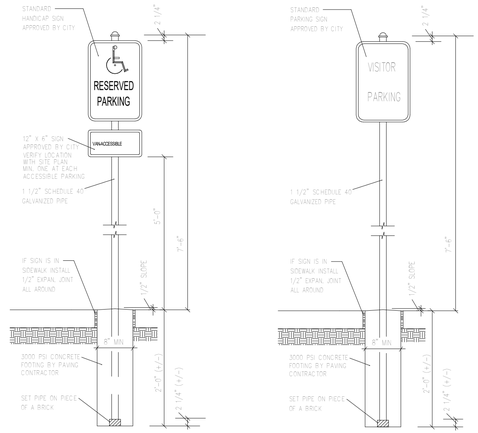
1



ROAD SIGNS - DETAIL

None

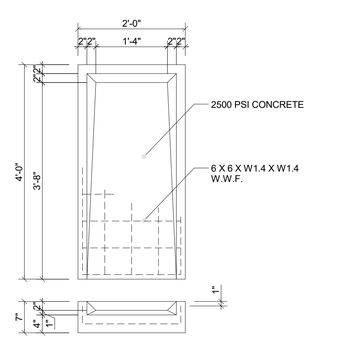
8



PARKING SIGNS - DETAIL

3/4" = 1'-0"

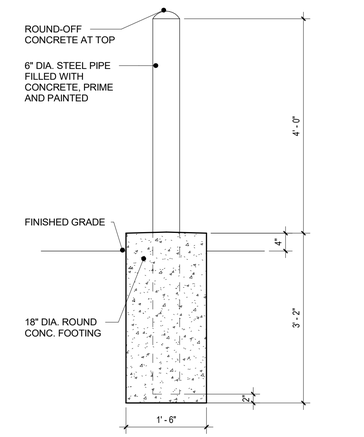
6



SPLASH BLOCK DETAIL

3/4" = 1'-0"

4



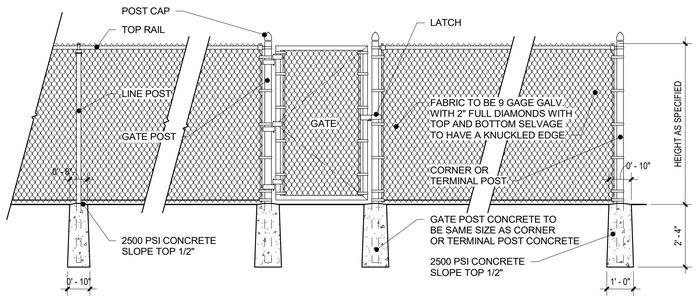
PIPE BOLLARD DETAIL

3/4" = 1'-0"

2

POST SCHEDULE IF THE SPECS DIFFER FROM THIS SCHEDULE, THE SPECS GOVERN.

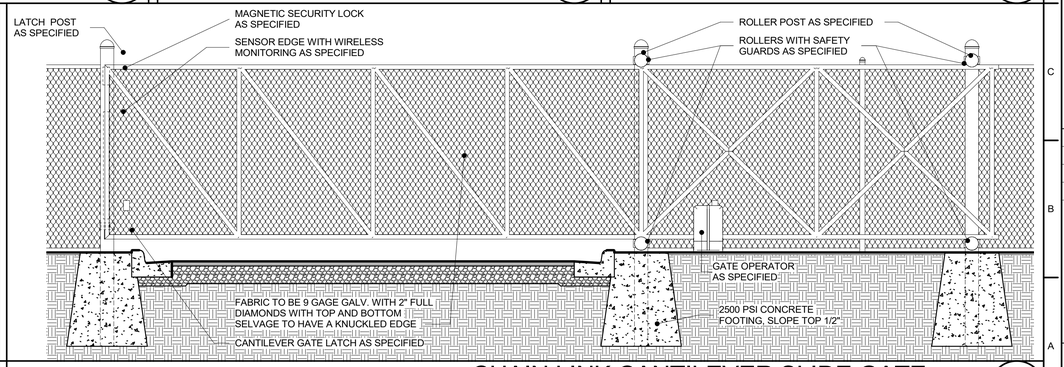
POST USE	FABRIC HT.	POST O.D.
TERMINAL OR CORNER	72" OR LESS	2.375"
TERMINAL OR CORNER	MORE THAN 72"	2.875"
GATE 72" OR LESS WIDE		2.875"
GATE 6 FT. TO 13 FT. WIDE		4.00"
GATE 13 FT. TO 18 FT. WIDE		6.625"
GATE OVER 18 FT. WIDE		8.625"
TOP RAIL		1.66"
LINE POST	72" OR LESS	1.90"
LINE POST	MORE THAN 72"	2.375"



TYPICAL CHAIN LINK FENCE DETAIL

3/8" = 1'-0"

7



CHAIN LINK CANTILEVER SLIDE GATE DETAIL

3/8" = 1'-0"

3

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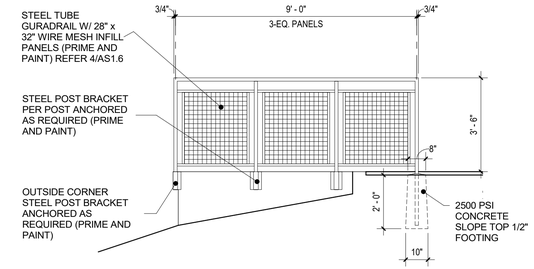
SITE DETAILS

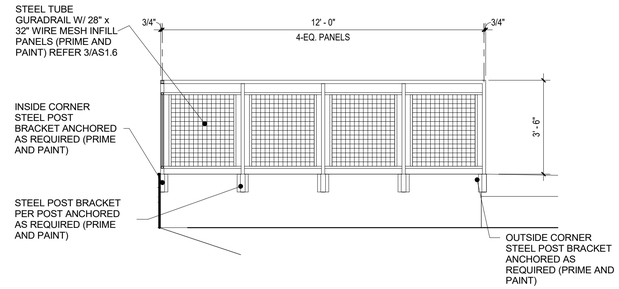
AS1.5



GUARDRAIL ELEVATION 4

3/8" = 1'-0"

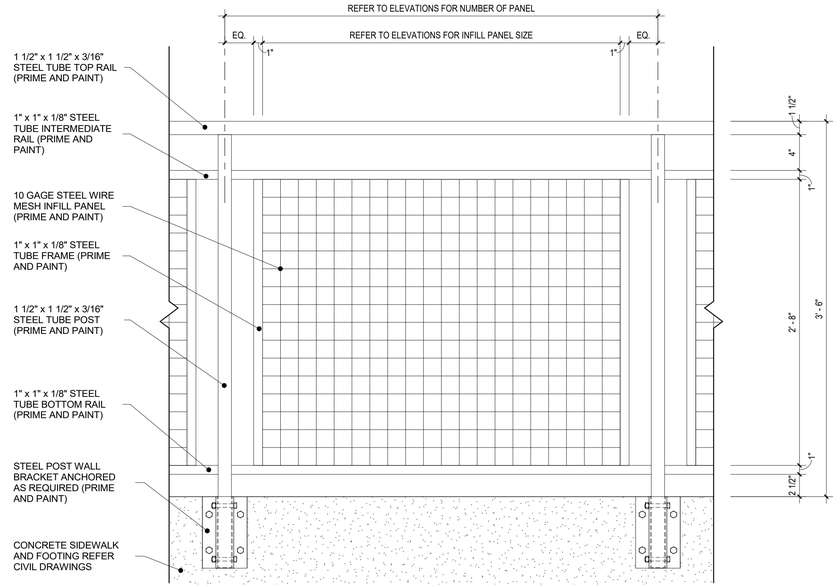
4



GUARDRAIL ELEVATION 3

3/8" = 1'-0"

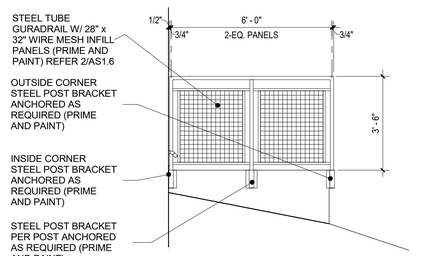
3



GUARDRAIL DETAIL

1 1/2" = 1'-0"

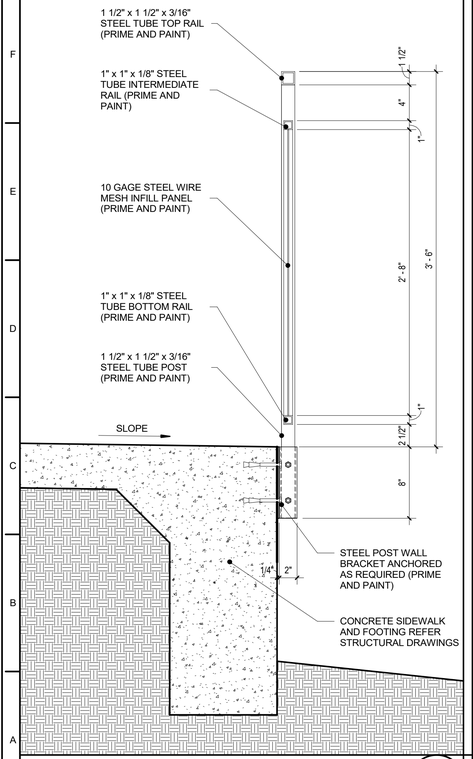
5



GUARDRAIL ELEVATION 2

3/8" = 1'-0"

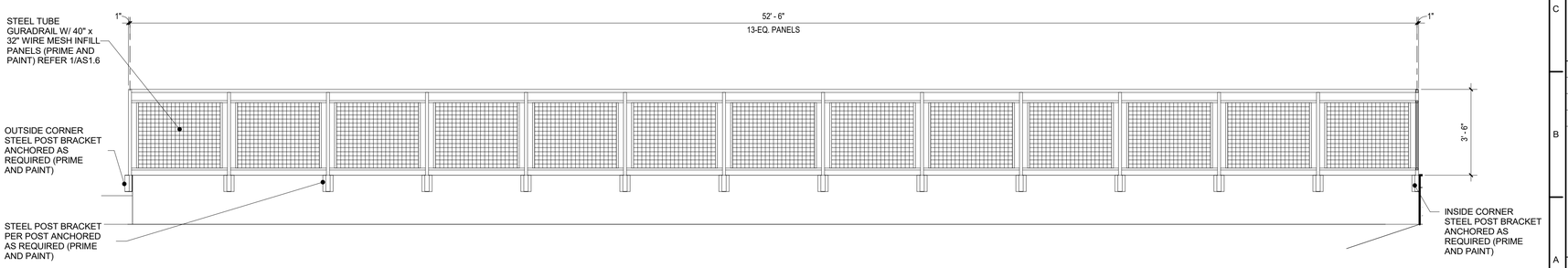
2



TYPICAL GUARDRAIL SECTION

1 1/2" = 1'-0"

6



GUARDRAIL ELEVATION 1

3/8" = 1'-0"

1

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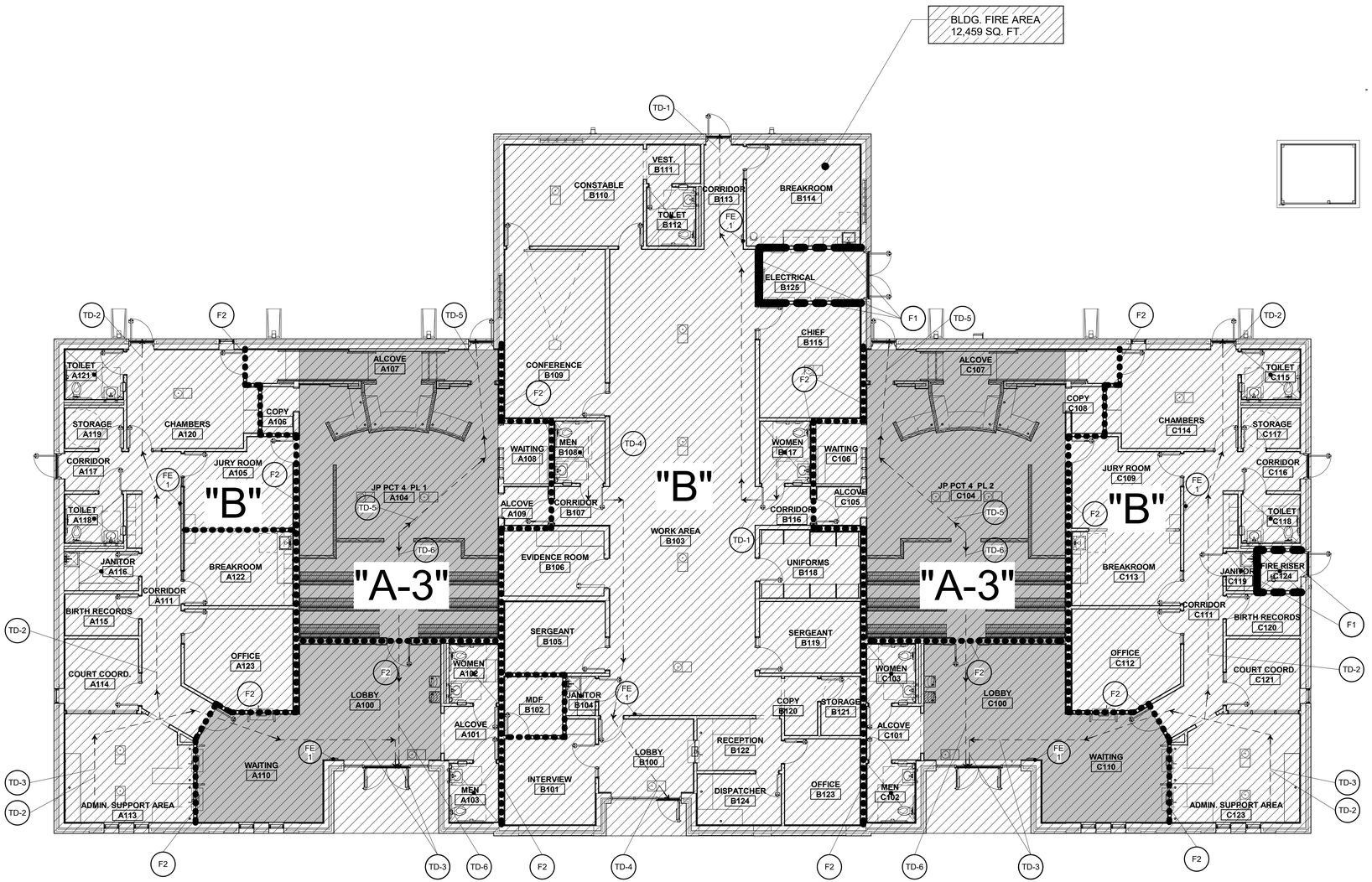
GUARDRAIL ELEVATIONS AND DETAILS

AS1.6



FIRE RATED WALL LEGEND

F1 — 1 HR. RATED FIRE BARRIER WALL TO BOTTOM OF METAL ROOF DECKS.
STUD WALL: UL DESIGN NO. U432
SEAL TOP OF WALLS WITH FIRE RESISTIVE SEALANT.
STUD WALL: UL SYSTEM NO. HW-D-0324

F2 — NON-RATED WALLS (UNLESS NOTED OTHERWISE) TO BOTTOM OF METAL DECK & SEAL TOP OF WALLS.
STUD WALL: UL SYSTEM NO. HW-D-0324
CMU WALL: UL SYSTEM NO. HW-D-0323

FIRE EXTINGUISHER TYPE

FE 1 — F.E. = SEMI-RECESSED FIRE EXTINGUISHER WITH CABINET INSTALLED AT 48" A.F.F. TO TOP OF CABINET.

NOTE: ALL WALL PENETRATIONS SHALL BE SEALED WITH SEALANT.
FIRE RATED SEALANT TO BE ACCORDING WITH RESPECTIVE WALL FIRE RATING.
SEAL TOP OF WALLS ACCORDINGLY.

JUSTICE CENTER BUILDING

TYPE IIB CONSTRUCTION: SPRINKLERED
NONSEPARATED MIXED OCCUPANCY:

GROUP A-3 (ASSEMBLY): COURT ROOM & LOBBY/WAITING AREA
GROUP B (BUSINESS) : OFFICE/STORAGE

EXIT ACCESS TRAVEL DISTANCE

TABLE 1017.2: GROUP "A" 250 FT. WITH SPRINKLER SYSTEM
"B" 300 FT. WITH SPRINKLER SYSTEM

TD-1 — EXIT ACCESS TRAVEL DISTANCE = 62'-10"
TD-2 — EXIT ACCESS TRAVEL DISTANCE = 70'-0"
TD-3 — EXIT ACCESS TRAVEL DISTANCE = 54'-10"
TD-4 — EXIT ACCESS TRAVEL DISTANCE = 55'-9"
TD-5 — EXIT ACCESS TRAVEL DISTANCE = 31'-2"
TD-6 — EXIT ACCESS TRAVEL DISTANCE = 31'-6"

FIRE PROTECTION PLAN - JUSTICE CENTER
1/8" = 1'-0"

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REGISTERED ARCHITECT MICHAEL E. ALLEN 75101 STATE OF TEXAS
02.05.2021

NO.	DATE	DESCRIPTION
		REVISIONS

HIDALGO COUNTY PRECINCT No.4
NEW JUSTICE CENTER
HIDALGO COUNTY, TEXAS
1212 SOUTH 25TH AVENUE, EDINBURG, TEXAS 78542

PROJECT NO: 2018.19
DATE: 2/5/2021 11:31:03 AM
STARTING DATE:
CK BY: Checker DWN BY: Author

FIRE PROTECTION PLAN

A1.1

TYPE II (B) CONSTRUCTION (UNPROTECTED - SPRINKLERED - NONSEPARATED MIXED OCCUPANCY)

INTERNATIONAL BUILDING CODE 2012

(NOTE: ENTIRE BUILDINGS SHALL BE SPRINKLERED WITH A SUPERVISED SYSTEM)

MIXED OCCUPANCY : SINGLE FLOOR ——— 303.4 ASSEMBLY GROUP A-3: COURT ROOM & LOBBY/WAITING AREA
304.1 BUSINESS GROUP "B": CIVIC ADMINISTRATION BUILDING

SINGLE STORY FIRE AREA — 12,459 SQ. FT.

BUILDING OCCUPANTS ——— 349 TOTAL OCCUPANTS

FIRE AREA: THE AGGREGATE FLOOR AREA ENCLOSED AND BOUNDED BY FIRE WALLS, FIRE BARRIERS, EXTERIOR WALLS OR HORIZONTAL ASSEMBLIES OF A BUILDING. AREAS OF THE BUILDING NOT PROVIDED WITH SURROUNDING WALLS SHALL BE INCLUDED IN THE FIRE AREA IF SUCH AREAS ARE INCLUDED WITHIN THE HORIZONTAL PROJECTION OF THE ROOF OR FLOOR NEXT ABOVE.

GROUP "A-3" BUILDING OCCUPANT AREA 3,117 SQ. FT. (ALLOWABLE AREA 45,125 SQ. FT.) 1,084/7 = (154.8) + 112 (COURTS) = 267 OCCUPANTS

GROUT "B" BUILDING OCCUPANT AREA 8,483 SQ. FT. (USE "A-3" ALLOWABLE AREA) 7,946/100 = (79.46) = 80 OCCUPANTS + 537/300 = 1.79(2)
= 82 OCCUPANTS

303.1.2 SMALL ASSEMBLY SPACES:
THE FOLLOWING ROOMS AND SPACES SHALL NOT BE CLASSIFIED AS ASSEMBLY OCCUPANCY:
1. A ROOM OR SPACE USED FOR ASSEMBLY PURPOSES WITH AN OCCUPANT LOAD OF LESS THAN 50 PERSONS AND ACCESSORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS A GROUP "B" OCCUPANCY OR AS PART OF THAT OCCUPANCY.
2. A ROOM OR SPACE USED FOR ASSEMBLY PURPOSES THAT IS LESS THAN 750 SQUARE FEET IN AREA AND ACCESSORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS A GROUP "B" OCCUPANCY OR AS PART OF THAT OCCUPANCY.

303.4 ASSEMBLY GROUP A-3
ASSEMBLY USES INTENDED FOR WORSHIP, RECREATION OR AMUSEMENT AND OTHER ASSEMBLY USES NOT CLASSIFIED ELSEWHERE IN GROUP "A" INCLUDING, BUT NOT LIMITED TO: COURTROOMS & LOBBY/WAITING AREAS.

304.1 BUSINESS GROUP B
BUSINESS GROUP "B" OCCUPANCY INCLUDES, AMONG OTHERS, THE USE OF A BUILDING OR STRUCTURE, OR A PORTION THEREOF, FOR OFFICE, PROFESSIONAL OR SERVICE-TYPE TRANSACTIONS, INCLUDING STORAGE OF RECORDS AND ACCOUNTS. BUSINESS OCCUPANCIES SHALL INCLUDE, BUT NOT LIMITED TO THE FOLLOWING: CIVIC ADMINISTRATION.

TABLE 503

ALLOWABLE AREA FOR GROUP "A-3" ---------- 9,500 SQ. FT.

ALLOWABLE AREA FOR GROUP "B" ---------- 23,000 SQ. FT.

ALLOWABLE STORIES: GROUP "A-3" ---------- 2 STORIES (INCREASE TO 3 STORIES PER SECTION 504.2)

ALLOWABLE STORIES: GROUP "B ---------- 3 STORIES (INCREASE TO 4 STORIES PER SECTION 504.2)

MAXIMUM BUILDING HEIGHT ---------- 55 FT. + 20 (INCREASE) = 75 FT. (STORIES INCREASED BY ONE) FOR GROUP "B & A-3"

AREA INCREASE PER SECTION
506.3 AUTOMATIC SPRINKLER ---------- 69,000 SQ. FT. = (23,000 X 3) GROUP "B"
SYSTEM INCREASE FOR 1 STORY 28,500 SQ. FT. = (9,500 X 3) GROUP "A"

TOTAL MODIFIED ALLOWABLE AREA PER STORY ---------- 109,250 SQ. FT. = (23,000 + 17,250 + 69,000) GROUP "B"
45,125 SQ. FT. = (9,500 + 7,125 + 28,500) GROUP "A-3"
("A-3" MOST RESTRICTIVE FOR NONSEPARATED MIXED OCCUPANCIES)

504.2 AUTOMATIC SPRINKLER SYSTEM INCREASE
WHERE A BUILDING IS EQUIPPED THROUGHOUT WITH AN APPROVED AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1, THE VALUE SPECIFIED IN TABLE 503 FOR MAXIMUM BUILDING HEIGHT IS INCREASED BY 20 FEET AND THE MAXIMUM NUMBER OF STORIES IS INCREASED BY ONE. THESE INCREASES ARE PERMITTED IN ADDITION TO THE BUILDING AREA INCREASE IN ACCORDANCE WITH SECTION 506.2 AND 506.3.

506.1 GENERAL: THE BUILDING AREAS LIMITED BY TABLE 503 (*At*) SHALL BE PERMITTED TO BE INCREASED DUE TO FRONTAGE (*If*) AND AUTOMATIC SPRINKLER SYSTEM PROTECTION (*Is*) IN ACCORDANCE WITH EQUATION 5-1: $Aa = \{At + [At \times If] + [At \times Is]\}$

Aa = ALLOWABLE BUILDING AREA PER STORY
At = TABULAR BUILDING AREA PER STORY IN ACCORDANCE WITH TABLE 503
If = AREA INCREASE FACTOR DUE TO FRONTAGE AS CALCULATED IN ACCORDANCE WITH SECTION 506.2
Is = AREA INCREASE FACTOR DUE TO SPRINKLER SYSTEM PROTECTION AS CALCULATED IN ACCORDANCE WITH SECTION 506.3

GROUP "B"
Aa = {23,000 + [23,000 X .75] + [23,000 x 3]}
Aa = 23,000 + 17,250 + 69,000
Aa = 109,250 SQ. FT. (TOTAL ALLOWABLE AREA)

GROUP "A-3" (MOST RESTRICTIVE FOR NONSEPARATED MIXED OCCUPANCIES)
Aa = {9,500 + [9,500 x .75] + [9,500 x 3]}
Table 503 + Frontage Inc. + Sprinkler Inc.
Aa = {9,500 + 7,125 + 28,500}
Aa = 45,125 SQ. FT. (TOTAL ALLOWABLE AREA)

506.2 FRONTAGE INCREASE: *If* = [F/P - .25] *W*/30 GROUP "B" INCREASE = 23,000 X .75 = 17,250 SQ. FT.
If = [522' - 8"/522' - 8" - .25] 30/30 GROUP "A-3" INCREASE = 9,500 X .75 = 7,125 SQ. FT.
If = [1- .25]
If = .75

506.3 AUTOMATIC SPRINKLER SYSTEM INCREASE:
(1 STORY) MULTIPLY ALLOWABLE AREA X 300 % (*Is = 3)*
(2 STORIES) MULTIPLY ALLOWABLE AREA X 200 % (*Is = 2)*

508.2 ACCESSORY OCCUPANCIES:
ACCESSORY OCCUPANCIES ARE THOSE OCCUPANCIES THAT ARE ANCILLARY TO THE MAIN OCCUPANCY OF THE BUILDING OR PORTION THEREOF.

508.2.1 AREA LIMITATION:
AGGREGATE ACCESSORY OCCUPANCIES SHALL *NOT OCCUPY MORE THAN 10 PERCENT OF THE BUILDING AREA* OF THE STORY IN WHICH THEY ARE LOCATED AND SHALL NOT EXCEED THE TABULAR VALUES IN TABLE 503, WITHOUT BUILDING AREA INCREASES IN ACCORDANCE WITH SECTION 506 FOR SUCH ACCESSORY OCCUPANCIES.

"A-3" = 3117/12,459 BLDG. AREA = .25 (25%) > 10% = OCCUPANCY "A-3" IS NOT AN ACCESSORY OCCUPANCY.

508.2.2 OCCUPANCY CLASSIFICATION:
ACCESSORY OCCUPANCIES SHALL BE INDIVIDUALLY CLASSIFIED IN ACCORDANCE WITH SECTION 302.1 THE REQUIREMENTS OF THIS CODE SHALL APPLY TO EACH PORTION OF THE BUILDING BASED ON THE OCCUPANCY CLASSIFICATION OF THAT SPACE.

508.2.4 SEPARATION OF OCCUPANCIES:
NO SEPARATION IS REQUIRED BETWEEN ACCESSORY OCCUPANCIES AND THE MAIN OCCUPANCY.

508.3 NONSEPARATED OCCUPANCIES:
STEP 1: DETERMINE WHICH OCCUPANCY GROUP CLASSIFICATIONS ARE PRESENT IN THE BUILDING.
STEP 2: DETERMINE THE MINIMUM TYPE OF CONSTRUCTION BASED ON THE HEIGHT AND AREA OF THE BUILDING FOR EACH OCCUPANCY IN ACCORDANCE WITH THIS CHAPTER AND TABLE 503 AS IF EACH OCCUPANCY OCCURRED THROUGHOUT THE BUILDING. COMPARE THE REQUIREMENTS FOR EACH OCCUPANCY AND THEN APPLY THE REQUIREMENT FOR THE HIGHEST TYPE OF CONSTRUCTION TO THE ENTIRE BUILDING.
STEP 3: APPLY THE MOST RESTRICTIVE PROVISIONS FOUND IN CHAPTER 9 THROUGHOUT THE BUILDING CONTAINING NONSEPARATED OCCUPANCIES.
STEP 4: APPLY ALL OTHER REQUIREMENTS OF THE CODE EXCEPT FOR SECTION 403(HIGH RISE BLDG.) AND CHAPTER 9(FIRE PROTECTION, SPRINKLER SYSTEM TO EACH OCCUPANCY INDIVIDUALLY BASED ON THE SPECIFIC OCCUPANCY OF EACH SPACE.

508.3.1 OCCUPANCY CLASSIFICATION:
NONSEPARATED OCCUPANCIES SHALL BE INDIVIDUALLY CLASSIFIED IN ACCORDANCE WITH SECTION 302.1. THE REQUIREMENTS OF THIS CODE SHALL APPLY TO EACH PORTION OF THE BUILDING BASED ON THE OCCUPANCY CLASSIFICATION OF THAT SPACE. IN ADDITION, THE MOST RESTRICTIVE PROVISIONS OF CHAPTER 9 WHICH APPLY TO THE NONSEPARATED OCCUPANCIES SHALL APPLY TO THE TOTAL NONSEPARATED OCCUPANCY AREA.

508.3.2 ALLOWABLE BUILDING AREA AND HEIGHT:
THE ALLOWABLE BUILDING AREA AND HEIGHT OF THE BUILDING OR PORTION THEREOF SHALL BE BASED ON THE MOST RESTRICTIVE ALLOWANCES FOR THE OCCUPANCY GROUPS UNDER CONSIDERATION FOR THE TYPE OF CONSTRUCTION OF THE BUILDING IN ACCORDANCE WITH SECTION 503.1.

508.3.3 SEPARATION: NO SEPARATION IS REQUIRED BETWEEN NONSEPARATED OCCUPANCIES.

508.4.4 SEPARATION: INDIVIDUAL OCCUPANCIES SHALL BE SEPARATED FROM ADJACENT OCCUPANCIES IN ACCORDANCE WITH TABLE 508.4.

TABLE 508.4: REQUIRED SEPARATION OF OCCUPANCIES

	SPRINKLERED	NONSPRINKLERED
OCCUPANCY: A & B	1 HR.	2 HR.

TABLE 509 INCIDENTAL USES:
REFRIGERANT MACHINERY ROOM SYSTEM (MECHANICAL ROOMS) — 1 HOUR OR PROVIDE AUTOMATIC SPRINKLER

509.4.2 PROTECTION:
WHERE TABLE 509 PERMITS AN AUTOMATIC SPRINKLER SYSTEM WITHOUT A FIRE BARRIER, THE INCIDENTAL USES SHALL BE SEPARATED FROM THE REMAINDER OF THE BUILDING BY CONSTRUCTION CAPABLE OF RESISTING THE PASSAGE OF SMOKE. THE WALLS SHALL EXTEND FROM THE TOP OF THE FOUNDATION OR FLOOR ASSEMBLY BELOW TO THE UNDERSIDE OF THE CEILING THAT IS A COMPONENT OF A FIRE-RESISTANCE-RATED FLOOR ASSEMBLY OR ROOF ASSEMBLY ABOVE OR TO THE UNDERSIDE OF THE FLOOR OR ROOF SHEATHING, DECK OR SLAB ABOVE.

TABLE 601
FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS)
TYPE IIB CONSTRUCTION

STRUCTURAL FRAME ——— 0 HR

BEARING WALLS

EXTERIOR ——— 0 HR

INTERIOR ——— 0 HR

NONBEARING WALLS AND PARTITIONS

INTERIOR ——— 0 HR

FLOOR CONSTRUCTION AND ASSOCIATED MEMBERS ——— 0 HR

ROOF CONSTRUCTION AND ASSOCIATED MEMBERS ——— 0 HR

TABLE 602
FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE
TYPE II B CONSTRUCTION

EXTERIOR NONBEARING WALLS AND PARTITIONS

X ≥ 30 GROUP A,B,E,F-2,I,R,S-2,U ——— 0 HR

606.2.2 TYPES I AND II: TYPES I AND II CONSTRUCTION ARE THOSE TYPES OF CONSTRUCTION IN WHICH THE BUILDING ELEMENTS LISTED IN TABLE 601 ARE OF NONCOMBUSTIBLE MATERIALS, EXCEPT AS PERMITTED IN SECTION 603 AND ELSEWHERE IN THIS CODE.

705.11 PARAPETS:
PARAPETS SHALL BE PROVIDED ON EXTERIOR WALLS OF BUILDINGS.

EXCEPTION: A PARAPET NEED NOT BE PROVIDED ON AN EXTERIOR WALL WHERE ANY OF THE FOLLOWING CONDITIONS EXIST.
1. THE WALL IS NOT REQUIRED TO BE FIRE-RESISTANCE RATED IN ACCORDANCE WITH TABLE 602 BECAUSE OF FIRE SEPARATION DISTANCE.

903.2.1.3 AN AUTOMATIC SPRINKLER SYSTEM SHALL BE PROVIDED FOR GROUP A-3 OCCUPANCIES WHERE ONE OF THE FOLLOWING CONDITIONS EXISTS:
1. THE FIRE AREA EXCEEDS 12,000 SQUARE FEET.
2. THE FIRE AREA HAS AN OCCUPANT LOAD OF 300 OR MORE.
3. THE FIRE AREA IS LOCATED ON A FLOOR OTHER THAN A LEVEL OF EXIT DISCHARGE SERVING SUCH OCCUPANCIES.

906.1 PORTABLE FIRE EXTINGUISHERS: WHERE REQUIRED:
PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS
IN GROUP A,B,E,F,H,I,M,R-1,R-2,R-4 AND S OCCUPANCIES

TABLE 906.3(1)
MAXIMUM TRAVEL DISTANCE TO EXTINGUISHER: 75 FT. (ACTUAL WALKING DISTANCE ALONG A NORMAL PATH OF TRAVEL TO THE EXTINGUISHER)

907.2.1 GROUP A:
A MANUAL FIRE ALARM SYSTEM THAT ACTIVATES THE OCCUPANT NOTIFICATION SYSTEM IN ACCORDANCE WITH SECTION 907.5 SHALL BE INSTALLED IN GROUP A OCCUPANCIES WHERE THE OCCUPANT LOAD DUE TO THE ASSEMBLY OCCUPANCY IS 300 OR MORE.

EXCEPTION: MANUAL FIRE ALARM BOXES ARE NOT REQUIRED WHERE THE BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3.1.1 AND THE OCCUPANT NOTIFICATION APPLIANCES WILL ACTIVATE THROUGHOUT THE NOTIFICATION ZONES UPON SPRINKLER WATERFLOW.

907.2.2 GROUP B:
A MANUAL FIRE ALARM SYSTEM SHALL BE INSTALLED IN GROUP "B" OCCUPANCIES WHERE ONE OF THE FOLLOWING CONDITIONS EXITS.
1. THE COMBINED GROUP "B" OCCUPANT LOAD OF ALL FLOORS IS 500 OR MORE
2. THE GROUP "B" OCCUPANT LOAD IS MORE THAN 100 PERSONS ABOVE OR BELOW THE LOWEST LEVEL OF EXIT DISCHARGE.
3. THE FIRE AREA CONTAINS AN AMBULATORY CARE FACILITY.

EXCEPTION: MANUAL FIRE ALARM BOXES ARE NOT REQUIRED WHERE THE BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3.1.1 AND THE OCCUPANT NOTIFICATION APPLIANCES WILL ACTIVATE THROUGHOUT THE NOTIFICATION ZONES UPON SPRINKLER WATERFLOW.

TABLE 1004.1.2: MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT (SQ. FT):

ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300 GROSS
ASSEMBLY WITHOUT FIX SEATS - CONCENTRATED - CHAIRS ONLY NOT FIXED	7 NET
BUSINESS AREAS	100 GROSS
COURTROOMS OTHER THAN FIXED SEATING AREAS	40 NET

1005.3.2 OTHER EGRESS COMPONENTS:
THE CAPACITY, IN INCHES OF MEANS OF EGRESS COMPONENTS OTHER THAN STAIRWAYS SHALL BE CALCULATED BY MULTIPLYING THE OCCUPANT LOAD SERVED BY SUCH COMPONENTS BY A MEANS OF EGRESS CAPACITY FACTOR OF 0.2 INCH PER OCCUPANT.

EXCEPTION: FOR OTHER THAN GROUP H AND I-2 OCCUPANCIES THE CAPACITY, IN INCHES, OF MEANS OF EGRESS COMPONENTS OTHER THAN STAIRWAYS SHALL BE CALCULATED BY MULTIPLYING THE OCCUPANT LOAD SERVED BY SUCH COMPONENT BY A MEANS OF EGRESS CAPACITY FACTOR OF 0.15 INCH PER OCCUPANT IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.3.1.2 AND AN EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM IN ACCORDANCE WITH SECTION 907.5.2.2.

1014.3 COMMON PATH OF EGRESS TRAVEL:
THE COMMON PATH OF EGRESS TRAVEL IS THE DISTANCE MEASURED FROM THE MOST REMOTE POINT IN A SPACE TO THE POINT IN THE EXIT PATH WHERE THE OCCUPANT HAS ACCESS TO TWO REQUIRED EXITS IN SEPARATE DIRECTIONS.

TABLE 1014.3: COMMON PATH OF EGRESS TRAVEL:
BUSINESS OCCUPANCY - OCCUPANTS >30 (100 FT. WITH SPRINKLER SYSTEM)
ASSEMBLY OCCUPANCY- OCCUPANTS >30 75 FT. (75 FT. WITH SPRINKLER SYSTEM)

1015.1 EXITS OR EXIT ACCESS DOORWAYS FROM SPACE:
TWO EXITS OR EXIT ACCESS DOORWAYS FROM ANY SPACE SHALL BE PROVIDED
WHERE ONE OF THE FOLLOWING CONDITIONS EXISTS:
1. THE OCCUPANT LOAD OF THE SPACE EXCEEDS ONE OF THE VALUES IN TABLE 1015.1 OCCUPANCY "A,B,E,F,M,U" OCCUPANCY >49
2. THE COMMON PATH OF EGRESS TRAVEL EXCEEDS ONE OF THE LIMITATIONS OF SECTION 1014.3: OCCUPANCY "B,S" OCCUPANCY LOAD >30 75 FT. (100 FT. SPRINKLERED) ASSEMBLY OCCUPANCY, OCCUPANT LOAD >30 75 FT

1015.2.1 TWO EXITS OR EXIT ACCESS DOORWAYS:
WHERE TWO EXITS OR EXIT ACCESS DOORWAYS ARE REQUIRED FROM ANY PORTION OF THE EXIT ACCESS. THE EXIT DOORS OR EXIT ACCESS DOORWAYS SHALL BE PLACED A DISTANCE APART EQUAL TO NOT LESS THAN ONE HALF OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING OR AREA TO BE SERVED MEASURED IN A STRAIGHT LINE BETWEEN EXIT DOORS OR EXIT ACCESS DOORWAYS.

EXCEPTION: (2) WHERE A BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.3.1.2, THE SEPARATION DISTANCE OF THE EXIT DOORS OR EXIT ACCESS DOORWAYS SHALL NOT BE LESS THAN ONE-THIRD OF THE LENGTH.

1016 EXIT ACCESS TRAVEL DISTANCE:
"EXIT ACCESS" IS DEFINED AS THAT PORTION OF A MEANS OF EGRESS SYSTEM THAT LEADS FROM ANY OCCUPIED PORTION OF A BUILDING OR STRUCTURE TO AN EXIT.

1016.2 EXIT ACCESS TRAVEL DISTANCE: LIMITATIONS:
EXIT ACCESS TRAVEL DISTANCE SHALL NOT EXCEED THE VALUES GIVEN IN TABLE 1016.2

TABLE 1016.2 EXIT ACCESS TRAVEL DISTANCE
OCCUPANCY GROUP "A-3" = 200 FT. WITHOUT SPRINKLER SYSTEM ---------- 250 FT. WITH SPRINKLER SYSTEM

OCCUPANCY GROUP "B" = 200 FT. WITHOUT SPRINKLER SYSTEM ---------- 300 FT. WITH SPRINKLER SYSTEM

TABLE 1018.1 CORRIDOR FIRE-RESISTANCE RATING:
BUSINESS OCCUPANCY: OCCUPANTS >30: (1 HR) WITHOUT SPRINKLER SYSTEM: (0 HR) WITH SPRINKLER SYSTEM
ASSEMBLY OCCUPANCY: OCCUPANTS>30: (1 HR) WITHOUT SPRINKLER SYSTEM: (0 HR) WITH SPRINKLER SYSTEM

1018.4 DEAD ENDS:
WHERE MORE THAN ONE EXIT OR EXIT ACCESS DOORWAY IS REQUIRED, THE EXIT ACCESS SHALL BE ARRANGED SUCH THAT THERE ARE NO DEAD ENDS IN CORRIDORS MORE THAN 20 FT. IN LENGTH.

EXCEPTION (2) GROUP B, E, F, I-1, M, R-1, R-2, R-4, S AND U 50 FT. MAX. WITH SPRINKLER SYSTEM

1021.2 EXITS FROM STORIES:
TWO EXITS, OR EXIT ACCESS STAIRWAYS OR RAMPS PROVIDING ACCESS TO EXITS, FROM ANY STORY OR OCCUPIED ROOF SHALL BE PROVIDED WHERE ONE OF THE FOLLOWING CONDITIONS EXISTS.
1. THE OCCUPANT LOAD EXCEEDS ONE OF THE VALUES IN TABLE 1021.2(2)

FIRST STORY OR BASEMENT: OCCUPANCY A,B,E,F,M,U,S ..... MAXIMUM EXIT ACCESS TRAVEL DISTANCE: 75 FT.
OCCUPANCY LOAD 1ST. FLOOR >49
SECOND STORY: OCCUPANCY B,F,M,S ..... MAXIMUM EXIT ACCESS TRAVEL DISTANCE: 75 FT.
OCCUPANCY LOAD 2ND. FLOOR >29

1021.2.4 THREE OR MORE EXITS:
THREE EXITS, OR EXIT ACCESS STAIRWAYS OR RAMPS PROVIDING ACCESS TO EXITS AT OTHER STORIES SHALL BE PROVIDED FROM ANY STORY OR OCCUPIED ROOF WITH AN OCCUPANT LOAD FROM 501 TO AND INCLUDING 1,000. FOUR EXITS, OR EXIT ACCESS STAIRWAYS OR RAMPS PROVIDING ACCESS TO EXITS AT OTHER STORIES SHALL BE PROVIDED FROM ANY STORY OR OCCUPIED ROOF WITH AN OCCUPANT LOAD GREATER THAN 1,000.

GENERAL CODE INFORMATION

Building: NEW SERVICES FACILITY AND JUSTICE CENTER
Adopted Codes: (City of Edinburg)

2012 International Building Code
2012 International Existing Building Code
2012 International Fire Code
2012 International Mechanical Code
2009 International Energy Code
2012 International Plumbing Code
2012 International Fuel Gas Code
2011 National Electrical Code (NFPA 70)

Reference Documents:

2012 Texas Accessibility Standards, Effective March 15, 2012
Type of Construction: IIB
Fire Sprinklered Throughout: Yes, NFPA 13-2016 Edition per Section 903.3.1.1
Floor Levels: One
Basement: None
Hazardous Materials: None
Flood Hazard Area: No
Design Flood Elevation:
Climate Zone: Zone-2A
Occupancy Classifications: (non-separated)
Group-A-3: Courtroom & waiting/lobby areas
Group-B: Business; office spaces.

OCCUPANCY: ASSEMBLY A-3: 267 OCCUPANTS: 133.5 MALE, 133.5 FEMALE
OCCUPANCY: BUSINESS B: 82 OCCUPANTS: 41 MALE, 41 FEMALE
TOTAL OCCUPANTS: 349 OCCUPANTS

TABLE 2902.3
OCCUPANCY A-3: WATER CLOSETS: 1 PER 125 (MALES) AND 1 PER 65 (FEMALE)
LAVATORIES: 1 PER 200 (MALE AND FEMALE)
DRINKING FOUNTAINS: 1 PER 500
SERVICE SINK: 1

OCCUPANCY B: WATER CLOSETS: 1 PER 25 FIRST 50 THEN 1 PER 50 FOR REMAINDER (MALE AND FEMALE)
LAVATORIES: 1 PER 40 FIRST 80 THEN 1 PER 80 FOR REMAINDER (MALE AND FEMALE)
DRINKING FOUNTAINS: 1 PER 100
SERVICE SINK: 1

TABLE 2902.1: MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES

OCCUPANCY	WATER CLOSET		LAVATORIES		DRINKING FOUNTAIN	OTHER
A-3	MALE: 1/125	FEMALE 1/65	MALE/FEMALE: 1/200		1/500	
	1.06	2.05	.66	.66	.53	1 SERVICE SINK
B	MALE: 1/25	FEMALE 1/25	MALE 1/40	FEMALE: 1/40	1/100	
	1.64	1.64	1.02	1.02	.82	
SUBTOTAL FIXTURES	2.7	3.69	1.68	1.68	1.35	
TOTAL FIXTURES	3	4	2	2	2	1 SERVICE SINK

2012 INTERNATIONAL PLUMBING CODE

419.2 SUBSTITUTION FOR WATER CLOSETS:
IN EACH BATHROOM OR TOILET ROOM, URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 67 PER CENT OF THE REQUIRED WATER CLOSETS IN ASSEMBLY AND EDUCATIONAL OCCUPANCIES. URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 50 PERCENT OF THE REQUIRED WATER CLOSETS IN ALL OTHER OCCUPANCIES.

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02.05.2021

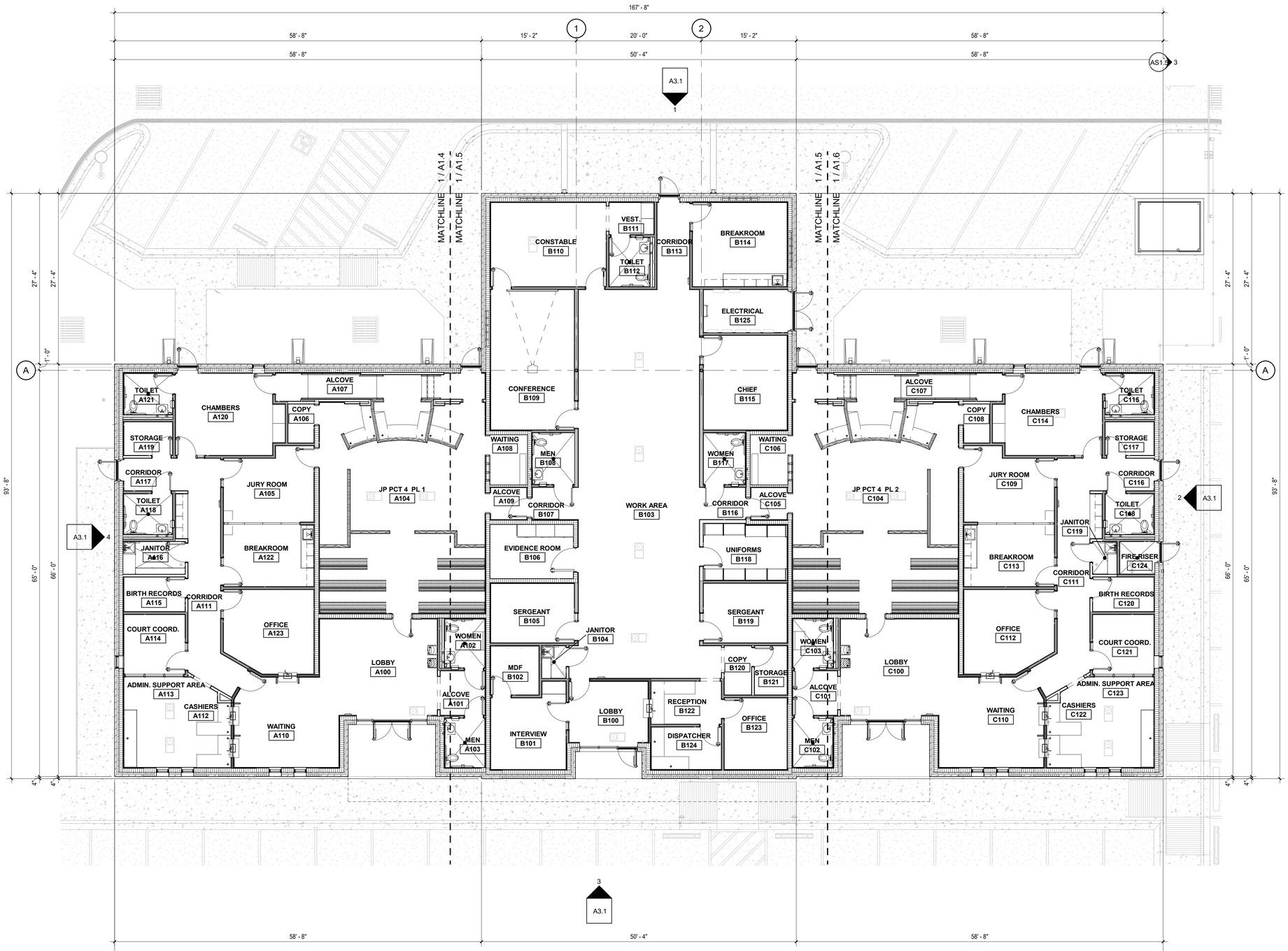
NO.	DATE	DESCRIPTION
		REVISIONS

HIDALGO COUNTY PRECINCT No.4
NEW JUSTICE CENTER
HIDALGO COUNTY, TEXAS
1212 SOUTH 25TH AVENUE, EDINBURG, TEXAS 78542

PROJECT NO: 2018.19
DATE: 2/5/2021 11:31:03 AM
STARTING DATE:
CK BY: Checker DWN BY: C.A.

CODE ANALYSIS LEGEND

A1.2



OVERALL FLOOR PLAN - JUSTICE CENTER

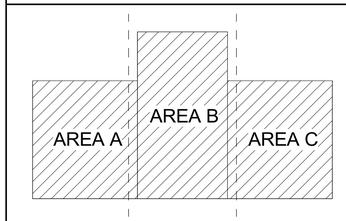
1/8" = 1'-0"

GENERAL BUILDING NOTES

1. REFER TO FIRE PROTECTION PLANS AND BUILDING SECTIONS FOR LOCATION AND HEIGHT OF FIRE RATED WALLS, UNLESS OTHERWISE NOTED.
2. ALL EXPOSED WALL CORNERS SHALL HAVE METAL EDGE TYPICAL.
3. SLAB DEPRESSION AS FOLLOWS:
   A.) 1-1/2" AT RESROOMS WITH TILE FLOOR.
4. UNLESS OTHERWISED INDICATED, DIMENSIONS ARE TO METAL STUDS.
5. PAINT, CAULK AND SEAL AT ALL DISSIMLAR WALL MATERIAL INTERSECTIONS.

SYMBOL LEGEND

- 1 / A101 SIM — CALLOUT HEAD SYMBOL
- 101 — DOOR TAG SYMBOL
- 0 — GRID HEAD SYMBOL
- NAME / ELEVATION — LEVEL SYMBOL
- N — NORTH ARROW SYMBOL
- 1 — REVISION TAG SYMBOL
- Room name / 101 — ROOM TAG SYMBOL
- 1 / A101 SIM — SECTION HEAD SYMBOL
- 1 / A101 — VIEW REFERENCE
- 1i — WALL TAG SYMBOL
- 1t — WINDOW TAG SYMBOL
- Ref / A101 — EXTERIOR ELEVATION TAG SYMBOL
- MATCHLINE SYMBOL
- Ref / A101 — INTERIOR ELEVATION TAG SYMBOL



KEY PLAN

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CONSULTANTS:

REGISTERED ARCHITECT MICHAEL E. ALLEN 75101 STATE OF TEXAS

02.05.2021

NO.	DATE	DESCRIPTION
		REVISIONS

HIDALGO COUNTY PRECINCT No.4
NEW JUSTICE CENTER

HIDALGO COUNTY, TEXAS

1212 SOUTH 25TH AVENUE, EDINBURG, TEXAS 78542

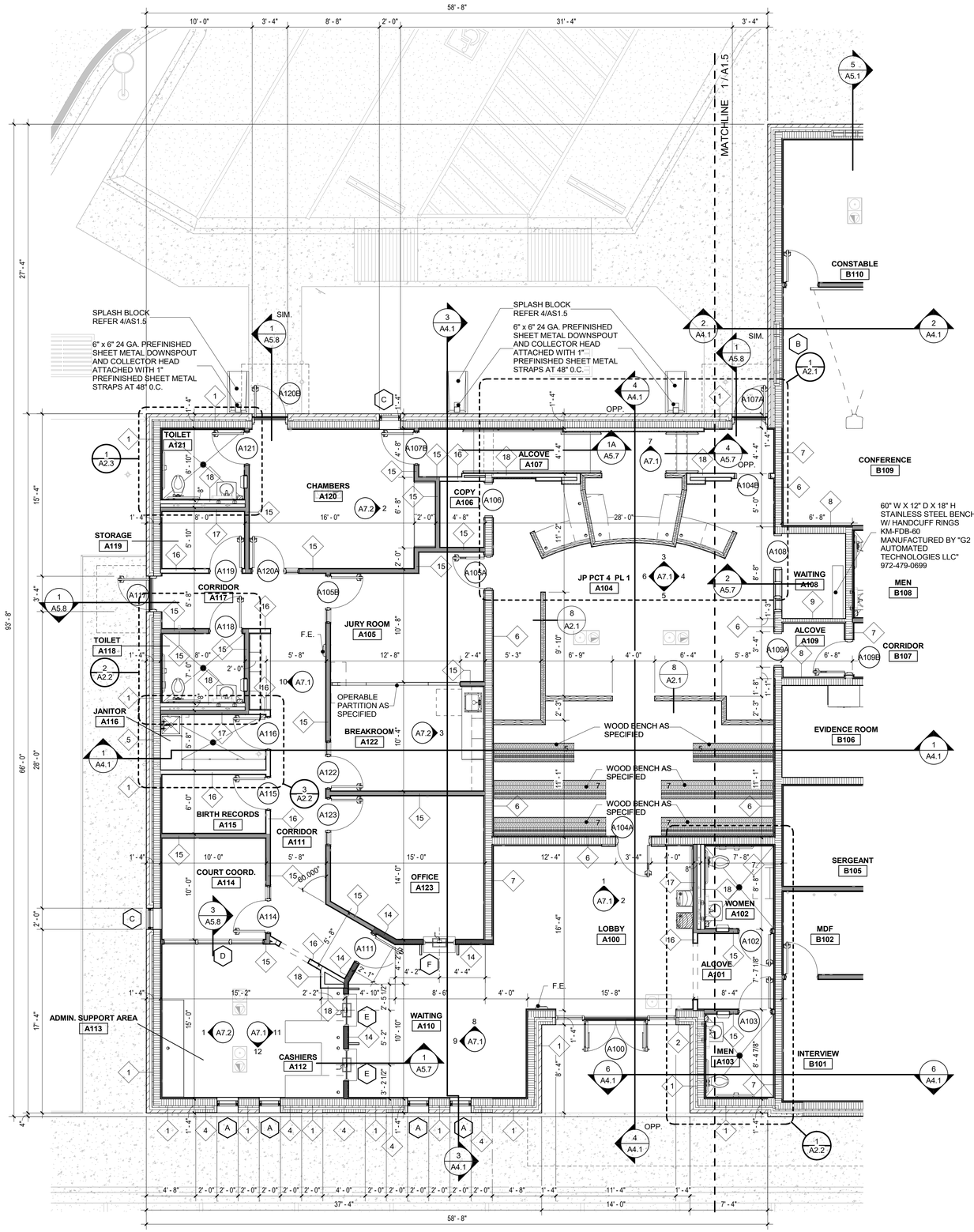
PROJECT NO:	2018.19
DATE:	2/5/2021 11:31:10 AM
STARTING DATE:	
CK BY: Checker	DWN BY: Author

OVERALL FLOOR PLAN - JUSTICE CENTER

A1.3

GENERAL BUILDING NOTES

1. REFER TO FIRE PROTECTION PLANS AND BUILDING SECTIONS FOR LOCATION AND HEIGHT OF FIRE RATED WALLS, UNLESS OTHERWISE NOTED.
2. ALL EXPOSED WALL CORNERS SHALL HAVE METAL EDGE TYPICAL.
3. SLAB DEPRESSION AS FOLLOWS:
   A.) 1-1/2" AT RESROOMS WITH TILE FLOOR.
4. UNLESS OTHERWISED INDICATED, DIMENSIONS ARE TO METAL STUDS.
5. PAINT, CAULK AND SEAL AT ALL DISSIMLAR WALL MATERIAL INTERSECTIONS.



FLOOR PLAN - JP PCT 4 PL 1

3/16" = 1'-0"

1

N

WALL TYPE LEGEND

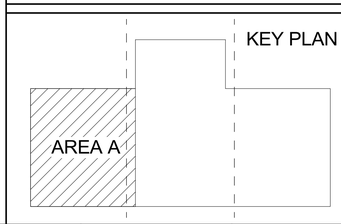
1. EXTERIOR WALL: FACE BRICK WITH 2 3/4" AIRSPACE, 2" EXTRUDED POLYSTYRENE INSUL. BD. ON FLUID APPLIED WEATHER BARRIER OVER 8" CMU, 7/8" MTL. FURRING CHANNELS, 5/8" GYPSUM BOARD.
   TOTAL THICKNESS: 1' - 5 1/2"
2. EXTERIOR WALL: MASONRY VENEER WITH 2 3/4" AIRSPACE, 2" EXTRUDED POLYSTYRENE INSUL. BD. ON FLUID APPLIED WEATHER BARRIER OVER 8" CMU, 7/8" MTL. FURRING CHANNELS, 5/8" GYPSUM BOARD.
   TOTAL THICKNESS: 1' - 5 1/2"
3. EXTERIOR WALL: COMPOSITE WALL PANELS, 5/8" SHEATING WITH 4 1/4" AIRSPACE, 2" EXTRUDED POLYSTYRENE INSUL. BD. ON FLUID APPLIED WEATHER BARRIER OVER 8" CMU, 7/8" MTL. FURRING CHANNELS, 5/8" GYPSUM BOARD.
   TOTAL THICKNESS: 1' - 5 1/2"
4. EXTERIOR WALL: MASONRY VENEER WITH 2 1/4" AIRSPACE, 2" EXTRUDED POLYSTYRENE INSUL. BD. ON FLUID APPLIED WEATHER BARRIER OVER 8" CMU, 7/8" MTL. FURRING CHANNELS, 5/8" GYPSUM BOARD.
   TOTAL THICKNESS: 1' - 5"
5. EXTERIOR WALL: FACE BRICK WITH 2 3/4" AIRSPACE, 2" EXTRUDED POLYSTYRENE INSUL. BD. ON FLUID APPLIED WEATHER BARRIER OVER 8" CMU.
   TOTAL THICKNESS: 1' - 4"
6. INTERIOR WALL: 3/4" MAPLE VENEER PLYWOOD, 1X4 FIRE RETARDANT FURRING STRIPS, 8" CMU, 7/8" MTL. FURRING CHANNELS, 5/8" GYPSUM BOARD.
   TOTAL THICKNESS: 10 5/8"

ALTERNATE NO. 1 WALL TYPE

6. INTERIOR WALL: 7/8" MTL. FURRING CHANNELS, 5/8" GYPSUM BOARD, 8" CMU, 7/8" MTL. FURRING CHANNELS, 5/8" GYPSUM BOARD.
   TOTAL THICKNESS: 10 5/8"

7. INTERIOR WALL: 5/8" GYPSUM BOARD, 7/8" MTL. FURRING CHANNELS, 8" CMU, 7/8" MTL. FURRING CHANNELS, 5/8" GYPSUM BOARD.
   TOTAL THICKNESS: 10 5/8"
8. INTERIOR WALL: 8" CMU, 7/8" MTL. FURRING CHANNELS, 5/8" GYPSUM BOARD.
   TOTAL THICKNESS: 9 1/8"
9. INTERIOR WALL: 4" CMU, 7/8" MTL. FURRING CHANNELS, 5/8" GYPSUM BOARD.
   TOTAL THICKNESS: 5 1/8"
10. INTERIOR WALL: 5/8" GYPSUM BOARD, 6" MTL. STUDS WITH SOUND BATT INSUL., 5/8" GYPSUM BOARD.
    TOTAL THICKNESS: 7 1/4"
11. INTERIOR WALL: 5/8" GYPSUM BOARD, 6" MTL. STUDS, 5/8" GYPSUM BOARD.
    TOTAL THICKNESS: 7 1/4"
12. INTERIOR WALL: 5/8" GYPSUM BOARD, 6" MTL. STUDS WITH SOUND BATT INSUL.
    TOTAL THICKNESS: 6 5/8"
13. INTERIOR WALL: 5/8" GYPSUM BOARD, 4" MTL. STUDS, 1X4 FIRE RETARDANT FURRING STRIPS, 3/4" MAPLE VENEER PLYWOOD.
    TOTAL THICKNESS: 6 1/8"
14. INTERIOR WALL: 5/8" GYPSUM BOARD, 1/2" BULLET RESISTANT FIBERGLASS PANELS 4" MTL. STUDS, 5/8" GYPSUM BOARD.
    TOTAL THICKNESS: 5 3/4"
15. INTERIOR WALL: 5/8" GYPSUM BOARD, 4" MTL. STUDS WITH SOUND BATT INSUL., 5/8" GYPSUM BOARD.
    TOTAL THICKNESS: 5 1/4"
16. INTERIOR WALL: 5/8" GYPSUM BOARD, 4" MTL. STUDS , 5/8" GYPSUM BOARD.
    TOTAL THICKNESS: 5 1/4"
17. INTERIOR WALL: 5/8" GYPSUM BOARD, 4" MTL. STUDS WITH SOUND BATT INSUL.
    TOTAL THICKNESS: 4 5/8"
18. INTERIOR WALL: 5/8" GYPSUM BOARD, 4" MTL. STUDS.
    TOTAL THICKNESS: 4 5/8"

KEY PLAN



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02.05.2021

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NEW JUSTICE CENTER

HIDALGO COUNTY, TEXAS
EDINBURG, TEXAS 78542
1212 SOUTH 25TH AVENUE,

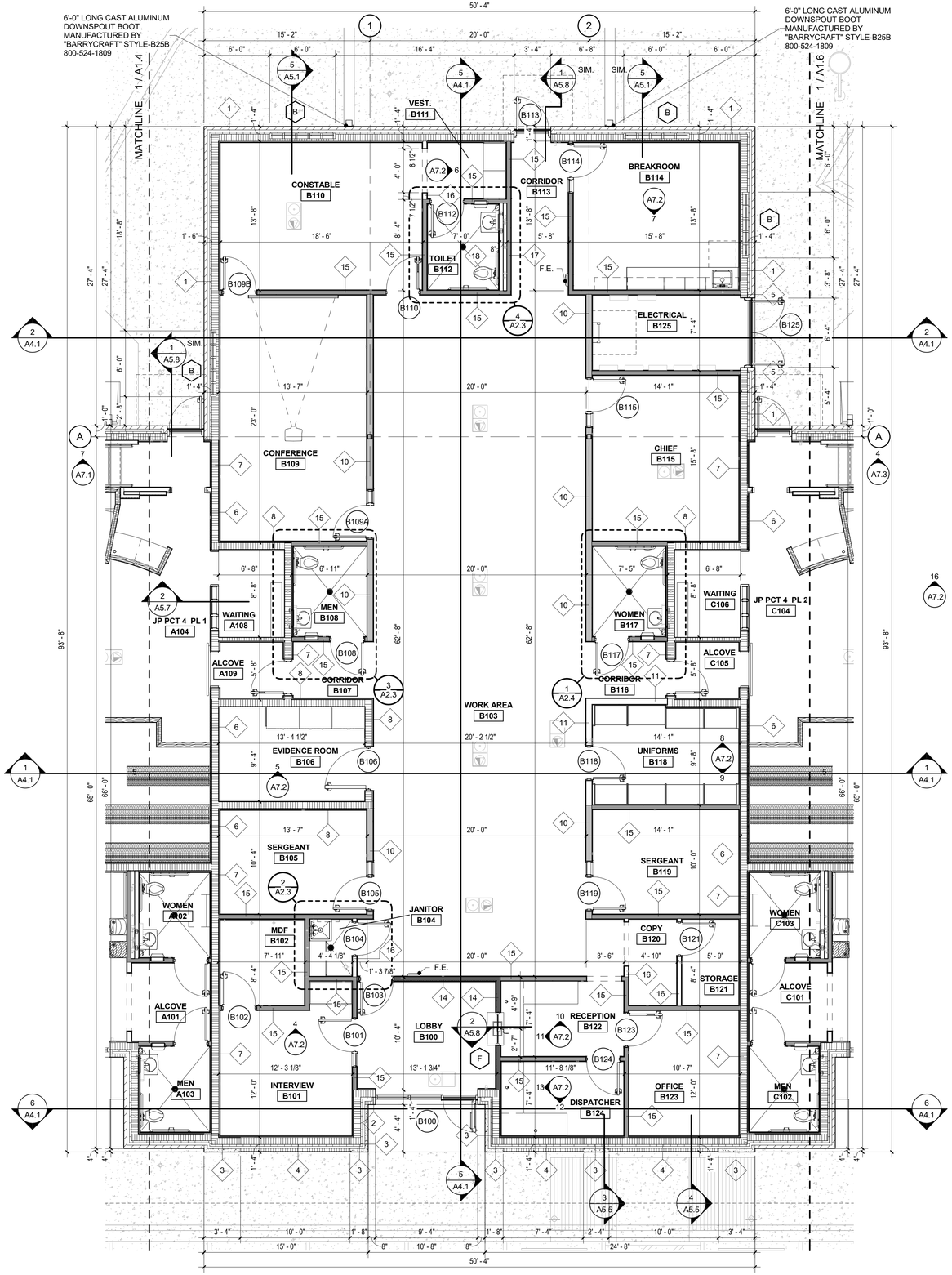
PROJECT NO: 2018.19
DATE: 2/5/2021 11:31:15 AM
STARTING DATE:
CK BY:Checker DWN BY:Author

FLOOR PLAN - JP PCT 4 PL 1

A1.4

GENERAL BUILDING NOTES

1. REFER TO FIRE PROTECTION PLANS AND BUILDING SECTIONS FOR LOCATION AND HEIGHT OF FIRE RATED WALLS, UNLESS OTHERWISE NOTED.
2. ALL EXPOSED WALL CORNERS SHALL HAVE METAL EDGE TYPICAL.
3. SLAB DEPRESSION AS FOLLOWS:
   A.) 1-1/2" AT RESROOMS WITH TILE FLOOR.
4. UNLESS OTHERWISED INDICATED, DIMENSIONS ARE TO METAL STUDS.
5. PAINT, CAULK AND SEAL AT ALL DISSIMLAR WALL MATERIAL INTERSECTIONS.



WALL TYPE LEGEND

1. EXTERIOR WALL: FACE BRICK WITH 2 3/4" AIRSPACE, 2" EXTRUDED POLYSTYRENE INSUL. BD. ON FLUID APPLIED WEATHER BARRIER OVER 8" CMU, 7/8" MTL. FURRING CHANNELS, 5/8" GYPSUM BOARD.
   TOTAL THICKNESS: 1' - 5 1/2"
2. EXTERIOR WALL: MASONRY VENEER WITH 2 3/4" AIRSPACE, 2" EXTRUDED POLYSTYRENE INSUL. BD. ON FLUID APPLIED WEATHER BARRIER OVER 8" CMU, 7/8" MTL. FURRING CHANNELS, 5/8" GYPSUM BOARD.
   TOTAL THICKNESS: 1' - 5 1/2"
3. EXTERIOR WALL: COMPOSITE WALL PANELS, 5/8" SHEATING WITH 4 1/4" AIRSPACE, 2" EXTRUDED POLYSTYRENE INSUL. BD. ON FLUID APPLIED WEATHER BARRIER OVER 8" CMU, 7/8" MTL. FURRING CHANNELS, 5/8" GYPSUM BOARD.
   TOTAL THICKNESS: 1' - 5 1/2"
4. EXTERIOR WALL: MASONRY VENEER WITH 2 1/4" AIRSPACE, 2" EXTRUDED POLYSTYRENE INSUL. BD. ON FLUID APPLIED WEATHER BARRIER OVER 8" CMU, 7/8" MTL. FURRING CHANNELS, 5/8" GYPSUM BOARD.
   TOTAL THICKNESS: 1' - 5"
5. EXTERIOR WALL: FACE BRICK WITH 2 3/4" AIRSPACE, 2" EXTRUDED POLYSTYRENE INSUL. BD. ON FLUID APPLIED WEATHER BARRIER OVER 8" CMU.
   TOTAL THICKNESS: 1' - 4"
6. INTERIOR WALL: 3/4" MAPLE VENEER PLYWOOD, 1X4 FIRE RETARDANT FURRING STRIPS, 8" CMU, 7/8" MTL. FURRING CHANNELS, 5/8" GYPSUM BOARD.
   TOTAL THICKNESS: 10 5/8"

ALTERNATE NO. 1 WALL TYPE

6. INTERIOR WALL: 7/8" MTL. FURRING CHANNELS, 5/8" GYPSUM BOARD, 8" CMU, 7/8" MTL. FURRING CHANNELS, 5/8" GYPSUM BOARD.
   TOTAL THICKNESS: 10 5/8"
7. INTERIOR WALL: 5/8" GYPSUM BOARD, 7/8" MTL. FURRING CHANNELS, 8" CMU, 7/8" MTL. FURRING CHANNELS, 5/8" GYPSUM BOARD.
   TOTAL THICKNESS: 10 5/8"
8. INTERIOR WALL: 8" CMU, 7/8" MTL. FURRING CHANNELS, 5/8" GYPSUM BOARD.
   TOTAL THICKNESS: 9 1/8"
9. INTERIOR WALL: 4" CMU, 7/8" MTL. FURRING CHANNELS, 5/8" GYPSUM BOARD.
   TOTAL THICKNESS: 5 1/8"
10. INTERIOR WALL: 5/8" GYPSUM BOARD, 6" MTL. STUDS WITH SOUND BATT INSUL., 5/8" GYPSUM BOARD.
    TOTAL THICKNESS: 7 1/4"
11. INTERIOR WALL: 5/8" GYPSUM BOARD, 6" MTL. STUDS, 5/8" GYPSUM BOARD.
    TOTAL THICKNESS: 7 1/4"
12. INTERIOR WALL: 5/8" GYPSUM BOARD, 6" MTL. STUDS WITH SOUND BATT INSUL.
    TOTAL THICKNESS: 6 5/8"
13. INTERIOR WALL: 5/8" GYPSUM BOARD, 4" MTL. STUDS, 1X4 FIRE RETARDANT FURRING STRIPS, 3/4" MAPLE VENEER PLYWOOD.
    TOTAL THICKNESS: 6 1/8"
14. INTERIOR WALL: 5/8" GYPSUM BOARD, 1/2" BULLET RESISTANT FIBERGLASS PANELS 4" MTL. STUDS, 5/8" GYPSUM BOARD.
    TOTAL THICKNESS: 5 3/4"
15. INTERIOR WALL: 5/8" GYPSUM BOARD, 4" MTL. STUDS WITH SOUND BATT INSUL., 5/8" GYPSUM BOARD.
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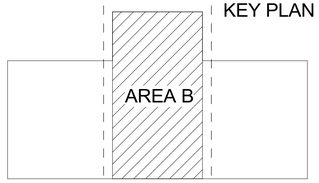
16. INTERIOR WALL: 5/8" GYPSUM BOARD, 4" MTL. STUDS , 5/8" GYPSUM BOARD.
    TOTAL THICKNESS: 5 1/4"
17. INTERIOR WALL: 5/8" GYPSUM BOARD, 4" MTL. STUDS WITH SOUND BATT INSUL.
    TOTAL THICKNESS: 4 5/8"
18. INTERIOR WALL: 5/8" GYPSUM BOARD, 4" MTL. STUDS.
    TOTAL THICKNESS: 4 5/8"

KEY PLAN



FLOOR PLAN - CONSTABLE PCT 4

3/16" = 1'-0"

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02.05.2021

NO.	DATE	REVISIONS DESCRIPTION

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HIDALGO COUNTY, TEXAS

1212 SOUTH 25TH AVENUE, EDINBURG, TEXAS 78542

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CK BY:Checker	DWN BY:Author

FLOOR PLAN - CONSTABLE PCT 4

A1.5

GENERAL BUILDING NOTES

1. REFER TO FIRE PROTECTION PLANS AND BUILDING SECTIONS FOR LOCATION AND HEIGHT OF FIRE RATED WALLS, UNLESS OTHERWISE NOTED.
2. ALL EXPOSED WALL CORNERS SHALL HAVE METAL EDGE TYPICAL.
3. SLAB DEPRESSION AS FOLLOWS:
   A.) 1-1/2" AT RESROOMS WITH TILE FLOOR.
4. UNLESS OTHERWISED INDICATED, DIMENSIONS ARE TO METAL STUDS.
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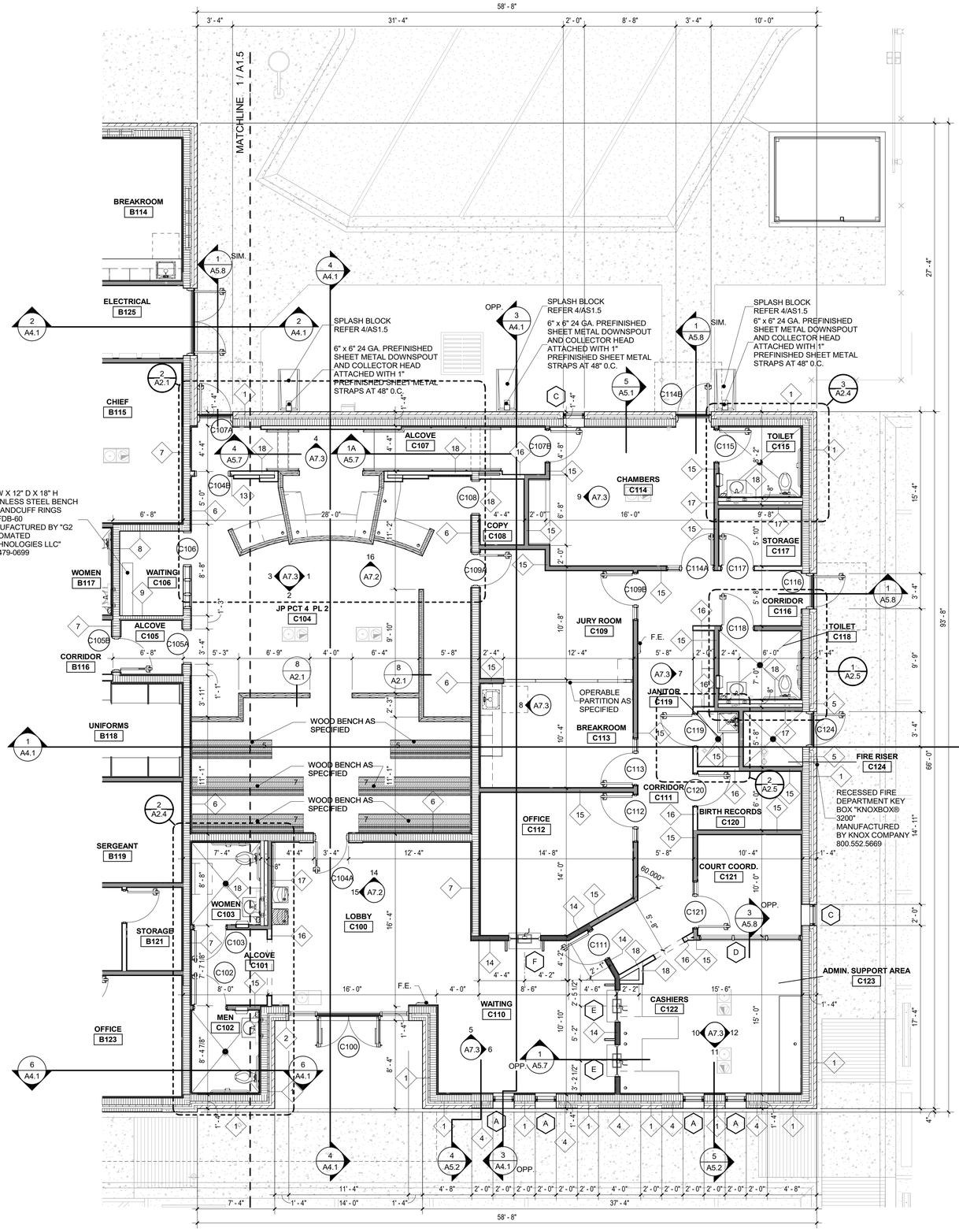

FLOOR PLAN - JP PCT 4 PL 2

3/16" = 1'-0"

WALL TYPE LEGEND

1. EXTERIOR WALL: FACE BRICK WITH 2 3/4" AIRSPACE, 2" EXTRUDED POLYSTYRENE INSUL. BD. ON FLUID APPLIED WEATHER BARRIER OVER 8" CMU, 7/8" MTL. FURRING CHANNELS, 5/8" GYPSUM BOARD.
   TOTAL THICKNESS: 1' - 5 1/2"
2. EXTERIOR WALL: MASONRY VENEER WITH 2 3/4" AIRSPACE, 2" EXTRUDED POLYSTYRENE INSUL. BD. ON FLUID APPLIED WEATHER BARRIER OVER 8" CMU, 7/8" MTL. FURRING CHANNELS, 5/8" GYPSUM BOARD.
   TOTAL THICKNESS: 1' - 5 1/2"
3. EXTERIOR WALL: COMPOSITE WALL PANELS, 5/8" SHEATING WITH 4 1/4" AIRSPACE, 2" EXTRUDED POLYSTYRENE INSUL. BD. ON FLUID APPLIED WEATHER BARRIER OVER 8" CMU, 7/8" MTL. FURRING CHANNELS, 5/8" GYPSUM BOARD.
   TOTAL THICKNESS: 1' - 5 1/2"
4. EXTERIOR WALL: MASONRY VENEER WITH 2 1/4" AIRSPACE, 2" EXTRUDED POLYSTYRENE INSUL. BD. ON FLUID APPLIED WEATHER BARRIER OVER 8" CMU, 7/8" MTL. FURRING CHANNELS, 5/8" GYPSUM BOARD.
   TOTAL THICKNESS: 1' - 5"
5. EXTERIOR WALL: FACE BRICK WITH 2 3/4" AIRSPACE, 2" EXTRUDED POLYSTYRENE INSUL. BD. ON FLUID APPLIED WEATHER BARRIER OVER 8" CMU.
   TOTAL THICKNESS: 1' - 4"
6. INTERIOR WALL: 3/4" MAPLE VENEER PLYWOOD, 1X4 FIRE RETARDANT FURRING STRIPS, 8" CMU, 7/8" MTL. FURRING CHANNELS, 5/8" GYPSUM BOARD.
   TOTAL THICKNESS: 10 5/8"

ALTERNATE NO. 1 WALL TYPE

6. INTERIOR WALL: 7/8" MTL. FURRING CHANNELS, 5/8" GYPSUM BOARD, 8" CMU, 7/8" MTL. FURRING CHANNELS, 5/8" GYPSUM BOARD.
   TOTAL THICKNESS: 10 5/8"
7. INTERIOR WALL: 5/8" GYPSUM BOARD, 7/8" MTL. FURRING CHANNELS, 8" CMU, 7/8" MTL. FURRING CHANNELS, 5/8" GYPSUM BOARD.
   TOTAL THICKNESS: 10 5/8"
8. INTERIOR WALL: 8" CMU, 7/8" MTL. FURRING CHANNELS, 5/8" GYPSUM BOARD.
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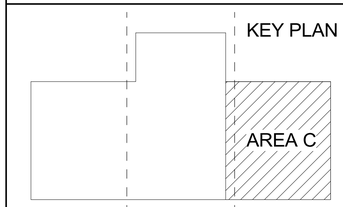
KEY PLAN



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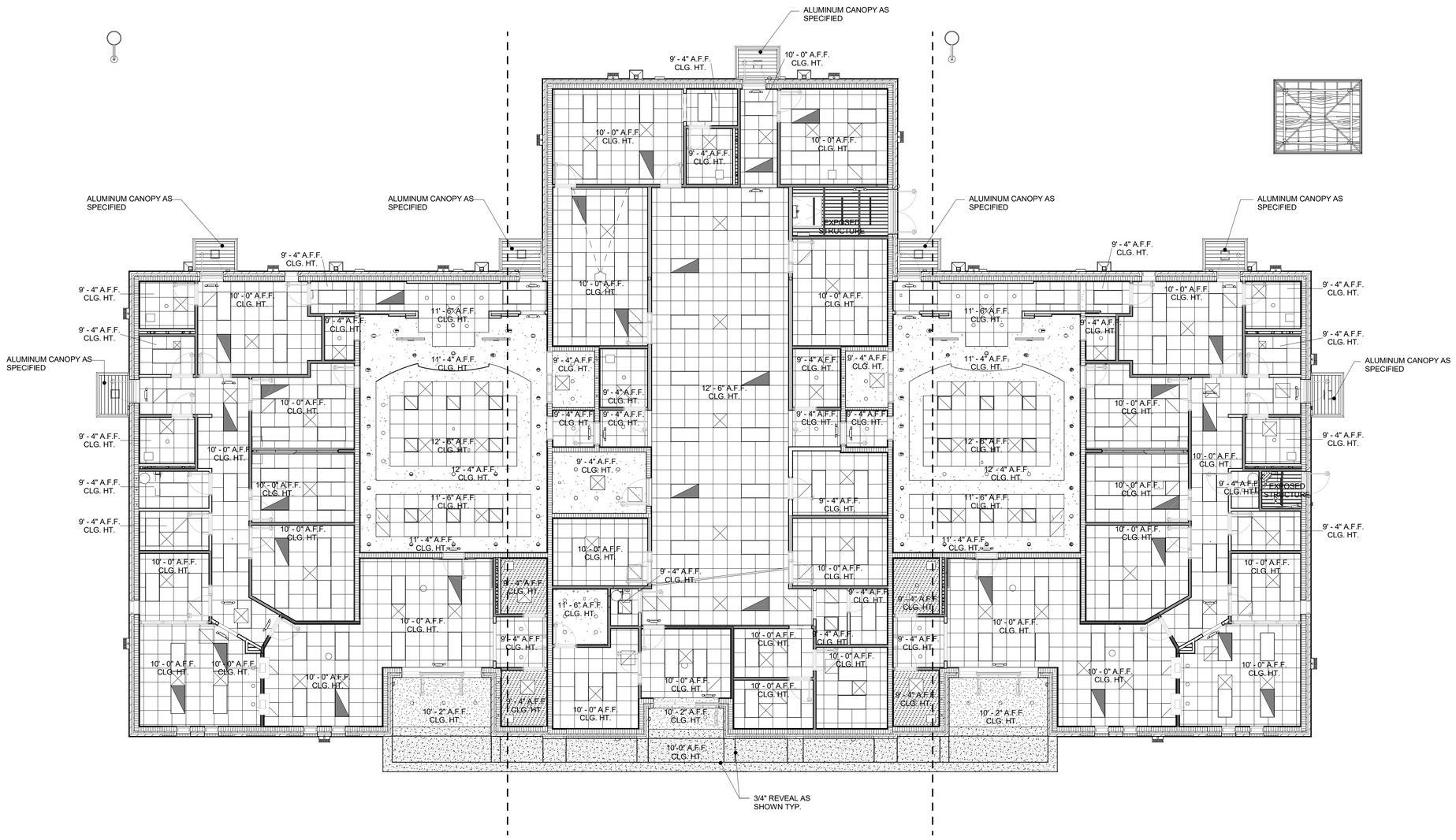
FLOOR PLAN - JP PCT 4 PL 2

A1.6



REFLECTED CEILING PLAN

1/8" = 1'-0"

REFLECTED CEILING PLAN GENERAL NOTES

1. **GENERAL CONTRACTOR TO VERIFY LIGHT FIXTURE LOCATIONS, TYPES AND QUANTITES WITH MEP DRAWINGS.**
2. **COMMON CEILING HEIGHT TO 10'-0" UNLESS OTHERWISED NOTED.**
3. **GENERAL CONTRACTOR TO REVIEW ALL CEILING HEIGHTS AND CEILING MATERIALS WITH ALL DRAWINGS AND SPECIFICATIONS, SHOULD A CONFLICT ARISE CONSULT ARCHITECT BEFORE COMMENCING CEILING WORK.**
4. **REFER TO MEP ENGINEER DRAWINGS FOR EMERGENCY LIGHT FIXTURE AND EXIT LIGHT FIXTURE LOCATIONS, TYPES AND QUANTITES.**
5. **REFER TO MEP ENGINEER DRAWINGS FOR LIGHTING SPECIFICATIONS, CIRCUITING AND SWITCHING CONTROLS.**

REFLECTED CEILING TYPE LEGEND

- **SUSPENDED ACOUSTICAL CEILINGS** — ACOUSTICAL UNITS AND SUSPENSION SYSTEM(S) 2'-0" x 2'-0" SUSPENDED ACOUSTICAL CLING SYSTEM.
- **SUSPENDED GYPSUM BOARD ASSEMBLIES** — 5/8" GYPSUM BOARD, (TAPE, FLOAT, TEXTURE AND PAINT) ON DRYWALL GRID SYSTEM SUSPEND FROM STRUCTURE.
- **SUSPENDED GYPSUM BOARD ASSEMBLIES** — 2- LAYERS OF 5/8" TYPE "X" GYPSUM BOARD, (TAPE, FLOAT, TEXTURE AND PAINT) ON DRYWALL GRID SYSTEM SUSPEND FROM STRUCTURE.
- **SUSPENDED STUCCO FINISH ASSEMBLIES** — 3/4" STUCCO FINISH (PAINT), ON METAL LATH SYSTEM SUSPEND FROM 1-1/2" METAL STUD STRUCTURE.
- **EXPOSED STRUCTURE** — OPEN TO BUILDING STRUCTURE ABOVE (PAINT) JOISTS, BEAMS AND UNDERSIDE OF METAL DECKING.
- **EXTERIOR WALL LIGHT FIXTURE** — AS SCHEDULE. REFER MEP DRAWINGS.
- **EXTERIOR WALL LIGHT FIXTURE** — AS SCHEDULE. REFER MEP DRAWINGS.
- **1'x4' STRIP LIGHT FIXTURE** — AS SCHEDULE. REFER MEP DRAWINGS.
- **2'x4' LAY-IN LIGHT FIXTURE** — AS SCHEDULE. REFER MEP DRAWINGS.
- **2'x4' LAY-IN EMERGENCY LIGHT FIXTURE** — AS SCHEDULE. REFER MEP DRAWINGS.
- **2'x2' LAY-IN LIGHT FIXTURE** — AS SCHEDULE. REFER MEP DRAWINGS.
- **2'x2' LAY-IN EMERGENCY LIGHT FIXTURE** — AS SCHEDULE. REFER MEP DRAWINGS.
- **DOWN LIGHT FIXTURE** — AS SCHEDULE. REFER MEP DRAWINGS.
- **WALL LIGHT FIXTURE** — AS SCHEDULE. REFER MEP DRAWINGS.
- **SUPPLY AIR DIFFUSERS** — AS SCHEDULE. REFER MEP DRAWINGS.
- **RETURN AIR DIFFUSERS** — AS SCHEDULE. REFER MEP DRAWINGS.
- **EXHAUST AIR GRILLE** — AS SCHEDULE. REFER MEP DRAWINGS.

