



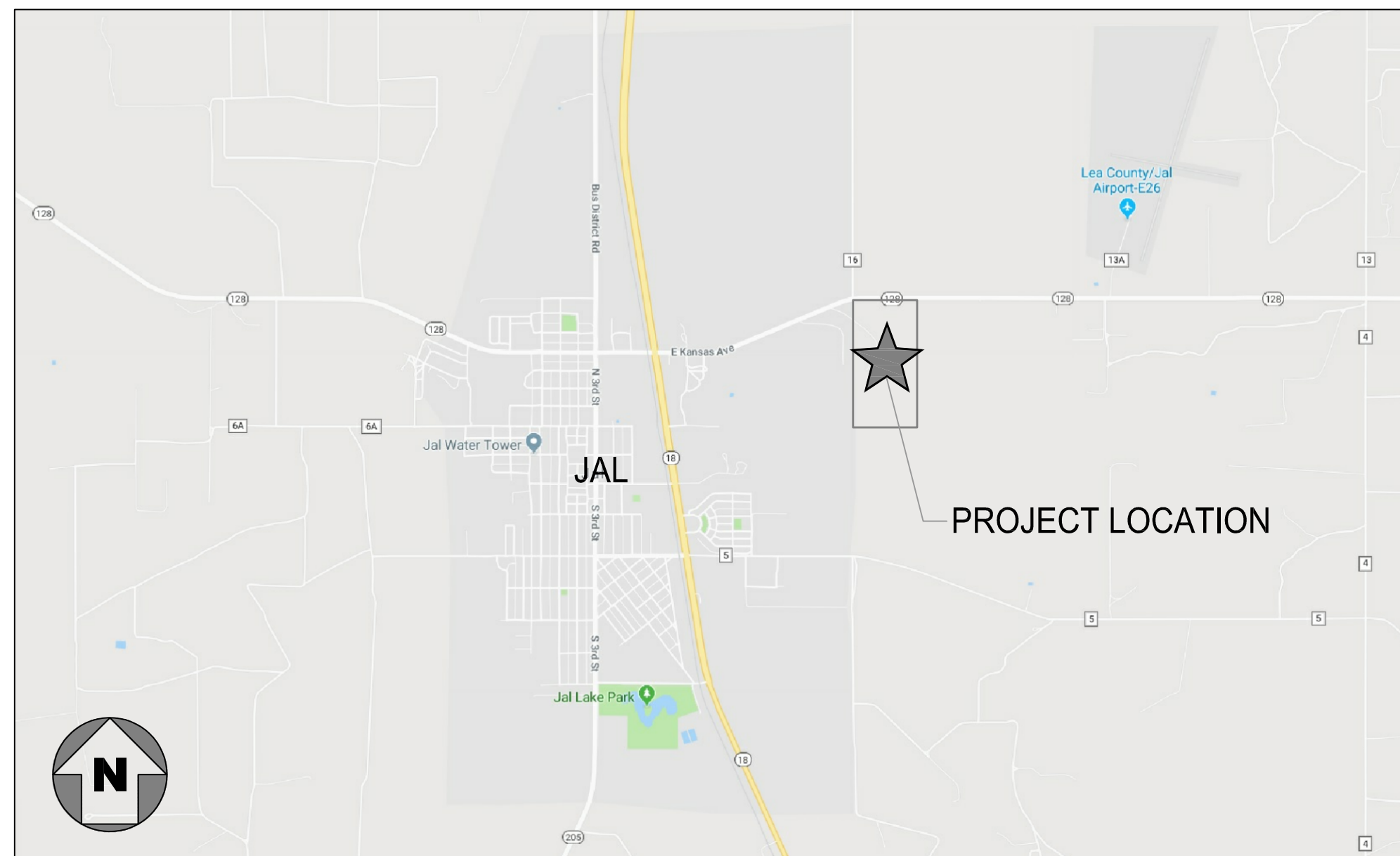
CRIOLLO LODGE

1218 KIZZER LANE
JAL, NEW MEXICO 88252

ISSUED FOR CONSTRUCTION - 10/03/2019

Jacobs

777 Main Street
Fort Worth, TX 76102



VICINITY MAP
NOT TO SCALE

PROJECT DESCRIPTION

AMITY LODGES IS IN THE PROCESS OF DEVELOPING A NEW 558-BED EXECUTIVE STYLE HOUSING WORKFORCE CAMP TO BE CALLED CRIOLLO LODGE. THE LODGE WILL BE LOCATED ON AN 80+ ACRE SITE IN LEA COUNTY, NEW MEXICO. THE LODGE WILL PROVIDE HOUSING AND SUPPORT FOR OIL AND GAS FIELD WORKERS IN AND AROUND THE DELAWARE BASIN OF NEW MEXICO AND TEXAS. THE MODULAR UNITS ARE EXISTING, WITH THE EXCEPTION OF THREE NEW ACCESSORY UNITS, AND WILL BE RELOCATED FROM A FORMER WORK CAMP. TWO ENTRANCE PORCHES, ONE ENTRANCE CANOPY, ONE LOADING DOCK, AND SEVERAL EGRESS STAIRS WILL BE SITE BUILT.

PROJECT LOCATION:

SECTION 21, T25S, R37E, N.M.P.M LEA COUNTY, NEW MEXICO

BUILDING CODES

THIS FACILITY SHALL COMPLY WITH THE FOLLOWING CODES AS AMENDED BY TITLE 14 (HOUSING AND CONSTRUCTION) OF THE NEW MEXICO ADMINISTRATIVE CODE (NMAC) UNDER THE ISSUING AGENCY OF THE CONSTRUCTION INDUSTRIES DIVISION (CID) OF THE REGULATION AND LICENSING DEPARTMENT:

2015 INTERNATIONAL BUILDING CODE, AS AMENDED BY THE NMCBC
2015 INTERNATIONAL EXISTING BUILDING CODE, AS AMENDED BY THE NMEBC
2015 INTERNATIONAL RESIDENTIAL CODE, AS AMENDED BY THE NMRC
2015 UNIFORM PLUMBING CODE, AS AMENDED BY THE NMPC
2015 UNIFORM MECHANICAL CODE, AS AMENDED BY THE NMMC
2017 NATIONAL ELECTRICAL CODE, AS AMENDED BY THE NMEC
2009 INTERNATIONAL ENERGY CONSERVATION CODE, AS AMENDED BY THE NMECC

PROJECT DESIGN PROFESSIONALS:

MATTHEW A. HOLLEB, AIA - PRINCIPAL DESIGN PROFESSIONAL

NICOLE HAYES, P.E. - LEAD CIVIL ENGINEER

SCOTT HINTE, P.E. - LEAD MECHANICAL/PLUMBING ENGINEER

RANDY WALKER, P.E. - LEAD ELECTRICAL ENGINEER

TIMOTHY POTYRAJ, P.E. - LEAD STRUCTURAL ENGINEER

WILLIAM ALLAN CLAY, P.E. - LEAD FIRE PROTECTION ENGINEER



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C-002	GENERAL NOTES
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CS102	SITE PLAN - AREA 2
CS103	SITE PLAN - AREA 3
CS104	SITE PLAN - AREA 4
CG100	OVERALL GRADING PLAN
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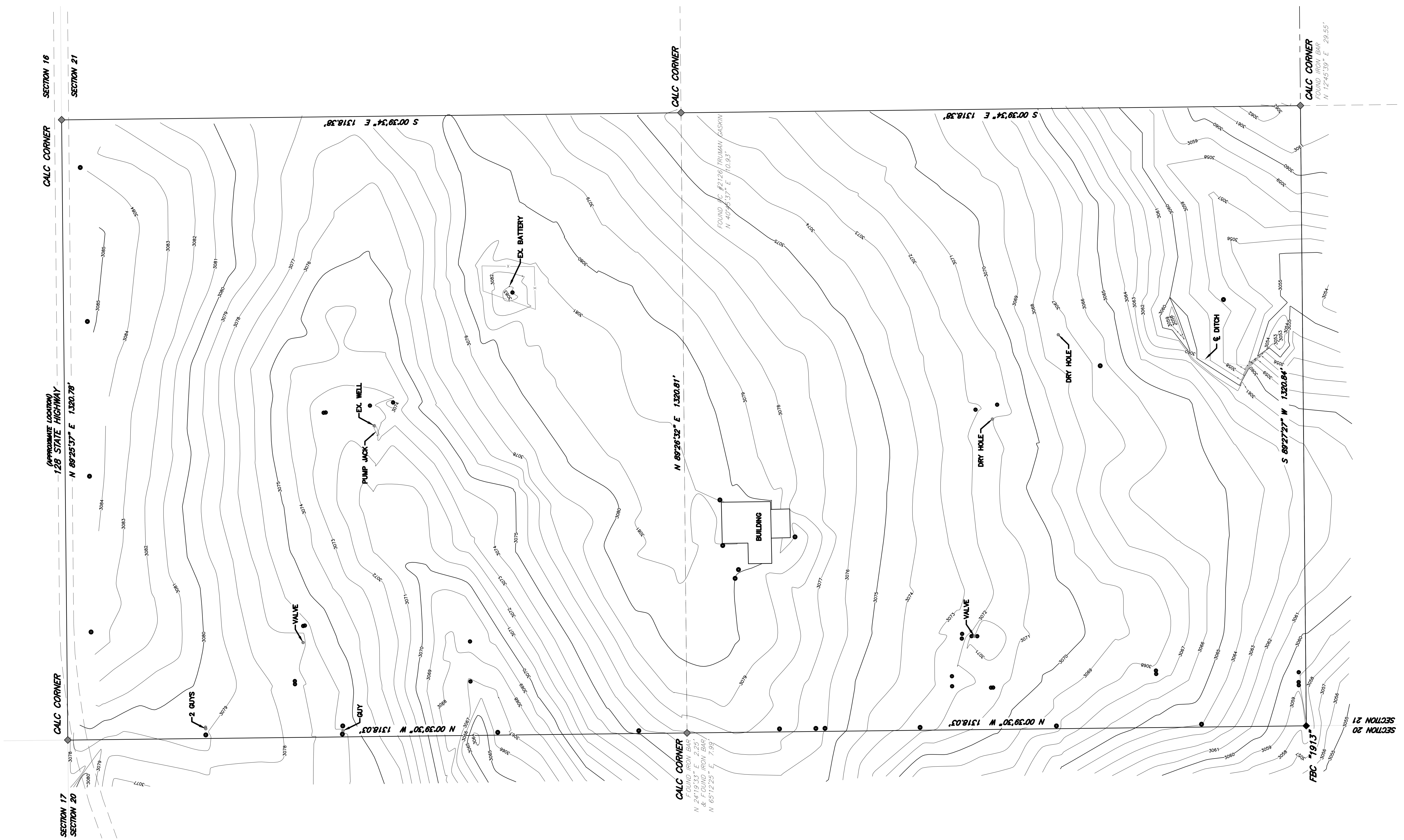
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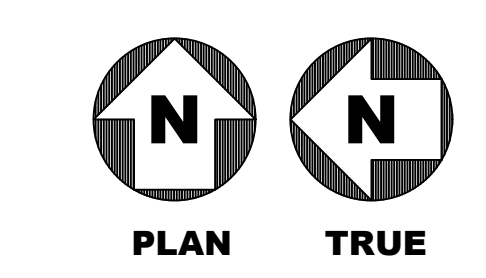
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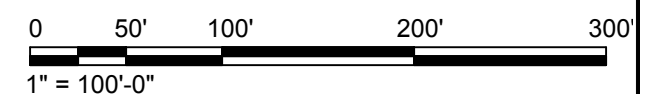
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CALCULATED CORNER
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SECTION LINE

TOPOGRAPHIC SURVEY BY OTHERS FOR REFERENCE ONLY



BEARINGS ARE GRID NAD 83
NM EAST
DISTANCES ARE HORIZ. GOUND.



Jacobs

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Fort Worth, TX 76102

FOR
REFERENCE
ONLY

AMITY
LODGES

CRIOLLO LODGE

1218 KIZZER LANE

JAL, NEW MEXICO 88252

PROJECT NUMBER:
WFXP7601
DATE ISSUED:
10-3-19

ISSUES:
A: FOR REVIEW ONLY 10/3/19
B: INTERIM SUBMITTAL 5/01/2019
C: 95% PROGRESS SET 6/21/2019
D: FOR CONSTRUCTION 10/03/2019

REVISIONS:

SHEET CONTENTS:
TOPOGRAPHIC SURVEY

SHEET NUMBER:
V-100

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GENERAL NOTES:

- COORDINATION OF WORK: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE HIS WORK WITH ANY PUBLIC OR PRIVATE UTILITY ENGAGED IN INSTALLATION OF NEW OR ADJUSTMENT OF EXISTING FACILITIES ON THE PROJECT SITE.
- BARRICADES AND WARNING SIGNS: BARRICADES AND WARNING SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF NEW MEXICO DEPARTMENT OF TRANSPORTATION (NMDOT) AND/OR AS DIRECTED BY THE ENGINEER. CONSTRUCTION OF SIGNING AND BARRICADES SHALL CONFORM WITH "2019 STANDARD DRAWINGS AND SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION".
- DRAINAGE CHANNELS: WHERE SURFACE DRAINAGE CHANNELS ARE TEMPORARILY DISTURBED OR BLOCKED DURING CONSTRUCTION, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR GRADE AND CROSS SECTION AFTER THE WORK OF CONSTRUCTION IS COMPLETED.
- CLEAN-UP FOR FINAL ACCEPTANCE: THE CONTRACTOR SHALL MAKE A FINAL CLEAN-UP OF ALL PARTS OF THE WORK BEFORE ACCEPTANCE BY THE DEVELOPER OR HIS REPRESENTATIVE. THIS CLEAN-UP SHALL INCLUDE REMOVAL OF ALL OBJECTIONABLE MATERIALS AND, IN GENERAL, PREPARING THE SITE OF THE WORK IN AN ORDERLY MANNER OF APPEARANCE.
- PROTECTION OF EXISTING UTILITIES AND IMPROVEMENTS: THE CONTRACTOR SHALL TAKE ADEQUATE MEASURES TO PROTECT ALL EXISTING STRUCTURES, IMPROVEMENTS, AND UTILITIES WHICH MAY BE ENCOUNTERED.
- PROPERTY LINES AND MONUMENTS: THE CONTRACTOR SHALL PROTECT ALL PROPERTY CORNER MARKERS, AND WHEN ANY SUCH MARKERS OR MONUMENTS ARE IN DANGER OF BEING DISTURBED, THEY SHALL BE PROPERLY REFERENCED AND IF DISTURBED SHALL BE RESET AT THE EXPENSE OF THE CONTRACTOR.
- PARKING OF CONSTRUCTION EQUIPMENT: AT NIGHT AND DURING ALL OTHER PERIODS OF TIME WHEN EQUIPMENT IS NOT BEING ACTIVELY USED ON THE CONSTRUCTION WORK, THE CONTRACTOR SHALL PARK THE EQUIPMENT AT LOCATIONS WHICH ARE APPROVED BY THE DEVELOPER. THE CONTRACTOR SHALL PROVIDE ADEQUATE BARRICADES, MARKERS AND LIGHTS TO PROTECT THE DEVELOPER, THE CITY, THE PUBLIC AND THE OTHER WORK. ALL BARRICADES, LIGHTS, AND MARKERS MUST MEET THE REQUIREMENTS OF CITY, STATE AND FEDERAL REGULATIONS.
- ACCESS ROUTES, STAGING AREAS AND STORAGE AREAS: ALL HAUL ROADS AND ACCESS ROUTES AND THE LOCATION OF ALL STAGING AREAS AND STORAGE AREAS SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND REPAIRING ALL ROADS AND OTHER FACILITIES USED DURING CONSTRUCTION. UPON COMPLETION OF THE PROJECT ALL EXISTING ROADS SHALL BE LEFT IN A CONDITION EQUAL TO THAT AT THE TIME THE CONTRACTOR COMMENCES WORK ON THIS PROJECT.
- EXISTING UTILITIES: THE LOCATION AND DIMENSIONS SHOWN ON THE PLANS RELATIVE TO EXISTING UTILITIES ARE BASED ON THE BEST INFORMATION AVAILABLE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF ADJACENT AND/OR CONFLICTING UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION IN ORDER THAT HE MAY NEGOTIATE SUCH LOCAL ADJUSTMENTS AS NECESSARY IN THE CONSTRUCTION PROCESS TO PROVIDE ADEQUATE CLEARANCES. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS IN ORDER TO PROTECT ALL SERVICES ENCOUNTERED. ANY DAMAGE TO UTILITIES RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED AT HIS EXPENSE.
- EXCESS MATERIAL: SUITABLE EXCAVATED MATERIAL SHALL BE DISPOSED OF ON THE SITE AT LOCATIONS DIRECTED BY THE ENGINEER. UNSUITABLE MATERIAL IS DEFINED AS ROCKS MEASURING LARGER THAN 4" IN THE LARGEST DIMENSION. UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR AT HIS EXPENSE.
- TRENCH SAFETY: IT SHALL BE THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR TO PROVIDE AND MAINTAIN A VIABLE TRENCH SAFETY SYSTEM AT ALL TIMES DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR IS DIRECTED TO BECOME KNOWLEDGEABLE AND FAMILIAR WITH THE STANDARDS AS SET BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION'S (OSHA) FOR TRENCH SAFETY THAT WILL BE IN EFFECT DURING THE PERIOD OF CONSTRUCTION OF THE PROJECT.
- COORDINATION WITH OTHERS: IN THE EVENT THAT OTHER CONTRACTORS ARE DOING WORK IN THE SAME AREA SIMULTANEOUSLY WITH THIS PROJECT, THE CONTRACTOR SHALL COORDINATE HIS PROPOSED CONSTRUCTION WITH THAT OF THE OTHER CONTRACTORS.
- COMPLIANCE WITH LAWS: THE CONTRACTOR SHALL FULLY COMPLY WITH ALL LOCAL, STATE AND FEDERAL LAWS, INCLUDING ALL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS CONTRACT AND THE WORK TO BE DONE THEREUNDER, WHICH EXIST OR WHICH MAY BE ENACTED LATER BY GOVERNMENTAL BODIES HAVING JURISDICTION OR AUTHORITY FOR SUCH ENACTMENT. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, IMPACT AND INSPECTION FEES, ANY CITY FEES AND LICENSES NECESSARY FOR THE EXECUTION OF THE WORK AND SHALL FULLY COMPLY WITH ALL THEIR TERMS AND CONDITIONS. WHEREVER THE WORK UNDER THIS CONTRACT REQUIRES THE OBTAINING OF PERMITS FROM THE CITY OF JAL OR OTHER PUBLIC AUTHORITIES, DUPLICATE COPIES OF SUCH PERMITS SHALL BE FURNISHED TO THE ENGINEER BY THE CONTRACTOR HEREUNDER BEFORE THE WORK COVERED THEREBY IS STARTED. NO WORK WILL BE ALLOWED TO PROCEED BEFORE SUCH PERMITS ARE OBTAINED. ALL WORK REQUIRED UNDER THIS CONTRACT SHALL COMPLY WITH ALL REQUIREMENTS OF LAW, REGULATION, PERMIT OR LICENSE. IF THE CONTRACTOR FINDS THAT THERE IS A VARIANCE, HE SHALL IMMEDIATELY REPORT THIS TO THE DEVELOPER FOR RESOLUTION.
- REMOVAL OF DEFECTIVE AND UNAUTHORIZED WORK: ALL WORK WHICH HAS BEEN REJECTED OR CONDEMNED SHALL BE REPAIRED; OR IF IT CANNOT BE REPAIRED SATISFACTORILY, IT SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. DEFECTIVE MATERIALS SHALL BE IMMEDIATELY REMOVED FROM THE WORK SITE. WORK DONE BEYOND THE LINE OR NOT IN CONFORMITY WITH THE GRADES SHOWN ON THE DRAWINGS OR AS PROVIDED, WORK DONE WITHOUT PROPER INSPECTION; OR ANY EXTRA OR UNCLASSIFIED WORK DONE WITHOUT WRITTEN AUTHORITY AND PRIOR AGREEMENT IN WRITING AS TO PRICES, SHALL BE AT THE CONTRACTOR'S RISK, AND WILL BE CONSIDERED UNAUTHORIZED, AND AT THE OPTION OF THE DEVELOPER MAY NOT BE MEASURED AND PAID FOR AND MAY BE ORDERED REMOVED AT THE CONTRACTOR'S EXPENSE. UPON FAILURE OF THE CONTRACTOR TO REPAIR SATISFACTORILY OR TO REMOVE AND REPLACE, IF SO DIRECTED, REJECTED, UNAUTHORIZED OR CONDEMNED WORK OR MATERIALS IMMEDIATELY AFTER RECEIVING NOTICE FROM THE DEVELOPER, THE DEVELOPER WILL, AFTER GIVING WRITTEN NOTICE TO THE CONTRACTOR, HAVE THE AUTHORITY TO CAUSE DEFECTIVE WORK TO BE REMEDIED OR REMOVED AND REPLACED, OR TO CAUSE UNAUTHORIZED WORK TO BE REMOVED AND TO DEDUCT THE COST THEREOF FROM ANY MONIES DUE OR TO BECOME DUE THE CONTRACTOR.
- DURING CONSTRUCTION: DURING CONSTRUCTION OF THE WORK, THE CONTRACTOR SHALL, AT ALL TIMES, KEEP THE SITE OF THE WORK AND ADJACENT PREMISES AS FREE FROM MATERIAL, DEBRIS AND RUBBISH AS IS PRACTICABLE AND SHALL REMOVE SAME DEBRIS OR RUBBISH IF IT CONSTITUTES A NUISANCE OR IS OBJECTIONABLE. IN CASE OF FAILURE ON THE PART OF THE CONTRACTOR TO MAINTAIN A CLEAN SITE, THE DEVELOPER MAY, UPON 24 HOUR WRITTEN NOTICE, CLEAN THE SITE, AND THE COST THEREOF SHALL BE DEDUCTED FROM ANY MONIES DUE OR TO BECOME DUE TO THE CONTRACTOR UNDER HIS CONTRACT; OR WHERE SUFFICIENT CONTRACT FUNDS ARE UNAVAILABLE FOR THIS PURPOSE, THE CONTRACTOR OR HIS SURETY SHALL REIMBURSE THE DEVELOPER FOR ALL SUCH COSTS.
- RECORD DRAWINGS: EACH CONTRACTOR SHALL MAINTAIN AN ACCURATE RECORD OF THE INSTALLATION OF ALL MATERIALS AND SYSTEMS COVERED BY HIS CONTRACTUAL AGREEMENT. THESE RECORD PRINTS WILL BE REVIEWED BY THE DEVELOPER EACH MONTH PRIOR TO THE PRELIMINARY REVIEW OF CONTRACTOR'S REQUEST FOR PAYMENT. IF THE DRAWINGS ARE NOT COMPLETE, ACCURATE AND UP-TO-DATE, THE PAYMENT REQUEST WILL NOT BE ACCEPTED BY THE DEVELOPER. THE COMPLETED SET OF "RECORD" DRAWINGS MUST BE DELIVERED TO THE DEVELOPER BEFORE REQUESTING FINAL PAYMENT.
- INSPECTION AND TESTING: INSPECTION AND TESTING OF THE PROPOSED CONSTRUCTION WILL BE PROVIDED BY THE DEVELOPER AND THE AGENCIES HAVING JURISDICTION OVER THE PROJECT. COSTS FOR INSPECTION AND TESTING SERVICES WILL BE ASSUMED BY THE DEVELOPER AND/OR CITY.
- STORM WATER POLLUTION PREVENTION PLAN (SWPPP): THE CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH THE CONDITIONS OF THE SWPPP WHILE CONDUCTING ACTIVITIES ON THIS PROJECT. IN ADDITION TO CONSTRUCTING THOSE ITEMS INDICATED ON THE PLAN SHEETS, COMPLIANCE WITH THE SWPPP INCLUDE CONFORMANCE TO CERTAIN PRACTICES AND PROCEDURES (IDENTIFIED IN THE SWPPP) DURING PROJECT CONSTRUCTION. THE CONTRACTOR SHALL BE REQUIRED TO SIGN AND SUBMIT TO ENVIRONMENTAL PROTECTION AGENCY A NOTICE OF INTENT, CONTRACTOR CERTIFICATION AND NOTICE OF TERMINATION, ALL OF WHICH WILL BE PROVIDED REPORTS AND EVENT REPORTS) TO OWNER. ALL REPORTS TO BE FILED DURING THE PAY PERIOD SHALL BE INCLUDED WITH THE PAY APPLICATION BEFORE THE PAY APPLICATION WILL BE PROCESSED. CONTRACTOR SHALL SUBMIT TO OWNER A COPY OF THE COMPLETE SWPPP BINDER WITH THE FINAL PAY APPLICATION. INCLUDE ALL REPORTS, NOI'S, AND THE NOT. THE NOT SHALL NOT BE FILED AND THE CONTRACTOR WILL REMAIN RESPONSIBLE UNTIL FINAL PAYMENT IS MADE.
- SUBSURFACE EXPLORATION: BEYOND ENGINEERING & TESTING HAS MADE AN INVESTIGATION OF SUBSURFACE SOIL CONDITIONS FOR THE PROJECT SITE (AMITY LODGES), THE RESULTS OF WHICH CAN BE FOUND IN THEIR REPORT NO. GT1811012 DATED JANUARY 22, 2019. TEST BORINGS HAVE BEEN MADE AT VARIOUS LOCATIONS WITHIN THE CONSTRUCTION AREA AND THE RESULTS OF SUCH BORINGS, INCLUDING THE COMPLETE SOIL REPORT, ARE INCLUDED IN THESE SPECIFICATIONS. SOIL INVESTIGATION DATA IS PROVIDED ONLY FOR INFORMATION AND THE CONVENIENCE OF BIDDERS. THE DEVELOPER AND ENGINEER DISCLAIM ANY RESPONSIBILITY FOR THE ACCURACY, TRUE LOCATION AND EXTENT OF THE SOILS INVESTIGATION THAT HAS BEEN PREPARED BY OTHERS. THEY FURTHER DISCLAIM RESPONSIBILITY FOR INTERPRETATION OF THAT DATA BY BIDDERS, AS IN PROJECTING SOIL BEARING VALUES, ROCK PROFILES, SOILS STABILITY AND THE PRESENCE, LEVEL AND EXTENT OF UNDERGROUND WATER. BIDDERS SHALL MAKE ANY INVESTIGATION OF EXISTING SUBSURFACE CONDITIONS AS DEEMED NECESSARY AT NO EXPENSE TO THE DEVELOPER. NEITHER THE DEVELOPER NOR ENGINEER WILL BE RESPONSIBLE IN ANY WAY FOR ADDITIONAL COMPENSATION FOR EXCAVATION WORK PERFORMED UNDER THIS CONTRACT DUE TO CONTRACTOR'S ASSUMPTIONS BASED ON SUBSOIL DATA PREPARED SOLELY FOR ENGINEER'S USE.

UTILITY NOTES:

- EXISTING UTILITY DATA IS PROVIDED FOR INFORMATION ONLY. ALTHOUGH THIS DATA IS SHOWN AS ACCURATELY AS POSSIBLE, THE CONTRACTOR IS CAUTIONED THAT THE DEVELOPER AND THE ENGINEER NEITHER ASSUMES NOR IMPLIES ANY RESPONSIBILITY FOR THE ACCURACY OF THIS DATA.
- CONTRACTOR IS TO VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION, AND SHALL ASSUME RESPONSIBILITY FOR REPAIRS TO EXISTING FACILITIES DAMAGED BY CONTRACTOR'S ACTIVITIES.
- CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND TO ASSURE PROPER DEPTHS ARE ACHIEVED. CONTRACTOR SHALL ADHERE TO THE REQUIREMENTS OF THE CITY OF FORT WORTH AND SHALL COORDINATE WITH THE CITY PRIOR TO CONNECTING TO EXISTING PUBLIC UTILITIES.
- THE CONTRACTOR SHALL, ON ALL UTILITIES, COORDINATE INSPECTION AND TESTING WITH THE APPROPRIATE AUTHORITIES PRIOR TO BACKFILLING TRENCHES.
- CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION SURVEYING FOR THIS PROJECT.
- WHERE PROPOSED WATER LINE CROSSES A PROPOSED SANITARY SEWER LINE, CONTRACTOR SHALL CENTER ONE JOINT OF DUCTILE IRON OR CAST IRON SEWER PIPE ON THE WATER LINE AND PROVIDE A MINIMUM OF 12" SEPARATION BETWEEN THE LINES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING COMPACTION TO 95% STANDARD PROCTOR IN AREAS EXCAVATED AT THE BUILDING FOOTINGS FOR UTILITY SERVICE ENTRIES.
- ALL VALVES, DUCTILE IRON PIPE, CAST IRON PIPE, CAST IRON FITTINGS, AND SPECIALS, SHALL BE POLYETHYLENE WRAPPED.
- CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS, IMPACT AND INSPECTION FEES, ANY CITY FEES AND LICENSES, AND ALL OTHER COSTS INCURRED IN THE INSTALLATION OF UTILITIES.
- ALL FIRE PROTECTION MAINS AND APPURTENANCES SHALL BE APPROVED AND PERMITTED BY THE NCMCID FIRE DEPARTMENT.
- HORIZONTAL BLOCKING FOR WATER LINES HAS BEEN OMITTED FOR CLARITY. BLOCKING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS SHOWN IN THESE PLANS.
- CONTRACTOR SHALL CONDUCT A PRESSURE TEST OF ALL FIRE LINES TO THE SATISFACTION OF THE LOCAL FIRE MARSHALL AND THE DEVELOPERS INSURANCE CARRIER.
- CONTRACTOR IS RESPONSIBLE FOR ADJUSTING ALL VALVE BOXES AND METER BOXES TO FINAL GRADE.
- TRENCH SAFETY: IT SHALL BE THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR TO PROVIDE AND MAINTAIN A VIABLE TRENCH SAFETY SYSTEM AT ALL TIMES DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR IS DIRECTED TO BECOME KNOWLEDGEABLE AND FAMILIAR WITH THE STANDARDS AS SET BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION'S (OSHA) FOR TRENCH SAFETY THAT WILL BE IN EFFECT DURING THE PERIOD OF CONSTRUCTION OF THE PROJECT.
- RESTRAINER GLANDS MUST BE INSTALLED ON ALL BENDS AND FIRE HYDRANT LEADS OVER 20' IN LENGTH.
- WATER LINE LOCATIONS AND SEPARATIONS ARE SHOWN FOR GRAPHICAL PURPOSES. FOR EASE OF CONSTRUCTION WATER LINES CAN BE INSTALLED WITH AS LITTLE AS 1' SEPARATION WITH PROPER EMBEDMENT.

WATER AND SANITARY SEWER NOTES:

- THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES WHERE PROPOSED UTILITIES ARE BEING CONNECTED, PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF A CONFLICT IS DISCOVERED.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN, COORDINATING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITY SERVICES ENTERING THE BUILDING AND/OR CROSSING OTHER UTILITIES.
- CONTRACTOR TO SEQUENCE CONSTRUCTION AS TO AVOID INTERRUPTION OF WATER AND SANITARY SEWER SERVICE TO SURROUNDING AREAS.
- EXISTING AND/OR PROPOSED WATER MAINS SHALL BE LOWERED BELOW OR ABOVE PROPOSED SANITARY AND STORM SEWER LINES TO MAINTAIN A MINIMUM OF 1.0 FEET OF VERTICAL SEPARATION OR AS SPECIFIED IN THE CITY OF JAL SPECIFICATIONS.
- EXISTING MANHOLE TOPS, VALVE BOXES, FIRE HYDRANTS AND ALL OTHER UTILITY APPURTENANCES SHALL BE ADJUSTED AS REQUIRED TO MATCH PROPOSED GRADES AS SHOWN ON GRADING PLAN.
- CONTRACTOR SHALL CONTACT NECESSARY FRANCHISE UTILITY COMPANIES PRIOR TO CONSTRUCTION, IN ORDER TO LOCATE AND/OR DISCONNECT SERVICES.
- FOR EACH SEWER AND WATER CROSSING, CENTER ONE JOINT OF SEWER PIPE ON THE EXISTING OR PROPOSED WATER MAIN.
- FIRE HYDRANT SPRINKLER CONNECTIONS SHALL BE LOCATED ON THE BUILDING NOT LESS THAN 18" OR MORE THAN 48" ABOVE GRADE.
- ALL VALVES AND FITTINGS SHALL HAVE MEGALUG ANCHORS OR APPROVED EQUAL.
- THE CONTRACTOR SHALL, ON ALL UTILITIES, COORDINATE INSPECTION AND TESTING WITH THE PROPER AUTHORITIES PRIOR TO BACKFILLING TRENCHES.
- ANY EXISTING THRUST BLOCKS OR RESTRAINTS SHALL BE REMOVED BY THE UTILITY CONTRACTOR TO ALLOW HIS WORK TO PROCEED. THE REPLACEMENT, WHERE REQUIRED, SHALL BE AT THE CONTRACTORS EXPENSE.
- CONTRACTOR SHALL SUPPLY AND INSTALL ANY ADDITIONAL BENDS WITH THRUST BLOCKS AND OTHER APPURTENANCES REQUIRED TO ASSURE PROPER INSTALLATION OF WATER MAINS AND LATERALS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR A CLOSED CIRCUIT SURVEY OF THE COMPLETED SANITARY SEWER PIPE INSTALLATION. EXCLUSIVE OF SERVICES, ALL IMPERFECTIONS IN THE INSTALLED FACILITY REVEALED BY THE TV SURVEY SHALL BE REMEDIED BY THE CONTRACTOR PRIOR TO ACCEPTANCE OF THE PROJECT AS COMPLETE.
- ALL WATER AND SEWER WORK SHALL CONFORM WITH NEW MEXICO CONSTRUCTION INDUSTRIES & MANUFACTURED HOUSING DIVISION PLUMBING CODES, STANDARDS AND SPECIFICATIONS.
- ALL FITTINGS SHALL BE MECHANICAL JOINTS UNLESS OTHERWISE REQUIRED AND APPROVED EQUAL.
- ALL WATER PIPE 12" AND SMALLER SHALL BE AWWA C-900 DR-14 CLASS 200.
- TOP OF WATER LINES SHALL BE INSTALLED WITH A MINIMUM COVER OF 4' (48") UNLESS OTHERWISE NOTED ON PLANS.
- WHEN NEW POTABLE WATER DISTRIBUTION LINES ARE CONSTRUCTED, THEY SHALL BE INSTALLED NO CLOSER THAN NINE FEET IN ALL DIRECTIONS TO WASTEWATER COLLECTION FACILITIES. ALL SEPARATION DISTANCES SHALL BE MEASURED FROM THE OUTSIDE SURFACE OF EACH OF THE RESPECTIVE PIECES.
- FIRE HYDRANTS SHALL NOT BE INSTALLED WITHIN NINE FEET VERTICALLY OR HORIZONTALLY OF ANY WASTEWATER MAIN, WASTEWATER LATERAL, OR WASTEWATER SERVICE LINE REGARDLESS OF CONSTRUCTION.
- SANITARY SEWER LINES SHALL BE POLYVINYL CHLORIDE PVC SDR-35 FOR DEPTHS OF BURIAL UP TO 11.5'.

GRADING NOTES:

- THE PROPOSED GRADES INDICATED ON THE GRADING PLAN ARE FINISHED GRADES AND CONTOURS ARE SHOWN AT ONE FOOT INTERVALS. SPOT ELEVATIONS SHOWN IN PAVED AREAS ARE TOP OF PAVEMENT UNLESS NOTED OTHERWISE.
- WHERE SURFACE DRAINAGE CHANNELS ARE TEMPORARILY DISTURBED OR BLOCKED DURING CONSTRUCTION, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR GRADES AND CROSS SECTION AFTER THE CONSTRUCTION IS COMPLETED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE CLEANLINESS OF THE HAUL ROADS AND PUBLIC ROADWAYS.
- THE CONTRACTOR SHALL MAINTAIN EXISTING AND/OR ADD ANY AND ALL EROSION PROTECTION CONTROL DEVICES NECESSARY.
- THE ELEVATIONS OF THE LANDSCAPED BERMS SHALL REFLECT THE APPROVED LANDSCAPING SITE PLAN AND MUST BE FIELD APPROVED BY HILLWOOD PRIOR TO FINAL PLACEMENT OF TOPSOIL AND/OR INSTALLATION OF PLANT MATERIALS.
- CONTRACTOR SHALL FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN) WITHIN SCOPE OF CONSTRUCTION. IF ANY EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THEM AT HIS OWN EXPENSE.
- CONTRACTOR TO ENSURE POSITIVE DRAINAGE FROM THE PROPOSED BUILDINGS AND NO PONDING IN PAVED AREAS. CONTRACTOR ADJUSTMENTS TO SPOT GRADES TO MAINTAIN POSITIVE DRAINAGE IS ALLOWED WITH THE PRIOR APPROVAL OF THE ENGINEER. CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO PAVING IF ANY AREAS OF POOR DRAINAGE ARE ENCOUNTERED.
- THE CONTRACTOR SHALL PROTECT ALL MANHOLE COVERS, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, POWER POLES, GUY WIRES, AND TELEPHONE BOXES WHICH ARE TO REMAIN IN PLACE AND UNDISTURBED DURING CONSTRUCTION.
- ALL EXISTING CONCRETE PAVING, CHANNEL IMPROVEMENTS, SIDEWALK, STRUCTURES AND CURB DEMOLITION SHALL BE REMOVED IN THEIR ENTIRETY AND DISPOSED OF BY THE CONTRACTOR, OFFSITE UNLESS OTHERWISE DIRECTED BY THE OWNER OR ENGINEER.
- BUILDING PAD PREPARATION AND SITE PREPARATION SHALL BE CONSISTENT WITH THE GEOTECHNICAL REPORT BY BEYOND ENGINEERING & TESTING, DATED JANUARY 22, 2019. (BEYOND ENGINEERING & TESTING PROJECT NO. GT1811012)
- GRADING CONTRACTOR TO COORDINATE WITH THE FRANCHISE UTILITY COMPANIES FOR ANY REQUIRED UTILITY ADJUSTMENTS AND/OR RELOCATIONS.
- REFERENCE STRUCTURAL PLANS AND SPECIFICATIONS AND GEOTECHNICAL REPORT FOR ALL BUILDING PAD LAYOUT AND SOIL PREPARATION/COMPACTION.
- GRADING CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OFF-SITE OF ALL EXCAVATED AND CLEARED MATERIAL WHICH SOILS LAB DECLARES UNSUITABLE FOR USE ON-SITE.
- REFERENCE EROSION CONTROL PLAN FOR ADDITIONAL EROSION CONTROL GENERAL NOTES AND SPECIFICATIONS.
- SIDEWALKS AND ACCESSIBLE ROUTES SHALL HAVE A SLOPE NO GREATER THAN 5% AND A CROSS FALL NO GREATER THAN 2% UNLESS NOTED OTHERWISE.

SITE GRADING:

- ONSITE SOILS MAY BE USED AS FILL FOR GRADING. AREAS UNDER FILL OR PAVEMENT SHOULD BE RIPPED TO A DEPTH OF 6 INCHES AND COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY UNIT WEIGHT AS DETERMINED BY ASTM D 698 STANDARD PROCTOR TEST. MOISTURE CONTENTS SHOULD BE AT LEAST +2 POINTS ABOVE OPTIMUM. ONSITE SOILS USED AS FILL SHALL BE CLEANED OF ALL CONSTRUCTION AND CONCRETE DEBRIS, AND ROCK FRAGMENTS OVER 6 INCHES IN DIAMETER, PLACED IN MAXIMUM 9 INCH LOOSE LIFTS.
- IMPORTED SELECT FILL WILL BE PLACED IN MAXIMUM 9 INCH LIFTS OR LESS AND BE COMPACTED TO A MINIMUM DRY DENSITY OF 95% OF THE MAXIMUM DRY DENSITY DETERMINED BY ASTM D 698. MOISTURE CONTENT OF THE COMPACTED SOILS SHOULD BE MAINTAINED BETWEEN -2 AND +2 PERCENT DETERMINED BY ASTM D 698.

Jacobs

777 Main Street
Fort Worth, TX 76102

NICOLE HAYES

NEW MEXICO

25585

PROFESSIONAL ENGINEER

2019-10-02

AMITY

LODGES

CRIOLLO LODGE

1218 KIZZER LANE

JAL, NEW MEXICO 88252

PROJECT NUMBER:
WFPXP7601
DATE ISSUED:
10-3-19

ISSUES:	
A: FOR REVIEW ONLY	10/3/19
B: INTERIM SUBMITTAL	5/01/2019
C: 95% PROGRESS SET	6/21/2019
D: FOR CONSTRUCTION	10/03/2019

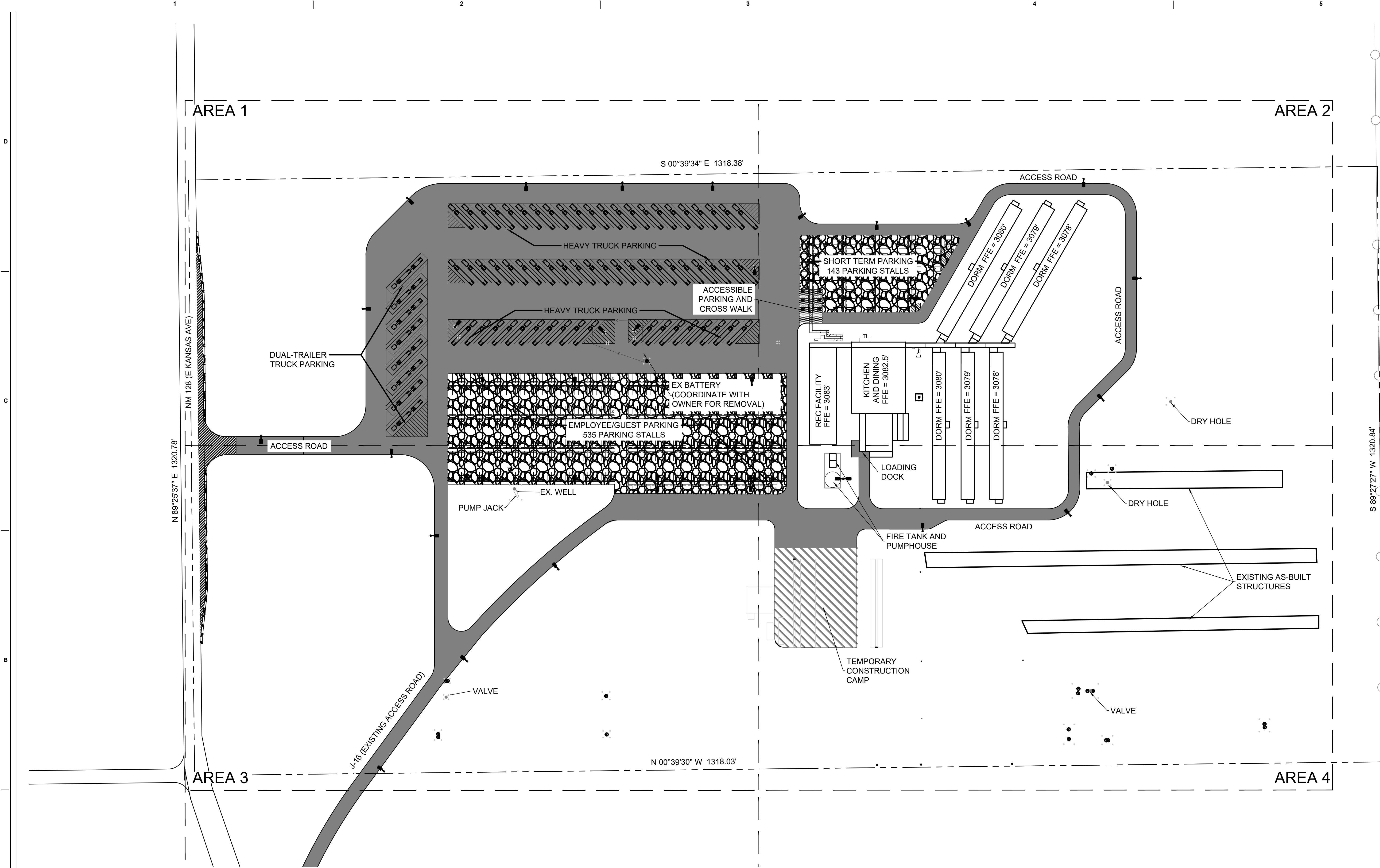
REVISIONS:

SHEET CONTENTS:
GENERAL NOTES

SHEET NUMBER:

C-002

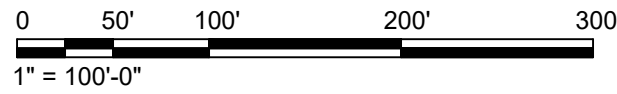
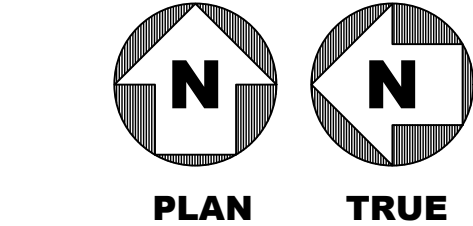
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- NOTES:
1. ALL RADII ARE 20' (TYP.) UNLESS OTHERWISE NOTED.
 2. REFER TO ARCHITECTURAL PLANS FOR BUILDING, CANOPY AND OTHER STRUCTURE DETAILS.
 3. CALICHE PAVEMENT WILL BE STRIPED AS SHOWN. EMPLOYEE/GUEST PARKING WILL NOT BE STRIPED, BUT WILL HAVE WHEEL STOPS AS SHOWN.
 4. REFER TO ARCHITECTURE FOR BUILDING DIMENSIONS.
 5. REFER TO ARCHITECTURE FOR STAIRS.

LEGEND	
	8" CALICHE BASE
	8" GRAVEL OVER 6" COMPACTED BASE
	4" HMAc OVER 6" COMPACTED BASE
	6" CONCRETE OVER 8" COMPACTED BASE
	LIGHT POST
	MOUNTED LIGHT
	6" DIA. BOLLARD
	EXISTING WELL/OBJECT
	PROPERTY LINE

PARKING SUMMARY TABLE	
PERSONAL VEHICLES:	672 SPACES
ACCESSIBLE PARKING:	6 SPACES
TRUCKS (WB-67):	62 SPACES
DUAL-TRAILER (WB-33D):	8 SPACES



Jacobs

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NICOLE HAYES
NEW MEXICO
25585
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10/3/2019

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LODGES

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1218 KIZZER LANE

JAL, NEW MEXICO 88252

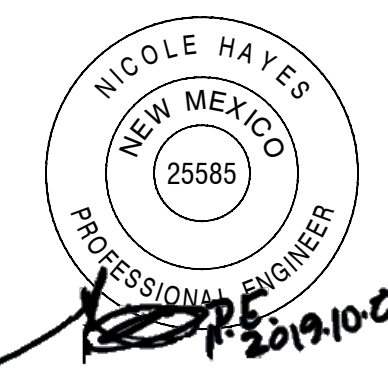
PROJECT NUMBER:	WFXP7601
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D: FOR CONSTRUCTION	10/03/2019

REVISIONS:

SHEET CONTENTS:
OVERALL SITE PLAN

SHEET NUMBER:
CS100

XXX



CRIOLLO LODGE
1218 KIZZER LANE
JAL., NEW MEXICO 88252

PROJECT NUMBER:
WFXP7601

DATE ISSUED:
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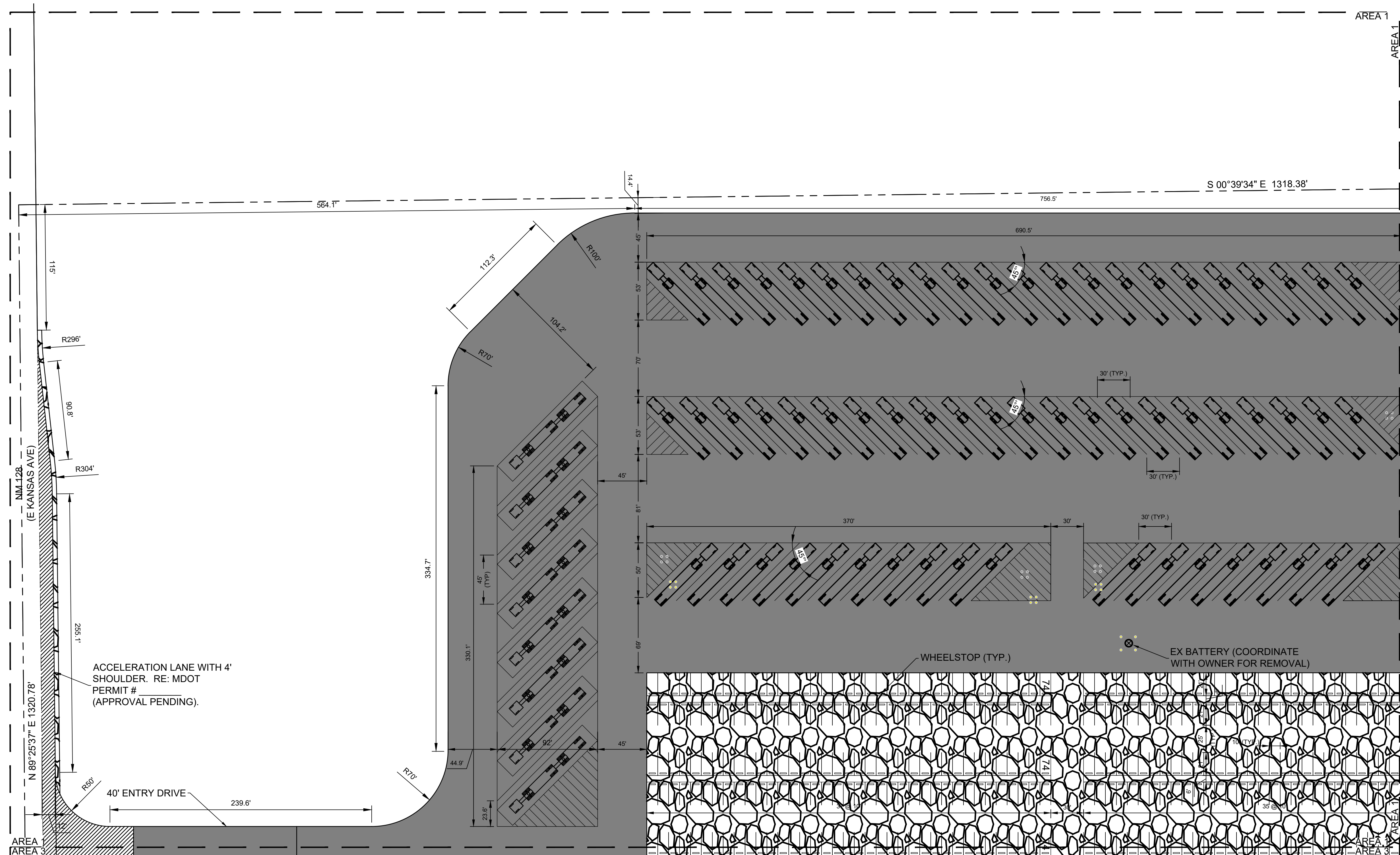
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C: 95% PROGRESS SET	6/21/2019
D: FOR CONSTRUCTION	10/03/2019

REVISIONS:

SHEET CONTENTS:
SITE PLAN - AREA 1

SHEET NUMBER:











CS101

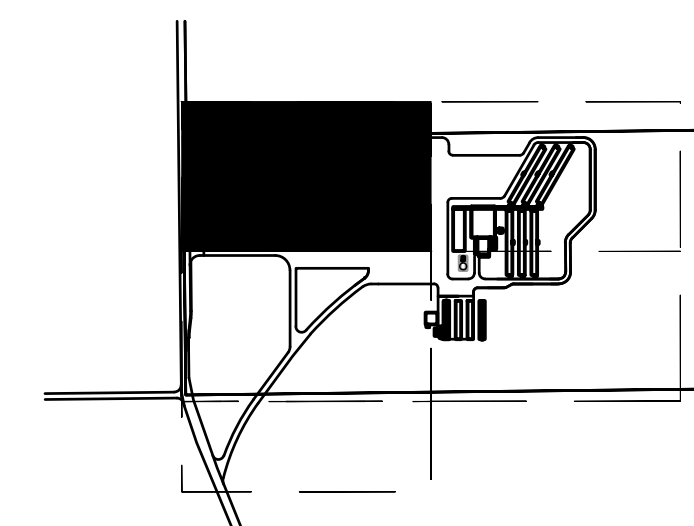


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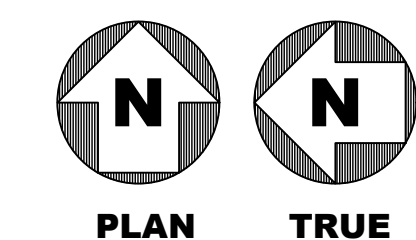
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4. REFER TO ARCHITECTURE FOR BUILDING DIMENSIONS.
5. REFER TO ARCHITECTURE FOR STAIRS.

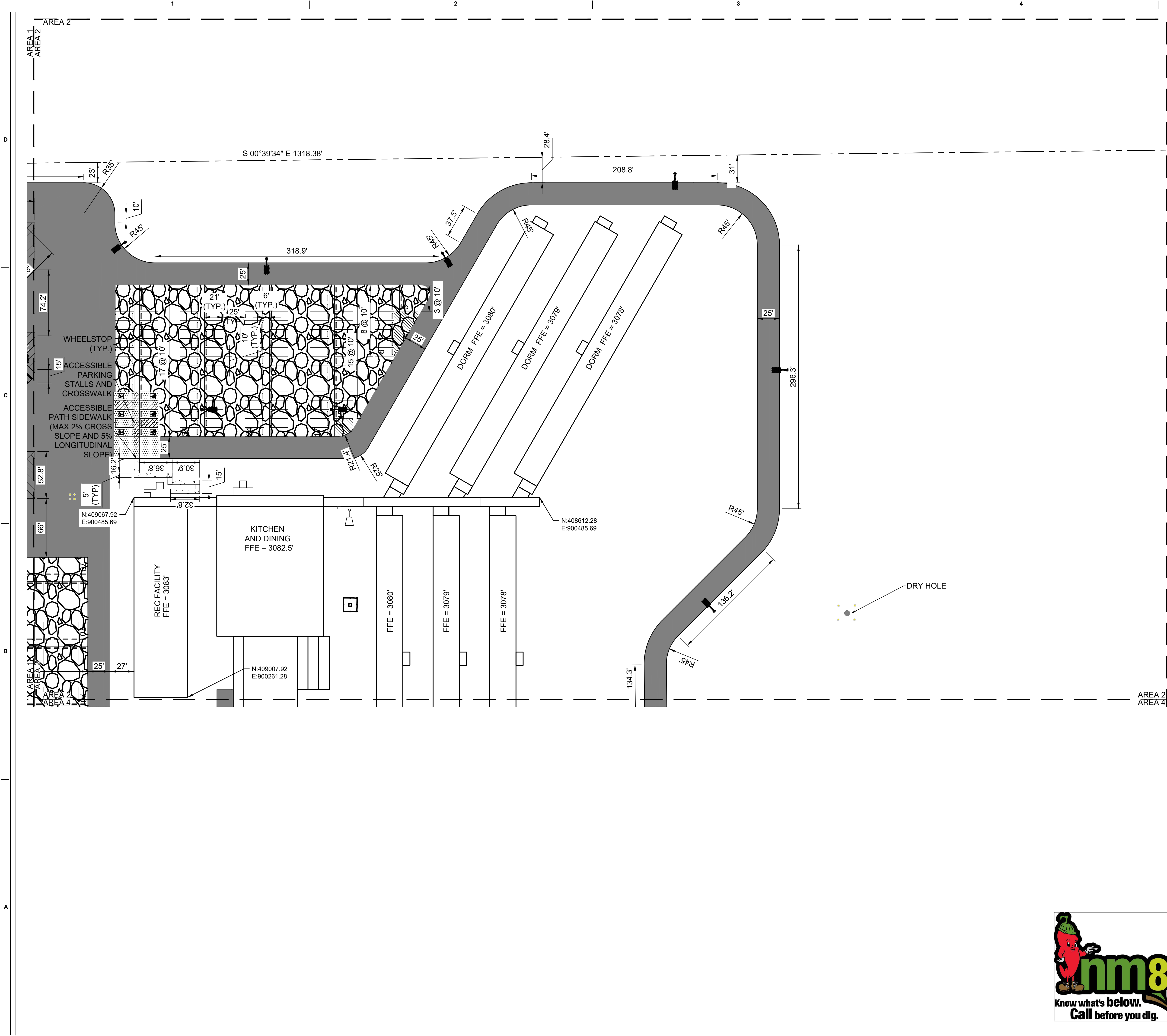
LEGEND

	8" CALICHE BASE
	8" GRAVEL OVER 6" COMPACTED BASE
	4" HMAC OVER 6" COMPACTED BASE
	6" CONCRETE OVER 8" COMPACTED BASE
	ACCESSIBLE PARKING STRIPING
	LIGHT POST
	MOUNTED LIGHT
	6" DIA. BOLLARD
	EXISTING WELL/OBJECT
	PROPERTY BOUNDARY



KEY MAP

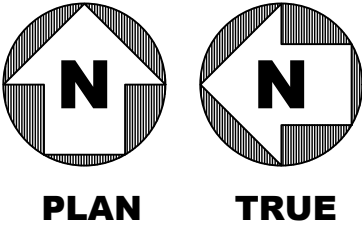
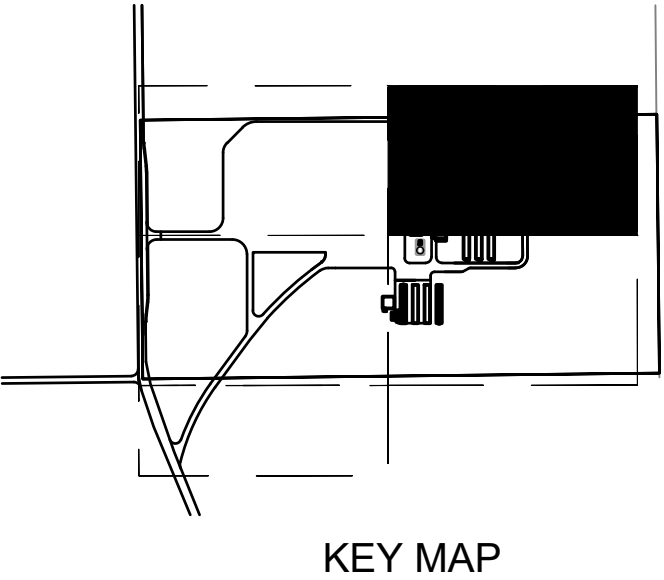




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LEGEND

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- 8" GRAVEL OVER 6" COMPACTED BASE
- 4" HMAC OVER 6" COMPACTED BASE
- 6" CONCRETE OVER 8" COMPACTED BASE
- ACCESSIBLE PARKING STRIPING
- LIGHT POST
- MOUNTED LIGHT
- 6" DIA. BOLLARD
- EXISTING WELL/OBJECT
- PROPERTY BOUNDARY



Jacobs

777 Main Street
Fort Worth, TX 76102

CRIOLLO LODGE
1218 KIZZER LANE
JAL, NEW MEXICO 88252

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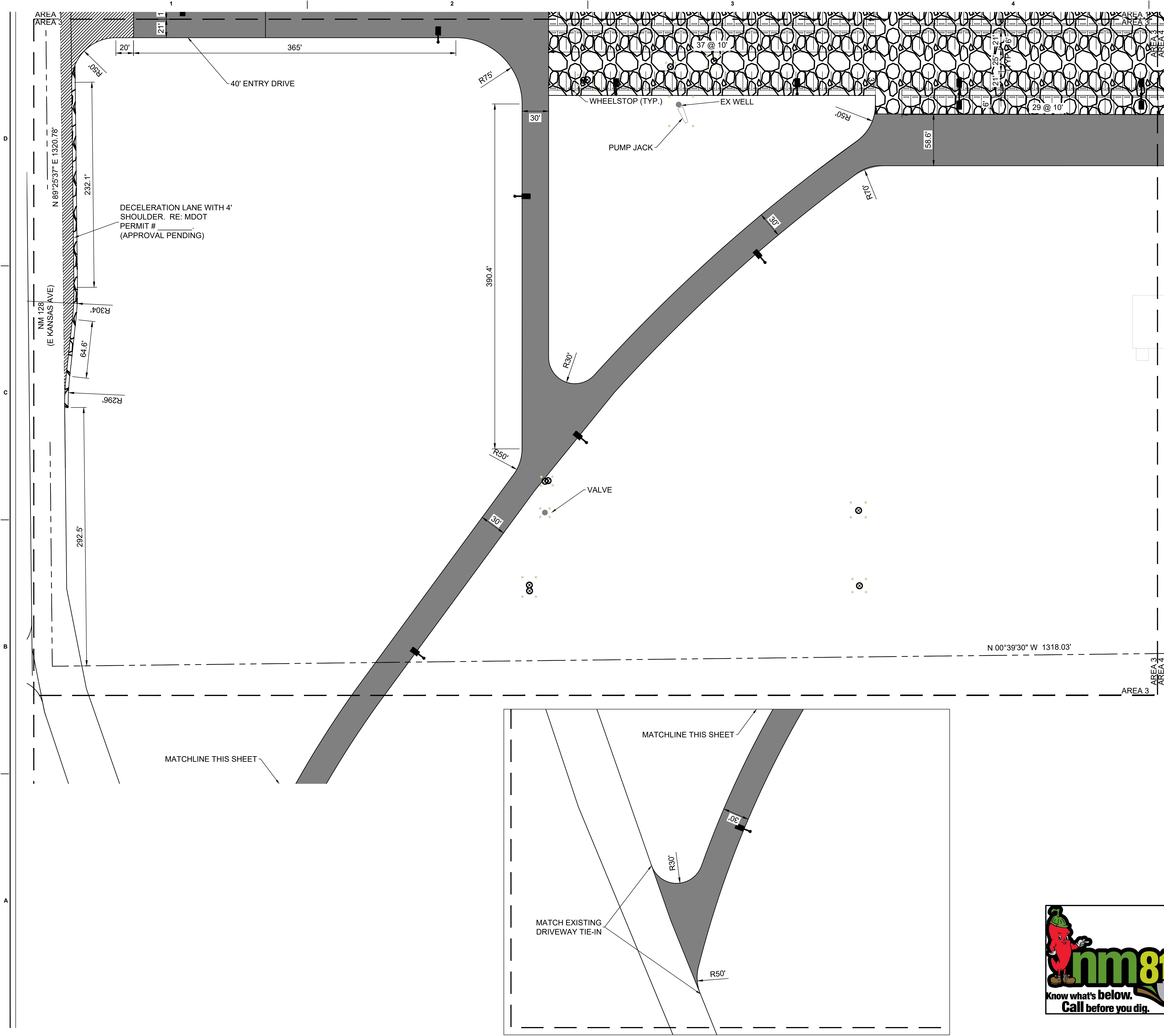
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REVISIONS:

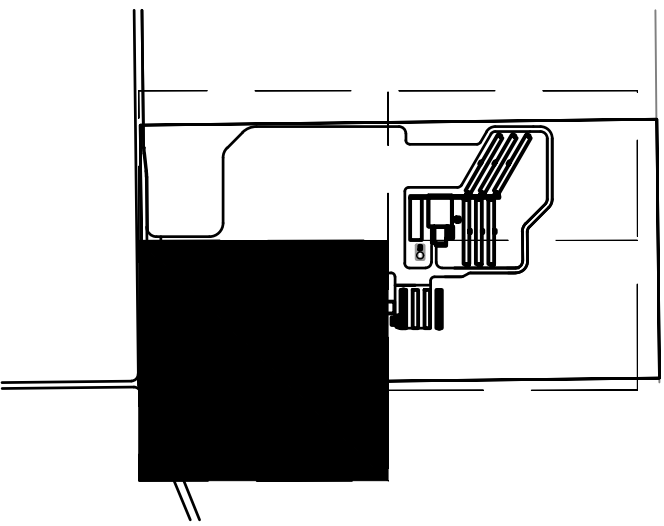
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SITE PLAN - AREA 2

SHEET NUMBER:
CS102

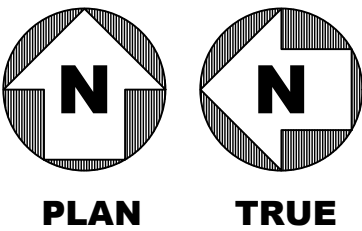


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LEGEND	
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	8" GRAVEL OVER 6" COMPACTED BASE
	4" HMA OVER 6" COMPACTED BASE
	6" CONCRETE OVER 8" COMPACTED BASE
	ACCESSIBLE PARKING STRIPING
	LIGHT POST
	MOUNTED LIGHT
	6" DIA. BOLLARD
	EXISTING WELL/OBJECT
	PROPERTY BOUNDARY



KEY MAP



PLAN

TRUE



Jacobs

777 Main Street
Fort Worth, TX 76102

NICOLE HAYES
NEW MEXICO
25585
PROFESSIONAL ENGINEER

AMITY
LODGES

CRIOLLO LODGE

1218 KIZZER LANE

JAL, NEW MEXICO 88252

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REVISIONS:

SHEET CONTENTS:
SITE PLAN - AREA 3

SHEET NUMBER:

CS103

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JAL, NEW MEXICO 88252

10-3-19

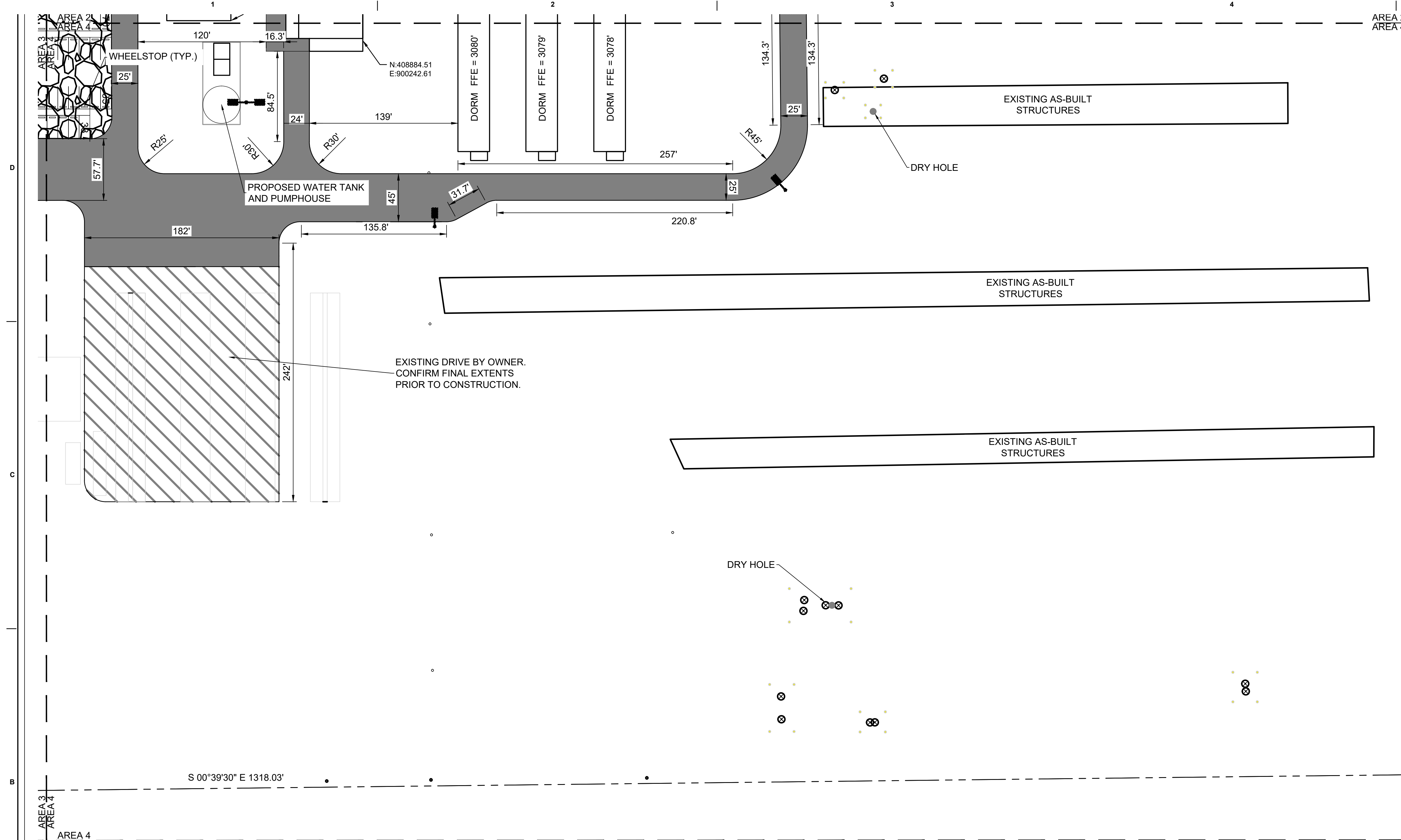
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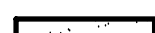






SITE PLAN - AREA 4

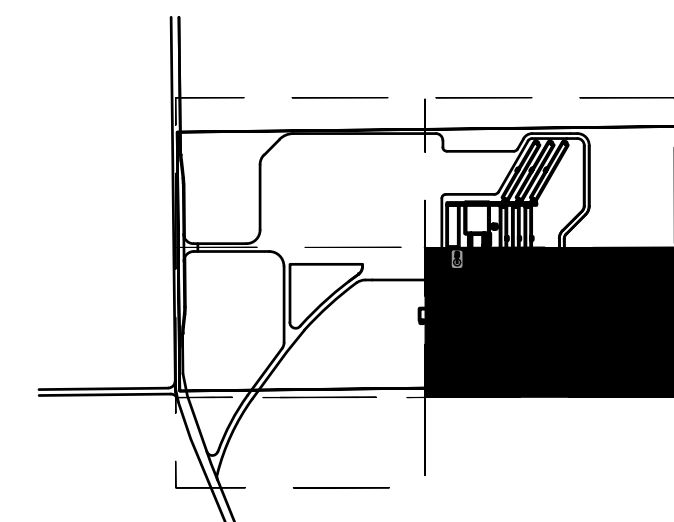
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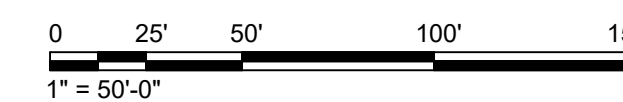
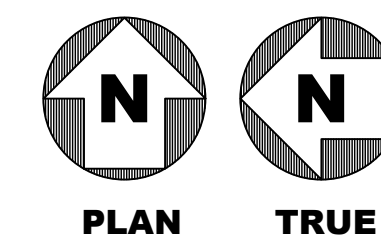


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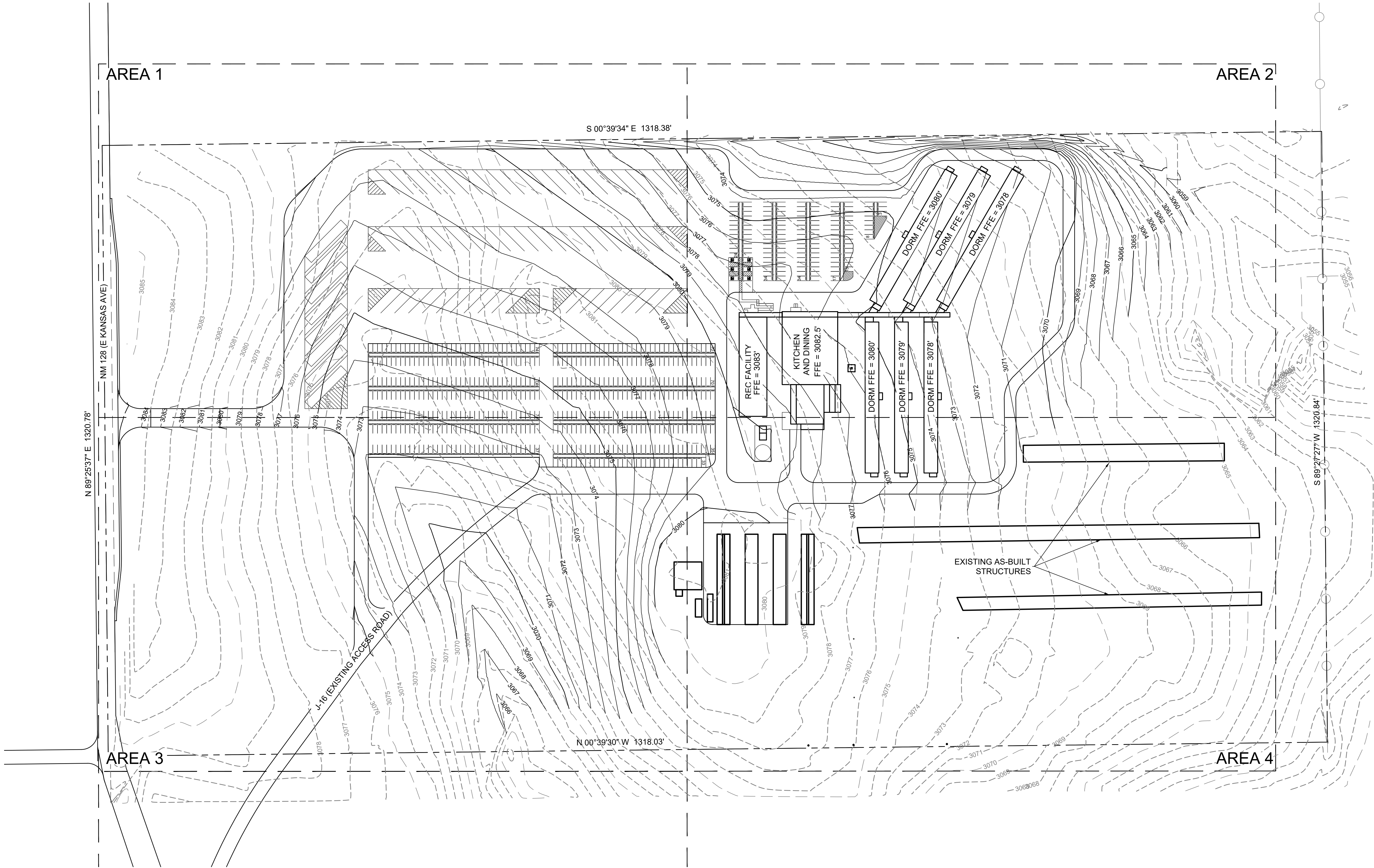
LEGEND	
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	8" GRAVEL OVER 6" COMPACTED BASE
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	6" CONCRETE OVER 8" COMPACTED BASE
	ACCESSIBLE PARKING STRIPING
	LIGHT POST
	MOUNTED LIGHT
	6" DIA. BOLLARD
	EXISTING WELL/OBJECT
	PROPERTY BOUNDARY



KEY MAP



D
C
B
A

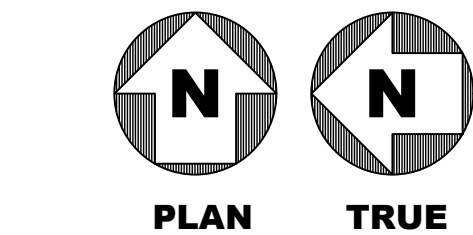


NOTE:
1. THE PROVIDED TOPOGRAPHIC INFORMATION WAS ASSUMED TO BE THE CURRENT EXISTING TOPOGRAPHY OF THE SITE AND WAS GRADED ACCORDINGLY.

LEGEND			
—290—	MAJOR CONTOUR		
—293—	MINOR CONTOUR		
- - -290 - - -	EXISTING MAJOR CONTOUR		
- - -293 - - -	EXISTING MINOR CONTOUR		

EARTHWORK
NET VOLUME: 31,675 CU YD (CUT)

FLOODPLAIN INFORMATION
FEMA FIRM MAP NO.: 35025C2110D
DATED: 12/16/2008
ZONE: D
SITE IS IN AN AREA OF UNDETERMINED FLOOD HAZARD



777 Main Street
Fort Worth, TX 76102

10/3/2019

AMITY
LODGES

CRIOLLO LODGE
1218 KIZZER LANE
JAL, NEW MEXICO 88252

PROJECT NUMBER:
WFXP7601
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10-3-19

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REVISIONS:

SHEET CONTENTS:
OVERALL GRADING PLAN


SHEET NUMBER:
CG100


XXX

Jacobs

777 Main Street
Fort Worth, TX 76102

NICOLE HAYES
NEW MEXICO
25585
PROFESSIONAL ENGINEER


P 20191002


AMITY
LODGES

CRIOLLO LODGE

1218 KIZZER LANE

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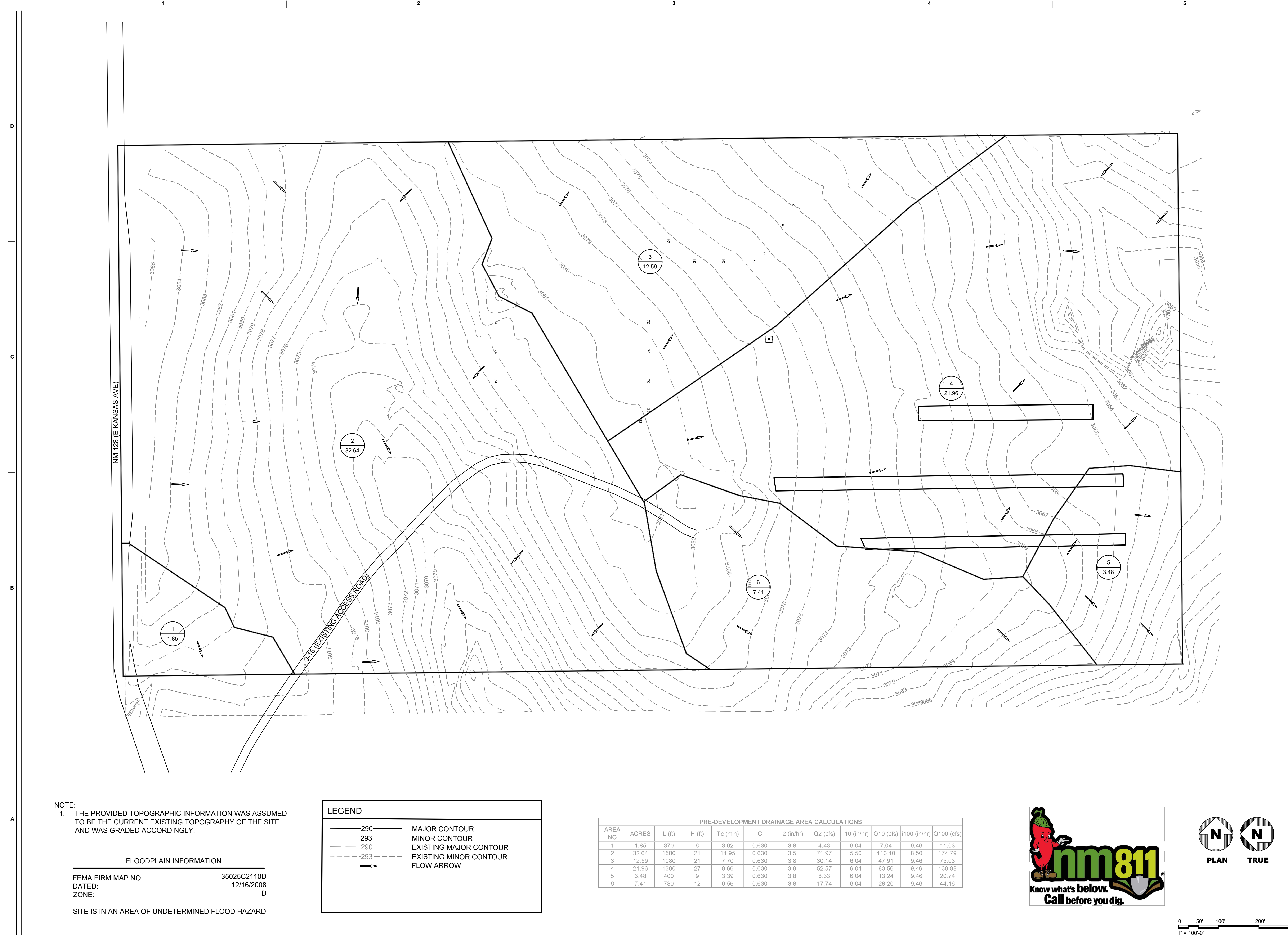
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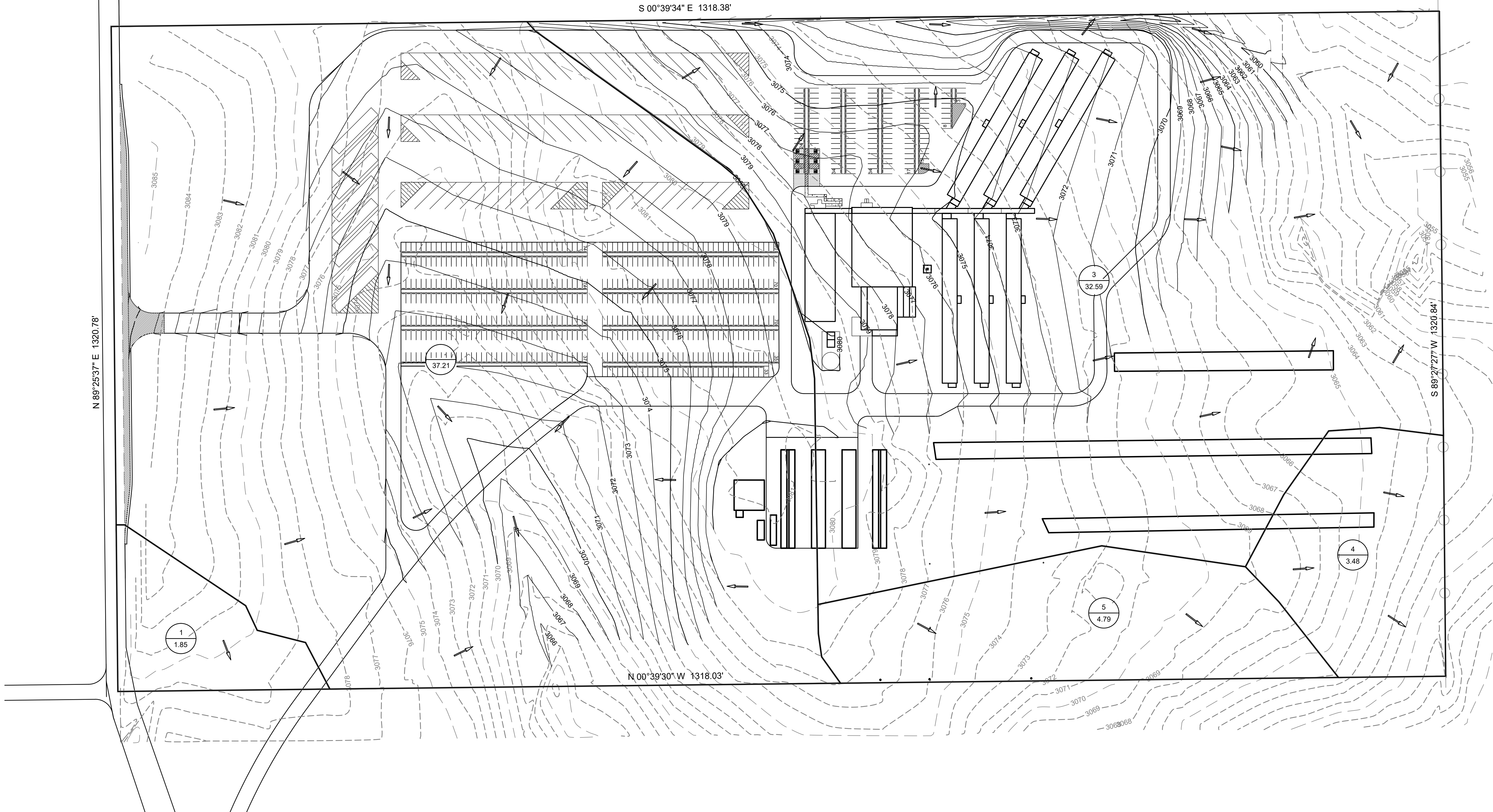
EXISTING DRAINAGE AREA
MAP

SHEET NUMBER:

CG200

XXX



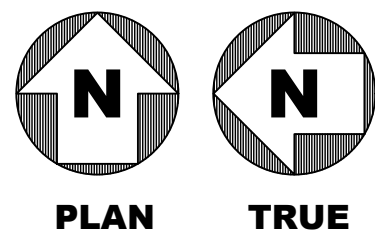


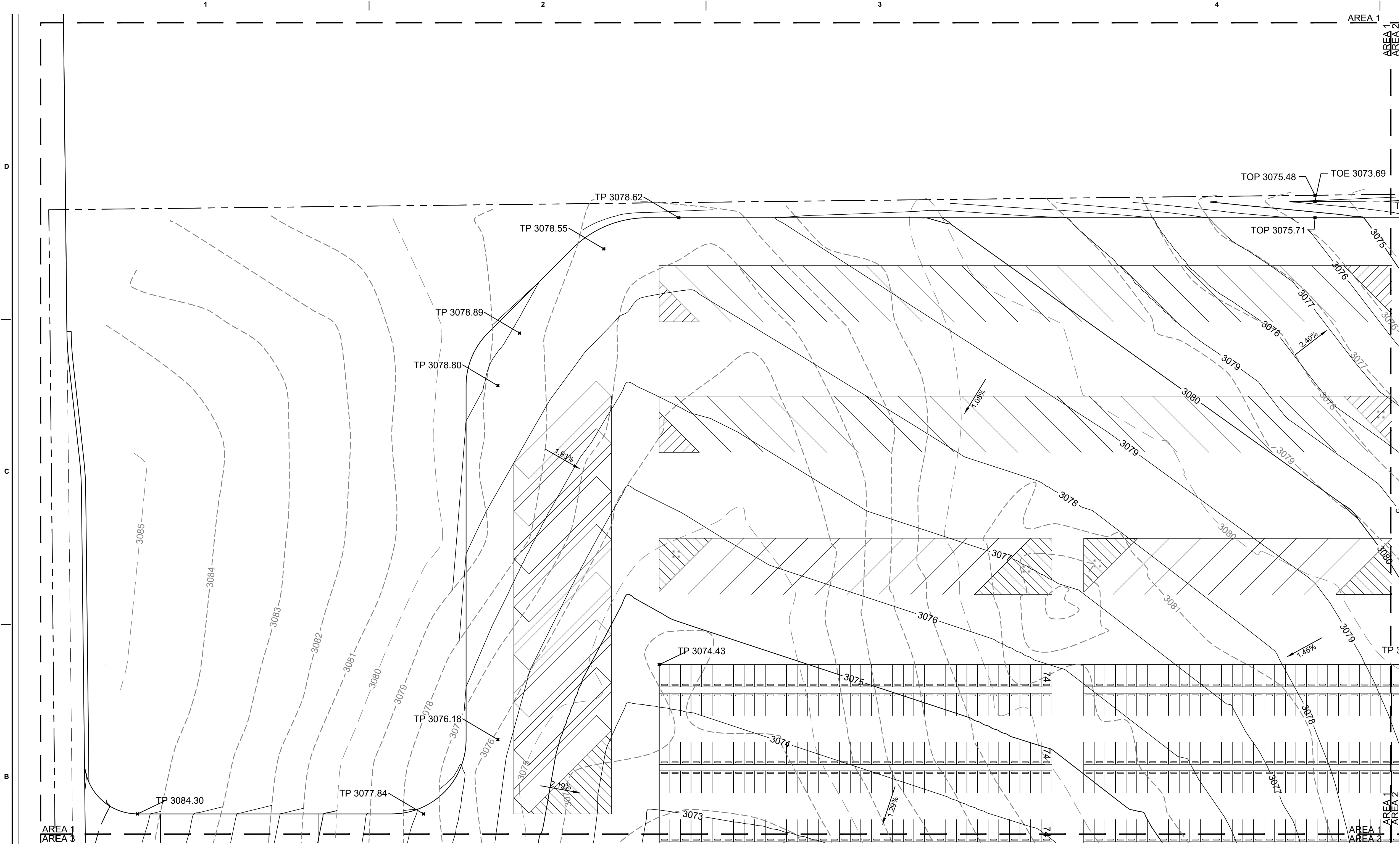
NOTE:
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AND WAS GRADED ACCORDINGLY.

FLOODPLAIN INFORMATION
FEMA FIRM MAP NO.: 35025C2110D
DATED: 12/16/2008
ZONE: D
SITE IS IN AN AREA OF UNDETERMINED FLOOD HAZARD

LEGEND	
—290—	MAJOR CONTOUR
—293—	MINOR CONTOUR
- - -290 - - -	EXISTING MAJOR CONTOUR
- - -293 - - -	EXISTING MINOR CONTOUR
→	FLOW ARROW

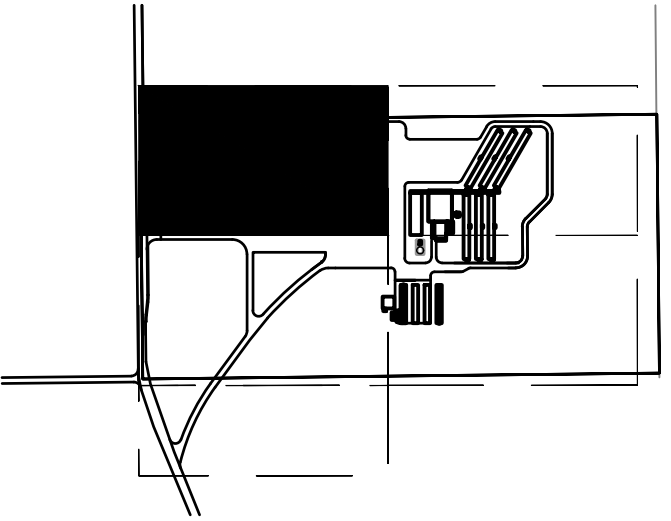
POST-DEVELOPMENT DRAINAGE AREA CALCULATIONS											
AREA NO	ACRES	L (ft)	H (ft)	Tc (min)	C	I2 (in/hr)	Q2 (cfs)	I10 (in/hr)	Q10 (cfs)	I100 (in/hr)	Q100 (cfs)
1	1.85	370	6	3.62	0.550	3.8	3.87	6.04	6.15	9.46	9.63
2	37.21	1430	16	11.83	0.550	3.5	71.63	5.50	112.56	8.50	173.96
3	32.59	1790	25	12.91	0.550	3.35	60.05	5.35	95.90	8.30	148.77
4	3.48	400	9	3.39	0.550	3.8	7.27	6.04	11.56	9.46	18.11
5	4.79	360	12	2.69	0.550	3.8	10.01	6.04	15.91	9.46	24.92



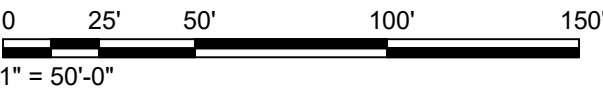
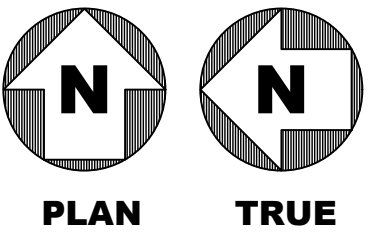


- NOTES:
1. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS.
 2. CONTRACTORS SHALL PROTECT ALL EQUIPMENT PADS, GUY WIRES, AND POWER POLES.

LEGEND	
— 290 —	MAJOR CONTOUR
— 293 —	MINOR CONTOUR
- - - 290 - - -	EXISTING MAJOR CONTOUR
- - - 293 - - -	EXISTING MINOR CONTOUR
- - - 290 - - -	SWALE CENTERLINE
TP 3069.67	PROPOSED TOP OF PAVEMENT ELEVATION
EG 3069.67	EXISTING GRADE ELEVATION
TOP 3069.67	PROPOSED TOP OF SWALE
TOE 3069.67	PROPOSED TOE OF SWALE



KEY MAP



Jacobs
777 Main Street
Fort Worth, TX 76102

NICOLE HAYES
NEW MEXICO
25585
PROFESSIONAL ENGINEER
10/3/2019

AMITY
LODGES

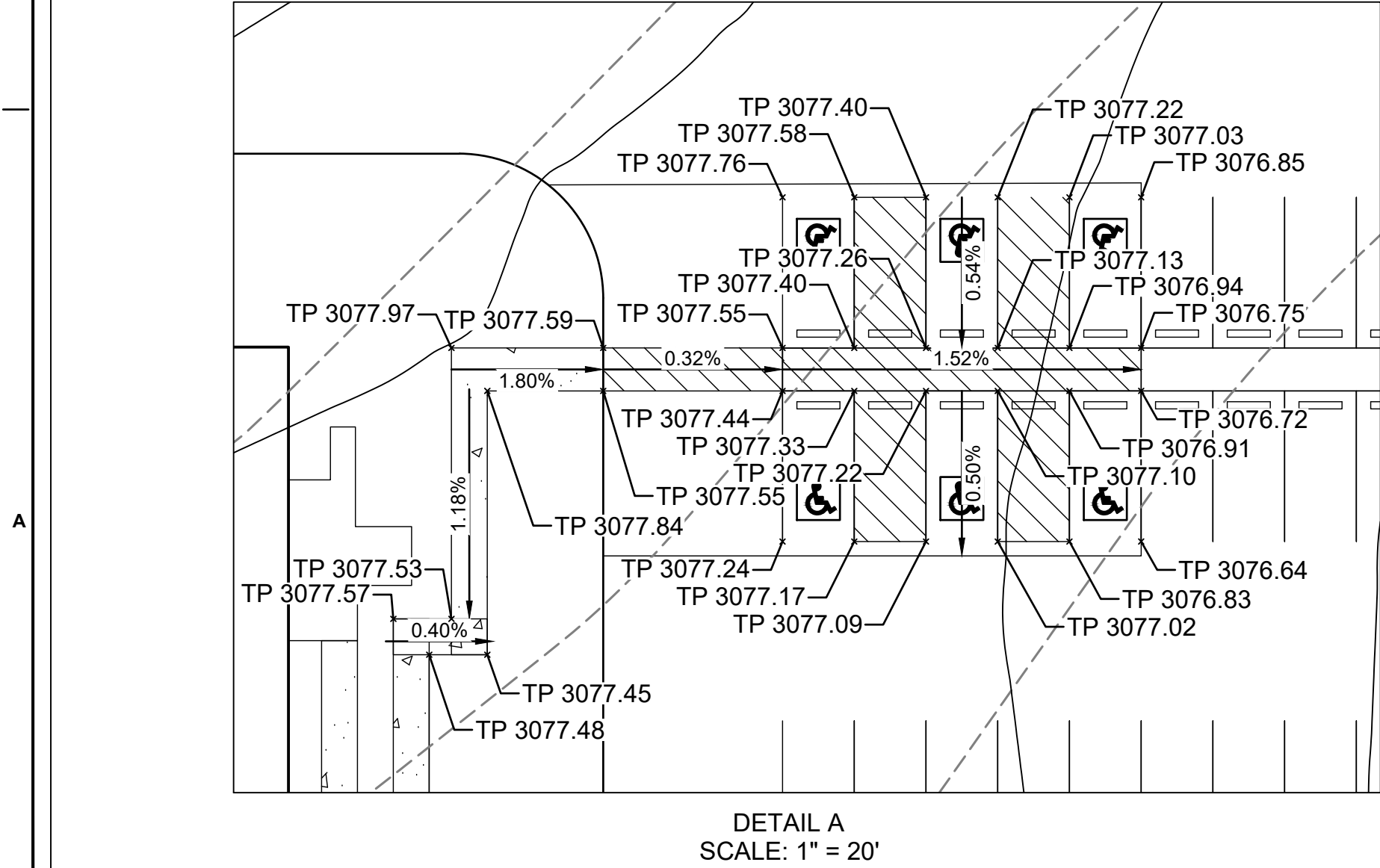
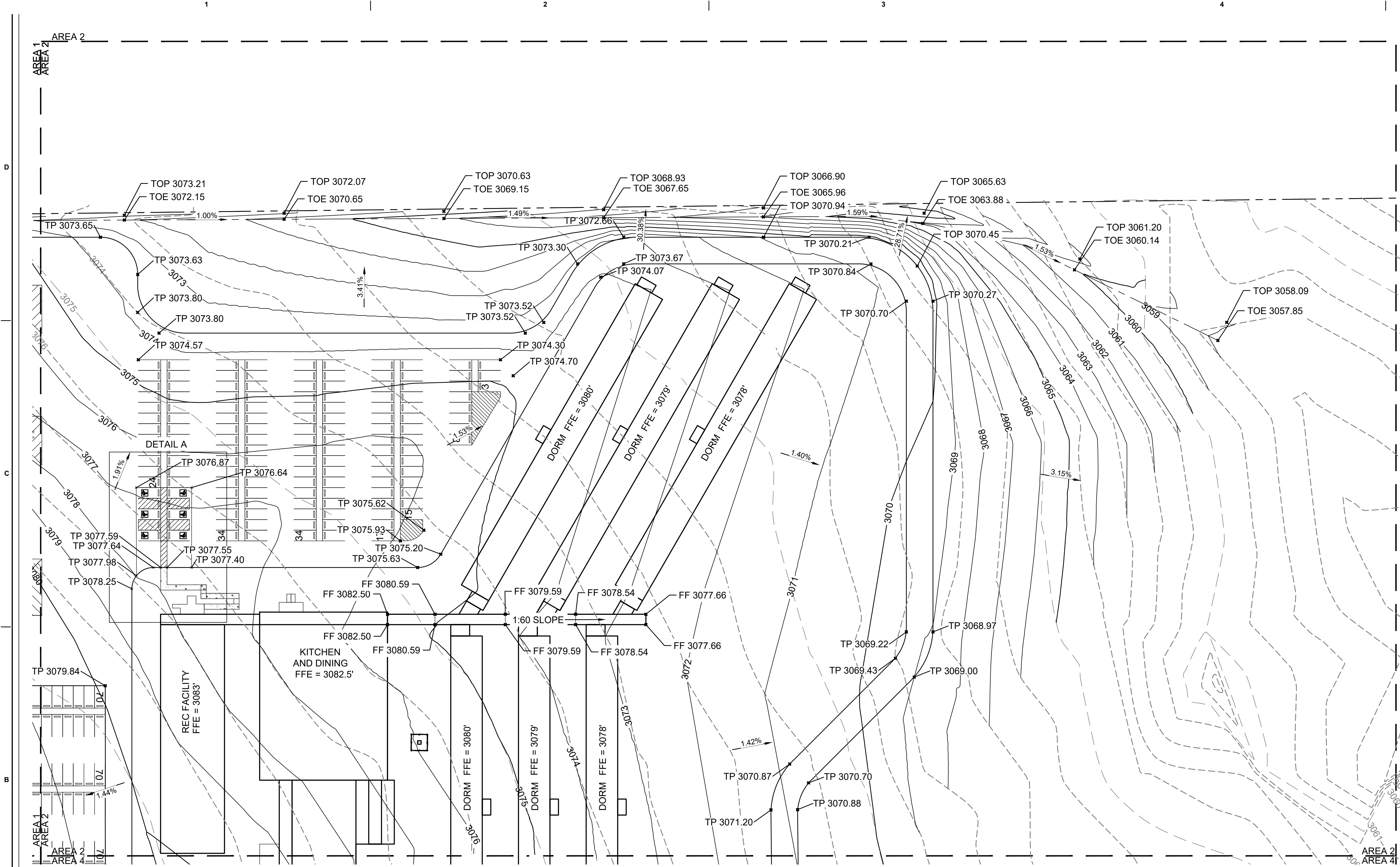
CRIOLLO LODGE
1218 KIZZER LANE
JAL, NEW MEXICO 88252

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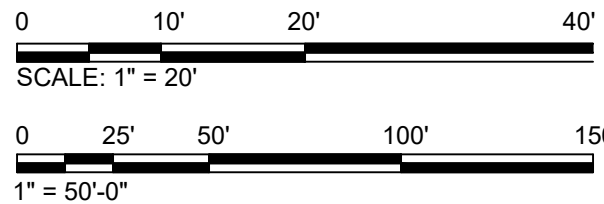
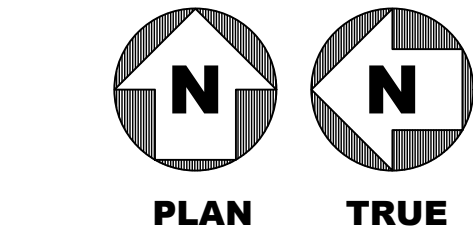
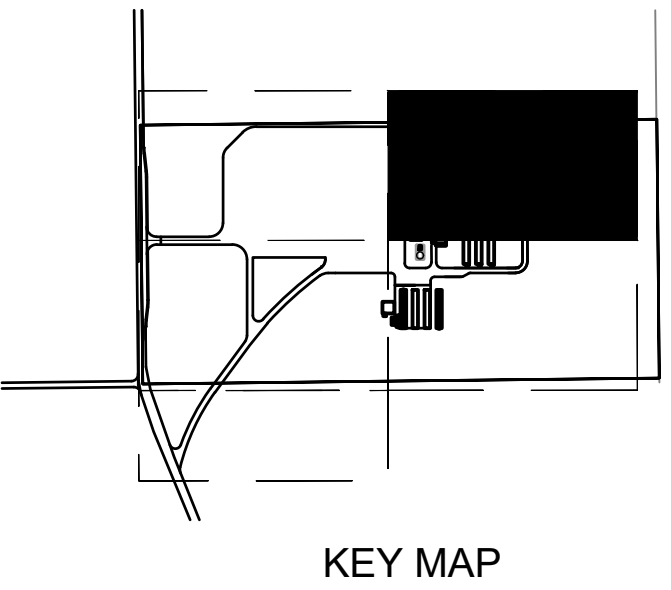
SHEET CONTENTS:
GRADING PLAN - AREA 1

SHEET NUMBER:
CG101



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 2. CONTRACTORS SHALL PROTECT ALL EQUIPMENT PADS, GUY WIRES, AND POWER POLES.
 3. REFER TO ARCHITECTURE FOR STAIRS.
 4. REFERENCE ARCHITECTURE FOR BUILDING DETAILS AND SECTIONS.

LEGEND	
	290 MAJOR CONTOUR
	293 MINOR CONTOUR
	290 EXISTING MAJOR CONTOUR
	293 EXISTING MINOR CONTOUR
	293 SWALE CENTERLINE
	TP 3069.67 PROPOSED TOP OF PAVEMENT ELEVATION
	EG 3069.67 EXISTING GRADE ELEVATION
	TOP 3069.67 PROPOSED TOP OF SWALE
	TOE 3069.67 PROPOSED TOE OF SWALE



777 Main Street
Fort Worth, TX 76102

CRIOLLO LODGE

1218 KIZZER LANE
JAL, NEW MEXICO 88252

PROJECT NUMBER:
WFXP7601

DATE ISSUED:
10-3-19

ISSUES:

A: FOR REVIEW ONLY	10/3/19
B: INTERIM SUBMITTAL	5/01/2019
C: 95% PROGRESS SET	6/21/2019
D: FOR CONSTRUCTION	10/03/2019

REVISIONS:

SHEET CONTENTS:
GRADING PLAN - AREA 2

SHEET NUMBER:
CG102

XXX



CRIOLLO LODGE
1218 KIZZER LANE
JAL, NEW MEXICO 88252

PROJECT NUMBER:
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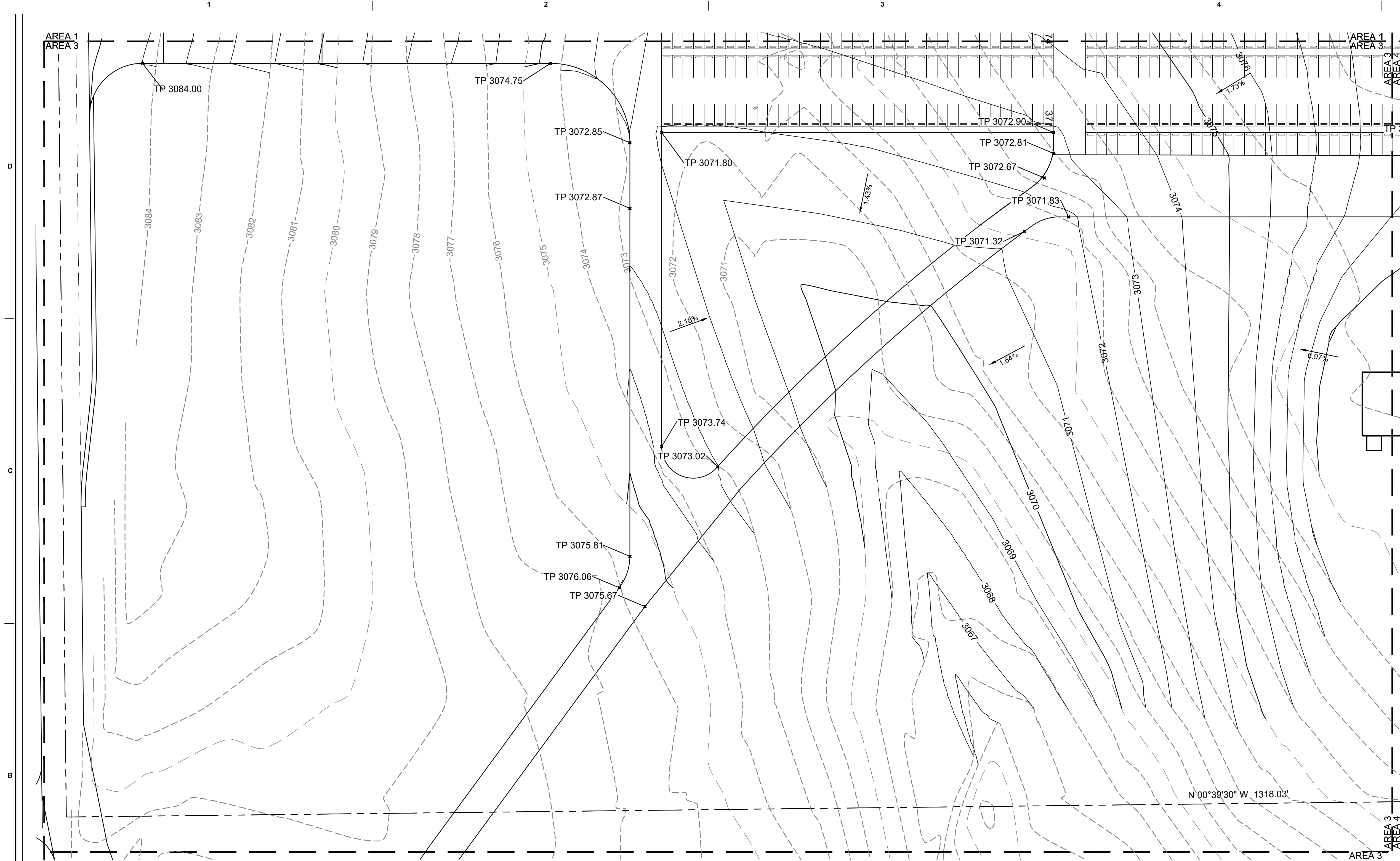
REVISIONS:

SHEET CONTENTS:
GRADING PLAN - AREA 3

SHEET NUMBER:

CG103

XXV

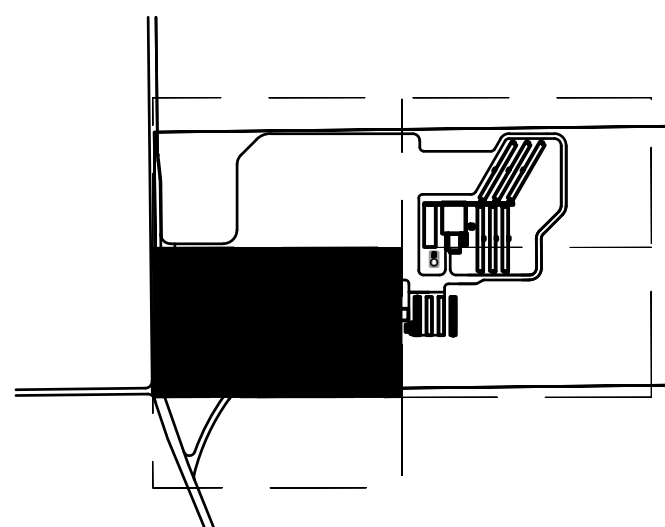


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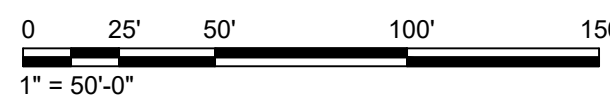
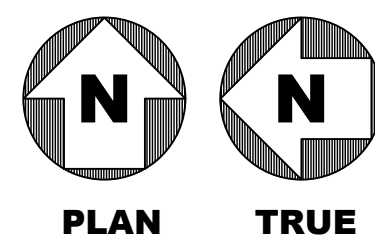
1. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS.
2. CONTRACTORS SHALL PROTECT ALL EQUIPMENT PADS, GUY WIRES, AND POWER POLES.

