OGDEN SCHOOL DISTRICT
OGDEN HIGH SCHOOL BASEBALL FIELD RENOVATION
2828 HARRISON BLVD.
OGDEN, UT 84403

CONSTRUCTION DOCUMENTS DRAWINGS
AUGUST 18, 2022

ABBREVIATIONS

AC	AIR CONDITIONING	LAB	LABORATORY
AFF	ABOVE FINISH FLOOR	LAV	LAVATORY
ALT	ALTERNATE	MAINT	MAINTENANCE
ALUM	ALUMINUM	MAX	MAXIMUM
APPROX	APPROXIMATE	MECH	MECHANICAL
ARCH	ARCHITECTURAL	MEZZ	MEZZANINE
BD	BOARD	MFR	MANUFACTURER
BLDG	BUILDING	MH	MANHOLE
BLKG	BLOCKING	MIN	MINIMUM
BO	BOTTOM OF	MISC	MISCELLANEOUS
BOT	BOTTOM	MO	MASONRY OPENING
BRB	BUCKLING RESTRAINED BRACE	NIC	NOT IN CONTRACT
BRG	BEARING	NO	NUMBER
CB	CATCH BASIN	NOM	NOMINAL
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED	NTS	NOT TO SCALE
CIP	CAST-IN-PLACE	OC	ON CENTER
CJ	CONTROL JOINT	OD	OUTSIDE DIAMETER
CL	CENTER LINE	OFOI	OWNER FURNISHED OWNER INSTALLED
CLG	CEILING	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
CLR	CLEAR	OH	OVERHEAD
CMU	CONCRETE MASONRY UNIT	OH DR	OVERHEAD DOOR
CO	CLEANOUT, CLEAR OPENING	OPP	OPPOSITE
COL	COLUMN	PERP	PERPENDICULAR
COMM	COMMUNICATION	PL	PLATE, PROPERTY LINE
CONC	CONCRETE	PLAM	PLASTIC LAMINATE
CONF	CONFERENCE	PLBG	PLUMBING
CONST	CONSTRUCT, CONSTRUCTION	PLYWD	PLYWOOD
CONT	CONTINUOUS	PR	PAIR
COORD	COORDINATE	PREFAB	PREFABRICATED
CORR	CORRIDOR	QTY	QUANTITY
CTR	CENTER	RD	ROOF DRAIN
DB	DECK BEARING ELEVATION	RE:	REFER TO
DEMO	DEMOLITION	REINF	REINFORCE, REINFORCING
DF	DRINKING FOUNTAIN	REQD	REQUIRED
DIA	DIAMETER	REF	REFRIGERATOR
DIAG	DIAGONAL	RM	ROOM
DIM	DIMENSION	RO	ROUGH OPENING
DN	DOWN	RTU	ROOF TOP UNIT
DR	DOOR	RV	ROOF VENT
DTL	DETAIL	SF	SQUARE FEET
DWG	DRAWING	SIM	SIMILAR
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	SPEC	SPECIFICATION
EJ	EXPANSION JOINT	SQ	SQUARE
EL	ELEVATION	STD	STANDARD
ELEC	ELECTRICAL	STL	STEEL
ELEV	ELEVATOR	STRUCT	STRUCTURAL
EQ	EQUAL	SUSP	SUSPENDED
EQUIP	EQUIPMENT	THK	THICK, THICKNESS
EWC	ELECTRICAL WATER COOLER	TO	TOP OF
EXP	EXPANSION	TOB	TOP OF BEAM
EXT	EXTERIOR	TOD	TOP OF DECK
FD	FLOOR DRAIN	TOS	TOP OF SLAB, TOP OF STRUCTURE
FEC	FIRE EXTINGUISHER CABINET	TOW	TOP OF WALL
FIN	FINISH	TYP	TYPICAL
FIN FLR	FINISH FLOOR	UNO	UNLESS NOTED OTHERWISE
FLR	FLOOR	VCT	VINYL COMPOSITION TILE
FT	FOOT, FEET	VERT	VERTICAL
GA	GAUGE, GAGE	VEST	VESTIBULE
GI	GALVANIZED IRON	VTR	VENT THROUGH ROOF
GLULAM	GLUED-LAMINATED TIMBER	W/	WITH
GYP BD	GYPSUM BOARD	W/O	WITHOUT
HVAC	HEATING, VENTILATION, AIR CONDITIONING	WC	WATER CLOSET
ID	INSIDE DIAMETER	WD	WOOD
INT	INTERIOR	W	WIDE FLANGE
ISO	ISOMETRIC	WH	WATER HEATER
JAN	JANITOR	WWF	WELDED WIRE FABRIC
JT	JOINT	XFMR	TRANSFORMER
KD	KNOCK DOWN		

GENERAL SYMBOLS

SEE PLUMBING, MECHANICAL AND ELECTRICAL FOR DISCIPLINE SYMBOLS

A 1 01 — MHTN SHEET NUMBER: Sheet Number Sequence, Sheet Type, Discipline

GRID REFERENCE MARK — A1 Starts at lower left corner Number Horizontal Letters Vertical

CEILING TYPE TAG

CEILING TAG (10'-0")

SPOT ELEVATION (EL: 100'-0")

VERTICAL ELEVATION (LEVEL ELEVATION)

NORTH ARROW

DRAWING REVISION, REVISION NUMBER

ROOM NAME, ROOM NUMBER, ROOM VOLUME / AREA (ROOM 101 150 SF)

KEYED NOTES

CASEWORK TYPE: DEPTH, HEIGHT, WIDTH

WINDOW TYPE

SIGNAGE TYPE

BUILDING SECTION — SHEET WHERE DRAWN (SIM, A101)

WALL SECTION — SHEET WHERE DRAWN (SIM, A101)

DETAIL — SHEET WHERE DRAWN (A101)

EXTERIOR ELEVATION — SHEET WHERE DRAWN (A101)

CALLOUT — SHEET WHERE DRAWN (SIM, A101)

INTERIOR ELEVATION — SHEET WHERE DRAWN (A101)

DOOR NUMBER

INTERIOR WALL TYPE: CORE MATERIAL, CORE THICKNESS, FIRE RATING, IF NEEDED, HEIGHT & STC, QUALIFIER, IF NEEDED, THICKNESS (MIL), IF OTHER THAN 30 MIL (20 GA), STUD SPACING, IF OTHER THAN 16" OC

EXTERIOR WALL TYPE, ROOF TYPE, FLOOR TYPE (E1)

PROJECT DATA

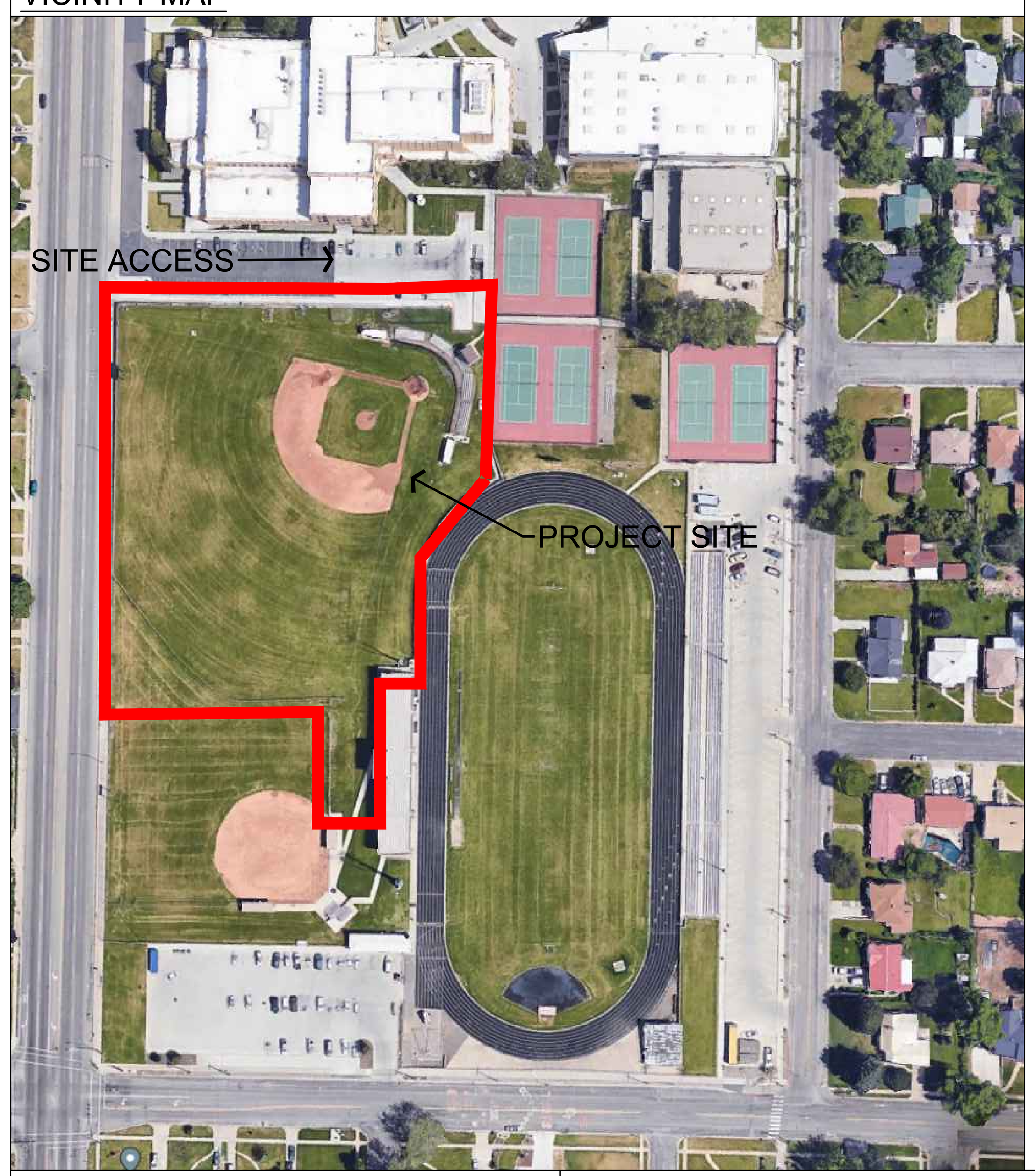
CIVIL RIGHTS	YEAR
AMERICAN DISABILITY ACT (ADA) STANDARD FOR ACCESSIBLE DESIGN	2010

APPLICABLE CODES	YEAR
INTERNATIONAL BUILDING CODE (IBC)	2018
INTERNATIONAL MECHANICAL CODE (IMC)	2018
INTERNATIONAL PLUMBING CODE (IPC)	2018
INTERNATIONAL CONSERVATION CODE (IECC)	2018
NATIONAL ELECTRIC CODE (NEC)	
OCCUPANCY CLASSIFICATION	E
CONSTRUCTION TYPE	V-B
FULLY SPRINKLED	NO

S-1 OCCUPANCY (NON-SEPERATED USE)	
BASIC ALLOWABLE AREA	9,500 SQ. FT.
ACTUAL FLOOR AREA	1,080 SQ. FT.
ALLOWABLE AREA PER FLOOR	9,500 SQ. FT.

FIRE-RESISTIVE REQUIREMENTS	TYPE: VB
STRUCTURAL FRAME	0
BEARING WALLS EXTERIOR	0
BEARING WALLS INTERIOR	0
NONBEARING WALLS EXTERIOR	0
NONBEARING WALLS INTERIOR	0
FLOOR- CEILING CONSTRUCTION	0
ROOF- CEILING CONSTRUCTION	0
SHAFTS	N/A

VICINITY MAP



INDEX TO DRAWINGS - CONSTRUCTION DOCUMENTS

GENERAL NOTES

1. CONSTRUCT ALL SCORE JOINTS FROM THE ARCHITECTURAL SITE PLAN.
2. CONTRACTOR SHALL REVIEW ALL EXPANSION JOINT LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
3. INSTALL EXPANSION JOINTS @ 30'-0" O.C. MAX. THROUGHOUT.
4. SCORE JOINTS IN PAVING ARE TO MATCH THE PAVING WIDTH TYPICAL, UNLESS NOTED OR SHOWN OTHERWISE.
5. COORDINATE ALL SITE LIGHTING FIXTURE LOCATIONS WITH THE LANDSCAPE DRAWINGS. ALL SUCH LIGHTING SHALL BE STAKED FOR APPROVAL BY THE ARCHITECT PRIOR TO CONSTRUCTION.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY ITEMS OR UTILITIES NOT NOTED TO BE REMOVED AND SHALL BEAR THE COST OF REPAIR TO ORIGINAL CONDITION.
7. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES NOT NOTED TO BE REMOVED AND REPAIR TO EXISTING CONDITION AT NO ADDITIONAL COST TO THE OWNER.
8. ALL CONSTRUCTION OPERATIONS SHALL NOT INTERFERE WITH OPERATIONS OF OR ACCESS TO FACILITIES UNLESS AGREED TO BY OWNER. NOR RESTRICT ACCESS ON THE PUBLIC R.O.W. TEMPORARY ENTRY CLOSURE TO BE APPROVED IN WRITING BY THE OWNER AND LOCAL JURISDICTION. COORDINATE ALL DEMOLITION WORK AND TIMES WITH THE OWNER.
9. THIS CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL EXISTING PLANT MATERIAL AND LANDSCAPE NOT SHOWN TO BE REMOVED. INSTALL A TEMPORARY FENCE AROUND THE DRIP LINE OF ALL TREES WHEN REQUIRED.
10. MAINTAIN AND PROTECT AS MUCH OF THE EXISTING IRRIGATION SYSTEM AS POSSIBLE AND FEASIBLE AND STILL PROVIDE FOR FULL COVERAGE OF THE ENTIRE AREA. KEEP ALL LAWN AREA HEADS ON A SEPARATE CIRCUIT FROM SHRUB AREA HEADS.
11. THE EXISTING IRRIGATION SYSTEM TO REMAIN IN USE SHALL BE PATCHED AND REPAIRED AS NECESSARY. MAINTAIN OPERATION OF THE EXISTING SYSTEM AS REQUIRED TO PROTECT EXISTING PLANT MATERIAL.
12. ANY QUESTIONS OR CONDITIONS WHICH ARE ENCOUNTERED THAT ARE NOT COVERED OR ARE IN CONFLICT WITH THE DOCUMENTS NEED TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR RESOLUTION PRIOR TO COMMENCEMENT OF WORK.
13. ALL DEMOLISHED OR REMOVED MATERIALS SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR.
14. THE CONTRACTOR SHALL PROTECT ADJACENT CONSTRUCTION AND KEEP FREE FROM DAMAGE, ALL DAMAGE TO EXISTING AREAS WILL BE REPAIRED BY THE CONTRACTOR AT THEIR COST.
15. CONTRACTOR IS TO CLEAN ALL AREAS AFFECTED BY CONSTRUCTION WORK TO THE SATISFACTION OF THE OWNER AND ARCHITECT.
16. ALL DAMAGED AREAS ARE TO BE REPLACED TO MATCH EXISTING FINISH AND MATERIAL.
17. IT IS THE RESPONSIBILITY OF THE CONTRACTOR, SUB-CONTRACTOR OR ANY ASSIGNEES TO ASSURE ALL WORK, INCLUDING SHOP DRAWINGS, MEET THE INTENT OF ALL APPLICABLE CODES AS NOTED ON COVER SHEET.
18. DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED A COMPLETE SET. ALL PARTIES ARE RESPONSIBLE TO COMPLY WITH BOTH AS ONE SET OF DOCUMENTS, INCASE OF CONFLICTING INFORMATION THE MOST RESTRICTIVE CONDITION SHALL PREVAIL- NOTIFY ARCHITECT FOR FINAL RESOLUTION OF CONFLICTS.
19. DO NOT SCALE THE DRAWINGS.

DEMOLITION NOTES

1. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK AND TIMES WITH THE OWNER.
2. THIS CONTRACTOR SHALL BE RESPONSIBLE TO ASCERTAIN THE LOCATIONS OF ALL UTILITIES AND PROTECT THE SAME.
3. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY ITEMS OR UTILITIES NOT NOTED TO BE REMOVED AND SHALL BEAR THE COST OF REPAIR TO ORIGINAL CONDITION.
4. ALL IRRIGATION HEADS REMOVED SHALL BE RETURNED TO THE OWNER.
5. SAW CUT AND REMOVE CONCRETE PAVING FROM JOINT TO JOINT.

LIST OF BID ALTERNATES

BID ALTERNATE NO. 1:
1. DEMOLISH AND REMOVE EXISTING ANNOUNCER BOOTH BUILDING AND ALTER EXISTING ASSOCIATED SITE UTILITIES.
2. PROVIDE ANNOUNCER BOOTH BUILDING AND ASSOCIATED SITE UTILITIES INDICATED

BID ALTERNATE NO. 2:
1. PROVIDE SYNTHETIC GRASS SURFACE AT INFIELD AREAS INDICATED IN LIEU OF TURFGRASS SOD AND INFIELD SOILS

BID ALTERNATE NO. 3:
1. PROVIDE CHAIN LINK FENCE FABRIC AT BACKSTOP IN LIEU OF TENSION BALL SAFETY NETTING.

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280 SOUTH 400 WEST
SALT LAKE CITY, UTAH 84101
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LANDSCAPE
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STATE OF UTAH — VINCENT RULON OLCOTT — No. 4812865 — 08-18-2022 — LICENSED LANDSCAPE ARCHITECT

CIVIL
GALLOWAY & COMPANY, INC
172 N EAST PROMONTORY STE 274
FARMINGTON, UTAH 84025
PHONE: (801) 953-1357

REGISTERED PROFESSIONAL ENGINEER — No. 5339572 — CHRISTIAN MICHAELSON — 8/18/2022 — STATE OF UTAH

STRUCTURAL
REAVELEY ENGINEERS & ASSOCIATES
515 EAST 100 SOUTH STE 1200
SALT LAKE CITY, UTAH 84102
PHONE: (801) 486-3883

PROFESSIONAL STRUCTURAL ENGINEER — JUSTIN D. NADAULD — STATE OF UTAH — 08/18/2022

ELECTRICAL
BNA CONSULTING
4225 LAKE PARK BLVD STE 275
WEST VALLEY CITY, UTAH 84120
PHONE: (801) 532-2196

PROFESSIONAL ENGINEER — 8/18/2022 — BRIAN HICKS — STATE OF UTAH

MECHANICAL
OLSEN & PETERSON
CONSULTING ENGINEERS INC.
14 EAST 2700 SOUTH
SOUTH SALT LAKE, UTAH 84115
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LICENSED PROFESSIONAL ENGINEER — #334524-2202 — JAMES AUSTIN BERRETT — 8/18/2022 — UTAH

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OGDEN SCHOOL DISTRICT
OGDEN HIGH SCHOOL BASEBALL FIELD RENOVATION
2828 HARRISON BLVD
OGDEN, UT 84403

SEAL

STATE OF UTAH — CLIFFORD HOWARD CURTIS — No. 7394786-0301 — 18 AUGUST 2022 — LICENSED ARCHITECT

MHTN PROJECT NO. 2022539

VIEW AND PRINT THIS DRAWING IN COLOR

Original drawing is 30 x 42. Do not scale contents of this drawing.

REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

NO. △	DATE	DESCRIPTION
NO.	DATE	DESCRIPTION

ISSUE
CONSTRUCTION DOCUMENTS
AUG. 18, 2022

SHEET NAME
COVER SHEET

SHEET NUMBER
G000

RETURN TO INDEX

OGDEN SCHOOL DISTRICT

OGDEN HIGH SCHOOL BASEBALL FIELD RENOVATION

LOCATED IN THE WEST HALF OF THE WEST HALF OF THE NORTHWEST QUARTER OF SECTION 34,
TOWNSHIP 6 NORTH, RANGE 1 WEST, SALT LAKE BASE AND MERIDIAN, U.S. SURVEY
OGDEN CITY, WEBER COUNTY, UTAH

CONSTRUCTION DOCUMENTS DRAWINGS

AUGUST 18, 2022

DESIGN CONTACTS

DEVELOPER/APPLICANT
OGDEN CITY SCHOOL DISTRICT
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TEL: (801) 737-7376
ATTN: KEN CRAWFORD

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MHTN ARCHITECTS
280 SOUTH 400 WEST, SUITE 250
SALT LAKE CITY, UT 84101
TEL: (801) 595-6700
ATTN: CLIFF CURTIS, AIA, AALE

LANDSCAPE ARCHITECT
MHTN ARCHITECTS
280 SOUTH 400 WEST, SUITE 250
SALT LAKE CITY, UT 84101
TEL: (801) 326-3232
ATTN: VINCE OLCOTT, ASLA

CIVIL ENGINEER
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172 N. PROMONTORY, SUITE 274
FARMINGTON, UT 84025
TEL: (303) 721-5030
ATTN: DEVIN LUJAN, PE
ATTN: CHRISTIAN MICHAELSON, PE

SURVEYOR
GALLOWAY & COMPANY
172 N. PROMONTORY, SUITE 274
FARMINGTON, UT 84025
TEL: (801) 476-0202
ATTN: TROY KENDALL

GEOTECHNICAL
GSH GEOTECHNICAL, INC.
1596 WEST 2650 SOUTH
OGDEN, UTAH 84401
TEL: *801) 393-2012
ATTN: ANDREW M. HARRIS, P.E.

CITY CONTACTS

PLANNING
OGDEN CITY PLANNING DIVISION
2549 WASHINGTON BLVD, #140
OGDEN, UT 84401
TEL: (801) 629-8930

ENGINEERING DEPARTMENT
OGDEN CITY ENGINEERING DIVISION
2549 WASHINGTON BLVD, #760
OGDEN, UT 84401
TEL: (801) 629-8980

BUILDING DEPARTMENT
OGDEN BUILDING SERVICES DIVISION
2549 WASHINGTON BLVD, #240
OGDEN, UT 84401
TEL: (801) 629-8950

FIRE DEPARTMENT
OGDEN CITY FIRE DEPARTMENT
2186 LINCOLN AVE.
OGDEN, UT 84401
TEL: (801) 629-8069

UTILITY CONTACTS

POWER
ROCKY MOUNTAIN POWER
TEL: (503) 813-6993

WATER
OGDEN CITY
TEL: (801) 629-8363

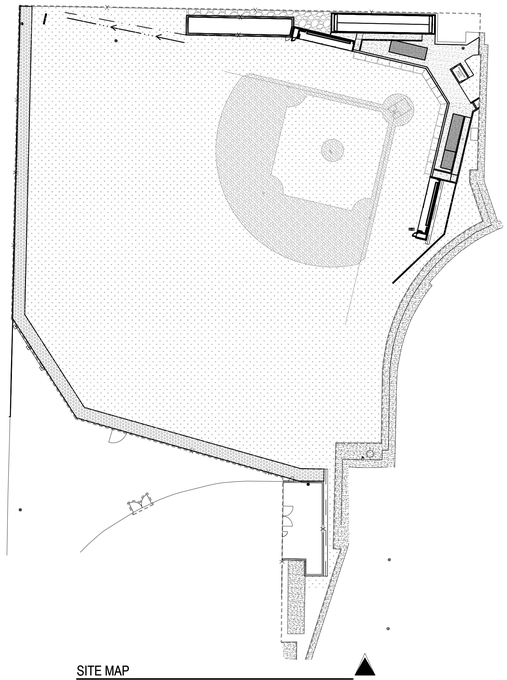
SECONDARY WATER
PINEVIEW WATER SYSTEMS
TEL: (801) 622-4351

SANITARY SEWER
OGDEN CITY
TEL: (801) 629-8363

GAS
DOMINION ENERGY
TEL: (801) 324-3970

STORM DRAIN
OGDEN CITY
TEL: (801) 629-8363

TELECOMMUNICATIONS
COMCAST
TEL: (801) 485-0500



SITE MAP
1"=50'
N

VICINITY MAP
NTS
N

SHEET LIST TABLE

Sheet Number	Sheet Title
CV100	Cover
CV101	Notes
CD100	Demolition Plan
CS100	Base Bid Site Plan
CS101	Bid Alternate Site Plan
CS500	Site Details
CG100	Base Bid Grading Plan
CG101	Base Bid Enlarged Grading Plan
CG102	Bid Alternate Grading Plan
CG103	Bid Alternate Enlarged Grading
CU100	Base Bid Utility Plan
CU101	Bid Alternate Utility Plan
CU500	Utility Details
CU501	Utility Details

FEMA FLOOD ZONE

PER FIRMETTE 49057C0429F, EFFECTIVE 6/2/2015;

THIS PROPERTY RESIDES IN FEMA FLOOD ZONE X

BENCHMARK

CL MONUMENT IN 29TH & HARRISON WITH AN ELEVATION OF 4524.75' USING NAVD88 VERTICAL DATUM

BASIS OF BEARING

THE BASIS OF BEARING OF S1°18'40"W BETWEEN CL MONUMENT IN 29TH STREET & HARRISON AND CL MONUMENT IN 30TH & HARRISON.

NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.

SURVEYOR TO OBTAIN AUTOCAD FILE FROM ENGINEER AND VERIFY ALL HORIZONTAL CONTROL DIMENSIONING PRIOR TO CONSTRUCTION STAKING. SURVEYOR MUST VERIFY ALL BENCHMARK, BASIS OF BEARING AND DATUM INFORMATION TO ENSURE IMPROVEMENTS WILL BE AT THE SAME HORIZONTAL AND VERTICAL LOCATIONS SHOWN ON THE DESIGN CONSTRUCTION DRAWINGS. PRIOR TO CONSTRUCTION STAKING ANY DISCREPANCY MUST BE REPORTED TO OWNER AND ENGINEER PRIOR TO CONTINUATION OF ANY FURTHER STAKING OR CONSTRUCTION WORK.

NOTE: CONTRACTOR MUST COORDINATE WORK WITH UTILITY COMPANY AND CITY PRIOR TO BEGINNING WORK AND IS RESPONSIBLE FOR ALL MATERIALS, LABOR, REPAIRS, PERMITS, ETC. TO COMPLETE WORK AND RESTORE AREA TO SAME STATE PRIOR TO STARTING WORK

CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL INFORMATION FOR FINAL ACCEPTANCE OF WORK FOR ANY LOCAL, STATE OR FEDERAL AGENCY, UTILITY DISTRICT OR ANY OTHER AGENCY OR DISTRICT HAVING APPROVAL AUTHORITY OVER WORK. THIS INFORMATION MAY INCLUDE, BUT IS NOT LIMITED TO, AS-BUILT PLANS, CERTIFICATIONS, INSPECTIONS AND REPORTS.

CAUTION - NOTICE TO CONTRACTOR

1. ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.

811 Know what's **below.** **Call** before you dig.

2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION AND SIZE OF SUCH EXISTING UTILITY, EITHER THROUGH POTHOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.

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SEAL

REGISTERED PROFESSIONAL ENGINEER
No. 5339572
CHRISTIAN MICHAELSON
8/18/2022
STATE OF UTAH

MHTN PROJECT No. 2022539

VIEW AND PRINT THIS DRAWING IN COLOR

Original drawing is 30 x 42. Do not scale contents of this drawing.

REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

NO	DATE	DESCRIPTION

ISSUE
CONSTRUCTION DOCUMENTS
AUG. 18, 2022

SHEET NAME
COVER

SHEET NUMBER
CV100

RETURN TO INDEX

DEMOLITION NOTES

1. ALL DEMOLITION TO BE IN ACCORDANCE WITH STATE, LOCAL, AND FEDERAL REQUIREMENTS.
2. CONTRACTOR TO OBTAIN ALL PERMITS AND LICENSES REQUIRED FOR DEMOLITION OF WORK SHOWN.
3. CONTRACTOR TO OBTAIN ALL STATE AND CITY STORM WATER DISCHARGE AND EROSION CONTROL PERMITS PRIOR TO ANY DISTURBANCE AND/OR GRADING ACTIVITY.
4. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MINIMIZING DEPOSITION OF ONSITE SEDIMENTS ONTO SURROUNDING PROPERTIES AND PUBLIC STREETS DURING CONSTRUCTION, MAINTAINING SWPPP DOCUMENTS, FILING NOI AND NOT. REFER TO EROSION CONTROL PLANS AND DETAILS FOR ADDITIONAL INFORMATION.
5. ALL UNDERGROUND STORM SEWER, WATER, AND SANITARY SEWER MAIN LOCATIONS ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY.
6. ALL UNDERGROUND GAS AND ELECTRIC UTILITY INFORMATION SHOWN IS BASED ON MAPS PROVIDED BY UTILITY COMPANY AND ARE TO BE CONSIDERED AS AN APPROXIMATE LOCATION ONLY BASED ON SAID MAPS.
7. CONTRACTOR TO VERIFY ALL UTILITY SERVICE LOCATIONS AND EXISTING SITE CONDITIONS PRIOR TO PROCEEDING. ANY SITE CONDITIONS THAT ARE NOT AS SHOWN MUST BE REPORTED TO THE OWNER'S REPRESENTATIVE PRIOR TO BID.
8. CONTRACTOR TO REMOVE OR RELOCATE EXISTING UTILITIES PER UTILITY COMPANY REQUIREMENTS.
9. CONTRACTOR TO ERECT BARRIERS, FENCES, GUARDRAILS, ENCLOSURES, ETC. TO PROTECT SITE. THE PROTECTION PLAN MUST BE REVIEWED BY THE OWNERS REPRESENTATIVE PRIOR TO PROCEEDING.
10. OWNERS REPRESENTATIVE WILL DETERMINE WHEN CONDITIONS ARE SUITABLE TO COMMENCE WORK. CONTRACTOR TO VERIFY AREAS TO BE DEMOLISHED ARE UNOCCUPIED AND NOT IN USE.
11. TRANSPORT AND LEGALLY DISPOSE OF DEBRIS IN AREA LAWFUL CONSTRUCTION DEBRIS FACILITY. DO NOT STORE OR BURN MATERIALS ON SITE.
12. REMOVE ALL ASPHALT, TREES, POSTS AND OTHER IMPROVEMENTS UNLESS THE ITEM IS SPECIFIED TO REMAIN.
13. SEE PROJECT DOCUMENTS FOR EXISTING ITEMS TO BE SALVAGED AND OTHER REQUIREMENTS PERTAINING TO THE SALVAGE THEREOF.
14. REMOVE ALL EXISTING FOUNDATION WALLS AND FOOTINGS COMPLETELY UNLESS OTHERWISE NOTED OR SPECIFIED.
15. ANY FILL MATERIAL REQUIRED TO BRING THE SITE TO GRADE SHALL CONSIST OF CLEAN ENGINEERED FILL IN ACCORDANCE WITH THE PROJECT DOCUMENTS AND APPROVED BY THE CIVIL AND GEOTECHNICAL ENGINEERS
18. ANY FILL MATERIAL IN OLD BASEMENTS, CESSPOOLS, AND OTHER LARGE EXCAVATED AREAS SHALL CONSIST OF CLEAN ENGINEERED FILL, IN ACCORDANCE WITH THE PROJECT DOCUMENTS AND APPROVED BY THE CIVIL AND GEOTECHNICAL ENGINEERS.
19. ALL FILL MATERIAL SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT RECOMMENDATIONS. GRADE TO MATCH EXISTING OR PROPOSED FINISHED GRADE.
20. THE USE OF EXPLOSIVES IS NOT ALLOWED.

GENERAL CONSTRUCTION NOTES

1. REQUIREMENTS SHOWN ON SITE PLAN SHALL GOVERN. DRAWINGS AND SPECIFICATIONS SHOWING OTHERWISE NOTWITHSTANDING. CONTRACTOR TO POINT OUT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO BID.
2. NO WORK IS TO BEGIN UNTIL ALL PERMITS HAVE BEEN OBTAINED.
3. SEE THE SITE SURVEY FOR SURVEY INFORMATION & LEGAL DESCRIPTION.
4. VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE. NOTIFY ENGINEER OF ANY DISCREPANCIES.
5. ALL WORK IN PUBLIC RIGHT OF WAY SHALL BE IN ACCORDANCE WITH WEBER COUNTY PUBLIC WORKS STANDARDS.
6. GENERAL CONTRACTOR TO REFER TO STANDARD DETAILS AND INSTALLATION GUIDELINES INCLUDED IN THE SPECIFICATIONS AND PRODUCT INFORMATION FOR INSTALLING EQUIPMENT, INCLUDING PRODUCT DISPENSERS AND REMOTE READ-OUT EQUIPMENT.
7. THIS DESIGN IS BASED ON THE GEOTECHNICAL REPORT NO. 1829-03N-15 DATED SEPTEMBER 16, 2015, BY GSH. A COPY OF THIS REPORT SHOULD BE ON-SITE AT ALL TIMES.
8. REGARDLESS OF DISCLAIMERS IN THE BID, IF THE CONTRACTOR'S EARTHWORK BID ASSUMES EXISTING SITE MATERIAL IS REUSABLE, AND EITHER THE MATERIAL IS NOT APPROVED FOR REUSE OR THE USE OF THE MATERIAL CAUSES DELAYS AND EXTRA COSTS, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE IMPACTS TO COST AND SCHEDULE.
9. ANY FILL MATERIAL REQUIRED TO BRING THE SITE TO GRADE SHALL CONSIST OF CLEAN ENGINEERED FILL IN ACCORDANCE WITH THE PROJECT DOCUMENTS AND APPROVED BY THE CIVIL AND GEOTECHNICAL ENGINEERS.
10. ANY FILL MATERIAL IN OLD BASEMENTS, CESSPOOLS, AND OTHER LARGE EXCAVATED AREAS SHALL CONSIST OF CLEAN ENGINEERED FILL, IN ACCORDANCE WITH THE PROJECT DOCUMENTS AND APPROVED BY THE CIVIL AND GEOTECHNICAL ENGINEERS.
11. ALL FILL MATERIAL SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT RECOMMENDATIONS. GRADE TO MATCH EXISTING OR PROPOSED FINISHED GRADE.
12. FINAL GRADES ARE SUBJECT TO MINOR CHANGE BY COMPANY REPRESENTATIVE. NO GRADE CHANGES IN EXCESS OF 0.04' WITHOUT ENGINEER'S APPROVAL.
13. GENERAL CONTRACTOR TO PROVIDE BARRICADE PROTECTION WITH FLASHING LIGHTS AROUND ALL OFF-SITE EXCAVATIONS AND ALL OFF-SITE WORK.
14. SET PROPERTY CORNER PINS IN CONCRETE. IF PROPERTY CORNERS ARE DESTROYED BY CONTRACTOR, THE CONTRACTOR SHALL BEAR THE EXPENSE OF RELOCATING CORNERS BY A REGISTERED SURVEYOR.
15. CONTRACTOR TO PROVIDE ALL EQUIPMENT AND PERSONNEL REQUIRED FOR FINAL CHECKOUT OF ALL FACILITIES BY OWNER'S REPRESENTATIVE.
16. GENERAL CONTRACTOR TO PERFORM GENERAL YARD AND BUILDING CLEAN-UP AT COMPLETION OF WORK.
17. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MINIMIZING DEPOSITION OF ONSITE SEDIMENTS ONTO SURROUNDING PUBLIC STREETS DURING CONSTRUCTION, MAINTAINING SWPPP DOCUMENTS, FILING NOI AND NOT. REFER TO EROSION CONTROL PLANS AND DETAILS FOR ADDITIONAL INFORMATION.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING AS-BUILT INFORMATION ON A SET OF RECORD DRAWINGS KEPT ON THE CONSTRUCTION SITE, AND AVAILABLE TO THE CITY, ITS AGENTS, OWNER OR GALLOWAY AT ALL TIMES. DIMENSIONS SHALL BE ANNOTATED ON AS-BUILT RECORD DRAWINGS.

GRADING NOTES

1. ELEVATIONS ON THIS PLAN MAY BE EXPRESSED WITH THE FIRST TWO DIGITS TRUNCATED, ADD 4400 OR 4500 TO THESE ELEVATIONS ACCORDINGLY.
2. ALL SPOT GRADES ARE TO FLOWLINE UNLESS OTHERWISE NOTED.
3. PROPOSED FLOWLINE ELEVATION DOES NOT TAKE INTO ACCOUNT GUTTER DEPRESSION AT INLET.
4. ALL TOP OF CURB ELEVATIONS ARE 6" HIGHER THAN FLOWLINE ELEVATIONS SHOWN ON DRIVES UNLESS OTHERWISE NOTED.
5. FINAL GRADES ARE SUBJECT TO MINOR CHANGE BY COMPANY REPRESENTATIVE. NO GRADE CHANGES IN EXCESS OF 0.04' WITHOUT ENGINEER'S APPROVAL
6. GRADING/UTILITY CONTRACTOR TO COMPLETE GRADING BELOW FINISHED GRADE IN ACCORDANCE WITH PAVING RECOMMENDATIONS OF THE GEOTECHNICAL REPORT PREPARED FOR THIS SITE, SHOWN TO TOLERANCE OF ± 0.04' IN ALL PAVING AREAS.
7. ALL LANDSCAPING AREAS SHALL BE GRADED TO WITHIN 0.10' WITH LANDSCAPE ARCHITECT APPROVED TOP SOIL TO A MINIMUM 6" DEPTH OR AS DIRECTED BY THE LANDSCAPE ARCHITECT.
8. CONTRACTOR MUST MAINTAIN RUNNING SLOPE ON ALL SIDEWALKS NO STEEPER THAN 5.0%. THE CROSS-SLOPE FOR ALL SIDEWALKS MUST BE NO STEEPER THAN 2.0%. ALL SIDEWALKS MUST HAVE A MINIMUM CLEAR WIDTH OF 60". ALL ADA RAMPS SHALL HAVE A SLOPE NO STEEPER THAN 8.33%. ADA PARKING SPACES AND REFUGE GRADES SHALL NOT EXCEED 2% IN ANY DIRECTION. IF GRADES ON GRADING PLAN DO NOT MEET THIS REQUIREMENT, NOTIFY ENGINEER IMMEDIATELY.
9. THE CLIENT AND CONTRACTOR SHOULD IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONDITIONS IN THE PROJECT THAT THEY BELIEVE DO NOT COMPLY WITH THE CURRENT STATE OF THE ADA AND FHAA.
10. REQUIREMENTS SHOWN ON SITE PLAN SHALL GOVERN. DRAWINGS AND SPECIFICATIONS SHOWING OTHERWISE NOTWITHSTANDING. CONTRACTOR TO POINT OUT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO BID.
11. THE SITE SHALL BE CLEARED AND GRUBBED OF ALL VEGETATION AND DELETERIOUS MATTER PRIOR TO GRADING.
12. THIS DESIGN IS BASED ON THE GEOTECHNICAL REPORT NO.1829-03N-15 DATED SEPTEMBER 16, 2015, BY GSH LABORATORIES. A COPY OF THIS REPORT SHOULD BE ON-SITE AT ALL TIMES.
16. REGARDLESS OF DISCLAIMERS IN THE BID, IF THE CONTRACTOR'S EARTHWORK BID ASSUMES EXISTING SITE MATERIAL IS REUSABLE, AND EITHER THE MATERIAL IS NOT APPROVED FOR REUSE OR THE USE OF THE MATERIAL CAUSES DELAYS AND EXTRA COSTS, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE IMPACTS TO COST AND SCHEDULE.
17. ANY FILL MATERIAL REQUIRED TO BRING THE SITE TO GRADE SHALL CONSIST OF CLEAN ENGINEERED FILL IN ACCORDANCE WITH THE PROJECT DOCUMENTS AND APPROVED BY THE CIVIL AND GEOTECHNICAL ENGINEERS.
18. ANY FILL MATERIAL IN OLD BASEMENTS, CESSPOOLS, AND OTHER LARGE EXCAVATED AREAS SHALL CONSIST OF CLEAN ENGINEERED FILL, IN ACCORDANCE WITH THE PROJECT DOCUMENTS AND APPROVED BY THE CIVIL AND GEOTECHNICAL ENGINEERS.
19. ALL FILL MATERIAL SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT RECOMMENDATIONS. GRADE TO MATCH EXISTING OR PROPOSED FINISHED GRADE.
20. FILLS SHALL BE BENCHED INTO COMPETENT MATERIAL AS PER SPECIFICATIONS AND GEOTECHNICAL REPORT.
21. ALL TRENCH BACKFILL SHALL BE TESTED AND CERTIFIED BY THE GEOTECHNICAL ENGINEER.
22. A GEOTECHNICAL ENGINEER SHALL PERFORM PERIODIC INSPECTIONS AND SUBMIT A COMPLETE REPORT UPON COMPLETION.
23. THE FINAL COMPACTION REPORT AND CERTIFICATION FROM THE GEOTECHNICAL ENGINEER SHALL CONTAIN THE TYPE OF FIELD TESTING PERFORMED. EACH TEST SHALL BE IDENTIFIED WITH THE METHOD OF OBTAINING THE IN-PLACE DENSITY, WHETHER SAND CONE OR DRIVE RING AND SHALL BE SO NOTED FOR EACH TEST. SUFFICIENT MAXIMUM DENSITY DETERMINATIONS SHALL BE PERFORMED TO VERIFY THE ACCURACY OF THE MAXIMUM DENSITY CURVES USED BY THE FIELD TECHNICIAN.
24. GENERAL CONTRACTOR TO PROVIDE BARRICADE PROTECTION WITH FLASHING LIGHTS AROUND ALL OFF-SITE EXCAVATIONS AND ALL OFF-SITE WORK.
25. CUT AND FILL SLOPES SHALL BE NO STEEPER THAN 2:1 (H:V).
26. TRENCHES SHALL BE SLOPED OR BRACED AND SHEETED AND IN ACCORDANCE WITH OSHA STANDARDS FOR THE SAFETY OF THE WORKERS AND THE PROTECTION OF OTHER UTILITIES, IN COMPLIANCE WITH ALL APPLICABLE STATE AND FEDERAL REQUIREMENTS. FOR ALL EXCAVATION OPERATIONS, SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR.
27. CONTRACTOR TO OBTAIN ALL STATE AND CITY STORM WATER DISCHARGE AND EROSION CONTROL PERMITS PRIOR TO ANY DISTURBANCE AND/OR GRADING ACTIVITY.
28. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MINIMIZING DEPOSITION OF ONSITE SEDIMENTS ONTO SURROUNDING PROPERTIES AND PUBLIC STREETS DURING CONSTRUCTION, MAINTAINING SWPPP DOCUMENTS, FILING NOI AND NOT. REFER TO EROSION CONTROL PLANS AND DETAILS FOR ADDITIONAL INFORMATION.
29. DUST SHALL BE CONTROLLED BY WATERING.CONTRACTOR IS RESPONSIBLE FOR SECURING APPROPRIATE DUST CONTROL PERMITS & PRODUCING FUGITIVE DUST CONTROL PLANS NECESSARY TO DO SO.
30. SET PROPERTY CORNER PINS IN CONCRETE. IF PROPERTY CORNERS ARE DESTROYED BY CONTRACTOR, THE CONTRACTOR SHALL BEAR THE EXPENSE OF RELOCATING CORNERS BY A REGISTERED SURVEYOR.

GENERAL UTILITY NOTES

1. THE CONTRACTOR SHALL NOTIFY THE CITY, COUNTY AND REGULATORY AGENCY 72 WORKING HOURS PRIOR TO BEGINNING CONSTRUCTION.
2. THE CONTRACTOR SHALL HAVE ONE SIGNED COPY OF THE APPROVED PLANS, ONE COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS AND A COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED AT THE JOB SITE AT ALL TIMES.
3. CONTRACTOR SHALL OBTAIN ALL NECESSARY TEMPLATES FROM EQUIPMENT SUPPLIERS AND STUB LINES ACCORDINGLY.
4. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL TAP FEES REQUIRED. OWNER SHALL PAY FOR ALL SPECIAL ASSESSMENTS.
5. CONTRACTOR IS RESPONSIBLE FOR ALL SURFACE RESTORATION (I.E., LANDSCAPE, ASPHALT, CONCRETE, ETC.)
6. ASPHALT / ROAD BASE , ETC. (FOR PAVEMENT CONSTRUCTION) TO BE INSTALLED ABOVE PIPE BACKFILL SHALL BE ACCORDING TO GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT.
7. THE CONTRACTOR SHALL VERIFY THE INVERTS OF THE DOWNSTREAM TIE IN POINTS FOR ALL GRAVITY FLOW UTILITIES PRIOR TO BEGINNING ANY CONSTRUCTION. REPORT ANY DISCREPANCY TO THE ENGINEER.
8. CONTRACTOR TO VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES, WHETHER SHOWN OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY CONFLICTS TO THE ENGINEER.
9. ALL MANHOLE RIM ELEVATIONS GIVEN ON THESE PLANS ARE TO BE CONSIDERED APPROXIMATE. THE CONTRACTOR SHALL SET THE FINAL RIM ELEVATION BASED ON THE COMPLETED FINISH SURFACE.
10. LENGTHS OF PIPES ARE THE HORIZONTAL DISTANCES FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. THEREFORE, LENGTHS SHOWN ARE APPROXIMATE AND COULD VARY DUE TO VERTICAL ALIGNMENT AND STRUCTURE DIMENSIONS.
11. ALL POTABLE WATER MAINS AND SERVICE LINES SHALL BE BURIED AN ABSOLUTE MINIMUM OF 4.5' FROM FINISHED GRADE. THE MAXIMUM BURY SHALL BE 6'. UNLESS ADDITIONAL DEPTH IS REQUIRED FOR UTILITY CROSSINGS OR OTHER CONFLICTS. WHEREVER SUCH CROSSINGS OR CONFLICTS OCCUR, THE OGDEN CITY UTILITY CROSSING DETAIL SHALL BE USED.
12. ALL STORM DRAIN AND SANITARY SEWER PIPES SHALL HAVE A MINIMUM HORIZONTAL SEPARATION OF 10' FROM ALL WATER LINES.
13. WHERE LINES CROSS, THERE SHALL BE A MINIMUM OF 18" CLEAR VERTICAL SEPARATION BETWEEN ALL WATER LINES AND STORM DRAIN, SANITARY SEWER, AND IRRIGATION LINES.
14. ANY STORM DRAIN LINE CROSSING AT LEAST 18" ABOVE A WATER LINE SHALL HAVE JOINTS ENCASED IN CONCRETE PER THE APPROPRIATE CROSSING DETAIL PROVIDED BY THE CITY / PURVEYOR. ANY STORM DRAIN LINE CROSSING LESS THAN 18" ABOVE A WATER LINE SHALL BE FULLY ENCASED IN CONCRETE PER THE APPROPRIATE ENCASEMENT DETAIL PROVIDED BY THE CITY / PURVEYOR.
15. ALL UTILITY LINES SHALL BE BEDDED IN ACCORDANCE WITH CITY / LOCAL PURVEYOR'S STANDARDS AND DETAILS, INCLUDED IN THE PLAN SET. STORM SEWER PIPE SHALL BE BEDDING CLASS "B" UNLESS THE GEOTECHNICAL ENGINEER OR CITY ENGINEER DEEM NECESSARY A CHANGE IN BEDDING CLASS DUE TO SOIL CONDITION.
16. UTILITY TRENCHES SHALL BE SLOPED OR BRACED AND SHEETED AND IN ACCORDANCE WITH OSHA STANDARDS FOR THE SAFETY OF THE WORKERS AND THE PROTECTION OF OTHER UTILITIES, IN COMPLIANCE WITH ALL APPLICABLE STATE AND FEDERAL REQUIREMENTS. FOR ALL EXCAVATION OPERATIONS, SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR.

PRIVATE WATER CONSTRUCTION NOTES

1. ALL WATER LINE CONSTRUCTION IS SUBJECT TO THE CONTRACT DOCUMENTS AS WELL AS THE WATER LINE CONSTRUCTION NOTES LISTED HERE. IF A CONFLICT ARISES BETWEEN THESE NOTES AND DETAILS AND LOCAL PURVEYOR'S STANDARDS, THE LOCAL PURVEYOR'S STANDARDS SHALL SUPERSEDE THESE NOTES AND DETAILS. CONTRACTOR TO KEEP A COPY OF DISTRICT STANDARD SPECIFICATIONS ON THE JOB SITE AT ALL TIMES. OBTAIN LATEST EDITION OF LOCAL PURVEYORS STANDARDS FROM: OGDEN CITY
2. ALL DOMESTIC WATER LINES 4" AND LARGER SHALL BE DUCTILE IRON PIPE IN CONFORMANCE WITH AWWA C151-09 OR PVC C900 IN CONFORMANCE WITH AWWA C900 WITH A PRESSURE CLASS OF 150. PUSH-ON GASKETED JOINTS OR MECHANICAL JOINT ENDS SHALL BE IN CONFORMANCE WITH AWWA C110-12.
3. ALL DOMESTIC SERVICE WATER LINES 3" AND SMALLER SHALL BE TYPE K COPPER PIPE, AND SHALL BE INSTALLED BY THE CONTRACTOR. THE WATER METER SHALL BE SUPPLIED BY THE LOCAL PURVEYOR. METER INSTALLATION SHALL BE COORDINATED WITH THE LOCAL PURVEYOR. THE WATER SERVICE LINE FROM THE REDUCER AFTER THE METER TO THE BUILDING SHALL BE TYPE K COPPER PIPE OR ASTM D2737 CTS HDPE POLY PIPE WITH TRACER WIRE.
4. WATER LINE FITTINGS SHALL BE DIP CONFORMING TO AWWA C110-12 AND SHALL HAVE A PRESSURE RATING OF 250 PSI. ALL FITTINGS SHALL BE MECHANICAL JOINT, UNLESS SPECIFIED OTHERWISE IN THE PLANS. UNLESS SPECIFIED OTHERWISE IN THE PLANS, AND SHALL BE CEMENT MORTAR LINED.
5. ALL DIP AND FITTINGS SHALL BE WRAPPED IN POLYETHYLENE TUBING TO PREVENT CORROSION. POLYETHYLENE TUBING, TAPE AND INSTALLATION SHALL MEET THE REQUIREMENTS OF AWWA C105.
6. GATE VALVES SHALL CONFORM TO AWWA C509, AND SHALL BE DOUBLE-RISE, RESILIANT WEDGE TYPE, PARALLEL-SEAT, IRON BODY, BRONZE-MOUNTED, NON-RISING STEM, EQUIPPED WITH "O" RING STEM SEALS, AND SHALL CLOSE BY TURNING CLOCKWISE. VALVE ENDS SHALL BE MECHANICAL JOINT, UNLESS SPECIFIED OTHERWISE IN THE PLANS.
7. ALL BENDS, TEES, FIRE HYDRANTS, AND PLUGS AT DEADEND MAINS, SHALL BE RESTRAINED FROM THRUST BY USING CONCRETE THRUST BLOCKS PER THE THRUST BLOCK DETAILS FOR THE LOCAL PURVEYOR.
8. ALL FIRE HYDRANTS SHALL BE 48" BURY, 6" BARREL, 4 1/2" PUMPER AND (2) - 2 1/2" HOSE NOZZLE HYDRANTS (WATEROUS, US METROPOLITAN, OR MUELLER). REFER TO FIRE HYDRANT DETAILS AND LOCAL PURVEYOR'S STANDARDS.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL FIRE HYDRANTS AND VALVE BOXES TO FINISH GRADE, IN ACCORDANCE WITH LOCAL PURVEYOR'S STANDARDS.
10. ALL WATER LINES SHALL BE TESTED IN ACCORDANCE WITH LOCAL PURVEYOR'S REGULATIONS. CONTRACTOR SHALL FURNISH ALL MATERIALS AND PERFORM ALL PROCEDURES FOR TESTING, FLUSHING, AND DISINFECTING THE INSTALLED WATER LINES. TESTING SHALL BE DONE IN THE PRESENCE OF THE LOCAL PURVEYOR'S INSPECTOR.

PRIVATE STORM WATER NOTES

1. ALL STORM DRAINAGE CONSTRUCTION IS SUBJECT TO THE GENERAL NOTES ON THESE PLANS, AS WELL AS THE STORM DRAINAGE CONSTRUCTION NOTES LISTED HERE.
2. ALL STORM DRAINAGE PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) PER ASTM C76, CL III OR CL IV FOR SIZES 15" AND LARGER, AND JOINTING SHALL CONFORM TO ASTM C443. 12" AND SMALLER SHALL BE PVC (SDR-35), AND SHALL BE IN ACCORDANCE WITH ASTM D-3034. ANY STORM DRAINAGE PIPE UNDER A PROPOSED OR FUTURE TRAFFIC AREA SHALL BE RCP CL III AS A MINIMUM. RCP TO BE JACKED SHALL BE CL-V AS A MINIMUM.
3. PROPOSED CATCH BASIN AND INLET BOX GRATES ARE TO BE BICYCLE PROOF.
4. TOP OF GRATE (TG) AND FLOW LINE (FL) SPOT GRADES AT INLETS DO NOT INCLUDE GUTTER DEPRESSION.
5. ALL STORM DRAINAGE PIPE SHALL HAVE A MINIMUM COVER OF 24", UNLESS OTHERWISE NOTED. UNDER NO CIRCUMSTANCES WILL ANY PIPE HAVE LESS THAN 18" COVER FROM THE FINISH SURFACE TO THE OUTSIDE WALL OF THE PIPE.
6. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF ROOF AND CANOPY DOWNSPOUTS. CONTRACTOR IS RESPONSIBLE FOR FINAL COORDINATION OF SIZE, LOCATION, AND DEPTH OF ROOF DRAINS.

SANITARY SEWER NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE STANDARD WATER AND SEWER SPECIFICATIONS FOR CITY, COUNTY AND REGULATORY AGENCY UTILITY SPECIFICATIONS, CURRENT EDITION.
2. ALL SANITARY SEWER LINES AT 4.0 FOOT DEPTH OR GREATER SHALL BE POLYVINYL CHLORIDE PIPE (PVC), ASTM D-3034 SDR35. SEWER LINE MATERIALS AND CONSTRUCTION SHALL CONFORM TO ASTM STANDARDS AND SPECIFICATIONS.
3. ALL SANITARY SEWER TESTING SHALL BE IN ACCORDANCE WITH THE CITY, COUNTY AND REGULATORY AGENCY UTILITY SPECIFICATIONS.
4. NO CONNECTIONS TO THE EXISTING SYSTEM SHALL BE MADE UNTIL THE NEW LINES HAVE BEEN TESTED AND ACCEPTED BY THE CITY, COUNTY AND REGULATORY AGENCY.

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OGDEN SCHOOL DISTRICT
OGDEN HIGH SCHOOL BASEBALL FIELD RENOVATION

2828 HARRISON BLVD.
OGDEN, UT 84403

SEAL

REGISTERED PROFESSIONAL ENGINEER
No. 5336572
CHRISTIAN MICHAELSON
8/18/2022
STATE OF UTAH

MHTN PROJECT NO. 2022539

VIEW AND PRINT THIS DRAWING IN COLOR

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REVISIONS
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ISSUE
CONSTRUCTION DOCUMENTS
AUG. 18, 2022

SHEET NAME
NOTES

SHEET NUMBER
CV101

RETURN TO INDEX

DEMOLITION LEGEND

- DEMOLITION LIMIT LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING FENCE
- EXISTING TO REMAIN
- EXISTING TO BE REMOVED
- EXISTING ASPHALT TO REMAIN
- EXISTING ASPHALT TO BE REMOVED
- EXISTING SIDEWALK TO REMAIN
- EXISTING SIDEWALK TO BE REMOVED
- EXISTING WATER
- EXISTING STORM DRAIN
- EXISTING SANITARY SEWER
- EXISTING FIBER OPTIC LINE
- EXISTING ELECTRICAL VAULT
- EXISTING LIGHT POLE
- EXISTING YARD HYDRANT
- EXISTING STORM DRAIN MANHOLE
- EXISTING SANITARY SEWER MANHOLE

SURVEYOR TO OBTAIN AUTOCAD FILE FROM ENGINEER AND VERIFY ALL HORIZONTAL CONTROL DIMENSIONING PRIOR TO CONSTRUCTION STAKING. SURVEYOR MUST VERIFY ALL BENCHMARK, BASIS OF BEARING AND DATUM INFORMATION TO ENSURE IMPROVEMENTS WILL BE AT THE SAME HORIZONTAL AND VERTICAL LOCATIONS SHOWN ON THE DESIGN CONSTRUCTION DRAWINGS. PRIOR TO CONSTRUCTION STAKING ANY DISCREPANCY MUST BE REPORTED TO OWNER AND ENGINEER PRIOR TO CONTINUATION OF ANY FURTHER STAKING OR CONSTRUCTION WORK.

NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.

NOTE: CONTRACTOR MUST COORDINATE WORK WITH UTILITY COMPANY AND CITY PRIOR TO BEGINNING WORK AND IS RESPONSIBLE FOR ALL MATERIALS, LABOR, REPAIRS, PERMITS, ETC. TO COMPLETE WORK AND RESTORE AREA TO SAME STATE PRIOR TO STARTING WORK

CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL INFORMATION FOR FINAL ACCEPTANCE OF WORK FOR ANY LOCAL, STATE OR FEDERAL AGENCY, UTILITY DISTRICT OR ANY OTHER AGENCY OR DISTRICT HAVING APPROVAL AUTHORITY OVER WORK. THIS INFORMATION MAY INCLUDE, BUT IS NOT LIMITED TO, AS-BUILT PLANS, CERTIFICATIONS, INSPECTIONS AND REPORTS.

BENCHMARK

CL MONUMENT IN 29TH & HARRISON WITH AN ELEVATION OF 4524.75' USING NAVD88 VERTICAL DATUM.

BASIS OF BEARING

THE BASIS OF BEARING OF S1°18'40"W BETWEEN CL MONUMENT IN 29TH STREET & HARRISON AND CL MONUMENT IN 30TH & HARRISON.

CAUTION - NOTICE TO CONTRACTOR

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2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION AND SIZE OF SUCH EXISTING UTILITY, EITHER THROUGH POTHOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.

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SHEET NAME
DEMOLITION PLAN

SHEET NUMBER
CD100

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N
SCALE: 1"=20'

GENERAL SITE KEYNOTES

1. CONSTRUCT TWO 5" STAIRS WITH CURB WALL AND HAND RAIL. SEE LANDSCAPE PLANS FOR DETAILS.
2. CONSTRUCT 10" DEEP WARNING TRACK MATERIAL. SEE LANDSCAPE PLANS FOR DETAILS.
3. CONSTRUCT INFIELD SOILS. SEE LANDSCAPE PLANS FOR DETAILS.
4. CONSTRUCT TURF. SEE LANDSCAPE PLANS FOR DETAILS.
5. CONSTRUCT DUGOUT. SEE ARCHITECTURAL PLANS FOR DETAILS.
6. CONSTRUCT BULLPEN. SEE LANDSCAPE PLANS FOR DETAILS.
7. CONSTRUCT PITCHERS MOUND. SEE LANDSCAPE PLANS FOR DETAILS.
8. CONSTRUCT CONCRETE SIDEWALK. SEE DETAILS 1 AND 2 ON SHEET CS500.
9. CONSTRUCT BACKSTOP. SEE LANDSCAPE PLANS FOR DETAILS.
10. CONSTRUCT HOME PLATE. SEE LANDSCAPE PLANS FOR DETAILS.
11. CONSTRUCT BATTERS CAGE. SEE LANDSCAPE PLANS FOR DETAILS.
12. CONSTRUCT LANDSCAPE SWALE.
13. CONSTRUCT BERM. SEE GRADING PLAN.
14. CONSTRUCT BATTER'S EYE. SEE LANDSCAPE PLANS FOR DETAILS.
15. REINSTALL SCORE BOARD.
16. CONSTRUCT 3' WATER WAY. SEE DETAIL 3 ON SHEET CS500.
17. CONSTRUCT GRAVEL. SEE LANDSCAPE PLANS FOR DETAILS.
18. BLEACHERS BY OWNER.
19. CONSTRUCT GATE. SEE LANDSCAPE PLANS FOR DETAILS.
20. CONSTRUCT RETAINING WALL. SEE LANDSCAPE & STRUCTURAL PLANS FOR DETAILS.

SITE LEGEND

- CONSTRUCTION LIMIT LINE
- EXISTING TO REMAIN
- PROPOSED NEW
- EXISTING FENCE
- PROPOSED FENCE
- PROPOSED SWALE FLOW LINE
- EXISTING LIGHT POLE
- PROPOSED SIDEWALK
- EXISTING SIDEWALK

PAVING & LANDSCAPE LEGEND

- STANDARD DUTY CONCRETE
- LANDSCAPE - SEE LANDSCAPE PLANS
- INFIELD SOILS - SEE LANDSCAPE PLANS
- WARNING TRACK MATERIAL - SEE LANDSCAPE PLANS
- GRAVEL - SEE LANDSCAPE PLANS

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SHEET NAME
BASE BID SITE PLAN

SHEET NUMBER
CS100

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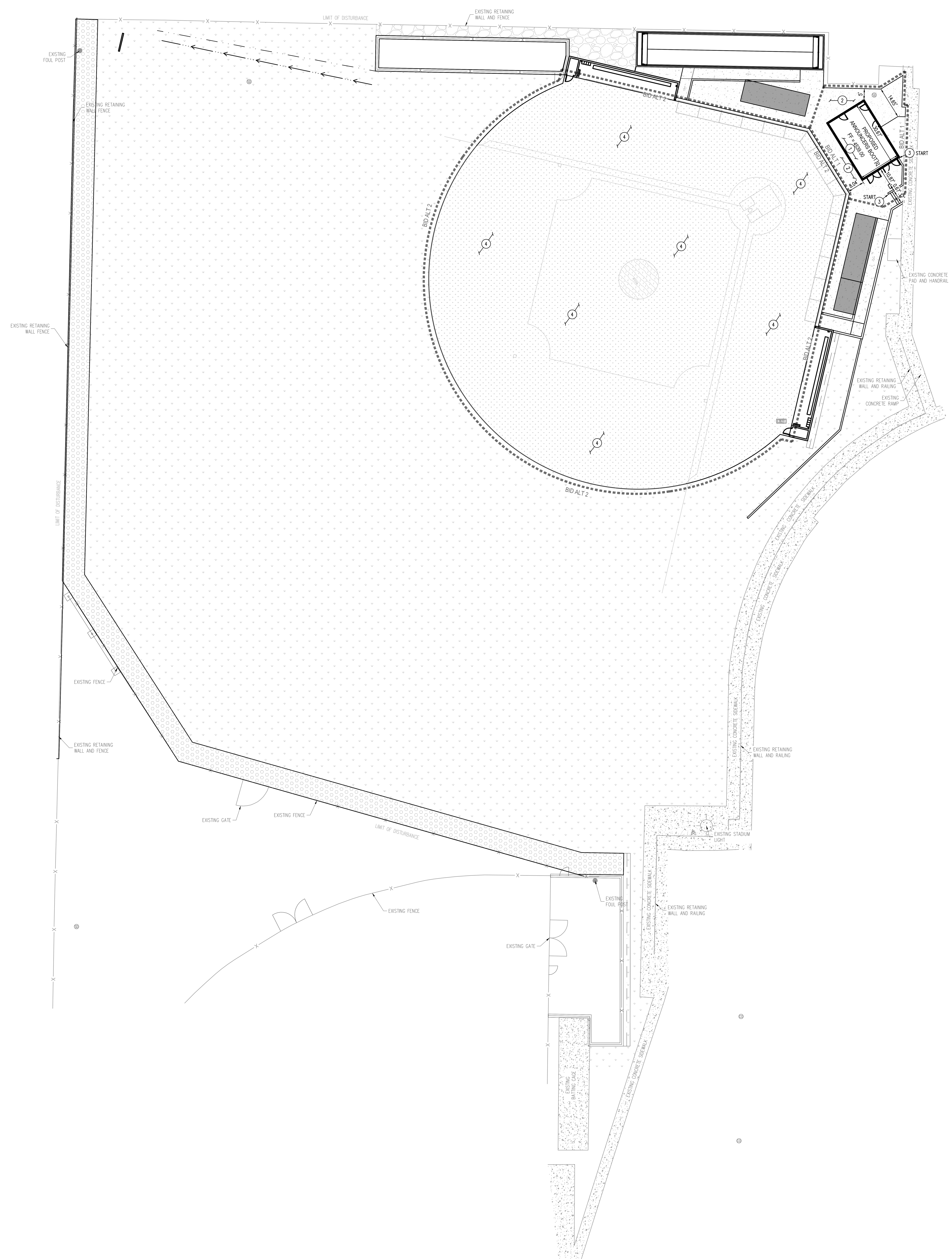

N

0 10 20

SCALE: 1"=20'

BID ALTERNATE KEYNOTES

1. CONSTRUCT ANNOUNCERS BOOTH. SEE ARCHITECTURAL PLANS FOR DETAILS.
2. CONSTRUCT CONCRETE SIDEWALK. SEE DETAILS 1 AND 2 ON SHEET CS500.
3. CONSTRUCT CONCRETE CURB WALL. SEE LANDSCAPE PLANS FOR DETAILS.
4. CONSTRUCT SYNTHETIC TURF. SEE LANDSCAPE PLANS FOR DETAILS.

SITE LEGEND

- CONSTRUCTION LIMIT LINE
- EXISTING TO REMAIN
- PROPOSED NEW
- EXISTING FENCE
- PROPOSED FENCE
- PROPOSED SWALE FLOW LINE
- EXISTING LIGHT POLE
- PROPOSED SIDEWALK
- EXISTING SIDEWALK

PAVING & LANDSCAPE LEGEND

- STANDARD DUTY CONCRETE
- LANDSCAPE - SEE LANDSCAPE PLANS
- INFIELD SOIL (BASE BID) - SEE LANDSCAPE PLANS
- SYNTHETIC TURF MATERIAL (BID ALT 2) - SEE LANDSCAPE PLANS

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BENCHMARK

CL MONUMENT IN 29TH & HARRISON WITH AN ELEVATION OF 4524.75' USING NAVD88 VERTICAL DATUM.

BASIS OF BEARING

THE BASIS OF BEARING OF S1°18'40"W BETWEEN CL MONUMENT IN 29TH STREET & HARRISON AND CL MONUMENT IN 30TH & HARRISON.

CAUTION - NOTICE TO CONTRACTOR

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OGDEN, UT 84403

SEAL

REGISTERED PROFESSIONAL ENGINEER
No. 5339572
CHRISTIAN MICHAELSON
8/18/2022
STATE OF UTAH

[illegible]

MHTN PROJECT NO. 2022539

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REVISIONS
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NO.	DATE	DESCRIPTION

ISSUE
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AUG. 18, 2022

SHEET NAME
BID ALTERNATE SITE PLAN

SHEET NUMBER
CS101

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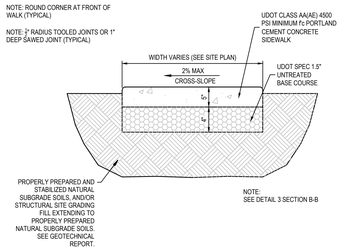
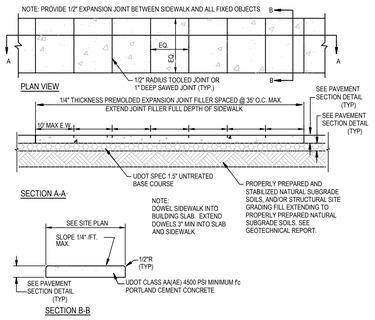
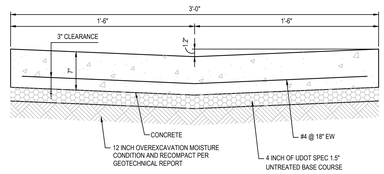


1 CONCRETE SIDEWALK
NOT TO SCALE



2 SITE EXTERIOR FLATWORK
NOT TO SCALE



3 3" WATERWAY DETAIL
NOT TO SCALE

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SHEET NAME
SITE DETAILS

SHEET NUMBER
CS500

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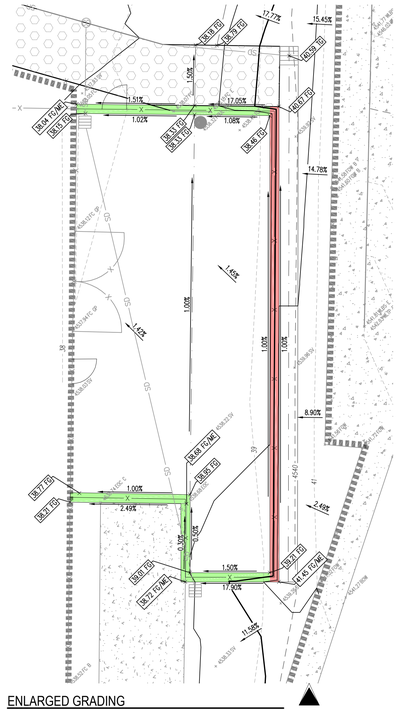

ENLARGED GRADING
SCALE: 1" = 10"

N

0 10 20
SCALE: 1"=20'

GRADING LEGEND

- CONSTRUCTION LIMIT LINE
- 4535 EXISTING MAJOR CONTOUR
- 36 EXISTING MINOR CONTOUR
- 40 PROPOSED MAJOR CONTOUR
- 41 PROPOSED MINOR CONTOUR
- PROPOSED GRADE BREAK
- PROPOSED SWALE FLOW LINE
- 15.00 PROPOSED SPOT ELEVATION
- BR BOTTOM OF RAMP
- TR TOP OF RAMP
- FF FINISHED FLOOR
- FG FINISHED GRADE
- SW SIDEWALK
- GB GRADE BREAK
- ME MATCH EXISTING
- TG TOP OF GRATE
- 1.50% EXISTING SLOPE ARROW
- 1.50% PROPOSED SLOPE ARROW

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BENCHMARK

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SEAL

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No. 5338572
CHRISTIAN MICHALSON
8/18/2022
STATE OF UTAH

MHTN PROJECT NO. 2022539

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ISSUE
CONSTRUCTION DOCUMENTS
AUG. 18, 2022

SHEET NAME
BASE BID
GRADING PLAN

SHEET NUMBER
CG100

RETURN TO INDEX

N

0 1 2 5
SCALE: 1"=5'

GRADING LEGEND

Symbol	Description
	CONSTRUCTION LIMIT LINE
4535	EXISTING MAJOR CONTOUR
36	EXISTING MINOR CONTOUR
40	PROPOSED MAJOR CONTOUR
41	PROPOSED MINOR CONTOUR
	PROPOSED GRADE BREAK
	PROPOSED SWALE FLOW LINE
15.00	PROPOSED SPOT ELEVATION
FF	FINISHED FLOOR
FG	FINISHED GRADE
SW	SIDEWALK
GB	GRADE BREAK
ME	MATCH EXISTING
TG	TOP OF GRATE
1.50%	EXISTING SLOPE ARROW
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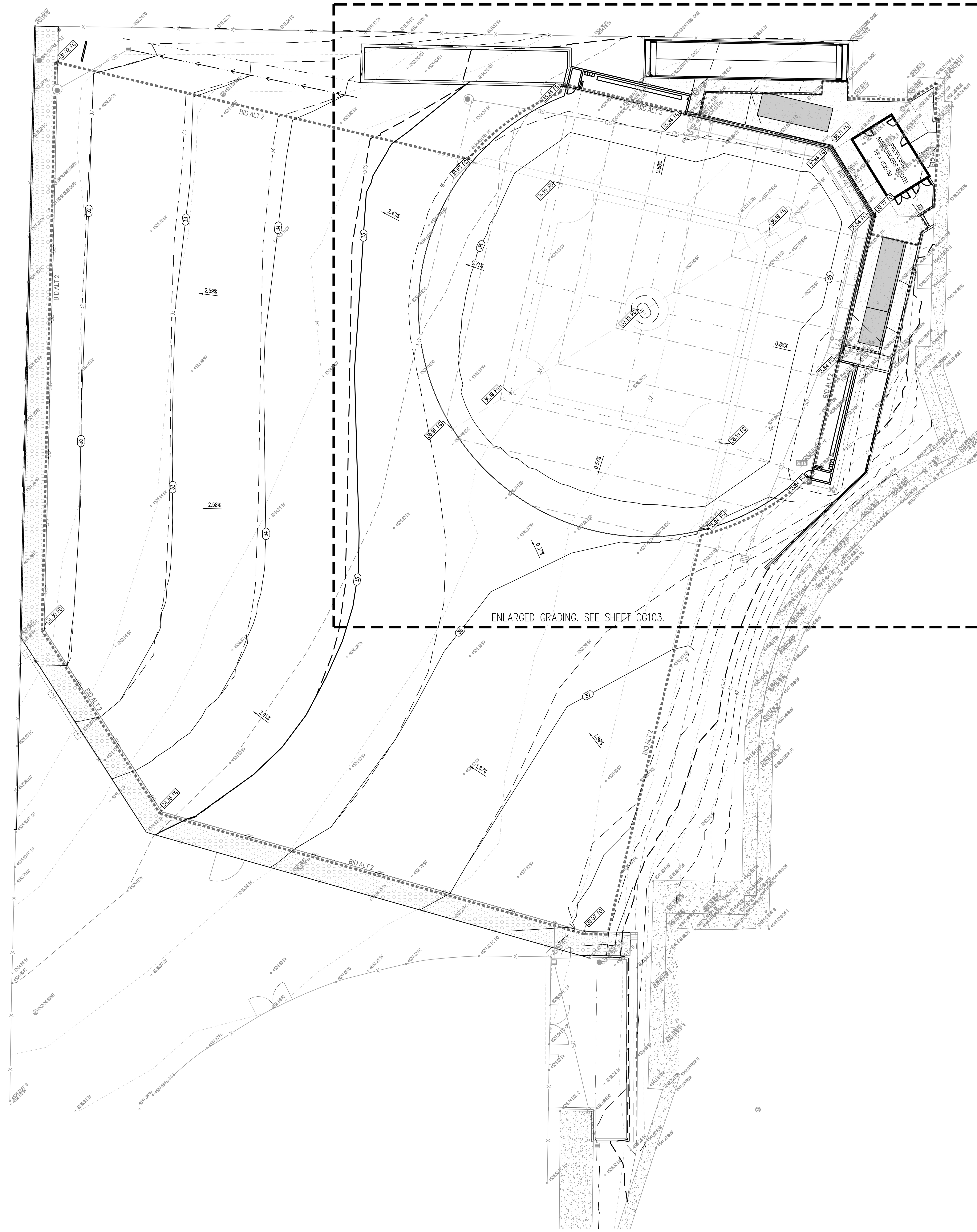

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0 10 20

SCALE: 1"=20'

GRADING LEGEND

- CONSTRUCTION LIMIT LINE
- 4535 — EXISTING MAJOR CONTOUR
- 36 — EXISTING MINOR CONTOUR
- 4535 — BASE BID MAJOR CONTOUR
- 36 — BASE BID MINOR CONTOUR
- 40 — BID ALT MAJOR CONTOUR
- 41 — BID ALT MINOR CONTOUR
- PROPOSED GRADE BREAK
- PROPOSED SWALE FLOW LINE
- 15.00 — PROPOSED SPOT ELEVATION
- FF — FINISHED FLOOR
- FG — FINISHED GRADE
- SW — SIDEWALK
- GB — GRADE BREAK
- ME — MATCH EXISTING
- TG — TOP OF GRATE
- 1.50% — EXISTING SLOPE ARROW
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BID ALTERNATE GRADING PLAN

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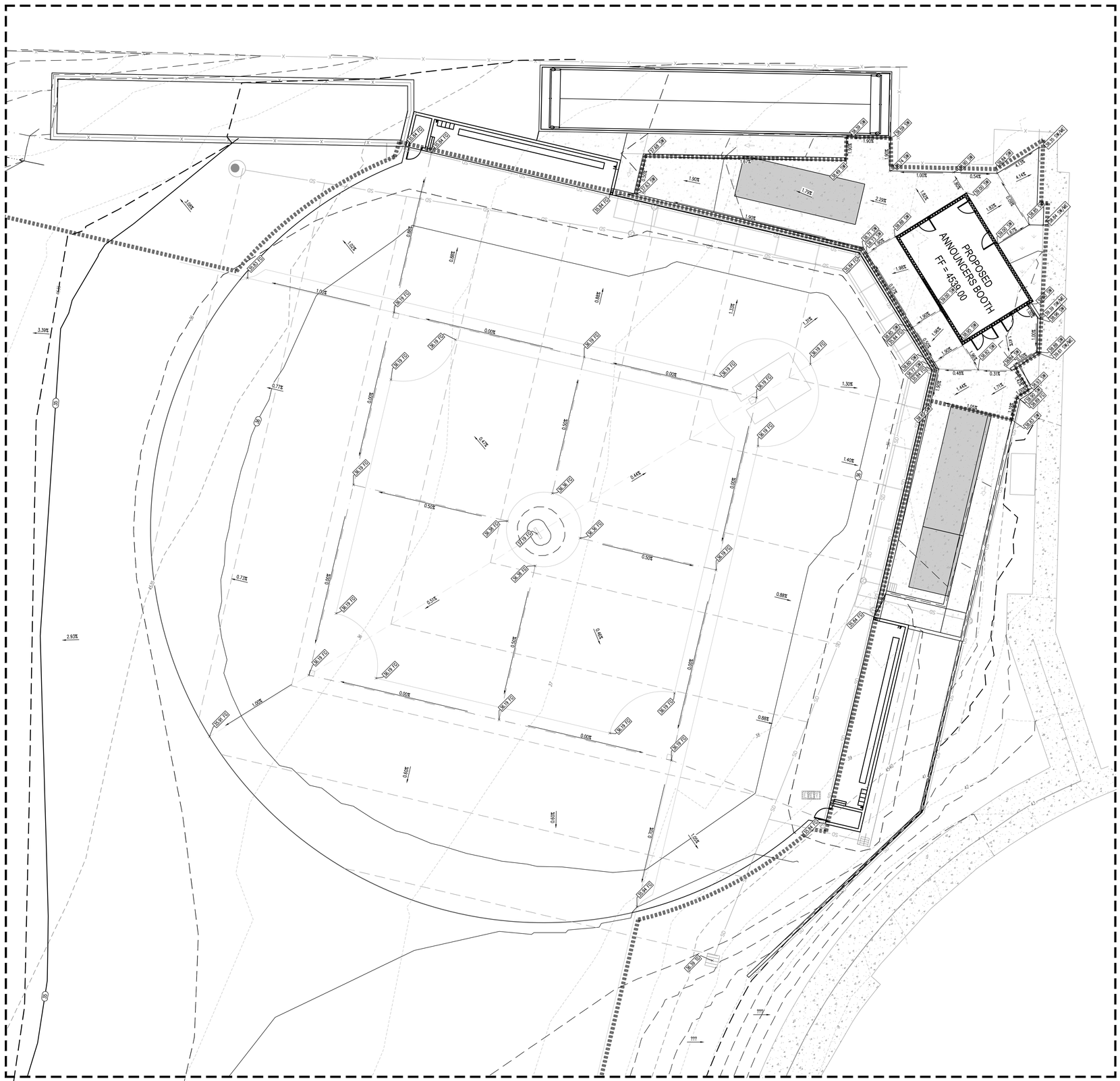

N

SCALE: 1"=10'

GRADING LEGEND

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- 4535 — EXISTING MAJOR CONTOUR
- 36 — EXISTING MINOR CONTOUR
- 4535 — BASE BID MAJOR CONTOUR
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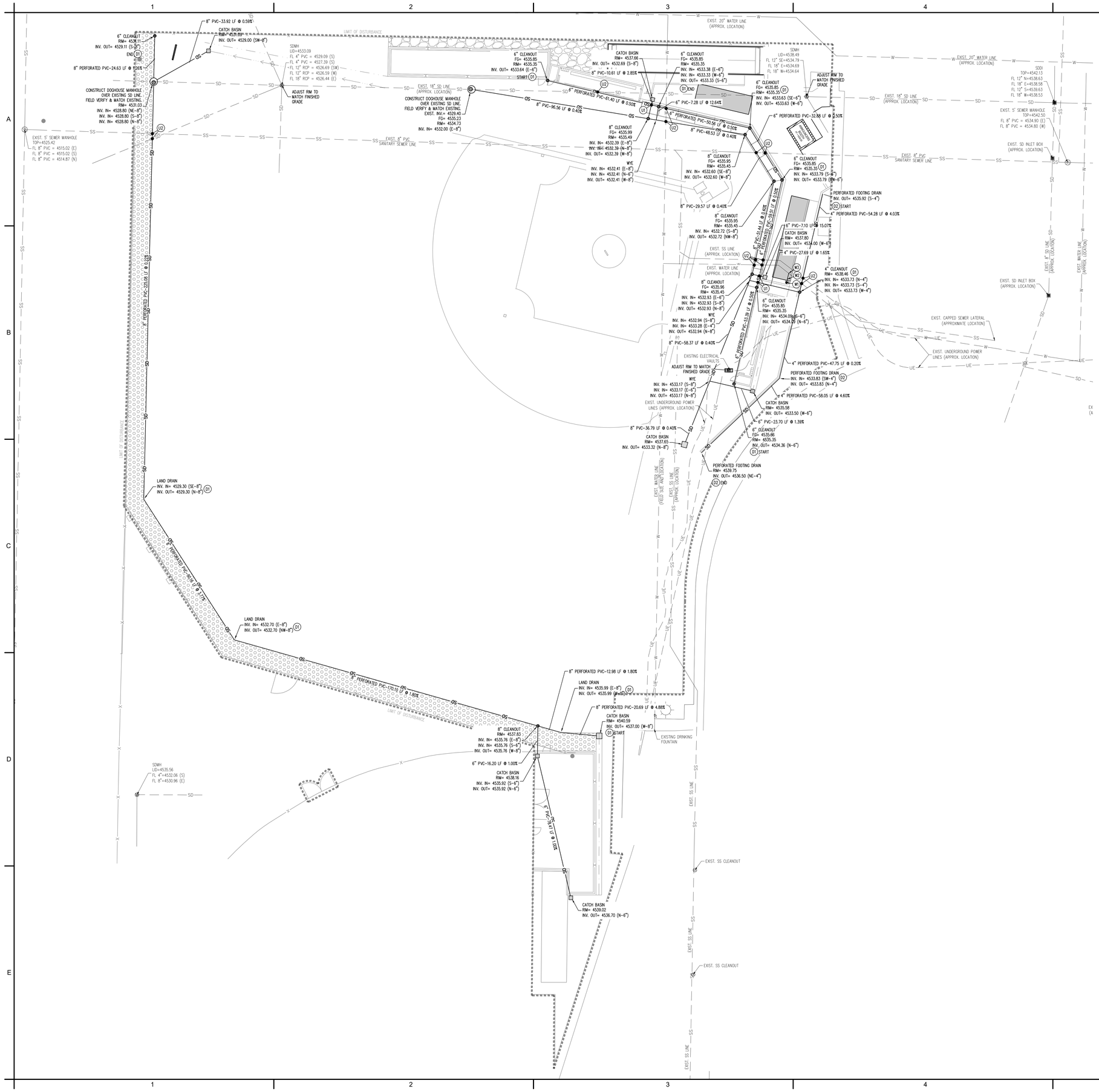

N

0 10 20

SCALE: 1"=20'

UTILITY LEGEND

- CONSTRUCTION LIMIT LINE
- W — EXISTING WATER LINE
- W — PROPOSED WATER LINE
- SS — EXISTING SANITARY SEWER
- SS — PROPOSED SANITARY SEWER
- SD — EXISTING STORM DRAIN
- SD — PROPOSED STORM DRAIN (LESS THAN 12")
- UE — EXISTING UNDERGROUND POWER
- FO — EXISTING FIBER OPTIC LINE
- EXISTING LIGHT POLE
- EVLT — EXISTING ELECTRICAL VAULT
- EXISTING YARD HYDRANT
- PROPOSED YARD HYDRANT
- EXISTING WATER VALVE
- SD — EXISTING STORM DRAIN MANHOLE
- S — EXISTING SANITARY SEWER MANHOLE
- PROPOSED MANHOLE
- PROPOSED CLEANOUT
- EXISTING STORM DRAIN BOX
- PROPOSED STORM DRAIN BOX

UTILITY NOTES

1 ALL MANHOLES AND CLEANOUTS LOCATED WITHIN THE FIELD OF PLAY SHALL BE CONSTRUCTED WITH RIM ELEVATIONS 6" BELOW FINISHED GRADE. LIDS SHALL BE WRAPPED IN NON-WOVEN FILTER FABRIC PRIOR TO BACKFILLING.

UTILITY KEYNOTES

U1 CONSTRUCT UTILITY CROSSING. CONTRACTOR TO MAINTAIN MINIMUM 1.5' (2' PREFERRED) CLEAR SPACE BETWEEN UTILITIES FROM OUTER EDGE TO OUTER EDGE OF PIPE.

U2 EXISTING UTILITY CROSSING. CONTRACTOR TO POTHOLE AND FIELD VERIFY SIZE, LOCATION, & DEPTH PRIOR TO CONSTRUCTION START. NOTIFY ENGINEER OF CONFLICTS.

WATER KEYNOTES

W1 CONSTRUCT YARD HYDRANT.

W2 CONSTRUCT 1" CTS POLY WATER LATERAL PER OGDEN CITY STANDARDS.

W3 CONSTRUCT 1" DOUBLE STRAP SERVICE SADDLE CONNECTION TO EXISTING LINE. FIELD VERIFY EXISTING SIZE AND LOCATION AND NOTIFY ENGINEER PRIOR TO CONSTRUCTION .

STORM WATER KEYNOTES

D1 CONSTRUCT PERFORATED LAND DRAIN. SEE LANDSCAPE PLANS FOR LAND DRAIN DETAIL.

D2 CONSTRUCT PERFORATED FOOTING DRAIN. SEE DETAIL 1 ON SHEET CU501.

SURVEYOR TO OBTAIN AUTOCAD FILE FROM ENGINEER AND VERIFY ALL HORIZONTAL CONTROL DIMENSIONING PRIOR TO CONSTRUCTION STAKING. SURVEYOR MUST VERIFY ALL BENCHMARK, BASIS OF BEARING AND DATUM INFORMATION TO ENSURE IMPROVEMENTS WILL BE AT THE SAME HORIZONTAL AND VERTICAL LOCATIONS SHOWN ON THE DESIGN CONSTRUCTION DRAWINGS. PRIOR TO CONSTRUCTION STAKING ANY DISCREPANCY MUST BE REPORTED TO OWNER AND ENGINEER PRIOR TO CONTINUATION OF ANY FURTHER STAKING OR CONSTRUCTION WORK.

NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.

NOTE: CONTRACTOR MUST COORDINATE WORK WITH UTILITY COMPANY AND CITY PRIOR TO BEGINNING WORK AND IS RESPONSIBLE FOR ALL MATERIALS, LABOR, REPAIRS, PERMITS, ETC. TO COMPLETE WORK AND RESTORE AREA TO SAME STATE PRIOR TO STARTING WORK.

CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL INFORMATION FOR FINAL ACCEPTANCE OF WORK FOR ANY LOCAL, STATE OR FEDERAL AGENCY, UTILITY DISTRICT OR ANY OTHER AGENCY OR DISTRICT HAVING APPROVAL AUTHORITY OVER WORK. THIS INFORMATION MAY INCLUDE, BUT IS NOT LIMITED TO, AS-BUILT PLANS, CERTIFICATIONS, INSPECTIONS AND REPORTS.

BENCHMARK

CL MONUMENT IN 29TH & HARRISON WITH AN ELEVATION OF 4524.75' USING NAVD88 VERTICAL DATUM.

BASIS OF BEARING

THE BASIS OF BEARING OF S1°18'40"W BETWEEN CL MONUMENT IN 29TH STREET & HARRISON AND CL MONUMENT IN 30TH & HARRISON.

CAUTION - NOTICE TO CONTRACTOR

1. ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.

811 Know what's **below.** **Call** before you dig.

2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION AND SIZE OF SUCH EXISTING UTILITY, EITHER THROUGH POTHOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.

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OGDEN SCHOOL DISTRICT
OGDEN HIGH SCHOOL BASEBALL FIELD RENOVATION
2828 HARRISON BLVD.
OGDEN, UT 84403

SEAL

REGISTERED PROFESSIONAL ENGINEER
No. 5339572
CHRISTIAN MICHAELSON
8/18/2022
STATE OF UTAH

MHTN PROJECT No: 2022539

VIEW AND PRINT THIS DRAWING IN COLOR

Original drawing is 30 x 42. Do not scale contents of this drawing.

REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

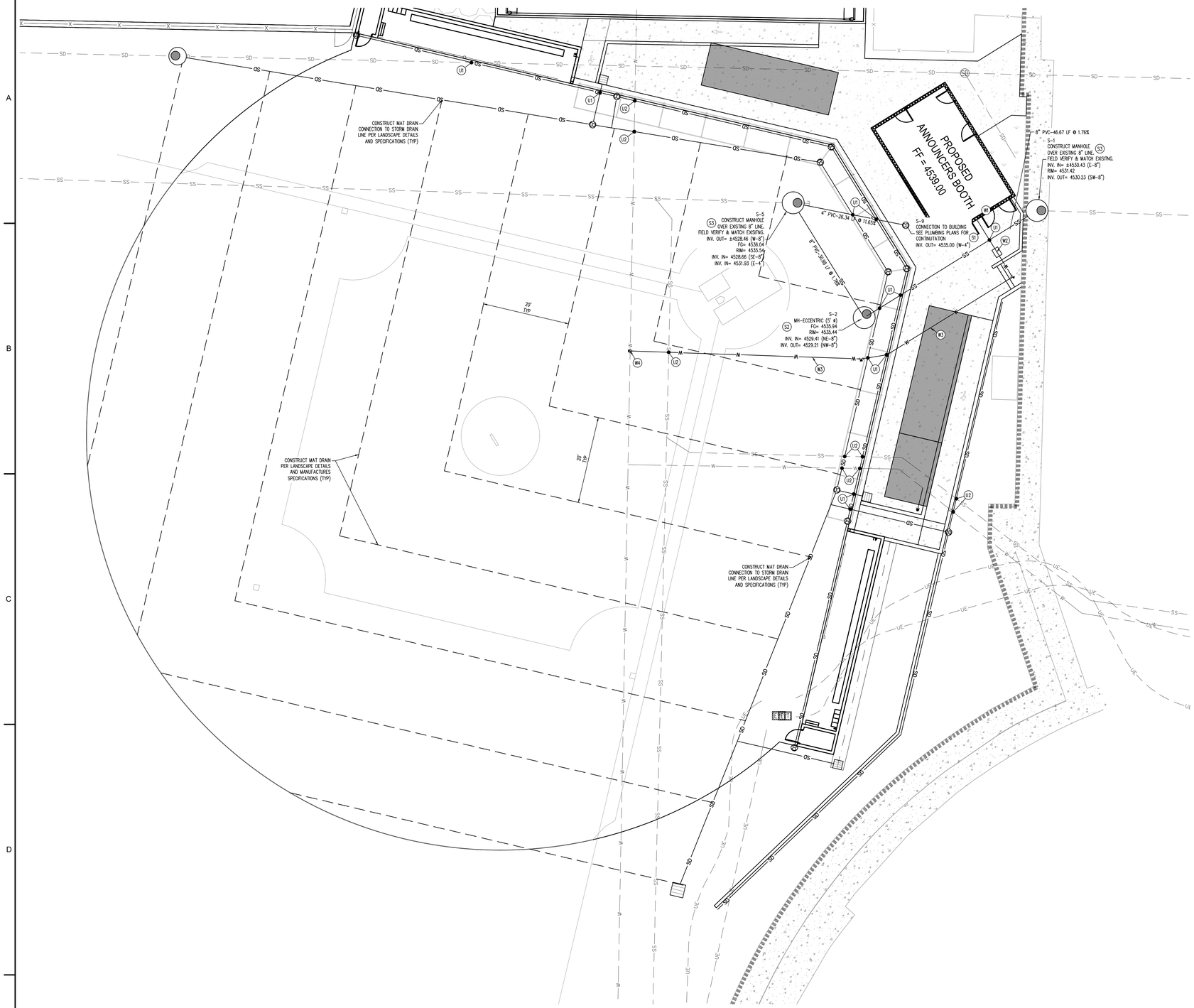
NO.	DATE	DESCRIPTION

ISSUE
CONSTRUCTION DOCUMENTS
AUG. 18, 2022

SHEET NAME
BASE BID
UTILITY PLAN

SHEET NUMBER
CU100

RETURN TO INDEX



N

0 5 10

SCALE: 1"=10'

UTILITY LEGEND

- CONSTRUCTION LIMIT LINE
- W — EXISTING WATER LINE
- W — PROPOSED WATER LINE
- SS — EXISTING SANITARY SEWER
- SS — PROPOSED SANITARY SEWER
- SD — EXISTING STORM DRAIN
- SD — PROPOSED STORM DRAIN (LESS THAN 12")
- UE — EXISTING UNDERGROUND POWER
- FO — EXISTING FIBER OPTIC LINE
- EXISTING LIGHT POLE
- EVLT — EXISTING ELECTRICAL VAULT
- EXISTING YARD HYDRANT
- PROPOSED YARD HYDRANT
- EXISTING WATER VALVE
- SD — EXISTING STORM DRAIN MANHOLE
- S — EXISTING SANITARY SEWER MANHOLE
- PROPOSED MANHOLE
- PROPOSED CLEANOUT
- EXISTING STORM DRAIN BOX
- PROPOSED STORM DRAIN BOX

UTILITY NOTES

1. ALL MANHOLES AND CLEANOUTS LOCATED WITHIN THE FIELD OF PLAY SHALL BE CONSTRUCTED WITH RIM ELEVATIONS 6" BELOW FINISHED GRADE. LIDS SHALL BE WRAPPED IN NON-WOVEN FILTER FABRIC PRIOR TO BACKFILLING.
2. CONTRACTOR TO FIELD VERIFY & NOTE THE LOCATIONS OF ALL CONSTRUCTED SANITARY SEWER MANHOLES FROM THREE FIXED LOCATIONS. INFORMATION TO BE PROVIDED TO OGDEN CITY FOR THEIR RECORDS.

