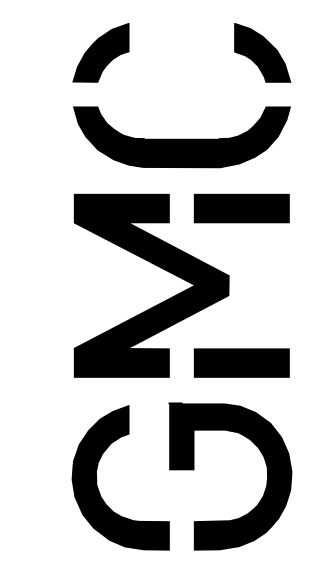




TUSCALOOSA COUNTY DHR

TUSCALOOSA COUNTY PUBLIC BUILDING AUTHORITY

GOODWYN MILLS CAWOOD, LLC	ARCHITECTURE, INTERIORS, CIVIL, LANDSCAPE
TUCKER JONES ENGINEERS ASSOCIATED, P.C.	STRUCTURAL ENGINEERING
BERNHARD TME	MECHANICAL & PLUMBING ENGINEERING
JACKSON RENFRO & ASSOCIATES, INC.	ELECTRICAL ENGINEERING



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TITLE SHEET

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sheet _____ of _____

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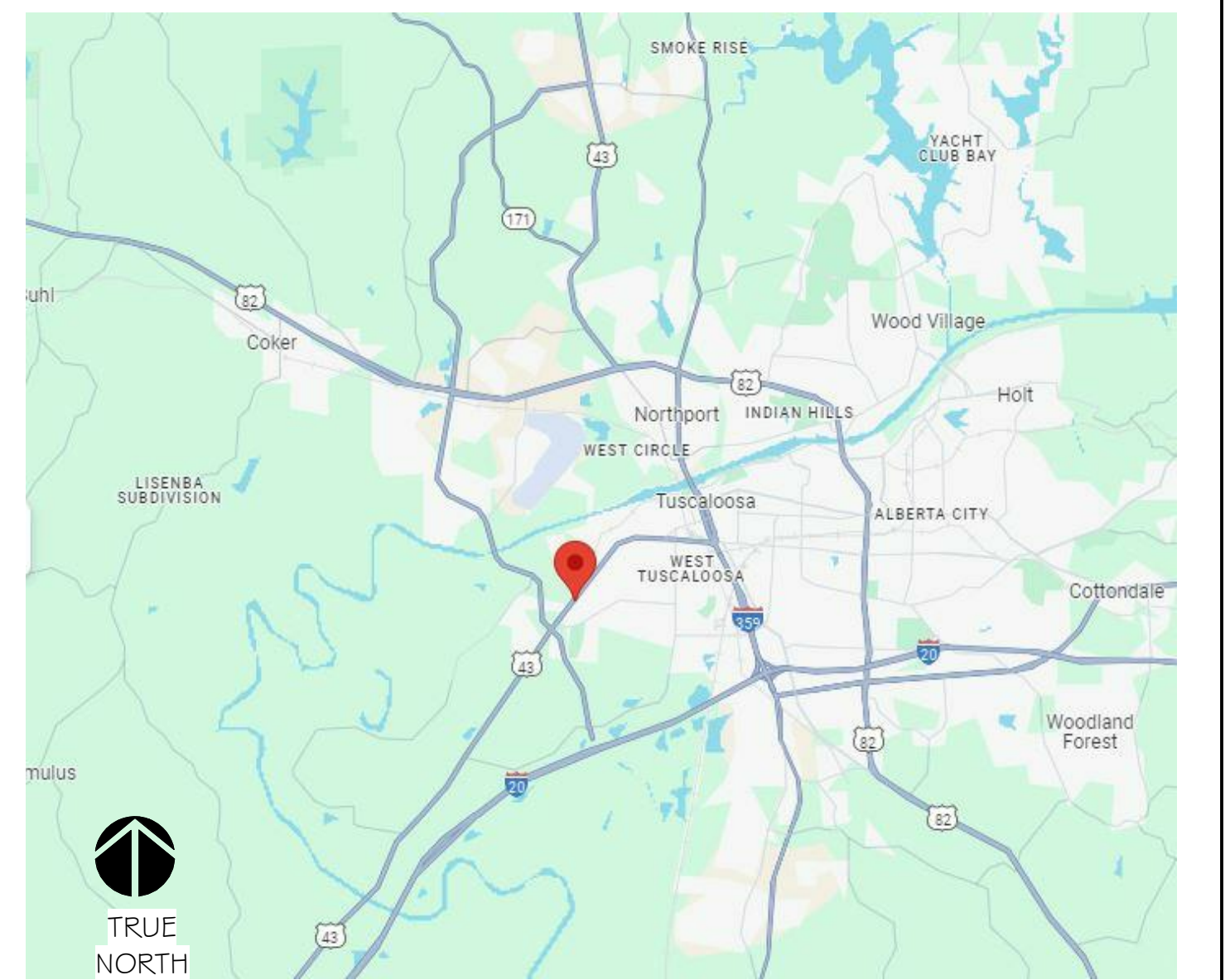
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VICINITY MAP



LOCATION MAP



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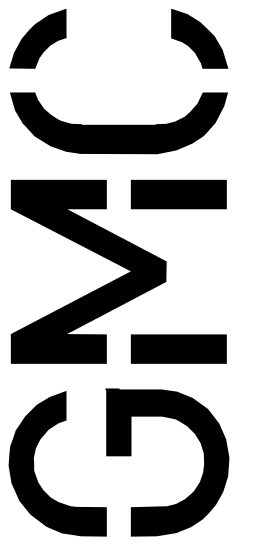
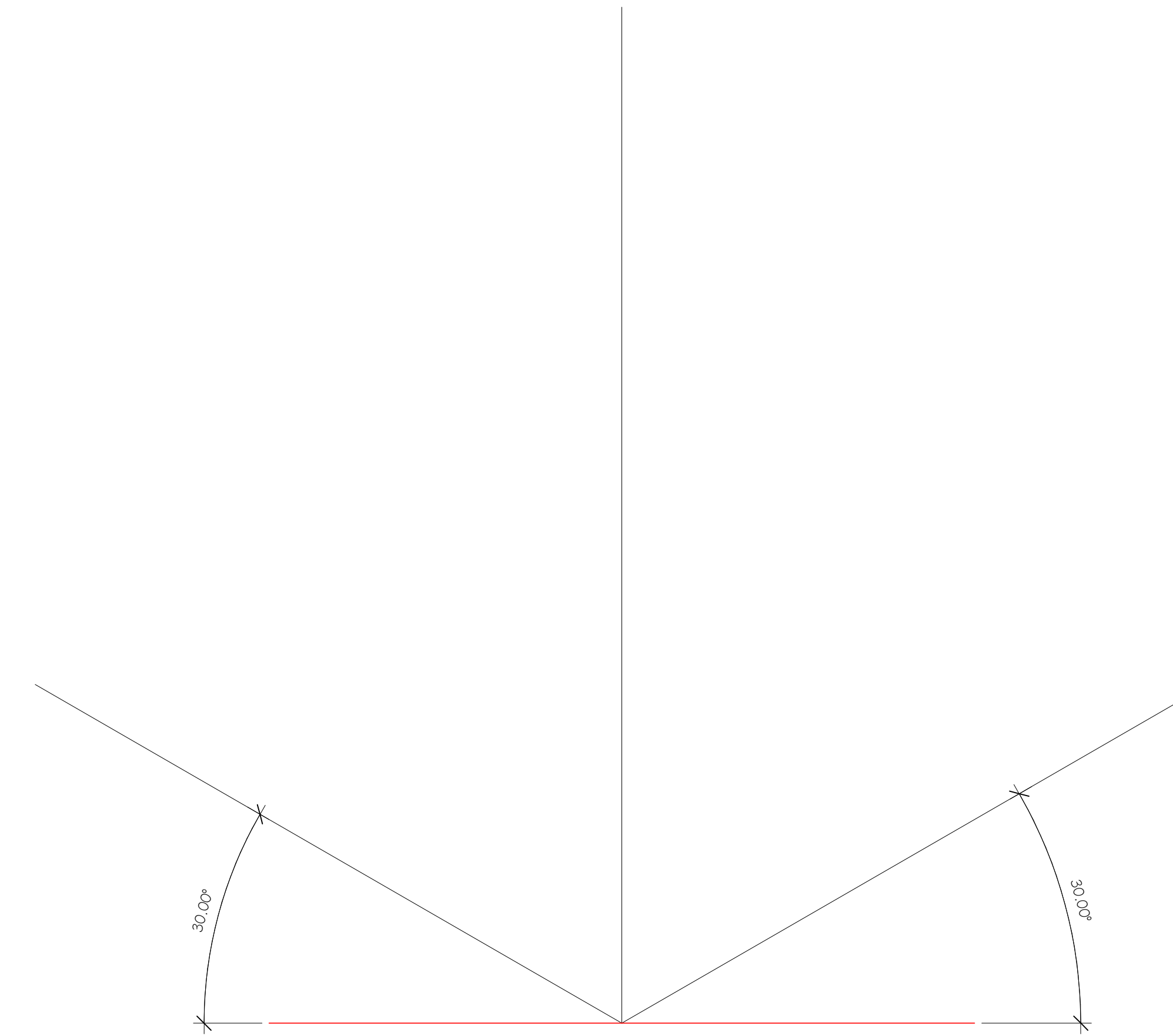
ABBREVIATIONS

Table of abbreviations with columns for code, description, and unit/quantity. Includes terms like ACC, ACI, ACT, ADD, AFF, ALT, ALUM, APPROX, ARCH, ADJ, etc.

ANNOTATION SYMBOLS

Table of annotation symbols including room names, column lines, elevation marks, door symbols, window symbols, and wall symbols. Includes symbols like 101, A, 677.52, A1.01, etc.

MOCKUP WALL



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GENERAL INFORMATION & MOCKUP WALL

G1.03
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MOUNTING HEIGHT NOTES

- 01. **TYPICAL HEIGHTS:** MOUNTING HEIGHTS INDICATED HEREIN ARE TYPICAL MOUNTING HEIGHTS FOR DEVICE INDICATED. MOUNTING HEIGHTS FOR SUBMITTED PRODUCTS MAY VARY BY MANUFACTURER. THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCY BETWEEN THE INDICATED MOUNTING HEIGHT AND THE MANUFACTURERS RECOMMENDED MOUNTING HEIGHT, PRIOR TO INSTALLATION OF THE DEVICE.
- 02. THE GENERAL CONTRACTOR SHALL REFER TO PLANS FOR LOCATIONS OF DEVICES SHOWN HEREIN.
- 03. **ADA DEVICES:** ALL DEVICES AND FIXTURES NOTED AS "ADA" OR "ACCESSIBLE" SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT AND APPLICABLE BUILDING CODES.
- 04. **ELECTRICAL DEVICES:** SEE ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR REQUIRED MOUNTING HEIGHT OF ELECTRICAL DEVICES AND FIXTURES. WHERE CONFLICTS EXIST BETWEEN MOUNTING HEIGHTS INDICATED HEREIN AND THE REQUIREMENTS OF THE ELECTRICAL ENGINEER, THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO ROUGH-IN.
- 05. **MECHANICAL/PLUMBING DEVICES:** SEE MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR REQUIRED MOUNTING HEIGHT OF MECHANICAL AND PLUMBING DEVICES AND FIXTURES. WHERE CONFLICTS EXIST BETWEEN MOUNTING HEIGHTS INDICATED HEREIN AND THE REQUIREMENTS OF THE MECHANICAL ENGINEER, THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO ROUGH-IN.
- 06. INSTALL ADA / ANSI COMPLIANT UNDER LAVATORY GUARDS ON ALL EXPOSED SINK PIPING.
- 07. CONTRACTOR MUST MAINTAIN ON THE JOB SITE A COPY OF THE CURRENT ADAAG STANDARDS AND THE IBC CHAPTER 11 ACCESSIBILITY REQUIREMENTS.
- 08. DIMENSIONAL DESIGNATIONS OF +/- TO HAVE +/-1/2" TOLERANCE UNLESS OTHERWISE NOTED.
- 09. DESIGNATION FOR FINISHED FACE OF WALL (FFW) TO BE TAKEN FROM NEAREST CONTINUOUS SURFACE IN THE PLANE OF THE WALL (I.E. FACE OF FLOOR BASE IF FACE OF BASE EXTENDS BEYOND FACE OF WALL).

ABBREVIATIONS AND ACRONYMS

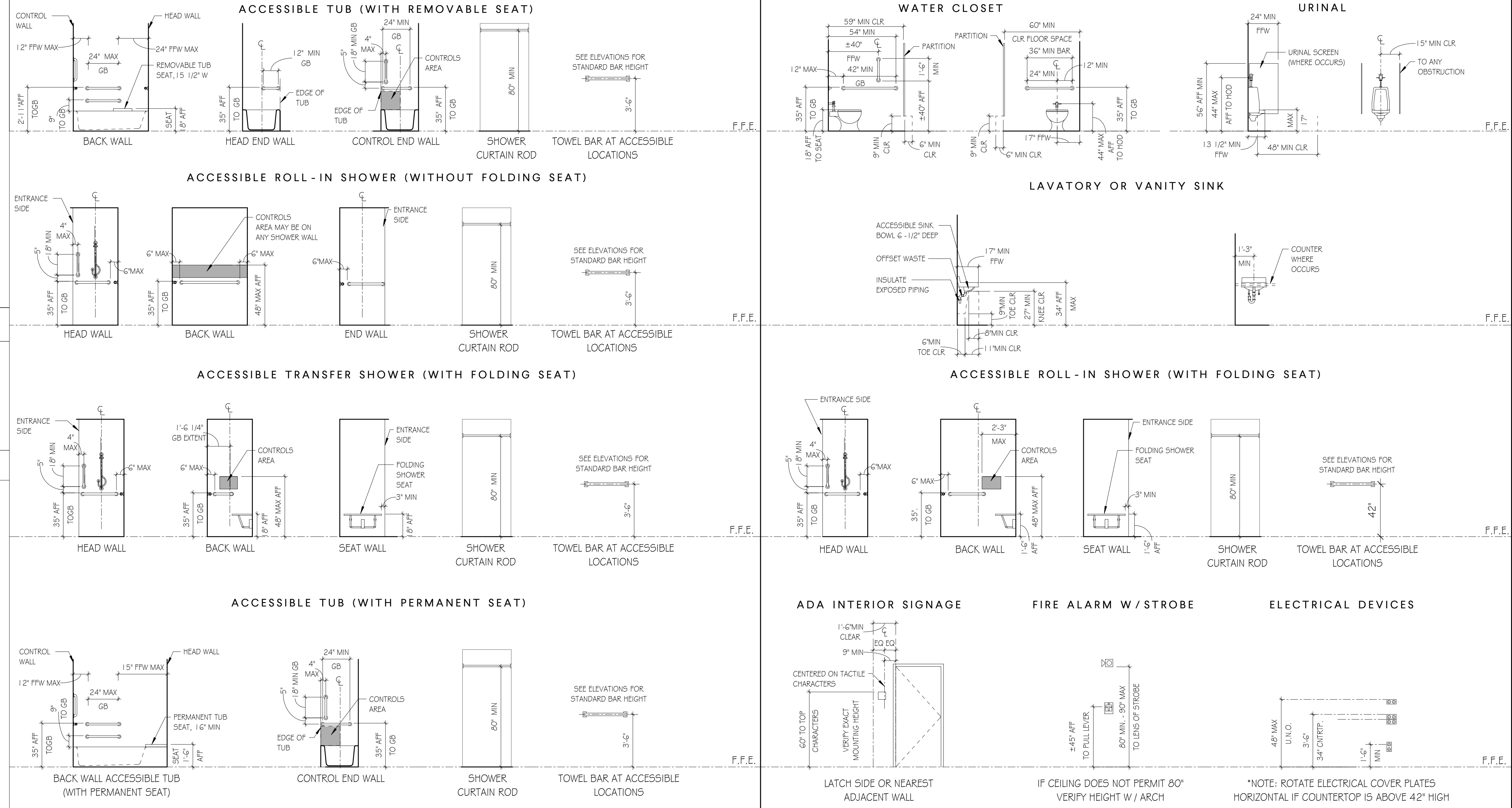
APF	ABOVE FINISHED FLOOR	MAX	MAXIMUM
BOGB	BOTTOM OF GRAB BAR	MIN	MINIMUM
FFE	FINISHED FLOOR ELEVATION	TOGB	TOP OF GRAB BAR
FFW	FINISH FACE OF WALL	WC	WATER CLOSET
GB	GRAB BAR	W	WITH
HOD	HIGHEST OPERABLE DEVICE	W/O	WITHOUT

TYPICAL TOILET LAYOUTS

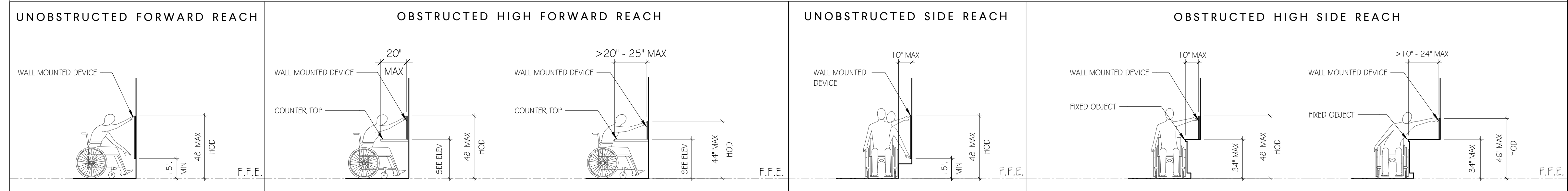
- NOTES:**
- LOCATE FLUSH ACTIVATION ON WIDE SIDE AT ALL TOILETS - LOCATE FLUSH VALVE BENEATH ADJACENT GRAB BARS.
 - SANITARY NAPKIN DISPENSERS TO BE LOCATED AT ALL FEMALE, UNISEX, & FAMILY TOILETS

TYPICAL ACCESSIBLE PLUMBING DETAILS - ELEVATION

SEE G1.12 FOR PLAN DETAILS

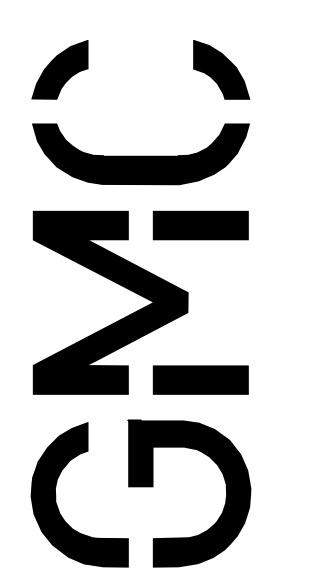


TYPICAL REACH RANGES



TYPICAL ACCESSIBLE MOUNTING HEIGHTS

VERIFY EXACT MOUNTING HEIGHT OF SUBMITTED DEVICE WITH ARCHITECT	
TOILET ACCESSORY TYPE	TOILET TISSUE HOLDER, TOILET TISSUE DISPENSER, PAPER TOWEL DISPENSER, WASTE RECEPTACLE, WASTE RECEPTACLE, WASTE RECEPTACLE, SOAP DISPENSER, SAFETY GRAB BAR
DRAWING DESIGNATION	TA01, TA08, TA11 SURFACE MOUNTED, TA15, TA20 18", TA24 24", TA21 36", TA25 12", TA22 42"
TOILET ACCESSORY TYPE	MIRROR AT ACCESSIBLE CONDITIONS, ROBE/COAT HOOK AT ACCESSIBLE LOCATIONS (SEE ELEVATIONS FOR STANDARD HOOK HT), TOILET SEAT COVER DISPENSER, TOILETRY SHELF, HAND DRYER, BABY CHANGING STATION, MOP AND BROOM HOLDER, FIRE EXTINGUISHER, FIRE EXTINGUISHER CABINET, E.W.C. (ACCESSIBLE), E.W.C. (STANDARD)
DRAWING DESIGNATION	TA23, TA26, TA50, TA55, TA60, FE, FEC



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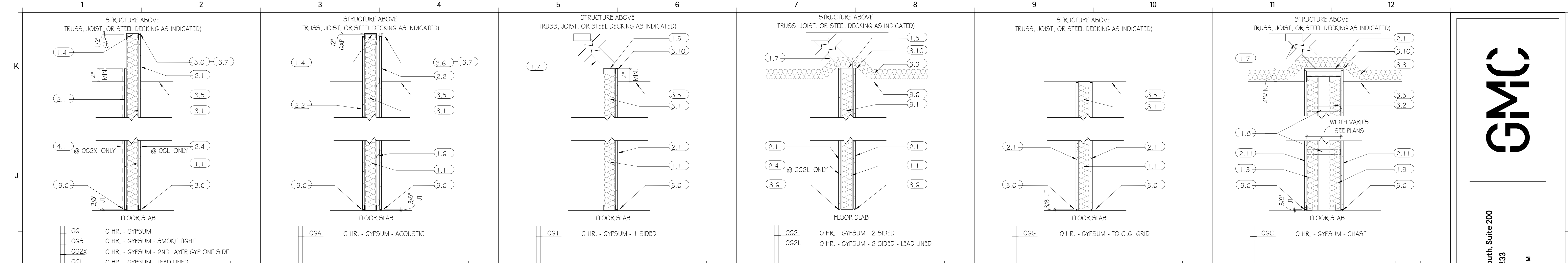
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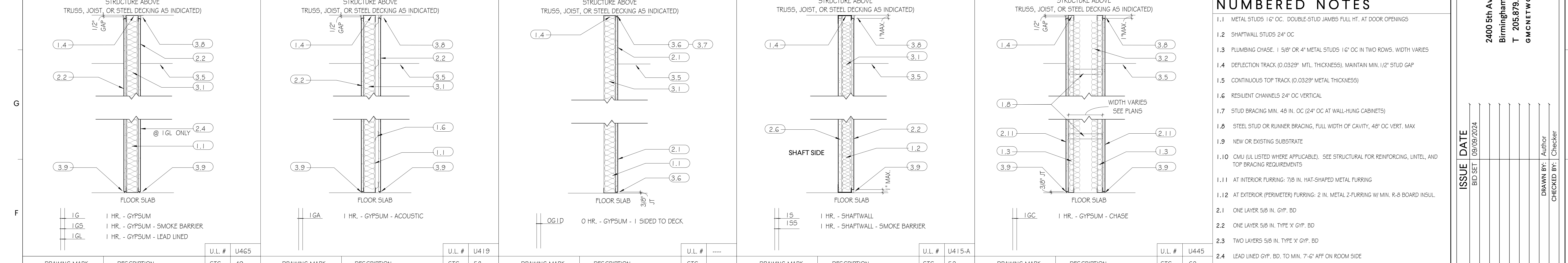


ACCESSIBILITY
INFORMATION

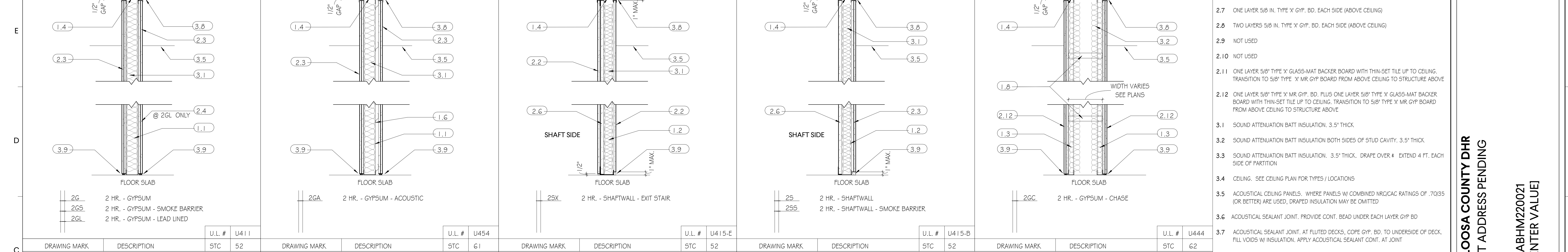
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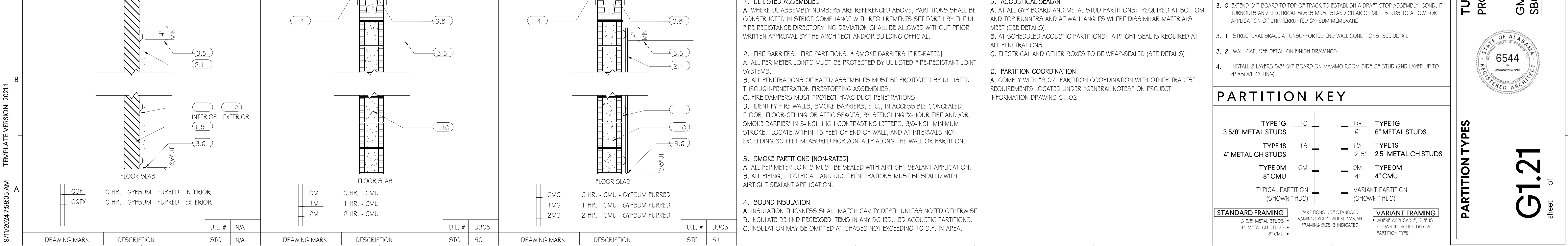
DRAWING MARK	DESCRIPTION	U.L. #	N/A
OG	0 HR. - GYPSUM		
OGS	0 HR. - GYPSUM - SMOKE TIGHT		
OG2X	0 HR. - GYPSUM - 2ND LAYER GYP ONE SIDE		
OGL	0 HR. - GYPSUM - LEAD LINED		



DRAWING MARK	DESCRIPTION	U.L. #	N/A
IG	1 HR. - GYPSUM		
IGS	1 HR. - GYPSUM - SMOKE BARRIER		
IGL	1 HR. - GYPSUM - LEAD LINED		



DRAWING MARK	DESCRIPTION	U.L. #	N/A
2G	2 HR. - GYPSUM		
2GS	2 HR. - GYPSUM - SMOKE BARRIER		
2GL	2 HR. - GYPSUM - LEAD LINED		



DRAWING MARK	DESCRIPTION	U.L. #	N/A
OGF	0 HR. - GYPSUM - FURRED - INTERIOR		
OGFx	0 HR. - GYPSUM - FURRED - EXTERIOR		

NUMBERED NOTES

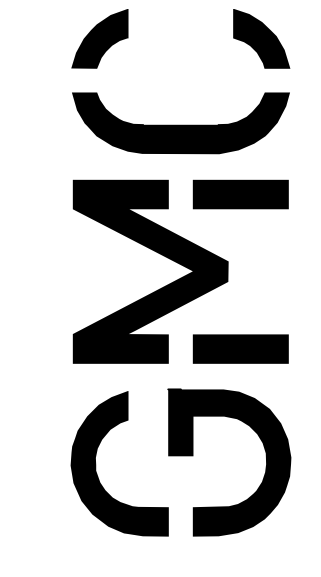
- METAL STUDS 16" OC. DOUBLE-STUD JAMBS FULL HT. AT DOOR OPENINGS
- SHAFTWALL STUDS 24" OC
- PLUMBING CHASE. 1 5/8" OR 4" METAL STUDS 16" OC IN TWO ROWS. WIDTH VARIES
- DEFLECTION TRACK (0.0329" MTL. THICKNESS). MAINTAIN MIN. 1/2" STUD GAP
- CONTINUOUS TOP TRACK (0.0329" METAL THICKNESS)
- RESILIENT CHANNELS 24" OC VERTICAL
- STUD BRACING MIN. 48 IN. OC (24" OC AT WALL-HUNG CABINETS)
- STEEL STUD OR RUNNER BRACING, FULL WIDTH OF CAVITY, 48" OC VERT. MAX
- NEW OR EXISTING SUBSTRATE
- CMU U/L LISTED WHERE APPLICABLE. SEE STRUCTURAL FOR REINFORCING, UNTEL, AND TOP BRACING REQUIREMENTS
- AT INTERIOR FURRING: 7/8 IN. HAT-SHAPED METAL FURRING
- AT EXTERIOR (PERIMETER) FURRING: 2 IN. METAL F-ZURRING W/ MIN. R-8 BOARD INSUL.
- ONE LAYER 5/8 IN. GYP. BD
- ONE LAYER 5/8 IN. TYPE X GYP. BD
- TWO LAYERS 5/8 IN. TYPE X GYP. BD
- LEAD LINED GYP. BD. TO MIN. 7'-6" AFF ON ROOM SIDE
- BASE LAYER LEAD-LINED GYP. BD. TO MIN. 7'-6" AFF ON ROOM SIDE
- 1 IN. THICK GYPSUM LINER PANEL
- ONE LAYER 5/8 IN. TYPE X GYP. BD. EACH SIDE (ABOVE CEILING)
- TWO LAYERS 5/8 IN. TYPE X GYP. BD. EACH SIDE (ABOVE CEILING)
- NOT USED
- NOT USED
- ONE LAYER 5/8" TYPE X GLASS-MAT BACKER BOARD WITH THIN-SET TILE UP TO CEILING. TRANSITION TO 5/8" TYPE X MR GYP BOARD FROM ABOVE CEILING TO STRUCTURE ABOVE
- ONE LAYER 5/8" TYPE X MR GYP. BD. PLUS ONE LAYER 5/8" TYPE X GLASS-MAT BACKER BOARD WITH THIN-SET TILE UP TO CEILING. TRANSITION TO 5/8" TYPE X MR GYP BOARD FROM ABOVE CEILING TO STRUCTURE ABOVE
- SOUND ATTENUATION BATT INSULATION. 3.5" THICK
- SOUND ATTENUATION BATT INSULATION BOTH SIDES OF STUD CAVITY. 3.5" THICK
- SOUND ATTENUATION BATT INSULATION. 3.5" THICK. DRAPE OVER 4" EXTEND 4 FT. EACH SIDE OF PARTITION
- CEILING. SEE CEILING PLAN FOR TYPES / LOCATIONS
- ACOUSTICAL CEILING PANELS. WHERE PANELS W/ COMBINED NRC/AC RATINGS OF .70/35 (OR BETTER) ARE USED, DRAPED INSULATION MAY BE OMITTED
- ACOUSTICAL SEALANT JOINT. PROVIDE CONT. BEAD UNDER EACH LAYER GYP BD
- ACOUSTICAL SEALANT JOINT. AT FLUTED DECKS, COPE GYP. BD. TO UNDERSIDE OF DECK. FILL VOIDS W/ INSULATION. APPLY ACOUSTICAL SEALANT CONT. AT JOINT
- UL LISTED FIRE-RESISTANCE RATED HW HEAD OF WALL JOINT
- UL LISTED FIRE-RESISTANCE RATED BW (BOTTOM OF WALL) JOINT
- EXTEND GYP BOARD TO TOP OF TRACK TO ESTABLISH A DRAFT STOP ASSEMBLY. CONDUIT TURNOUTS AND ELECTRICAL BOXES MUST STAND CLEAR OF MET. STUDS TO ALLOW FOR APPLICATION OF UNINTERRUPTED GYPSUM MEMBRANE
- STRUCTURAL BRACE AT UNSUPPORTED END WALL CONDITIONS. SEE DETAIL
- WALL CAP. SEE DETAIL ON FINISH DRAWINGS
- INSTALL 2 LAYERS 5/8" GYP BOARD ON MAMMO ROOM SIDE OF STUD (2ND LAYER UP TO 4" ABOVE CEILING)

GENERAL NOTES - PARTITIONS

- UL LISTED ASSEMBLIES**
A. WHERE UL ASSEMBLY NUMBERS ARE REFERENCED ABOVE, PARTITIONS SHALL BE CONSTRUCTED IN STRICT COMPLIANCE WITH REQUIREMENTS SET FORTH BY THE UL FIRE RESISTANCE DIRECTORY. NO DEVIATION SHALL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL BY THE ARCHITECT AND/OR BUILDING OFFICIAL.
- FIRE BARRIERS, FIRE PARTITIONS, & SMOKE BARRIERS [FIRE-RATED]**
A. ALL PERIMETER JOINTS MUST BE PROTECTED BY UL LISTED FIRE-RESISTANT JOINT SYSTEMS.
B. ALL PENETRATIONS OF RATED ASSEMBLIES MUST BE PROTECTED BY UL LISTED THROUGH-PENETRATION FIRESTOPPING ASSEMBLIES.
C. FIRE DAMPERS MUST PROTECT HVAC DUCT PENETRATIONS.
D. IDENTIFY FIRE WALLS, SMOKE BARRIERS, ETC., IN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING OR ATTIC SPACES, BY STENCILING "X-HOUR FIRE AND/OR SMOKE BARRIER" IN 3-INCH HIGH CONTRASTING LETTERS, 3/8-INCH MINIMUM STROKE. LOCATE WITHIN 15 FEET OF END OF WALL, AND AT INTERVALS NOT EXCEEDING 30 FEET MEASURED HORIZONTALLY ALONG THE WALL OR PARTITION.
- SMOKE PARTITIONS [NON-RATED]**
A. ALL PERIMETER JOINTS MUST BE SEALED WITH AIRTIGHT SEALANT APPLICATION.
B. ALL PIPING, ELECTRICAL, AND DUCT PENETRATIONS MUST BE SEALED WITH AIRTIGHT SEALANT APPLICATION.
- SOUND INSULATION**
A. INSULATION THICKNESS SHALL MATCH CAVITY DEPTH UNLESS NOTED OTHERWISE.
B. INSULATE BEHIND RECESSED ITEMS IN ANY SCHEDULED ACOUSTIC PARTITIONS.
C. INSULATION MAY BE OMITTED AT CHASES NOT EXCEEDING 10 S.F. IN AREA.
- ACOUSTICAL SEALANT**
A. AT ALL GYP BOARD AND METAL STUD PARTITIONS: REQUIRED AT BOTTOM AND TOP RUNNERS AND AT WALL ANGLES WHERE DISSIMILAR MATERIALS MEET (SEE DETAILS).
B. AT SCHEDULED ACOUSTIC PARTITIONS: AIRTIGHT SEAL IS REQUIRED AT ALL PENETRATIONS.
C. ELECTRICAL AND OTHER BOXES TO BE WRAP-SEALED (SEE DETAILS).
- PARTITION COORDINATION**
A. COMPLY WITH "9.07 PARTITION COORDINATION WITH OTHER TRADES" REQUIREMENTS LOCATED UNDER "GENERAL NOTES" ON PROJECT INFORMATION DRAWING G1.02

PARTITION KEY

TYPICAL PARTITION (SHOWN THUS)	VARIANT PARTITION (SHOWN THUS)																								
<table border="1"> <tr> <td>TYPE 1G 3 5/8" METAL STUDS</td> <td>1G</td> <td>TYPE 1G 6" METAL STUDS</td> <td>1G</td> </tr> <tr> <td>TYPE 1S 4" METAL CH STUDS</td> <td>1S</td> <td>TYPE 1S 2.5" METAL CH STUDS</td> <td>1S</td> </tr> <tr> <td>TYPE 0M 8" CMU</td> <td>0M</td> <td>TYPE 0M 4" CMU</td> <td>0M</td> </tr> </table>	TYPE 1G 3 5/8" METAL STUDS	1G	TYPE 1G 6" METAL STUDS	1G	TYPE 1S 4" METAL CH STUDS	1S	TYPE 1S 2.5" METAL CH STUDS	1S	TYPE 0M 8" CMU	0M	TYPE 0M 4" CMU	0M	<table border="1"> <tr> <td>TYPE 1G 6" METAL STUDS</td> <td>1G</td> <td>TYPE 1G 6" METAL STUDS</td> <td>1G</td> </tr> <tr> <td>TYPE 1S 2.5" METAL CH STUDS</td> <td>1S</td> <td>TYPE 1S 2.5" METAL CH STUDS</td> <td>1S</td> </tr> <tr> <td>TYPE 0M 4" CMU</td> <td>0M</td> <td>TYPE 0M 4" CMU</td> <td>0M</td> </tr> </table>	TYPE 1G 6" METAL STUDS	1G	TYPE 1G 6" METAL STUDS	1G	TYPE 1S 2.5" METAL CH STUDS	1S	TYPE 1S 2.5" METAL CH STUDS	1S	TYPE 0M 4" CMU	0M	TYPE 0M 4" CMU	0M
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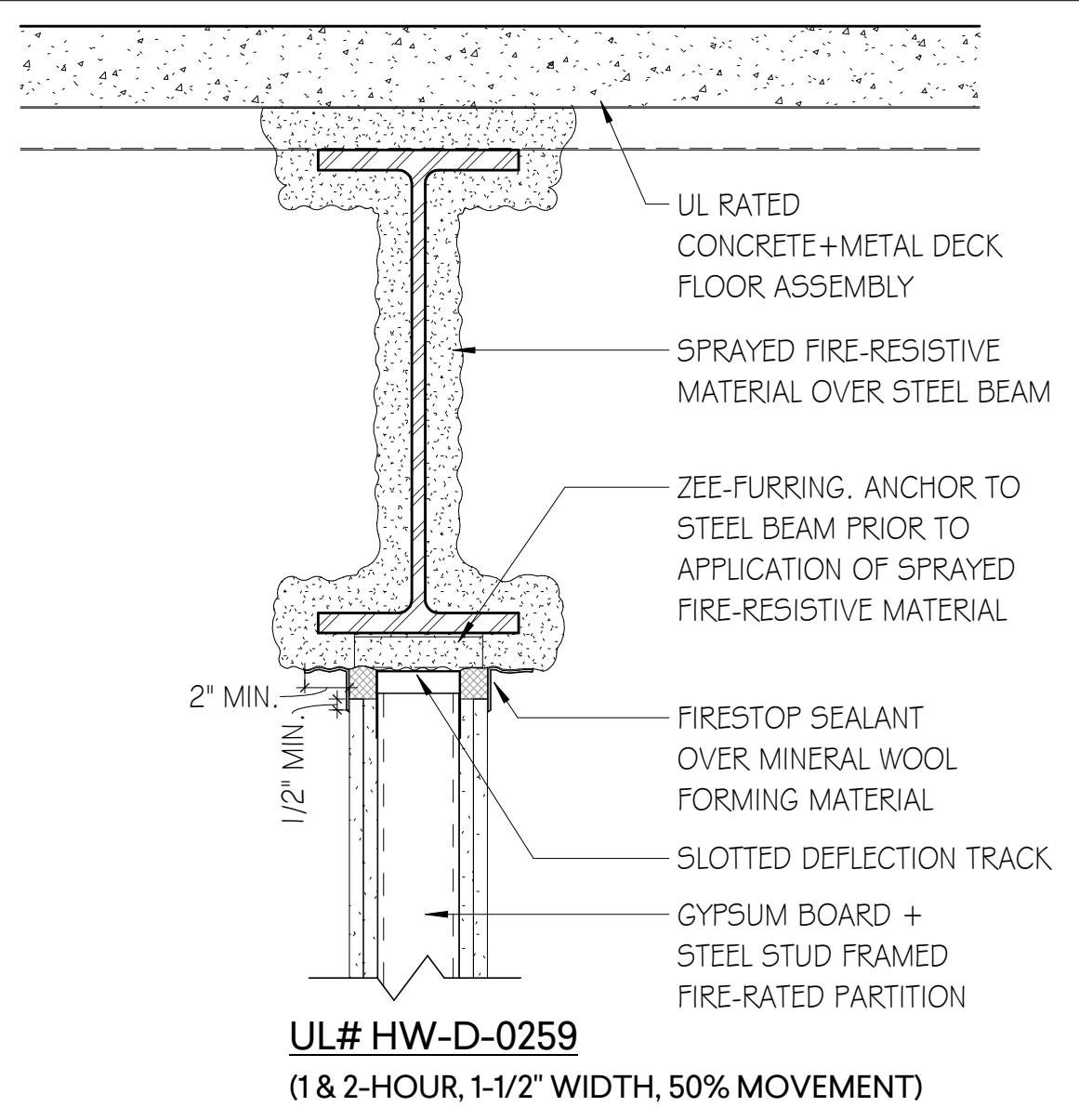
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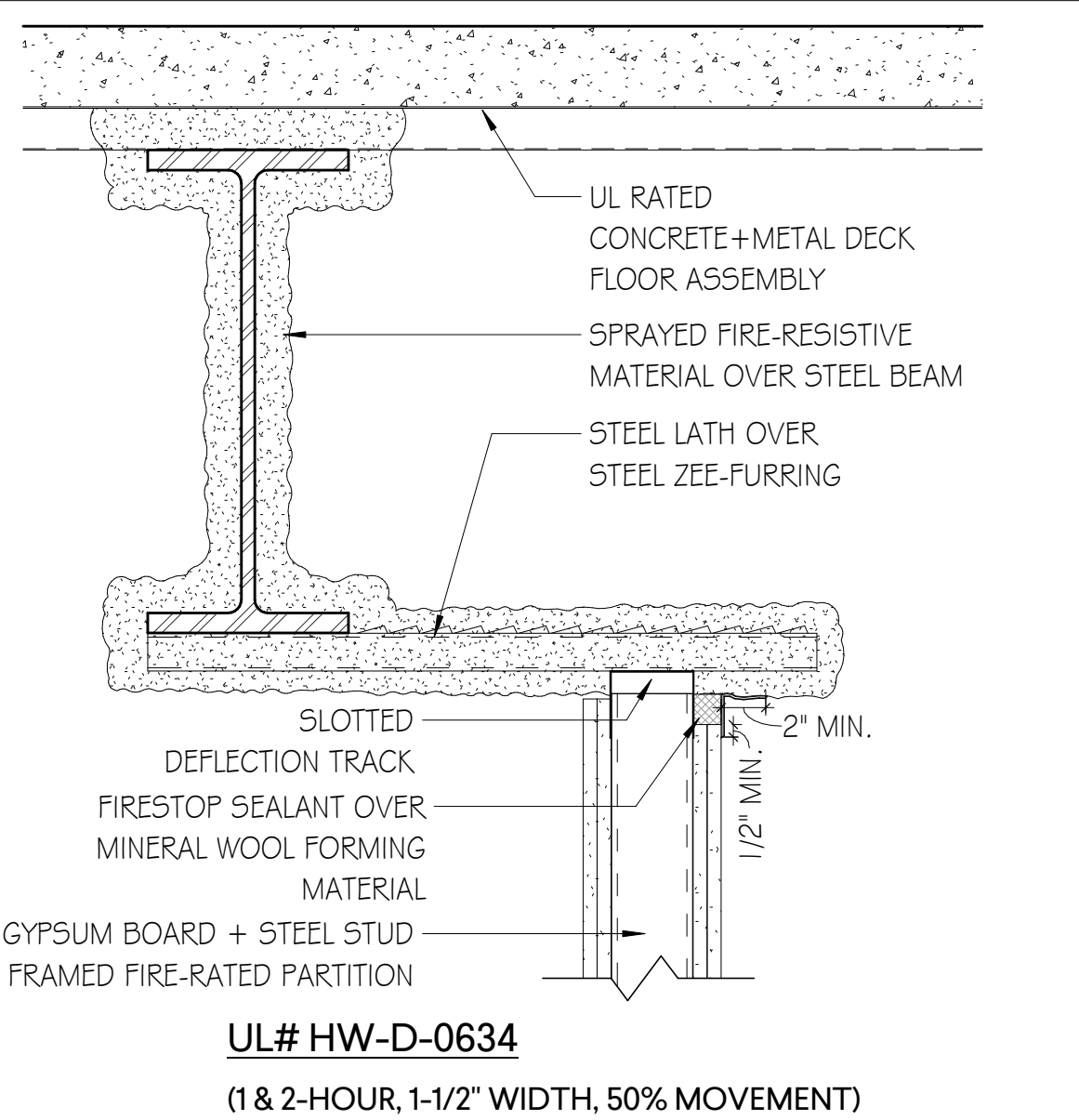
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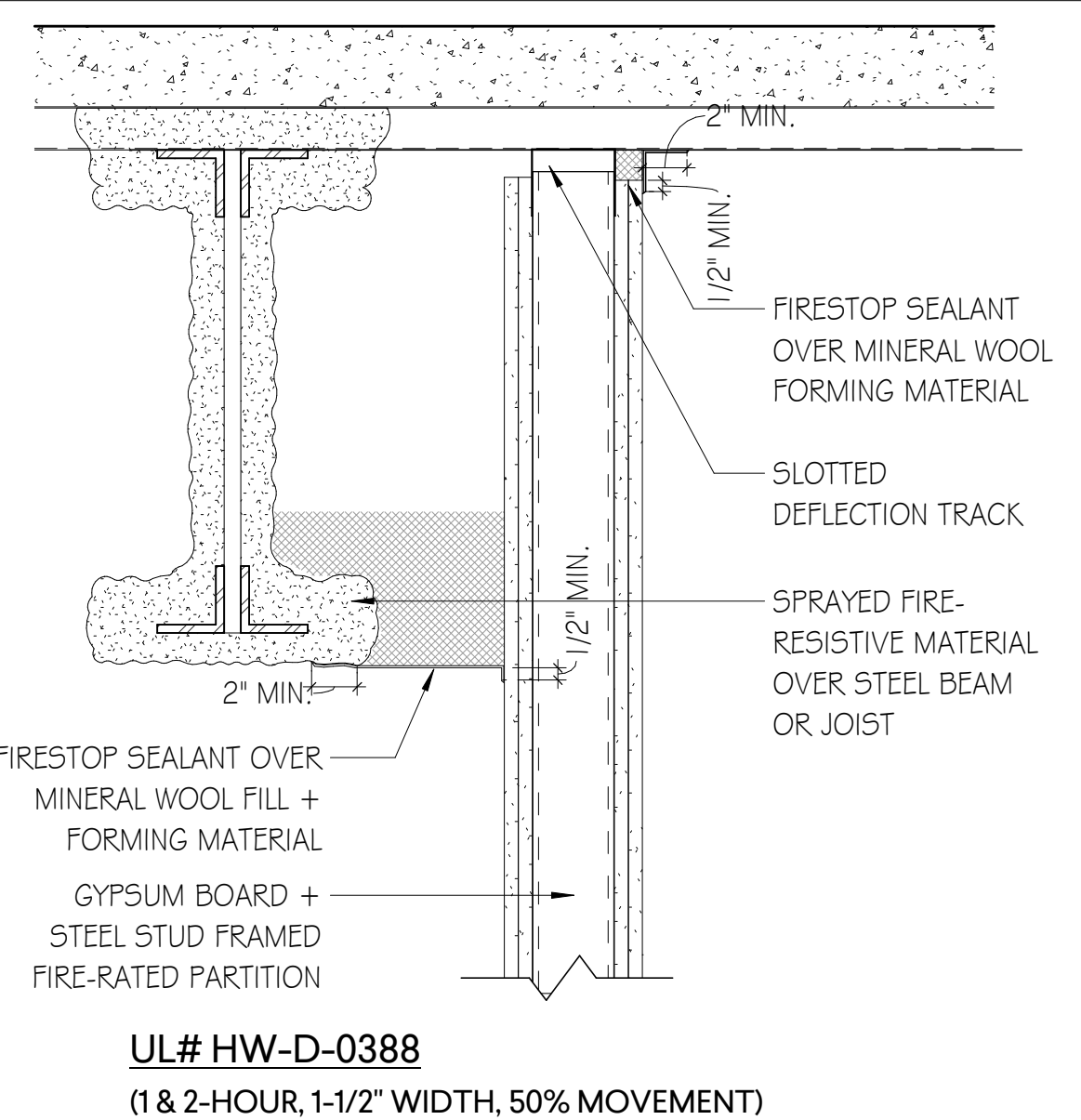
HEAD OF WALL FIRESTOPPING