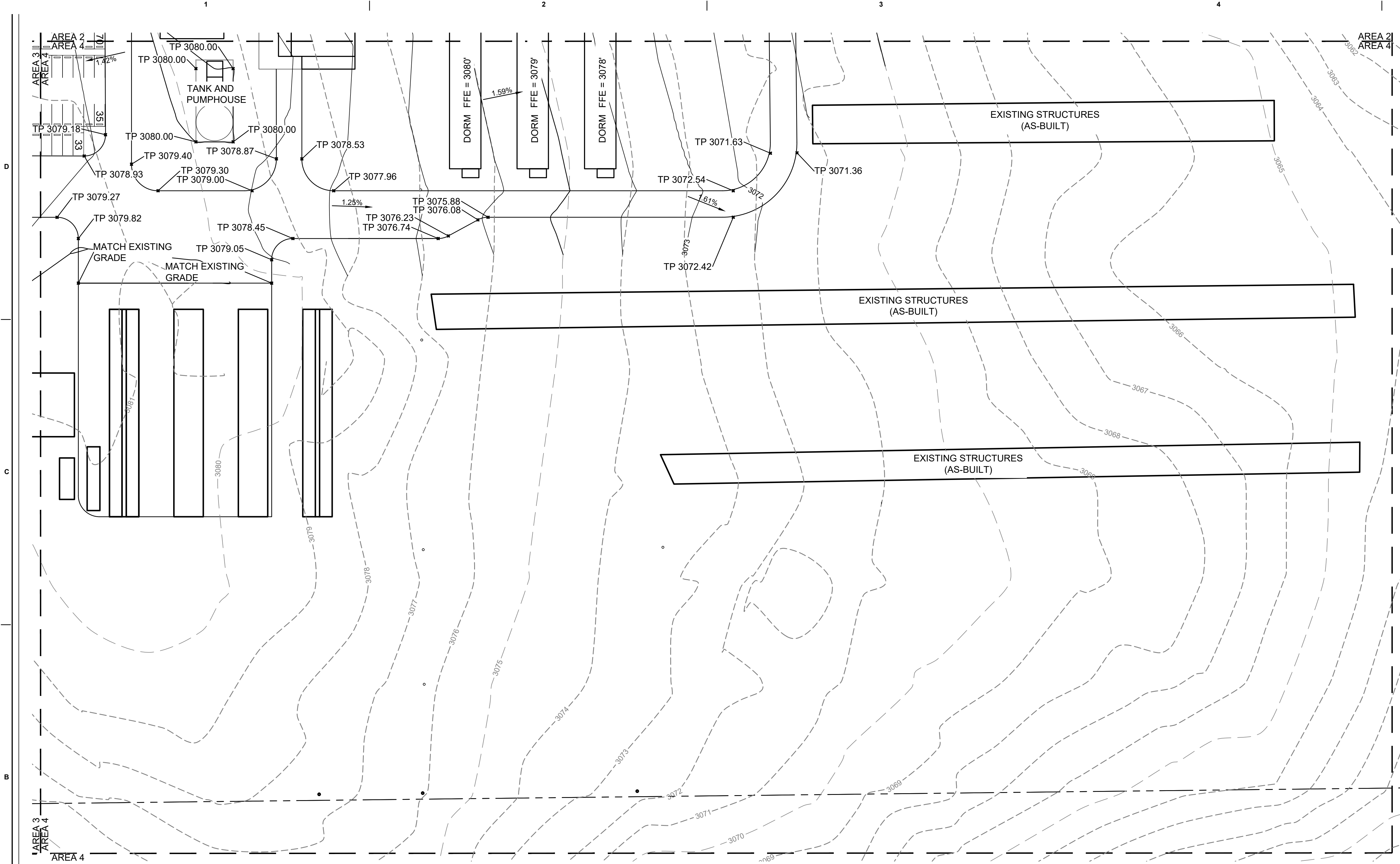
LEGEND

—————290—————	MAJOR CONTOUR
—————293—————	MINOR CONTOUR
———290———	EXISTING MAJOR CONTOUR
- - - - -293- - - - -	EXISTING MINOR CONTOUR
TP 3069.67	PROPOSED TOP OF PAVEMENT ELEVATION
EG 3069.67	EXISTING GRADE ELEVATION



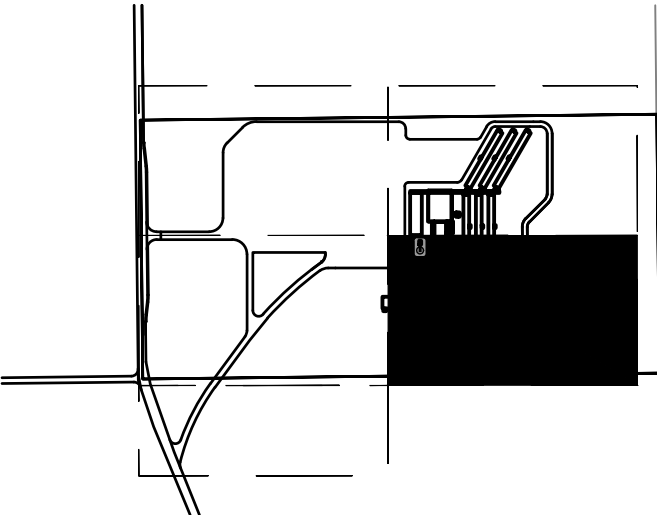
KEY MAP



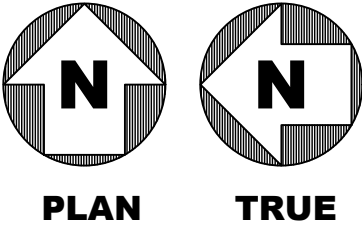


- NOTES:
1. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS.
 2. CONTRACTORS SHALL PROTECT ALL EQUIPMENT PADS, GUY WIRES, AND POWER POLES.

LEGEND	
— 290 —	MAJOR CONTOUR
— 293 —	MINOR CONTOUR
- - - 290 - - -	EXISTING MAJOR CONTOUR
- - - 293 - - -	EXISTING MINOR CONTOUR
TP 3069.67	PROPOSED TOP OF PAVEMENT ELEVATION
EG 3069.67	EXISTING GRADE ELEVATION



KEY MAP



777 Main Street
Fort Worth, TX 76102

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1218 KIZZER LANE
JAL, NEW MEXICO 88252

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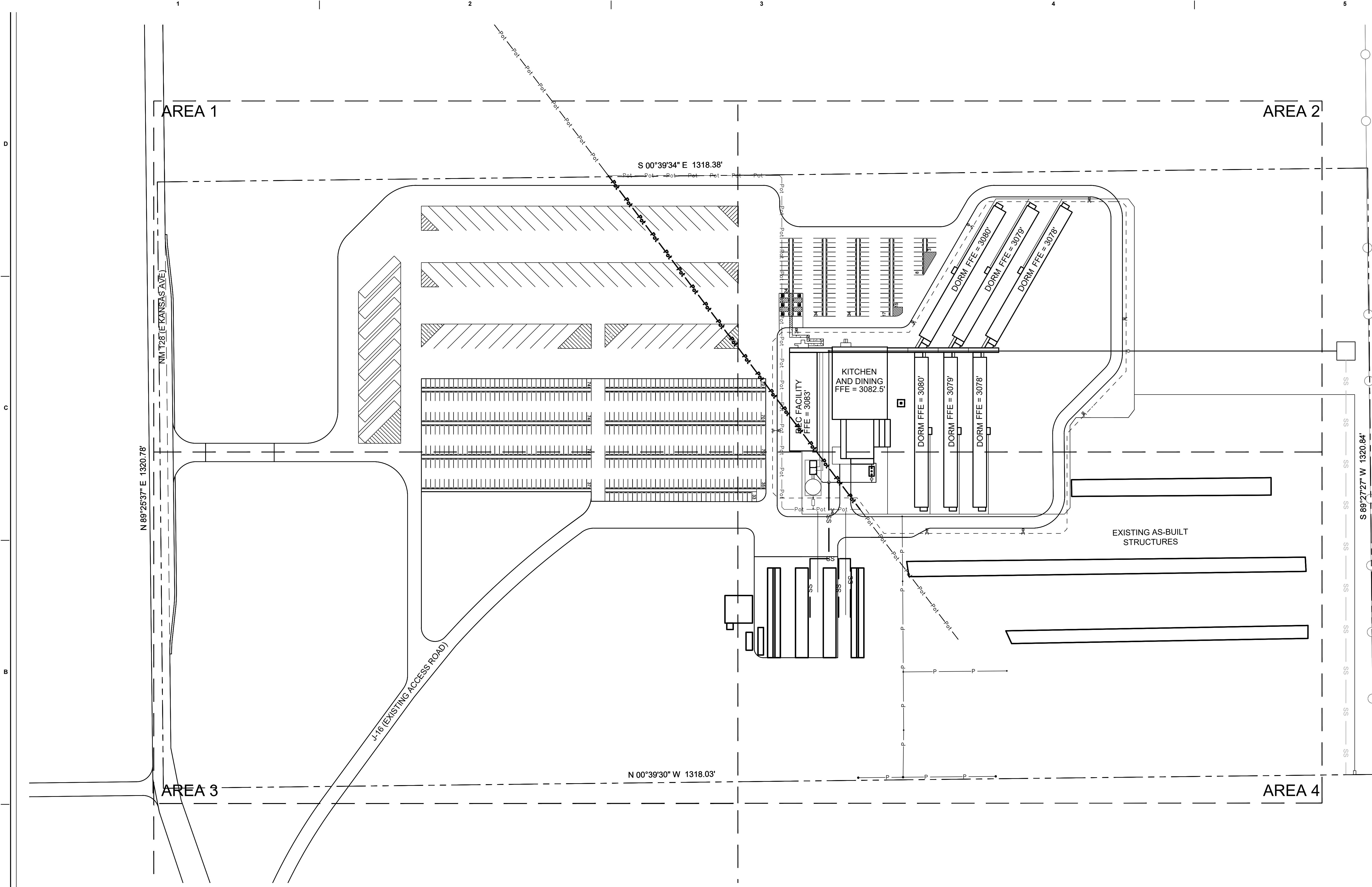
A: FOR REVIEW ONLY	10/3/19
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REVISIONS:

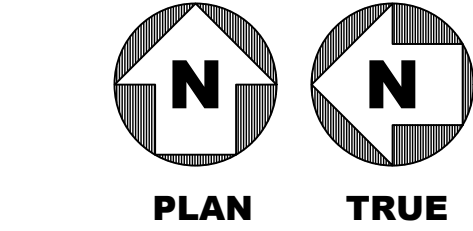
SHEET CONTENTS:
GRADING PLAN - AREA 4

SHEET NUMBER:
CG104

XXX



LEGEND	
	POWER LINE
	PROPOSED WATER LINE
	REMOVED/ABANDONED WATER LINE
	PROPOSED FIRE LINE
	PROPOSED SANITARY SEWER LINE
	PROPOSED GAS LINE
	PROPOSED FIRE HYDRANT
	PROPOSED GATE VALVE
	PROPOSED SANITARY MANHOLE



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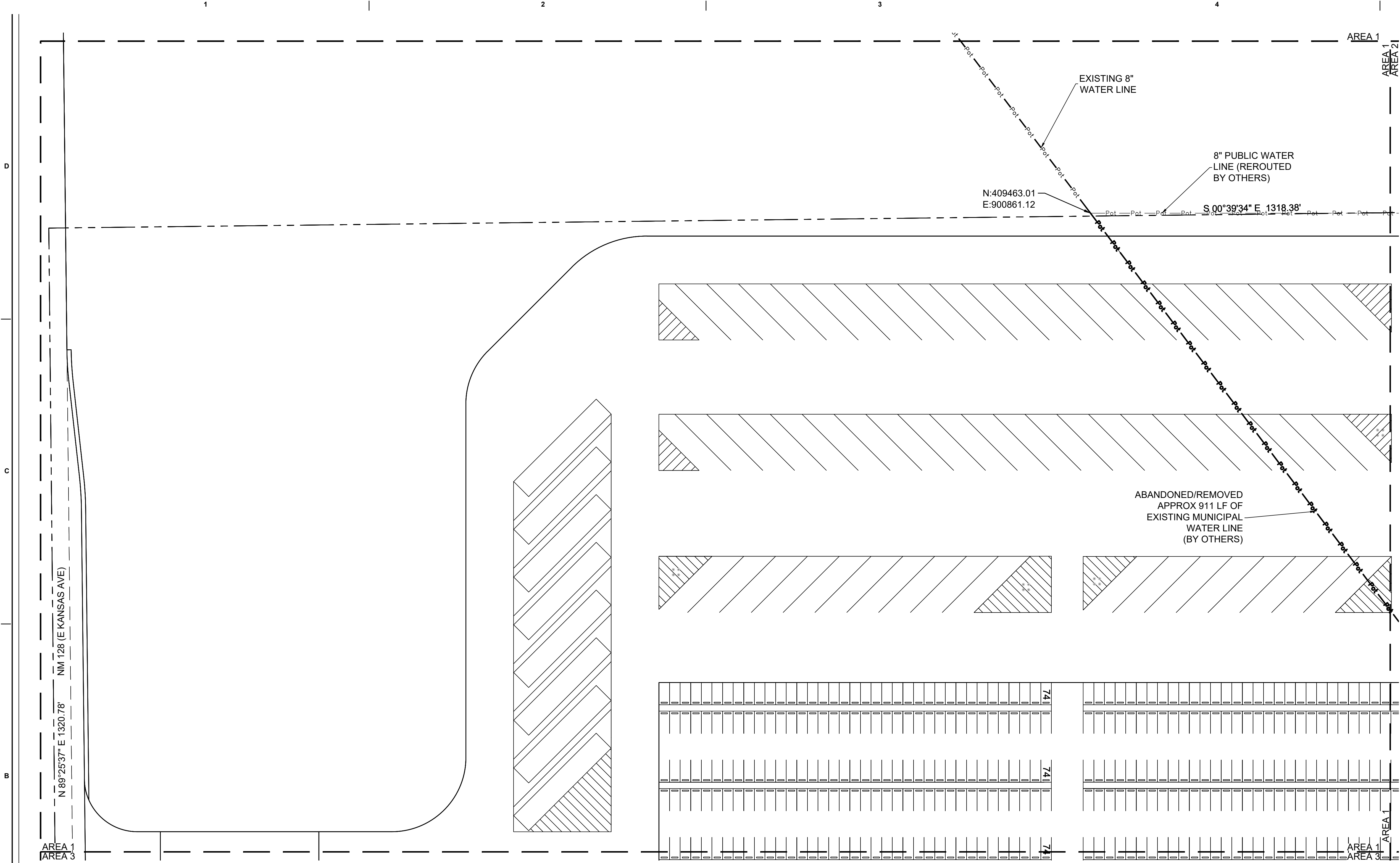
A: FOR REVIEW ONLY	10/3/19
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REVISIONS:

SHEET CONTENTS:
OVERALL UTILITY PLAN

SHEET NUMBER:
CU100

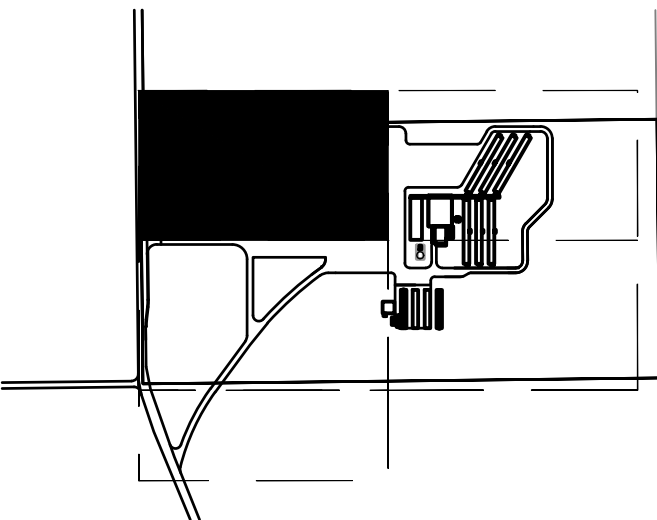
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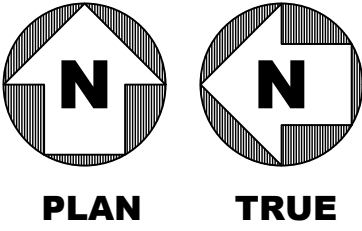
NOTES:

1. WATER METER CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF JAL AND LEA COUNTY STANDARDS AND REGULATIONS.

LEGEND	
	EXISTING POWER LINE
	REMOVED/ABANDONDED WATER LINE
	PUBLIC WATER LINE (BY OTHERS)
	PROPOSED FIRE LINE
	PROPOSED SANITARY SEWER LINE
	PROPOSED GAS LINE
	PROPOSED FIRE HYDRANT
	PROPOSED GATE VALVE
	PROPOSED SANITARY MANHOLE



KEY MAP



777 Main Street
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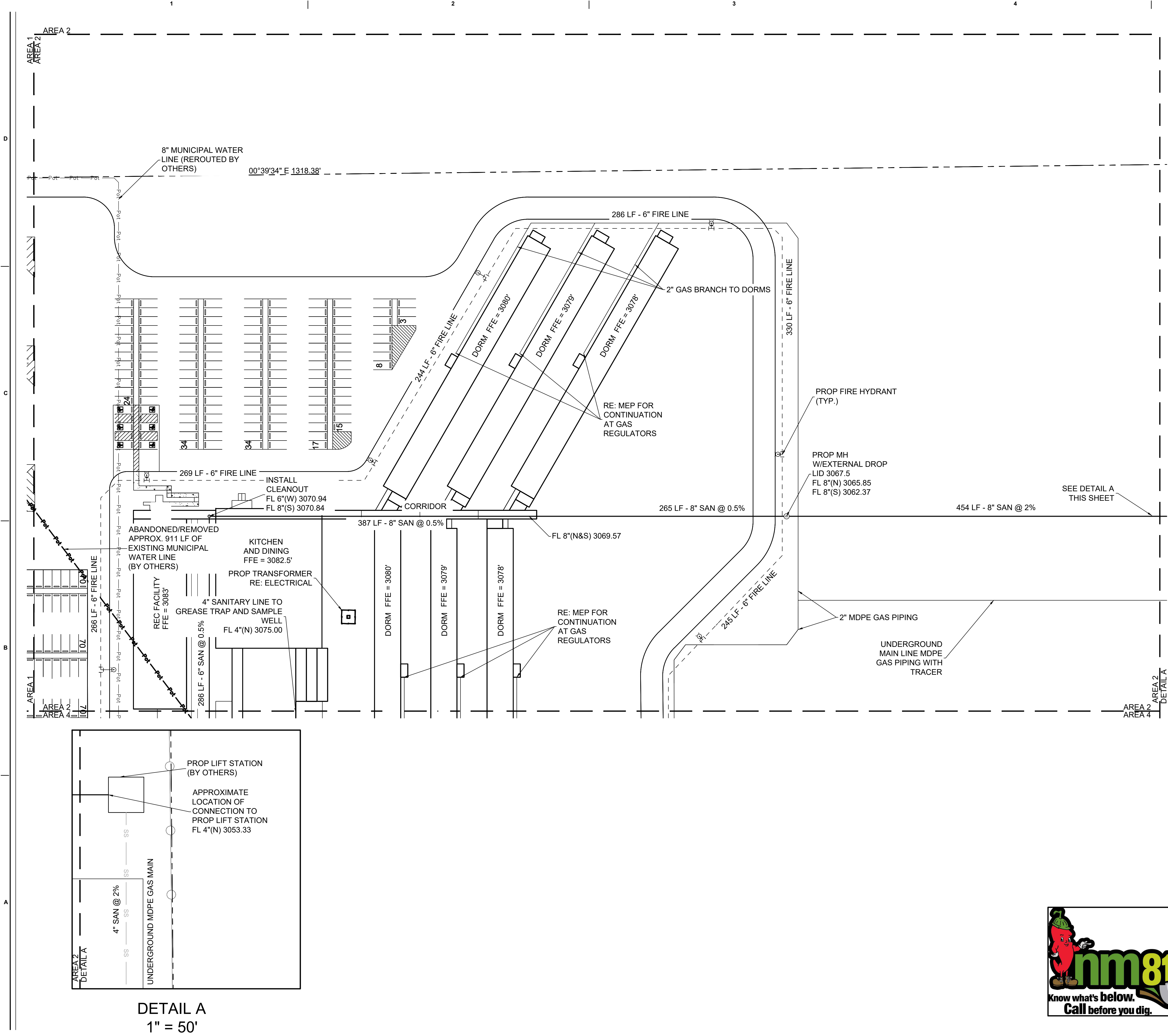
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D: FOR CONSTRUCTION	10/03/2019

REVISIONS:

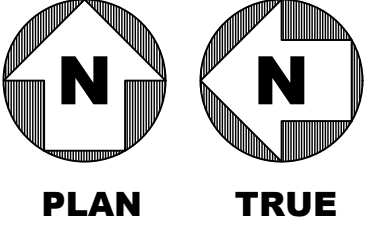
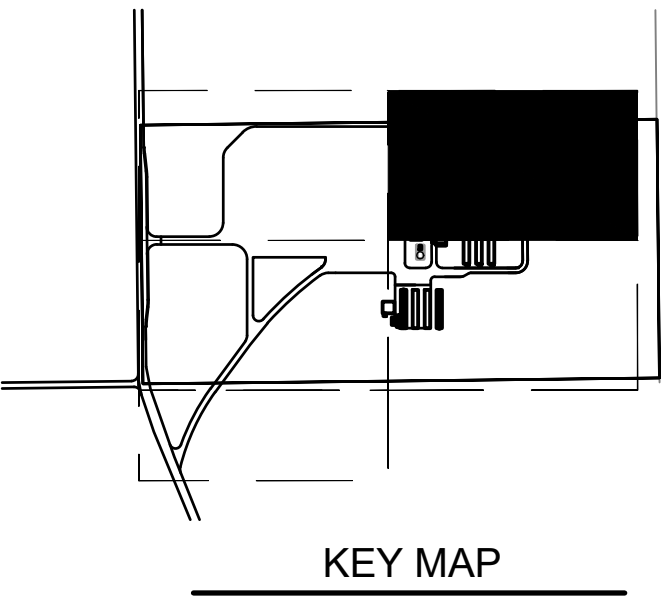
SHEET CONTENTS:
UTILITY PLAN - AREA 1

SHEET NUMBER:
CU101



- NOTES:
1. WATER METER CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF JAL AND LEA COUNTY STANDARDS AND REGULATIONS.
 2. REFER TO MEP FOR SANITARY CONNECTIONS FROM SUSPENDE SERVICE UNDER DORMS TO PIPE LOCATED UNDERNEATH CORRIDOR.

LEGEND	
	EXISTING POWER LINE
	REMOVED/ABANDONDED WATER LINE
	PUBLIC WATER LINE (BY OTHERS)
	PROPOSED FIRE LINE
	PROPOSED SANITARY SEWER LINE
	PROPOSED GAS LINE
	PROPOSED FIRE HYDRANT
	PROPOSED GATE VALVE
	PROPOSED SANITARY MANHOLE



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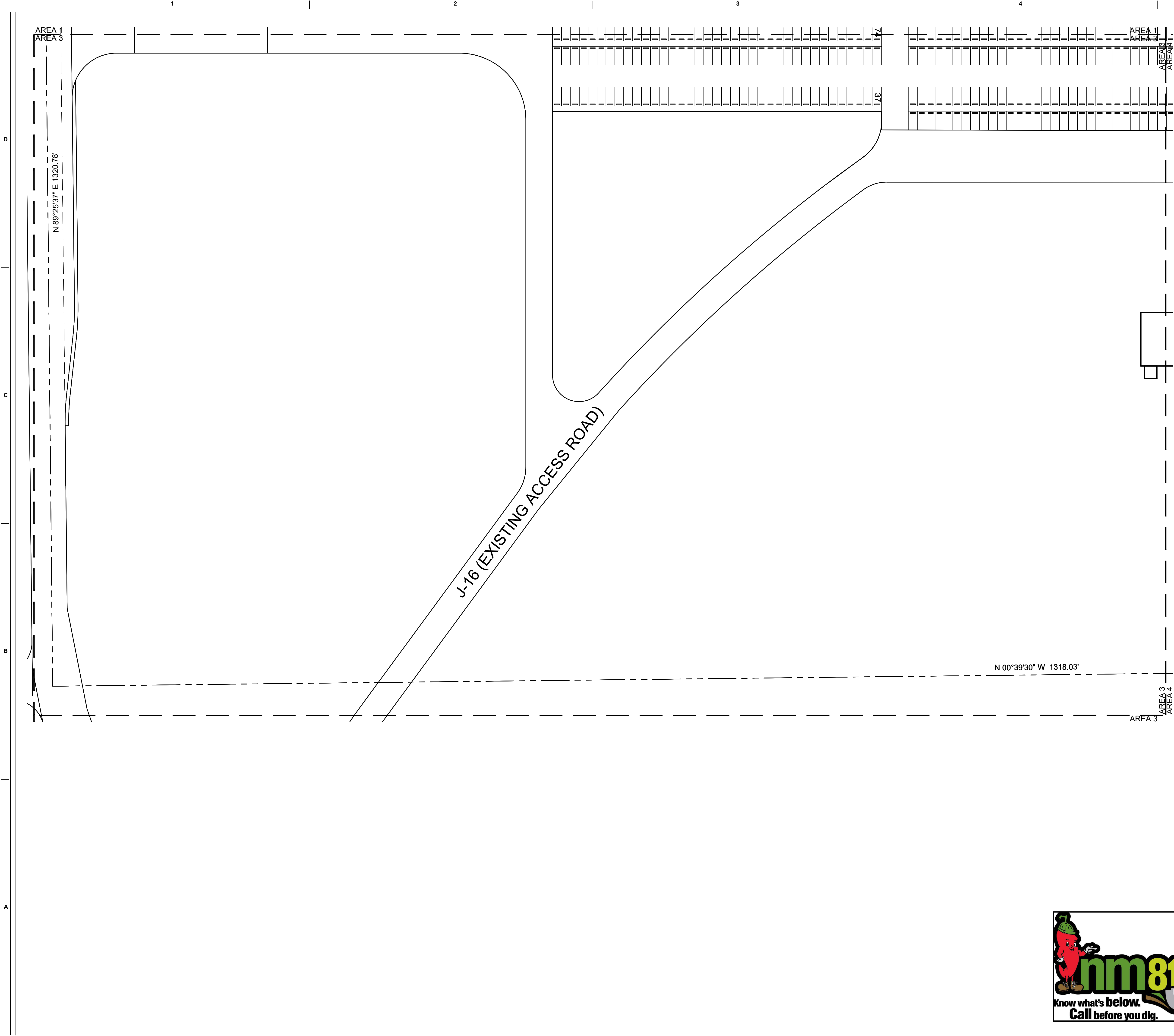
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REVISIONS:

SHEET CONTENTS:
UTILITY PLAN - AREA 2

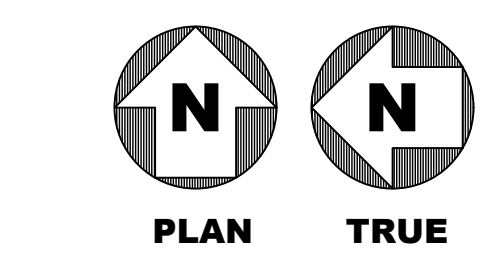
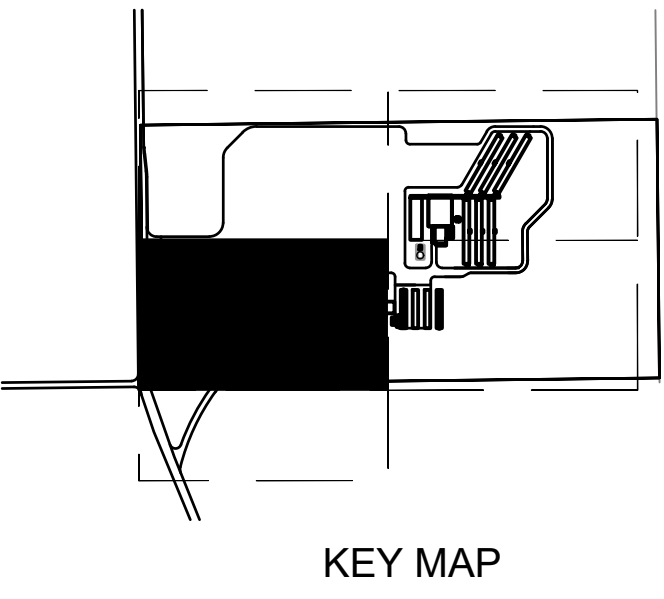
SHEET NUMBER:
CU102





- NOTES:
1. WATER METER CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF JAL AND LEA COUNTY STANDARDS AND REGULATIONS.
 2. REFER TO MEP FOR SANITARY CONNECTIONS FROM SUSPENDED SERVICE UNDER DORMS TO PIPE LOCATED UNDERNEATH CORRIDOR.

LEGEND	
	EXISTING POWER LINE
	REMOVED/ABANDONDED WATER LINE
	PUBLIC WATER LINE (BY OTHERS)
	PROPOSED FIRE LINE
	PROPOSED SANITARY SEWER LINE
	PROPOSED GAS LINE
	PROPOSED FIRE HYDRANT
	PROPOSED GATE VALVE
	PROPOSED SANITARY MANHOLE



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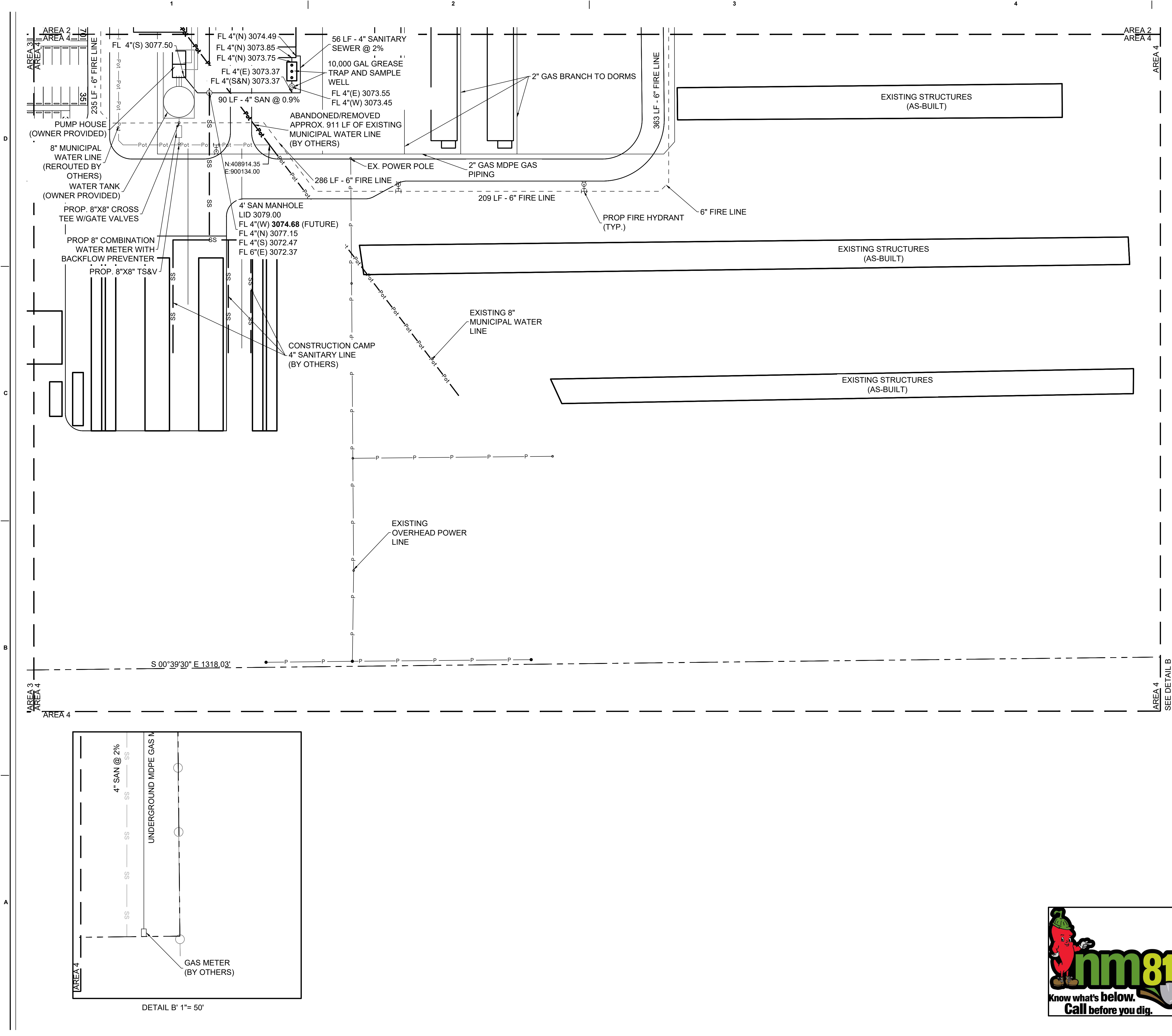
A: FOR REVIEW ONLY	10/3/19
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REVISIONS:

SHEET CONTENTS:
UTILITY PLAN - AREA 3

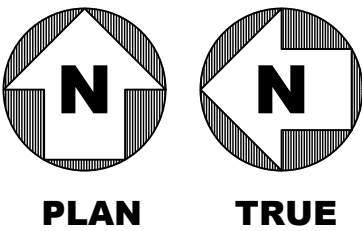
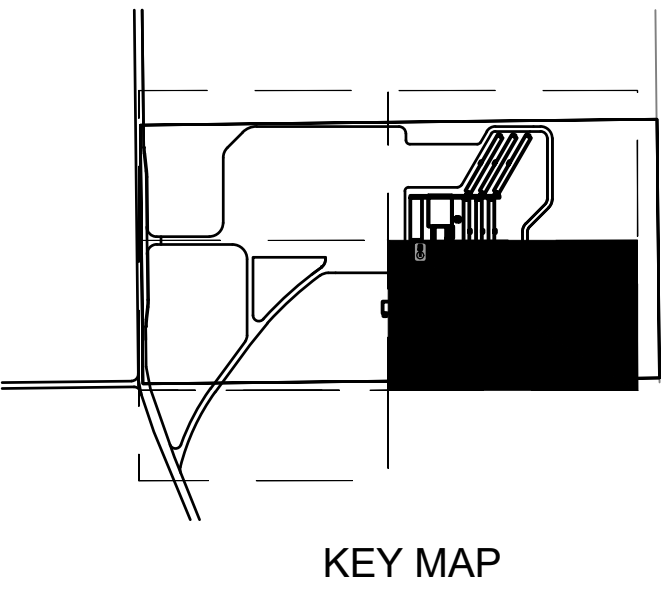
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XXX



- NOTES:
1. WATER METER CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF JAL AND LEA COUNTY STANDARDS AND REGULATIONS.
 2. REFER TO MEP FOR SANITARY CONNECTIONS FROM SUSPENDED SERVICE UNDER DORMS TO PIPE LOCATED UNDERNEATH CORRIDOR.
 3. REFER TO MEP AND FIRE PROTECTION FOR EQUIPMENT INSIDE PUMP HOUSE, CONNECTIONS AND DETAILS

LEGEND	
	EXISTING POWER LINE
	REMOVED/ABANDONDED WATER LINE
	PUBLIC WATER LINE (BY OTHERS)
	PROPOSED FIRE LINE
	PROPOSED SANITARY SEWER LINE
	PROPOSED GAS LINE
	PROPOSED FIRE HYDRANT
	PROPOSED GATE VALVE
	PROPOSED SANITARY MANHOLE



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REVISIONS:

SHEET CONTENTS:
UTILITY PLAN - AREA 4

SHEET NUMBER:
CU104

XXX

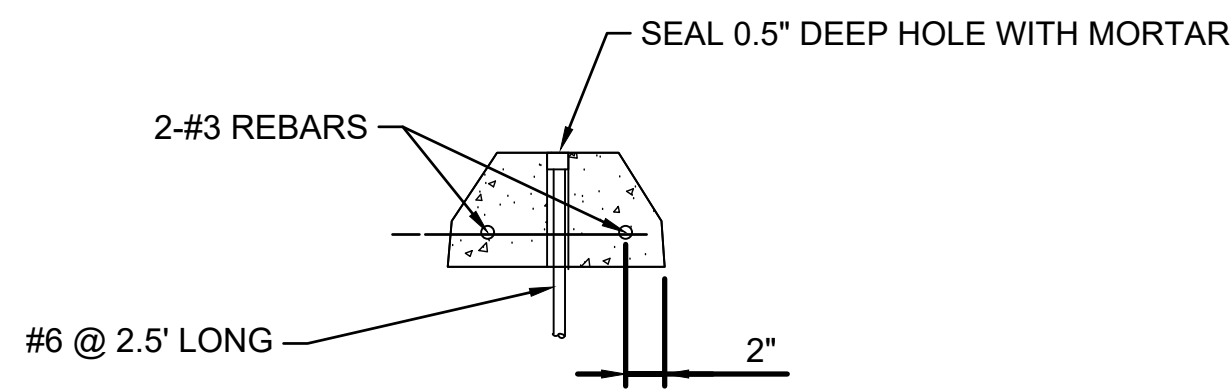
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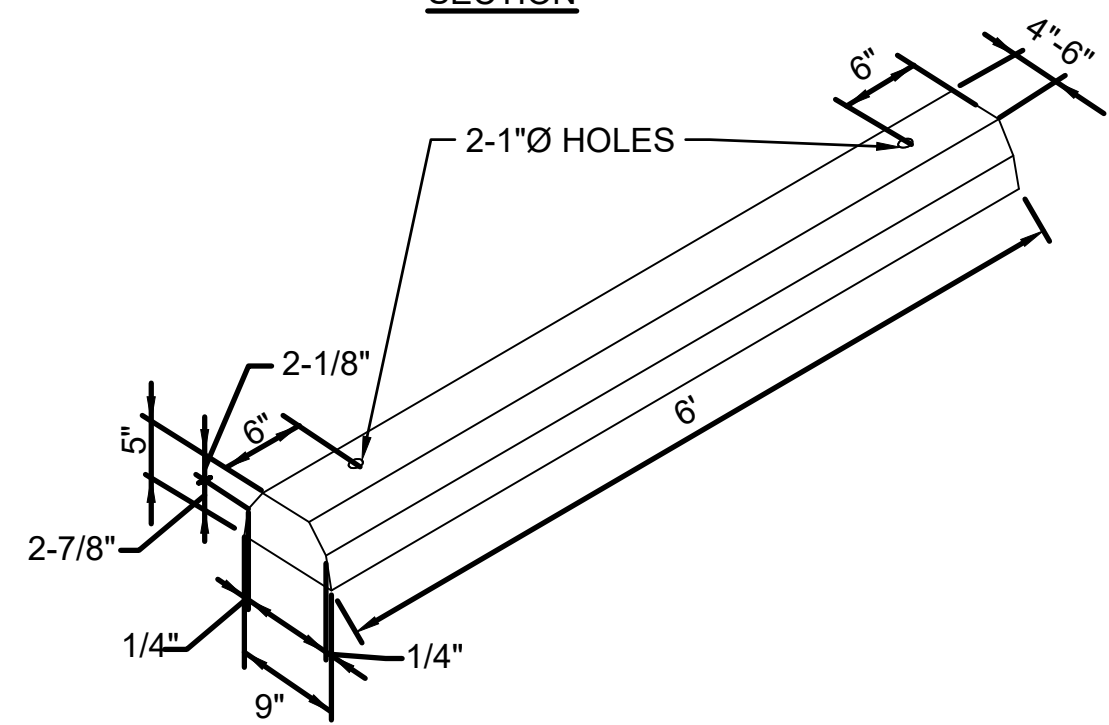
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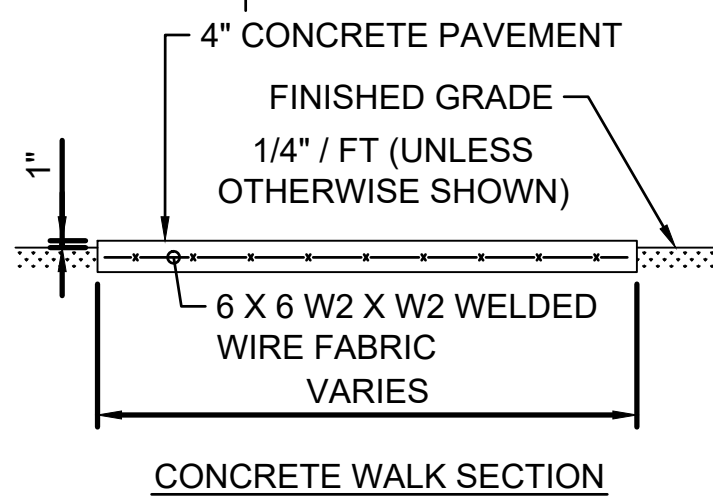
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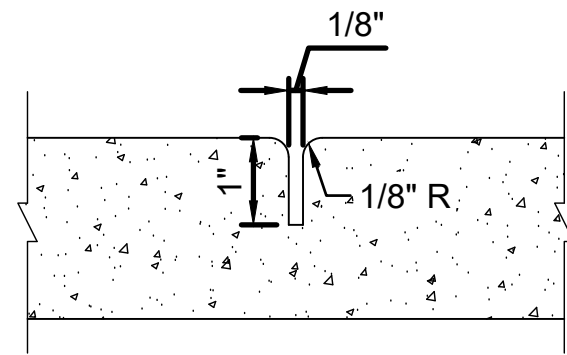
SECTION



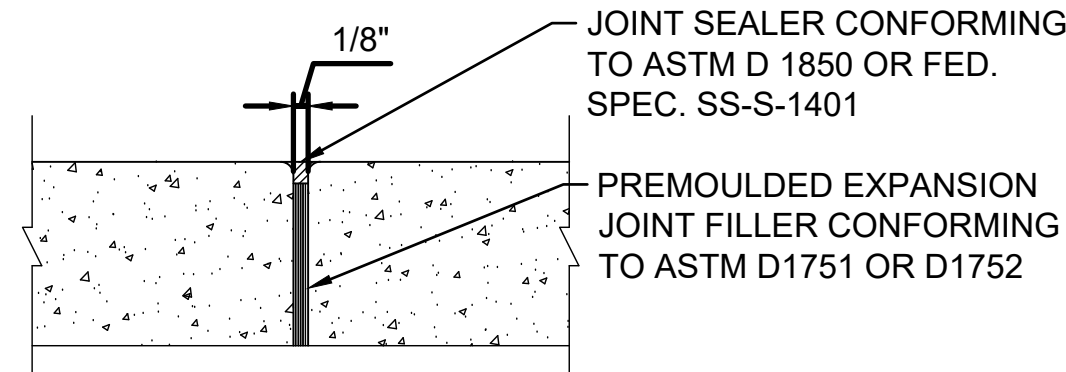
1 PRECAST CONCRETE WHEEL STOP
SCALE N.T.S.



CONCRETE WALK SECTION

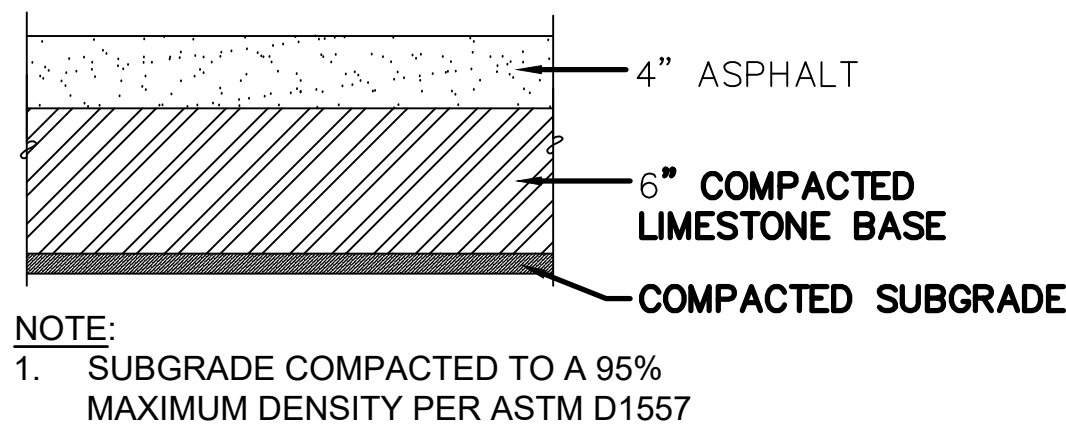


CONTRACTION JOINT

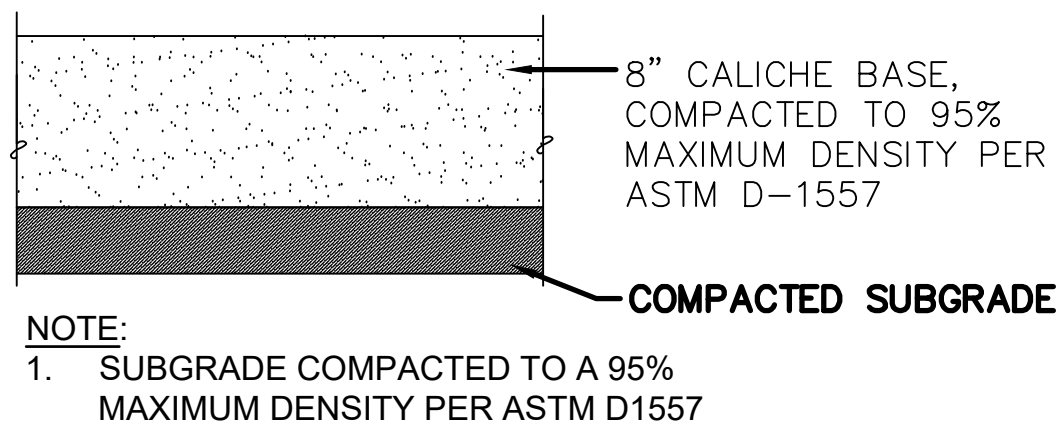


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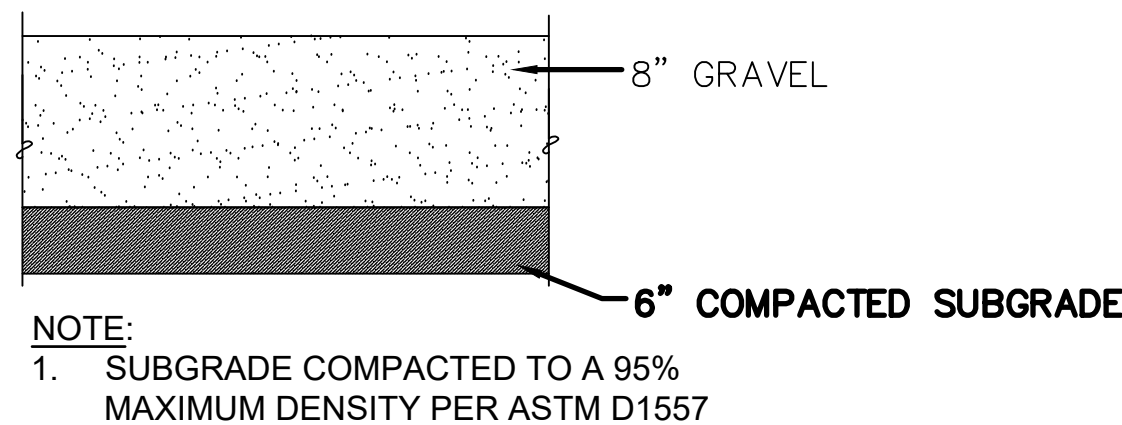
2 TYPICAL CONCRETE WALK DETAIL
SCALE NTS



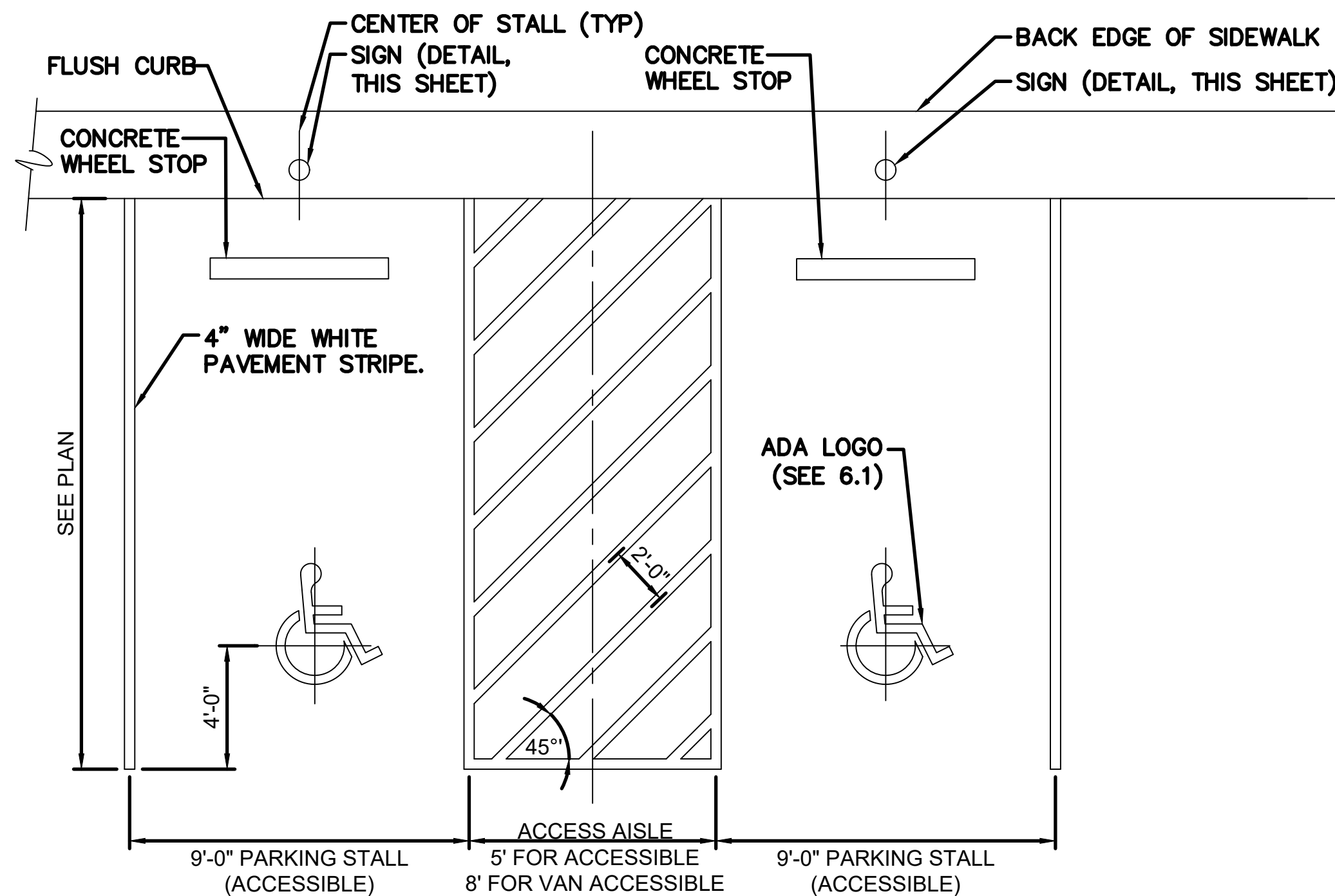
3 ASPHALT PAVEMENT SECTION
SCALE NTS



4 CALICHE PAVEMENT SECTION
SCALE NTS

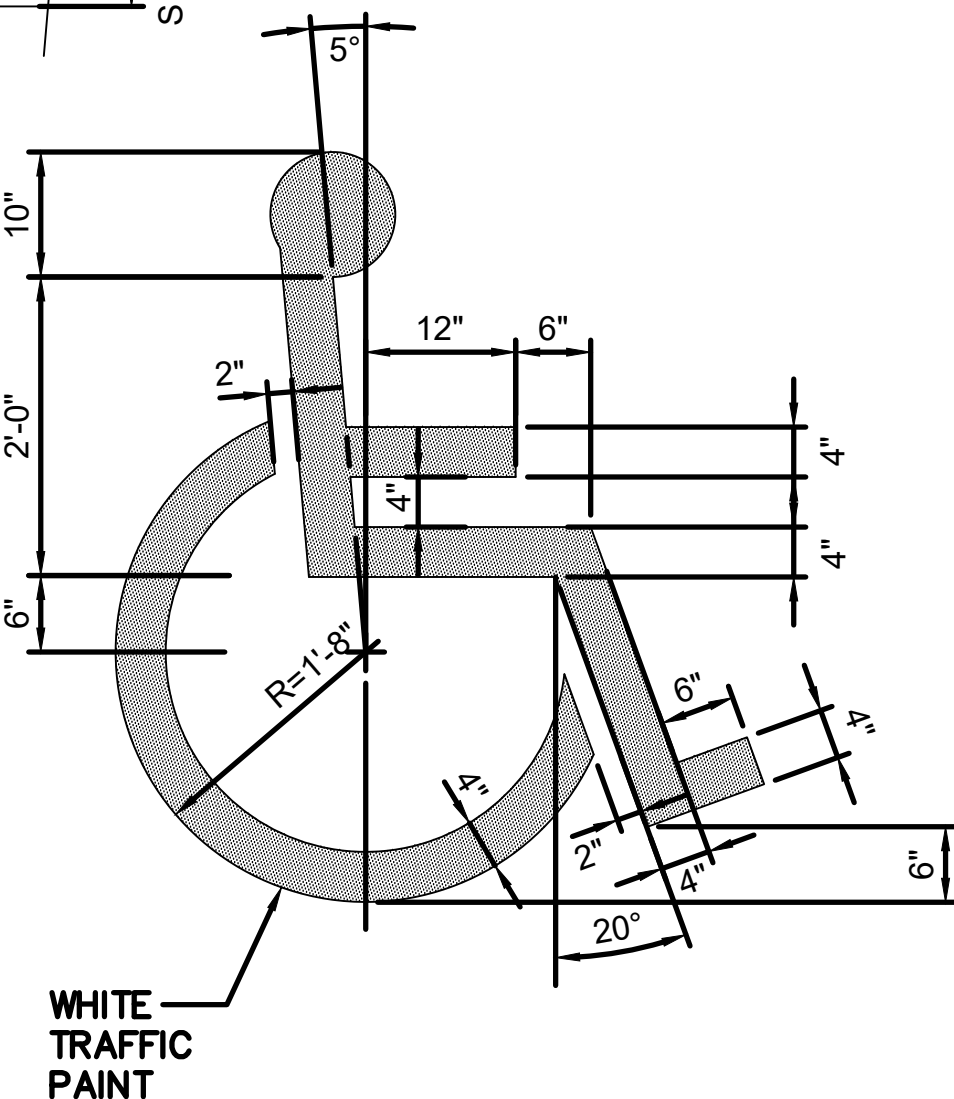


5 GRAVEL PAVEMENT SECTION
SCALE NTS

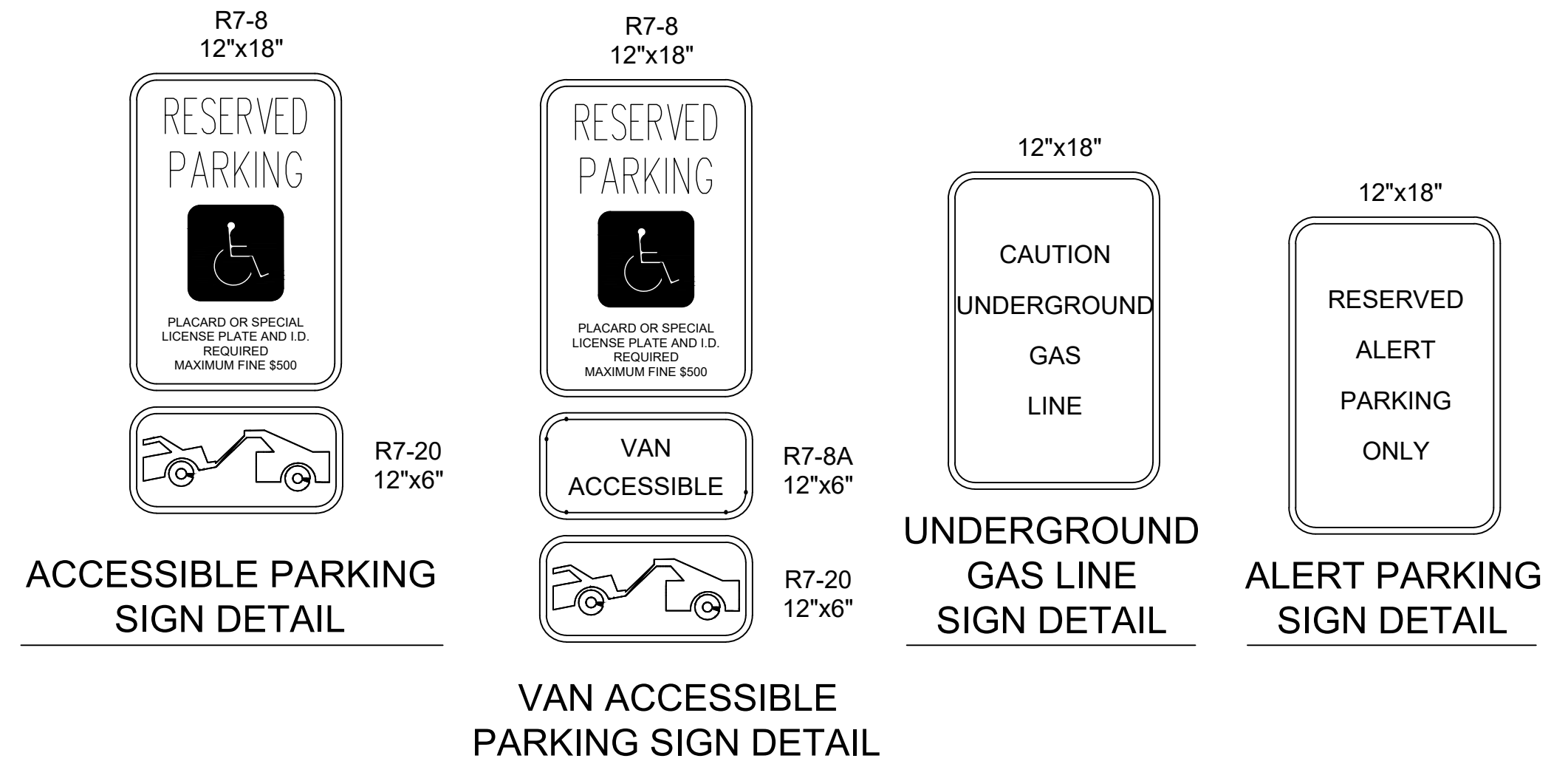


NOTE: TWO ADJACENT ADA PARKING STALLS MAY SHARE A COMMON ACCESS AISLE.

6 ADA PARKING LAYOUT DETAIL
SCALE N.T.S.



6.1 ADA LOGO DETAIL
SCALE N.T.S.

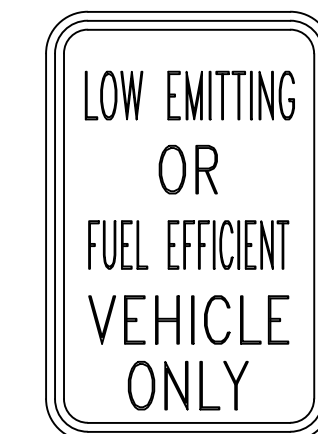


ACCESSIBLE PARKING
SIGN DETAIL

VAN ACCESSIBLE
PARKING SIGN DETAIL

UNDERGROUND
GAS LINE
SIGN DETAIL

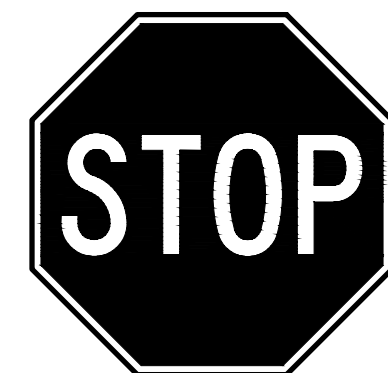
ALERT PARKING
SIGN DETAIL



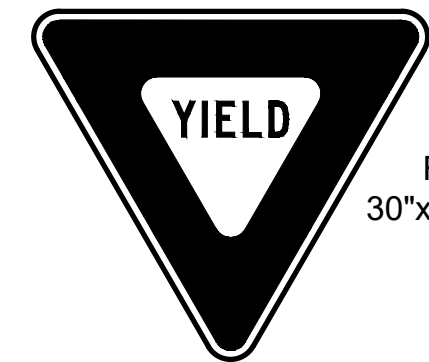
LE/FE PARKING
SIGN DETAIL



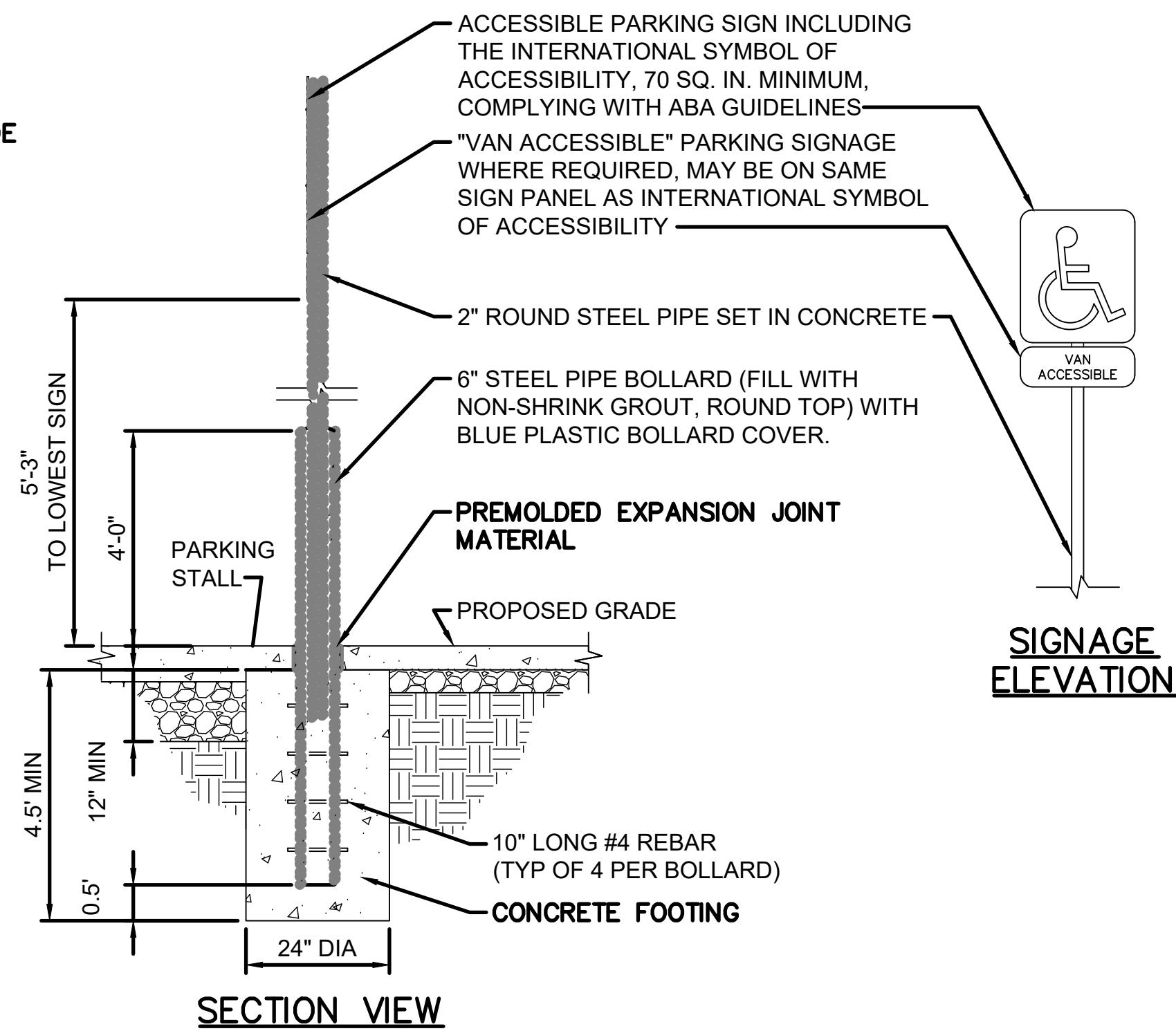
HOV PARKING
SIGN DETAIL



STOP SIGN DETAIL



YIELD SIGN
DETAIL



SECTION VIEW

- NOTES:
1. SIGN DETAILS SHALL CONFORM TO THE LATEST EDITIONS OF FHWA PUBLICATIONS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", "STANDARD ALPHABETS FOR HIGHWAY SIGNS", AND AS AMENDED.
 2. SIGN SHALL BE HIGH INTENSITY REFLECTIVE SHEETING UNLESS OTHERWISE SPECIFIED.
 3. SIGN SHALL HAVE 3/8" BOLT HOLES DRILLED AT APPROXIMATE LOCATIONS.
 4. SIGN LETTERING SHALL BE UPPER CASE.
 5. SIGN BACKGROUND SHALL BE WHITE.
 6. PAINT BACK OF SIGN AND POST ASSEMBLY PER BASE COLOR.
 7. REFLECTORIZED SIGNS SHALL BE MADE OF ALUMINUM ATTACHED TO STEEL POST (NO HOLES AND CAPPED AT TOP OF POST) WITH STAINLESS STEEL BOLTS.

7 SIGN POST AND SIGN DETAILS
SCALE NTS

Jacobs

777 Main Street
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AMITY
LODGES

CRIOLLO LODGE
1218 KIZZER LANE
JAL, NEW MEXICO 88252

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REVISIONS:

SHEET CONTENTS:
SITE DETAILS

SHEET NUMBER:

CS500

XXX

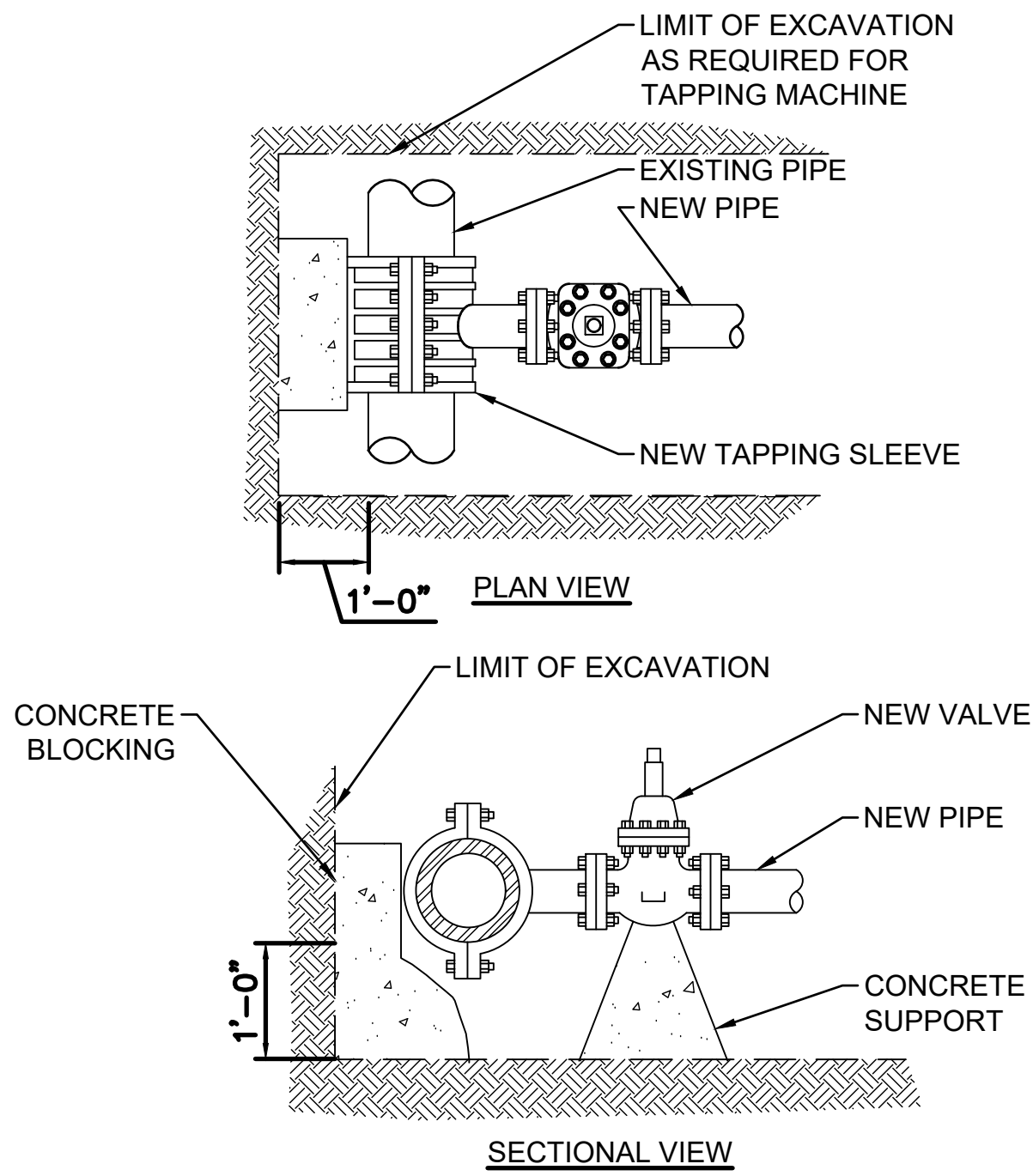


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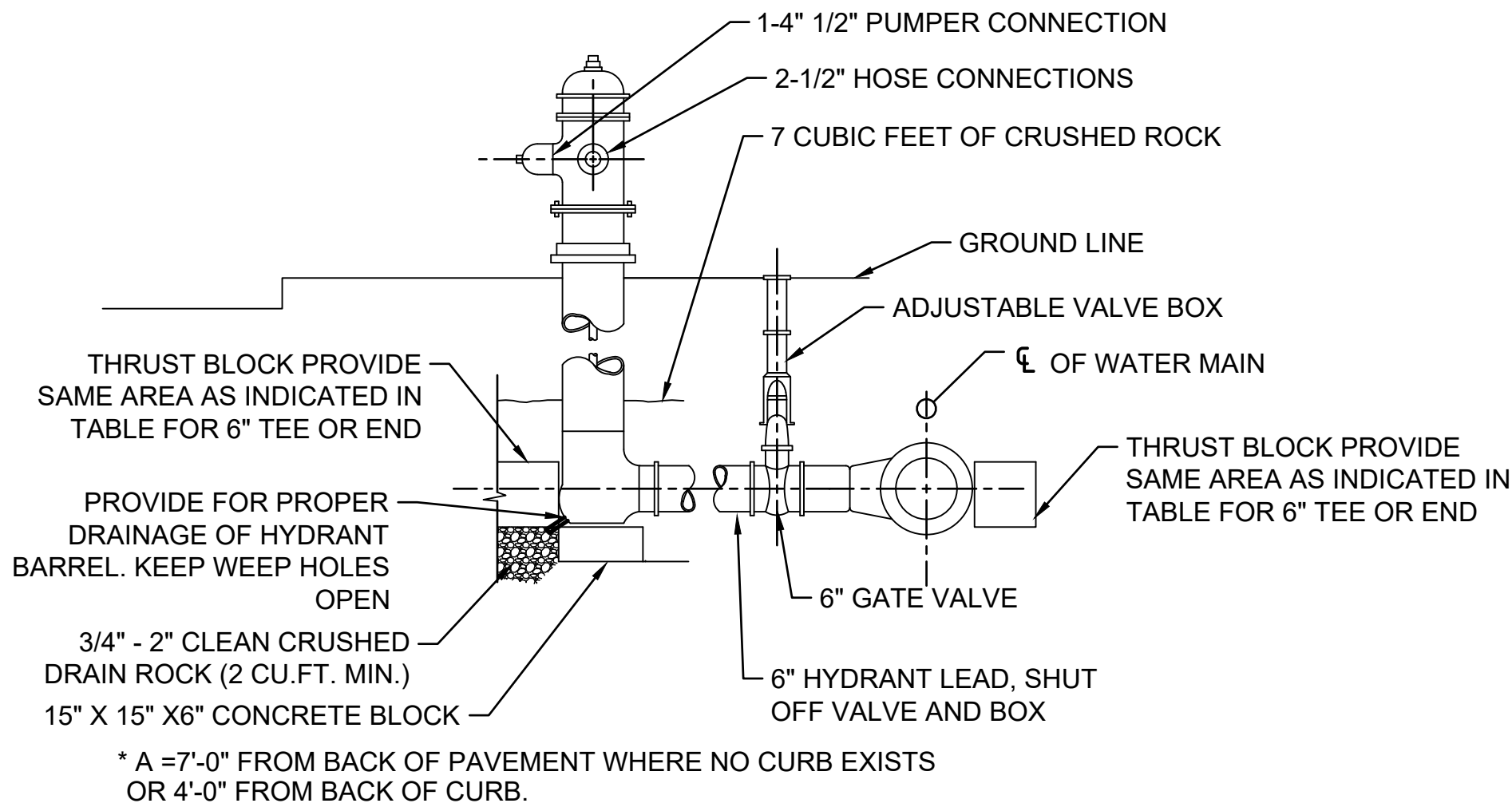
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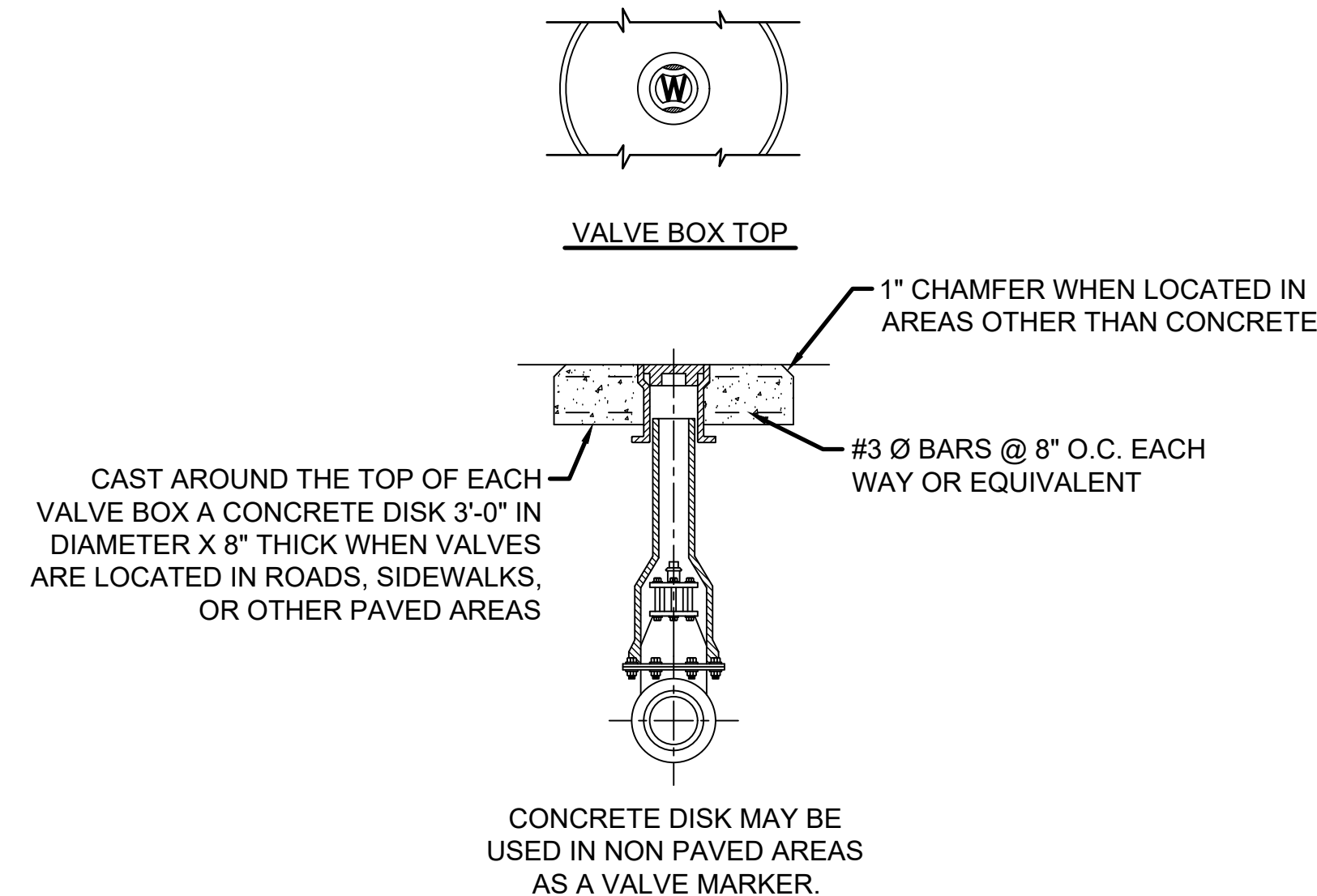
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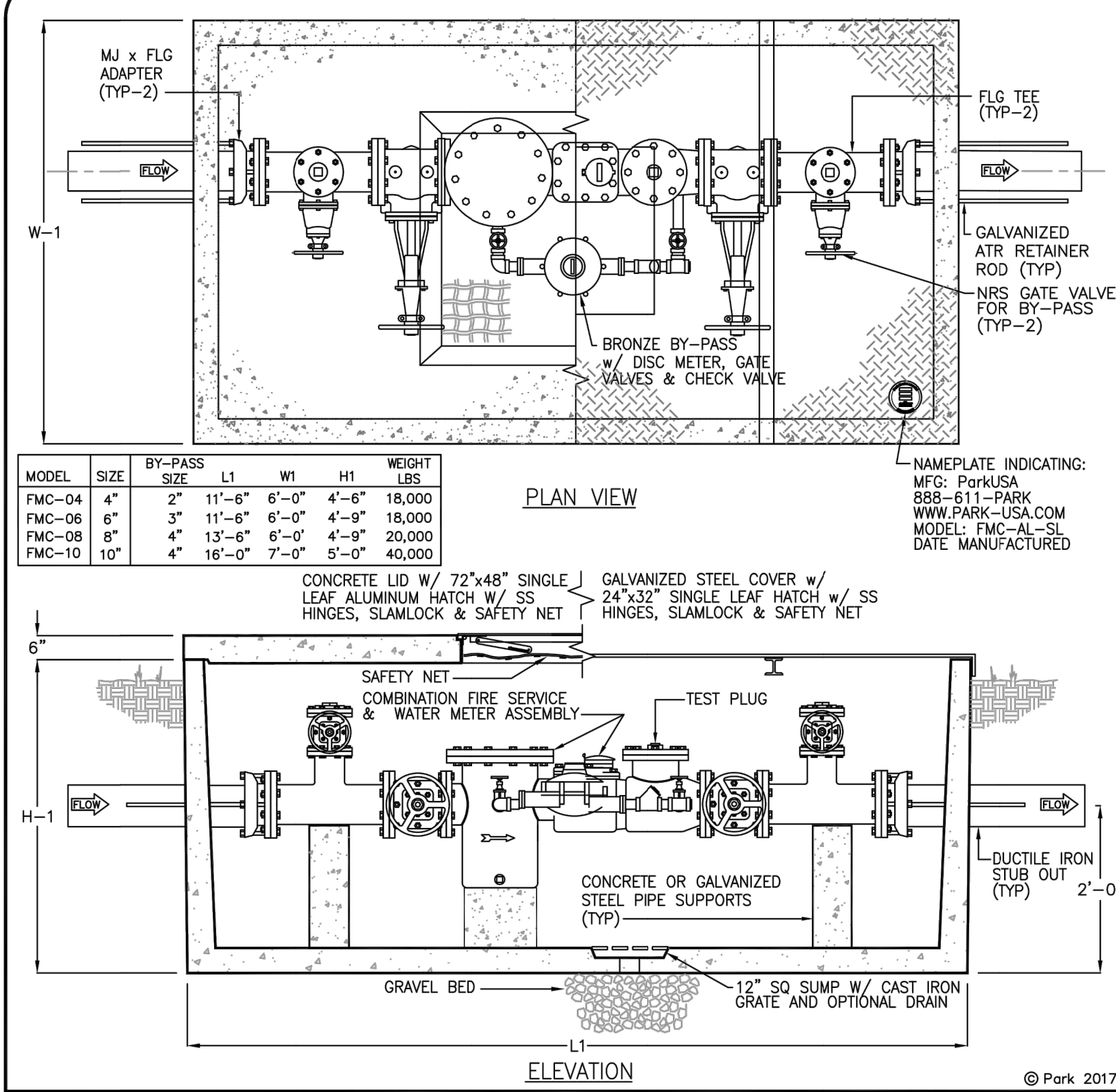
1 TAPPING SLEEVE & VALVE CONNECTION
SCALE N.T.S.



2 FIRE HYDRANT ASSEMBLY
SCALE N.T.S.

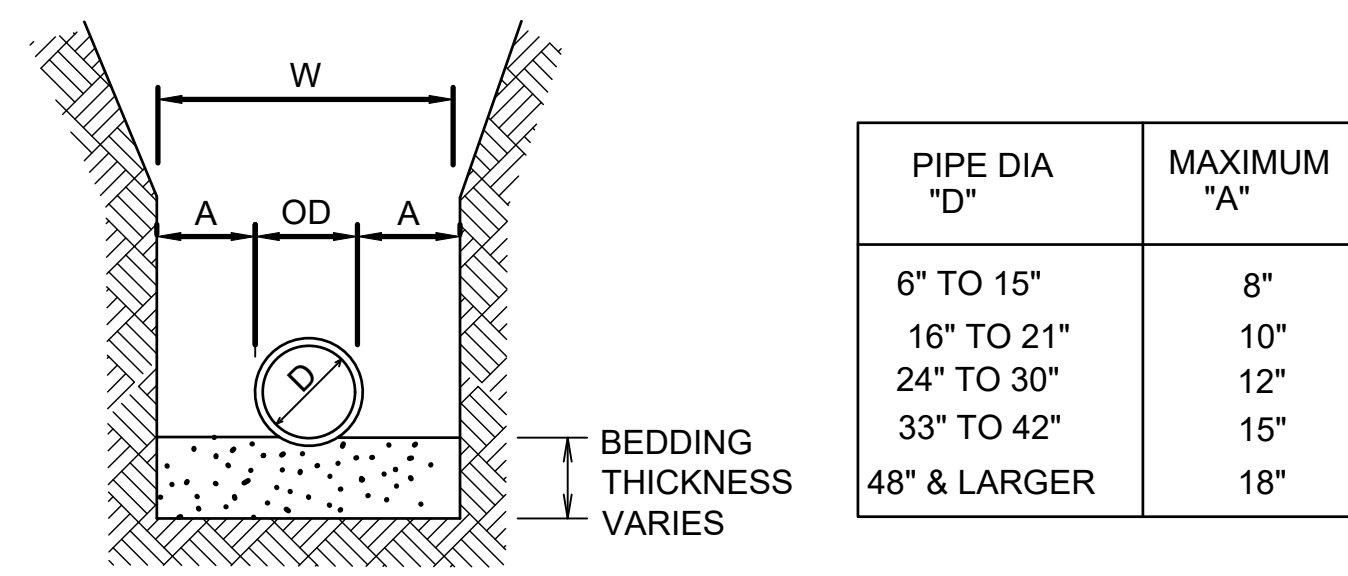


3 VALVE BOX
SCALE N.T.S.



Specifications CONCRETE: Class I/II concrete with design strength of 4500 PSI at 28 days. Unit is of monolithic construction at floor and first stage of wall with sectional riser to required depth. REINFORCEMENT: Grade 60 reinforced. Steel rebar conforming to ASTM A615 on required centers or equal. ACCESS COVER: 1/4" steel skid-resistant floor plate welded to 3" angle frame with (2) 3"x2-3/8" I-beam supports. Hatch to be furnished with 316 stainless steel bolts and hinges. ACCESS HATCHWAY: 1/4" Aluminum diamond plate cover with extruded aluminum frame. Hatch to be furnished with 316 stainless steel slam lock & hinges. Engineering Data The meter assembly shall be factory assembled in vault & hydrostatically tested prior to delivery. Field excavation & preparation shall be complete prior to delivery. Pipe, valves and fittings of the assembly shall be approved by one or more of the following associations:	
PROJECT: CUSTOMER: ENGINEER: ORDER #: PROJ #: DATE:	
 FIRE & DOMESTIC COMBINATION WATER METER ASSEMBLY MODEL FMC - 4" THRU 10"	
PM DATE 08/2017	REV. A

4 8" COMBINATION WATER METER ASSEMBLY
SCALE N.T.S.



NOTE: PROVIDE BEDDING IN ACCORDANCE WITH THE SPECIFICATIONS.

5 STANDARD PIPE TRENCH WIDTH
SCALE N.T.S.

Jacobs

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CRIOLLO LODGE

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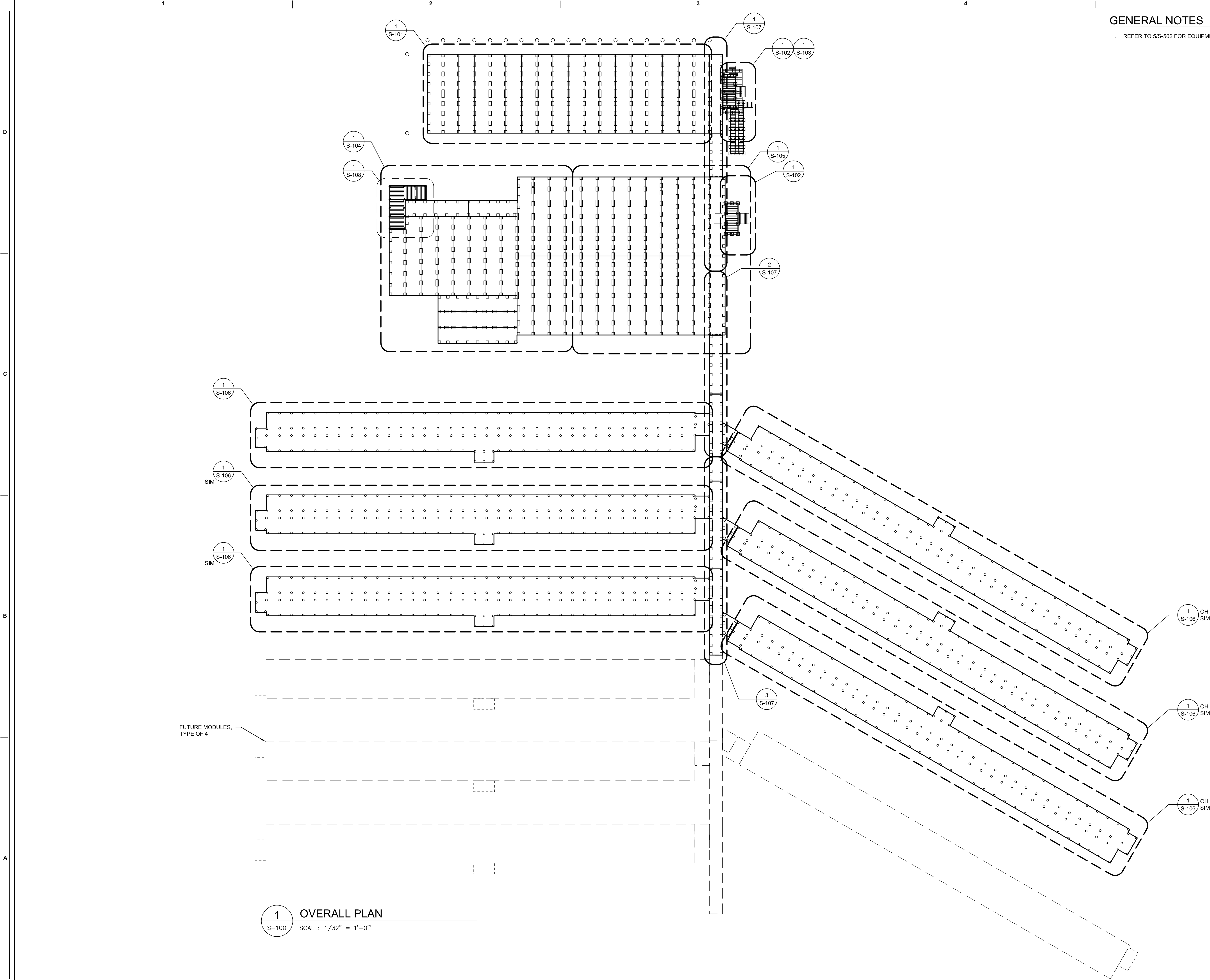
REVISIONS:

SHEET CONTENTS:
UTILITY DETAILS

SHEET NUMBER:
CU501

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GENERAL NOTES

1. REFER TO 5/S-502 FOR EQUIPMENT PAD FOUNDATION.

Jacobs

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TIMOTHY A. POTYAL

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16587

PROFESSIONAL ENGINEER

10/3/2019

AMITY

LODGES

CRIOLLO LODGE

1218 KIZZER LANE

JAL, NEW MEXICO 88252

PROJECT NUMBER:
WFXP7601

DATE ISSUED:
10-3-19

ISSUES:

A: FOR REVIEW ONLY	10/3/19
B: INTERIM SUBMITTAL	5/01/2019
C: 95% PROGRESS SET	6/21/2019
D: FOR CONSTRUCTION	10/03/2019

REVISIONS:

SHEET CONTENTS:
OVERALL SITE PLAN

SHEET NUMBER:
S-100

XXX


D

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GENERAL NOTES

1. WCXX INDICATES WOOD CRIBBING. REFERENCE S-501 FOR CRIBBING DETAILS.
2. VERIFY DIMENSIONS OF EXISTING MODULAR BUILDING UNITS PRIOR TO INSTALLING CRIBBING.
3. DINING MODULE UNITS ARE 11'-9" WIDE AT FOUNDATION INSTALLED WITH 2" GAP BETWEEN MODULES.
4.  INDICATES HELICAL ANCHOR, RE: 1/2-502

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AMITY
LODGES

CRIOLLO LODGE
1218 KIZZER LANE
JAL, NEW MEXICO 88252

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A: FOR REVIEW ONLY 10/3/19

B: INTERIM SUBMITTAL 5/01/2019

C: 95% PROGRESS SET 6/21/2019

D: FOR CONSTRUCTION 10/03/2019

REVISIONS:

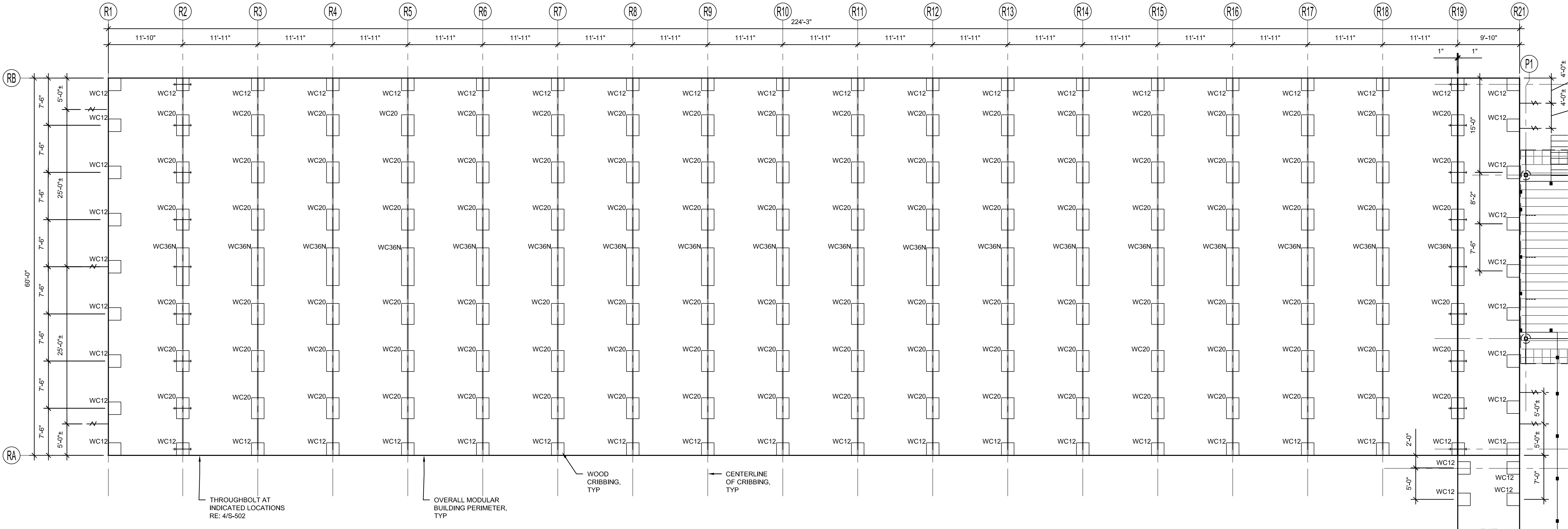
SHEET CONTENTS:

RECREATIONAL BUILDING
FOUNDATION PLAN

SHEET NUMBER:

S-101

XXX

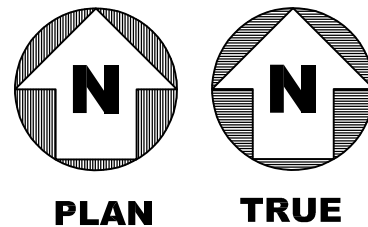


1

RECREATIONAL BUILDING FOUNDATION PLAN

S-101

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



0 4' 8' 16'
SCALE: 1/8"=1'-0"

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GENERAL NOTES

1. REFER TO ARCH FOR PORCH LOCATIONS.



CRIOLLO LODGE
1218 KIZZER LANE
JAL, NEW MEXICO 88252

PROJECT NUMBER:

WFXP7601

DATE ISSUED:

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A: FOR REVIEW ONLY	10/3/19
B: INTERIM SUBMITTAL	5/01/2019
C: 95% PROGRESS SET	6/21/2019
D: FOR CONSTRUCTION	10/03/2019

REVISIONS:

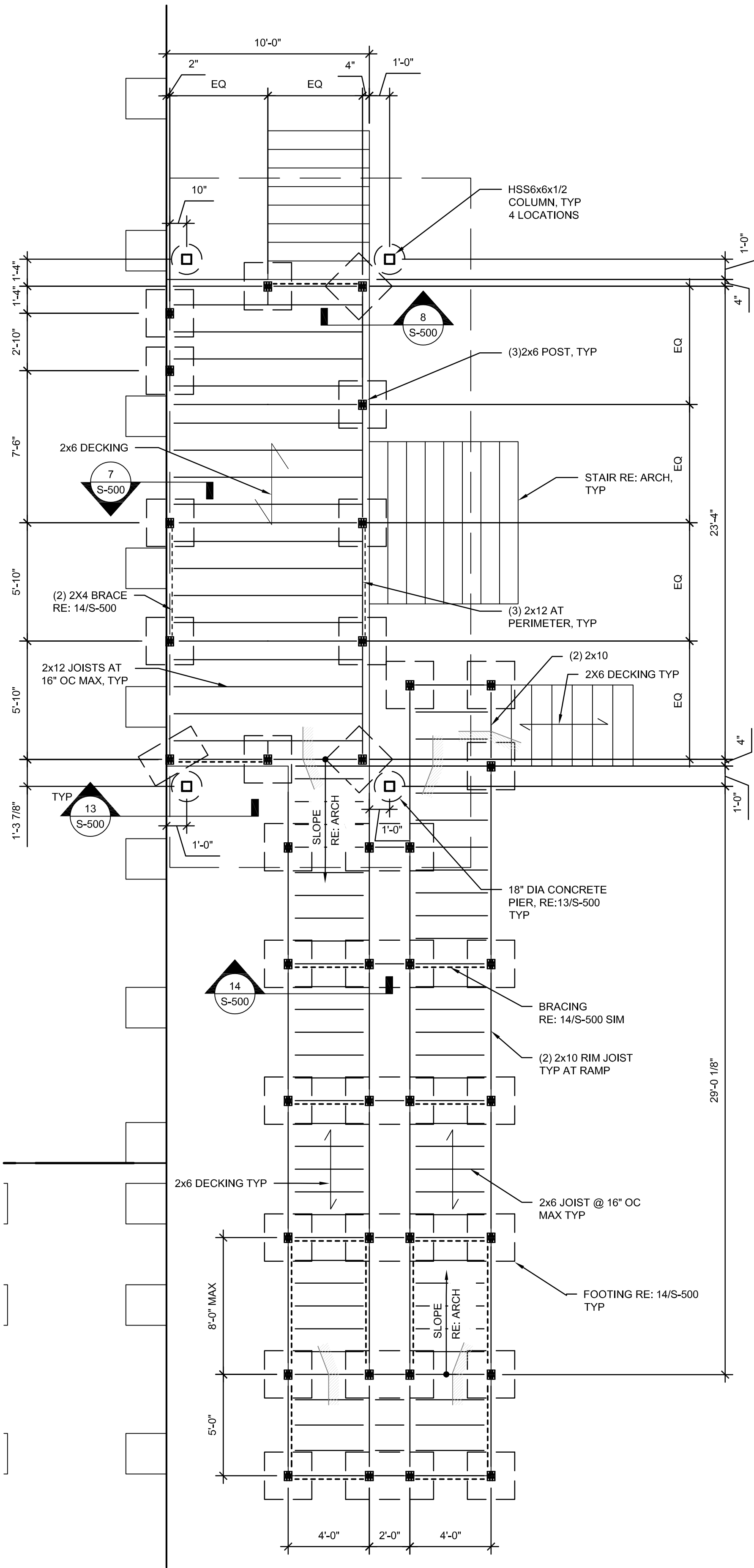
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ENTRY PORCH FOUNDATION
PLANS

SHEET NUMBER:

S-102

XXX

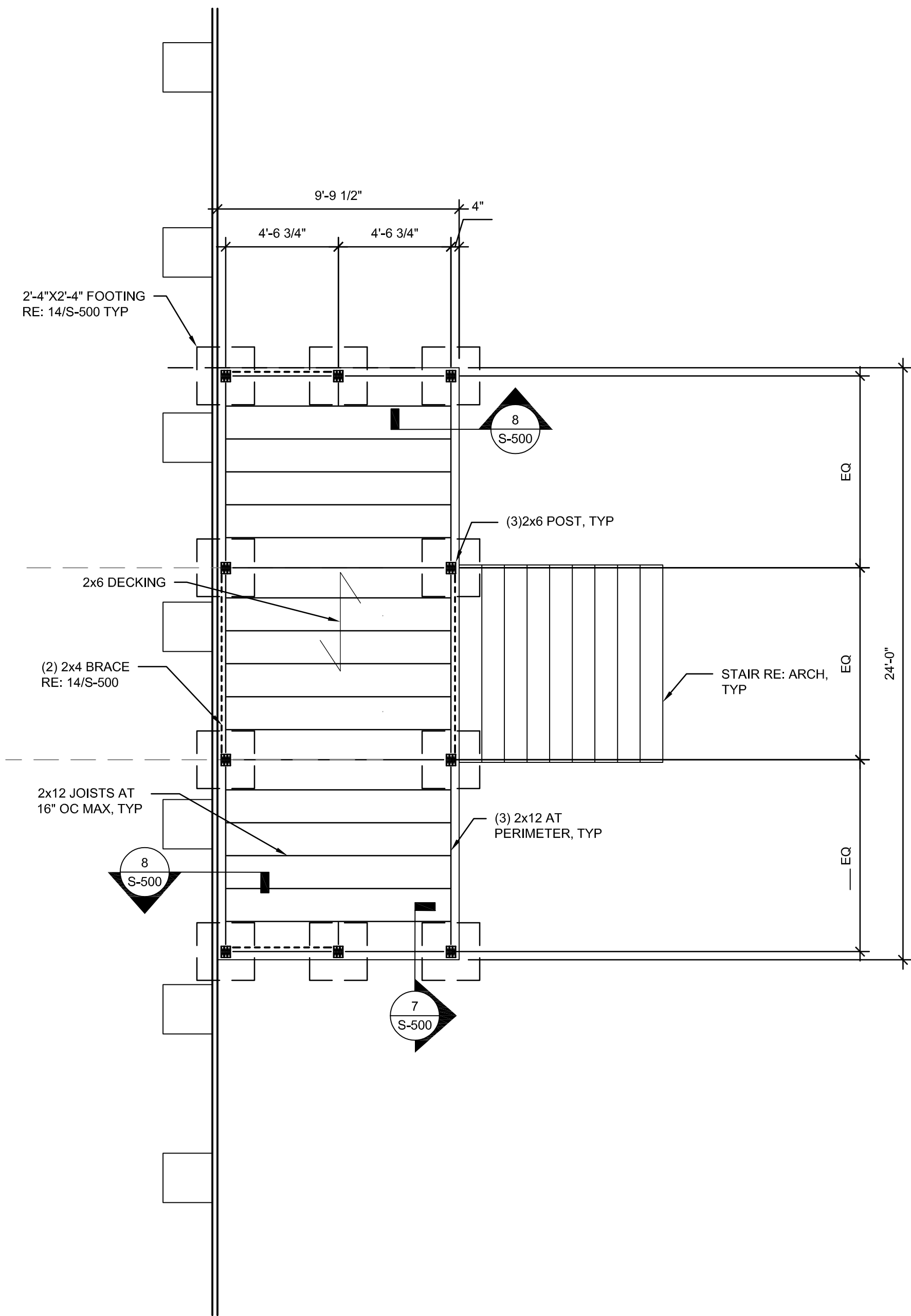


1

ENTRY PORCH AT REC COMPLEX

S-102

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

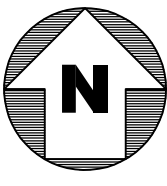
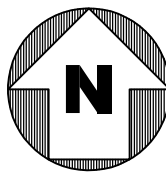


2

ENTRY PORCH AT KITCHEN/DINING BUILDING

S-102

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



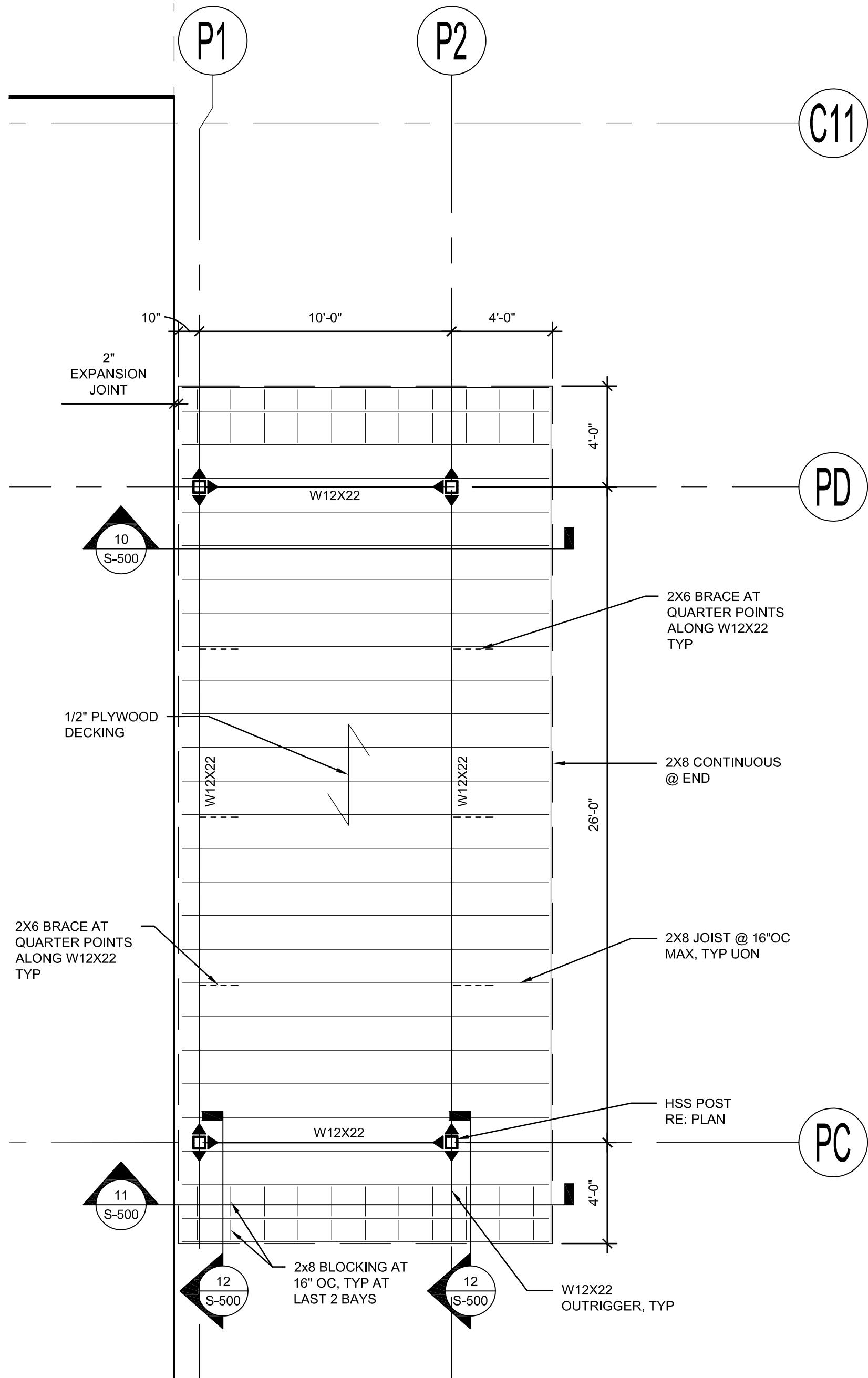
0 2' 4' 8'
SCALE: 1/4" = 1'-0"

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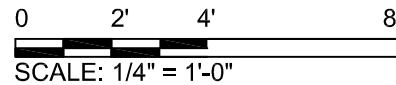
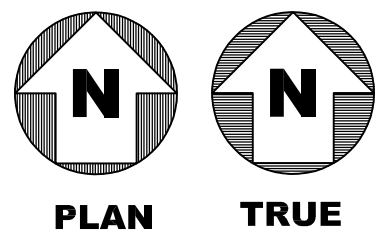
C

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A



1 CANOPY ROOF FRAMING PLAN
S-103 SCALE: 1/4" = 1'-0"



GENERAL NOTES

1. FOR ROOF ELEVATIONS RE: ARCH



CRIOLLO LODGE
1218 KIZZER LANE
JAL, NEW MEXICO 88252

PROJECT NUMBER:

WFXP7601

DATE ISSUED:

10-3-19

ISSUES:

A: FOR REVIEW ONLY	10/3/19
B: INTERIM SUBMITTAL	5/01/2019
C: 95% PROGRESS SET	6/21/2019
D: FOR CONSTRUCTION	10/03/2019

REVISIONS:

SHEET CONTENTS:

CANOPY FRAMING PLAN

SHEET NUMBER:

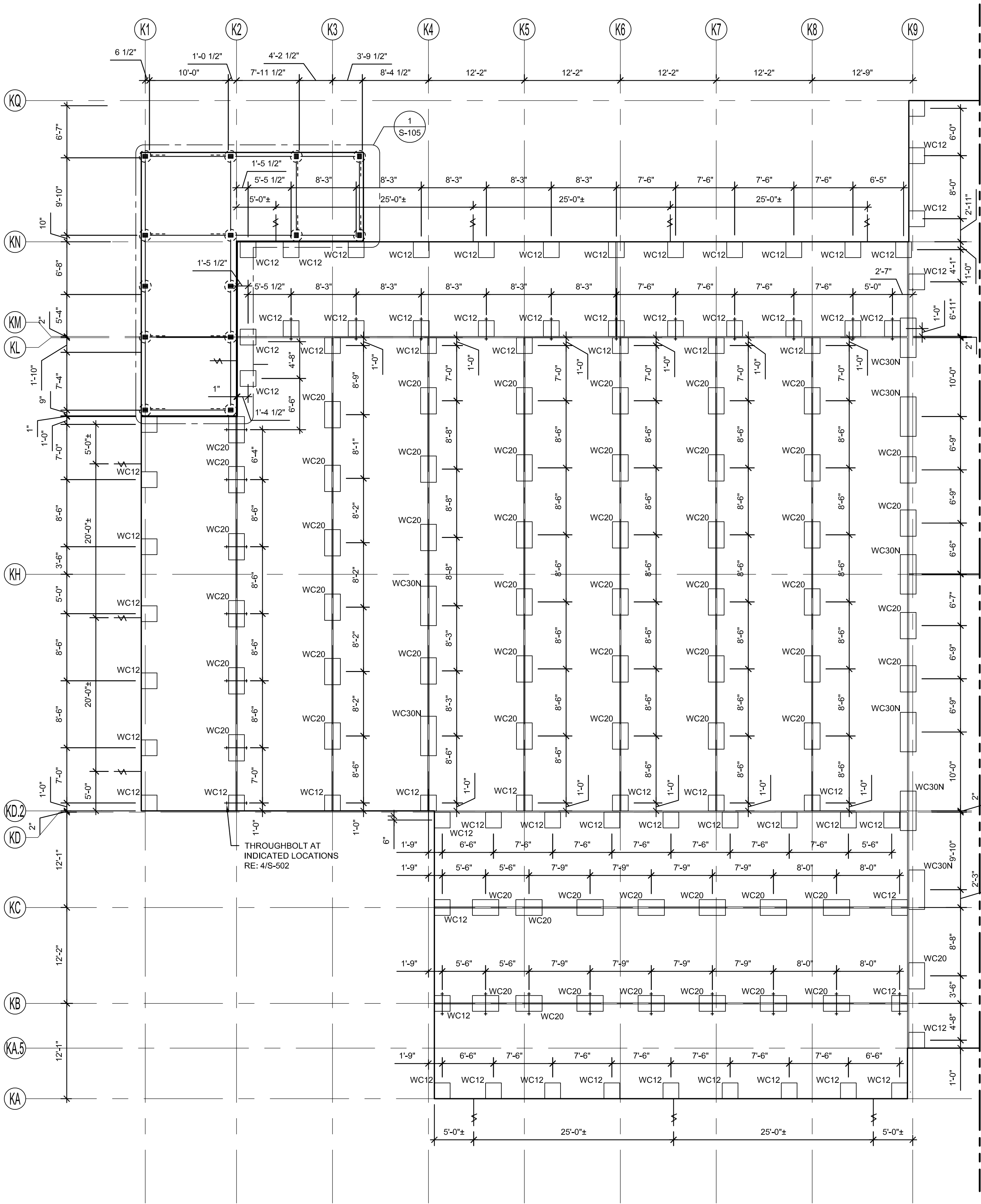
S-103

D

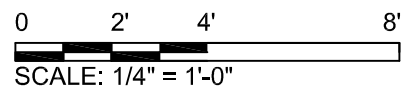
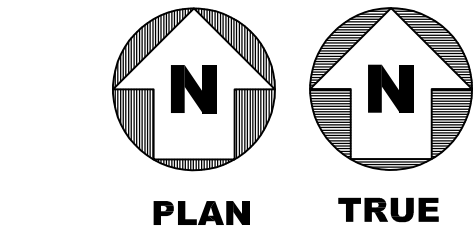
C

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1 KITCHEN/DINER FOUNDATION PLAN - NORTH END
S-104 SCALE: 1/4" = 1'-0"



GENERAL NOTES

1. WCXX INDICATES WOOD CRIBBING. RE: S-501
2. INDICATES HELICAL ANCHOR. RE: 1/S-502



CRIOLLO LODGE
1218 KIZZER LANE
JAL, NEW MEXICO 88252

PROJECT NUMBER:
WFXP7601
DATE ISSUED:
10-3-19

ISSUES:	
A: FOR REVIEW ONLY	10/3/19
B: INTERIM SUBMITTAL	5/01/2019
C: 95% PROGRESS SET	6/21/2019
D: FOR CONSTRUCTION	10/03/2019

REVISIONS:

SHEET CONTENTS:
KITCHEN - DINER
FOUNDATION PLAN

SHEET NUMBER:

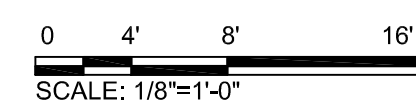
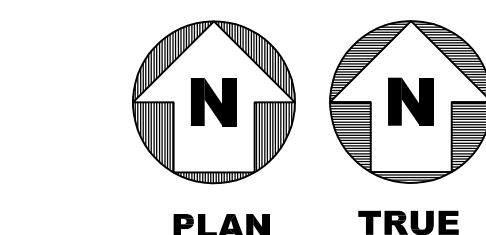
S-104

ISSUES:	
A: FOR REVIEW ONLY	10/3/19
B: INTERIM SUBMITTAL	5/01/2019
C: 95% PROGRESS SET	6/21/2019
D: FOR CONSTRUCTION	10/03/2019

S-105

XXX

1. WCXX INDICATES WOOD CRIBBING. RE: S-501
2. ~~VA~~ — INDICATES HELICAL ANCHOR. RE: 1/S-502



1 KITCHEN/DINER FOUNDATION PLAN – SOUTH END
S-105 SCALE: 1/8" = 1'-0"

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GENERAL NOTES

1. XX.Xk - INDICATES UNFACTORED AXIAL LOAD ON HELICAL PIERS (DOWNWARD). PROVIDE FOR MINIMUM UNFACTORED UPLIFT LOAD OF 1.5K AT EACH PIER LOCATION AND MINIMUM UNFACTORED HORIZONTAL LOAD OF 1350LB AT EACH PIER ADJACENT TO CENTRAL CORRIDOR (GRIDS DB & DC) AND 1250LB AT ALL OTHER PIERS, APPLIED AT UNDERSIDE OF MODULE FOUNDATION.
2. RE: S-100 FOR ORIENTATION OF MODULES AT "OH."