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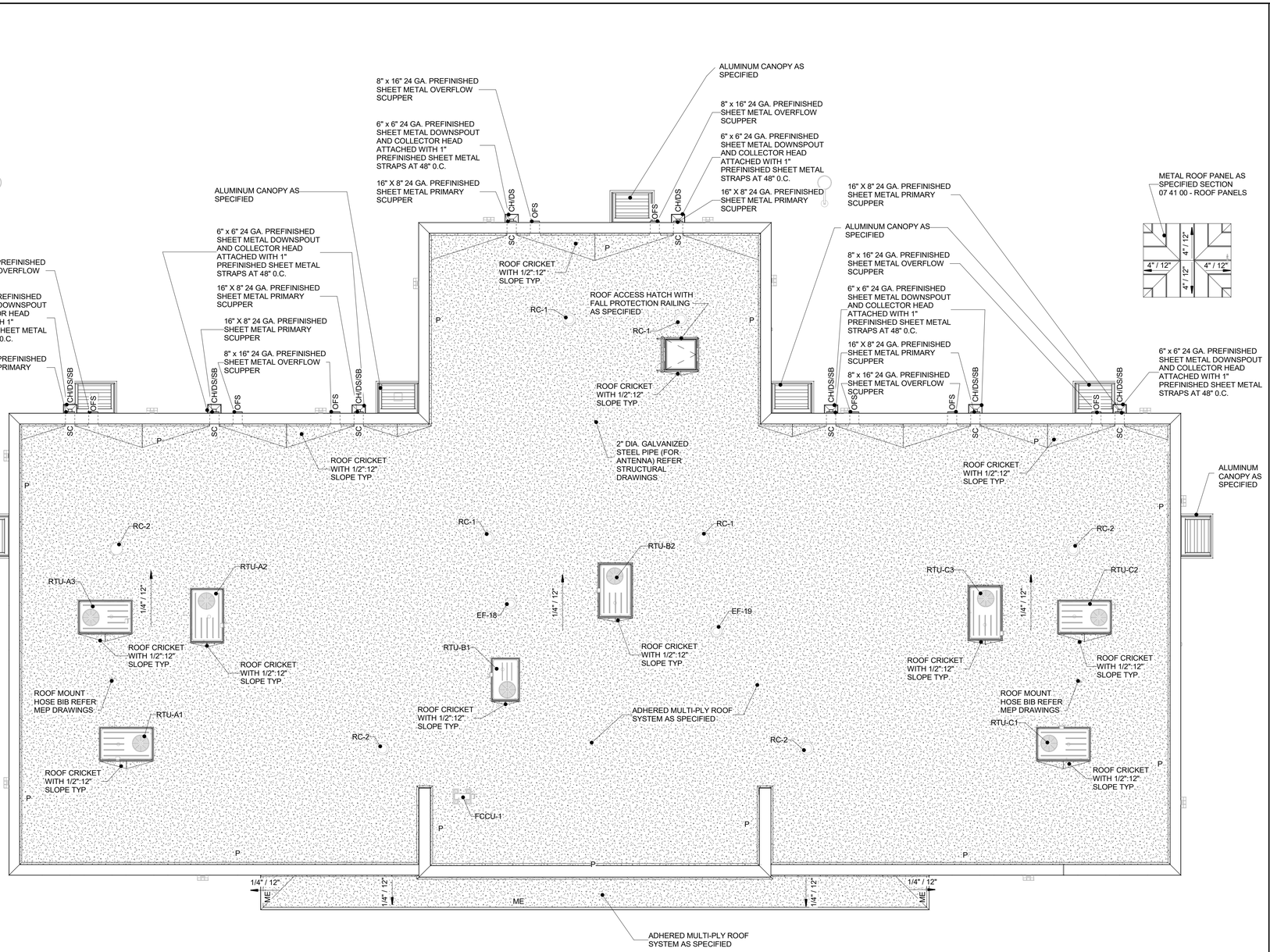
REFLECTED CEILING PLAN

A1.7



ROOF PLAN

1/8" = 1'-0"

1

N

GENERAL ROOF NOTES

A. PROVIDE ALL REQUIRED UTILITY / STRUCTURAL COMPONENTS AND/OR CONNECTIONS FOR THE FUNCTIONAL USE OF ALL CONTRACTOR SUPPLIED EQUIPMENT OR APPLIANCES, REGARDLESS OF ANY OMISSIONS OR INCONSISTENCIES ENCOUNTERED IN THE CONSTRUCTION DOCUMENTS.
B. THE WORD 'PROVIDE' SHALL MEAN 'FURNISH AND INSTALL COMPLETE AND READY TO USE.'
C. IF DISCREPANCIES APPEAR BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE HIGHER QUALITY, QUANTITY, AND PRICE SHALL SUPERSEDE.
D. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL BECOME FAMILIAR WITH THE PROJECT AND THE ON-SITE / OFF-SITE CONDITIONS PRIOR TO BIDDING OR COMMENCING WORK.
E. PROVIDE METAL END CLOSURE ON EXPANSION JOINTS WHERE THEY OCCUR AT THE EDGE OF THE ROOF.
F. ROOF SLOPES SHOWN ON DRAWING ARE GENERAL AND CONCEPTUAL ONLY. PROVIDE POSITIVE DRAINAGE TO ALL ROOF DRAINS. VERIFY TAPER IN SHOP DRAWINGS. REFER TO STRUCTURAL DOCUMENTS FOR EXACT TOS/BOD ELEVATIONS.
G. PROVIDE TAPERED INSULATION CRICKETS (1/2"/FT. MIN. SLOPE) AT HIGH SIDE OF ALL MECHANICAL UNITS SMOKE VENTS, ROOF HATCHES & OTHER MISC. ROOF PENETRATIONS, TO SHED WATER AROUND & TO ENSURE POSITIVE ROOF DRAINAGE.
H. PROVIDE ADDITIONAL FULLY ADHERED MEMBRANES AS PROTECTION AT "SERVICE SIDE" OF ALL MECH. EQUIPMENT, ACCESS POINTS OF ALL ROOF HATCHES AND ROOF ACCESS LADDERS FIELD VERIFY LOCATIONS.
I. ALL WOOD BLOCKING AT ROOF EDGES ARE TO BE FABRICATED FROM CONT. 2X6 FR-WD BOARDS. PROVIDE LARGER 2X FR-WD AS REQUIRED PER DIMENSIONED DETAILED OR AS FIELD CONDITIONS DICTATE. ALL COPING TO BE SLOPED TOWARD THE INTERIOR.
J. ALL EXPOSED FLASHING, COPING (IF APPLICABLE) AND THEIR ACCESSORIES SHALL BE AS SPECIFIED. PAINT ALL METAL FLASHING THAT IS NOT PREFINISHED (TYP) AND VISIBLE FROM THE GROUND.
K. HEIGHT OF ALL NAILERS SHALL BE FLUSH WITH TOP OF NEW INSULATION THICKNESS
L. ALL THROUGH WALL FLASHING SYSTEMS TO ACCOMMODATE 8" MINIMUM FLASHING HEIGHT FROM FINISHED ROOF SURFACE. PROVIDE END DAMS AS CONDITIONS ALLOW. ALL FLASHING TO HAVE 4" LAP MINIMUM AND OR STEP
M. ALL PITCH PANS SHALL BE CLAD METAL AND RECEIVE EITHER MECHANICALLY ATTACHED GOOSENECK OR METAL BONNETS. METAL BONNETS SHALL BE SECURED WITH CLAMPING RING AND SEALANT. SPECIAL CARE GIVEN TO WASH ALL METAL PRIOR TO INSTALLATION.
N.
P. ALL VERTICAL MEMBRANE FLASHING SHALL BE MECHANICALLY FASTENED AND INSTALLED WITH NEW METAL COUNTER FLASHING UTILIZING A CONTINUOUS CLIP. SLIDE METAL COVER PLATE DOWN OVER VERTICAL CLIP AND SEAL.
Q. PROVIDE NEW CONCRETE SPLASH BLOCKS ON ROOF ELEVATION SUPPORTED BY A WALK PAD WHERE DOWNSPOUTS OCCUR.
R. ALL PIPE AND CONDUIT SHALL RECEIVE PIPE SUPPORTS AND RELATED SHIMS, AND SHALL BE PLACED ON AN ADDITIONAL FULLY ADHERED ROOF MEMBRANE UNDER SPECIFIED WALK PAD PRIOR TO SURFACE APPLICATION. SUPPORTS TO OCCUR AT 10'-0" O.C. AND WITHIN 2'-0" OF ALL SLOPES, TEES AND CORNERS. ALL PIPE TO BE PAINTED PER BUILDING CODE REQUIREMENTS.
S. ALL METAL FLASHING SHALL EXTEND BEYOND ROOF EDGE MIN. 8" WHERE FLASHING ABUTS VERTICAL WALL SURFACE AS DETAILED. ALL FLASHING SHALL BE INSTALLED IN SHINGLE FASHION.
T. AT ALL LOCATIONS WHERE CONVERGENCE OF MULTIPLE PLANE OF ROOFING TO WALL OCCURS, FIELD FABRICATE THERMOPLASTIC BOOT TO BE INSTALLED OVER NEW ROOFING, COMPLETELY OVERLAYING THE TRANSITIONS OF ALL ROOF TO WALL, ELEVATIONS, INSIDE / OUTSIDE 90'S ETC. PRIOR TO METAL INSTALLATION.
U. ALL EQUIPMENT CURBS TO BE SET OR RAISED AS NECESSARY TO MAINTAIN 10" MINIMUM HEIGHT ABOVE FINISHED ROOF SURFACE.
V. MECHANICAL, ELECTRICAL, AND PLUMBING ROOF EQUIPMENT SHOWN ON THIS PLAN IS FOR GENERAL ARCHITECTURAL INFORMATION ONLY. REFER TO MEP DOCUMENTS FOR ROOFTOP EQUIPMENT NOT SHOWN, AND FOR ADDITIONAL REQUIREMENTS AND COORDINATION.
W. FLASHING AND STRIPPING MATERIALS, MEMBRANES, INSULATION, AND ACCESSORIES SHOULD BE RECOMMENDED BY THE ROOFING SYSTEM MANUFACTURER FOR INTENDED USE AND COMPATIBILITY WITH THE MEMBRANE ROOFING SYSTEM.
X.
Y. ALL VERTICAL MEMBRANE FLASHING SHALL BE MECHANICALLY FASTENED AND INSTALLED WITH NEW METAL COUNTER FLASHING UTILIZING A CONTINUOUS CLIP. SLIDE METAL COVER PLATE DOWN OVER VERTICAL CLIP AND SEAL.
Z. REFER TO MEP DOCUMENTS FOR THE PIPE SUPPORT LOCATIONS, TYPE, AND DETAILS. PAD SHALL BE MIN 2" WIDER THAN SUPPORT IN ALL DIRECTIONS.
AA.
AB. GUTTERS SHALL BE PREFINISHED GALVANIZED STEEL, SIZE PER ROOF PLAN, UNO. PROVIDE PREFINISHED 1/4"x1 1/2" GALVANIZED STEEL BENT PLATE BRACKETS AND PREFINISHED 1" GALVANIZED STEEL SPACERS AT 36" O.C. MAX, STAGGER WITH EACH OTHER AT 18" O.C.
AC. PROVIDE PREFINISHED GUTTER EJ'S 30'-0" O.C. MAX.
AD. DOWNSPOUTS SHALL BE 4"x6" PREFINISHED GALVANIZED STEEL UNO AS INDICATED ON ROOF PLAN. PROVIDE PREFINISHED 2" GALVANIZED STEEL HANGERS AT 36" O.C. PROVIDE VANDAL PROOF STAINLESS STEEL STRAINERS AT EACH OUTLET. COORDINATE LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
AE. PROVIDE CAST IRON BOOT PER TYP AT ALL DOWNSPOUTS THAT ARE TO GRADE, CONNECT TO STORM SEWER.
AF. PROVIDE SPLASH BLOCKS AT ALL ROOF LEADER NOZZLES THAT SPILL ONTO GROUND.
AG.
AI. ROOF PLAN SHOWS TAPERED INSULATION CONCEPTUALLY AND FOR INTENT ONLY. TAPERED INSULATION IS NOT SHOWN TO SCALE AND IS SHOWN AS GRAPHIC REPRESENTATION ONLY IN ORDER TO SHOW SLOPE AND APPROXIMATE LOCATIONS OF MATERIAL. VERIFY INSULATION REQUIRED TO MAINTAIN SLOPE PRIOR TO INSTALLATION. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

ROOF LEGEND

- ROOF SYSTEM AS SPECIFIED
- EXTRUDED ALUMINUM CANOPY AS SPECIFIED

SOIL/PLUMBING VENT; PITCH PAN; FLANGE MOUNTED EQUIPMENT; PROCESS VENT STACK; HOT STACK; VENT STACK; CURB MOUNTED VENT; FLANGE MOUNTED VENT; ROOF TOP UNIT; PLENUM RTU ON PITCH PANS; CURB MOUNTED EQUIPMENT; MISCELLANEOUS EQUIPMENT; MISCELLANEOUS EQUIPMENT ON PP; SKYLIGHT; PRIMARY ROOF DRAIN; THROUGH WALL SCUPPER; OVERFLOW ROOF DRAIN; OVERFLOW SCUPPER; PRIMARY AND OVERFLOW ROOF DRAIN; EDGE SCUPPER; DOWNSPOUT/ SPLASHBLOCK; DOWNSPOUT/ COLLECTOR HEAD; EXPANSION JOINT; DOWNSPOUT; METAL EDGE W/GUTTER; ROOF ACCESS LADDER; METAL EDGE; PARAPET; RISE WALL; EXPANSION JOINT AT PARAPET; RAISED METAL EDGE; SLOPE DIRECTION; RISE WALL W/EXPANSION JOINT

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CONSULTANTS:

REGISTERED ARCHITECT MICHAEL E ALLEN 15101 STATE OF TEXAS

02.05.2021

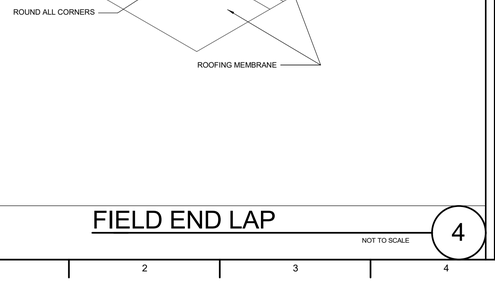
NO.	DATE	DESCRIPTION
		REVISIONS

HIDALGO COUNTY PRECINCT No.4
NEW JUSTICE CENTER
HIDALGO COUNTY, TEXAS
1212 SOUTH 25TH AVENUE, EDINBURG, TEXAS 78542

PROJECT NO: 2018.19
DATE: 2/5/2021 11:31:35 AM
STARTING DATE:
CK BY: Checker | DWN BY: Author

ROOF PLAN

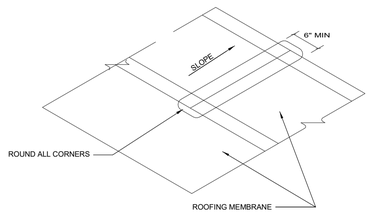
A1.8



MECHANICAL CURB

NOT TO SCALE

8



FIELD END LAP

NOT TO SCALE

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PRIMARY AND OVERFLOW SCUPPER

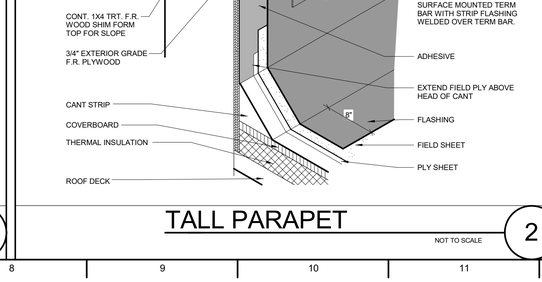
NOT TO SCALE

7

WALKWAY PAD

NOT TO SCALE

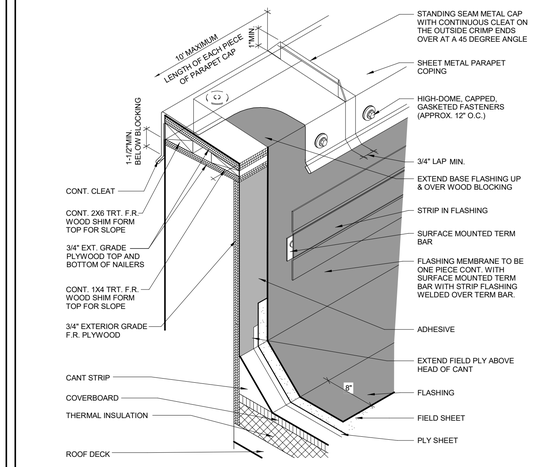
3



FLASHING AT COMPOSITE WALL PANELS

NOT TO SCALE

6



TALL PARAPET

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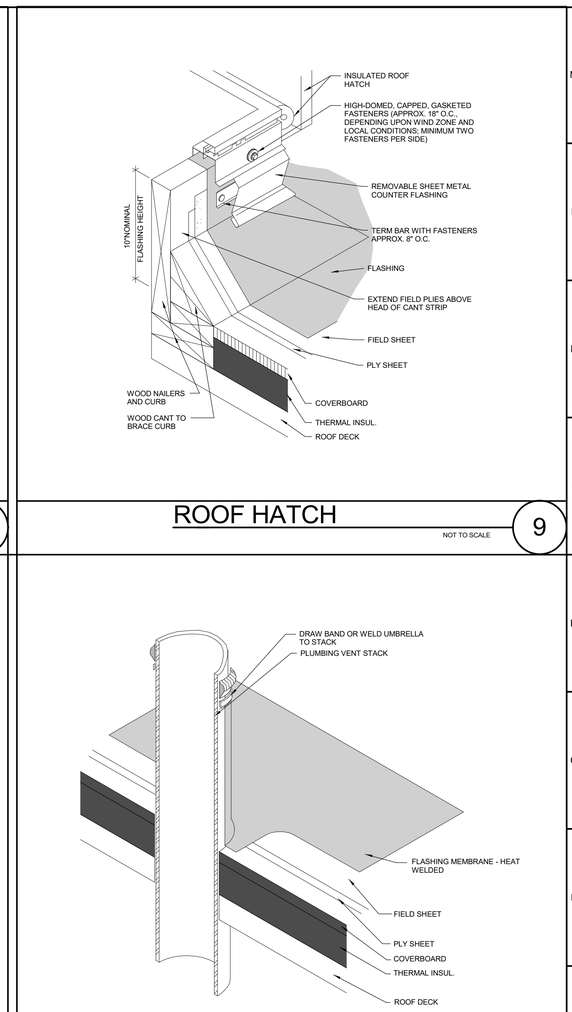
2



ROOF HATCH

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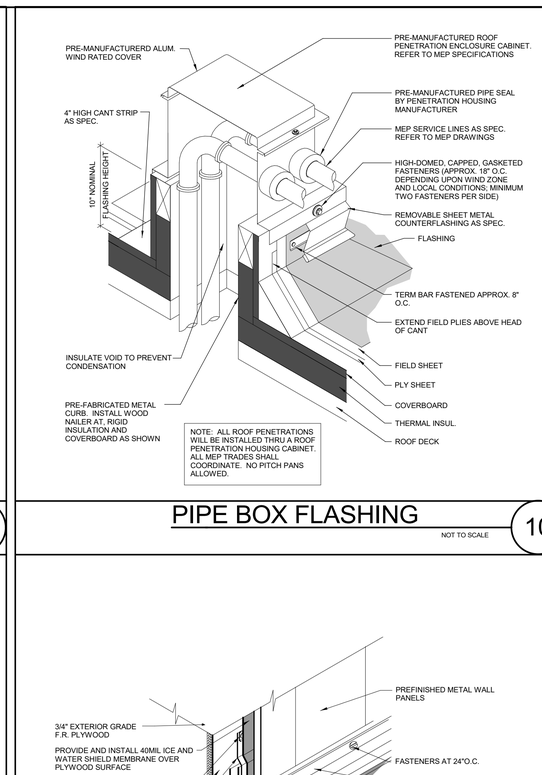
9



RTU PIPE TIE IN

NOT TO SCALE

11

PIPE BOX FLASHING

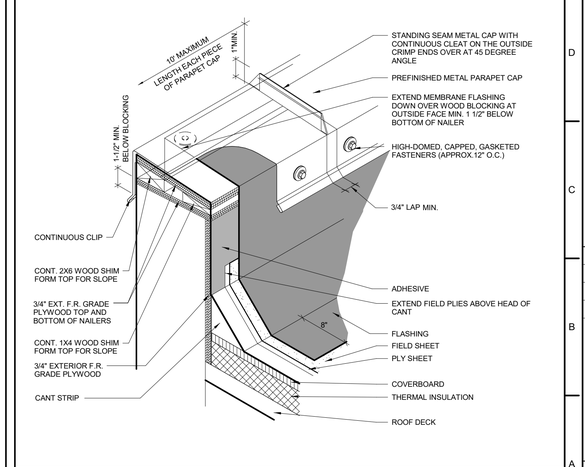
NOT TO SCALE

10

VENT STACK

NOT TO SCALE

5



LOW PARAPET

NOT TO SCALE

1

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NO.	DATE	DESCRIPTION
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HIDALGO COUNTY PRECINCT No.4
NEW JUSTICE CENTER

HIDALGO COUNTY, TEXAS

1212 SOUTH 25TH AVENUE, EDINBURG, TEXAS 78542

PROJECT NO: 2018.19
DATE: 2/5/2021 11:31:36 AM
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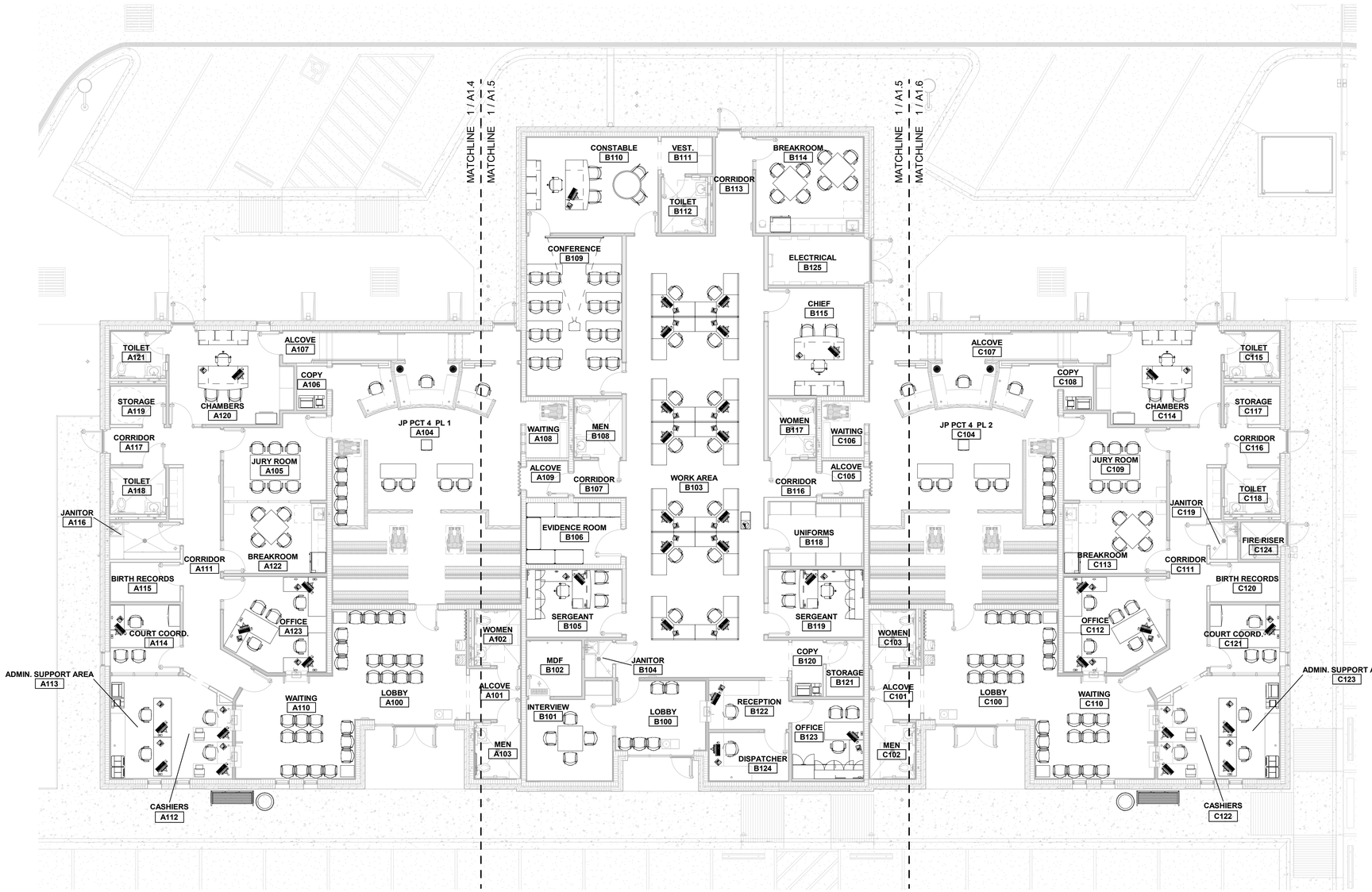
ROOF DETAILS

A1.9



OVERALL FURNITURE PLAN - JUSTICE CENTER (N.I.C. FOR REFERENCE ONLY)

1/8" = 1'-0"

1

N

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NEW JUSTICE CENTER

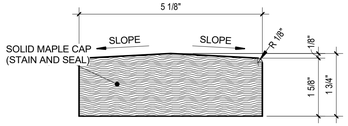
HIDALGO COUNTY, TEXAS

1212 SOUTH 25TH AVENUE, EDINBURG, TEXAS 78542

PROJECT NO: 2018.19
DATE: 2/5/2021 11:31:43 AM
STARTING DATE:
CK BY:Checker DWN BY:Author

OVERALL FURNITURE PLAN - JUSTICE CENTER (N.I.C. FOR REFERENCE ONLY)

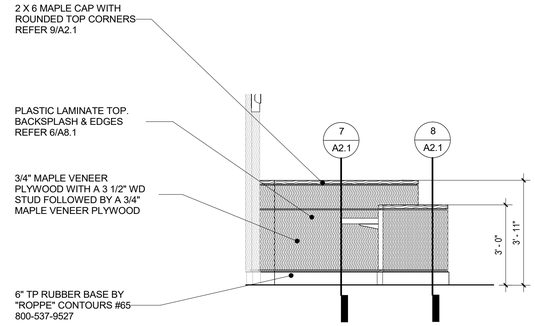
A1.10



WOOD CAP DETAIL

6" = 1'-0"

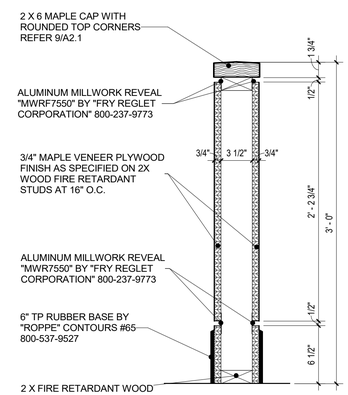
9



BENCH - EAST INTERIOR ELEVATION

3/8" = 1'-0"

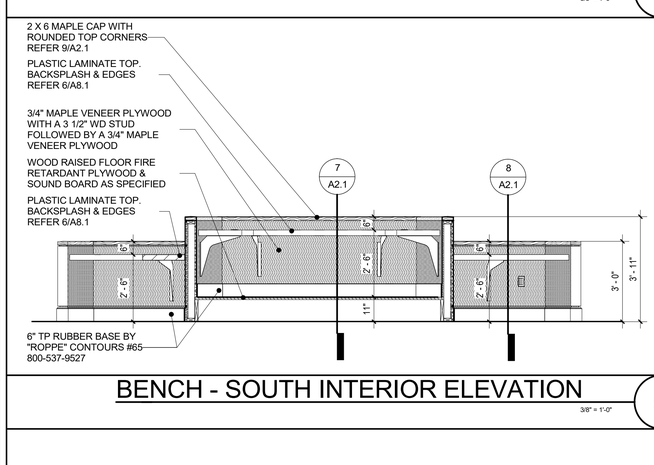
6



TYP. PARTITION SECTION

1 1/2" = 1'-0"

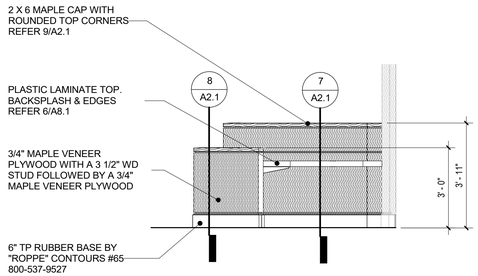
8



BENCH - SOUTH INTERIOR ELEVATION

3/8" = 1'-0"

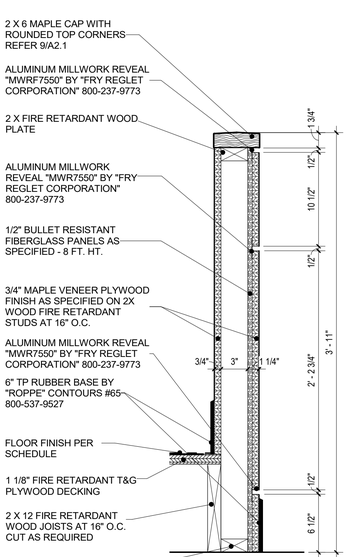
5



BENCH - WEST INTERIOR ELEVATION

3/8" = 1'-0"

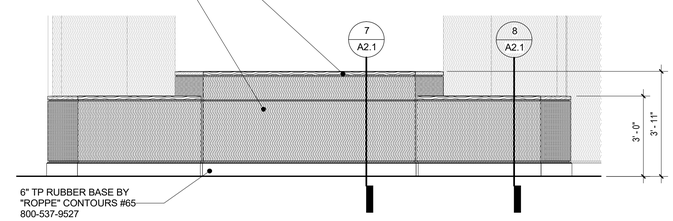
4



BENCH PARTITION SECTION

1 1/2" = 1'-0"

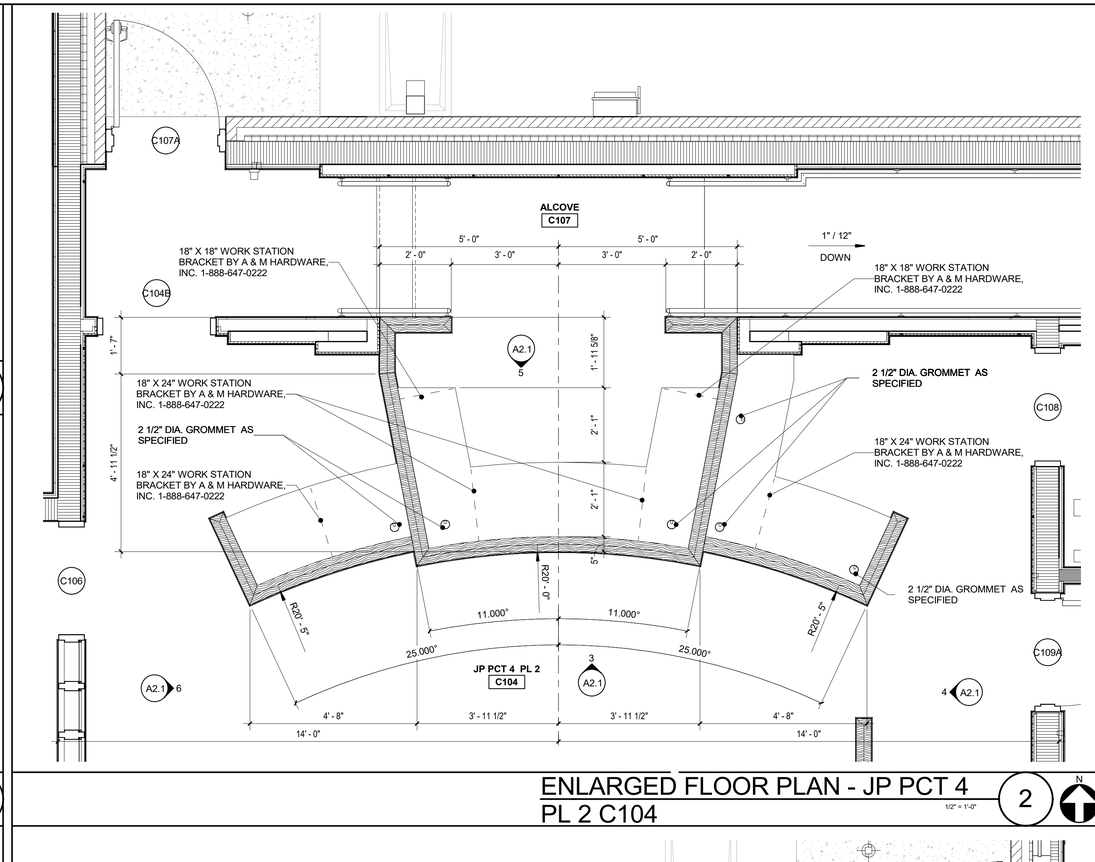
7



BENCH - NORTH INTERIOR ELEVATION

3/8" = 1'-0"

3

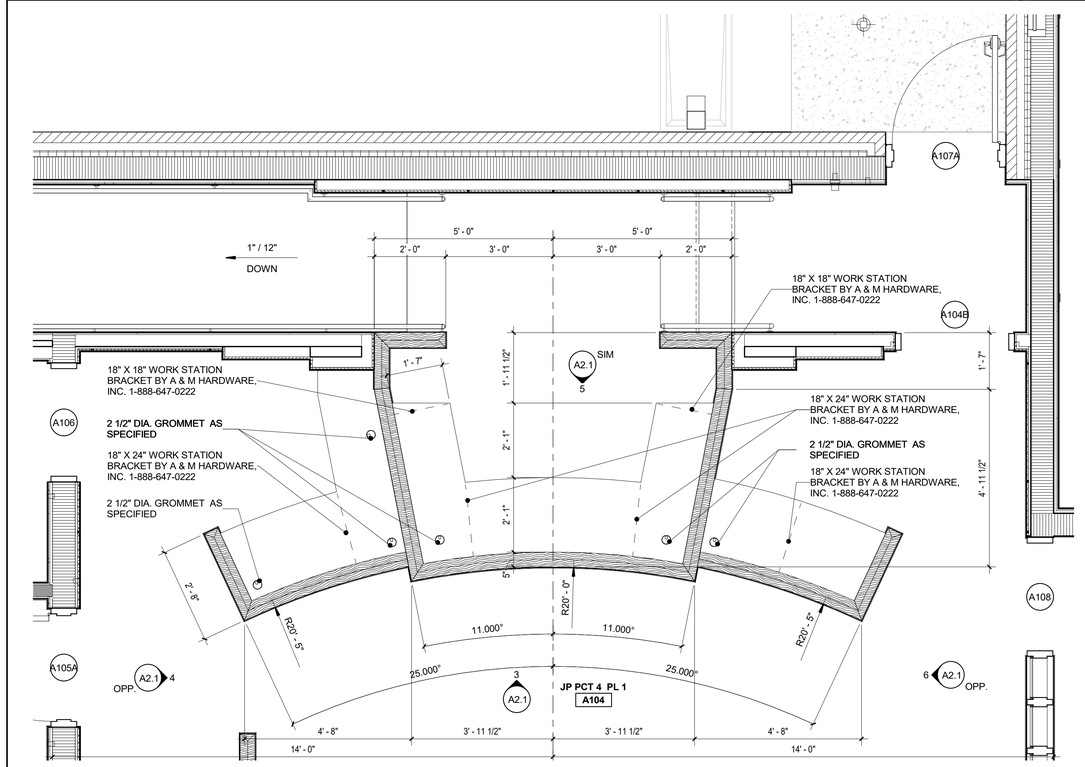


ENLARGED FLOOR PLAN - JP PCT 4 PL 2 C104

1/2" = 1'-0"

2

N



ENLARGED FLOOR PLAN - JP PCT 4 PL 1 A104

1/2" = 1'-0"

1

N

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MICHAEL E. ALLEN
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STATE OF TEXAS

02.05.2021

NO.	DATE	REVISIONS DESCRIPTION

HIDALGO COUNTY PRECINCT No.4
NEW JUSTICE CENTER
HIDALGO COUNTY, TEXAS
1212 SOUTH 25TH AVENUE, EDINBURG, TEXAS 78542

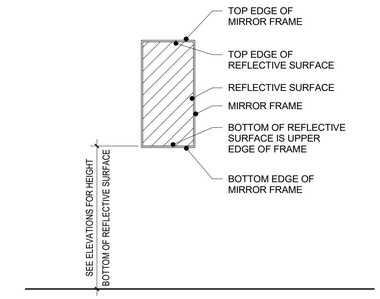
PROJECT NO:	2018.19
DATE:	2/5/2021 11:31:56 AM
STARTING DATE:	
CK BY: Checker	DWN BY: Author

ENLARGED FLOOR PLAN - JP PCT 4 PL 1 A104, JP PCT 4 PL 2 C104 AND INTEROR ELEVATIONS

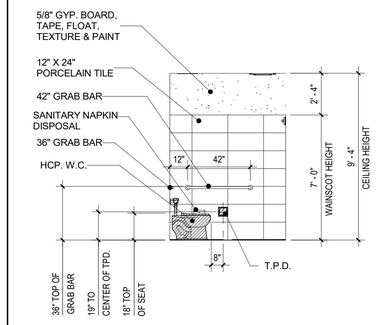
A2.1

RESTROOM GENERAL NOTES

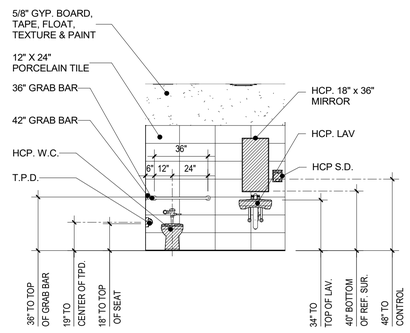
1. **COAT HOOKS IN TOILET ROOMS TO BE INSTALLED AT 48" A.F.F.**
2. **TOILET PAPER DISPENSER TO BE INSTALLED AT 19" A.F.F TO CENTERLINE OF DISPENSER AND 8" TO CENTERLINE OF DISPENSER FROM FRONT EDGE OF WATER CLOSET.**
3. **SIDE WALL 42" LONG GRAB BARS IN TOILET ROOMS TO BE INSTALLED 36" MAXIMUM A.F.F TO TOP OF GRIPPING SURFACE AND 12" MAXIMUM FROM REAR WALL.**
4. **REAR WALL 36" LONG GRAB BARS IN TOILET ROOMS TO BE INSTALLED 36" MAXIMUM A.F.F TO TOP OF GRIPPING SURFACE AND 12" FROM CENTERLINE OF WATER CLOSET TO SIDE WALL WITH 24" TO WATER CLOSET TRANSFER SIDE.**
5. **ALL EXPOSED WATER SUPPLY LINES AND DRAIN PIPES UNDER SINKS AND LAVATORIES SHALL BE INSULATED TO PROTECT AGAINST CONTACT.**
6. **INSTALL FLUSH CONTROL LOCATED TO WATER CLOSET OPEN SIDE AND BELOW REAR GRAB BAR (44" A.F.F. MAXIMUM).**
7. **MOUNT ALL MIRRORS IN TOILET ROOMS AS PER MIRROR MOUNTING HEIGHT DETAIL.**
8. **ALL LAVATORY AND SINK FAUCETS SHALL BE LEVER OPERATED OR PUSH TYPE. REFER TO MEP DRAWINGS.**



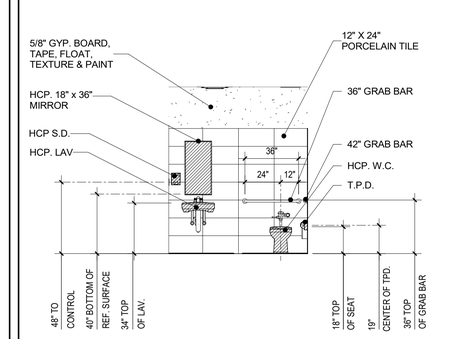
MIRROR MOUNTING HEIGHT DETAIL 1/2" = 1'-0"



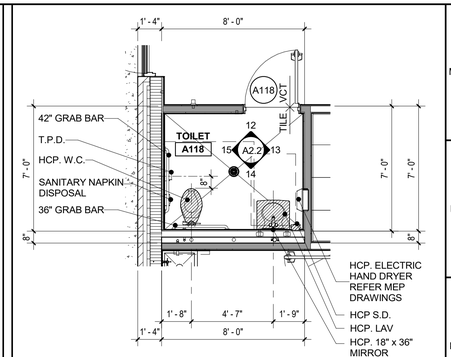
TOILET A118 - WEST INTERIOR ELEVATION 1/4" = 1'-0" 15



MEN A103 - WEST INTERIOR ELEVATION 1/4" = 1'-0" 11

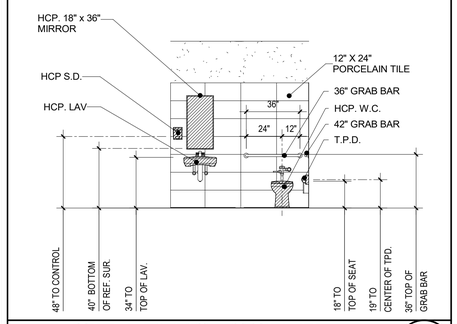


WOMEN A102 - WEST INTERIOR ELEVATION 1/4" = 1'-0" 7

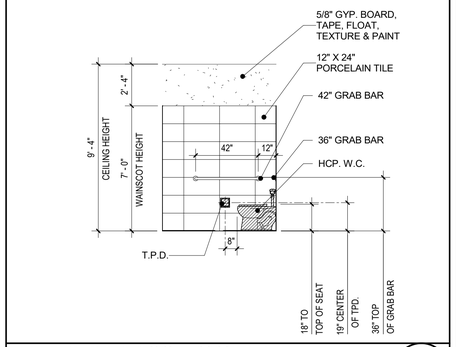


ENLARGED TOILET A118 1/4" = 1'-0" 2

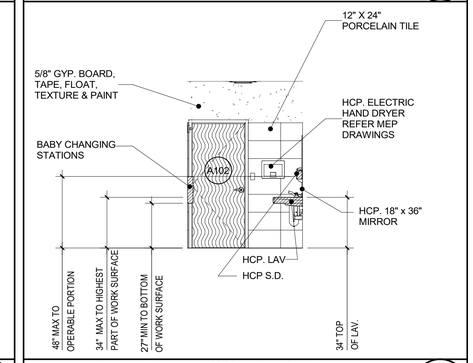
MIRROR MOUNTING HEIGHT DETAIL 1/2" = 1'-0"



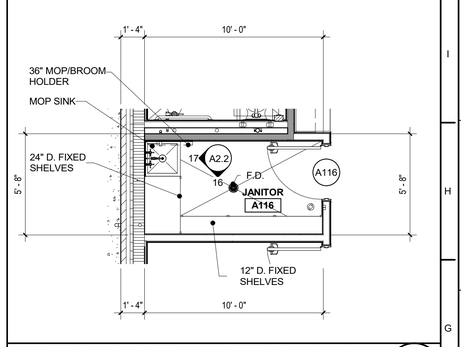
TOILET A118 - SOUTH INTERIOR ELEVATION 1/4" = 1'-0" 14



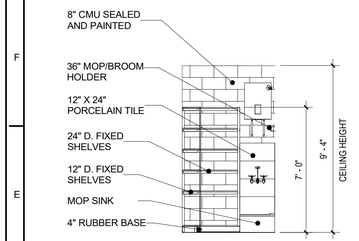
MEN A103 - SOUTH INTERIOR ELEVATION 1/4" = 1'-0" 10



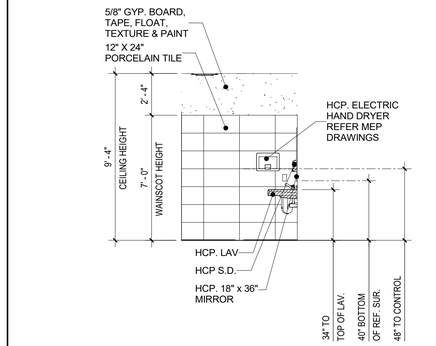
WOMEN A102 - SOUTH INTERIOR ELEVATION 1/4" = 1'-0" 6



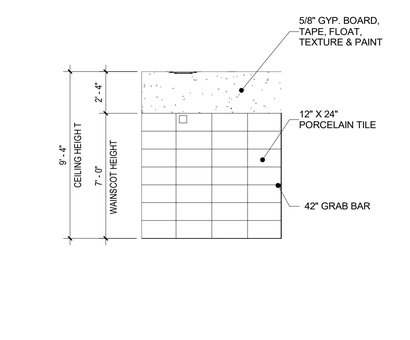
ENLARGED JANITOR A116 1/4" = 1'-0" 3



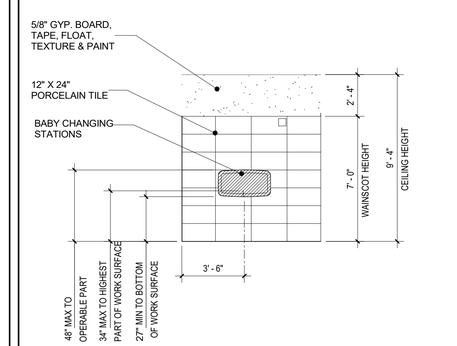
JANITOR A116 - WEST INT. ELEV. 1/4" = 1'-0" 17



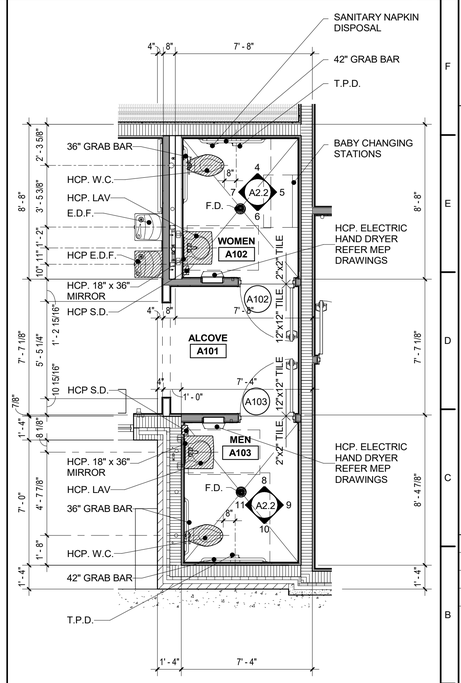
TOILET A118 - EAST INTERIOR ELEVATION 1/4" = 1'-0" 13



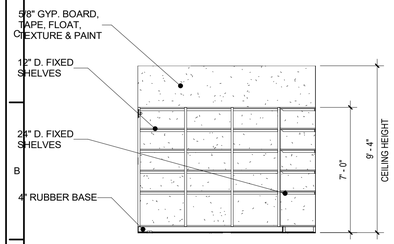
MEN A103 - EAST INTERIOR ELEVATION 1/4" = 1'-0" 9



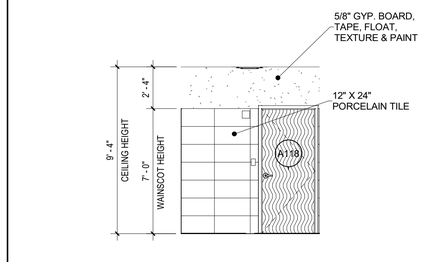
WOMEN A102 - EAST INTERIOR ELEVATION 1/4" = 1'-0" 5



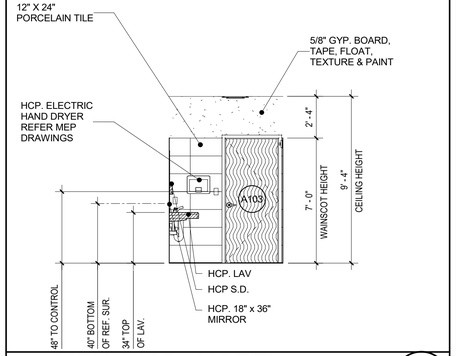
ENLARGED WOMEN A102/ MEN A103 1/4" = 1'-0" 1



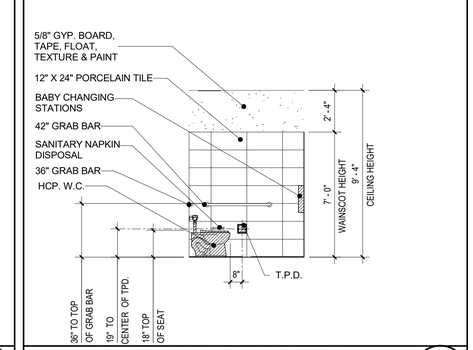
JANITOR A116 - SOUTH INT. ELEV. 1/4" = 1'-0" 16



TOILET A118 - NORTH INTERIOR ELEVATION 1/4" = 1'-0" 12



MEN A103 - NORTH INTERIOR ELEVATION 1/4" = 1'-0" 8



WOMEN A102 - NORTH INTERIOR ELEVATION 1/4" = 1'-0" 4

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CONSULTANTS:

NO.	DATE	REVISIONS	DESCRIPTION

HIDALGO COUNTY PRECINCT No.4
NEW JUSTICE CENTER

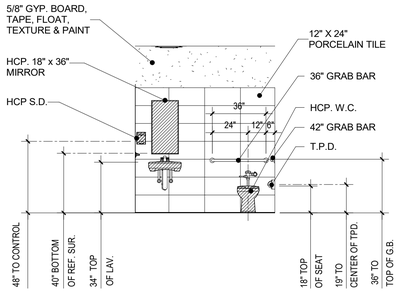
HIDALGO COUNTY, TEXAS
EDINBURG, TEXAS 78542

1212 SOUTH 25TH AVENUE,

PROJECT NO: 2018.19
DATE: 2/5/2021 11:32:04 AM
STARTING DATE:
CK B'Checker DWN B'Author

ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS

A2.2



TOILET B112 - EAST INTERIOR ELEVATION

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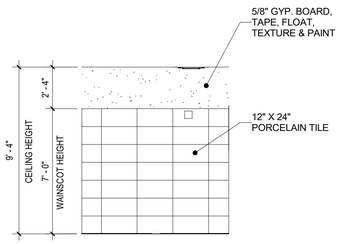
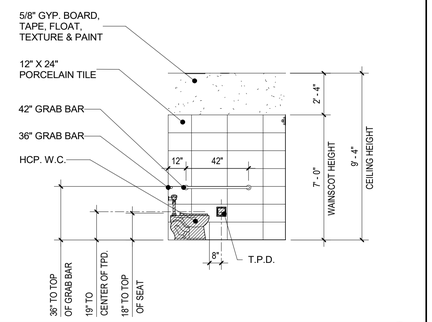


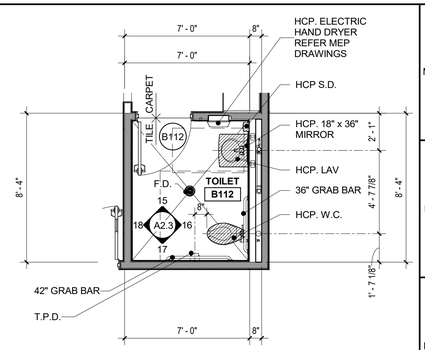
MEN B108 - EAST INTERIOR ELEVATION

1/4" = 1'-0" — 12



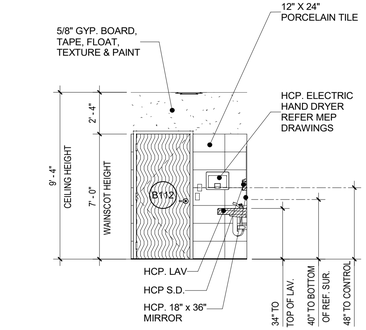
TOILET A121 - WEST INTERIOR ELEVATION

1/4" = 1'-0" — 8



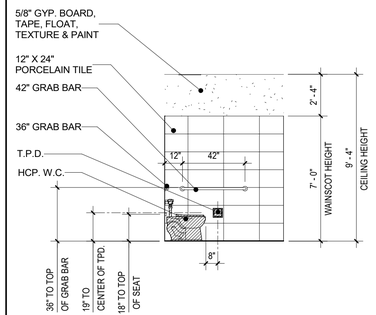
ENLARGED TOILET B112

1/4" = 1'-0" — 4



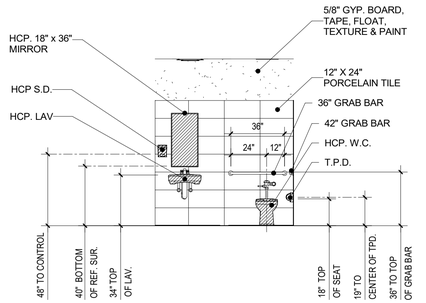
TOILET B112 - NORTH INTERIOR ELEVATION

1/4" = 1'-0" — 15



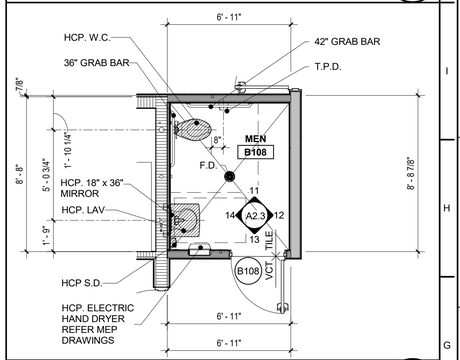
MEN B108 - NORTH INTERIOR ELEVATION

1/4" = 1'-0" — 11



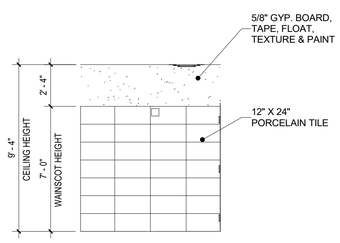
TOILET A121 - SOUTH INTERIOR ELEVATION

1/4" = 1'-0" — 7



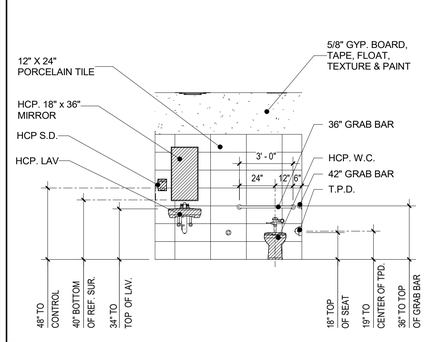
ENLARGED MEN B108

1/4" = 1'-0" — 3



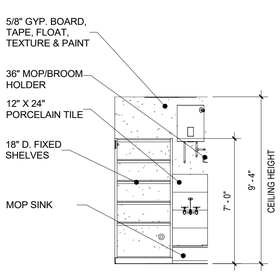
TOILET B112 - WEST INTERIOR ELEVATION

1/4" = 1'-0" — 18



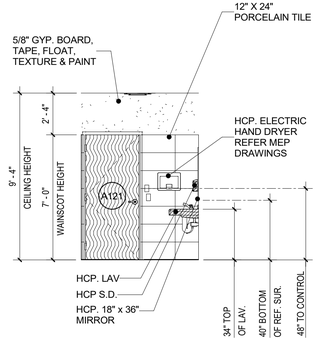
MEN B108 - WEST INTERIOR ELEVATION

1/4" = 1'-0" — 14



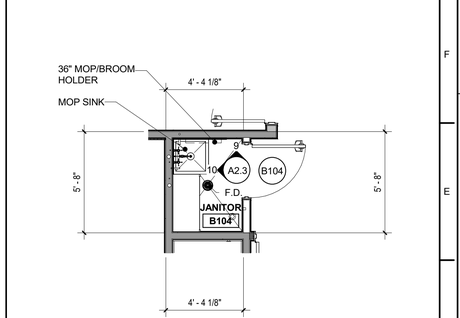
JANITOR B104 - WEST INT. ELEV.

1/4" = 1'-0" — 10



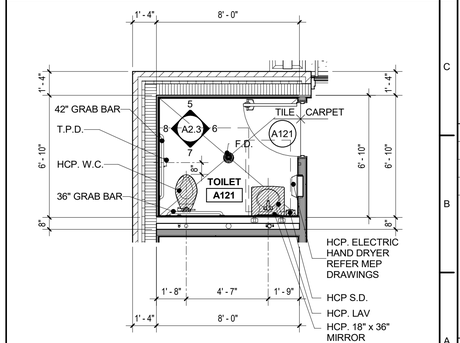
TOILET A121 - EAST INTERIOR ELEVATION

1/4" = 1'-0" — 6



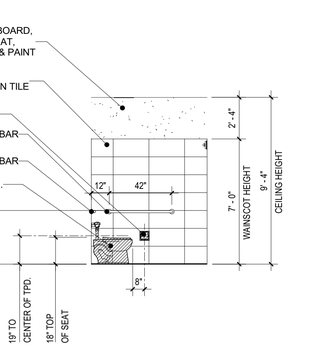
ENLARGED JANITOR B104

1/4" = 1'-0" — 2



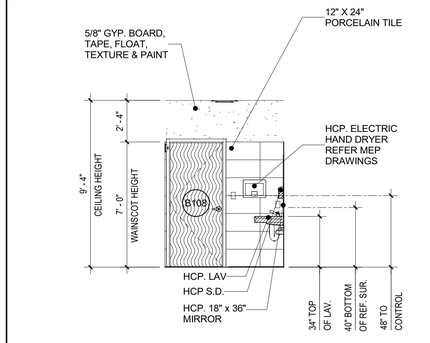
ENLARGED TOILET A121

1/4" = 1'-0" — 1



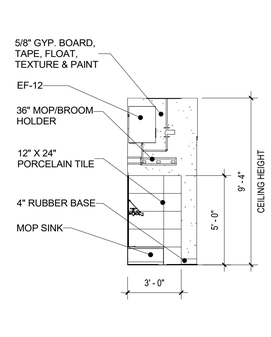
TOILET B112 - SOUTH INTERIOR ELEVATION

1/4" = 1'-0" — 17



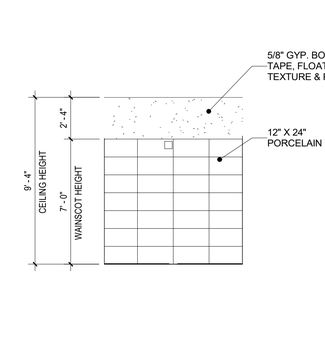
MEN B108 - SOUTH INTERIOR ELEVATION

1/4" = 1'-0" — 13



JANITOR B104 - NORTH INT. ELEV.

1/4" = 1'-0" — 9



TOILET A121 - NORTH INTERIOR ELEVATION

1/4" = 1'-0" — 5

ENLARGED TOILET A121

1/4" = 1'-0" — 1

M L K I H G F E D C B A

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

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NO.	DATE	DESCRIPTION REVISIONS

HIDALGO COUNTY PRECINCT No.4
NEW JUSTICE CENTER

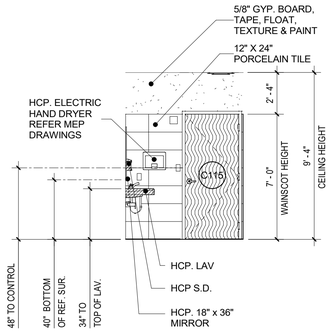
HIDALGO COUNTY, TEXAS

1212 SOUTH 257TH AVENUE, EDINBURG, TEXAS 78542

PROJECT NO:	2018.19
DATE:	2/5/2021 11:32:12 AM
STARTING DATE:	
CK BY:Checker	DWN BY:Author

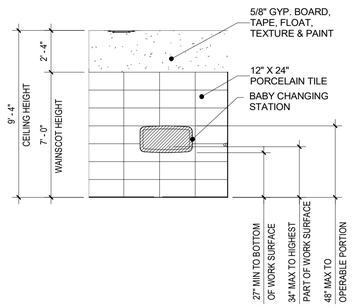
ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS

A2.3



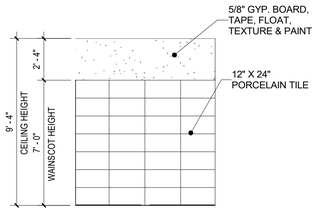
TOILET C115 - WEST INTERIOR ELEVATION

1/4" = 1'-0" — 19



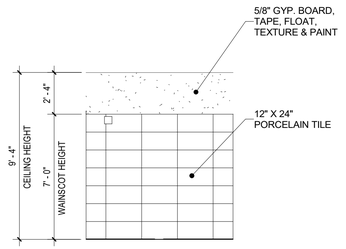
WOMEN C103 - WEST INTERIOR ELEVATION

1/4" = 1'-0" — 15



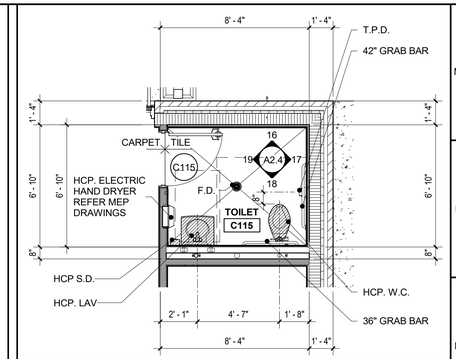
MEN C102 - WEST INTERIOR ELEVATION

1/4" = 1'-0" — 11



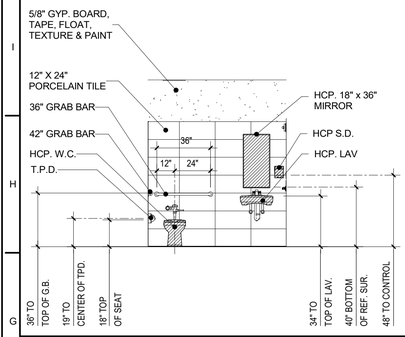
WOMEN B117 - WEST INTERIOR ELEVATION

1/4" = 1'-0" — 7



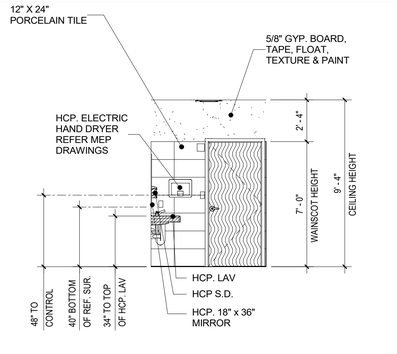
ENLARGED TOILET C115

1/4" = 1'-0" — 3



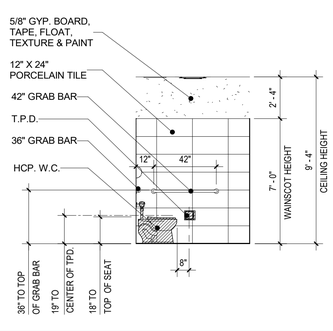
TOILET C115 - SOUTH INTERIOR ELEVATION

1/4" = 1'-0" — 18



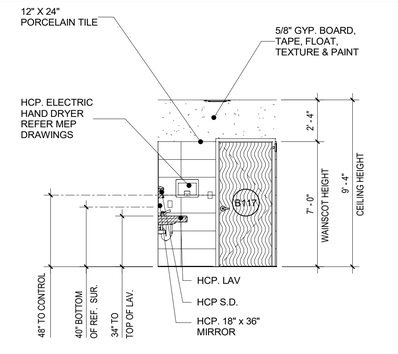
WOMEN C103 - SOUTH INTERIOR ELEVATION

1/4" = 1'-0" — 14



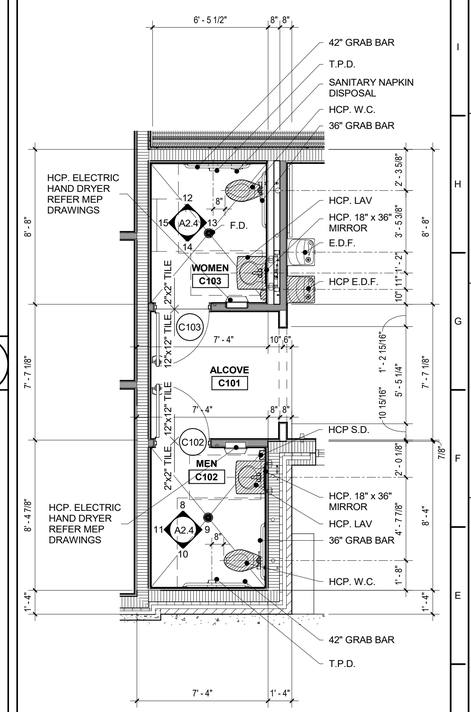
MEN C102 -SOUTH INTERIOR ELVATION

1/4" = 1'-0" — 10



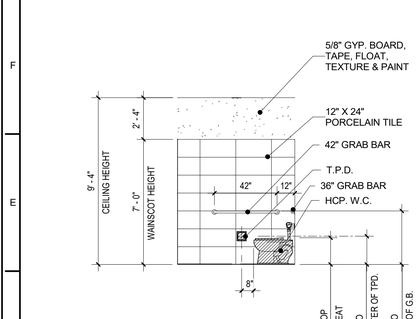
WOMEN B117 - SOUTH INTERIOR ELEVATION

1/4" = 1'-0" — 6



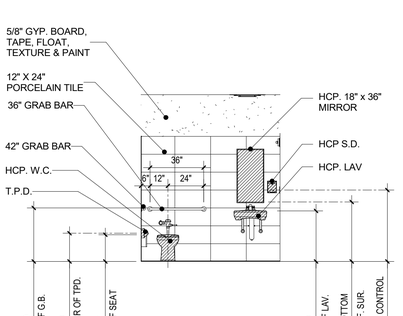
ENLARGED MEN C102/ WOMEN C103

1/4" = 1'-0" — 2



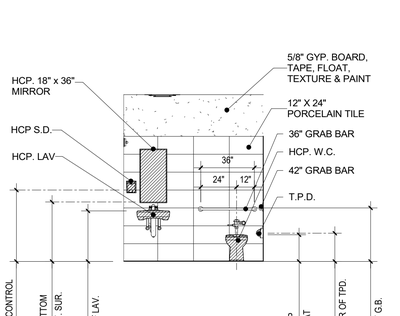
TOILET C115 - EAST INTERIOR ELEVATION

1/4" = 1'-0" — 17



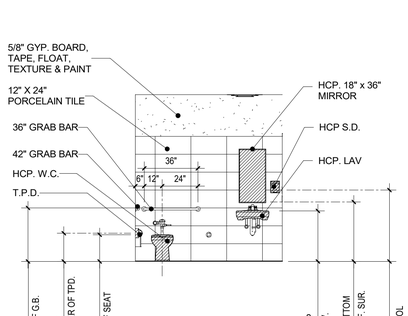
WOMEN C103 - EAST INTERIOR ELEVATION

1/4" = 1'-0" — 13



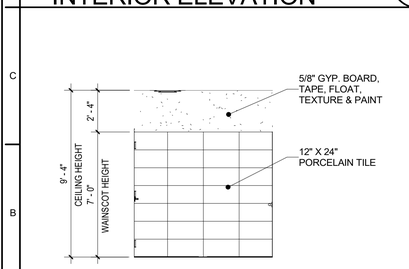
MEN C102 - EAST INTERIOR ELEVATION

1/4" = 1'-0" — 9



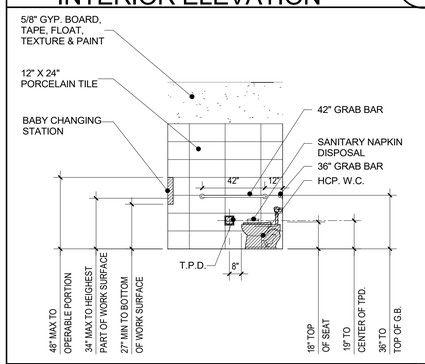
WOMEN B117 - EAST INTERIOR ELEVATION

1/4" = 1'-0" — 5



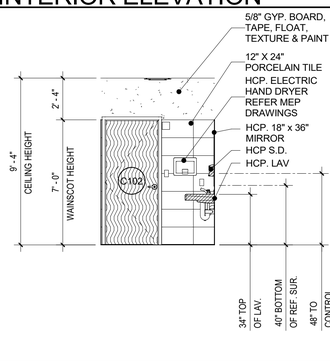
TOILET C115 - NORTH INTERIOR ELEVATION

1/4" = 1'-0" — 16



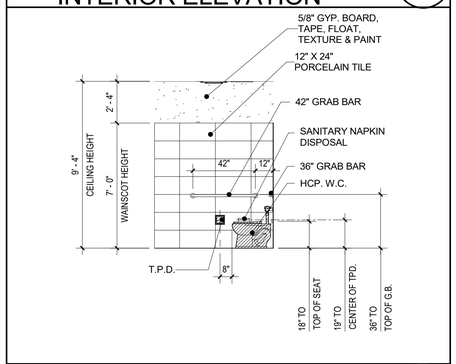
WOMEN C103 - NORTH INTERIOR ELEVATION

1/4" = 1'-0" — 12



MEN C102 - NORTH INTERIOR ELEVATION

1/4" = 1'-0" — 8



WOMEN B117 - NORTH INTERIOR ELEVATION

1/4" = 1'-0" — 4

ENLARGED WOMEN B117

1/4" = 1'-0" — 1

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CONSULTANTS:

NO.	DATE	DESCRIPTION
		REVISIONS

HIDALGO COUNTY PRECINCT No.4 NEW JUSTICE CENTER

HIDALGO COUNTY, TEXAS

1212 SOUTH 25TH AVENUE, EDINBURG, TEXAS 78542

PROJECT NO: 2018.19

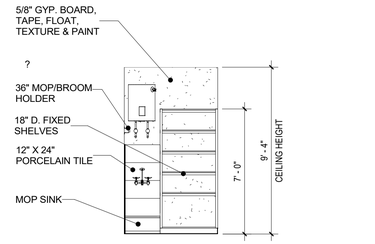
DATE: 2/5/2021 11:32:20 AM

STARTING DATE:

CK BY:Checker | DWN BY:Author

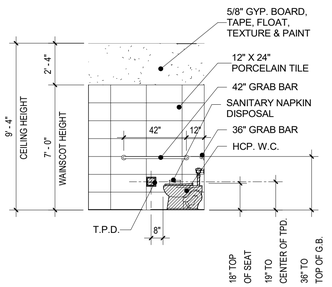
ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS

A2.4



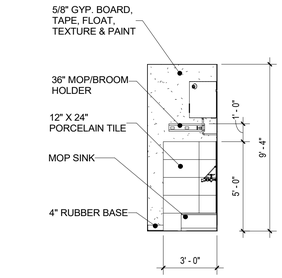
JANITOR C119 - EAST INT. ELEV.

1/4" = 1'-0" — 8



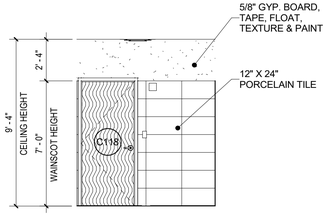
TOILET C118 - EAST INTERIOR ELEVATION

1/4" = 1'-0" — 4



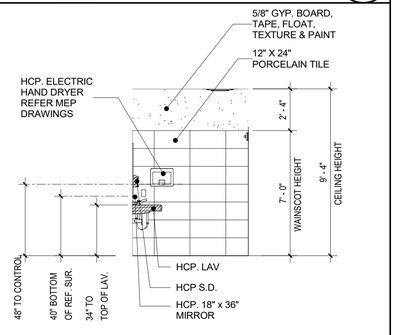
JANITOR C119 - NORTH INT. ELEV.

1/4" = 1'-0" — 7



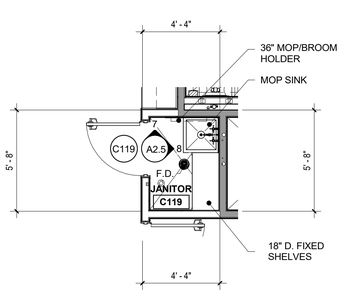
TOILET C118 - NORTH INTERIOR ELEVATION

1/4" = 1'-0" — 3



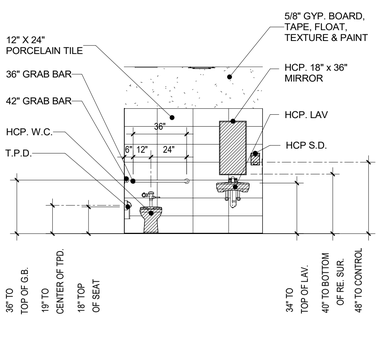
TOILET C118 - WEST INTERIOR ELEVATION

1/4" = 1'-0" — 6



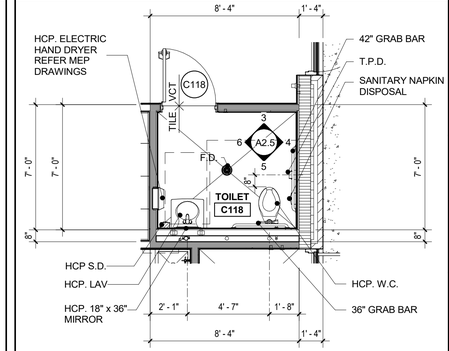
ENLARGED JANITOR C119

1/4" = 1'-0" — 2



TOILET C118 - SOUTH INTERIOR ELEVATION

1/4" = 1'-0" — 5



ENLARGED TOILET C118

1/4" = 1'-0" — 1

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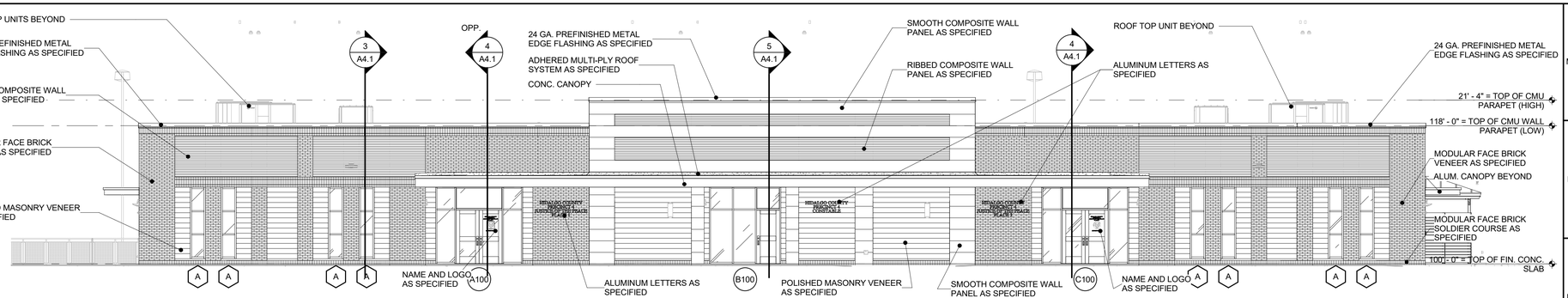
ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS

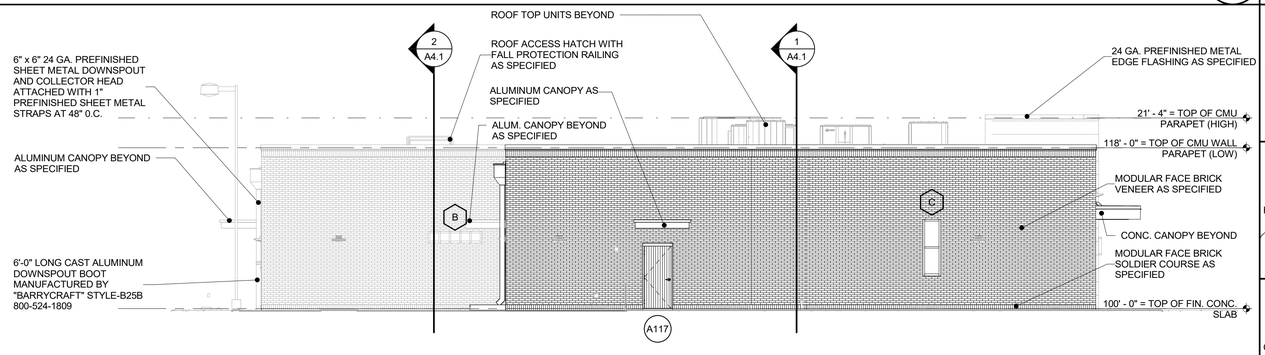
A2.5



WEST ELEVATION

1/8" = 1'-0"

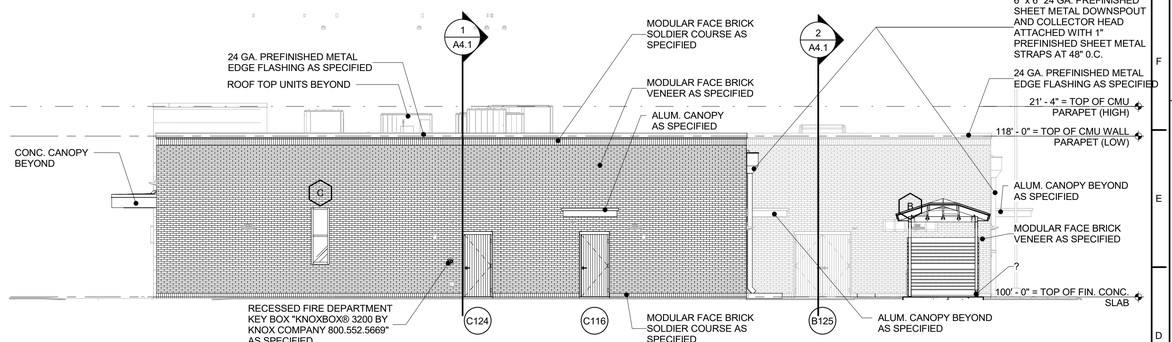
4



SOUTH ELEVATION

1/8" = 1'-0"

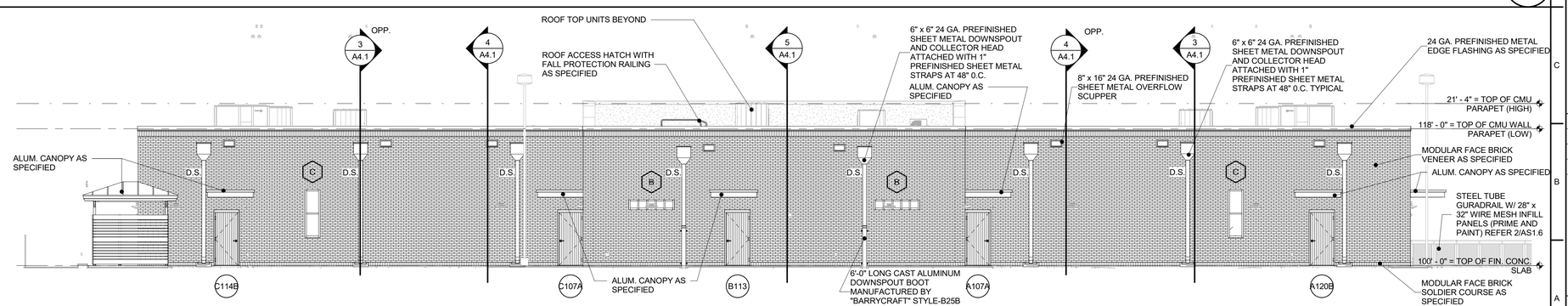
3



EAST ELEVATION

1/8" = 1'-0"

2



NORTH ELEVATION

1/8" = 1'-0"

1

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HIDALGO COUNTY PRECINCT No.4 NEW JUSTICE CENTER

HIDALGO COUNTY, TEXAS

EDINBURG, TEXAS 78542

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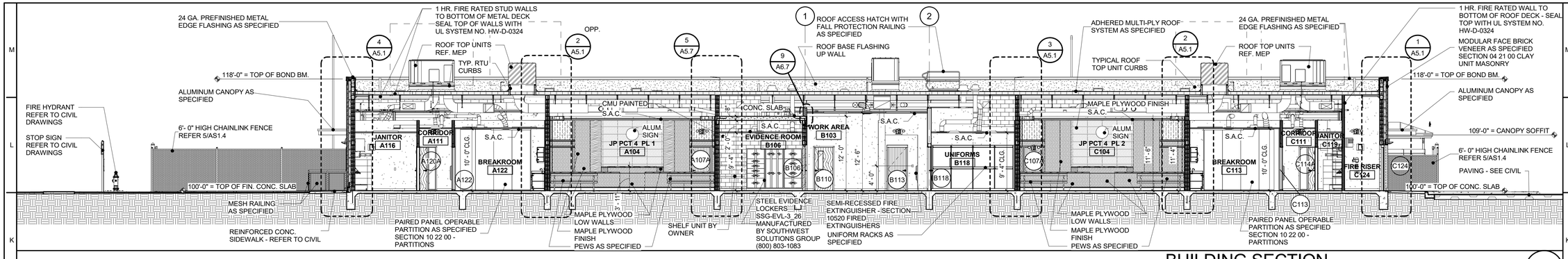
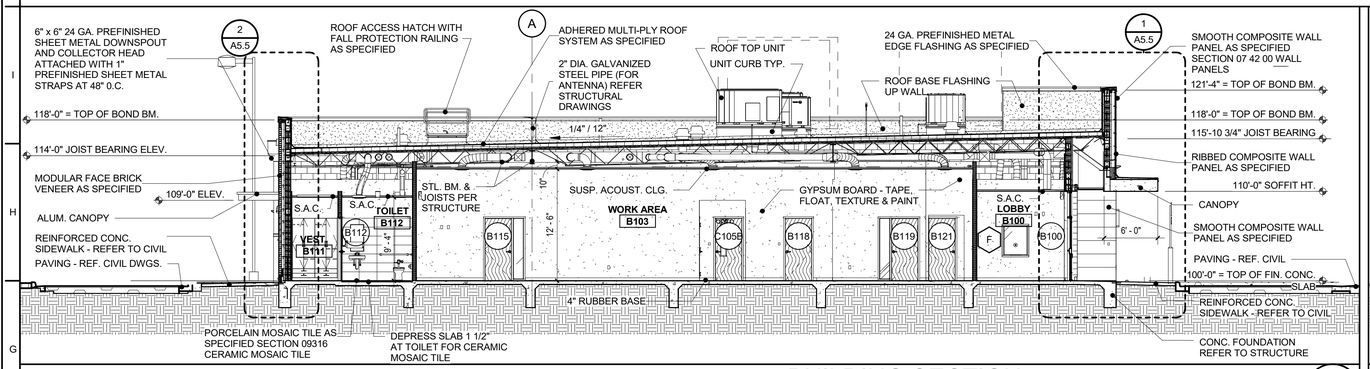
OVERALL EXTERIOR ELEVATIONS

A3.1



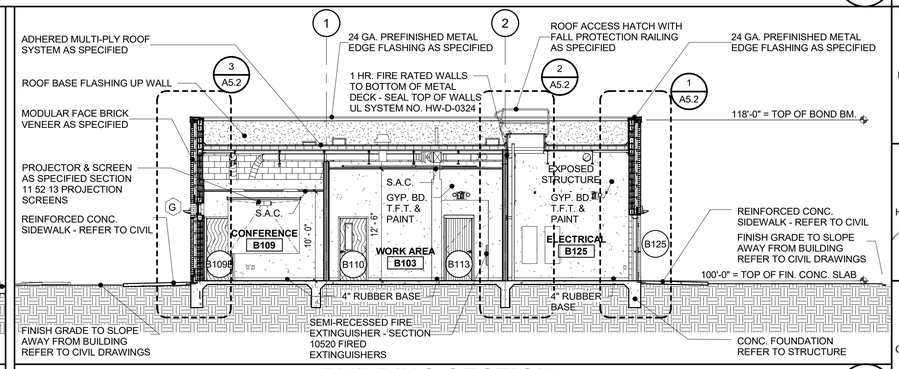
BUILDING SECTION 1

1/8" = 1'-0"



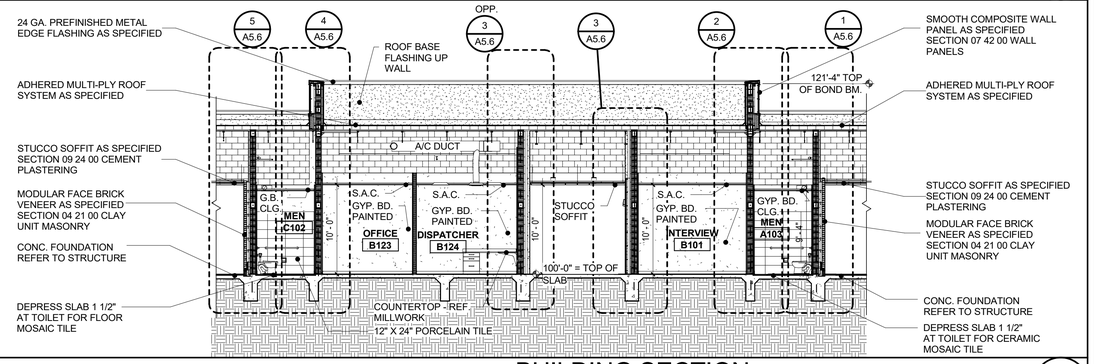
BUILDING SECTION 5

1/8" = 1'-0"



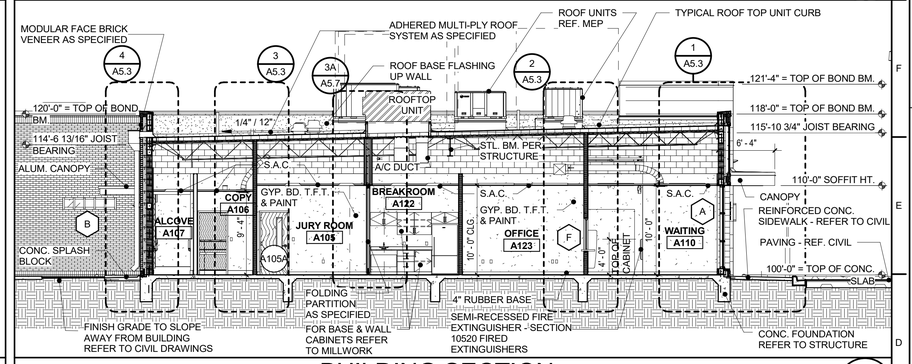
BUILDING SECTION 2

1/8" = 1'-0"



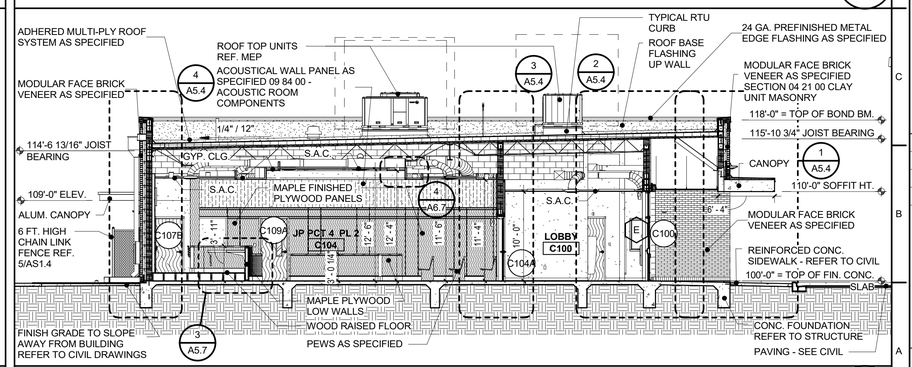
BUILDING SECTION 6

1/8" = 1'-0"



BUILDING SECTION 3

1/8" = 1'-0"



BUILDING SECTION 4

1/8" = 1'-0"

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HIDALGO COUNTY, TEXAS
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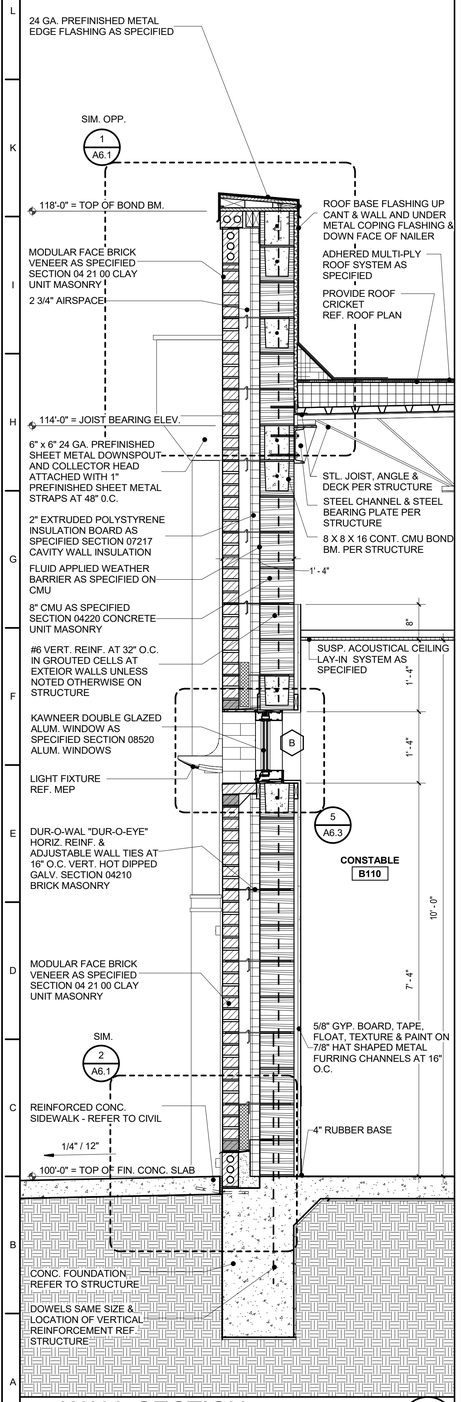
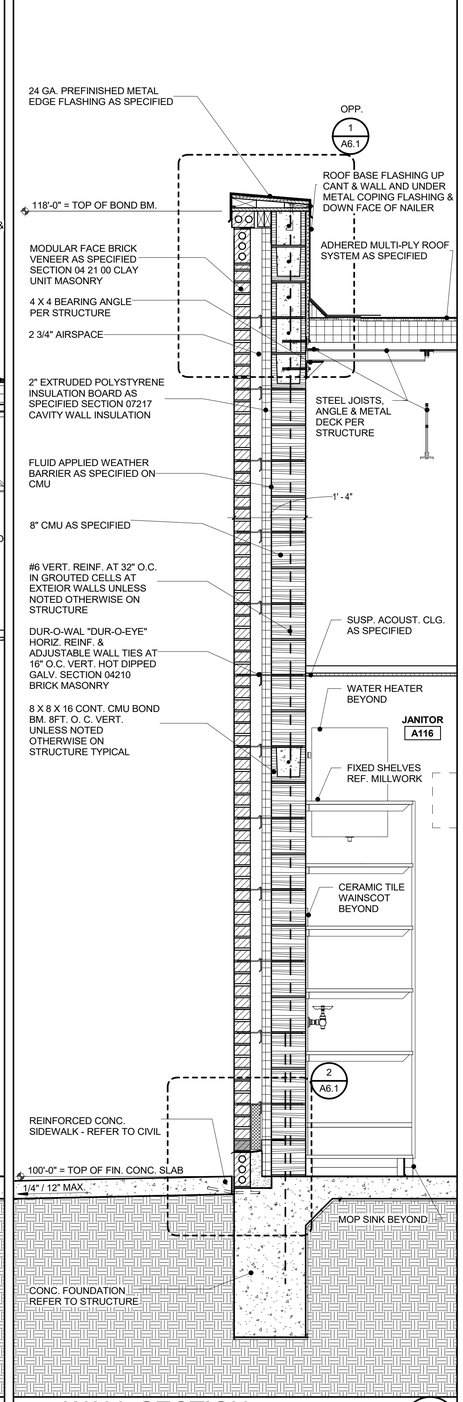
BUILDING SECTIONS

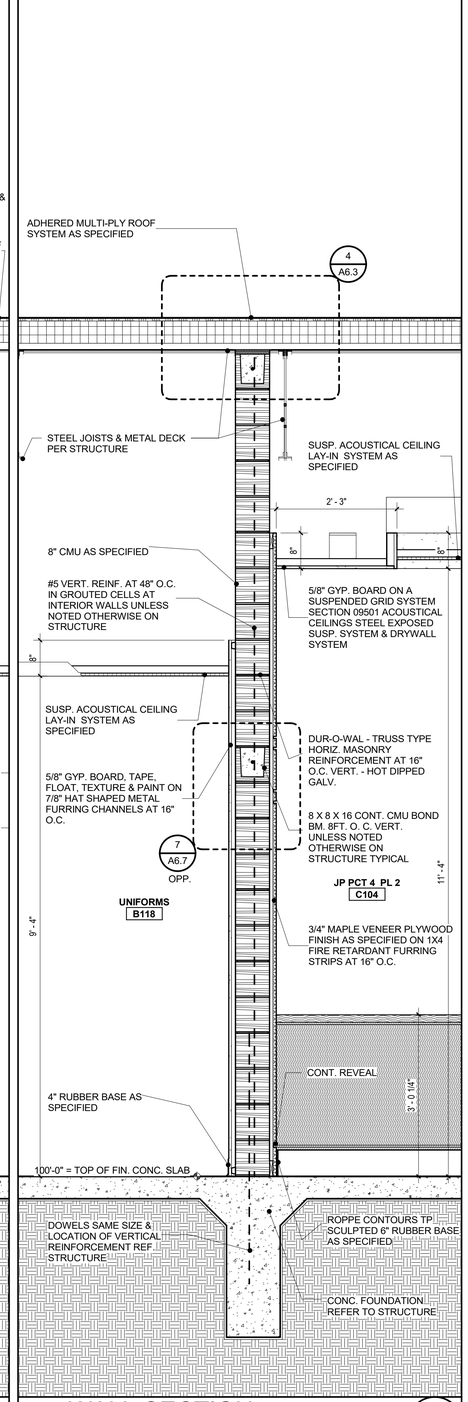
A4.1



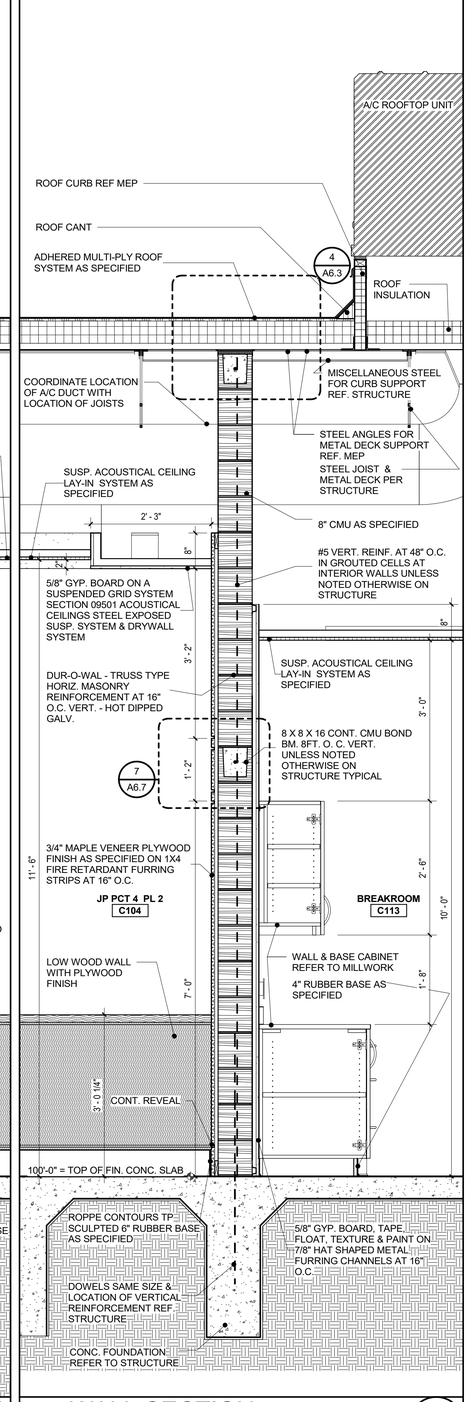
WALL SECTION 5
3/4" = 1'-0"



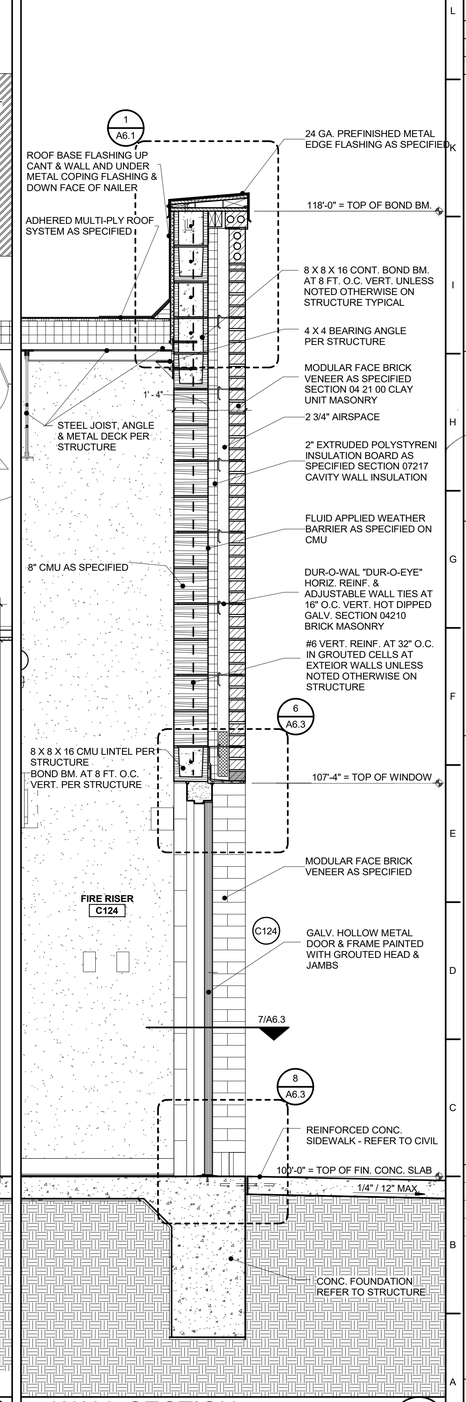
WALL SECTION 4
3/4" = 1'-0"



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



WALL SECTION 2
3/4" = 1'-0"