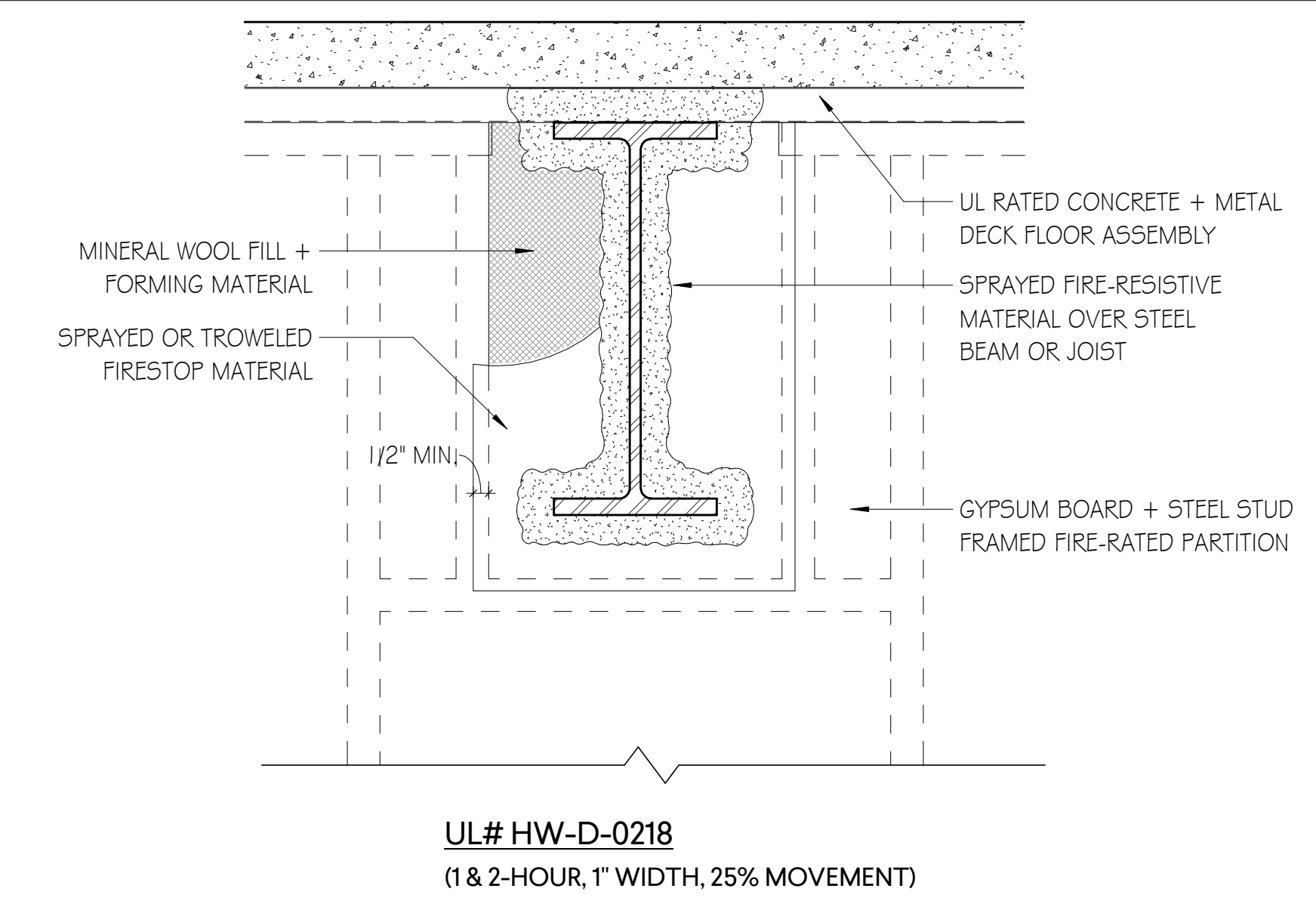
UL# HW-D-0259
 (1 & 2-HOUR, 1-1/2" WIDTH, 50% MOVEMENT)
H1 WALL PARALLEL TO BEAM C/L
 SCALE: 1 1/2" = 1'-0"



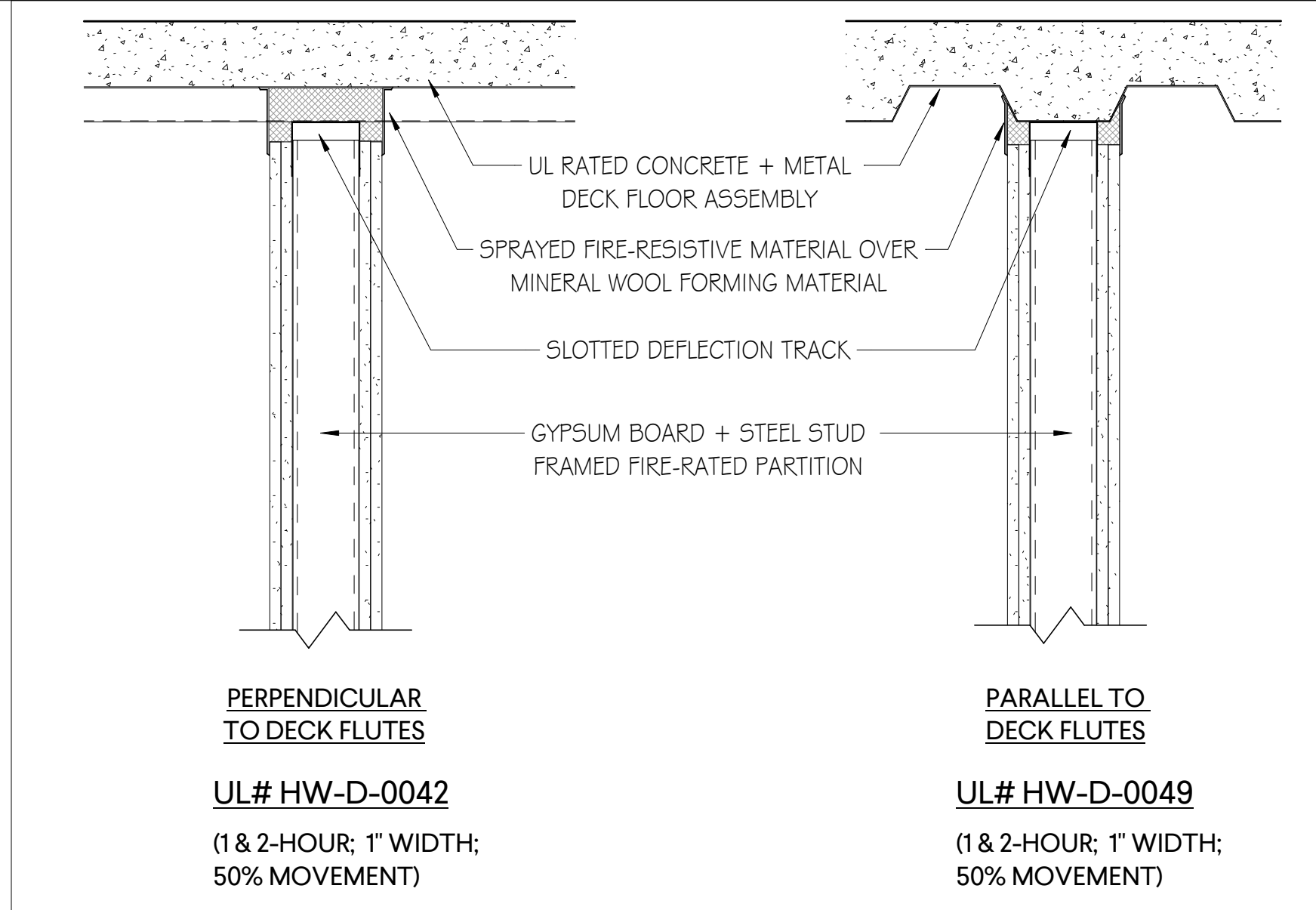
UL# HW-D-0634
 (1 & 2-HOUR, 1-1/2" WIDTH, 50% MOVEMENT)
H3 WALL OFFSET @ STL BEAM
 SCALE: 1 1/2" = 1'-0"



UL# HW-D-0388
 (1 & 2-HOUR, 1-1/2" WIDTH, 50% MOVEMENT)
H5 WALL OFFSET @ STL STRUCT.
 SCALE: 1 1/2" = 1'-0"



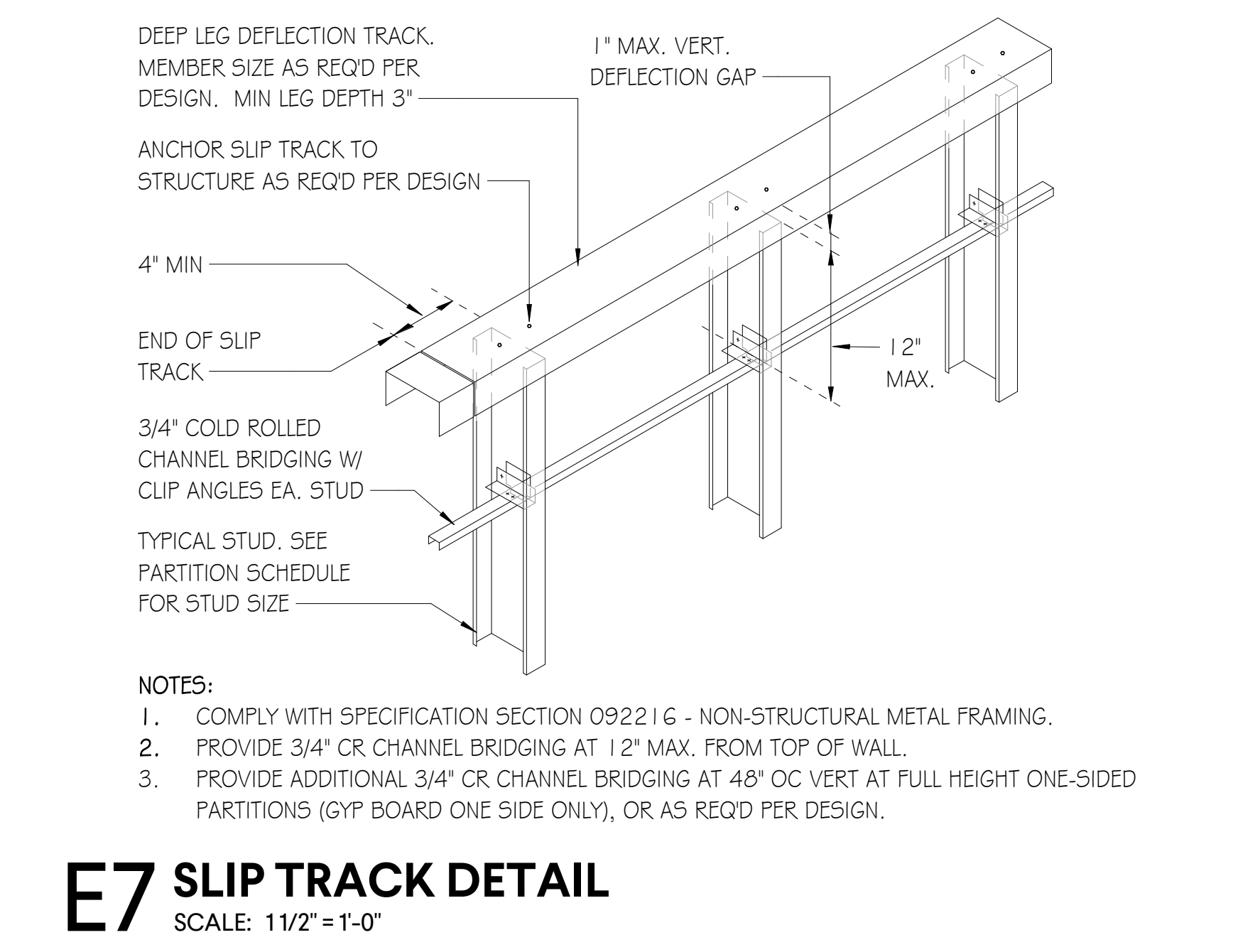
UL# HW-D-0218
 (1 & 2-HOUR, 1" WIDTH, 25% MOVEMENT)
H7 WALL PERPENDICULAR TO BEAM C/L
 SCALE: 1 1/2" = 1'-0"



UL# HW-D-0042 (1 & 2-HOUR; 1" WIDTH; 50% MOVEMENT)
UL# HW-D-0049 (1 & 2-HOUR; 1" WIDTH; 50% MOVEMENT)
H10 RATED PARTITION @ METAL DECK 2
 SCALE: 1 1/2" = 1'-0"

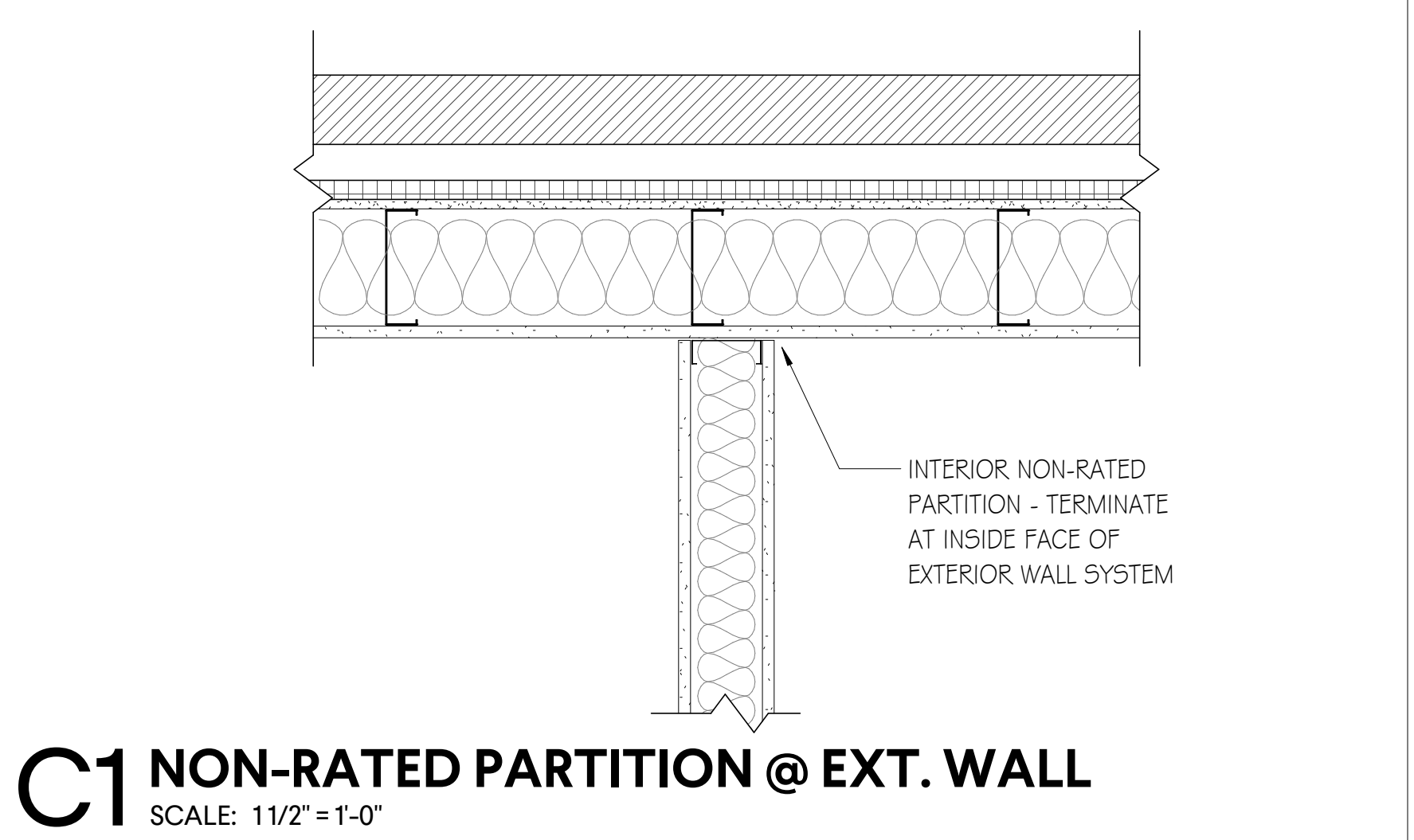


E7 SLIP TRACK DETAIL
 SCALE: 1 1/2" = 1'-0"

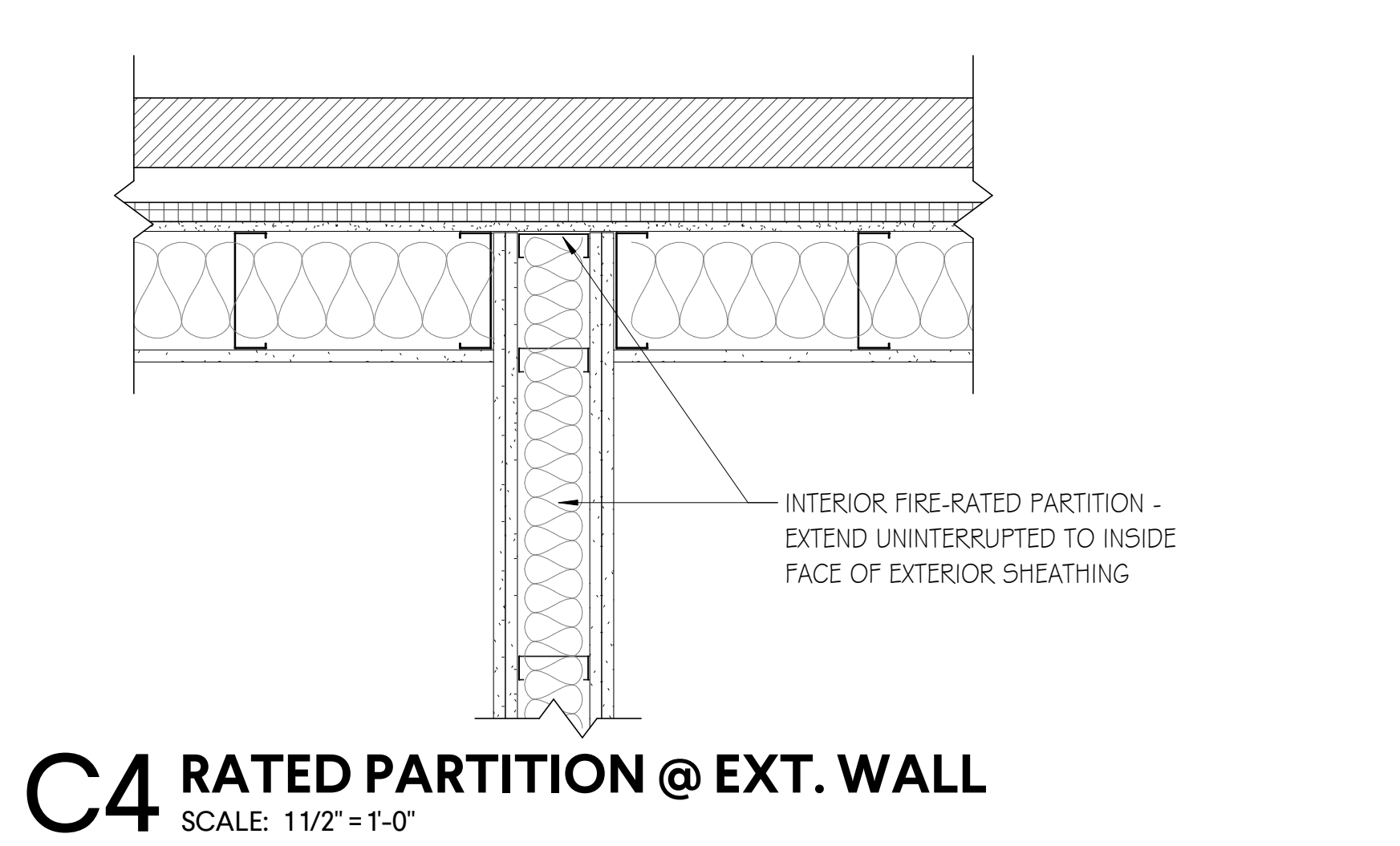


E10 BLOCKING DETAIL
 SCALE: 1 1/2" = 1'-0"

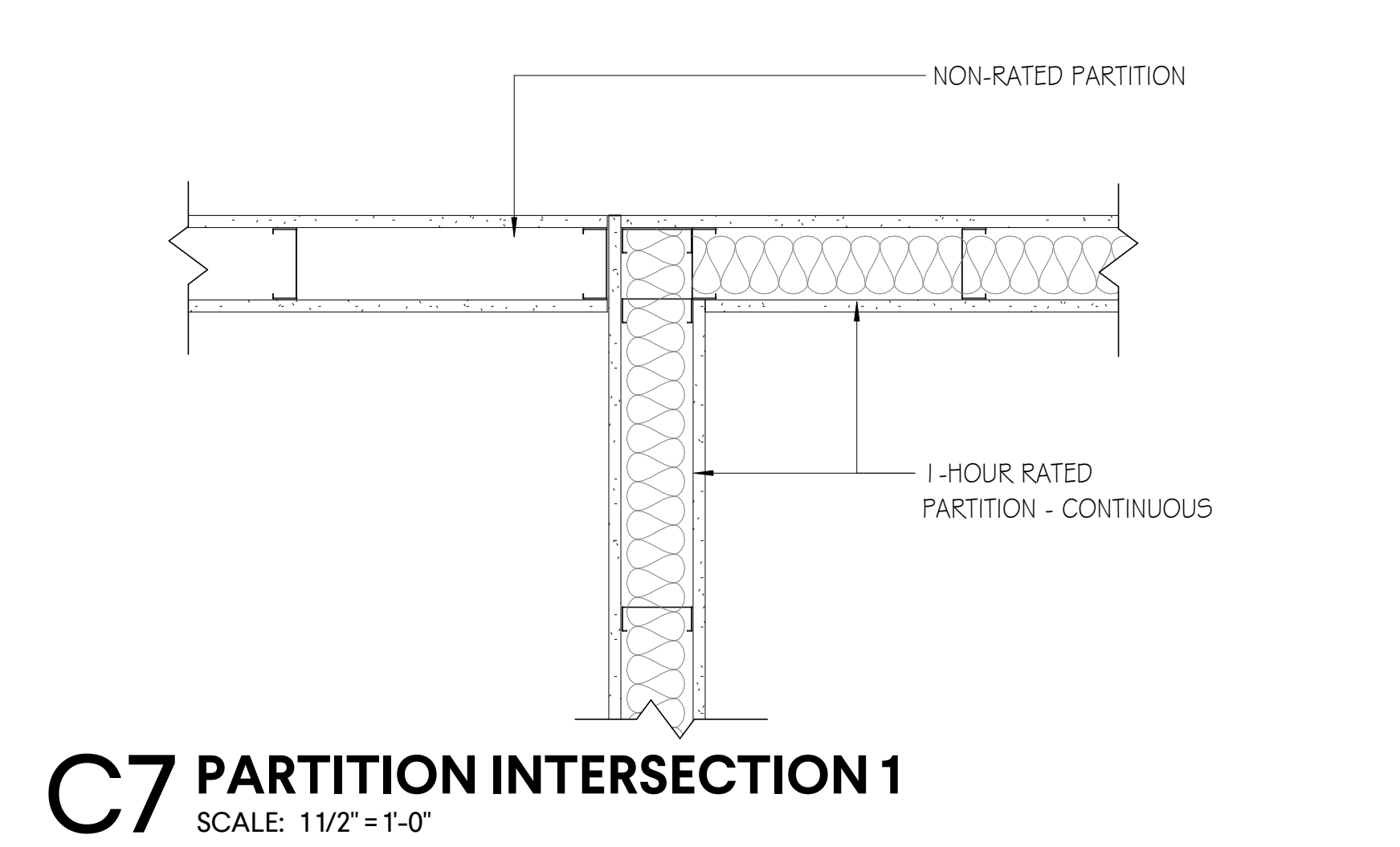
WALL PRIORITY DIAGRAMS



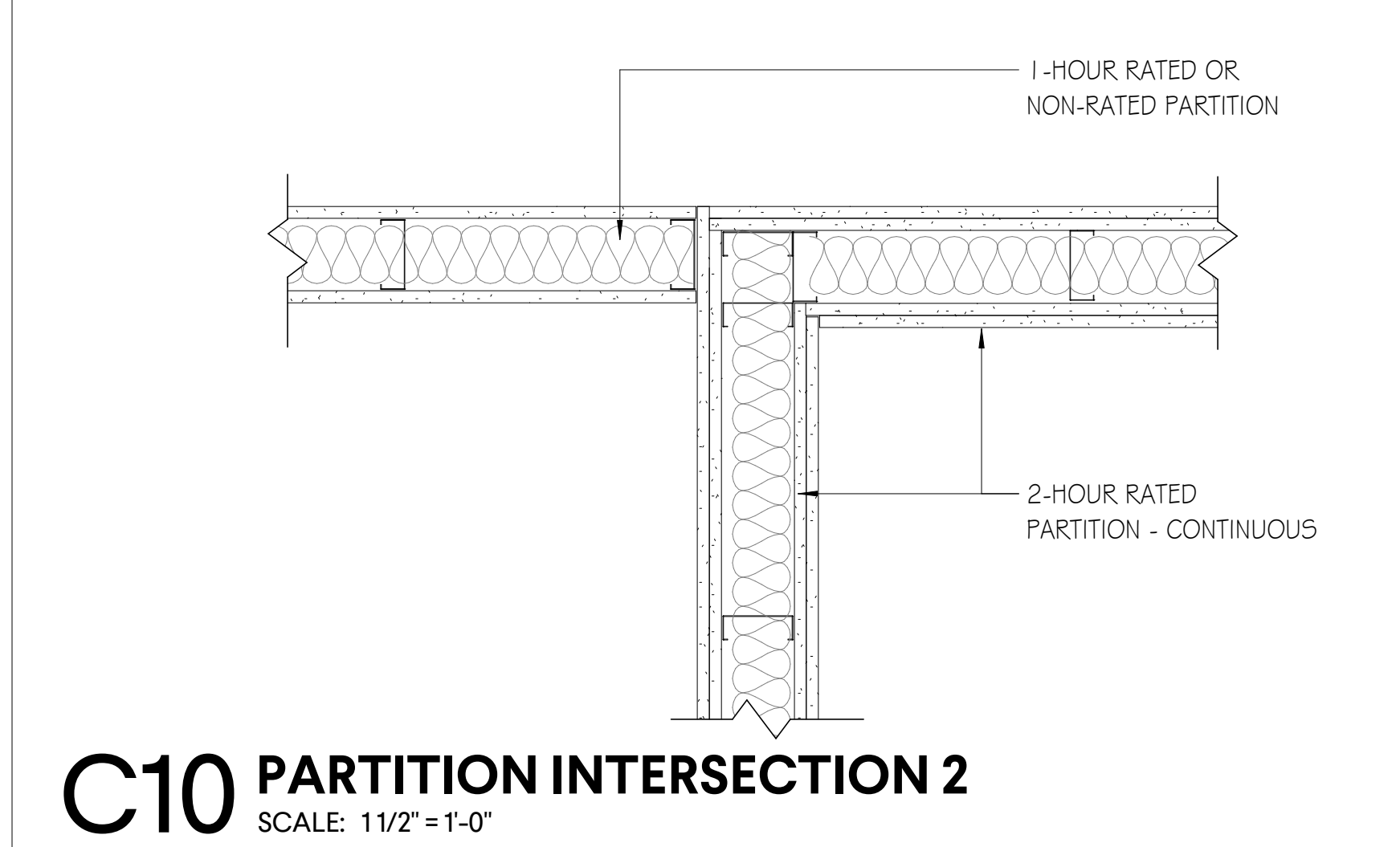
C1 NON-RATED PARTITION @ EXT. WALL
 SCALE: 1 1/2" = 1'-0"



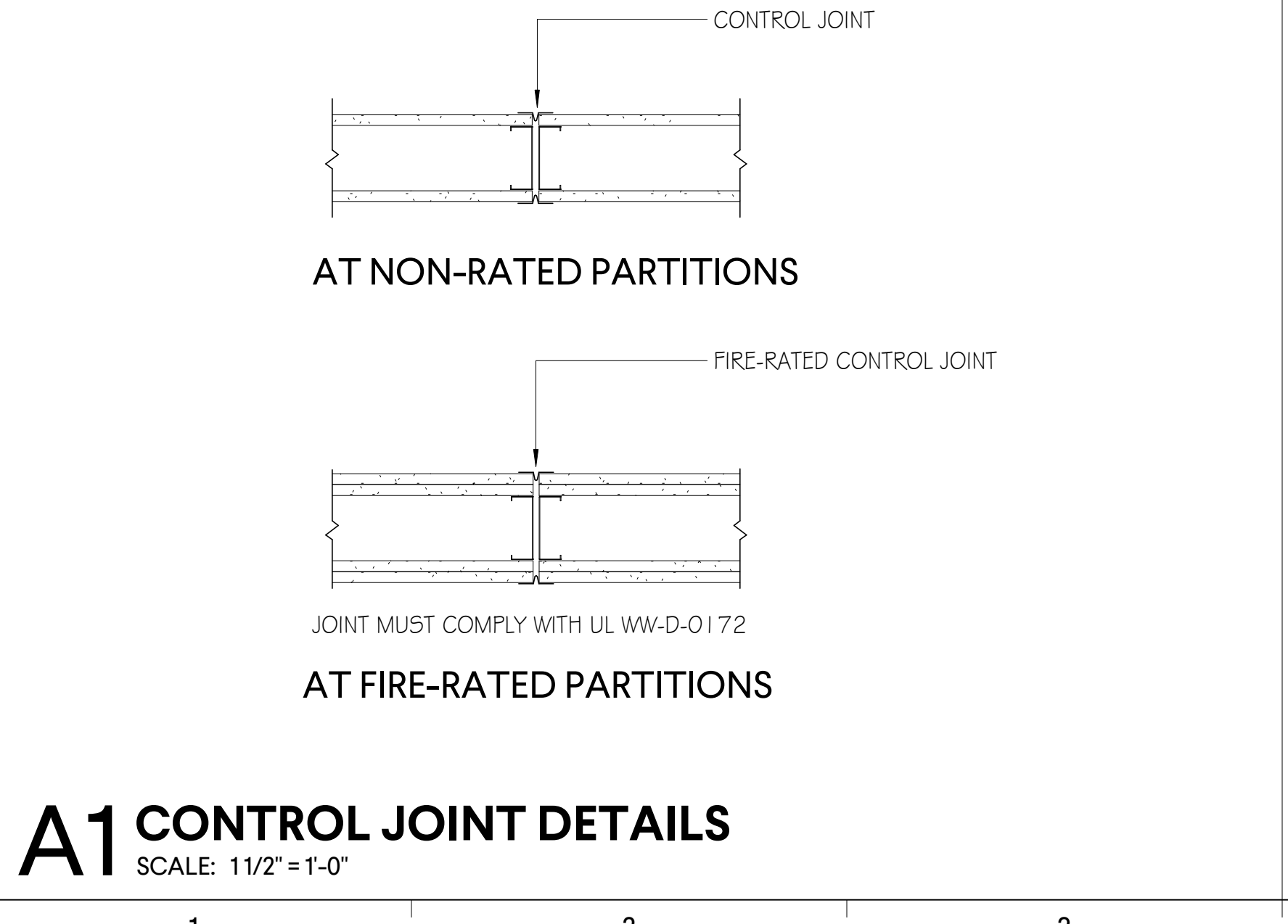
C4 RATED PARTITION @ EXT. WALL
 SCALE: 1 1/2" = 1'-0"



C7 PARTITION INTERSECTION 1
 SCALE: 1 1/2" = 1'-0"



C10 PARTITION INTERSECTION 2
 SCALE: 1 1/2" = 1'-0"



A1 CONTROL JOINT DETAILS
 SCALE: 1 1/2" = 1'-0"

STEEL STUD GAUGE FOR 3-5/8" & 6" HEADER, JAMB, AND SILL STUDS AND TRACKS		HEIGHT "H"							
		< 8'	8'-9'	9'-10'	10'-11'	11'-12'	12'-13'	13'-14'	14'-15'
WIDTH "W"	< 4'	20	20	20	20	20	18	16	14
	4'-6'	20	20	20	20	18	16	14	
	6'-8'	20	20	20	18	16	14		
	8'-10'	20	20	18	16	14			
10'-12'	18	18	16	14					

NOTES:
 1. DESIGN IS BASED ON A DIFFERENTIAL INTERNAL PRESSURE OF 5 POUNDS PER SQUARE FOOT, AND AN ALLOWABLE DEFLECTION OF 1/240.
 2. THE STEEL STUD GAUGE IS BASED ON STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA) PROPERTIES AND PROCEDURES FOR ENGINEERING INTERIOR NON-STRUCTURAL NON-COMPOSITE FRAMING.
 3. WHEN TYPICAL STUD SPANS EXCEED THOSE SHOWN, WHEN LOADING CONDITIONS ARE OTHER THAN STATED, OR FOR OPENING WIDTHS OR HEIGHTS EXCEEDING THOSE SHOWN, CONSULT STRUCTURAL ENGINEER.

A4 STUD FRAMING DETAILS
 SCALE: 1 1/2" = 1'-0"

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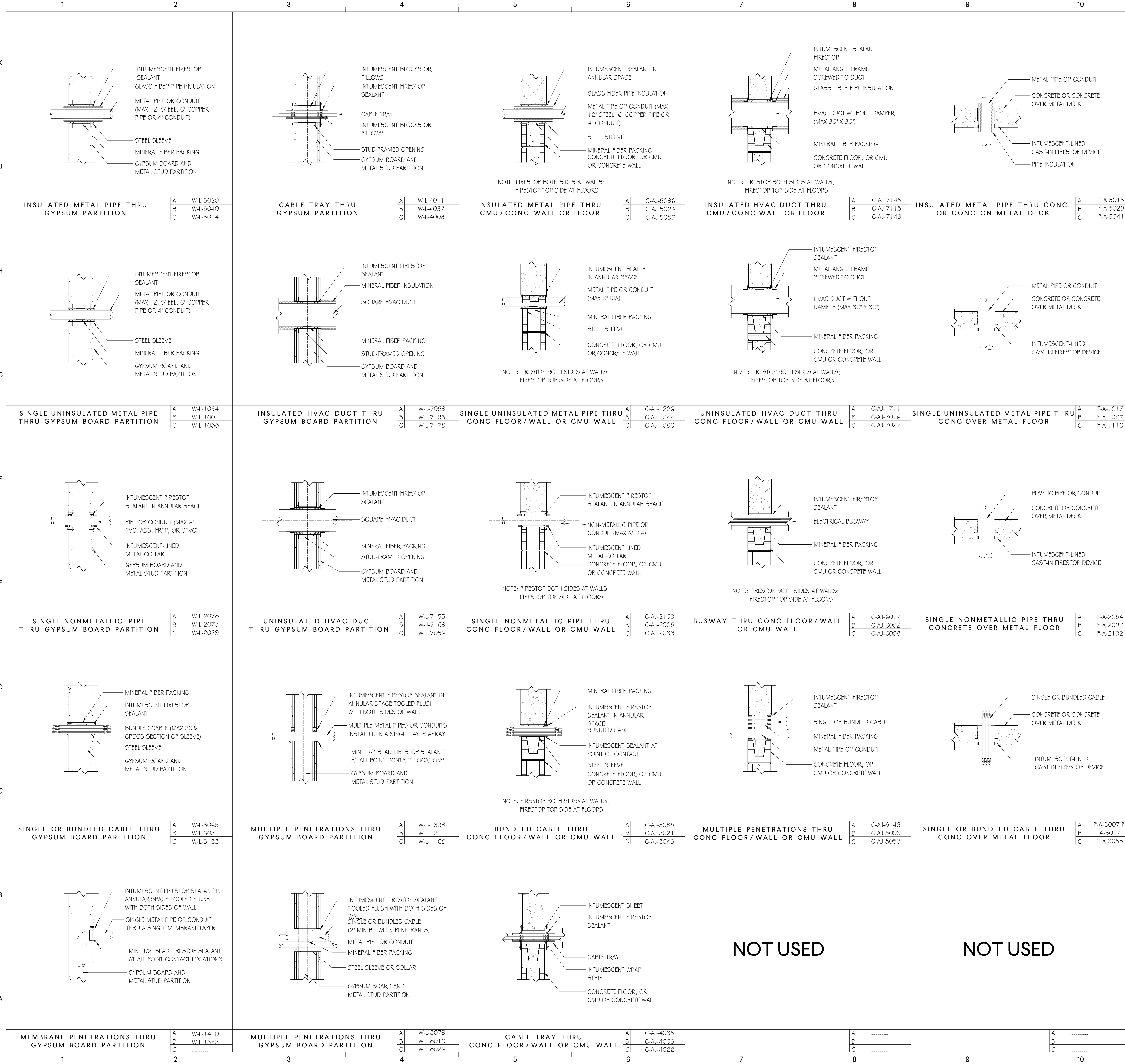
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PARTITION DETAILS

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GENERAL THRU - PENETRATION NOTES

1. GENERAL

- ALL THROUGH-PENETRATION FIRESTOP WORK SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 078413 - PENETRATION FIRESTOP SYSTEMS.
- THE DETAILS SHOWN HEREIN ILLUSTRATE FREQUENTLY ENCOUNTERED THROUGH-PENETRATION FIRESTOP CONDITIONS. THEY ARE GENERIC REPRESENTATIONS OF SYSTEMS AVAILABLE FROM SEVERAL MANUFACTURERS.
- SELECTION OF APPROPRIATE SYSTEMS SHALL BE THE RESPONSIBILITY OF THE FIRESTOP CONTRACTOR, AND MUST BE SUBMITTED FOR ARCHITECT'S APPROVAL. EACH SELECTION SHALL BE APPROPRIATE FOR THE PENETRATING ITEM AND SUBSTRATE, AND SHALL COMPLY WITH THE SPECIFIC REQUIREMENTS OF A UL LISTED SYSTEM DESIGN.
- WHERE NO APPLICABLE UL DESIGN IS AVAILABLE FOR A PARTICULAR FIRESTOP CONFIGURATION, SUBMIT AN ENGINEERING JUDGMENT (EJ), OR EQUIVALENT FIRE RESISTANCE RATED ASSEMBLY (EPPRA), PREPARED BY THE FIRESTOP MANUFACTURER.

2. APPLICABILITY

- PROVIDE THROUGH-PENETRATION FIRESTOP SYSTEMS FOR ALL PENETRATIONS (INCLUDING SINGLE-SIDED MEMBRANE PENETRATIONS) OF FIRE RESISTANCE RATED CONSTRUCTION, WHETHER OR NOT SPECIFICALLY DETAILED ON THE DRAWINGS (APPLICABLE TO BOTH EMPTY OPENINGS AND OPENINGS CONTAINING PENETRATING ITEMS).
- ALL PIPING AND DUCTWORK SUBJECT TO MOVEMENT SHALL BE FIRESTOPPED WITH FLEXIBLE FIRE RATED SEALANT.
- TO EXTENT THAT APPROPRIATE UL DESIGNS ARE AVAILABLE FOR SUBSTRATE REQUIRED, USE THE FOLLOWING APPROACH TO SELECTION OF SYSTEMS:
 - FOR SIMPLE PENETRATIONS: ONE-PART FIRESTOP SEALANT
 - FOR COMPLEX PENETRATIONS: FOAMED-IN-PLACE FIRESTOP SEALANT
 - FOR INSULATED METAL PIPE: INTUMESCENT WRAP STRIP AND ONE-PART FIRESTOP SEALANT.
 - FOR DUCTS OR VENTS:
 - FOR CABLE TRAYS OR RACEWAYS:

3. SLEEVING

- THE FOLLOWING PENETRATIONS MUST BE SLEEVED:
 - SINGLE ROUND PENETRATIONS IN RATED CMU WALLS
 - INSULATED PIPE PENETRATIONS IN RATED GYPSUM BOARD WALLS
 - BUNDLED CABLE PENETRATIONS IN RATED GYPSUM BOARD WALLS
 - ALL PENETRATIONS IN ELEVATED CONCRETE SLABS.
- ALL SLEEVES SHALL BE METAL. PLASTIC IS NOT PERMITTED. THE JUNCTURE OF STEEL SLEEVES AND WALL SHALL BE SEALED WITH FLEXIBLE FIRE RATED SEALANT.

4. QUALITY ASSURANCE

- COMPLY WITH "INSTALLER QUALIFICATIONS" AND "ON-SITE RESPONSIBLE PARTY" PROVISIONS OF SPECIFICATION SECTION 078413 - THROUGH-PENETRATION FIRESTOP SYSTEMS.
- OBTAIN THROUGH-PENETRATION FIRESTOP SYSTEMS THROUGH ONE SOURCE FROM A SINGLE MANUFACTURER.
- COMMENCE FIRESTOPPING WORK ONLY AFTER SUBMITTALS (INCLUDING MOCKUPS WHERE APPLICABLE) ARE APPROVED, AND PRE-INSTALLATION CONFERENCE IS SUCCESSFULLY CONCLUDED.