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10/3/2019



CRIOLLO LODGE
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JAL, NEW MEXICO 88252

PROJECT NUMBER:
WFXP7601
DATE ISSUED:
10-3-19

ISSUES:

A: FOR REVIEW ONLY	10/3/19
B: INTERIM SUBMITTAL	5/01/2019
C: 95% PROGRESS SET	6/21/2019
D: FOR CONSTRUCTION	10/03/2019

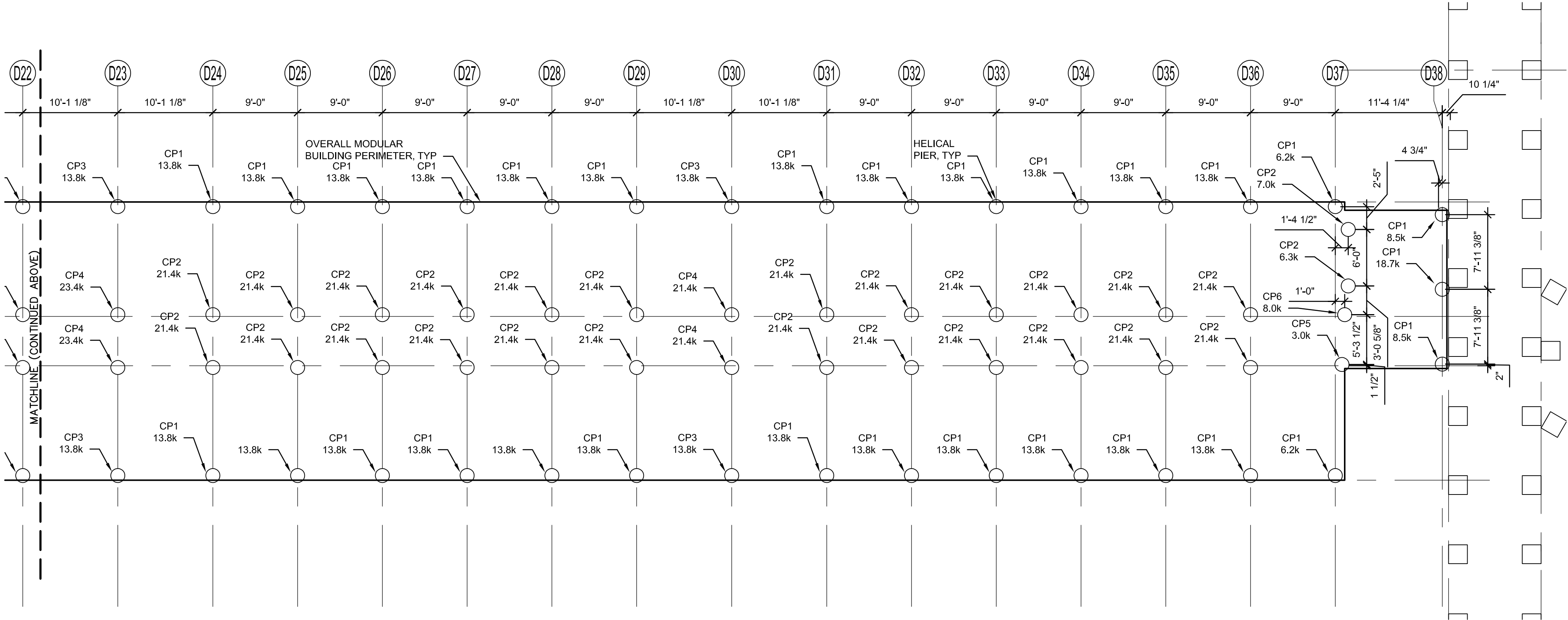
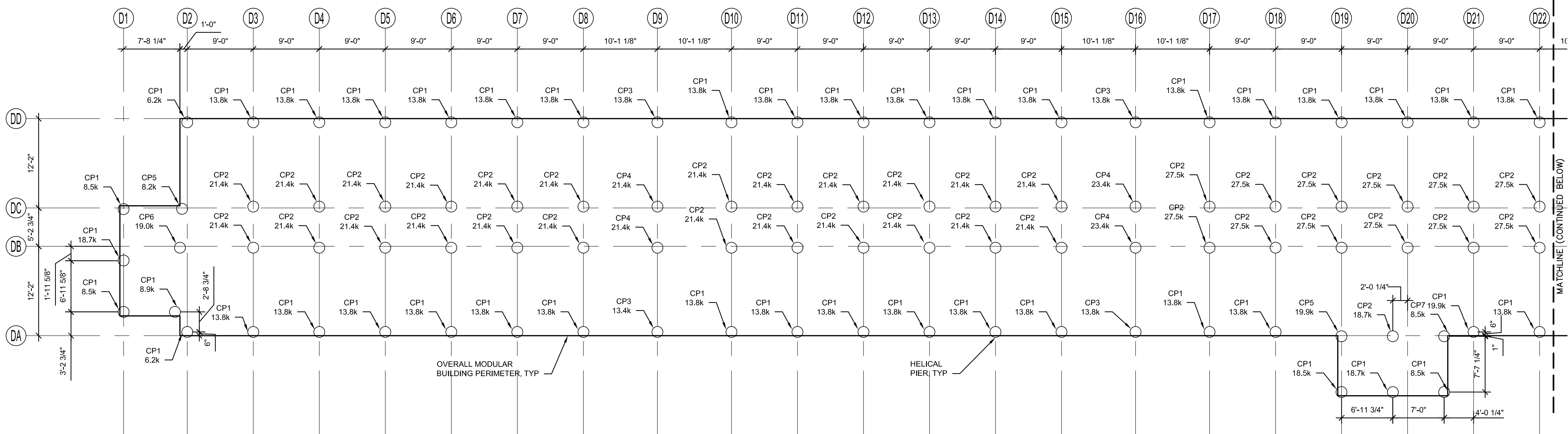
REVISIONS:

SHEET CONTENTS:
TYPICAL DORMITORY
FOUNDATION PLAN

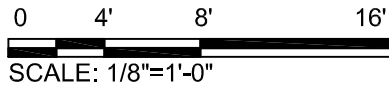
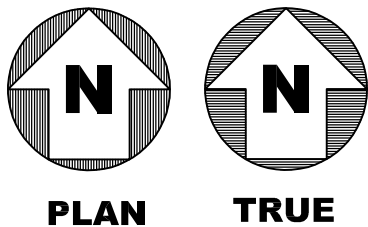
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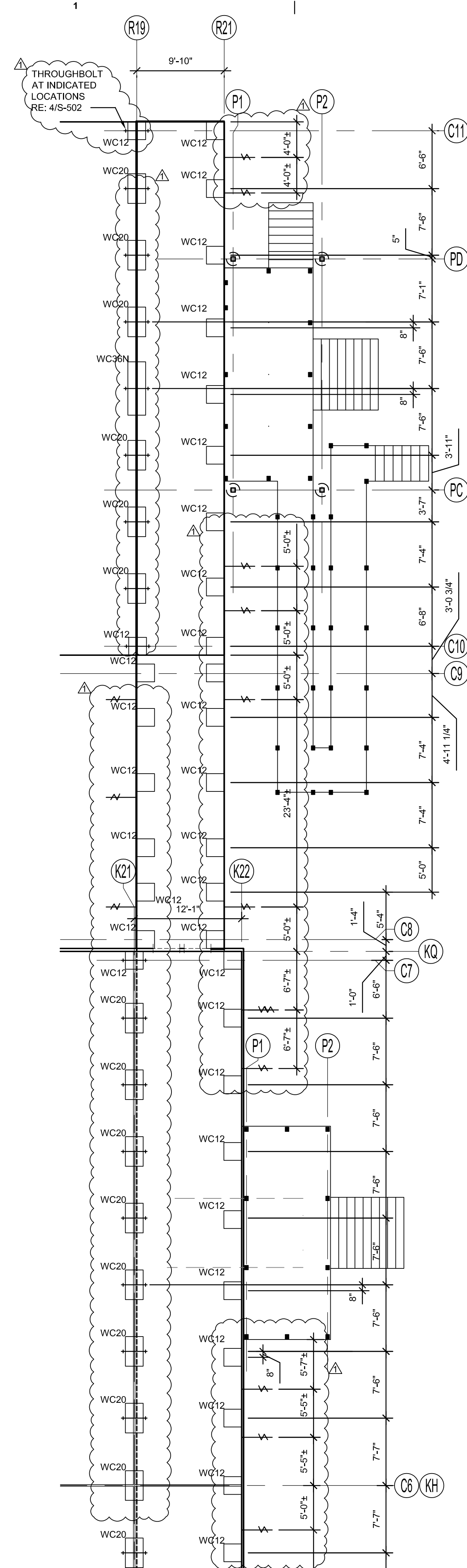
S-106

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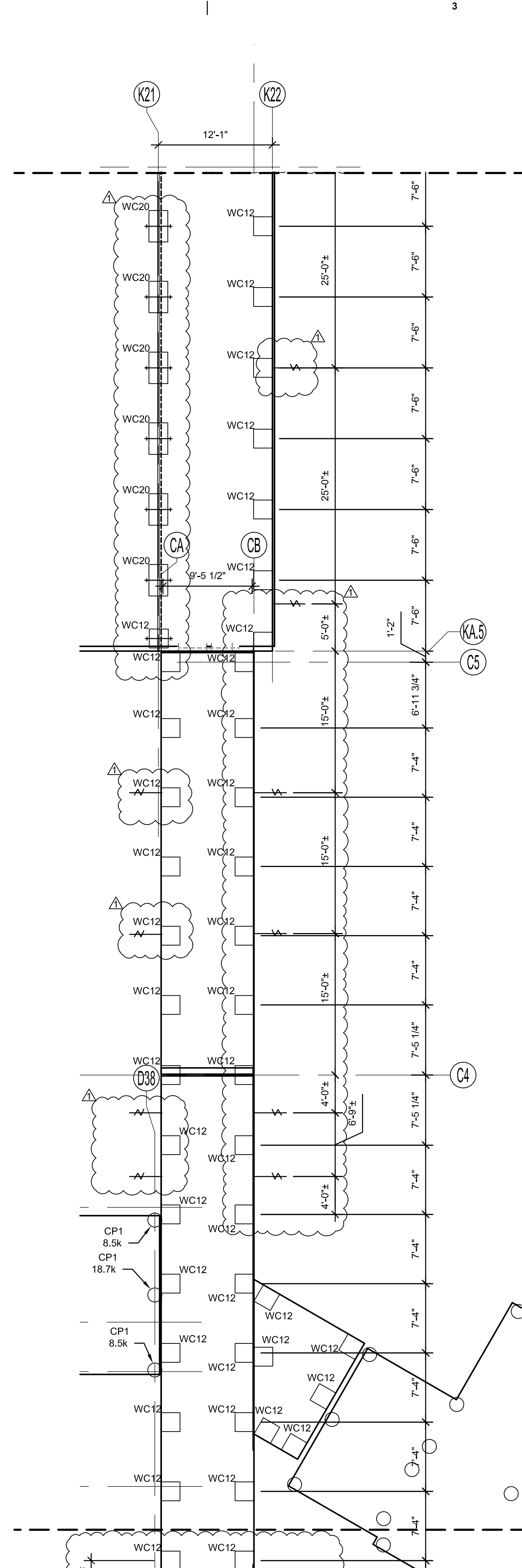


1 TYPICAL DORMITORY FOUNDATION PLAN
S-106 SCALE: 1/8" = 1'-0"

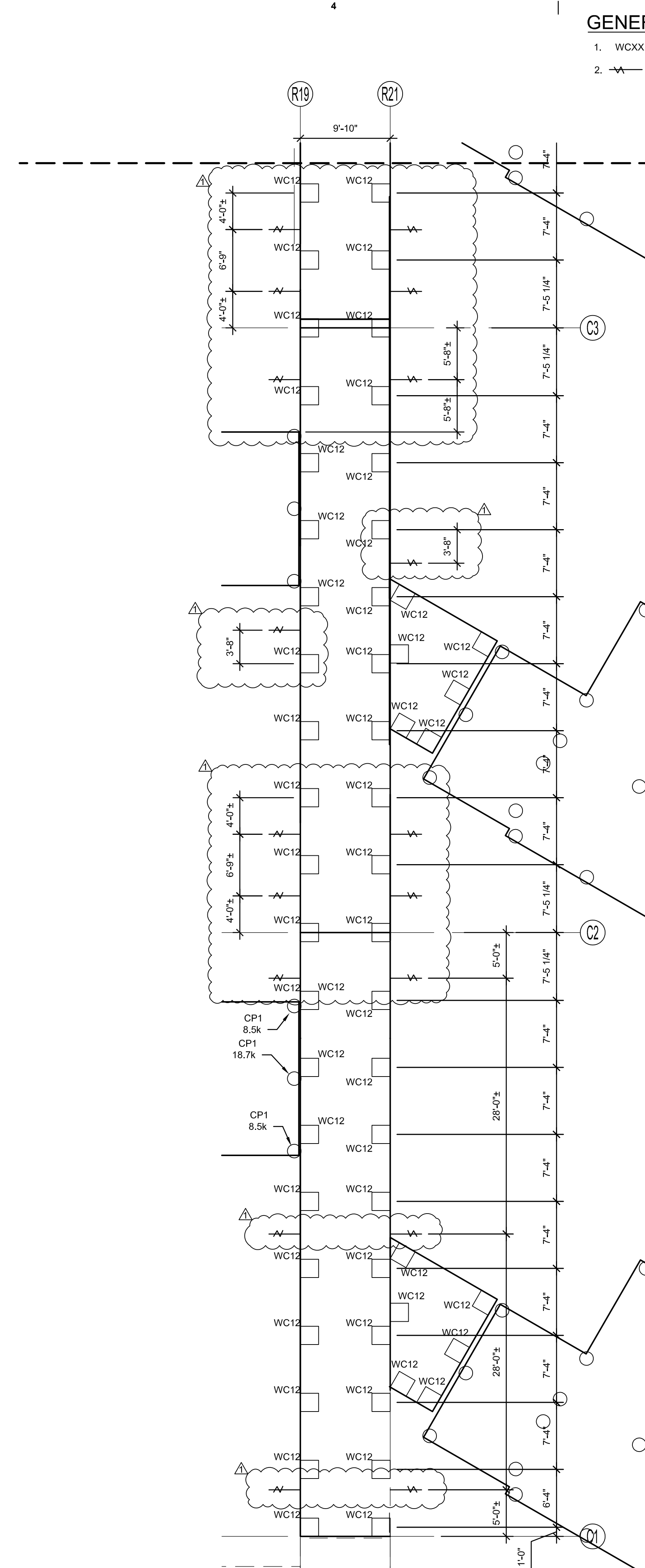




1 CORRIDOR FOUNDATION PLAN
S-106 SCALE: 1/8" = 1'-0"




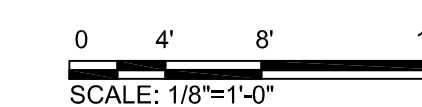
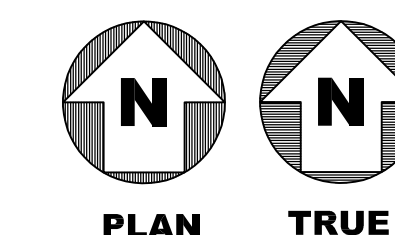
2 CORRIDOR FOUNDATION PLAN
S-106 SCALE: 1/8" = 1'-0"



3 CORRIDOR FOUNDATION PLAN
S-106 SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. WCXX INDICATES WOOD CRIBBING. RE: S-501
2.  INDICATES HELICAL ANCHOR. RE: 1/S-502



CRIOLLO LODGE
1218 KIZZER LANE
JAL, NEW MEXICO 88252

PROJECT NUMBER:
WFXP7601
DATE ISSUED:
10-3-19

ISSUES:	
A: FOR REVIEW ONLY	4/10/2019
B: INTERIM SUBMITTAL	5/01/2019
C: 95% PROGRESS SET	6/21/2019
D: FOR CONSTRUCTION	10/03/2019

REVISIONS:
 A REVISION #1 10/18/2019

SHEET CONTENTS:
CORRIDOR FOUNDATION
PLAN

SHEET NUMBER:

S-107

XXX

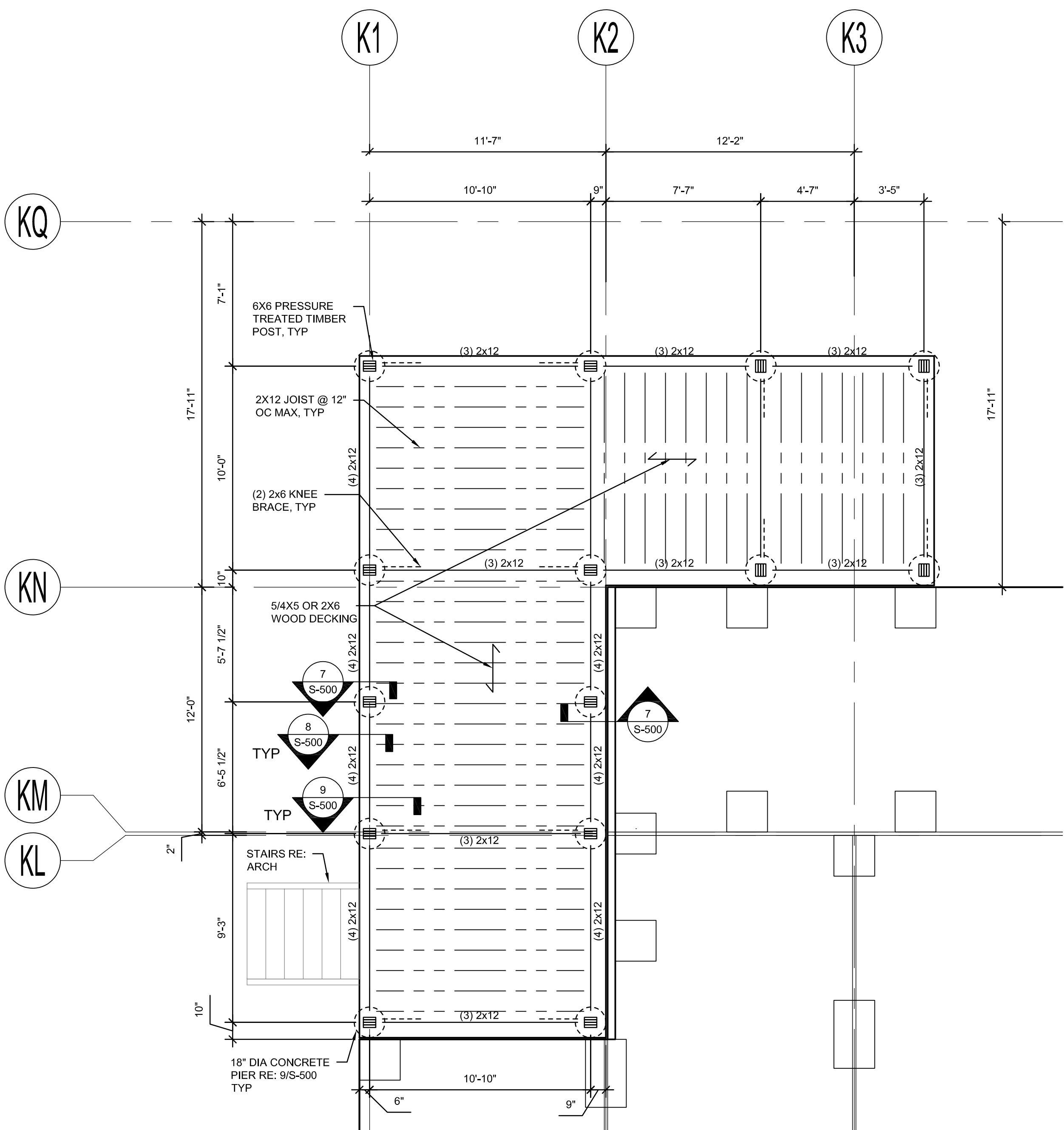
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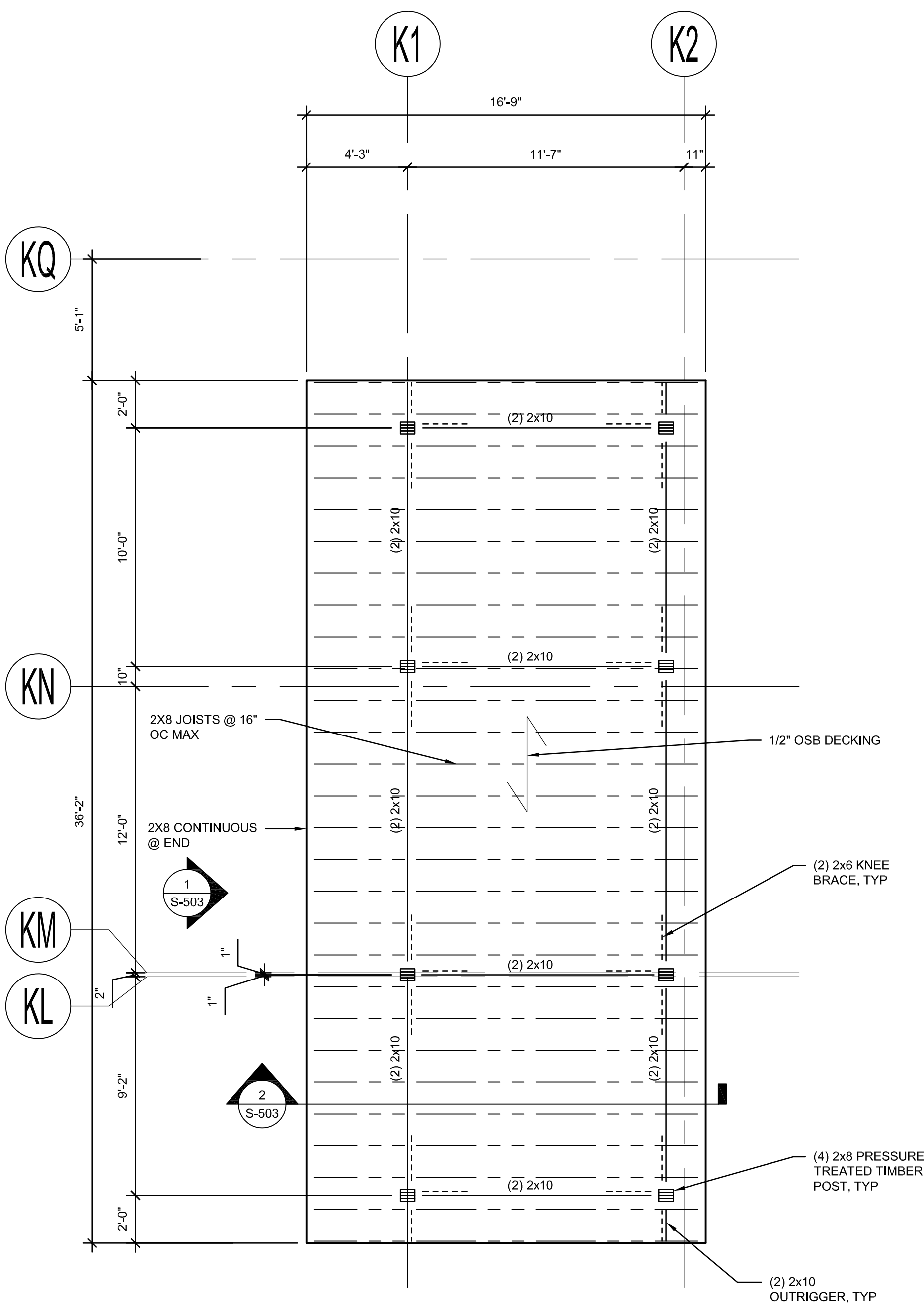
C

B

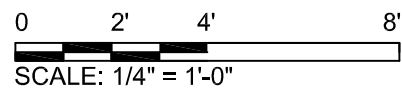
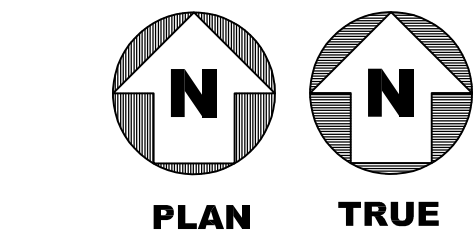
A



1 **LOADING DOCK FLOOR FRAMING**
S-108 SCALE: 1/4" = 1'-0"



2 **LOADING DOCK ROOF FRAMING**
S-108 SCALE: 1/4" = 1'-0"



CRIOLLO LODGE
1218 KIZZER LANE
JAL, NEW MEXICO 88252

PROJECT NUMBER:		
WFXP7601		
DATE ISSUED:		
10-3-19		
ISSUES:		
A: FOR REVIEW ONLY	10/3/19	
B: INTERIM SUBMITTAL	5/01/2019	
C: 95% PROGRESS SET	6/21/2019	
D: FOR CONSTRUCTION	10/03/2019	

REVISIONS:	

SHEET CONTENTS:
LOADING DOCK FRAMING

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GENERAL NOTES

1. RE: S-107 FOR LOCATION OF CRIBBING FOUNDATION.
2. RE: 6/S-502 FOR FRAMED OPENING AT ROOF PENETRATIONS.

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LODGES

CRIOLLO LODGE

1218 KIZZER LANE

JAL, NEW MEXICO 88252

PROJECT NUMBER:
WFXP7601

DATE ISSUED:
10-3-19

ISSUES:
A: FOR REVIEW ONLY 10/3/19
B: INTERIM SUBMITTAL 5/01/2019
C: 95% PROGRESS SET 6/21/2019
D: FOR CONSTRUCTION 10/03/2019

REVISIONS:

SHEET CONTENTS:
SITE-BUILT CORRIDOR ROOF
AND FLOOR FRAMING PLANS

SHEET NUMBER:
S-109

XXX

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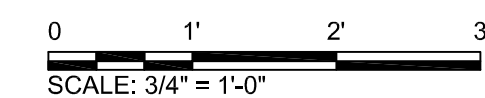


CRIOLLO LODGE
1218 KIZZER LANE
JAL, NEW MEXICO 88252

10-3-19

D: FOR CONSTRUCTION 10/03/2019

S-300



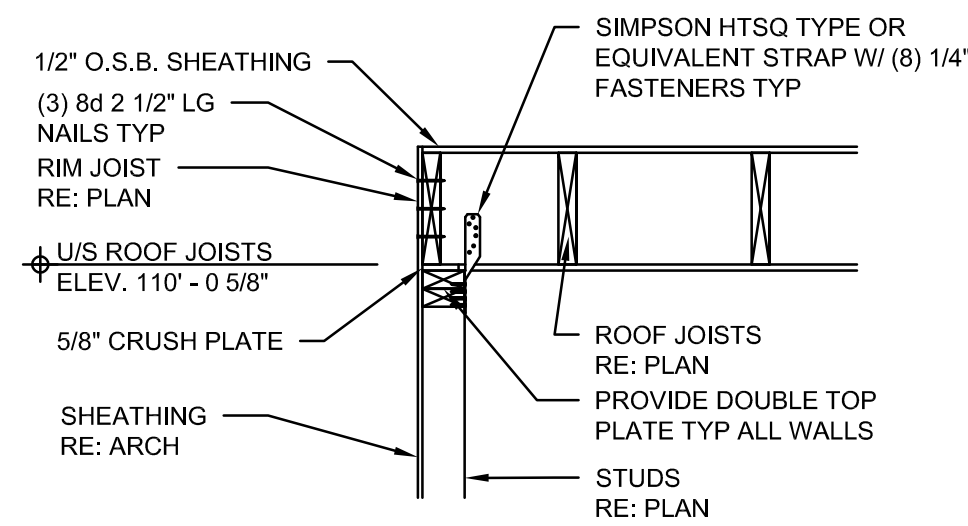
4 SECTION
S-300 SCALE: N.T.S.

D

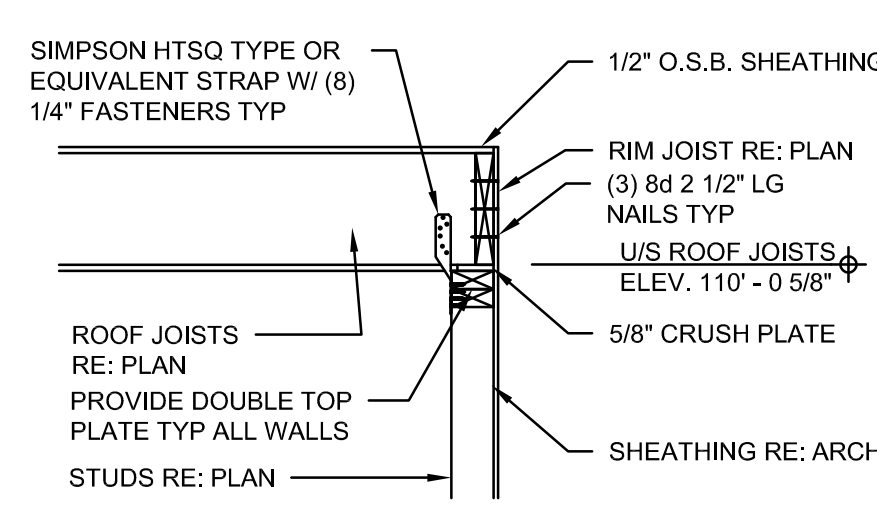
C

B

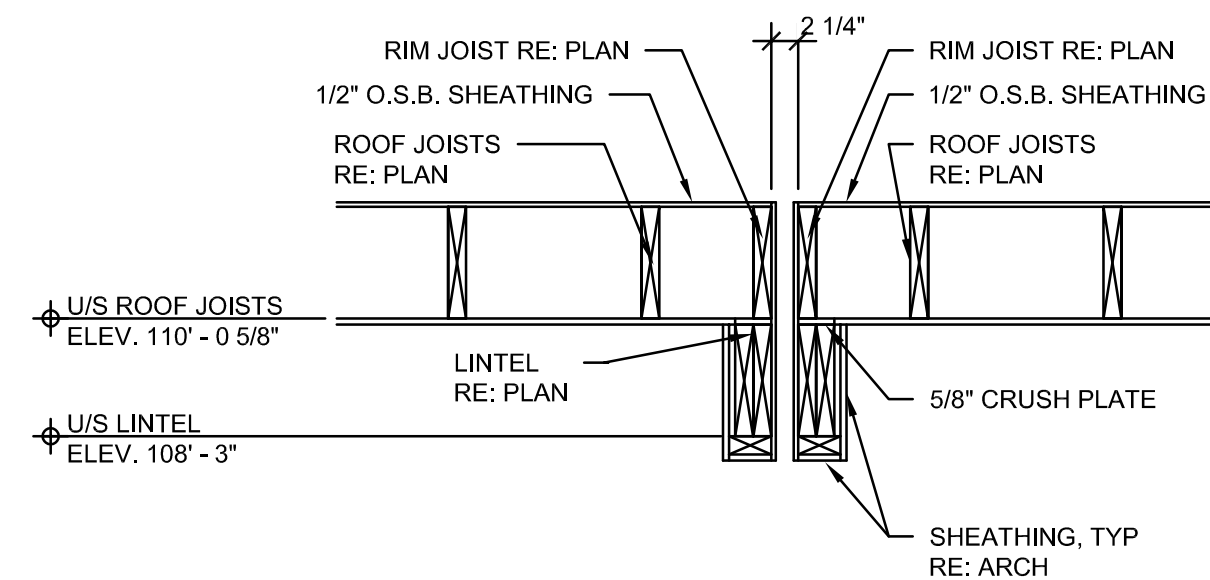
A



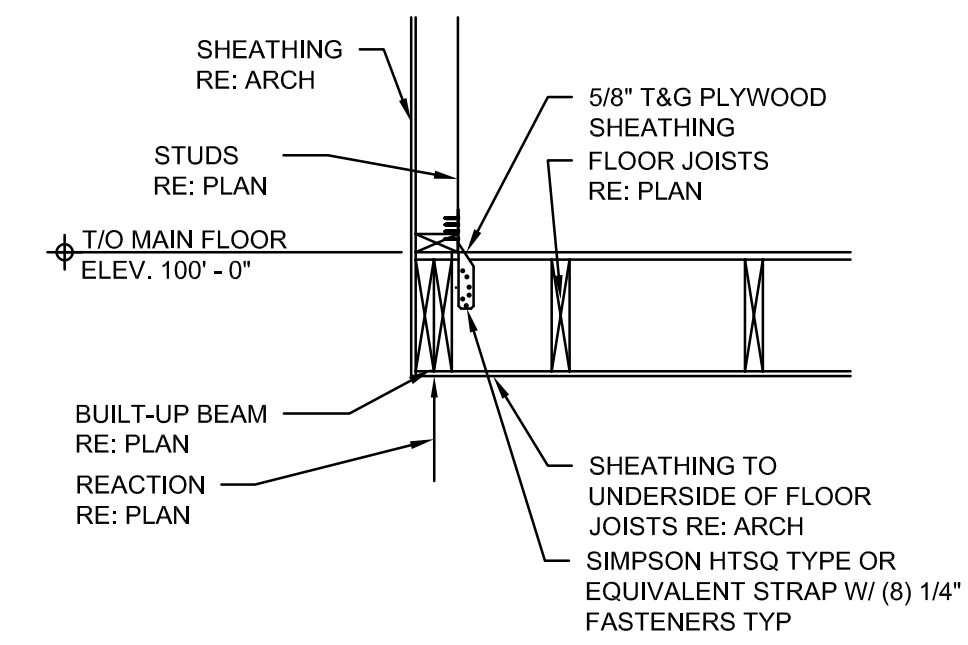
1 SITE BUILD MODULE
ROOF FRAMING DETAIL
SCALE: 3/4" = 1'-0"



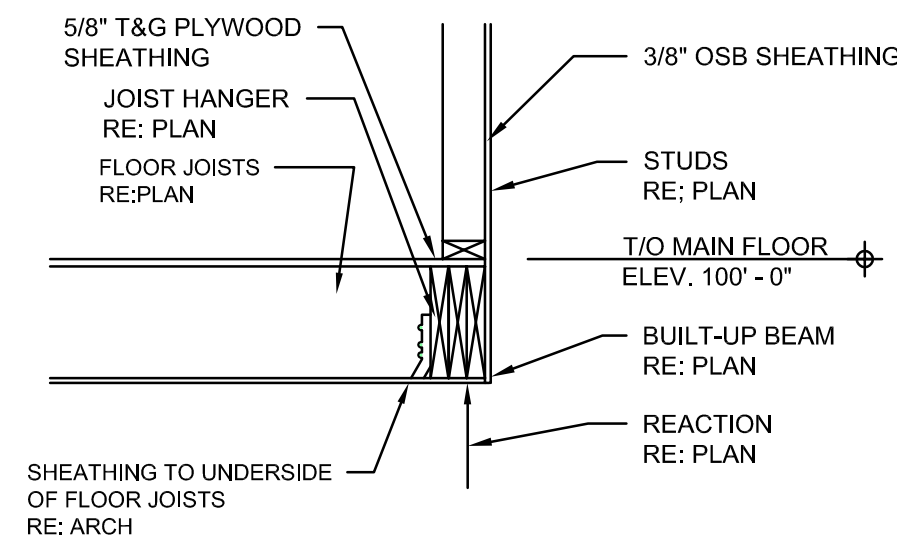
2 ROOF FRAMING DETAIL
SCALE: 3/4" = 1'-0"



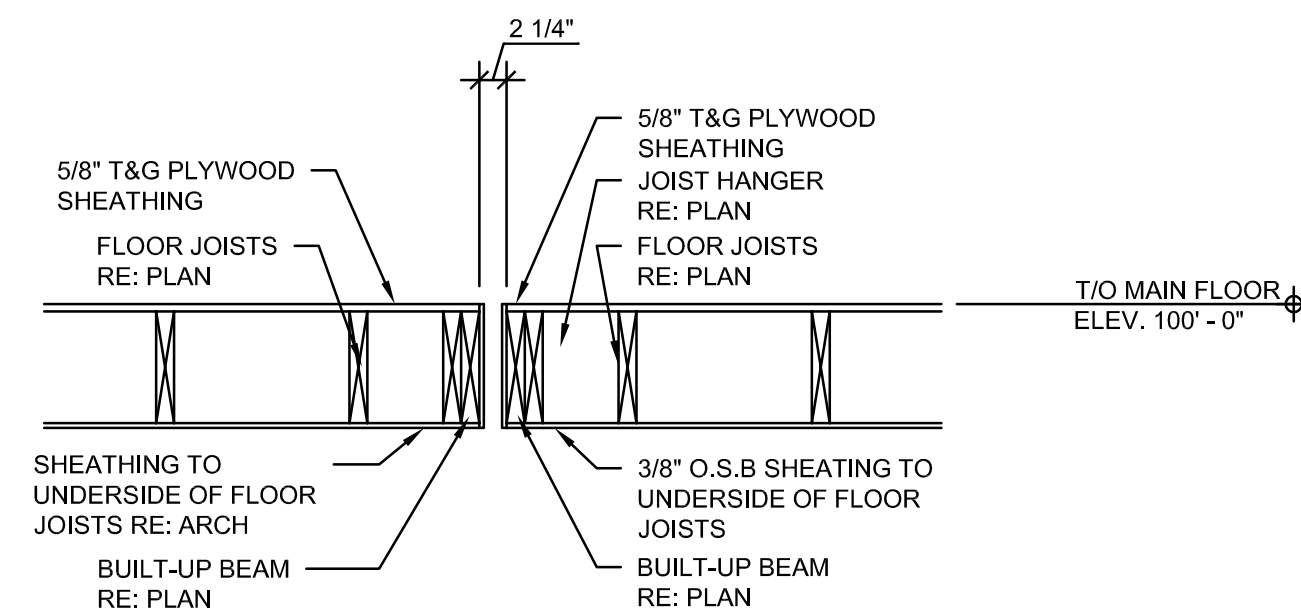
3 ROOF FRAMING DETAIL
SCALE: 3/4" = 1'-0"



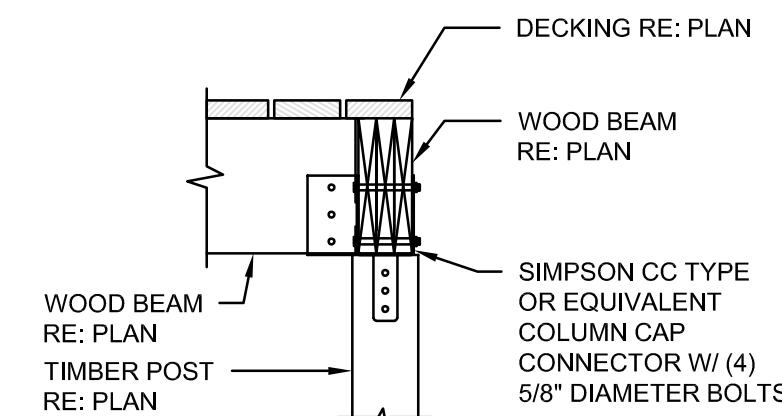
4 FLOOR FRAMING DETAIL
SCALE: 3/4" = 1'-0"



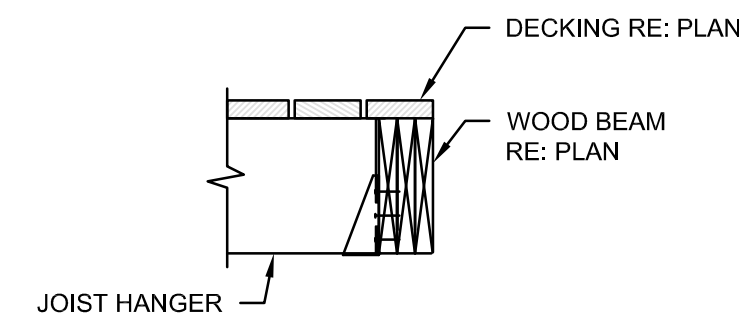
5 FLOOR FRAMING DETAIL
SCALE: 3/4" = 1'-0"



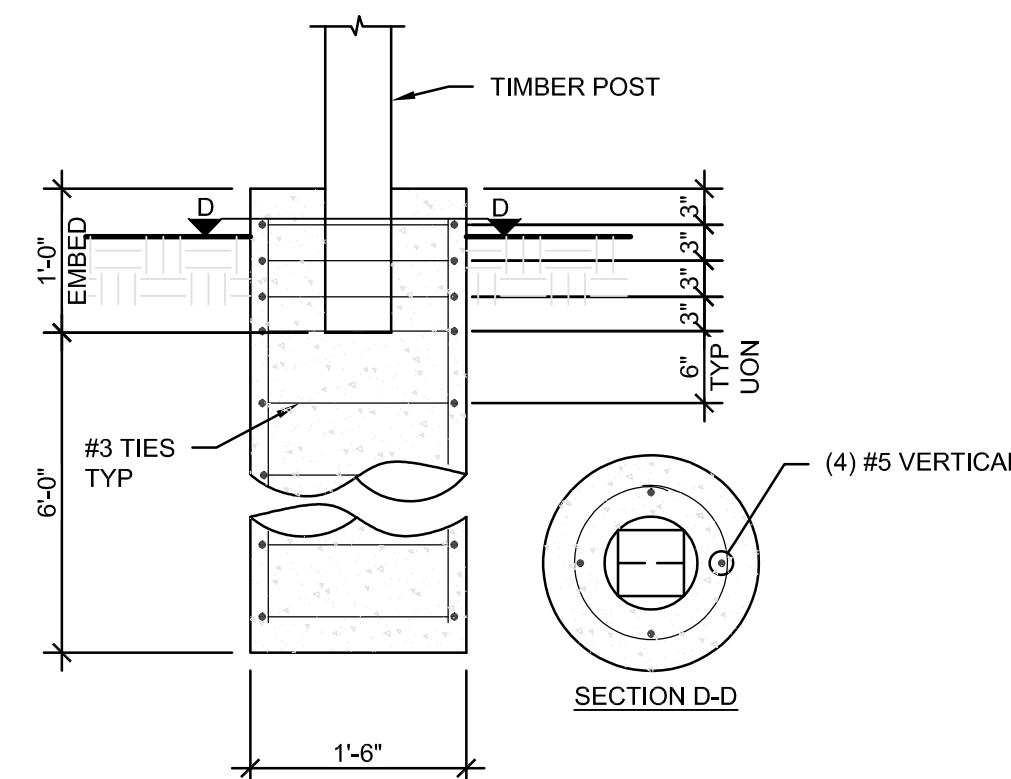
6 FLOOR FRAMING DETAIL
SCALE: 3/4" = 1'-0"



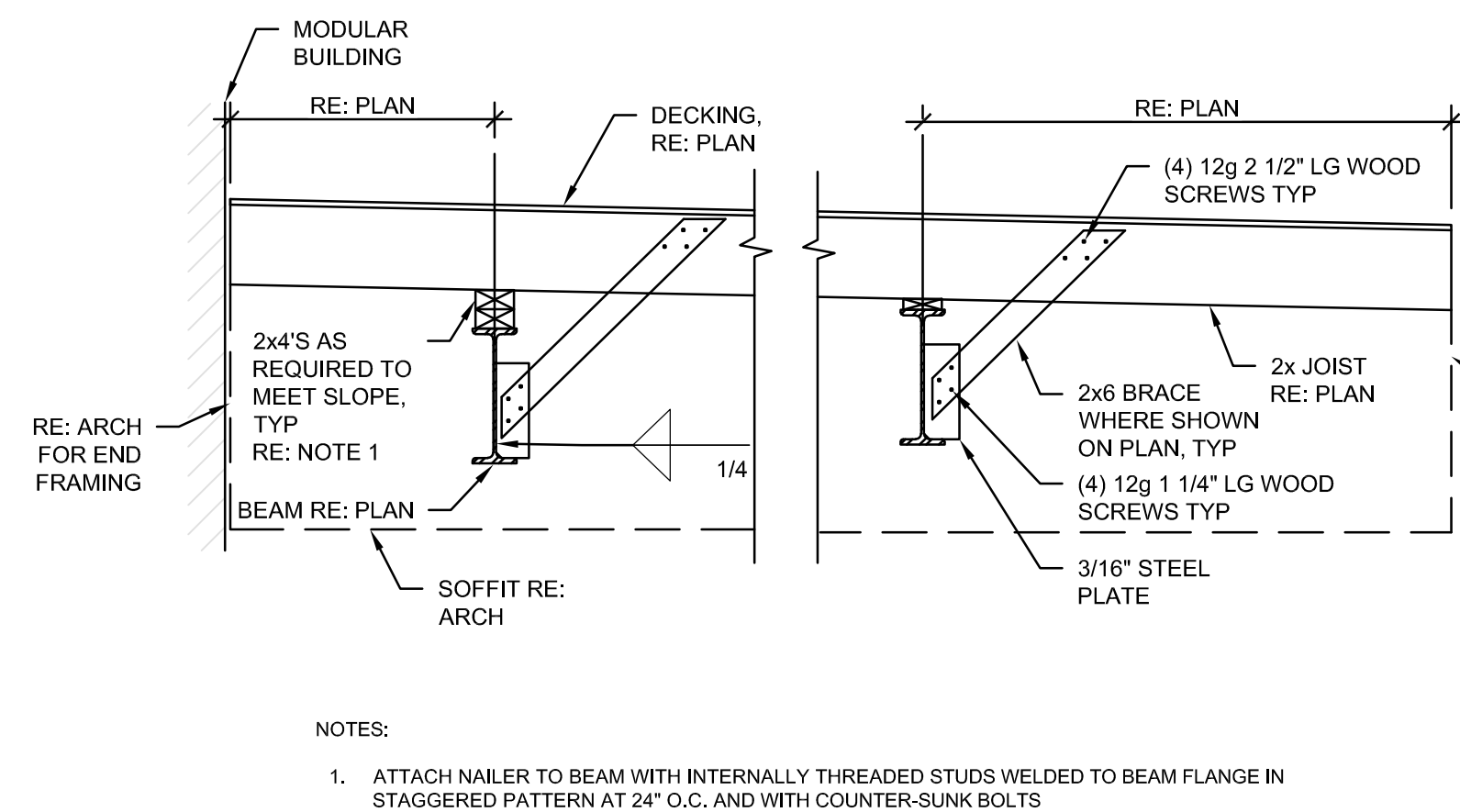
7 TYPICAL COLUMN CAP
SCALE: 3/4" = 1'-0"



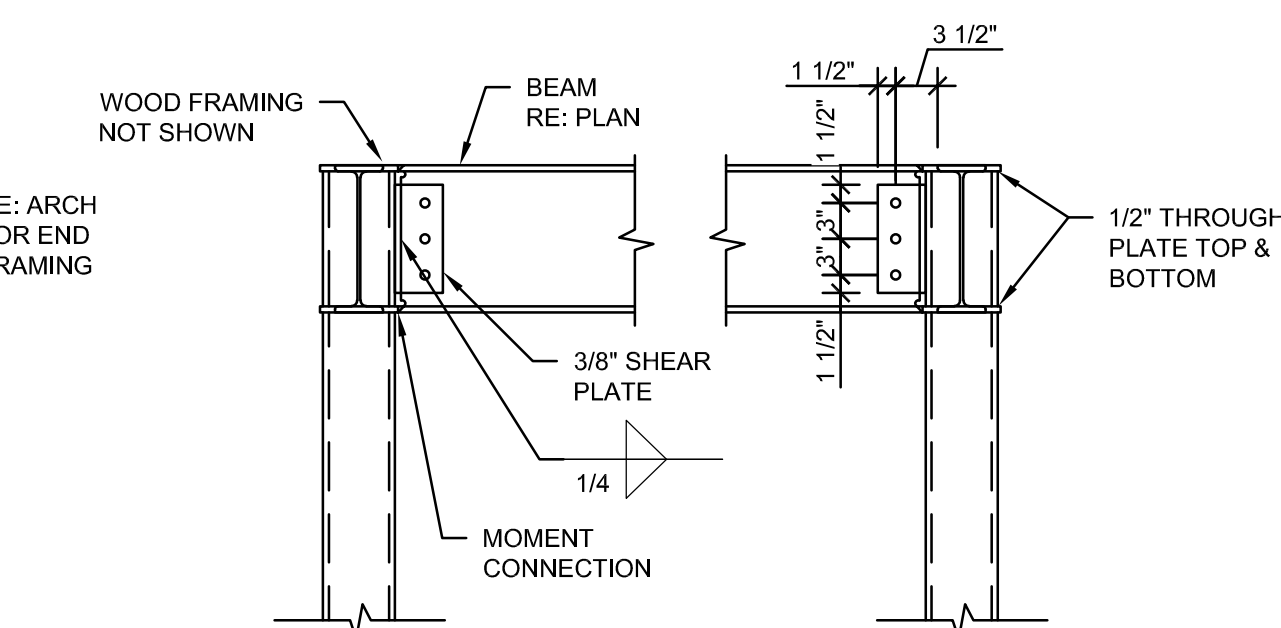
8 TYPICAL JOIST HANGER
SCALE: 3/4" = 1'-0"



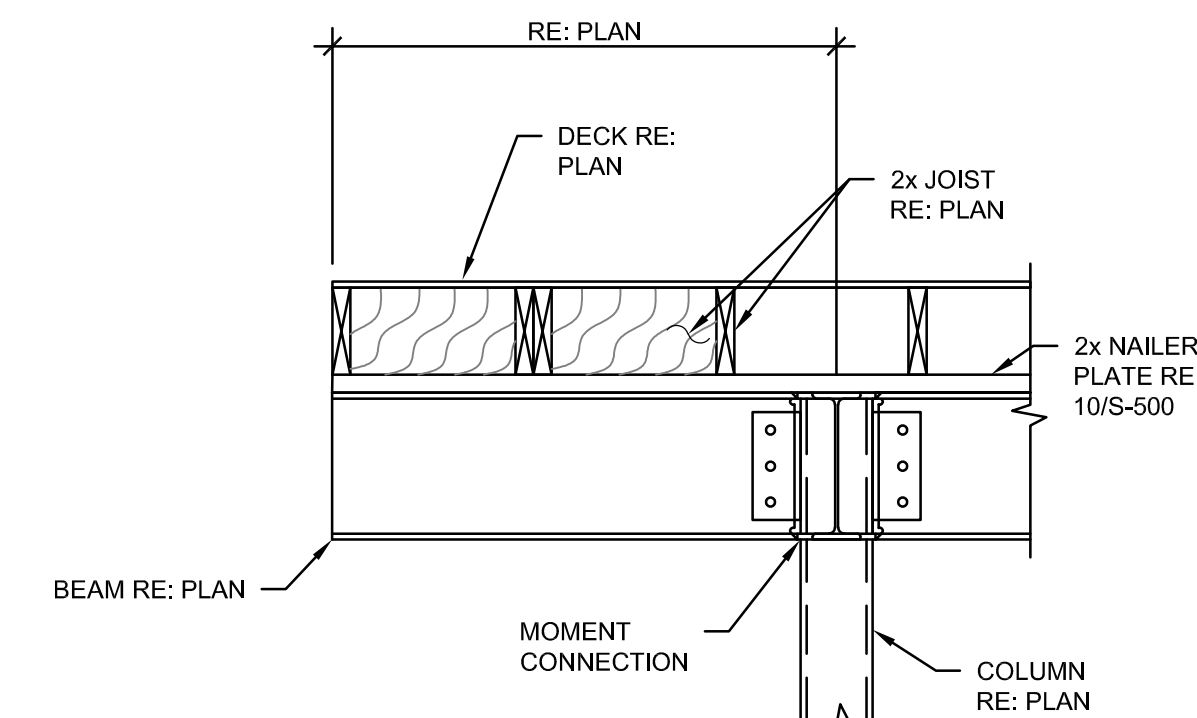
9 TYPICAL POST BASE
SCALE: 3/4" = 1'-0"



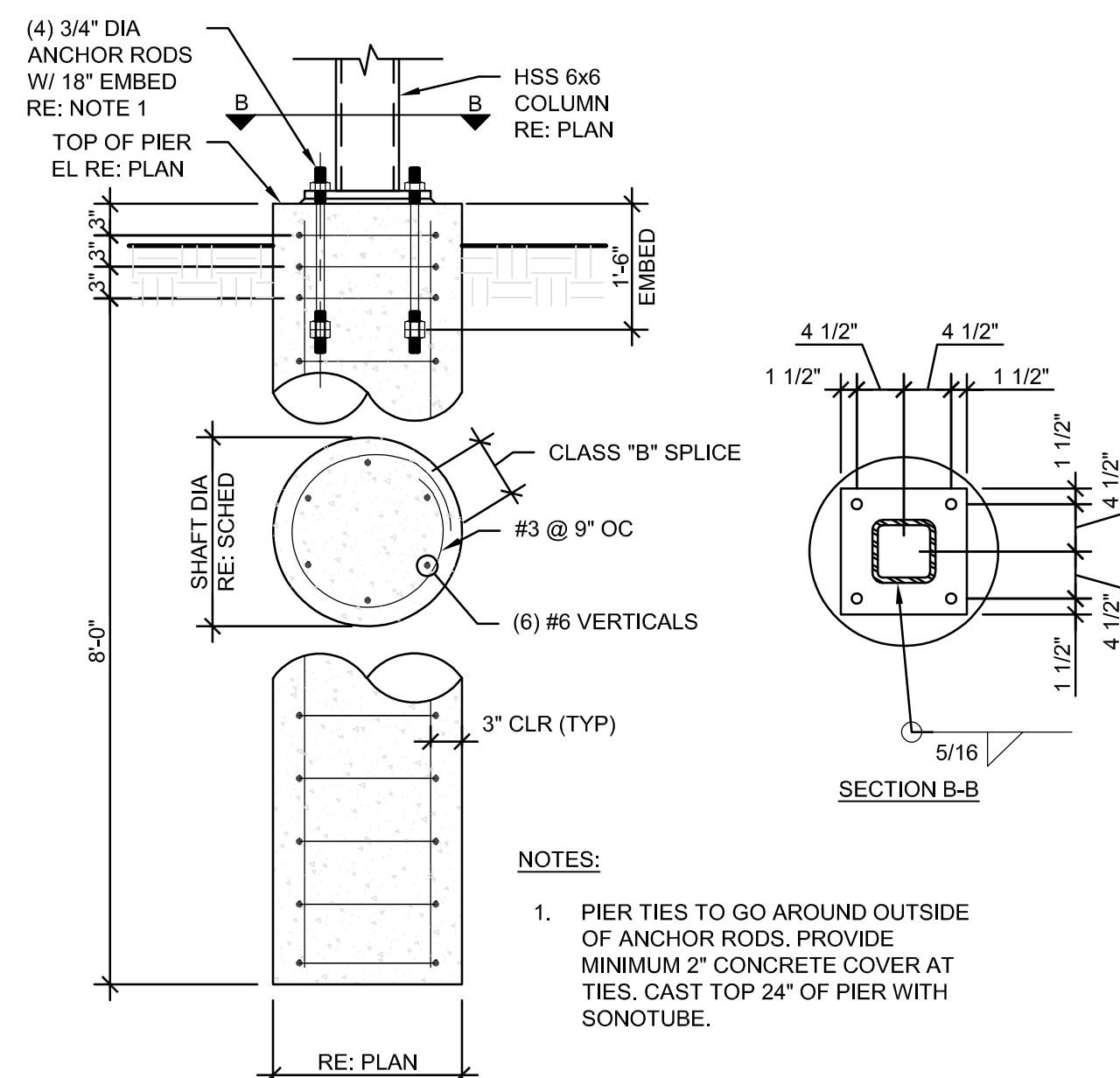
10 SECTION
SCALE: 3/4" = 1'-0"



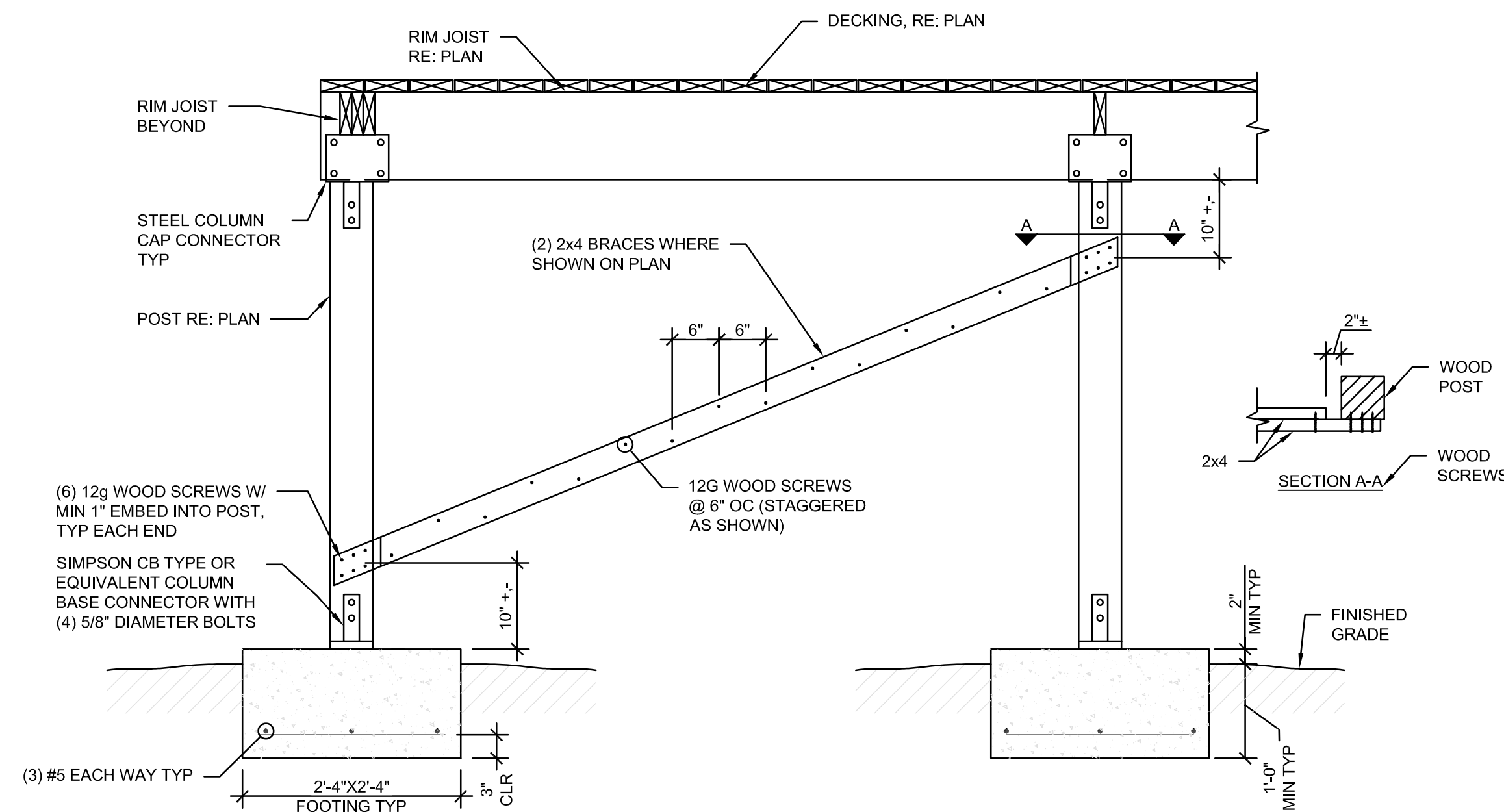
11 SECTION
SCALE: 3/4" = 1'-0"



12 SECTION
SCALE: 3/4" = 1'-0"



13 TYPICAL DRILLED PIER DETAIL
SCALE: 3/4" = 1'-0"



14 PORCH ELEVATION
SCALE: 3/4" = 1'-0"

0 1' 2' 3'
SCALE: 3/4" = 1'-0"

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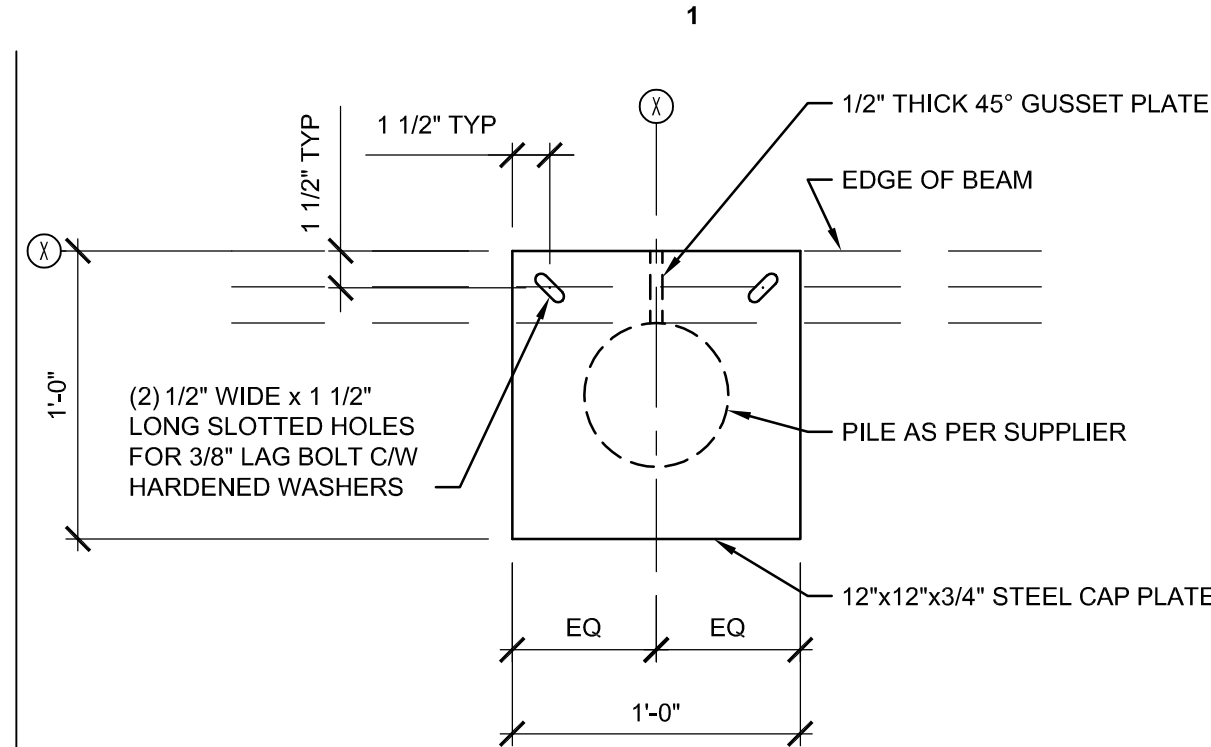
REVISIONS:

SHEET CONTENTS:
FRAMING DETAILS

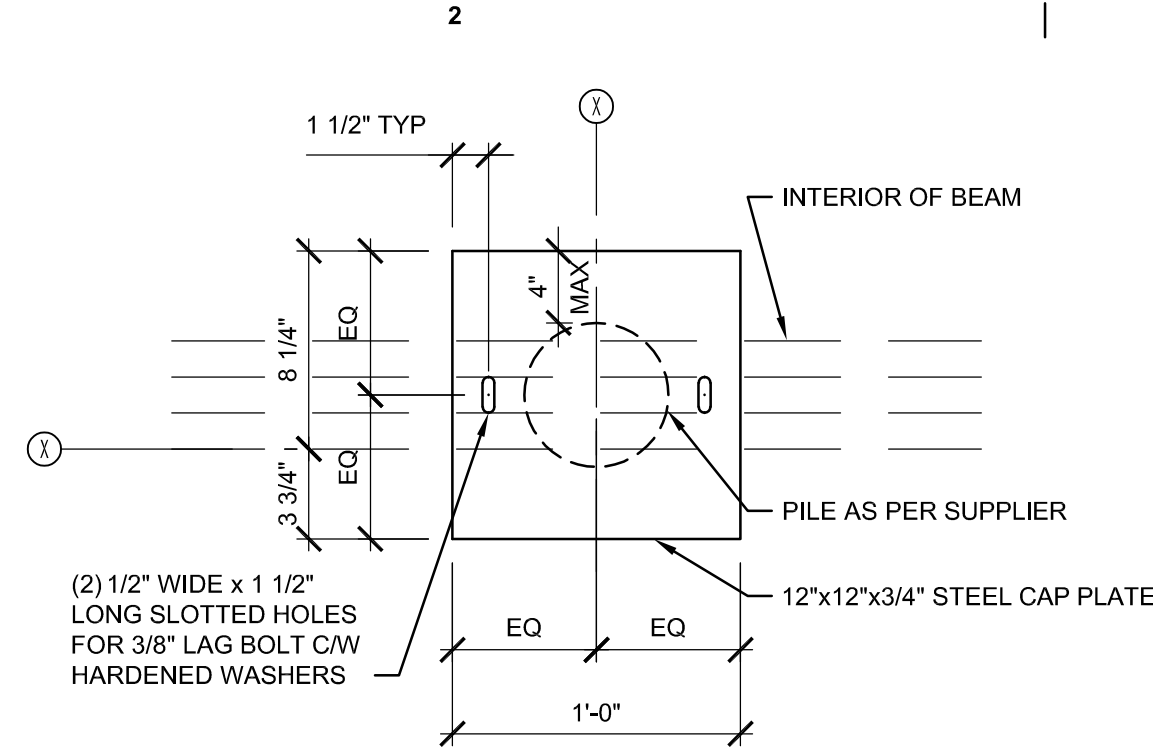
SHEET NUMBER:

S-500

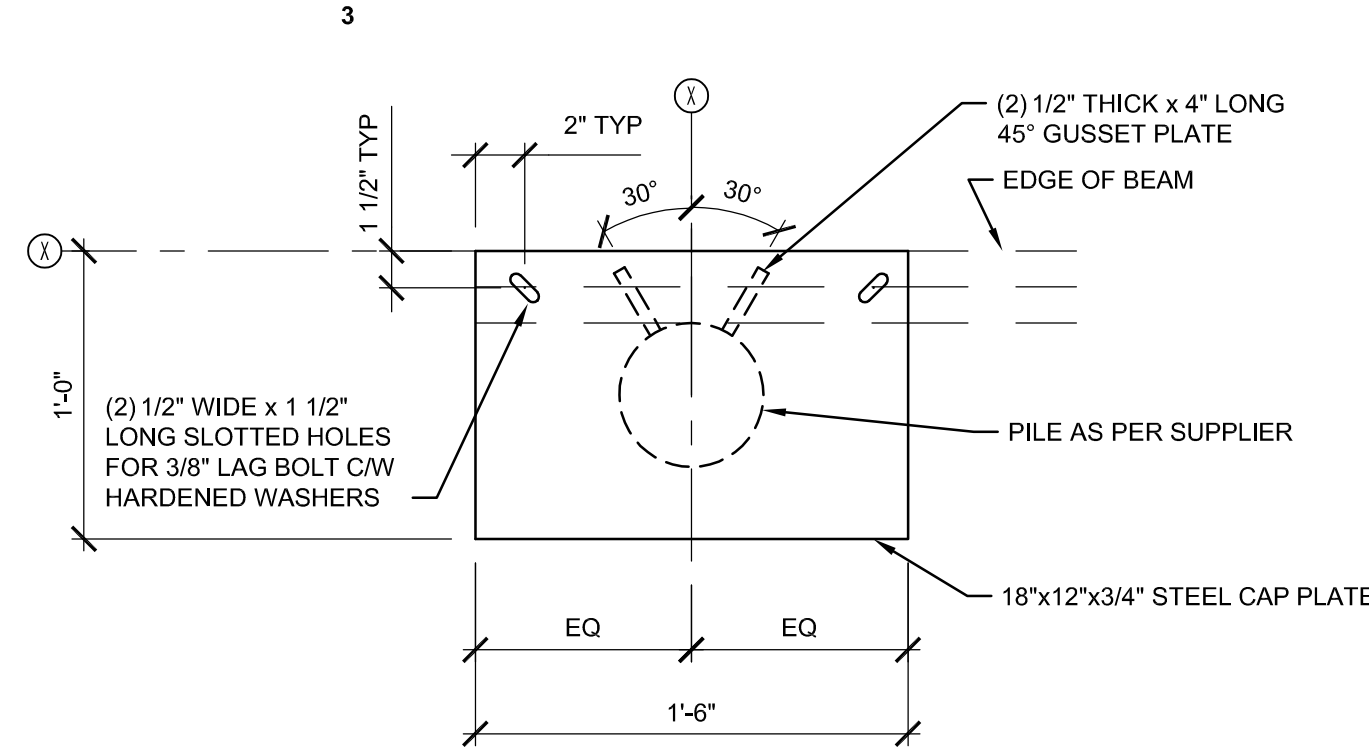
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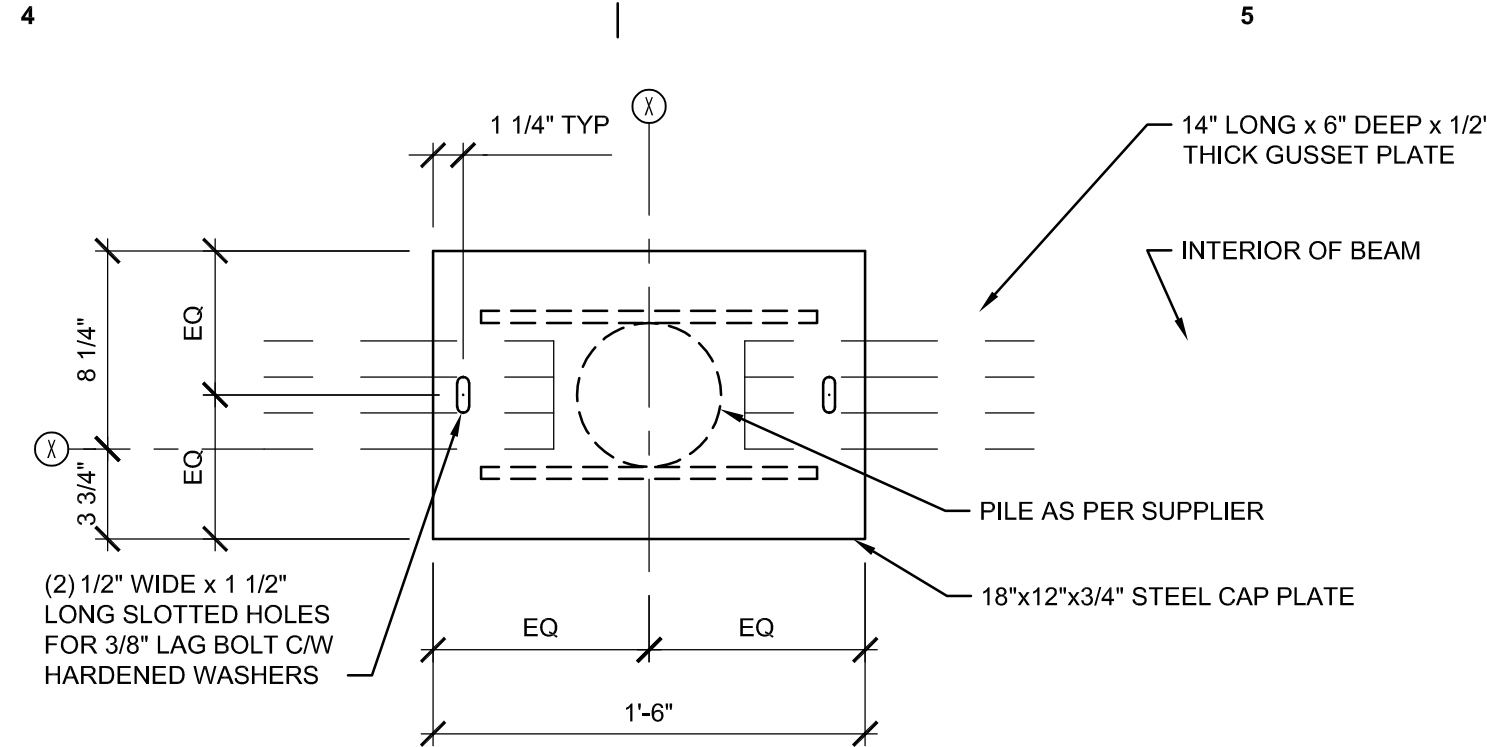
1 CAP PLATE 'CP1' DETAIL
S-501 SCALE: N.T.S.



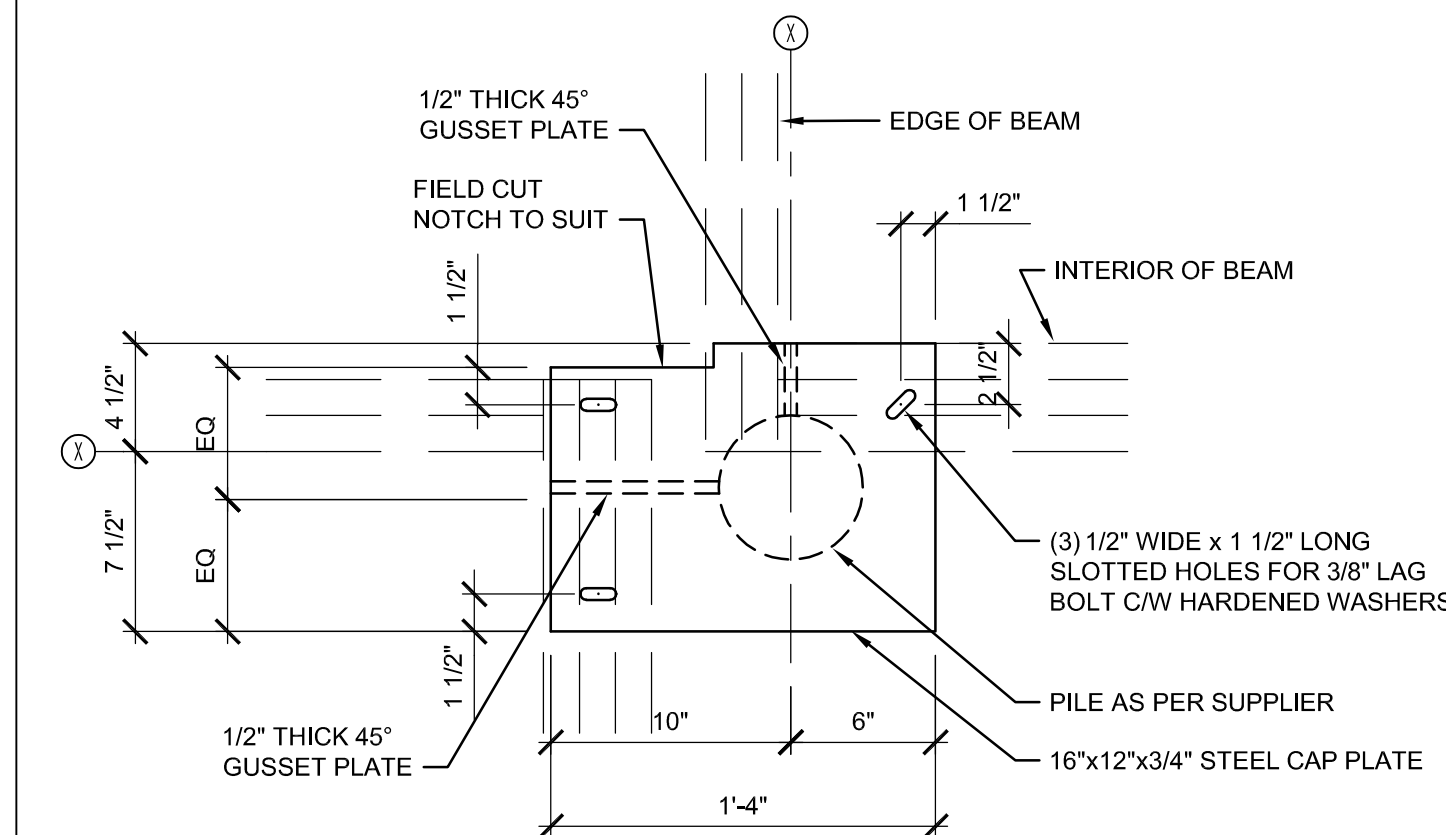
2 CAP PLATE 'CP2' DETAIL
S-501 SCALE: N.T.S.



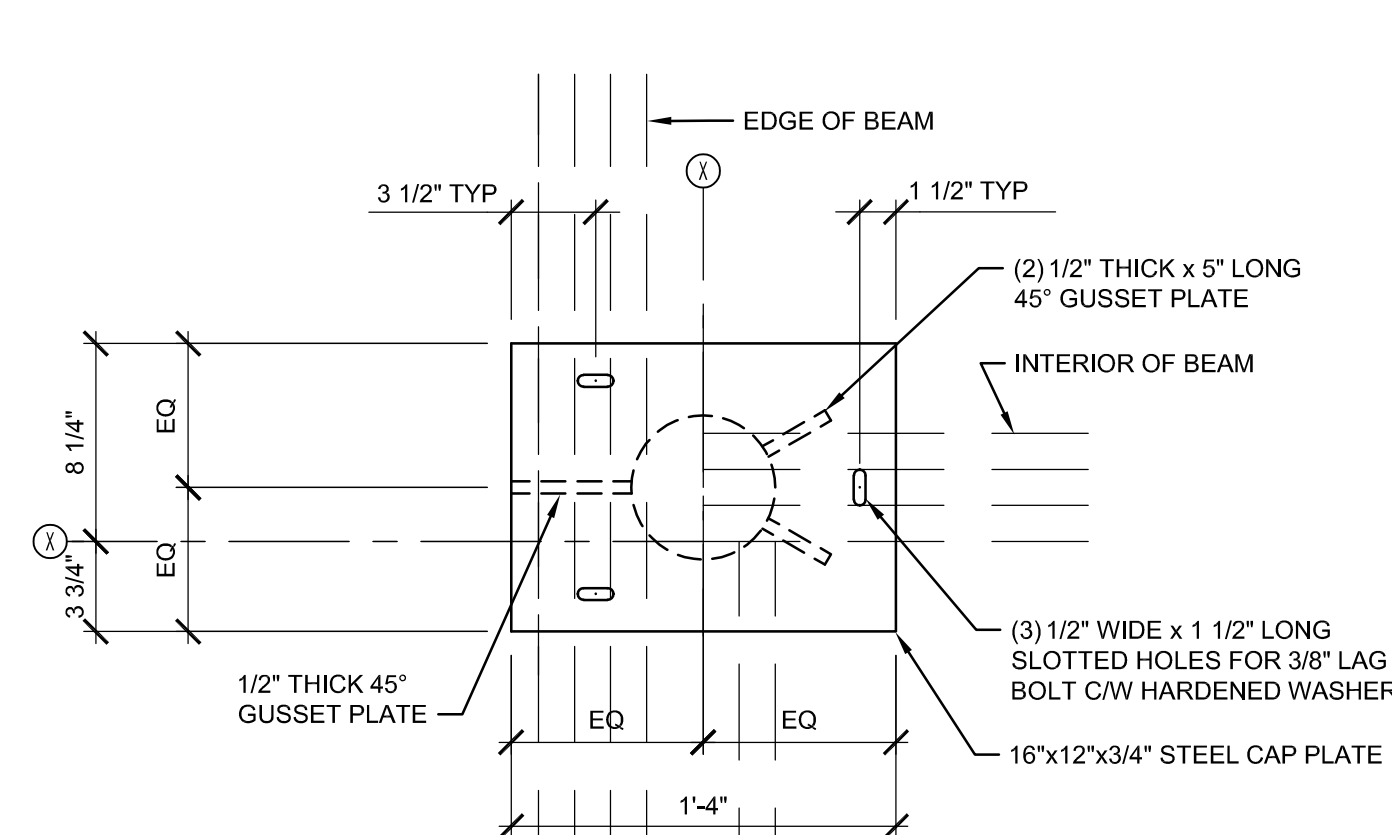
3 CAP PLATE 'CP3' DETAIL
S-501 SCALE: N.T.S.



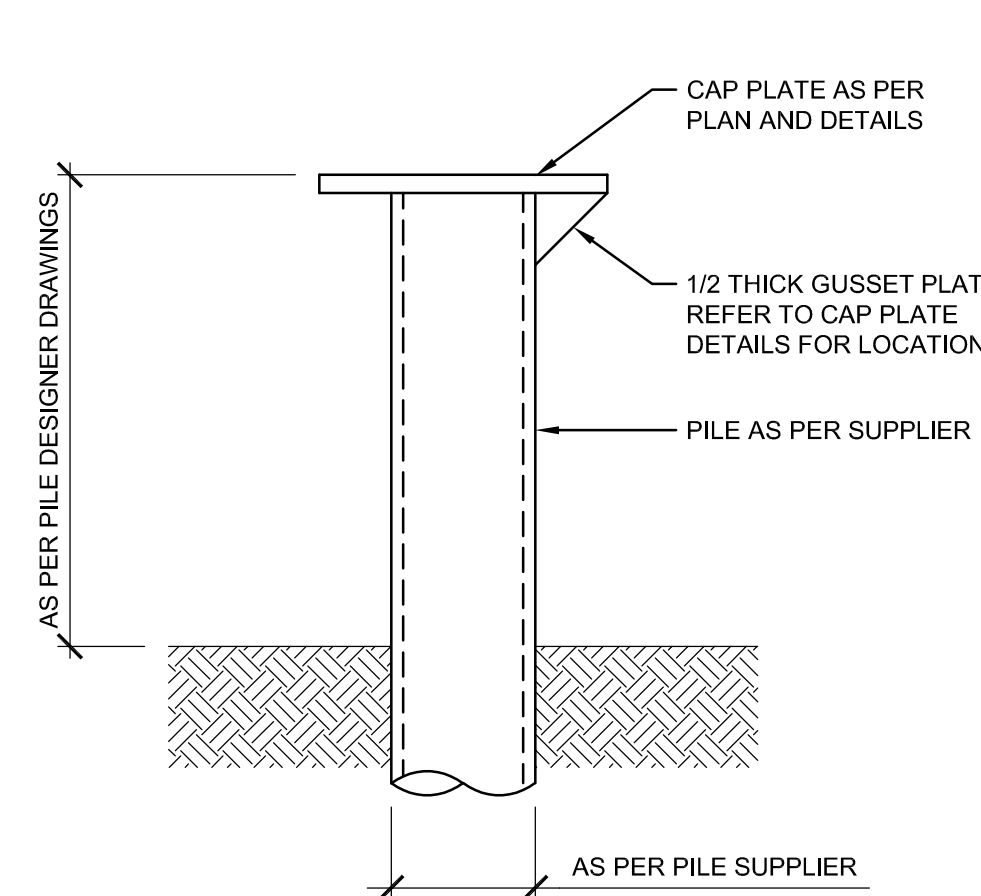
4 CAP PLATE 'CP4' DETAIL
S-501 SCALE: N.T.S.



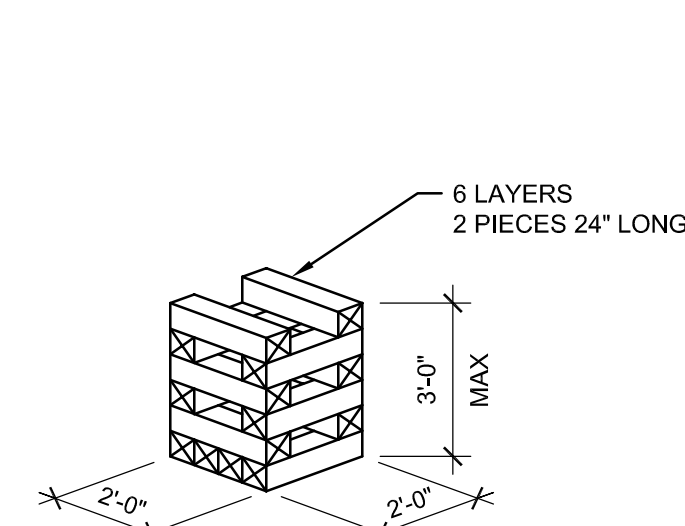
5 CAP PLATE 'CP5' DETAIL



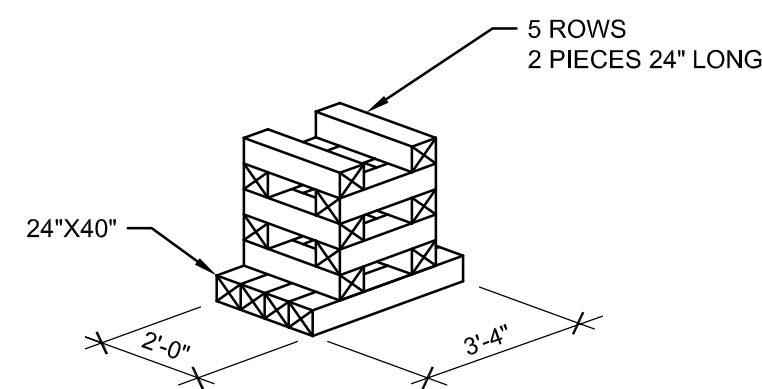
6 CAP PLATE 'CP6' DETAIL
S-501 SCALE: N.T.S.



7 TYPICAL PILE ELEVATION
S-501 SCALE: N.T.S.



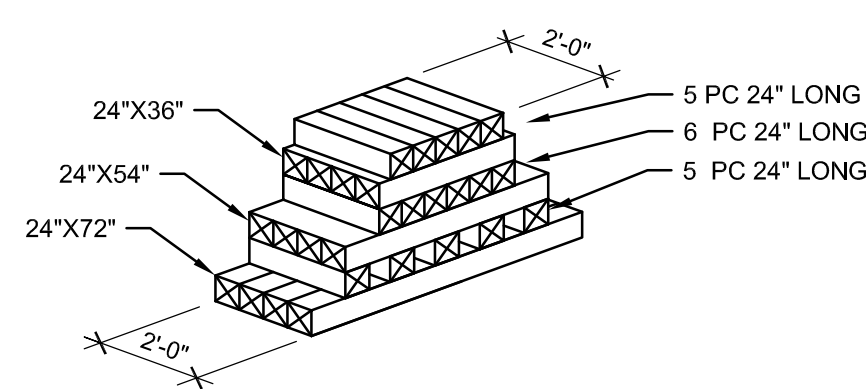
8 CRIPPING DETAIL @ WC12
S-501 SCALE: N.T.S.



SEE 16/S-501 FOR CORRECT
PLACEMENT ORIENTATION
WC20

6.6 SQ. FT = 20,000 lbs (20 kips)
SCALE: N.T.S. 33 1/3 LINEAR FEET
RE: FOUNDATION NOTES FOR SUBGRADE
REQUIREMENTS

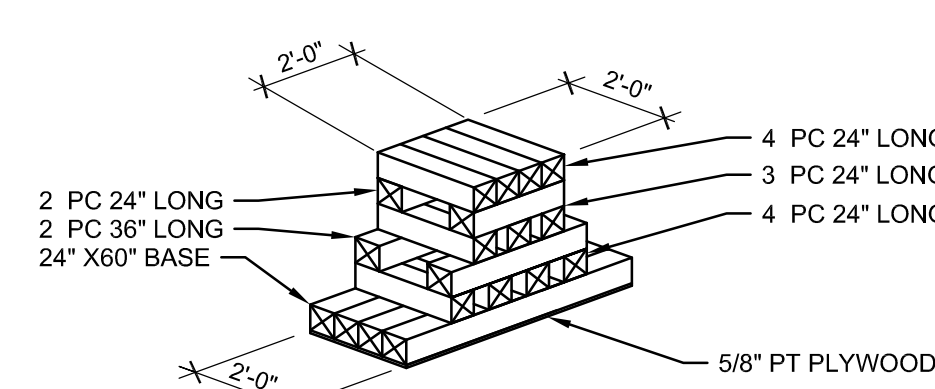
9 CRIPPING DETAIL @ WC20
S-501 SCALE: N.T.S.



SEE 16/S-501 FOR CORRECT
PLACEMENT ORIENTATION
WC36N

6.6 SQ. FT = 36,000 lbs (36 kips)
SCALE: N.T.S. 84 LINEAR FEET
RE: FOUNDATION NOTES FOR SUBGRADE
REQUIREMENTS

10 CRIPPING DETAIL @ WC36N
S-501 SCALE: N.T.S.



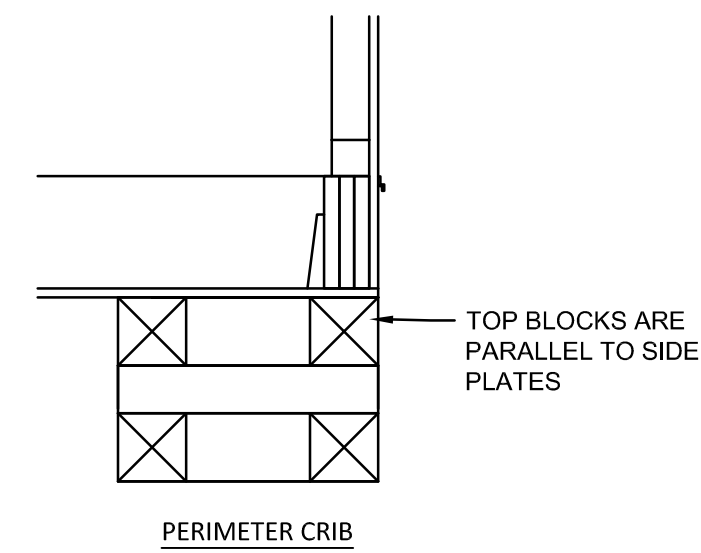
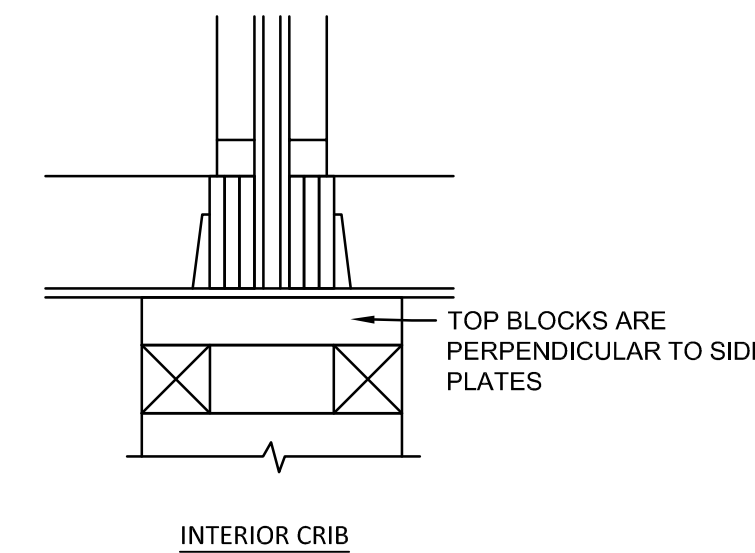
SEE 16/S-501 FOR CORRECT
PLACEMENT ORIENTATION
WC30N

10 SQ. FT = 30,000 lbs (30 kips)
SCALE: N.T.S. 44 LINEAR FEET
RE: FOUNDATION NOTES FOR SUBGRADE
REQUIREMENTS

11 CRIPPING DETAIL @ WC30N
S-501 SCALE: N.T.S.

CRIBBING GENERAL NOTES:

1. STRUCTURAL REACTION POINTS ARE BASED UPON SPECIFIED (UNFACTORED) LOADS.
2. REACTION LOCATIONS SHOWN BASED UPON THE LIMITING STRENGTH AND SERVICEABILITY OF THE BUILT-UP ATCO FLOOR BEAMS.
3. VERTICAL REACTIONS (GRAVITY LOADS) SHOWN ON PLAN.
4. TIMBER CRIB STACKS SHALL BE SPACED AS SHOWN ON PLAN.
5. TYPICAL CRIB MEMBERS - 6"x6" TIMBER
6. THE NUMBER OF COURSES MAY VARY IN EACH CRIB AS REQUIRED TO SUIT LEVELING/UTILITY CONDITIONS BUT NOTE THAT THE ORIENTATION OF THE TOP LAYER MEMBERS MUST CORRESPOND TO DETAIL 'A' AND THE HEIGHT MUST NOT EXCEED 3'-0" UNLESS APPROVED BY ATCO STRUCTURES ENGINEERING DEPARTMENT.
7. SHIM TO LEVEL BETWEEN COURSES.
8. SHIM MATERIAL MUST BE STRUCTURAL GRADE MATERIAL AND BEAR COMPLETELY ON THE FULL WIDTH OF THE TIMBER ELEMENT
9. THE BEARING CAPACITY CAN BE INCREASED BY INCREASING THE LENGTH OF THE BOTTOM COURSE MEMBERS.
10. PRESUMED SOIL BEARING CAPACITY 3000 psf. (MINIMUM)
11. BOTTOM BLOCKS TO BE PRESSURE TREATED



12 DETAIL 'A' TYPICAL CRIB TIMBER ORIENTATION
S-501 SCALE: N.T.S.



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REVISIONS:

SHEET CONTENTS:
FRAMING DETAILS

SHEET NUMBER:

S-501

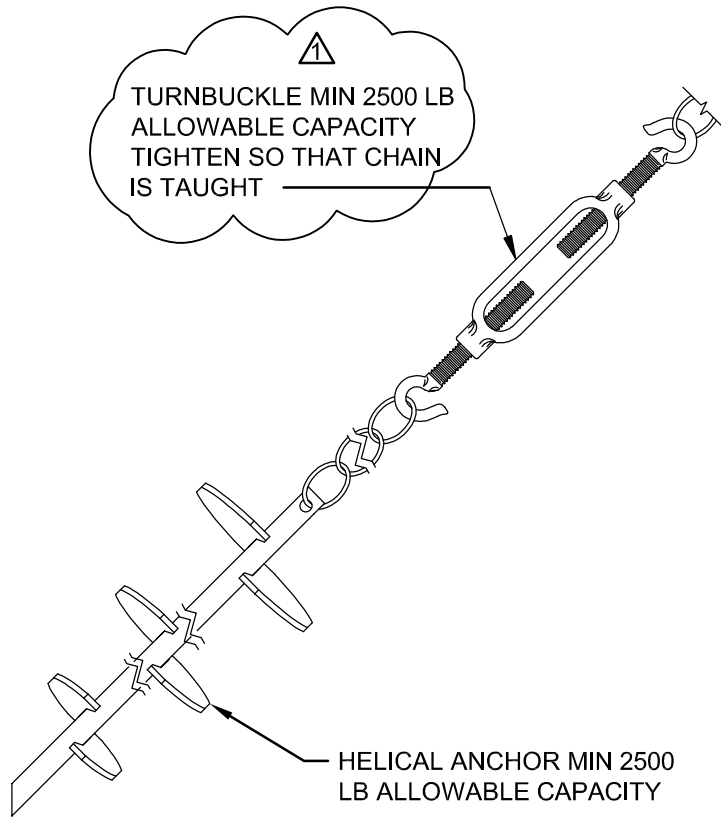
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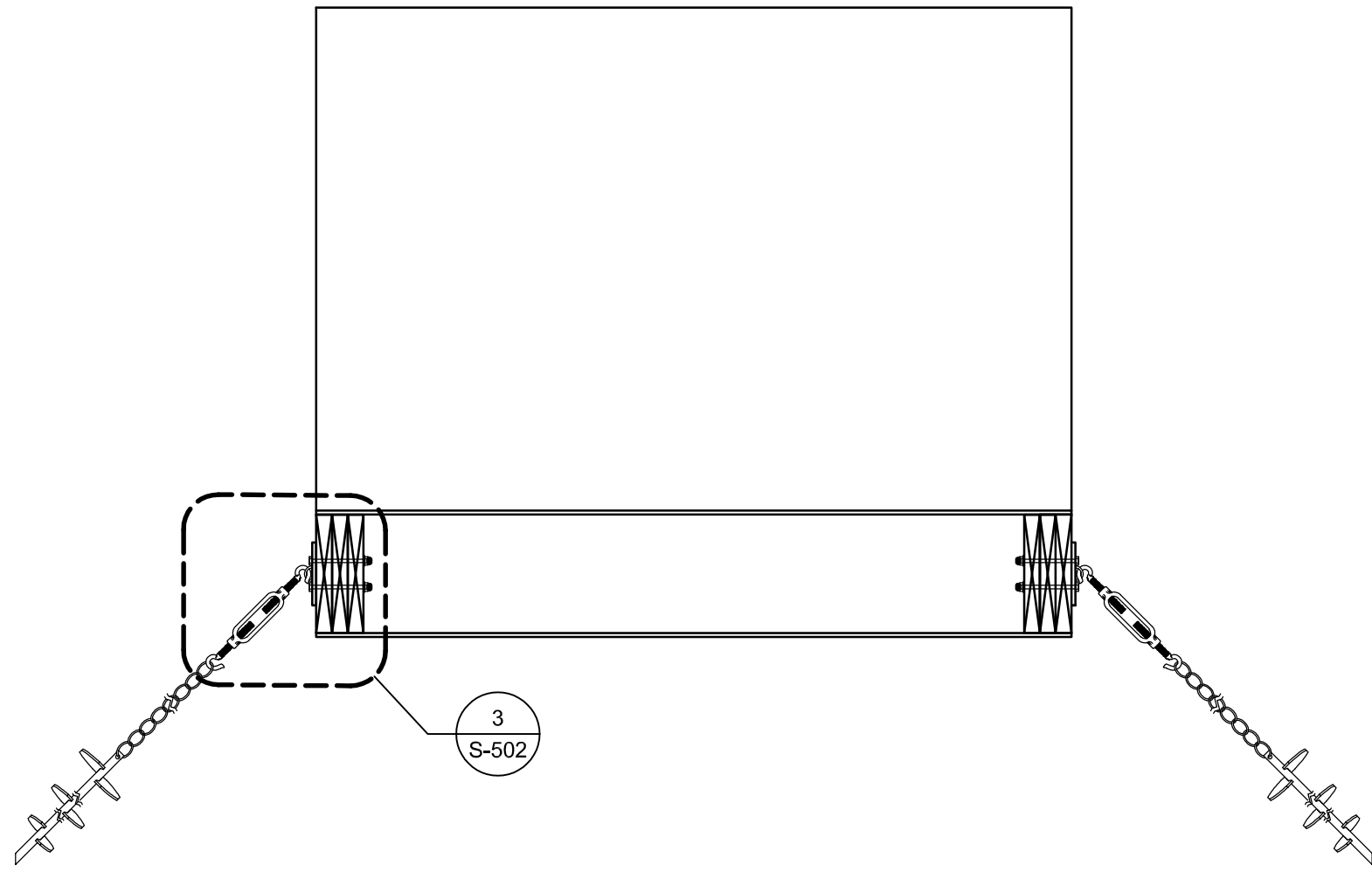
C

B

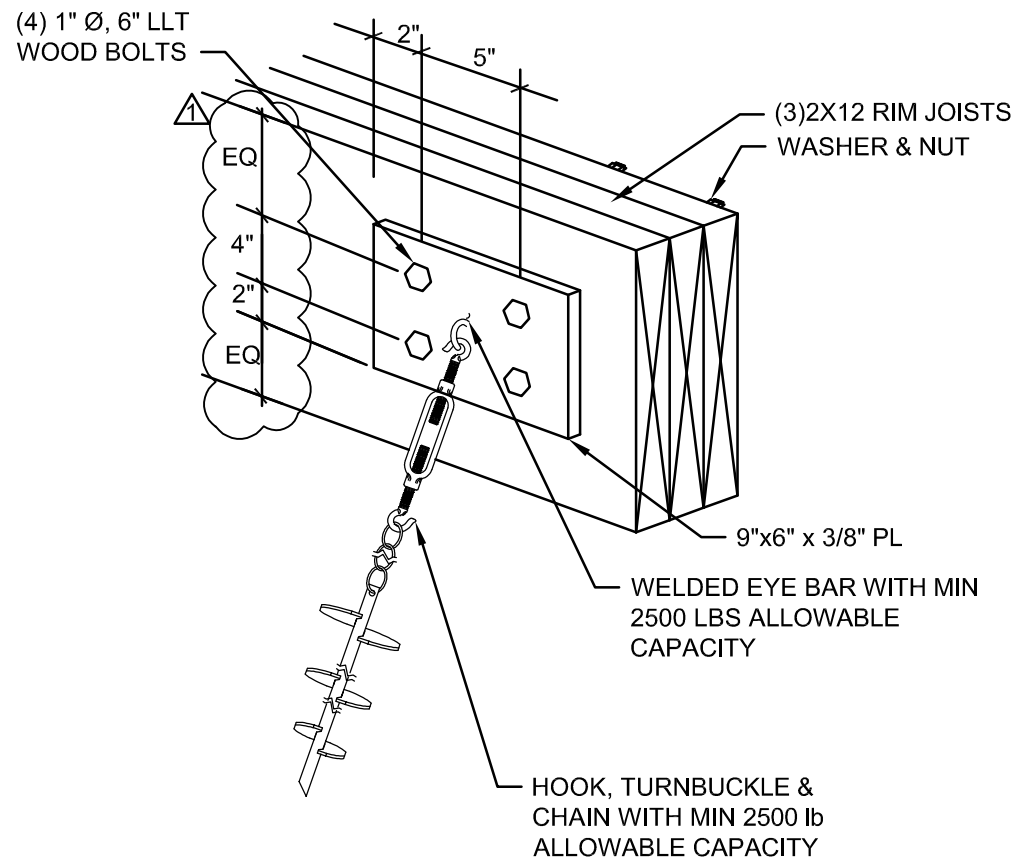
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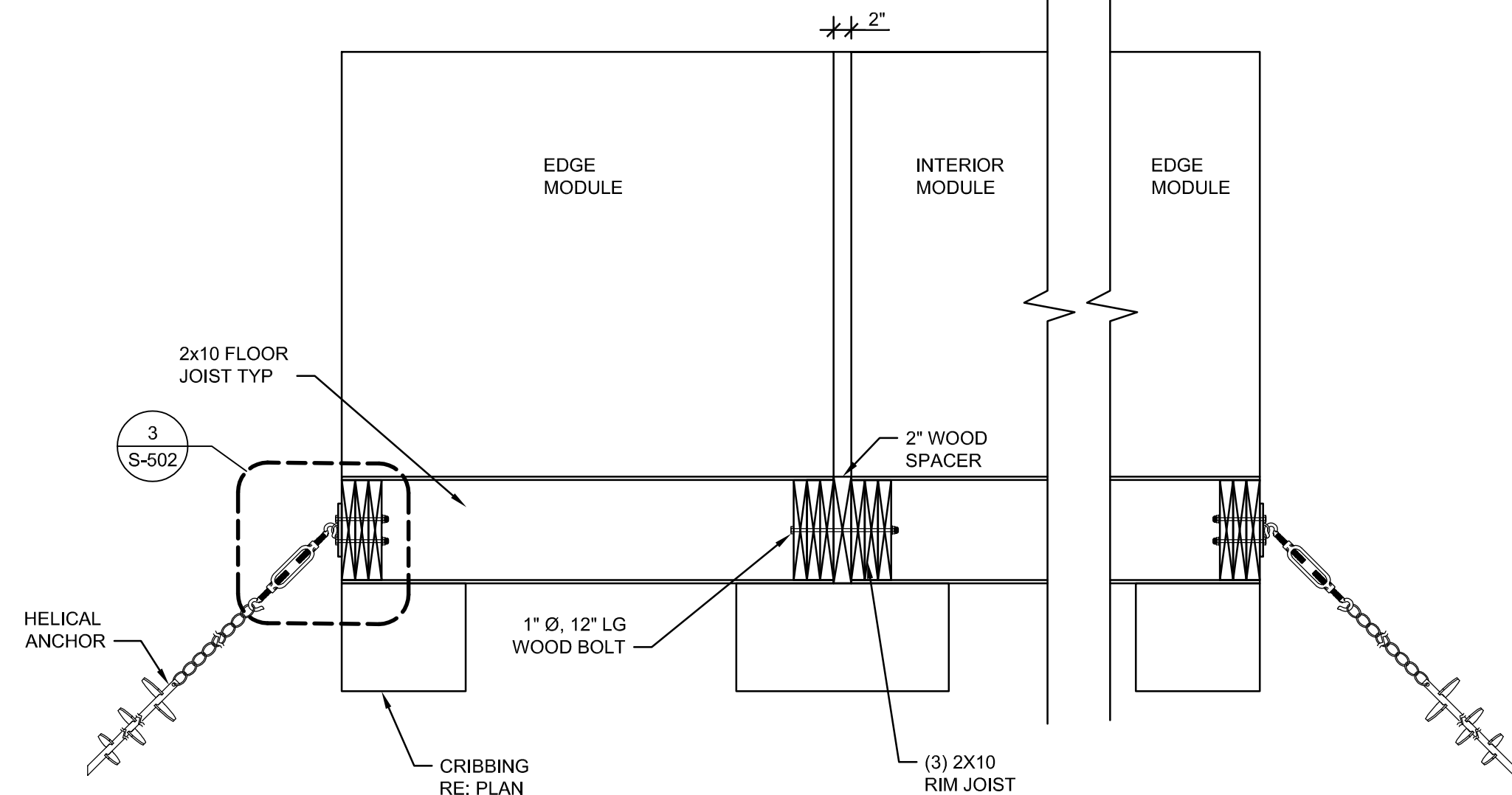
1 ANCHOR DETAIL
S-502 SCALE: N.T.S.