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

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HIDALGO COUNTY, TEXAS
EDINBURG, TEXAS 78542
1212 SOUTH 25TH AVENUE,

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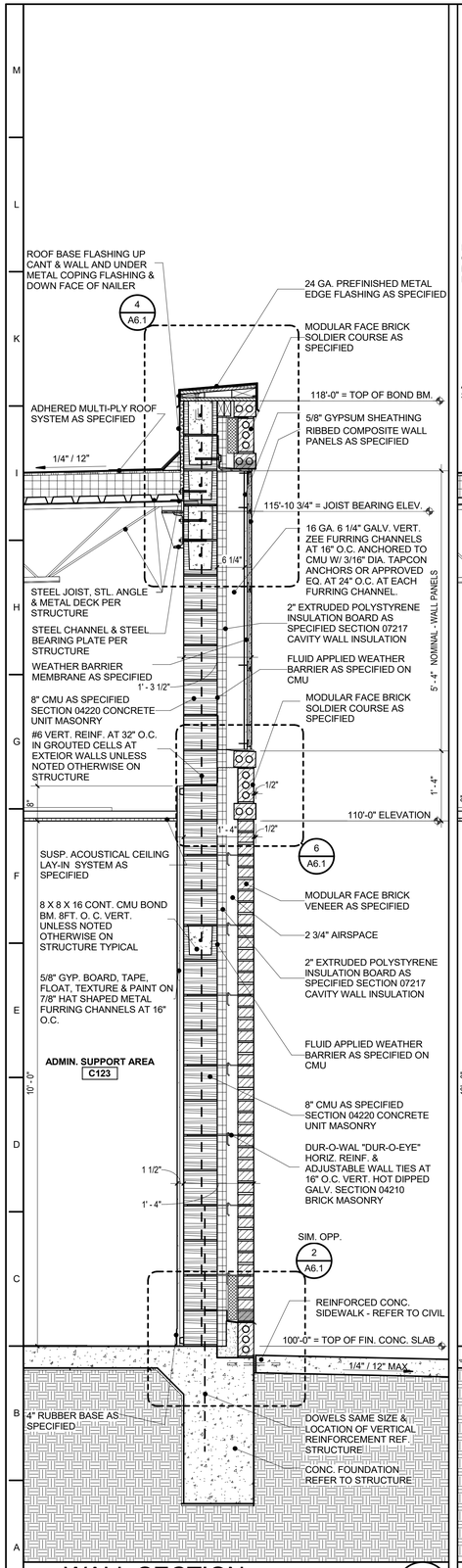
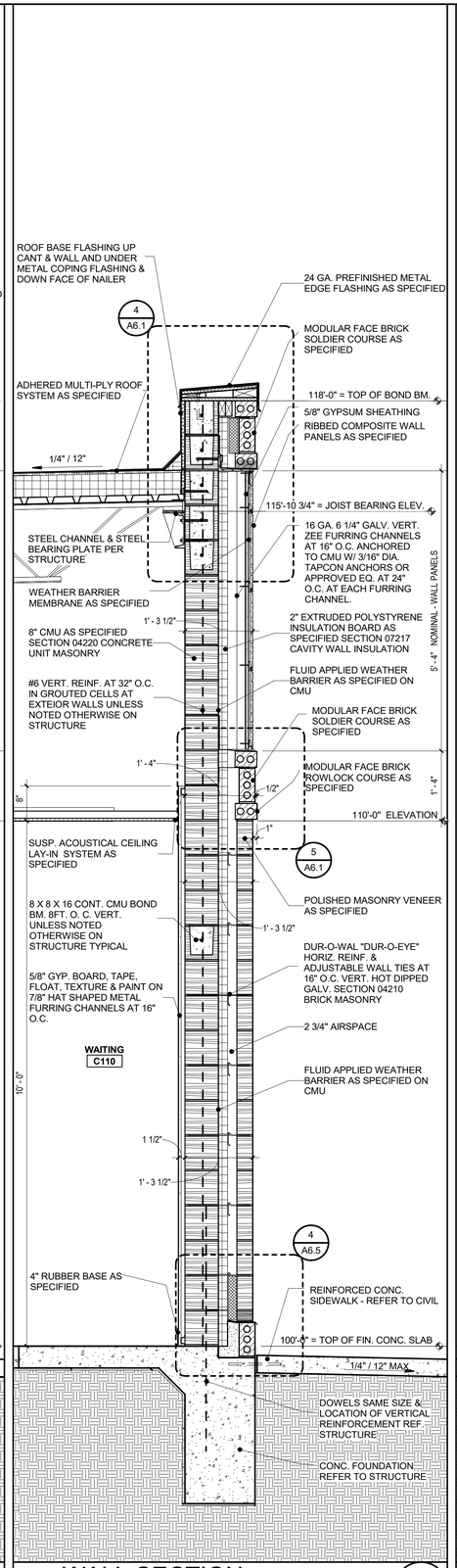
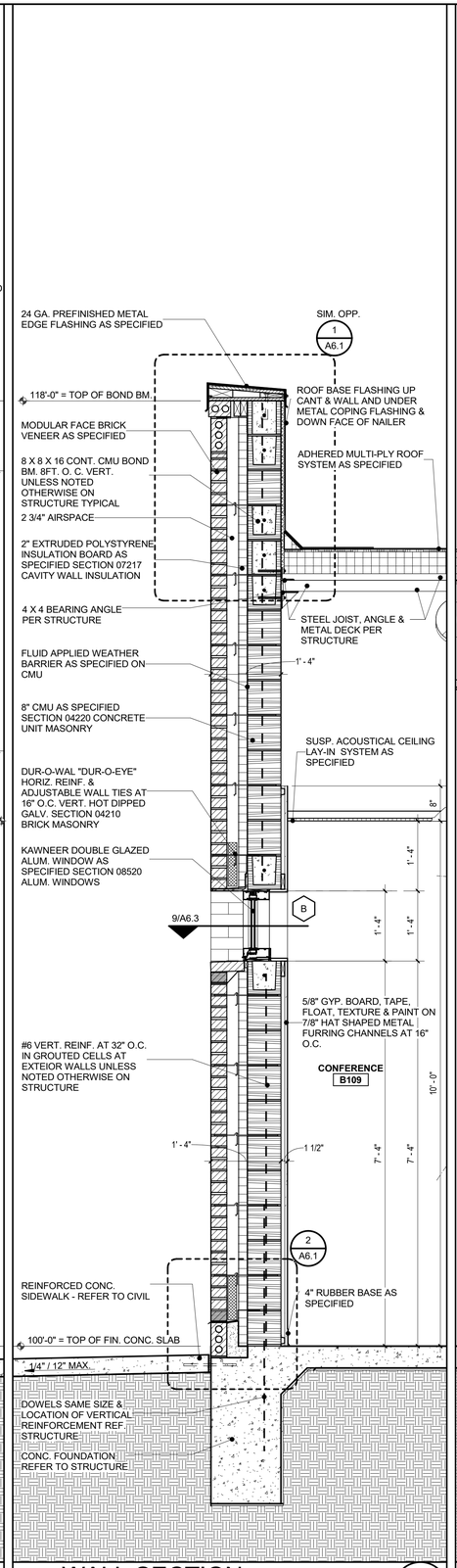
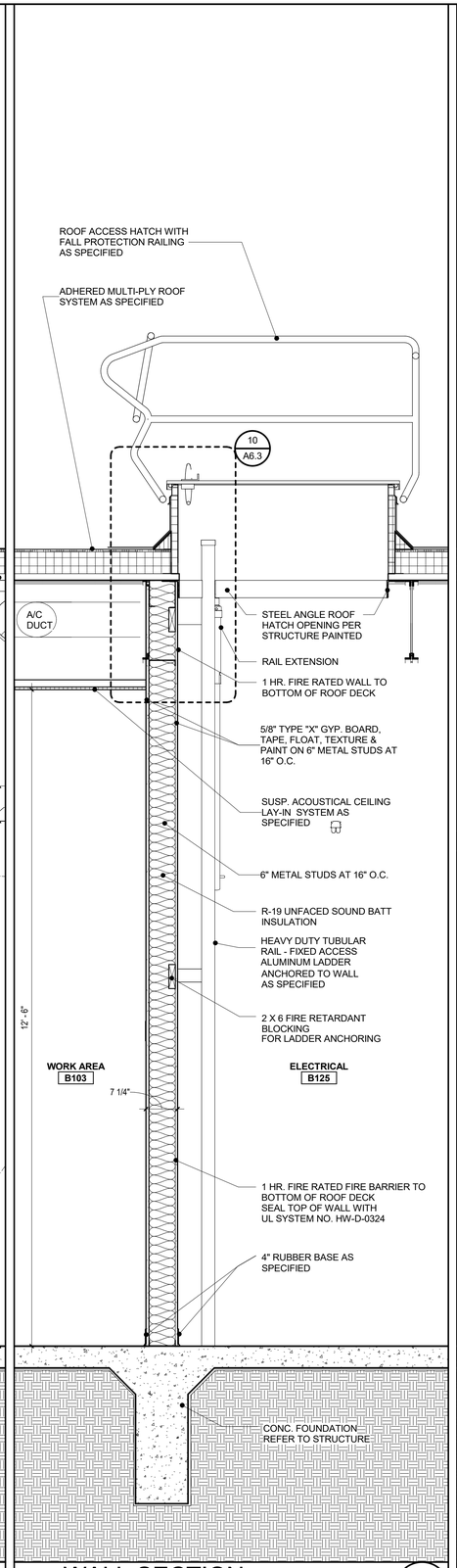
WALL SECTIONS

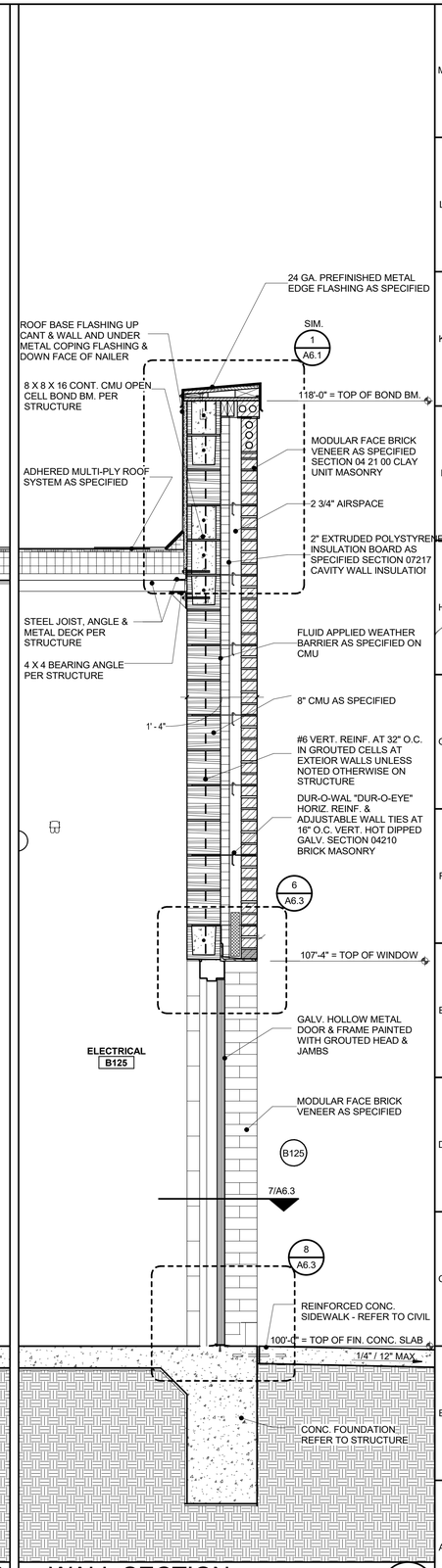
A5.1











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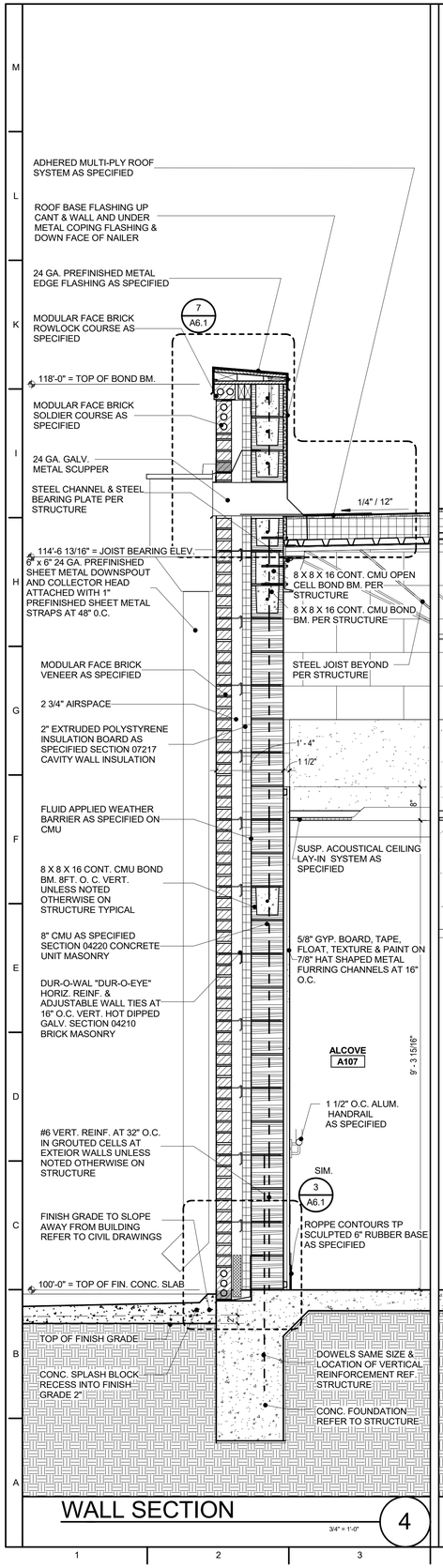
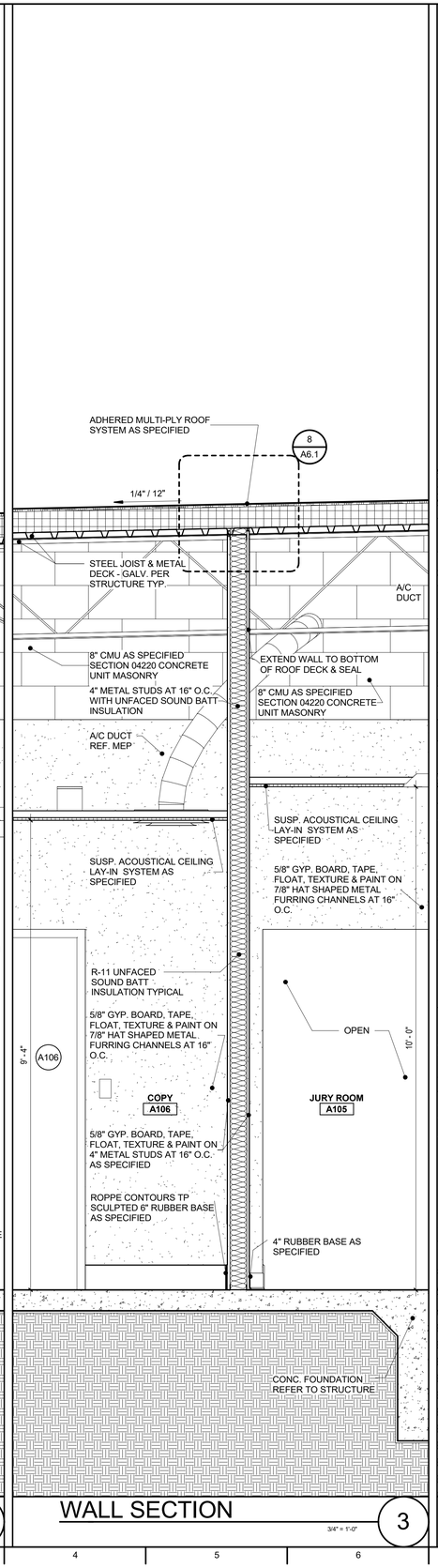
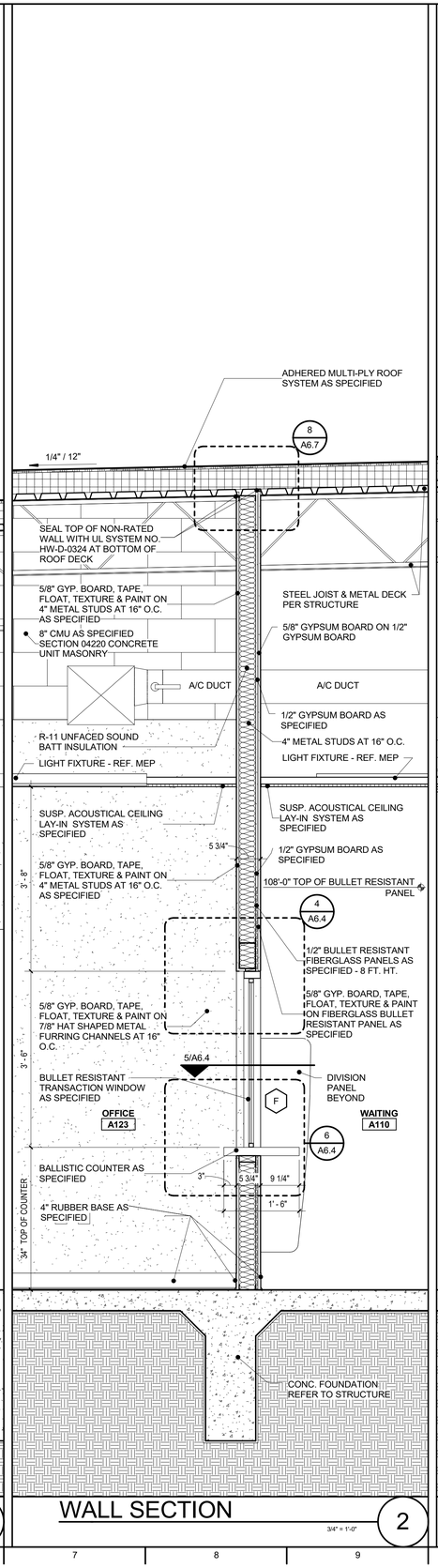
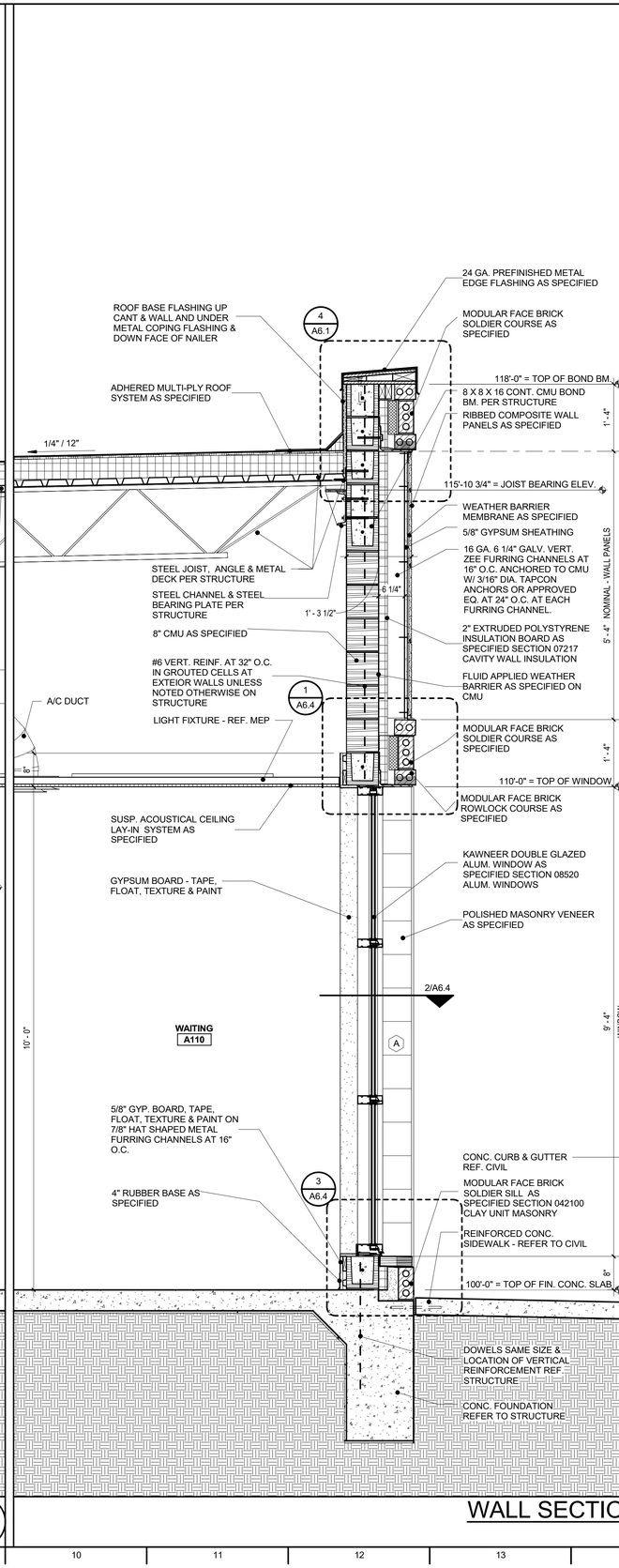
WALL SECTIONS

A5.2









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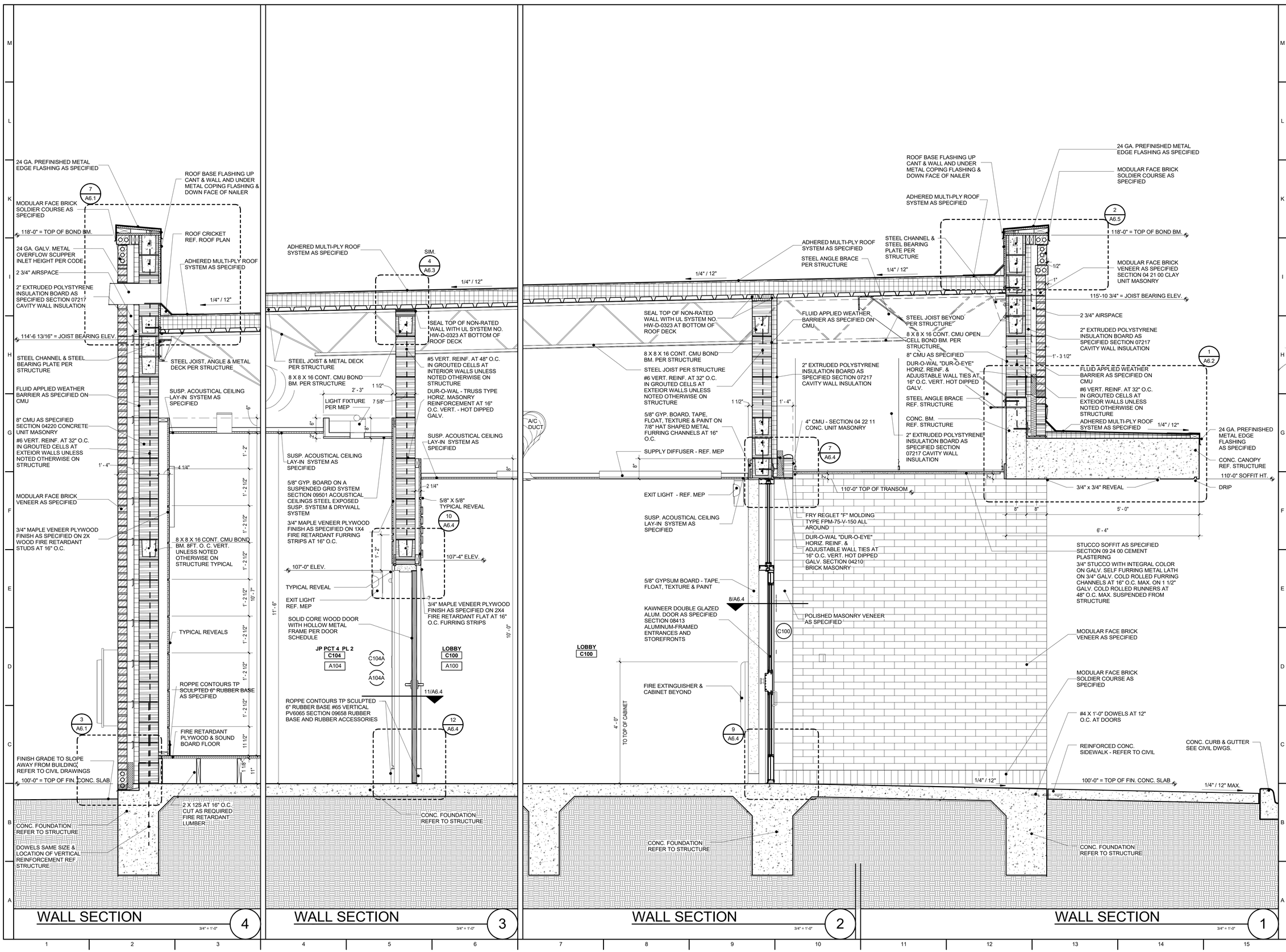
WALL SECTIONS

A5.3



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NEW JUSTICE CENTER
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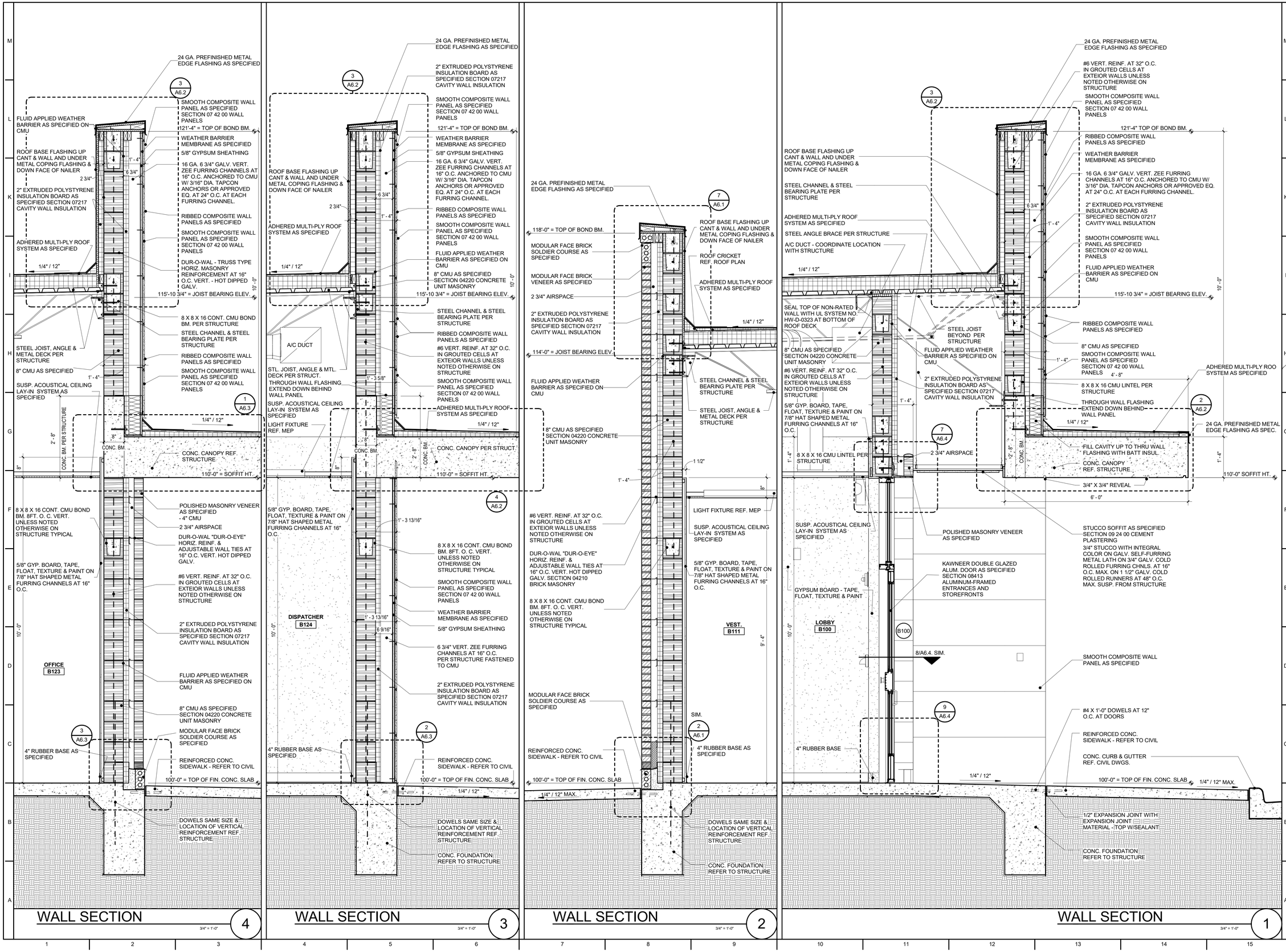
WALL SECTIONS

A5.4



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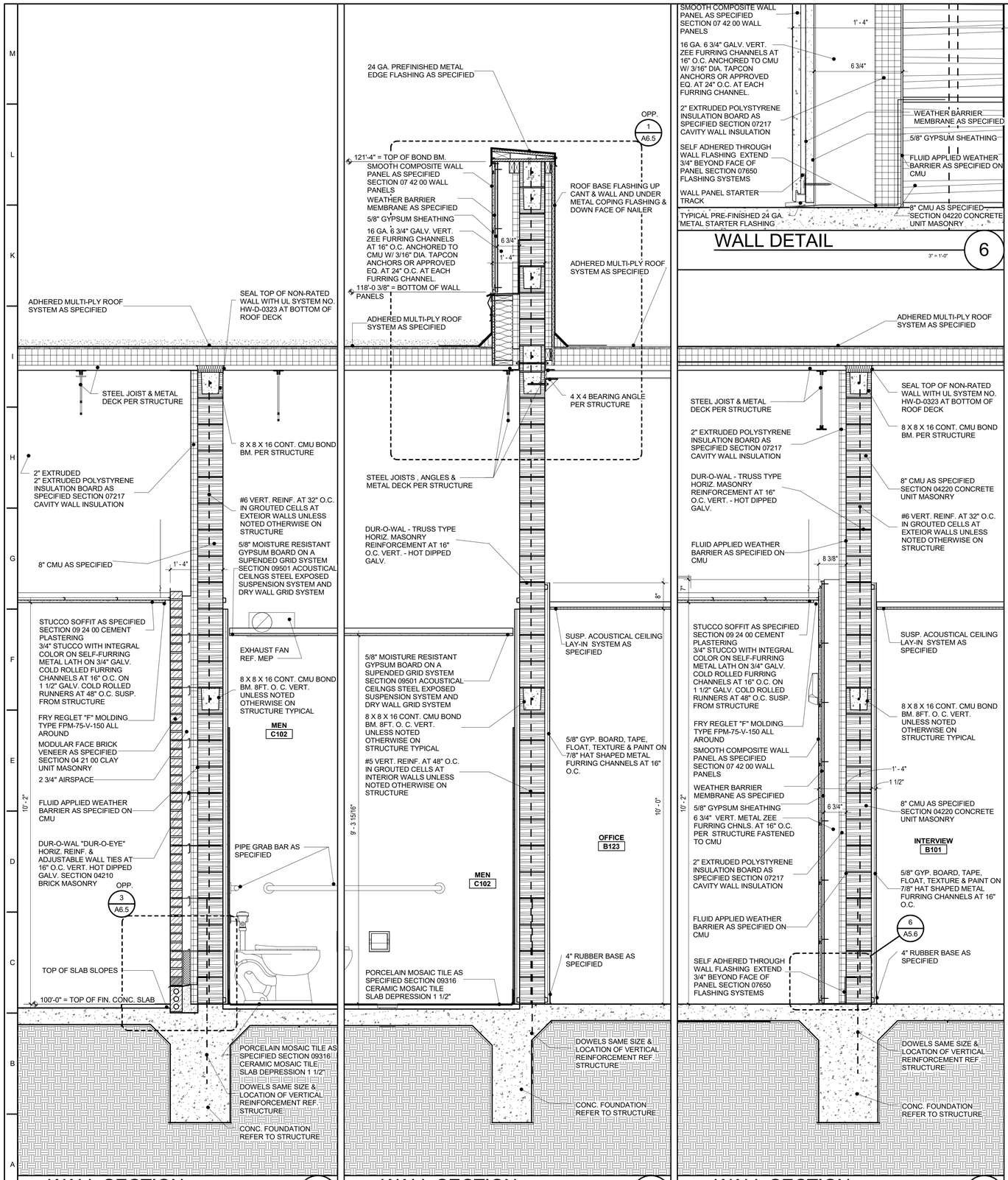
WALL SECTIONS

A5.5



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HIDALGO COUNTY, TEXAS

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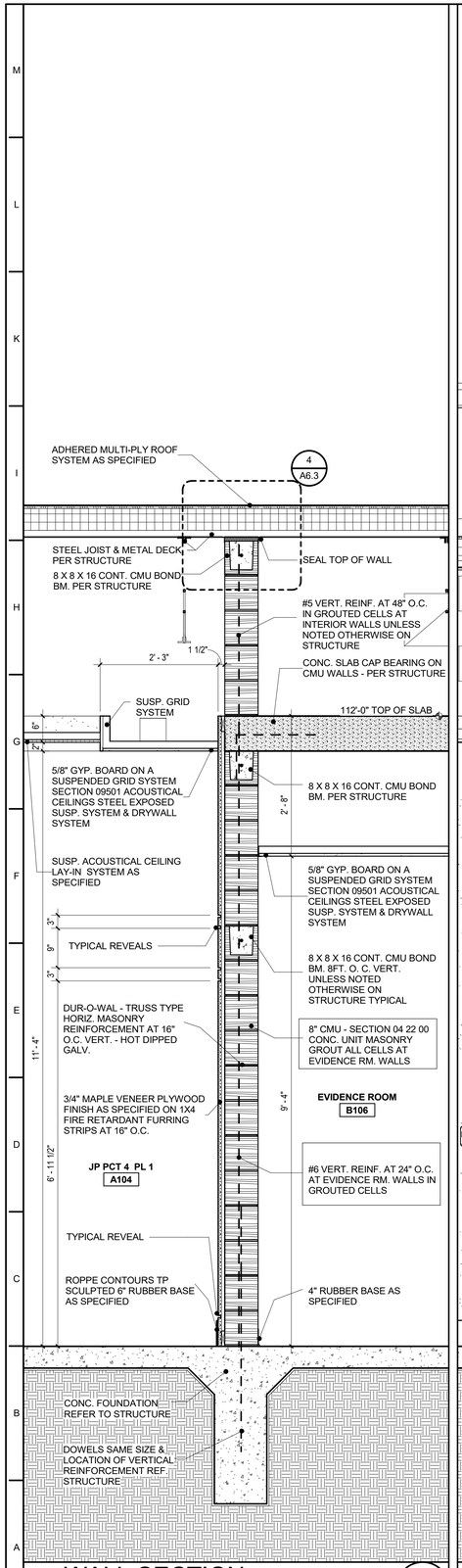
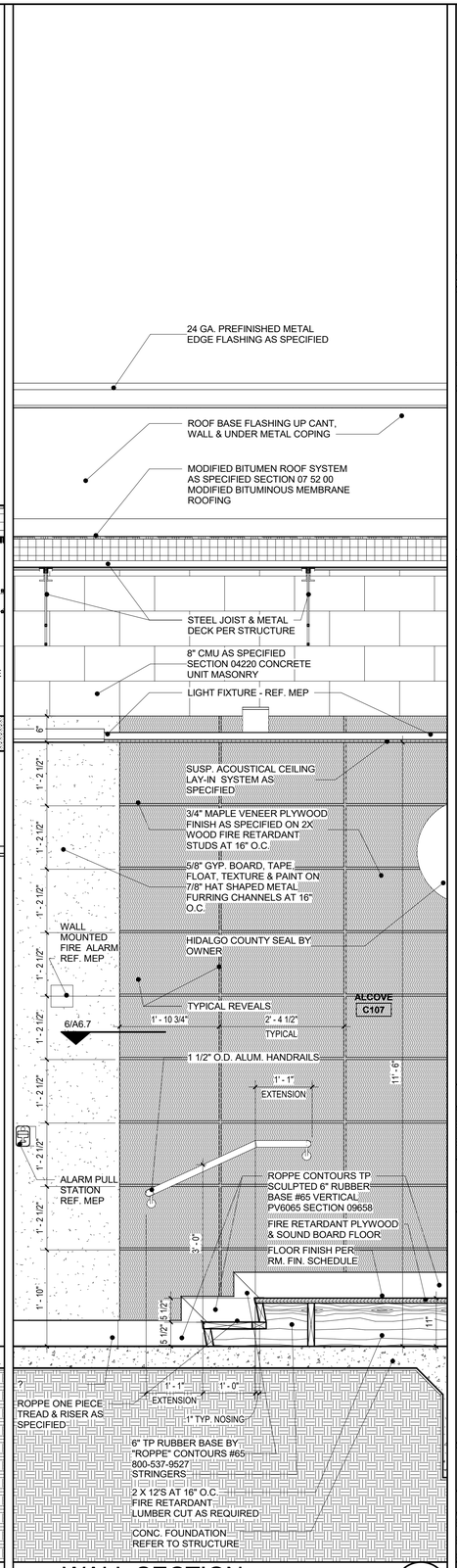
WALL SECTIONS

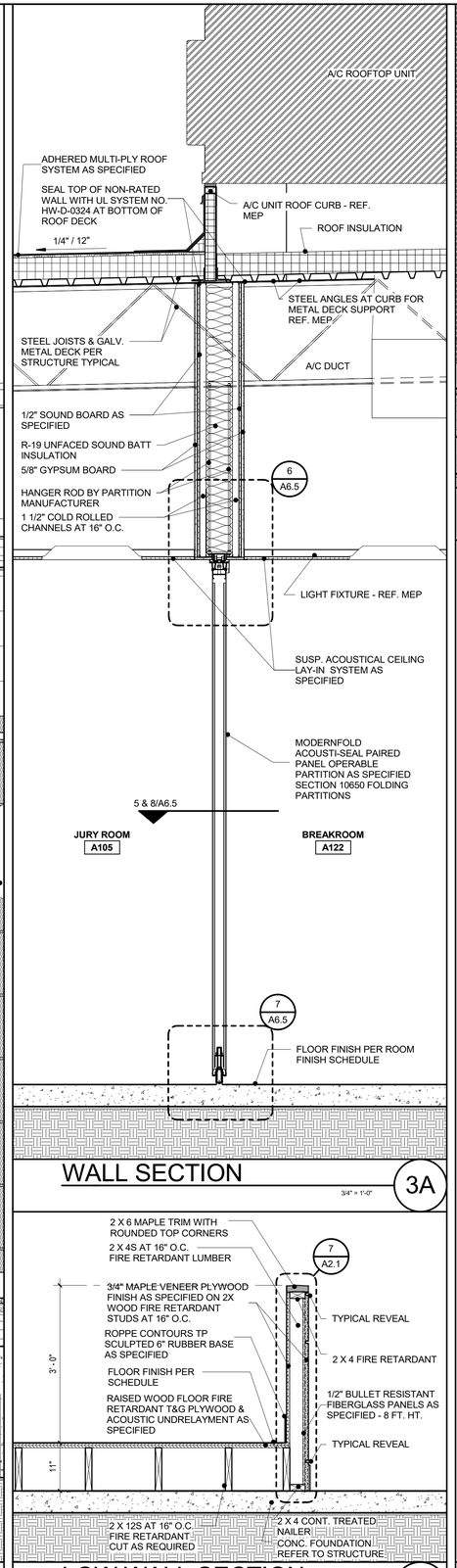
A5.6



WALL SECTION 5 — 3/4" = 1'-0"

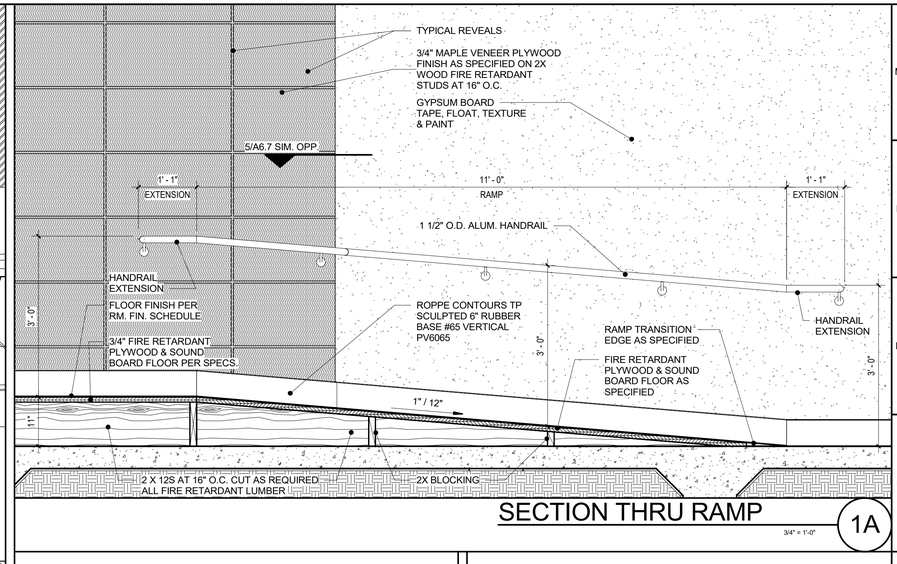


WALL SECTION 4 — 3/4" = 1'-0"



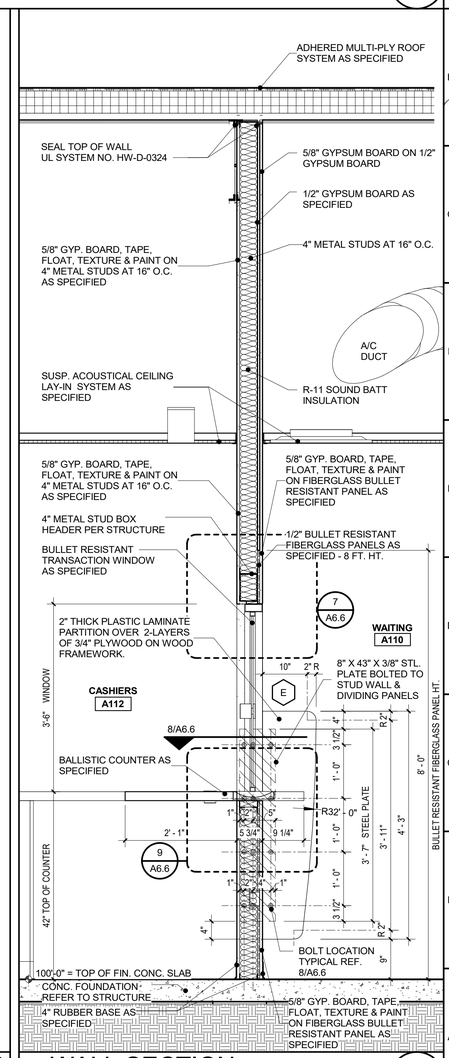
WALL SECTION 3A — 3/4" = 1'-0"

LOW WALL SECTION 3 — 3/4" = 1'-0"



SECTION THRU RAMP 1A — 3/4" = 1'-0"

NOT USED 2 — 3/4" = 1'-0"



WALL SECTION 1 — 3/4" = 1'-0"

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CONSULTANTS:

REGISTERED ARCHITECT MICHAEL E. ALLEN 15101 STATE OF TEXAS
02.05.2021

NO.	DATE	REVISIONS DESCRIPTION

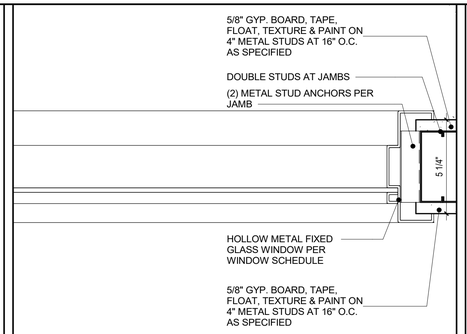
HIDALGO COUNTY PRECINCT No.4 NEW JUSTICE CENTER

HIDALGO COUNTY, TEXAS
EDINBURG, TEXAS 78542
1212 SOUTH 25TH AVENUE,

PROJECT NO: 2018.19
DATE: 2/5/2021 11:33:28 AM
STARTING DATE:
CK BY: Checker DWN BY: C.A.

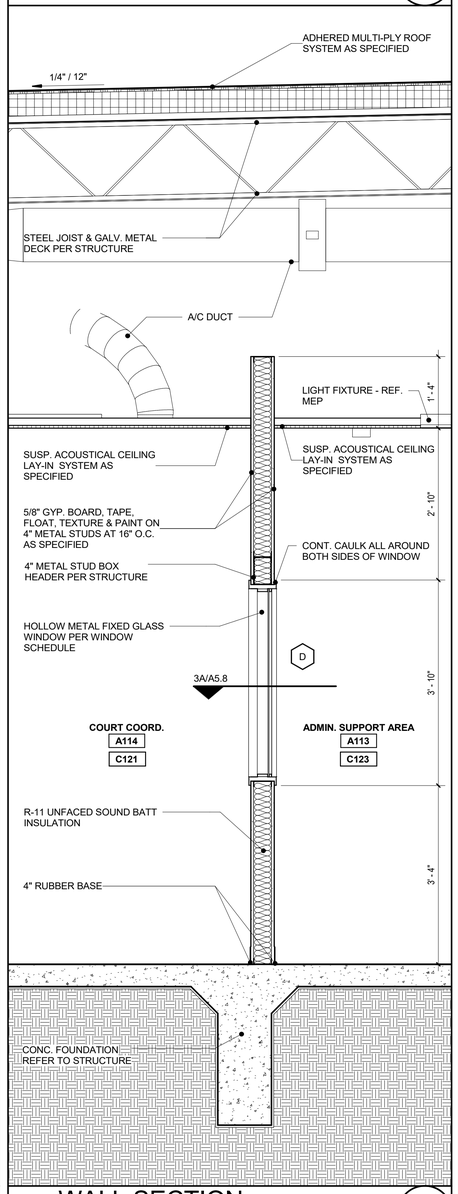
WALL SECTIONS

A5.7



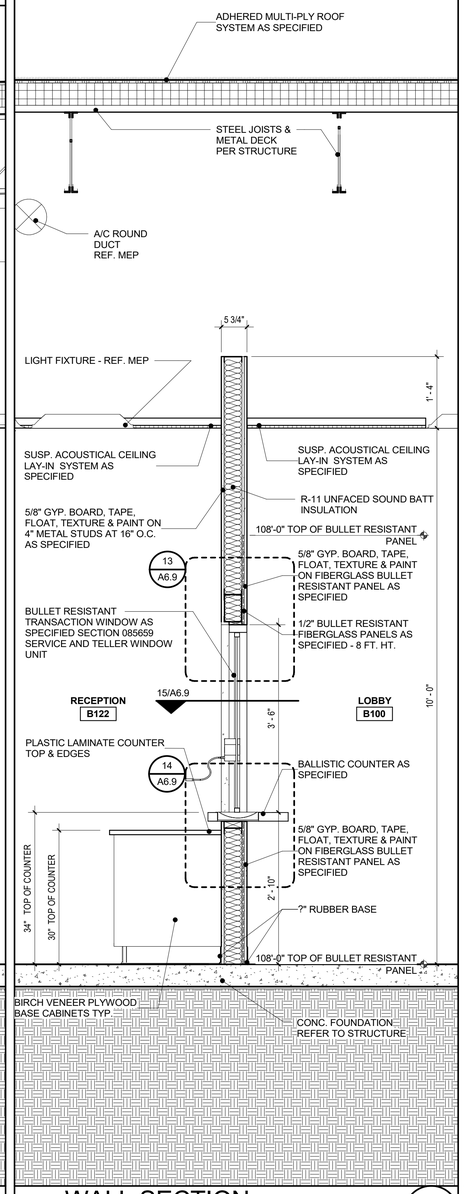
WINDOW JAMB DETAIL 3A

3" = 1'-0"



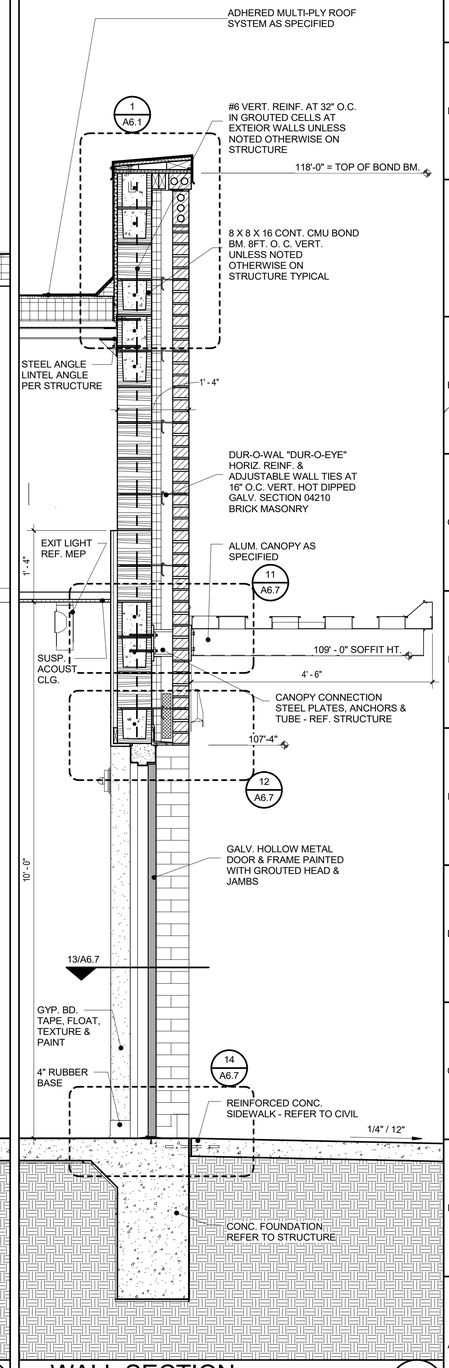
WALL SECTION 3

3/4" = 1'-0"



WALL SECTION 2

3/4" = 1'-0"



WALL SECTION 1

3/4" = 1'-0"

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02.05.2021

NO.	DATE	DESCRIPTION
		REVISIONS

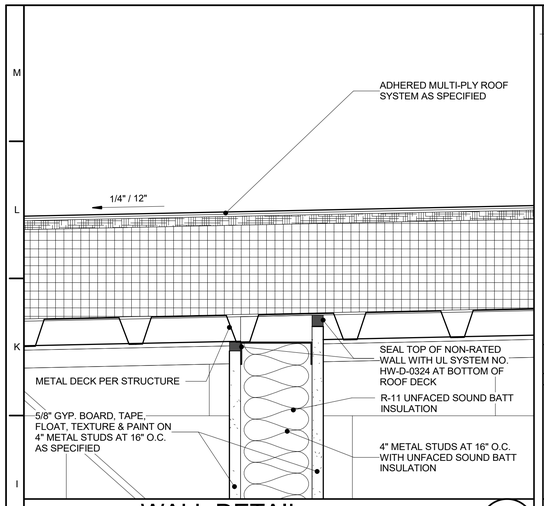
HIDALGO COUNTY PRECINCT No.4
NEW JUSTICE CENTER

HIDALGO COUNTY, TEXAS
EDINBURG, TEXAS 78542
1212 SOUTH 25TH AVENUE,

PROJECT NO: 2018.19
DATE: 2/5/2021 11:33:31 AM
STARTING DATE:
CK BY: Checker DWN BY: C.A.

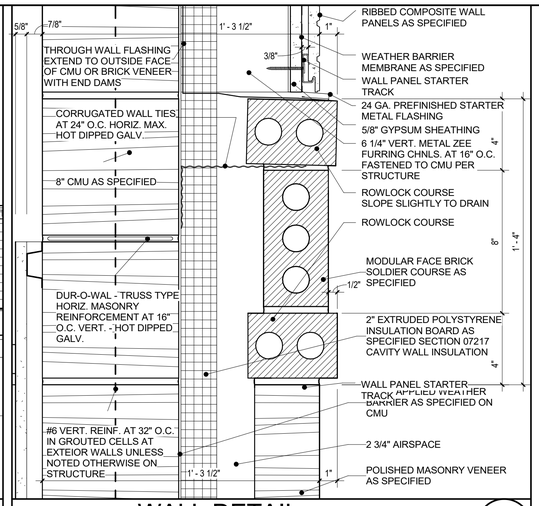
WALL SECTIONS

A5.8



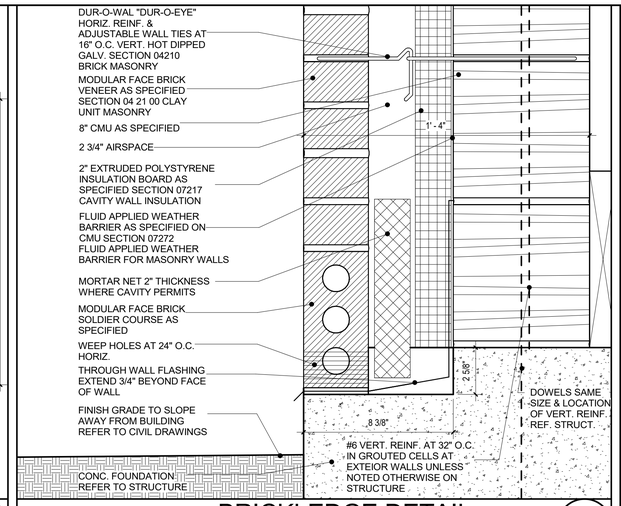
WALL DETAIL 8

3" = 1'-0"



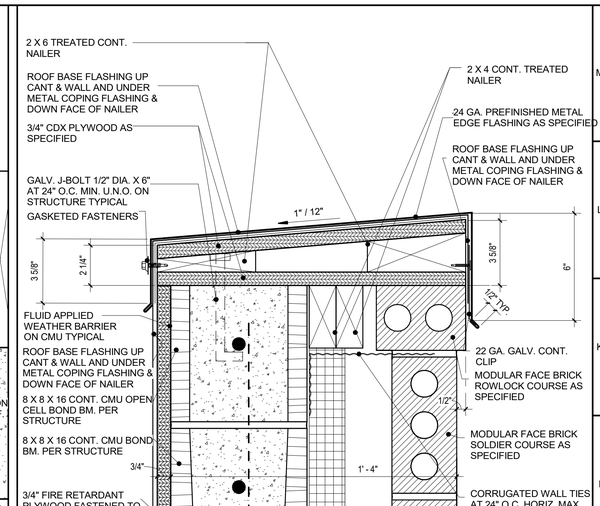
WALL DETAIL 5

3" = 1'-0"



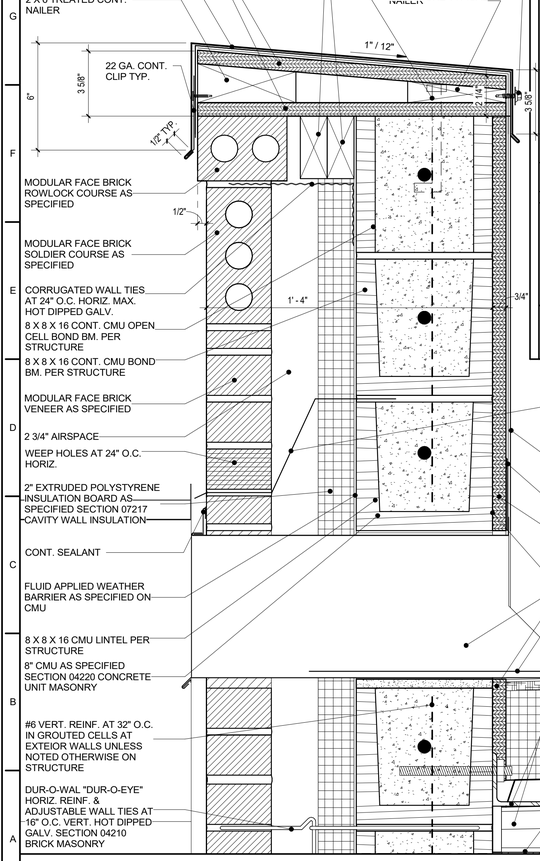
BRICKLEDGE DETAIL 3

3" = 1'-0"



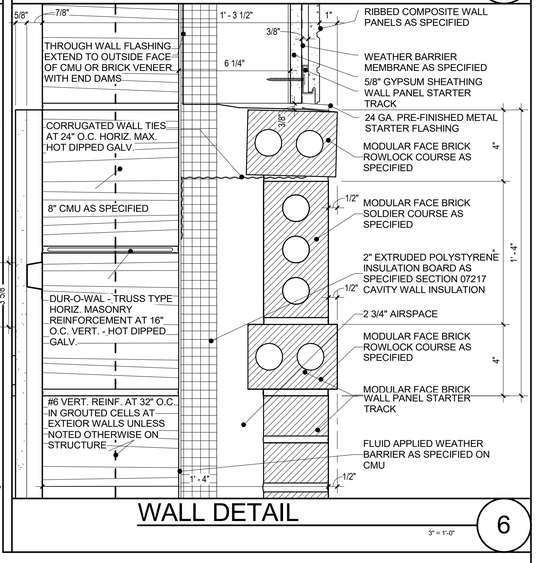
PARAPET WALL DETAIL 1

3" = 1'-0"



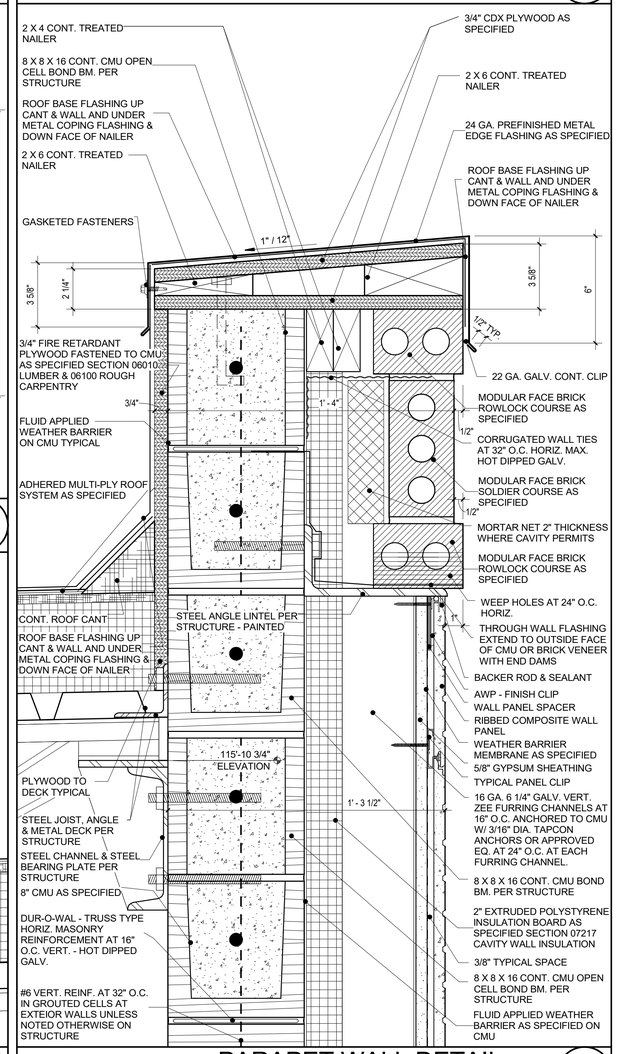
PARAPET WALL/SCUPPER DETAIL 7

3" = 1'-0"



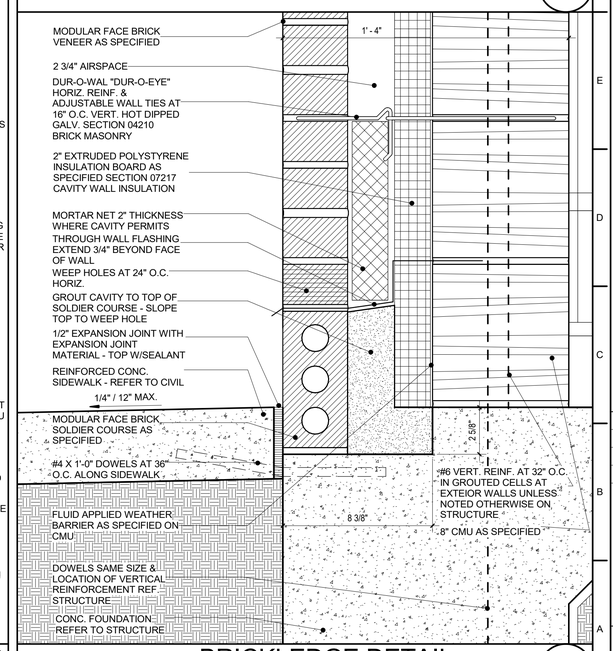
WALL DETAIL 6

3" = 1'-0"



PARAPET WALL DETAIL 4

3" = 1'-0"



BRICKLEDGE DETAIL 2

3" = 1'-0"

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02.05.2021

NO.	DATE	DESCRIPTION
		REVISIONS

HIDALGO COUNTY PRECINCT No.4 NEW JUSTICE CENTER

HIDALGO COUNTY, TEXAS

EDINBURG, TEXAS 78542

1212 SOUTH 257TH AVENUE,

PROJECT NO: 2018.19

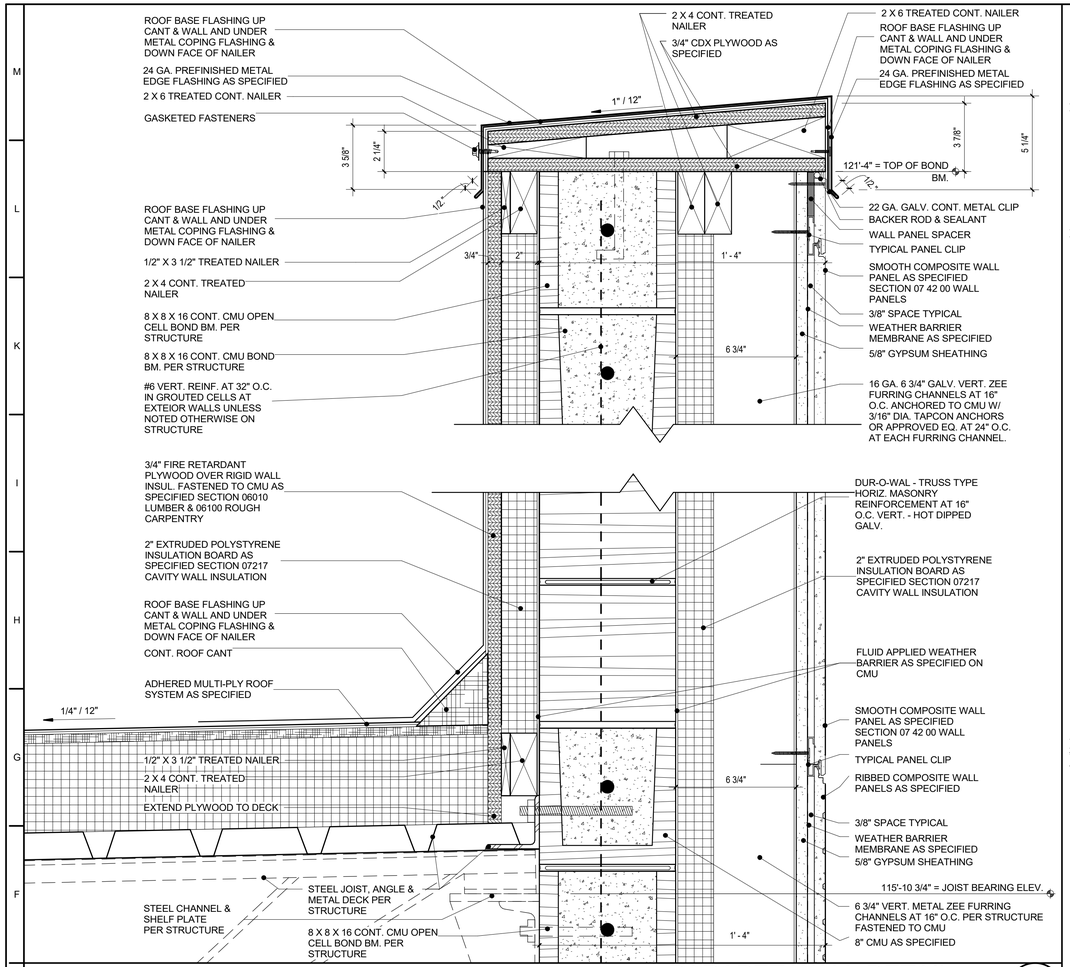
DATE: 2/5/2021 11:33:35 AM

STARTING DATE:

CK BY:Checker | DWN BY: C.A.

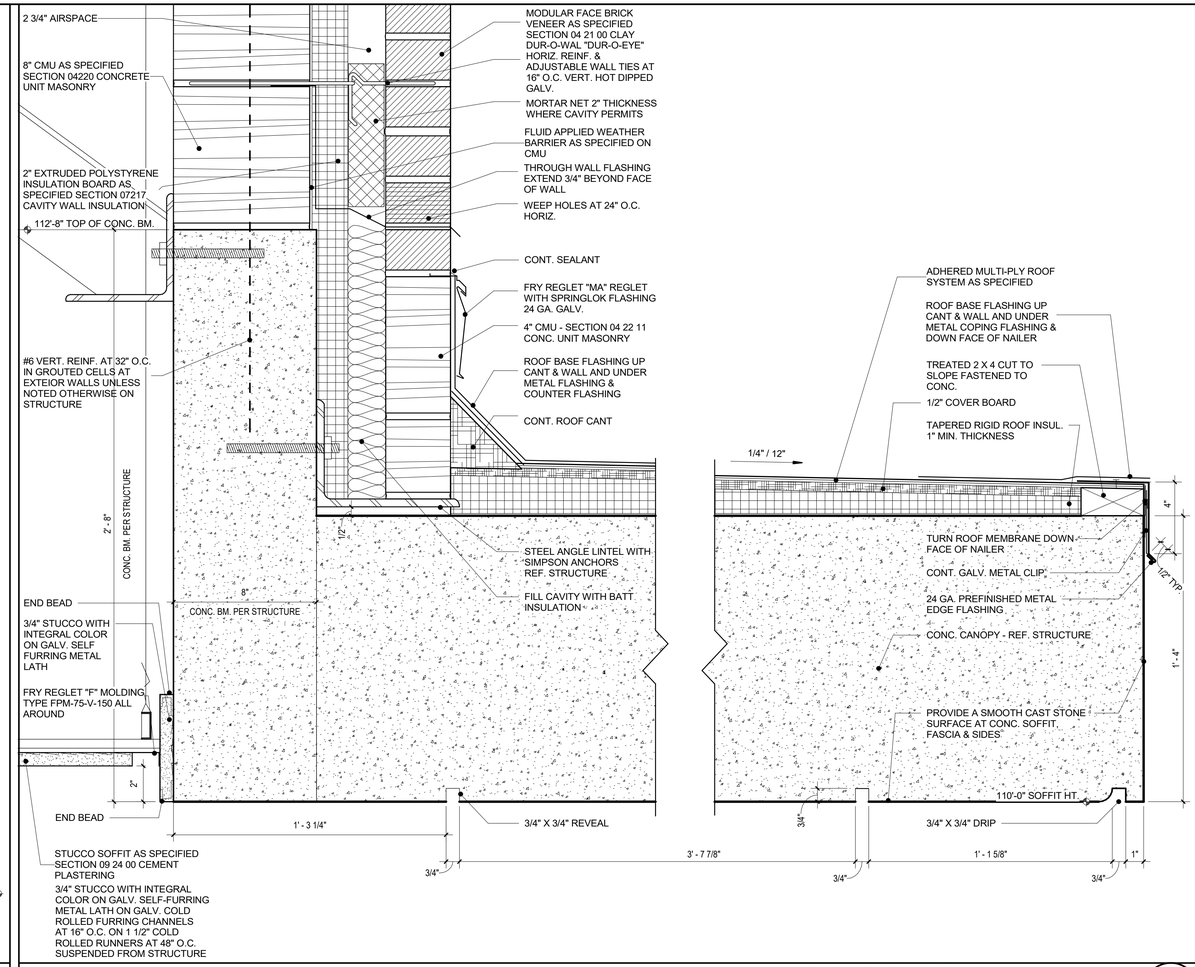
WALL DETAILS

A6.1



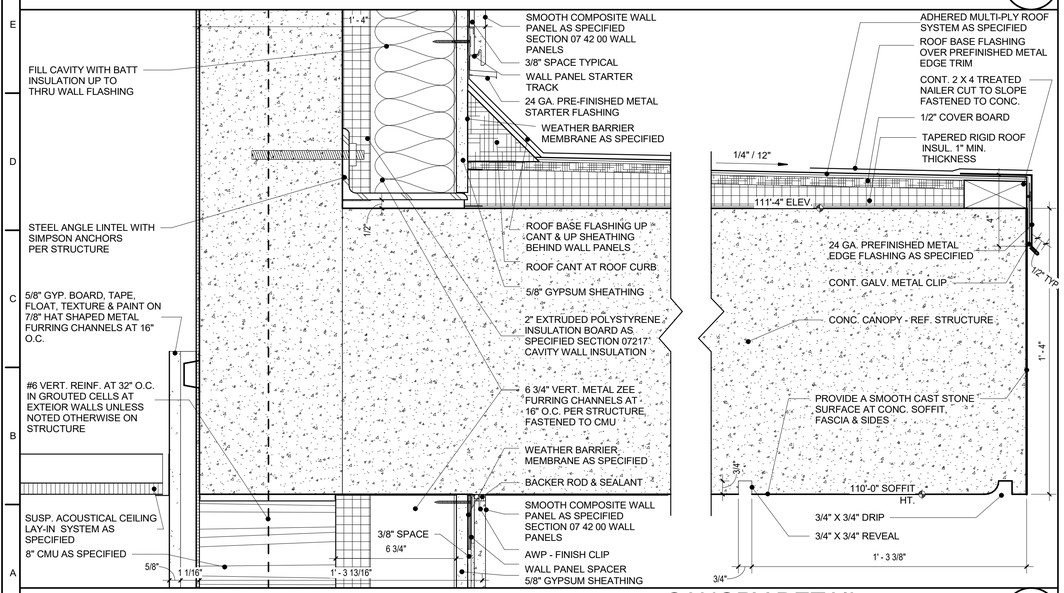
PARAPET WALL DETAIL 3

3" = 1'-0"



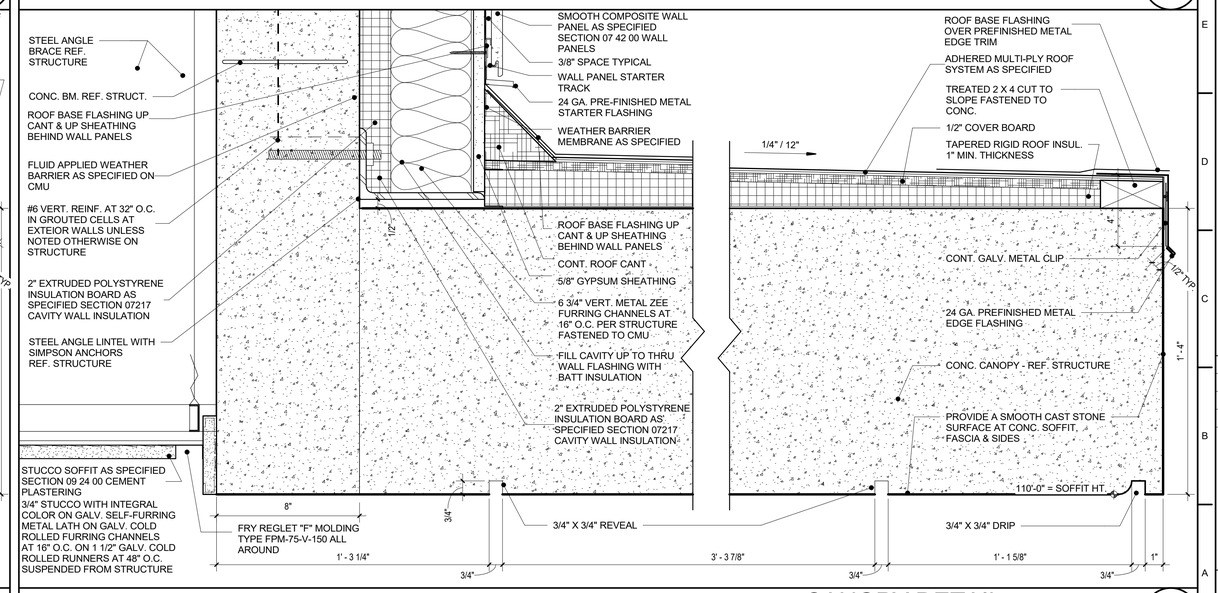
CANOPY DETAIL 1

3" = 1'-0"



CANOPY DETAIL 4

3" = 1'-0"



CANOPY DETAIL 2

3" = 1'-0"

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02.05.2021

NO.	DATE	REVISIONS DESCRIPTION

HIDALGO COUNTY PRECINCT No.4
NEW JUSTICE CENTER

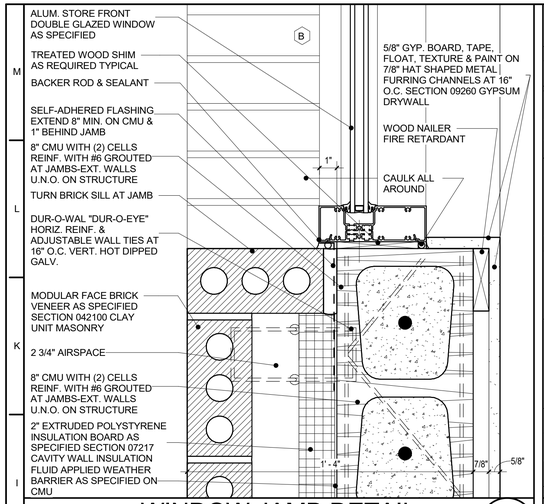
HIDALGO COUNTY, TEXAS

1212 SOUTH 25TH AVENUE, EDINBURG, TEXAS 78542

PROJECT NO:	2018.19
DATE:	2/5/2021 11:33:39 AM
STARTING DATE:	
CK BY: Checker	DWN BY: C.A.

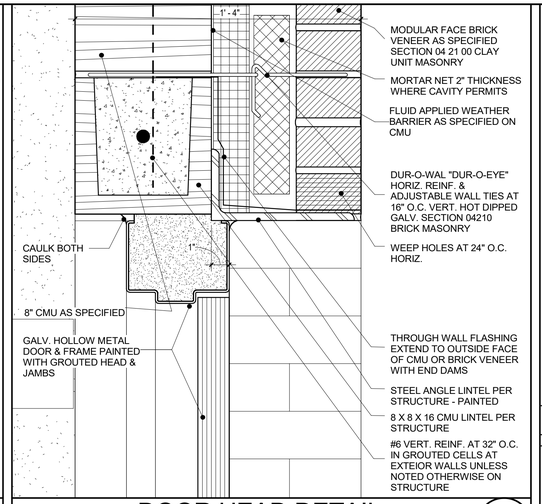
WALL DETAILS

A6.2



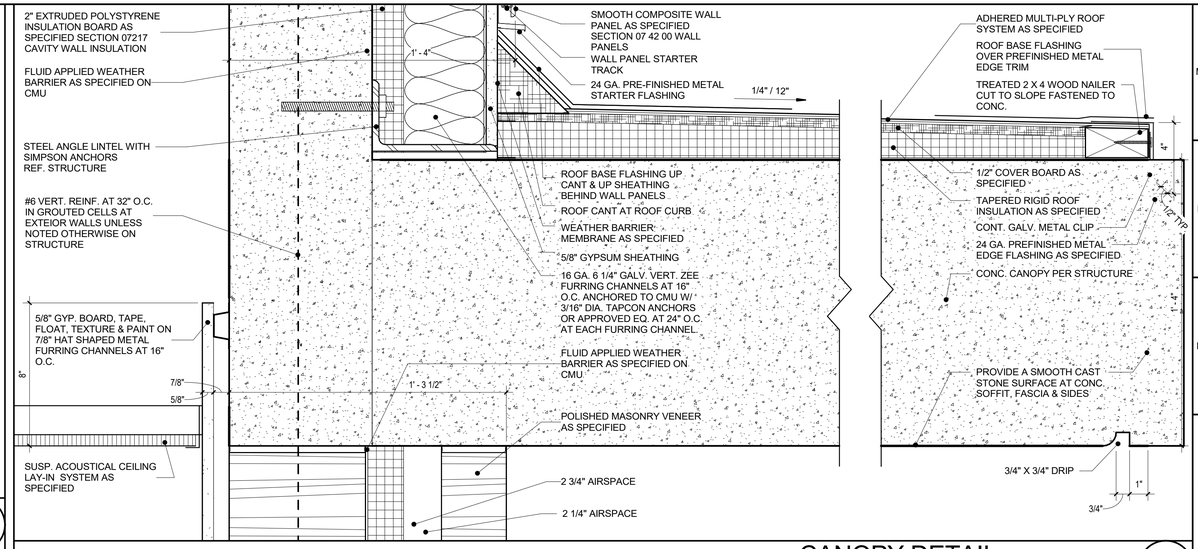
WINDOW JAMB DETAIL 9

3" = 1'-0"



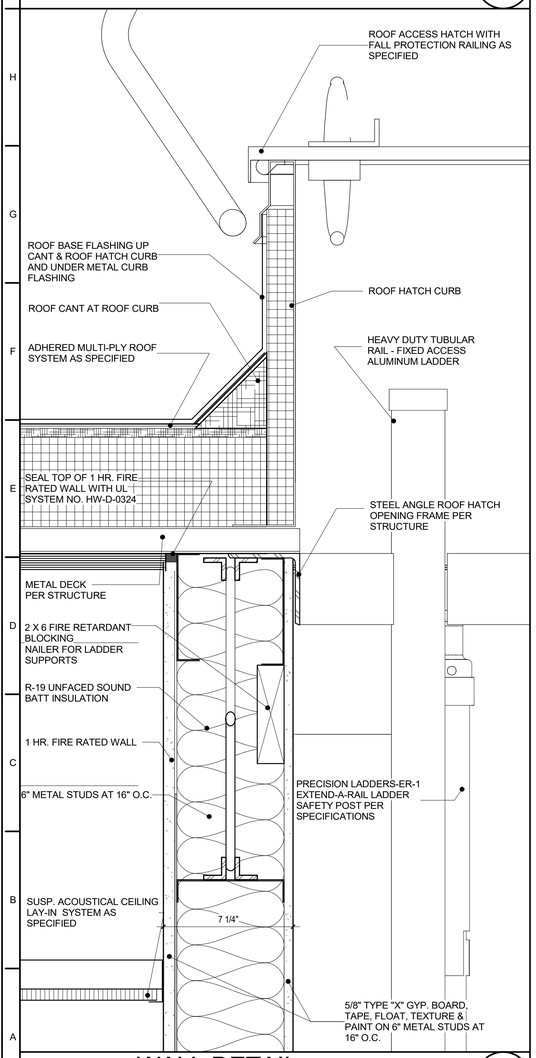
DOOR HEAD DETAIL 6

3" = 1'-0"



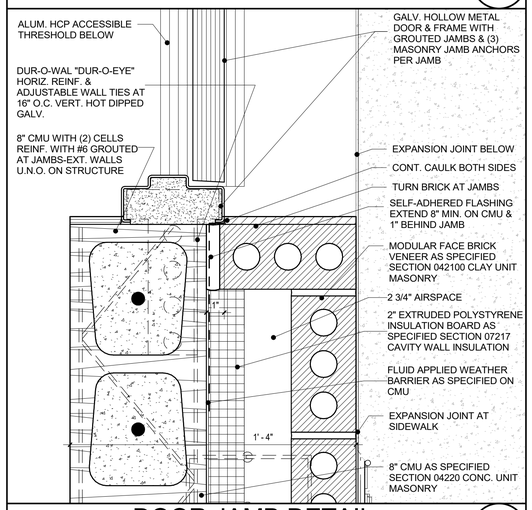
CANOPY DETAIL 1

3" = 1'-0"



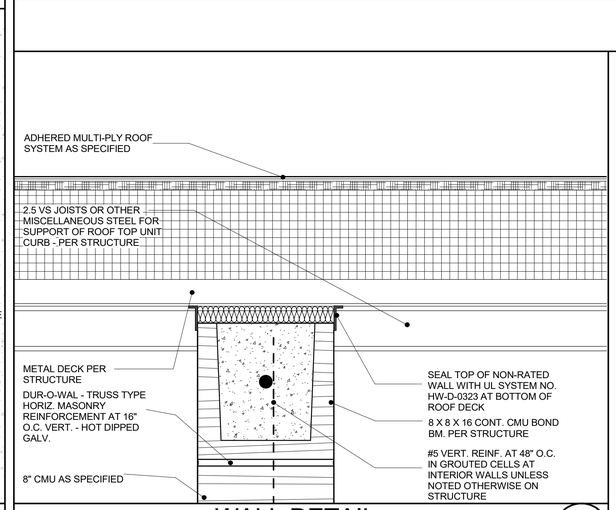
WALL DETAIL 10

3" = 1'-0"



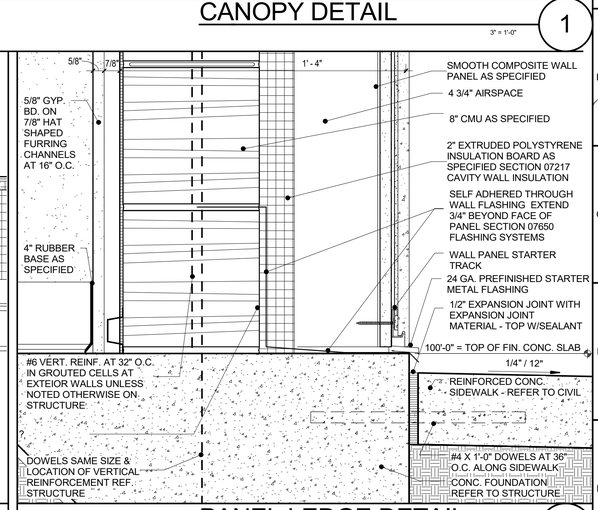
DOOR JAMB DETAIL 7

3" = 1'-0"



WALL DETAIL 4

3" = 1'-0"

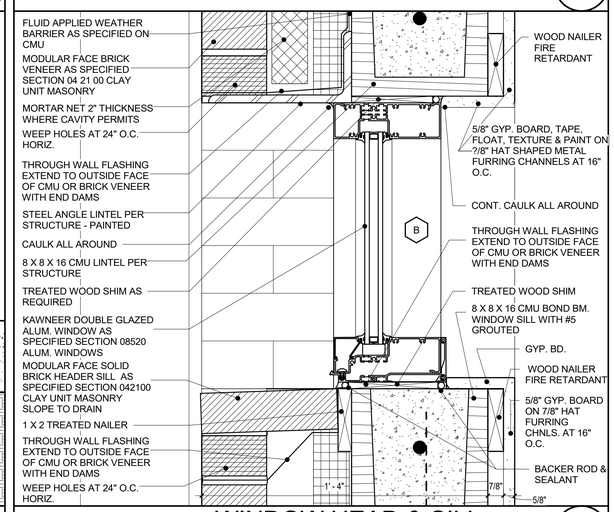


PANEL LEDGE DETAIL 2

3" = 1'-0"

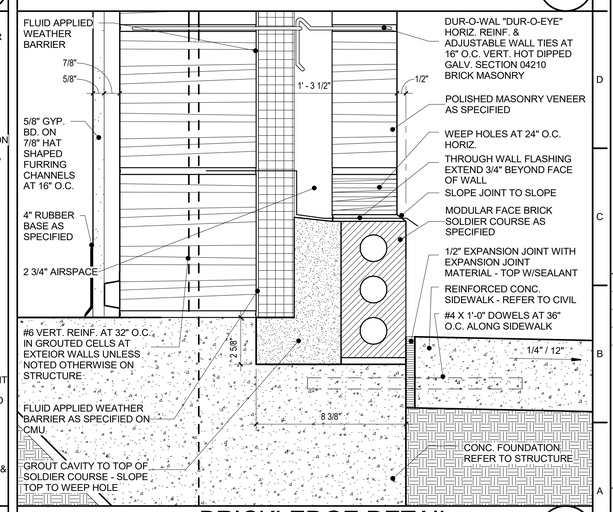
DOOR SILL DETAIL 8

3" = 1'-0"



WINDOW HEAD & SILL DETAIL 5

3" = 1'-0"



BRICKLEDGE DETAIL 3

3" = 1'-0"

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CONSULTANTS:

REGISTERED ARCHITECT MICHAEL E. ALLEN 15101 STATE OF TEXAS

02.05.2021

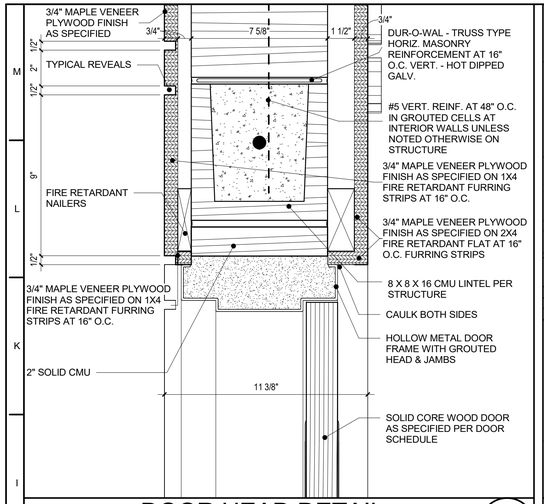
NO.	DATE	REVISIONS	DESCRIPTION

HIDALGO COUNTY PRECINCT No.4
NEW JUSTICE CENTER
HIDALGO COUNTY, TEXAS
EDINBURG, TEXAS 78542
1212 SOUTH 25TH AVENUE,

PROJECT NO:	2018.19
DATE:	2/5/2021 11:33:45 AM
STARTING DATE:	
CK BY: Checker	DWN BY: C.A.

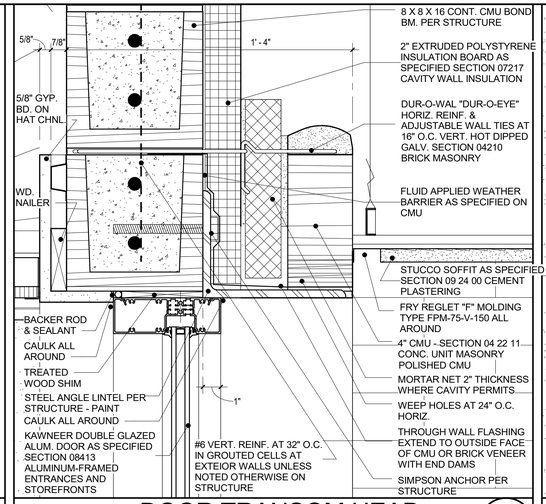
WALL DETAILS & DOOR/WINDOW DETAILS

A6.3



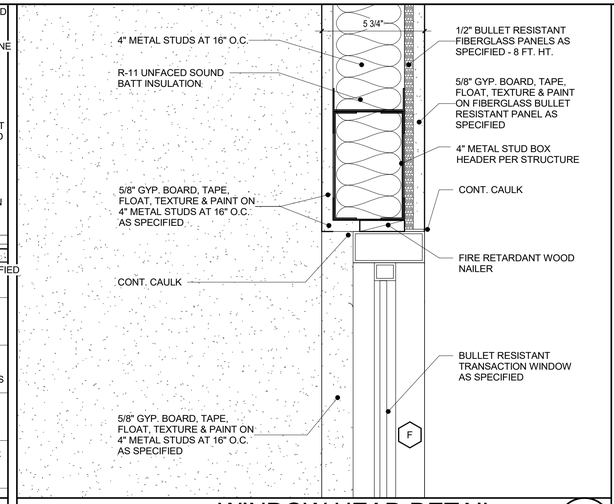
DOOR HEAD DETAIL 10

3" = 1'-0"



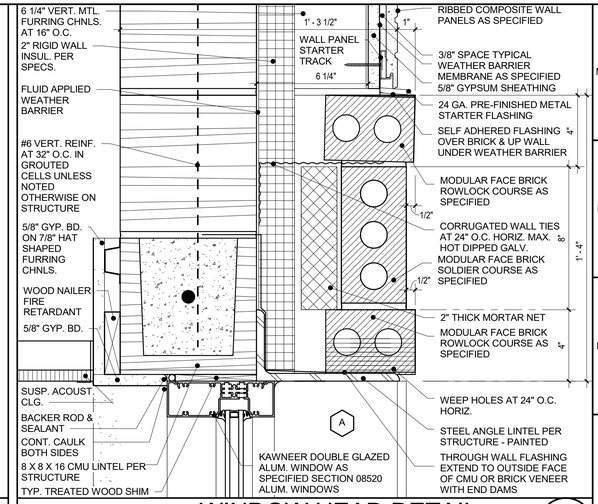
DOOR TRANSOM HEAD DETAIL 7

3" = 1'-0"



WINDOW HEAD DETAIL 4

3" = 1'-0"



WINDOW HEAD DETAIL 1

3" = 1'-0"

DOOR JAMB DETAIL 11

3" = 1'-0"

DOOR JAMB DETAIL 8

3" = 1'-0"

WINDOW JAMB DETAIL 5

3" = 1'-0"

WINDOW JAMB DETAIL 2

3" = 1'-0"

DOOR SILL DETAIL 12

3" = 1'-0"

DOOR SILL DETAIL 9

3" = 1'-0"

WINDOW SILL DETAIL 6

3" = 1'-0"

WINDOW SILL DETAIL 3

3" = 1'-0"

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CONSULTANTS:

REGISTERED ARCHITECT MICHAEL E. ALLEN 15101 STATE OF TEXAS

02.05.2021

NO.	DATE	REVISIONS DESCRIPTION

HIDALGO COUNTY PRECINCT No.4 NEW JUSTICE CENTER

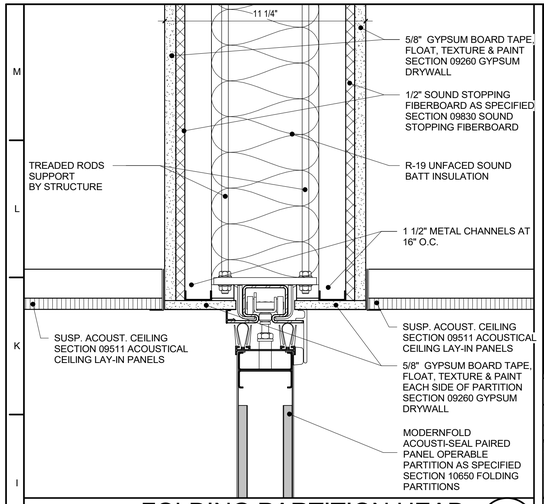
HIDALGO COUNTY, TEXAS

1212 SOUTH 25TH AVENUE, EDINBURG, TEXAS 78542

PROJECT NO:	2018.19
DATE:	2/5/2021 11:33:51 AM
STARTING DATE:	
CK BY: Checker	DWN BY: C.A.

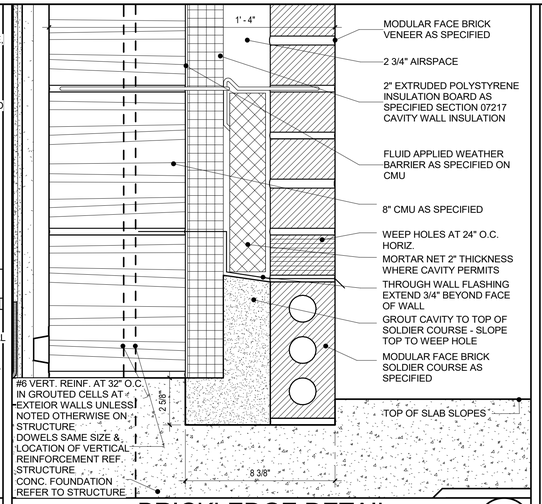
DOOR & WINDOW HEAD, JAMB & SILL DETAILS

A6.4



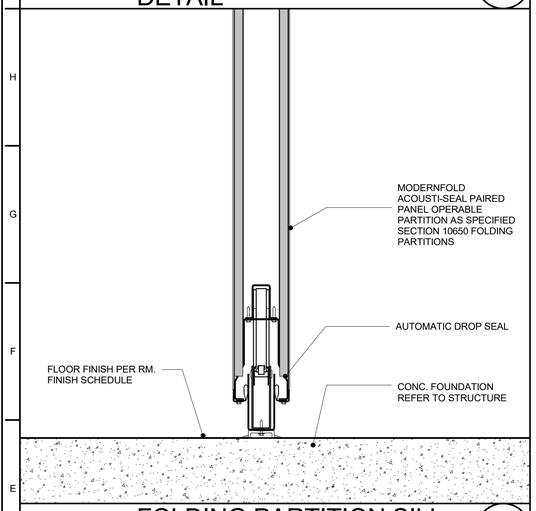
FOLDING PARTITION HEAD DETAIL 6

3" = 1'-0"



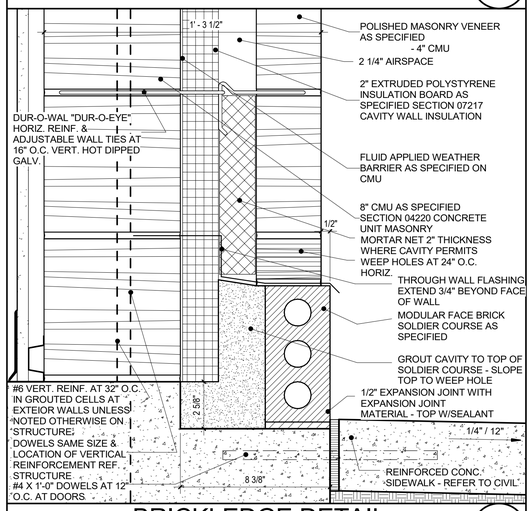
BRICKLEDGE DETAIL 3

3" = 1'-0"



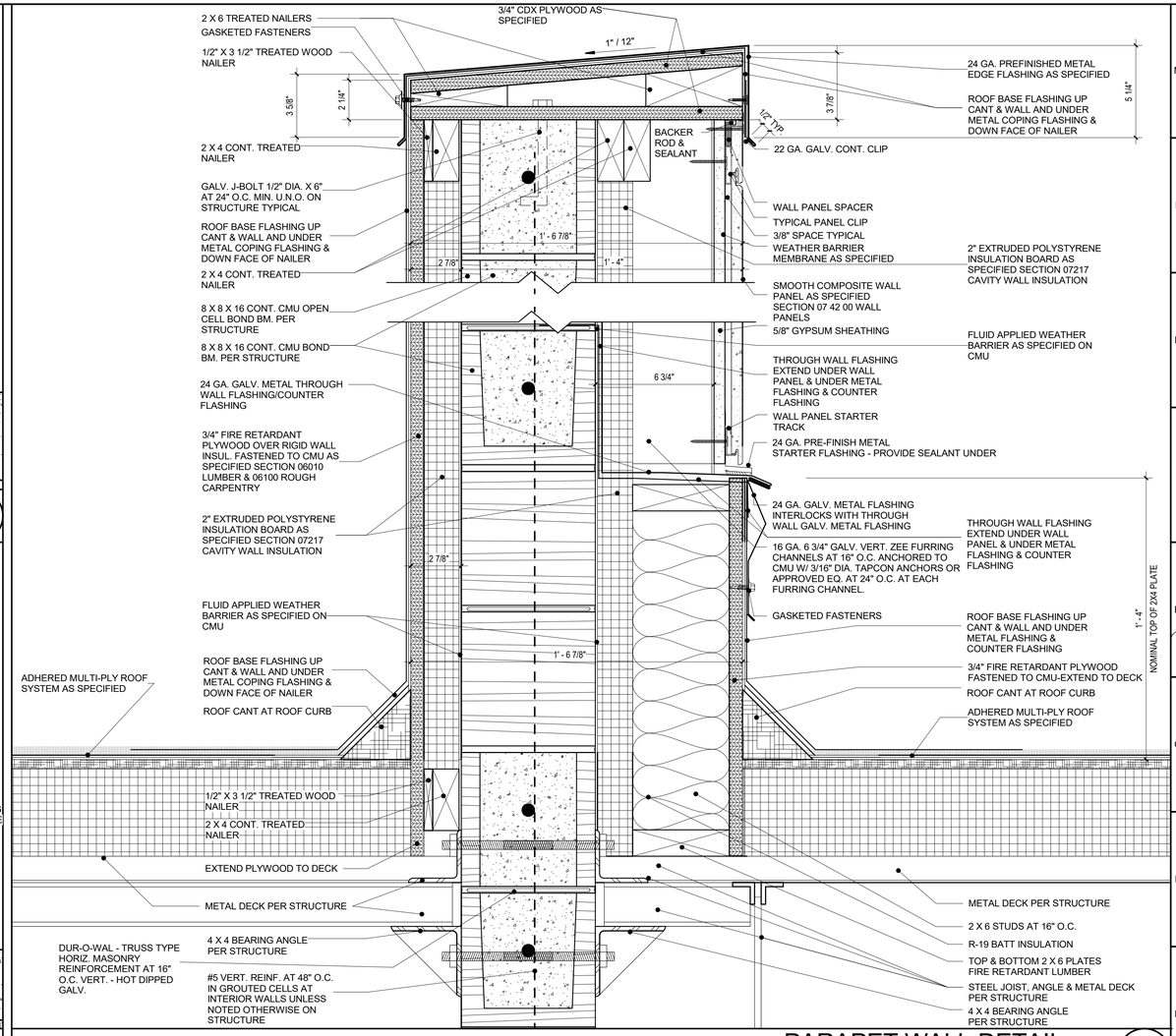
FOLDING PARTITION SILL DETAIL 7

3" = 1'-0"



BRICKLEDGE DETAIL 4

3" = 1'-0"



PARAPET WALL DETAIL 1

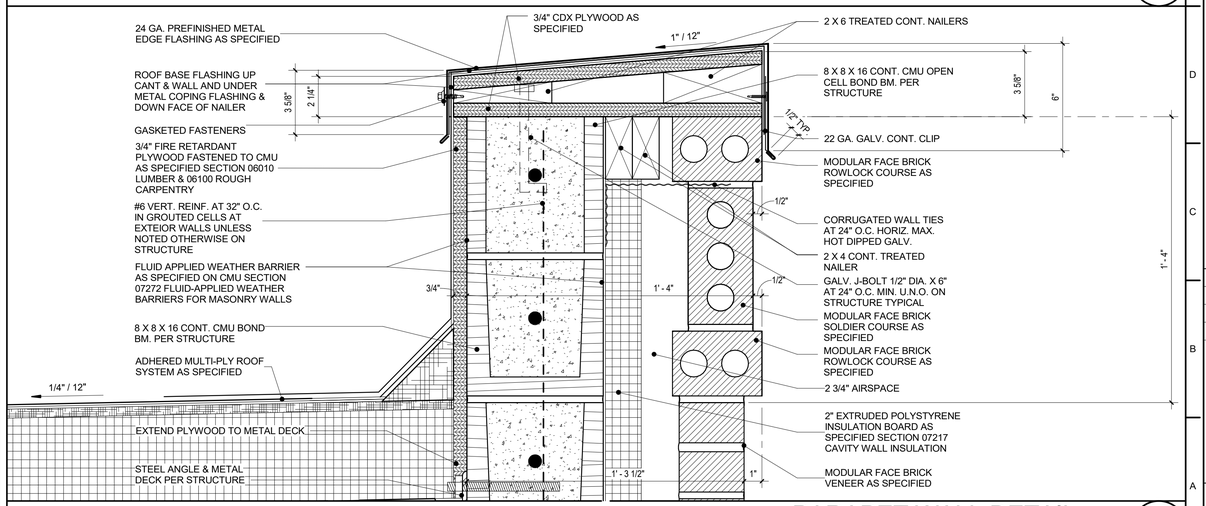
3" = 1'-0"

FOLDING PARTITION JAMB DETAIL STACK SIDE 8

3" = 1'-0"

FOLDING PARTITION JAMB DETAIL 5

3" = 1'-0"



PARAPET WALL DETAIL 2

3" = 1'-0"

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02.05.2021

NO.	DATE	REVISIONS DESCRIPTION

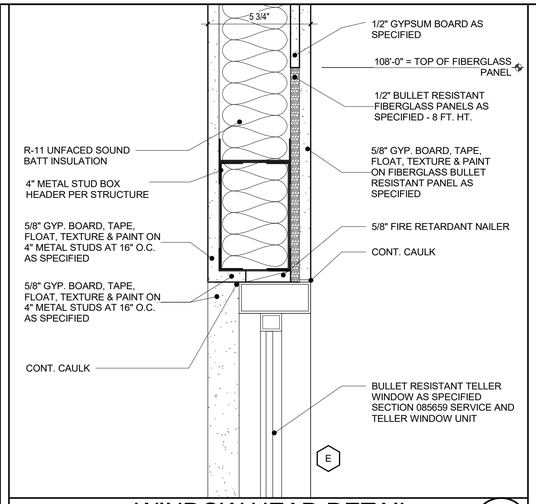
HIDALGO COUNTY PRECINCT No.4
NEW JUSTICE CENTER

HIDALGO COUNTY, TEXAS
1212 SOUTH 25TH AVENUE, EDINBURG, TEXAS 78542

PROJECT NO: 2018.19
DATE: 2/5/2021 11:33:56 AM
STARTING DATE:
CK BY: Checker DWN BY: C.A.

