CLINTON COUNTY
LAW CENTER PARKING LOT
630 N 3RD ST.
CLINTON, IA 52732

PROFESSIONAL SEALS

LICENSED PROFESSIONAL ARCHITECT
MICHAEL E. MCNEIL
ARC08043
IOWA

I HEREBY CERTIFY THAT THE PORTION OF THIS TECHNICAL SUBMISSION DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND RESPONSIBLE CHARGE. I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF IOWA.

MICHAEL E. McNEIL

SIGNATURE	DATE 10/22/2024
ARC08043	06/30/2025
LICENSE NUMBER	RENEWAL DATE

PAGES OR SHEETS COVERED BY THIS CERTIFICATION:
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LICENSED PROFESSIONAL ENGINEER
EMILY M. CROWE
25265
IOWA

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

FOR ORIGIN DESIGN CO.

EMILY M. CROWE	DATE 10/22/2024
25265	12/31/2024
LICENSE NUMBER	RENEWAL DATE

PAGES OR SHEETS COVERED BY THIS CERTIFICATION:
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THE ARCHITECTURAL DRAWINGS INCLUDED IN THIS SET SHALL BE USED FOR REFERENCE ONLY. ARCHITECTURAL DRAWINGS WATERMARKED "PRELIMINARY- NOT FOR CONSTRUCTION" SHALL NOT BE USED FOR CONSTRUCTION. ALL CONSTRUCTION DOCUMENTS FOR THIS BUILDING, ABOVE THE FOUNDATION LEVEL, SHALL BE PROVIDED SEPARATELY, BY THE OWNER.

THE CIVIL AND STRUCTURAL DRAWINGS INCLUDED IN THIS SET ARE INTENDED TO BE USED FOR CONSTRUCTION.

CONTACT

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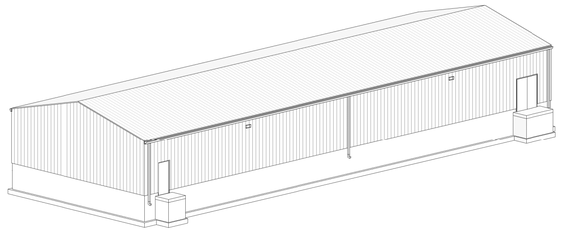
PROJECT LOCATION



N
PLAN

SHEET LIST

GENERAL	
G1.0	COVER SHEET
G1.1	CODE REVIEW AND PLANS
ARCHITECTURAL	
A0.1	ABBREVIATIONS AND STANDARDS
A1.0	FLOOR PLAN
A4.0	BUILDING ELEVATIONS AND DOOR SCHEDULE
A5.0	BUILDING SECTIONS
STRUCTURAL	
S0.1	ABBREVIATIONS
S0.2	STRUCTURAL NOTES
S1.1	FOUNDATION PLAN AND SCHEDULE
S6.1	TYPICAL STRUCTURAL DETAILS

SEE COVER SHEET G0.01 FOR CIVIL SHEET SET.

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Client Name
CLINTON COUNTY

Project Name
LAW CENTER PARKING LOT

Location / Description
630 N 3RD ST.
CLINTON, IA 52732

Revisions

Rev	Description	Date
	Issued for Bidding	10/22/2024
	Issued for Construction	

Project Number 24036
Project Manager MEM

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Autodesk Docs://24036_Clinton County Maintenance Garage/A-24036_Clinton County Maintenance Garage.rvt
All scales based on 22x34 full sheet size.

Sheet Title
COVER SHEET

G1.0

APPLICABLE CODES

2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL FIRE CODE
2020 NATIONAL ELECTRICAL CODE
2018 INTERNATIONAL ENERGY CONSERVATION CODE
2018 UNIFORM PLUMBING CODE

2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

PROJECT SUMMARY

BUILDING CONSTRUCTION SUMMARY: WOOD FRAMED MULTI-USE BUILDING

BUILDING USE: EQUIPMENT AND RECORD STORAGE

BUILDING CONSTRUCTION TYPE: VB

BUILDING IS NOT FIRE SPRINKLED

CHAPTER 3: OCCUPANCY CLASSIFICATION

GROUP	SECTION	DESCRIPTION
U	312.1	MISCELLANEOUS STORAGE

NOTES / EXCEPTIONS:

CHAPTER 5: GENERAL BUILDING LIMITATIONS

ALLOWABLE HEIGHTS, STORIES & AREAS		INCREASES	
SECTION	TABLE 504.3, 504.4, 506.2	506.3 FRONTAGE INCREASE	N/A
GROUP	U		
CONSTRUCTION TYPE	VB		
ALLOWABLE AREA (GROSS)	5,500 SF		
NUMBER OF STORIES	1 (40'-0")		

PROPOSED BUILDING LIMITATIONS

GROUP	U
CONSTRUCTION TYPE	VB
PROPOSED AREA (GROSS)	4,589 SF
PROPOSED STORIES	1 (1 ALLOWED)
PROPOSED HEIGHT	15'-0" (40'-0" ALLOWED)

NOTES / EXCEPTIONS:

CHAPTER 6: CONSTRUCTION TYPES/REQUIREMENTS

TABLE 601: FIRE RESISTIVE RATING REQUIREMENTS FOR BUILDING ELEMENTS

GROUP	CONSTRUCTION TYPE	BUILDING ELEMENT	RATING (HOURS)
U	VB	STRUCTURAL FRAME	0
		BEARING WALLS -EXTERIOR	0
		BEARING WALLS -INTERIOR	0
		NONBEARING WALLS -EXTERIOR	0
		NONBEARING WALLS -INTERIOR	0
		FLOOR CONSTRUCTION	0
		ROOF CONSTRUCTION	0

TABLE 602: FIRE RESISTIVE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE

GROUP	CONSTRUCTION TYPE	FIRE SEPARATION DISTANCE	RATING (HOURS)
U	VB	X < 5'	1
		5' ≤ X < 10'	1
		10 ≤ X < 30'	0
		X ≥ 30'	0

NOTES / EXCEPTIONS:

CHAPTER 7: FIRE RATED CONSTRUCTION

GROUP	CONSTRUCTION TYPE	IBC SECTION AND DESCRIPTION	RATING (HOURS)
U	VB	705 EXTERIOR WALLS	NA
		706 FIRE WALLS	NA
		707 FIRE BARRIERS (707.5 CONTINUITY)	NA
		708 FIRE PARTITIONS (CORRIDORS / DWELLING UNIT SEPARATION)	NA
		713 SHAFT ENCLOSURES (<4 STORY - 1 HOUR)	1-HOUR

NOTES / EXCEPTIONS:

CHAPTER 10: MEANS OF EGRESS / OCCUPANT LOADS

SEE CODE PLANS.

SECTION 1005.3: EXIT WIDTH REQUIREMENTS

SEE CODE PLANS.

NOTES / EXCEPTIONS:
1006.2.1 COMMON PATH OF EGRESS TRAVEL = 100' (UNSPRINKLED)
1006.3.2 NUMBER OF EXITS PER STORY = 2 (1-500 OCCUPANTS)
1017.2 EXIT ACCESSIBLE TRAVEL DISTANCE = 300' (UNSPRINKLED)

IOWA PLUMBING CODE: PLUMBING FIXTURES REQUIRED

NOTES / EXCEPTIONS: PLUMBING FIXTURES ARE NOT REQUIRED FOR GROUP "U" OCCUPANCY BUILDINGS.

ENERGY CODE: 2012 INTERNATIONAL ENERGY CONSERVATION CODE

CLIMATE ZONE: 5

NOTES / EXCEPTIONS: THIS BUILDING WILL NOT CONTAIN ANY CONDITIONED SPACE AND SHALL BE EXEMPT FROM THE BUILDING THERMAL ENVELOPE REQUIREMENTS OF THE IECC PER SECTION C101.5.2.

CODE LEGEND

1 HOUR FIRE RATED ASSEMBLY

2 HOUR FIRE RATED ASSEMBLY

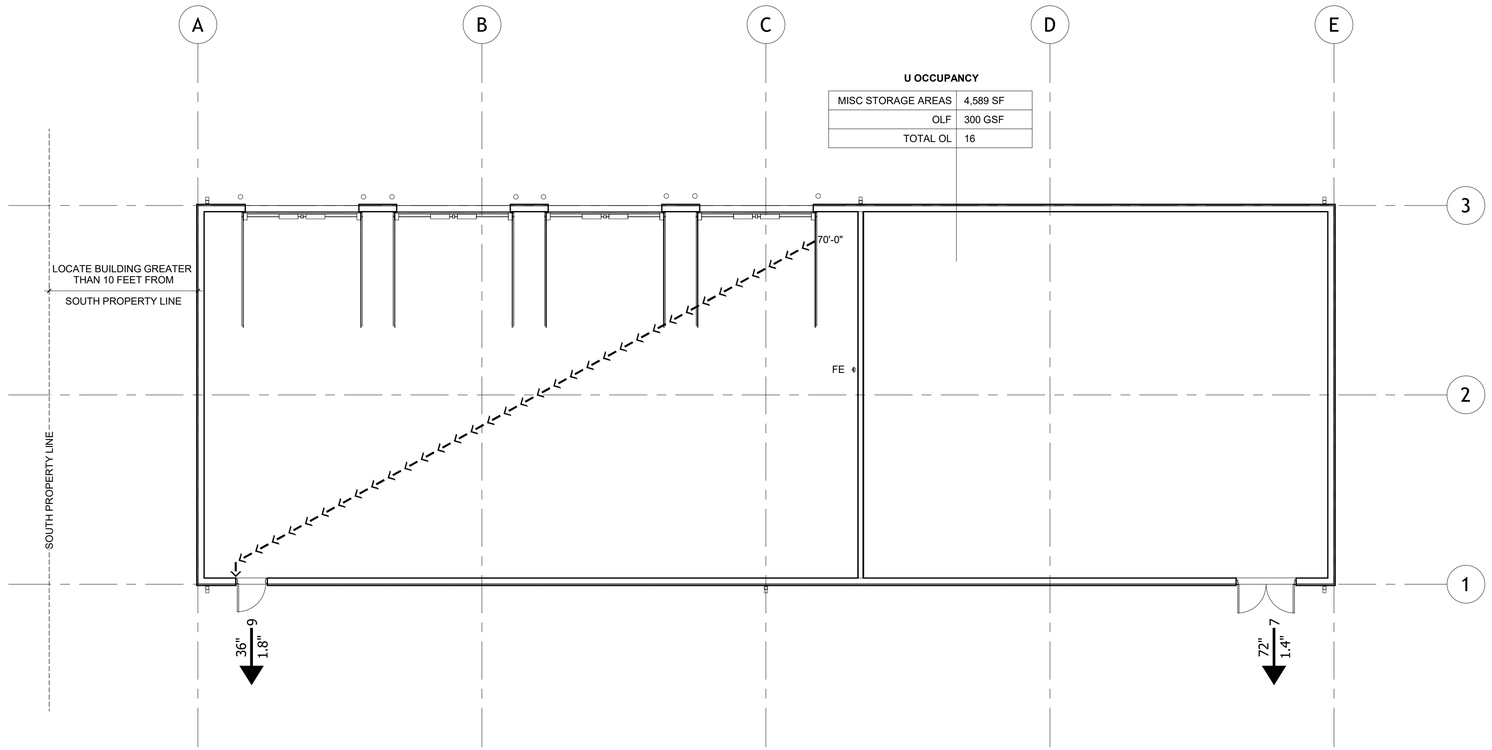
FE FIRE EXTINGUISHER

ACTUAL EXIT OR STAIR WIDTH
NUMBER OF OCCUPANTS
REQUIRED WIDTH FOR # OF OCCUPANTS

OF OCCUPANTS TO MEANS OF EGRESS

(#) # TOTAL OCCUPANTS

EXIT ACCESSIBLE TRAVEL DISTANCE



N
PLAN

C1-CODE FIRST FLOOR
1/8" = 1'-0"

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Sheet Title
CODE REVIEW AND PLANS

G1.1

ABBREVIATIONS

L	ANGLE
AB	ANCHOR BOLT
A/C	AIR CONDITIONING
ACP	ACOUSTICAL CEILING PANEL
ACM	ALUMINUM COMPOSITE MATERIAL
ADD	ADDITION
ADD'L	ADDITIONAL
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATING
ALUM	ALUMINUM
ANCH	ANCHOR
ARCH	ARCHITECT / ARCHITECTURAL
ASPH	ASPHALT
AVG	AVERAGE
B/	BASE OF
BB	BOND BEAM
BD	BOARD
BL	BRICK LEDGE
BLDG(S)	BUILDING(S)
BLKG	BLOCKING
BOT	BOTTOM
BRG	BEARING
BRK	BRICK
BSMT	BASEMENT
BTWN	BETWEEN
C-I-P	CAST-IN-PLACE CONCRETE
CG	CORNER GUARD
CJ	CONTROL JOINT
CL or ℄	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONF	CONFERENCE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CP	CONCRETE PANEL
CPT	CARPET TILE
CTB	CHANGING TABLE
CTR(D)	CENTER, CENTERED
DEG or °	DEGREE
DF	DRINKING FOUNTAIN
DIA or Ø	DIAMETER
DIM(S)	DIMENSION(S)
DN	DOWN
DS	DOWNSPOUT
DW	DISHWASHER
DWG(S)	DRAWING(S)
EA	EACH
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EF	EACH FACE
EHD	ELECTRIC HAND DRYER
EIFS	EXTERIOR FINISH INSULATION SYSTEMS
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
ENGR	ENGINEER
EPY	EPOXY
EQ	EQUAL
EQPT	EQUIPMENT
ES	EXPOSED STRUCTURE
ETR	EXISTING TO REMAIN
EX	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F/	FACE OF
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FE	FIRE EXTINGUISHER

FEC	FIRE EXTINGUISHER & CABINET
FCE	FINISHED CASEWORK END
FFE	FINISH FLOOR ELEVATION
FIG	FIGURE
FIN	FINISHED
FLR	FLOOR
FRP	FIBERGLASS REINFORCED PANEL
FRZ	FREEZER
FT	FOOT / FEET
FTG	FOOTING
FV	FIELD VERIFY
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GL_LAM	GLUED LAMINATED TIMBER
GRD	GRADE
GWB	GYPSUM WALLBOARD
GYP	GYPSUM
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HSS	HOLLOW STRUCTURAL SECTION
IMP	INSULATED METAL PANEL
IN	INCH / INCHES
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
JT	JOINT
KIT	KITCHEN / KITCHENETTE
LAV	LAVATORY
LF	LINEAL FOOT / FEET
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LVL	LAMINATED VENEER LUMBER
LVT	LUXURY VINYL TILE
MIR	MIRROR
MAS	MASONRY
MAX	MAXIMUM
MCM	METAL COMPOSITE MATERIAL
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR('S)	MANUFACTURER('S)
MPH	MOP HOLDER
MIN	MINIMUM
MISC	MISCELLANEOUS
MKB	MARKERBOARD
MP	METAL PANEL
MR	MOISTURE RESISTANT
MS	METAL STUD(S)
MTD	MOUNTED
MTL	METAL
MW	MICROWAVE
N/A	NOT APPLICABLE / NOT AVAILABLE
ND	SANITARY NAPKIN DISPOSAL
NIC	NOT IN CONTRACT
NO or #	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OH	OVERHEAD
OFOI	OWNER FURNISHED AND INSTALLED
OFCI	OWNER FURNISHED, GC INSTALLED
OL	OCCUPANT LOAD
OLF	OCCUPANT LOAD FACTOR
OPG	OPENING
OPP	OPPOSITE
OSB	ORIENTED STRAND BOARD
PC	PRECAST / PRESTRESSED CONCRETE
PCT	PORCELAIN / CERAMIC TILE
PERF	PERFORATED
PERIM	PERIMETER

PERP	PERPENDICULAR
PL	PLATE
P/L	PROPERTY LINE
PLM	PLASTIC LAMINATE
POLYISO	POLYISOCYANURATE
PREFIN	PREFINISHED
PRELIM	PRELIMINARY
PROP	PROPOSED
PSI	POUNDS PER SQUARE INCH
PT	PAINT/PAINTED
PTD	PAPER TOWEL DISPENSER
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
QT	QUARRY TILE
QTY	QUANTITY
QTZ	QUARTZ
R	RADIUS
RB	RESILIENT BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RDO	ROOF DRAIN OVERFLOW
REBAR	REINFORCING BAR
REC	RECOMMENDED
REC'S	RECOMMENDATIONS
REF	REFERENCE
REINF	REINFORCING/REINFORCED
REQ	REQUIRED
REQ'S	REQUIREMENTS
REV	REVISION
RFG	REFRIGERATOR
RM	ROOM
RO	ROUGH OPENING
RP	RADIUS POINT
RS	RESILIENT STAIR TREADS / RISERS
RTF	RESILIENT TILE FLOORING
RTU	ROOFTOP UNIT
SC	SEALED CONCRETE
SCH('D)	SCHEDULE / SCHEDULED
SD	SOAP DISPENSER
SF	SQUARE FOOT / FEET
SH	SHELF
SHR	SHOWER
SHS	SHOWER SEAT
SHTG	SHEATHING
SIM	SIMILAR
SK	SINK
SND	SANITARY NAPKIN DISPENSER
SOG	SLAB ON GRADE
SPEC'D	SPECIFIED
SPEC(S)	SPECIFICATION(S)
SPF	SPRAY POLYURETHANE FOAM
SQ	SQUARE
SS	STAINLESS STEEL
SSC	STAINED AND SEALED CONCRETE
SSF	SOLID SURFACE
STAG	STAGGERED
STD	STANDARD
STL	STEEL
STOR	STORAGE
STR	STRUCTURE / STRUCTURAL
T/	TOP OF
TB	TOWEL BAR
TEMP	TEMPORARY
TER	TERRAZZO
TERM	TERMINATE
THK	THICK / THICKNESS
TKB	TACKBOARD
TPD	TOILET PAPER DISPENSER
TP	TOILET PARTITION
TPO	THERMOPLASTIC POLYOLEFIN
TRTD	TREATED
TV	TELEVISION
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES, INC.
UNO	UNLESS NOTED OTHERWISE
UV	ULTRAVIOLET

VAR	VARIES
VAV	VARIABLE AIR VOLUME
VCT	VINYL COMPOSITION TILE
VER	VERIFY
VERT	VERTICAL
VTR	VENT THRU ROOF
VWC	VINYL WALL COVERING
W/	WITH
W/O	WITHOUT
WD	WOOD
WH	WATER HEATER
WWF	WELDED WIRE FABRIC
X	CROSS
XP	EXPOSED

INDUSTRY STANDARDS AND CODES	
ACI	AMERICAN CONCRETE INSITITUTE
ADA	AMERICANS WITH DISABILITIES ACT
APA	THE ENGINEERED WOOD ASSOCIATION
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
AWI	ARCHITECTURAL WOODWORK INSTITUTE
HMMA	HOLLOW METAL MANUFACTURERS ASSOCIATION
IBC	INTERNATIONAL BUILDING CODE
ICC	INTERNATIONAL CODE COUNCIL
IEBC	INTERNATIONAL EXISTING BUILDING CODE
IECC	INTERNATIONAL ENERGY CONSERVATION CODE
IFC	INTERNATIONAL FIRE CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
OSHA	OCCUPATIONAL SAFETY AND HEALTH ASSOCIATION

GENERAL HATCH PATTERNS

- ACOUSTICAL CEILING
- ASPHALT PAVING
- BRICK IN ELEVATION
- CONCRETE (CAST IN PLACE OR PRECAST)
- CONCRETE BLOCK (CMU)
- CUT STONE
- EARTH
- FACE BRICK
- FINISHED WOOD
- FREE DRAINING FILL OR GRAVEL (DESIGNATE ON DRAWINGS)
- GRASS
- GYPSUM BOARD
- INSULATION (BLANKET OR BATT)
- PLYWOOD
- RIGID INSULATION
- ROUGH LUMBER
- SEALANT
- STRUCTURAL STEEL

WALL LEGEND

- EXISTING WALL
- EXISTING WALL TO BE REMOVED
- PROPOSED WALL

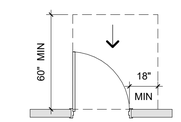
GENERAL SYMBOLS

- EXTERIOR ELEVATION (1 / A1)
- INTERIOR ELEVATION CASEWORK ELEVATION (1 / A1)
- BUILDING SECTION (1 / A1)
- WALL SECTION (1 / A1)
- DETAIL (1 / A1)
- GRID LINE (A)
- REVISION NOTE (1)
- KEY NOTE (1)
- DEMOLITION KEY NOTE (1)
- MATERIAL TYPE (XXX-X)
- EXTERIOR WALL TYPE (W | XXXX-X)
- INTERIOR WALL TYPE (XXX / X)
- WINDOW TYPE (1)
- ROOM TAG (ROOM NAME / 100)
- DOOR TAG (XXX)

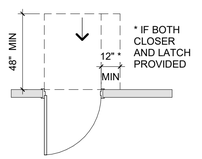
DOOR SYMBOLS

- PROPOSED DOOR
- PROPOSED DOOR 180° SWING
- PROPOSED DOOR DOUBLE ACTING
- PROPOSED DOOR UPWARD ACTING SECTIONAL
- PROPOSED SLIDING DOOR
- EXISTING DOOR TO REMAIN
- EXISTING DOOR TO BE REMOVED OR RELOCATED

ADA DOOR CLEARANCES



MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS - FRONT APPROACH - PULL SIDE



MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS - FRONT APPROACH - PUSH SIDE

PRELIMINARY- NOT FOR CONSTRUCTION

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Client Name

CLINTON COUNTY

Project Name

LAW CENTER
PARKING LOT

Location / Description

630 N 3RD ST.
CLINTON, IA 52732

Revisions	Rev	Description	Date
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All scales based on 22x34 full sheet size.

Sheet Title

ABBREVIATIONS AND STANDARDS

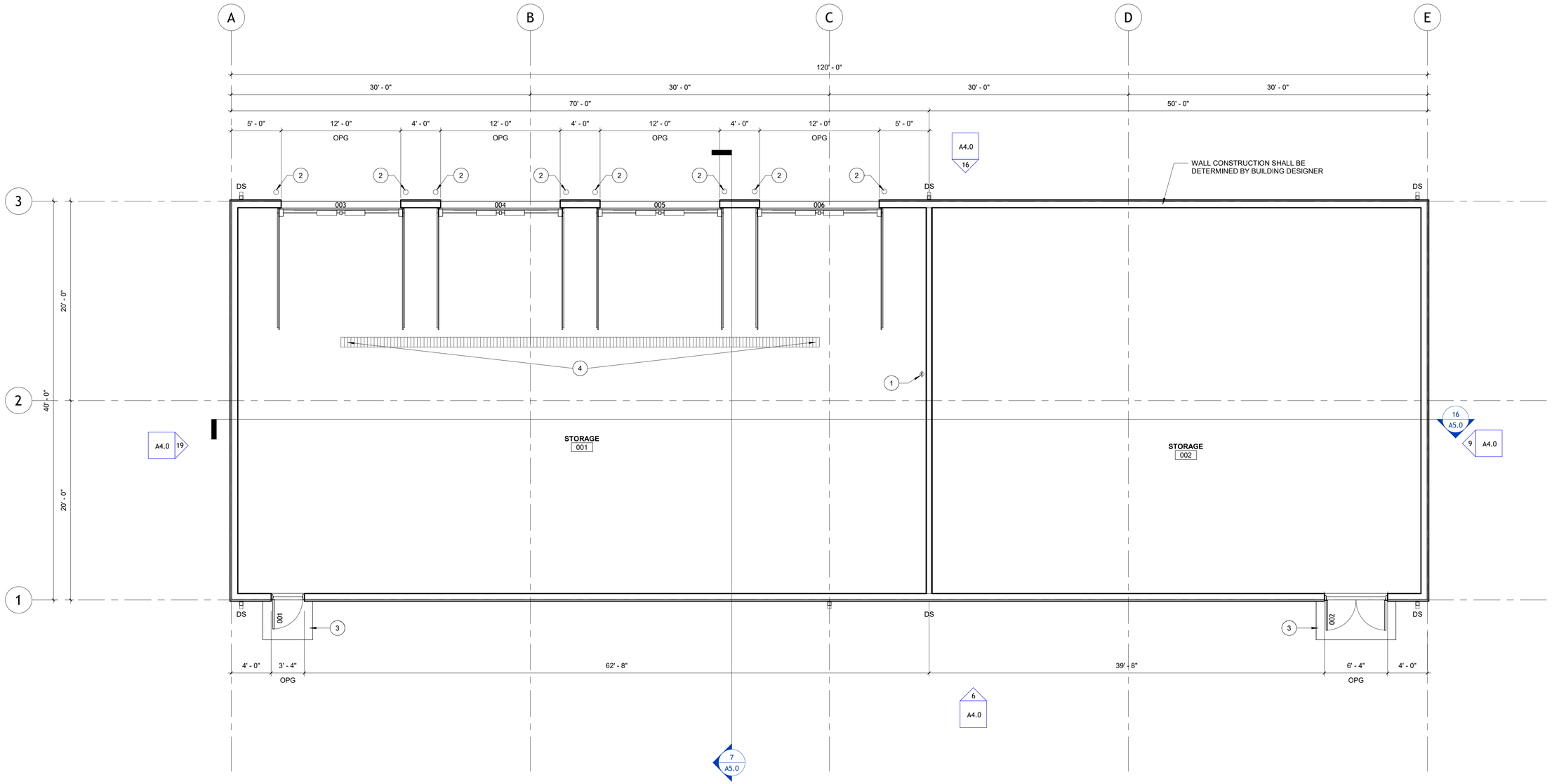
A0.1

GENERAL NOTES

1. INTERIOR WALLS ARE DIMENSIONED TO CENTER OF FRAMING UNO.
2. EXTERIOR WALLS ARE DIMENSIONED TO OUTSIDE FACE OF PLYWOOD AT FRAMED EXTERIOR WALLS.
3. CONTRACTOR SHALL PROVIDE BLOCKING IN FRAMED WALLS FOR SUPPORT OF WALL MOUNTED HARDWARE INDICATED.
4. UNLESS NOTED OTHERWISE, BOLD LINEWORK DENOTES WORK OF THIS CONTRACT, DASHED LINEWORK DENOTES EXISTING TO BE DEMOLISHED, AND FADED LINEWORK DENOTES EXISTING TO REMAIN.
5. ALL EXISTING CONSTRUCTION AND ITEMS TO REMAIN, INCLUDING BUT NOT LIMITED TO ITEMS INDICATED ON THESE DRAWINGS SHALL BE PROTECTED THROUGHOUT THE DURATION OF THE PROJECT. ANY ITEM THAT IS DAMAGED SHALL BE REPLACED OR REPAIRED TO THE OWNER'S SATISFACTION.
6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE AND OBSERVE ALL EXISTING CONDITIONS BEFORE BIDDING THE PROJECT. CONTACT ARCHITECT WITH ANY DISCREPANCIES. FAILURE TO DO SO DOES NOT RELIEVE THE CONTRACTOR FROM PROVIDING A COMPLETE PROJECT AS INTENDED.
7. GENERAL CONTRACTOR TO PROVIDE ALL INDICATED AND REQUIRED DEMOLITION WORK EXCEPT WHERE SPECIFICALLY INDICATED TO BE PROVIDED BY OTHER CONTRACTS OR SHOWN BY OTHER DISCIPLINES AS THEIR WORK.
8. ANY DAMAGE TO ADJACENT SURFACES, FINISHES OR ACCESSORIES DURING THE DEMOLITION OR NEW CONSTRUCTION PHASE SHALL BE REPAIRED TO MATCH THE EXISTING CONDITION BY THE DISCIPLINE WHOSE WORK RESULTED IN THE DAMAGE USE MATERIALS TO MATCH OR RESEMBLE EXISTING AND HAVE SAME FINISHES AS THOSE REMOVED AND/OR ADJACENT MATERIALS UNLESS OTHERWISE NOTED.
9. CUTTING AND PATCHING SHALL BE THE RESPONSIBILITY OF THE TRADE WHOSE WORK RESULTS IN THE NEED FOR CUTTING AND PATCHING UNLESS A SPECIFIC CONTRACTOR IS CALLED OUT ON THE DRAWINGS. QUALITY OF WORKMANSHIP, MATERIALS AND QUALITY OF FINISH SHALL BE EQUAL TO THE LEVEL ESTABLISHED FOR SIMILAR NEW WORK.

PLAN KEY NOTES

1. PROVIDE A 10LB PORTABLE FIRE EXTINGUISHER AND A WALL MOUNTED HOOK FOR FIRE EXTINGUISHER PLACEMENT.
2. STEEL BOLLARD CONSTRUCTED FROM 6" SCH 40 STEEL PIPE FILLED WITH CONCRETE STANDING 4' - 0" ABOVE THE PAVEMENT SURFACE AND SET 4' - 0" BELOW THE PAVEMENT SURFACE IN AN 18" DIAMETER CONCRETE BASE. PAINT SAFETY YELLOW AND INCLUDE A 30# FELT BOND BREAK WHERE THE CONCRETE BASE MEETS SITE PAVEMENT.
3. CONCRETE STOOP OUTSIDE DOOR. SEE STRUCTURAL SHEETS.
4. COORDINATE A IN-FLOOR TRENCH DRAIN AND PLUMBING CONNECTION WITH THE OWNER, THIS ROOM. THE LOCATION AND EXTENTS OF THIS DRAIN MAY DIFFER FROM WHAT IS SHOWN ON THIS PLAN.