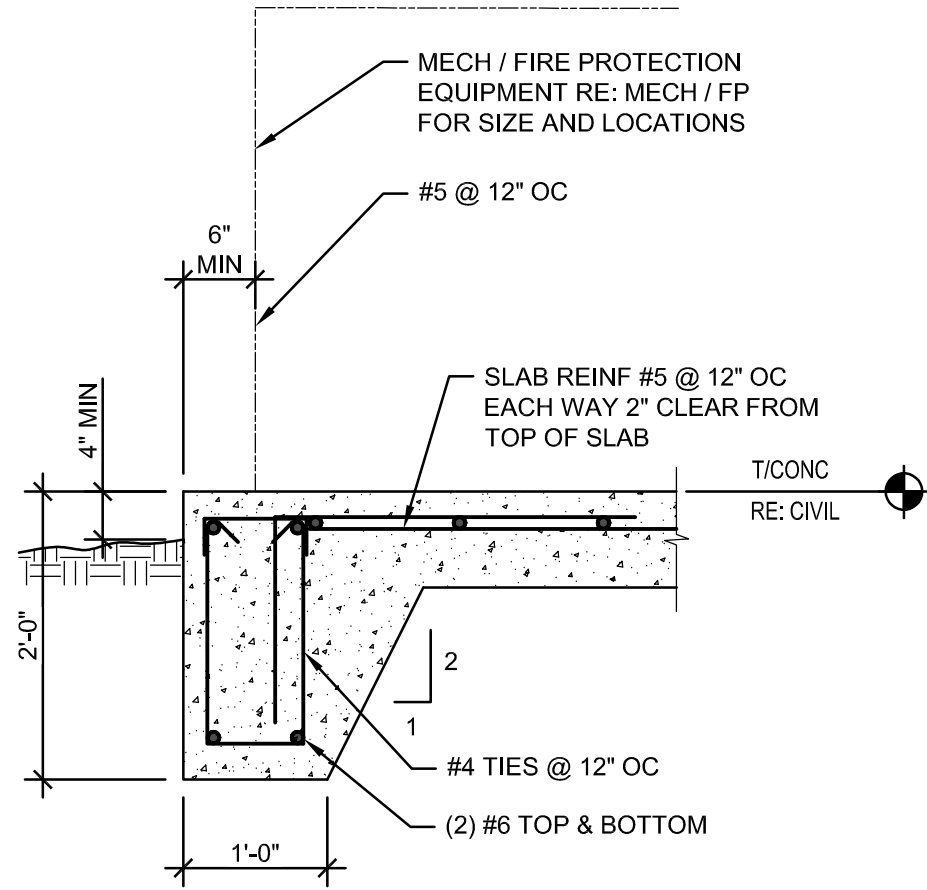
2 TYPICAL CORRIDOR SECTION
S-502 SCALE: N.T.S.



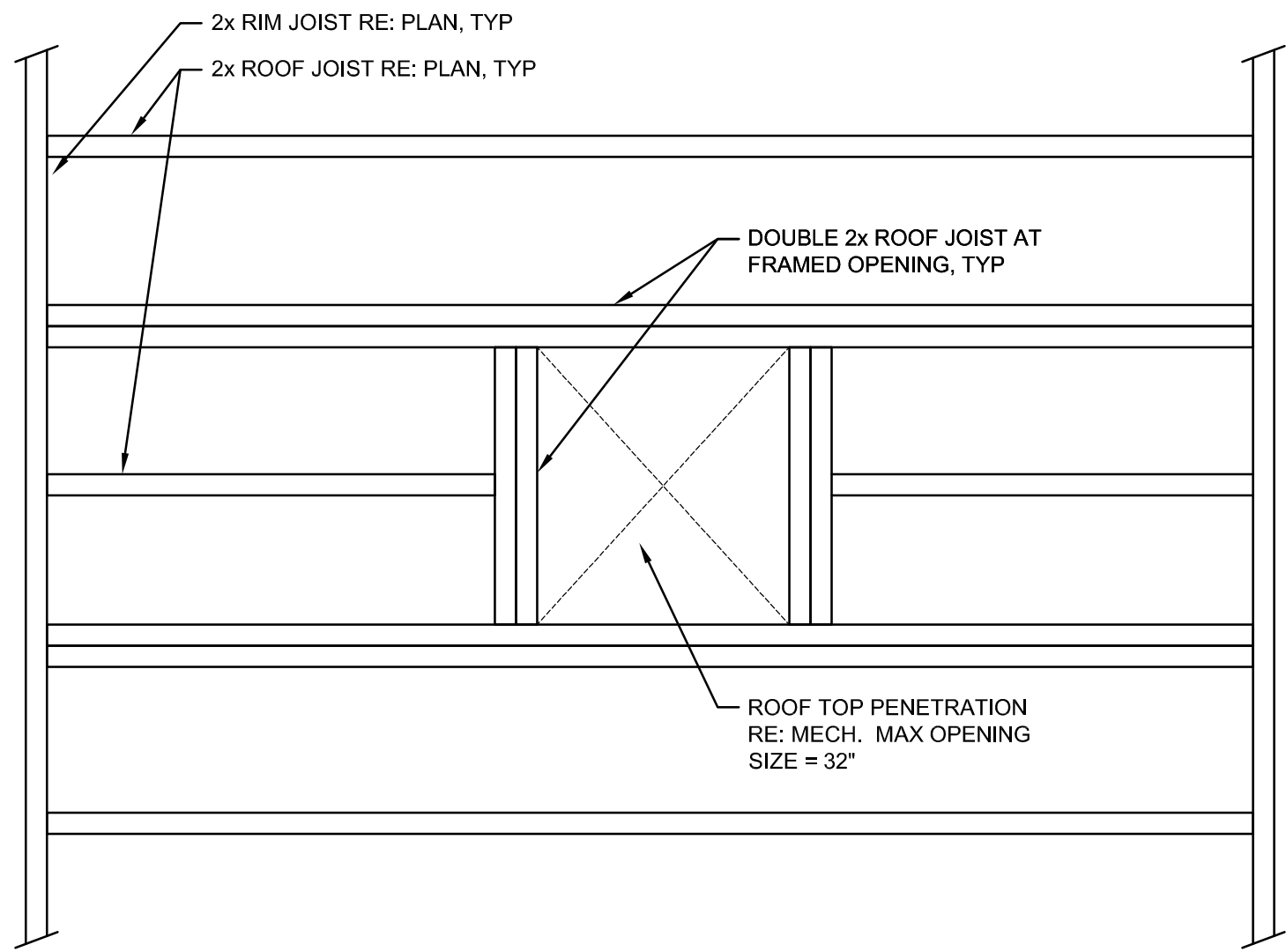
3 ENLARGEMENT
S-502 SCALE: N.T.S.



4 TYP ANCHORAGE 1-STORY MODULES
S-502 SCALE: N.T.S.



5 TYPICAL EQUIPMENT PAD SECTION
S-502 SCALE: N.T.S.



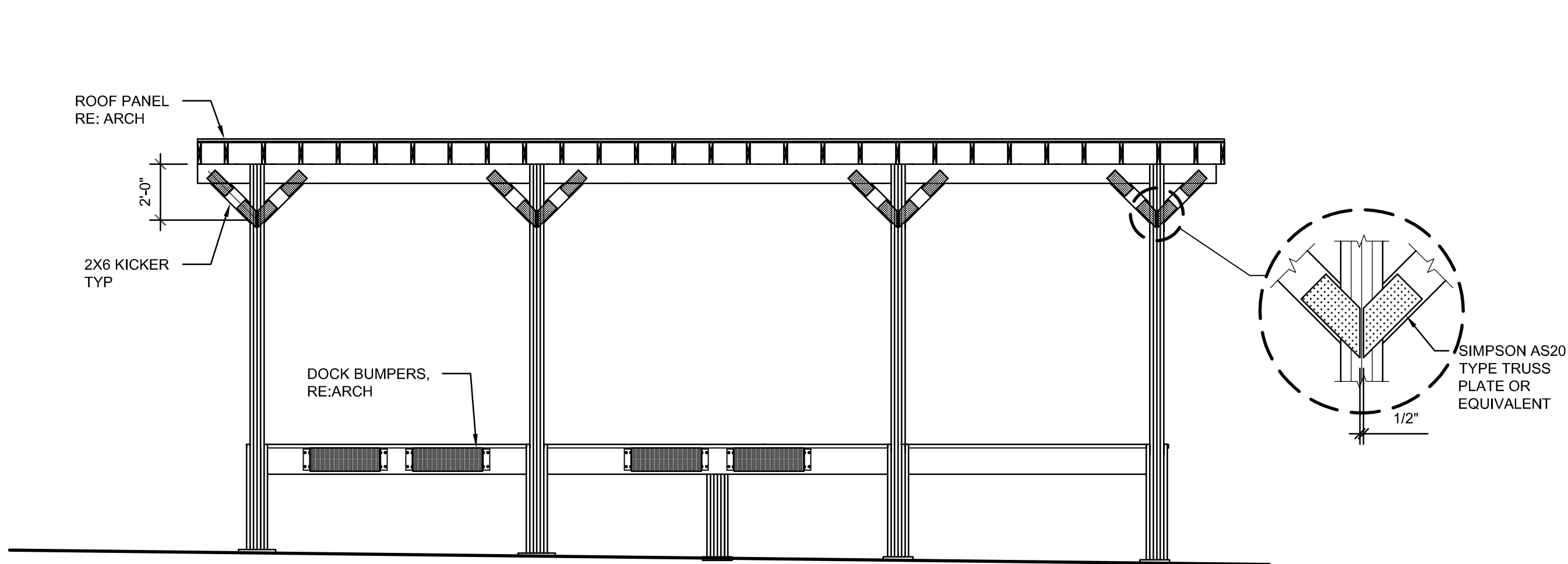
6 TYPICAL FRAMED OPENING AT ROOF PENETRATION
S-502 SCALE: N.T.S.

D

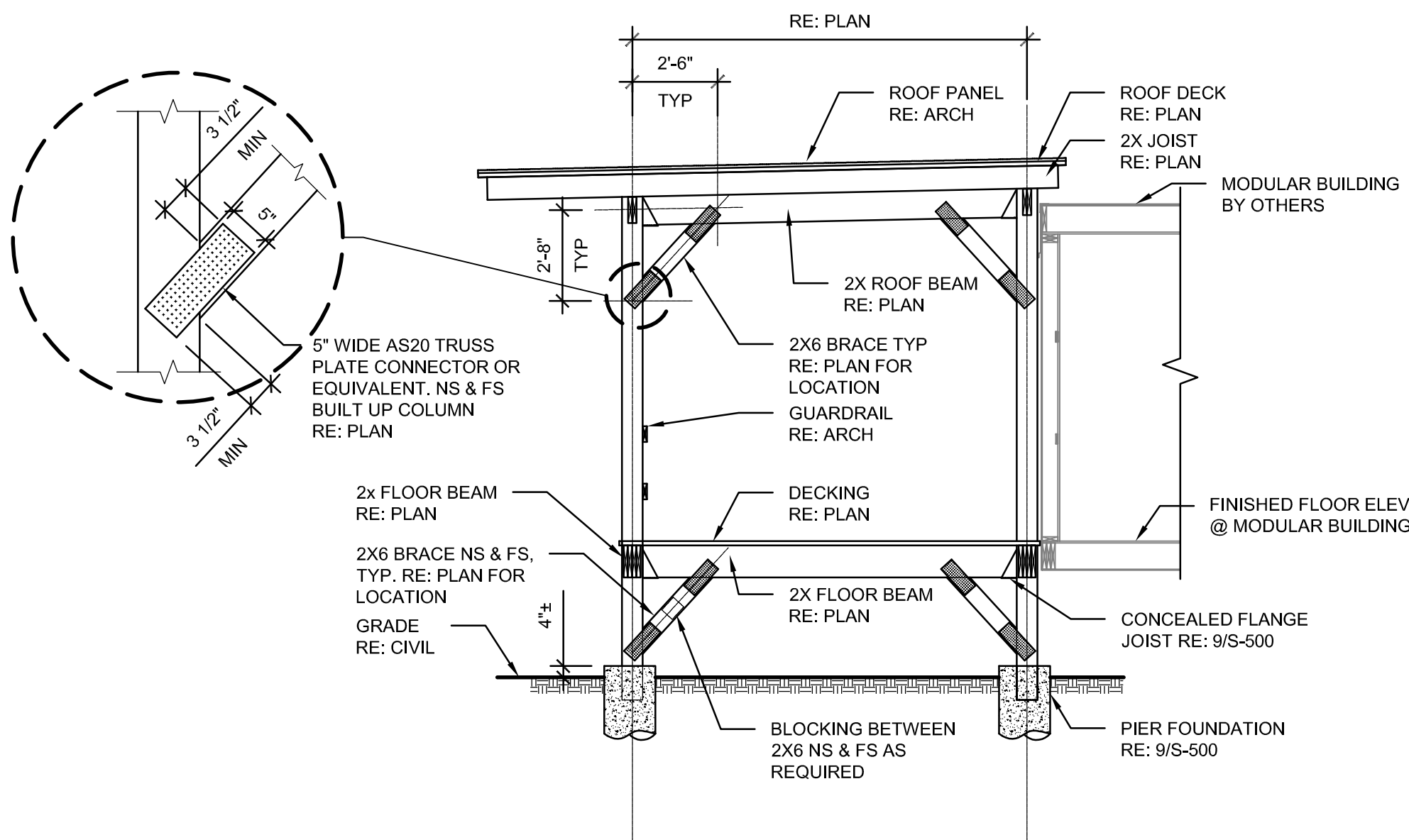
C

B

A



1 ELEVATION @ LOADING DOCK
S-503 SCALE: 1/4" = 1'-0"



2 LOADING DOCK SECTION
S-503 SCALE: 1/4" = 1'-0"

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

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777 Main Street
Fort Worth, TX 76102

TIMOTHY A. POTYRAL

NEW MEXICO

16587

PROFESSIONAL ENGINEER

10/3/2019

AMITY

LODGES

CRIOLLO LODGE

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REVISIONS:

SHEET CONTENTS:

BUILDING SECTION

SHEET NUMBER:

S-503

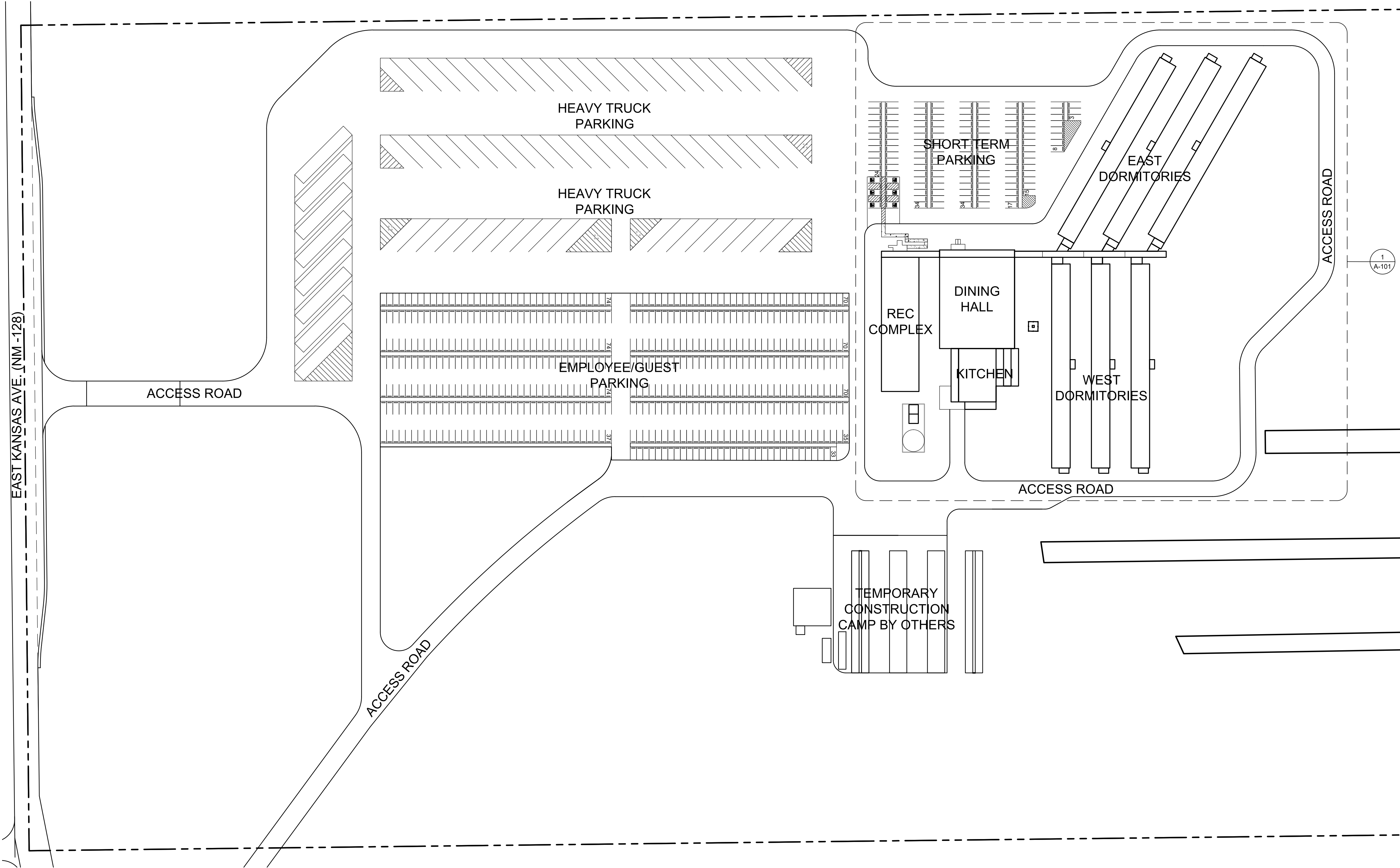
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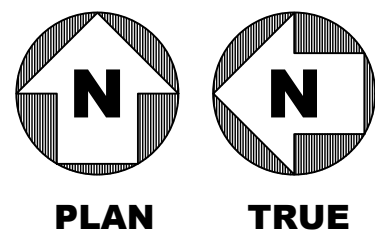
C

B

A



1 ARCHITECTURAL SITE PLAN
A-100 SCALE: 1" = 80'



0 40 80' 160'
SCALE: 1" = 80'

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REVISIONS:

SHEET CONTENTS:
ARCHITECTURAL SITE PLAN

SHEET NUMBER:

A-100

XXX

GENERAL NOTES

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LEGEND



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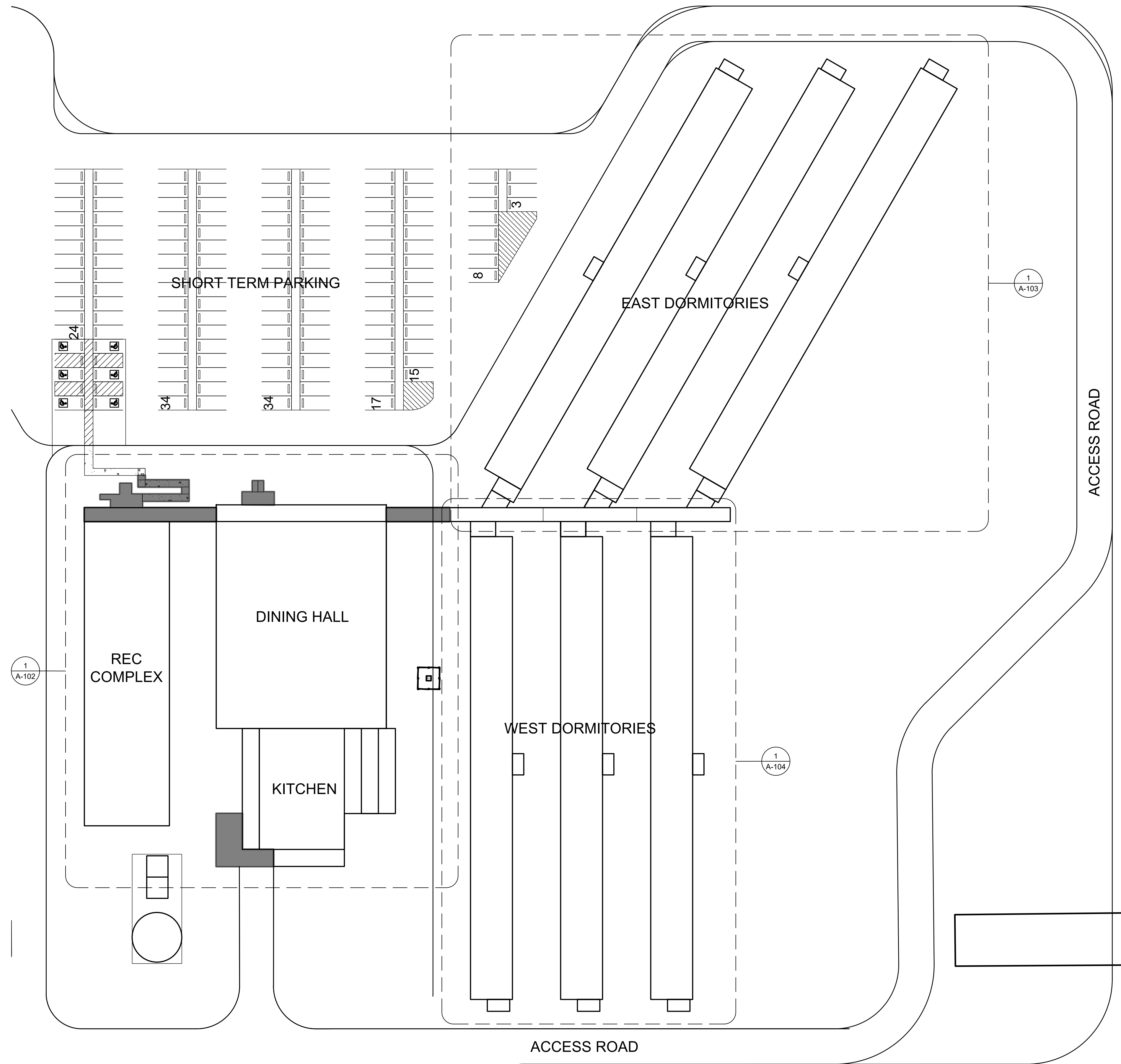
SHEET CONTENTS:

MODULAR BUILDING LAYOUT

SHEET NUMBER:

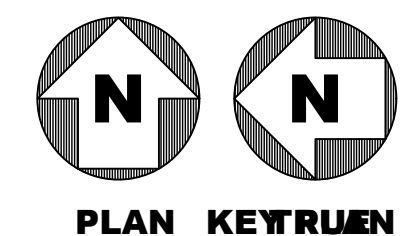
A-101

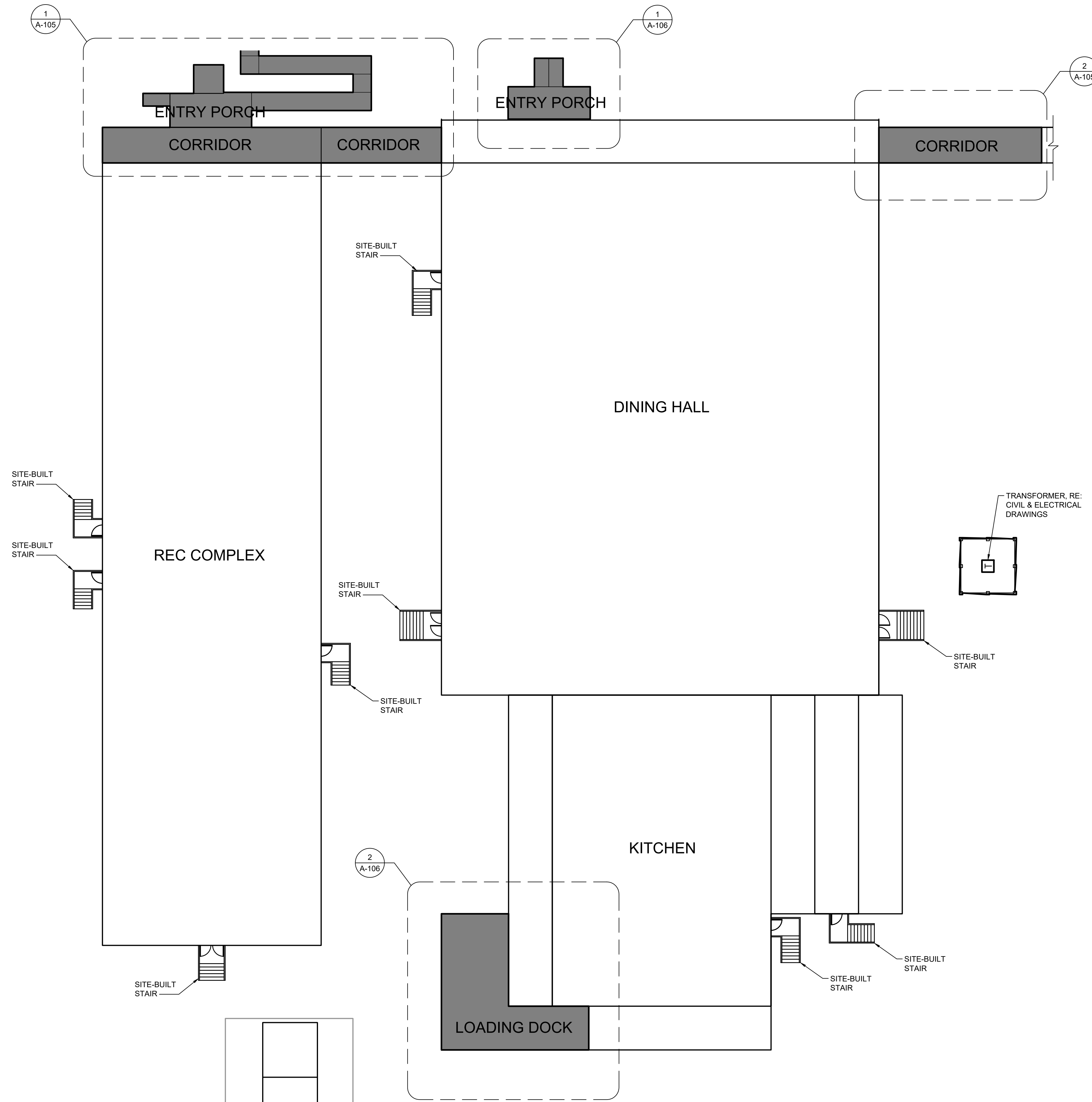
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1 MODULAR BUILDING LAYOUT

A-101 SCALE: 1" = 40'





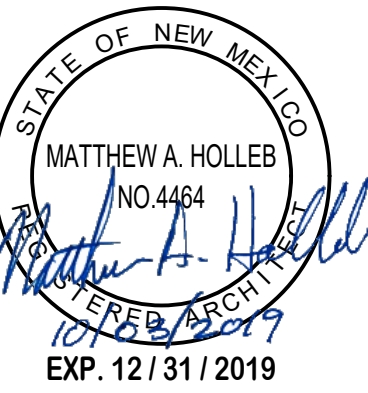
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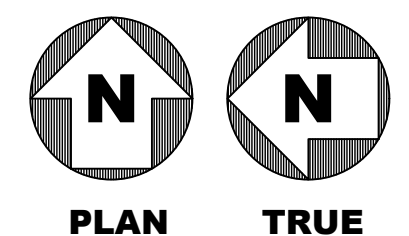
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OVERALL PLAN - REC
COMPLEX AND DINING HALL

SHEET NUMBER:

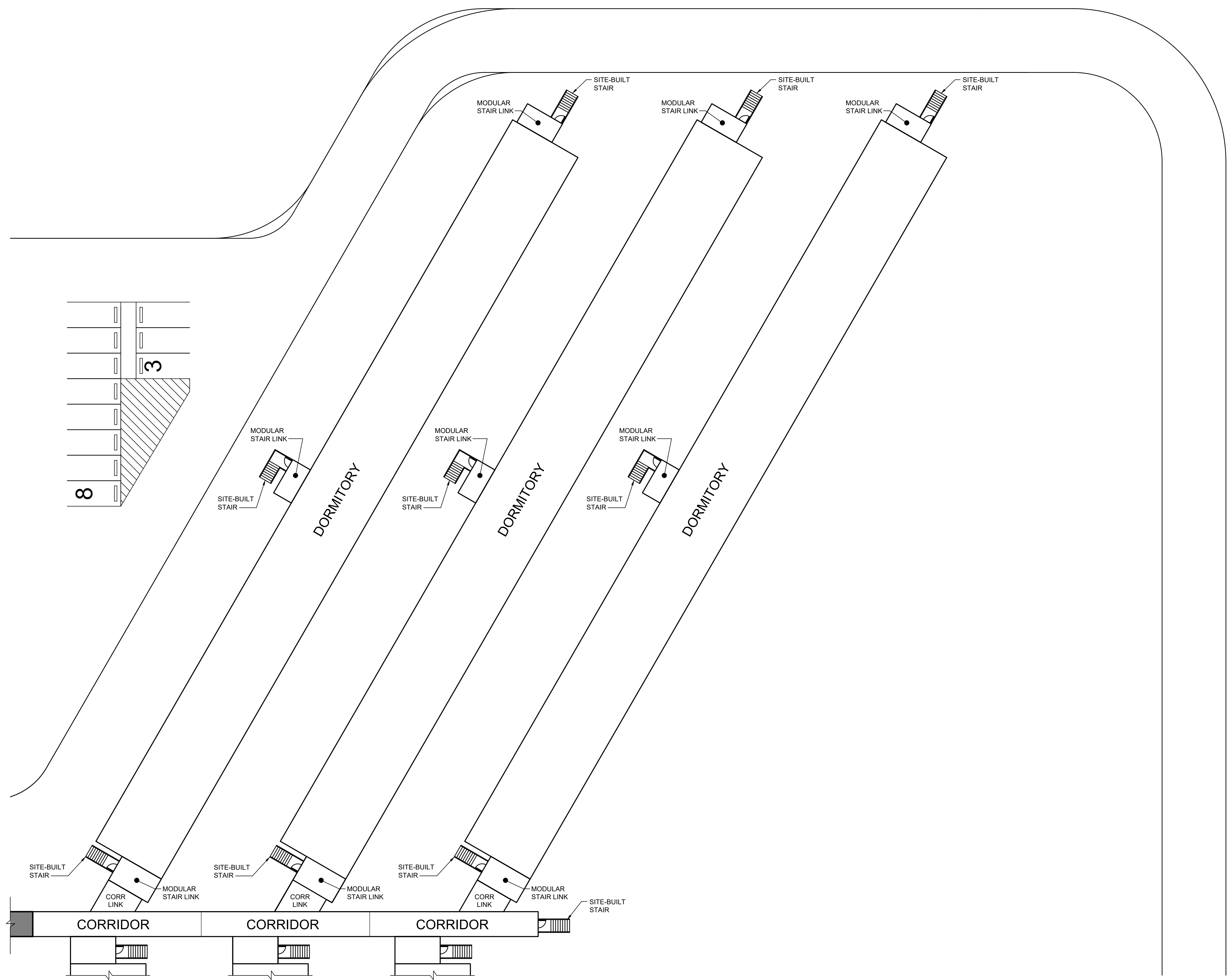
A-102

XX



0 8' 16' 32'
SCALE: 1/16"=1'-0"

1
2
3
4
5
D
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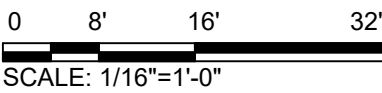
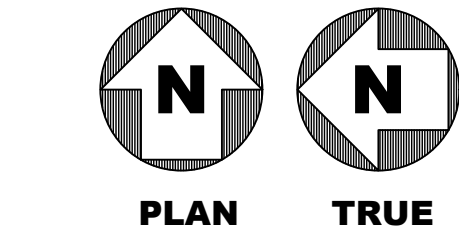
1 OVERALL PLAN - DORMITORIES EAST
A-103 SCALE: 1/16" = 1'-0"

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LEGEND

- EXISTING RELOCATED MODULAR UNITS
- NEW SITE-BUILT CONSTRUCTION



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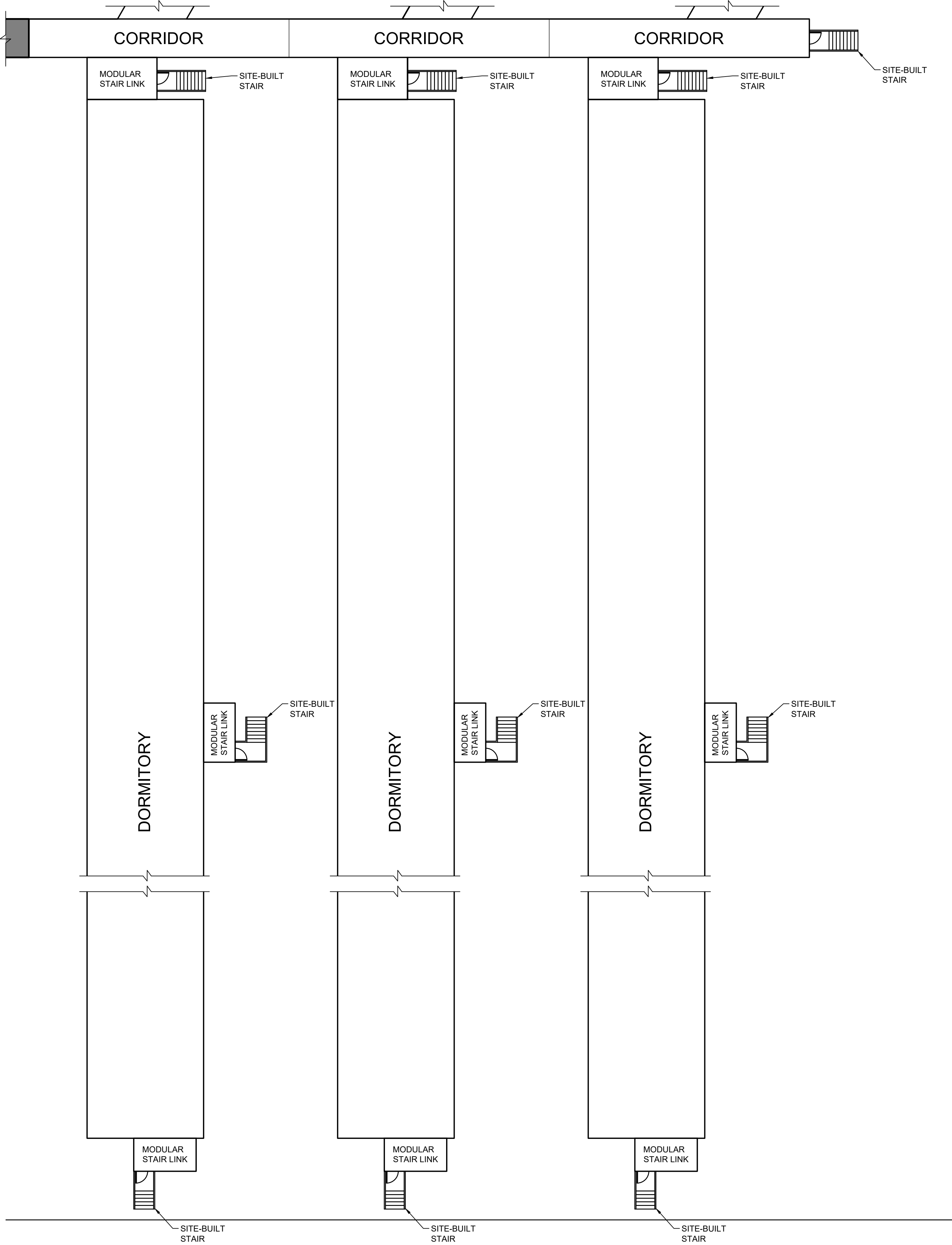
REVISIONS:

SHEET CONTENTS:
OVERALL PLAN -
DORMITORIES EAST

SHEET NUMBER:
A-103

XXX

1
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C
B
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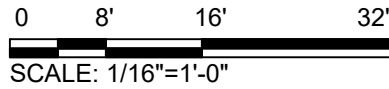
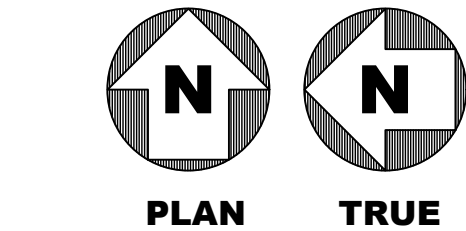
1 OVERALL PLAN - DORMITORIES WEST
A-104 SCALE: 1/16" = 1'-0"

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- EXISTING RELOCATED MODULAR UNITS
- NEW SITE-BUILT CONSTRUCTION



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STATE OF NEW MEXICO
MATTHEW A. HOLLEB
NO. 4464
10/15/2019
EXP. 12 / 31 / 2019

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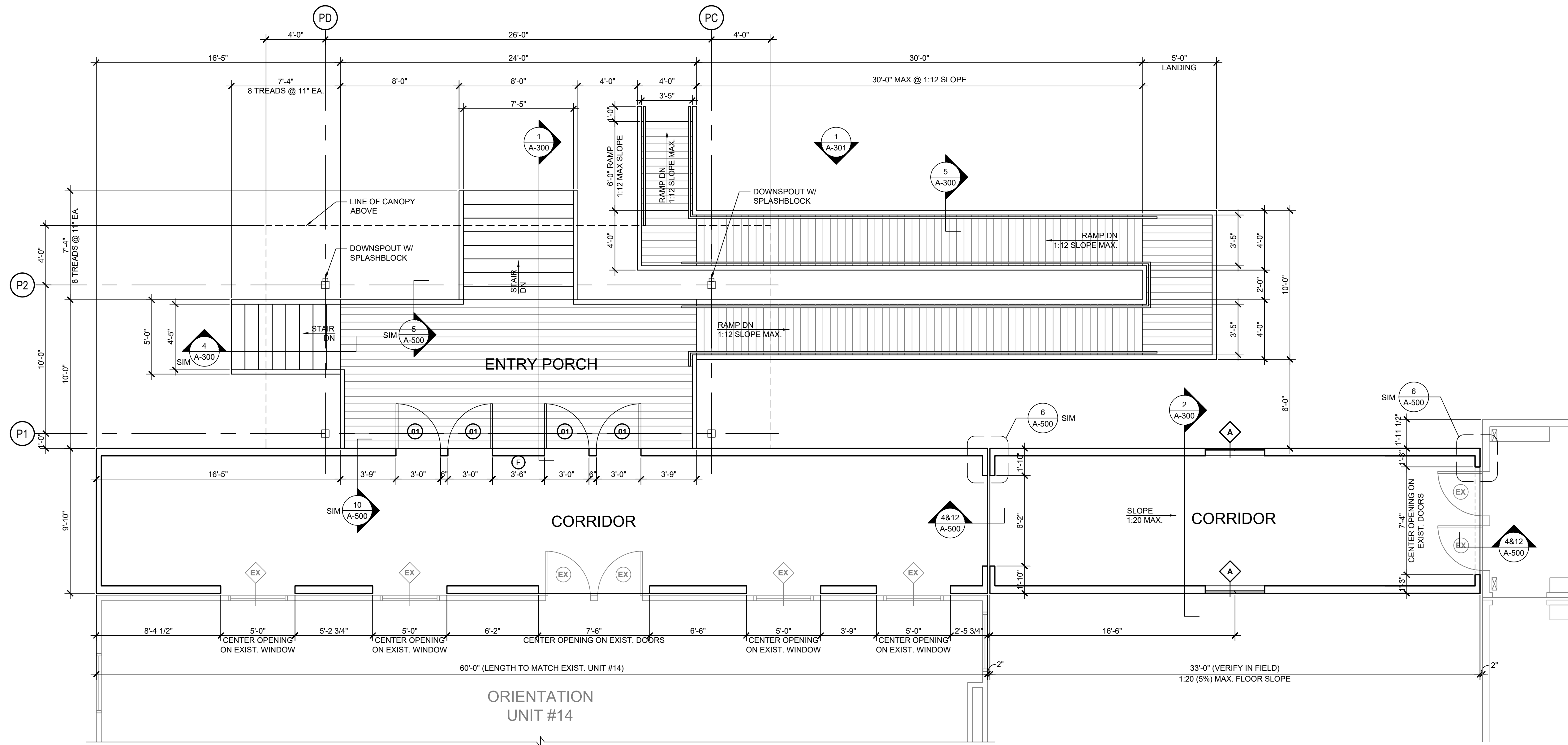
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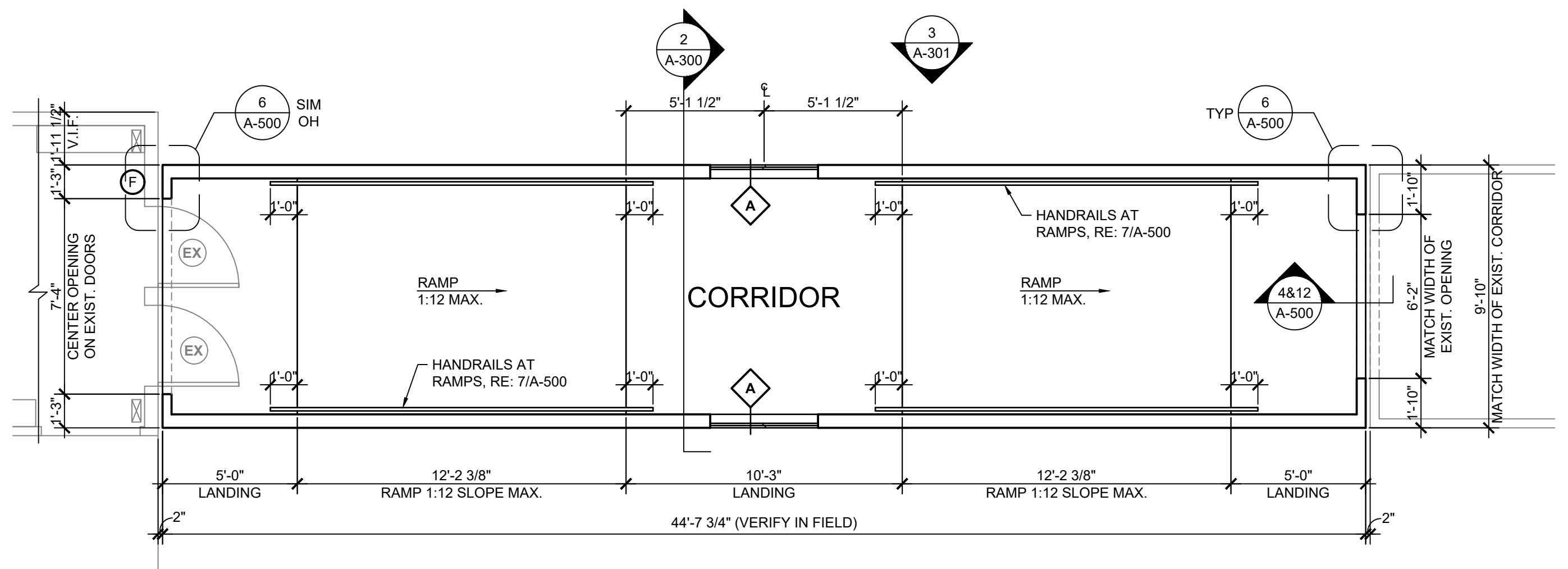
SHEET CONTENTS:
OVERALL PLAN -
DORMITORIES WEST

SHEET NUMBER:
A-104

XXX



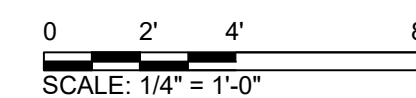
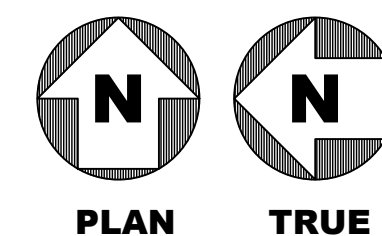
1 ENTRY PORCH AT REC COMPLEX
A-105 SCALE: 1/4" = 1'-0"



2 CORRIDOR BETWEEN DINING HALL & DORMS
A-105 SCALE: 1/4" = 1'-0"

DOOR SCHEDULE				
TAG	SIZE	R.O.	DESCRIPTION	NOTES
01	3'-0" x 6'-8"	37 3/4" x 81 1/4"	NEW INSULATED METAL DOORS, PAINTED TO MATCH WESTMAN STEEL QC 8315 "TAN" BOTH SIDES, FRAME PAINTED TO MATCH WESTMAN STEEL QC 8326 "COFFEE", SEALED, SAFETY GLASS, FIXED HALF LITE, PANIC HARDWARE VON DUPRIN 98 SERIES, KEYLESS ENTRY DORMAKABA ILCO 790 PROXIMITY CARD LOCK, NRP HINGES, CLOSER, WEATHER STRIPPING, ALUM. THRESHOLD, DRIP CAP, S.S. KICK PLATE	ALL EXTERIOR DOORS KEYED THE SAME, COORDINATE WITH OWNER

WINDOW SCHEDULE				
TAG	SIZE	R.O.	DESCRIPTION	NOTES
A	4'-0" x 3'-0"	48 1/4" x 36 1/4"	NEW WINDOW, 4"x3", SILL AT 45" A.F.F., PREFINISHED WHITE, HORIZONTAL SLIDER, SCREEN, DOUBLE PANE INSULATED, LOW-E CLEAR GLASS, 5/2 1/2" DRIP CAP PREFINISHED TO MATCH WESTMAN STEEL QC 8315 "TAN"	





CRIOLLO LODGE
1218 KIZZER LANE
JAL, NEW MEXICO 88252

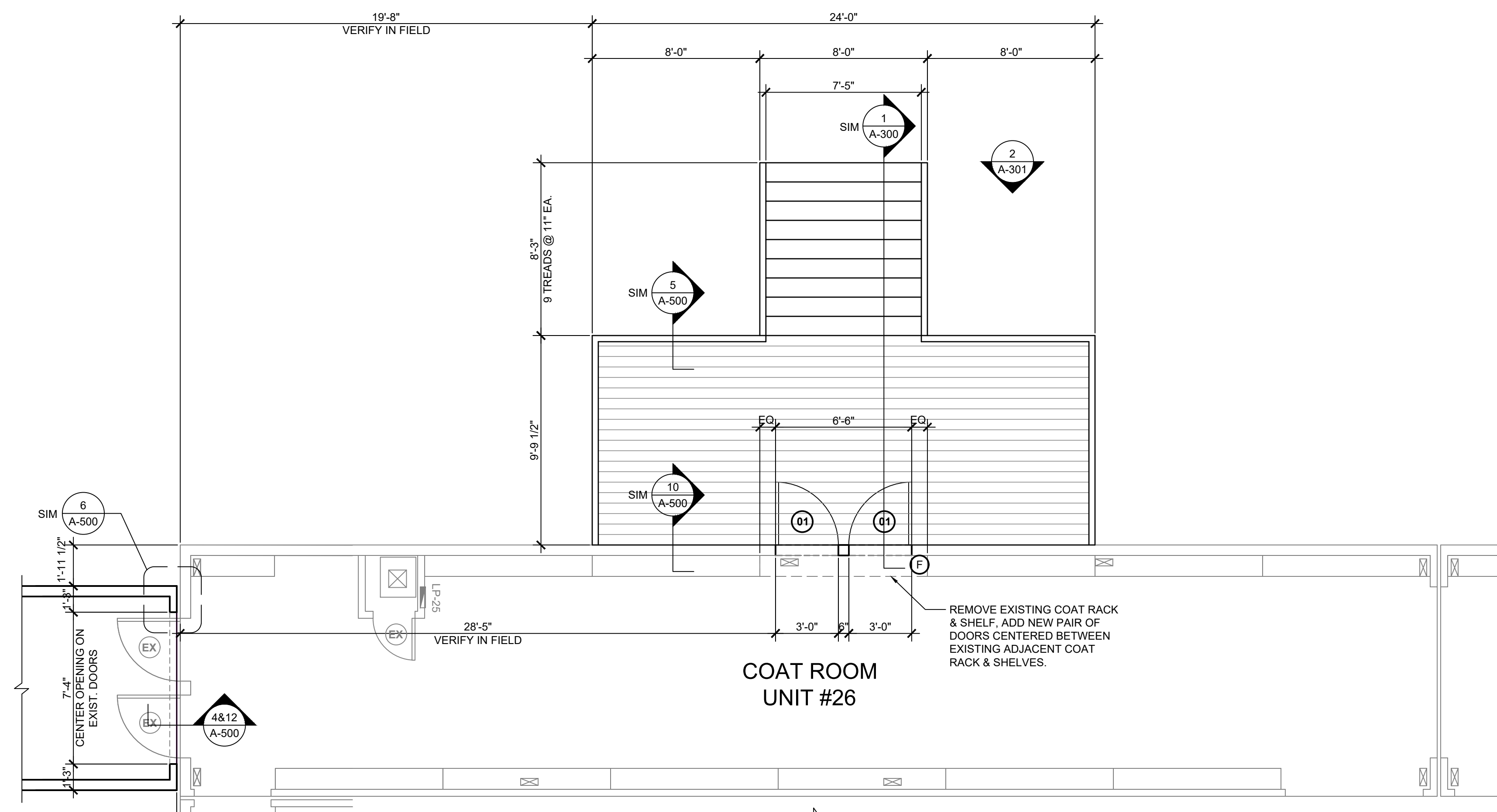
10-3-19

D: FOR CONSTRUCTION 10/03/2019

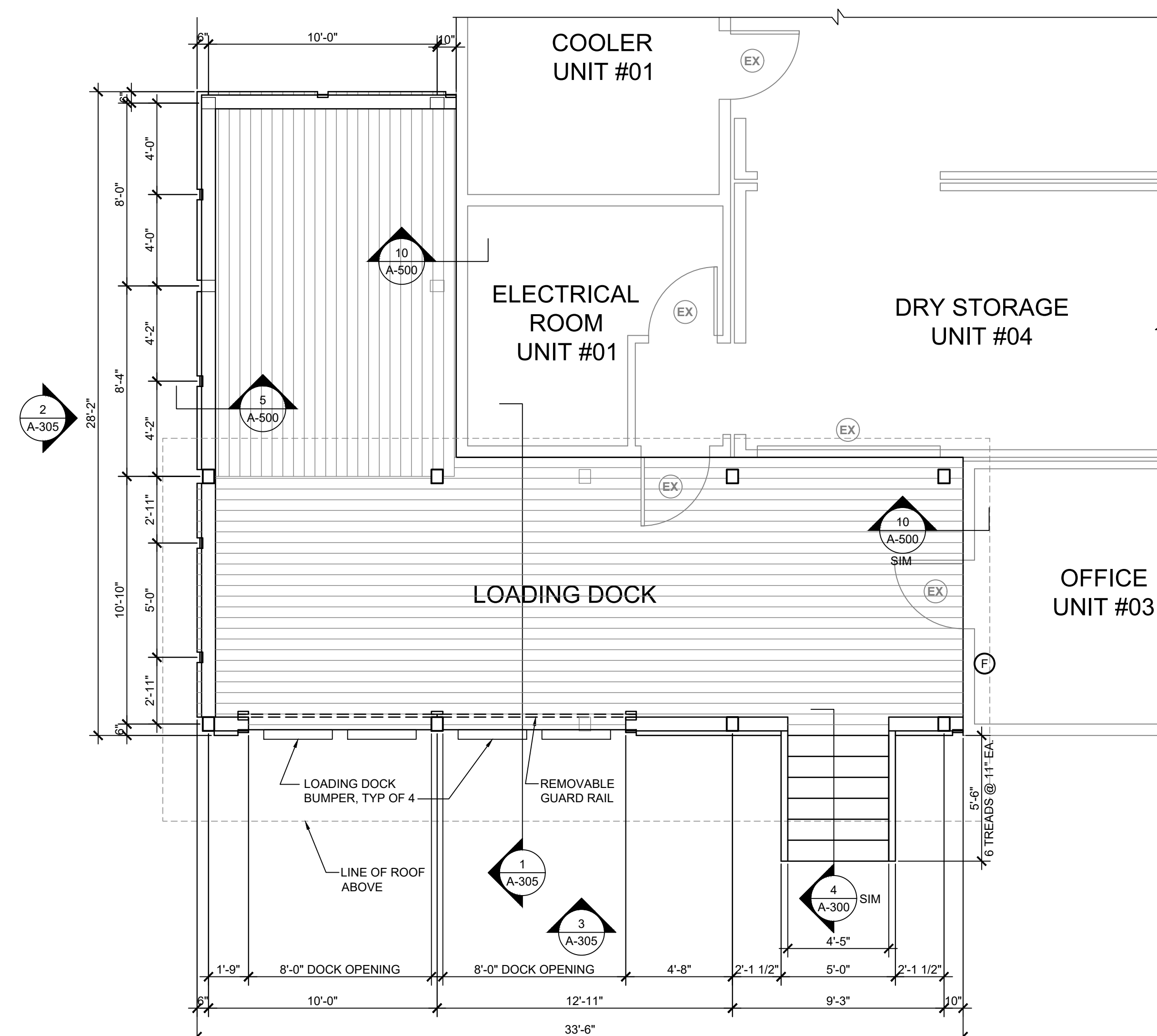
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A-106

XXV

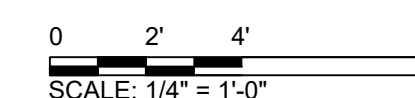
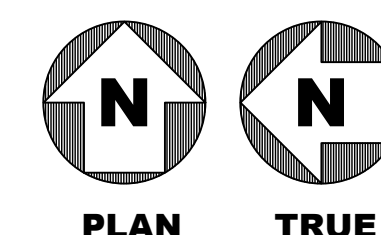


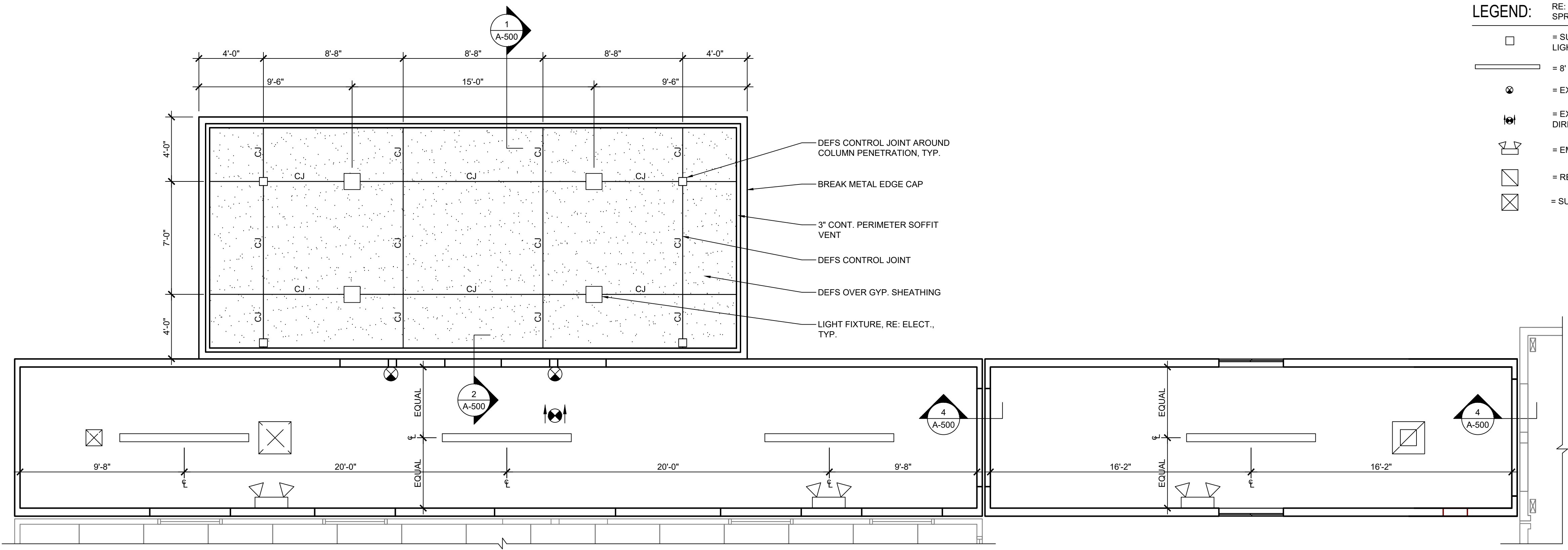
1 ENTRY PORCH AT DINING HALL
A-106 SCALE: 1/4" = 1'-0"



2 LOADING DOCK AT KITCHEN
A-106 SCALE: 1/4" = 1'-0"

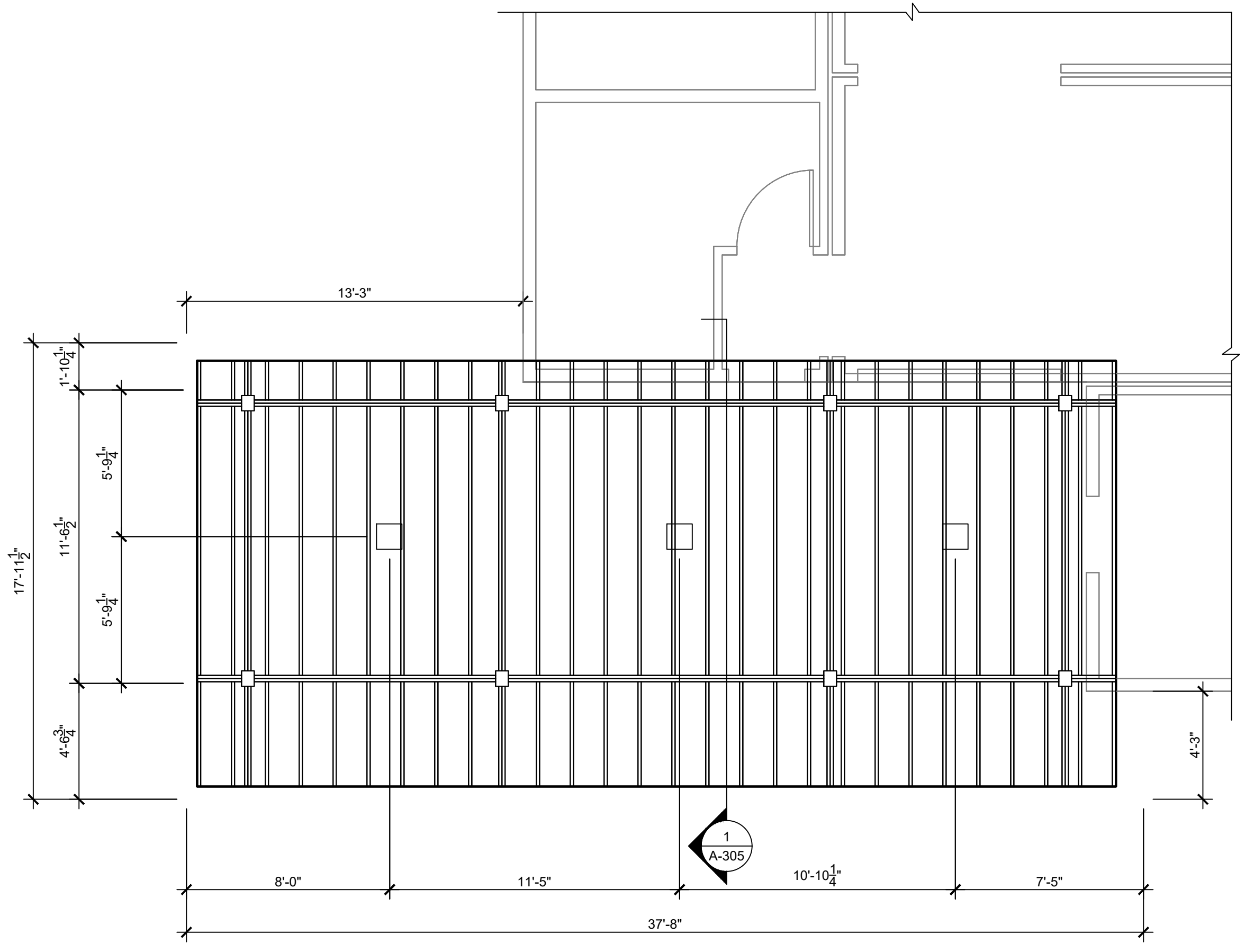
DOOR SCHEDULE				
TAG	SIZE	R.O.	DESCRIPTION	NOTES
01	3'-0" x 6'-8"	37 3/4" x 81 1/4"	NEW INSULATED METAL DOORS, PAINTED TO MATCH WESTMAN STEEL. Q.C. 8315 "TIE" BOTH SIDES, FRAME PAINTED TO MATCH WESTMAN STEEL. Q.C. 8326 "COFFEE", SEALED, SAFETY GLASS, FIXED HALF LITE, PANIC HARDWARE VON DUPRIN 98 SERIES, KEYLESS ENTRY DORMAKABA ILCO 790 PROXIMITY CARD LOCK, NRP HINGES, CLOSER, WEATHER STRIPPING, ALUM. THRESHOLD, DRIP CAP, S.S. KICK PLATE	ALL EXTERIOR DOORS KICK TO THE SAME COORDINATE WITH OWNER



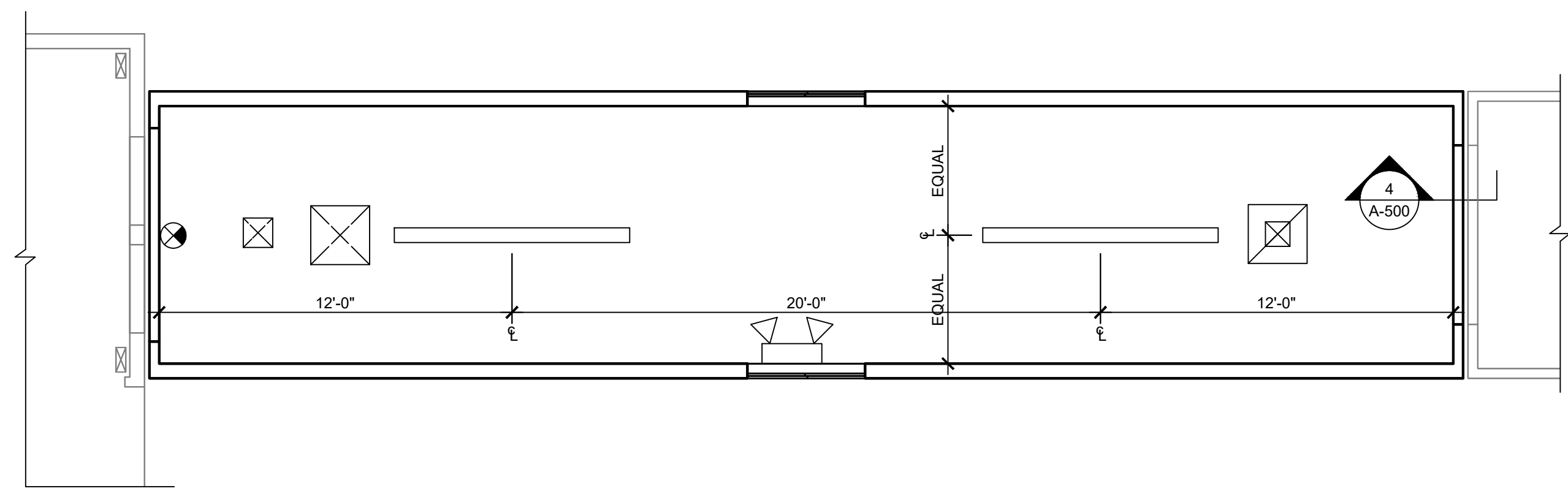


1 REFLECTED CEILING PLAN @ ENTRANCE CANOPY
A-107 SCALE: 1/4" = 1'-0"

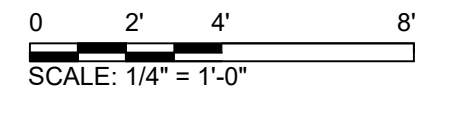
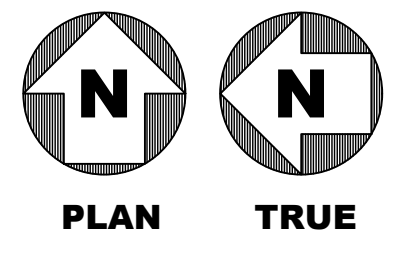
- LEGEND:** RE: MECHANICAL AND ELECTRICAL DWGS FOR LIGHT FIXTURE, SPRINKLER HEAD, AND DIFFUSER SPECIFICATIONS
- = SURFACE MOUNTED LED LIGHT FIXTURE
 - = 8' STRIP LIGHT
 - = EXIT LIGHT
 - = EXIT LIGHT WITH DIRECTIONAL INDICATORS
 - = EMERGENCY LIGHT
 - = RETURN AIR GRILLE
 - = SUPPLY AIR DIFFUSER



3 REFLECTED CEILING PLAN @ LOADING DOCK
A-107 SCALE: 1/4" = 1'-0"



2 REFLECTED CEILING PLAN @ CORRIDOR
A-107 SCALE: 1/4" = 1'-0"



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CRIOLLO LODGE

1218 KIZZER LANE
JAL, NEW MEXICO 88252

PROJECT NUMBER:
WFXP7601

DATE ISSUED:
10-3-19

ISSUES:

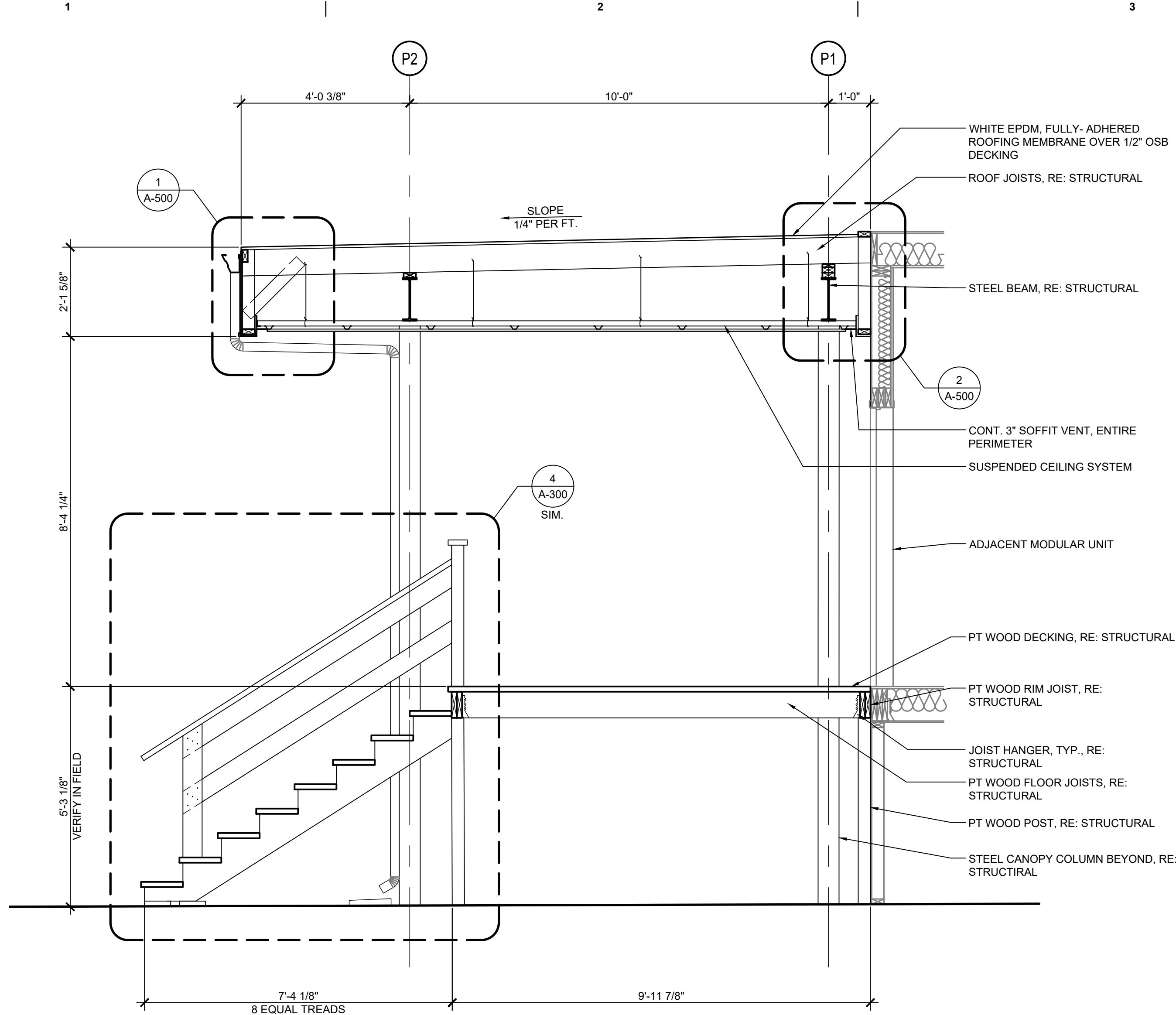
A: FOR REVIEW ONLY	10/3/19
B: INTERIM SUBMITTAL	5/01/2019
C: 95% PROGRESS SET	6/21/2019
D: FOR CONSTRUCTION	10/03/2019

REVISIONS:

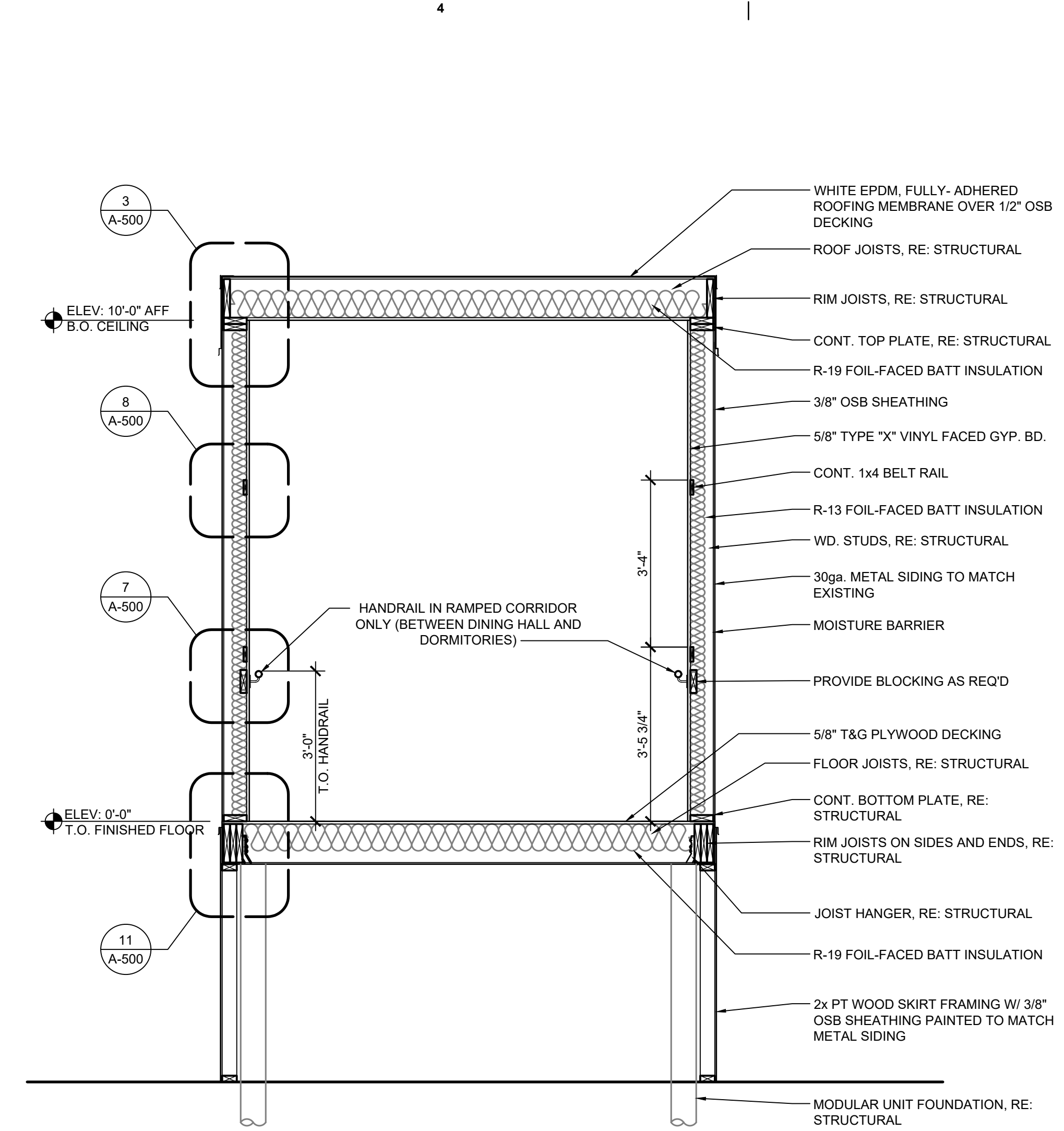
SHEET CONTENTS:
REFLECTED CEILING PLANS

SHEET NUMBER:
A-107

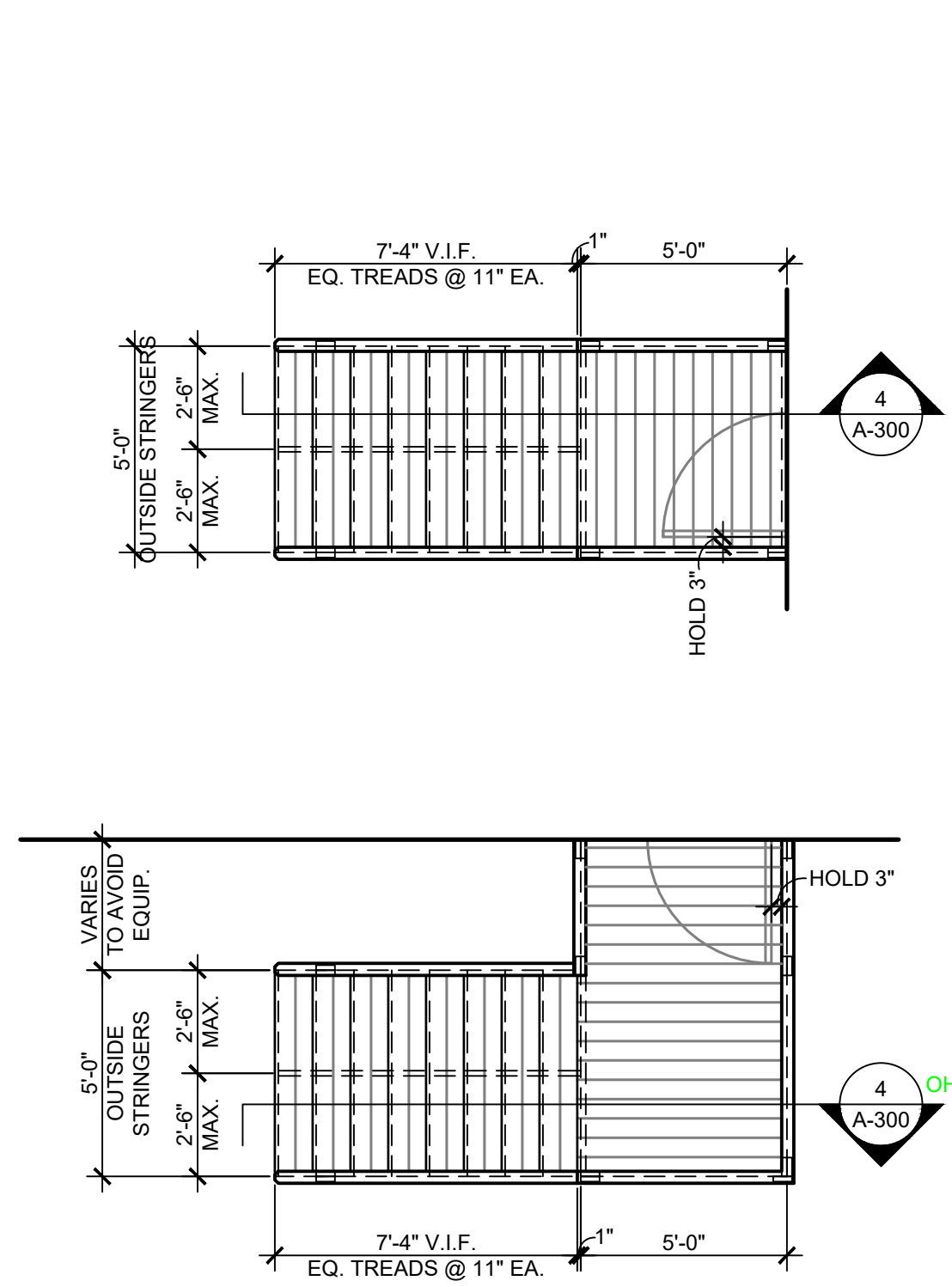
XXX



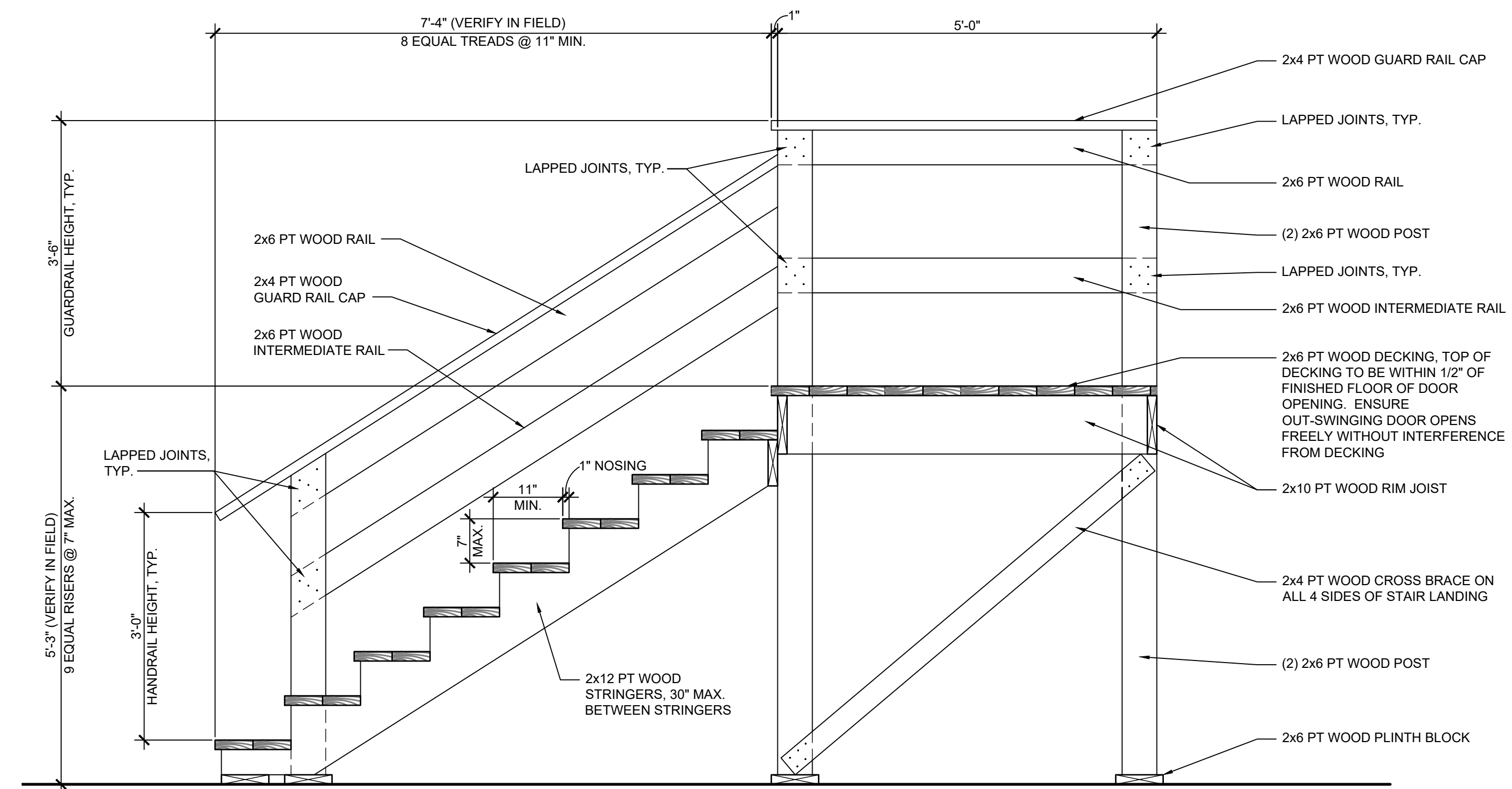
1 SECTION @ CANOPY
A-300 SCALE: 1/2" = 1'-0"



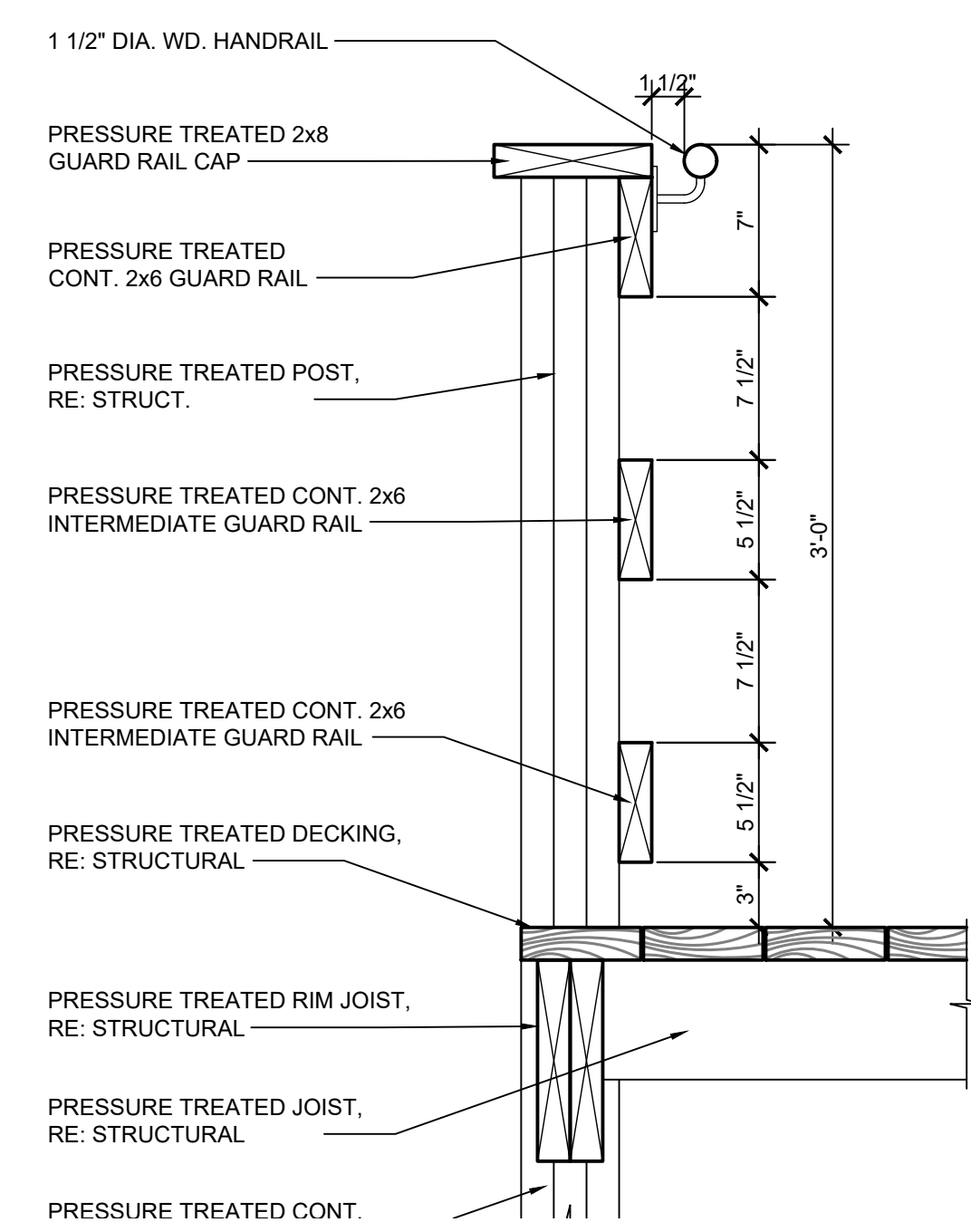
2 SECTION @ CORRIDOR
A-300 SCALE: 1/2" = 1'-0"



3 TYPICAL STAIR PLANS
A-300 SCALE: 1/4" = 1'-0"



4 SECTION @ STAIRS
A-300 SCALE: 3/4" = 1'-0"



5 DETAIL @ RAMP GUARDRAIL
A-300 SCALE: 1 1/2" = 1'-0"

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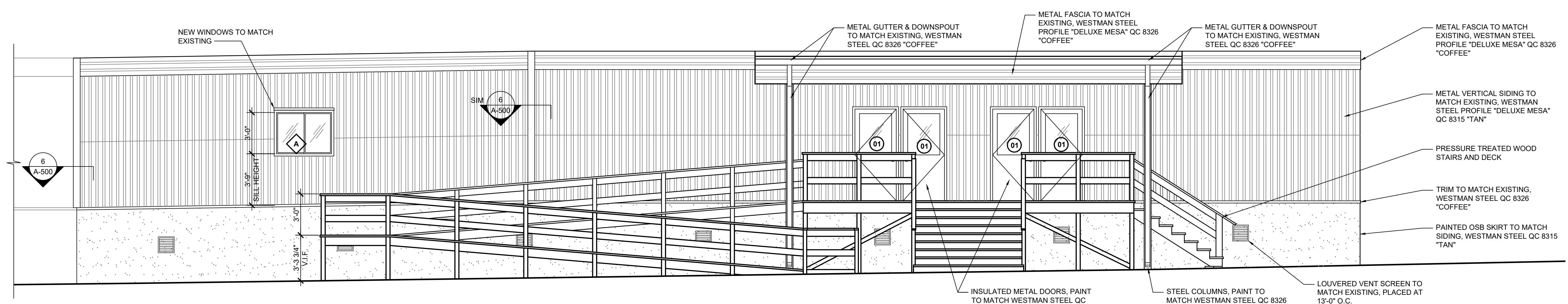
REVISIONS:	

SHEET CONTENTS:
EXTERIOR ELEVATIONS

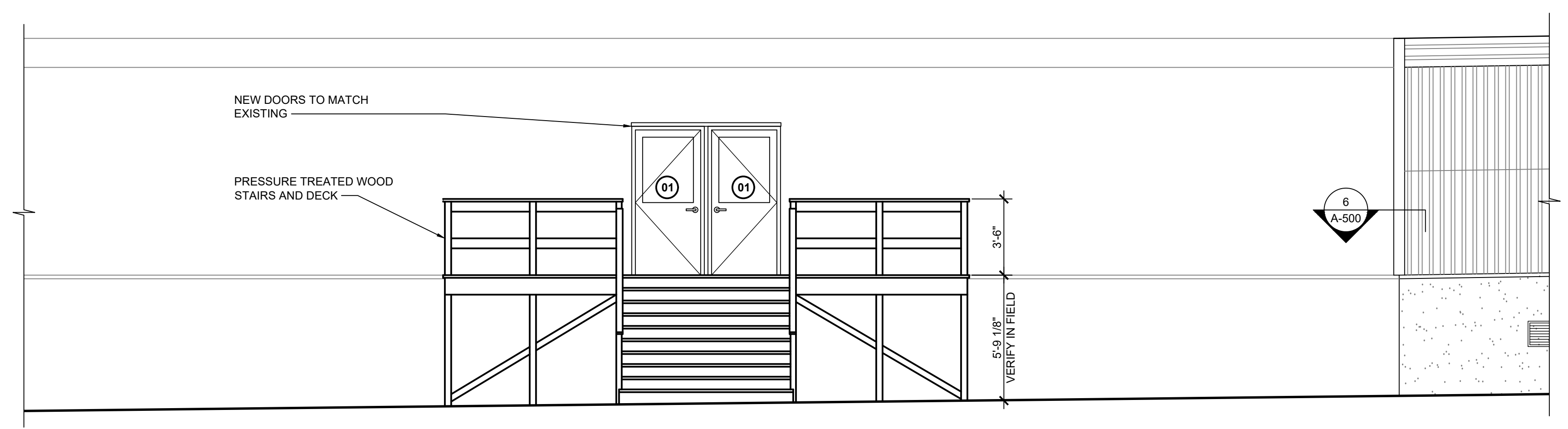
SHEET NUMBER:

A-301

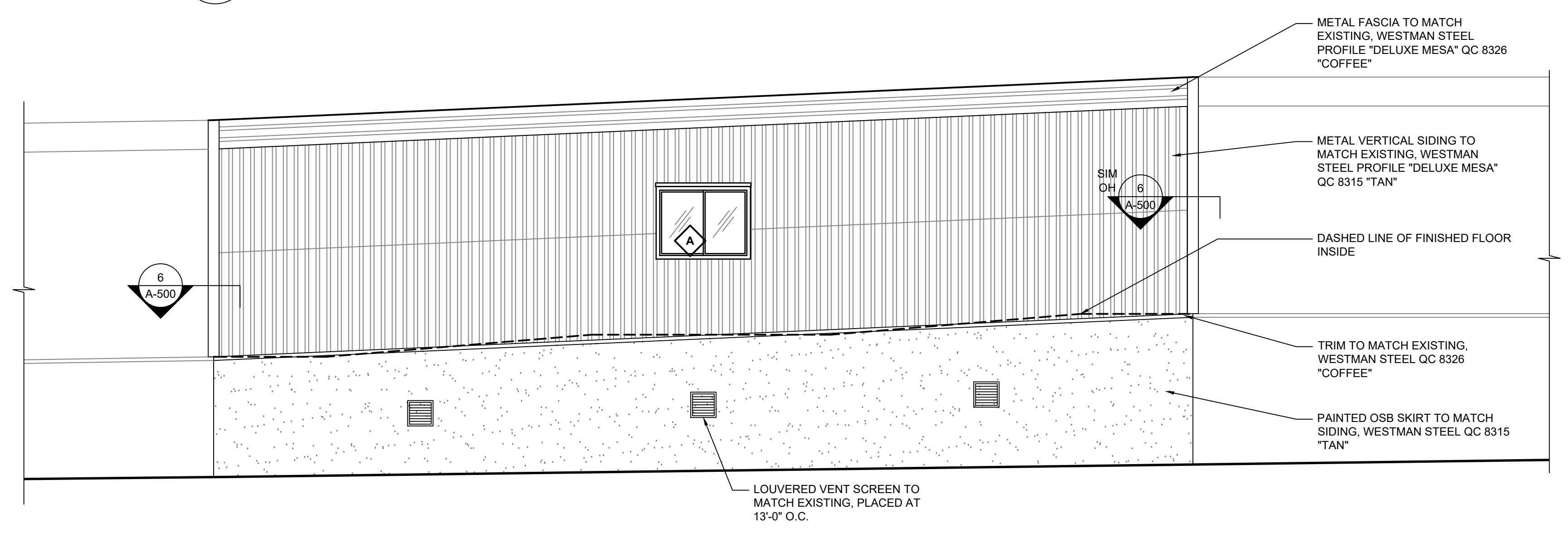
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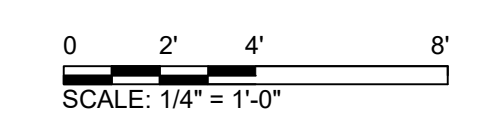
1 ELEVATION AT ENTRY CANOPY
A-301 SCALE: 1/4" = 1'-0"



2 ELEVATION AT DINING HALL ENTRY
A-301 SCALE: 1/4" = 1'-0"



3 ELEVATION AT RAMPED CORRIDOR
A-301 SCALE: 1/4" = 1'-0"

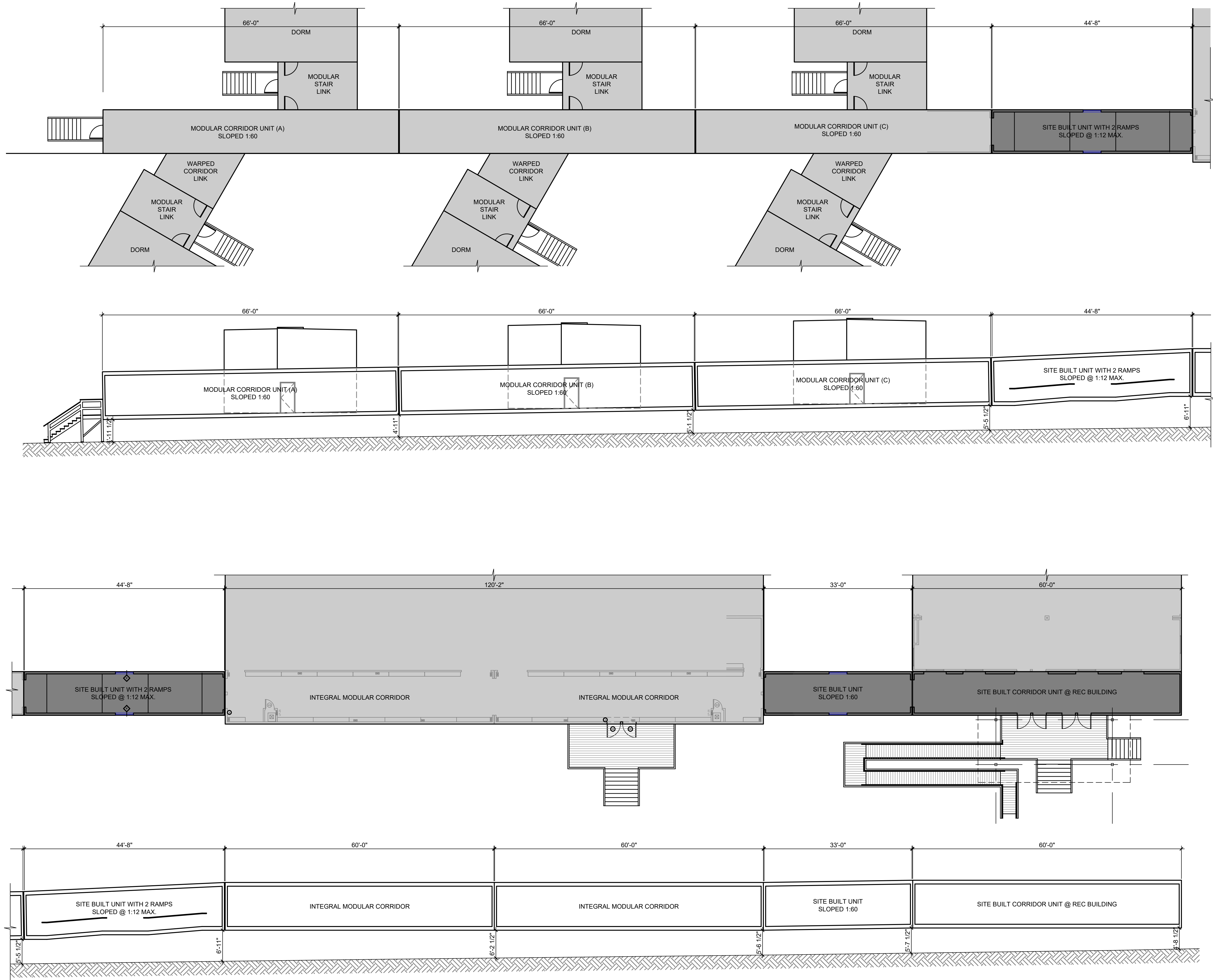


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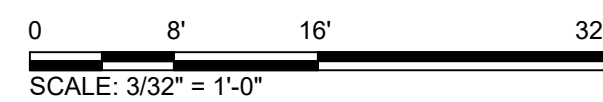
C

B

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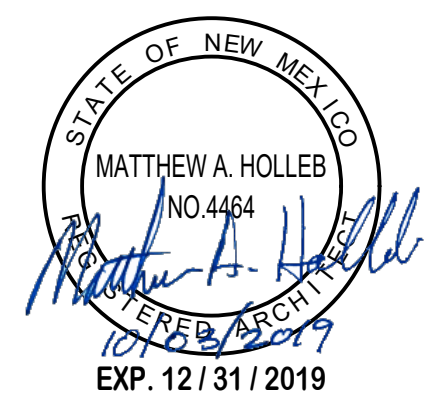


1 CORRIDOR LAYOUT - GRADE ELEVATIONS
A-302 SCALE: 3/32" = 1'-0"



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CRIOLLO LODGE
1218 KIZZER LANE
JAL, NEW MEXICO 88252

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C: 95% PROGRESS SET 6/21/2019
D: FOR CONSTRUCTION 10/03/2019

REVISIONS:

SHEET CONTENTS:
CORRIDOR LAYOUT AND
SECTIONS

SHEET NUMBER:

A-302

XXX

D

C

B

A



1 WEST DORMITORY LAYOUT - GRADE ELEVATIONS
A-303 SCALE: 3/32" = 1'-0"



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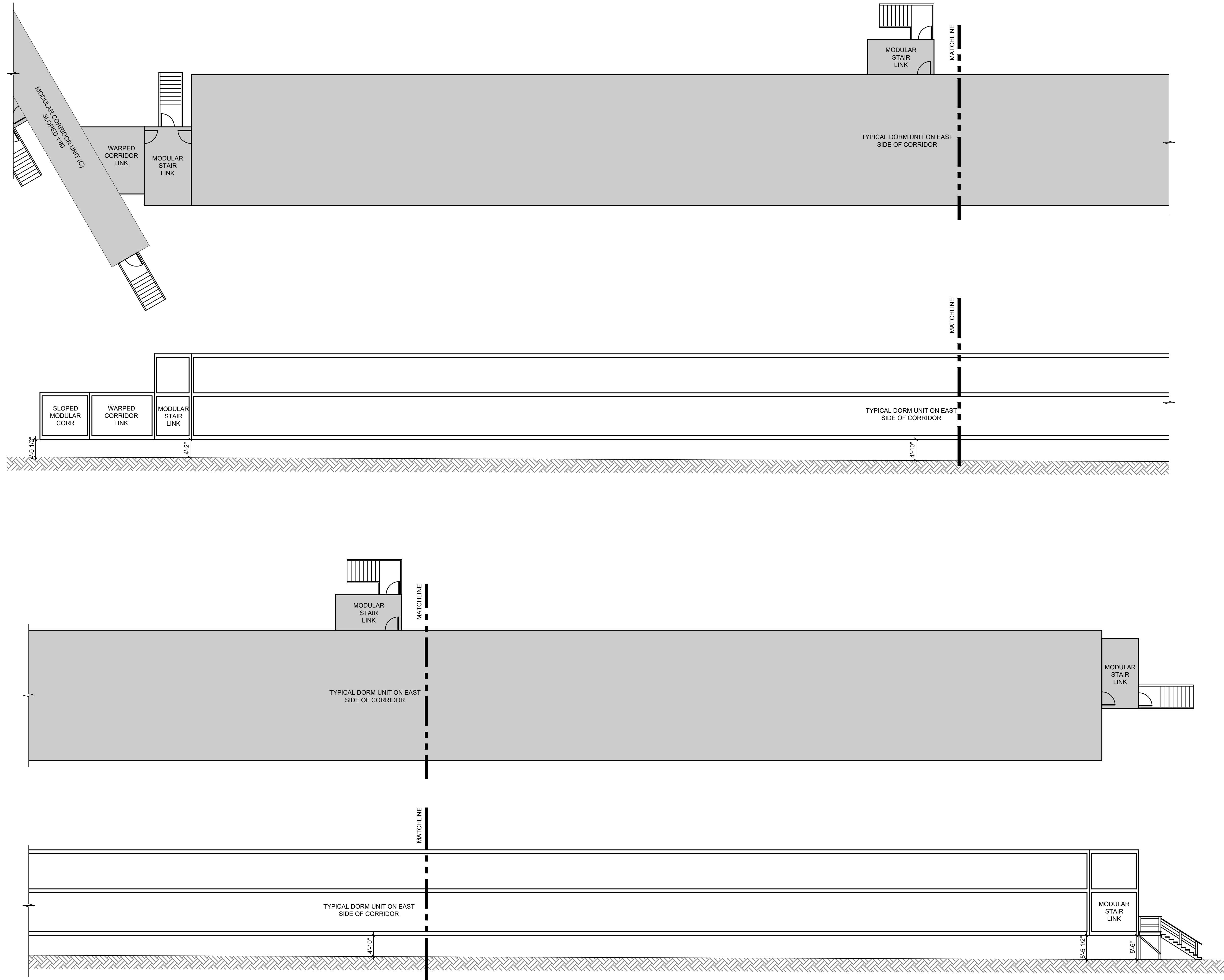
REVISIONS:

SHEET CONTENTS:
WEST DORMITORY LAYOUT
AND SECTIONS

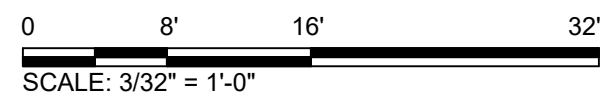
SHEET NUMBER:

A-303

XXX

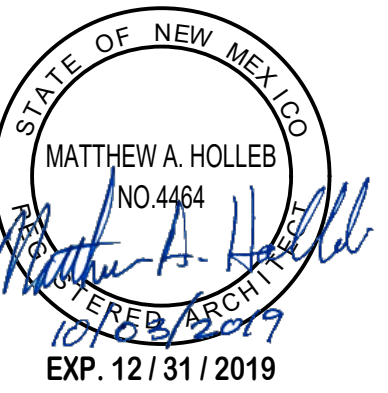


1 EAST DORMITORY LAYOUT - GRADE ELEVATIONS
A-304 SCALE: 3/32" = 1'-0"



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AMITY
LODGES

CRIOLLO LODGE
1218 KIZZER LANE
JAL, NEW MEXICO 88252

PROJECT NUMBER:

WFXP7601

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D: FOR CONSTRUCTION	10/03/2019

REVISIONS:

SHEET CONTENTS:

EAST DORMITORY LAYOUT
AND SECTIONS

SHEET NUMBER:

A-304

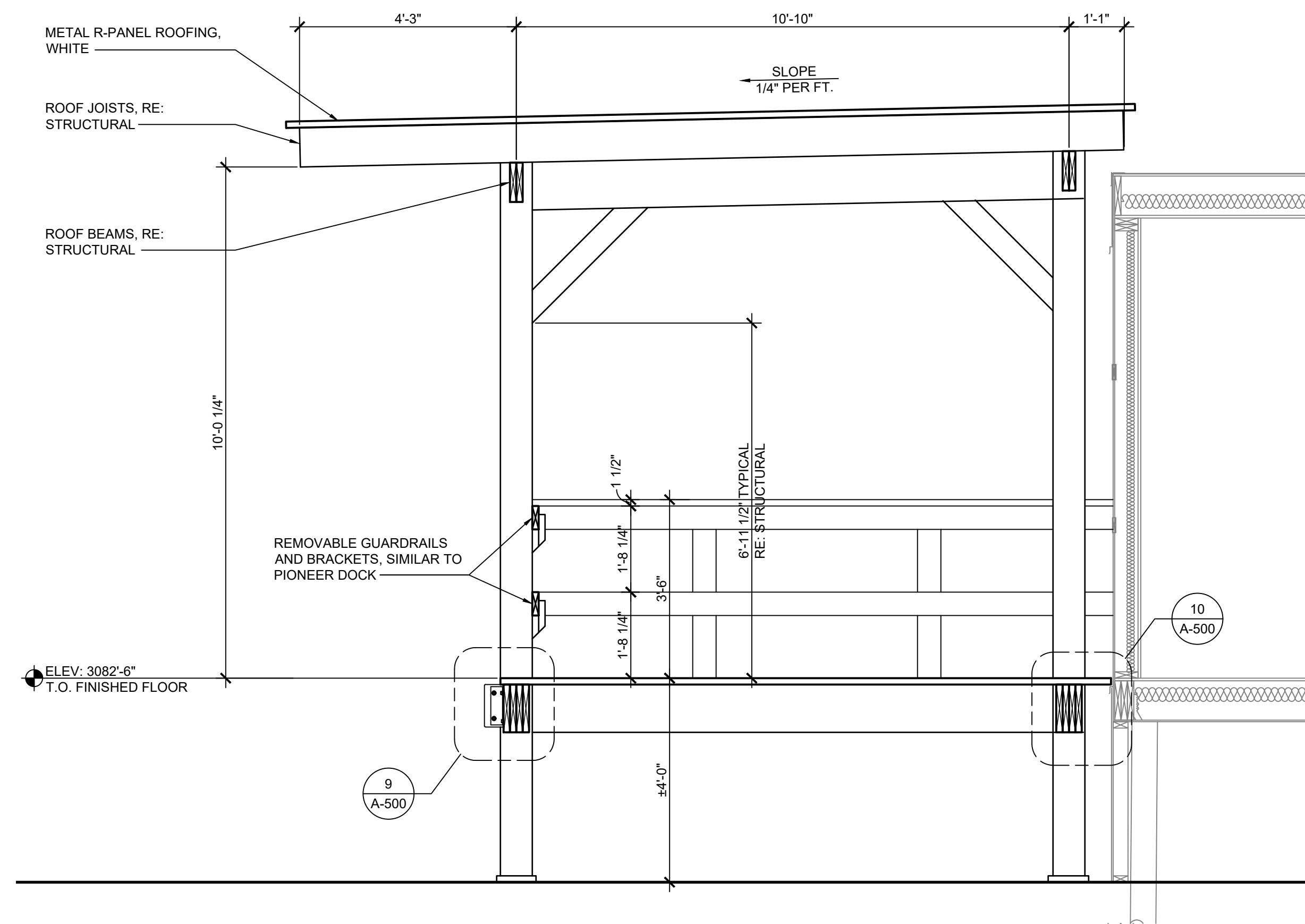
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D