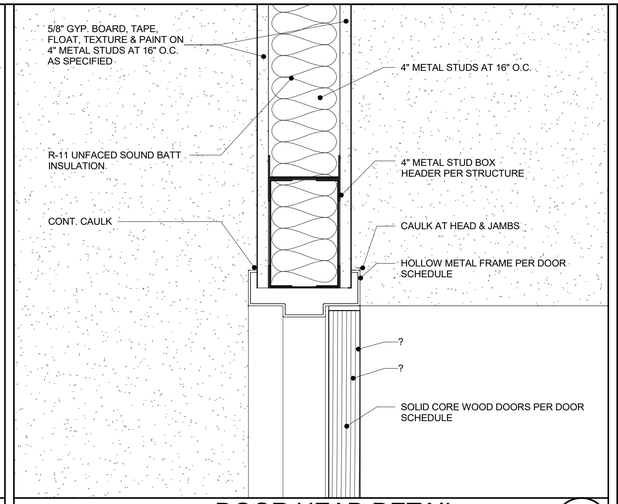
WALL DETAILS & FOLDING PARTITION DETAILS

A6.5



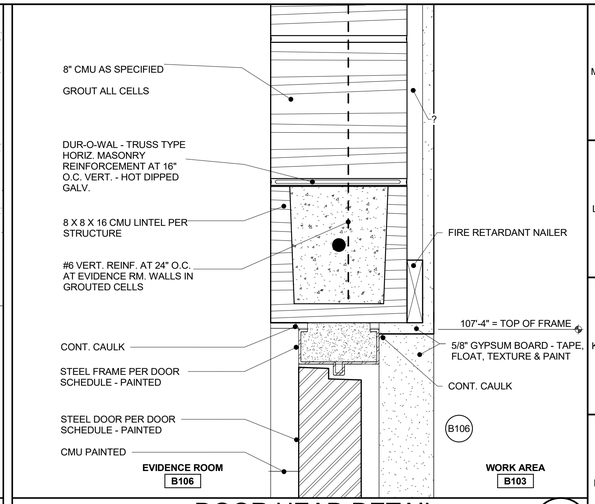
WINDOW HEAD DETAIL 7

3" = 1'-0"



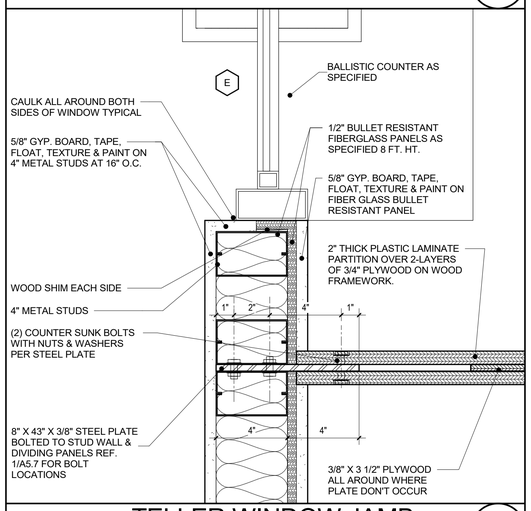
DOOR HEAD DETAIL 4

3" = 1'-0"



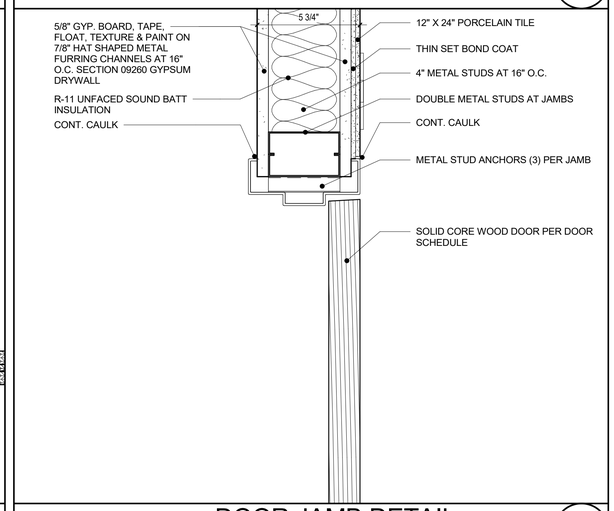
DOOR HEAD DETAIL 1

3" = 1'-0"



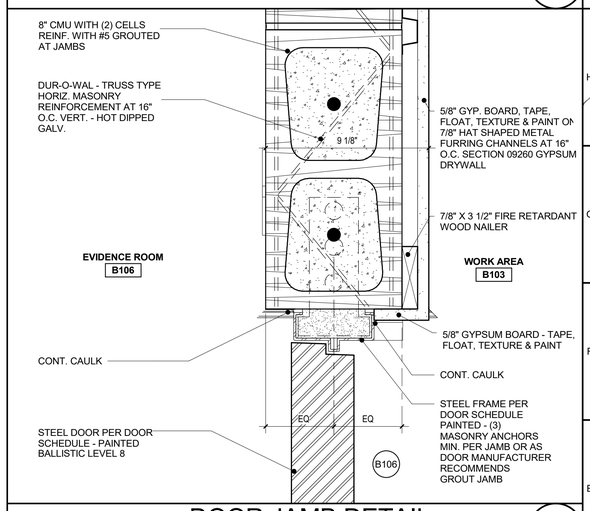
TELLER WINDOW JAMB DETAIL 8

3" = 1'-0"



DOOR JAMB DETAIL 5

3" = 1'-0"



DOOR JAMB DETAIL 2

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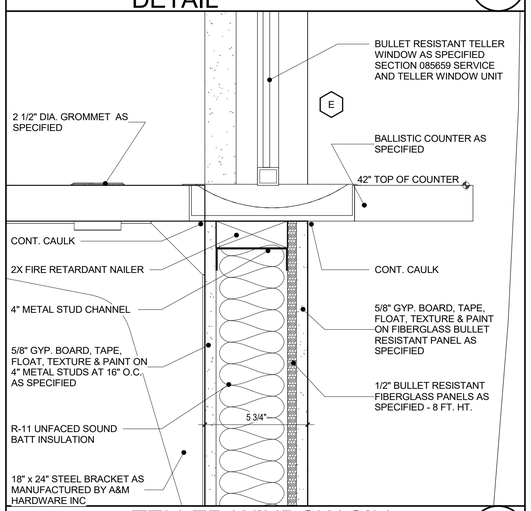
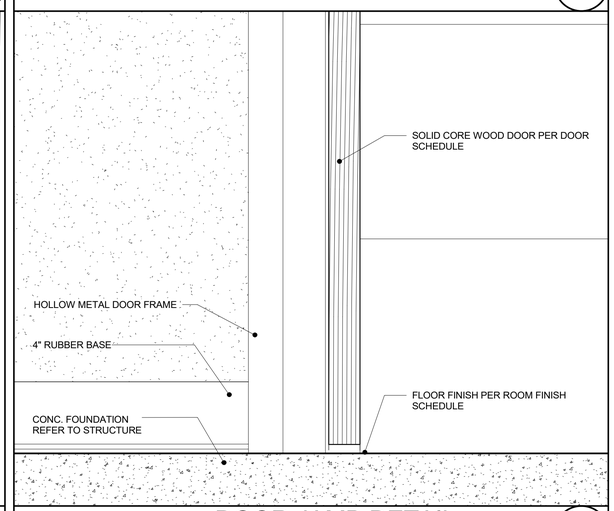


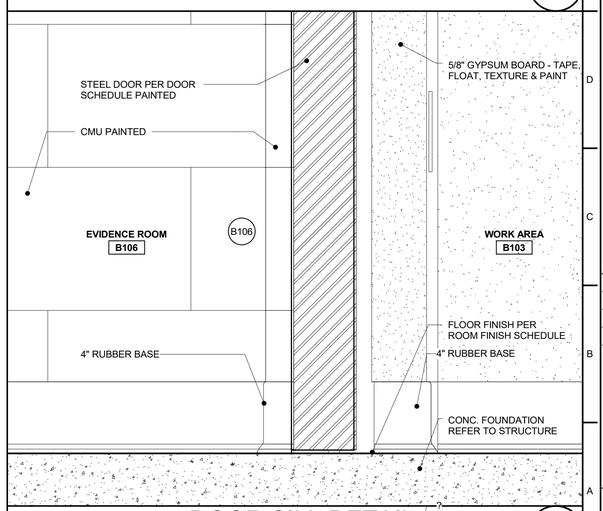
TELLER WINDOW SILL DETAIL 9

3" = 1'-0"



DOOR JAMB DETAIL 6

3" = 1'-0"



DOOR SILL DETAIL 3

3" = 1'-0"

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McAllen Harlingen

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CONSULTANTS:

REGISTERED ARCHITECT MICHAEL E. ALLEX 15101 STATE OF TEXAS

02.05.2021

NO.	DATE	REVISIONS DESCRIPTION

HIDALGO COUNTY PRECINCT No.4 NEW JUSTICE CENTER

HIDALGO COUNTY, TEXAS

1212 SOUTH 25TH AVENUE, EDINBURG, TEXAS 78542

PROJECT NO: 2018.19

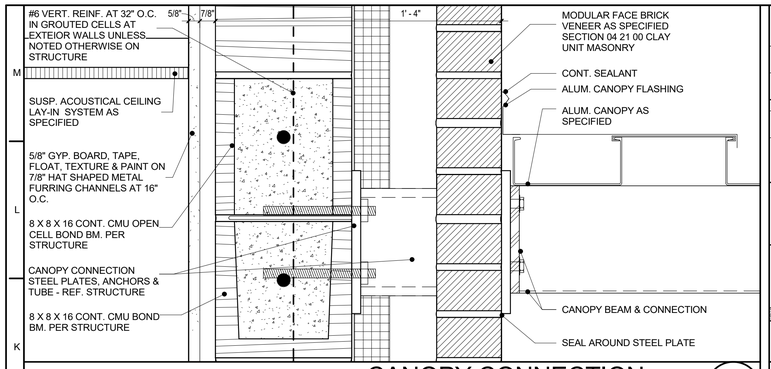
DATE: 2/5/2021 11:34:00 AM

STARTING DATE:

CK BY: Checker DWN BY: C.A.

DOOR & WINDOW HEAD, JAMB & SILL DETAILS

A6.6



CANOPY CONNECTION DETAIL 11

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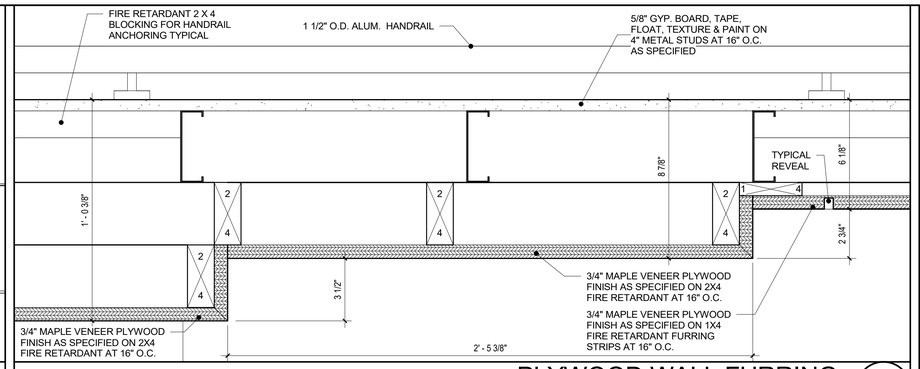

PLYWOOD WALL FURRING DETAIL 5

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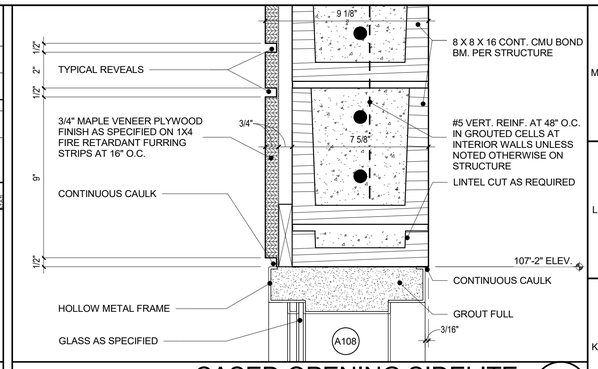
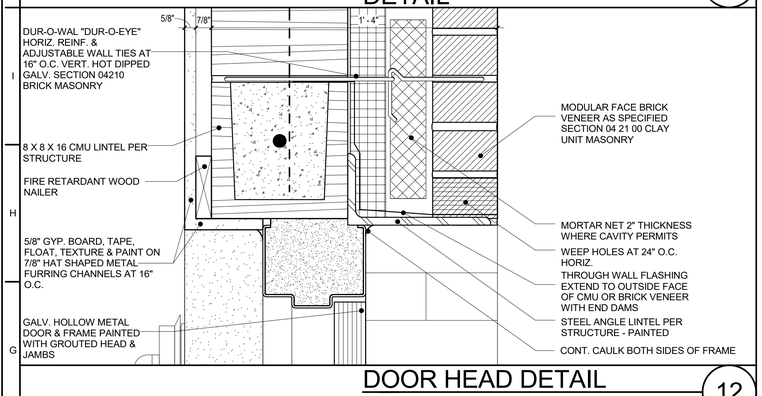


CASED OPENING SIDELITE HEAD DETAIL 1

3" = 1'-0"

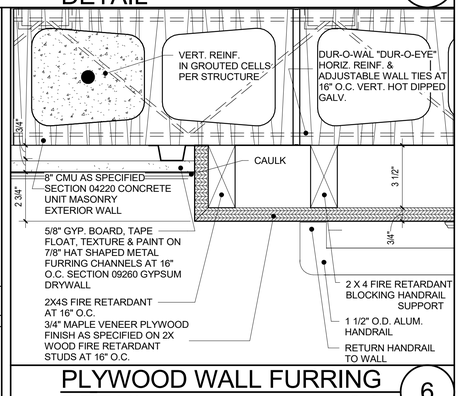


DOOR HEAD DETAIL 12

3" = 1'-0"

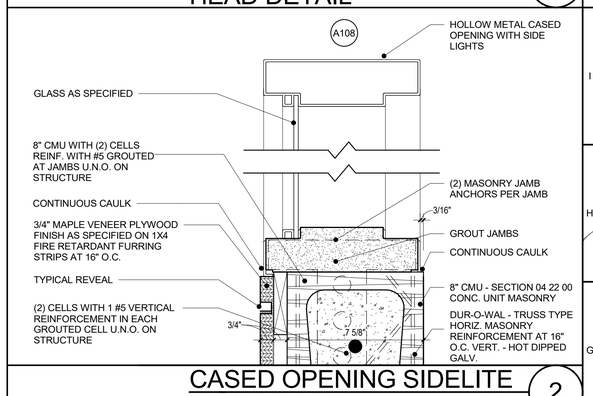
WALL DETAIL 9

3" = 1'-0"



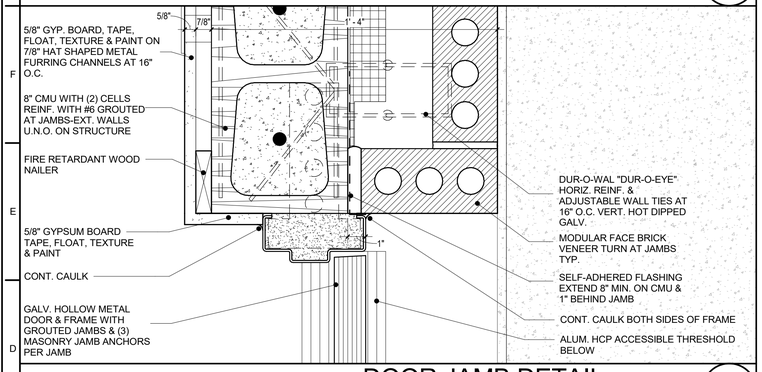
PLYWOOD WALL FURRING DETAIL 6

3" = 1'-0"



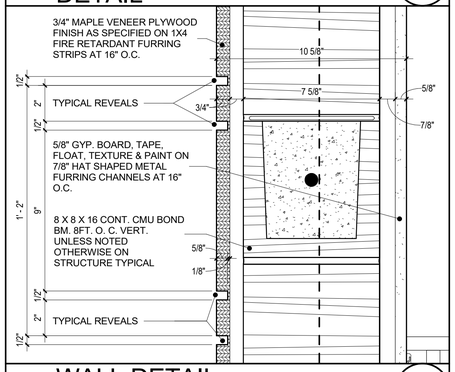
CASED OPENING SIDELITE JAMB DETAIL 2

3" = 1'-0"



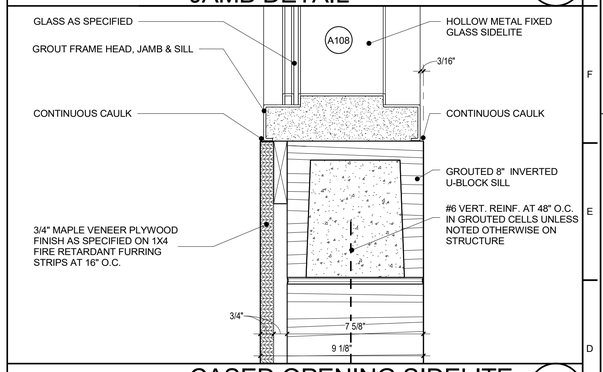
DOOR JAMB DETAIL 13

3" = 1'-0"



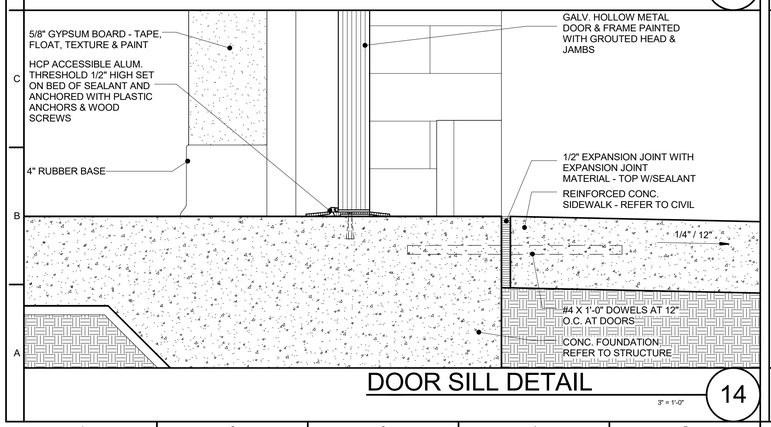
WALL DETAIL 7

3" = 1'-0"



CASED OPENING SIDELITE SILL DETAIL 3

3" = 1'-0"

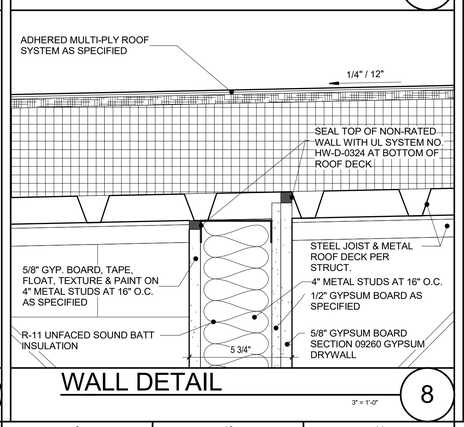


DOOR SILL DETAIL 14

3" = 1'-0"

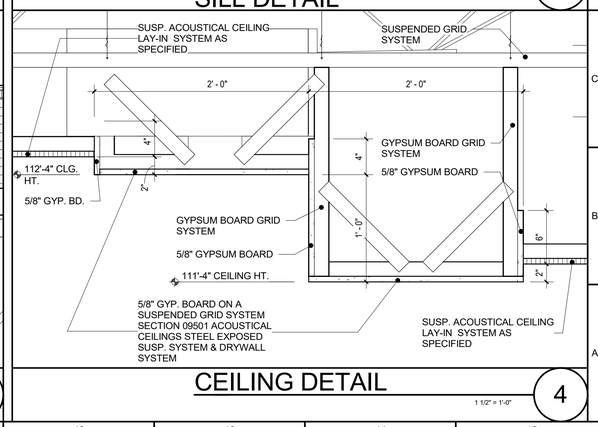
NOT USED 10

1/16" = 1'-0"



WALL DETAIL 8

3" = 1'-0"



CEILING DETAIL 4

1 1/2" = 1'-0"

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CONSULTANTS:

REGISTERED ARCHITECT MICHAEL E. ALLEN 15101 STATE OF TEXAS

02.05.2021

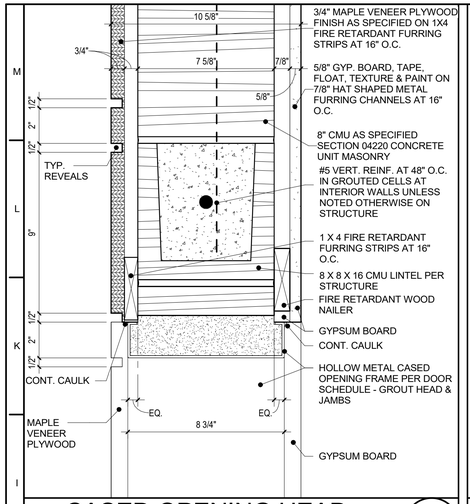
NO.	DATE	REVISIONS DESCRIPTION

HIDALGO COUNTY PRECINCT No.4
NEW JUSTICE CENTER
HIDALGO COUNTY, TEXAS
EDINBURG, TEXAS 78542
1212 SOUTH 25TH AVENUE,

PROJECT NO:	2018.19
DATE:	2/5/2021 11:34:06 AM
STARTING DATE:	
CK BY: Checker	DWN BY: C.A.

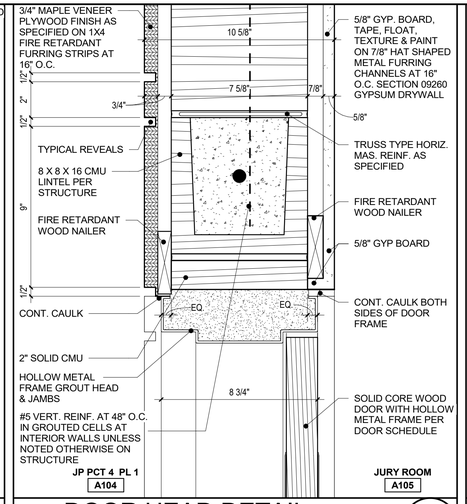
WINDOW HEAD, JAMB & SILL DETAILS

A6.7



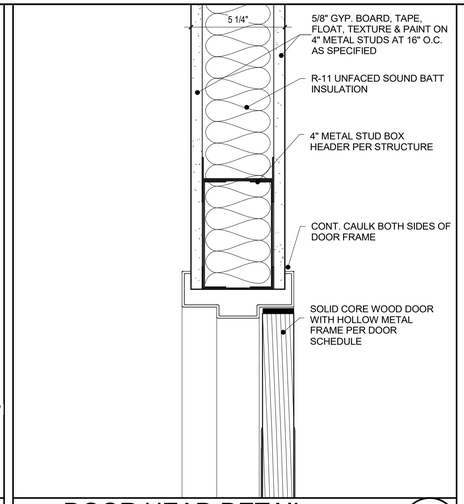
CASED OPENING HEAD DETAIL 13

3" = 1'-0"



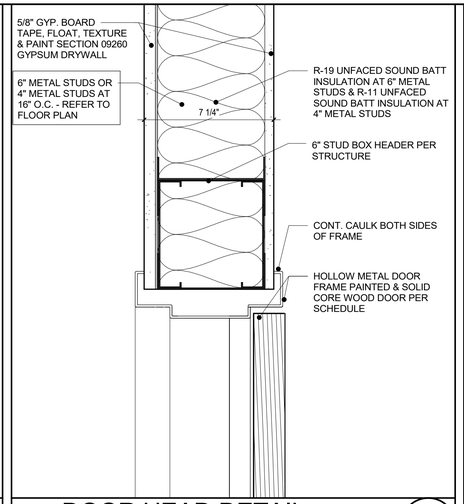
DOOR HEAD DETAIL 10

3" = 1'-0"



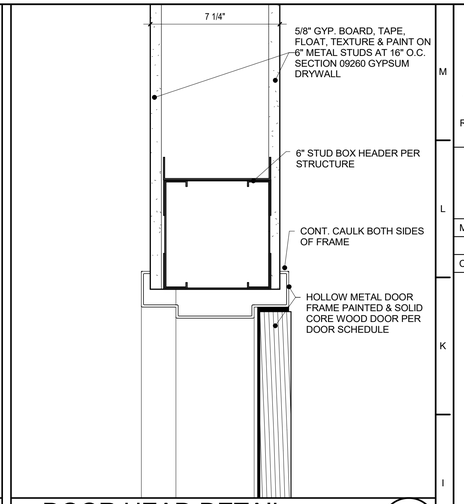
DOOR HEAD DETAIL 7

3" = 1'-0"



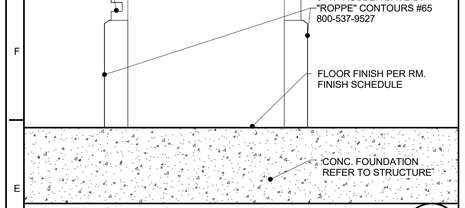
DOOR HEAD DETAIL 4

3" = 1'-0"



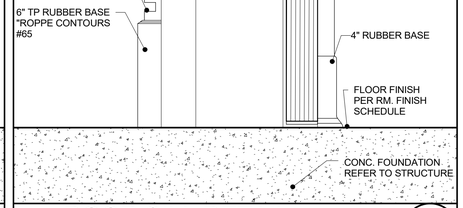
DOOR HEAD DETAIL 1

3" = 1'-0"



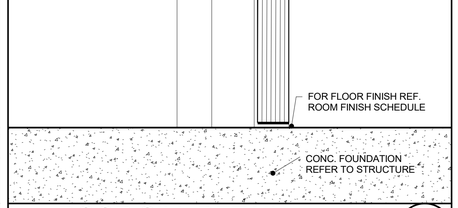
CASED OPENING SILL DETAIL 14

3" = 1'-0"



DOOR SILL DETAIL 11

3" = 1'-0"



DOOR SILL DETAIL 8

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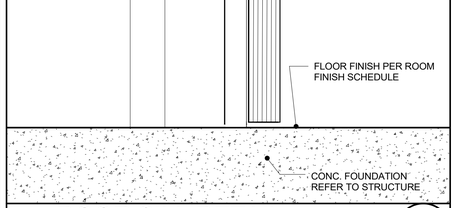

DOOR SILL DETAIL 5

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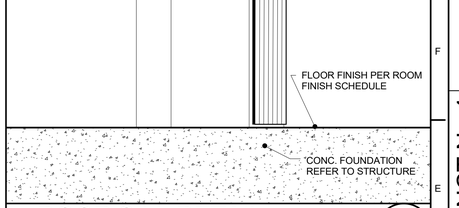

DOOR SILL DETAIL 2

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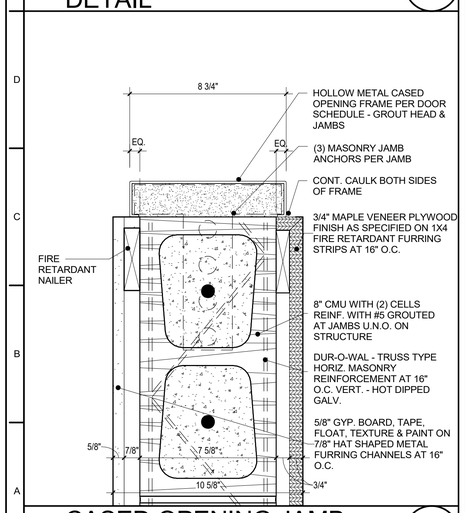

CASED OPENING JAMB DETAIL 15

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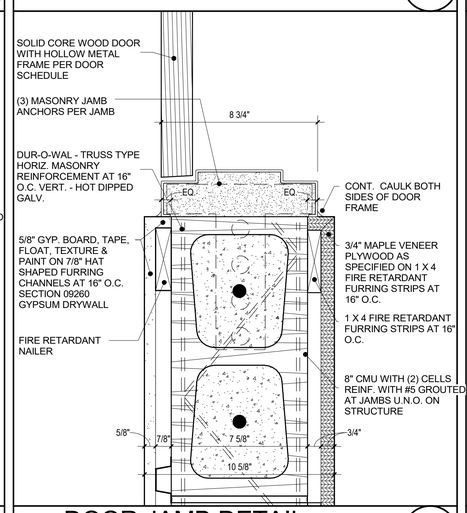

DOOR JAMB DETAIL 12

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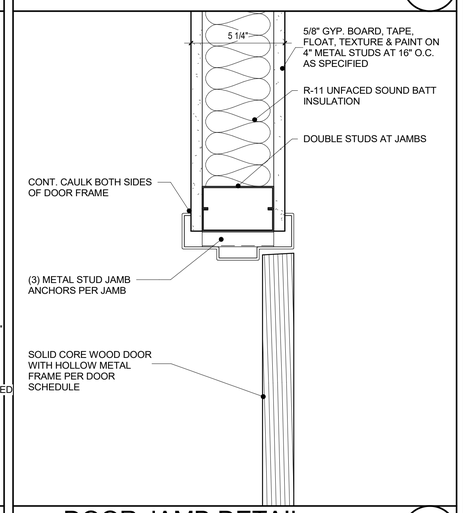

DOOR JAMB DETAIL 9

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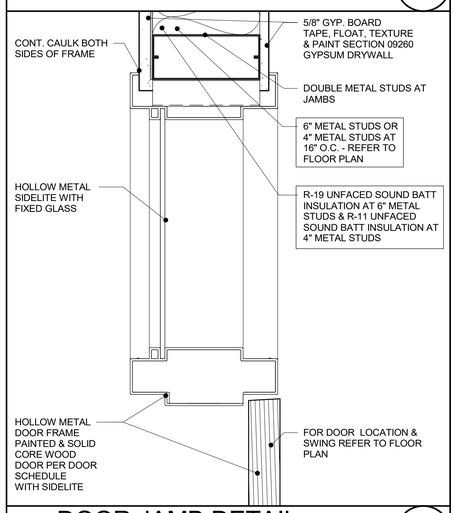

DOOR JAMB DETAIL 6

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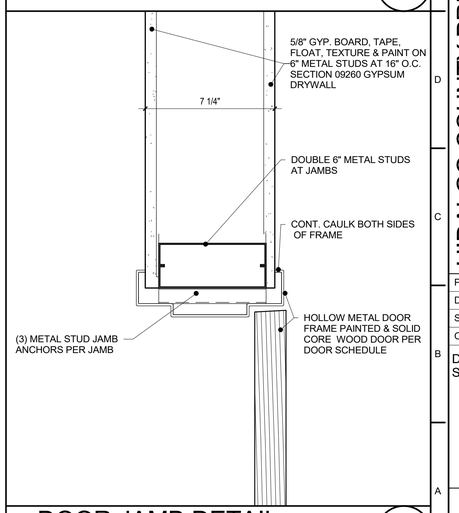

DOOR JAMB DETAIL 3

3" = 1'-0"

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CONSULTANTS:

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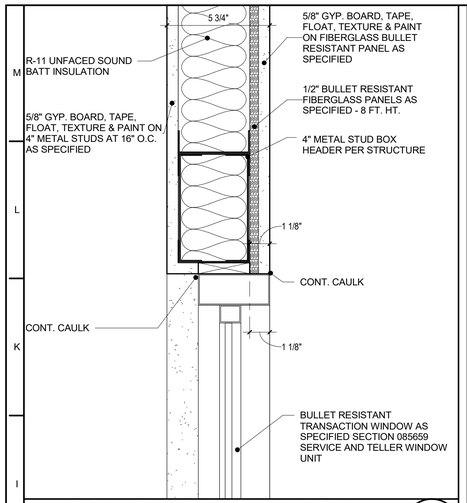
DOOR HEAD, JAMB & SILL DETAILS

A6.8



TRANSACTION WINDOW HEAD DETAIL 13

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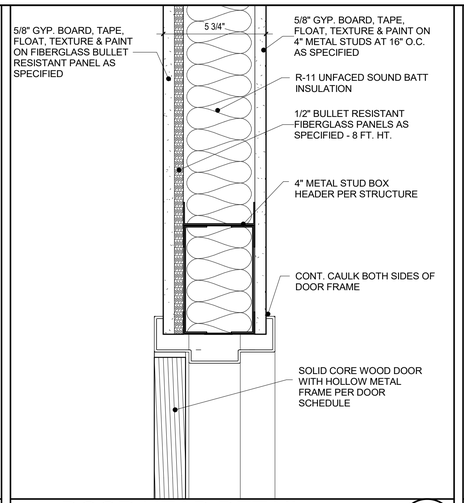

DOOR HEAD DETAIL 10

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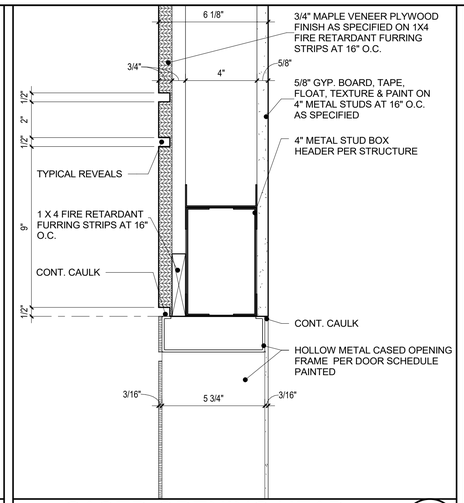

CASED OPENING HEAD DETAIL 7

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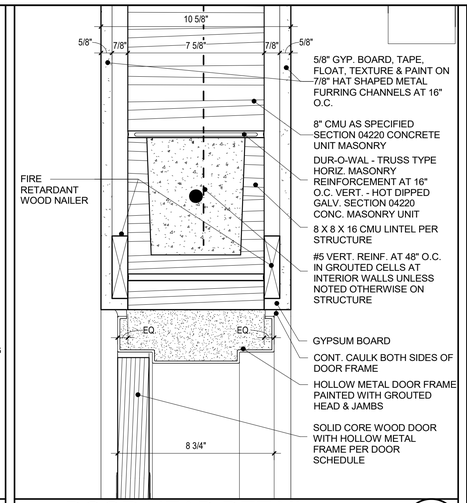
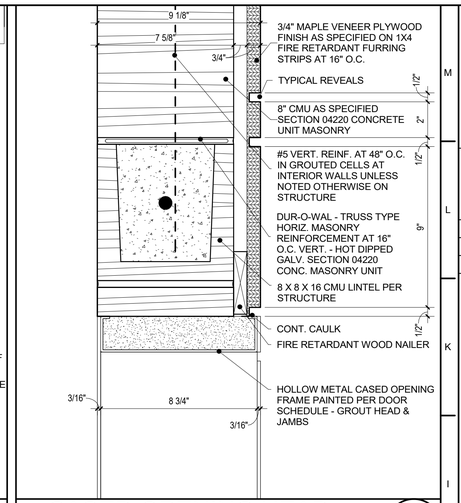


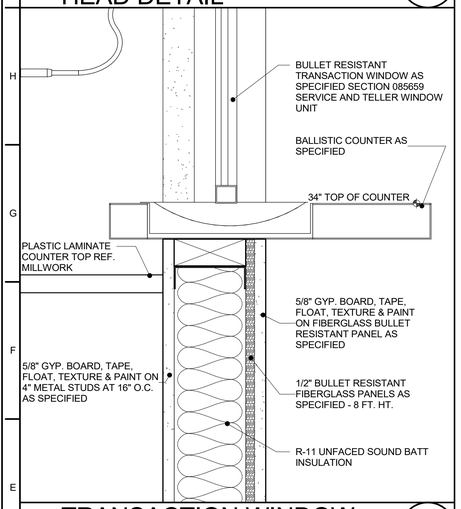
DOOR HEAD DETAIL 4

3" = 1'-0"



CASED OPENING HEAD DETAIL 1

3" = 1'-0"



TRANSACTION WINDOW SILL DETAIL 14

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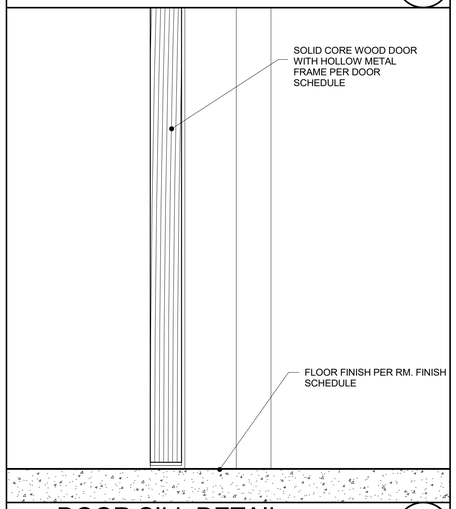
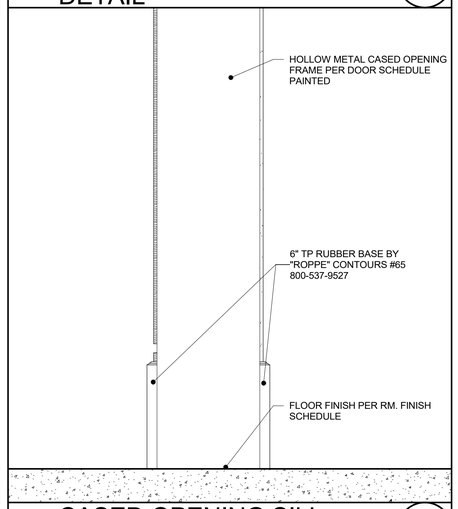


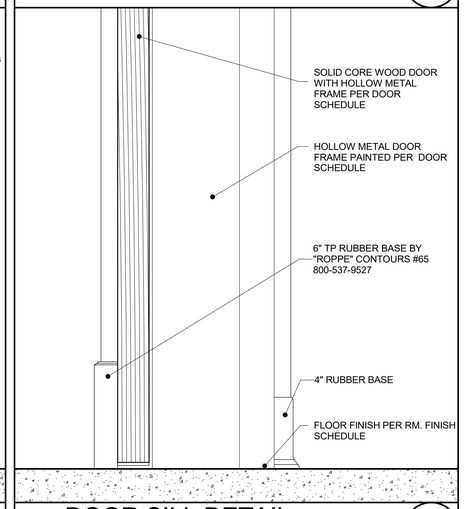
DOOR SILL DETAIL 11

3" = 1'-0"



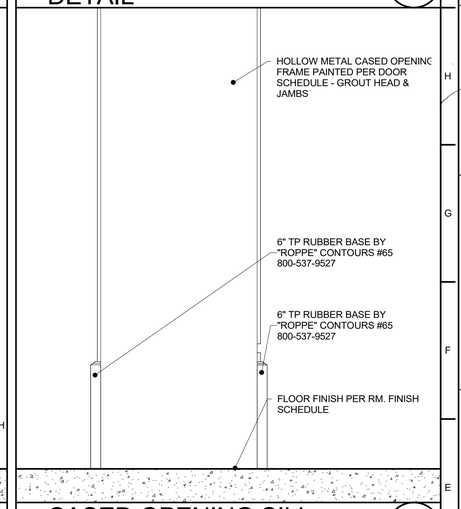
CASED OPENING SILL DETAIL 8

3" = 1'-0"



DOOR SILL DETAIL 5

3" = 1'-0"



CASED OPENING SILL DETAIL 2

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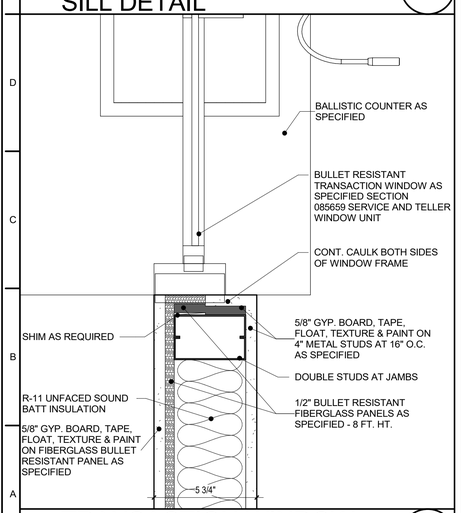

TRANSACTION WINDOW JAMB DETAIL 15

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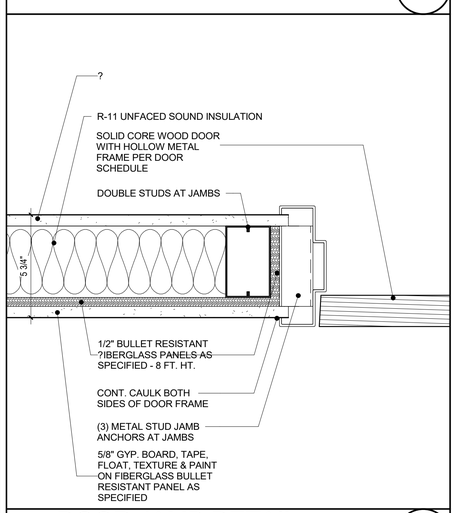

DOOR JAMB DETAIL 12

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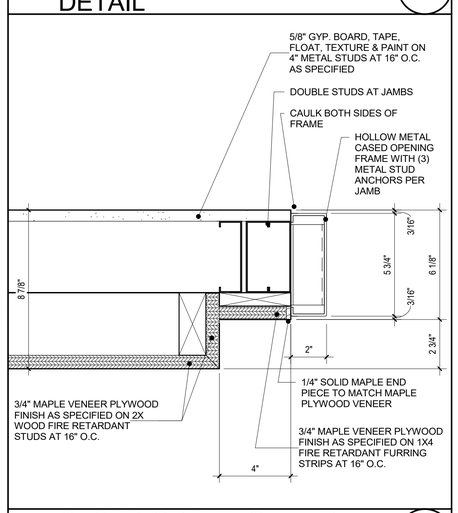
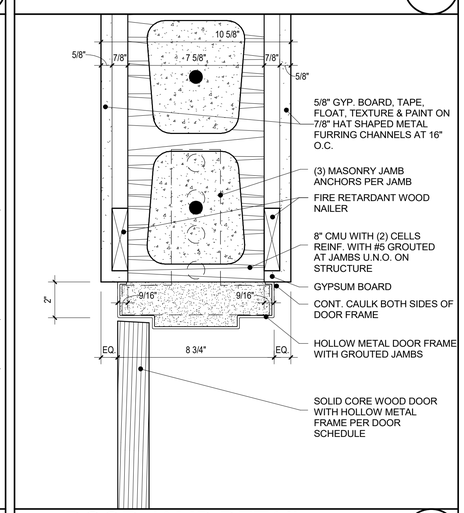


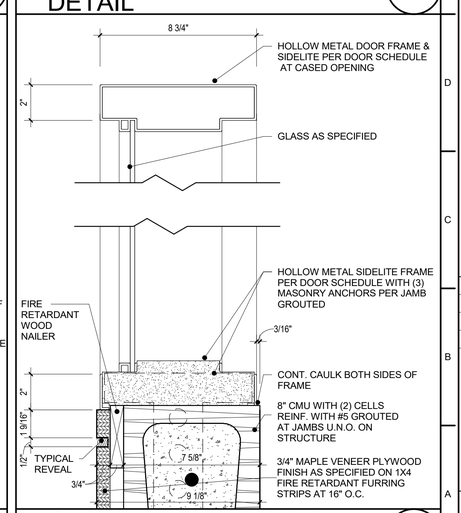
CASED OPENING JAMB DETAIL 9

3" = 1'-0"



DOOR JAMB DETAIL 6

3" = 1'-0"



CASED OPENING JAMB DETAIL 3

3" = 1'-0"

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CONSULTANTS:

REGISTERED ARCHITECT MICHAEL E. ALLEX 15101 STATE OF TEXAS

02.05.2021

NO.	DATE	REVISIONS DESCRIPTION

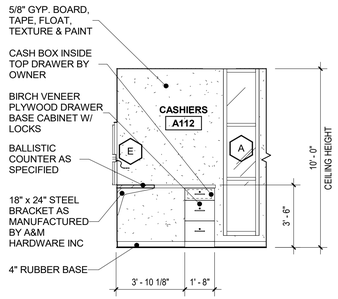
HIDALGO COUNTY PRECINCT No.4
NEW JUSTICE CENTER

HIDALGO COUNTY, TEXAS
EDINBURG, TEXAS 78542
1212 SOUTH 25TH AVENUE,

PROJECT NO: 2018.19
DATE: 2/5/2021 11:34:19 AM
STARTING DATE:
CK BY: Checker DWN BY: C.A.

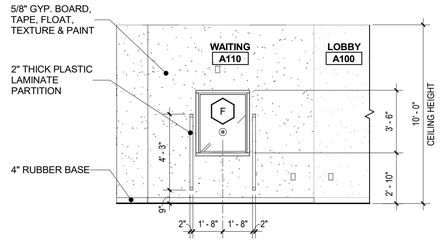
DOOR HEAD, SILL & JAMB DETAILS

A6.9



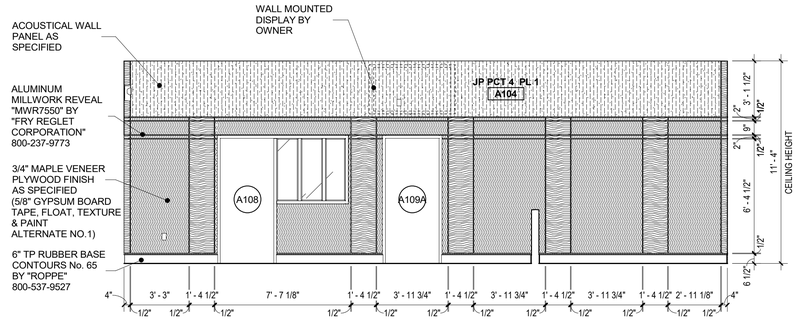
CASHIERS A112 - SOUTH INT. ELEV.

1/4" = 1'-0" 12



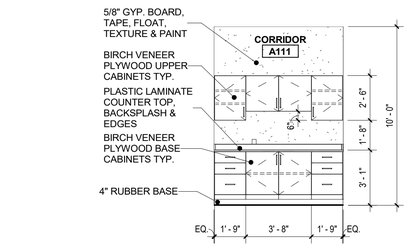
WAITING A110 - NORTH INT. ELEV.

1/4" = 1'-0" 8



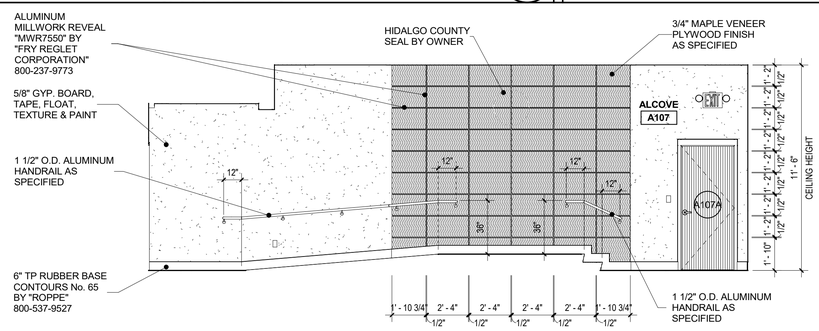
JP PCT 4 PL 1 A104 - EAST INT. ELEV.

1/4" = 1'-0" 4



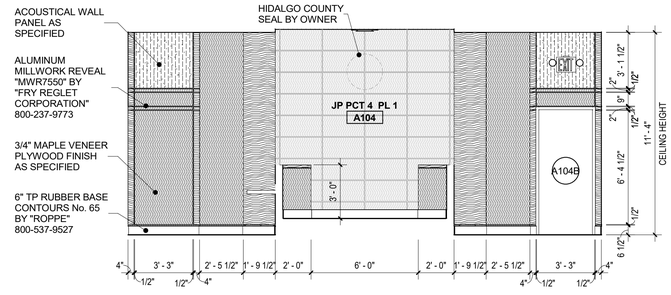
CASHIERS A112 - EAST INT. ELEV.

1/4" = 1'-0" 11



ALCOVE A107 - NORTH INT. ELEV.

1/4" = 1'-0" 7

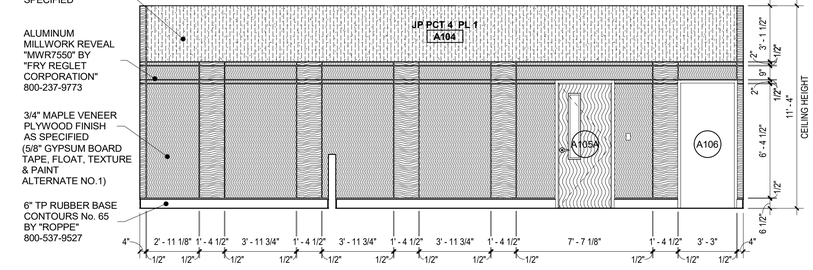


JP PCT 4 PL 1 A104 - NORTH INT. ELEV.

1/4" = 1'-0" 3

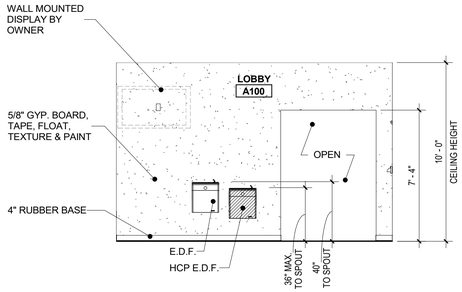
CORRIDOR A111 - WEST INT. ELEV.

1/4" = 1'-0" 10



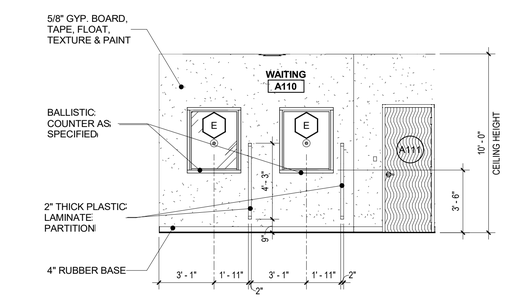
JP PCT 4 PL 1 A104 - WEST INT. ELEV.

1/4" = 1'-0" 6



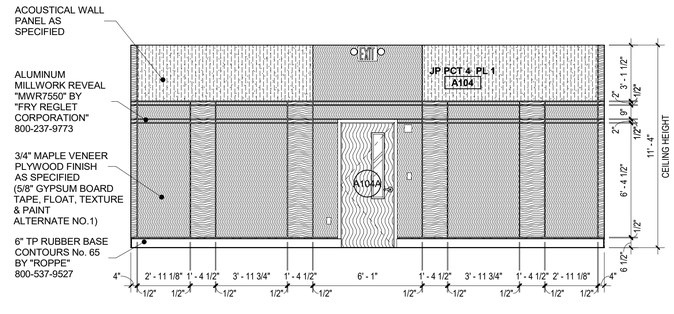
LOBBY A100 - EAST INT. ELEV.

1/4" = 1'-0" 2



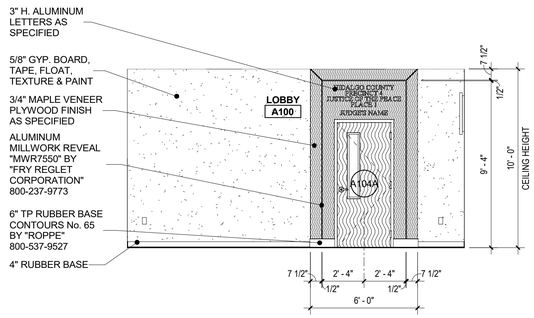
WAITING A110 - WEST INT. ELEV.

1/4" = 1'-0" 9



JP PCT 4 PL 1 A104 - SOUTH INT. ELEV.

1/4" = 1'-0" 5



LOBBY A100 - NORTH INT. ELEV.

1/4" = 1'-0" 1

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CONSULTANTS:

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02.05.2021

NO.	DATE	REVISIONS DESCRIPTION

HIDALGO COUNTY PRECINCT No.4 NEW JUSTICE CENTER

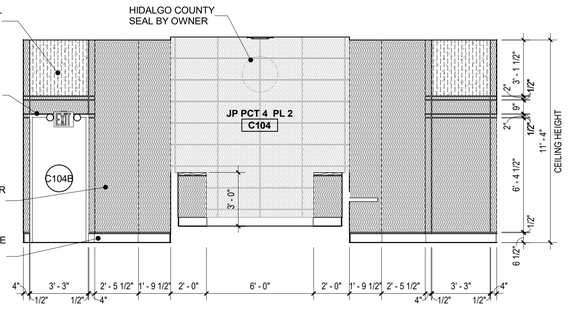
HIDALGO COUNTY, TEXAS

1212 SOUTH 25TH AVENUE, EDINBURG, TEXAS, 78542

PROJECT NO:	2018.19
DATE:	2/5/2021 11:34:26 AM
STARTING DATE:	
CK BY:Checker	DWN BY:Author

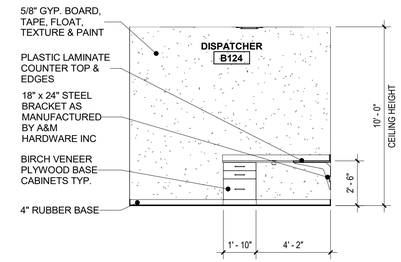
INTERIOR ELEVATIONS

A7.1



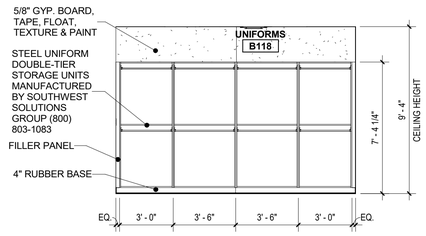
JP PCT 4 PL 2 C104 - NORTH INT. ELEV.

1/4" = 1'-0" 16



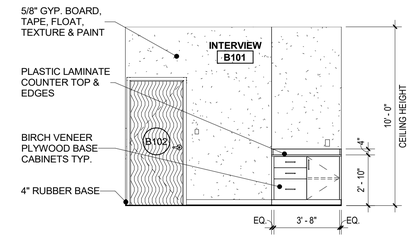
DISPATCHER B124 - SOUTH INT. ELEV.

1/4" = 1'-0" 12



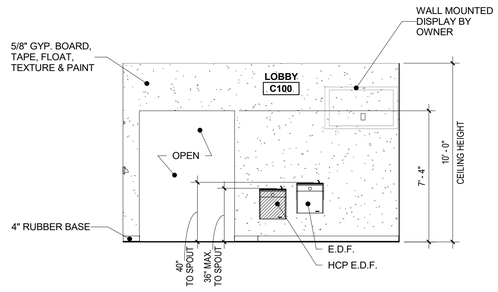
UNIFORMS B118 - NORTH INT. ELEV.

1/4" = 1'-0" 8



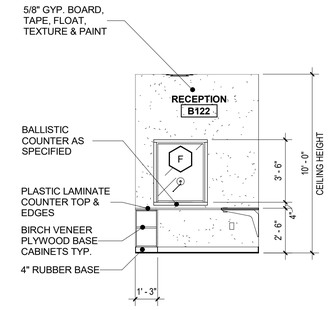
INTERVIEW B101 - NORTH INT. ELEV.

1/4" = 1'-0" 4



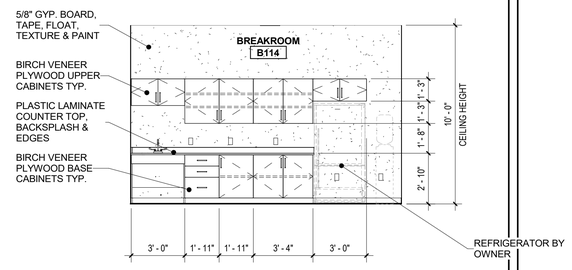
LOBBY C100 - WEST INT. ELEV.

1/4" = 1'-0" 15



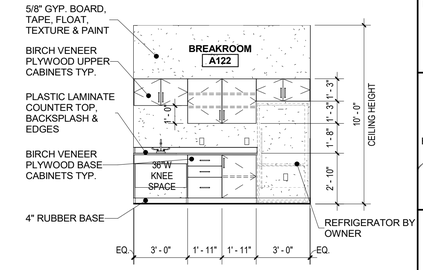
RECEPTION B122- WEST INT. ELEV.

1/4" = 1'-0" 11



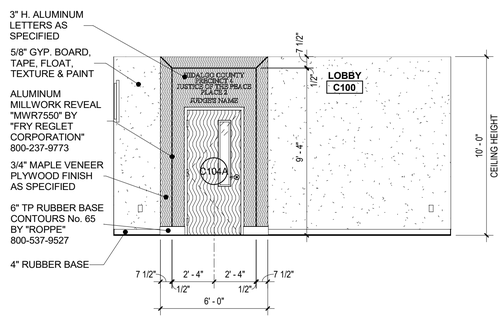
BREAKROOM B114 - SOUTH INT. ELEV.

1/4" = 1'-0" 7



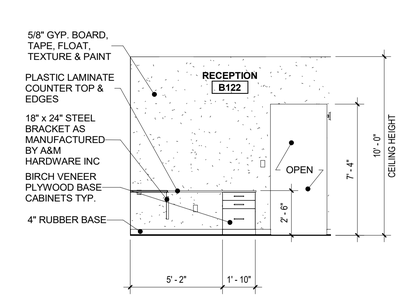
BREAKROOM A122 - EAST INT. ELEV.

1/4" = 1'-0" 3



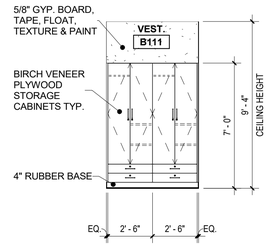
LOBBY C100 - NORTH INT. ELEV.

1/4" = 1'-0" 14



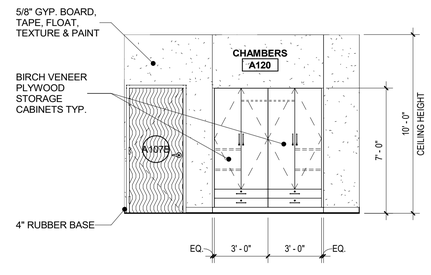
RECEPTION B122 - NORTH INT. ELEV.

1/4" = 1'-0" 10



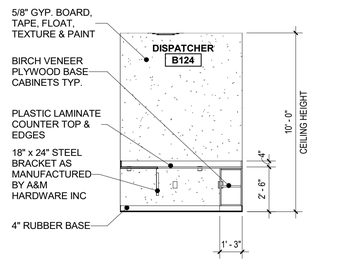
VEST. B111 - EAST INT. ELEV.

1/4" = 1'-0" 6



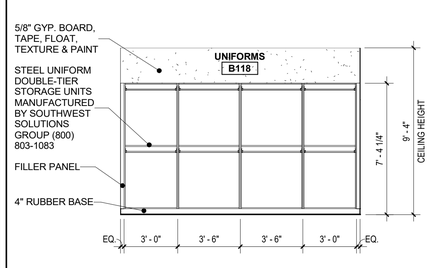
CHAMBERS A120 - EAST INT. ELEV.

1/4" = 1'-0" 2



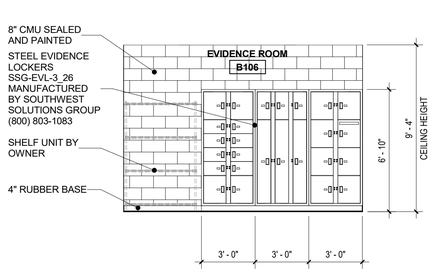
DISPATCHER B124 - WEST INT. ELEV.

1/4" = 1'-0" 13



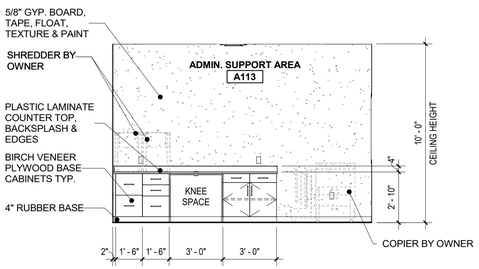
UNIFORMS B118 - SOUTH INT. ELEV.

1/4" = 1'-0" 9



EVIDENCE ROOM B106 - NORTH INT. ELEV.

1/4" = 1'-0" 5



ADMIN. SUPPORT AREA A113 - WEST INT. ELEV.

1/4" = 1'-0" 1

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CONSULTANTS:

REGISTERED ARCHITECT MICHAEL E. ALLEN 15101 STATE OF TEXAS

02.05.2021

NO.	DATE	REVISIONS DESCRIPTION

HIDALGO COUNTY PRECINCT No.4 NEW JUSTICE CENTER

HIDALGO COUNTY, TEXAS

1212 SOUTH 25TH AVENUE, EDINBURG, TEXAS 78542

PROJECT NO: 2018.19

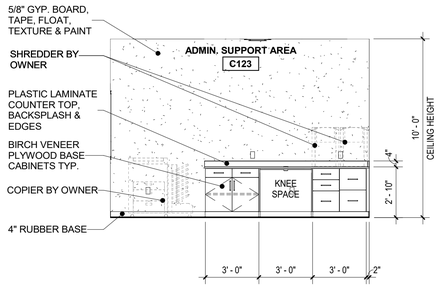
DATE: 2/5/2021 11:34:37 AM

STARTING DATE:

CK BY:Checker DWN BY:Author

INTERIOR ELEVATIONS

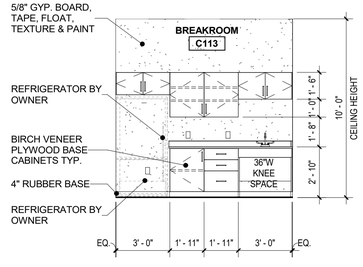
A7.2



ADMIN. SUPPORT AREA C123 - EAST INT. ELEV.

1/4" = 1'-0"

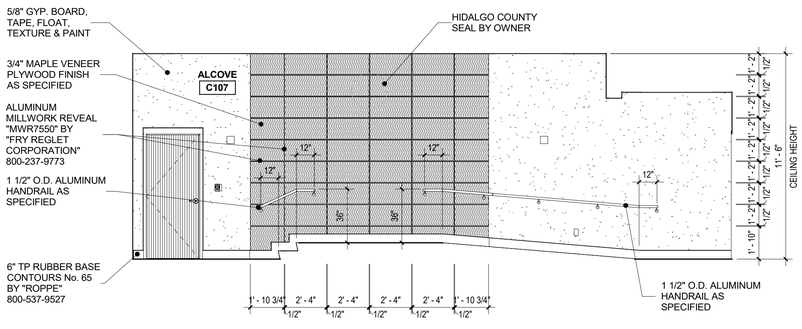
12



BREAKROOM C113 - WEST INT. ELEV.

1/4" = 1'-0"

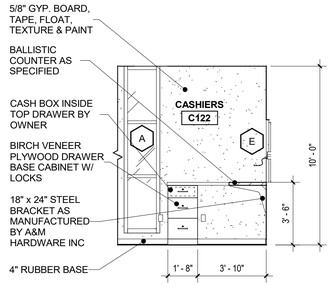
8



ALCOVE C107 - NORTH INT. ELEV.

1/4" = 1'-0"

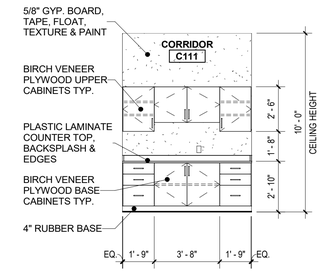
4



CASHIERS C122 - SOUTH INT. ELEV.

1/4" = 1'-0"

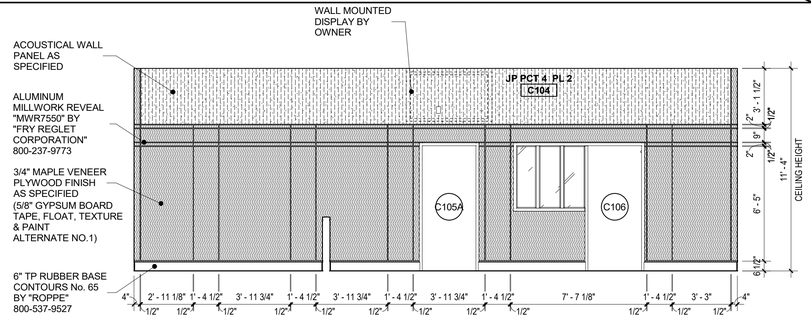
11



CORRIDOR C111 - EAST INT. ELEV.

1/4" = 1'-0"

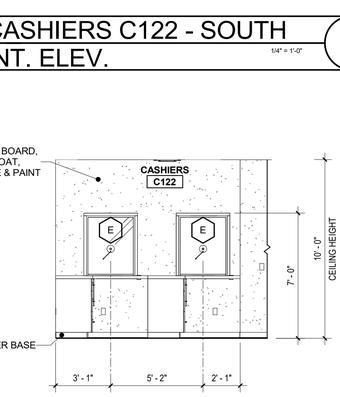
7



JP PCT 4 PL 2 C104 - WEST INT. ELEV.

1/4" = 1'-0"

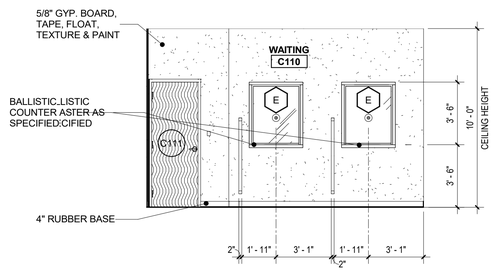
3



CASHIERS C122 - WEST INT. ELEV.

1/4" = 1'-0"

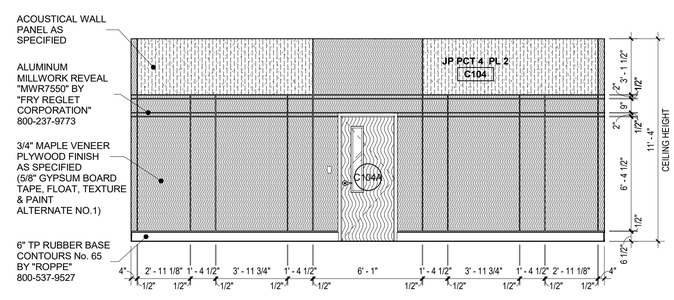
10



WAITING C110 - EAST INT. ELEV.

1/4" = 1'-0"

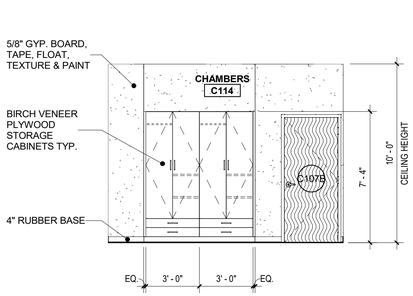
6



JP PCT 4 PL 2 C104 - SOUTH INT. ELEV.

1/4" = 1'-0"

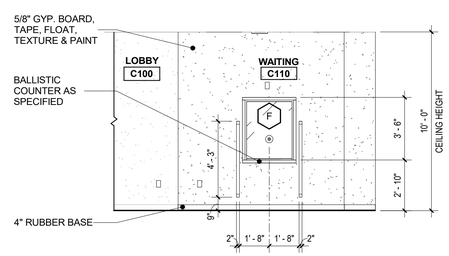
2



CHAMBERS C114 - WEST INT. ELEV.

1/4" = 1'-0"

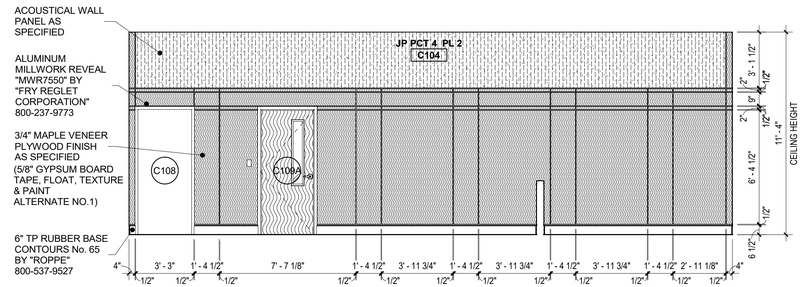
9



WAITING C110 - NORTH INT. ELEV.

1/4" = 1'-0"

5



JP PCT 4 PL 2 C104 - EAST INT. ELEV.

1/4" = 1'-0"

1

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CONSULTANTS:

REGISTERED ARCHITECT MICHAEL E. ALLEN 15101 STATE OF TEXAS

02.05.2021

NO.	DATE	REVISIONS DESCRIPTION

HIDALGO COUNTY PRECINCT No.4 NEW JUSTICE CENTER

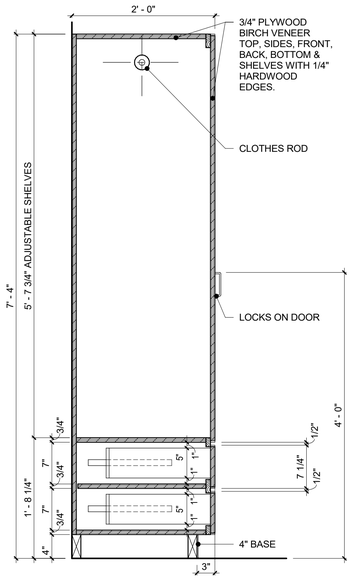
HIDALGO COUNTY, TEXAS

1212 SOUTH 25TH AVENUE, EDINBURG, TEXAS 78542

PROJECT NO:	2018.19
DATE:	2/5/2021 11:34:44 AM
STARTING DATE:	
CK BY:Checker	DWN BY:Author

INTERIOR ELEVATIONS

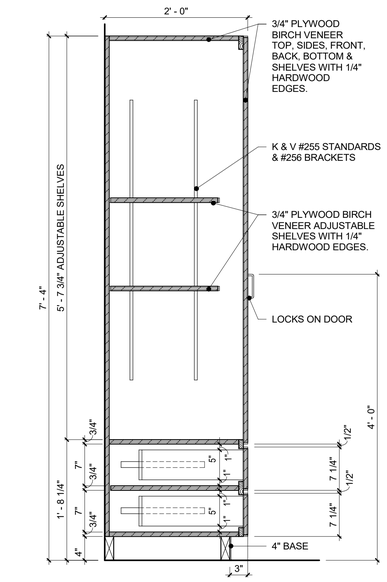
A7.3



SEC. - TEACHER CABINET

1" = 1'-0"

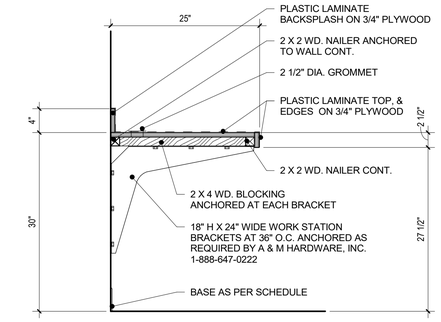
10



SEC. - TEACHER CABINET

1" = 1'-0"

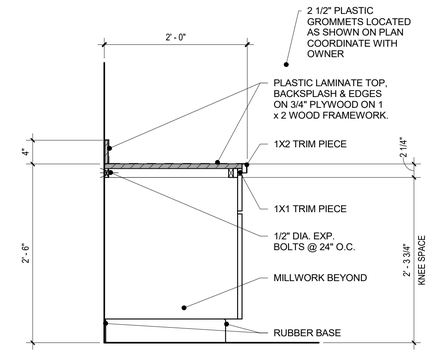
8



SEC. 30" COUNTER DETAIL

1" = 1'-0"

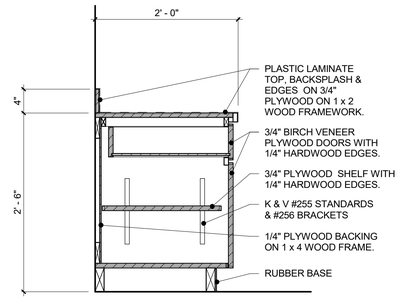
6



CAB. 30" H KNEE SPACE

1" = 1'-0"

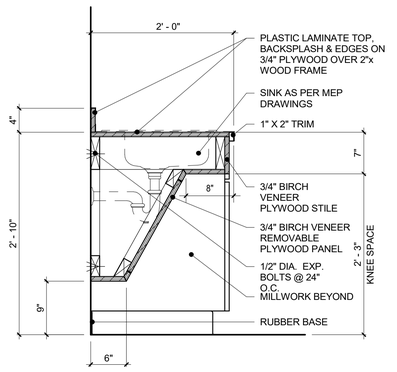
5



SEC. - BASE CAB.

1" = 1'-0"

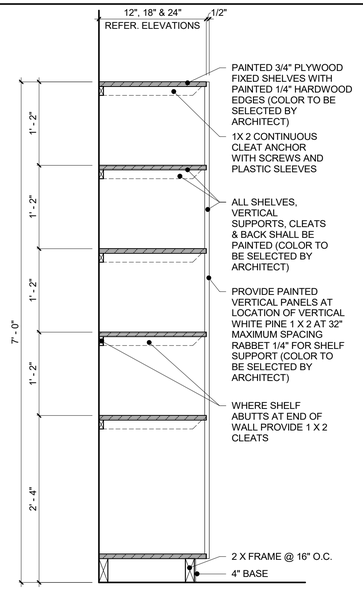
3



SEC. - SINK CAB.

1" = 1'-0"

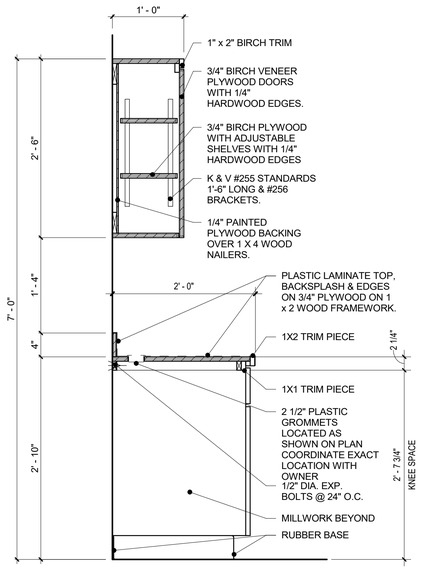
2



SEC. - 18" FIXED SHELVES

1" = 1'-0"

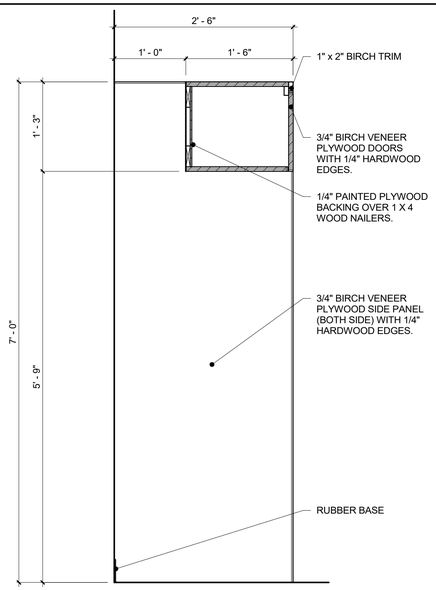
9



SEC. - KNEE SPACE / UPPER CAB.

1" = 1'-0"

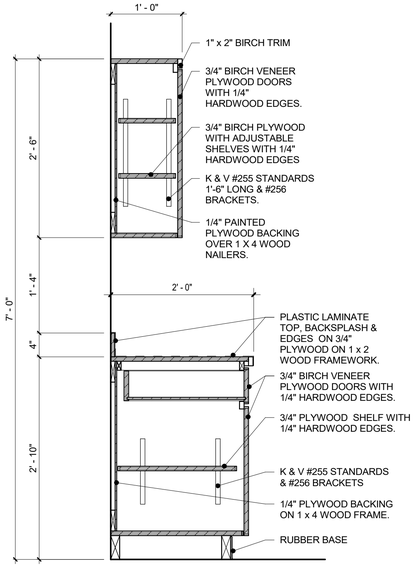
7



SEC. - REFRIGERATOR CAB.

1" = 1'-0"

4



SEC. - BASE / UPPER CAB.

1" = 1'-0"

1

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CONSULTANTS:

REGISTERED ARCHITECT MICHAEL E. ALLEN 15101 STATE OF TEXAS

02.05.2021

NO.	DATE	DESCRIPTION
		REVISIONS

HIDALGO COUNTY PRECINCT No.4 NEW JUSTICE CENTER

HIDALGO COUNTY, TEXAS

1212 SOUTH 25TH AVENUE, EDINBURG, TEXAS 78542

PROJECT NO: 2018.19
DATE: 2/5/2021 11:34:45 AM
STARTING DATE:
CK BY: Checker DWN BY: Author

MILLWORK SECTIONS

A8.1

ROOM FINISH SCHEDULE - JP PCT 4 - PL1

NUMBER	NAME	FLOOR	BASE	WALLS				CEILING		COUNTERTOP	REMARKS
				NORTH	EAST	SOUTH	WEST	MATERIAL	HEIGHT		
A100	LOBBY	F.6	B.4	W.1	W.1	W.1	W.1	C.1	10'-0"	---	
A101	ALCOVE	F.6	B.4	W.1	W.1	W.2	W.1	C.1	9'-4"	---	
A102	WOMEN	F.3	B.4	W.4	W.4	W.4	W.4	C.4	9'-4"	---	
A103	MEN	F.3	B.4	W.4	W.4	W.4	W.4	C.4	9'-4"	---	
A104	JP PCT 4 PL 1	F.2	B.3	W.3	W.3	W.3	W.3	C.1/C.3	VARIES	---	
A105	JURY ROOM	F.1	B.1	W.1	W.1	W.1	W.1	C.1	10'-0"	---	
A106	COPY	F.2	B.3	W.1	W.1	W.1	W.1	C.1	9'-4"		
A107	ALCOVE	F.2	B.3	W.1/W.3	W.1	W.1	W.1	C.1	VARIES		
A108	WAITING	F.1	B.3	W.5	W.5	W.5	W.5	C.3	9'-4"	---	
A109	ALCOVE	F.2	B.3	W.1	W.1	W.1	W.1	C.1	9'-4"		
A110	WAITING	F.6	B.4	W.1	W.1	W.1	W.1	C.1	10'-0"	---	
A111	CORRIDOR	F.1	B.1	W.1	W.1	W.1	W.1	C.1	10'-0"	---	
A112	CASHIERS	F.1	B.1	W.1	W.1	W.1	W.1	C.1	10'-0"	PLASTIC LAMINATE	
A113	ADMIN. SUPPORT AREA	F.1	B.1	W.1	W.1	W.1	W.1	C.1	10'-0"	PLASTIC LAMINATE	
A114	COURT COORD.	F.2	B.2	W.1	W.1	W.1	W.1	C.1	10'-0"	---	
A115	BIRTH RECORDS	F.1	B.1	W.1	W.1	W.1	W.1	C.1	9'-4"	---	
A116	JANITOR	F.1	B.1	W.2	W.2	W.2	W.2	C.2	9'-4"	---	
A117	CORRIDOR	F.1	B.1	W.1	---	W.1	---	C.1	10'-0"	---	
A118	TOILET	F.3	B.4	W.4	W.4	W.4	W.4	C.2	9'-4"	---	
A119	STORAGE	F.1	B.1	W.1	W.1	W.1	W.1	C.1	9'-4"	---	
A120	CHAMBERS	F.2	B.2	W.1	W.1	W.1	W.1	C.1	10'-0"	---	
A121	TOILET	F.3	B.4	W.4	W.4	W.4	W.4	C.2	9'-4"	---	
A122	BREAKROOM	F.1	B.1	W.1	W.1	W.1	W.1	C.1	10'-0"	PLASTIC LAMINATE	
A123	OFFICE	F.2	B.2	W.1	W.1	W.1	W.1	C.1	10'-0"	---	

ROOM FINISH SCHEDULE - JP PCT 4 - PL2

NUMBER	NAME	FLOOR	BASE	WALLS				CEILING		COUNTERTOP	REMARKS
				NORTH	EAST	SOUTH	WEST	MATERIAL	HEIGHT		
C100	LOBBY	F.6	B.4	W.1	W.1	W.1	W.1	C.1	10'-0"	---	
C101	ALCOVE	F.6	B.4	W.1	W.1	W.2	W.1	C.1	9'-4"	---	
C102	MEN	F.3	B.4	W.4	W.4	W.4	W.4	C.4	9'-4"	---	
C103	WOMEN	F.3	B.4	W.4	W.4	W.4	W.4	C.4	9'-4"	---	
C104	JP PCT 4 PL 2	F.2	B.3	W.3	W.3	W.3	W.3	C.1/C.3	VARIES	---	
C105	ALCOVE	F.2	B.3	W.1	W.1	W.1	W.1	C.1	9'-4"		
C106	WAITING	F.1	B.3	W.5	W.5	W.5	W.5	C.3	9'-4"	---	
C107	ALCOVE	F.2	B.3	W.1/W.3	W.1	W.1	W.1	C.1	VARIES		
C108	COPY	F.2	B.3	W.1	W.1	W.1	W.1	C.1	9'-4"		
C109	JURY ROOM	F.1	B.1	W.1	W.1	W.1	W.1	C.1	10'-0"	---	
C110	WAITING	F.6	B.4	W.1	W.1	W.1	W.1	C.1	10'-0"	---	
C111	CORRIDOR	F.1	B.1	W.1	W.1	W.1	W.1	C.1	10'-0"	---	
C112	OFFICE	F.2	B.2	W.1	W.1	W.1	W.1	C.1	10'-0"	---	
C113	BREAKROOM	F.1	B.1	W.1	W.1	W.1	W.1	C.1	10'-0"	PLASTIC LAMINATE	
C114	CHAMBERS	F.2	B.2	W.1	W.1	W.1	W.1	C.1	10'-0"	---	
C115	TOILET	F.3	B.4	W.4	W.4	W.4	W.4	C.2	9'-4"	---	
C116	CORRIDOR	F.1	B.1	W.1	W.1	W.1	---	C.1	10'-0"	---	
C117	STORAGE	F.1	B.1	W.1	W.1	W.1	W.1	C.1	9'-4"	---	
C118	TOILET	F.3	B.4	W.4	W.4	W.4	W.4	C.2	9'-4"	---	
C119	JANITOR	F.1	B.1	W.2	W.2	W.2	W.2	C.2	9'-4"	---	
C120	BIRTH RECORDS	F.1	B.1	W.1	W.1	W.1	W.1	C.1	9'-4"	---	
C121	COURT COORD.	F.2	B.2	W.1	W.1	W.1	W.1	C.1	10'-0"	---	
C122	CASHIERS	F.1	B.1	W.1	W.1	W.1	W.1	C.1	10'-0"	PLASTIC LAMINATE	
C123	ADMIN. SUPPORT AREA	F.1	B.1	W.1	W.1	W.1	W.1	C.1	10'-0"	PLASTIC LAMINATE	
C124	FIRE RISER	F.4	B.1	W.2	W.2	W.2	W.2	C.6	VARIES		

ROOM FINISH SCHEDULE - CONSTABLE PCT 4

NUMBER	NAME	FLOOR	BASE	WALLS				CEILING		COUNTERTOP	REMARKS
				NORTH	EAST	SOUTH	WEST	MATERIAL	HEIGHT		
B100	LOBBY	F.6	B.4	W.1	W.1	W.1	W.1	C.1	10'-0"	---	
B101	INTERVIEW	F.2	B.2	W.1	W.1	W.1	W.1	C.1	10'-0"	---	
B102	MDF	F.1	B.1	W.1	W.1	W.1	W.1	C.3	11'-6"	---	
B103	WORK AREA	F.2	B.2	W.1	W.1	W.1	W.1	C.1	12'-6"	---	
B104	JANITOR	F.1	B.1	W.2	W.2	W.2	W.2	C.2	9'-4"	---	
B105	SERGEANT	F.2	B.2	W.1	W.1	W.1	W.1	C.1	10'-0"	---	
B106	EVIDENCE ROOM	F.1	B.1	W.5	W.5	W.5	W.5	C.3	9'-4"		
B107	CORRIDOR	F.1	B.1	W.1	---	W.1	W.1	C.1	9'-4"	---	
B108	MEN	F.3	B.4	W.4	W.4	W.4	W.4	C.2	9'-4"	---	
B109	CONFERENCE	F.2	B.2	W.1	W.1	W.1	W.1	C.1	10'-0"	---	
B110	CONSTABLE	F.2	B.2	W.1	W.1	W.1	W.1	C.1	10'-0"	---	
B111	VEST.	F.1	B.1	W.1	W.2	W.1	W.1	C.1	9'-4"	---	
B112	TOILET	F.3	B.4	W.4	W.4	W.4	W.4	C.2	9'-4"	---	
B113	CORRIDOR	F.1	B.1	W.1	W.1	---	W.1	C.1	10'-0"	---	
B114	BREAKROOM	F.1	B.1	W.1	W.1	W.1	W.1	C.1	10'-0"	PLASTIC LAMINATE	
B115	CHIEF	F.2	B.2	W.1	W.1	W.1	W.1	C.1	10'-0"	---	
B116	CORRIDOR	F.1	B.1	W.1	W.1	W.1	---	C.1	9'-4"	---	
B117	WOMEN	F.3	B.4	W.4	W.4	W.4	W.4	C.2	9'-4"	---	
B118	UNIFORMS	F.1	B.1	W.1	W.1	W.1	W.1	C.1	9'-4"	---	
B119	SERGEANT	F.2	B.2	W.1	W.1	W.1	W.1	C.1	10'-0"	---	
B120	COPY	F.1	B.1	W.1	W.1	W.1	W.1	C.1	9'-4"	---	
B121	STORAGE	F.1	B.1	W.1	W.1	W.1	W.1	C.1	9'-4"	---	
B122	RECEPTION	F.1	B.1	W.1	W.1	W.1	W.1	C.1	10'-0"	PLASTIC LAMINATE	
B123	OFFICE	F.2	B.2	W.1	W.1	W.1	W.1	C.1	10'-0"	---	
B124	DISPATCHER	F.1	B.1	W.1	W.1	W.1	W.1	C.1	10'-0"	PLASTIC LAMINATE	
B125	ELECTRICAL	F.4	B.1	W.5	W.5	W.5	W.5	C.7	VARIES	---	

Floor Finish Schedule Key

Key	Floor Finish Schedule Key
F.1	V.C.T.
F.2	CARPET
F.3	PORCELAIN MOSAIC TILE (2" x 2")
F.4	SEALED CONCRETE
F.5	EXPOSED CONCRETE (TROWEL FINISH)
F.6	PORCELAIN TILE (12" x 12")

Base Finish Schedule Key

Key	Base Finish
B.1	4" RUBBER COVE BASE
B.2	4" RUBBER STRAIGHT BASE
B.3	6" TP RUBBER SCULPTURED BASE
B.4	PORCELAIN TILE
B.5	NONE

Wall Finish Schedule Key

Key	Wall Finish
W.1	5/8" GYPSUM BOARD TAPE, FLOAT, TEXTURE & PAINTED
W.2	5/8" (MOISTURE RESISTANT) GYPSUM BOARD TAPE, FLOAT, TEXTURE & PAINTED
W.3	WOOD PANELS ON WOOD FURRING 16" 0.C.
W.4	PORCELAIN TILE WAINSCOT UP TO 7'-4" HIGH WITH 5/8" GYPSUM BOARD (MOISTURE RESISTANT) TAPE, FLOAT, TEXTURE & PAINTED
W.5	CMU (SEALED AND PAINTED)

Ceiling Finish Schedule Key

Key	Ceiling Finish
C.1	2' x 2' LAY-IN ACOUSTICAL CEILING TILE SYSTEM
C.2	2' X 2' CERAMA GUARD (MOISTURE RESISTANT) LAY-IN CEILING TILE
C.3	5/8" GYPSUM BOARD TAPE, FLOAT, TEXTURE & PAINTED ON SUSPENDED GRID SYSTEM
C.4	5/8" (MOISTURE RESISTANT) GYPSUM BOARD TAPE, FLOAT, TEXTURE & PAINTED ON SUSPENDED GRID SYSTEM
C.5	3/4" PLASTER OVER GALVANIZED PAPER BACK METAL LATH ANCHOR TO 7/8" GALV. COLD ROLLED CHANNELS @ 16 O.C.ON 1-1/2" GALV. COLD ROLLED CHANNELS @ 48" O.C. SUSPENDED FROM STRUCTURE, WITH INTEGRAL COLOR
C.6	EXPOSED STRUCTURE PAINTED
C.7	EXPOSED STRUCTURE NOT PAINTED

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CONSULTANTS:

REGISTERED ARCHITECT MICHAEL E. ALLEN 15101 STATE OF TEXAS

02.05.2021

NO.	DATE	REVISIONS DESCRIPTION

HIDALGO COUNTY PRECINCT No.4
NEW JUSTICE CENTER

HIDALGO COUNTY, TEXAS
1212 SOUTH 25TH AVENUE, EDINBURG, TEXAS 78542

PROJECT NO: 2018.19
DATE: 2/5/2021 11:34:49 AM
STARTING DATE:
CK BY:Checker DWN BY:Author