UTILITY KEYNOTES

- (U1) CONSTRUCT UTILITY CROSSING. CONTRACTOR TO MAINTAIN MINIMUM 1.5' (2' PREFERRED) CLEAR SPACE BETWEEN UTILITIES FROM OUTER EDGE TO OUTER EDGE OF PIPE.
- (U2) EXISTING UTILITY CROSSING. CONTRACTOR TO POTHOLE AND FIELD VERIFY SIZE, LOCATION, & DEPTH PRIOR TO CONSTRUCTION START. NOTIFY ENGINEER OF CONFLICTS.

SANITARY SEWER KEYNOTES

- (S1) CONSTRUCT SANITARY SEWER CLEANOUT. POINT OF SERVICE TO BUILDING. REFERENCE PLUMBING PLANS FOR CONTINUATION.
- (S2) CONSTRUCT 5'Ø SANITARY SEWER MANHOLE PER OGDEN CITY STANDARDS.
- (S3) CONSTRUCT 5'Ø SANITARY SEWER DOGHOUSE MANHOLE OVER EXISTING 8" PVC SEWER LINE PER OGDEN CITY STANDARDS. FIELD VERIFY & MATCH EXISTING.

WATER KEYNOTES

- (W1) CONSTRUCT DOMESTIC WATER POINT OF SERVICE TO BUILDING. REFERENCE PLUMBING PLANS FOR CONTINUATION.
- (W2) CONSTRUCT 24"X18" CONCRETE VAULT BOX WITH HEAVY DUTY HINGED/LOCKING LID FOR STOP & WASTE VALVE ACCESS. SEE PLUMBING PLANS.
- (W3) CONSTRUCT 1 ½" CTS POLY WATER LATERAL PER OGDEN CITY STANDARDS.
- (W4) CONSTRUCT 1 1/2" DOUBLE STRAP SERVICE SADDLE CONNECTION TO EXISTING LINE. FIELD VERIFY EXISTING SIZE AND LOCATION & NOTIFY ENGINEER PRIOR TO CONNECTION.

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CL MONUMENT IN 29TH & HARRISON WITH AN ELEVATION OF 4524.75' USING NAVD88 VERTICAL DATUM.

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THE BASIS OF BEARING OF S1°18'40"W BETWEEN CL MONUMENT IN 29TH STREET & HARRISON AND CL MONUMENT IN 30TH & HARRISON.

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AUG. 18, 2022

SHEET NAME
BID ALTERNATE UTILITY PLAN

SHEET NUMBER
CU101

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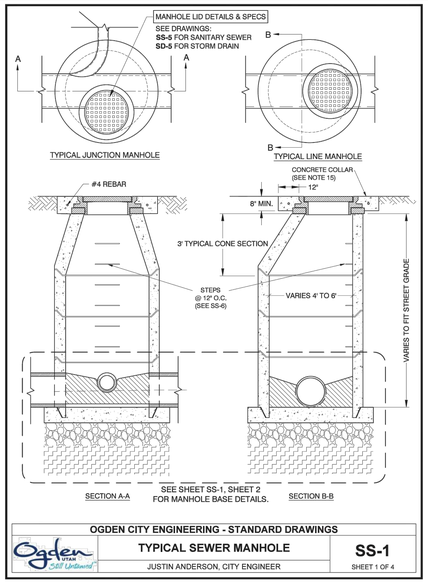
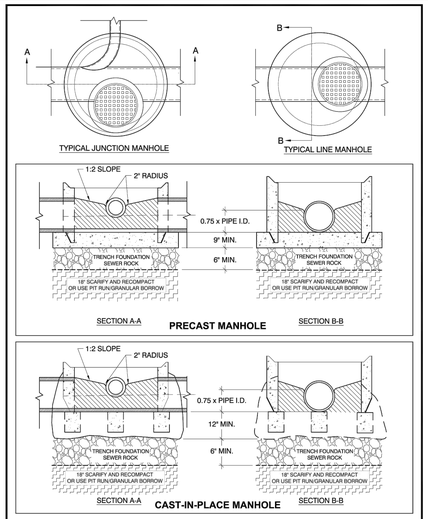


OGDEN CITY ENGINEERING - STANDARD DRAWINGS

Ogden UTAH Still Untamed	TYPICAL SEWER MANHOLE JUSTIN ANDERSON, CITY ENGINEER	SS-1 SHEET 1 OF 4



OGDEN CITY ENGINEERING - STANDARD DRAWINGS

Ogden UTAH Still Untamed	SEWER MANHOLE BASE DETAILS JUSTIN ANDERSON, CITY ENGINEER	SS-1 SHEET 2 OF 4

NOTES:

1. BACKFILL: PROVIDE AND PLACE PER APWA SECTION 31 23 23.
   1.1. COMPACT PER APWA SECTION 31 23 26 TO A DENSITY OF 95 PERCENT OR GREATER. MAXIMUM LIFT THICKNESS BEFORE COMPACTION IS 8" WHEN USING RIDING AND 6" WHEN USING HAND COMPACTION EQUIPMENT.
   1.2. SEWER ROCK SHALL BE PER APWA SECTION 31 05 13.
2. CONCRETE CLASS 4000 PER APWA SECTION 03 30 04. PLACE CONCRETE PER APWA 03 30 10.
3. MANHOLE SIZE
   3.1. 4' DIAMETER FOR SEWER PIPES UNDER 12" IN DIAMETER AND NOT SUBJECT TO ANY CONDITIONS LISTED FOR THE 5' MANHOLE.
   3.2. 5' DIAMETER FOR THE FOLLOWING:
   3.2.1. DEFLECTION ANGLE IS GREATER THAN OR EQUAL TO 45°
   3.2.2. WHEN THE MANHOLE HAS THREE OR MORE LINES
   3.2.3. FOR SEWERS WITH A PIPE DIAMETER OF 12" OR GREATER
   3.2.4. WHEN THE COVER IS GREATER THAN 14'.
4. SEE SS-5 FOR MANHOLE LID SPECIFICATIONS.
5. OUTLET PIPE TO BE A MINIMUM OF 1" BELOW INLET PIPE FLOW LINES EXCEPT AS NOTED BELOW IN FIG. 1 (BELOW).
6. STEEL FRAMES: USE ASTM A 36 STEEL.
7. LOW PROFILE LIDS WILL NOT BE ALLOWED IN ANY OGDEN CITY RIGHT OF WAY.
8. REINFORCEMENT: USE ASTM A 615, GRADE 60. REFER TO APWA 03 20 00.
   8.1. CAST IN PLACE REBAR SCHEDULE MUST BE STAMPED BY A STRUCTURAL ENGINEER.
9. COATINGS: EXCEPT MACHINED SURFACES, COAT ALL METAL WITH ASPHALTUM PAINT.
10. GROUT ALL PIPE OPENINGS WITH 2:1 SAND/CEMENT MORTAR.
11. PLACE FLEXIBLE GASKET-TYPE SEALANT IN ALL MANHOLE JOINTS. SEAL MUST MEET THE REQUIREMENTS OF SS-S-00210 (210A), AASHTO M-198, AND ASTM C990.
12. PRECAST REINFORCED CONCRETE WALLS MUST BE 5" THICK.
13. CAST-IN-PLACE CONCRETE WALLS MUST BE A MINIMUM OF 8" THICK.
14. CONTRACTOR SHALL CONTACT SEWER DEPARTMENT PRIOR TO ENTRANCE INTO MANHOLE
    14.1. ENTRANCE INTO MANHOLE SHALL BE PER OSHA STANDARDS
15. **MINIMUM PIPE SLOPE:** REFER TO **TABLE 1 - MINIMUM SEWER MAIN PIPE SLOPE**, OF THE OGDEN CITY ENGINEERING STANDARDS FOR MINIMUM SEWER MAIN PIPE SLOPE.

NORMAL DROPS (IN FEET) STRAIGHT THROUGH MANHOLES AT INVERTS FOR MINIMUM GRADES OR GREATER EXCEPT AS NOTED BELOW

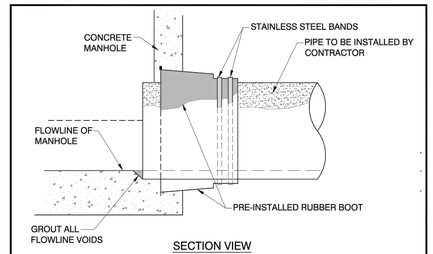
OUTLET SIZE \ INLET SIZE	8"	10"	12"	15"	18"
8"	0.10	---	---	---	---
10"	0.17	0.10	---	---	---
12"	0.33	0.17	0.10	---	---
15"	0.58	0.42	0.25	CL	---
18"	0.80	0.71	0.63	0.50	CL

FIGURE 1

CL INDICATES THE DROP THOUGH THE MANHOLE SHALL BE THE EXISTING FLOWLINE BASED ON THE PIPE SLOPE

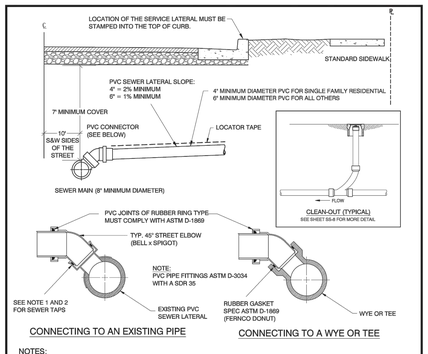
OGDEN CITY ENGINEERING - STANDARD DRAWINGS

Ogden UTAH Still Untamed	SEWER MANHOLE JUSTIN ANDERSON, CITY ENGINEER	SS-1 SHEET 3 OF 4



OGDEN CITY ENGINEERING - STANDARD DRAWINGS

Ogden UTAH Still Untamed	SEWER MANHOLE JUSTIN ANDERSON, CITY ENGINEER	SS-1 SHEET 4 OF 4

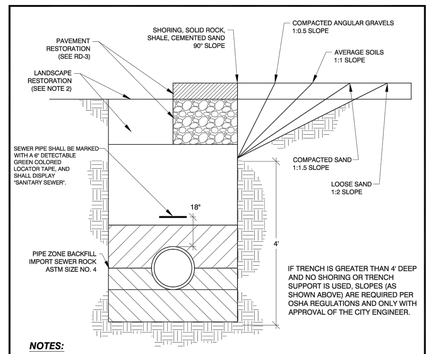


NOTES:

1. CONNECTION FEES WILL BE ASSESSED AT THE TIME A PERMIT IS ISSUED. SEWER TAPS WILL BE PERFORMED BY OGDEN CITY PERSONNEL. WYE CONNECTIONS WILL BE PERFORMED BY THE CONTRACTOR UNDER THE SUPERVISION OF AN OGDEN CITY INSPECTOR.
2. SEWER TAPS INTO EXISTING 8" DIAMETER SANITARY SEWER PIPES SHALL NOT BE GREATER THAN 4".
3. ALLOWABLE SANITARY SEWER LATERAL PIPE MATERIAL:
   3.1. PVC SDR-35; GREEN IN COLOR
   3.2. HDPE DR-17
4. REQUIREMENTS FOR THE BEDDING OF A LATERAL IS THE SAME AS SHOWN IN SS-4.
5. THE SEWER LATERAL LOCATIONS SHALL BE MARKED WITH AN "S" IN THE TOP OF THE CONCRETE CURB.
6. PVC JOINTS OF RUBBER RING MUST COMPLY WITH ASTM D-1869.
7. FOR NEW PROJECTS: EXTEND SEWER LATERAL 9' BEHIND THE BACK OF THE SIDEWALK OR PROPERTY LINE, WHICHEVER IS FURTHER. THE END OF A LATERAL SHALL BE MARKED WITH A 2x4, SET IN THE GROUND, AND HAVE THE END COLORED GREEN.
8. CLEANOUTS SHALL BE REQUIRED EVERY 100'.
9. SEWER PIPE SHALL BE MARKED WITH A 6' DETECTABLE GREEN COLORED LOCATOR TAPE LABELED 'SANITARY SEWER'

OGDEN CITY ENGINEERING - STANDARD DRAWINGS

Ogden UTAH Still Untamed	SEWER LATERAL CONNECTION JUSTIN ANDERSON, CITY ENGINEER	SS-2 SHEET 1 OF 1

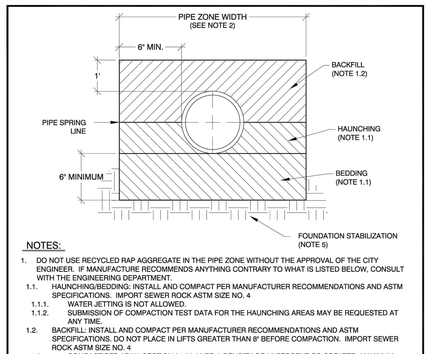


NOTES:

1. BACKFILL: ABOVE THE PIPE ZONE:
   1.1. GRANULAR FILL: PLACE FILL PER APWA SECTION 33 05 20.
   1.2. COMPACT PER APWA SECTION 31 23 26 TO A STANDARD PROCTOR DENSITY OF 95 PERCENT OR GREATER. MAXIMUM LIFT THICKNESS BEFORE COMPACTION IS 8" WHEN USING RIDING AND 6" WHEN USING HAND COMPACTION EQUIPMENT.
2. LANDSCAPE RESTORATION: LANDSCAPE MUST BE RETURNED TO PRE-CONSTRUCTION CONDITIONS OR BETTER.
3. PAVEMENT RESTORATION: DO NOT INSTALL ANY PORTION OF ASPHALT OR CONCRETE SURFACING UNTIL TRENCH COMPACTION IS ACCEPTABLE TO THE ENGINEER.
4. PEA GRAVEL IS NOT ALLOWED IN ANY PART OF THE TRENCH.
5. STANDARD SEWER MAIN ALIGNMENT SHALL BE 10' WEST OR 10' SOUTH OF THE CENTERLINE IN THE PUBLIC RIGHT-OF-WAY (SEE RD-1).
6. HORIZONTAL CLEARANCE TO ANY WATER MAIN SHALL BE AT LEAST 10' (REFER TO UTAH ADMINISTRATIVE CODE # R309-550).
7. COMPACTION TESTS ARE REQUIRED EVERY 200 LINEAR FEET OF A MAIN INSTALLATION PER APWA SECTION 33 05 20. COMPACTION TESTS ARE REQUIRED AT HALF AND FULL DEPTHS.

OGDEN CITY ENGINEERING - STANDARD DRAWINGS

Ogden UTAH Still Untamed	SEWER PIPE TRENCH JUSTIN ANDERSON, CITY ENGINEER	SS-3 SHEET 1 OF 1

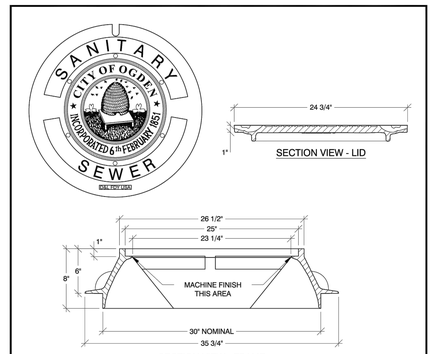


NOTES:

1. DO NOT USE RECYCLED RAP AGGREGATE IN THE PIPE ZONE WITHOUT THE APPROVAL OF THE CITY ENGINEER. IF MANUFACTURE RECOMMENDS ANYTHING CONTRARY TO WHAT IS LISTED BELOW, CONSULT WITH THE ENGINEERING DEPARTMENT.
   1.1. HAUNCHING/BEDDING: INSTALL AND COMPACT PER MANUFACTURER RECOMMENDATIONS AND ASTM SPECIFICATIONS. IMPORT SEWER ROCK ASTM SIZE NO. 4
      1.1.1. WATER JETTING IS NOT ALLOWED.
      1.1.2. SUBMISSION OF COMPACTION TEST DATA FOR THE HAUNCHING AREAS MAY BE REQUESTED AT ANY TIME.
   1.2. BACKFILL: INSTALL AND COMPACT PER MANUFACTURER RECOMMENDATIONS AND ASTM SPECIFICATIONS. DO NOT PLACE IN LIFTS GREATER THAN 8" BEFORE COMPACTION. IMPORT SEWER ROCK ASTM SIZE NO. 4
      1.2.1. COMPACT PER APWA SECTION 31 23 26 TO A DENSITY OF 95 PERCENT OR GREATER. MAXIMUM LIFT THICKNESS BEFORE COMPACTION IS 8" WHEN USING RIDING AND 6" WHEN USING HAND COMPACTION EQUIPMENT.
2. PIPE ZONE WIDTH IS RECOMMENDED BY THE MANUFACTURE OF THE PIPE. WIDTH OF PIPE ZONE IS MEASURED AT THE PIPE SPRING LINE AND INCLUDES ANY NECESSARY SHEATHING. FOLLOW MANUFACTURE RECOMMENDATIONS FOR ANY TRENCH BOX APPLICATIONS.
3. INSTALL THE PIPE IN THE CENTER OF THE TRENCH. THE EDGE OF THE PIPE WALL SHALL BE A MINIMUM DISTANCE OF 6" FROM THE TRENCH WALL.
4. PEA GRAVEL IS NOT ALLOWED IN ANY PART OF THE PIPE ZONE.
5. FOUNDATION STABILIZATION REQUIRES SEWER ROCK PER APWA SECTION 31 05 13.
   5.1. INSTALLATION OF STABILIZATION-SEPARATION GEOTEXTILE PER APWA SECTION 31 05 19 WILL BE REQUIRED TO SEPARATE BACKFILL MATERIAL AND NATIVE SUBGRADE MATERIAL IF SEWER ROCK CANNOT PROVIDE A WORKING SURFACE OR PREVENT SOIL MIGRATION.
6. REFER TO APWA SECTION 33 05 07 FOR ADDITIONAL INFORMATION ON PVC PIPE.

OGDEN CITY ENGINEERING - STANDARD DRAWINGS

Ogden UTAH Still Untamed	SEWER MAIN PIPE ZONE JUSTIN ANDERSON, CITY ENGINEER	SS-4 SHEET 1 OF 1

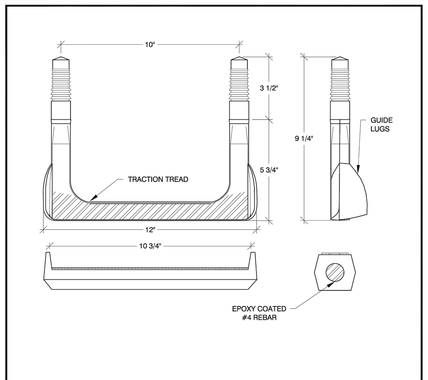


NOTES:

1. CONTACT THE OGDEN CITY SEWER DEPARTMENT FOR DETAILS AND ORDERING INFORMATION FOR SEWER LID AND FRAME (801) 629-8331 OR (801) 629-8282.
2. LOW PROFILE LIDS WILL NOT BE ALLOWED IN ANY OGDEN CITY RIGHT OF WAY.
3. CASTINGS: GREY IRON CLASS 35 MINIMUM PER ASTM A 48.
4. COATINGS:EXCEPT MACHINED SURFACES, COAT ALL METAL PARTS
5. HEAT NUMBER: PLACE FOUNDRY AND HEAT NUMBER ON THE INSIDE OF THE FRAME AND ON THE BOTTOM OF THE COVER.
6. SEE SS-1, FOR SEWER MANHOLE DETAILS

OGDEN CITY ENGINEERING - STANDARD DRAWINGS

Ogden UTAH Still Untamed	SEWER MANHOLE LID AND FRAME JUSTIN ANDERSON, CITY ENGINEER	SS-5 SHEET 1 OF 1

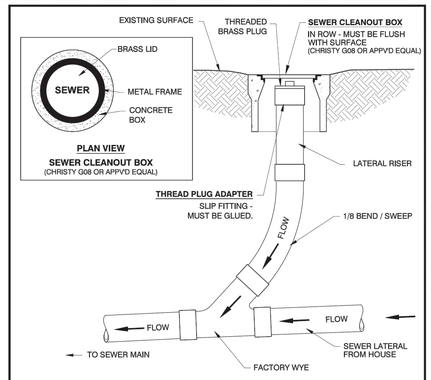


NOTES:

1. LADDER RUNGS ARE REQUIRED IN ALL MANHOLES AND BOXES
2. MANHOLE STEPS SHALL BE PLACED AT 12" ON CENTER
3. STEPS SHALL BE AN EPOXY COATED REBAR OR OTHER APPROVED EQUAL
   3.1. REINFORCEMENT: ASTM A 615, GRADE 60, DEFORMED STEEL. SEE APWA SECTION 03 20 00.
4. THE STEPS MUST BE BETWEEN 10" AND 13" WIDE
5. THE UPPER SURFACE OF EACH STEP SHALL HAVE A TRACTION TREAD AND GUIDE LUGS ON EACH SIDE
6. INSTALLATION METHOD MUST PRODUCE A STEP CAPABLE OF RESISTING A 300 POUND VERTICAL LOAD
7. THE INSTALLED STEPS SHOULD MEET THE MINIMUM REQUIREMENTS OF ASTM C 478 AND THE REQUIREMENTS OF OSHA

OGDEN CITY ENGINEERING - STANDARD DRAWINGS

Ogden UTAH Still Untamed	MANHOLE STEP DETAIL (TYPICAL) JUSTIN ANDERSON, CITY ENGINEER	SS-6 SHEET 1 OF 1

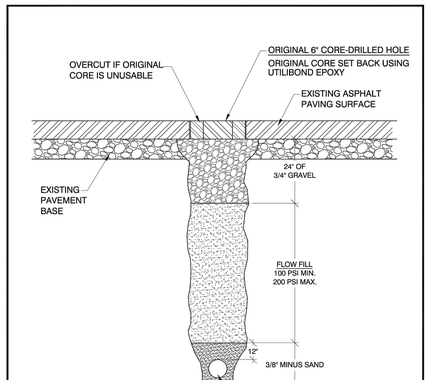


NOTES:

1. OBTAIN PERMIT
2. OGDEN CITY IS NOT RESPONSIBLE FOR FLUSHING LATERALS. OWNER IS RESPONSIBLE FOR LATERAL FROM CONNECTION AT THE MAIN TO THE HOME.
3. CLEANOUTS SHALL BE PLACED EVERY 100 FEET.
4. ALL FITTINGS EXCLUDING THE CAP NEED TO BE RUBBER GASKETED.
5. NO CLEANOUT SHALL BE INSTALLED IN ANY ROADWAY.
6. ALLOWABLE PIPE MATERIALS ARE ABS (ACRYLONITRILE BUTADIENE STYRENE), GREEN IN COLOR OR PVC (POLYVINYL CHLORIDE) SDR-35
7. SEE SHEET SS-8 (PAGE 1 OF 2) FOR FURTHER DETAIL.

OGDEN CITY ENGINEERING - STANDARD DRAWINGS

Ogden UTAH Still Untamed	SEWER LATERAL CLEANOUT JUSTIN ANDERSON, CITY ENGINEER	SS-8 SHEET 2 OF 2



NOTES:

1. IF ORIGINAL CORE CANNOT BE USED, THEN 12" DIAMETER CORE MUST BE CUT AND THEN FILLED WITH HOT MIX ASPHALT.

OGDEN CITY ENGINEERING - STANDARD DRAWINGS

Ogden UTAH Still Untamed	SEWER UTILITY POTHOLING JUSTIN ANDERSON, CITY ENGINEER	SS-9 SHEET 1 OF 1

MHTN ARCHITECTS
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GallowayUS.com

OGDEN SCHOOL DISTRICT
OGDEN HIGH SCHOOL BASEBALL FIELD RENOVATION
2828 HARRISON BLVD.
OGDEN, UT 84403

SEAL

REGISTERED PROFESSIONAL ENGINEER
No. 5339572
CHRISTIAN MICHAELSON
8/18/2022
STATE OF UTAH

MHTN PROJECT NO. 2022539

VIEW AND PRINT THIS DRAWING IN COLOR

Original drawing is 30 x 42. Do not scale contents of this drawing.

REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

NO.	DATE	DESCRIPTION

ISSUE
CONSTRUCTION DOCUMENTS
AUG. 18, 2022

SHEET NAME
UTILITY DETAILS

SHEET NUMBER
CU500

RETURN TO INDEX

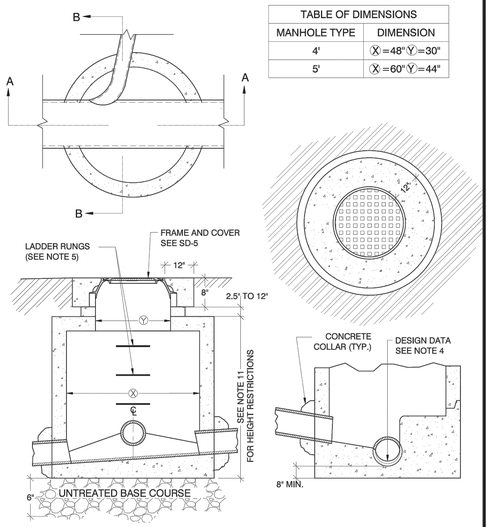
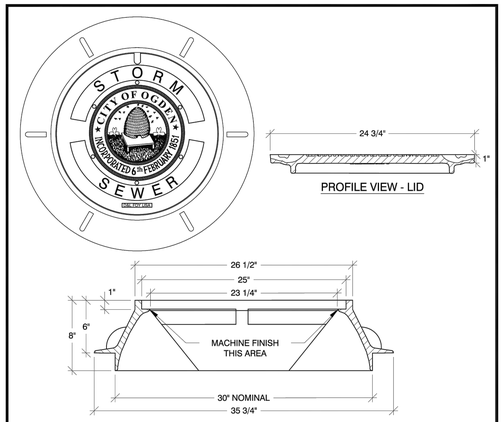


TABLE OF DIMENSIONS	
MANHOLE TYPE	DIMENSION
4'	X=48" Y=30"
5'	X=60" Y=44"

OGDEN CITY ENGINEERING - STANDARD DRAWINGS		
Ogden UTAH Still Untamed	STORM DRAIN MANHOLE (PRECAST)	SD-4
	JUSTIN ANDERSON, CITY ENGINEER	SHEET 1 OF 2



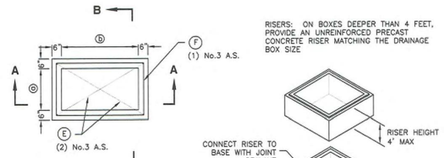
NOTES:

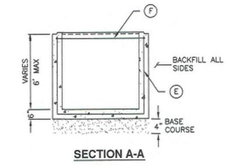
1. CONTACT THE OGDEN CITY STORM WATER DIVISION FOR DETAILS AND ORDERING INFORMATION FOR SEWER LID AND FRAME (801) 629-8331.
2. LOW PROFILE LIDS WILL NOT BE ALLOWED IN ANY OGDEN CITY RIGHT OF WAY.
3. CASTINGS: GREY IRON CLASS 35 MINIMUM PER ASTM A 48.
4. COATINGS: EXCEPT MACHINED SURFACES, COAT ALL METAL PARTS
5. HEAT NUMBER: PLACE FOUNDRY AND HEAT NUMBER ON THE INSIDE OF THE FRAME AND ON THE BOTTOM OF THE COVER.
6. SEE SD-3 FOR COMBINATION INLET / CLEANOUT BOX, SD-4 FOR STORM DRAIN MANHOLE AND SD-4 FOR STORM DRAIN MANHOLE DETAILS.

OGDEN CITY ENGINEERING - STANDARD DRAWINGS		
Ogden UTAH Still Untamed	STORM DRAIN MANHOLE LID AND FRAME	SD-5
	JUSTIN ANDERSON, CITY ENGINEER	SHEET 1 OF1

Precast box

1. **GENERAL**
   - A. The drawing shows typical pipe connections. Refer to construction drawings for connection locations or refer to field location of existing piping when engineering pipe connection to the box.
   - B. This drawing is acceptable where the water table elevation is less than 3 feet above the floor of the box. If elevation of water table is higher, engineering calculations and drawings must be submitted to and approved by the ENGINEER.
   - C. Submit bar design detail for ENGINEER's review.
2. **PRODUCTS**
   - A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
   - B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
   - C. Precast Concrete: Class 4000 precast, APWA Section 03 40 00.
   - D. Reinforcement: Deformed, 60 ksi yield grade steel, ASTM A615. Coated steel is not required for small drainage structures shown on this drawing.
   - E. Frame and Cover (or Grate): Use the appropriate unit indicated in the Contract Documents.
   - F. Joint Sealant: Rubber-based, compressible.
3. **EXECUTION**
   - A. Concrete Placement: Provide 2-inches of concrete cover over reinforcing steel.
   - B. Lifting Points: Provide at least 2 lifting points per section that avoid interference with the reinforcing steel and that are designed according to PCI (Prestressed Concrete Institute) design handbook. Lift only from the engineered lifting points.
   - C. Depth: Drainage boxes and riser combinations that exceed 8-feet from finished grade to the bottom of the box requires ENGINEER's approval. Submit design calculations and shop drawings.
   - D. Core Holes:
     1) Provide core holes that are at least 4" larger than attaching outer pipe diameter. Cut core holes at the manufacturing plant unless ENGINEER permits field core holes.
     2) Center core holes to leave 2" of concrete measured horizontally from inside wall of the box to core hole. Locate core hole vertically so bottom of core hole will be at or above floor elevation with at least 5-inches of concrete directly above the core hole to the top of the box.
     3) Deviations from core hole tolerances require shop drawings. Shop drawings will identify lifting point number and location.
   - E. Precast Top: Design precast top for AASHTO HL-93 live loads and submit rebar detail and stamped design drawings to ENGINEER. Show connection detail for frame and grate or cover.





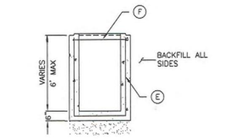


TABLE OF DIMENSIONS		
BOX SIZE	a	b
1.5 x 4	18"	48"
2 x 2	24"	24"
2 x 3	24"	36"
2.5 x 4	30"	48"
3 x 3	36"	36"
3 x 3.5	36"	42"
4 x 4	48"	48"

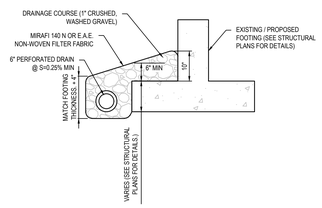
NOTE: OTHER BOX SIZES (LESS THAN 48") WITH DIFFERENT a AND b DIMENSIONS ARE ACCEPTABLE

REINFORCING STEEL LAYOUT	
PROVIDE 2" MIN. COVER ON ALL BARS	
BAR E	BAR F
	12"

APWA Utah Chapter

Precast box

Plan 332 June 2010



1 FOOTING DRAIN LINE DETAIL
NOT TO SCALE

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SEAL

REGISTERED PROFESSIONAL ENGINEER
No. 5339572
CHRISTIAN
MICHAELSON
8/18/2022
STATE OF UTAH

MHTN PROJECT NO. 2022539

VIEW AND PRINT THIS DRAWING IN COLOR

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REVISIONS
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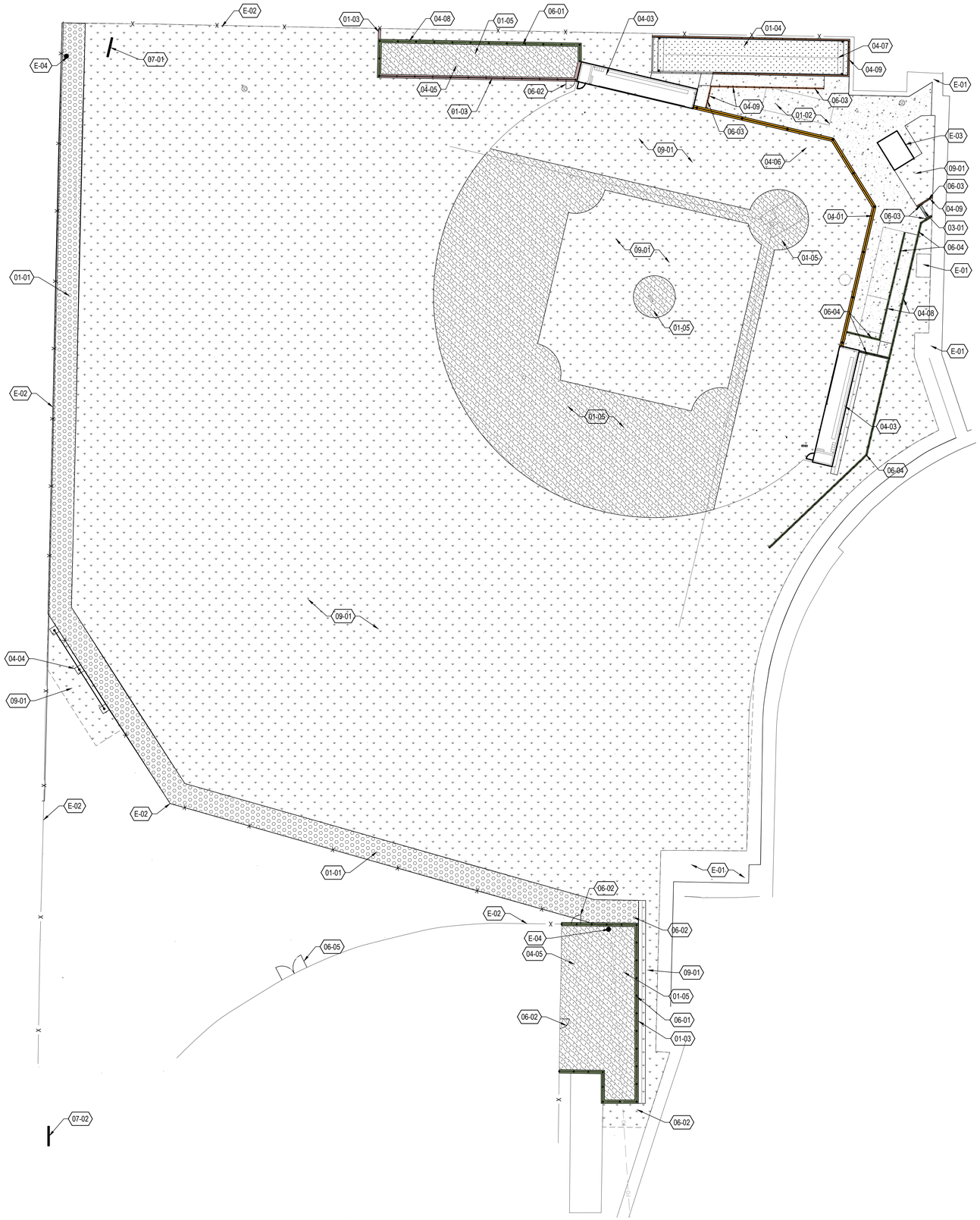
NO.	DATE:	DESCRIPTION

ISSUE
CONSTRUCTION DOCUMENTS
AUG. 18, 2022

SHEET NAME
UTILITY DETAILS

SHEET NUMBER
CU501

RETURN TO INDEX



E1 SITE PLAN

0 10' 20' 40'

SCALE: 1" = 20'-0"

N

REFERENCE NOTES SCHEDULE

	01 PAVEMENTS, RAMPS, CURBS		
CODE	DESCRIPTION	DETAIL	SPECIFICATION
01-01	WARNING TRACK SURFACING	E3/AS501	321826
01-02	CONCRETE PAVING- SEE CIVIL		321313
01-03	CONCRETE MOWSTRIP	D1/AS501	0330000
01-04	SYNTHETIC GRASS SURFACING		321813
01-05	INFIELD SURFACING		321827

	03 STEPS		
CODE	DESCRIPTION	DETAIL	SPECIFICATION
03-01	CONCRETE STAIRS		033300

	04 WALLS AND EMBANKMENTS		
CODE	DESCRIPTION	DETAIL	SPECIFICATION
04-01	40' HIGH BACKSTOP WITH SAFETY NETTING & CONCRETE RETAINING WALL TO REPLACE EXISTING	E3/AS502	0330000 & 116633
04-03	DUGOUT- SEE ARCHITECTURAL DWGS		
04-04	BATTERS EYE		
04-05	BULLPEN	B1/AS502	
04-06	BACKSTOP		
04-07	BATTING CAGE		
04-08	10" CONCRETE CURB RETAINING		
04-09	8" CONCRETE CURB RETAINING		

	06 RAILINGS, BARRIERS, FENCING		
CODE	DESCRIPTION	DETAIL	SPECIFICATION
06-01	6'-0" TALL CHAINLINK FENCE	E2/AS501	323113
06-02	4'-0" CHAINLINK SWING GATE		323113
06-03	HANDRAIL	D1/AS503	
06-04	GUARDRAIL	A1/AS502	
06-05	12'-0" CHAINLINK SWING GATE		

	07 SITE LIGHTING	
CODE	DESCRIPTION	DETAIL
07-01	REMOVE & REINSTALL EXISTING SCOREBOARD TO THIS LOCATIONS- SEE ELECTRICAL	
07-02	REMOVE AND INSTALL NEW SOFTBALL SCOREBOARD- SEE ELECTRICAL	

	09 LANDSCAPE AND IRRIGATION	
CODE	DESCRIPTION	DETAIL
09-01	LANDSCAPE AREA	

	EXISTING	
CODE	DESCRIPTION	DETAIL
E-01	EXISTING CONCRETE PAVING TO REMAIN	
E-02	EXISTING CHAINLINK FENCE TO REMAIN	
E-03	EXISTING ANNOUNCER BOOTH TO REMAIN	
E-04	EXISTING FOUL POLE TO REMAIN	

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OGDEN, UT 84403

SEAL

STATE OF UTAH
VINCENT RULON OLCOTT
No. 4812865
LICENSED LANDSCAPE ARCHITECT
08-18-2022

MHTN PROJECT NO. 2022539

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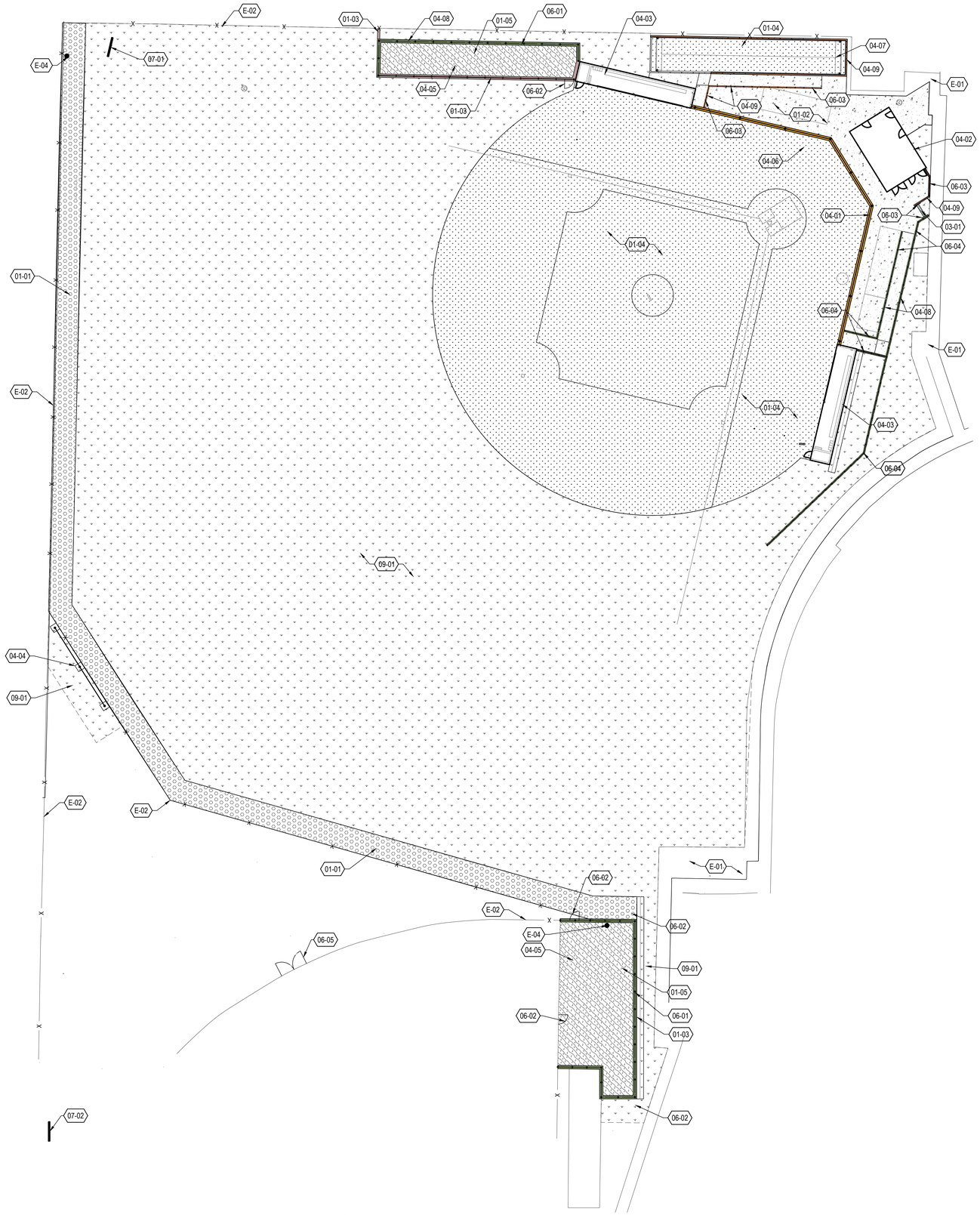
AUG. 18, 2022

SHEET NAME
OVERALL SITE PLAN

SHEET NUMBER
AS100

RETURN TO INDEX



E1 SITE PLAN- ALTERNATE

0 10' 20' 40'

SCALE: 1" = 20'-0"

N

REFERENCE NOTES SCHEDULE

	01 PAVEMENTS, RAMPS, CURBS		
CODE	DESCRIPTION	DETAIL	SPECIFICATION
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01-02	CONCRETE PAVING- SEE CIVIL		321313
01-03	CONCRETE MOWSTRIP	D1/AS501	0330000
01-04	SYNTHETIC GRASS SURFACING		321813
01-05	INFIELD SURFACING		321827
	03 STEPS		
CODE	DESCRIPTION	DETAIL	SPECIFICATION
03-01	CONCRETE STAIRS		033300
	04 WALLS AND EMBANKMENTS		
CODE	DESCRIPTION	DETAIL	SPECIFICATION
04-01	40' HIGH BACKSTOP WITH SAFETY NETTING & CONCRETE RETAINING WALL TO REPLACE EXISTING	E3/AS502	0330000 & 116633
04-02	ANNOUNCERS BOOTH BUILDING TO REPLACE EXISTING- SEE ARCHITECTURAL DWGS		
04-03	DUGOUT- SEE ARCHITECTURAL DWGS		
04-04	BATTERS EYE		
04-05	BULLPEN	B1/AS502	
04-06	BACKSTOP		
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	07 SITE LIGHTING		
CODE	DESCRIPTION	DETAIL	
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07-02	REMOVE AND INSTALL NEW SOFTBALL SCOREBOARD- SEE ELECTRICAL		
	09 LANDSCAPE AND IRRIGATION		
CODE	DESCRIPTION	DETAIL	
09-01	LANDSCAPE AREA		
	EXISTING		
CODE	DESCRIPTION	DETAIL	
E-01	EXISTING CONCRETE PAVING TO REMAIN		
E-02	EXISTING CHAINLINK FENCE TO REMAIN		
E-04	EXISTING FOUL POLE TO REMAIN		

LIST OF BID ALTERNATES

BID ALTERNATE NO. 1:
1. DEMOLISH AND REMOVE EXISTING ANNOUNCER BOOTH BUILDING AND ALTER EXISTING ASSOCIATED SITE UTILITIES.
2. PROVIDE ANNOUNCER BOOTH BUILDING AND ASSOCIATED SITE UTILITIES INDICATED

BID ALTERNATE NO. 2:
1. PROVIDE SYNTHETIC GRASS SURFACE AT INFIELD AREAS INDICATED IN LIEU OF TURFGRASS SOD AND INFIELD SOILS

BID ALTERNATE NO. 3:
1. PROVIDE CHAIN LINK FENCE FABRIC AT BACKSTOP IN LIEU OF TENSION BALL SAFETY NETTING.

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SEAL

STATE OF UTAH
VINCENT RULON OLCOTT
No. 4812885
LICENSED LANDSCAPE ARCHITECT
08-18-2022

MHTN PROJECT NO. 2022539

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SHEET NAME
SITE PLAN- ALTERNATE

SHEET NUMBER
AS100A

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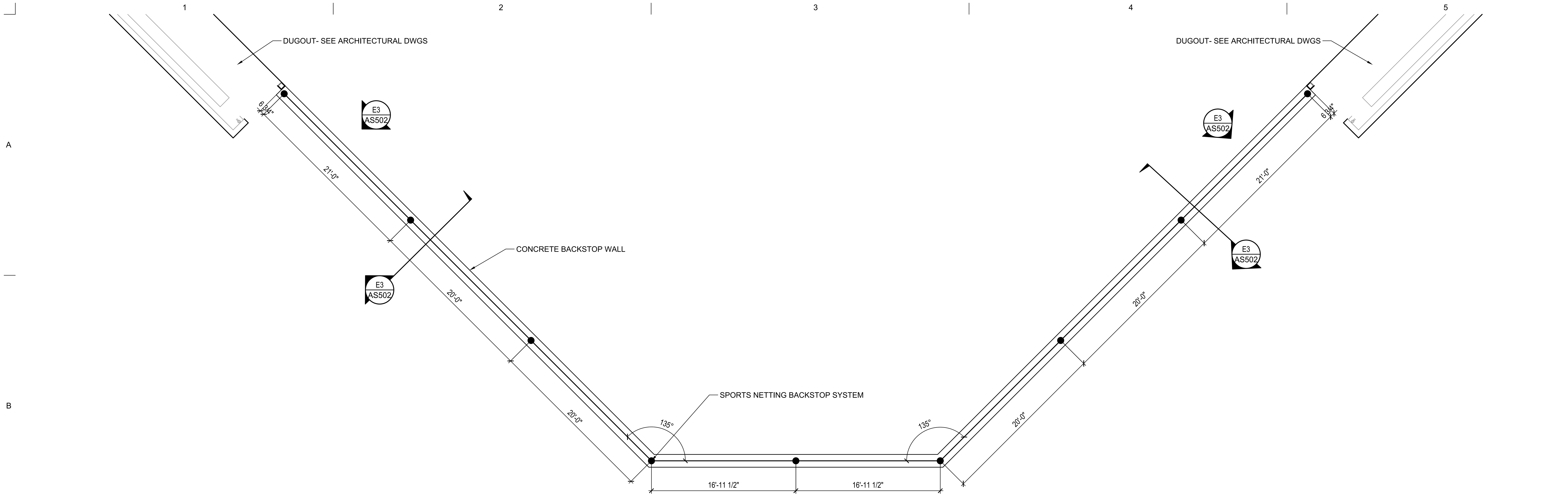
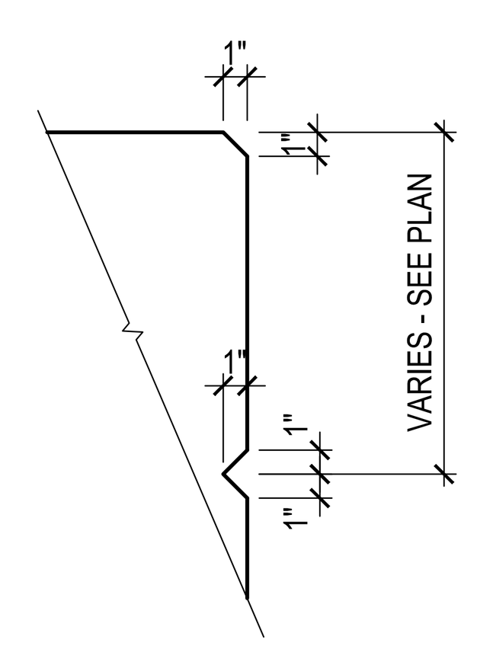
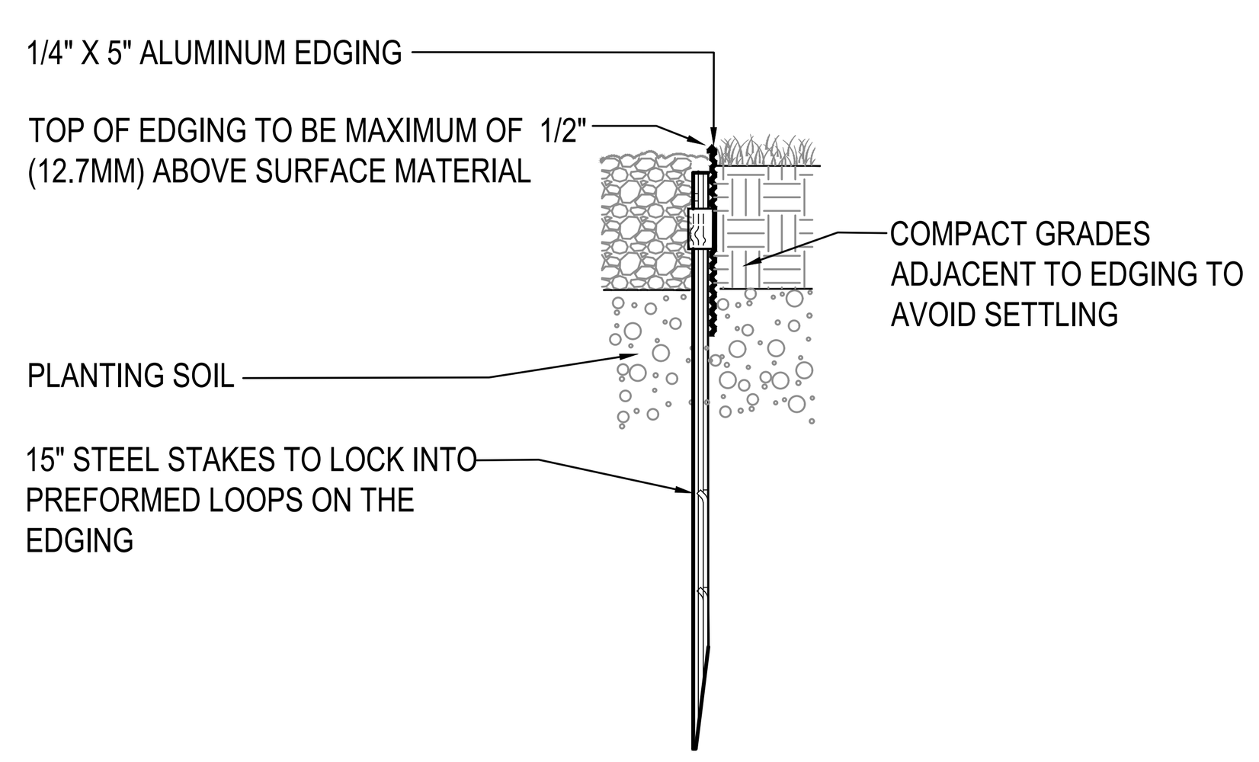


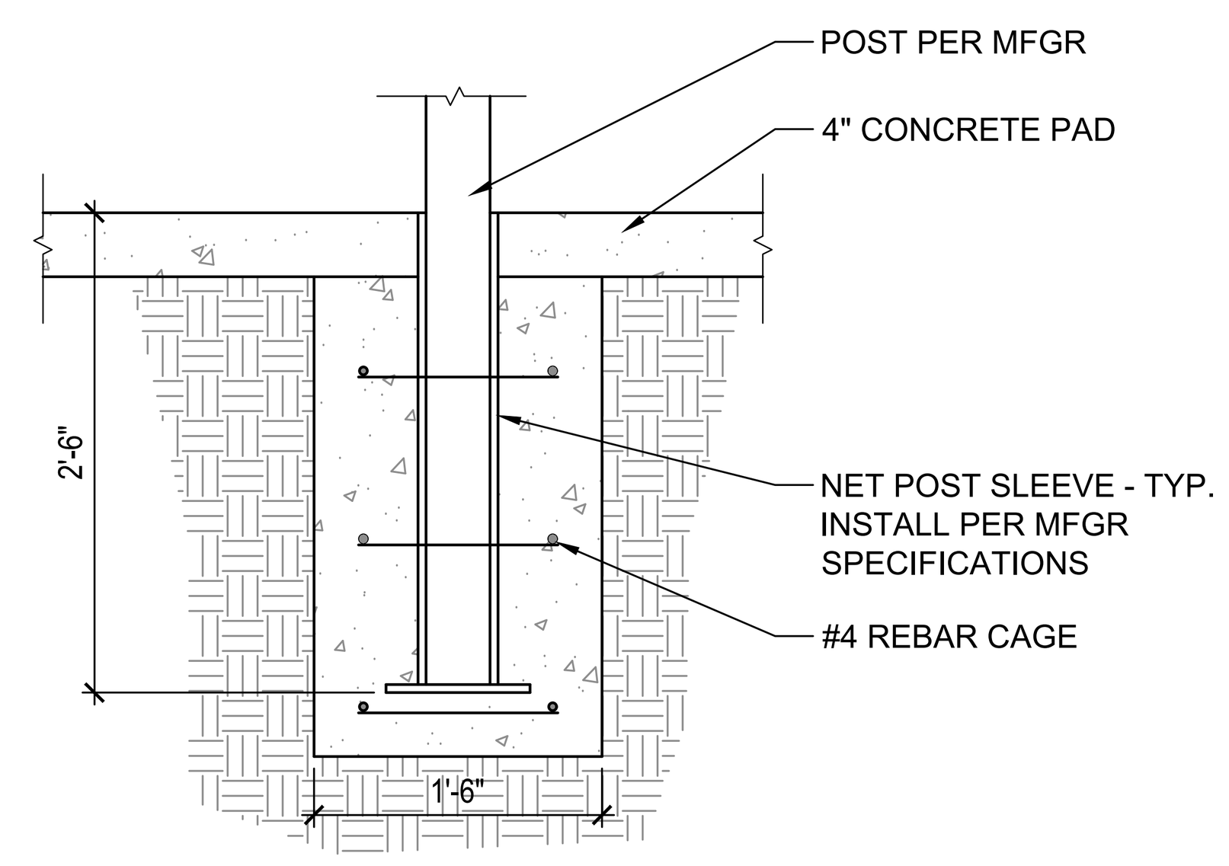
B1 BASEBALL BACKSTOP
3/16" = 1'-0"
OSD-OHB-116833-35



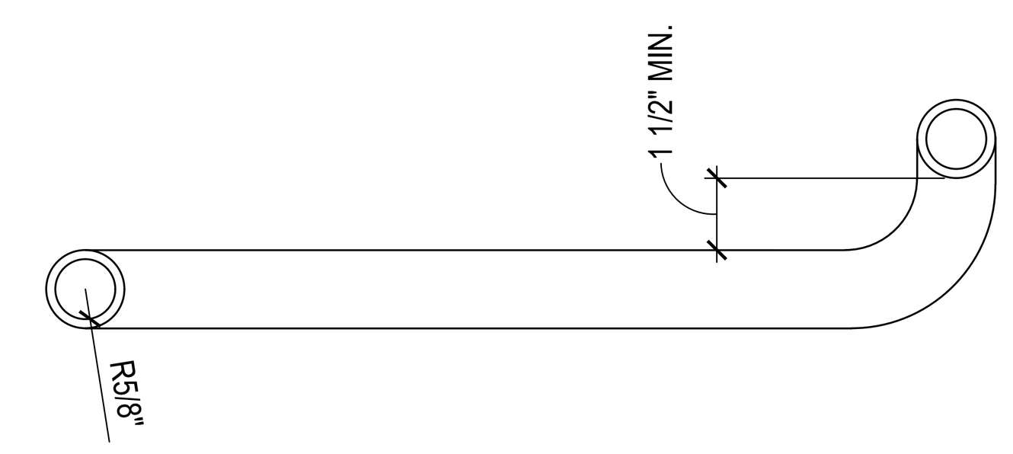
C1 V-GROOVE DETAIL - PLAN VIEW
1 1/2" = 1'-0"
OSD-OHB-033366-02



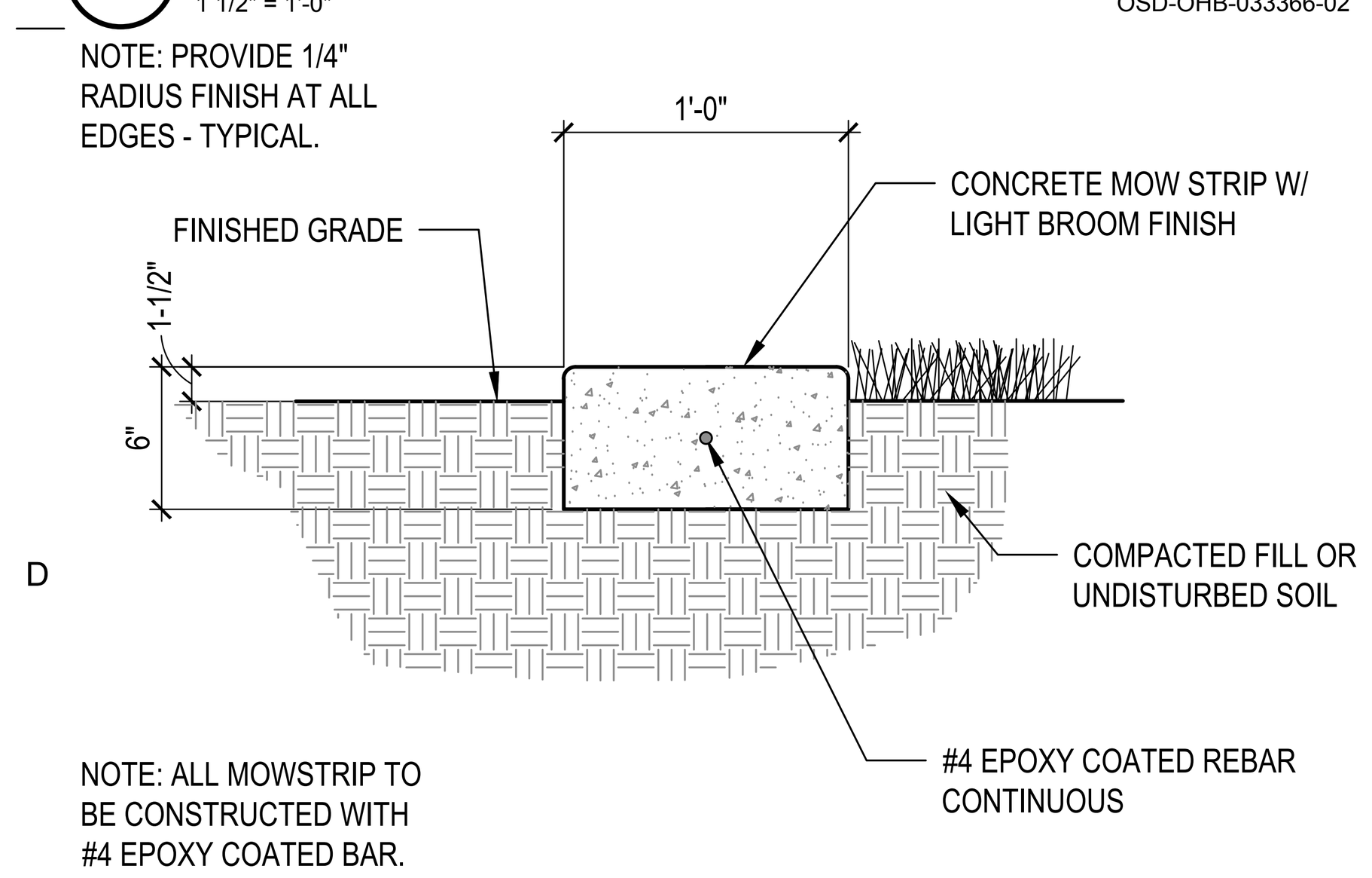
C2 TEMPORARY ALUMINUM EDGING
3" = 1'-0"
OSD-OHB-329413-01



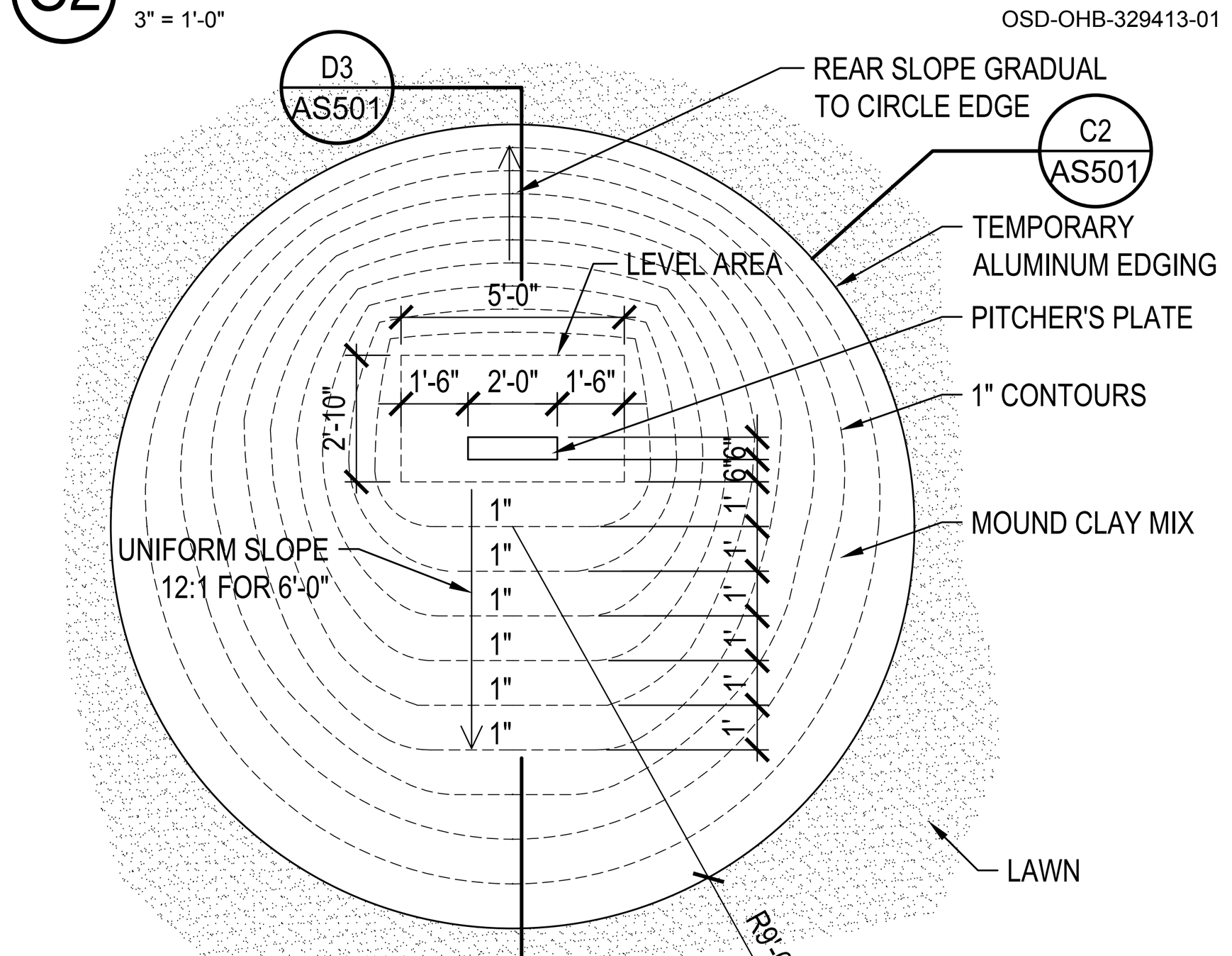
C3 BATTING CAGE POST SLEEVE
1" = 1'-0"
OSD-OHB-323113-01



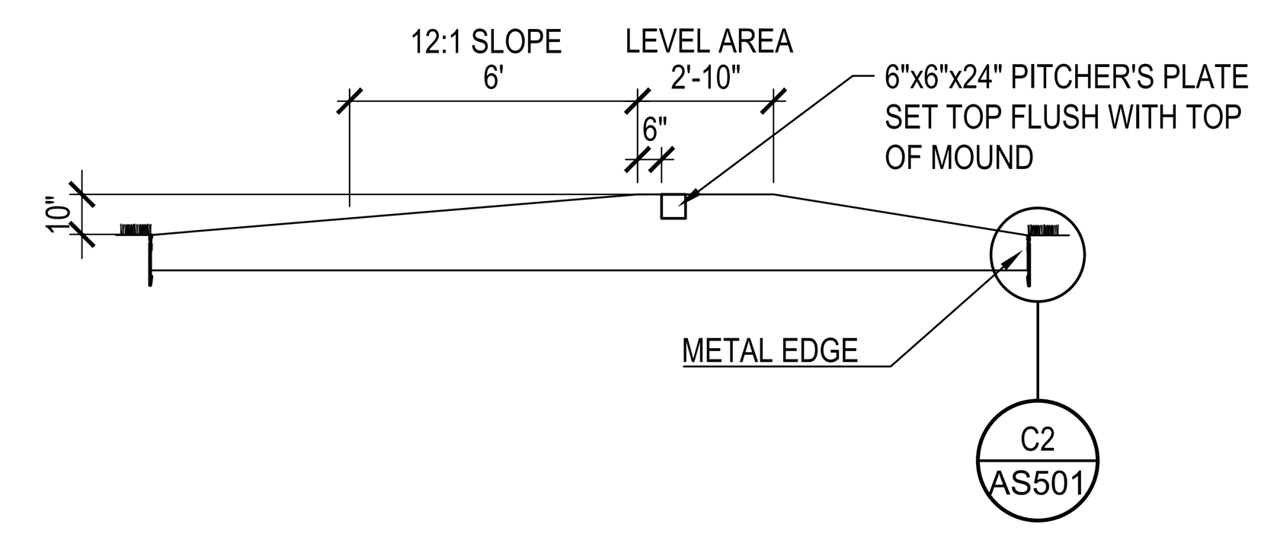
C4 HAND RAIL RETURN
3" = 1'-0"
OSD-OHB-055213-09



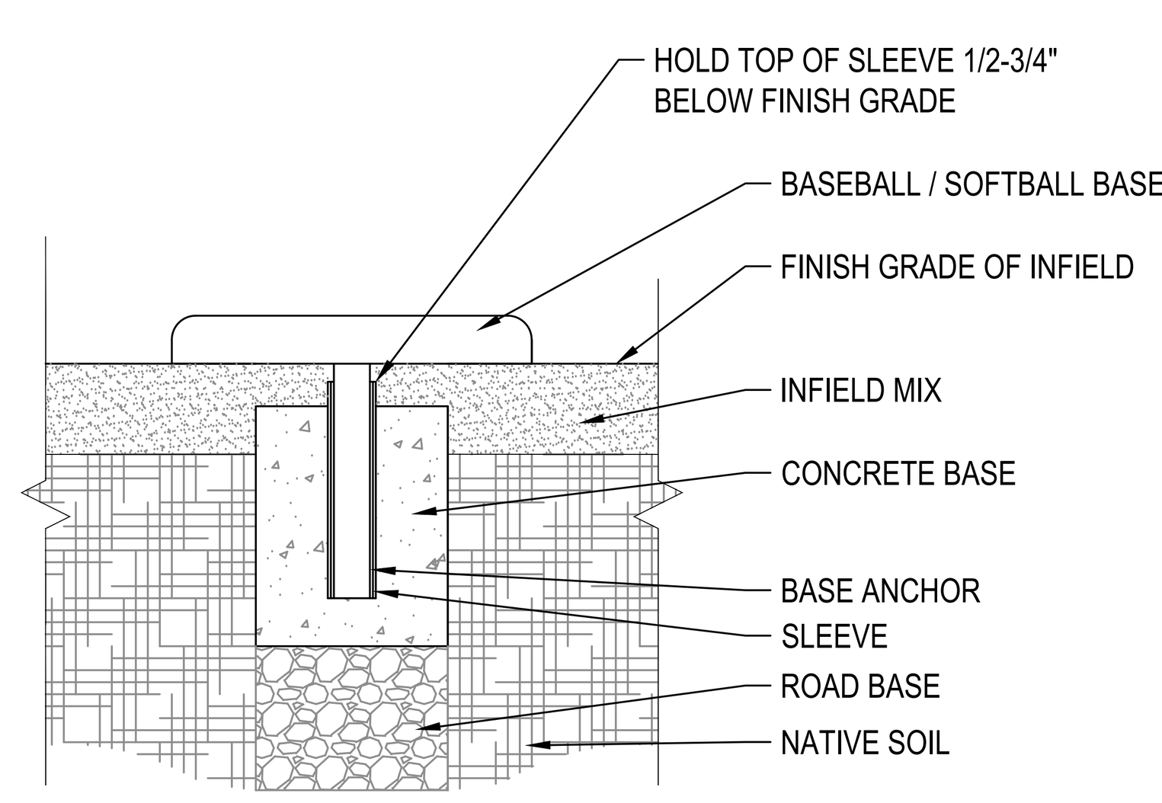
D1 12" CONCRETE MOWSTRIP
1 1/2" = 1'-0"
OSD-OHB-329413-02



D2 PITCHER'S MOUND
1/4" = 1'-0"
OSD-OHB-116833-47



D3 PITCHER'S MOUND SECTION
1/4" = 1'-0"
OSD-OHB-116833-48



D4 BASEBALL/SOFTBALL BASE
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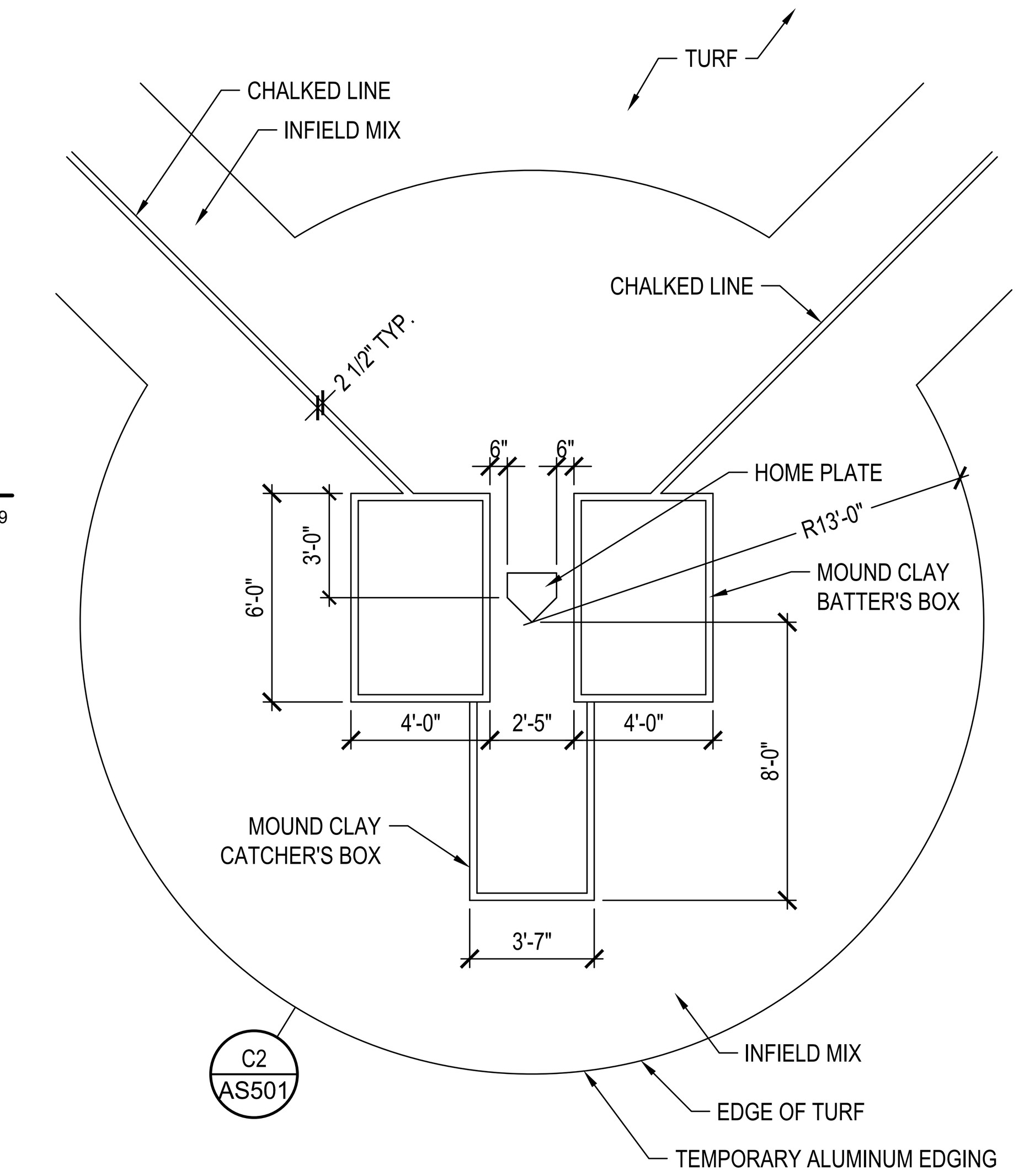
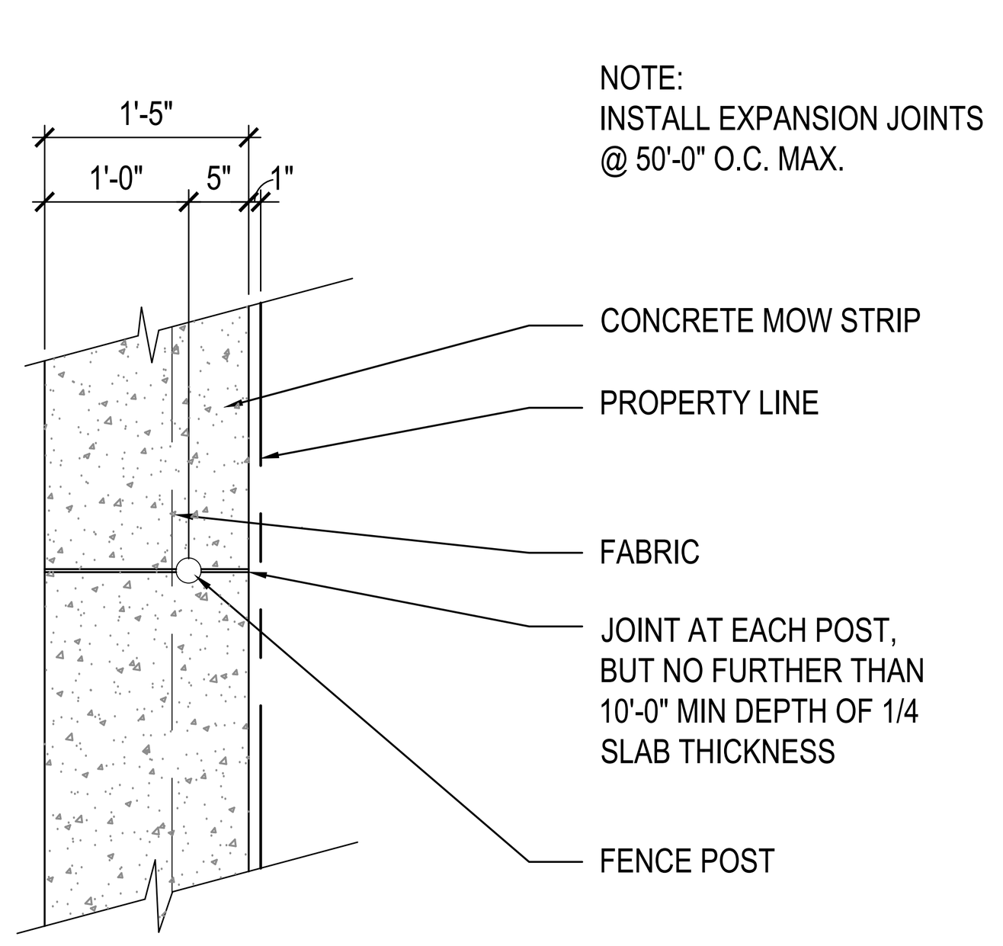
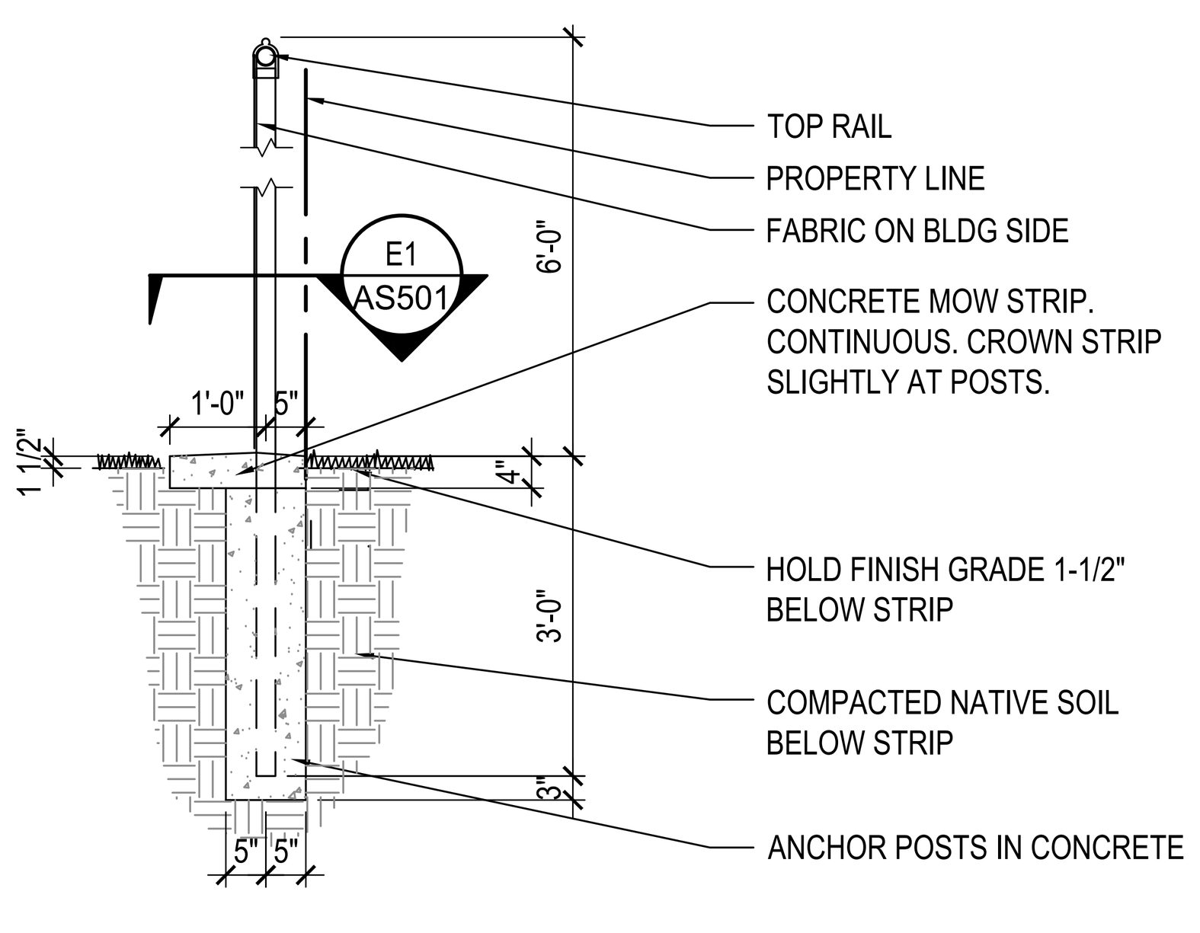
OSD-OHB-116833-44



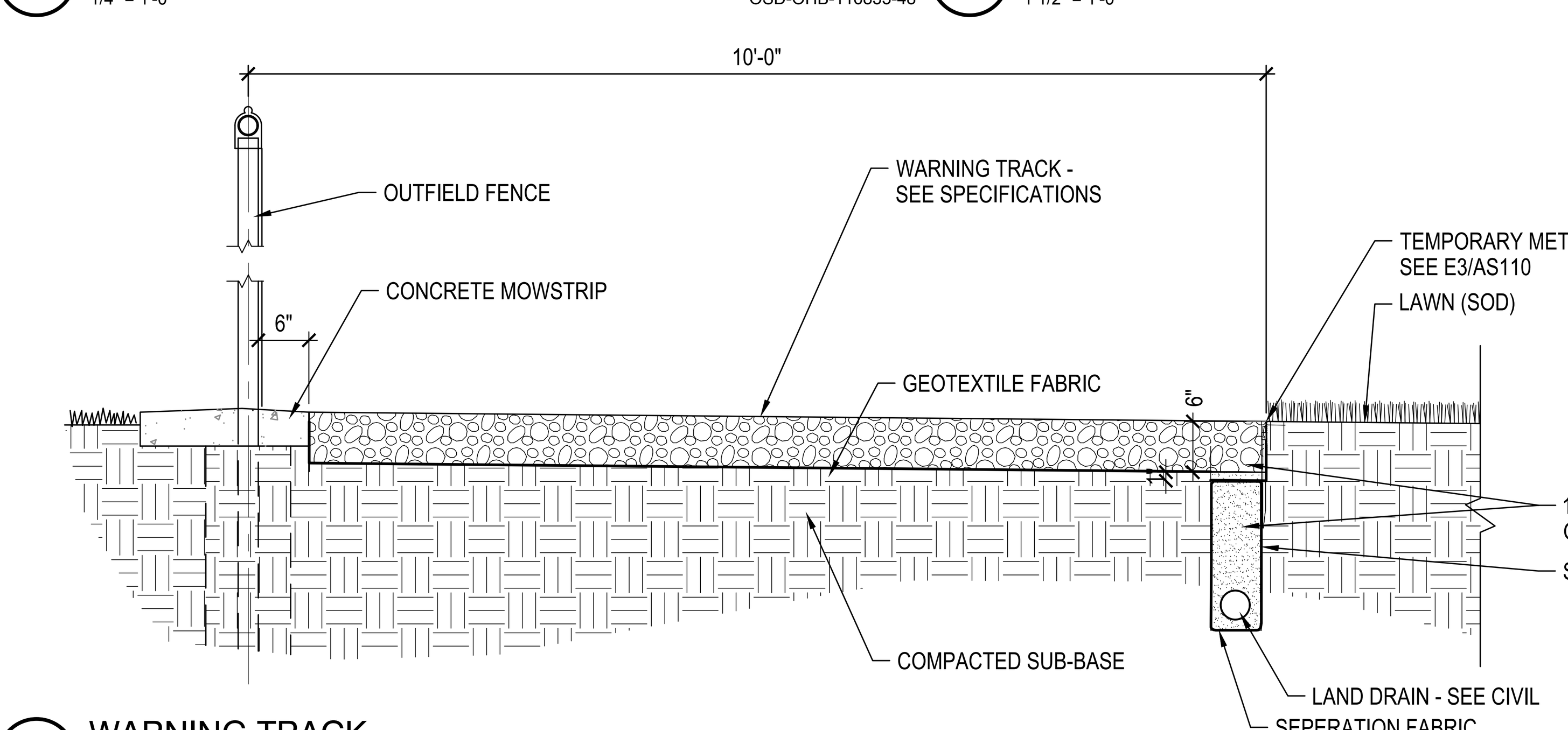
D5 HOME PLATE
1/4" = 1'-0"
OSD-OHB-116833-46



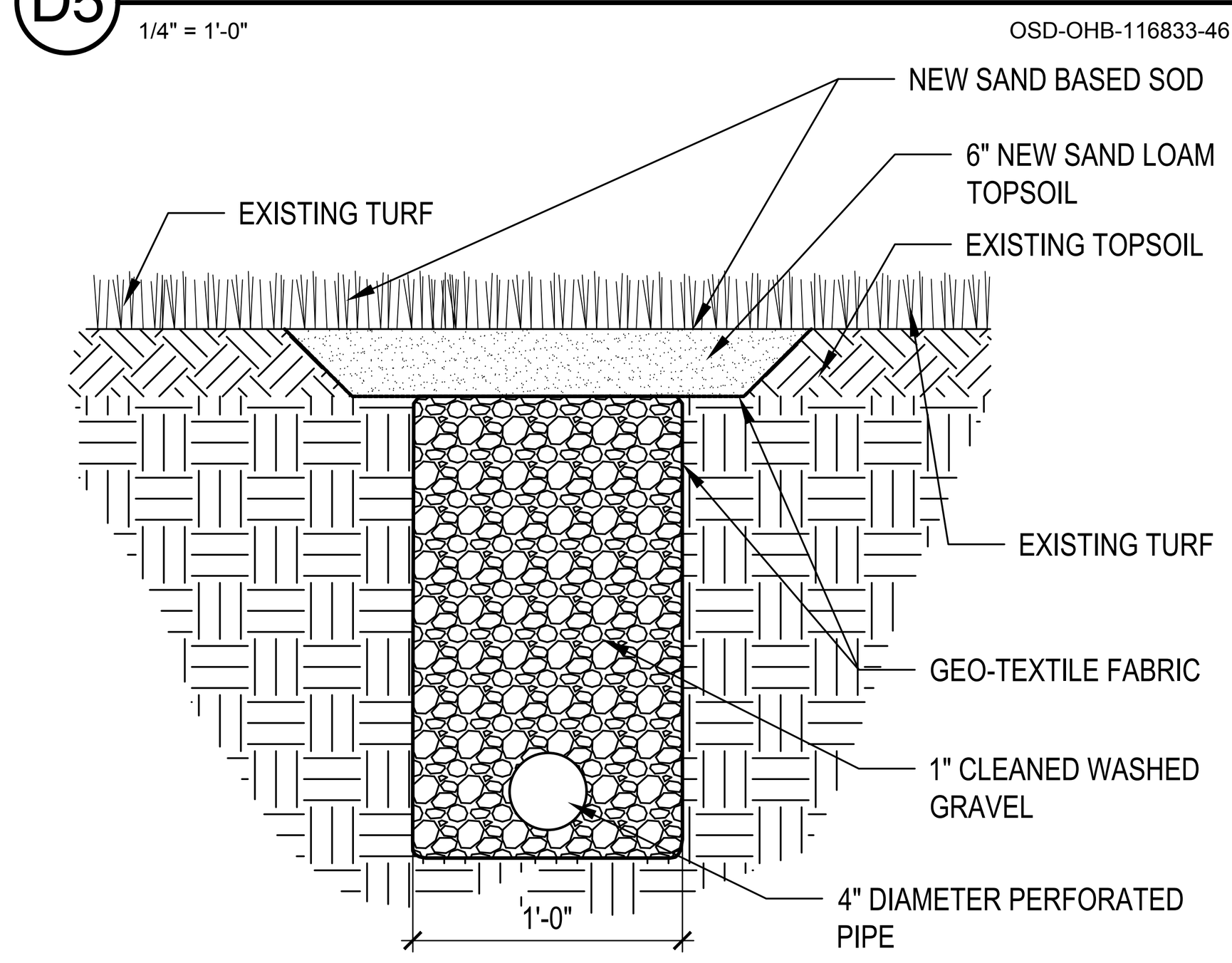
E1 FENCE W/ 17" CONC. CURB PLAN
3/4" = 1'-0"
OSD-OHB-323113-05



E2 FENCE W/ 17" CONC. CURB SECTION
1/2" = 1'-0"
OSD-OHB-323113-06



E3 WARNING TRACK
3/4" = 1'-0"
OSD-OHB-321313-02



E5 LAND DRAIN
1 1/2" = 1'-0"
OSD-OHB-323001-02

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OGDEN, UT 84403

SEAL
STATE OF UTAH – VINCENT RULON OLCOTT – No. 4812065 – LICENSED LANDSCAPE ARCHITECT – 08-18-2022

MHTN PROJECT NO. 2022539
VIEW AND PRINT THIS DRAWING IN COLOR
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REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

NO.	DATE	DESCRIPTION

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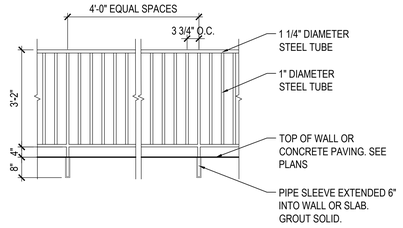
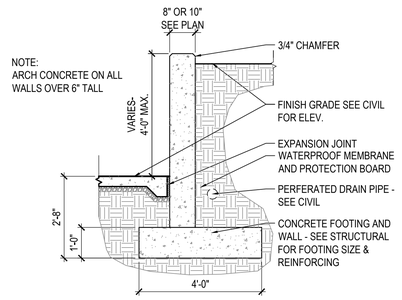
SHEET NAME
SITE DETAILS
SHEET NUMBER
AS501

RETURN TO INDEX



A1 STAINLESS STEEL GUARDRAIL

1/2" = 1'-0"

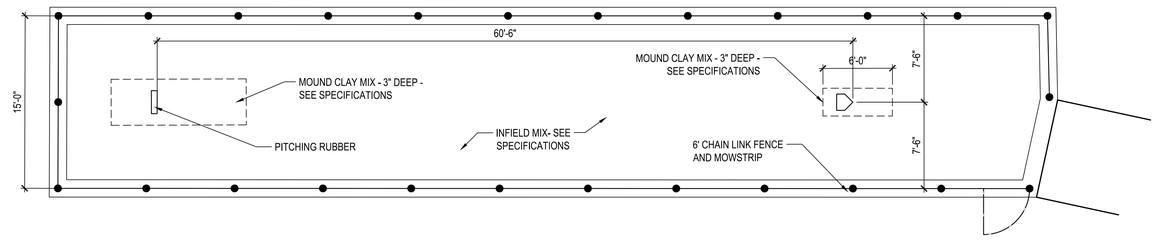


A2 CONCRETE RETAINING WALL

1/2" = 1'-0"

DETAIL-FILE

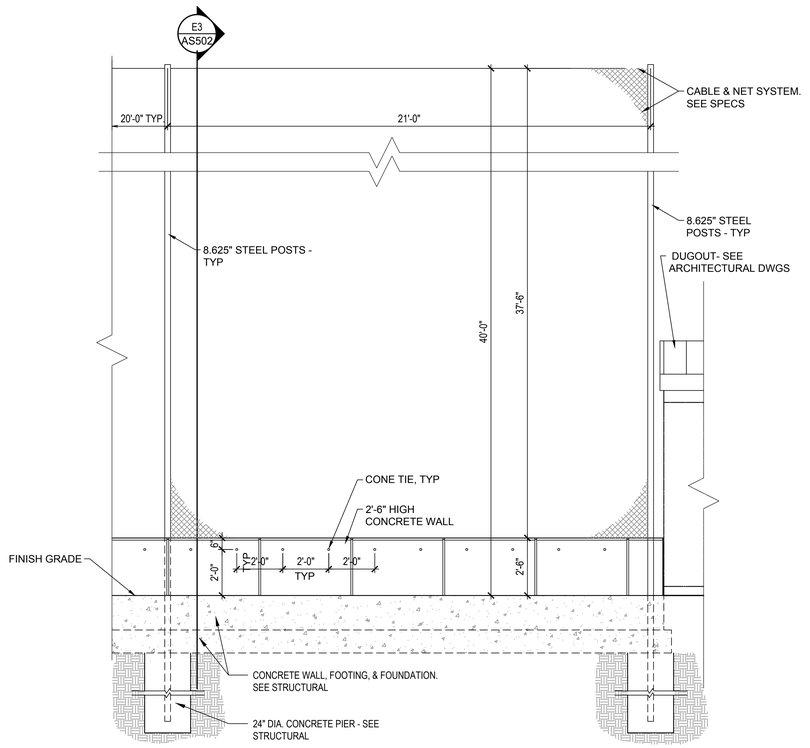
OSD-OHB-033366-04



B1 BULL PEN LAYOUT

3/16" = 1'-0"

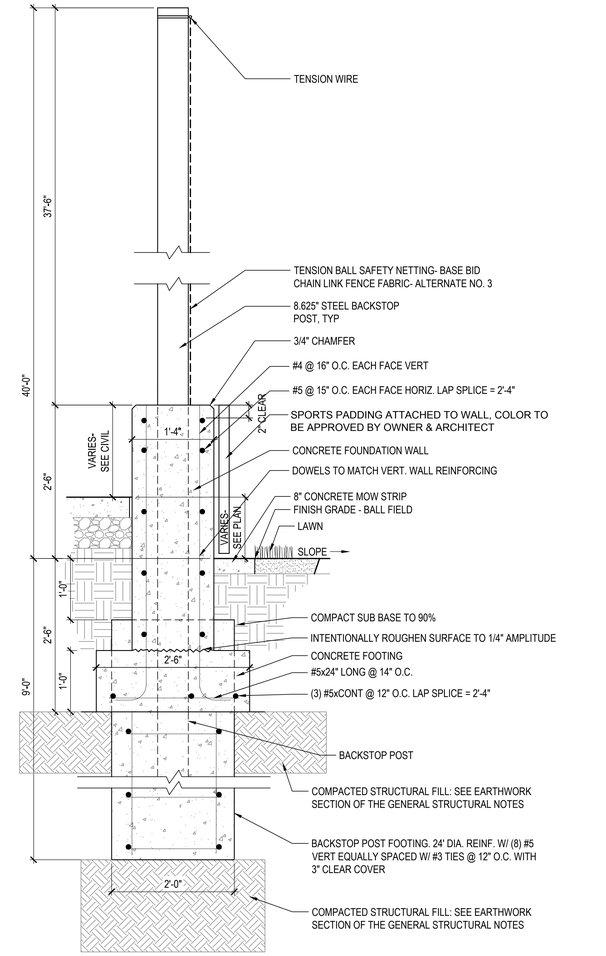
OSD-OHB-116833-14



E1 BASEBALL BACKSTOP ELEVATION

3/8" = 1'-0"

OSD-OHB-116833-16



E3 BASEBALL CONCRETE WALL AND BACKSTOP POST

1" = 1'-0"

OSD-OHB-116833-10

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OGDEN HIGH SCHOOL BASEBALL FIELD RENOVATION
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OGDEN, UT 84403

SEAL

STATE OF UTAH
VINCENT RULON OLCOTT
No. 4812865
LICENSED LANDSCAPE ARCHITECT
08-18-2022

MHTN PROJECT NO. 2022539

VIEW AND PRINT THIS DRAWING IN COLOR

Original drawing is 30 x 42. Do not scale contents of this drawing.

REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

NO.	DATE	DESCRIPTION
NO.	DATE	DESCRIPTION

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CONSTRUCTION DOCUMENTS
AUG. 18, 2022

SHEET NAME
SITE DETAILS

SHEET NUMBER
AS502

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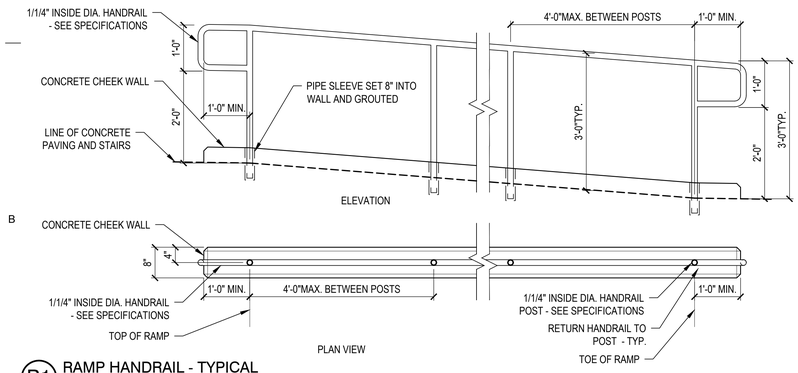
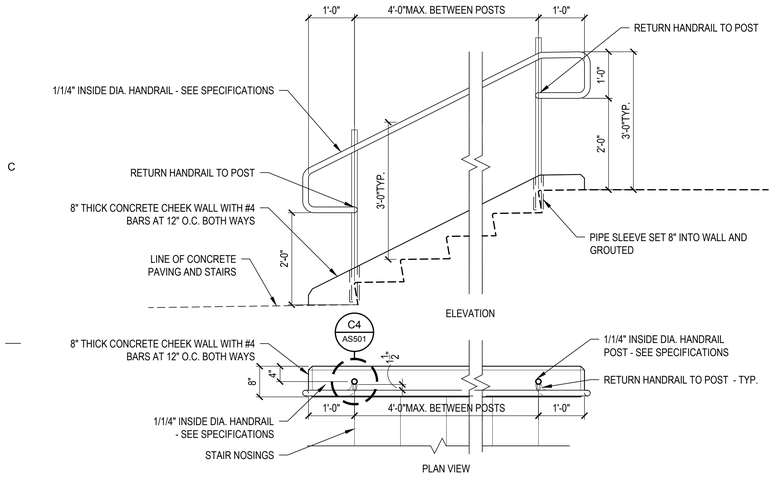


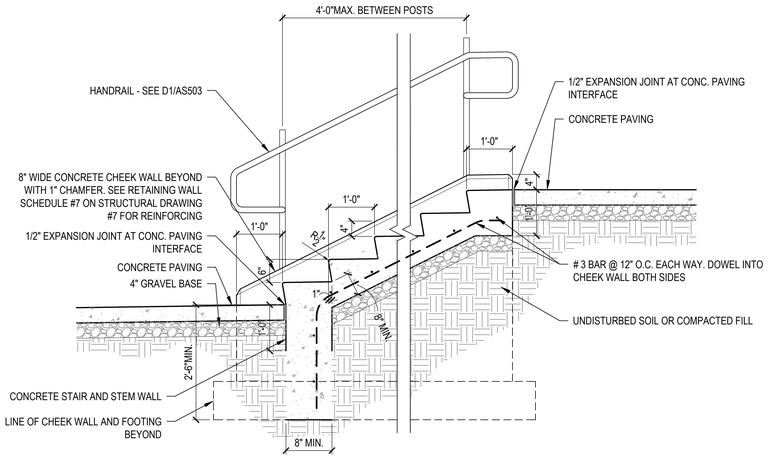
B1 RAMP HANDRAIL - TYPICAL

3/4" = 1'-0" OSD-OHB-055213-16



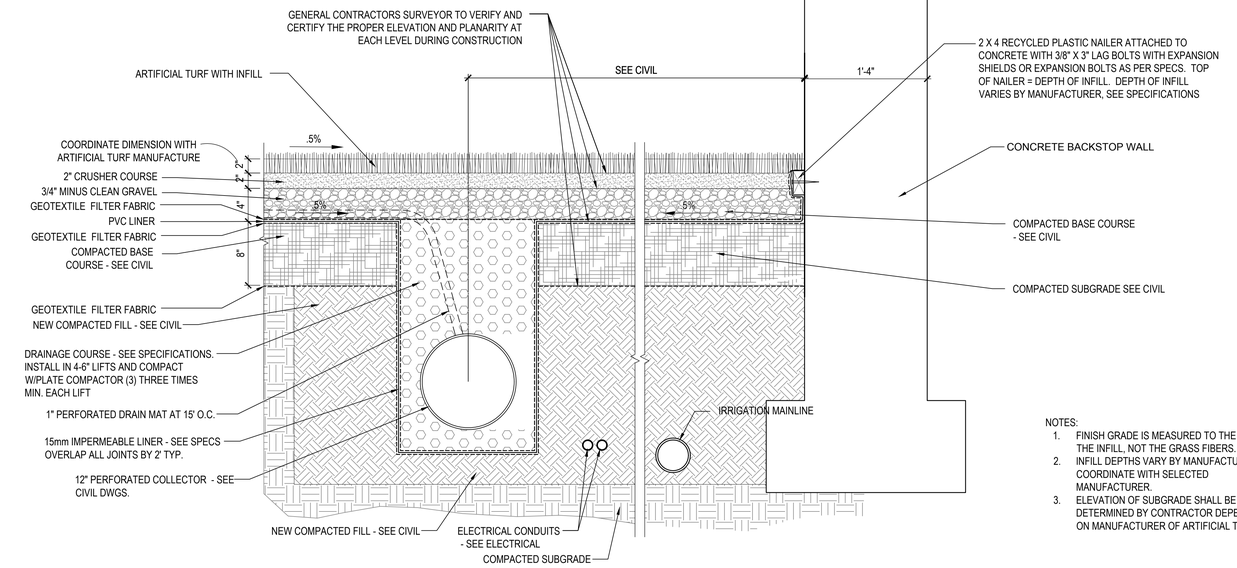
D1 STAIR HANDRAIL - TYPICAL

3/4" = 1'-0" OSD-OHB-055213-14



E1 CONCRETE STAIR WITH CHEEK WALL DETAIL - TYPICAL

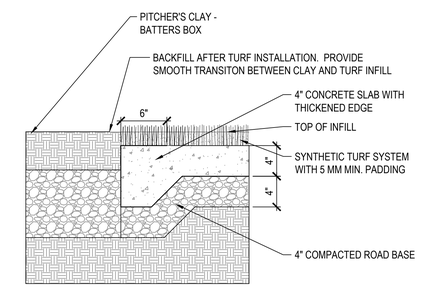
3/4" = 1'-0" OSD-OHB-033010-03



NOTES:
1. FINISH GRADE IS MEASURED TO THE TOP OF THE INFILL, NOT THE GRASS FIBERS.
2. INFILL DEPTHS VARY BY MANUFACTURER, COORDINATE WITH SELECTED MANUFACTURER.
3. ELEVATION OF SUBGRADE SHALL BE DETERMINED BY CONTRACTOR DEPENDING ON MANUFACTURER OF ARTIFICIAL TURF.

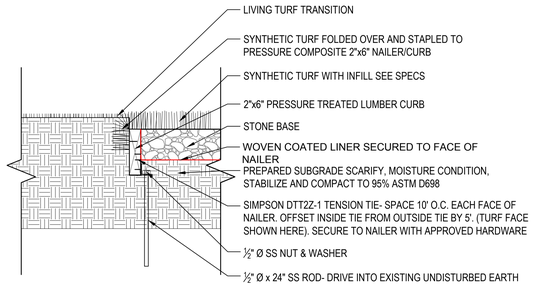
C3 DRAIN AT BACKSTOP

1 1/2" = 1'-0" OSD-OHB-116833-08



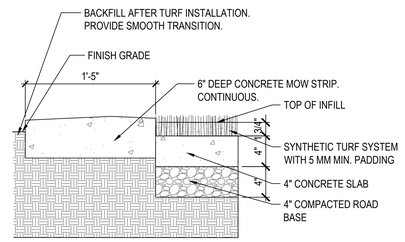
D3 PITCHER'S MOUND CURB / SYNTHETIC TURF

1 1/2" = 1'-0" OSD-OHB-321613-01



E3 SYNTHETIC TURF EDGE TRANSITION

1 1/2" = 1'-0" OSD-OHB-321823-10



E5 SYNTHETIC TURF AT MOW STRIP

1 1/2" = 1'-0" C-ABS-321823-07

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MHTN PROJECT NO. 2022539

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REVISIONS
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SITE DETAILS

SHEET NUMBER
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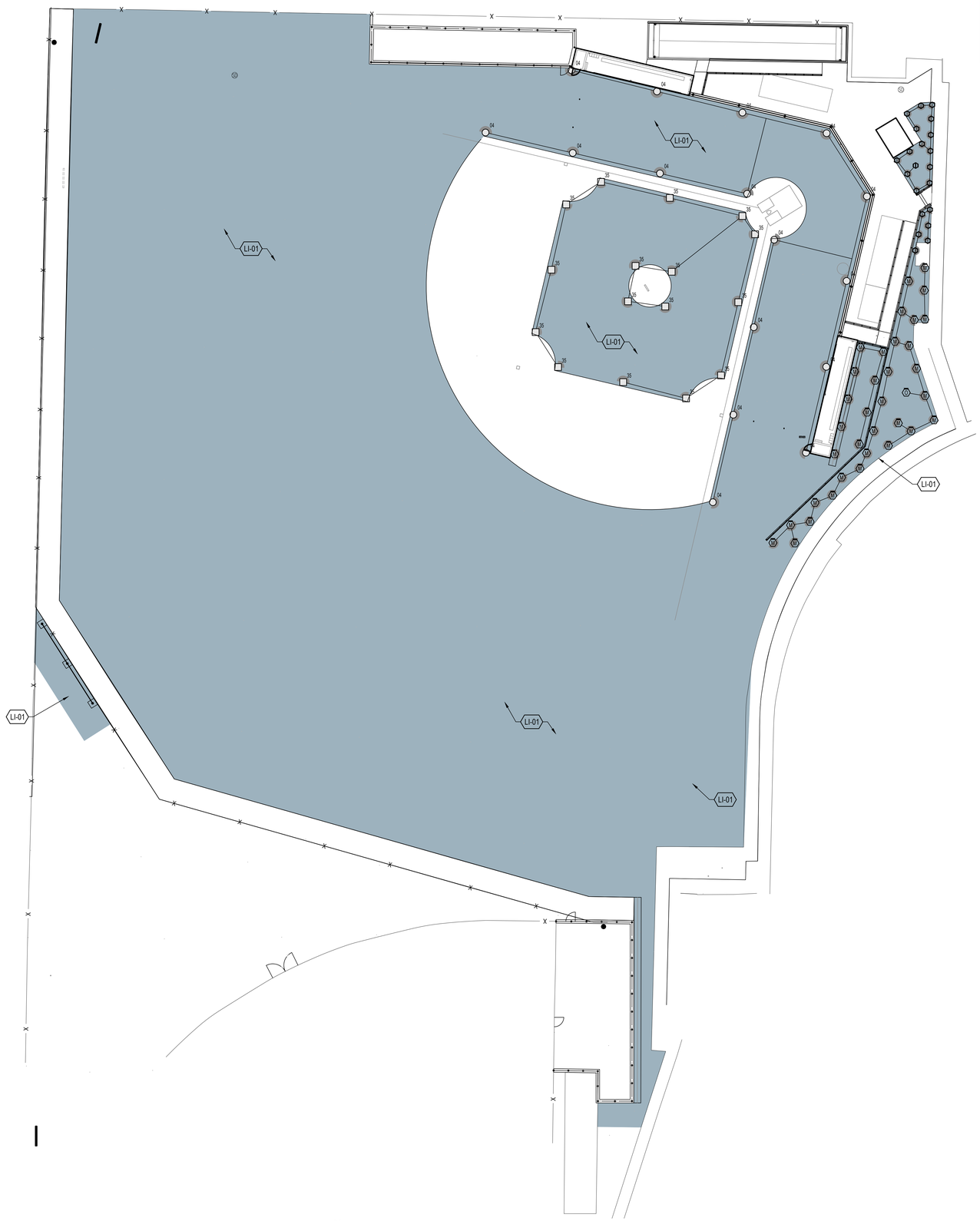


E1 IRRIGATION PLAN

0 10' 20' 40'

SCALE: 1" = 20'-0"

N

REFERENCE NOTES

	IRRIGATION	
CODE	DESCRIPTION	DETAIL
LI-01	PATCH AND REPAIR EXISTING IRRIGATION AS REQUIRED DUE TO CONSTRUCTION OPERATIONS. FIELD VERIFY ALL IRRIGATION EQUIPMENT, SIZE, AND LOCATION PRIOR TO CONSTRUCTION.	

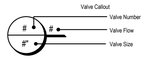
IRRIGATION REMODEL NOTES

1. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF THE EXISTING SPRINKLER IRRIGATION SYSTEM IN TERMS OF FLOW CAPACITY, VALVE WIRING, VALVE AND HEAD LAYOUT AND CONTROLLER CAPACITY.
2. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE REMODEL OF A SECTION OF THE EXISTING IRRIGATION SYSTEM AS SHOWN AND FOR PROVIDING FOR FULL COVERAGE OF ALL SYSTEM HEADS AND FOR THE FULL AND COMPLETE OPERATION OF BOTH THE NEW AND EXISTING SYSTEM IN THE AREAS BEING MODIFIED.
3. THIS CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK AND TIMES WITH THE OWNER.
4. MAINTAIN AND PROTECT AS MUCH OF THE EXISTING IRRIGATION SYSTEM AS POSSIBLE AND FEASIBLE AND STILL PROVIDE FOR FULL COVERAGE OF THE ENTIRE AREA. KEEP ALL LAWN AREA HEADS ON A SEPARATE CIRCUIT FROM SHRUB AREA HEADS.
5. THE EXISTING IRRIGATION SYSTEMS NOTED TO REMAIN IN USE SHALL BE PATCHED AND REPAIRED AS NECESSARY. MAINTAIN OPERATION OF THE EXISTING SYSTEM AS REQUIRED TO PROTECT EXISTING PLANT MATERIAL. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE OR DEATH OF EXISTING PLANT MATERIAL.
6. ALL SALVAGED HEADS SHALL BE RE-USED IN THE NEW SYSTEM, IF COMPATIBLE WITH NEW HEADS, OR RETURNED TO THE OWNER.
7. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE EXISTING VALVE WIRING AND RE-ROUTING AS SHOWN AND AS REQUIRED. MINIMIZE THE USE OF WIRE SPLICES. PROVIDE TEMPORARY WIRING AS REQUIRED TO KEEP THE EXISTING SYSTEM IN OPERATION.
8. REPAIR DAMAGE TO EXISTING IRRIGATION SYSTEM AND LAWN RESULTING FROM CONSTRUCTION OPERATIONS.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	RADIUS
M A O	HUNTER MP1000 PROS-04-PRS40-CV-F-R TURF ROTATOR, 4" POP-UP WITH CHECK VALVE, FLOGUARD, RECLAIMED BODY CAP. PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. M=MAROON ADJ ARC 90 TO 210, L=LIGHT BLUE 210 TO 270 ARC, O=OLIVE 360 ARC.		
800 A 800 F	HUNTER MP800SR PROS-04-PRS40-CV-F-R TURF ROTATOR, 4" POP-UP WITH CHECK VALVE, FLOGUARD, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. ADJ=ORANGE AND GRAY (ARC 90-210), 360=LIME GREEN AND GRAY (ARC 360)		
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	RADIUS
35	RAIN BIRD 5006-PL-PC-SAM-R-NP-SS-MPR TURF ROTOR, 6" POP-UP, STAINLESS STEEL RISER, W/FLOW SHUT-OFF DEVICE. MATCHED PRECIPITATION ROTOR (MPR NOZZLE) ARC AND RADIUS AS PER SYMBOL. 25 FT=RED, 30 FT=GREEN, 35FT=BEIGE. WITH CHECK VALVE, IN-STEM PRESSURE REGULATOR, AND NON POTABLE PURPLE CAP.	45	35'
04	RAIN BIRD 8005-SS TURF ROTOR, 5" POP-UP, STAINLESS STEEL RISER, STANDARD NOZZLE. WITH SEAL-A-MATIC CHECK VALVE, ADJUSTABLE 50-330 ARC, AND 360 NON-REVERSING FULL-CIRCLE. 1" (26/34) NPT FEMALE THREADED INLET. EXTENDED RADIUS IS IDEAL FOR LARGE TURF APPLICATIONS.	50	39'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION		
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40		

Valve Callout



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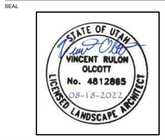

MHTN PROJECT NO. 2022539

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SHEET NAME
IRRIGATION PLAN

SHEET NUMBER
LI100

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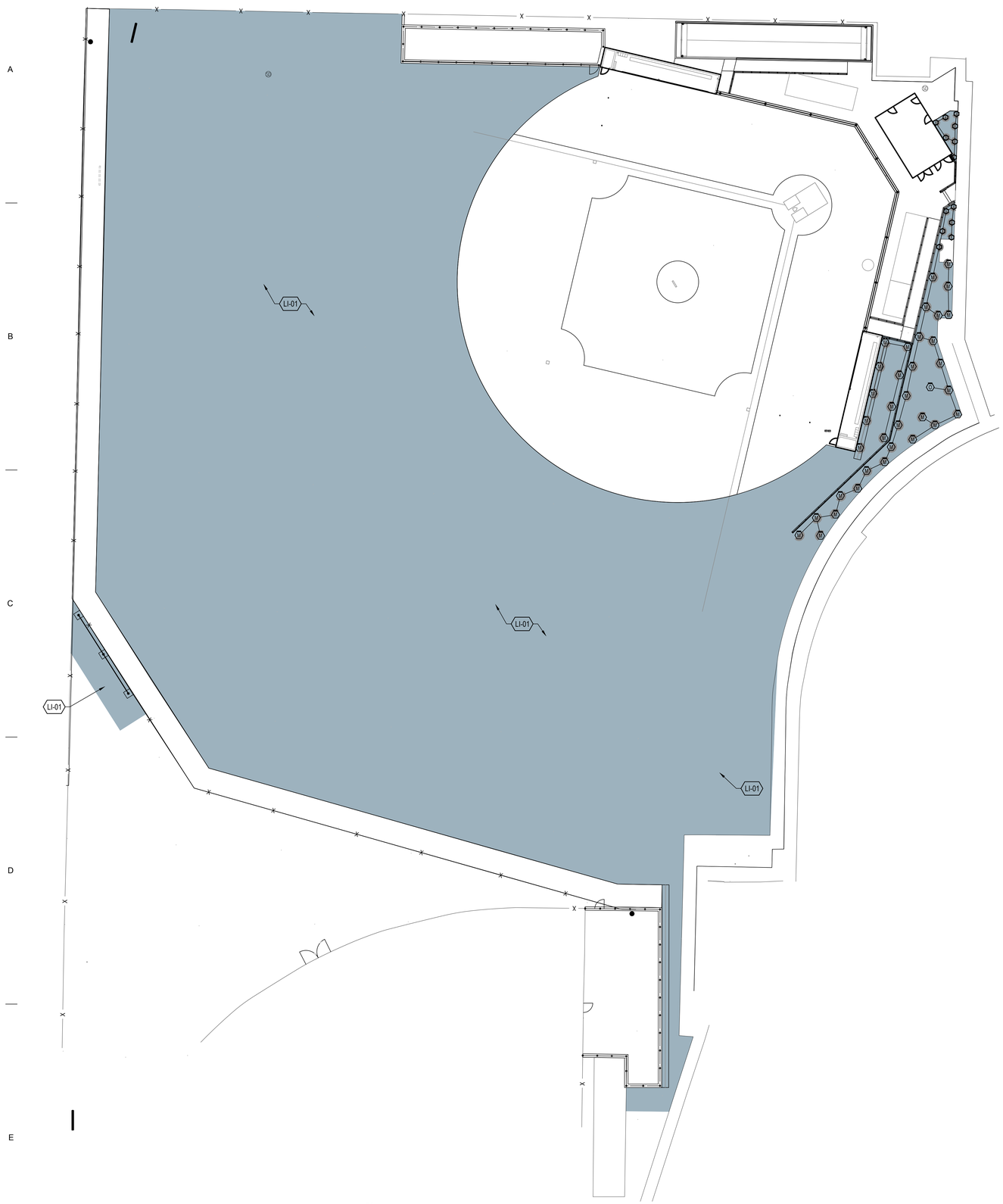

E1 IRRIGATION PLAN- ALTERNATE

0 10' 20' 40'

SCALE: 1" = 20'-0"

N

REFERENCE NOTES

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CODE	DESCRIPTION	DETAIL
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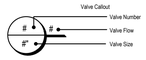
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION		
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40		

Valve Callout



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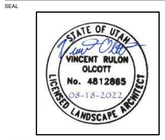

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SHEET NAME
IRRIGATION PLAN- ALTERNATE

SHEET NUMBER
LI100A

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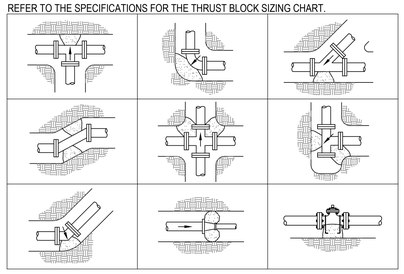
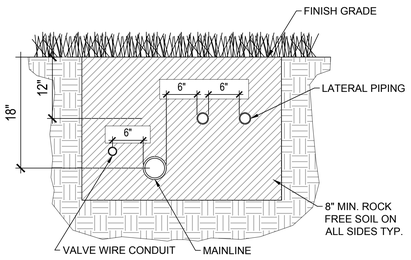
NOTE:
REFER TO THE SPECIFICATIONS FOR THE THRUST BLOCK SIZING CHART.

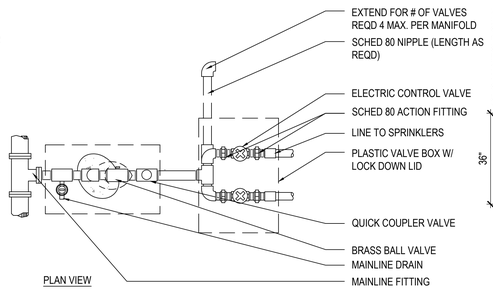


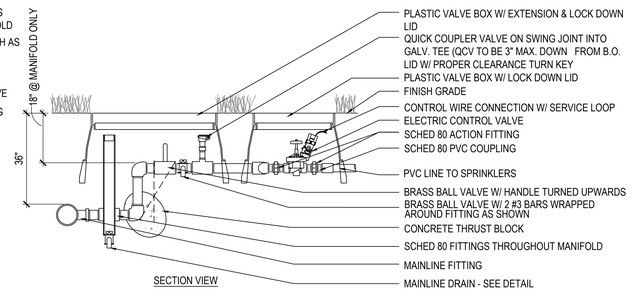


C1 THRUST BLOCKING
1" = 1"
OSD-OHB-328409-10

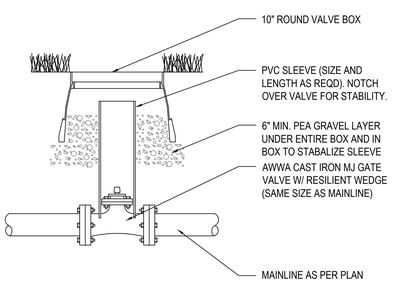
C2 TRENCH DETAIL TYP.
1" = 1'-0"
OSD-OHB-328409-16

NOTES:
1. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF THE CONTROL VALVE MANIFOLD SO THAT IT COMPLETELY DRAINS.
2. INSTALL SCHEDULE 80 FITTINGS THROUGHOUT THE MANIFOLD.
3. ALL VALVE BOXES SHALL SIT ON 12" MIN. GRAVEL LAYER.
4. CUT ALL VALVE BOXES AS REQD SO BOXES DO NOT SIT ON PIPING.

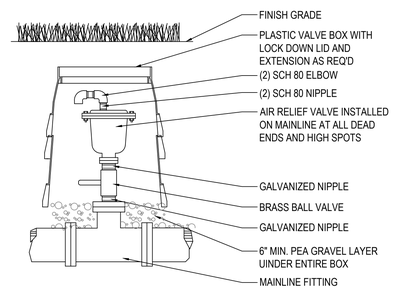




D1 CONTROL VALVE MANIFOLD
1" = 1"
OSD-OHB-328406-01

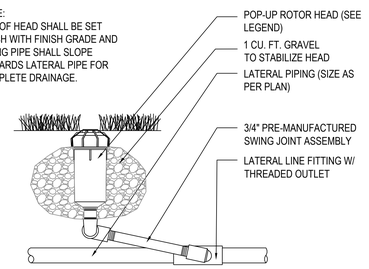


D4 MAINLINE ISOLATION VALVE
1" = 1"
OSD-OHB-328406-05



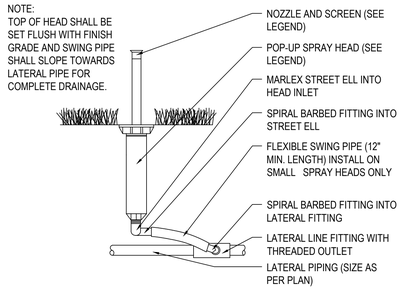
D5 AIR RELIEF VALVE
1" = 1"
OSD-OHB-328409-02

NOTE:
TOP OF HEAD SHALL BE SET FLUSH WITH FINISH GRADE AND SWING PIPE SHALL SLOPE TOWARDS LATERAL PIPE FOR COMPLETE DRAINAGE.

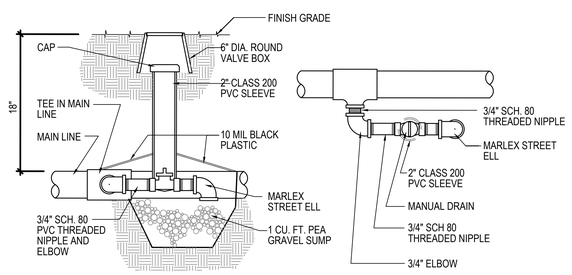


E1 POP-UP ROTOR HEAD
1" = 1"
OSD-OHB-328403-02

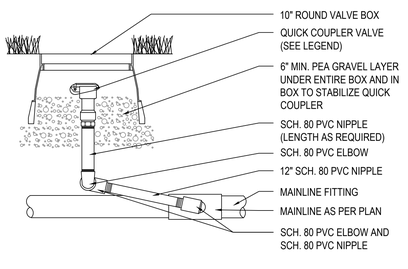
NOTE:
TOP OF HEAD SHALL BE SET FLUSH WITH FINISH GRADE AND SWING PIPE SHALL SLOPE TOWARDS LATERAL PIPE FOR COMPLETE DRAINAGE.



E2 POP-UP SPRAY HEAD
1" = 1"
OSD-OHB-328403-04



E3 MANUAL DRAIN VALVE
1 1/2" = 1'-0"
OSD-OHB-328406-04



E5 QUICK COUPLER VALVE
1" = 1"
OSD-OHB-328406-07

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SHEET NAME
IRRIGATION DETAILS

SHEET NUMBER
LI501

FILE NAME

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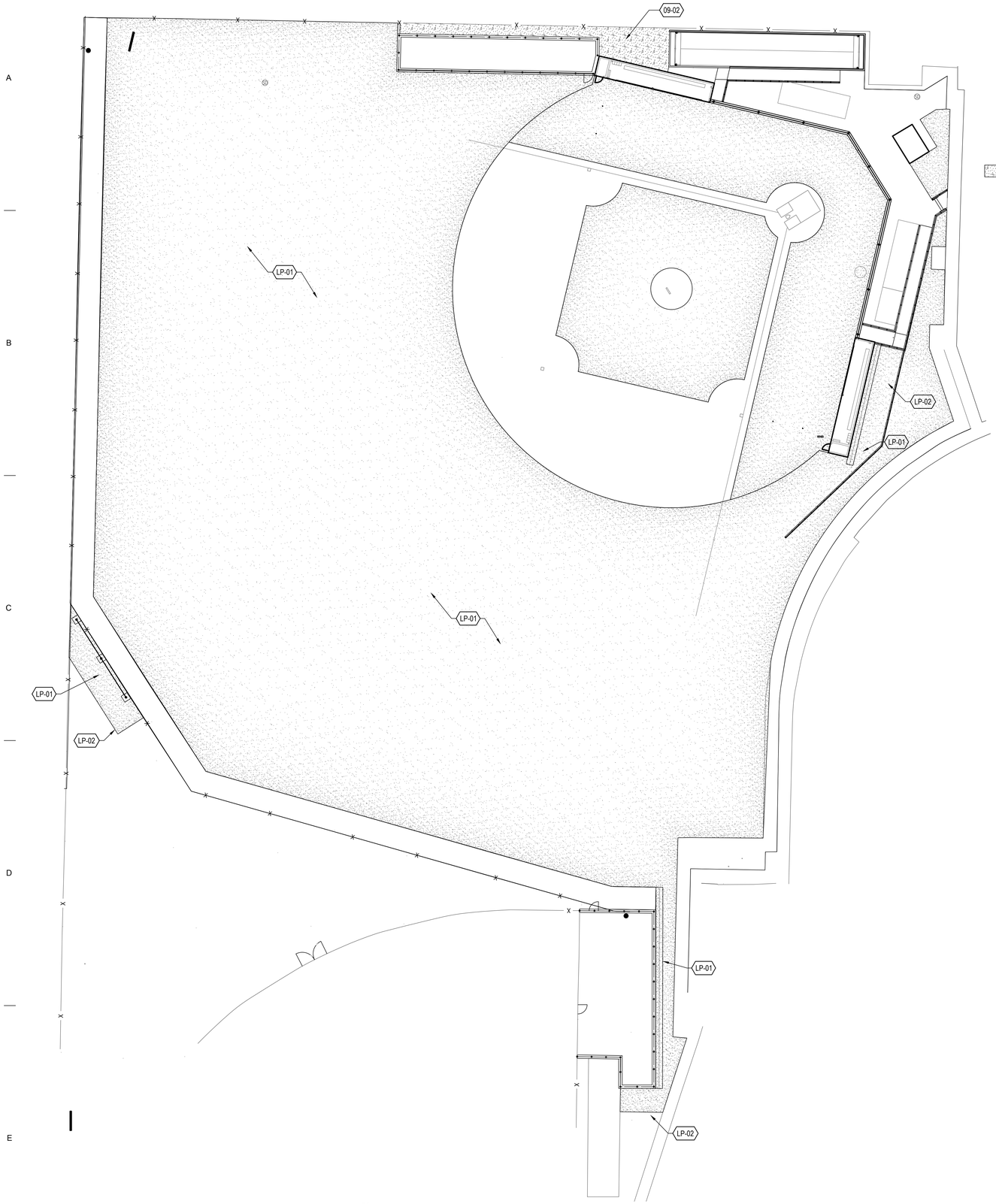

E1 LANDSCAPE PLAN

0 10' 20' 40'

SCALE: 1" = 20'-0"

N

PLANT SCHEDULE

GROUND COVERS	CODE	BOTANICAL NAME	COMMON NAME	CONT	SPACING	REMARKS
	POA PRA	LAWN	LAWN (SOD)	SOD		

REFERENCE NOTES

	09 LANDSCAPE AND IRRIGATION		
CODE	DESCRIPTION	DETAIL	SPECIFICATIONS
09-02	GRAVEL MULCH		329400
	LANDSCAPE PLANTING		
CODE	DESCRIPTION	DETAIL	
LP-01	PATCH AND REPAIR SOD AS REQUIRED DUE TO CONSTRUCTION OPERATIONS		
LP-02	APPROXIMATE EDGE OF SOD REPLACMENT		

PLANTING NOTES

1. ALL PLANTS SHALL CONFORM TO THE MINIMUM STANDARDS OF HEIGHT, SIZE, CALIPER AND ETC. OF THE AMERICAN ASSOCIATIONS OF NURSERYMEN "AMERICAN STANDARDS FOR NURSERY STOCK".
2. THIS CONTRACTOR SHALL SPREAD TOPSOIL TO A DEPTH OF 6" IN ALL LAWN PLANTING AREAS.
3. ALL MOWSTRIPS ARE TO BE INSTALLED PRIOR TO THE INSTALLATION OF THE IRRIGATION SYSTEM AND THE LANDSCAPE PLANTING.
4. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING THE REQUIRED AMOUNT OF TOPSOIL TO COMPLETE THE PROJECT. NEW TOPSOIL SHALL MATCH QUALITY AND TEXTURE OF THE EXISTING TOPSOIL ON SITE.

MHTN ARCHITECTS
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OGDEN SCHOOL DISTRICT
OGDEN HIGH SCHOOL BASEBALL FIELD RENOVATION
2828 HARRISON BLVD
OGDEN, UT 84403

SEAL

STATE OF UTAH
VINCENT RULON OLCOTT
No. 4812865
LICENSED LANDSCAPE ARCHITECT
08-18-2022

MHTN PROJECT NO. 2022539

VIEW AND PRINT THIS DRAWING IN COLOR

Original drawing is 30 x 42. Do not scale contents of this drawing.

REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

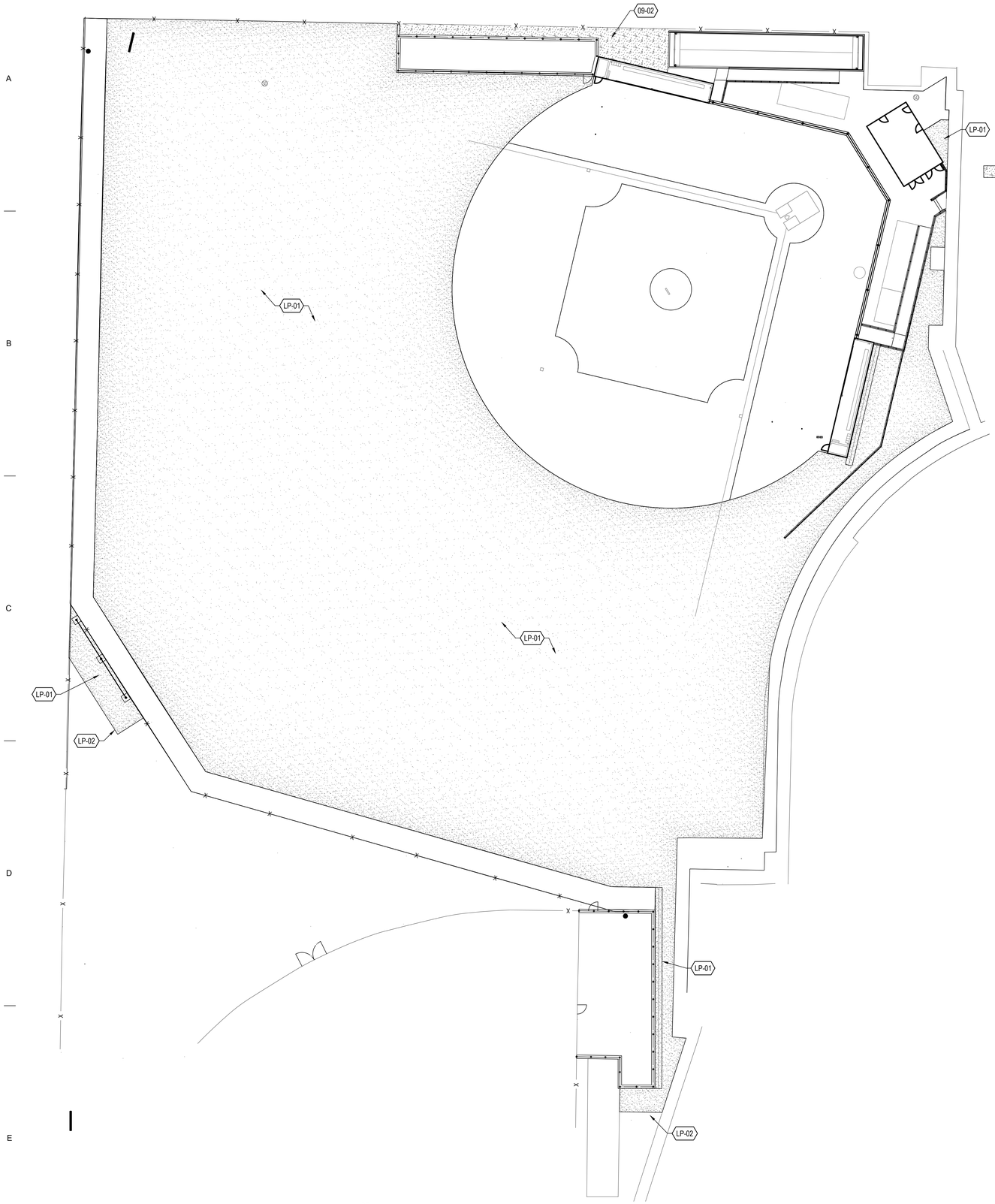
NO.	DATE	DESCRIPTION
NO.	DATE	DESCRIPTION

ISSUE
CONSTRUCTION DOCUMENTS
AUG. 18, 2022

SHEET NAME
LANDSCAPE PLAN

SHEET NUMBER
LP100

RETURN TO INDEX



E1 LANDSCAPE PLAN- ALTERNATE

0 10' 20' 40'

SCALE: 1" = 20'-0"

N

PLANT SCHEDULE

GROUND COVERS	CODE	BOTANICAL NAME	COMMON NAME	CONT	SPACING	REMARKS
	POA PRA	LAWN	LAWN (SOD)	SOD		

REFERENCE NOTES

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SHEET NAME
LANDSCAPE PLAN- ALTERNATE

SHEET NUMBER
LP100A

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1. Design Criteria

1.1. Governing Building Code .... 2018 International Building Code (IBC)
 A. Risk Category II

1.2. Floor Live Loading
 A. Office .... 50 psf Live Load + 15 psf Partition Load
 B. Exit Facilities & Corridors .... 100 psf Live Load

1.3. Roof Live Loading
 A. Roof Live Load .... 20 psf
 B. Roof Snow Load .... 35 psf + Drift per IBC
  1. Ground Snow Load, P_g .... 1.0 psf
  2. Snow Exposure Factor, C_e 1.0
  3. Importance Factor, I_s 1.0
  4. Thermal Factor, C_t 1.2
  5. Slope Factor, C_s 1.0
 C. Roof Rain Load Intensity
  1. 15-min duration/100-year return period, i_{15} .... 1.16 in. per 15 minutes
  2. 60-min duration/100-year return period, i_{60} .... 1.94 in. per hour

1.4. Earthquake
 A. Seismic Design Category .... D
 B. Spectral Response Accelerations
  S_S = 1.36g S_{DS} = 1.09 g
  S_1 = 0.50 g S_{D1} = 0.60 g
 C. Soil Site Class .... D (Default)
  F_a = 1.20 F_v = 1.80
 D. Basic Seismic-Force-Resisting System .... Special Reinforced Masonry Shear Walls (Bearing)
  R = 5.0 Ω_0 = 2.5 C_d = 3.5
 E. Importance Factor, I_e 1.0
 F. Redundancy Factor, ρ 1.3
 G. Analysis Procedure .... Equivalent Lateral Force (Static)
 H. Seismic Design Coefficient, C_s 0.217
 I. Building Seismic Movement .... 0.007 X Building Heigth

1.5. Wind
 A. Basic Design Wind Speed, V .... 103 mph
 B. Velocity pressure exponent coefficient, K_d 0.85
 C. Ground elevation factor, K_e 0.85
 D. Exposure category C
 E. Internal Pressure Coefficient, GC_{pi} 0.18
 F. Topographic Factor, K_{zt} 1.0
 G. Components and Cladding Design Pressure

Design Wind Pressure - LRFD (psf)					
Location		Tributary Area (ft²)			
		< 10	50	100	> 500
Walls	Within 3 ft of building corner	30	25	21	19
	All other areas	24	22	20	19
Roof	Within 3 ft of building exterior perimeter	70	47	37	37
	All other areas	59	41	33	22

1.6. Foundation
 A. Subsurface Conditions:
 Soils report and log of borings was obtained by the Owner for the Engineer's use in the design of the foundation, and is not a part of the Contract Documents. This report and log of borings is available for the Contractor's information, but is not a warranty of the subsurface conditions. The Contractor may use the report at their own risk.
 B. Soils Report by GSH Geotechnical, dated September 16, 2015.
 C. Soil Bearing Pressure: .... 1500 psf on suitable undisturbed natural soils. Footings shall not be placed on sod, rubbish, topsoil, non-engineered fill, disturbed soil, or other unsatisfactory materials.
 D. Lateral Soil Pressure Fluid Equivalent Density.
  1. Active: .... 35 pcf (retaining walls)
  2. At Rest: .... 55 pcf (rigid foundation walls)
  3. Passive: .... 300 pcf
  4. Increase for Seismic: .... 20 pcf
 E. Coefficient of Friction: 0.35

1.7. Classification for Fire Rated Construction
 A. For the purpose of determining fire-resistive assemblies, the following framing systems shall be considered unrestrained.
  1. Open web steel framing members supporting metal decking.
  2. Single span and simply supported end spans of multiple bays that are supported by bearing walls:
   a. Steel beams supporting concrete slabs, metal decking, or precast concrete units.
   b. Open web steel joists supporting concrete slabs or precast concrete units.
   c. Concrete slabs, precast concrete units, or metal decking.
  3. Interior spans of multiple bays supported by bearing walls:
   a. Steel beams supporting metal decking or precast concrete units.
   b. Open web steel joists supporting precast concrete units.
 B. All other steel floor and roof framing members shall be considered restrained.

2. Earthwork

2.1. Clearing: The entire building area shall be scraped to remove the top 4 inches of soil, including all vegetation and debris.

2.2. Proof rolling: The natural undisturbed soil below all footings shall be proof rolled prior to placing concrete. Remove all soft spots and replace with compacted structural fill.

2.3. Compacted structural fill: Structural fill shall be provided at all locations and extents described by the TYPICAL COMPACTED STRUCTURAL FILL DETAIL. All fill material shall be a well-graded granular material with a maximum size less than 4 inches and with not more than 10 percent passing a No. 200 sieve. It shall be compacted to 95 percent of the maximum laboratory density as determined by ASTM D1557. All fill shall be tested (See Specifications and the Quality Assurance section of the GSN).

2.4. It shall be the responsibility of the Contractor to brace and shore excavations as required.

3. Concrete

3.1. Materials shall comply with the Standards specified in American Concrete Institute (ACI) 318-14, "Building Code Requirements for Structural Concrete."
 A. Concrete mix design requirements shall be as follows:

Location	f'c at 28 days (psi)	Max W/C Ratio	Air Content (%)	Max Aggregate Size	Exposure Classes* F	S	C
Footings	3000	0.50	-	1"	F0	S0	C0
Interior Slabs on Grade	3000	0.45	-	1"	F0	S0	C0
Exterior Walls	4500	0.45	6	¾"	F1	S0	C1
Exterior Columns	4500	0.45	6	¾"	F1	S0	C1
All other site cast concrete	4500	0.45	6	1"	F1	S0	C1

 * Exposure Classes are per ACI 318, Section 19.3.1.1, where F, S and C are exposure categories for freezing and thawing, sulfate, and corrosion protection of reinforcement, respectively.
 B. Cementitious Materials:
  1. Portland Cement (ASTM C150):
   a. Type I or II for exposure class S0.
   b. Type II or V for exposure class S1.
   c. Type V for exposure class S2 and S3.
  2. Fly Ash (ASTM C618, Class C or F): maximum fly ash content as a percentage of total weight of cementitious materials shall be 25 percent.
 C. Concrete Density (Maximum Air Dry Weight):
  1. Normal weight concrete shall be approximately 145 to 155 pounds per cubic foot. Aggregate shall be ASTM C33.
 D. Steel Reinforcement:
  1. ASTM A615 Grade 60, fy = 60,000 psi min. unless noted otherwise.
 E. Admixtures:
  1. Air-entraining admixtures, comply with ASTM C 260 (when used).
   a. Tolerance on air content as delivered shall be +/- 1.5%.
   b. When air content of a trowel finished floor slab exceeds 3%, there is an increased risk for delaminations and blistering to occur. When this situation is present, the Contractor shall pay special attention to the finishing procedures to help minimize such risks. Refer to ACI 302.1R-15 "Guide for Concrete Floor and Slab Construction" for proper finishing guidelines.
  2. The use of super plasticizers and water reducers is allowed, but not required.
  3. Calcium chloride or admixtures containing calcium chloride shall not be added to the concrete mix.
 F. Chloride Ion: Maximum water soluble chloride ion concentrations in hardened concrete at age between 28 and 42 days contributed from the ingredients including water, aggregates, cementitious materials, and admixtures shall not exceed a maximum, by weight of cement, of 1.00% for concrete with exposure class C0, 0.30% for concrete with exposure class C1, 0.15% for concrete with exposure class C2, and 0.06% for all prestressed concrete.
 G. Slump Limit: 4 inches, maximum for all concrete prior to the addition of plasticizers and water reducing admixtures. The concrete supplier shall indicate the final slump of each concrete mix in the submitted mix design.
 H. Shrinkage Limit: Interior slabs on grade shall have a drying shrinkage limit of 0.040 percent tested in accordance with ASTM C157. Drying shrinkage test results shall be submitted with mix designs.
 I. Only one grade or type of concrete shall be poured on the site at any given time.

3.2. Formwork shall comply with ACI Standards Publication 347 and the project specifications. The Contractor shall be responsible for the design, detailing, care, placement and removal of the formwork and shores.

3.3. Concrete cover requirements for deformed bar reinforcing steel shall comply with ACI 318, "Building Code Requirements for Structural Concrete".
 A. Cast-in-place Concrete: Specified Cover
  1. Cast against and permanently exposed to earth: .... 3"
  2. Formed concrete exposed to earth or weather:
   #6 thru #18 bars .... 2"
   #5 and smaller bars .... 1.1/2"
  3. Concrete not exposed to weather or in contact with ground:
   Slabs, Walls, Joists; #11 bars and smaller .... 3/4"
   Beams, Columns: primary reinforcement, ties, stirrups, spirals .... 1.1/2"

3.4. Construction Joints and Control Joints:
 A. Provide a surface intentionally roughened to ¼" amplitude in all wall footings. A continuous keyway shall not be used for concrete shear wall to footing connections, unless specifically indicated. Refer to project plans, schedules and details for the shear wall to footing connection requirements.
 B. All horizontal and vertical construction joints shall have a surface intentionally roughened to ¼" amplitude. A continuous 2 X 4 keyway may be used on elements other than shear walls.
 C. Provide reinforcement dowels to match the member reinforcement across the joint, unless noted otherwise. For dowels across construction joints and wall to footing connections of concrete shear walls, refer to specific project plans, schedules, and details.
 D. Construction joints in suspended concrete pours shall be made at the center of spans.
 E. Slabs on grade shall have construction or control joints spaced not to exceed 30 times the slab thickness in any direction.
 F. Control joints shall be installed in slabs on grade so the length to width ratio of the slab is no more than 1.25:1. Control joints shall be completed within 12 hours of concrete placement. See typical details for joint configuration.
 G. Control joints in visually exposed walls, unless noted otherwise: (Joints shall line up with masonry and architectural joints, see drawings.)
  1. Vertical control joints at 10'-0" on center.
  2. Reinforcing shall be continuous through control and construction joints, unless noted otherwise.
  3. Control joints in concrete foundation walls shall line up with masonry control joints.
 H. Control joints shall be installed in concrete slabs over steel deck by saw-cutting along girders and purlins at interior grid lines. See typical details for joint size and reinforcement. Reinforcement required shall be in addition to any slab reinforcement.

3.5. Detailing: All reinforcing, including welded wire fabric, shall be detailed, bolstered & supported to comply with ACI 315, "Details and Detailing of Concrete Reinforcement" and the Concrete Reinforcing Steel Institute (CRSI) recommendations. Reinforcing bars shall not be welded unless specifically shown on drawings.
 A. All reinforcing shall be developed in compliance with the CONCRETE REINFORCING BAR DEVELOPMENT AND LAP SPLICE SCHEDULE. As indicated in the drawings or upon approval of the engineer of record, standard tension hooks or headed bars described by the TENSION HOOK DEVELOPMENT SCHEDULE or the TENSION HEADED BAR DEVELOPMENT SCHEDULE may be used in lieu of straight bars.
 B. All embedded elements and dowels shall be securely tied to formwork or to adjacent reinforcing prior to the placement of concrete.
 C. Use chairs or other support devices recommended by CRSI to support and tie reinforcement bars and welded wire fabric prior to placing concrete. Welded wire fabric shall be continuously supported at 36" o.c. maximum.
 D. See typical details for reinforcing at wall intersections and ends, reinforcing around wall openings and suspended slab openings, vertical wall dowels, concrete column ties and splices in vertical column reinforcing.
 E. See typical details for column cross-ties. The 90-degree hooks of two successive crossties engaging the same longitudinal bars shall be alternated end for end.
 F. Where required, reinforcement is to be terminated in a standard hook or headed bar anchor. Refer to the TENSION HOOK DEVELOPMENT SCHEDULE, the TENSION HEADED BAR DEVELOPMENT SCHEDULE and the REINFORCEMENT END HOOK SCHEDULE as appropriate. Unless otherwise noted, a standard hook or headed bar are equivalent and may be substituted at the Contractor's option.
 G. Contractor shall coordinate placement of all openings, curbs, dowels, sleeves, conduits, bolts, inserts and other embedded items prior to concrete placement.
 H. All reinforcement shall be bent cold, and shall be bent only once at the same location. All reinforcement shall be shop bent, unless otherwise permitted by the Engineer.

3.6. Minimum Reinforcing: Wall reinforcing shall be as follows, unless noted otherwise:

Wall Thickness	Horizontal Reinforcing	Vertical Reinforcing
6"	#4 @ 13" o.c.	#4 @ 18" o.c.
8"	#5 @ 15" o.c.	#4 @ 16" o.c.
10"	#5 @ 12" o.c.	#4 @ 13" o.c.
12"	#4 @ 13" o.c. Each Face	#4 @ 18" o.c. Each Face
Others	0.25% of Wall Area	0.15% of Wall Area

Spacing shall exceed neither three times the wall thickness nor 18". In addition to the above reinforcing, 2 - #5 x continuous horizontal bars shall be placed at the bottom of the wall (near the footing) and at each floor level, at the roof level and at the top of wall.

3.7. No aluminum conduit or product containing aluminum or any other material injurious to concrete shall be embedded in concrete.

3.8. Unless otherwise noted, all slabs on grade shall be 4" thick.

4. Masonry

4.1. Materials shall comply with the Standards specified in TMS 402-16 and TMS 602-16, "Building Code Requirements and Specification for Masonry Structures."
 A. Materials, unless noted otherwise:
  1. Concrete Masonry Units: ASTM C 90, Medium Weight.
  2. Hollow Clay Units: Hollow Brick, ASTM C652, Grade SW.
  3. Solid Clay Units: ASTM C216, Grade SW.
  4. Material Strength: The Prism Test Method or the Unit Strength Method according to TMS 602-16 Section 1.4B may be used to determine the compressive strength of masonry assemblies. The contractor shall select the desired method and meet the required material strengths as follows:
   a. Prism Test Method, TMS 602-16 Section 1.4B.3:
    1) Concrete Masonry Unit Assembly, f'm = 2000 psi.
   b. Unit Strength Method, TMS 602-16 Section 1.4B.2:
    1) Concrete Masonry Units, minimum unit strength of 2000 psi average or better. (f'm = 2000 psi)
  5. Mortar: Use Type "S" according to ASTM C270, proportion specification. Admixtures shall not be added to the mortar mix.
  6. Grout: For masonry assemblies with f'm = 2,000 psi or less conform to ASTM C476, proportion specification. Grout that does not meet the requirements of ASTM C476 proportion specification or that is used in masonry assemblies with f'm > 2,000 psi shall meet the following requirements: Meet the material requirements of ASTM C476, obtain a minimum compressive strength of f'm or 2,000 psi, whichever is larger, at 28 days tested according to ASTM C1019, and a slump of 8 in. to 11 in. as determined by ASTM C143.
   a. Self-Consolidating Grout: Conform to the material requirements of ASTM C476, obtain a minimum compressive strength of f'm or 2,000 psi, whichever is larger, at 28 days tested according to ASTM C1019, obtain a slump flow of 24 in. to 30 in. as determined by ASTM C1611, and shall have a Visual Stability Index less than or equal to 1 as determined in accordance with ASTM C1611 Appendix X.1. Field addition of admixtures is not permitted.
  7. Reinforcing: Grade 60 reinforcing steel shall comply with ASTM A615. Wire joint reinforcing shall comply with ASTM A951.
  8. Deformed Bar Anchors (DBA): All DBAs shall comply with ASTM A496.
  9. Anchor Bolts (AB): ASTM A307 with ASTM A563 heavy hex nuts and hardened washers, Grade A, unless noted otherwise.
  10. Headed Stud Anchors (HSA): Manufacture all HSAs in conformance with ASTM A108 with dimensions complying with AISC specifications.

4.2. Construction Requirements:
 A. Mortar Joints: Joints shall be "concave", "V-joint" or "weathered raked" for structural members unless noted otherwise on architectural drawings.
 B. Masonry walls, beams and columns shall be constructed with running bond, unless noted otherwise.
 C. Grouting Requirements: Comply with IBC Section 2104 and TMS 602 Section 3.5. Grout shall be mechanically consolidated and mechanically reconsolidated according to TMS 602 Section 3.5 E.
  1. Grout Pour Heights that exceed 4 feet shall meet the following requirements:
   a. Provide cleanouts in the bottom course of masonry for each grout pour in accordance with TMS 602 Section 3.2 F.
   b. For grout other than Self Consolidating Grout a demonstration panel representative of the proposed wall construction and construction procedures shall be provided and approved by the Architect. The demonstration panel may be a part of the completed construction as approved by the Architect.
   c. For Self-Consolidating Grout placed in masonry that has cured for at least 4 hours, place in lifts not exceeding the Maximum Grout Pour Height in listed in TMS 602 Section 3.5C.
  2. When grouting, form grout keys between grout pours. Form grout keys between grout lifts when the first lift is permitted to set prior to placement of the subsequent lift.
   a. Form a grout key by terminating the grout a minimum of 1.1/2 in. below a mortar joint.
   b. Do not form grout keys within beams.
   c. At beams or lintels laid with closed bottom units, terminate the grout pour at the bottom of the beam or lintel without forming a grout key.
 D. Reinforcing Bars shall not be welded unless specifically shown on drawings. In such cases, use only AWS standards. Do not substitute reinforcing bars for DBAs or HSAs.
 E. Control Joints: Spacing shall not exceed 40'-0" or 2.5 times the wall height, whichever is less. Joints shall not be located over masonry openings, and shall be a minimum of the schedule masonry column width away from masonry openings. See architectural drawings for locations.
 F. Grout all beam and joist pockets solid after installation of beams and joists.

4.3. Detailing Requirements:
 A. Standards: Reinforcing detailing shall comply with American Concrete Institute (ACI) Standard 315, "Details and Detailing of Concrete Reinforcement."
 B. Reinforcement Protection (cover):
  1. Joint reinforcement shall have not less than 5/8" mortar coverage from the exposed face.
  2. Other reinforcement shall have a minimum coverage of one bar diameter over all the bars, but not less than 3/4". When masonry is exposed to soil, minimum coverage shall be 1.5".
 C. Vertical steel reinforcement shall be placed and secured against displacement prior to grouting by wire positioners or other suitable devices: at intervals not exceeding the least dimension of the grout lift height, or bar splice locations, or 64". Vertical reinforcing shall be located at the center of the wall, unless noted otherwise.
 D. Lap Splice Lengths: Lap all masonry reinforcing bars per the "Masonry Reinforcing Bar Lap Splice Schedule." Joint reinforcement shall lap a minimum of 6".
 E. Corner Bars: Horizontal reinforcement shall be continuous at all corners and at intersecting walls. Provide corner bars with the required lap splice length.
 F. Dowels: All vertical reinforcing shall be doweled to the foundation wall, footing (structure below) and to the structure above with the same size dowel, spacing (and in the same core) as the vertical wall reinforcing unless noted otherwise.
 G. Wall Openings 24" wide and wider: Provide reinforced masonry lintels per Masonry Lintel Schedule over the top of, and 2 - #5 bars, in grouted spaces, on all sides and adjacent to every unscheduled opening, unless noted otherwise. Bars for all openings shall extend a minimum of 24" beyond the corners of the opening. Vertical bars shall extend from floor level below to the floor, or roof, level above. Where a 24" extension is not possible, extend bars as far beyond the opening as possible and terminate them with a 90 degree standard ACI hook.
 H. Horizontal wall reinforcing shall be continuous through joining concrete walls, masonry walls, columns, and pilasters. Provide a key between the wall and the column or pilaster. Horizontal wall reinforcing shall be placed inside the column vertical reinforcing.
 I. Anchor bolts and headed stud anchors shall be set in a grouted cell. Anchor bolts and headed stud anchors shall have 1" grout surrounding the shank at its penetration. Grout shall be flush with the face or top of the masonry.
 J. All masonry column ties shall terminate with 135 degree hooks plus a 6 bar diameter extension (4" minimum).
 K. The exposed face of all embed plates shall be set flush with the face of masonry wall or column.

4.4. Minimum Reinforcing:
All masonry walls shall be reinforced as follows, unless shown otherwise on the drawings. Reinforcing shall be placed in grouted cells.

Wall Thickness	Horizontal Reinforcing	Vertical Reinforcing
6"	#4 @ 48" o.c.	#5 @ 32" o.c.
8"	#5 @ 48" o.c.	#5 @ 32" o.c.
10"	#6 @ 48" o.c.	#6 @ 32" o.c.
12"	2 - #5 @ 48" o.c.	#6 @ 32" o.c.

5. Structural Steel

5.1. Material:
 A. All Other Shapes and Plates: ASTM A36 (Fy = 36 ksi), except as noted otherwise
 B. Rectangular and Square Hollow Structural Sections (HSS): ASTM A500, Grade C (Fy = 50 ksi)
 C. Steel Deck:
  1. Galvanized Steel Sheet: ASTM A653 or A1063, Grade 50 with G60 galvanized coating.
 D. High-Strength Bolts:
  1. Group A: ASTM F3125 Grades A325 & F1852
 E. Deformed Bar Anchors (DBA): ASTM A496 or ASTMA1064, 70 ksi minimum yield strength.
 F. Headed Stud Anchors (HSA): ASTM A108, with dimensions complying with AISC specifications
 G. Anchor Rods: ASTM F1554, Grade 36, unless noted otherwise, with ASTM A563 heavy hex nuts and ASTM F436 hardened washers

5.2. Fabrication and construction shall comply with the following Codes and Standards:
 A. American Institute of Steel Construction (AISC) 360-16, "Specification for Structural Steel Buildings"
 B. AISC 341-16, "Seismic Provisions for Structural Steel Buildings"
 C. AISC 303-16, "Code of Standard Practice for Steel Buildings and Bridges" excluding the following: Section 3.3 (last two sentences of first paragraph), Section 4.4, Section 4.4.1, Section 4.4.2, Section 4.5, and Section 7.13.3
  1. The architectural drawings are the prime contract drawings. Consultants' drawings by other disciplines are supplementary to the architectural drawings. The structural drawings shall be used in conjunction with the architectural drawings. Detailing and shop drawing production for structural elements will require information (including dimensions) contained in architectural, structural, and/or other consultants' drawings. Refer to the Special Instructions section of the general notes, below.
 D. AISC/RCSC 2014, "Specification for Structural Joints Using High-Strength Bolts"
 E. American Welding Society (AWS) D1.1:2015, "Structural Welding Code – Steel" (specific items do not apply when they conflict with the AISC requirements)
 F. American Welding Society (AWS) D1.8:2016, "Structural Welding Code – Seismic Supplement" (specific items do not apply when they conflict with the AISC requirements)

5.3. Structural shapes and plates shall be fabricated from newly rolled (milled) one-piece sections without splices, unless specifically noted otherwise on the structural drawings. Connections for structural steel shall comply with the structural drawings, unless written approval is given by the Structural Engineer.

5.4. Welding:
 A. It is recommended the steel erection contractor and steel fabricator contact the Quality Assurance Agency prior to beginning any welds. A program of joint preparation and welding procedures should be worked out between the two parties before the welding is started so that correct welds will be made from the beginning.
 B. Certification of Welders: All shop and field welding shall be executed by AWS certified welders who have been specifically certified for the process of welding being performed. The welder's certification will be considered as being current unless the welder is not engaged in the process of welding being performed for a period exceeding six months or there is a specific reason to question a welder's ability as required by AWS. Certification and records must comply with AWS Standards. Certification and appropriate records must be provided to the Architect prior to beginning work.
 C. Electrodes: E-70 XX or as noted otherwise. E60 XX may be used for welding steel floor and roof decks.
 D. Minimum Welds: All intersecting steel shapes that are not bolted shall be connected by a fillet weld all around, unless noted otherwise. Fillet weld sizes that are not shown shall be 1/16" less than the thinnest of the connected parts for thicknesses 1/4" and larger. Fillet welds on plates less than 1/4" shall be of the same size as the thinnest of the connected parts.
 E. Reinforcing Bars: Do not weld rebar except as specifically detailed in the drawings. In such cases, use only AWS standards. Do not substitute reinforcing bars for deformed bar anchors (DBAs), machine bolts, or headed stud anchors (HSAs).
 F. Bolts: Do not apply any welds, including "tack" welds to bolts, including anchor bolts, except as specifically detailed in the drawings.
 G. Headed Stud Anchor (HSA) welding and Deformed Bar Anchor (DBA) welding shall conform to the manufacturer's specifications. Welding shall comply with AWS D1.1 Section 7.6 through 7.9 and Annex G.

5.5. Bolted Connections:
 A. Provide snug tightened joints with Group A (threads not excluded) bolts for steel to steel connections, unless noted otherwise. Snug tightened joints shall be used in connections for simple span framing and beam (or girder) to bearing plate connections. Snug tight is the condition that exists when all of the plies in a connection have been pulled into firm contact by the bolts in the joint and all of the bolts in the joint have been tightened sufficiently to prevent the removal of the nuts without the use of a wrench. The snug tightened condition is typically achieved with a few impacts of an impact wrench, application of an electric torque wrench until the wrench begins to slow, or the full effort of a worker on an ordinary spud wrench.
 B. Provide hardened washers beneath the turned element of all bolts or nuts. Provide hardened beveled washers, to compensate for the lack of parallelism, where the outer face of the bolted parts has a slope greater than one in twenty with respect to the plane normal to the bolt axis. Hardened washers or plates installed over oversized holes or slotted holes shall be at least 5/16" thick and shall conform to ASTM F436. Plates or bars installed at slotted holes shall have a size sufficient to completely cover the slot after installation.
 C. Where a steel to steel beam connection is not detailed in the drawings, provide a standard AISC framed connection with the capacity to support one half of the total uniform load capacity of the given shape for the span and for the steel specified.
 D. Bolts, nuts and washers shall not be reused.

6. Wood

6.1. Fabrication and construction shall comply with the following Codes and Standards:
 A. American Wood Council National Design Specification for Wood Construction 2018 Edition and Supplement (NDS and NDS Supplement)
 B. American Wood Council Special Design Provisions for Wind and Seismic 2015 Edition (SDPWS)
 C. Truss Plate Institute National Design Standard for Metal-plate-connected Wood Truss Construction 2014 Edition (TPI 1)

6.2. Materials:
 A. Sawn Lumber: Members shall be identified by the grade mark and shall conform to the requirements of DOC PS 20. Sawn Lumber shall have a moisture content of less than 19% prior to be enclosed or covered.
  1. Dimension Lumber: Members shall be Number 2 Douglas Fir-Larch or better, unless noted otherwise.
  2. Heavy Timber: Timbers larger than 5"x5" shall be Douglas-Fir Larch Number 1 or better, unless noted otherwise, as graded by WWPA.
 C. Prefabricated Wood I-Joists: I-joists shall conform to ASTM D 5055. I-joists specified on the drawings are intended to be the basis of design. Prefabricated wood I-joists that are equivalent to or better than the specified products shall be submitted for approval, and shall include EI values, moment capacities, and maximum vertical shear capacities.
 D. Structural Composite Lumber: All Structural Composite Lumber Shall Comply with the requirements of ASTM D 5456. Engineered Wood Rim Board shall comply with ANSI/APA PRR 410 or ASTM D 7672. Structural Composite Lumber shall have the following properties or better, unless noted otherwise:

Composite lumber type	Bending stress, Fb, (psi)	Shear Stress, Fv, (psi)	Modulus of Elasticity, E, (ksi)	Bearing Stress, Fc⊥ (psi)
Laminated Veneer Lumber (LVL)	2600	285	1900	750
Parallel Strand Lumber (PSL)	2900	290	2000	750
Laminated Strand Lumber (LSL)	1700	400	1700	680

 E. Wood Sheathing Panels: All sheathing panels shall be rated by the American Plywood Association (APA). Panels shall bear the stamp of an approved testing and grading agency. Panels shall be grade DOC PS 1 or PS 2 with exterior glue with the following panel span rating or better, unless noted otherwise.

Area to be sheathed	Span Rating	Minimum Thickness (in)
Roofs	40/20	19/32
Floors	24 o.c. or 48/24	23/32

 F. Nails as referenced in these documents shall meet the tolerances in ASTM F1667 and have the following properties or better, unless noted otherwise:

Nail Size	Length	Minimum Penetration	Common: Shank Diameter	Common: Dowel Bending Yield Strength (psi)	Galvanized Box: Shank Diameter	Galvanized Box: Dowel Bending Yield Strength (psi)
6d	2"	1.1/8"	0.113"	100,000	0.099"	100,000
8d	2.1/2"	1.3/8"	0.131"	100,000	0.113"	100,000
10d	3"	1.1/2"	0.148"	90,000	0.128"	100,000
16d	3.1/2"	1.5/8"	0.162"	90,000	0.135"	100,000
20d	4"	2"	0.192"	80,000	0.148"	90,000

 When used to attach sheathing panels, nails shall be common or galvanized box type nails. All other nails shall be common type nails.
 G. Bolts for connections: ASTM A307 with ASTM A563 heavy hex nuts and standard washers unless noted otherwise.
 H. Lag screws for connections: SAE J429 Grade 1 or ASTM A307 Grade A with dimensions per ANSI/ASME B18.2.1. Minimum dowel bending yield strength to be 45,000 psi

6.3. Special Treatments:
 A. Preservative Treatment:
  1. The following conditions require that wood members be either naturally durable or preservative treated:
   a. Joists and structural floors less than 18 in from exposed earth.
   b. Girders less than 12 in from exposed earth.
   c. All wood in contact with concrete or masonry which is less than 8 in from exposed earth or below grade.
   d. Sleepers, sills, posts or columns on floor slabs in direct contact with earth. Wood members and siding less than 2 vertical inches from any horizontal surface exposed to the weather
   e. Any wood member exposed to the weather without covering or protection to prevent water or moisture accumulation.
  2. Preservative-treated wood shall meet the requirements in IBC Section 2303.1.9. Preservative-treated wood shall be treated to meet the requirements of AWPA Standard U1 and M4 according to species, use, and preservative. Preservatives used shall be listed in AWPA U1, Section 4. Preservative-treated wood shall be identified by the mark of an accredited inspection agency. Preservative treated wood shall have a moisture content of less than 19% prior to being enclosed or covered.
 B. Fire-Retardant-Treated Wood:
  1. Fire retardant-treated wood shall meet requirements in IBC Section 2303.2. Fire-retardant-treated wood shall be treated to meet a flame spread index of 25 or less and show no evidence of significant progressive combustion when the test is continued for 20 minutes per ASTM E 84 or UL 723.
  2. Treatment methods shall provide permanent protection to all surfaces
  3. All fire retardant treated wood products shall be labeled per the requirements of section 2303.2.4 of the IBC.
  4. Strength adjustment factors resulting from fire retardant treatment shall be determined based on the requirements of IBC sections 2303.2.5 and all subsections thereof. Strength adjustment factors for the preservative treatments used shall be submitted to the Engineer of Record for review prior to procurement of materials.
  5. Moisture content of fire retardant treated wood shall be 19% or less for lumber and 15% or less for structural panels prior to use.
 C. Fasteners, including nuts and washers, in contact with treated wood shall meet the following criteria as per IBC Section 2304.10.5:
  1. Fasteners in contact with preservative-treated wood shall be hot-dipped galvanized steel, stainless steel, silicon bronze or copper. Fasteners other than nails, wood screws, timber rivets, and lag screws may be mechanically-deposited zinc-coated steel with coatings meeting ASTM B 695, Class 55 minimum. Fasteners used in exterior applications shall be per fastener manufacturer's recommendations.
  2. Fasteners in contact with fire-retardant-treated wood shall be hot-dipped galvanized steel, stainless steel, silicon bronze or copper. Fasteners other than nails, wood screws, timber rivets, and lag screws may be mechanically-deposited zinc-coated steel with coatings meeting ASTM B 695, Class 55 minimum.

6.4. General Framing and Carpentry
 A. Minimum Nailing Requirements (See drawings for areas with greater requirements):
  1. Roof: Use two plyclips between each support for spans of 48" o.c. and one plyclip between each support for lesser spans at all unsupported sheathing panel edges. Provide 1/8" gap between panels. Typical diaphragm nailing shall be 10d common nails. Nail all diaphragm boundaries at 6" o.c. Nail all supported panel edges to a common framing member at 6" o.c. At supports away from panel edges nailing shall be at 12" o.c.
  2. Floor: Nail all sheathing panels to common framing members with 10d common nails at 6" o.c. at all supported edges and 10d at 12" o.c. at all intermediate supports.
  3. All nailing through sheathing panels shall be 3/8 in minimum from panel edges.
 B. Connect all items as per the "Minimum Nailing Schedule" contained within the contract drawings and IBC Table 2304.10.1, "Fastening Schedule", unless noted otherwise.
 C. All blocking shall be nominally 2 in thick minimum, unless noted otherwise, and fit tight against adjacent framing members.
  1. Full-depth blocking shall match the depth of adjacent framing member depths. Full-depth blocking shall be shaped to match diaphragm slope. Full-depth blocking cut from I-joist material of the same depth as the I-joists used in floor/roof construction may be used for flat floors or roofs.
  2. Sheathing panel edge blocking and solid blocking may be turned flat against sheathing or other framing, unless noted otherwise.
  3. Where required, squash blocking shall match wall stud nominal thickness, spacing, and shall align with wall studs.
 D. Provide full-depth blocking between all framing members that bear directly on walls.
 E. Full-depth blocking between joists shall be nailed to the wood plate at the top of shear walls with one Simpson "A35" framing anchor per each piece of blocking, unless noted otherwise.
 F. Coordinate size and locations of middle or end notching for roof ventilation with architectural drawings.
 G. Plies of built-up beams, headers, columns, jambs, studs, etc. shall be connected per the "Minimum Nailing Schedule" contained within the contract drawings and IBC Table 2304.10.1, "Fastening Schedule," unless noted otherwise.
 H. All required bridging and bracing for prefabricated wood I-joists shall be provided by joist manufacturer and installed by Contractor. All penetrations through the joists shall be done per manufacturers' recommendations and requirements.

6.5. Framing Connections
 A. Simpson Strong Tie Connectors are used as the basis of design. Alternate connectors are permitted with approval of the Engineer. The Contractor shall submit the proposed product data and code evaluation report demonstrating the connector is equivalent or exceeds the capacity of the specified connector.
 B. Framing connections not indicated shall be connected in a manner similar to typical details in the drawings and the Engineer shall be notified prior to the procurement of connector materials.
 C. Where framing connection type is specified without reference to a specific model no. the highest capacity model hanger of that type which is compatible with the member to be supported shall be used unless noted otherwise in the drawings.
 D. All framing connectors supporting roof members where additional uplift capacity is available shall be fastened to achieve such.
 E. Fill holes in the framing anchors per manufacturer's requirements, unless noted otherwise.

6.6. Pre-Fabricated Steel Plate Wood Trusses (Trusses):
 A. Trusses shall be designed in accordance with IBC Section 2303.4 and TPI 1.
 B. Design Loading: The truss manufacturer is responsible for design and fabrication of the trusses. They shall be designed to support the loads as shown in the drawings. In addition to loads shown, the truss designer shall coordinate and incorporate any additional loads from mechanical equipment, fire sprinkling systems, architectural elements, and hanging walls supported by the trusses. Provide extra trusses where required.
 C. Unless properly coordinated with the truss designer, truss bottom chords shall not be permitted to support mechanical or electrical equipment, plumbing, fire sprinklers, or hanging wall.
 D. Deflection of floor trusses due to live load shall be limited to L/480 and L/360 due to live load and total dead + live load respectively.
 E. Minimum specific gravity of wood truss members shall be G=0.5.
 F. Submittals:
  1. The Truss submittal package shall include design drawings and calculations for each unique truss, a truss placement diagram for each individual truss and details for permanent truss restraint/bracing.
   a. Truss Design Drawings shall meet the requirements of IBC Section 2303.4.1.1
   b. Truss design drawings must bear the seal and signature of a design professional registered to practice in the jurisdiction of the project location.
   c. Truss placement diagrams shall meet the requirements of IBC Section 2303.4.2
 G. Steel Connector Plates: Use only galvanized steel connector plates that comply with the Truss Plate Institute publication, TPI 1, latest edition. All steel connector plates must be approved by the ICC Evaluation Services. Submit a copy of the ICC Code Evaluation Report for the connector plate used. Values established by this committee must be indicated on the shop drawings.
  1. Plates shall be pressed or rolled into member to obtain full penetration without crushing the outer surfaces of wood.
  2. Steel plates at compression web members shall be designed to resist 100% of the compression force without considering wood to wood bearing.
 H. Wood Members: All wood members of the truss shall be constructed of kiln dried lumber. The trusses shall be handled and stored in a manner to prevent moisture from being absorbed by the wood. Grade stamps shall be visible on framing members.
 I. Lateral Bracing/Restraint: Permanent Lateral bracing/restraint and bridging shall be installed by the General Contractor as required by the truss designer and specified on the pre-fabricated wood roof truss design drawings
  1. Spans greater than 60 feet shall have temporary installation restraint/lateral bracing designed by a Professional Engineer.
  2. The truss installer shall follow the BCSI recommendations for handling of trusses and for both permanent and temporary bracing.
 J. Prior to the fabrication of the pre-fabricated wood trusses, the Contractor shall submit, in writing, proof of compliance of in-plant inspections in accordance with IBC Section 2303.4.6 or 2303.4.7.
 K. The truss manufacturer's identification stamp shall be clearly visible.
 L. Truss members and connections shall not be cut, notched, drilled, spliced or otherwise altered (including additional loads) in any way without prior written approval of the Engineer.

7. Miscellaneous

7.1. Post-Installed Anchors in Concrete and Masonry
 A. Anchorage to hardened concrete and grout-filled masonry shall include all mechanical and adhesive anchors and epoxy doweled reinforcing bars of size, quantity, spacing, and embedment as shown on the drawings. Additional anchors shall not be used without approval from the Engineer prior to installation.
 B. Special inspection is required during the installation of all post-installed anchors. Refer to applicable code evaluation reports and the Quality Assurance and Statement of Special Inspections sections of the General Structural Notes.
 C. Anchorage to Concrete:
  1. All post-installed anchors into hardened concrete shall be selected from the following pre-approved products, unless noted otherwise:

Steel Screw Anchor	Evaluation Report
Hilti Kwik HUS-EZ	ICC ESR-3027
DeWalt Screw-Bolt+	ICC ESR-3889
Simpson Titen HD	ICC ESR-2713

Steel Expansion/Wedge Anchor	Evaluation Report
Hilti Kwik Bolt TZ2	ICC ESR-4266
DeWalt Power-Stud+ SD2	ICC ESR-2502
Simpson Strong-Bolt 2	ICC ESR-3037

Adhesive Anchor System	Evaluation Report
Hilti HIT-HY 200	ICC ESR-3187
Hilti HIT-RE 500 V3	ICC ESR-3814
DeWalt AC200+	ICC ESR-4027
DeWalt Pure 110+	ICC ESR-3298
Simpson SET-3G	ICC ESR-4057

  2. Adhesive anchors shall be installed into concrete having a minimum age of 21 days. For installations sooner than 21 days, consult the adhesive manufacturer.
 D. Anchorage to Masonry:
  1. All post-installed anchors into grout-filled masonry shall be selected from the following pre-approved products, unless noted otherwise:

Steel Screw Anchor	Evaluation Report
Hilti Kwik HUS-EZ	ICC ESR-3056
DeWalt Screw-Bolt+	ICC ESR-4042
Simpson Titen HD	ICC ESR-1056

Steel Expansion/Wedge Anchor	Evaluation Report
Hilti Kwik Bolt TZ2	ICC ESR-4561
DeWalt Power-Stud+ SD1	ICC ESR-2966
Simpson Wedge-All	ICC ESR-1396

Adhesive Anchor System	Evaluation Report
Hilti HIT-HY 270	ICC ESR-4143
DeWalt AC100+ Gold	ICC ESR-3200

 E. Alternate anchors or adhesives are permitted with approval of the Engineer. The Contractor shall submit the proposed anchor product data and code evaluation report demonstrating the anchor is equivalent to or exceeds the capacity of the specified anchor.
 F. Installation of adhesive anchors horizontally or upwardly inclined to support sustained tension loads shall be performed by personnel certified by an applicable certification program. Certification shall include written and performance tests in accordance with the ACI/CRSI

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SEAL

PROFESSIONAL STRUCTURAL ENGINEER
No. 4859769-2203
JUSTIN D. NADAULD
STATE OF UTAH
08/18/2022

MHTN PROJECT NO. 2020520

Original drawing is 30 x 42. Do not scale contents of this drawing.

REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

NO.	DATE	DESCRIPTION

ISSUE
CONSTRUCTION DOCUMENTS
AUGUST 18, 2022

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GENERAL STRUCTURAL NOTES

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S001

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Adhesive Anchor Installer Certification program, or equivalent. Proof of current certification shall be submitted to the Engineer for approval prior to commencement of installation.

G. Anchors shall be installed according to the Manufacturer's Printed Installation Instructions and applicable code evaluation reports including:
   1. Hole diameter, depth, and cleaning procedure
   2. Adhesive mixing, preparation, and placement
   3. Installation torque

H. Locate all existing reinforcement and embedded items prior to drilling into concrete or masonry elements. Do not damage rebar or embeds while drilling or installing anchors.

I. Grout all defective or abandoned holes with non-shrink grout or an injectable epoxy adhesive matching the surrounding concrete compressive strength. Consult the Architect for additional requirements at architecturally exposed concrete.

J. Drilled anchors are not allowed in post-tensioned concrete without approval of the Architect and Engineer.

K. Carbon steel anchors are limited to use in dry, interior locations.

L. Holes for post-installed anchors may not be core drilled unless specifically allowed by the manufacturer's installation instructions and the code evaluation report.

8. Special Instructions

8.1. The project specifications are not superseded by the General Structural Notes but are intended to be complementary to them. Consult the specifications for additional requirements in each section. Notes and specific details on the drawings shall take precedence over General Structural Notes and typical details.

8.2. The architectural drawings are the prime contract drawings. Consultant drawings by other disciplines are supplementary to the architectural drawings. All omissions or conflicts, including dimensions, between the various elements of the consultants' drawings and/or specifications shall be brought to the attention of the Architect before proceeding with any work involved. In case of conflict, follow the most stringent requirement as directed by the Architect without additional cost to the Owner. Any work done by the Contractor after discovery of such discrepancy shall be done at the Contractor's risk.

8.3. The structural drawings shall be used in conjunction with the architectural drawings. Primary structural elements and overall structural layout are indicated within the structural plans and details. Some secondary elements, architectural layouts, alcoves, elevations, slopes, depressions, curbs, mechanical equipment and electrical equipment, are not indicated within the structural drawings. Detailing and shop drawing production for structural elements will require information (including dimensions) contained in the architectural, structural and/or other consultants' drawings.

8.4. Shoring and Bracing Requirements:

A. Floor and Roof Structures -- The General Contractor is responsible for the method and sequence of all structural erection. The Contractor shall provide temporary shoring and bracing as the method of erection requires to provide adequate vertical and lateral support. Shoring and bracing shall remain in place as the chosen method requires until all permanent members are in place and all final connections are completed, including all roof and floor attachments. The building shall not be considered stable until all connections are complete.

B. Foundation walls must be braced until the complete floor or roof systems is completed. Do not backfill until floor or roof systems are in place.

C. Walls above grade shall be braced until the structural system is complete. Walls shall not be considered to be self-supporting.

8.5. Submittals: A copy of all shop drawings that have been submitted for review must be kept at the construction site for reference. These drawings must bear the appropriate review stamps. The shop drawing review shall not relieve the Contractor of the responsibility of completing the project according to the contract documents. The General Contractor shall review and mark all shop drawings prior to submitting them to the Architect for review. Shop Drawings made from reproductions of (these) contract drawings will be rejected.

8.6. Project Coordination: It shall be the responsibility of the General Contractor to coordinate with all trades any and all items that are to be integrated into the structural system. Openings or penetrations through, or attachments to the structural system that are not indicated on these drawings shall be the responsibility of the General Contractor and shall be coordinated with the Architect/Engineers. The order of construction is the responsibility of the General Contractor. It is the Contractor's obligation to provide all items necessary for the chosen procedure.

8.7. Contractor shall field verify all dimensions, and conditions. If the contract drawings do not represent actual conditions, Contractor shall notify Architect/Engineer prior to fabrication or construction within that area.

9. Quality Assurance

9.1. Quality Assurance Agency Requirements:

A. The Owner shall engage a qualified Quality Assurance Agency (QAA) to provide all special inspection and quality assurance testing for the project. The QAA shall provide all information necessary for the building official to determine that the agency meets the applicable requirements.
   1. The QAA shall be objective, competent and independent from the Contractor responsible for the work being inspected. The agency shall disclose to the building official and the registered design professional in responsible charge possible conflicts of interest so that objectivity can be confirmed.
   2. The QAA shall have adequate equipment to perform required tests. The equipment shall be periodically calibrated.
   3. The QAA shall employ experienced personnel educated in conducting, supervising and evaluating tests and special inspections. Experience or training shall be considered relevant where the documented experience or training is related in complexity to the same type of special inspection or testing activities for projects of similar complexity and material qualities.
   4. The QAA shall send copies of all inspection and testing reports to the building official, Owner, Architect, Engineer and Contractor. Reports shall indicate that the work inspected was or was not completed in conformance to the approved construction documents. Discrepancies shall be brought to the immediate attention of the Contractor for correction. If they are not corrected, the discrepancies shall be brought to the attention of the, Architect and Engineer.
   5. The QAA shall submit a final report documenting required special inspections and tests, and correction of any discrepancies noted in the inspections or tests. The final report shall be distributed to the building official, Owner, Architect and Engineer in a timely manner prior to the completion of the project.

9.2. Contractor Responsibilities:

A. The Contractor shall submit a written statement of responsibility to the building official and the Owner or the owner's authorized agent prior to the commencement of work on the systems or components listed in the statement of special inspections. The Contractor's statement of responsibility shall contain acknowledgement or awareness of the special requirements contained in the statement of special inspections.

B. Notification of QAA: The Contractor shall notify the QAA in a timely manner so that inspection and testing may be performed as outlined in the statement of special inspections.

9.3. Structural Observations by the Engineer of Record.

A. The Engineer of Record will perform structural observations at critical phases of the project. Observations will be made on a periodic basis throughout the construction of the structural system. Copies of the Engineer's report will be distributed to the Architect, Contractor, Owner, and building official.

B. Observation visits to the site by the Engineer's field representatives shall not be construed as inspection or approval of construction.

10. Statement of Special Inspections

10.1. The following materials, systems and components require special inspection or testing per Chapter 17 of the International Building Code (IBC).

10.2. For items requiring continuous inspection, a special inspector must be present onsite during the performance of that task. In most cases, periodic inspections/tests shall be performed prior to commencing the task, intermittently during the task, and at the completion of the task. Frequency marked with (E) designates periodic inspections that must be performed prior to or upon completion of every task.

Structural Steel per IBC Section 1705.2.1, 1705.12.1 & 1705.13.1

Item	Frequency	Detailed Instructions
Prior to Welding (Table N5.4-1, AISC 360-16):		
Welder qualification records	Periodic	Verify welder qualification records and continuity records
Verify welding procedures (WPS) and consumable certificates	Periodic (E)	
Material identification	Periodic	Verify type and grade of material.
Welder identification	Periodic	Confirm a system is in place by which a welder who has welded a joint or member can be identified.
Fit-up of fillet welds	Periodic	Verify dimensions, cleanliness and tacking.
During Welding (Table N5.4-2, AISC 360-16):		
Use of qualified welders	Periodic	Verify that welders are appropriately qualified.
Control and handling of welding consumables	Periodic	Verify packaging and exposure control.
Cracked tack welds	Periodic	Verify that welding does not occur over cracked tack welds.
Environmental conditions	Periodic	Verify wind speed is within limits as well as precipitation and temperature.
WPS followed	Periodic	Verify items such as settings on welding equipment, travel speed, welding materials, shielding gas type/flow rate, preheat applied, interpass temperature maintained, and proper position.
Welding techniques	Periodic	Verify interpass and final cleaning, each pass is within profile limitations, and quality of each pass.
Steel headed stud anchors	Periodic	Verify placement and installation of steel headed stud anchors.
Item	Frequency	Detailed Instructions
After Welding (Table N5.4-3, AISC 360-16):		
Welds cleaned	Periodic	Verify that welds have been properly cleaned.
Size, length, and location of welds	Periodic (E)	Verify the size, length and location of welds.
Welds meet visual acceptance criteria	Periodic (E)	Verify that welds meet crack prohibition, base metal fusion, profile, size, undercut, and porosity provisions.
Arc strikes	Periodic (E)	Verify that arc strikes do not exist outside the permanent weld areas.
Repair activities	Periodic (E)	Verify that repair activities are performed in accordance with AISC 360 and AWS D1.1.
Documentation	Periodic (E)	Document the acceptance or rejection of the welded joint or member.
Prohibited welds	Periodic (E)	Verify no prohibited welds have been added without approval of the EOR.
Prior to Bolting (Table N5.6-1, AISC 360-16):		
Certifications of fasteners	Continuous	Verify that manufacturer's certificates are available for fastener materials.
Fasteners marked	Periodic	Verify that fasteners have been marked in accordance with ASTM requirements.
Proper fasteners for joint	Periodic	Verify grade, type, and bolt length if threads are excluded from the shear plane.
Proper bolting procedure	Periodic	Verify proper procedure is used for the joint detail.
Connecting elements	Periodic	Verify appropriate faying surface condition and hole preparation, if specified, meet requirements.
Pre-installation verification testing	Periodic	Observe and document verification testing by installation personnel for fastener assemblies and methods used.
Proper storage	Periodic	Verify proper storage of bolts, nuts, washers, and other fastener components.
During Bolting (Table N5.6-2, AISC 360-16):		
Fastener assemblies	Periodic	Verify that fastener assemblies are of suitable condition, paced in all holes, and washers and nuts are positioned as required.
Snug-tight prior to pretensioning	Periodic	Verify that joints are brought to snug-tight condition prior to pretensioning operation.
Fastener component	Periodic	Verify that fastener component not turned by wrench is prevented from rotating.
Pretensioned fasteners	Periodic	Verify that fasteners are Pretensioned in accordance with RCSC Specification, progressing systematically from the most rigid point toward the free edges.
After Bolting (Table N5.6-3, AISC 360-16):		
Documentation	Periodic (E)	Document the acceptance or rejection of bolted connections.
Other Steel Inspections (Section N5.8, AISC 360-16: Table J8.1, J10.1, AISC 341-16):		
Structural steel details	Periodic	All fabricated steel or steel frames shall be inspected to verify compliance with the details shown in the approved construction documents, such as braces, stiffeners, member locations, and proper application of joint details at each connection.
Anchor rods and other embedments supporting structural steel	Periodic	Shall be on the premises during the placement of anchor rods and other embedments supporting structural steel for compliance with construction documents. Verify the diameter, grade, type, and length of the anchor rod or embedded item, and the extent or depth of embedment prior to placement of concrete.
Galvanized structural steel	Periodic	Verify that exposed cut surfaces of galvanized structural steel does not include cracks prior to galvanizing the surface.

Steel Roof and Floor Decks per IBC Section 1705.2.2 and SDI QA/QC - 2017

Item	Frequency	Detailed Instructions
Steel Roof and Floor Decks Prior to Placement (IBC 1705.2.2 and Table 1.1, SDI QA/QC 2017):		
Materials	Periodic (E)	Verify compliance of deck and all deck accessories with approved construction documents, including profiles, material properties, and base metal thickness.
Item	Frequency	Detailed Instructions
Documentation	Periodic (E)	Document acceptance or rejection of deck and deck accessories
Steel Roof and Floor Decks After Placement (IBC 1705.2.2 and Table 1.2, SDI QA/QC 2017):		
Compliance with construction documents	Periodic (E)	Verify compliance of deck and all deck accessories installation with construction documents. Verify deck materials are represented by the mill certifications that comply with the construction documents.
Document acceptance or rejection of deck and deck accessories	Periodic (E)	
Steel Roof and Floor Decks Prior to Welding (IBC 1705.2.2 and Table 1.3, SDI QA/QC 2017):		
Welding procedure specifications available	Periodic	Verify that WPS is available.
Certifications of welding consumables	Periodic	Verify that manufacturer certifications for welding consumables are available.
Material identification	Periodic	Verify type and grade of materials to be welded
Welding equipment	Periodic	
Steel Roof and Floor Decks During Welding (IBC 1705.2.2 and Table 1.4, SDI QA/QC 2017):		
Use of qualified welders	Periodic	Verify that welders are appropriately qualified.
Control and handling of welding consumables	Periodic	Verify packaging and exposure control.
Environmental conditions	Periodic	Verify wind speed is within limits as well as precipitation and temperature.
WPS followed	Periodic	Verify items such as settings on welding equipment, travel speed, welding materials, shielding gas type/flow rate, preheat applied, interpass temperature maintained, and proper position.
Steel Roof and Floor Decks After Welding (IBC 1705.2.2 and Table 1.5, SDI QA/QC 2017):		
Size, length, and location of welds	Periodic	Verify size and location of welds, including support, sidelap, and perimeter welds.
Welds meet visual acceptance criteria	Periodic (E)	Verify weld meets visual acceptance criteria based upon weld/base-metal fusion, weld profiles, weld size, undercut, and porosity.
Repair activities	Periodic (E)	Verify that repair activities are acceptable.
Document acceptance or rejection of welds	Periodic (E)	
Steel Roof and Floor Decks Prior to Mechanical Fastening (IBC 1705.2.2 and Table 1.6, SDI QA/QC 2017):		
Pre-installation verification	Periodic	Verify manufacturer installation instructions are available for mechanical fasteners as well as the proper tools and storage for the fasteners.
Steel Roof and Floor Decks During Mechanical Fastening (IBC 1705.2.2 and Table 1.7, SDI QA/QC 2017):		
Fastener Placement	Periodic	Verify that fasteners are positioned as required and installed in accordance with the manufacturer's instructions.
Steel Roof and Floor Decks After Mechanical Fastening (IBC 1705.2.2 and Table 1.8, SDI QA/QC 2017):		
Spacing, type and installation of fasteners	Periodic (E)	Verify the spacing, type and installation of support, sidelap and perimeter fasteners.
Repair activities	Periodic (E)	Verify that repair activities are acceptable.
Document acceptance or rejection of mechanical fasteners	Periodic (E)	

Concrete Construction per IBC Sections 1705.3 & 1705.12

Item	Frequency	Detailed Instructions
Reinforcing steel	Periodic	Verify prior to placing concrete that reinforcing is of specified type, grade and size; that it is free of oil, dirt and rust; that it is located and spaced properly; that hooks, bends, ties, stirrups and supplemental reinforcement are placed correctly; that lap lengths, stagger and offsets are provided; and that all mechanical connections are installed per the manufacturer's instructions and/or evaluation report.
Welding of reinforcing steel	Periodic	Visually inspect all welds and also verify weldability of reinforcing steel based upon carbon equivalent and in accordance with AWS D1.4.
Cast-in bolts & embeds	Periodic	Inspection of anchors or embeds cast in concrete is required when allowable loads have been increased or where strength design is used.
Item	Frequency	Detailed Instructions
Post-installed adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads	Continuous	All post-installed anchors/dowels shall be specially inspected as required by the approved ICC-ES report. Horizontally or upwardly inclined anchors that resist sustained tension loads require continuous inspection and approved installers.
Post-installed mechanical anchors and adhesive anchors not defined above	Periodic	
Use of required mix design	Periodic	Verify that all mixes used comply with the approved construction documents; ACI 318: Ch. 19, 26.4.3-26.4.4; and IBC 1904.1, 1908.2, 1908.3.
Concrete sampling for strength tests, slump, air content, and temperature	Continuous	Samples for strength tests shall be taken in accordance with ASTM C172, cured per ASTM C31 and tested in accordance with ASTM C39 by a testing agency complying with ASTM C1077. Acceptance criteria for strength tests shall be per ACI 318 Section 26.12.3. For each mix placed, samples shall be taken not less than once a day, nor less than once for each 150 yd^3 of concrete, nor less than once for each 5000 ft^2 of surface area for slabs or walls. At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests and determine the temperature of the concrete.
Concrete placement	Continuous	
Curing temperature and techniques	Periodic	Verify that the ambient temperature for concrete is kept at > 50°F for at least 7 days after placement. High-early-strength concrete shall be kept at > 50°F for at least 3 days. Accelerated curing methods may be used (see ACI 318: 26.4.7-26.4.9). The ambient temperature for shotcrete shall be > 40°F for the same period of time as noted for concrete. Shotcrete shall be kept continuously moist for at least 24 hours after shotcreting. All concrete materials, reinforcement, forms, fillers, and ground shall be free from frost. In hot weather conditions ensure that appropriate measures are taken to avoid plastic shrinkage cracking and that the specified water/cement ratio is not exceeded.
In-situ strength verification	Periodic	Verify that adequate strength has been achieved prior to the removal of shores and forms or the stressing of post-tensioned tendons.
Formwork	Periodic	Verify that the forms are placed plumb and conform to the shapes, lines, and dimensions of the members as required by the approved construction documents.
Welding of Reinforcing Steel (IBC Table 1705.3):		
Verification of weldability	Periodic	Verify weldability of reinforcing steel other than A706 based upon carbon equivalent and in accordance with AWS D1.4. Continuous inspection is required for welding of reinforcing steel used in intermediate or special concrete moment frames, boundary elements of special structural walls or shear reinforcement.
Other reinforcing steel	Periodic	Visually inspect all welds in accordance with AWS D1.4.
Single-pass fillet welds, 5/16" max	Periodic	
All other welds	Continuous	

Masonry Construction per IBC Section 1705.4

Item	Frequency	Detailed Instructions
Prior to Construction (Table 3, TMS-602-16):		
Review material certificates, mix designs, test results and construction procedures	Periodic	Verify that materials conform to the approved construction documents. Mix design, test results, material certificates, and construction procedures should be submitted to inspector for review. Mortar mix designs shall conform to ASTM C 270 while grout shall conform to ASTM C 476. Material certificates shall be provided for reinforcement; anchors, ties, fasteners, and metal accessories; masonry units; mortar and grout materials. Construction procedures for cold-weather or hot-weather construction shall be reviewed.
Verify f'_m prior to construction	Periodic	Determine the compressive strength for each wythe by the "unit strength method" or by the "prism test method" as specified in Section 1.4B of ACI 530.1-13 prior to construction.
As Masonry Construction Begins (Table 4, TMS-602-16):		
Proportions of site-prepared mortar	Periodic	Verify that mortar is of the type and color specified on the construction documents, that it conforms to ASTM C 270, and that it is mixed in accordance with Article 2.6 A of TMS-602-16.
Grade and size of prestressing tendons and anchorages	Periodic	Verify that prestressing tendons comply with Article 2.4 B of TMS-602-16 and that anchorages, couplers, and end blocks comply with Article 2.4 H.
Reinforcement, connectors, and anchorages	Periodic	Verify that reinforcement, connectors, and anchorages are of the proper grade, type and size in accordance with Article 3.4 of TMS-602-16. Prestressing tendons shall be placed per Article 3.6 A.
Prestressing technique	Periodic	Verify that prestressing technique complies with Article 3.6 B of TMS-602-16.
Sample panel	Periodic	Verify that sample panels are properly constructed and that subsequent work conforms per Article 1.6 D of TMS-602-16. (If Risk Category IV this should be performed on a continuous basis.)
Construction of mortar joints	Periodic	Verify that mortar joints comply with Article 3.3 B of TMS-602/ACI 530.1-13.
Preparation of required grout specimens, mortar specimens and/or prisms shall be observed	Periodic	If the prism test method is used a minimum of three prisms shall be constructed in accordance with ASTM C1314. If the unit strength method is selected the compressive strength of the grout shall be determined per ASTM C1019 (not required if grout complies with ASTM C476).
Prior to Grouting (Table 4, TMS-602-16):		
Grout space	Periodic	Verify that grout space is free of mortar droppings, debris, loose aggregate, and other deleterious materials and that cleanouts are provided per Article 3.2 D and 3.2 F of TMS-602-16.
Grade, type, and size of reinforcement and anchor bolts	Periodic	Verify that reinforcement, joint reinforcement, wall ties, anchor bolts and veneer anchors comply with the approved construction documents and Section 1.6 of TMS 402/ACI 530-13.
Placement of reinforcement and connectors and anchor bolts	Periodic	Verify that reinforcement, joint reinforcement, wall ties, anchor bolts and veneer anchors are installed in accordance with the approved construction documents and Articles 3.2 E and 3.4 of TMS-602-16.
Placement of masonry units and construction of mortar joints	Periodic	Verify that face shells and head joints are fully mortared and that vertical cells are aligned and unobstructed openings for grout are provided. All units are to be clean and placed while mortar is soft and plastic. Verify that mortar joints are placed in accordance with Article 3.3 B of TMS 602/ACI 530.1-13.
During Masonry Construction (Table 4, TMS-602-16):		
Materials and procedures	Periodic	Ensure that materials and procedures conform to the approved construction documents and Article 1.5 of TMS-602-16.
Placement of masonry units and mortar joint construction	Periodic	Verify that masonry units are properly placed and that mortar joint construction conforms to Article 3.3 B of TMS-602-16.
Size and location of structural elements	Periodic	Verify the locations of structural elements with respect to the approved plans and confirm that tolerances meet the requirements of Article 3.3 F of TMS-602-16.
Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction.	Periodic	Verify that correct anchorages and connections are provided per the approved plans and Sections 1.2.1, 6.2.1 and 6.3.1 of TMS-402-16.
Welding of reinforcement	Continuous	
Preparation, construction, and protection of masonry during cold weather (<40°F) or hot weather (>90°F).	Periodic	Verify that cold-weather construction is performed in accordance with Article 1.8 C of TMS-602-16 and hot weather construction per Article 1.8 D of TMS-602-16.
Observation of grout specimens, mortar specimens, and/or prisms	Periodic	Confirm that specimens/prisms are performed as required by Article 1.4 B of TMS-602-16.
Self-consolidating grout	Continuous	
Minimum Testing:		
Verification of Slump Flow and Visual Stability Index (VSI) for self-consolidating grout	Periodic	Compressive strength tests should be performed in accordance with ASTM C 1019 for slump flow and ASTM C 1611 for VSI.
Verification of f'_m	Periodic	Determine the compressive strength for each wythe by the "unit strength method" or by the "prism test method" as specified in Article 1.4 B of TMS 602-16 prior to construction. (For Risk Category IV buildings this should be verified at every 5,000ft^2 of construction.)
Verification of proportions of materials in premixed or pre-blended mortar and grout	Periodic	Verify that proportions for mortar meet ASTM C 270 and proportions for grout meet ASTM C 476.
Post-installed anchors or dowels		All post-installed anchors/dowels shall be specially inspected as required by the approved ICC-ES report.

Wood Construction per IBC Sections 1705.5, 1705.10.1 & 1705.11.2

Item	Frequency	Detailed Instructions
Structural wood	Periodic	If fastener spacing is < 4"o.c.: Verify proper nailing, bolting, anchoring and other fastening of shear walls, diaphragms, drag struts, braces, and holdowns. ***Performed by code inspection firm.***

Soils per IBC Section 1705.6

Item	Frequency	Detailed Instructions
Verify subgrade is adequate to achieve design bearing capacity	Periodic	Prior to placement of concrete.
Verify excavations extend to proper depth and material	Periodic	Prior to placement of compacted fill or concrete.
Verify that subgrade has been appropriately prepared prior to placing compacted fill	Periodic	Prior to placement of compacted fill.
Perform classification and testing of compacted fill materials	Periodic	All materials shall be checked at each lift for proper classifications and gradations not less than once for each 10,000ft^2 of surface area.
Verify proper materials, densities and lift thicknesses during placement and compaction.	Continuous	

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ISSUE
CONSTRUCTION DOCUMENTS
AUGUST 18, 2022

SHEET NAME
GENERAL STRUCTURAL NOTES

SHEET NUMBER
S002

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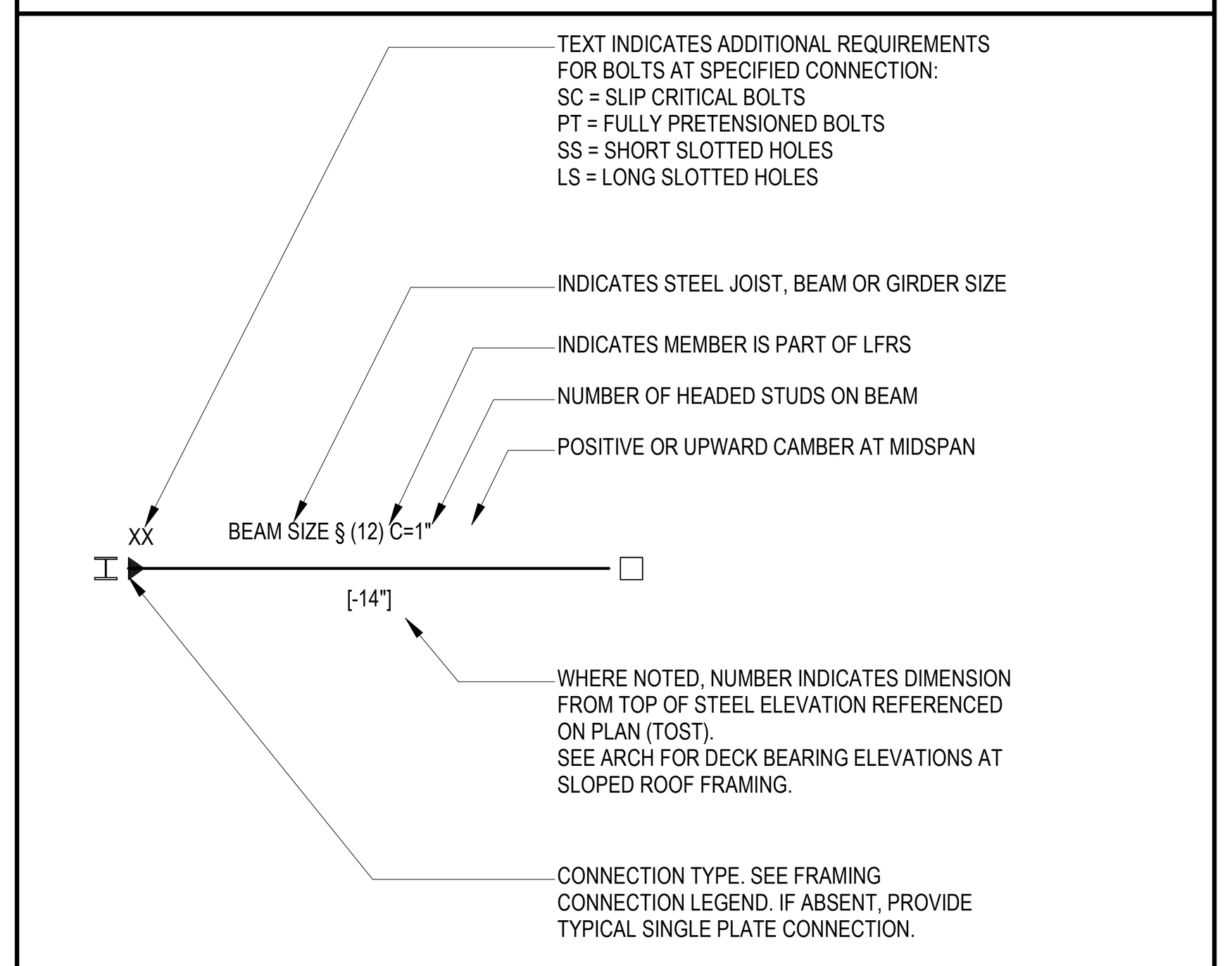
PLAN LEGEND

FOOTING STEP	CONCRETE WALL
FOOTING - CONTINUOUS	CONCRETE WALL - RECESSED (FDTN PLAN) CONCRETE LINTEL (FRAMING PLAN)
FOOTING - THICKENED SLAB	CONCRETE WALL - RECESSED AT DOOR
FOOTING - SQUARE FOOTING - RECTANGULAR FOOTING - MAT FOOTING	CONCRETE PIER IN CONCRETE WALL. TOP OF PIER RECESSED BELOW SLAB.
CHANGE IN ELEVATION	CONCRETE COLUMN
SLAB BLOCK-OUT AT COLUMN	CONCRETE JAMB COLUMN POURED MONOLITHIC WITH CONCRETE WALL
SLAB CONTROL/CONSTRUCTION JOINT	MASONRY WALL
SPECIAL SLAB OR DECK AREA	MASONRY WALL - RECESSED (FDTN PLAN) MASONRY LINTEL (FRAMING PLAN)
SPECIAL SLAB OR DECK AREA	MASONRY COLUMN IN MASONRY WALL
SPECIAL SLAB OR DECK AREA	STEEL STUD WALL - STRUCTURAL
RECESSED/DEPRESSED SLAB	STEEL HEADER IN STEEL STUD WALL
OPENING	BRICK WALL
CONCRETE HOUSEKEEPING PAD	BRICK WALL - RECESSED (FDTN PLAN) BRICK LINTEL (FRAMING PLAN)
CONCRETE OVER STEEL DECK	BRICK COLUMN IN BRICK WALL
STEEL DECK	WOOD STUD WALL
STEEL GRATE	WOOD HEADER IN WOOD STUD WALL
WOOD DIAPHRAGM SHEATHING	NON-BEARING WOOD WALL. SEE ARCH
	STEEL/WOOD BEAM OR GIRDER
	STEEL/WOOD JOIST OR PURLIN
	STEEL BRACED FRAME - ABOVE
	STEEL BRACED FRAME
	STEEL BEAM OR GIRDER
	STEEL JOIST OR PURLIN
	CROSS BRIDGING
	HORIZONTAL BRIDGING
	STEEL COLUMN - TUBE (HSS)
	STEEL COLUMN - WIDE FLANGE
	STEEL COLUMN - PIPE (HSS)
	WOOD COLUMN

STEEL FRAMING MEMBER DESIGNATION



ABBREVIATIONS

@	AT
AB	ANCHOR BOLT (S)
ABV	ABOVE
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECT(URAL)
BLDG	BUILDING
BLW	BELOW
BM	BEAM
BOT	BOTTOM
BRG	BEARING
BTWN	BETWEEN
CJ	CONSTRUCTION JOINT OR CONTROL JOINT
CJP	COMPLETE JOINT PENETRATION
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CTR	CENTER
D.B.	DECK BEARING
db	DIAMETER OF REINFORCING BAR
DBA	DEFORMED BAR ANCHORS
DBL	DOUBLE
DET	DETAIL
DIA (OR Ø)	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DK	DECK
DN	DOWN
DWG	DRAWING
DWL	DOWEL
E.F.	EACH FACE
E.J.	EXPANSION JOINT (SEISMIC SEPARATION JOINT)
E.W.	EACH WAY
EA	EACH
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
ENG	ENGINEER
EQ	EQUAL
EQUIP	EQUIPMENT
EXIST (E)	EXISTING
EXP	EXPANSION / EXPOSED
EXT	EXTERIOR
F.D.	FLOOR DRAIN
F.F.	FINISH FLOOR
F.V.	FIELD VERIFY
FDTN	FOUNDATION
FIN	FINISH
FL	FLOOR
FT	FOOT
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GLB	GLU-LAMINATED BEAM
GR	GRADE
GSN	GENERAL STRUCTURAL NOTES
HB	HORIZONTAL BRIDGING
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHORS
HSS	HOLLOW STRUCTURAL STEEL
HT	HEIGHT
I.F.	INSIDE FACE
IBC	INTERNATIONAL BUILDING CODE
ICC	INTERNATIONAL CODE COUNCIL
IN	INCH
INSUL	INSULATION
INT	INTERIOR
JST	JOIST
JT	JOINT
K	KIPS - 1,000 POUNDS
KLF	KIPS PER LINEAL FOOT
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
LBS	POUNDS
Ld, Lt, Lsb, Lsbt, Ldc, Lsc	SEE CONCRETE REINFORCING BAR DEVELOPMENT AND LAP LENGTH SCHEDULE
LF	LINEAL FOOT
LFRS	LATERAL FORCE RESISTING SYSTEM (SFRS & WFRS)
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LSH	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
MAS	MASONRY
MAX	MAXIMUM
MCJ	MASONRY CONTROL JOINT
MECH	MECHANICAL
MFGR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
NIC	NOT IN CONTRACT
NORM	NORMAL
NTS	NOT TO SCALE
O.C.	ON CENTER
O.F.	OUTSIDE FACE
OPNG	OPENING
OPP	OPPOSITE
OWSJ	OPEN WEB STEEL JOIST
P.T.	POST-TENSIONED
PAF	POWDER ACTUATED FASTENER
PCF	POUNDS/CUBIC FOOT
PJP	PARTIAL JOINT PENETRATION
PL	PLATE
PLF	POUNDS/LINEAL FOOT
PNL	PANEL
PSF	POUNDS/SQ FOOT
PSI	POUNDS/SQ INCH
R.D.	ROOF DRAIN

ABBREVIATIONS

REINF	REINFORCING
REQD	REQUIRED
SDS	SELF-DRILLING SCREW
SFRS	SEISMIC FORCE RESISTING SYSTEM
SHT	SHEET
SI	SPECIAL INSPECTION (SP. INSP.)
SIM	SIMILAR
SOG	SLAB ON GRADE
SQ	SQUARE
STAG	STAGGERED
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STRUCT	STRUCTURAL
T & B	TOP AND BOTTOM
T.O.	TOP OF
TEMP	TEMPERATURE
THDS	THREADS
TOC	TOP OF CONCRETE
TOCP	TOP OF CONCRETE PIER
TOF	TOP OF FOOTING
TOS	TOP OF SLAB
TOST	TOP OF STEEL
TOW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W.P.	WORK POINT
W/	WITH
WF	WIDE FLANGE
WFRS	WIND FORCE RESISTING SYSTEM
WT	WEIGHT
WWF	WELDED WIRE FABRIC
YD	YARD

PLAN MARKS

BF-#	BRACED FRAME
CB-#	CONCRETE BEAM
CC-#	CONCRETE COLUMN
CCSS-#	CANTILEVERED CONCRETE SUSPENDED SLAB
CDP-#	CONCRETE DRILLED PIER
CFW-#	CONCRETE FOUNDATION WALL
CGB-#	CONCRETE GRADE BEAM
CJ-#	CONCRETE JOIST
CJC-#	CONCRETE JAMB COLUMN
CL-#	CONCRETE LINTEL
CP-#	CONCRETE PIER
CRW-#	CONCRETE RETAINING WALL
CSG-#	CONCRETE SLAB ON GRADE
CSH-#	CONCRETE SHEAR HEAD
CSS-#	CONCRETE SUSPENDED SLAB
CSW-#	CONCRETE SHEAR WALL
CW-#	CONCRETE WALL
FC#	CONTINUOUS FOOTING
FM#	MAT FOOTING
FR#	RECTANGULAR FOOTING
FS#	SQUARE FOOTING
FTS#	THICKENED SLAB FOOTING
HD-#	HOLD DOWN ANCHOR
MC-#	MASONRY COLUMN
MF-#	MOMENT FRAME
ML-#	MASONRY LINTEL
MP-#	MASONRY PIER
MW-#	MASONRY WALL
PTB-#	POST-TENSIONED CONCRETE BEAM
SBP-#	STEEL BASE PLATE
SC-#	STEEL COLUMN
SCP-#	STEEL CAP PLATE
SD-#	STEEL DECK
SDA-#	STEEL DECK ATTACHMENT
SG-#	STEEL GIRDER
SJ-#	STEEL JOIST
SND-#	SNOW DRIFT
WB-#	WOOD BEAM
WBW-#	WOOD BEARING WALL
WC-#	WOOD COLUMN
WD-#	WOOD DIAPHRAGM
WJ-#	WOOD JOIST
WSW-#	WOOD SHEAR WALL

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LEGENDS & ABBREVIATIONS

SHEET NUMBER
S003

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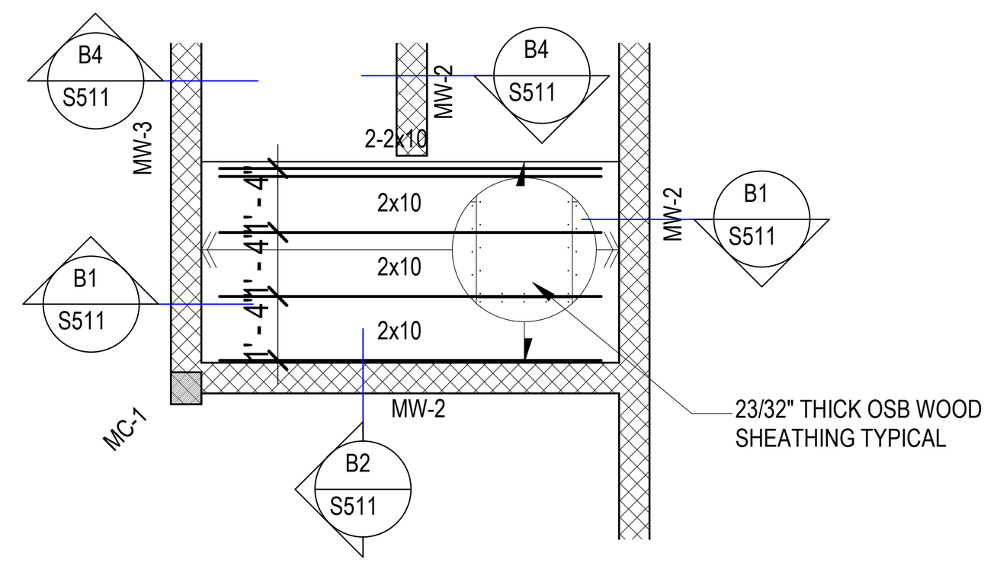
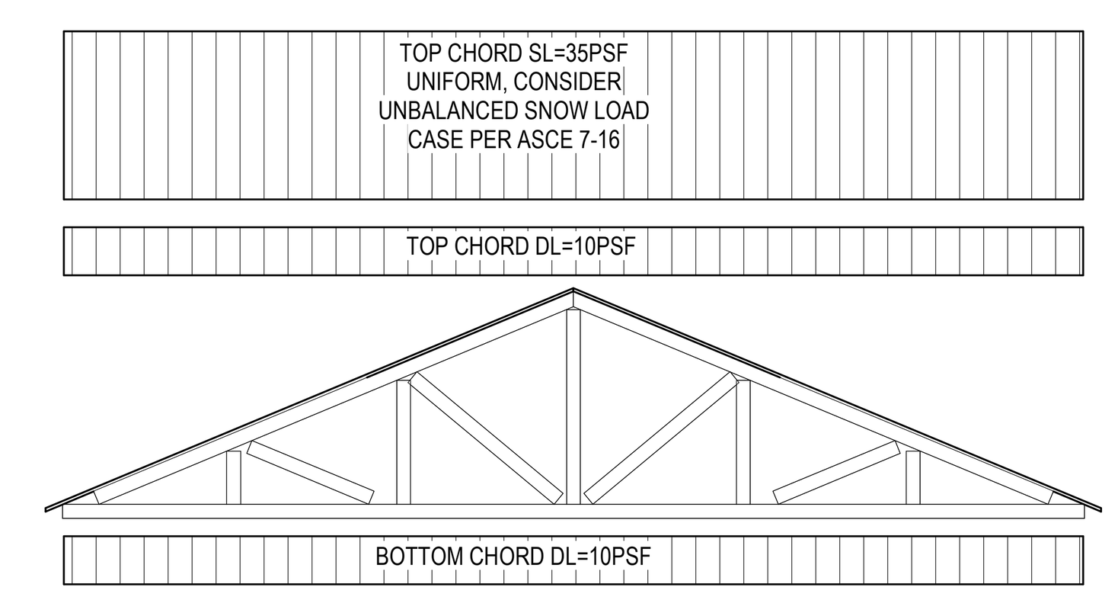


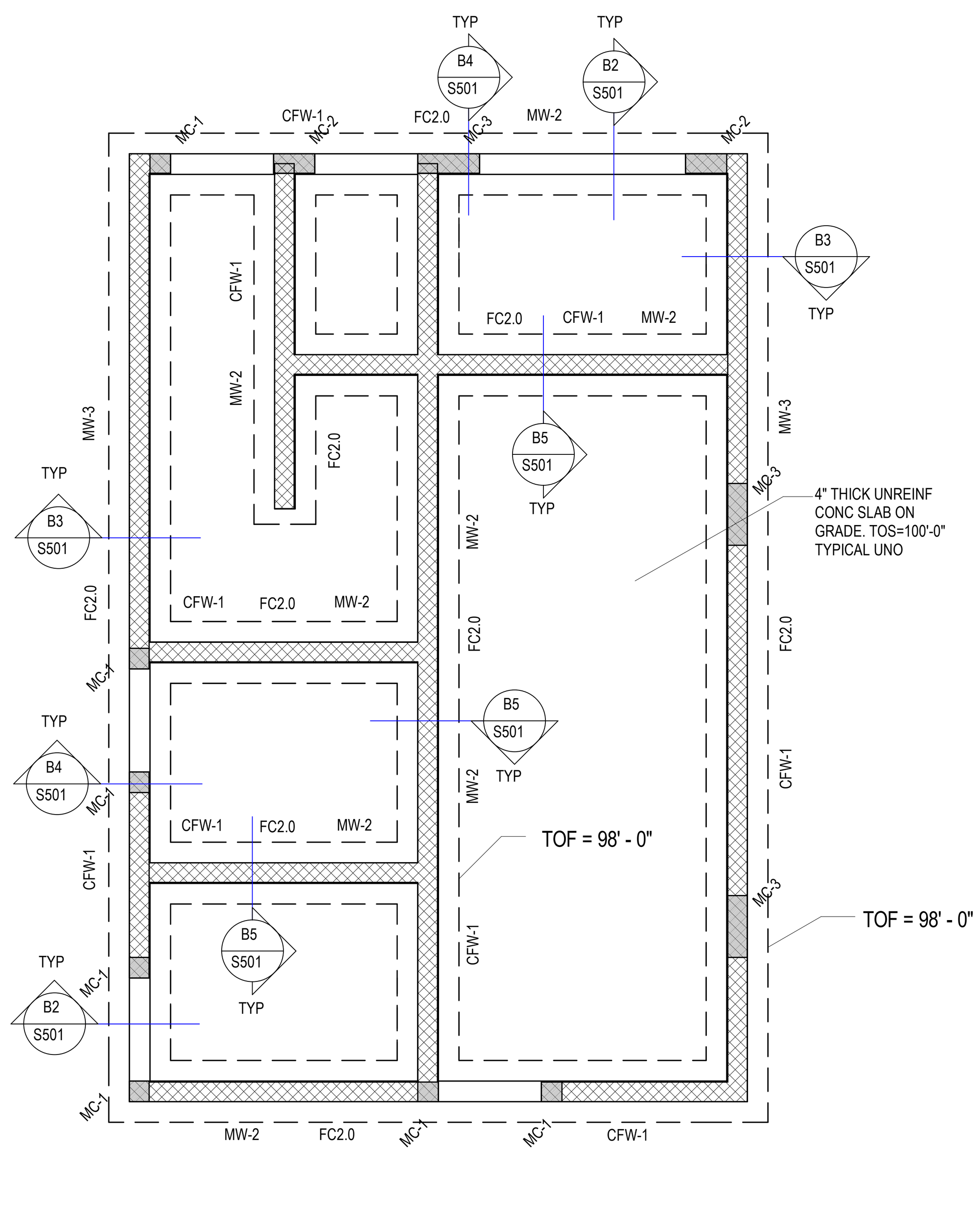
D2 S101 STAIR LANDING FLOOR FRAMING

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



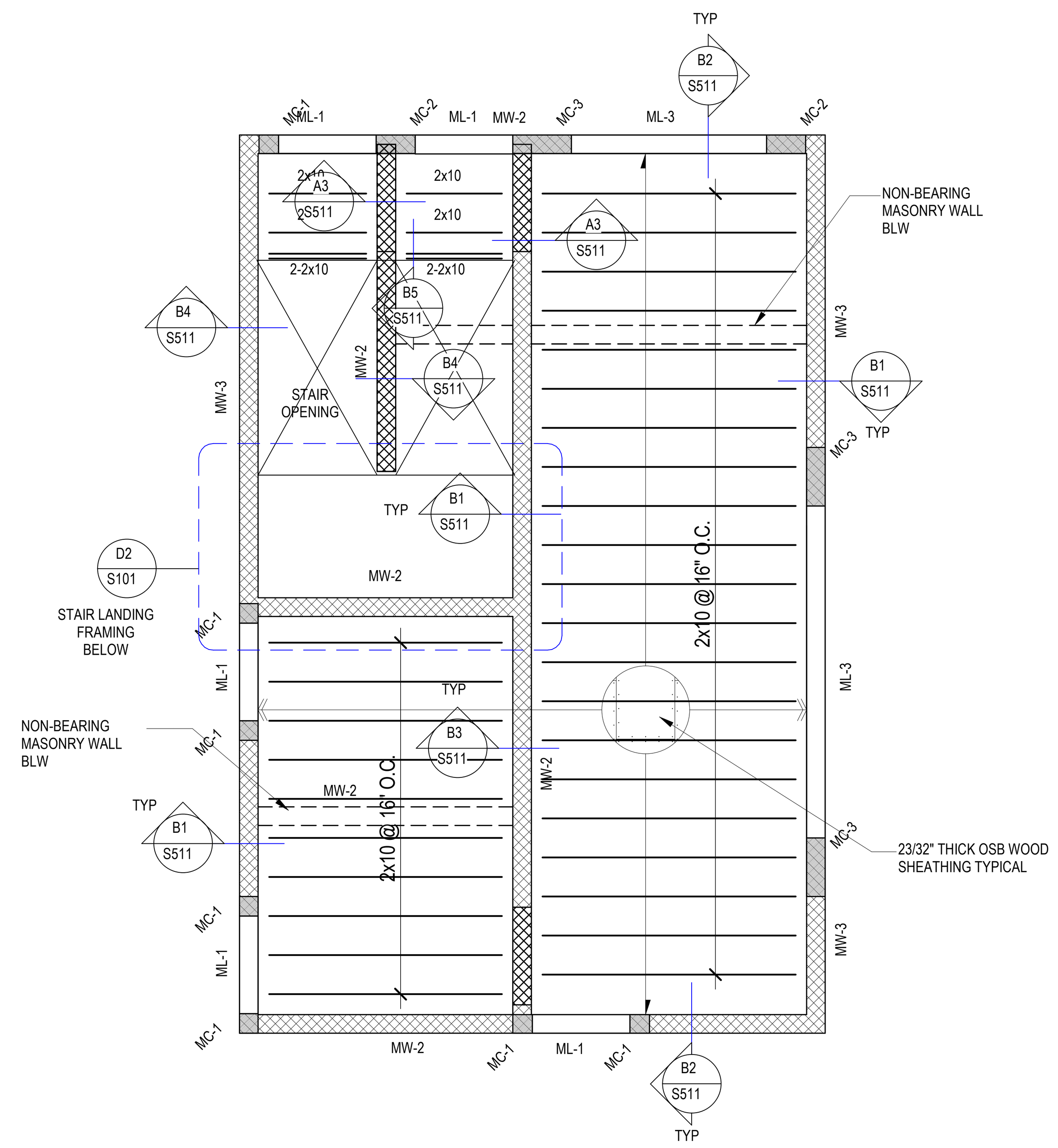
D4 S101 TYPICAL PRE-ENGINEERED WOOD TRUSS ELEVATION

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



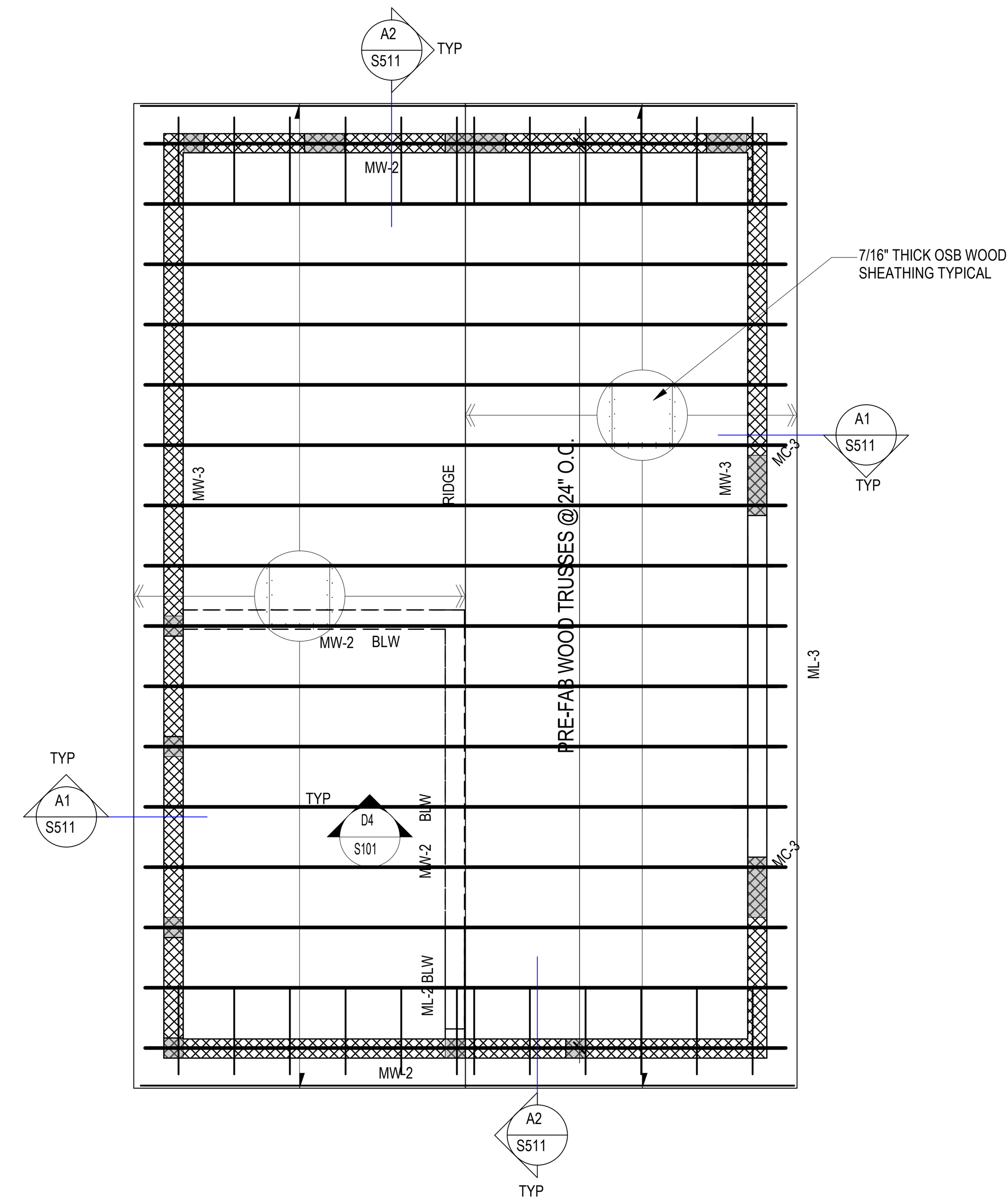
B1 S101 FOOTING AND FOUNDATION PLAN ANNOUCERS BOOTH (BID ALTERNATE #1)

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



B2 S101 FLOOR FRAMING PLAN ANNOUCERS BOOTH (BID ALTERNATE #1)

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



B3 S101 ROOF FRAMING PLAN ANNOUCERS BOOTH (BID ALTERNATE #1)

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

FOOTING & FOUNDATION PLAN NOTES

1. SEE ARCHITECTURAL, CIVIL AND LANDSCAPE DRAWINGS FOR EXTERIOR CONCRETE RETAINING AND / OR SITE WALLS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

2. SEE TYPICAL STEP DETAIL AT CONTINUOUS FOOTING C4 / S501.

3. PROVIDE REINFORCEMENT AT WALL ENDS PER TYPICAL DETAIL D1 / S501.

4. DOWEL ALL CONCRETE WALLS TO FOOTING PER TYPICAL DETAIL D2 / S601

5. PROVIDE COMPACTED STRUCTURAL FILL UNDER ALL CONCRETE FOOTINGS PER TYPICAL DETAIL D2 / S501.

6. SEE A1 / S601 FOR CONCRETE RETAINING WALL SCHEDULE AND DETAIL.

SLAB ON GRADE PLAN NOTES

1. ALL SLABS ON GRADE SHALL BE 4 INCHES THICK, UNLESS NOTED OTHERWISE. SEE TYPICAL CONCRETE SLAB ON GRADE PROFILE DETAIL C3 / S501 FOR SUBGRADE REQUIREMENTS.

2. SEE ARCHITECTURAL, CIVIL AND LANDSCAPE DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC.

3. SEE ARCHITECTURAL DRAWINGS AND FINISH SCHEDULE FOR SLAB DEPRESSIONS, SLOPES TO DRAINS AND SLAB AREAS TO RECEIVE FLOOR TILE.

4. SEE TYPICAL CONCRETE SLAB ON GRADE DETAILS FOR CONSTRUCTION JOINTS, CONTROL JOINTS AND ADDITIONAL SLAB REINFORCING C1 / S501.

5. SUBMIT SLAB ON GRADE CONTROL JOINT PLAN FOR REVIEW.

MASONRY WALL NOTES

1. TERMINATE HORIZONTAL REINFORCEMENT AT CONTROL JOINTS IN MASONRY WALLS PER DETAIL A1 / S611.

2. PROVIDE ADDITIONAL HORIZONTAL AND VERTICAL REINFORCING AT WALL CORNERS, EDGES OF OPENINGS, WALL ENDS, AND WALL INTERSECTIONS PER D1 / S611

3. SEE A2 / S611 FOR TYPICAL REINFORCING AROUND MISCELLANEOUS OR RECESSED MASONRY WALL OPENINGS.

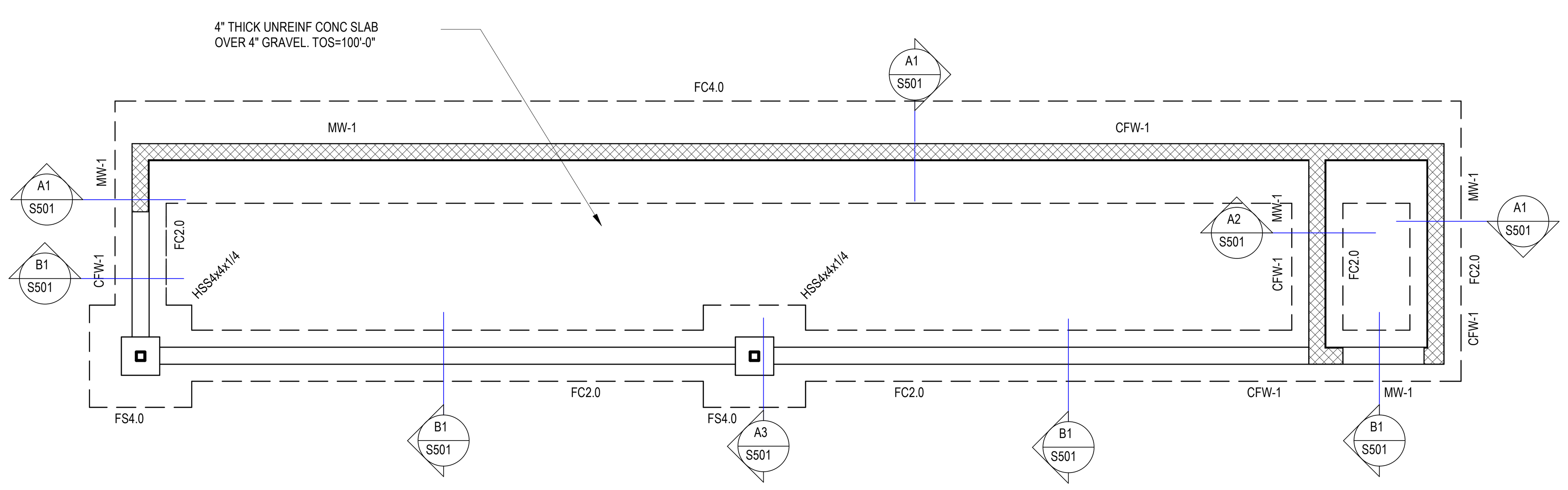
4. SEE B1 / S611 FOR REQUIRED ADDITIONAL DUCTILITY REINFORCING IN LOAD BEARING MASONRY WALLS.

5. SEE ARCHITECTURAL FOR TOP OF NON-BEARING WALL LOCATIONS.

WOOD FLOOR/ROOF FRAMING PLAN NOTES

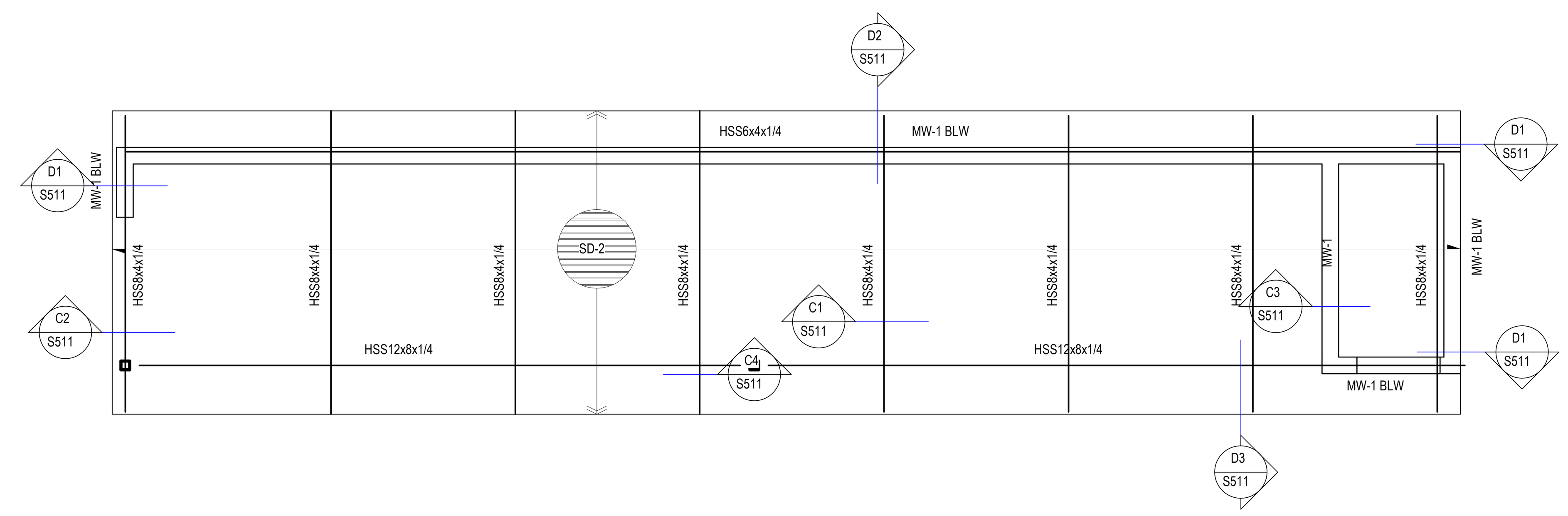
1. SEE DETAIL C5 / S511 WOOD DIAPHRAGM LAYOUT AND NAILING.

2. SEE SHEET S621 FOR WOOD NAILING SCHEDULE



A1 S101 FOOTING AND FOUNDATION PLAN DUGOUT

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



A4 S101 ROOF FRAMING PLAN DUGOUT

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

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OGDEN SCHOOL DISTRICT

OGDEN HIGH SCHOOL SOFTBALL FIELD

2828 HARRISON BLVD,
OGDEN, UT 84403

SEAL

PROFESSIONAL STRUCTURAL ENGINEER
No. 4859789-2203
JUSTIN D. NADAULD
STATE OF UTAH
08/18/2022

MHTN PROJECT NO. 2020520

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AUGUST 18, 2022

SHEET NAME
STRUCTURAL PLANS

SHEET NUMBER
S101

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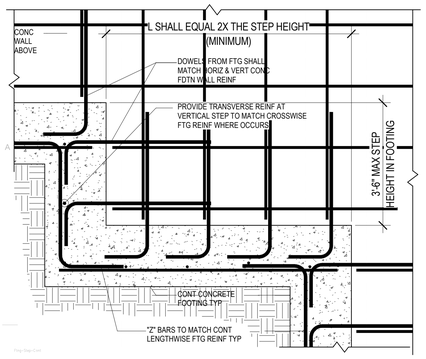
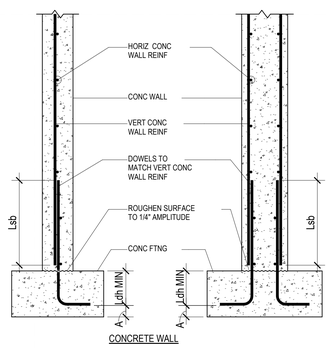
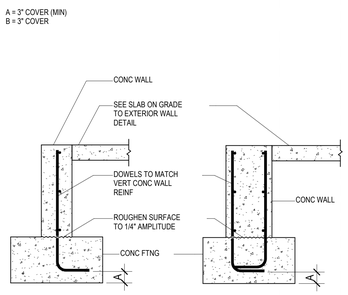


D1 S501 TYPICAL STEP DETAIL AT CONTINUOUS FOOTING

NO SCALE





D2 S501 TYPICAL CONCRETE WALL CONNECTION TO CONCRETE FOOTING

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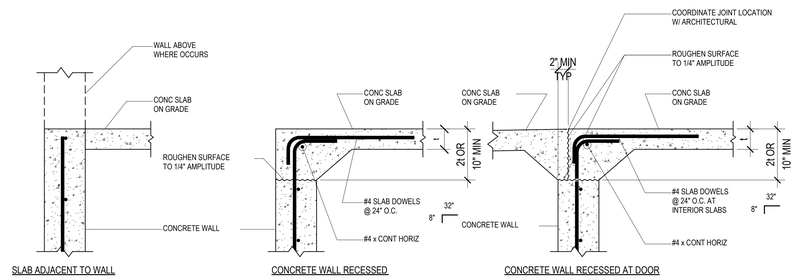

D4 S501 TYPICAL CONCRETE SLAB ON GRADE TO CONCRETE WALL

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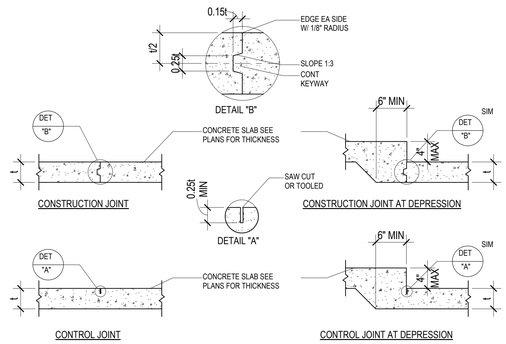
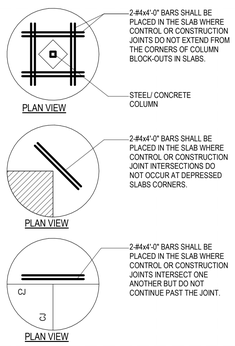
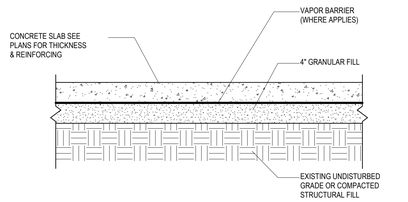




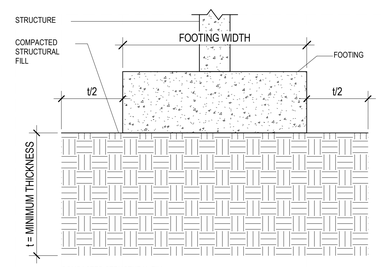
C1 S501 TYPICAL CONCRETE SLAB ON GRADE DETAILS

NO SCALE



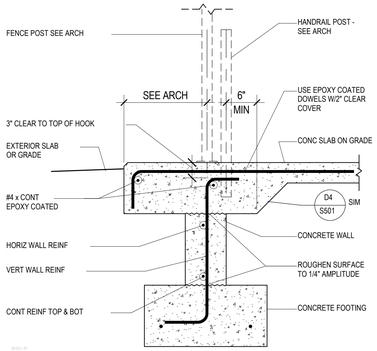
C3 S501 TYPICAL CONCRETE SLAB ON GRADE PROFILE

NO SCALE



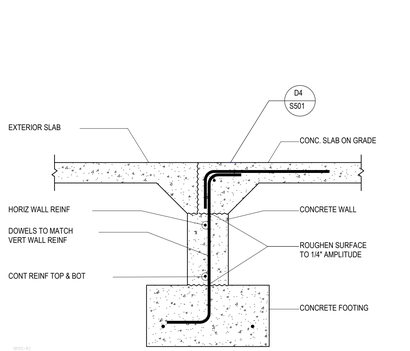
C4 S501 TYPICAL COMPACTED STRUCTURAL FILL DETAIL

NO SCALE



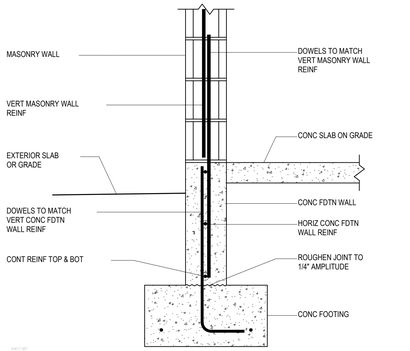
B1 S501 TYPICAL CONCRETE SLAB TO FOUNDATION WALL AT CURTAIN WALL

NO SCALE



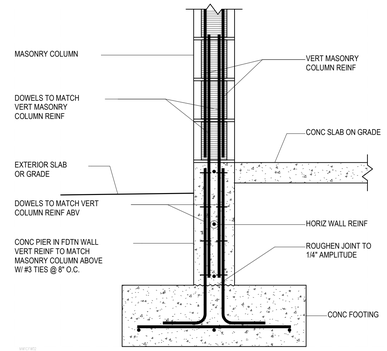
B2 S501 TYPICAL CONCRETE SLAB TO FOUNDATION WALL AT DOOR OPENING

NO SCALE



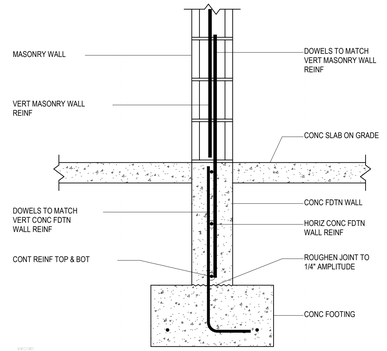
B3 S501 TYPICAL MASONRY WALL ON FOUNDATION WALL

NO SCALE



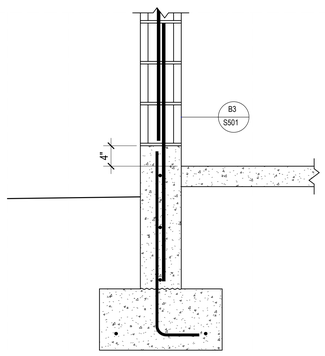
B4 S501 TYPICAL MASONRY COLUMN ON CONCRETE FOUNDATION WALL

NO SCALE



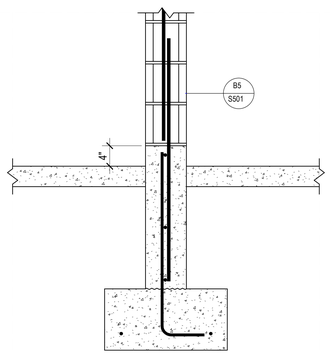
B5 S501 TYPICAL MASONRY WALL ON FOUNDATION WALL

NO SCALE



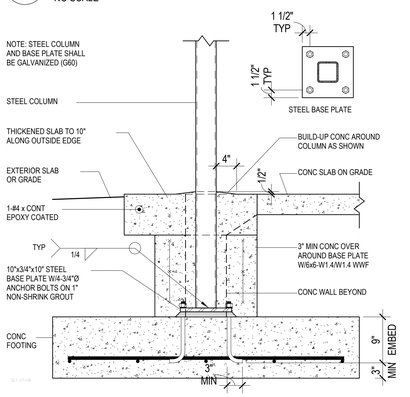
A1 S501 MASONRY WALL ON FOUNDATION WALL AT DUGOUT

NO SCALE



A2 S501 MASONRY WALL ON FOUNDATION WALL AT DUGOUT

SCALE: 1" = 1'-0"



A3 S501 STEEL COLUMN BASE AT CONCRETE FOOTING FOR DUGOUT

NO SCALE

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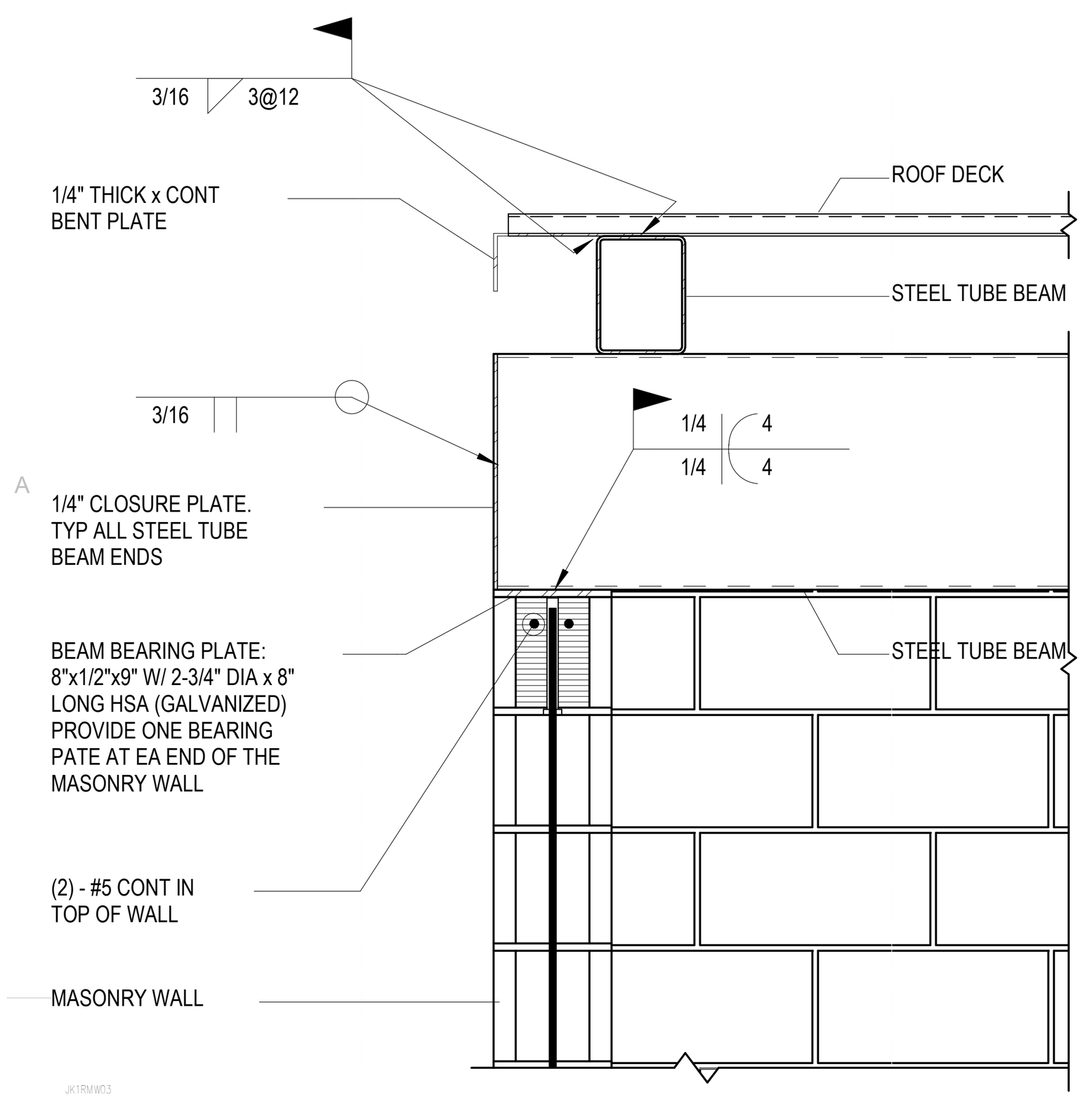
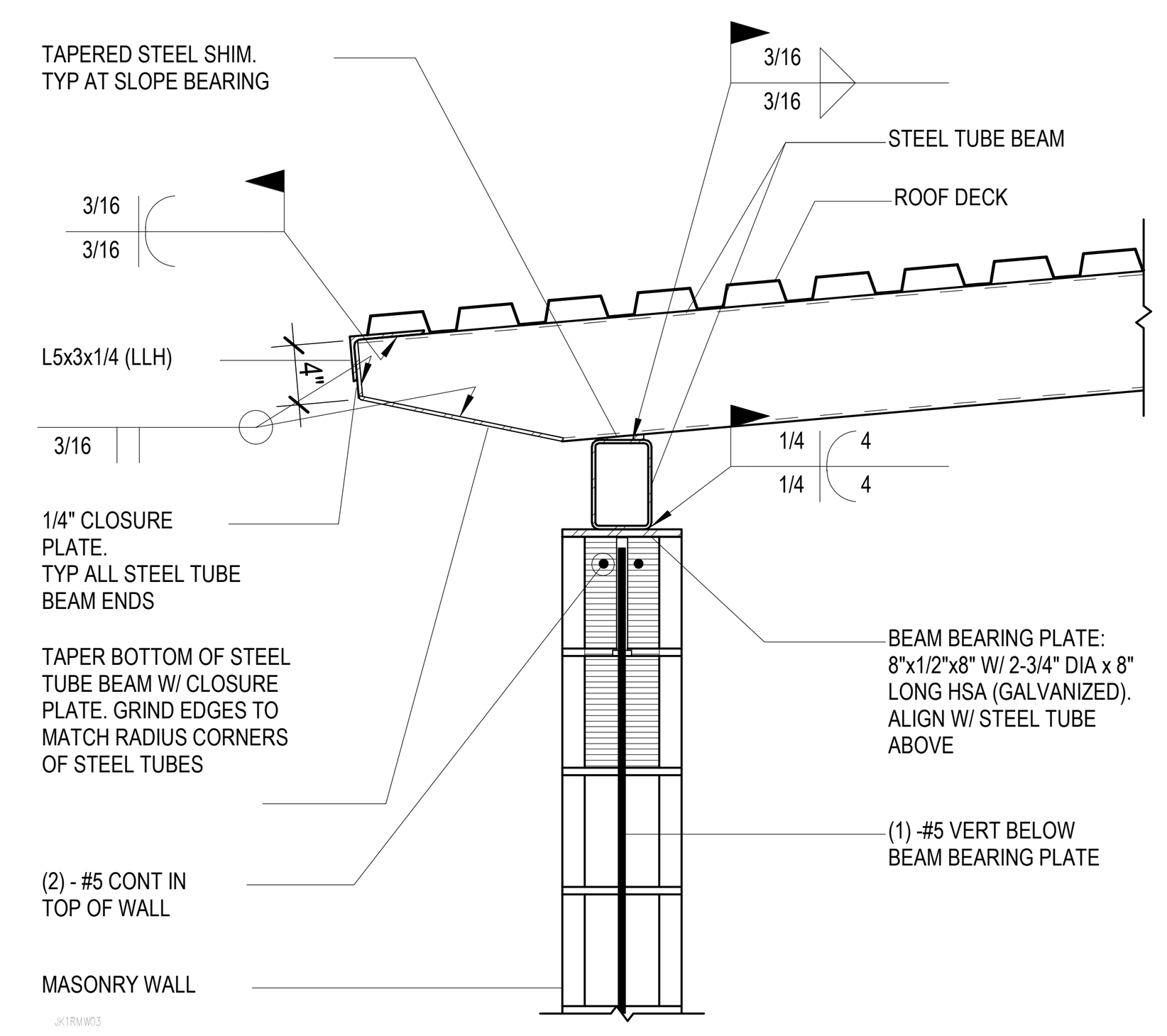


D1 S511 TYP STEEL BEAM BEARING AT MASONRY WALL/COLUMN
NO SCALE



D2 S511 TYP STEEL BEAM BEARING AT MASONRY WALL/COLUMN
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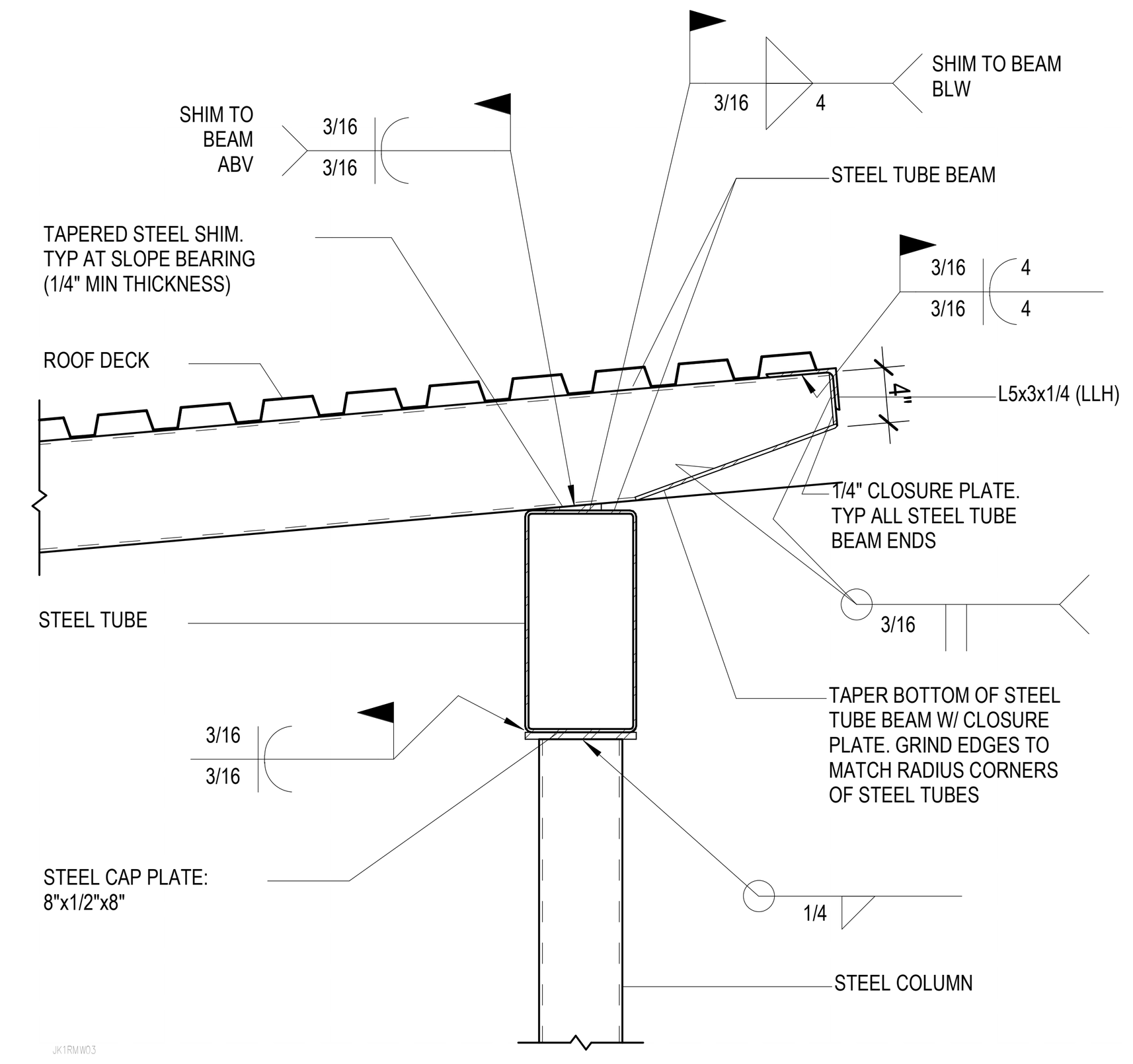
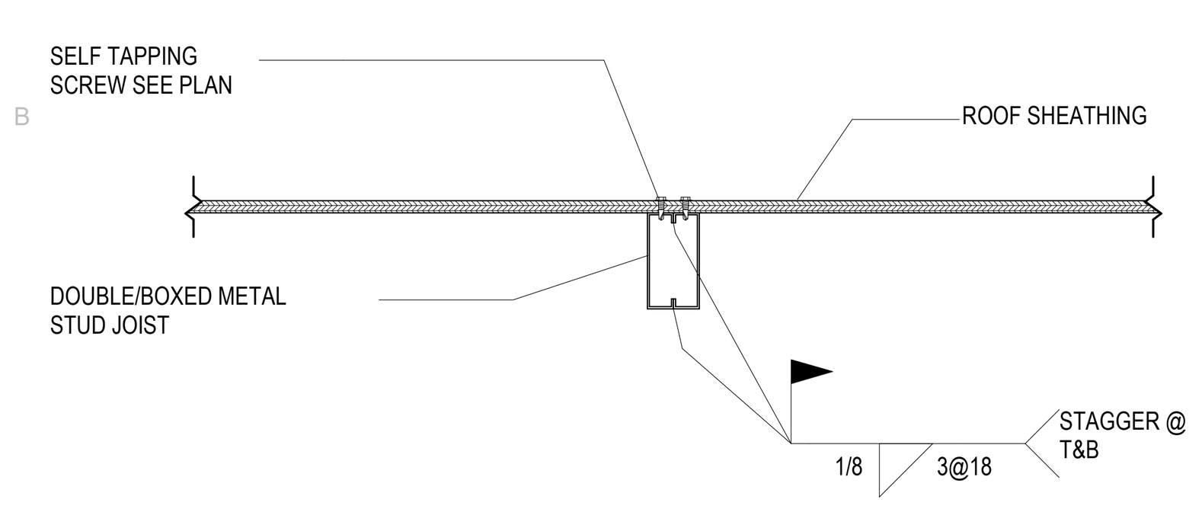
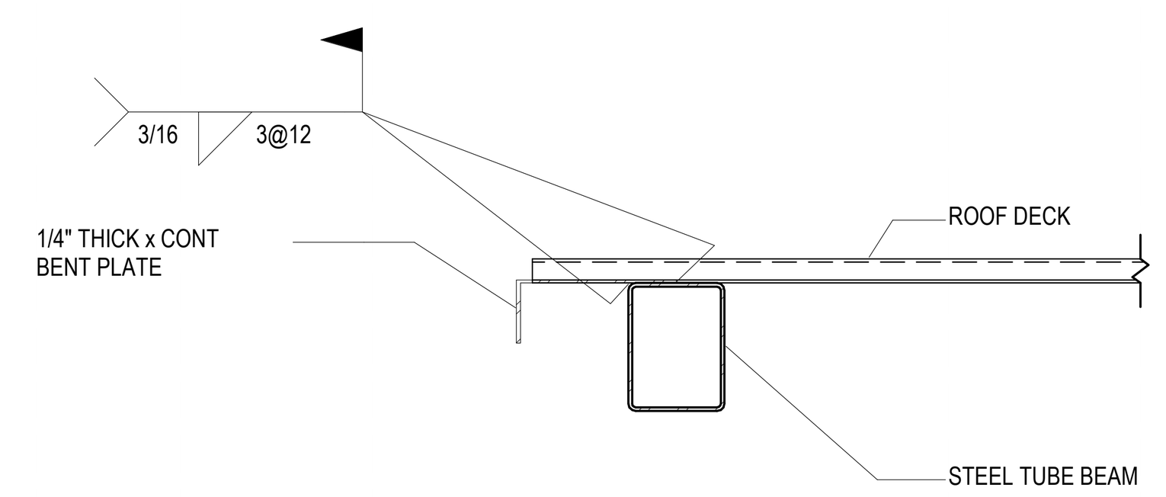


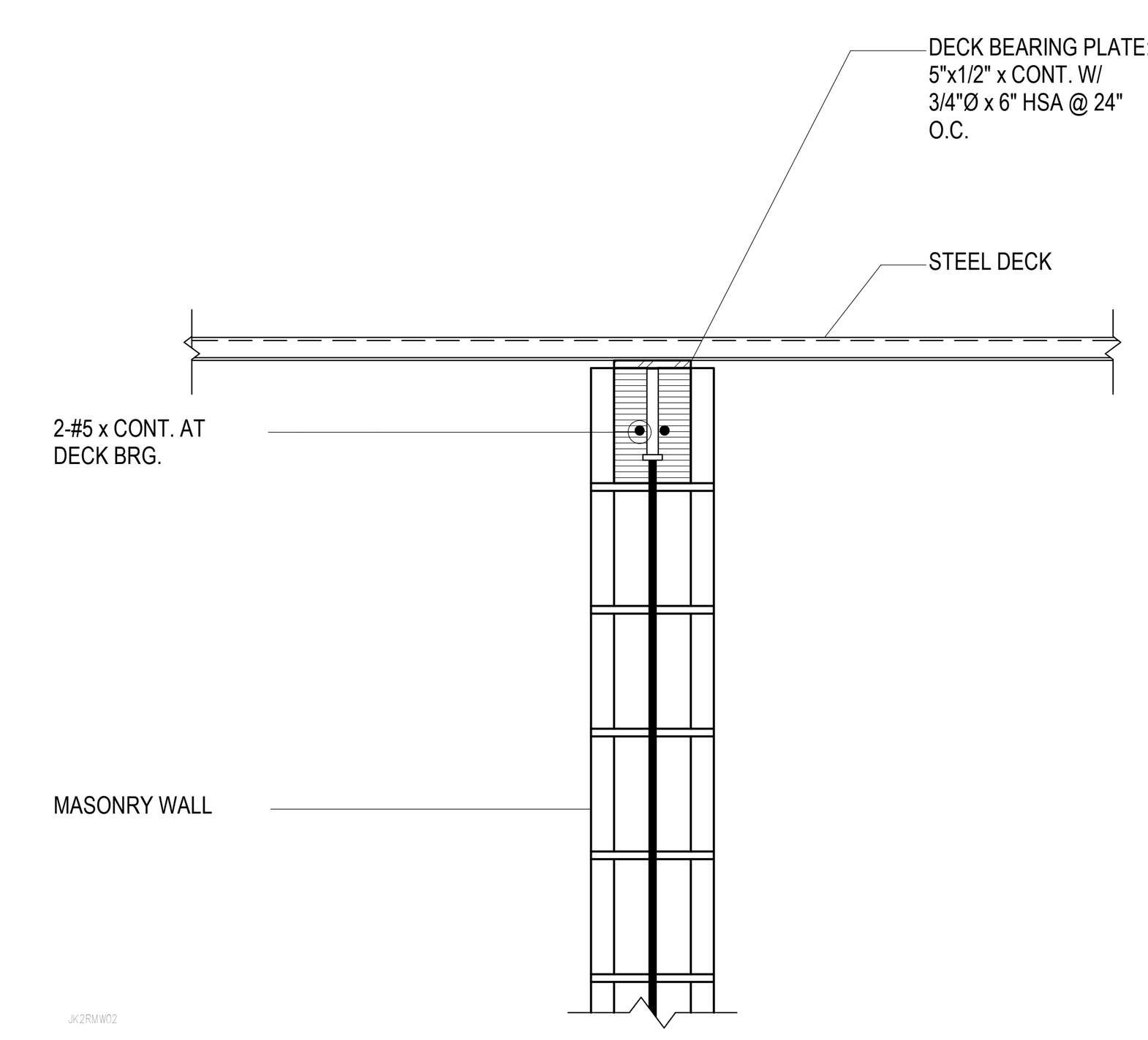
D3 S511 TYP STEEL BEAM BEARING AT STEEL COLUMN
NO SCALE



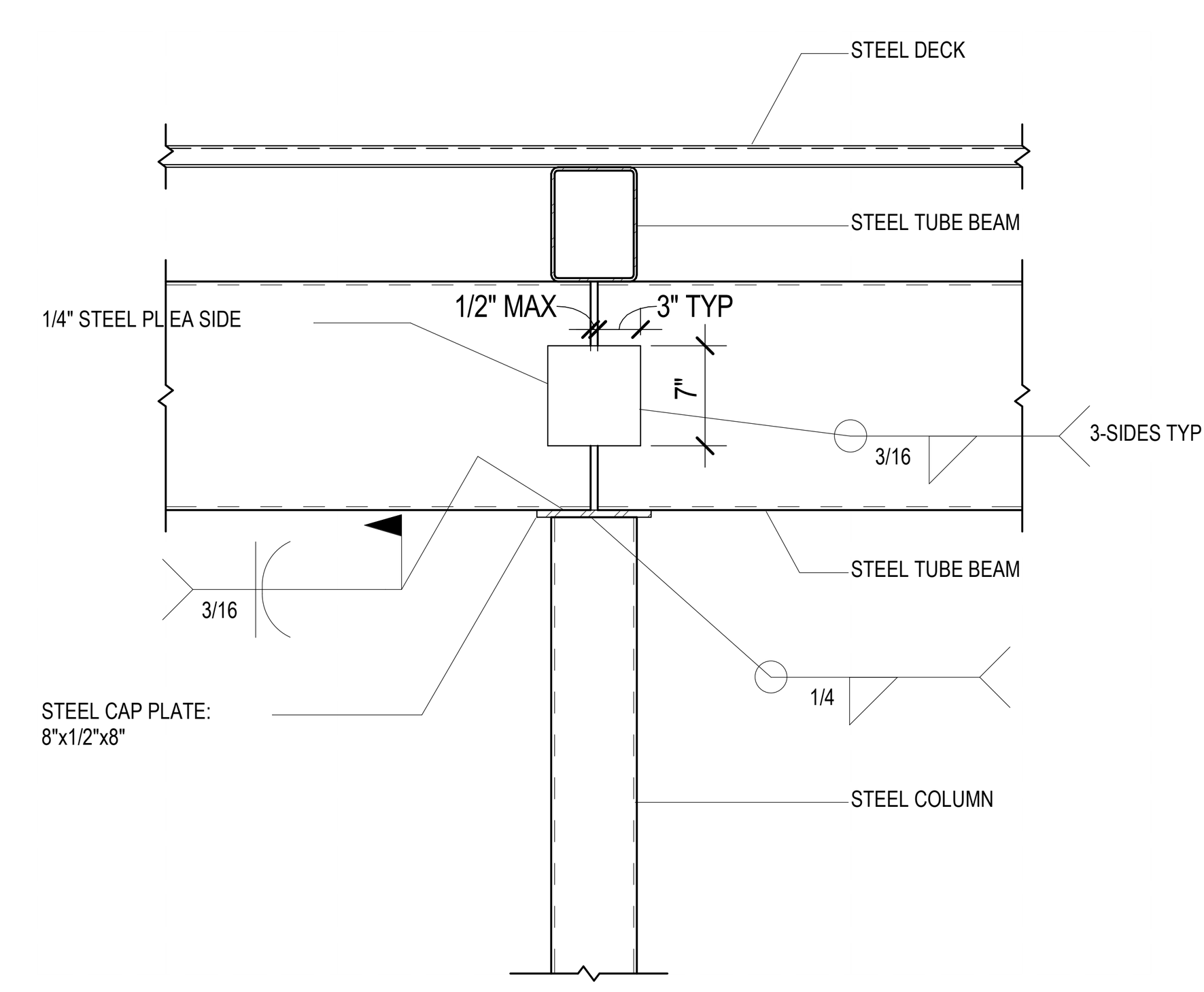
C1 S511 DOUBLE/BOXED METAL STUD JOIST
NO SCALE



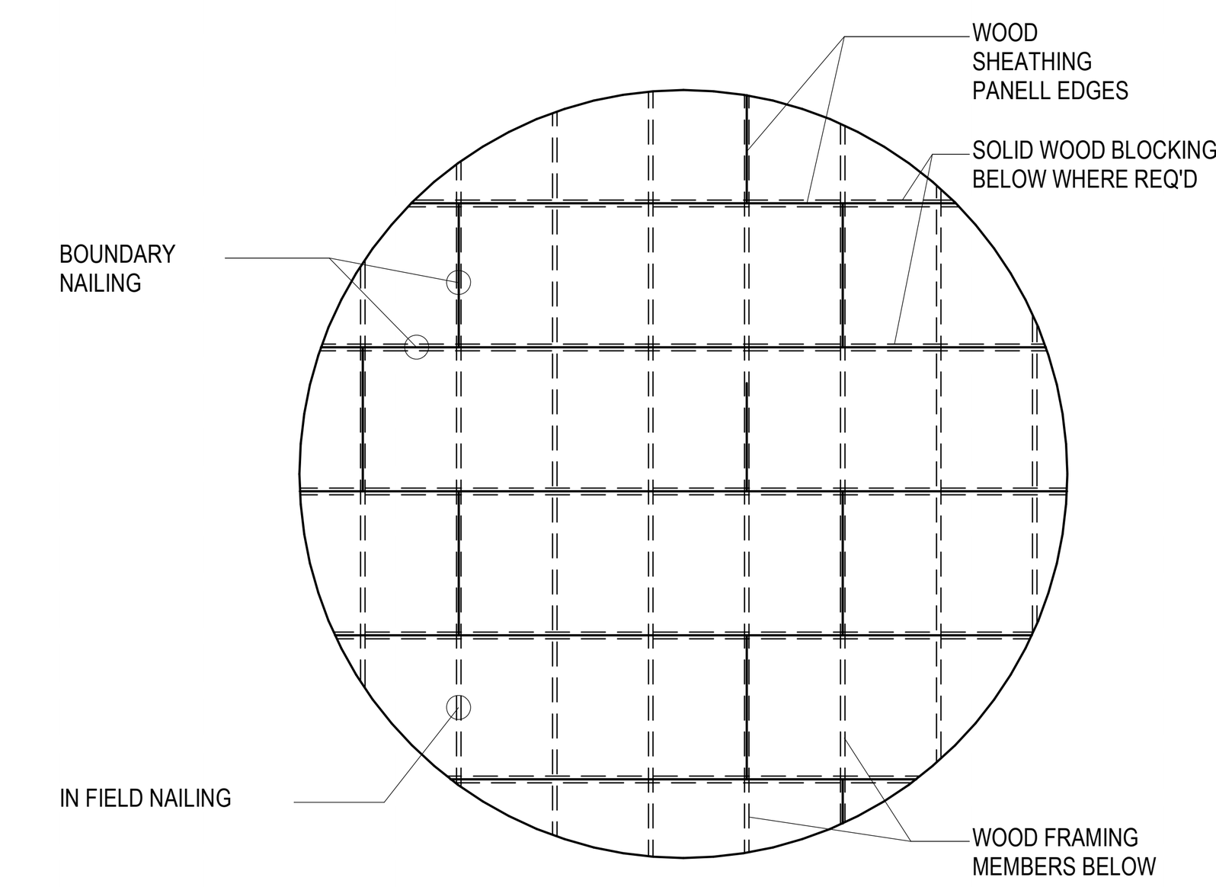
C2 S511 DECK BEARING AT STEEL TUBE BEAM
NO SCALE



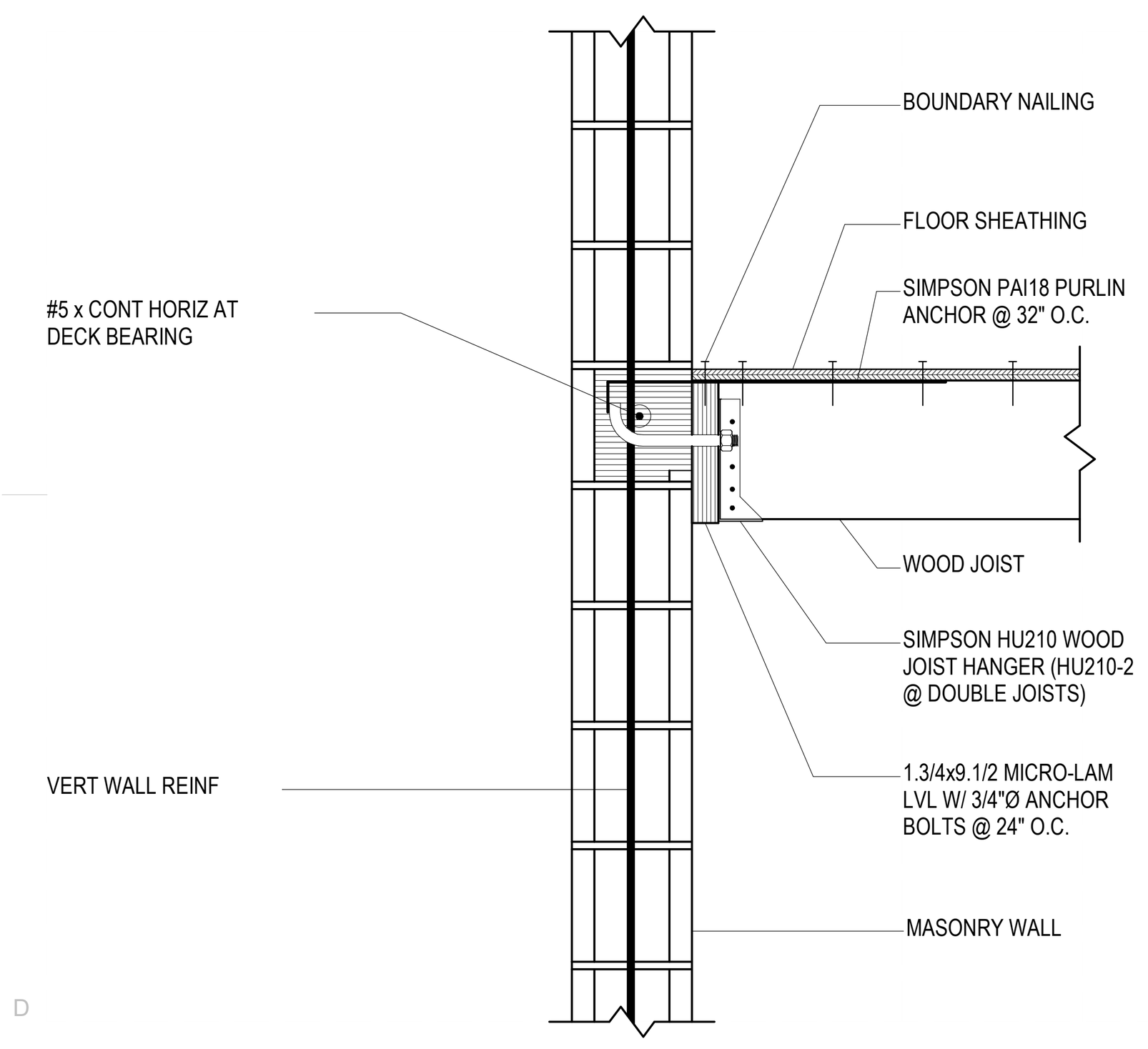
C3 S511 STEEL DECK BEARING AT MASONRY WALL
NO SCALE



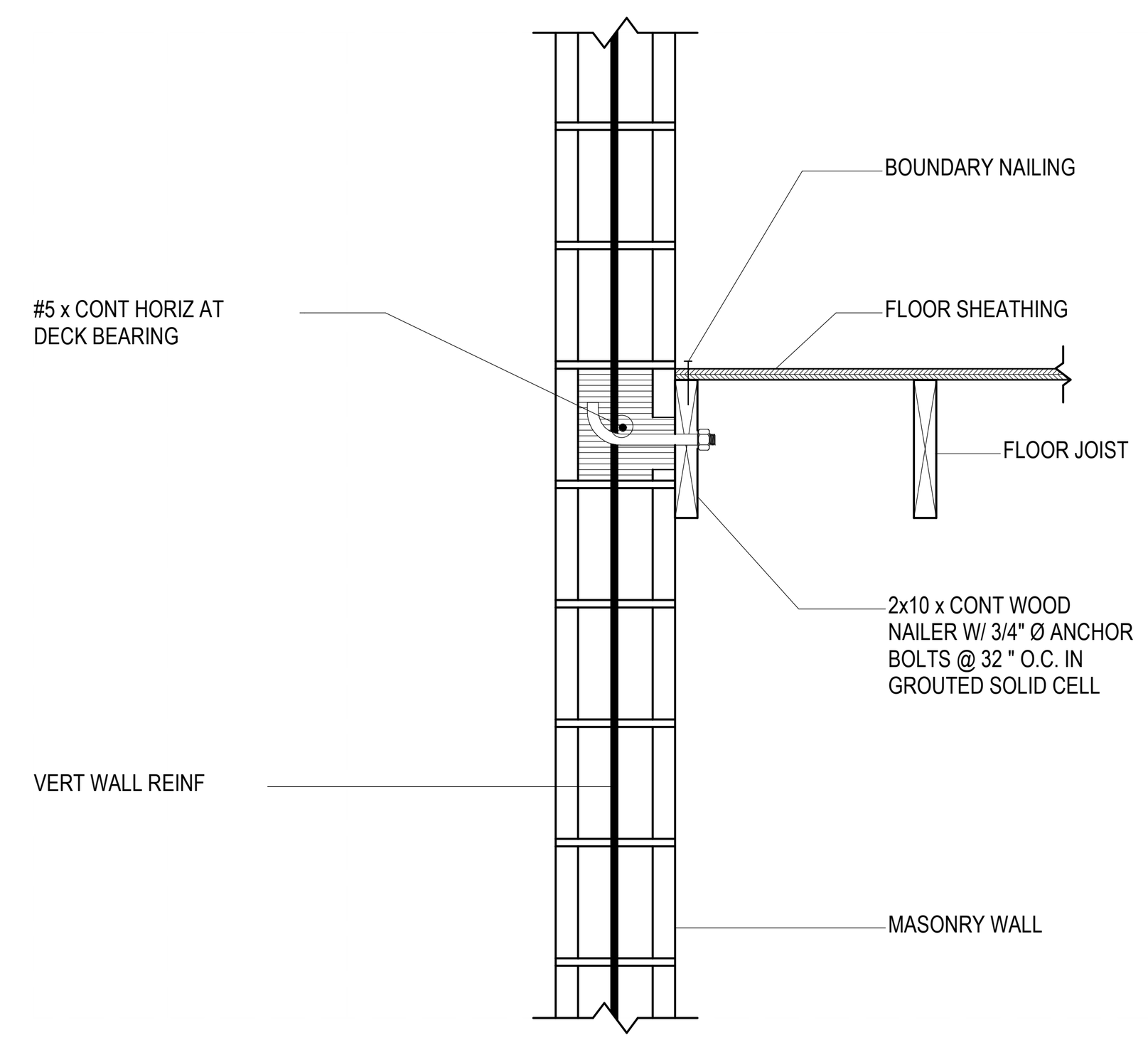
C4 S511 TYP STEEL BEAM BEARING AT MASONRY WALL/COLUMN
NO SCALE



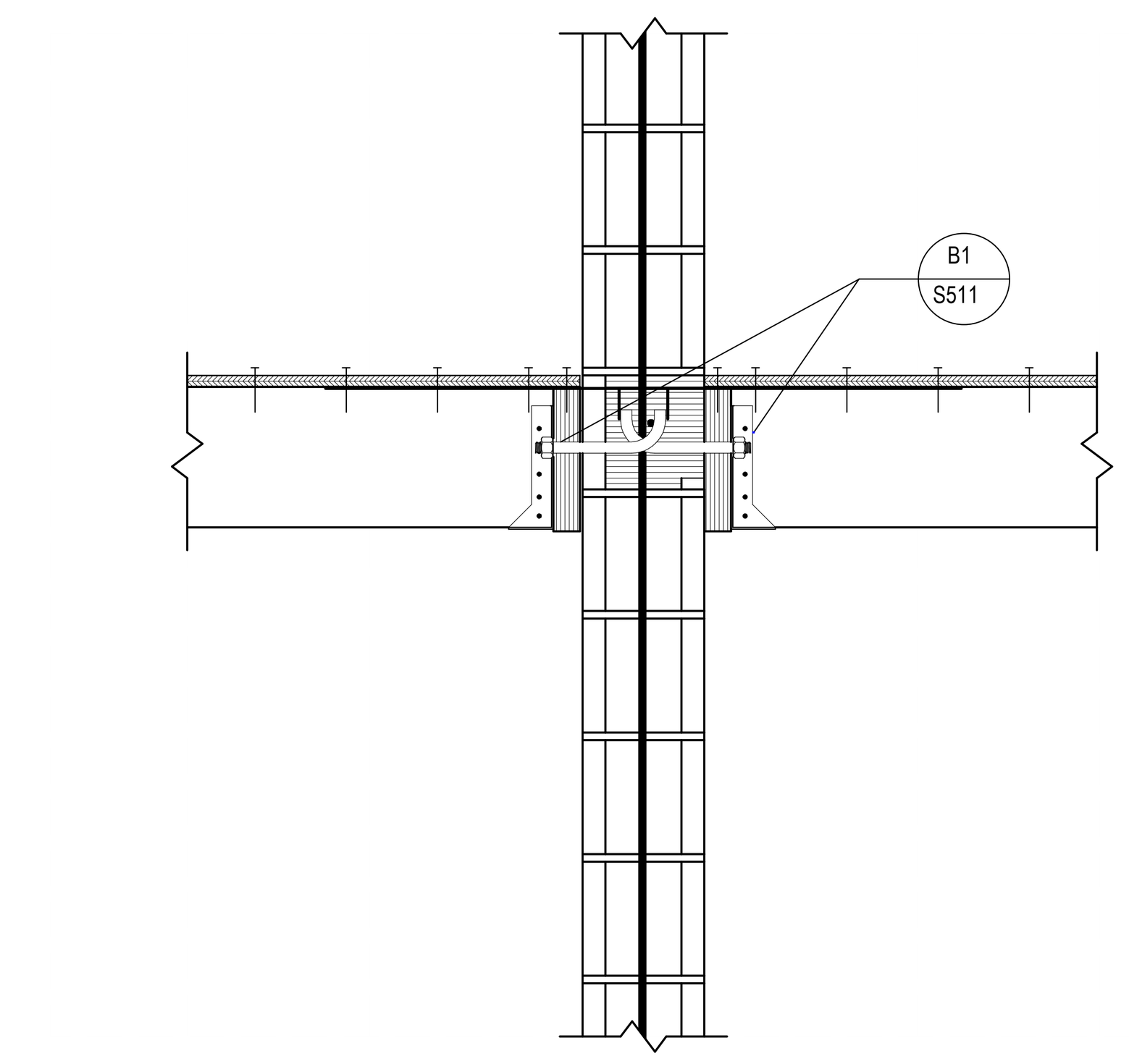
C5 S511 TYPICAL WOOD DIAPHRAGM SHEATHING PANEL LAYOUT (PLAN VIEW)
NO SCALE



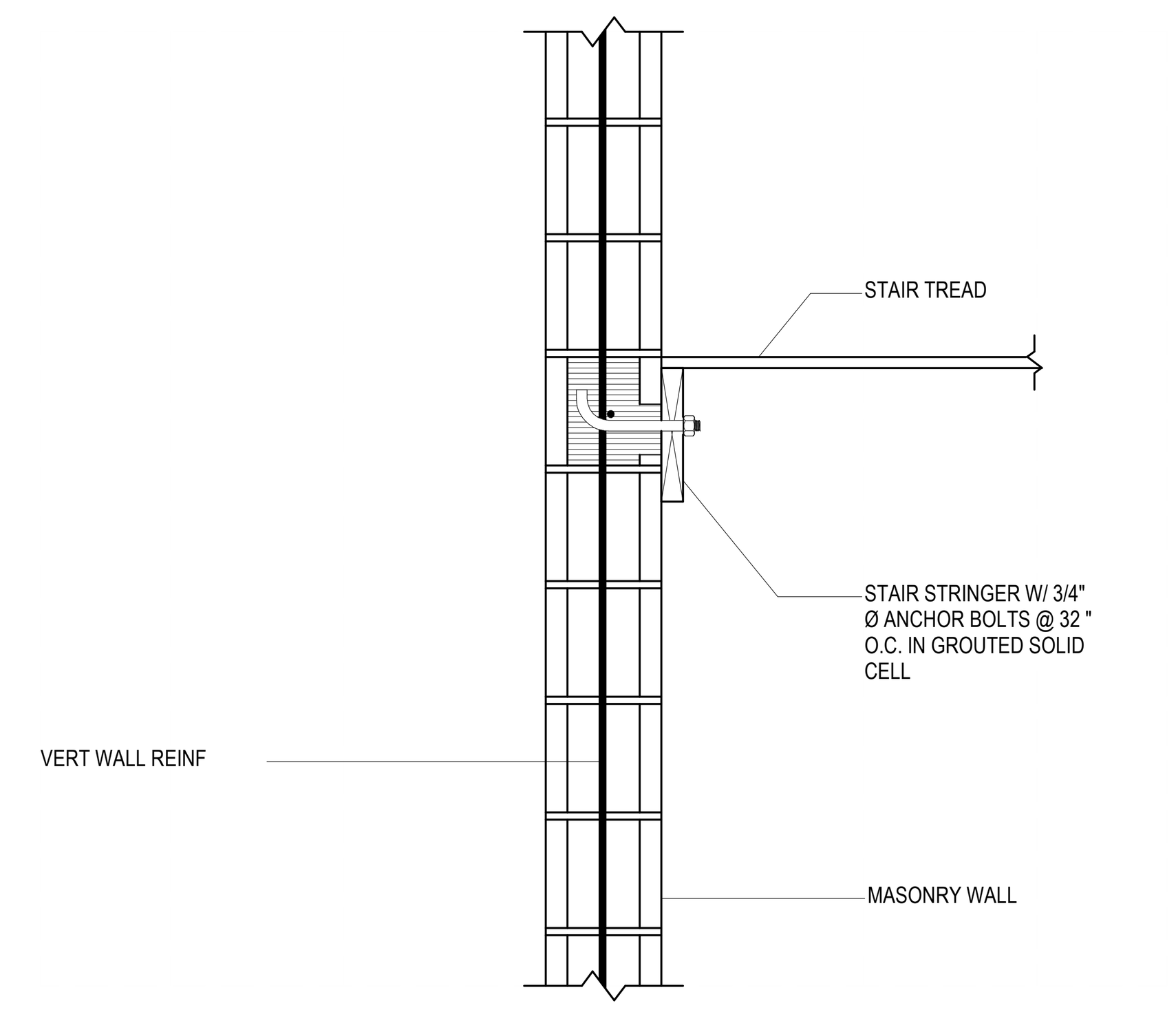
B1 S511 WOOD JOIST CONNECTION AT MASONRY WALL
NO SCALE



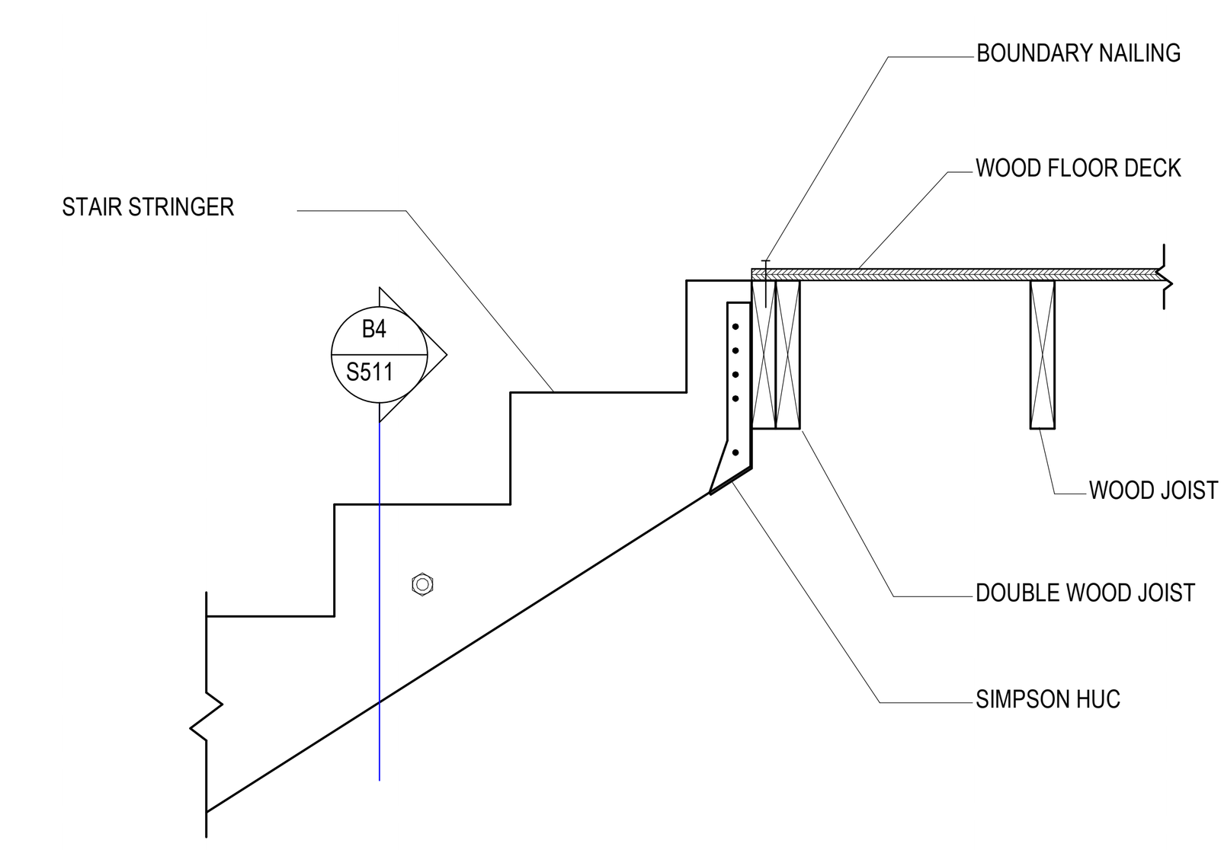
B2 S511 FLOOR SHEATHING CONNECTION TO MASONRY WALL
NO SCALE



B3 S511 WOOD JOIST CONNECTION AT MASONRY WALL
NO SCALE



B4 S511 STAIR STRINGER CONNECTION
NO SCALE



B5 S511 STAIR STRINGER CONNECTION
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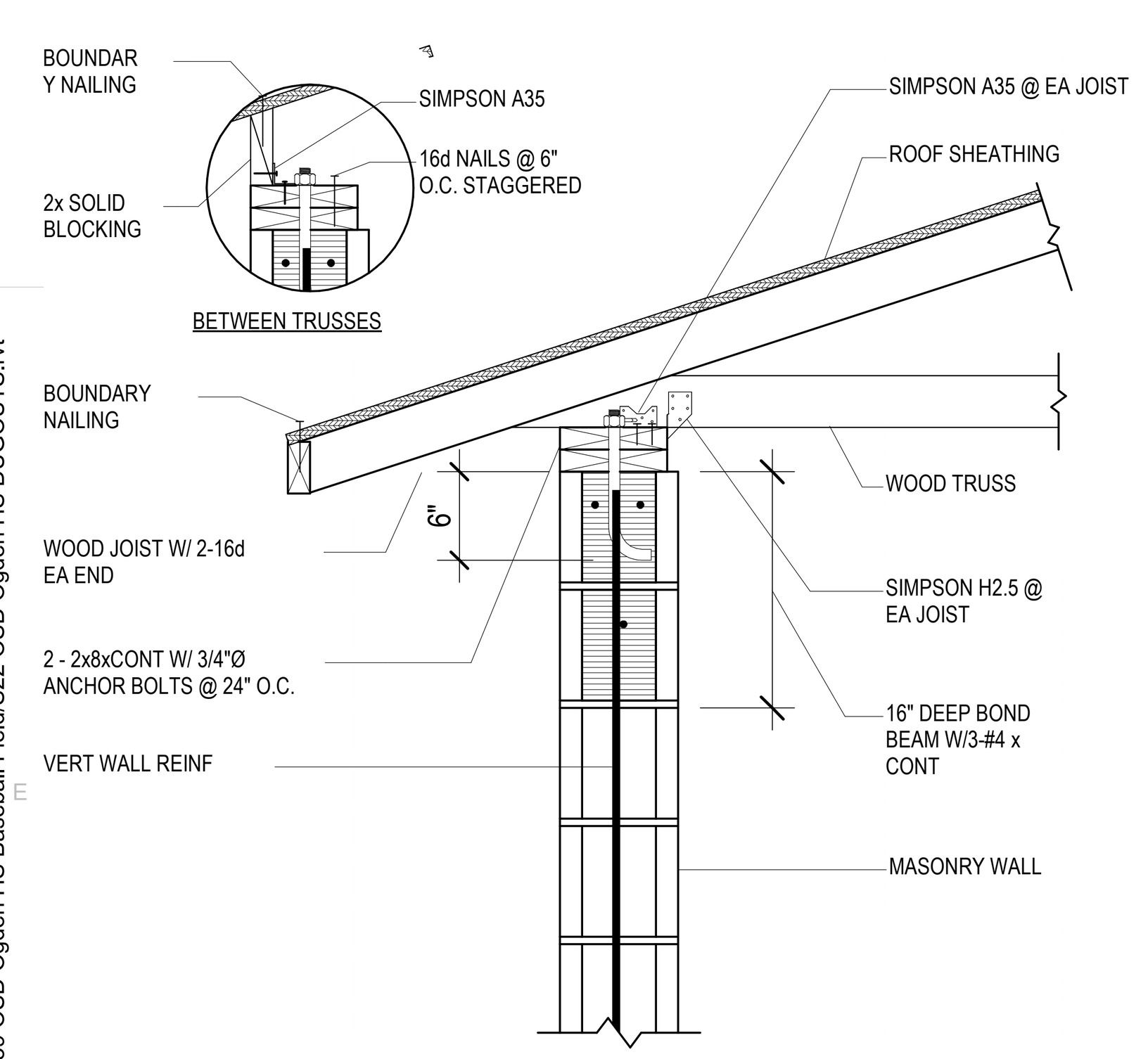
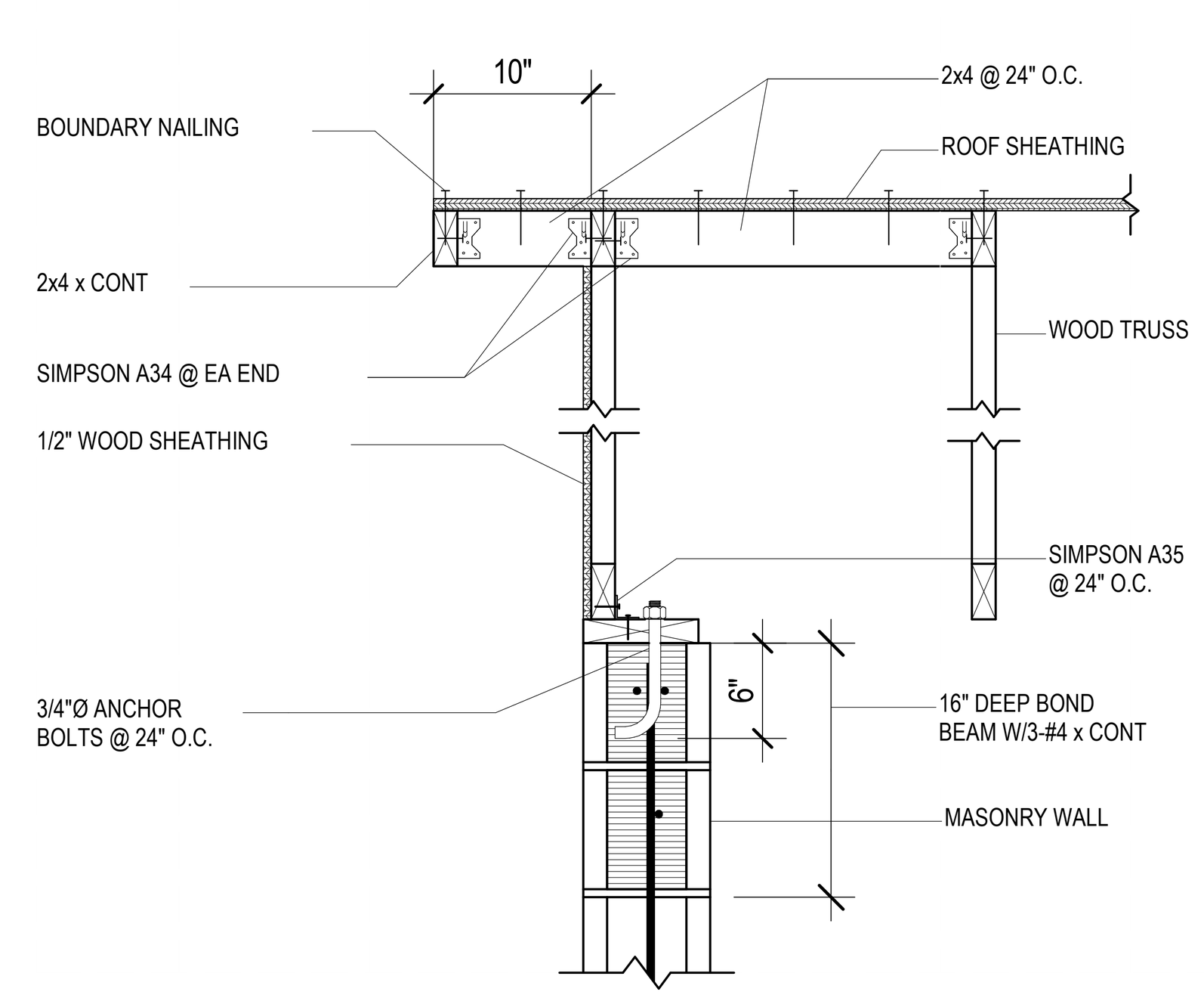
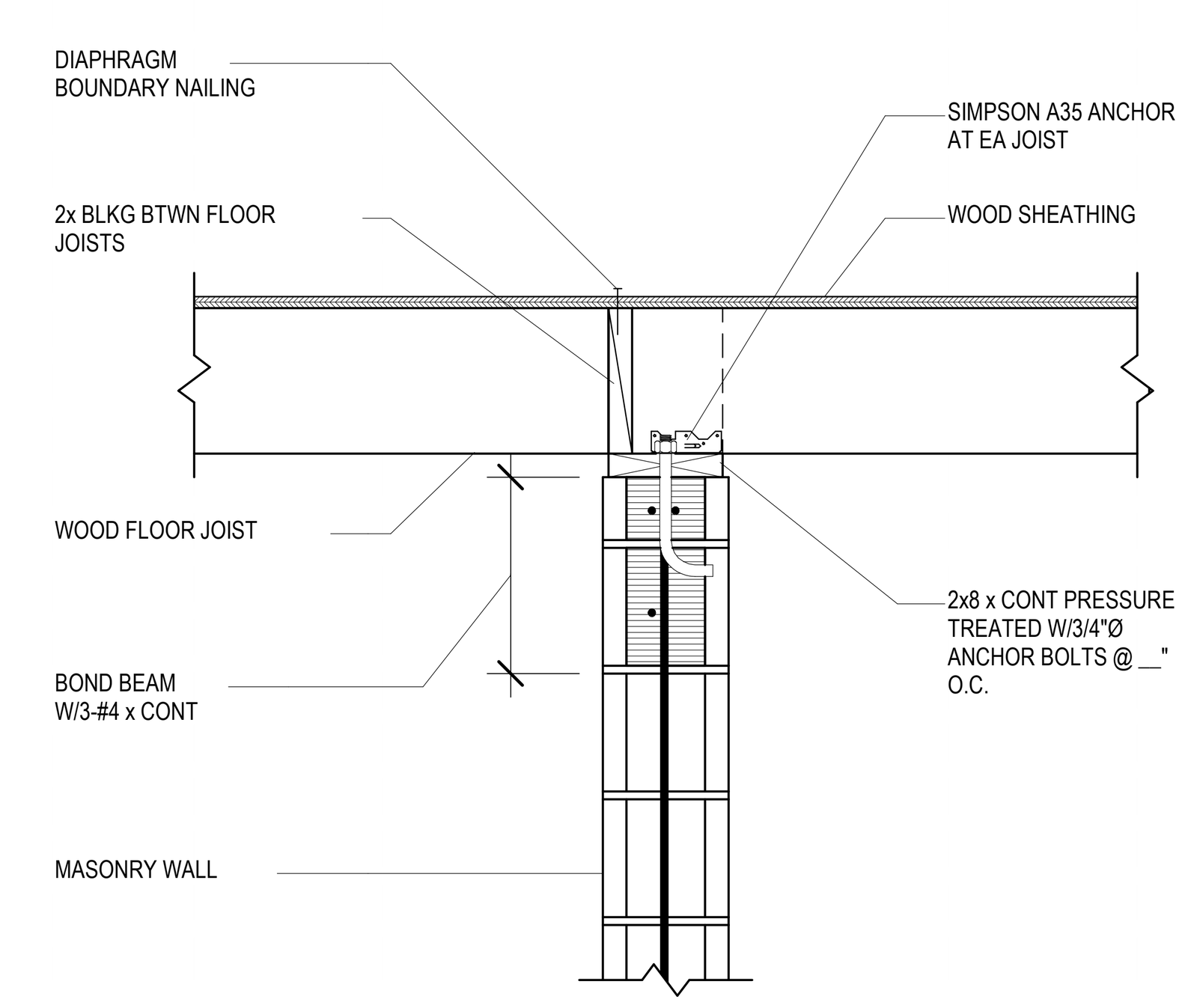


A1 S511 WOOD TRUSS CONNECTION AT MASONRY WALL
NO SCALE



A2 S511 WOOD TRUSS CONNECTION AT MASONRY COLUMN/WALL
NO SCALE



A3 S511 WOOD JOIST CONNECTION AT MASONRY WALL
NO SCALE

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S511

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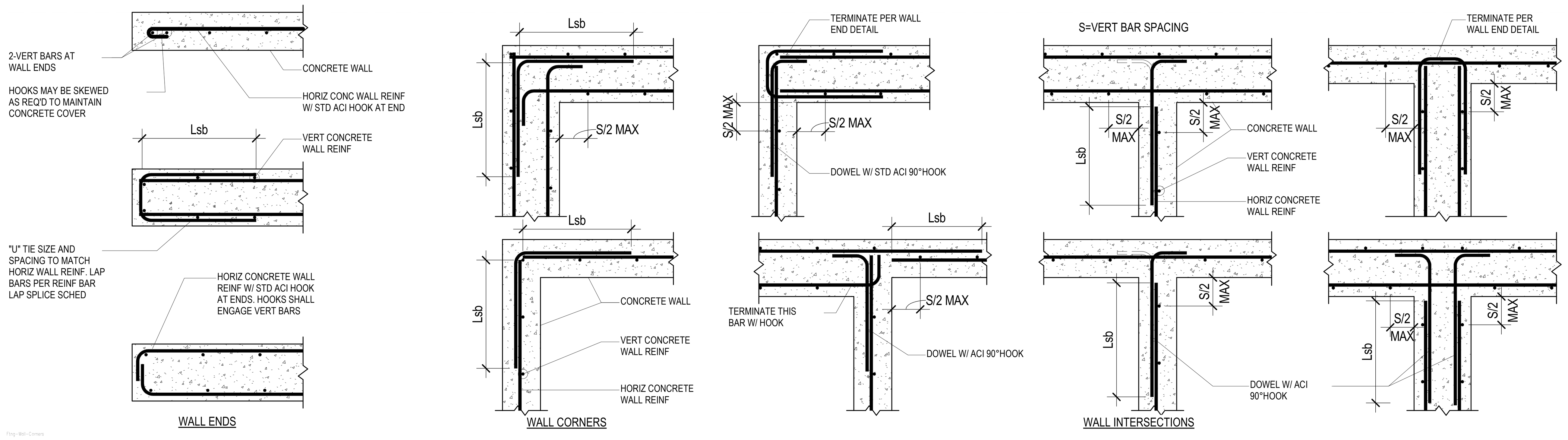
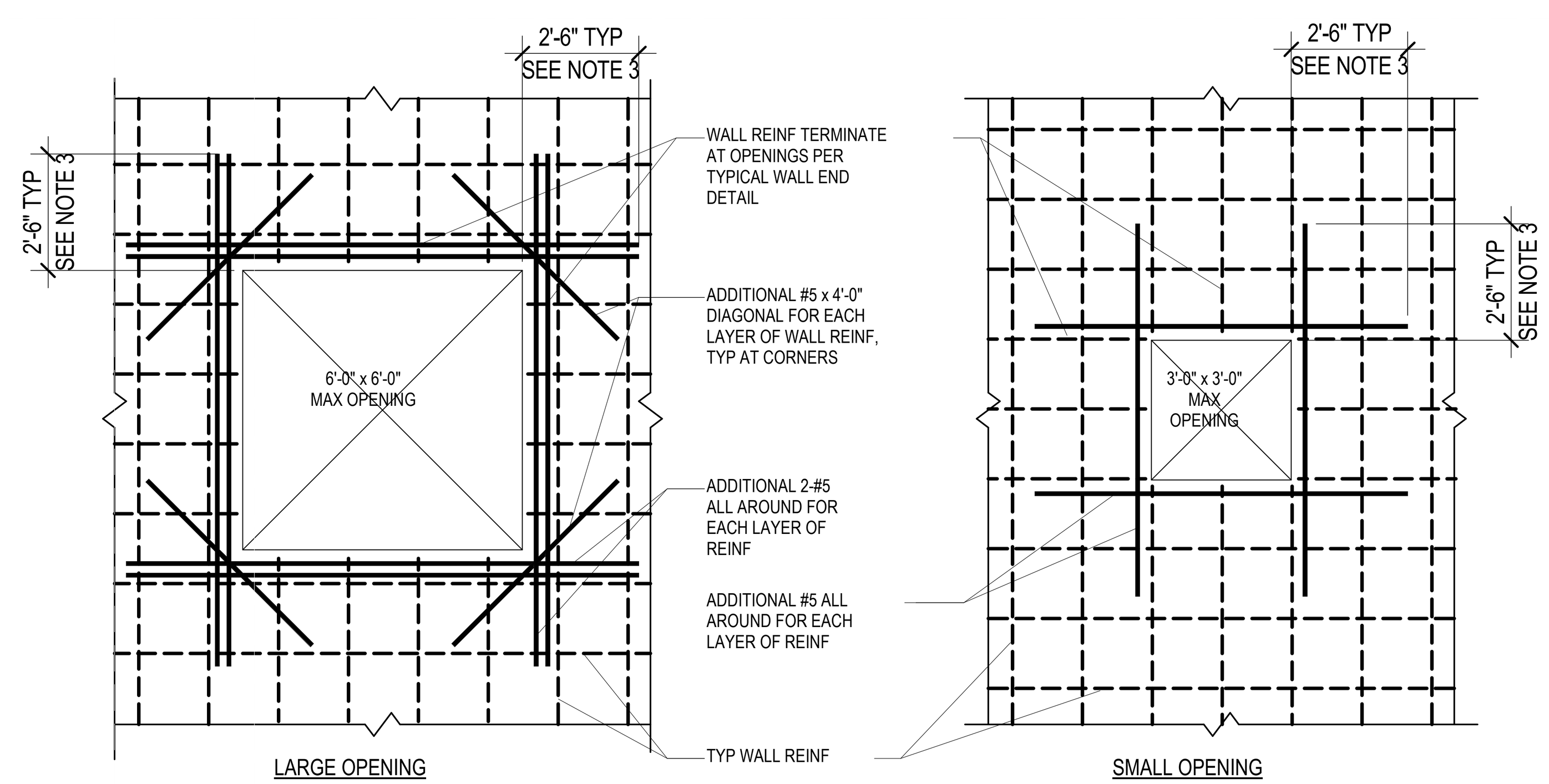


D2 / S601 — TYPICAL CONCRETE WALL REINFORCING AT ENDS, CORNERS AND INTERSECTIONS (PLAN VIEWS)

NO SCALE



NOTES:
1. OMIT ADDED REINFORCEMENT SHOWN WHEN SPECIAL REINFORCEMENT INDICATED ON PLANS OR DETAILS, EXCEEDS THIS REINFORCEMENT.

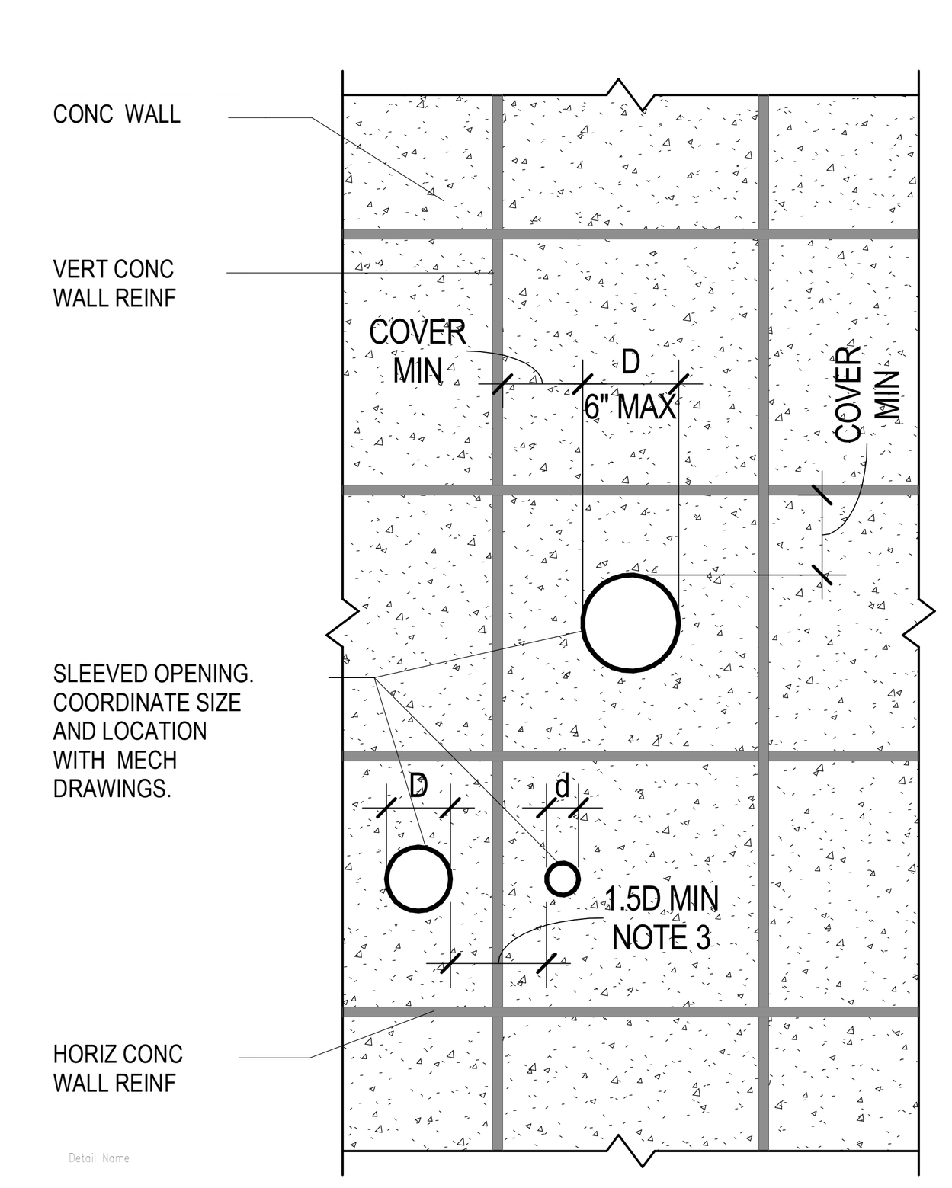
2. CONTRACTOR SHALL VERIFY ALL OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS WITH THE STRUCTURAL ENGINEER BEFORE PLACEMENT.

3. WHEN EDGE OF CONCRETE CLOSE TO OPENING WILL NOT ALLOW THIS LENGTH TERMINATE AT EDGE WITH STANDARD HOOK.

4. WHERE MULTIPLE OPENINGS OCCUR WITHIN TWO TIMES THE OPENING DIMENSION, THE GROUP OF OPENINGS SHALL BE TREATED AS A SINGLE OPENING

C2 / S601 — TYPICAL OPENINGS THROUGH CONCRETE WALLS

NO SCALE



NOTES:
1. SLEEVED OPENINGS SHALL NOT OCCUR IN JAMB COLUMNS OR COUPLING BEAMS.

2. SLEEVED OPENINGS SHALL NOT CUT HORIZ OR VERT WALL REINF. SEE TYPICAL OPENING THROUGH CONCRETE WALL DETAIL WHERE THIS OCCURS.

3. MULTIPLE SLEEVED OPENINGS WITHIN 1.5D OF EACH OTHER SHALL BE TREATED AS ONE OPENING.

4. WHERE SLEEVE EXCEEDS DIMENSIONAL REQUIREMENTS OF THIS DETAIL, USE THE TYPICAL OPENING THROUGH CONCRETE WALL DETAIL.

5. CONTRACTOR SHALL COORDINATE WITH ARCH THAT SLEEVE MATERIAL IS CONSISTANT WITH FIRE RESISTANCE REQUIREMENTS

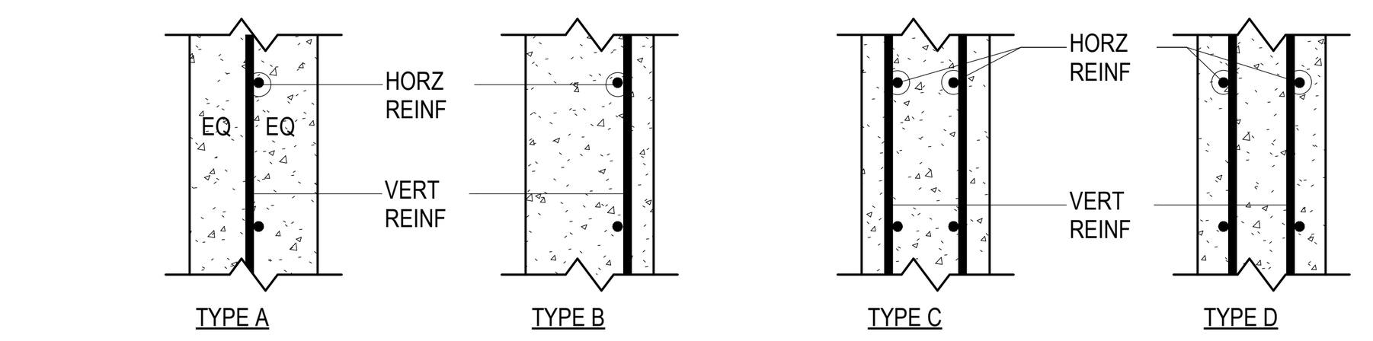
C4 / S601 — TYPICAL SLEEVED OPENING THROUGH CONCRETE WALL

NO SCALE

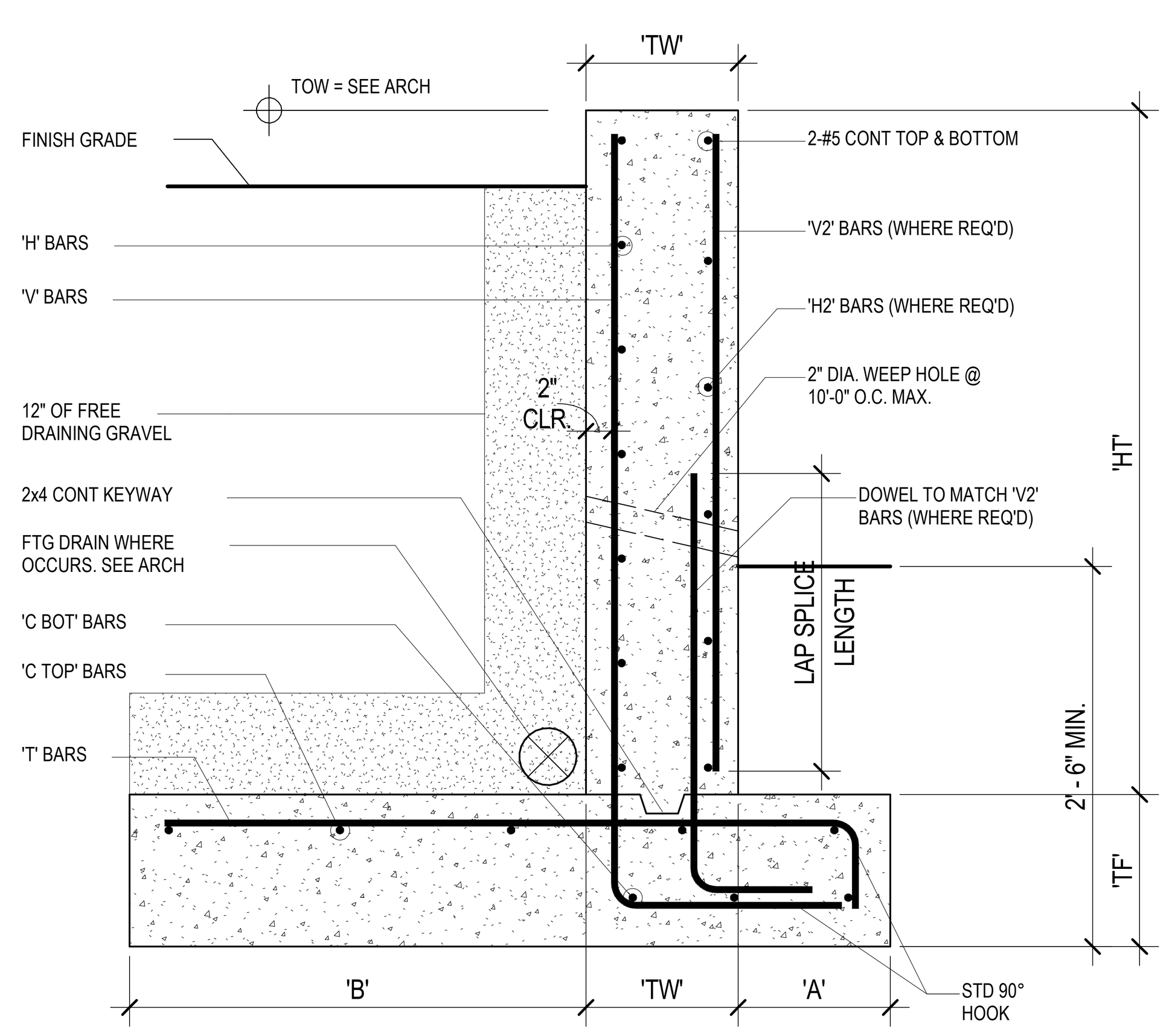
CONCRETE FOUNDATION WALL SCHEDULE					
MARK	THICK	HORIZONTAL REINFORCING	VERTICAL REINFORCING	T & B HORIZ. BARS	PLACEMENT
CFW-1	8"	#4 @ 16" O.C.	#5 @15" O.C.	1-#4	TYPE A

NOTES:
1. HORIZONTAL WALL REINFORCING SHALL BE CONTINUOUS THRU CONSTRUCTION & CONTROL JOINTS.
2. SPLICES IN HORIZONTAL WALL REINFORCING SHALL BE TYPE Lsb, STAGGERED SUCH THAT SPLICES DO NOT OVERLAP. SPLICES IN TWO CURTAINS SHALL NOT OCCUR IN THE SAME LOCATION.

PLACEMENT TYPE



E.F. = EACH FACE
O.F. = OUTSIDE FACE (AGAINST SOIL)
I.F. = INSIDE FACE
3L = THREE LAYERS



CONCRETE RETAINING WALL SCHEDULE																				
						'V' BARS		'H' BARS		'V2' BARS		'H2' BARS		'T' BARS		'C TOP' BARS		'C BOT' BARS	
MARK	"HT"	'A'	'B'	'TW'	'TF'	SIZE	SPACE	SIZE	SPACE	SIZE	SPACE	SIZE	SPACE	SIZE	SPACE	SIZE	SPACE	SIZE	SPACE
CRW-1	3' - 0"	8"	8"	8"	1' - 0"	#4	18"	#4	12"	--	--	--	--	#4	9"	3-#5	9"	2-#5	18"
CRW-2	3' - 0"	8"	8"	10"	1' - 0"	#5	18"	#5	14"	--	--	--	--	#4	9"	3-#5	10"	2-#5	18"
CRW-3	4' - 6"	8"	2' - 0"	8"	1' - 0"	#4	18"	#4	12"	--	--	--	--	#4	9"	4-#5	11.3"	2-#5	18"
CRW-4	4' - 6"	8"	2' - 0"	10"	1' - 0"	#5	18"	#5	14"	--	--	--	--	#4	9"	4-#5	12"	2-#5	18"
CRW-5	6' - 0"	1' - 0"	3' - 3"	8"	1' - 0"	#4	9"*	#4	12"	--	--	--	--	#4	9"	5-#5	13.2"	2-#5	18"
CRW-6	6' - 0"	1' - 0"	3' - 3"	10"	1' - 0"	#5	18"	#5	14"	--	--	--	--	#4	9"	5-#5	13.7"	2-#5	18"

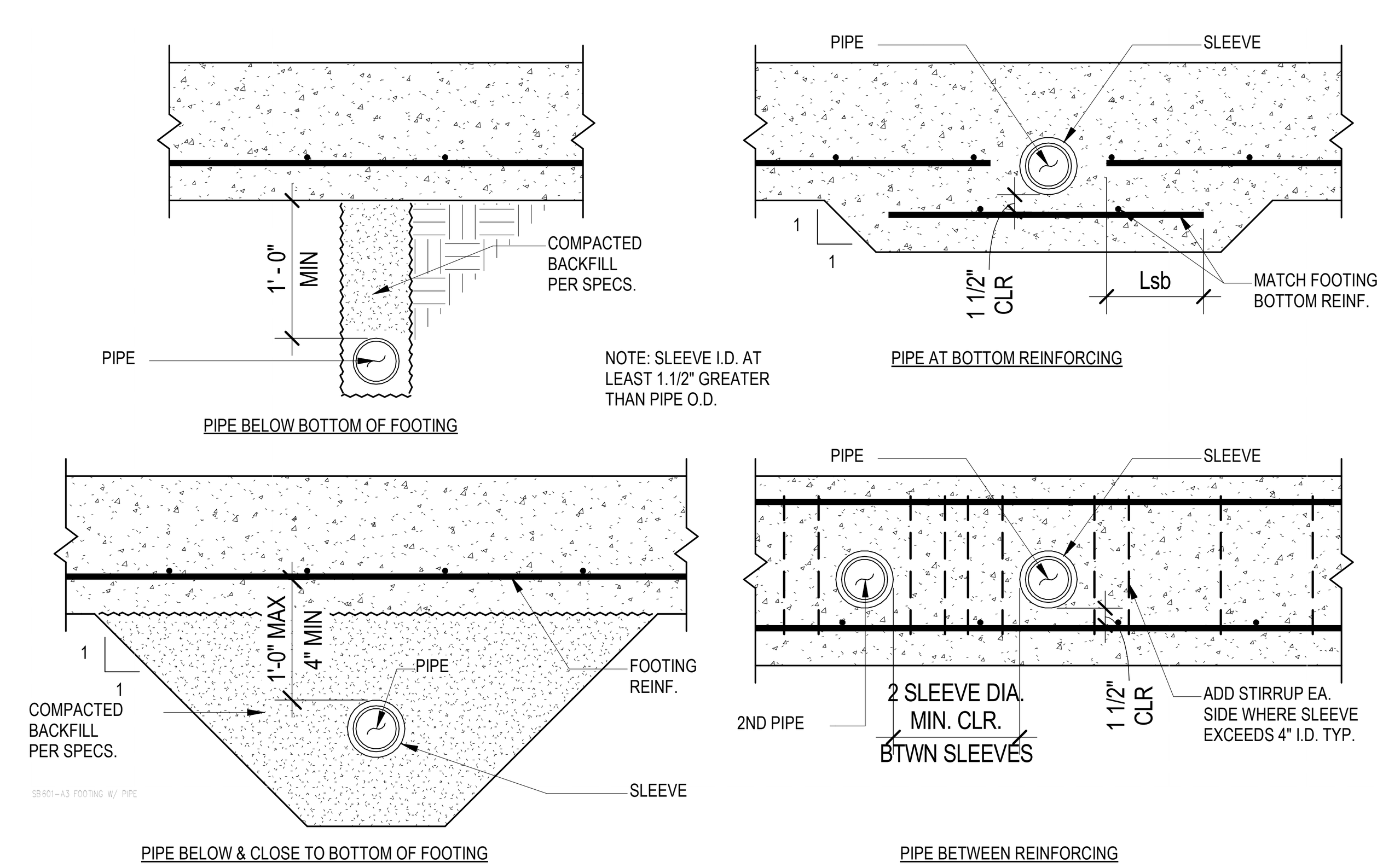
1. 'V' BARS SHALL NOT BE SPLICED BELOW MID-HEIGHT OF WALL
2. FOR WALLSINDICATED BY (*), ONE HALF OF THE 'V' BARS CAN BE DISCONTINUED FROM MID-HEIGHT TO TOP OF WALL.
3. SEE CIVIL DRAWINGS FOR WALL LOCATIONS. USE CRW BASED ON WALL THICKNESS AND HEIGHT ON THE CIVIL DRAWINGS.

A1 / S601 — TYPICAL CONCRETE RETAINING WALL SCHEDULE AND DETAIL

NO SCALE

CONCRETE FOOTING SCHEDULE												
				CROSSWISE REINFORCING				LENGTHWISE REINFORCING				
MARK	WIDTH	LENGTH	THICK	NO.	SIZE	LENGTH	SPACE	NO.	SIZE	LENGTH	SPACE	REMARKS
FC2.0	2' - 0"	CONT.	1' - 0"	--	NONE	REQ'D	--	3	#4	CONT.	9"	
FC4.0	4' - 0"	CONT.	1' - 0"	--	#5	3' - 6"	14"	4	#5	CONT	14"	
FS4.0	4' - 0"	4' - 0"	1' - 0"	6	#4	3' - 6"	8.4"	6	#4	3' - 6"	8.4"	

1. PLACE ALL FOOTING REINFORCING IN BOTTOM OF FOOTING WITH 3" CLEAR CONCRETE COVER UNLESS NOTED OTHERWISE.
2. TOP REINFORCING, WHERE SPECIFIED, SHALL BE PLACED IN THE TOP OF THE FOOTING WITH 2" CLEAR CONCRETE COVER.
3. SPOT FOOTINGS SHALL BE CENTERED UNDER COLUMNS AND CONTINUOUS FOOTINGS SHALL BE CENTERED UNDER WALLS, UNLESS NOTED OTHERWISE.
4. ALL FOOTINGS SHALL BE FORMED. FOOTINGS SHALL NOT BE EARTH FORMED OR OVERSIZED WITHOUT WRITTEN PERMISSION FROM THE STRUCTURAL ENGINEER.



A3 / S601 — PIPES PENETRATING & ADJACENT TO FOOTINGS OR GRADE BEAMS

NO SCALE

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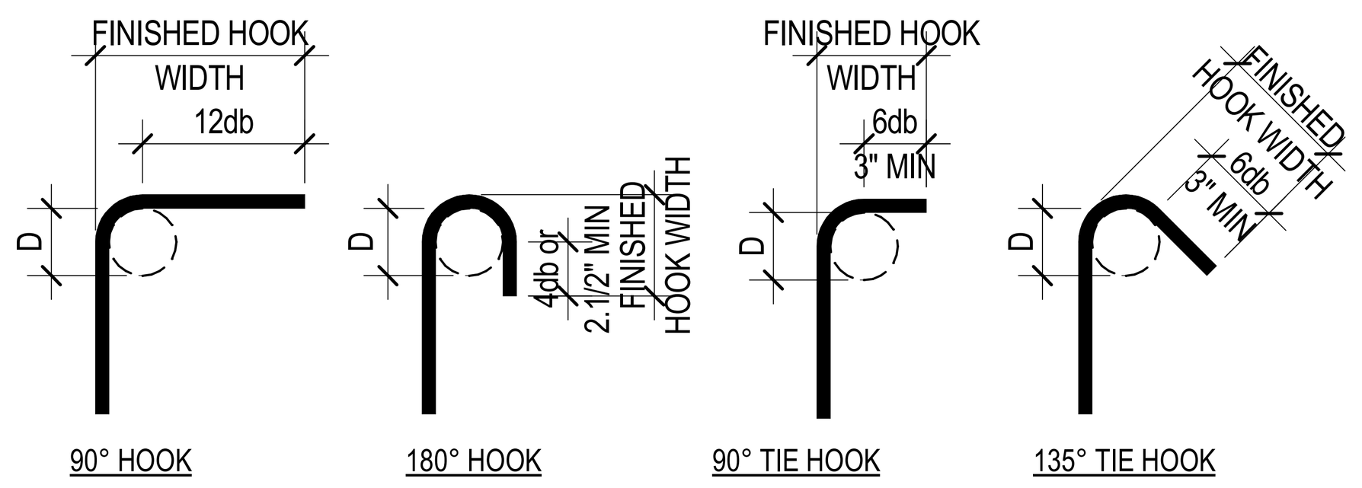
ISSUE
CONSTRUCTION DOCUMENTS
AUGUST 18, 2022

SHEET NAME
CONCRETE SCHEDULES

SHEET NUMBER
S601

RETURN TO INDEX

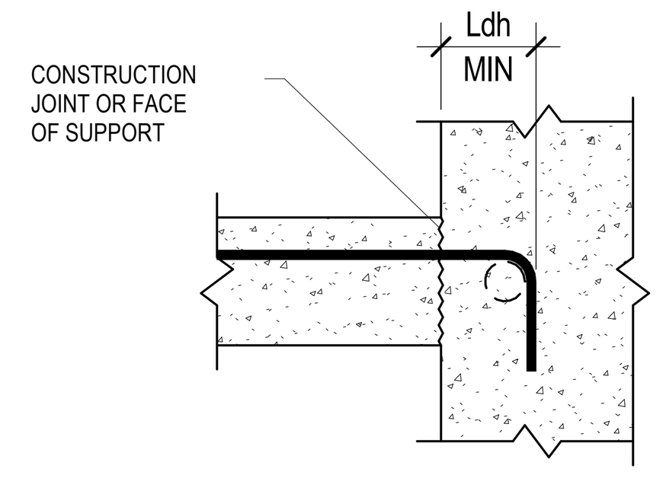


END HOOK SCHEDULE						
BAR SIZE	STANDARD FINISHED HOOK WIDTH			SEISMIC FINISHED HOOK WIDTH		
	D	90° HOOK	180° HOOK	D	90° TIE HOOK	135° TIE HOOK
#3	2.1/4"	6"	3"	1.1/2"	4"	4.1/4"
#4	3"	8"	4"	2"	4.1/2"	4.1/2"
#5	3.1/4"	10"	5"	2.1/2"	6"	5.1/2"
#6	4.1/2"	12"	6"	4.1/2"	--	8"
#7	5.1/4"	14"	7"	5.1/4"	--	9"
#8	6"	16"	8"	6"	--	10.1/2"
#9	9.1/2"	19"	11.3/4"	--	--	--
#10	10.3/4"	22"	13.1/4"	--	--	--
#11	12"	24"	14.3/4"	--	--	--
#14	18.1/4"	31"	21.3/4"	--	--	--
#18	24"	41"	28.1/2"	--	--	--

Sched – End-Hook

D1 / S602 REINFORCEMENT END HOOK SCHEDULE

NO SCALE



TENSION HOOK DEVELOPMENT LENGTH (Ldh)					
BAR SIZE	NORMAL WEIGHT CONCRETE, f'c = PSI				
	3,000	4,000	4,500	5,000	6,000
#3	6"	6"	6"	6"	6"
#4	8"	7"	7"	7"	7"
#5	10"	9"	8"	8"	7"
#6	12"	10"	10"	9"	8"
#7	14"	12"	11"	11"	10"
#8	16"	14"	13"	12"	11"
#9	18"	15"	14"	14"	13"
#10	20"	17"	16"	15"	14"
#11	22"	19"	18"	17"	16"
#14	37"	32"	31"	29"	27"
#18	50"	43"	41"	39"	35"

NOTES:
1. VALUES HERE VALID FOR ALL CASES IF:
   SIDE COVER ≥ 2.1/2"
   END COVER ≥ 2"

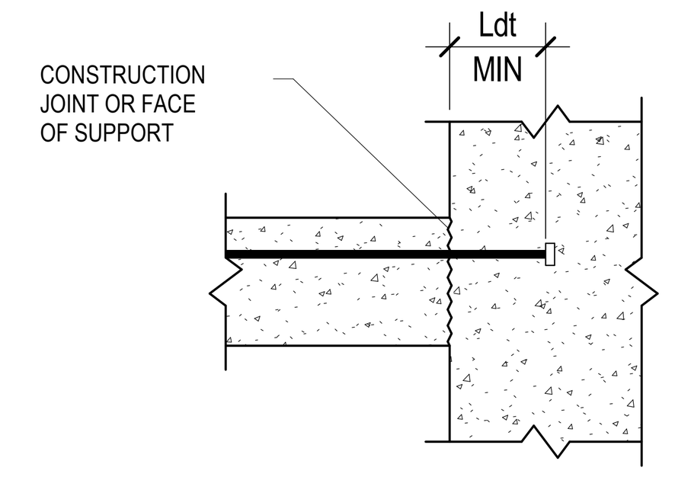
2. MULTIPLY VALUES IN SCHEDULE BY 1.33 FOR LIGHTWEIGHT CONCRETE

3. MULTIPLY VALUES IN SCHEDULE BY 1.2 FOR USE WITH EPOXY COATED REBAR

Sched – Tension-Hook

D2 / S602 TENSION HOOK DEVELOPMENT SCHEDULE

NO SCALE



TENSION HEADED BAR DEVELOPMENT LENGTH (Ldt)					
BAR SIZE	NORMAL WEIGHT CONCRETE, f'c = PSI				
	3,000	4,000	4,500	5,000	6,000
#3	7"	6"	6"	6"	6"
#4	9"	8"	8"	7"	7"
#5	11"	10"	9"	9"	8"
#6	14"	12"	11"	11"	10"
#7	16"	14"	13"	12"	11"
#8	18"	16"	15"	14"	13"
#9	20"	18"	17"	16"	14"
#10	23"	20"	19"	18"	16"
#11	25"	22"	21"	20"	18"

NOTES:
1. VALUES HERE VALID FOR ALL CASES IF:
   A. CLEAR COVER OF BAR ≥ 2*db. WHERE db IS BAR DIAMETER IN INCHES
   B. CLEAR SPACING BETWEEN BARS ≥ 4*db
   C. NET BEARING AREA OF HEAD Abrg ≥ 4*Ab, WHERE Ab IS AREA OF BAR

2. MULTIPLY VALUES IN SCHEDULE BY 1.2 FOR USE WITH EPOXY COATED REBAR.

3. FOR GRADE 60 REINFORCING ONLY.

Sched – Tension-Headed

D3 / S602 TENSION HEADED BAR DEVELOPMENT SCHEDULE

NO SCALE

CONCRETE REINFORCING BAR DEVELOPMENT AND LAP SPLICE LENGTH SCHEDULE

Sched – Reinf-Splice

BAR SIZE	f'c = 3000 PSI				f'c = 4000 PSI				f'c = 4500 PSI				f'c = 5000 PSI				f'c = 6000 PSI				f'c = ALL	
	Ld	Lt	Lsb	Lsbt	Ld	Lt	Lsb	Lsbt	Ld	Lt	Lsb	Lsbt	Ld	Lt	Lsb	Lsbt	Ld	Lt	Lsb	Lsbt	Ldc	Lsc
#3	17"	22"	22"	28"	15"	19"	19"	25"	14"	18"	18"	23"	13"	17"	17"	22"	12"	16"	16"	20"	8"	12"
#4	22"	29"	29"	38"	19"	25"	25"	33"	18"	24"	24"	31"	17"	23"	23"	29"	16"	21"	21"	27"	10"	15"
#5	28"	36"	36"	47"	24"	31"	31"	41"	23"	30"	30"	38"	22"	28"	28"	36"	20"	26"	26"	33"	12"	19"
#6	33"	43"	43"	56"	29"	37"	37"	49"	27"	35"	35"	46"	26"	34"	34"	44"	24"	31"	31"	40"	15"	23"
#7	48"	63"	63"	81"	42"	54"	54"	71"	40"	51"	51"	67"	38"	49"	49"	63"	34"	45"	45"	58"	17"	27"
#8	55"	72"	72"	93"	48"	62"	62"	81"	45"	59"	59"	76"	43"	56"	56"	72"	39"	51"	51"	66"	19"	30"
#9	62"	81"	81"	105"	54"	70"	70"	91"	51"	66"	66"	86"	48"	63"	63"	81"	44"	57"	57"	74"	22"	34"
#10	70"	91"	91"	118"	61"	79"	79"	102"	57"	74"	74"	96"	54"	71"	71"	92"	50"	64"	64"	84"	24"	39"
#11	78"	101"	101"	131"	67"	87"	87"	114"	64"	82"	82"	107"	60"	78"	78"	102"	55"	71"	71"	93"	27"	43"
#14	93"	121"	NA	NA	81"	105"	NA	NA	76"	99"	NA	NA	72"	94"	NA	NA	66"	86"	NA	NA	33"	NA
#18	124"	161"	NA	NA	108"	140"	NA	NA	101"	132"	NA	NA	96"	125"	NA	NA	88"	114"	NA	NA	43"	NA

NOTES:
1. DEFINITIONS:
   Ld: TENSION DEVELOPMENT LENGTH FOR REINFORCEMENT SATISFYING THE FOLLOWING CONDITIONS:
      SLABS AND WALLS: CLEAR SPACING > 2db AND CONCRETE CLEAR COVER > db
      BEAMS AND COLUMNS: CLEAR COVER SPACING > db AND CONCRETE CLEAR COVER > db
   Lt: DEVELOPMENT LENGTH FOR TOP BARS IN TENSION
   Lsb: TENSION LAP SPLICE LENGTH FOR OTHER THAN TOP BARS (CLASS B)
   Lsbt: TENSION LAP SPLICE LENGTH OF TOP BARS.
   Ldc: DEVELOPMENT LENGTH FOR BARS IN COMPRESSION
   Lsc: TIED COLUMN LAP SPLICE IN COMPRESSION
   db: NOMINAL BAR DIAMETER (INCHES)
   TOP BARS: HORIZONTAL BEAM REINFORCEMENT WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW

2. MULTIPLY VALUES IN SCHEDULE BY 1.5 IF CLEAR SPACING OR CONCRETE COVER DO NOT MEET REQUIREMENTS FOR Ld IN NOTE 1.

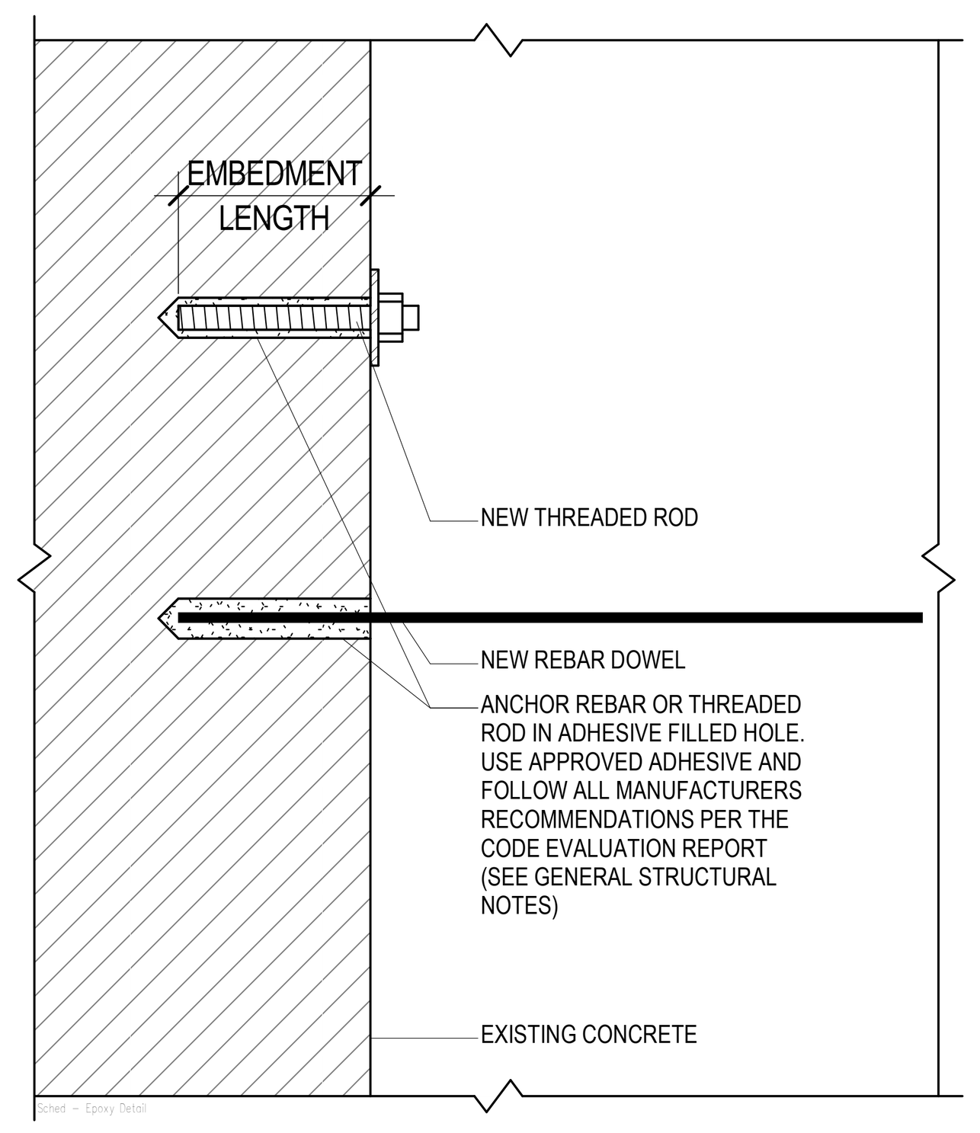
3. MULTIPLY VALUES IN SCHEDULE BY 1.3 FOR USE IN LIGHTWEIGHT AGGREGATE CONCRETE.

4. FOR EPOXY COATED BAR: MULTIPLY VALUES IN SCHEDULE BY 1.5 FOR BARS WITH CLEAR COVER < 3db OR CLEAR SPACING < 6db. OTHERWISE MULTIPLY VALUES BY 1.2.

5. a. FOR BUNDLED BARS OF THREE OR LESS MULTIPLY LENGTHS BY 1.2.
   b. FOR BUNDLED BARS OF FOUR OR MORE MULTIPLY LENGTHS BY 1.33.
   c. INDIVIDUAL BAR SPLICES WITHIN A BUNDLE SHALL NOT OVERLAP. ENTIRE BUNDLES SHALL NOT BE LAP SPLICED.

6. SCHEDULE LENGTHS ARE FOR fy=60ksi REINFORCING, MULTIPLY LENGTHS BY 1.25 FOR fy=75ksi REINFORCING.

7. LAP SPLICES ARE NOT PERMITTED FOR #14 & #18 BARS. USE BAR COUPLERS PER G.S.N.

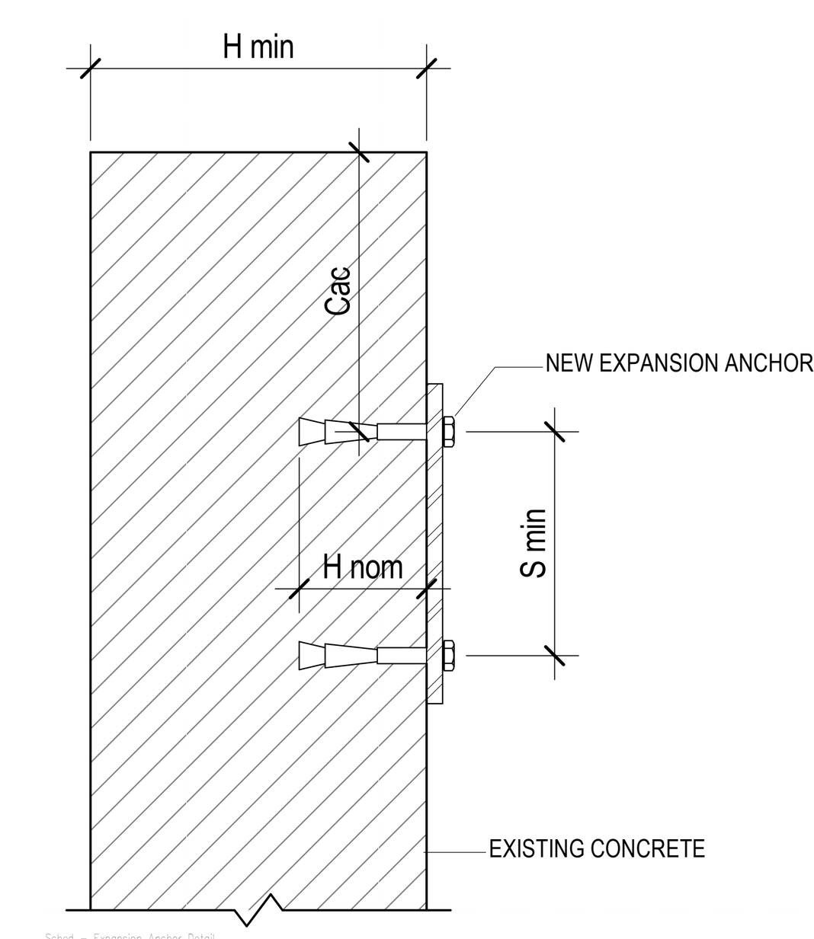


ADHESIVE ANCHORS IN CONCRETE SCHEDULE			
REINFORCING BAR		THREADED ROD	
DOWEL SIZE	EMBEDMENT LENGTH (SEE NOTE #2)	SIZE	EMBEDMENT LENGTH (SEE NOTE #2)
#3	4"	3/8"Ø	4 1/2"
#4	6"	1/2"Ø	6"
#5	9"	5/8"Ø	7 1/2"
#6	10"	3/4"Ø	9"
#7	12 1/2"	7/8"Ø	10 1/2"
#8	13"	1"Ø	12"
#9	14"	1 1/4"Ø	15"
#10	18"		
#11	19"		

NOTES:
1. THIS SCHEDULE SHALL BE USED ONLY WHERE SPECIFICALLY REFERENCED ON THE DRAWINGS AND AT OTHER LOCATIONS WITH APPROVAL OF THE STRUCTURAL ENGINEER.
2. EMBEDMENT LENGTHS SPECIFIED ON PLANS OR DETAILS TAKE PRECEDENCE OVER EMBEDMENT LENGTHS IN THIS SCHEDULE.
3. WHERE THE THICKNESS OF THE EXISTING CONCRETE MEMBER IS NOT SUFFICIENT TO ACHIEVE SCHEDULED EMBEDMENT AND SPECIFIED CLEAR COVER FOR THE ANCHOR, CONTACT THE STRUCTURAL ENGINEER.
4. SEE GENERAL STRUCTURAL NOTES FOR LIST OF APPROVED ADHESIVES AND OTHER REQUIREMENTS FOR ADHESIVE ANCHORING.

B2 / S602 ADHESIVE ANCHORS IN CONCRETE SCHEDULE

NO SCALE

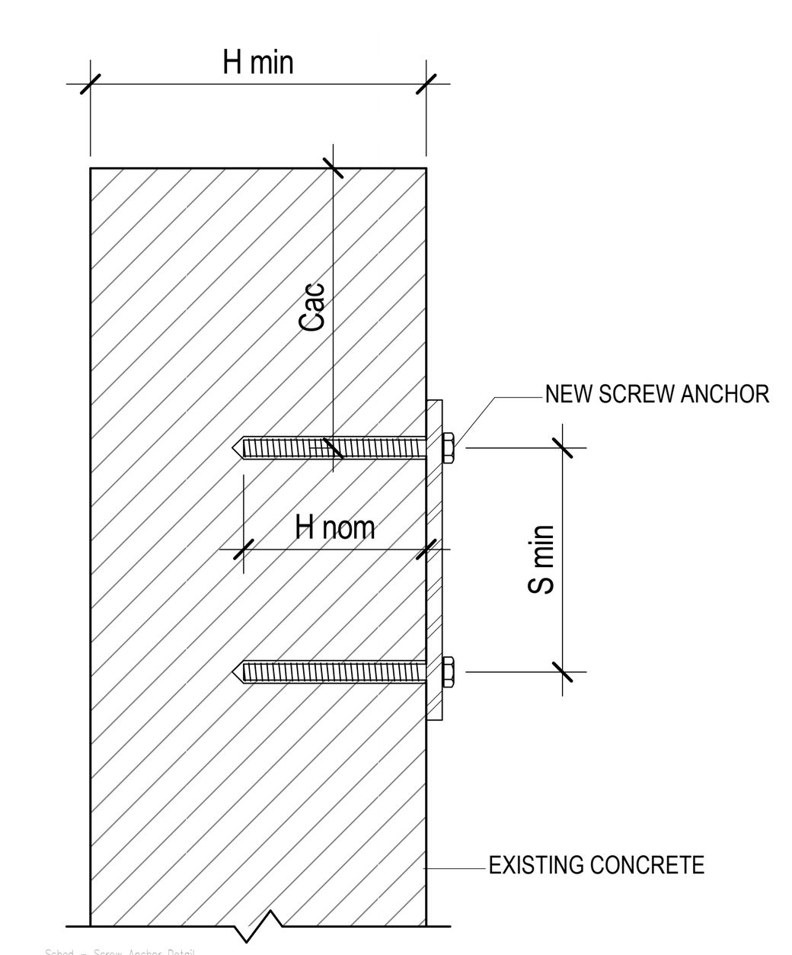


EXPANSION ANCHORS IN CONCRETE SCHEDULE				
ANCHOR SIZE	MINIMUM EDGE DISTANCE (Cac)	EMBEDMENT LENGTH (H nom)	MINIMUM CONCRETE THICKNESS (H min)	MINIMUM ANCHOR SPACING (S min)
3/8"Ø	6.1/2"	2.7/8"	4.1/2"	3.3/4"
1/2"Ø	10"	3.7/8"	6"	5"
5/8"Ø	10"	5.1/8"	8"	6"
3/4"Ø	16"	5.3/4"	10"	7"

NOTES:
1. THIS SCHEDULE SHALL BE USED ONLY WHERE SPECIFICALLY REFERENCED ON THE DRAWINGS. ANCHORS AT OTHER LOCATIONS MUST BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
2. EDGE DISTANCE, Cac, AND EMBEDMENT LENGTHS, H nom, AND ANCHOR SPACING SPECIFIED ON PLANS OR DETAILS TAKE PRECEDENCE OVER VALUES IN THIS SCHEDULE.
3. ANCHORS LOCATED WHERE THE THICKNESS OF THE EXISTING CONCRETE MEMBER DOES NOT MEET THE REQUIRED MINIMUM CONCRETE THICKNESS MUST BE APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
4. SEE GENERAL STRUCTURAL NOTES FOR LIST OF APPROVED ANCHORS AND OTHER REQUIREMENTS FOR USING EXPANSION ANCHORS.

B4 / S602 EXPANSION ANCHORS IN CONCRETE SCHEDULE

NO SCALE



SCREW ANCHORS IN CONCRETE SCHEDULE				
ANCHOR SIZE	MINIMUM EDGE DISTANCE (Cac)	EMBEDMENT LENGTH (H nom)	MINIMUM CONCRETE THICKNESS (H min)	MINIMUM ANCHOR SPACING (S min)
3/8"Ø	3.3/4"	3.1/4"	5"	3"
1/2"Ø	4.1/2"	4"	6.1/4"	3.1/2"
5/8"Ø	6.3/8"	5.1/2	8.1/2"	3.3/4"
3/4"Ø	7.5/16"	6.1/4"	10"	4.1/2"

NOTES:
1. THIS SCHEDULE SHALL BE USED ONLY WHERE SPECIFICALLY REFERENCED ON THE DRAWINGS AND AT OTHER LOCATIONS WITH APPROVAL OF THE STRUCTURAL ENGINEER.
2. EDGE DISTANCE, Cac, AND EMBEDMENT LENGTHS, H nom, AND ANCHOR SPACING SPECIFIED ON PLANS OR DETAILS TAKE PRECEDENCE OVER VALUES IN THIS SCHEDULE.
3. ANCHORS LOCATED WHERE THE THICKNESS OF THE EXISTING CONCRETE MEMBER DOES NOT MEET THE REQUIRED MINIMUM CONCRETE THICKNESS MUST BE APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION..
4. SPECIAL INSPECTION IS REQUIRED DURING INSTALLATION OF ALL SCREW ANCHORS PER THE CODE EVALUATION REPORT FOR THE ANCHOR AND THE QUALITY ASSURANCE SECTION OF THE GENERAL STRUCTURAL NOTES.
5. SEE GENERAL STRUCTURAL NOTES FOR LIST OF APPROVED ANCHORS AND OTHER REQUIREMENTS FOR USING SCREW ANCHORS.
6. SCREW ANCHORS SHALL ONLY BE USED IN INTERIOR DRY LOCATIONS

A4 / S602 SCREW ANCHORS IN CONCRETE SCHEDULE

NO SCALE

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SEAL

PROFESSIONAL STRUCTURAL ENGINEER
No. 4869789-2203
JUSTIN D. NADAULD
STATE OF UTAH
08/18/2022

MHTN PROJECT NO. 2020520

Original drawing is 30 x 42. Do not scale contents of this drawing.

REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

NO.	DATE	DESCRIPTION

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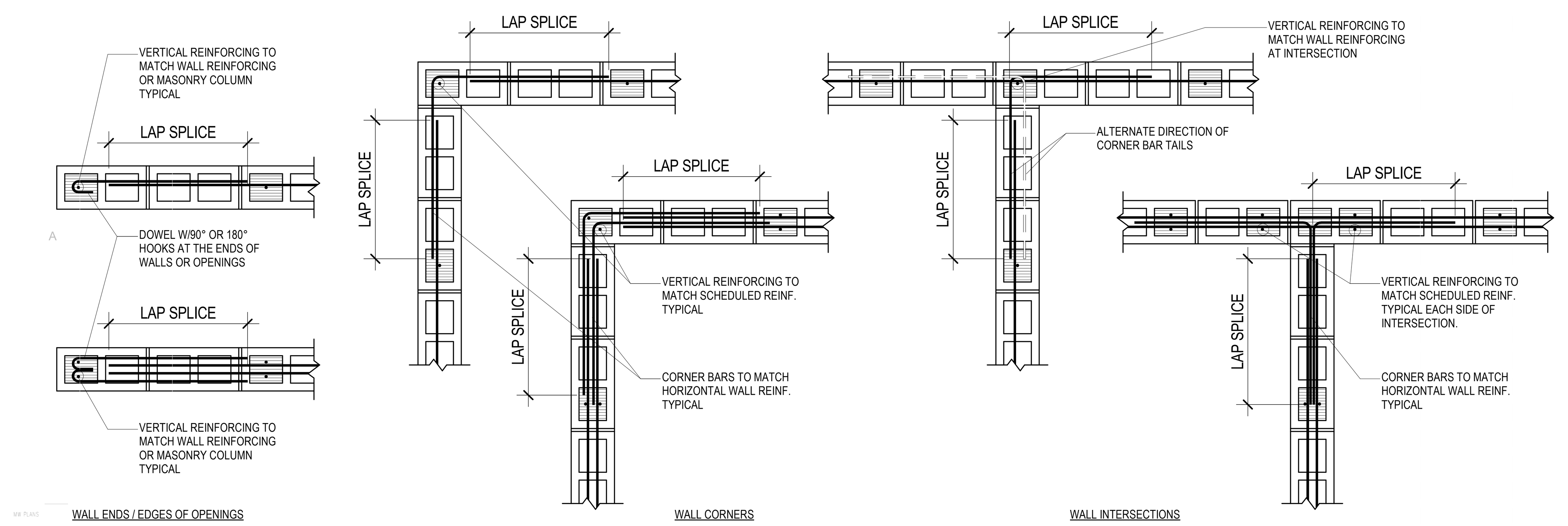
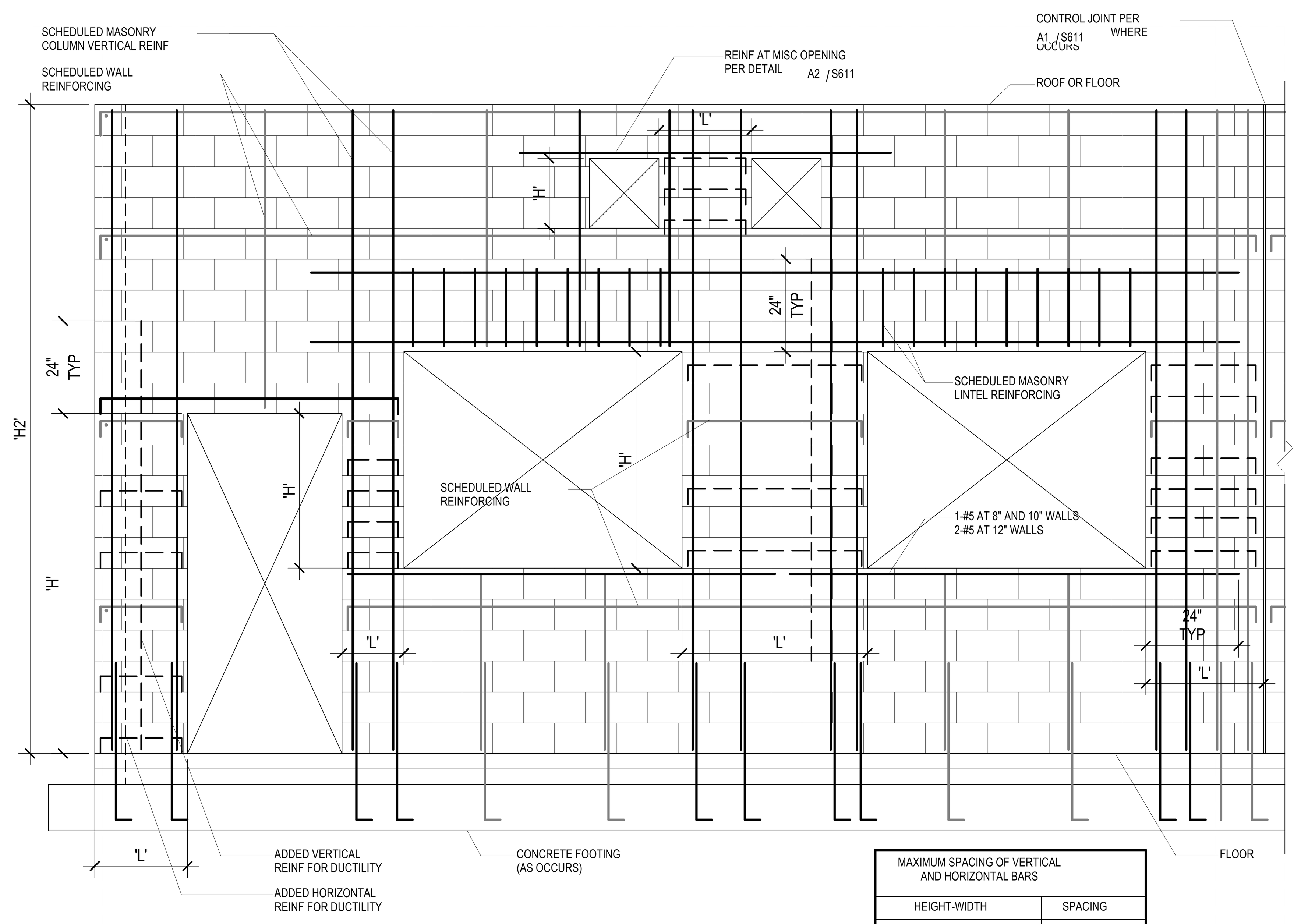


D1 / S611 — TYPICAL MASONRY WALL END, CORNER AND INTERSECTION DETAILS

NO SCALE



NOTES:
1. ADDED BAR SIZE SHALL BE 1-#4 MINIMUM.
2. ALL ADDED BARS SHALL BE EMBEDDED IN GROUT.
3. ALL ADDED HORIZONTAL REINFORCING SHALL BE TERMINATED WITH A 90° OR 180° STANDARD HOOK AROUND THE VERTICAL REINFORCING.
4. FOR WALLS WITH 'H2' AND 'L'≥12'-0" OR LARGER ADDITIONAL REINFORCING FOR DUCTILITY IS NOT REQUIRED.

WALL REINFORCING LEGEND
- SCHEDULED WALL REINF
- SCHEDULED OPENING REINF
- ADDED REINF FOR DUCTILITY

MAXIMUM SPACING OF VERTICAL AND HORIZONTAL BARS

HEIGHT-WIDTH	SPACING
(H or L)<4'-0"	8" O.C.
4'-0"≤(H or L)<6'-0"	16" O.C.
6'-0"≤(H or L)<8'-0"	24" O.C.
8'-0"≤(H or L)<10'-0"	32" O.C.
10'-0"≤(H or L)<12'-0"	40" O.C.
12'-0"≤(H or L)	48" O.C.

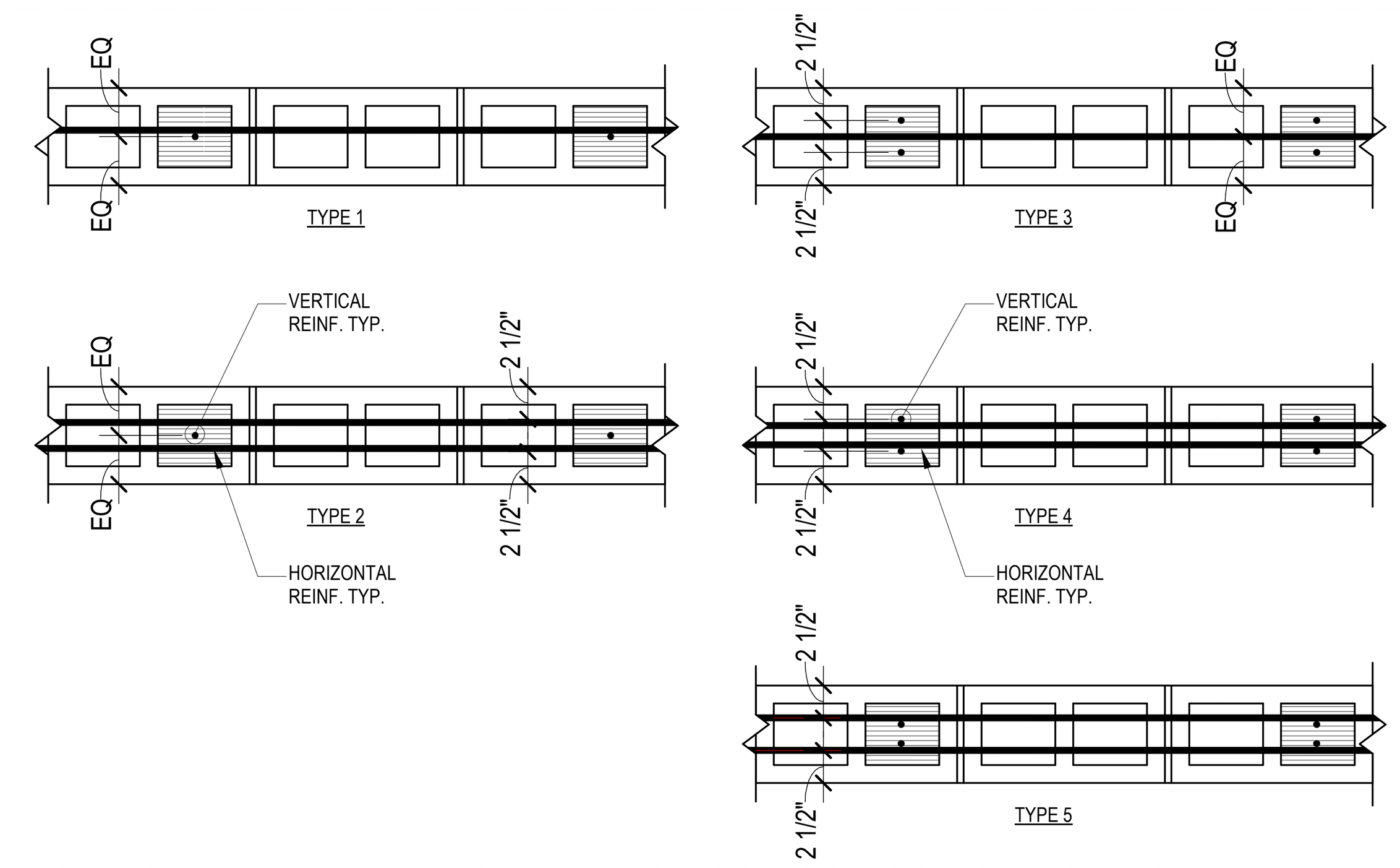
B1 / S611 — TYPICAL MASONRY WALL OPENINGS WITH ADDITIONAL DUCTILITY REINFORCMENT FOR MASONRY SHEAR WALLS

NO SCALE

MASONRY WALL SCHEDULE

MARK	THICK	MATERIAL	REINFORCING VERTICAL	REINFORCING HORIZONTAL	TYPE	REMARKS
MW-1	8"	CMU	#5 @ 16" O.C.	#5 @ 16" O.C.	TYPE 1	SOLID GROUT
MW-2	8"	CMU	#5 @ 32" O.C.	#5 @ 48" O.C.	TYPE 1	
MW-3	8"	CMU	#5 @ 32" O.C.	#5 @ 32" O.C.	TYPE 1	

NOTES
1. SEE PLANS, DETAILS AND GENERAL STRUCTURAL NOTES FOR ADDITIONAL REINFORCING REQUIREMENTS.
2. GROUT SOLID ALL CELLS BELOW GRADE, CELLS CONTAINING EMBEDS (HSA'S, DBA'S, ANCHOR BOLTS, ETC.), AND CELLS CONTAINING REINFORCING. CONSOLIDATE GROUT AS PER THE GENERAL STRUCTURAL NOTES.
3. HORIZONTAL WALL REINFORCING SHALL CONTINUE THROUGH MASONRY LINTELS. WHERE BOTH HORIZONTAL WALL REINFORCING AND LINTEL REINFORCING OCCUR IN THE SAME COURSE, THE LARGER BARS ARE TO REPLACE THE SMALLER BARS.



C3 / S611 — TYPICAL MASONRY WALL TYPES - PLAN VIEW

NO SCALE

MASONRY COLUMN SCHEDULE

MARK	DIMENSIONS WIDTH	DIMENSIONS DEPTH	REINFORCING VERTICAL	REINFORCING TIES	TYPE	REMARKS
MC-1	8"	8"	2-#4	--	TYPE 2	
MC-2	8"	1' - 4"	4-#4	--	TYPE 2	
MC-3	8"	2' - 0"	6-#4	--	TYPE 2	

NOTES
1. HORIZONTAL WALL REINFORCING BARS SHALL BE CONTINUOUS THROUGH MASONRY COLUMNS. AT WALL ENDS OR OPENINGS TERMINATE HORIZONTAL WALL REINFORCING WITH A 90° OR 180° HOOK.
2. FOR TYPE 2 & 2A COLUMNS, HORIZONTAL WALL REINFORCING SHALL BE LOCATED TO THE INSIDE OF VERTICAL COLUMN BARS..
3. UNLESS NOTED OTHERWISE, VERTICAL COLUMN REINFORCING AND TIES SHALL EXTEND THE FULL STORY HEIGHT OF THE WALL.
4. MASONRY COLUMN VERTICAL BARS OR DOWELS IN CONCRETE FOUNDATION WALLS SHALL HAVE TIES TO MATCH MASONRY COLUMN TIES.
5. VERTICAL REINFORCING IN TYPE 1 & 2 COLUMNS SHALL BE DISTRIBUTED EQUALLY IN EACH CELL.
6. PLACE VERTICAL COLUMN BARS IN EACH END CELL FOR TYPE 1A & 2A COLUMNS. REMAINING REINFORCING SHALL BE SPACED EQUALLY THROUGHOUT THE COLUMN WITH ONE BAR PER CELL FOR TYPE 1A AND TWO BARS PER CELL FOR TYPE 2A.
7. ALL CELLS IN COLUMNS SHALL BE GROUTED SOLID.

MASONRY REINFORCING BAR LAP SPLICE SCHEDULE

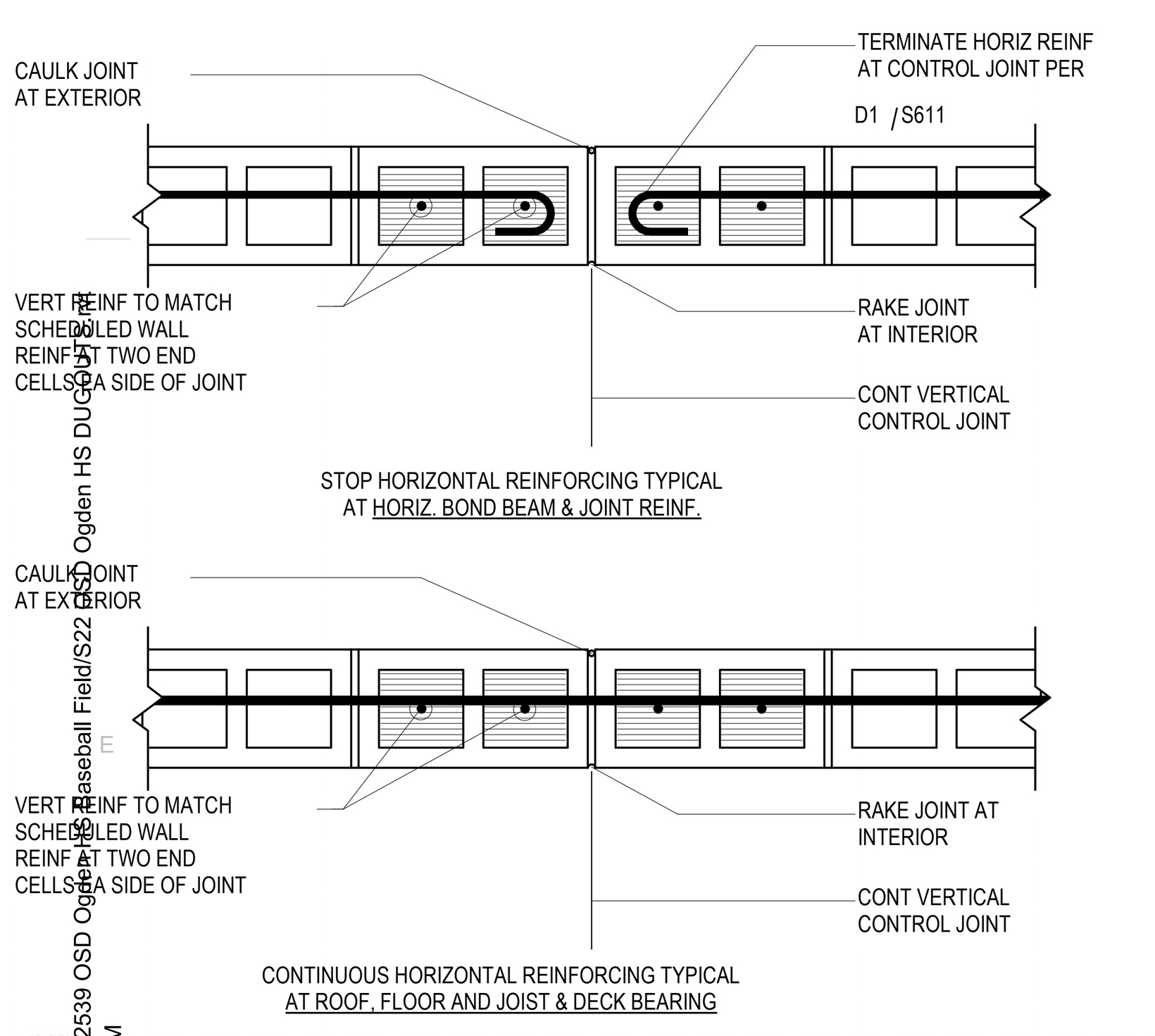
BAR SIZE	f'm = 2000 psi							f'm = 2500 psi		
	6" CMU	8" CMU		10" CMU		12" CMU		6" BRICK	8" BRICK	
	CLASS	CLASS		CLASS		CLASS		CLASS	CLASS	
	A	A	B	A	B	A	B	A	A	B
#3	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
#4	18"	13"	21"	12"	20"	12"	20"	16"	12"	20"
#5	28"	20"	35"	16"	32"	13"	32"	25"	18"	33"
#6	**	38"	54"	29"	54"	24"	54"	**	34"	54"
#7	-	52"	**	40"	**	33"	63"	-	47"	-
#8	-	**	-	61"	**	50"	**	-	**	-
#9	-	-	-	79"	-	64"	-	-	-	-

NOTES:
1. CLASS A SPLICES MAY BE USED WHEN ONLY ONE BAR IS CONTINUOUS IN THE MASONRY CELL OR COURSE.
2. CLASS B SPLICES SHALL BE USED WHEN TWO BARS ARE CONTINUOUS IN THE MASONRY CELL OR COURSE.
3. ** INDICATES THAT A LAP SPLICE IS NOT ALLOWED AND MECHANICAL BAR COUPLERS ARE REQUIRED FOR THE BAR SPLICES. SPLICES SHALL BE OFFSET 2'-0" TO AVOID CONGESTION.
4. WHERE VERTICAL BARS HAVE A REQUIRED LAP SPLICE GREATER THAN THE HEIGHT OF THE GROUT POUR, THE BAR SPLICE SHALL BE MADE WITH A MECHANICAL BAR COUPLER. WHERE THE HEIGHT OF THE GROUT POUR EXCEEDS 60 INCHES, HIGH LIFT GROUTING PROCEDURES SHALL BE FOLLOWED.
5. WHERE MECHANICAL BAR COUPLERS ARE USED, THE CONNECTOR SHALL DEVELOP 125% OF THE SPECIFIED YIELD STRENGTH OF THE BAR IN TENSION AND COMPRESSION.

MASONRY LINTEL SCHEDULE

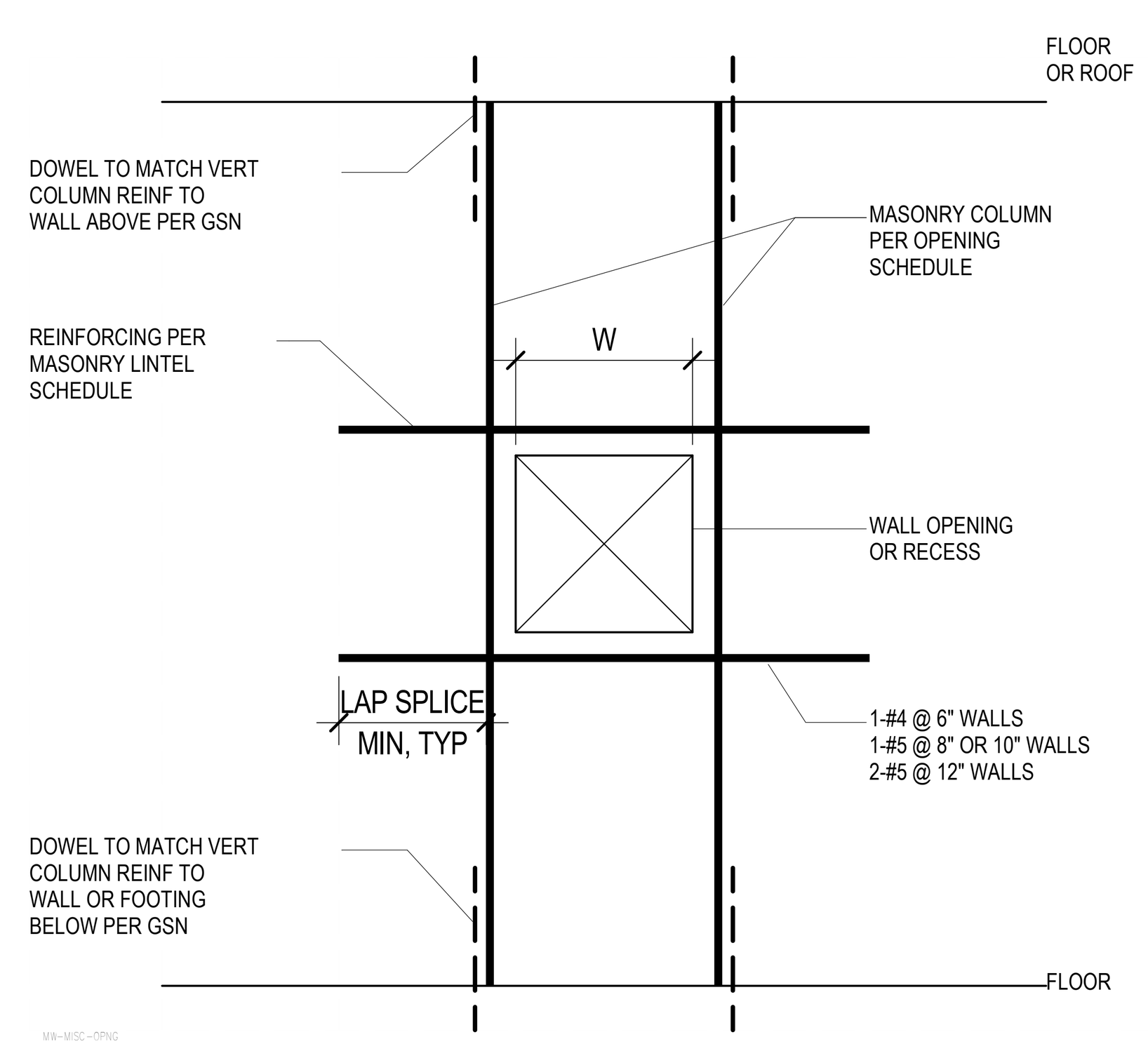
MARK	DIMENSIONS DEPTH	DIMENSIONS WIDTH	REINFORCING HORIZONTAL	REINFORCING STIRRUPS	MAXIMUM SPAN	REMARKS
ML-1	8"	6",8",10" OR 12"	1- #4 CONT.	--	3'-4"	
ML-2	16"	6",8",10" OR 12"	1- #6 CONT. TOP & BOTTOM	--	5'-4"	
ML-3	24"	6",8",10" OR 12"	1- #7 CONT. TOP & BOTTOM	#3 @ 8" O.C.	8'-0"	
ML-4	32"	6",8",10" OR 12"	1- #7 CONT. TOP & BOTTOM	#3 @ 8" O.C.	10'-0"	

NOTES:
1. MASONRY LINTELS ML-1 THROUGH ML-4 SHALL BE USED OVER OPENINGS IN MASONRY WALLS WHEN A SPECIFIC MASONRY LINTEL IS NOT OTHERWISE SPECIFIED. THE MASONRY LINTEL TO BE USED SHALL BE DETERMINED BY THE MAXIMUM SPAN AS SPECIFIED IN THIS SCHEDULE. WHEN A SPECIFIC MASONRY LINTEL IS CALLED OUT ON THE PLAN, THE MAXIMUM SPAN AS NOTED IN THIS SCHEDULE SHALL NOT APPLY
2. MASONRY LINTELS ML-1 THROUGH ML-4 SHALL NOT BE LOCATED BELOW ANY FLOOR, OR ROOF BEAM, OR GIRDER, OR ANY OTHER CONCENTRATED LOAD UNLESS SHOWN SPECIFICALLY ON THE PLAN SHEET. JOISTS SHALL NOT BEAR ON ANY LINTEL LESS THAN 16" DEEP.
3. FOR MASONRY LINTELS NOT SHOWN ON THE DRAWINGS THAT CARRY ANY FLOOR, OR ROOF BEAM, OR GIRDER, OR ANY OTHER CONCENTRATED LOAD, OR THAT SPAN GREATER THAN 10'-0" CONSULT THE STRUCTURAL ENGINEER.
4. EXTEND ALL HORIZONTAL REINFORCING 48 BAR DIAMETERS BEYOND THE EDGE OF THE OPENING. IF HORIZONTAL REINFORCING CANNOT BE EXTENDED 48 BAR DIAMETERS BEYOND THE EDGE OF THE OPENING, PROVIDE 90 DEGREE STANDARD HOOK.
5. GROUT MASONRY LINTELS MONOLITHICALLY WITH THE SUPPORT WALL OR COLUMN AT EACH END.
6. SPLICE TOP BARS AT MIDSPAN OF LINTEL ONLY.
7. SPLICE BOTTOM BARS OVER SUPPORTS ONLY.
8. FOR WALL ABOVE LINTEL, DOWEL VERTICAL REINFORCING INTO FULL DEPTH OF THE LINTEL OR 48 BAR DIAMETERS, WHICHEVER IS LESS.
9. HORIZONTAL WALL REINFORCING SHALL CONTINUE THROUGH MASONRY LINTELS. WHERE BOTH HORIZONTAL WALL REINFORCING AND LINTEL REINFORCING WOULD OCCUR IN THE SAME COURSE, THE LARGER BARS ARE TO REPLACE THE SMALLER BARS.



A1 / S611 — TYPICAL CONTROL JOINTS IN MASONRY WALLS

NO SCALE



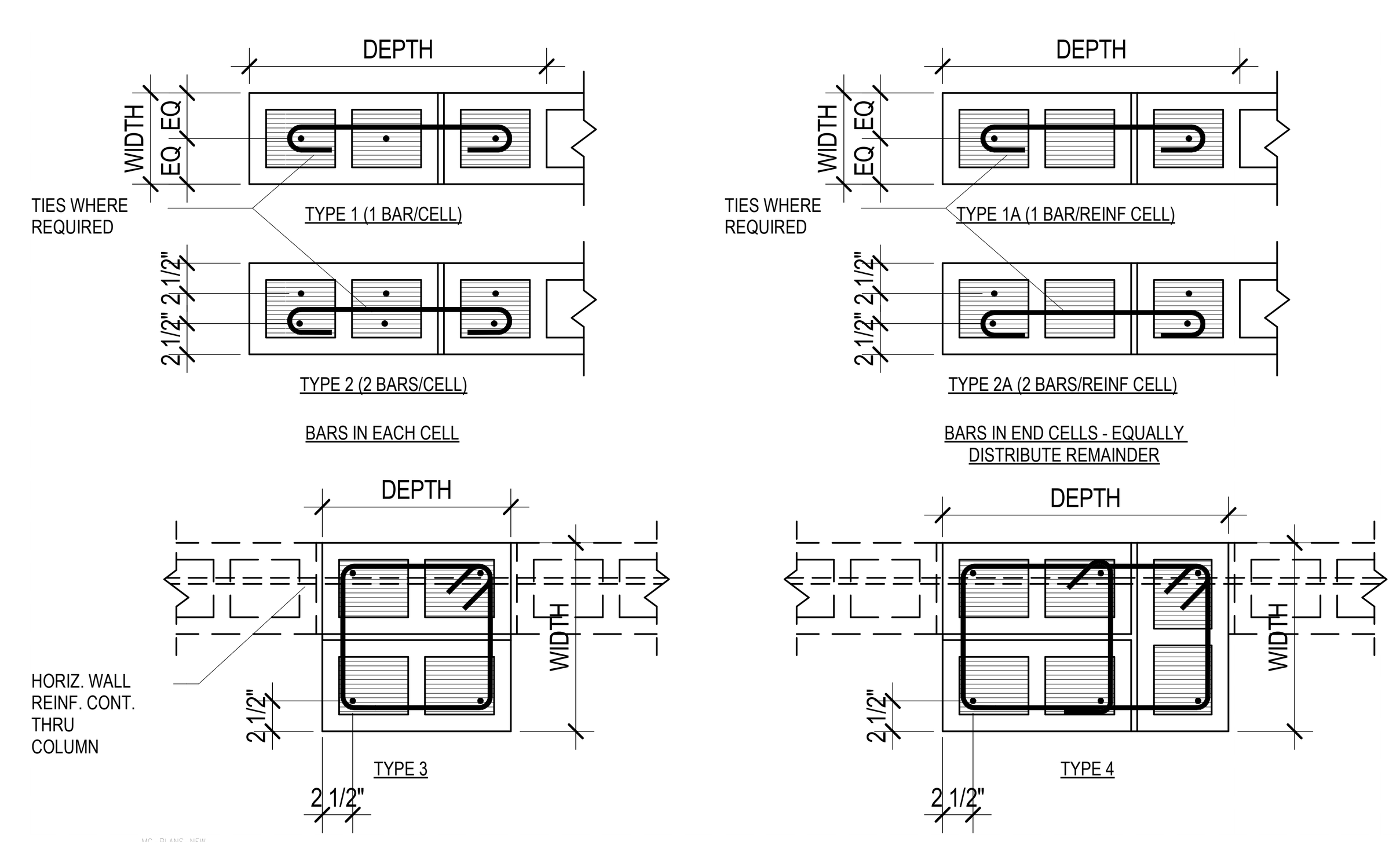
OPENING SCHEDULE

OPENING WIDTH	COLUMN SIZE
W≤3'-4"	8" LONG W/1-#5 @ 6" & 8" WALLS 8" LONG W/2-#5 @ 10" & 12" WALLS
3'-4"<W≤6'-0"	MC-2
6'-0"<W≤ 10'-0"	MC-3

NOTES:
1. COLUMNS AND LINTELS NOTED ON THE PLANS TAKE PRECEDENCE OVER COLUMNS AND LINTELS SHOWN IN THIS DETAIL.

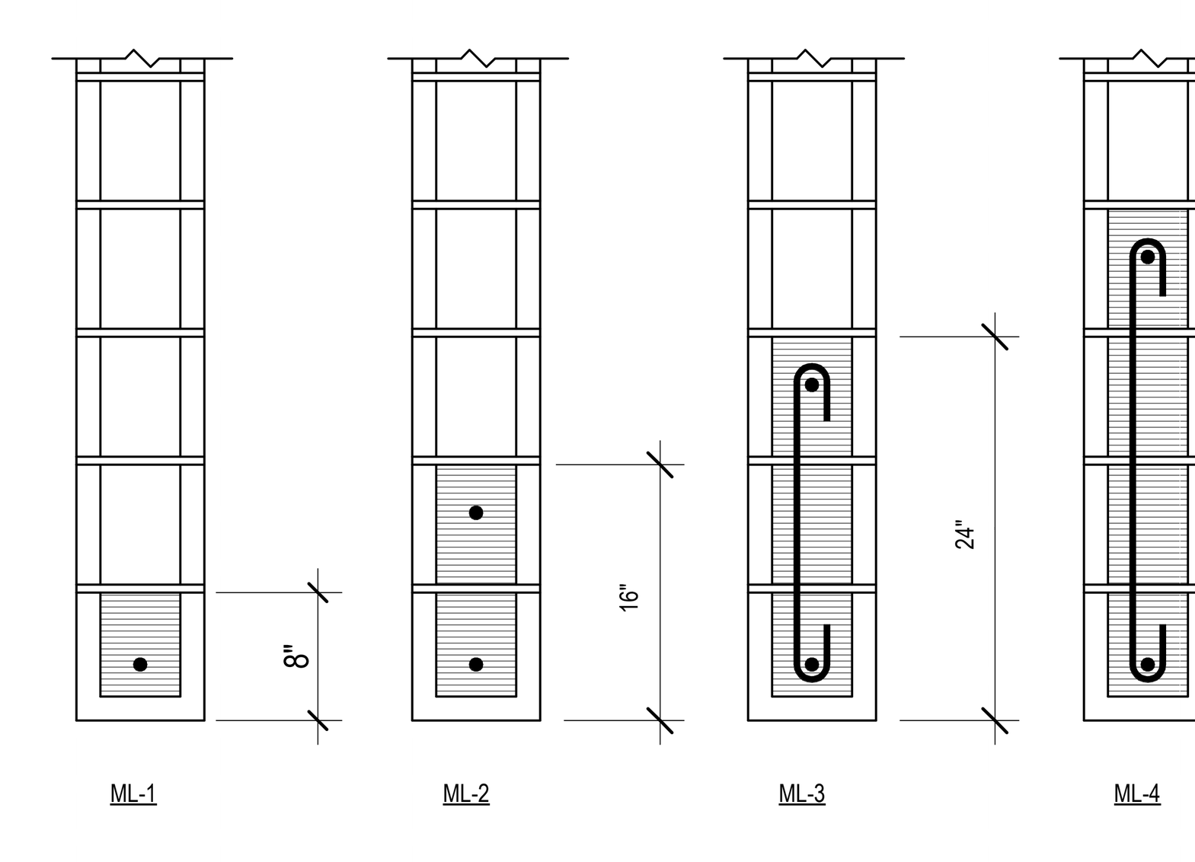
A2 / S611 — TYPICAL REINFORCING AROUND MISCELLANEOUS OR RECESSED MASONRY OPENINGS

NO SCALE



A3 / S611 — TYPICAL MASONRY COLUMN TYPES - PLAN VIEW

NO SCALE



A5 / S611 — TYPICAL MASONRY LINTEL DETAILS

NO SCALE

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SEAL

PROFESSIONAL STRUCTURAL ENGINEER No. 4859789-2203 JUSTIN D. NADAULD STATE OF UTAH
08/18/2022

MHTN PROJECT NO. 2020520

Original drawing is 30 x 42. Do not scale contents of this drawing.

REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

NO.	DATE	DESCRIPTION

ISSUE
CONSTRUCTION DOCUMENTS
AUGUST 18, 2022

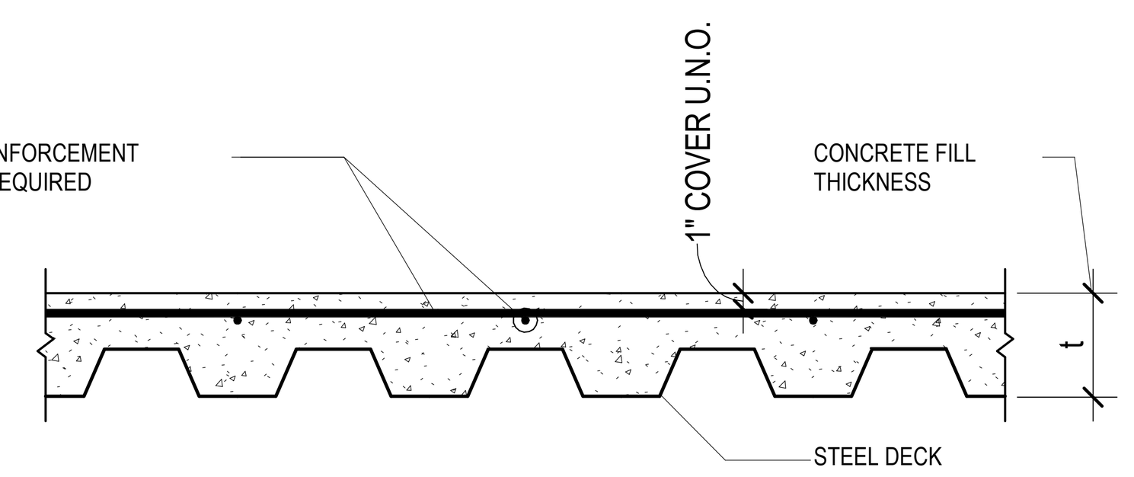
SHEET NAME
MASONRY SCHEDULES

SHEET NUMBER
S611

RETURN TO INDEX

STEEL DECK SCHEDULE										
MARK	STEEL DECK				CONCRETE FILL			STEEL DECK ATTACHMENT	MIN. ALLOWABLE SHEAR CAPACITY	NOTES
	PROFILE	MIN I (in /ft)⁴	MIN S (in³/ft)	FINISH	THICKNESS (t)	TYPE	REINFORCEMENT			
SD-1	TYPE B 1.1/2" DEEP x 20 GA	0.219	0.230	GALVANIZED (G60)	-	-	-	SDA-1	1304 PLF @ 6'-0"	-

NOTES:
1. STEEL DECK SHALL COMPLY WITH LATEST REQUIREMENTS OF THE STEEL DECK INSTITUTE (SDI).
2. SUBMIT CURRENT CODE EVALUATION REPORT (ICC OR IAPMO) WITH LOAD AND LATERAL SHEAR CAPACITIES WITH SHOP DRAWINGS.
3. FIBER REINFORCEMENT, WHEN REQUIRED IN SCHEDULE, SHALL BE MACROSYNTHETIC FIBER REINFORCEMENT PER THE CONCRETE MATERIALS SECTION OF THE GENERAL STRUCTURAL NOTES.
4: ALL DECK SHALL BE 3-SPAN CONTINUOUS MINIMUM WHERE POSSIBLE. IN AREAS WHERE 3-SPAN CONDITIONS ARE NOT POSSIBLE THE CONTRACTOR SHALL VERIFY UN-SHORED DECK IS PERMITTED BY THE DECK MANUFACTURER FOR THE SPAN CONDITION, SPAN LENGTH, AND DECK GAUGE. WHERE DECK DOES NOT MEET THE REQUIREMENTS FOR UN-SHORED DECK, THE CONTRACTOR SHALL EITHER PROVIDE HEAVIER GAUGE DECK TO ALLOW FOR UN-SHORED DECK OR PROVIDE SHORING.
5. STEEL DECK WITHOUT CONCRETE FILL SHALL NOT BE USED TO SUPPORT LOADS FROM PLUMBING, HVAC DUCTS, LIGHT FIXTURES, ARCHITECTURAL ELEMENTS OR EQUIPMENT OF ANY KIND, UNLESS SPECIFICALLY NOTED OTHERWISE. LIGHTWEIGHT SUSPENDED ACOUSTICAL CEILINGS WITH A TOTAL WEIGHT PER WIRE NOT EXCEEDING 50# MAY BE HUNG FROM THE STEEL ROOF DECK. THE HANGERS SHOULD BE STAGGERED TO DISTRIBUTE THE LOAD OVER MULTIPLE DECK FLUTES.
6. DECK SHALL HAVE 2" MINIMUM BEARING ON ALL SUPPORTING MEMBERS (MEMBERS PERPENDICULAR TO DECK) UNO. DECKS SHALL HAVE 1.1/2" MINIMUM BEARING AT PARALLEL MEMBERS.
7. DO NOT EMBED CONDUITS OR PIPES IN CONCRETE FILL OVER STEEL DECKS WITHOUT APPROVAL OF STRUCTURAL ENGINEER.
8. SEE TYPICAL DETAILS FOR REINFORCEMENT REQUIRED AT OPENINGS THROUGH STEEL DECK. OPENING REINFORCING SHALL BE INSTALLED PRIOR TO SAW CUTTING OPENINGS.
9. PROVIDE GALVANIZED STEEL DECK ABOVE & BELOW MECHANICAL ROOMS.
10.SEE PLANS AND DETAILS FOR LOCATIONS WHERE ADDITIONAL SLAB REINFORCEMENT IS REQUIRED.



CONCRETE SLAB OVER STEEL DECK PROFILE

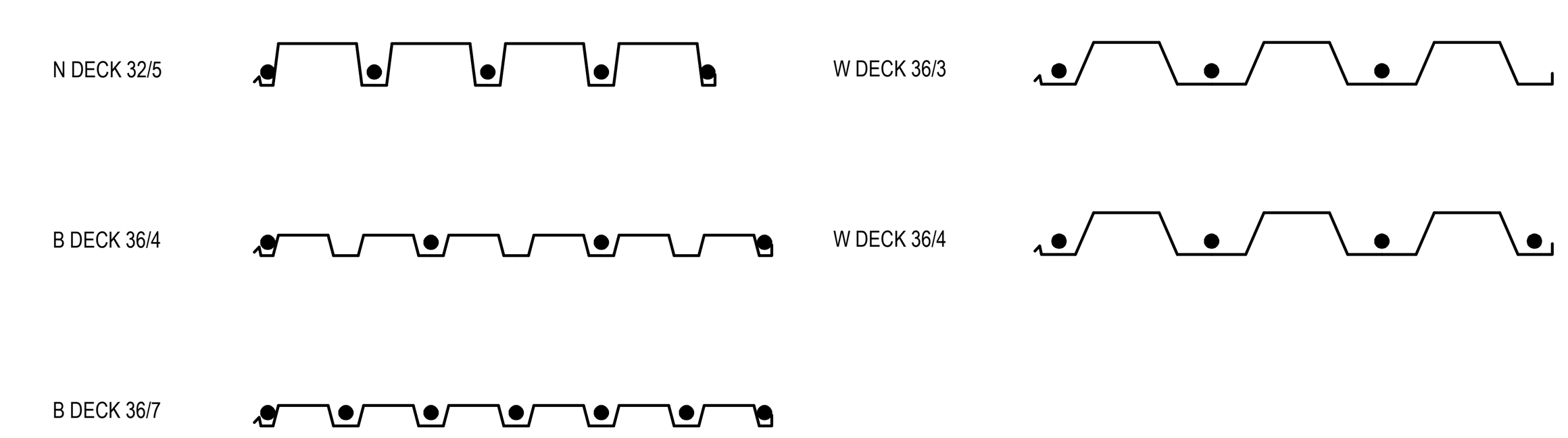
STEEL DECK ATTACHMENT SCHEDULE						
MARK	WELDED			MECHANICAL		
	SUPPORTS	PARALLEL	SIDE LAP	SUPPORTS	PARALLEL	SIDE LAP
SDA-1	PW @ 36/7	PW @ 12" O.C.	1.1/2" TSW @ 18" O.C.	PAF @ 36/7	PAF @ 12" O.C.	PSC @ 12" O.C.

NOTES:
1. PW = PUDDLE WELD - 1/2" EFFECTIVE DIAMETER ARC SPOT WELD AT INTERIOR FLUTES, 1" X 3/8" EFFECTIVE ARC SEAM WELD AT SUPPORTS ADJACENT TO SIDELAP.
2. TSW = TOP SEAM WELD - 1.1/2" LONG TOP SEAM WELDS BETWEEN ADJACENT PIECES OF DECKING. CRIMP SIDE SEAMS BEFORE WELDING INTERLOCKING SEAMS.
3. BP = BUTTON PUNCH - 3/16" BUTTON PUNCH BETWEEN ADJACENT PIECES OF DECK. CRIMP SEAMS BEFORE BUTTON PUNCHING INTERLOCKING SEAMS.
4. PAF = POWDER ACTUATED FASTENER -

HILTI X-HSN 24 AT SUPPORTS 3/16" THROUGH 3/8" THICK
HILTI X-ENP-19 L15 AT SUPPORTS 1/4" THICK AND GREATER

PNEUTEK SDK61075 AT SUPPORTS 0.113" THROUGH 0.155" THICK
PNEUTEK SDK63075 AT SUPPORTS 0.155" THROUGH 0.250" THICK
PNEUTEK K64062 AT SUPPORTS 0.187" THROUGH 0.312" THICK
PNEUTEK K66062 OR K66075 AT SUPPORTS 0.281" THICK AND GREATER

5. SDS = SELF DRILLING SCREW. WHERE SIDELAPS HAVE SCREWED CONNECTION, THE DECK PROVIDED SHALL HAVE A SCREWABLE SIDE SEAM, UNO.
6. PSC = PROPRIETARY SIDELAP CONNECTION - VERCO SIDELAP CONNECTION 2 FOR VERCO PUNCHLOK II SYSTEM, ASC DELTA GRIP FOR ASC DECKS.
7. SPACING AT SUPPORTS IS NOTED AS (DECK PANEL WIDTH)/(ATTACHMENTS PER PANEL). FOR EXAMPLE: PW @ 36/4 INDICATES A 36" WIDE DECK SHEET WITH 4 PUDDLE WELDS AT EACH SUPPORT.
8. HEADED STUD ANCHORS WELDED THROUGH DECK WITH 1" MINIMUM COVER FROM EDGE OF DECK TO STUD CENTERLINE MAY BE SUBSTITUTED ONE FOR ONE FOR PW. ALIGN AND SECURE DECK IN POSITION BEFORE INSTALLING STUDS.
9. SEE PLANS AND SFRS SHEETS FOR ADDITIONAL FASTENERS REQUIRED AT MEMBERS DENOTED AS SFRS. OMIT ATTACHMENTS WHERE DENOTED AS PROTECTED ZONES IN SFRS.
10. ALL WELDED SURFACES SHALL BE DRY BEFORE WELDING DECK OR STUDS TO SUPPORTS.
11. ALIGN AND SECURE DECK IN POSITION BEFORE WELDING OR INSTALLING FASTENERS OR STUDS.
12. ALTERNATE MEANS OF DECK ATTACHMENT ARE PERMITTED WITH APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL SUBMIT THE PROPOSED ATTACHMENT SYSTEM AND THE CODE EVALUATION REPORT DEMONSTRATING THE SYSTEM HAS THE STRENGTH TO MEET THE SPECIFIED DECK SHEAR. IF THE ALTERNATE METHOD IS APPROVED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE DECK TYPE AND PROFILE IS COMPATIBLE WITH THE FASTENING SYSTEM.



MINIMUM NAILING SCHEDULE		
	CONNECTION	NAILING
1.	JOIST TO SILL OR GIRDER, TOENAIL	3- 8d
2.	BRIDGING TO JOIST, TOENAIL EACH END	2- 8d
3.	1" x 6" SUBFLOOR TO EACH JOIST, FACE NAIL	2- 8d
4.	WIDER THAN 1" x 6" SUBFLOOR TO EACH JOIST, FACE NAIL	3- 8d
5.	2" SUBFLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL	2- 16d
6.	SOLE PLATE TO JOIST OR BLOCKING	16d @ 16" O.C.
7.	TOP PLATE TO STUD, END NAIL	2- 16d
8.	STUD TO SOLE PLATE	4-8d, TOENAIL OR 2-16d, END NAIL
9.	DOUBLE STUDS, FACE NAIL	16d @ 24" O.C.
10.	DOUBLED TOP PLATES, FACE NAIL	16d @ 16" O.C.
11.	TOP PLATES, LAPS AND INTERSECTIONS, FACE NAIL	2- 16d
12.	CONTINUOUS HEADER, TWO PIECES	16d @ 16" O.C. ALONG EACH END
13.	CEILING JOISTS TO PLATE, TOENAIL	3- 8d
14.	CONTINUOUS HEADER TO STUD, TOENAIL	4- 8d
15.	CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	3- 16d
16.	CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	3- 16d
17.	RAFTER TO PLATE, TOENAIL	3- 8d
18.	1" BRACE TO EACH STUD AND PLATE, FACE NAIL	2- 8d
19.	1" x 8" SHEATHING OR LESS TO EACH BEARING, FACE NAIL	2- 8d
20.	WIDER THAN 1" x 8" SHEATHING TO EACH BEARING, FACE NAIL	3- 8d
21.	BUILT-UP CORNER STUDS	16d @ 24" O.C.
22.	BUILT-UP GIRDER AND BEAMS:	20d @ 32" O.C. AT TOP AND BOTTOM AND STAGGERED 2- 20d AT ENDS AND AT EACH SPLICE
23.	2" PLANKS	2- 16d AT EACH BEARING

NOTES:

1. COMMOM OR BOX NAILS SHALL BE USED EXCEPT WHERE OTHERWISE STATED. SEE GENERAL STRUCTURAL NOTES.

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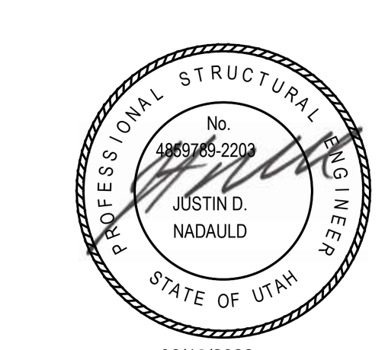

08/18/2022

MHTN PROJECT NO. 2020520

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SHEET NAME
STEEL DECK SCHEDULES

SHEET NUMBER
S621

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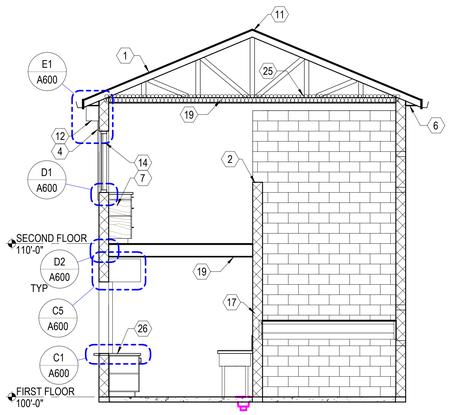
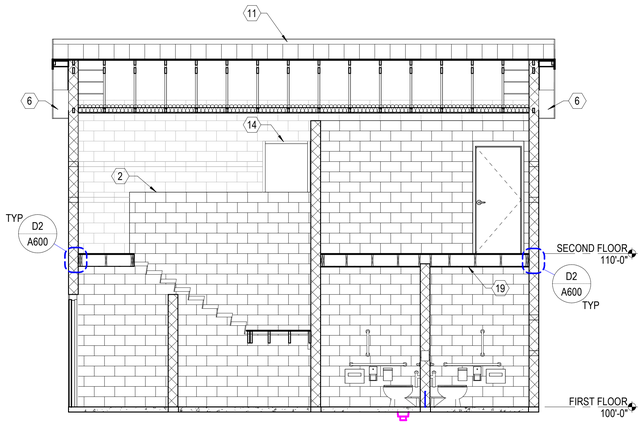


A1 SECTION

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



A2 SECTION

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

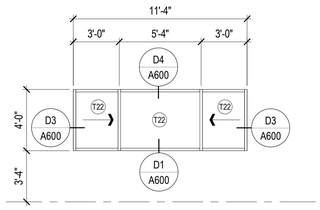
LEGEND - EXTERIOR ELEVATION

CMU - SPLIT FACE

CMU - HONED, STACK BOND

CMU - HONED

METAL WALL PANEL



WINDOW TYPE 1

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

GLAZING SCHEDULE

T22	1" LOW-E COATED, CLEAR TEMPERED INSULATING GLASS

LEGEND

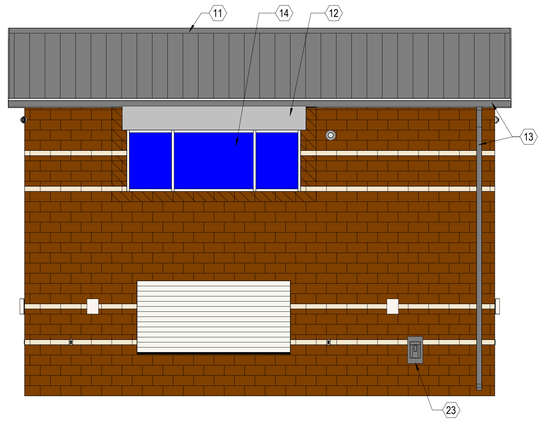
PLAN	ELEVATION	
TTD		TOILET TISSUE DISPENSER
HD		HAND DRYER
M24x36		FRAMED MIRROR
SD		SOAP DISPENSER
SNDU		SANITARY NAPKIN DISPOSAL UNIT
SCD		SEAT COVER DISPENSER
FM		FLOOR MOUNTED WATER CLOSET
SD		WALL HUNG LAVATORY
FE		MULTI-PURPOSE 10LB FIRE EXTINGUISHER

FLOOR PLAN GENERAL NOTES

1. REFERENCE PROJECT GENERAL NOTES ON SHEET G001
2. ALL INTERIOR WALL, FLOOR, CEILING SURFACES TO BE PAINTED, U.O.N.
3. PAINT CMU WALLS AT CONCESSION & TOILET ROOMS WITH WATER BASED EPOXY HIGH PERFORMANCE SYSTEM PAINT.

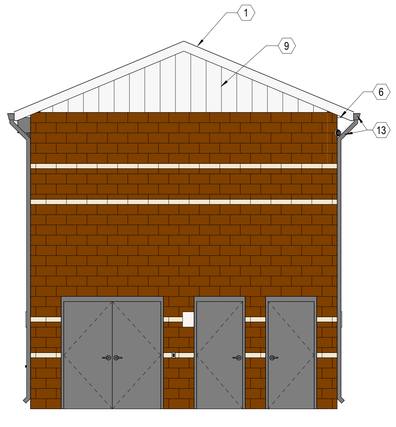
KEYNOTES

1. ROOF SYSTEM, STANDING SEAM, SEE SPEC.
2. DOUBLE BULLNOSE CMU WALL CAP
3. BRACE
4. ELECTRIC OPERATED OVERHEAD DOOR
6. METAL SOFIT COLOR TO BE SELECTED
7. 1-1/2" PLASTIC LAMINATE COUNTERTOP WITH 4" BACKSPLASH
8. STRIP SOFFIT VENT
9. FORMED METAL WALL PANEL
11. METAL ROOF PANEL CONTINUOUS RIDGE VENT
12. EXTERIOR COILING DOOR HOUSING, WEATHER SHROWD
13. GUTTER & DOWNSPOUT
14. ALUMINUM WINDOW SYSTEM - OPERABLE
15. KEYED REMOVABLE MULLION
17. INTERIOR CMU, PAINTED (TYPICAL)
18. EXTERIOR CMU, SEALED
19. GYPSUM BOARD, PAINTED
20. RUBBER TREADS AND RISERS
21. CARPET
22. ACID WASHED, SEALED CONCRETE SLAB
23. BOTTLE FILLER
24. THREE COMPARTMENT DRAINBOARD SINK
25. BATT INSULATION
26. STAINLESS STEEL COUNTERTOP



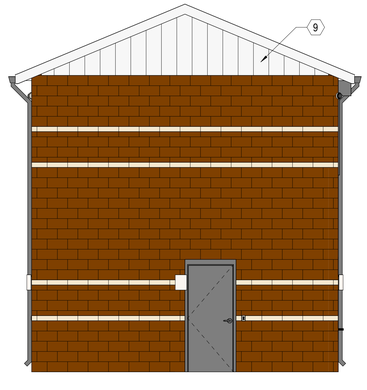
C1 WEST ELEVATION

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



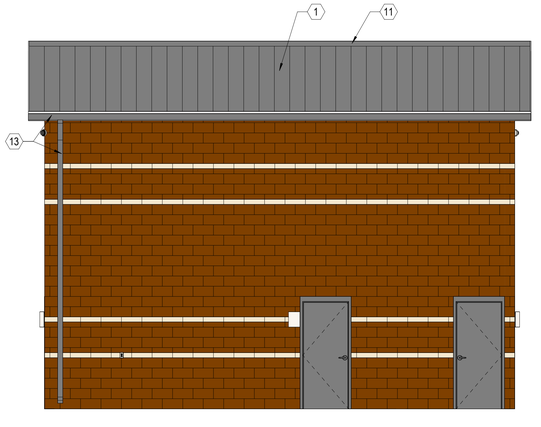
C2 SOUTH ELEVATION

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



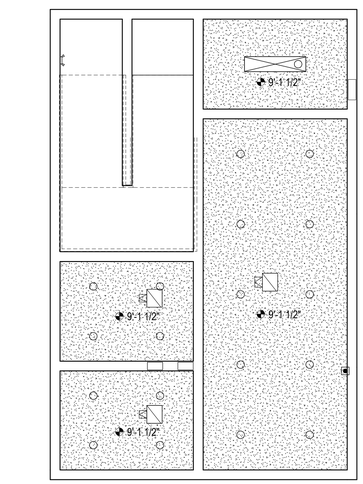
C3 NORTH ELEVATION

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



C5 EAST ELEVATION

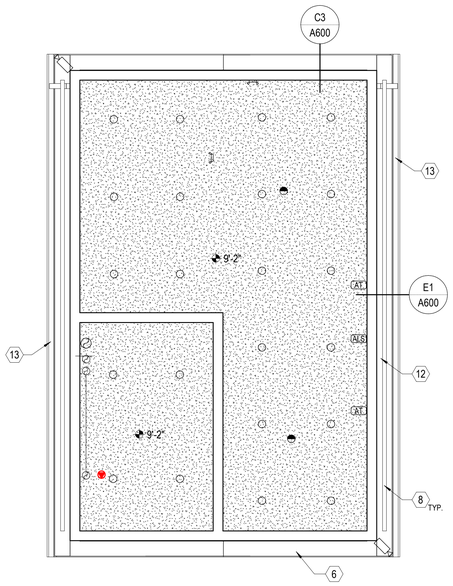
SCALE: 1/4" = 1'-0"



FIRST FLOOR RCP

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

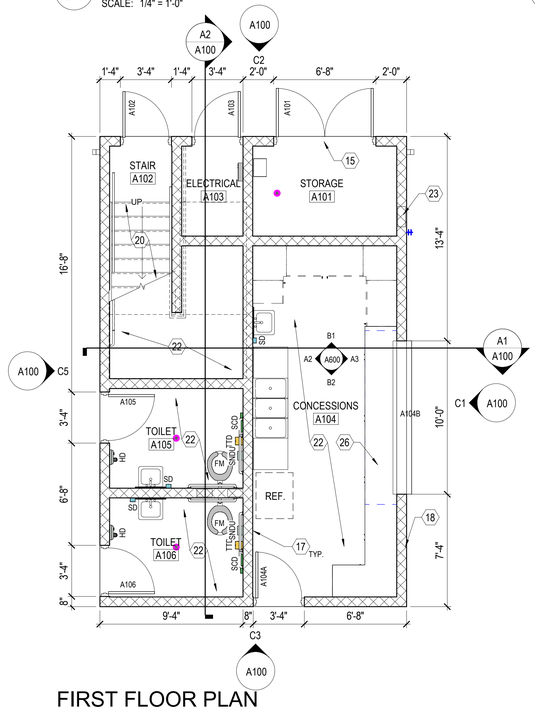
0 2' - 0" 4' - 0" 8' - 0"



SECOND FLOOR RCP

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

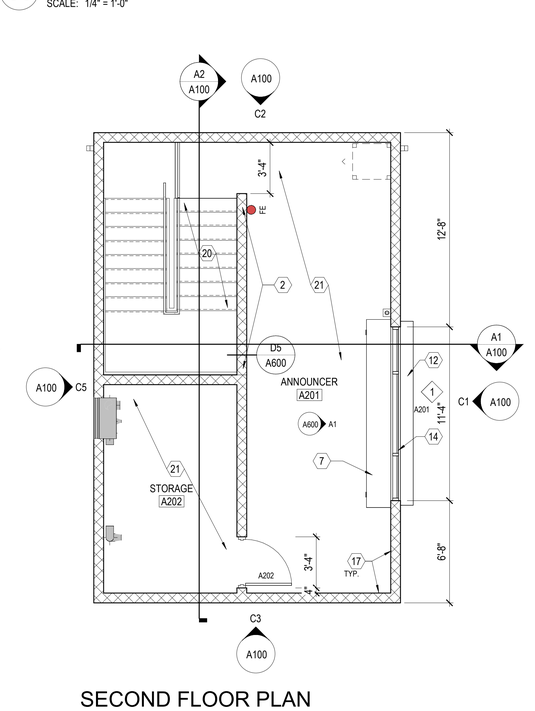
0 2' - 0" 4' - 0" 8' - 0"



C3 NORTH ELEVATION

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

0 2' - 0" 4' - 0" 8' - 0"



C5 EAST ELEVATION

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

0 2' - 0" 4' - 0" 8' - 0"

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SEAL

STATE OF UTAH
CLIFFORD HOWARD CURTIS
No. 7394786-0301
18 AUGUST 2022
REGISTERED ARCHITECT

MHTN PROJECT NO. 2022539

VIEW AND PRINT THIS DRAWING IN COLOR

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8/18/2022

SHEET NAME
ANNOUNCER BOOTH

SHEET NUMBER
A100

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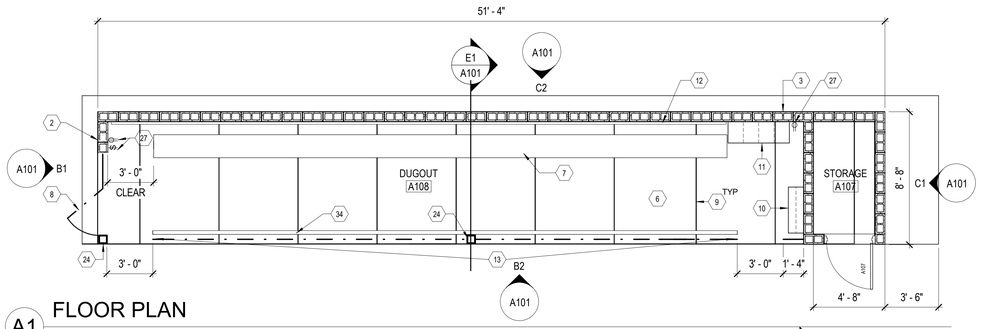
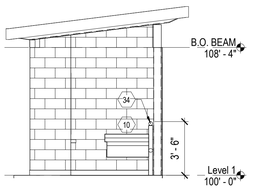


A1 FLOOR PLAN

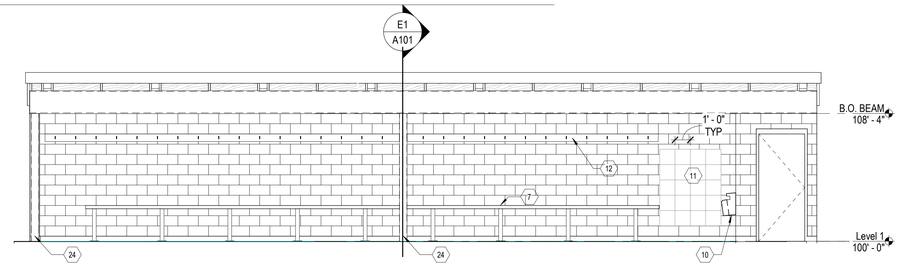
SCALE: 1/4" = 1'-0"



NOTE: CHAIN LINK FENCE NOT SHOWN FOR CLARITY

B1 LEFT ELEVATION

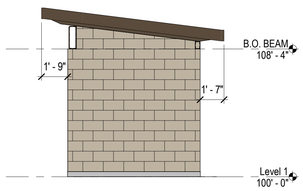
SCALE: 1/4" = 1'-0"



NOTE: CHAIN LINK FENCE & PIPE RAIL NOT SHOWN FOR CLARITY

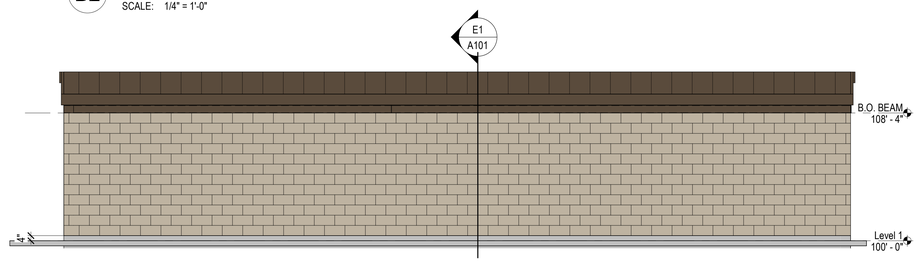
B2 FRONT ELEVATION

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



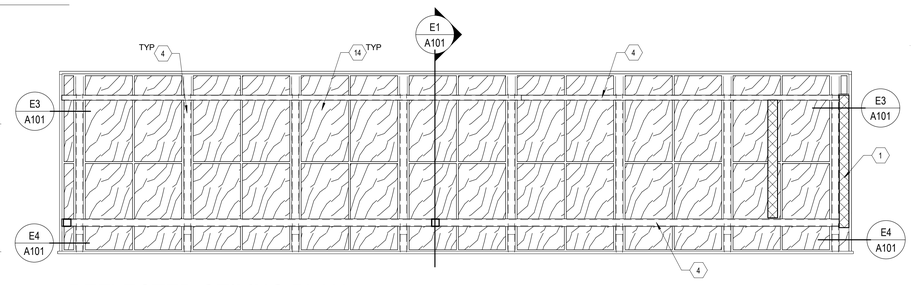
C1 RIGHT ELEVATION

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



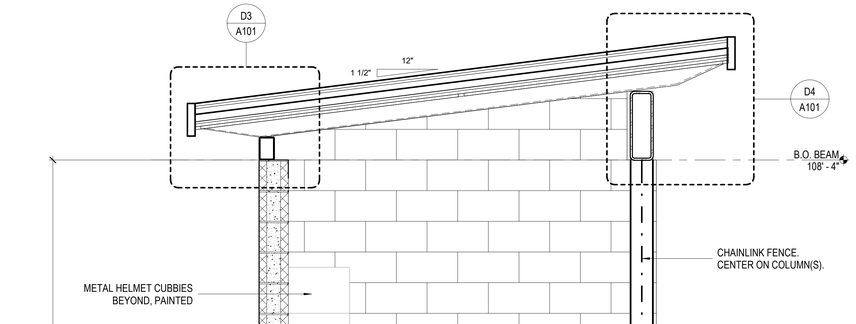
C2 BACK ELEVATION

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



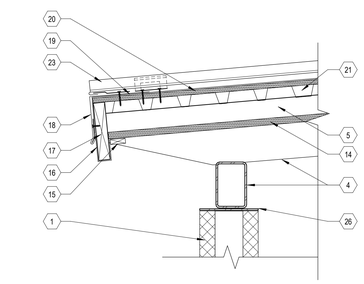
C3 REFLECTED CEILING PLAN

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



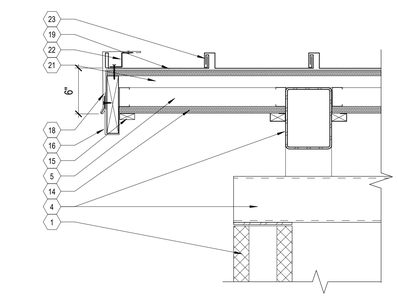
E1 SECTION

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



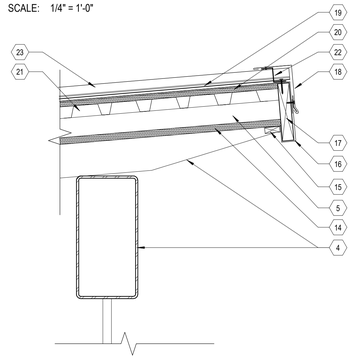
D3 LOW EAVE DETAIL

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



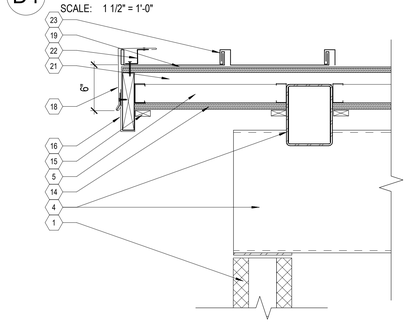
E3 RAKE DETAIL

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



D4 HIGH EAVE DETAIL

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



E4 RAKE DETAIL

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

GENERAL NOTES

1. SEE SHEET A201 FOR EXTERIOR ELEVATION LEGEND.
2. ALL CMU BLOCK FACES @ DUGOUT INTERIOR TO BE HONED

KEY NOTES

1	8" X 8" X 16" LOAD BEARING CMU WALL
2	MASONRY COLUMN, SEE STRUCTURAL
3	8"X8"X16" CMU BLOCK, SEALED.
4	TUBE STEEL BEAM, PAINTED - (SEE STRUCTURAL)
5	2 1/2" METAL STUD FRAMING
6	4" CONCRETE SLAB ON 4" GRAVEL DRAINAGE - CURE & SEAL CURING COMPOUND
7	ALUMINUM PLAYER BENCH 36' L BASEBALL
8	3'-0"x 6'-0" CHAINLINK GATE
9	CONCRETE CONTROL JOINT - TYPICAL
10	BAT RACK
11	METAL HELMET RACK, PAINTED. 1'-4" DEEP
12	HAT HOOKS 16" O.C. ON PAINTED 2X6
13	6' TALL CHAIN LINK FENCE
14	7/8" EXTERIOR GRADE FINISH PLYWOOD, WOOD BATTEN STRIPS AT CAULK JOINTS, PAINTED.
15	1/2" TREATED WOOD TRIM, CAULK JOINTS, PAINTED
16	PRE-FINISHED METAL WRAP, MATCH METAL ROOFING
17	2x8 TREATED WOOD NAILER
18	PRE-FINISHED METAL FASCIA (CONT. CLEAT WITH NO EXPOSED FASTENERS)
19	SELF ADHERING UNDERLAYMENT
20	5/8" PRESSURE TREATED PLYWOOD SHEATHING
21	METAL ROOF DECK
22	METAL ZEE CLOSURE
23	PRE-FINISHED STANDING SEAM METAL ROOF, WITH SEAMS @ 12" O.C., OFFSET CLEAT & CLIPS FOR CONCEALED FASTENING
24	STEEL COLUMN, PAINTED. SEE STRUCTURAL.
26	STEEL PLATE. PAINTED - (SEE STRUCTURAL)
27	ELECTRICAL DEVICE ROUGH-IN
28	WET SEAL JOINT
29	COORDINATE ELEVATION OF BOTTOM OF METAL PANEL TO MEET WITH PANALS COMING AROUND THE SIDES.
31	BLOCKING
32	METAL ACM SOFFIT
34	3" GALV. STEEL PIPE RAIL, VERTICAL SUPPORT PIPES AT 4' O.C.

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OGDEN HIGH SCHOOL BASEBALL FIELD

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MHTN PROJECT NO. 2022539

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CONSTRUCTION DOCUMENTS
8/18/2022

SHEET NAME
DUGOUTS

SHEET NUMBER
A101

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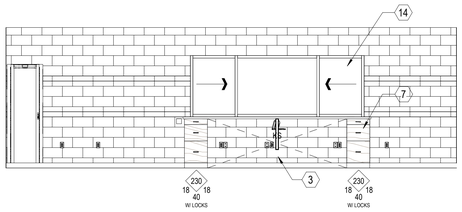
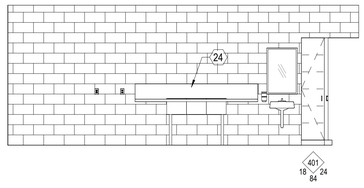


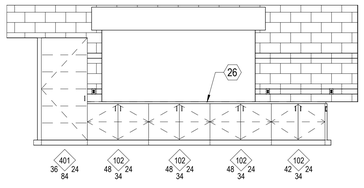
A1 ANNOUNCER - EAST

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



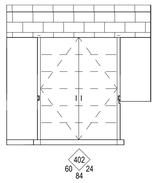
A2 CONCESSIONS - WEST

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



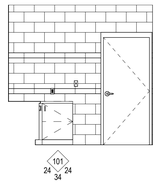
A3 CONCESSIONS - EAST

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



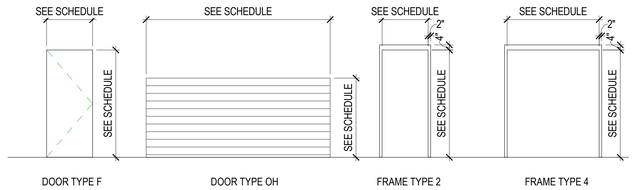
B1 CONCESSIONS - NORTH

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



B2 CONCESSIONS - SOUTH

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



DOOR & FRAME TYPES

KEYNOTES

1. ROOF SYSTEM, STANDING SEAM, SEE SPEC.
2. DOUBLE BULLNOSE CMU WALL CAP
3. BRACE
4. ELECTRIC OPERATED OVERHEAD DOOR
6. METAL SOFIT COLOR TO BE SELECTED
7. 1-1/2" PLASTIC LAMINATE COUNTERTOP WITH 4" BACKSPLASH
8. STRIP SOFFIT VENT
9. FORMED METAL WALL PANEL
11. METAL ROOF PANEL CONTINUOUS RIDGE VENT
12. EXTERIOR COILING DOOR HOUSING, WEATHER SHROWD
13. GUTTER & DOWNSPOUT
14. ALUMINUM WINDOW SYSTEM - OPERABLE
15. KEYED REMOVABLE MULLION
17. INTERIOR CMU, PAINTED (TYPICAL)
18. EXTERIOR CMU, SEALED
19. GYPSUM BOARD, PAINTED
20. RUBBER TREADS AND RISERS
21. CARPET
22. ACID WASHED, SEALED CONCRETE SLAB
23. BOTTLE FILLER
24. THREE COMPARTMENT DRAINBOARD SINK
25. BATT INSULATION
26. STAINLESS STEEL COUNTERTOP

DOOR SCHEDULE GENERAL NOTES

RE: Division 8 Section "Door Hardware" for hardware sets.

Door Leaves: At each door, provide the number of leaves shown on the plans. Where two leaves are shown, provide equal leaves, UNO.

Frame Depth: Coordinate hollow metal frame depth with wall thickness, wrapping stud framed walls. Provide depths as scheduled for masonry walls, UNO.

Abbreviations: Door and Frame Schedule Remarks abbreviations:

ADA	ADA Actuator
CR	Card Reader
DE	Delayed Egress
EL	Electric Latch
ES	Electric Strike
MO	Motor Operation
MHO	Magnetic Hold Open

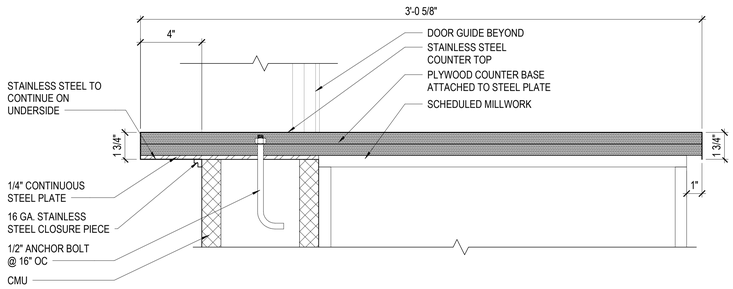
HOLLOW METAL FRAME DEPTH SCHEDULE

MASONRY/CONCRETE DEPTH	FRAME DEPTH
6"	5 3/4"
8"	6 3/4"
10"	8 3/4"
12"	10 3/4"

DOOR AND FRAME SCHEDULE

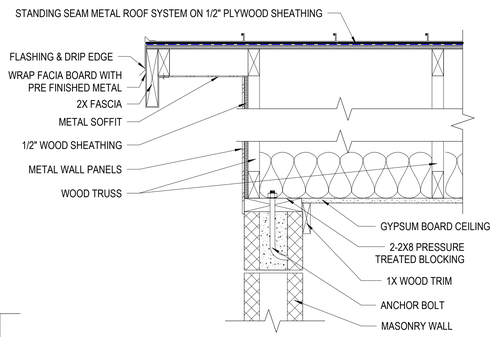
	DOOR					FRAME								
DOOR#	TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	TYPE	MATERIAL	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	FIRE RATING (MIN)	HARDWARE SET	REMARKS	DOOR #
A101	F	6'-4"	7'-0"	1 3/4"	HM	4	HM	E4/A600	E5/A600	E3/A600		01		A101
A102	F	3'-0"	7'-0"	1 3/4"	HM	2	HM	E4/A600	E5/A600	E3/A600		06		A102
A103	F	3'-0"	7'-0"	1 3/4"	HM	2	HM	E4/A600	E5/A600	E3/A600		05		A103
A104A	F	3'-0"	7'-0"	1 3/4"	HM	2	HM	E4/A600	E5/A600	E3/A600		02		A104A
A104B	OH	10'-0"	4'-8"	3"	SS		SL	C4/A600	C3/A600				MANUALLY OPERATED	A104B
A105	F	3'-0"	7'-0"	1 3/4"	HM	2	HM	E4/A600	E5/A600	E3/A600		03		A105
A106	F	3'-0"	7'-0"	1 3/4"	HM	2	HM	E4/A600	E5/A600	E3/A600		03		A106
A107	F	3'-0"	7'-0"	1 3/4"	HM	2	HM	E4/A600	E5/A600	E3/A600		02		A107
A201	OH	12'-0"	5'-2"		SS		SL	E1/A600	E2/A600				MOTOR OPERATED	A201
A202	F	3'-0"	7'-0"	1 3/4"	HM	2	HM	E4/A600	E5/A600			04		A202

Grand total: 12



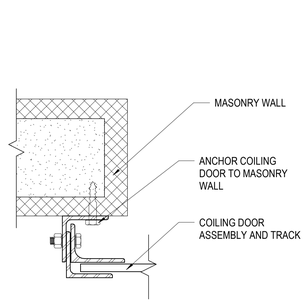
C1 COUNTER DOOR SILL DETAIL

SCALE: 3" = 1'-0"



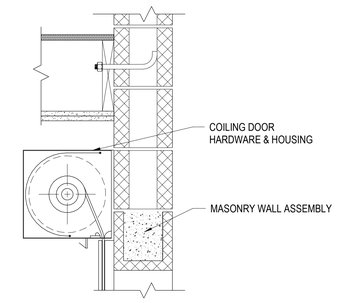
C3 ANNOUNCER BOOTH - RAKE DETAIL

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



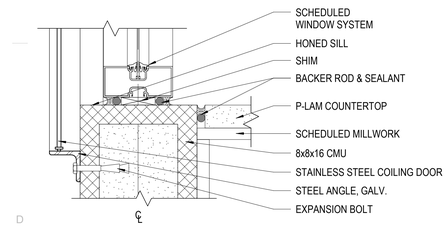
C4 COILING DOOR JAMB DETAIL

SCALE: 3" = 1'-0"



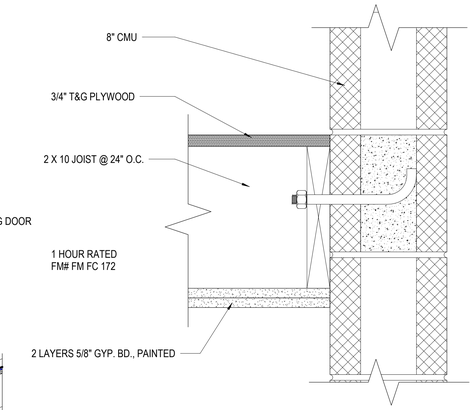
C5 COILING DOOR DETAIL

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



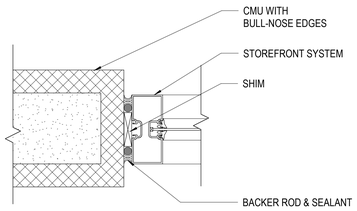
D1 SILL DETAIL

SCALE: 3" = 1'-0"



D2 FLOOR TO WALL CONNECTION

SCALE: 3" = 1'-0"



D3 JAMB DETAIL

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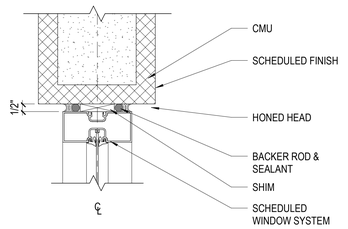
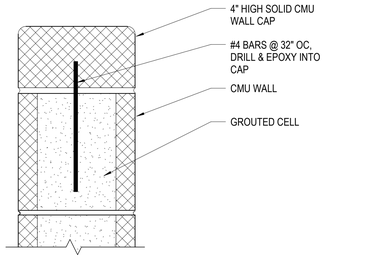


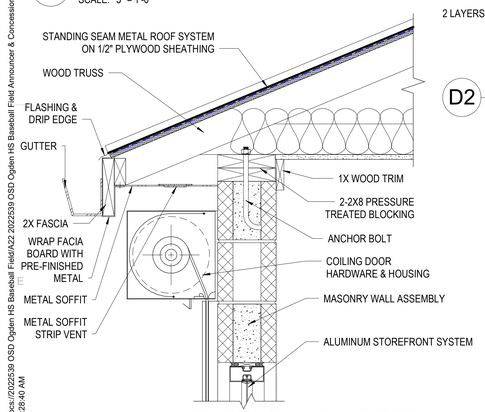
D4 HEAD DETAIL

SCALE: 3" = 1'-0"



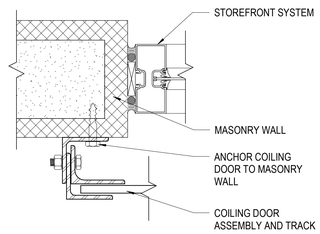
D5 PONY WALL DETAIL

SCALE: 3" = 1'-0"



E1 ANNOUNCER BOOTH - EAVE DETAIL

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



E2 COILING DOOR JAMB DETAIL

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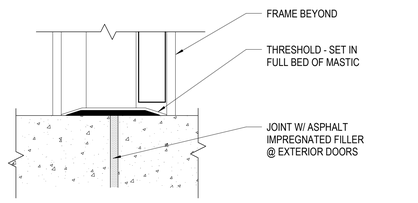
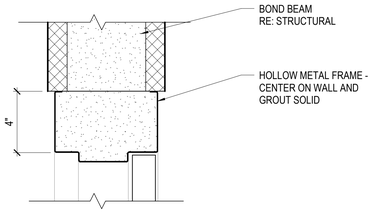


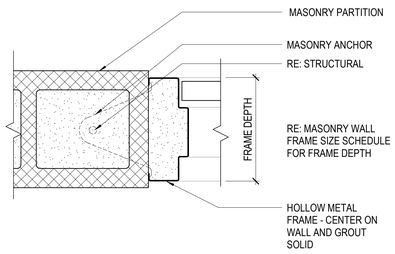
E3 THRESHOLD DETAIL

SCALE: 3" = 1'-0"



E4 HEAD DETAIL

SCALE: 3" = 1'-0"



E5 JAMB DETAIL

SCALE: 3" = 1'-0"

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SEAL

STATE OF UTAH
CLIFFORD HOWARD CURTIS
No. 7394786-0301
18 AUGUST 2022
REGISTERED ARCHITECT

MHTN PROJECT NO. 2022539

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SHEET NAME
DOOR SCHEDULE, ELEVATIONS & DETAILS

SHEET NUMBER
A600

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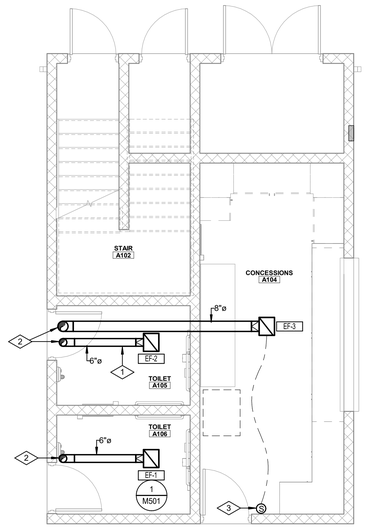
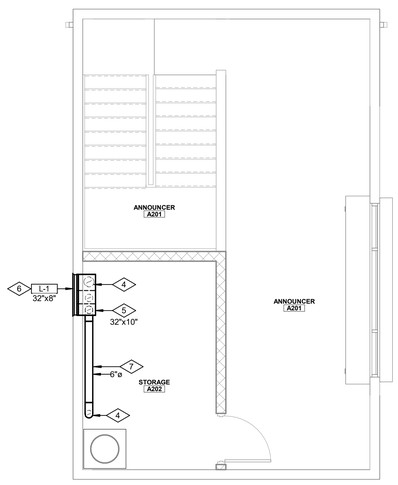


Level 1 Mechanical Floor Plan

0 2' - 0" 4' - 0" 8' - 0"

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



Level 2 Mechanical Floor Plan

0 2' - 0" 4' - 0" 8' - 0"

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

REFERENCE NOTES

1. DUCT TO RUN ABOVE CEILING. (TYPICAL)
2. EXHAUST DUCTS UP TO ABOVE. SEE LEVEL 2 PLAN ON THIS SHEET.
3. 0-3 TIMER WITH INDICATING LIGHT TO CONTROL EF-3. TIMER BY DIVISION 23.
4. EXHAUST DUCTS UP THRU FLOOR BELOW TO SEPARATE SECTION AT L-1 PLENUM.
5. LINED EXHAUST PLENUM AT BACK OF L-1. EACH FAN SHALL HAVE SEPARATE SECTION. DUCTS TO CONNECT AT BOTTOM OF PLENUM.
6. COORDINATE EXACT LOCATION AND ELEVATION WITH ARCHITECTURAL ELEVATIONS.
7. EXHAUST DUCT TO RUN HIGH AND TIGHT TO WALL.

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OGDEN, UT 84403

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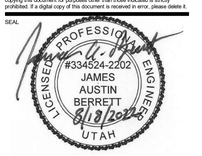

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SHEET NAME
ANNOUNCER BOOTH MECHANICAL

SHEET NUMBER
M100

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EXHAUST FAN SCHEDULE

SYMBOL	TYPE	AREA SERVED	C.F.M	S.P.	R.P.M.	MOTOR	DRIVE	MAKE & MODEL (1)
EF-1	CEILING	TOILET	75	.25"	640	1.1 AMPS 120/1/60	DIRECT	TWIN CITY T100 (2)
EF-2	CEILING	TOILET	75	.25"	640	1.1 AMPS 120/1/60	DIRECT	TWIN CITY T100 (2)
EF-3	CEILING	CONCESSIONS	150	.25"	710	100 WATTS 120/1/60	DIRECT	TWIN CITY T150 (3)

NOTES:

(1) CEILING MOUNTED EXHAUST FANS TO BE COMPLETE WITH SIGHT TIGHT BAR-TYPE CEILING GRILLE, BACKDRAFT DAMPERS AND FLEXIBLE CONNECTION ON DISCHARGE DUCT.

(2) FANS TO INTERLOCK WITH LIGHTS WITH 10 MINUTE DELAY. BY DIVISION 23.

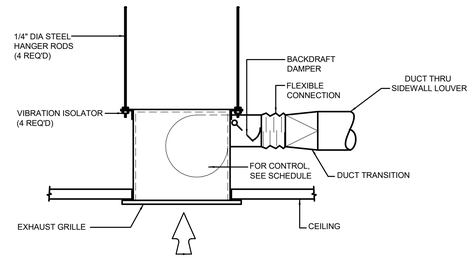
(3) FAN TO OPERATE ON WALL SWITCH WITH 0-3 HOUR TIMER & INDICATING LIGHT. BY DIVISION 23.

LOUVER SCHEDULE

SYMBOL	SIZE	LOCATION	TYPE	MAKE & MODEL (1)(2)(3)(4)
L-1	36" x 8"	CONCESSION SIDEWALL	EXHAUST AIR	AIROLITE K609

NOTES:

(1) PROVIDE 1/2" MESH GALVANIZED BIRDSCREEN.
(2) PROVIDE CUSTOM KYNAR TYPE FINISH. COLOR TO BE SELECTED BY ARCHITECT.
(3) COORDINATE EXACT LOCATIONS WITH ARCHITECTURAL ELEVATIONS.
(4) PROVIDE FLUSH TYPE MOUNTING FRAME.
(5) COORDINATE EXACT DIMENSIONS WITH ARCHITECT PRIOR TO ORDER AND ROUGH-IN.



CEILING EXHAUST FAN DETAIL — 1 / M501

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LICENSED PROFESSIONAL ENGINEER
#334524-2202
JAMES
AUSTIN
BERRETT
8/18/2022
UTAH

MHTN PROJECT NO. 2022539

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SHEET NAME
MECHANICAL SCHEDULES AND DETAILS

SHEET NUMBER
M501

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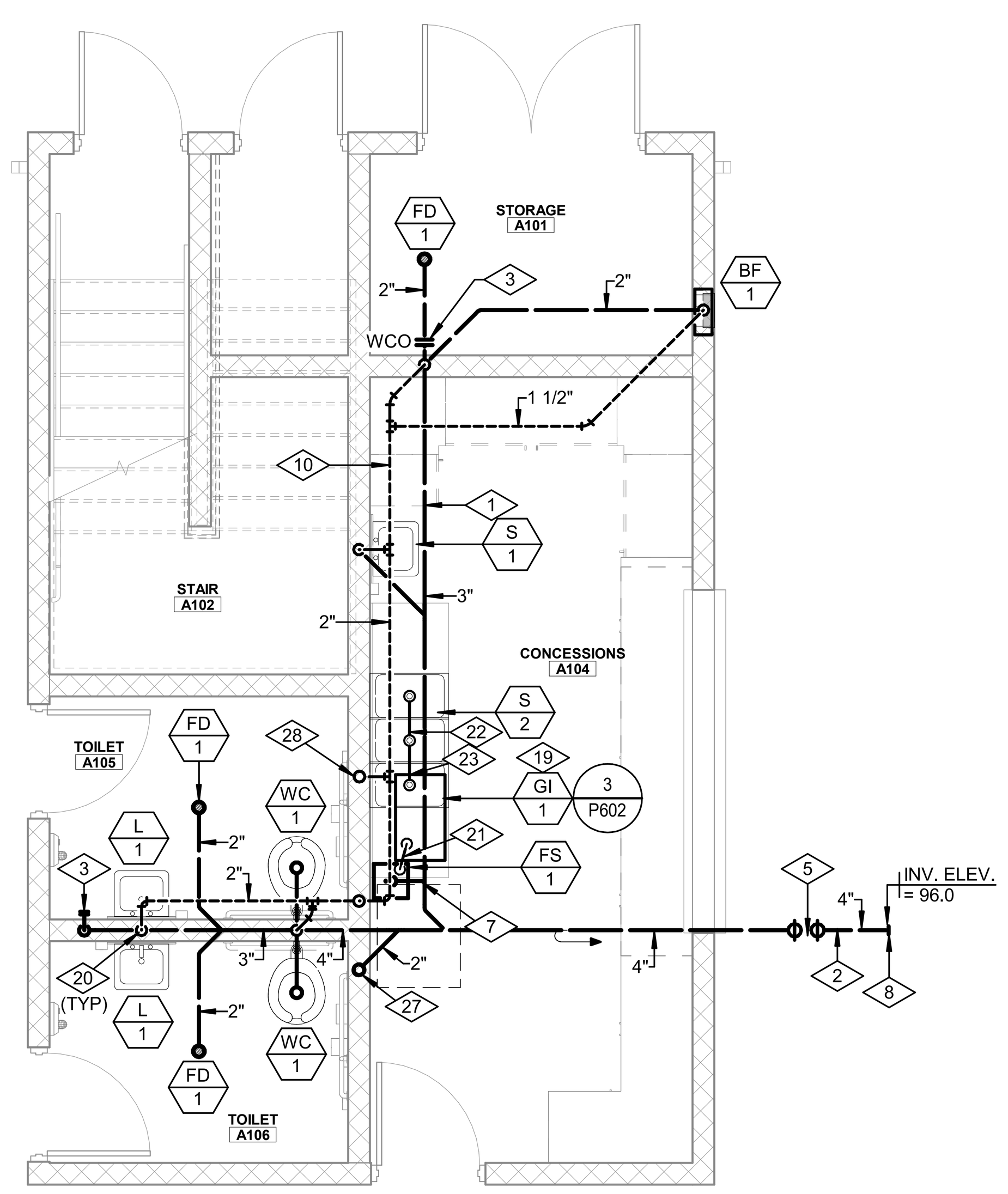
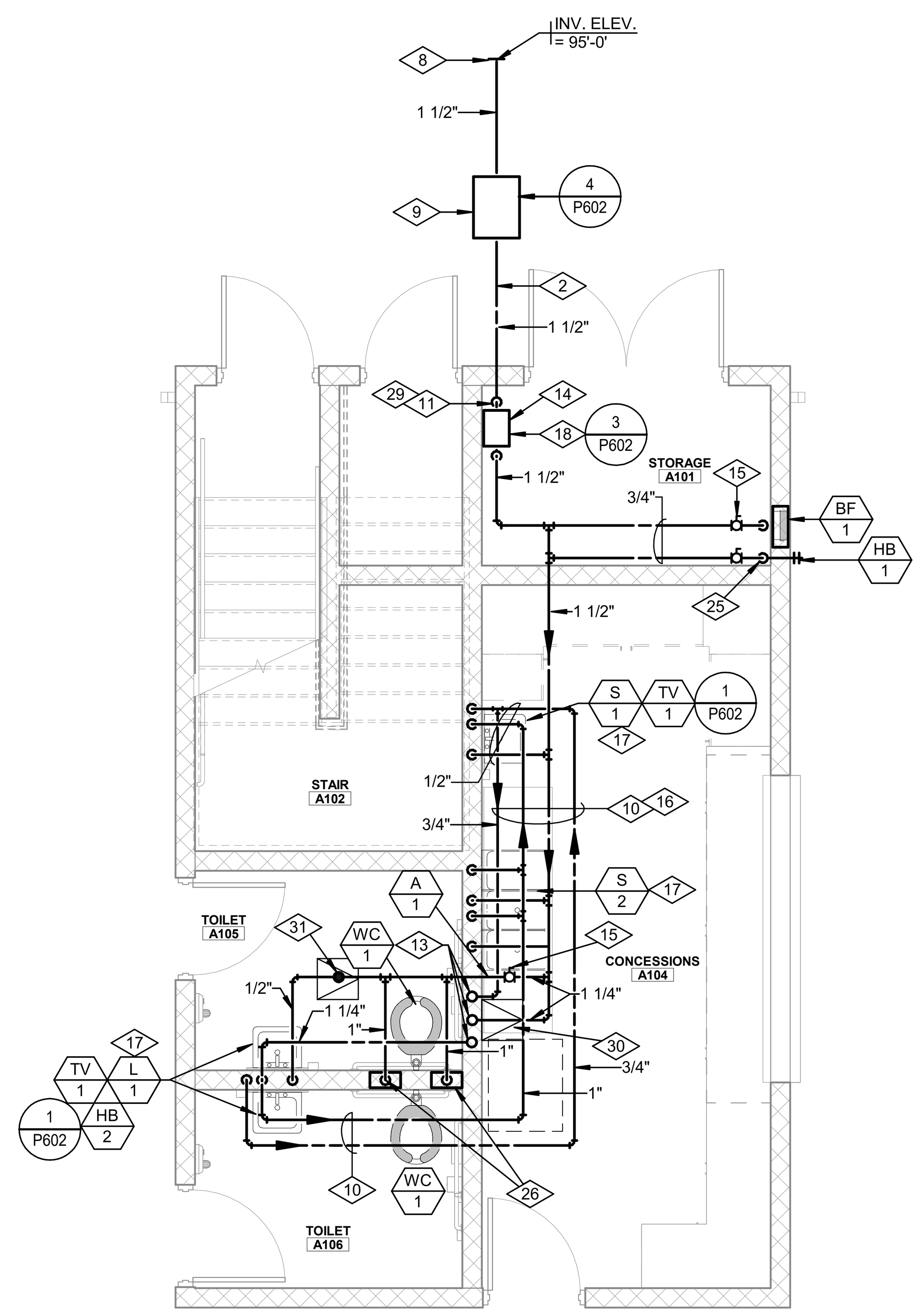


Level 1 Plumbing Floor Plan

WASTE & VENT

0 2' - 0" 4' - 0" 8' - 0"

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



Level 1 Plumbing Floor Plan

WATER SUPPLY

0 2' - 0" 4' - 0" 8' - 0"

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

REFERENCE NOTES

1 PIPING TO RUN BELOW FLOOR. COORDINATE ROUTING WITH ALL TRADES. (TYPICAL)

2 PIPING TO RUN BELOW FINISHED GRADE.

3 WALL CLEANOUT (WCO). SEE DETAIL 4/P601.

4 PROVIDE DRAIN PAN FOR WH-1.

5 DOUBLE CLEANOUT TO GRADE (COTG). SEE DETAIL 6/P601.

6 VENT THRU ROOF (VTR). SEE DETAIL 4/P601.

7 PIPE WASTE INDIRECT TO FLOOR SINK.

8 TERMINATE PIPING 5'-0" BEYOND BUILDING LINE. PLUMBING CONTRACTOR TO MAKE FINAL CONNECTION TO SITE UTILITIES. COORDINATE EXACT SIZE, LOCATION AND INVERT WITH SITE UTILITY CONTRACTOR.

9 PROVIDE 24" x 18" CONCRETE VALVE BOX WITH HEAVY DUTY HINGED/LOCKING LID FOR STOP AND WASTE VALVE ACCESS.

10 PIPING TO RUN ABOVE CEILING. COORDINATE ROUTING WITH STRUCTURE AND ALL TRADES. (TYPICAL)

11 PIPING UP THRU FLOOR.

12 WASTE PIPING TO DROP TO BELOW FLOOR.

13 PIPING UP TO ABOVE WITH CAPPED DRAIN VALVES AT RISE. SEE LEVEL 2 PLAN ON THIS SHEET.

14 BUILDING WATER CONTROL VALVE. SEE DETAIL 3/P601.

15 BALL TYPE SHUT-OFF VALVE. VALVE LOCATION MUST BE ACCESSIBLE. (TYPICAL)

16 SLOPE ALL PIPING TO DRAINS FOR WINTER DRAIN DOWN. (TYPICAL)

17 PROVIDE DRAIN VALVES AT EACH LAVATORY OR SINK FOR WINTER DRAIN DOWN. (TYPICAL)

18 SCHRADER VALVE TO BLOW OUT PIPING FOR WINTER DRAIN DOWN. SEE DETAIL 7/P601.

19 GI-1 TO BE INSTALLED ABOVE FLOOR BELOW TABLES.

20 VENT TO RISE IN WALL TO ABOVE CEILING.

21 PIPE 3" DISCHARGE FROM GI-1 INDIRECT TO FS-1.

22 PIPE (3) OUTLETS FROM 3-COMPARTMENT SINK TO 3" INLET AT GI-1.

23 3" INLET FROM 3-COMPARTMENT SINK TO GI-1.

24 PIPE DRAIN PAN TO FD-2.

25 BALL VALVE WITH CAPPED HOSE CONNECTION FOR DRAIN DOWN.

26 16" x 16" x 6" STAINLESS STEEL HEAVY GAUGE WALL BOX WITH HINGED LOCKING COVER FOR WH-1 FLUSH VALVE.

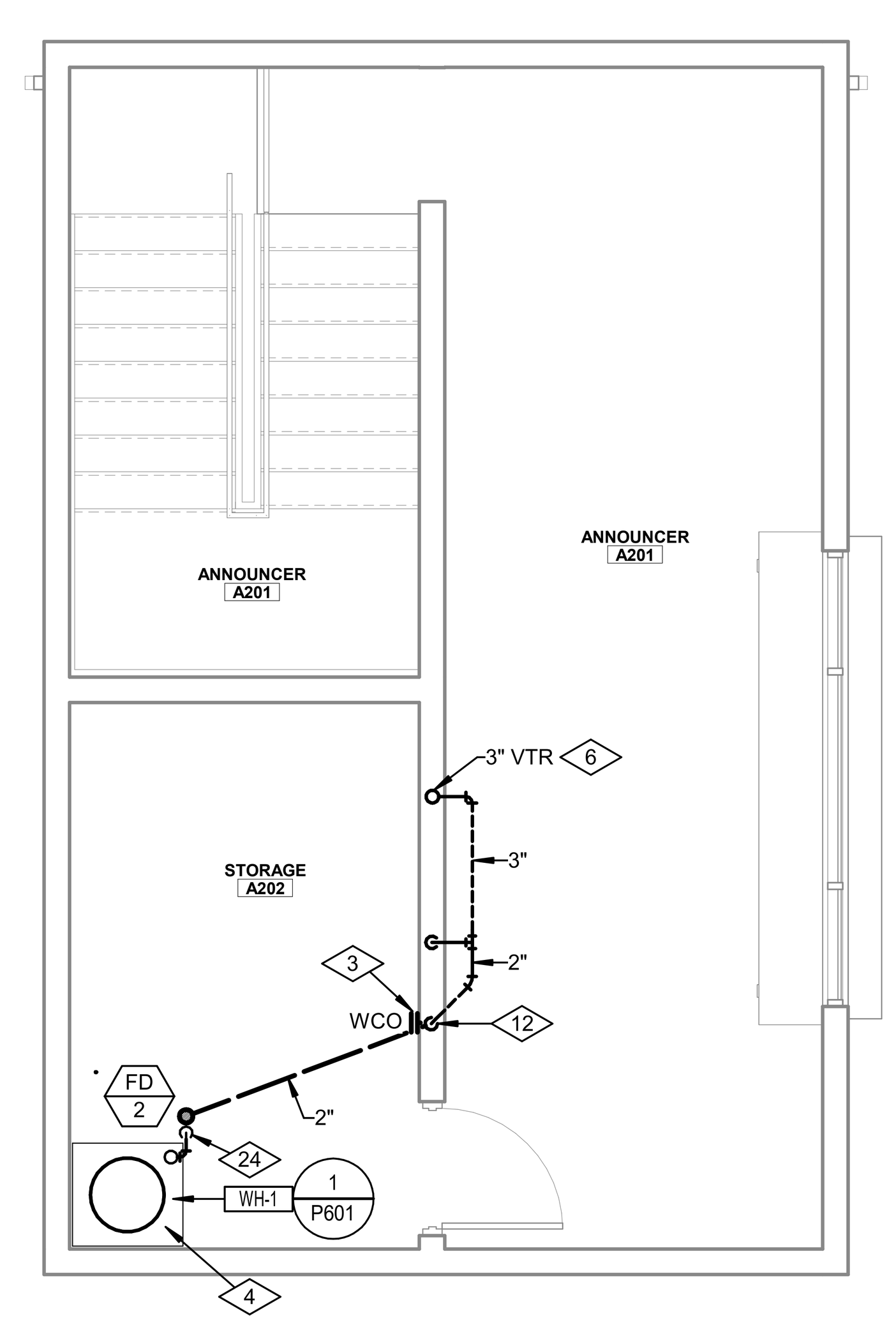
27 2" WASTE DOWN FROM ABOVE.

28 2" VENT UP TO ABOVE.

29 PROVIDE HEAT TAPE AT WATER MAIN. SEE DETAIL 1/P601.

30 16" x 16" ACCESS PANEL TO ACCESS PIPING BETWEEN STRUCTURE. (TYPICAL)

31 WATER HAMMER ARRESTOR

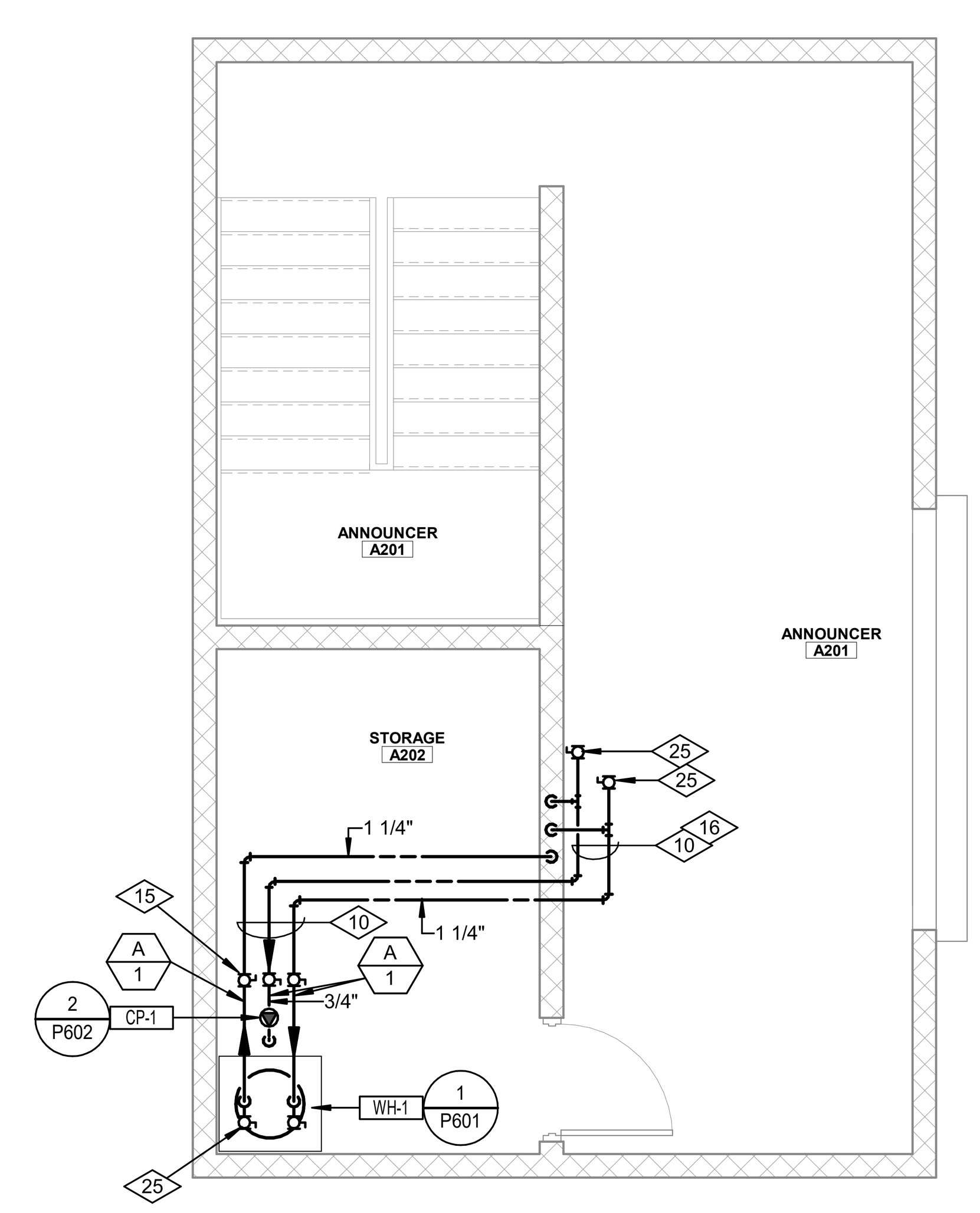


Level 2 Plumbing Floor Plan

WASTE & VENT

0 2' - 0" 4' - 0" 8' - 0"

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



Level 2 Plumbing Floor Plan

WATER SUPPLY

0 2' - 0" 4' - 0" 8' - 0"

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

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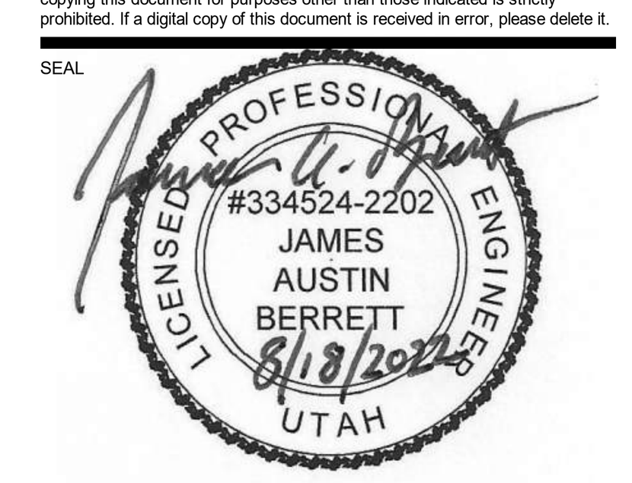

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ANNOUNCER BOOTH PLUMBING

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P100

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PLUMBING LEGEND

WASTE	
VENT	
COLD WATER (CW)	
HOT WATER (HW)	
HOT WATER RETURN (HWR)	
DRAIN	
VENT THRU ROOF	VTR
CO - CLEANOUT	CO
WCO - WALL CLEANOUT	WCO
DOUBLE CLEANOUT TO GRADE	
AFF - ABOVE FINISHED FLOOR	
AFG - ABOVE FINISHED GRADE	

BRANCH WATER LINE SCHEDULE

FIXTURE	FIXTURE UNITS	TOTAL QUANTITY OF FIXTURES SERVED BY A GIVEN PIPE SIZE					
		1/2"	3/4"	1"	1 1/4"	1-1/2"	2"
WATER CLOSET	10	--	--	1	2	3	8
LAVATORY	2	1	3	5	7	15	50
SINK	2	1	3	5	7	15	50
KITCHEN SINK	2	1	3	5	7	15	50
DRINKING FOUNTAIN	1	2	6	10	15	30	--
HOSE BIBB	3	--	1	3	5	10	33
WALL HYDRANT	3	--	1	3	5	10	33
TOTAL FIXTURE UNITS SERVED BY PIPE SIZE		2	6	10	15	30	100

NOTE:
MINIMUM PIPE SIZE TO ANY FIXTURE TO BE 1/2". WHERE PIPE SIZE IS SHOWN ON DRAWINGS, IT SHALL BE FOLLOWED. IN THE EVENT PIPE SIZES ARE NOT SHOWN, THE SIZE OF ANY BRANCH LINE SHALL BE DETERMINED BY USING THIS TABLE. FIND SUM OF TOTAL FIXTURE UNITS ON BRANCH LINE, THEN REDUCE TOTAL BY SUBTRACTING OFF INDIVIDUAL FIXTURE UNITS FOR EACH SUCCESSIVE FIXTURE ALONG THE BRANCH LINE.

PLUMBING EQUIPMENT SCHEDULE

WH-1 WATER HEATER: ELECTRIC, HIGH EFFICIENCY PACKAGED TYPE, 4500 WATTS, 18 GPH, RECOVERY AT 100°F TEMPERATURE RISE. TANK: 40 GALLON GLASS LINED, 1" NON CFC FOAM INSULATION, 150 PSIG WORKING PRESSURE, PRESSURE RELIEF VALVE CONNECTION, DRAIN VALVE.

MANUFACTURER: BRADFORD WHITE
MODEL: LE140L
SIZE: 32-13/16" H x 22" DIA.
ELEC: 240/1/60, 4500 WATTS

EX-1 EXPANSION TANK (DOMESTIC): OUTER STEEL SHELL, PRE-CHARGED AIR CHAMBER - FACTORY CHARGED TO 55 PSI. 0.9 GALLONS ACCEPTANCE VOLUME. 2.0 GALLONS TOTAL VOLUME.

MANUFACTURER: AMTROL
MODEL: ST-5
SIZE: 13" H X 8" DIA.
SHIPPING WEIGHT: 5 LBS

CP-1 PUMP: IN-LINE RECIRCULATING, 120°F, WATER, 1 GPM AT 5 FT. HEAD, 1/6 H.P., 120/1/60, 1725 RPM, 3/4" CONNECTIONS. ALL BRONZE CONSTRUCTION.

MANUFACTURER: TACO
MODEL: SMART PLUS

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	WASTE	VENT	C.W.	H.W.	TEMP. W.	NOTES (1)
WC 1	WATER CLOSET	4"	2"	1"	--	--	FLOOR MOUNTED - SENSOR FLUSH VALVE ADA
L 1	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	1/2"	WALL MOUNTED - ADA W/ASSE TV-1
S 1	HAND SINK CONCESSIONS	1-1/2"	1-1/2"	1/2"	1/2"	--	WALL MOUNTED W/ TV-1
S 2	3- COMP. SINK CONCESSIONS	(3) 1-1/2"	1-1/2"	(2) 1/2"	(2) 1/2"	--	3-COMPARTMENT COUNTER MOUNTED
BF 1	BOTTLE FILLER	1-1/2"	1-1/2"	1/2"	--	--	RECESSED, NON-REFRIGERATED
TV 1	TEMPERING VALVE	--	--	1/2"	1/2"	1/2"	SINGLE LAV. ASSE 1070 MOUNT UNDER LAVATORIES
HB 1	HOSE BIBB	--	--	3/4"	--	--	EXTERIOR NON-FREEZE (2)
HB 2	HOSE BIBB	--	--	3/4"	--	--	(TOILET ROOMS)
FD 1	FLOOR DRAIN	2"	1-1/2"	--	--	--	W/DEEP SEAL TRAP AND ASSE TRAP GUARD
FD 2	FLOOR DRAIN	2"	1-1/2"	--	--	--	FOR WOOD FLOOR INSTALL W/ ASSE TRAP GUARD
A 1	BLOW OUT VALVE	--	--	--	--	--	SEE DETAIL 7/P601
FS 1	FLOOR SINK	3"	2"	--	--	--	PROVIDE GRATE AS REQUIRED
GI 1	GREASE INTERCEPTOR	3"	3"	--	--	--	FLOOR MOUNTED SEE DETAIL 3/P602

NOTES:
(1) CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL PLUMBING FIXTURES AND DRAINS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN OR INSTALLATION.
(2) 12" LENGTH. CENTER BOX IN BLOCK COURSE.

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P501

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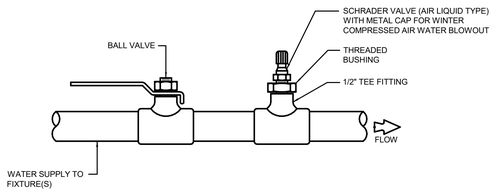
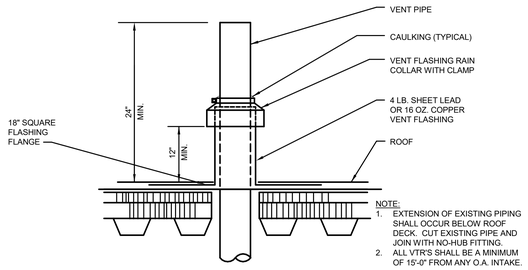


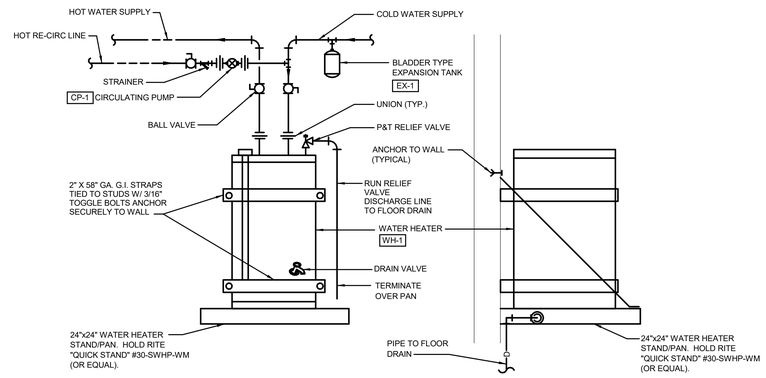
COMPRESSED AIR WATER BLOWOUT VALVE DETAIL

NOT TO SCALE — 7 / P601



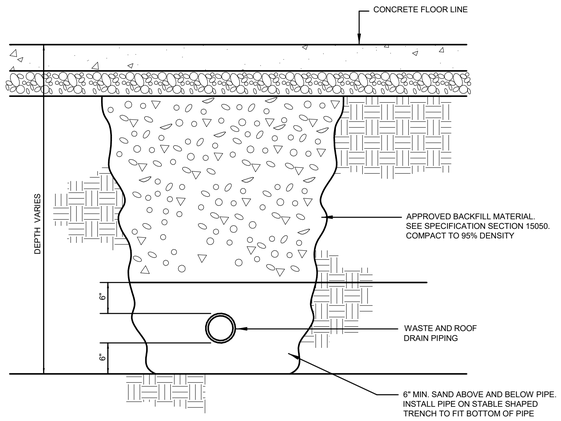
VENT THRU ROOF DETAIL

NOT TO SCALE — 4 / P601



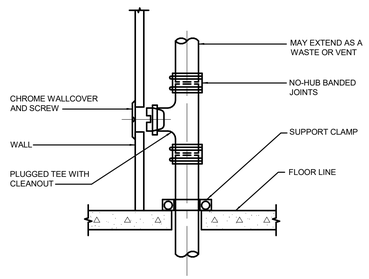
ELECTRIC WATER HEATER PIPING DETAIL

NOT TO SCALE — 1 / P601



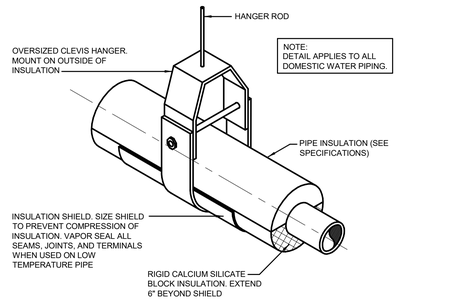
TYPICAL WASTE & ROOF DRAIN TRENCH DETAIL

NOT TO SCALE — 8 / P601



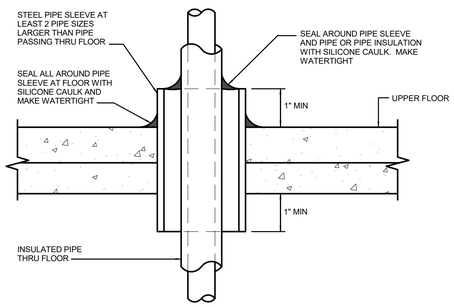
WALL CLEANOUT DETAIL

NOT TO SCALE — 5 / P601



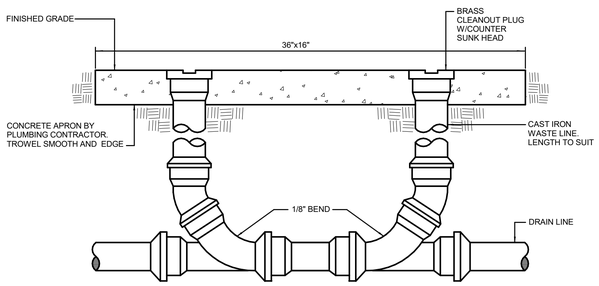
PIPE SUPPORT DETAIL

NOT TO SCALE — 2 / P601



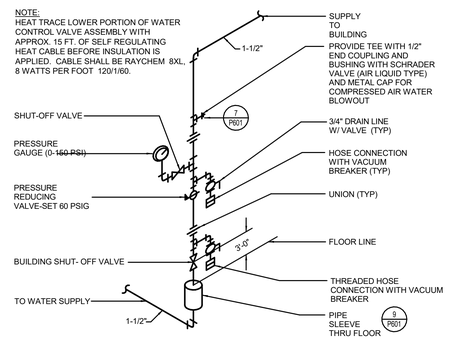
PIPE THRU FLOOR DETAIL

NOT TO SCALE — 9 / P601



DOUBLE CLEANOUT TO GRADE DETAIL

NOT TO SCALE — 6 / P601



BUILDING WATER CONTROL VALVE

NOT TO SCALE — 3 / P601

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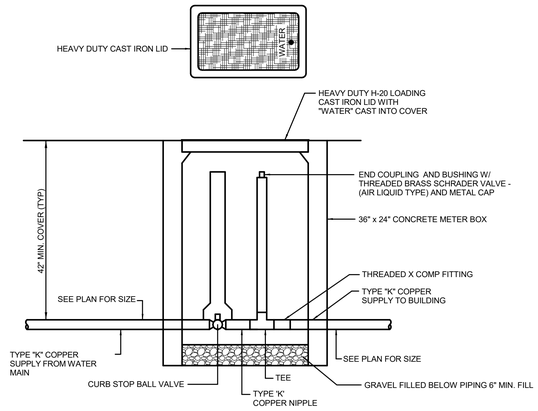
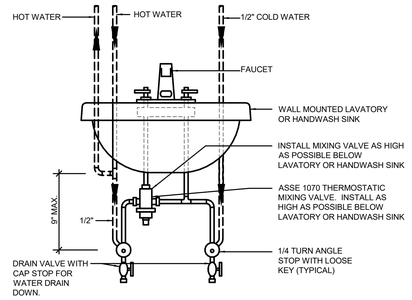


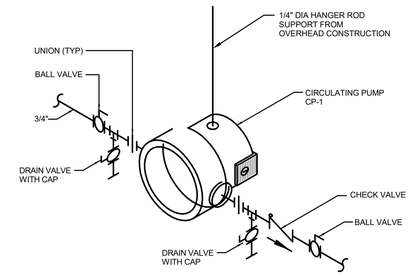
BUILDING SHUT-OFF AND BLOWOUT DETAIL (4 / P602)

NOT TO SCALE



LAVATORY OR HANDWASH SINK PIPING DETAIL (1 / P602)

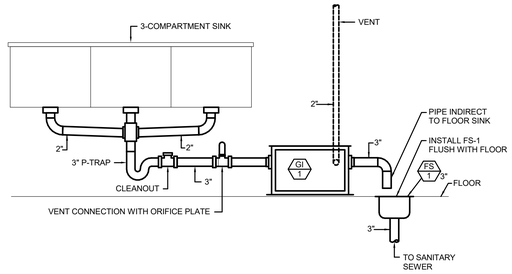
NOT TO SCALE



HOT WATER RECIRCULATING PUMP DETAIL (2 / P602)

NOT TO SCALE

CAREFULLY FOLLOW GREASE INTERCEPTOR MANUFACTURER'S INSTALLATION INSTRUCTIONS



ABOVE FLOOR GREASE INTERCEPTOR DETAIL (3 / P602)

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ABBREVIATIONS INDEX

ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
#	NUMBER	MH	MANHOLE
AC	ALTERNATING CURRENT	MIC	MICROPHONE
A.F.F.	ABOVE FINISH FLOOR	MIN	MINIMUM
AIC	AMPS INTERRUPTING CAPACITY	MTG	MOUNTING
AM	AMPS METER	MTR	MOTOR
AMP	AMPERE	N/A	NOT APPLICABLE
ANN	ANNUNCIATOR	NC	NORMALLY CLOSED
ATS	AUTOMATIC TRANSFER SWITCH	NEC	NATIONAL ELECTRICAL CODE
AUX	AUXILIARY	NEMA	NATIONAL ELECT. MANUFAC. ASSOC.
AWG	AMERICAN WIRE GAUGE	NFPA	NATIONAL FIRE PROTECTION ASSOC.
BC	BARE COPPER	N.I.C.	NOT IN CONTRACT
BFG	BELOW FINISH GRADE	NO	NORMALLY OPENED
C	CONDUIT	NTS	NOT TO SCALE
CAB	CABINET	OS & Y	OUTSIDE SCREW & YOKE
CATB	COMMUNITY ANTENNA TELEVISION	PB	PUSHBUTTON
CATV	CABLE TELEVISION	PF	POWER FACTOR
CKT	CIRCUIT	PFR	PHASE FAILURE RELAY
CLG	CEILING	PNL	PANEL
CNTR	CONTRACTOR	PT	POTENTIAL TRANSFORMER
C.O.	CONDUIT ONLY	PVC	POLYVINYL CHLORIDE CONDUIT
CRT	COMPUTER TERMINAL	(R)	RELOCATE
CT	CURRENT TRANSFORMER	RECEP	RECEPTACLE
CU	COPPER	REQ	REQUIREMENT
C/W	COMPLETE WITH	RLA	RATED LOAD AMPS
DB	DECIBEL	RMP	ROCKY MOUNTAIN POWER
DC	DIRECT CURRENT	RMS	ROOT MEAN SQUARE
DWG	DRAWING	SE	SERVICE ENTRANCE
(E)	EXISTING TO REMAIN	SPEC	SPECIFICATIONS
EC	EMPTY CONDUIT	SPKR	SPEAKER
EG	EMERGENCY GENERATOR	SS	SELECTOR SWITCH
EMT	ELECTRICAL METALLIC TUBING	SW	SWITCH
EX	EXPLOSION PROOF	SWBD	SWITCHBOARD
FACP	FIRE ALARM CONTROL PANEL	SWGR	SWITCHGEAR
FC	FOOT CANDLE	TTB	TELEPHONE TERMINAL BOARD
FT	FOOT	TTC	TELEPHONE TERMINAL CABINET
GFI	GROUND FAULT INTERRUPTER	TV	TELEVISION
GND	GROUND	TYP	TYPICAL
GRC	GALVANIZED RIGID CONDUIT	UG	UNDERGROUND
HP	HORSE POWER	UPS	UNINTERRUPTED POWER SUPPLY
HZ	HERTZ	V	VOLT (KV-KILOVOLT)
IFC	INTERNATIONAL FIRE CODE	VA/R	VOLT-AMPS/REACTIVE
IG	ISOLATED GROUND	VM	VOLT METER
IMC	INTERMEDIATE METALLIC CONDUIT	W	WATTS
IN	INCH	W/	WITH
J-BOX	JUNCTION BOX	WH	WATTHOUR METER
KV	KILOVOLT	W/O	WITHOUT
KVA	KILOVOLT AMPERES	WP	WEATHERPROOF
KVAR	KILOVARS	XFMR	TRANSFORMER
KW	KILOWATT	XFMR SW	TRANSFER SWITCH
LRA	LOCKED ROTOR AMPS	XP	EXPLOSION PROOF
LTG	LIGHTING	1P	SINGLE-PHASE
MNF	MANUFACTURER	2P	TWO-POLE
MAX	MAXIMUM	3P	THREE-POLE
MB	MAIN BUS	4P	FOUR-POLE
MCC	MOTOR CONTROL CENTER	∅	PHASE
MCM	1000 CIRCULAR MILLS		

GENERAL NOTES

1. CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
2. VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.
3. CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC) OF ALL EQUIPMENT FURNISHED UNDER ALL DIVISIONS, INCLUDING ALL EXISTING EQUIPMENT TO BE RE-USED. REVIEW ALL SHOP DRAWINGS AND EXISTING EQUIPMENT BEFORE BEGINNING ROUGH-IN.
4. SEE SECTION 265100 (16510) OF THE SPECIFICATION FOR REQUIRED COORDINATION MEETINGS WITH MECHANICAL AND CEILING CONTRACTORS.
5. SEE APPLICABLE SHOP DRAWINGS FOR ROUGH IN LOCATION OF ALL EQUIPMENT, WIRING DEVICES, ETC. WHERE APPLICABLE MOUNT ALL WIRING DEVICES ABOVE BACK SPLASH EXCEPT THOSE SERVING UNDER COUNTER EQUIPMENT.
6. FINISHES OF ALL LIGHT FIXTURES SHALL BE AS SELECTED BY ARCHITECT.
7. THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THRU ELECTRICAL ROOMS OR SPACES, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS.
8. ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY COLUMNS IN BRICK WALLS OR IN GROUTED CELLS ADJACENT TO OPENINGS. COORDINATE LOCATION OF BOXES WITH MASONRY CONTRACTOR.
9. ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.
10. CONTRACTOR SHALL VERIFY FURNITURE LAYOUT PRIOR TO ANY FLOORBOX OR POKE-THRU INSTALLATION. COORDINATE EXACT LOCATION OF FLOOR BOX OR POKE-THRU WITH OWNER AND FURNITURE PROVIDER PRIOR TO ROUGH-IN.
11. CIRCUITS EXTENDING OVER 70' FOR 120 VOLT AND 115' FOR 277 VOLT 20 AMP CIRCUITS SHALL BE RUN WITH CONDUCTORS PER TABLE BELOW.

20 AMP MINIMUM BRANCH CIRCUIT CONDUCTOR SIZING		
MAXIMUM LENGTH	BRANCH CIRCUIT VOLTAGE	
CONDUCTOR LENGTH (FT)	120 VOLT	277 VOLT
<70	MIN. #12 AWG	MIN. #12 AWG
70 - 115	MIN. #10 AWG	MIN. #12 AWG
115 - 170	MIN. #8 AWG	MIN. #10 AWG
170 - 270	MIN. #6 AWG	MIN. #8 AWG
271 - 380	NOTE B	MIN. #8 AWG
>380	NOTE B	NOTE B

A. THESE ARE BASED ON MAXIMUM LENGTH OF CIRCUIT.

B. PERFORM VOLTAGE DROP CALCULATIONS AND PROVIDE CONDUCTOR SIZE TO KEEP BRANCH CIRCUIT VOLTAGE DROP LESS THAN 3% WITH A 15 AMP LOAD.

C. CONTRACTOR SHALL ENSURE THAT THE INSTALLATION OF EACH BRANCH CIRCUIT STAYS WITHIN 3% VOLTAGE DROP FOR A 15 AMP LOAD. IF NECESSARY,CONTRACTOR SHALL INCREASE WIRE AND CONDUIT SIZE TO MEET THE STANDARD AT NO ADDITIONAL COST TO OWNER.

DEMOLITION NOTES

1. COORDINATE ALL NEW ELECTRICAL EQUIPMENT REQUIREMENTS AND MAKE CONNECTION TO EXISTING SYSTEMS. THIS INCLUDES LIGHTING, POWER, SIGNAL, RACEWAY AND OTHER SYSTEMS INCLUDED UNDER DIVISION 26 (16).
2. RELOCATE, REWIRE AND/OR RECONNECT EXISTING ELECTRICAL DEVICES AND/OR EQUIPMENT THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION.
3. CONCEAL ALL RACEWAY AND WIRING IN EXISTING WALLS, CEILINGS, FLOORS, ETC. EXCEPT WHERE THE USE OF SURFACE METAL RACEWAYS (E.G. WIRE MOLD) IS INDICATED ON DRAWINGS OR IN SPEC.
4. LEAVE ALL EXISTING EQUIPMENT, IN PORTIONS OF THE BUILDING NOT BEING REMODELED, IN WORKING CONDITION. RESTORE ALL INTERRUPTED BRANCH CIRCUITS, FEEDERS, ETC. TO WORKING CONDITION.
5. EXISTING RACEWAYS MAY BE REUSED (IN PLACE) WHERE POSSIBLE, AND WHERE IN COMPLIANCE WITH THE SPECIFICATIONS AND THE INTENT OF THE CONTRACT DOCUMENTS. INSURE INTEGRITY OF EXISTING RACEWAY BEFORE REUSE.
6. REMOVE ALL RACEWAYS, CONDUCTORS, BOXES, DEVICES, EQUIPMENT, ETC. THAT ARE NOT TO BE REUSED.
7. REMOVE EXISTING LIGHT FIXTURES WHICH ARE NOT TO BE REUSED, PLACE IN CARTON, LABEL APPROPRIATELY, AND RETURN TO OWNER, OR PROPERLY DISPOSE OF FIXTURES THAT THE OWNER CHOOSES NOT TO KEEP.
8. DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC.
9. DISCONNECT AND RECONNECT ANY/ALL FIXTURES, DEVICES, EQUIPMENT, ETC. REQUIRED FOR PROPER COMPLETION OF THE WORK.

SHEET INDEX

SYMBOL SCHEDULE

NOTES:

1. SEE FIXTURE SCHEDULE FOR TYPE, MOUNTING AND WATTAGE.
2. HEIGHT MEASURED TO CENTER LINE OF THE BOX FROM THE FINISHED FLOOR.
3. REFER TO DRAWINGS FOR DIRECTIONAL ARROWS.
4. SUBSCRIPT INDICATES FIXTURES TO BE CONTROLLED.
5. NEMA TYPE 'ND' NON-FUSED UNLESS NOTED 'F' (FUSED). USE 'HD' 480 V.
6. HEIGHT MEASURED TO TOP OF THE BOX FROM FINISHED FLOOR.
7. PROVIDE H.O.A. AND S.S. PUSHBUTTONS AS REQUIRED.
8. DOUBLE ARROWS INDICATES A DOUBLE FACE UNIT.
9. DEVICES NOTED WITH AN 'A' INDICATE TO COORDINATE WITH MILLWORK SHOP DRAWINGS AND ELEVATIONS FOR HEIGHT.
10. SUBSCRIPT INDICATES NEMA CONFIGURATION.
11. SOLID BOX AROUND DEVICE INDICATES INSTALLED IN FLOOR. DASHED BOX AROUND DEVICE INDICATES INSTALLED IN CEILING.
12. COORDINATE WITH DOOR HARDWARE SUPPLIER.
13. FOR WATER COOLER LOCATION, SEE DIAGRAM R002. FOR ALL OTHER LOCATIONS, MOUNT AT +16" TO BOTTOM OF BOX FROM FINISHED FLOOR, OR AS NOTED.
14. ARROWS SHOWN ON DEVICE INDICATE SENSOR AIMING DIRECTION.
15. CAMERA NUMBERS ARE SHOWN INSIDE THE CAMERA SYMBOL. CAMERA TYPES ARE INDICATED IN TAG.
16. MOUNT ON TRACK OF OVERHEAD DOOR, 6" FROM TOP OF DOOR, UNLESS OVERHEAD DOOR IS A ROLL UP DOOR, THEN MOUNT PER MANUFACTURER'S INSTRUCTIONS.
17. INSTALL DEVICES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
18. DASHED LINE INDICATES EQUIPMENT CLEARANCES. ARROW INDICATES FRONT OF RACK.
19. SPEAKER TO BE MOUNTED IN HORIZONTAL POSITION.
20. MOUNTING HEIGHT IS TO BOTTOM OF DISPLAY.

*TYPICAL SYMBOL SCHEDULE. SOME SYMBOLS MAY NOT BE USED ON THIS SET OF DRAWINGS.

STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS

SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES	SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES
GENERAL							
	CONDUIT RUN CONCEALED IN WALL OR CEILING				EQUIPMENT PANEL, SEE DRAWINGS	+72"	6.
	CONDUIT RUN CONCEALED IN FLOOR OR GROUND				CABLE TRAY	AS NOTED	
	CONDUIT UP				GROUND BUS BAR	+18"	6.
	CONDUIT DOWN			X	LIGHT FIXTURE (LETTER DESIGNATES TYPE)		
	CONDUIT STUB LOCATION	CAP CONDUIT		X X	EQUIPMENT NUMBER		
	CONDUIT / CIRCUIT CONTINUATION			X	ARCHITECTURAL ROOM NUMBER		
X	DEVICE / EQUIPMENT (TEXT DESIGNATES TYPE) SEE SCHEDULE / LEGEND			X	DEVICE / EQUIPMENT (TEXT DESIGNATES TYPE) SEE SCHEDULE		
MULTIPLE SYSTEM SYMBOLS							
R	RECEPTACLE SWITCH PACK	ABOVE CEILING		J F	JUNCTION BOX ('F' IN FLOOR)	AS NOTED	
	DUPLEX RECEPTACLE UPPER OUTLET SWITCH CONTROLLED	+18" OR AS NOTED	2. 9.		MOTOR OUTLET	TO SUIT EQUIP.	2.
	SIMPLEX RECEPTACLE	+18" OR AS NOTED	2. 9.		PUSHBUTTON	+46"	2.
	DUPLEX RECEPTACLE	+18" OR AS NOTED	2. 9. 11.		NON-FUSED DISCONNECT SWITCH	+60"	5. 6.
A	DUPLEX RECEPTACLE		9.	F	FUSED DISCONNECT SWITCH	+60"	5. 6.
G	5mA GFCI CIRCUIT BREAKER PROTECTED RECEPTACLE		13.	B	BREAKER DISCONNECT SWITCH	+60"	5. 6.
WP	WEATHERPROOF RECEPTACLE	+24" OR AS NOTED	2. 9.	$	SINGLE POLE SWITCH	+46"	2. 4.
	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE	+18" OR AS NOTED	2. 9.	$T	MANUAL STARTER THERMAL OVERLOAD SWITCH WITH PILOT LIGHT	+46"	2.
	DUPLEX RECEPTACLE EMERGENCY POWER (RED)	+18" OR AS NOTED	2. 9. 11.		MAGNETIC STARTER	+60"	6. 7.
	FOURPLEX RECEPTACLE	+18" OR AS NOTED	2. 9. 11.		MAGNETIC STARTER / DISCONNECT COMBINATION	+60"	6. 7.
	GROUND FAULT INTERRUPTER FOURPLEX RECEPT	+18" OR AS NOTED	2. 9.	VFD	VARIABLE FREQUENCY DRIVE	+66"	6.
LIGHTING							
	CEILING LIGHT FIXTURE	CEILING	1.	PP	POWER PACK	ABOVE CEILING	SEE DIAGRAM, SPEC.
	WALL LIGHT FIXTURE	AS NOTED	1.	RC X	DIGITAL ROOM CONTROLLER (SUBSCRIPT INDICATES NUMBER OF RELAYS)	ABOVE CEILING	SEE DIAGRAM, SPEC.
	RECESSED DOWNLIGHT FIXTURE	CEILING	1.	EP	EMERGENCY LIGHTING CONTROL UNIT	ABOVE CEILING	SEE DIAGRAM, SPEC.
	RECESSED WALL-WASH DOWNLIGHT FIXTURE	CEILING	1.	$3	THREE-WAY SWITCH	+46"	2. 4.
	LIGHT FIXTURE	AS NOTED	1.	$4	FOUR-WAY SWITCH	+46"	2. 4.
	EGRESS LIGHT FIXTURE	AS NOTED	1.	$K	KEY OPERATED SWITCH	+46"	2. 4.
	AREA LIGHT POLE AND FIXTURE	CONCRETE BASE	1. SEE DIAGRAM	$P	SWITCH WITH PILOT LIGHT	+46"	2. 4.
	BOLLARD	CONCRETE BASE	1.	$D	VARIABLE INTENSITY SWITCH	+46"	2. 4.
	STEP LIGHT FIXTURE	AS NOTED	1.	$TM	TIMER SWITCH	+46"	2. 4.
	IN-GRADE LIGHT FIXTURE	CONCRETE BASE	1.	$	MOMENTARY CONTACT SWITCH	+46"	2. 4.
	FLOOD OR TRACK FIXTURE	AS NOTED	1.	X	LOW VOLTAGE WALLSTATION (SUBSCRIPT INDICATES CONFIGURATION & CONTROL SEQUENCE)	+46"	2. SEE DIAGRAM, SPEC.
	CEILING / WALL MOUNTED EXIT LIGHT	CEILING/ AS NOTED	1. 3. 8.		DUAL TECH. CEILING MOUNTED OCCUPANCY SENSOR (PROVIDE WITH ALL PP AND ROOM CONTROLLERS)	CEILING	SEE DIAGRAM, SPEC.
	EMERGENCY LIGHT FIXTURE	AS NOTED	1.		DUAL TECH. WALL MOUNTED OCCUPANCY SENSOR (SUBSCIPT D = DIMMING AND DAYLIGHT CONTROL)	+46"	2. 4. SEE DIAGRAM, SPEC.
	COMBO EXIT / EMERGENCY LIGHT FIXTURE	AS NOTED	1.	P	PHOTO-ELECTRIC CONTROL (LOCATE ON ROOF, FACE NORTH)	AS NOTED	MOUNT AS PER MFR.
TC	TIME CLOCK	+60"	2.		DIGITAL DAYLIGHT SENSOR	CEILING	SEE DIAGRAM, SPEC.
POWER	**ALL 120V RECEPTACLES SHALL BE CONSIDERED TAMPERPROOF**						
IG	ISOLATED GROUND RECEPTACLE	+18" OR AS NOTED	2. 9.	J	PLUGMOLD	+46" OR AS NOTED	2. SEE SPEC.
U	DUPLEX RECEPTACLE WITH USB OUTLET	+18" OR AS NOTED	2. 9.	DP	FLAT PANEL DISPLAY WALL BOX TVSS RECEPT., DATA AND OTHER DEVICES, REFER TO DIAGRAMS	AS NOTED	SEE DIAGRAM, SPEC. 26 2726
	CONTROLLED DUPLEX RECEPTACLE	+18" OR AS NOTED	2. 9.	CP	CEILING PROJECTION SYSTEM CEILING BOX	ABOVE CEILING	SEE DIAGRAM, SPEC.
	FOURPLEX RECEPTACLE EMERGENCY POWER (RED)	+18" OR AS NOTED	2. 9. 11.		DOORBELL CHIME	+90"	2.
	CONTROLLED FOURPLEX RECEPTACLE	+18" OR AS NOTED	2. 9.	FB	FLOOR BOX - SEE SCHEDULE	FLOOR	SEE DIAGRAM, SPEC.
	TVSS PROTECTED RECEPTACLE	+18" OR AS NOTED	2. 9.	PT	POKE THRU - SEE SCHEDULE	FLOOR	SEE DIAGRAM, SPEC.
	SPECIAL PURPOSE OUTLET	+18" OR AS NOTED	2. 10. W/ CAP.		PANELBOARD	+72"	6.
	EQUIPMENT 4-POST RACK / CABINET	AS NOTED	18. SEE SPEC.		MAIN DISTRIBUTION PANEL		
	EQUIPMENT 2-POST RACK	AS NOTED	18. SEE SPEC.		TELEPHONE DEMARCATION BOARD		
M	UTILITY METER / CT CABINET	+72"	6.	CLG	EQUIPMENT CEILING RACK	CEILING	
TELECOMMUNICATIONS/SECURITY							
W	WALL PHONE	+60" OR AS NOTED	2.	WAP WAP	WIRELESS ACCESS POINT, TWO CABLES SOLID = WALL, DASHED = CEILING	WALL / CEILING	11.
	DATA OUTLET, ONE CABLE	+18" OR AS NOTED	2. 9. 11.	###	IP CAMERA - DATA OUTLET, ONE CABLE	AS NOTED	14. 15.
	DATA OUTLET, TWO CABLES	+18" OR AS NOTED	2. 9. 11.	X	DATA OUTLET, "X" INDICATES QUANTITY	+18" OR AS NOTED	2. 9. 11.
	DATA OUTLET, THREE CABLES	+18" OR AS NOTED	2. 9. 11.		TELEVISION OUTLET	+18" OR AS NOTED	9. 11.

COLOR LEGEND

LIGHTING FIXTURES	POWER DEVICES	AUDIOVISUAL
LIGHTING DEVICES	TELECOMMUNICATIONS	SECURITY
POWER EQUIPMENT	FIRE ALARM	NURSECALL
CABLE TRAY	CONDUIT	

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SEAL
PROFESSIONAL ENGINEER 8/18/2022 BRIAN HICKS No. 7709037-2202 STATE OF UTAH

MHTN PROJECT NO. 2022539

Original drawing is 30 x 42. Do not scale contents of this drawing.

REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

NO.	DATE	DESCRIPTION

ISSUE
CONSTRUCTION DOCUMENTS
AUG. 18, 2022

SHEET NAME
SYMBOLS, SCHEDULES, AND NOTES

SHEET NUMBER
E001

RETURN TO INDEX

ALUMINUM CONDUCTOR & CONDUIT SCHEDULE

TYPE	AMP.	COND. SIZE	CONDUCTOR QUAN.	CONDUCTOR SIZE	INSULATION	EQ. GND COND.(AL)
31X	120	2"	3	1/0	XHHW-2	4
41X	120	2"	4	1/0	XHHW-2	4
51X	96	2"	5*	1/0	XHHW-2	4
32X	135	2"	3	2/0	XHHW-2	4
42X	135	2"	4	2/0	XHHW-2	4
52X	108	2"	5*	2/0	XHHW-2	4
33X	155	2"	3	3/0	XHHW-2	4
43X	155	2"	4	3/0	XHHW-2	4
53X	124	3"	5*	3/0	XHHW-2	4
34X	180	2"	3	4/0	XHHW-2	4
44X	180	3"	4	4/0	XHHW-2	4
54X	144	3"	5*	4/0	XHHW-2	2
325	205	2"	3	250	XHHW-2	2
425	205	3"	4	250	XHHW-2	2
525	164	3"	5*	250	XHHW-2	2
330	230	3"	3	300	XHHW-2	2
430	230	3"	4	300	XHHW-2	2
530	184	3"	5*	300	XHHW-2	2
335	250	3"	3	350	XHHW-2	2
435	250	3"	4	350	XHHW-2	2
535	200	3"	5*	350	XHHW-2	2
340	270	3"	3	400	XHHW-2	2
440	270	3"	4	400	XHHW-2	2
540	216	3"	5*	400	XHHW-2	2
350	310	4"	3	500	XHHW-2	1
450	310	4"	4	500	XHHW-2	1
550	248	4"	5*	500	XHHW-2	1
375	385	4"	3	750	XHHW-2	1
475	385	4"	4	750	XHHW-2	1
575	308	4"	5*	750	XHHW-2	1

ALUMINUM CONDUCTOR & CONDUIT SCHEDULE FOR PARALLEL RUNS

TYPE	MAX. O.C. PROT.	COND. AMPS	SETS	CONDUCTOR QUAN.	CONDUCTOR SIZE	CONDUIT SIZE	EQ. GND. COND.(AL)
325-2	400	410	2	3	250	2-1/2"	2/0
425-2	400	410	2	4	250	2-1/2"	2/0
535-2	600	400	2	5*	350	3"	2/0
350-2	600	620	2	3	500	3"	2/0
450-2	600	620	2	4	500	3"	2/0
535-3	600	600	3	5*	350	3"	2/0
340-3	800	810	3	3	400	2-1/2"	3/0
440-3	800	810	3	4	400	3"	3/0
535-4	800	800	4	5*	350	4"	3/0
375-3	1000	1155	3	3	750	4"	4/0
475-3	1000	1155	3	4	750	4"	4/0
535-5	1000	1000	5	5*	350	4"	4/0
350-4	1200	1240	4	3	500	4"	250
450-4	1200	1240	4	4	500	4"	250
550-5	1200	1240	5	5*	500	4"	250
340-6	1600	1620	6	3	400	4"	350
440-6	1600	1620	6	4	400	4"	350
550-7	1600	1736	7	5*	500	4"	350
475-6	2000	2310	6	4	750	4"	400
475-7	2500	2695	7	4	750	5"	600
475-8	3000	3080	8	4	750	5"	600
475-11	4000	4235	11	4	750	5"	750

NOTES:
IN PARALLEL RUNS SIZE GND. COND. IN ACCORDANCE WITH NEC PARA. 250-122.

GND. CONDUCTOR MAY BE DELETED ON SERVICE ENTRANCE CONDUCTORS

* 200% NEUTRAL, DERATED TO 80% BASED ON NEC 310.15.B(5)(C)

** COPPER CONDUCTOR (XHHW)

PROVIDE COMPACT STRANDED ALUMINUM ASSOCIATION 8000 SERIES ALLOY CONDUCTORS.

PROVIDE TERMINATION FOR ALUMINUM ALLOY CONDUCTORS OF HYDRAULIC COMPRESSION TYPE ONLY, LISTED UNDER UL 486-B, MARKED "AL7CU" FOR 75 DEGREE RATED CIRCUITS.

PROVIDE ALL ELECTRICAL EQUIPMENT WITH PROPER SIZING TO ACCOMMODATE ALUMINUM CONDUCTORS. COORDINATE WITH EQUIPMENT SUPPLIER.

EQUIPMENT SCHEDULE

CONNECTION TYPE NOTES:

1. NON-FUSED DISCONNECT SWITCH
2. FUSED DISCONNECT SWITCH
3. BREAKER IN ENCLOSURE
4. MANUAL STARTER WITH THERMAL OVERLOAD
5. MAGNETIC STARTER
6. MAGNETIC STARTER/NON-FUSED DISCONNECT COMBINATION
7. MAGNETIC STARTER/FUSED DISCONNECT COMBINATION
8. MAGNETIC STARTER/BREAKER COMBINATION
9. VARIABLE FREQUENCY DRIVE
10. REDUCED VOLTAGE STARTER
11. DIRECT CONNECTION
12. RECEPTACLE/SPECIAL PURPOSE OUTLET/ETC.
13. TWO-SPEED STARTER. COORDINATE WITH MOTOR TYPE
14. SOLID STATE SOFT-STARTER

RESPONSIBILITY LEGEND:

A. FURNISHED, INSTALLED AND CONNECTED UNDER DIVISION 26(16)
B. FURNISHED AND INSTALLED UNDER ANOTHER DIVISION. REQUIRED CONNECTION UNDER DIVISION 26(16)
C. FURNISHED UNDER ANOTHER DIVISION BUT INSTALLED AND CONNECTED UNDER DIVISION 26(16)
D. FURNISHED, INSTALLED AND CONNECTED UNDER ANOTHER DIVISION

CB = CIRCUIT BREAKER

NOTE 1: PER 250.122(A), EQUIPMENT GROUND IS NOT REQUIRED TO BE LARGER THAN THE PHASE CONDUCTOR
NOTE 2: OVERCURRENT PROTECTION DEVICE (OCPD) SHOWN IS LOCATED AT POWER PANEL. ALL FUSING TO BE SIZED IN ACCORDANCE WITH FUSE MFR RECOMMENDATION FOR MOTOR NAME PLATE RATING.
NOTE 3: ALL EQUIPMENT TO BE RATED FOR THE ENVIRONMENT FOR WHICH IT IS INSTALLED.

UNIT	#	DESCRIPTION	ELECTRICAL EQUIPMENT INFORMATION: LOAD HP	FLA	MCA	VA	VOLTAGE	PHASE	FULL LOAD AMPS	CONDUIT SIZE	WIRE SETS	QTY	SIZE	EQ. GROUND	OCPD TYPE	AMPS	STARTER/ DISC/ VFD OTHER (SEE NOTES)	REMARKS
		MOTORIZED DOOR	0.00	0 A	0 A	1176 VA	120 V	1	10 A	3/4"	1	2	12	12	CB	15 A	4 A	
CP	1	CIRCULATION PUMP	0.17	0 A	0 A	0 VA	120 V	1	4 A	3/4"	1	2	12	12	CB	15 A	11 A	
EF	1	EXHAUST FAN	0.00	1.1 A	0 A	0 VA	120 V	1	1 A	3/4"	1	2	12	12	CB	15 A	4 A	
EF	2	EXHAUST FAN	0.00	1.1 A	0 A	0 VA	120 V	1	1 A	3/4"	1	2	12	12	CB	15 A	4 A	
EF	3	EXHAUST FAN	0.00	0 A	0 A	100 VA	120 V	1	1 A	3/4"	1	2	12	12	CB	15 A	4 A	
EH	1	ELECTRIC HEATER	0.00	0 A	0 A	1000 VA	120 V	1	8 A	3/4"	1	2	12	12	CB	15 A	12 A	
HT	1	HEAT TAPE	0.00	0 A	0 A	180 VA	120 V	1	2 A	3/4"	1	2	12	12	CB	15 A	12 A	
WH	1	WATER HEATER	0.00	0 A	0 A	4500 VA	240 V	1	19 A	3/4"	1	2	10	10	CB	30 A	12 A	

PANELBOARD SCHEDULE

PANEL: BBP **TYPE:** Type 1 **VOLTS:** 120/240 **PHASE:** 1 **WIRES:** 3

LOCATION: ELECTRICAL A103
FED FROM: TC
MOUNTING: SURFACE
BUSSING: ALUMINUM

MAINS/BUS AMPS: 125
MAIN DISC. TYPE: MCB
MAIN DISC. TRIP: 125

LUGS: Standard
X DOOR-IN-DOOR
___ 200% NEUTRAL
___ ISO GROUND
X SPD

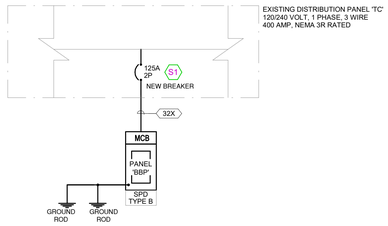
BRANCH BREAKERS

ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	A	B	A	B	CIR. NO.	WIRE SIZE	POLE	AMPS	ITEM
FRIDGE*	20 A	1	#12	1	180 VA		638 VA		2	#10	1	20 A	SOUTH DUGOUT RECEPT
ANNOUNCER BOOTH RECEPT	20 A	1	#12	3		180 VA		2000 VA	4	#10	1	25 A	EH-1 (LEVEL 2)
ANNOUNCER BOOTH RECEPT	20 A	1	#12	5	360 VA		264 VA		6	#12	1	20 A	EF-1/EF-2
ANNOUNCER BOOTH RECEPT	20 A	1	#12	7		360 VA		791 VA	8	#12	1	20 A	LIGHTING
ANNOUNCER BOOTH RECEPT	20 A	1	#12	9	360 VA		299 VA		10	#12	1	20 A	LIGHTING
ANNOUNCER BOOTH RECEPT	20 A	1	#12	11		360 VA		100 VA	12	#12	1	20 A	EF-3
ANNOUNCER BOOTH RECEPT	20 A	1	#12	13	360 VA		528 VA		14	#12	1	20 A	CP-1/CP-2
ANNOUNCER BOOTH RECEPT	20 A	1	#12	15		360 VA		2250 VA	16	#10	2	30 A	WH-1
ANNOUNCER BOOTH RECEPT	20 A	1	#12	17	900 VA		2250 VA		18	--	--	--	--
ANNOUNCER BOOTH RECEPT	20 A	1	#12	19		360 VA		180 VA	20	#12	1	20 A	RECEPT
ANNOUNCER BOOTH RECEPT	20 A	1	#12	21	360 VA		300 VA		22	#8	2	20 A	EXISTING SCOREBOARD
ANNOUNCER BOOTH RECEPT	20 A	1	#12	23		540 VA		300 VA	24	--	--	--	--
ANNOUNCER BOOTH RECEPT	20 A	1	#12	25	500 VA		1176 VA		26	#12	1	20 A	MOTORIZED DOOR
ANNOUNCER BOOTH RECEPT	20 A	1	#12	27		500 VA		1176 VA	28	#12	1	20 A	MOTORIZED DOOR
NORTH DUGOUT RECEPT	20 A	1	#10	29	998 VA		180 VA		30	#12	1	20 A	**NT-1
SPARE	20 A	1	--	31		0 VA		1000 VA	32	#12	1	20 A	EH-1 (STORAGE)
SPARE	20 A	1	--	33	0 VA		1000 VA		34	#12	1	20 A	EH-1 (RESTROOMS)
SPARE	20 A	1	--	35		0 VA		1000 VA	36	#12	1	20 A	EH-1 (TOILET A105)
SPARE	20 A	1	--	37	0 VA		1000 VA		38	#12	1	20 A	HAND DRYER
SPARE	20 A	1	--	39		0 VA		1000 VA	40	#12	1	20 A	HAND DRYER
SPARE	20 A	1	--	41	0 VA		1000 VA		42	#12	1	20 A	EH-1 (CONCESSIONS)
					12653	12457	**TOTAL (VA)**						**CONNECTED LOAD TOTAL**
					105 A	104 A	**AMPS/PHASE**						25110 VA

AIC RATING: 686 **AMPS RMS SYSM.**

NOTES:

* PROVIDE 5mA GFCI CIRCUIT BREAKER
** PROVIDE 30mA GFCI CIRCUIT BREAKER



PARTIAL ONE-LINE DIAGRAM

LIGHT FIXTURE SCHEDULE

LIGHT FIXTURE ABBREVIATION SCHEDULE

A.F.F.	ABOVE FINISH FLOOR	SCBA	STANDARD PAINTED COLOR AS SELECTED BY THE ARCHITECT
WALL@CLG	WALL MOUNT AT CORNER OF WALL AND CEILING	CFBA	CUSTOM FINISH AS SELECTED BY THE ARCHITECT
CCBA	CUSTOM PAINTED COLOR AS SELECTED BY THE ARCHITECT	SFBA	STANDARD FINISH AS SELECTED BY THE ARCHITECT

PROJECT MANAGER: BECCA STROMBERG

LIGHT FIXTURE GENERAL NOTES

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF LIGHT FIXTURES AND, CONFIRM CEILING TYPES WITH LIGHT FIXTURE TRIMS. BRING ALL DISCREPANCIES OF LOCATIONS AND QUANTITIES TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO BIDDING.
2. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPENCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.
3. REFER TO THE SPECIFICATIONS FOR OTHER LIGHT FIXTURE, FUSING, LED DRIVERS, AND LAMP REQUIREMENTS AND ACCEPTABLE MANUFACTURERS.
4. CONFIRM AVAILABLE MOUNTING DEPTHS OF ALL LIGHT FIXTURES AND COMPARE WITH DEPTHS SHOWN ON SHOP DRAWINGS. BRING ALL POTENTIAL CONFLICT AREAS TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO RELEASE.
5. REFER TO LIGHTING PLANS FOR ALL LINEAR FIXTURE LENGTHS. THE CATALOG NUMBER IS BASED ON THE FIXTURE SPECIFIED AND MAY NOT REFLECT THE QUANTITY OR OVERALL LENGTH OF LINEAR FIXTURES REQUIRED. CONTRACTOR TO NOTE THAT VARIOUS FIXTURE LENGTHS MAY BE REQUIRED TO ACHIEVE THE OVERALL RUN LENGTH.
6. REFER TO LIGHTING PLANS FOR ALL UNDERCABINET FIXTURE LENGTHS. THE CATALOG NUMBER IS BASED ON THE FIXTURE SPECIFIED AND MAY NOT REFLECT THE QUANTITY OR OVERALL LENGTH OF THE UNDERCABINET FIXTURES REQUIRED. CONTRACTOR TO NOTE THAT VARIOUS FIXTURE LENGTHS MAY BE REQUIRED TO ACHIEVE THE OVERALL RUN LENGTH OR TO FIT WITHIN THE MILLWORK. COORDINATE FIXTURE LAYOUT WITH MILLWORK SHOP DRAWINGS PRIOR TO LIGHTING SUBMITTALS.
7. WHEN A CONTRADICTION EXISTS BETWEEN A SPECIFIC MODEL NUMBER AND THE DESCRIPTION, NOTIFY THE ELECTRICAL ENGINEER AND/OR LIGHTING DESIGNER.
8. PRIOR APPROVALS ARE REQUIRED BEFORE BIDDING THE PROJECT AND SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER'S OFFICE AT LEAST (8) EIGHT WORKING DAYS BEFORE THE BID. PRIOR APPROVALS RECEIVED AFTER THIS TIME PERIOD SHALL BE REJECTED.
9. REFER TO SPECIFICATIONS 20 0500, 26 5100 & 26 5600 (16001, 16510 & 16551).
10. VALUE ENGINEERING CONDUCTED WITHOUT THE DESIGN TEAM IE; ARCHITECT, ENGINEER & LIGHTING CONSULTANT/DESIGNER WILL NOT BE ALLOWED, REVIEWED OR APPROVED.

TYPE	DESCRIPTION	MFR.	CATALOG #	VOLTS	TOTAL WATTS	LAMP TYPE	DELIVERED LUMENS	COLOR TEMP	CRI
EMB	THERMOPLASTIC ADJUSTABLE EM LED CLUSTER HEADS, COLOR CHOSEN BY ARCHITECT (BLACK OR WHITE); UNIVERSAL MOUNTING - WALL OR CEILING; BATTERY OPERATED	EMERGI-LITE	XX-EL-2LED	120 V	1 VA	LED	500	4100 K	82+ CRI
OL4W	4' HIGH ABUSE SURFACE MOUNTED LED FIXTURE; COMPACT AND REINFORCED HOUSING; HIGH IMPACT POLYCARBONATE LENS; WET LOCATION AND IP67 LISTED; 60,000 HOUR (L80); 5YR WARRANTY	METALUX	4VT3-LD5-5-WPC-UNV-L840-CD1-VT3-SS-SBK	120 V	44 VA	LED	5,500	4000 K	80+ CRI
OW1	ARCHITECTURAL WALL MOUNTED LED SITE LUMINARIE; DIE-CAST & EXTRUDED ALUMINUM HOUSING; TYPE III DISTRIBUTION, FULL CUTOFF; IP66 RATED; 50,000 HOUR (L70); 0-10 DIMMING; INTEGRATED PHOTOCELL, OVERRIDE SWITCH IN CONCESSIONS; ; 5 YR WARRANTY	LUMARK	AXCS3A-X-SCBA-MSP/DIM-L12-PC	120 V	27 VA	LED	3,537	4000 K	70+ CRI
OWM	ARCHIT ECTURAL WALL MOUNTED LED SITE LUMINARIE; DIE-CAST & EXTRUDED ALUMINUM HOUSING; TYPE III DISTRIBUTION, FULL CUTOFF; IP66 RATED; 50,000 HOUR (L70); 0-10 DIMMING; INTEGRATED MOTION SENSOR ON/OFF OPERARTION, NORMALLY OFF, MOTION ON FOR 15 MINUTES; WIRE GUARD; 5 YR WARRANTY	LUMARK	AXCS3A-X-SCBA-MSP/DIM-L12-WG/AXCS-MS	120 V	27 VA	LED	3,537	4000 K	70+ CRI
SD6	6" ROUND SURFACE MOUNTED LED LUMINAIRE; LOW PROFILE; MOUNTS IN STANDARD 4" DEEP OCTAGONAL JUNCTION BOX; PROVIDE JUNCTION BOX/HOUSING AS REQUIRED; 50,000 HOUR (L70); 5 YR WARRANTY; 0-10 DIMMING	HALO	SMD6R129SEWH =	120 V	15 VA	LED	1,200	4000 K	80+ CRI

SHEET KEYNOTES

S1	PROVIDE NEW BREAKER AS SHOWN WITHIN EXISTING PANELBOARD. CONTRACTOR SHALL VERIFY TYPE AND COST OF OVERCURRENT PROTECTION DEVICE AND INCLUDE THE NECESSARY COST TO PROVIDE NEW BREAKER WITHIN BID.

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SEAL

MHTN PROJECT NO. 2022539

Original drawing is 30 x 42. Do not scale contents of this drawing.

REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

NO.△	DATE	DESCRIPTION

ISSUE
CONSTRUCTION DOCUMENTS
AUG. 18, 2022

SHEET NAME
ELECTRICAL SCHEDULES & ONE-LINE

SHEET NUMBER
E002

RETURN TO INDEX

ELECTRICAL SITE DEMOLITION PLAN
SCALE = 1/16" = 1'-0"

GENERAL SHEET NOTES

1. DIVISION 26 SHALL CONFIRM EXACT LOCATION OF EXISTING AND NEW EQUIPMENT WITH OWNERS. FIXTURE LOCATIONS ARE DIAGRAMMATICALLY SHOWN ON THE DRAWINGS. EXISTING ELECTRICAL FIXTURES, DEVICES, EQUIPMENT, CIRCUITING AND/OR CIRCUITING AND/OR CONDUITS ARE NOT SPECIFIED UNLESS NOTED ON DRAWINGS. FINAL ROUTING OF THE CONDUITS, CIRCUITING AND CABLING SHALL BE DETERMINED BY THE CONTRACTOR AND CLOSELY COORDINATED WITH OWNER. ALL EXISTING CONDITIONS MUST BE VERIFIED WITHOUT EXCEPTION.
2. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING DEMOLITION DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
3. CONTRACTOR TO VERIFY THAT ALL THE EXISTING EQUIPMENT THAT IS TO REMAIN, BE REMOVED, AND RE-INSTALLED ARE IN WORKING CONDITIONS. CONTRACTOR IS TO PROVIDE OWNER WRITTEN DOCUMENTATION OF ANY ITEMS NOT IN WORKING CONDITION PRIOR TO COMMENCING WORK IN ANA AREA.
4. DURING DEMOLITION AND NEW CONSTRUCTION, THE CONTINUATION OF BUILDING SYSTEMS MAY BE NECESSARY. TRACE AND IDENTIFY EXISTING ELECTRICAL SYSTEM (POWER, LIGHTING, FIRE ALARM AND SECURITY) WIRING IN AREAS PRIOR TO DEMOLITION. ELECTRICAL CONTRACTOR SHALL DISCONNECT ALL NECESSARY EQUIPMENT TO MAKE IT SAFE FOR DEMOLITION. WHERE LIVE CIRCUITS OR FEEDERS PASS THROUGH A REMODEL AREA, CONTRACTOR SHALL MAINTAIN ELECTRIC CONTINUITY TO AND PROTECT BRANCH CIRCUITS AND/OR FEEDERS PASSING THROUGH. WHERE FEEDERS AND/OR BRANCH CIRCUITS FEED BOTH LOADS IN A REMODELED AREA AND OUTSIDE OF A REMODELED AREA, CONTRACTOR SHALL DISCONNECT AND REMOVE PORTIONS OF THE ELECTRICAL BRANCH CIRCUITS AND/OR FEEDERS WITHIN THE REMODELED AREA AND REWORK BRANCH CIRCUITS AND/OR FEEDERS TO MAINTAIN ELECTRICAL CONTINUITY TO LOADS OUTSIDE OF THE REMODELED AREA.
5. DEVICES AND EQUIPMENT TO BE DEMOLISHED SHALL BE REMOVED, INCLUDING ALL RELATED CONDUCTORS, RACEWAY, JUNCTION AND SPLICE BOXES UP TO THE PANELBOARD/SWITCHBOARD. ALL CONDUITS AND BOXES THAT ARE SURFACE MOUNTED AND NO LONGER REQUIRE ACTIVE CIRCUITS SHALL BE COMPLETELY REMOVED. DEVICES TO BE REMOVED ON DRYWALL OR PLASTER TYPE WALLS THAT ARE TO REMAIN SHALL HAVE THE WALL SURFACE PATCHED TO MATCH THE EXISTING FINISH. THE CONTRACTOR SHALL IDENTIFY ALL DEMOLISHED AND ABANDONED BRANCH CIRCUITS. THESE SHALL BE NOTED AS SPARE ON PANELBOARD SCHEDULES. THIS INCLUDES IDENTIFYING EXISTING ABANDONED AND SPARE CIRCUITS THAT ARE CURRENTLY IDENTIFIED AS USED. THE CONTRACTOR SHALL FURNISH NEW TYPED DIRECTORIES FOR ALL PANELBOARDS.
6. THE OWNER HAS THE RIGHT TO RETAIN ALL SALVAGEABLE MATERIAL. ANY MATERIAL THE OWNER CHOOSES NOT TO ACCEPT SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR.
7. FULLY COORDINATE MECHANICAL EQUIPMENT ELECTRICAL CONNECTION REMOVAL AND RELOCATION WITH THE MECHANICAL CONTRACTOR.
8. CONTRACTOR IS TO PROJECT IN PLACE ALL MECHANICAL, PLUMBING, ELECTRICAL ABOVE CEILINGS., NOT SHOWN TO BE REMOVED TO INCLUDE BUT NOR NOT LIMITED TO: NETWORK CABLING, COAX CABLING, CONDUITS, PIPING, DUCTWORK,ETC.
9. WHERE DEVICES OR EQUIPMENT IS TO BE RELOCATED, CONTRACTOR SHALL EXTEND EXISTING CIRCUITING TO NEW LOCATION. ENSURE CIRCUIT CONTINUITY FOR OTHER DEVICES OR EQUIPMENT ON THE SAME BRANCH CIRCUIT.
10. PROVIDE BLANK COVERPLATE ON ALL EXISTING BOXES LOCATED IN MASONRY THAT ARE NOT BEING RE-USED. PROVIDE BLANK COVERPLATE ON ALL UNUSED BOXES.
11. CIRCUIT #S, IF SHOWN, ARE FROM RECORD DRAWING AND SHOWN FOR REFERENCE ONLY. VERIFY EXISTING CONDITIONS PRIOR TO WORK.

SHEET KEYNOTES

D2 EXISTING BUILDING TO BE DEMOLISHED. DIVISION 26 SHALL COORDINATE ELECTRICAL DEMOLITION AND PROJECT PHASING REQUIREMENTS WITH ARCHITECTURAL, CIVIL DRAWINGS AND GENERAL CONTRACTOR. PROVIDE SELECT DEMOLITION OF ELECTRICAL APPARATUSES IN AREAS SHOWN FOR DEMOLITION. MAKE DEMOLITION AREAS SAFE AS REQUIRED. REMOVE EXISTING ELECTRICAL FEEDER, CIRCUITS, ETC, COMPLETELY BACK TO SOURCE. COORDINATE WITH ENTIRE BID DOCUMENTS FOR MORE INFORMATION.

D3 EXISTING BUILDING TO BE DEMOLISHED IF ALTERNATE IS ACCEPTED. DEMOLISH BUILDER PER SHEET KEYNOTE D2. IF ALTERNATE IS NOT ACCEPTED, PROTECT ELECTRICAL SYSTEM DURING CONSTRUCTION. RESTORE ANY AND ALL INTERRUPTED BRANCH CIRCUITS, FEEDERS, SPECIALS SYSTEMS ETC. TO WORKING CONDITIONS THAT MAY BE CAUSED BY NEW CONSTRUCTION. COORDINATE WITH ENTIRE BID DOCUMENTS FOR MORE INFORMATION.

D4 EXISTING 120/240V 1P, 125A (GE TYPE COMPATIBILITY) LOAD CENTER TO BE DEMOLISHED IF ALTERNATE IS ACCEPTED. DEMOLISH BUILDER PER SHEET KEYNOTE D2. REMOVE ANY CIRCUITS NOT UTILIZED FOR NEW CONSTRUCTION BACK TO PANELBOARD. . IF ALTERNATE IS NOT ACCEPTED, PROTECT ELECTRICAL SYSTEM DURING CONSTRUCTION. LOAD CENTER WILL BE UTILIZED TO FOR NEW CIRCUITS AT NEW DUGOUTS. ADJUST EXISTING BREAKERS AS NECESSARY WITHIN EXISTING PANELBOARD TO ALLOW FOR SPACE FOR NEW BREAKERS. PROVIDE NEW UPDATED TYPED INDEX CARD IDENTIFYING NEW AND REMAINING CIRCUITS.

D5 EXISTING SCHOOL NETWORK 6-STRAND OM3 FIBER LINK AND NETWORK SWITCH LOCATION (FIBER-FED FROM MAIN BUILDING TO SERVICE BASEBALL TOWER AND FOOTBALL FIELD). IF ALTERNATE IS ACCEPTED, REMOVE EXISTING FIBER CASSETTE AND NETWORK SWITCH ENCLOSURE, LABEL, AND RETURN TO OWNER. PULL BACK EXISTING FIBER OPTIC CABLES AND RE-ROUTE CABLES TO NEW UNDERGROUND J-BOX (UTILIZE 1-1/4â€ CONDUIT MINIMUM). LOCATE J-BOX OUTSIDE OF NEW BUILDING FOOTPRINT. RE-WORK AND SPLICE HOME-RUN FIBER WITH FOOTBALL FIELD FIBER UTILIZING A WEATHERPROOF FIBER SPLICE KIT. ADDITIONALLY, SPLICE NEW 4-STRAND FIBER TO HOME-RUN CIRCUIT AND ROUTE NEW CABLING TO NEW DATA/AV RACK WITHIN NEW ANNOUNCERS BOOTH. . SEE ENLARGED PLANS FOR LOCATION AND ADDITIONAL REQUIREMENTS.

D6 EXISTING SECURITY CAMERAS. IF ALTERNATE IS ACCEPTED, REMOVE AND PROTECT DURING DEMOLITION AND NEW CONSTRUCTION. CAMERAS TO BE RE-INSTALLED ON NEW BUILDING. SEE ENLARGED PLANS FOR NEW REQUIREMENTS AND LOCATIONS.

D7 EXISTING SCOREBOARD LOCATION TO BE RE-LOCATED. SEE NEW SITE PLAN FOR NEW LOCATION AND REQUIREMENTS.

D8 EXISTING UNDERGROUND J-BOX (ELECTRICAL). PROTECT J-BOXES AND ANY CONNECTING CONDUITS DURING CONSTRUCTION.

E1 EXISTING 120/240V 1P I.T.E. (SQUARE-D NQOB COMPATIBILITY) PANELBOARD. REMOVE ANY CIRCUITS NOT UTILIZED FOR NEW CONSTRUCTION BACK TO PANELBOARD. ADJUST EXISTING BREAKERS AS NECESSARY WITHIN EXISTING PANELBOARD TO ALLOW FOR SPACE FOR NEW BREAKERS. UTILIZE EXISTING CIRCUIT BREAKERS THAT WERE FREED DURING CONSTRUCTION WHEN NECESSARY/AVAILABLE. PROVIDE NEW UPDATED TYPED INDEX CARD IDENTIFYING NEW AND REMAINING CIRCUITS.

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SEAL
PROFESSIONAL ENGINEER
8/18/2022
BRIAN HICKS
No. 7709037-2202
STATE OF UTAH
[illegible]

MHTN PROJECT NO. 2022539
VIEW AND PRINT THIS DRAWING IN COLOR
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REVISIONS
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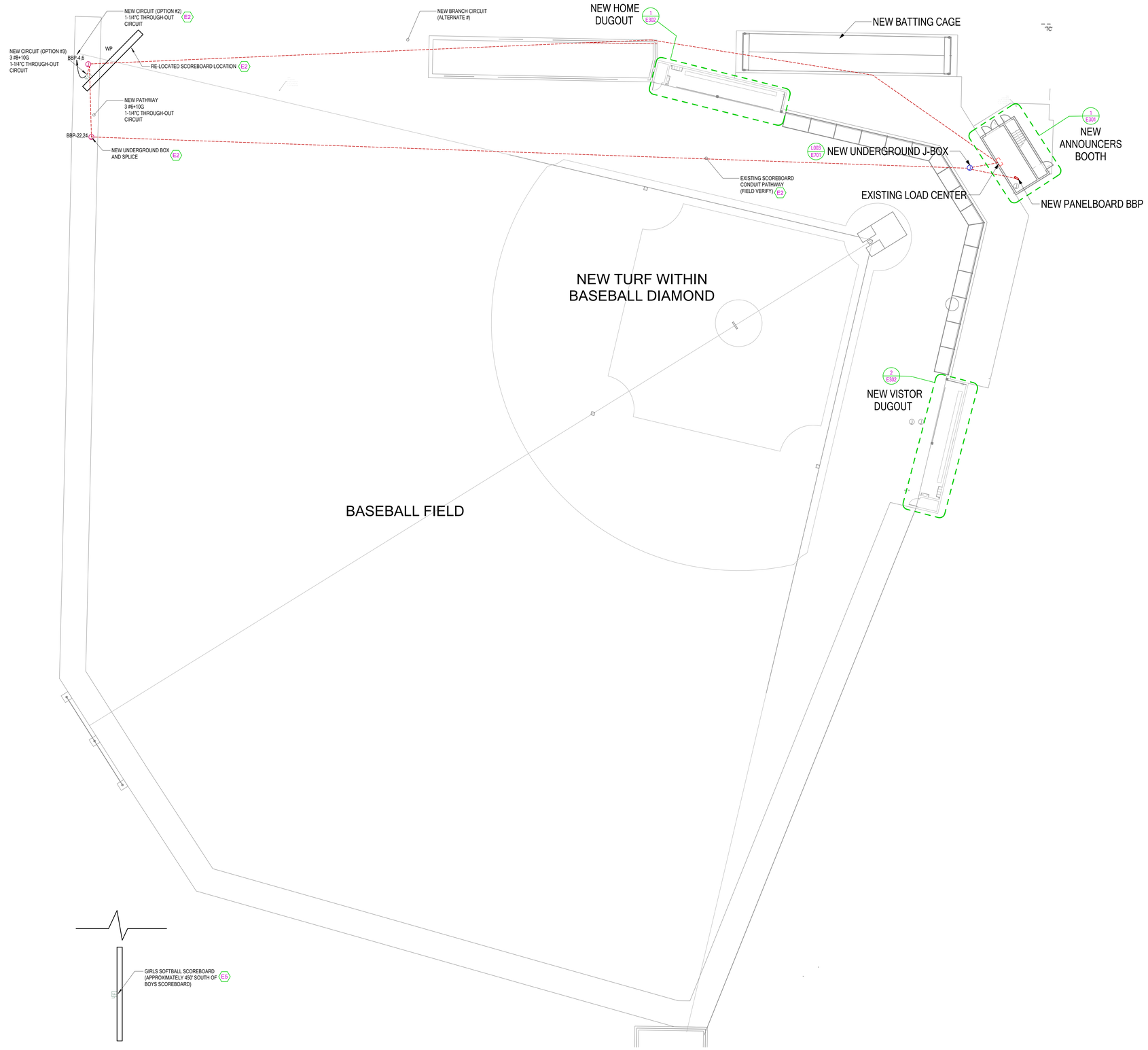
ISSUE
CONSTRUCTION DOCUMENTS
AUG. 18, 2022

SHEET NAME
ELECTRICAL SITE DEMOLITION PLAN

SHEET NUMBER
E101

RETURN TO INDEX



ELECTRICAL SITE PLAN
SCALE = 1/16" = 1'-0"

GENERAL SITE PLAN SHEET

1. DIVISION 26 SHALL VISIT THE SITE PRIOR TO BIDDING. BIDS SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS. BIDDERS SHALL EXAMINE THE SITE AND THE COMPLETE SET OF PLANS AND SPECIFICATIONS COVERING THE ENTIRE PROJECT. THEY SHALL BECOME FULLY CONVERSANT WITH THE TYPE OF GENERAL CONSTRUCTIONS AS WELL AS ALL PERTINENT FACTS AFFECTING THE COST OF CARRYING OUT THE WORK THEY WILL CONTRACT TO PERFORM. DIVISION 26 SHALL COORDINATE PROJECT PHASING WITH THE GENERAL CONTRACTOR AND BID AND PERFORM RESPONSIBILITIES FOR THIS PROJECT TO CONTRACT EXPECTATIONS.
2. ANY ELECTRICAL ROUGH-IN, EQUIPMENT AND CONDUIT PATHWAYS ARE DIAGRAMMATICALLY SHOWN ON THE DRAWINGS. FINAL ROUTING OF THE CONDUITS, CIRCUITING, AND CABLING SHALL BE DETERMINED BY THE CONTRACTOR.
3. DIVISION 26 SHALL BLUE STAKE THE AREA OF NEW CONSTRUCTION PRIOR TO EXCAVATION FOR FOOTINGS, ETC. IDENTIFY BURIED ELECTRICAL SYSTEMS(UTILITIES, POWER, COMMUNICATIONS, ETC.) AND COORDINATE LOCATIONS WITH THE GENERAL CONTRACTOR. IF EXISTING ELECTRICAL SYSTEMS ARE DISTURBED (POWER,AUXILIARY, ETC.) E.C. SHALL MAKE NECESSARY REPAIRS (AS APPROVED BY DISTRICT REPRESENTATIVE) AS PART OF THIS CONTRACT.
4. CONTRACTOR TO CLOSELY COORDINATE ALL NEW AND EXISTING DEVICE LOCATIONS WITH CIVIL DRAWINGS. CONTRACTOR TO VERIFY ALL FINAL GRADE REQUIREMENTS WITH CIVIL DRAWINGS.
5. CLOSELY COORDINATE ANY REQUIRED POWER SHUTDOWNS WITH THE GENERAL, HEAD CUSTODIAN, AND OWNER.
6. TRENCHING AND BACKFILL: LOCATE AND PROTECT EXISTING UTILITIES AND OTHER UNDERGROUND WORK IN A MANNER THAT WILL ENSURE THAT NO DAMAGE OR SERVICE INTERRUPTIONS WILL RESULT FROM EXCAVATING AND BACKFILLING. PERFORM EXCAVATION IN A MANNER THAT PROTECTS WALLS, FOOTINGS, AND OTHER STRUCTURAL MEMBERS FROM BEING DISTURBED OR DAMAGED IN ANY WAY. BURIAL DEPTHS MUST COMPLY WITH NEC SECTION 300-5 (OR STATE OF UTAH REQUIREMENTS, WHICHEVER IS MORE STRINGENT), UNLESS NOTED OTHERWISE. PATCH AND REPAIR ROADS, PARKING AREAS, SIDEWALKS, CURBS, OTHER PAVED AREAS, PLANTING AND ANY OTHER DISTURBED AREAS CAUSED BY THE ELECTRICAL CONTRACTOR DURING CONSTRUCTION.
7. BORING, TRENCHING, ASPHALT CUTTING AND PATCHWORK BY DIVISION 26. ANY CONCRETE THAT NEEDS TO BE REMOVED TO COMPLETE WORK WILL BE THE RESPONSIBILITY OF DIVISION 26. SCHEDULING OF THE TRENCHING SHALL BE COORDINATED WITH OTHER TRADES AND APPROVED BY THE OWNER.
8. CABLE RUNS SHALL BE MARKED WITH RED PLASTIC MARKING TAPE INSTALLED IN THE TRENCH ONE FOOT BELOW SURFACE. BACKFILL SHALL BE FREE OF ROCKS AND OTHER OBJECTS WHICH MIGHT DAMAGE THE CABLE.
9. TRENCHING, ASPHALT CUTTING AND PATCHWORK BY DIVISION 26. ANY CONCRETE THAT NEEDS TO BE REMOVED TO COMPLETE WORK WILL BE THE RESPONSIBILITY OF DIVISIONS. SCHEDULING OF THE TRENCHING AND INSTALLATION OF CABLE SHALL BE COORDINATED WITH OTHER TRADES AND APPROVED BY THE OWNER.
10. INSPECT ALL CONDUIT(S) WITH CAMERA TO CONFIRM THAT CONDUIT(S) HAVE NOT BEEN CRUSHED OR BROKEN. CAP OPEN ENDS OF CONDUITS AND INSTALL A 200 LB. NYLON PULL CORD IN EACH EMPTY CONDUIT RUN.
11. PROVIDE PLANS, PHOTO DOCUMENTATION AND GPS COORDINATES INDICATING THE LOCATION OF ANY AND ALL CONDUITS INTENDED FOR FUTURE USE BY OWNER. SUBMIT DOCUMENTATION WITH O&Ms.
12. CONTRACTOR TO PROVIDE PULL BOXES AS REQUIRED PER NEC AND NECESSARY TO PROVIDE SUCCESSFUL CABLE PULLS.
13. PROVIDE TEMPORARY POWER FOR PROJECT AS REQUIRED BY GENERAL CONTRACTOR.
14. LABEL ALL ELECTRICAL GEAR WITH BOTH CONSTRUCTION DRAWING-ROOM #S AND FINAL CONSUMER ROOM #'S.

SHEET KEYNOTES

E2 SCOREBOARD RELOCATION AND CIRCUITING OPTIONS. SEE EXPLANATION BOX BELOW.

E5 EXISTING GIRLS SOFTBALL SCOREBOARD TO BE REPLACED WITH NEW SCOREBOARD (BA-2005 DAKTRONICS). DISCONNECT POWER FROM EXISTING SCOREBOARD AS REQUIRED FOR REMOVAL OF ALL SCOREBOARD. MAINTAIN CIRCUIT INTEGRITY, REROUTE AND REWORK EXISTING CIRCUITRY TO NEW FUSE DISCONNECT. MOUNT TO SCOREBOARD STRUCTURE AND TERMINATE POWER TO NEW SCOREBOARD. COORDINATE ALL TERMINATION REQUIREMENTS WITH MANUFACTURER INSTRUCTIONS.

E2 SCOREBOARD RELOCATION CIRCUITING OPTION

1. IF EXISTING BASEBALLTOWER REMAINS-MAINTAIN EXISTING CIRCUITING INTEGRITY THROUGHOUT CONSTRUCTION. DISCONNECT POWER AT SCOREBOARD ROUTE CIRCUIT TO NEW GROUND BOX, SPLICE EXISTING CIRCUIT AND EXTEND CIRCUITRY/CONDUCTORS TO NEW UNDERGROUND J-BOX NEAR SCOREBOARD AS SHOWN. PROVIDE AND EXTEND EXISTING BRANCH CIRCUIT AND MOUNT WEATHERPROOF DISCONNECT SWITCH ON SCOREBOARD AND TERMINATE POWER CONNECTION AT SCOREBOARD AS REQUIRED. VERIFY EXACT LOCATION AND TERMINATION REQUIREMENTS.

2. NEW ANNOUNCER BOOTH (UTILIZE EXISTING PATHWAYS) - INTERCEPT EXISTING SCOREBOARD CIRCUIT AND CONDUIT NEAR DEMOLISHED LOAD CENTER AND RE-ROUTE INTO NEW UNDERGROUND J-BOX NEAR NEW BUILDING. PROVIDE NEW CIRCUIT FROM PANELBOARD 'BBP' AND SPLICE ONTO EXISTING CONDUCTORS. MAINTAIN EXISTING CIRCUITING INTEGRITY THROUGHOUT CONSTRUCTION. DISCONNECT POWER AT SCOREBOARD ROUTE CIRCUIT TO NEW GROUND BOX. SPLICE EXISTING CIRCUIT AND EXTEND CIRCUITRY/CONDUCTORS TO NEW UNDERGROUND J-BOX NEAR SCOREBOARD AS SHOWN. PROVIDE AND EXTEND EXISTING BRANCH CIRCUIT AND MOUNT WEATHERPROOF DISCONNECT SWITCH ON SCOREBOARD AND TERMINATE POWER CONNECTION AT SCOREBOARD AS REQUIRED. VERIFY EXACT LOCATION AND TERMINATION REQUIREMENTS.

3. NEW ANNOUNCER BOOTH (NEW CIRCUIT AND DEDUCT ALTERNATE)- IF THE USE OF EXISTING SCOREBOARD PATHWAYS AND CIRCUITY ARE DAMAGED DURING NEW CONSTRUCTION AND ARE UNREPAIRABLE, OPTION 3 SHALL BE PROVIDED. DISCONNECT POWER FROM EXISTING SCOREBOARD AND PROVIDE NEW CIRCUIT AND PATHWAY TO SCOREBOARDS NEW LOCATION. PROVIDE UNDERGROUND JUNCTION BOX NEAR SCOREBOARD AS SHOWN. PROVIDE AND EXTEND INDICATED BRANCH CIRCUIT AND MOUNT WEATHERPROOF DISCONNECT SWITCH ON SCOREBOARD AND TERMINATE POWER CONNECTION AT SCOREBOARD AS REQUIRED. VERIFY EXACT LOCATION AND TERMINATION REQUIREMENTS. (ANTICIPATE 240V 1P CONNECTION INSTEAD OF 120V)

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SEAL

MHTN PROJECT NO 2022539

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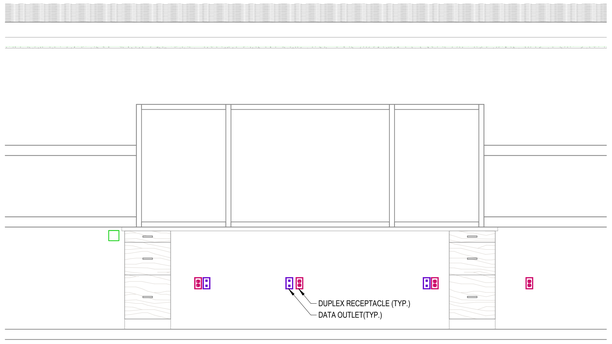
CONSTRUCTION DOCUMENTS
AUG. 18, 2022

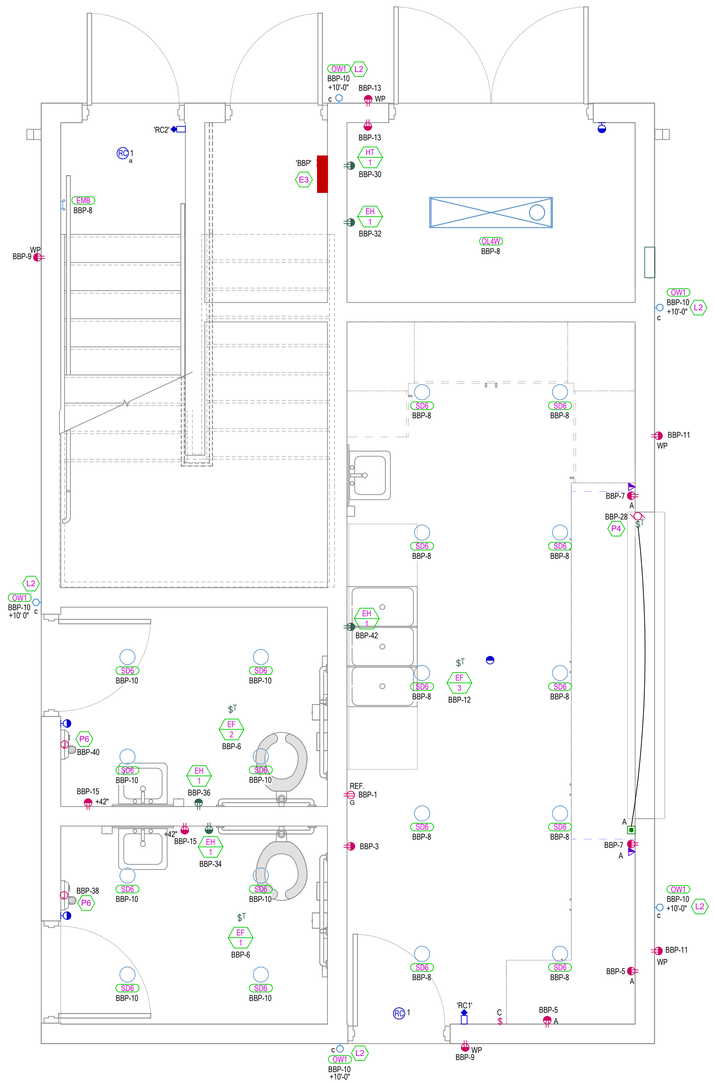
SHEET NAME
ELECTRICAL SITE PLAN

SHEET NUMBER
E102

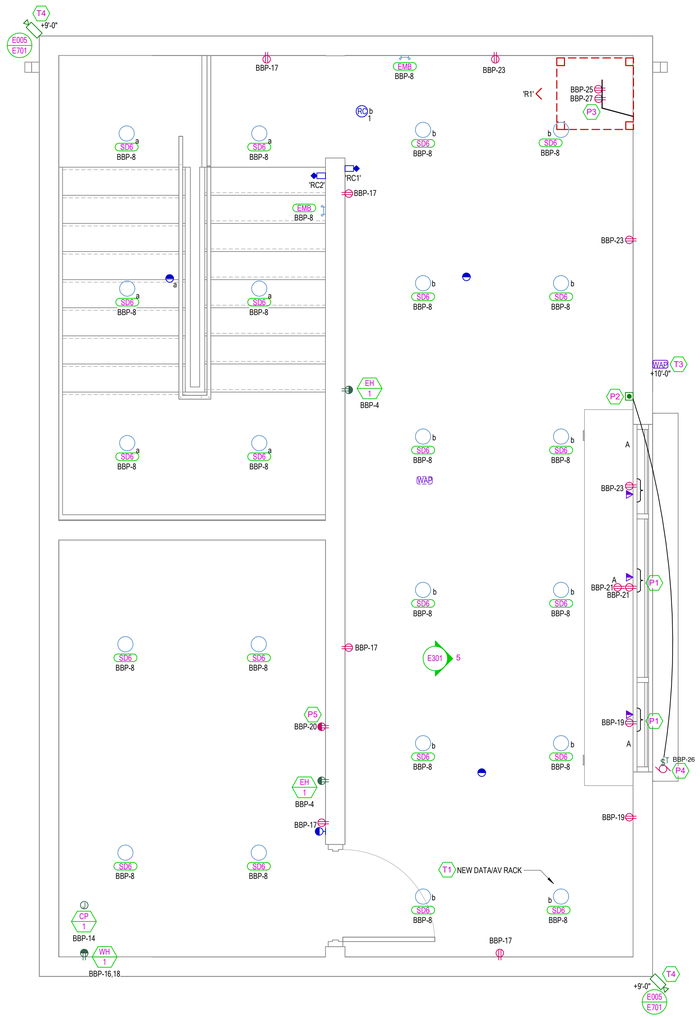
RETURN TO INDEX



5 INTERIOR ELEVATION
SCALE = 1/2" = 1'-0"



ENLARGED ELECTRICAL ANNOUNCERS BOOTH FIRST FLOOR PLAN
SCALE = 1/2" = 1'-0"



ENLARGED ELECTRICAL ANNOUNCERS BOOTH SECOND FLOOR PLAN
SCALE = 1/2" = 1'-0"

GENERAL ELECTRICAL NOTES

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ALL FIXTURE LOCATIONS WITHIN A CEILING OR CEILING GRID. FOR AREAS WITHOUT CEILINGS, FIXTURE LOCATIONS ARE DIAGRAMMATIC. THE INTENT IS TO ALIGN, CENTER, OR SPACE FIXTURES BETWEEN ARCHITECTURAL AND STRUCTURAL ELEMENTS. CONTRACTOR TO PAINT EXPOSED RACEWAY TO MATCH ADJACENT SURFACES.
2. SEE CORRESPONDING LIGHTING DIAGRAMS FOR GENERAL INSTALLATION REQUIREMENTS, CONNECTIONS, AND CABLE TYPES.
3. PROVIDE UNSWITCHED NORMAL CIRCUIT HOT LEG TO ALL EMERGENCY POWER CONTROL DEVICES FOR PROPER POWER SENSING.
4. PROVIDE UNSWITCHED HOT AHEAD OF RELAY, OCCUPANCY SENSOR, OR SWITCH TO ALL EXIT SIGNS.
5. IF SHOWN, SUBSCRIPT NEAR LIGHT FIXTURES INDICATES CONTROL INTENT. PROVIDE LIGHTING CONTROLLERS WITH THE REQUIRED NUMBER OF RELAYS/DIMMERS.
6. PROVIDE ADDITIONAL RELAYS/DIMMERS FOR DAYLIGHT ZONES AS NEEDED. PROVIDE 0-10V DIMMING FOR ALL AREAS AND/OR ROOMS WHERE 0-10V DIMMING IS INDICATED BY THE WALLSTATION CONTROL SEQUENCE AND OR BY TYPE OF CONTROL INTERFACE SHOWN.
7. PROVIDE CONDUIT FROM DEVICE TO DEVICE IN OPEN AND/OR EXPOSED CEILINGS. CEILINGS WITH CLOUDS ARE CONSIDERED OPEN/EXPOSED CEILINGS. NO EXPOSED CABLES SHALL BE SEEN FROM BELOW.
8. COORDINATE PLACEMENT OF ELECTRICAL DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN. WHERE DEVICES ARE SHOWN IN SAME WALL SPACE, ALIGN VERTICALLY AND HORIZONTALLY. COORDINATE WITH ARCHITECTURAL DRAWINGS, ATHLETIC SAFETY WALL PADDING AND CABINETRY DRAWINGS.
9. ALL THE LOW VOLTAGE WIRE/CABLE FOR LIGHTING SENSORS, AUDIO/VISUAL EQUIPMENT, SOUND AMPLIFICATION, ETC. TO BE ROUTED THROUGH CONDUIT IN EXPOSED AND CLOUDED CEILING AREAS.
10. ALL LOW VOLTAGE WIRE/CABLE FOR LIGHTING SENSORS, AUDIO/VISUAL EQUIPMENT, CLASSROOM SOUND AMPLIFICATION, ETC. TO BE PROPERLY SUPPORTED PER THE TELE/DATA SPEC. AND AT 5'-0" INTERVALS AND TO FOLLOW BUILDING STRUCTURAL LINES. PULLING WIRE DIAGONALLY ACROSS ROOMS IS NOT ALLOWED. USING CEILING SYSTEM OR LIGHT FIXTURE SUPPORT/SEISMIC WIRES FOR SUPPORT IS NOT ALLOWED.
11. PROVIDE GFCI PROTECTION ON ALL DEVICES AND EQUIPMENT PER THE NEC REQUIREMENTS. DEVICES SHALL BE READILY ACCESSIBLE. IF ANY OUTLET IS INSTALLED WITHIN 6 FEET OF OUTSIDE EDGE OF SINK, CONTRACTOR SHALL PROVIDE GFCI RECEPTACLE PER NEC, WHETHER SHOWN OR NOT.
12. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.

SHEET KEYNOTES

E3	PROVIDE NEW PANELBOARDS AS SHOWN. SEE ONE-LINE FOR MORE INFORMATION.
L2	COORDINATE FINAL LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN. MOUNT FIXTURE AWAY FROM ARCHITECTURAL FEATURE AREAS WHERE POSSIBLE.
P1	DEVICES LOCATED IN KNEESPACE OF MILLWORK. COORDINATE WITH MILLWORK SHOP DRAWINGS PRIOR TO ROUGH-IN.
P2	MOUNT DEVICE HORIZONTALLY IN WALL JUST ABOVE BACKSPLASH. COORDINATE HEIGHT AND LOCATION WITH MILLWORK AND ARCHITECTURAL ELEVATIONS.
P3	DEVICE MOUNTED BEHIND RACK. COORDINATE EXACT HEIGHT AND LOCATION WITH ARCHITECTURAL/AUDIOVISUAL ELEVATIONS AND WITH AV INSTALLER PRIOR TO ROUGH-IN. POWER, DATA AND AV JUNCTION BOXES SHALL BE INSTALLED IN THE SAME STUD CAVITY.
P4	PROVIDE ELECTRICAL CONNECTIONS TO OVERHEAD DOOR ASSEMBLY AS REQUIRED. LOCATE AND TERMINATE COMPLETELY THE DOOR CONTROLLER E.G. SWITCHES, TRANSFORMERS, TERMINAL BLOCK, # OF WIRES, ETC. PER MANUFACTURER'S RECOMMENDATIONS. VERIFY VOLTAGE AND NAMEPLATE POWER REQUIREMENTS PRIOR TO ROUGH-IN.
P5	MECHANICAL HEAT TAPE CIRCUIT. CONTRACTOR TO VERIFY EXACT LOCATION WITH STORAGE ROOM MAIN WATER LINE LOCATION ACCORDING TO MECHANICAL SHOP DRAWINGS PRIOR TO ROUGH-IN.
P6	HAND DRYER LOCATION. COORDINATE WITH ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION PRIOR TO ROUGH-IN.
T1	LOCATION OF NEW DATA/AV RACK. TERMINATE NEW FIBER AND DATA DROPS HERE. SEE SPECIFICATIONS FOR MORE INFORMATION.
T3	PROVIDE DATA DROPS FOR NEW EXTERIOR MOUNTED WAP AS SHOWN. WAP DEVICE IS FURNISHED BY THE OWNER AND INSTALLED AND CONNECTED BY DIVISION 26/27 CONTRACTORS. VERIFY EXACT LOCATION AND HEIGHT WITH OWNER PRIOR TO ROUGH-IN.
T4	RE-INSTALL EXISTING SECURITY CAMERAS. PROVIDE NEW DATA DROP TO NEW DATA/AV RACK. VERIFY EXACT LOCATION AND HEIGHT WITH OWNER PRIOR TO ROUGH-IN.

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MHTN PROJECT NO. 2022539

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REVISIONS
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ISSUE
CONSTRUCTION DOCUMENTS
AUG. 18, 2022

SHEET NAME
ENLARGED ELECTRICAL ANNOUNCER BOOTH PLANS

SHEET NUMBER
E301

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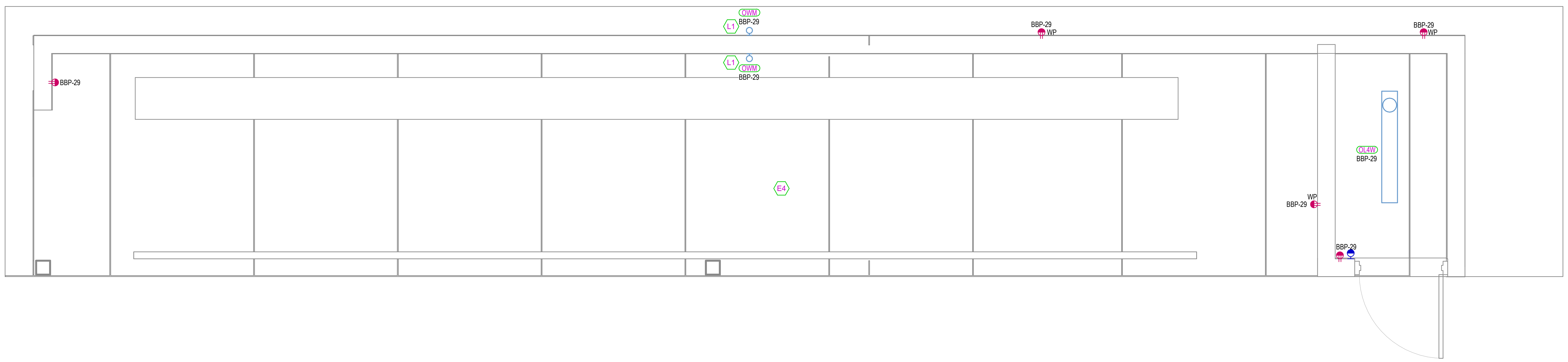
SHEET KEYNOTES

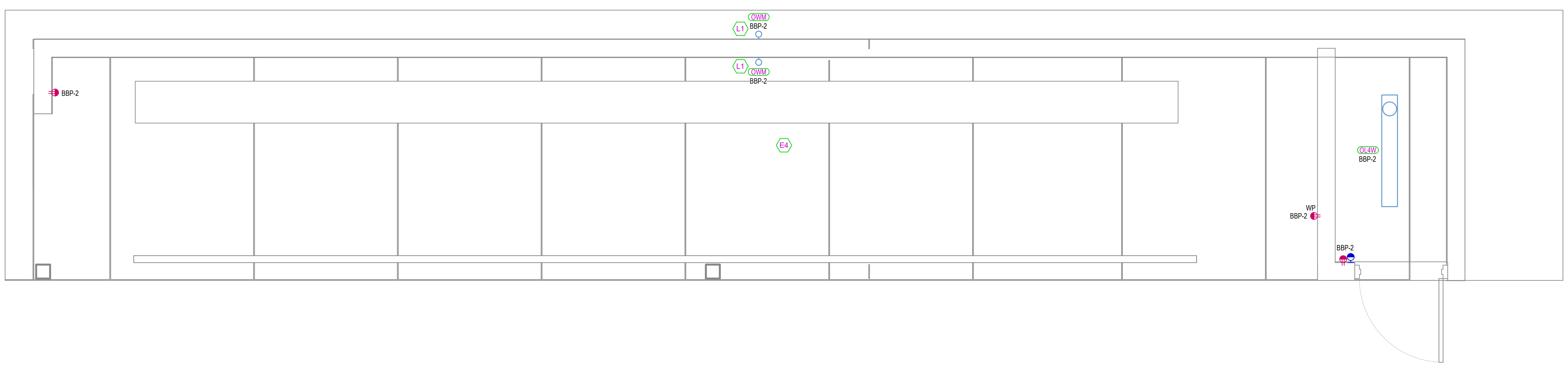
E4	IF ALTERATE IS NOT ACCEPTED AND EXISTING LOAD CENTER REMAINS. PROVIDE NEW ELECTRICAL DEVICE AND CIRCUIT/TERMINATION(S) AS SHOWN (MINIMUM OF #10 CU). PROVIDE NEW 20A 1P BREAKERS WITHIN EXISTING PANELBOARD AND TERMINATE CIRCUITS AS REQUIRED.
L1	MOUNT MOTION ACTIVED WALLPACK FIXTURE AS HIGH AS POSSIBLE. VERIFY MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.

GENERAL ELECTRICAL NOTES

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ALL FIXTURE LOCATIONS WITHIN A CEILING OR CEILING GRID. FOR AREAS WITHOUT CEILINGS, FIXTURE LOCATIONS ARE DIAGRAMMATIC. THE INTENT IS TO ALIGN, CENTER, OR SPACE FIXTURES BETWEEN ARCHITECTURAL AND STRUCTURAL ELEMENTS. CONTRACTOR TO PAINT EXPOSED RACEWAY TO MATCH ADJACENT SURFACES.
2. SEE CORRESPONDING LIGHTING DIAGRAMS FOR GENERAL INSTALLATION REQUIREMENTS, CONNECTIONS, AND CABLE TYPES.
3. PROVIDE UNSWITCHED NORMAL CIRCUIT HOT LEG TO ALL EMERGENCY POWER CONTROL DEVICES FOR PROPER POWER SENSING.
4. PROVIDE UNSWITCHED HOT AHEAD OF RELAY, OCCUPANCY SENSOR, OR SWITCH TO ALL EXIT SIGNS.
5. IF SHOWN, SUBSCRIPT NEAR LIGHT FIXTURES INDICATES CONTROL INTENT. PROVIDE LIGHTING CONTROLLERS WITH THE REQUIRED NUMBER OF RELAYS/DIMMERS.
6. PROVIDE ADDITIONAL RELAYS/DIMMERS FOR DAYLIGHT ZONES AS NEEDED. PROVIDE 0-10V DIMMING FOR ALL AREAS AND/OR ROOMS WHERE 0-10V DIMMING IS INDICATED BY THE WALLSTATION CONTROL SEQUENCE AND OR BY TYPE OF CONTROL INTERFACE SHOWN.
7. PROVIDE CONDUIT FROM DEVICE TO DEVICE IN OPEN AND/OR EXPOSED CEILINGS. CEILINGS WITH CLOUDS ARE CONSIDERED OPEN/EXPOSED CEILINGS. NO EXPOSED CABLES SHALL BE SEEN FROM BELOW.
8. COORDINATE PLACEMENT OF ELECTRICAL DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN. WHERE DEVICES ARE SHOWN IN SAME WALL SPACE, ALIGN VERTICALLY AND HORIZONTALLY. COORDINATE WITH ARCHITECTURAL DRAWINGS, ATHLETIC SAFETY WALL PADDING AND CABINETRY DRAWINGS.
9. ALL THE LOW VOLTAGE WIRE/CABLE FOR LIGHTING SENSORS, AUDIO/VISUAL EQUIPMENT, SOUND AMPLIFICATION, ETC. TO BE ROUTED THROUGH CONDUIT IN EXPOSED AND CLOUDED CEILING AREAS.
10. ALL LOW VOLTAGE WIRE/CABLE FOR LIGHTING SENSORS, AUDIO/VISUAL EQUIPMENT, CLASSROOM SOUND AMPLIFICATION, ETC. TO BE PROPERLY SUPPORTED PER THE TELE/DATA SPEC. AND AT 5'-0" INTERVALS AND TO FOLLOW BUILDING STRUCTURAL LINES. PULLING WIRE DIAGONALLY ACROSS ROOMS IS NOT ALLOWED. USING CEILING SYSTEM OR LIGHT FIXTURE SUPPORT/SEISMIC WIRES FOR SUPPORT IS NOT ALLOWED.
11. PROVIDE GFCI PROTECTION ON ALL DEVICES AND EQUIPMENT PER THE NEC REQUIREMENTS. DEVICES SHALL BE READILY ACCESSIBLE. IF ANY OUTLET IS INSTALLED WITHIN 6 FEET OF OUTSIDE EDGE OF SINK, CONTRACTOR SHALL PROVIDE GFCI RECEPTACLE PER NEC, WHETHER SHOWN OR NOT.
12. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.