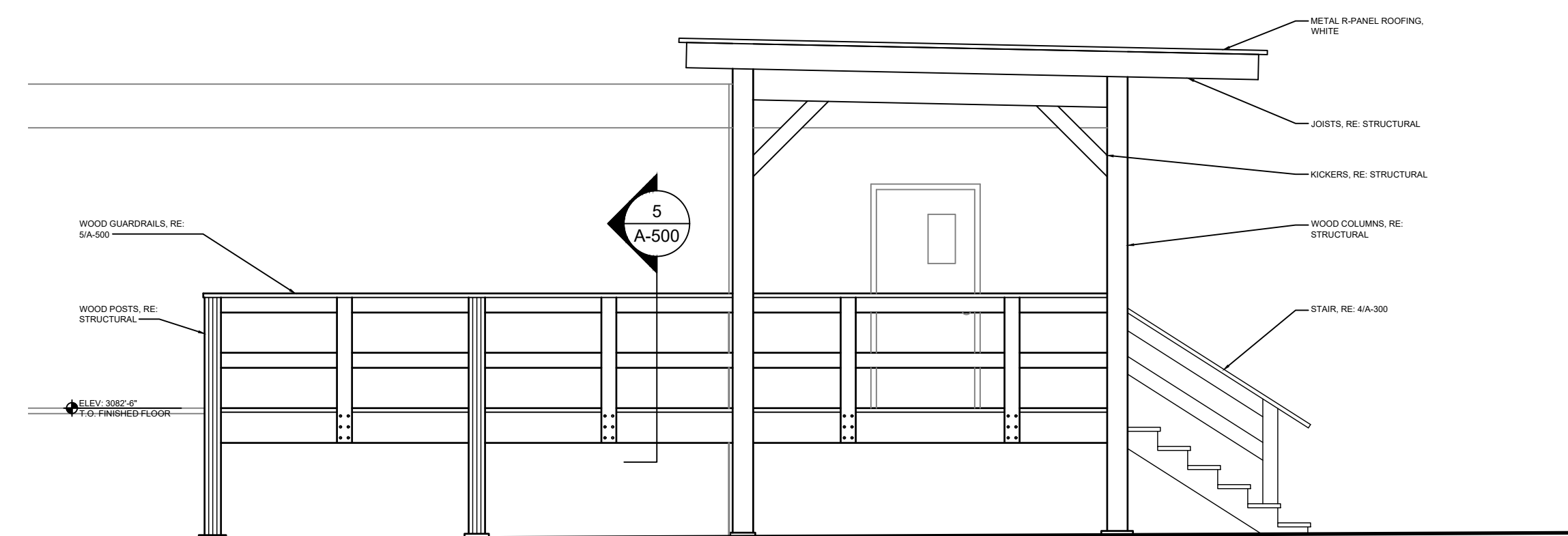
C

B

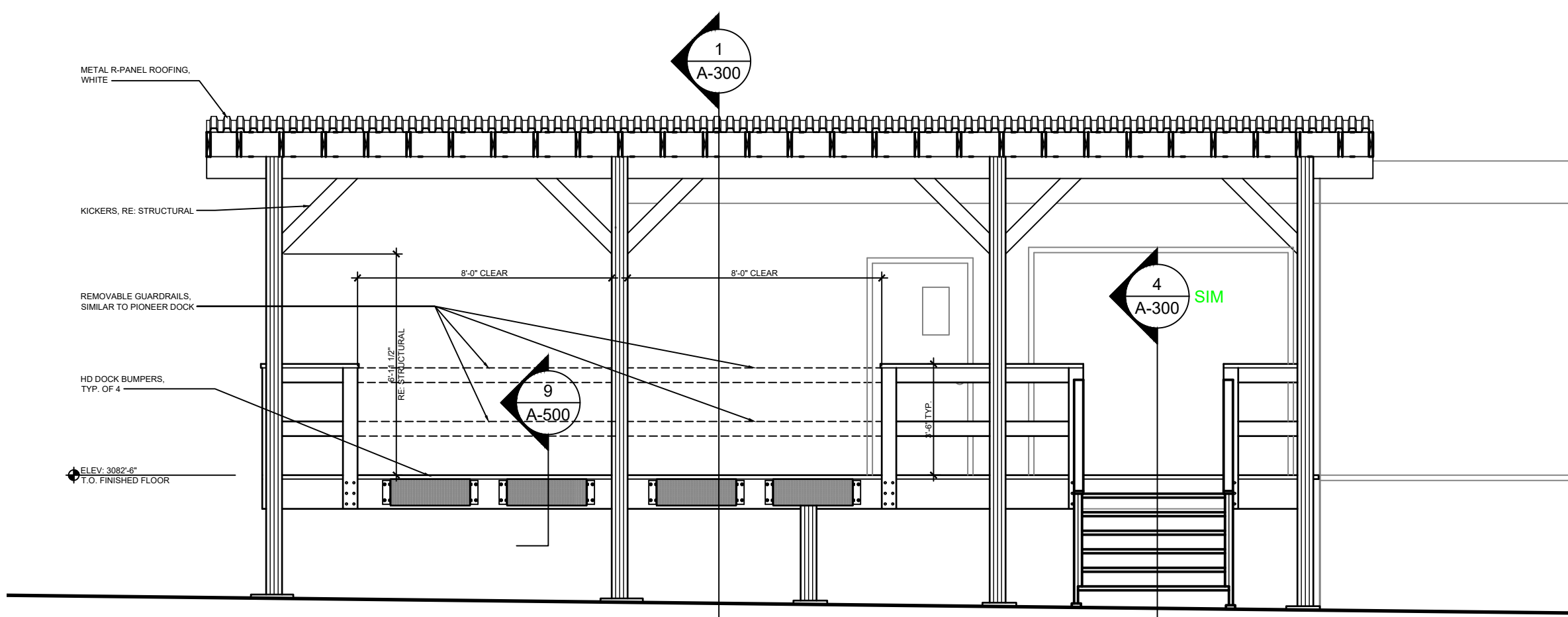
A



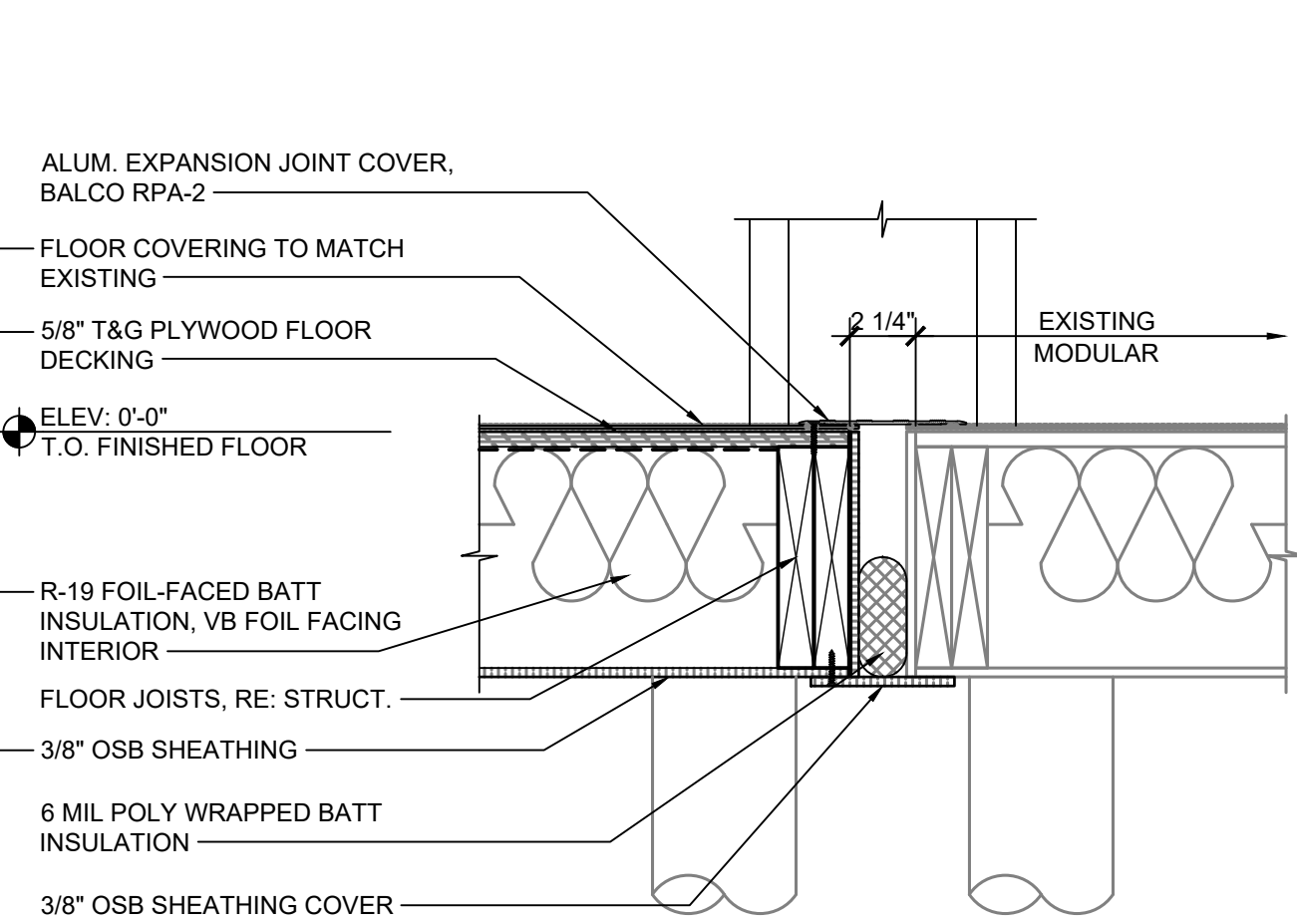
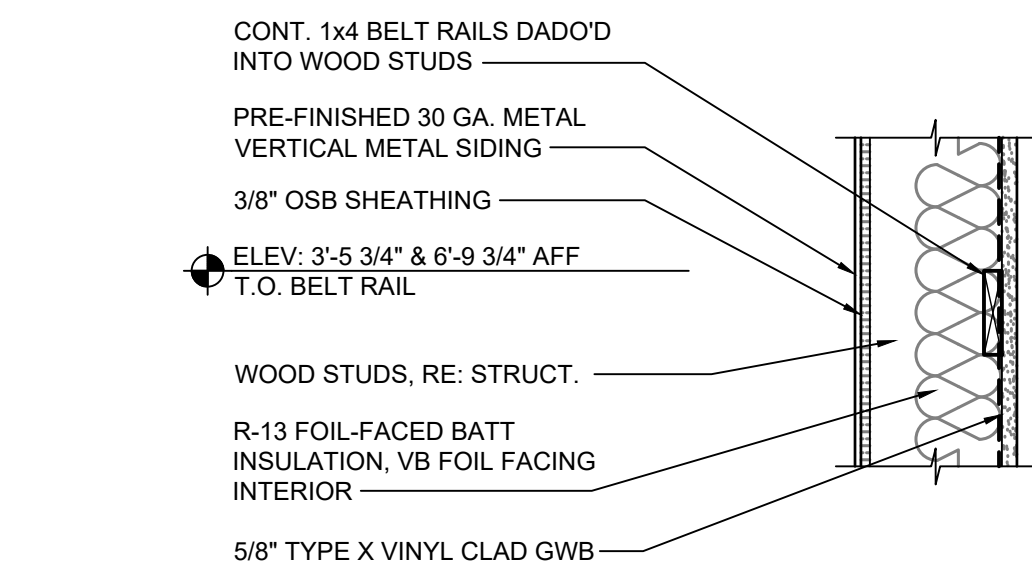
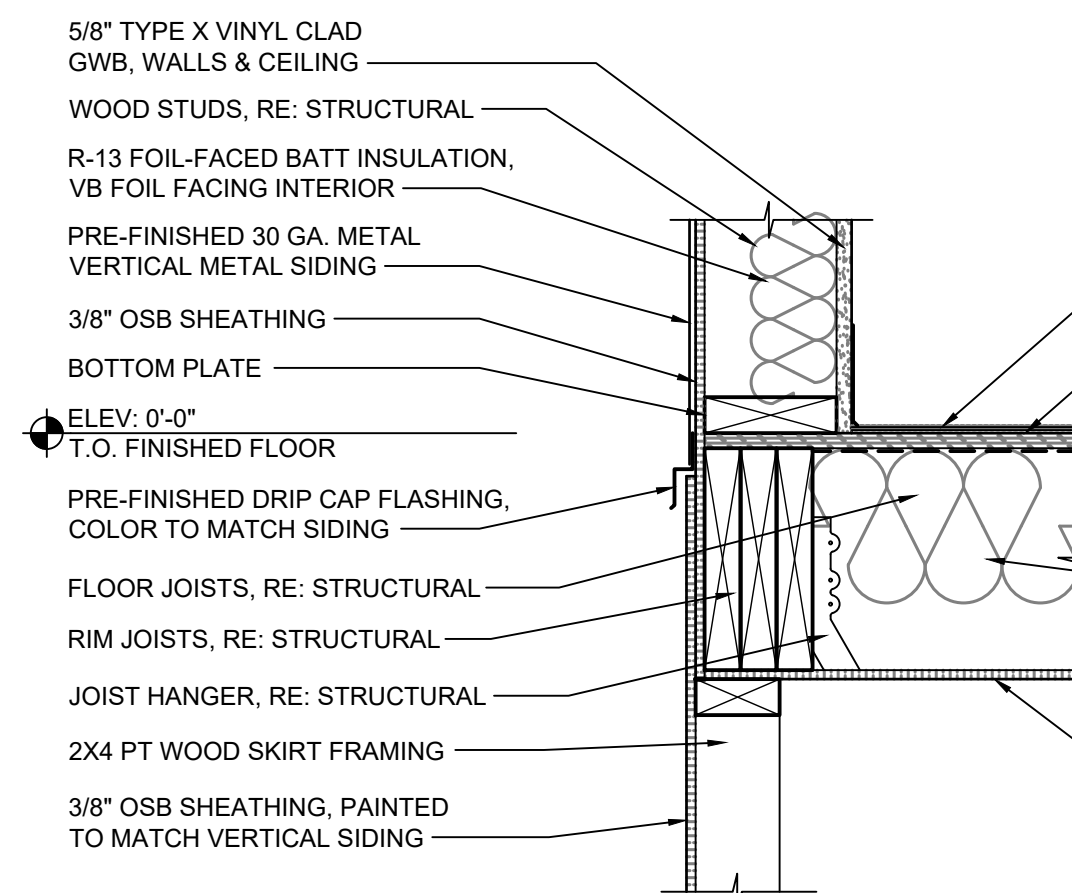
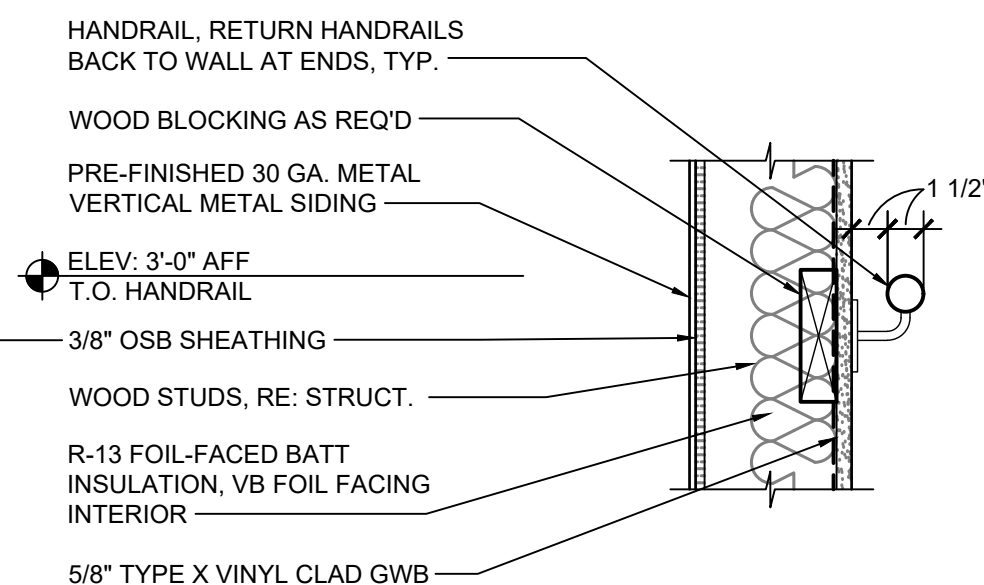
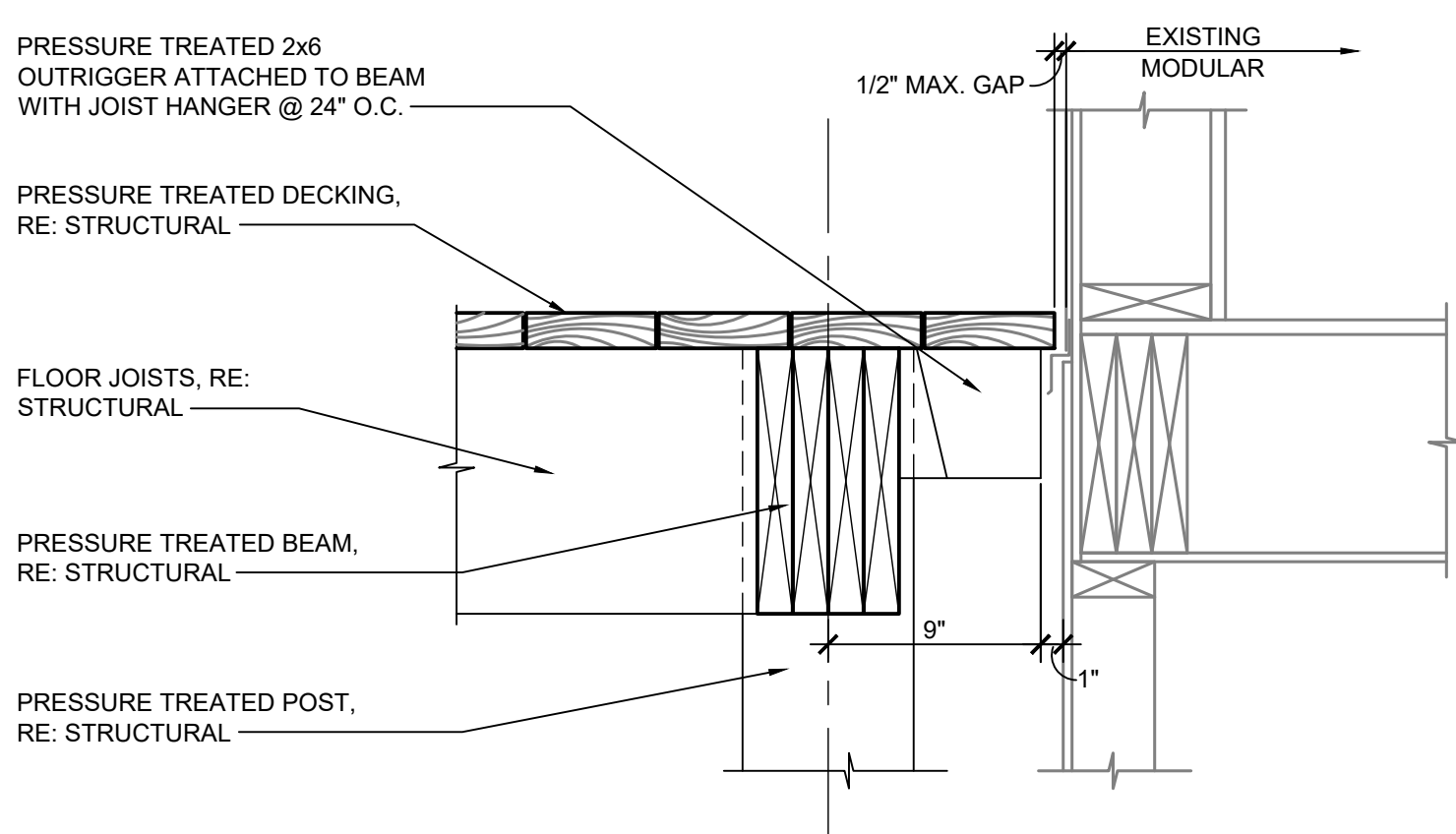
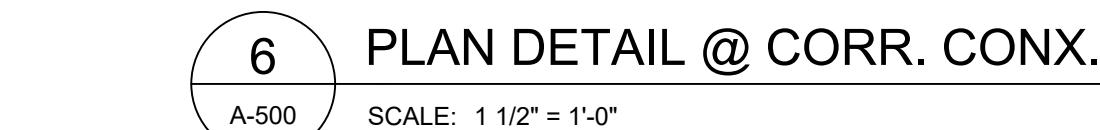
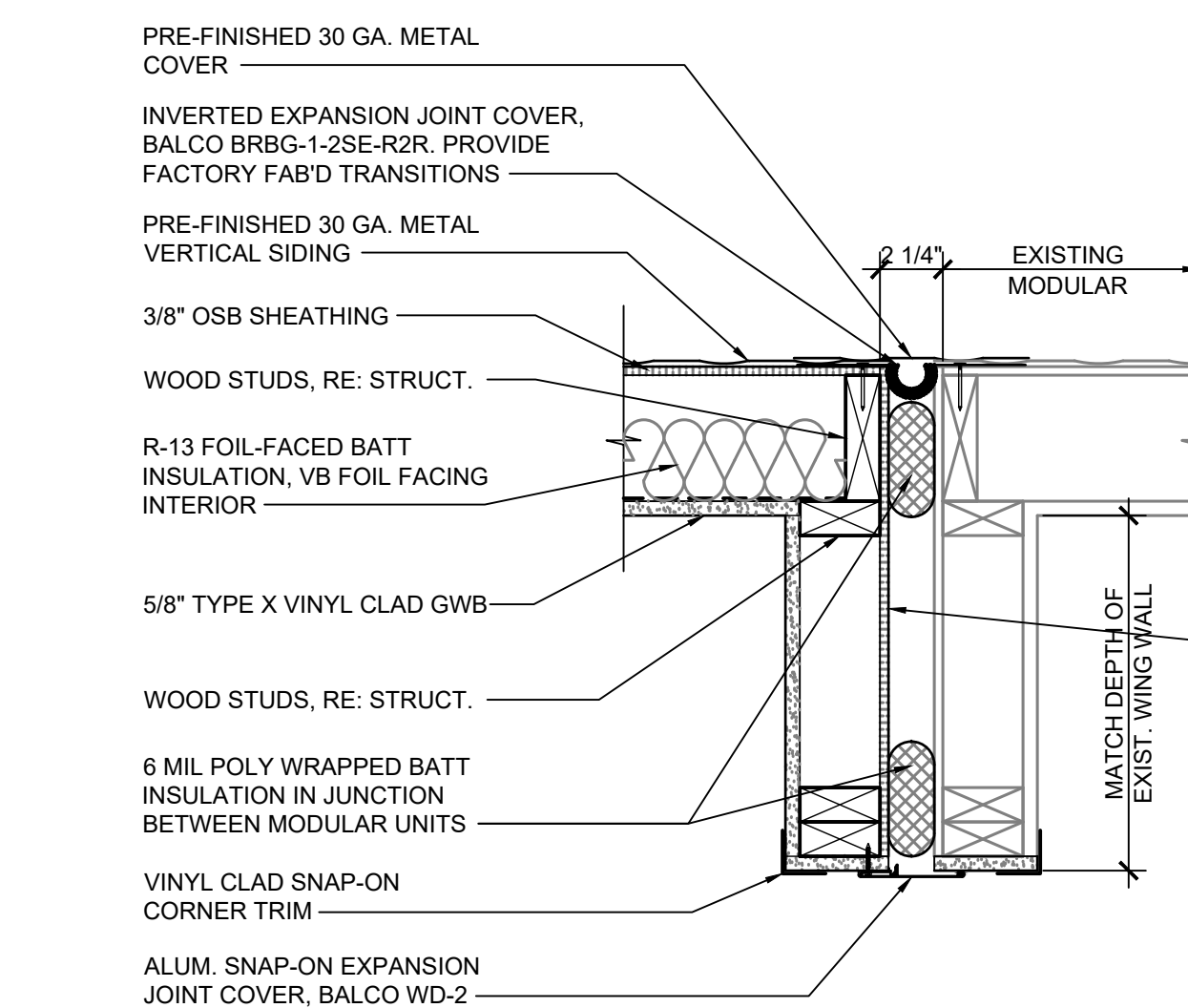
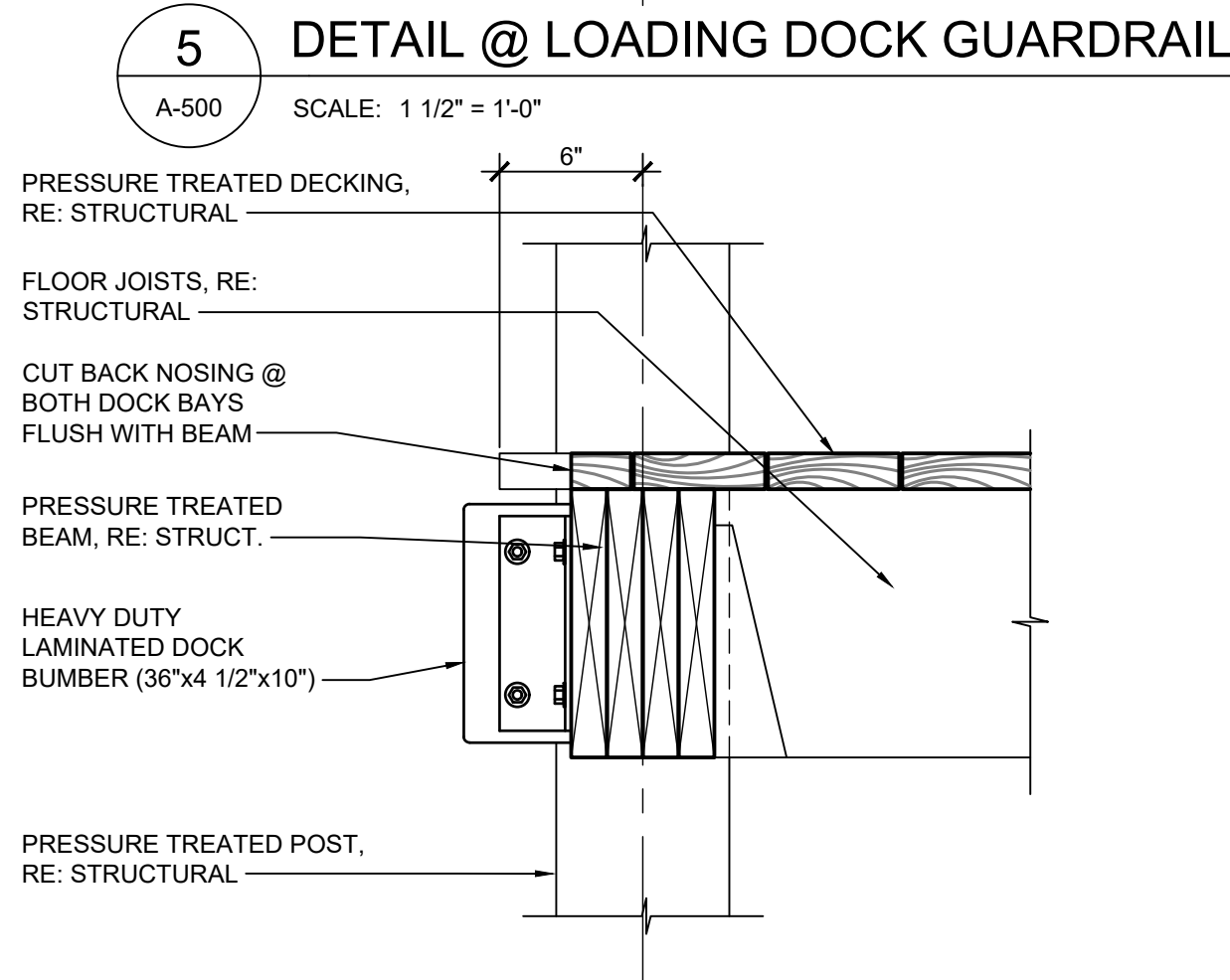
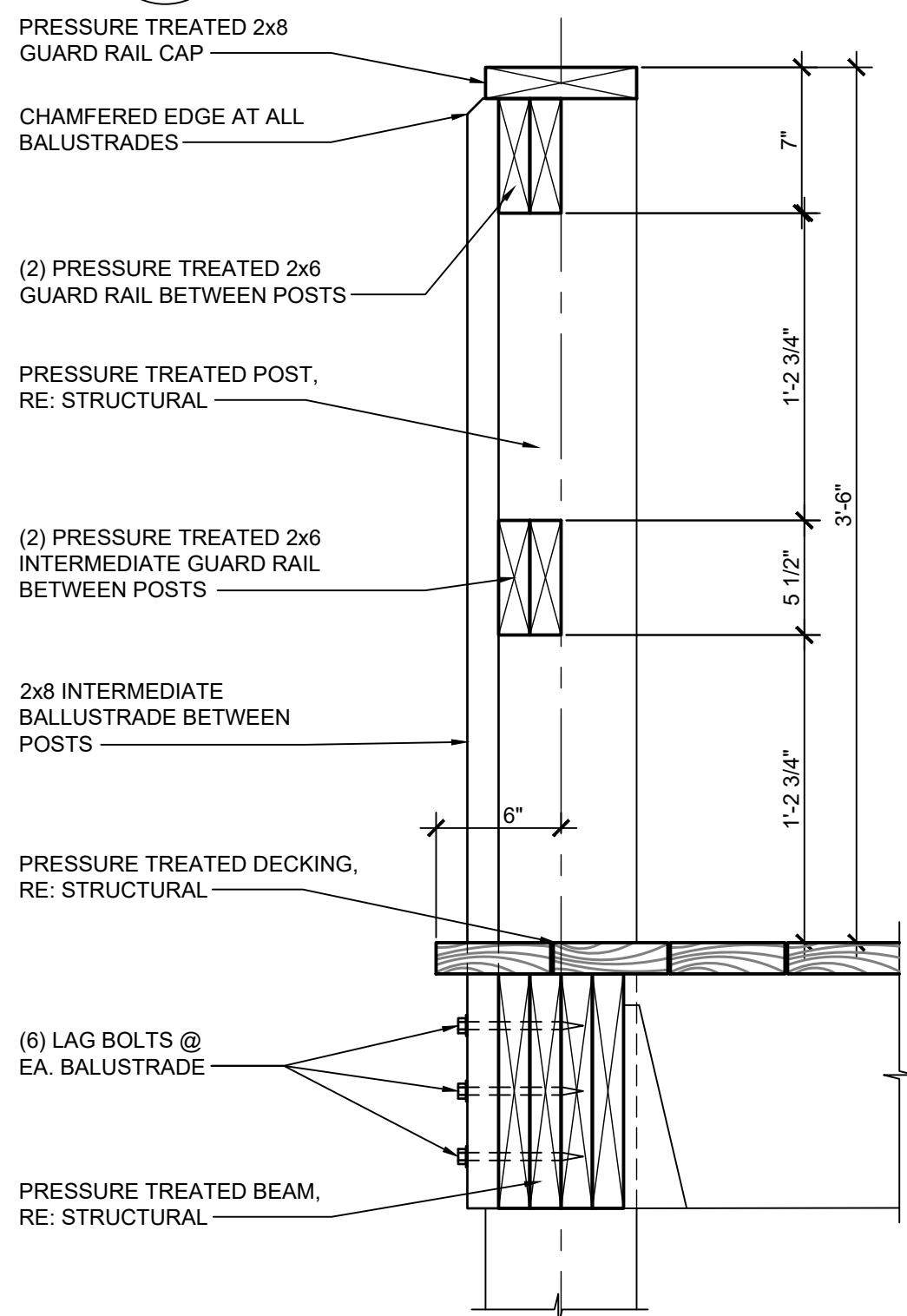
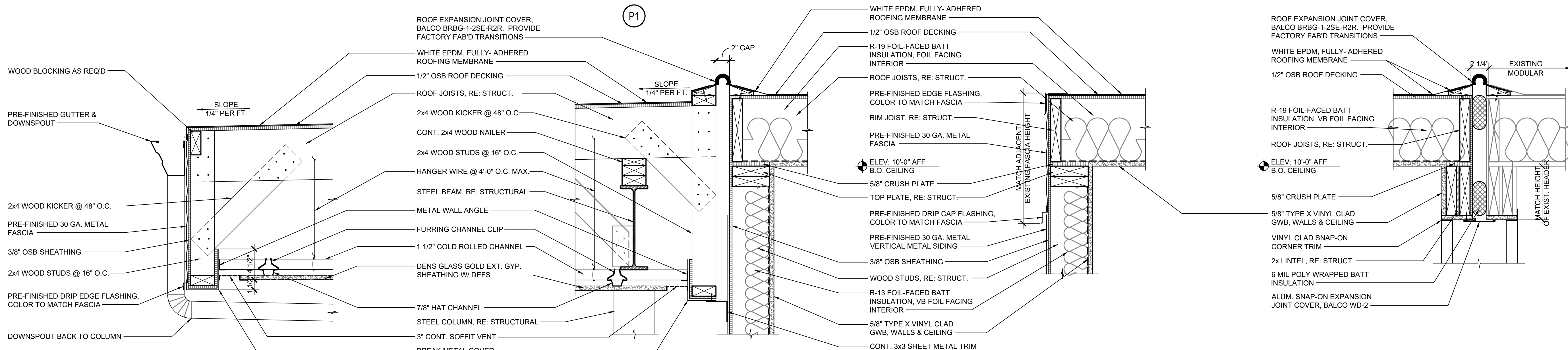
1 SECTION @ LOADING DOCK CANOPY
A-305 SCALE: 1/2" = 1'-0"





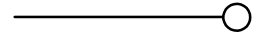
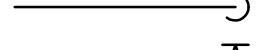



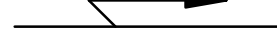







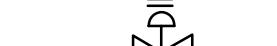
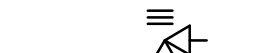


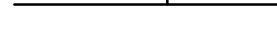

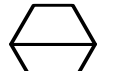
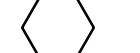
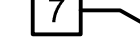















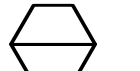
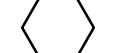
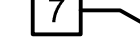


2 ELEVATION @ LOADING DOCK
A-305 SCALE: 1/4" = 1'-0"



3 ELEVATION @ LOADING DOCK
A-305 SCALE: 1/4" = 1'-0"



FIRE PROTECTION GENERAL NOTES & SYMBOLS (ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON PLANS)																															
FIRE SPRINKLER SYMBOLS		PIPING SYMBOLS	FIRE SPRINKLER GENERAL NOTES	FIRE ALARM GENERAL NOTES																											
<div><div></div>WET SPRINKLER SYSTEM RISER</div> <div><div></div>INSPECTOR'S TEST CONNECTION/AUXILIARY DRAIN</div> <div><div></div>PROPOSED FIRE HYDRANT</div> <div><div></div>4 IN X 2-1/2 IN X 2-1/2 IN FIRE DEPARTMENT CONNECTION</div>		<div><div></div>ELBOW UP</div> <div><div></div>ELBOW DOWN</div> <div><div></div>VALVE IN DROP</div> <div><div></div>VALVE IN CENTER DROP</div> <div><div></div>VALVE IN RISE</div> <div><div></div>DIRECTION OF FLOW</div> <div><div></div>DIRECTION OF SLOPE DOWN</div> <div><div></div>CONCENTRIC REDUCER</div> <div><div></div>ECCENTRIC REDUCER</div> <div><div></div>TEE OUTLET UP</div> <div><div></div>TEE OUTLET DOWN</div> <div><div></div>UNION</div> <div><div></div>STRAINER WITH BLOWDOWN VALVE</div> <div><div></div>GATE VALVE</div> <div><div></div>CHECK VALVE</div> <div><div></div>PRESSURE CONTROL VALVE</div> <div><div></div>RELIEF VALVE</div> <div><div></div>PRESSURE GAUGE WITH GAUGE COCK</div> <div><div></div>TEST PORT</div> <div>MISCELLANEOUS</div> <div><div></div>CALCULATION NODE POINT (2 NODES)</div> <div><div></div>CALCULATION NODE POINT (1 NODE)</div> <div><div></div>KEYNOTES (NOTES BY SYMBOL)</div>	<div><div><p>A. RECONSTRUCT EXISTING WET-PIPE SPRINKLER SYSTEMS IN MODULAR CAMP BUILDINGS AS NEEDED. FIELD VERIFY CONDITION OF SYSTEM PIPING AND COMPONENTS. CONFIRM REC HALL AND DINING HALL SYSTEMS ARE INSTALLED IN ACCORDANCE WITH 2016 NFPA 13. CONFIRM DORM SYSTEMS ARE INSTALLED IN ACCORDANCE WITH 2016 NFPA 13R.</p><p>B. EXTEND WET PIPE FIRE SPRINKLER PROTECTION INTO AREAS OF NEW CONSTRUCTION, INCLUDING CORRIDORS, IN ACCORDANCE WITH 2016 NFPA 13.</p><p>C. THE TOTAL CALCULATED WATER DEMAND FOR THE RECREATION AND DINING BUILDINGS IS THE SUM OF THE SPRINKLER SYSTEM DEMAND PLUS THE COMBINED HOSE STREAM ALLOWANCE REQUIRED PER NFPA 13.</p><p>D. WATER FLOW TEST DATA WAS CALCULATED BY SOUDER, MILLER & ASSOCIATES (SMA) TO BE 52 PSI STATIC, 20 PSI RESIDUAL, AT A FLOW OF 740 GPM. CONTRACTOR TO PERFORM WATER FLOW TEST ON SITE AND PROVIDE CALCULATIONS TO VERIFY SYSTEM DEMAND CAN BE SATISFIED BY AVAILABLE WATER SUPPLY WITH 10 PSI SAFETY FACTOR.</p><p>E. HYDRAULICALLY CALCULATE THE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13, NFPA 13R, AND THE DENSITY AND SPACING REQUIREMENTS LISTED IN THE SPRINKLER DESIGN CRITERIA SCHEDULE. AREAS OF SPRINKLER CALCULATION FOR THIS FACILITY ARE PERMITTED TO BE REDUCED FOR UTILIZING QUICK RESPONSE SPRINKLERS PER NFPA 13. FIELD VERIFY SYSTEM DESIGN AND LAYOUT PRIOR TO FABRICATION OR INSTALLATION.</p><p>F. INSTALL PIPE HANGERS ON ALL SPRINKLER PIPING PER NFPA 13 AND NFPA 13R.</p><p>G. INSTALL MANUAL OR AUTOMATIC AIR VENTING ON ALL SPRINKLER SYSTEMS IN ACCORDANCE WITH 2016 NFPA 13 SECTION 8.16.6.</p><p>H. DURING JUNE 11, 2019 FIRE MARSHAL REVIEW MEETING, UTILIZATION OF NFPA 1 FOR FIRE FLOW DEMAND REQUIREMENTS WAS AGREED UPON. DESIGN SYSTEM TO PROVIDE 1,125 GPM FOR A DURATION OF 2 HOURS IN ACCORDANCE WITH 2015 NFPA 1 SECTION 18.4.5.3.</p><p>I. PROVIDE QUICK RESPONSE CONCEALED OR RECESSED PENDENT SPRINKLERS FOR AREAS WITH SUSPENDED CEILINGS. PROVIDE QUICK RESPONSE BRASS UPRIGHT SPRINKLERS IN AREAS EXPOSED TO STRUCTURE.</p><p>J. SEE EXISTING ARCHITECTURAL DRAWINGS FOR ROOM FINISH SCHEDULE AND ROOM USE. SEE EXISTING ARCHITECTURAL REFLECTED CEILING PLANS FOR THE LOCATION OF ALL CEILING-MOUNTED DEVICES.</p><p>K. PROVIDE SLEEVES AND WALL PLATES FOR ALL PENETRATIONS THROUGH WALLS OR FLOORS THAT MIGHT INCLUDE DRILLING THROUGH CONCRETE, METAL, SHEETROCK, OR OTHER MATERIALS. FIELD VERIFY APPROXIMATE WALL AND FLOOR PENETRATIONS SHOWN ON THE PLANS. SEAL ALL PENETRATIONS IN RATED SEPARATION TO MEET THE MINIMUM FIRE RATINGS OF THE WALL OR FLOOR.</p><p>L. PROVIDE ACCESS DOORS AND SIGNAGE WHERE ACCESS IS REQUIRED TO CONCEALED SPRINKLER EQUIPMENT, VALVES, AND CONTROLS LOCATED IN WALLS OR ABOVE CEILINGS AS APPROVED BY AMITY AND THE ARCHITECT.</p><p>M. PROVIDE THREADED OR WELDED SCHEDULE 40 BLACK STEEL FOR 2-INCH AND SMALLER PIPE, AND THREADED, WELDED, OR ROLL-GROOVED SCHEDULE 40 OR 10 BLACK STEEL FOR 2 1/2-INCH AND LARGER PIPE. PIPE WITH A WALL THICKNESS LESS THAN SCHEDULE 40 SHALL NOT BE THREADED.</p><p>N. INVESTIGATE CONDITION OF EXISTING FIRE SPRINKLERS, PIPING, VALVES AND EQUIPMENT BEFORE REASSEMBLY. NOTIFY OWNER AND ENGINEER IN WRITING OF ANY DEFICIENCIES WITH THE POTENTIAL OF ADVERSELY IMPACTING THE PERFORMANCE OF THE SYSTEM. UPON COMPLETION OF SPRINKLER WORK, PERFORM FULL ACCEPTANCE TESTING ON ALL SPRINKLER PIPING IN ACCORDANCE WITH NFPA 13, NFPA 13R, NFPA 20, NFPA 22, NFPA 24 AND NFPA 25.</p><p>O. THESE DOCUMENTS DEPICT PERFORMANCE LEVEL ENGINEERING DESIGN CRITERIA TO BE UTILIZED AS GUIDANCE FOR THE PLANNING OF THE FIRE SPRINKLER SYSTEM BY THE CONTRACTOR. PROVIDE COMPLETE DOCUMENTS FOR REVIEW AND APPROVAL FROM THE ENGINEER AND THE AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION. INCLUDE IN THE SHOP DRAWINGS AND CALCULATIONS ANY ADDITIONAL EQUIPMENT NECESSARY TO PROVIDE A COMPLETE INSTALLATION AND COMPLY WITH LOCAL CODES AND AMENDMENTS.</p></div></div> <div>FIRE PUMP/ WATER STORAGE TANK GENERAL NOTES</div> <div><div><p>A. DUAL PURPOSE FIRE/DOMESTIC WATER STORAGE TANK TO BE PROVIDED BY OWNER. TANK MUST BE CAPABLE OF SUPPLYING A MINIMUM OF 135,000 GALLONS FOR FIRE PROTECTION, CALCULATED IN ACCORDANCE WITH 2015 NFPA 1 SECTION 18.4.5.3; TABLE 18.4.5.2.1 REQUIRES A FIRE FLOW RATE OF 4,500 GPM FOR 4 HOURS FOR THE MOST DEMANDING BUILDING ON SITE. THIS CAN BE REDUCED BY 75% IN ACCORDANCE WITH SECTION 18.4.5.3.2, RESULTING IN A FINAL FIRE FLOW DEMAND OF 1,125 GPM FOR 2 HOURS.</p><p>B. WATER SUPPLY MUST BE CAPABLE OF FILLING THE TANK AT A CALCULATED 282 GPM AT LEAST IN ORDER TO REFILL THE REQUIRED FIRE PROTECTION WATER VOLUME WITHIN THE TANK IN A MAXIMUM OF 8 HOURS IN ACCORDANCE WITH NFPA 22 SECTION 4.2.1.4.</p><p>C. WATER STORAGE TANK MUST BE MONITORED FOR LOW TEMPERATURE AND LOW WATER LEVEL BY FIRE ALARM CONTROL PANEL.</p><p>D. DOMESTIC WATER PIPES MUST BE ENTIRELY SEPARATE FROM FIRE PROTECTION PIPING AND MUST EXTEND TO AN ELEVATION INSIDE THE TANK ABOVE THAT REQUIRED FOR FIRE PROTECTION IN ACCORDANCE WITH NFPA 22 SECTION 14.1.7.1.1.</p><p>E. FIRE PUMP TO BE PROVIDED BY OWNER. FIRE PUMP MUST BE CAPABLE OF PROVIDING A MINIMUM 1125 GPM AT 20 PSI WITHOUT EXCEED 140% OF RATING IN ORDER TO MEET FIRE FLOW DEMAND. IN ADDITION, CONTRACTOR TO PROVIDE HYDRAULIC CALCULATIONS ESTABLISHING FIRE PUMP CAN MEET THE HYDRAULIC DEMAND OF ON SITE SPRINKLER SYSTEMS. THE FIRE PUMP WILL BE INSTALLED IN NEW FIRE PUMP HOUSE IN ACCORDANCE WITH 2016 NFPA 20. CONTRACTOR TO VERIFY CODE COMPLIANCE OF INSTALLATION AND THAT THE PUMP MEETS ESTABLISHED PERFORMANCE AS PART OF TESTING.</p><p>F. THESE DOCUMENTS DEPICT PERFORMANCE LEVEL ENGINEERING DESIGN CRITERIA TO BE UTILIZED AS GUIDANCE FOR THE PLANNING OF THE FIRE SPRINKLER SYSTEM BY THE CONTRACTOR. PROVIDE COMPLETE DOCUMENTS FOR REVIEW AND APPROVAL FROM THE ENGINEER AND THE AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION. INCLUDE IN THE SHOP DRAWINGS AND CALCULATIONS ANY ADDITIONAL EQUIPMENT NECESSARY TO PROVIDE A COMPLETE INSTALLATION AND COMPLY WITH LOCAL CODES AND AMENDMENTS.</p></div></div>	<div><div><p>A. RECONNECT EXISTING FIRE ALARM SYSTEMS IN MODULAR CAMP BUILDINGS. PERFORM ALL DESIGN AND INSTALLATION WORK IN ACCORDANCE WITH 2010 NFPA 72, ADA/ABA, STATE/LOCAL BUILDING AND FIRE CODES.</p><p>B. NOTED EXISTING FIRE ALARM CONTROL PANELS TO REMAIN. EXISTING NOTIFIER AFP-200 PANEL IS LOCATED IN REC HALL AND MONITORS ALL ADDITIONAL FIRE ALARM CONTROL PANELS SITE-WIDE INCLUDING: NOTIFIER CFP-2402B LOCATED IN AND MONITORING REC HALL, NOTIFIER SFP-10UD LOCATED IN AND MONITORING DINING HALL AND EACH MIRC0M BPS-1100 SIGNAL BOOSTER POWER SUPPLIES AND MONITOR MODULES FOR EACH DORM.</p><p>C. PROVIDE NEW FIRE ALARM CONTROL PANEL, LOCATED IN FIRE PUMP HOUSE, TO MONITOR FIRE PUMP, FIRE WATER STORAGE TANK AND FIRE PUMP HOUSE SPRINKLER SYSTEM DEVICES. EXISTING MAIN FIRE ALARM CONTROL PANEL TO MONITOR NEW FIRE PUMP HOUSE FIRE ALARM CONTROL PANEL.</p><p>D. RUN ALL WIRING IN MINIMUM 3/4" CONDUIT.</p><p>E. MOUNT ALL NEW NOTIFICATION APPLIANCES WITH THE BOTTOM OF THE STROBE LENS AT 80" AFF, OR 6" BELOW THE CEILING, WHICHEVER IS LOWER. THE TOP OF FIRE ALARM SYSTEM PANELS SHALL NOT BE INSTALLED HIGHER THAN 60 INCHES ABOVE FINISHED FLOOR LEVEL. EXTERIOR MASS NOTIFICATION LOUDSPEAKERS SHALL BE MOUNTED AT 96" AFF.</p><p>F. MOUNT THE OPERABLE PART OF MANUAL PULL STATIONS AT 48" AFF.</p><p>G. PROVIDE POWER LIMITED CIRCUITS.</p><p>H. DO NOT LOCATE DETECTORS IN DIRECT AIR OR CLOSER THAN 3 FEET FROM AN AIR SUPPLY OR RETURN DIFFUSER.</p><p>I. PROVIDE CONNECTIONS TO THE LIGHT AND POWER SERVICE IN ACCORDANCE WITH 2010 NFPA 72.</p><p>J. PROVIDE 16 AWG MINIMUM INITIATING DEVICE AND SIGNALING LINE CIRCUITS.</p><p>K. PROVIDE 16 AWG MINIMUM NOTIFICATION DEVICE CIRCUITS.</p><p>L. MAINTAIN EXISTING STROBES AND SPEAKER/STROBES THROUGHOUT THE BUILDING. FIELD VERIFY SPACING MEETS THE AUDIBILITY REQUIREMENTS OF NFPA 72. PROVIDE ADDITIONAL SPEAKERS AND STROBES AS NECESSARY.</p><p>M. MAINTAIN EXISTING CARBON MONOXIDE DETECTOR IN DORM UNITS AND ROOMS WITH FUEL-BURNING APPLIANCES AND CENTRALLY LOCATED WITHIN EACH AREA SERVED BY SEPARATE AIR HANDLERS PER NFPA 720. MONITOR CARBON MONOXIDE DETECTORS AS SUPERVISORY DEVICES BY THE FIRE ALARM CONTROL PANEL.</p><p>N. INVESTIGATE CONDITION OF EXISTING FIRE ALARM DEVICES, WIRING, PANELS AND APPLIANCES BEFORE REASSEMBLY. NOTIFY OWNER AND ENGINEER IN WRITING OF ANY DEFICIENCIES WITH THE POTENTIAL OF ADVERSELY IMPACTING THE PERFORMANCE OF THE SYSTEM. UPON COMPLETION OF FIRE ALARM WORK, PERFORM FULL ACCEPTANCE TESTING ON FIRE ALARM SYSTEM IN ACCORDANCE WITH NFPA 25 AND NFPA 72.</p><p>O. THESE DOCUMENTS DEPICT A PERFORMANCE LEVEL ENGINEERING DESIGN LAYOUT TO BE UTILIZED AS GUIDANCE FOR THE PLANNING OF THE FIRE ALARM SYSTEM BY THE CONTRACTOR. PROVIDE COMPLETE DOCUMENTS FOR REVIEW AND APPROVAL FROM THE ENGINEER AND THE AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION. INCLUDE IN THE SHOP DRAWINGS AND CALCULATIONS ANY ADDITIONAL EQUIPMENT NECESSARY, INCLUDING INITIATING DEVICES AND NOTIFICATION APPLIANCES, TO PROVIDE A COMPLETE INSTALLATION AND COMPLY WITH LOCAL CODES AND AMENDMENTS.</p></div></div>																											
FIRE ALARM SYMBOLS		MISCELLANEOUS	FIRE PUMP/ WATER STORAGE TANK GENERAL NOTES	FIRE PUMP WATER SUPPLY CURVE																											
<div><div><div>FACP</div>INTELLIGENT ADDRESSABLE FIRE ALARM CONTROL PANEL</div><div><div>RPS</div>FIRE ALARM REMOTE NOTIFICATION POWER SUPPLY</div><div><div>P</div>MANUAL PULL STATION WITH PROTECTIVE LEXAN COVER AND AUDIBLE ALARM THROUGHOUT BUILDING</div><div><div>KRS</div>KITCHEN HOOD SUPPRESSION SYSTEM RELEASING STATION</div><div><div>RAP</div>REMOTE ANNUNCIATTOR PANELS</div><div><div></div>PHOTOELECTRIC SMOKE DETECTOR</div><div><div>XX</div>FIRE ALARM WALL MOUNTED STROBE WITH CLEAR LENS AND WHITE FACEPLATE MARKED "FIRE" (NUMBER INDICATES MINIMUM CANDELA)</div><div><div>XX</div>FIRE ALARM WALL MOUNTED HORN/STROBE WITH CLEAR LENS AND WHITE FACEPLATE MARKED "FIRE" (NUMBER INDICATES MINIMUM CANDELA)</div><div><div>XX</div>FIRE ALARM CEILING MOUNTED STROBE WITH CLEAR LENS AND WHITE FACEPLATE MARKED "FIRE" (NUMBER INDICATES MINIMUM CANDELA)</div><div><div>XX</div>FIRE ALARM CEILING MOUNTED HORN/STROBE WITH CLEAR LENS AND WHITE FACEPLATE MARKED "FIRE" (NUMBER INDICATES MINIMUM CANDELA)</div><div><div>WP</div>EXTERIOR WEATHERPROOF MASS NOTIFICATION LOUDSPEAKER</div><div><div></div>WATER FLOW SWITCH</div><div><div></div>TAMPER SWITCH</div><div><div></div>SUPERVISORY SWITCH - HIGH AND LOW AIR PRESSURE</div><div><div></div>THERMAL DETECTOR (135° FIXED TEMPERATURE)</div><div><div>R</div>RETURN DUCT DETECTOR (SUPPLIED BY FIRE ALARM CONTRACTOR; INSTALLED BY MECHANICAL CONTRACTOR)</div><div><div>S</div>SUPPLY DUCT DETECTOR (SUPPLIED BY FIRE ALARM CONTRACTOR; INSTALLED BY MECHANICAL CONTRACTOR)</div><div><div>CO</div>CARBON MONOXIDE DETECTOR (MONITORED BY FACP)</div><div><div>R</div>CONTROL RELAY</div><div><div>BPS</div>BOOSTER POWER SUPPLY</div></div>		<div><div></div>CALCULATION NODE POINT (2 NODES)</div> <div><div></div>CALCULATION NODE POINT (1 NODE)</div> <div><div></div>KEYNOTES (NOTES BY SYMBOL)</div>	<div><div><p>A. DUAL PURPOSE FIRE/DOMESTIC WATER STORAGE TANK TO BE PROVIDED BY OWNER. TANK MUST BE CAPABLE OF SUPPLYING A MINIMUM OF 135,000 GALLONS FOR FIRE PROTECTION, CALCULATED IN ACCORDANCE WITH 2015 NFPA 1 SECTION 18.4.5.3; TABLE 18.4.5.2.1 REQUIRES A FIRE FLOW RATE OF 4,500 GPM FOR 4 HOURS FOR THE MOST DEMANDING BUILDING ON SITE. THIS CAN BE REDUCED BY 75% IN ACCORDANCE WITH SECTION 18.4.5.3.2, RESULTING IN A FINAL FIRE FLOW DEMAND OF 1,125 GPM FOR 2 HOURS.</p><p>B. WATER SUPPLY MUST BE CAPABLE OF FILLING THE TANK AT A CALCULATED 282 GPM AT LEAST IN ORDER TO REFILL THE REQUIRED FIRE PROTECTION WATER VOLUME WITHIN THE TANK IN A MAXIMUM OF 8 HOURS IN ACCORDANCE WITH NFPA 22 SECTION 4.2.1.4.</p><p>C. WATER STORAGE TANK MUST BE MONITORED FOR LOW TEMPERATURE AND LOW WATER LEVEL BY FIRE ALARM CONTROL PANEL.</p><p>D. DOMESTIC WATER PIPES MUST BE ENTIRELY SEPARATE FROM FIRE PROTECTION PIPING AND MUST EXTEND TO AN ELEVATION INSIDE THE TANK ABOVE THAT REQUIRED FOR FIRE PROTECTION IN ACCORDANCE WITH NFPA 22 SECTION 14.1.7.1.1.</p><p>E. FIRE PUMP TO BE PROVIDED BY OWNER. FIRE PUMP MUST BE CAPABLE OF PROVIDING A MINIMUM 1125 GPM AT 20 PSI WITHOUT EXCEED 140% OF RATING IN ORDER TO MEET FIRE FLOW DEMAND. IN ADDITION, CONTRACTOR TO PROVIDE HYDRAULIC CALCULATIONS ESTABLISHING FIRE PUMP CAN MEET THE HYDRAULIC DEMAND OF ON SITE SPRINKLER SYSTEMS. THE FIRE PUMP WILL BE INSTALLED IN NEW FIRE PUMP HOUSE IN ACCORDANCE WITH 2016 NFPA 20. CONTRACTOR TO VERIFY CODE COMPLIANCE OF INSTALLATION AND THAT THE PUMP MEETS ESTABLISHED PERFORMANCE AS PART OF TESTING.</p><p>F. THESE DOCUMENTS DEPICT PERFORMANCE LEVEL ENGINEERING DESIGN CRITERIA TO BE UTILIZED AS GUIDANCE FOR THE PLANNING OF THE FIRE SPRINKLER SYSTEM BY THE CONTRACTOR. PROVIDE COMPLETE DOCUMENTS FOR REVIEW AND APPROVAL FROM THE ENGINEER AND THE AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION. 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Jacobs

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NEW MEXICO

24233

PROFESSIONAL ENGINEER

Oct. 2, 2019

AMITY

LODGES

CRIOLLO LODGE

1218 KIZZER LANE

JAL., NEW MEXICO 88252

PROJECT NUMBER:
WFPX7601

DATE ISSUED:
10-3-19

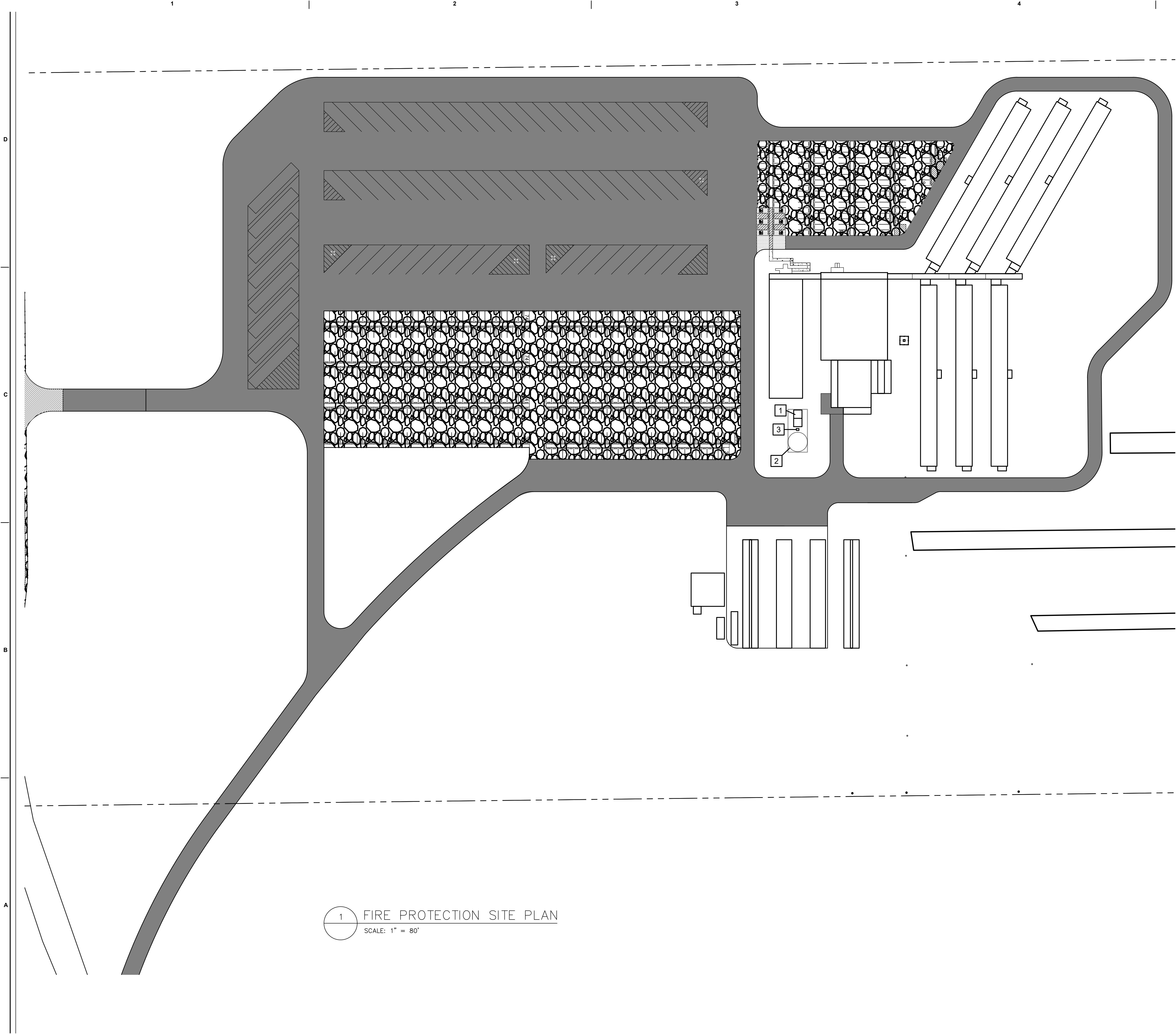
ISSUES:
A: FOR REVIEW ONLY 10/3/19
B: INTERIM SUBMITTAL 5/01/2019
C: 95% PROGRESS SET 6/21/2019
D: FOR CONSTRUCTION 10/03/2019

REVISIONS:

SHEET CONTENTS:
SYMBOLS ABBREVIATIONS
AND GENERAL NOTES

SHEET NUMBER:
F-001

XXX



KEYNOTES

- 1 LOCATION OF 1000 GPM DIESEL FIRE PUMP SUPPLYING DEDICATED FIRE LOOP. FIRE PUMP EQUIPMENT TO BE SUPPLIED BY OWNER. PUMPS TO BE INSTALLED IN ACCORDANCE WITH NFPA 20.
- 2 PROVIDE NEW DUAL PURPOSE DOMESTIC/FIRE PROTECTION WATER STORAGE TANK TO SUPPLY NEW DEDICATED FIRE LOOP FEEDING PRIVATE FIRE HYDRANTS AND SPRINKLER SYSTEMS. DESIGN AND INSTALL IN ACCORDANCE WITH NFPA 22.
- 3 PROVIDE NEW DOUBLE CHECK VALVE ASSEMBLY BACKFLOW PREVENTER BETWEEN THE FIRE WATER STORAGE TANK AND THE FIRE WATER PUMP HOUSE. PROVIDE INSULATION AND WEATHERPROOFING. DESIGN AND INSTALL IN ACCORDANCE WITH NFPA 22.

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REVISIONS:

SHEET CONTENTS:
FIRE PROTECTION SITE
PLAN

SHEET NUMBER:
F-100

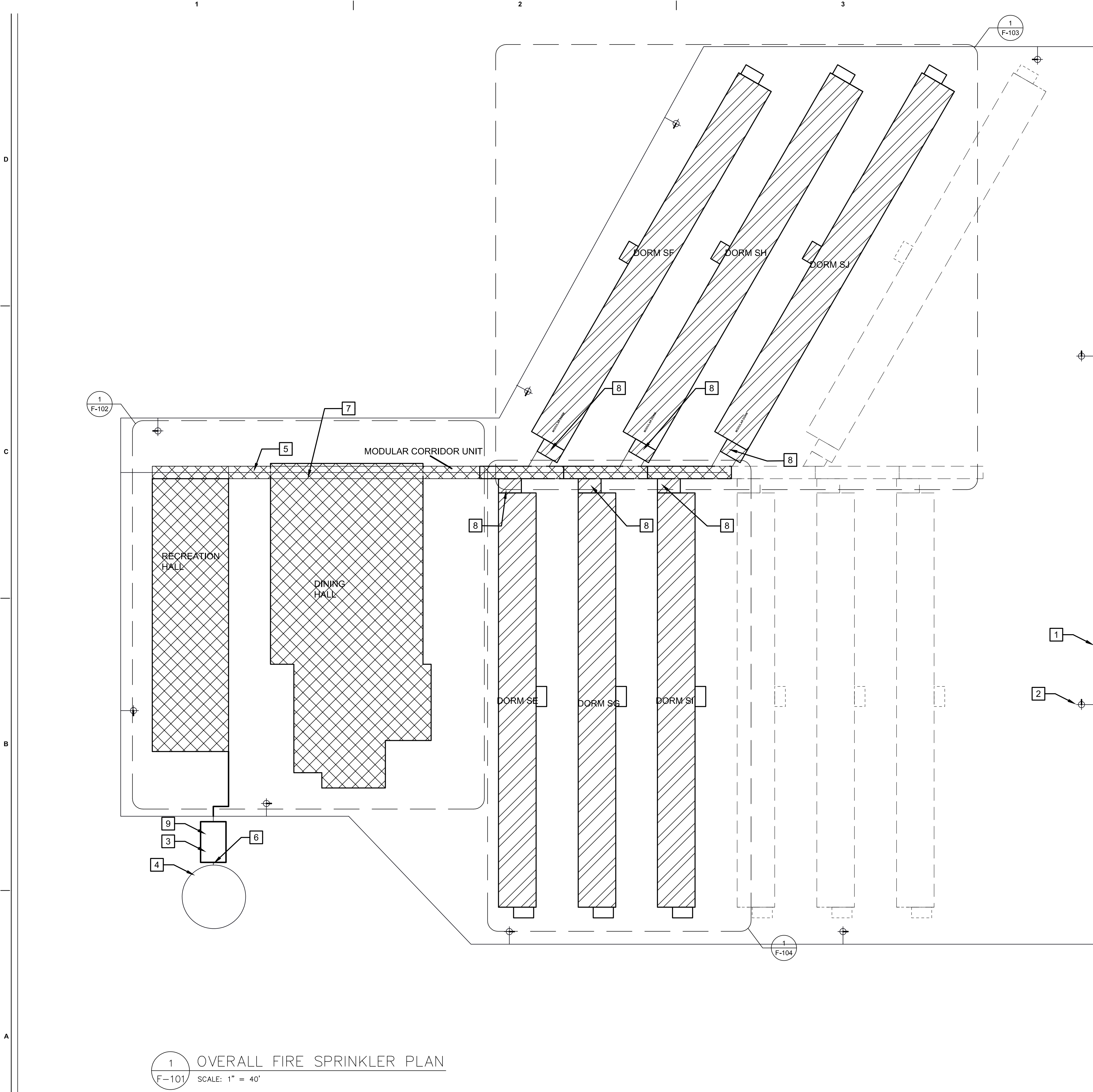
PLAN

TRUE

050'100'200'300'

1" = 100'-0"

XXX



GENERAL NOTES

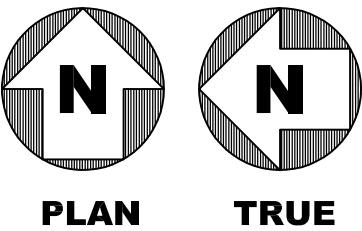
- 1. REFER TO SHEET F-001 FOR GENERAL NOTES AND SYMBOLS.
- 2. FIELD VERIFY CONDITION AND CODE COMPLIANCE OF EXISTING FIRE SPRINKLER SYSTEM PIPING AND COMPONENTS.
- 3. DASHED BUILDING LINES INDICATE PROPOSED LOCATIONS OF FUTURE DORMITORY BUILDINGS.

KEYNOTES

- 1 CIVIL TO PROVIDE NEW UNDERGROUND DEDICATED 8" FIRE LOOP.
- 2 PROVIDE FIRE HYDRANTS PER IFC AND NFPA 24.
- 3 INSTALL A-C FIRE PUMP SYSTEMS, TYPE 8100 DIESEL FIRE PUMP RATED FOR 1000 GPM AT 120 PSI TO FEED DEDICATED FIRE LOOP. OWNER TO PROVIDE FIRE PUMP. DESIGN AND INSTALL IN ACCORDANCE WITH NFPA 20.
- 4 PROVIDE A NEW DUAL PURPOSE FIRE PROTECTION/DOMESTIC WATER STORAGE TANK. SIZE TANK TO PROVIDE A MINIMUM OF 135,000 GALLONS OF FIRE PROTECTION WATER TO DEDICATED FIRE LOOP FEEDING PRIVATE HYDRANTS AND SPRINKLER SYSTEMS. DESIGN AND INSTALL IN ACCORDANCE WITH NFPA 22.
- 5 CONNECT LEAD-IN FROM NEW DEDICATED FIRE LOOP TO NEW 8" FIRE MAIN RUNNING THROUGH MODULAR CORRIDOR UNITS. TIE EXISTING FIRE SPRINKLER RISERS INTO NEW 8" FIRE MAIN IN MODULAR CORRIDOR UNITS
- 6 PROVIDE DOUBLE CHECK VALVE BACKFLOW PREVENTER ASSEMBLY ON TANK OUTLET UPSTREAM OF FIRE PUMP SUCTION INLET. PROVIDE FREEZE PROTECTION AND WEATHERPROOFING FOR BACKFLOW PREVENTER
- 7 LOCATION OF EXISTING WET PIPE SPRINKLER RISERS FOR RECREATION AND DINNING HALL SPRINKLER SYSTEM
- 8 LOCATION OF EXISTING FLOOR CONTROL VALVE ASSEMBLY FOR RESIDENTIAL UNIT SPRINKLER. (RESIDENTIAL UNITS ARE ZONED BY FLOOR.)
- 9 PROVIDE NEW WET PIPE FIRE SPRINKLER SYSTEM IN FIRE PUMP HOUSE. INSTALL IN ACCORDANCE WITH NFPA 13. FIRE PUMP HOUSE TO BE MAINTAINED ABOVE 40F DEGREES AT ALL TIMES.

FIRE SPRINKLER DESIGN CRITERIA

PATTERN	OCCUPANCY	SYSTEM TYPE	DENSITY/ AREA	HOSE ALLOWANCE	MAXIMUM SPRINKLER COVERAGE
	LIGHT HAZARD	WET PIPE SPRINKLER SYSTEM	0.10 GPM/SF OVER MOST REMOTE 1,500 SF	250 GPM	225 SF
	RESIDENTIAL	WET PIPE SPRINKLER SYSTEM	0.05 GPM/SF OVER 4 MOST DEMANDING SPRINKLERS	N/A	FOLLOW MANU'R'S REQ'S
	ORDINARY HAZARD GROUP 1	WET PIPE SPRINKLER SYSTEM	0.15 GPM/SF OVER MOST REMOTE 1,500 SF	250 GPM	130 SF



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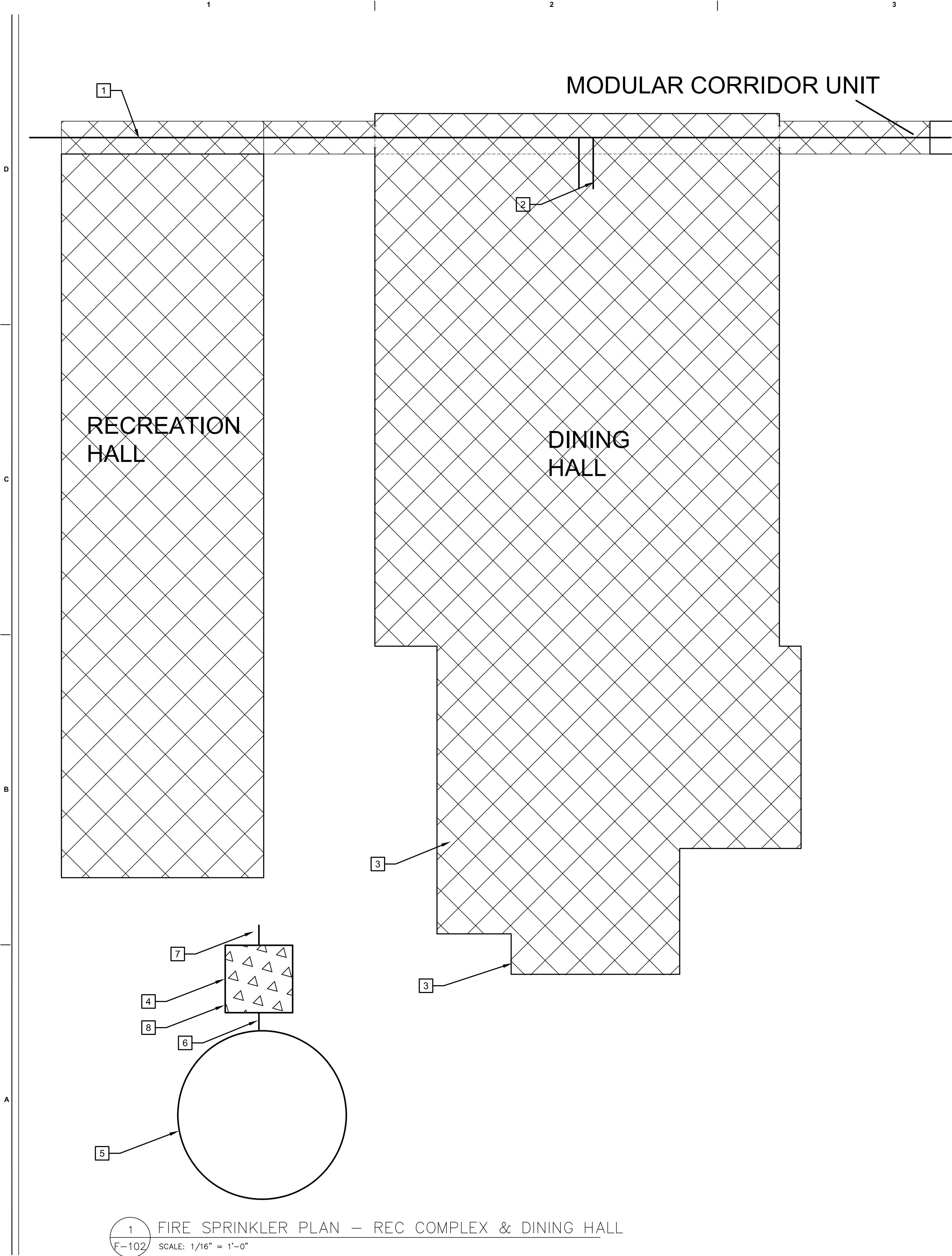
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D: FOR CONSTRUCTION	10/03/2019

REVISIONS:

SHEET CONTENTS:
OVERALL FIRE SPRINKLER PLAN

SHEET NUMBER:
F-101

XXX



GENERAL NOTES

1. REFER TO SHEET F-001 FOR GENERAL NOTES AND SYMBOLS.
2. REFER TO SHEET F-401 FOR FIRE PUMP DETAILS AND ENLARGED PLANS.
3. FIELD VERIFY CONDITION AND CODE COMPLIANCE OF EXISTING FIRE SPRINKLER SYSTEM PIPING AND COMPONENTS.
4. PROVIDE AUXILIARY DRAIN/INSPECTOR'S TEST CONNECTION, PIPE DRAIN TO APPROVED EXTERIOR LOCATION.
5. FIRE PUMP HOUSE TEMPERATURE SHOULD BE KEPT AT A MINIMUM OF 40 DEGREES AMB.
6. CONTRACTOR TO FIELD VERIFY FIRE DEPARTMENT CONNECTION (FDC) THREADS MATCH LOCAL FIRE DEPARTMENT EQUIPMENT USED.
7. PROVIDE NEW TEST HEADERS IN ACCORDANCE WITH NFPA 20, TABLE 4.27 TO FIRE PUMP HOUSE SYSTEM.

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Fort Worth, TX 76102

Oct. 2, 2019

AMITY
LODGES

KEYNOTES

- 1 PROVIDE NEW 8" MAIN THROUGH MODULAR CORRIDOR UNIT. CONNECT NEW MAIN INTO NEW DEDICATED FIRE LOOP.
- 2 CONNECT EXISTING SPRINKLER RISER INTO NEW 8" FEED MAIN IN MODULAR CORRIDOR.
- 3 PROVIDE DRY BARREL SIDEWALL SPRINKLERS ON WET-PIPE SPRINKLER SYSTEM SERVING LOADING DOCK AND COOLER AREAS. ROUTE WET BRANCHLINES IN CONDITIONED SPACE.
- 4 INSTALL A-C FIRE PUMP SYSTEMS, TYPE 8100 DIESEL FIRE PUMP RATED FOR 1000 GPM AT 120 PSI TO FEED DEDICATED FIRE LOOP. OWNER TO PROVIDE FIRE PUMP. DESIGN AND INSTALL IN ACCORDANCE WITH NFPA 20.
- 5 PROVIDE A NEW DUAL PURPOSE FIRE PROTECTION/DOMESTIC WATER STORAGE TANK. SIZE TANK TO PROVIDE A MINIMUM OF 135,000 GALLONS OF FIRE PROTECTION WATER TO DEDICATED FIRE LOOP FEEDING PRIVATE HYDRANTS AND SPRINKLER SYSTEMS. DESIGN AND INSTALL IN ACCORDANCE WITH NFPA 22.
- 6 PROVIDE DOUBLE CHECK VALVE BACKFLOW PREVENTER ASSEMBLY ON TANK OUTLET UPSTREAM OF FIRE PUMP SUCTION INLET. PROVIDE INSULATION AND WEATHERPROOFING FOR BACKFLOW PREVENTER
- 7 CONNECT TO NEW DEDICATED FIRE LOOP.
- 9 PROVIDE NEW WET PIPE FIRE SPRINKLER SYSTEM IN FIRE PUMP HOUSE. INSTALL IN ACCORDANCE WITH NFPA 13.

CRIOLLO LODGE
1218 KIZZER LANE
JAL, NEW MEXICO 88252

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A: FOR REVIEW ONLY	10/3/19
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C: 95% PROGRESS SET	6/21/2019
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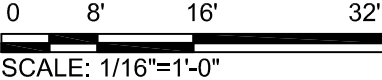
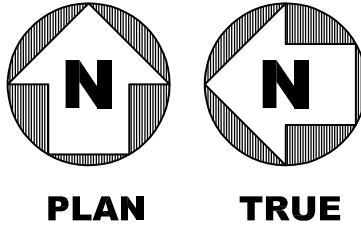
REVISIONS:

SHEET CONTENTS:
FIRE SPRINKLER PLAN - REC
COMPLEX & DINING HALL

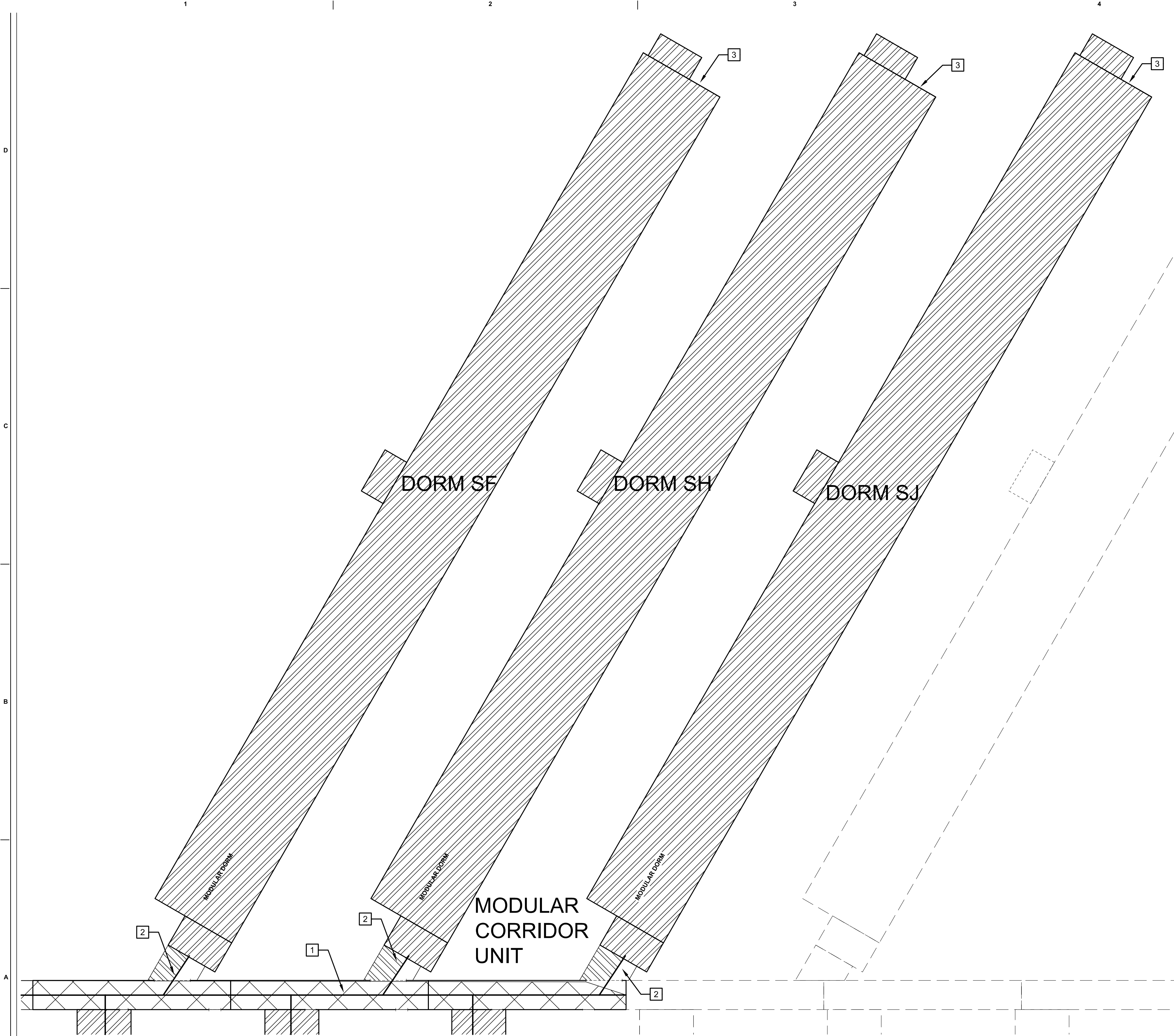
SHEET NUMBER:

F-102

FIRE SPRINKLER DESIGN CRITERIA					
PATTERN	OCCUPANCY	SYSTEM TYPE	DENSITY/ AREA	HOSE ALLOWANCE	MAXIMUM SPRINKLER COVERAGE
	LIGHT HAZARD	WET PIPE SPRINKLER SYSTEM	0.10 GPM/SF OVER MOST REMOTE 1,500 SF	250 GPM	225 SF
	RESIDENTIAL	WET PIPE SPRINKLER SYSTEM	.05 GPM/SF OVER 4 MOST DEMANDING SPRINKLERS	N/A	FOLLOW MANU'R'S REQ'S
	ORDINARY HAZARD GROUP 1	WET PIPE SPRINKLER SYSTEM	0.15 GPM/SF OVER MOST REMOTE 1,500 SF	250 GPM	130 SF



1 FIRE SPRINKLER PLAN – REC COMPLEX & DINING HALL
F-102 SCALE: 1/16" = 1'-0"



GENERAL NOTES

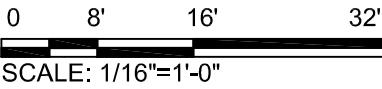
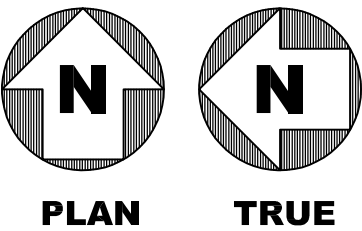
1. REFER TO SHEET F-001 FOR GENERAL NOTES AND SYMBOLS.
2. FIELD VERIFY CONDITION AND CODE COMPLIANCE OF EXISTING FIRE SPRINKLER SYSTEM PIPING AND COMPONENTS.
3. LOCATIONS OF EXISTING WET-PIPE FIRE SPRINKLER RISERS TO BE INCLUDED IN FUTURE SUBMISSION.
4. PROVIDE AUXILIARY DRAIN/INSPECTOR'S TEST CONNECTION. PIPE DRAIN TO APPROVED EXTERIOR LOCATION.
5. DASHED BUILDING LINES INDICATE PROPOSED LOCATIONS OF FUTURE DORMITORY BUILDINGS.

KEYNOTES

- 1 PROVIDE NEW 8" MAIN THROUGH MODULAR CORRIDOR UNIT.
- 2 CONNECT EXISTING SPRINKLER RISER INTO NEW 8" FEED MAIN IN MODULAR CORRIDOR.
- 3 LOCATION OF EXISTING FIRE DEPARTMENT CONNECTION. CONTRACTOR TO FIELD VERIFY FIRE DEPARTMENT CONNECTION THREADS TO MATCH LOCAL FIRE DEPARTMENT EQUIPMENT USED AND APPLICABLE CODES. PROVIDE SIGNAGE IN ACCORDANCE WITH LOCAL REQUIREMENTS.

FIRE SPRINKLER DESIGN CRITERIA

PATTERN	OCCUPANCY	SYSTEM TYPE	DENSITY/ AREA	HOSE ALLOWANCE	MAXIMUM SPRINKLER COVERAGE
	LIGHT HAZARD	WET PIPE SPRINKLER SYSTEM	0.10 GPM/SF OVER MOST REMOTE 1,500 SF	250 GPM	225 SF
	RESIDENTIAL	WET PIPE SPRINKLER SYSTEM	.05 GPM/SF OVER 4 MOST DEMANDING SPRINKLERS	N/A	FOLLOW MANU'R'S REQ'S
	ORDINARY HAZARD GROUP 1	WET PIPE SPRINKLER SYSTEM	0.15 GPM/SF OVER MOST REMOTE 1,500 SF	250 GPM	130 SF



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Oct. 2, 2019

AMITY
LODGES

CRIOLLO LODGE

1218 KIZZER LANE

JAL, NEW MEXICO 88252

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REVISIONS:

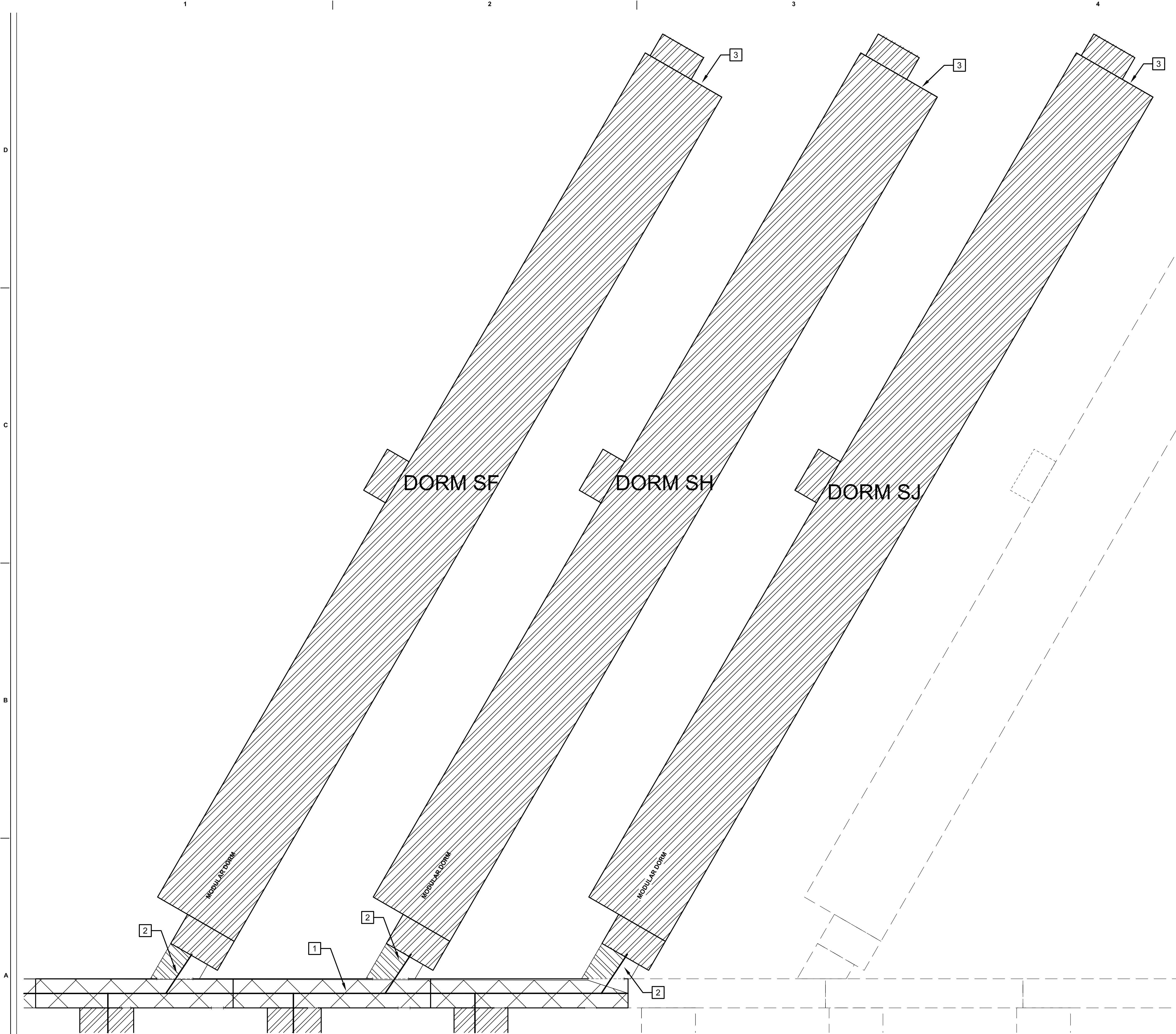
SHEET CONTENTS:

FIRE SPRINKLER PLAN -
FIRST FLOOR DORMITORIES
EAST

SHEET NUMBER:

F-103

XXX



GENERAL NOTES

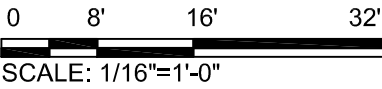
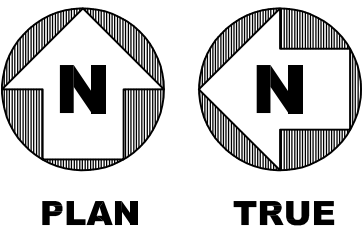
1. REFER TO SHEET F-001 FOR GENERAL NOTES AND SYMBOLS.
2. FIELD VERIFY THE LOCATION AND COMPARABILITY WITH LOCAL FIRE CONNECTIONS.
3. PROVIDE AUXILIARY DRAIN/INSPECTOR'S TEST CONNECTION. PIPE DRAIN TO APPROVED EXTERIOR LOCATION.
4. DASHED BUILDING LINES INDICATE PROPOSED LOCATION OF FUTURE DORMITORY BUILDINGS.

KEYNOTES

- 1 PROVIDE NEW 8" MAIN THROUGH MODULAR CORRIDOR UNIT.
- 2 CONNECT EXISTING SPRINKLER RISER INTO NEW 8" FEED MAIN IN MODULAR CORRIDOR.
- 3 EXISTING FIRE DEPARTMENT CONNECTION LOCATED ON GROUND LEVEL. CONTRACTOR TO FIELD VERIFY FIRE DEPARTMENT CONNECTION THREADS TO MATCH LOCAL FIRE DEPARTMENT EQUIPMENT USED AND APPLICABLE CODES. PROVIDE SIGNAGE IN ACCORDANCE WITH LOCAL REQUIREMENTS.

FIRE SPRINKLER DESIGN CRITERIA

PATTERN	OCCUPANCY	SYSTEM TYPE	DENSITY/ AREA	HOSE ALLOWANCE	MAXIMUM SPRINKLER COVERAGE
	LIGHT HAZARD	WET PIPE SPRINKLER SYSTEM	0.10 GPM/SF OVER MOST REMOTE 1,500 SF	250 GPM	225 SF
	RESIDENTIAL	WET PIPE SPRINKLER SYSTEM	.05 GPM/SF OVER 4 MOST DEMANDING SPRINKLERS	N/A	FOLLOW MANU'R'S REQ'S
	ORDINARY HAZARD GROUP 1	WET PIPE SPRINKLER SYSTEM	0.15 GPM/SF OVER MOST REMOTE 1,500 SF	250 GPM	130 SF



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WILLIAM ALLAN CUNY

24233

PROFESSIONAL ENGINEER

Oct. 2, 2019

AMITY

LODGES

CRIOLLO LODGE

1218 KIZZER LANE

JAL, NEW MEXICO 88252

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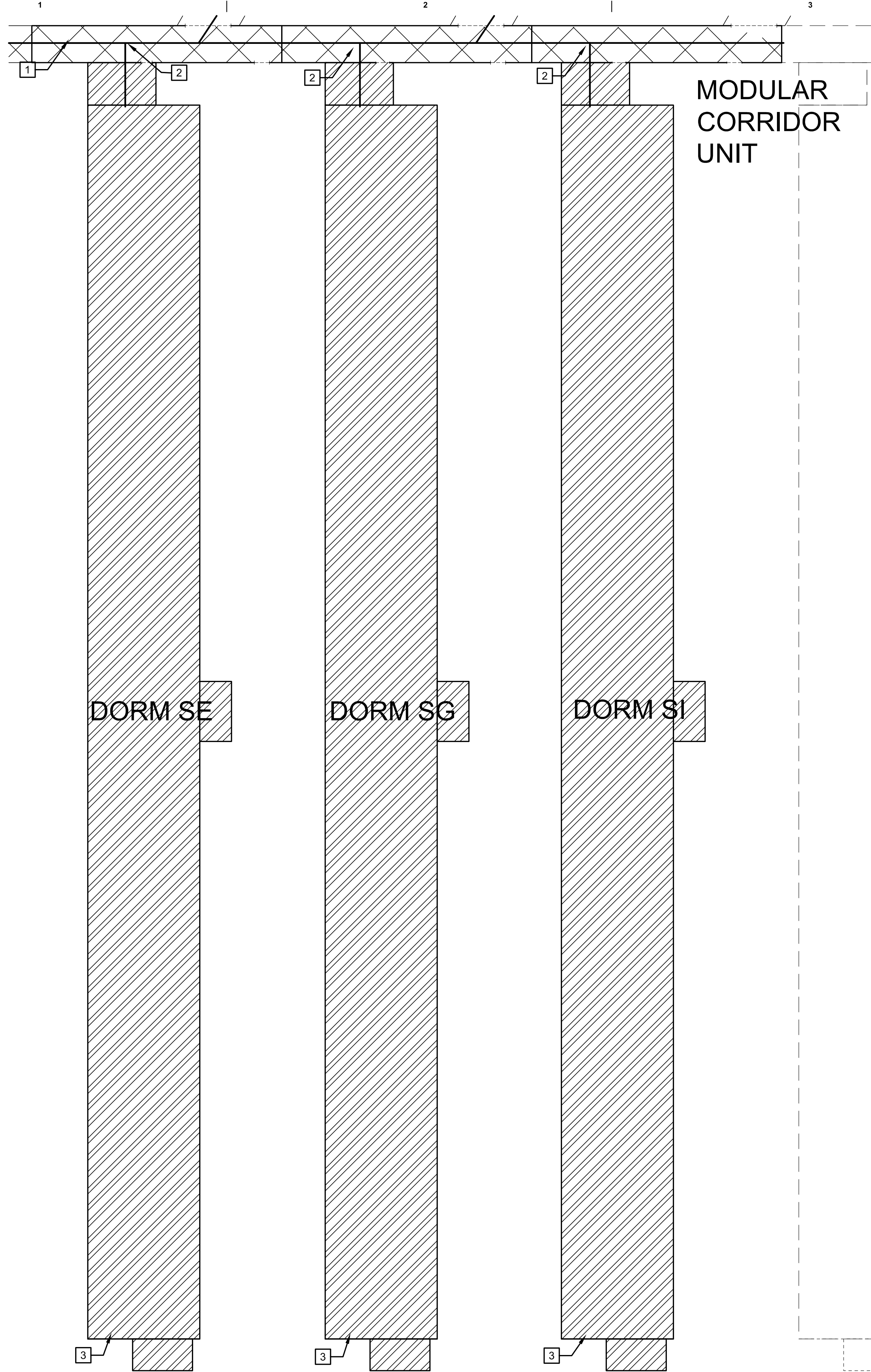
SHEET CONTENTS:

FIRE SPRINKLER PLAN -
SECOND FLOOR
DORMITORIES EAST

SHEET NUMBER:

F-104

XXX



1 FIRE SPRINKLER PLAN – FIRST FLOOR DORMITORIES WEST
F-105 SCALE: 1/16" = 1'-0"

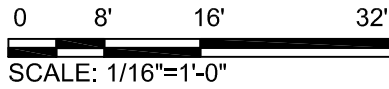
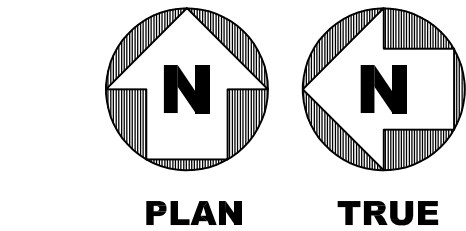
FIRE SPRINKLER DESIGN CRITERIA					
PATTERN	OCCUPANCY	SYSTEM TYPE	DENSITY/ AREA	HOSE ALLOWANCE	MAXIMUM SPRINKLER COVERAGE
	LIGHT HAZARD	WET PIPE SPRINKLER SYSTEM	0.10 GPM/SF OVER MOST REMOTE 1,500 SF	250 GPM	225 SF
	RESIDENTIAL	WET PIPE SPRINKLER SYSTEM	.05 GPM/SF OVER 4 MOST DEMANDING SPRINKLERS	N/A	FOLLOW MANU'R'S REQ'S
	ORDINARY HAZARD GROUP 1	WET PIPE SPRINKLER SYSTEM	0.15 GPM/SF OVER MOST REMOTE 1,500 SF	250 GPM	130 SF

GENERAL NOTES

- REFER TO SHEET F-001 FOR GENERAL NOTES AND SYMBOLS.
- FIELD VERIFY CONDITION AND CODE COMPLIANCE OF EXISTING FIRE SPRINKLER SYSTEM PIPING AND COMPONENTS.
- PROVIDE AUXILIARY DRAIN/INSPECTOR'S TEST CONNECTION. PIPE DRAIN TO APPROVED EXTERIOR LOCATION.
- DASHED LINES INDICATE PROPOSED LOCATION OF FUTURE DORMITORY BUILDINGS.

KEYNOTES

- 1 PROVIDE NEW 8" MAIN THROUGH MODULAR CORRIDOR UNIT.
- 2 CONNECT EXISTING 2" SPRINKLER RISER INTO NEW 8" FEED MAIN IN MODULAR CORRIDOR.
- 3 LOCATION OF EXISTING FIRE DEPARTMENT CONNECTION. CONTRACTOR TO FIELD VERIFY FIRE DEPARTMENT CONNECTION THREADS TO MATCH LOCAL FIRE DEPARTMENT EQUIPMENT USED AND APPLICABLE CODES. PROVIDE SIGNAGE IN ACCORDANCE WITH LOCAL REQUIREMENTS.



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JAL, NEW MEXICO 88252

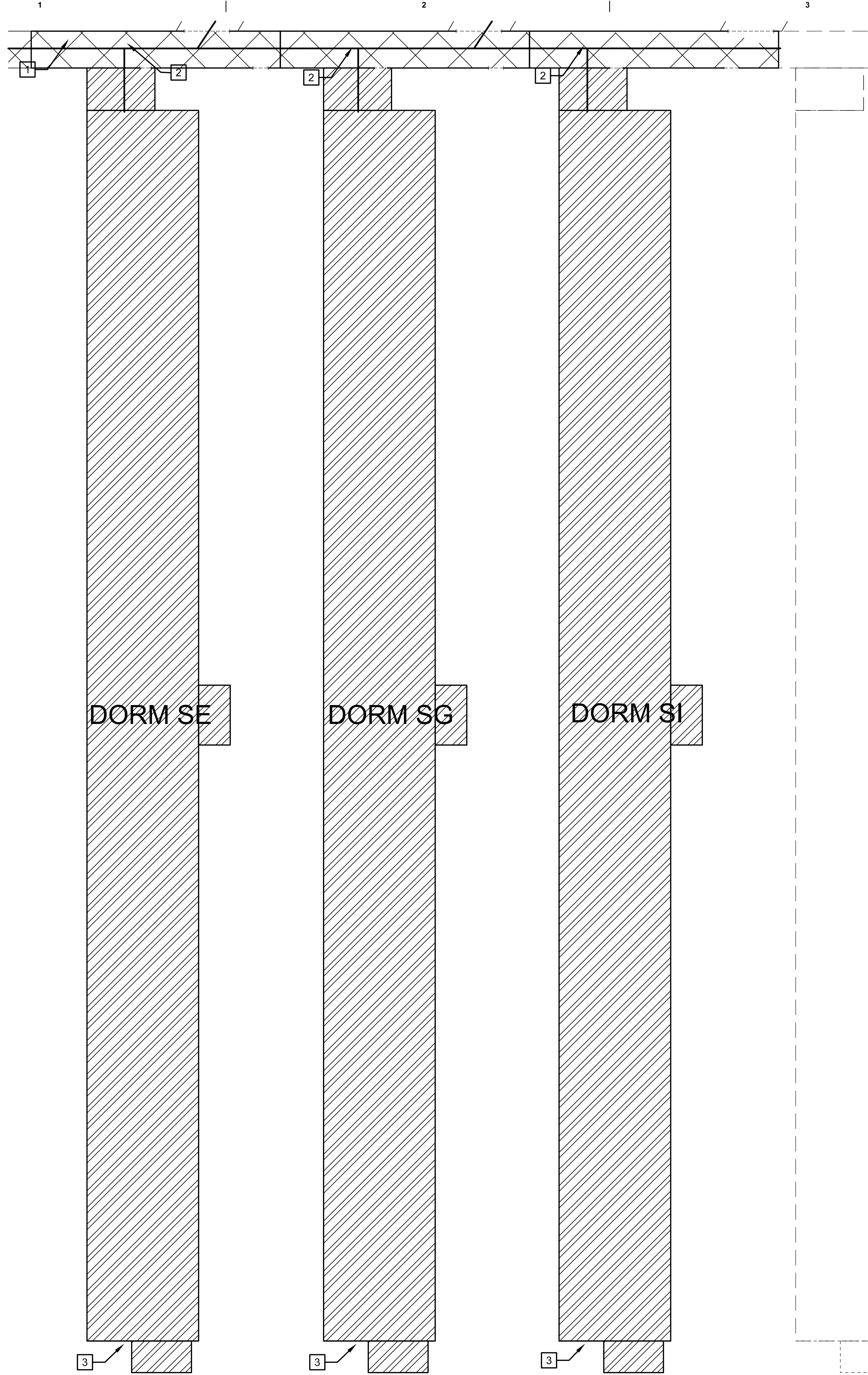
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SHEET CONTENTS:
FIRE SPRINKLER PLAN -
FIRST FLOOR DORMITORIES
WEST

SHEET NUMBER:

F-105



1 FIRE SPRINKLER PLAN – SECOND FLOOR DORMITORIES WEST
F-106 SCALE: 1/16" = 1'-0"

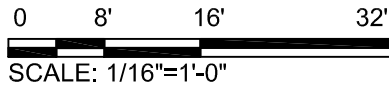
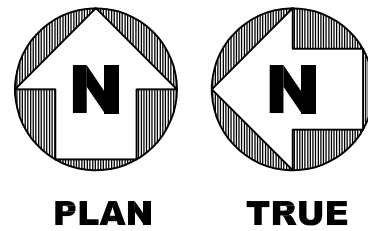
GENERAL NOTES

1. REFER TO SHEET F-001 FOR GENERAL NOTES AND SYMBOLS.
2. FIELD VERIFY CONDITION AND CODE COMPLIANCE OF EXISTING FIRE SPRINKLER SYSTEM PIPING AND COMPONENTS.
3. PROVIDE AUXILIARY DRAIN/INSPECTOR'S TEST CONNECTION. PIPE DRAIN TO APPROVED EXTERIOR LOCATION.
4. DASHED LINES INDICATED PROPOSED LOCATION OF FUTURE DORMITORY BUILDINGS.

KEYNOTES

- 1 PROVIDE NEW 8" MAIN THROUGH MODULAR CORRIDOR UNIT.
- 2 CONNECT EXISTING SPRINKLER RISER INTO NEW 8" FEED MAIN IN MODULAR CORRIDOR.
- 3 EXISTING FIRE DEPARTMENT CONNECTION LOCATED ON GROUND LEVEL. CONTRACTOR TO FIELD VERIFY FIRE DEPARTMENT CONNECTION THREADS TO MATCH LOCAL FIRE DEPARTMENT EQUIPMENT USED AND APPLICABLE CODES. PROVIDE SIGNAGE IN ACCORDANCE WITH LOCAL REQUIREMENTS.

FIRE SPRINKLER DESIGN CRITERIA					
PATTERN	OCCUPANCY	SYSTEM TYPE	DENSITY/ AREA	HOSE ALLOWANCE	MAXIMUM SPRINKLER COVERAGE
	LIGHT HAZARD	WET PIPE SPRINKLER SYSTEM	0.10 GPM/SF OVER MOST REMOTE 1,500 SF	250 GPM	225 SF
	RESIDENTIAL	WET PIPE SPRINKLER SYSTEM	.05 GPM/SF OVER 4 MOST DEMANDING SPRINKLERS	N/A	FOLLOW MANU'R'S REQ'S
	ORDINARY HAZARD GROUP 1	WET PIPE SPRINKLER SYSTEM	0.15 GPM/SF OVER MOST REMOTE 1,500 SF	250 GPM	130 SF



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JAL, NEW MEXICO 88252

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REVISIONS:

SHEET CONTENTS:
FIRE SPRINKLER PLAN -
SECOND FLOOR
DORMITORIES WEST

SHEET NUMBER:

F-106

XXX

GENERAL NOTES

1. REFER TO SHEET F-001 FOR GENERAL NOTES AND SYMBOLS.
2. DASHED LINES INDICATE PROPOSED LOCATIONS OF FUTURE DORMITORY BUILDINGS.
3. MAINTAIN LOCATIONS OF KITCHEN HOOD FIRE SUPPRESSION SYSTEMS IN DINING HALL. FIELD VERIFY CONDITION AND CODE COMPLIANCE.
4. MAINTAIN LOCATIONS AND CONNECTIONS OF EXISTING COMBINATION SMOKE/CO DETECTORS IN DORM UNITS. MAINTAIN LOCATIONS AND CONNECTIONS OF EXISTING CO DETECTION DEVICES IN KITCHEN AREAS. FIELD VERIFY CONDITION AND CODE COMPLIANCE.
5. MAINTAIN CONFIGURATION OF EXISTING FIRE ALARM CONTROL PANELS IN EACH BUILDING. FIELD VERIFY CONDITION AND CODE COMPLIANCE. ENSURE EXISTING PANELS ARE PROTECTED BY APPROVED SMOKE DETECTION DEVICE.
6. MAINTAIN MONITORING OF SPRINKLER SYSTEM TAMPER AND WATER FLOW SWITCHES. FIELD VERIFY CONDITION AND CODE COMPLIANCE.
7. MAINTAIN LOCATIONS AND CONNECTIONS OF EXISTING DUCT DETECTOR REMOTE TEST SWITCHES. FIELD VERIFY CONDITION AND CODE COMPLIANCE.
8. MAINTAIN LOCATIONS AND CONNECTIONS OF EXISTING REMOTE ANNUNCIATOR PANELS. FIELD VERIFY CONDITION.
9. MAINTAIN LOCATIONS AND CONNECTIONS OF EXISTING NOTIFICATION APPLIANCES. FIELD VERIFY CONDITION AND CODE COMPLIANCE.
10. VERIFY SMOKE DETECTORS ARE PROVIDED ABOVE ALL FIRE ALARM CONTROL PANELS, NOTIFICATION APPLIANCE CIRCUIT PANELS AND BOOSTER POWER SUPPLIES IN ACCORDANCE WITH NFPA 72 10.4.4.

KEYNOTES

1. PROVIDE 120VAC, 20 AMP DEDICATED CIRCUIT PROTECTED BY SURGE/LIGHTNING SUPPRESSORS WITHIN THE FIRE ALARM EQUIPMENT ENCLOSURE.
2. PROVIDE NEW FIRE ALARM CONTROL PANEL TO MONITOR FIRE PUMP AND TANK DEVICES. PUMPHOUSE FACP TO BE MONITORED BY MAIN FACP IN RECREATION HALL.
3. FIRE WATER TANK LOCATION
4. FACP LOCATION IS BASED ON EXISTING DRAWINGS. FACP LOCATION TO BE FIELD VERIFIED.
5. DORM PANEL LOCATIONS ARE BASED ON EXISTING DRAWINGS. DORM PANEL LOCATIONS TO BE FIELD VERIFIED



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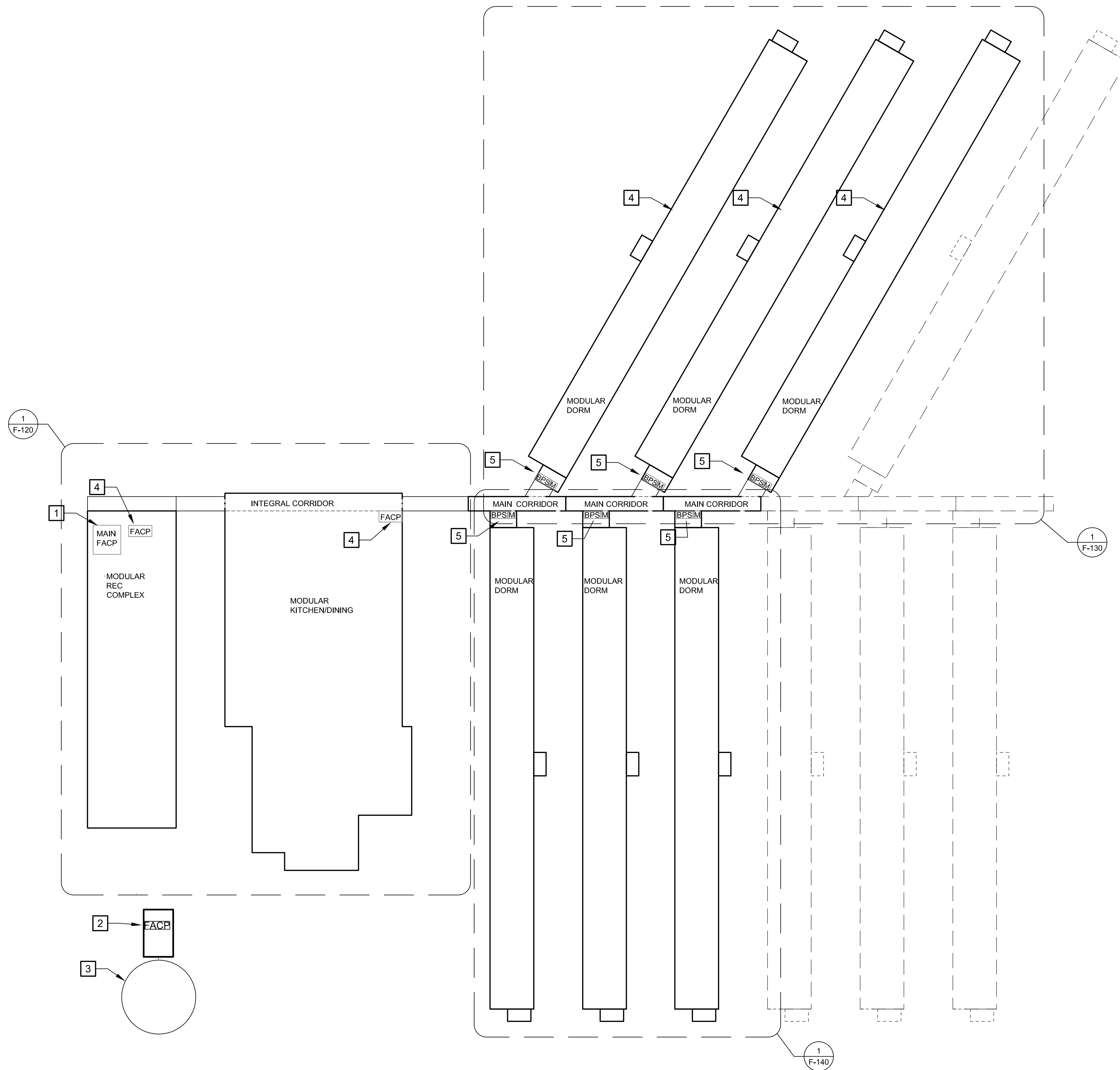
SHEET CONTENTS:

OVERALL FIRE ALARM PLAN

SHEET NUMBER:

F-110

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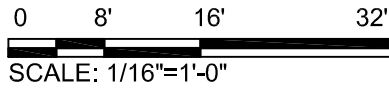
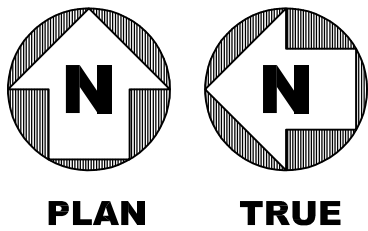
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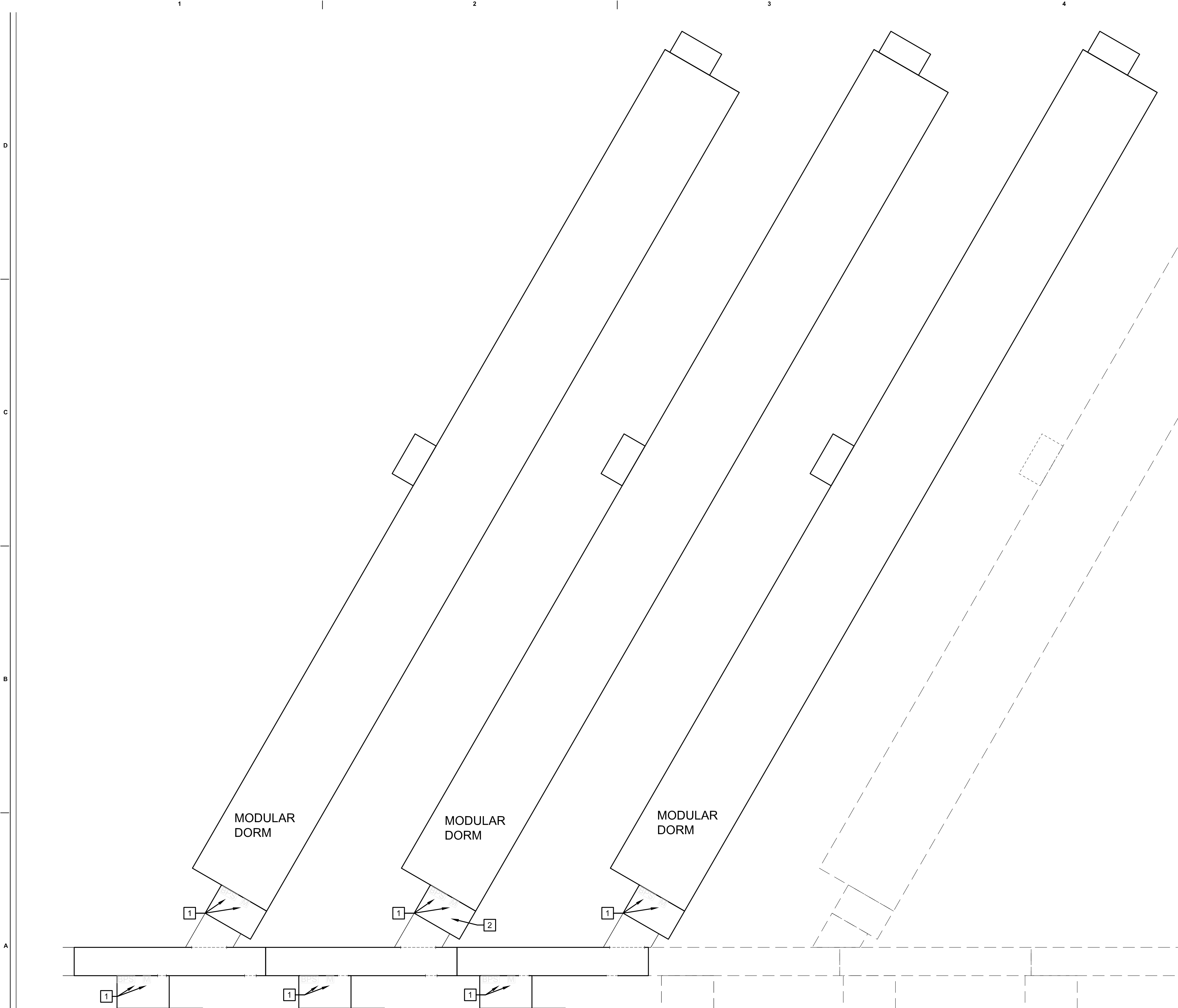
1 OVERALL FIRE ALARM PLAN
F-110 SCALE: 1" = 40'



1. REFER TO SHEET F-001 FOR GENERAL NOTES AND SYMBOLS.
2. DASHED LINES INDICATE PROPOSED LOCATIONS OF FUTURE DORMITORY BUILDINGS.
3. MAINTAIN LOCATIONS OF KITCHEN HOOD FIRE SUPPRESSION SYSTEMS IN DINING HALL. FIELD VERIFY CONDITION AND CODE COMPLIANCE.
4. MAINTAIN LOCATIONS AND CONNECTIONS OF EXISTING COMBINATION SMOKE/CO DETECTORS IN DORM UNITS. MAINTAIN LOCATIONS AND CONNECTIONS OF EXISTING CO DETECTION DEVICES IN KITCHEN AREAS. FIELD VERIFY CONDITION AND CODE COMPLIANCE.
5. MAINTAIN CONFIGURATION OF EXISTING FIRE ALARM CONTROL PANELS IN EACH BUILDING. FIELD VERIFY CONDITION AND CODE COMPLIANCE. ENSURE EXISTING PANELS ARE PROTECTED BY APPROVED SMOKE DETECTION DEVICE.
6. MAINTAIN MONITORING OF SPRINKLER SYSTEM TAMPER AND WATER FLOW SWITCHES. FIELD VERIFY CONDITION AND CODE COMPLIANCE.
7. MAINTAIN LOCATIONS AND CONNECTIONS OF EXISTING DUCT DETECTOR REMOTE TEST SWITCHES. FIELD VERIFY CONDITION AND CODE COMPLIANCE.
8. MAINTAIN LOCATIONS AND CONNECTIONS OF EXISTING REMOTE ANNUNCIATOR PANELS. FIELD VERIFY CONDITION.
9. MAINTAIN LOCATIONS AND CONNECTIONS OF EXISTING NOTIFICATION APPLIANCES. FIELD VERIFY CONDITION AND CODE COMPLIANCE.
10. VERIFY SMOKE DETECTORS ARE PROVIDED ABOVE ALL FIRE ALARM CONTROL PANELS, NOTIFICATION APPLIANCE CIRCUIT PANELS AND BOOSTER POWER SUPPLIES IN ACCORDANCE WITH NFPA 72 10.4.4.