PLAN

16 1- FIRST FLOOR
3/16" = 1'-0"

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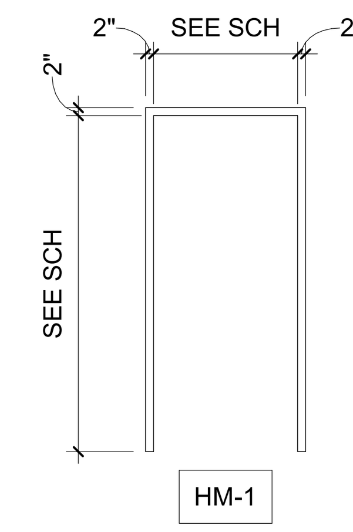
FLOOR PLAN

A1.0

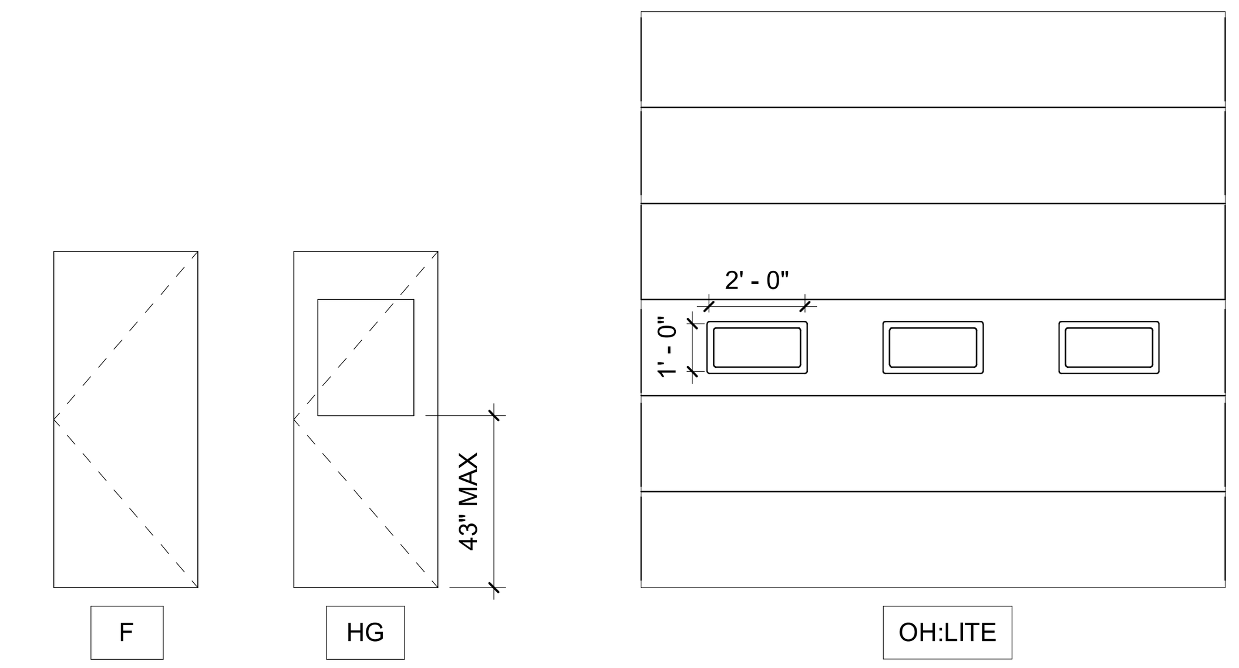
DOOR SCHEDULE														
	DOOR							FRAME				HARDWARE GROUP		
TAG	WIDTH	HEIGHT	TYPE	MATERIAL	FINISH	GLAZING	FIRE RATING	TYPE	MATERIAL	FINISH	PROFILE		COMMENTS	TAG
001	3' - 0"	7' - 0"	F	HM	PAINT	--	--	HM-1	HM	PAINT		(none)	1	001
002	6' - 0"	7' - 0"	F	HM	PAINT	--	--	HM-1	HM	PAINT		(none)	1	002
003	12' - 0"	10' - 0"	OH : LITE	GALV	PREFINISHED	MFR STD	--	--	GALV	PAINT		(none)	1, 2, 3	003
004	12' - 0"	10' - 0"	OH : LITE	GALV	PREFINISHED	MFR STD	--	--	GALV	PAINT		(none)	1, 2, 3	004
005	12' - 0"	10' - 0"	OH : LITE	GALV	PREFINISHED	MFR STD	--	--	GALV	PAINT		(none)	1, 2, 3	005
006	12' - 0"	10' - 0"	OH : LITE	GALV	PREFINISHED	MFR STD	--	--	GALV	PAINT		(none)	1, 2, 3	006

DOOR SCHEDULE COMMENTS

1. COORDINATE ALL DOOR SELECTIONS WITH THE OWNER
2. GLAZING IN OH DOORS WILL BE MANUFACTURER'S STANDARD 12" X 24" GLAZING.
3. OVERHEAD SECTIONAL DOORS SHOULD EXTEND PAST THE OPENING WIDTHS SCHEDULED BY 1" ON EACH SIDE OF THE OPENING OR AS OTHERWISE DIRECTED BY THE MANUFACTURER.



DOOR FRAME ELEVATIONS

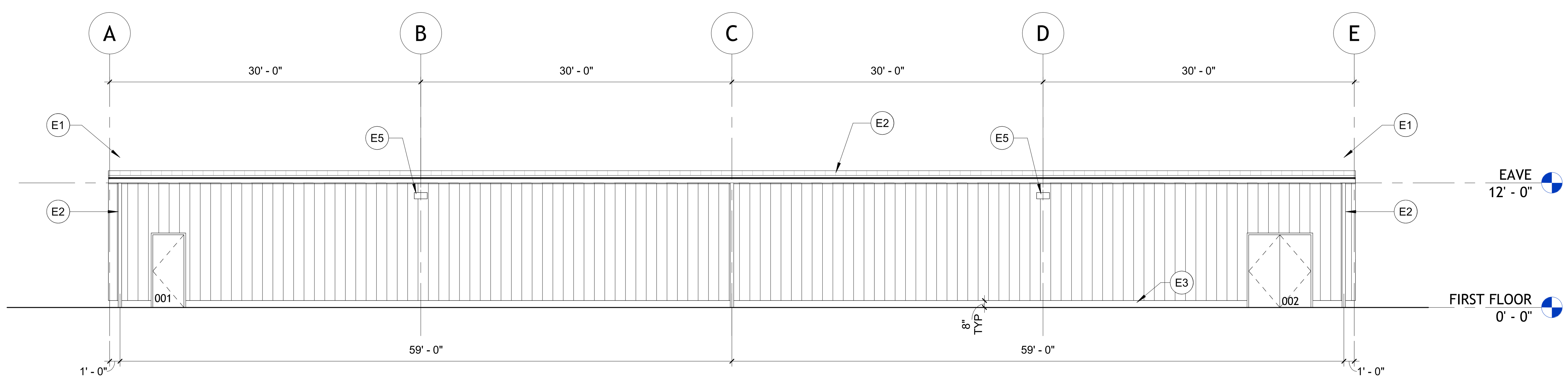


2 OR 3 EQ SPACED LITES DEPENDING ON DOOR OPG WIDTH. COORDINATE WITH OWNER

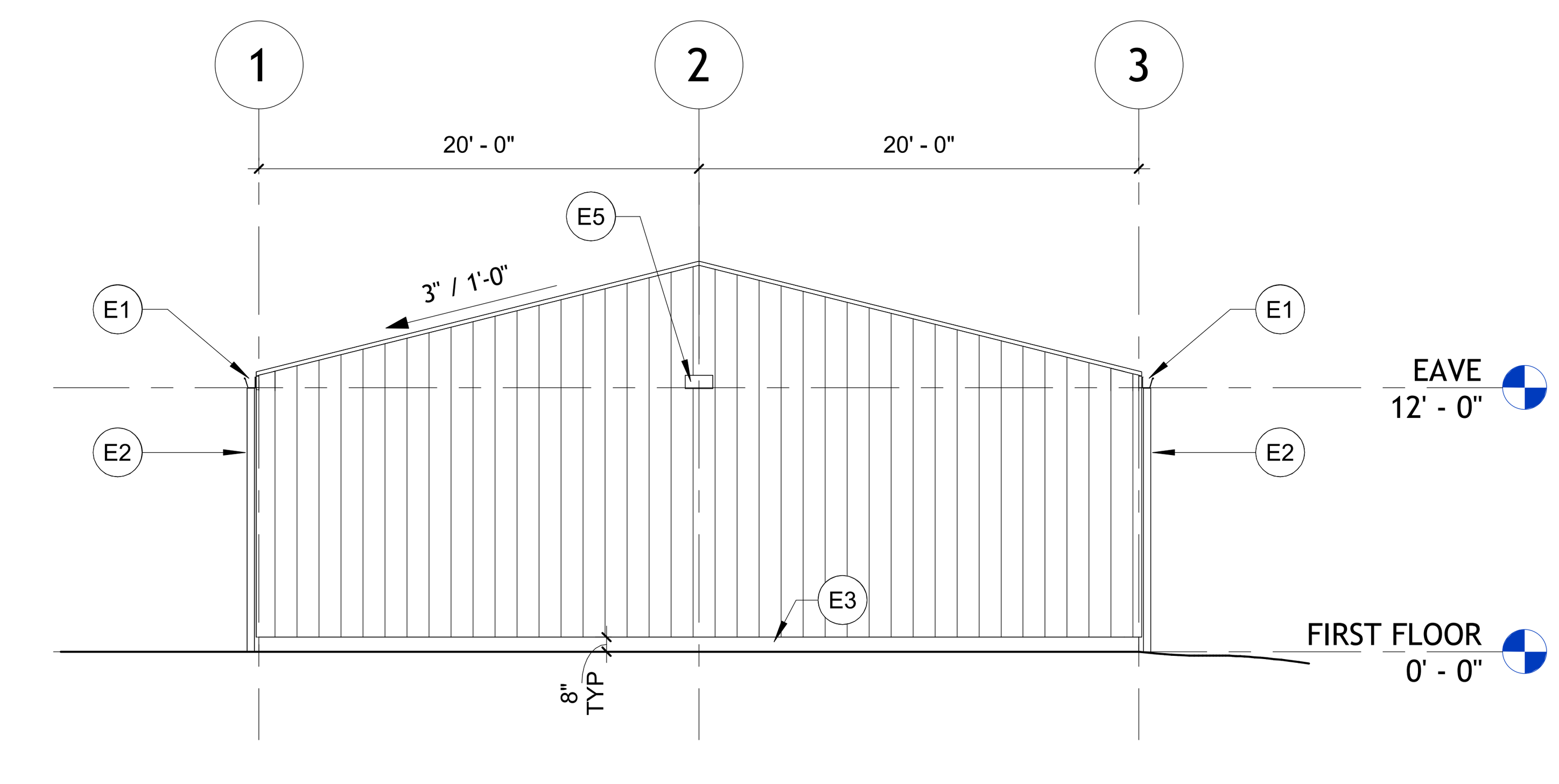
DOOR PANEL ELEVATIONS

BUILDING ELEVATION AND SECTION KEY NOTES

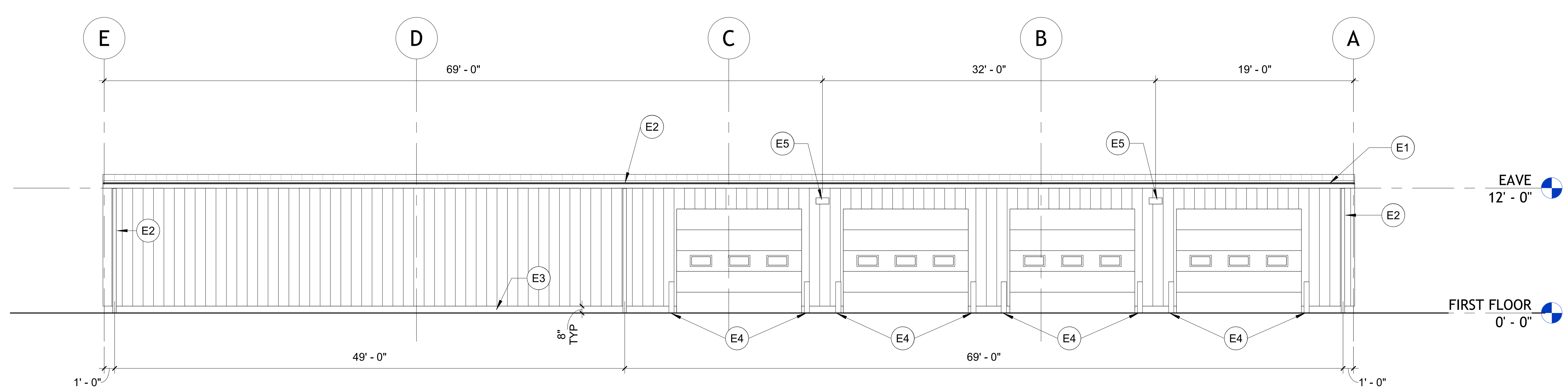
- E1 PREFINISHED METAL GUTTERS. OWNER TO SELECT.
- E2 PREFINISHED METAL DOWNSPOUTS. OWNER TO SELECT.
- E3 CONCRETE STEM WALL AND FOUNDATION. SEE STRUCTURAL SHEETS.
- E4 PROVIDE BOLLARDS ON EACH SIDE OF OVERHEAD DOOR OPENINGS. SEE FLOOR PLAN.
- E5 WALL PACK LIGHT FIXTURE. OWNER TO SELECT.
- E6 SEE STRUCTURAL SHEETS FOR INTERIOR SLAB CONSTRUCTION. PROVIDE A 15-MIL VAPOR BARRIER UNDER THIS SLAB. INSTALL VAPOR BARRIER WITH TAPED SEAMS PER MFR'S RECOMMENDATIONS.
- E7 OWNER TO COORDINATE THE HEIGHT EXTENTS OF THIS NON-BEARING INTERIOR WALL.
- E8 SITE PAVEMENT. SEE CIVIL PLANS.
- E9 PROVIDE A RIDGE VENT ALONG THE GABLE PEAK.



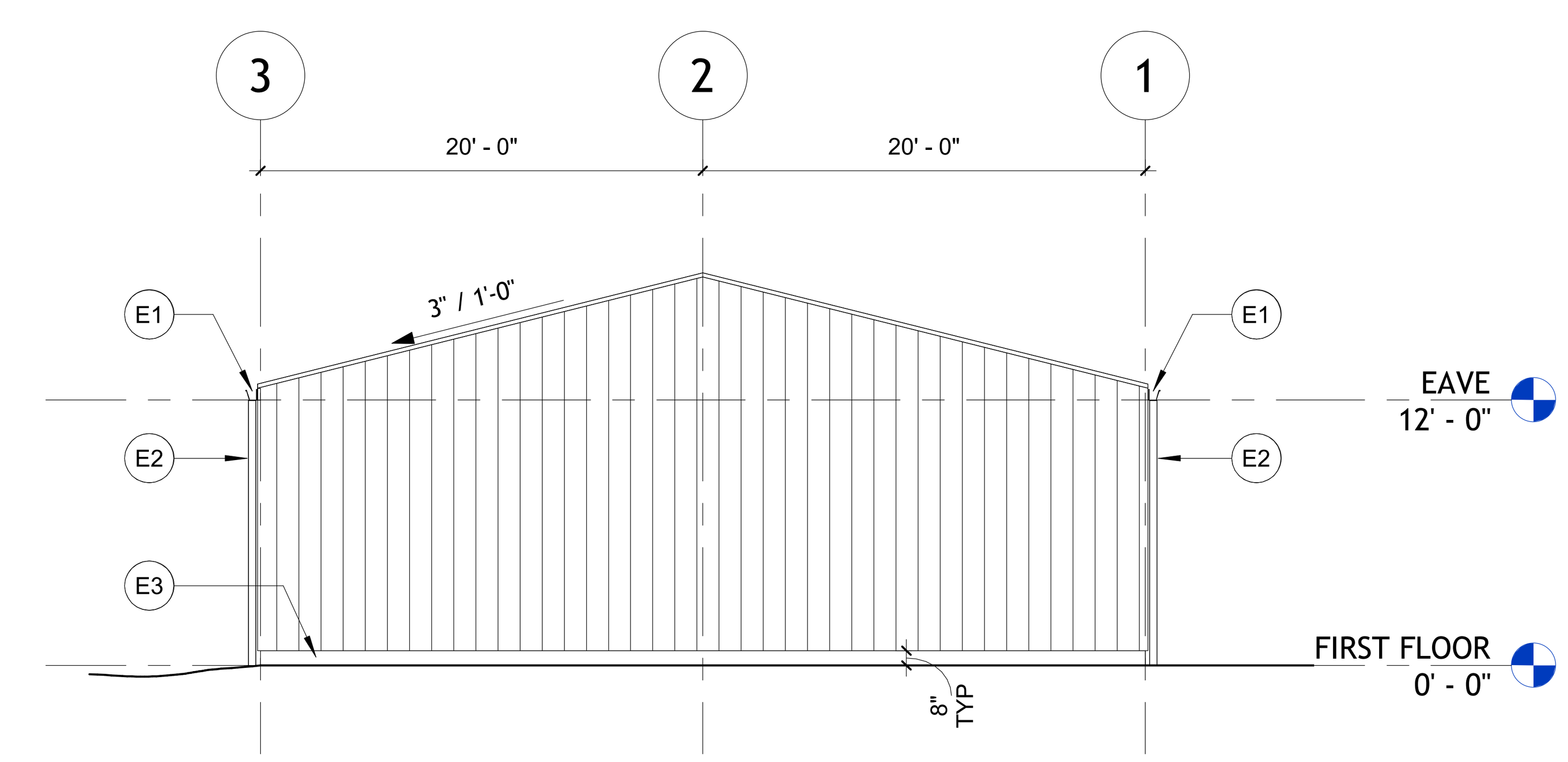
6 SOUTH ELEVATION
1/8" = 1'-0"



9 WEST ELEVATION
1/8" = 1'-0"



16 NORTH ELEVATION
1/8" = 1'-0"



19 EAST ELEVATION
1/8" = 1'-0"

PRELIMINARY- NOT FOR CONSTRUCTION

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Client Name
CLINTON COUNTY

Project Name
LAW CENTER PARKING LOT

Location / Description
630 N 3RD ST.
CLINTON, IA 52732

Revisions

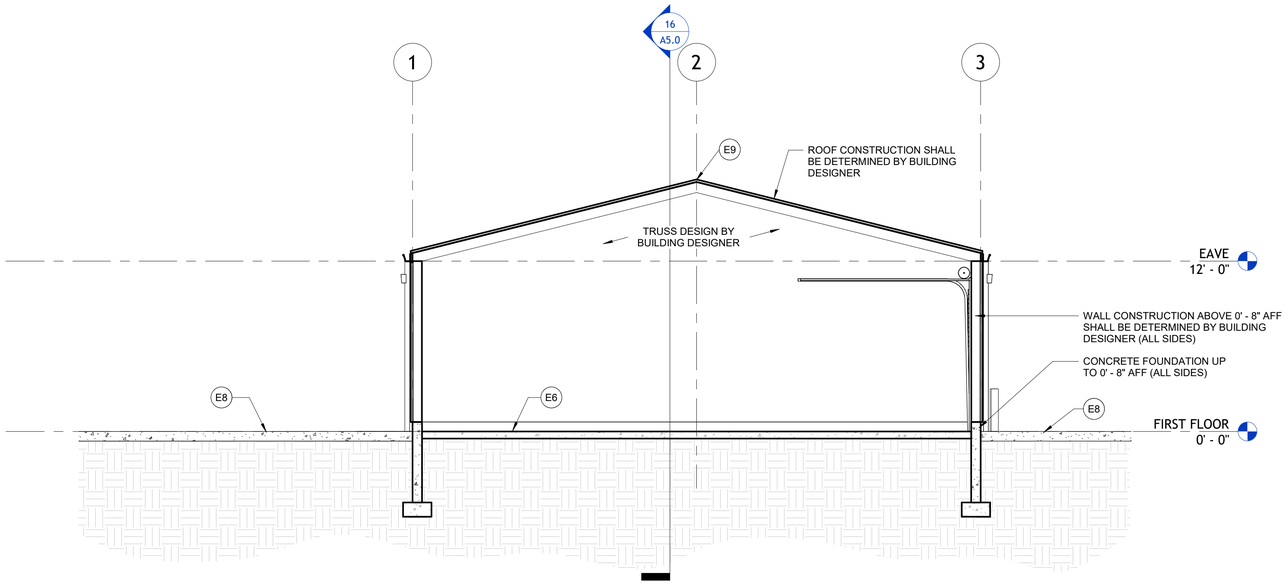
Rev	Description	Date

Project Number 24036 Issued for Bidding 10/22/2024
Project Manager MEM Issued for Construction
Autodesk Docs://24036 - Clinton County Maintenance Garage/A-24036_Clinton County Maintenance Garage.rvt 10/22/2024 2:52:17 PM
All scales based on 22x34 full sheet size.

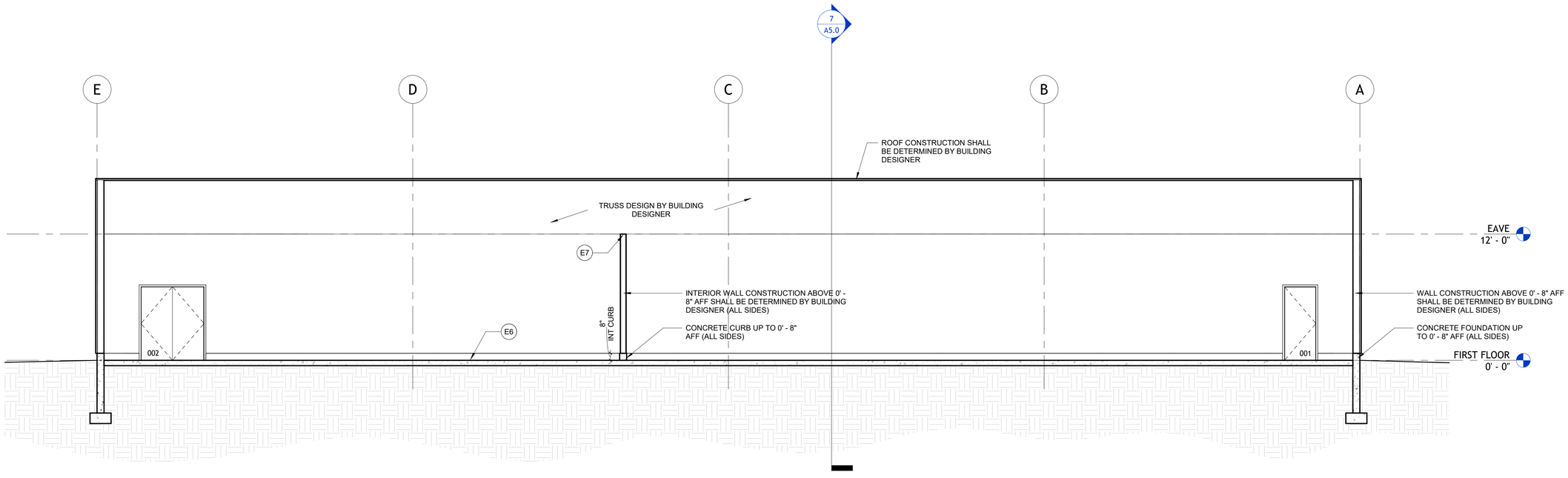
Sheet Title

BUILDING ELEVATIONS AND DOOR SCHEDULE

A4.0



7 NORTH/SOUTH BUILDING SECTION
3/16" = 1'-0"



16 EAST/WEST BUILDING SECTION
3/16" = 1'-0"

PRELIMINARY- NOT FOR CONSTRUCTION

BUILDING ELEVATION AND SECTION KEY NOTES

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- E8 SITE PAVEMENT. SEE CIVIL PLANS.
- E9 PROVIDE A RIDGE VENT ALONG THE GABLE PEAK.

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PARKING LOT

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Revisions

Rev	Description	Date
	Issued for Bidding	10/22/2024
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Project Number 24036
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10/22/2024 2:52:17 PM
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All scales based on 22x34 full sheet size.

Sheet Title

BUILDING SECTIONS

A5.0

ABBREVIATIONS

AB	ANCHOR BOLT
ADD'L	ADDITIONAL
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATING
ALUM	ALUMINUM
ARCH	ARCHITECT/ARCHITECTURAL
AVG	AVERAGE
B/	BOTTOM OF
BB	BOND BEAM
BL	BRICK LEDGE
BLDG(S)	BUILDING(S)
BOT	BOTTOM
BRG	BEARING
BRK	BRICK
BTWN	BETWEEN
CANT	CANTILEVER
C-C	CENTER TO CENTER
CF	COLD-FORMED
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CL	CENTERLINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CTR(D)	CENTER, CENTERED
CTR	CENTER
CY	CUBIC YARD
DEG	DEGREE
DEFL	DEFLECTION
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIST	DISTANCE
DL	DEAD LOAD
DWG(S)	DRAWING(S)
E	EAST
EA	EACH
EE	EACH END
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
EMBED	EMBEDMENT
ENGR	ENGINEER
EPY	EPOXY
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EXPOSED STRUCTURE
ETR	EXISTING TO REMAIN
EX	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
EW	EACH WAY
F/	FACE OF
FD	FLOOR DRAIN
FDN	FOUNDATION
F-F	FACE TO FACE
FF	FAR FACE
FFE	FINISH FLOOR ELEVATION
FIN	FINISHED
FL	FLOWLINE
FLR	FLOOR
FRP	FIBER REINFORCED PLASTIC
FS	FAR SIDE
FT	FOOT/FEET
FTG	FOOTING
FV	FIELD VERIFY
GA	GAGE OR GAUGE
GC	GENERAL CONTRACTOR
GALV	GALVANIZED
GLULAM	GLUE LAMINATED WOOD
GRD	GRADE
GYP	GYPSUM

HEF	HORIZONTAL EACH FACE
HIF	HORIZONTAL INSIDE FACE
HK	HOOK
HM	HOLLOW METAL
HOF	HORIZONTAL OUTSIDE FACE
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHOR
HSS	HOLLOW STRUCTURAL SECTION
HT	HEIGHT
ID	INSIDE DIAMETER/INSIDE DIMENSION
I.F.	INSIDE FACE
IJ	ISOLATION JOINT
IMP	INSULATED METAL PANEL
IN	INCHES
INFO	INFORMATION
INSP	INSPECTION
INSUL	INSULATION
INT	INTERIOR
JT	JOINT
K	KIPS
KLF	KIPS PER LINEAL FOOT
KIP	1 KIP = 1,000 LBS
KSF	KIPS PER SQUARE FOOT
L	ANGLE
LB/#	POUND
LF	LINEAL FOOT
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
LW	LIGHT WEIGHT
LVL	LAMINATED VENEER LUMBER
MAS	MASONRY
MAX	MAXIMUM
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR(S)	MANUFACTURER(S)
MIN	MINIMUM
MISC	MISCELLANEOUS
MP	METAL PANEL
MS	METAL STUD(S)
N	NORTH
N/A	NOT APPLICABLE, NOT AVAILABLE
NF	NEAR FACE
NO or #	NUMBER
N.S.	NEAR SIDE
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
O.F.	OUTSIDE FACE
OH	OVERHEAD
OPG	OPENING
OPP	OPPOSITE
OSB	ORIENTED STRAND BOARD
PAF	POWDER-ACTUATED FASTENER
PC	PRECAST/PRESTRESSED CONCRETE
PCF	POUNDS PER CUBIC FOOT
PERF	PERFORATED
PERIM	PERIMETER
PERP	PERPENDICULAR
P/L	PROPERTY LINE
PL	PLATE
PLF	POUNDS PER LINEAL FOOT
PRELIM	PRELIMINARY
PROJ	PROJECTION
PROP	PROPOSED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT/PAINTED
PVMT	PAVEMENT
QTY	QUANTITY
RD	ROOF DRAIN
RDO	ROOF DRAIN OVERFLOW
REBAR	REINFORCING BAR
REF	REFERENCE

REINF	REINFORCING/REINFORCED
REM	REMAINDER
REQ	REQUIRED
REQ'S	REQUIREMENTS
REV	REVISION
RM	ROOM
RO	ROUGH OPENING
RP	RADIUS POINT
RTU	ROOFTOP UNIT
S	SOUTH
SB	SOIL BORING
SCH('D)	SCHEDULE/SCHEDULED
SD	SUB DRAIN
SDL	SUPERIMPOSED DEAD LOAD
SF	SQUARE FOOT
S.F.	SPLIT FACE
SIM	SIMILAR
SLL	SUPERIMPOSED LIVE LOAD
SOG	SLAB ON GRADE
SP	SPACE
SPEC(S)	SPECIFICATION(S)
SPEC'D	SPECIFIED
SQ	SQUARE
SS	STAINLESS STEEL
STAG	STAGGERED
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STR	STRUCTURE/STRUCTURAL
SY	SQUARE YARD
SYM	SYMBOL
T/	TOP OF
TEMP	TEMPORARY
TERM	TERMINATE
T/GRACE BEAM	TOP OF GRADE BEAM
THK	THICK/THICKNESS
TPG	TOPPING
TRANS	TRANSVERSE
TRTD	TREATED
TS	TUBE STEEL
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES, INC.
UNO	UNLESS NOTED OTHERWISE
VAR	VARIES
VEF	VERTICAL EACH FACE
VERT	VERTICAL
VIF	VERTICAL INSIDE FACE
VOF	VERTICAL OUTSIDE FACE
W	WEST
W/	WITH
W/O	WITHOUT
WP	WORKING POINT
WD	WOOD
WT	WEIGHT
WWF	WELDED WIRE FABRIC
X	CROSS
XP	EXPOSED
XSTG	EXTRA STRONG
XXSTG	DOUBLE EXTRA STRONG
YD	YARD
INDUSTRY STANDARD AND CODES	
ACI	AMERICAN CONCRETE INSTITUTE
ADA	AMERICANS WITH DISABILITIES ACT
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
APA	THE ENGINEERED WOOD ASSOCIATION
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
IBC	INTERNATIONAL BUILDING CODE
ICC	INTERNATIONAL CODE COUNCIL
IEBC	INTERNATIONAL EXISTING BUILDING CODE
NDS	NATIONAL DESIGN STANDARD
OSHA	OCCUPATIONAL SAFETY AND HEALTH ASSOCIATION

GENERAL SYMBOLS

- CONCRETE (CAST IN PLACE OR PRECAST)
- CONCRETE BLOCK (CMU)
- EARTH
- FACE BRICK
- FREE DRAINING FILL OR GRAVEL (DESIGNATE ON DRAWINGS)
- PLYWOOD
- RIGID INSULATION
- ROUGH LUMBER
- STRUCTURAL STEEL

GENERAL SYMBOLS

- EXTERIOR ELEV — 1 / A1
- INTERIOR ELEV — 1 / A1
- BUILDING SECTIONS — 1 / A1
- WALL SECTIONS — 1 / A1
- DETAILS — 1 / A1
- REVISION NOTE — 1
- PLAN NOTE (KEY NOTE) — 1
- DEMOLITION NOTE — A
- COLUMN GRID (LETTERS VERT. NUMBERS HORIZ) — A

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ABBREVIATIONS

S0.1

MAINTENANCE BUILDING

A. BUILDING CODES:
1. GOVERNING BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE.
2. REFERENCED CODES:
   a. ASCE 7-16 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
3. RISK CATEGORY: II
4. EXPOSURE CATEGORY: C

B. DEAD LOADS:
1. ROOF UNIFORM DEAD LOAD: BY BUILDING DESIGNER.

C. LIVE LOADS:
1. UNIFORM ROOF LIVE: 20 PSF

D. SNOW LOADS:
1. GROUND SNOW LOAD: 25 PSF
2. SNOW IMPORTANCE FACTOR, I_s: 1.0
3. SNOW EXPOSURE FACTOR, C_e: 1.0
4. THERMAL FACTOR, C_t: 1.2, UNHEATED OR OPEN AIR
5. FLAT-ROOF SNOW LOAD, p_f: 21.0 PSF
6. ROOF SLOPE FACTOR, C_s: 1.0
7. SLOPED-ROOF SNOW LOAD, P_s: 21.0 PSF
8. UNBALANCED SNOW:
   a. WINDWARD ROOF PROJECTED UNIFORM LOAD: 6.3 PSF
   b. LEEWARD ROOF PROJECTED UNIFORM LOAD: 21 PSF
   c. LEEWARD ROOF PROJECTED SURCHARGE LOAD: 11.5 PSF
   d. SURCHARGE WIDTH: 7.15 FT

E. WIND LOADS:
1. ULTIMATE (BASIC) WIND SPEED (3 SECOND GUST), V: 108 MPH
2. ALLOWABLE STRESS DESIGN (ASD) WIND SPEED, V_{asd}: 83.7 MPH
3. TOPOGRAPHIC FACTOR, K_{zt}: 1.0
4. DIRECTIONALITY FACTOR, K_d: 0.85
5. GUST EFFECT FACTOR: 0.85
6. INTERNAL PRESSURE COEFFICIENT: ±0.55, PARTIALLY ENCLOSED
7. COMPONENTS AND CLADDING GROSS, ULTIMATE PRESSURES: POSITIVE PRESSURES ACT TOWARD THE STRUCTURE, NEGATIVE PRESSURES ACT AWAY FROM THE STRUCTURE. MULTIPLY TABULATED VALUES BY 0.6 TO CONVERT TO SERVICE-LEVEL PRESSURES.