1 ENLARGED ELECTRICAL NORTH DUGOUT PLAN (HOME DUGOUT)
SCALE = 1/2" = 1'-0"



2 ENLARGED ELECTRICAL SOUTH DUGOUT PLAN (VISITOR DUGOUT)
SCALE = 1/2" = 1'-0"

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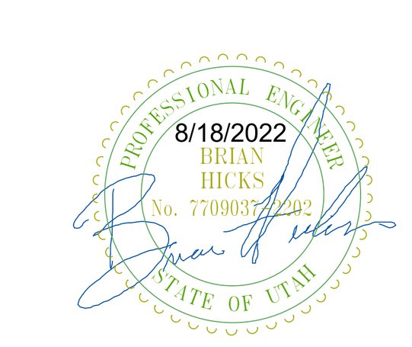

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SHEET NAME
ENLARGED ELECTRICAL DUGOUT PLANS

SHEET NUMBER
E302

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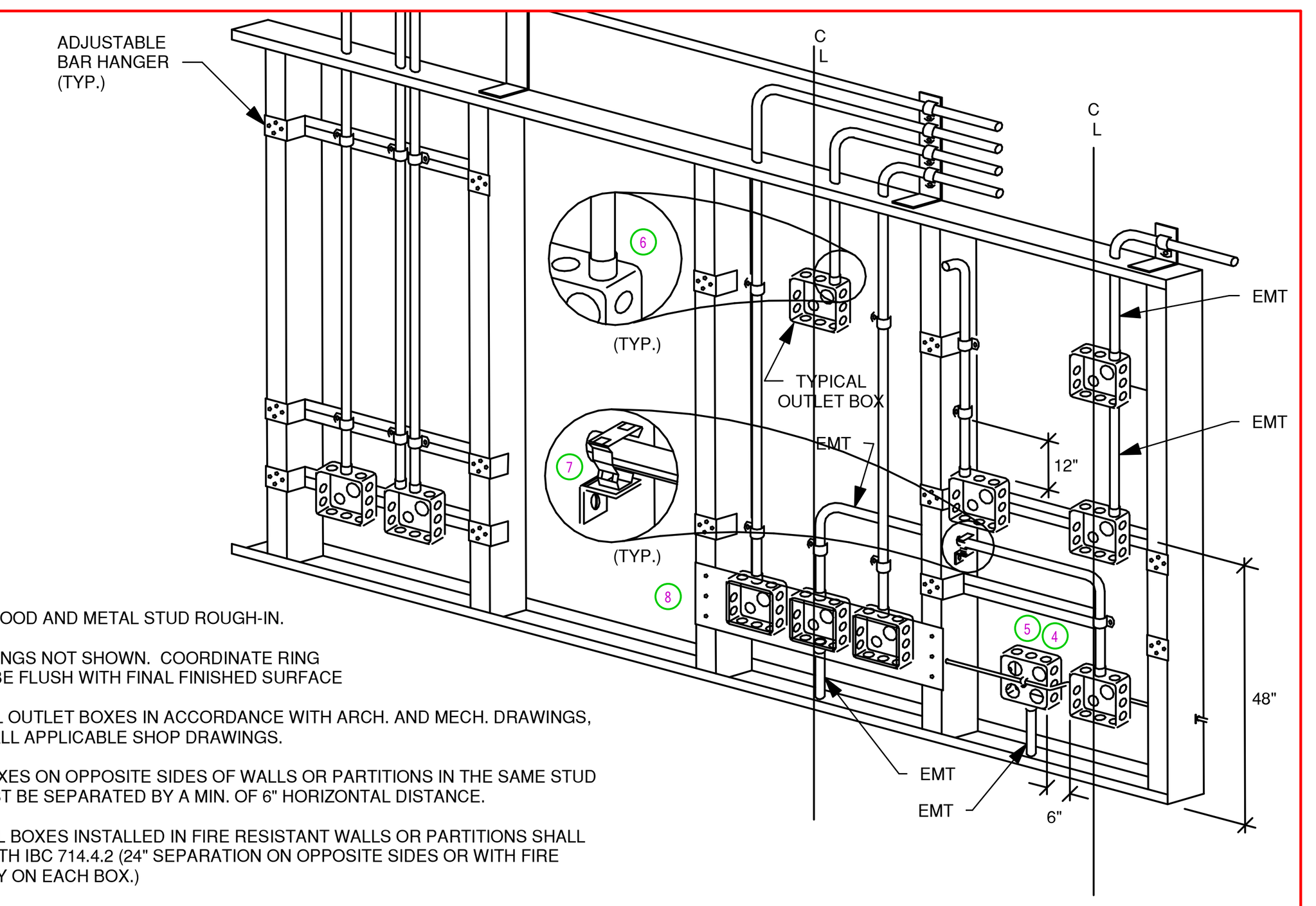


NOTES:

1. TYP. FOR WOOD AND METAL STUD ROUGH-IN.
2. PLASTER RINGS NOT SHOWN. COORDINATE RING DEPTH TO BE FLUSH WITH FINAL FINISHED SURFACE
3. LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCH. AND MECH. DRAWINGS, AND WITH ALL APPLICABLE SHOP DRAWINGS.
4. OUTLET BOXES ON OPPOSITE SIDES OF WALLS OR PARTITIONS IN THE SAME STUD SPACE MUST BE SEPARATED BY A MIN. OF 6" HORIZONTAL DISTANCE.
5. ELECTRICAL BOXES INSTALLED IN FIRE RESISTANT WALLS OR PARTITIONS SHALL COMPLY WITH IBC 714.4.2 (24" SEPARATION ON OPPOSITE SIDES OR WITH FIRE STOP PUTTY ON EACH BOX.)
6. INSULATED THROAT EMT CONNECTOR.
7. CADDY FASTENER, THROUGH STUD CABLE/CONDUIT SUPPORT .
8. CADDY BOX MOUNTING BRACKET .

DIAGRAM H004 TYPICAL ROUGH IN REQUIREMENTS
NTS

NOTES

1. PROVIDE PULL CORD IN ALL EMPTY RACEWAYS.
2. BOND ALL RACEWAYS (SIZED PER NEC REQUIREMENTS) TO ELECTRICAL SERVICE GROUND

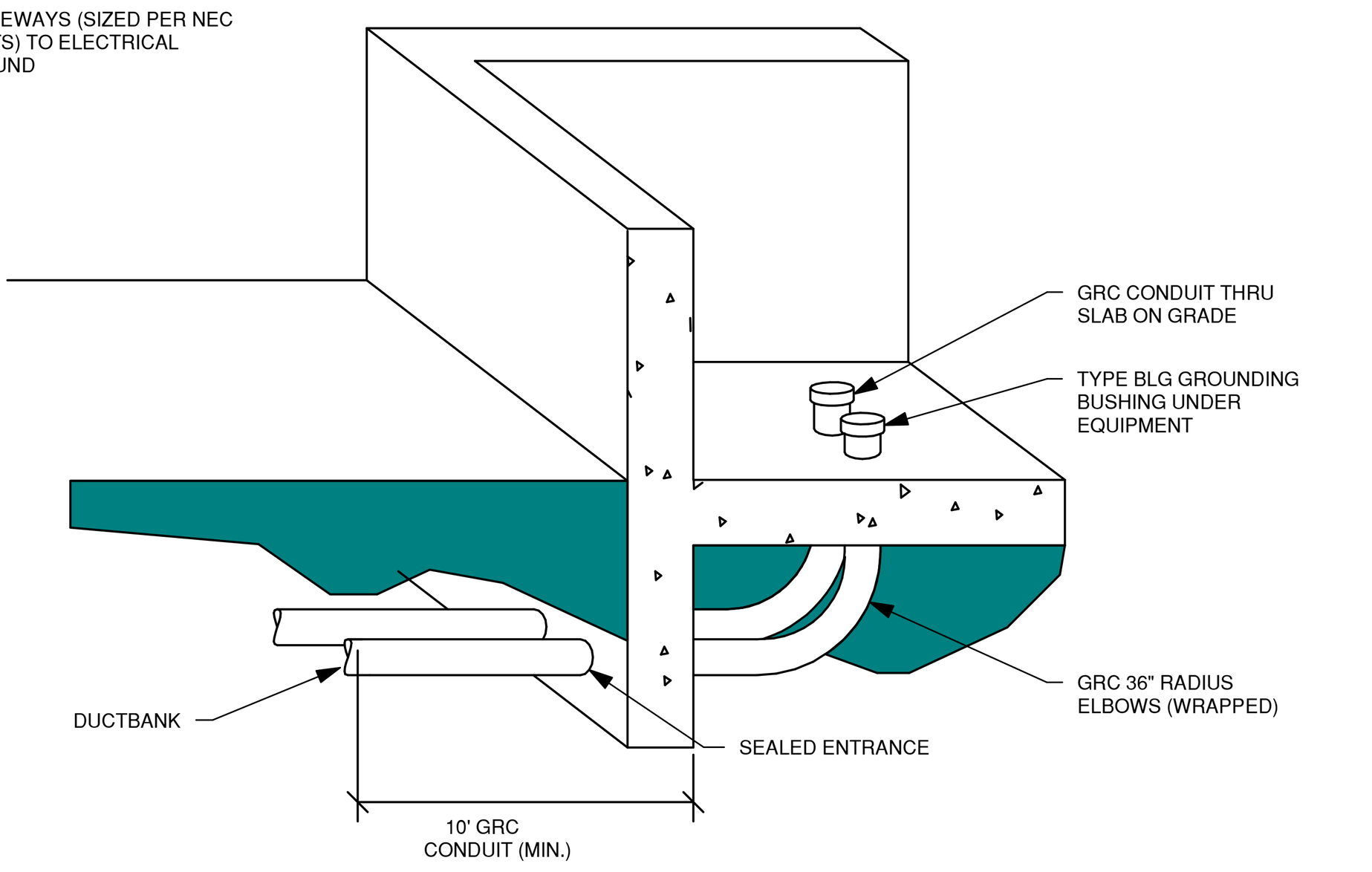


DIAGRAM F002 BUILDING ENTRANCE CONDUITS
NTS

NOTES:

1. SIZE PER ONE-LINE.
2. BOND ACROSS ALL DIELECTRIC UNIONS IN WATER PIPE.
3. LOCATE ADJACENT TO MAIN ELECTRICAL DISCONNECTION MEANS.

BC SIZE
d 25'-#4 CU
d 50'-#1 CU
d 75'-#2/0 CU
> 75'-#3/0 CU

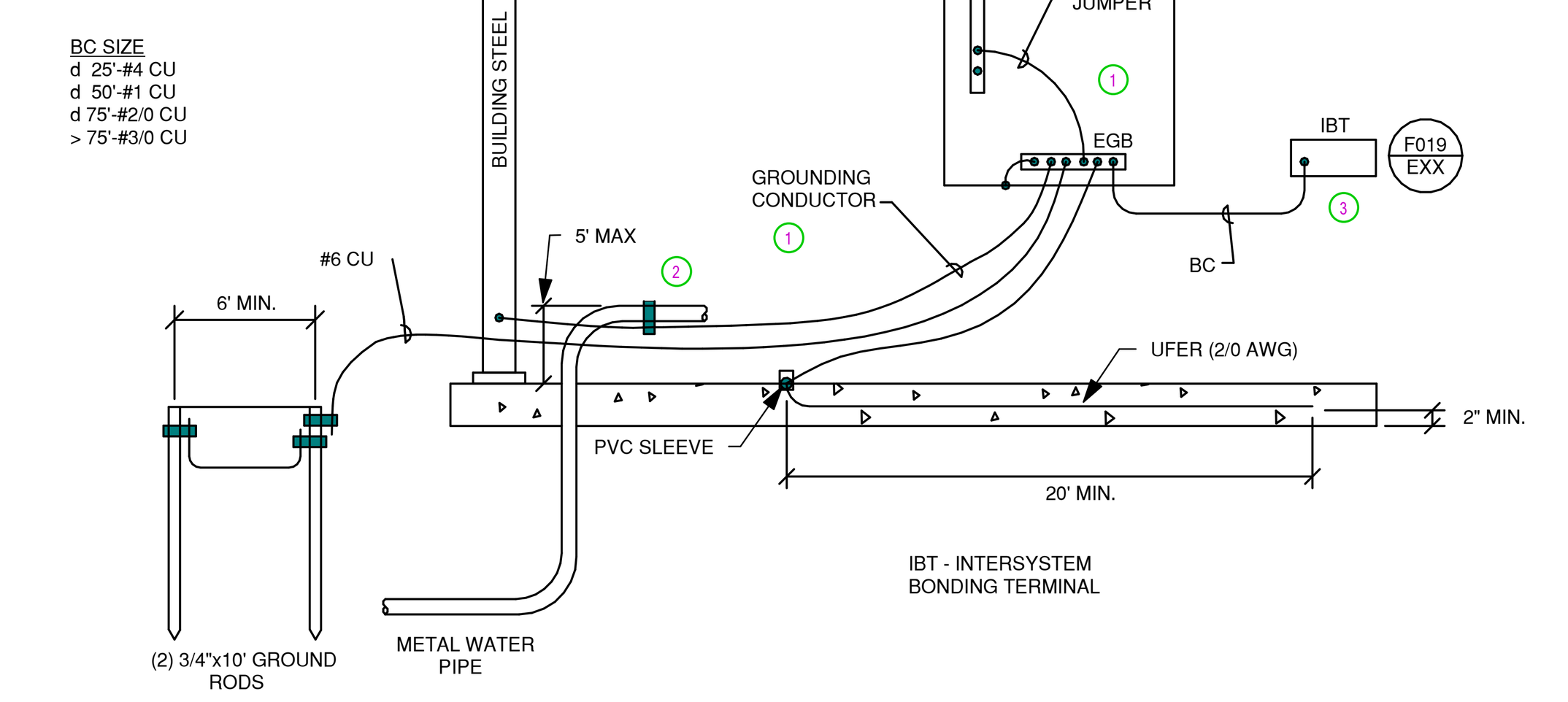
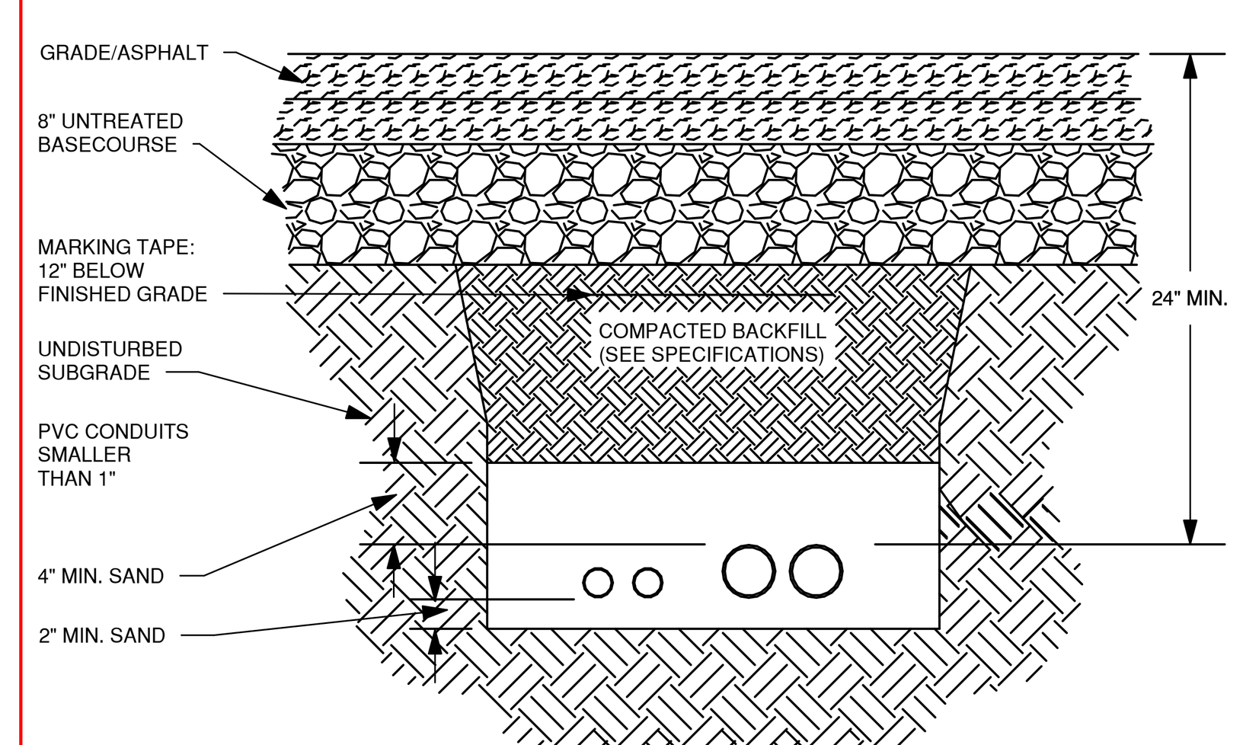


DIAGRAM F020 TYPICAL MAIN ELECTRICAL SERVICE GROUNDING
NTS



NOTES:

1. SEE SPECIFICATION FOR ALL INSTALLATION REQUIREMENTS.
2. INSTALL DETECTABLE MARKING TAPE FOR ALL UNDERGROUND WIRING. SEE SPECIFICATION FOR MORE INFORMATION.
3. APPLY PROTECTIVE COATING TO METALLIC RACEWAYS IN DIRECT CONTACT WITH EARTH OR FILL OF ANY TYPE; CONSISTING OF SPIRALLY WRAPPED PVC TAPE (1/2" MINIMUM OVERLAP OF SCOTCH WRAP TAPE OR EQUAL); OR FACTORY APPLIED VINYL CLADDING (MINIMUM THICKNESS .020 INCHES). COMPLETELY WRAP AND TAPE ALL FIELD JOINTS.
4. BURIAL DEPTHS MUST COMPLY WITH NEC SECTION 300-5 BUT IN NO CASE BE LESS THAN 24", UNLESS NOTED OTHERWISE ON DRAWINGS.
5. LOCATE AND PROTECT ALL CROSSINGS OF EXISTING UTILITIES AND OTHER UNDERGROUND WORK.
6. PROVIDE 6 INCHES TOP SOIL IN PLANTED AREAS INSTEAD OF BASECOARSE AND ASPHALT.
7. SEE SPECIFICATIONS FOR SUBSIDENCE WARRANTY.
8. SEE SPECIFICATIONS FOR STORAGE AND REMOVAL OF EXCAVATED MATERIAL.

DIAGRAM 3 CONDUIT BELOW GRADE
NTS

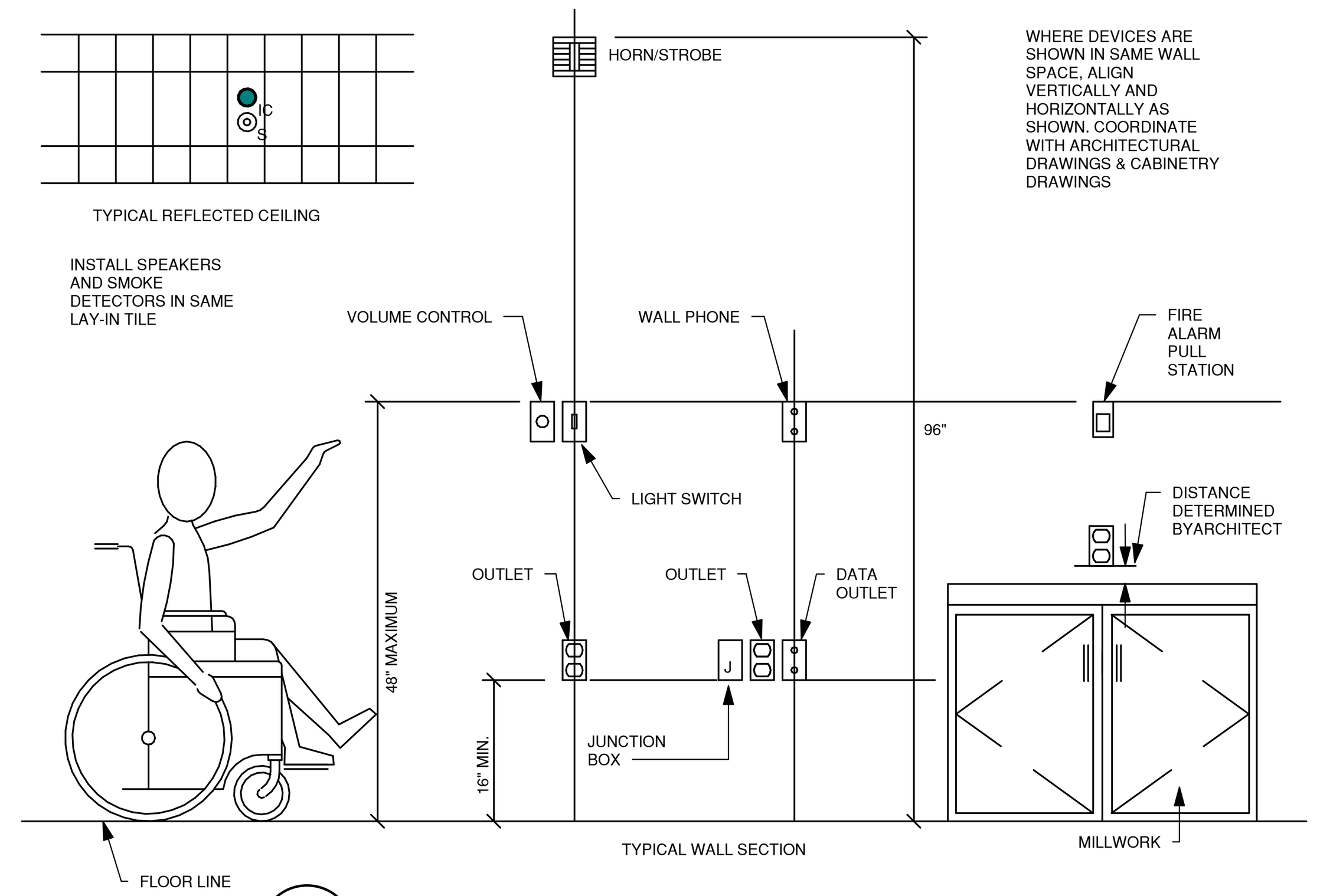


DIAGRAM 5 DEVICE MOUNTING HEIGHTS
NTS

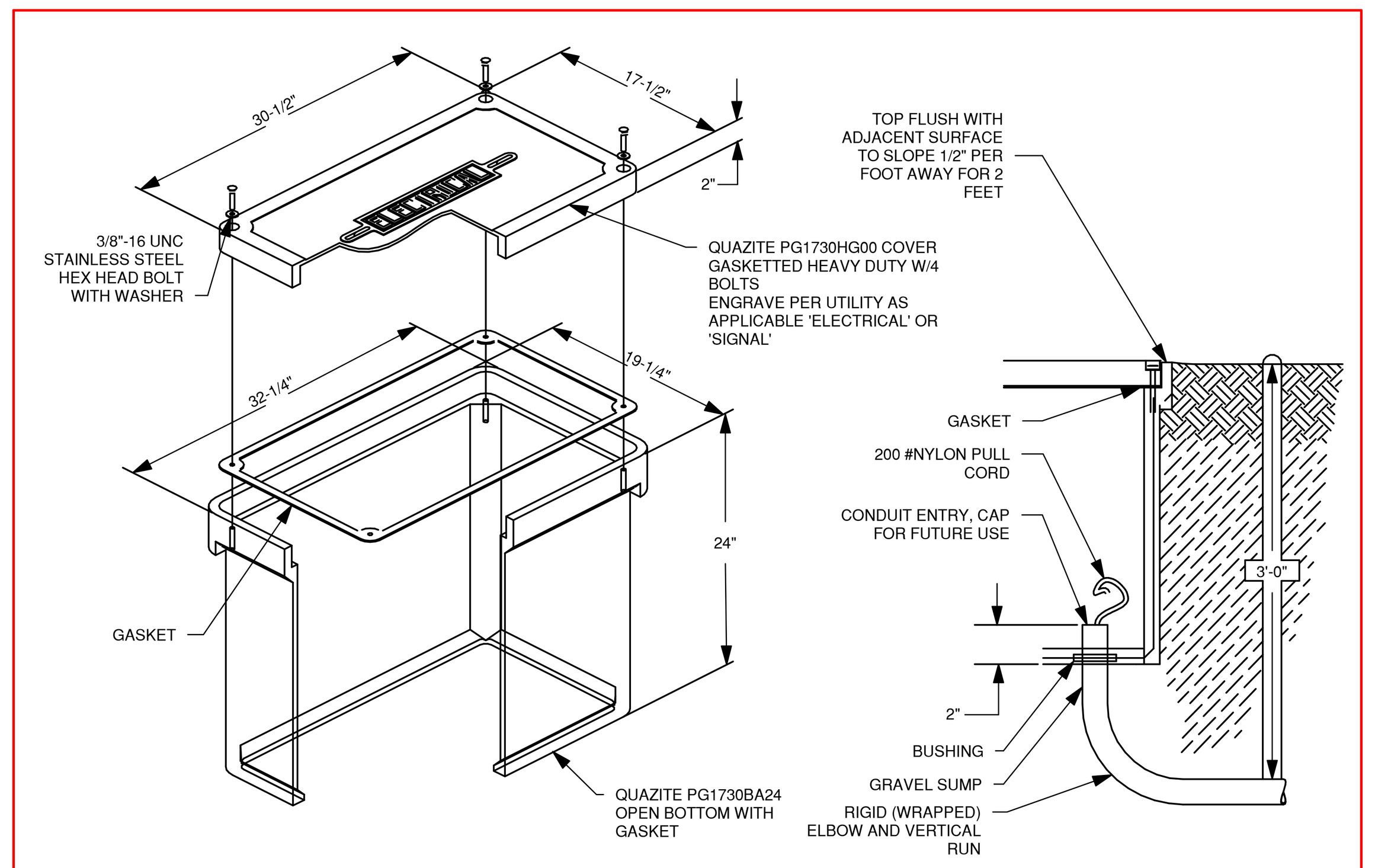
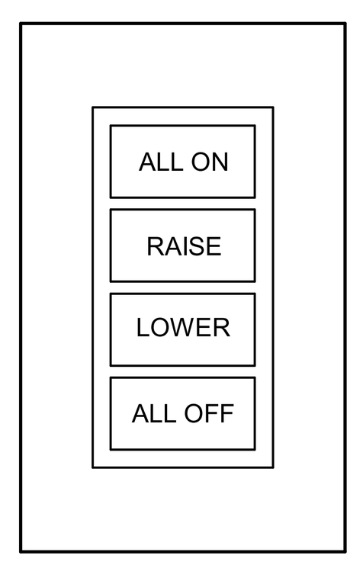


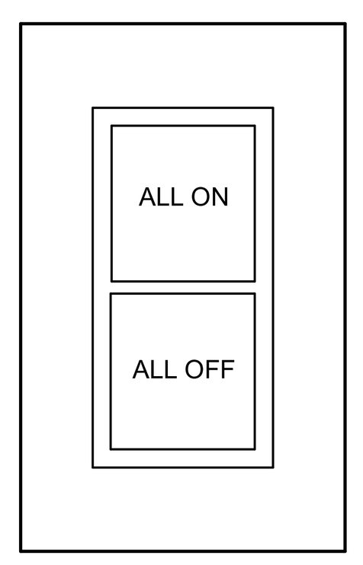
DIAGRAM L011 UNDERGROUND HANDHOLE (17"X30")
NTS



WALL STATION 'RC1' CONFIGURATION	
ENGRAVING	PROGRAMMING
ALL ON	BUTTON SHALL TURN ON ALL LIGHTING TO 100%
RAISE	BUTTON SHALL TO RAISE LIGHTING LEVEL
LOWER	BUTTON TO LOWER LIGHTING LEVEL
ALL OFF	BUTTON SHALL TURN OFF ALL LIGHTING

CONTROL SEQUENCE

UPON ENTERING THE SPACE, OCCUPANCY SENSOR SHALL TURN ALL LIGHTING ON TO 100%. OCCUPANT THEN CAN SET LIGHT LEVELS. LIGHT REMAIN ON TILL END OF DAY TIME OFF.



WALL STATION 'RC2' CONFIGURATION	
ENGRAVING	PROGRAMMING
ALL ON	BUTTON TO CONTROL LOWER LEVEL LIGHTING ON
ALL OFF	BUTTON TO CONTROL LOWER LEVEL LIGHTING OFF

CONTROL SEQUENCE

OCCUPANT SHALL CONTROL LIGHTING THRU CONTROL STATION. LIGHTS SHALL SWEEP OFF ON SCHEDULE PROVIDED BY OWNER.

1. ROUTE CABLING PER THE REQUIRED PATHWAY METHOD TO NEAREST TELECOMMUNICATION ROOM OR CABLE TRAY.
2. NO EXPOSED CONDUIT SHALL BE ALLOWED ON THE INTERIOR OR EXTERIOR E.G. EMT, LIQUID-TIGHT, BOXES, ETC. FOR ANY EXTERIOR MOUNTED CAMERA, CONTRACTOR SHALL LOCATE A JUNCTION BOX ON THE INTERIOR WALL FURRING WITH A 10' CATEGORY CABLE SERVICE LOOP AND TERMINATED IN A SURFACE MOUNT BOX. COORDINATE OPENING THE BACKSIDE OF CAMERA MOUNT AND DRILL (LARGE ENOUGH TO ROUTE UNTERMINATED CATEGORY CABLE) THROUGH STRAIGHT THROUGH EXTERIOR FACADE AND PROVIDE BLACK IP67-RATED WEATHERPROOF STRANDED CAT6 CABLE ASSEMBLY AND ROUTE THROUGH WALL AND TERMINATE AT CABLE AT THROUGH WEATHERPROOF CONNECTION ON CAMERA AND INTERIOR SURFACE MOUNT BOX. PROVIDE WEATHERPROOF SEALANT AROUND DRILLED HOLE AS REQUIRED.

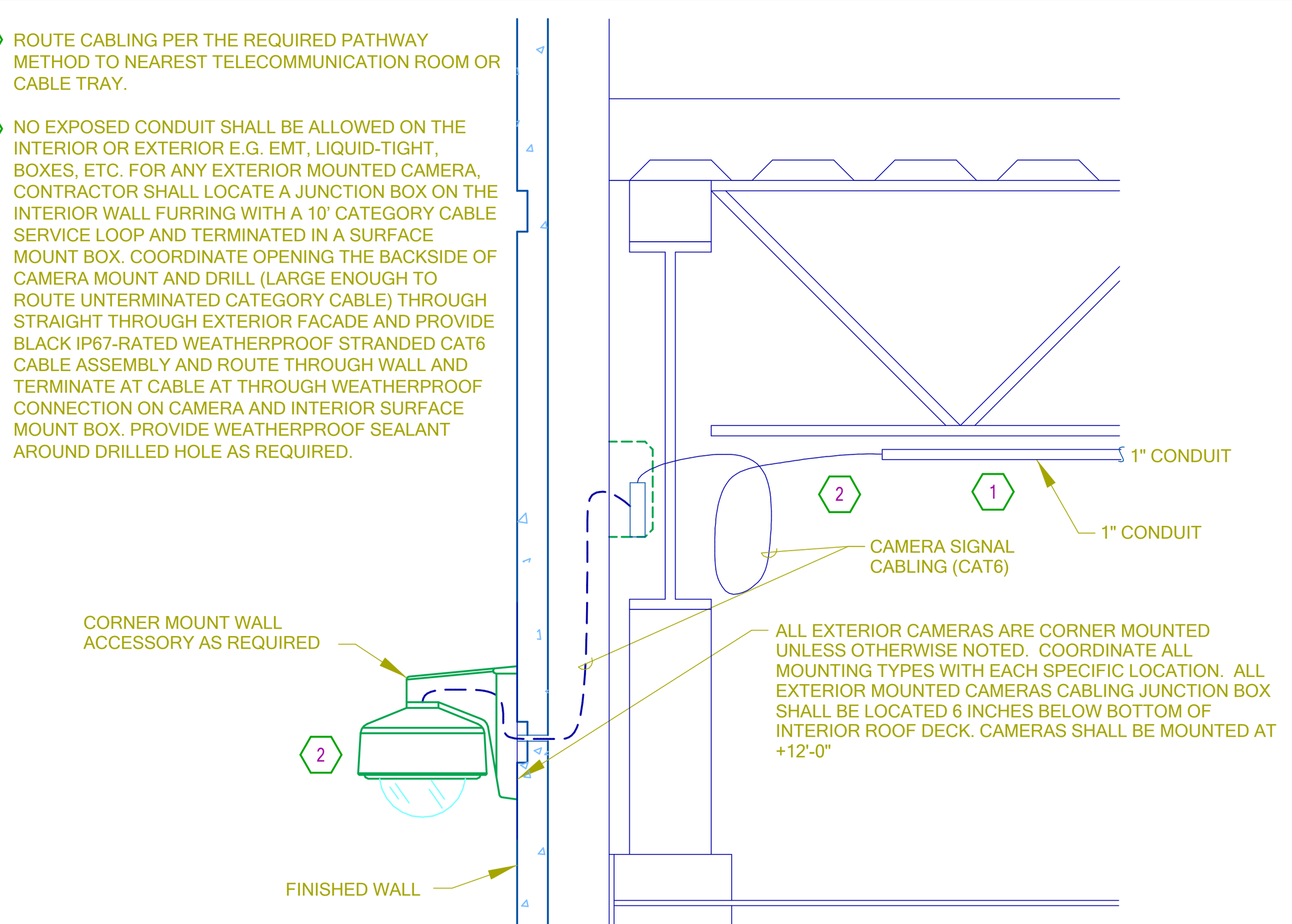


DIAGRAM E005 EXTERIOR IP CAMERA MOUNTING
NTS

NOTES:

1. SEE SPECIFICATION FOR ALL INSTALLATION REQUIREMENTS.
2. INSTALL DETECTABLE MARKING TAPE FOR ALL UNDERGROUND WIRING. SEE SPECIFICATION FOR MORE INFORMATION.

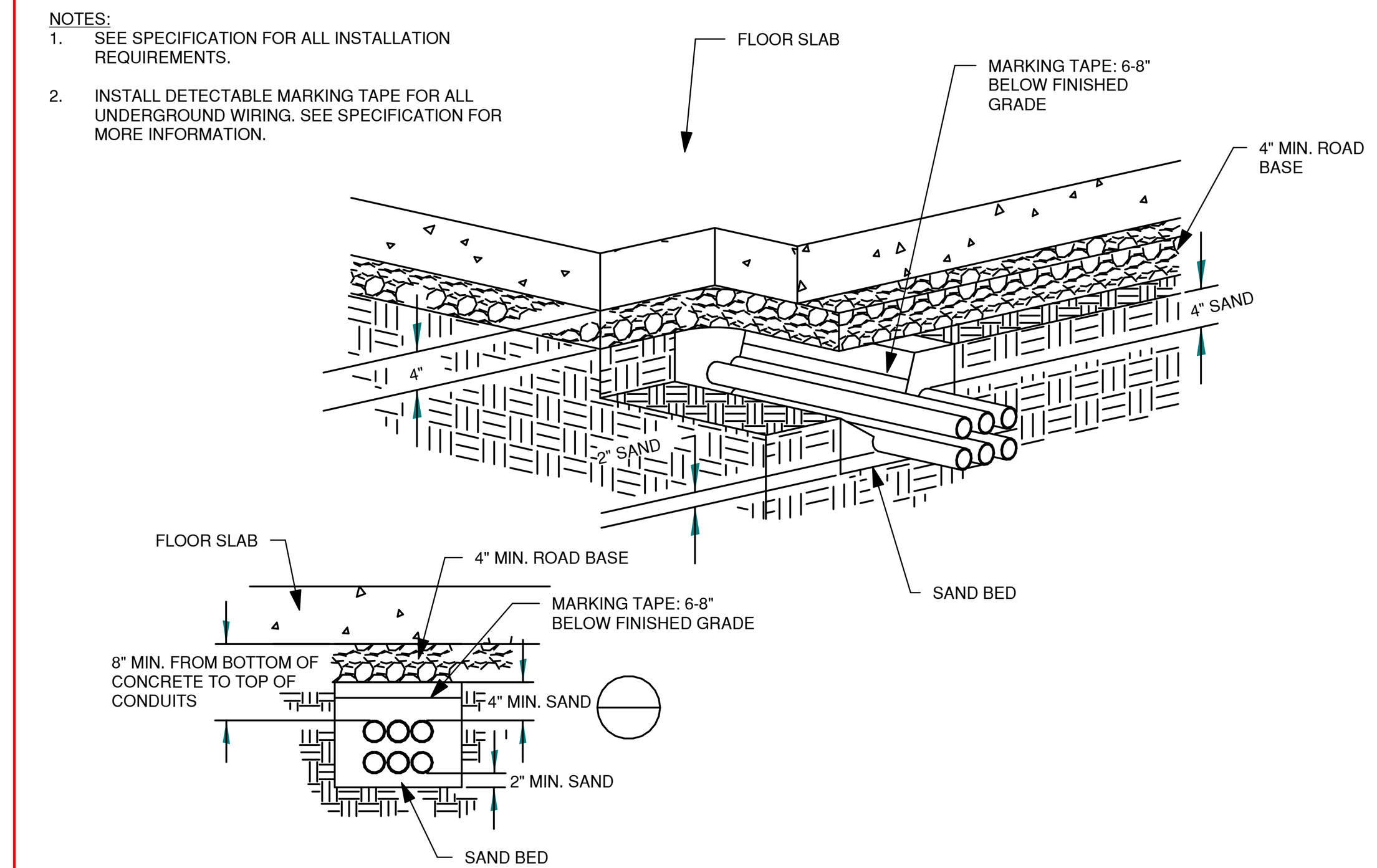


DIAGRAM 4 CONDUIT BELOW SLAB
NTS

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ELECTRICAL DIAGRAMS

SHEET NUMBER
E701

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LOW VOLTAGE SCOPE OF WORK

NOTES:...

1. RESPONSIBILITY MATRIX DELINEATES THE SCOPE OF WORK BETWEEN THE OWNER AND THE CONTRACTORS. CONTRACTORS ARE RESPONSIBLE TO COORDINATE BETWEEN EACH OTHER FOR THE FULL SCOPE OF WORK THEY ARE RESPONSIBLE FOR.
2. ADDITIONAL NOTES MAY BE PRESENT WITHIN THE CONTRACT DOCUMENTS INDICATING SPECIFIC EQUIPMENT PROVIDED BY OTHERS OR REQUIRE INSTALLATION BY SPECIFIC DIVISIONS.
3. INSTALLER PROVIDING THE SYSTEM CABLING SHALL PROVIDE THE CABLING, TERMINATION AND CERTIFICATION FOR A COMPLETE SYSTEM INSTALLATION, UNLESS OTHERWISE SPECIFICALLY NOTED WITHIN THE CONTRACT DOCUMENTS.
4. INSTALLER TO VERIFY WITH CONTRACT DOCUMENTS FOR THE CONNECTION TYPE (MALE OR FEMALE) REQUIRED FOR EACH SYSTEM.
5. REFER TO DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

LEGEND

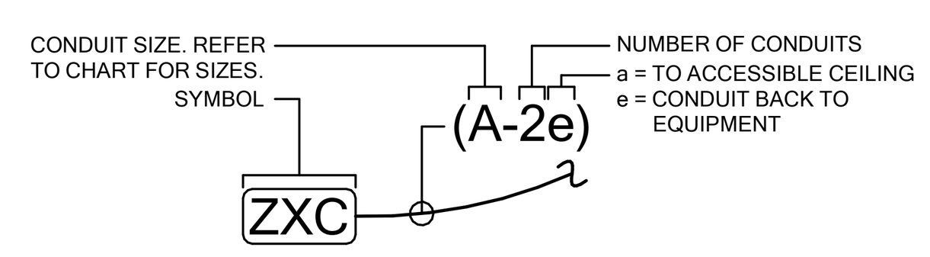
AC	ACCESS CONTROL CONTRACTOR
AV	AUDIOVISUAL CONTRACTOR
DC	DOOR HARDWARE CONTRACTOR
EC	ELECTRICAL CONTRACTOR
FR	FURNITURE CONTRACTOR
GC	GENERAL CONTRACTOR
IC	INTRUSTION DETECTION CONTRACTOR
LVC	TELEPHONE/DATA CABLING CONTRACTOR
NIC	NOT IN CONTRACT
OWNER	OWNER
SC	VIDEO SURVEILLANCE CONTRACTOR
SPEC	SEE SPECIFICATIONS

DESCRIPTION	FURNISHED BY	INSTALLED BY
_GENERAL		
EQUIPMENT POWER (120V, 208V, 240V, 277V, 480V)	EC	EC
ROUGH OR FINISHED TRIM, CASEWORK, MILLWORK, EQUIPMENT RACK PEDESTALS, STRUCTURAL WORK FOR SPECIAL CONSTRUCTION	GC	GC
STRUCTURAL BACKING AND SUPPORT FOR WALL MOUNTED EQUIPMENT	GC	GC
SUPPORT CABLES, PRE-CONSTRUCTION KITS, TILE BRIDGES AND/OR BACK BOXES FOR CEILING MOUNTED DEVICES.	EC	EC
ACCESS CONTROL		
ROUGH-IN - CONDUIT W/PULL STRING, JUNCTION BOXES, FLOOR BOXES, ETC.	EC	EC
CATEGORY CABLE / FIBER OPTIC CABLE	AC	AC
NON-CATEGORY CABLE	AC	AC
ACCESS CONTROL SERVER	AC	AC
ACCESS CONTROL SOFTWARE	OWNER	OWNER
DOOR CONTROLLER POWER SUPPLIES	AC	AC
DOOR CONTROLLERS	AC	AC
DOOR LOCKING ELECTRONIC HARDWARE	DC	DC
LOCK & ACCESS CONTROL POWER SUPPLIES	DC	AC
NETWORK SWITCHES WITHIN THE ER(MDF)/TR(IDF) FOR ACCESS CONTROL AND/OR INTRUSION SYSTEMS	OWNER	OWNER
AUDIOVISUAL		
ROUGH-IN - CONDUIT W/PULL STRING, JUNCTION BOXES, FLOOR BOXES, FLAT PANEL DISPLAY BACK BOXES, ETC.	EC	EC
SPECIALTY BACK BOXES, TILE BRIDGES, SUPPORT CABLES, PRECONSTRUCTION KITS, ETC. FOR AUDIOVISUAL COMPONENTS (TOUCH PANELS, LOUDSPEAKERS, KEYPADS, ETC.)	AV	AV
CATEGORY CABLE / FIBER OPTIC CABLE FROM DEVICE LOCATION TO TR(MDF)/ER(IDF) TERMINATED IN PATCH PANEL	LVC	LVC
CATEGORY CABLING FROM DEVICE TO DEVICE, NOT TERMINTATED IN PATCH PANELS WITHIN THE ER(MDF/TR(IDF)	AV	AV
COAXIAL CABLE	LVC	LVC
LIGHTING CONTROL SYSTEM INTERFACE DEVICE(S) AND CABLING TO AV CONTROL SYSTEM. TERMINATION INTO AV SYSTEM CONTROLLER BY AV INSTALLER	EC	EC
MOTORIZED SHADE CONTROL SYSTEM INTERFACE DEVICE(S) AND CABLING TO AV CONTROL SYSTEM. TERMINATION INTO AV SYSTEM	AV	AV
CUSTOM AUDIOVISUAL CONNECTOR INSERT PLATE FOR FLOOR BOXES AND/OR WALL PLATES	AV	AV
EQUIPMENT RACKS NOT WITHIN THE ER(MDF)/TR(IDF) FOR SYSTEM COMPONENTS	AV	AV
FURNITURE BOX TABLE CUTTING	GC	GC
FURNITURE BOXES WITH AUDIOVISUAL CONNECTIONS AND/OR CABLES	AV	AV
PROJECTOR SCREEN MANUAL AND/OR MOTORIZED HOUSING	AV	AV
PROJECTOR SCREEN MANUAL AND/OR MOTORIZED ROLLER	AV	AV
PROJECTOR SCREEN, FIXED FRAME (SIMILAR TO WHITEBOARD)	GC	GC
FLAT PANEL MONITOR MOUNTS	AV	AV
FLAT PANEL MONITORS	AV	AV
INSTRUCTOR'S LECTERNS/CONSOLES WITH INTEGRATED AUDIOVISUAL SYSTEMS COMPONENTS	AV	AV
INTERACTIVE FLAT PANEL MONITORS AND MOUNTS	OWNER	OWNER
NETWORK SWITCHES WITHIN THE ER(MDF)/TR(IDF) FOR AUDIOVISUAL NETWORK, AUDIO, CONTROL AND VIDEO	OWNER	OWNER
VIDEO PROJECTOR	AV	AV
VIDEO PROJECTOR MOUNTS	AV	AV
SECURITY		
ROUGH-IN - CONDUIT W/PULL STRING, JUNCTION BOXES, FLOOR BOXES, ETC.	EC	SC
CAMERA ETHERNET EXTENDERS AND POE INJECTORS	LVC	LVC
CATEGORY CABLE / FIBER OPTIC CABLE	LVC	LVC
SURGE SUPRPESSION	SC	SC
TERMINATE CABLE (PATCH PANEL AND DATA PORT), INCLUDING TESTING	LVC	LVC
EQUIPMENT RACKS WITHIN THE ER(MDF)/TR(IDF) FOR SYSTEM COMPONENTS	LVC	LVC
NETWORK SWITCHES WITHIN THE ER(MDF)/TR(IDF) FOR VIDEO SURVEILLANCE	OWNER	OWNER
POE DATA SWITCHES	OWNER	OWNER
SECURITY CAMERA MOUNTS	OWNER	OWNER
SECURITY CAMERAS	OWNER	OWNER
VIDEO MANAGEMENT SOFTWARE (VMS) AND CAMERA LICENSES	OWNER	OWNER
TELEPHONE / DATA		
ROUGH-IN - CONDUIT W/PULL STRING, JUNCTION BOXES, FLOOR BOXES, FLAT PANEL DISPLAY BACK BOXES, ETC.	EC	EC
CATEGORY CABLE / FIBER OPTIC CABLE	LVC	LVC
PATCH CABLES FOR DEVICES WITHIN THE TR/ER FOR CONNECTION BETWEEN PATCH PANELS AND NETWORK SWITCHES	LVC	LVC
TERMINATE CABLE (PATCH PANEL AND DATA PORT), INCLUDING TESTING	OWNER	OWNER
CUSTOM TELECOMMUNICATIONS CONNECTOR INSERT PLATE FOR FLOOR BOXES AND/OR WALL PLATES	EC	EC
DATA SWITCHES, SERVERS, FIREWALL, ETC	OWNER	OWNER
EQUIPMENT RACKS WITHIN THE ER(MDF)/TR(IDF) FOR SYSTEM COMPONENTS	LVC	LVC
RACK MOUNT UPS, POWER DISTRIBUTION UNIT (PDU)	LVC	LVC
WIRELESS ACCESS POINTS	OWNER	OWNER

AUDIOVISUAL GENERAL NOTES

1. THIS SHEET SET SHOWS WORK AND MATERIALS BY DIVISION 26 AND DIVISION 27. SEE SPECIFICATIONS AND DRAWING NOTES FOR RESPONSIBILITY FOR EACH ITEM.
2. ELECTRICAL CONTRACTOR SHALL COORDINATE REQUIRED PROVISIONS WITH THE PROJECT AV SYSTEMS INTEGRATOR PRIOR TO INSTALLATION OF AV SYSTEM ROUGH-IN. WHERE CONDUIT AND JUNCTION BOX PROVISIONS ARE SIGNIFICANTLY DIFFERENT FROM THOSE SHOWN ON THE DRAWINGS, NOTIFY THE AV CONSULTANT IN WRITING OF THE REQUIREMENTS. WHERE MINOR MODIFICATIONS TO PROVISIONS ARE REQUIRED, THEY SHALL BE MADE AT NO ADDITIONAL COST AS A MATTER OF JOB COORDINATION.
3. BIDDERS SHALL THOROUGHLY ACQUAINT AND EXAMINE THE EXISTING PROJECT CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. INCLUDING THE COMPLETE SET OF PLANS AND SPECIFICATIONS COVERING THE ENTIRE PROJECT. BIDDERS SHALL BECOME FULLY CONVERSANT WITH THE TYPE OF GENERAL CONSTRUCTION AS WELL AS ALL PERTINENT FACTS AFFECTING THE COST OF CARRYING OUT THE WORK THEY WILL CONTRACT TO PERFORM AND BRING ANY DISCREPANCIES OR OMISSIONS FOUND IN THE DRAWINGS TO THE AV CONSULTANT'S ATTENTION BEFORE SUBMITTING BID.
4. AV SYSTEMS INTEGRATOR SHALL PROVIDE A FULLY FUNCTIONING SYSTEM IN EVERY RESPECT. ANY DISCREPANCIES IN THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT AV CONSULTANT PRIOR TO BIDDING.
5. THE FOREGOING WORK SHALL BE COMPLETE IN EVERY RESPECT, AND ANY MATERIAL OR WORK NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS. BUT NECESSARY TO FULLY COMPLETE THE WORK, SHALL BE FURNISHED BY THE PROJECT AV SYSTEMS INTEGRATOR.
6. NO CHANGES TO THE DESIGN SHALL BE MADE WITHOUT THE PROJECT AV CONSULTANT'S WRITTEN CONSENT.
7. WHERE APPLICABLE, AV SYSTEMS INTEGRATOR SHALL FOLLOW ALL MANUFACTURER'S INSTALLATION GUIDELINES.
8. REFER TO DRAWINGS FOR EXACT NUMBER OF COMPONENTS USED IF NOT SPECIFIED IN EQUIPMENT LIST.
9. COORDINATE EXACT SPEAKER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS. ANY CONFLICT SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT AV CONSULTANT PRIOR TO BIDDING.
10. CONFIRM AVAILABLE MOUNTING DEPTHS OF ALL SPEAKERS AND COMPARE WITH DEPTHS SHOWN ON SHOP DRAWINGS. BRING ALL POTENTIAL CONFLICT AREAS TO THE ATTENTION OF THE ARCHITECT AND AV CONSULTANT PRIOR TO RELEASE.
11. INSTALL/SUSPEND ALL AUDIOVISUAL SYSTEMS EQUIPMENT IN COMPLIANCE WITH SEISMIC CODES, MANUFACTURER'S WRITTEN INSTRUCTIONS, AND INDUSTRY BEST PRACTICES. DURING THE SUBMITTAL PROCESS, PROVIDE SHOP DRAWINGS WHICH DETAIL PROPOSED MOUNTING FOR ALL SUCH EQUIPMENT.
12. ALL TWISTED-PAIR (U/UTP, F/UTP, U/FTP, S/FTP) CATEGORY TYPE CABLING SHALL BE TERMINATED BY CERTIFIED DATA TECHNICIANS. TEST PER SPECIFICATIONS REQUIREMENTS AND PROVIDE DATA TO AV CONSULTANT.
13. ALL HDBaseT SIGNAL CABLING, TERMINATIONS, AND TERMINATION HARDWARE SHALL COMPLY WITH TIA/EIA WIRING CONFIGURATION T568 B. ALL HDBaseT SIGNAL CABLING SHALL BE SHIELDED/FOIL (SF/UTP) CATEGORY TYPE CABLE.
14. CONDUCT A RADIO FREQUENCY AUDIT OF THE SITE PRIOR TO SELECTING RF OPERATIONAL FREQUENCIES. AV SYSTEMS INTEGRATOR TO ENSURE INTERFERENCE FREE OPERATION OF ALL RF DEVICES. AV SYSTEMS INTEGRATOR SHALL COORDINATE AUDIT RESULTS WITH MANUFACTURER PRIOR TO PURCHASING RF EQUIPMENT.
15. PROVIDE RACK MOUNT KITS FOR ALL RACK MOUNTED EQUIPMENT. PROVIDE CUSTOM RACK MOUNT KITS WHEN NOT AVAILABLE FROM THE EQUIPMENT MANUFACTURER.
16. PROVIDE SURGE PROTECTION DEVICE (SPD) IN ALL AV EQUIPMENT RACKS.
17. ALL AV EQUIPMENT RACKS SHALL BE GROUNDED AND BONDED TO MEET OR EXCEED THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE (NED), IEC 1000-5-2 ANSI/J-STD-607-A.
18. ALL AV EQUIPMENT SHALL BE GROUNDED PER MANUFACTURER'S SPECIFICATIONS.
19. PROVIDE MANUFACTURER RECOMMENDED POWER SUPPLIES OR TRANSFORMERS FOR ALL SPECIFIED EQUIPMENT.
20. THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR LACK OF COORDINATION WITH AV CONSULTANT AS ADDRESSED IN THE DOCUMENTS
21. UNLESS SPECIFICALLY SPECIFIED OR NOTED PROVIDE COMMERCIAL QUALITY EQUIPMENT, MATERIALS AND COMPONENTS DESIGNED FOR CONTINUOUS USE. CONSUMER QUALITY COMPONENTS ARE NOT ACCEPTABLE.

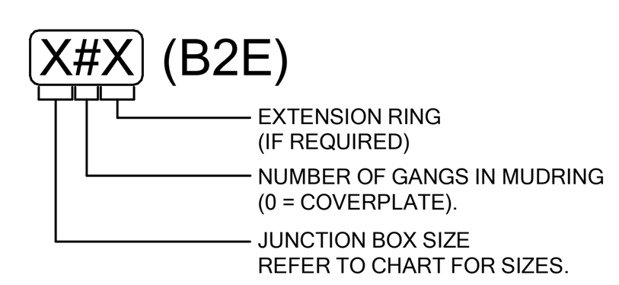
CONDUIT SCHEDULE LEGEND:



CONDUIT SIZE CHART

A = 3/4" CONDUIT
B = 1" CONDUIT
C = 1-1/4" CONDUIT
D = 1-1/2" CONDUIT
E = 2" CONDUIT
F = 4" CONDUIT

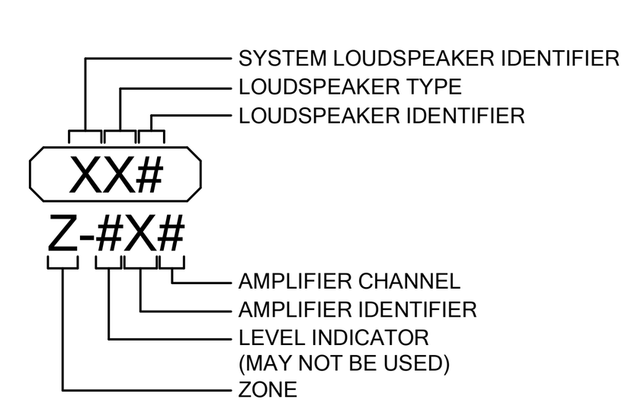
ROUGH-IN JUNCTION BOX LEGEND:



JUNCTION BOX SIZE

A = 4" SQ. 2-1/8" DEEP JUNCTION BOX
B = 4-11/16" SQ. JUNCTION BOX
C = CUSTOM JUNCTION BOX SEE SCHEDULE FOR SIZE
D = HUBBELL - HBL260/HBL985

LOUDSPEAKER LEGEND:



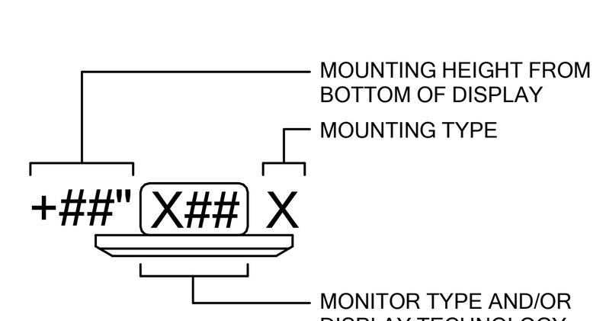
LOUDSPEAKER TYPES

A = ARRAY, CABINET, CLUSTER
C = CEILING RECESSED
P = PENDANT MOUNTED
R = WALL RECESSED
S = CEILING SURFACE MOUNTED
W = WALL SURFACE MOUNTED

SYSTEM LOUDSPEAKER IDENTIFIER

BLANK = SYSTEM SPECIFIC
I = INTERCOM SYSTEM
SM = SOUND MASKING SYSTEM

FLAT PANEL MONITOR LEGEND:



MOUNT TYPES

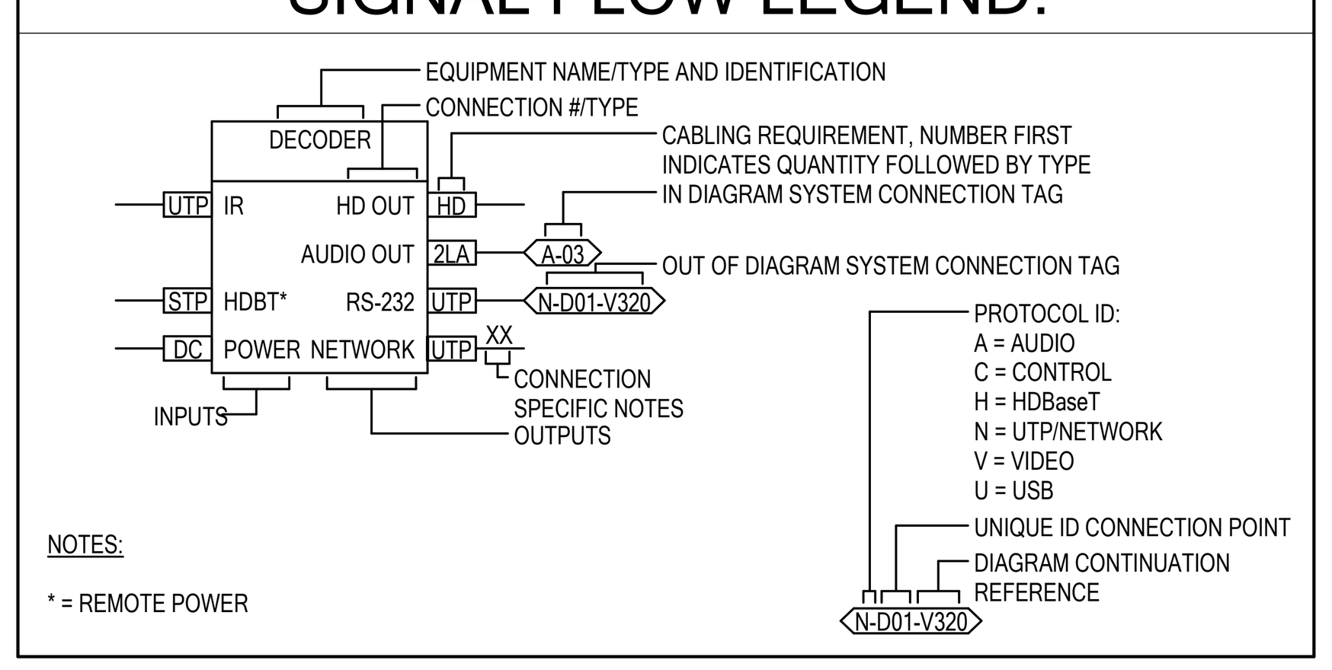
CLG = CEILING (POLE) MOUNT
F = FLAT MOUNT
T = TILT MOUNT
R = RECESSED MOUNT
S = ARTICULATING MOUNT
H = ADJUSTABLE HEIGHT MOUNT*

MONITOR TYPES

D = TYPICAL COMMERCIAL GRADE
S = INTERACTIVE COMMERCIAL GRADE
V = VIDEO WALL (SLIM BEZEL)
L = DIRECT VIEW LED PRODUCT

* HEIGHT INDICATED IS THE MAX HEIGHT, MOUNT SHALL ADJUST DOWN

SIGNAL FLOW LEGEND:



NOTES:

* = REMOTE POWER

AUDIOVISUAL CABLE AND CONDUIT SCHEDULE

NOTES:

1. APPROVED EQUALS FROM OTHER MANUFACTURERS ARE BELDEN, GEPCO/GENERAL, ICE, KRAMER, EXTRON, CRESTRON, LIBERTY CABLE, AND WINDY CITY WIRE.
2. PROVIDE PLENUM RATED CABLES IN ANY "AIR HANDLING" SPACES E.G. ABOVE CEILINGS, RAISED FLOORS, CHASES, ETC.
3. CABLE QUANTITY INDICATED ON DRAWINGS SHOWS ON FINAL RUN. IF NOT NOTED PROVIDE CABLING FOR SINGLE DEVICE.
4. CONDUIT REQUIREMENTS SHOWN ARE MINIMUM CONDUIT SIZE REQUIRED FOR A SINGLE CABLE, UNLESS OTHERWISE NOTED ON DRAWINGS. NUMBER OF CABLES LISTED IS THE MAXIMUM AMOUNT ALLOWED FOR CONDUIT SIZE INDICATED.
5. WHEN COMBINING CABLE TYPES OF THE SAME GROUP, THE TYPE WITH THE LARGEST CONDUIT REQUIREMENT DICTATES CONDUIT SIZE.
6. PROVIDE ON ALL HDMI CABLES LONGER THAN 35' OR WITH MORE THAN (3) CONNECTION POINTS (1) ACTIVE HDMI EXTENSION DEVICE.
7. ALL CATEGORY CABLE SHALL BE TESTED AND CERTIFIED TO ANSI/TIA/EIA-568C AND IEEE 802.3an STANDARDS USING A LEVEL IIIe TESTER.
8. REFER TO SPECIFICATIONS FOR STP CABLE REQUIREMENTS. ALL UNSHIELDED (UTP) CATEGORY CABLES WITHIN THE PROJECT SHALL BE SUPPLIED FROM A SINGLE MANUFACTURER AND MATCH MAKE/MODEL.
9. HDMI CABLES ARE INTENDED TO PASS 4K 60 4:4:4 FROM SOURCE TO DESTINATION. CONTRACTOR TO VERIFY THE LENGTH OF ALL CABLES USED MEET THIS REQUIREMENT.

* INDICATES DEFAULT CABLE IF MANUFACTURER DOES NOT RECOMMEND A SPECIFIC CABLE.
** INDICATES DEFAULT CABLE IF HORIZONTAL CABLING IS EXCLUDED FROM THE PROJECT AND NOT OWNER PROVIDED.

CABLE TYPE	DESCRIPTION	CONDUIT REQUIREMENTS	MANUFACTURER	MODEL NUMBER	CABLE GROUP
(#)AT	ANTENNA, COAXIAL RG8X	1" CONDUIT = (7) CABLES 1 1/2" CONDUIT = (12) CABLES	WEST PENN	807 *	5
(#)CT	CONTROL, 2/22 SHIELDED, 2/18 UNSHIELDED	1" CONDUIT = (7) CABLES 1 1/4" CONDUIT = (12) CABLES	WEST PENN	77350 * D25350 (P) *	5
(#)HD	HDMI < 20', ULTRA FLEXIBLE	1 1/4" CONDUIT = (1) CABLES 2" CONDUIT = (3) CABLES	EXTRON CRESTRON	HDMI ULTRA/## CBL-HD-##	5
(#)HD	HDMI > 20'	1 1/4" CONDUIT = (1) CABLES 2" CONDUIT = (3) CABLES	EXTRON KRAMER	HDMI PRO P/XX CP-HM/HM/ETH (P)	5
(#)LA (#)MA	LINE LEVEL, 22 AWG MICROPHONE, 22 AWG	1" CONDUIT = (23) CABLES 1 1/2" CONDUIT = (77) CABLES	WEST PENN	291 D25454 (P)	3 2
(#)MFB	MULTIMODE FIBER OPTIC	1" CONDUIT MINIMUM	PER SPEC	27 1500	1
(#)RG6	RG-6 COAXIAL CABLE	1" CONDUIT = (8) CABLES 1 1/2" CONDUIT = (18) CABLES	WEST PENN	841 25841 (P)	5
(#)RG11	RG-11 COAXIAL CABLE	1" CONDUIT = (3) CABLES 1 1/4" CONDUIT = (6) CABLES	WEST PENN	821 D25821 (P)	5
(#)S12	SPEAKER, 12 AWG	1" CONDUIT = (3) CABLES 1 1/2" CONDUIT = (7) CABLES 2" CONDUIT = (11) CABLES	WEST PENN	227 25227B (P)	4
(#)S16	SPEAKER, 16 AWG	1" CONDUIT = (10) CABLES 1 1/4" CONDUIT = (17) CABLES	WEST PENN	225 25225B (P)	4
(#)SFB	SINGLE MODE FIBER OPTIC	1" CONDUIT MINIMUM	PER SPEC	27 1500	1
(#)STP	SHIELDED TWISTED PAIR, CAT 6A	1" CONDUIT = (4) CABLES 1 1/4" CONDUIT = (8) CABLES	PER MFG WEST PENN	4246AF * 254246AF (P) *	5
(#)UTP	UN-SHIELDED TWISTED PAIR CAT 6	1" CONDUIT = (9) CABLES 1 1/4" CONDUIT = (15) CABLES	PER SPEC WEST PENN	4246 ** 254246 (P) ** SPEC 27 1500	5
(#)VG	HIGH RESOLUTION VIDEO	1" CONDUIT = (1) CABLES 1 1/4" CONDUIT = (4) CABLES	WEST PENN	5CRGB 255CRGB (P)	5
(#)SDI	SERIAL DIGITAL INTERFACE (RG-6 COAX)	1" CONDUIT = (8) CABLES 1 1/2" CONDUIT = (18) CABLES	WEST PENN	841 25841 (P)	5
(#)USB	USB EXTENSION CABLE	1" CONDUIT = (3) CABLES 1 1/4" CONDUIT = (10) CABLES	CABLES TO GO	52108	5
(#)X#	MANUFACTURER PROPRIETARY CABLE	AS NOTED	SPEC. 27 4100	SPEC. 27 4100	NA

ABBREVIATIONS INDEX

ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
#	NUMBER	MH	MANHOLE
A.F.F.	ABOVE FINISH FLOOR	MIN	MINIMUM
AMP	AMPERE	MTG	MOUNTING
ANN	ANNUNCIATOR	N/A	NOT APPLICABLE
AUX	AUXILIARY	NC	NORMALLY CLOSED
AWG	AMERICAN WIRE GAUGE	NEC	NATIONAL ELECTRICAL CODE
BC	BARE COPPER	NEMA	NATIONAL ELECT. MANUFAC. ASSOC.
BFG	BELOW FINISH GRADE	NFC	NATIONAL FIRE CODE
C	CONDUIT	NFPA	NATIONAL FIRE PROTECTION ASSOC.
CAB	CABINET	N.I.C.	NOT IN CONTRACT
CATB	COMMUNITY ANTENNA TELEVISION	NO	NORMALLY OPENED
CATV	CABLE TELEVISION	NTS	NOT TO SCALE
CLG	CEILING	PB	PUSHBUTTON
CNTR	CONTRACTOR	PNL	PANEL
C.O.	CONDUIT ONLY	PVC	POLYVINYL CHLORIDE CONDUIT
CRT	COMPUTER TERMINAL	(R)	RELOCATE
CU	COPPER	RECEP	RECEPTACLE
C/W	COMPLETE WITH	REQ	REQUIREMENT
DB	DECIBEL	SE	SERVICE ENTRANCE
DC	DIRECT CURRENT	SPEC	SPECIFICATIONS
DWG	DRAWING	SWBD	SWITCHBOARD
(E)	EXISTING	SWGR	SWITCHGEAR
EC	EMPTY CONDUIT	TTB	TELEPHONE TERMINAL BOARD
EMT	ELECTRICAL METALLIC TUBING	TTC	TELEPHONE TERMINAL CABINET
EX	EXPLOSION PROOF	TV	TELEVISION
FACP	FIRE ALARM CONTROL PANEL	TYP	TYPICAL
FT	FOOT	UG	UNDERGROUND
GND	GROUND	UP	UTAH POWER
GRC	GALVANIZED RIGID CONDUIT	UPS	UNINTERRUPTED POWER SUPPLY
HZ	HERTZ	V	VOLT (KV-KILOVOLT)
IMC	INTERMEDIATE METALLIC CONDUIT	W	WATTS
IN	INCH	W/	WITH
J-BOX	JUNCTION BOX	W/O	WITHOUT
KV	KILOVOLT	WP	WEATHERPROOF
KVA	KILOVOLT AMPERES	XFMR	TRANSFORMER
KVAR	KILOVARS	XP	EXPLOSION PROOF
KW	KILOWATT	1P	SINGLE-PHASE
LTG	LIGHTING	2P	TWO-POLE
MNF	MANUFACTURER	3P	THREE-POLE
MATV	MASTER ANTENNA TELEVISION	4P	FOUR-POLE
MAX	MAXIMUM	∅	PHASE
MB	MAIN BUS		

AUDIVISUAL SHEET INDEX

AUDIOVISUAL SYMBOL SCHEDULE

NOTES:

1. HEIGHT MEASURED TO BOTTOM OF THE DEVICE FROM FINISHED FLOOR.
2. HEIGHT MEASURED TO CENTER LINE OF THE DEVICE FROM THE FINISHED FLOOR.
3. REFER TO DIAGRAMS AND ELEVATIONS FOR CUSTOM ROUGH-IN REQUIREMENTS.
4. STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS.
5. ROUGH-IN TO BE HORIZONTAL.
6. ROUGH-IN TO BE INSTALLED ABOVE ACCESSIBLE CEILING.
7. ROUGH-IN TO BE INSTALLED ABOVE CEILING.
8. DEVICE IS TYPICALLY LOCATED IN MILLWORK, FURNITURE, BEHIND A MONITOR OR ABOVE A PROJECTOR.
9. ABOVE TABLE/COUNTER MOUNTED DEVICE.
10. REFER TO MANUFACTURER'S RECOMMENDED CABLE REQUIREMENTS FOR EXACT CABLE REQUIRED.
11. FOLLOW BICSI STANDARDS FOR CABLE ROUTING AND DISTANCES.
12. JUNCTION BOX INDICATED IS FOR MOST INSTALLATIONS. DEVICE WILL BE NOTED WHEN JUNCTION BOX SIZE REQUIREMENTS ARE DIFFERENT FROM INDICATED.
13. MOUNTING HEIGHT SHOWN IS FROM THE BOTTOM OF THE MONITOR TO THE FINISHED FLOOR

GENERAL SCHEDULE NOTES:

A. TYPICAL SYMBOL SCHEDULE. SOME SYMBOLS MAY NOT BE USED IN THIS SET OF DRAWINGS.
B. DEVICES WITH "A" ADJACENT TO IT INDICATE DEVICE TO BE COORDINATED WITH MILLWORK PRIOR TO ROUGH-IN.
C. ROUGH-IN JUNCTION BOX, CONDUIT AND MOUNTING HEIGHT ARE DEFAULT REQUIREMENTS. REFER TO PLANS FOR SPECIFIC NOTES AND REQUIREMENTS FOR A SPECIFIC INSTANCE.
D. CONDUIT STUBBED INTO ACCESSIBLE CEILING UNLESS OTHERWISE NOTED.
E. CABLE FROM DEVICE TO BE HOMERUN TO DESTINATION WITHOUT SPLICES.

SYMBOL	DESCRIPTION	J-BOX	CONDUIT	MOUNTING HEIGHT	CABLE TYPE	NOTES
M#	MICROPHONE INPUT, WALL PLATE (M1/M2 = D1, M3/M4 = D2)	D1,D2	(1) 3/4"	RECEPTACLE HEIGHT	(#) MA	2,4.
AX	AUXILIARY INPUT, 3.5MM/RCA CONNECTION, WALL PLATE	D1	(1) 3/4"	RECEPTACLE HEIGHT	(1) LA	2,4.
T TS	AUDIO OUTPUT, WALL PLATE, T = XLR MALE CONNECTION, TS = 1/4 TS CONNECTION	D1	(1) 3/4"	RECEPTACLE HEIGHT	(1) LA	2,4.
MA	MICROPHONE INPUT WITH AUXILIARY INPUT, WALL PLATE	D1	(1) 3/4"	RECEPTACLE HEIGHT	(1) MA (1) LA	2,4.
MC	MICROPHONE INPUT, CEILING	D1	(1) 3/4"	CEILING	(1) MA	2,4.
MB	TABLE TOP BOUNDARY MICROPHONE		(1) 1/2"	ON TABLE/ MILLWORK	(1) MA	2,3,9.
MW	WALL MOUNTED, PUSH TO TALK MICROPHONE	D1	(1) 3/4"	SWITCH HEIGHT	(1) MA	2,4.
MDT	DUAL MICROPHONE INPUT, WALL PLATE, UTP TRANSMITTER EXTENDER	D1	(1) 3/4"	RECEPTACLE HEIGHT	(1) UTP	2,4.
MAT	MICROPHONE AND AUXILIARY INPUT, WALL PLATE, UTP TRANSMITTER EXTENDER	D1	(1) 3/4"	RECEPTACLE HEIGHT	(1) UTP	2,4,11.
MXT	MICROPHONE AND AUXILIARY INPUT, WALL PLATE, UTP TRANSMITTER AUDIO ENCODER	D2	(1) 1"	RECEPTACLE HEIGHT	(1) UTP	2,4,11.
MT	DUAL MICROPHONE INPUT/OUTPUT WALL PLATE, UTP TRANSMITTER AUDIO ENCODER	D1	(1) 1"	RECEPTACLE HEIGHT	(1) UTP	2,4,11.
M2D	DUAL MICROPHONE INPUT/OUTPUT WALL PLATE, UTP TRANSMITTER AUDIO ENCODER	D2	(1) 1"	RECEPTACLE HEIGHT	(1) UTP	2,4,11.
M4D	FOUR MICROPHONE INPUT WALL PLATE, UTP TRANSMITTER AUDIO ENCODER	D2	(1) 1"	RECEPTACLE HEIGHT	(1) UTP	2,4,11.
AXT	BLUETOOTH AND AUXILIARY INPUT, WALL PLATE, UTP TRANSMITTER AUDIO ENCODER	D2	(1) 1"	SWITCH HEIGHT	(1) UTP	2,4,11.
CI	CREWCOM HEADSET INPUT, WALL PLATE	D1	(1) 3/4"	SWITCH HEIGHT	(1) MA	2,4.
CIS	CREWCOM WALL STATION, WALL PLATE	D3	(1) 3/4"	SWITCH HEIGHT	(1) MA	2,4.
BT	BLUETOOTH, WALL PLATE, AUDIO EXTENDER	D1	(1) 1"	SWITCH HEIGHT	(1) UTP	2,4,11.
VG	VGA INPUT, WALL PLATE	D1	(1) 1 1/4"	RECEPTACLE HEIGHT	(1) VG	2,4.
HD	HDMI INPUT, WALL PLATE	D1	(1) 1 1/4"	RECEPTACLE HEIGHT	(1) HD (1) LA	2,4.
HV	HDMI AND VGA INPUT, WALL PLATE	D2	(1) 1 1/4"	RECEPTACLE HEIGHT	(1) HD (1) VG	2,4.
EN#	AVoIP ENCODER, WALL PLATE (# IDENTIFIES UNIQUE PLATES)	SCH	(1) 1"		(1) UTP	2,4,11.
DC#	AVoIP DECODER, WALL PLATE (# IDENTIFIES UNIQUE PLATES)	SCH	(1) 1"		(1) UTP	2,4,11.
TxH	HDBaseT, HDMI INPUT TRANSMITTER, WALL PLATE	D1	(1) 1"	RECEPTACLE HEIGHT	(1) STP	2,4,11.
TxD	HDBaseT, HDMI AND VGA TRANSMITTER, WALL PLATE	D2	(1) 1"	RECEPTACLE HEIGHT	(1) STP	2,4,11.
TxM	HDBaseT, HDMI, DISPLAY PORT AND/OR VGA TRANSMITTER BOX, SURFACE MOUNTED			IN MILLWORK/ UNDER TABLE	(1) STP	2,4,11.
TxT	HDBaseT CATEGORY INPUT, WALL PLATE	D1	(1) 1"	RECEPTACLE HEIGHT	(1) STP	2,4,11.
RxH	HDBaseT, HDMI RECEIVER, WALL PLATE	D1	(1) 1"	AS NOTED	(1) STP	2,4,11.
US	USB INPUT, WALL PLATE, UTP EXTENSION	D1	(1) 1"	RECEPTACLE HEIGHT	(1) STP	2,4,11.
Rx	HDBaseT RECEIVER DEVICE, SURFACE MOUNTED		(1) 1"	IN MILLWORK/ UNDER TABLE	(1) STP	2,4,8,11.
CHV	HDMI AND VGA TRANSMITTER, WALL PLATE (CLASSROOM SYSTEM)	D2	(1) 1 1/4"	RECEPTACLE HEIGHT	(1) STP	2,4,11.
CHD	DUAL HDMI TRANSMITTER, WALL PLATE (CLASSROOM SYSTEM)	D2	(1) 1 1/4"	RECEPTACLE HEIGHT	(1) STP	2,4,11.
HDU	HDMI AND USB TRANSMITTER, WALL PLATE	D1	(1) 1"	RECEPTACLE HEIGHT	(2) STP	2,4,11.
CAL	2-WAY INTERCOMMUNICATION PUSHBUTTON STATION	D1	(1) 3/4"	SWITCH HEIGHT	AS NOTED	2,7,10.
CSA	CLASSROOM SOUND AMPLIFICATION SYSTEM		(1) 1 1/4" (1) 1"	IN MILLWORK/ AS NOTED		2,3.
IR	INFRARED SENSOR, WALL/CEILING	D1	(1) 3/4"	CEILING	(1) UTP OR (1) CT	2,6,11.
ALS	ASSISTIVE LISTENING SYSTEM ANTENNA/EMITTER, WALL/CEILING	A1	(1) 1"	AS NOTED	AS NOTED	2,6.
AT	AV ANTENNA, WALL/CEILING	D1	(1) 1"	AS NOTED	(1) AT	2,6.
V	VOLUME CONTROL	D1	(1) 1"	SWITCH HEIGHT	(1) S16	2,4.
SV	VOLUME CONTROL WITH SOURCE SELECTOR	D2	(1) 1"	SWITCH HEIGHT	(1) S16 (1) UTP	2,4,9,11.
TPT	TOUCH PANEL, TABLE TOP		(1) 1"	AS NOTED	(1) UTP	
TP#	TOUCH PANEL, WALL MOUNTED, REFER TO SPECIFICATIONS FOR TOUCH PANEL TYPE AND ORIENTATION	SCH	(1) 1"	SWITCH HEIGHT	(1) UTP	2,4,5,11.
KP#	KEYPAD, WALL MOUNTED, REFER TO SPECIFICATIONS FOR KEYPAD TYPE	SCH	(1) 1"	SWITCH HEIGHT	(1) CT or (1) UTP	2,4,10.
RS#	ROOM SCHEDULING TOUCHPANEL	SCH	(1) 1"	SWITCH HEIGHT	(1) STP	
TB#	TABLE/FURNITURE BOX, NUMBER REFERS TO TYPE REFER TO SPECIFICATIONS/DIAGRAMS FOR REQUIREMENTS			IN MILLWORK	SEE DIAGRAMS.	
	LOUDSPEAKER, WALL MOUNTED	C#	(1) 3/4"	AS NOTED	(1) S16	2,4.
	LOUDSPEAKER, ARRAY, CABINET, CLUSTER	A0	(1) 3/4"	AS NOTED	(1) S12	2,4.
	LOUDSPEAKER, CEILING RECESSED OR PENDANT	C#	(1) 3/4"	CEILING	(1) S16	2,7.
SB#	SOUND BAR, REFER TO SPECIFICATIONS FOR TYPE	D1	(1) 1"	UNDER DISPLAY OR AS NOTED		1,5.
X##	DISPLAY, REFER TO SPECIFICATIONS FOR DISPLAY TYPE AND SIZE	PER SCH	(1) 1 1/4" (1) 1"	AS NOTED	AS NOTED	4,13.
SC#	PROJECTION SCREEN REFER TO SPECIFICATIONS FOR SCREEN TYPE AND SIZE	(2) A0	(1) 3/4"	CEILING OR WALL	(1) UTP	2,7.
P#	PROJECTOR	D2	(1) 1 1/4"	CEILING OR AS NOTED	AS NOTED	2,6.
	AV CAMERA	C#	(1) 1"	AS NOTED	AS NOTED	1.
	EQUIPMENT CABINET/RACK	C#	SCH	AS NOTED		
CLG	EQUIPMENT CEILING RACK	C#	SCH	AS NOTED		
	EQUIPMENT 2-POST CABINET/RACK	C#	SCH	AS NOTED		
GP#	PASS THROUGH PLATE, # = NUMBER OF GANGS	D#	(1) 1-1/2"	AS NOTED		2.
J	JUNCTION BOX, ABOVE ACCESSIBLE CEILING	A0	AS NOTED	AS NOTED		
C##	CUSTOM JUNCTION BOX, REFER TO SCHEDULE AND DIAGRAM FOR EQUIPMENT, JUNCTION BOX AND CONDUIT	SCH	SCH	AS NOTED	AS NOTED	
FB	FLOOR BOX - REFER TO ELECTRICAL DOCUMENTS FOR MAKE/MODEL - REFER TO DIAGRAMS FOR AV DEVICE LAYOUT		AS NOTED		AS NOTED	
PT	POKE THRU - REFER TO ELECTRICAL DOCUMENTS FOR MAKE/MODEL - REFER TO DIAGRAMS FOR AV DEVICE LAYOUT		(1) 1 1/2"		AS NOTED	
	CONDUIT RUN CONCEALED IN WALL OR CEILING		AS NOTED			
	CONDUIT RUN CONCEALED IN FLOOR OR GROUND		AS NOTED			
	CONDUIT UP		AS NOTED			
	CONDUIT DOWN		AS NOTED			
	CONDUIT STUB LOCATION		AS NOTED			
	CONDUIT/CIRCUIT CONTINUATION		AS NOTED			
####	DEVICE/EQUIPMENT TYPE CALLOUT					
## #	ELEVATION VIEW TAG (# = VIEW NUMBER, ## = SHEET NUMBER)					
# ##	DIAGRAM CALLOUT TAG					

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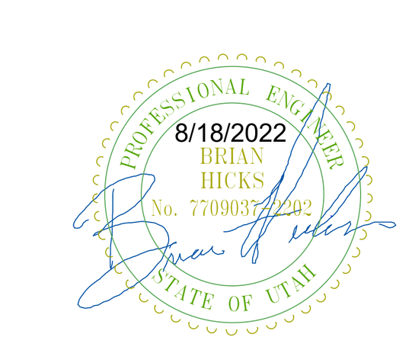
SEAL



MHTN PROJECT NO. 2022539

Original drawing is 30 x 42. Do not scale contents of this drawing.

REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

NO.	DATE	DESCRIPTION

ISSUE
CONSTRUCTION DOCUMENTS
AUG. 18, 2022

SHEET NAME
SYMBOLS, SCHEDULES AND NOTES

SHEET NUMBER
T001

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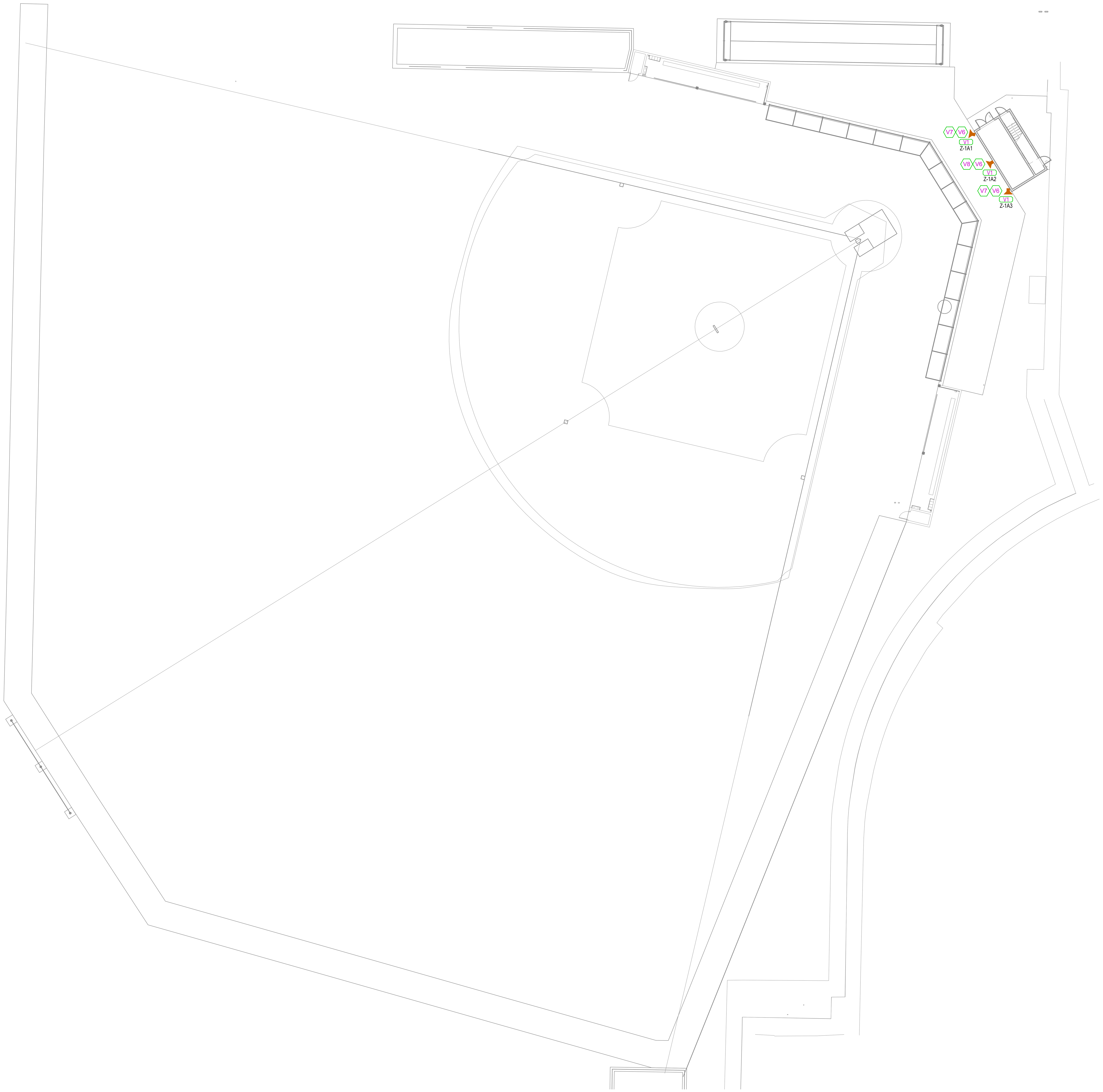
SHEET KEYNOTES

V6	INSTALL JUNCTION BOX FLUSH IN BUILDING FACADE 6" BELOW TOP OF PARAPET WALL. PROVIDE WEATHERTIGHT COVER WITH CORD GRIP FOR CABLE EXIT.
V7	AIM LOUDSPEAKER FOR OPTIMAL COVERAGE OF BLEACHER SEATING AREA.
V8	AIM LOUDSPEAKER FOR OPTIMAL COVERAGE OF FIELD.



AUDIOVISUAL SITE PLAN
SCALE = 1/16" = 1'-0"

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OGDEN SCHOOL DISTRICT
OGDEN HIGHSCHOOL SOFTBALL FIELD RENOVATION

2828 HARRISON BLVD,
OGDEN, UT 84403

SEAL

8/18/2022
PROFESSIONAL ENGINEER
BRIAN HICKS
No. 7709037-2202
STATE OF UTAH

MHTN PROJECT NO. 2022539

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ISSUE
CONSTRUCTION DOCUMENTS
AUG. 18, 2022

SHEET NAME
AUDIOVISUAL SITE PLAN

SHEET NUMBER
T101

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SHEET KEYNOTES

V1	MOUNT DIRECTIONAL ANTENNA ON STRAIGHT SECTION OF THREADED PIPE OR GOOSENECK MIC STAND FROM PRESS BOX CEILING. COORDINATE FINAL LOCATION WITH LIGHTING AND OTHER CEILING ELEMENTS. EXTEND FROM CEILING TO AIM OUT WINDOWS TO MAXIMIZE COVERAGE ON FIELD.
V2	LOCATE 'TPT' TOUCH PANEL AND 'MB' MAIN ANNOUNCER MICROPHONE AT THE MAIN ANNOUNCER / CONTROL POSITION. PROVIDE GROMMETED HOLE IN COUNTERTOP OR STAND COUNTERTOP AWAY FROM WALL FOR CABLE PASS-THROUGH TO WALL INPUT PLATES LOCATED BELOW. NEATLY DRESS AND LOOM ALL CABLING.
V3	MOUNT 'ALS' ANTENNA ABOVE ACCESSIBLE CEILING VIA CEILING BRACKET. COORDINATE FINAL LOCATION WITH LIGHTING AND OTHER CEILING ELEMENTS. POSITION TO MAXIMIZE HOME BLEACHER COVERAGE.
V4	INSTALL AT RECEPTACLE HEIGHT UNDER COUNTER TOP. PROVIDE GROMMETED HOLE IN COUNTERTOP OR STAND COUNTERTOP AWAY FROM WALL FOR CABLE PASS-THROUGH TO WALL INPUT PLATES BELOW.

ENLARGED AUDIOVISUAL ANNOUNCER BOOTH SECOND FLOOR PLAN
SCALE = 1/2" = 1'-0"

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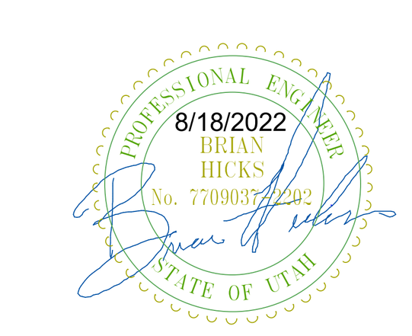

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SHEET NAME
ENLARGED ANNOUNCER BOOTH PLAN

SHEET NUMBER
T301

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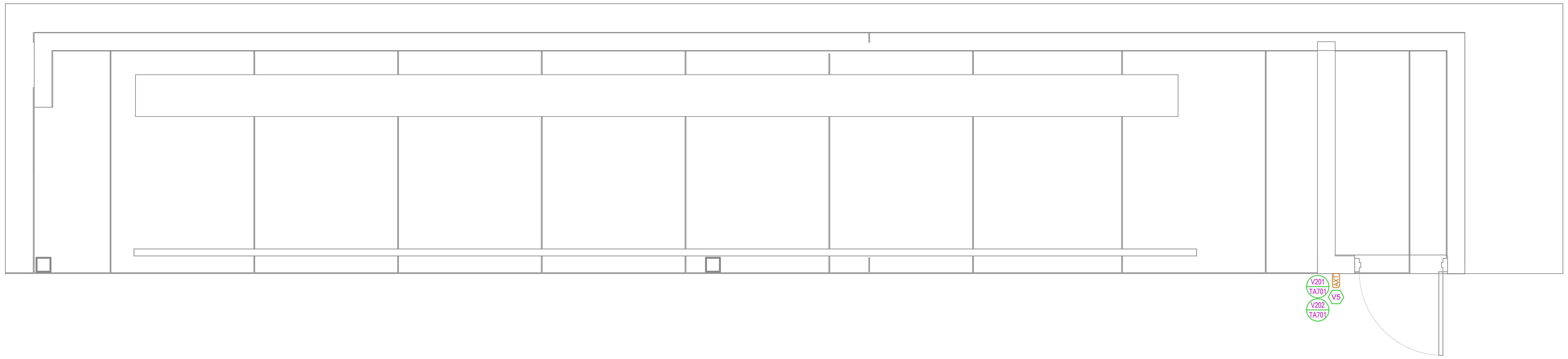
SHEET KEYNOTES

V5 PROVIDE EXTRA DUTY WEATHERPROOF 2-GANG JUNCTION BOX (HUBBELL ML2500G OR EQUAL) FOR BLUETOOTH / AUXILIARY AUDIO INPUT PLATE.



1 ENLARGED AUDIOVISUAL NORTH DUGOUT PLAN (HOME DUGOUT)
SCALE = 1/2" = 1'-0"

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SHEET NAME
ENLARGED DUGOUT PLAN

SHEET NUMBER
T302

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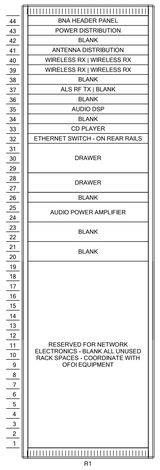

DIAGRAM V100 EQUIPMENT RACK ELEVATIONS

NTS

DIAGRAM NOTES:

1. LOCATE INSIDE EQUIPMENT RACK 'R1'.
2. LOCATE PRESS BOX COUNTER TOP AT MAIN ANNOUNCER POSITION.
3. LOCATE SURFACE OF EXTERIOR WALL/FENCE FACING FIELD AT HOME DUGOUT SIDE. INPUT PLATE/BLUETOOTH TRANSCIEVER PLATE SHALL BE INSTALLED FACING THE PLAYING FIELD WITH A NON-METALLIC WEATHERPROOF COVER TO ALLOW FOR USE WHILE COVER IS CLOSED.
4. SETUP CONTROL OUTPUT TO TRIGGER RELAY CONTROLLED OUTLET FOR POWER AMPLIFIER ON/OFF.

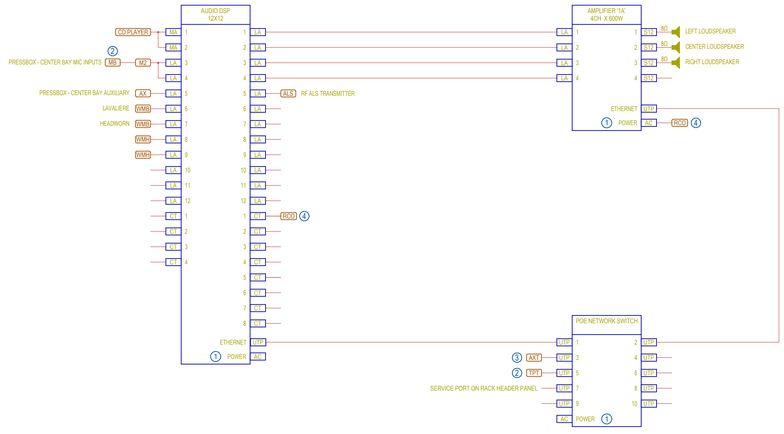

DIAGRAM V201 BASEBALL FIELD/PRESSBOX AUDIO SIGNAL FLOW

NTS

GENERAL DIAGRAM NOTES

CONDUIT SHALL BE RUN POINT-TO-POINT FROM EQUIPMENT RACK JUNCTION BOX TO EACH DEVICE BACK BOX OR PULL BOX FOR DEVICES. PROVIDE PULL STRINGS IN ALL CONDUITS AND TETHER AT EACH TERMINATING JUNCTION BOX END.

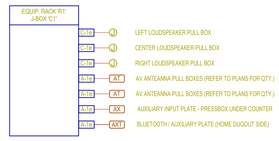

DIAGRAM V202 BASEBALL FIELD / PRESS BOX CONDUIT RISER

NTS

DIAGRAM NOTES:

1. NAMING ON INPUT PLATES SHALL COORDINATE WITH EACH INPUT FOR THAT SYSTEM. EXAMPLE. WALL PLATE WITH HDMI AND AUDIO SHALL BE LABELED VIDEO 1 AND AUDIO 1.

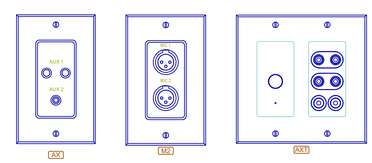

DIAGRAM V602 TYPICAL AV WALL PLATES

NTS

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SHEET NAME
AUDIOVISUAL DIAGRAMS

SHEET NUMBER
T701

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