- 1 LOCATION OF EXISTING MAIN FIRE ALARM FIRE CONTROL PANEL. THIS NOTIFIER AFP-200 PANEL MONITORS NOTIFIER CFP-2402B REC HALL FIRE ALARM CONTROL PANEL, MIRCOM BPS-1100 SIGNAL BOOSTER POWER SUPPLIES AND MONITOR MODULES SERVING EACH DORM AND NOTIFIER SFP-10UD KITCHEN FIRE ALARM CONTROL PANEL. DIALER CONFIGURATION TO BE INCLUDED IN A SUBSEQUENT SUBMITTAL.
- 2 LOCATION OF EXISTING DINING HALL FIRE ALARM CONTROL PANEL. FIRE ALARM CONTROL PANEL IS A NOTIFIER SFP-10UD.
- 3 LOCATION OF EXISTING REC HALL FIRE ALARM CONTROL PANEL. FIRE ALARM CONTROL PANEL IS A NOTIFIER CFP-2402B.
- 4 PROVIDE NEW FIRE ALARM CONTROL PANEL TO MONITOR TANK AND FIRE PUMP DEVICES. PUMPHOUSE FACP TO BE MONITORED BY MAIN FACP IN RECREATION HALL.
- 5 EXACT LOCATION AND DIMENSIONS OF TANK AND PUMPHOUSE TO BE DETERMINED. SHOWN FOR ILLUSTRATION PURPOSES ONLY



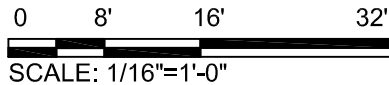
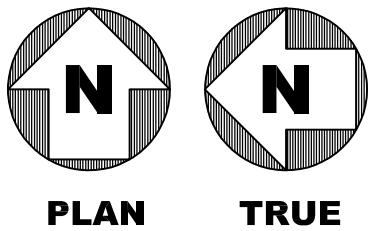


GENERAL NOTES

1. REFER TO SHEET F-001 FOR GENERAL NOTES AND SYMBOLS.
2. DASHED LINES INDICATE PROPOSED LOCATIONS OF FUTURE DORMITORY BUILDINGS.
3. MAINTAIN LOCATIONS OF KITCHEN HOOD FIRE SUPPRESSION SYSTEMS IN DINING HALL. FIELD VERIFY CONDITION AND CODE COMPLIANCE.
4. MAINTAIN LOCATIONS AND CONNECTIONS OF EXISTING COMBINATION SMOKE/CO DETECTORS IN DORM UNITS. MAINTAIN LOCATIONS AND CONNECTIONS OF EXISTING CO DETECTION DEVICES IN KITCHEN AREAS. FIELD VERIFY CONDITION AND CODE COMPLIANCE.
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6. MAINTAIN MONITORING OF SPRINKLER SYSTEM TAMPER AND WATER FLOW SWITCHES. FIELD VERIFY CONDITION AND CODE COMPLIANCE.
7. MAINTAIN LOCATIONS AND CONNECTIONS OF EXISTING DUCT DETECTOR REMOTE TEST SWITCHES. FIELD VERIFY CONDITION AND CODE COMPLIANCE.
8. MAINTAIN LOCATIONS AND CONNECTIONS OF EXISTING REMOTE ANNUNCIATOR PANELS. FIELD VERIFY CONDITION.
9. MAINTAIN LOCATIONS AND CONNECTIONS OF EXISTING NOTIFICATION APPLIANCES. FIELD VERIFY CONDITION AND CODE COMPLIANCE.
10. VERIFY SMOKE DETECTORS ARE PROVIDED ABOVE ALL FIRE ALARM CONTROL PANELS, NOTIFICATION APPLIANCE CIRCUIT PANELS AND BOOSTER POWER SUPPLIES IN ACCORDANCE WITH NFPA 72 10.4.4.

KEYNOTES

- 1** LOCATION OF MIRCOM BPS-110 SIGNAL BOOSTER POWER SUPPLY AND MONITOR MODULE SERVING DORM NOTIFICATION AND INITIATION DEVICES
- 2** DORM WATERFLOW AND TAMPERS APPROXIMATELY LOCATION. LOCATION TO BE FIELD VERIFIED.



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CRIOLLO LODGE

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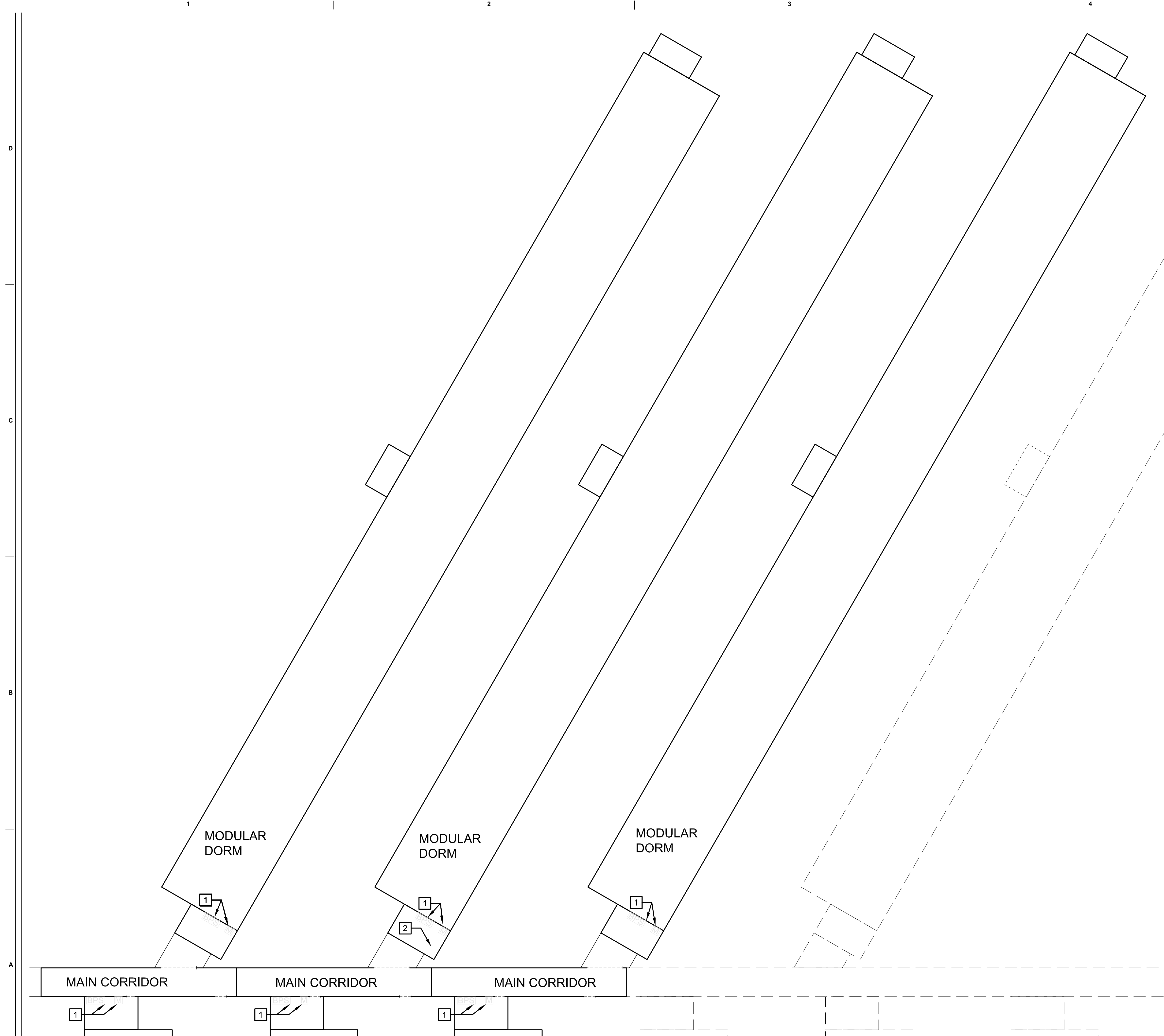
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SHEET CONTENTS:
FIRE ALARM PLAN - FIRST FLOOR DORMITORITES EAST

SHEET NUMBER:
F-130

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GENERAL NOTES

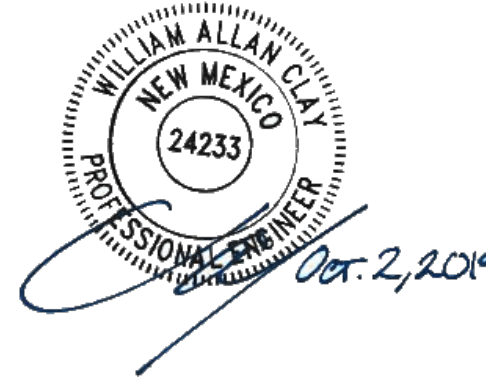
1. REFER TO SHEET F-001 FOR GENERAL NOTES AND SYMBOLS.
2. DASHED LINES INDICATE PROPOSED LOCATIONS OF FUTURE DORMITORY BUILDINGS.
3. MAINTAIN LOCATIONS OF KITCHEN HOOD FIRE SUPPRESSION SYSTEMS IN DINING HALL. FIELD VERIFY CONDITION AND CODE COMPLIANCE.
4. MAINTAIN LOCATIONS AND CONNECTIONS OF EXISTING COMBINATION SMOKE/CO DETECTORS IN DORM UNITS. MAINTAIN LOCATIONS AND CONNECTIONS OF EXISTING CO DETECTION DEVICES IN KITCHEN AREAS. FIELD VERIFY CONDITION AND CODE COMPLIANCE.
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10. VERIFY SMOKE DETECTORS ARE PROVIDED ABOVE ALL FIRE ALARM CONTROL PANELS, NOTIFICATION APPLIANCE CIRCUIT PANELS AND BOOSTER POWER SUPPLIES IN ACCORDANCE WITH NFPA 72 10.4.4.

KEYNOTES

- 1 LOCATION OF MIRCOM BPS-110 SIGNAL BOOSTER POWER SUPPLY AND MONITOR MODULE SERVING DORM NOTIFICATION AND INITIATION DEVICES
- 2 DORM WATERFLOW AND TAMPERS APPROXIMATELY LOCATION. LOCATION TO BE FIELD VERIFIED.



777 Main Street
Fort Worth, TX 76102



CRIOLLO LODGE
1218 KIZZER LANE
JAL, NEW MEXICO 88252

PROJECT NUMBER:

WFXP7601

DATE ISSUED:

10-3-19

ISSUES:

A: FOR REVIEW ONLY	10/3/19
B: INTERIM SUBMITTAL	5/01/2019
C: 95% PROGRESS SET	6/21/2019
D: FOR CONSTRUCTION	10/03/2019

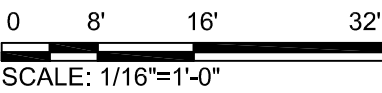
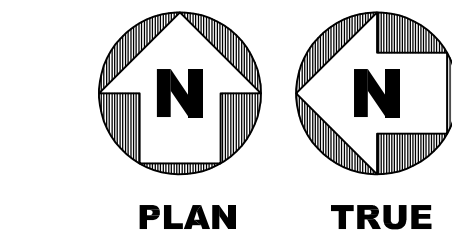
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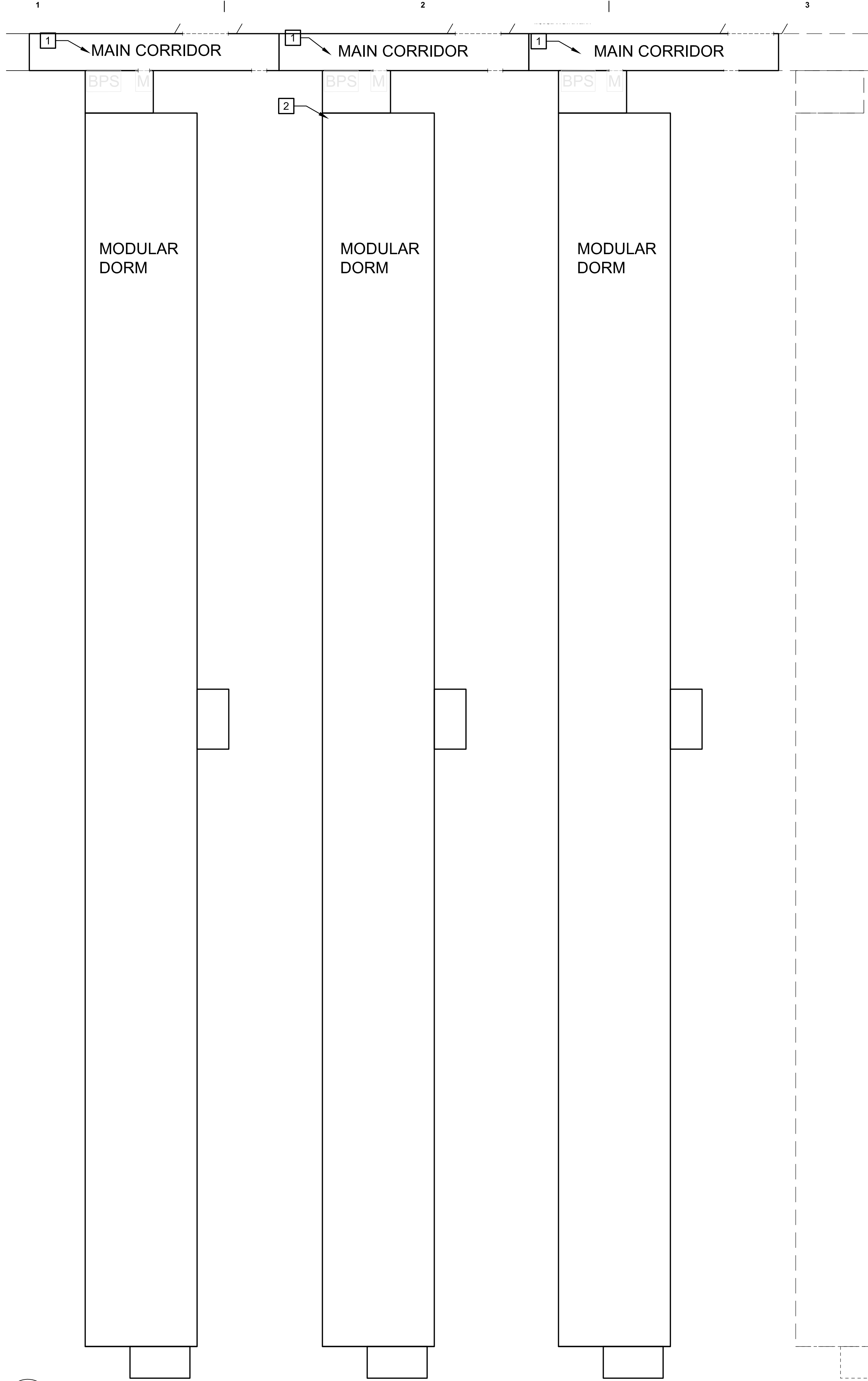
SHEET CONTENTS:

FIRE ALARM PLAN -SECOND
FLOOR DORMITORIES EAST

SHEET NUMBER:

F-140





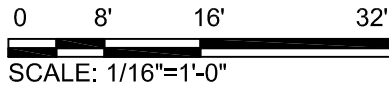
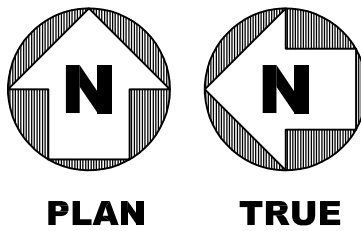
1 FIRE ALARM PLAN – SECOND FLOOR DORMITORIES WEST
F-160 SCALE: 1/16" = 1'-0"

GENERAL NOTES

- 1. REFER TO SHEET F-001 FOR GENERAL NOTES AND SYMBOLS.
- 2. DASHED LINES INDICATE PROPOSED LOCATIONS OF FUTURE DORMITORY BUILDINGS.
- 3. MAINTAIN LOCATIONS OF KITCHEN HOOD FIRE SUPPRESSION SYSTEMS IN DINING HALL. FIELD VERIFY CONDITION AND CODE COMPLIANCE.
- 4. MAINTAIN LOCATIONS AND CONNECTIONS OF EXISTING COMBINATION SMOKE/CO DETECTORS IN DORM UNITS. MAINTAIN LOCATIONS AND CONNECTIONS OF EXISTING CO DETECTION DEVICES IN KITCHEN AREAS. FIELD VERIFY CONDITION AND CODE COMPLIANCE.
- 5. MAINTAIN CONFIGURATION OF EXISTING FIRE ALARM CONTROL PANELS IN EACH BUILDING. FIELD VERIFY CONDITION AND CODE COMPLIANCE. ENSURE EXISTING PANELS ARE PROTECTED BY APPROVED SMOKE DETECTION DEVICE.
- 6. MAINTAIN MONITORING OF SPRINKLER SYSTEM TAMPER AND WATER FLOW SWITCHES. FIELD VERIFY CONDITION AND CODE COMPLIANCE.
- 7. MAINTAIN LOCATIONS AND CONNECTIONS OF EXISITNG DUCT DETECTOR REMOTE TEST SWITCHES. FIELD VERIFY CONDITION AND CODE COMPLIANCE.
- 8. MAINTAIN LOCATIONS AND CONNECTIONS OF EXISTING REMOTE ANNUNCIATOR PANELS. FIELD VERIFY CONDITION.
- 9. MAINTAIN LOCATIONS AND CONNECTIONS OF EXISTING NOTIFICATION APPLIANCES. FIELD VERIFY CONDITION AND CODE COMPLIANCE.
- 10. VERIFY SMOKE DETECTORS ARE PROVIDED ABOVE ALL FIRE ALARM CONTROL PANELS, NOTIFICATION APPLIANCE CIRCUIT PANELS AND BOOSTER POWER SUPPLIES IN ACCORDANCE WITH NFPA 72 10.4.4.

KEYNOTES

- 1 LOCATION OF MIRCOM BPS-110 SIGNAL BOOSTER POWER SUPPLY AND MONITOR MODULE SERVING DORM NOTIFICATION AND INITIATION DEVICES
- 2 DORM WATERFLOW AND TAMPERS APPROXIMATELY LOCATION. LOCATION TO BE FIELD VERIFIED.



Jacobs

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REVISIONS:

SHEET CONTENTS:
FIRE ALARM PLAN - SECOND FLOOR DORMITORIES WEST

SHEET NUMBER:
F-160

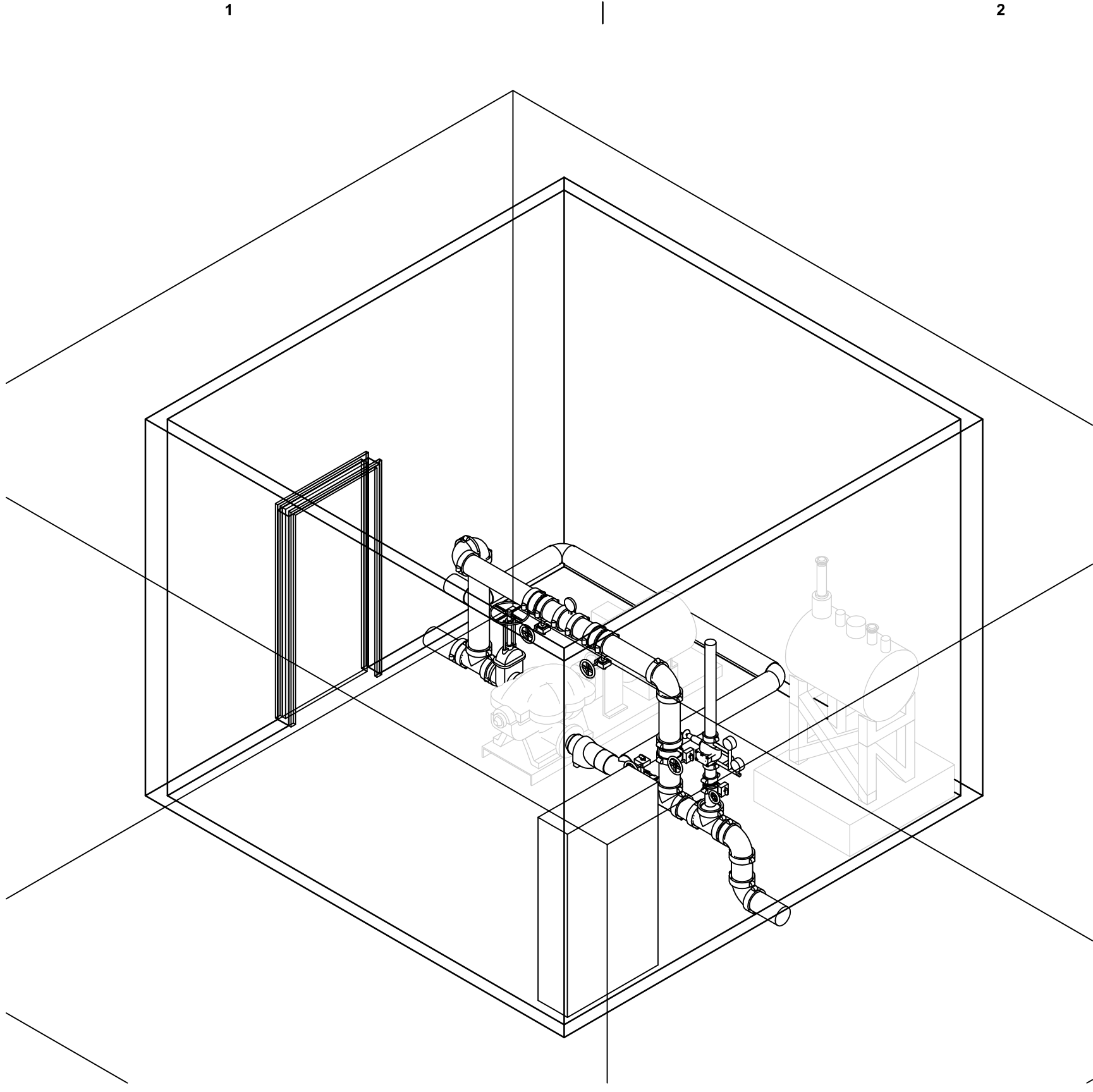
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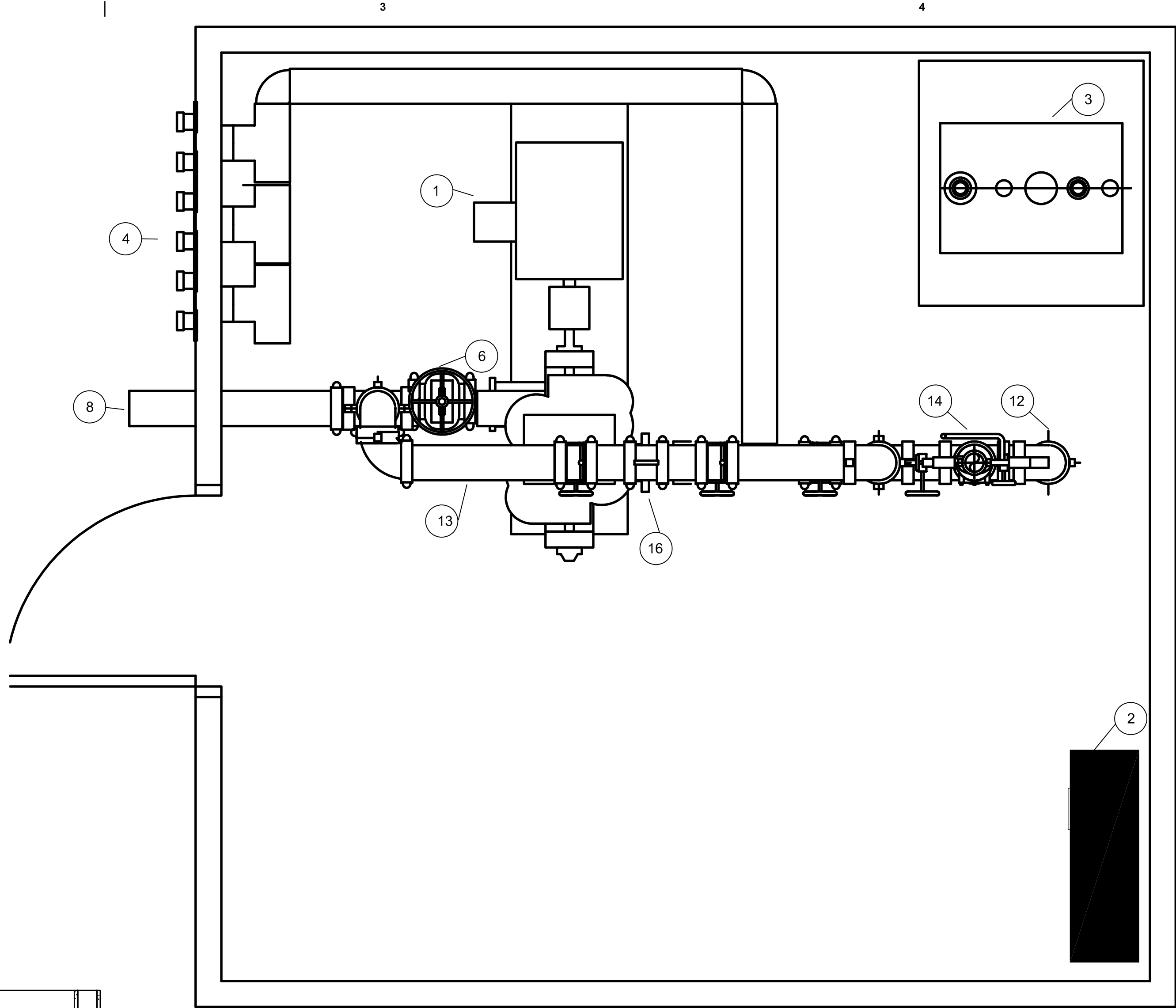
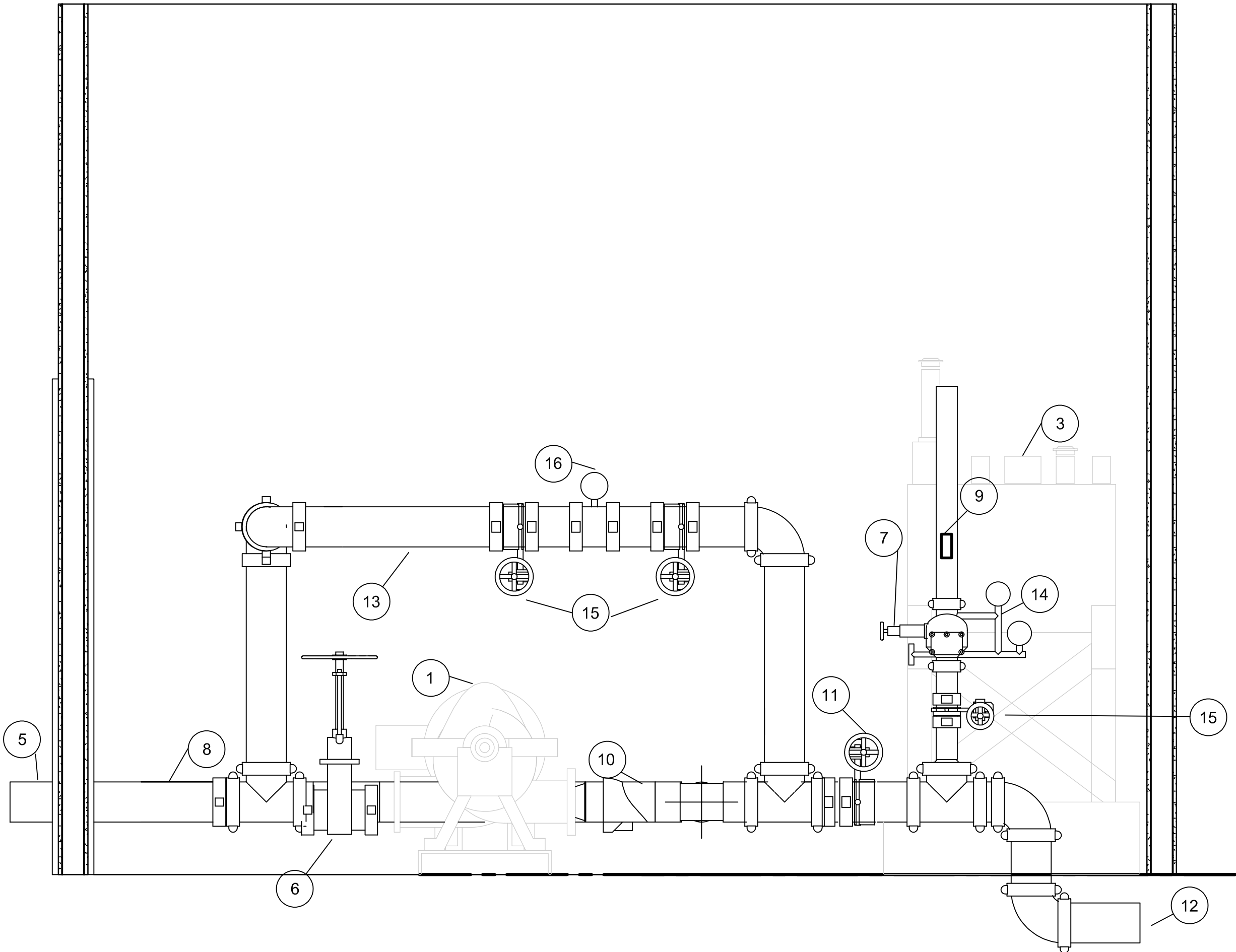
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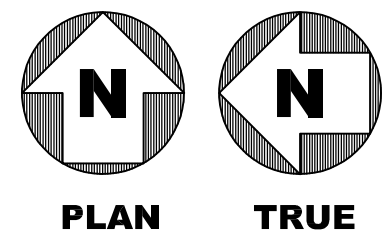


1 FIRE PUMP HOUSE DETAIL
NOT TO SCALE



2 FIRE PUMP HOUSE DESIGN
NOT TO SCALE

- 1 DIESEL FIRE PUMP
- 2 DIESEL FIRE PUMP CONTROLLER
- 3 DIESEL PUMP FUEL STORAGE TANK
- 4 PROVIDE 6 2 1/2 " HOSE VALVES ON TEST HEADER MANIFOLD
- 5 BACKFLOW PREVENTER LOCATED BETWEEN WATER STORAGE TANK AND FIRE PUMP HOUSE. PROVIDE INSULATION AND WEATHERPROOFING.
- 6 FIRE PUMP SUCTION VALVE
- 7 ROUTE DRAIN TO EXTERIOR.
- 8 FIRE PUMP SUCTION FROM TANK
- 9 WATER FLOW SWITCH
- 10 CHECK VALVE
- 11 FIRE PUMP DISCHARGE VALVE
- 12 DISCHARGE TO DEDICATED FIRE LOOP
- 13 PUMP (CHURN) TEST LINE
- 14 WET PIPE RISER CHECK VALVE FOR FIRE PUMPHOUSE SPRINKLER SYSTEM
- 15 BUTTERFLY VALVE
- 16 FLOW METER



0 8' 16' 32'
SCALE: 1/16"=1'-0"

GENERAL NOTES

1. REFER TO SHEET F-001 FOR GENERAL NOTES AND SYMBOLS.
2. FIELD VERIFY CONDITION AND CODE COMPLIANCE OF EXISTING FIRE SPRINKLER SYSTEM PIPING AND COMPONENTS.
3. PROVIDE AUXILIARY DRAIN/INSPECTOR'S TEST CONNECTION. PIPE DRAIN TO APPROVED EXTERIOR LOCATION.
4. FIRE PUMP HOUSE TEMPERATURE SHOULD BE KEPT AT A MINIMUM OF 40 DEGREES AMB.
5. CONTRACTOR TO FIELD VERIFY FIRE DEPARTMENT CONNECTION (FDC) THREADS MATCH LOCAL FIRE DEPARTMENT EQUIPMENT USED.
6. PROVIDE NEW TEST HEADER IN ACCORDANCE WITH NFPA 20, TABLE 4.27 TO FIRE PUMP HOUSE SYSTEM.
7. FIRE DEPARTMENT CONNECTION NOT REQUIRED ON PUMP HOUSE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13 SECTION 8.17.2.2.
8. PROVIDE ADDITIONAL SPACE IN FIRE PUMP HOUSE FOR DOMESTIC WATER EQUIPMENT TO BE HOUSED.

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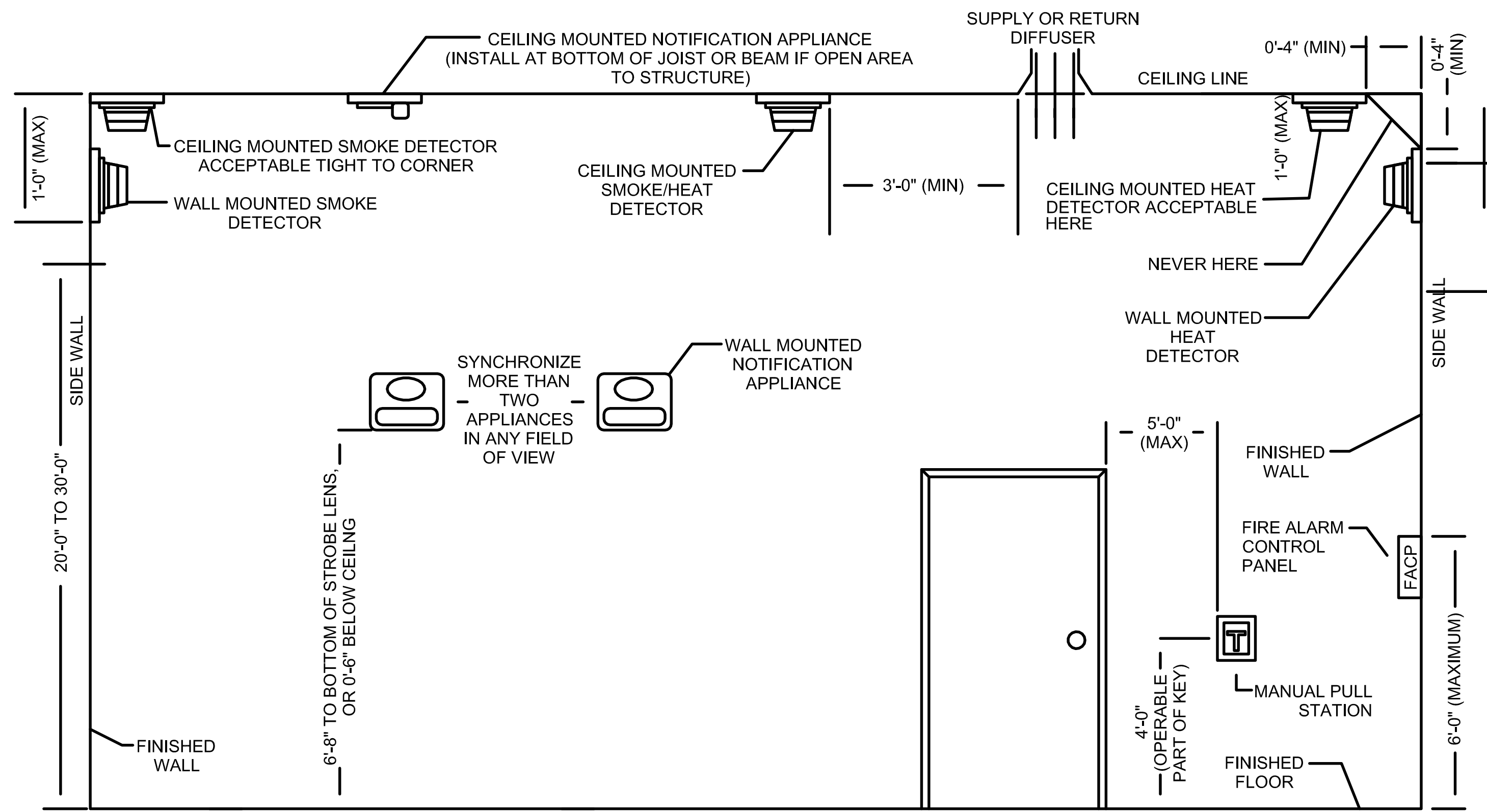
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SHEET CONTENTS:
ENLARGED FIRE PUMP
HOUSE DETAILS

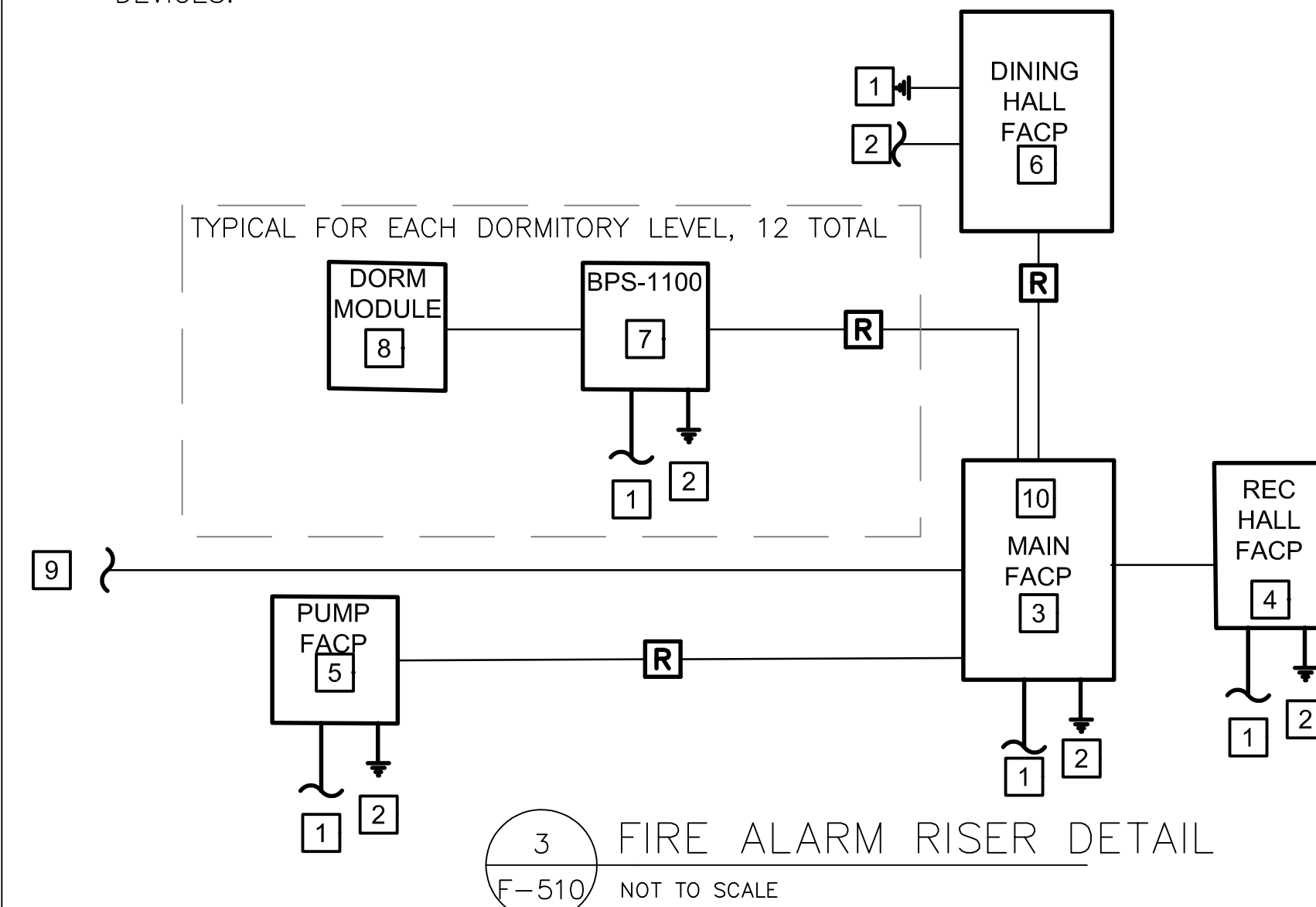
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FIRE ALARM RISER DIAGRAM KEYNOTES

- 1 PROVIDE 120 VAC, 20 AMP DEDICATED CIRCUIT PROTECTED BY SURGE/LIGHTNING SUPPRESSORS WITHIN THE FIRE ALARM EQUIPMENT ENCLOSURE.
- 2 PROVIDE GROUND PER NEC-NFPA 70.
- 3 EXISTING NOTIFIER AFP-200 CONVENTIONAL FIRE ALARM CONTROL PANEL THIS IS MAIN FIRE ALARM CONTROL SUPERVISING ALL OTHER PANELS ON COMPLEX.
- 4 EXISTING NOTIFIER CFP-2402B FIRE ALARM CONTROL PANEL SERVING REC HALL FIRE ALARM NOTIFICATION AND INITIATION DEVICES.
- 5 PROVIDE NEW FIRE ALARM CONTROL PANEL TO MONITOR PUMPHOUSE AND TANK EQUIPMENT: FIRE PUMP RUNNING, FIRE PUMP AC FAULT, PHASE REVERSAL, TANK LOW WATER LEVEL. MONITOR TAMPER SWITCHES ON ALL TANK/PUMP CONTROL VALVES.
- 6 EXISTING NOTIFIER SFP-10UD FIRE ALARM CONTROL PANEL SERVING DINING HALL FIRE ALARM NOTIFICATION AND INITIATION DEVICES. PANEL IS NOT SERVICEABLE AND WILL BE REPLACED WITH AN APPROVED EQUAL.
- 7 EXISTING MIRCOM BPS-1100 SIGNAL BOOSTER POWER SUPPLY SERVING DORM.
- 8 EXISTING MONITOR MODULE SERVING DORM FIRE ALARM NOTIFICATION AND INITIATION DEVICES.
- 9 DACT TO PROVIDE TRANSMISSION OF SIGNALS TO CENTRAL MONITORING STATION. CONTRACTOR TO VERIFY COMPATIBILITY WITH LOCAL FIRE DEPARTMENT REQUIREMENTS.
- 10 MAIN FACP WILL BE EQUIPPED WITH A RECEIVERS GATEWAY TO ENABLE COMPATIBILITY BETWEEN NOTIFIER DEVICES AND MIRCOM DEVICES. THE RECEIVERS GATEWAY ALLOWS MAIN FACP TO MONITOR DORM FIRE ALARM DEVICES.



2 FIRE ALARM DEVICE MOUNTING DETAIL
F-510 SCALE: 1/2" = 1'-0"

[illegible]

1 FIRE ALARM SYSTEM SEQUENCE OF OPERATIONS
F-510 NOT TO SCALE

GENERAL NOTES

1. REFER TO SHEET F-001 FOR GENERAL NOTES AND SYMBOLS.
2. RISER DIAGRAM IS A SCHEMATIC REPRESENTATION OF THE FIRE ALARM SYSTEM. SEE FIRE ALARM PLANS FOR LOCATIONS OF INITIATING DEVICES AND NOTIFICATION APPLIANCES.
3. MAINTAIN LOCATIONS OF KITCHEN HOOD SUPPRESSION SYSTEMS IN DINING HALL. FIELD VERIFY CONDITION AND CODE COMPLIANCE.
4. MAINTAIN LOCATIONS AND CONNECTIONS OF EXISTING COMBINATION SMOKE/ CARBON MONOXIDE DETECTORS IN DORM UNITS. MAINTAIN LOCATIONS AND CONNECTIONS OF EXISTING CARBON MONOXIDE DETECTION DEVICES IN KITCHEN AREAS. FIELD VERIFY CONDITION AND CODE COMPLIANCE.
5. MAINTAIN CONFIGURATION OF EXISTING FIRE ALARM CONTROL PANELS IN EACH BUILDING. FIELD VERIFY CONDITION AND CODE COMPLIANCE. ENSURE EXISTING PANELS ARE PROTECTED BY APPROVED SMOKE DETECTION DEVICE.
6. MAINTAIN MONITORING OF SPRINKLER SYSTEM TAMPER AND WATER FLOW SWITCHES. FIELD VERIFY CONDITION AND CODE COMPLIANCE.
7. MAINTAIN LOCATIONS AND CONNECTIONS OF EXISTING DETECTORS AND REMOTE TEST SWITCHES. FIELD VERIFY CONDITION AND CODE COMPLIANCE.
8. MAINTAIN LOCATIONS AND CONNECTIONS OF EXISTING REMOTE ANNUNCIATOR PANELS. FIELD VERIFY CONDITION.
10. MAINTAIN LOCATIONS AND CONNECTIONS OF EXISTING NOTIFICATION APPLIANCES THROUGHOUT THE COMPLEX. FIELD VERIFY CONDITION AND CODE COMPLIANCE



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SHEET CONTENTS:
FIRE ALARM DETAILS

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





















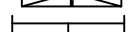
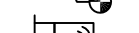
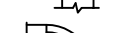
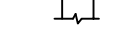
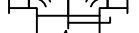
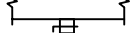
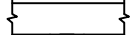
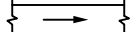

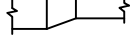



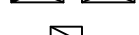



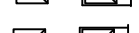
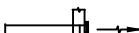
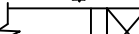
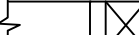


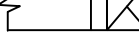
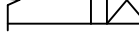
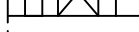
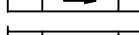
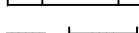



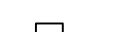
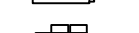
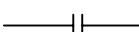
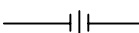
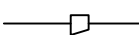
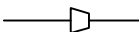
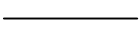
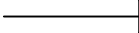
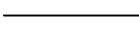
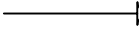
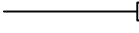


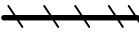











F-510

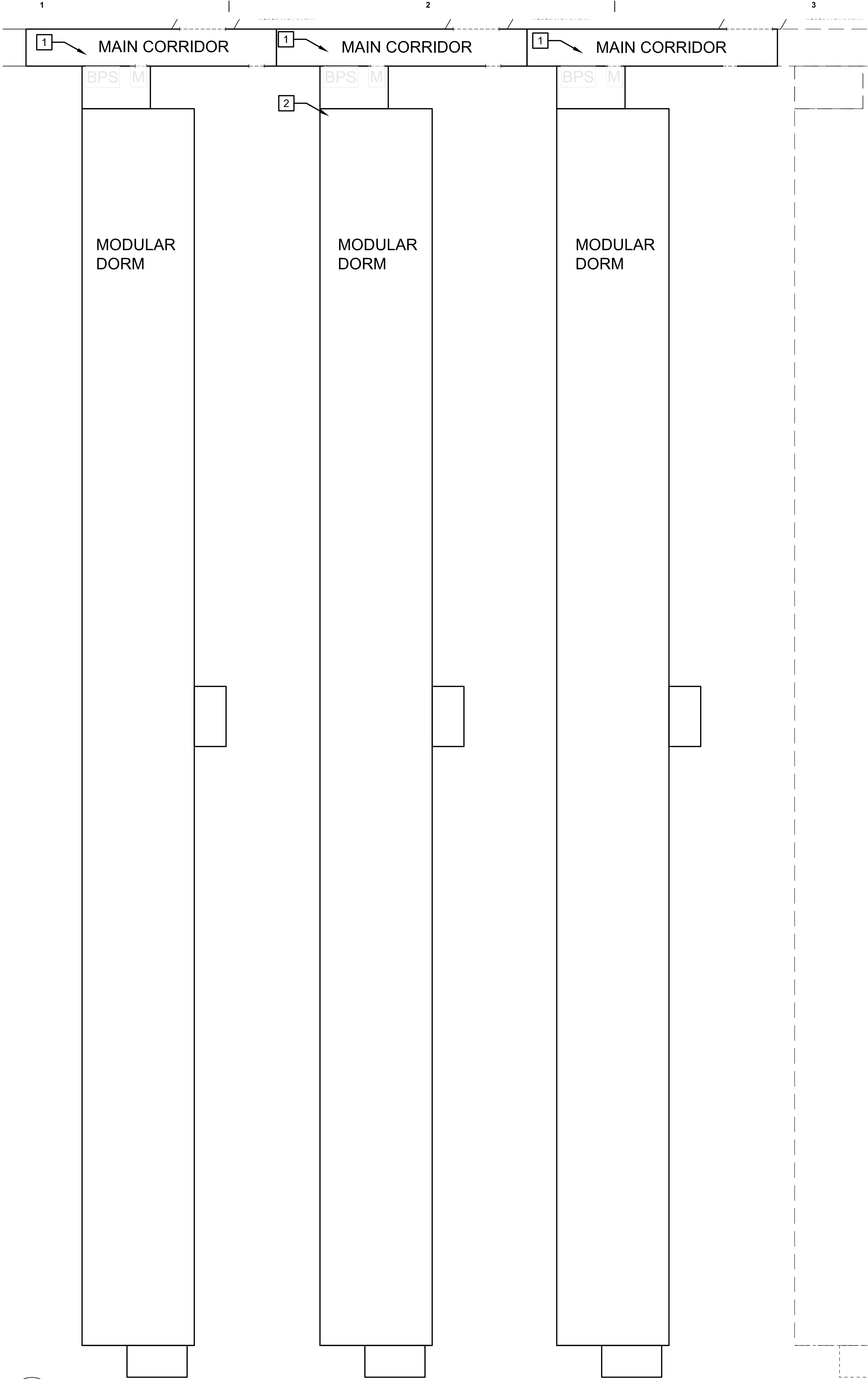
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B

A

VALVE SYMBOLS	DUCTWORK SYMBOLS	PIPING SYMBOLS	GENERAL NOTES
<div><div> GATE VALVE</div><div> BALL VALVE</div><div> GLOBE VALVE</div><div> PLUG VALVE</div><div> CHECK VALVE</div><div> STOP CHECK VALVE</div><div> NEEDLE VALVE</div><div> BUTTERFLY VALVE</div><div> ANGLE VALVE</div><div> 3 WAY VALVE</div><div> 4 WAY VALVE</div><div> RELIEF VALVE</div><div> DUMP VALVE</div><div> GAUGE GLASS VALVE</div><div> SELF CONTAINED PRESSURE CONTROL VALVE</div><div> AIR RELEASE VALVE</div><div> COMBINATION PRESSURE REDUCING/DESUPERHEATING VALVE</div><div> BACKFLOW PREVENTER</div><div> VACUUM BREAKER</div><div> NATURAL GAS PRESSURE REGULATOR</div></div>	<div><div> DUCT WITH ACOUSTICAL LINING</div><div> MANUAL VOLUME DAMPER</div><div> VERTICAL DAMPER IN DUCT (OR OPENING) AT FIRE-RATED PARTITION</div><div> HORIZONTAL FIRE DAMPER AT FLOOR PENETRATION</div><div> CONNECT NEW DUCT TO EXISTING</div><div> VANED ELBOW (PROVIDE VANES IN ALL SQUARE OR RECTANGULAR ELBOWS, UNLESS NOTED OTHERWISE)</div><div> VANED RADIUS ELBOW</div><div> TYPICAL SUPPLY AIR TEE WITH SPLITTER DAMPER</div><div> STANDARD ROUND BRANCH DUCT (SPIN-IN)</div><div> STANDARD ROUND BRANCH DUCT (CONICAL)</div><div> STANDARD RECTANGULAR BRANCH DUCT (45° TAKE-OFF)</div><div> STANDARD CONCENTRIC DUCT TRANSITION</div><div> RECTANGULAR-TO-ROUND DUCT TRANSITION</div><div> SECTION THROUGH ROUND DUCT, SUPPLY OR EXHAUST AS NOTED</div><div> SECTION THROUGH RECTANGULAR SUPPLY DUCT</div><div> SECTION THROUGH RECTANGULAR RETURN DUCT</div><div> SECTION THROUGH RECTANGULAR EXHAUST DUCT ACCESS DOOR IN CEILING</div><div> DUCT ACCESS DOOR</div><div> CEILING SUPPLY AIR DIFFUSER - ARROWS INDICATE PATTERN. NO PATTERN SHOWN EQUALS 4-WAY</div><div> CEILING RETURN AIR GRILLE OR RETURN REGISTER</div><div> CEILING EXHAUST AIR GRILLE OR EXHAUST REGISTER</div><div> SIDEWALL SUPPLY OR RETURN REGISTER OR GRILLE</div><div> SUPPLY OR OUTSIDE AIR DUCT UP</div><div> SUPPLY OR OUTSIDE AIR DUCT DOWN</div><div> RETURN AIR DUCT UP</div><div> RETURN AIR DUCT DOWN</div><div> RELIEF OR EXHAUST AIR DUCT UP</div><div> RELIEF OR EXHAUST AIR DUCT DOWN</div><div> IN-LINE 90 DEGREE DROP (RISE) IN DUCT</div><div> INCLINED RISE IN DUCT</div><div> INCLINED DROP IN DUCT</div><div> FLEXIBLE DUCT, SIZE AS SHOWN</div><div> DUCT PRESSURE CLASS, POINT OF CHANGE IN DUCT CONSTRUCTION</div><div> FLEXIBLE DUCT CONNECTION</div><div> VAV TERMINAL UNIT</div><div> FAN POWERED TERMINAL UNIT</div></div>	<div><div> BREAK FLANGES</div><div> UNION</div><div> CHANGE IN PIPE SIZE (ECCENTRIC)</div><div> CHANGE IN PIPE SIZE (CONCENTRIC)</div><div> SCREWED CAP</div><div> BUTTWELD CAP</div><div> CLEAN OUT</div><div> MALE CAM LOCK FITTING</div><div> HOSE CONNECTION</div><div> SPECTACLE BLIND</div><div> VENDOR NOZZLE/CONNECTION NUMBER</div><div> INDICATES UNDERGROUND PIPING</div></div> <div>CONTROLS SYMBOLS</div> <div><div> ROOM THERMOSTAT OR SENSOR</div><div> ROOM HUMIDISTAT</div><div> TEMPERATURE SENSOR/TRANSMITTER</div><div> HUMIDITY SENSOR/TRANSMITTER</div><div> DUCT SMOKE DETECTOR</div><div> FLOW SENSOR</div><div> FREEZE/STAT</div><div> FLOW SWITCH</div><div> RELAY</div><div> ELECTRIC MOTOR</div></div>	<div>A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS FOR CONSTRUCTION.</div> <div>B. COORDINATE LOCATION OF ALL PENETRATIONS WITH THE BUILDING STRUCTURE.</div> <div>C. WHERE APPROVAL CODES HAVE BEEN ESTABLISHED BY OSHA, UNDERWRITERS LABORATORY, AMERICAN CODES, ANSI, ASME, ASA, ASHRAE, ASTM, ARI, NEC, NFPA, SMACNA, OR THE STATE FIRE INSURANCE REGULATORY BODY, FOLLOW THESE STANDARDS WHETHER OR NOT INDICATED ON THE DRAWINGS OR SPECIFICATIONS.</div> <div>D. ARRANGE WITH AUTHORITIES HAVING JURISDICTION AND UTILITY COMPANIES FOR PERMITS, FEES, AND SERVICE CONNECTIONS. VERIFYING LOCATIONS AND ARRANGEMENTS AND PAYING ALL CHARGES, INCLUDING INSPECTIONS.</div> <div>E. COORDINATE WORK WITH ARCHITECTURAL FEATURES AND COORDINATE WORK SUCH THAT INTERFERENCES BETWEEN PIPING, DUCTWORK, EQUIPMENT, PLUMBING WORK, ELECTRICAL WORK, AND BUILDING STRUCTURE WILL BE AVOIDED.</div> <div>F. PROVIDE THE ENTIRE SYSTEM AND ITS COMPONENT ITEMS OF EQUIPMENT IN OPERATING CONDITION WITHOUT OBJECTIONABLE VIBRATION OR NOISE.</div> <div>G. PROVIDE ALL WIRING AND ELECTRICAL CONTROLS IN ACCORDANCE WITH NFPA 70 (NEC).</div> <div>H. VERIFY AND DOCUMENT EXISTING CONDITIONS AND DIMENSIONS ON THE JOB SITE PRIOR TO STARTING ANY WORK.</div> <div>I. DO NOT SCALE THESE DRAWINGS FOR CONSTRUCTION PURPOSES.</div> <div>J. ALL DUCTWORK SIZES ARE FREE AIR STREAM DIMENSIONS.</div> <div>K. INSTALL DUCTWORK AND PIPING TO PROVIDE THE MAXIMUM CLEAR HEIGHT UNDERNEATH. MAINTAIN 6" ABOVE CEILINGS TO ALLOW FOR LIGHT FIXTURES.</div> <div>L. REFER TO STRUCTURAL DRAWINGS FOR FRAMING REQUIRED AROUND PIPES AND DUCTS PENETRATING ROOFS, WALLS, AND FLOORS.</div> <div>M. ALL TAPS TO DIFFUSERS SHALL BE SAME SIZE AS DIFFUSER NECK OPENING UNLESS OTHERWISE NOTED.</div>
			EQUIPMENT TAG SYMBOLS
			<div>TERMINAL UNIT ON HVAC PLANS:</div> <div><div><div>EF-X</div><div>EBH-X</div></div><div><div>- EXHAUST FAN</div><div>- ELECTRIC BASEBOARD HEATER</div></div></div> <div><div>24x12</div><div>INDICATES A 24"x12" RECTANGULAR DUCT (NET FREE AREA)</div></div> <div><div>20"Ø</div><div>INDICATES A 20" ROUND DUCT (NET FREE AREA)</div></div> <div><div>46x30Ø</div><div>INDICATES A 46"x30" FLAT OVAL DUCT (NET FREE AREA)</div></div> <div>AIR DISTRIBUTION SYMBOL:</div> <div><div><div>XXX</div><div>CFM</div></div><div>XX</div><div><div>DEVICE</div><div>MAX FLOW (CFM)</div></div><div>NECK SIZE</div></div>
			MISCELLANEOUS
			<div><div><div>1</div><div>DRAWING NOTE REFERENCE</div></div><div><div> POINT OF CONNECTION - NEW TO EXISTING</div><div><div>CWR</div><div>— — — — —</div><div>DOMESTIC COLD WATER RETURN</div></div><div><div>CW</div><div>— — — — —</div><div>DOMESTIC COLD WATER</div></div><div><div>SS</div><div>— — — — —</div><div>SANITARY SEWER</div></div><div><div>V</div><div>— — — — —</div><div>VENT</div></div><div><div>GW</div><div>— — — — —</div><div>GREASE WASTE</div></div></div></div>



1
F-150

FIRE ALARM PLAN – FIRST FLOOR DORMITORIES WEST

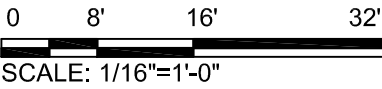
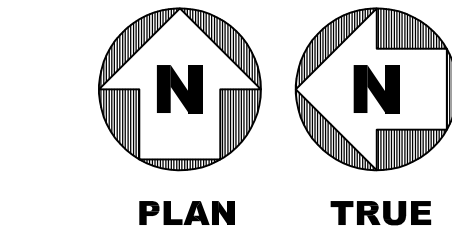
SCALE: 1/16" = 1'-0"

GENERAL NOTES

1. REFER TO SHEET F-001 FOR GENERAL NOTES AND SYMBOLS.
2. DASHED LINES INDICATE PROPOSED LOCATIONS OF FUTURE DORMITORY BUILDINGS.
3. MAINTAIN LOCATIONS OF KITCHEN HOOD FIRE SUPPRESSION SYSTEMS IN DINING HALL. FIELD VERIFY CONDITION AND CODE COMPLIANCE.
4. MAINTAIN LOCATIONS AND CONNECTIONS OF EXISTING COMBINATION SMOKE/CO DETECTORS IN DORM UNITS. MAINTAIN LOCATIONS AND CONNECTIONS OF EXISTING CO DETECTION DEVICES IN KITCHEN AREAS. FIELD VERIFY CONDITION AND CODE COMPLIANCE.
5. MAINTAIN CONFIGURATION OF EXISTING FIRE ALARM CONTROL PANELS IN EACH BUILDING. FIELD VERIFY CONDITION AND CODE COMPLIANCE. ENSURE EXISTING PANELS ARE PROTECTED BY APPROVED SMOKE DETECTION DEVICE.
6. MAINTAIN MONITORING OF SPRINKLER SYSTEM TAMPER AND WATER FLOW SWITCHES. FIELD VERIFY CONDITION AND CODE COMPLIANCE.
7. MAINTAIN LOCATIONS AND CONNECTIONS OF EXISITING DUCT DETECTOR REMOTE TEST SWITCHES. FIELD VERIFY CONDITION AND CODE COMPLIANCE.
8. MAINTAIN LOCATIONS AND CONNECTIONS OF EXISTING REMOTE ANNUNCIATOR PANELS. FIELD VERIFY CONDITION.
9. MAINTAIN LOCATIONS AND CONNECTIONS OF EXISTING NOTIFICATION APPLIANCES. FIELD VERIFY CONDITION AND CODE COMPLIANCE.
10. VERIFY SMOKE DETECTORS ARE PROVIDED ABOVE ALL FIRE ALARM CONTROL PANELS, NOTIFICATION APPLIANCE CIRCUIT PANELS AND BOOSTER POWER SUPPLIES IN ACCORDANCE WITH NFPA 72 10.4.4.

KEYNOTES

- 1 LOCATION OF MIRCOM BPS-110 SIGNAL BOOSTER POWER SUPPLY AND MONITOR MODULE SERVING DORM NOTIFICATION AND INITIATION DEVICES
- 2 DORM WATERFLOW AND TAMPERS APPROXIMATELY LOCATION. LOCATION TO BE FIELD VERIFIED.



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PROJECT NUMBER:
WFXP7601

DATE ISSUED:
10-3-19

ISSUES:

A: FOR REVIEW ONLY	10/3/19
B: INTERIM SUBMITTAL	5/01/2019
C: 95% PROGRESS SET	6/21/2019
D: FOR CONSTRUCTION	10/03/2019

REVISIONS:

SHEET CONTENTS:
FIRE ALARM PLAN - FIRST FLOOR DORMITORIES WEST

SHEET NUMBER:
F-150

XXX

D

GENERAL REQUIREMENTS

A. GENERAL

1. SPECIFICATIONS ARE APPLICABLE TO ALL CONTRACTORS AND/OR SUBCONTRACTORS FOR MECHANICAL SYSTEMS.

2. CHECK OTHER PLANS AND SPECIFICATIONS AND FULLY COORDINATE WITH OTHER TRADES, OWNER AND ARCHITECT REQUIREMENTS.

3. CONFORM TO ALL GENERAL AND SPECIAL CONDITIONS OF CONTRACT AS SPECIFIED BY ARCHITECT AND/OR OWNER.

4. VISIT SITE, CHECK FACILITIES AND CONDITIONS AND MAKE ALL NECESSARY OBSERVATIONS AND MEASUREMENTS. NOTE CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED AND TAKE ALL ITEMS INTO CONSIDERATION IN BID.

5. SYSTEMS ARE TO BE COMPLETE AND WORKABLE IN ALL RESPECTS, PLACED IN OPERATION AND PROPERLY ADJUSTED.

6. EACH CONTRACTOR SHALL PROVIDE HIS OWN CLEAN-UP, REMOVAL AND LEGAL DISPOSAL OF ALL RUBBISH DAILY.

7. CONTRACTOR SHALL PROTECT NEW WORK, EXISTING WORK AGAINST WEATHER.

8. CONTRACTOR SHALL PROTECT HIS WORK, MATERIALS, APPARATUS AND FIXTURES FROM DAMAGE. ANY WORK DAMAGED BY FAILURE TO PROVIDE PROTECTION REQUIRED, SHALL BE REMOVED AND REPLACED WITH NEW MATERIAL AT THE CONTRACTOR'S EXPENSE.

9. CONTRACTOR MUST CONFIRM ALL UTILITY COMPANY REQUIREMENTS AND CONNECTION POINTS IN FIELD PRIOR TO STARTING WORK.

10. ARRANGE FOR AND OBTAIN OWNER'S AND INSURANCE REPRESENTATIVE'S PERMISSION FOR ANY SERVICE SHUTDOWNS.

11. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, SEQUENCES OF CONSTRUCTION AND THE SAFETY OF WORKERS.

12. NO PIPING, DUCTWORK, WIRING, ETC. SHALL BE INSTALLED OR ROUTED ABOVE ELECTRICAL PANELS AND EQUIPMENT.

13. THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR AND OBTAIN A WRITTEN APPROVAL IDENTIFYING THE ELECTRICAL CHARACTERISTICS OF ALL MECHANICAL EQUIPMENT PRIOR TO ORDERING OF EQUIPMENT. NO ADDITIONAL PAYMENT WILL BE MADE FOR LACK OF CONTRACTOR COORDINATION OF ELECTRICAL CHARACTERISTICS.

14. DURING CONSTRUCTION THE CONTRACTOR MAY UNCOVER AN EXISTING CONDITION THAT WILL HAVE TO BE MODIFIED. ANY SUCH WORK WHICH COMES UNDER THE JURISDICTION OF THIS CONTRACTOR SHALL BE DONE BY THIS CONTRACTOR WITHOUT EXTRA COST TO THE OWNER, AS THOUGH FULLY DETAILED ON PLANS AND/OR DESCRIBED IN THE SPECIFICATIONS.

B. CODES, STANDARDS

1. CONFORM TO ALL APPLICABLE CODES (LOCAL, STATE, NATIONAL CODES, NFPA, OSHA, ETC.), GOVERNMENT REGULATIONS, UTILITY COMPANY REQUIREMENTS, AND APPLICABLE STANDARDS.

2. OBTAIN PERMITS AND PAY ALL FEES ARRANGE FOR ALL REQUIRED INSPECTIONS AND APPROVALS.

C. RELATED WORK SPECIFIED ELSEWHERE

1. POURED-IN-PLACE CONCRETE.

D. ELECTRICAL POWER WIRING

D. DRAWINGS

3. THE SYSTEMS AS SHOWN ON MECHANICAL DRAWINGS ARE DIAGRAMMATIC. CONFIRM ALL DIMENSIONS BY FIELD MEASUREMENT. THE EXACT LOCATIONS FOR FIXTURES, EQUIPMENT AND PIPING WHICH IS NOT COVERED BY DRAWINGS, SHALL BE OBTAINED FROM THE ARCHITECT OR HIS REPRESENTATIVE IN THE FIELD AND THE WORK SHALL BE LAID OUT ACCORDINGLY.

5. DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT ONE ANOTHER. ANY MATERIALS OR LABOR CALLED FOR IN ONE BUT NOT THE OTHER SHALL BE FURNISHED AS IF BOTH WERE MENTIONED IN THE SPECIFICATIONS AND SHOWN ON THE DRAWINGS.

E. BASE EQUIPMENT, MATERIALS AND SUBSTITUTIONS.

1. ALL EQUIPMENT AND MATERIALS SHALL BE NEW, FREE OF DEFECTS AND UL LABELED.

2. BASE BID MANUFACTURERS ARE INCLUDED IN THE SPECIFICATIONS OR LISTED IN SCHEDULES ON THE DRAWINGS. ALL OTHER MANUFACTURERS ARE BE CONSIDERED A SUBSTITUTION.

3. THE NAME OR MAKE OF ANY ARTICLE, DEVICE, MATERIAL, FORM OF CONSTRUCTION, FIXTURE, ETC. STATED IN THIS SPECIFICATIONS, WHETHER OR NOT THE WORDS "OR APPROVED EQUAL" ARE USED, SHALL BE KNOWN AS A "STANDARD".

4. ALL PROPOSALS SHALL BE BASED ON "STANDARDS" SPECIFIED.

5. THE EQUIPMENT, MATERIALS AND ON THE DRAWINGS INDICATE THAT THE MANUFACTURERS EQUIPMENT MODEL NUMBERS THAT THIS DESIGN HAS BEEN BASED ON, THE USE OF OTHER MANUFACTURERS' EQUIPMENT THAT IS LISTED AS ACCEPTABLE ALTERNATES THAT ENTAILS GENERAL TRADES, STRUCTURAL, MECHANICAL, ELECTRICAL, ETC. REVISIONS IS THIS CONTRACTOR'S RESPONSIBILITY. ANY ADDITIONAL COST OF SUCH CHANGES SHALL BE PAID BY THE CONTRACTOR SUBMITTING THE ACCEPTABLE ALTERNATES WHICH NECESSITATES CHANGES IN INSTALLING SUCH SUBMITTED ALTERNATE EQUIPMENT, EVEN THOUGH SUCH COSTS MAY BE PART OF ANOTHER DIVISION OF WORK.

6. SUBSTITUTIONS ARE SUBJECT TO THE APPROVAL OF THE OWNER. IF A SUBSTITUTION IS SUBMITTED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO EVALUATE IT AND CERTIFY THAT THE SUBSTITUTION IS EQUIVALENT IN ALL RESPECTS TO THE BASE SPECIFICATIONS.

7. IF SUBSTITUTIONS ARE APPROVED, NOTIFY ALL OTHER CONTRACTORS, SUBCONTRACTORS, ETC. AFFECTED BY THE SUBSTITUTION AND FULLY COORDINATE WITH THEM. ANY COSTS RESULTING FROM SUBSTITUTION, WHETHER BY THIS CONTRACTOR OR OTHERS, SHALL BE THE RESPONSIBILITY OF AND PAID FOR BY THE SUBSTITUTING CONTRACTOR. APPROVED SHOP DRAWINGS DO NOT ABSOLVE THIS CONTRACTOR FROM THIS RESPONSIBILITY.

8. ALL EQUIPMENT SHALL BE INSTALLED IN FULL ACCORDANCE WITH THE MANUFACTURER'S DATA AND INSTALLATION INSTRUCTIONS. IT IS THIS CONTRACTOR'S RESPONSIBILITY TO CHECK AND CONFIRM THESE REQUIREMENTS PRIOR TO STARTING WORK.

F. WARRANTY

1. FULLY WARRANT ALL MATERIALS, EQUIPMENT AND WORKMANSHIP FOR (1) YEAR FROM DATE OF ACCEPTANCE.

2. REPAIR OR REPLACE WITHOUT CHARGE TO THE OWNER ALL ITEMS FOUND DEFECTIVE DURING THE WARRANTY PERIOD, IN THE CASE OF REPLACEMENT OR REPAIR DUE TO FAILURE WITHIN THE WARRANTY PERIOD, THE WARRANTY ON THAT PORTION OF THE WORK SHALL BE EXTENDED FOR A MINIMUM PERIOD OF ONE (1) YEAR FROM THE DATE OF SUCH REPLACEMENT OR REPAIR.

G. SHOP DRAWING SUBMITTALS

1. SUBMIT SHOP DRAWINGS FOR MECHANICAL AND PLUMBING SYSTEMS, INCLUDING BUT NOT LIMITED TO SHEET METAL, PLUMBING FIXTURES AND EQUIPMENT WITH ADEQUATE DETAILS AND SCALES TO CLEARLY SHOW CONSTRUCTION. INDICATE THE OPERATING CHARACTERISTICS FOR EACH REQUIRED ITEM. CLEARLY IDENTIFY EACH ITEM ON THE SUBMITTAL AS TO MARK, LOCATION AND USE, USING SAME IDENTIFICATION AS PROVIDED ON THE CONSTRUCTION DOCUMENTS.

2. SHEET METAL DRAWINGS SHALL BE FULLY DIMENSIONED AND COORDINATED BASED ON FIELD VERIFIED BUILDING CLEARANCES AND ARCHITECTURAL, CEILING LAYOUTS. INDICATE STRUCTURAL, LIGHTING, DUCTWORK AND PIPING AT ALL CRITICAL LOCATIONS.

3. CONTRACTOR SHALL REVIEW AND INDICATE HIS APPROVAL OF EACH SHOP DRAWING PRIOR TO SUBMITTAL FOR REVIEW. SHOP DRAWINGS WILL NOT BE REVIEWED BY THE ENGINEER UNLESS THE CONTRACTOR'S APPROVAL IS NOTED. DO NOT START WORK OR FABRICATION UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED BY THE ENGINEER AND RETURNED TO THE CONTRACTOR.

4. SUBMITTALS WILL BE REVIEWED ONLY FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS AND NOT FOR DIMENSIONS OR QUANTITIES. THE SUBMITTAL REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR PURCHASE OF ANY ITEM IN FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS OR ITS COMPLETE AND PROPER INSTALLATION.

5. WHERE SUBMITTALS VARY FROM THE CONTRACT REQUIREMENTS, THE CONTRACTOR SHALL CLEARLY INDICATE ON SUBMITTAL OR ACCOMPANYING DOCUMENTS THE NATURE AND REASON FOR THE VARIATIONS.

6.

EACH MANUFACTURER OR HIS REPRESENTATIVE MUST CHECK THE APPLICATION OF HIS EQUIPMENT AND CERTIFY AT TIME OF SHOP DRAWING SUBMITTAL THAT THE EQUIPMENT SPECIFIED HAS BEEN PROPERLY APPLIED AND CAN BE INSTALLED, SERVICED AND MAINTAINED WHERE INDICATED ON THE DRAWINGS. ADVISE ENGINEER IN WRITING WITH SUBMITTAL DRAWINGS OF ANY POTENTIAL PROBLEMS. THE MANUFACTURER SHALL BE RESPONSIBLE FOR ANY CHANGES THAT MIGHT BE NECESSARY BECAUSE OF PHYSICAL CHARACTERISTICS OF EQUIPMENT THAT HAVE NOT BEEN CALLED TO THE ENGINEER'S ATTENTION AT THE TIME OF SUBMITTAL.

H. RECORD DRAWINGS

1. EACH CONTRACTOR OR SUBCONTRACTOR SHALL KEEP ONE (1) COMPLETE SET OF THE CONTRACT DRAWINGS ON THE JOB SITE ON WHICH HE SHALL REGULARLY RECORD ANY DEVIATIONS OR CHANGES FROM SUCH CONTRACT DRAWINGS MADE DURING CONSTRUCTION.

2. THESE DRAWINGS SHALL RECORD THE INSTALLED LOCATION OF ALL CONCEALED EQUIPMENT, PIPING, ELECTRIC SERVICE, SEWERS, WASTES, VENTS, DUCTS, CONDUIT, ETC. BY MEASURED DIMENSIONS TO EACH SUCH ITEM FROM COLUMN CENTERLINES OR READILY IDENTIFIABLE AND ACCESSIBLE WALLS OR CORNERS OF THE BUILDING. PLANS ALSO SHALL SHOW INVERT ELEVATION OF SEWERS AND TOP ELEVATION OF ALL OTHER BELOW-GRADE LINES.

3. RECORD DRAWINGS SHALL BE KEPT CLEAN AND UNDAUNED AND SHALL NOT BE USED FOR ANY PURPOSE OTHER THAN RECORDING DEVIATIONS FROM WORKING DRAWINGS AND EXACT LOCATIONS OF CONCEALED WORK.

4. AFTER THE PROJECT IS COMPLETED, THESE DRAWINGS SHALL BE DELIVERED TO THE ARCHITECT IN GOOD CONDITION, AS A PERMANENT RECORD OF THE INSTALLATION AS ACTUALLY CONSTRUCTED.

BASIC MATERIALS AND METHODS

A. GENERAL

1. PROVIDE ALL MATERIALS, LABOR, EQUIPMENT, AND ACCESSORIES REQUIRED TO FURNISH AND INSTALL THE MECHANICAL ITEMS IDENTIFIED IN THIS SECTION.

2. THIS SECTION INCLUDES BASIC MECHANICAL MATERIALS AND METHODS TO COMPLEMENT OTHER SECTIONS IN THIS SPECIFICATION AND REQUIREMENTS INDICATED ON THE MECHANICAL DRAWINGS.

B. EXCAVATION AND BACKFILL

1. PERFORM ALL EXCAVATION AND BACKFILL REQUIRED FOR INSTALLATION OF BELOW-GRADE PIPING.

2. EXCAVATE AS REQUIRED TO INSTALL PIPING AT REQUIRED DEPTH AND PITCH. PIPE TO BE LAID ON SAND BEDDING TO GIVE UNIFORM BEARING ALONG LENGTH OF PIPE.

3. BACKFILL WITH BEDDING MATERIAL TO A MINIMUM OF TWELVE (12) INCHES ABOVE TOP OF PIPE AND COMPACT. BALANCE OF BACKFILL IN OUTDOOR GRASS AREAS SHALL BE CLEAN EARTH UP TO SIX (6) INCHES ABOVE SURROUNDING GRADES. BACKFILL BELOW FINISHED FLOORS SHALL BE SAND, AND OUTDOORS UNDER PAVING SHALL BE INTERLOCKING ALTERNATE. ALL BACKFILL SHALL BE COMPACTED IN MAXIMUM NINE (9) INCH LAYERS.

4. ALL OTHER EXCAVATIONS SHALL BE BACKFILLED WITH CLEAN EARTH, EXCLUDING RUBBISH AND STONES NOT OVER 1-1/2" IN SIZE. BACKFILL SHALL BE THOROUGHLY TAMPED AND PUDDLED.

5. PATCH FLOOR TO MATCH EXISTING ADJACENT SURFACES.

C. PATCHES AND HANGERS

1. INSTALL HANGERS, SUPPORTS, CLAMPS AND ATTACHMENTS AS REQUIRED TO PROPERLY SUPPORT PIPING FROM BUILDING STRUCTURE. THE INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF MSS SP-69 AND SP-89.

D. ESCUTCHEONS

1. FIT ALL PIPE PASSING THROUGH WALLS, FLOORS OR CEILINGS IN FINISHED ROOMS AND ON LOW VOLTAGE RIGS AT NOT OVER 20 FOOT INTERVALS. TO RECEIVE A PAINT FINISH. MAKE ESCUTCHEONS PRIME PAINTED; OTHERWISE MAKE ESCUTCHEONS NICKEL OR CHROME PLATED. WHERE PIPING IS INSULATED, FIT ESCUTCHEONS OUTSIDE INSULATION. IDENTIFYING DEVICES AND LABELS

E. PROVIDE METAL EQUIPMENT NAMEPLATES PERMANENTLY FASTENED TO EQUIPMENT. PROVIDE IDENTIFICATION DATA ENGRAVED OR STAMPED.

2. IDENTIFY ALL PIPES AND VALVES IN EXPOSED AREAS, AND ACCESSIBLE CEILINGS AND SHAFTS.

3. COLOR CODE IDENTIFICATION BANDS OR MARKER BACKGROUNDS TO IDENTIFY CONTENTS OF PIPE AND DIRECTION OF FLOW LOCATED NEAR EACH VALVE AND FITTING, ON BOTH SIDES OF PIPE PASSING THROUGH WALLS AND ON LOW VOLTAGE RIGS AT NOT OVER 20 FOOT INTERVALS.

F. CUTTING, PATCHING AND DRILLING

1. ALL CUTTING AND PATCHING OF THE BUILDING CONSTRUCTION REQUIRED FOR THIS WORK SHALL BE BY THIS CONTRACTOR UNLESS SHOWN ON THE ARCHITECTURAL DRAWINGS AND CONFIRMED AS TO SIZE AND LOCATION PRIOR TO NEW CONSTRUCTION.

2. NEATLY SAW CUT ALL RECTANGULAR OPENINGS, SET SLEEVE THROUGH OPENING, AND FINISH PATCH OR PROVIDE TRIM FLANGE AROUND OPENING.

3. NEATLY SAW CUT FLOORS AND PATCH FLOOR TO MATCH EXISTING, INCLUDING FLOOR COVERING.

4. CONTRACTOR SHALL FIELD VERIFY SLAB-ON-GRADE OR SUPPORTED FLOOR CONSTRUCTION TYPE PRIOR TO CUTTING.

5. CORE DRILL AND SLEEVE ALL ROUND OPENINGS.

6. DO NOT CUT ANY STRUCTURAL COMPONENTS WITHOUT ARCHITECT'S WRITTEN APPROVAL, INCLUDING, BUT NOT LIMITED TO ROOF JOISTS, COLUMNS, FLOOR JOISTS, BEAMS, GIRDERS, STRUCTURAL FLOOR SLABS, ETC.

7. PATCH AND FINISH TO MATCH ADJACENT AREAS THAT HAVE BEEN CUT, DAMAGED OR MODIFIED AS A RESULT OF THE INSTALLATION OF THE MECHANICAL SYSTEMS.

8. ALL CONTRACTORS SHALL CONFIRM WITH OWNER, PRIOR TO BID, TIMES AVAILABLE FOR NOISE PRODUCING WORK SUCH AS CUTTING AND CORE DRILLING OF FLOORS, WALLS, ETC., AS WELL AS TIMES FOR WORK WHICH REQUIRES ACCESS INTO ADJOINING TENANT SPACES. INCLUDE ANY PREMIUM TIME IN BID.

INSULATION

A. GENERAL

1. FURNISH ALL MATERIAL, LABOR AND EQUIPMENT AS REQUIRED TO INSTALL COMPLETE PLUMBING AND HVAC INSULATION AS INDICATED ON MECHANICAL DRAWINGS AND IN THESE SPECIFICATIONS.

2. INSTALL IN FULL ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.

B. PLUMBING INSULATION (AS MANUFACTURED BY OWENS CORNING, KNAUF, SCHULLER OR CERTAINTED)

1. INSULATE ALL ABOVE GRADE COLD WATER PIPING WITH MOLDED FIBER GLASS HAVING AN ALL SERVICE JACKET.

C. INSULATION THICKNESS SCHEDULE: 1) LESS THAN 2" DIAMETER PIPE: 1/2" THICK; 2) 2" TO 4" DIAMETER PIPE: 1" THICK

1. INCLUDE INSULATION OF FITTINGS AND VALVES. KEEP VAPOR BARRIERS INTACT. CONFORM TO MANUFACTURER'S RECOMMENDATIONS.

D. HVAC INSULATION (AS MANUFACTURED BY OWENS CORNING, KNAUF, SCHULLER, OR CERTAINTED)

1. INSULATE ALL NON-LINED SUPPLY, AND EXHAUST DUCTS WITH 1-1/2" THICK FOIL FACED REINFORCED KRAFT JACKET, FIBERGLASS DUCT WRAP FULLY SECURED TO DUCT, LAP AND TAPE SEAMS AND SECURE TIGHTLY TO THE DUCTS WITH WIRE OR STICK PINS. ALL INSULATION TO BE APPLIED IN FULL ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND COMPLY WITH 25/50 FLAME AND SMOKE HAZARD RATINGS PER ASTM E-84, NFPA 255 AND UL 723.

PIPING AND VALVES

A. GENERAL

1. FURNISH ALL MATERIAL, LABOR, EQUIPMENT, AND ACCESSORIES AS REQUIRED TO INSTALL COMPLETE PLUMBING AND HVAC PIPING SYSTEMS AS INDICATED ON MECHANICAL DRAWINGS AND IN THESE SPECIFICATIONS.

2. INSTALL IN FULL ACCORDANCE WITH LOCAL CODE REQUIREMENTS, OTHER SPECIFICATION SECTION REQUIREMENTS AND MANUFACTURER'S RECOMMENDATIONS.

B. CONNECTIONS TO EQUIPMENT FURNISHED BY OTHERS

1. PROVIDE VALVED WATER AND/OR GAS CONNECTION FOR EQUIPMENT FURNISHED BY OTHER CONTRACTORS OR OWNER.

2. INCLUDE ACCESSORIES REQUIRED BY CODE, DRAWING OR MANUFACTURER'S INSTRUCTIONS.

C. SANITARY SEWER

1. INSTALL GREASE WASTE, SANITARY SEWER, STACKS, VENTS, DRAINS, CLEANOUTS, ETC., AS INDICATED ON THE DRAWINGS.

2. SEWERS TO BE PITCHED A MINIMUM OF 1/4" PER FOOT FOR 3" SIZES AND UNDER AND 1/8" PER FOOT FOR 4" SIZES AND LARGER OR TO GRADES INDICATED ON DRAWINGS. GREASE WASTE PITCH AT 1/2" PER FOOT.

3. CHANGES IN DIRECTION AND BRANCH CONNECTIONS SHALL BE MADE WITH APPROVED DRAINAGE FITTINGS COMPATIBLE WITH THE PIPING SYSTEM MATERIAL IN WHICH IT IS INSTALLED.

4. ALL FIXTURES AND SANITARY DRAINS SHALL BE VENTED AS INDICATED ON THE DRAWINGS.

5. VENTS ARE TO BE EXTENDED THROUGH ROOF AS INDICATED ON DRAINS AND FLASHED WITH 4 LB. LEAD WITH VENT FLASHING TOP TURNED DOWN TWO (2) INCHES MINIMUM INSIDE PIPE.

D. SANITARY/STORM SEWER AND VENT MATERIAL SHALL BE AS FOLLOWS:

1. BELOW-GRADE SANITARY INSIDE BUILDING

a. ABS-DWV PLASTIC ASTM D2661 WITH ASTM D2661 DWV SOLVENT WELD SOCKET FITTINGS.

2. ABOVE GRADE SANITARY/STORM SEWER AND VENT MATERIAL SHALL BE AS FOLLOWS:

a. ABS-DWV PLASTIC ASTM D2661 DWV SOLVENT WELD SOCKET FITTINGS. DOMESTIC WATER PIPING

F. INSTALL DOMESTIC WATER PIPING AS INDICATED ON DRAWINGS. INCLUDE ALL FITTINGS, VALVES, HANGERS AND OTHER ACCESSORIES INCLUDING WATER METER AND BACKFLOW PREVENTER. EXTEND DOMESTIC WATER PIPING TO ALL FIXTURES AND EQUIPMENT REQUIRED FOR COMPLETE INSTALLATION.

2. INCLUDE UNIONS, OR OTHER DISCONNECT MEANS, STOPS OR VALVES FOR ISOLATION OF FIXTURES AND EQUIPMENT. VALVES TO BE FULLY OPERABLE. EQUIPMENT FOR SERVICE INTENDED AS MANUFACTURED BY NIBCO, CRANE OR MILWAUKEE. INCLUDE HOSE OR DRAIN VALVES AT LOW POINTS WHERE FIXTURES CANNOT BE USED FOR DRAINAGE.

3. HANGERS ON INSULATED PIPE TO BE OUTSIDE OF INSULATION, SIZED ACCORDINGLY AND WITH A SUFFICIENT SADDLE TO PROTECT INSULATION.

G. DOMESTIC WATER PIPING SHALL BE AS FOLLOWS:

1. ABOVE GRADE 80 CPVC PIPING MANUFACTURED FROM CPVC COMPOUNDS PER ASTM D1784.

b. FITTINGS: SOCKET-TYPE, SOLVENT WELD JOINTS SHALL BE MADE USING CPVC CEMENT CONFORMING TO ASTM F493.

c. PIPE AND FITTINGS SHALL MEET OR EXCEED FLAME AND SMOKE REQUIREMENTS OF UL 723/ASTM E84.

2. RUSH, VENT AND SANITIZE ALL WATER PIPING WITH CHLORINE AS REQUIRED PER AWWA, LOCAL BUILDING DEPARTMENT AND HEALTH DEPARTMENT CODES.

H. GAS PIPING

1. INSTALL GAS PIPING.

2. INCLUDE METER AND REGULATOR ON DRAWINGS AND CONNECT TO ALL GAS USING EQUIPMENT.

3. ALL GAS PIPING CONNECTIONS AT EACH UNIT SHALL INCLUDE GAS COCK, UNION AND DIRT LEG.

4. ALL GAS PIPING SHALL CONFIRM TO RECOMMENDED PRACTICE AND REGULATIONS OF THE NFPA, LOCAL GAS CO. AND STATE CODE.

5. GAS PIPING SHALL BE AS FOLLOWS:

a. 2 PSIG OR LESS: NPS LESS THAN 2 1/2" SHALL BE SCHEDULE 40 STEEL PIPE, ELEVATED ABOVE GRADE WITH TWO (2) COATS OF PAINT.

b. EXTERIOR EXPOSED STEEL PIPE SHALL BE PAINTED WITH TWO (2) COATS OF RUST PROHIBITIVE PAINT.

PLUMBING EQUIPMENT

A. GENERAL

1. FURNISH ALL EQUIPMENT, MATERIALS, LABOR, TOOLS, ETC., FOR THE COMPLETE WATER TREATMENT AND DOMESTIC WATER BOOSTER PUMP SYSTEMS.

2. INSTALL IN FULL ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND PLACE IN SATISFACTORY OPERATION.

3. THE MANUFACTURER SHALL HAVE AN EXTENSIVE BACKGROUND AND EXPERIENCE IN THE DESIGN AND FABRICATION OF THE EQUIPMENT, AND SHALL HAVE FABRICATED THE EQUIPMENT FOR A MINIMUM OF 10 YEARS.

4. OPERATE AND MAINTAIN EQUIPMENT IN FIELD AND COORDINATE WITH THESE DRAWINGS AND OTHER TRADES BEFORE BEGINNING NEW WORK.

5. DETERMINE EXACT LOCATIONS FOR ALL EQUIPMENT, PIPING, CONDUITS AND DUCTWORK IN FIELD.

6. COORDINATE WORK OF THIS CONTRACT WITH OTHER TRADES, CONFLICTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

7. CORRECT DISCREPANCIES BETWEEN WHAT IS SHOWN ON DRAWINGS OR SPECIFIED AND THE ACTUAL CONDITIONS IN THE FIELD SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING. BUILDING AND SURFACES DAMAGED DURING INSTALLATION SHALL BE REPAIRED, REPLACED, AND/OR RESTORED TO ORIGINAL CONDITION AFTER COMPLETION OF WORK AND BEFORE ACCEPTANCE BY OWNER.

B. EQUIPMENT

1. PLUMBING CONTRACTOR TO FURNISH ALL WATER TREATMENT EQUIPMENT AND DOMESTIC WATER BOOSTER PUMP EQUIPMENT INDICATED AND/OR SCHEDULED ON THE DRAWINGS COMPLETE WITH BASES AND OTHER REQUIRED ACCESSORIES.

2. INSTALL COMPLETE SYSTEMS AND PLACE IN PROPER OPERATION PER MANUFACTURER'S RECOMMENDATIONS, AND ADJUST AS REQUIRED. TREATMENT PRIOR TO START UP.

3. EQUIPMENT TO BE MAKE AND MODEL AS SCHEDULED UNLESS ALTERNATE EQUIPMENT OF EQUIVALENT QUALITY AND PERFORMANCE IS SUBMITTED AS A SUBSTITUTION PRIOR TO BIDDING. ALL SUBSTITUTIONS ARE SUBJECT TO ACCEPTANCE WITHOUT QUALIFICATION BY OWNER, ENGINEER AND ARCHITECT

C. DOMESTIC WATER BOOSTER PUMP

1. CONTRACTOR SHALL FURNISH A COMPLETE TRIPLEX, VARIABLE SPEED PRESSURE BOOSTER SYSTEM INCLUDING OPERATIONAL CONTROLS IN A NEMA 12 ENCLOSURE(S).

2. SYSTEM SHALL BE A FACTORY PIPED AND PRE-WIRED ASSEMBLY MOUNTED ON A STEEL FRAME COMPLETE WITH PUMPS, 304SS PIPING, VARIABLE SPEED DRIVES, MOTORS AND CONTROLS. MANUFACTURER SHALL PROVIDE SINGLE SOURCE RESPONSIBILITY FOR COMPLETE PACKAGE. PACKAGE SHALL BE THIRD PARTY CERTIFIED BY UNDERWRITERS LABORATORIES, INC. BOOSTER SYSTEM AND COMPONENT PARTS SHALL COMPLY WITH ASHRAE 90.1, 2010 SECTION 10.4.2 AND ITS ADDENDUMS.

3. VARIABLE SPEED DRIVE SYSTEM SHALL PROVIDE SYSTEM PRESSURE BY VARYING THE SPEED AND NUMBER OF OPERATING PUMPS. THE VARIABLE SPEED DRIVES SHALL BE CAPABLE OF POWER TRANSMISSION THROUGHOUT THEIR COMPLETE SPEED RANGE WITHOUT VIBRATION, NOISE OR SHOCK LOADING. DRIVES SHALL BE INTEGRATED WITH THE PUMP MOTORS. DRIVES SHALL PROVIDE NEAR UNITY DISPLACEMENT POWER FACTOR WITHOUT THE NEED FOR EXTERNAL POWER FACTOR CORRECTION CAPACITORS AT ALL LOADS AND SPEEDS.

4. SYSTEM SHALL HAVE SUPPRESSORS TO PREVENT NOISE TRANSMISSION OVER ELECTRIC FEED LINES.

5.

PUMPS SHALL BE VERTICAL MULTISTAGE WITH CHARACTERISTICS WHICH PROVIDE RISING HEADS TO SHUT OFF. PUMP CASINGS AND IMPELLERS SHALL BE 304SS. SHAFT SHALL BE STAINLESS STEEL. COUPLINGS SHALL BE RIGID SPACER TYPE, DESIGNED TO ALLOW REMOVAL OF ALL MECHANICAL SEAL COMPONENTS FOR SERVICING WITHOUT REMOVAL OF PUMP. MECHANICAL SHAFT SEALS SHALL HAVE FPM SECONDARY SEAL, CARBON ROTATING FACE AND SILICON CARBIDE STATIONARY SEAT.

6. REQUIRED ELECTRICAL CONTROL CIRCUITRY AND SYSTEM FUNCTION SENSORS SHALL BE PROVIDED BY THE BOOSTER PUMP SYSTEM MANUFACTURER. SENSORS SHALL BE INSTALLED ON THE PACKAGE, AND APPROPRIATE CONTROL ALGORITHMS SHALL BE EMPLOYED TO SIMULATE OVERALL SYSTEM CHARACTERISTICS, BUT SHALL INCLUDE THE OPTION TO OPERATE FROM A REMOTE SENSOR. CONTROL SYSTEM SHALL BE CAPABLE OF OPERATING THE PUMPS AS INDICATED ON DRAWINGS, AND SHALL INCLUDE PUMP LEAD/LAG CONTROL.

7. INTEGRATED CONTROLS AND MOTOR PROTECTION SHALL INCLUDE:

a. MOTOR PHASE TO PHASE FAULT

b. MOTOR PHASE TO EARTH FAULT

c. LOSS OF SUPPLY PHASE

d. OVER/UNDER VOLTAGE

e. MOTOR OVER TEMPERATURE

f. INVERTER OVERLOAD/OVER CURRENT

8. CONTROL PANEL SHALL INCLUDE A TOUCHSCREEN HMI, AND SHALL DISPLAY THE FOLLOWING:

a. ENERGY CONSUMPTION DISPLAY, SHOWING INSTANTANEOUS KW, MONTHLY/YEARLY KW CONSUMPTION.

b. FLOW ESTIMATION AND PROFILING, SHOWING MAXIMUM DRAWN FLOW BASED ON HISTORICAL DATA, CURRENT FLOW AND CONSUMPTION VERSUS TIME.

c. ON-SCREEN FAULT DESCRIPTION AND POSSIBLE CAUSE INFORMATION ON ALARMS.

d. ALARM HISTORY

D. GREASE TRAP

1. CONSTRUCTION SHALL BE OF CLASS 1/2 CONCRETE WITH DESIGN STRENGTH OF 4500 PSI AT 28 DAYS.

2. MONOLITHIC CONSTRUCTION AT FLOOR, FIRST STAGE OF WALL AND BAFFLE WITH SECTIONAL RISER TO REQUIRED DEPTH (MONOLITHIC BAFFLE REQUIRED - SLIDE IN TYPE IS NOT ACCEPTABLE).

3. MANHOLE FRAMES, COVERS OR GRATES SHALL BE GREY CAST IRON CONFORMING TO ASTM A48 CLASS 30. MANHOLE SHALL BE NOMINAL 24 INCH DIAMETER AND RATED FOR TRAFFIC DUTY.

4. INTERIOR SHALL BE COMPLETELY FACTORY COATED WITH THE FOLLOWING: FLOOR FINISH SHALL BE POLYURETHANE STANDARD COAT TAR EPOXY OR HIGH DENSITY POLYETHYLENE COATING.

5. PROVIDE MANUFACTURER'S LOCALLY MOUNTED MAINTENANCE ALARM SYSTEM WITH VISUAL NOTIFICATION.

6. PROVIDE SAMPLE WELD DOWNSTREAM OF GREASE TRAP. SAMPLE WELL SHALL BE BY THE SAME MANUFACTURER AND OF SIMILAR CONSTRUCTION.

C. GREASE TREATMENT SYSTEM

1. THE WATER TREATMENT SYSTEM SHALL BE A PACKAGED SYSTEM, CONSISTING OF ON-BOARD BAG FILTRATION, BLADDER TANK, CHEMICAL INJECTION PUMPS, CHEMICAL MONITORING AND SYSTEM CONTROL PANEL. THE SYSTEM SHALL MONITOR DISINFECTION LEVELS OF THE RECIRCULATED WATER AND MAINTAIN A USER DEFINED RANGE VIA CHEMICAL INJECTION PUMPS THAT ARE CAPABLE OF INJECTING AT A RATE OF UP TO 2 GALLONS PER HOUR.

2. SYSTEM CONTROL PANEL SHALL BE FACTORY INSTALLED AND WIRED, AND SHALL HAVE A TOUCHSCREEN INTERFACE WHICH SHALL INCLUDE SYSTEM STATUS INDICATORS AND ALARMS IN A NEMA 12 ENCLOSURE. CONTROLS SHALL INCLUDE PROGRAMMABLE DIGITAL, ANALOG AND SCADA INPUTS/OUTPUTS FOR CONNECTION TO A CENTRAL CONTROL SYSTEM.

3. BAG FILTERS SHALL BE INSTALLED IN SERIES, WITH THE UPSTREAM FILTER RATED AT 25 MICRONS, AND THE FINAL FILTER RATED AT 5 MICRONS.

4. PRIMARY WATER TREATMENT SHALL BE A 12% SODIUM HYPOCHLORITE INJECTOR. ORP (OXYGEN REDUCTION POTENTIAL) SENSOR SHALL PERFORM FREQUENT SAMPLING OF TANK OXIDATION POTENTIAL TO ENSURE ADEQUATE WATER QUALITY LEVELS ARE MAINTAINED. ORP LEVELS SHALL BE DISPLAYED VIA HMI. WHEN ORP LEVELS DROP BELOW THE LOW LEVEL SETPOINT, THE CHEMICAL INJECTION SYSTEM SHALL BE ACTIVATED UNTIL THE ORP LEVELS REACH THE HIGH LEVEL SETPOINT.

5. CONTROLLER SHALL DISPLAY VIA HMI:

a. TANK WATER LEVEL

b. ORP LEVEL

c. PUMP DISCHARGE PRESSURE

d. PUMP RUN SPEED PERCENTAGE

e. CURRENT FLOW RATE

f. CHEMICAL FILL STATUS (FULL, LOW, EMPTY)

g. FILTER DIFFERENTIAL PRESSURE STATUS

6. CONTROLLER SHALL ALARM UNDER THE FOLLOWING CONDITIONS:

a. CHEMICAL FILL STATUS LOW OR EMPTY

b. FILTER DIFFERENTIAL PRESSURE EXCEEDS 9 PSID

c. SYSTEM LEAK DETECTION

HEAT GENERATION EQUIPMENT

A. GENERAL

1. FURNISH ALL MATERIAL, LABOR, EQUIPMENT AND ACCESSORIES AS REQUIRED TO INSTALL EQUIPMENT AS INDICATED ON MECHANICAL DRAWINGS.

2. INSTALL IN FULL ACCORDANCE WITH LOCAL CODE REQUIREMENTS, OTHER SPECIFICATION SECTION REQUIREMENTS, AND MANUFACTURER RECOMMENDATIONS.

HVAC SYSTEMS AND EQUIPMENT

A. GENERAL

1. FURNISH ALL EQUIPMENT, MATERIALS, LABOR, TOOLS, ETC., FOR THE COMPLETE HVAC SYSTEM.

2. INSTALL IN FULL ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND PLACE IN SATISFACTORY OPERATION.

3. VERIFY EXACT CONDITIONS IN FIELD AND COORDINATE WITH THESE DRAWINGS AND OTHER TRADES BEFORE BEGINNING NEW WORK.

4. DETERMINE EXACT LOCATIONS FOR ALL EQUIPMENT, PIPING, CONDUITS AND DUCTWORK IN FIELD.

5. COORDINATE WORK OF THIS CONTRACT WITH OTHER TRADES. CONFLICTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. ARCHITECT'S RESOLUTION TO CONFLICTS SHALL BE FINAL.

6. ANY DISCREPANCIES BETWEEN WHAT IS SHOWN ON DRAWINGS OR SPECIFIED AND THE ACTUAL CONDITIONS IN THE FIELD SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING. BUILDING AND SURFACES DAMAGED DURING INSTALLATION SHALL BE REPAIRED, REPLACED, AND/OR RESTORED TO ORIGINAL CONDITION AFTER COMPLETION OF WORK AND BEFORE ACCEPTANCE BY OWNER.

B. EQUIPMENT

1. MECHANICAL CONTRACTOR TO FURNISH ALL HVAC EQUIPMENT INDICATED AND/OR SCHEDULED ON THE DRAWINGS COMPLETE WITH BASES, ISOLATORS, SUPPORTS AND OTHER REQUIRED ACCESSORIES.

2. INSTALL COMPLETE SYSTEMS AND PLACE IN PROPER OPERATION PER MANUFACTURER'S RECOMMENDATIONS, LUBRICATE AND ADJUST AS REQUIRED. FURNISH AND INSTALL CLEAN SET OF FILTERS PRIOR TO BALANCING.

3. EQUIPMENT TO BE MAKE AND MODEL AS SCHEDULED UNLESS ALTERNATE EQUIPMENT OF EQUIVALENT QUALITY AND PERFORMANCE IS SUBMITTED AS A SUBSTITUTION PRIOR TO BIDDING. ALL SUBSTITUTIONS ARE SUBJECT TO ACCEPTANCE WITHOUT QUALIFICATION BY OWNER, ENGINEER AND ARCHITECT.

AIR DISTRIBUTION SYSTEMS

A. GENERAL

1. FURNISH ALL MATERIALS, LABOR, EQUIPMENT AND ACCESSORIES REQUIRED TO INSTALL COMPLETE AIR DISTRIBUTION SYSTEMS.

2. VERIFY EXACT CONDITIONS IN FIELD AND COORDINATE WITH THE DRAWINGS AND OTHER TRADES BEFORE BEGINNING NEW WORK.

3. DETERMINE EXACT LOCATIONS FOR ALL NEW DUCTWORK AND ACCESSORIES IN THE FIELD.

4. COORDINATE WORK OF THIS CONTRACT WITH OTHER TRADES.

5. ANY DISCREPANCIES BETWEEN WHAT IS SHOWN ON DRAWINGS OR SPECIFIED AND THE ACTUAL CONDITIONS IN THE FIELD SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING. BUILDING AND SURFACES DAMAGED DURING INSTALLATION SHALL BE REPAIRED, REPLACED, AND/OR RESTORED TO ORIGINAL CONDITION AFTER COMPLETION OF WORK AND BEFORE ACCEPTANCE BY OWNER.

B. DUCTWORK

1. FABRICATE AND ERECT ALL DUCTWORK TO SMACNA STANDARDS FOR GALVANIZED STEEL. COMPLY WITH NFPA 90A REQUIREMENTS.

2. DUCTWORK SHALL BE SMACNA LOW PRESSURE CONSTRUCTION 1" STATIC PRESSURE RATING WITH SEAL CLASS B SEAMS AND JOINTS.

3. INCLUDE ALL ACOUSTIC, AIRFOIL SHAPED PERFORATED ALUMINUM TURNING VANES, MANUAL DAMPERS, FLEXIBLE CONNECTORS, GRILLES AND DIFFUSERS, ACOUSTIC LINING, AND OTHER SHEET METAL ACCESSORIES FOR THE PROJECT.

4. EXHAUST DUCT OUTLETS SHALL BE INSTALLED A MINIMUM OF 10 FEET FROM ALL OUTSIDE AIR INTAKES.

C. DUCT ACCESSORIES

1. FLEXIBLE DUCTS (WHERE REQUIRED, AS MANUFACTURED BY CLEAFLEX, FLEXMASTER OR WIREMOLD).

a. FLEXIBLE DUCTS (WHERE REQUIRED SHALL BE INDEPENDENTLY SUPPORTED FROM THE STRUCTURE AND CONNECTED WITH PLASTIC DRAW BANDS AND TIGHTENED. FLEXIBLE DUCTS SHALL BE LIMITED TO 48" MAXIMUM STRAIGHT LENGTHS. FLEXIBLE DUCTS SHALL BE CONSTRUCTED WITH 1/2" MINIMUM WALL THICKNESS WITH VAPOR BARRIER JACKET AND RATED AT 10" WC FOR SIZES THROUGH 12". UL LISTED, AND MEET 25/50 FLAME AND SMOKE TEST. FLEXIBLE DUCTS ARE NOT PERMITTED IN ROOMS WITHOUT CEILINGS.