F. SEISMIC LOADS:
1. SEISMIC IMPORTANCE FACTOR, I_E: 1.00, CATEGORY II
2. SITE CLASS: D, ASSUMED
3. SPECTRAL RESPONSE COEFFICIENTS.
   a. S_s: 0.097
   b. S_1: 0.062
   c. S_{DS}: 0.103
   d. S_{D1}: 0.099
4. SEISMIC DESIGN CATEGORY: B
5. BASIC SEISMIC FORCE-RESISTING SYSTEM: BY BUILDING DESIGNER.
6. DESIGN BASE SHEAR: BY BUILDING DESIGNER.
7. SEISMIC RESPONSE COEFFICIENTS(S), C_s: BY BUILDING DESIGNER.
8. RESPONSE MODIFICATION COEFFICIENT(S), R: BY BUILDING DESIGNER.
9. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

G. SOIL LOADS:
1. DESIGN LATERAL SOIL LOAD: 55 PCF AT REST
2. ALLOWABLE PASSIVE PRESSURE: 300 PCF
3. SOIL UNIT WEIGHT: 115 PCF
4. DESIGN COEFFICIENT OF FRICTION: 0.35
5. ASSUMED ALLOWABLE SOIL BEARING PRESSURE: 1500 PSF
6. BOTTOM OF EXTERIOR FOOTINGS SHALL EXTEND A MINIMUM OF 4'-0" BELOW FINAL GRADE (6'-0" BELOW FINAL GRADE IN UNHEATED STRUCTURES).
7. OWNER IS RESPONSIBLE FOR VERIFICATION OF SOIL CONDITIONS FOR CAPABILITY OF SUPPORTING 1500 PSF SOIL BEARING PRESSURE.

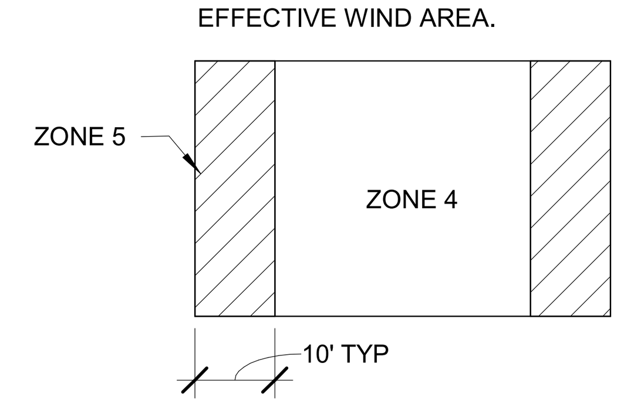
H. ROOF RAIN LOAD DATA:
1. RAIN INTENSITY, I, 15 MIN: 6.94 IN/HR
2. RAIN INTENSITY, I, 60 MIN: 3.33 IN/HR

J. MISCELLANEOUS:
1. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH DRAWINGS FOR ALL OTHER DISCIPLINES. CONTRACTOR IS RESPONSIBLE FOR COORDINATING REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.
2. NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
3. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBER SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
4. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON THE STRUCTURAL FRAMING, INCLUDING SLABS ON GRADE. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.
5. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES.
6. DO NOT SCALE THESE DRAWINGS. USE DIMENSIONS SHOWN.
7. THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY FOR SUCH DEVIATION BY THE ENGINEER'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, ETC., UNLESS THE ARCHITECT HAS BEEN INFORMED OF SUCH DEVIATION AT THE TIME OF SUBMISSION AND THE ARCHITECT HAS GIVEN APPROVAL TO THE SPECIFIC DEVIATION.
8. ALL THINGS, WHICH IN THE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS, OR AMBIGUITIES IN THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. PLANS AND/OR SPECIFICATIONS WILL BE CORRECTED, OR WRITTEN INTERPRETATION OF THE ALLEGED DEFICIENCY, OMISSION, CONTRADICTION OR AMBIGUITY WILL BE MADE BY THE ARCHITECT BEFORE THE AFFECTED WORK PROCEEDS.
9. ALL DIMENSIONS SHALL BE CHECKED AGAINST REQUIREMENTS OF OTHER CONTRACT DOCUMENTS. FIELD VERIFY DIMENSIONS RELATING TO EXISTING CONDITIONS PRIOR TO ORDERING MATERIALS AND FABRICATION.
10. WHERE DIMENSION OR WEIGHTS OF EQUIPMENT OR SYSTEMS ARE VARIABLE FROM MANUFACTURER TO MANUFACTURER,VERIFY DIMENSIONS AND WEIGHTS SHOWN ON DRAWINGS WITH SELECTED MANUFACTURER PRIOR TO ORDERING MATERIALS. NOTIFY STRUCTURAL ENGINEER OF DISCREPANCIES. DO NOT PLACE EQUIPMENT WHEN SHIPPING OR OPERATING WEIGHT EXCEEDS WEIGHT INDICATED ON STRUCTURAL DRAWINGS.
11. NO MODIFICATION, ALTERATION OR REPAIR SHALL BE MADE WITHOUT PRIOR REVIEW BY THE STRUCTURAL ENGINEER. SUBMIT DETAILS AND CALCULATIONS PREPARED BY A PROFESSIONALENGINEER, REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED AND EMPLOYED BY THE CONTRACTOR.

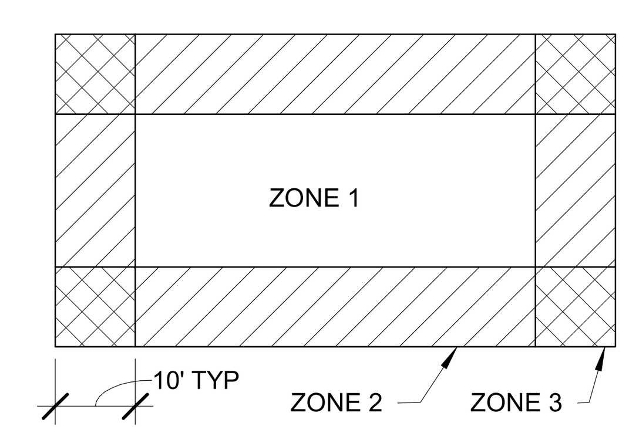
MINIMUM CONCRETE COVER PER ACI318	
CAST-IN-PLACE CONCRETE	MIN COVER, IN.
A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3
B. CONCRETE EXPOSED TO EARTH OR WEATHER:	
NO. 6 - NO. 18 BAR	2
NO. 5 BAR, W31 OR D31 WIRE, AND SMALLER	1 1/2
C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	
SLABS, WALLS, JOISTS:	
NO. 14 AND NO. 18 BARS	1 1/2
NO. 11 AND SMALLER	3/4
BEAMS, COLUMNS:	
PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS	1 1/2

BUILDING WALL PRESSURES		**10 S.F.**	**100 S.F.**	**500 S.F.**
NEGATIVE PRESSURES	ZONE 4	-36 PSF	-32 PSF	-29 PSF
	ZONE 5 (h≤60')	-42 PSF	-35 PSF	-29 PSF
POSITIVE PRESSURES	ZONES 4 & 5	+34 PSF	+30 PSF	+27 PSF
ROOF PRESSURES		**10 S.F.**	**50 S.F.**	**100 S.F.**
NEGATIVE PRESSURES	ZONE 1	-55 PSF	-37 PSF	-23 PSF
	ZONE 2	-77 PSF	-55 PSF	-46 PSF
	ZONE 3	-90 PSF	-63 PSF	-51 PSF
POSITIVE PRESSURES	ALL ZONES	+24 PSF	+20 PSF	+19 PSF

INTERPOLATION FOR EFFECTIVE WIND AREAS BETWEEN THOSE SHOWN IS PERMITTED. OTHERWISE USE PRESSURE FOR SMALLER EFFECTIVE WIND AREA.



WALL ELEVATION



ROOF PLAN

POST-INSTALLED ANCHOR EMBEDMENT REQUIREMENTS

EXPANSION ANCHOR EMBEDMENTS			
ANCHOR SIZE	MIN. EMBED	STD. EMBED	MAX. EMBED
3/8" Ø	1 5/8"	2 1/2"	N/A
1/2" Ø	2 1/4"	3 1/2"	4 3/4"
5/8" Ø	2 3/4"	4"	5 1/2"
3/4" Ø	3 1/4"	4 3/4"	6 1/2"

REFERENCE PRODUCT HILTI KWIK BOLT 3.

SLEEVE ANCHOR EMBEDMENTS	
ANCHOR SIZE	STD. EMBED
3/8" Ø	1 1/4"
1/2" Ø	1 1/2"
5/8" Ø	2"

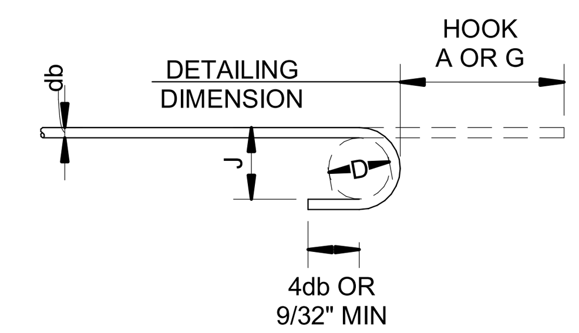
REFERENCE PRODUCT = HILTI HLC SLEEVE ANCHORS.

HILTI HIT-HY 200 MAX ADHESIVE ANCHORING SYSTEM W/ REBAR		
BAR SIZE	STD. EMBED	MAX. EMBED
#3	3 3/8"	7 1/2"
#4	4 1/2"	10"
#5	5 5/8"	12 1/2"

HILTI HIT-HY 200 MAX ADHESIVE ANCHORING SYSTEM W/ HAS RODS			
ROD DIA	MIN. EMBED	STD. EMBED	MAX. EMBED
1/2"	2 3/4"	4 1/2"	10"
5/8"	3 1/8"	5 5/8"	12 1/2"
3/4"	3 1/2"	6 3/4"	15"

POST-INSTALLED ANCHOR PRODUCT SUBSTITUTIONS SHALL BE APPROVED BY ENGINEER PRIOR TO USE.
EMBEDMENT DEPTHS INDICATED IN DETAILS GOVERN.

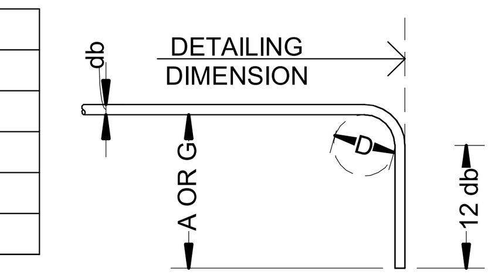
STANDARD HOOK DETAILS



180 DEG.

BAR SIZES	D= FINISHED INSIDE BEND DIAMETER	
	STANDARD HOOKS	STIRRUP/TIE HOOKS
#3, #4, #5	6 db	4 db
#6, #7, #8	6 db	6 db
#9, #10, #11	8 db	8 db
#14, #18	10 db	10 db

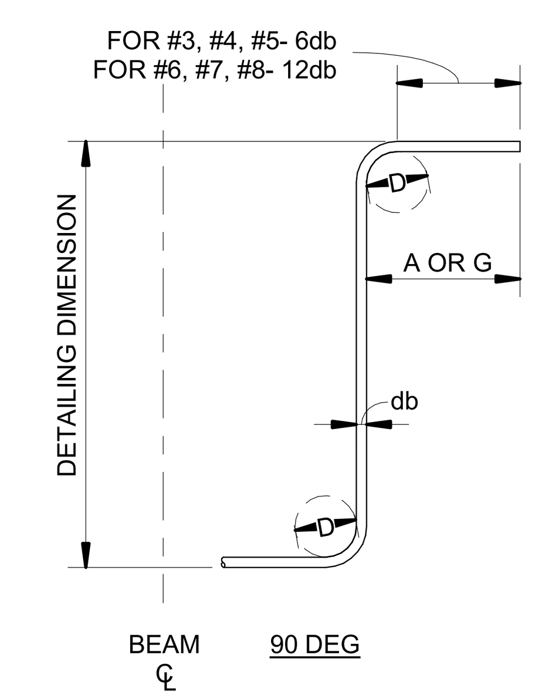
db = NOMINAL BAR DIAMETER



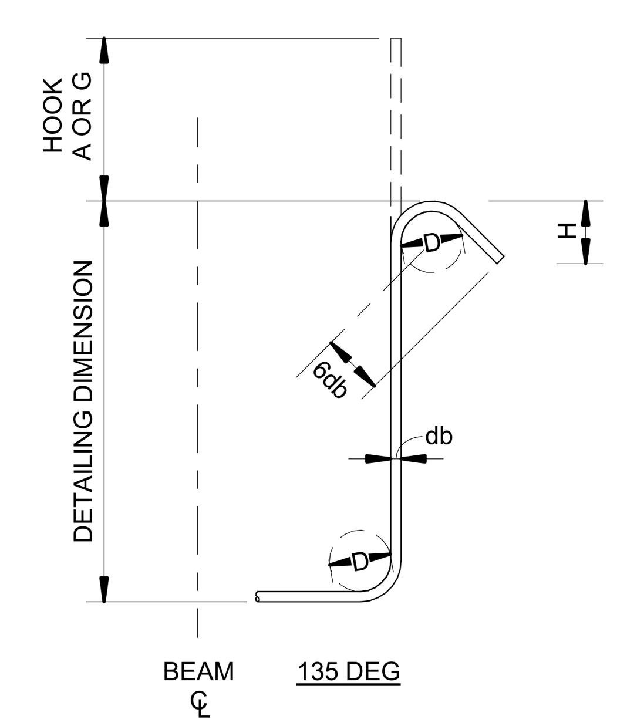
90 DEG.

BAR SIZE	DIMENSIONS OF STANDARD 180- DEG HOOKS, ALL GRADES			DIMENSIONS OF STANDARD 90- DEG HOOKS, ALL GRADES	
	A OR G	J	D	A OR G	D
#3	5"	3"	2 1/4"	6"	2 1/4"
#4	6"	4"	3"	8"	3"
#5	7"	5"	3 3/4"	10"	3 3/4"
#6	8"	6"	4 1/2"	1'-0"	4 1/2"
#7	10"	7"	5 1/4"	1'-2"	5 1/4"
#8	11"	8"	6"	1'-4"	6"
#9	1'-3"	11 3/4"	9 1/2"	1'-7"	9 1/2"
#10	1'-5"	1'-1 1/4"	10 3/4"	1'-10"	10 3/4"
#11	1'-7"	1'-2 3/4"	12"	2'-0"	12"
#14	2'-3"	1'- 9 3/4"	18 1/4"	2'-7"	18 1/4"
#18	3'-0"	2'-4 1/2"	24"	3'-5"	24"

D= BEND DIAMETER

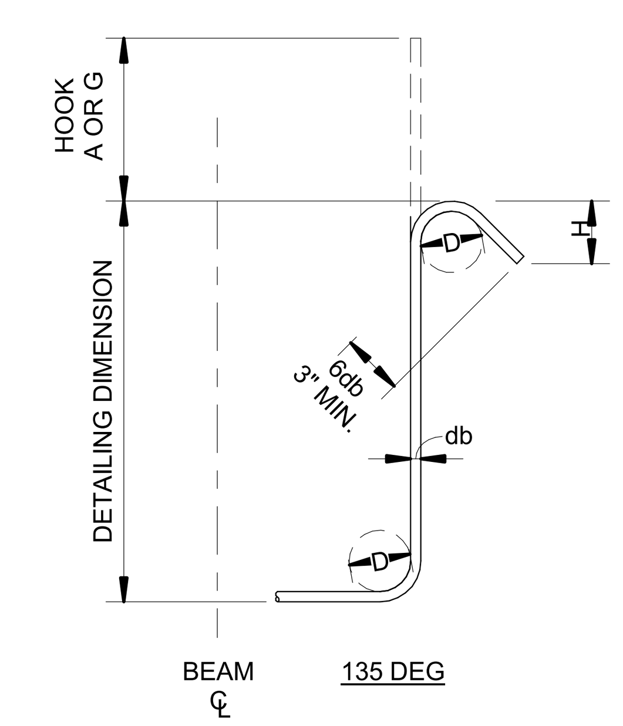


90 DEG



135 DEG

STIRRUP HOOKS
(TIE BENDS SIMILAR)



135 DEG

SEISMIC STIRRUP/ TIE

BAR SIZE	D	90 DEG	135 DEG	
		A OR G	A OR G	APPROX. H
#3	1 1/2"	4"	4"	2 1/2"
#4	2"	4 1/4"	4 1/2"	3"
#5	2 1/2"	6"	5 1/2"	3 3/4"
#6	4 1/2"	1'-0"	7 3/4"	4 1/2"
#7	5 1/4"	1'-2"	9"	5 1/4"
#8	6"	1'-4"	10 1/4"	6"

135 DEG SEISMIC HOOK			
SIZE	D	A OR G	APPROX. H
#3	1 1/2"	4 1/4"	3"
#4	2"	4 1/2"	3"
#5	2 1/2"	5 1/2"	3 3/4"
#6	4 1/2"	7 3/4"	4 1/2"
#7	5 1/4"	9"	5 1/4"
#8	6"	10 1/4"	6"

REINFORCING STEEL LAPS
MAINTAIN CONTINUITY OF REINFORCING WITH STAGGERED LAP SPLICES. REFER TO THE TYPICAL CORNER REINFORCING, WALL AND FOOTING STEP DETAILS. REINFORCING LAP SPLICES SHALL BE IN ACCORDANCE WITH THE CHART BELOW. SPLICE LENGTHS ARE SPECIFIED IN INCHES.

CONCRETE STRENGTH	SPLICE TYPE	#4	#5	#6	#7	#8	#9
3000 PSI	CLASS A TOP	29	36	43	63	72	81
	CLASS A	22	28	33	48	55	62
	CLASS B TOP	38	47	56	81	93	105
	CLASS B	29	36	43	63	72	81
4000 PSI	CLASS A TOP	25	31	37	54	62	70
	CLASS A	19	24	29	42	48	54
	CLASS B TOP	33	41	49	71	81	91
	CLASS B	25	31	37	54	62	70

NOTES:
1. CLASS A LAP: USE ONLY WHERE SPECIFIED.
2. CLASS B LAP: USE UNLESS NOTED OTHERWISE.
3. TOP BARS: HORZIONTAL REINFORCEMENT WITH MORE THAN 12 IN OF FRESH CONCRETE IS PLACED BELOW EXCEPT WALL REINFORCEMENT.
4. TABULATED VALUES ARE BASED UPON A MINIMUM REINFORCING BAR YIELD STRENGTH OF 60,000 PSI AND NORMAL WEIGHT CONCRETE.
5. CLEAR SPACING BETWEEN BARS AND CLEAR COVER MUST BE EQUAL TO OR GREATER THAN TWO BAR DIAMETERS.
6. THESE SPLICE LENGTHS HAVE BEEN DEVELOPED IN ACCORDANCE WITH ACI 318.
7. THIS TABLE DOES NOT APPLY TO EPOXY-COATED REBAR.
8. FOR GRADE 80 REINFORCING BARS MULTIPLY TABULATED VALUES BY 1.53.
9. FOR LIGHTWEIGHT CONCRETE MULTIPLY TABULATED VALUES BY 1.33.

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Client Name
CLINTON COUNTY

Project Name
LAW CENTER PARKING LOT

Location / Description
630 N 3RD ST.
CLINTON, IA 52732

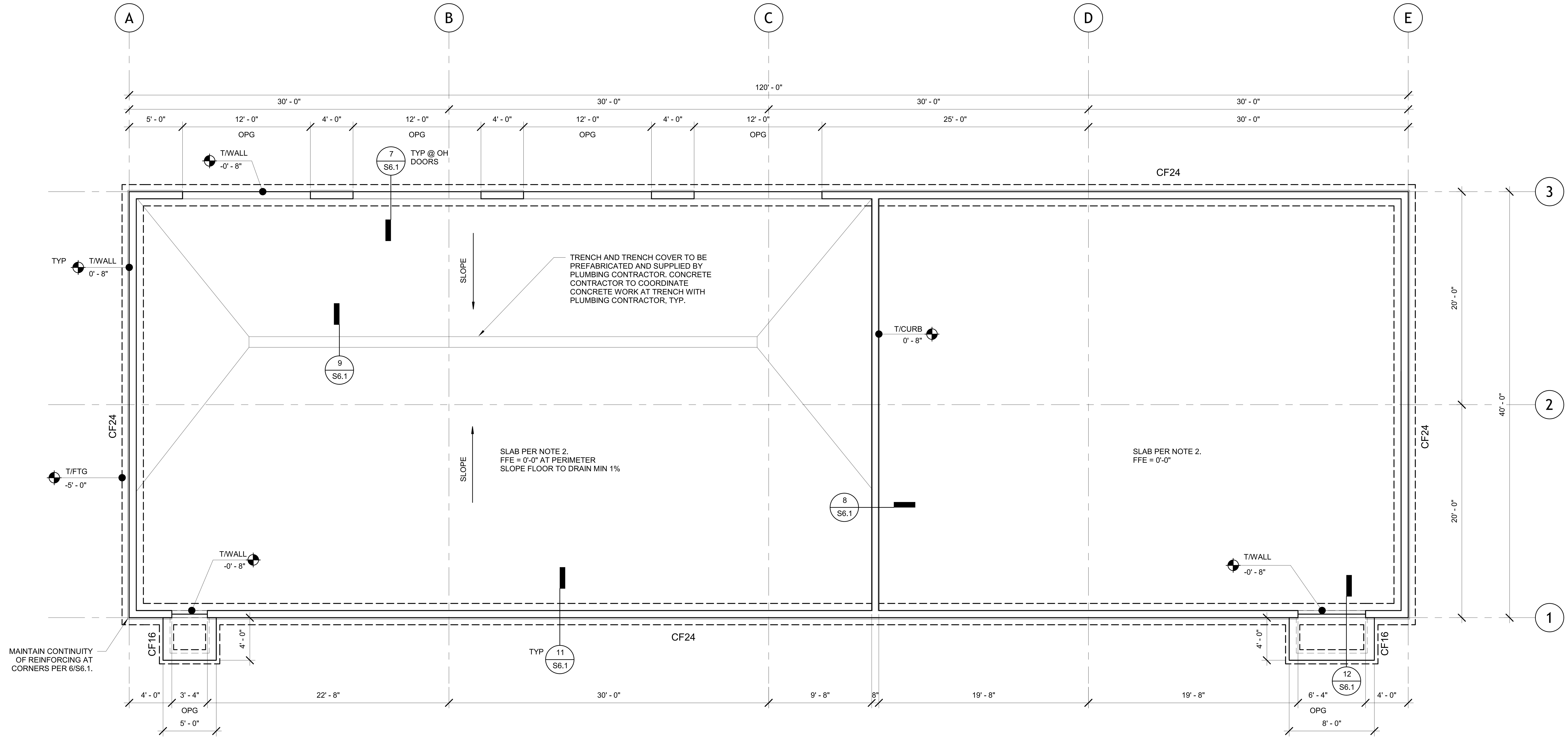
Revisions

Rev	Description	Date
	Issued for Bidding	10/22/2024
	Issued for Construction	

Project Number 24036
Project Manager MEM

Sheet Title
STRUCTURAL NOTES

S0.2



1 MAINTENANCE BUILDING FOUNDATION PLAN

3/16" = 1'-0"

FOUNDATION PLAN NOTES:

1. SEE SHEET S0.1 FOR STRUCTURAL DESIGN CRITERIA. SEE SHEET S6.1 FOR TYPICAL FOUNDATION DETAILS.
2. FLOOR CONSTRUCTION: 6" CONCRETE SLAB-ON-GRADE ON 15 MIL VAPOR RETARDER OVER 12" COMPACTED GRANULAR FILL. REINFORCE SLAB WITH 6x6 W2.1xW2.1 WWF CTRD IN THE SLAB. DO NOT HARD TROWEL SLAB.
3. SLAB JOINTS PER 2/S6.1 SPACED AT 15'-0" MAX.
4. SUPERSTRUCTURE NOT BY ORIGIN DESIGN. BUILDING DESIGNER SHALL VERIFY FOUNDATION IS ADEQUATE FOR GRAVITY AND LATERAL LOADS AND IDENTIFY LOCATIONS FOR CAST-IN ANCHORS. CONTRACTOR SHALL ENSURE CAST-IN ANCHORS ARE COORDINATED WITH BUILDING PACKAGE AND INSTALLED BEFORE POURING FOUNDATIONS.
5. NO GEOTECHNICAL INVESTIGATION HAS BEEN PERFORMED FOR THIS PROJECT. VERIFY SUITABILITY OF SOILS BEFORE POURING FOOTINGS.