ROOM FININSH SCHEDULE

A10.1

DOOR SCHEDULE - JP PCT 4 - PL1

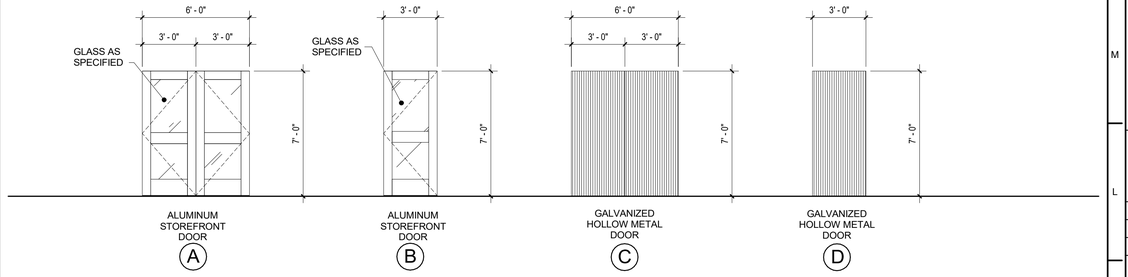
Mark	Pair or Single	DOOR DIMENSIONS			DOOR			DOOR FRAME			DOOR DETAILS			Fire Rating	Remarks
		Width	Height	Thickness	Door Type	Door Material	Door Finish	Frame Type	Frame Material	Frame Finish	Head	Sill	Jamb		
A100	Pair	3' - 0"	7' - 0"	2"	A	Aluminum	Clear Anodized	A	Aluminum	Clear Anodized	7/A6.4	9/A6.4	8/A6.4		
A102	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	H	Hollow Mtl.	Paint	4/A6.6	6/A6.6	5/A6.6		
A103	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	H	Hollow Mtl.	Paint	4/A6.6	6/A6.6	5/A6.6		
A104A	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	G	Hollow Mtl.	Paint	10/A6.4	12/A6.4	11/A6.4		
A104B	----------	----	----	----	----	----	----	K	Hollow Mtl.	Paint	7/A6.9	8/A6.9	9/A6.9		CASED OPENING
A105A	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	G	Hollow Mtl.	Paint	10/A6.8	11/A6.8	12/A6.8		
A105B	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	E	Hollow Mtl.	Paint	4/A6.8	5/A6.8	6/A6.8		
A106	----------	----	----	----	----	----	----	L	Hollow Mtl.	Paint	13/A6.8	14/A6.8	15/A6.8		CASED OPENING
A107A	Single	3' - 0"	7' - 0"	1 3/4"	D	Galv. Hollow Metal	Paint	D	Galv. Hollow Mtl.	Paint	11 & 12/A6.7	14/A6.7	13/A6.7		
A107B	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	H	Hollow Mtl.	Paint	7/A6.8	8/A6.8	9/A6.8		
A108	----------	----	----	----	----	----	----	M	Hollow Mtl.	Paint	1/A6.9	2/A6.9	3/A6.9		CASED OPENING - REF. 1,2 & 3/A6.7
A109A	Single	0"	0"	0"	----	----	----	L	Hollow Mtl.	Paint	13/A6.8	14/A6.8	15/A6.8		CASED OPENING
A109B	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	G	Hollow Mtl.	Paint	4/A6.9	5/A6.9	6/A6.9		
A111	Single	3' - 0"	7' - 0"	1 3/4"	G	Solid Core Wood	Natural	I	Hollow Mtl.	Paint	10/A6.9	11/A6.9	12/A6.9		BALLISTIC LEVEL 3 (UL)
A114	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	E	Hollow Mtl.	Paint	4/A6.8	5/A6.8	6/A6.8		
A115	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	H	Hollow Mtl.	Paint	7/A6.8	8/A6.8	9/A6.8		
A116	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	H	Hollow Mtl.	Paint	7/A6.8	8/A6.8	9/A6.8		
A117	Single	3' - 0"	7' - 0"	1 3/4"	D	Galv. Hollow Metal	Paint	D	Galv. Hollow Mtl.	Paint	11 & 12/A6.7	14/A6.7	13/A6.7		
A118	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	H	Hollow Mtl.	Paint	4/A6.6	6/A6.6	5/A6.6		
A119	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	H	Hollow Mtl.	Paint	7/A6.8	8/A6.8	9/A6.8		
A120A	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	E	Hollow Mtl.	Paint	4/A6.8	5/A6.8	6/A6.8		
A120B	Single	3' - 0"	7' - 0"	1 3/4"	D	Galv. Hollow Metal	Paint	D	Galv. Hollow Mtl.	Paint	11 & 12/A6.7	14/A6.7	13/A6.7		
A121	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	H	Hollow Mtl.	Paint	4/A6.6	6/A6.6	5/A6.6		
A122	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	E	Hollow Mtl.	Paint	4/A6.8	5/A6.8	6/A6.8		
A123	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	E	Hollow Mtl.	Paint	4/A6.8	5/A6.8	6/A6.8		

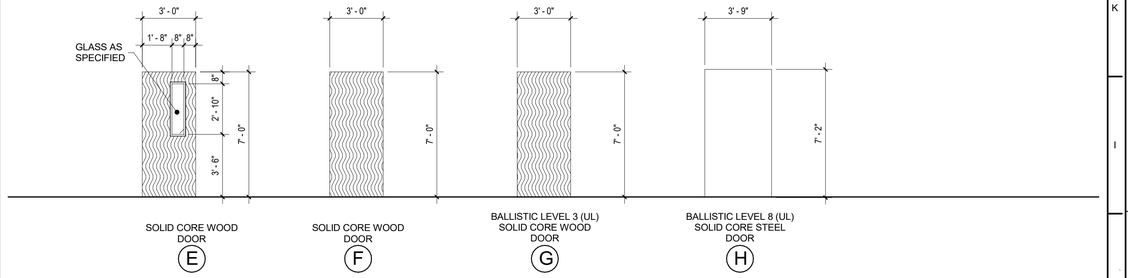
DOOR SCHEDULE - CONSTABLE PCT 4

Mark	Pair or Single	DOOR DIMENSIONS			DOOR			DOOR FRAME			DOOR DETAILS			Fire Rating	Remarks
		Width	Height	Thickness	Door Type	Door Material	Door Finish	Frame Type	Frame Material	Frame Finish	Head	Sill	Jamb		
B100	Single	3' - 0"	7' - 0"	2"	B	Aluminum	Clear Anodized	B	Aluminum	Clear Anodized	7/A6.4	9/A6.4	8/A6.4 SIM		
B101	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	E	Hollow Mtl.	Paint	4/A6.8	5/A6.8	6/A6.8		
B102	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	H	Hollow Mtl.	Paint	7/A6.8	8/A6.8	9/A6.8		
B103	Single	3' - 0"	7' - 0"	1 3/4"	G	Solid Core Wood	Natural	I	Hollow Mtl.	Paint	10/A6.9	11/A6.9	12/A6.9		BALLISTIC LEVEL 3 (UL)
B104	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	H	Hollow Mtl.	Paint	7/A6.8	8/A6.8	9/A6.8		
B105	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	F	Hollow Mtl.	Paint	4/A6.8	5/A6.8	6/A6.8		
B106	Single	3' - 9"	7' - 2"	3 1/2"	H	Steel	Paint	O	Steel	Paint	1/A6.6	3/A6.6	2/A6.6		BALLISTIC LEVEL 8 (UL)
B108	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	H	Hollow Mtl.	Paint	4/A6.6	6/A6.6	5/A6.6		
B109A	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	F	Hollow Mtl.	Paint	4/A6.8	5/A6.8	6/A6.8		
B109B	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	H	Hollow Mtl.	Paint	7/A6.8	8/A6.8	9/A6.8		
B110	Single	3' - 0"	7' - 0"	1 3/4"	E	Solid Core Wood	Natural	H	Hollow Mtl.	Paint	7/A6.8	8/A6.8	9/A6.8		
B112	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	H	Hollow Mtl.	Paint	4/A6.6	6/A6.6	5/A6.6		
B113	Single	3' - 0"	7' - 0"	1 3/4"	D	Galv. Hollow Metal	Paint	D	Galv. Hollow Mtl.	Paint	11 & 12/A6.7	14/A6.7	13/A6.7		
B114	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	E	Hollow Mtl.	Paint	4/A6.8	5/A6.8	6/A6.8		
B115	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	F	Hollow Mtl.	Paint	4/A6.8	5/A6.8	6/A6.8		
B117	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	H	Hollow Mtl.	Paint	4/A6.6	6/A6.6	5/A6.6		
B118	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	J	Hollow Mtl.	Paint	1/A6.8	2/A6.8	3/A6.8		
B119	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	F	Hollow Mtl.	Paint	4/A6.8	5/A6.8	6/A6.8		
B121	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	H	Hollow Mtl.	Paint	7/A6.8	8/A6.8	9/A6.8		
B123	Single	3' - 0"	7' - 0"	1 3/4"	E	Solid Core Wood	Natural	H	Hollow Mtl.	Paint	7/A6.8	8/A6.8	9/A6.8		
B124	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	H	Hollow Mtl.	Paint	7/A6.8	8/A6.8	9/A6.8		
B125	Pair	3' - 0"	7' - 0"	1 3/4"	C	Galv. Hollow Metal	Paint	C	Galv. Hollow Mtl.	Paint	6/A6.3	8/A6.3	7/A6.3		

DOOR SCHEDULE - JP PCT 4 - PL2

Mark	Pair or Single	DOOR DIMENSIONS			DOOR			DOOR FRAME			DOOR DETAILS			Fire Rating	Remarks
		Width	Height	Thickness	Door Type	Door Material	Door Finish	Frame Type	Frame Material	Frame Finish	Head	Sill	Jamb		
C100	Pair	3' - 0"	7' - 0"	2"	A	Aluminum	Clear Anodized	A	Aluminum	Clear Anodized	7/A6.4	9/A6.4	8/A6.4		
C102	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	H	Hollow Mtl.	Paint	4/A6.6	6/A6.6	5/A6.6		
C103	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	H	Hollow Mtl.	Paint	4/A6.6	6/A6.6	5/A6.6		
C104A	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	G	Hollow Mtl.	Paint	10/A6.4	12/A6.4	11/A6.4		
C104B	----------	----	----	----	----	----	----	K	Hollow Mtl.	Paint	7/A6.9	8/A6.9	9/A6.9		CASED OPENING
C105A	----------	----	----	----	----	----	----	L	Hollow Mtl.	Paint	13/A6.8	14/A6.8	15/A6.8		CASED OPENING
C105B	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	G	Hollow Mtl.	Paint	4/A6.9	5/A6.9	6/A6.9		
C106	----------	----	----	----	----	----	----	N	Hollow Mtl.	Paint	1/A6.9	2/A6.9	3/A6.9		CASED OPENING - REF. 1,2 & 3/A6.7
C107A	Single	3' - 0"	7' - 0"	1 3/4"	D	Galv. Hollow Metal	Paint	D	Galv. Hollow Mtl.	Paint	11 & 12/A6.7	14/A6.7	13/A6.7		
C107B	----------	3----)"	7----)"	1----1"	F	Solid Core Wood	Natural	H	Hollow Mtl.	Paint	7/A6.8	8/A6.8	9/A6.8		
C108	Single	0"	0"	0"	----	----	----	L	Hollow Mtl.	Paint	13/A6.8	14/A6.8	15/A6.8		CASED OPENING
C109A	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	G	Hollow Mtl.	Paint	10/A6.8	11/A6.8	12/A6.8		
C109B	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	E	Hollow Mtl.	Paint	4/A6.8	5/A6.8	6/A6.8		
C111	Single	3' - 0"	7' - 0"	1 3/4"	G	Solid Core Wood	Natural	I	Hollow Mtl.	Paint	10/A6.9	11/A6.9	12/A6.9		BALLISTIC LEVEL 3 (UL)
C112	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	E	Hollow Mtl.	Paint	4/A6.8	5/A6.8	6/A6.8		
C113	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	E	Hollow Mtl.	Paint	4/A6.8	5/A6.8	6/A6.8		
C114A	Single	3' - 0"	7' - 0"	1 3/4"	E	Solid Core Wood	Natural	E	Hollow Mtl.	Paint	4/A6.8	5/A6.8	6/A6.8		
C114B	Single	3' - 0"	7' - 0"	1 3/4"	D	Galv. Hollow Metal	Paint	D	Galv. Hollow Mtl.	Paint	11 & 12/A6.7	14/A6.7	13/A6.7		
C115	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	H	Hollow Mtl.	Paint	4/A6.6	6/A6.6	5/A6.6		
C116	Single	3' - 0"	7' - 0"	1 3/4"	D	Galv. Hollow Metal	Paint	D	Galv. Hollow Mtl.	Paint	11 & 12/A6.7	14/A6.7	13/A6.7		
C117	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	H	Hollow Mtl.	Paint	7/A6.8	8/A6.8	9/A6.8		
C118	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	H	Hollow Mtl.	Paint	4/A6.6	6/A6.6	5/A6.6		
C119	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	H	Hollow Mtl.	Paint	7/A6.8	8/A6.8	9/A6.8		
C120	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	H	Hollow Mtl.	Paint	7/A6.8	8/A6.8	9/A6.8		
C121	Single	3' - 0"	7' - 0"	1 3/4"	F	Solid Core Wood	Natural	E	Hollow Mtl.	Paint	4/A6.8	5/A6.8	6/A6.8		
C124	Single	3' - 0"	7' - 0"	1 3/4"	D	Galv. Hollow Metal	Paint	D	Galv. Hollow Mtl.	Paint	6/A6.3	8/A6.3	7/A6.3		





DOOR TYPE ELEVATIONS

Door Type Elevation

rofa architects
Rike • Ogden • Figueroa • Allex

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McAllen Harlingen

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CONSULTANTS:

REGISTERED ARCHITECT MICHAEL E. ALLEN 15101 STATE OF TEXAS

02.05.2021

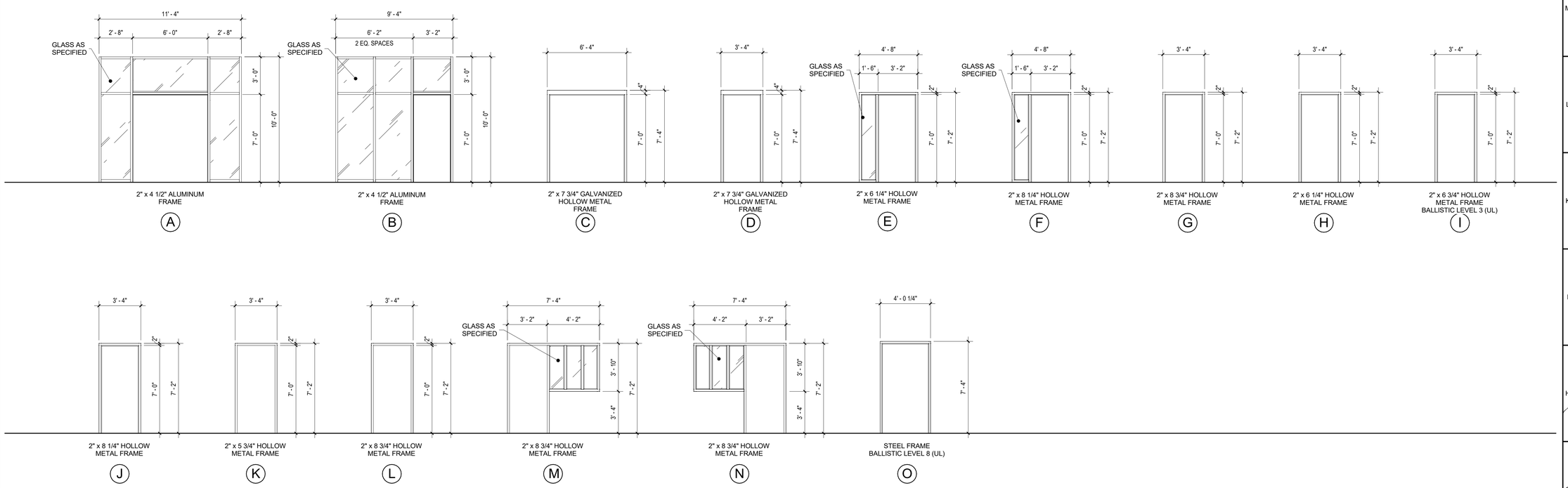
NO.	DATE	REVISIONS / DESCRIPTION

HIDALGO COUNTY PRECINCT No.4
NEW JUSTICE CENTER
HIDALGO COUNTY, TEXAS
1212 SOUTH 25TH AVENUE, EDINBURG, TEXAS 78542

PROJECT NO: 2018.19
DATE: 2/5/2021 11:34:51 AM
STARTING DATE:
CK BY: Checker DWN BY: Author

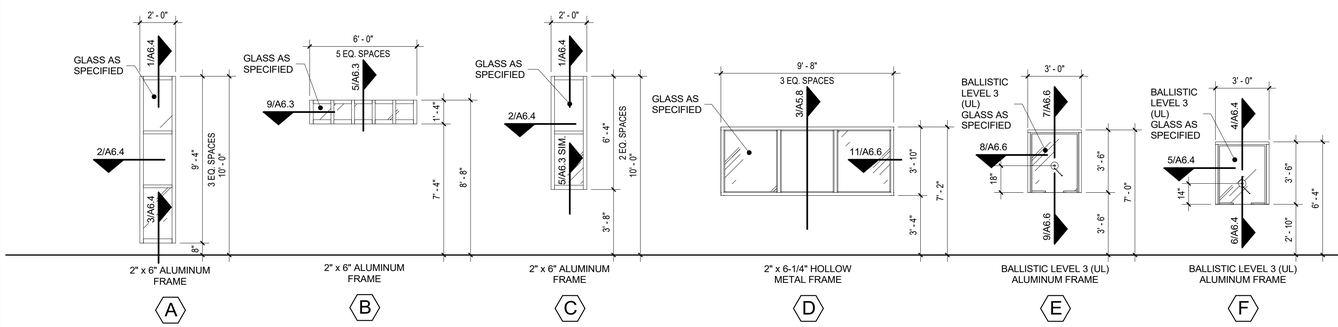
DOOR SCHEDULES AND DOOR TYPE ELEVATIONS

A10.2



DOOR FRAME ELEVATIONS

Door Frame Type Elevations



WINDOW TYPES

Window Type Elevation

rofa architects
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McAllen Harlingen

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CONSULTANTS:

REGISTERED ARCHITECT MICHAEL E ALLEN 15101 STATE OF TEXAS

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PROJECT NO:	2018.19
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STARTING DATE:	
CK BY: Checker	DWN BY: Author

DOOR FRAME ELEVATIONS AND WINDOW TYPES

A10.3

GENERAL NOTES - MECHANICAL:

(1) THE MECHANICAL CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE WORK IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES UNDER THIS SECTION OF THE CONTRACT. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE LOCAL CODES, HE/SHE SHALL INFORM THE ARCHITECT PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET APPLICABLE LOCAL CODES, AND RE-WORK SHALL BE AT CONTRACTOR'S EXPENSE.

(2) CONTRACTOR SHALL HANG AND INSTALL ALL DUCTWORK FLUSH WITH THE BUILDING STRUCTURE TO ACCOMMODATE NEW CEILINGS. CONTRACTOR SHALL COORDINATE ALL INSTALLATION WORK WITH ARCHITECTURAL AND ELECTRICAL DESIGN. ALL DUCTWORK SHALL BE MODIFIED AS NECESSARY AND REQUIRED TO FIT AROUND BUILDING STRUCTURES, ARCHITECTURAL BUILD-OUT AND ELECTRICAL CABLE TRAY INSTALLATIONS. MECHANICAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE WORK SCOPE OF OTHER TRADES AND PARTICIPATE IN COORDINATING ALL CONSTRUCTION EFFORTS.

(3) CONNECT EACH DIFFUSER TO THE MAIN DISTRIBUTION DUCTS WITH A FLEX-DUCT SECTION; CONNECTIONS SHALL BE COMPLETED IN ACCORDANCE WITH THE DETAIL. EACH FLEX-DUCT CONNECTION SHALL INCLUDE A BUTTERFLY DAMPER TO BE INSTALLED AT THE TRUNK DUCT.

(4) CONTRACTOR SHALL PROVIDE ALL DUCTWORK REQUIRED TO COMPLETE THE HVAC SYSTEM. TIE IN BRANCH DUCTS TO MAIN DUCTS WITH SHEET METAL FLANGE CONNECTION SHALL BE FASTENED WITH CRIMPED SHEET METAL STRIPS AND SEALED WITH SILICONE CAULK.

(5) CONTRACTOR SHALL SUPPLY AND INSTALL FIRE DAMPERS AND ACCESS DOORS IN THE HORIZONTAL DUCTS WHERE THEY PENETRATE FIRE WALLS & BARRIERS.

(6) ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS. CONTRACTOR SHALL REINFORCE ALL OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS. PATCH AND SEAL OPENINGS WITH 8000 PSI CEMENT GROUT. INSTALL DECORATIVE TRIM (EQUIPMENT FLANGES, FRAMING OR ESCUTCHEONS) AROUND OPENINGS IN FINISHED AREAS. COORDINATE ALL CUTTING AND PATCHING WITH THE OTHER TRADES

(7) ON ANY WORK SHOWN ON MECHANICAL DRAWINGS REQUIRING DEMOLITION OF EXISTING OR NEW BUILDING STRUCTURES AND FINISHES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT-APPROVED PATCHING MATERIALS. REPAIRS SHALL BE COMPLETED ACCORDING TO ARCHITECTURAL SPECIFICATIONS. ALL REFINISHING SHALL BE APPROVED BY THE ARCHITECT.

(8) CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING THE INSTALLATION OF THE AIR DISTRIBUTION SYSTEM SHOWN. DUCTWORK, DUCT ACCESSORIES AND CONTROLS SHOWN AND REQUIRED SHALL BE SUPPLIED AND INSTALLED. ALL INSTALLATION WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE CODES, INCLUDING NFPA 90A AND 90B.(NFPA 90A: STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS)(NFPA 90B: STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR-CONDITIONING SYSTEMS)

(9) CONTRACTOR SHALL BALANCE ALL AIR DISTRIBUTION SYSTEMS TO ACHIEVE THE AIR VOLUME REQUIREMENTS INDICATED. BALANCING SHALL INCLUDE ADJUSTMENT OF ALL MANUAL VOLUME DAMPERS, SHUTTER DAMPERS, ZONE DAMPERS (IF REQUIRED), BUTTERFLY DAMPERS AND INDIVIDUAL DIFFUSER VOLUME DAMPERS (FINAL BALANCING ONLY). CONTRACTOR SHALL SUPPLY THE ENGINEER WITH A COMPLETE BALANCING REPORT WHICH INCLUDES, VOLUME, ROOM REFERENCE AND ZONE VOLUME TOTALS.

(10) MOUNT ALL THERMOSTATS (SENSORS) 48" ABOVE THE FINISHED FLOOR LEVEL. THERMOSTATS SHOWN SHALL BE IN CONTROL OF THE ZONE SYSTEM WHICH IS SUPPLYING AIR TO THE AREA WHERE THE THERMOSTAT IS LOCATED. CONTRACTOR SHALL SUPPLY AND INSTALL ALL CONTROL VOLTAGE WIRING AND CONDUIT FOR THERMOSTAT (DDC CONTROL) INSTALLATION.

(11) CONTRACTOR SHALL INSTALL NEW REFRIGERANT PIPING FLUSH WITH THE BUILDING STRUCTURE AND MECHANICAL ROOM BOUNDARIES AS SHOWN. CONTRACTOR SHALL COORDINATE ALL INSTALLATION WORK WITH DUCTS AND ELECTRICAL CONDUIT. MECHANICAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE WORK SCOPE OF OTHER TRADES AND PARTICIPATE IN COORDINATING ALL CONSTRUCTION EFFORTS.
(12) ALL PIPING SHALL BE INSULATED AND JACKETED. REFER TO THE SPECIFICATIONS. THE CONDENSING AND ROOF TOP CONDENSER COILS ARE TO BE COATED IN ACCORDANCE WITH THE SPECIFICATIONS.

(13) PROVIDE EACH HVAC SYSTEM OF 2000 CFM & GREATER W/ DUCT SMOKE DETECTOR(S) IN COMPLIANCE WITH IBC 907.2.13.1.2 & 907.3.1 IN RETURN AIR DUCTWORK TO SHUTDOWN CONTROLS ON AIR HANDLERS AND SUPPLY FANS. SMOKE DETECTORS SHALL BE PROVIDED BY MECHANICAL & INSTALLED BY ELECTRICAL (OR REGISTERED FIRE ALARM COMPANY WHERE APPLICABLE). COORDINATE W/ EQUIPMENT MANUFACTURER & AUTHORITY HAVING JURISDICTION FOR RECOMMENDED MOUNTING LOCATION AND METHOD. COORDINATE TO PROVIDE A COMPLETE SYSTEM. PROVIDE BOTH SUPPLY AND RETURN SIDE DEVICES.

(14) PROVIDE SEVEN DAY PROGRAMMABLE THERMOSTAT, 24 HOUR SINGLE/MULTI STAGE COMMERCIAL THERMOSTAT, DUAL SET POINTS, OCCUPIED AND UNOCCUPIED PERIODS, UNIT OPTIMIZATION, AUTO HEATING/COOLING AND AUTO CHANGE OVER. SUB-BASE BACK-UP BATTERY AND TEMPORARY OVER-RIDE. 24 VAC CONTROL VOLTAGE. PROVIDE PLASTIC SEE THRU PROTECTIVE COVER WITH KEY LOCK.

(15) **FILTER INSTALLATION AND REPLACEMENT**
A. INSTALL CONSTRUCTION RETURN FILTER AT EACH RETURN GRILLE BEFORE OPERATING PERMANENT AIR HANDLERS DURING CONSTRUCTION.
B. REPLACE FILTERS AFTER COMPLETING CONSTRUCTION AND BEFORE CONDUCTING BUILDING FLUSH-OUT.
1. REPLACE CONSTRUCTION RETURN FILTERS WITH FLUSH-OUT RETURN FILTERS.
2. REPLACE SUPPLY FILTERS.

MECHANICAL SYMBOL LEGEND

CFM; TAG — A 325(2); NECK SIZE — 10"Ø(D); QUANTITY; OPPOSED BLACE DAMPER	
CONICAL DUCT SPIN TAP; FLEXIBLE DUCT; ROUND SHEET-METAL DUCT; BALANCING DAMPER	
B2 / MH107	DETAIL NUMBER; SHEET NUMBER
	PERFORATED INNER METAL LINER, WHERE INDICATED (DOUBLE WALL); HIDDEN DUCT (FOR CLARITY)
	SUPPLY AIR GRILLE
	SUPPLY AIR GRILLE-SLOT DIFFUSER
	RETURN AIR GRILLE ALL RETURN AIR DUCT DROPS TO INCLUDE A MANUAL DAMPER
T; S; O	THERMOSTAT TEMPERATURE SENSOR TEMPERATURE OVERRIDE SENSOR/SWITCH
FD; FSD	FIRE DAMPER FIRE/SMOKE DAMPER
	FLOW DIRECTION
	PIPE DROP
	PIPE RISE
	RETURN AIR DUCT RISE/DROP
	SUPPLY AIR DUCT RISE/DROP
	WALL OR FLOOR SLEEVE
	CHILLED WATER SUPPLY/RETURN PIPING
SQUARE / ROUND	SQUARE TO ROUND DUCT TRANSITION

MECHANICAL ABBREVIATIONS

A/C	AIR CONDITIONED
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
BDD	BACK DRAFT DAMPER
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CHP	CHILLED WATER PUMP
CLG	CEILING
CWP	CONDENSER WATER PUMP
CO	CLEANOUT
CT	COOLING TOWER
CU	CONDENSING UNIT
CW	COLD WATER
CL	CENTER LINE
DB	DRY BULB
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
DX	DIRECT EXPANSION
EAT	ENTERING AIR TEMPERATURE
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
ELEC	ELECTRICAL
ELEV	ELEVATION
F	DEGREES FAHRENHEIT
FC	FAN COIL
FD	FIRE DAMPER
FLEX	FLEXIBLE
FLG	FLANGE
FLR	FLOOR
FPM	FEET PER MINUTE
FT	FEET, FOOT
FS	FLOW SWITCH
GAL	GALLON
GALV	GALVANIZED
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HP	HORSEPOWER
HR	HEAT PUMP (WATER SOURCE)
HR	HOUR
HVAC	HEATING/VENTILATING/ AIR CONDITIONING
HWP	HOT WATER PUMP
HZ	HERTZ
ID	INSIDE DIAMETER
IE	INVERT ELEVATION (FLOW LINE)
IN	INCHES
INSUL	INSULATION
IN WG	INCHES OF WATER
KW	KILOWATT(S)
LAT	LEAVING AIR TEMPERATURE
LB	POUND
L	LOUVER
MAX	MAXIMUM
MBD	MANUAL BALANCING DAMPER
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MIN	MINIMUM
MS	MOTOR STARTER
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAH	OUTSIDE AIR INTAKE HOOD
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
P	PUMP
PBD	PARALLEL BLADE DAMPER
PP	PRIMARY CHILLED WATER PUMP
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSIG	POUNDS PER SQUARE INCH (GAUGE)
R	RETURN (AIR DEVICE)
RA	RETURN AIR
RE: 4M7.01	REFER TO DETAIL 4, SHEET M7.01
RET	RETURN
RH	RELATIVE HUMIDITY
RHD	RELIEF HOOD
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
S	SUPPLY (AIR DEVICE)
SA	SUPPLY AIR
SCH	SCHEDULE
SCHP	SECONDARY CHILLED WATER PUMP
SD	SMOKE DAMPER
SEC	SECOND
SF	SUPPLY FAN
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SF	SQUARE FOOT
STD	STANDARD
TEMP	TEMPERATURE
TSTAT	THERMOSTAT
TYP	TYPICAL
UF	UNDER FLOOR
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES
VEL	VELOCITY
VENT	VENTILATE
VF	VENTILATION FAN
VOL	VOLUME
VOLT	VOLTAGE
W	WIDE, WIDTH
W/	WITH
WB	WET BULB
W/O	WITHOUT

TESTING, ADJUSTING & BALANCING

A.	**Air Handlers & Roof Top Units:**	
	1.	Test Data: Include design and actual values for the following:
	a.	Total airflow rate in CFM.
	b.	Total system static pressure in inches w.c.
	c.	Discharge static pressure in inches w.c.
	d.	Outside airflow in CFM.
	e.	Return airflow in CFM.
	f.	Outside-air damper position. Damper Position shall be marked with oil-based paint marker
B.	**Fan Test:**	
	1.	Test Data: Include design and actual values for the following:
	a.	Total airflow rate in CFM.
	b.	Total system static pressure in inches w.c.
	c.	Discharge static pressure in inches w.c.
	d.	Suction static pressure in inches w.c.
C.	**Room Grilles, Registers, or Diffusers:**	
	1.	Test Data: Include design and actual values for the following:
	a.	Total airflow rate in CM.
	b.	Damper Position shall be marked with oil-based paint marker.

H.V.A.C. SYSTEM — SECTION 15500

THE WORK INCLUDES PROVIDING THE HVAC SYSTEMS, INCLUDING DUCTWORK, DIFFUSERS AND GRILLES, INSULATION, CONTROLS, AND ALL OTHER EQUIPMENT NECESSARY FOR A COMPLETE FUNCTIONING SYSTEM. HVAC SYSTEM SHALL INCLUDE BUT IS NOT LIMITED TO THE FOLLOWING:

- HEATING, VENTILATION, AND AIR CONDITIONING (HVAC) UNITS.
- SUPPLY AND RETURN DUCTWORK SYSTEMS WITH GRILLES, DIFFUSERS, FILTERS, AND DAMPERS.
- TEMPERATURE CONTROL SYSTEM INCLUDING LOW VOLTAGE WIRING AND CONDUIT.
- DUCT, PIPING, AND EQUIPMENT INSULATION, WHERE INDICATED HEREIN.
- CONTROLS AND WIRING FOR CONNECTION TO LANDLORD'S FIRE-SMOKE ALARM SYSTEM (WHERE APPLICABLE).

THE CONTRACTOR SHALL COORDINATE ALL NEW DUCTWORK INCLUDING DUCTWORK INSULATION AND REINFORCING WITH EXISTING DUCTWORK AND DUCTWORK ANGLE BRACING SUCH THAT THE NEW DUCTWORK WILL FIT WITHIN THE SPACE LIMITATIONS OF THE PROJECT.

CONDENSATE PIPING: CONDENSATE PIPING SHALL BE A MINIMUM OF 3/4" COPPER TYPE "L" PIPE. ALL CONDENSATE DRAINS SHALL BE INSULATED WITH 1/2" THICK CLOSED CELL INSULATION SIMILAR TO ARMAFLEX 2000.

THE DESIGN, SELECTION, SPACING AND APPLICATION OF HORIZONTAL PIPE HANGERS, SUPPORTS, RESTRAINTS, ANCHORS AND GUIDES SHALL BE IN ACCORDANCE WITH THE STANDARD CODE FOR PRESSURE PIPING ANSI B31.1 AND THE LATEST EDITION OF THE MANUFACTURERS' STANDARDIZATION SOCIETY STANDARDS MSS SP- 69, "PIPE HANGERS AND SUPPORTS--SELECTION AND APPLICATION".

PROVIDE PIPE COVERING PROTECTION SHIELDS AND SADDLES FOR ALL INSULATED PIPING AT THE LOCATIONS OF ALL SUPPORTS. THE PROTECTION SHIELD LENGTH AND GAUGE THICKNESS FOR USE AT EACH CLEVIS HANGER SHALL BE AS SPECIFIED FOR TYPE 40 PROTECTION SHIELDS IN THE CURRENT EDITION OF MSS SP-69. PROTECTION SHIELDS SHALL BE GALVANIZED AND SHALL BE ARRANGED TO COVER ONE-HALF OF THE CIRCUMFERENCE OF THE INSULATION AND SHALL BE MOUNTED ON THE OUTSIDE OF THE INSULATION WITH INSULATION BLOCKING BETWEEN THE PIPE AND SADDLE TO PREVENT CRUSHING OF THE INSULATION. INSULATION BLOCKING SHALL BE UPJOHN 2 POUND HIGH DENSITY MOLDED URETHANE OR SEGMENTED MACHINERY CORK DIPPED IN HOT ASPHALT VAPOR SEAL OF NOT LESS THAN THE SAME LENGTH AND CIRCUMFERENCE AS THE PIPE PROTECTION SHIELD.

ALL HANGERS, HARDWARE, RODS, CLAMPS, CHANNELS, BASE PLATES, ANGLES, BOLTS, NUTS AND OTHER FACTORY-BUILT OR SHOP FABRICATED PIPE SUPPORT DEVICES SHALL BE GALVANIZED OR CADMIUM PLATED UNLESS NOTED OTHERWISE ON THE DRAWINGS. ALL SHOP FABRICATED AND WELDED STEEL SUPPORTS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.

ALL CONCRETE INSERTS FOR HANGER RODS SHALL BE NATIONAL PIPE HANGERS CORPORATION FIGURE 606 WITH FIGURE 607, OR GRINNELL FIGURE 282, FIGURE 152, OR APPROVED EQUAL. METAL DECK CONCRETE INSERT SHALL BE F & S MANUFACTURING CORPORATION FIGURE 282, GALVANIZED FABRICATED STEEL METAL DECK CEILING BOLT, PHILLIPS RED HEAD, OR APPROVED EQUAL. HANGER RODS, INSERTS, ETC., SHALL BE SIZED AND INSTALLED AS RECOMMENDED BY THE HANGER MANUFACTURER FOR THE SERVICE INTENDED.

FIELD VERIFY THE EXACT SIZES AND LOCATIONS OF ALL EXISTING DUCTWORK AND PIPING PRIOR TO DEMOLITION OF ANY EXISTING WORK. THE DEMOLITION WORK SHALL BE COORDINATED WITH THE NEW WORK TO ASSURE PROPER LIMITS OF DEMOLITION.

WARRANTY: PROVIDE LABOR AND MATERIALS TO REPAIR OR REPLACE DEFECTIVE PARTS AND MATERIALS AS REQUIRED FOR ONE YEAR AFTER SUBSTANTIAL COMPLETION OR OWNER ACCEPTANCE OF THE COMPLETED PROJECT. PROVIDE A SEPARATE LINE ITEM DEDUCT AMOUNT ON THE PROPOSAL FORM TO DELETE WARRANTY SERVICE, AT THE OWNER'S OPTION.

DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS, AS REQUIRED. PROVIDE ALL DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE SYSTEM FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT INDICATED. THE WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES OR ORDINANCES AND SUBJECT TO INSPECTION.

COORDINATE WITH THE WORK OF OTHER SECTIONS. EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE LANDLORD, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE.

EXTRA STOCK: PROVIDE TWO SETS OF REPLACEMENT FILTERS PER EACH INSTALLED FOR ALL THE ROOFTOP UNITS, AND OTHER EQUIPMENT AND DEVICES, AND PROVIDE AN ITEMIZED LIST OF THE NUMBER, TYPE REQUIRED, AND WHERE USED. OBTAIN RECEIPT FROM OWNER THAT THESE ITEMS HAVE BEEN DELIVERED AND ACCEPTED BY THE OWNER'S REPRESENTATIVE.

DUCT DIMENSIONS: UNLESS OTHERWISE NOTED, DUCT DIMENSIONS ON DRAWING ARE SHEET METAL DIMENSIONS ON UNLINED DUCTS (INTERIOR DIMENSIONS).

SHEET METAL DUCTWORK: SHEET METAL DUCTWORK SHALL BE FABRICATED AND INSTALLED TO MEET ASHRAE AND SMACNA STANDARDS, FOR 1" W.G. PRESSURE CLASS. SHEET METAL SHALL BE GALVANIZED SHEET STEEL OF LOCK FORMING QUALITY, ASTM A-525. ALL ANGLE IRON USED FOR SUPPORT SHALL BE GALVANIZED. CONNECTIONS TO WALLS OR FLOOR SHALL BE AIR TIGHT WITH ANGLE IRON AND CAULKING. SEAL ALL DUCT SEAMS, TRANSVERSE AND LONGITUDINAL, AIR TIGHT. PROVIDE TURNING VANES AT ALL ELBOWS OR OFFSETS EXCEEDING 30°.

DUCT SHALL BE EXTERNALLY WRAPPED W/ 2" FIBERGLASS BLANKET INSULATION.

RIGID ROUND GALVANIZED DUCT SHALL BE SPIRAL OR SNAP LOCK GALVANIZED SHEETMETAL COMPLYING WITH SMACNA.

FIBERGLASS DUCT BOARD IS AN ACCEPTABLE W/ PRIOR WRITTEN OWNER PERMISSION. MINIMUM R-VALUE OF 5 REQUIRED FOR CONDITIONED SPACES AND MINIMUM R-VALUE OF 8 FOR UNCONDITIONED SPACES.

FLEXIBLE DUCT CONNECTOR: WHERE INDICATED PROVIDE U.L. LABELED 30oz. NEOPRENE COATED FIBERGLASS FABRIC DUCT CONNECTORS.

GRILLES AND DIFFUSERS: PROVIDE GRILLES, DIFFUSERS, AND DAMPERS IN SIZES, CAPACITIES, MATERIALS, AND PATTERN INDICATED ON THE DRAWINGS.

ACCESS PANELS: PROVIDE HINGED ACCESS PANELS IN DUCTWORK WHERE REQUIRED FOR ACCESS TO EQUIPMENT. PROVIDE INSULATED ACCESS DOORS IN INSULATED DUCTWORK.

PROVIDE WHERE APPLICABLE, DUCT MOUNTED SUPPLY AND/OR RETURN AIR PHOTOELECTRIC TYPE UL LISTED SMOKE DETECTORS. DETECTORS SHALL BE LISTED FOR THE AIR VELOCITIES ENCOUNTERED. PROVIDE INTERLOCK WIRING AND RELAYS FOR UNIT SHUT DOWN. ON ACTIVATION OF ANY DETECTOR, ALL HVAC UNIT FANS SHALL STOP.

TEST AND ADJUST EACH PIECE OF EQUIPMENT AND EACH SYSTEM AS REQUIRED TO ASSURE PROPER BALANCE AND OPERATION. TEST AND BALANCE SHALL BE PERFORMED BY AN INDEPENDENT NEBB OR AABC REGISTERED CONTRACTOR. ELIMINATE NOISE AND VIBRATION, AND ASSURE PROPER FUNCTION OF ALL CONTROLS, MAINTENANCE OF TEMPERATURE, AND OPERATION. BALANCE MECHANICAL SYSTEM, AND SUBMIT COMPLETED TEST

EXPOSED ROUND (SPIRAL) DUCT TO BE INTERNALLY LINED. SUPPLY DUCTWORK SHALL BE LINED W/1" INSULATION. RETURN/EXHUAST/VENTILATION DUCT TO BE LINED W/1/2" INSULATION. CONCEALED ROUND DUCT TO BE EXTERNALLY INSULATED. USING R-5 INSULATION MIN FOR CONDITIONED SPACES (WHERE PLENUM RETURN IS USED) OR R-8 INSULATION MIN FOR UNCONDITIONED SPACES.

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INDEX OF SHEETS

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MD01	MECHANICAL DETAILS

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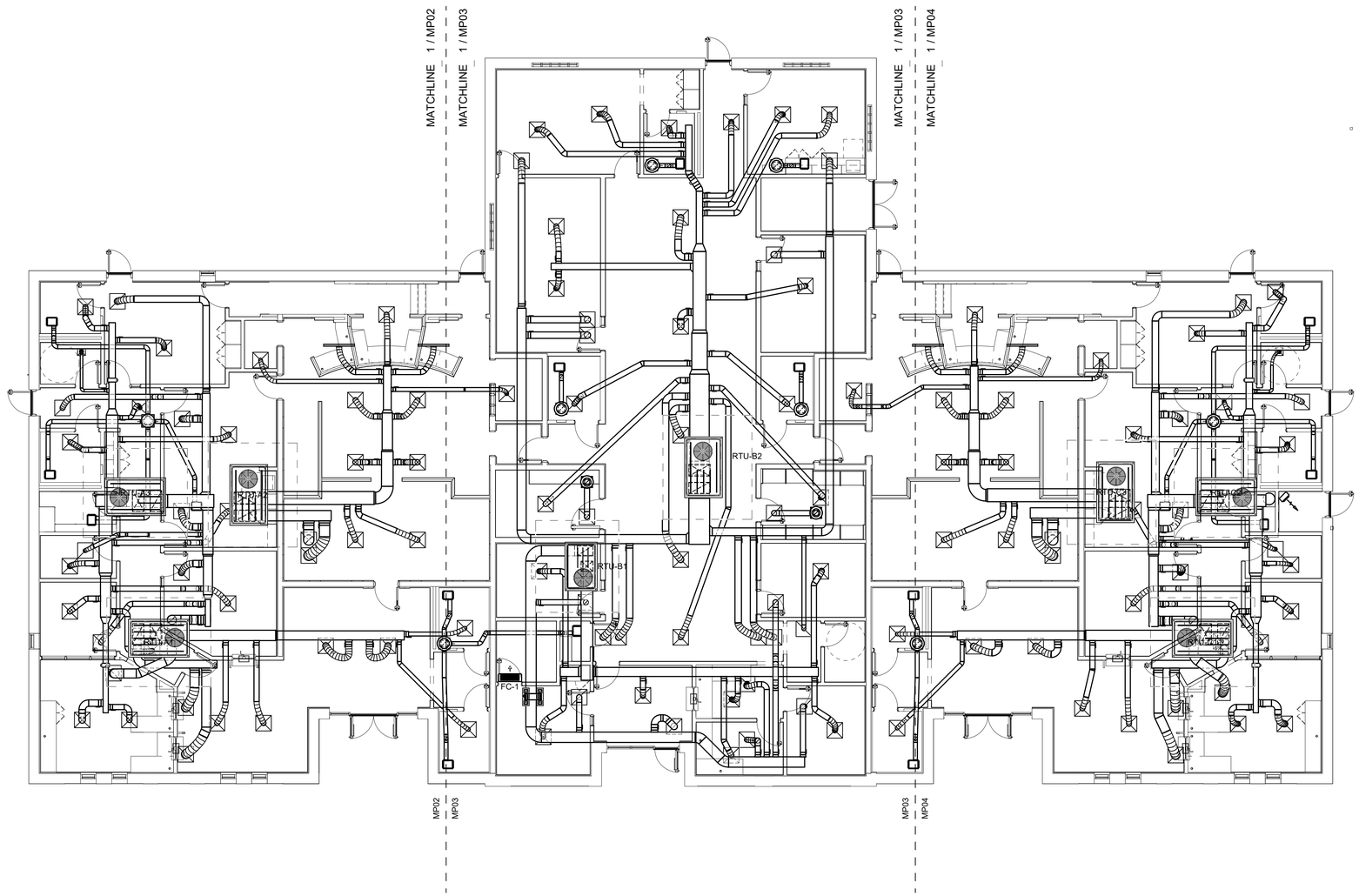
MECHANICAL NOTES AND LEGEND

MG01



MECHANICAL OVERALL FLOOR PLAN - JUSTICE CENTER

1/8" = 1'-0"

1

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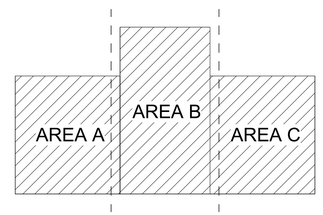

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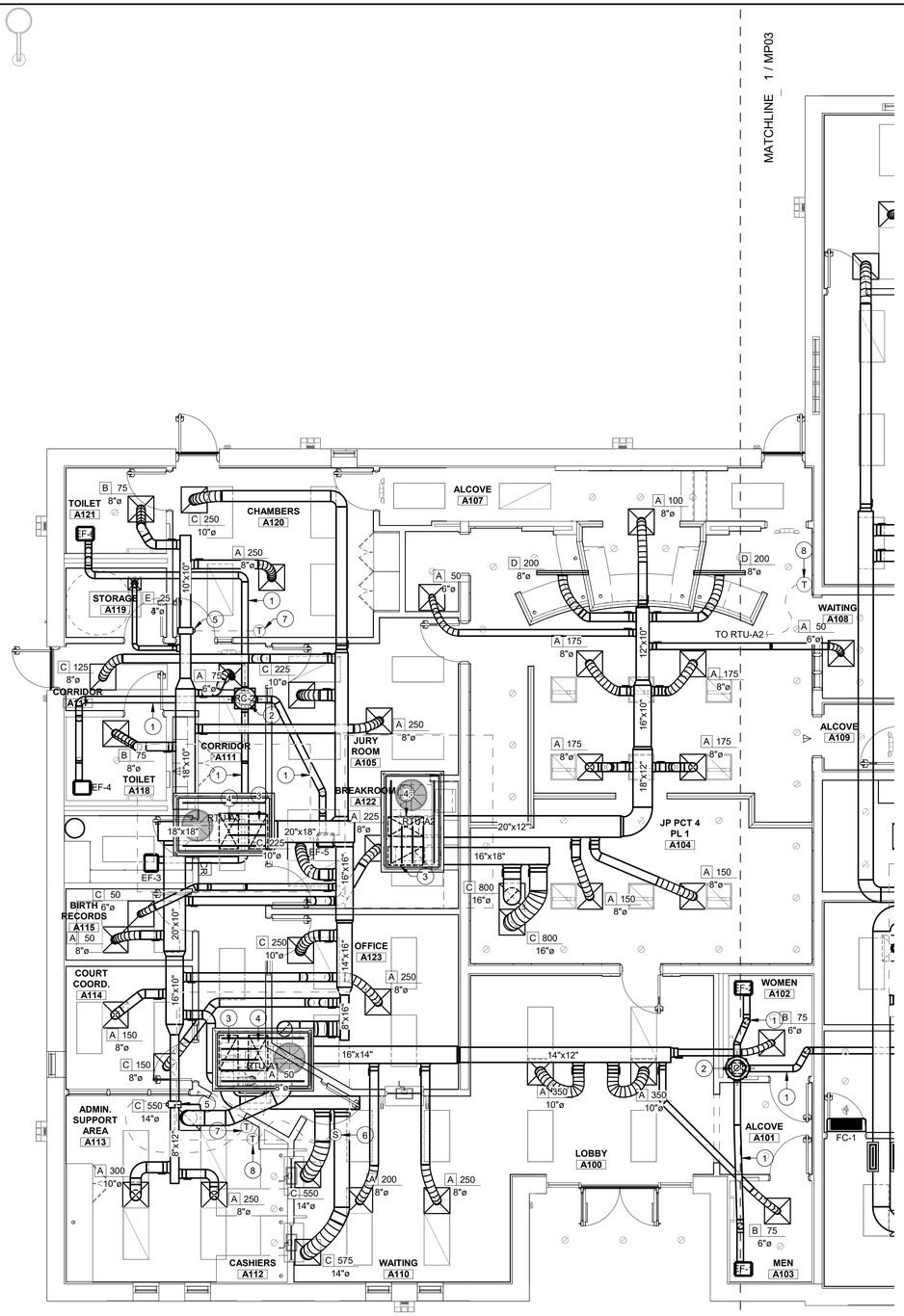
MECHANICAL FLOOR PLAN

MP01



MECHANICAL KEYED NOTES

1	ROUND EXHAUST DUCT TO ROOF CAP TRUNK DUCT.
2	10"x10" EXHAUST DUCT UP TO ROOF CAP.
3	RA DUCT UP THRU ROOF TO RESPECTIVE RTU.
4	SA DUCT UP THRU ROOF TO RESPECTIVE RTU.
5	PROVIDE W/ MOTORIZED DAMPER W/ OPEN/CLOSE OPERATION. DAMPER TO BE ACTUATED BY ZONE THERMOSTAT, MECHANICAL CONTRACTOR TO PROVIDE W/ ANY ELECTRICAL HARDWARE TO POWER DAMPER.
6	REMOTE TEMPERATURE SENSOR ON CEILING.
7	ZONE T-STAT TO MODULATE MOTORIZED DAMPER. T-STAT TO HAVE DIGITAL DISPLAY. DAMPER TO BE 100% OPEN WHEN BEYOND COOLING/HEATING SETPOINT AND 50% OPEN WHEN COOLING/HEATING SETPOINT IS REACHED OR INSIDE OF SETPOINT. MOUNT @ 48" A.F.F.
8	CONTROLS FOR A/C UNIT WILL BE BY MEANS OF A 24 VOLT 7-DAY PROGRAMMABLE THERMOSTAT WITH HEAT-OFF-COOL AND FAN ON-AUTO CAPABILITIES SHOWN ON A DIGITAL DISPLAY. MOUNT THERMOSTAT AT 48" ABOVE FINISHED FLOOR. PROVIDE WITH KEYED CLEAR PLASTIC COVER.

MECHANICAL FLOOR PLAN - JP PCT 4 PL 1

3/16" = 1'-0"

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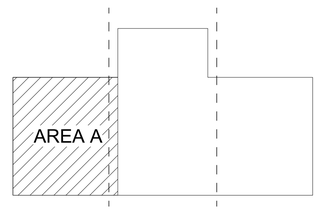

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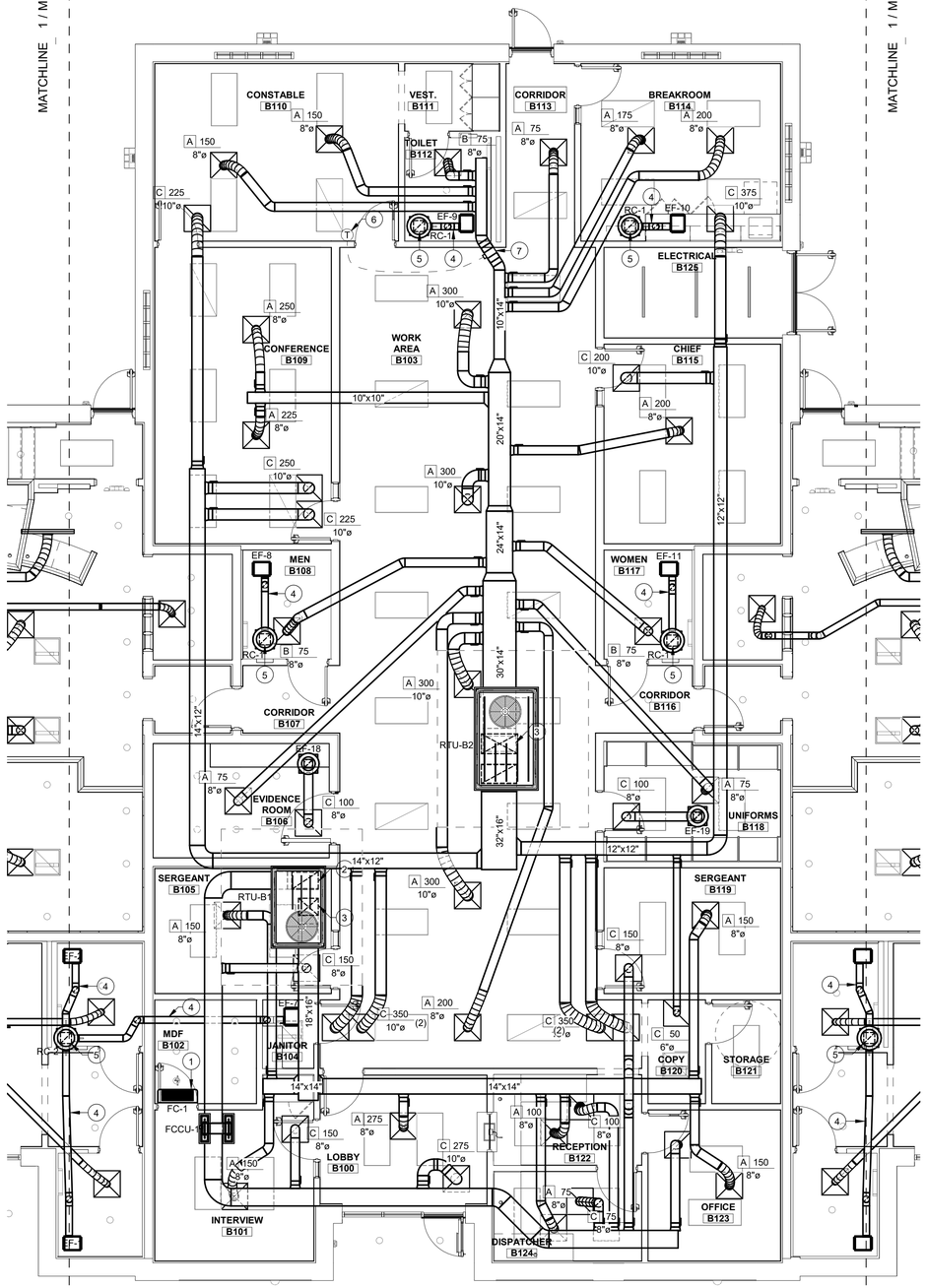
MECHANICAL JP PCT 4 PL 1

MP02



MECHANICAL KEYED NOTES

1	MOUNT AIR CONDITIONING UNIT CENTERED ABOVE DOOR. REFER TO PLUMBING PAGES FOR CONDENSATE ROUTING.
2	RA DUCT UP THRU ROOF TO RESPECTIVE RTU.
3	SA DUCT UP THRU ROOF TO RESPECTIVE RTU.
4	ROUND EXHAUST DUCT TO ROOF CAP TRUNK DUCT.
5	10"x10" EXHAUST DUCT UP TO ROOF CAP.
6	ZONE T-STAT TO MODULATE MOTORIZED DAMPER. T-STAT TO HAVE DIGITAL DISPLAY. DAMPER TO BE 100% OPEN WHEN BEYOND COOLING/HEATING SETPOINT AND 50% OPEN WHEN COOLING/HEATING SETPOINT IS REACHED OR INSIDE OF SETPOINT. MOUNT @ 48" A.F.F.
7	PROVIDE W/ MOTORIZED DAMPER W/ OPEN/CLOSE OPERATION. DAMPER TO BE ACTUATED BY ZONE THERMOSTAT, MECHANICAL CONTRACTOR TO PROVIDE W/ ANY ELECTRICAL HARDWARE TO POWER DAMPER.

MECHANICAL FLOOR PLAN - CONSTABLE PCT 4

3/16" = 1'-0"

1

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AREA B

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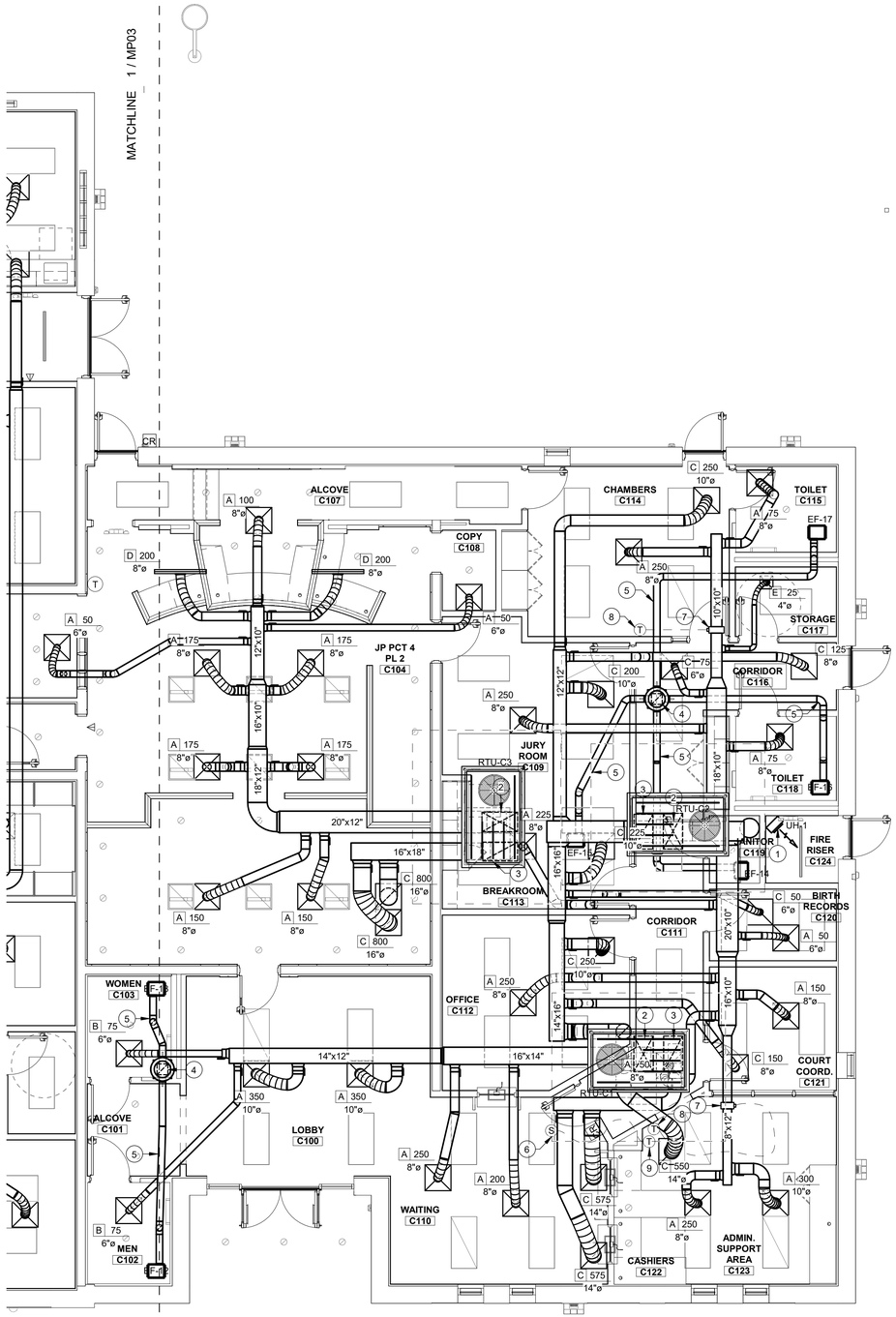
MECHANICAL CONSTABLE PCT 4

MP03



MECHANICAL KEYED NOTES

1	MOUNT UNIT HEATER RECESSED IN WALL OR SURFACE MOUNTED ON WALL, BOTTOM OF UNIT HEATER TO BE AT MINIMUM OF 6'-0" A.F.F. PROVIDE W/ ACCESSORIES AS REQUIRED FOR WALL MOUNTING APPLICATION.
2	SA DUCT UP THRU ROOF TO RESPECTIVE RTU.
3	RA DUCT UP THRU ROOF TO RESPECTIVE RTU.
4	10"x10" EXHAUST DUCT UP TO ROOF CAP.
5	ROUND EXHAUST DUCT TO ROOF CAP TRUNK DUCT.
6	REMOTE TEMPERATURE SENSOR ON CEILING.
7	PROVIDE W/ MOTORIZED DAMPER W/ OPEN/CLOSE OPERATION. DAMPER TO BE ACTUATED BY ZONE THERMOSTAT, MECHANICAL CONTRACTOR TO PROVIDE W/ ANY ELECTRICAL HARDWARE TO POWER DAMPER.
8	ZONE T-STAT TO MODULATE MOTORIZED DAMPER. T-STAT TO HAVE DIGITAL DISPLAY. DAMPER TO BE 100% OPEN WHEN BEYOND COOLING/HEATING SETPOINT AND 50% OPEN WHEN COOLING/HEATING SETPOINT IS REACHED OR INSIDE OF SETPOINT. MOUNT @ 48" A.F.F.
9	CONTROLS FOR A/C UNIT WILL BE BY MEANS OF A 24 VOLT 7-DAY PROGRAMMABLE THERMOSTAT WITH HEAT-OFF-COOL AND FAN ON-AUTO CAPABILITIES SHOWN ON A DIGITAL DISPLAY. MOUNT THERMOSTAT AT 48" ABOVE FINISHED FLOOR. PROVIDE WITH KEYED CLEAR PLASTIC COVER.

MECHANICAL FLOOR PLAN - JP PCT 4 PL 2

3/16" = 1'-0"

1

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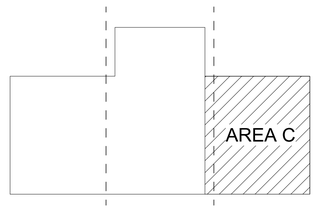

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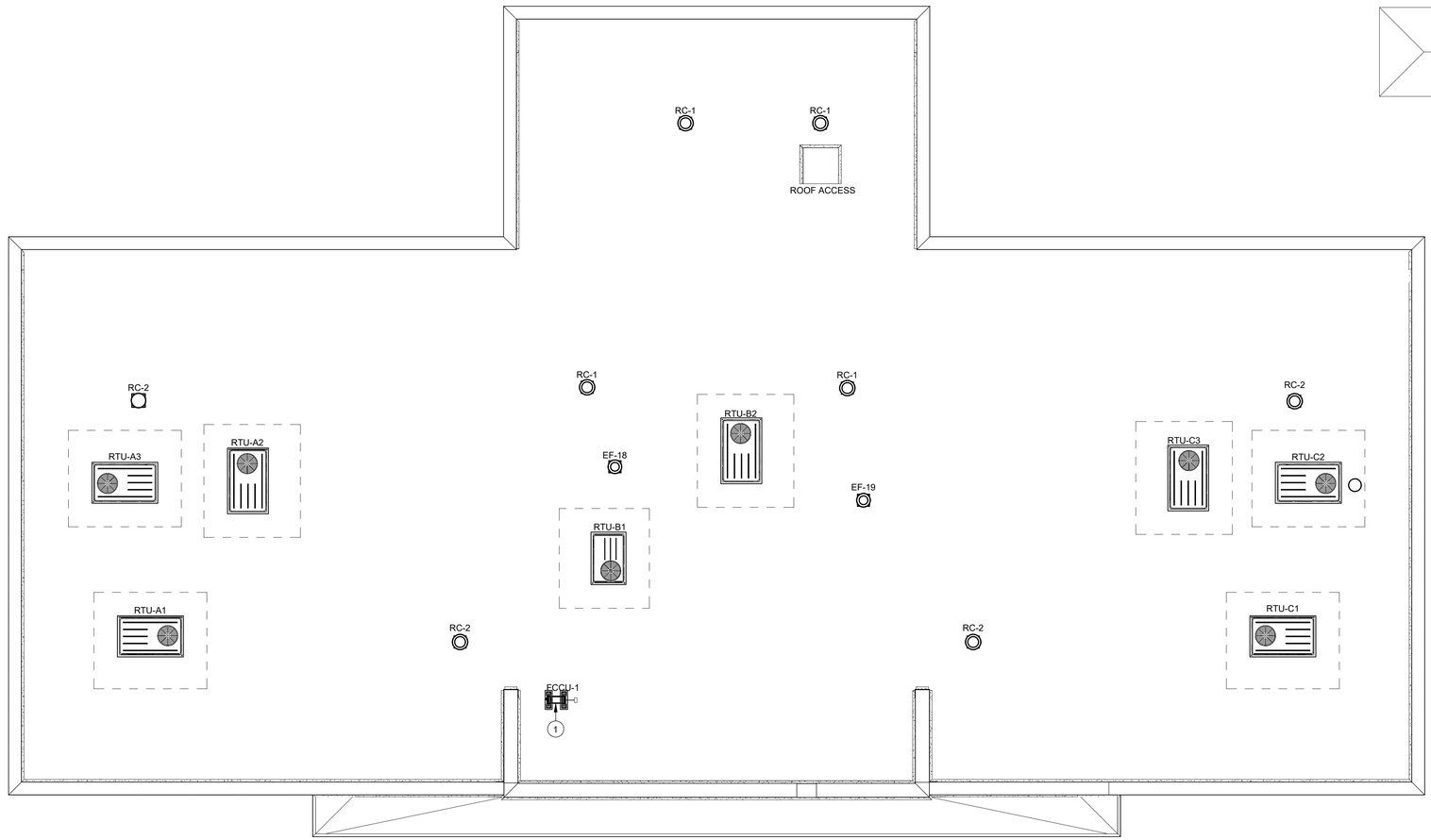
MECHANICAL JP PCT 4 PL 2

MP04

MECHANICAL KEYED NOTES	
1	PROVIDE NEW ROOF CURB FOR CONDENSING UNIT. REFER TO ARCHITECTURAL DETAILS/DECUMENTS FOR CURB TYPE & FLASHING. MACHANICALLY FASTEN UNIT TO CURB.



MECHANICAL ROOF PLAN

1/8" = 1'-0"

1

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MECHANICAL ROOF PLAN

MP05

DX PACKAGED UNIT SCHEDULE

TAG	RTU-A1,C1	RTU-A2,C3	RTU-A3,C2	RTU-B1	RTU-B2
TYPE	SNGL ZN VAV	SNGL ZN VAV	SNGL ZN VAV	SNGL ZN VAV	SNGL ZN VAV
DISCHARGE CONFIGURATION	DOWNFLOW	DOWNFLOW	DOWNFLOW	DOWNFLOW	DOWNFLOW
AREA SERVED	COURT LOBBY	COUR ROOM	COURT OFFICES	OFFICES LOBBY	LARGE OFFICES
FAN DATA					
SUPPLY CFM	1300	1600	2000	1050	3200
MIN. OUTSIDE AIR (CFM)	250	350	400	150	400
EXT. STATIC INCHES WC	0.5	0.5	0.5	0.5	0.5
MIN FAN POWER	1.0 HP - ECM	1.0 HP - ECM	2.75 HP - VFD	3/4 HP - ECM	2.75 HP - VFD
COOLING COIL					
ENTERING AIR DB/WB (°F)	78.89/65.53	79.82/66.21	79.2/65.76	77.34/64.38	77.03/64.15
LEAVING AIR DB/WB (°F)	55.46/54.06	56.48/55.26	55.51/54.69	56.4/54.1	56.3/54.6
MIN. TOTAL/SENSIBLE CAPACITY (MBH)	44.14/32.9	52.85/40.33	66.1/51.20	31.49/23.76	89.62/71.63
DESIGN RETURN AIR DB/WB (°F)	73/61	73/61	73/61	73/61	73/61
DESIGN OUTSIDE AIR DB/WB (°F)	104/81	104/81	104/81	104/81	104/81
HEATING SELECTION					
HEAT TYPE/AMBIENT DB (°F)	ELEC/33	ELEC/20	ELEC/33	ELEC/15	ELEC/33
HEAT INPUT/STAGES	9.0 KW/2	13.1 KW/2	13.5 KW/2	9 KW/2	20.3 KW/2
ENTERING/LEAVING DB (°F)	62/84	62/88.7	62/83	64/91	65/85
DETAILS AND ACCESSORIES					
MIN COOL/HEAT EFFICIENCY	17.5 SEER/-	17.2 SEER/-	15.5 IEER/-	17.5 SEER/-	14.7 IEER/-
COMPRESSOR QTY/COOL STAGE QTY	1/2	1/2	1/2	1/2	1/2
VOLTAGE/PHASE	208/3	208/3	208/3	208/3	208/3
MCA/MOCP	45/50	45/45	58/60	42/45	81/90
MOUNTING	14" TDI CURB	14" TDI CURB	14" TDI CURB	14" TDI CURB	14" TDI CURB
MANUFACTURER	TRANE	TRANE	TRANE	TRANE	TRANE
MODEL	THC047	THC067	THC074	THC037	THC102
NOMINAL UNIT SIZE TONNAGE	4.0 Tons	5.0 Tons	6.0 Tons	3.0 Tons	8.5 Tons
MAX WEIGHT	950 lbs	1000 lbs	1300 lbs	750 lbs	1300 lbs
NOTES:	ALL	ALL	ALL	ALL	ALL

NOTES:
01. PROVIDE W/ FACTORY DISCONNECT & GFI DUPLEX 120V RECEPTACLE. FACTORY PWRD.
02. PROVIDE W/ MOTORIZED OA DAMPER, DIFF ENTH ECON. & BARR RELIEF DAMPER.
03. TRANE, LENNOX, CARRIER, APPROVED AS MANUFACTURERS.
04. PROVIDE IBC 2015 COMPLIANT CURB & ATTACHMENTS FROM UNIT TO CURB & CURB TO STRUCTURE. EQUIPMENT OR CURB MANUFACTURER IS RESPONSIBLE FOR PROVIDING ENGINEERED DETAILED ANALYSIS OF:
A) ATTACHMENT OF EQUIPMENT TO CURB.
B) CURB TO STRUCTURE.
C) CURB & ATTACHMENT HARDWARE STRENGTH.
REFER TO ARCHITECTURAL & STRUCTURAL DRAWINGS FOR ROOF SUBSTRATE DETAILS. EQUIPMENT OR CURB MANUFACTURER IS ALSO RESPONSIBLE FOR PROVIDING ENGINEERED INSTALLATION DRAWINGS FOR ITEMS 'A' & 'B' LISTED ABOVE. BOTH, THE ENGINEERED ANALYSIS & THE ENGINEERED INSTALLATION DRAWINGS SHALL BE PERFORMED SPECIFICALLY FOR THIS BUILDING & PROJECT SITE & STAMPED & SEALED BY A TEXAS LICENSED ENGINEER. SUBMITTALS WILL NOT BE APPROVED UNTIL ALL DOCUMENTATION LISTED ABOVE IS PROVIDED ACCURATELY.
05. CLEARANCES & SA/RA COLLARS SHOWN ON PLANS ARE FOR SCHEDULED MAKE/MODEL. IF A SUBSTITUTION IS MADE, CONTRACTOR TO BE RESPONSIBLE FOR PROVIDING SA/RA MANUFACTURER'S REQUIREMENTS.
06. UNIT TO HAVE SINGLE ZONE VAV CONTROL & CO2 DEMAND CONTROL VENTILATION.
07. MECHANICAL CONTRACTOR TO PROVIDE ADDITIONAL BELTS & PULLEYS AS NECESSARY SUCH THAT TESTING ADJUSTING & BALANCING CAN BE PERFORMED TO THE DESIGN AIR VOLUMES SPECIFIED IN SCHEDULE ABOVE.
08. PROVIDE W/ FACTORY DUCT SMOKE DETECTOR. REFER TO MANUFACTURER'S INTALLATION INSTRUCTIONS FOR INSTRUCTIONS. TO BE MOUNTED & WIRED BY MECH CONTRACTOR.
09. PROVIDE CONDENSING COILS W/ HAIL GUARDS & FACTORY APPROVED CONDENSER E-COAT.

DX MINI-SPLIT SCHEDULE

INDOOR UNIT TAG	FC-1
SERVES	MDF ROOM
LOCATION	WALL
UNIT TYPE	COOLING ONLY
FAN PROPERTIES	
MIN SUPPLY (CFM)	400
MINIMUM O/A (CFM)	0
UNIT CAPACITIES	
ENTERING AIR (DB/WB)	74/62
TOTAL CAPACITY (BTUH)	12,000
HEATING CAPACITY (BTUH)	0
UNIT DETAILS	
VOLTAGE/PHASE	208/1
MANUFACTURER	DAIKIN
MODEL NO.	FTKN12
MAX WEIGHT (LBS)	25
CONDENSING UNIT TAG	**FCCU-1**
DETAILS	
VOLTAGE/PHASE	208/1
MCA/MOCP	13/15
AMB. AIR TEMP. (CLG°F/HTG°F)	100/33
REFRIGERANT	R-410A
COOLING MODE OPER. RANGE	15°F - 110°F
HEATING MODE OPER. RANGE	N/A
MANUFACTURER	DAIKIN
MODEL NO.	RKN12
MAX WEIGHT (LBS)	75
MIN COOL/HEAT EFFICIENCY	19 SEER/-
MIN EQUIV. LINE LENGTH (FT)	65
MIN VERTICAL RISE (FT)	45
CONTROL TYPE	WL-RC
NOTES	ALL

NOTES:
01. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE CIRCUIT POWER FROM SERVICE TO OUTDOOR UNIT & WIRE TO INDOOR UNIT.
02. WIRELESS REMOTE CONTROLLER.
03. PROVIDE INDOOR UNITS WITH MOUNTING BRACKETS IF REQUIRED.
04. SEE PLUMBING FOR CONDENSATE ROUTING.
05. CONTRACTOR TO PROVIDE ROOF CURB TO ANCHOR CONDENSER TO.
06. CONTRACTOR TO PROVIDE LINE SETS.
07. SIGHT GLASSES, FILTER DRYERS, & FIELD SUPPLIED EXPANSION VALVES ARE NOT TO BE USED ON THIS EQUIPMENT.
08. INSTALL PER MANUFACTURERS INSTRUCTIONS & PIPING RECOMMENDATIONS.

FAN SCHEDULE

TAG	EF-1,2,4,6,8,9,11-13,16,17	EF-3,7,14	EF-5,10,15	EF-18,19
SERVICE	RRs	JANITOR	BREAKROOM	EVIDENCE,UNIFRM
LOCATION	CEILING	CEILING	CEILING	ROOF
FAN PROPERTIES				
CFM	100	50	200	100
FAN RPM	949	613	838	1725
EXT SP (IN WG)	0.2	0.2	0.25	0.375
FAN POWER	80 W	12 W	43 W	1/15 HP - ECM
VOLTS/PHASE	120/1	120/1	120/1	120/1
SOUND LEVEL	1.5 SONES	0.7 SONES	1.5 SONES	4.4 SONES
MOUNTING	CEILING	CEILING	CEILING	14" TDI CURB
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL	SP-B110	SP-B70	SP-A200	G-060-VG
MAX WEIGHT	25 lbs	25 lbs	75 lbs	25 lbs
NOTES	1-5	1-3,6	1-3,7	1-3,6,8,9

NOTES:
01. PROVIDE WITH FACTORY INSTALLED DISCONNECT.
02. PROVIDE W/ FAN SPEED CONTROLLER
03. PROVIDE W/ BACKDRAFT DAMPER.
04. INTERLOCK FAN W/ LIGHTS.
05. PROVIDE W/ TIMED DELAY SHUTOFF
06. PROVIDE W/ WALL MOUNTED SWITCH LABELED "VENT FAN".
07. PROVIDE W/ WALL MOUNTED ROTARY TIMED DIAL SWITCH, 0-60 MINS, LABELED "VENT FAN".
08. PROVIDE W/ LIFTING LUGS.
09. PROVIDE IBC 2015 COMPLIANT CURB & ATTACHMENTS FROM UNIT TO CURB & CURB TO STRUCTURE. EQUIPMENT OR CURB MANUFACTURER IS RESPONSIBLE FOR PROVIDING ENGINEERED DETAIL ANALYSIS OF:
A) ATTACHMENT OF EQUIPMENT TO CURB.
B) CURB TO STRUCTURE.
C) CURB & ATTACHMENT HARDWARE STRENGTH.
REFER TO ARCHITECTURAL & STRUCTURAL DRAWINGS FOR ROOF SUBSTRATE DETAILS. EQUIPMENT OR CURB MANUFACTURER IS ALSO RESPONSIBLE FOR PROVIDING ENGINEERED INSTALLATION DRAWINGS FOR ITEMS 'A' & 'B' LISTED ABOVE. BOTH, THE ENGINEERED ANALYSIS & THE ENGINEERED INSTALLATION DRAWINGS & PROJECT SITE & STAMPED & SEALED BY A TEXAS LICENSED ENGINEER. SUBMITTALS WILL NOT BE APPROVED UNTIL ALL SHALL BE PERFORMED SPECIFICALLY FOR THIS BUILDING DOCUMENTATION LISTED ABOVE IS PROVIDED ACCURATELY.

AIR DEVICE SCHEDULE

TAG	A	B	C	D
SERVICE TYPE	SUPPLY	SUPPLY	RETURN	SUPPLY
PHYSICAL PROPERTIES				
FACE SIZE	24"x24"	24"x24"	24"x24"	two 48"x1" slots
NECK SIZE	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS
MOUNTING SURFACE	CEILING	CEILING	CEILING	CEILING
DETAILS AND ACCESSORIES				
DAMPER TYPE	OPPOSED BLADE	OPPOSED BLADE	OPPOSED BLADE	BUTTERFLY DAMPER
ACCESSORY	INSUL BACKPAN	INSUL BACKPAN	INSUL BACK PAN	INSUL PLENUM
COLOR FINISH	WHITE	WHITE	WHITE	
MATERIAL	STEEL	ALUMINUM	ALUMINUM	ALUMINUM
MANUFACTURER	PRICE	PRICE	PRICE	PRICE
MODEL	SCD	ASCD	80	ASPI
NOTES				1,2

NOTES:
01. PROVIDE W/ FACTORY FULLY INSULATED ENGINEERED PLENUM. FIELD INSULATE END CAPS. PROVIDE W/ HARDWARE FOR MOUNTING ON SURFACE INDICATED ON PLANS.
02. COORDINATE COLOR OF AIR DEVICE & FRAME W/ ARCHITECT.

ROOF CAP SCHEDULE

TAG	RC-1	RC-2
TYPE	EXHAUST	EXHAUST
SERVES	RR'S	RR'S
LOCATION	ROOF	ROOF
DETAILS AND ACCESSORIES		
MAX AIR VOL. (CFM)	250	450
NECK SIZE (INCHES)	8"	10"
MAX PRESSURE DROP (IN WG)	0.075	0.075
MAX. THROAT VELOCITY (FPM)	850	790
INCLUDED SCREEN(S)	BIRD	BIRD
HOUSING MATERIAL	ALUMINUM	ALUMINUM
ROOF CURB HEIGHT	14" TDI CURB	14" TDI CURB
MANUFACTURER	GREENHECK	GREENHECK
MODEL	GRSR	GRSR
NOTES	1,2	1,2

NOTES:
01. TO BE HIGH WIND RATED.
02. PROVIDE W/ 2015 IBC COMPLIANT ROOF CURB, ANCHOR FAN TO STRUCTURE VIA CURB IN COMPLIANCE W/ TDI.

UNIT HEATER SCHEDULE

TAG	UH-1
SERVICE/LOCATION	RISER ROOM
DETAILS & ACCESSORIES	
VOLTS/PHASE	208/1
POWER INPUT	2 KW
AMPERAGE	10
MANUFACTURER	MARKEL
MODEL	(3000 series)
NOTES	ALL

NOTES:
01. PROVIDE W/ AUTOMATICE ON/OFF VIA THERMOSTAT.
02. UNIT TO SWITCH ON WHEN SPACE TEMPERATURE REACHES 35°.
03. PROVIDE W/ DISCONNECT.
04. PROVIDE W/ SURFACE MOUNT FRAME

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REGISTERED
ENGINEER
12/10/2020

NO.	DATE	DESCRIPTION
		REVISIONS

HIDALGO COUNTY PRECINCT No. 4 NEW JUSTICE CENTER

HIDALGO COUNTY, TEXAS

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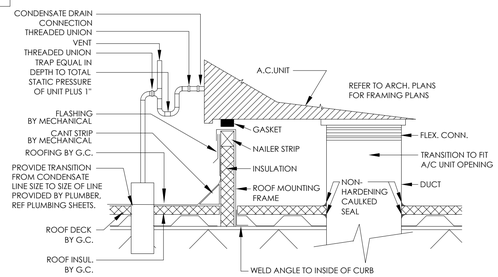
PROJECT NO: Project Number
DATE: 12/10/2020 4:51:03 PM
STARTING DATE:
CK BY: Checker | DWN BY: Author

MECHANICAL SHEDULES

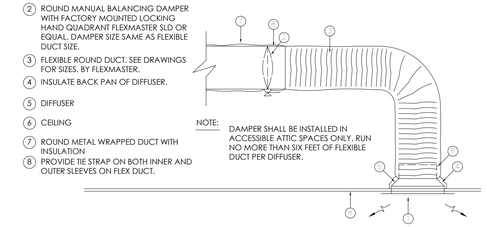
MS01

01



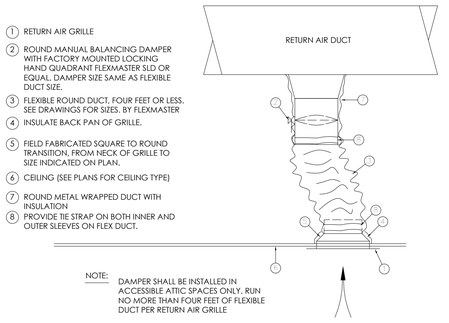
ROOF TOP UNIT DETAIL
NO SCALE

02



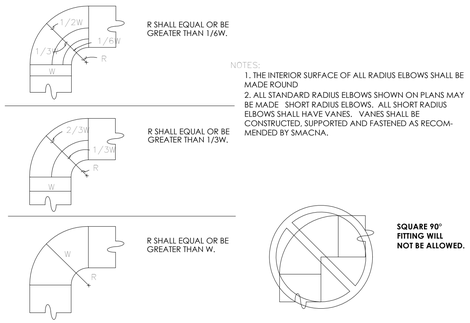
DIFFUSER RUN OUT DETAIL
NO SCALE

03



RETURN AIR GRILLE ATTACHMENT DETAIL
NO SCALE

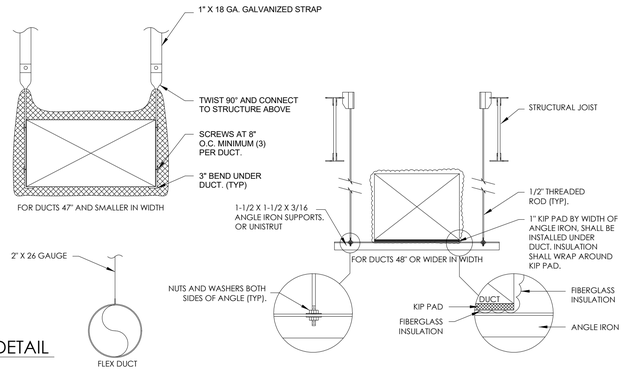
04



RADIUS DUCT ELBOW DETAIL
NO SCALE

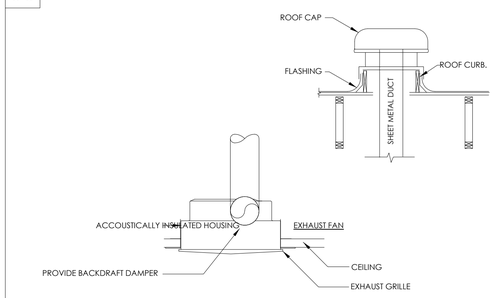
05

DUCT SUPPORT:
1. HANGER ATTACHMENTS TO STRUCTURE: SEE DIVISION 23 SECTION "HANGERS AND SUPPORTS FOR HVAC PIPING AND EQUIPMENT:. MINIMUM ROD OR BOLT SIZE 5/8(9MM).
2. SUSPEND HORIZONTAL GALVANIZED RECTANGULAR DUCTWORK 47" (1220MM) OR LESS IN LARGEST DIMENSION FROM CONSTRUCTION BY 1 INCH BY 18 GAUGE (25MM X 1.3MM) GALVANIZED STRAP HANGERS SCREWED 8 INCHES (200MM) O.C. TO DUCTS. USE THREE (3) SCREWS MINIMUM PER STRAP. BEND STRAP UNDER DUCT AND SCREW INTO BOTTOM OF DUCT.
3. SUSPEND HORIZONTAL RECTANGULAR STAINLESS STEEL AND COATED DUCTWORK 48" (1220MM) OR LESS IN LARGEST DIMENSION FROM CONSTRUCTION BY 1 INCH BY 18 GAUGE (25MM BY 1.3MM) GALVANIZED STEEL STRAP HANGERS BOLTED TO MATING FLANGES AT MINIMUM OF THREE LOCATIONS. (TOP,MIDDLE,BOTTOM)
4. DUCTS OVER 48" (1220MM) IN LARGEST DIMENSION SUPPORT FROM UNISTRUT, SUPERSTRUT, OR EQUAL, TRAPEZE HANGERS SIZED FOR THE LOAD, PER SMACNA STANDARDS.
5. SUPPORT ROUND STEEL DUCTWORK FROM CONSTRUCTION BY 1 INCH BY 18 GUAGE (25MM BY 1.3MM) GALVANIZED STRAP HANGERS WITH INSIDE RADIUS OF LOOP HANGER EQUAL TO OUTSIDE RADIUS OF DUCT. FOR DUCTS UNDER 12" DIAMETER, PROVIDE SUPPORTS 10 FEET (3CM) O.C. 12 FEET (3.6M) AND OVER, 6 FEET (1.8M) O.C. PROVIDE NOT LESS THAN ONE HANGER PER BRANCH AND AT EACH CHANGE OF DIRECTION.
6. SUPPORT ROUND FLEXIBLE DUCTWORK FROM CONSTRUCTION BY 2 INCHES BY 26 GAUGE (50 MM BY 0.55MM) GALVANIZED STRAP HANGERS WITH INSIDE RADIUS OF LOOP HANGER EQUAL TO OUTSIDE RADIUS OF DUCT. LOCATE SUPPORTS TO AVOID KINKS AND SHARP BENDS.
7. DOUBLE FOLD STRAPS AT ATTACHMENTS TO STRUCTURE.
8. SPACE HANGERS NOT OVER 96 INCHES (2440MM) ON CENTER FOR DUCTS SMALLER THAN 18 INCHES (457MM) IN LARGEST DIMENSION; 60 INCHES (1524MM) O.C. FOR DUCTS 18 INCHES (457MM) AND OVER.



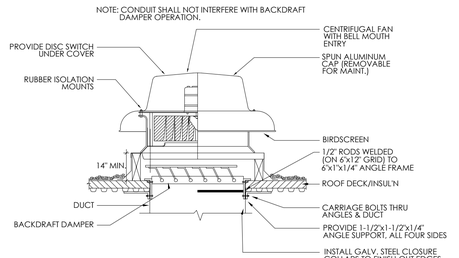
DUCT HANGER DETAIL
NO SCALE

06



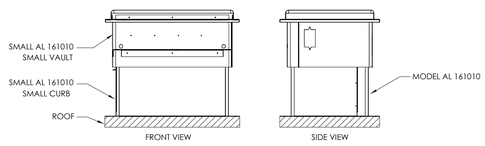
CEILING EXHAUST FAN DETAIL
NO SCALE

07



ROOF MTD. EXHAUST FAN
NO SCALE

01

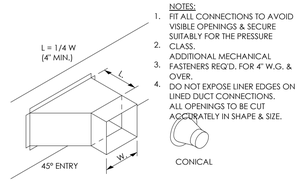


SMALL ROOF PENETRATION HOUSING
NO SCALE

01

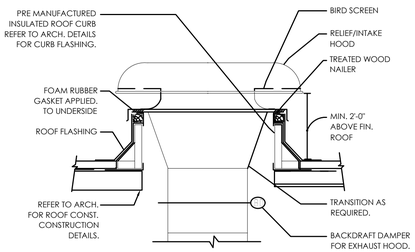
MINI SPLIT CONDENSING UNIT
NO SCALE

01



BRANCH CONN. DETAIL
NO SCALE

01



EXHAUST RELIEF ROOF CAP
NO SCALE

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12/10/2020

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HIDALGO COUNTY PRECINCT No. 4 NEW JUSTICE CENTER
HIDALGO COUNTY, TEXAS
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PROJECT NO: Project Number
DATE: 12/10/2020 4:50:29 PM
STARTING DATE:
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MECHANICAL DETAILS

MD01

ELECTRICAL LEGEND-LIGHTING

---ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS.
SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION
	2'x4' LIGHT FIXTURE, REFER TO LUMINAIRE SCHEDULE
	2'X4' LIGHT FIXTURE W/EMERGENCY BATTERY PACK, REFER TO LUMINAIRE SCHEDULE
	2'x2' LIGHT FIXTURE, REFER TO LUMINAIRE SCHEDULE
	2'X2' LIGHT FIXTURE W/EMERGENCY BATTERY PACK, REFER TO LUMINAIRE SCHEDULE
	1'X4' LIGHT FIXTURE, REFER TO LUMINAIRE SCHEDULE
	TRACK LIGHT WITH HEADS AS INDICATED
	INCANDESCENT, LED, FLUORESCENT, OR HID WALL WASHER LIGHT FIXTURE CEILING MTD, REFER TO LUMINAIRE SCHEDULE
	INCANDESCENT, LED, FLUORESCENT, OR HID FIXTURE CLG. OR WALL MTD, REFER TO LUMINAIRE SCHEDULE
	LED, FLUORESCENT, OR HID FIXTURE WITH EMERGENCY BATTERY PACK, CLG. OR WALL MTD, REFER TO LUMINAIRE SCHEDULE
	EXIT LIGHT, CEILING OR WALL MOUNTED - SHADING INDICATING SINGLE OR DOUBLE FACE: DIRECTIONAL ARROWS AS INDICATED REFER TO LUMINAIRE SCHEDULE
	EXIT LIGHT SAME AS ABOVE, EXCEPT WITH AN EMERGENCY UNIT AS A COMBO, REFER TO LUMINAIRE SCHEDULE
	CEILING FAN
	STRIP UTILITY LIGHT FIXTURE, REFER TO LUMINAIRE SCHEDULE
	STRIP UTILITY STRIP LIGHT WITH EMERGENCY BATTERY PACK, REFER TO LUMINAIRE SCHEDULE
S	WALL SWITCH SPST, 20A,120/277V
S2	DOUBLE POLE TOGGLE SWITCH, 20A/120/277V
S3	3-WAY WALL SWITCH, 20A,120/277V
S4	4-WAY WALL SWITCH, 20A,120/277V
SD	WALL DIMMER SWITCH
SP	WALL SWITCH SPST, 20A,120/277V - PILOT LIGHT SWITCH
SK	WALL SWITCH SPST, 20A,120/277V - KEYED SWITCH, X = 3 OR 4 WAY

ELECTRICAL LEGEND-SPECIAL SYSTEMS

---ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS.
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SYMBOL	DESCRIPTION	
TV	WALL MOUNTED TELEPHONE/DATA OUTLET, FURNISH AND INSTALL 1.25"C., WITH PULLSTRING AND INSULATED BUSHING, STUBBED ABOVE CEILING. +24" UNLESS OTHERWISE NOTE. BOX TO BE MINIMUM 2 1/8" DEEP.	
	WALL MOUNTED TELEPHONE OUTLET, FURNISH AND INSTALL 1"C , WITH PULLSTRING AND INSULATED BUSHING, STUBBED ABOVE CEILING. +24" UNLESS OTHERWISE NOTE. BOX TO BE MINIMUM 2 1/8" DEEP.	
	WALL MOUNTED DATA OUTLET, FURNISH AND INSTALL 1.25"C , WITH PULLSTRING AND INSULATED BUSHING, STUBBED ABOVE CEILING. +24" UNLESS OTHERWISE NOTE. BOX TO BE MINIMUM 2 1/8" DEEP.	
W	CEILING MOUNTED WIFI ACCESS POINT	
P	PUBLIC TELEPHONE OUTLET.: J-BOX & 1"C	
TV TV	TELEVISION OUTLET, CLG. OR WALL MOUNTED - STUB 1" C. ABOVE CEILING FROM OUTLET BOX	
	PUSHBUTTON WALL MOUNTED.	
DV	AUDIO VIDEO DROP, REFER TO DETAIL	
IC IC	INTERCOM - CALL SWITCH- JBOX WITH 3/4"C	
S	INTERCOM/PAGING LAY-IN SPEAKER	
I	PA EXTERIOR SPEAKER	10'-6" AFF
DC	SECURITY DOOR CONTACT SENSOR - STUB 1/2"C ABOVE CEILING FROM OUTLET BOX	
MD	SECURITY MOTION DETECTOR SENSOR - STUB 1/2"C ABOVE CEILING FROM OUTLET BOX	
G	SECURITY GLASS BREAK SENSOR - STUB 1/2"C ABOVE CEILING FROM OUTLET BOX	
KP	SECURITY KEY PAD - STUB 3/4"C ABOVE CEILING FROM OUTLET BOX	
SEC	SECURITY PANEL JUNCTION BOX	54"
ACC	ACCESS CONTROL PANEL JUNCTION BOX - BY OTHERS	54"
CR	CARD READER BOX - STUB 3/4"C ABOVE CEILING LEVEL FROM OUTLET BOX SYSTEM BY OTHERS	----
ML	MAGNETIC LOCK BOX - STUB 3/4"C ABOVE CEILING LEVEL FROM OUTLET BOX SYSTEM BY OTHERS	----
S	INTRUSION EXTERIOR SPEAKER	10'-6" AFF
C	SINGLE SIDED CLOCK, J-BOX W/3/4"C	96" AFF MIN.
C	DOUBLE SIDED CLOCK,J-BOX W/3/4"C	96" AFF MIN.
	CAMERA J-BOX W/ 3/4" CONDUIT	----
	TELEPHONE BOARD- 3/4"x8' FIRE RATED	

ELECTRICAL LEGEND-FIRE ALARM

---ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS.
SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION
F	FIRE ALARM PULL STATION: STUB 3/4"C ABOVE CEILING FROM J-BOX
AV	FIRE ALARM AUDIBLE/VISUAL SIGNAL: STUB 3/4"C ABOVE CEILING FROM J-BOX
V	FIRE ALARM VISUAL SIGNAL: STUB 3/4"C ABOVE CEILING FROM J-BOX
VS	FIRE ALARM CEILING MOUNT SPEAKER STROBE, UL LISTED, : J-BOX WITH 3/4"C
VS	FIRE ALARM CEILING WALL MOUNT OUTDOOR SPEAKER STROBE, UL LISTED, : J-BOX WITH 3/4"C
SD SD	FIRE ALARM SMOKE DETECTOR CEILING OR WALL MOUNTED: STUB 3/4"C ABOVE CEILING FROM J-BOX
H	HEAT DETECTOR CEILING OR WALL MOUNTED: STUB 3/4"C ABOVE CEILING FROM J-BOX
SD	DUCT SMOKE DETECTOR: STUB 3/4"C ABOVE CEILING FROM J-BOX
SD	SMOKE DETECTOR WITH AN AUDIBLE BASE: STUB 3/4"C ABOVE CEILING FROM J-BOX
FACP	FIRE ALARM CONTROL PANEL, ADDRESSABLE, SURFACE MTD UNO, INCLUDE A FIRE DOCUMENT BOX EQUAL TO MFR. SPACE AGE ELECTRONICS #FDB-ACE-11.
FACP-EVS	FIRE ALARM CONTROL PANEL WITH EMERGENCY VOICE SYSTEM, ADDRESSABLE, FLUSH MTD UNO, INCLUDE A FIRE DOCUMENT BOX EQUAL TO MFR. SPACE AGE ELECTRONICS #FDB-ACE-11.
EVES	FIRE ALARM EMERGENCY VOICE EVACUATION SYSTEM, FLUSH OR SURFACE.
FAAP	FIRE ALARM REMOTE ANNUNCIATOR PANEL, FLUSH MOUNTED UNO
PAD-X	POWER SUPPLY, DEDICATED 110V
DH	DOOR HOLDER DEVICE: STUB 3/4"C ABOVE CEILING FROM J-BOX
TS	TAMPER SWITCH: STUB 3/4"C ABOVE CEILING FROM J-BOX
FS	FLOW SWITCH: STUB 3/4"C ABOVE CEILING FROM J-BOX
F	FIRE ALARM OUTDOOR SPEAKER, WEATHER PROOF; STUB 3/4"C ABOVE CEILING FROM J-BOX

ELECTRICAL LEGEND-GENERAL

---ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS.
SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION
	HEAVY DUTY DISCONNECT SWITCH FUSED
	HEAVY DUTY DISCONNECT SWITCH NONFUSED
	HEAVY DUTY COMBINATION DISCONNECT/MOTOR STARTER
	HEAVY DUTY MOTOR STARTER
	ENCLOSED BREAKER, RE: TO SCH. FOR MORE INFO.
B	ROTARY TYPE DISCONNECT SWITCH
	120/277-208/480V ,20AMP., MOTOR RATED SWITCH. NEMA-1 (INTERIOR) ENCLOSURE, NEMA-3R(EXTERIOR) ENCLOSURE. VOLTAGE TO BE SELECTED PER EQUIPMENT CIRCUIT REQUIREMENTS.
	MOTOR
	PANELBOARD, CLEARANCE AS PER LATEST NEC
	SWITCH LEG
	ELECTRICAL CONDUIT
	UNDERGROUND ELECTRICAL CONDUIT
c	COMMUNICATION CONDUIT AND WIRING
X, X, X	MULTI-POLE DEVICE CIRCUIT NUMBERS
X/X/X	THREE SINGLE POLE DEVICE CIRCUIT NUMBERS
A-1	CONDUIT AND WIRE HOMERUN TO PANEL. SHORT HATCH INDICATES NEUTRAL CONDUCTOR, LONG HATCHES INDICATE PHASE CONDUCTORS, AND LONG HATCH WITH CIRCLE INDICATES ISOLATES OR INSULATED GROUND. ALPHANUMERIC DESCRIPTION INDICATES PANEL AND BREAKER.
A-1	UNDERGROUND CONDUIT AND WIRE HOMERUN TO PANEL. SHORT HATCH INDICATES NEUTRAL CONDUCTOR, LONG HATCHES INDICATE PHASE CONDUCTORS, AND LONG HATCH WITH CIRCLE INDICATES ISOLATED OR INSULATED GROUND. ALPHANUMERIC DESCRIPTION INDICATES PANEL AND BREAKER.
# / #	DETAIL NUMBER / SHEET NUMBER
	THERMOSTAT WALL MOUNTED - STUB 1/2"C ABOVE CEILING FROM OUTLET BOX. COORDINATE EXACT LOCATION AND HEIGHT WITH MECHANICAL DIVISION.
J J	JUNCTION BOX - SIZE & MOUNTING AS REQUIRED MINIMUM OF 4" SQUARE
	PHOTO CELL(MFR.INTERMATIC #K4136M)
	LIGHTING CONTACTOR, NEMA-1, W/H.O.A. SWITCH
	TIME CLOCK (MFR.TORK#72022)
CP-1	CIRCULATING PUMP
	ELECTRICAL DEVICE AS SHOWN ON PLANS SURFACE MOUNT RACEWAY. SURFACE MOUNT RACEWAY SHALL BE WIREMOLD #V700 SERIES. PROVIDE ALL RELATED #V700 SERIES ACCESSORIES FOR AN OPERABLE SYSTEM.

ELECTRICAL ABBREVIATIONS:

ABBV:	DESCRIPTION	ABBV:	DESCRIPTION
AFF	ABOVE FINISHED FLOOR	MFR. (S.C.)	MANUFACTURER SHARE CIRCUIT
BFC	BELOW FINISHED CEILING	QRCPT(S)	QUAD RECEPTACLE(S)
C	CONDUIT	RCPT(S)	DUPLEX RECEPTACLE(S)
CB	CIRCUIT BREAKER	CRCPT(S)	I.G. RECEPTACLE(S)
EC	EMPTY CONDUIT	QCRCPT(S)	QUAD I.G. RECEPTACLE(S)
EX	EXISTING	PNL	PANEL
F	FUSE	SO (S.O.)	SPACE ONLY
G	GROUND (EQUIPMENT)	SP	SPARE
GFI	GROUND FAULT INTERRUPTER	ST (S.T.)	SHUNT TRIP
MTD	MOUNT OR MOUNTED	SW	SWITCH
NF	NONFUSED	UF	UNDERFLOOR
NIC	NOT IN CONTRACT	UG	UNDERGROUND
H.D	HEAVY DUTY	UNO(U.N.O.)	UNLESS NOTED OTHERWISE
NL	NIGHT LIGHT	WG	WIRE GUARD
AC	ABOVE COUNTER	WP	WEATHERPROOF
HT.	HEIGHT	XFMR	TRANSFORMER
MTD.	MOUNTING	MB	MAIN BREAKER
FDR.	FEEDER	MLO	MAIN LUGS ONLY
CKT.	CIRCUIT	RMC	RIGID METAL CONDUIT
LTG.	LIGHTING	RNC	RIGID NONMETALLIC CONDUIT
LC	LIGHTING CONTACTOR	EMT	ELECTRICAL METALLIC TUBING CONDUIT
IG	ISOLATED GROUND	S/N	SOLID NEUTRAL
EA.	EACH	AC	ABOVE COUNTER
N1	NEMA-1	AHJ	AHUTHORITY HAVING JURISDICTION
N3R	NEMA-3R	T	TAMPER PROOF
N4X	NEMA-4X		
SS	STAINLESS STEEL		

NOTES:
1.) 48" AFF INDICATES TO TOP OF DEVICE;
15" AFF INDICATES TO BOTTOM OF DEVICE;
ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.
AC INDICATES 6" ABOVE COUNTER TO BOTTOM OF DEVICE.

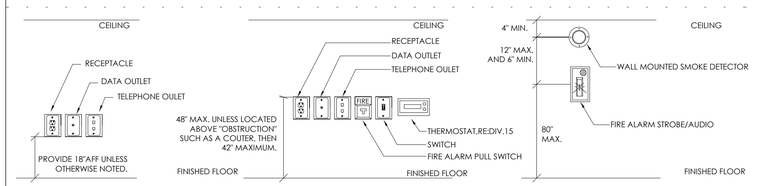
ELECTRICAL LEGEND - WIRING DEVICES

---ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS.
SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

	SINGLE RECEPTACLE - 20A/125V/2P/3W/G NEMA 5-20R
	DUPLEX RECEPTACLE - 20A/125V/2P/3W/G NEMA 5-20R
T	DUPLEX RECEPTACLE TAMPER RESISTANT - 20A/125V/2P/3W/G NEMA 5-20R
H H	HOSPITAL GRADE DUPLEX RECEPTACLE/GFI - 20A/125V/2P/3W/G NEMA 5-20R
	DUPLEX RCPT. GFI - 20A/125V/2P/3W/G NEMA 5-20R
WP/ "IN-USE"	DUPLEX RCPT.,WEATHER RESISTANT "WR", GFI INSTALLED IN A "IN-USE" WEATHER PROOF STEEL ENCLOSURE- 20A/125V/2P/3W/G NEMA 5-20R WP/"IN-USE" SHALL BE EQUAL TO MFR. CARLON, METALLIC SERIES SINGLE GANG, VERTICAL MOUNT #ME9UVMG DOUBLE GANG, VERTICAL MOUNT #ME9U2VMG
	QUADRAPLEX RECEPTACLE
	ISOLATED GROUND QUADPLEX RECEPTACLE
	ISOLATED GROUND DUPLEX RECEPTACLE - 20A/125V NEMA 5-20R
	208V RECEPTACLE, VERIFY NEMA NO. WITH EQUIPMENT SUPPLIER
Y	SPECIAL PURPOSE RECEPTACLE (NEMA NO. AS INDICATED)
HD	J-BOX - AIR HAND DRYER; (RECESSED HAND DRYERS TO BE PROVIDED BY DIVISION 16, ELECTRICAL) #B-750 AUTOMATIC HANDCRAFT AS MANUFACTURER BY BOBRICK, (COLOR WHITE) QUANTITY: REFER TO DRAWINGS (MIN. ONE PER LAV. COMPLETE W/ ELE. CONNECTIONS TYP.)
4G	4-GANG FLOOR MOUNTED BOX, 2-DUPLEX RECEPTACLE(INCLUDE RECEPTACLE WITH COVER PLATE)/2-GANG FOR DATA - FLUSH MOUNTED UNO FLOOR BOX = MFR.-HUBBELL MODEL#CFB4G30RCR-CFBS1R8CVRNKL(COVER)-(2)FBMPDUP-FBMP6KS -CFBHUB2(MULTISERVICE STEEL RECESSED FLOOR BOX -VERIFY FLOOR FINISH PRIOR TO ORDER SAME BOX FOR DATA OUTLETS.
6G	6-GANG FLOOR MOUNTED BOX, 2-DUPLEX RECEPTACLE(INCLUDE RECEPTACLE WITH COVER PLATE)/2-GANG FOR DATA - FLUSH MOUNTED UNO FLOOR BOX = MFR.-HUBBELL MODEL#CFB6G30RCR-CFBS1R8CVRNKL(COVER)-(3)FBMPDUP-FBMP6KS -CFBHB2(MULTISERVICE STEEL RECESSED FLOOR BOX-VERIFY FLOOR FINISH PRIOR TO ORDER SAME BOX FOR DATA OUTLETS.
6P	6" FIRE RATED POKE-TRHOUGHS BOX, 2-DUPLEX RECEPTACLE(INCLUDE RECEPTACLE WITH COVER PLATE)- MFR.-HUBBELL MODEL#S1R6PTIFT-S1R6SPE-S1R6SPL-S1R6SPH(50/50 DEVICE PLATE COMBINATION)-S1R6CVRALU(COVER) -VERIFY FLOOR FINISH PRIOR TO ORDER SAME BOX FOR DATA OUTLETS.
6JP	6" FIRE RATED POKE-TRHOUGHS BOX, FURNITURE FEED,- MFR.-HUBBELL MODEL#S1R6PTIFALU(ALUMINUM COVER) -VERIFY FLOOR FINISH PRIOR TO ORDER.
8P	8" FIRE RATED POKE-TRHOUGHS BOX, 2-DUPLEX RECEPTACLE(INCLUDE RECEPTACLE WITH COVER PLATE)- MFR.-HUBBELL MODEL#S1R8PTIFT3-S1R8CSPK-S1R8CSPK-S1R8PSPZ(50/50 DEVICE PLATE COMBINATION)-S1R8CVRALU(COVER) -VERIFY FLOOR FINISH PRIOR TO ORDER SAME BOX FOR DATA OUTLETS.

MOUNTING HEIGHT DETAIL

NOTE: VERIFY WITH ARCHITECTURAL FOR **ADA REQUIREMENTS.**



GENERAL ELECTRICAL NOTES

1. ALL SYMBOLS AND ABBREVIATIONS SHOWN ON THIS LEGEND MAY NOT APPEAR ON THIS SET OF DRAWINGS.
2. USE DIRECTIONAL ARROW ON EXIT SIGNS AS REQUIRED.
3. IEEE STANDARD C37.2-1991, ELECTRICAL POWER SYSTEM DEVICE FUNCTION NUMBERS.
4. CONTRACTOR SHALL NOT INSTALL MORE THAN THREE CURRENT CARRYING CONDUCTORS IN A COMMON RACEWAY. IF CONTRACTOR IS PLANNING ON GROUPING MULTIPLE CIRCUITS IN A SINGLE RACEWAY, THE CONTRCATOR MUST SUBMIT ALL DERATING CALCULATIONS FOR THE PROPOSED INSTALLATION IN ACCORDANCE WITH NEC ARTICLE 310.15 (B) (2) FOR APPROVAL PRIOR TO INSTALLATION. NON APPROVED INSTALLATIONS WILL BE REMOVED AND REINSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE NEC AT NO ADDITIONAL COST TO THE OWNER.
5. THERE SHALL NOT BE MORE THAN THE EQUIVALENT OF THREE 90° BENDS [270 DEGREES TOTAL) BETWEEN PULL POINTS. WHERE THERE ARE MORE THAN THREE QUARTER BENDS, CONTRACTOR SHALL PROVIDE PULL BOXES AS SPECIFIED AND SIZED IN ACCORDANCE WITH NEC.
6. COMPLY WITH NEC REQUIREMENTS FOR ELECTRICAL INSTALLATIONS. ALL ELECTRICAL EQUIPMENT AND MATERIAL TO BE APPROVED, LISTED, LABELED, IDENTIFIED AND INSTALLED PER RECOGNIZED ELECTRICAL TESTING LABORATORY.
7. ALL RECEPTACLES, SWITCHES AND JUNCTION BOXES SERVED BY EMERGENCY BRANCH CIRCUITS SHALL BE "RED" IN COLOR. COVERPLATES SHALL BE LABELED IN ACCORDANCE WITH SPECIFICATIONS TO INDICATE PANELBOARD AND CIRCUIT NO. (IE: EP"LA-3).

ELECTRICAL LIGHTING FUNCTIONAL TESTING 7 COMMISSIONING PLAN:

CONTRACTOR SHALL PERFORM THE TASK BELOW TO COMMISSION THE LIGHTING CONTROL SYSTEM. CONTRACTOR SHALL SUBMIT A DOCUMENTATION DETAILING THE LIGHTING CONTROL SYSTEM, SETTING/CONDITION, ACTIONS PERFORMED AND FINAL SETTING CONDITION. SUBMIT DOCUMENTATION AT OR BEFORE SUBSTANTIAL COMPLETION TO FACILITATE OBTAINING THE CERTIFICATE OF OCCUPANCY.

A. ENSURE ALL LIGHTING FIXTURES FIXTURES HAVE LAMPS INSTALLED AND ARE FUNCTIONAL.
B. TEST ALL EXIT SIGNS, EMERGENCY LIGHTING FIXTURES, AND EMERGENCY BALLASTS FURNISHED INTEGRAL TO FIXTURES.
C. ENSURE ALL OCCUPANCY SENSORS HAVE BEEN INSTALLED AND ARE OPERATIONAL.
D. VERIFY ALL WALLBOX AND SCENE CONTROLLERS ARE INSTALLED AND OPERATIONAL.
E. TEST EACH INDIVIDUAL DEVICE FOR OCCUPANCY SENSOR TYPES OS1, OS2 AND TEST THE LIGHTING CONTROL RELAY PANEL SYSTEM.
F. TEST 10% OF ALL THE DEVICES FOR OCCUPANCY SENSOR TYPE: WSX-PDT-SA.
G. VERIFY THE FOLLOWING:
1. ALL SENSORS ARE LOCATED AND AIMED PER THE MANUFACTURER'S RECOMMENDATIONS.
2. STATUS INDICATORS ON DEVICES ARE OPERATIONAL AND CORRECT.
3. DEVICES CONTROL LIGHTING FIXTURES AS INDICATED ON DRAWINGS.
4. TIME DELAYS HAVE BEEN SET AS PER CODE AND PER OWNERS DIRECTIONS.
5. MOVEMENT IN ADJACENT AREAS AND/ CYCLING OF HVAC SYSTEMS DOES NOT FALSE TRIGGER SENSORS.
6. PHOTOCELL LOCATION AND AIMED PER MANUFACTURERS RECOMMENDATIONS.
7. PROGRAM INTERIOR RELAYS WITH A TIME FUNCTION ACCEPTABLE TO OWNER.
8. PROGRAM INTERIOR OVERRIDE SWITCH WITH A TIME FUNCTIONAL ACCEPTABLE BY OWNER.

ELECTRICAL SYSTEM SECTION 16000

THE ELECTRICAL WORK INCLUDES PROVIDING NEW MATERIALS, FIXTURES, DEVICES AND ACCESSORIES NECESSARY FOR A COMPLETE FUNCTIONING ELECTRICAL SYSTEM. THE WORK ALSO INCLUDES FINAL CONNECTIONS TO EQUIPMENT ITEMS PROVIDED BY OTHERS. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES OR ORDINANCES AND SUBJECT TO INSPECTION.

THE INTENT OF THE DRAWINGS IS TO INDICATE THE GENERAL EXTENT OF WORK REQUIRED FOR THE PROJECT. THE DRAWINGS FOR ELECTRICAL WORK ARE DIAGRAMMATIC, SHOWING THE LOCATION, TYPE DEVICES AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS, PROVIDE ALL FIXTURES, LAMPS, DEVICES, ACCESSORIES, OFFSETS AND MATERIALS NECESSARY TO FACILITATE THE SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT INDICATED.

PROVIDE A $5,000 ELECTRICAL CONTINGENCY.

COORDINATE WITH THE WORK OF OTHER SECTIONS. VERIFY EXISTING SITE CONDITIONS BEFORE BIDDING, MAKE ALL CONNECTIONS TO EQUIPMENT FURNISHED BY OTHERS. COMPLY WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. REFER TO KITCHEN EQUIPMENT DRAWINGS FOR ADDITIONAL INFORMATION REGARDING KITCHEN EQUIPMENT, CASEWORK, AND REQUIRED ELECTRICAL CONNECTIONS.
ALL WORK SHALL COMPLY WITH LOCAL LAWS GOVERNING ELECTRICAL INSTALLATIONS, AND THE MOST RECENT EDITION OF THE "NATIONAL ELECTRIC CODE", REFER TO REFERENCE STANDARDS. PROVIDE CODE REQUIRED CLEARANCES AROUND ALL ELECTRICAL EQUIPMENT. OBTAIN ALL PERMITS RELATING TO ELECTRICAL WORK.

1.1 REFERENCE STANDARDS

A. Materials, equipment, devices and workmanship shall comply with applicable local, county, state and national codes, laws and ordinances, utility company regulations and industry standards.
B. In case of differences between building codes, state laws, local ordinances, industry standards, utility company regulations and the Contract Documents, the most stringent shall govern. The Contractor shall promptly notify the Owner's Representative in writing of any such difference. Should the Contractor perform any work that does not comply with local codes, laws and ordinances, industry standards or other governing regulations, the work shall be corrected of noncompliance deficiencies with the Contractor bearing all costs.
C. In addition to the aforementioned ordinances, industry standards published by the following organizations shall apply:

AABM - American Association of Battery Manufacturers
ADA - American's with Disabilities Act
AIA - American Institute of Architects
ANSI - American National Standards Institute
ASTM - American Society for Testing and Materials
CBM - Certified Ballast Manufacturers Association
ETL - Electrical Testing Laboratories
FM - Factory Mutual
ICEA - Insulated Cable Engineers Associated
IEEE - Institute of Electrical and Electronic Engineers
IES - Illuminating Engineering Society
IRI - Industrial Risk Insurance
NBS - National Bureau of Standards
NEC - National Electrical Code
NECA - National Electrical Contractors Association
NEMA - National Electrical Manufacturers Association
NESC - National Electrical Safety Code
NETA - National Electrical Testing Association
NFPA - National Fire Protection Association
UL - Underwriters Laboratories

1.2 VOLTAGE DROP CALCULATIONS

CONTRACTOR SHALL PROVIDE VOLTAGE DROP CALCULATIONS FOR ALL EQUIPMENT CONNECTED, AND VERIFY SIZE OF ELECTRICAL SYSTEM BREAKERS, CONDUITS, ETC., REFER TO NEC 2011 FOR VOLTAGE DROP REQUIREMENTS.

ROOF PENETRATIONS SHALL COMPLY WITH "SMACNA" AND "NRCA" STANDARDS, AND WITH THE REQUIREMENTS OF THE EXISTING ROOFING WARRANTY, IF APPLICABLE. DO NOT PERFORM ROOFING PENETRATIONS IN A MANNER WHICH WOULD VOID OR OTHERWISE LIMIT THE EXISTING ROOFING WARRANTY.

TEMPORARY SERVICES: ARRANGE FOR SOURCES OF TEMPORARY CONSTRUCTION SERVICES. SUCH SERVICES SHALL BE NOMINALLY 120/208 VOLT, 1-PHASE, 3-WIRE FROM WHICH A COMPLETE SYSTEM OF TEMPORARY POWER AND LIGHTING SHALL BE PROVIDED FOR ALL CONSTRUCTION NEEDS.

CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EQUIPMENT AND SYSTEMS AGAINST HARMFUL EXPOSURE, OR ACCUMULATION OF DUST OR MOISTURE, FLOODING, CORROSION, AND ALL OTHER FORMS OF DAMAGE. CLEAN AND RESTORE DAMAGED FINISHES AND EQUIPMENT TO "LIKE-NEW" CONDITION.

ALL ELECTRICAL EQUIPMENT SHALL BE ADJUSTED AND TESTED FOR PROPER OPERATION. AFTER WIRES ARE IN PLACE AND CONNECTED TO DEVICES AND EQUIPMENT, THE SYSTEM SHALL BE TESTED FOR SHORTS AND GROUNDS. ALL HOT AND NEUTRAL CONDUCTORS, IF SHORTED OR GROUNDED, SHALL BE REMOVED AND REPLACED. ALL METERS, INSTRUMENTS, CABLE CONNECTIONS, EQUIPMENT, OR APPARATUS NECESSARY FOR MAKING ALL TESTS SHALL BE FURNISHED BY THIS CONTRACTOR.

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CONSULTANTS:

STATE OF TEXAS
LEONARD RAMIREZ
12/10/2020

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HIDALGO COUNTY, TEXAS
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DATE: 12/10/2020 4:47:53 PM
STARTING DATE:
CK BY:Checker | DWN BY:Author
ELECTRICAL LEGEND

EG01

GENERAL NOTES - ELECTRICAL SITE

A. CONTRACTOR TO VERIFY ALL EXISTING MAIN POWER SERVICES AND COORDINATE WITH POWER COMPANY FOR ALL NEW REQUIREMENTS AND ALL COST ASSOCIATED. CONTRACTOR SHALL INCLUDE ANY COST FOR THE NEW TRANSFORMER AND OTHER ASSOCIATED FEES IN BID. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL FEES WITH POWER COMPANY AND TO INCLUDE IN BID. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH POWER COMPANY AS SOON THE CONTRACT IS AWARDED TO ORDER TRANSFORMER AND THE RELATED ELECTRICAL SERVICE EQUIPMENT AS SOON AS POSSIBLE.

B. CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION, TRENCHING AND BACKFILLING. COORDINATE WITH ALL UTILITIES PRIOR TO EXCAVATION.

C. CONTRACTOR TO VERIFY ALL EXISTING MAIN TELEPHONE SERVICES AND COORDINATE WITH TELEPHONE COMPANY FOR ALL REQUIREMENTS AND ALL COST ASSOCIATED. INCLUDE ALL COST IN BID. CONDUIT FROM MAIN TELEPHONE RISER SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.

D. ALL ELECTRICAL EQUIPMENT OUTDOORS SHALL BE RATED TYPE NEMA 3R UNLESS OTHERWISE NOTED.

E. CONTRACTOR SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES. ALL WORK SHALL CONFORM TO NATIONAL ELECTRICAL CODES AND ALL OTHER AUTHORITY HAVING JURISDICTION. OBTAIN PERMITS AND PAY ALL FEES. PERFORM MODIFICATIONS TO MEET CODE AND ORDINANCE REQUIREMENTS AT NO ADDITIONAL COST TO OWNER, ARCHITECT OR ENGINEER. VERIFY PRIOR TO BID DATE.

F. VERIFY AT JOB SITE THE EXACT LOCATIONS OF STRUCTURAL MEMBERS SUCH AS BEAMS, COLUMNS, ETC. TO LOCATE EQUIPMENT CONDUIT, PANELS AND DEVICES. IF DEVIATIONS FROM THE DRAWING ARE NECESSARY TO MEET STRUCTURAL CONDITIONS MAKE DEVIATIONS WITHOUT ADDITIONAL COST, TO OWNER, ARCHITECT, OR ENGINEER.

G. IN COOPERATION WITH OTHER CONTRACTORS, DETERMINE THE EXACT LOCATION OF EQUIPMENT AND DEVICES AND CONNECTIONS THERETO BY REFERENCE TO THE SUBMITTALS AND ROUGH-IN DRAWINGS, AND BY MEASUREMENTS AT THE SITE. REFER TO ALL OTHER TRADES SUBMITTAL FOR ELECTRICAL INFORMATION.

H. GROUND ENTIRE ELECTRICAL SYSTEM IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.

I. VERIFY AT JOB SITE GENERAL WORK TO BE DONE AS SPECIFIED, AS NOTED, OR AS REQUIRED FOR INSTALLATION ELECTRICAL SYSTEMS PRIOR TO SUBMISSION OF BIDS.

J. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND EQUIPMENT TO BE REMOVED AND REPLACED BEFORE SUBMITTING HIS BID.

K. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND SMALL SCALE ONLY. THEY CONVEY THE INTENT OF THE WORK BUT DO NOT SHOW DETAIL SUCH AS JUNCTION AND PULL BOXES REQUIRED BY THE SPECIFICATIONS AND THE NATIONAL ELECTRICAL CODE(NEC). PROVIDE ALL MATERIALS AND METHODS CALLED FOR IN THE SPECIFICATIONS AND AS REQUIRED IN THE NEC TO PROVIDE A COMPLETE INSTALLATION OF ALL WORK.

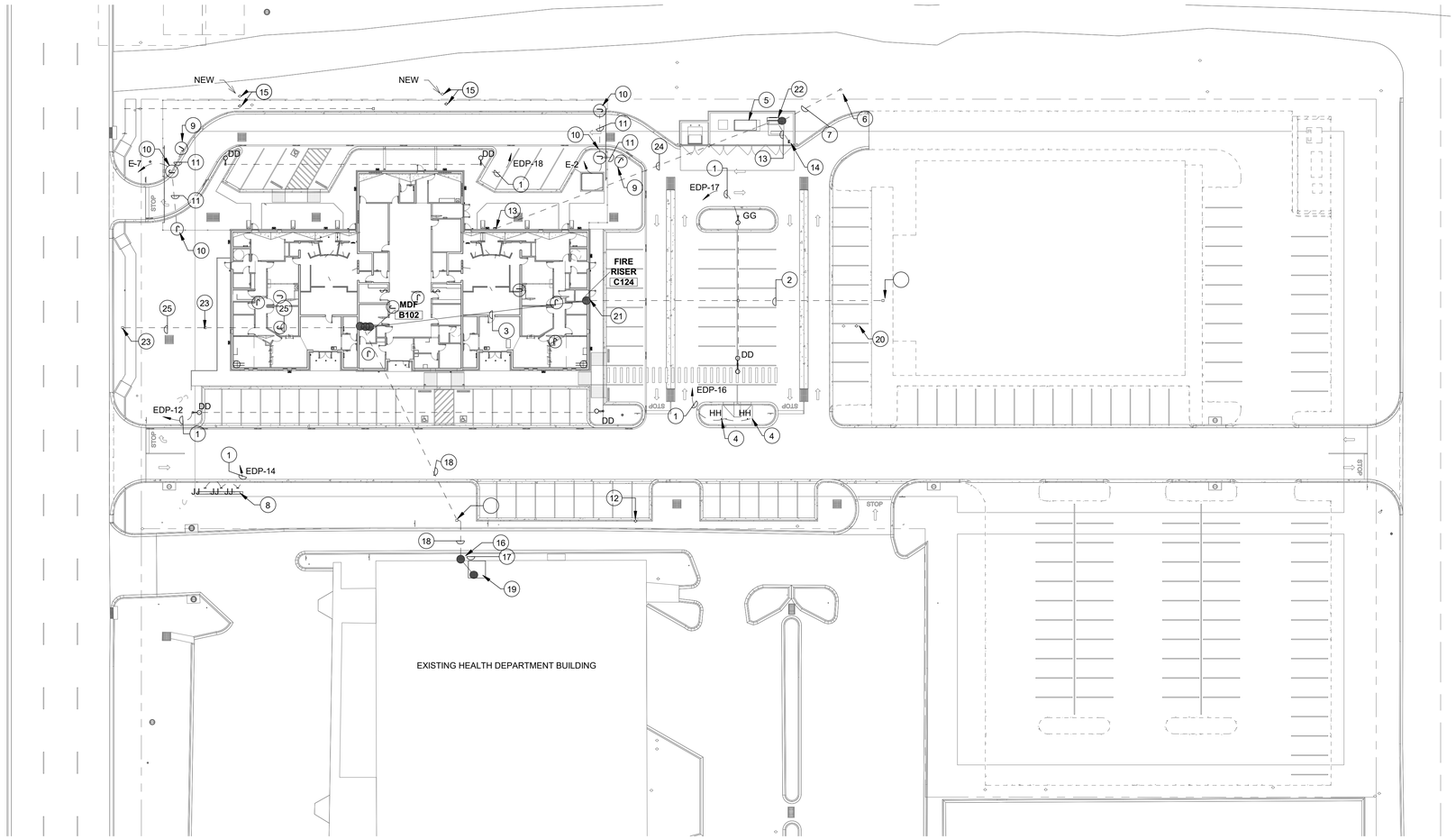
L. ALL WIRING SHALL BE COPPER.

M. ALL SLEEVES, PENETRATIONS, ETC. SHALL BE SEALED SOLID NON-SHRINKING MATERIAL IMMEDIATELY UPON FILLING OF THE OPENING WITH PIPE OR CONDUIT.

N. ARRANGE FOR SOURCES OF TEMPORARY CONSTRUCTION SERVICES. SUCH SERVICES SHALL BE NOMINALLY 120/240V, 1-PHASE, 3-WIRE FROM WHICH A COMPLETE SYSTEM OF TEMPORARY POWER AND LIGHTING SHALL BE PROVIDED FOR ALL CONSTRUCTION NEEDS.

ELECTRICAL KEYNOTES

1	SHALL BE CONTROLLED VIA LIGHTING CONTROL PANEL 'LCP1'. REFER TO RISER AND SPECIFICATION FOR ADDITIONAL INFORMATION.
2	PROVIDE 2-4" CONDUITS FOR COMMUNICATION FOR FUTURE BUILDING.
3	PROVIDE 2-4" CONDUITS ABOVE CEILING AND STUB DOWN AT RISER ROOM C124.
4	PROVIDE CONCRETE PEDESTAL FOR FLAG LIGHTING. REFER TO LIGHTING SCHEDULE.
5	PROPOSE NEW GENERATOR LOCATION. FIELD COORDINATE EXACT LOCATION.
6	NEW POWER COMPANY POWER POLE WITH RISER DIP POLE.
7	CONTRACTOR TO PROVIDE AND INSTALL (1)-4" PVC CONDUIT FROM PROPOSED NEW UTILITY COMPANY POWER POLE WITH RISER DIP POLE TO NEW PAD MOUNT TRANSFORMER. ALL UNDERGROUND WORK SHALL BE ACCORDING TO POWER COMPANY STANDARDS. VERIFY ALL REQUIREMENTS WITH THE POWER COMPANY BEFORE ANY ROUGH-IN. COORDINATE LOCATION, COST, AND INSTALLATION WITH POWER COMPANY PRIOR TO BID.
8	MONUMENT SIGN LIGHTING. FIELD COORDINATE EXACT LOCATION.
9	PROVIDE J-BOX FOR GATE KEYPAD ENTRY.
10	PROVIDE J-BOX FOR GATE MOTOR CIRCUIT. COORDINATE WITH GATE SUPPLIER EXACT ELECTRICAL REQUIREMENTS PRIOR TO ANY ROUGH-INS.
11	PROVIDE 2" CONDUIT FOR GATE COMMUNICATION CONTROLS.
12	EXISTING POWER POLE TO REMAIN.
13	NEW SERVICE ELECTRICAL DISCONNECT. REFER TO ELECTRICAL RISER DIAGRAM FOR ADDITIONAL INFORMATION.
14	NEW 120/208V, 3-PHASE, 4W, ELECTRICAL SERVICE METER.
15	EXISTING UTILITY POWER POLES TO BE REMOVED AND PROVIDE NEW AT A NEW LOCATION AS SHOWN. INCLUDE ALL COST ASSOCIATED WITH ALL POWER UTILITY COMPANY WORK.
16	STUB UP ALONG EXTERIOR WALL PAINT EXPOSED CONDUIT TO MATCH EXISTING EXTERIOR FINISH COLOR.
17	RUN IN AND ABOVE CEILING TO HEALTH DEPARTMENT IT ROOM.
18	PROVIDE 2-4" CONDUITS WITH PULLSTRING FOR COMMUNICATION COORDINATE ALL ROUTING WITH EXISTING AND NEW UTILITIES PRIOR TO COMMENCING ANY WORK.
19	APPROXIMATE LOCATION OF IT ROOM. FIELD VERIFY EXACT LOCATION OF ROOM PRIOR TO ANY WORK.
20	REMOVE POWER POLES AND POWER LINE. COORDINATE ALL UTILITY WITH CIVIL ENGINEER PRIOR TO ANY WORK.
21	STUB-UP CONDUIT IN RISER ROOM AT AN ACCESIBLE LOCATION. FIELD COORDINATE EXACT LOCATION.
22	NEW POWER COMPANY PAD MOUNTED TRANSFORMER. PROVIDE CONCRETE PAD PER POWER COMPANY STANDARDS. COORDINATE COST AND INSTALLATION WITH POWER COMPANY PRIOR TO BID DATE. COORDINATE EXACT LOCATION WITH POWER COMPANY PRIOR TO ANY ROUGH-IN.
23	PROVIDE IN-GRADE PULLBOX FOR COMMUNICATION. REFER TO DETAIL.
24	CONTRACTOR TO PROVIDE AND INSTALL PVC CONDUIT FROM NEW UTILITY TRANSFORMER TO NEW ELECTRICAL METER AND MAIN SWITCH DISCONNECT PER POWER COMPANY STANDARDS. VERIFY ALL REQUIREMENTS PRIOR TO ANY ROUGH-IN. REFER TO ELECTRICAL RISER DIAGRAM.
25	CONTRACTOR TO PROVIDE AND INSTALL (2)-4"PVC CONDUIT FOR COMMUNICATION SERVICE EQUIPPED WITH PULLSTRING, AND TURNED UP AND CAPPED AT BOTH ENDS. DEPTH OF CONDUIT SHALL BE A MINIMUM OF 36". VERIFY ALL REQUIREMENTS WITH LOCAL UTILITIES BEFORE ROUGH-IN. ROUTE TO NEAREST COMMUNICATION SERVICE LINE OR AS DIRECTED BY LOCAL COMMUNICATION COMPANY. PROVIDE TRENCHING AND BACKFILL AS REQUIRED. COORDINATE EXACT LOCATION AND COST WITH COMMUNICATION COMPANY PRIOR TO BID.



ELECTRICAL SITE PLAN

1" = 30'-0"

N

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12/10/2020

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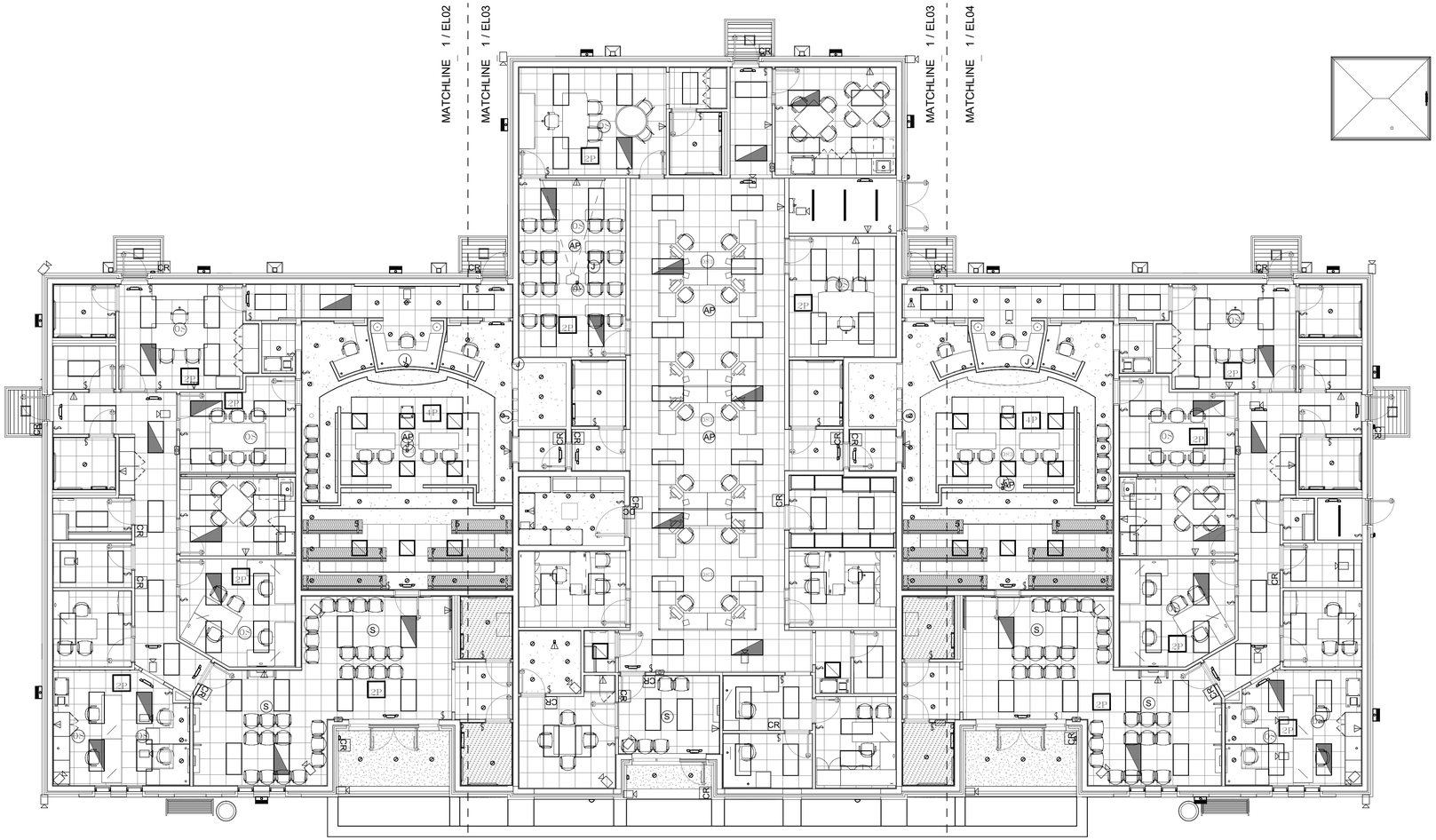
ELECTRICAL SITE PLAN

ES01

GENERAL NOTES- LIGHTING

A. ALL EXIT FIXTURES TYPE-"X1 & X2", EMERGENCY LIGHT FIXTURE TYPE-"E" AND ALL EMERGENCY BALLAST SHALL BE ON CIRCUIT "E-27". FIXTURE TYPE LABEL WITH AN "_E" ARE LIGHT FIXTURES WITH EMERGENCY BALLAST. REFER TO LIGHT FIXTURE SCHEDULE.
B. VERIFY CEILING TYPES AND COORDINATE WITH FIXTURE TYPE LIGHT FIXTURE SHALL BE COMPATIBLE WITH CEILING TYPE AS INDICATED ON THE ARCHITECTURAL DOCUMENTS. NOTIFY ENGINEER IF DISCREPANCIES EXIST PRIOR TO ORDERING FIXTURES.
C. COORDINATE EXACT ROUTING OF ALL CONDUIT ABOVE CEILING IN BUILDING. TYPICAL FOR ALL BUILDING EXTERIOR LIGHTING.
D. COORDINATE LOCATION OF LIGHTS WITH DIFFUSERS AND GRILLES.
E. SWITCH LEGS ARE NOT SHOWN WHERE SWITCHING SCHEME IS OBVIOUS.
F. ALL NIGHTLIGHT FIXTURES TO BE ON 24/7. CIRCUIT SHALL BE "E-8"

ELECTRICAL KEYNOTES



ELECTRICAL LIGHTING OVERALL FLOOR PLAN - JUSTICE CENTER

1/8" = 1'-0"

1

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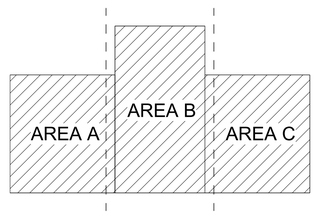

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HIDALGO COUNTY, TEXAS

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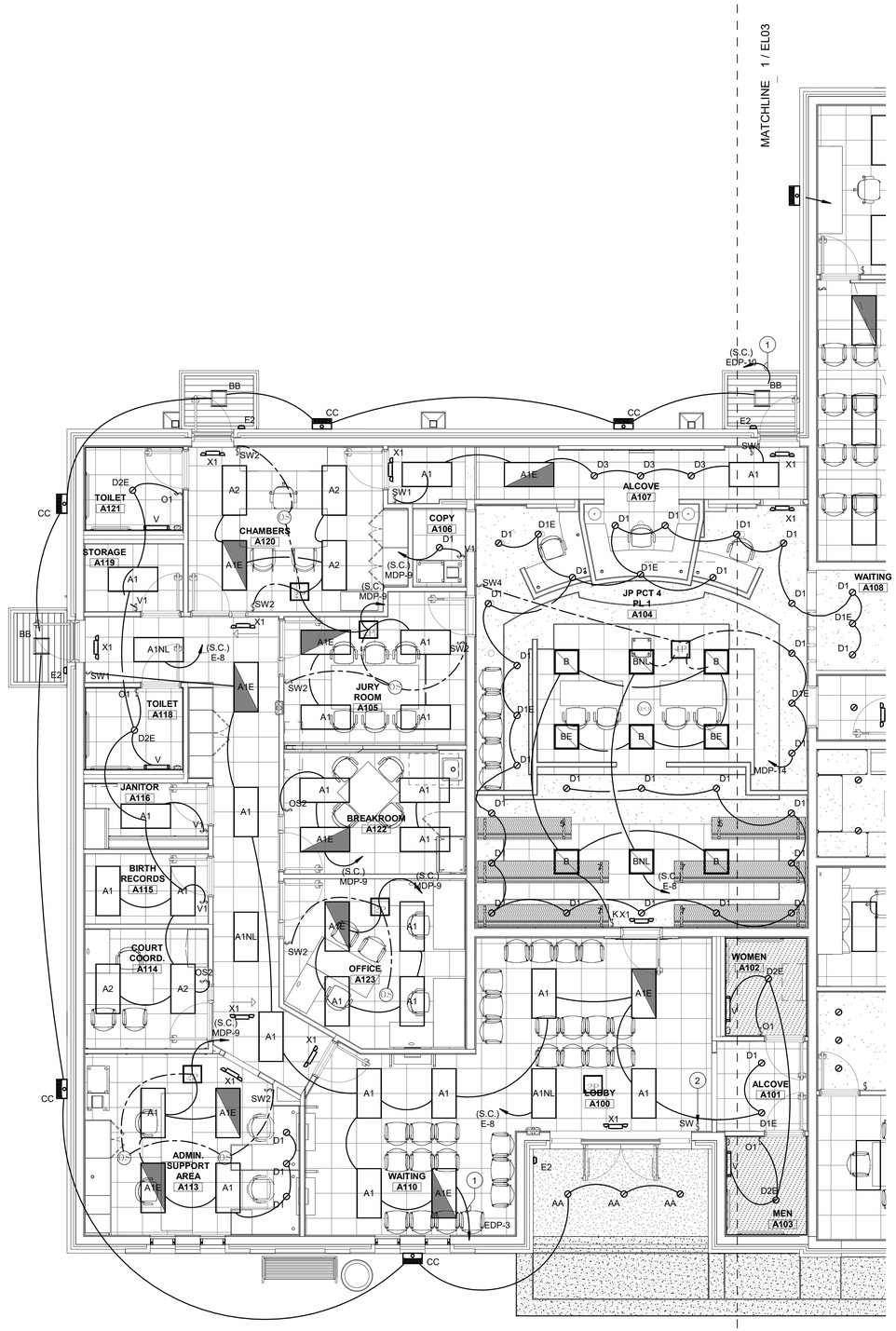
ELECTRICAL LIGHTING FLOOR PLAN

EL01



ELECTRICAL LIGHTING PLAN - JP PCT 4 PL 1

3/16" = 1'-0"

GENERAL NOTES- LIGHTING

A. ALL EXIT FIXTURES TYPE-"X1 & X2", EMERGENCY LIGHT FIXTURE TYPE-"E" AND ALL EMERGENCY BALLAST SHALL BE ON CIRCUIT "E-27". FIXTURE TYPE LABEL WITH AN "_E" ARE LIGHT FIXTURES WITH EMERGENCY BALLAST. REFER TO LIGHT FIXTURE SCHEDULE.

B. VERIFY CEILING TYPES AND COORDINATE WITH FIXTURE TYPE LIGHT FIXTURE SHALL BE COMPATIBLE WITH CEILING TYPE AS INDICATED ON THE ARCHITECTURAL DOCUMENTS. NOTIFY ENGINEER IF DISCREPANCIES EXIST PRIOR TO ORDERING FIXTURES.

C. COORDINATE EXACT ROUTING OF ALL CONDUIT ABOVE CEILING IN BUILDING. TYPICAL FOR ALL BUILDING EXTERIOR LIGHTING.

D. COORDINATE LOCATION OF LIGHTS WITH DIFFUSERS AND GRILLES.

E. SWITCH LEGS ARE NOT SHOWN WHERE SWITCHING SCHEME IS OBVIOUS.

F. ALL NIGHTLIGHT FIXTURES TO BE ON 24/7. CIRCUIT SHALL BE "E-8"

ELECTRICAL KEYNOTES

1	SHALL BE CONTROLLED VIA LIGHTING CONTROL PANEL 'LCP1'. REFER TO RISER AND SPECIFICATION FOR ADDITIONAL INFORMATION.
2	PROVIDE DIGITAL SWITCH FOR LIGHTING RELAY PANEL 'LCP1'. PROGRAM SWITCH WITH TIME FUNCTIONS PER OWNER DIRECTIONS. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ANY WORK.

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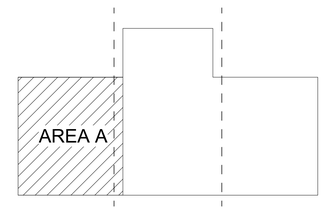

KEY PLAN

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12/10/2020

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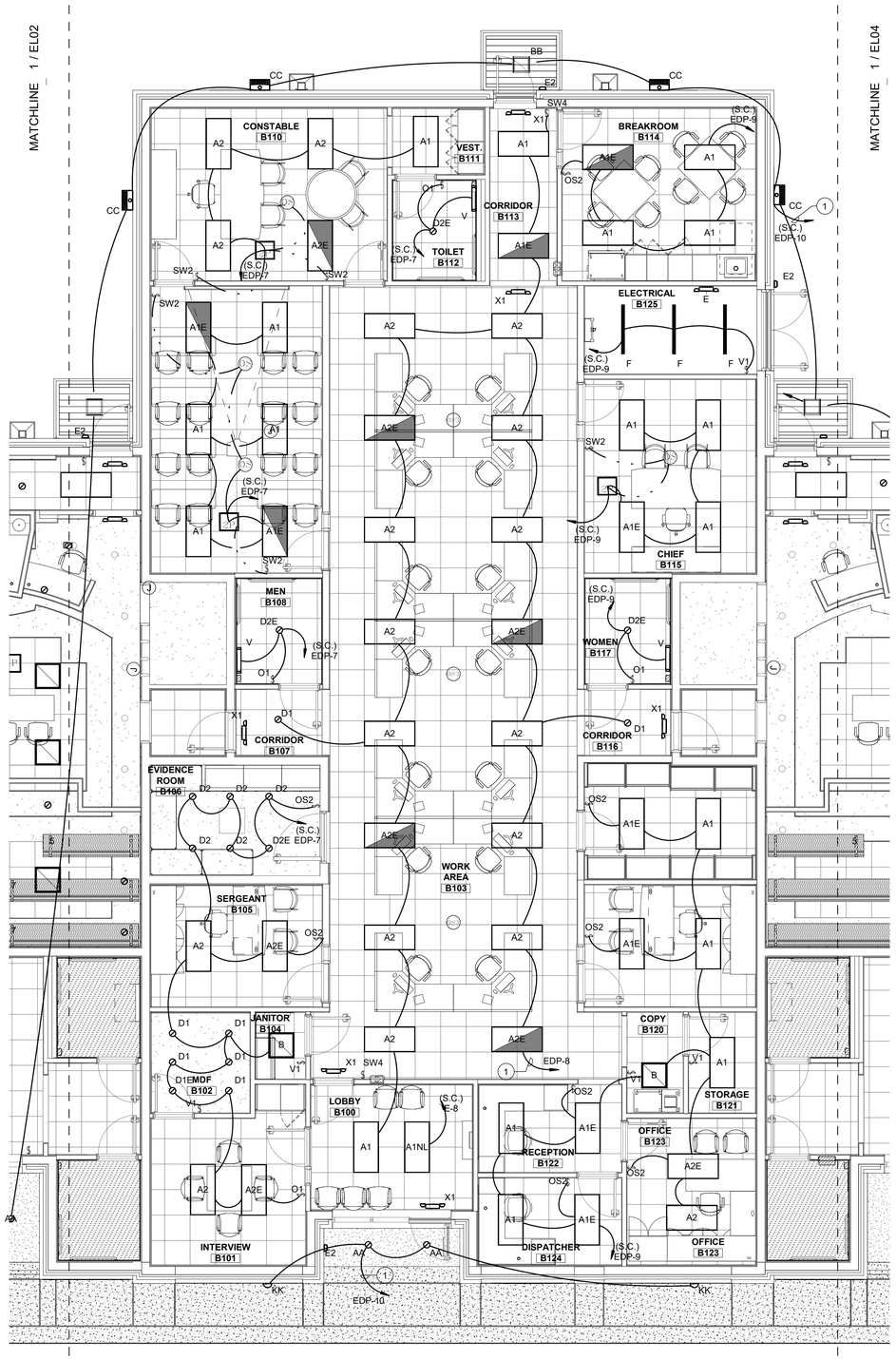
ELECTRICAL LIGHTING JP PCT 4 PL 1

EL02



ELECTRICAL LIGHTING PLAN - CONSTABLE PCT 4

3/16" = 1'-0"

GENERAL NOTES- LIGHTING

A. ALL EXIT FIXTURES TYPE-"X1 & X2", EMERGENCY LIGHT FIXTURE TYPE-"E" AND ALL EMERGENCY BALLAST SHALL BE ON CIRCUIT "E-27". FIXTURE TYPE LABEL WITH AN "_E" ARE LIGHT FIXTURES WITH EMERGENCY BALLAST. REFER TO LIGHT FIXTURE SCHEDULE.

B. VERIFY CEILING TYPES AND COORDINATE WITH FIXTURE TYPE LIGHT FIXTURE SHALL BE COMPATIBLE WITH CEILING TYPE AS INDICATED ON THE ARCHITECTURAL DOCUMENTS. NOTIFY ENGINEER IF DISCREPANCIES EXIST PRIOR TO ORDERING FIXTURES.

C. COORDINATE EXACT ROUTING OF ALL CONDUIT ABOVE CEILING IN BUILDING. TYPICAL FOR ALL BUILDING EXTERIOR LIGHTING.

D. COORDINATE LOCATION OF LIGHTS WITH DIFFUSERS AND GRILLES.

E. SWITCH LEGS ARE NOT SHOWN WHERE SWITCHING SCHEME IS OBVIOUS.

F. ALL NIGHTLIGHT FIXTURES TO BE ON 24/7. CIRCUIT SHALL BE "E-8"

ELECTRICAL KEYNOTES	
1	SHALL BE CONTROLLED VIA LIGHTING CONTROL PANEL 'LCP1'. REFER TO RISER AND SPECIFICATION FOR ADDITIONAL INFORMATION.

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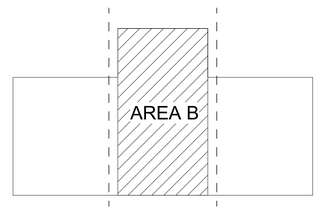

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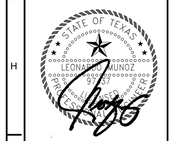

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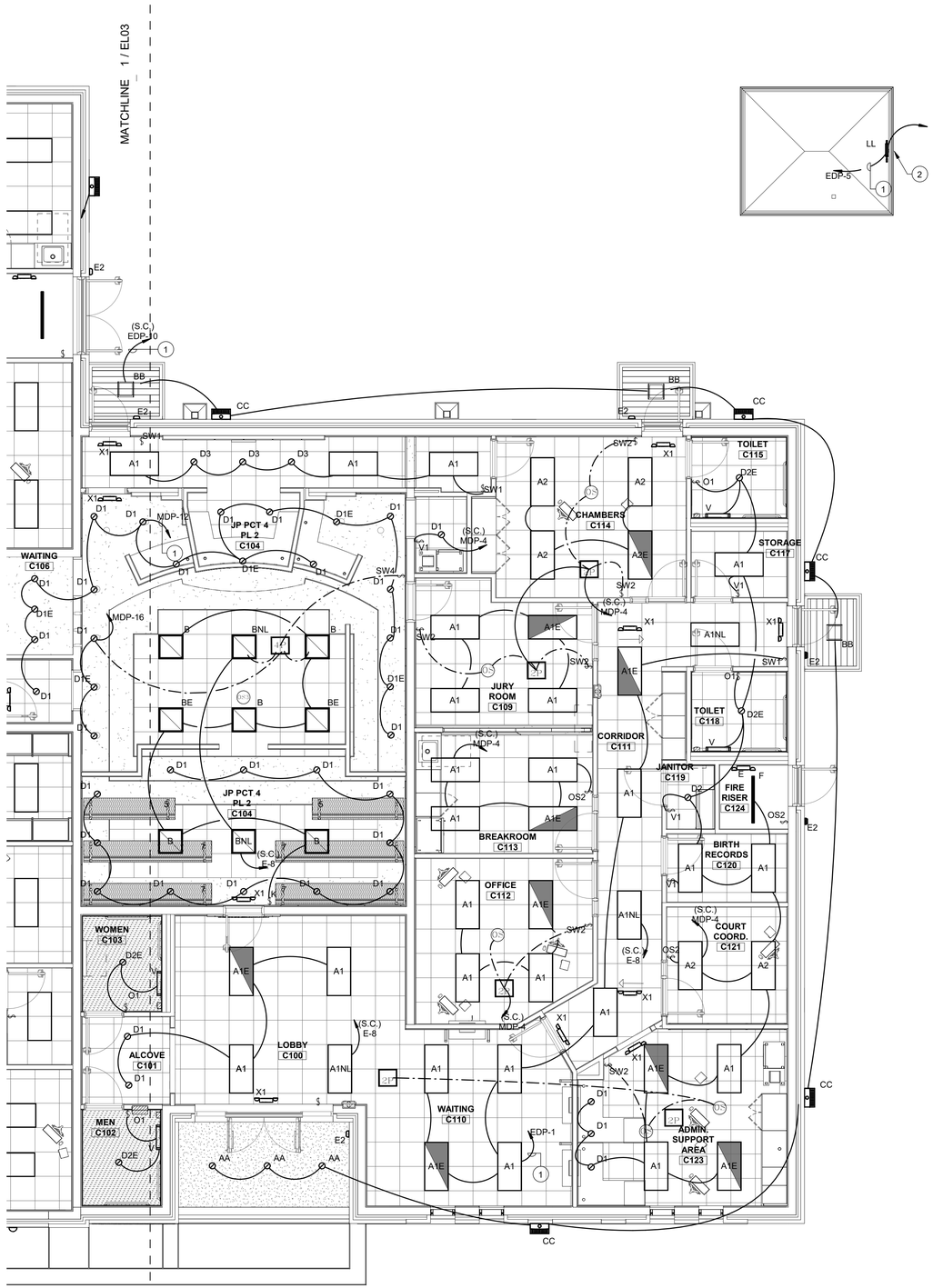
ELECTRICAL LIGHTING CONSTABLE PCT 4

EL03



GENERAL NOTES- LIGHTING

A. ALL EXIT FIXTURES TYPE-"X1 & X2", EMERGENCY LIGHT FIXTURE TYPE-"E" AND ALL EMERGENCY BALLAST SHALL BE ON CIRCUIT "E-27". FIXTURE TYPE LABEL WITH AN "_E" ARE LIGHT FIXTURES WITH EMERGENCY BALLAST. REFER TO LIGHT FIXTURE SCHEDULE.

B. VERIFY CEILING TYPES AND COORDINATE WITH FIXTURE TYPE LIGHT FIXTURE SHALL BE COMPATIBLE WITH CEILING TYPE AS INDICATED ON THE ARCHITECTURAL DOCUMENTS. NOTIFY ENGINEER IF DISCREPANCIES EXIST PRIOR TO ORDERING FIXTURES.

C. COORDINATE EXACT ROUTING OF ALL CONDUIT ABOVE CEILING IN BUILDING. TYPICAL FOR ALL BUILDING EXTERIOR LIGHTING.

D. COORDINATE LOCATION OF LIGHTS WITH DIFFUSERS AND GRILLES.

E. SWITCH LEGS ARE NOT SHOWN WHERE SWITCHING SCHEME IS OBVIOUS.

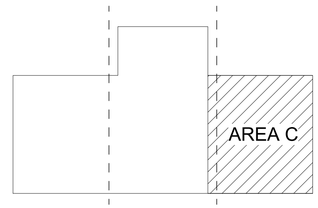
F. ALL NIGHTLIGHT FIXTURES TO BE ON 24/7. CIRCUIT SHALL BE "E-8"

ELECTRICAL KEYNOTES

1	SHALL BE CONTROLLED VIA LIGHTING CONTROL PANEL 'LCP1'. REFER TO RISER AND SPECIFICATION FOR ADDITIONAL INFORMATION.
2	LIGHT FIXTURE TO BE MOUNTED ON POST OF KENNEL.

ELECTRICAL LIGHTING PLAN - JP PCT 4 PL 2

3/16" = 1'-0"



KEY PLAN

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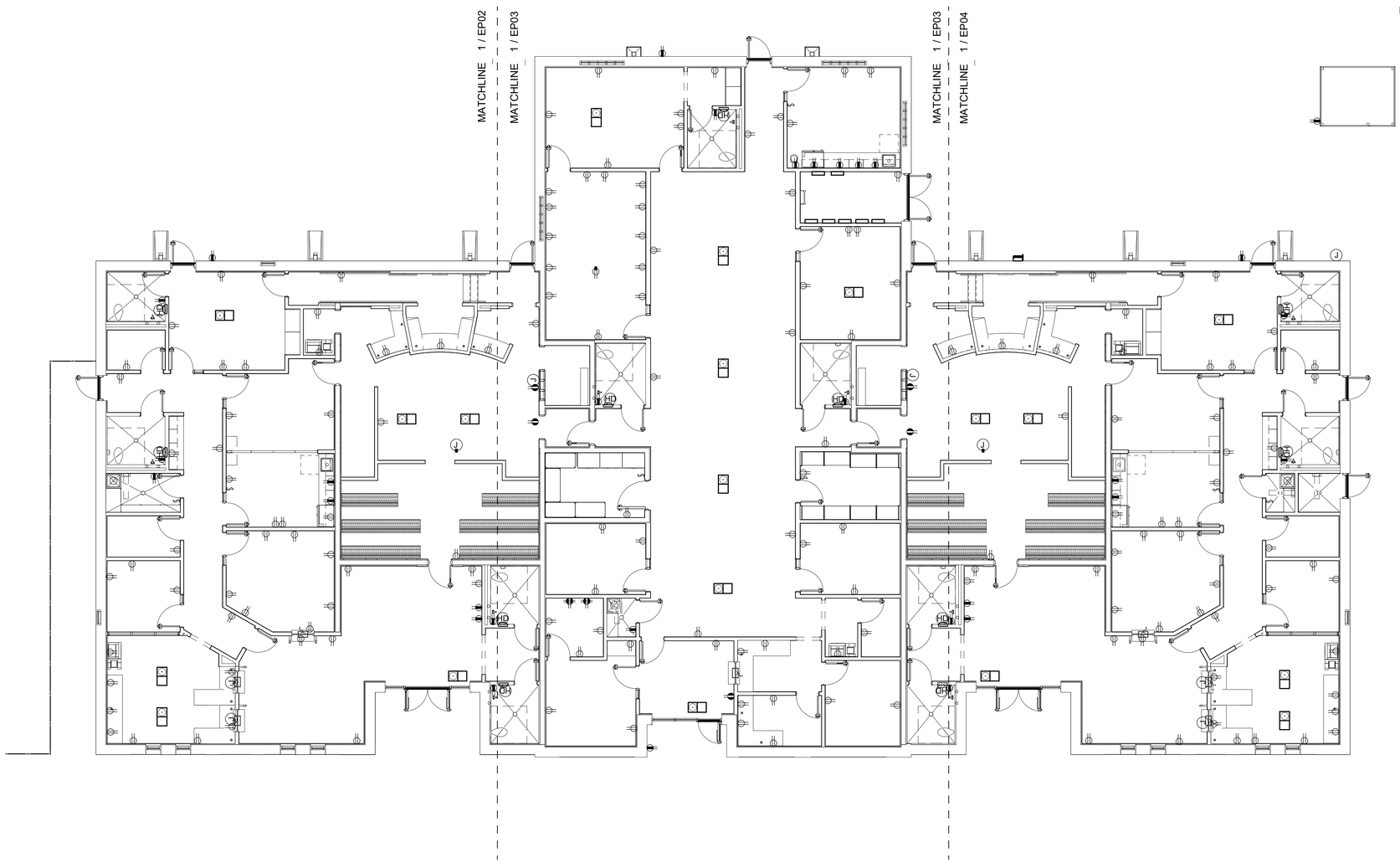
ELECTRICAL LIGHTING JP PCT 4 PL 2

EL04

GENERAL NOTES- POWER

A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF ALL POWER SOURCE WIRING IN ACCORDANCE WITH ARCHITECTURAL MILLWORK.
B. ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTION TO H.V.A.C EQUIPMENT, PLUMBING EQUIPMENT, REFER TO PANEL SCHEDULE FOR WIRE SIZE.
C. ELECTRICAL CONTRACTOR SHALL PROVIDE STARTERS, RELAYS, CONTACTORS AND THE REQUIRED ELECTRICAL ACCESSORIES FOR MECHANICAL SYSTEM AS REQUIRED.
D. COORDINATE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT IN ACCORDANCE W/MECHANICAL DRAWINGS TO MEET ELECTRICAL AND MECHANICAL REQUIRED CLEARANCE BY THE LATEST CODE.
E. COORDINATE EXACT LOCATION OF ISOLATED OUTLETS FOR COMPUTERS WITH OWNER.
F. ELECTRICAL CONTRACTOR SHALL PROVIDE J-BOX AND CONDUIT FOR H.V.A.C. CONTROLS AND THERMOSTATS. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
G. NEMA RATED OUTLETS, REFER TO BREAKER SIZE AND COORDINATE WITH EQUIPMENT REQUIREMENTS PRIOR TO BID.

ELECTRICAL KEYNOTES



ELECTRICAL POWER OVER ALL FLOOR PLAN - JUSTICE CENTER

1/8" = 1'-0"

1

N

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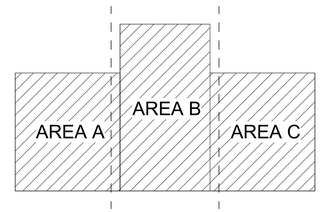

KEY PLAN

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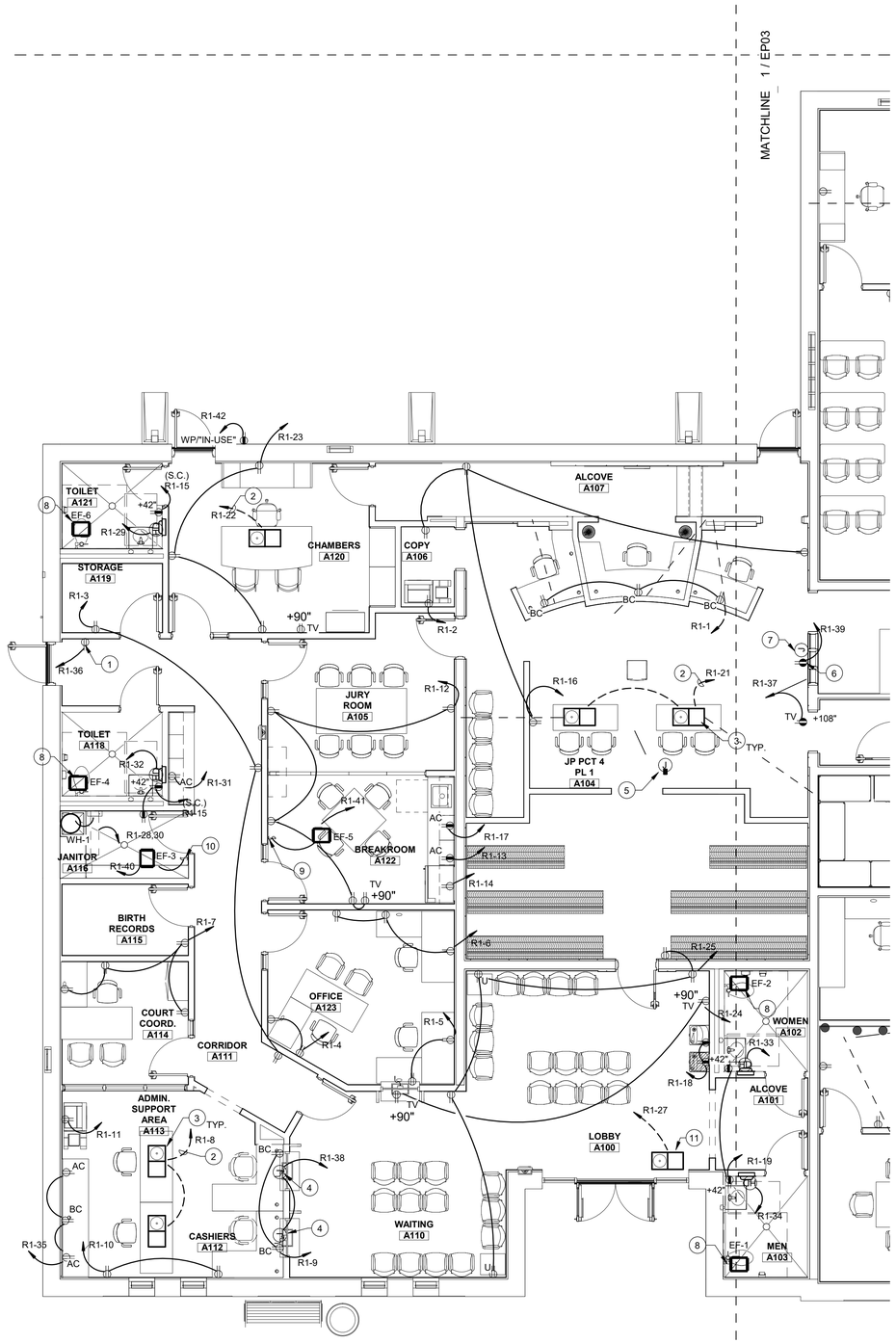
ELECTRICAL POWER FLOOR PLAN

EP01



ELECTRICAL POWER FLOOR PLAN - JP PCT 4 PL 1

3/16" = 1'-0"

GENERAL NOTES- POWER

A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF ALL POWER SOURCE WIRING IN ACCORDANCE WITH ARCHITECTURAL MILLWORK.
B. ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTION TO H.V.A.C EQUIPMENT, PLUMBING EQUIPMENT, REFER TO PANEL SCHEDULE FOR WIRE SIZE.
C. ELECTRICAL CONTRACTOR SHALL PROVIDE STARTERS, RELAYS, CONTACTORS AND THE REQUIRED ELECTRICAL ACCESSORIES FOR MECHANICAL SYSTEM AS REQUIRED.
D. COORDINATE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT IN ACCORDANCE W/MECHANICAL DRAWINGS TO MEET ELECTRICAL AND MECHANICAL REQUIRED CLEARANCE BY THE LATEST CODE.
E. COORDINATE EXACT LOCATION OF ISOLATED OUTLETS FOR COMPUTERS WITH OWNER.
F. ELECTRICAL CONTRACTOR SHALL PROVIDE J-BOX AND CONDUIT FOR H.V.A.C. CONTROLS AND THERMOSTATS. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
G. NEMA RATED OUTLETS. REFER TO BREAKER SIZE AND COORDINATE WITH EQUIPMENT REQUIREMENTS PRIOR TO BID.

ELECTRICAL KEYNOTES

1	PROVIDE POWER AND DATA @42" AFF FOR TIME CLOCK. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ANY ROUGH-INS.
2	ROUTE THRU NEAREST WALL. ALL CONDUIT MUST BE CONCEALED. COORDINATE WITH CONTRACTOR PRIOR TO COMMENCING ANY WORK.
3	COORDINATE EXACT LOCATION OF FLOOR OUTLET WITH ARCHITECT AND SPECIAL SYSTEMS CONTRACTOR PRIOR TO COMMENCING ANY WORK.
4	PROVIDE ELECTRICAL FOR BULLETPROOF GLASS MICROPHONE NORCOM TTU-1ABX TALK THRU SYSTEM. REFER TO MANUFACTURER SUPPLIER FOR INSTALLATION.
5	PROVIDE J-BOX 1.25"C ABOVE CIELING TILE FOR MICROPHONES,USER INTERFACE AND AUDIO REINFORCEMENT.
6	PROVIDE ISOLATED GROUND RECEPTACLE FOR CAMERA.
7	PROVIDE J-BOX 1.25"C @6'-0" FOR CONFERENCE CAMERA AND VIDEO.
8	TIE INTO ROOMS LIGHTING CIRCUIT AND INTERLOCK FAN WITH ROOMS LIGHTS. WIRING SHALL BE 2#12, 1#12G, 1/2"C.
9	FAN TO BE CONTROLLED VIA ROTARY TIMER DIAL SWITCH, 0-60 MINS, LABELED "VENT FAN".
10	FAN TO BE CONTROLLED VIA SWITCH LABELED "VENT FAN".
11	PROVIDE POWER FLOOR BOX FOR FACE TEMPERATURE SENSOR. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ANY WORK.

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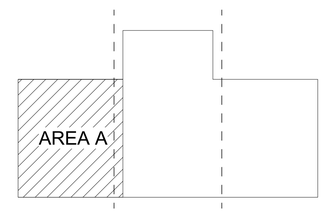

KEY PLAN

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ARCHITECT
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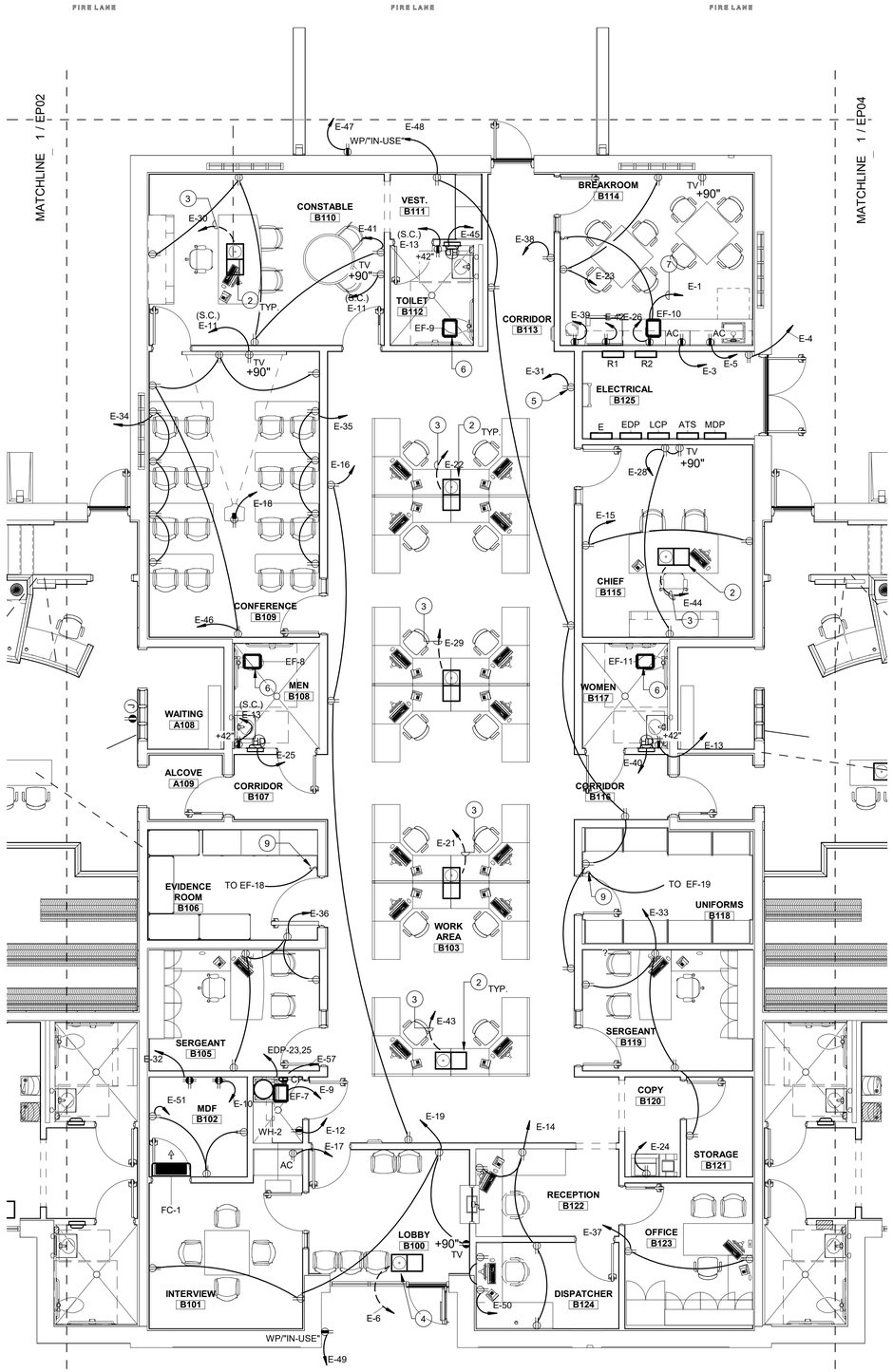
ELECTRICAL POWER
JP PCT 4 PL 1

EP02



ELECTRICAL POWER FLOOR PLAN - CONSTABLE PCT 4

3/16" = 1'-0"

1

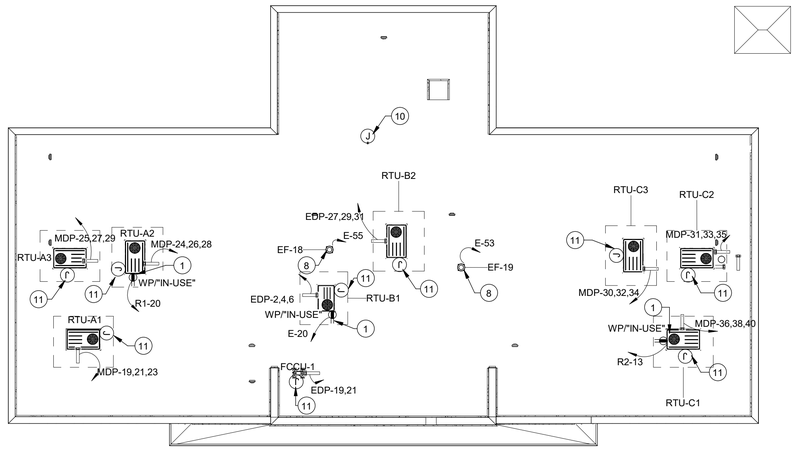
N

GENERAL NOTES- POWER

A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF ALL POWER SOURCE WIRING IN ACCORDANCE WITH ARCHITECTURAL MILLWORK.
B. ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTION TO H.V.A.C EQUIPMENT, PLUMBING EQUIPMENT, REFER TO PANEL SCHEDULE FOR WIRE SIZE.
C. ELECTRICAL CONTRACTOR SHALL PROVIDE STARTERS, RELAYS, CONTACTORS AND THE REQUIRED ELECTRICAL ACCESSORIES FOR MECHANICAL SYSTEM AS REQUIRED.
D. COORDINATE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT IN ACCORDANCE W/MECHANICAL DRAWINGS TO MEET ELECTRICAL AND MECHANICAL REQUIRED CLEARANCE BY THE LATEST CODE.
E. COORDINATE EXACT LOCATION OF ISOLATED OUTLETS FOR COMPUTERS WITH OWNER.
F. ELECTRICAL CONTRACTOR SHALL PROVIDE J-BOX AND CONDUIT FOR H.V.A.C. CONTROLS AND THERMOSTATS. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
G. NEMA RATED OUTLETS. REFER TO BREAKER SIZE AND COORDINATE WITH EQUIPMENT REQUIREMENTS PRIOR TO BID.

ELECTRICAL KEYNOTES

1	GFI DUPLEX RECEPTACLE LOCATED ON ROOF. PROVIDE ROOF PITCH PAN FOR CONDUIT.PROVIDE WP/"IN-USE" ENCLOSURE FOR RECEPTACLE.
2	COORDINATE EXACT LOCATION OF FLOOR OUTLET WITH ARCHITECT AND SPECIAL SYSTEMS CONTRACTOR PRIOR TO COMMENCING ANY WORK.
3	ROUTE THRU NEAREST WALL. ALL CONDUIT MUST BE CONCEALED. COORDINATE WITH CONTRACTOR PRIOR TO COMMENCING ANY WORK.
4	PROVIDE POWER FLOOR BOX FOR FACE TEMPERATURE SENSOR. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ANY WORK.
5	PROVIDE POWER AND DATA FOR KEY STORAGE. COORDINAE EXACT MOUNTING HEIGHT WITH OWNER PRIOR TO ANY WORK.
6	TIE INTO ROOMS LIGHTING CIRCUIT AND INTERLOCK FAN WITH ROOMS LIGHTS. WIRING SHALL BE 2#12, 1#12G, 1/2"C.
7	FAN TO BE CONTROLLED VIA ROTARY TIMER DIAL SWITCH, 0-60 MINS, LABELED "VENT FAN".
8	FAN TO BE CONTROLLED VIA SWITCH LABELED "VENT FAN".
9	SWITCH LABELED "VENT-FAN" TO CONTROL FAN. REFER TO ROOF PLAN.
10	PROPOSED MOUNTING PIPE LOCATION FOR ANTENNA. ANTENNA TO BE PROVIDED BY OTHERS.
11	PROVIDE J-BOX WITH3/4"C FOR HVAC CONTROLS. CONDUIT TO ROUTE TO MDF ROOM.



ELECTRICAL ROOF PLAN

1/16" = 1'-0"

2

N

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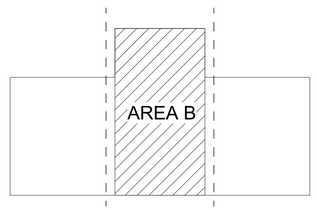

KEY PLAN

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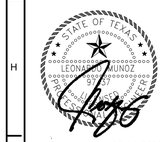

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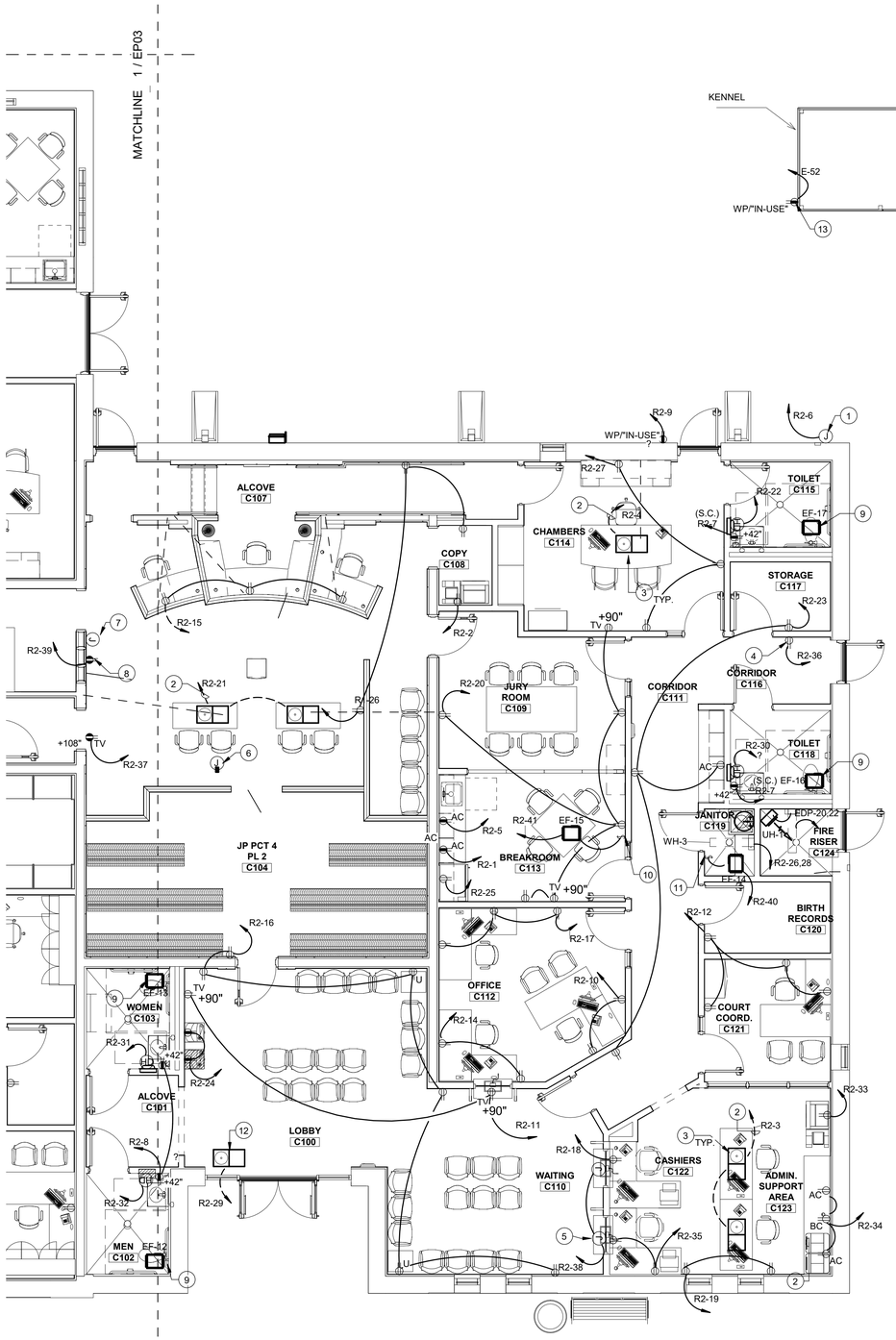
ELECTRICAL POWER CONSTABLE PCT 4

EP03



ELECTRICAL POWER FLOOR PLAN - JP PCT 4 PL 2

3/16" = 1'-0"

GENERAL NOTES- POWER

A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF ALL POWER SOURCE WIRING IN ACCORDANCE WITH ARCHITECTURAL MILLWORK.
B. ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTION TO H.V.A.C EQUIPMENT, PLUMBING EQUIPMENT, REFER TO PANEL SCHEDULE FOR WIRE SIZE.
C. ELECTRICAL CONTRACTOR SHALL PROVIDE STARTERS, RELAYS, CONTACTORS AND THE REQUIRED ELECTRICAL ACCESSORIES FOR MECHANICAL SYSTEM AS REQUIRED.
D. COORDINATE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT IN ACCORDANCE W/MECHANICAL DRAWINGS TO MEET ELECTRICAL AND MECHANICAL REQUIRED CLEARANCE BY THE LATEST CODE.
E. COORDINATE EXACT LOCATION OF ISOLATED OUTLETS FOR COMPUTERS WITH OWNER.
F. ELECTRICAL CONTRACTOR SHALL PROVIDE J-BOX AND CONDUIT FOR H.V.A.C. CONTROLS AND THERMOSTATS. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
G. NEMA RATED OUTLETS, REFER TO BREAKER SIZE AND COORDINATE WITH EQUIPMENT REQUIREMENTS PRIOR TO BID.

ELECTRICAL KEYNOTES

1	PROVIDE J-BOX FOR IRRIGATION CONTROLLER. FIELD VERIFY EXACT LOCATION PRIOR TO ANY WORK.
2	ROUTE THRU NEAREST WALL. ALL CONDUIT MUST BE CONCEALED. COORDINATE WITH CONTRACTOR PRIOR TO COMMENCING ANY WORK.
3	COORDINATE EXACT LOCATION OF FLOOR OUTLET WITH ARCHITECT AND SPECIAL SYSTEMS CONTRACTOR PRIOR TO COMMENCING ANY WORK.
4	PROVIDE POWER AND DATA @42" AFF FOR TIME CLOCK. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ANY ROUGH-INS.
5	PROVIDE ELECTRICAL FOR BULLETPROOF GLASS MICROPHONE NORCOM TTU-1ABX TALK THRU SYSTEM. REFER TO MANUFACTURER SUPPLIER FOR INSTALLATION.
6	PROVIDE J-BOX 1.25"C ABOVE CIELING TILE FOR MICROPHONES,USER INTERFACE AND AUDIO REINFORCEMENT.
7	PROVIDE J-BOX 1.25"C @6'-0" FOR CONFERENCE CAMERA AND VIDEO.
8	PROVIDE ISOLATED GROUND RECEPTACLE FOR CAMERA.
9	TIE INTO ROOMS LIGHTING CIRCUIT AND INTERLOCK FAN WITH ROOMS LIGHTS. WIRING SHALL BE 2#12, 1#12G, 1/2"C.
10	FAN TO BE CONTROLLED VIA ROTARY TIMER DIAL SWITCH, 0-60 MINS, LABELED "VENT FAN".
11	FAN TO BE CONTROLLED VIA SWITCH LABELED "VENT FAN".
12	PROVIDE POWER FLOOR BOX FOR FACE TEMPERATURE SENSOR. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ANY WORK.
13	PROVIDE PEDESTAL RECEPTACLE AT KENNEL LOCATION TO BE MOUNTED AT 36" COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ANY WORK.

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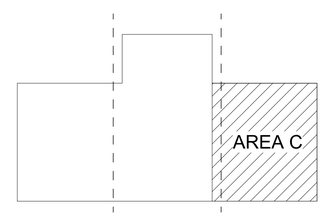

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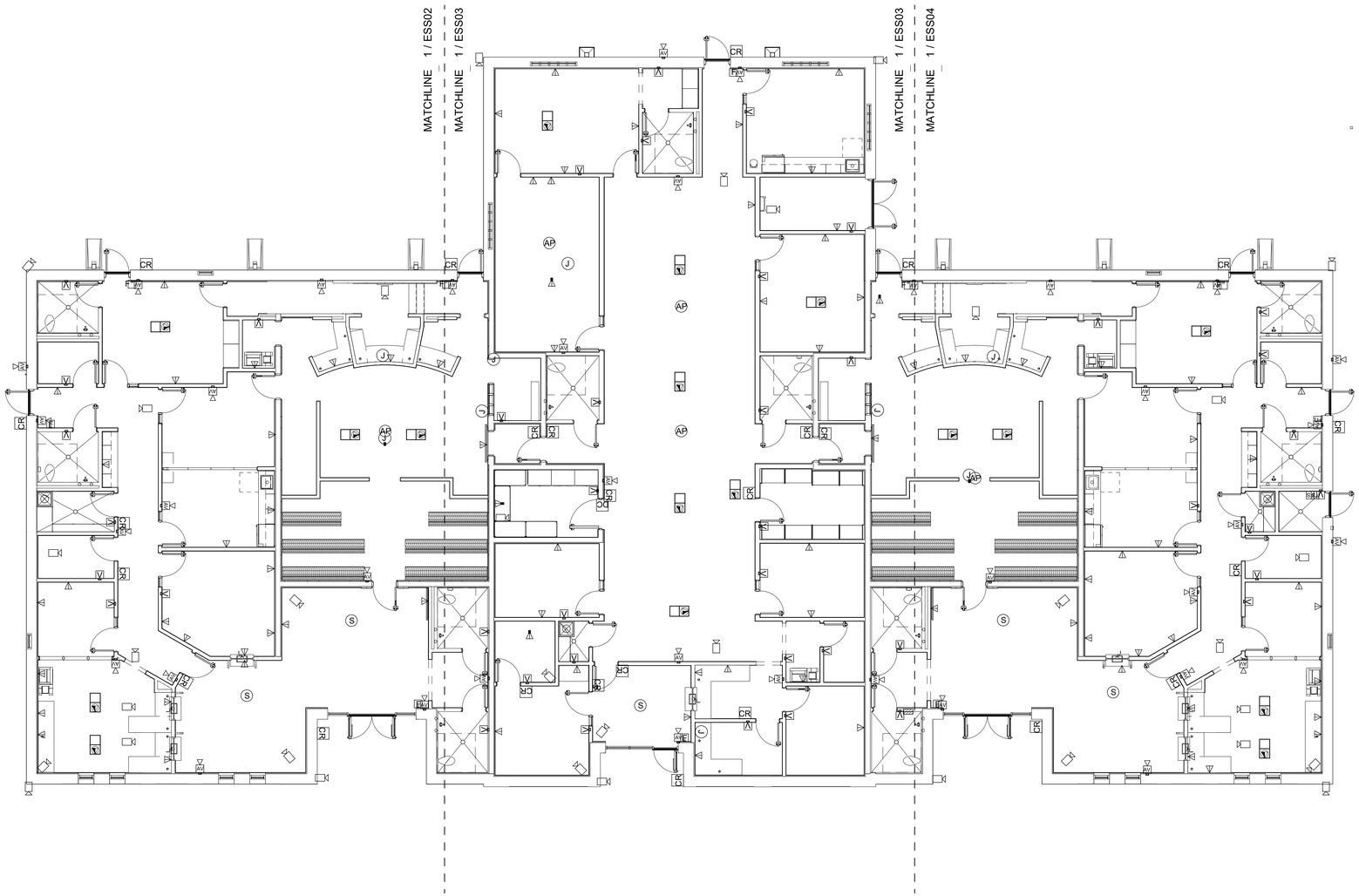
ELECTRICAL POWER
JP PCT 4 PL 2

EP04



GENERAL NOTES - SPECIAL SYSTEMS

A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF ALL POWER SOURCE WIRING IN ACCORDANCE WITH ARCHITECTURAL MILLWORK.
B. PROVIDE CLEAR VANDAL COVER WITH STOPPER II OPTION FOR ALL FIRE ALARM PULL STATIONS.
C. EQUIPMENT AS FURNISHED OF A SINGLE MANUFACTURER.
D. COORDINATE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT IN ACCORDANCE MECHANICAL DRAWINGS.
E. ALL CONDITS SHALL REAMED AND COMPLETE WITH CONNECTORS AND INSULATED BUSHINGS AT BOTH ENDS.
F. ALL DEVICES SHOWN ON DRAWINGS ARE SYMBOLIC ONLY. THE ENTIRE FIRE ALARM SYSTEM, SHALL BE IN FULL COMPLIANCE AND MEET ALL CODES AND EQUIREMENTS OF THE LOCAL ADMINISTRATIVE AUTHORITY. ANY MODIFICATIONS REQUIRED TO PROVIDE COMPLIANCE SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER OR ARCHITECT/ ENGINEER.