2. DAMPERS (AS MANUFACTURED BY RUSKIN, NAILOR OR SAFE-AIR)

a. FABRICATE IN ACCORDANCE WITH SMACNA STANDARDS. PROVIDE END BEARINGS AND LOCKING, INDICATING QUADRANT REGULATORS, BLADE TO BE SINGLE THICKNESS WITH CONTINUOUS HINGE OR ROD.

HVAC INSTRUMENTATION AND CONTROLS

A. GENERAL

1. FURNISH AND INSTALL COMPLETE TEMPERATURE CONTROL FOR ALL HVAC SYSTEMS.

2. PROVIDE NEW CONTROL DEVICES INCLUDING THERMOSTATS, STAGING RELAYS AND OTHER RELATED DEVICES FOR A COMPLETE OPERATIONAL SYSTEM PER THE OPERATING SEQUENCE AND INDUSTRY STANDARDS.

3. MOUNT ALL CONTROLS FURNISHED AS ACCESSORIES TO EQUIPMENT AND PROVIDE ALL CONTROL WIRING REQUIRED FOR PROPER OPERATION. ALL WIRING SHALL BE IN CONDUIT PER NEC AND LOCAL CODE REQUIREMENTS.

A. GENERAL

1. AFTER INSTALLATION, CHECK ALL EQUIPMENT AND PERFORM START UP IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

2. ALL PIPING SHALL BE TESTED AND FREE OF LEAKS AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

3. WORK THAT IS SCHEDULED TO BE CONCEALED OR INSULATED SHALL REMAIN UNCOVERED UNTIL REQUIRED TESTS HAVE BEEN COMPLETED. IF THE CONSTRUCTION SCHEDULE REQUIRES, ARRANGE FOR TESTS ON SECTIONS OF THE SYSTEM AT A TIME.

4. BALANCE ALL SYSTEMS, CALIBRATE CONTROLS, CHECK FOR PROPER OPERATION AND SEQUENCE UNDER ALL CONDITIONS AND MAKE ALL NECESSARY ADJUSTMENTS.

5. INSTRUCT OWNER IN OPERATION OF SYSTEMS AND OPERATING AND MAINTENANCE MANUAL FOR ALL EQUIPMENT AND SYSTEMS.

6. AIR AND WATER BALANCE REPORT FROM INDEPENDENT AABC OR NEBB CERTIFIED SUBCONTRACTOR FOR ALL AIR AND WATER SYSTEMS PER AABC OR NEBB STANDARDS.

B. BALANCING, START UP AND INSTRUCTIONS

1. AFTER EQUIPMENT IS PLACED IN OPERATION, SYSTEMS SHALL BE BALANCED WITHIN 10% OF DESIGN FLOW WITH REPORT SUBMITTED TO OWNER. BALANCING SHALL BE PERFORMED BY AN INDEPENDENT AABC OR NEBB CERTIFIED CONTRACTOR.

2. START UP AND PLACE ALL SYSTEMS IN OPERATION AND TAG ALL SWITCHES AND CONTROLS WITH PERMANENT LABELS INSTRUCT OWNER ON PROPER OPERATION AND PREVENTATIVE MAINTENANCE OF SYSTEM.

Jacobs

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AMITY
LODGES

CRIOLLO LODGE

1218 KIZZER LANE
JAL, NEW MEXICO 88252

PROJECT NUMBER:

WFXP7601

DATE ISSUED:

10-3-19

ISSUES:

A: FOR REVIEW ONLY 10/3/19

B: INTERIM SUBMITTAL 5/01/2019

C: 95% PROGRESS SET 6/21/2019

D: FOR CONSTRUCTION 10/03/2019

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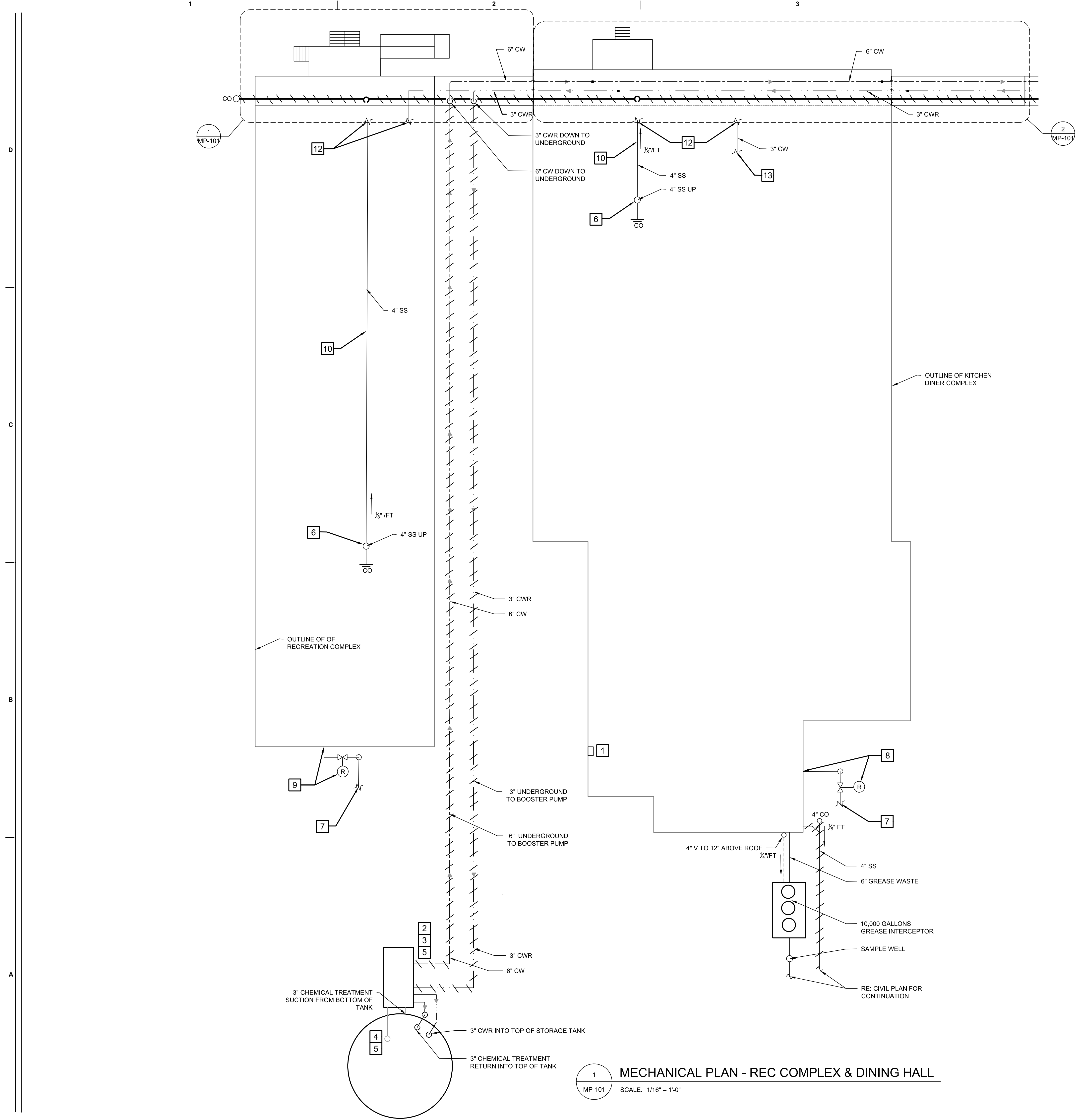
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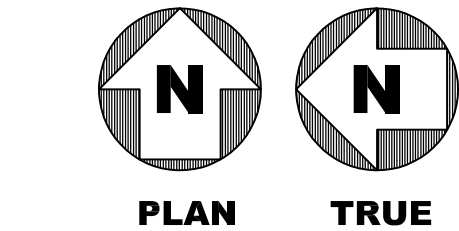
SHEET NUMBER:

MP002

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- KEYNOTES**
- GREASE INTERCEPTOR CONTROL PANEL AND ALARM.
 - DOMESTIC BOOSTER PUMP DBP-1 LOCATED INSIDE PUMP HOUSE. PIPE 6" DCW FROM DBP-1 TO BELOW GRADE AND CONTINUE AS SHOWN.
 - LOCATE CHEMICAL TREATMENT SYSTEM, CT-1, WITHIN PUMP HOUSE.
 - FIRE AND DOMESTIC WATER STORAGE TANK, REFER TO FIRE PROTECTION DRAWINGS. DOMESTIC WATER BOOSTER PUMP SHALL PULL FROM AN INTERNAL STANDPIPE WITHIN TANK. STANDPIPE SHALL TERMINATE ABOVE MINIMUM CAPACITY FOR THE FIRE WATER STORAGE.
 - FURNISH AUTOMATIC CONTROL VALVE, WATTS #LFF116-31, IN RETURN LINE TO TANK. VALVE SHALL BE LOCATED WITHIN PUMP HOUSE. AUTOMATIC CONTROL VALVE SHALL MAINTAIN BACK PRESSURE AT 65-70 PSI. MOUNT ACV AT 24" A.F.F. ON EXTERIOR WALL INSIDE PUMP HOUSE.
 - COORDINATE EXACT LOCATION OF CONNECTION WITH PRE-MANUFACTURER BUILDING REQUIREMENTS.
 - 2" MEDIUM PRESSURE GAS. REFER CIVIL FOR CONTINUATION.
 - SIZE REGULATOR FOR 12,426 CFH WITH MEDIUM PRESSURE ENTERING AND 14" w.c. LEAVING PRESSURE. COORDINATE EXACT BUILDING CONNECTION AND PRESSURE REQUIREMENTS WITH PRE-MANUFACTURED BUILDING REQUIREMENTS.
 - SIZE REGULATOR FOR 945 CFH WITH MEDIUM PRESSURE ENTERING AND 14" w.c. LEAVING PRESSURE. COORDINATE EXACT BUILDING CONNECTION AND PRESSURE.
 - SUPPORT 4" SS LINE TO BOTTOM OF PRE-MANUFACTURER BUILDING STRUCTURE. FIELD COORDINATE LOCATION.
 - STAND PIPE SHALL BE INSTALLED ABOVE WATER LINE OF MAXIMUM WATER NEEDED FOR FIRE PROTECTION. DEPENDING ON DIAMETER OF TANK HEIGHT WILL VARY. COORDINATE MINIMUM VOLUME BELOW STAND PIPE WITH FIRE PROTECTION AND MAINTAIN 45,000 GALLONS ABOVE STAND PIPE ENTRY.
 - RE: MP101 FOR CONTINUATION.
 - 3" CONNECT AS REQUIRED BY MODULAR BUILDING MANUFACTURER. FIELD COORDINATE LOCATION.



0 8' 16' 32'
SCALE: 1/16"=1'-0"

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10/3/2019

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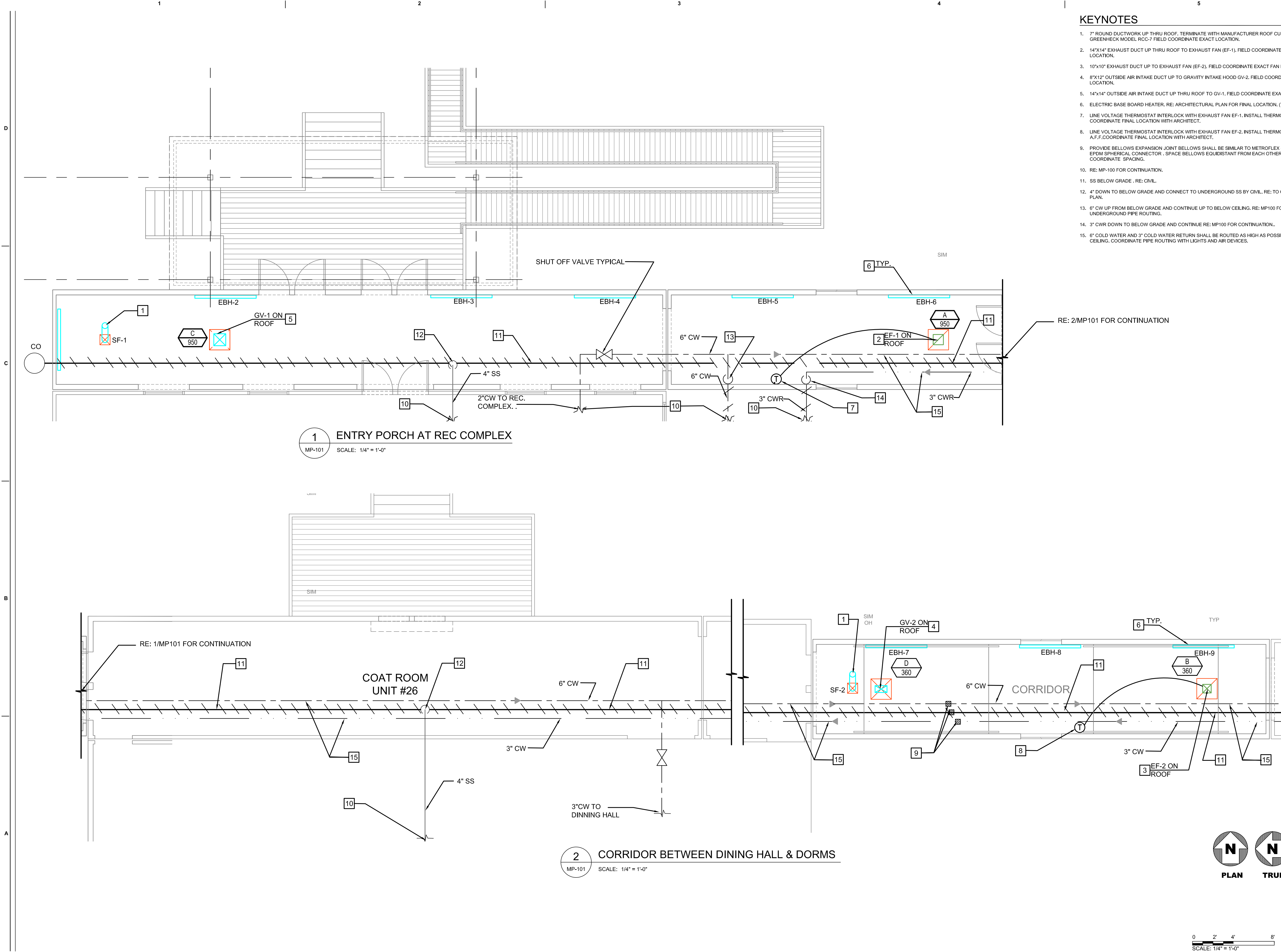
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B: INTERIM SUBMITTAL	5/01/2019
C: 95% PROGRESS SET	6/21/2019
D: FOR CONSTRUCTION	10/03/2019

REVISIONS:

SHEET CONTENTS:
REC COMPLEX & DINING HALL

SHEET NUMBER:
MP100

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KEYNOTES

- 7" ROUND DUCTWORK UP THRU ROOF. TERMINATE WITH MANUFACTURER ROOF CURB SIMILAR TO GREENHECK MODEL RCC-7 FIELD COORDINATE EXACT LOCATION.
- 14"x14" EXHAUST DUCT UP THRU ROOF TO EXHAUST FAN (EF-1). FIELD COORDINATE EXACT FAN LOCATION.
- 10"x10" EXHAUST DUCT UP TO EXHAUST FAN (EF-2). FIELD COORDINATE EXACT FAN LOCATION.
- 8"x12" OUTSIDE AIR INTAKE DUCT UP TO GRAVITY INTAKE HOOD GV-2. FIELD COORDINATE EXACT LOCATION.
- 14"x14" OUTSIDE AIR INTAKE DUCT UP THRU ROOF TO GV-1. FIELD COORDINATE EXACT LOCATION.
- ELECTRIC BASE BOARD HEATER, RE: ARCHITECTURAL PLAN FOR FINAL LOCATION, (TYPICAL OF 9)
- LINE VOLTAGE THERMOSTAT INTERLOCK WITH EXHAUST FAN EF-1. INSTALL THERMOSTAT 48" A.F.F. COORDINATE FINAL LOCATION WITH ARCHITECT.
- LINE VOLTAGE THERMOSTAT INTERLOCK WITH EXHAUST FAN EF-2. INSTALL THERMOSTAT AT 48" A.F.F.COORDINATE FINAL LOCATION WITH ARCHITECT.
- PROVIDE BELLOWS EXPANSION JOINT BELLOWS SHALL BE SIMILAR TO METROFLEX STYLE 711 WIDE EPDM SPHERICAL CONNECTOR . SPACE BELLOWS EQUIDISTANT FROM EACH OTHER . FIELD COORDINATE SPACING.
- RE: MP-100 FOR CONTINUATION.
- SS BELOW GRADE . RE: CIVIL.
- 4" DOWN TO BELOW GRADE AND CONNECT TO UNDERGROUND SS BY CIVIL. RE: TO CIVIL UTILITIES PLAN.
- 6" CW UP FROM BELOW GRADE AND CONTINUE UP TO BELOW CEILING. RE: MP100 FOR UNDERGROUND PIPE ROUTING.
- 3" CWR DOWN TO BELOW GRADE AND CONTINUE RE: MP100 FOR CONTINUATION..
- 6" COLD WATER AND 3" COLD WATER RETURN SHALL BE ROUTED AS HIGH AS POSSIBLE BELOW CEILING. COORDINATE PIPE ROUTING WITH LIGHTS AND AIR DEVICES.

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10/3/2019

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REC COMPLEX & DINING
AREA ENTRY

SHEET NUMBER:

MP101

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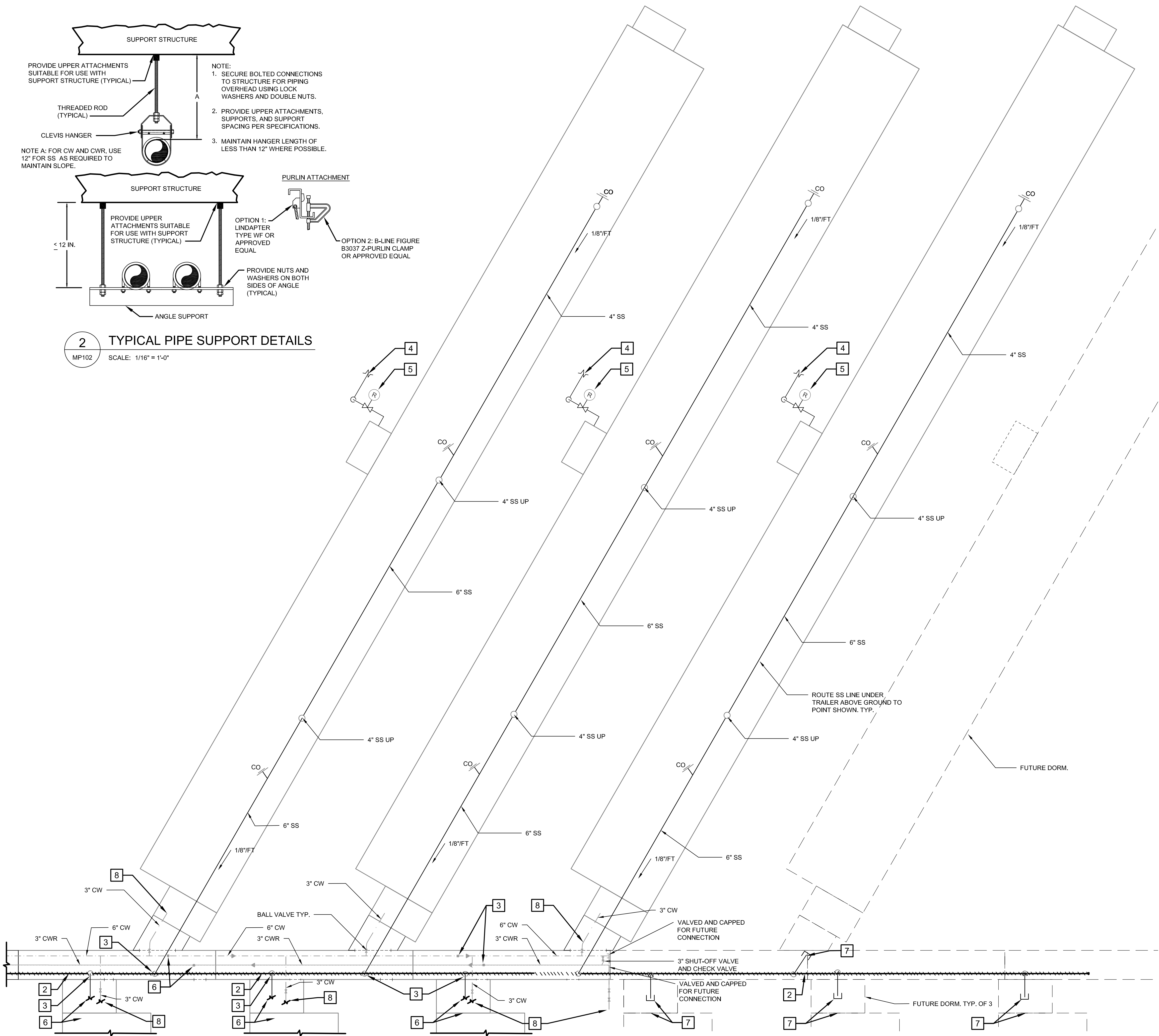
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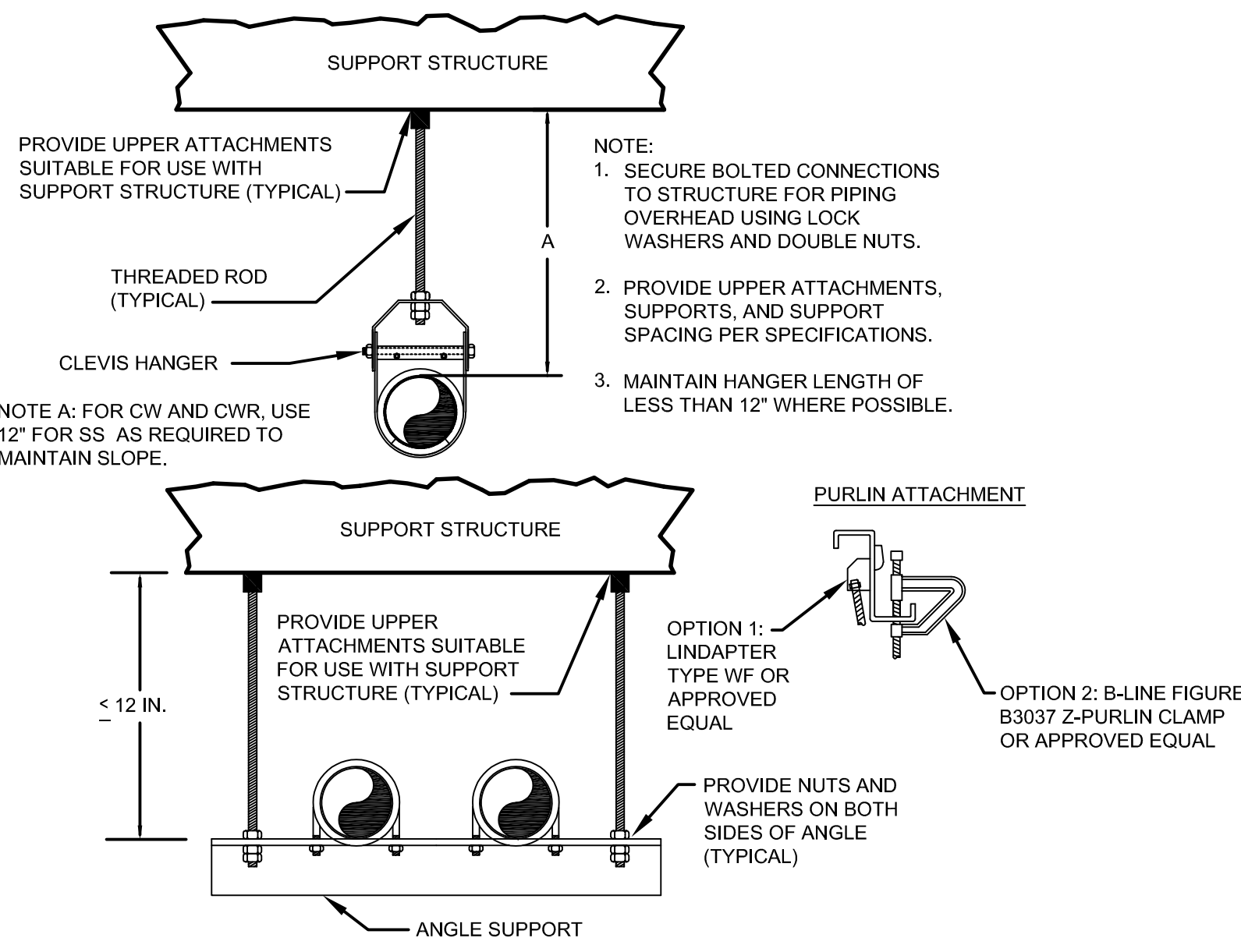
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1 MECHANICAL PLAN - DORMITORIES EAST
MP102 SCALE: 1/16" = 1'-0"



2 TYPICAL PIPE SUPPORT DETAILS
MP102 SCALE: 1/16" = 1'-0"

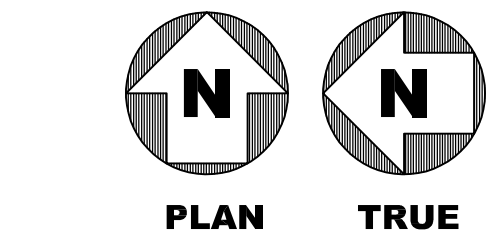
GENERAL NOTES:

- MODULAR DORMITORIES. PIPING IS TYPICAL FOR ALL MODULAR DORMITORIES.
- ROUTE CW AND CWR PIPING AT CEILING LEVEL.

KEYNOTES

GENERAL NOTES:

- PROVIDE BELLOWS EXPANSION JOINT. BELLOWS SHALL BE SIMILAR TO METRAFLEX STYLE 711 WIDE EPDM SPHERICAL CONNECTOR. BELLOWS SHALL MATCH PIPE SIZE. SPACE BELLOWS EQUIDISTANCE FROM EACH OTHER. FIELD COORDINATE.
- SS BELOW GRADE. RE: CIVIL.
- 4" SS DOWN TO BELOW AND CONNECT TO UNDERGROUND SS BY CIVIL. RE: CIVIL UTILITIES PLAN.
- 2" MEDIUM PRESSURE GAS. RE: CIVIL FOR CONTINUATION.
- SIZE REGULATOR FOR 2660 CFH WITH MEDIUM PRESSURE ENTERING AND 14" LEAVING PRESSURE. COORDINATE EXACT BUILDING CONNECTION AND PRESSURE REQUIREMENTS WITH PRE-MANUFACTURER BUILDING REQUIREMENTS.
- DORMS SOUTH OF CORRIDOR SHALL HAVE SAME PLUMBING CONNECTIONS AS DORMS NORTH OF CORRIDOR, INCLUDING CW, SS, AND GAS.
- 6" SS STUB OUT FOR FUTURE MODULAR BUILDINGS. PROVIDE AT EACH FUTURE MODULAR BUILDING. REFER TO ARCHITECTURE; DRAWINGS A101 FOR PROPOSED LOCATIONS FOR FUTURE MODULAR BUILDINGS. TENTATIVELY SHOWN ON ARCHITECTURAL TO ONE FUTURE BUILDING NORTH OF MAIN CORRIDOR AND THREE FUTURE BUILDINGS SOUTH OF MAIN CORRIDOR.
- 3" CW TO MODULAR DORMITORY BUILDINGS. CONNECT AS REQUIRED BY MODULAR BUILDING MANUFACTURER.



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10/3/2019

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PROJECT NUMBER:
WFXP7601

DATE ISSUED:
10-3-19

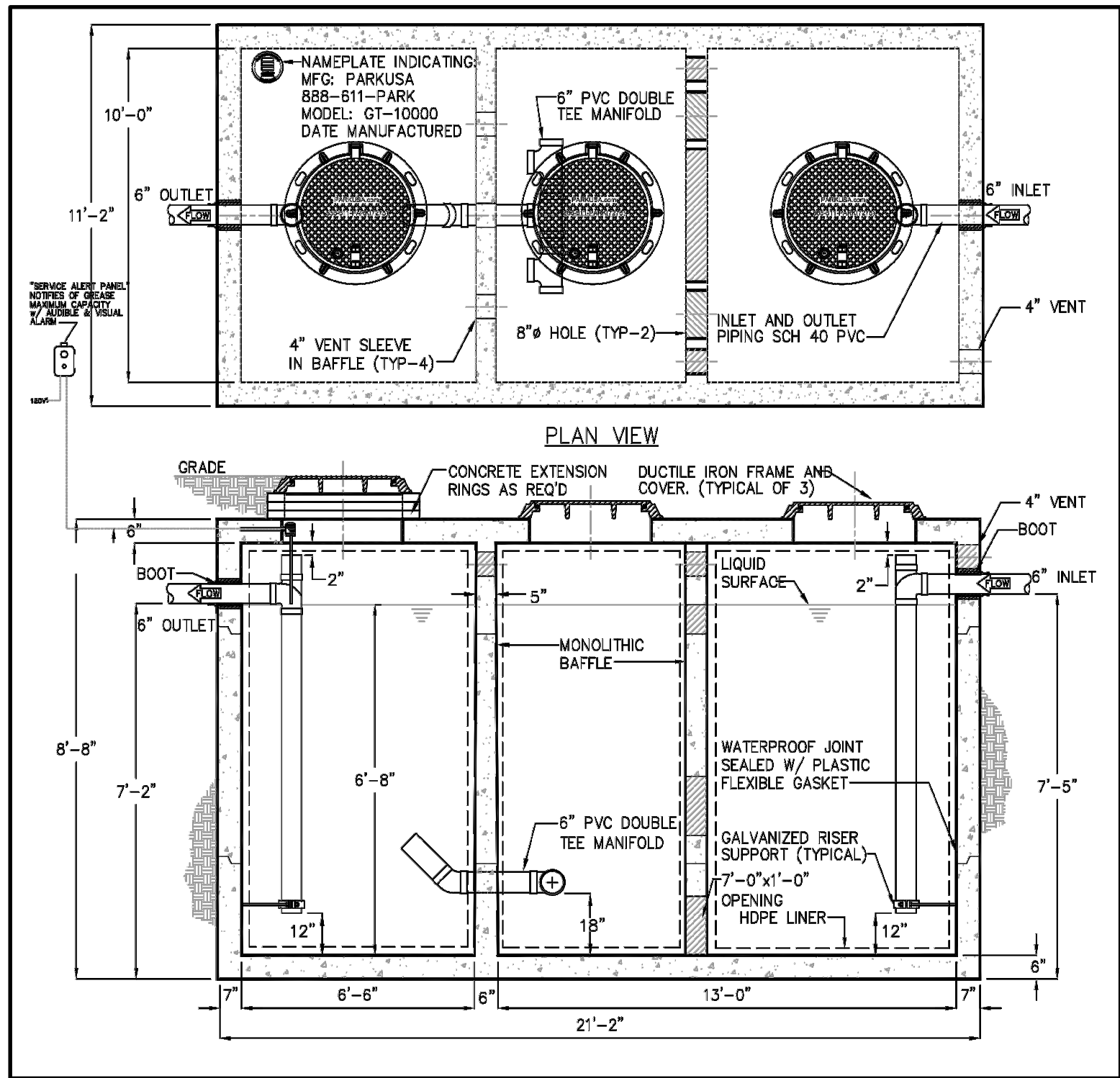
ISSUES:

A: FOR REVIEW ONLY	10/3/19
B: INTERIM SUBMITTAL	5/01/2019
C: 95% PROGRESS SET	6/21/2019
D: FOR CONSTRUCTION	10/03/2019

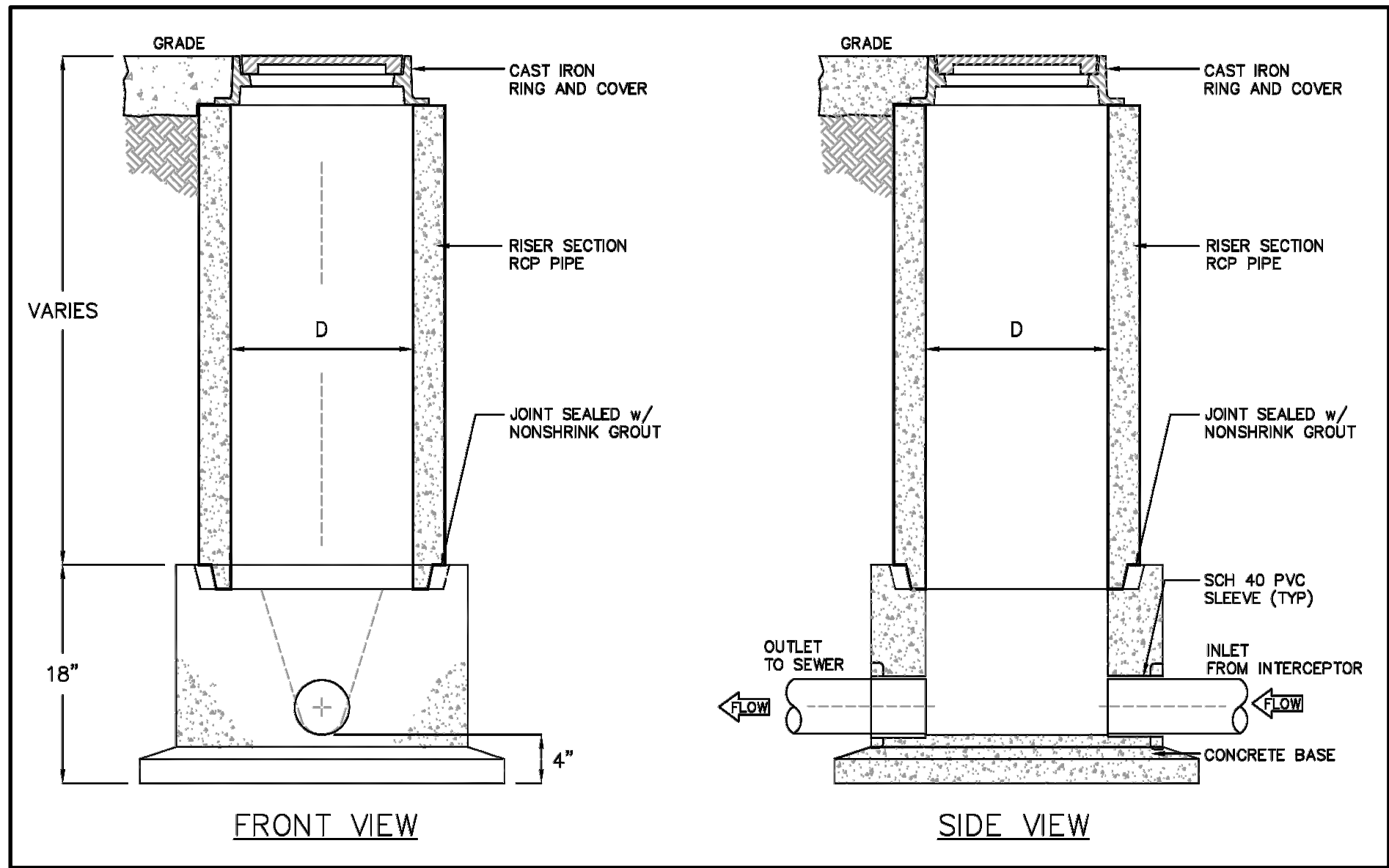
REVISIONS:

SHEET CONTENTS:
DORMITORIES EAST

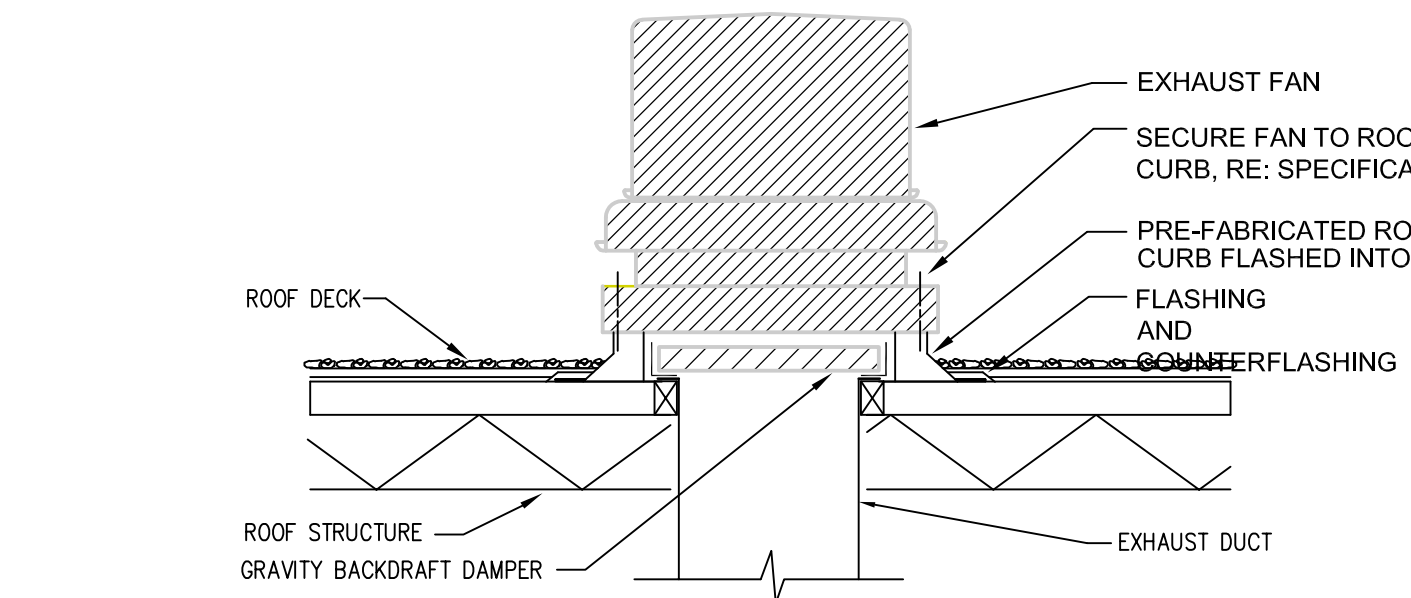
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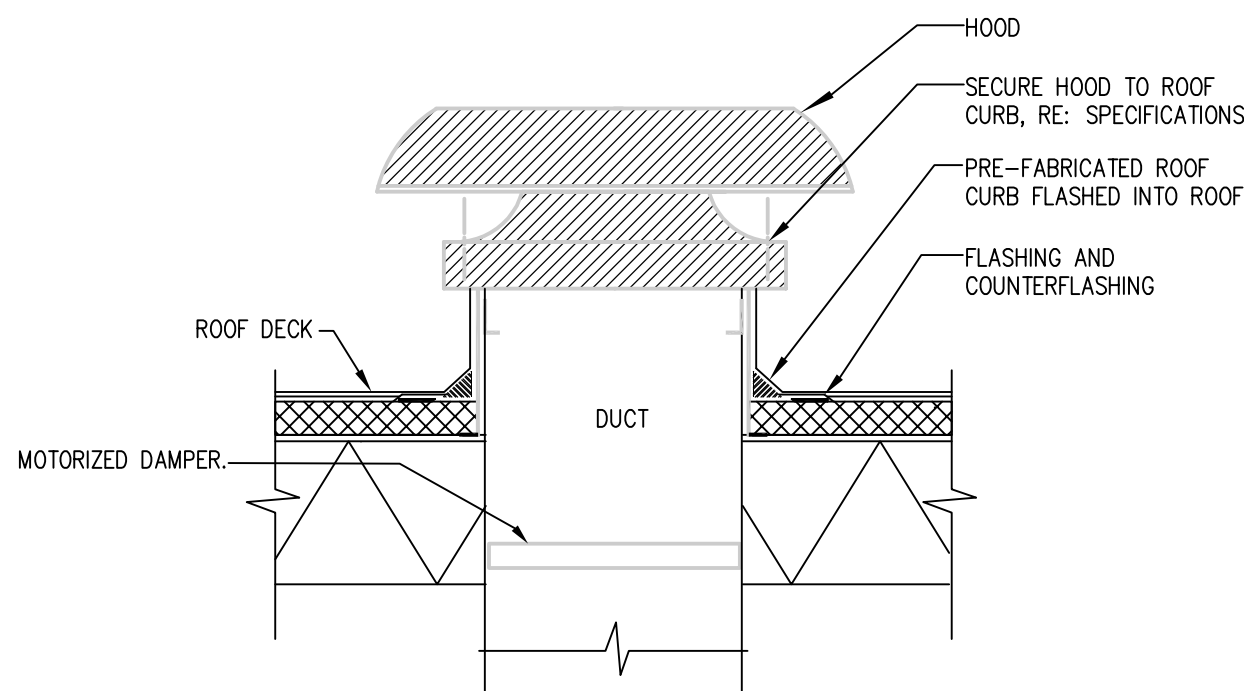
1 GREASE INTERCEPTOR DETAIL
MP-600 SCALE: NOT TO SCALE



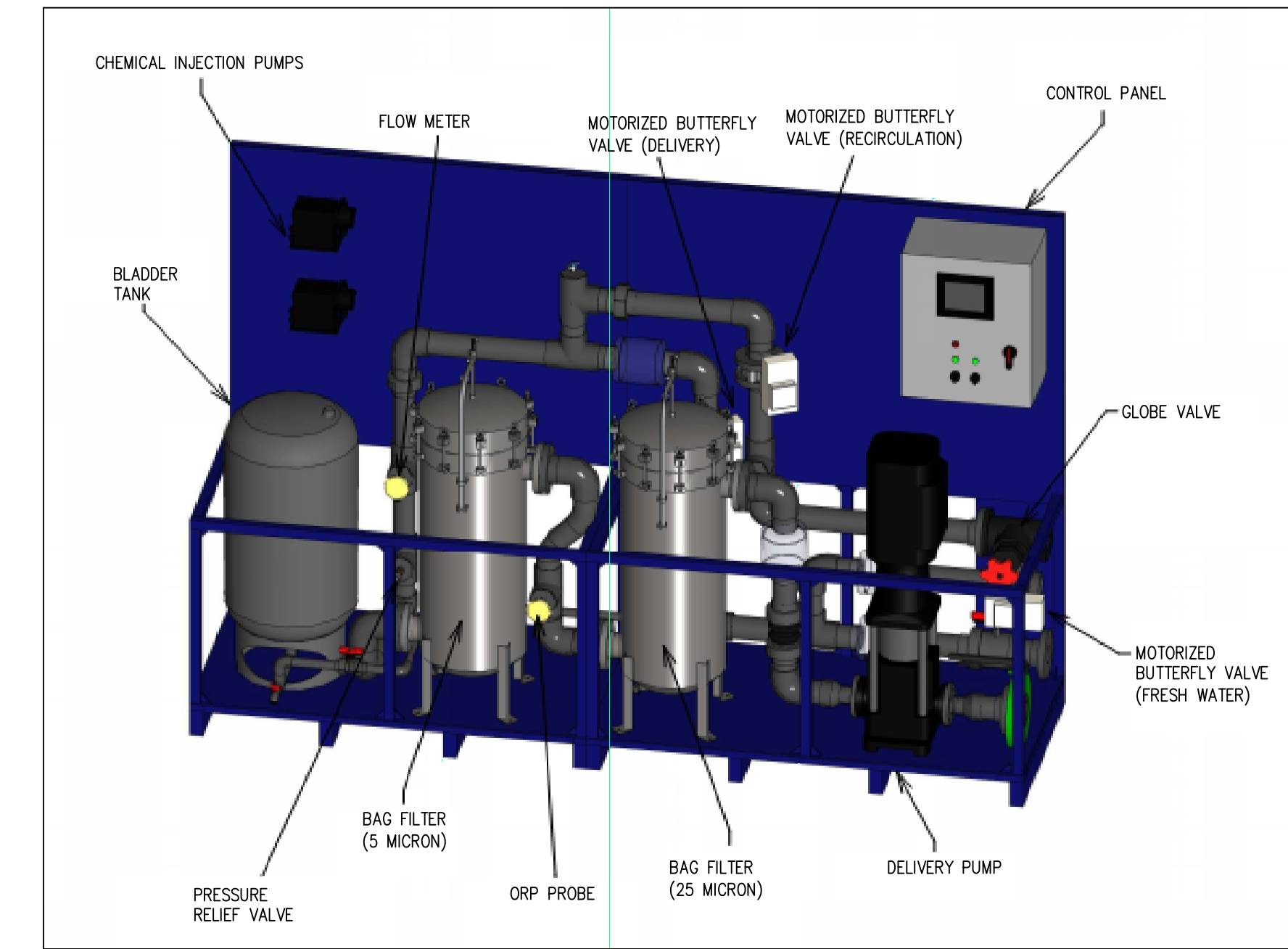
2 SAMPLE WELL DETAIL
MP-600 SCALE: NOT TO SCALE



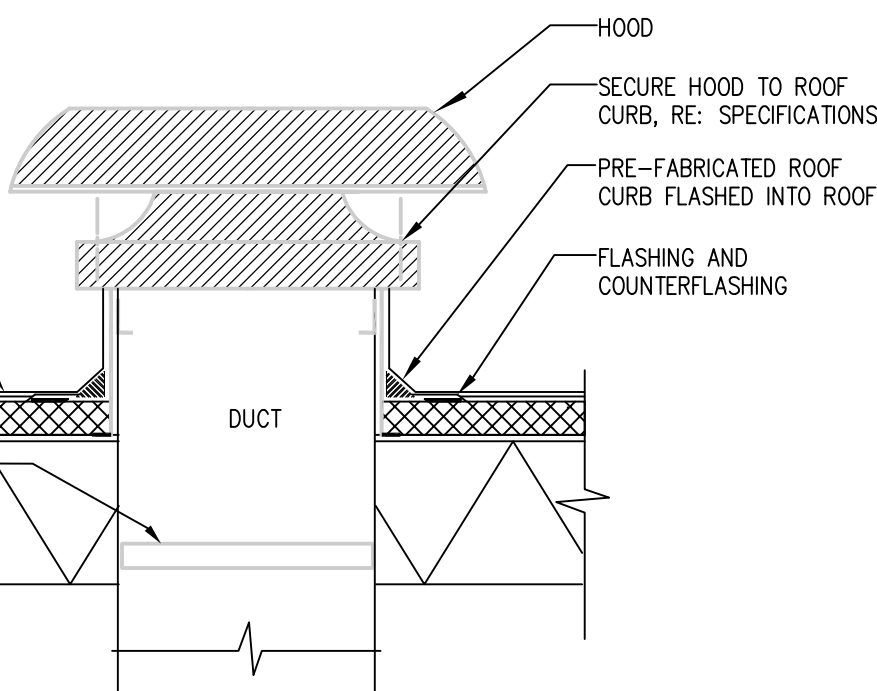
3 ROOFTOP EXHAUST FAN DETAIL
MP-600 SCALE: NOT TO SCALE



6 TYPICAL ROOF MOUNTED FAN OR HOOD
MP-600 SCALE: NOT TO SCALE



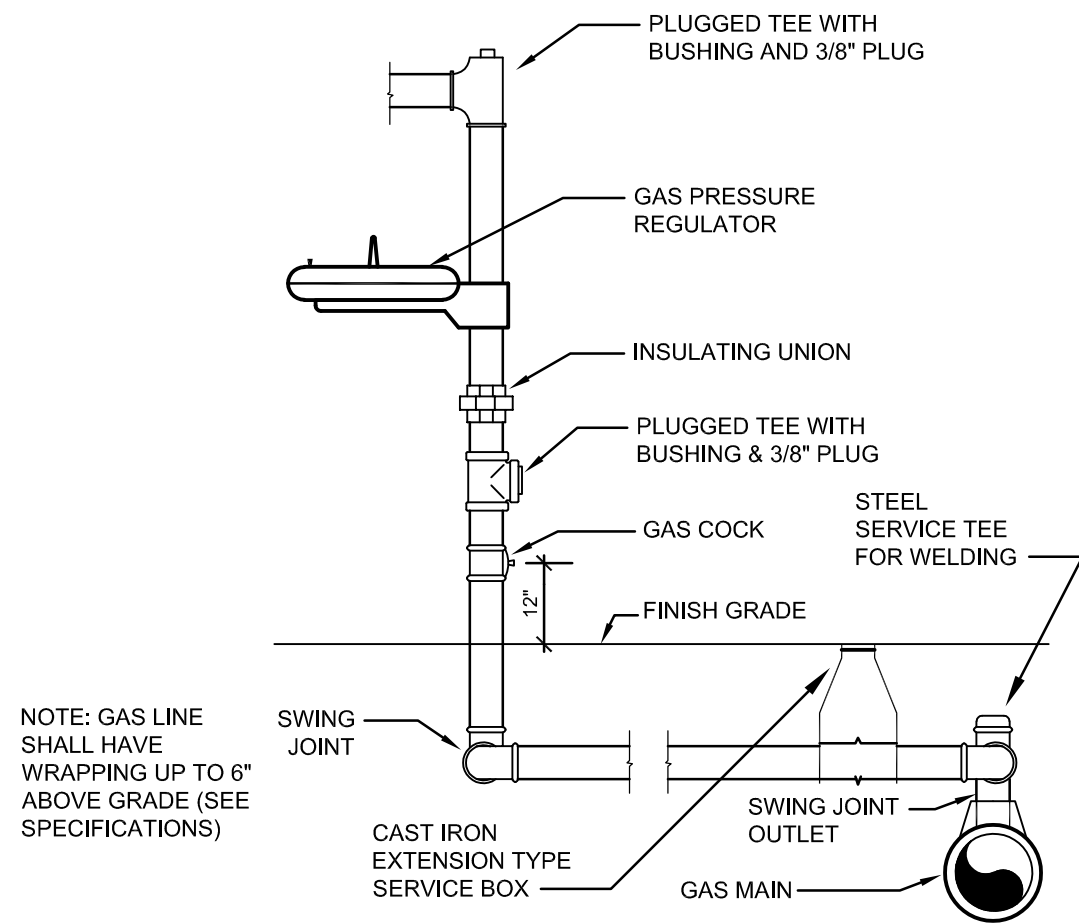
5 CHEMICAL TREATMENT SYSTEM DETAIL
MP-600 SCALE: NOT TO SCALE



FAN SCHEDULE

EQUIPMENT TAG	LOCATION	LNTH FT	ELECTRICAL				MODEL NUMBER	REMARKS
			WATTS/ FT	VOLT	PHASE	MAX AMPS		
EBH1 THRU 9	CORRIDOR	6	250	120	1	25	E9172250ITS	1 2

NOTE: 1. ALL MODEL NUMBERS ARE MARKEL UNLESS OTHERWISE NOTED.
2. PROVIDE SINGLE POLE THERMOSTAT AND DISCONNECT SWITCH THAT ARE FACTORY WIRED IN ENCLOSURE JUNCTIONBOX ON ERACH END OF HEATERS ENCLOSURE.



4 GAS SERVICE CONNECTION
MP-600 SCALE: NOT TO SCALE

INTAKE HOODS AND FAN SCHEDULE

EQUIPME NT TAG	LOCATION	AIRFLOW (CFM)	NECK SIZE	ESP IN INCHES	DRIVE	ELECTRICAL				MODEL NUMBER	REMARKS
						HP	RPM	VOLT	PHASE		
EF-1	CORRIDOR	950	12"x12"	0.25	DIRECT	.25	1725	120	1	GREENHECK G-099	1,2,3
EF-2	CORRIDOR 2	380	10"x10"	0.25	DIRECT	.25	1725	120	1	GREENHECK G-080	*x
SF-1 & 2	CORRIDOR	100	7"Ø	0.125	DIRECT	.12	95	120	1	GREENHECK CSP-B110	*
GV-1	CORRIDOR	950	14"x14"	0.071	---	---	---	---	---	GREENHECK FGI 14X14	4,5
GV-2	CORRIDOR	380	8"x12"	0.071	---	---	---	---	---	GREENHECK FGI 8X12	4,5

NOTE: 1. PROVIDE FAN WITH A VARI GREEN MOTOR.
2. MANUFACTURERS ROOF CURB
3. PROVIDE BACK DRAFT DAMPER.
4. PROVIDE WITH MANUFACTURER CURB-CAP MODEL RCC-7
5. PROVIDE UNIT WITH MOTORIZED RELIEF AIR DAMPER. INTERLOCK DAMPER WITH ASSOCIATED EXHAUST FAN. GV-1 INTERLOCK WITH EF-1, GV-2 INTERLOCK WITH EF-2

PUMP SCHEDULE

EQUIPMENT TAG	DESCRIPTION	TYPE	LOCATION	GPM (MAXIMUM)	DISCHARGE PRESSURE (PSI)	ELECTRICAL				MANUFACTURE R	MODEL
						VOLT	PHASE	RPM	HP		
DBP-1	TRIPLEX DOMESTIC WATER CENTRIFUGAL BOOSTER PUMP STATION	TRIPLEX CENTRIFUGAL	PUMP HOUSE	750	78	460	3	3600	15 (QUANTITY 3)	ARMSTRONG	N360212-15

NOTES: 1. BOOSTER PUMP STATION SHALL BE FACTORY FABRICATED AND SKID MOUNTED.
2. EACH PUMP SHALL BE A VERTICAL INLINE TYPE.
3. FURNISH WITH CONTROL PANEL.
4. SUCTION HEADER AND DISCHARGE HEADER TO BE 6".
5. EACH PUMP SHALL BE FURNISHED WITH A VFD.
6. ONE PUMP SHALL OPERATE AT ALL TIMES AT A MINIMUM OF 100 GPM, CIRCULATING BACK TO THE STORAGE TANK. THE CONTINUALLY OPERATING PUMP SHALL ALTERNATE DAILY.

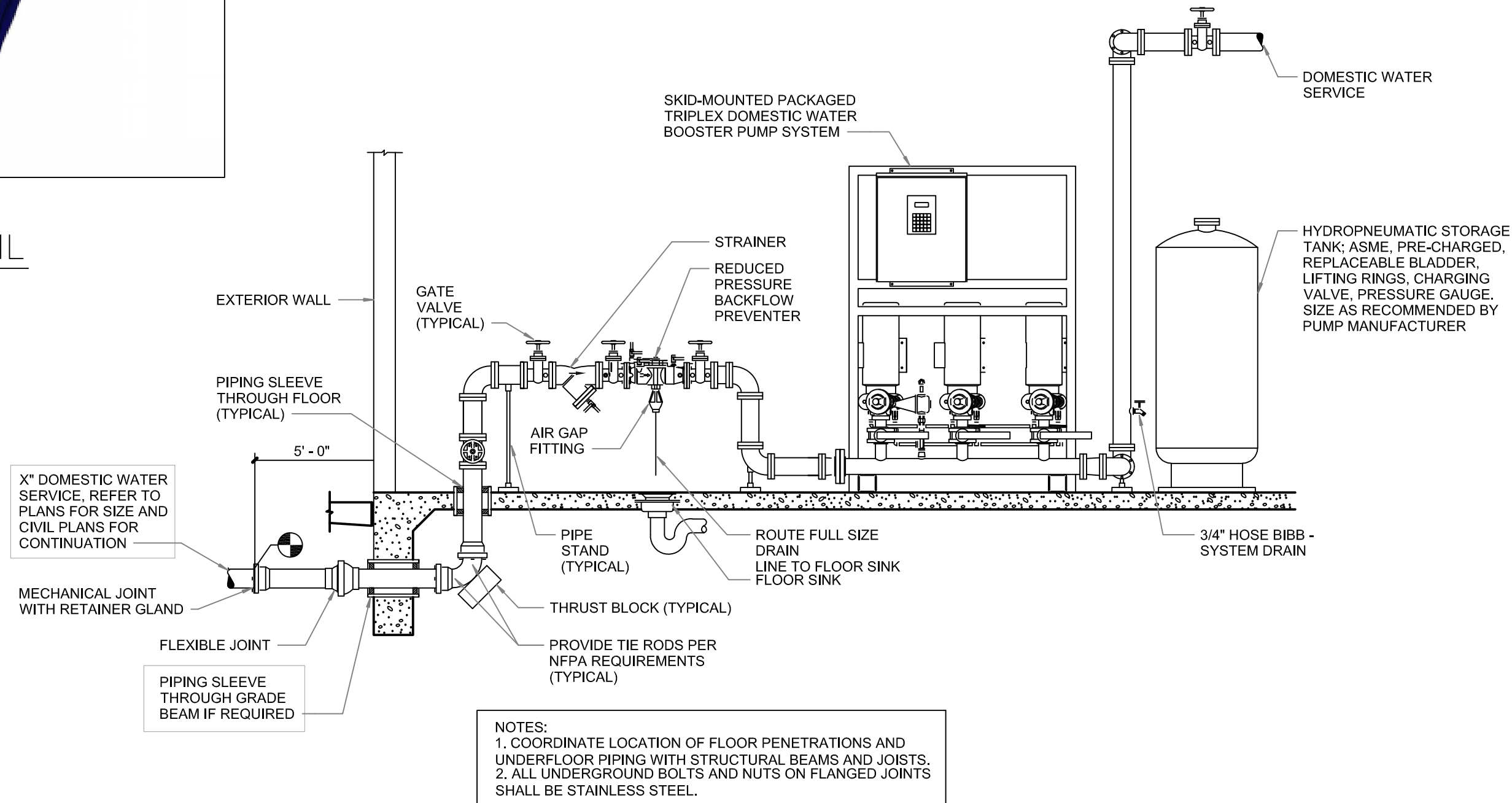
AIR DEVICE SCHEDULE

MARK	SERVICE	INLET SIZE	CFM	CEILING TYPE	FACE SIZE	MNUFACTURER	MODEL NUMBER	MATERIAL	REMARKS
A	CORRIDOR	12"x12"	950	LAY IN	24"x24"	TITUS	50 F	ALUMINUM	
B	CORRIDOR	10"x10"	360	LAY IN	24"x24"	TITUS	50 F	ALUMINUM	
C	CORRIDOR	14"x14"	950	LAY IN	24"x24"	TITUS	50 F	ALUMINUM	
D	CORRIDOR	8"x14"	360	LAY IN	24"x24"	TITUS	50 F	ALUMINUM	

CHEMICAL TREATMENT SYSTEM SCHEDULE

EQUIPMENT TAG	LOCATION	PRIMARY CHEMICAL	FIRST STAGE FILTRATION	SECOND STAGE FILTRATION	INTEGRAL DELIVERY PUMP				MANUFACTURER	MODEL
					GPM	HEAD (FT)	HP	VOLTS/PH		
CT-1	PUMP HOUSE	SODIUM HYPOCHLORITE	25 MICRON	5 MICRON	50	75	MAX. 10	460/3	WATER CONTROL INC.	WCC-RW-CL-160

NOTE: UNIT SHALL BE FACTORY-FABRICATED AND SKID-MOUNTED. FURNISH WITH CONTROL PANEL



7 DOMESTIC WATER BOOSTER PUMP STATION DETAIL
MP-600 SCALE: NOT TO SCALE

D

C

B

A

ELECTRICAL SYMBOLS (ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON PLANS)	
SITE PLAN	ELECTRICAL EQUIPMENT
<div><div>— EUP —</div><div>NEW UNDERGROUND PRIMARY</div></div> <div><div>— ES —</div><div>NEW UNDERGROUND SECONDARY</div></div> <div><div>— UT —</div><div>EXISTING UNDERGROUND TELEPHONE</div></div> <div><div>— UC —</div><div>NEW UNDERGROUND COMMUNICATIONS</div></div> <div><div><div>HE</div></div><div>NEW ELECTRICAL HANDHOLE</div></div> <div><div><div>HC</div></div><div>NEW COMMUNICATIONS HANDHOLE</div></div> <div><div><div>PBC</div></div><div>NEW COMMUNICATIONS PULL-BOX</div></div> <div><div><div>T</div></div><div>NEW PADMOUNTED TRANSFORMER</div></div> <div><div><div>XS</div></div><div>PADMOUNTED SWITCH</div></div> <div><div><div>○□</div></div><div>POLE MOUNT SITE LIGHTING</div></div>	<div><div><div></div></div><div>SWITCHBOARD</div></div> <div><div><div></div></div><div>DISTRIBUTION PANEL OR PANELBOARD, (FLUSH OR SURFACE MOUNT) AS INDICATED ON PANEL SCHEDULE.</div></div> <div><div><div>T</div></div><div>DRY-TYPE TRANSFORMER</div></div>
MOTORS AND CONTROLS	
	<div><div><div>PC</div></div><div>PHOTOCONTROL</div></div> <div><div><div>TC</div></div><div>TIMECLOCK</div></div> <div><div><div></div></div><div>DISCONNECT SWITCH (200/3/INF) DENOTES AMPERES/NON-FUSED</div></div> <div><div><div></div></div><div>DISCONNECT SWITCH (200/3/150) DENOTES AMPERES/FUSE</div></div>
ONE LINE DIAGRAMS	
	<div><div><div></div></div><div>TRANSFORMER, DESIGNATION AND RATINGS AS NOTED (DELTA CONNECTED PRIMARY AND WYE CONNECTED SECONDARY) UNLESS OTHERWISE NOTED</div></div> <div><div><div></div></div><div>GROUND CONNECTION</div></div>
CIRCUITING AND WIRING	
<div><div><div>-----</div></div><div>CIRCUIT BELOW SLAB OR GRADE OR CAST IN SLAB ABOVE GRADE UNLESS OTHERWISE NOTED</div></div> <div><div><div>LA-2,4,6</div></div><div>WHERE SHOWN, INDICATES HOMERUN TO PANEL WITH CIRCUIT NUMBER(S) AS INDICATED.</div></div> <div><div><div>○—</div></div><div>CONDUIT STUB UP</div></div> <div><div><div>●—</div></div><div>CONDUIT STUB DOWN</div></div> <div><div><div>↗</div></div><div>DIRECT ELECTRICAL CONNECTION TO EQUIPMENT</div></div> <div><div><div>⊗</div></div><div>GROUND ROD</div></div>	
ABBREVIATIONS	
<div><div>GEC</div><div>GROUNDING ELECTRODE CONDUCTOR</div></div> <div><div>MGB</div><div>MAIN GROUNDING BUSBAR</div></div> <div><div>TMGB</div><div>TELECOMMUNICATIONS MAIN GROUNDING BUSBAR</div></div> <div><div>TGB</div><div>TELECOMMUNICATIONS GROUNDING BUSBAR</div></div> <div><div>BC</div><div>BONDING CONDUCTOR, BELOW COUNTER</div></div> <div><div>TBB</div><div>TELECOMMUNICATIONS BONDING BACKBONE</div></div> <div><div>SPD</div><div>SURGE PROTECTION DEVICE</div></div>	
MISCELLANEOUS	
	<div><div><div>⊗</div></div><div>KEYED NOTE REFERENCE</div></div> <div><div><div>⊗</div></div><div>SCHEDULE DEFINED QUANTITIES</div></div>
GENERAL NOTES	
	<div><div>A.</div><div>PROVIDE CIRCUITS SIZED AT 2#12, 1#12G, IN 3/4" CONDUIT UNLESS OTHERWISE NOTED.</div></div> <div><div>B.</div><div>UNLESS OTHERWISE NOTED, ALL CONDUCTORS ARE SIZED FOR TYPE THWN, THHN, RATED FOR 75°C (MINIMUM).</div></div> <div><div>C.</div><div>CIRCUITS ARE SIZED ASSUMING NO MORE THAN THREE CURRENT CARRYING CONDUCTORS IN A SINGLE CONDUIT. FOR CONDUITS CONTAINING MORE THAN THREE, PROVIDE APPROPRIATE DERATING OF CONDUCTORS PER NEC.</div></div> <div><div>D.</div><div>COORDINATE ADDITIONAL REQUIREMENTS WITH THE CITY OF JAL REQUIREMENTS.</div></div> <div><div>E.</div><div>MEET REQUIREMENTS OF THE LATEST EDITION OF NEW MEXICO DEPARTMENT OF HEALTH AND HUMAN SERVICES.</div></div> <div><div>F.</div><div>MEET REQUIREMENTS OF THE LATEST EDITIONS OF NESC AND NFPA 70.</div></div> <div><div>G.</div><div>MEET THE REQUIREMENTS OF IECC INTERNATIONAL ENERGY CONSERVATION CODE 2012.</div></div> <div><div>H.</div><div>REFER TO CIVIL DRAWINGS FOR ADDITIONAL REQUIREMENTS.</div></div>

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10/3/2019

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SHEET CONTENTS:

SYMBOLS ABBREVIATIONS
AND GENERAL NOTES

SHEET NUMBER:

E-001

XXX

GENERAL PROVISIONS

- A. GENERAL
1. REQUIREMENTS SPECIFIED ON COVER SHEET, ALONG WITH ELECTRICAL SPECIFICATIONS AND ALL ITS SECTIONS, COMPRISE THE CONTRACT DOCUMENTS FOR THE ELECTRICAL CONTRACT. DRAWINGS AND ALL THEIR REVISIONS UP TO THE BID SUBMITTAL DATE BECOME A BINDING PART OF THE CONTRACT, ALONG WITH THESE SPECIFICATIONS AS THOUGH THEY WERE ONE, AND ANYTHING IMPLIED BY THE SPECIFICATIONS SHALL BE INTERPRETED AS ALSO IMPLIED BY THE DRAWINGS AND VICE VERSA. PROVIDE NECESSARY ITEMS FOR A COMPLETE INSTALLATION OF ALL ELECTRICALLY OPERATED EQUIPMENT LISTED IN THE SPECIFICATIONS OR SHOWN ON THE CONTRACT DRAWINGS.
2. THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND EQUIPMENT DRAWINGS AND SPECIFICATIONS ARE INCORPORATED INTO, AND BECOME A PART OF THIS DIVISION. THIS CONTRACTOR SHALL EXAMINE ALL SUCH DRAWINGS AND SPECIFICATIONS AND BECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS CONTAINED THEREIN. THE SUBMISSION OF HIS BID SHALL INDICATE SUCH KNOWLEDGE.
3. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC. THEY ARE INTENDED TO SHOW THE APPROXIMATE LOCATIONS OF EQUIPMENT AND CONDUIT. DIMENSIONS GIVEN ON THE PLANS, IN FIGURES, SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS AND SHALL BE VERIFIED IN THE FIELD. THE ELECTRICAL CONTRACTOR SHALL LAYOUT ALL EQUIPMENT ROOMS TO MAKE SURE THE EQUIPMENT, AS PURCHASED, FITS IN THE ROOM OR SPACE SHOWN. EXACT LOCATION OF ALL EQUIPMENT SHALL BE VERIFIED IN THE FIELD AND ROUTING OF CONDUITS SHALL SUIT FIELD CONDITIONS.
4. UNTIL THE TIME OF INSTALLATION, THE ARCHITECT RESERVES THE RIGHT TO MAKE MINOR CHANGES IN THE LOCATION OF CONDUIT AND EQUIPMENT WITHOUT ADDITIONAL COST TO THE CONTRACT.
5. THE ELECTRICAL DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER. MATERIAL AND LABOR NECESSARY TO THE PROJECT SHALL BE FURNISHED AND INSTALLED EXCEPT SPECIFICALLY MENTIONED IN BOTH. LABOR AND/OR MATERIALS NEITHER SHOWN NOR SPECIFIED, BUT OBVIOUSLY NECESSARY FOR THE COMPLETION AND PROPER FUNCTIONING OF THE SYSTEM, SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AT NO ADDITIONAL COST.
6. ARRANGE ALL EQUIPMENT SUBSTANTIALLY AS SHOWN ON THE DRAWINGS. MAKE DEVIATIONS ONLY WHERE NECESSARY TO AVOID INTERFERENCE. CHECK ALL EQUIPMENT SIZES AGAINST AVAILABLE SPACE PRIOR TO SHIPMENT TO AVOID INTERFERENCE.
7. EXAMINE THE WORK OF OTHER TRADES INsofar AS THEIR WORK COMES IN CONTACT WITH OR IS COVERED BY THIS WORK. IN NO CASE ATTACH TO, OR FINISH AGAINST ANY DEFECTIVE WORK OR INSTALL WORK IN A MANNER WHICH WILL PREVENT PROPER INSTALLATION OF THE WORK OF OTHER TRADES.
8. ELECTRICAL CONTRACTOR SHALL VERIFY WITH OTHER TRADES ALL ELECTRICAL CHARACTERISTICS OF EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. CONTRACTOR SHALL VERIFY VOLTAGE, PHASE AND HORSEPOWER AND SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO START OF WORK. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECTING MEANS AND OVERLOAD PROTECTION FOR ALL EQUIPMENT, UNLESS FURNISHED INTEGRAL WITH EQUIPMENT PACKAGE.
9. IT IS THE INTENDING OWNER'S POLICY THAT THERE BE A COMPLETE ELECTRICAL JOB. ANY ERRORS OR OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER PRIOR TO BIDDING THE JOB.
- B. VISIT TO THE SITE
1. THIS CONTRACTOR SHALL VISIT THE SITE OF THE WORK AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING HIS WORK. THE SUBMISSION OF HIS PROPOSAL SHALL INDICATE SUCH KNOWLEDGE. NO ADDITIONAL PAYMENT SHALL BE MADE ON CLAIMS THAT ARISE FROM A LACK OF KNOWLEDGE OF THE EXISTING CONDITIONS.
- C. CODE AND PERMITS
1. INSTALLATION SHALL BE IN FULL ACCORDANCE WITH ALL CODES, RULES AND REGULATIONS OF MUNICIPAL, CITY, COUNTY, STATE AND PUBLIC UTILITIES AND ALL OTHER AUTHORITIES HAVING JURISDICTION OVER THE PREMISES.
2. COMPLY WITH ANY SPECIFICATION REQUIREMENTS THAT ARE IN EXCESS BUT NOT IN CONFLICT WITH CODE REQUIREMENTS.
3. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, PLAN REVIEWS AND CERTIFICATES OF INSPECTION IN CONNECTION WITH HIS WORK, REQUIRED BY THE FOREGOING AUTHORITIES. BEFORE FINAL PAYMENT OF THE CONTRACT IS ALLOWED, ALL CERTIFICATES SHALL BE DELIVERED TO THE ARCHITECT IN DUPLICATE.
4. ELECTRICAL MATERIAL AND EQUIPMENT SHALL BEAR THE UL LABEL EXCEPT WHERE UL DOES NOT LABEL SUCH TYPES OF MATERIAL AND EQUIPMENT.
- D. SHOP DRAWINGS SUBMITTALS
1. THE ELECTRICAL CONTRACTOR SHALL SUBMIT ELECTRONIC SET OF SHOP DRAWINGS, THE SHOP DRAWINGS OF THE FOLLOWING EQUIPMENT USING THE INDICATED NUMBERING SYSTEM AND TITLES. SHALL BE SUBMITTED THROUGH THE ARCHITECT TO THE ENGINEER AND THEN RESUBMITTED FOR FINAL APPROVAL. IF NECESSARY, SHOP DRAWINGS SHALL BE SUBMITTED FOR THE FOLLOWING ITEMS:
- a. WIRING DEVICES
- b. PANELBOARDS AND SAFETY SWITCHES INCLUDING FAULT CURRENT STUDY BASED ON EQUIPMENT BEING SUPPLIED.
- c. CONTACTORS, TIME SWITCHES AND PHOTOCCELL
- d. LIGHTING FIXTURES
- e. SUPERVISORY ALARM SYSTEM
2. ALL SUBMITTED SHOP DRAWINGS (MANUFACTURERS' EQUIPMENT DESCRIPTIVE SHEETS OR VENDORS' PREPARED DRAWINGS) SHALL HAVE THE GENERAL CONTRACTOR'S OR SUBCONTRACTOR'S "STAMP OF APPROVAL" INDICATING THAT THE ITEM SUBMITTED IS AS CALLED FOR ON THE PLANS AND SPECIFICATIONS, IS APPROVED BY THE GENERAL CONTRACTOR OR SUBCONTRACTOR, THE DATE OF APPROVAL AND INITIALED BY THE PERSON APPROVING THE SUBMITTAL AND THE NAME OF THE COMPANY SUBMITTING SAID EQUIPMENT.
3. SUBMIT BOUND BROCHURES COMPLETE WITH A TABLE OF CONTENTS, LOOSE OR STAPLED TOGETHER SHEETS ARE NOT ACCEPTABLE. ANY SUBMITTALS NOT IN BROCHURE FORM OR NOT AS SPECIFIED SHALL BE RETURNED AT THE CONTRACTOR'S EXPENSE FOR RESUBMITTAL.
4. EVERY EFFORT SHALL BE MADE, IN CHECKING THE SHOP DRAWINGS, TO DETECT AND CORRECT ALL ERRORS, OMISSIONS AND INADEQUACIES. FAILURE TO DO THIS WILL NOT RELIEVE THE ELECTRICAL CONTRACTOR OF THE RESPONSIBILITY FOR THE PROPER AND COMPLETE INSTALLATION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- E. RECORD DRAWINGS
1. SUBMIT TO THE ARCHITECT ONE SET OF REPRODUCIBLE (MYLARS) ELECTRICAL DRAWINGS SHOWING THE RECORD CONDITIONS.
- F. STANDARDS AND SUBSTITUTIONS
1. WHEREVER THE WORDS "APPROVED BY," "APPROVED EQUAL," "AS DIRECTED" OR SIMILAR PHRASES ARE USED IN THE FOLLOWING SPECIFICATIONS, THEY SHALL BE UNDERSTOOD TO REFER TO THE OWNER AS THE APPROVING AGENCY, THE NAME OR MAKE OF ANY EQUIPMENT OR MATERIALS NAMED IN THIS SPECIFICATION (WHETHER OR NOT THE WORDS "OR APPROVED EQUAL" ARE USED) SHALL BE KNOWN AS THE "STANDARD."
2. THESE SPECIFICATIONS ESTABLISH QUALITY STANDARD OF MATERIALS AND EQUIPMENT TO BE PROVIDED. SPECIFIC ITEMS ARE IDENTIFIED BY MANUFACTURER, TRADE NAME OR CATALOG DESIGNATION. THIS CONTRACTOR SHALL SUBMIT HIS BASE BID PRICE BASED UPON STANDARD SPECIFIED EQUIPMENT DESCRIBED HEREIN AND AS DETAILED ON DRAWINGS AND ASSOCIATED CONTRACT DOCUMENTS. THESE SPECIFICATIONS ARE NOT TO BE CONSIDERED PROPRIETARY THE CONTRACTOR MAY SUBMIT INFORMATION ON MATERIALS AND MANUFACTURERS (OTHER THAN THOSE LISTED) FOR REVIEW BY THE ARCHITECT AND ENGINEER NO LATER THAN TEN (10) DAYS BEFORE BIDS ARE SUBMITTED. IN ADDITION, SAMPLES OF PROPOSED EQUIPMENT MAY BE REQUIRED TO BE SUBMITTED TO THE ENGINEER FOR REVIEW NO LATER THAN TEN (10) DAYS BEFORE BIDS ARE SUBMITTED. MANUFACTURERS OF PRODUCTS ACCEPTED BY THE ARCHITECT AND ENGINEER WILL BE LISTED IN AN ADDENDUM TO THE SPECIFICATIONS AS AN ACCEPTABLE SUBSTITUTION EQUIPMENT ACCEPTED AS DETAILED BELOW AND SHALL BE SHOWN AS A SEPARATE ADD OR DEDUCT PRICE TO BE FACTORED INTO THE BASE BID PRICE BY THE ARCHITECT AND OWNER IF ACCEPTED.
3. SHOULD THE CONTRACTOR PROPOSE TO FURNISH MATERIALS AND EQUIPMENT OTHER THAN THOSE SPECIFIED OR APPROVED BY ADDENDUM, SUBMIT A WRITTEN REQUEST FOR SUBSTITUTIONS TO THE ARCHITECT AT THE BID OPENING. THE REQUEST SHALL BE AN ALTERNATE TO THE ORIGINAL BID; BE ACCOMPANIED WITH COMPLETE DESCRIPTIVE (MANUFACTURER, BRAND NAME, CATALOG NUMBER, ETC.) AND TECHNICAL DATA FOR ALL ITEMS. FAILURE BY THIS CONTRACTOR TO SUBMIT THE REQUISITE DOCUMENTATION DETAILED ABOVE SHALL BE UNDERSTOOD BY THE ARCHITECT AND ENGINEER TO INDICATE THAT SUBSTITUTE EQUIPMENT WILL NOT BE PRESENTED BY THE CONTRACTOR FOR CONSIDERATION. SUCH SUBSTITUTIONS WILL NOT BE CONSIDERED AFTER THE BID OPENING DATE AND DELAY OF PROJECT WILL NOT BE PERMITTED FOR FURTHER INSTALLATION AND EVALUATION AFTER THIS DATE.
4. WHERE SUCH SUBSTITUTIONS ALTER THE DESIGN OR SPACE REQUIREMENTS INDICATED ON THE DRAWINGS, INCLUDE ALL ITEMS OF COST FOR THE REVISED DESIGN AND CONSTRUCTION INCLUDING COST OF ALL ALLIED TRADES INVOLVED.

5. ACCEPTANCE OR REJECTION OF THE PROPOSED SUBSTITUTIONS SHALL BE SUBJECT TO APPROVAL OF THE ARCHITECT AND ENGINEER. IF REQUESTED, THE CONTRACTOR SHALL SUBMIT (AT HIS COST) INSPECTION SAMPLES OF BOTH THE SPECIFIED AND PROPOSED SUBSTITUTIONS TO THE ARCHITECT AND ENGINEER.
6. IN ALL CASES WHERE SUBSTITUTIONS ARE PERMITTED, THE CONTRACTOR SHALL BEAR ANY EXTRA COST OF EVALUATING THE QUALITY OF THE MATERIAL AND EQUIPMENT TO BE PROVIDED, INCLUDING ALL ARCH/ENGINEER FEES ASSOCIATED WITH CHANGE.
- A. TESTING AND PLACING IN SERVICE
1. ANY MATERIAL, OR EQUIPMENT FAILING A TEST SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
2. TESTS SHALL INCLUDE THE FOLLOWING:
- a. MEASURE THE LOAD ON EACH PHASE OF THE MAIN SERVICE AND EACH PHASE OF EVERY FEEDER UNDER FULL LOAD CONDITIONS.
- b. MEASURE THE NO-LOAD AND FULL-LOAD VOLTAGES (PHASE TO PHASE, PHASE TO NEUTRAL AND PHASE TO GROUND FOR EACH PHASE OF EACH SERVICE, OF EACH SEPARATELY DERIVED SYSTEM, AND AT EACH PANELBOARD OR TRANSFORMER).
- c. MEASURE THE GROUND RESISTANCE OF THE MAIN SERVICE GROUNDING ELECTRODE AND THE GROUND RESISTANCE OF EACH SEPARATELY DERIVED SYSTEM'S GROUNDING ELECTRODE.
- d. MAKE INSULATION RESISTANCE TESTS ON ALL DRY TYPE TRANSFORMERS AND MOTORS.
- H. INTERFERENCES
1. BEFORE THE INSTALLATION OF ANY ITEM BEGINS, THE ELECTRICAL CONTRACTOR SHALL CAREFULLY ASCERTAIN THAT IT DOES NOT INTERFERE WITH CLEARANCES FOR THE ERECTION OF FINISH BEAMS, COLUMNS, PILASTERS, WALLS OR OTHER STRUCTURAL OR ARCHITECTURAL MEMBERS AS SHOWN ON THE ARCHITECTURAL DRAWINGS. IF ANY WORK IS INSTALLED AND THE ARCHITECTURAL DESIGN CANNOT BE FOLLOWED, THIS CONTRACTOR SHALL, AT HIS OWN EXPENSE, MAKE CHANGES IN HIS WORK AS DIRECTED BY THE ARCHITECT TO PERMIT THE COMPLETION OF THE ARCHITECTURAL WORK IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.
2. IT SHALL BE THE DUTY OF THIS CONTRACTOR TO REPORT ANY INTERFERENCES BETWEEN HIS WORK AND THAT OF ANY OF THE OTHER CONTRACTORS AS SOON AS THEY ARE DISCOVERED. THE ARCHITECT SHALL DETERMINE WHICH EQUIPMENT WILL BE RELOCATED, REGARDLESS OF WHICH WAS INSTALLED FIRST. HIS DECISION WILL BE FINAL.
- I. QUALITY ASSURANCE
- ALL PRODUCTS SHALL BE NEW AND OF THE TYPE AND QUALITY SPECIFIED, WHERE MATERIALS, EQUIPMENT, APPARATUS OR OTHER PRODUCTS ARE SPECIFIED BY MANUFACTURER, BRAND NAME, TYPE OF CATALOG NUMBER, SUCH DESIGNATION SHALL ESTABLISH THE STANDARDS OF THE DESIRED QUALITY AND STYLE. IT IS THE INTENT OF THESE SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY OF MATERIALS AND EQUIPMENT INSTALLED.
- BASIC ELECTRICAL MATERIALS AND METHODS
- A. NAMEPLATES
1. GENERAL: FURNISH AND MOUNT ON EACH PANELBOARD, SWITCHBOARD (INCLUDING BRANCH SWITCHES), LARGE JUNCTION BOX, SAFETY SWITCH, STARTER, REMOTE CONTROL, PUSH BUTTON STATION, AND ALL SIMILAR CONTROLS, A NAMEPLATE DESCRIPTIVE OF THE EQUIPMENT OR EQUIPMENT CONTROLLED.
2. PROVIDE BLACK AND WHITE NAMEPLATES CONSTRUCTED FROM LAMINATED PHENOLIC WITH A WHITE CENTER CORE. LETTERS SHALL BE ENGRAVED IN THE PHENOLIC TO FORM WHITE LETTERS 3/8" HIGH. FASTEN THE NAMEPLATES WITH SCREWS AND AN ADHESIVE TYPE FASTENER.
- B. MOUNTING ACCESSORIES
1. THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL ANGLE IRON, CHANNEL IRON, RODS, SUPPORTS, HANGERS, CONCRETE OR PLYWOOD REQUIRED TO INSTALL, MOUNT AND SUPPORT ANY ELECTRICAL EQUIPMENT OR DEVICE CALLED FOR ON THE PLANS.
2. SUPPORTING MATERIAL SHALL BE COMPLETE WITH HANGERS, CONNECTORS, BOLTS, WASHERS AND NUTS AS REQUIRED TO PROPERLY SUPPORT THE EQUIPMENT.
3. SUPPORTING MATERIAL SHALL BE GALVANIZED, PAINTED OR OTHERWISE SUITABLY FINISHED. PRODUCTS BY BRINKLEY, STEEL CITY OR RACO WILL BE ACCEPTABLE.
3. ALL SURFACE-MOUNTED EQUIPMENT ON BLOCK WALLS SHALL BE MOUNTED ON 3/4" PLYWOOD BACKBOARD. ALL FLOOR-MOUNTED EQUIPMENT SHALL BE INSTALLED ON A 4" HIGH CONCRETE HOUSEKEEPING PAD.
- C. EXECUTION
1. THE ELECTRICAL WORK FOR CONSTRUCTION PROPOSED SHALL CONFORM TO ALL FEDERAL, (OSHA), STATE, ALL SPECIFIC SAFETY REQUIREMENTS AND THE REQUIREMENTS OF THE CURRENT EDITION OF THE NEC.
2. CHECK THE HVAC AND PLUMBING SPECIFICATIONS FOR ELECTRICAL REQUIREMENTS AND INCLUDE THE SAME IN THE CONTRACT COST.
3. EQUIPMENT CONNECTIONS, STARTERS, DISCONNECT SWITCHES, CONTROL TRANSFORMERS AND PUSHBUTON STATIONS FOR THE EQUIPMENT FURNISHED BY THE OWNER OR UNDER A SEPARATE CONTRACT SHALL BE INSTALLED AND CONNECTED UNDER THIS DIVISION, AS INDICATED ON THE CONTRACT DRAWINGS.
4. ALL CUTTING, PATCHING, EXCAVATING, BACKFILLING AND CONCRETE WORK RELATED TO THIS CONTRACT WILL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. THIS CONTRACTOR SHALL ASSUME THE RESPONSIBILITY OF PROVIDING THE SLEEVES, HOLES AND OPENINGS NECESSARY FOR THE ELECTRICAL INSTALLATION AND FOR THEIR REPAIR IN AN ACCEPTABLE MANNER, AS DETERMINED BY THE ARCHITECT. ALL HOLES SHALL BE CORE-DRILLED. PROVIDE FIRE STOP IN ALL OPENINGS CREATED THROUGH FIRE-RATED WALLS, FLOORS OR CEILINGS.
5. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED ACCESS PANELS NECESSARY FOR HIS WORK, COORDINATE WITH ARCHITECT PRIOR TO INSTALLATION.
- D. MATERIALS AND WORKMANSHIP
1. ALL WORK SHALL BE INSTALLED IN A PRACTICAL AND WORKMANLIKE MANNER, BY MECHANICS SKILLED IN THE SEVERAL TRADES NECESSARY.
2. ALL MATERIALS SHALL BE NEW AND FREE FROM DEFECTS AND SHALL BE THE BEST OF THEIR SEVERAL KINDS UNLESS SPECIFIED OR INDICATED ON THE DRAWINGS TO THE CONTRARY.
3. DURING EACH PHASE AND AT THE COMPLETION OF THE CONSTRUCTION, THIS CONTRACTOR SHALL REMOVE ALL DEBRIS AND EXCESS MATERIALS CAUSED BY HIS WORK. HE SHALL LEAVE THE AREA OF OPERATION BROOM CLEAN.
4. ALL ELECTRICAL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OR ETL LABEL.
5. THIS CONTRACTOR SHALL GUARANTEE HIS WORKMANSHIP AND MATERIAL (LAMPS EXCEPTED) FOR ONE YEAR FROM THE DATE OF BUILDING OPENING AND LEAVE HIS WORK IN PERFECT ORDER AT THE COMPLETION. SHOULD DEFECTS DEVELOP WITHIN THE GUARANTEE PERIOD, THE CONTRACTOR SHALL, UPON NOTICE OF THE SAME, REMEDY THE DEFECTS AND HAVE ALL DAMAGES TO OTHER WORK OR FURNISHINGS CAUSED BY THE REPAIRS CORRECTED AT HIS EXPENSE TO THE CONDITION BEFORE SUCH DAMAGE.
- E. SCOPE OF WORK
1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, STORAGE, UNPACKING AND PLACEMENT; TO INCLUDE BUT NOT BE LIMITED TO, THE FOLLOWING ITEMS:
- a. EMERGENCY LIGHTING AND POWER.
- b. COMPLETE POWER AND LIGHTING DISTRIBUTION SYSTEM INCLUDING ALL PANELS AND FEEDERS.
- c. COMPLETE BRANCH CIRCUIT WIRING SYSTEM.
- d. COMPLETE POWER WIRING FOR ALL AIR CONDITIONING EQUIPMENT, PLUMBING SYSTEM, HEATING EQUIPMENT, VENTILATING AND EXHAUST EQUIPMENT.
- e. COMPLETE LIGHTING FIXTURE INSTALLATION.
- f. COMPLETE TELEPHONE AND COMMUNICATION CONDUIT SYSTEM INCLUDING BOXES, PLATES, JACKS, ETC., AS SPECIFIED, SHOWN ON THE DRAWINGS AND REQUIRED BY THE LOCAL TELEPHONE COMPANY AND/OR OWNER.
- g. TEMPORARY ELECTRICAL POWER AND LIGHTING AS REQUIRED FOR CONSTRUCTION.
- h. TESTING OF ALL CABLES AND CIRCUIT WIRING AFTER INSTALLATION.
- i. EXIT LIGHT SYSTEM.
- j. WIRING DEVICES AND FLOOR BOXES.
- k. LIGHTING CONTROL SYSTEM.
- l. GROUNDING OF THE ELECTRICAL SYSTEM.
- m. OUTDOOR LIGHTING AND CONTROLS.
- n. SUPERVISORY ALARM SYSTEM.
- o. TELEPHONE AND ELECTRIC SERVICES.
- p. UNDERGROUND WARNING TAPE: PERMANENT, BRIGHT-COLORED, CONTINUOUS-PRINTED, VINYL TAPE NOT LESS THAN 6 INCHES WIDE BY 4 MILS THICK WITH EMBEDDED CONTINUOUS METALLIC STRIP OR CORE AND PRINTED LEGEND THAT INDICATES TYPE OF UNDERGROUND LINE.
- q. IDENTIFY RACEWAYS AND CABLES WITH COLOR BANDING AS FOLLOWS:
2. COLORS:
- a.) FIRE ALARM SYSTEM: RED
3. b.) SECURITY SYSTEM: BLUE AND YELLOW.

- G. ELECTRIC SERVICE
6. PROVIDE TRENCHING AND BACKFILL.
7. PROVIDE CONDUIT FOR PRIMARY SERVICE WHERE REQUIRED.
8. CONCRETE ENCASE CONDUITS WHERE INDICATED ON THE PLANS.
9. PROVIDE METERING AT THE SERVICE TRANSFORMER.
10. MAKE PROVISIONS FOR THE PAD-MOUNT TRANSFORMER INCLUDING THE TRANSFORMER PAD AND GROUNDING.
11. PAY THE COST OF ALL POWER COMPANY CHARGES CONNECTED WITH PERMANENT ELECTRIC SERVICE TO THE BUILDING.
12. COORDINATE ALL WORK WITH THE POWER COMPANY AND PERFORM ANY WORK NECESSARY TO ASSURE A COMPLETE, WORKING INSTALLATION.
- RACEWAYS AND BOXES
- A. RACEWAYS
1. ALL WIRE SHALL BE RUN IN ACCORDANCE WITH CODE IN CORROSION RESISTANT, RIGID, THREADED, METAL CONDUIT OR ELECTRICAL METALLIC TUBING (E.M.T.) UNLESS OTHERWISE SPECIFICALLY STATED HEREIN.
- a. CONDUIT IN EXTERIOR WALLS, BELOW FLOOR SLAB, OR UNDERGROUND SHALL BE RIGID, THREADED, GALVANIZED, HEAVY WALL TYPE.
- b. CARLON PVC TYPE 40 HEAVY WALL CONDUIT WITH GROUND WIRE MAY BE USED BELOW FLOOR SLAB OR UNDERGROUND IN LIEU OF RIGID, THREADED, GALVANIZED CONDUIT. PVC 40 CONDUIT SHALL NOT BE RUN IN OR ABOVE FLOOR SLAB. PVC CONDUIT SHALL TERMINATE BELOW FLOOR SLAB WITH RIGID, THREADED METAL CONDUIT ADAPTER. CONDUIT ABOVE SLAB SHALL BE METAL.
- c. CONDUIT RUN EXPOSED TO THE WEATHER SHALL BE HEAVY WALL, METAL THREADED TYPE.
- d. PROVIDE BRANCH CIRCUIT CONDUCTORS THAT ARE TYPE THHN OR THWN AS REQUIRED. MC CABLE CAN BE USED FOR LIGHT FIXTURE TO LIGHT FIXTURE.
2. CONDUIT SIZE SHALL BE 3/4" MINIMUM.
3. CONDUIT SHALL BE SECURELY FASTENED IN PLACE.
4. ALL CONDUIT SHALL BE CONCEALED IN WALLS, FLOOR AND CEILINGS WHEREVER POSSIBLE. EXPOSED CONDUIT IN FINISHED AREAS WILL NOT BE ACCEPTED. EXPOSED CONDUIT WILL BE PERMITTED IN UNFINISHED AREAS WITH THE SPECIFIC APPROVAL OF THE ARCHITECT.
5. USE FLEXIBLE CONDUIT FOR THE CONNECTION TO RECESSED OR SEMI-RECESSED LIGHTING FIXTURES (6' LENGTH MAXIMUM). USE LIQUID TIGHT METAL CONDUIT FOR ALL CONNECTIONS TO MOTORS AND OTHER EQUIPMENT SUBJECT TO VIBRATION AND IN AREAS SUBJECT TO MOISTURE.
6. USE WATERTIGHT JOINTS WITH BURIED AND CONCRETE ENCASED CONDUIT. ALL BURIED CONDUITS OUTSIDE OF BUILDINGS SHALL HAVE A MINIMUM OF 24" OF COVER. METAL CONDUITS BURIED IN EARTH SHALL BE PAINTED (TWO COATS) WITH HEAVY ASPHALTUM PAINT.
7. SUPPORT RUNS OF CONDUIT AS DETAILED IN THE APPROPRIATE TABLE OF THE NATIONAL ELECTRICAL CODE (NEC).
8. INSTALL EXPOSED RUNS OF CONDUIT AND CONDUIT ABOVE LAY-IN CEILINGS PARALLEL OR PERPENDICULAR TO THE WALLS, STRUCTURAL MEMBERS OF INTERSECTIONS OF VERTICAL PLANES AND CEILINGS. PROVIDE RIGHT ANGLE TURNS USING FITTINGS OR SYMMETRICAL BENDS. SUPPORT CONDUITS WITHIN 1' OF ALL CHANGES IN DIRECTION.
9. IF A CONDUIT IS SUSPENDED, IT SHALL BE SUPPORTED ON TRAPEZE HANGERS WHICH USE "ALL-THREAD" RODS FROM THE STRUCTURAL STEEL. THE USE OF CEILING SUPPORT WIRE OR SIMILAR MATERIAL WILL NOT BE ACCEPTED.
10. INSTALL EMPTY CONDUIT FOR FUTURE USE AS INDICATED ON THE DRAWINGS. CONDUIT SHALL BE COMPLETE WITH JETLINE OR PUL ROPE, JUNCTION/OUTLET BOXES, TILE RINGS AND APPROPRIATE COVER PLATES.
11. PROVIDE PITCHPOCKETS WHERE CONDUITS PENETRATE THE ROOF.
12. THREADED LUBRICATED SEALANT IS REQUIRED ON OUTDOOR AND UNDERGROUND THREADED METAL JOINTS.
13. INSTALL FIRE SEAL FITTINGS WHERE CONDUITS PENETRATE CONCRETE FLOOR SLABS OR MASONRY WALLS REQUIRED TO BE FIRE RATED.
14. HORIZONTAL PORTION OF CONDUIT EXPOSED ON THE ROOF AND FEEDING EQUIPMENT SHALL NOT BE MORE THAN 5'-0" UNLESS THE WRITTEN APPROVAL FROM ARCHITECT OR ENGINEER IS OBTAINED.
- B. PULL AND JUNCTION BOXES
1. INSTALL PULL AND JUNCTION BOXES WHERE SHOWN ON THE DRAWINGS, AND WHERE REQUIRED FOR CHANGES IN DIRECTION, AT JUNCTION POINTS, AND TO FACILITATE WIRE PULLING. FURNISH BOX SIZES IN ACCORDANCE WITH NEC UNLESS LARGER BOXES ARE INDICATED.
2. PROVIDE STEEL BOXES AND REMOVABLE COVERS OF CODE GAGE, HOT ROLLED SHEET STEEL GALVANIZED INSIDE AND OUTSIDE AND FINISHED TO MATCH EXTERIOR WORK. FURNISH WEATHERPROOF BOXES WHEN INSTALLED ABOVE GROUND OUTSIDE.
3. PROVIDE CAST IRON BOXES, HOT DIPPED GALVANIZED INSIDE AND OUTSIDE WHERE SHOWN ON THE DRAWINGS. FURNISH REMOVABLE COVERS WITH GASKETS AND STAINLESS STEEL, BRASS OR BRONZE SCREWS.
4. PROVIDE CONDUIT BOXES FOR UNDERGROUND WORK UNLESS OTHERWISE INDICATED ON THE DRAWINGS. FURNISH STEEL FRAMES AND COVERS WITH THE COVER ATTACHED TO THE FRAME WITH HEXAGON HEAD, BRASS OR BRONZE CAP SCREWS, 3/8" DIAMETER. PROVIDE A RUBBER GASKET FOR SEALING BETWEEN THE COVER AND THE FRAME. PAINT THE COVER WITH TWO COATS OF HEAVY ASPHALTUM.
- C. OUTLET BOXES
1. USE SHEET STEEL BOXES, ZINC COATED OR CADMIUM PLATED, FOR CONCEALED INTERIOR WORK.
2. USE CAST BOXES, ZINC-CADMIUM FINISH MALLEABLE IRON, FOR EXPOSED INTERIOR WORK, AND FOR EXPOSED OR CONCEALED WORK IN WET, DAMP OR EXTERIOR LOCATIONS. CAST BOXES SHALL BE SERIES FD BY CROUSE HINDS OR APPLETON.
3. WALL BOX SIZES (MINIMUM) SHALL BE 4" SQUARE x 2-1/2" DEEP WHERE WALL CONSTRUCTION PERMITS. WHERE WALL CONSTRUCTION DICTATES, THE WIDTH MAY BE REDUCED TO 2-1/8" OR 1-1/2" UNDER SPECIAL CONDITIONS.
4. FIXTURE OUTLETS IN CEILINGS (MINIMUM) SHALL BE 4" OCTAGONAL x 1-1/2" DEEP (4-11/16" OCTAGONAL x 2-1/2" DEEP WHERE REQUIRED TO ACCOMMODATE LARGER CONDUIT OR LARGER NUMBER OF WIRES).
5. GANG BOXES SHALL BE ONE PIECE (MINIMUM), 2-1/8" DEEP.
6. PROVIDE CAST IRON, CONCRETE-TIGHT FLOOR BOXES WITH ADJUSTABLE COVERS SET FLUSH AND LEVEL WITH THE FINISHED FLOOR, WITH OUTLETS AS INDICATED ON THE DRAWINGS. PROVIDE HUBBELL #B-2400, 4200, OR 4300 SERIES BOXES WITH LEVELING SCREWS. FLUSH TYPE COVERS AND OPENINGS TO SERVE OUTLETS USED, FURNISH FLUSH CAPS FOR CLOSING OFF BOX WHEN NOT IN USE.
7. FLUSH MOUNT BOXES IN ALL FINISHED WALLS. INSTALL THE PLASTER RINGS IN DRYWALLED PLASTERED WALLS AND RAISED COVERS AS REQUIRED IN WALLS WITH OTHER FINISHES SO THAT THE COVER PLATES FIT TIGHTLY AGAINST BOXES OR RINGS. 3/16" MAXIMUM GAPS ARE ALLOWED FOR NONCOMBUSTIBLE WALLS.
8. ADJUST LOCATION OF OUTLETS IN MASONRY OR TILE CONSTRUCTION TO OCCUR IN THE NEAREST JOINT TO THE HEIGHT SPECIFIED. HEIGHTS SHALL MEET A.D.A. REQUIREMENTS.
9. SUPPORT ALL BOXES TO MAINTAIN PROPER ALIGNMENT AND RIGIDITY.
10. CLEAN BOXES OF ALL FOREIGN MATTER PRIOR TO THE INSTALLATION OR WIRING OF DEVICES.
11. MOUNTING HEIGHTS ON THE DRAWINGS ARE TO THE CENTERLINE OF THE BOX UNLESS OTHERWISE NOTED.
- FUSES
- A. THE CONTRACTOR SHALL FURNISH A COMPLETE SET OF FUSES FOR ALL SWITCHES, PLUS FUSIBLE EQUIPMENT FURNISHED BY OTHER TRADES. UNLESS OTHERWISE INDICATED OTHERWISE ON PLANS, THE FUSES SHALL BE OF THE FOLLOWING TYPES:
1. FUSES 601 TO 6000 AMPS SHALL BE UL CLASS. TRADE TYPE SHALL BE KRP-C AS MANUFACTURED BY THE BUSSMANN COMPANY.
2. FUSES 1/10 TO 600 AMPS SHALL BE UL CLASS RK1. TRADE TYPE SHALL BE LOW PEAK LPS-RK (600V) AND LPN-RK (250V) AS MANUFACTURED BY BUSSMANN COMPANY.
3. ALL OTHER FUSES SHALL BE DUAL-ELEMENT CURRENT-LIMITING TYPE WITH 200,000 AMPERES SYMMETRICAL INTERRUPTING CAPACITY.
4. FUSES SHALL BE MANUFACTURED BY BUSSMANN, GOULD-SHAUMUTT, OR RELIANCE.
5. SPARE FUSES AMOUNTING TO A DUPLICATE SET OF EACH SIZE INSTALLED SHALL BE TURNED OVER TO THE OWNER UPON COMPLETION OF THE PROJECT. PROVIDE AND PLACE IN A SPARE FUSE CABINET SIMILAR TO BUSSMANN 8 SFC.
- THE CONTRACTOR SHALL REPLACE ALL FUSES BLOWN DURING CONSTRUCTION.
- WIRE AND CABLE
- A. COLOR CODE CONDUCTORS (EXCEPT CONTROL AND INSTRUMENTATION CONDUCTORS) AS FOLLOWS: 480/208V SYSTEM-PHASE A BROWN; PHASE B ORANGE; PHASE C YELLOW; NEUTRAL GRAY; GROUND GREEN. 208/120V SYSTEM-PHASE A BLACK; PHASE B RED; PHASE C BLUE; NEUTRAL WHITE; GROUND GREEN.
1. #12 AND #10 CONDUCTORS SHALL HAVE CONTINUOUS INSULATION COLOR, AS LISTED ABOVE.
2. COLOR CODE CONDUCTORS LARGER THAN ABOVE, WHICH DO NOT HAVE CONTINUOUS INSULATION COLOR BY APPLICATION OF AT LEAST TWO LAPS OF COLORED TAPE ON EACH CONDUCTOR AT ALL POINTS OF ACCESS INCLUDING JUNCTION BOXES. COLOR TAPE SHALL BE THE EQUAL OF 3M PRODUCTS SCOTCH #35.

3. CONDUCTORS SHALL BE SOFT ANNEALED COPPER INSULATED FOR 600 VOLTS UNLESS SPECIFICALLY INDICATED OTHERWISE. ALUMINUM CONDUCTORS ARE NOT ALLOWED ON THIS PROJECT.
- A. INSULATED DUPLEX SHALL BE TYPE THW FOR WIRE SIZES #8 AWG AND LARGER AND THHN OR THWN FOR #10AWG AND SMALLER. THHN SHALL NOT BE USED IN WET OR DAMP LOCATIONS.
- C. FLEXIBLE CORD SHALL BE HEAVY DUTY TYPE SO WITH AN EQUIPMENT GROUND CONDUCTOR IN ADDITION TO THE CURRENT CARRYING CONDUCTORS.
- D. PROVIDE #12 CONDUCTORS, UNLESS OTHERWISE INDICATED.
1. CONTROL CONDUCTORS SHALL BE #14 MINIMUM FOR NEC CLASS I AND #16 FOR NEC CLASS II.
- E. CONDUCTORS #8 AWG AND LARGER SHALL BE STRANDED.
- F. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID.
- G. INSTALL WIRING IN CONDUIT.
- H. CONNECT #10 AND SMALLER WIRES WITH CONSTANT PRESSURE EXPANDABLE SPRING TYPE CONNECTORS, "SCOTCHLOK" BY 3M OR B-CAP BY BUCHANAN.
- I. CONNECT #8 AND LARGER WIRES WITH COMPRESSION CONNECTORS OR SPLICES AS MANUFACTURED BY BURNDY OR T&B.
- J. INSULATE SPLICING CONNECTORS TO AT LEAST 200% OF THE WIRE INSULATION. USE PRE-STRETCHED TUBING CONNECTOR INSULATORS, 3M PST FOR #2 AND LARGER CONDUCTORS.
- K. PULL CONDUCTORS USING RECOGNIZED METHODS AND EQUIPMENT LEAVING AT LEAST 8" WIRE AT ALL JUNCTION BOXES FOR CONNECTIONS.
1. CLEANOUT EACH CONDUIT SYSTEM BEFORE PULLING WIRE.
- L. FORM AND TIE ALL WIRING IN PANELBOARDS.
- M. THERE SHALL BE NO WIRENUT JOINTS OR SPLICES MADE INSIDE SWITCHBOARDS/PANELBOARDS.
- N. BRANCH CIRCUIT WIRE SIZES (AND CONDUITS) SHALL BE INCREASED FROM THOSE INDICATED ON THE PLANS TO PREVENT EXCESSIVE VOLTAGE DROP. BRANCH CIRCUITS SHALL BE INSTALLED WITH WIRES OF SUFFICIENT SIZE SO THAT VOLTAGE DROP BETWEEN THE PANEL AND THE LOADS DOES NOT EXCEED LIMIT OF 3%.
- O. WIRE SIZES SHALL BE BASED ON THE 60 DEGREES C. AMPACITIES FOR WIRE SIZES NO. 14-1 A.W.G., AND 75 DEGREES C. AMPACITIES FOR WIRE SIZES #10 A.W.G. AND LARGER.
- P. CIRCUITS MAY BE MULTI-PLEXED IN CONDUIT PROVIDED WIRE IS PROPERLY DERATED AND CONDUIT SIZED PER CODE. UNDER NO CIRCUMSTANCE SHALL MORE THAN (8) CURRENT CARRYING CONDUCTORS BE RUN IN A SINGLE CONDUIT.
- WIRING DEVICES
- A. WIRING DEVICE COLOR SHALL BE WHITE, UNLESS OTHERWISE INDICATED.
- B. PROVIDE TOTALLY ENCLOSED, 20 AMPERE, 120/277 VOLT, QUIET A/C GENERAL USE SNAP SWITCHES.
- C. SWITCHES SHALL BE SPECIFICATION GRADE AS MANUFACTURED BY HUBBELL, P&S, OR LEVITON.
- D. PROVIDE NEMA CONFIGURATION 5-20R DUPLEX 125 VOLT GROUNDING TYPE RECEPTACLES RATED FOR 20 AMPERES UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- E. RECEPTACLES SHALL BE SPECIFICATION GRADE AS MANUFACTURED BY HUBBELL, P&S OR LEVITON.
- F. RECEPTACLES REQUIRING AMPERAGES, VOLTAGES OR CONFIGURATIONS DIFFERENT FROM THE USUAL CONVENIENCE RECEPTACLES ABOVE SHALL BE AS INDICATED ON THE DRAWINGS.
- G. PROVIDE OTHER RECEPTACLES OF A QUALITY, MATERIAL AND WORKMANSHIP EQUAL TO THAT SPECIFIED FOR DUPLEX CONVENIENCE RECEPTACLES.
- H. PROVIDE COVER OR DEVICE PLATES FOR OUTLET BOXES AS FOLLOWS UNLESS OTHERWISE NOTED:
1. FINISHED AREAS: THERMOPLASTIC - COLOR TO MATCH DEVICE
2. UNFINISHED AREAS: ZINC COATED SHEET METAL, ALUMINUM, OR CAST METAL, AS APPROPRIATE FOR THE TYPE OF BOX.
3. EXTERIOR AREAS: COPPER FREE ALUMINUM WITH GRAY, POWDER EPOXY FINISH, GASKET, WEATHERPROOF, CROUSE-HINDS "WLRD" FOR DUPLEX RECEPTACLES AND WLRS FOR SINGLE RECEPTACLES OR EQUAL.
4. TELEPHONE, COMMUNICATION, AND SIGNAL OUTLET PLATES, SHALL MATCH THOSE USED FOR RECEPTACLES AND SWITCHES. ALL OUTLET AND/OR JUNCTION BOXES SHALL BE COMPLETE WITH A COVER PLATE BY THIS CONTRACTOR.
5. WHERE DEVICES ARE GANGED, THEY SHALL BE INSTALLED UNDER A COMMON COVERPLATE.
- I. LOCATE THE SWITCHES APPROXIMATELY 4'-0" ABOVE THE FINISHED FLOOR ELEVATION OR NEAREST BLOCK COURSE (WITHIN A.D.A. REQUIREMENTS), UNLESS OTHERWISE INDICATED. THE MINIMUM DIMENSION OF THE SWITCHES SHALL BE VERTICAL.
- J. LOCATE RECEPTACLES APPROXIMATELY 1'-0" ABOVE THE FINISHED FLOOR ELEVATION OR NEAREST BLOCK COURSE (WITHIN A.D.A. REQUIREMENTS), UNLESS NOTED OTHERWISE. THE LONG DIMENSION OF RECEPTACLES SHALL BE VERTICAL.
- SAFETY SWITCHES
- A. SAFETY SWITCHES SHALL BE THE ENCLOSED HEAVY-DUTY TYPE (TYPE HD) WITH QUICK-MAKE, QUICK-BREAK MECHANISM AND EXTERNAL PAD LOCKABLE OPERATING HANDLE.
- B. SAFETY SWITCHES SHALL BE RATED FOR 240 OR 600 VOLTS AS APPLICABLE. THEY SHALL BE HORSEPOWER RATED WHEN USED IN MOTOR CIRCUITS.
- C. SAFETY SWITCHES SHALL BE FUSIBLE OR NON-FUSIBLE, 2, 3, OR 4 POLE AS INDICATED ON THE DRAWINGS.
- D. SAFETY SWITCHES SHALL BE SINGLE THROW UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- E. ENCLOSURES SHALL BE NEMA 1 INDOORS AND NEMA 3R OUTDOORS UNLESS OTHERWISE INDICATED ON DRAWINGS.
- F. MANUFACTURER SHALL BE SQUARE D, SIEMENS, OR CUTLER-HAMMER. ALL SAFETY SWITCHES SHALL BE MANUFACTURED BY THE ABOVE.
- G. MOUNT THE SAFETY SWITCHES SECURELY BETWEEN 3' & 6' LEVELS ABOVE THE FLOOR UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- H. SWITCHES ON BLOCK WALLS SHALL BE MOUNTED ON A 3/4" PLYWOOD BACKBOARD, WHERE LOCATED INDOORS.
- GROUNDING AND BONDING
- A. GROUND ALL EQUIPMENT PER N.E.C.
- B. GROUND EACH OUTSIDE LIGHTING POLE SEPARATELY. REFER TO DRAWINGS ESI.
- C. ALL CONDUITS SHALL CONTAIN A CODE-SIZED GROUND WIRE SIZED PER N.E.C. IN ADDITION TO THE CONDUCTORS SHOWN ON THE PLANS. WHERE CIRCUIT CONDUCTORS ARE INCREASED IN SIZE FOR VOLTAGE DROP, THE GROUND WIRE SIZE SHALL BE INCREASED PROPORTIONATELY.
- D. WHERE AN ISOLATED, INSULATED GROUND IS REQUIRED A SEPARATE ISOLATED GREEN GROUND IN ADDITION TO THE EQUIPMENT GROUND WIRE SHALL BE RUN FROM THE PANEL ISOLATED GROUND BUS TO THE ISOLATED GROUND CONNECTION OF THE DEVICE SERVED. IN NO CASE SHALL THE SYSTEM GROUND (GREEN WIRE AND ASSOCIATED OUTLET BOXES, CONDUIT AND BUILDING STEEL) BE ALLOWED TO CONTACT THE ISOLATED GROUND (GREEN WIRE WITH WHITE STRIPE).
- E. AFTER INSTALLING GROUNDING SYSTEM BUT BEFORE PERMANENT ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, TEST FOR COMPLIANCE WITH REQUIREMENTS.
- OVERHEAD ELECTRICAL DISTRIBUTION
- A. PROVIDE ALUMINUM CONDUCTOR STEEL REINFORCED (ACSR) ASTM B232/B232M, ALUMINUM.
- B. PROVIDE PRESSURE TREATED WOOD FOR POLES AND CROSS ARMS.
- C. PROVIDE TREATMENT OF SOIL AROUND POLE BASE WITH TERMITICIDE.
- D. PROVIDE POLE OF LENGTH 20 FEET AND SETTING IN SOIL AT 5 FT.
- E. PROVIDE SAG AND TENSION TIE.
- F. PROVIDE 3/4" X 10FT GROUND ROD AT EACH POLE BASE OR BUTT WRAP GROUND.
- DISTRIBUTION AND PANELBOARDS
- A. PANELBOARDS
1. MAIN DISTRIBUTION PANEL SHALL BE FULLY RATED TO INTERRUPT SYMMETRICAL SHORT CIRCUIT AT THE TERMINALS.
2. PANELBOARDS SHALL BE LABELED WITH PHENOLIC NAMEPLATES INSCRIBED AS INDICATED ON THE DRAWINGS. PROVIDE LABELS AFFIXED TO PANELBOARDS AS REQUIRED BY NFPA 70E.
3. PANELBOARDS SHALL BE TYPE ENCLOSED DEAD FRONT SAFETY TYPE WITH FEATURES AND RATINGS AS SCHEDULED ON THE DRAWINGS.
4. PANELS KNOWN AS "LOAD CENTERS" ARE UNACCEPTABLE.
5. MOLDED CASE CIRCUIT BREAKERS SHALL BE AS SCHEDULED ON THE DRAWINGS AND SPECIFIED IN THIS DIVISION.
6. ALL BUS BARS SHALL BE RECTANGULAR TIN PLATED ALUMINUM.
7. SPACE, WHERE REQUIRED, BETWEEN PANELS, DISCONNECTS, TERMINALS, AND PROTECTIVE DEVICES AND SHALL INCLUDE BUS AND SUPPORT.
8. INSTALL CABINETS SO THAT CENTER OF THE TOP BREAKER DOES NOT EXCEED 6'-6" ABOVE THE FINISHED FLOOR.
9. ENTRIES ON DIRECTORY CARDS SHALL BE TYPED, COMPLETE AND ACCURATE.
10. ALL BOLTED CONNECTIONS SHALL BE TORQUED IN ACCORDANCE WITH MANUFACTURER'S STANDARDS.