5. INSTALLATION - GENERAL

- COMPLY WITH UL SYSTEM REQUIREMENTS AND FIRESTOPPING MANUFACTURERS' PRINTED INSTALLATION INSTRUCTIONS.
- INSTALL FORMING/DAMMING/BACKING MATERIALS AND OTHER ACCESSORIES OF TYPES REQUIRED TO SUPPORT FILL MATERIALS DURING THEIR APPLICATION AND IN THE POSITION NEEDED TO PRODUCE CROSS-SECTIONAL SHAPES AND DEPTHS REQUIRED TO ACHIEVE FIRE RATINGS INDICATED.
- INSTALL FILL MATERIALS BY PROVEN TECHNIQUES TO PRODUCE THE FOLLOWING RESULTS:
 - FILL VOIDS AND CAVITIES FORMED BY OPENINGS, FORMING MATERIALS, ACCESSORIES, AND PENETRATING ITEMS AS REFERRED TO ACHIEVE FIRE-RESISTANCE RATINGS INDICATED.
 - APPLY MATERIALS SO THEY CONTACT AND ADHERE TO SUBSTRATES FORMED BY OPENINGS AND PENETRATING ITEMS.
- FOR FILL MATERIALS THAT WILL REMAIN EXPOSED AFTER COMPLETING WORK, FINISH TO PRODUCE SMOOTH UNIFORM SURFACES THAT ARE FLUSH WITH ADJOINING FINISHES.
- REMOVE COMBUSTIBLE FORMING MATERIALS, AND OTHER ACCESSORIES, THAT ARE NOT INDICATED AS PERMANENT COMPONENTS OF FIRESTOP SYSTEMS. REMOVE EXCESS SEALANT FROM ADJOINING SURFACES.
- IDENTIFY THROUGH PENETRATION FIRESTOP SYSTEMS WITH PERMANENTLY ATTACHED, PREPRINTED METAL OR PLASTIC LABELS, AS SPECIFIED.
- INSPECT FILL MATERIALS AFTER 48 HOURS FOR COMPLETE ADHESION AND SEAL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. CORRECT DEFICIENCIES AND RE-INSPECT.

PRODUCT / MANUFACTURER LEGEND

- THE ILLUSTRATIONS ON THIS DRAWING REPRESENT FREQUENTLY ENCOUNTERED FIRESTOPPING PENETRATION CONDITIONS THROUGH FIRE-RATED FLOOR AND WALL ASSEMBLIES.
- THE NUMBERS SHOWN BELOW ARE MANUFACTURERS' UL-TEST NUMBERS FOR EACH CONDITION.
- THE KEY TO MANUFACTURERS (A, B, OR C) IS AS INDICATED BELOW.

KEY TO MANUFACTURERS

A	FILTI
B	3M
C	STI

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PENETRATION FIRESTOPPING SYSTEMS

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B1 LIFE SAFETY PLAN
SCALE: 3/32"=1'-0"

PLAN LEGEND

- FIRE EXTINGUISHER
- FIRE HOSE CONNECTION
- FIRE EXTINGUISHER CABINET
- FIRE ALARM MANUAL PULL STATION
- FIRE ALARM HORN
- FIRE ALARM STROBE
- FIRE ALARM HORN/STROBE
- FIRE ALARM HORN/STROBE-CEILING MT
- FIRE ALARM CONTROL PANEL
- FIRE ALARM ANNUNCIATOR PANEL
- FIRE ALARM PANEL/SUBPANEL
- ILLUMINATED EXIT SIGN
- 1 - HR SMOKE BARRIER
- 1 - HR FIRE BARRIER
- 2 - HR FIRE BARRIER
- EXIT DISCHARGE W/ CLEAR EXIT WIDTH (EXIT AND EXIT ACCESS SYMBOLS SIMILAR)
- ADA ACCESSIBLE ROUTE
- DISTANCE OF TRAVEL

OVERALL BUILDING AREA

LEVEL	AREA (GROSS SQUARE FEET)
1	44,880 GSF
TOTAL	44,880 GSF

APPLICABLE CODES & REGULATIONS

2021	INTERNATIONAL BUILDING CODE (IBC)
2021	INTERNATIONAL FUEL GAS CODE (IFGC)
2021	INTERNATIONAL MECHANICAL CODE (IMC)
2021	INTERNATIONAL PLUMBING CODE (IPC)
2021	INTERNATIONAL FIRE CODE (IFC)
2020	NATIONAL ELECTRICAL CODE (NEC)
2015	INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
2013	ANSI/ASHRAE/IESNA STANDARD 90.1
2017	AMERICAN NATIONAL STANDARD ICC (ANSI) A117.1
2010	STANDARDS FOR ACCESSIBLE DESIGN

OCCUPANCY CLASSIFICATION IBC CH 3

OCCUPANCY	PRIMARY : BUSINESS
	SECONDARY : N/A

SPECIAL REQUIREMENTS IBC CH 4

[SPECIAL REQUIREMENT NOTES PER IBC CHAPTER 4 IF APPLICABLE]

CONSTRUCTION CLASSIFICATION IBC CH 5

CONSTRUCTION TYPE	TYPE IIB - FULLY SPRINKLERED	
HEIGHT	ALLOWABLE: 75 FEET	ACTUAL: 30 FEET
# OF STORIES	ALLOWABLE: 4 STORIES	ACTUAL: 1 STORY
HEIGHT MODIFICATIONS	N/A	
AREA PER FLOOR	ALLOWABLE: 92,000 SF	ACTUAL: LEVEL 1 - 44,880 SF GROSS

FIRE RESISTANCE - STRUCT. ELEMENTS IBC CH 6

RESISTANCE REQUIRED BY IBC TYPE TABLE GO 1
CONSTRUCTION TYPE : IIB

	RESISTANCE REQUIRED	RESISTANCE PROVIDED	
		RATING	ACHIEVED BY

BUILDING ELEMENT - STRUCTURAL
PRIMARY STRUCTURAL FRAME (PER CH 2 WITH RATING NOT LESS THAN CH 7)

COLUMNS	0 HR	N/A	N/A
STRUCTURAL MEMBERS HAVING DIRECT CONNECTION TO COLUMNS - BEAMS, GIRDERS, TRUSSES, AND SPANDRELS	0 HR	N/A	N/A

BEARING WALLS
EXTERIOR WALLS (RATING NOT LESS THAN CH 6 OR CH 7)

	0 HR	N/A	N/A
--	------	-----	-----

INTERIOR WALLS
NON BEARING WALLS AND PARTITIONS

EXTERIOR WALLS (BASED ON FIRE SEPARATION DISTANCE PER CH 6)	0 HR	N/A	N/A
---	------	-----	-----

NON BEARING WALLS AND PARTITIONS
INTERIOR WALLS (RATING NOT LESS THAN REQUIRED BY SECTIONS OTHER THAN SECTION 6)

	0 HR	N/A	N/A
--	------	-----	-----

FLOOR CONSTRUCTION AND SECONDARY MEMBERS (PER CH 2)
FLOOR CONSTRUCTION HAVING DIRECT CONNECTIONS TO THE COLUMNS

	0 HR	N/A	N/A
--	------	-----	-----

ROOF CONSTRUCTION AND SECONDARY MEMBERS (PER CH 2)
ROOF CONSTRUCTION HAVING DIRECT CONNECTIONS TO THE COLUMNS

	0 HR	N/A	N/A
--	------	-----	-----

FIRE RESISTANCE - WALLS & PARTITIONS IBC CH 7

WALLS AND PARTITIONS	IBC SECTION 700	OPENING PROTECTION	RESISTANCE PROVIDED	
			RATING	ACHIEVED BY

SHAFT ENCLOSURES				
* LESS THAN 4 STORIES	1 HR	TBD	TBD	UL #
* 4 OR MORE STORIES	N/A	N/A	N/A	UL #
FIRE WALLS	N/A	N/A	N/A	UL #
HORIZONTAL EXITS	N/A	N/A	N/A	UL #
EXIT PASSAGEWAYS	N/A	N/A	N/A	UL #
SMOKE BARRIERS	1 HR	TBD	TBD	UL #
STORM SHELTER WALLS	N/A	N/A	N/A	UL #
ACCESSORY / INCIDENTAL USE				
* FURNACE RM W/ 400,000 BTU/HR INPUT EQMT	1 HR	TBD	TBD	UL #
* BOILER RM W/ 15 PSI & 10 HP EQMT	1 HR	TBD	TBD	UL #
* WASTE & LINEN RMs > 100 SF	1 HR	TBD	TBD	UL #
* FIRE PUMP RM	1 HR	TBD	TBD	UL #

MEANS OF EGRESS

MAXIMUM ALLOWABLE	BUSINESS	
TRAVEL DISTANCE TO EXIT	250 FT [EQUIPPED W/ SPRINKLER SYSTEM]	
COMMON PATH OF TRAVEL	100 FT	
DEAD END LENGTH	50 FT	
EGRESS OCCUPANTS (DESIGN LOAD)	CALCULATION VALUES	OCCUPANCY COUNT
	BUSINESS: 39,938/150 [gr]	266
	ACC STORMMECH: 3,891/300 [gr]	13
	ASSEMBLY: 1051/115 [net]	70
	AGGREGATE OCCUPANT LOAD = 349 OCCUPANTS	
EGRESS WIDTH	REQUIRED: 0.2' PER OCCUPANT X 349 OCCUPANTS = 69.8'	PROVIDED: 194'

PLUMBING FIXTURE TABULATIONS

OCCUPANCY	OCCUPANT LOAD (ACTUAL)	WC			LAV			BATH/ DRINKING/ SVC SHOWER FOUNTAINS/SINKS		
		M	F	USX	M	F	USX			
A ASSEMBLY	70	.28	.54	-	.175	.175	-	-	.14	1
B BUSINESS	266	3.66	3.66	-	2.66	2.66	-	-	2.66	1
S (STORAGE)	9	.05	.05	-	.007	.007	-	-	.009	1
MECH/ELEC	5	.006	.006	-	.004	.004	-	-	.005	1
	3M 3F									
REQUIRED		4	4.26	0	2.85	2.85	0	0	2.82	1
PROVIDED		5	9	3	3	4	3	1	4	1

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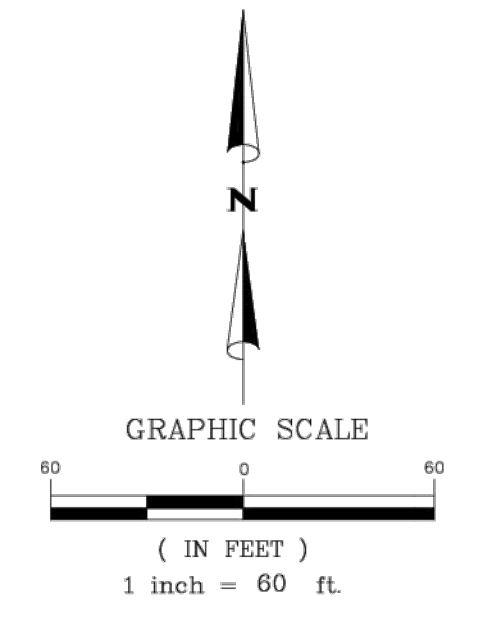
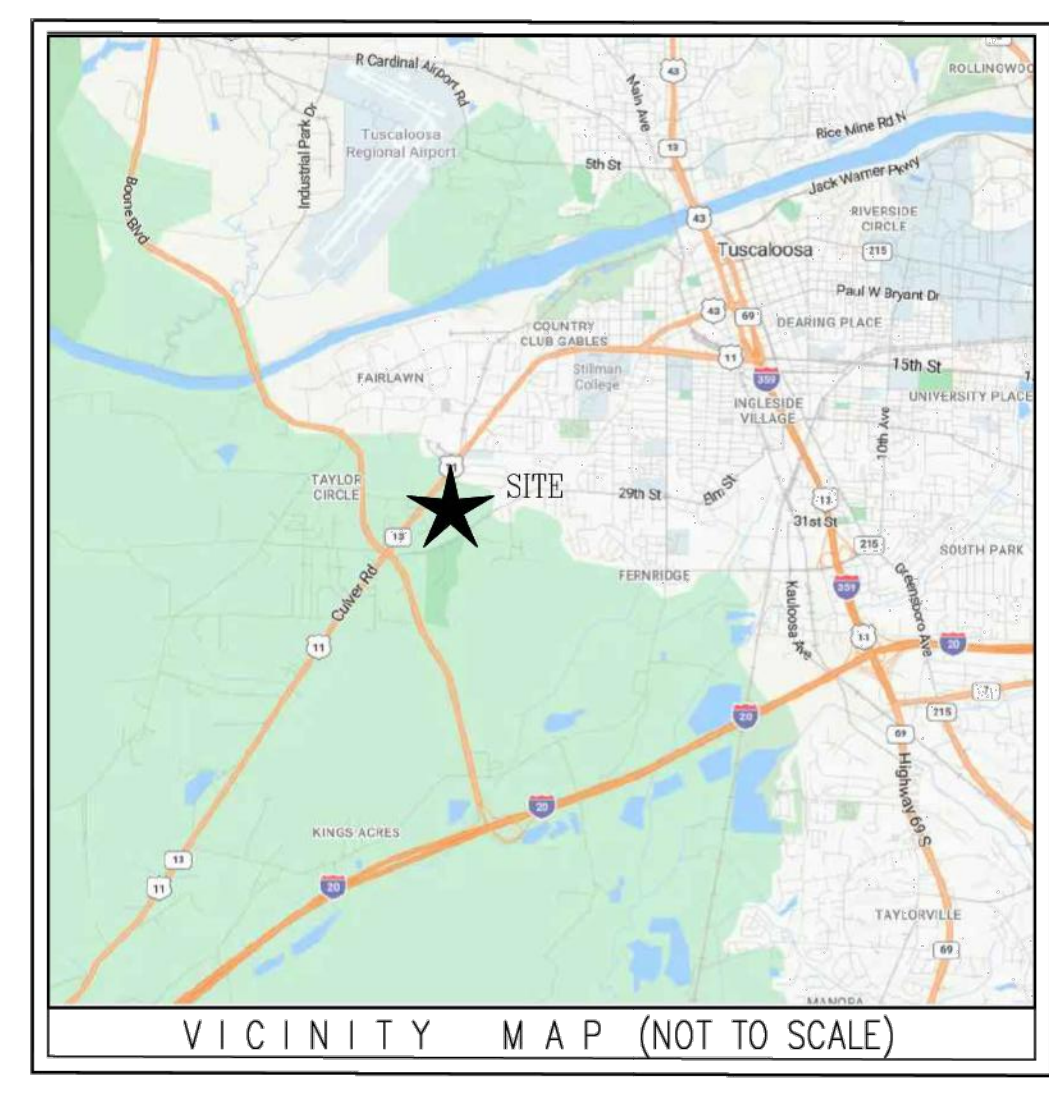
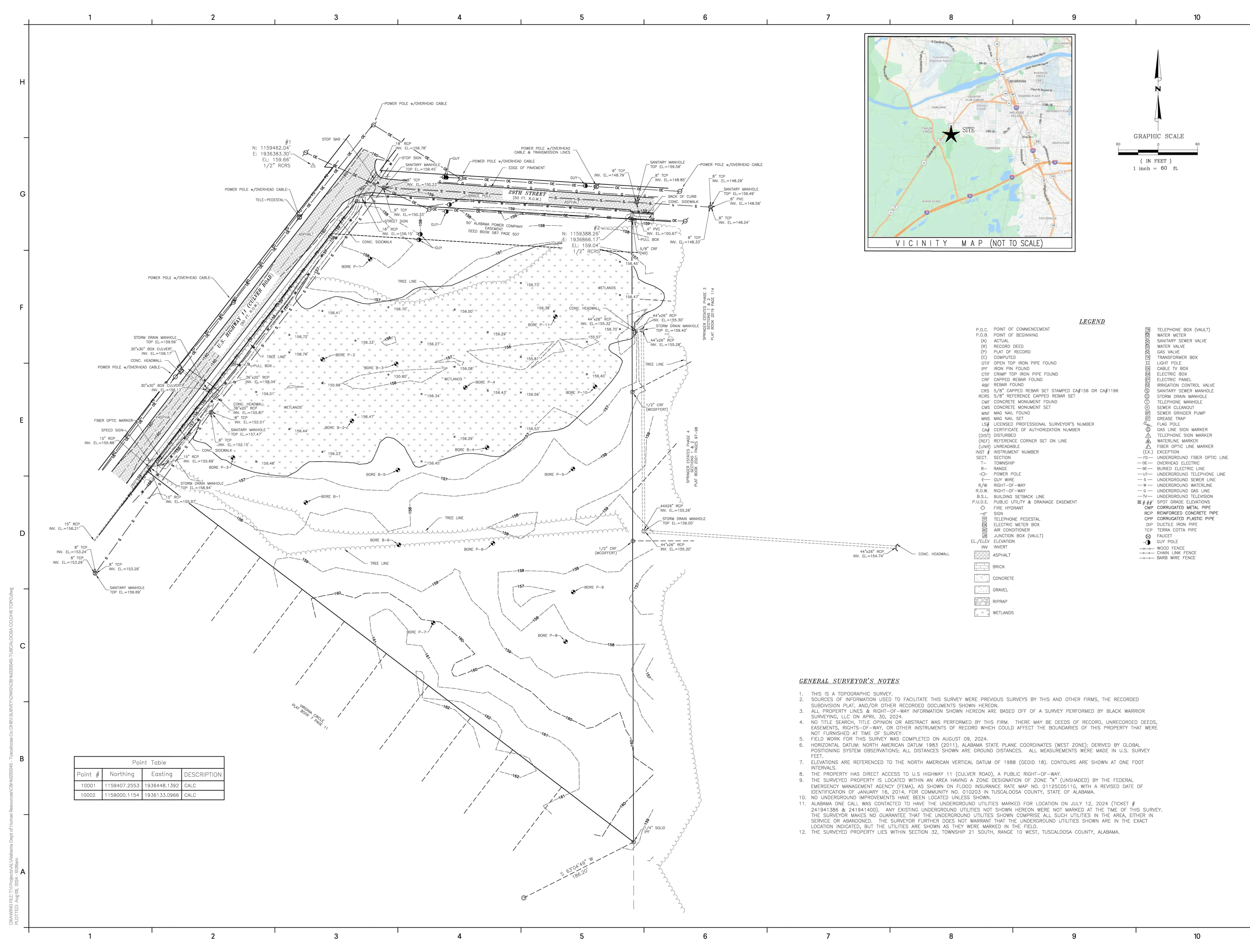
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- LEGEND**
- P.O.C. POINT OF COMMENCEMENT
 - P.O.B. POINT OF BEGINNING
 - (A) ACTUAL
 - (R) RECORD DEED
 - (P) PLAT OF RECORD
 - (C) COMPUTED
 - OTIF OPEN TOP IRON PIPE FOUND
 - IRF IRON PIPE FOUND
 - CTIF CRIMP TOP IRON PIPE FOUND
 - CRF CAPPED REBAR FOUND
 - RRF REBAR FOUND
 - CRS 5/8" CAPPED REBAR SET STAMPED CA#156 OR CA#196
 - CRS 5/8" REFERENCE CAPPED REBAR SET
 - CMF CONCRETE MONUMENT FOUND
 - CMS CONCRETE MONUMENT SET
 - MNF MAG NAIL FOUND
 - MNS MAG NAIL SET
 - LS# LICENSED PROFESSIONAL SURVEYOR'S NUMBER
 - CA# CERTIFICATE OF AUTHORIZATION NUMBER
 - (DIST) DISTURBED
 - (REF) REFERENCE CORNER SET ON LINE
 - (UND) UNDEVELOPED
 - INST # INSTRUMENT NUMBER
 - SECT. SECTION
 - T- TOWNSHIP
 - R- RANGE
 - CO POWER POLE
 - E GUY WIRE
 - R/W RIGHT-OF-WAY
 - R.O.W. RIGHT-OF-WAY
 - B.S.L. BUILDING SETBACK LINE
 - P.U.L.E. PUBLIC UTILITY & DRAINAGE EASEMENT
 - EL/ELEV ELEVATION
 - INV. INVERT
 - ASPHALT
 - BRICK
 - CONCRETE
 - GRAVEL
 - RIPRAP
 - WETLANDS
 - TELEPHONE BOX (VAULT)
 - WATER METER
 - SANITARY SEWER VALVE
 - WATER VALVE
 - GAS VALVE
 - TRANSFORMER BOX
 - CABLE TV BOX
 - ELECTRIC BOX
 - ELECTRIC PANEL
 - IRRIGATION CONTROL VALVE
 - SANITARY SEWER MANHOLE
 - TELEPHONE MANHOLE
 - STORM DRAIN MANHOLE
 - SEWER CLEANOUT
 - SEWER GRINDER PUMP
 - GREASE TRAP
 - FLAG POLE
 - GAS LINE SIGN MARKER
 - TELEPHONE SIGN MARKER
 - WATERLINE MARKER
 - FIBER OPTIC LINE MARKER
 - (EX) EXCEPTION
 - UNDERGROUND FIBER OPTIC LINE
 - OVERHEAD ELECTRIC
 - BURIED ELECTRIC LINE
 - UNDERGROUND TELEPHONE LINE
 - UNDERGROUND TELEPHONE LINE
 - UNDERGROUND SEWER LINE
 - UNDERGROUND WATERLINE
 - UNDERGROUND GAS LINE
 - UNDERGROUND TELEVISION
 - SPOT GRADE ELEVATIONS
 - CORRUGATED METAL PIPE
 - REINFORCED CONCRETE PIPE
 - CORRUGATED PLASTIC PIPE
 - DIP DUCTILE IRON PIPE
 - TERRA COTTA PIPE
 - FALICET
 - GUY POLE
 - WOOD FENCE
 - CHAIN LINK FENCE
 - BARB WIRE FENCE



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SURVEY DRAWING	08/09/2024

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GMC Project #CBHM220045

TOPOGRAPHIC SURVEY
1 of 1
Sheet 1 of 1

EXISTING CONDITIONS

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TUSCALOOSA, AL

GMC Project # CBHM220045

C-002
Sheet 1 of 1

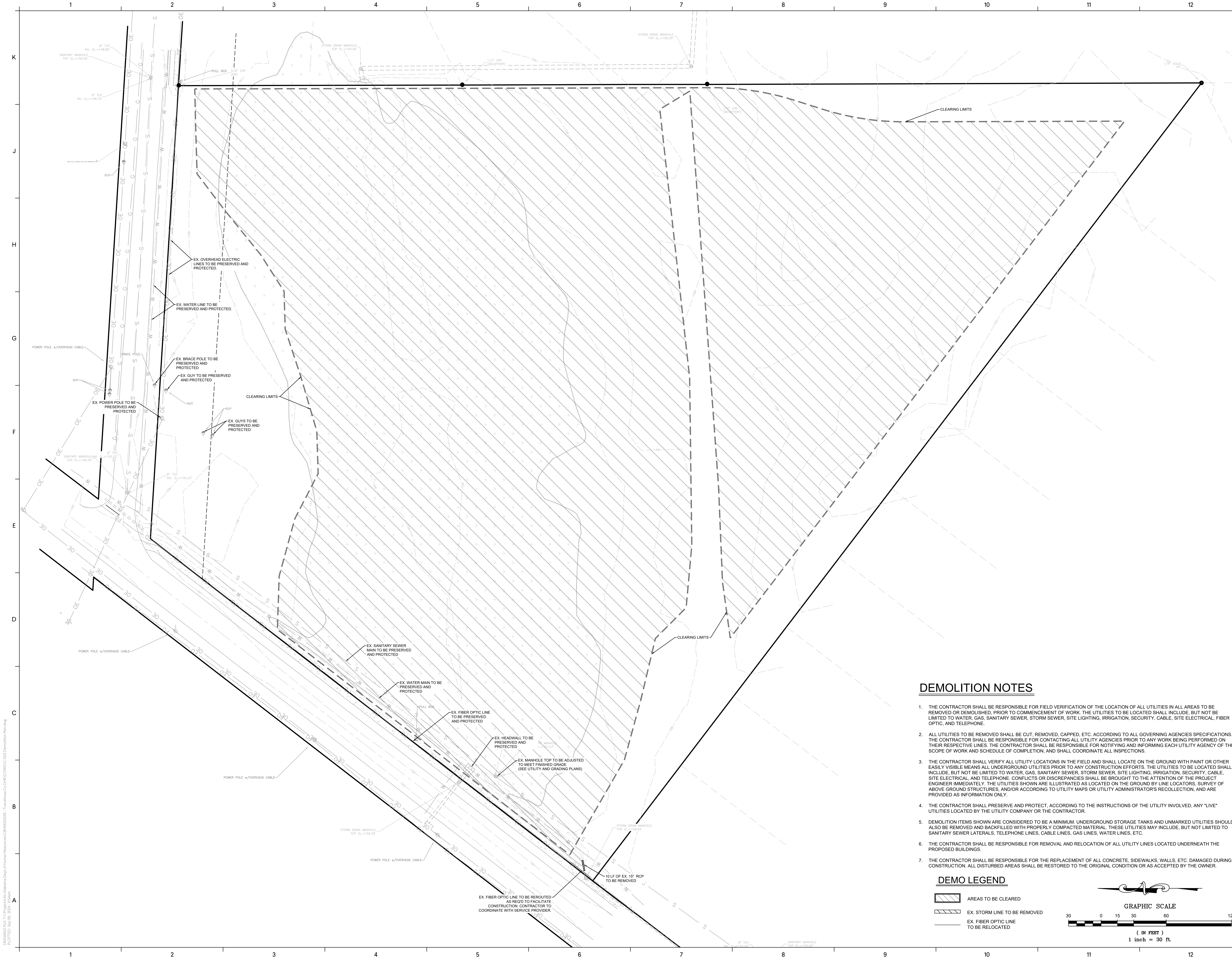
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ISSUE DATE	DATE
BID SET	09/09/2024
FIELD WORK	08/09/2024
SURVEY DRAWING	08/09/2024


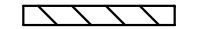

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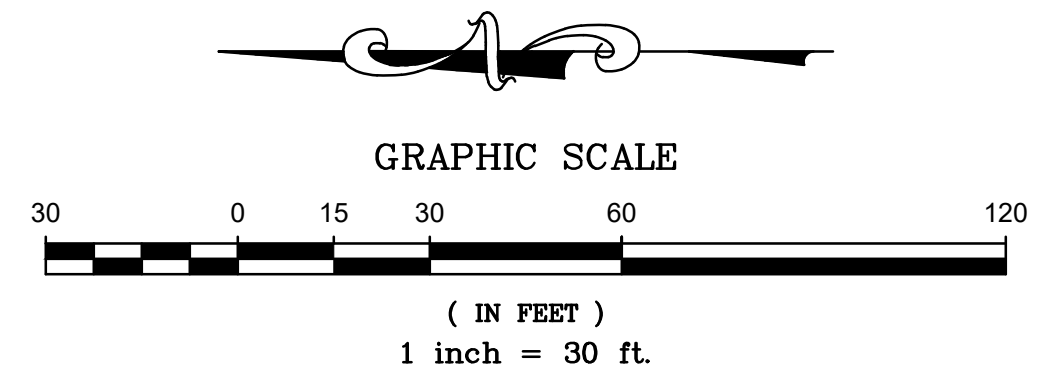


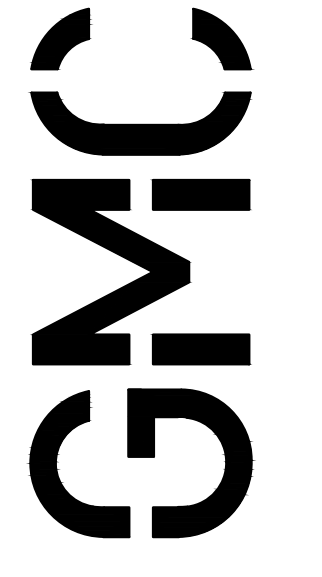
DEMOLITION NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF THE LOCATION OF ALL UTILITIES IN ALL AREAS TO BE REMOVED OR DEMOLISHED, PRIOR TO COMMENCEMENT OF WORK. THE UTILITIES TO BE LOCATED SHALL INCLUDE, BUT NOT BE LIMITED TO WATER, GAS, SANITARY SEWER, STORM SEWER, SITE LIGHTING, IRRIGATION, SECURITY, CABLE, SITE ELECTRICAL, FIBER OPTIC, AND TELEPHONE.
2. ALL UTILITIES TO BE REMOVED SHALL BE CUT, REMOVED, CAPPED, ETC. ACCORDING TO ALL GOVERNING AGENCIES SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTRACTING ALL UTILITY AGENCIES PRIOR TO ANY WORK BEING PERFORMED ON THEIR RESPECTIVE LINES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING AND INFORMING EACH UTILITY AGENCY OF THE SCOPE OF WORK AND SCHEDULE OF COMPLETION, AND SHALL COORDINATE ALL INSPECTIONS.
3. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS IN THE FIELD AND SHALL LOCATE ON THE GROUND WITH PAINT OR OTHER EASILY VISIBLE MEANS ALL UNDERGROUND UTILITIES PRIOR TO ANY CONSTRUCTION EFFORTS. THE UTILITIES TO BE LOCATED SHALL INCLUDE, BUT NOT BE LIMITED TO WATER, GAS, SANITARY SEWER, STORM SEWER, SITE LIGHTING, IRRIGATION, SECURITY, CABLE, SITE ELECTRICAL, AND TELEPHONE. CONFLICTS OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER IMMEDIATELY. THE UTILITIES SHOWN ARE ILLUSTRATED AS LOCATED ON THE GROUND BY LINE LOCATORS, SURVEY OF ABOVE GROUND STRUCTURES, AND/OR ACCORDING TO UTILITY MAPS OR UTILITY ADMINISTRATOR'S RECOLLECTION, AND ARE PROVIDED AS INFORMATION ONLY.
4. THE CONTRACTOR SHALL PRESERVE AND PROTECT, ACCORDING TO THE INSTRUCTIONS OF THE UTILITY INVOLVED, ANY "LIVE" UTILITIES LOCATED BY THE UTILITY COMPANY OR THE CONTRACTOR.
5. DEMOLITION ITEMS SHOWN ARE CONSIDERED TO BE A MINIMUM. UNDERGROUND STORAGE TANKS AND UNMARKED UTILITIES SHOULD ALSO BE REMOVED AND BACKFILLED WITH PROPERLY COMPACTED MATERIAL. THESE UTILITIES MAY INCLUDE, BUT NOT LIMITED TO SANITARY SEWER LATERALS, TELEPHONE LINES, CABLE LINES, GAS LINES, WATER LINES, ETC.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND RELOCATION OF ALL UTILITY LINES LOCATED UNDERNEATH THE PROPOSED BUILDINGS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ALL CONCRETE, SIDEWALKS, WALLS, ETC. DAMAGED DURING CONSTRUCTION. ALL DISTURBED AREAS SHALL BE RESTORED TO THE ORIGINAL CONDITION OR AS ACCEPTED BY THE OWNER.

DEMO LEGEND

-  AREAS TO BE CLEARED
-  EX. STORM LINE TO BE REMOVED
-  EX. FIBER OPTIC LINE TO BE RELOCATED





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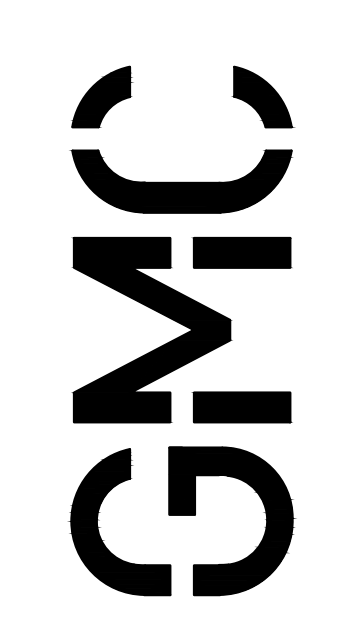
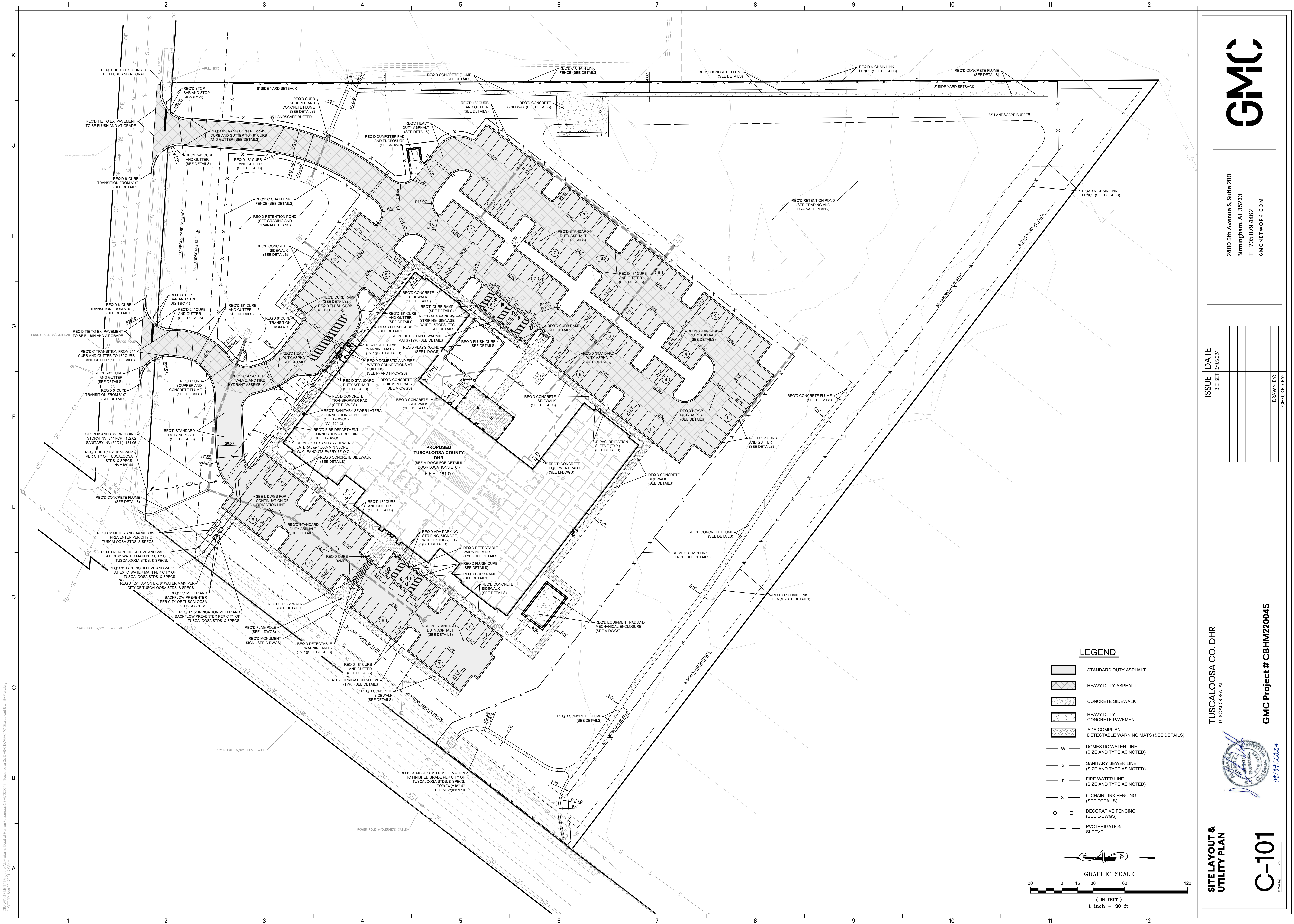
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DEMOLITION PLAN

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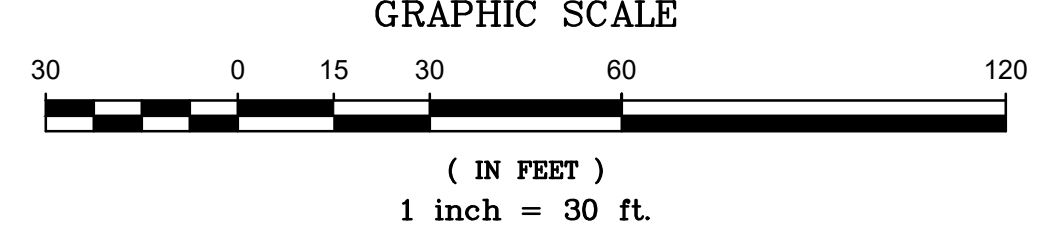


SITELAYOUT &
 UTILITY PLAN

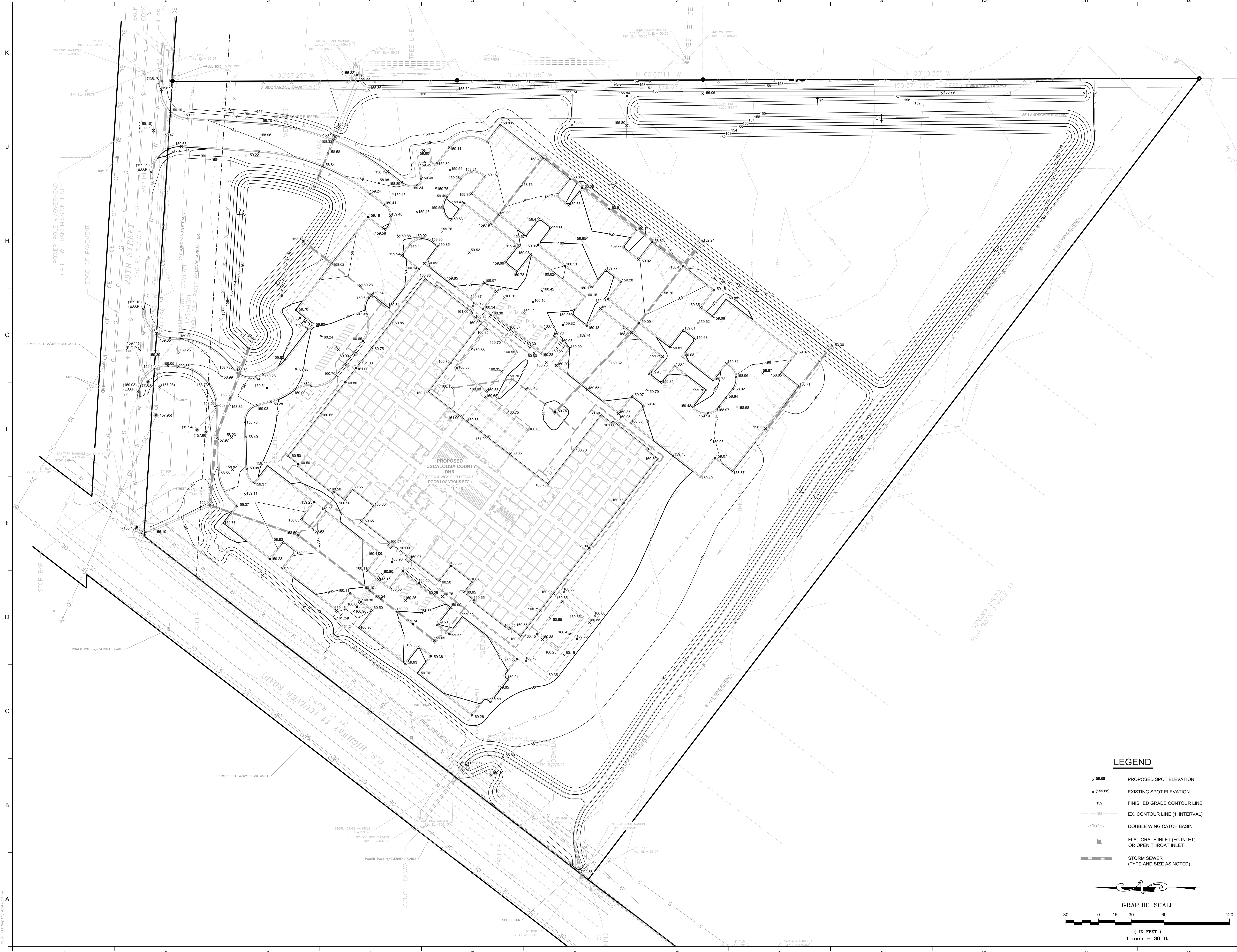
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LEGEND

- STANDARD DUTY ASPHALT
- HEAVY DUTY ASPHALT
- CONCRETE SIDEWALK
- HEAVY DUTY CONCRETE PAVEMENT
- ADA COMPLIANT DETECTABLE WARNING MATS (SEE DETAILS)
- DOMESTIC WATER LINE (SIZE AND TYPE AS NOTED)
- SANITARY SEWER LINE (SIZE AND TYPE AS NOTED)
- FIRE WATER LINE (SIZE AND TYPE AS NOTED)
- 6' CHAIN LINK FENCING (SEE DETAILS)
- DECORATIVE FENCING (SEE L-DWGS)
- PVC IRRIGATION SLEEVE



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LEGEND

- ×159.68 PROPOSED SPOT ELEVATION
- x(159.68) EXISTING SPOT ELEVATION
- 159— FINISHED GRADE CONTOUR LINE
- 158— EX. CONTOUR LINE (1' INTERVAL)
- 159— DOUBLE WING CATCH BASIN
- FLAT GRATE INLET (FG INLET)
OR OPEN THROAT INLET
- — — — — STORM SEWER
(TYPE AND SIZE AS NOTED)

GRAPHIC SCALE

(IN FEET)
 1 inch = 30 ft.

GRADING PLAN

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C-201

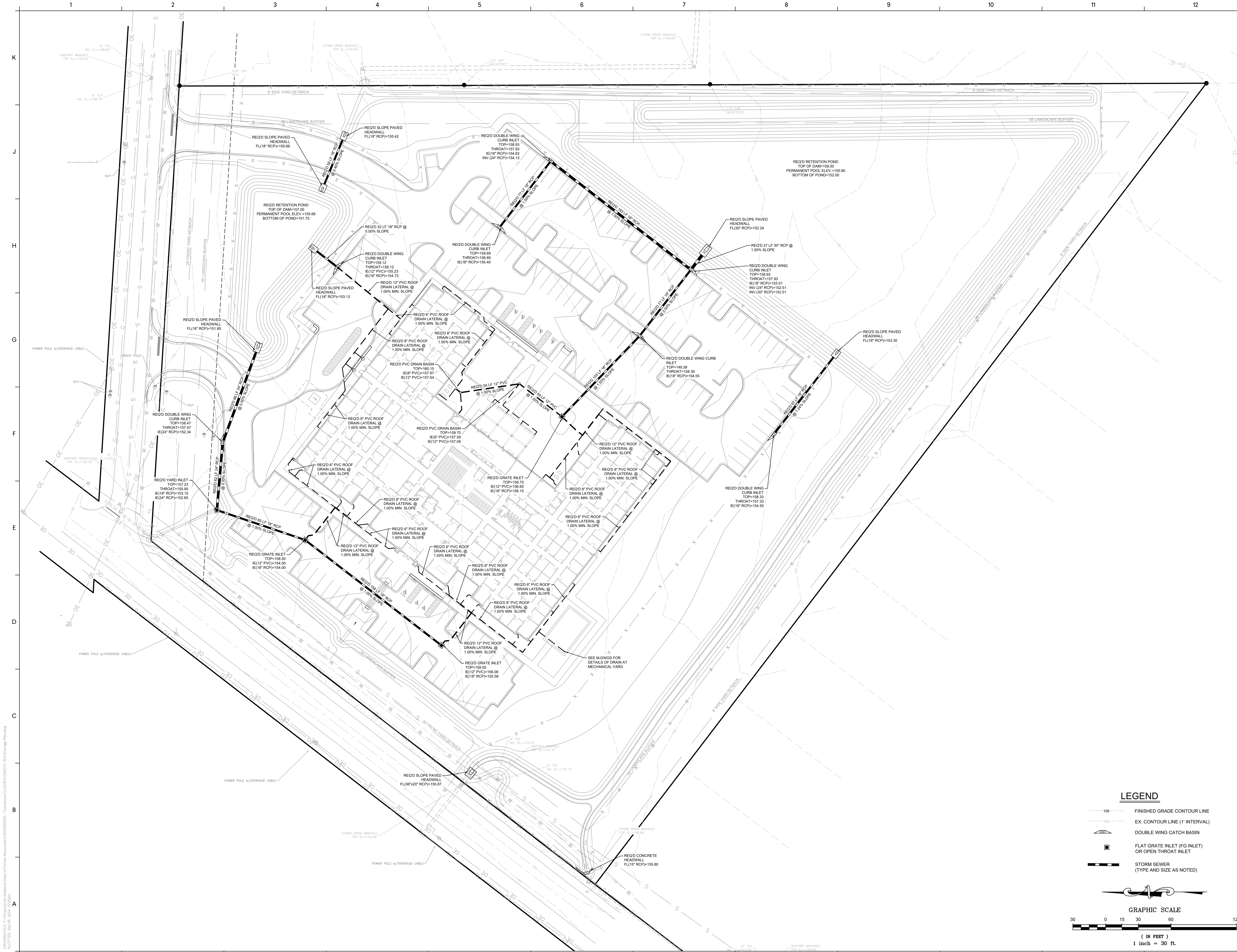
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DRAINAGE PLAN

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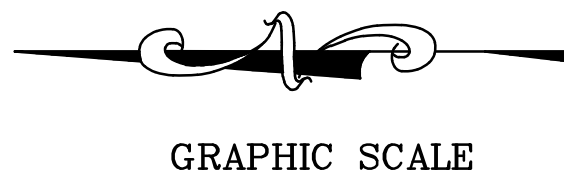
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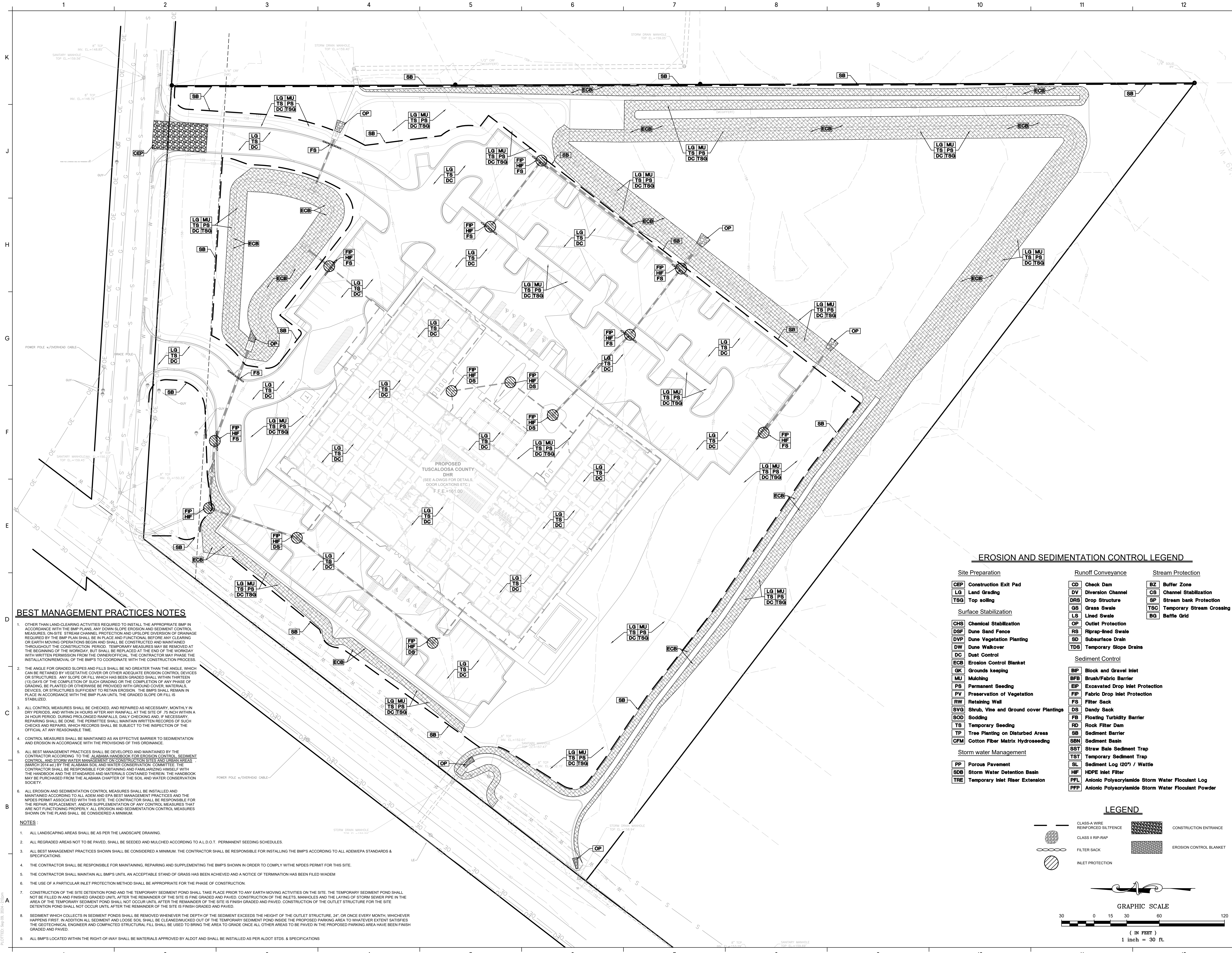
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LEGEND

- 159 FINISHED GRADE CONTOUR LINE
- EX. CONTOUR LINE (1' INTERVAL)
- DOUBLE WING CATCH BASIN
- FLAT GRATE INLET (FG INLET) OR OPEN THROAT INLET
- STORM SEWER (TYPE AND SIZE AS NOTED)



SEE M-DWGS FOR DETAILS OF DRAIN AT MECHANICAL YARD



BEST MANAGEMENT PRACTICES NOTES

- OTHER THAN LAND-CLEARING ACTIVITIES REQUIRED TO INSTALL THE APPROPRIATE BMP IN ACCORDANCE WITH THE BMP PLANS. ANY DOWN SLOPE EROSION AND SEDIMENT CONTROL MEASURES, ON-SITE STREAM CHANNEL PROTECTION AND SLOPE DIVERSION OF DRAINAGE REQUIRED BY THE BMP PLAN SHALL BE IN PLACE AND FUNCTIONAL BEFORE ANY CLEARING OR EARTH MOVING OPERATIONS BEGIN AND SHALL BE CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. TEMPORARY MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY, BUT SHALL BE REPLACED AT THE END OF THE WORKDAY WITH WRITTEN PERMISSION FROM THE OWNER/OFFICIAL. THE CONTRACTOR MAY PHASE THE INSTALLATION/REMOVAL OF THE BMP'S TO COORDINATE WITH THE CONSTRUCTION PROCESS.
 - THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE, WHICH CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION CONTROL DEVICES OR STRUCTURES. ANY SLOPE OR FILL WHICH HAS BEEN GRADED SHALL WITHIN THIRTEEN (13) DAYS OF THE COMPLETION OF SUCH GRADING OR THE COMPLETION OF ANY PHASE OF GRADING, BE PLANTED OR OTHERWISE BE PROVIDED WITH GRADING COVER MATERIALS, DEVICES, OR STRUCTURES SUFFICIENT TO RETAIN EROSION. THE BMP'S SHALL REMAIN IN PLACE IN ACCORDANCE WITH THE BMP PLAN UNTIL THE GRADED SLOPE OR FILL IS STABILIZED.
 - ALL CONTROL MEASURES SHALL BE CHECKED, AND REPAIRED AS NECESSARY MONTHLY IN DRY PERIODS, AND WITHIN 24 HOURS AFTER ANY RAINFALL AT THE SITE OF 75 INCH WITHIN A 24 HOUR PERIOD. DURING PROLONGED RAINFALLS, DAILY CHECKING AND, IF NECESSARY, REPAIRING SHALL BE DONE. THE PERMITTEE SHALL MAINTAIN WRITTEN RECORDS OF SUCH CHECKS AND REPAIRS, WHICH RECORDS SHALL BE SUBJECT TO THE INSPECTION OF THE OFFICIAL AT ANY REASONABLE TIME.
 - CONTROL MEASURES SHALL BE MAINTAINED AS AN EFFECTIVE BARRIER TO SEDIMENTATION AND EROSION IN ACCORDANCE WITH THE PROVISIONS OF THIS ORDINANCE.
 - ALL BEST MANAGEMENT PRACTICES SHALL BE DEVELOPED AND MAINTAINED BY THE CONTRACTOR ACCORDING TO THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORM WATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS (MARCH 2014 ed.) BY THE ALABAMA SOIL AND WATER CONSERVATION COMMITTEE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND FAMILIARIZING HIMSELF WITH THE HANDBOOK AND THE STANDARDS AND MATERIALS CONTAINED THEREIN. THE HANDBOOK MAY BE PURCHASED FROM THE ALABAMA CHAPTER OF THE SOIL AND WATER CONSERVATION SOCIETY.
 - ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED ACCORDING TO ALL ADEM AND EPA BEST MANAGEMENT PRACTICES AND THE NPDES PERMIT ASSOCIATED WITH THIS SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR, REPLACEMENT, AND/OR SUPPLEMENTATION OF ANY CONTROL MEASURES THAT ARE NOT FUNCTIONING PROPERLY. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHOWN ON THE PLANS SHALL BE CONSIDERED A MINIMUM.
- NOTES:**
- ALL LANDSCAPING AREAS SHALL BE AS PER THE LANDSCAPE DRAWING.
 - ALL REGRADED AREAS NOT TO BE PAVED, SHALL BE SEEDED AND MULCHED ACCORDING TO A.L.D.O.T. PERMANENT SEEDING SCHEDULES.
 - ALL BEST MANAGEMENT PRACTICES SHOWN SHALL BE CONSIDERED A MINIMUM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING THE BMP'S ACCORDING TO ALL ADEM/EPA STANDARDS & SPECIFICATIONS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING, REPAIRING AND SUPPLEMENTING THE BMP'S SHOWN IN ORDER TO COMPLY WITH THE NPDES PERMIT FOR THIS SITE.
 - THE CONTRACTOR SHALL MAINTAIN ALL BMP'S UNTIL AN ACCEPTABLE STAND OF GRASS HAS BEEN ACHIEVED AND A NOTICE OF TERMINATION HAS BEEN FILED WITH ADEM.
 - THE USE OF A PARTICULAR INLET PROTECTION METHOD SHALL BE APPROPRIATE FOR THE PHASE OF CONSTRUCTION.
 - CONSTRUCTION OF THE SITE DETENTION POND AND THE TEMPORARY SEDIMENT POND SHALL TAKE PLACE PRIOR TO ANY EARTH MOVING ACTIVITIES ON THE SITE. THE TEMPORARY SEDIMENT POND SHALL NOT BE FILLED IN AND FINISHED GRADED UNTIL AFTER THE REMAINDER OF THE SITE IS FINE GRADED AND PAVED. CONSTRUCTION OF THE INLETS, MANHOLES AND THE LAYING OF STORM SEWER PIPE IN THE AREA OF THE TEMPORARY SEDIMENT POND SHALL NOT OCCUR UNTIL AFTER THE REMAINDER OF THE SITE IS FINISH GRADED AND PAVED. CONSTRUCTION OF THE OUTLET STRUCTURE FOR THE SITE DETENTION POND SHALL NOT OCCUR UNTIL AFTER THE REMAINDER OF THE SITE IS FINISH GRADED AND PAVED.
 - SEDIMENT WHICH COLLECTS IN SEDIMENT PONDS SHALL BE REMOVED WHENEVER THE DEPTH OF THE SEDIMENT EXCEEDS THE HEIGHT OF THE OUTLET STRUCTURE, 24" OR ONCE EVERY MONTH, WHICHEVER HAPPENS FIRST. IN ADDITION ALL SEDIMENT AND LOOSE SOIL SHALL BE CLEANED/MUCKED OUT OF THE TEMPORARY SEDIMENT POND INSIDE THE PROPOSED PARKING AREA TO WHATEVER EXTENT SATISFIES THE GEOTECHNICAL ENGINEER AND COMPACTED STRUCTURAL FILL SHALL BE USED TO BRING THE AREA TO GRADE ONCE ALL OTHER AREAS TO BE PAVED IN THE PROPOSED PARKING AREA HAVE BEEN FINISH GRADED AND PAVED.
 - ALL BMP'S LOCATED WITHIN THE RIGHT-OF-WAY SHALL BE MATERIALS APPROVED BY ALDOT AND SHALL BE INSTALLED AS PER ALDOT STDS. & SPECIFICATIONS

EROSION AND SEDIMENTATION CONTROL LEGEND

Site Preparation	Runoff Conveyance	Stream Protection
CEP Construction Exit Pad	CD Check Dam	BZ Buffer Zone
LG Land Grading	DV Diversion Channel	CS Channel Stabilization
TSG Top soiling	DRS Drop Structure	SP Stream bank Protection
	GS Grass Swale	TSC Temporary Stream Crossing
	LS Lined Swale	BG Baffle Grid
Surface Stabilization	OP Outlet Protection	
CHS Chemical Stabilization	RS Riprap-lined Swale	
DSF Dune Sand Fence	SD Subsurface Drain	
DVP Dune Vegetation Planting	TDS Temporary Slope Drains	
DW Dune Walkover		
DC Dust Control		
ECB Erosion Control Blanket		
GK Grounds keeping		
MU Mulching		
PS Permanent Seeding		
PV Preservation of Vegetation		
RW Retaining Wall		
SVG Shrub, Vine and Ground cover Plantings		
SOD Sodding		
TS Temporary Seeding		
TP Tree Planting on Disturbed Areas		
CFM Cotton Fiber Matrix Hydroseeding		
Storm water Management		
PP Porous Pavement		
SDB Storm Water Detention Basin		
TRE Temporary Inlet Riser Extension		

LEGEND

	CLASS A WIRE REINFORCED SILFENCE		CONSTRUCTION ENTRANCE
	CLASS II RIP-RAP		EROSION CONTROL BLANKET
	FILTER SACK		
	INLET PROTECTION		

GRAPHIC SCALE

(IN FEET)

1 inch = 30 ft.

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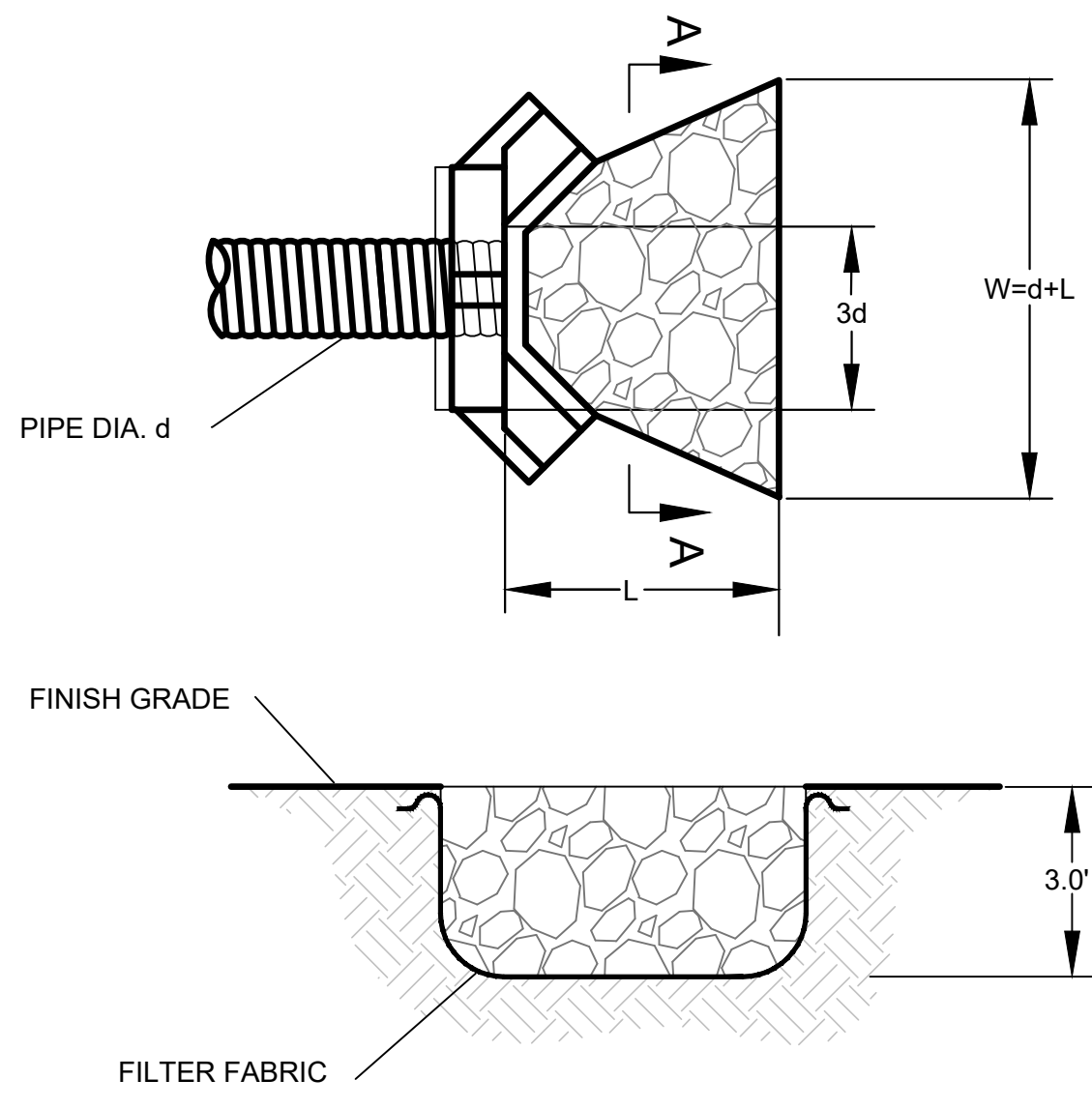
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EROSION AND SEDIMENTATION CONTROL PLAN

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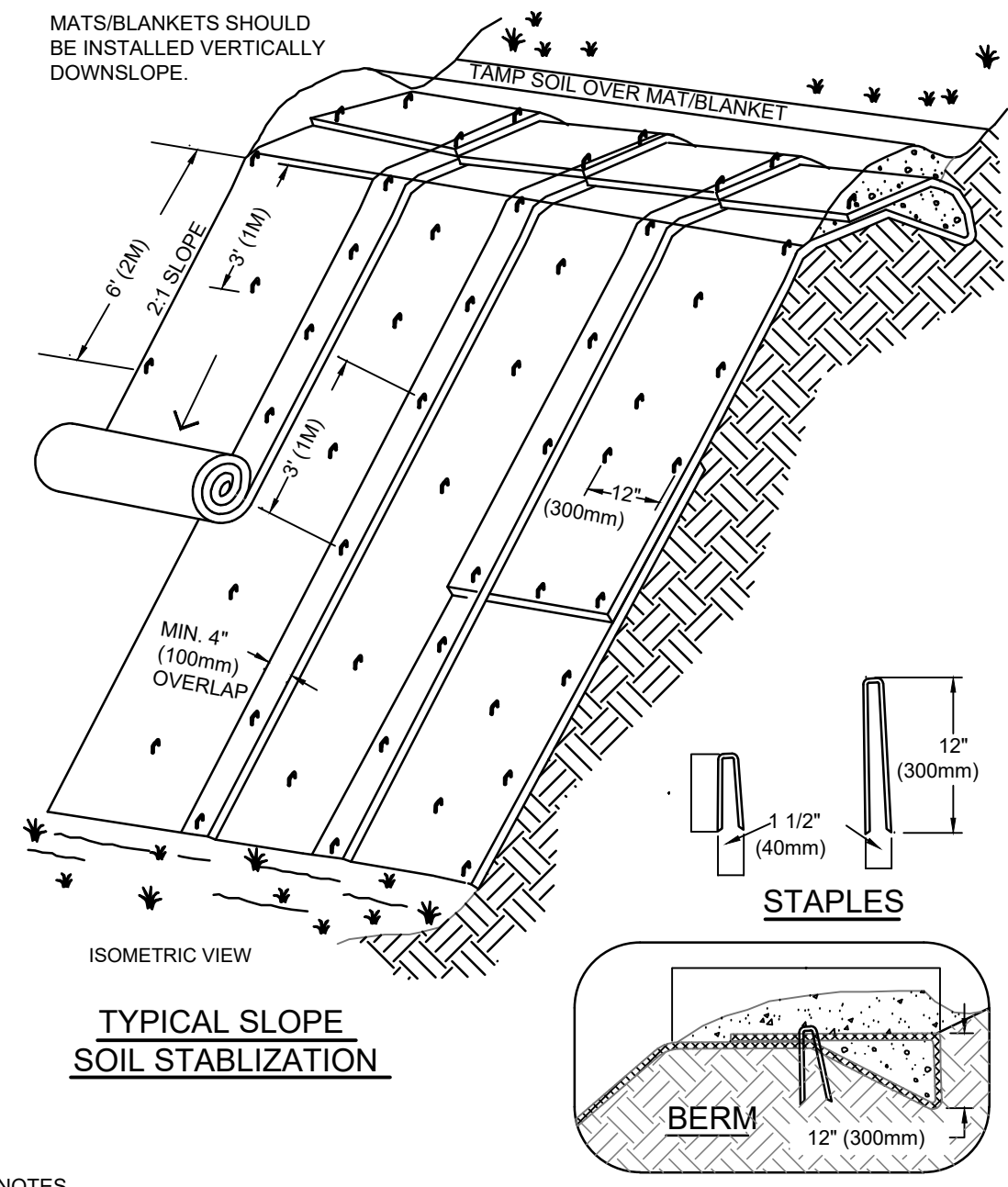


RIP-RAP LENGTH TABLE

PIPE DIA.	L, FT
15"	5'
18"	8'
24"	10'
30"	12'
36"	14'
42"	16'
48"	18'
60"	20'

USE CLASS II STONE RIP-RAP AT ALL LOCATIONS SHOWN IN PLANS.

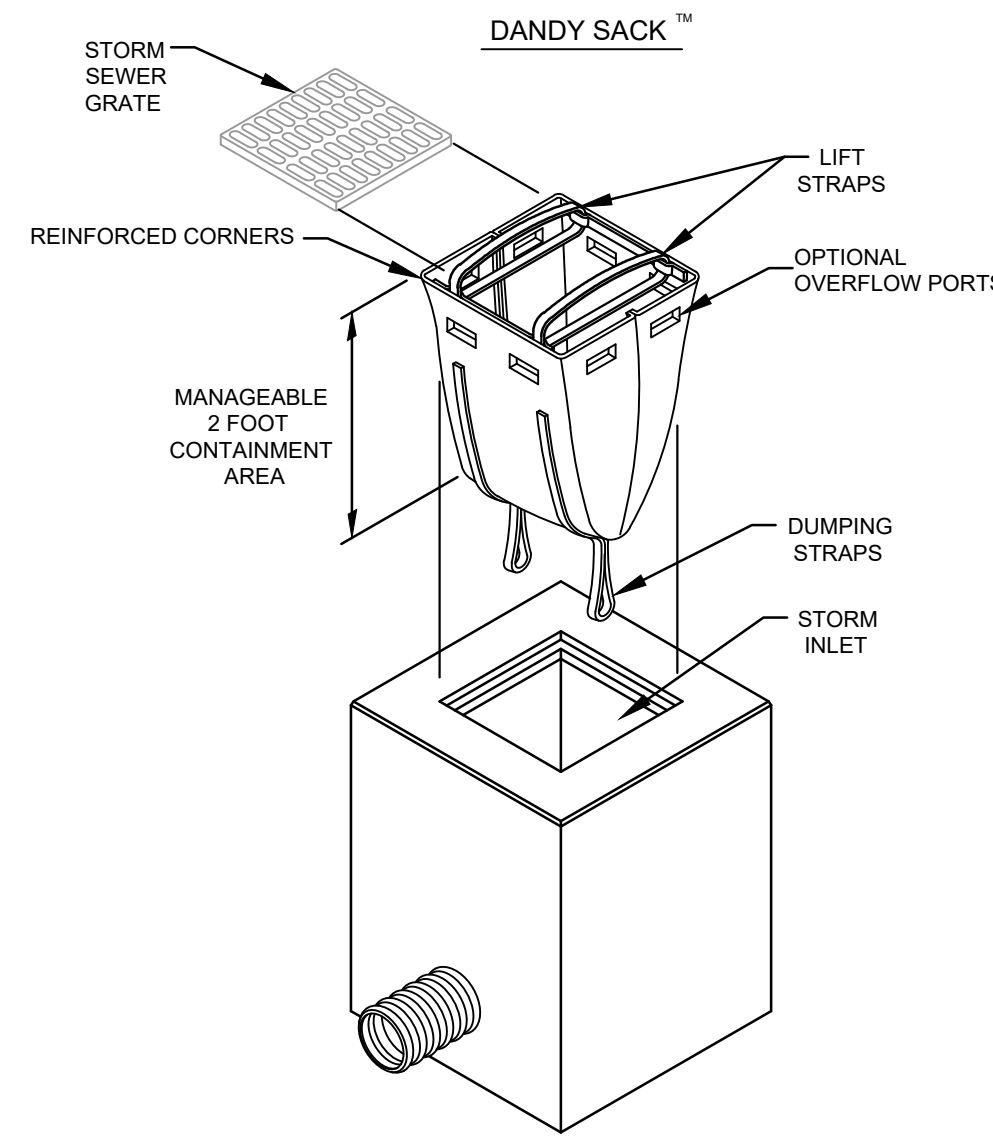
RIP RAP POND OUTFALL DETAIL
NOT TO SCALE



TYPICAL SLOPE SOIL STABILIZATION

NOTES:
1. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. MATS/BLANKETS SHALL HAVE GOOD SOIL CONTACT.
2. APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.
3. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
4. BLANKETS SHALL BE NORTH AMERICAN GREEN PRODUCT NO. SC150 OR APPROVED EQUAL.

EROSION BLANKETS & TURF REINFORCEMENT MATS SLOPE INSTALLATION
N.T.S.



DANDY SACK™ SPECIFICATIONS

NOTE: THE DANDY SACK™ WILL BE MANUFACTURED IN THE U.S.A. FROM A WOVEN MONOFILAMENT FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS:

REGULAR FLOW DANDY SACK™ (BLACK)

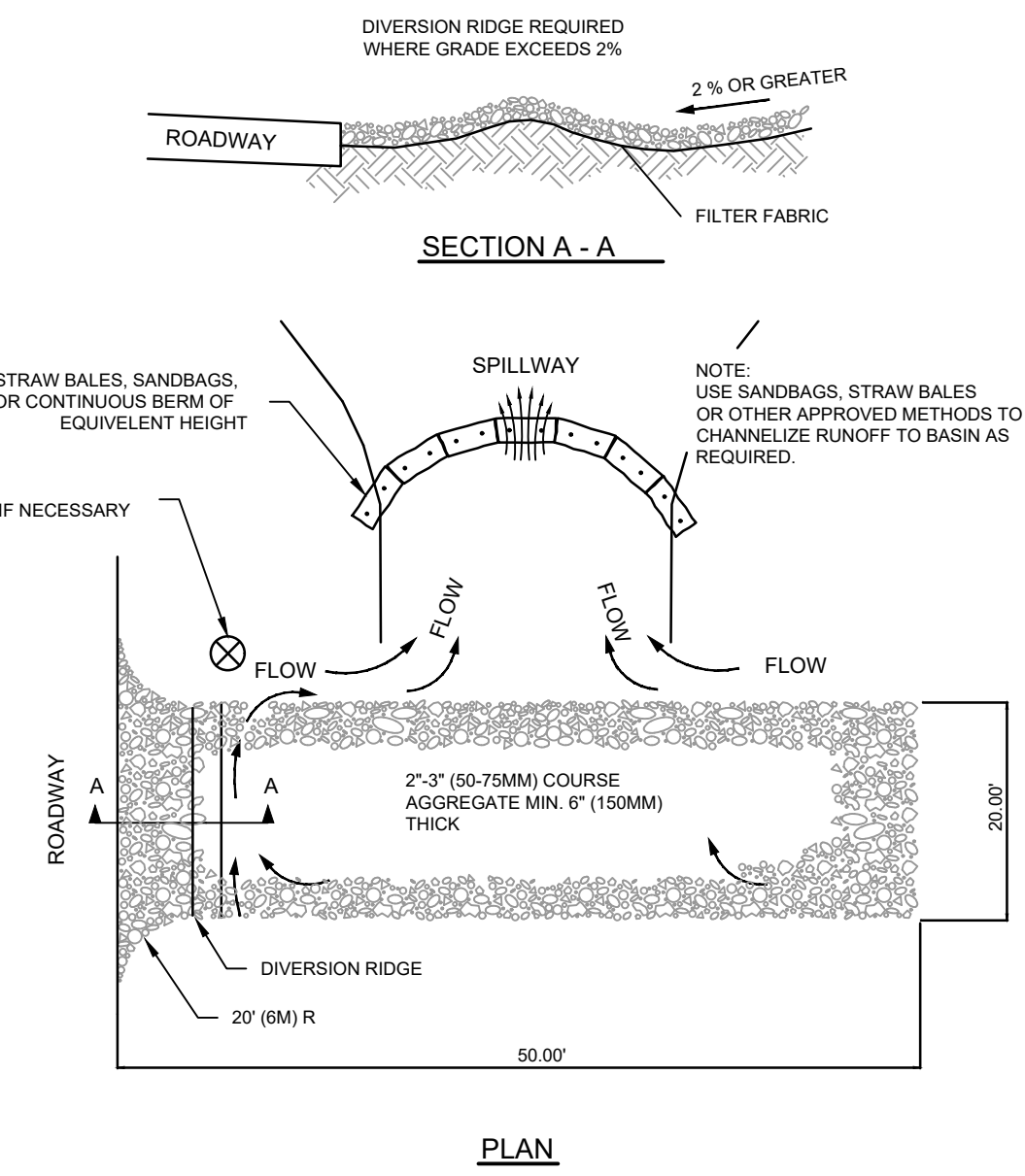
Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4832	kN (lbs)	1.78 (400) x 1.40 (315)
Grab Tensile Elongation	ASTM D 4832	%	15 x 15
Puncture Strength	ASTM D 4833	kN (lbs)	0.67 (150)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	5506 (800)
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.67 (150) x 0.73 (165)
UV Resistance	ASTM D 4355	%	90
Apparent Opening Size	ASTM D 4751	Mm (US Std Sieve)	0.425 (40)
Flow Rate	ASTM D 4491	1/min/m ² (gal/min/ft ²)	2852 (70)
Permittivity	ASTM D 4491	Sec ⁻¹	0.90

HI-FLOW DANDY SACK™ (SAFETY ORANGE)

Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4632	kN (lbs)	1.62 (365) x 0.89 (200)
Grab Tensile Elongation	ASTM D 4632	%	24 x 10
Puncture Strength	ASTM D 4833	kN (lbs)	0.40 (90)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	3097 (450)
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.51 (115) x 0.33 (75)
UV Resistance	ASTM D 4355	%	90
Apparent Opening Size	ASTM D 4751	Mm (US Std Sieve)	0.425 (40)
Flow Rate	ASTM D 4491	1/min/m ² (gal/min/ft ²)	5907 (145)
Permittivity	ASTM D 4491	Sec ⁻¹	2.1

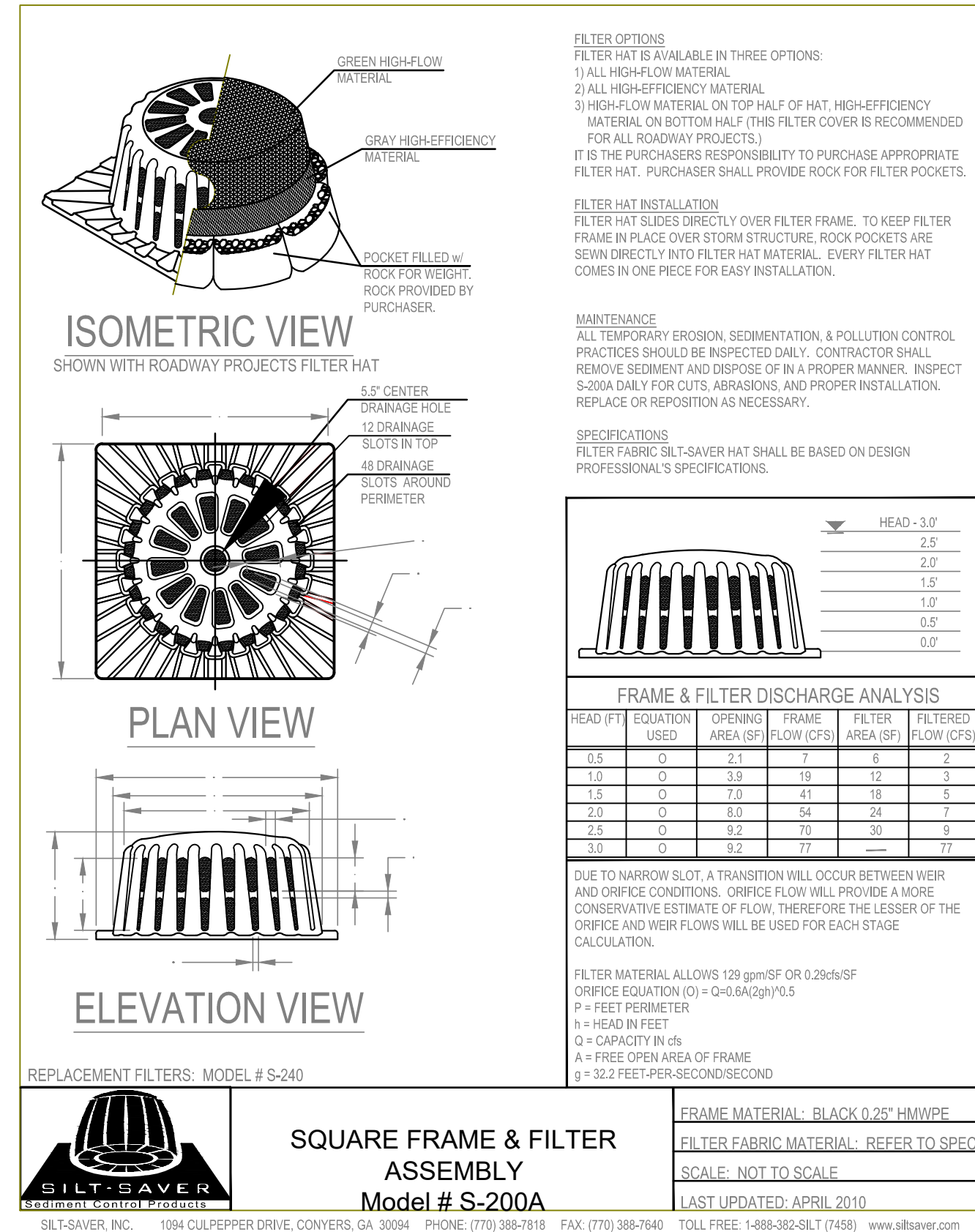
*Note: All Dandy Sacks™ can be ordered with our optional oil absorbent pillows

DANDY SACK INLET PROTECTION
N.T.S.



TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT DETAIL
N.T.S.

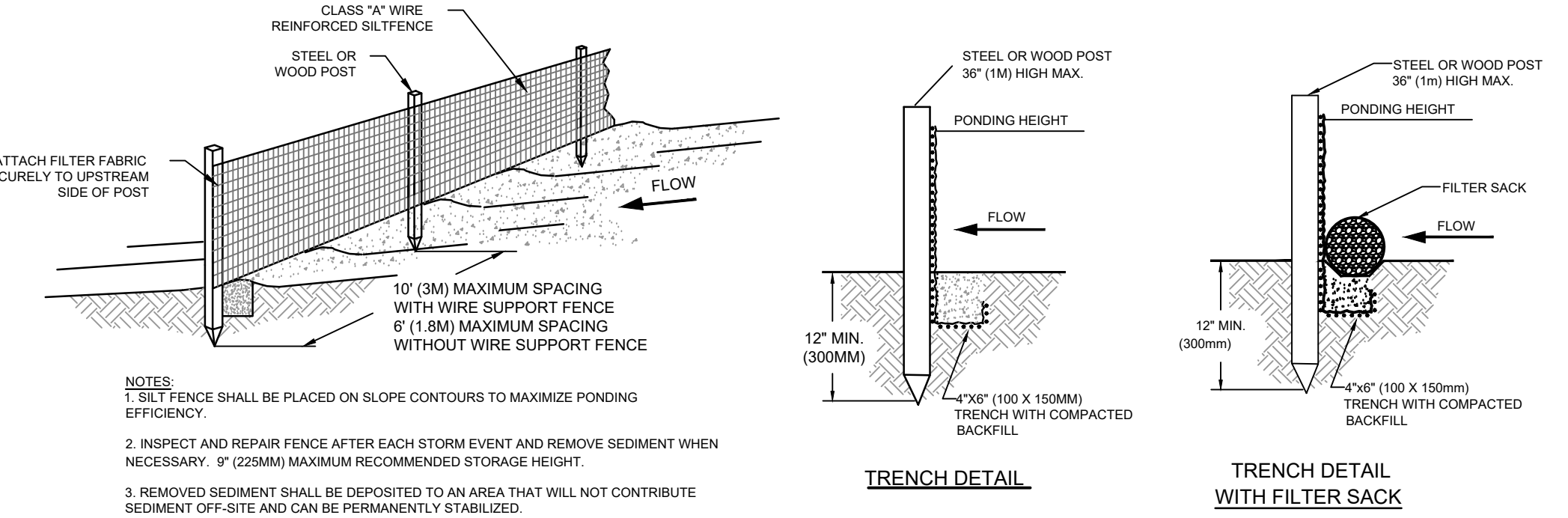
NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.



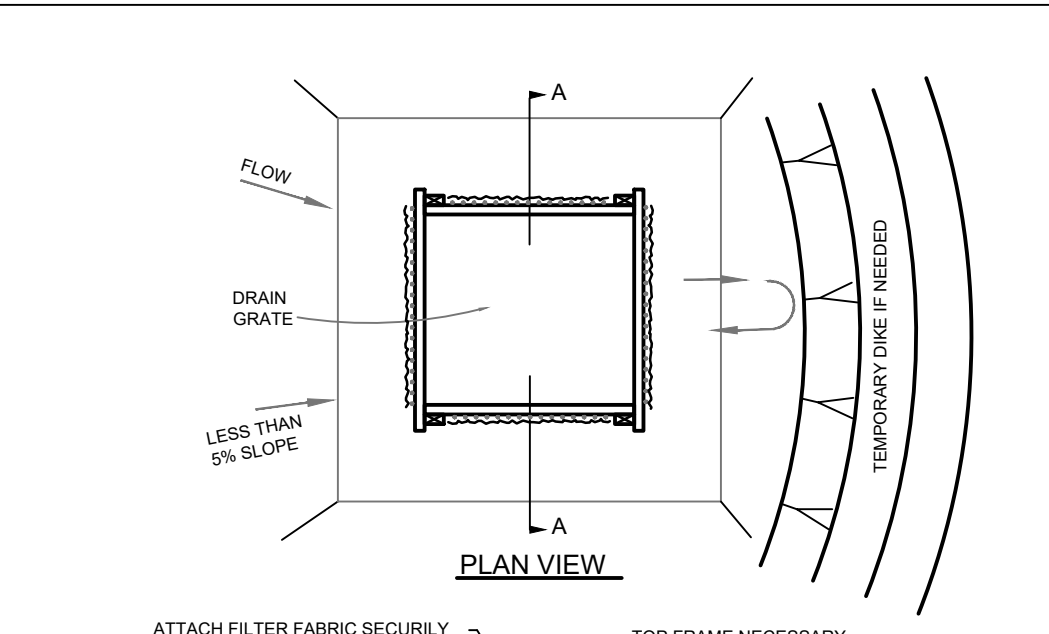
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LAST UPDATED: APRIL 2010

REPLACEMENT FILTERS: MODEL # S-200

FRAME MATERIAL: BLACK 6.00\"/>

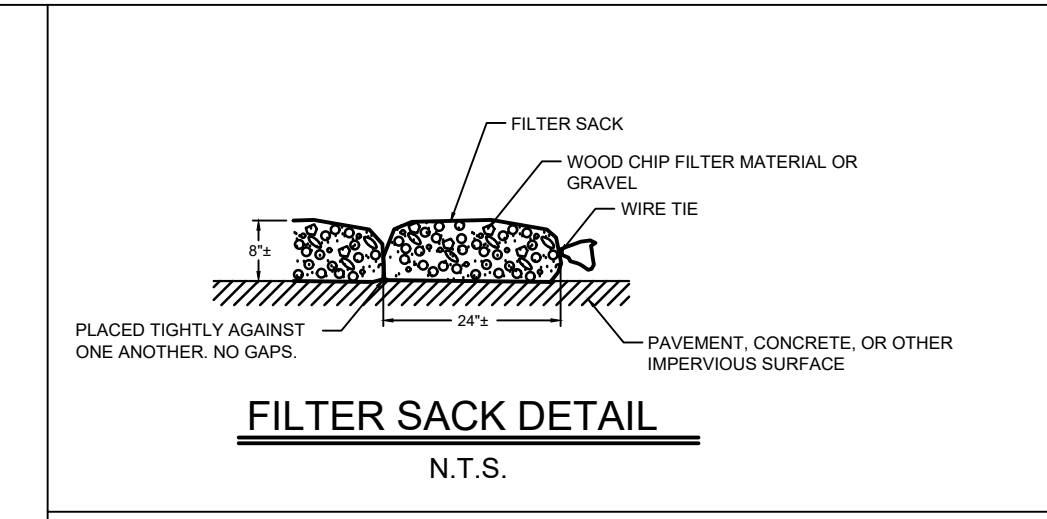


SILT FENCE DETAIL
N.T.S.



FABRIC DROP INLET SEDIMENT BARRIER
N.T.S.

NOTES:
1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS (LESS THAN 5%).
2. USE 2\"/>



FILTER SACK DETAIL
N.T.S.

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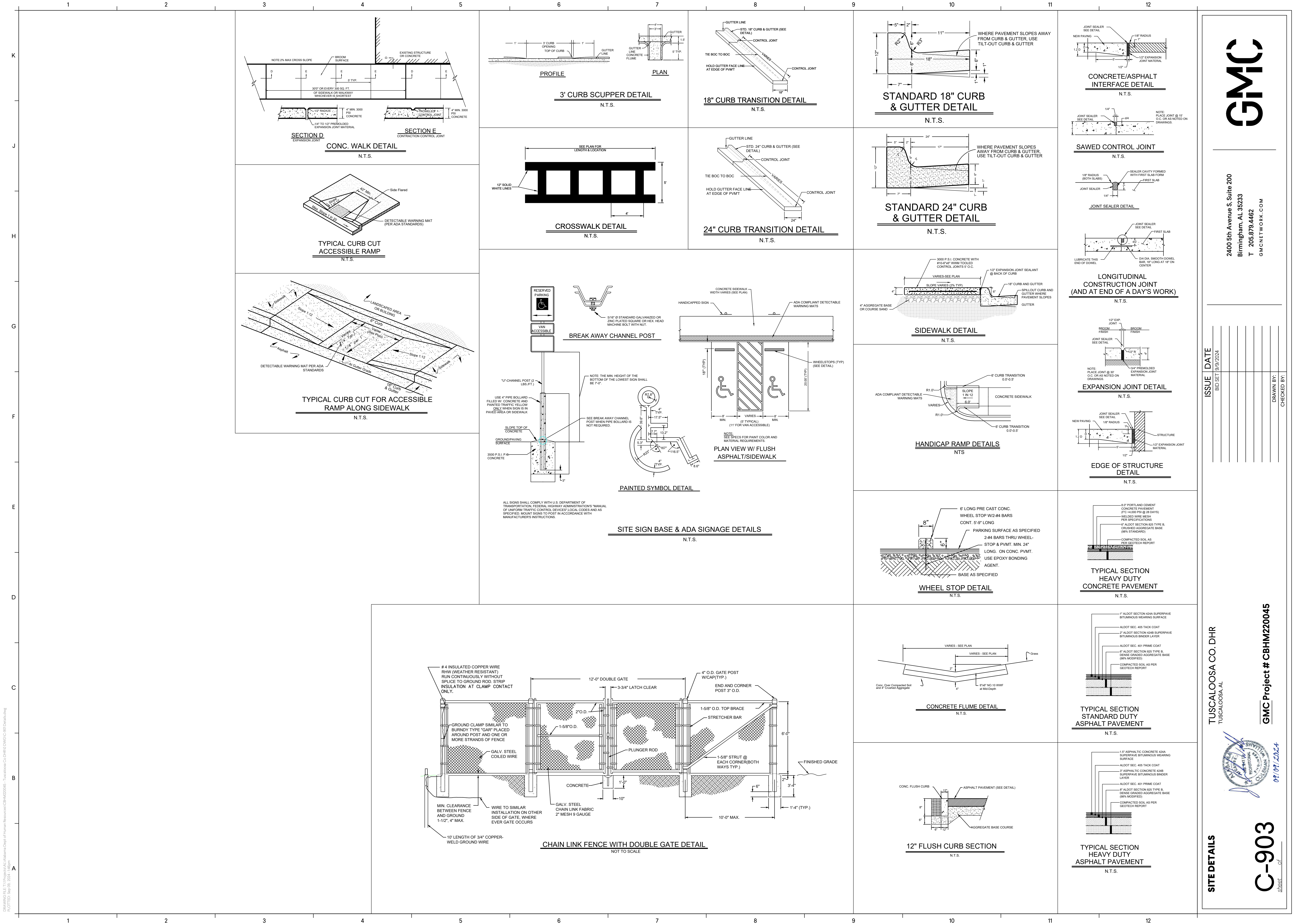
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EROSION AND SEDIMENTATION CONTROL DETAILS

C-901

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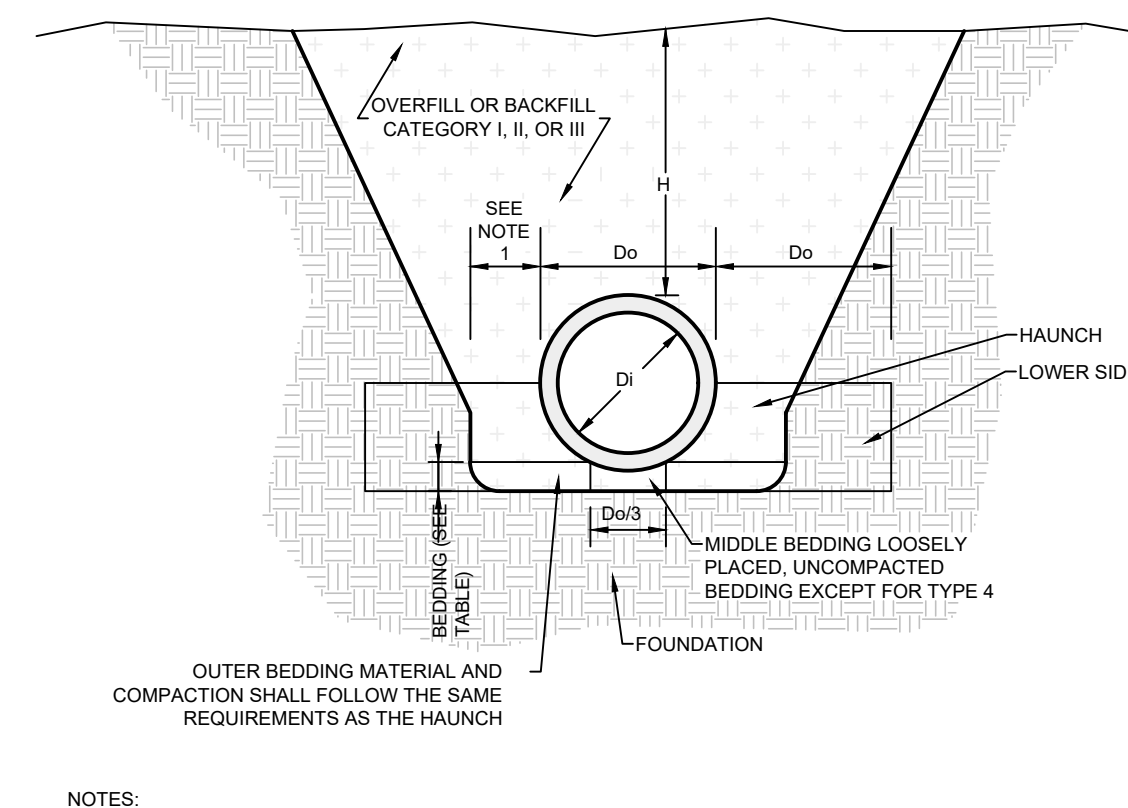
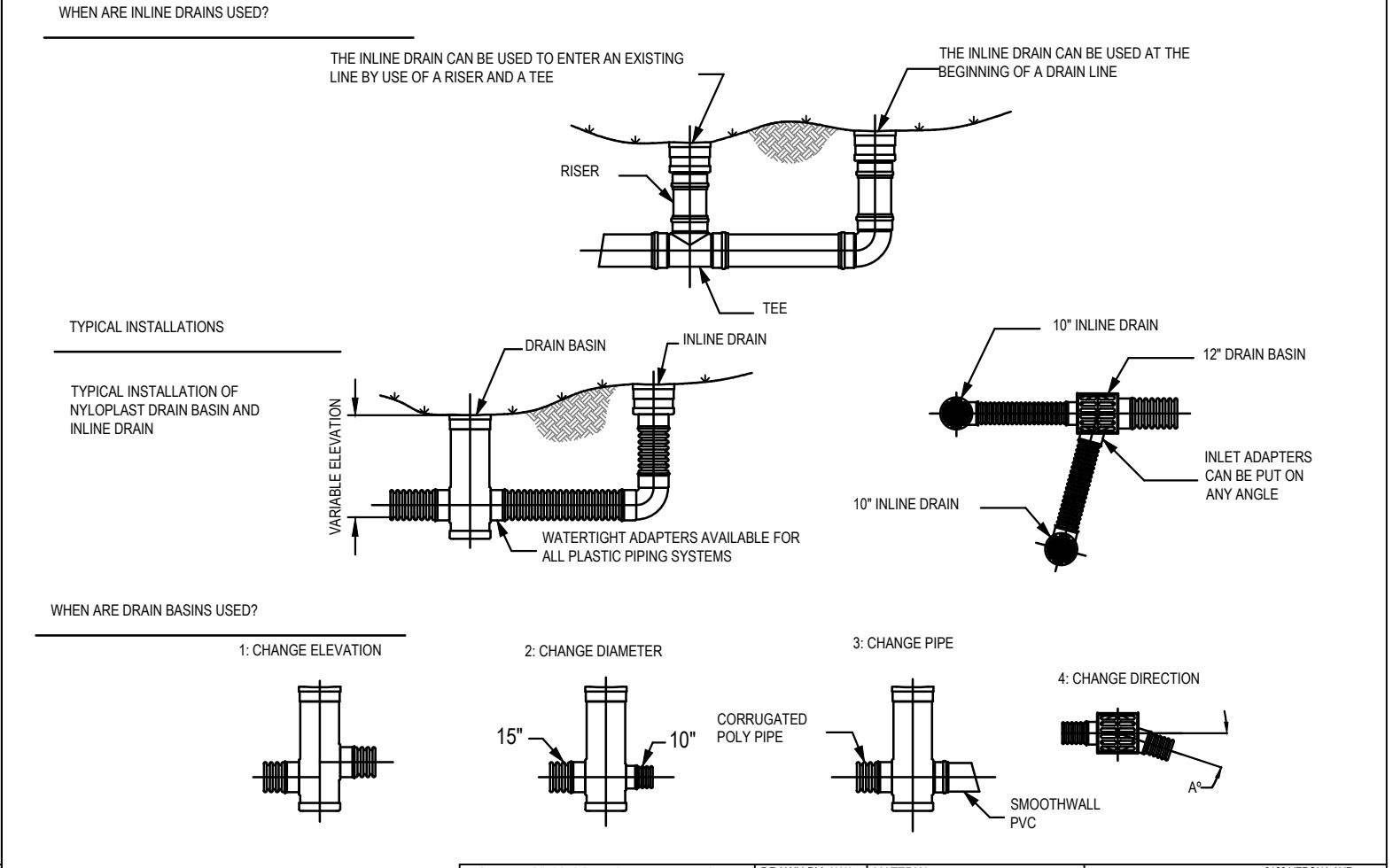
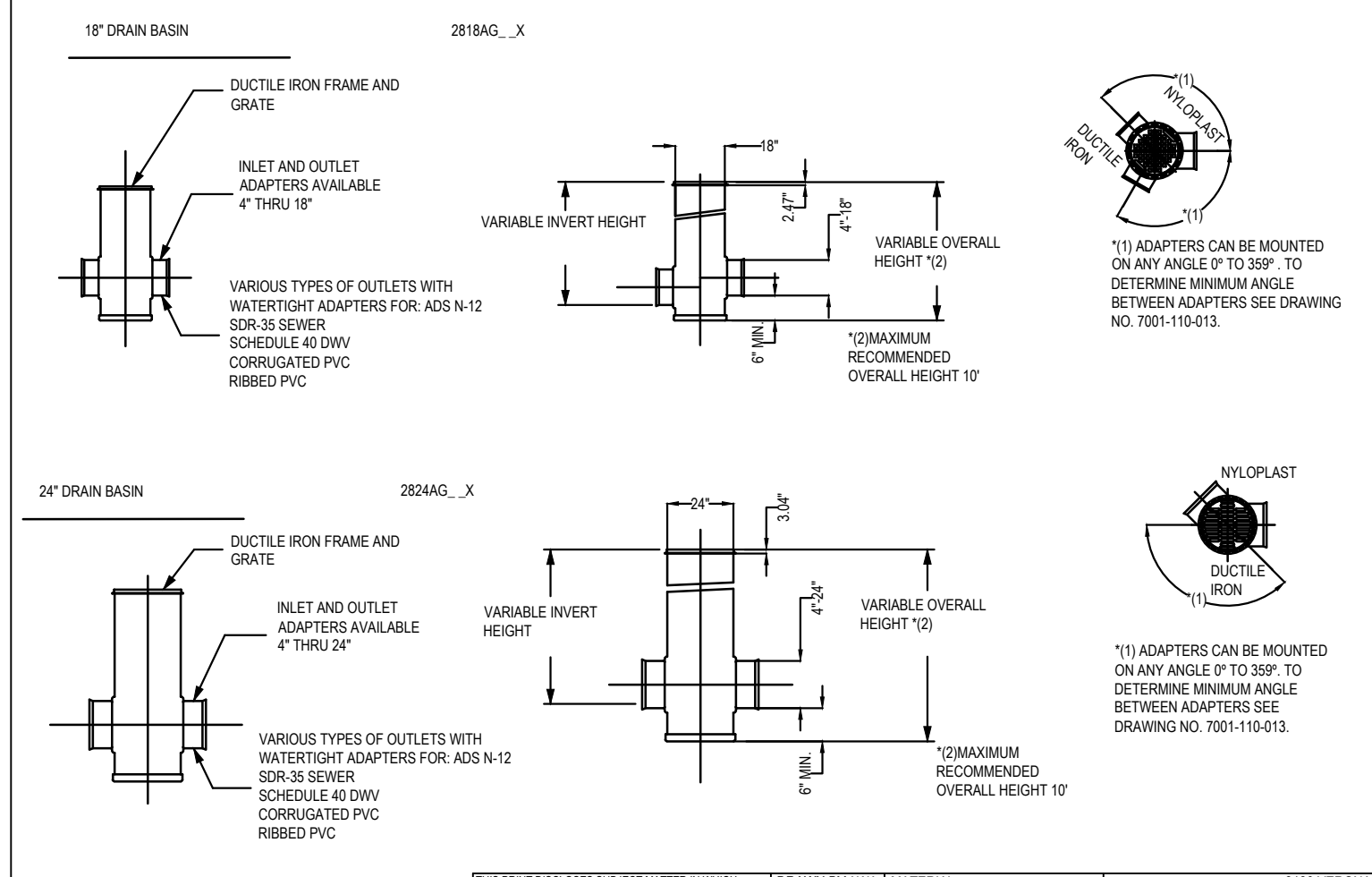
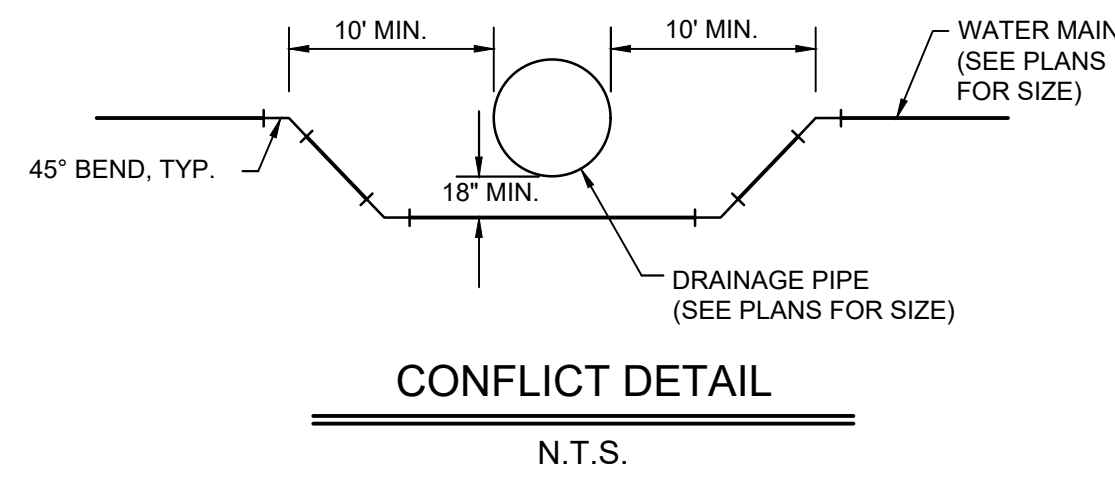
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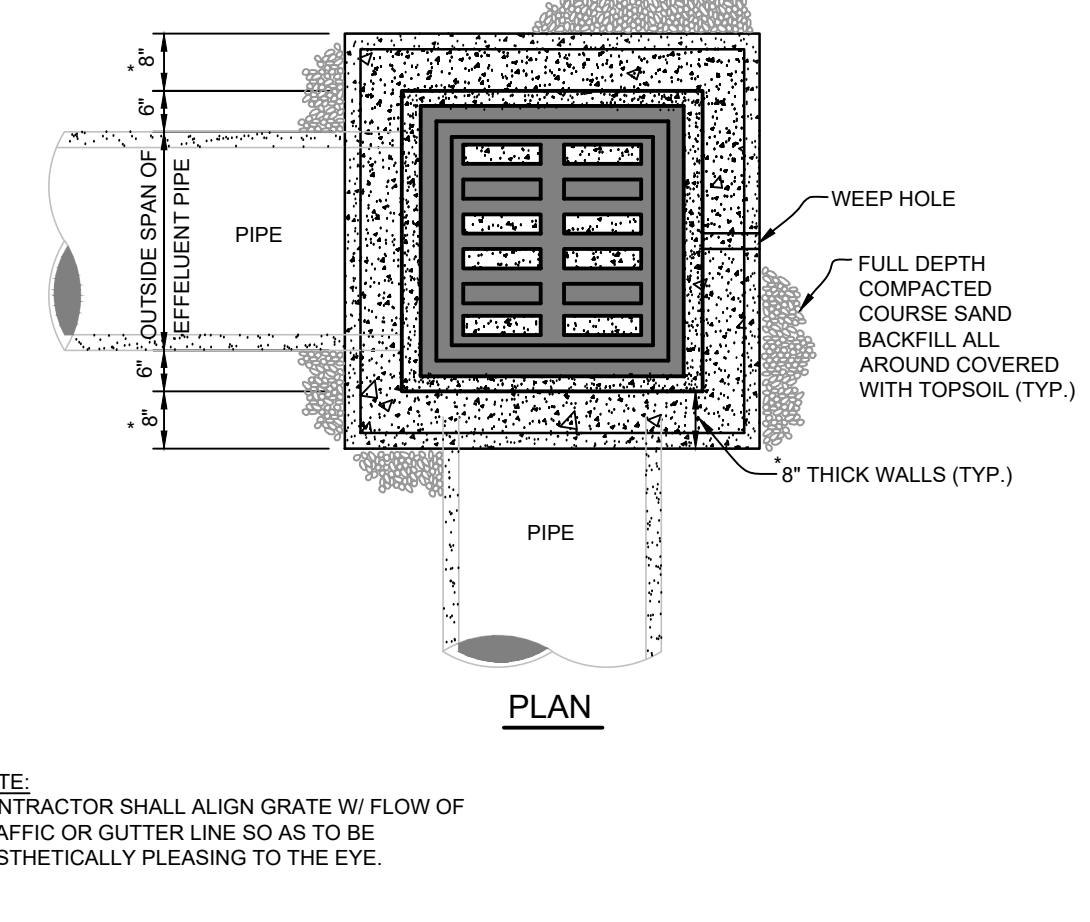
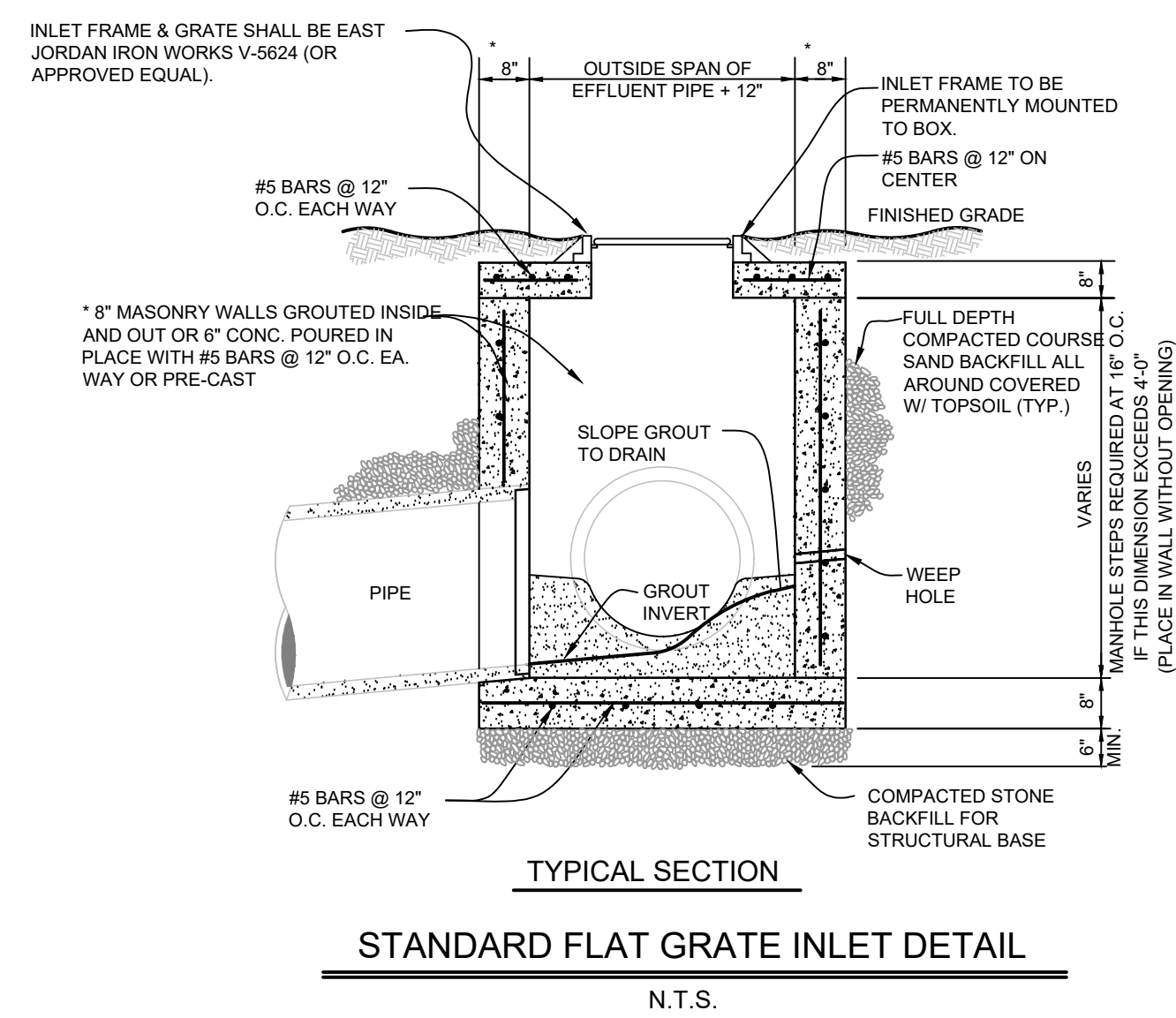
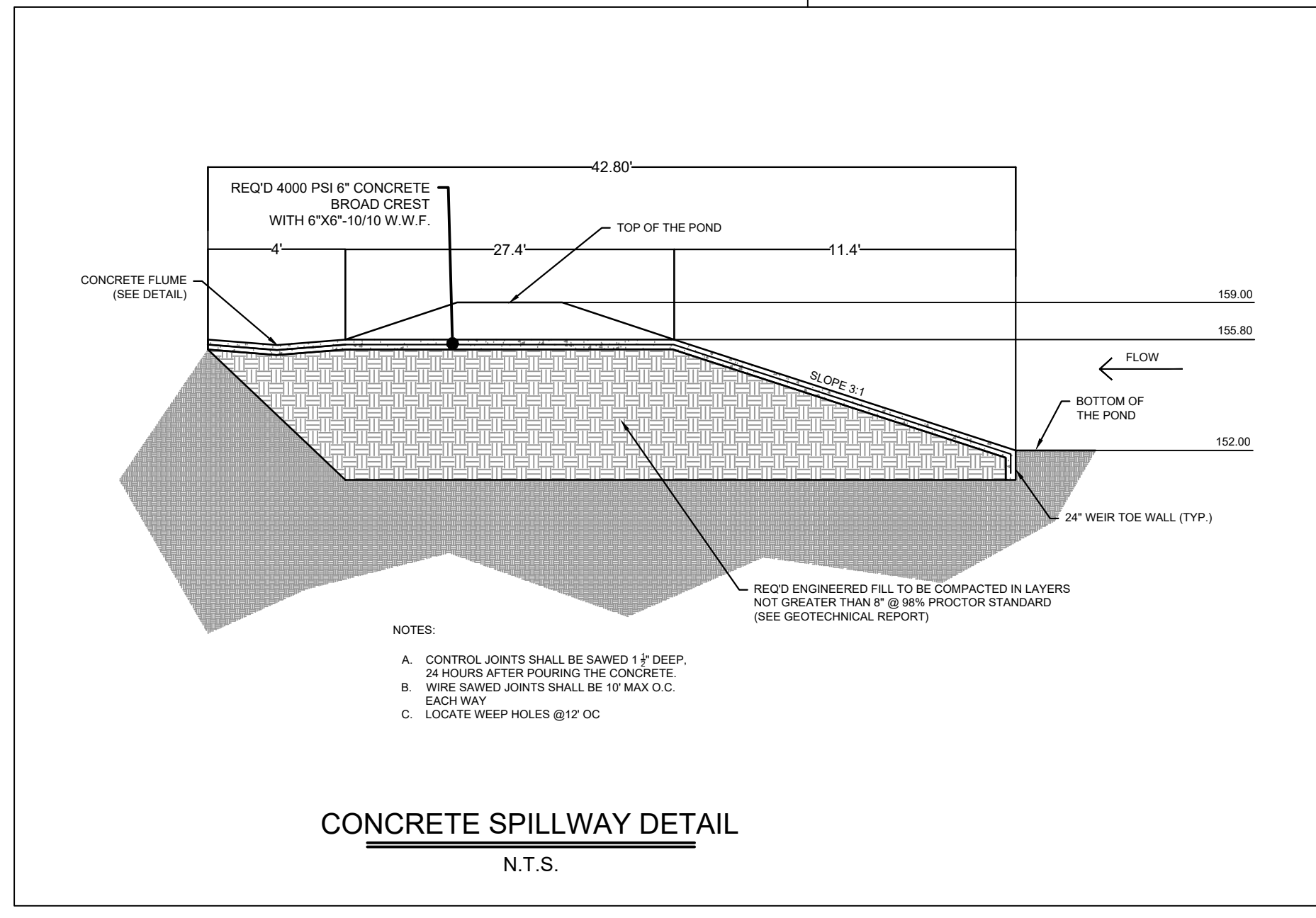
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EQUIVALENT USCS AND AASHTO SOIL CLASSIFICATIONS FOR SOIL DESIGNATIONS

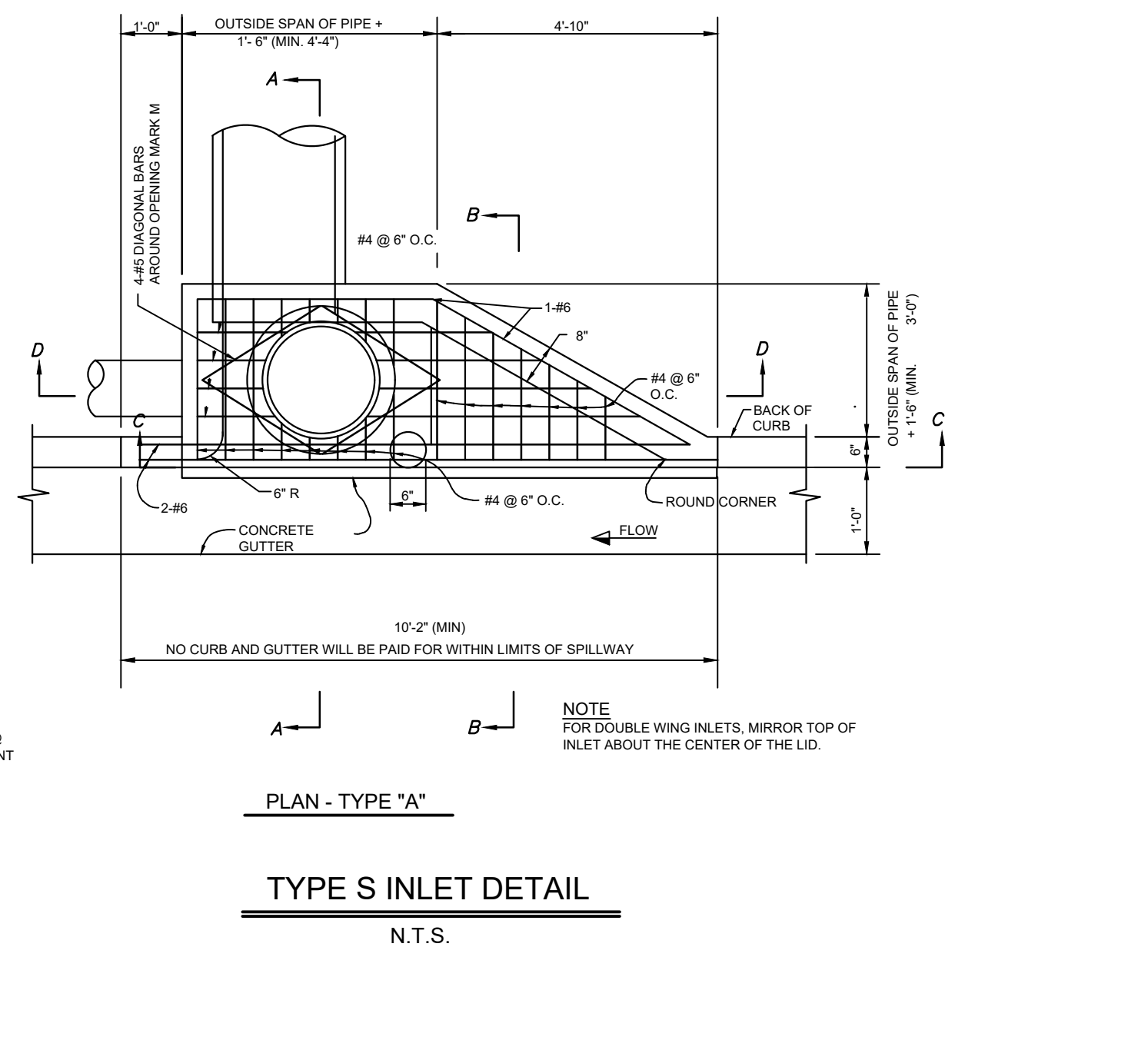
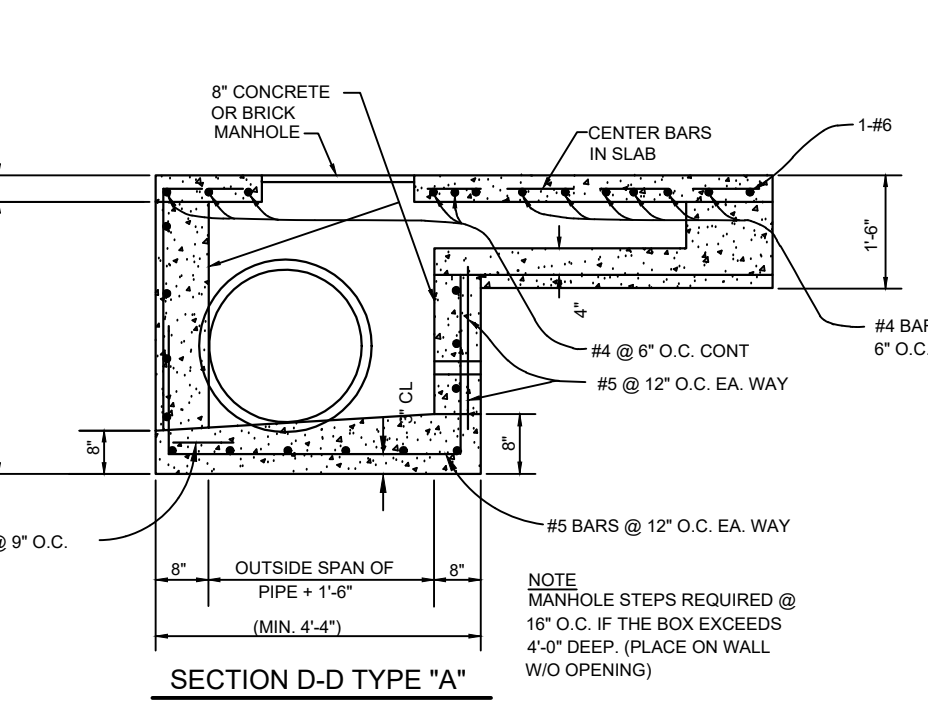
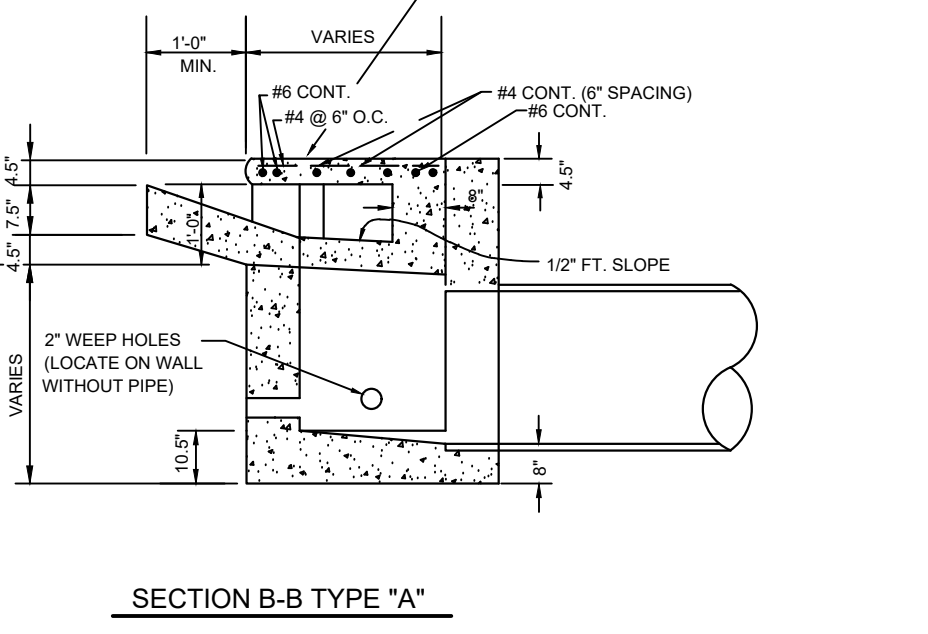
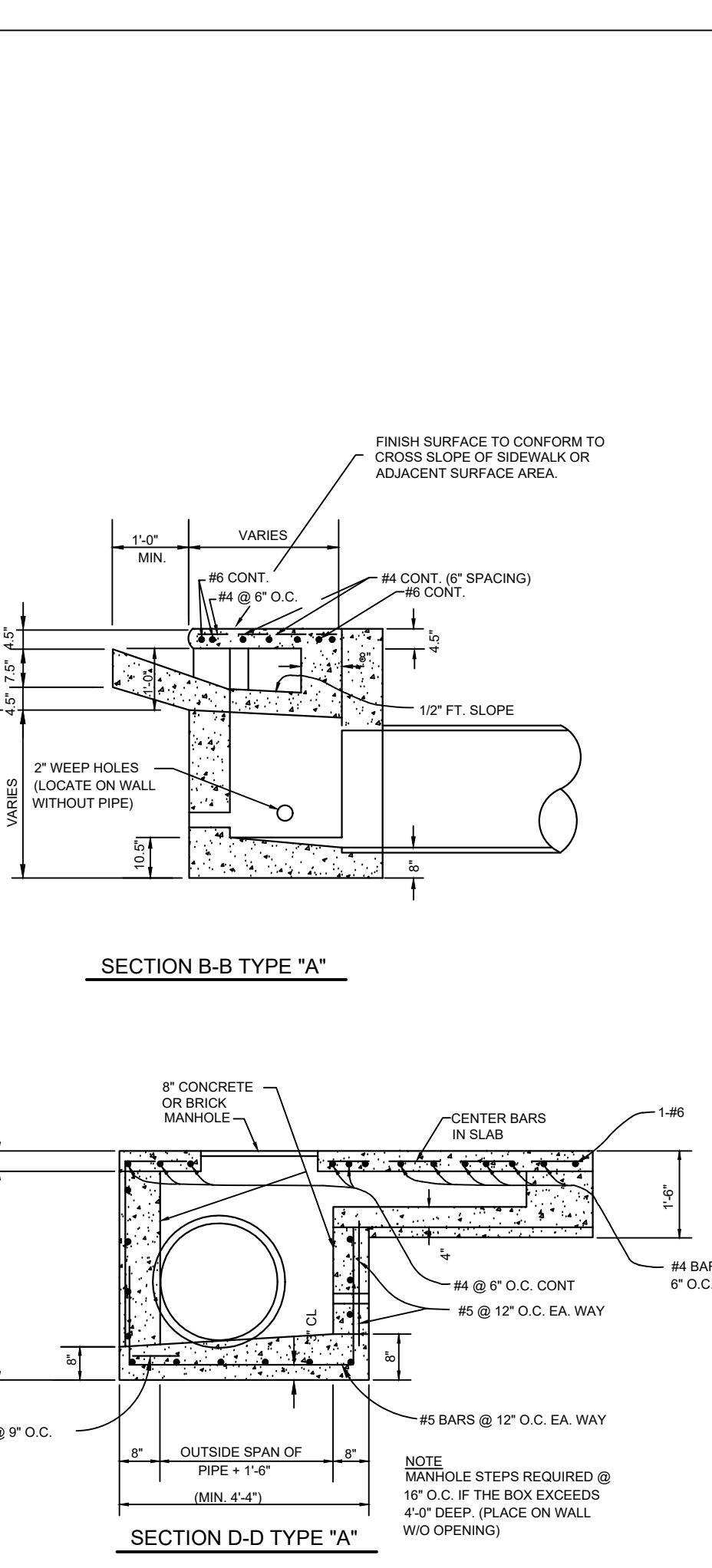
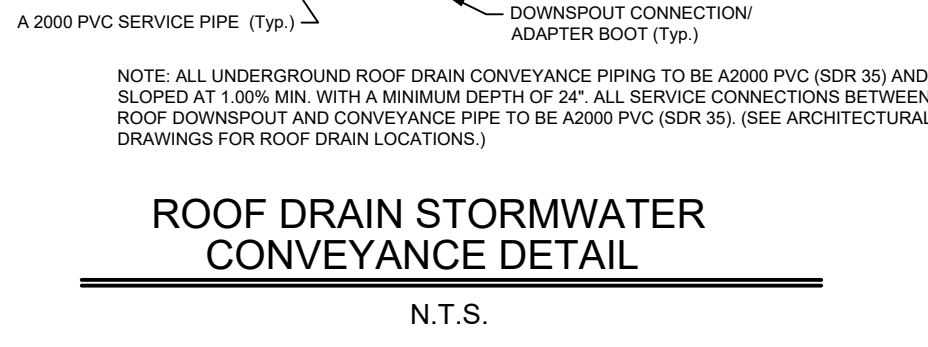
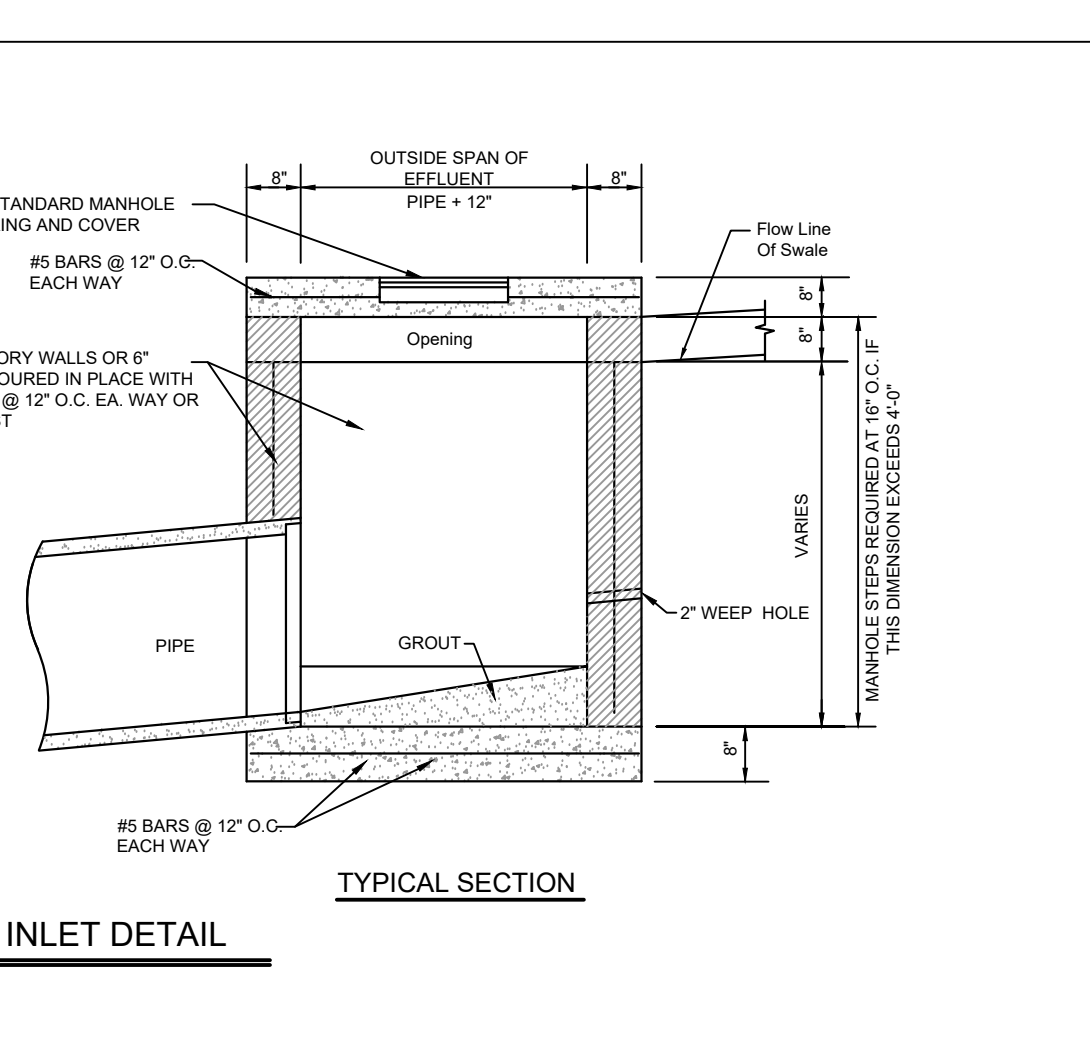
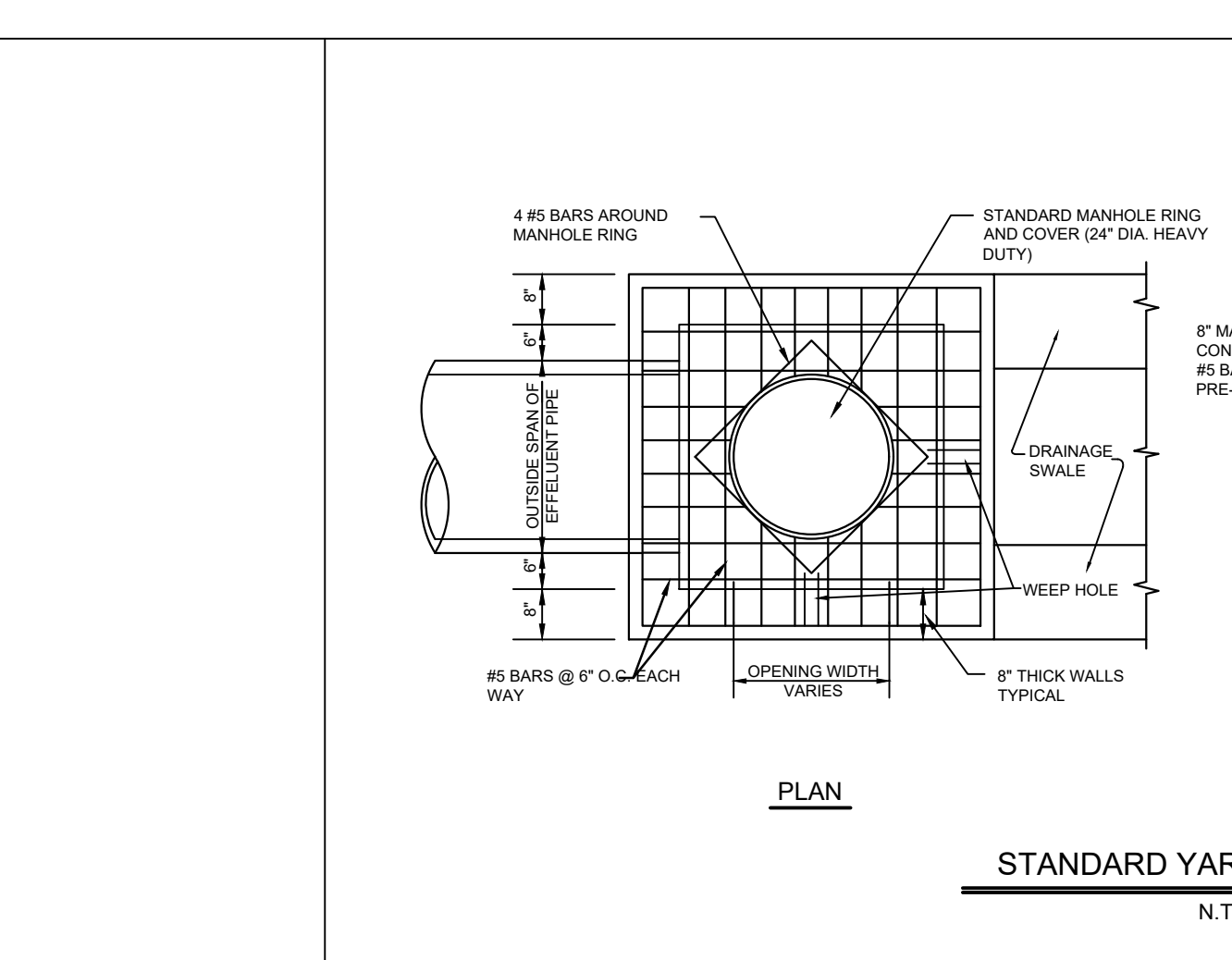
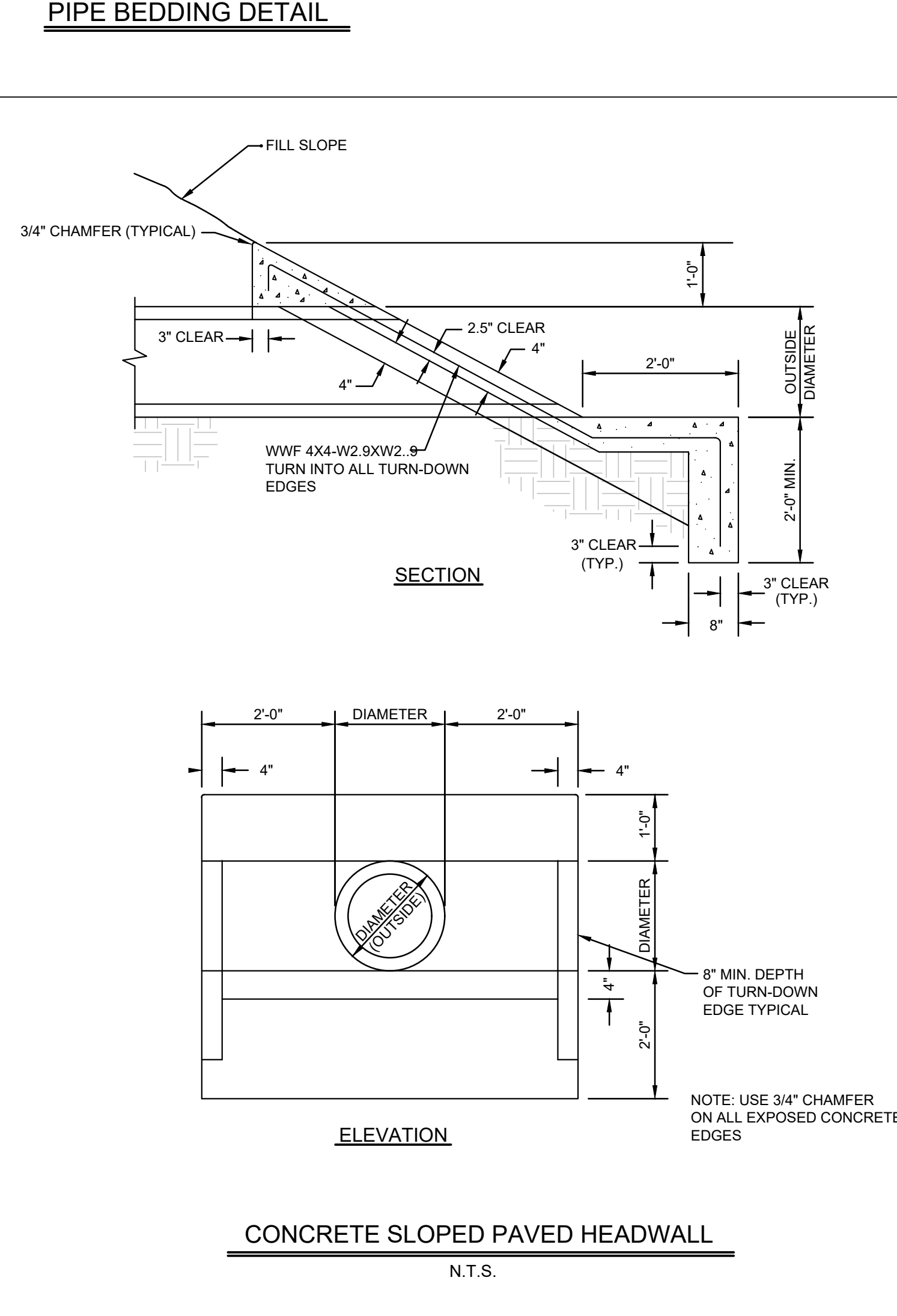
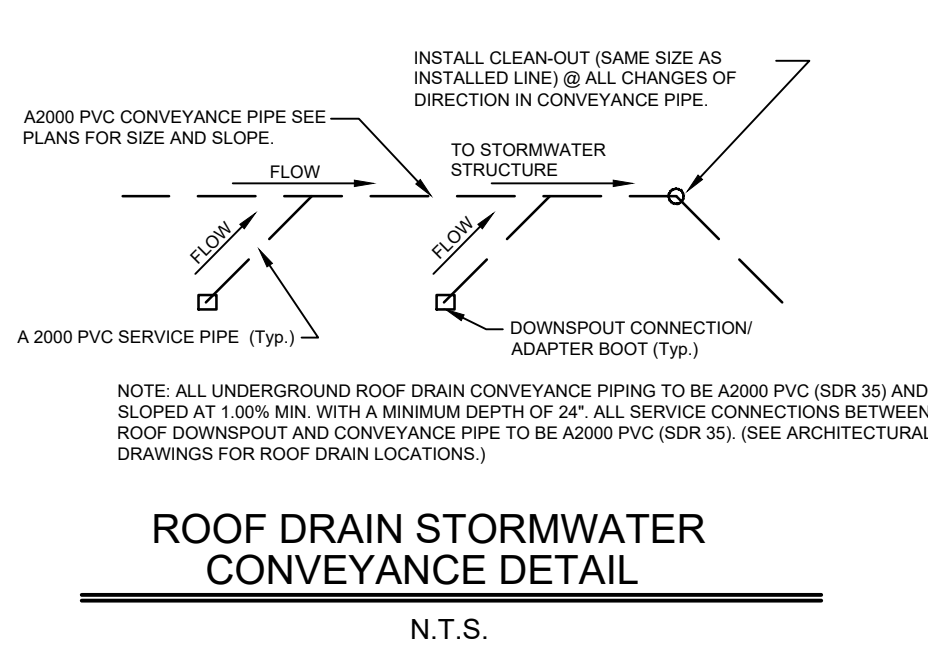
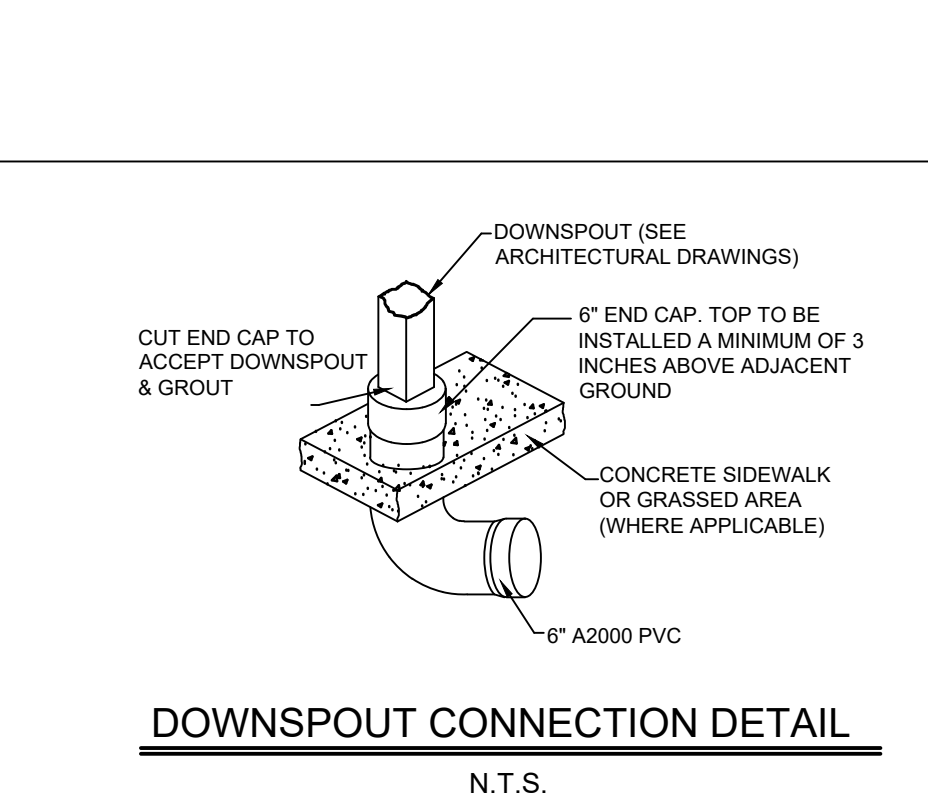
SOIL	REPRESENTATIVE SOIL TYPES		PERCENT COMPACTION	
	USCS ASTM D 2487	AASHTO M 145	STANDARD PROCTOR	MODIFIED PROCTOR
CATEGORY I	CLEAN, COURSE GRAINED SOILS: SW, SP, GW, GP OR ANY SOIL BEGINNING WITH ONE OF THESE SYMBOLS WITH 12% OR LESS PASSING A #200 SIEVE	A-1, A-3	100	95
			95	85
			85	80
CATEGORY II	COURSE GRAINED SOILS WITH FINES: GM, GC, SM, SC OR ANY SOIL BEGINNING WITH ONE OF THESE SYMBOLS, CONTAINING MORE THAN 12% PASSING A #200 SIEVE; SANDY OR GRAVELLY FINE-GRAINED SOILS: CL, ML (OR CL-M, CL-M, ML-CL) WITH 30% OR MORE RETAINED ON A #200 SIEVE	A-2.4, A-2.5, A-2.6 OR A-4 OR A-6 SOILS WITH 30% OR MORE RETAINED ON A #200 SIEVE	100	95
			95	90
			85	80
CATEGORY III	FINE-GRAINED SOILS: CL, ML (OR CL-M, CL-M, ML-CL) WITH LESS THAN 30% RETAINED ON A #200 SIEVE	A-2.7 OR A-4 OR A-6 WITH LESS THAN 30% RETAINED ON A #200 SIEVE	100	90
			95	85
			85	75
CATEGORY IV BUT NOT ALLOWED FOR HAUNCH OR BEDDING	MH, CH, OL, OH, FT	A-5, A-7	100	90
			95	85
			85	80

NOTES:
 1. CLEARANCE BETWEEN PIPE AND TRENCH WALL SHALL BE EQUAL TO D/6 OR 12" MINIMUM.
 2. COMPACTION AND SOIL SYMBOLS, IF 95% CATEGORY I, REFER TO A SOIL MATERIAL CATEGORY WITH A MINIMUM STANDARD PROCTOR DENSITY.
 3. WHEN THE TRENCH WIDTH SPECIFIED MUST BE EXCEEDED, THE ENGINEER SHALL BE NOTIFIED.
 4. THE TRENCH WIDTH SHALL BE WIDER THAN SHOWN IF REQUIRED FOR ADEQUATE SPACE TO ATTAIN THE SPECIFIED COMPACT IN THE HAUNCH AND BEDDING ZONES.
 5. EMBANKMENT LOADING SHALL BE USED WHEN TRENCH WALLS CONSIST OF EMBANKMENT UNLESS THE GEOTECH REPORT STATES THAT THE SOIL IN THE TRENCH WALLS IS COMPACTED TO A HIGHER LEVEL THAN THE SOIL IN THE BACKFILL ZONE.
 6. REQUIRED BEDDING THICKNESS IS THE THICKNESS OF THE BEDDING PRIOR TO THE PLACEMENT OF PIPE.
 7. "DUMPER" MATERIAL WITHOUT ADDITIONAL COMPACTIVE EFFORT WILL NOT PROVIDE THE DESIGN HAUNCH SUPPORT REQUIRED FOR TYPE I AND TYPE 2 INSTALLATIONS AND IT SHOULD BE CHECKED FOR TYPE 3 INSTALLATIONS.
 8. SOIL CLASSIFICATION AND COMPACTION REQUIREMENTS SHALL FOLLOW THE PROVIDED TABLES UNLESS OTHERWISE NOTED IN THE PROJECT GEOTECH REPORT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSELF/HERSELF WITH THE GEOTECH REPORT FOR ANY DISCREPANCIES.
 9. PIPE BEDDING DETAILS ARE FOR ROOF PIPES ONLY. THE INSTALLATIONS OF ANY OTHER TYPES OF PIPES (SUCH AS ULTRAFLO, HOPE, PVC, ETC.) SHALL BE INSTALLED AS PER THE MANUFACTURER'S STANDARDS AND SPECIFICATIONS.



SOIL AND MINIMUM COMPACTION REQUIREMENTS

INSTALLATION TYPE	BEDDING THICKNESS	HAUNCH AND OUTER BEDDING	LOWER SIDE
TYPE 1	D/24 MINIMUM; NOT LESS THAN 3 IN. IF ROCK FOUNDATION; USE D/12 MINIMUM; NOT LESS THAN 6 IN.	95% CATEGORY I	UNDISTURBED NATURAL SOIL WITH FINENESS EQUIVALENT TO THE FOLLOWING PLACED SOILS: 95% CATEGORY I, 90% CATEGORY II, OR 100% CATEGORY III, OR EMBANKMENT TO THE SAME REQUIREMENTS.
TYPE 2	D/24 MINIMUM; NOT LESS THAN 3 IN. IF ROCK FOUNDATION; USE D/12 MINIMUM; NOT LESS THAN 6 IN.	90% CATEGORY I OR 95% CATEGORY II	UNDISTURBED NATURAL SOIL WITH FINENESS EQUIVALENT TO THE FOLLOWING PLACED SOILS: 85% CATEGORY I, 90% CATEGORY II, OR 95% CATEGORY III, OR EMBANKMENT TO THE SAME REQUIREMENTS.
TYPE 3	D/24 MINIMUM; NOT LESS THAN 3 IN. IF ROCK FOUNDATION; USE D/12 MINIMUM; NOT LESS THAN 6 IN.	95% CATEGORY I, 90% CATEGORY II OR 95% CATEGORY III	UNDISTURBED NATURAL SOIL WITH FINENESS EQUIVALENT TO THE FOLLOWING PLACED SOILS: 85% CATEGORY I, 90% CATEGORY II, OR 95% CATEGORY III, OR EMBANKMENT TO THE SAME REQUIREMENTS.
TYPE 4	NO BEDDING REQUIRED, EXCEPT IF ROCK FOUNDATION; USE D/12 MINIMUM; NOT LESS THAN 6 IN.	NO COMPACTION REQUIRED; EXCEPT IF CATEGORY II, USE 85% CATEGORY III	NO COMPACTION REQUIRED, EXCEPT IF CATEGORY II, USE 85% CATEGORY III.



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 TUSCALOOSA, AL

GMC Project # CBHM220045

STORM DRAINAGE DETAILS

C-904
 Sheet of

07.07.2024

ISSUE DATE
 BID SET 09/9/2024

DRAWN BY:
 CHECKED BY:

PLACE HYDRANT WITH PUMPER NOZZLE FACING STREET
BREAK SECTION SEE SPECIFICATIONS
6" MAX. WRENCH CLEARANCE
EXTEND VALVE BOX WITH 6" PVC PIPE IF NECESSARY
CONCRETE THRUST BLOCK
STONE CUSHION
8 C.F. OF WASHED GRAVEL OR NO. 57 LIMESTONE
MAIN
1"-2"
VARIABLE
PRECAST CONCRETE BLOCK
ANCHOR COUPLING OR D.I. PIPE WITH RESTRAINT (NOTE 2)
SPOOL, M.J. ANCHOR COUPLING OR EQUAL (SEE NOTE 2)
PRECAST CONCRETE FOOTING

NOTE:
1. PLACE CONCRETE TO AVOID INTERFERENCE WITH BOLTS, GLANDS, ETC.
2. ALL VALVES AND HYDRANTS SHALL BE RESTRAINED WITH ANCHOR COUPLINGS OR 3/4" ALL-THREAD RODS.

City of TUSCALOOSA
Fire Hydrant Assembly
WATER DISTRIBUTION STANDARD DETAILS
DATE: 3/17/21 REVISION: BPP VALVE SIZE REQUIREMENTS BY: RBB/BBB
FILE NAME: WDSH-E31038 APPROVED BY: CITY OF TUSCALOOSA MANAGER: WAD PARRIS/BBB SCALE: NOT TO SCALE PAGE NO: 9-2
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REMOVABLE VALVE WRENCH
EXISTING GROUND
6" MAXIMUM LENGTH ASSUMED
GUIDE DISK 1 1/2" DIAMETER LESS THAN BOX DIAMETER
1" SOLID STEEL SHAFT
EXTEND VALVE BOX WITH 6" PVC PIPE IF NECESSARY
7/8" STEEL PLATE 4 1/2" DIAMETER
CONG. BLOCK CUSHION (TYP.)
SET SCREWS
PRECAST CONCRETE FOOTING

City of TUSCALOOSA
Valve Box and Operating Nut Extension
WATER DISTRIBUTION STANDARD DETAILS
DATE: 3/17/21 REVISION: BPP VALVE SIZE REQUIREMENTS BY: RBB/BBB
FILE NAME: WDSH-E31038 APPROVED BY: CITY OF TUSCALOOSA MANAGER: WAD PARRIS/BBB SCALE: NOT TO SCALE PAGE NO: 9-3
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1 1/2" OR 2" PREBUILT BY-PASS ASSEMBLY
2" BRONZE FLANGES
IF 1 1/2" USE 2"x1 1/2" BUSHING HERE
2" BRASS 90°
2" TAP SADDLE
2" BRASS NIPPLE
2"RS GATE VALVE
2" BRASS 90°
2" BRASS
1 1/2" OR 2" METER
2" BRASS NIPPLE
2" BRASS 90°
2" PVC FOR CLOSE LENGTH
2" PVC FOR LONG LENGTH
PRECAST CONCRETE BLOCK
PROFILE VIEW
PLAN VIEW

METER SETS		
INSTALLATION CONTEXT	GRASS	HARDSCAPE
METER BOX TYPE	2- JUMBO METER BOXES	QUAZITE VAULTS
1.5"	13"x20"x12"	3'x5'
2"	13"x20"x12"	3'x5'

NOTE: CONCRETE VAULTS NOT SUPPLIED BY CITY.

City of TUSCALOOSA
1 1/2" & 2" METER SET
WATER DISTRIBUTION STANDARD DETAILS
DATE: 3/17/21 REVISION: METER SET INSTALLATION BOX NOTES BY: BMG
FILE NAME: WDSH-E31038 APPROVED BY: CITY OF TUSCALOOSA MANAGER: WAD PARRIS/BBB SCALE: NOT TO SCALE PAGE NO: 9-5b
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FIRE LINE DETECTOR CHECK METER
INSTALL WITH FLANGE BY M.J. ADAPTOR FOR EASE OF REMOVAL OR REPAIR.
DOUBLE CHECK VALVE ASSEMBLY
QUAZITE POLYMER CONCRETE ENCLOSURE* (OR APPROVED EQUIVALENT)
4" MINIMUM No. 57 CRUSHED LIMESTONE
RISING STEM VALVES
ENDS TO BE SEALED WITH MORTAR

NOTE: DOUBLE CHECK VALVE ASSEMBLY, PIPING AND VAULT SIZE WILL VARY DEPENDING ON MAIN SIZE. DETAIL SHOWN IS PROVIDED AS A "TYPICAL" INSTALLATION. CITY WILL ALLOW DEVELOPER INSTALLED FIRE PROTECTION TAMPER SWITCHES. THE CITY WILL NOT MAINTAIN THE SWITCHES.

FIRE LINE SIZE	VAULT SIZE
2"	2'x3'
3"	3'x5'
4"	3'x5'
6"	4'x6'
8"	4'x6'

* LOCATION OF ASSEMBLY MAY REQUIRE AN ENCLOSURE RATED FOR HIGHER LOADS.

City of TUSCALOOSA
Double Check Valve Assembly
WATER DISTRIBUTION STANDARD DETAILS
DATE: 3/17/21 REVISION: FIRE LINE DETECTOR CHECK METER BY: BMG
FILE NAME: WDSH-E31038 APPROVED BY: CITY OF TUSCALOOSA MANAGER: WAD PARRIS/BBB SCALE: NOT TO SCALE PAGE NO: 9-7
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INSTALL WITH FLANGE BY M.J. ADAPTOR FOR EASE OF REMOVAL OR REPAIR.
WATER MAIN
VALVE
VALVE
VALVE
VALVE
4" MINIMUM No. 57 CRUSHED LIMESTONE
PRECAST CONCRETE VAULT WITH ACCESS TIE-IN AS MANUFACTURED BY FAB-CON (OR APPROVED EQUIVALENT)
NOTE: ALL PIPING INCLUDED IN METER STATION INSTALLATION SHALL BE CL. 250 DUCTILE IRON, FLANGED. DIMENSIONS SHOWN ARE APPROXIMATE & MAY VARY WITH DIFFERENT FITTINGS & VALVE MANUFACTURERS. METER, VALVE AND PIPING SIZE WILL VARY DEPENDING ON FLOW REQUIRED. DETAIL SHOWN IS PROVIDED AS A "TYPICAL" INSTALLATION.

METER SIZE	METER VAULT SIZE	BACK FLOW PREVENTER VAULT SIZE
3"	3' X 5' X 3'	3' X 5' X 3'
4"	4' X 6' X 4'	4' X 6' X 4'
6"	4' X 8' X 4'	4' X 6' X 4'
8"	4' X 8' X 4'	4' X 6' X 4'

NOTE: ENTIRE ASSEMBLY BY BACKFLOW (PURCHASED FROM CITY OF TUSCALOOSA)

City of TUSCALOOSA
3" AND LARGER METER SET
WATER DISTRIBUTION STANDARD DETAILS
DATE: 3/17/21 REVISION: BPP VALVE SIZE REQUIREMENTS BY: RBB/BBB
FILE NAME: WDSH-E31038 APPROVED BY: CITY OF TUSCALOOSA MANAGER: WAD PARRIS/BBB SCALE: NOT TO SCALE PAGE NO: 9-8
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NOTE: BLOCKING SHALL BE PLACED AGAINST SUITABLE UNDISTURBED EARTH OR ROCK.
E DEPTH
CONCRETE (3000 psi)

PIPE SIZE	BLOCK DIMENSION				FITTING TYPE
D	A	B	C	E	
6" OR LESS	10"	2'-0"	2'-6"	2'-6"	90°, 45°, 22½°, 11½° BENDS
6" OR LESS	10"	2'-0"	2'-6"	2'-0"	DEAD ENDS, TEES
8"	10"	2'-0"	3'-0"	2'-6"	90°, 45°, 22½°, 11½° BENDS
8"	10"	2'-0"	3'-0"	2'-0"	DEAD ENDS, TEES
10"	1'-2"	3'-0"	3'-6"	3'-0"	90°, 45°, 22½°, 11½° BENDS
10"	1'-2"	3'-0"	3'-6"	2'-6"	DEAD ENDS, TEES
12"	1'-2"	3'-0"	4'-6"	3'-6"	90°, 45°, 22½°, 11½° BENDS
12"	1'-2"	3'-0"	4'-6"	3'-0"	DEAD ENDS, TEES
14"	1'-6"	3'-6"	5'-0"	4'-0"	90°, 45°, 22½°, 11½° BENDS
14"	1'-6"	3'-6"	5'-0"	3'-0"	DEAD ENDS, TEES
16"	1'-6"	3'-6"	5'-0"	5'-0"	90°, 45°, 22½°, 11½° BENDS
16"	1'-6"	3'-6"	5'-0"	4'-0"	DEAD ENDS, TEES

* THRUST BLOCKS FOR LINES GREATER THAN 16" SHALL BE DESIGNED BY THE DESIGN ENGINEER FOR THE INDIVIDUAL PROJECT.

SOURCE: DIPRA THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE

City of TUSCALOOSA
Thrust Block Detail
WATER DISTRIBUTION STANDARD DETAILS
DATE: 3/17/21 REVISION: BPP VALVE SIZE REQUIREMENTS BY: RBB/BBB
FILE NAME: WDSH-E31038 APPROVED BY: CITY OF TUSCALOOSA MANAGER: WAD PARRIS/BBB SCALE: NOT TO SCALE PAGE NO: 9-10
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IMPROVED AREAS OR LAWNS, FROM CENTER LINE OF PIPE, MATERIAL SHALL BE PLACED IN 8" LAYERS. TOP 6" SHALL BE TOPSOIL FREE FROM ROCKS, ROOTS & ETC.
GRASS OR SOO AS PER EXISTING
TOPSOIL
EXISTING GROUND
BACKFILL TO SOFT (COVER) MAX. 8" LOOSE LIFTS
TRENCH
PIPE DIAMETER PLUS 24 INCHES (AWWA C600-10)

BACKFILL SHALL BE NATIVE MATERIAL FREE OF LARGE ROCKS OR HARD MATERIALS. SHALL BE COMPACTED TO 90% S.P.D. TO CL. OF PIPE TO INSURE THAT NO VOID OR UNCOMPACTED AREAS OCCUR.

NOTES:
1.) TRENCH FOUNDATION REQUIRED IF DIRECTED BY THE OWNER. DEPTH VARIES.
2.) ALL SLOPES SHALL CONFORM TO OSHA REQUIREMENTS. ADDITIONAL PROTECTIVE MEASURES MAY BE REQUIRED ABOVE AND BEYOND OSHA. DEPENDING ON SPECIFIC TRENCH CONDITIONS. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFETY OF WORKERS, THE GENERAL PUBLIC, AND OTHERS INVOLVED IN THE PROJECT AND SHALL PROVIDE SHEETING, BRACING, OR WHATEVER ACTION NECESSARY TO INSURE THE SAFETY OF PEOPLE, PROPERTY, AND STRUCTURES.
3.) BEDDING:
(A) CLASS "1" SHALL BE ALDOT 801 No. 57 CRUSHED LIMESTONE (FOR P.V.C. PIPE USE ALDOT 8910)
(B) CLASS "2" SHALL BE REINFORCED CONCRETE 3000 PSI DESIGN MIX
(C) CLASS "3" SHALL BE NATIVE SOIL
4.) MINIMUM DEPTH OF COVER VARIES (SEE SECTION 2.10 MINIMUM / MAXIMUM COVER).

City of TUSCALOOSA
TRENCH DETAIL Improved Areas or Lawns
WATER DISTRIBUTION STANDARD DETAILS
DATE: 3/17/21 REVISION: BPP VALVE SIZE REQUIREMENTS BY: RBB/BBB
FILE NAME: WDSH-E31038 APPROVED BY: CITY OF TUSCALOOSA MANAGER: WAD PARRIS/BBB SCALE: NOT TO SCALE PAGE NO: 9-13
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TEST SADDLE @ 50 PSI (AIR) FOR 5 MINUTES. * ALLOWABLE LEAKAGE
TAPPING SLEEVE MUST HAVE TEST PORT, FOR PRESSURE TESTING SADDLE BEFORE TAPPING WATER MAIN
VALVE BOX - EXTEND WITH 6" PVC IF NECESSARY
POURED CONCRETE THRUST BLOCK IF IT IS A SIZE ON SIZE TAP (EX. 8" X 6" TAP)
FLANGE X MECHANICAL JOINT (FLG X M.J.) TAP VALVE
MEGALUG WITH RESTRAINT ANCHOR COUPLING, D.I. PIPE, ETC.
TAPPING SLEEVE - STAINLESS STEEL (18-8 TYPE 304) WITH FULL CIRCUMFERENCE RUBBER GASKET
PRECAST CONCRETE BLOCK IN PLACE BEFORE TAPPING MAIN TO PREVENT STRESSES ON THE MAIN
* WHEN TAPPING A 16" OR LARGER MAIN, MECHANICAL JOINT TAPPING SLEEVE MUST BE USED
** ALL U OF A PROJECTS MUST USE MECHANICAL JOINT TAPPING SLEEVE REGARDLESS OF SIZE. PER U OF A CONTRACT (TIM LEOPARD)

City of TUSCALOOSA
TAPPING SLEEVE & VALVE
WATER DISTRIBUTION STANDARD DETAILS
DATE: 3/17/21 REVISION: METER SET INSTALLATION BY: BMG
FILE NAME: WDSH-E31038 APPROVED BY: CITY OF TUSCALOOSA MANAGER: WAD PARRIS/BBB SCALE: NOT TO SCALE PAGE NO: 9-16
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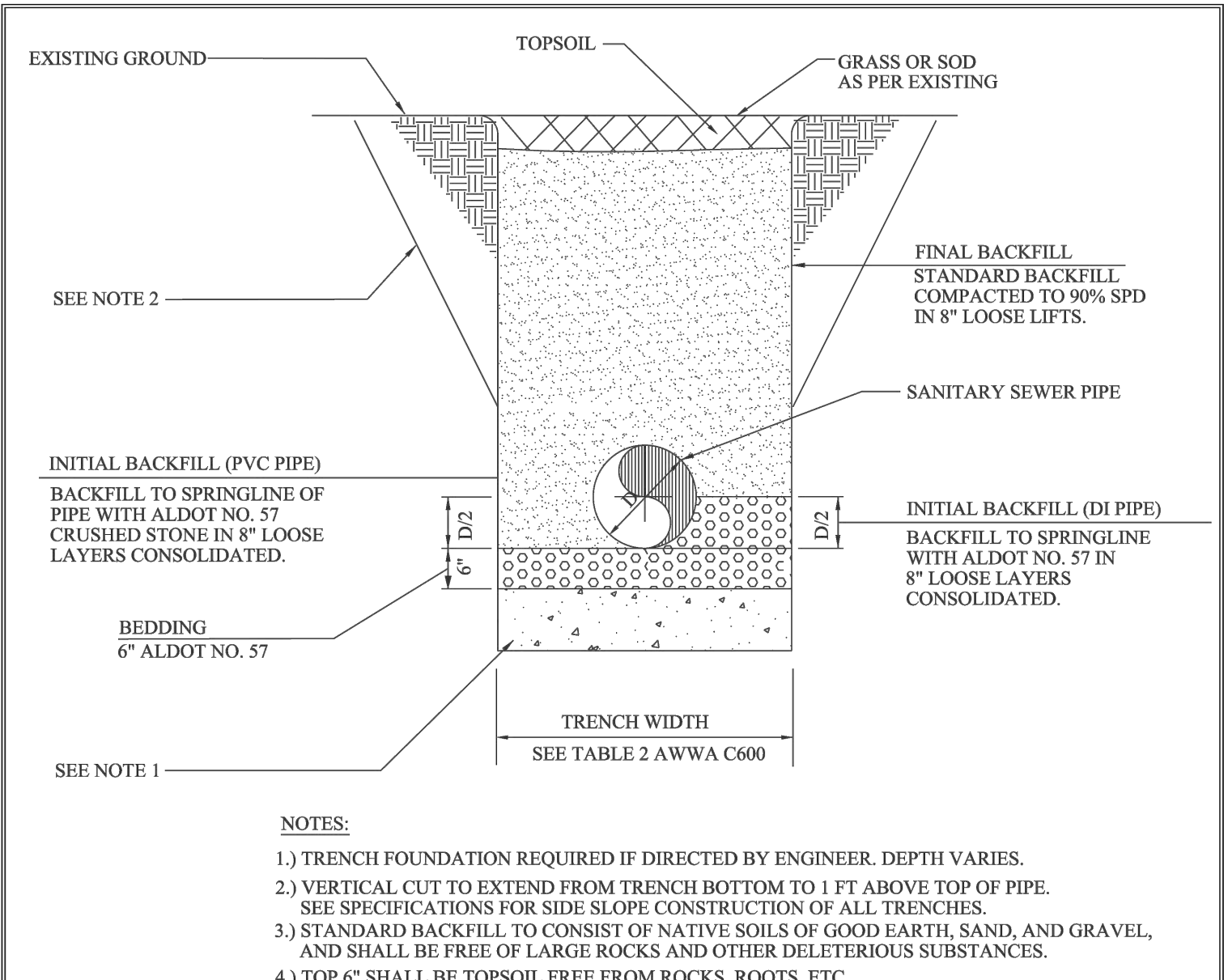
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TUSCALOOSA, AL

GMC Project # CBHM220045

07.07.2024

C-905
Sheet of

UTILITY DETAILS



NOTES:

- TRENCH FOUNDATION REQUIRED IF DIRECTED BY ENGINEER. DEPTH VARIES.
- VERTICAL CUT TO EXTEND FROM TRENCH BOTTOM TO 1 FT ABOVE TOP OF PIPE. SEE SPECIFICATIONS FOR SIDE SLOPE CONSTRUCTION OF ALL TRENCHES.
- STANDARD BACKFILL TO CONSIST OF NATIVE SOILS OF GOOD SAND, SAND, AND GRAVEL, AND SHALL BE FREE OF LARGE ROCKS AND OTHER DELETERIOUS SUBSTANCES.
- TOP 6" SHALL BE TOPSOIL, FREE FROM ROCKS, ROOTS, ETC.

AWWA C600 TABLE 2
TRENCH WIDTHS AT TOP OF PIPE

NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)
4	30
6	32
8	34
10	36
12	38
14	40
16	42
18	44

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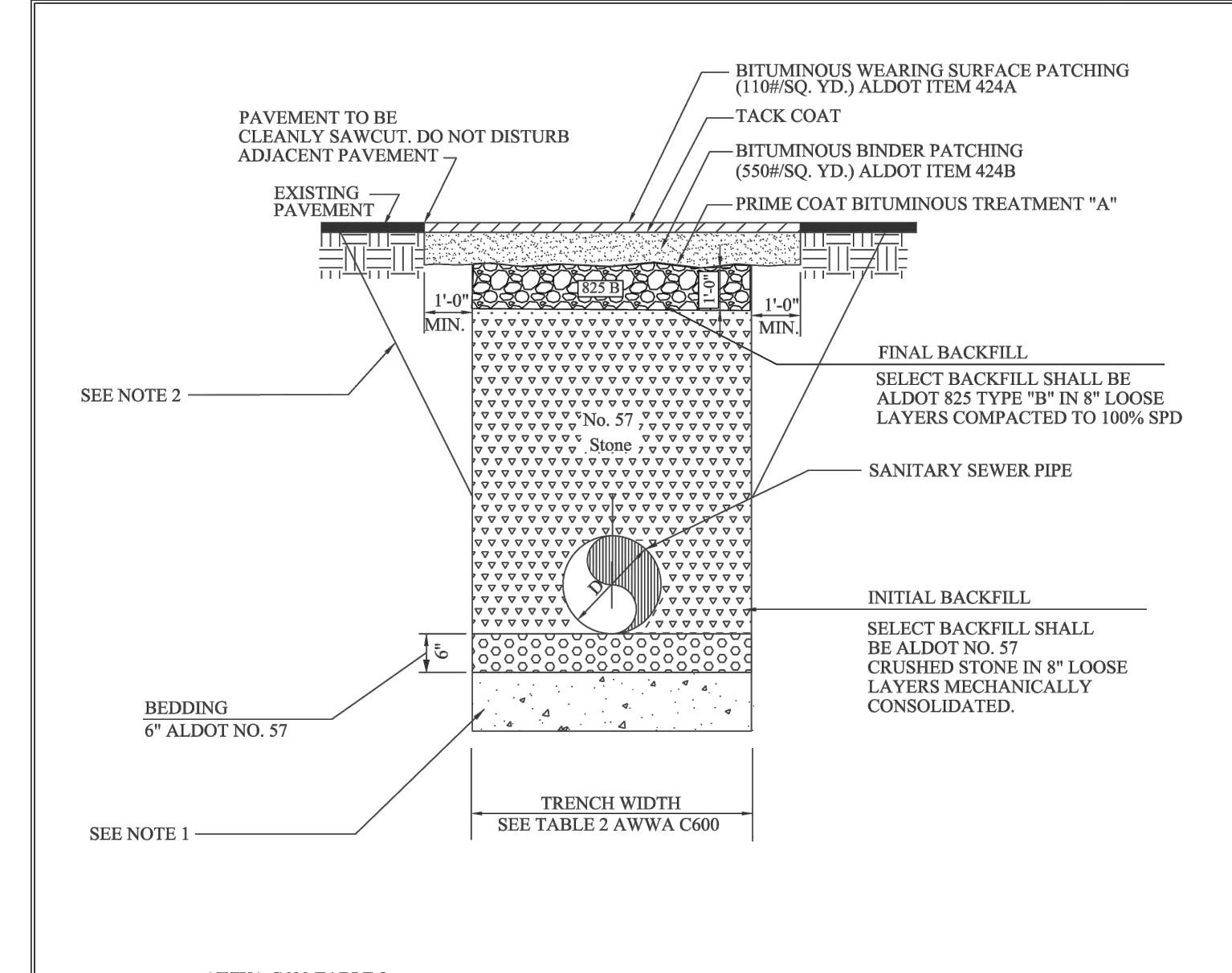
TYPICAL TRENCH DETAIL
GRAVITY SEWERS - IMPROVED AREAS

WASTEWATER ENGINEERING STANDARD DETAILS

REVISION	DATE	DESCRIPTION	BY

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CHECKED BY: JMD
SCALE: NOT TO SCALE
CITY OF TUSCALOOSA
SD-010



NOTES:

- TRENCH FOUNDATION REQUIRED IF DIRECTED BY OCE. DEPTH VARIES.
- VERTICAL CUT TO EXTEND FROM TRENCH BOTTOM TO 1 FT ABOVE TOP OF PIPE. SEE SPECIFICATIONS FOR SIDE SLOPE CONSTRUCTION OF ALL TRENCHES.
- IF UTILITY RELOCATION FALLS WITHIN AN AREA THAT IS TO BE REMOVED DURING ROADWAY CONSTRUCTION, REMOVE THE WEARING SURFACE PATCHING AND MATCH THE BINDER PATCHING WITH EXISTING PAVEMENT.

AWWA C600 TABLE 2
TRENCH WIDTHS AT TOP OF PIPE

NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)
4	30
6	32
8	34
10	36
12	38
14	40
16	42
18	44

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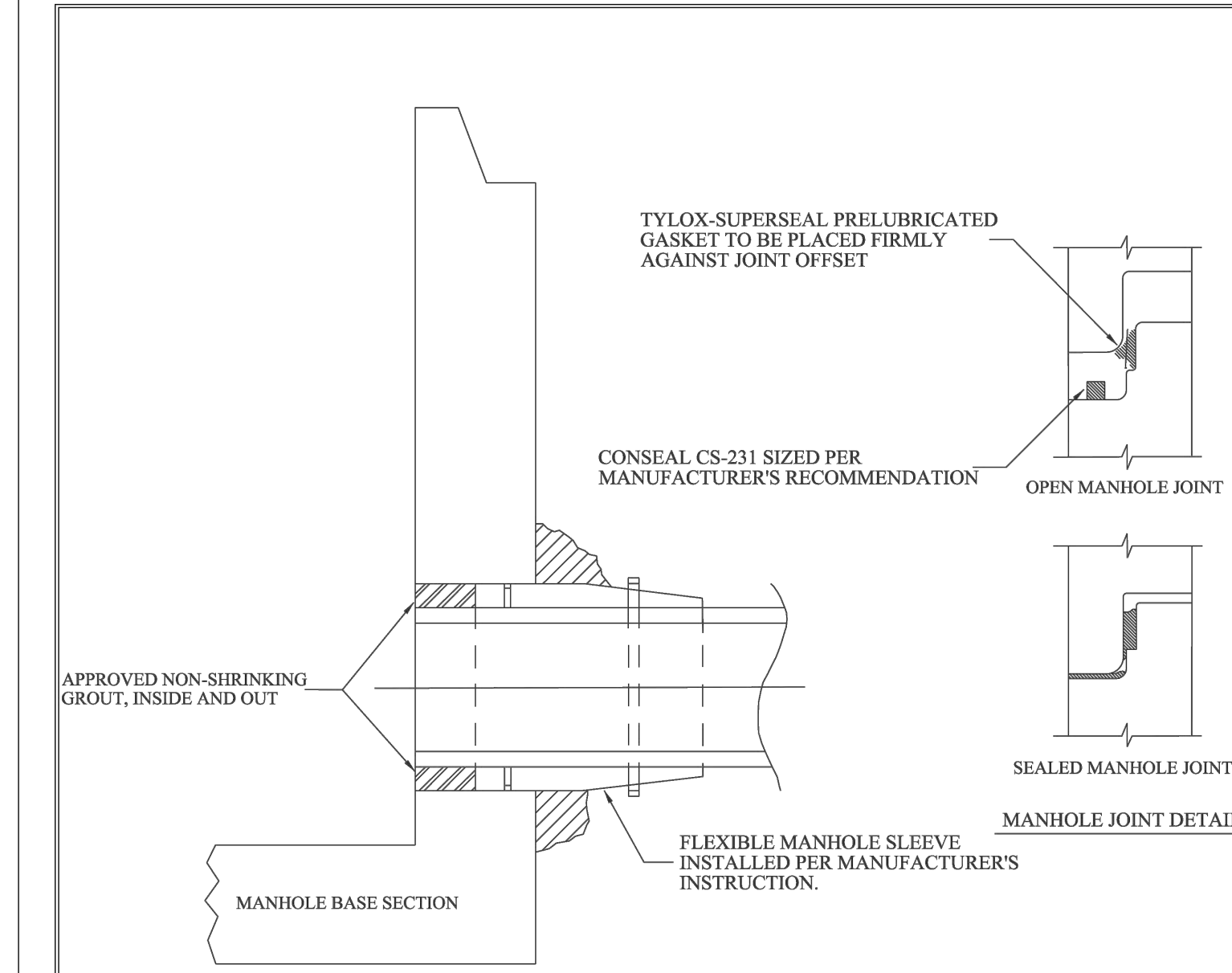
TYPICAL TRENCH DETAIL
GRAVITY SEWERS - ASPHALT PAVING

WASTEWATER ENGINEERING STANDARD DETAILS

REVISION	DATE	DESCRIPTION	BY

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DATE: 07/07/2024
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SD-015



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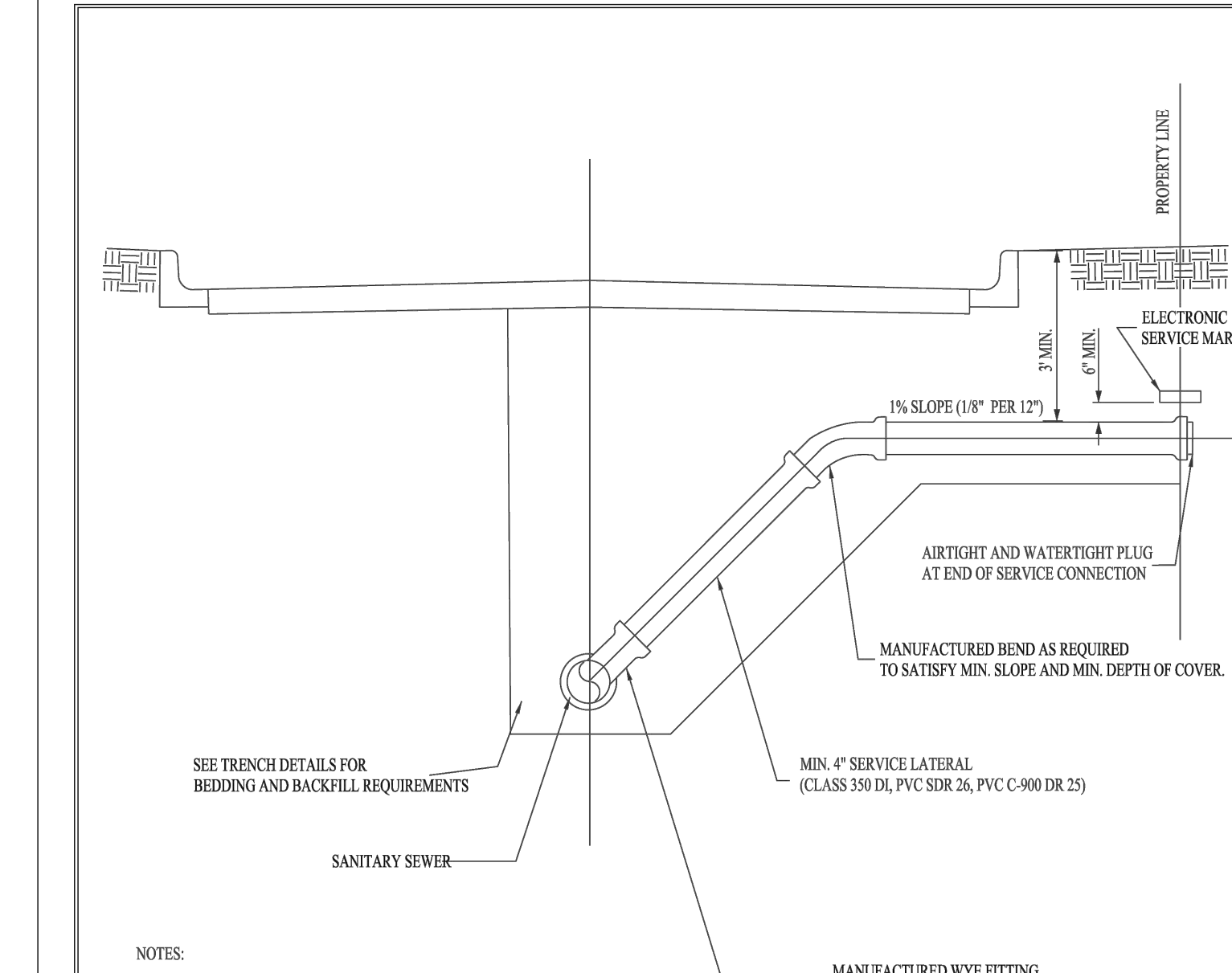
FLEXIBLE MANHOLE SLEEVE AND MANHOLE JOINT DETAILS

WASTEWATER ENGINEERING STANDARD DETAILS

REVISION	DATE	DESCRIPTION	BY

DESIGNED AND ALL INFORMATION SHOWN HEREIN IS THE PROPERTY OF THE CITY OF TUSCALOOSA AND MAY NOT BE REPRODUCED OR USED WITHOUT WRITTEN CONSENT OF THE CITY OF TUSCALOOSA.

DATE: 07/07/2024
DRAWN BY: JMD
CHECKED BY: JMD
SCALE: NOT TO SCALE
CITY OF TUSCALOOSA
SD-060



OCE CITY OF TUSCALOOSA

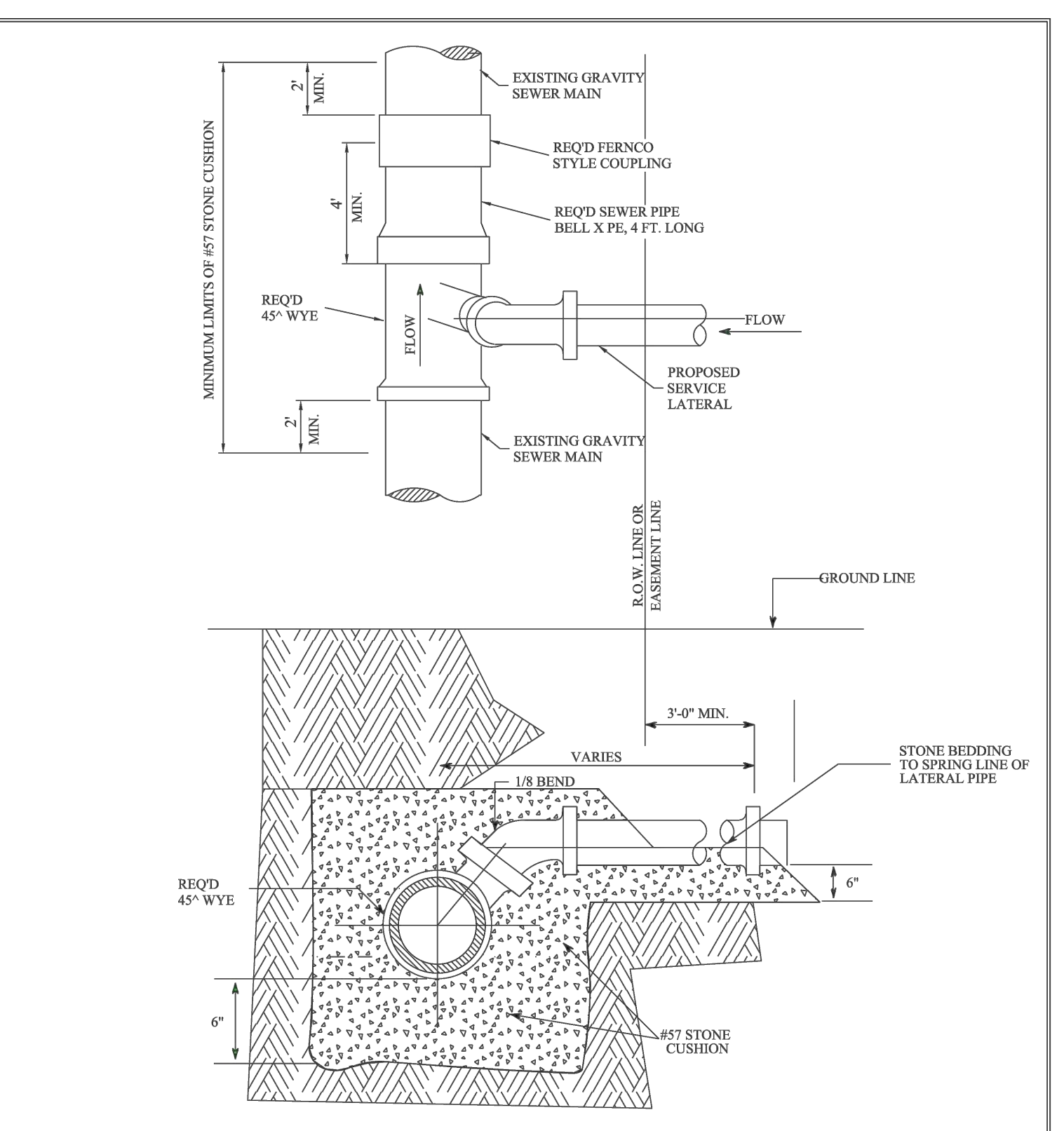
SERVICE LATERAL CONNECTION DEEP SEWER

WASTEWATER ENGINEERING STANDARD DETAILS

REVISION	DATE	DESCRIPTION	BY

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SD-095



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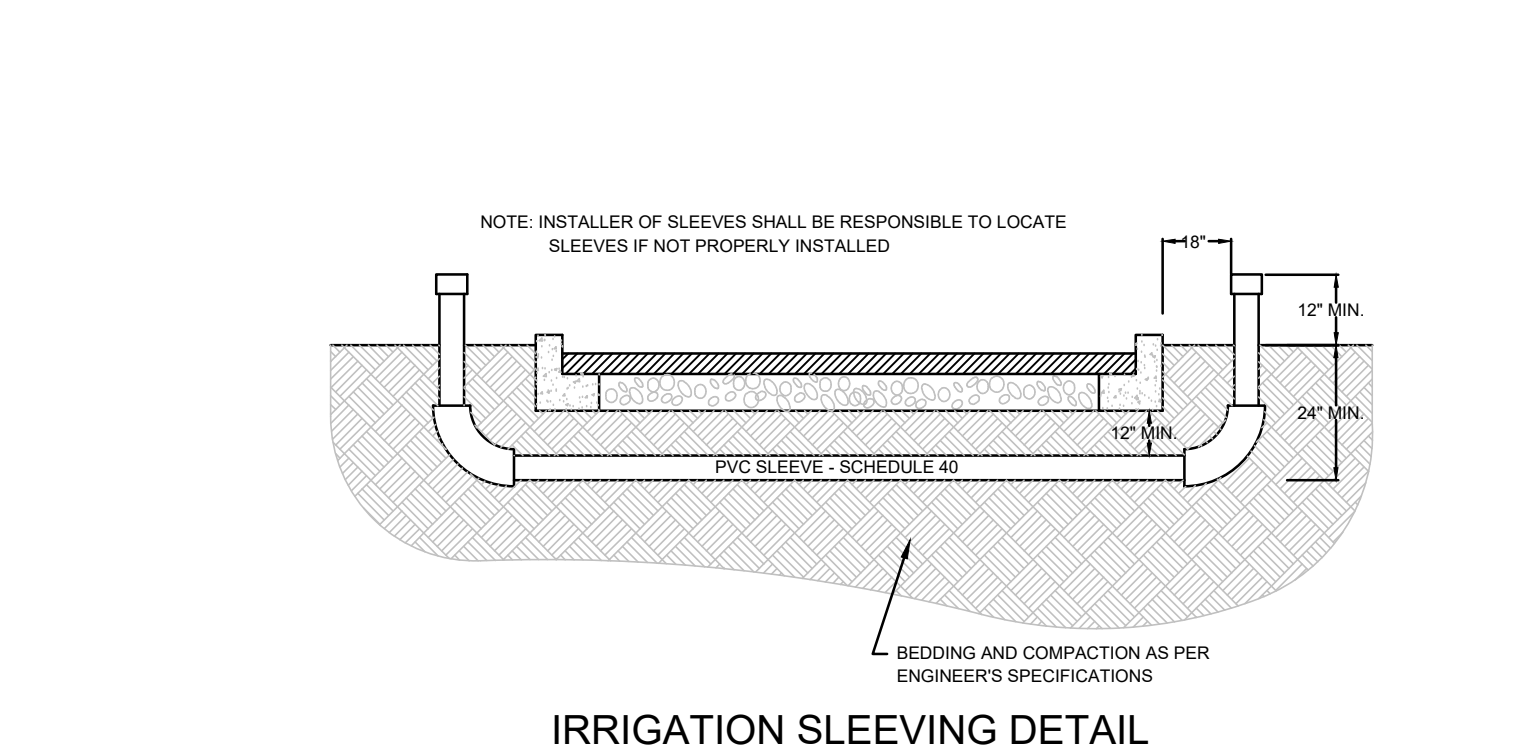
SERVICE LATERAL CONNECTION TO EXISTING GRAVITY SEWER

WASTEWATER ENGINEERING STANDARD DETAILS

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SD-096



OCE CITY OF TUSCALOOSA

IRRIGATION SLEEVE DETAIL

WASTEWATER ENGINEERING STANDARD DETAILS

REVISION	DATE	DESCRIPTION	BY

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CITY OF TUSCALOOSA
SD-015



OCE CITY OF TUSCALOOSA

TYPICAL GRAVITY SEWER CLEANOUT

WASTEWATER ENGINEERING STANDARD DETAILS

REVISION	DATE	DESCRIPTION	BY

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CITY OF TUSCALOOSA
SD-015

GMC

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TUSCALOOSA CO. DHR
TUSCALOOSA, AL

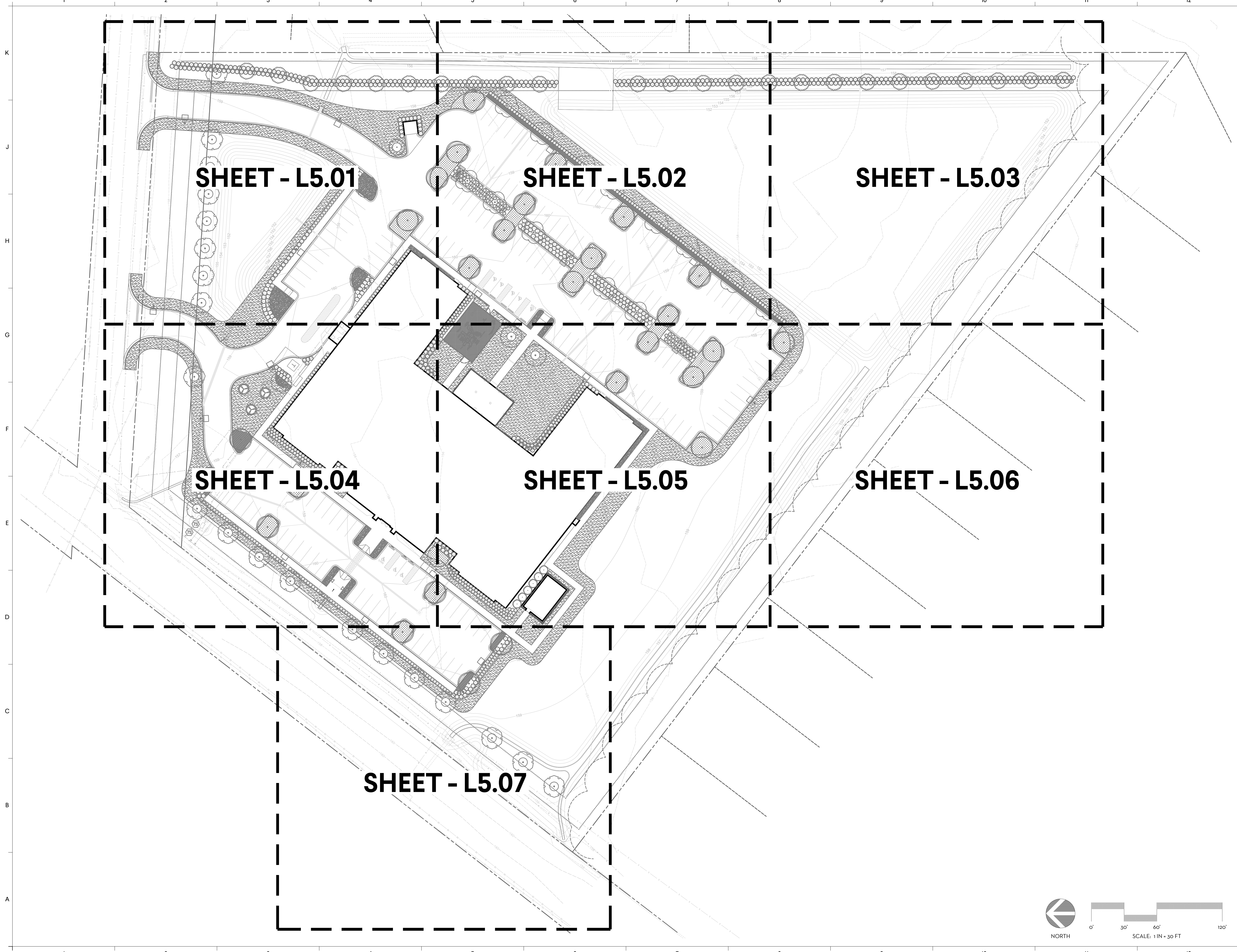
GMC Project # CBHM220045

C-906
Sheet ___ of ___

07/07/2024

ISSUE DATE: 07/07/2024
ISSUE BY: JMD
CHECKED BY: JMD

UTILITY DETAILS



SHEET - L5.01

SHEET - L5.02

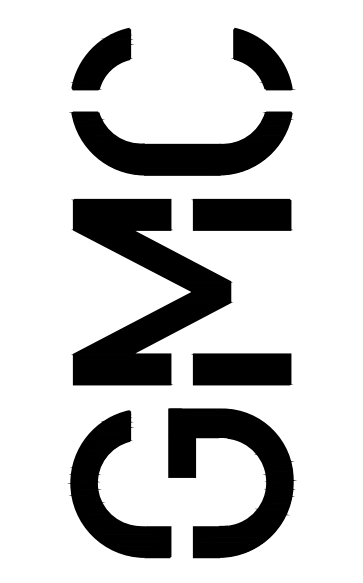
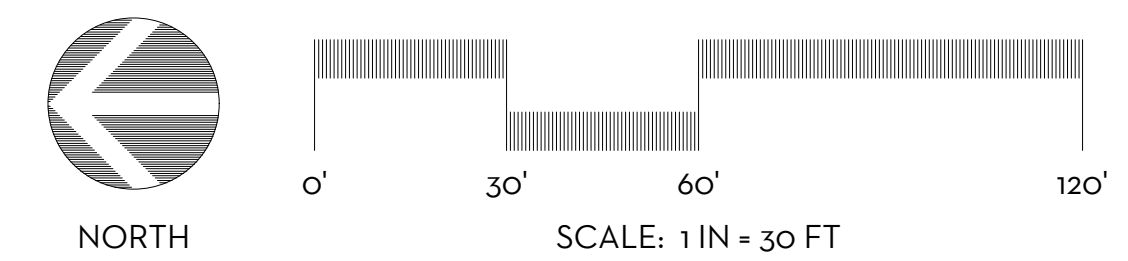
SHEET - L5.03

SHEET - L5.04

SHEET - L5.05

SHEET - L5.06

SHEET - L5.07

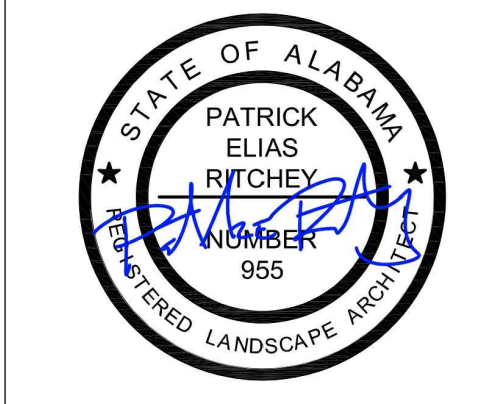


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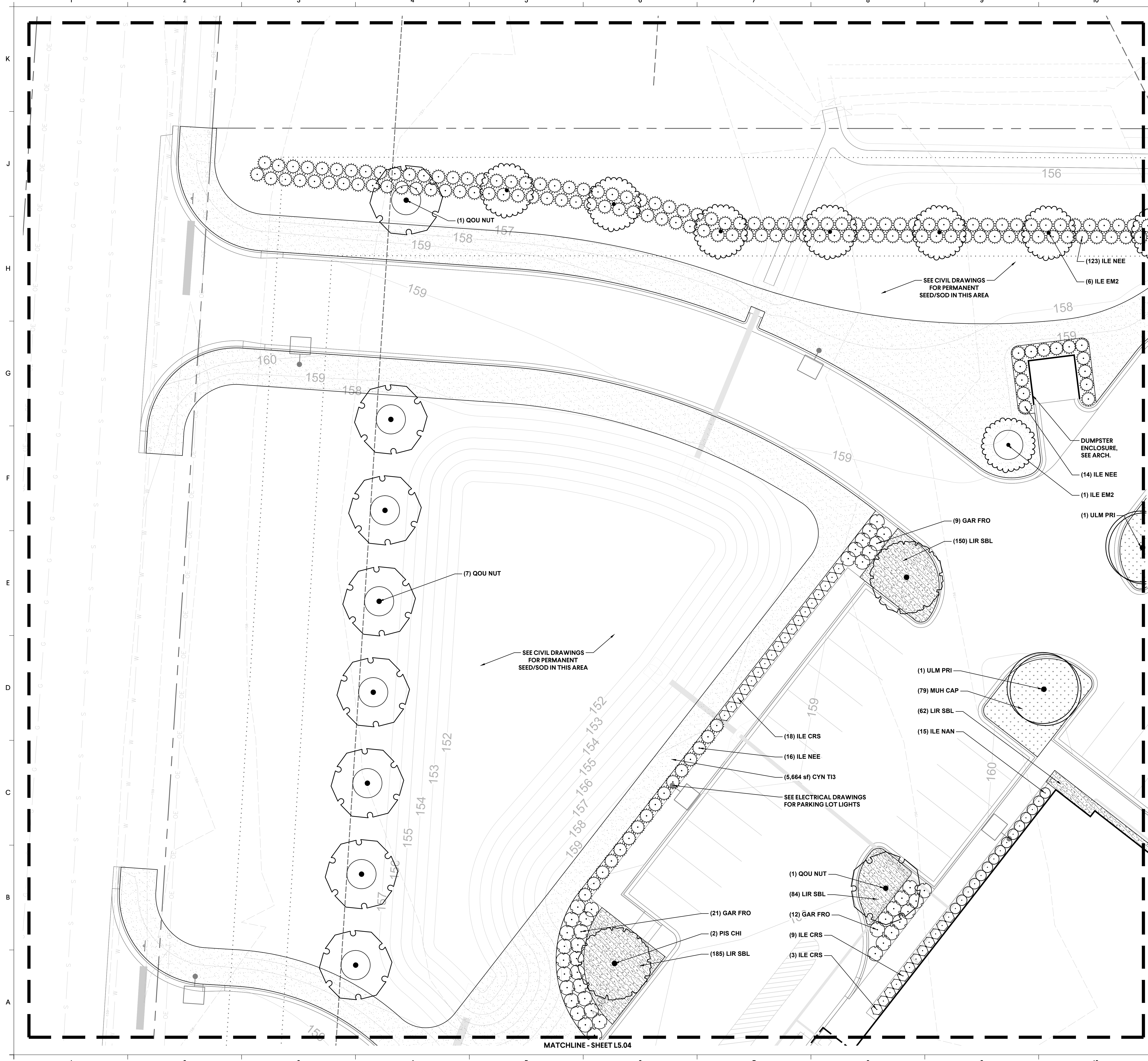
ISSUE DATE	ISSUE DESCRIPTION
BID SET 09/09/2024	

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CHECKED BY: _____

TUSCALOOSA DHR
TUSCALOOSA, AL
GMC Project #: LBHM220019



**OVERALL
LANDSCAPE PLAN**
L5.00



PLANT SCHEDULE

CODE	BOTANICAL NAME	COMMON NAME
TREES		
ILE LIB	ILEX X 'CONTY'	LIBERTY™ HOLLY
ILE EM2	ILEX X 'EMILY BRUNER'	EMILY BRUNER HOLLY
LAG WHI	LAGERSTROEMIA INDICA X FAURIEI 'NATCHEZ'	NATCHEZ CRAPE MYRTLE MULTI-TRUNK
LIR EMC	LIRIODENDRON TULIPIFERA 'JFS-OZ'	EMERALD CITY® TULIP POPLAR
PIS CHI	PISTACIA CHINENSIS	CHINESE PISTACHE
QOU NUT	QUERCUS NUTTALLII	NUTTALL OAK
ULM PRI	ULMUS AMERICANA 'PRINCETON'	PRINCETON AMERICAN ELM
SHRUBS		
GAR FRO	GARDENIA JASMINOIDES 'FROSTPROOF'	FROSTPROOF GARDENIA
ILE CRS	ILEX CORNUTA 'CARISSA'	CARISSA CHINESE HOLLY
ILE NEE	ILEX CORNUTA 'NEEDLEPOINT'	NEEDLEPOINT CHINESE HOLLY
ILE SHA	ILEX GLABRA 'SHAMROCK'	SHAMROCK INKBERRY HOLLY
ILE NAN	ILEX VOMITORIA 'NANA'	DWARF YAUPON HOLLY
ROS CRL	ROSA X 'CORAL DRIFT'	CORAL DRIFT ROSE
SHRUB AREAS		
MUH CAP	MUHLENBERGIA CAPILLARIS	WHITE AND PINK MUHLY GRASS
GROUND COVERS		
CYN TI3	CYNODON DACTYLON 'TIF 419'	TIF 419 BERMUDA GRASS
LIR SBL	LIRIOPE MUSCARI 'SUPER BLUE'	SUPER BLUE LILYTURF
MULCH	PINE STRAW MULCH	PINE STRAW MULCH

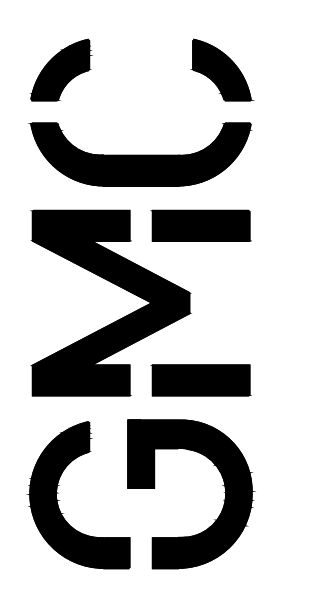
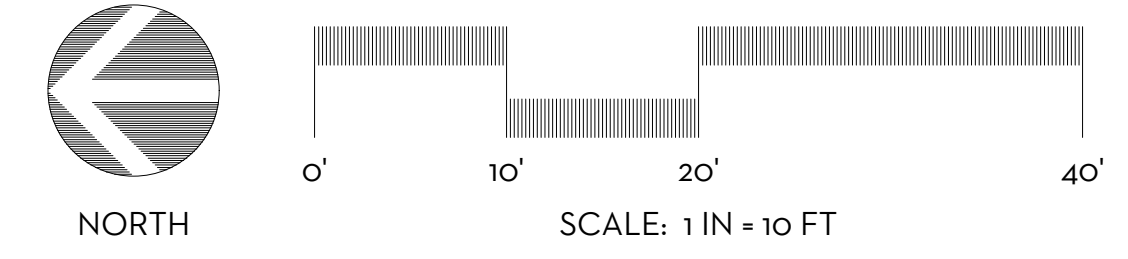
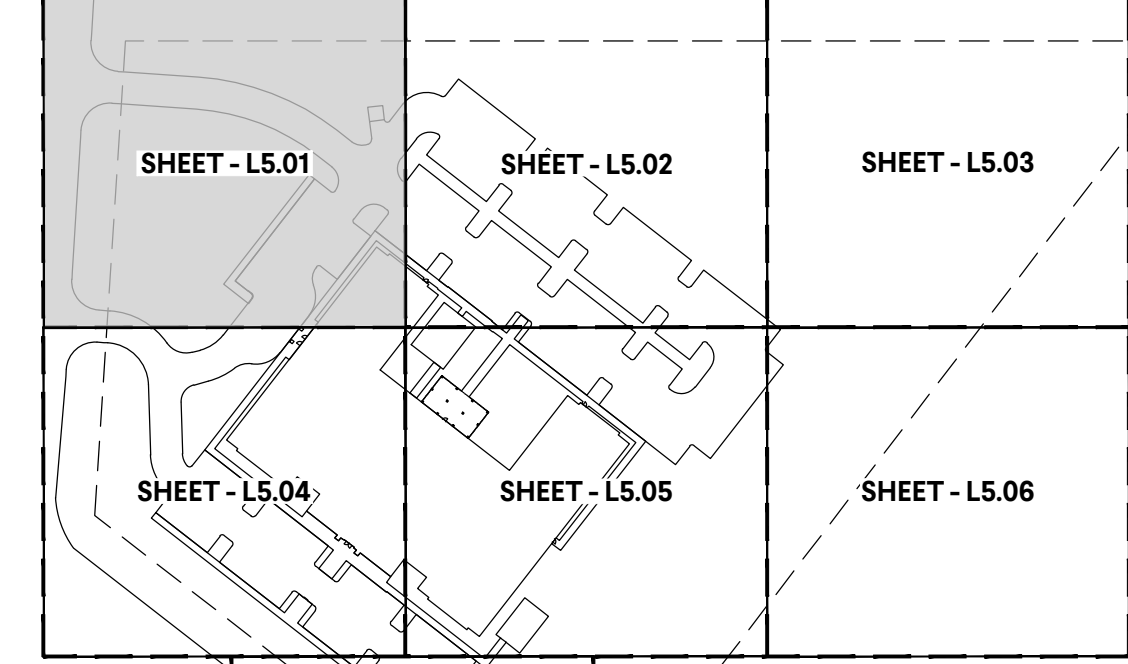
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SITE FURNISHINGS:

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- 6" LONG WELLSRING BENCHES BY LANDSCAPE FORMS OR APPROVED EQUAL. BOTH BENCHES ARE TO BE LOCATED ON THE BACK PATIO.
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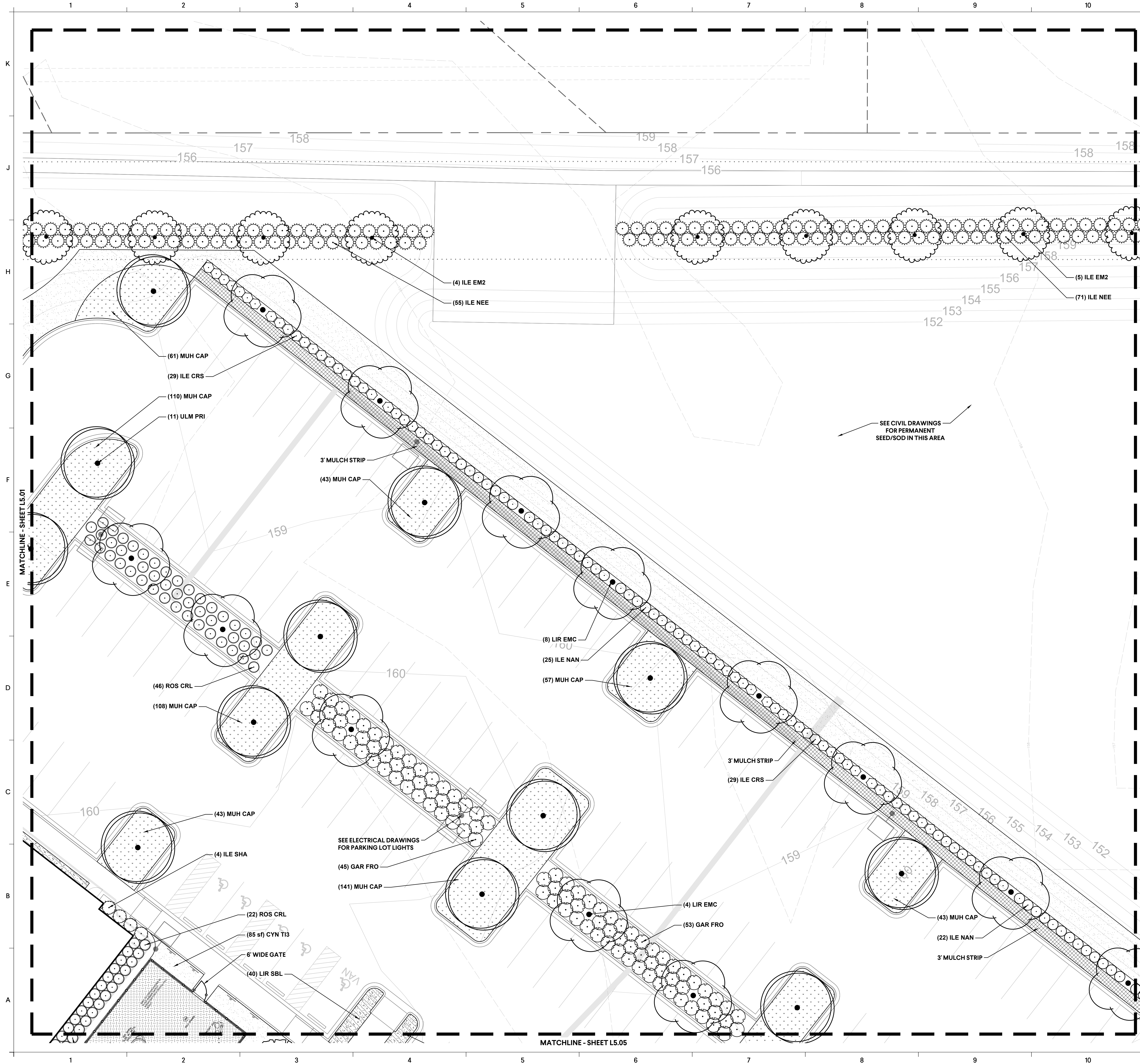
TUSCALOOSA DHR
TUSCALOOSA, AL

GMC Project #: LBHM220019



LANDSCAPE PLAN

L5.01



PLANT SCHEDULE

CODE	BOTANICAL NAME	COMMON NAME
TREES		
ILE LIB	ILEX X 'CONTY'	LIBERTY™ HOLLY
ILE EM2	ILEX X 'EMILY BRUNER'	EMILY BRUNER HOLLY
LAG WHI	LAGERSTROEMIA INDICA X FAURIEI 'NATCHEZ'	NATCHEZ CRAPE MYRTLE MULTI-TRUNK
LIR EMC	LIRIODENDRON TULIPIFERA 'JFS-OZ'	EMERALD CITY® TULIP POPLAR
PIS CHI	PISTACIA CHINENSIS	CHINESE PISTACHE
QOU NUT	QUERCUS NUTTALLII	NUTTALL OAK
ULM PRI	ULMUS AMERICANA 'PRINCETON'	PRINCETON AMERICAN ELM
SHRUBS		
GAR FRO	GARDENIA JASMINOIDES 'FROSTPROOF'	FROSTPROOF GARDENIA
ILE CRS	ILEX CORNUTA 'CARISSA'	CARISSA CHINESE HOLLY
ILE NEE	ILEX CORNUTA 'NEEDLEPOINT'	NEEDLEPOINT CHINESE HOLLY
ILE SHA	ILEX GLABRA 'SHAMROCK'	SHAMROCK INKBERRY HOLLY
ILE NAN	ILEX VOMITORIA 'NANA'	DWARF YAUPON HOLLY
ROS CRL	ROSA X 'CORAL DRIFT'	CORAL DRIFT ROSE
SHRUB AREAS		
MUH CAP	MUHLENBERGIA CAPILLARIS	WHITE AND PINK MUHLY GRASS
GROUND COVERS		
CYN TI3	CYNODON DACTYLON 'TIF 419'	TIF 419 BERMUDA GRASS
LIR SBL	LIRIOPE MUSCARI 'SUPER BLUE'	SUPER BLUE LILYTURF
MULCH	PINE STRAW MULCH	PINE STRAW MULCH

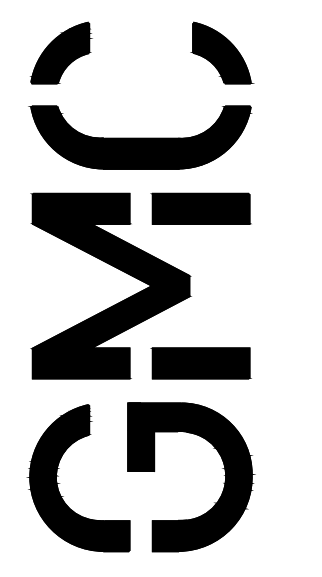
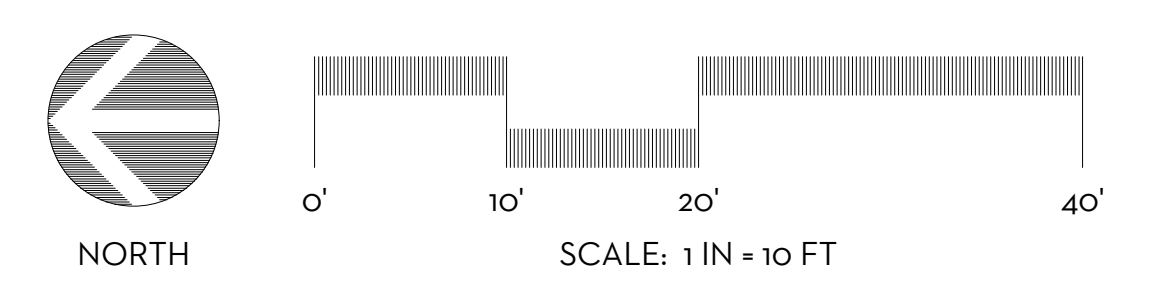
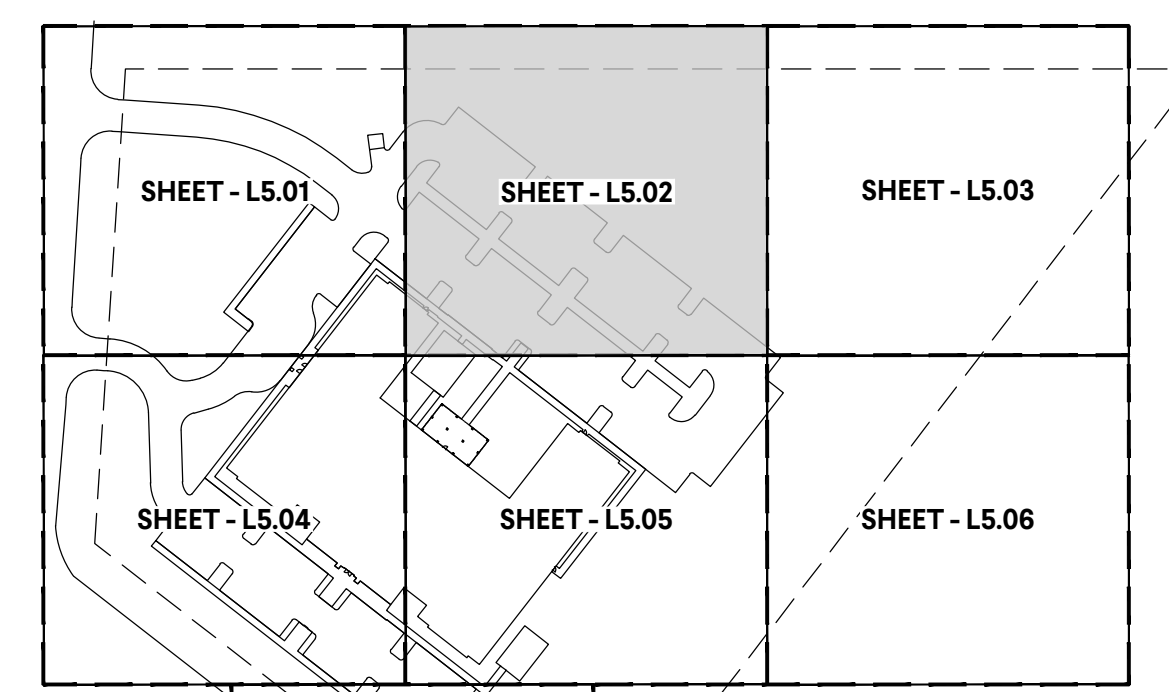
NOTES

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SITE FURNISHINGS:

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 - LARCHMONT PICNIC TABLES BY COUNTRY CASUAL OR APPROVED EQUAL. ALL FOUR TABLES ARE TO BE LOCATED ON THE BACK PATIO.
 - LONG WELLSRING BENCHES BY LANDSCAPE FORMS OR APPROVED EQUAL. BOTH BENCHES ARE TO BE LOCATED ON THE BACK PATIO.
- SEE 02870 SITE FURNISHING SPECIFICATION FOR DETAILS. ALL SITE FURNISHING LOCATIONS TO BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

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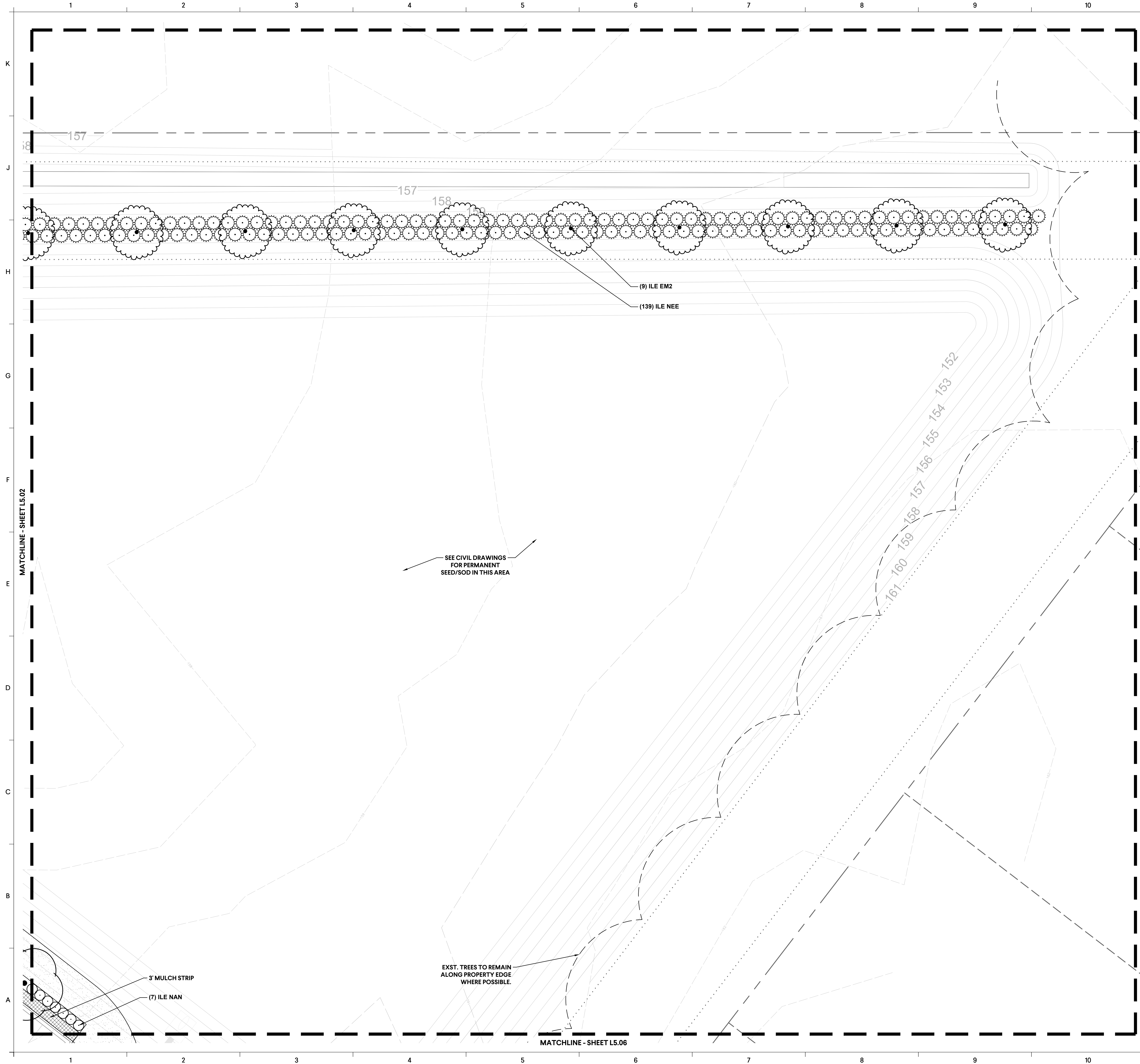
TUSCALOOSA DHR
 TUSCALOOSA, AL



LANDSCAPE PLAN

GMC Project #: LBHM220019

L5.02



PLANT SCHEDULE

CODE	BOTANICAL NAME	COMMON NAME
TREES		
ILE LIB	ILEX X 'CONTY'	LIBERTY™ HOLLY
ILE EM2	ILEX X 'EMILY BRUNER'	EMILY BRUNER HOLLY
LAG WHI	LAGERSTROEMIA INDICA X FAURIEI 'NATCHEZ'	NATCHEZ CRAPE MYRTLE MULTI-TRUNK
LIR EMC	LIRIODENDRON TULIPIFERA 'JFS-OZ'	EMERALD CITY® TULIP POPLAR
PIS CHI	PISTACIA CHINENSIS	CHINESE PISTACHE
QOU NUT	QUERCUS NUTTALLII	NUTTALL OAK
ULM PRI	ULMUS AMERICANA 'PRINCETON'	PRINCETON AMERICAN ELM
SHRUBS		
GAR FRO	GARDENIA JASMINOIDES 'FROSTPROOF'	FROSTPROOF GARDENIA
ILE CRS	ILEX CORNUTA 'CARISSA'	CARISSA CHINESE HOLLY
ILE NEE	ILEX CORNUTA 'NEEDLEPOINT'	NEEDLEPOINT CHINESE HOLLY
ILE SHA	ILEX GLABRA 'SHAMROCK'	SHAMROCK INKBERRY HOLLY
ILE NAN	ILEX VOMITORIA 'NANA'	DWARF YAUPON HOLLY
ROS CRL	ROSA X 'CORAL DRIFT'	CORAL DRIFT ROSE
SHRUB AREAS		
MUH CAP	MUHLENBERGIA CAPILLARIS	WHITE AND PINK MUHLY GRASS
GROUND COVERS		
CYN TI3	CYNODON DACTYLON 'TIF 419'	TIF 419 BERMUDA GRASS
LIR SBL	LIRIOPE MUSCARI 'SUPER BLUE'	SUPER BLUE LILYTURF
MULCH	PINE STRAW MULCH	PINE STRAW MULCH