ELECTRICAL SPECIAL SYSTEMS OVER ALL FLOOR PLAN - JUSTICE CENTER

1/8" = 1'-0"

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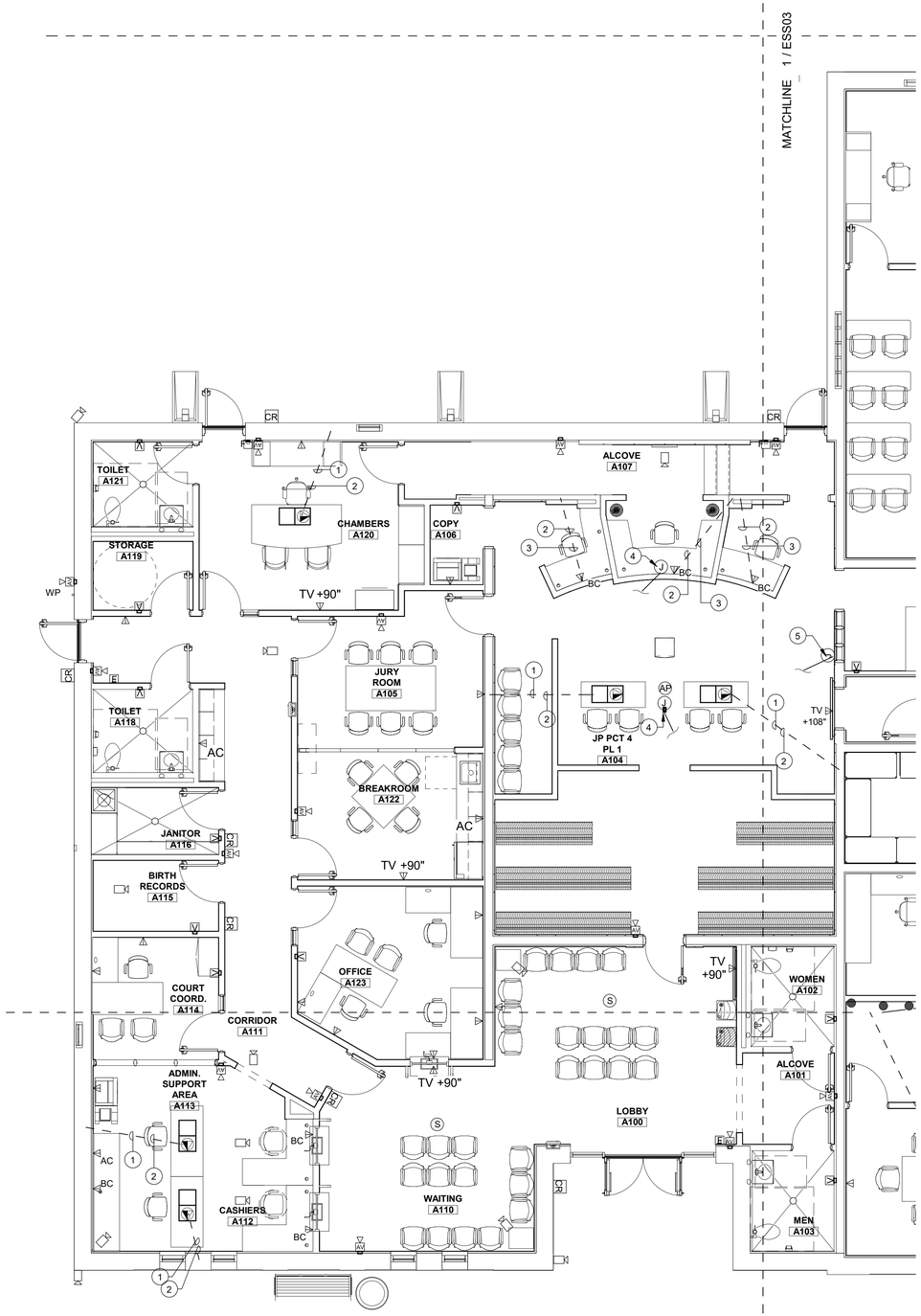
ELECTRCAL SPECIAL SYSTEMS FLOOR PLAN

ESS01



ELECTRICAL SPECIAL SYSTEMS FLOOR PLAN - JP PCT 4 PL 1

3/16" = 1'-0"

GENERAL NOTES - SPECIAL SYSTEMS

A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF ALL POWER SOURCE WIRING IN ACCORDANCE WITH ARCHITECTURAL MILLWORK.
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ELECTRICAL KEYNOTES

1	PROVIDE 2"C WITH PULLSTRING FOR DATA, STUB IN WALL TO ABOVE CEILING LEVEL.
2	ROUTE THRU NEAREST WALL. ALL CONDUIT MUST BE CONCEALED. COORDINATE WITH CONTRACTOR PRIOR TO COMMENCING ANY WORK.
3	PROVIDE 1.25"C WITH PULLSTRING FOR DATA STUB IN WALL TO CEILING LEVEL.
4	PROVIDE 4X4X4 BOX ABOVE THE CIELING WITH BLANK COVER PLATE. PROVIDE 1.25"C WITH PULLSTRING TO A/V SYSTEM LOCATION IN MDF.
5	PROVIDE 2-GANG DEEP BOX FLUSH IN WALL @6'-0" AFF WITH BLANK WALL PLATE. PROVIDE 1.25"C WITH PULLSTRING TO A/V SYSTEM LOCATION IN MDF.

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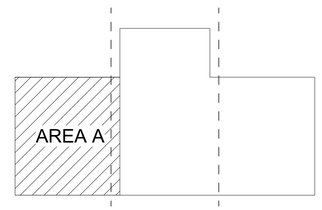

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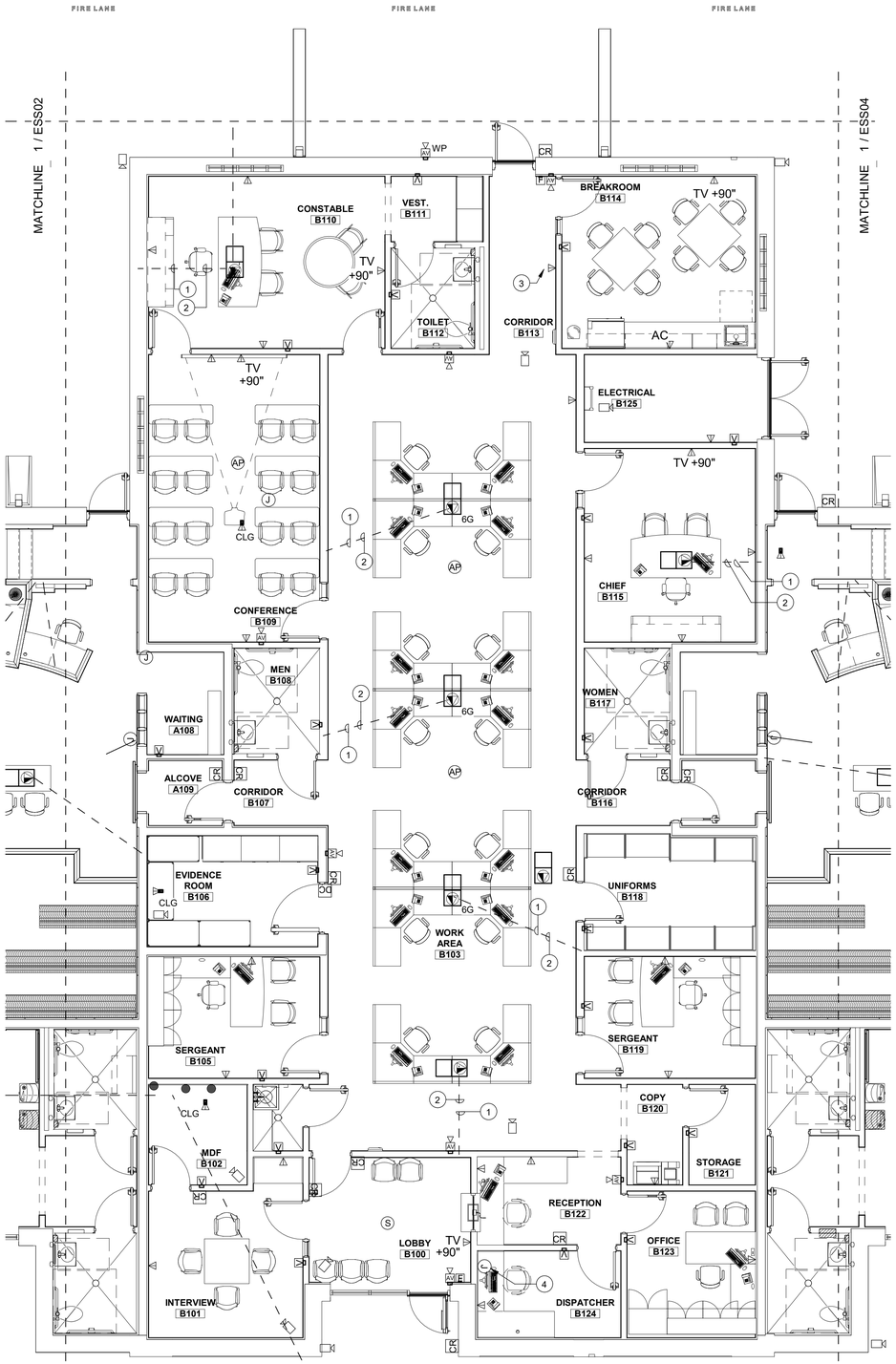
ELECTRICAL SPECIAL SYSTEMS JP PCT 4 PL 1

ESS02



ELECTRICAL SPECIAL SYSTEMS FLOOR PLAN - CONSTABLE PCT 4

3/16" = 1'-0"

1

N

GENERAL NOTES - SPECIAL SYSTEMS

A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF ALL POWER SOURCE WIRING IN ACCORDANCE WITH ARCHITECTURAL MILLWORK.
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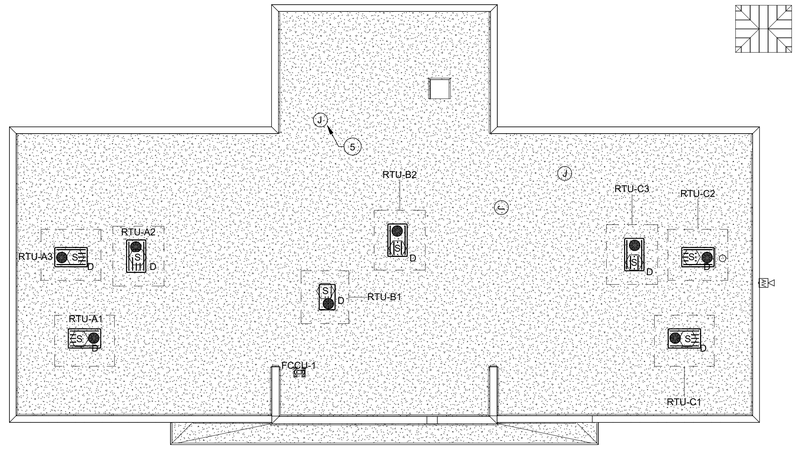
3	PROVIDE POWER AND DATA @42" AFF FOR TIME CLOCK. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ANY ROUGH-INS.
4	PROVIDE 2-GANG DEEP BOX FLUSH IN WALL WITH BLANK PLATE FOR ANTENNA COMMUNICATION. PROVIDE 1.25"C WITH PULLSTRING TO J-BOX SHOWN ON DETAIL #02 KEYED NOTE#5 IN THIS SHEET
5	PROVIDE 2-GANG BOX WITH BLANK PLATE BELOW THE ROOF. PROVIDE ROOF PITCH PAN FOR CONDUIT STUB OUT FOR ANTENNA COMMUNICATION. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT.



ELECTRICAL SPECIAL SYSTEMS ROOF PLAN

1/16" = 1'-0"

2

N

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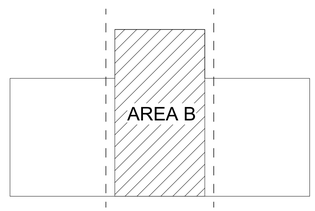

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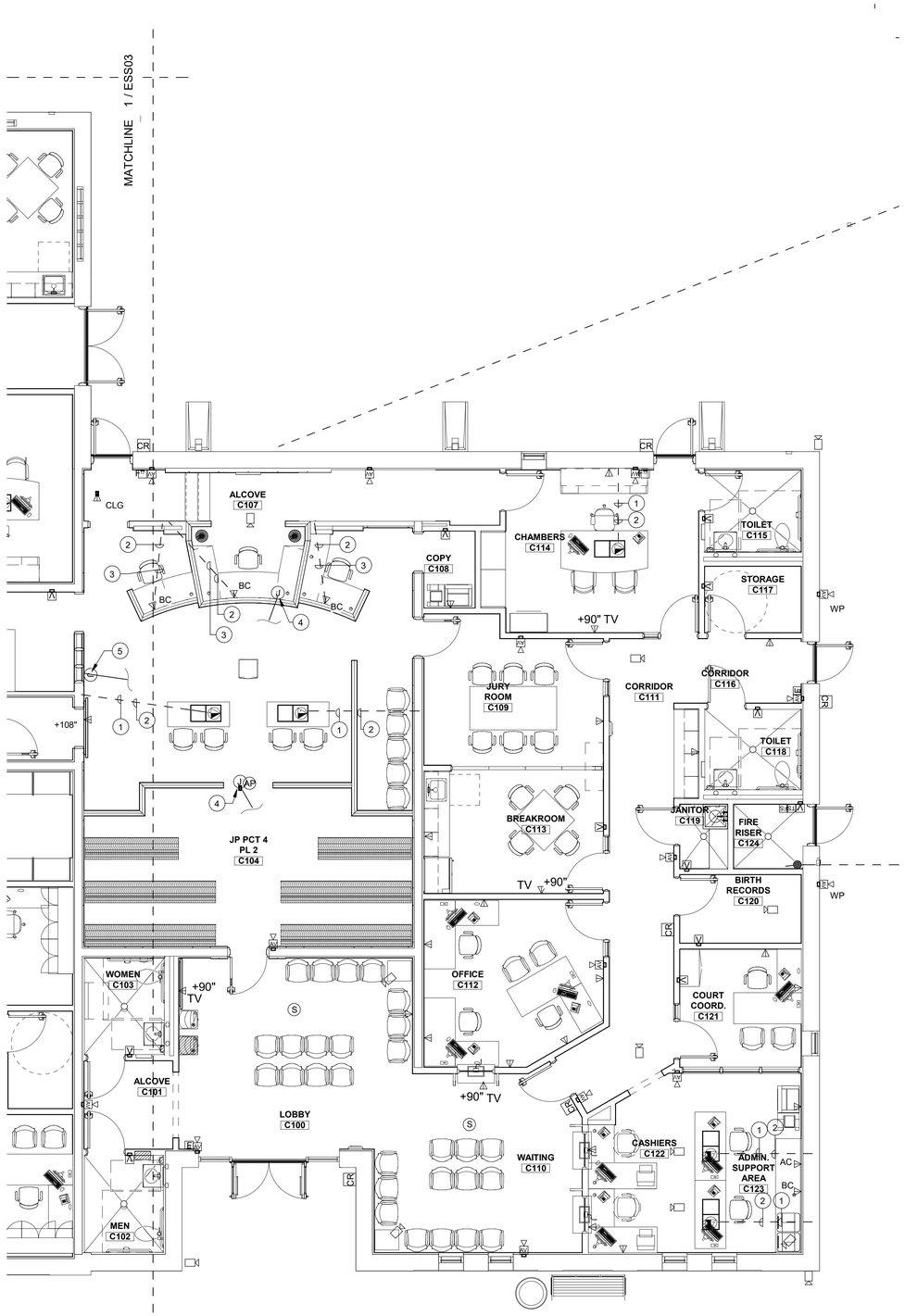
ELECTRICAL SPECIAL SYSTEMS
CONSTABLE PCT 4

ESS03



GENERAL NOTES - SPECIAL SYSTEMS

A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF ALL POWER SOURCE WIRING IN ACCORDANCE WITH ARCHITECTURAL MILLWORK.
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AREA C

KEY PLAN

ELECTRICAL SPECIAL SYSTEMS FLOOR PLAN - JP PCT 4 PL 2

3/16" = 1'-0"

1

N

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REGISTERED ARCHITECT

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ELECTRICAL SPECIAL SYSTEMS JP PCT 4 PL 2

ESS04

GENERAL NOTES:

A. PROVIDE GROUND /BONDING AS INDICATED ON THE NATIONAL ELECTRICAL CODE.

B. NAME PLATES SHALL BE PROVIDED FOR ALL ELECTRICAL SWITCH GEAR, PANEL BOARDS, LIGHTING CONTACTORS, LIGHTING CONTROL PANELS, ETC.. BY ELECTRICAL CONTRACTOR.

C. NEW ELECTRICAL METERING AND SERVICE EQUIPMENT SHALL BE PROVIDED AND INSTALLED ACCORDING TO THE LOCAL POWER UTILITY CO. AND CITY REQUIREMENTS. VERIFY AND COORDINATE WITH POWER UTILITY CO. AND AHJ BEFORE BID AND INSTALLATION.

D. COMPLY WITH NFPA 70E SAFETY REQUIREMENTS.

E. PANELBOARDS WITH MORE THAN 42 CIRCUITS SHALL BE IN ONE CABINET ENCLOSURE, UNLESS OTHERWISE NOTED.

F. PROVIDE 4"CONCRETE PAD FOR ALL DRY-TYPE TRANSFORMERS.

G. ALL TWO SECTION PANELBOARDS SHALL BE FEED THRU LUGS.

H. CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY OF ELECTRICAL SERVICE TO THE NEW BUILDING WITHIN PROJECT SCHEDULE. COORDINATE ALL COST FOR LABOR AND MATERIALS WITH LOCAL ELECTRICAL UTILITY COMPANY PRIOR TO BID. ALL COST ASSOCIATED WITH THE DELIVERY OF ELECTRICAL SERVICE INCLUDING ALL MATERIALS SHALL BE INCLUDED IN BID. TRANSITION OF NEW ELECTRICAL SERVICE SHALL PROCEED IN WEEKENDS OR HOLIDAYS, INCLUDE ALL COST IN BID FOR OVERTIME FROM ELECTRIC UTILITY COMPANY. NO ADDITIONAL PAYMENT WILL BE MADE FOR SERVICE DELIVERY COSTS AFTER CONTRACT HAS BEEN AWARDED.

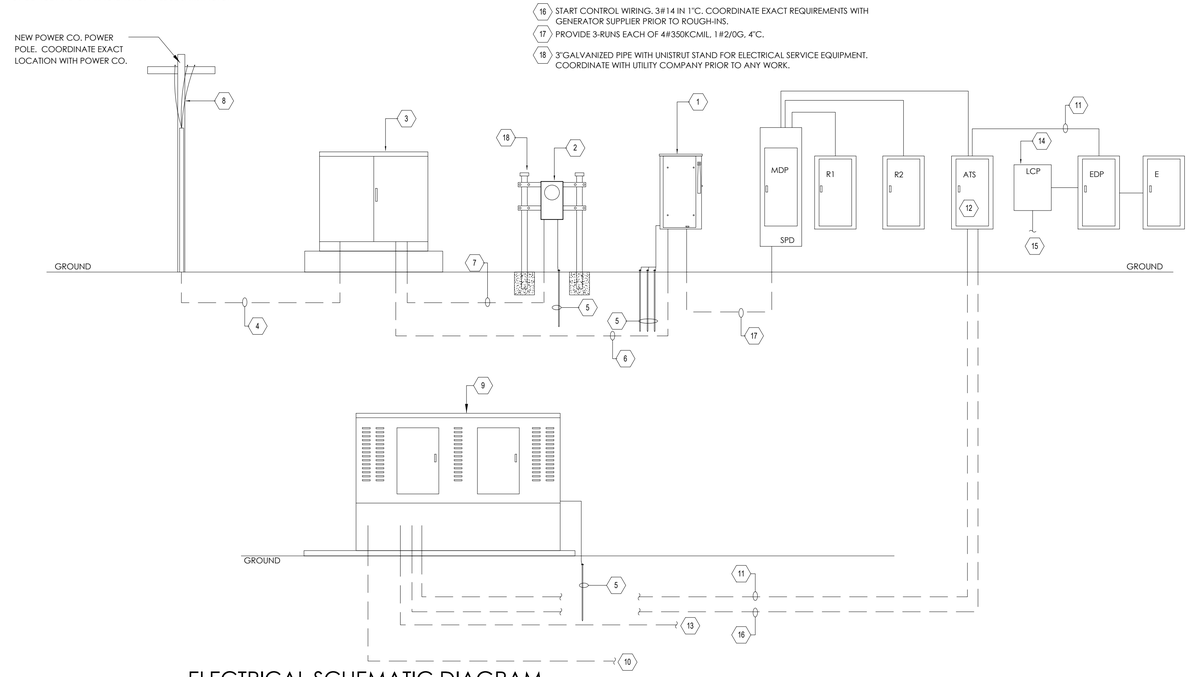
I. THE CONTRACTOR SHALL FURNISH SHORT-CIRCUIT AND PROTECTION DEVICE COORDINATE STUDIES WHICH SHALL BE PREPARED BY THE EQUIPMENT GEAR MANUFACTURER.

J. THE CONTRACTOR SHALL FURNISH AN ARC FLASH HAZARD ANALYSIS STUDY PER NFPA 70E-STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE. REFERENCE ARTICLE 130.3 AND ANEEX D.

K. CONTRACTOR SHALL INCLUDE ALL COST TO PROVIDE SHORT CIRCUIT AND PROTECTIVE DEVICE. THE SHORT-CURCUIT AND PROTECTIVE DEVICE COORDINATE STUDIES SHALL BE SUBMITTED TO THE DESIGN ENGINEER PRIOR TO RECEIVING FINAL APPROVAL OF THE DISTRIBUTION EQUIPMENT SHOP DRAWINGS AND/OR PRIOR TO RELEASE OF EQUIPMENT DRAWINGS FOR MANUFACTURING. APPROVAL FROM THE ENGINEER MAY BE OBTAINED FOR PRELIMINARILY SUBMITTAL OF SUFFICIENT STUDY DATA TO ENSURE THAT THE SELECTION OF DEVICE AND CHARACTERISTICS WILL BE SATISFACTORY.

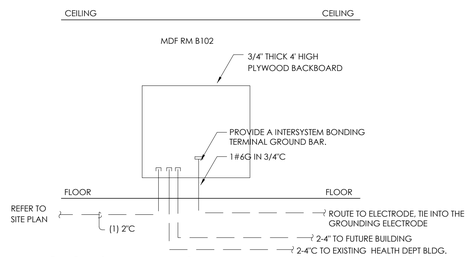
ELECTRICAL RISER DIAGRAM KEYED NOTES:

1. PROVIDE 1000AMPS, 208V, 3-PHASE, 4W, S/N, N3R, HEAVY DUTY FUSED SERVICE ENTRANCE DISCONNECT, FUSED@900AMPS.
2. NEW ELECTRICAL SERVICE METER 120/208V, 3-PHASE, 4W. CONTRACTOR SHALL PROVIDE METER BASE. VERIFY WITH POWER FOR METER BASE REQUIREMENTS PRIOR TO BID DATE. INCLUDE ALL COST IN BID. COORDINATE ALLOCATION OF METER SOCKET AND WIRING WITH POWER COMPANY.
3. NEW POWER COMPANY PAD MOUNT TRANSFORMER 120/208V, 3-PHASE, 4W, PROVIDE CONCRETE PAD AS PER POWER COMPANY REQUIREMENTS.
4. FURNISH AND INSTALL 1-4"C FOR UTILITY PRIMARY RACEWAY TO POWER SOURCE AS DIRECTED BY UTILITY COMPANY. PROVIDE WARNING RIBBONS 12" ABOVE CONDUIT.
5. 1#3/0G IN 1"C, 3/4"X10' COPPER CLAD RODS. PROVIDE GROUNDING AS PER NEC REQUIREMENTS.
6. PROVIDE 3-RUNS EACH 4#350KCMIL, 1#1G, 4"C.
7. PROVIDE 1-2"C WITH PULLSTRING.
8. NEW POWER COMPANY POLE WITH RISER DIP POLE. COORDINATE WITH POWER COMPANY FOR ALL REQUIREMENTS.
9. 150KW,120/208V, 3-PHASE, 4W, 1-400AMP 3-POLE MAIN BREAKER 100% RATED SOLID STATE, U.L. LISTED DIESEL GENERATOR IN A WEATHER PROOF AND LEVEL-1 ACOUSTIC ENCLOSURE, U.L. LISTED DOUBLE WALL 24-HOUR TANK. PROVIDE CONCRETE PAD. GENERATOR ACCEPTABLE MANUFACTURERS ARE AS FOLLOWS: ---
10. PROVIDE 1-1.25"C WITH PULLSTRING FOR REMOTE ANUNNCIATOR, COORDINATE EXACT LOCATION- FOR REMOTE ANUNNCIATOR WITH OWNER PRIOR TO ANY ROUGH-INS. LOCATE FLUSH REMOTE ANUNNCIATOR IN MDF ROOM#B122
11. PROVIDE 1-RUN OF 4#600KCMIL, 1#3G, 4"C.
12. 400AMP, 120/208V, 3-PHASE, 4W, S/N, N3R, U.L. LISTED AUTOMATIC TRANSFER SWITCH EQUAL TO MFR. ASCO.
13. 1-1"C TO PANEL FOR BLOCK HEATER CKT, 1-1"C TO PANEL FOR BATTERY CHARGER CKT. VERIFY WITH EQUIPMENT SUPPLIER FOR START WIRING. REFER TO PANEL SCHEDULES FOR BLOCK HEATER AND BATTERY CHARGER CIRCUITS.
14. LIGHTING CONTROL RELAY PANEL.
15. LIGHTING CIRCUITS CONTROLLED BY RELAY PANEL. REFER TO SCHEDULE.
16. START CONTROL WIRING, 3#14 IN 1"C. COORDINATE EXACT REQUIREMENTS WITH GENERATOR SUPPLIER PRIOR TO ROUGH-INS.
17. PROVIDE 3-RUNS EACH OF 4#350KCMIL, 1#2/0G, 4"C.
18. 3"GALVANIZED PIPE WITH UNISTRUT STAND FOR ELECTRICAL SERVICE EQUIPMENT. COORDINATE WITH UTILITY COMPANY PRIOR TO ANY WORK.



1 ELECTRICAL SCHEMATIC DIAGRAM
SCALE: NTS

120/208V, 3□, 4W ELECTRICAL LOAD ANALYSIS	
DISCRIPTION	TOTAL KVA
LIGHTING	11
GENERAL POWER	95
A/C	149
WATER HEATER	6
TOTAL WATTS:	261 KVA
TOTAL AMPS:	725 AMPS
TOTAL AMPS+25%:	906 AMPS
WIRE SIZE AMPS:	1000 AMPS



2 VOICE/DATA RISER
SCALE: NTS

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12/10/2020

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ELECTRICAL RISER

ER01

Branch Panel: PANEL-MDP

Location: ELECTRICAL B125 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 45
Supply From: PANEL-EDP | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 1000 A
Enclosure: Type 1 | **MCB Rating:** 1000 A

CKT	Circuit Description	Trip	Poles	Comments	A		B		C		Comments	Poles	Trip	Circuit Description	CKT
MDP-1	Spare	20 A	1		0 VA	0 VA					--	1	20 A	Spare	MDP-2
MDP-3	Spare	20 A	1				0 VA	896 VA			2#8, 1#10G,3/4"C	1	20 A	PL2 Lighting	MDP-4
MDP-5	Spare	20 A	1						0 VA	29767 VA	4#600kcmil, 1#3G,4"C	3	400 A	PANEL-EDP VIA ATS	MDP-6
MDP-7	Spare	20 A	1		0 VA	26050 VA					--	--	--	--	MDP-8
MDP-9	PL1 Lighting	20 A	1	2#8, 1#10G,3/4"C			993 VA	28829 VA			--	--	--	--	MDP-10
MDP-11	PL1 Lighting	20 A	1	2#12, 1#12G,1/2"C					587 VA	587 VA	2#12, 1#12G,1/2"C	1	20 A	PL2 Lighting	MDP-12
MDP-13	PANEL-R1	125 A	3	4#1, 1#6G,2"C	11240 VA	45 VA					2#12, 1#12G,1/2"C	1	20 A	Lighting	MDP-14
MDP-15	--	--	--	--			12320 VA	45 VA			2#12, 1#12G,1/2"C	1	20 A	Lighting	MDP-16
MDP-17	--	--	--	--					12560 VA	18700 VA	4#3/0, 1#6G,2"C	3	200 A	PANEL-R2	MDP-18
MDP-19	RTU-A1	50 A	3	4#3, 1#6G,1.5"C	5400 VA	18680 VA					--	--	--	--	MDP-20
MDP-21	--	--	--	--			5400 VA	8780 VA			--	--	--	--	MDP-22
MDP-23	--	--	--	--					5400 VA	5400 VA	4#4, 1#8G,1.5"C	3	45 A	RTU-A2	MDP-24
MDP-25	RTU-A3	60 A	3	4#3, 1#6G,1.5"C	7200 VA	5400 VA					--	--	--	--	MDP-26
MDP-27	--	--	--	--			7200 VA	5400 VA			--	--	--	--	MDP-28
MDP-29	--	--	--						7200 VA	5400 VA	4#4, 1#8G,1.5"C	3	45 A	RTU-C3	MDP-30
MDP-31	RTU-C2	60 A	3	4#4, 1#8G,1.5"C	6960 VA	5400 VA					--	--	--	--	MDP-32
MDP-33	--	--	--	--			6960 VA	5400 VA			--	--	--	--	MDP-34
MDP-35	--	--	--	--					6960 VA	5400 VA	4#4, 1#8G,1.5"C	3	50 A	RTU-C1	MDP-36
MDP-37	Spare	20 A	1		0 VA	5400 VA					--	--	--	--	MDP-38
MDP-39	Spare	20 A	1				0 VA	5400 VA			--	--	--	--	MDP-40
MDP-41	Spare	20 A	1						0 VA	0 VA		1	20 A	Spare	MDP-42
MDP-43	Spare	20 A	1		0 VA	0 VA					--	--	--	Space	MDP-44
MDP-45	Spare	20 A	1				0 VA	0 VA			--	--	--	Space	MDP-46
MDP-47	Spare	20 A	1						0 VA	0 VA	--	--	--	Space	MDP-48
MDP-49	Spare	20 A	1		0 VA	0 VA					--	--	--	Space	MDP-50
MDP-51	Spare	20 A	1				0 VA	0 VA			--	--	--	Space	MDP-52
MDP-53	Spare	20 A	1						0 VA	0 VA	--	--	--	Space	MDP-54
MDP-55	Spare	20 A	1		0 VA	0 VA					--	--	--	Space	MDP-56
MDP-57	Spare	20 A	1				0 VA	0 VA			--	--	--	Space	MDP-58
MDP-59	SPD	30 A	3						0 VA	0 VA	--	--	--	Space	MDP-60
MDP-61	--	--	--	--	0 VA	0 VA					--	--	--	Space	MDP-62
MDP-63	--	--	--	--			0 VA	0 VA			--	--	--	Space	MDP-64
				Total Load:	91771 VA		87616 VA		97919 VA						
				Total Amps:	770 A		730 A		821 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	2400 VA	100.00%	2400 VA		
HVAC	163220 VA	100.00%	163220 VA	**Total Conn. Load:**	277306 VA
Lighting - Exterior	2000 VA	125.00%	2500 VA	**Total Est. Demand:**	251918 VA
Motor	400 VA	125.00%	500 VA	**Total Conn.:**	770 A
Other	5705 VA	100.00%	5705 VA	**Total Est. Demand:**	699 A
Receptacle	65600 VA	57.62%	37800 VA		
Power	4680 VA	100.00%	4680 VA		
Lighting	7366 VA	125.00%	9208 VA		
EMERGENCY LIGHTING	800 VA	100.00%	800 VA		
Hand Dryer	25300 VA	100.00%	25300 VA		

Notes:
1) PROVIDE INTEGRAL SURGE PROTECTION DEVICE, 160KA
2) EDP BREAKER SHALL BE SOLID STATE TYPE AND COORDINATE WITH EMERGENCY SYSTEM.

Branch Panel: PANEL-E

Location: ELECTRICAL B125 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 35
Supply From: PANEL-EDP | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 200 A
Enclosure: Type 1 | **MCB Rating:** 200 A

CKT	Circuit Description	Trip	Poles	Comments	A		B		C		Comments	Poles	Trip	Circuit Description	CKT
E-1	EI-10	20 A	1	2#12, 1#12G,1/2"C	80 VA	2000 VA					2#6, 1#10G,1"C	1	30 A	Gate	E-2
E-3	Receptacle	20 A	1	2#12, 1#12G,1/2"C			180 VA	200 VA			2#12, 1#12G,1/2"C	1	20 A	Receptacle	E-4
E-5	Receptacle	20 A	1	2#12, 1#12G,1/2"C					180 VA	600 VA	2#12, 1#12G,1/2"C	1	20 A	FLOOR BOX	E-6
E-7	Gate	30 A	1	2#4, 1#8G,1.5"C	2000 VA	224 VA					2#12, 1#12G,1/2"C	1	20 A	Lighting	E-8
E-9	EF-7	20 A	1	2#12, 1#12G,1/2"C			80 VA	400 VA			2#12, 1#12G,1/2"C	1	20 A	Receptacle	E-10
E-11	Receptacle	20 A	1	2#12, 1#12G,1/2"C					800 VA	180 VA	2#12, 1#12G,1/2"C	1	20 A	Receptacle	E-12
E-13	Receptacle	20 A	1	2#12, 1#12G,1/2"C	540 VA	800 VA					2#12, 1#12G,1/2"C	1	20 A	Receptacle	E-14
E-15	Receptacle	20 A	1	2#12, 1#12G,1/2"C			400 VA	600 VA			2#12, 1#12G,1/2"C	1	20 A	Receptacle	E-16
E-17	Receptacle	20 A	1	2#12, 1#12G,1/2"C					200 VA	400 VA	2#12, 1#12G,1/2"C	1	20 A	Receptacle	E-18
E-19	Receptacle	20 A	1	2#10, 1#10G,3/4"C	1000 VA	1400 VA					2#8, 1#10G,3/4"C	1	20 A	ROOF RCPT	E-20
E-21	FLOOR BOX	20 A	1	2#12, 1#12G,1/2"C			600 VA	600 VA			2#12, 1#12G,1/2"C	1	20 A	FLOOR BOX	E-22
E-23	Receptacle	20 A	1	2#12, 1#12G,1/2"C					400 VA	600 VA	2#12, 1#12G,1/2"C	1	20 A	Receptacle	E-24
E-25	Hand Dryer	25 A	1	2#8, 1#10G,3/4"C	2300 VA	180 VA					2#12, 1#12G,1/2"C	1	20 A	Receptacle	E-26
E-27	EMERGENCY LIGHTING	20 A	1	2#12, 1#12G,1/2"C			800 VA	800 VA			2#12, 1#12G,1/2"C	1	20 A	Receptacle	E-28
E-29	FLOOR BOX	20 A	1	2#12, 1#12G,1/2"C					600 VA	600 VA	2#12, 1#12G,1/2"C	1	20 A	FLOOR BOX	E-30
E-31	Receptacle	20 A	1	2#12, 1#12G,1/2"C	200 VA	400 VA					2#12, 1#12G,1/2"C	1	20 A	Receptacle	E-32
E-33	Receptacle	20 A	1	2#12, 1#12G,1/2"C			800 VA	800 VA			2#12, 1#12G,1/2"C	1	20 A	Receptacle	E-34
E-35	Receptacle	20 A	1	2#12, 1#12G,1/2"C					800 VA	800 VA	2#10, 1#10G,3/4"C	1	20 A	Receptacle	E-36
E-37	Receptacle	20 A	1	2#12, 1#12G,1/2"C	400 VA	600 VA					2#12, 1#12G,1/2"C	1	20 A	Receptacle	E-38
E-39	Receptacle	20 A	1	2#12, 1#12G,1/2"C			1200 VA	2300 VA			2#10, 1#10G,3/4"C	1	25 A	Hand Dryer	E-40
E-41	Receptacle	20 A	1	2#12, 1#12G,1/2"C					800 VA	1200 VA	2#12, 1#12G,1/2"C	1	20 A	Receptacle	E-42
E-43	FLOOR BOX	20 A	1	2#12, 1#12G,1/2"C	600 VA	600 VA					2#12, 1#12G,1/2"C	1	20 A	FLOOR BOX	E-44
E-45	Hand Dryer	25 A	1	2#10, 1#10G,3/4"C			2300 VA	800 VA			2#12, 1#12G,1/2"C	1	20 A	Receptacle	E-46
E-47	Receptacle	20 A	1	2#10, 1#10G,3/4"C					1500 VA	1200 VA	2#12, 1#12G,1/2"C	1	20 A	Receptacle	E-48
E-49	Receptacle	20 A	1	2#8, 1#10G,3/4"C	1500 VA	400 VA					2#12, 1#12G,1/2"C	1	20 A	Receptacle	E-50
E-51	Receptacle	20 A	1	2#12, 1#12G,1/2"C			600 VA	0 VA				1	20 A	Spare	E-52
E-53	HVAC	20 A	1	2#12, 1#12G,1/2"C					0 VA	0 VA		1	20 A	Spare	E-54
E-55	HVAC	20 A	1	2#12, 1#12G,1/2"C	0 VA	0 VA						1	20 A	Spare	E-56
E-57	CP-1	20 A	1	2#12, 1#12G,1/2"C			400 VA	0 VA				1	20 A	Spare	E-58
E-59	Spare	20 A	1						0 VA	0 VA		1	20 A	Spare	E-60
E-61	Spare	20 A	1		0 VA	0 VA						1	20 A	Spare	E-62
E-63	Spare	20 A	1				0 VA	0 VA				1	20 A	Spare	E-64
				Total Load:	15224 VA		13822 VA		10860 VA						
				Total...	131 A		119 A		91 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	0 VA	0.00%	0 VA		
Motor	400 VA	125.00%	500 VA	**Total Conn. Load:**	39905 VA
Other	4000 VA	100.00%	4000 VA	**Total Est. Demand:**	32031 VA
Receptacle	26060 VA	69.19%	18030 VA	**Total Conn.:**	111 A
Power	1560 VA	100.00%	1560 VA	**Total Est. Demand:**	89 A
Lighting	224 VA	125.00%	280 VA		
EMERGENCY LIGHTING	800 VA	100.00%	800 VA		
Hand Dryer	6900 VA	100.00%	6900 VA		

Notes:

Branch Panel: PANEL-EDP

Location: ELECTRICAL B125 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 35
Supply From: PANEL-MDP | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 400 A
Enclosure: Type 1 | **MCB Rating:** 400 A

CKT	Circuit Description	Trip	Poles	Comments	A		B		C		Comments	Poles	Trip	Circuit Description	CKT
EDP-1	PL2 Lighting	20 A	1	2#12, 1#12G,1/2"C	349 VA	5040 VA					4#6, 1#10G,1"C	3	45 A	RTU-B1	EDP-2
EDP-3	PL1 Lighting	20 A	1	2#12, 1#12G,1/2"C			349 VA	5040 VA			--	--	--	--	EDP-4
EDP-5	Lighting	20 A	1	2#12, 1#12G,1/2"C					18 VA	5040 VA	--	--	--	--	EDP-6
EDP-7	Lighting	20 A	1	2#10, 1#10G,3/4"C	827 VA	789 VA					2#12, 1#12G,1/2"C	1	20 A	Lighting	EDP-8
EDP-9	Lighting	20 A	1	2#12, 1#12G,1/2"C			766 VA	1118 VA			2#8, 1#10G,3/4"C	1	20 A	Exterior Lighting	EDP-10
EDP-11	PANEL-E	150 A	3	4#2/0, 1#6G,2"C					15224 VA	800 VA	2#8, 1#10G,3/4"C	1	20 A	Lighting - Exterior	EDP-12
EDP-13	--	--	--	--	13822 VA	54 VA					2#12, 1#12G,1/2"C	1	20 A	Monument Lighting	EDP-14
EDP-15	--	--	--	--			10860 VA	60 VA			2#12, 1#12G,1/2"C	1	20 A	Flag Lighting	EDP-16
EDP-17	Site Lighitng	20 A	1	2#12, 1#12G,1/2"C					400 VA	800 VA	2#10, 1#10G,3/4"C	1	20 A	Site Lighting	EDP-18
EDP-19	FCCU-1	20 A	2	3#10, 1#10G,3/4"C	1250 VA	1000 VA					3#10, 1#10G,3/4"C	2	20 A	Unit Heater	EDP-20
EDP-21	--	--	--	--			1250 VA	1000 VA			--	--	--	--	EDP-22
EDP-23	Water heater	20 A	2	3#12, 1#12G,1/2"C					1000 VA	0 VA		1	20 A	GENERATOR BATTERY	EDP-24
EDP-25	--	--	--	--	1000 VA	0 VA						2	30 A	GENERATOR HEATER	EDP-26
EDP-27	RTU-B2	90 A	3	4#1, 1#6G,1.5"C			5640 VA	0 VA			--	--	--	--	EDP-28
EDP-29	--	--	--	--					5640 VA	0 VA		1	20 A	Spare	EDP-30
EDP-31	--	--	--	--	5640 VA	0 VA						1	20 A	Spare	EDP-32
EDP-33	Spare	20 A	1				0 VA	0 VA				1	20 A	Spare	EDP-34
EDP-35	Spare	20 A	1						0 VA	0 VA		1	20 A	Spare	EDP-36
EDP-37	1) SPD	30 A	3		0 VA	0 VA						1	20 A	Spare	EDP-38
EDP-39	--	--	--	--			0 VA	0 VA				1	20 A	Spare	EDP-40
EDP-41	--	--	--	--					0 VA	0 VA		1	20 A	Spare	EDP-42
				Total Load:	29767 VA		26050 VA		28829 VA						
				Total Amps:	252 A		217 A		244 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	38540 VA	100.00%	38540 VA		
Lighting - Exterior	2000 VA	125.00%	2500 VA	**Total Conn. Load:**	84644 VA
Motor	400 VA	125.00%	500 VA	**Total Est. Demand:**	78251 VA
Other	4286 VA	100.00%	4286 VA	**Total Conn.:**	235 A
Receptacle	26060 VA	69.19%	18030 VA	**Total Est. Demand:**	217 A
Power	1560 VA	100.00%	1560 VA		
Lighting	4238 VA	125.00%	5298 VA		
EMERGENCY LIGHTING	800 VA	100.00%	800 VA		
Hand Dryer	6900 VA	100.00%	6900 VA		

Notes:
1) PROVIDE INTEGRAL SURGE PROTECTION DEVICE, 120KA
2) BREAKER SHALL BE SOLID STATE 100% RATED.

Branch Panel: PANEL-R2

Location: ELECTRICAL B125 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 18
Supply From: PANEL-MDP | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 200 A
Enclosure: Type 1 | **MCB Rating:** 200 A

CKT	Circuit Description	Trip	Poles	Comments	A		B		C		Comments	Poles	Trip	Circuit Description	CKT
R2-1	Receptacle	20 A	1	2#12, 1#12G,1/2"C	180 VA	200 VA					2#12, 1#12G,1/2"C	1	20 A	Receptacle	R2-2
R2-3	Receptacle	20 A	1	2#8, 1#10G,3/4"C			1200 VA	600 VA			2#12, 1#12G,1/2"C	1	20 A	Other	R2-4
R2-5	Receptacle	20 A	1	2#12, 1#12G,1/2"C					180 VA	620 VA	2#12, 1#12G,1/2"C	1	20 A	Other	R2-6
R2-7	Receptacle	20 A	1	2#12, 1#12G,1/2"C	360 VA	360 VA					2#12, 1#12G,1/2"C	1	20 A	Receptacle	R2-8
R2-9	Receptacle	20 A	1	2#10, 1#10G,3/4"C			1500 VA	400 VA			2#12, 1#12G,1/2"C	1	20 A	Receptacle	R2-10
R2-11	Receptacle	20 A	1	2#10, 1#10G,3/4"C					800 VA	800 VA	2#10, 1#10G,3/4"C	1	20 A	Receptacle	R2-12
R2-13	Power	20 A	1	2#6, 1#10G,1"C	1400 VA	400 VA					2#12, 1#12G,1/2"C	1	20 A	Receptacle	R2-14
R2-15	Receptacle	20 A	1	2#12, 1#12G,1/2"C			600 VA	1200 VA			2#8, 1#10G,3/4"C	1	20 A	Receptacle	R2-16
R2-17	Receptacle	20 A	1	2#12, 1#12G,1/2"C					600 VA	200 VA	2#12, 1#12G,1/2"C	1	20 A	Receptacle	R2-18
R2-19	Receptacle	20 A	1	2#12, 1#12G,1/2"C	400 VA	1600 VA					2#8, 1#10G,3/4"C	1	20 A	Receptacle	R2-20
R2-21	Other	20 A	1	2#10, 1#10G,3/4"C			1200 VA	2300 VA			2#6, 1#10G,1"C	1	20 A	Hand Dryer	R2-22
R2-23	Receptacle	20 A	1	2#10, 1#10G,3/4"C					800 VA	1200 VA	2#10, 1#10G,3/4"C	1	20 A	Receptacle	R2-24
R2-25	Equipment	20 A	1	2#10, 1#10G,3/4"C	1200 VA	7200 VA					3#3, 1#6G,1.5"C	2	20 A	Equipment	R2-26
R2-27	Receptacle	20 A	1	2#12, 1#12G,1/2"C			600 VA	7200 VA			--	--	--	--	R2-28
R2-29	Receptacle	20 A	1	2#12, 1#12G,1/2"C					600 VA	2300 VA	2#6, 1#10G,1"C	1	20 A	Hand Dryer	R2-30
R2-31	Hand Dryer	20 A	1	2#6, 1#10G,1"C	2300 VA	2300 VA					2#6, 1#10G,1"C	1	20 A	Hand Dryer	R2-32
R2-33	Receptacle	20 A	1	2#10, 1#10G,3/4"C			600 VA	600 VA			2#10, 1#10G,3/4"C	1	20 A	Receptacle	R2-34
R2-35	Receptacle	20 A	1	2#12, 1#12G,1/2"C					400 VA	200 VA	2#12, 1#12G,1/2"C	1	20 A	Receptacle	R2-36
R2-37	Receptacle	20 A	1	2#12, 1#12G,1/2"C	400 VA	400 VA					2#12, 1#12G,1/2"C	1	20 A	Other	R2-38
R2-39	Receptacle	20 A	1	2#12, 1#12G,1/2"C			600 VA	80 VA			2#12, 1#12G,1/2"C	1	20 A	HVAC	R2-40
R2-41	HVAC	20 A	1	2#12, 1#12G,1/2"C					80 VA	0 VA		1	20 A	Spare	R2-42
				Total Load:	18700 VA		18680 VA		8780 VA						
				Total Amps:	169 A		168 A		73 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	1200 VA	100.00%	1200 VA		
HVAC	14400 VA	100.00%	14400 VA	**Total Conn. Load:**	46160 VA
Other	1020 VA	100.00%	1020 VA	**Total Est. Demand:**	41770 VA
Receptacle	18780 VA	76.62%	14390 VA	**Total Conn.:**	128 A
Power	1560 VA	100.00%	1560 VA	**Total Est. Demand:**	116 A
Hand Dryer	9200 VA	100.00%	9200 VA		

Notes:

Branch Panel: PANEL-R1

Location: ELECTRICAL B125 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 18
Supply From: PANEL-MDP | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 125 A
Enclosure: Type 1 | **MCB Rating:** 125 A

CKT	Circuit Description	Trip	Poles	Comments	A		B		C		Comments	Poles	Trip	Circuit Description	CKT
R1-1	Receptacle	20 A	1	2#12, 1#12G,1/2"C	600 VA	600 VA					2#12, 1#12G,1/2"C	1	20 A	Receptacle	R1-2
R1-3	Receptacle	20 A	1	2#10, 1#10G,3/4"C			600 VA	400 VA			2#12, 1#12G,1/2"C	1	20 A	Receptacle	R1-4
R1-5	Receptacle	20 A	1	2#12, 1#12G,1/2"C					400 VA	600 VA	2#10, 1#10G,3/4"C	1	20 A	Receptacle	R1-6
R1-7	Receptacle	20 A	1	2#8, 1#10G,3/4"C	800 VA	1200 VA					2#6, 1#10G,1"C	1	20 A	Other	R1-8
R1-9	Receptacle	20 A	1	2#12, 1#12G,1/2"C			400 VA	400 VA			2#10, 1#10G,3/4"C	1	20 A	Receptacle	R1-10
R1-11	Receptacle	20 A	1	2#10, 1#10G,3/4"C					600 VA	1200 VA	2#8, 1#10G,3/4"C	1	20 A	Receptacle	R1-12
R1-13	Receptacle	20 A	1	2#12, 1#12G,1/2"C	180 VA	1200 VA					2#8, 1#10G,3/4"C	1	20 A	Equipment	R1-14
R1-15	Receptacle	20 A	1	2#10, 1#10G,3/4"C			540 VA	800 VA			2#10, 1#10G,3/4"C	1	20 A	Receptacle	R1-16
R1-17	Receptacle	20 A	1	2#12, 1#12G,1/2"C					180 VA	1200 VA	2#8, 1#10G,3/4"C	1	20 A	Receptacle	R1-18
R1-19	Receptacle	20 A	1	2#12, 1#12G,1/2"C	360 VA	1400 VA					2#6, 1#10G,1"C	1	20 A	Power	R1-20
R1-21	Other	20 A	1	2#8, 1#10G,3/4"C			1200 VA	600 VA			2#12, 1#12G,1/2"C	1	20 A	Other	R1-22
R1-23	Receptacle	20 A	1	2#10, 1#10G,3/4"C					1000 VA	800 VA	2#10, 1#10G,3/4"C	1	20 A	Receptacle	R1-24
R1-25	Receptacle	20 A	1	2#8, 1#10G,3/4"C	1000 VA	600 VA					2#12, 1#12G,1/2"C	1	20 A	Receptacle	R1-26
R1-27	Receptacle	20 A	1	2#10, 1#10G,3/4"C			600 VA	1500 VA			3#8, 1#10G,3/4"C	2	20 A	Equipment	R1-28
R1-29	Hand Dryer	20 A	1	2#6, 1#10G,1"C					2300 VA	1500 VA	--	--	--	--	R1-30
R1-31	Receptacle	20 A	1	2#12, 1#12G,1/2"C	200 VA	2300 VA					2#4, 1#8G,1.5"C	1	20 A	Hand Dryer	R1-32
R1-33	Hand Dryer	20 A	1	2#6, 1#10G,1"C			2300 VA	2300 VA			2#6, 1#10G,1"C	1	20 A	Hand Dryer	R1-34
R1-35	Receptacle	20 A	1	2#8, 1#10G,3/4"C					1000 VA	200 VA	2#12, 1#12G,1/2"C	1	20 A	Receptacle	R1-36
R1-37	Receptacle	20 A	1	2#12, 1#12G,1/2"C	400 VA	400 VA					2#12, 1#12G,1/2"C	1	20 A	Other	R1-38
R1-39	Receptacle	20 A	1	2#12, 1#12G,1/2"C			600 VA	80 VA			2#12, 1#12G,1/2"C	1	20 A	HVAC	R1-40
R1-41	HVAC	20 A	1	2#12, 1#12G,1/2"C					80 VA	1500 VA	2#8, 1#10G,3/4"C	1	20 A	Receptacle	R1-42
R1-43	Spare	20 A	1		0 VA	0 VA					--	--	--	Space	R1-44
R1-45	Spare	20 A	1				0 VA	0 VA			--	--	--	Space	R1-46
R1-47	Spare	20 A	1						0 VA	0 VA	--	--	--	Space	R1-48
R1-49	Spare	20 A	1		0 VA	0 VA					--	--	--	Space	R1-50
R1-51	Spare	20 A	1				0 VA	0 VA			--	--	--	Space	R1-52
R1-53	Spare	20 A	1						0 VA	0 VA	--	--	--	Space	R1-54
R1-55	Spare	20 A	1		0 VA	0 VA					--	--	--	Space	R1-56
R1-57	Spare	20 A	1				0 VA	0 VA			--	--	--	Space	R1-58
R1-59	Spare	20 A	1						0 VA	0 VA	--	--	--	Space	R1-60
R1-61	Spare	20 A	1		0 VA	0 VA					--	--	--	Space	R1-62
R1-63	Spare	20 A	1				0 VA	0 VA			--	--	--	Space	R1-64
				Total Load:	11240 VA		12320 VA		12560 VA						
				Total...	94 A		104 A		106 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	1200 VA	100.00%	1200 VA		
HVAC	3000 VA	100.00%	3000 VA	**Total Conn. Load:**	36120 VA
Other	400 VA	100.00%	400 VA	**Total Est. Demand:**	30740 VA
Receptacle	20760 VA	74.08%	15380 VA	**Total Conn.:**	100 A
Power	1560 VA	100.00%	1560 VA	**Total Est. Demand:**	85 A
Hand Dryer	9200 VA	100.00%	9200 VA		

Notes:

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12/10/2020

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		REVISIONS

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ELECTRICAL SCHEDULES

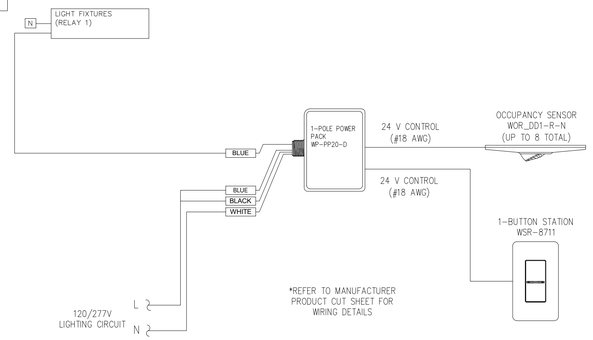
EPS01

Light Fixture Schedule

Tag	Lamp	Voltage	Mounting	Description	Manufacturer	Model
LL	LED			WALL WASHER FLOOD LIGHT	HARDCO	WAM1D-F-G2-A
A1	LED (3800LM) (32W)	120V	RECESSED	2X4 LAY-IN LED TROFFER WITH LENS AND LED DRIVER INCLUDE ALL NECESSARY MOUNTING ACCESSORIES.	DAY-BRITE	2FGG38L840-4-D-UNV-DIM
A1E	LED (3800LM) (32W)	120V	RECESSED	2X4 LAY-IN LED TROFFER WITH LENS AND LED DRIVER INCLUDE ALL NECESSARY MOUNTING ACCESSORIES WITH EMERGENCY BATTERY PACK.	DAY-BRITE	2FGG38L840-4-D-UNV-DIM-EMLED
A1NL	LED (3800LM) (32W)	120V	RECESSED	NIGHTLIGHT 24/7 2X4 LAY-IN LED TROFFER WITH LENS AND LED DRIVER INCLUDE ALL NECESSARY MOUNTING ACCESSORIES.	DAY-BRITE	2FGG38L840-4-D-UNV-DIM
A2	LED (4800LM) (42W)	120V	RECESSED	2X4 LAY-IN LED TROFFER WITH LENS AND LED DRIVER INCLUDE ALL NECESSARY MOUNTING ACCESSORIES.	DAY-BRITE	2FGG48L840-4-D-UNV-DIM
A2E	LED (4800LM) (42W)	120V	RECESSED	2X4 LAY-IN LED TROFFER WITH LENS AND LED DRIVER INCLUDE ALL NECESSARY MOUNTING ACCESSORIES WITH EMERGENCY BATTERY PACK.	DAY-BRITE	2FG48L840-4-D-UNV-DIM-EMLED
B	LED (3800LM) (33W)	120V	RECESSED	2X2 LAY-IN LED TROFFER WITH LENS AND LED DRIVER INCLUDE ALL NECESSARY MOUNTING ACCESSORIES	DAY-BRITE	2FGG38L840-2-D-UNV-DIM
BE	LED (3800LM) (33W)	120V	RECESSED	2X2 LAY-IN LED TROFFER WITH LENS AND LED DRIVER INCLUDE ALL NECESSARY MOUNTING ACCESSORIES WITH EMERGENCY BATTERY PACK.	DAY-BRITE	2FGG38L840-2-D-UNV-DIM-EMLED
BNL	LED (3800LM) (33W)	120V	RECESSED	NIGHTLIGHT 24/7 2X2 LAY-IN LED TROFFER WITH LENS AND LED DRIVER INCLUDE ALL NECESSARY MOUNTING ACCESSORIES	DAY-BRITE	2FGG38L840-2-D-UNV-DIM
D1	LED(1000LM) (15W)	120V	RECESSED	4' RECESSED LED DOWNLIGHT WITH LED DRIVER TRIM COLOR TO BE SELECTED BY OWNER/ARHCITECT.	LIGHTOLIER	4RN/Z4RDL10840WOCDZ10U
D1E	LED(1000LM) (15W)	120V	RECESSED	4' RECESSED LED DOWNLIGHT WITH LED DRIVER WITH EMERGENCY BATTERY PACK TRIM COLOR TO BE SELECTED BY OWNER/ARCHTITECT.	LIGHTOLIER	4RN/Z4RDL10840WOCDZ10U
D2	LED (2000LM) (20W)	120V	RECESSED	4' RECESSED LED DOWNLIGHT WITH LED DRIVER TRIM COLOR TO BE SELECTED BY OWNER/ARHCITECT.	LIGHTOLIER	4RN/Z4RDL20840WOCDZ10U
D2E	LED (2000LM) (20W)	120V	RECESSED	4' RECESSED LED DOWNLIGHT WITH LED DRIVER WITH EMERGENCY BATTERY PACK TRIM COLOR TO BE SELECTED BY OWNER/ARCHITECT.	LIGHTOLIER	4RN/Z4RDL20840WOCDZ10U
D3	LED(1000LM) (11W)	120V	RECESSED	4' RECESSED LED WALLWASH WITH LED DRIVER TRIM COLOR TO BE SELECTED BY OWNER/ARHCITECT.	LIGHTOLIER	4RN/P4RLW10840CLU
E	INCLUDED	120V	SURFACE	THERMOPLASTIC EXIT/EMERGENCY UNIT WITH SELF-DIAGNOSTICS	CHLORIDE	65X6N12W6
E2	LED	120V	SURFACE	ARCHITECTURAL DIE-CAST EMERGENCY LIGHTING	CHLORIDE	PDNBZ
F	LED (3000LM) (34W)	120V	SURFACE	4' LED STRIP LIGHT	LITHONIA LIGHTING	ZL1N L48 3000LM L/LENS MVOLT 35K 80 CRI WH
KK	LED (12W)	120V	SURFACE	LED WALL SCONCE	BROWNLEE	1454-15-WH-B12-WHA-35K
V	LED (2900LM)	120V	SURFACE	LED 2' VANITY LIGHT FIXTURE	VERSALED	WMB-2X24L-QT-40K-OAL
X1	INCLUDED	120V	SURFACE	THERMOPLASTIC EXIT/EMERGENCY UNIT WITH SELF-DIAGNOSTICS	CHLORIDE	CLC-N-RW
AA	LED(2000LM) (55W)	120V	RECESSED	6' RECESSED LED DOWNLIGHT WITH LED DRIVER TRIM COLOR TO BE SELECTED BY OWNER/ARHCITECT.	LIGHTOLIER	4RN/Z4RDL10840WOCDZ10U
BB	LED (2500LM) (20W)	120V	SURFACE	LED Recessed Canopy	VERSALED	VR21-E-20L-QT-40K-T5S
CC	LED	120V	SURFACE	DSXW2 LED WITH 2 LIGHT ENGINES 20 LED's 1000mA DRIVER 4000K LED TYPE 2 SHORT OPTIC	BROWNLEE	7602-C49-35K
DD	LED	120V	SURFACE	30' LED POLE, INCLUDE BASE COVER RATED FOR WET LOCATION, UL LISTED POLE SHALL BE SIZE FOR MIN 110MPH INCLUDE VIBRATION DAMPERS.	GARDCO	ECF-S-48L-1A-NW-G2-3-HIS
GG	LED	120V	LED POLE	30' LED POLE, INCLUDE BASE COVER RATED FOR WET LOCATION, UL LISTED POLE SHALL BE SIZE FOR MIN 110MPH INCLUDE VIBRATION DAMPERS.	GARDCO	ECF-S-48L-1A-NW-G2-4
HH	LED	120V	SURFACE	Outdoor Lighting, Wall mounted, Ground/Floor mounted	GARDCO	CSFM-64L-700-NW-G1-SF-RSP-UNV-DD-BZ-SMT-2-BZ-WG
JJ	LED	120V	SURFACE	Powerful exterior-rated line-voltage linear LED grazing luminaire for dynamic color-changing lighting effects	Color Kinetics	VAYA LINEAR 350-000023-51
KK	LED (12W)	120V	SURFACE	LED WALL SCONCE	BROWNLEE	1454-15-WH-B12-WHA-35K

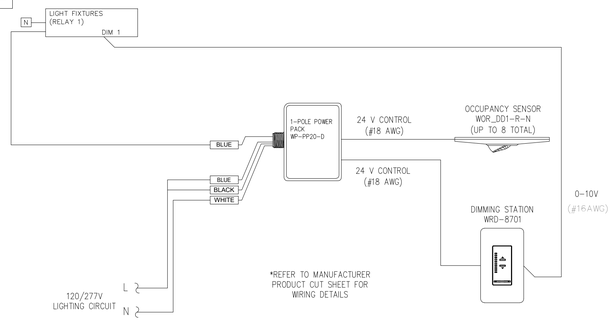
GENERAL NOTES:
1.) EQUAL MANUFACTURER SHALL BE ACCEPTABLE WITH EQUAL PERFORMANCE OF SPECIFIED EQUIPMENT AND APPROVED BY ENGINEER.
2.) SUBMIT EQUAL MANUFACTURERS TO ENGINEER 10 DAYS PRIOR TO BID DATE.
3.) SUBMIT LIGHT FIXTURES CUTSHEETS TO OWNER FOR APPROVAL PRIOR TO ORDER.
4.) CONTRACTOR SHALL VERIFY THAT ANY IRRIGATION SPRINKLER HEAD IS AWAY FROM ANY LIGHT POLE A MINIMUM OF 75' TO AVOID CONSISTENT WATER TO LIGHT POLE. COORDINATE WITH IRRIGATION CONTRACTOR PRIOR TO ANY WORK.
5.) ANCHOR BOLTS SHALL BE OF NON-CORROSIVE MATERIAL (STAINLESS STEEL).
6.) ACCEPTABLE MANUFACTURES;ACUITY MFRS.

01



LIGHTING SENSOR SCHEMATIC DIAGRAM
NO SCALE

02



LIGHTING SENSOR SCHEMATIC DIAGRAM - DIMMING
NO SCALE

LIGHTING CONTROL SENSORS LEGEND

SYMBOL	ACUITY MODEL NUMBER	CONDUIT	COMMENTS
OS	WORSDG1-P-N	3/4"C	DIALOG DT CEILING MOUNT OCC SENSOR, STD RANGE
OS3	WORXDG1-P-N	NA	DIALOG DT CEILING MOUNT OCC SENSOR, EXT RANGE
2P	WRC-4222	3/4"C	DIALOG ROOM CONTROLLER W/DIGITAL2-CH ON/OFF-0/10V, RECEPT CTRL
4P	WRC-4244	3/4"C	DIALOG ROOM CONTROLLER W/DIGITAL2-CH ON/OFF-0/10V, RECEPT CTRL, BACNET
$K	WSK-3502	3/4"C	DIALOG KEY SWITCH
$OS2	SWX-131-D-WH	3/4"C	PASSIVE INFRARED 0-10V WALL SWITCH OCCUPANCY SENSOR
$V1	WVSSDU1-P-VW	3/4"C	DIVERSA DT WALL SWITCH VAC SENSOR, STD RANGE, 1P, PS, 120/277 V
$O1	WOSSDU1-P-VW	3/4"C	DIVERSA DT WALL SWITCH OCC SENSOR, STD RANGE, 1P, PS, 120/277 V
$SW1	WSW-3511	3/4"C	DIALOG WALL SWITCH - 1 BUTTON (SYSTEM BUS)
$SW2	WSW-3514	3/4"C	DIALOG WALL SWITCH - 4-BUTTON (SYSTEM BUS)
$SW4	WSW-3528	3/4"C	DIALOG WALL SWITCH - 8-BUTTON (SYSTEM BUS)

GENERAL NOTES:
A. CONTRACTOR SHALL REFER TO MANUFACTURERS INSTRUCTIONS AND WIRING DIAGRAMS PRIOR TO BID DATE.
B. CONTRACTOR SHALL INCLUDE ALL COST IN BID FOR AN OPERABLE LIGHTING SYSTEM.
NOTES:

1. All sensor locations are approximate, refer to manufacturers installation instructions prior to installation.
2. Ultrasonic ceiling mount sensors should be located a minimum of six feet from HVAC supply/return vents.
3. Contractor is responsible for: proper sensitivity & time delay settings (for non-adaptive products) recommended placement, and field verification of circuits with in respect to power placement.
4. Contractor is responsible for field verification of required number of power packs:
   - One power pack is required for each circuit to be controlled.
   - One power pack is required for every three sensors in the zone.
   - If multiple circuits are to be controlled by a sensor, an auxiliary relay can be used in conjunction with the power pack.
   - The maximum number of sensors that can be put on a power pack is to be reduced by one for each slave pack used.
5. Sensors mounted over the door must be placed one foot inside the threshold.
6. Contractor is responsible for ensuring that the sensor bill of materials complies with the sensor design and layout specifications.
7. Contractor is responsible for installing equipment in compliance with local code.
8. Refer to manufacturers wiring diagrams
9. NOTE: Contractor shall include all cost for a manufacturer certified technician to provide a complete training session to owner representatives. Training shall include but not limited to the following: calibrate sensors settings, programming existing conditions and how to add new circuits, trouble shooting, overview of panel and any request from owner. Training may take days; contractor/manufacturer shall include all cost in bid. Contractor shall notify owner/Architect/Engineer on the day for the training. Technician shall calibrate all sensors to owners desire, include cost for technician to provide service after the job is complete.

RELAY LIGHTING CONTROL PANEL CIRCUIT SCHEDULE
120/208VAC, 1 PHASE

PANEL NAME: LCP

PANEL LOCATION:
PANEL DESCRIPTION: NETWORKING 16 Relay Cabinet:
CATALOG NUMBER: XXX
PANEL FEED: EDP
PANEL ID: Master
MOUNTING: Surface

RELAY NO.	RELAY TYPE	A	PNL CIRCUIT	LOAD VAC	LOAD W/VA	LOAD CIRCUIT DESCRIPTION
1	1	20	EDP-1	120V	1500	CORRIDOR LIGHTS
3	1	20	EDP-8	120V	1500	CONSTABLE LIGHITNG
5	1	20	EDP-12	120V	1500	SITE LIGHTING
7	1	20	EDP-16	120V	1500	FLAG LTG
9	1	20	EDP-18	120V	1500	SITE LTG
11	1	20	SPARE	120V	1500	SPARE
13	1	20	SPARE	120V	1500	SPARE
15	1	20	SPARE	120V	1500	SPACE
19	1	20	SPARE	120V	1500	SPACE

RELAY NO.	RELAY TYPE	A	PNL CIRCUIT	LOAD VAC	LOAD W/VA	LOAD CIRCUIT DESCRIPTION
2	1	20	EDP-3	120V	1500	CORRIDOR LIGHTING
4	1	20	EDP-10	120V	1500	EXTERIOR LIGHTING
6	1	20	EDP-14	120V	1500	MONUMENT SIGN
8	1	20	EDP-17	120V	1500	SITE LIGHTING
10	1	20	EDP-5	120V	1500	KENNEL
12	1	20		120V	1500	SPARE
14	1	20		120V	1500	SPARE
16	1	20		120V	1500	SPARE
18	1	20		120V	1500	SPARE

LEGEND:
1 = RELAY-1-POLE,20A, UP TO 277VAC
2 = RELAY-2-POLE, 2-POLE, 20A, UP TO 480VAC
A=AMPS

NOTES:
1. INCLUDE EXTERIOR PHOTO CELL,SOFTWARE PROGRAMMING, COMMUNICATION CARD AND GRAPHICAL CONTROLS.
2. VERIFY WITH OWNER FOR ALL PROGRAMMING SEQUENCE.
3. REFER TO SPECIFICATION 16515.
4. PROVIDE DEDICATED 20AMP 120V FROM NEAREST 120/208V PANEL.
5. INCLUDE ALL TRAINING FOR PROGRAMMING AND STARTUP IN CONTRACT. REFER TO SPECIFICATIONS.
6. INCLUDE REMOTE CONTROL OPTION. OWNER TO PROVIDE DATA INPUT.
7. INCLUDE ASTRONOMICAL TIME CLOCK.

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12/10/2020

NO.	DATE	REVISIONS DESCRIPTION

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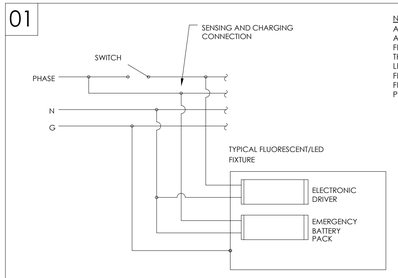
DATE: 12/11/2020 10:54:06 AM
STARTING DATE:
CK BY: Checker DWN BY: Author

ELECTRICAL SCHEDULES

EPS02

01

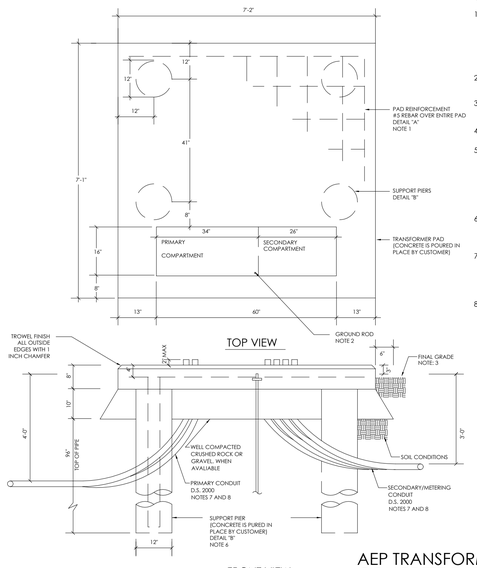


NOTE:
ALL EXIT LIGHT FIXTURE AND EMERGENCY FIXTURES SHALL BE ON THE NON-SWITCHED LEG. REFER TO LIGHT FIXTURE SCHEDULE FOR FIXTURE TYPE AND PLANS.

TYPICAL EMERGENCY LIGHT FIXTURE SCHEMATIC
NO SCALE

02

CONCRETE PAD & PIERS FOR THREE PHASE PAD-MOUNTED TRANSFORMER



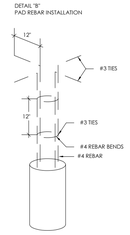
AEP TRANSFORMER CONCRETE PAD DETAIL
NO SCALE

AMERICAN ELECTRIC POWER COMPANY DISTRIBUTION STANDARDS

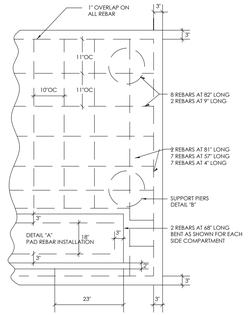
DETAIL - "B" - PIER REBAR INSTALLATION

NOTE:

1. SLAB REINFORCEMENT SHALL BE #5 REBARS, ON CENTER (OC) SPACING TO FOLLOW DIMENSIONS SHOWN ON THE DRAWING WITH 4" COVER. REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AFTER 28 DAYS.
2. FOR GROUND ROD PLACMENT, REFER TO DS 2235, 2236, OR 2237.
3. FINAL GRADE SHALL BE ESTABLISHED BEFORE INSTALLATION OF PAD.
4. CONCRETE PAD WITH PIERS IS TO BE INSTALLED OF PAD.
5. PIERS SHALL BE 12" MINIMUM IN DIAMETER, 8 FEET DEEP WITH 4 - #4 VERTICALE REBAR AND #3 TIES AT 12" ON CENTER (O/C), AND PROVIDE A MINIMUM 3" COVER. THE #4 BEND BARS SHOULD BE 12" LONG IN THE HORIZONTAL DIRECTION..
6. PIERS REBAR BENT IN THE HORIZONTAL DIRECTION SO THAT IT MAY TIE IN WITH PAD REBAR.
7. THE NUMBER AND PLACEMENT OF SECONDARY CONDUITS TO BE DETERMINED BY ENGINEERING. CONDUIT MAY EXTEND IN ANY DIRECTION AS REQUIRED BY THE CUSTOMER.
8. BURIAL DEPTH OF CONDUIT IS DEFINED AS THE DISTANCE BETWEEN FINAL GRADE AND THE TOP OF THE CONDUIT. UNLESS OTHERWISE DESIGNATED BY ENGINEERING, CONDUITS SHALL BE INSTALLED AT A BURIAL DEPTH OF NOT LESS THAN 4'-0" AND SECONDARY CONDUITS SHALL BE INSTALLED AT A BURIAL DEPTH OF NOT LESS THAN 3'-0". THESE INITIAL DEPTHS ARE TO ALLOW FOR CHANGES TO THE SURFACE CONDITIONS, LOCAL AGREEMENTS AND CODES MAY REQUIRE ADDITIONAL DEPTH. IF OTHER ARE KNOWN EXTENSIVE CHANGES TO THE FINAL GRADE SUCH THAT THEIR DEPTHS ARE NOT MAINTAINED, CORRECTIVE ACTION SHALL BE TAKEN.



DETAIL - "A" - PAD INSTALLATION



CONCRETE PAD AND PIERS FOR THREE PHASE PAD-MOUNTED TRANSFORMERS
HIGH VOLUME CLAY OR SAND TYPE SOIL APPLICATIONS
75KVA - 2500KVA
25KV AND BELOW

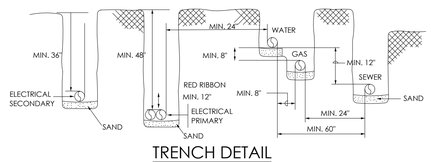
03

CLEAR TRENCH OF ALL ROCKS AND DEBRIS BEFORE ADDING SAND CUSHION.

COMPACT TRENCH FILL TO 95% PROCTOR DENSITY.

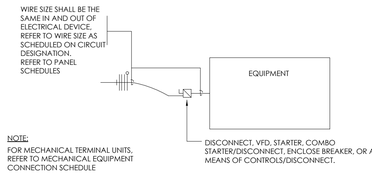
MAINTAIN A MINIMUM OF 60 INCHES UNDISTURBED EARTH BETWEEN PARALLEL WATER AND SEWER LINES OR SUPPORT WATER LINE ON SEPARATE SHELF A MINIMUM OF 12" ABOVE SEWER LINE.

MAINTAIN A MINIMUM OF 24" HORIZONTALLY BETWEEN ELECTRICAL PRIMARY AND SEWER. MAINTAIN A MINIM OF 12" VERTICALLY OR 24" HORIZONTALLY BETWEEN ELECTRICAL PRIMARY AND WATER LINES, GAS LINES, TELEPHONE RACEWAYS AND CABLE RACEWAYS.



TRENCH DETAIL
NO SCALE

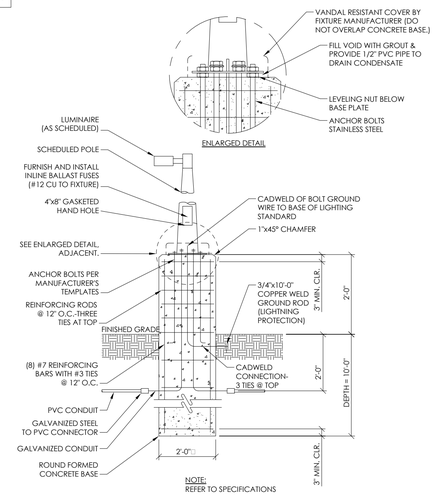
04



NOTE:
FOR MECHANICAL TERMINAL UNITS, REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE

EQUIPMENT CIRCUIT DETAIL
NO SCALE

05



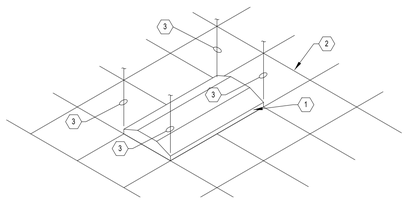
NOTE:
REFER TO SPECIFICATIONS FOR FIXTURE SCHEDULE.

PARKING LOT LIGHT POLE BASE
NO SCALE

06

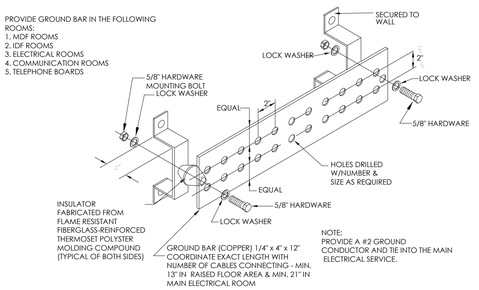
KEYED NOTES:

1. 2'x 4' LAY-IN LED/FLUORESCENT FIXTURE
2. SUSPENDED CEILING
3. TIE WIRE, CONNECT TO ALL FOUR CORNERS OF FIXTURE TO TOP OF STRUCTURE, INDEPENDENT OF CEILING SUPPORTS.



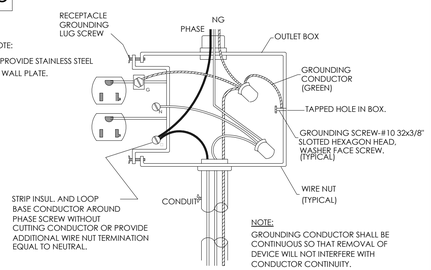
TYPICAL LAY-IN FIXTURE SUPPORT
NO SCALE

07



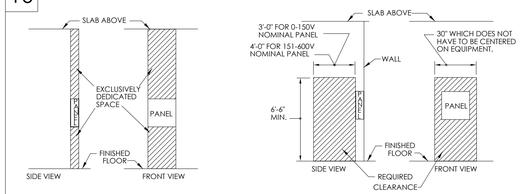
WALL MOUNTED SINGLE-POINT GROUND BAR DETAIL
NO SCALE

08



TYPICAL RECEPTACLE GROUNDING DETAIL
NO SCALE

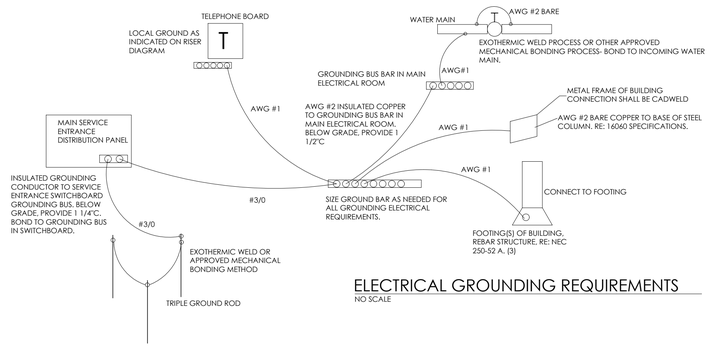
10



NOTE:
REFER TO THE LATEST NATIONAL ELECTRICAL CODE AND LOCAL CODES.

TYPICAL PANEL BOARD REQUIRED CLEARANCE
NO SCALE

11



ELECTRICAL GROUNDING REQUIREMENTS
NO SCALE

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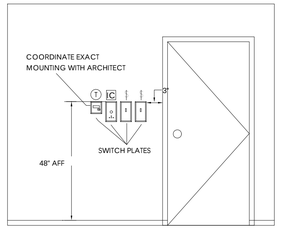
ELECTRICAL DETAILS

ED01

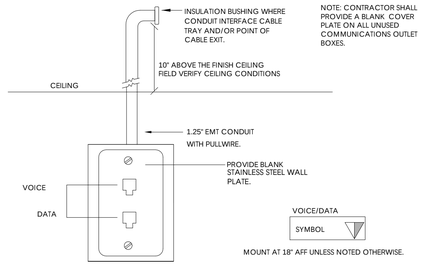
01

NOTE:
VERIFY WITH DIVISION-15 FOR THERMOSTAT LOCATION AND HEIGHT.



SWITCH PLATE LOCATION DETAIL
NO SCALE

02

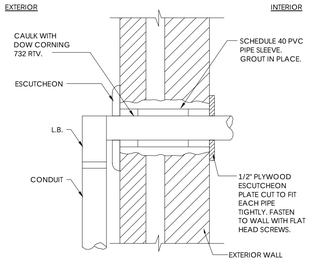


NOTE: CONTRACTOR SHALL PROVIDE A BLANK COVER PLATE ON ALL UNUSED COMMUNICATIONS OUTLET BOXES.

MOUNT AT 18" AFF UNLESS NOTED OTHERWISE.

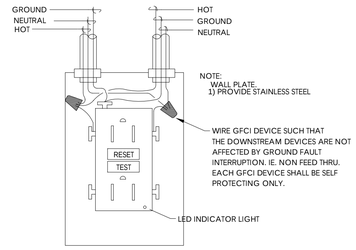
VOICE/ DATA DETAIL
NO SCALE

03



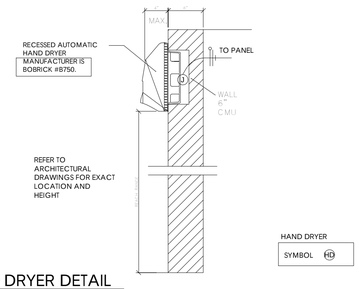
CONDUIT ENTRY THROUGH EXTERIOR
NO SCALE

04



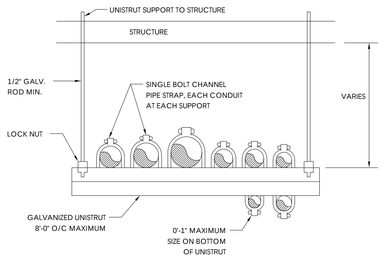
GFI RECEPTACLE- WIRING DIAGRAM
NO SCALE

05



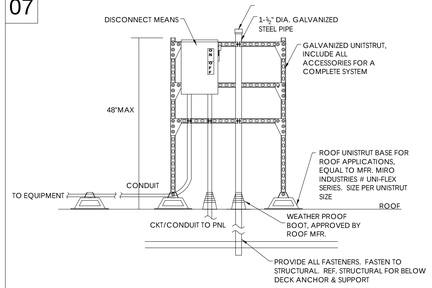
HAND DRYER DETAIL
NO SCALE

06



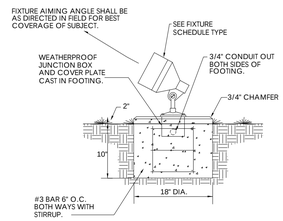
SUPPORT DETAIL FOR MULTIPLE CONDUIT HORIZONTAL RUNS
NO SCALE

07



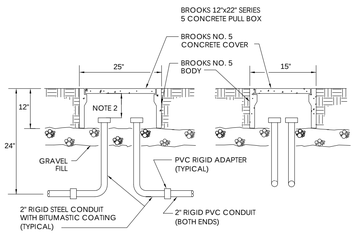
ROOF TOP STRUCTURAL DISCONNECT SUPPORT
NO SCALE

08



LIGHT FIXTURE TYPE-JJ MOUNTING DETAIL
NO SCALE

09



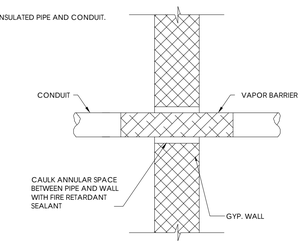
NOTES:
1. SEE PLAN FOR CONDUIT ORIENTATION
2. VARIES - MIN. 6", MAX-9"

TYPICAL PULLBOX DETAIL
NO SCALE

10

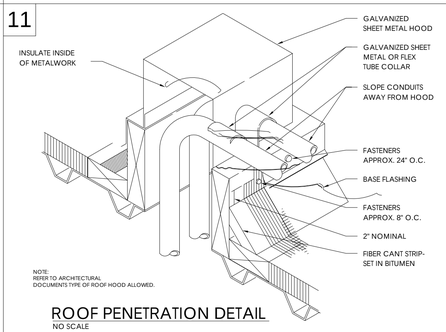
NOTE: WHERE PIPING IS EXPOSED AT FINISHED WALLS, PROVIDE FLUSH MOUNTED SLEEVE AND ESCUTCHEON PLATES. (CONTRACTOR MAY USE FIELD FABRICATED S.S. PLATE).

NOTE: SIMILAR FOR UNINSULATED PIPE AND CONDUIT.



CONDUIT THROUGH FIRE RATED WALL
NO SCALE

11

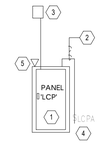


ROOF PENETRATION DETAIL
NO SCALE

12

KEYED NOTES:

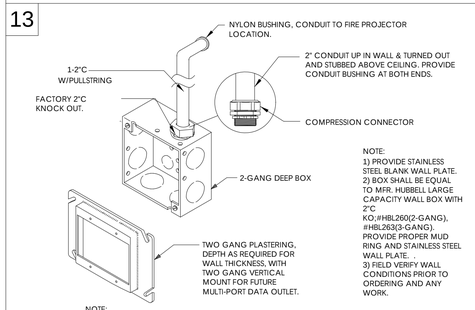
1. LIGHTING CONTROL RELAY PANELS. REFER TO SPECIFICATIONS - 26 09 26. EACH MATER RELAY PANEL SHALL INCLUDE DISPLAY MONITOR.
2. PROVIDE COMMUNICATION CABLE AS RECOMMENDED BY MANUFACTURER IN A 3/4"C. REFER TO PLAN FOR PANEL LOCATIONS.
3. PROVIDE EXTERIOR PHOTO CELL AS RECOMMENDED BY MANUFACTURER.
4. PROVIDE OVERRIDE SWITCH STATION. PROVIDE WIRING AS RECOMMENDED BY MANUFACTURER.
5. PROVIDE DATA CONNECTION TO MASTER PANEL.



NOTE:
1.) ALL EXTERIOR CIRCUITS SHALL BE PROGRAMMED AT OWNERS DIRECTIONS.
2.) MASTER RELAY PANEL "LCP1" SHALL INCLUDE CLOCK, PHOTOCELL SOFTWARE PROGRAMMING, COMMUNICATION CARD AND GRAPHICAL CONTROLS.
3.) ALL SLAVE PANELS SHALL INCLUDE GRAPHICAL CONTROLS.

RELAY CONTROL PANEL DETAIL
NO SCALE

13



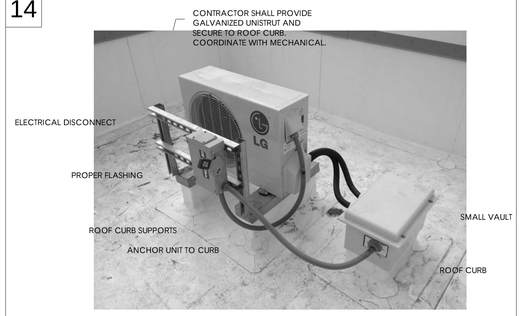
NOTE:
1) PROVIDE STAINLESS STEEL BLANK WALL PLATE.
2) BOX SHALL BE EQUAL TO MFR. HUBBELL LARGE CAPACITY WALL BOX WITH 2"C KO.#HBL260(2-GANG), #HBL263(3-GANG). PROVIDE PROPER MUD RING AND STAINLESS STEEL WALL PLATE.
3) FIELD VERIFY WALL CONDITIONS PRIOR TO ORDERING AND ANY WORK.

NOTE:
1. PROVIDE TWO GANG STAINLESS STEEL BLANK WALL PLATE.

SYMBOL

AUDIO/VIDEO DROP DETAIL
NO SCALE

14



MINI SPLIT CONDENSING UNIT
NO SCALE

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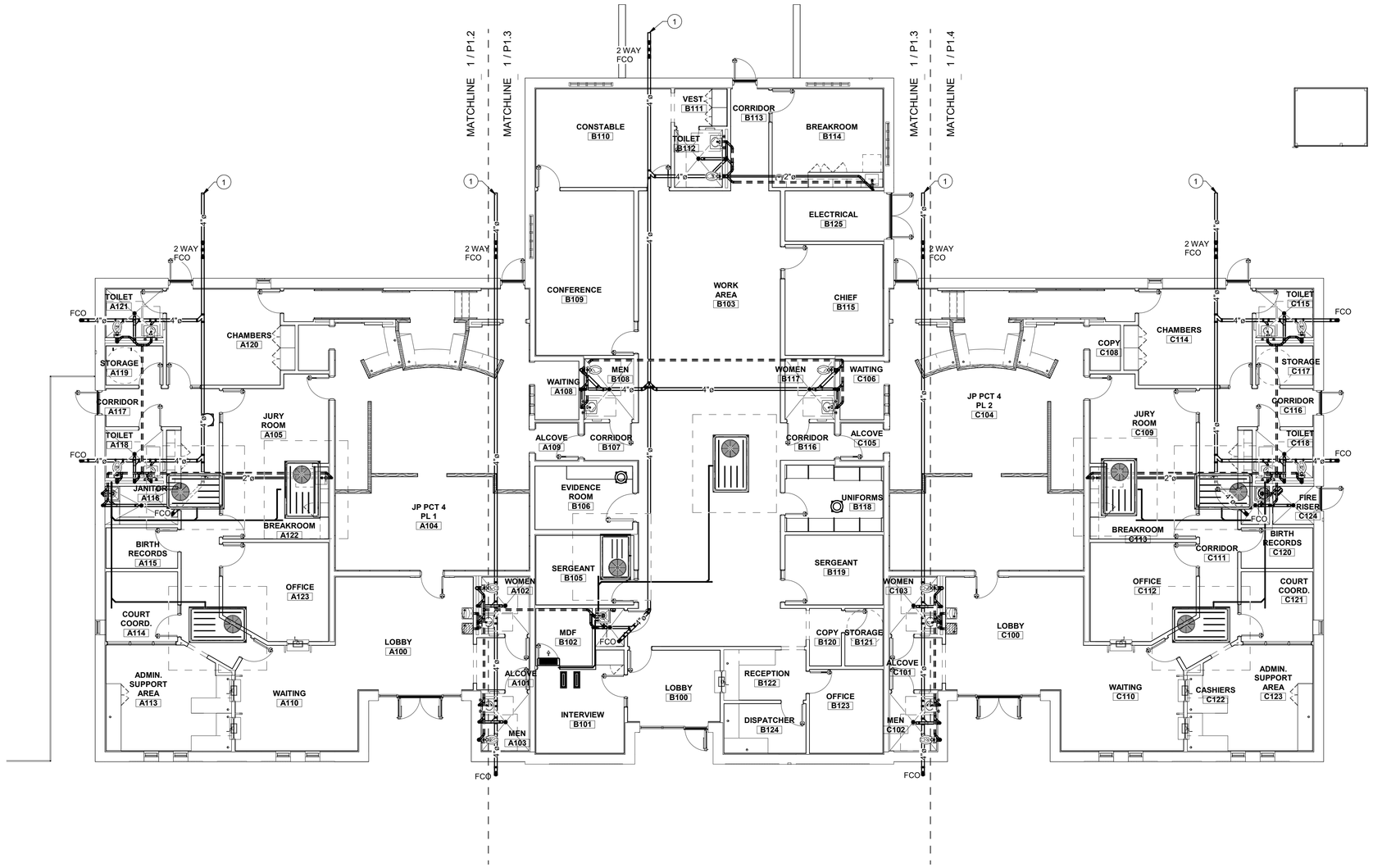

PLUMBING SEWER OVERALL- JUSTICE CENTER

1/8" = 1'-0"

GENERAL NOTES: PLUMBING

A. WHEN NOT SHOWN ON PLANS, INDIVIDUAL FIXTURE CONNECTIONS SHALL BE SIZE AS SHOWN ON PLUMBING FIXTURE SCHEDULE.
B. ISOMETRIC DIAGRAMS ARE FOR SIZING PURPOSES ONLY AND SHALL NOT BE USED FOR MATERIAL TAKE-OFFS, OR BE CONSTRUED TO INDICATE ACTUAL SITE INSTALLATION. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES.
C. DRAWING IS SCHEMATIC IN NATURE AND SHOW THE GENERAL LAYOUT OF THE FOLLOWING SYSTEM. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING. DEVICES AND EQUIPMENT WITH THE BUILDING ELEMENTS AND THE WORK WITH THE OTHER TRADES.
D. THIS INCLUDE BUT NOT LIMITED TO FURNISHING AND INSTALL ALL TRAPS, DRAINS AND SUPPLIES WITH STOPS.

PLUMBING KEYED NOTES	
1	REFER TO CIVIL SITE PLAN FOR CONTINUATION OF PLUMBING FIVE FEET AWAY FROM BUILDING. PLUMBING CONTRACTOR SHALL VERIFY LOCATIONS, INVERT SLOPE, ELEVATION, AND DIRECTION OF FLOW WITH CIVIL ENGINEERING DRAWINGS.

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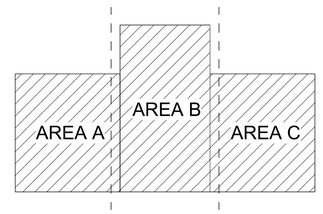

KEY PLAN

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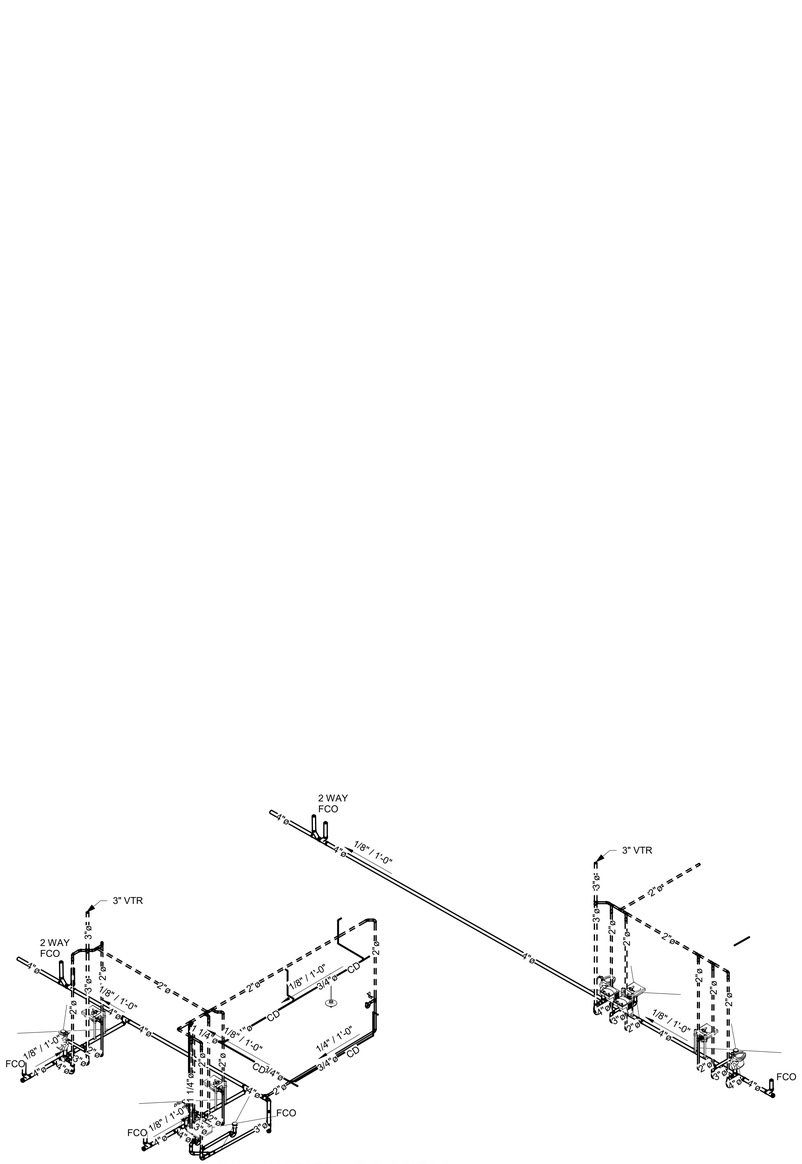
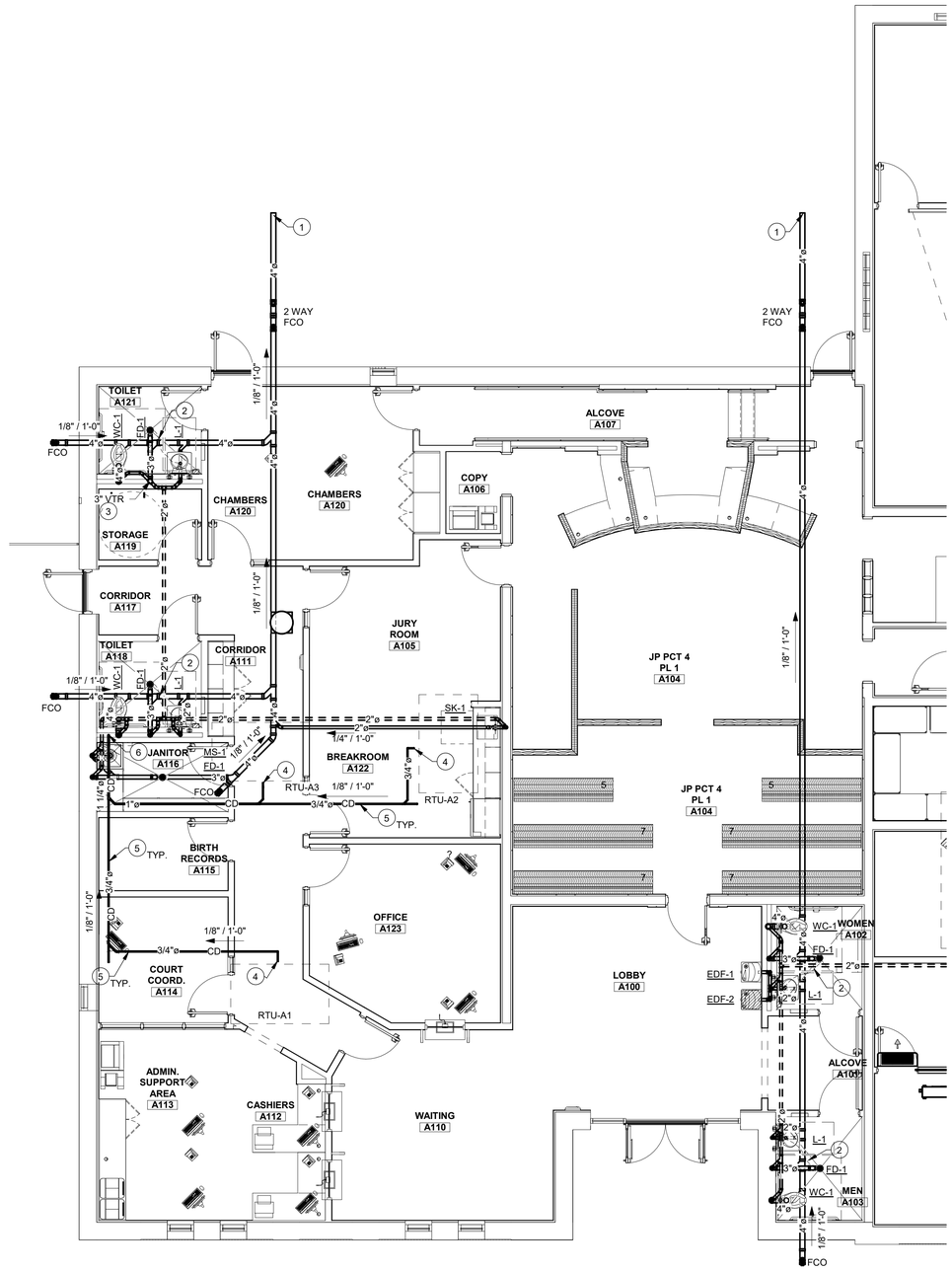
PLUMBING SEWER & VENT FLOOR PLAN

P1.1



2 PLUMBING SEWER & VENT JP PCT 4 PL1 RISER



PLUMBING SEWER - JP PCT 4 PL 1

3/16" = 1'-0"

GENERAL NOTES: PLUMBING

A. WHEN NOT SHOWN ON PLANS, INDIVIDUAL FIXTURE CONNECTIONS SHALL BE SIZE AS SHOWN ON PLUMBING FIXTURE SCHEDULE.
B. ISOMETRIC DIAGRAMS ARE FOR SIZING PURPOSES ONLY AND SHALL NOT BE USED FOR MATERIAL TAKE-OFFS, OR BE CONSTRUED TO INDICATE ACTUAL SITE INSTALLATION. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES.
C. DRAWING IS SCHEMATIC IN NATURE AND SHOW THE GENERAL LAYOUT OF THE FOLLOWING SYSTEM. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING. DEVICES AND EQUIPMENT WITH THE BUILDING ELEMENTS AND THE WORK WITH THE OTHER TRADES.
D. THIS INCLUDE BUT NOT LIMITED TO FURNISHING AND INSTALL ALL TRAPS, DRAINS AND SUPPLIES WITH STOPS.

PLUMBING KEYED NOTES	
1	REFER TO SHEET P1.1 FOR SS PIPE CONTINUATION.
2	1/2" COPPER FROM TRAP PRIMER PROVIDE LAVATORY WITH WATER SAVER TRAP PRIMER EQUAL TO JAY R. SMITH MODEL NO. 2698-ADA. SEE DETAIL 08/P5.0. COVER WITH SLEEVE "POLY SLEEVE" OR EQUAL. TYPICAL ALL TRAP-PRIMERS.
3	KEEP ALL VENTS THRU ROOF (VTR) AT LEAST 10 FEET AWAY FROM ANY FRESH AIR INTAKE COORDINATE LOCATION OF ALL VTRs WITH HVAC CONTRACTOR.
4	COPPER CONDENSATE LINE FROM RTU COORDINATE ROUTING WITH HVAC CONTRACTOR. REFER TO DETAIL 16-P4.1.
5	COPPER CONDENSATE DRAIN LINE,PROVIDE 1/2" INSULATION. PROVIDE 1/8" SLOPE. COORDINATE ROUTING WITH HVAC CONTRACTOR.
6	COPPER CONDENSATE DRAIN LINE DOWN THRU WALL. DISCHARGE TO MOP SINK.

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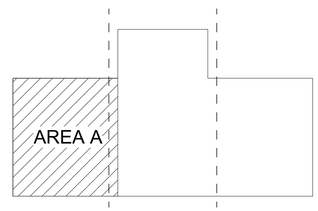

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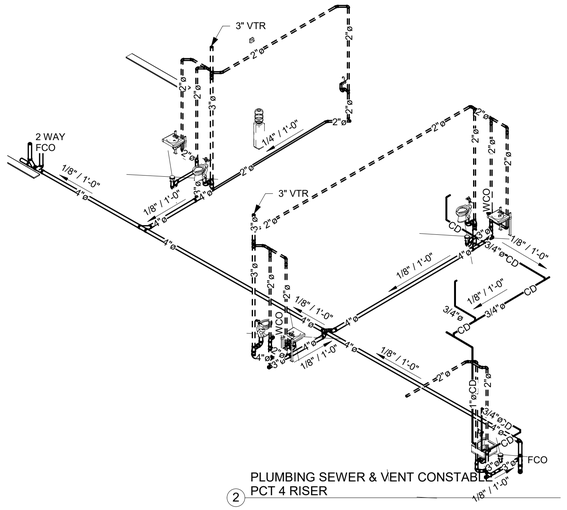
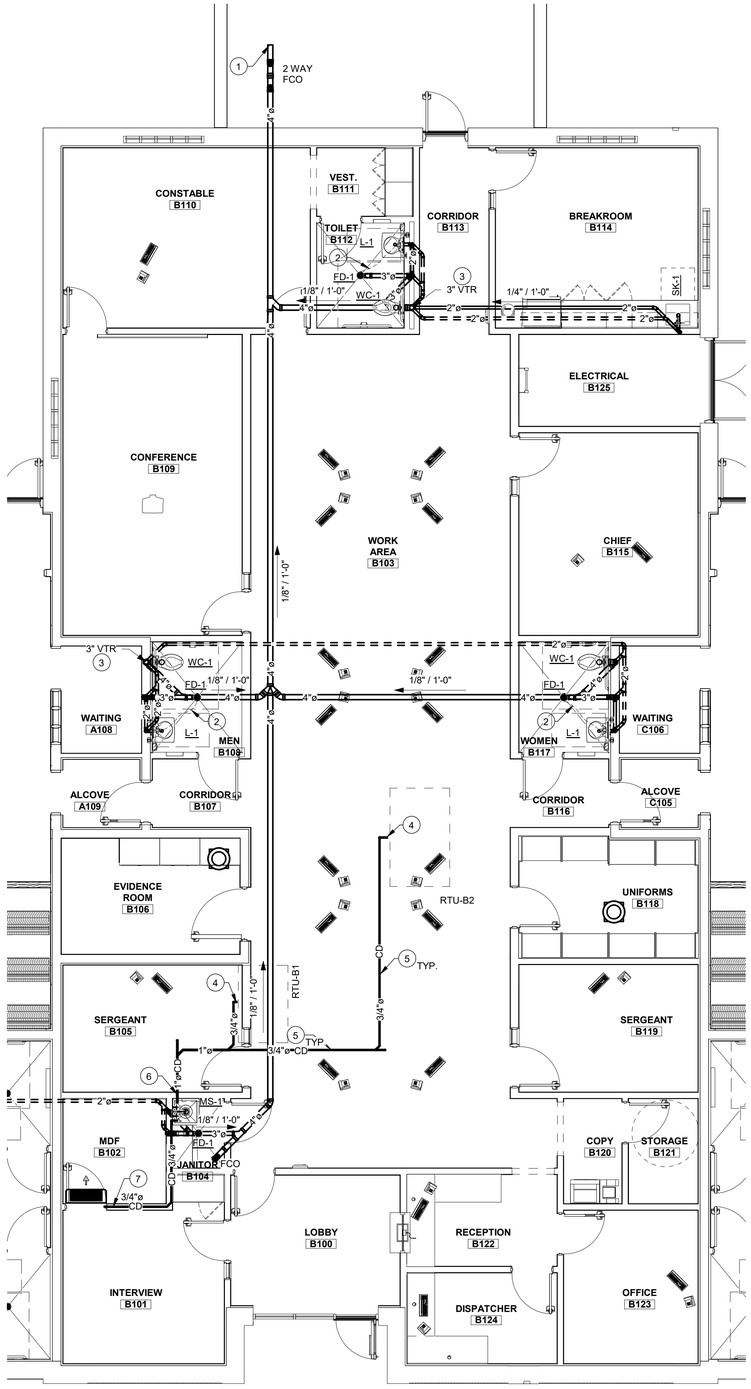
PLUMBING SEWER & VENT JP PCT 4 PL 1

P1.2



2 PLUMBING SEWER & VENT CONSTABLE PCT 4 RISER



PLUMBING SEWER - CONSTABLE PCT 4

3/16" = 1'-0"

GENERAL NOTES: PLUMBING

A. WHEN NOT SHOWN ON PLANS, INDIVIDUAL FIXTURE CONNECTIONS SHALL BE SIZE AS SHOWN ON PLUMBING FIXTURE SCHEDULE.
B. ISOMETRIC DIAGRAMS ARE FOR SIZING PURPOSES ONLY AND SHALL NOT BE USED FOR MATERIAL TAKE-OFFS, OR BE CONSTRUED TO INDICATE ACTUAL SITE INSTALLATION. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES.
C. DRAWING IS SCHEMATIC IN NATURE AND SHOW THE GENERAL LAYOUT OF THE FOLLOWING SYSTEM. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING. DEVICES AND EQUIPMENT WITH THE BUILDING ELEMENTS AND THE WORK WITH THE OTHER TRADES.
D. THIS INCLUDE BUT NOT LIMITED TO FURNISHING AND INSTALL ALL TRAPS, DRAINS AND SUPPLIES WITH STOPS.

PLUMBING KEYED NOTES	
1	REFER TO SHEET P1.1 FOR SS PIPE CONTINUATION.
2	1/2" COPPER FROM TRAP PRIMER PROVIDE LAVATORY WITH WATER SAVER TRAP PRIMER EQUAL TO JAY R. SMITH MODEL NO. 2698-ADA. SEE DETAIL 08/P5.0. COVER WITH SLEEVE "POLY SLEEVE" OR EQUAL. TYPICAL ALL TRAP-PRIMERS.
3	KEEP ALL VENTS THRU ROOF (VTR) AT LEAST 10 FEET AWAY FROM ANY FRESH AIR INTAKE COORDINATE LOCATION OF ALL VTRs WITH HVAC CONTRACTOR.
4	COPPER CONDENSATE LINE FROM RTU COORDINATE ROUTING WITH HVAC CONTRACTOR. REFER TO DETAIL 16-P4.1.
5	COPPER CONDENSATE DRAIN LINE,PROVIDE 1/2" INSULATION, PROVIDE 1/8" SLOPE. COORDINATE ROUTING WITH HVAC CONTRACTOR.
6	COPPER CONDENSATE DRAIN LINE DOWN THRU WALL. DISCHARGE TO MOP SINK.
7	RUN CONDENSATE 3/4" COPPER LINE FROM FAN COIL THRU WALL AND DISCHARGE IN MOP SINK.

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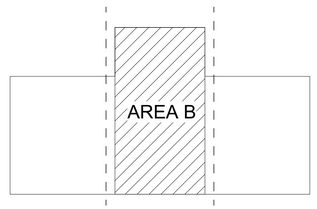

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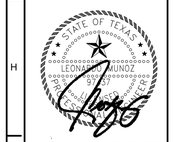

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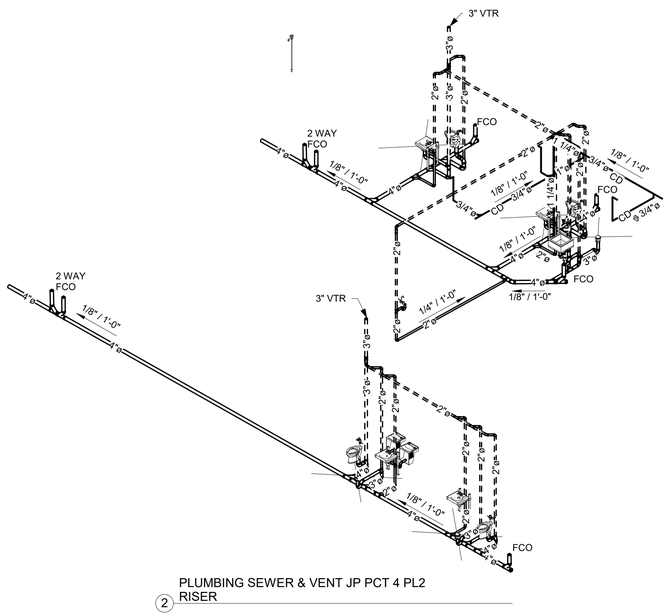
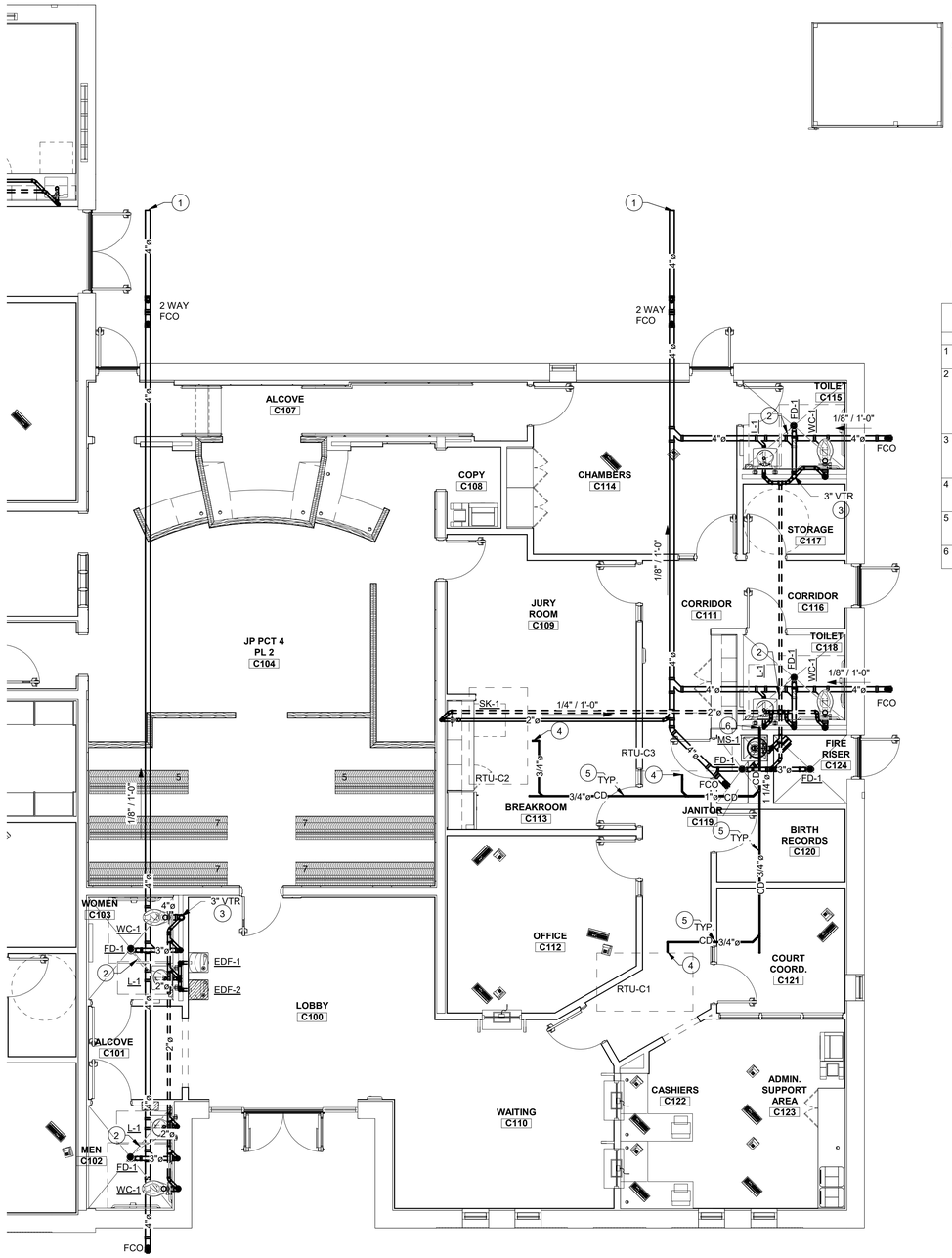
PLUMBING SEWER & VENT CONSTABLE PCT 4

P1.3



2 PLUMBING SEWER & VENT JP PCT 4 PL2 RISER



PLUMBING SEWER - JP PCT 4 PL 2

3/16" = 1'-0"

GENERAL NOTES: PLUMBING

A. WHEN NOT SHOWN ON PLANS, INDIVIDUAL FIXTURE CONNECTIONS SHALL BE SIZE AS SHOWN ON PLUMBING FIXTURE SCHEDULE.
B. ISOMETRIC DIAGRAMS ARE FOR SIZING PURPOSES ONLY AND SHALL NOT BE USED FOR MATERIAL TAKE-OFFS, OR BE CONSTRUED TO INDICATE ACTUAL SITE INSTALLATION. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES.
C. DRAWING IS SCHEMATIC IN NATURE AND SHOW THE GENERAL LAYOUT OF THE FOLLOWING SYSTEM. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING. DEVICES AND EQUIPMENT WITH THE BUILDING ELEMENTS AND THE WORK WITH THE OTHER TRADES.
D. THIS INCLUDE BUT NOT LIMITED TO FURNISHING AND INSTALL ALL TRAPS, DRAINS AND SUPPLIES WITH STOPS.

PLUMBING KEYED NOTES

1	REFER TO SHEET P1.1 FOR SS PIPE CONTINUATION.
2	1/2" COPPER FROM TRAP PRIMER PROVIDE LAVATORY WITH WATER SAVER TRAP PRIMER EQUAL TO JAY R. SMITH MODEL NO. 2698-ADA. SEE DETAIL 08/P5.0. COVER WITH SLEEVE "POLY SLEEVE" OR EQUAL. TYPICAL ALL TRAP-PRIMERS.
3	KEEP ALL VENTS THRU ROOF (VTR) AT LEAST 10 FEET AWAY FROM ANY FRESH AIR INTAKE COORDINATE LOCATION OF ALL VTRs WITH HVAC CONTRACTOR.
4	COPPER CONDENSATE LINE FROM RTU COORDINATE ROUTING WITH HVAC CONTRACTOR. REFER TO DETAIL 16-P4.1.
5	COPPER CONDENSATE DRAIN LINE,PROVIDE 1/2" INSULATION, PROVIDE 1/8" SLOPE. COORDINATE ROUTING WITH HVAC CONTRACTOR.
6	COPPER CONDENSATE DRAIN LINE DOWN THRU WALL. DISCHARGE TO MOP SINK.

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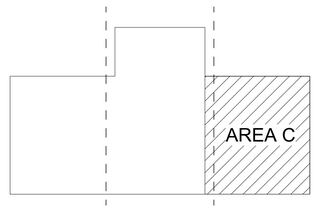

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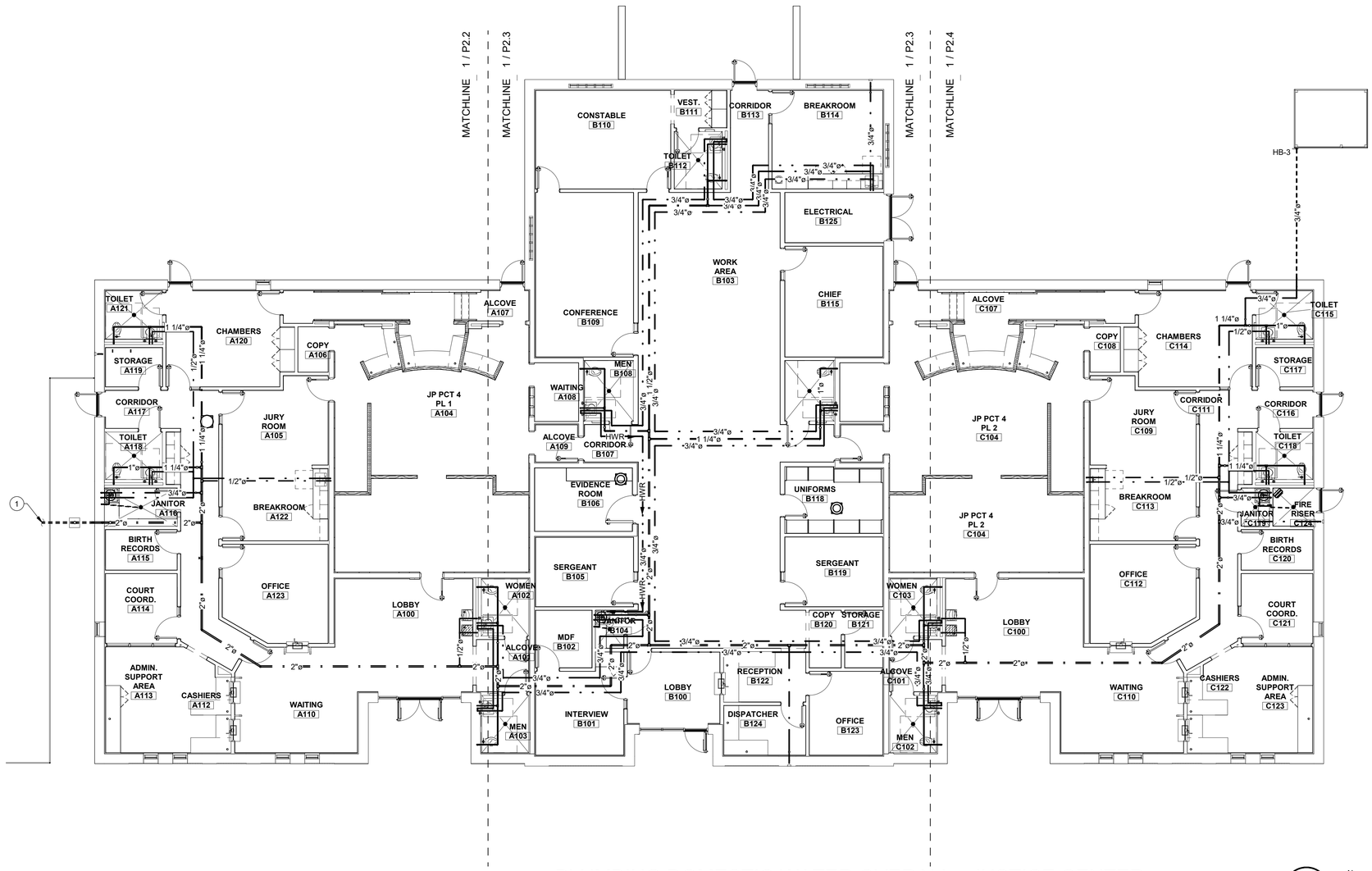
PLUMBING SEWER & VENT JP PCT 4 PL 2

P1.4



PLUMBING DOMESTIC WATER OVERALL - JUSTICE CENTER

1/8" = 1'-0"

GENERAL NOTES: PLUMBING

A. WHEN NOT SHOWN ON PLANS, INDIVIDUAL FIXTURE CONNECTIONS SHALL BE SIZE AS SHOWN ON PLUMBING FIXTURE SCHEDULE.
B. ISOMETRIC DIAGRAMS ARE FOR SIZING PURPOSES ONLY AND SHALL NOT BE USED FOR MATERIAL TAKE-OFFS, OR BE CONSTRUED TO INDICATE ACTUAL SITE INSTALLATION. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES.
C. DRAWING IS SCHEMATIC IN NATURE AND SHOW THE GENERAL LAYOUT OF THE FOLLOWING SYSTEM. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING. DEVICES AND EQUIPMENT WITH THE BUILDING ELEMENTS AND THE WORK WITH THE OTHER TRADES.
D. THIS INCLUDE BUT NOT LIMITED TO FURNISHING AND INSTALL ALL TRAPS, DRAINS AND SUPPLIES WITH STOPS.

PLUMBING KEYED NOTES	
1	REFER TO CIVIL SITE PLAN FOR CONTINUATION OF OF PLUMBING FIVE FEET AWAY FROM BUILDING. PLUMBING CONTRACTOR TO BE RESPONSIBLE FOR COORDINATION. VERIFICATION AND CONNECTION OF ALL UTILITIES TO SITE UTILITY STUB-OUTS. PROVIDE 1-1/2" WATER METER AND BACKFLOW PREVENTER AS REQUIRED.

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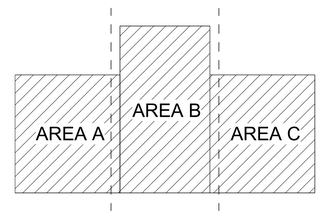
PLUMBING DOMESTIC WATER FLOOR PLAN



KEY PLAN

P2.1

GENERAL NOTES: PLUMBING

A. WHEN NOT SHOWN ON PLANS, INDIVIDUAL FIXTURE CONNECTIONS SHALL BE SIZE AS SHOWN ON PLUMBING FIXTURE SCHEDULE.
B. ISOMETRIC DIAGRAMS ARE FOR SIZING PURPOSES ONLY AND SHALL NOT BE USED FOR MATERIAL TAKE-OFFS, OR BE CONSTRUED TO INDICATE ACTUAL SITE INSTALLATION. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES.
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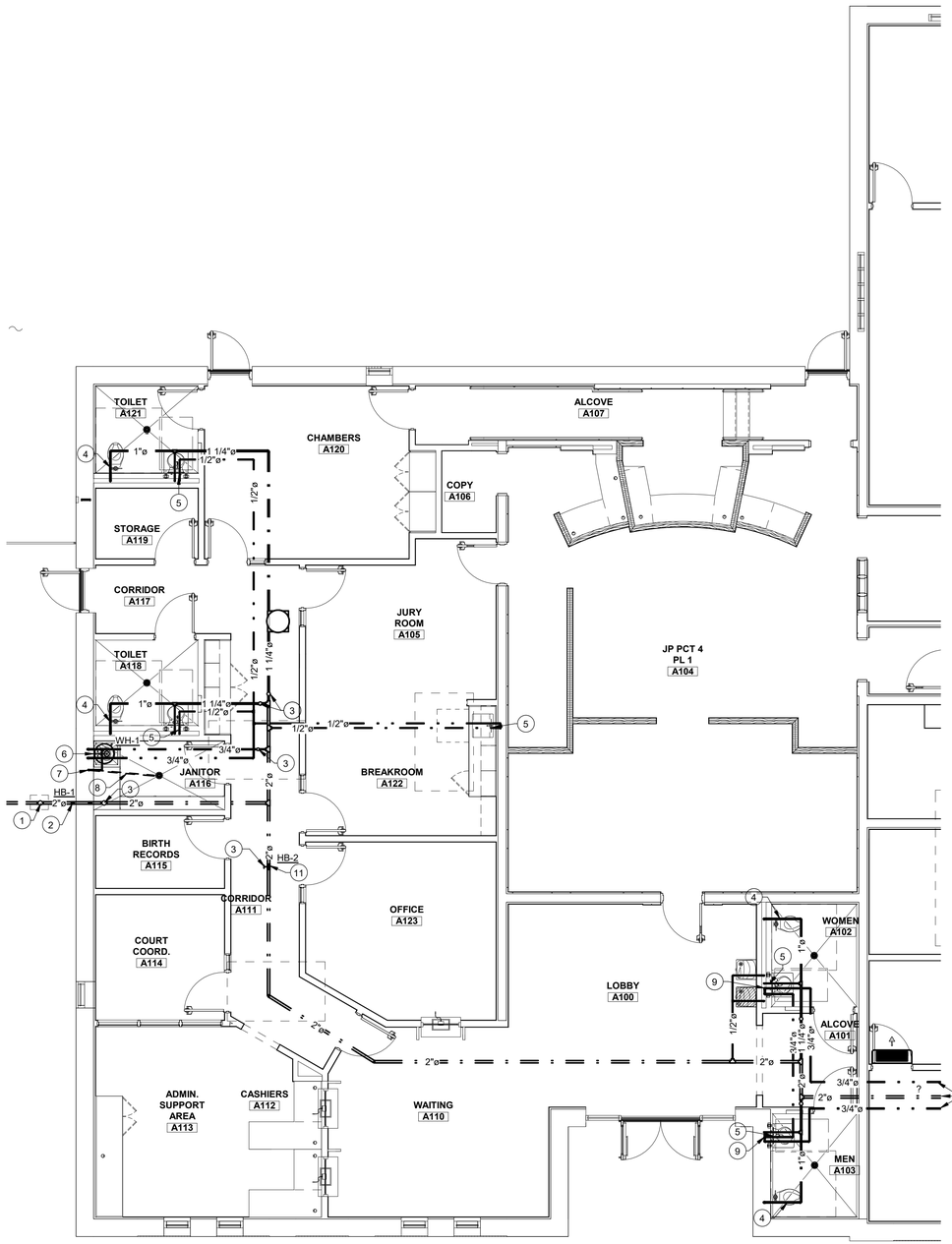
D. THIS INCLUDE BUT NOT LIMITED TO FURNISHING AND INSTALL ALL TRAPS, DRAINS AND SUPPLIES WITH STOPS.

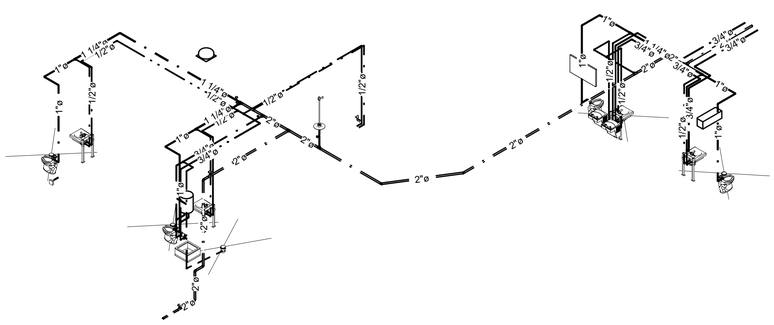
PLUMBING KEYED NOTES

1	CUT-OFF VALVE IN CAST IRON BOX. SET BOX FLUSH WITH FINISHED GRADE.
2	WATER SERVICE ENTRANCE. REFER TO DETAIL 01/P4.1.
3	BRONZE CUT-OFF VALVE ABOVE CEILING. PROVIDE ACCESS PANEL WHERE LOCATED IN AN INACCESSIBLE CEILING. PANEL SHALL BE 12"X12" PAINTED TO MATCH CEILING.
4	WATER HAMMER ARRESTOR ABOVE CEILING. PROVIDE ACCESS PANEL WHERE LOCATED IN AN INACCESSIBLE CEILING. PANEL SHALL BE 12"x12" PAINTED TO MATCH CEILING.
5	PROVIDE SINK/LAV WITH SINGLE OUTLET THERMOSTATIC MIXING VALVE (TMV), WATTS LFMMV-US-M1. SET TEMPERATURE AS PER LOCAL JURISDICTION.
6	INSTALL WATER HEATER ABOVE MOP SINK. REFER TO DETAIL 08/P4.1.
7	PRESSURE DROP ACTIVATED TRAP PRIMER. PROVIDE ACCESS PANEL IF INACCESSIBLE. SEE DETAIL 04/P4.1.
8	1/2" COPPER FROM TRAP PRIMER COVER WITH POLYETHYLENE SLEEVE "POLY SLEEVE" OR EQUAL. TYPICAL ALL TRAP-PRIMERS.
9	ROUTE RECIRCULATED HOT WATER LINE DOWN WALL. ROUTE MAXIMUM 2' LONG 1/2" BRANCH TO HOT WATER CONNECTION OF LAVATORY. CONTINUE 3/4" RECIRCULATED HOT WATER LINE BACK UP WALL.
10	REFER TO SHEET 1/P2.3 FOR CW & HW PIPE CONTINUATION.
11	1" CW UP TO SERVE ROOF MOUNT HOSE BIB.

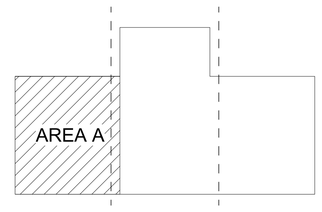


PLUMBING DOMESTIC WATER- JP PCT 4 PL 1

3/16" = 1'-0"



2 PLUMBING DOMESTIC WATER JP PCT 4 PL1 RISER



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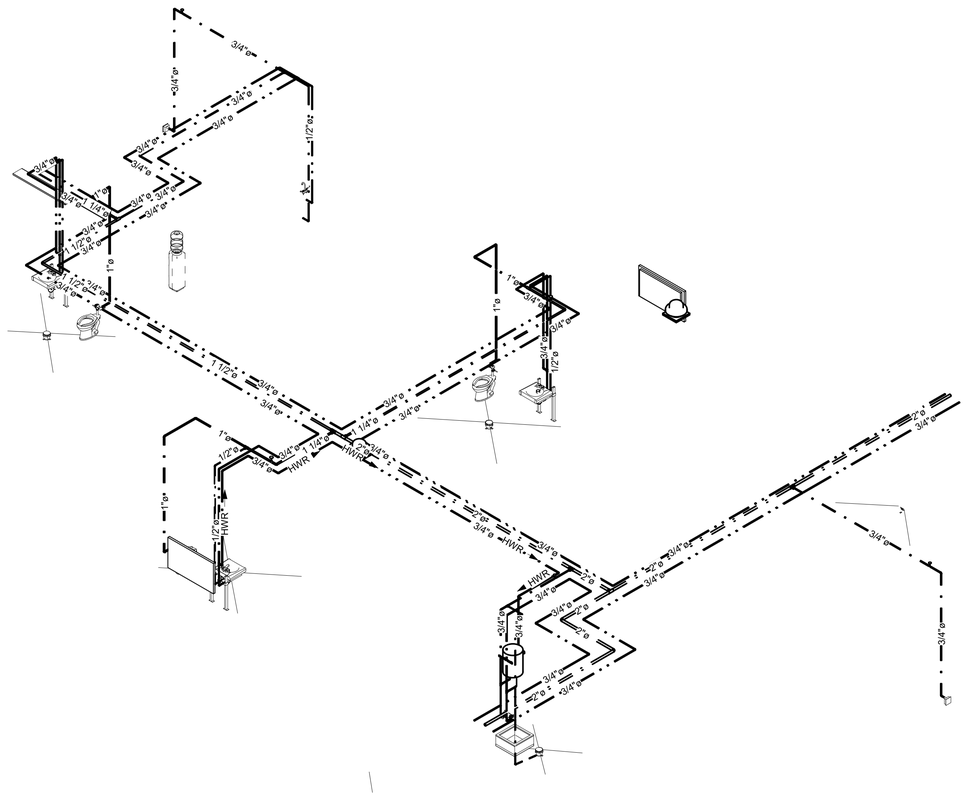
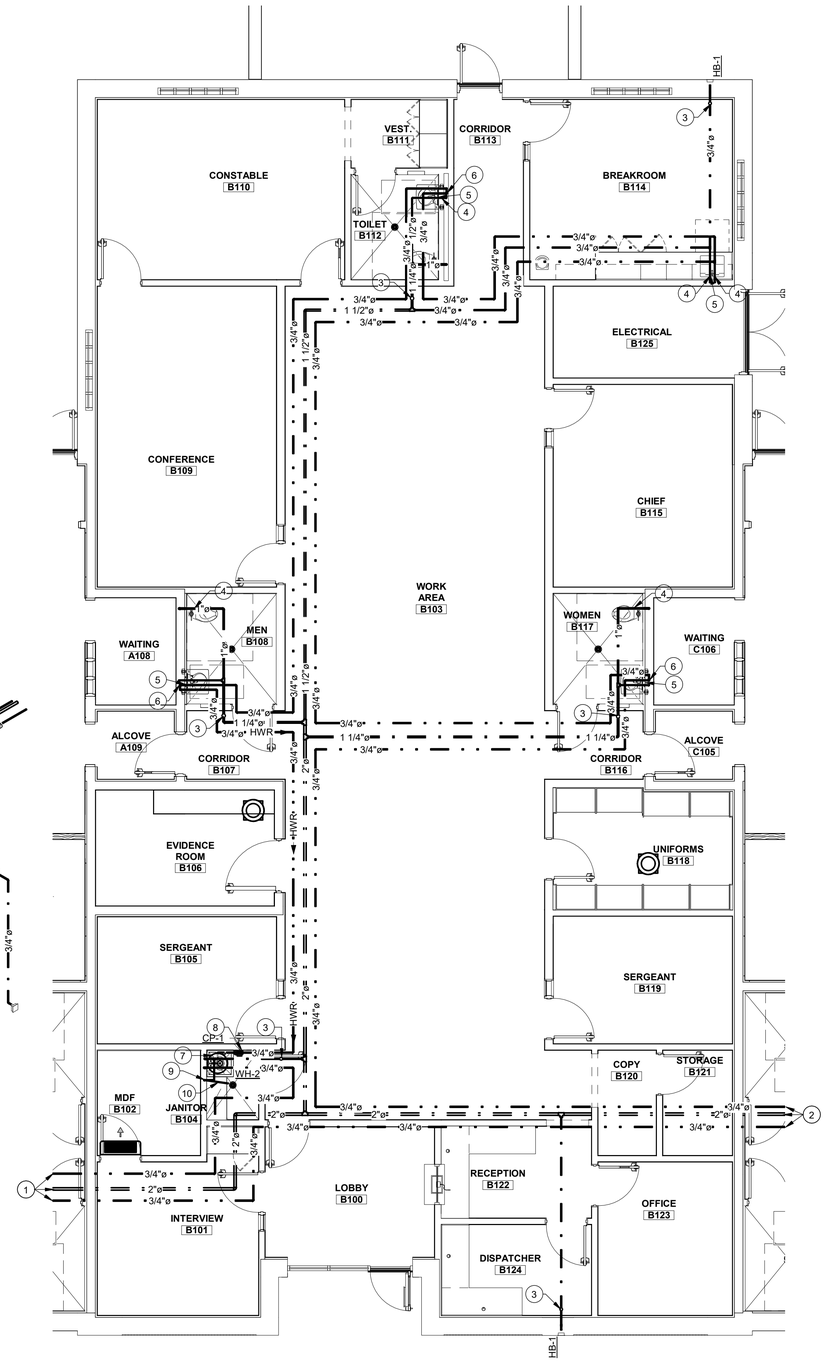
PLUMBING DOMESTIC WATER JP PCT 4 PL 1

P2.2



PLUMBING DOMESTIC WATER
2 CONSTABLE PCT 4 RISER



PLUMBING DOMESTIC WATER- CONSTABLE PCT 4

3/16" = 1'-0"

GENERAL NOTES: PLUMBING

A. WHEN NOT SHOWN ON PLANS, INDIVIDUAL FIXTURE CONNECTIONS SHALL BE SIZE AS SHOWN ON PLUMBING FIXTURE SCHEDULE.
B. ISOMETRIC DIAGRAMS ARE FOR SIZING PURPOSES ONLY AND SHALL NOT BE USED FOR MATERIAL TAKE-OFFS, OR BE CONSTRUED TO INDICATE ACTUAL SITE INSTALLATION. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES.
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D. THIS INCLUDE BUT NOT LIMITED TO FURNISHING AND INSTALL ALL TRAPS, DRAINS AND SUPPLIES WITH STOPS.

PLUMBING KEYED NOTES	
1	REFER TO SHEET 1/P2.2 FOR CW & HW PIPE CONTINUATION.
2	REFER TO SHEET 1/P2.4 FOR CW & HW PIPE CONTINUATION.
3	BRONZE CUT-OFF VALVE ABOVE CEILING. PROVIDE ACCESS PANEL WHERE LOCATED IN AN INACCESSIBLE CEILING. PANEL SHALL BE 12"X12" PAINTED TO MATCH CEILING.
4	WATER HAMMER ARRESTOR ABOVE CEILING. PROVIDE ACCESS PANEL WHERE LOCATED IN AN INACCESSIBLE CEILING. PANEL SHALL BE 12"x12" PAINTED TO MATCH CEILING.
5	PROVIDE SINK/LAV WITH SINGLE OUTLET THERMOSTATIC MIXING VALVE (TMV). WATTS LFMMV-US-M1. SET TEMPERATURE AS PER LOCAL JURISDICTION.
6	ROUTE RECIRCULATED HOT WATER LINE DOWN WALL. ROUTE MAXIMUM 2' LONG 1/2" BRANCH TO HOT WATER CONNECTION OF LAVATORY. CONTINUE 3/4" RECIRCULATED HOT WATER LINE BACK UP WALL.
7	INSTALL WATER HEATER ABOVE MOP SINK. REFER TO DETAIL 08/P4.1.
8	HOT WATER RECIRCULATING PUMP.
9	PRESSURE DROP ACTIVATED TRAP PRIMER. PROVIDE ACCESS PANEL IF INACCESSIBLE. SEE DETAIL 04/P4.1.
10	1/2" COPPER FROM TRAP PRIMER COVER WITH POLYETHYLENE SLEEVE "POLY SLEEVE" OR EQUAL. TYPICAL ALL TRAP-PRIMERS.

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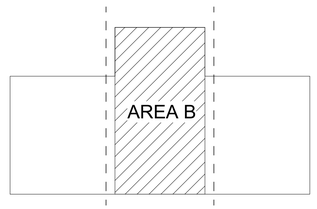

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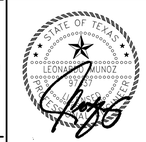

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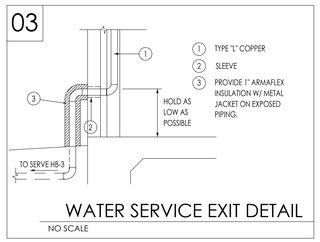
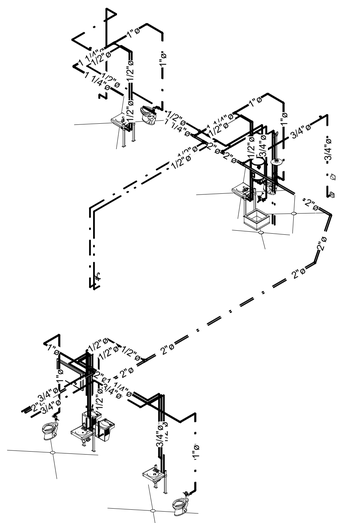
PLUMBING DOMESTIC WATER CONSTABLE PCT 4

P2.3



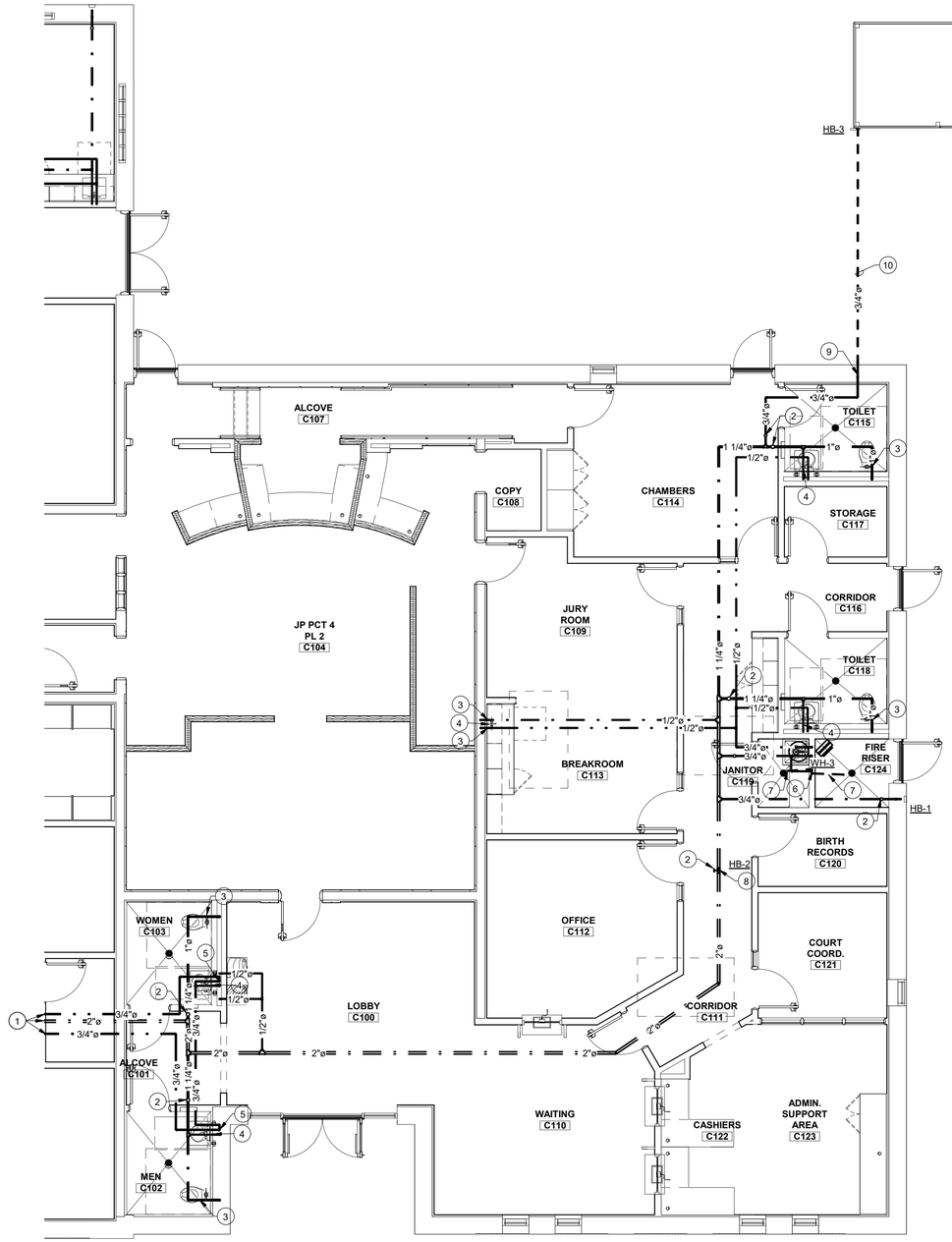
WATER SERVICE EXIT DETAIL

NO SCALE



PLUMBING DOMESTIC WATER JP PCT 4 PL2 RISER

2



PLUMBING DOMESTIC WATER- JP PCT 4 PL 2

3/16" = 1'-0"

1

N

GENERAL NOTES: PLUMBING

A. WHEN NOT SHOWN ON PLANS, INDIVIDUAL FIXTURE CONNECTIONS SHALL BE SIZE AS SHOWN ON PLUMBING FIXTURE SCHEDULE.

B. ISOMETRIC DIAGRAMS ARE FOR SIZING PURPOSES ONLY AND SHALL NOT BE USED FOR MATERIAL TAKE-OFFS, OR BE CONSTRUED TO INDICATE ACTUAL SITE INSTALLATION. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES.

C. DRAWING IS SCHEMATIC IN NATURE AND SHOW THE GENERAL LAYOUT OF THE FOLLOWING SYSTEM. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING. DEVICES AND EQUIPMENT WITH THE BUILDING ELEMENTS AND THE WORK WITH THE OTHER TRADES.

D. THIS INCLUDE BUT NOT LIMITED TO FURNISHING AND INSTALL ALL TRAPS, DRAINS AND SUPPLIES WITH STOPS.

PLUMBING KEYED NOTES

1	REFER TO SHEET 1/P2.3 FOR CW & HW PIPE CONTINUATION.
2	BRONZE CUT-OFF VALVE ABOVE CEILING. PROVIDE ACCESS PANEL WHERE LOCATED IN AN INACCESSIBLE CEILING. PANEL SHALL BE 12"X12" PAINTED TO MATCH CEILING.
3	WATER HAMMER ARRESTOR ABOVE CEILING. PROVIDE ACCESS PANEL WHERE LOCATED IN AN INACCESSIBLE CEILING. PANEL SHALL BE 12"x12" PAINTED TO MATCH CEILING.
4	PROVIDE SINK/LAV WITH SINGLE OUTLET THERMOSTATIC MIXING VALVE (TMV). WATTS LFMMV-US-M1. SET TEMPERATURE AS PER LOCAL JURISDICTION.
5	ROUTE RECIRCULATED HOT WATER LINE DOWN WALL. ROUTE MAXIMUM 2' LONG 1/2" BRANCH TO HOT WATER CONNECTION OF LAVATORY. CONTINUE 3/4" RECIRCULATED HOT WATER LINE BACK UP WALL.
6	PRESSURE DROP ACTIVATED TRAP PRIMER. PROVIDE ACCESS PANEL IF INACCESSIBLE. SEE DETAIL 04/P4.1.
7	1/2" COPPER FROM TRAP PRIMER COVER WITH POLYETHYLENE SLEEVE "POLY SLEEVE" OR EQUAL. TYPICAL ALL TRAP-PRIMERS.
8	1" CW UP TO SERVE ROOF MOUNT HOSE BIB.
9	3/4" CW DOWN TO SERVE HB-3. REFER TO DETAIL 03 ON THIS SHEET.
10	RUN 3/4" CW UNDERGROUND.

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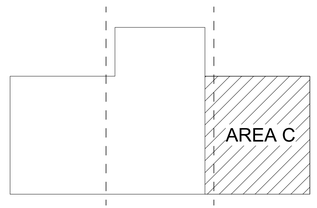

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PLUMBING DOMESTIC WATER JP PCT 4 PL 2

P2.4

PLUMBING GENERAL NOTES: (ALL SHEETS)

A. ALL WORK AND MATERIAL SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AS ADAPTED AND AMENDED BY THE INSPECTING AUTHORITIES.

B. ALL PLUMBING WORK SHALL BE INSTALLED SO AS TO AVOID CONFLICT WITH ALL ELECTRICAL WORK, MECH'L WORK AND STRUCTURAL MEMBERS. COORDINATE WITH MECHANICAL, ELEC'L AND STRUCTURAL FOR PROPER CLEARANCES.

C. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASING AND SEQUENCE OF CONSTRUCTION OF WORK.

D. SLEEVE ALL OUTSIDE WALL, FLOOR SLAB, AND GRADE BEAM PENETRATIONS PER DETAILS AND PER CODE.

E. LOCATE ALL PLUMBING VENTS TO ROOF (VTR) SO THAT THEY TERMINATE A MINIMUM OF 1'-0" AWAY FROM ANY VERTICAL SURFACE AND 10'-0" AWAY FROM ANY OUTSIDE AIR INTAKES.

F. RECORD INVERT ELEVATIONS OF ALL YCO'S ON "AS-BUILT" DRAWINGS.

G. MINIMUM 3" WASTE LINE BELOW FLOOR AND MINIMUM 2" WASTE RISER. UNLESS NOTED OTHERWISE (UNO).

H. PLUMBING CONTRACTOR SHALL PAY FOR ALL UTILITY CONNECTIONS FEES, PERMITS, TESTS AND INSPECTIONS. FURNISH 3 COPIES OF INSPECTION CERTIFICATE BEFORE REQUESTING FINAL PAYMENT.

I. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND REPAIRING ALL AREAS WHICH ARE DAMAGED BY HIS OPERATIONS.

J. CUTTING OF CONCRETE FLOORS SHALL BE BY MACHINE SAW. HOLES FOR PIPES (WALL OR FLOOR) SHALL BE DONE WITH CORE DRILLING EQUIPMENT WITH PRIOR APPROVAL FROM THE STRUCTURAL ENGINEERS.

K. PRESSURE TEST ALL INSTALLATIONS PRIOR TO CONNECTING EQUIPMENTS.

L. LABEL ALL PIPING PER ANSI STANDARD.

M. PROVIDE PROPER INSULATION ON ALL HOT WATER PIPING, STORM PIPING AND CONDENSATE PIPING.

N. PROVIDE SHUT-OFF VALVES (STOPS) ON ALL ROUGH-INS TO FIXTURES AND EQUIPMENTS.

O. PROVIDE ANY BACK FLOW PREVENTION DEVICE REQUIRED BY CODE OR GOVERNING AUTHORITIES. CONTRACTOR SHALL VERIFY THIS WITH CITY OR LOCAL AGENCIES AND INCLUDE COST OF SAME IN BID. CONTRACTOR TO HAVE BACK FLOWS CERTIFIED.

P. PROVIDE WATER HAMMER ARRESTORS AS INDICATED ON THE DRAWINGS. AIR CHAMBERS NOT AN APPROVED SUBSTITUTE.

Q. ALL EXPOSED PIPING FOR DESIGNATED DISABLED ACCESS FIXTURES SHALL BE COVERED OR OTHERWISE WRAPPED IN ACCORDANCE WITH A.D.A. REQUIREMENTS AND LOCAL AUTHORITY.

R. ALTERNATE MATERIALS NOT IDENTIFIED IN SPECIFICATIONS/DRAWINGS BUT APPROVED BY LOCAL AUTHORITY SHALL BE SUBMITTED TO ARCHITECT AND PLUMBING ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

S. ISOMETRIC DIAGRAMS ARE FOR SIZING PURPOSES ONLY AND SHALL NOT BE USED FOR MATERIAL TAKE-OFFS, OR BE CONSTRUED TO INDICATE ACTUAL SITE INSTALLATION.

T. DRAWING IS DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES.

U. EVERY FLOOR DRAIN, FLOOR SINK OR HUB DRAIN SHALL BE SERVED BY AN AUTOMATIC TRAP PRIMER, UNO.

PLUMBING PIPING MATERIAL:

1. SANITARY DRAIN & VENT INSIDE BUILDING BELOW GRADE: SCHEDULE 40 PVC
2. SANITARY DRAIN OUTSIDE BUILDING: SCHEDULE 40 PVC
3. SANITARY DRAIN & VENT INSIDE BUILDING ABOVE GRADE: SCHEDULE 40 PVC
4. SANITARY DRAIN & VENT IN PLENUM CEILING: NO-HUB CAST IRON
5. DOMESTIC HOT & COLD WATER: CPVC
6. DOMESTIC WATER BELOW GRADE: COPPER, TYPE "K" SOFT ANNEALED

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	BALL VALVE		DOMESTIC COLD WATER
	CHECK VALVE		DOMESTIC HOT WATER
	GATE VALVE		DOMESTIC HOT WATER RETURN
	UNION		SANITARY SEWER VENT
	DIRECTION OF FLOW		SANITARY WASTE LINE
	WALL CLEANOUT	120°	140° HOT WATER
	FLOOR CLEANOUT YARD CLEANOUT		SANITARY DIRECTION OF FLOW
	FLOOR SINK		BRANCH - TOP CONNECTION
	FLOOR DRAIN		PIPE RISER
	WALL HYDRANT OR HOSE BIBB		PIPE DROP
			POINT OF CONNECTION (APPROXIMATED FIELD VERIFY EXACT POINT OF CONNECTION)

NOTE: 1. NOT ALL SYMBOLS USED ON THIS PROJECT
2. INSTALL WATER CLOSET FLUSH VALVE HANDLE TOWARDS WIDER SIDE OF WATER CLOSET OR DOOR OPENING.
3. INSTALL ADA APPROVED FLUSH VALVE HANDLE FOR ADA PLUMBING FIXTURES.

ABBREV.	DESCRIPTION
AC	ABOVE CEILING
AFF	ABOVE FINISHED FLOOR
ASA	AMERICAN STANDARDS ASSOCIATION
ASME	AMERICAN SOICIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AW	ACID WASTE
AWWA	AMERICAN WATER WORKS ASSOCIATION
AV	ACID VENT
BTUH	BRITISH THERMAL UNIT PER HOUR
CA	COMPRESSED AIR
CI	CAST IRON
CO	CLEANOUT
CU	COPPER
DN	DOWN
EQ	EQUAL
FCO	FLOOR CLEANOUT
FF	FINISH FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT

ABBREV.	DESCRIPTION
GAL	GALLON(S)
GALV	GALVANIZED
GW	GREASE WASTE
HB	HOSE BIBB
HP	HORESPOWER
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
RD	ROOF DRAIN(S)
RE:4/P6	REFER TO DETAIL 4 DRAWING P-6
RO	REVERSE OSMOSIS
SD	STORM DRAIN
SPEC	SPECIFICATION
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
VTR	VENT THRU ROOF
V	VACUUM
W/	WITH
WCO	WALL CLEAN OUT
YCO	YARD CLEAN OUT

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE TYPE	CONNECTION SIZE				DESCRIPTION
		San. Sewer	Vent	Cold Water	Hot Water	
WC-1	WATER CLOSET FLOOR MOUNTED ADA	4"	2"	1"	-	ZURN MODEL NO. Z5665-BWL1, FLOOR MOUNTED WATER CLOSET, WITH ELONGATED RIM, 16-3/4" RIM HEIGHT, VITREOUS CHINA, SIPHON JET FLUSH ACTION 10"- 12" ROUGH IN, 1.1 GPF, WITH SLOAN "ROYAL" OPTIMA SENSOR OPERATED FLUSHOMETER MODEL NUMBER 111 SFSM (1.28 GPF) WITH TRANSFORMER MODEL NO. EL-386 (120VAC/24 VAC 50 VA). INCLUDES 1-1/2" TOP SPUD AND 2 BOLT CAPS, WITH "BENEKE" OPEN FRONT SEAT LESS COVER MODEL 5335S, FLUSH LEVER SHALL BE MOUNTED ON APPROACH SIDE OF FIXTURE.
L-1	LAVATORY WALL HUNG ADULT HANDICAPPED REFER TO ARCH'L DRAWING FOR MOUNTING HEIGHTS	2"	2"	1/2"	1/2"	ZURN MODEL NO. Z5110 SELF-RIMMING OVAL BASIN COUNTERTOP LAVATORY. CONCEALED FRONT OVERFLOW, VITREOUS CHINA, COMPLETE WITH INSTALLATION TEMPLATE. FAUCET HOLES ON 4" CENTERS PROVIDE SENSOR ACTIVATED ELECTRONIC FAUCET EQUAL TO SLOAN MODEL ETF-600 WITH TRANSFORMER MODEL NO. ETF-233 (120VAC/24 VAC 50 VA). VANDAL RESISTANT, ADA APPROVED. PROVIDE PROTECTIVE COVER ON P-TRAP AND STOPS. PROVIDE SINK/LAV WITH SINGLE OUTLET THERMOSTATIC MIXING VALVE (TMV). WATTS LFMMV-US-M1. SET TEMPERATURE AS PER LOCAL JURISDICTION.
SK-1	SINGLE-COMPARTMENT KITCHEN SINK	2"	2"	1/2"	1/2"	ELKAY LRAD2219-55-3 18-GAUGE, FULLY UNDERCOATED, STAINLESS STEEL, SINGLE-BOWL, THREE FAUCET HOLE, OFF-CENTER DRAIN, ADA COMPLIANT, 3-1/2-INCH OUTLET, FAUCET: ELKAY LKD2442-8H SERIES, LEDGE MOUNTED, 8-INCH CENTER-SET ESCUTCHEON, TWO WRIST BLADE HANDLES, 8-INCH GOOSENECK SPOUT. SUPPLY: MCGUIRE 2167 SERIES, TRAP: MCGUIRE 8912 SERIES, STRAINER AND TAILPIECE: MCGUIRE 151 SERIES, BASKET TYPE.
EDF-1	SINGLE ELECTRIC WATER COOLER SENSOR-ACTIVATED REFER TO ARCH'L DRAWING FOR MOUNTING HEIGHTS	2"	2"	1/2"	-	ELECTRIC WATER COOLER SENSOR OPERATED SHALL BE "ELKAY" MODEL No.LZOBL, STAINLESS STEEL VANDAL RESISTANT COOLER FILTERED 8 GPH WITH WALL HANGER, TRAP, STOP, ANCHOR AGAINST LIFT FORCE.
EDF-2	SINGLE ELECTRIC WATER COOLER SENSOR-ACTIVATED WITH BOTTLE FILLING STATION REFER TO ARCH'L DRAWING FOR MOUNTING HEIGHTS	2"	2"	1/2"	-	ELECTRIC WATER COOLER SENSOR OPERATED SHALL BE "ELKAY" MODEL No.LZOBL, STAINLESS STEEL VANDAL RESISTANT COOLER FILTERED 8 GPH WITH WALL HANGER, TRAP, STOP, ANCHOR AGAINST LIFT FORCE. PROVIDE EZH20 BOTTLE FILLING STATION.
MS-1	MOP SINK	3"	2"	1/2"	1/2"	FIAT MODEL NO. TSB100, 24"X24"X12" TERRAZO MOP SINK, COMPLETE WITH FAUCET MODEL 830-AA. MOP SINK SHALL INCLUDE ALL HOSE BRACKETS, HOSE, AND MOP HANGER. WITH 3" DRAIN WITH STRAINER & DEEP SEAL P-TRAP. PROVIDE WALL GUARD MSG2424.
IMC-1	ICE MAKER CONNECTION BOX	-	-	1/2"	-	CONNECTION BOX EQUAL TO GUY GRAY NO. BIM875 PREFABRICATED RECESSED BOX WITH COMPRESSION ANGLE VALVE.
HB-1	HOSE BIB EXTERIOR GENERAL USE	-	-	3/4"	-	MILD TEMPERATURE WALL HYDRANT SHALL BE WOODFORD MODEL B65 3/4" INLET WITH BRONZE CASING, BRONZE FACE AND STRAIGHT INLET CONNECTION WITH INTEGRAL BACKFLOW PREVENTER.
HB-2	ROOF MOUNT HOSE BIB	-	-	1"	-	CONNECTION WITH INTEGRAL BACKFLOW PREVENTER. NON-FREEZE HYDRANT SHALL BE WOODFORD MODEL RHY2-MS 1" INLET, PROTECTIVE HOUSING, AND BRONZE CASING, PROVIDE ROOF MOUNTING SYSTEM.
HB-3	YARD HOSE BIB	-	-	3/4"	-	ZURN MODEL Z1397XL 3/4" INLET, EXPOSED, LEAD FREE, NON FREEZE YARD HYDRANT.
FD-1	RESTROOM/JANITOR FLOOR DRAIN	AS NOTED ON PLANS				EQUAL TO JOSAM PART # 30003-6A-Y-50, CAST IRON BODY WITH CLAMP RING, FLANGE, ADJUSTABLE NIKALOY STRAINER, HUB OUTLET WITH GASKET AND 1/2" PRIMER TAP.
FCO	FLOOR CLEANOUT	AS NOTED ON PLANS				MIFAB MODEL "C1100-R-1" ADJUSTABLE FLOOR CLEANOUT, COMPLETE WITH NICKEL BRONZE TOP ASSEMBLY, LACQUERED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, AND PRIMARY GASKET SEAL.
YCO	YARD CLEANOUT	AS NOTED ON PLANS				MIFAB MODEL "C-1220" LACQUERED CAST IRON CLEANOUT, THREADED BRONZE PLUG FOR AIR TIGHT SEAL AND STANDARD REINFORCED SATIN FINISHED NICKEL BRONZE ADJUSTABLE TOP ASSEMBLY.
WCO	WALL CLEANOUT	AS NOTED ON PLANS				MIFAB MODEL "C1430-RD" CAST BRONZE CLEANOUT PLUG. COMPLETE WITH STAINLESS STEEL WALL ACCESS COVER AND ANCHOR SCREW. MOUNT 24" A.F.F.

NOTES:

1.) INSULATE ALL WATER AND WASTE PIPING UNDER LAVATORIES WITH HANDY-SHIELD JACKET BY PLUMBEREX.

2.) PROVIDE SINGLE FIXTURE WATER HAMMER ARRESTORS EQUAL TO MINI-RESTER , HYDRA-RESTER SIOUX CHIEF. FOR ALL PLUMBING FIXTURES IN THE WATER SUPPLY SYSTEM.

3.) ALL VITREOUS CHINA FIXTURES SHALL BE WHITE.

4.) FLOOR DRAIN/FLOOR SINK SHALL BE PRIMED WITH 1/2" COPPER LINE FROM NEARBY CLEAR WATER FIXTURE (LAVATORY). TAP CLEAR WATER FIXTURE TAIL PIECE WITH WATER SAVER TRAP PRIMER AND ROUTE COPPER SUPPLY LINE UNDER SLAB TO DRAIN PRIMER CONNECTION. WATER SAVER TRAP PRIMER SHALL ACCESSIBLE AND CODE APPROVED. IF A CLEAR WATER FIXTURE SUCH AS A LAVATORY IS NOT AVAILABLE TAP NEARBY COLD WATER LINE AND ROUTE 1/2" PRIMER LINE THROUGH PRIMER VALVE CODE APPROVED FOR WASTE/WATER CROSS CONNECTION. VALVE SHALL BE ACCESSIBLE.

RECIRCULATING PUMP SCHEDULE

MARK	GPM	FEET HEAD	H.P.	RPM	VOLTS/PHASE	REMARKS
CP-1	0-11	0-10	1/40	3250	115 volts/□	EQUAL TO TACO MODEL 006-B4 CARTRIDGE CIRCULATOR, MAINTENANCE FREE, WET-ROTOR, IN-LINE, SINGLE STAGE CIRCULATOR. PROVIDE TACO CLOCK TIMER AND TEMPERATURE AQUASTAT MODEL NO. 00 TIMERERS/AQUASTAT

ELECTRIC WATER HEATER SCHEDULE

DESIG.	STORAGE GALLONS	RECOVERY G.P.H.	DEGREE RISE °F	WATER TEMP. LEAVING	WATER INLET	WATER OUTLET	REMARKS
WH-1 WH-2 WH-3	19	10	60°	120°	3/4"	3/4"	BRADFORD MODEL NO. LD-WH20L3-1, 1.56KW, 208V/1□, ELECTRIC TANK TYPE. PROVIDE 5 GALLON EXPANSION TANK.

PLUM INDEX OF SHEETS	
P1.1	PLUMBING SEWER & VENT FLOOR PLAN
P1.2	PLUMBING SEWER & VENT JP PCT 4 PL 1
P1.3	PLUMBING SEWER & VENT CONSTABLE PCT 4
P1.4	PLUMBING SEWER & VENT JP PCT 4 PL 2
P2.1	PLUMBING DOMESTIC WATER FLOOR PLAN
P2.2	PLUMBING DOMESTIC WATER JP PCT 4 PL 1
P2.3	PLUMBING DOMESTIC WATER CONSTABLE PCT 4
P2.4	PLUMBING DOMESTIC WATER JP PCT 4 PL 2
P3.1	PLUMBING LEGEND - GENERAL NOTES & SCHEDULE
P4.1	PLUMBING DETAILS

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STATE OF TEXAS
LEONARD J. MUNOZ
103 REGISTERED
ENGINEER
12/10/2020

NO.	DATE	DESCRIPTION
		REVISIONS

HIDALGO COUNTY PRECINCT No. 4 NEW JUSTICE CENTER

HIDALGO COUNTY, TEXAS

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PROJECT NO: Project Number

DATE: 12/11/2020 11:55:08 AM

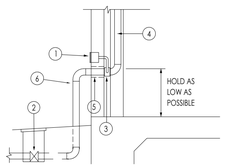
STARTING DATE:

CK BY: Checker | DWN BY: JG

PLUMBING LEGEND - GENERAL NOTES & SCHEDULE

P3.1

01



1. WALL HYDRANT - INSTALL LOW ENOUGH TO DRAIN RISER.
2. SHUT-OFF VALE IN CAST IRON BOX FLUSH WITH FINISHED GRADE
3. TEE
4. TYPE "L" COPPER
5. SLEEVE
6. PROVIDE 1" ARMAFLEX INSULATION W/ METAL JACKET ON EXPOSED PIPING.

WATER SERVICE ENTRANCE DETAIL

NO SCALE

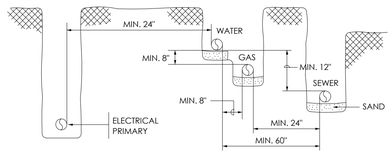
02

CLEAR TRENCH OF ALL ROCKS AND DEBRIS BEFORE ADDING SAND CUSHION.

COMPACT TRENCH FILL TO 95% PROCTOR DENSITY.

MAINTAIN A MINIMUM OF 60 INCHES UNDISTURBED EARTH BETWEEN PARALLEL WATER AND SEWER LINES OR SUPPORT WATER LINE ON SEPARATE SHELF A MINIMUM OF 12" ABOVE SEWER LINE.

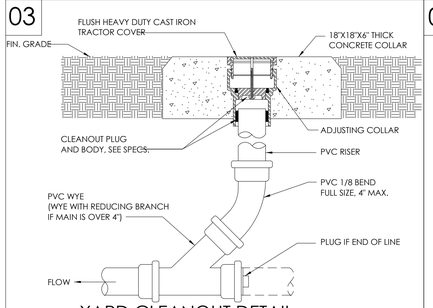
MAINTAIN A MINIMUM OF 24" HORIZONTALLY BETWEEN ELECTRICAL PRIMARY AND SEWER. MAINTAIN A MINIM OF 12" VERTICALLY OR 24" HORIZONTALLY BETWEEN ELECTRICAL PRIMARY AND WATER LINES, GAS LINES, TELEPHONE RACEWAYS AND CABLE RACEWAYS.



TRENCHING DETAIL

NO SCALE

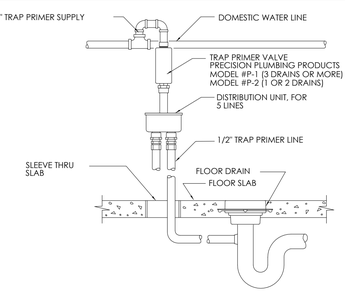
03



YARD CLEANOUT DETAIL

NO SCALE

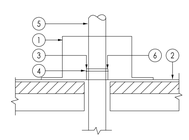
04



TRAP SEAL PRIMER DETAIL

NO SCALE

05

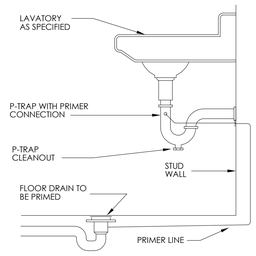


1. PREFABRICATED ROOF CURB. FURNISHED & INSTALLED BY ROOFING CONTR. (COORDINATE)
2. METAL ROOFING
3. STAINLESS STEEL CLAMP
4. SLEEVE PIPE BY ROOFING CONTR.
5. VTR
6. PROVIDE CAULKING GROVE
7. LOCATE MIN. 10'-0" FROM A/C AIR INTAKES

VENT THRU ROOF DETAIL

NO SCALE

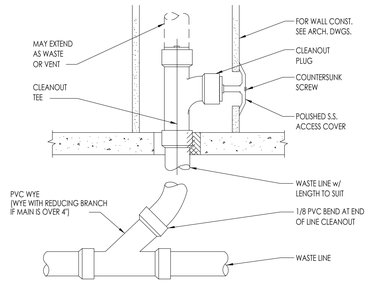
06



TRAP SEAL PRIMER INSTALLATION DETAIL

NO SCALE

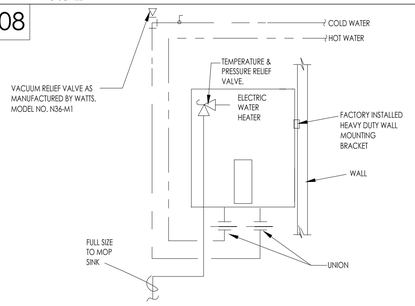
07



WALL CLEANOUT DETAIL

NO SCALE

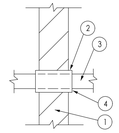
08



WALL MOUNTED ELECTRIC WATER HEATER

NO SCALE

09

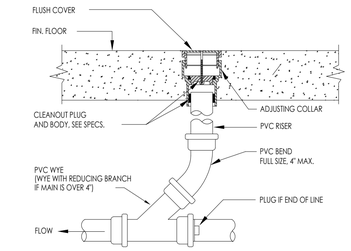


1. MASONRY WALL
2. GALVANIZED SCHEDULE 40 STEEL OR COPPER SLEEVE, SIZE TO BE MINIMUM 3/8" LARGER IN DIAMETER THAN PIPE AND INSULATION.
3. PLUMBING PIPE (RELIER LINES, DOMESTIC WATER, AIR, AND GAS PIPING).
4. FILL VOID WITH MINERAL WOOL AND CAULK VERMIN TIGHT.

WALL SLEEVE DETAIL

NO SCALE

10

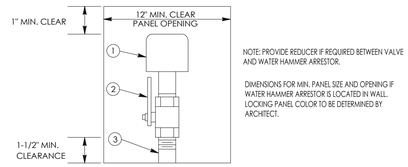


FLOOR CLEANOUT DETAIL

NO SCALE

11

1. WATER HAMMER ARRESTOR. SIZE AS PER MANUFACTURER'S SIZING TABLE.
2. BALL VALVE, SAME NOMINAL SIZE AS PIPE BRANCH. OPENING IN BALL VALVE TO MATCH PIPE I.D.
3. PIPE SAME SIZE AS BRANCH LINE TO WHICH IT IS ATTACHED.



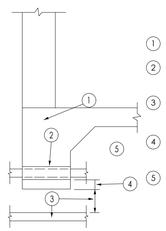
NOTE: PROVIDE REDUCER IF REQUIRED BETWEEN VALVE AND WATER HAMMER ARRESTOR.

DIMENSIONS FOR MIN. PANEL SIZE AND OPENING IF WATER HAMMER ARRESTOR IS LOCATED IN WALL. LOCKING PANEL COLOR TO BE DETERMINED BY ARCHITECT.

WATER HAMMER ARRESTOR DETAIL

NO SCALE

12

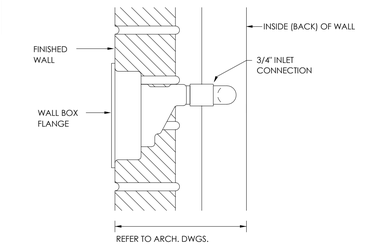


1. GRADE BEAM
2. GALVANIZED SCH 40 STEEL SLEEVE. SIZE PER SPECS. CENTER PIPE IN SLEEVE.
3. PIPING PASSING HORIZONTALLY UNDER GRADE BEAM SHALL BE LOCATED A MINIMUM OF 6" BELOW BEAM. PROVIDE A SLEEVE.
4. PIPING PASSING HORIZONTALLY THROUGH GRADE BEAM SHALL BE LOCATED NO LESS THAN 6" ABOVE BOTTOM OF BEAM.
5. COORDINATE LOCATIONS OF PIPING IN 3,4,5 ABOVE AS RELIEVING ARCHES OR ADDITIONAL CONCRETE MAY BE REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF BEAM.

GRADE BEAM SLEEVE DETAIL

NO SCALE

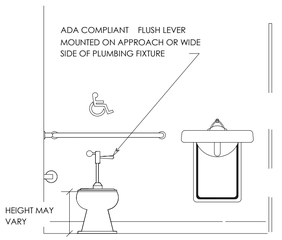
13



WALL HYDRANT DETAIL

NO SCALE

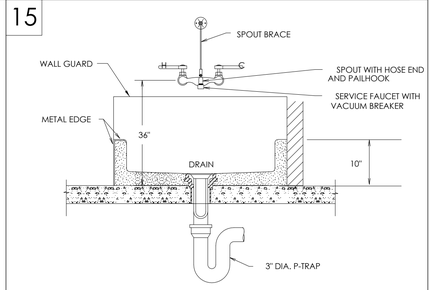
14



ADA WATER CLOSET DETAIL

NO SCALE

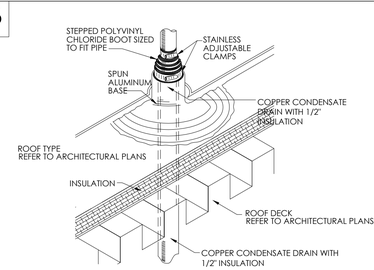
15



MOP SINK DETAIL

NO SCALE

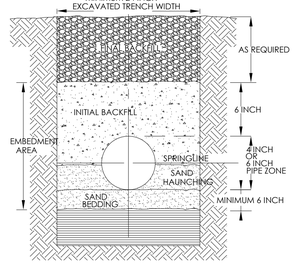
16



CONDENSATE PIPING THRU ROOF DETAIL

NO SCALE

17



UNDERGROUND INSTALLATION OF PLASTIC PIPE

PLASTIC PIPE SHOULD ALWAYS BE BURIED IN STRICT ACCORDANCE WITH THE ASTM STANDARD RELEVANT TO
THE TYPE OF PLASTIC PIPING SYSTEM BEING INSTALLED. THOSE STANDARDS ARE:

ASTM D2321 STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS.

ASTM D2774 STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PRESSURE PIPING.

NOTE: IN ADDITION TO THESE STANDARDS, PIPE SHOULD ALWAYS BE INSTALLED IN ACCORDANCE WITH ALL LOCAL CODE REQUIREMENTS.

RECOMMENDATIONS FOR UNDERGROUND INSTALLATION OF PLASTIC DRAINAGE PIPE:

1. THE MINIMUM WIDTH OF THE TRENCH SHOULD BE THE PIPE OD (OUTSIDE DIAMETER) PLUS 16 INCHES OR THE PIPE OUTSIDE DIAMETER TIMES 1.25 PLUS 12 INCHES, THIS WILL ALLOW ADEQUATE ROOM FOR JOINING THE PIPE, SNAKING THE PIPE IN THE TRENCH TO ALLOW FOR EXPANSION AND CONTRACTION WHERE APPROPRIATE AND SPACE FOR BACKFILLING AND COMPACTION OF BACKFILL. THE SPACE BETWEEN THE PIPE AND TRENCH WALL MUST BE WIDER THAN THE COMPACTION EQUIPMENT USED TO COMPACT THE BACKFILL.
2. PROVIDE A MINIMUM OF 4 INCHES OF FIRM, STABLE AND UNIFORM BEDDING MATERIAL IN THE TRENCH BOTTOM. IF ROCK OR UNYIELDING MATERIAL IS ENCOUNTERED, A MINIMUM OF 6 INCHES OF BEDDING SHALL BE USED. BLOCKING SHOULD NOT BE USED TO CHANGE PIPE GRADE OR TO INTERMITENTLY SUPPORT PIPE OVER LOW SECTIONS IN THE TRENCH.
3. THE PIPE SHOULD BE SURROUNDED WITH AN AGGREGATE MATERIAL WHICH CAN BE EASILY WORKED AROUND THE SIDES OF THE PIPE. BACKFILLING SHOULD BE PERFORMED IN LAYERS OF 6 INCHES WITH EACH LAYER BEING SUFFICIENTLY COMPACTED TO 85% TO 95% COMPACTION.
4. A MECHANICAL TAMPER IS RECOMMENDED FOR COMPACTING SAND AND GRAVEL. THESE MATERIALS CONTAIN FINE-GRAINS, SUCH AS SILT AND CLAY. IF A TAMPER IS NOT AVAILABLE, COMPACTING SHOULD BE DONE BY HAND.
5. THE TRENCH SHOULD BE COMPLETELY FILLED. THE BACKFILL SHOULD BE PLACED AND SPREAD IN UNIFORM LAYERS TO PREVENT ANY UNFILLED SPACES OR VOIDS. LARGE ROCKS, STONES, FROZEN CLODS, OR OTHER LARGE DEBRIS SHOULD BE REMOVED. STONE BACKFILL SHALL PASS THROUGH AN 1-1/2" SIEVE. ROCK SIZE SHOULD BE ABOUTONE-TENTH OF THE PIPE OUTSIDE DIAMETER. HEAVY TAMPERS OR ROLLING EQUIPMENT SHOULD ONLY BE USED TO CONSOLIDATE THE FINAL BACKFILL.
6. TO PREVENT DAMAGE TO THE PIPE AND DISTURBANCE TO PIPE EMBEDMENT, A MINIMUM DEPTH OF BACKFILL ABOVE THE PIPE SHOULD BE MAINTAINED. PIPE SHOULD ALWAYS BE INSTALLED BELOW THE FROST LEVEL. TYPICALLY, IT IS NOT ADVISABLE TO ALLOW VEHICULAR TRAFFIC OR HEAVY CONSTRUCTION EQUIPMENT TO TRAVERSE THE PIPE TRENCH.

UNDERGROUND INSTALLATION DETAIL OF PLASTIC PIPING SYSTEMS

NO SCALE

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Texas Registered Engineering Firm - F10362
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STATE OF TEXAS
LEONARD MENDOZ
103
12/10/2020

NO.	DATE	DESCRIPTION
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HIDALGO COUNTY PRECINCT No. 4 NEW JUSTICE CENTER

HIDALGO COUNTY, TEXAS

Enter address here

PROJECT NO: Project Number

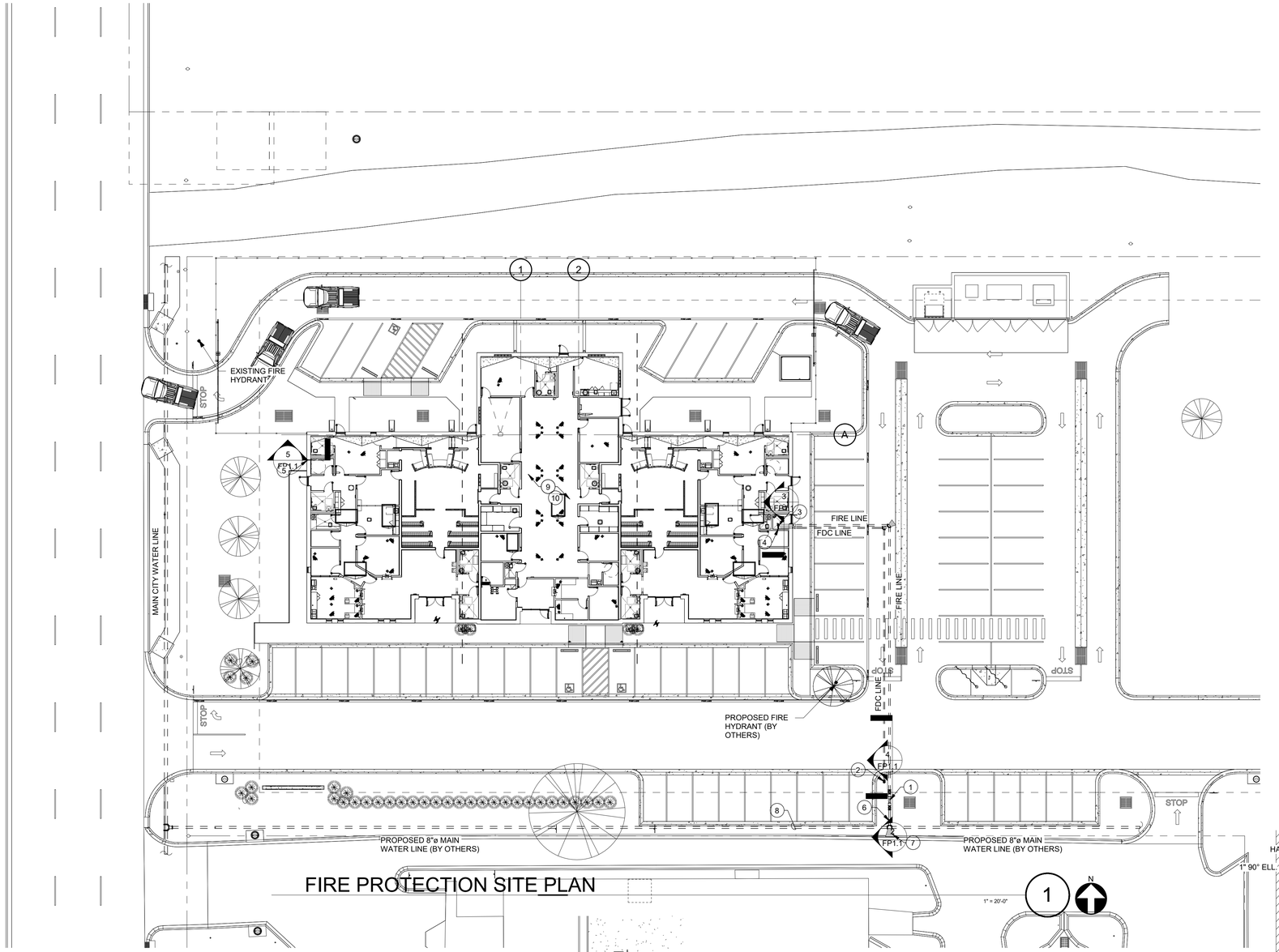
DATE: 12/11/2020 11:55:09 AM

STARTING DATE:

CK BY: Checker | DWN BY: JG

PLUMBING DETAILS

P4.1



FIRE PROTECTION SITE PLAN

1" = 20'-0"

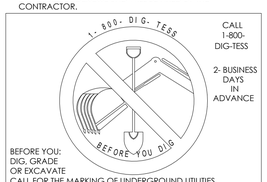
GENERAL NOTES - FIRE PROTECTION:

A. SYSTEM TO BE DESIGNED TO MEET CITY OF EDINBURG AND FIRE MARSHAL CODES. PLANS SHALL BE SUBMITTED TO THE CITY OF EDINBURG FOR REVIEW AND APPROVAL. FIRE MARSHAL TO BE THE FINAL APPROVING AUTHORITY FOR ALL FIRE PROTECTION WORK.
B. FIRE DEPARTMENT CONNECTION SHALL BE AS REQUIRED BY LOCAL FIRE MARSHAL.
C. ALL PIPE TO BE SIZED HYDRAULICALLY
D. ALL PIPING UNDER SLAB SHALL BE STAINLESS STEEL. ELSE USE DUCTILE IRON. VERIFY WITH LOCAL APPROVING AUTHORITY.
E. DETAILS DESCRIBE SOME SPRINKLER COMPONENTS REQUIRED BY A AUTOMATICALLY OPERATED SYSTEM. SPRINKLER CONTRACTOR TO PROVIDE ALL SYSTEM COMPONENTS REQUIRED FOR A TURN KEY FIRE SPRINKLER SYSTEM.
F. PROVIDE SIGNS FOR FDC, ALL VALVES, AND RISER.
G. HAZARD CLASSIFICATION SHALL BE AS PER NFPA 13.
H. ALL UNDERGROUND PIPE TO BE DR-18 C900 PURPLE LINE AND TO BE INSTALLED AS PER NFPA 24.
I. REFER TO SPECIFICATIONS FOR FURTHER INSTRUCTIONS.
J. ALL ABOVE CEILING PIPING WILL NEED TO BE ROUTED AROUND EXISTING CONDUITS, BEAMS, MECHANICAL DUCT WORK AND DRAIN LINES. ALL PIPE LEFT WITH TRAP WATER NEEDS TO BE PROVIDED W/ A DRAIN VALVE.
K. SEAL ALL WALL OPENINGS W/ MORTAR OR FIRE CAULKING.
L. BIDDING CONTRACTOR SHALL PROVIDE A SITE FLOW TEST TO BETTER ESTIMATE THE SIZE OF THE FIRE SPRINKLER SYSTEM PRIOR TO BID DATE.
M. NO FIRE SPRINKLER PIPING TO RUN OVER ELECTRICAL EQUIPMENT, IT ROOM AND ANY OTHER SYSTEM THAT MAY BE DAMAGED FROM WATER LEAK.

FIRE PROTECTION KEYED NOTES

1	PROVIDE BACKFLOW PREVENTER. CONTRACTOR COORDINATE EXACT LOCATION.SEE DETAIL 2/FP1.1.
2	PLACE F.D.C. IN THIS LOCATION. COORDINATE EXACT LOCATION WITH A H.J. PROVIDE SIGN WITH BUILDING IT SERVES. SEE DETAIL 4/FP1.1.
3	FIRE SPRINKLER SYSTEM RISER SHALL BE PLACED IN THIS ROOM.SEE DETAIL 3/FP1.1.
4	DROP F.D.C. LINE DOWN AND PROVIDE STAINLESS STEEL RISER AT FLOOR PENETRATION.
5	PROVIDE INSPECTOR'S TEST. CONTRACTOR COORDINATE EXACT LOCATION. INSPECTOR'S TEST SHALL BE INSIDE A FURR-OUT WITH ACCESS PANEL IF INSPECTOR'S TEST IS LOCATED IN COMMON AREA. SEE DETAIL 5/FP1.1.
6	FIRE SPRINKLER LINE TO CONNECT TO EXISTING MAIN WATER LINE.SEE DETAIL 2/FP1.1.
7	3000 PSI CONCRETE THRUST BLOCK AT EVERY CHANGE IN DIRECCION AS PER NFPA24.
8	PROPOSED 8" (BY OTHERS). REFER TO CIVIL PLANS FOR EXACT SIZE AND LOCATION.
9	THIS IS A NEW BUILDING FACILITY. PROVIDE A NEW FIRE PROTECTION SYSTEM. COORDINATE WITH ALL OTHER TRADES.
10	PROVIDE CONCEALED PENDANT SPRINKLER HEAD AND BRASS UPRIGHT IN OPEN AREAS.

NOTE: CARE SHALL BE TAKEN DURING DIGGING. ALL LINES DAMAGED UNDERGROUND WILL BE FIXED BY THE CONTRACTOR.

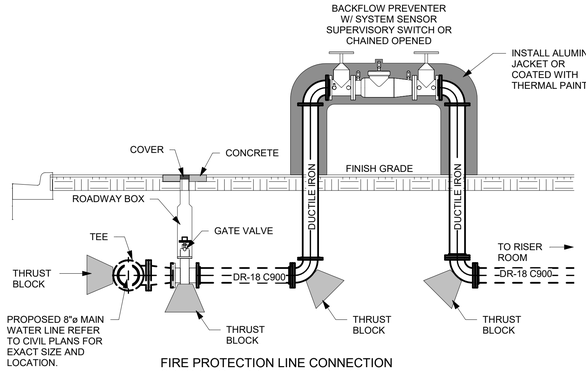


CALL 1-800-DIG-TESS

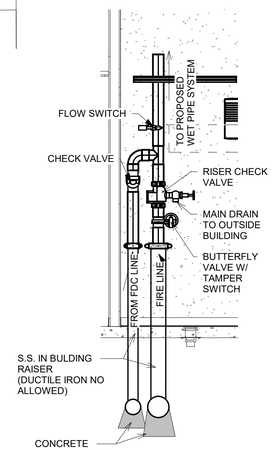
2- BUSINESS DAYS IN ADVANCE

BEFORE YOU: DIG, GRADE OR EXCAVATE CALL FOR THE MARKING OF UNDERGROUND UTILITIES

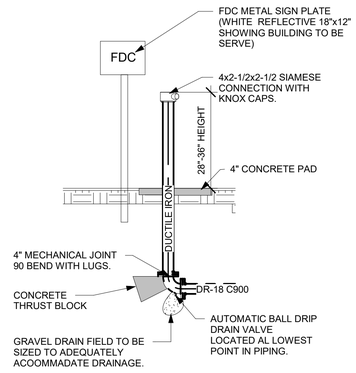
EXTREME CAUTION CONTRACTOR TO VERIFY EXISTING UTILITIES PRIOR TO ANY WORK



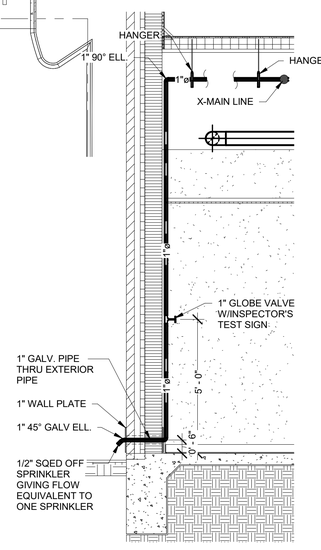
2 FIRE PROTECTION LINE CONNECTION &BACKFLOW PREVENTER DETAIL
3/8" = 1'-0"



3 RISER ROOM DETAIL
3/8" = 1'-0"



4 FREE STANDING FDC DETAIL
3/8" = 1'-0"



5 INSPECTOR'S TEST DETAIL
3/8" = 1'-0"

TRINITY
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Texas Registered Engineering Firm - F10362
Project number: 20.1.26

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STATE OF TEXAS
LEONARD J. MUNOZ
103267
LICENSED PROFESSIONAL ENGINEER
12/10/2020

NO.	DATE	REVISIONS DESCRIPTION

HIDALGO COUNTY PRECINCT No. 4 NEW JUSTICE CENTER

HIDALGO COUNTY, TEXAS

Enter address here

PROJECT NO: Project Number
DATE: 12/11/2020 11:53:58 AM
STARTING DATE:
CK BY: Checker DWN BY: Author

FIRE PROTECTION PLAN

FP1.1