CONTINUOUS FOOTING SCHEDULE

MARK	WIDTH	THICKNESS	FOOTING REINFORCING
CF16	1' - 4"	1' - 0"	(2) #5
CF24	2' - 0"	1' - 0"	(3) #5

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Client Name
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Project Number 24036 — Issued for Bidding 10/22/2024
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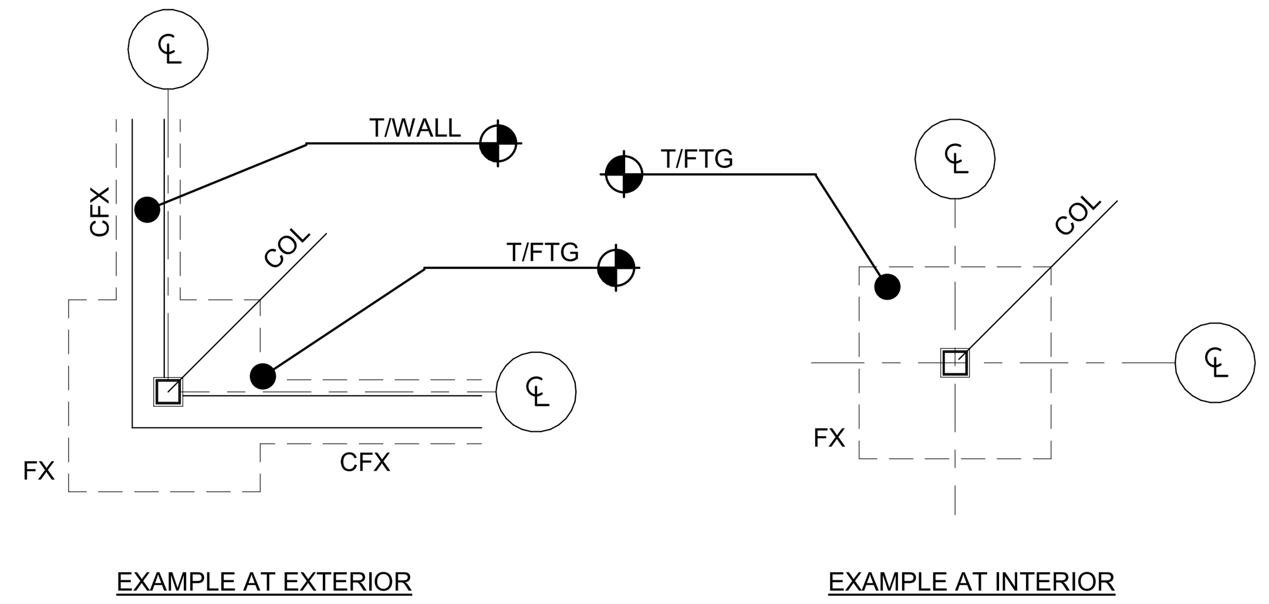
Sheet Title

FOUNDATION PLAN AND SCHEDULE

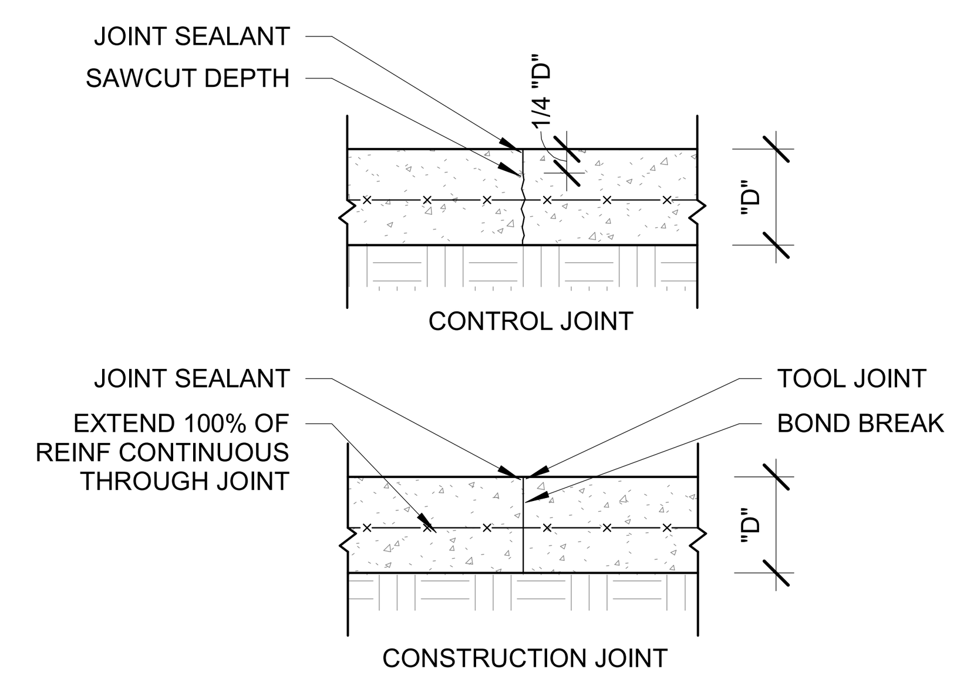
S1.1



FX = FOOTING MARK. SEE SCH FOR REINF & SIZE.
CFX = CONTINUOUS FOOTING MARK, SEE SCH FOR REINF.
COL = COLUMN MARK. SEE COL SCH FOR SIZE.
T/FTG = TOP OF FOOTING ELEVATION.
T/WALL = TOP OF WALL ELEVATION.

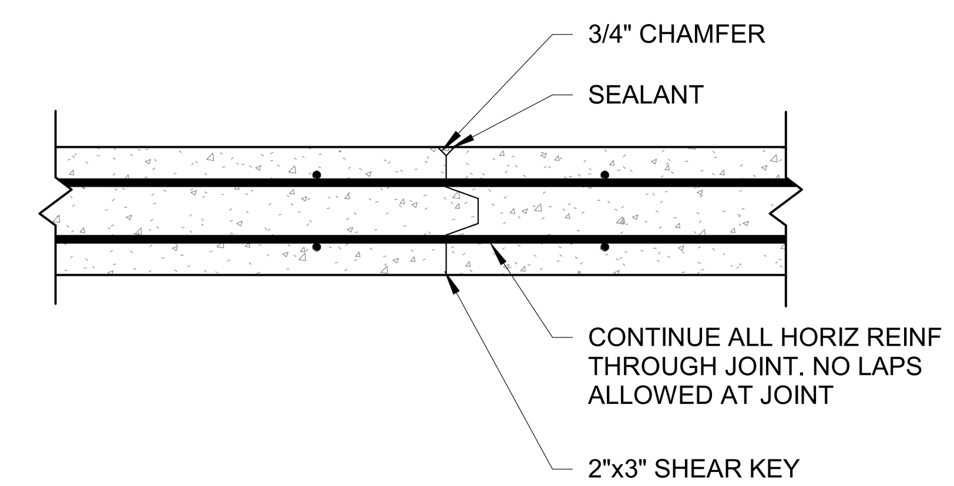
LEGEND

1 FOUNDATION PLAN LEGEND
1" = 1'-0"

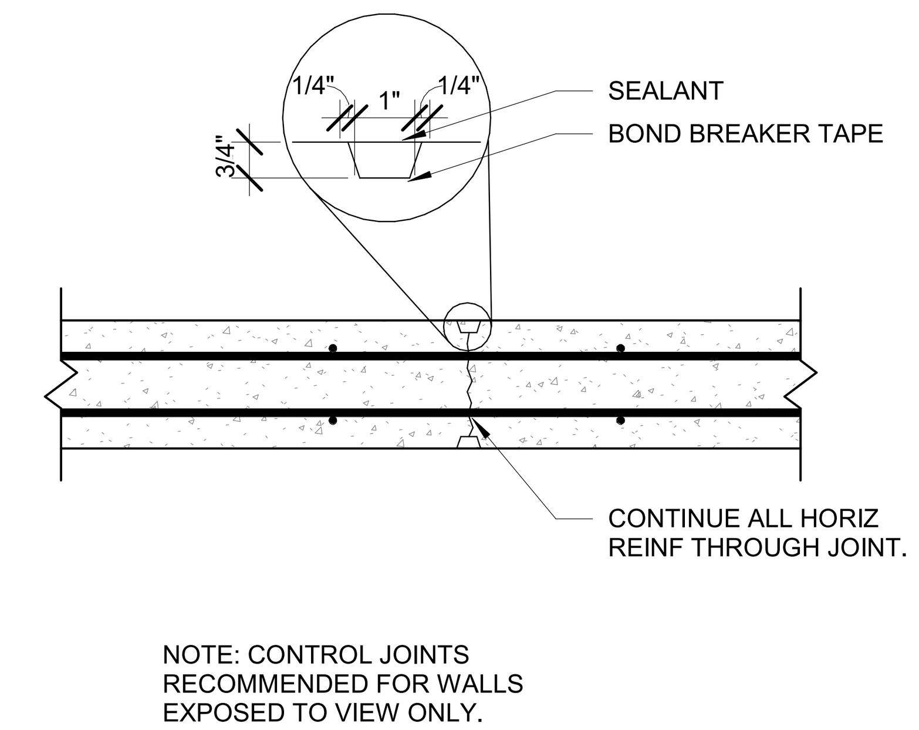


NOTE: CONTROL JOINTS AND CONSTRUCTION JOINTS MAY BE USED INTERCHANGEABLY AT CONTRACTORS OPTION.

2 TYPICAL SLAB ON GRADE JOINTS
1/2" = 1'-0"

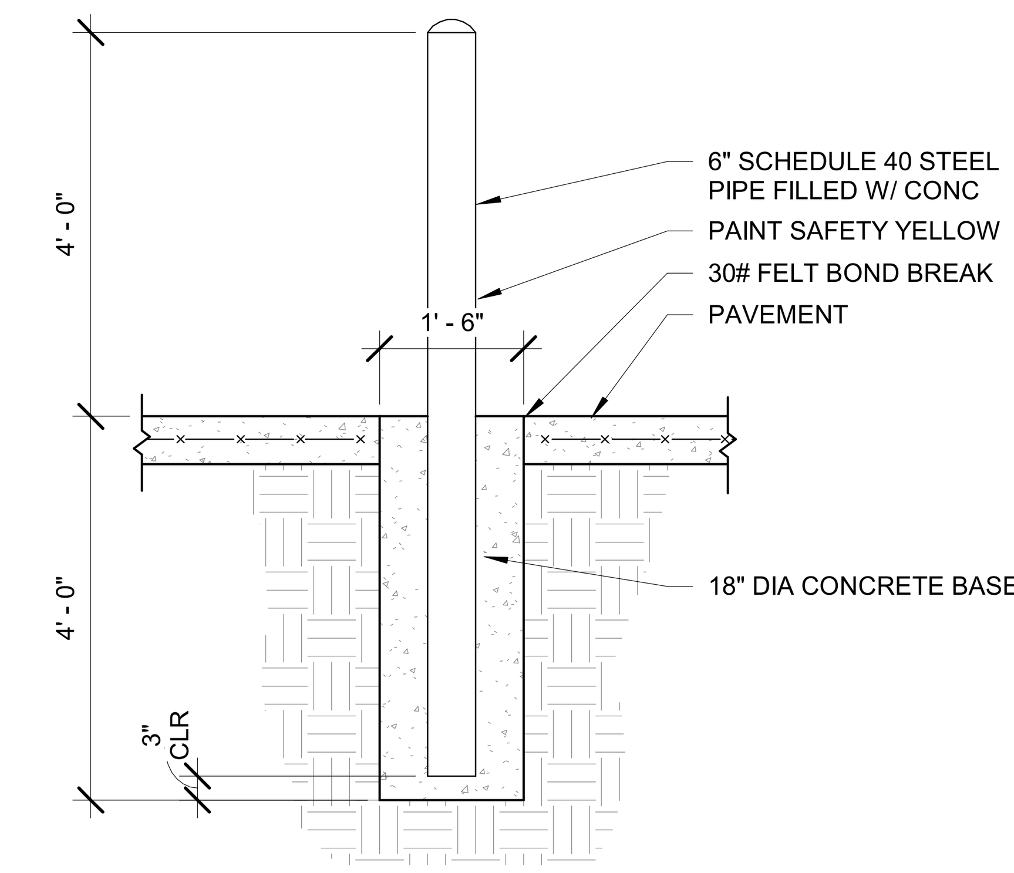


3 TYPICAL WALL CONSTRUCTION JOINT
1" = 1'-0"

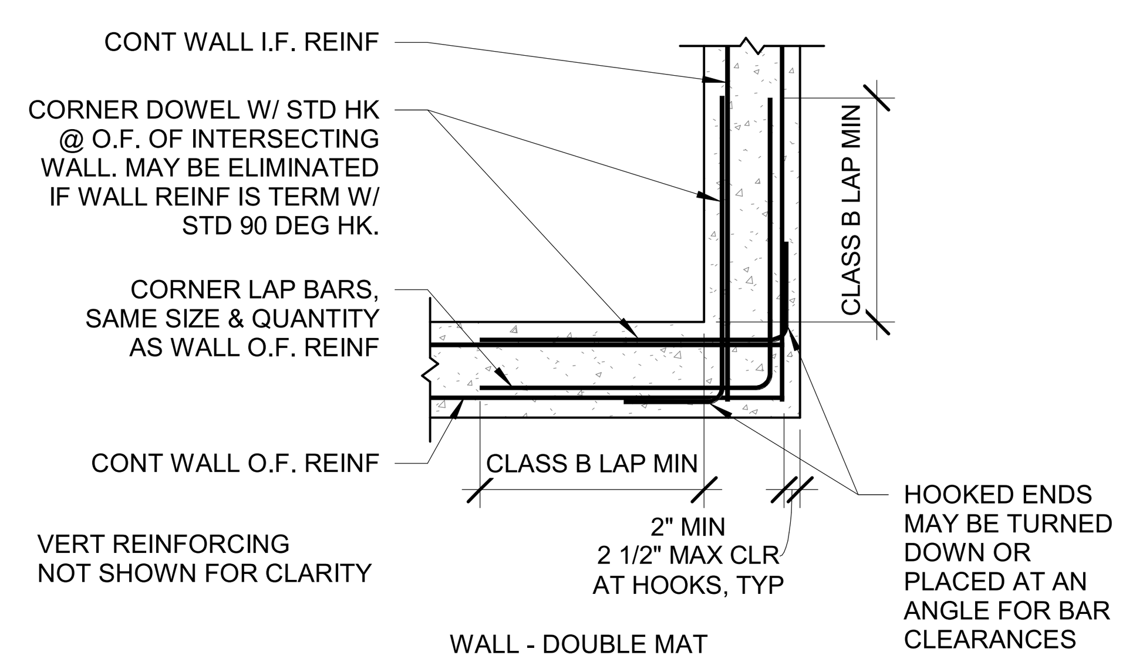


NOTE: CONTROL JOINTS RECOMMENDED FOR WALLS EXPOSED TO VIEW ONLY.

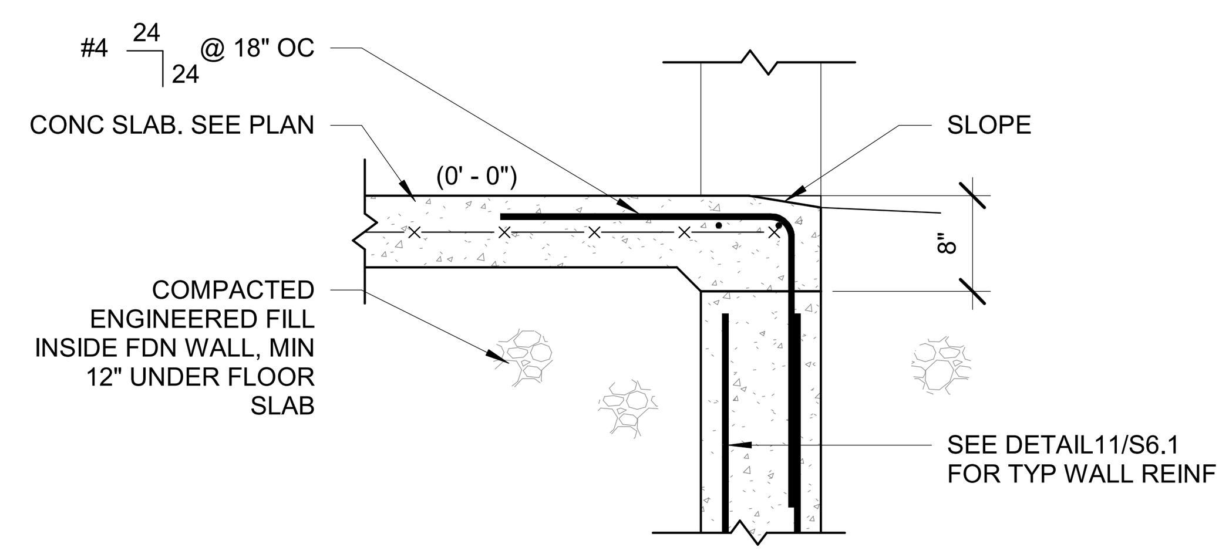
4 TYPICAL WALL CONTROL JOINT
1" = 1'-0"



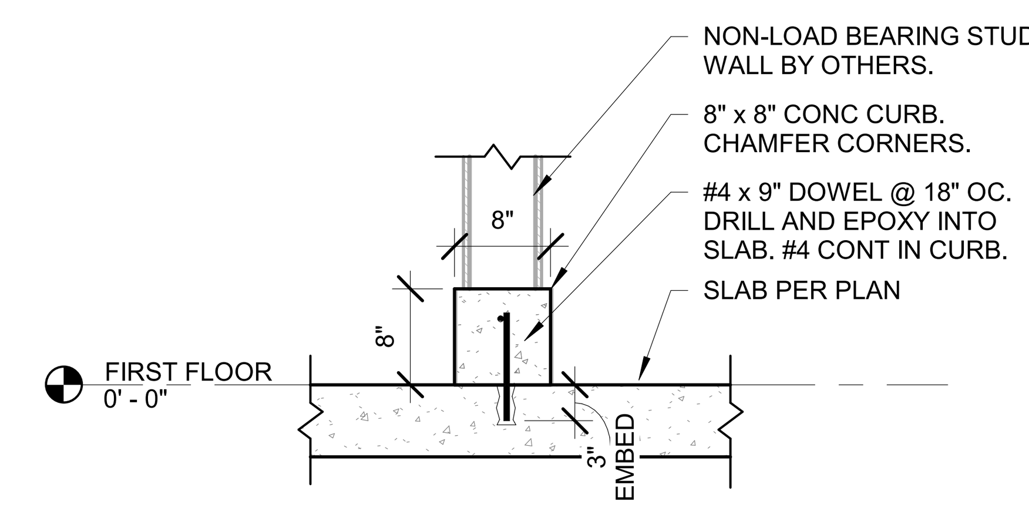
5 TYPICAL BOLLARD
1/2" = 1'-0"



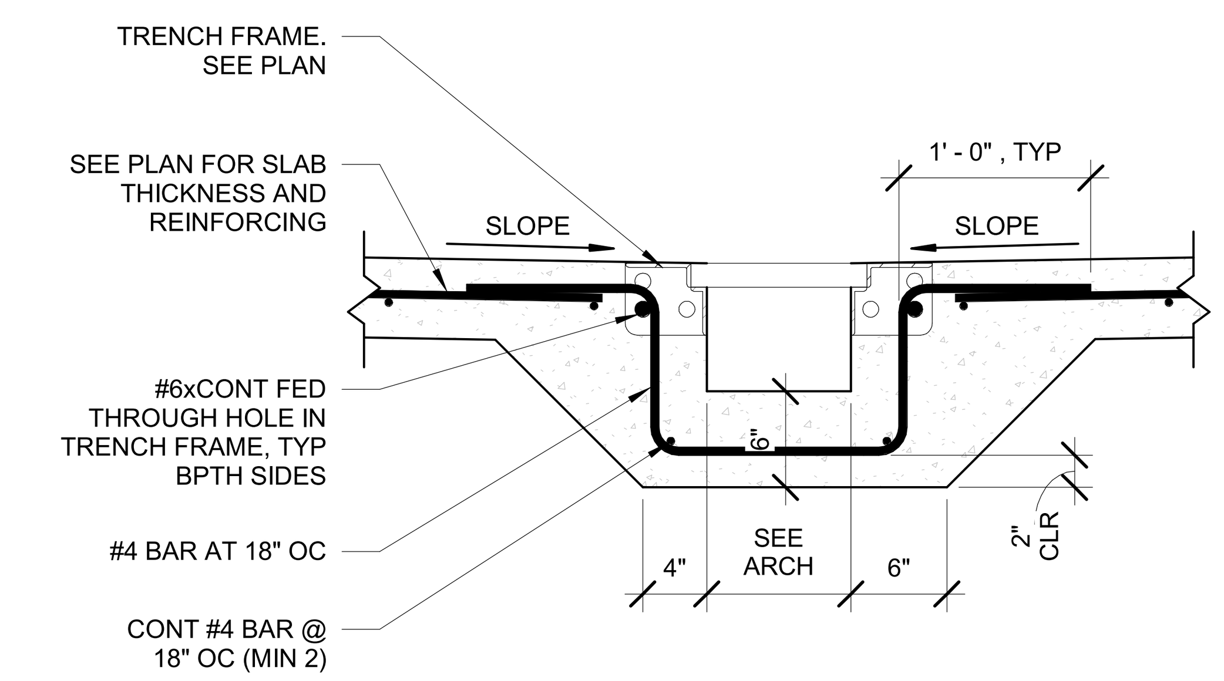
6 TYPICAL WALL CORNER REINFORCING (DOUBLE MAT)
1/2" = 1'-0"



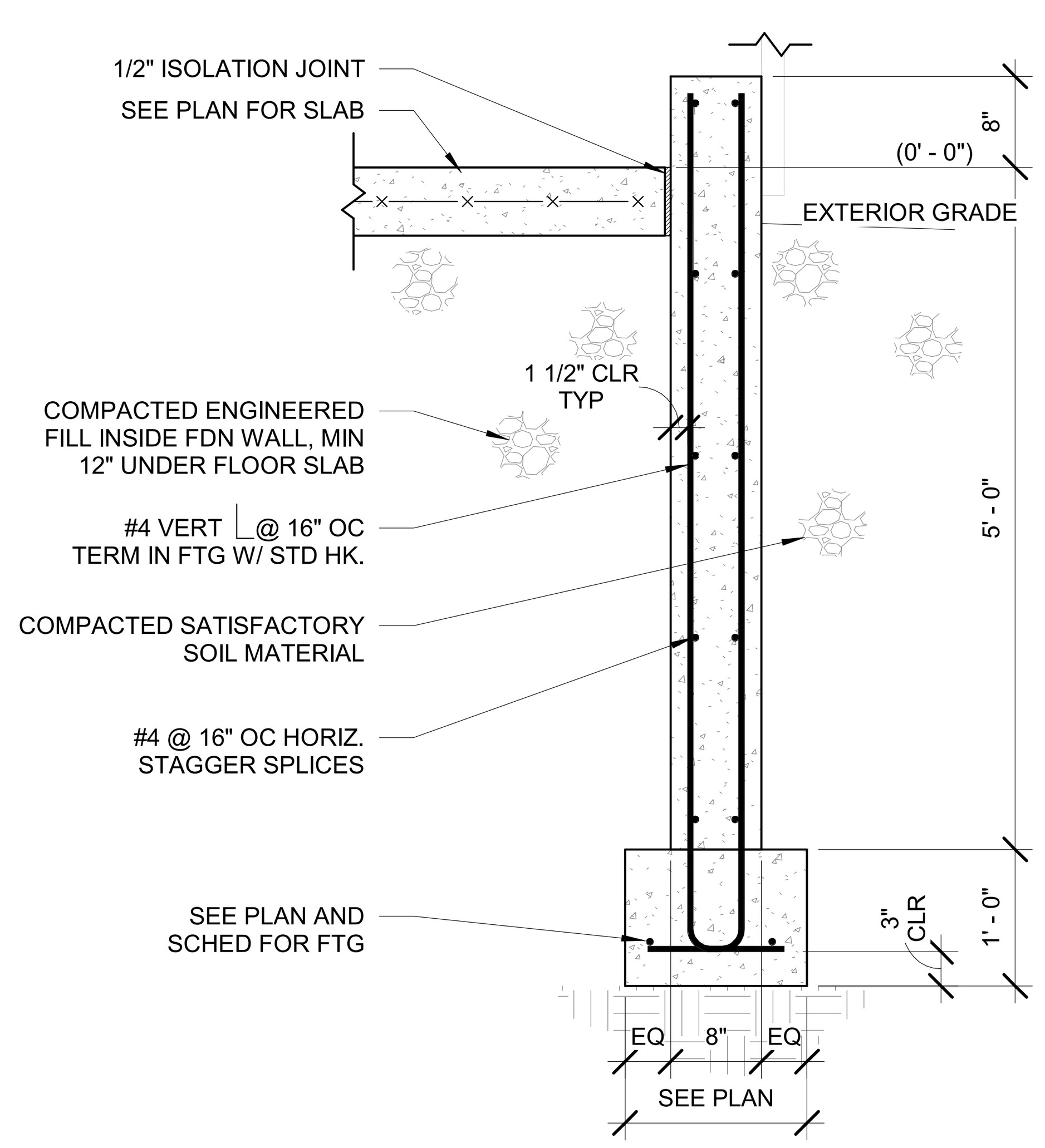
7 TYPICAL FOUNDATION SECTION AT O.H. DOORS
3/4" = 1'-0"



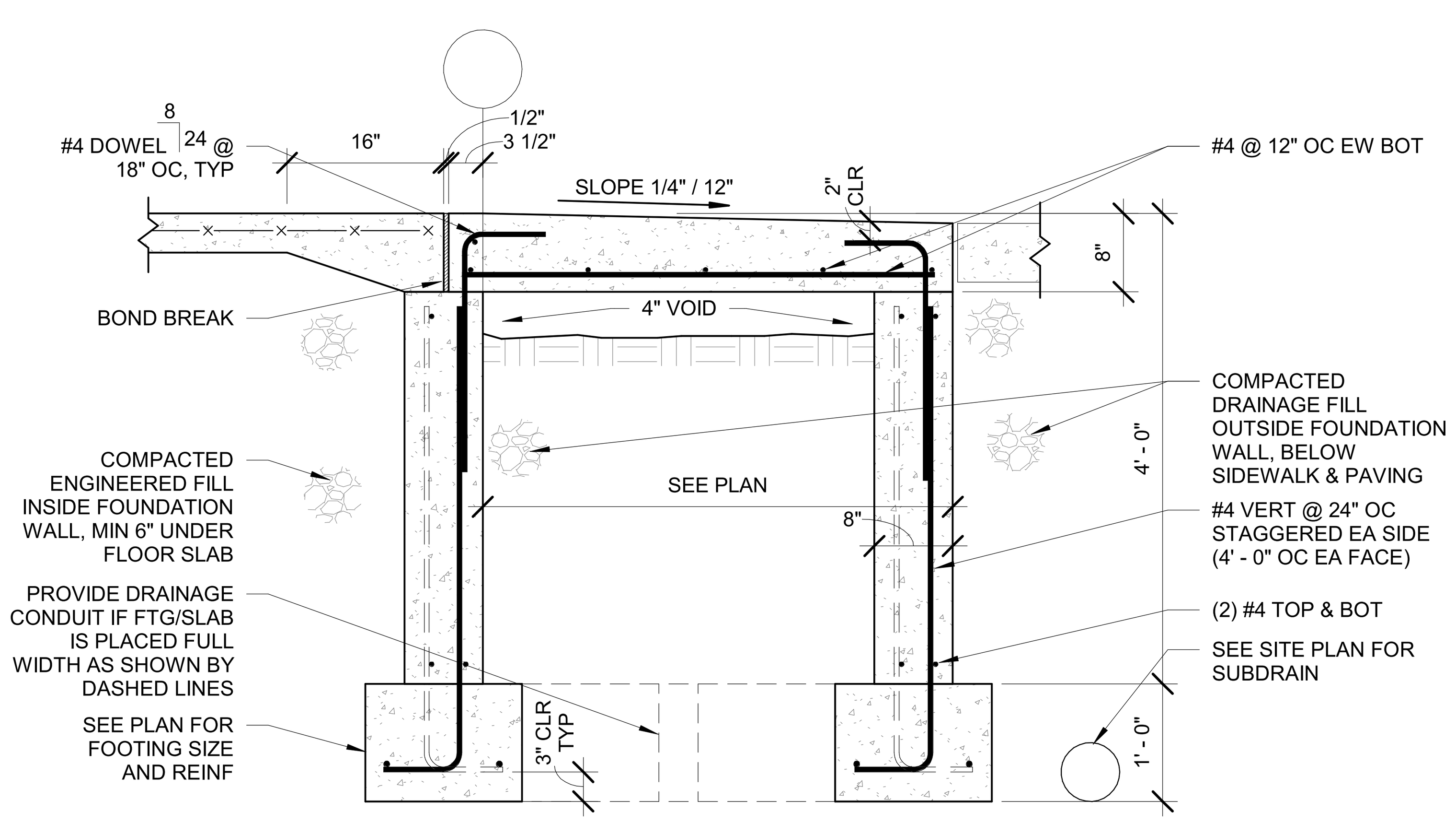
8 CURB SECTION
3/4" = 1'-0"



9 TYPICAL TRENCH DRAIN DETAIL
1" = 1'-0"



11 TYPICAL FOUNDATION WALL
3/4" = 1'-0"



12 TYPICAL STOOP SECTION
3/4" = 1'-0"

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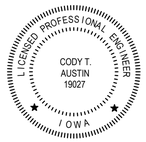
Revisions
Project Number 24036
Project Manager MEM

Sheet Title
TYPICAL STRUCTURAL DETAILS

S6.1

LAW CENTER
PARKING LOT

PROFESSIONAL SEALS



I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA

FOR ORIGIN DESIGN CO.

10/22/2024

CODY T. AUSTIN — DATE

PE 19027 — 12/31/2025

LICENSE # — RENEWAL DATE

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CONTACT

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137 MAIN ST, SUITE 100
DUBUQUE, IA 52001
V. (563)556-2464
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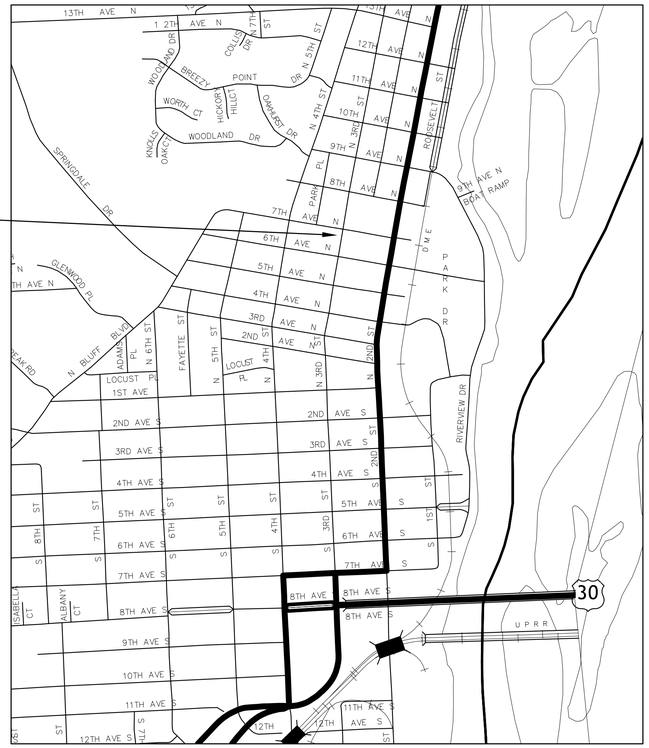
PROJECT LOCATION

PROJECT LOCATION



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SANITARY SEWER	
C5.01	SANITARY DETAILS
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PAVING AND STORM SEWER	
C6.01	PAVING AND STORM SEWER DETAILS
C6.10	STORM SEWER PLAN AND PROFILE
C6.20	PAVING PLAN

PROJECT INFORMATION

PROPERTY OWNER:
CLINTON COUNTY, IOWA

PROPOSED USAGE:
PARKING LOT

IMPERVIOUS AREA:
0.54 ACRES

TOTAL AREA:
0.68 ACRES

ZONING CLASSIFICATION:
R-1C

PARKING SPACES PROVIDED:
50 STALLS PLUS 2 ADA

UTILITY NOTE:

THE LOCATIONS OF THE EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY. THE UTILITIES PRESENT MAY NOT EXIST AS SHOWN. ADDITIONAL FACILITIES OTHER THAN THOSE SHOWN MAY BE PRESENT. IT SHALL BE THE RESPONSIBILITY OF ANYONE USING THIS DOCUMENT TO ASCERTAIN THE EXACT LOCATION, SIZE, TYPE, MATERIAL, AND ELEVATION OF ALL UTILITIES THAT MAY BE PRESENT.

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FIELD ENGINEER
800-255-4268, Locate_IPL@AlliantEnergy.com

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918-547-0147, sadie.hull@lumen.com

CITY OF CLINTON
JASON CRAFT
563-244-3423, JasonCraft@CityOfClintonIowa.us

IOWA AMERICAN WATER COMPANY
DELBERT R GRUHN
563-324-0923

MEDIACOM
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815-597-5103, CMinard@Mediacomcc.com

UNITE PRIVATE NETWORKS, LLC
JOE KILZER
816-425-3556, upngis@upnfiber.com

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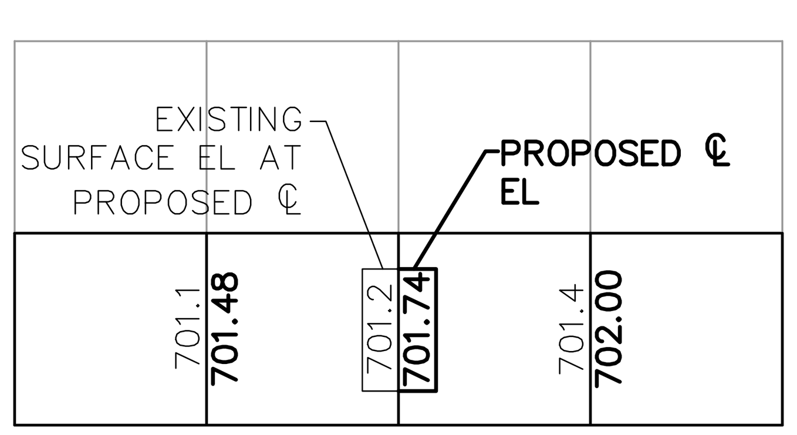
Sheet Title
COVER SHEET

G0.01

ABBREVIATIONS

Δ	CENTRAL ANGLE
A/C	AIR CONDITIONING(ER)
AC	ACRES
A.F.F.	ABOVE FINISHED FLOOR
AGG	AGGREGATE
AOH	ARROW ON HYDRANT
ARCH	ARCHITECTURAL
ASPH	ASPHALT
AVG	AVERAGE
B-B	B/C - B/C
B/C, BOC	BACK OF CURB
B/DITCH	BOTTOM OF DITCH
BFP	BACKFLOW PREVENTOR
B/L	BASE LINE
B/S	BOTTOM OF SLOPE
BLDG	BUILDING
B.M.	BENCH MARK
BOP	BEGINNING OF PROJECT
BOT	BOTTOM
BSMT	BASEMENT
BV	BUTTERFLY VALVE
C&G	CURB AND GUTTER
CATV	CABLE TELEVISION
CB	CATCH BASIN
C-C	CENTER TO CENTER
CF	CUBIC FEET
CH	CHORD
CH BRG	CHORD BEARING
CIP	CAST IRON PIPE
C-I-P	CAST-IN-PLACE
CISP	CAST IRON SOIL PIPE
CJ	CONTROL JOINT
℄ OR CL	CENTERLINE
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
COMP	COMPACTED
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
COR	CORNER
CP	CONTROL POINT
CPE	CORRUGATED POLYETHYLENE PIPE
CRST	CRUSHED STONE
CSP	CORRUGATED STEEL PIPE
CTRD	CENTERED
CTR	CENTER
CULT	CULTIVATED
CV	CHECK VALVE
CY	CUBIC YARD
D	DEGREE OF CURVE
DIA (ø)	DIAMETER
DIP	DUCTILE IRON PIPE
DN	DOWN
DRWY	DRIVEWAY
DS	DOWNSPOUT
DWG(S)	DRAWING(S)
DWL(S)	DOWEL(S)
E	EAST
E'LY	EASTERLY
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMBED	EMBEDMENT
ENGR	ENGINEER
ENTR	ENTRANCE
EOP	END OF PROJECT
EOR	END OF RADIUS
E/P	EDGE OF PAVEMENT
EQ	EQUAL
E/S	EDGE OF SHOULDER
ESMT	EASEMENT
EST	ESTIMATE
EX	EXISTING
EXC	EXCAVATE/EXCAVATION
EXP	EXPANSION
EXT	EXTERIOR
EXTD	EXTEND
EW	EACH WAY
FD	FLOOR DRAIN
FDN	FOUNDATION
F.E.	FIELD ENTRANCE
FES	FLARED END SECTION
F-F	FACE TO FACE
FFE	FINISH FLOOR ELEVATION
FG	FORM GRADE
FIN GR	FINISHED GRADE
FL	FLOWLINE
FLG	FLANGE
FLR	FLOOR
FM	FORCE MAIN
FND	FOUND
FT	FOOT/FEET
FTG	FOOTING
FUT	FUTURE
FV	FIELD VERIFY
G	GUTTER
GC	GENERAL CONTRACTOR
GALV	GALVANIZED
GND	GROUND
GRAN	GRANULAR
GRD	GRADE
GV	GATE VALVE
HMA	HOT MIX ASPHALT
HORIZ	HORIZONTAL
HPT	HIGH POINT
HSD	HEADLIGHT STOPPING DISTANCE
HYD	HYDRANT
ID	INSIDE DIA/INSIDE DIM
IE	INVERT ELEVATION
IMP	IMPROVEMENTS
IN	INCHES
INV	INVERT
IP	IRON PIPE
JB	JUNCTION BOX
JT	JOINT/JOINT LENGTH
K	RATE OF VERT CURVATURE
L	LENGTH OF CURVE
LAT	LATERAL
LF	LINEAL FOOT
LONG	LONGITUDINAL
LP	LIGHT POLE
LPT	LOW POINT
LT	LEFT
MAX	MAXIMUM
ME	MATCH EXISTING
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MON	MONUMENT
MP	MILE POST
N	NORTH
N/A	NOT APPLICABLE
NE'LY	NORTHEASTERLY
N'LY	NORTHERLY
NO/#	NUMBER
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NW'LY	NORTHWESTERLY
OC	ON CENTER
OD	OUTSIDE DIAMETER
PC	POINT OF CURVE
PERF	PERFORATED
PI	POINT OF INTERSECTION
P/L	PROPERTY LINE
PM	PRINCIPAL MERIDIAN
POB	POINT OF BEGINNING
POC	POINT OF CURVE
POT	POINT OF TANGENT
PRC	POINT OF REVERSE CURVE
PRELIM	PRELIMINARY
PROP	PROPOSED
PRV	PRESSURE REDUCING VALVE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
QTY	QUANTITY
R	RADIUS
R&R	REMOVE & REPLACE
R&S	REMOVE & SALVAGE
RCB	REINFORCED CONCRETE BOX
RCAP	REINFORCED CONCRETE ARCH PIPE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
REBAR	REINFORCING BAR
REF	REFERENCE
REINF	REINFORCING/REINFORCED
REV	REVISION
RIM	RIM ELEVATION
ROW	RIGHT OF WAY
RP	RADIUS POINT
RS	RESILIENT SEAT
RT	RIGHT
S	SOUTH
S=	SUPERELEVATION
SAN	SANITARY
SANS	SANITARY SEWER
SB	SOIL BORING
SCH	SCHEDULE
SD	SUB DRAIN
SEC	SECTION
SE'LY	SOUTHEASTERLY
SF	SQUARE FOOT
S.F.D.	STEP FOOTING DOWN
SHT	SHEET
SIG.	SIGNAL
SIM.	SIMILAR
S'LY	SOUTHERLY
SOG	SLAB ON GRADE
SPEC	SPECIFICATION
SS	STAINLESS STEEL
SSD	STOPPING SIGHT DISTANCE
ST	STREET
STA	STATION
STD	STANDARD
STL	STEEL
STM	STORM
STMS	STORM SEWER
SW'LY	SOUTHWESTERLY
SY	SQUARE YARD
T	TANGENT LENGTH
T/B	TOP OF BANK
T/DITCH	TOP OF DITCH
T/C, TC	TOP OF CURB
T/GRAV	TOP OF GRAVEL
T/WALL	TOP OF WALL
T/P, TP	TOP OF PAVEMENT
T/S	TOP OF SLOPE
T/SUB	TOP OF SUBGRADE
T/W, TW	TOP OF WALK
T/WM	TOP OF WATER MAIN
T & B	TOP AND BOTTOM
T.O.B.	TOP OF BEAM
T.O.B.L.	TOP OF BRICK LEDGE
T.O.C.	TOP OF CONCRETE
T.O.E.F.	TOP OF EXISTING FOOTING
T.O.F.	TOP OF FOOTING
T.O.M.	TOP OF MASONRY
T.O.P.	TOP OF PIER
T.O.S.	TOP OF STEEL
TCE	TEMP CONSTRUCTION EASEMENT
TEL	TELEPHONE
TEMP	TEMPORARY
THK	THICK / THICKNESS
TWP	TOWNSHIP
TYP	TYPICAL
U	UTILITY
UAC	USE AS CONSTRUCTED
UE	UTILITY EASEMENT
UL	UNDERWRITERS LABORATORIES, INC.
ULFM	UNDERWRITERS LABORATORIES FACTORY MUTUAL
UNO	UNLESS NOTED OTHERWISE
VAR	VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VER	VERIFY
VERT	VERTICAL
VOL	VOLUME
VPC	VERT POINT OF CURVE
VPI	VERT POINT OF INTERSECTION
VPT	VERT POINT OF TANGENCY
W	WEST
W/	WITH
W'LY	WESTERLY
WM	WATER MAIN
W/O	WITHOUT
W.P.	WORKING POINT
WD	WOOD
WSO	WATER SHUT OFF
WV	WATER VALVE
WWF	WELDED WIRE FABRIC
YD	YARD



PROFILE LEGEND

LEGEND

EXISTING		PROPOSED
	PROPERTY LINE	
	EASEMENT	
	SECTION LINE	
	QUARTER SECTION LINE	
	QUARTER QUARTER SECTION LINE	
	CENTERLINE	
D	STORM SEWER	D
SD	SUB DRAIN	SD
S	SANITARY SEWER	S
FM	FORCE MAIN	FM
W	WATER LINE	W
G	GAS LINE	G
OHE	OVERHEAD ELECTRIC	OHE
E	UNDERGROUND ELECTRIC	E
OHT	OVERHEAD TELEPHONE	OHT
T	UNDERGROUND TELEPHONE	T
OHTV	OVERHEAD TELEVISION	OHTV
TV	UNDERGROUND TELEVISION	TV
FIB	FIBER OPTIC	FIB
X	WIRE FENCE	X
O	CHAINLINK FENCE	O
□	WOOD FENCE	□
000	CONTOUR LINE	000
	RAILROAD TRACKS	
	GUARD RAIL	
+ 0.00	SPOT ELEVATION	+ 0.00
	DIRECTION OF FLOW	
	TREE LINE	

EXISTING		PROPOSED
	CATCH BASIN	
	AREA INTAKE	
	STORM MANHOLE	
	SANITARY MANHOLE	
	UTILITY MANHOLE	
	WATER VALVE MANHOLE	
	FIRE HYDRANT	
	WATER SHUT OFF	
	WATER VALVE	
	YARD HYDRANT	
GV	GAS VALVE	GV
	SIGN	
	UTILITY POLE	
	UTILITY POLE WITH LIGHT	
	TRAFFIC SIGNAL POLE	
	GUY ANCHOR	
	LIGHT POLE	
	UTILITY PEDESTAL	
	WELL	
	MAILBOX	
	WATER LEVEL	
	BOLLARD	
	SOIL BORING	
PIV	POST INDICATOR VALVE	PIV
	DECIDUOUS TREE W/ TRUNK DIA.	
	CONIFEROUS TREE W/ TRUNK DIA.	
	SHRUB OR BUSH	

EROSION CONTROL LEGEND

TEMPORARY

- SF — PERIMETER CONTROL (STRAW WATTLES, FILTER SOCKS & SILT FENCE ARE GENERALLY INTERCHANGEABLE)
- CW — CONCRETE WASHOUT
- CE — CONSTRUCTION ENTRANCE
- TM — MULCHING
- TS — SEEDING
- CB — COMPOST BLANKET
- DC, RD — DITCH CHECK (ROCK DAM)
- ST — SEDIMENT TRAP
- IP — INLET PROTECTION
- DC — DUST CONTROL

TEMPORARY

- ROLLED EROSION CONTROL PRODUCT (RECP) PER PLAN
- T — STREAM CROSSING
- CRS — CONSTRUCTION ROAD STABILIZATION
- TD — TEMPORARY DIVERSION
- LEVEL SPREADER

PERMANENT

- PS — SEEDING
- S — SODDING
- SFM — SEED, FERTILIZER & MULCH
- OP — OUTLET PROTECTION
- RS — REVETMENT SLOPE PROTECTION
- SOD DROP INLET PROTECTION
- CD — CHECK DAM
- SC — STONE CHECK
- SB — SEDIMENT BASIN
- SURFACE ROUGHENING
- TURF REINFORCEMENT MAT (TRM)
- SD — SLOPE DRAIN
- PD — PERMANENT DIVERSION
- LEVEL SPREADER

PERMANENT

- V — VEGETATIVE STREAMBANK STABILIZATION
- S — STRUCTURAL STREAMBANK STABILIZATION
- RR — RIP RAP LINED CHANNEL
- GL — GRASS LINED CHANNEL (_____) MATERIAL REQUIRED

SURVEY

- ■ FOUND REBAR
- ● FOUND IRON PIPE
- ○ SET REBAR

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Client Name
CLINTON COUNTY

Project Name
LAW CENTER PARKING LOT

Location / Description
CLINTON, IOWA

Rev	Description	Date
Revisions		

Project Number ----
Project Manager JDB
Issued For Bidding: 10/22/24
Issued For Construction:

Sheet Title
ABBREVIATIONS AND LEGEND

G0.02

ALL CONSTRUCTION SHALL BE PER APPLICABLE SECTIONS OF THE LATEST EDITION OF SUDAS STANDARD SPECIFICATIONS, CITY OF CLINTON SUPPLEMENTAL SPECIFICATIONS, AND STANDARD PLANS FOR PRODUCTS AND EXECUTION EXCEPT AS MODIFIED OR SUPERCEDED BY THESE PLANS. THE SUDAS SECTIONS APPLICABLE TO THESE PLANS INCLUDE, BUT MAY NOT BE LIMITED TO, THE FOLLOWING:

GENERAL NOTES

1. ALL EXTERIOR TRASH COLLECTION AREAS AND THE MATERIALS CONTAINED THEREIN SHALL BE SCREENED FROM VIEW FROM THE ADJACENT PUBLIC RIGHT-OF-WAY PER THE CITY OF CLINTON UNIFIED DEVELOPMENT CODE.
2. SITE SIGNAGE REQUIRES A SEPARATE REVIEW PROCESS AND PERMIT FROM CITY.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL WORK WITH THE OWNER.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STAKING.
5. THE CONTRACTOR AGREES THAT IT AND ITS REPRESENTATIVES HAVE VISITED THE SITE AND ARE FAMILIAR WITH THE EXISTING CONDITIONS, AND THE CONTRACTOR AGREES THAT THE EXISTING CONDITIONS ARE ACCURATELY REPRESENTED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE ENGINEER OF ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE CONDITIONS REPRESENTED.
6. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL BE RESPONSIBLE FOR ENSURING THAT THE LATEST REVISION OF THE APPROVED PLANS AND ANY ADDENDA ARE AT THE PROJECT SITE AT ALL TIMES AND BEING USED APPROPRIATELY.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING NECESSARY PERMITS FROM THE CITY OF CLINTON OR OTHER APPLICABLE AGENCIES.
8. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGGERS OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY.
9. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPLACE ANY PROPERTY PINS DISTURBED DURING CONSTRUCTION AT THE ENGINEER'S OR SURVEYOR'S REGULAR FEE OR RATE.
10. EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATION FROM RECORD INFORMATION OBTAINED FROM SOURCES OF VARYING RELIABILITY AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. EXISTENCE, LOCATION, DEPTH, SIZE OR MATERIAL MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND ENGINEER DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF ALL EXISTING UTILITIES AND SHALL CONTACT ONE CALL PRIOR TO COMMENCING WORK. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL EXISTENCE, LOCATION, DEPTH, SIZE AND MATERIAL OF UNDERGROUND UTILITIES OR OTHER FACILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCURRED AS A RESULT OF THEIR FAILURE TO LOCATE EXISTING UTILITIES AND FACILITIES PRIOR TO COMMENCING WORK. THE ENGINEER MAKES NO GUARANTEE, AND NO WARRANTEE IS IMPLIED, REGARDING THE ACCURACY OR COMPLETENESS OF INFORMATION SHOWN FOR EXISTING UTILITIES AND IMPROVEMENTS.
11. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO IMMEDIATELY NOTIFY THE DESIGN ENGINEER UPON DISCOVERY OF ANY FIELD CONFLICTS OR CHANGES IN CONDITIONS. FAILURE TO DO SO UPON DISCOVERY WILL VOID CLAIMS FOR COMPENSATION AS EXTRA WORK FOR THAT WHICH COULD HAVE BEEN MITIGATED HAD THE ENGINEER BEEN NOTIFIED AT TIME OF DISCOVERY.
12. ANY PROPOSED REVISIONS TO THESE PLANS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER AND WHEN APPLICABLE, BY THE CITY ENGINEER, PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER, OR CITY ENGINEER, WHERE APPLICABLE. ANY DEVIATIONS OR CHANGES IN THESE PLANS WITHOUT OFFICIAL APPROVAL OF THE DESIGN ENGINEER SHALL ABSOLVE THE DESIGN ENGINEER OF ANY AND ALL RESPONSIBILITY OF SAID DEVIATION OR CHANGE.
13. SHOULD IT APPEAR THAT THE WORK TO BE DONE OR ANY MATTER RELATIVE THERETO IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.

EROSION CONTROL

1. COMPLY WITH APPLICABLE PROVISIONS OF SUDAS SPECIFICATIONS AND DOCUMENTS, DIVISION 9 – SITEWORK AND LANDSCAPING
2. REGULATORY REQUIREMENTS: NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) AND IOWA DEPARTMENT OF NATURAL RESOURCES; GENERAL PERMIT #2.
3. MATERIAL PROPERTIES:
   - A. RIPRAP: IOWA DOT SECTION 4130.02 CLASS A REVETMENT – BROKEN LIMESTONE, DOLOMITE, OR QUARTZITE.
   - B. EROSION STONE: IOWA DOT SECTION 4130.05 EROSION STONE – BROKEN LIMESTONE, DOLOMITE, OR QUARTZITE.
   - C. SILT FENCE: IOWA DOT SECTION 4196.01A ENGINEERING FABRIC.
4. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT COVERAGE UNDER NPDES, CONSTRUCTION GENERAL PERMIT #2 PERMIT HAS BE SECURED. DO NOT COMMENCE SITE CLEARING OR GROUND DISTURBING OPERATIONS UNTIL AN NPDES PERMIT HAS BEEN GRANTED.
5. PROVIDE TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES TO PREVENT SOIL EROSION AND DISCHARGE OF SOIL-BEARING WATER RUNOFF OR AIRBORNE DUST TO ADJACENT PROPERTIES AND WALKWAYS, ACCORDING TO A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) COMPLYING WITH CODE OF IOWA 161A.64, AS REQUIRED BY THE IOWA DNR. INSPECT, REPAIR, AND MAINTAIN EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED.
6. THE CONTRACTOR SHALL TAKE PREVENTATIVE MEASURES TO CONTROL AIRBORNE DUST AND SHALL BE RESPONSIBLE FOR DAMAGE RESULTING FROM A FAILURE TO DO SO.
7. THE CONTRACTOR SHALL KEEP ADJACENT STREETS CLEAN AND FREE OF DIRT OR DEBRIS AT ALL TIMES AND REMOVE ANY TRACKED MUD FROM THE STREET IMMEDIATELY. ALL COSTS FOR SUCH SHALL BE INCLUDED IN THE CONTRACT PRICE AND ANY ADDITIONAL COSTS, FEES OR FINES RESULTING FROM FAILURE TO DO SO SHALL BE PAID BY THE CONTRACTOR.
8. DO NOT INTERRUPT UTILITIES SERVING FACILITIES OCCUPIED BY THE OWNER OR OTHERS UNLESS SPECIFICALLY PERMITTED. IF PERMITTED, TEMPORARY UTILITY SERVICES SHALL BE PROVIDED.
9. CLEARING AND GRUBBING: REMOVE OBSTRUCTIONS, TREES, SHRUBS, GRASS, AND OTHER VEGETATION AS INDICATED. GRIND STUMPS AND REMOVE ROOTS AND OBSTRUCTIONS TO A MINIMUM DEPTH OF 18 INCHES BELOW THE DESIGN SUBGRADE.
10. TOPSOIL STRIPPING: REMOVE SOD AND GRASS BEFORE STRIPPING. STRIP TOPSOIL TO WHATEVER DEPTHS ARE ENCOUNTERED AND STOCKPILE AWAY FROM EDGE OF EXCAVATION. DO NOT STOCKPILE WITHIN TREE PROTECTION ZONES.
11. TOPSOIL REPLACEMENT: REPLACE TOPSOIL TO A MINIMUM DEPTH OF 4" OVER ALL DISTURBED AREAS.
12. LEGALLY DISPOSE OF SURPLUS SOIL MATERIAL AND WASTE MATERIALS OFF OWNER'S PROPERTY OR AT DESIGNATED DISPOSITION AREA.
13. UNLESS OTHERWISE NOTED, ALL EXPOSED SOIL SHALL BE SEEDED WITH TYPE XX SEED.

EARTHWORK AND TRENCHING

1. COMPLY WITH APPLICABLE PROVISIONS OF SUDAS SPECIFICATIONS AND DOCUMENTS, DIVISION 2 – EARTHWORK AND DIVISION 3 – TRENCH AND TRENCHLESS CONSTRUCTION.
2. EXCAVATIONS SHALL BE ADEQUATELY SHORED, BRACED AND/OR SHEETED SO THAT THE EARTH WILL NOT SLIDE NOR SETTLE AND SO THAT ALL EXISTING IMPROVEMENTS OF ANY KIND WILL BE FULLY PROTECTED FROM DAMAGE. ANY DAMAGE TO ADJACENT IMPROVEMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NECESSARY REPAIRS OR REPLACEMENTS SHALL BE AT THE CONTRACTOR'S OWN EXPENSE.
3. UTILITY TRENCH BACKFILL: SHAPE BEDDING COURSE TO PROVIDE CONTINUOUS SUPPORT FOR BELLS, JOINTS, AND BARRELS OF PIPES. PLACE AND COMPACT INITIAL BACKFILL, FREE OF PARTICLES LARGER THAN 1 INCH IN ANY DIMENSION, PLACE AND COMPACT FINAL BACKFILL TO FINAL SUBGRADE ELEVATION USING THE FOLLOWING MATERIALS:
   - A. BUILDING SLABS, WALKS, AND PAVEMENTS: FINAL BACKFILL-CLASS III.
   - B. UNDER AND WITHIN 18 INCHES OF FOOTINGS: CONCRETE.
   - C. ALL OTHER AREAS: SATISFACTORY SOIL-CLASS IV.
4. TRENCH CONSTRUCTION MATERIAL PROPERTIES:
   - A. UNSATISFACTORY SOILS (IN ADDITION TO THE REQUIREMENTS OF 2.02.D): ASTM D 2487 SOIL CLASSIFICATIONS GROUPS OL, CH, MH, OH, AND PT, OR A COMBINATION OF THESE GROUPS; OR SOILS NOT MAINTAINED WITHIN 2 PERCENT OF OPTIMUM MOISTURE CONTENT AT TIME OF COMPACTION.
   - B. GRANULAR STABILIZATION MATERIAL (2.04.B): IOWA DOT SECTION 4122.02 MACADAM STONE BASE MATERIAL, GRADATION 13 WITH CHOKE STONE MATERIAL RETAINED ON A ¾"SIEVE INCLUDED WITH NO MORE THAN 10% PASSING A #200 SIEVE (MODIFIED MACADAM).
   - C. BASE COURSE: IOWA DOT SECTION 4120.04 CLASS A CRUSHED STONE, GRADATION 11.
   - D. ENGINEERED FILL: IOWA DOT SECTION 4132, SPECIAL BACKFILL, GRADATION 30.
   - E. BEDDING MATERIAL:
     - E.1. CLASS I MATERIAL: 1" CLEAN STONE, IDOT SPEC 4115 GRADATION 3 OR IDOT SPEC 4131 GRADATION 29.
     - E.2. CLASS II MATERIAL: IDOT SPEC 4133 GRADATION 32, IDOT SPEC 4121 GRADATION 12A
   - F. HAUNCH SUPPORT, PRIMARY & SECONDARY BACKFILL MATERIAL:
     - F.1. CLASS II MATERIAL:
       - F.1.1. 1" CLEAN STONE (CLEANED BUT NOT WASHED)
       - F.1.2. IDOT SPEC 4115, GRADATION 3
       - F.1.3. IDOT SPEC 4131, GRADATION 29
       - F.1.4. IDOT SPEC 4133.05, GRADATION 35
       - F.1.5. IDOT SPEC 4133.05, GRADATION 36
       - F.1.6. IDOT SPEC 4121, GRADATION 12A (MAY BE USED FOR PRIMARY AND SECONDARY BACKFILL)
       - F.1.7. IDOT SPEC 4133, GRADATION 32 (MAY BE USED FOR PRIMARY AND SECONDARY BACKFILL)
     - F.2. GRADATIONS 12A OR 32 MAY NOT BE USED IN AREAS WHERE WATER CONDITIONS IN TRENCH MAY CAUSE INSTABILITY.
     - F.3. ENGINEERING FABRIC SHALL BE PLACED AT THE INTERFACE BETWEEN THE GRADATION 3 OR 29 MATERIAL AND BACKFILL CONTAINING FINES
   - G. FINAL BACKFILL MATERIAL:
     - G.1. CLASS III
       - G.1.1. IDOT SPEC 4121, GRADATION 12A
       - G.1.2. IDOT SPEC 4133, GRADATION 32
       - G.1.3. ENGINEERING FABRIC SHALL BE PLACED AT THE INTERFACE BETWEEN THE GRADATION 3 OR 29 MATERIAL AND BACKFILL CONTAINING FINES
     - G.2. CLASS IV
       - G.2.1. SATISFACTORY SOILS (IN ADDITION TO THE REQUIREMENTS OF 2.03): ASTM D 2487 SOIL CLASSIFICATION GROUPS GW, GP, GM, GC, SW, SP, SM, SC, CL, ML, OR A COMBINATION OF THESE GROUPS; FREE OF ROCK OR GRAVEL LARGER THAN 3 INCHES IN ANY DIMENSIONS, DEBRIS, WASTE, FROZEN MATERIALS, VEGETATION, AND OTHER DELETERIOUS MATTER; LIQUID LIMIT LESS THAN 45; AND A MAXIMUM PLASTICITY INDEX OF 20.
5. OTHER CONSTRUCTION MATERIAL PROPERTIES:
   - A. IMPERVIOUS FILL: ASTM D 2487, FINE GRAINED SOIL WITH A MINIMUM LIQUID LIMIT OF 35 AND A PLASTICITY INDEX BETWEEN 10 AND 40, AND A MAXIMUM ALLOWABLE HYDRAULIC CONDUCTIVITY OF 1X10-6 CM/SEC ACCORDING TO ASTM D 5084.
   - B. RIPRAP: IOWA DOT SECTION 4130.02 CLASS A REVETMENT – BROKEN LIMESTONE, DOLOMITE, OR QUARTZITE.
   - C. PERFORATED POLYETHYLENE SUBDRAIN: ASTM F 405 OR AASHTO M 252, TYPE CP; CORRUGATED, FOR COUPLED JOINTS.
6. A GEOTECHNICAL ENGINEERING REPORT HAS NOT BEEN PREPARED FOR THE OWNER. REASONABLE AND CONSERVATIVE ESTIMATES SHOULD BE USED FOR ALLOWABLE BEARING PRESSURES AND OTHER SOIL LOADING VALUES FOR FOUNDATION AND RETAINING WALL DESIGN.
7. PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, EROSION AND SEDIMENTATION CONTROL, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT, AND OTHER HAZARDS CAUSED BY EARTHWORK OPERATIONS. CONTRACTOR RESPONSIBLE FOR REPAIRS TO DAMAGED SURFACES.
8. UNIFORMLY GRADE AREAS TO A SMOOTH SURFACE, FREE OF IRREGULAR SURFACE CHANGES. SLOPE GRADES TO DIRECT WATER AWAY FROM BUILDINGS AND TO PREVENT PONDING.
9. PLOW, SCARIFY, BENCH, OR BREAK UP SLOPED SURFACES STEEPER THAN 4 HORIZONTAL TO 1 VERTICAL SO FILL MATERIAL WILL BOND WITH EXISTING MATERIAL. PLACE AND COMPACT FILL MATERIAL IN LAYERS TO REQUIRED ELEVATION AND AS FOLLOWS:
   - A. UNDER WALKS, PAVEMENTS, BUILDING SLABS, FOOTINGS, AND FOUNDATIONS: SELECT SUBGRADE MATERIALS PER SUDAS SECTION 2010.
   - B. UNDER ALL OTHER AREAS: SUITABLE EMBANKMENT MATERIALS PER SUDAS SECTION 2010.
10. EXCAVATIONS SHALL COMPLY WITH THE FOLLOWING:
    - A. ALL EXCAVATIONS SHOULD COMPLY WITH THE REQUIREMENTS OF OSHA 29 CFR, PART 1926, SUBPART P, "EXCAVATIONS AND TRENCHES"AND OTHER APPLICABLE CODES.
    - B. EXCAVATE TO DIMENSIONS AND ELEVATIONS INDICATED.
    - C. FOOTINGS AND FOUNDATIONS: EXCAVATE BY HAND TO FINAL GRADE AND COMPACT SOIL AT BEARING SURFACE PRIOR TO PLACING FOOTINGS TO FIRM UP ALL LOOSE MATERIAL FROM EXCAVATION, FORMING, ETC.
    - D. UTILITY TRENCHES: EXCAVATE TRENCHES DEEPER THAN BOTTOM OF PIPE EXCAVATION TO ALLOW FOR MINIMUM REQUIRED BEDDING COURSE AS NOTED IN BEDDING DETAIL." HAND EXCAVATE FOR BELL OF PIPE. EXCAVATE TRENCH WALLS VERTICALLY FROM TRENCH BOTTOM TO 12 INCHES HIGHER THAN PIPE OR CONDUIT.
11. NOTIFY ENGINEER WHEN EXCAVATIONS HAVE REACHED REQUIRED SUBGRADE. PROOF-ROLL SUBGRADE BELOW THE BUILDING SLABS AND PAVEMENTS TO IDENTIFY SOFT POCKETS AND AREAS OF EXCESS YIELDING. DO NOT PROOF-ROLL WET OR SATURATED SUBGRADES. IF ENGINEER DETERMINES THAT UNSATISFACTORY SOIL IS PRESENT, CONTINUE EXCAVATION AND REPLACE WITH COMPACTED BACKFILL OR FILL MATERIAL AS DIRECTED.
    - A. COMPLETELY PROOF-ROLL SUBGRADE IN ONE DIRECTION, REPEATING PROOF-ROLLING IN DIRECTION PERPENDICULAR TO FIRST DIRECTION. LIMIT VEHICLE SPEED TO 3 MPH.
    - B. PROOF-ROLL WITH A LOADED 10-WHEEL, TANDEM-AXLE DUMP TRUCK WEIGHING NOT LESS THAN 15 TONS.
    - C. EXCAVATE SOFT SPOTS, UNSATISFACTORY SOILS, AND AREAS OF EXCESSIVE PUMPING OR RUTTING, AS DETERMINED BY ENGINEER, AND REPLACE WITH COMPACTED BACKFILL OR FILL AS DIRECTED.
12. PLACE BACKFILL ON SUBGRADES FREE OF MUD, FROST, SNOW OR ICE. PLACE AND COMPACT BACKFILL IN EXCAVATIONS PROMPTLY.
13. PLACE BACKFILL AND FILL SOIL MATERIALS IN LAYERS NOT MORE THAN 8 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT AND NOT MORE THAN 4 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS.
14. PLACE BACKFILL AND FILL SOIL MATERIALS EVENLY ON ALL SIDES OF STRUCTURES AND UNIFORMLY ALONG THE FULL LENGTH OF EACH STRUCTURE.
15. SUBBASE AND BASE COURSE: SHAPE SUBBASE AND BASE COURSE TO REQUIRED CROWN ELEVATIONS AND CROSS-SLOPE GRADES. FOR SUBBASE OR BASE COURSES LESS THAN 6 INCHES, PLACE IN COMPACTED THICKNESS IN A SINGLE LAYER; FOR SUBBASE OR BASE COURSES GREATER THAN 6 INCHES IN COMPACTED THICKNESS, PLACE IN MULTIPLE LAYERS OF EQUAL THICKNESSES, WITH NO COMPACTED LAYER LESS THAN 3 INCHES OR GREATER THAN 6 INCHES.
16. CONTRACTOR SHALL NOTIFY PROJECT ENGINEER TO OBTAIN SAMPLES AND PERFORM LABORATORY DENSITY TESTING AND TO CONDUCT COMPACTION TESTS AS REQUIRED. COMPACTION REQUIREMENTS ARE SUBJECT TO ADJUSTMENT DEPENDING UPON THE MATERIAL DENSITY.
17. COMPACT SOIL MATERIALS TO NOT LESS THAN THE FOLLOWING PERCENTAGES OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO STANDARD PROCTOR COMPACTION TEST (ASTM D 698):
    - A. DISTURBED AND/OR PLACED MATERIAL UNDER OR WITHIN 5 FEET OF BUILDINGS, STRUCTURES, AND PAVEMENT/SIDEWALK SHALL BE COMPACTED TO AT LEAST 95% OF MAXIMUM STANDARD PROCTOR DENSITY.
    - B. UNDER LAWN OR UNPAVED AREAS, SCARIFY AND RECOMPACT TOP 6 INCHES BELOW SUBGRADE AND COMPACT EACH LAYER OF BACKFILL OR FILL SOIL MATERIAL AT 85 PERCENT.
18. VERIFY THE ALLOWABLE SOIL BEARING CAPACITY AND SUBGRADE MODULUS USED FOR FOUNDATION DESIGN. CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO COMMENCING WITH FORMWORK FOR FIELD VERIFICATION OF BEARING CAPACITY. CONTRACTOR SHALL MAKE MODIFICATIONS AS DIRECTED BY THE ENGINEER. MODIFICATIONS INCLUDE, BUT ARE NOT LIMITED TO, OVEREXCAVATION AND REPLACEMENT OF UNSATISFACTORY MATERIAL WITH SUITABLE COMPACTED FILL MATERIAL. FILL MATERIAL FOR OVEREXCAVATED AREAS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER. APPROVED FILL MATERIAL SHOULD BE COMPACTED TO AT LEAST 95 PERCENT OF THE STANDARD PROCTOR DENSITY IN LIFTS OF 9 INCHES OR LESS IN LOOSE THICKNESS OR AS APPROVED BY THE GEOTECHNICAL ENGINEER. THE INTENT OF THIS DESIGN IS TO SUPPORT THE FOUNDATIONS ON VIRGIN SUBSOIL MATERIAL FOR A CONSISTENT, UNIFORM BEARING MATERIAL.
19. PROTECT NEWLY GRADED AREAS FROM TRAFFIC, FREEZING, AND EROSION. WHERE SETTLING OCCURS BEFORE PROJECT CORRECTION PERIOD ELAPSES, REMOVE FINISHED SURFACING, BACKFILL WITH ADDITIONAL SOIL MATERIAL, COMPACT, AND RECONSTRUCT SURFACE.
20. LEGALLY DISPOSE OF SURPLUS SOIL MATERIAL AND WASTE MATERIALS OFF OWNER'S PROPERTY OR TO DESIGNATED DISPOSITION AREA.

STORM DRAINAGE

1. COMPLY WITH APPLICABLE PROVISIONS OF SUDAS SPECIFICATIONS AND DOCUMENTS, DIVISION 4 – SEWERS AND DRAINS, DIVISION 6 – STRUCTURES FOR SANITARY AND STORM SEWERS
2. PERFORMANCE REQUIREMENTS: GRAVITY-FLOW, NONPRESSURE, DRAINAGE-PIPING PRESSURE RATING: 10-FOOT HEAD OF WATER. PIPE JOINTS SHALL BE AT LEAST WATER TIGHT TO 10-FOOT HEAD PRESSURE.
3. REFER TO EARTHWORK NOTES FOR ADDITIONAL EXCAVATING, TRENCHING, AND BACKFILLING REQUIREMENTS.
4. ALL HDPE STORM SEWER PIPE SHALL BE DUAL WALL N-12. ALL PLASTIC STORM SEWER PIPE SHALL BE PVC SDR 35 OR SDR 26 WITH GASKETED JOINTS, INSTALLED PER MANUFACTURER'S RECOMMENDATIONS, AND ASTM D2321.
5. ALL RCP PIPE JOINTS SHALL BE BELL AND SPIGOT WITH O-RING GASKETS OR PROFILE GASKET COMPLYING WITH ASTM C443
6. CONSTRUCT CATCH BASINS OF REINFORCED CONCRETE, DESIGNED ACCORDING TO ASTM C 890 FOR STRUCTURAL LOADING. PROVIDE INDIVIDUAL FRP STEPS OR FRP LADDER, WIDE ENOUGH TO ALLOW WORKER TO PLACE BOTH FEET ON ONE STEP AND DESIGNED TO PREVENT LATERAL SLIPPAGE OFF OF STEP. CAST OR ANCHOR INTO SIDEWALL AT 12 TO 16 INCH INTERVALS. OMIT STEPS IF TOTAL DEPTH FROM FLOOR OF CATCH BASIN TO FINISHED GRADE IS LESS THAN 60 INCHES.
7. INSTALL PROPER SIZE INCREASERS, REDUCERS, AND COUPLINGS WHERE DIFFERENT SIZES OR MATERIALS OF PIPES AND FITTINGS ARE CONNECTED. REDUCING SIZE OF PIPE IN DIRECTION OF FLOW IS PROHIBITED.
8. INSTALL PRECAST CONCRETE MANHOLE SECTIONS ACCORDING TO ASTM C 891. SET TOPS OF FRAME AND COVERS FLUSH WITH FINISHED SURFACE OF MANHOLE THAT OCCURS IN PAVEMENTS. SET TOPS 3 INCHES ABOVE FINISHED SURFACE ELSEWHERE
9. INSPECT INTERIOR OF PIPING TO DETERMINE WHETHER LINE DISPLACEMENT OR OTHER DAMAGE HAS OCCURRED. INSPECT AFTER 24 INCHES OF BACKFILL IS IN PLACE, AND AGAIN AFTER COMPLETION OF PROJECT. DEFECTS REQUIRING CORRECTION INCLUDE THE FOLLOWING:
   - A. ALIGNMENT: LESS THAN FULL DIAMETER OF INSIDE OF PIPE IS VISIBLE BETWEEN STRUCTURES.
   - B. DEFLECTION: FLEXIBLE PIPING WITH DEFLECTION THAT PREVENTS PASSAGE OF BALL OR CYLINDER OF SIZE NOT LESS THAN 92.5% OF PIPING DIAMETER.
   - C. CRUSHED, BROKEN, CRACKED, OR OTHERWISE DAMAGED PIPING.

SANITARY SEWER

1. COMPLY WITH APPLICABLE PROVISIONS OF SUDAS SPECIFICATIONS AND DOCUMENTS, DIVISION 4 – SEWERS AND DRAINS, DIVISION 6 – STRUCTURES FOR SANITARY AND STORM SEWERS.
2. SOLID WALL PVC SHALL BE SDR-26 FOR 8 INCH TO 15 INCH.
3. DIP SANITARY SEWER SHALL BE MIN THICKNESS CLASS 51 WITH CEMENT MORTAR LINING.
4. FITTINGS SHALL BE USA MADE COMPACT DUCTILE IRON CONFORMING TO AWWA C153. POLYETHYLENE ENCASEMENT SHALL BE TRANSLUCENT OR BLACK.
5. PVC COMPOSITE, RCP, OR VCP ARE NOT ALLOWED.
6. SEWER CONNECTIONS SHALL BE A-LOK OR NPC BOOT. FRAME AND COVER SHALL BE NEENAH R1642-A.
7. INTERNAL CHIMNEY SEALS BY NPC OR CRETEX SHALL BE INSTALLED IN EACH MANHOLE.
8. REFER TO EARTHWORK NOTES FOR ADDITIONAL EXCAVATING, TRENCHING AND BACKFILLING REQUIREMENTS.
9. SANITARY SEWER MAIN AND LATERALS MUST BE INSTALLED WITH NBR GASKETS WHERE SITE CONDITIONS ARE UNDER THE INFLUENCE OF BENZENE/PETROL.
10. THE CONTRACTOR IS RESPONSIBLE FOR TESTING IN ACCORDANCE WITH SUDAS SECTION 4060.
11. EXISTING SEWER LATERALS THAT ARE TO REMAIN IN SERVICE SHALL BE TELEVISED (INSPECTED) AND A CONDITION ASSESSMENT PROVIDED TO THE CITY OF CLINTON IN ACCORDANCE WITH AN EPA CONSENT DECREE TO IDENTIFY AND REDUCE SOURCES OF INFLOW/INFILTRATION. LATERALS FOUND TO BE IN POOR CONDITION SHALL BE LINED OR REPLACED.
12. ARRANGE WITH THE CITY OF CLINTON FOR CONNECTIONS TO THE MAIN.
13. ANY NEW CONNECTIONS TO THE PUBLIC SANITARY SEWER SYSTEM SHALL BE INSPECTED BY THE CITY OF CLINTON BUILDING SERVICE DEPARTMENT AND/OR ENGINEERING DEPARTMENT, PLEASE CALL BUILDING SERVICE DEPARTMENT'S JASON MOURING ON 563.589.4150 OR CITY ENGINEERING ON 563-589.4270 WITHIN 48 HOURS OF CONNECTION TO ARRANGE FOR INSPECTION.

PAVING

1. COMPLY WITH APPLICABLE PROVISIONS OF SUDAS SPECIFICATIONS AND DOCUMENTS, DIVISION 2 – EARTHWORK AND DIVISION 7 – STREETS AND RELATED WORK
2. SUBGRADE PREPARATION. IN AREAS WHERE PAVEMENT WILL BE CONSTRUCTED IN A CUT SITUATION, SUBGRADE PREPARATION SHALL BE COMPLETED PER SECTION 2010.
3. SUBGRADE STABILIZATION
   - A. MATERIAL SHALL BE 3" MODIFIED MACADAM.
4. SUBBASE
   - A. MATERIAL SHALL COMPLY WITH IDOT SPECIFICATION: 4121 GRADATION 12A, 4132 GRADATION 30 OR IDOT SPECIFICATION 4133 OR IDOT SPECIFICATION 4123 MODIFIED SUBBASE.
   - B. ALL SUBGRADE PREPARATION SHALL BE COMPLETED IN ACCORDANCE WITH THE SOIL REPORT COMPLETED BY XXX CONSULTANTS, INC DATED XXXX
5. HMA
   - A. PERFORMANCE REQUIREMENTS: THE DESIGN CLASSIFICATION OF THE ROADWAY SHALL BE A MINIMUM OF 300,000 ESALS. (300K TYPICAL FOR PARKING LOTS)
   - B. COMPLY WITH THE REQUIREMENTS OF SUDAS SECTION 7020.
   - C. REFER TO SUDAS FIGURE 7020.901 FOR HMA PAVING WITH CURB & GUTTER.
6. CONCRETE
   - A. PERFORMANCE REQUIREMENTS: PER SUDAS STANDARDS DIVISION 7010, CLASS C CONCRETE, 4,000 PSI MIX.
   - B. PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES. CURE CONCRETE BY MOISTURE CURING, MOISTURE-RETAINING-COVER CURING, CURING COMPOUND, OR A COMBINATION OF THESE METHODS.
   - C. ALLOW PAVEMENT TO AGE 30 DAYS BEFORE STARTING PAVEMENT MARKING.
   - D. PAVEMENT JOINTING SHALL COMPLY WITH THE FOLLOWING:
     - D.1. LONGITUDINAL JOINTS: BT-1 OR L-1.
     - D.2. TRANSVERSE JOINTS: TYPE C
     - D.3. MAXIMUM JOINT SPACING: 12 FEET

PAVEMENT MARKING

1. LINE STRIPING, CROSSHATCHING, EDGE LINES AND LANE LINES SHALL BE 4" WIDE AND SMOOTH/EVEN CURVES OR STRAIGHT LINES.
2. LINE STRIPE FOR GENERAL PARKING SHALL BE WHITE IN COLOR AND SPECIAL PARKING SHALL BE YELLOW IN COLOR. ALL LETTERS (8" HIGH) AND NUMBERS (12") HIGH SHALL BE YELLOW IN COLOR. CROSSHATCHING TO BE YELLOW IN COLOR.
3. ALL LETTERING, NUMBERING AND SYMBOLS SHALL BE STENCILED, NOT FREEHAND.
4. WHITE EDGE LINES SHALL BE PROVIDED WHERE NO CURB EXISTS.
5. ALL PAINTING TO HAVE SHARP EDGES WITH NO BLEED THROUGH IN APPEARANCE.
6. CONTRACTOR SHALL BARRICADE THE AREA HE IS WORKING ON AND MAINTAIN BARRICADES UNTIL THE AREA IS DRY.
7. CONTRACTOR SHALL PROTECT ALL NEARBY VEHICLES FROM DAMAGE, SUCH AS OVERSPRAY.

SUBSURFACE DRAINAGE

1. COMPLY WITH APPLICABLE PROVISIONS OF SUDAS SPECIFICATIONS AND DOCUMENTS, DIVISION 4 – SEWERS AND DRAINS
2. FOLLOW SPECIFICATION ITEMS WITH RESPECT TO TYPE 1 SUBDRAINS (LONGITUDINAL SUBDRAIN)
   - A. MINIMUM TRENCH WIDTH SHALL BE 10" AT THE BOTTOM, MINIMUM PIPE SLOPE SHALL BE 0.5%
   - B. CRUSHED STONE ENVELOPE: CLEAN CRUSHED STONE MATERIAL SHALL BE IOWA DOT POROUS BACKFILL, GRADATION NO. 29, AND SHALL BE USED FOR THE PERFORATED DRAIN TILE FROM 3 INCHES BELOW THE BOTTOM OF THE PIPE TO THE BOTTOM OF THE PAVEMENT. NO SAND ENVELOPE OR FILTER FABRIC REQUIRED.
3. CATCH BASIN CONNECTION: CONNECTIONS OF 4 INCH CPE INTO CATCH BASINS SHALL BE THROUGH A 6 INCH HOLE IN THE SIDEWALL. ANNULAR SPACE SHALL BE GROUTED. PROVIDE RODENT GUARD IN THE END OF DRAIN TILE INSIDE CATCH BASINS.

LANDSCAPING NOTES:

1. ALL LANDSCAPING SHALL BE ACCORDING TO CURRENT CITY OF CLINTON REQUIREMENTS AND ALL APPLICABLE RESTRICTIONS AND COVENANTS.
2. LANDSCAPING SHALL BE INSTALLED BY THE DATE THE BUILDING DEPARTMENT ISSUES AN OCCUPANCY CERTIFICATE.
3. A DETAILED LANDSCAPING PLAN SHOWING THE LOCATION, SIZE (CALIPER DIAMETER OR HEIGHT) AND TYPE WILL BE PROVIDED BY THE LANDSCAPE CONTRACTOR. TREES SHALL BE IN ACCORDANCE WITH THE CITY OF CLINTON STREET TREE POLICY. TREES PLANTED IN THE PUBLIC RIGHT-OF-WAY DO NOT COUNT TOWARD LANDSCAPING REQUIREMENTS.
4. A TOTAL OF 8 TREES, 1½" – 2" CALIPER DIAMETER DECIDUOUS AND/OR 6-FOOT HEIGHT EVERGREENS AND 23 SHRUBS, MINIMUM 18 INCHES IN HEIGHT OR A MINIMUM OF THREE (3) GALLONS POTTED, ARE REQUIRED FOR THE SITE PER CITY OF CLINTON'S UNIFIED DEVELOPMENT CODE.

SIDEWALK

1. PERFORMANCE REQUIREMENTS: PER SUDAS STANDARDS DIVISION 7010, CLASS C CONCRETE, 4,000 PSI.
2. PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES. CURE CONCRETE BY MOISTURE CURING, MOISTURE-RETAINING-COVER CURING, CURING COMPOUND, OR A COMBINATION OF THESE METHODS.
3. JOINTING PER PLAN & DETAILS. 6' MAXIMUM JOINT SPACING.
4. REINFORCING:
   REINFORCING BARS: ASTM A615, GRADE 60
   EPOXY COATED DEFORMED BARS: ASTM A934
   EPOXY-COATED DEFORMED BARS SHALL HAVE LESS THAN 2% DAMAGED COATING IN EACH 12" BAR LENGTH.

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CLINTON COUNTY

Project Name
LAW CENTER PARKING LOT

Location / Description
CLINTON, IOWA

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Rev	Description	Date

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Issued For Construction:

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10/22/2024 2:05 PM ANGIE MAREK

Sheet Title
NOTES

G0.03

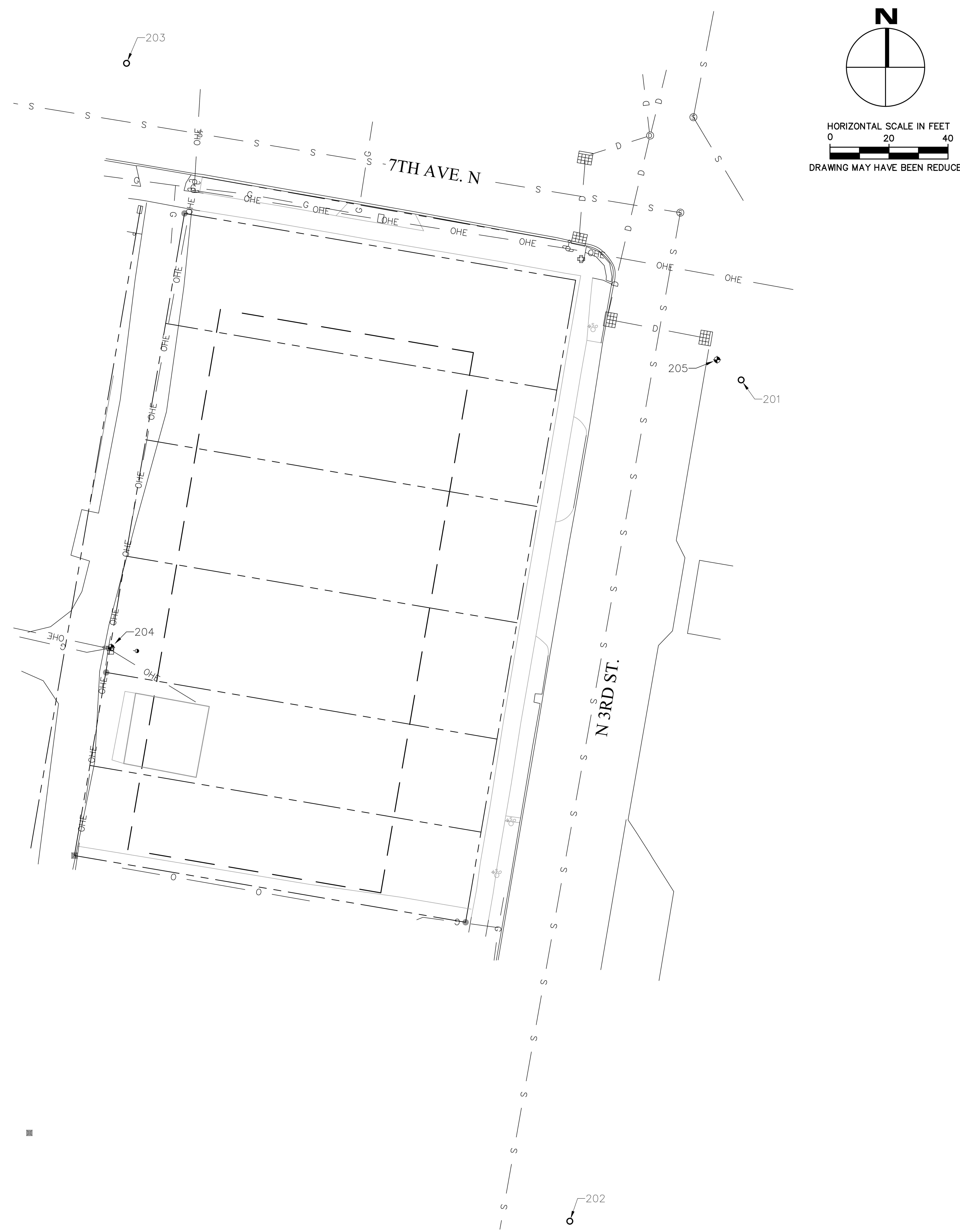
HORIZONTAL CONTROL
THE HORIZONTAL COORDINATES ON THIS PROJECT ARE BASED ON NAD83, IOWA STATE PLANES, SOUTH ZONE, US FOOT.

NOTE: ELEVATIONS OF HORIZONTAL CONTROL POINTS ARE PROVIDED FOR INFORMATION ONLY AND MAY BE SUBJECT TO VERTICAL MOVEMENT. IT SHALL BE THE RESPONSIBILITY OF ANYONE MAKING USE OF THESE ELEVATIONS TO VERIFY THEM WITH VALID BENCHMARKS AS LISTED ON THESE PLANS.

HORIZONTAL CONTROL				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
201	691650.32	2542123.11	588.00	CONTROL POINT REBAR 5/8
202	691365.17	2542065.05	587.97	CONTROL POINT REBAR 5/8
203	691757.66	2541914.82	588.06	CONTROL POINT REBAR 3/8

VERTICAL CONTROL
THE ELEVATIONS ON THIS PROJECT ARE BASED ON NAVD 88.

BENCH MARKS		
BENCHMARK NO.	ELEVATION	DESCRIPTION
204	588.27	B.M. RR SPIKE EAST SIDE UPOLE
205	590.18	B.M. AOH



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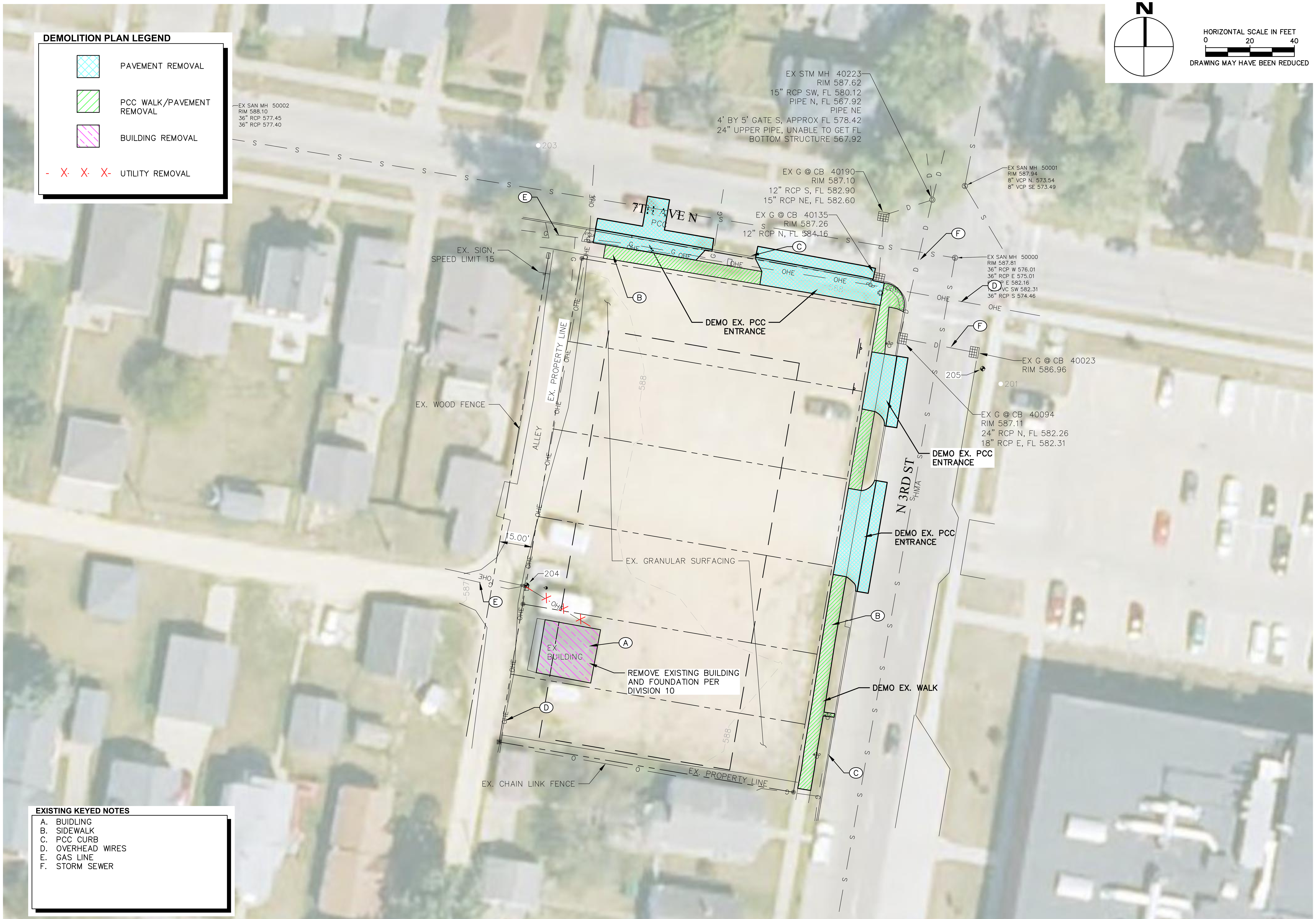
Sheet Title
SURVEY CONTROL

G0.04



DEMOLITION PLAN LEGEND

- PAVEMENT REMOVAL
- PCC WALK/PAVEMENT REMOVAL
- BUILDING REMOVAL
- UTILITY REMOVAL

EXISTING KEYED NOTES

A. BUILDING
B. SIDEWALK
C. PCC CURB
D. OVERHEAD WIRES
E. GAS LINE
F. STORM SEWER

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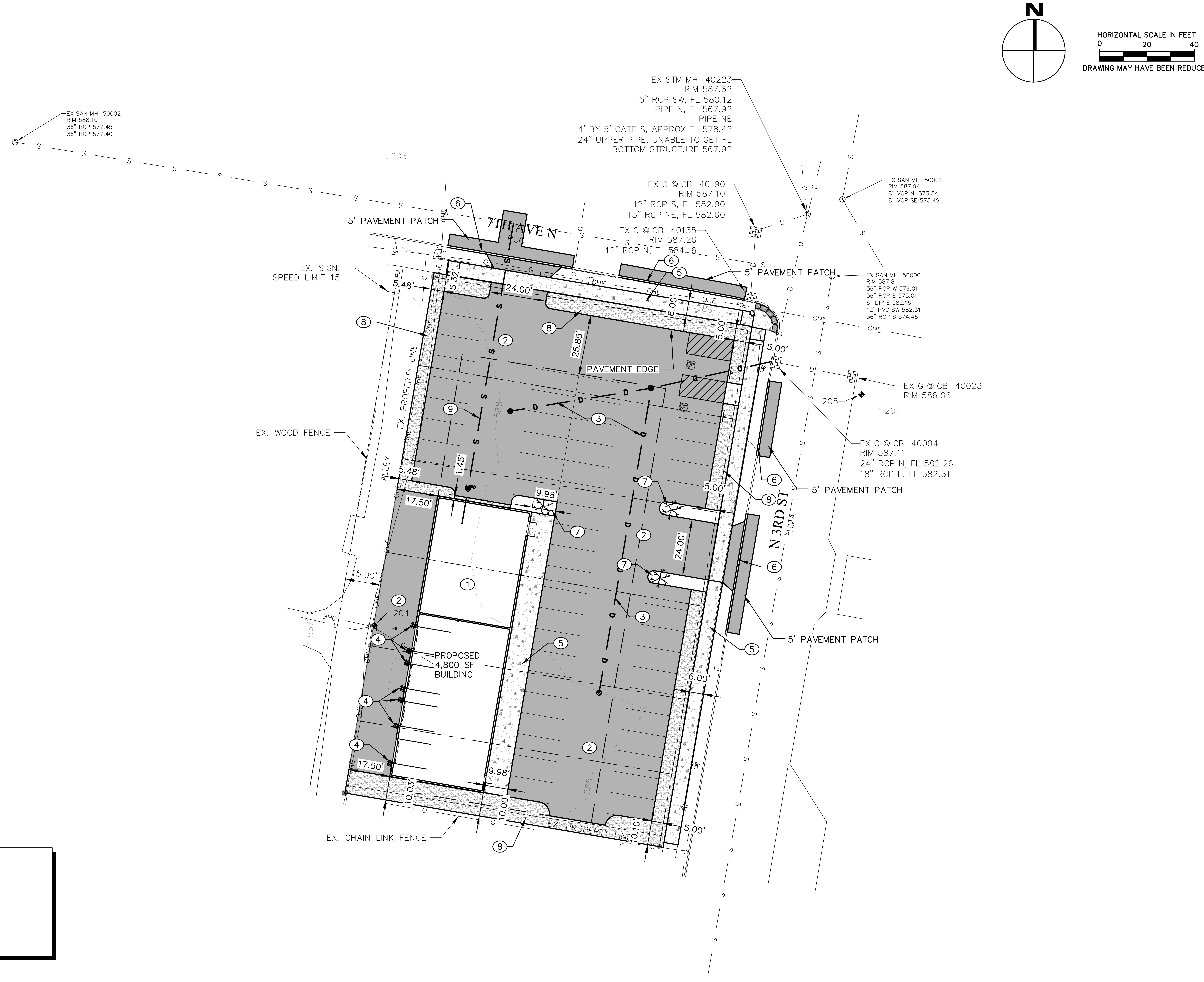
Sheet Title

EXISTING CONDITIONS AND DEMOLITION PLAN

C1.10



PROPOSED KEYED NOTES

1. BUILDING
2. PCC PAVEMENT
3. STORM SEWER
4. BOLLARD
5. PCC WALK
6. PCC CURB
7. TREE
8. 4" PCC WALK
9. SANITARY SERVICE

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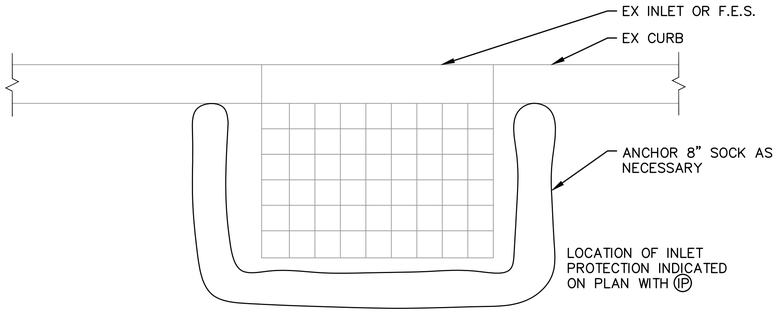
PROPOSED CONDITIONS

C1.20



1 / C2.01 INLET PROTECTION
SUBTITLE
NOT TO SCALE

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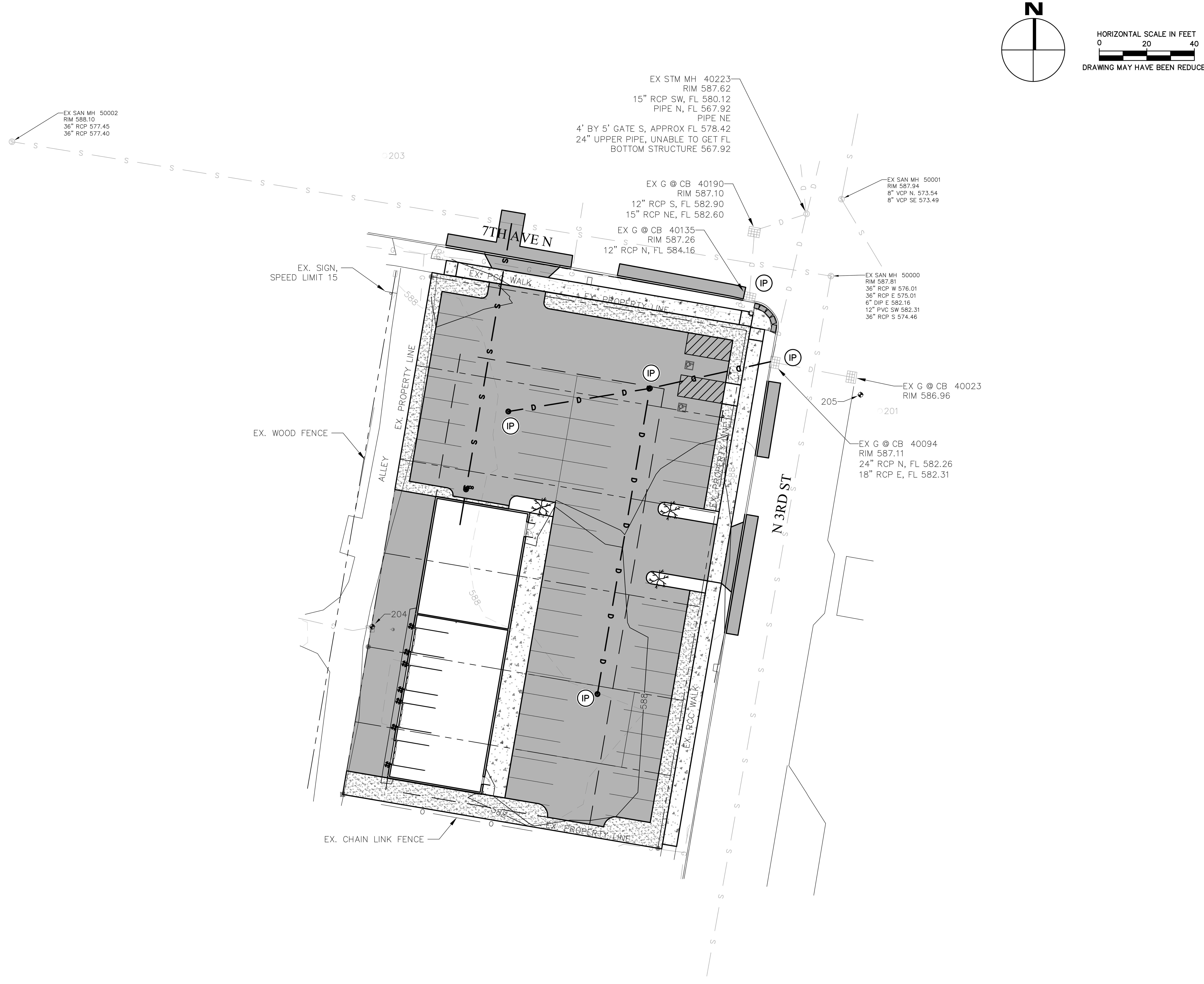
EROSION CONTROL DETAILS

C2.01



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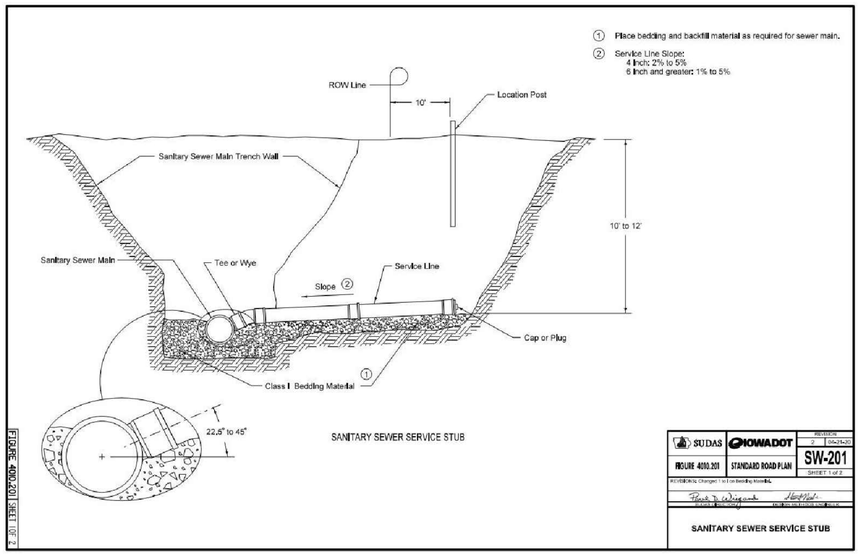
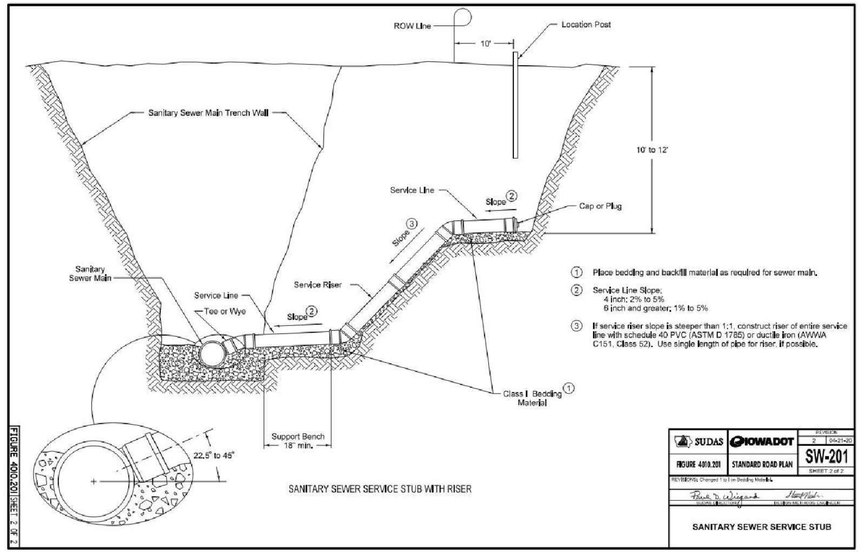
Sheet Title

EROSION CONTROL PLAN

C2.10





1 C5.01 SANITARY SEWER SERVICE STUB
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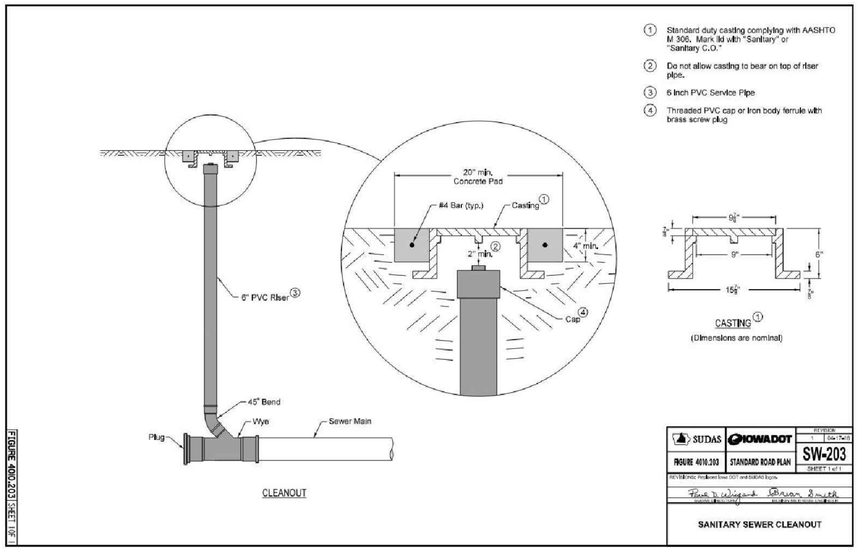

2 C5.01 SANITARY SEWER CLEANOUT
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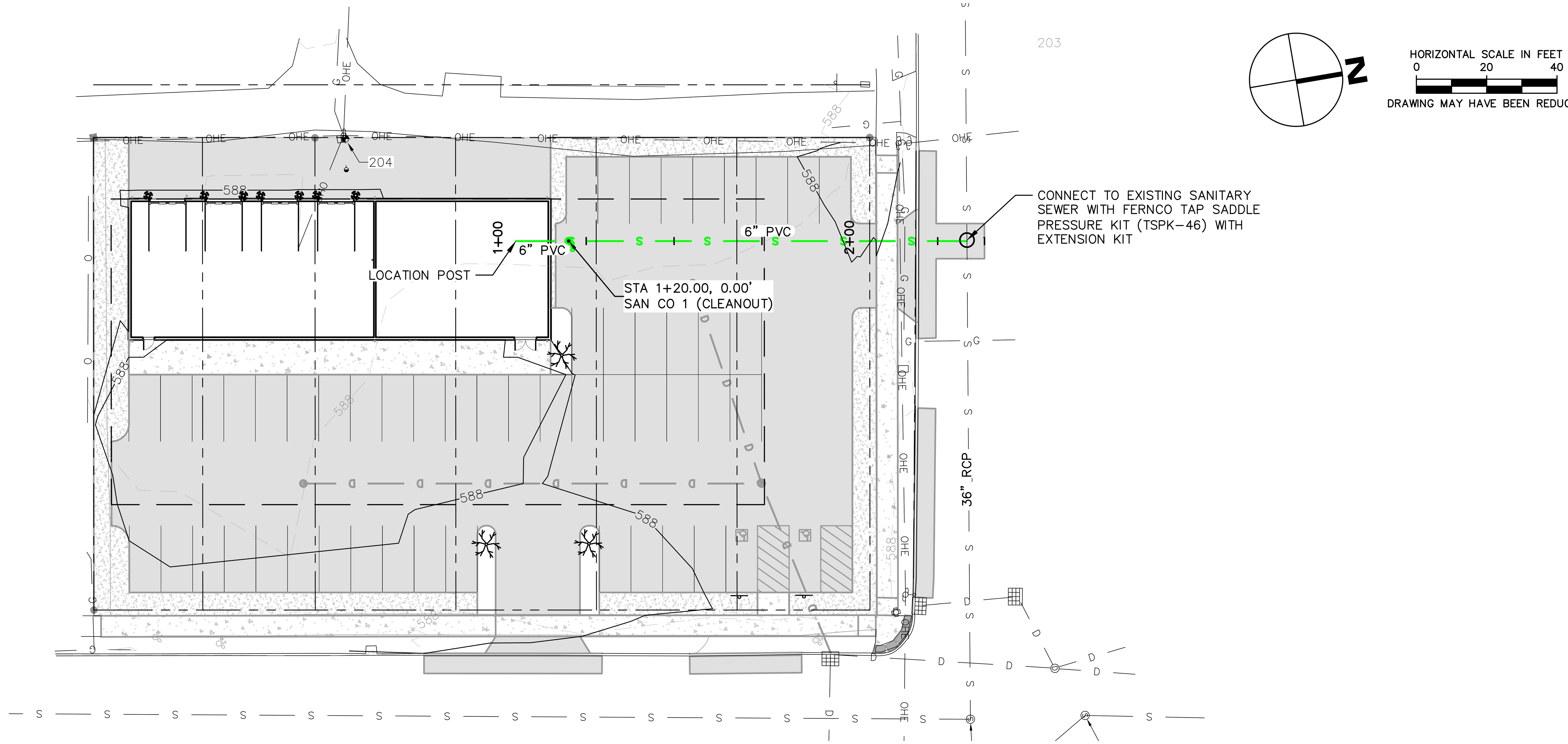
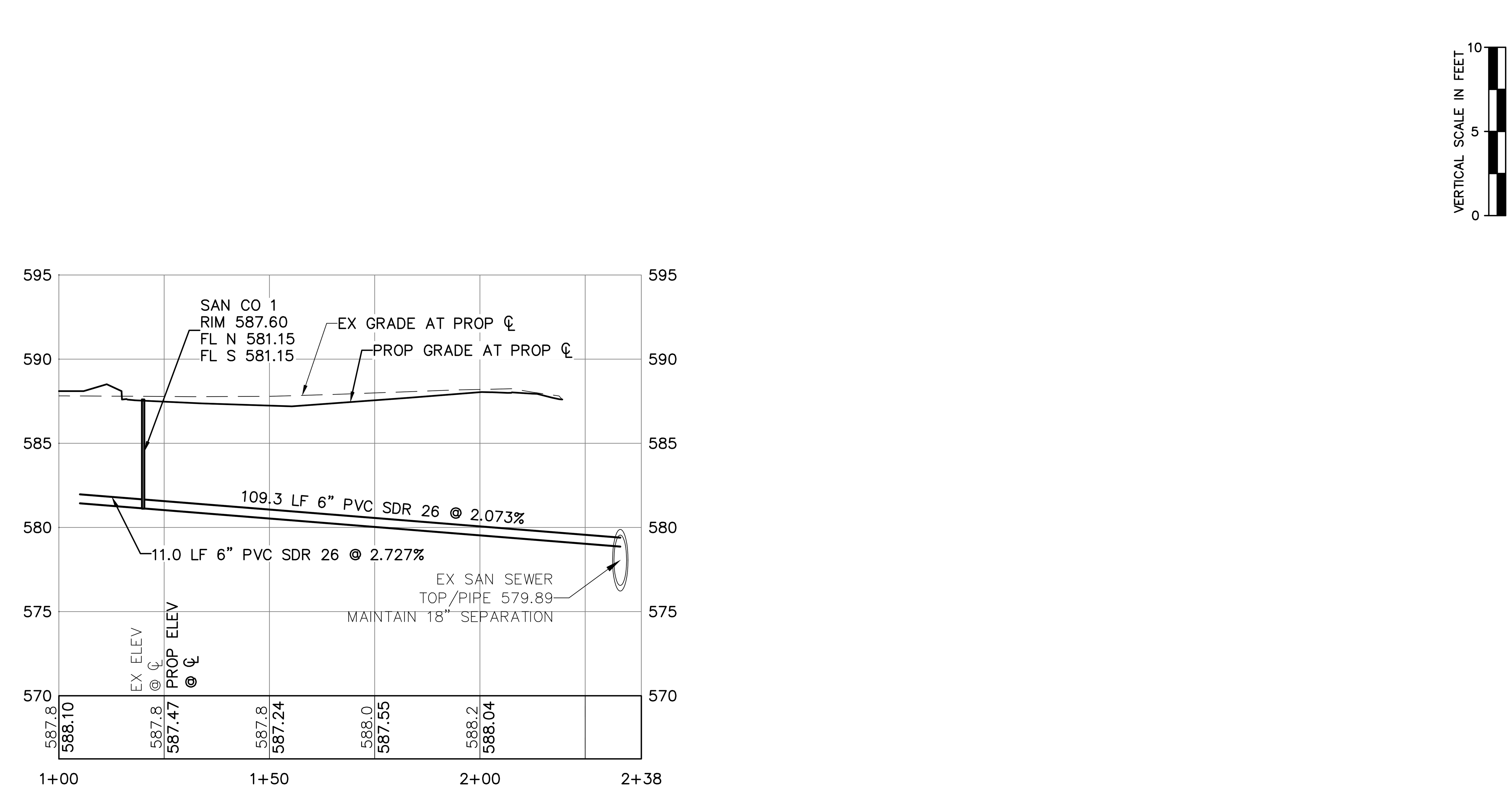
SANITARY DETAILS

C5.01





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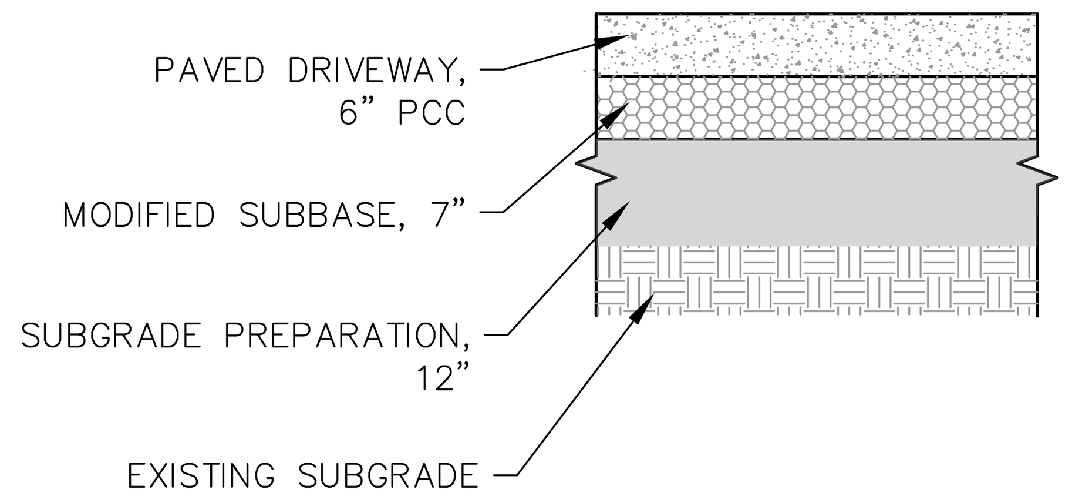
SANITARY PLAN AND PROFILE

C5.10



1 / C6.01 PCC PAVING, 6" PCC
PAVEMENT SECTION
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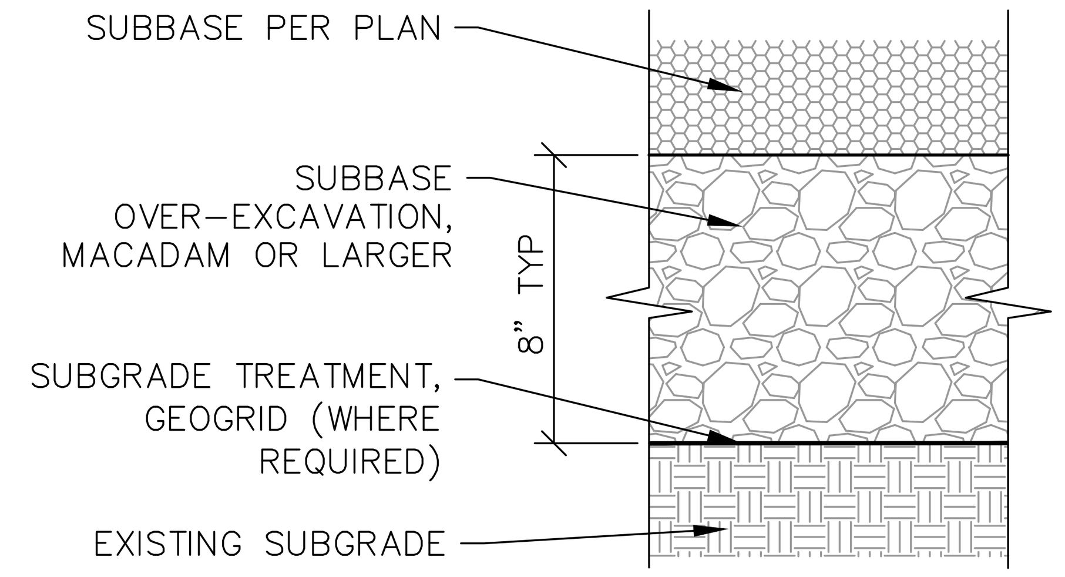
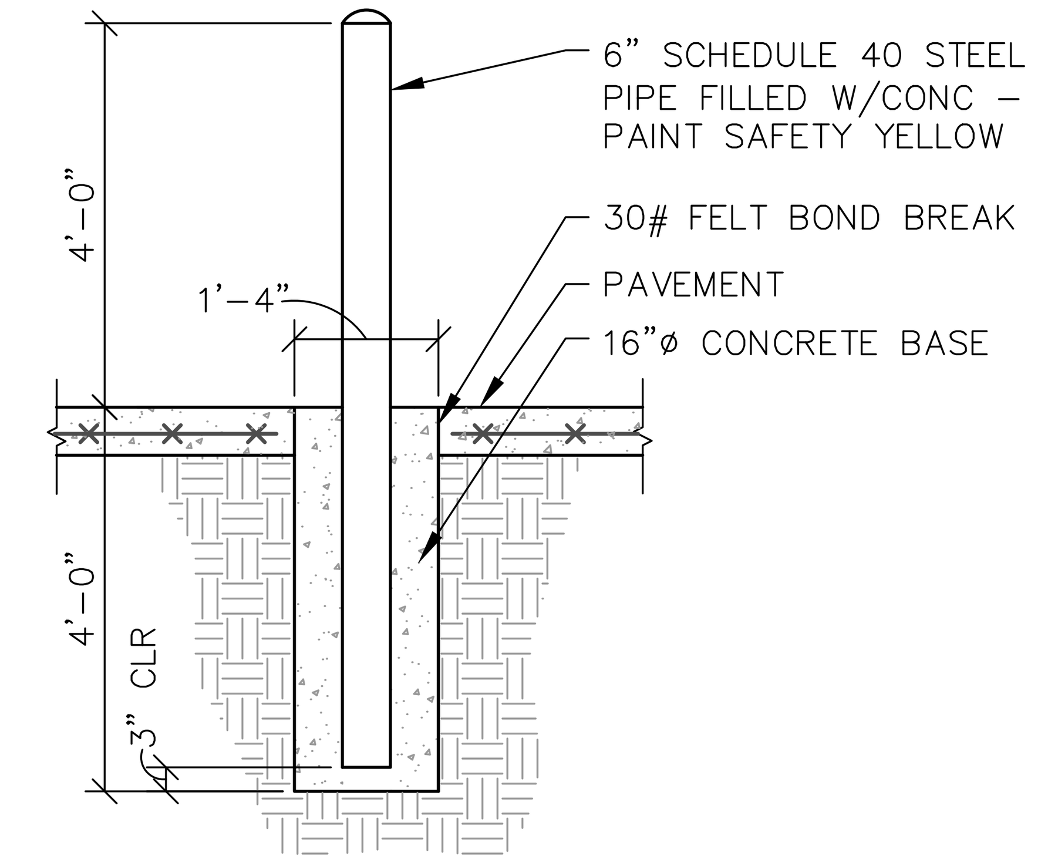


TO BE PLACED AT LOCATIONS AS DIRECTED BY THE ENGINEER WHERE SUBGRADE IS NOT STABLE AFTER PROOF-ROLLING.

ADDITIONAL OVER EXCAVATION MAY BE REQUIRED IF SUBGRADE CONDITION WARRANTS, IF APPROVED BY THE ENGINEER.

2 / C6.01 SUBGRADE STABILIZATION DETAIL
NOT TO SCALE



3 / C6.01 BOLLARD
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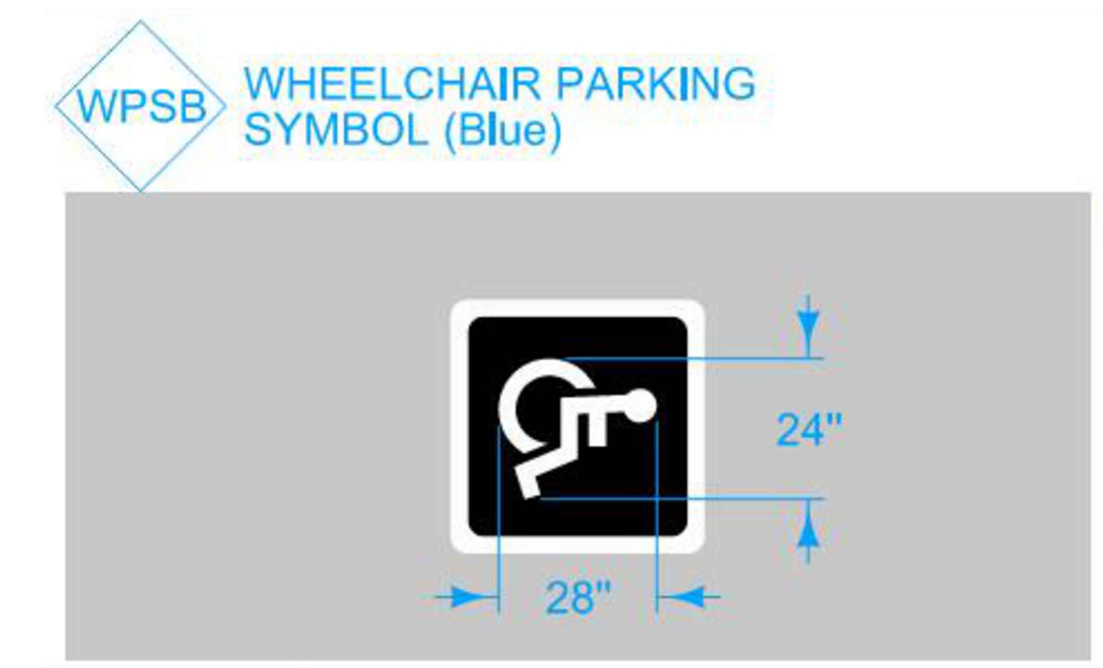

15 / C6.01 WHEELCHAIR PARKING SYMBOL
DETAIL
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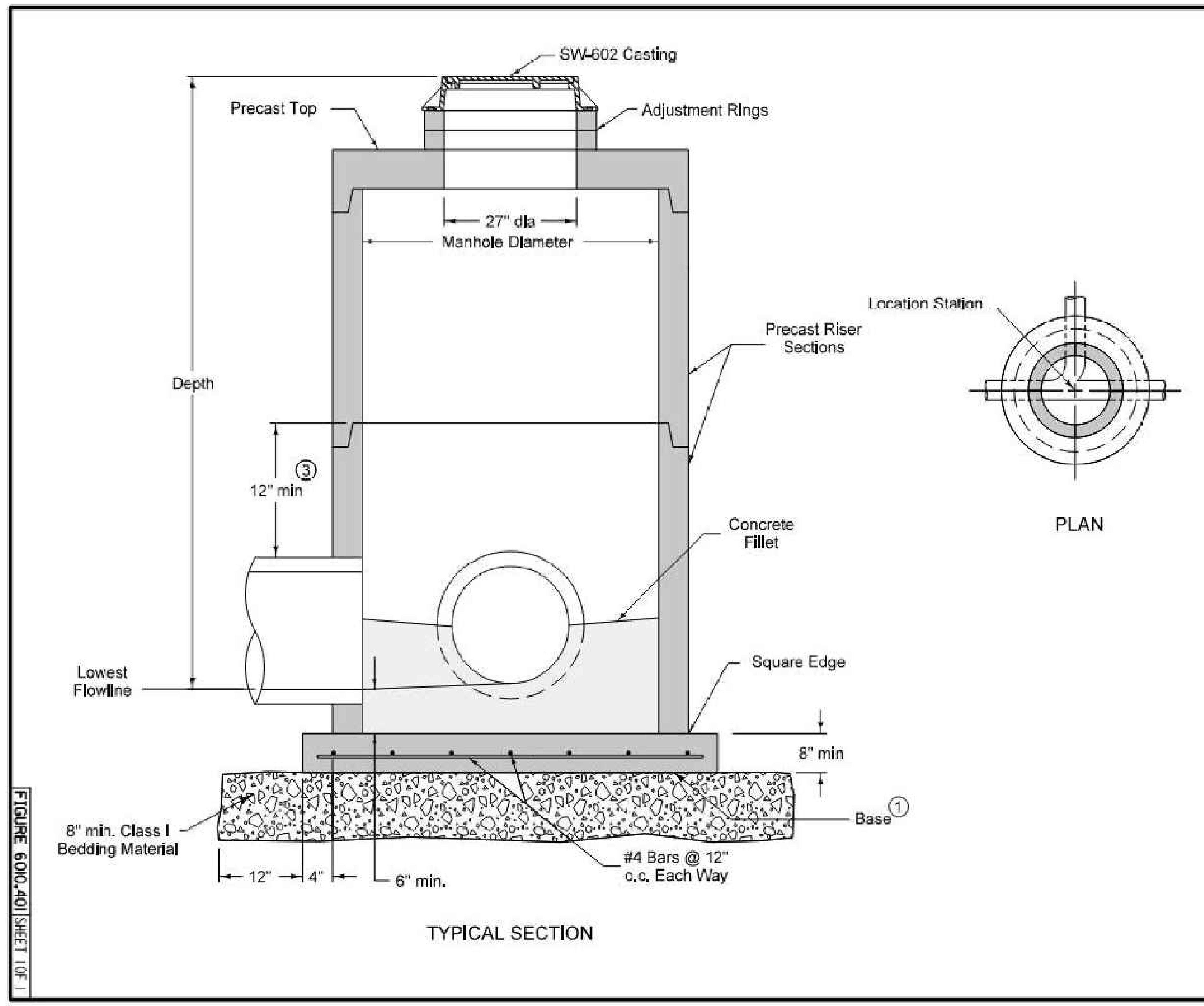


If manhole depth exceeds 20 feet, install steps.

1. Cast-in-place base shown. If base is precast integral with bottom riser, the footprint of the base is not required to extend beyond the outer edge of the riser.
2. For additional configurations, maintain a minimum of 12 inches of concrete between vertical edges of pipe openings.
3. 12 inch minimum riser height above all pipe openings.

Manhole Diameter (inches)	Maximum Pipe Diameter (inches) for 2 Pipes ②	
	At 180° Separation	At 90° Separation
48	24	18
60	36	24
72	42	30
84	48	36
96	60	42

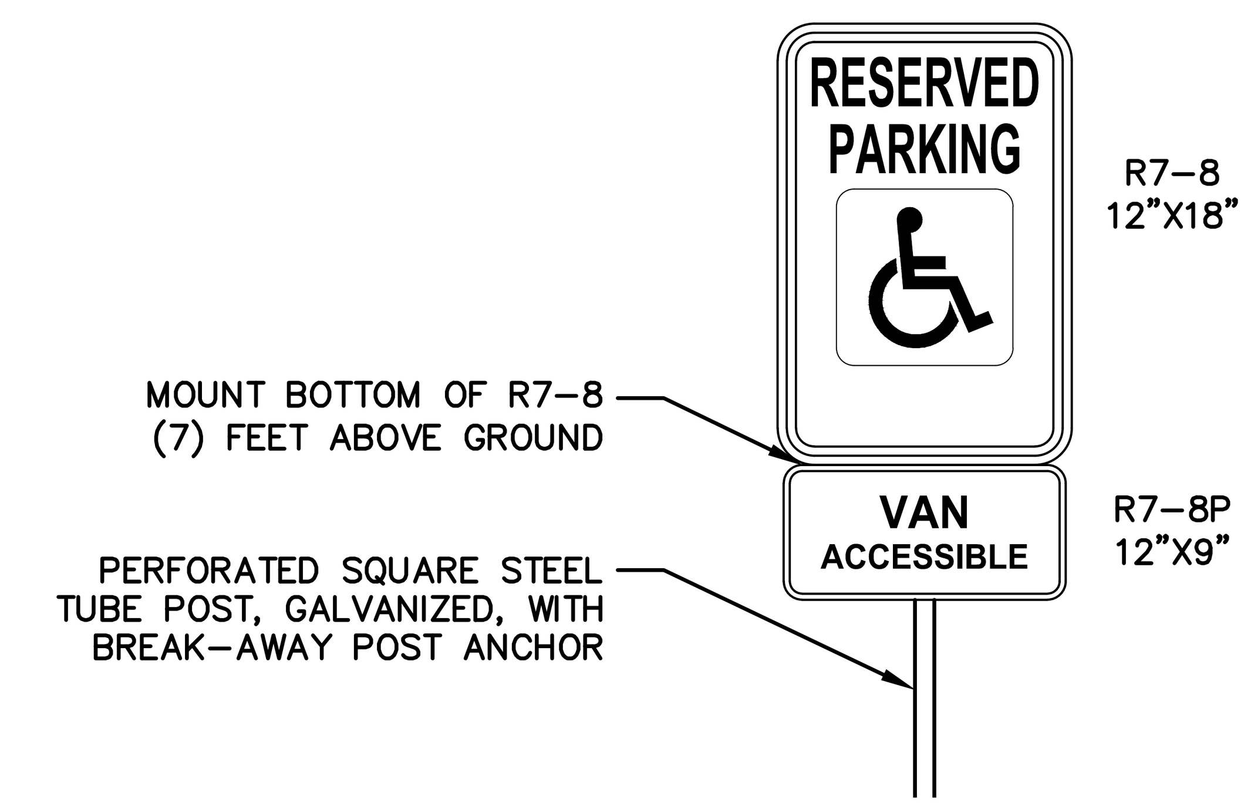
SUDAS	IOWADOT	REVISION 3 04-20-21
FIGURE 6010.401	STANDARD ROAD PLAN	SW-401 SHEET 1 of 1

REVISIONS: Added manhole depth note.

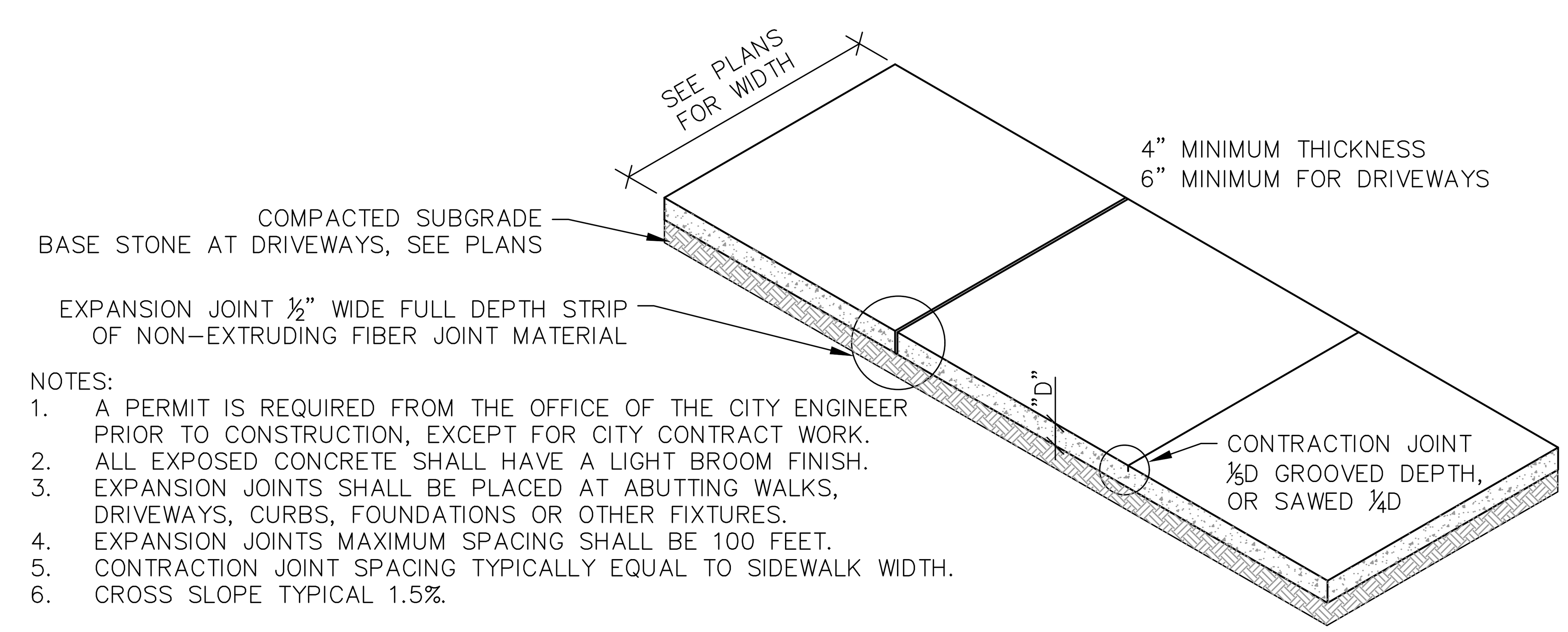
SUDAS DIRECTOR / DESIGN METHODS ENGINEER

CIRCULAR STORM SEWER MANHOLE

4 / C6.01 CIRCULAR STORM SEWER MANHOLE SW-401
DETAIL
NOT TO SCALE



20 / C6.01 ADA PARKING SIGNS, S1
DETAIL
NOT TO SCALE



NOTES:
1. A PERMIT IS REQUIRED FROM THE OFFICE OF THE CITY ENGINEER PRIOR TO CONSTRUCTION, EXCEPT FOR CITY CONTRACT WORK.
2. ALL EXPOSED CONCRETE SHALL HAVE A LIGHT BROOM FINISH.
3. EXPANSION JOINTS SHALL BE PLACED AT ABUTTING WALKS, DRIVEWAYS, CURBS, FOUNDATIONS OR OTHER FIXTURES.
4. EXPANSION JOINTS MAXIMUM SPACING SHALL BE 100 FEET.
5. CONTRACTION JOINT SPACING TYPICALLY EQUAL TO SIDEWALK WIDTH.
6. CROSS SLOPE TYPICAL 1.5%.

5 / C6.01 SIDEWALK
NOT TO SCALE

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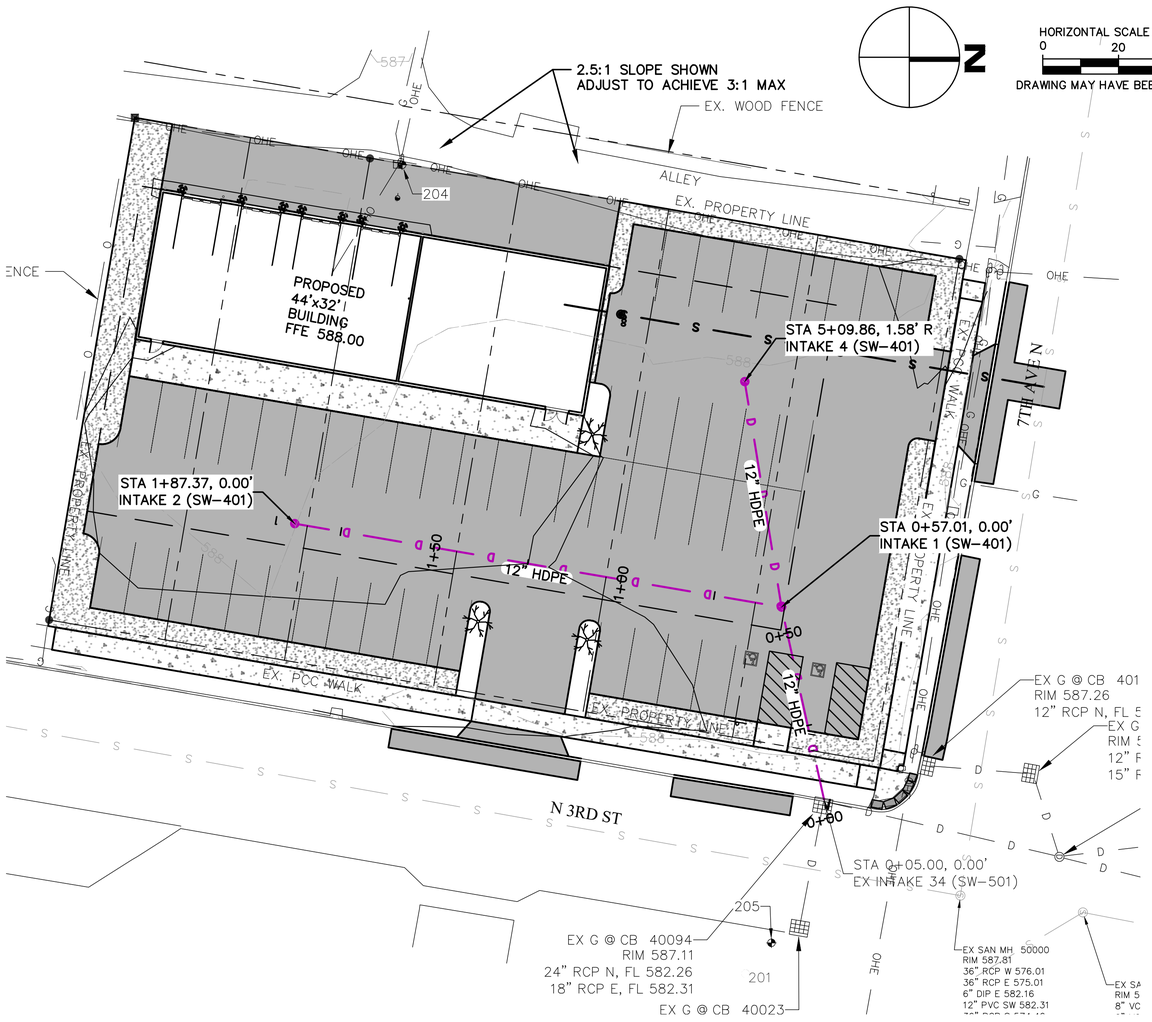
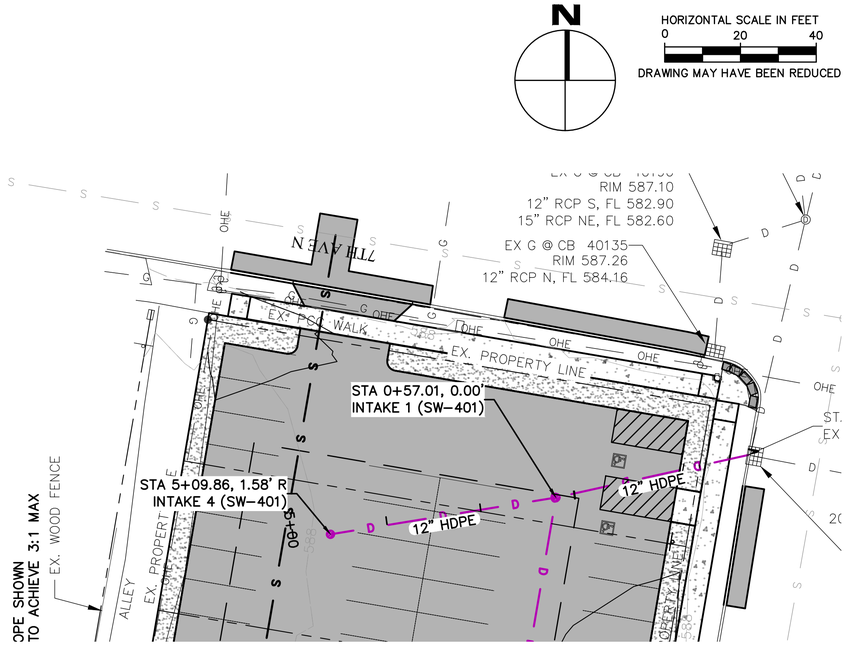
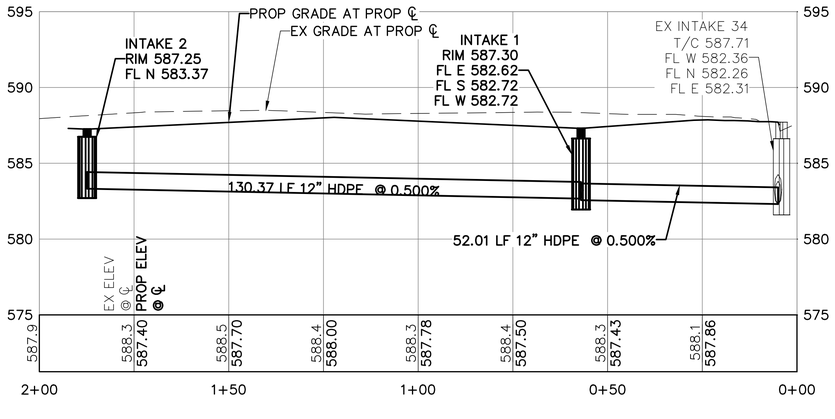
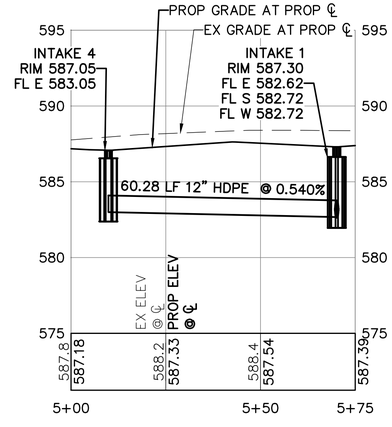
PAVING AND STORM SEWER DETAILS

C6.01









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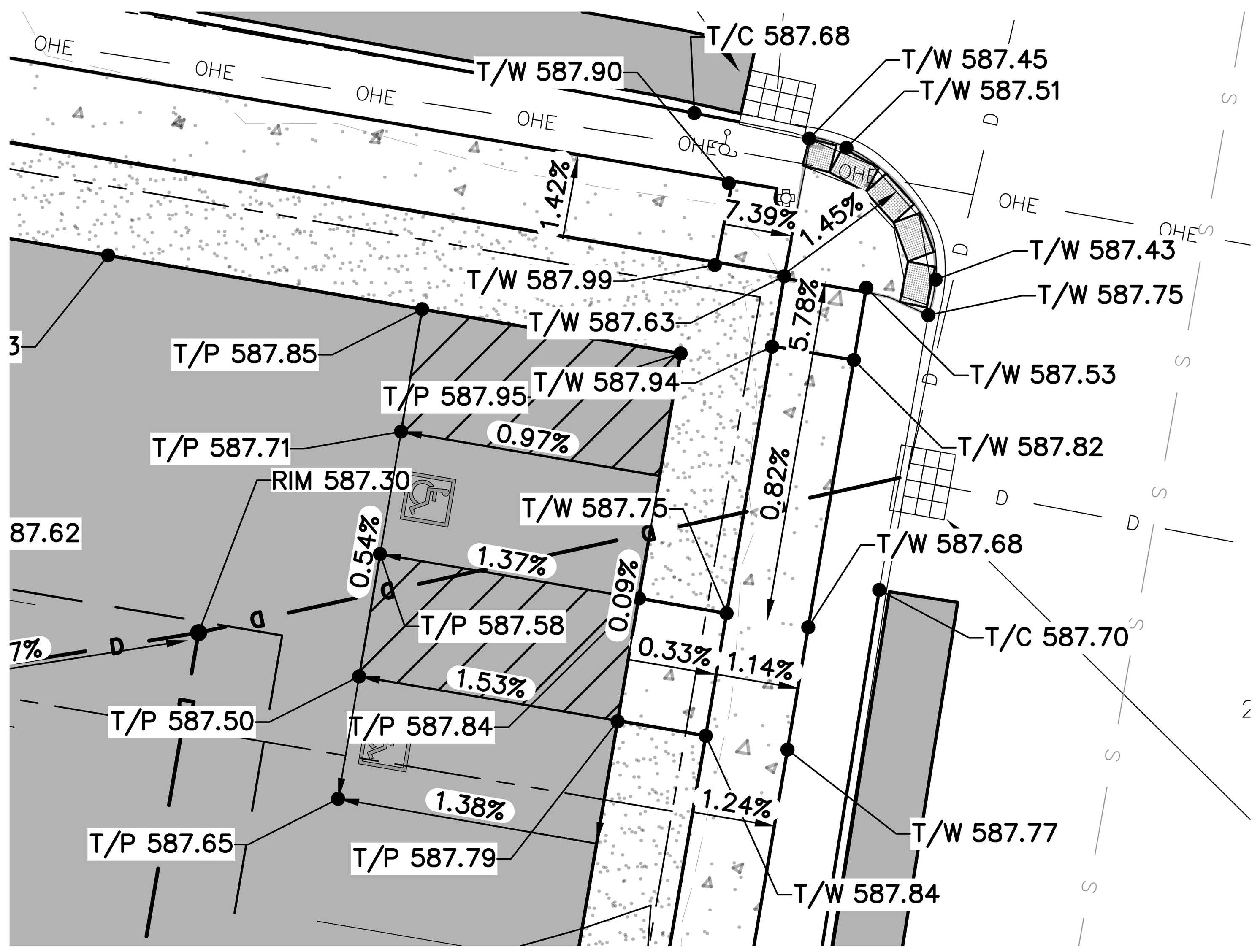
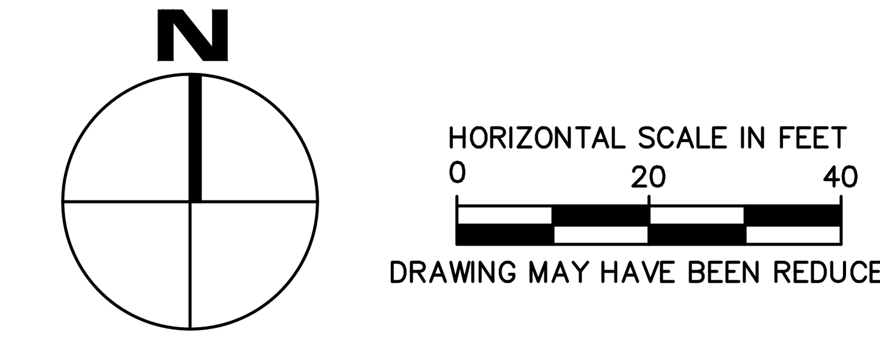
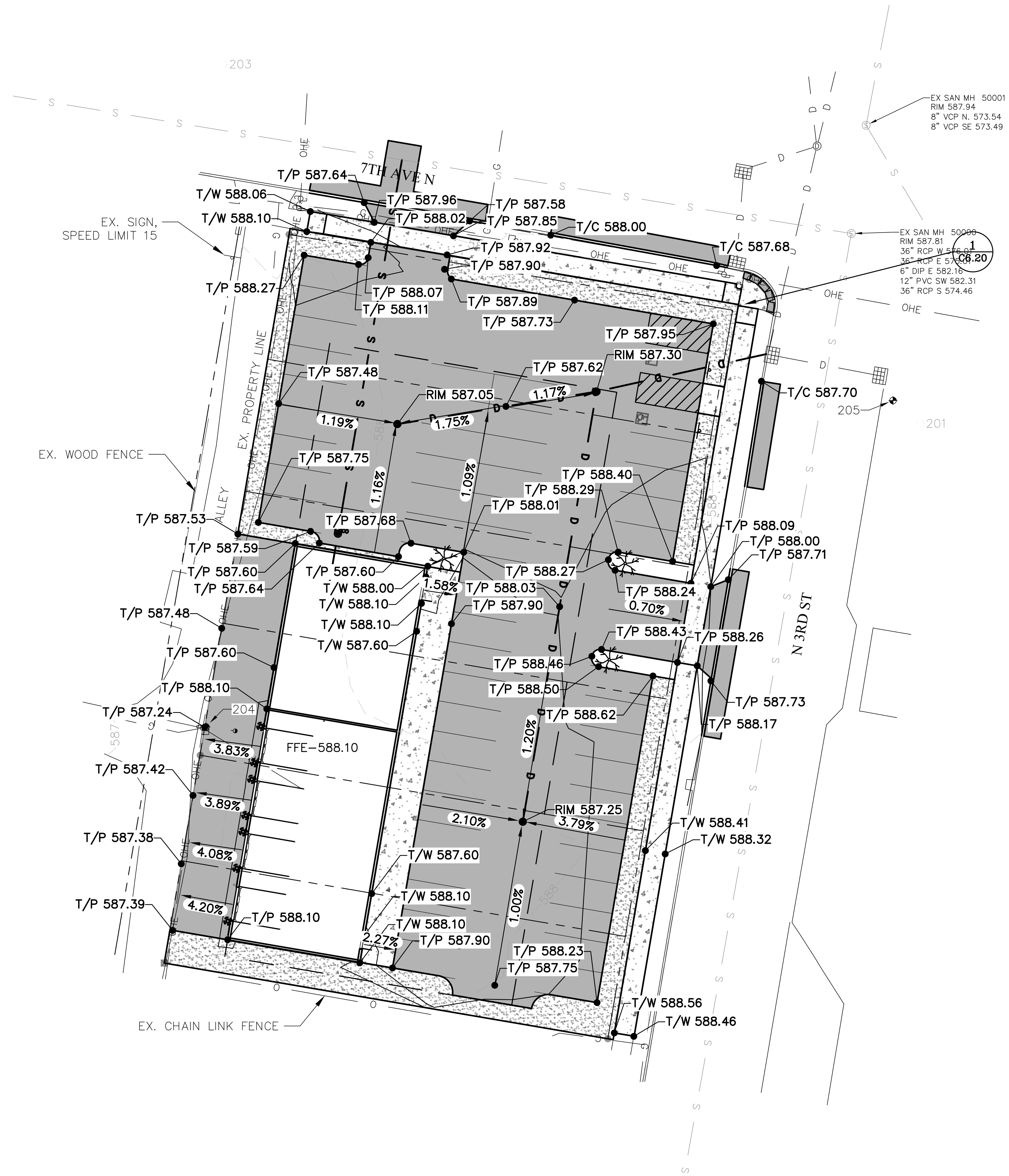
STORM
SEWER PLAN
AND PROFILE

C6.10



1 C6.20 ADA AREA ENLARGED PLAN 1"=10'





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PAVING PLAN

C6.20