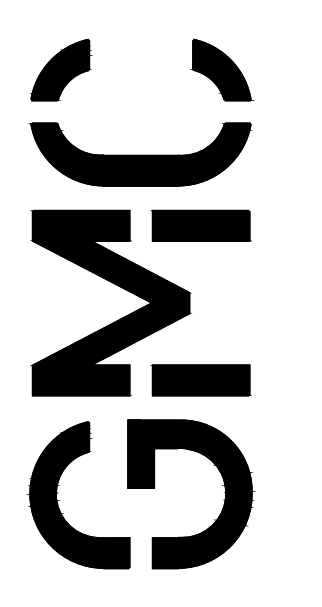
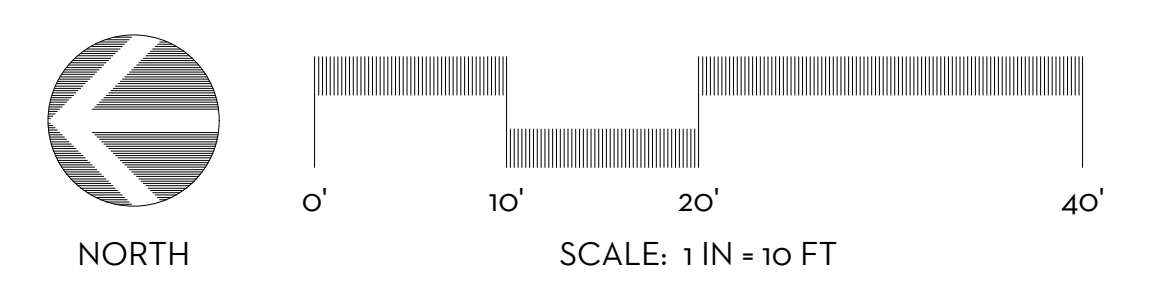
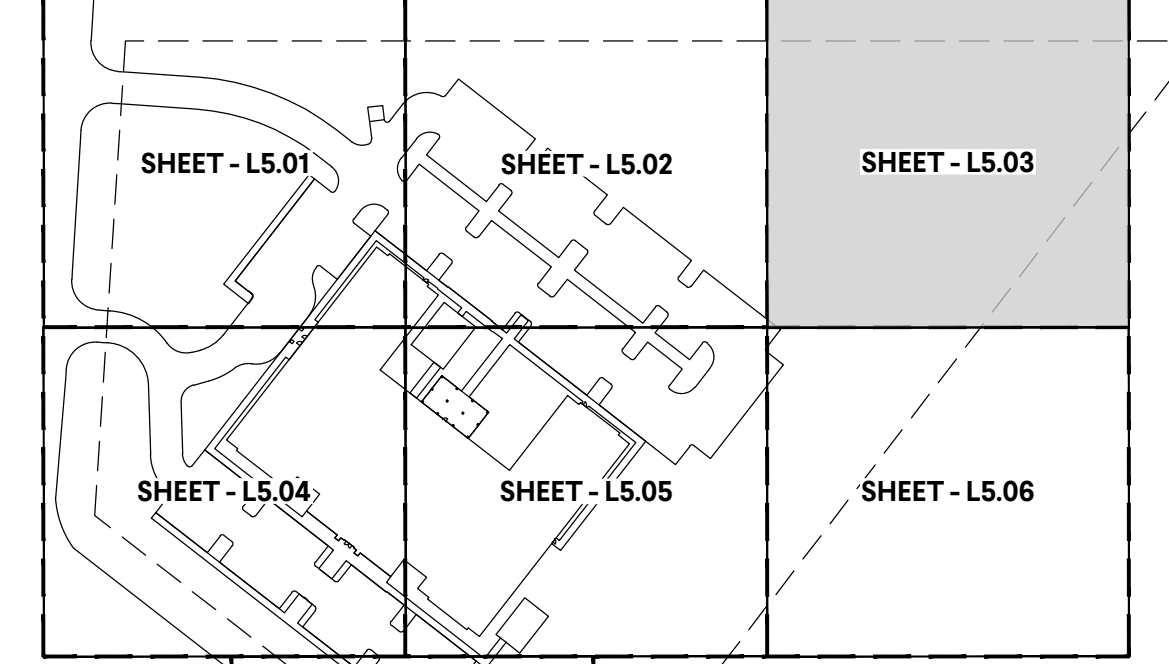
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GMC Project #: LBHM220019



LANDSCAPE PLAN

L5.03

MATCHLINE - SHEET L5.01

(23) ILE NEE

(4) ILE NEE

(13) ILE CRS

(9) ILE NEE

(1) QOU NUT

(40) LIR SBL

(16) ILE NAN

(15) ROS CRL

(27) ILE CRS

(10) ROS CRL

(11) ILE NEE

(1) PIS CHI

(35) MUH CAP

(500 sf) CYN TI3

(43) MUH CAP

(43) MUH CAP

(2) ULM PRI

(27) ILE NAN

(2) ILE NEE

(51) LIR SBL

(49) LIR SBL

(50) LIR SBL

12
1.8.00

30' FLAG POLE

(49) LIR SBL

(13) ILE CRS

SEE ELECTRICAL DRAWINGS FOR PARKING LOT LIGHTS

(1) ULM PRI

(43) MUH CAP

(1) QOU NUT

(3) LAG WHI

(1,922 sf) CYN TI3

(1) ULM PRI

(113) LIR VAR

(18,736 sf) CYN TI3

(14) ILE SHA

(1) ULM PRI

(54) LIR VAR

(21) ILE CRS

(5) QOU NUT

SEE CIVIL DRAWINGS FOR PERMANENT SEED/SOD IN THIS AREA

PLANT SCHEDULE

CODE	BOTANICAL NAME	COMMON NAME
TREES		
ILE LIB	ILEX X 'CONTY'	LIBERTY™ HOLLY
ILE EM2	ILEX X 'EMILY BRUNER'	EMILY BRUNER HOLLY
LAG WHI	LAGERSTROEMIA INDICA X FAURIEI 'NATCHEZ'	NATCHEZ CRAPE MYRTLE MULTI-TRUNK
LIR EMC	LIRIODENDRON TULIPIFERA 'JFS-OZ'	EMERALD CITY® TULIP POPLAR
PIS CHI	PISTACIA CHINENSIS	CHINESE PISTACHE
QOU NUT	QUERCUS NUTTALLII	NUTTALL OAK
ULM PRI	ULMUS AMERICANA 'PRINCETON'	PRINCETON AMERICAN ELM
SHRUBS		
GAR FRO	GARDENIA JASMINOIDES 'FROSTPROOF'	FROSTPROOF GARDENIA
ILE CRS	ILEX CORNUTA 'CARISSA'	CARISSA CHINESE HOLLY
ILE NEE	ILEX CORNUTA 'NEEDLEPOINT'	NEEDLEPOINT CHINESE HOLLY
ILE SHA	ILEX GLABRA 'SHAMROCK'	SHAMROCK INKBERRY HOLLY
ILE NAN	ILEX VOMITORIA 'NANA'	DWARF YAUPON HOLLY
ROS CRL	ROSA X 'CORAL DRIFT'	CORAL DRIFT ROSE
SHRUB AREAS		
MUH CAP	MUHLENBERGIA CAPILLARIS	WHITE AND PINK MUHLY GRASS
GROUND COVERS		
CYN TI3	CYNODON DACTYLON 'TIF 419'	TIF 419 BERMUDA GRASS
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MULCH	PINE STRAW MULCH	PINE STRAW MULCH

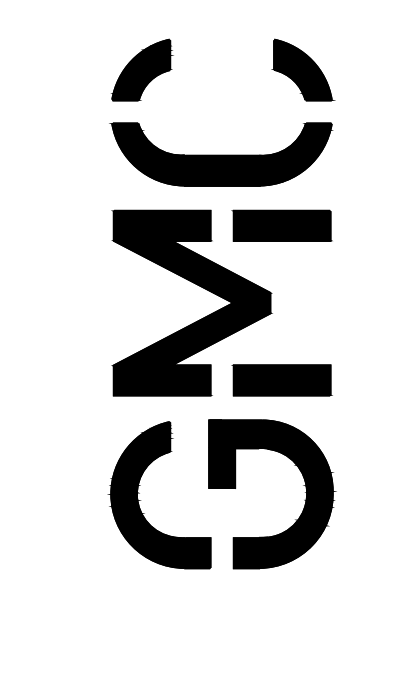
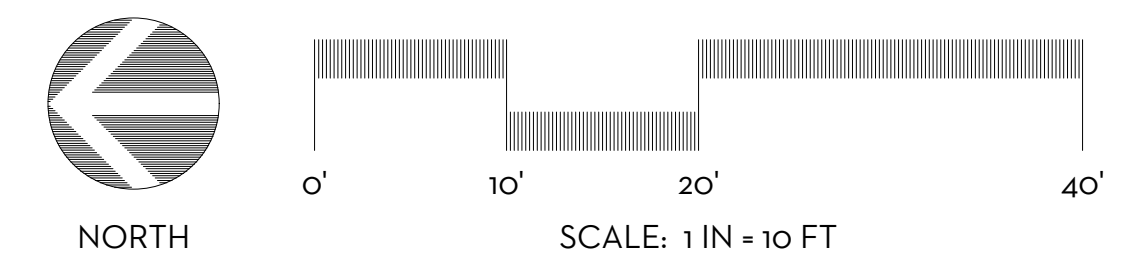
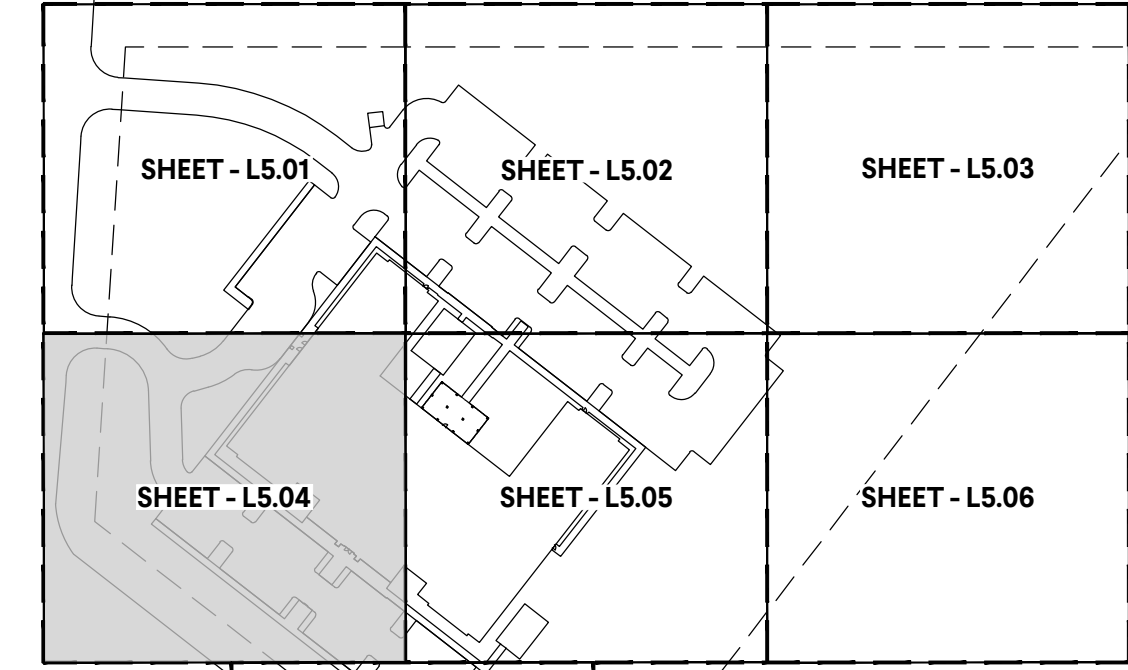
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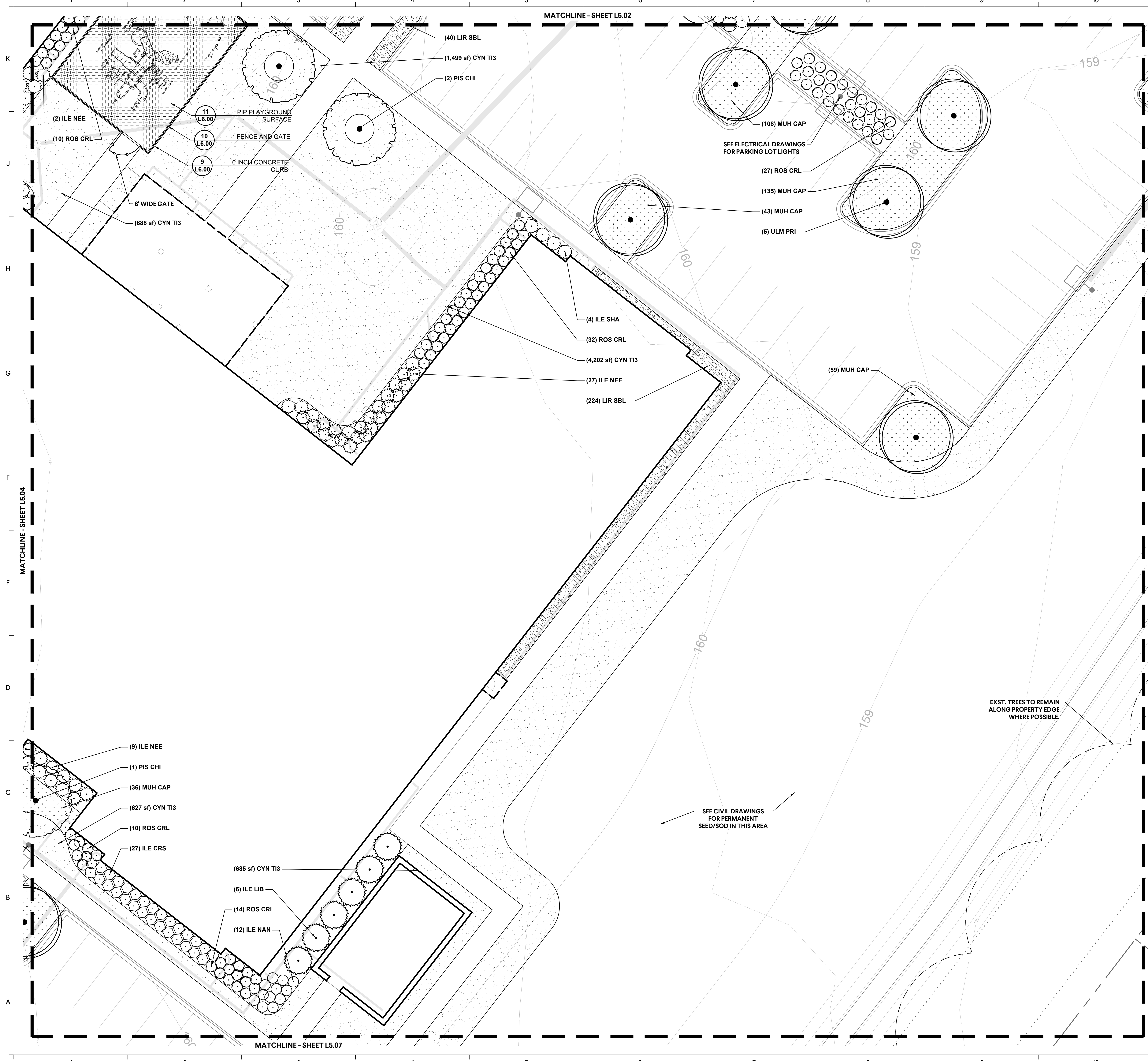
TUSCALOOSA DHR
TUSCALOOSA, AL

GMC Project #: LBHM220019

LANDSCAPE PLAN

L5.04





PLANT SCHEDULE

CODE	BOTANICAL NAME	COMMON NAME
TREES		
ILE LIB	ILEX X 'CONY'	LIBERTY™ HOLLY
ILE EM2	ILEX X 'EMILY BRUNER'	EMILY BRUNER HOLLY
LAG WHI	LAGERSTROEMIA INDICA X FAURIEI 'NATCHEZ'	NATCHEZ CRAPE MYRTLE MULTI-TRUNK
LIR EMC	LIRIODENDRON TULIPIFERA 'JFS-OZ'	EMERALD CITY® TULIP POPLAR
PIS CHI	PISTACIA CHINENSIS	CHINESE PISTACHE
QOU NUT	QUERCUS NUTTALLII	NUTTALL OAK
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SHRUBS		
GAR FRO	GARDENIA JASMINOIDES 'FROSTPROOF'	FROSTPROOF GARDENIA
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ROS CRL	ROSA X 'CORAL DRIFT'	CORAL DRIFT ROSE
SHRUB AREAS		
MUH CAP	MUHLENBERGIA CAPILLARIS	WHITE AND PINK MUHLY GRASS
GROUND COVERS		
CYN TI3	CYNODON DACTYLON 'TIF 419'	TIF 419 BERMUDA GRASS
LIR SBL	LIRIOPE MUSCARI 'SUPER BLUE'	SUPER BLUE LILYTURF
MULCH	PINE STRAW MULCH	PINE STRAW MULCH

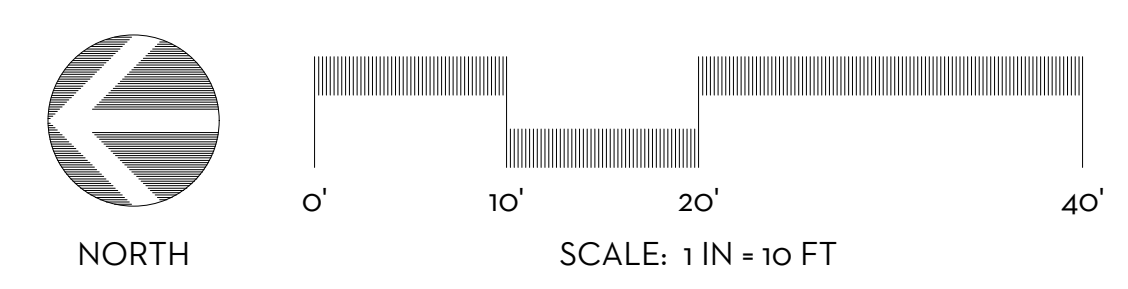
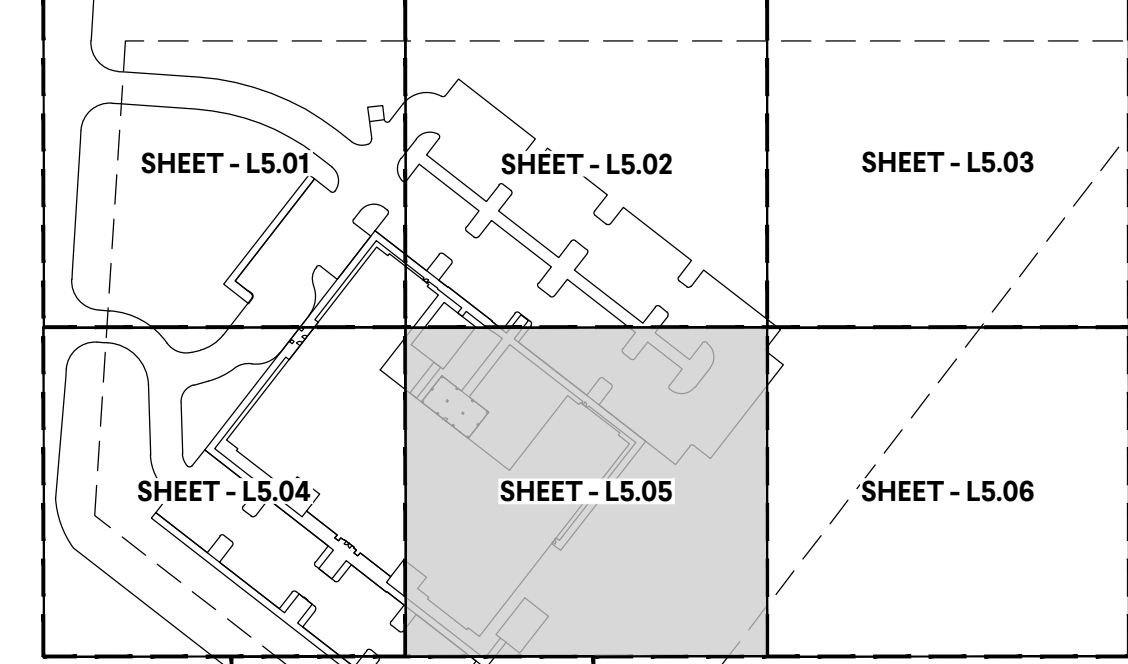
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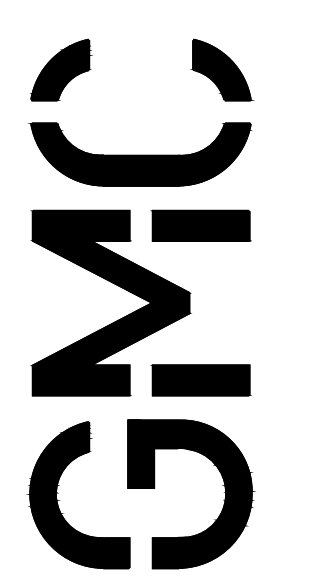
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SITE FURNISHINGS:

- PETOSKEY TRASH RECEPTACLES BY LANDSCAPE FORMS OR APPROVED EQUAL. 1 TO BE PLACED AT FRONT DOOR, 1 AT SIDE DOOR AND 1 ON THE BACK PATIO.
 - LARCHMONT PICNIC TABLES BY COUNTRY CASUAL OR APPROVED EQUAL. ALL FOUR TABLES ARE TO BE LOCATED ON THE BACK PATIO.
 - 6' LONG WELLSRING BENCHES BY LANDSCAPE FORMS OR APPROVED EQUAL. BOTH BENCHES ARE TO BE LOCATED ON THE BACK PATIO.
- SEE 02870 SITE FURNISHING SPECIFICATION FOR DETAILS. ALL SITE FURNISHING LOCATIONS TO BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

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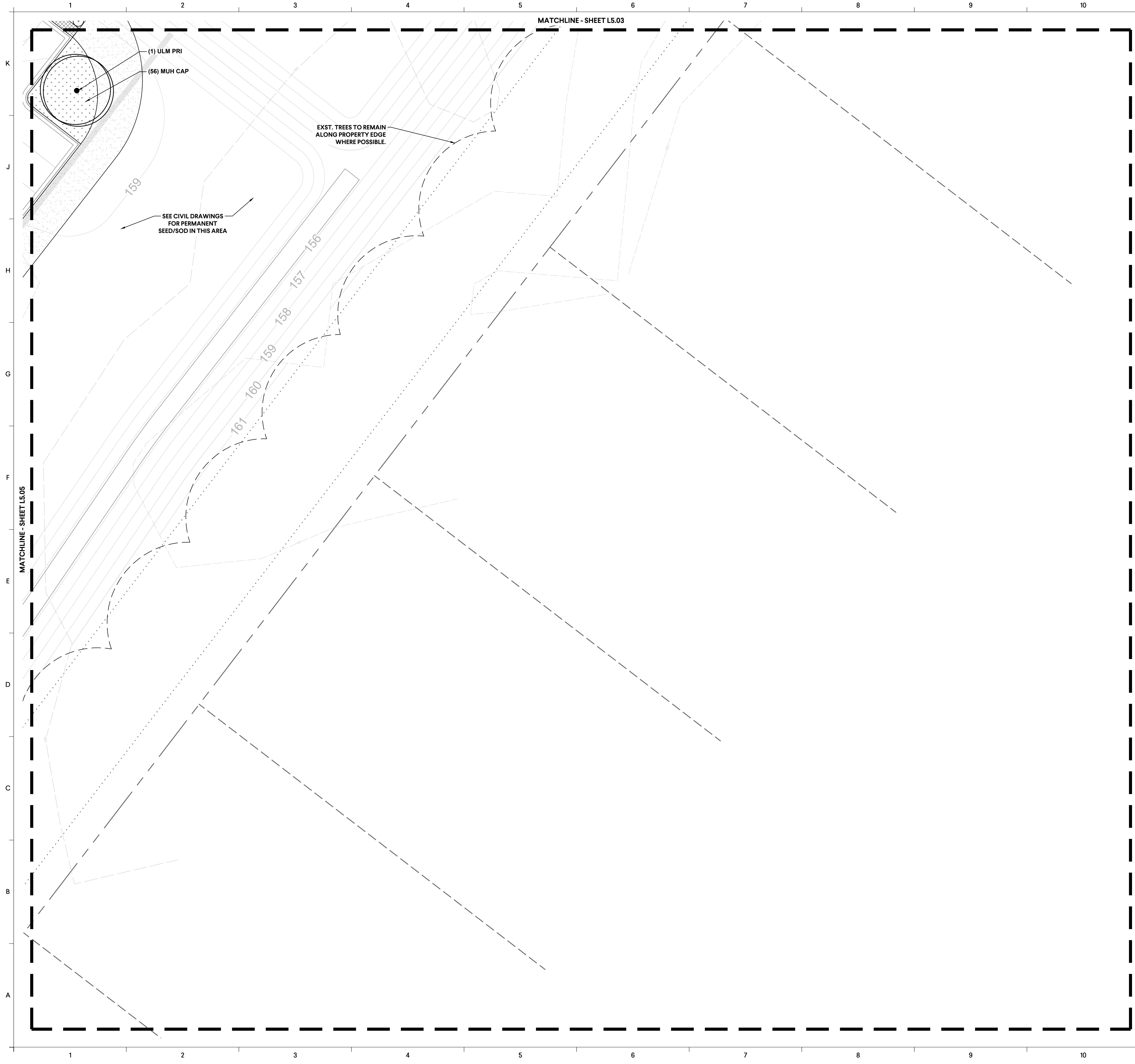
TUSCALOOSA DHR
TUSCALOOSA, AL

GMC Project #: LBHM220019



LANDSCAPE PLAN

L5.05



PLANT SCHEDULE

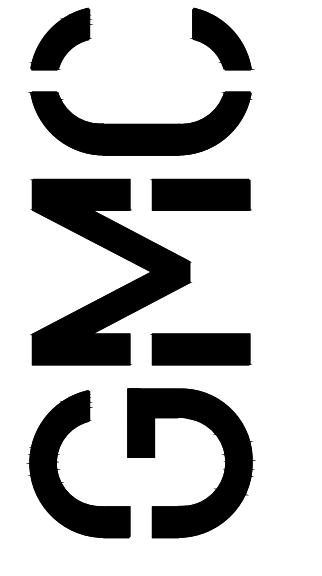
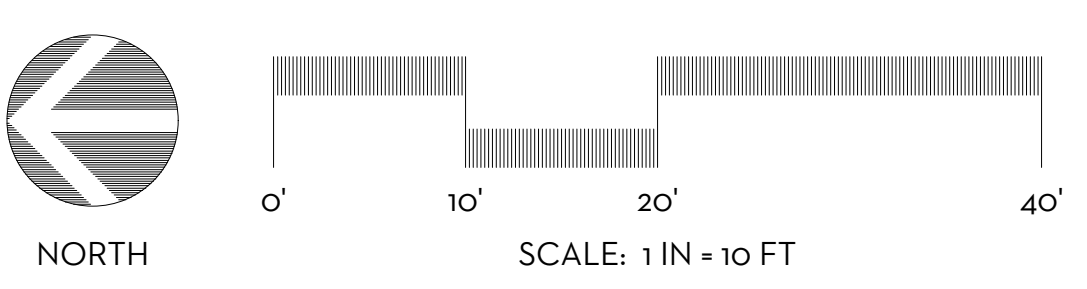
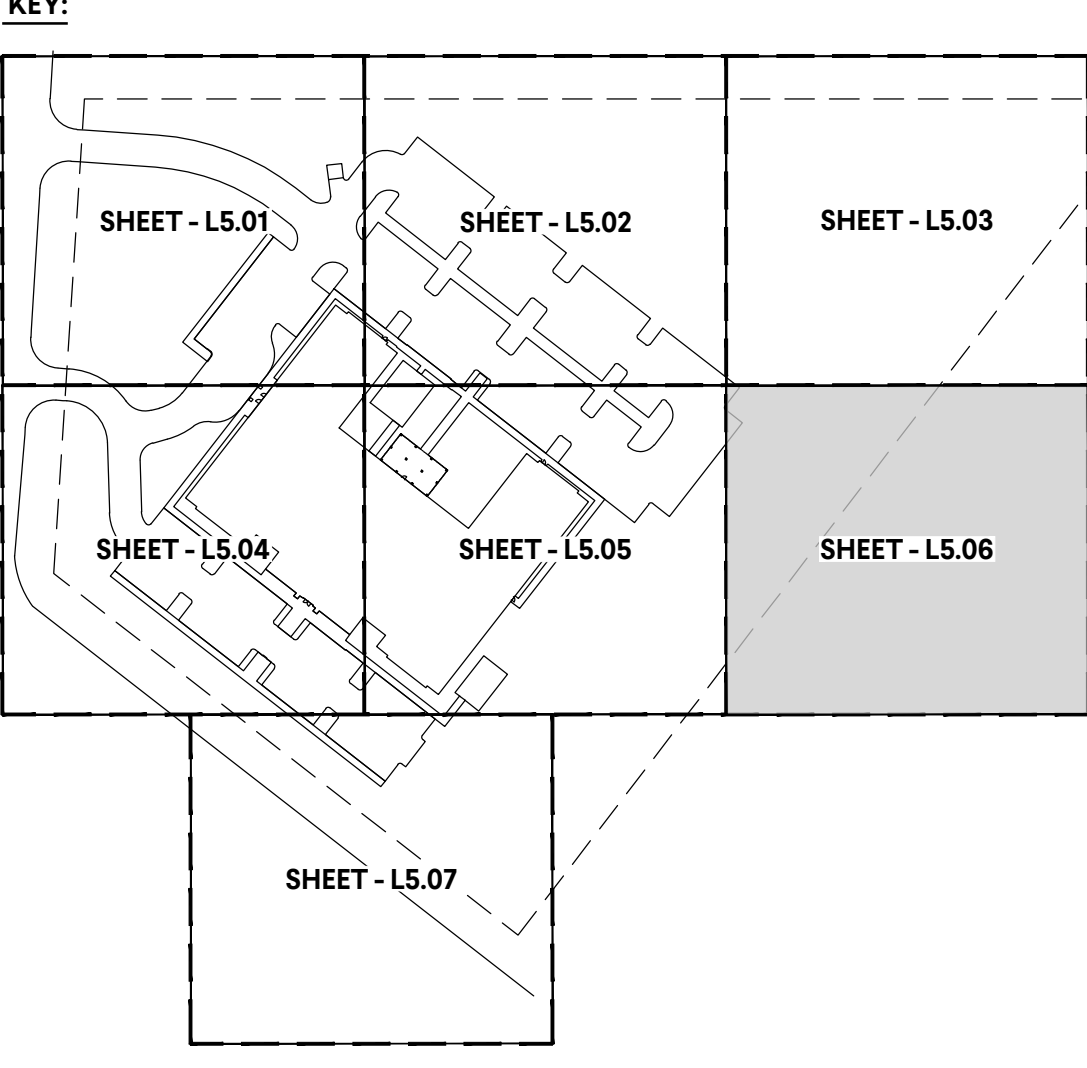
CODE	BOTANICAL NAME	COMMON NAME
TREES		
ILE LIB	ILEX X 'CONTY'	LIBERTY™ HOLLY
ILE EM2	ILEX X 'EMILY BRUNER'	EMILY BRUNER HOLLY
LAG WHI	LAGERSTROEMIA INDICA X FAURIEI 'NATCHEZ'	NATCHEZ CRAPE MYRTLE MULTI-TRUNK
LIR EMC	LIRIODENDRON TULPIFERA 'JFS-OZ'	EMERALD CITY® TULIP POPLAR
PIS CHI	PISTACIA CHINENSIS	CHINESE PISTACHE
QOU NUT	QUERCUS NUTTALLII	NUTTALL OAK
ULM PRI	ULMUS AMERICANA 'PRINCETON'	PRINCETON AMERICAN ELM
SHRUBS		
GAR FRO	GARDENIA JASMINOIDES 'FROSTPROOF'	FROSTPROOF GARDENIA
ILE CRS	ILEX CORNUTA 'CARISSA'	CARISSA CHINESE HOLLY
ILE NEE	ILEX CORNUTA 'NEEDLEPOINT'	NEEDLEPOINT CHINESE HOLLY
ILE SHA	ILEX GLABRA 'SHAMROCK'	SHAMROCK INKBERRY HOLLY
ILE NAN	ILEX VOMITORIA 'NANA'	DWARF YAUPON HOLLY
ROS CRL	ROSA X 'CORAL DRIFT'	CORAL DRIFT ROSE
SHRUB AREAS		
MUH CAP	MUHLENBERGIA CAPILLARIS	WHITE AND PINK MUHLY GRASS
GROUND COVERS		
CYN TI3	CYNODON DACTYLON 'TIF 419'	TIF 419 BERMUDA GRASS
LIR SBL	LIRIOPE MUSCARI 'SUPER BLUE'	SUPER BLUE LILYTURF
MULCH	PINE STRAW MULCH	PINE STRAW MULCH

NOTES

- 1. CONTRACTOR SHALL HAND WATER ALL PLANT MATERIAL AND SOD DURING CONSTRUCTION UNTIL SUBSTANTIAL COMPLETION HAS BEEN ACHIEVED.
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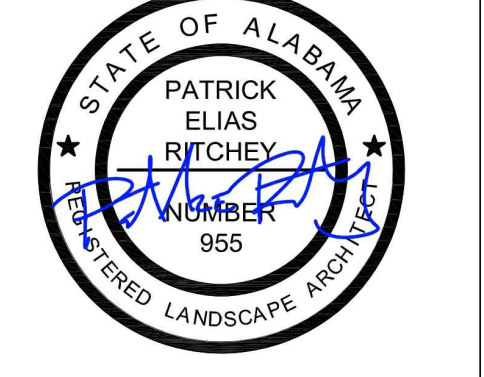


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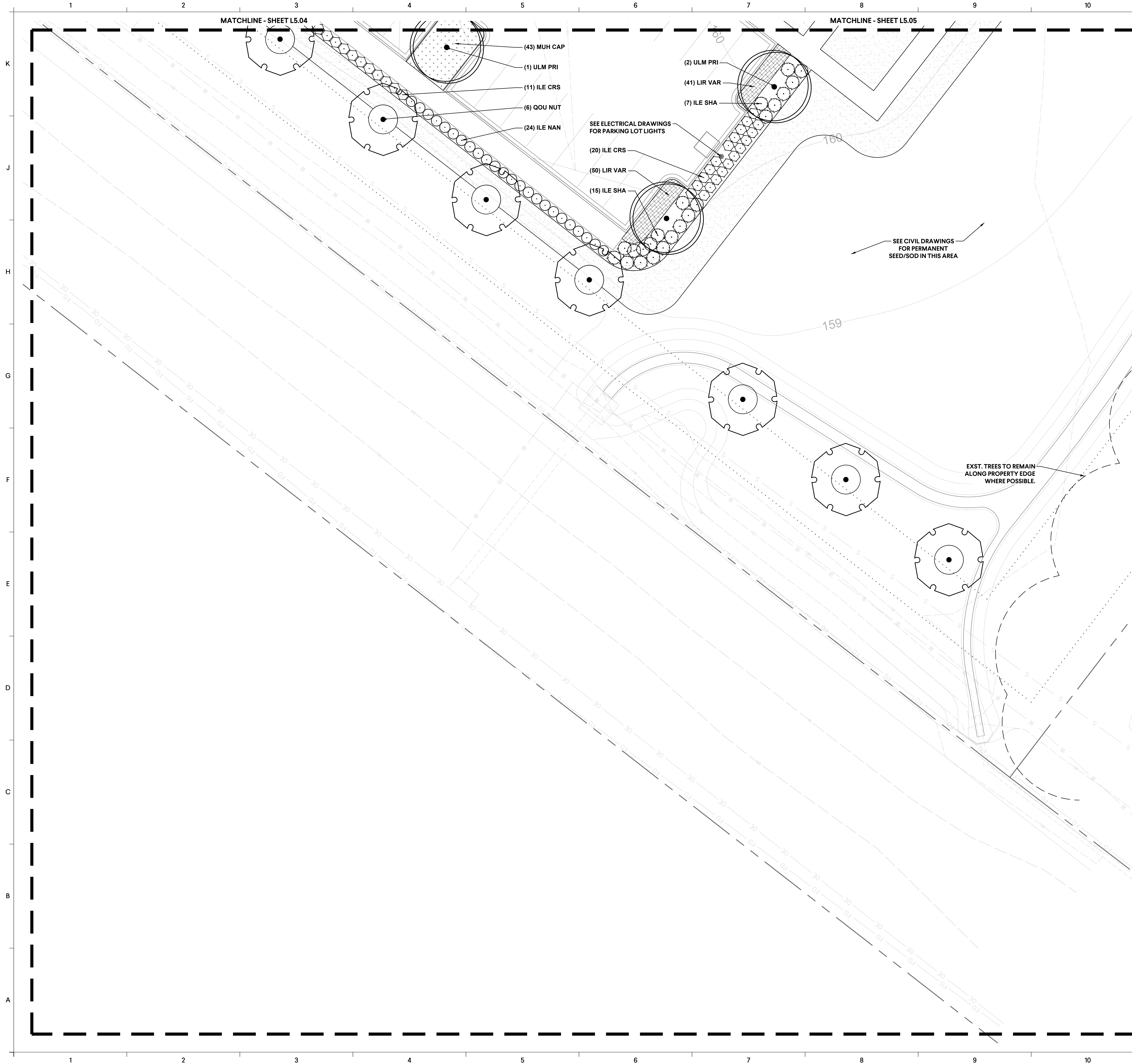
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LANDSCAPE PLAN
L5.06



PLANT SCHEDULE

CODE	BOTANICAL NAME	COMMON NAME
TREES		
ILE LIB	ILEX X 'CONTY'	LIBERTY™ HOLLY
ILE EM2	ILEX X 'EMILY BRUNER'	EMILY BRUNER HOLLY
LAG WHI	LAGERSTROEMIA INDICA X FAURIEI 'NATCHEZ'	NATCHEZ CRAPE MYRTLE MULTI-TRUNK
LIR EMC	LIRIODENDRON TULPIFERA 'JFS-OZ'	EMERALD CITY® TULIP POPLAR
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QOU NUT	QUERCUS NUTTALLII	NUTTALL OAK
ULM PRI	ULMUS AMERICANA 'PRINCETON'	PRINCETON AMERICAN ELM
SHRUBS		
GAR FRO	GARDENIA JASMINOIDES 'FROSTPROOF'	FROSTPROOF GARDENIA
ILE CRS	ILEX CORNUTA 'CARISSA'	CARISSA CHINESE HOLLY
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ROS CRL	ROSA X 'CORAL DRIFT'	CORAL DRIFT ROSE
SHRUB AREAS		
MUH CAP	MUHLENBERGIA CAPILLARIS	WHITE AND PINK MUHLY GRASS
GROUND COVERS		
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MULCH	PINE STRAW MULCH	PINE STRAW MULCH

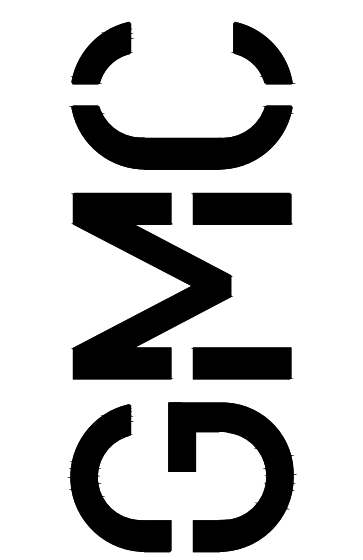
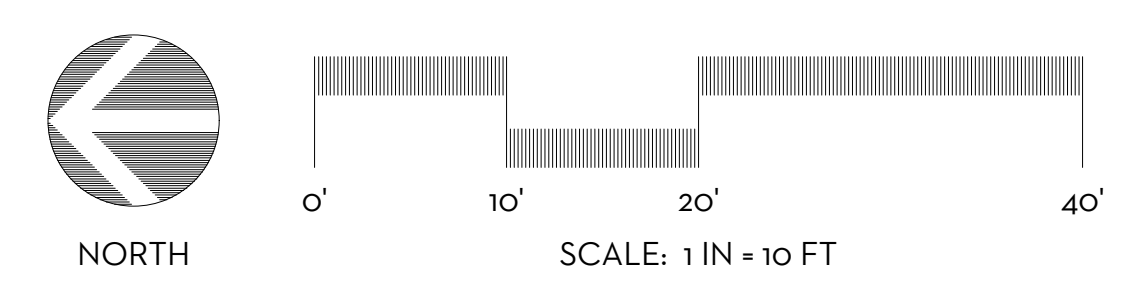
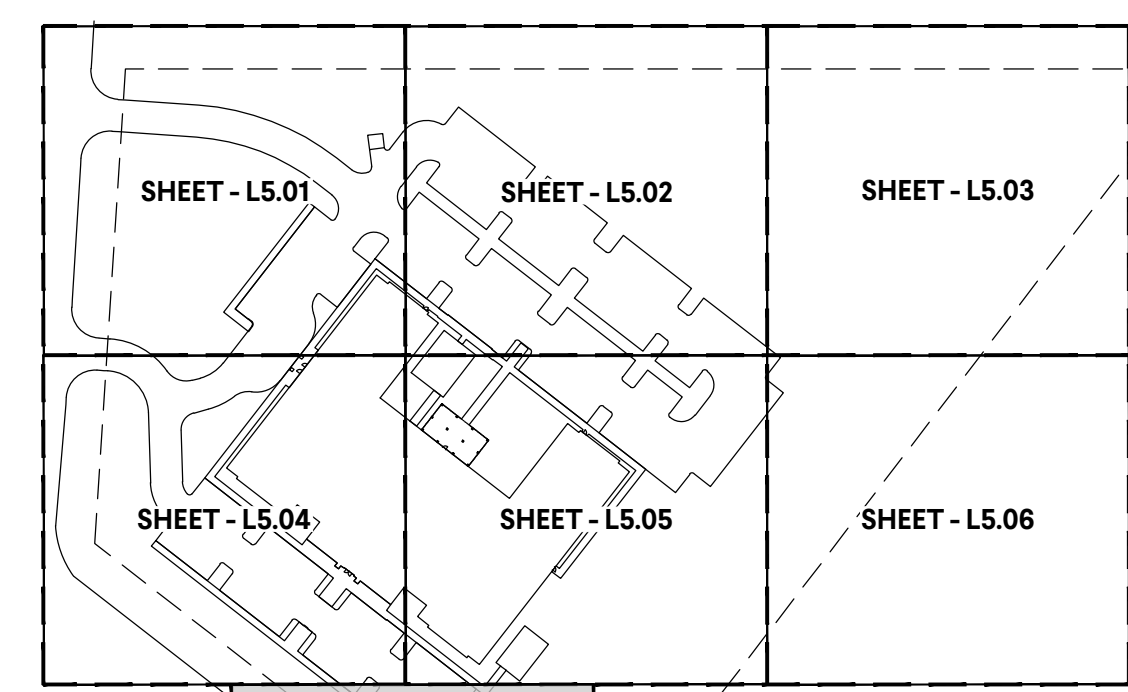
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LANDSCAPE PLAN

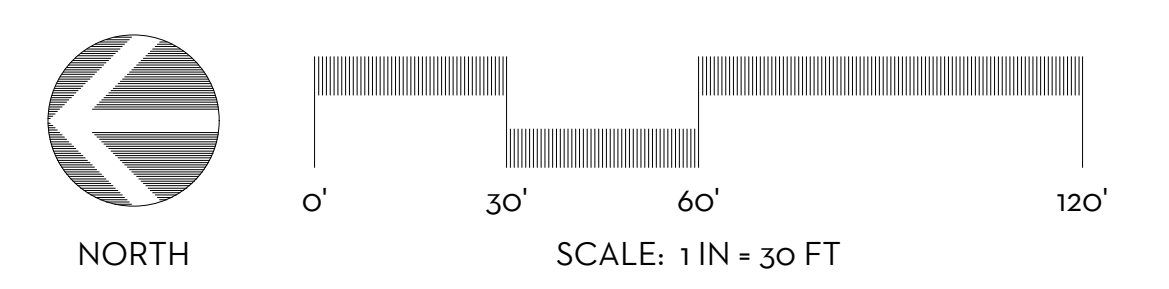
L5.07



CONFIRM AND COORDINATE
IRRIGATION WATER SOURCE WITH OWNER'S REPRESENTATIVE PRIOR
TO INSTALLATION.

NOTES

AREAS HATCHED TO BE IRRIGATED BY PERFORMANCE. SEE SPECIFICATION.
CONFIRM IRRIGATION WATER SOURCE WITH OWNER'S REPRESENTATIVE PRIOR
TO INSTALLATION.
IRRIGATION CONTRACTOR TO COORDINATE IRRIGATION SLEEVING INSTALLATION
WITH GENERAL CONTRACTOR.



LIMITS OF IRRIGATION

L7.00

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