11. ELECTRICAL CONTRACTOR SHALL ARRANGE CIRCUITS AS NEAR AS POSSIBLE TO CIRCUIT NUMBERS ON THE DRAWINGS. AT COMPLETION OF JOB, ELECTRICAL CONTRACTOR SHALL TAKE CURRENT READING CHECKS OF RESPECTIVE PHASES. A MINIMUM OF CIRCUIT CONNECTIONS SHALL BE REARRANGED TO BALANCE, AS CLOSELY AS POSSIBLE, THE LOAD IN THE PANEL.
12. ALL BREAKERS SHALL BE BOLT-ON TYPE.
13. PROVIDE (3) SPARE 1" CONDUITS INTO ACCESSIBLE CEILING SPACE WHERE PANELS ARE FLUSH-MOUNTED. PROVIDE REMOVABLE CAP OR PLUG AT CONDUIT AND ABOVE CEILING.
- LIGHTING FIXTURES
- A. ALL LIGHTING FIXTURES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR AS INDICATED ON THE LIGHTING FIXTURE SCHEDULE, INCLUDING LED AND DRIVER.
- B. ALL FIXTURES SHALL BEAR THE UNDERWRITER'S LABORATORIES LABEL AND SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
- C. THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY SUPPORT MEDIA FOR ALL LIGHTING FIXTURES INCLUDING STRUCTURAL STEEL, ANGLE, RODS, ETC. IN GENERAL, FIXTURES SHALL BE SUPPORTED IN A MANNER ACCEPTABLE TO THE LOCAL INSPECTION AUTHORITIES. ALL FIXTURES SHALL BE FIRMLY SUPPORTED FROM BEAMS OR JOISTS.
1. PROVIDE ALL NECESSARY BACKING, BLOCKING AND SUPPORTS FOR WALL MOUNTED FIXTURES.
2. FIXTURES SHALL NOT BE SUPPORTED FROM ROOF DECK.
3. ALL FIXTURES SHALL BE LISTED AND APPROVED FOR THE PURPOSE INTENDED.
- H. IF REQUIRED BY CODE, LIGHT FIXTURES SHALL BE CHICAGO PLENUM RATED.
- I. RECESSED FIXTURES IN FIRE RATED CEILING OR SUPPLY AIR PLENUMS SHALL BE APPROVED FOR THE FIRE RATING OF THE CEILING. PROVIDE AIR-TIGHT GASKETS TO SEAL AROUND OPENINGS.
- J. ALL ADJUSTABLE FIXTURES SHALL BE AIMED AND ADJUSTED DURING EVENING HOURS TO THE SATISFACTION OF THE ARCHITECT.
- MISCELLANEOUS SYSTEMS
- A. TELEPHONE SYSTEM
1. ELECTRICAL CONTRACTOR TO PROVIDE TELEPHONE SERVICE CONDUIT OR DUCT TO TELEPHONE BOARD AS SHOWN ON PLANS. SERVICE CONDUIT SIZE AND QUANTITY SHALL BE AS DETERMINED BY LOCAL TELEPHONE COMPANY.
2. THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONDUITS WITH PULL WIRES, OUTLET BOXES, METAL CABINETS AND PULL BOXES. PROVIDE A COMPLETE CONDUIT SYSTEM WITH PULL WIRE AS INDICATED ON DRAWINGS.
3. ALL PLATES SHALL BE STANDARD TELEPHONE TYPE WITH JACK. PROVIDE PLATES OF SAME MATERIAL AND FINISH AS SPECIFIED FOR RECEPTABLES. WALL PHONE PLATES SHALL HAVE MOUNTING STUDS.
4. PROVIDE PLYWOOD TERMINAL BOARD AS SHOWN ON DRAWINGS.
5. A CONDUIT RUN SHALL HAVE NOT MORE THAN THREE (3) BENDS IN A RUN BETWEEN OUTLET BOXES OR BETWEEN OUTLET BOX AND A METAL CABINET OR PULL BOX. WHEN A RUN REQUIRES MORE THAN THREE (3) BENDS, A PULL BOX OF SUITABLE SIZE SHALL BE PLACED IN SUITABLE LOCATION TO MEET THE ABOVE CONDITIONS.
- TRANSFORMERS
1. PROVIDE TRANSFORMERS IN ACCORDANCE WITH THE FOLLOWING:
- A. NEMA ST 20, GENERAL PURPOSE, DRY-TYPE, SELF-COOLED, VENTILATED.
- B. PROVIDE TRANSFORMERS IN NEMA 3R ENCLOSURE.
- C. TRANSFORMER INSULATION SYSTEM:
1. 220 DEGREES C INSULATION SYSTEM FOR TRANSFORMERS 15 KVA AND GREATER, WITH TEMPERATURE RISE NOT EXCEEDING 115 DEGREES C UNDER FULL-RATED LOAD IN MAXIMUM AMBIENT OF 40 DEGREES C.
2. 180 DEGREES C INSULATION FOR TRANSFORMERS RATED 10 KVA AND LESS, WITH TEMPERATURE RISE NOT EXCEEDING 115 DEGREES C UNDER FULL-RATED LOAD IN MAXIMUM AMBIENT OF 40 DEGREES C.
- D. TRANSFORMER OF 115 DEGREES C TEMPERATURE RISE: CAPABLE OF CARRYING CONTINUOUSLY 115 PERCENT OF NAMEPLATE KVA WITHOUT EXCEEDING INSULATION RATING.
- UNDERGROUND ELECTRICAL DISTRIBUTION
- A. SUPPORT DUCTS ON DUCT SEPARATORS COORDINATED WITH DUCT SPACING AND OUTDOOR TEMPERATURE.
- B. SPACE SEPARATORS CLOSE ENOUGH TO PREVENT SAGGING AND DEFORMING OF DUCTS, WITH NOT LESS THAN 5 SPACERS PER 20 FT OF DUCT. SECURE SEPARATORS TO EARTH AND TO DUCTS TO PREVENT DISPLACEMENT DURING BACKFILL, AND YET PERMIT LINEAR DUCT MOVEMENT DUE TO EXPANSION AND CONTRACTION AS TEMPERATURE CHANGES. STAGGER SPACERS APPROXIMATELY 6 INCHES BETWEEN TIERS.
- C. EXCAVATE TRENCH BOTTOM TO PROVIDE FIRM AND UNIFORM SUPPORT FOR DUCT BANK. PREPARE TRENCH BOTTOMS AS SPECIFIED IN CIVIL SECTION "EARTH MOVING." FOR PIPES LESS THAN 8 INCHES IN NOMINAL DIAMETER.
- D. INSTALL BACKFILL AS SPECIFIED IN CIVIL SECTION "EARTH MOVING."
- E. AFTER INSTALLING FIRST TIER OF DUCTS, BACKFILL AND COMPACT. START AT TIE-IN POINT AND WORK TOWARD END OF DUCT RUN. LEAVING DUCTS AT END OF RUN FREE TO MOVE WITH EXPANSION AND CONTRACTION DUE TO TEMPERATURE CHANGES. REPEAT PROCEDURE AFTER PLACING EACH TIER. AFTER PLACING LAST TIER, HAND-PAKE BACKFILL TO 4 INCHES OVER DUCTS AND HAND TAMP. FIRMLY TAMP BACKFILL AROUND DUCTS TO PROVIDE MAXIMUM SUPPORTING STRENGTH. USE HAND TAMPER ONLY, AFTER PLACING CONTROLLED BACKFILL OVER FINAL TIER, MAKE FINAL DUCT CONNECTIONS AT END OF RUN AND COMPLETE BACKFILLING WITH NORMAL COMPACTION AS SPECIFIED IN CIVIL SECTION "EARTH MOVING."
- F. INSTALL DUCTS WITH A MINIMUM OF 3 INCHES BETWEEN DUCTS FOR LIKE SERVICES AND 6 INCHES BETWEEN POWER AND SIGNAL DUCTS.
- G. DEPTH: INSTALL TOP OF DUCT BANK AT LEAST 36 INCHES BELOW FINISHED GRADE, UNLESS OTHERWISE INDICATED.
- H. SET ELEVATION OF BOTTOM OF DUCT BANK BELOW THE FROST LINE.
- I. INSTALL MANUFACTURED SCHEDULE 80 PVC CONDUIT ELBOWS FOR STUB-UPS AT POLES AND EQUIPMENT AND AT BUILDING ENTRANCES THROUGH THE FLOOR.
- J. WARNING TAPE: BURY WARNING TAPE APPROXIMATELY 12 INCHES ABOVE ALL CONCRETE-ENCASED DUCTS AND DUCT BARS. ALIGN TAPE PARALLEL TO AND WITHIN 3 INCHES OF THE CENTERLINE OF DUCT BANK. PROVIDE AN ADDITIONAL WARNING TAPE FOR EACH 12-INCH INCREMENT OF DUCT-BANK WIDTH OVER A NOMINAL 18 INCHES. SPACE ADDITIONAL TAPES 12 INCHES APART, HORIZONTALLY.
- K. DUCTS FOR ELECTRICAL BRANCH CIRCUITS: RNC, NEMA TYPE EPC-40-PVC, IN DIRECT-BURIED DUCT BANK, UNLESS OTHERWISE INDICATED.

REVISIONS:

SHEET CONTENTS: ELECTRICAL SPECIFICATIONS

SHEET NUMBER:

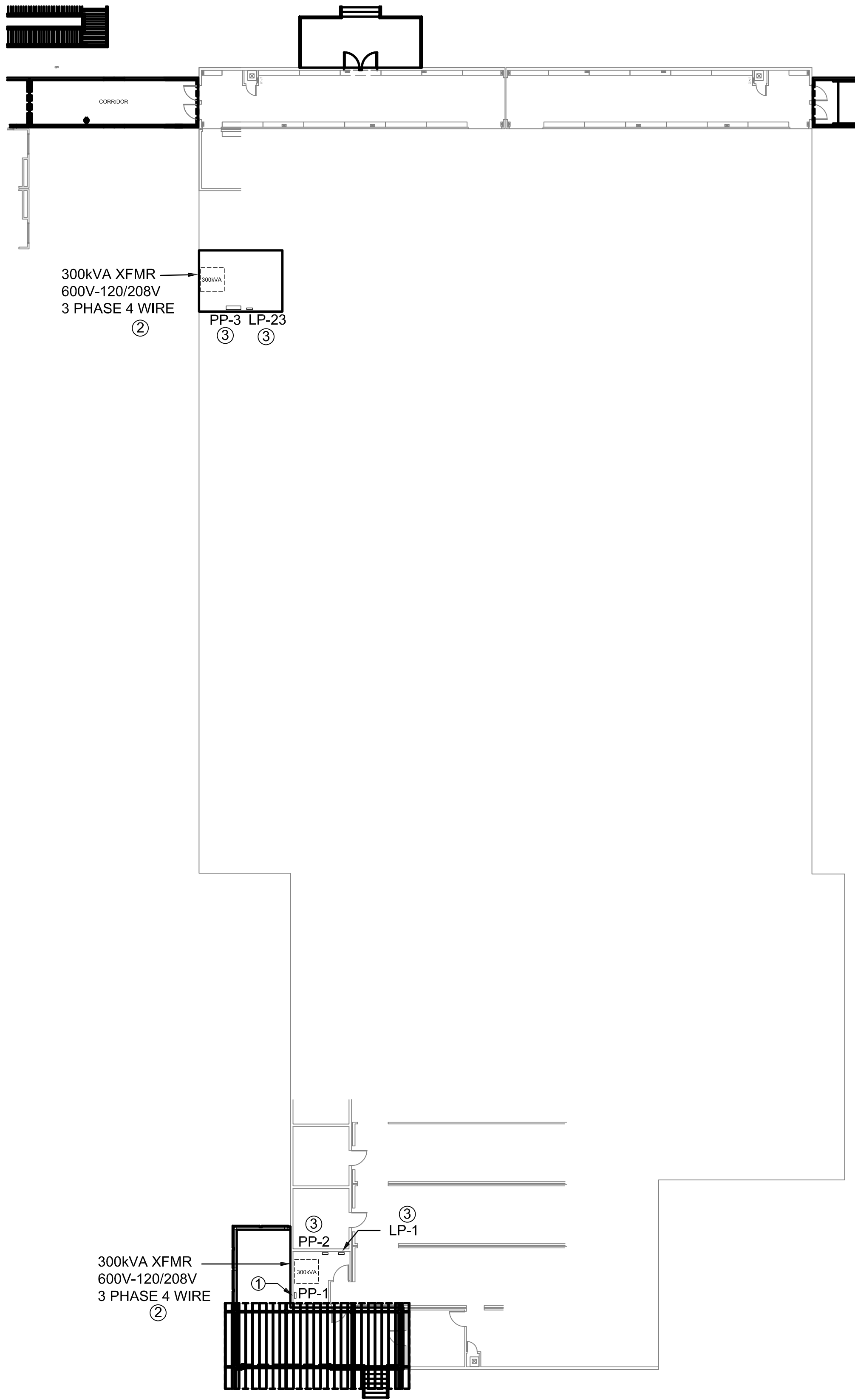
E-002

D

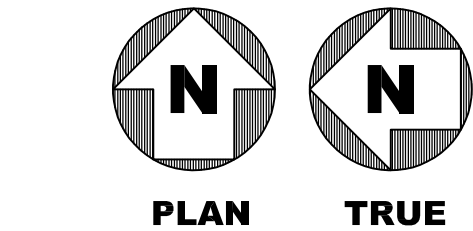
C

B

A



1 KITCHEN & DINING — DEMO PLAN
ED-101 SCALE: 1/4" = 1'-0"



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

GENERAL NOTES

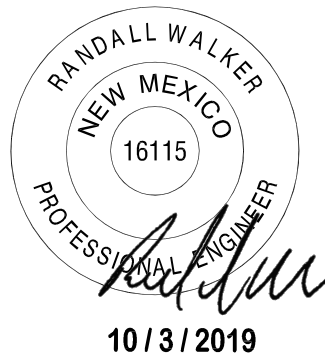
- REFER TO SHEET E-002 FOR ELECTRICAL SPECIFICATIONS.
- REFER TO SHEET E-601 FOR SINGLE LINE DIAGRAM.

KEY NOTES

- DE-ENERGIZE EXISTING PANELBOARD PP-1 AND REMOVE ALL FEEDERS.
- DE-ENERGIZE EXISTING TRANSFORMER AND REMOVE ALL FEEDERS.
- EXISTING TO REMAIN.

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CRIOLLO LODGE
1218 KIZZER LANE
JAL., NEW MEXICO 88252

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REVISIONS:

SHEET CONTENTS:

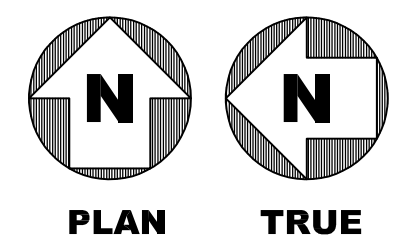
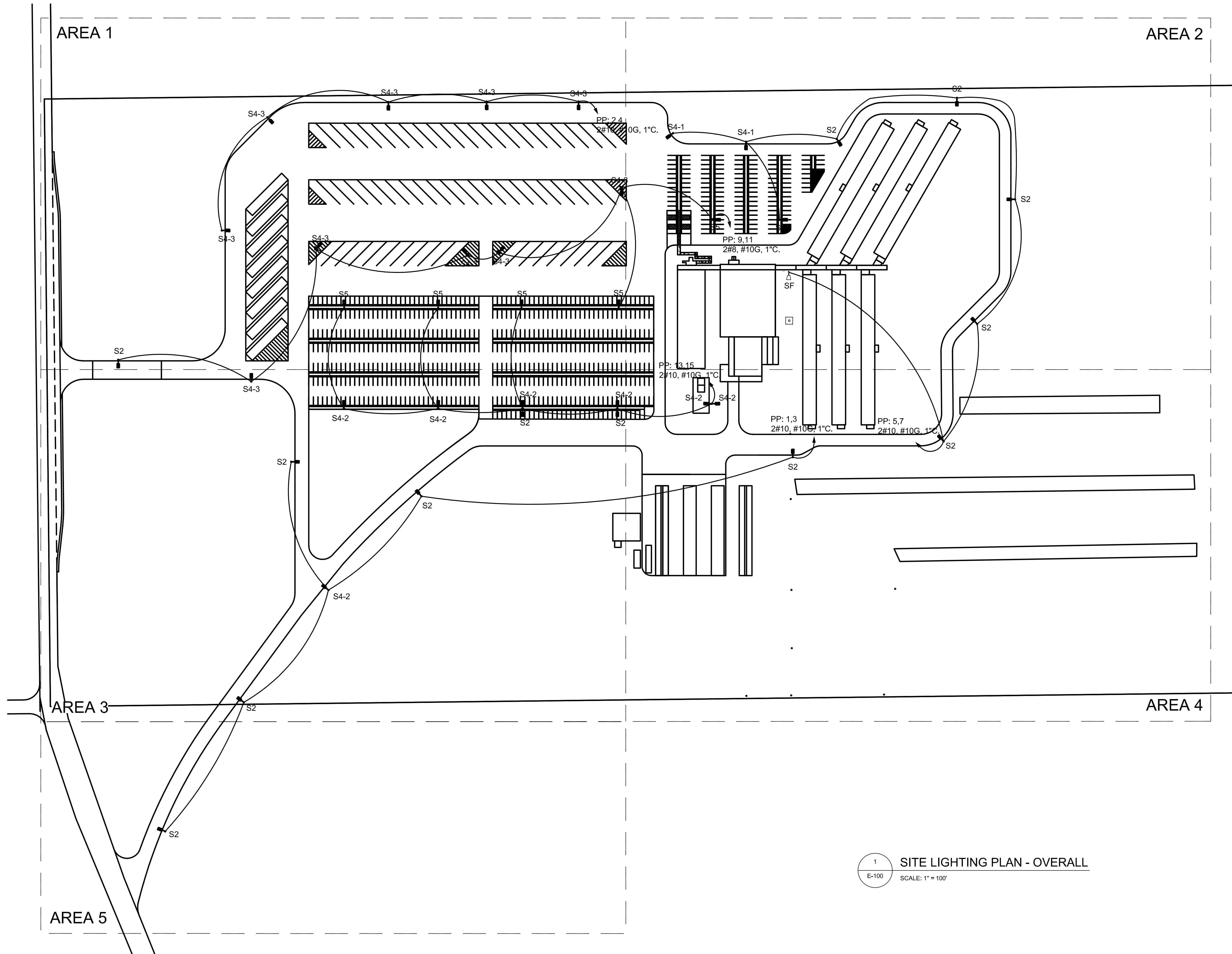
DEMO PLAN - KITCHEN AND
DINING

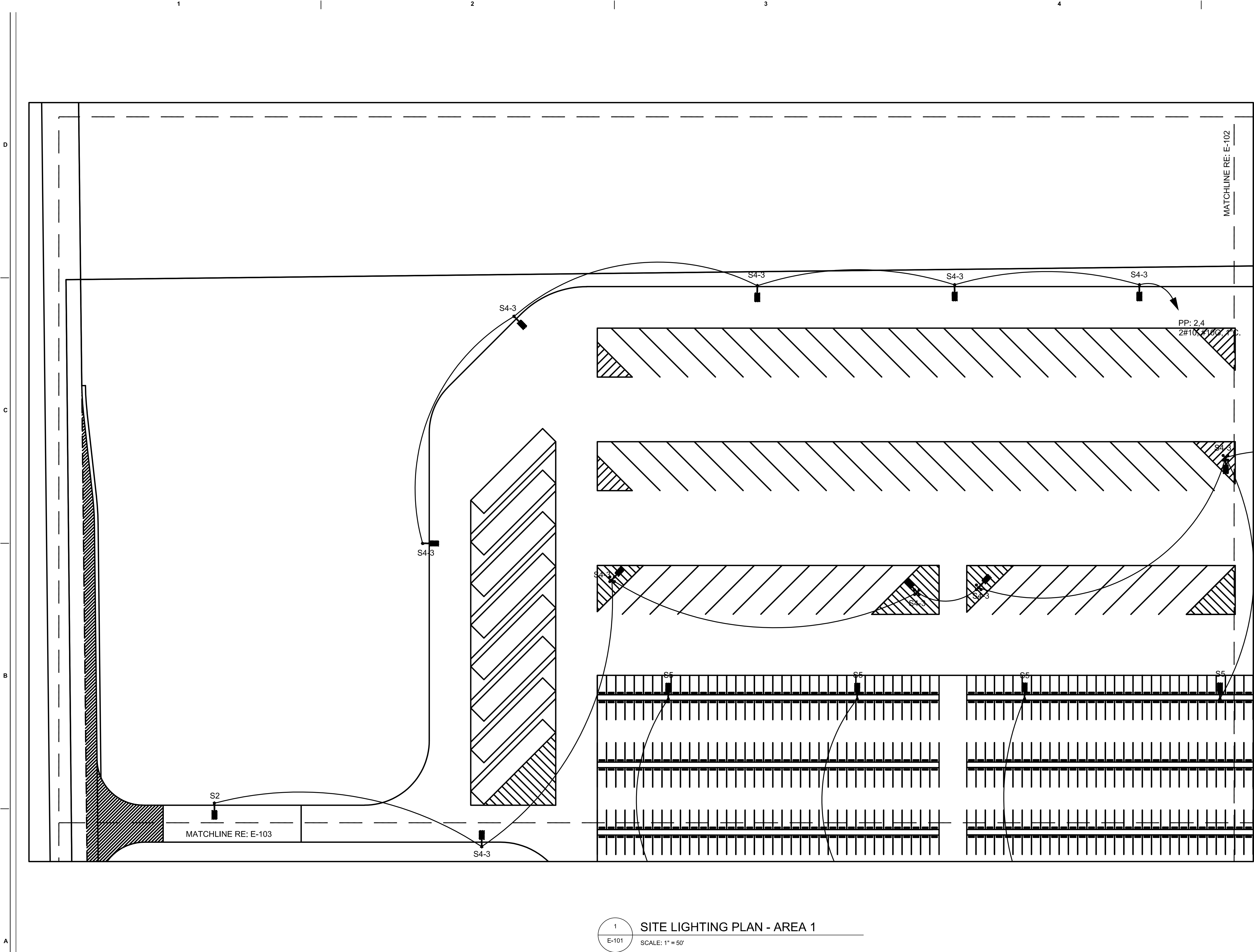
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ED-101

XXX

1. REFER TO SHEET E-600 FOR LIGHTING FIXTURE SCHEDULE.
2. REFER TO SHEET E-002 FOR ELECTRICAL SPECIFICATIONS.





1
E-101
SITE LIGHTING PLAN - AREA 1
SCALE: 1" = 50'

GENERAL NOTES

1. REFER TO SHEET E-600 FOR LIGHTING FIXTURE SCHEDULE.
2. REFER TO SHEET E-002 FOR ELECTRICAL SPECIFICATIONS.

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RANDALL WALKER
NEW MEXICO
16115
PROFESSIONAL ENGINEER
10/3/2019



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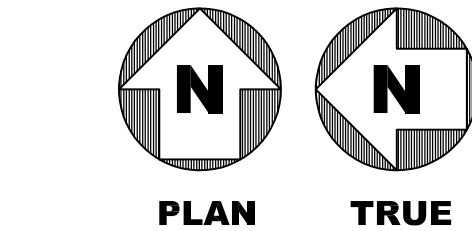
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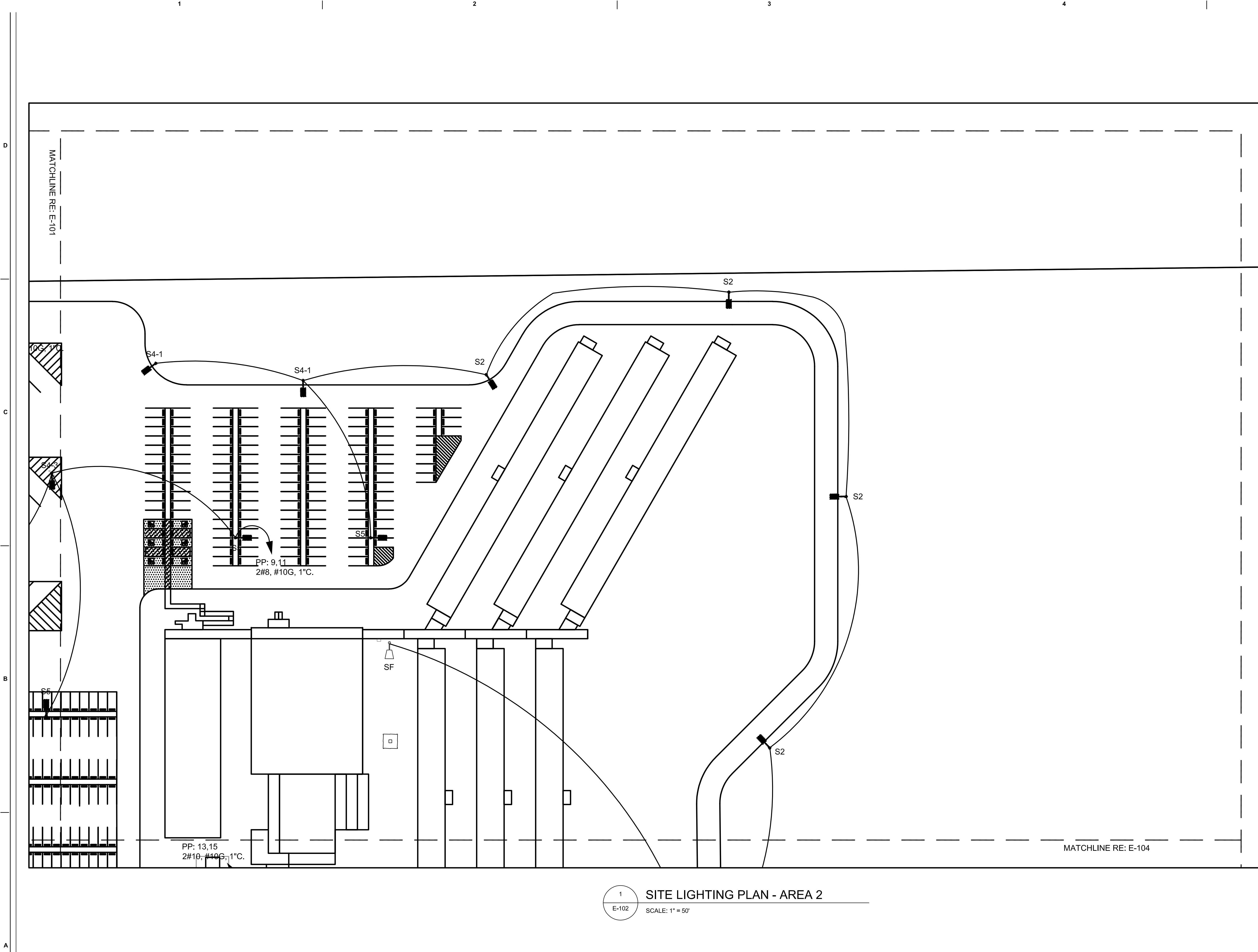
SHEET CONTENTS:

SITE LIGHTING PLAN - AREA 1

SHEET NUMBER:

E-101





1 SITE LIGHTING PLAN - AREA 2
E-102 SCALE: 1" = 50'

GENERAL NOTES

1. REFER TO SHEET E-600 FOR LIGHTING FIXTURE SCHEDULE.
2. REFER TO SHEET E-002 FOR ELECTRICAL SPECIFICATIONS.

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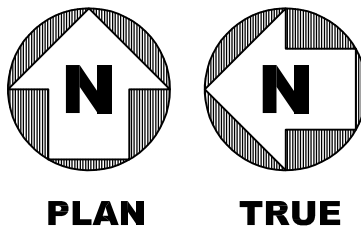
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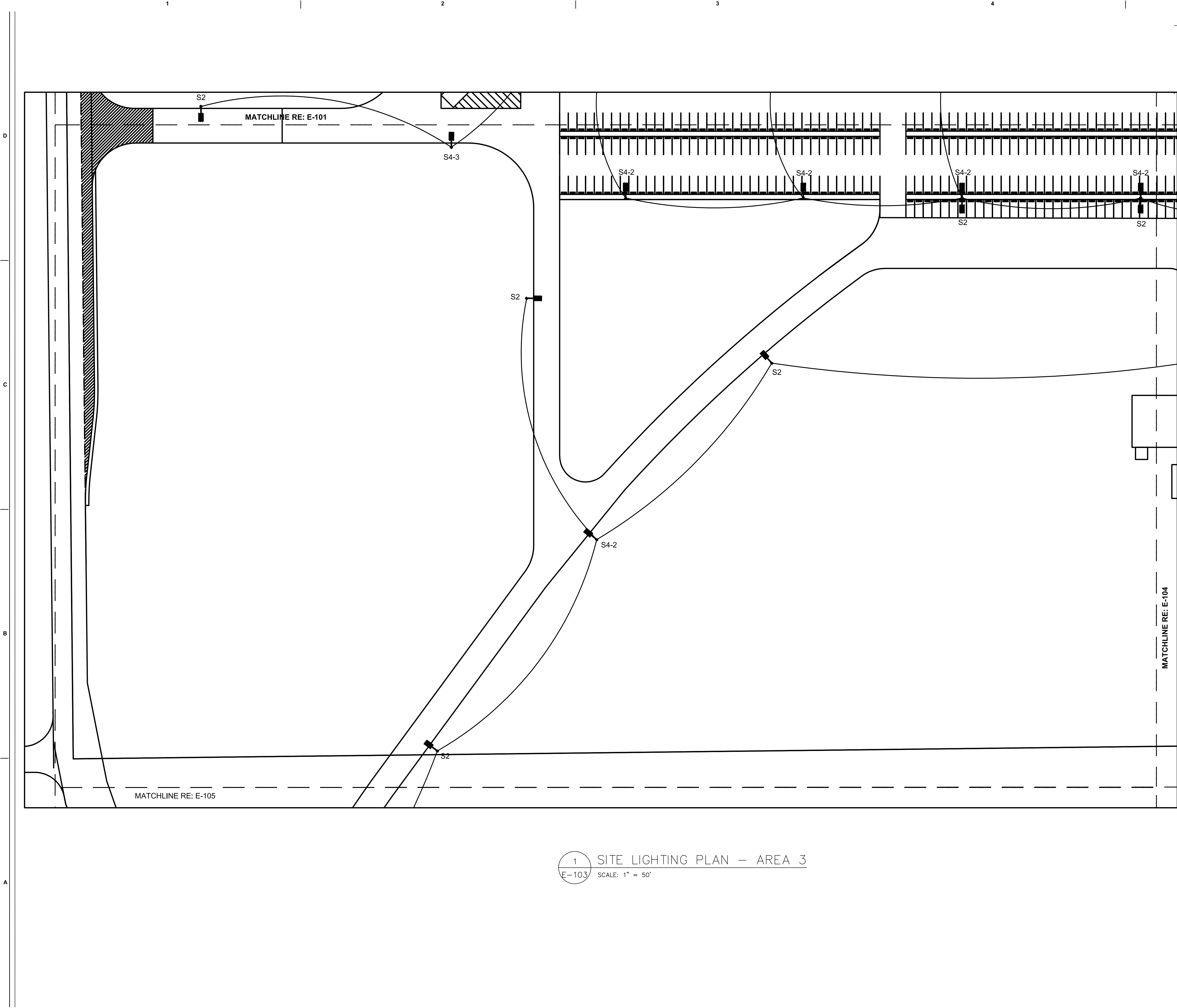
SHEET CONTENTS:

SITE LIGHTING PLAN - AREA 2

SHEET NUMBER:

E-102





GENERAL NOTES

- REFER TO SHEET E-600 FOR LIGHTING FIXTURE SCHEDULE.
- REFER TO SHEET E-002 FOR ELECTRICAL SPECIFICATIONS.

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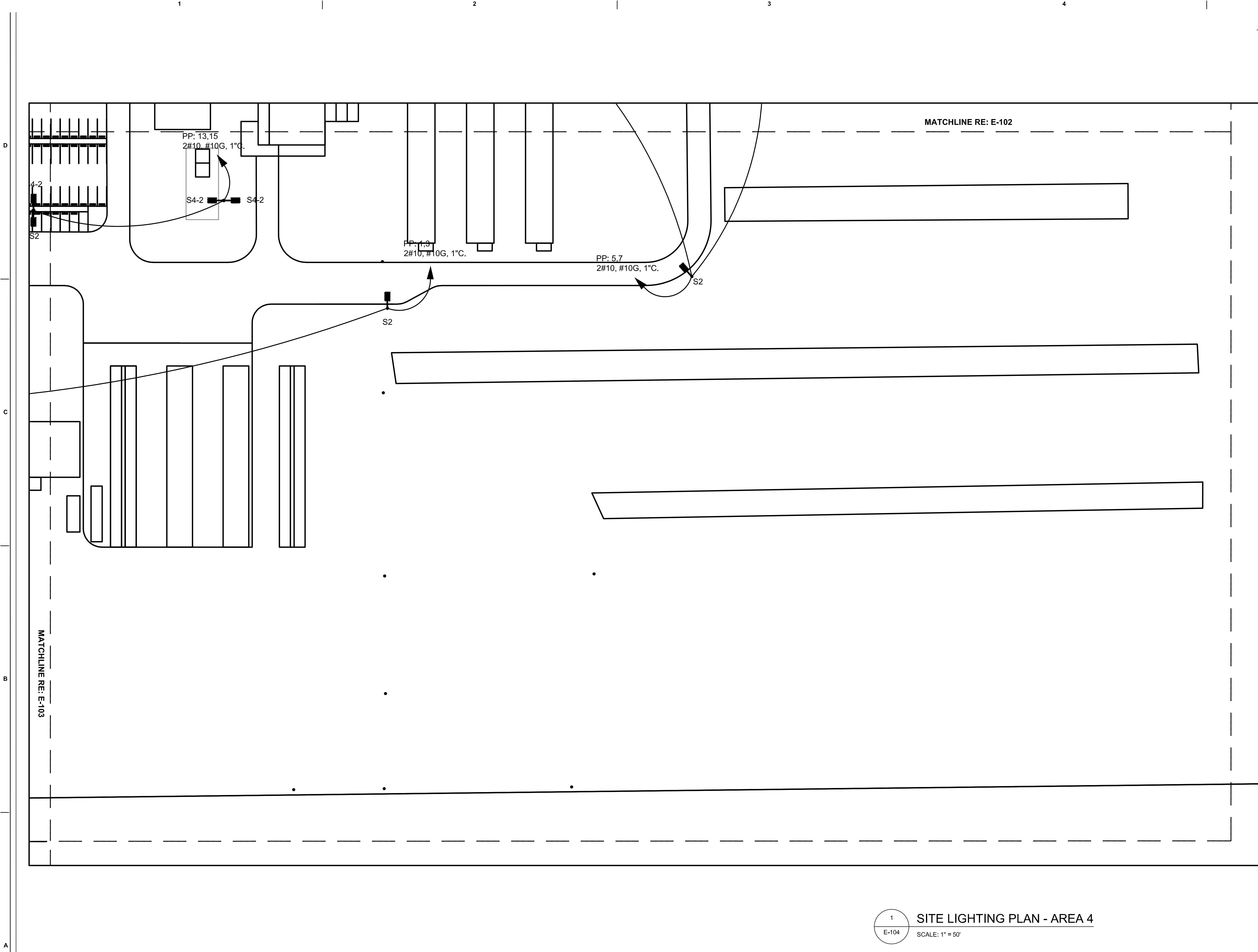
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REVISIONS:

SHEET CONTENTS:
SITE LIGHTING PLAN - AREA 3

SHEET NUMBER:
E-103

1 SITE LIGHTING PLAN – AREA 3
E-103 SCALE: 1" = 50'



GENERAL NOTES

- 1. REFER TO SHEET E-600 FOR LIGHTING FIXTURE SCHEDULE.
- 2. REFER TO SHEET E-002 FOR ELECTRICAL SPECIFICATIONS.

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REVISIONS:

SHEET CONTENTS:

SITE LIGHTING PLAN - AREA 4

SHEET NUMBER:

E-104

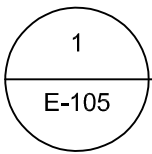
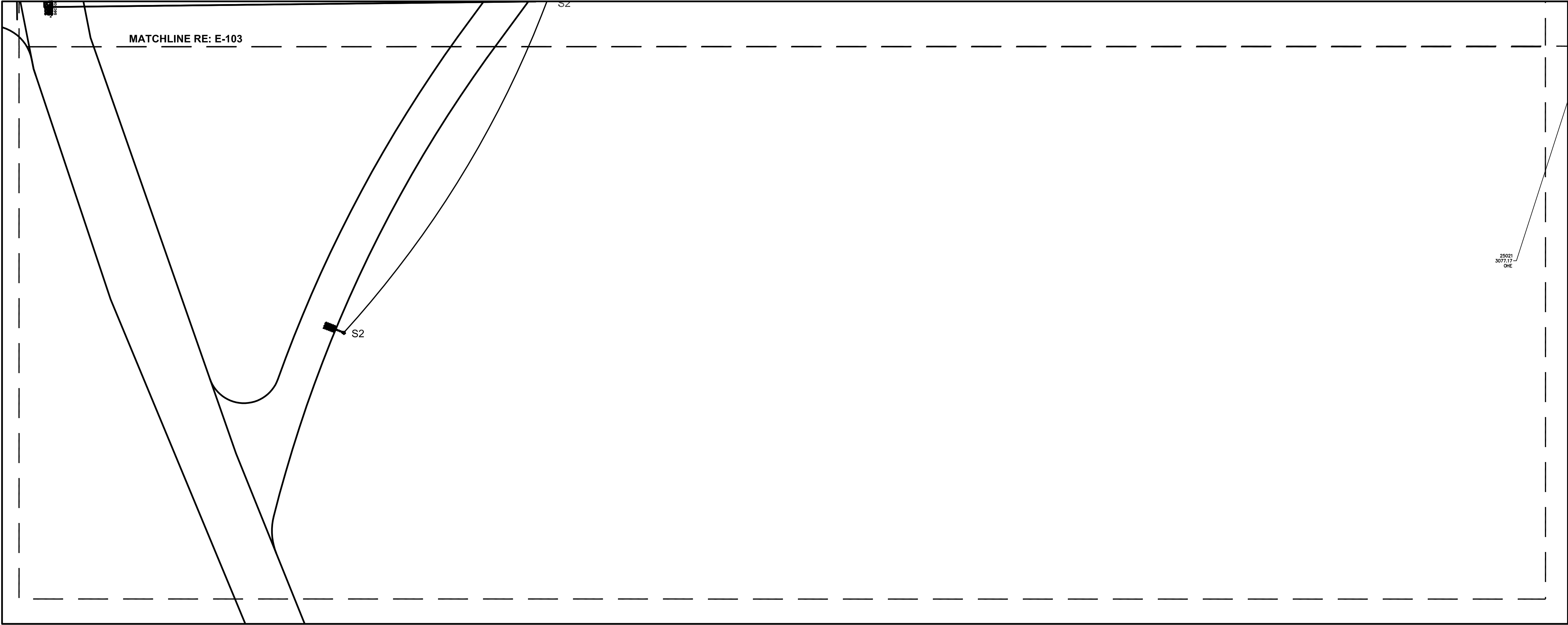
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C

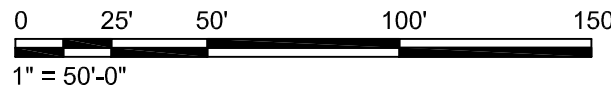
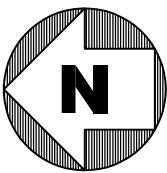
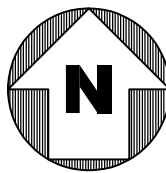
B

A



SITE LIGHTING PLAN - AREA 5

SCALE: 1" = 50'



GENERAL NOTES

1. REFER TO SHEET E-600 FOR LIGHTING FIXTURE SCHEDULE.
2. REFER TO SHEET E-002 FOR ELECTRICAL SPECIFICATIONS.

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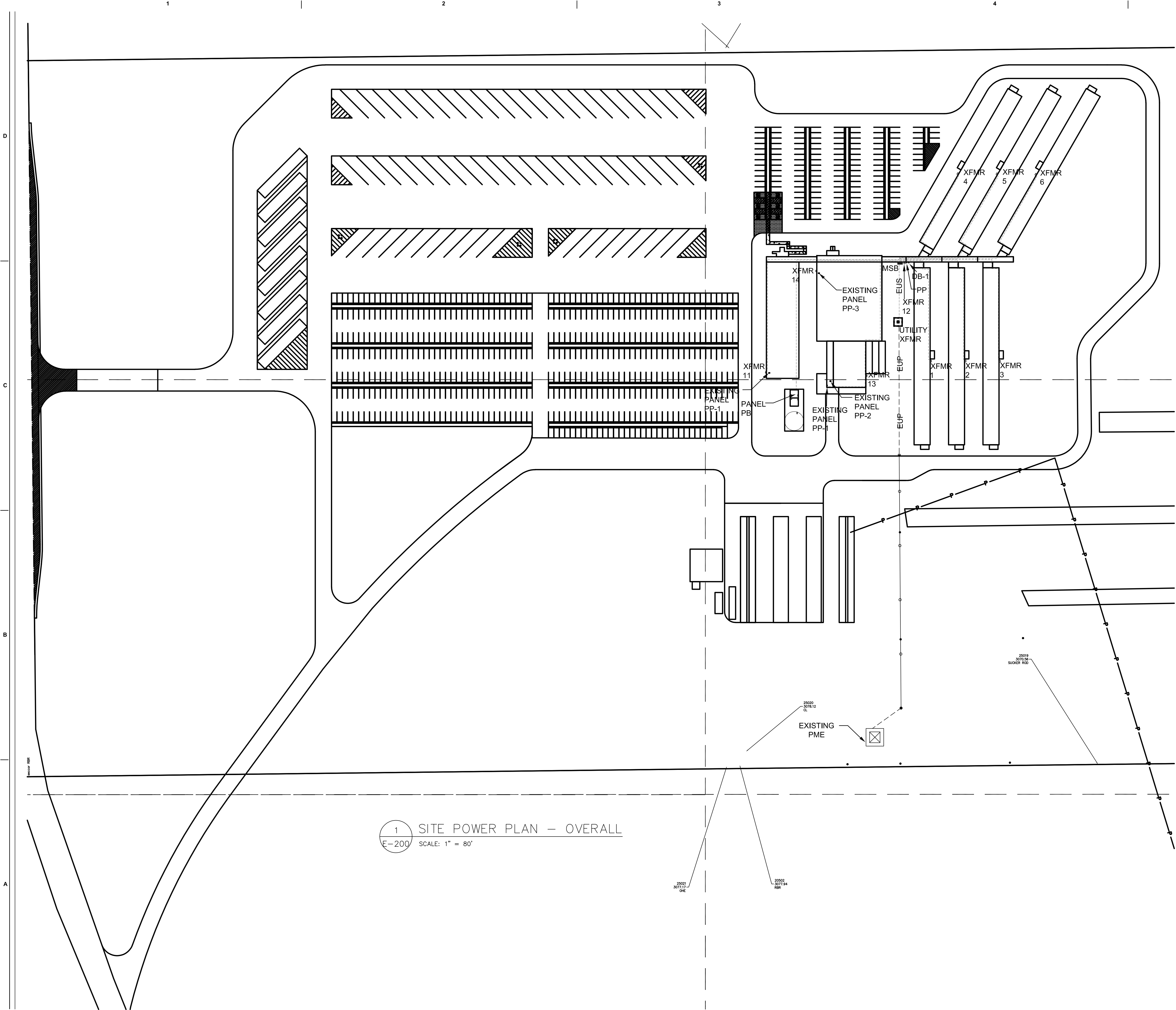
SHEET CONTENTS:

SITE LIGHTING PLAN - AREA 5

SHEET NUMBER:

E-105

XXX



GENERAL NOTES

- 1. REFER TO SHEET E-002 FOR ELECTRICAL SPECIFICATIONS.
- 2. REFER TO SHEET E-601 FOR SINGLE LINE DIAGRAM.

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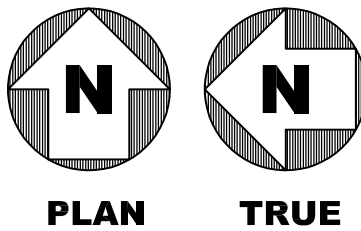
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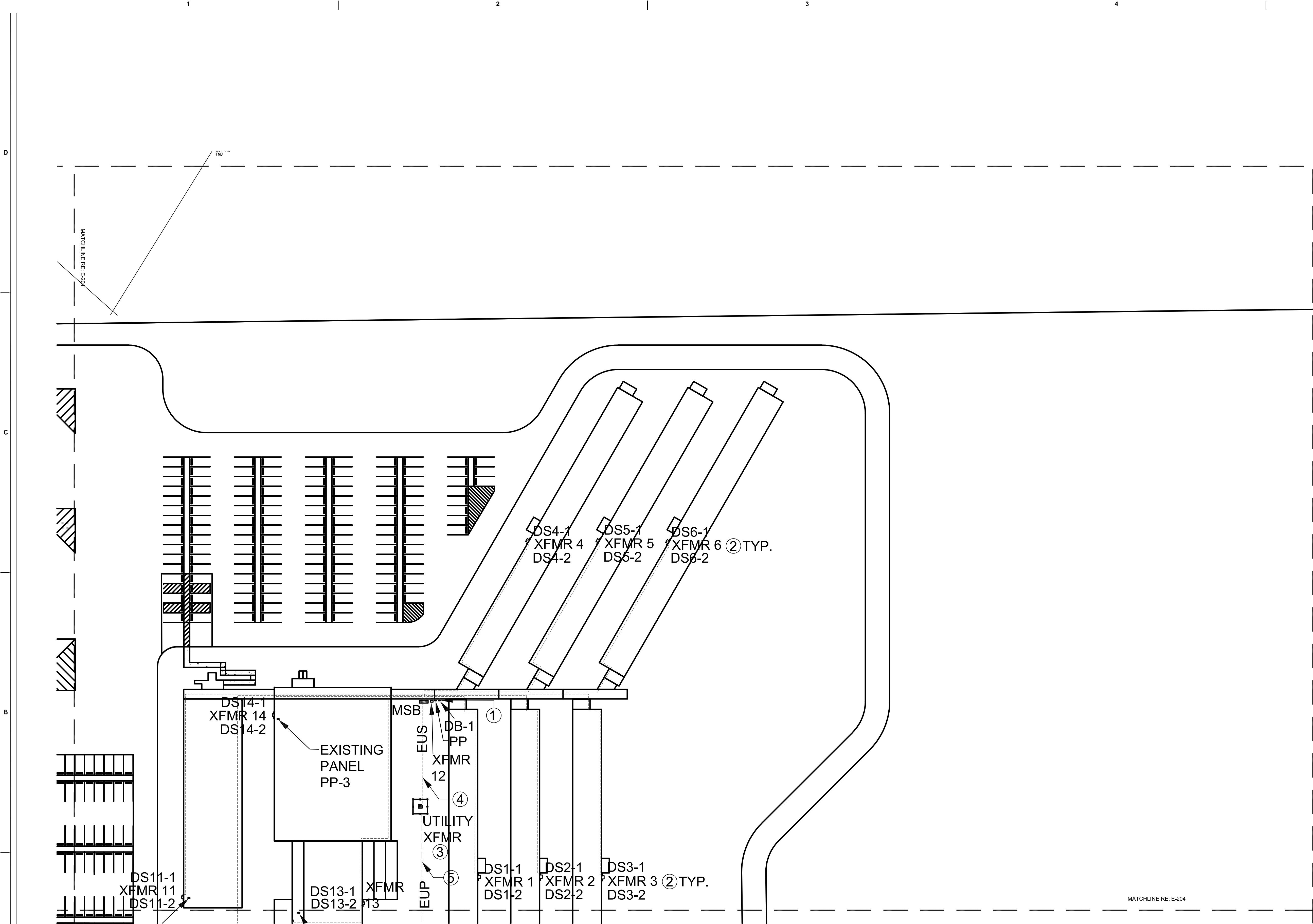
SITE POWER PLAN -
OVERALL

SHEET NUMBER:

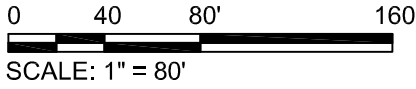
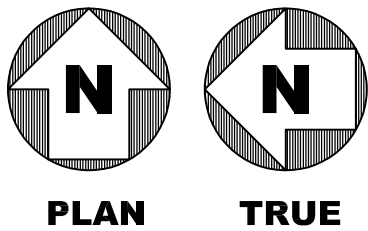
E-200



0 40 80' 160'
SCALE: 1" = 80'



1 SITE POWER PLAN - AREA 2
E-202 SCALE: 1" = 50'



GENERAL NOTES

1. REFER TO SHEET E-002 FOR ELECTRICAL SPECIFICATIONS.
2. REFER TO SHEET E-601 FOR SINGLE LINE DIAGRAM.

KEYNOTES

1. PROVIDE UNISTRUT RACK TO SUPPORT PANELBOARDS. REFER TO SHEET E-500 FOR RACK MOUNTED EQUIPMENT DETAIL.
2. PROVIDE CONCRETE PAD FOR THE TRANSFORMERS. TYPICAL FOR ALL OUTDOOR DRY TYPE TRANSFORMERS.
3. PROVIDE CONCRETE PAD FOR OWNER PROVIDED OIL FILLED TRANSFORMER. PROVIDE PRIMARY AND SECONDARY CONDUCTOR CONNECTIONS ACCORDING TO MANUFACTURER RECOMMENDATIONS. PROVIDE GROUND RODS AT EACH CORNER OF THE PAD CONNECTED TOGETHER WITH #4/0 GROUND CONDUCTOR AND MAKE CONNECTIONS TO TRANSFORMER ENCLOSURE ACCORDING TO MANUFACTURER RECOMMENDATIONS.
4. PROVIDE UNDERGROUND SECONDARY SERVICE ENTRANCE FEEDER A MINIMUM 36" BELOW GRADE.
5. PROVIDE UNDERGROUND PRIMARY SERVICE FEEDER TO TRANSFORMER AT A MINIMUM 36" BELOW GRADE.

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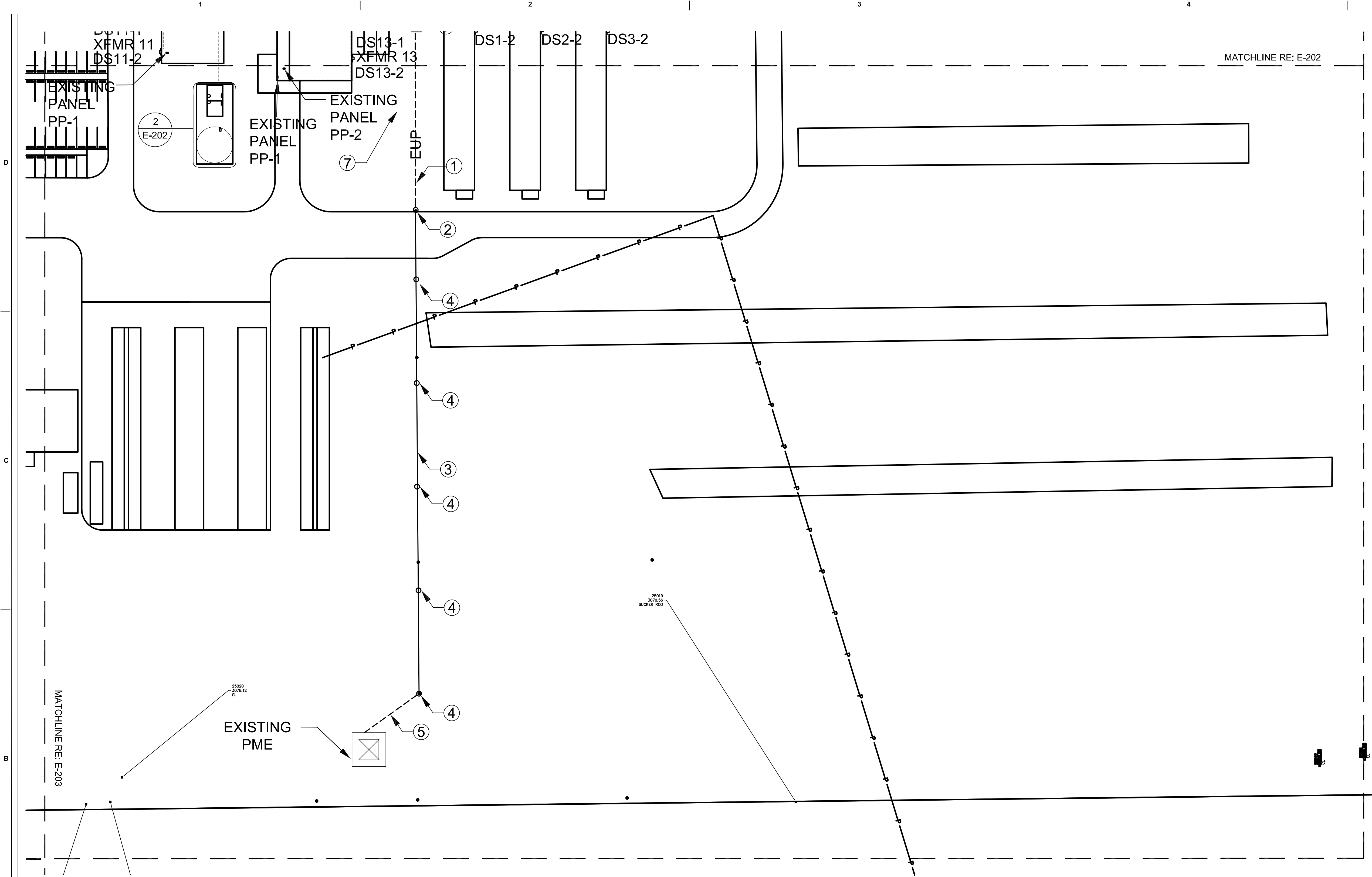
REVISIONS:

SHEET CONTENTS:
SITE POWER PLAN - AREA 2

SHEET NUMBER:

E-201

XXX



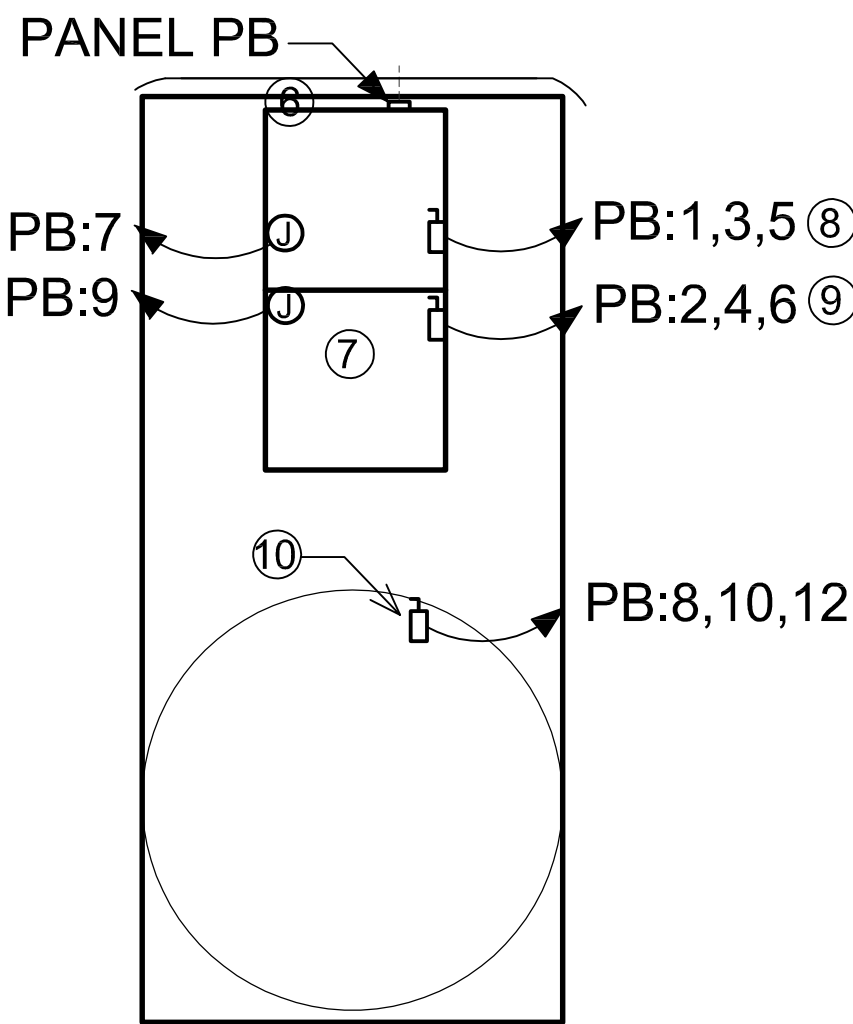
1 SITE POWER PLAN - AREA 4
E-202 SCALE: 1" = 50'

GENERAL NOTES

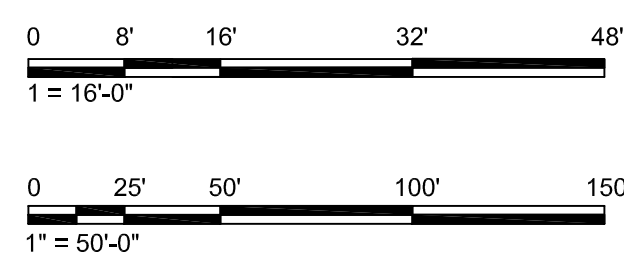
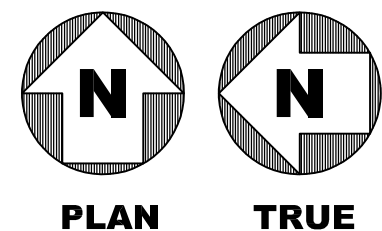
1. REFER TO SHEET E-002 FOR ELECTRICAL SPECIFICATIONS.
2. REFER TO SHEET E-601 FOR SINGLE LINE DIAGRAM.

KEYNOTES

- 1 PROVIDE TECK CABLES BURIED DIRECTLY IN THE GROUND AT A MINIMUM OF 36" BELOW FINISHED GRADE WITH RGS CONDUIT ABOVE GROUND FOR PRIMARY CABLES. ORIGINATE CONDUITS AT RISER POLE.
- 2 POWER POLES BY OTHERS.
- 3 PROVIDE 3-#2 AWG ACSR OVERHEAD FEEDER. PROVIDE SAG CALCULATIONS FOR THE OVERHEAD FEEDER.
- 4 POWER POLES BY OTHERS.
- 5 PROVIDE 3-#2, 15KV, #2GND, 600V TECK CABLES BURIED DIRECTLY IN THE GROUND AND CONNECT TO EXISTING OWNER PROVIDED AND INSTALLED PAD-MOUNTED SWITCH. CAREFULL COORDINATION IS REQUIRED WITH OWNER AND UTILITY WHEN CONNECTING TO SPARE SWITCH WAY.
- 6 PROVIDE PANELBOARD FOR ELECTRICAL DISTRIBUTION TO EQUIPMENT IN THE PUMP HOUSE.
- 7 PUMPHOUSE LIGHTING AND RECEPTACLES SHALL BE FED FROM THE NEAREST EXISTING PANELBOARD IN THE KITCHEN AREA. PROVIDE 120V, 20A CIRCUIT BREAKER IN THE PANELBOARD AS NEEDED.
- 8 MAKE CONNECTIONS TO THE MANUFACTURER PROVIDED VFD FOR BOOSTER PUMP.
- 9 PROVIDE AND MAKE CONNECTIONS TO THE DISCONNECT SWITCH FOR JOCKEY PUMP.
- 10 PROVIDE AND MAKE CONNECTIONS TO THE DISCONNECT SWITCH FOR CHEMICAL TREATMENT SYSTEM PUMP.



2 PUMPHOUSE PLAN
E-202 SCALE: 1" = 16'



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JAL, NEW MEXICO 88252

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REVISIONS:

NO.	DESCRIPTION	DATE

SHEET CONTENTS:
SITE POWER PLAN - AREA 4

SHEET NUMBER:
E-202

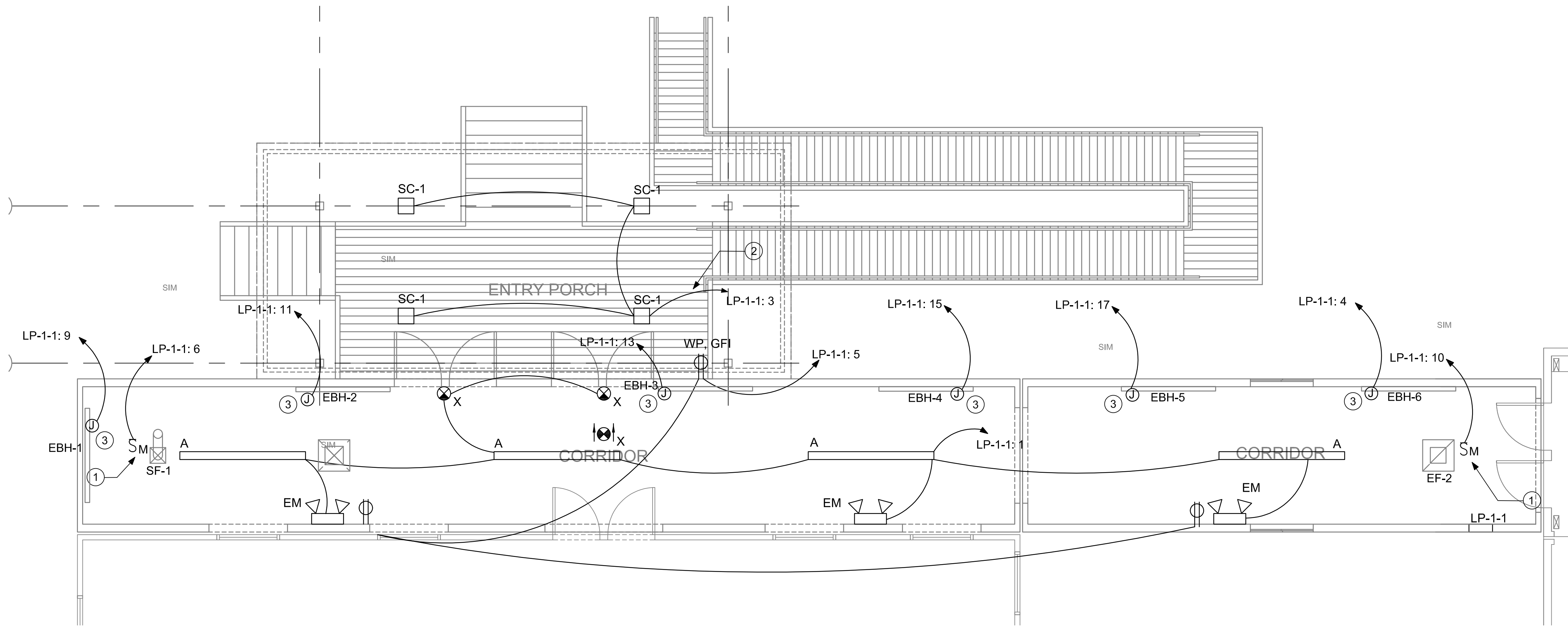
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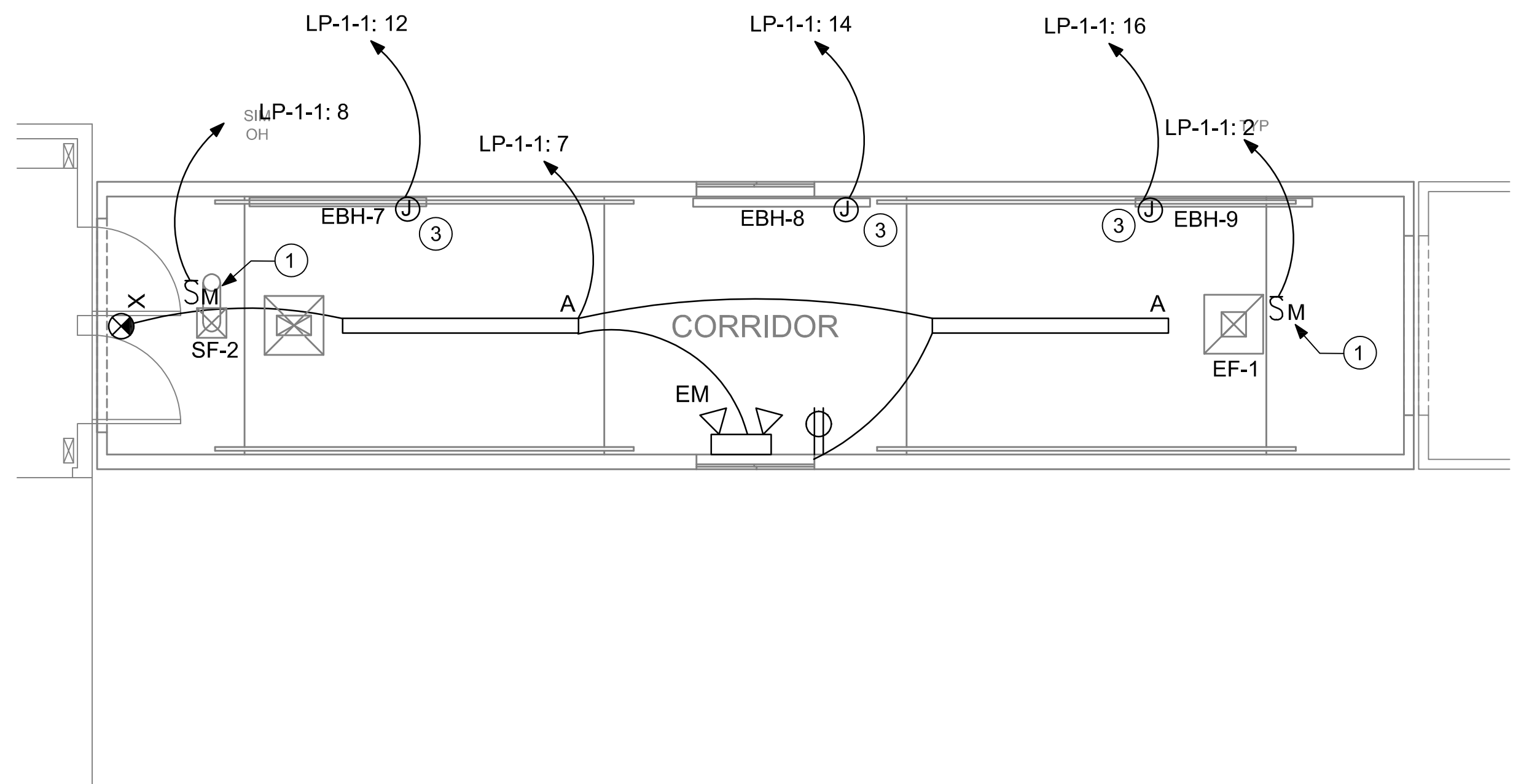
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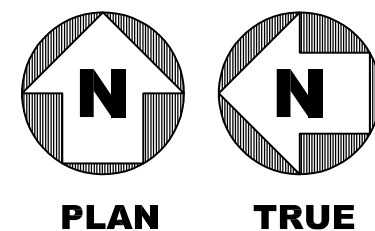
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1 ENTRY PORCH AT REC COMPLEX – LIGHTING AND POWER PLAN
E-203 SCALE: 1/4" = 1'-0"



2 CORRIDOR BETWEEN DINING HALL AND DORM – LIGHTING AND POWER PLAN
E-203 SCALE: 1/4" = 1'-0"



GENERAL NOTES

1. REFER TO SHEET E-002 FOR ELECTRICAL SPECIFICATIONS.
2. REFER TO SHEET E-601 FOR SINGLE LINE DIAGRAM.

KEY NOTES

- ① PROVIDE 1P, 20A MOTOR RATED SWITCH FOR HVAC FANS. REFER TO MECHANICAL DRAWINGS FOR THE LOCATION OF FANS.
- ② EXTERIOR LIGHT FIXTURES TYPE "SC1" UNDER CANOPY SHALL BE PHOTOCELL CONTROL. TYPICAL FOR ALL LIGHT FIXTURE TYPE "SC1".
- ③ MAKE CONNECTIONS TO THE MANUFACTURER PROVIDED DISCONNECT SWITCH FOR ELECTRIC BASEBOARD HEATERS. REFER TO MECHANICAL DRAWINGS FOR THE EXACT LOCATION OF THE HEATERS.

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REVISIONS:

SHEET CONTENTS:

ENLARGED LIGHTING AND
POWER PLAN

SHEET NUMBER:

E-203

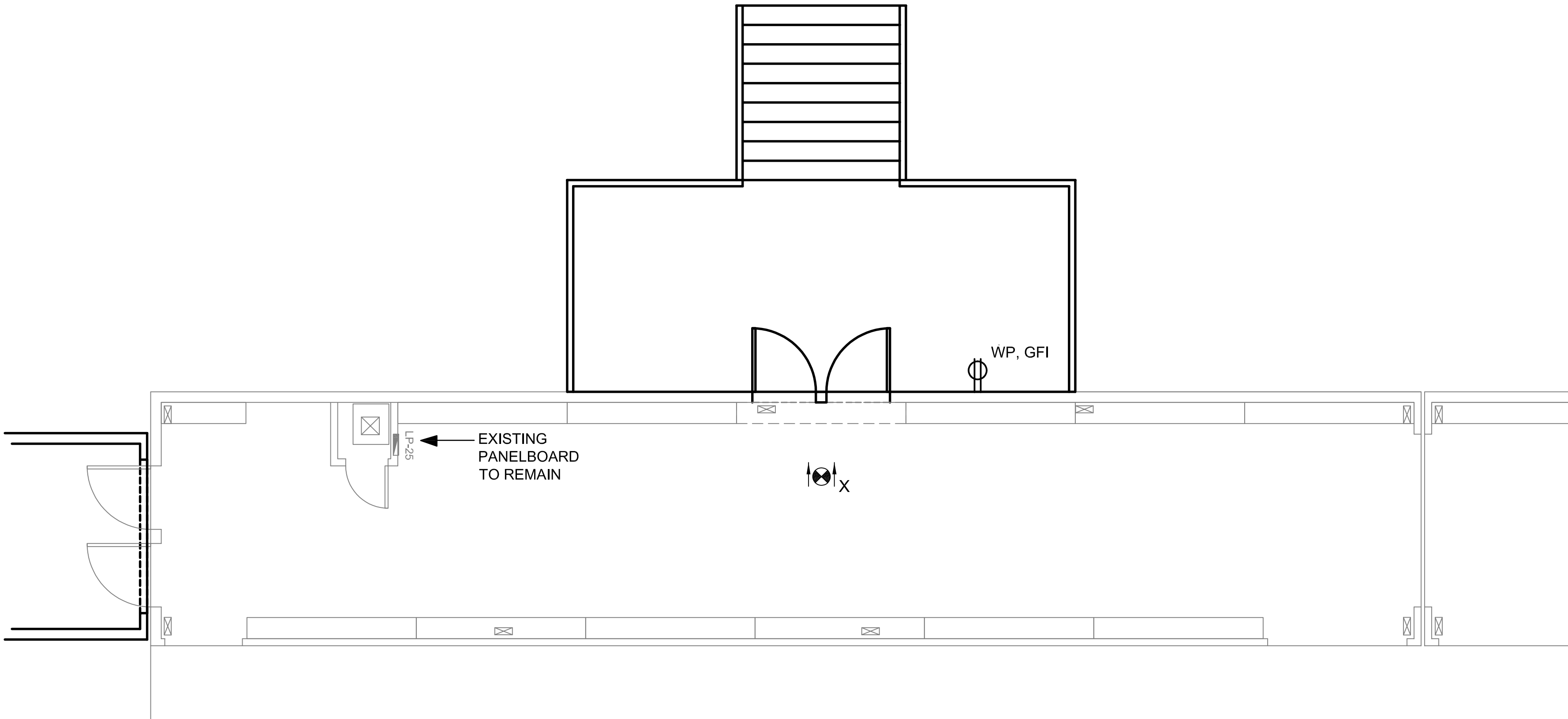
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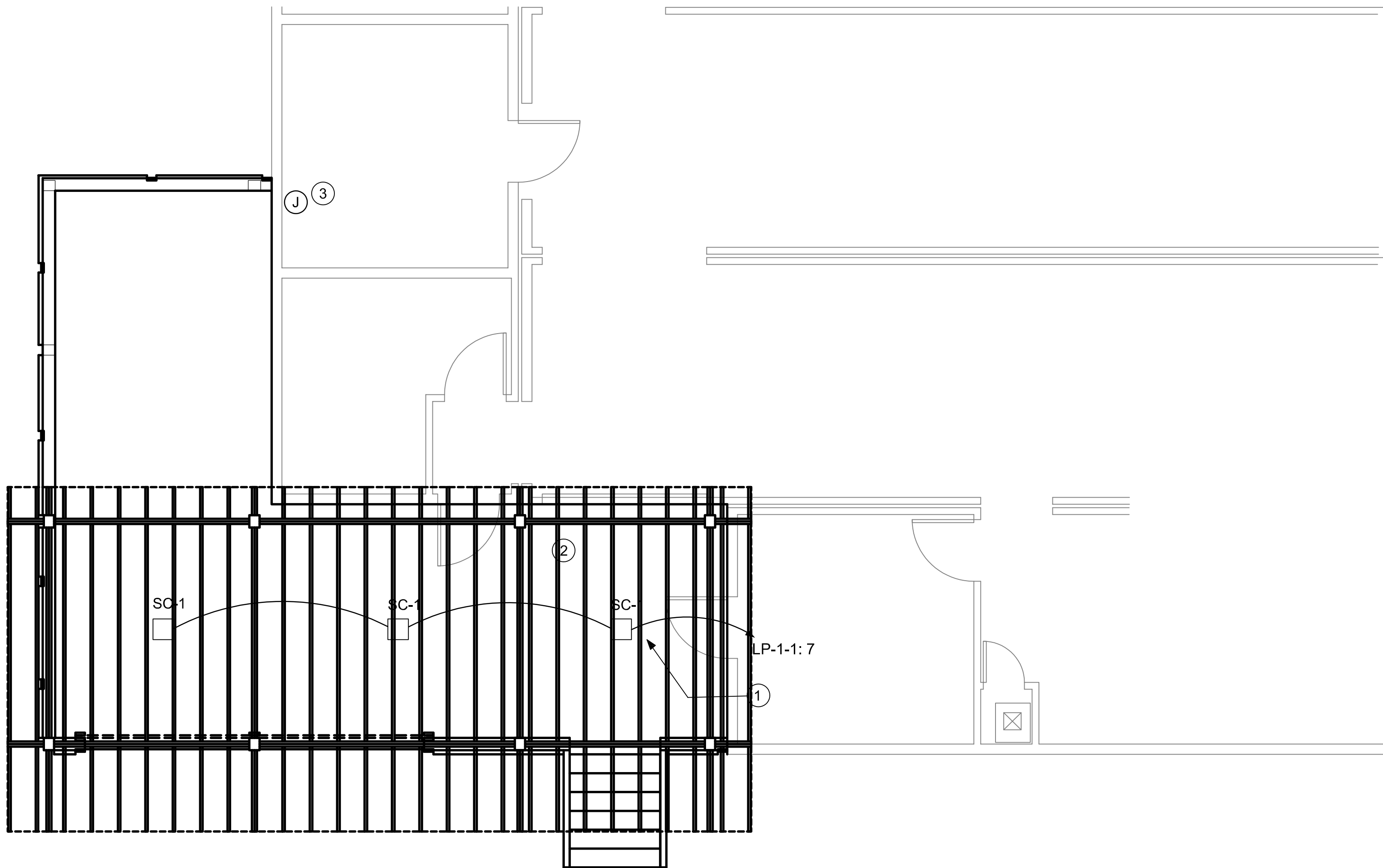
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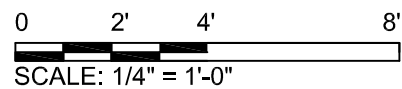
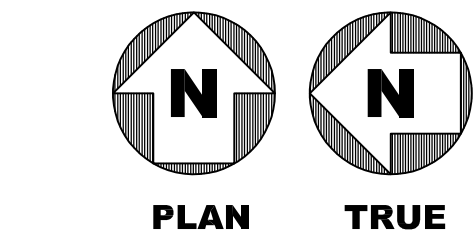
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1 ENTRY PORCH AT DINING HALL – LIGHTING AND POWER PLAN
E-204 SCALE: 1/4" = 1'-0"



2 LOADING DOCK AT KITCHEN – LIGHTING PLAN
E-204 SCALE: 1/4" = 1'-0"



GENERAL NOTES

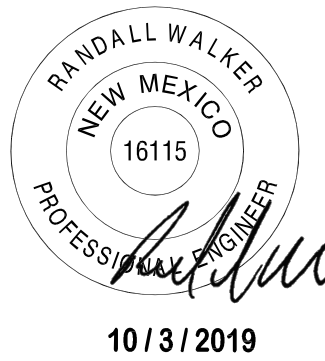
1. REFER TO SHEET E-002 FOR ELECTRICAL SPECIFICATIONS.
2. REFER TO SHEET E-601 FOR SINGLE LINE DIAGRAM.

KEY NOTES

- ① EXTERIOR LIGHT FIXTURES TYPE "SC1" UNDER CANOPY SHALL BE PHOTOCELL CONTROL.
- ② EXISTING EXTERIOR WALL MOUNTED LIGHT FIXTURES TO REMAIN.
- ③ PROVIDE 120V, 20A POWER SUPPLY FOR GREASE INTERCEPTOR CONTROL PANEL FROM THE NEAREST EXISTING PANELBOARD IN THE KITCHEN AREA. PROVIDE 120V, 20A CIRCUIT BREAKER IN THE PANELBOARD AS NEEDED. COORDINATE THE EXACT LOCATION OF THE CONTROL PANEL WITH MECHANICAL.

Jacobs

777 Main Street
Fort Worth, TX 76102



CRIOLLO LODGE
1218 KIZZER LANE
JAL, NEW MEXICO 88252

PROJECT NUMBER:

WFXP7601

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10-3-19

ISSUES:

A: FOR REVIEW ONLY	10/3/19
B: INTERIM SUBMITTAL	5/01/2019
C: 95% PROGRESS SET	6/21/2019
D: FOR CONSTRUCTION	10/03/2019

REVISIONS:

SHEET CONTENTS:

ENLARGED LIGHTING AND
POWER PLAN

SHEET NUMBER:

E-204

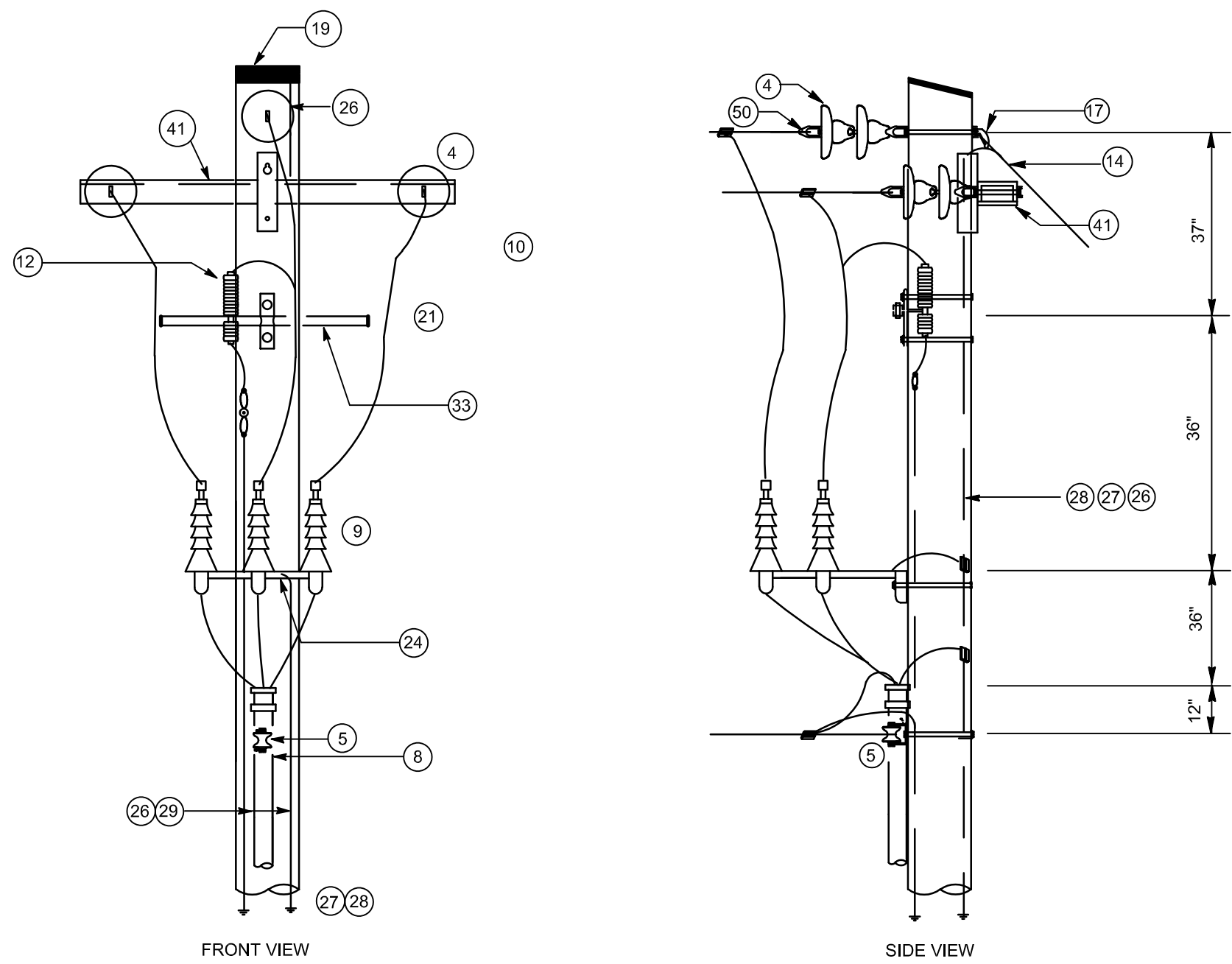
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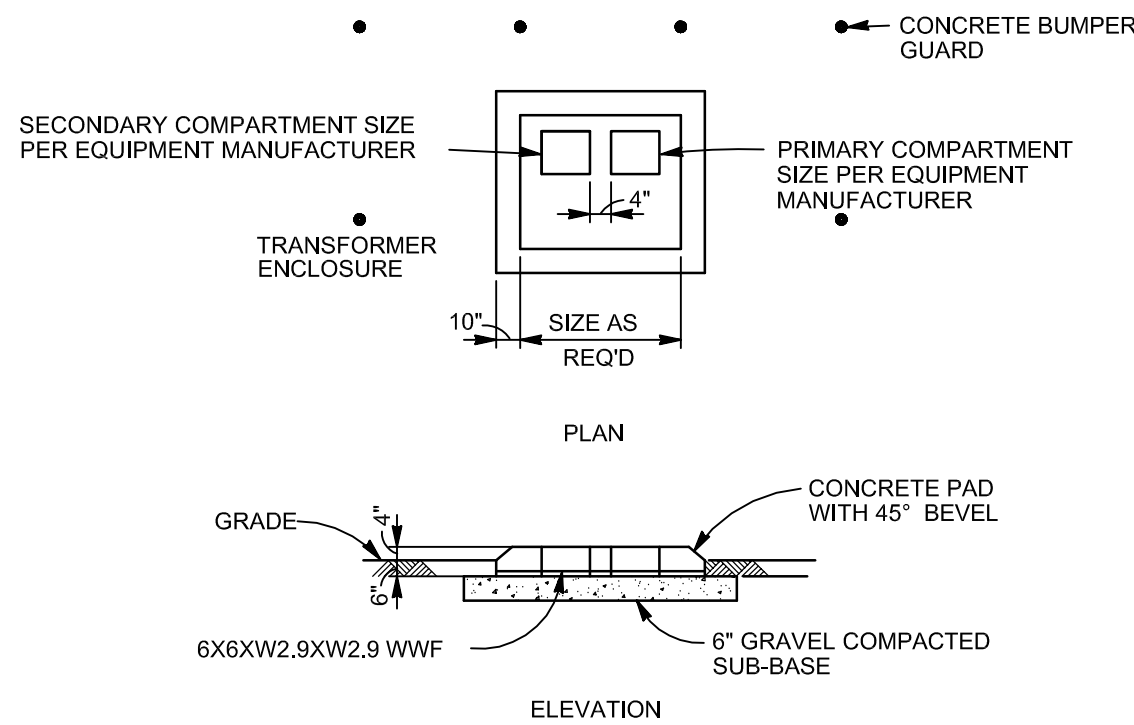
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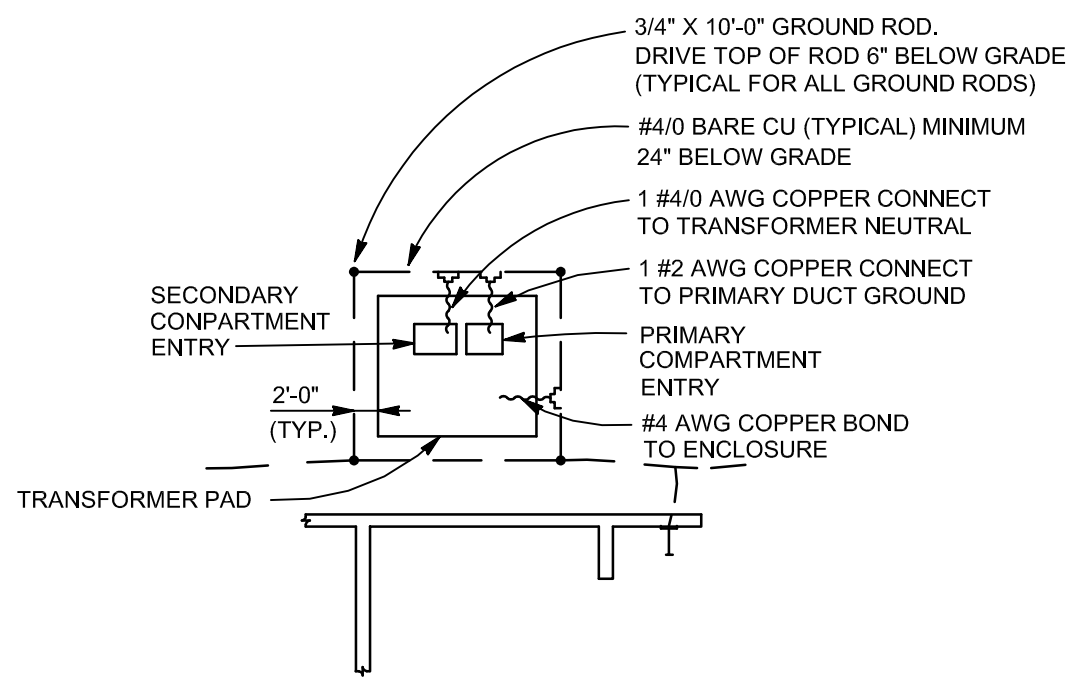
SCHEDULE OF POLE EQUIPMENT	
NO.	DESCRIPTION
4	INSULATOR SUSPENSION TYPE 15/25 KV
5	SECONDARY CLEVIS WITH SPOOL INSULATOR
6	RIGID CONDUIT RISER WITH END FITTING, 5" UNLESS OTHERWISE INDICATED, WITH LENGTH AS REQ'D.
9	1/2" TERMINATION, 15/25 KV
10	PRIMARY CONDUCTOR
12	SCREW LAG 1/2" X 4"
14	DOWN GUY, 7 STRAND STEEL, GALVANIZED HIGH STRENGTH GRADE, AS INDICATED
17	GUY FITTING
19	ALUMINUM POLE CAP 15" IN DIA. NAILS IN SIDE ONLY - USE 1-1/4" ALUMINUM NAILS
21	FUSED CUT OUT 15/25 KV
24	POTHEAD MOUNTING BRACKET
26	NO. 4 SOLID COPPER
27	GROUND ROD
28	GROUND ROD CLAMP
29	HALF ROUND WOOD, PLASTIC OR FIBER MOLDING
33	TRI MOUNT BRACKET FOR FUSED CUT-OUTS AND LIGHTNING ARRESTORS
41	STEEL CROSSARM
50	STRAIGHT STRAIN DEADEND CLAMP

- NOTES:
- SCHEDULE ABOVE LISTS THE MAJOR ITEMS OF EQUIPMENT ONLY. ALL OTHER EQUIPMENT NECESSARY FOR PURPOSE INDICATED SHALL BE PROVIDED UNDER THIS CONTRACT.
 - RISER CONDUIT (POLE EQUIPMENT ITEM NO. 8) SHALL BE RIGID STEEL CONDUIT UP TO 9 FEET ABOVE GROUND LEVEL, BUT MAY BE SCHEDULE 40 PVC THEREAFTER.

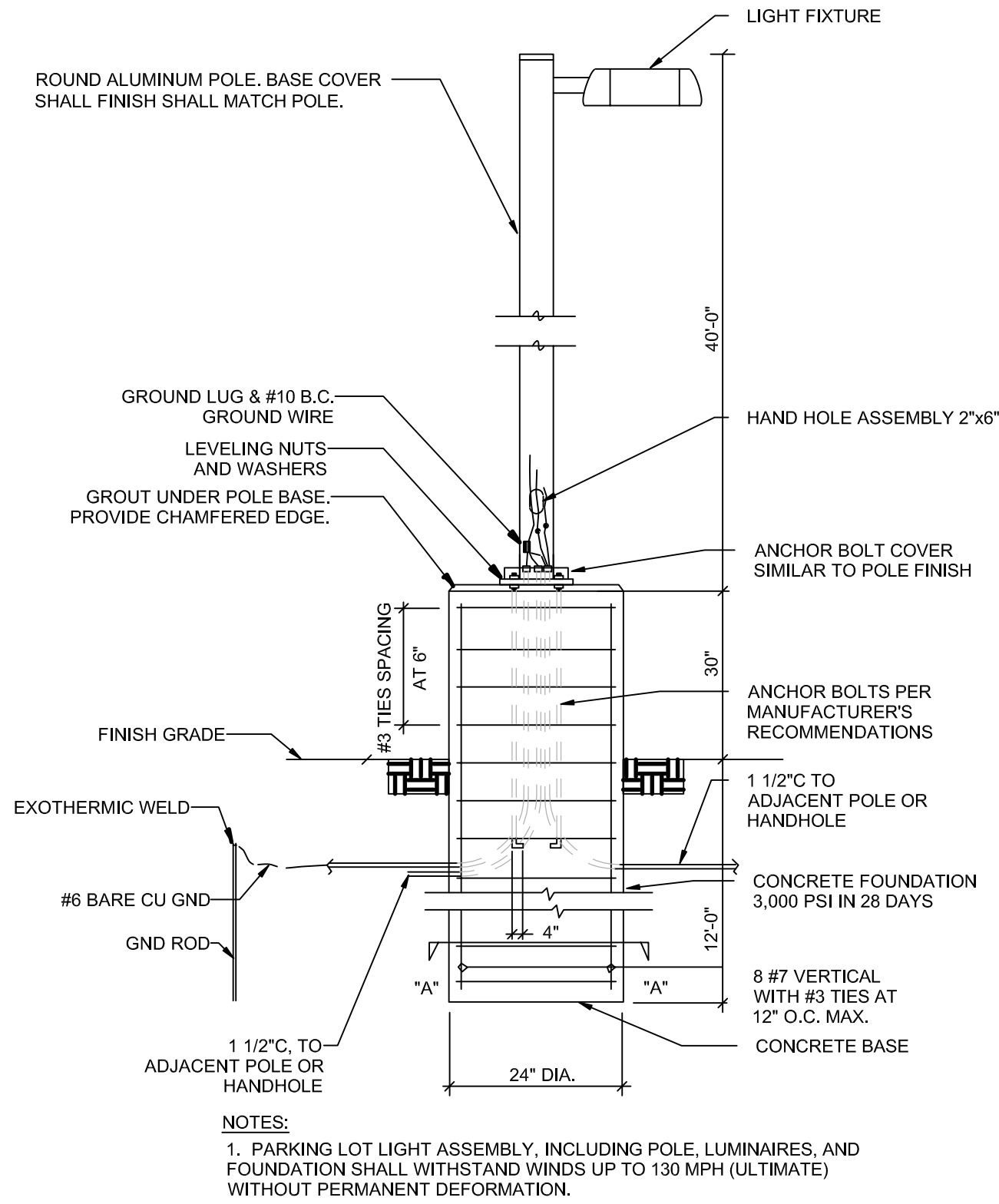
1 RISER POLE DETAIL
E-500 SCALE: NOT TO SCALE



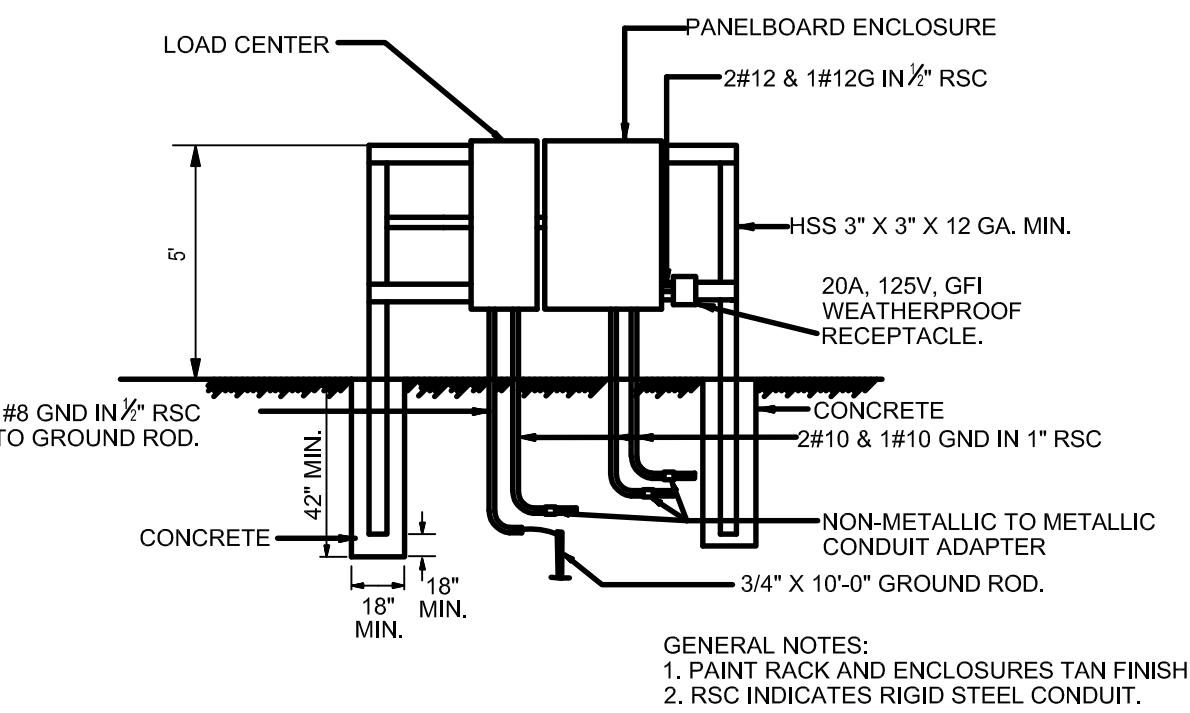
2 TRANSFORMER PAD DETAIL
E-500 SCALE: NOT TO SCALE



3 GROUNDING DETAIL AT THE PAD MOUNTED TRANSFORMER
E-500 SCALE: NOT TO SCALE



4 POLE BASE DETAIL - PARKING LOT LUMINARIES
E-500 SCALE: NOT TO SCALE



5 RACK MOUNTED EQUIPMENT DETAIL
E-500 SCALE: NOT TO SCALE

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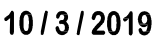
SHEET CONTENTS:

ELECTRICAL DETAILS

SHEET NUMBER:

E-500

xxx



1218 KIZZER LANE
JAL, NEW MEXICO 88252

10-3-19

D: FOR CONSTRUCTION

X

0.0	0.0	0.0	0.0	0.0	15.0	CONNECTED KVA	15.0
0.0	0.0	0.0	0.0	0.0	18.8	DEMAND KVA	18.8
						DEMAND AMPS	23

0.0	0.0	0.0	0.0	0.0	1.8	CONNECTED KVA	1.8
0.0	0.0	0.0	0.0	0.0	2.3	DEMAND KVA	2.3
						DEMAND AMPS	3

0.0	13.5	0.0	1.6	0.5	0.7	CONNECTED KVA	16.3
0.0	13.5	0.0	1.8	0.5	0.8	DEMAND KVA	16.6
						DEMAND AMPS	80

0.2	0.0	0.0	50.6	0.0	0.0	CONNECTED KVA	50.8
0.2	0.0	0.0	59.4	0.0	0.0	DEMAND KVA	59.6
						DEMAND AMPS	72

GENERAL NOTES

1. ANY ALTERNATE FIXTURES TO THE ONES LISTED ABOVE ARE SUBJECT TO APPROVAL BY ENGINEER.

GENERAL NOTES

1. ANY ALTERNATE FIXTURES TO THE ONES LISTED ABOVE ARE SUBJECT TO APPROVAL BY ENGINEER.

D

C

B

A

FEEDER SCHEDULE			
FEEDER MARK	PHASE & NEUTRAL	GND	# OF SET
20	12	12	1
30	10	10	1
40	8	10	1
50	6	10	1
60	4	10	1
70	4	8	1
80	3	8	1
90	2	8	1
100	1	8	1
110	1	6	1
125	1	6	1
150	1/0	6	1
175	2/0	6	1
200	3/0	6	1
225	4/0	4	1
250	250	4	1
300	350	4	1
350	500	2	1
400	3/0	2	2
450	4/0	2	2
500	250	2	2
600	350	1/0	2
700	500	1/0	2
800	300	1/0	3
1000	400	2/0	3
1200	350	3/0	4
1600	400	4/0	5
2000	500	500	6
2500	500	500	7
3000	500	500	8

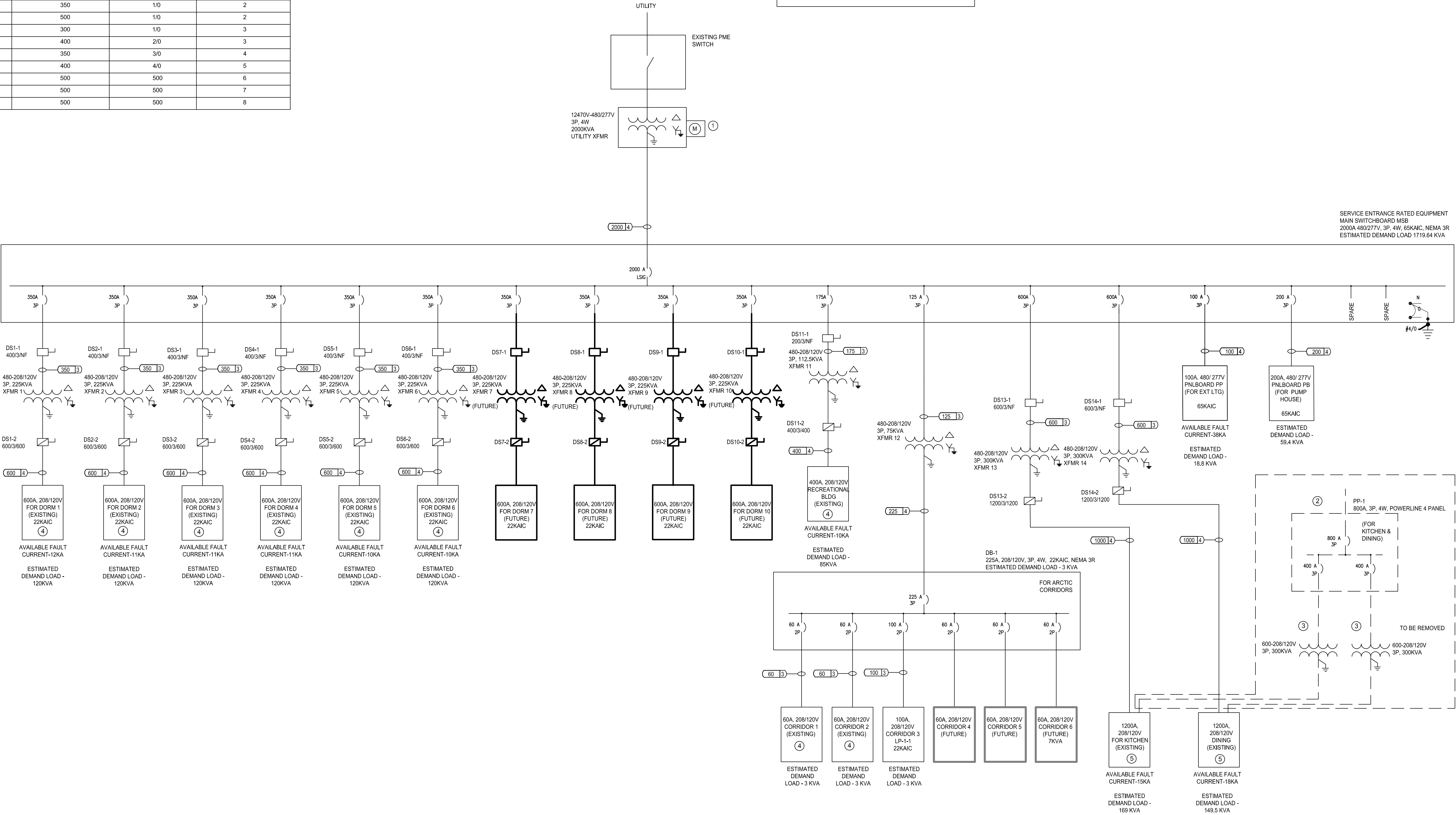
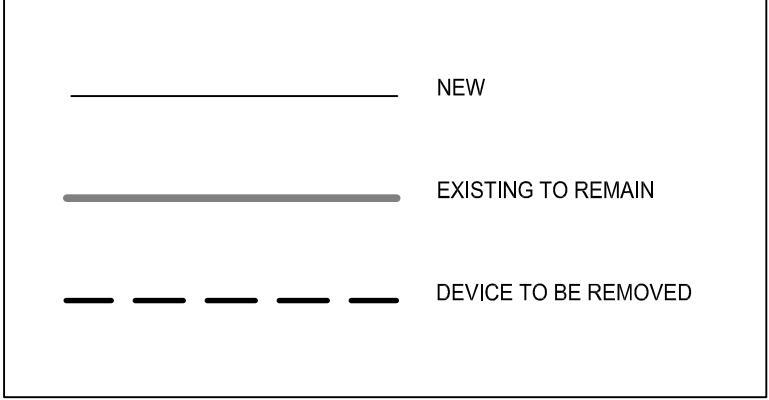
TRANSFORMER SCHEDULE					
KVA RATING	PRIMARY		SECONDARY		GROUND
	BREAKER	FEEDER	BREAKER	FEEDER	
75	125/3	3#1/0, 1#6G	225/3	4#4/0, 1#2G	#2
112.5	175/3	3#2/0, 1#6G	400/3	2 [4#3/0, 1#4G]	#1/0
150	300/3	3#350, 1#4G	500/3	2 [4#250, 1#2G]	#1/0
225	350/3	3#500, 1#2G	600/3	2 [4#350, 1#1/0G]	#2/0
300	600/3	2 [3#350, 1#1/0G]	1000/3	3 [4#400, 1#2/0G]	#4/0

GENERAL NOTES

- ALL METERING ENCLOSURES AND EQUIPMENT SHALL BE INSTALLED PER UTILITY REQUIREMENTS.
- PROVIDE ARC FLASH LABELING FOR ALL NEW EQUIPMENT AS REQUIRED PER NEC ARTICLE 110.16 AND NFPA-70E.
- UTILIZE COMPRESSION TYPE TERMINATIONS FOR ALL ALUMINUM CONDUCTOR TERMINATIONS. PROVIDE COMPLETE SUBMITTAL INFO FOR THE TERMINATIONS FOR APPROVAL PRIOR TO PURCHASE.

KEYNOTES

- ALL METERING ENCLOSURES AND EQUIPMENT SHALL BE INSTALLED PER UTILITY REQUIREMENTS.
- DE-ENERGIZE EXISTING PANELBOARD PP-1 AND REMOVE ALL FEEDERS.
- DE-ENERGIZE EXISTING TRANSFORMER AND REMOVE ALL FEEDERS.
- PROVIDE FEEDER AND CONNECTION TO EXISTING PANELBOARD, COORDINATE LOCATION AND EXISTING CONDITIONS WITH THE EXISTING MODULAR FACILITIES.
- PROVIDE NEW FEEDERS AND CONNECTION TO EXISTING PANELBOARDS AFTER REMOVAL OF EXISTING FEEDERS.



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SHEET CONTENTS:

ONE-LINE DIAGRAM

SHEET NUMBER: