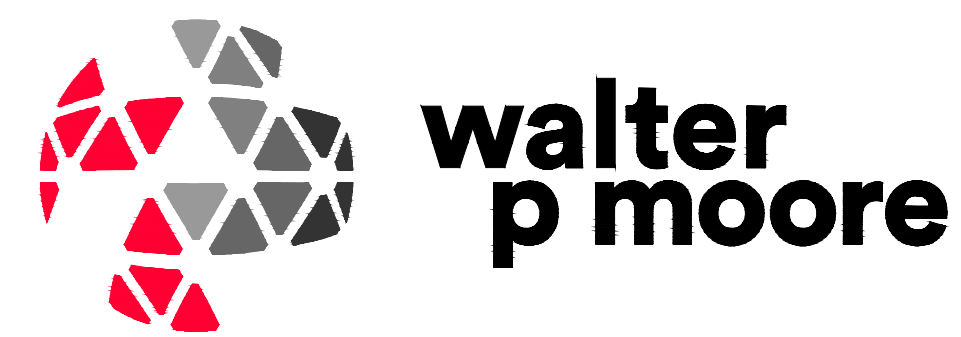


# CRIME LAB - EXTERIOR RENOVATIONS TROOP H HEADQUARTERS BUILDING ST. JOSEPH, MISSOURI



Walter P. Moore and Associates, Inc.  
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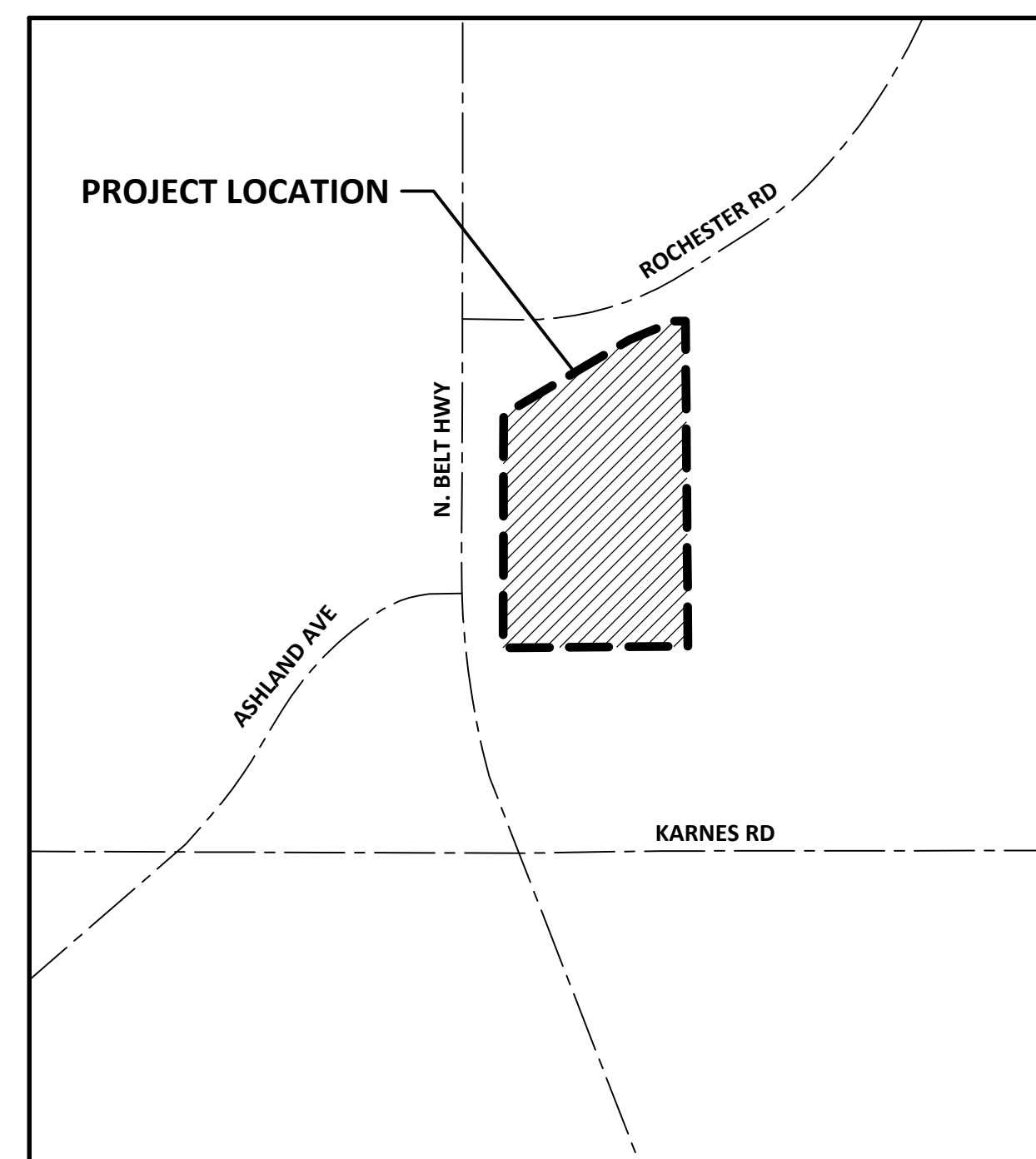
DESIGNER: WALTER P MOORE

OWNER: STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR  
  
MISSOURI STATE HIGHWAY PATROL

PROJECT NUMBER: R2338-01

PROJECT MANAGEMENT: OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES MANAGEMENT,  
DESIGN AND CONSTRUCTION

SITE NUMBER: 6009  
FACILITY NUMBER: 8136009002 & 8136009003



LOCATION MAP



3/28/2024  
SHEET NUMBER:

**G-001**

1 OF 35 SHEETS  
MARCH 28, 2024

**GENERAL NOTES**

- BOUNDARY AND TOPOGRAPHIC INFORMATION OBTAINED FROM A SURVEY BY LOVEFACE & ASSOCIATES, DATED 1/12/24, PREPARED SPECIFICALLY FOR THIS PROJECT.
- HORIZONTAL & VERTICAL CONTROL DATA:  
HORIZONTAL DATUM= MISSOURI STATE PLANE, WEST ZONE (NAD83)  
VERTICAL DATUM= NAVD88  
  
CPT-1 (FOUND BU-01 MONUMENT)  
N=1324006.39  
E=2700256.01  
ELEV=1065.28  
FOUND BU-01 MONUMENT APPROXIMATELY 27.03' EAST OF CURB ALONG N BELT HWY. AND 44.02' SOUTH WEST OF TELEPHONE MANHOLE.  
  
CPT-2 (SET 1/2" REBAR)  
N=1324224.97  
E=2700409.64  
ELEV=1061.58  
SET 1/2" NEAR THE NORTH WEST ENTRANCE OF SITE. 2.45' WEST OF EDGE OF ASPHALT AND 15.72' SOUTH EAST OF HIGHWAY PATROL SIGN.  
  
CPT-3 (SET 1/2" REBAR)  
N=1323759.12  
E=2700391.10  
ELEV=1062.91  
SET 1/2" IRON BAR SOUTH WEST OF THE MAIN TROOP BUILDING. 23.4' SOUTH EAST OF PARKING SIGN. 14.84' SOUTH OF ENTRANCE CURB. 36.20' SOUTH WEST OF NO TRESPASS SIGN.  
  
CPT-581 (FND 1/2" REBAR)  
N=1324283.07  
E=2700735.96  
ELEV=1050.95  
FOUND 1/2" IRON BAR AT THE NORTH EAST CORNER OF SITE. 6.67' SOUTH WEST OF ABBETT DR. CURB. 10.98' WEST OF SANITARY MANHOLE NUMBER 581
- CONTRACTORS ARE RESPONSIBLE FOR THEIR OWN HORIZONTAL AND VERTICAL CONTROL, REFERENCE POINTS AND CONSTRUCTION STAKING AS INCIDENTAL TO THE PROJECT.
- CONTRACTOR TO FIELD VERIFY ALL BOUNDARY AND TOPOGRAPHIC INFORMATION PRIOR TO BEGINNING WORK. CONTACT ENGINEER IF ACTUAL CONDITIONS VARY FROM THE PLANS.
- EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR TO FIELD VERIFY LOCATION OF ANY EXISTING UTILITIES AND OTHER FACILITIES BEFORE COMMENCING WORK. CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR BY HIS FAILURE TO LOCATE AND PRESERVE ANY AND ALL EXISTING FACILITIES.
- THE LENGTHS OF PROPOSED UNDERGROUND UTILITY LINES SHOWN ARE APPROXIMATE ONLY. LENGTHS OF LINES MAY VARY DUE TO FIELD CONDITIONS ENCOUNTERED AT THE TIME OF CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS NECESSARY FOR UTILITY LINES TO SERVE THEIR INTENDED PURPOSE AND SHALL BE RESPONSIBLE FOR THE REROUTING OF LINES WHICH MAY CONFLICT WITH OTHER UTILITIES AND SITE FEATURES.
- WATER METERS, UTILITY LINES AND APPURTENANCES, DRIVEWAYS, AND ALL OTHER ITEMS TO BE LOCATED WITHIN THE STREET RIGHT-OF-WAY OR A PUBLIC EASEMENT, ARE TO BE CONSTRUCTED IN STRICT ACCORDANCE WITH CURRENT GOVERNING CITY, COUNTY AND STATE STANDARDS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR NOTIFICATION OF ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS OR PERSONS IN CHARGE OF PRIVATE OR PUBLIC UTILITIES AFFECTED BY HIS OPERATIONS PRIOR TO COMMENCEMENT OF WORK.
- CONTRACTOR SHALL CONTACT MISSOURI ONE-CALL SYSTEM FOR UTILITY LOCATION AT LEAST TWO FULL WORKING DAYS BEFORE STARTING WORK.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL DOWNSTREAM EROSION AND SILTATION DURING ALL PHASES OF CONSTRUCTION.

**GRADING NOTES**

- FINISHED EARTHEN SLOPES SHALL BE NO STEEPER THAN 1 FT. VERTICAL TO 3 FT. HORIZONTAL.
- SLOPES IN HANDICAP PARKING STALLS AND ACCESSIBLE AISLES SHALL NOT EXCEED 2.0% SLOPE IN ANY DIRECTION.
- FINISHED GRADES SHOWN ON PLANS ARE TO BE THE FINAL ELEVATIONS OF ALL WORK, INCLUDING PAVEMENT AND LANDSCAPING.

**PAVING CONSTRUCTION NOTES**

- ALL ROAD WIDTHS, RADII AND ALIGNMENT SHOWN INDICATE BACK OF CURB OR EDGE OF PAVEMENT WHICHEVER IS APPLICABLE.
- CONCRETE SHALL BE PORTLAND CEMENT CONCRETE AND HAVE A COMPRESSIVE STRENGTH OF 4,000 PSI MINIMUM AT 28 DAYS. REINFORCING SHALL CONFORM TO ASTM A615.
- EXISTING PAVING, IN PUBLIC STREET RIGHTS-OF-WAY OR EASEMENTS, DAMAGED BY CONSTRUCTION SHALL BE REPAIRED AS PER CITY STANDARDS, AS APPLICABLE. ALL OTHER EXISTING PAVING, NOT SHOWN TO BE REMOVED, DAMAGED BY CONSTRUCTION SHALL BE REPLACED TO MATCH EXISTING OR BETTER.
- EXISTING CURBS, SIDEWALKS, AND DRIVEWAYS IN PUBLIC STREET RIGHTS-OF-WAY OR EASEMENTS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO CITY STANDARDS. ALL OTHER CURBS, SIDEWALKS AND DRIVEWAYS, NOT SHOWN TO BE REMOVED, DAMAGED BY CONSTRUCTION SHALL BE REPLACED TO MATCH EXISTING OR BETTER.
- PLACE 1/2" EXPANSION JOINT MATERIAL AND JOINT SEALANT BETWEEN ALL SIDEWALKS AND BUILDINGS AND BETWEEN ALL SIDEWALKS AND BACK OF CURB.

**TRAFFIC CONSTRUCTION NOTES**

- CONTRACTOR TO BE RESPONSIBLE FOR PROVIDING, INSTALLING AND MAINTAINING ALL BARRICADES, WARNING SIGNS, FLASHING LIGHTS AND TRAFFIC CONTROL DEVICES DURING CONSTRUCTION.
- ALL TRAFFIC CONTROL SHALL BE IN CONFORMANCE WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

**STORM SEWER CONSTRUCTION NOTES**

- ALL STORM SEWERS SHALL RECEIVE BEDDING AND BACKFILL IN ACCORDANCE WITH THE DETAILS CONTAINED IN THE PLANS. STORM SEWERS WITHIN PUBLIC STREET RIGHTS-OF-WAY OR EASEMENTS SHALL RECEIVE BEDDING AND BACKFILL IN ACCORDANCE WITH CITY STANDARDS.
- STORM SEWER CONSTRUCTION, INCLUDING INLETS, MANHOLES AND JUNCTION BOXES OUTSIDE OF PUBLIC STREET RIGHTS-OF-WAY OR EASEMENTS TO BE IN ACCORDANCE WITH THE DETAILS CONTAINED IN THE PLANS. STORM SEWER CONSTRUCTION WITHIN PUBLIC STREET RIGHTS-OF-WAY OR EASEMENTS TO BE IN ACCORDANCE WITH CITY STANDARDS.
- WHERE MANHOLES, INLET STRUCTURES, OR JUNCTION BOXES ARE LOCATED WITHIN PAVED AREAS, CONTRACTOR SHALL SET RIM ELEVATIONS TO MATCH TOP OF PAVEMENT ELEVATIONS. OUTSIDE OF PAVED AREAS, SET MANHOLE RIMS AND TOP OF GRATE AT ELEVATIONS SHOWN ON THE PLANS.
- CONTRACTOR TO ALLOW A MINIMUM OF 6-INCH VERTICAL CLEARANCE BETWEEN OUTSIDE OF STORM SEWER PIPE OR STRUCTURE AND OTHER EXISTING OR PROPOSED UTILITIES.
- IN EVERY CASE WHERE TRENCHES HAVE BEEN EXCAVATED BELOW THE SPECIFIED DEPTH FOR REQUIRED BEDDING, THE PIPE BEDDING SHALL START AT THE BOTTOM OF SAID EXCAVATION.
- PRIOR TO ORDERING PRECAST STRUCTURES, SHOP DRAWINGS SHALL BE SUBMITTED TO THE DESIGN ENGINEER FOR REVIEW.

**TYPICAL CIVIL ABBREVIATIONS**

@	- AT	m	- METER
&	- AND	MATL	- MATERIAL
AC	- ASPHALTIC CONCRETE	MAX	- MAXIMUM
A.D.	- ALGERBRADIC DIFFERENCE	MECH	- MECHANICAL
ADA	- AMERICANS WITH DISABILITIES ACT	MFR	- MANUFACTURER
ADDL	- ADDITIONAL	MH	- MANHOLE
ADJ	- ADJACENT	MIN	- MINIMUM
ALT	- ALTERNATE	MISC	- MISCELLANEOUS
ANSI	- AMERICAN NATIONAL STANDARDS INSTITUTE	MUTCD	- MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
APWA	- AMERICAN PUBLIC WORKS ASSOCIATION	NA	- NOT APPLICABLE
APPROX	- APPROXIMATE	NIC	- NOT IN CONTRACT
ARCH	- ARCHITECTURAL	NO	- NUMBER
ASI	- ARCHITECT'S SUPPLEMENTAL INSTRUCTION	NTS	- NOT TO SCALE
ASPH	- ASPHALT	OC	- ON CENTER
ASTM	- AMERICAN SOCIETY OF TESTING AND MATERIALS	OF	- OUTSIDE FACE
AWWA	- AMERICAN WATER WORKS ASSOCIATION	OPNG	- OPENING
BLDG	- BUILDING	PAR	- PARALLEL
BM	- BENCHMARK	PC	- POINT OF CURVATURE
BOT	- BOTTOM	PERF	- PERFORATED
C	- CHANNEL	PERP	- PERPENDICULAR
c	- COEFFICIENT	PI	- POINT OF INTERSECTION
CANTIL	- CANTILEVER	ϵ	- PROPERTY LINE
CI	- CURB INLET	PSF	- POUNDS PER SQUARE FOOT
CJ	- CONTROL JOINT	PSI	- POUNDS PER SQUARE INCH
ϵ	- CENTER LINE	PVC	- POINT OF CURVATURE ON VERTICAL CURVE
CLR	- CLEAR	PVC	- POLYVINYL CHLORIDE PIPE
CMP	- CORRUGATED METAL PIPE	PVT	- POINT OF TANGENCY ON VERTICAL CURVE
CN	- CURVE NUMBER	QTR	- QUARTER
CO	- CLEANOUT	QTY	- QUANTITY
CONC	- CONCRETE	R	- RADIUS
CONST	- CONSTRUCTION	RCB	- REINFORCED CONCRETE BOX
CONT	- CONTINUOUS	RCP	- REINFORCED CONCRETE PIPE
CTRS	- CENTERS	RD	- ROOF DRAIN
CU FT	- CUBIC FEET	REBAR	- REINFORCING STEEL BARS
CU YD	- CUBIC YARD	RE:	- REFERENCE
DEG	- DEGREE	REIN	- REINFORCE
DEPT	- DEPARTMENT	REQ	- REQUIRE
DET	- DETAIL	REQD	- REQUIRED
DIA	- DIAMETER	REV	- REVISION
DIAG	- DIAGONAL	RFI	- REQUEST FOR INFORMATION
DIM	- DIMENSION	R/W	- RIGHT OF WAY
DIP	- DUCTILE IRON PIPE	ROW	- RIGHT OF WAY
DN	- DOWN	SAN	- SANITARY
DS	- DOWNSPOUT	SCHED	- SCHEDULE
DWG	- DRAWING	SECT	- SECTION
EA	- EACH	SF	- SQUARE FEET
EF	- EACH FACE	SHT	- SHEET
EJ	- EXPANSION JOINT	SIM	- SIMILAR
EL	- ELEVATION	SPA	- SPACING
EQ	- EQUAL	SPECS	- SPECIFICATIONS
EQUIP	- EQUIPMENT	SQ	- SQUARE
ESMT	- EASEMENT	SQ YD	- SQUARE YARD
EW	- EACH WAY	STA	- STATION
EXIST	- EXISTING	STD	- STANDARD
FDN	- FOUNDATION	STL	- STEEL
FF EL	- FINISH FLOOR ELEVATION	STL PL	- STEEL PLATE
FH	- FIRE HYDRANT	STIR	- STIRRUP
FIN	- FINISH	STRUCT	- STRUCTURAL
ϵ	- FLOW LINE	SURV	- SURVEY
FT	- FEET	STM	- SYMMETRICAL
FTG	- FOOTING	T&B	- TOP AND BOTTOM
FUT	- FUTURE	THRU	- THROUGH
GA	- GAGE	TOB	- TOP AND BOTTOM
GALV	- GALVANIZED	TOC	- TOP OF CONCRETE
GEN	- GENERAL	TOP	- TOP OF FOOTING
gpd	- GALLONS PER DAY	TOW	- TOP OF WALL
gpm	- GALLONS PER MINUTE	TYP	- TYPICAL
HC	- HANDICAP	UNO	- UNLESS OTHERWISE NOTED
HDPE	- HIGH DENSITY POLYETHYLENE	VC	- VERTICAL CURVE
HK	- HOOK	VCP	- VITRIFIED CLAY PIPE
HORIZ	- HORIZONTAL	VERT	- VERTICAL
IF	- INSIDE FACE	W/	- WITH
INCL	- INCLUDED	W/O	- WITHOUT
J-BOX	- JUNCTION BOX	WL	- WATER LINE
JT	- JOINT	WM	- WATER METER
K	- RATE OF VERTICAL CURVATURE	WWM	- WIELDED WIRE FABRIC
LBS	- POUND	YD	- YARD DRAIN
LF	- LINEAR FEET	YH	- YARD HYDRANT

**SHEET INDEX**

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C-102	CONSTRUCTION PHASING PLAN
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C-107	CIVIL SITE LAYOUT PLAN
C-108	CIVIL SITE LAYOUT PLAN
C-109	CIVIL SITE LAYOUT PLAN
C-110	CIVIL SITE LAYOUT PLAN
C-111	CIVIL SITE PAVEMENT JOINT PLAN
C-112	CIVIL SITE PAVEMENT JOINT PLAN
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C-118	CIVIL SITE GRADING PLAN
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C-501	CIVIL SITE DETAILS
C-502	CIVIL SITE DETAILS
E-000	ELECTRICAL LEGEND & GENERAL NOTES
E-100	ELECTRICAL DEMO PLAN
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MISSOURI STATE HIGHWAY  
PATROL

CRIME LAB - EXTERIOR  
RENOVATIONS  
TROOP H HEADQUARTERS  
BUILDING

ST. JOSEPH, MISSOURI

PROJECT # R-2338-01  
SITE # 6009  
FACILITY # 8136009002 &  
8136009003

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: \_\_\_\_\_

CAD DWG FILE: G-002.dwg  
DRAWN BY: DMB  
CHECKED BY: MJH  
DESIGNED BY: LF

SHEET TITLE:

GENERAL NOTES  
& SHEET INDEX

SHEET NUMBER:

G-002

2 OF 35 SHEETS  
03/28/2024





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DATE: \_\_\_\_\_

ISSUE DATE: \_\_\_\_\_

CAD DWG FILE: C-101.dwg  
DRAWN BY: DMB  
CHECKED BY: MJH  
DESIGNED BY: LF

SHEET TITLE:  
**OVERALL PLAN**

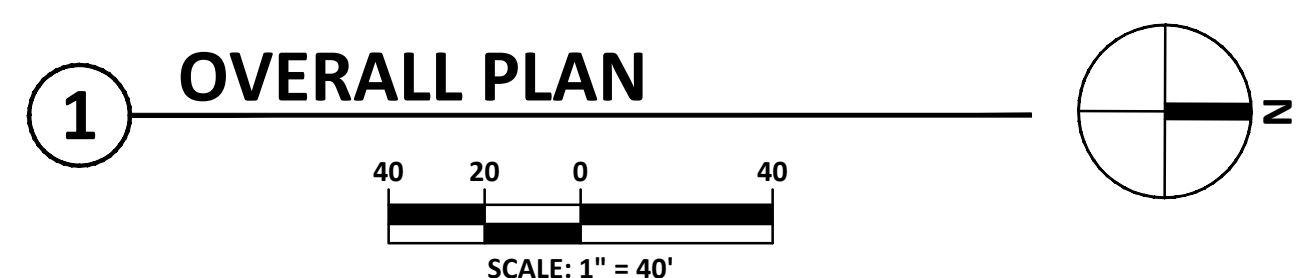
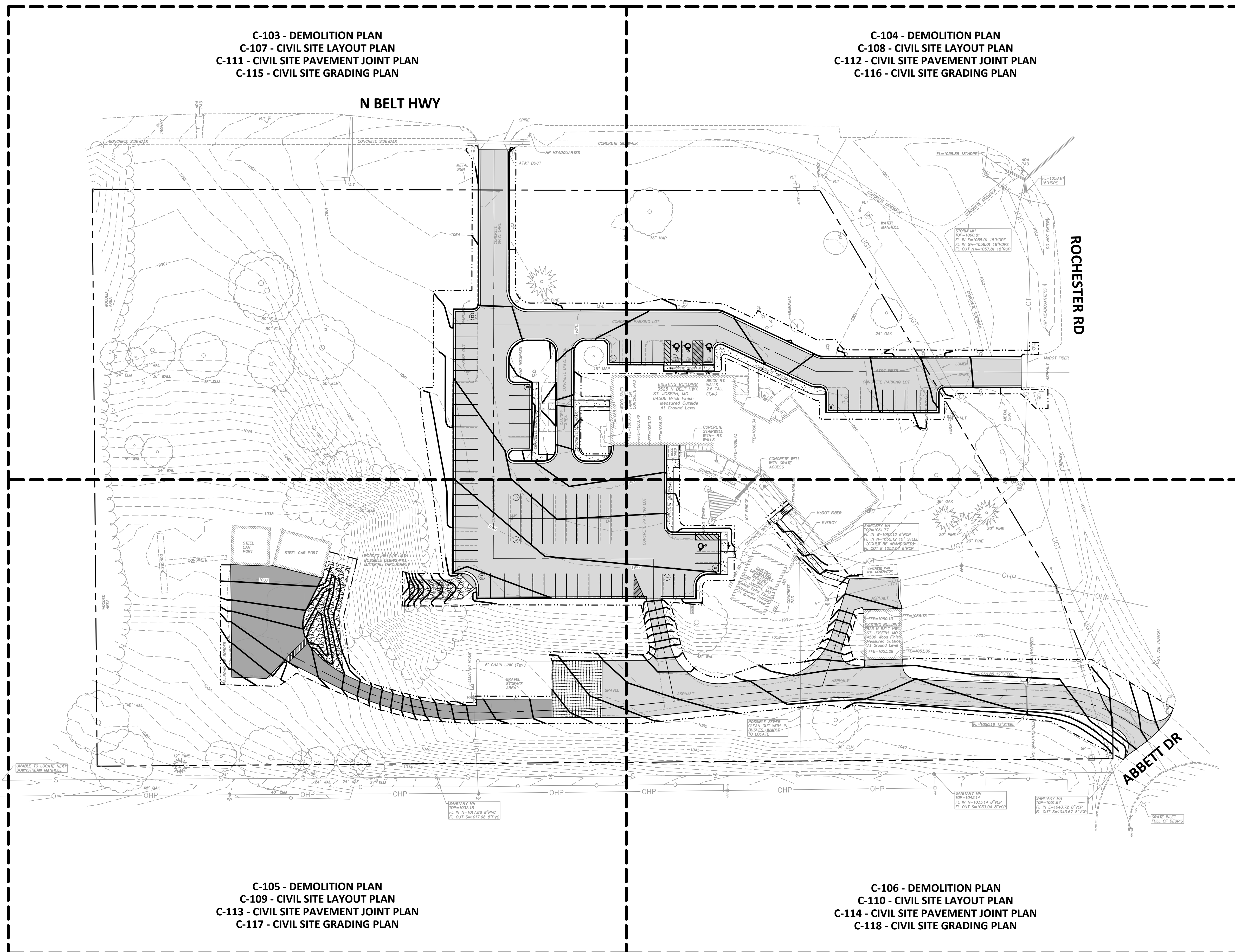
SHEET NUMBER:

**C-101**

3 OF 35 SHEETS  
03/28/2024

Troop H Headquarters Parking Count	
Zoning/Code:	Required Off-Street Parking Ratio
Commercial: Professional Office	4 /1000 sqft. of gross floor area
Existing Building:	18,200 sq. ft.
Required Parking:	73
Existing Spaces (Standard)	67
Existing ADA Spaces	3
Total Existing Spaces (ADA included)	70
Proposed Parking Spaces (Standard)	79
Proposed ADA Spaces	4*
Total Proposed Spaces (ADA included)	83

\*One existing standard space to become ADA compliant



C-103 - DEMOLITION PLAN  
C-107 - CIVIL SITE LAYOUT PLAN  
C-111 - CIVIL SITE PAVEMENT JOINT PLAN  
C-115 - CIVIL SITE GRADING PLAN

C-104 - DEMOLITION PLAN  
C-108 - CIVIL SITE LAYOUT PLAN  
C-112 - CIVIL SITE PAVEMENT JOINT PLAN  
C-116 - CIVIL SITE GRADING PLAN

C-105 - DEMOLITION PLAN  
C-109 - CIVIL SITE LAYOUT PLAN  
C-113 - CIVIL SITE PAVEMENT JOINT PLAN  
C-117 - CIVIL SITE GRADING PLAN

C-106 - DEMOLITION PLAN  
C-110 - CIVIL SITE LAYOUT PLAN  
C-114 - CIVIL SITE PAVEMENT JOINT PLAN  
C-118 - CIVIL SITE GRADING PLAN



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DATE: \_\_\_\_\_

ISSUE DATE: \_\_\_\_\_

CAD DWG FILE: C-102.dwg  
DRAWN BY: DMB  
CHECKED BY: MJH  
DESIGNED BY: LF

SHEET TITLE:  
**CONSTRUCTION  
PHASING PLAN**

SHEET NUMBER:

**C-102**

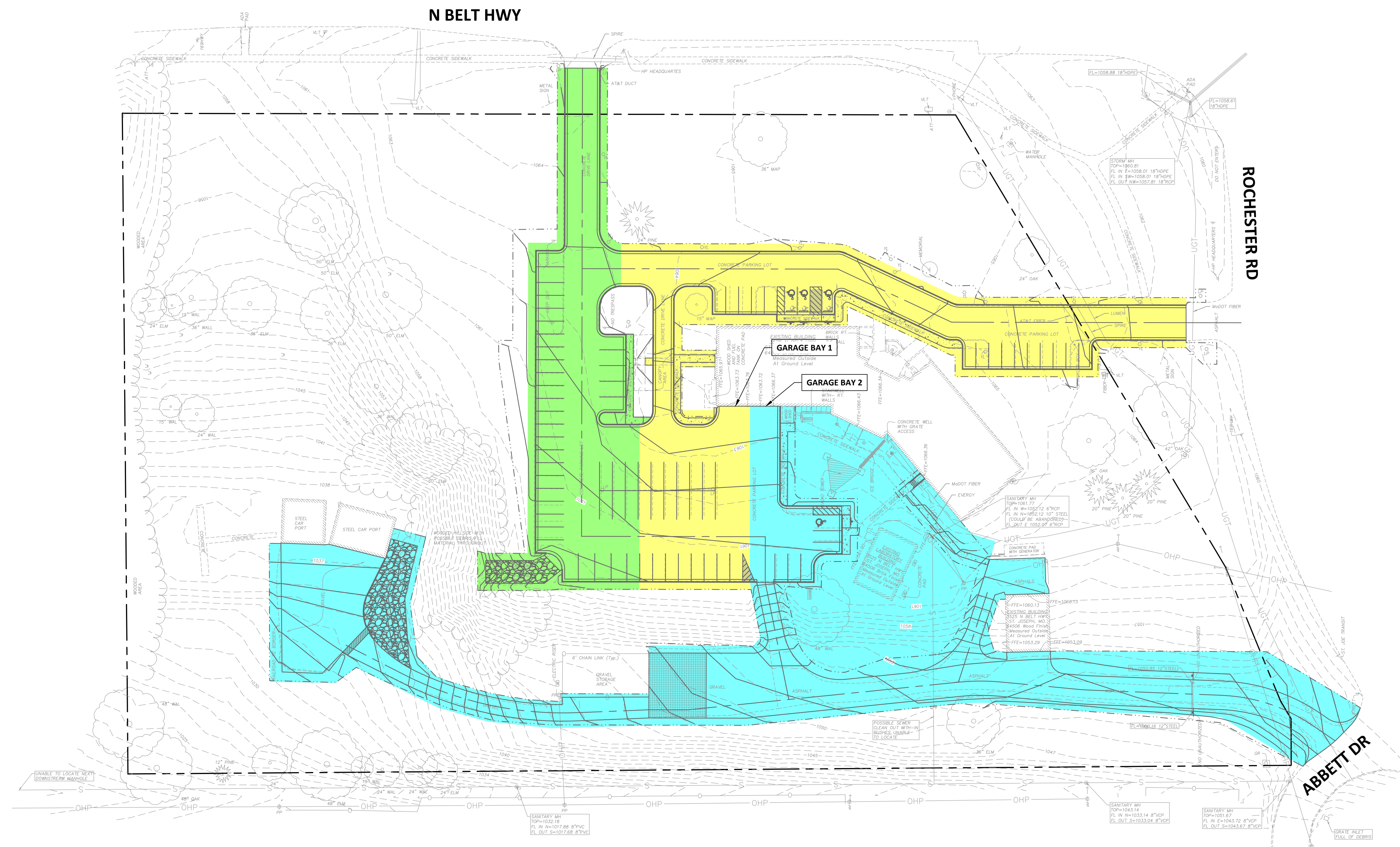
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03/28/2024

**PHASING LEGEND**

- PHASE 1
- PHASE 2
- PHASE 3

**PHASING REQUIREMENTS:**

1. AT LEAST ONE BAY AT MAINTENANCE GARAGE TO REMAIN OPEN THROUGHOUT CONSTRUCTION.
2. MINIMUM OF 40 PARKING SPACES TO BE AVAILABLE DURING ALL PHASES OF CONSTRUCTION.
3. CONTRACTOR HAS FLEXIBILITY TO PROVIDE ALTERNATE CONSTRUCTION PHASING SEQUENCE FOR REVIEW.



**1 CONSTRUCTION PHASING PLAN**

SCALE: 1" = 40'



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ISSUE DATE: \_\_\_\_\_

CAD DWG FILE: C-103.dwg  
DRAWN BY: DMB  
CHECKED BY: MJH  
DESIGNED BY: LF

SHEET TITLE:  
DEMOLITION  
PLAN

SHEET NUMBER:

C-103

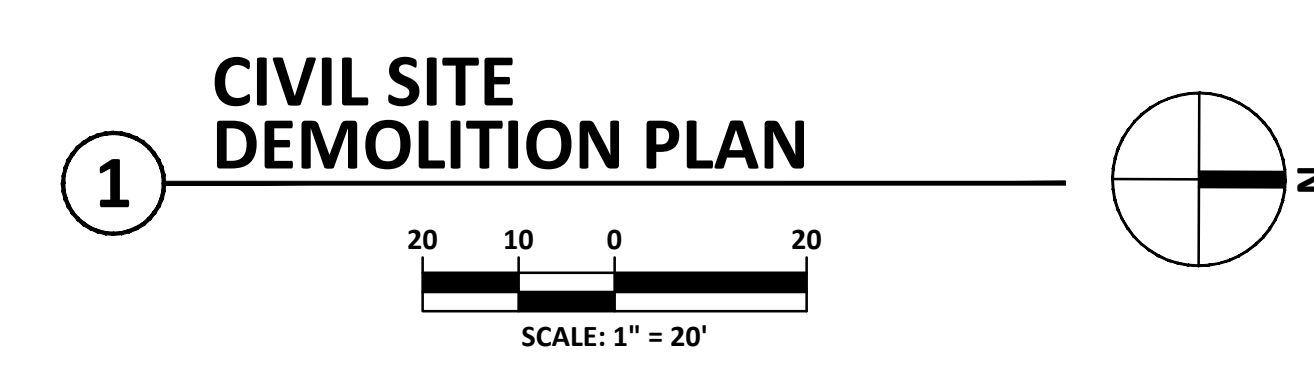
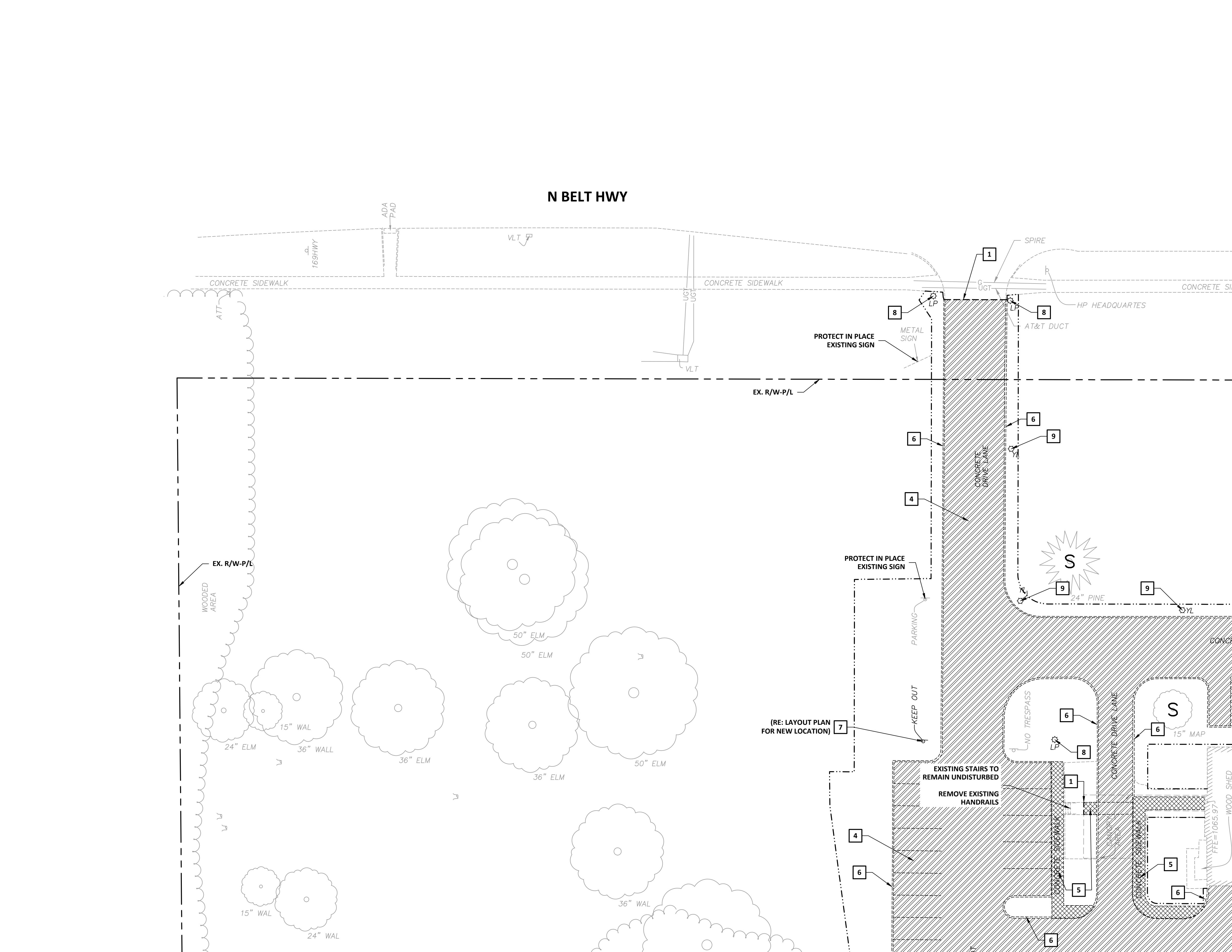
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03/28/2024

DEMOLITION LEGEND & KEYNOTES

- REMOVE TREE AND BUSHES
- PROTECT TREE
- APPROXIMATE PROJECT/GRADING LIMITS
- INDICATES ITEMS TO BE REMOVED
- SAWCUT
- REMOVE ASPHALT PAVEMENT
- REMOVE GRAVEL
- REMOVE CONCRETE PAVEMENT
- REMOVE WALK
- REMOVE CURB
- REMOVE AND RELOCATE SIGN
- REMOVE & REPLACE LIGHT POLE (RE: ELECTRICAL PLANS)
- REMOVE & REPLACE LIGHTING (RE: ELECTRICAL PLANS)
- REMOVE STORM SEWER PIPING

NOTES:

1. LIMITS & LOCATION OF EXISTING IRRIGATION SYSTEM ARE UNKNOWN AND NOT SHOWN. PROTECT EXISTING SYSTEM WHERE POSSIBLE & REPLACE SYSTEM WHERE NECESSARY.





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DATE: \_\_\_\_\_  
ISSUE DATE: \_\_\_\_\_

CAD DWG FILE: C-104.dwg  
DRAWN BY: DMB  
CHECKED BY: MJH  
DESIGNED BY: LF

SHEET TITLE:  
DEMOLITION  
PLAN

SHEET NUMBER:

C-104

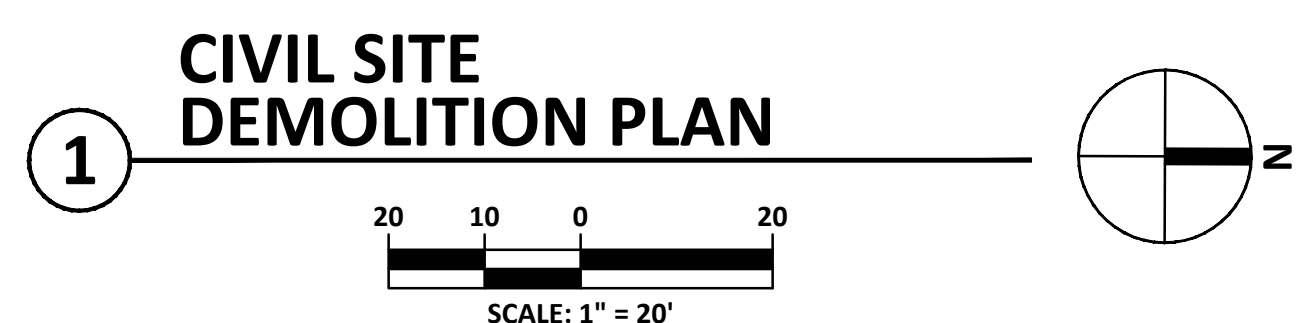
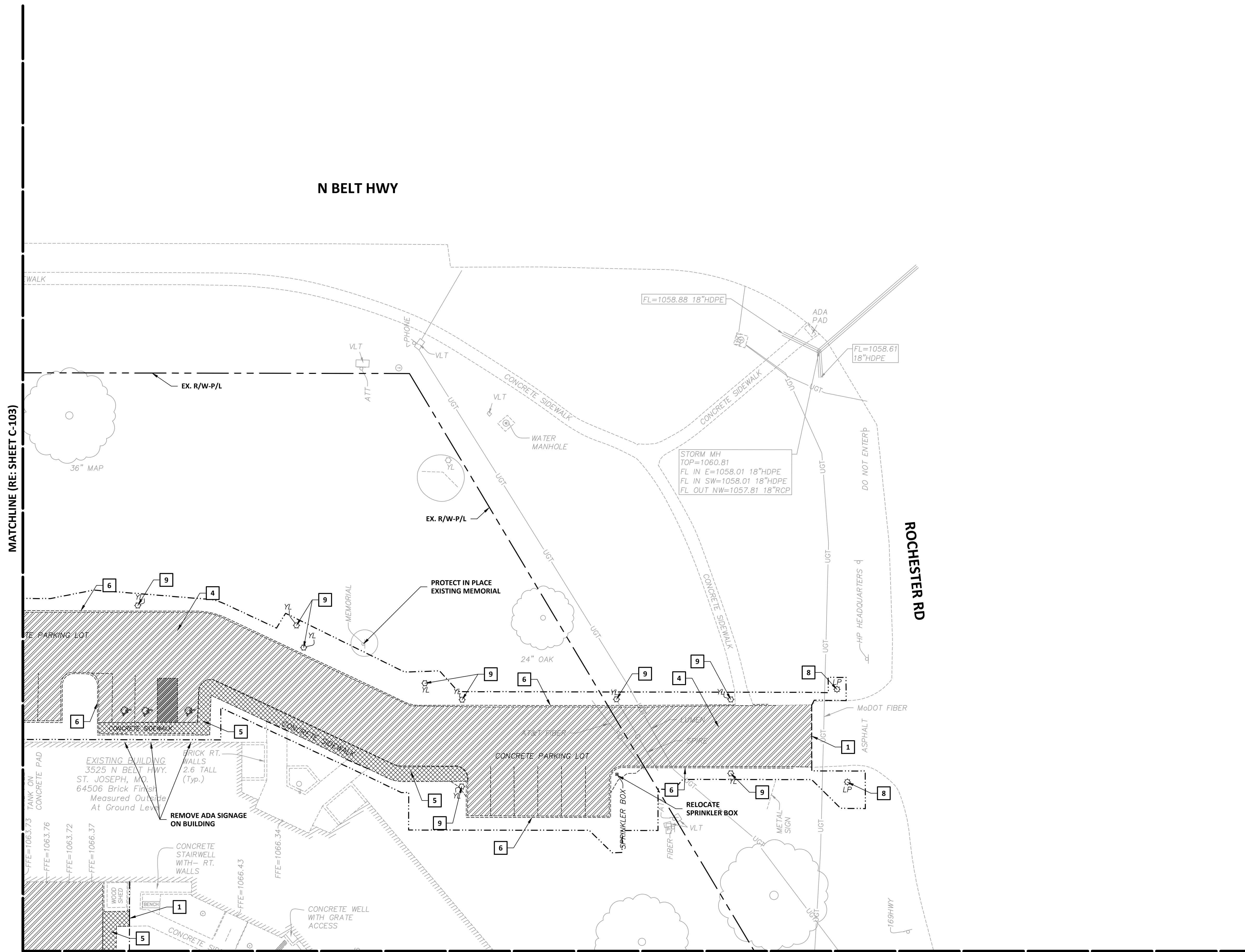
6 OF 35 SHEETS  
03/28/2024

DEMOLITION LEGEND & KEYNOTES

- REMOVE TREE AND BUSHES
- PROTECT TREE
- APPROXIMATE PROJECT/GRADING LIMITS
- INDICATES ITEMS TO BE REMOVED
- 1 - SAWCUT
- 2 - REMOVE ASPHALT PAVEMENT
- 3 - REMOVE GRAVEL
- 4 - REMOVE CONCRETE PAVEMENT
- 5 - REMOVE WALK
- 6 - REMOVE CURB
- 7 - REMOVE AND RELOCATE SIGN
- 8 - REMOVE & REPLACE LIGHT POLE (RE: ELECTRICAL PLANS)
- 9 - REMOVE & REPLACE LIGHTING (RE: ELECTRICAL PLANS)
- 10 - REMOVE STORM SEWER PIPING

NOTES:

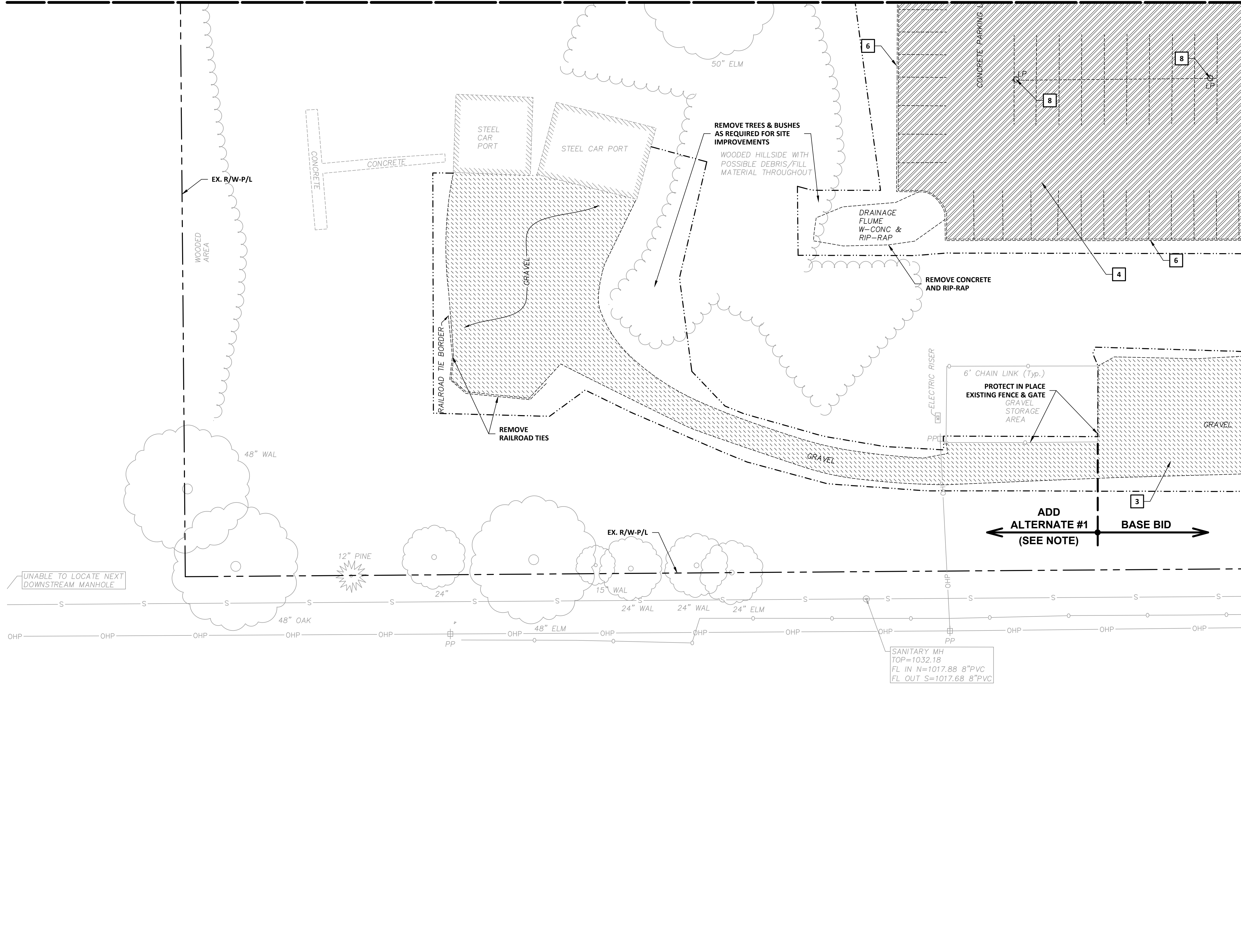
1. LIMITS & LOCATION OF EXISTING IRRIGATION SYSTEM ARE UNKNOWN AND NOT SHOWN. PROTECT EXISTING SYSTEM WHERE POSSIBLE & REPLACE SYSTEM WHERE NECESSARY.



MATCHLINE (RE: SHEET C-103)

MATCHLINE (RE: SHEET C-106)

MATCHLINE (RE: SHEET C-103)



**DEMOLITION LEGEND & KEYNOTES**

- ✕ - REMOVE TREE AND BUSHES
- S - PROTECT TREE
- - - - - APPROXIMATE PROJECT/GRADING LIMITS
- ////// - INDICATES ITEMS TO BE REMOVED
- 1 - SAWCUT
- 2 - REMOVE ASPHALT PAVEMENT
- 3 - REMOVE GRAVEL
- 4 - REMOVE CONCRETE PAVEMENT
- 5 - REMOVE WALK
- 6 - REMOVE CURB
- 7 - REMOVE AND RELOCATE SIGN
- 8 - REMOVE & REPLACE LIGHT POLE (RE: ELECTRICAL PLANS)
- 9 - REMOVE & REPLACE LIGHTING (RE: ELECTRICAL PLANS)
- 10 - REMOVE STORM SEWER PIPING

**NOTES:**

1. LIMITS & LOCATION OF EXISTING IRRIGATION SYSTEM ARE UNKNOWN AND NOT SHOWN. PROTECT EXISTING SYSTEM WHERE POSSIBLE & REPLACE SYSTEM WHERE NECESSARY.

**ADD ALTERNATE #1 NOTE:**

ADD ALTERNATE INCLUDES REMOVAL OF EXISTING GRAVEL SURFACE, GRADING, AND INSTALLATION OF ASPHALT PAVEMENT.

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



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MISSOURI STATE HIGHWAY  
PATROL

CRIME LAB - EXTERIOR  
RENOVATIONS  
TROOP H HEADQUARTERS  
BUILDING

ST. JOSEPH, MISSOURI

PROJECT # R-2338-01  
SITE # 6009  
FACILITY # 8136009002 &  
8136009003

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: \_\_\_\_\_

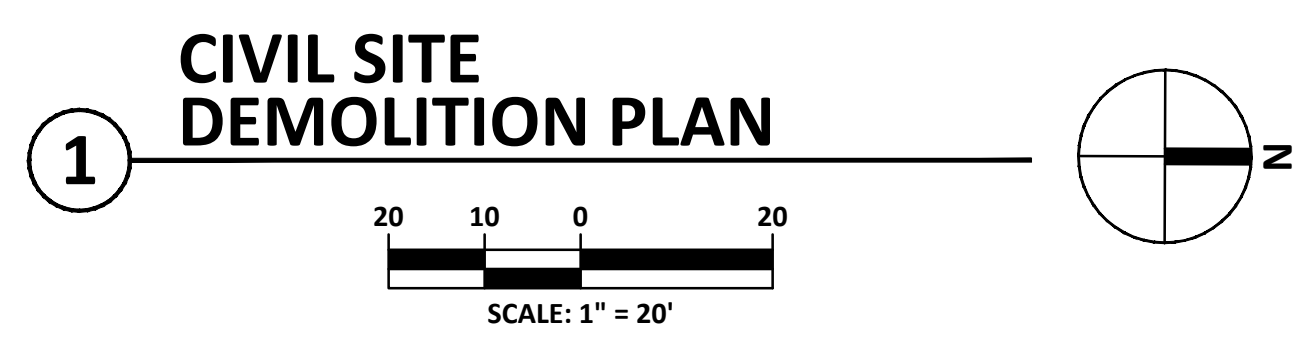
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DRAWN BY: DMB  
CHECKED BY: MJH  
DESIGNED BY: LF

SHEET TITLE:  
**DEMOLITION  
PLAN**

SHEET NUMBER:

**C-105**

7 OF 35 SHEETS  
03/28/2024





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REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: \_\_\_\_\_

CAD DWG FILE: C-106.dwg  
DRAWN BY: DMB  
CHECKED BY: MJH  
DESIGNED BY: LF

SHEET TITLE:  
**DEMOLITION  
PLAN**

SHEET NUMBER:

**C-106**

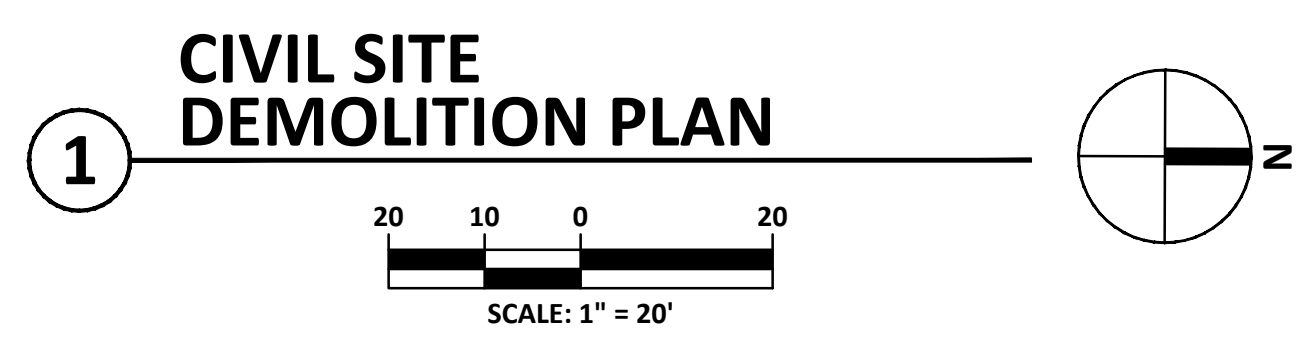
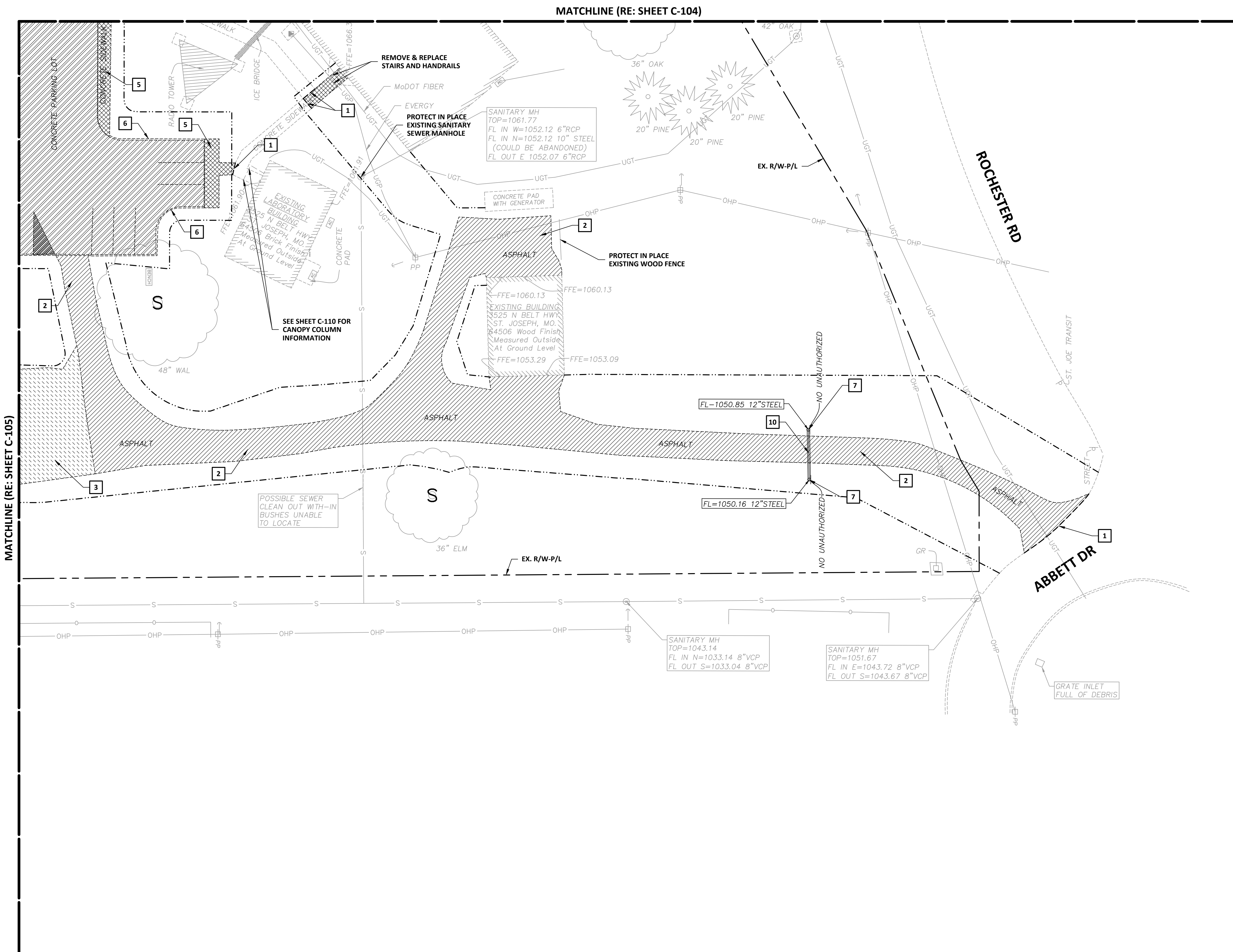
8 OF 35 SHEETS  
03/28/2024

**DEMOLITION LEGEND & KEYNOTES**

- REMOVE TREE AND BUSHES
- PROTECT TREE
- APPROXIMATE PROJECT/GRADING LIMITS
- INDICATES ITEMS TO BE REMOVED
- SAWCUT
- REMOVE ASPHALT PAVEMENT
- REMOVE GRAVEL
- REMOVE CONCRETE PAVEMENT
- REMOVE WALK
- REMOVE CURB
- REMOVE AND RELOCATE SIGN
- REMOVE & REPLACE LIGHT POLE (RE: ELECTRICAL PLANS)
- REMOVE & REPLACE LIGHTING (RE: ELECTRICAL PLANS)
- REMOVE STORM SEWER PIPING

**NOTES:**

1. LIMITS & LOCATION OF EXISTING IRRIGATION SYSTEM ARE UNKNOWN AND NOT SHOWN. PROTECT EXISTING SYSTEM WHERE POSSIBLE & REPLACE SYSTEM WHERE NECESSARY.



MATCHLINE (RE: SHEET C-105)

MATCHLINE (RE: SHEET C-104)





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SITE # 6009  
FACILITY # 8136009002 &  
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REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: \_\_\_\_\_

CAD DWG FILE: C-107.dwg  
DRAWN BY: DMB  
CHECKED BY: MJH  
DESIGNED BY: LF

SHEET TITLE:  
CIVIL SITE  
LAYOUT PLAN

SHEET NUMBER:

C-107

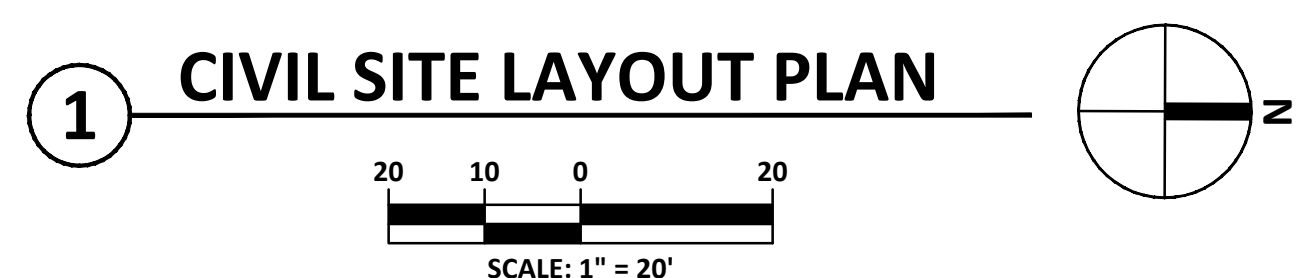
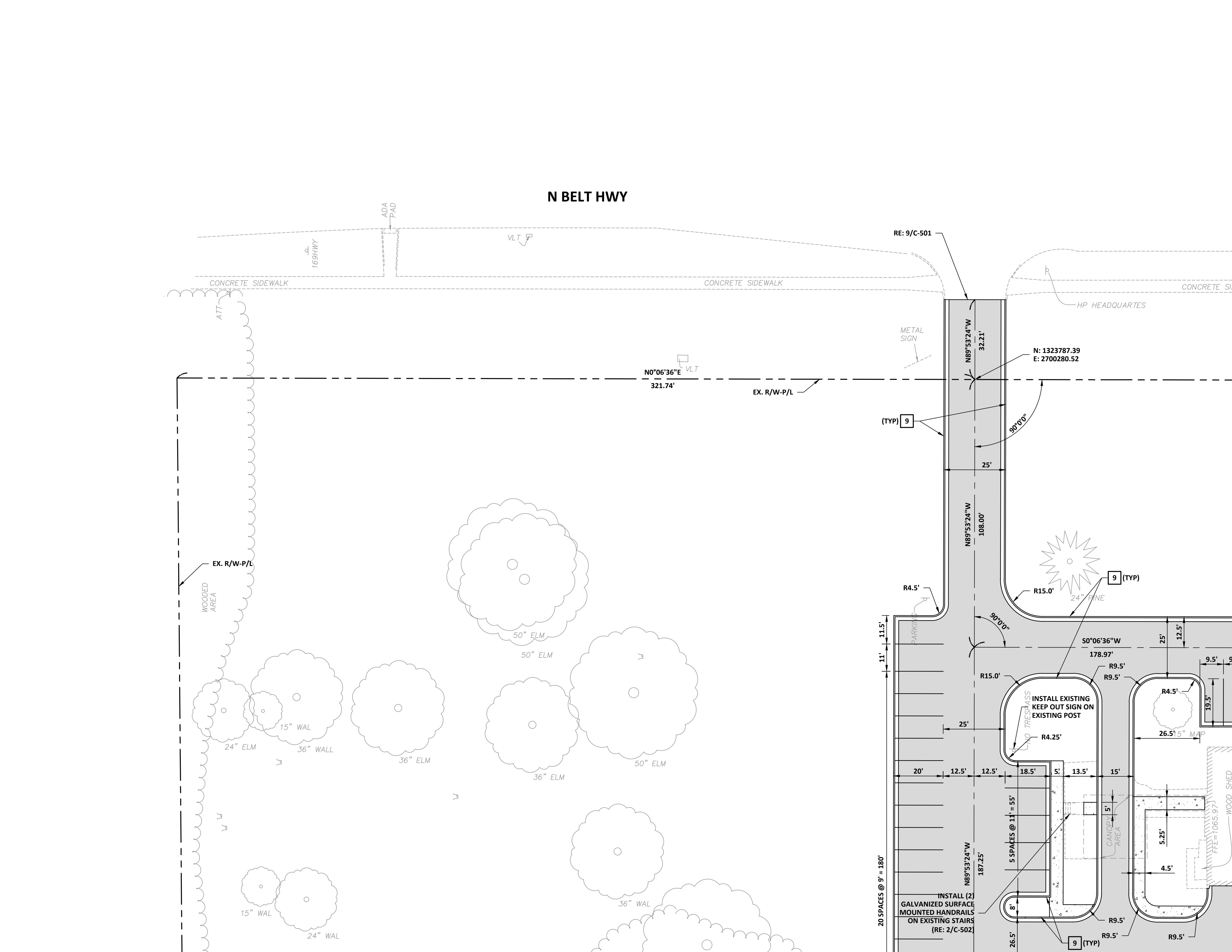
9 OF 35 SHEETS  
03/28/2024

LAYOUT LEGEND & KEYNOTES

	1 - CONCRETE PAVEMENT (RE: 5/C-501)
	2 - CONCRETE SIDEWALK (RE: 6/C-501)
	3 - HEAVY DUTY CONCRETE PAVEMENT (RE: 7/C-501)
	4 - ASPHALT PAVEMENT (RE: 8/C-501)
	5 - CONCRETE WHEEL STOP (RE: 8/C-502)
	6 - CONCRETE STAIRS (RE: 1/C-502)
	7 - ACCESSIBLE PARKING SIGNAGE (RE: 7/C-502)
	8 - ACCESSIBLE PARKING SYMBOL (RE: 6/C-502)
	9 - CONCRETE CURB & GUTTER (RE: GRADING PLANS)

NOTES:

- ALL DIMENSIONS ARE TO BACK OF CURB, EDGE OF PAVEMENT, OR JOINT AS APPLICABLE.
- ALL PARKING SPACE STRIPING IS TO BE 4" WHITE





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SITE # 6009  
FACILITY # 8136009002 &  
8136009003

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DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: \_\_\_\_\_

CAD DWG FILE: C-108.dwg  
DRAWN BY: DMB  
CHECKED BY: MJH  
DESIGNED BY: LF

SHEET TITLE:  
CIVIL SITE  
LAYOUT PLAN

SHEET NUMBER:

C-108

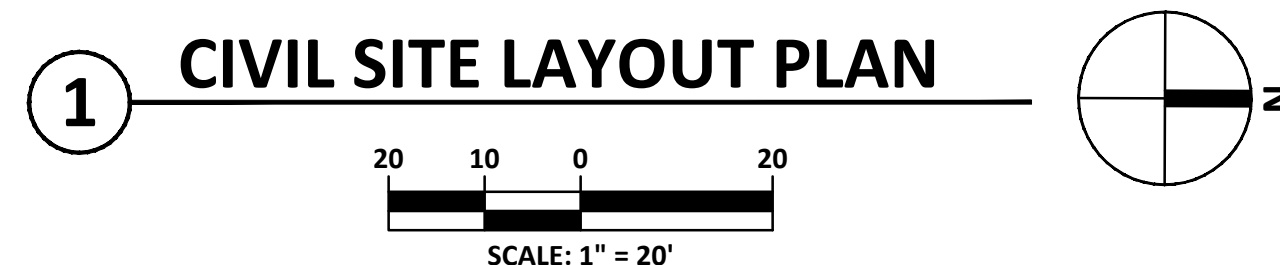
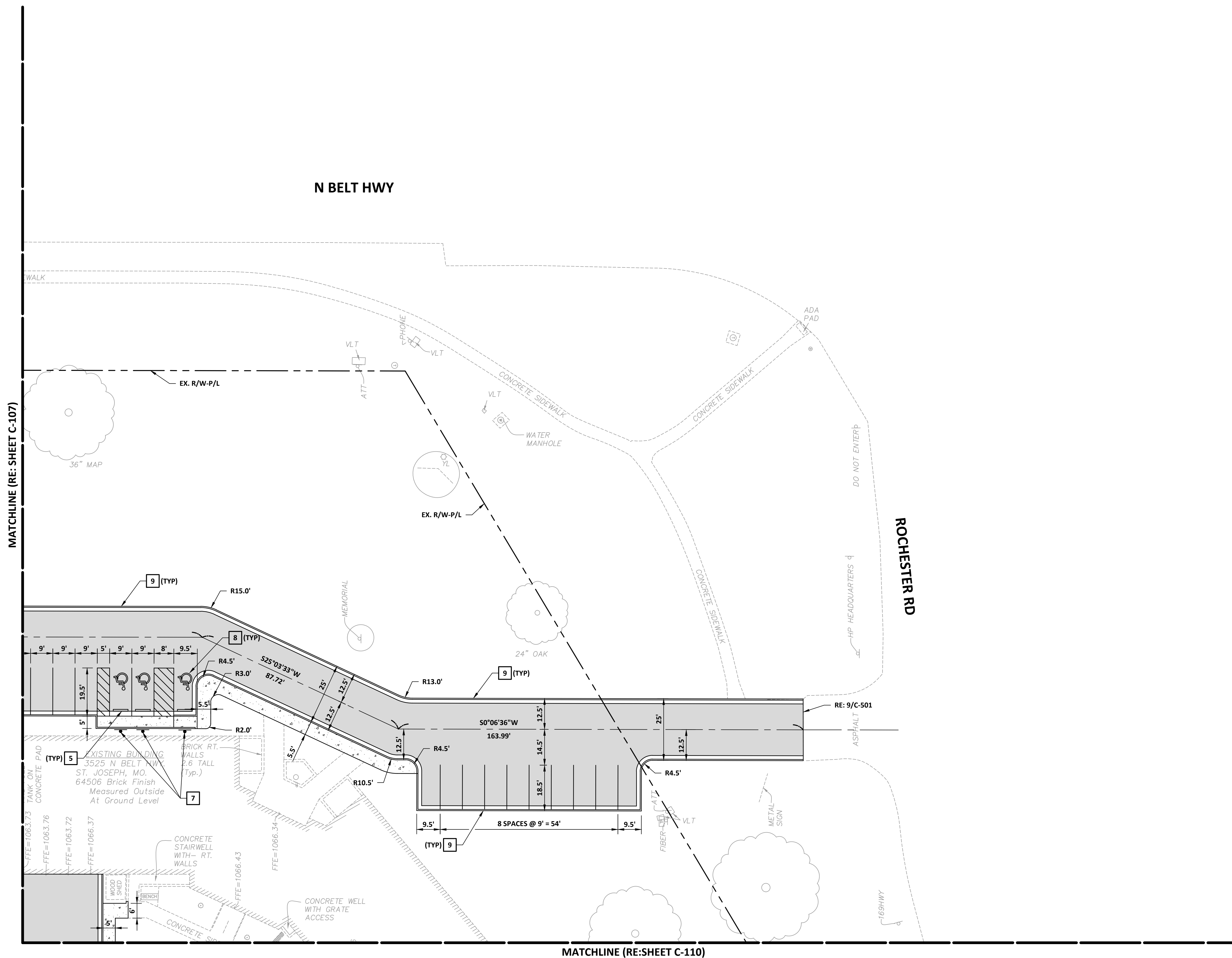
10 OF 35 SHEETS  
03/28/2024

LAYOUT LEGEND & KEYNOTES

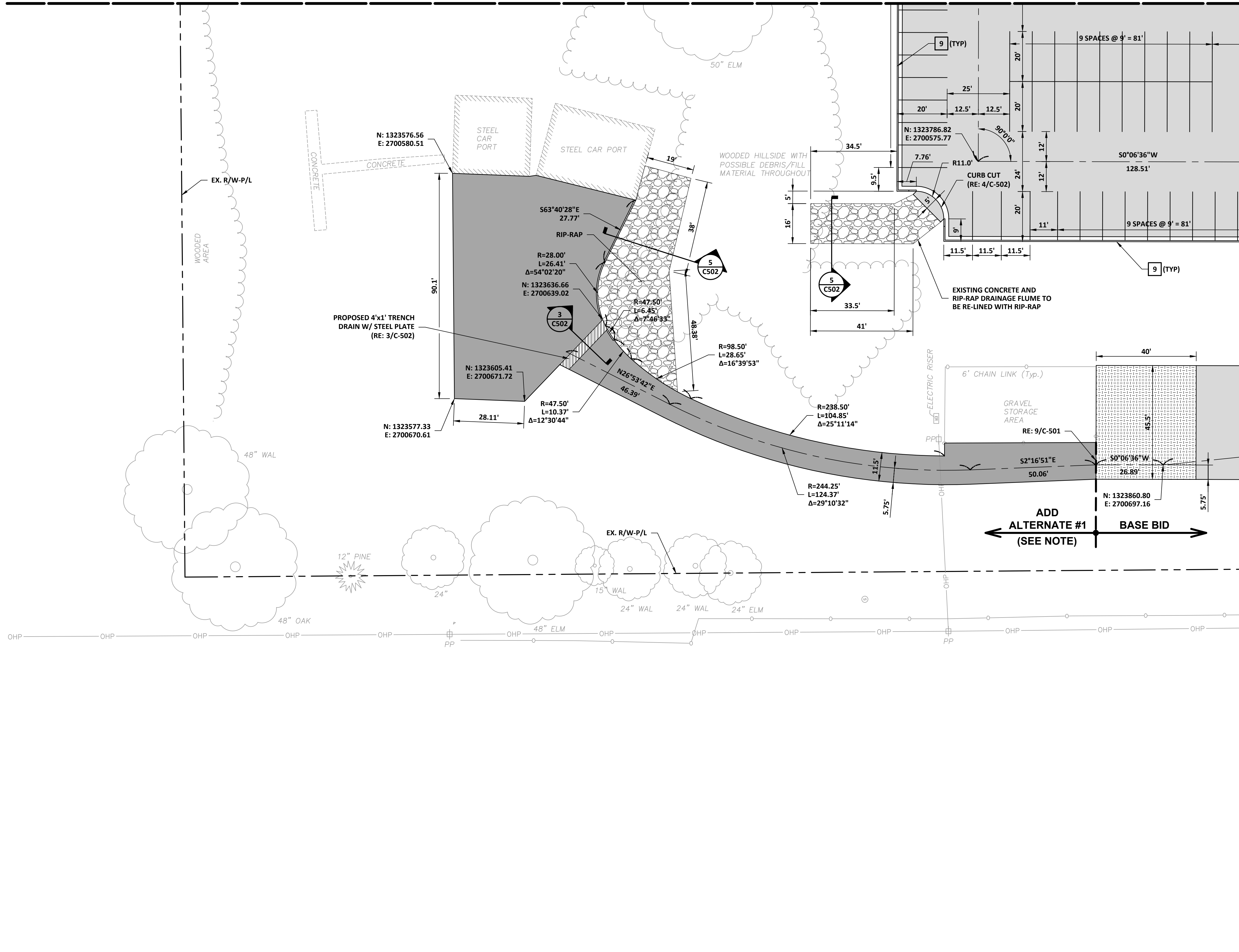
	1	- CONCRETE PAVEMENT (RE: 5/C-501)
	2	- CONCRETE SIDEWALK (RE: 6/C-501)
	3	- HEAVY DUTY CONCRETE PAVEMENT (RE: 7/C-501)
	4	- ASPHALT PAVEMENT (RE: 8/C-501)
	5	- CONCRETE WHEEL STOP (RE: 8/C-502)
	6	- CONCRETE STAIRS (RE: 1/C-502)
	7	- ACCESSIBLE PARKING SIGNAGE (RE: 7/C-502)
	8	- ACCESSIBLE PARKING SYMBOL (RE: 6/C-502)
	9	- CONCRETE CURB & GUTTER (RE: GRADING PLANS)

NOTES:

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- ALL PARKING SPACE STRIPING IS TO BE 4" WHITE



MATCHLINE (RE: SHEET C-107)



**LAYOUT LEGEND & KEYNOTES**

1	- CONCRETE PAVEMENT (RE: 5/C-501)
2	- CONCRETE SIDEWALK (RE: 6/C-501)
3	- HEAVY DUTY CONCRETE PAVEMENT (RE: 7/C-501)
4	- ASPHALT PAVEMENT (RE: 8/C-501)
5	- CONCRETE WHEEL STOP (RE: 8/C-502)
6	- CONCRETE STAIRS (RE: 1/C-502)
7	- ACCESSIBLE PARKING SIGNAGE (RE: 7/C-502)
8	- ACCESSIBLE PARKING SYMBOL (RE: 6/C-502)
9	- CONCRETE CURB & GUTTER (RE: GRADING PLANS)

**NOTES:**

- ALL DIMENSIONS ARE TO BACK OF CURB, EDGE OF PAVEMENT, OR JOINT AS APPLICABLE.
- ALL PARKING SPACE STRIPING IS TO BE 4" WHITE

**ADD ALTERNATE #1 NOTE:**

ADD ALTERNATE INCLUDES REMOVAL OF EXISTING GRAVEL SURFACE, GRADING, AND INSTALLATION OF ASPHALT PAVEMENT.

MATCHLINE (RE: SHEET C-110)

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PROJECT # R-2338-01  
SITE # 6009  
FACILITY # 8136009002 &  
8136009003

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DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: \_\_\_\_\_

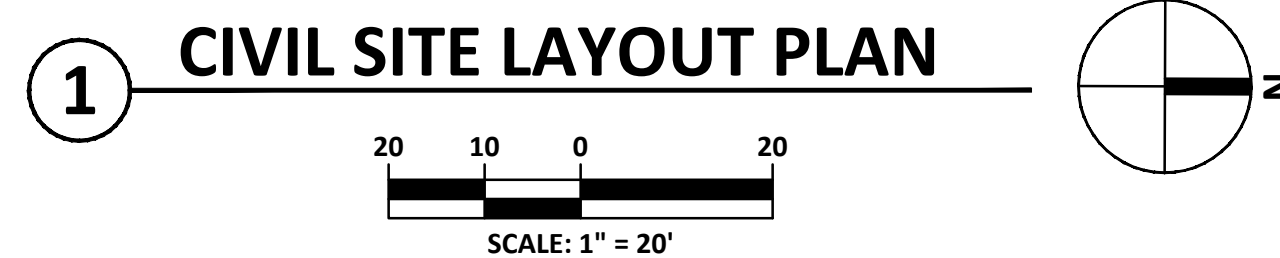
CAD DWG FILE: C-109.dwg  
DRAWN BY: DMB  
CHECKED BY: MJH  
DESIGNED BY: LF

SHEET TITLE:  
**CIVIL SITE  
LAYOUT PLAN**

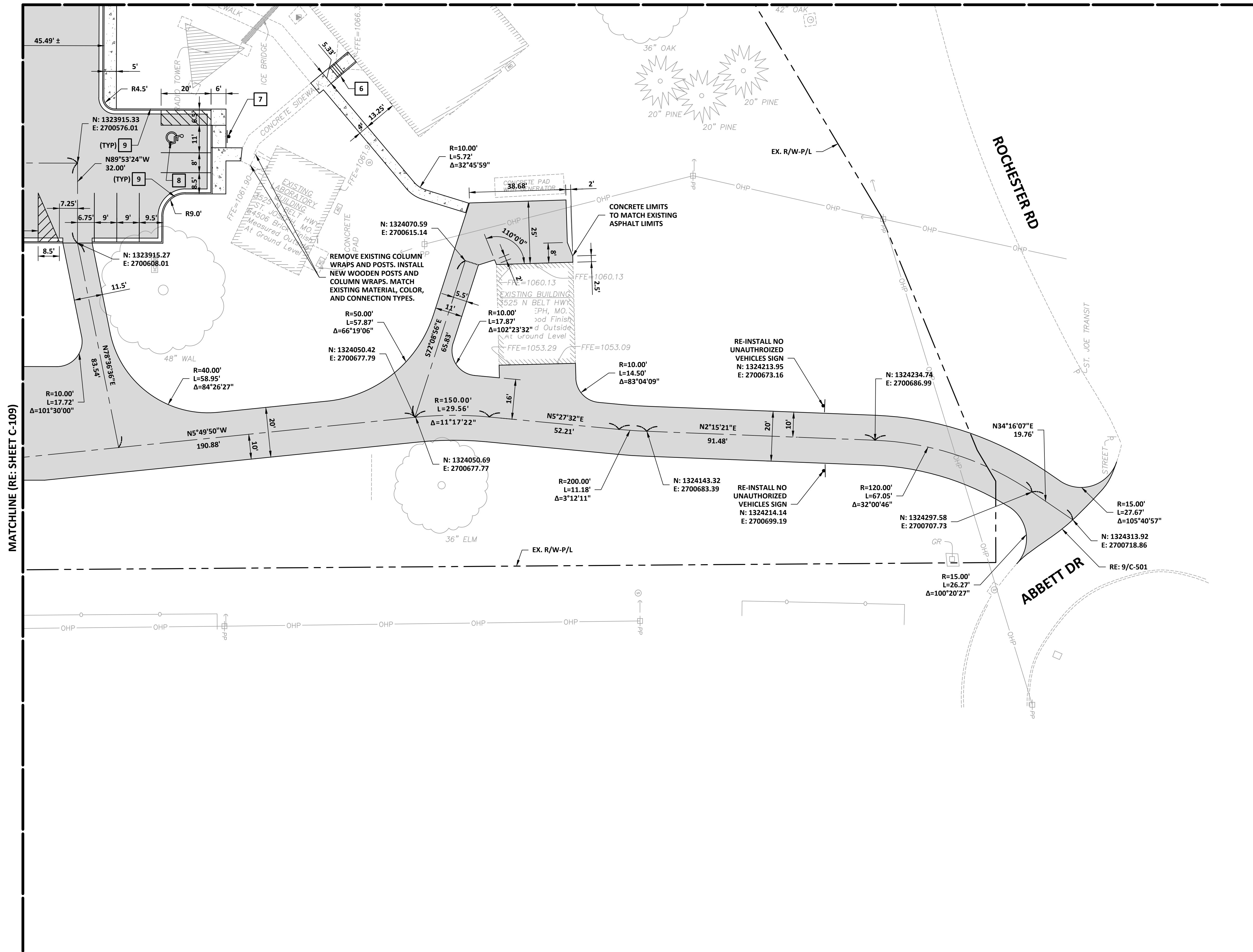
SHEET NUMBER:

**C-109**

11 OF 35 SHEETS  
03/28/2024



MATCHLINE (RE: SHEET C-108)



**LAYOUT LEGEND & KEYNOTES**

	1 - CONCRETE PAVEMENT (RE: 5/C-501)
	2 - CONCRETE SIDEWALK (RE: 6/C-501)
	3 - HEAVY DUTY CONCRETE PAVEMENT (RE: 7/C-501)
	4 - ASPHALT PAVEMENT (RE: 8/C-501)
	5 - CONCRETE WHEEL STOP (RE: 8/C-502)
	6 - CONCRETE STAIRS (RE: 1/C-502)
	7 - ACCESSIBLE PARKING SIGNAGE (RE: 7/C-502)
	8 - ACCESSIBLE PARKING SYMBOL (RE: 6/C-502)
	9 - CONCRETE CURB & GUTTER (RE: GRADING PLANS)

**NOTES:**

- ALL DIMENSIONS ARE TO BACK OF CURB, EDGE OF PAVEMENT, OR JOINT AS APPLICABLE.
- ALL PARKING SPACE STRIPING IS TO BE 4" WHITE

STATE OF MISSOURI  
MICHAEL L. PARSON,  
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ST. JOSEPH, MISSOURI

PROJECT # R-2338-01  
SITE # 6009  
FACILITY # 8136009002 &  
8136009003

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: \_\_\_\_\_

CAD DWG FILE: C-110.dwg  
DRAWN BY: DMB  
CHECKED BY: MJH  
DESIGNED BY: LF

SHEET TITLE:  
**CIVIL SITE  
LAYOUT PLAN**

SHEET NUMBER:

**C-110**

12 OF 35 SHEETS  
03/28/2024

**1 CIVIL SITE LAYOUT PLAN**

SCALE: 1" = 20'



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PROJECT # R-2338-01  
SITE # 6009  
FACILITY # 8136009002 &  
8136009003

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: \_\_\_\_\_

CAD DWG FILE: C-111.dwg  
DRAWN BY: DMB  
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DESIGNED BY: LF

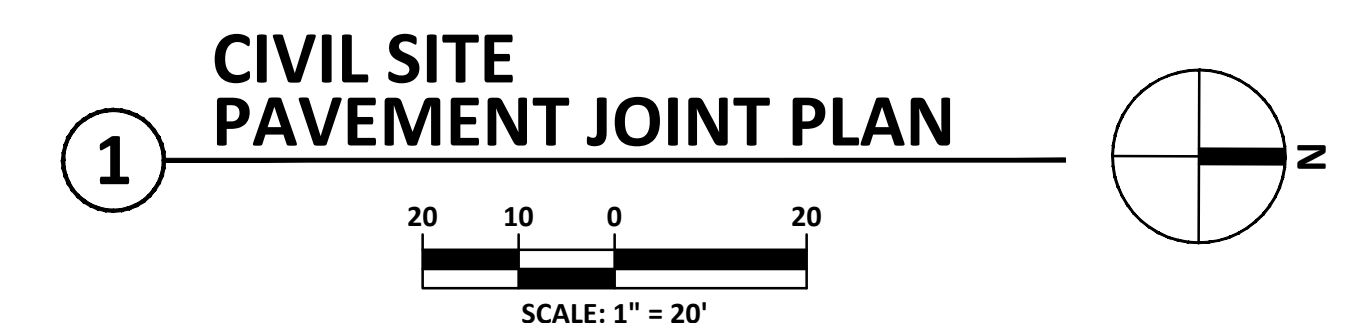
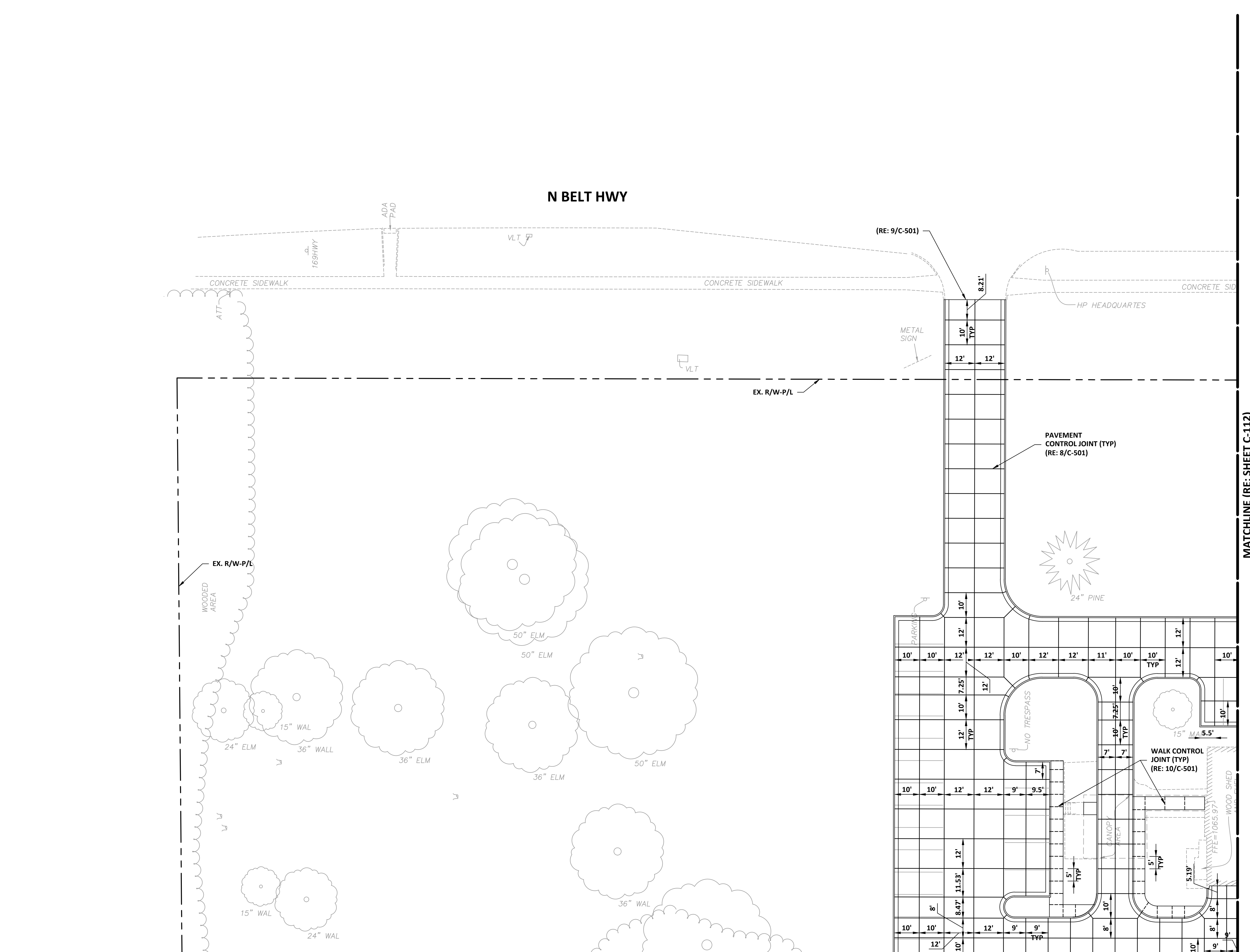
SHEET TITLE:  
CIVIL SITE  
PAVEMENT JOINT  
PLAN

SHEET NUMBER:

**C-111**

13 OF 35 SHEETS  
03/28/2024

JOINT LEGEND	
-----	- WALK CONTROL JOINT (RE: 10/C-501)
_____	- PAVEMENT CONTROL JOINT (RE: 11/C-501)





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SITE # 6009  
FACILITY # 8136009002 &  
8136009003

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DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: \_\_\_\_\_

CAD DWG FILE: C-112.dwg  
DRAWN BY: DMB  
CHECKED BY: MJH  
DESIGNED BY: LF

SHEET TITLE:  
CIVIL SITE  
PAVEMENT JOINT  
PLAN

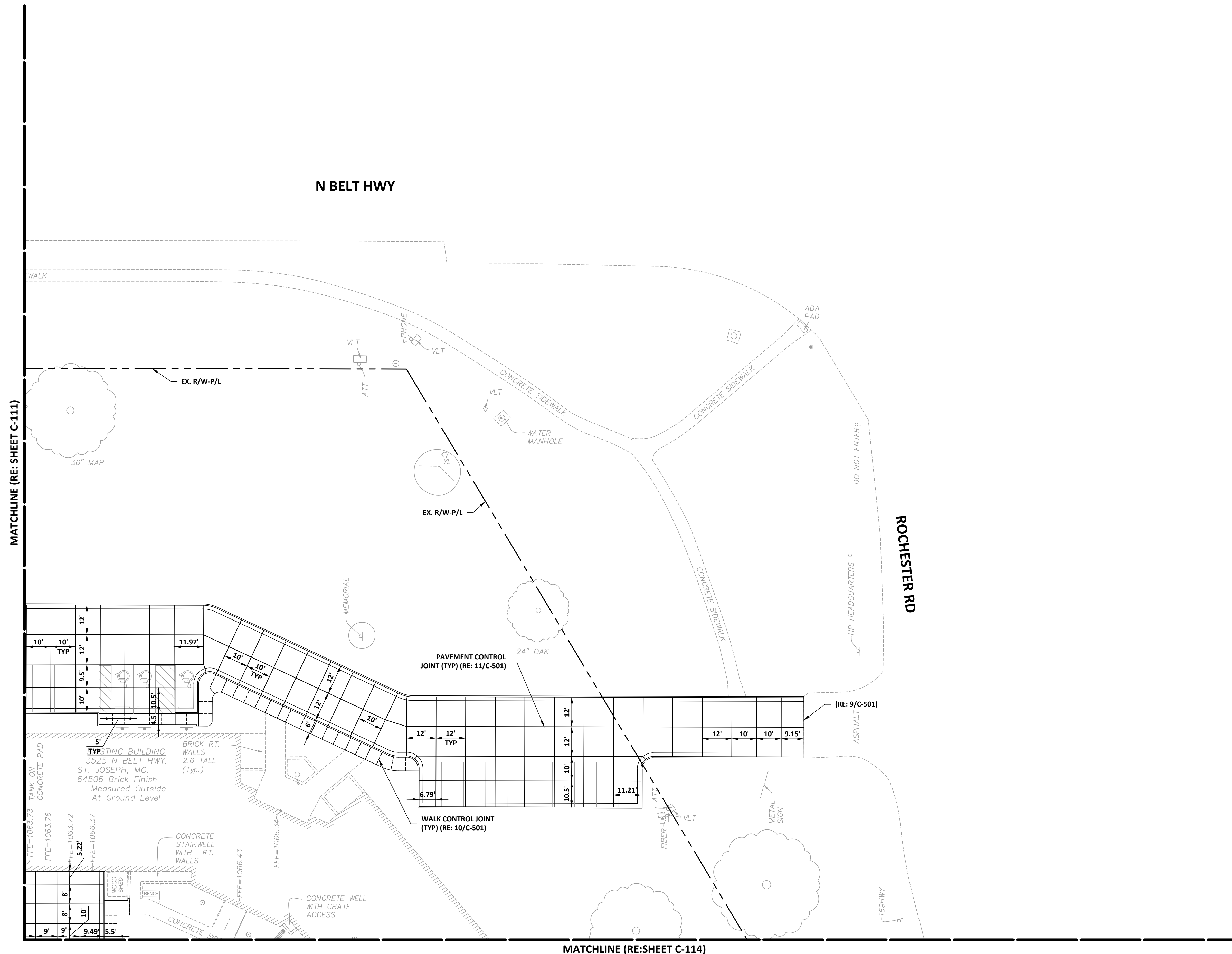
SHEET NUMBER:

**C-112**

14 OF 35 SHEETS  
03/28/2024

**JOINT LEGEND**

- - - - - WALK CONTROL JOINT (RE: 10/C-501)
- PAVEMENT CONTROL JOINT (RE: 11/C-501)



**1 CIVIL SITE PAVEMENT JOINT PLAN**

SCALE: 1" = 20'



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FACILITY # 8136009002 &  
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DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: \_\_\_\_\_

CAD DWG FILE: C-113.dwg  
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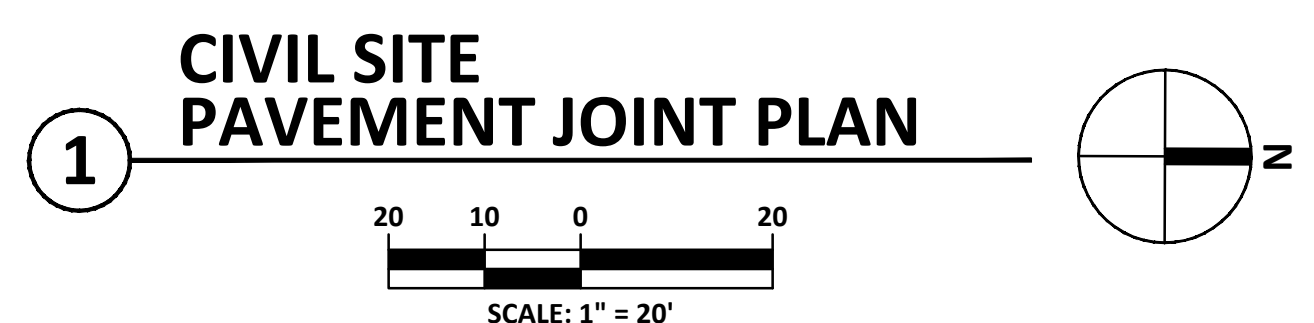
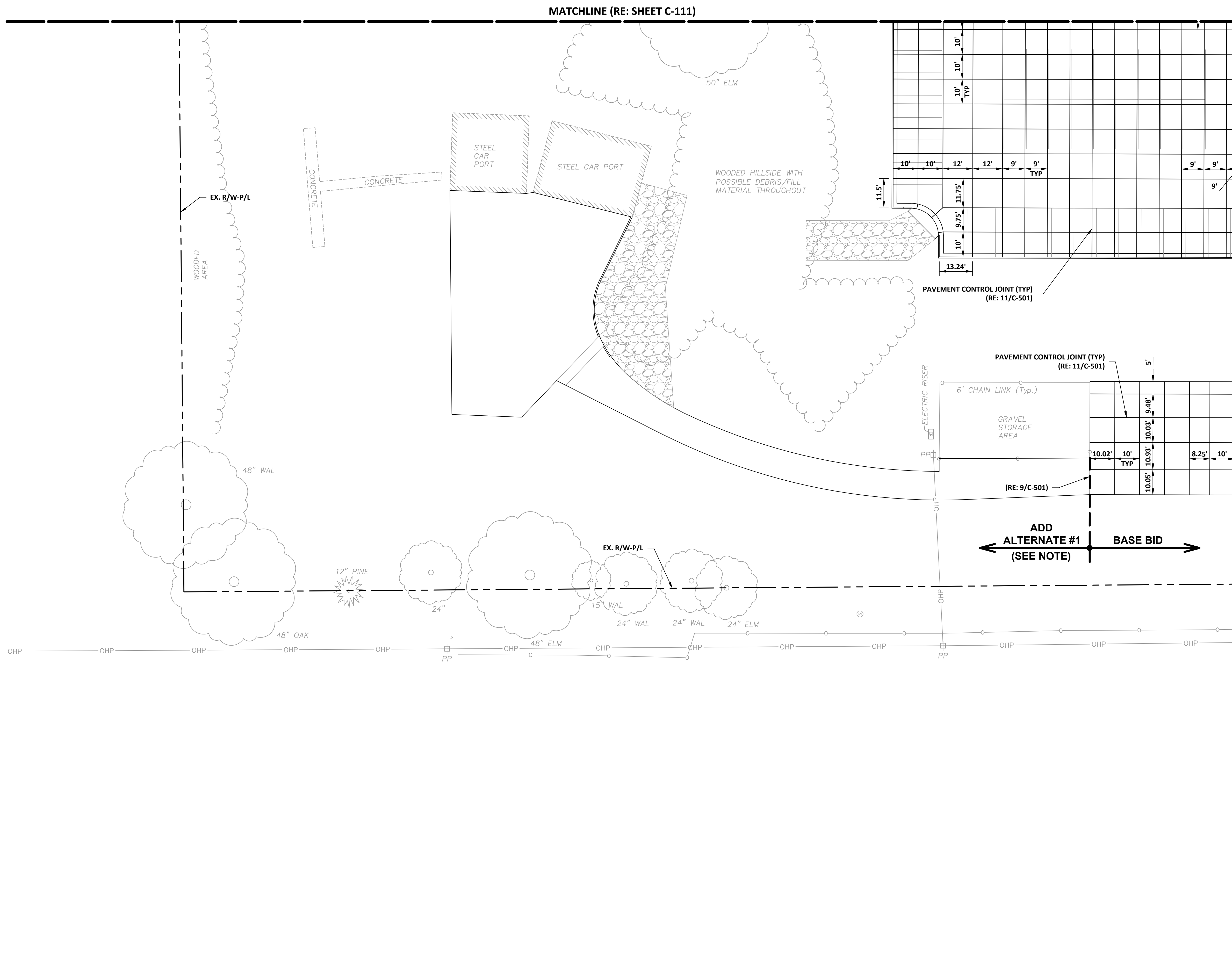
SHEET TITLE:

CIVIL SITE  
PAVEMENT JOINT  
PLAN

SHEET NUMBER:

C-113

15 OF 35 SHEETS  
03/28/2024





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REVISION: \_\_\_\_\_  
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DATE: \_\_\_\_\_

ISSUE DATE: \_\_\_\_\_

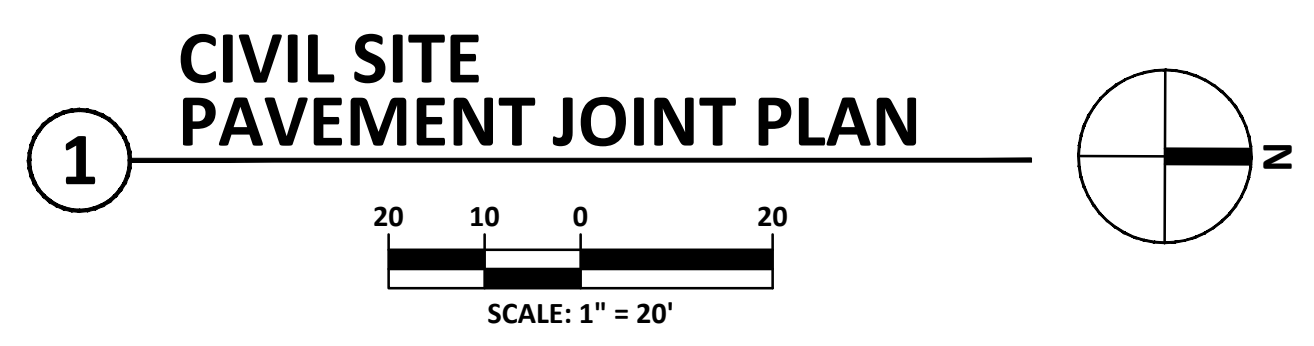
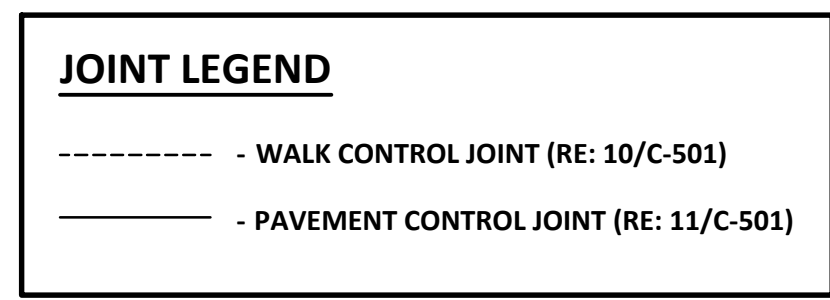
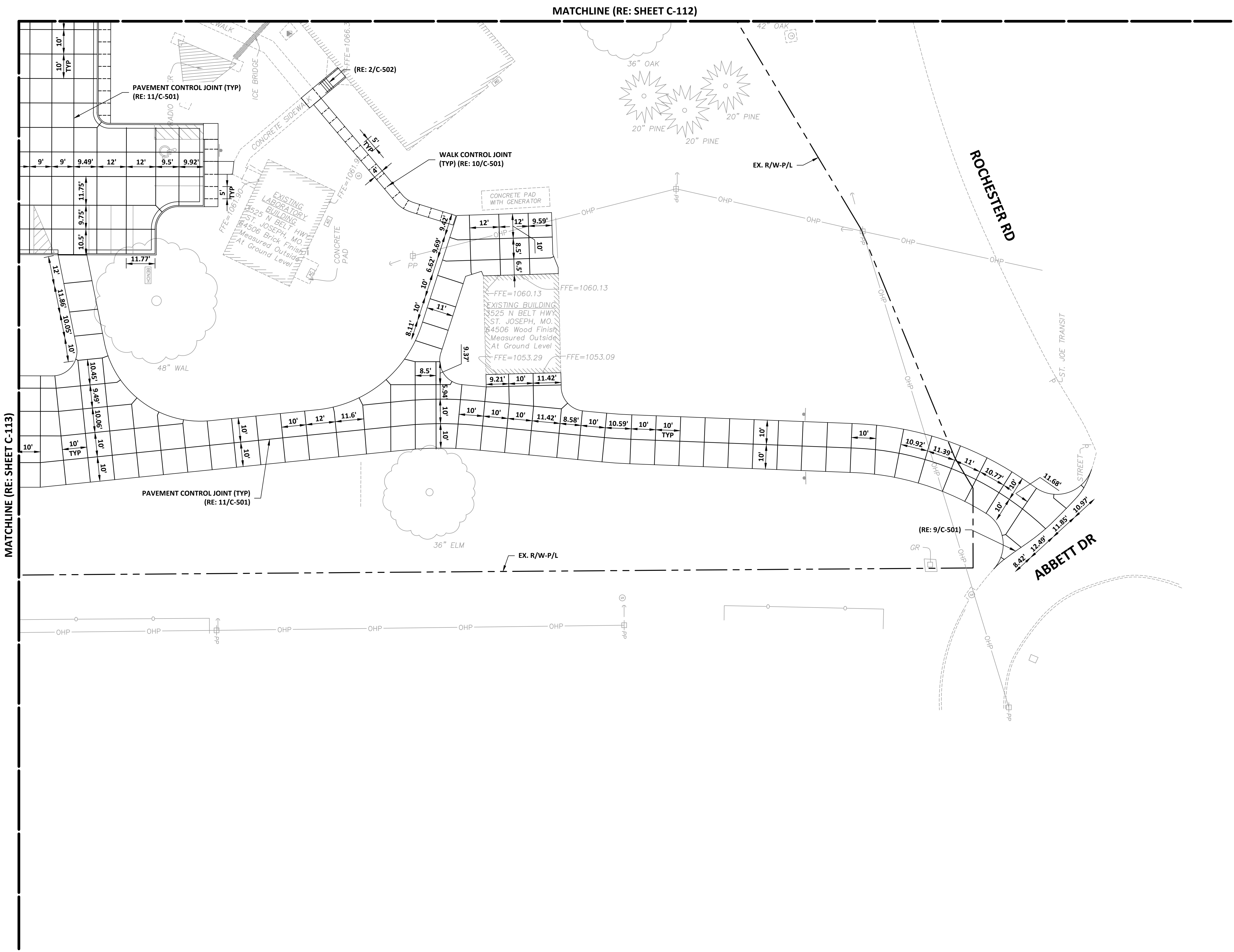
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CHECKED BY: MJH  
DESIGNED BY: LF

SHEET TITLE:  
**CIVIL SITE  
PAVEMENT JOINT  
PLAN**

SHEET NUMBER:

**C-114**

16 OF 35 SHEETS  
03/28/2024







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SITE # 6009  
FACILITY # 8136009002 &  
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DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: \_\_\_\_\_

CAD DWG FILE: C-115.dwg  
DRAWN BY: DMB  
CHECKED BY: MJH  
DESIGNED BY: LF

SHEET TITLE:  
CIVIL SITE  
GRADING PLAN

SHEET NUMBER:

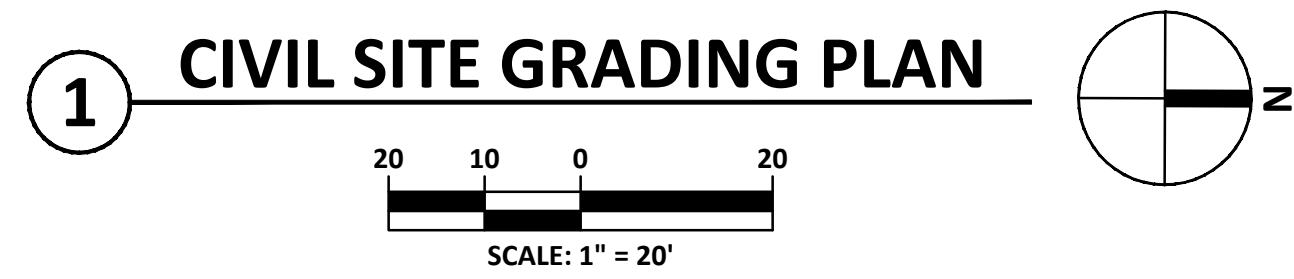
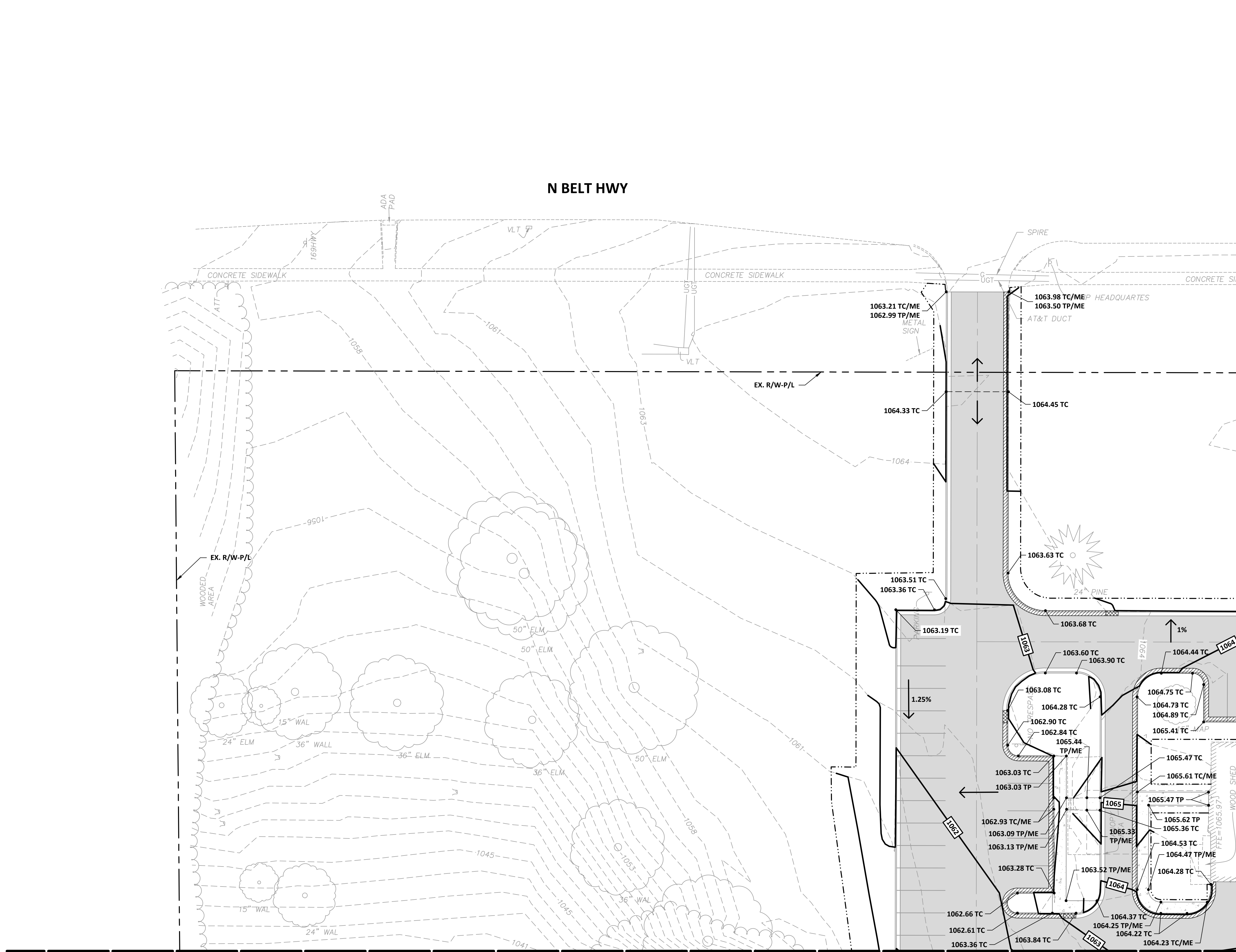
C-115

17 OF 35 SHEETS  
03/28/2024

GRADING LEGEND	
	XXX.XX TC - TOP OF CURB ELEVATION
	XXX.XX - SPOT ELEVATION
	XXX.XX LC - LIP OF CURB ELEVATION
	XXX.XX G - GUTTER ELEVATION
	XXX.XX ME - MATCH EXISTING ELEVATION
	XXX.XX TW - TOP OF WALL ELEVATION
	XXX.XX BW - BOTTOM OF WALL ELEVATION
	XXX.XX HP - HIGH POINT
	XXX.XX LP - LOW POINT
	XXX.XX TS - TOP OF STRUCTURE
	2.0% - SLOPE
	XXX - PROPOSED CONTOUR
	---XXX--- - EXISTING CONTOUR
	--->--- - DRAINAGE PATH
	--- - RIDGE LINE
	--- - APPROX PROJECT/GRADING LIMITS

**SHEET NOTE:**  
ALL DISTURBED AREAS ARE TO BE SEEDED ACCORDING TO THE PROJECT SPECIFICATIONS.

CURB LEGEND	
	- CURB (RE: 1/C-501)
	- TYPE "CG-1" CURB & GUTTER (RE: 2/C-501)
	- TYPE "CG-1 (MODIFIED)" CURB & GUTTER (RE: 3/C-501)
	- FLAT CURB (RE: 4/C-501)
	- TRANSITION CURB





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REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: \_\_\_\_\_

CAD DWG FILE: C-116.dwg  
DRAWN BY: DMB  
CHECKED BY: MJH  
DESIGNED BY: LF

SHEET TITLE:  
CIVIL SITE  
GRADING PLAN

SHEET NUMBER:

C-116

18 OF 35 SHEETS  
03/28/2024

**GRADING LEGEND**

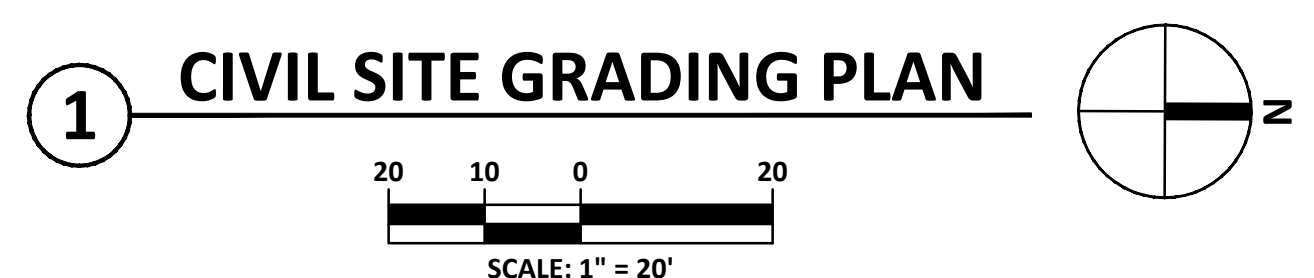
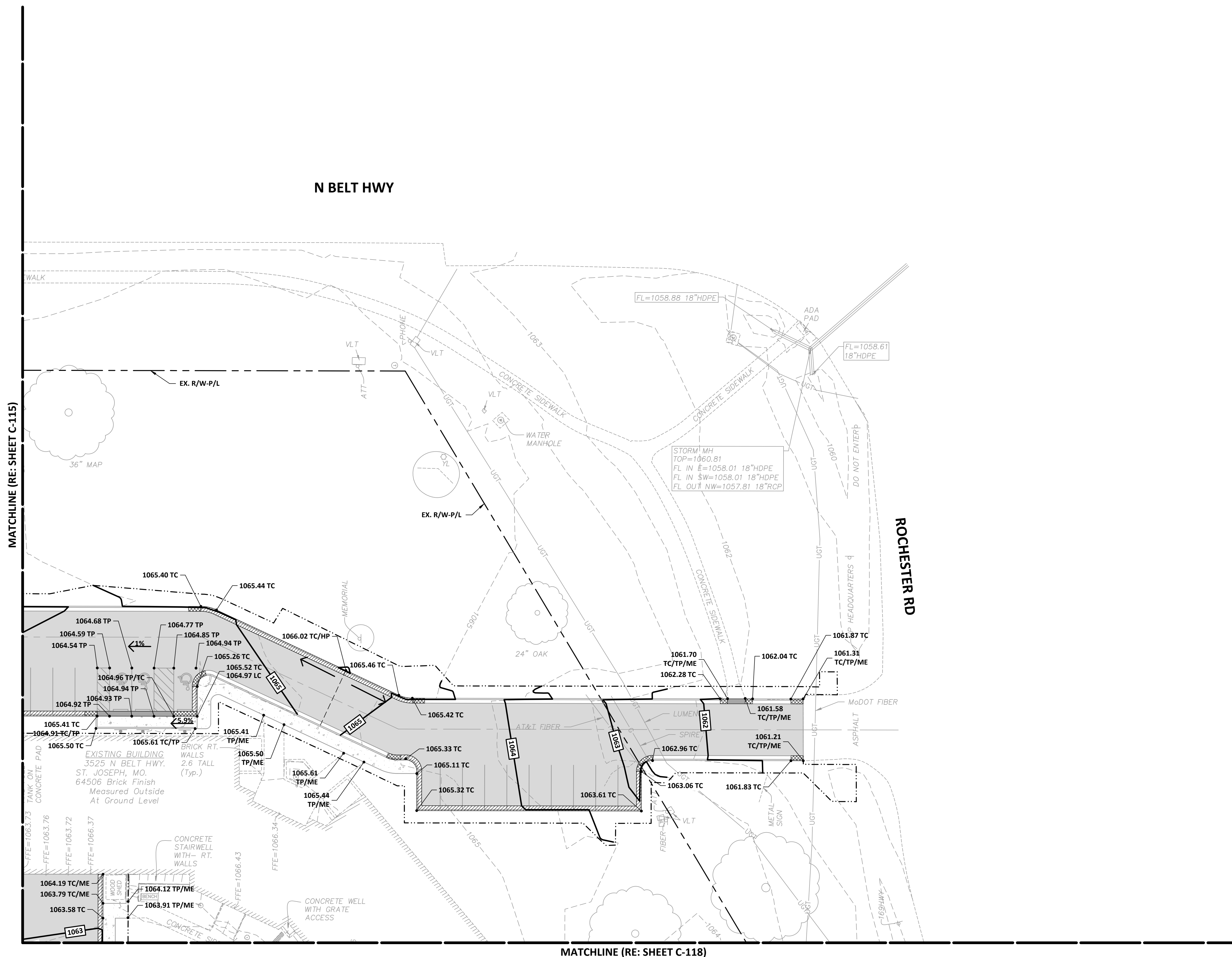
- XXX.XX TC - TOP OF CURB ELEVATION
- XXX.XX - SPOT ELEVATION
- XXX.XX LC - LIP OF CURB ELEVATION
- XXX.XX G - GUTTER ELEVATION
- XXX.XX ME - MATCH EXISTING ELEVATION
- XXX.XX TW - TOP OF WALL ELEVATION
- XXX.XX BW - BOTTOM OF WALL ELEVATION
- XXX.XX HP - HIGH POINT
- XXX.XX LP - LOW POINT
- XXX.XX TS - TOP OF STRUCTURE
- 2.0% - SLOPE
- XXX - PROPOSED CONTOUR
- XXX--- - EXISTING CONTOUR
- - DRAINAGE PATH
- - RIDGE LINE
- - APPROX PROJECT/GRADING LIMITS

**SHEET NOTE:**

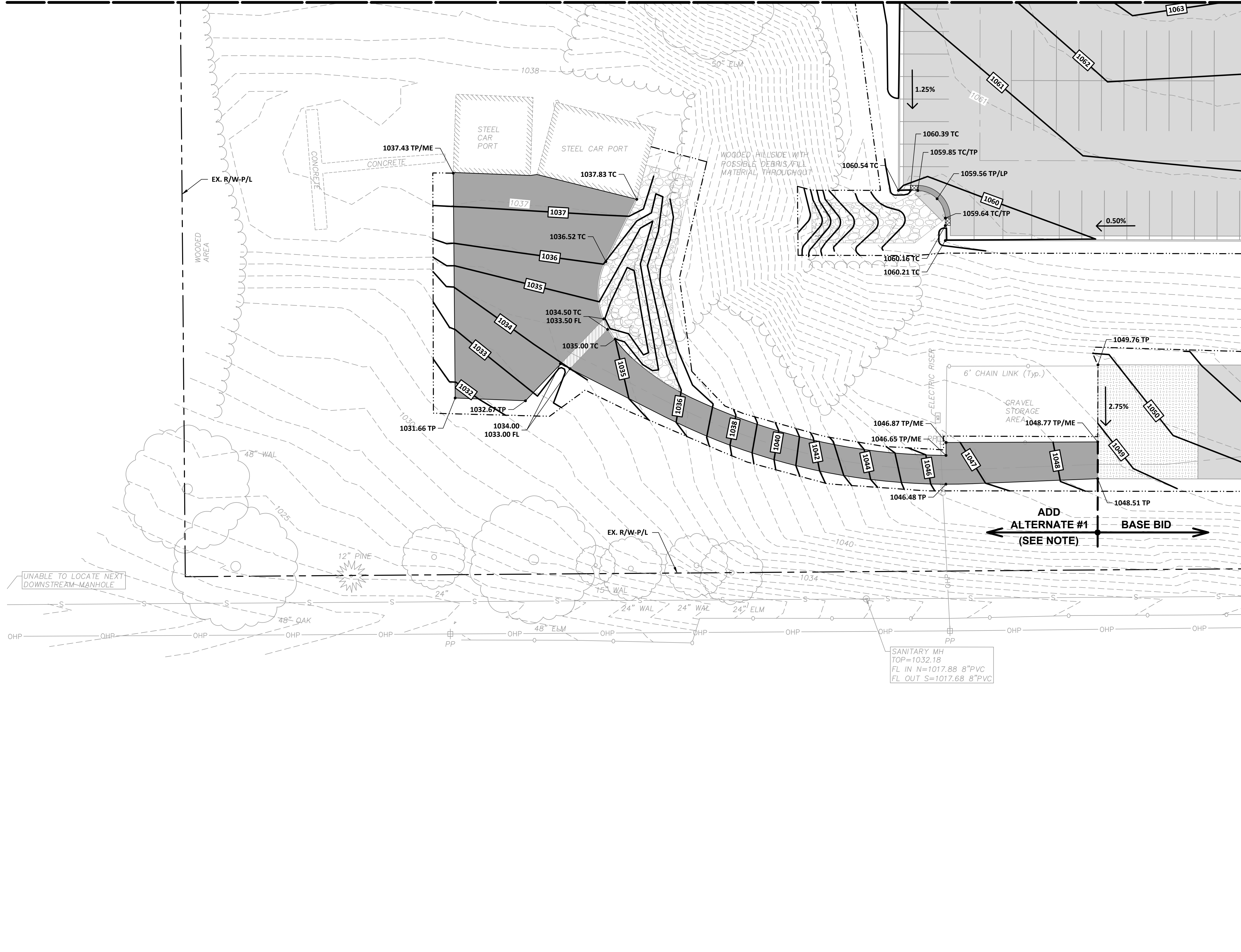
ALL DISTURBED AREAS ARE TO BE SEEDED ACCORDING TO THE PROJECT SPECIFICATIONS.

**CURB LEGEND**

- CURB (RE: 1/C-501)
- TYPE "CG-1" CURB & GUTTER (RE: 2/C-501)
- TYPE "CG-1 (MODIFIED)" CURB & GUTTER (RE: 3/C-501)
- FLAT CURB (RE: 4/C-501)
- TRANSITION CURB



MATCHLINE (RE: SHEET C-115)



**GRADING LEGEND**

- XXX.XX TC — TOP OF CURB ELEVATION
- XXX.XX — SPOT ELEVATION
- XXX.XX LC — LIP OF CURB ELEVATION
- XXX.XX G — GUTTER ELEVATION
- XXX.XX ME — MATCH EXISTING ELEVATION
- XXX.XX TW — TOP OF WALL ELEVATION
- XXX.XX BW — BOTTOM OF WALL ELEVATION
- XXX.XX HP — HIGH POINT
- XXX.XX LP — LOW POINT
- XXX.XX TS — TOP OF STRUCTURE
- 2.0% — SLOPE
- XXX— PROPOSED CONTOUR
- - - - - EXISTING CONTOUR
- — — — — DRAINAGE PATH
- — — — — RIDGE LINE
- - - - - APPROX PROJECT/GRADING LIMITS

**SHEET NOTE:**  
ALL DISTURBED AREAS ARE TO BE SEEDED ACCORDING TO THE PROJECT SPECIFICATIONS.

**ADD ALTERNATE #1 NOTE:**  
ADD ALTERNATE INCLUDES REMOVAL OF EXISTING GRAVEL SURFACE, GRADING, AND INSTALLATION OF ASPHALT PAVEMENT.

**CURB LEGEND**

- — — — — CURB (RE: 1/C-501)
- — — — — TYPE "CG-1" CURB & GUTTER (RE: 2/C-501)
- ▨ ▨ ▨ ▨ ▨ TYPE "CG-1 (MODIFIED)" CURB & GUTTER (RE: 3/C-501)
- ▬ ▬ ▬ ▬ ▬ FLAT CURB (RE: 4/C-501)
- ▩ ▩ ▩ ▩ ▩ TRANSITION CURB

MATCHLINE (RE: SHEET C-118)

ADD ALTERNATE #1 (SEE NOTE) ← BASE BID →

SANITARY MH  
TOP=1032.18  
FL IN N=1017.88 8"PVC  
FL OUT S=1017.68 8"PVC

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



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TROOP H HEADQUARTERS  
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ST. JOSEPH, MISSOURI

PROJECT # R-2338-01  
SITE # 6009  
FACILITY # 8136009002 &  
8136009003

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: \_\_\_\_\_

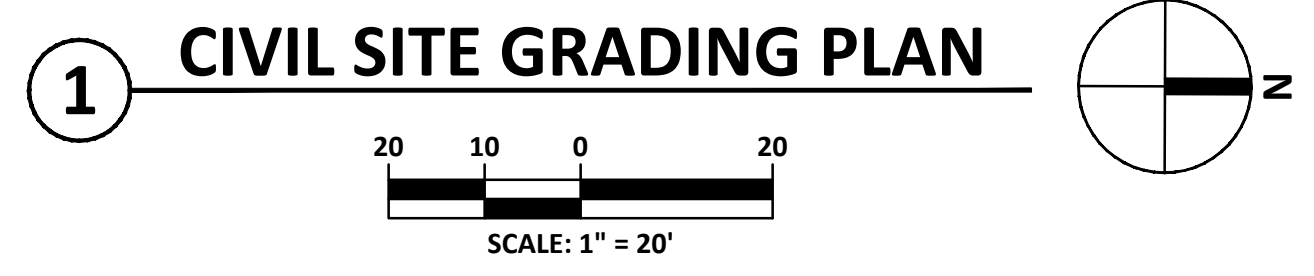
CAD DWG FILE: C-117.dwg  
DRAWN BY: DMB  
CHECKED BY: MJH  
DESIGNED BY: LF

SHEET TITLE:  
**CIVIL SITE  
GRADING PLAN**

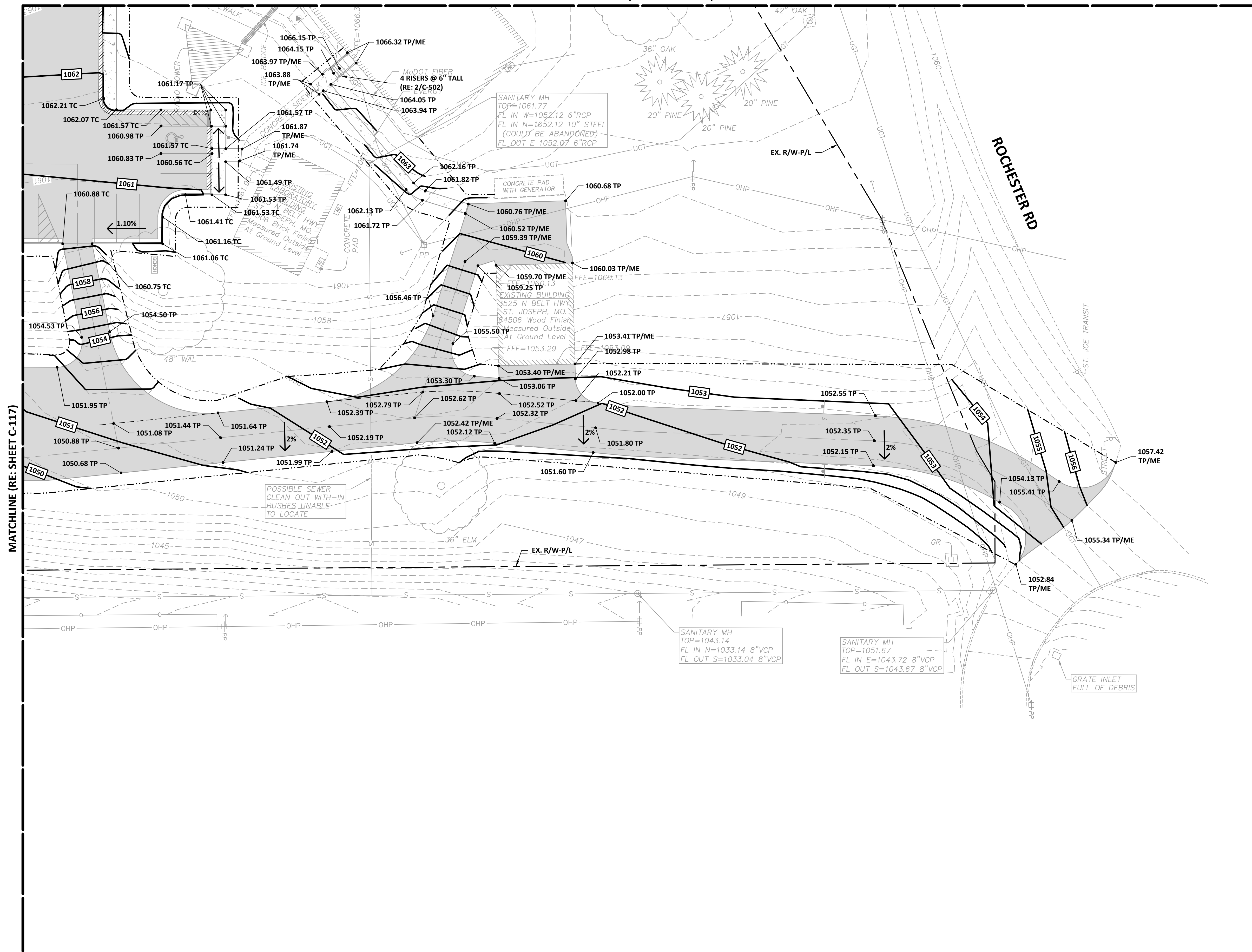
SHEET NUMBER:

**C-117**

19 OF 35 SHEETS  
03/28/2024



MATCHLINE (RE: SHEET C-116)



**GRADING LEGEND**

- XXX.XX TC - TOP OF CURB ELEVATION
- XXX.XX - SPOT ELEVATION
- XXX.XX LC - LIP OF CURB ELEVATION
- XXX.XX G - GUTTER ELEVATION
- XXX.XX ME - MATCH EXISTING ELEVATION
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- XXX.XX HP - HIGH POINT
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- XXX.XX TS - TOP OF STRUCTURE
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- XXX - PROPOSED CONTOUR
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- - DRAINAGE PATH
- - RIDGE LINE
- - APPROX PROJECT/GRADING LIMITS

**SHEET NOTE:**  
 ALL DISTURBED AREAS ARE TO BE SEEDED ACCORDING TO THE PROJECT SPECIFICATIONS.

**CURB LEGEND**

- - CURB (RE: 1/C-501)
- - TYPE "CG-1" CURB & GUTTER (RE: 2/C-501)
- - TYPE "CG-1 (MODIFIED)" CURB & GUTTER (RE: 3/C-501)
- - FLAT CURB (RE: 4/C-501)
- - TRANSITION CURB

MATCHLINE (RE: SHEET C-117)

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BUILDING

ST. JOSEPH, MISSOURI

PROJECT # R-2338-01  
SITE # 6009  
FACILITY # 8136009002 &  
8136009003

REVISION: \_\_\_\_\_  
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 REVISION: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 ISSUE DATE: \_\_\_\_\_

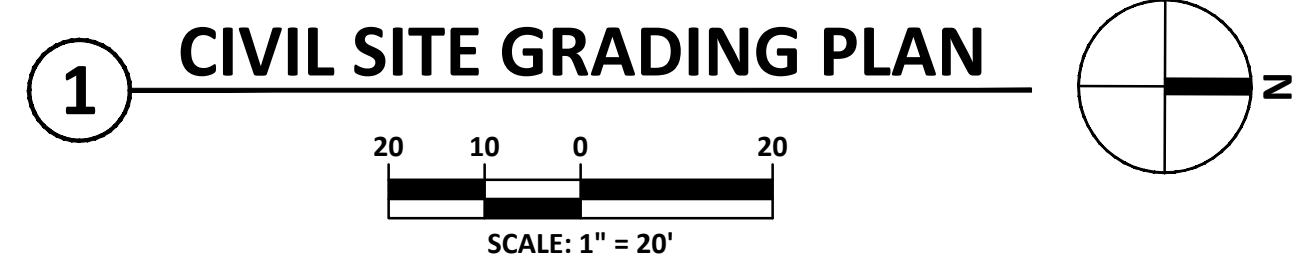
CAD DWG FILE: C-118.dwg  
DRAWN BY: DMB  
CHECKED BY: MJH  
DESIGNED BY: LF

SHEET TITLE:  
CIVIL SITE  
GRADING PLAN

SHEET NUMBER:

C-118

20 OF 35 SHEETS  
03/28/2024





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DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: \_\_\_\_\_

CAD DWG FILE: C-119.dwg  
DRAWN BY: DMB  
CHECKED BY: MJH  
DESIGNED BY: LF

SHEET TITLE:  
**EROSION &  
SEDIMENT  
CONTROL PLAN**

SHEET NUMBER:

**C-119**

21 OF 35 SHEETS  
03/28/2024

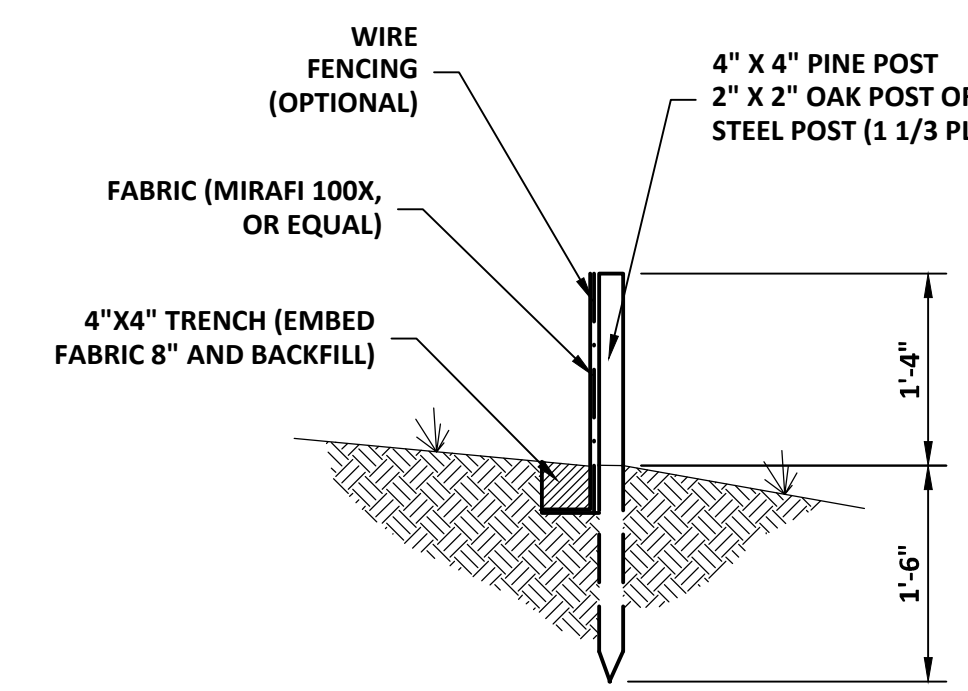
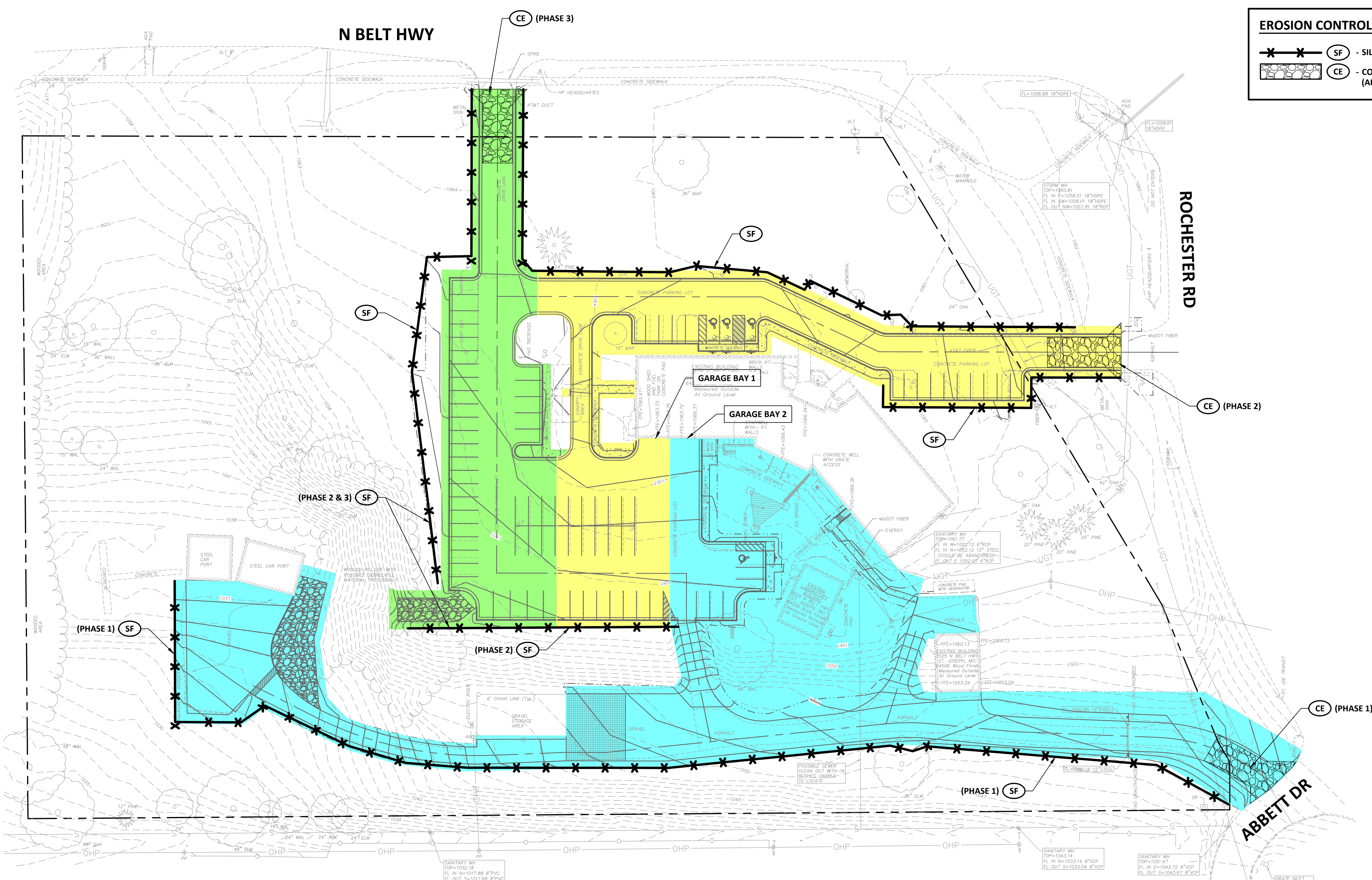
**PHASING LEGEND**

- PHASE 1
- PHASE 2
- PHASE 3

**EROSION CONTROL LEGEND**

- SILT FENCE (RE: Z/C-119)
- CONSTRUCTION ENTRANCE (APWA STD DWG ESC-01)

- EROSION CONTROL SYSTEM NOTES:**
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING BERMS, SILT FENCES, OR OTHER MEANS TO PREVENT EROSION FROM REACHING ADJACENT PROPERTY.
  - EROSION CONTROL FEATURES SHOWN ARE THE MINIMUM REQUIREMENTS ACCEPTABLE. PLACE ADDITIONAL EROSION CONTROL DEVICES AS RUNOFF AND DRAINAGE PATTERNS CHANGE DURING CONSTRUCTION TO PROHIBIT LOSS OF SOIL FROM THE SITE.
  - MINIMIZE THE AMOUNT OF SURFACE AREA EXPOSED TO THE EXTENT PRACTICABLE.
  - LEAVE GRADED AREAS WITH A ROUGH TEXTURE TO PROMOTE INFILTRATION.
  - LIMIT UNNECESSARY TRAFFIC ON GRADED AREAS.
  - INSTALL APPROVED SILT BARRIERS ON DOWNSTREAM SLOPES FOR THE EXTENT OF THE CONSTRUCTION LIMITS PRIOR TO BEGINNING ANY GRADING OPERATIONS.
  - SILT FENCES:
    - INSTALL SILT FENCES AT LOCATIONS SHOWN GENERALLY ALONG THE CONTOUR OF DOWNSTREAM SLOPES.
    - INSTALL POSTS ANGLING SLIGHTLY UPSTREAM. SPACE POSTS TO FULLY SUPPORT FABRIC, UNDER SILT AND WATER FLOW LOADING.
    - EXCAVATE 4 INCH BY 4 INCH TRENCH ON UPSTREAM SIDE, EMBED FABRIC 8 INCHES, BACKFILL TRENCH AND COMPACT.
    - FASTEN FABRIC (AND WIRE FENCE, IF USED) SECURELY TO POSTS.
  - CONTRACTOR SHALL DESIGNATE/INSTALL A CONSTRUCTION ENTRANCE/EXIT FROM THE SITE UTILIZING A SURFACE MATERIAL THAT DOES NOT TRACK ONTO ADJACENT ROADWAYS. EXIT SHALL BE OF SUFFICIENT LENGTH TO ALLOW ACCUMULATED MUD TO DROP FROM THE EXISTING VEHICLES PRIOR TO LEAVING SITE PERIMETER. INSUFFICIENT LENGTHS WILL REQUIRE ALTERNATIVE MANAGEMENT PLANS TO AVOID TRACKING MATERIALS FROM THE CONSTRUCTION BOUNDARY. AN ONSITE CONCRETE WASHPIT SHALL BE INSTALLED PER APWA STD DWG ESC-01. COORDINATE WITH OWNER AND ENGINEER ON LOCATION.
  - MAINTAIN EROSION CONTROL DEVICES IN GOOD CONDITION AT ALL TIMES. INSPECT FREQUENTLY (MINIMUM ONCE PER WEEK) AND AFTER EACH RAINFALL. WRITTEN DOCUMENTATION OF INSPECTION REPORTS AND MAINTENANCE IS REQUIRED AND SHALL BE KEPT ON CONSTRUCTION SITE FOR REVIEW BY GOVERNING AUTHORITIES. REDISTRIBUTE ACCUMULATED SEDIMENT UPSTREAM OF DEVICES.
  - REMOVE EROSION CONTROL DEVICES WHEN NO LONGER NEEDED.
  - PROPERLY DISPOSE OF SOLID WASTE, PAINTS, SOLVENTS, CLEANING COMPOUNDS, ETC.
  - STORE CONSTRUCTION MATERIALS AWAY FROM LOW AREAS AND DRAINAGEWAYS.
  - PROVIDE PORTABLE TOILETS AND PROPERLY DISPOSE OF SANITARY SEWAGE.
  - CONSTRUCT CONTAINMENT BERMS AND USE DRIP PANS AT FUEL AND LIQUID STORAGE TANKS.
  - IN THE EVENT THE PREVENTION MEASURES ARE NOT EFFECTIVE, THE CONTRACTOR SHALL REMOVE ANY EROSION DEBRIS AND RESTORE ADJACENT PROPERTY AND/OR THE RIGHT-OF-WAY TO ORIGINAL OR BETTER CONDITION.
  - CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED AREAS FOR PERMANENT VEGETATION.
    - APPLY FERTILIZER AT A RATE OF 600 POUNDS PER ACRE (7 POUNDS PER 500 SQUARE FEET).
    - SOW SEED WITH MECHANICAL SPREADER OR DRILL.
    - SOW SEED AT A TOTAL RATE ACCORDING TO APWA KC METRO CHAPTER SPECIFICATION SECTION 2400.
    - COMPACT SEEDED AREAS IMMEDIATELY FOLLOWING SOWING WITH A ROLLER WEIGHING BETWEEN 60 AND 90 POUNDS PER LINEAR FOOT.
    - INSTALL VEGETATIVE MULCH WITHIN 24 HOURS OF SEED INSTALLATION.
    - ANCHOR MULCH TO SOIL A MINIMUM OF 3 INCHES DEEP BY USE OF A HEAVY DISC HARROW OR SIMILAR EQUIPMENT. COMPLETE ANCHORING BY NOT MORE THAN 2 PASSES.
    - CONTRACTOR SHALL MAINTAIN VEGETATION UNTIL SUBSTANTIAL COMPLETION. FOLLOWING SUBSTANTIAL COMPLETION, ALL VEGETATED AREAS ARE TO BE UNDER WARRANTY FOR A PERIOD OF ONE YEAR. AREAS WHERE VEGETATION HAS NOT BEEN ESTABLISHED SHALL BE REPLACED.



- NOTES:**
- SECURELY FASTEN FABRIC AND WIRE FENCING (IF USED) TO POSTS.
  - SPACE POSTS TO FULLY SUPPORT FABRIC CONSIDERING LOADING FACTORS OF WATER RUNOFF WITH ACCUMULATED SILT.

**EROSION & SEDIMENT CONTROL PLAN**

1

SCALE: 1" = 40'

**2** SLIT FENCE  
3/4" = 1'-0"



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BUILDING

ST. JOSEPH, MISSOURI

PROJECT # R-2338-01  
SITE # 6009  
FACILITY # 8136009002 &  
8136009003

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
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REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: \_\_\_\_\_

CAD DWG FILE: C-501.dwg  
DRAWN BY: DMB  
CHECKED BY: MJH  
DESIGNED BY: LF

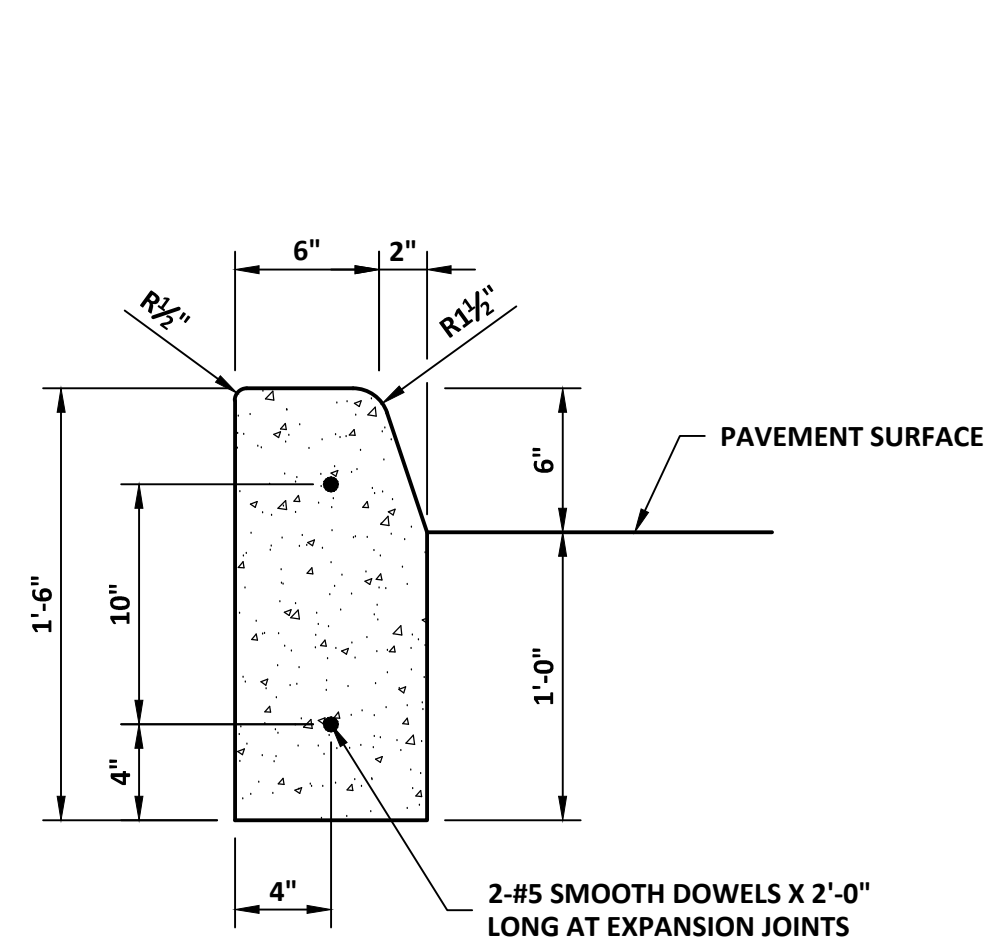
SHEET TITLE:

CIVIL SITE  
DETAILS

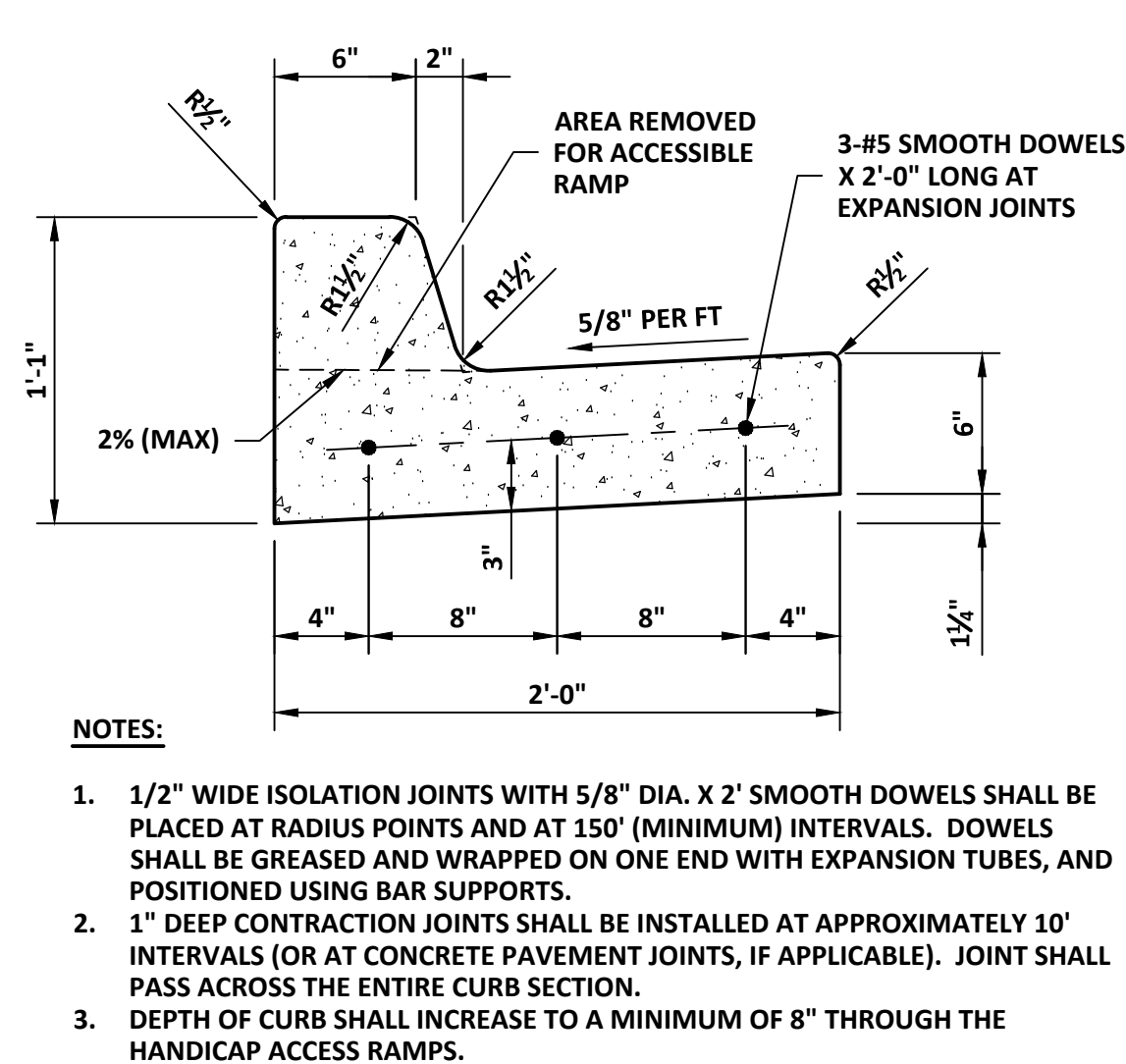
SHEET NUMBER:

C-501

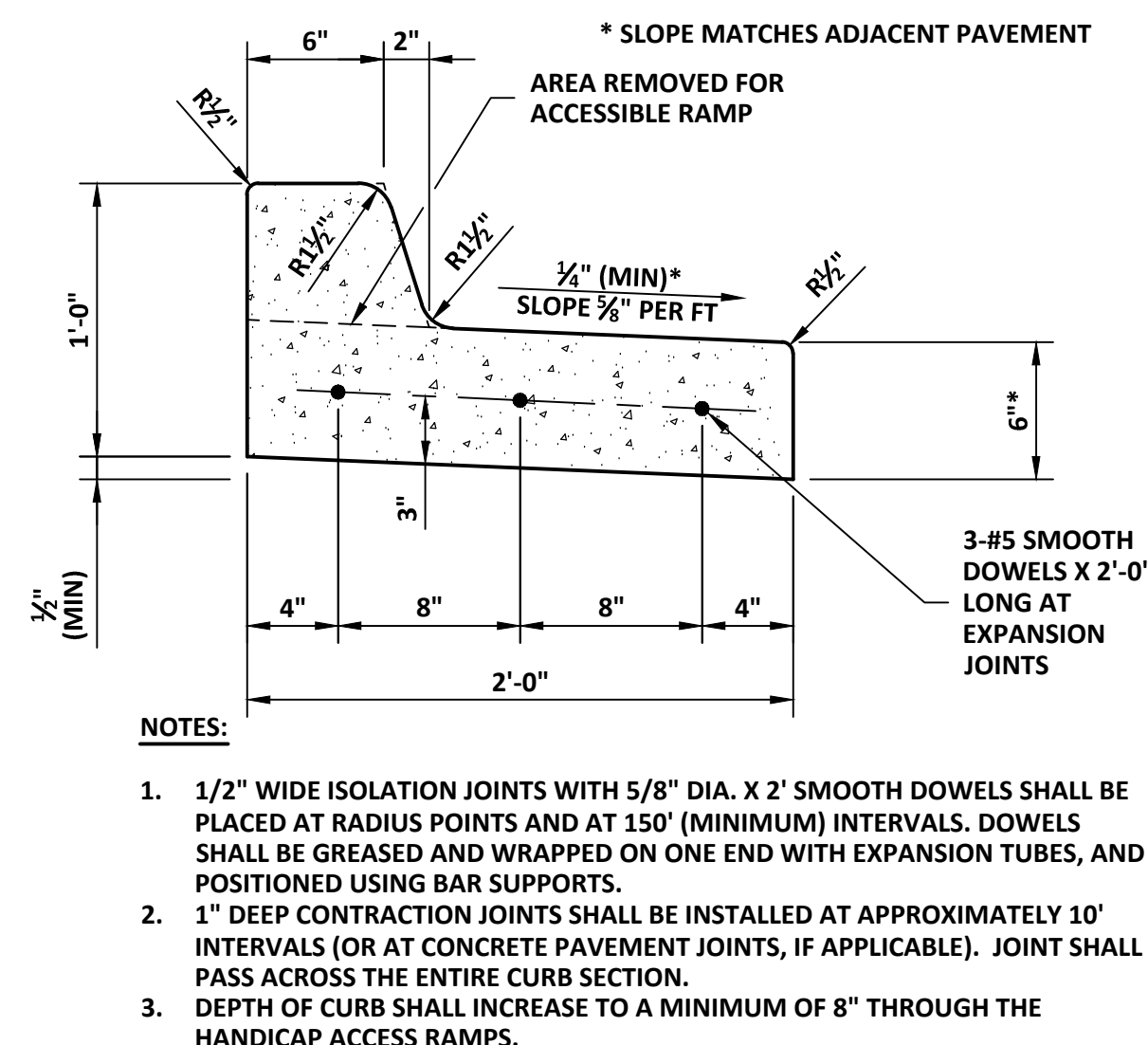
22 OF 35 SHEETS  
03/28/2024



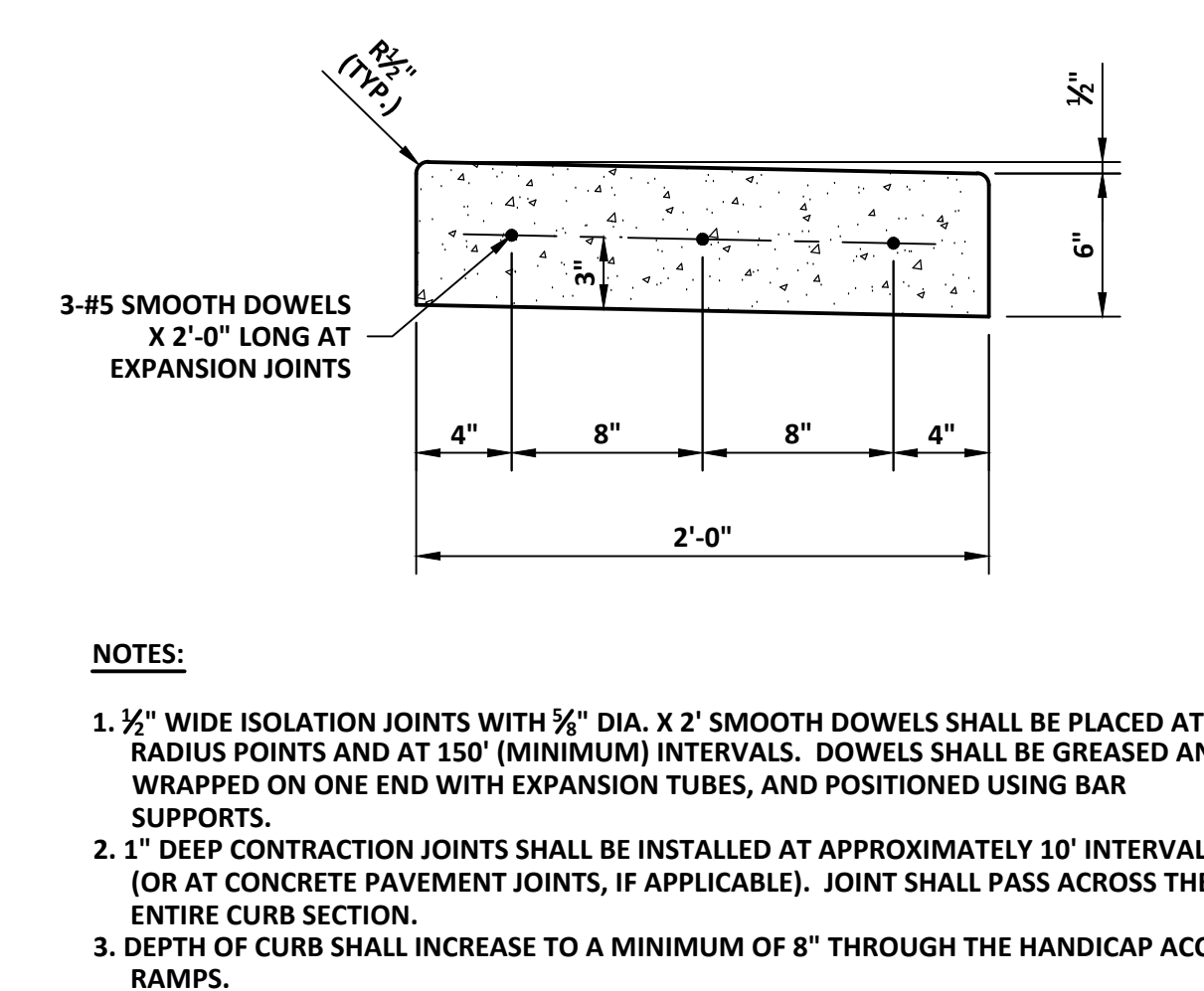
**1** CURB  
1 1/2" = 1'-0"



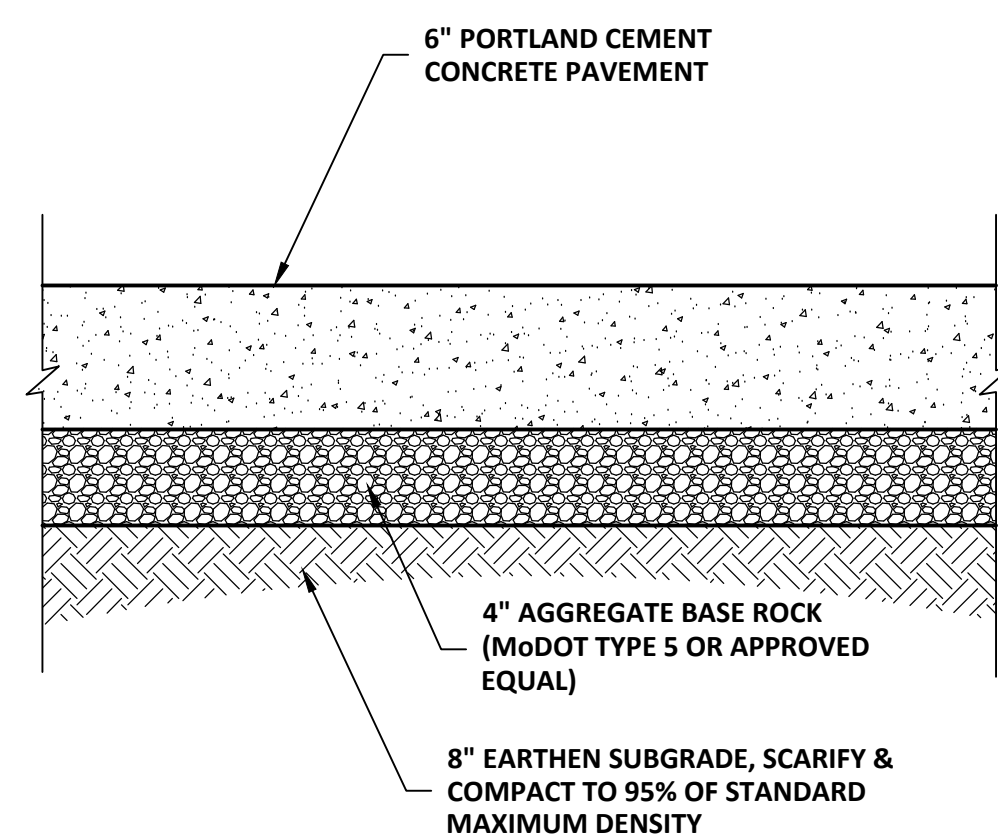
**2** CG-1 CURB AND GUTTER  
1 1/2" = 1'-0"



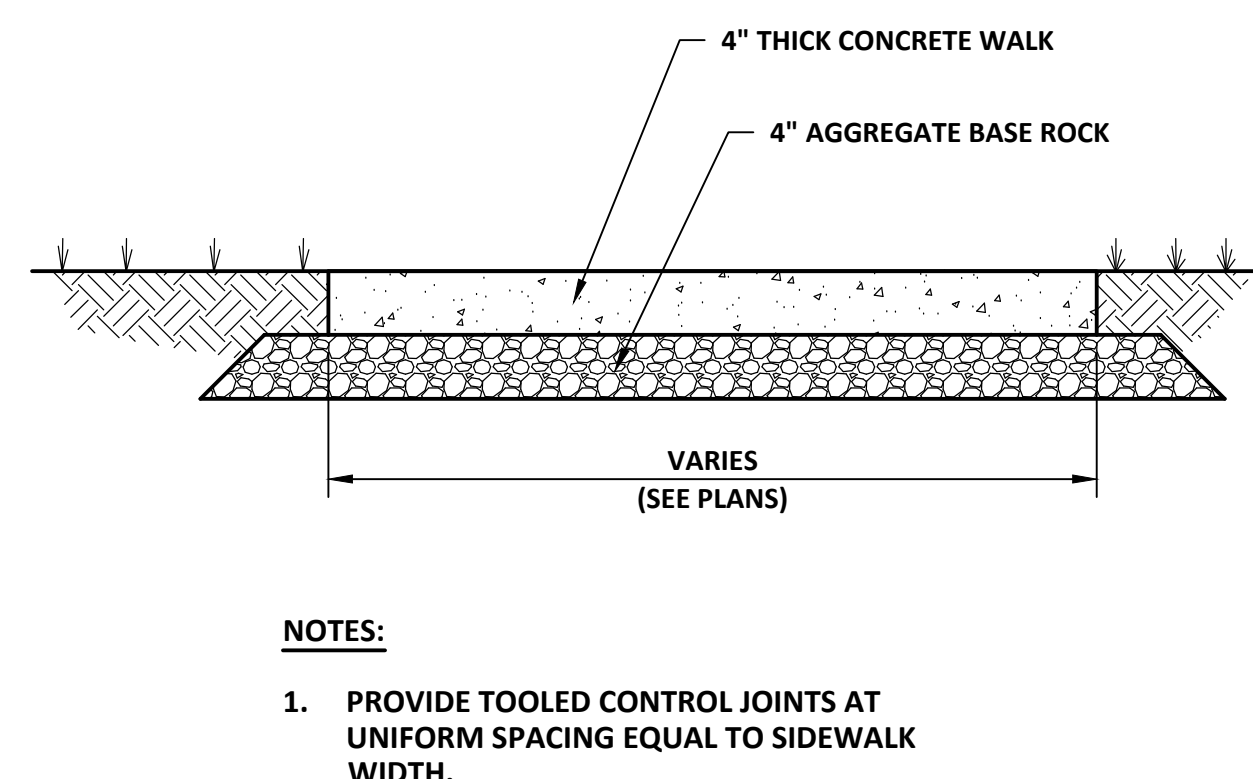
**3** CG-1 MODIFIED CURB & GUTTER  
1 1/2" = 1'-0"



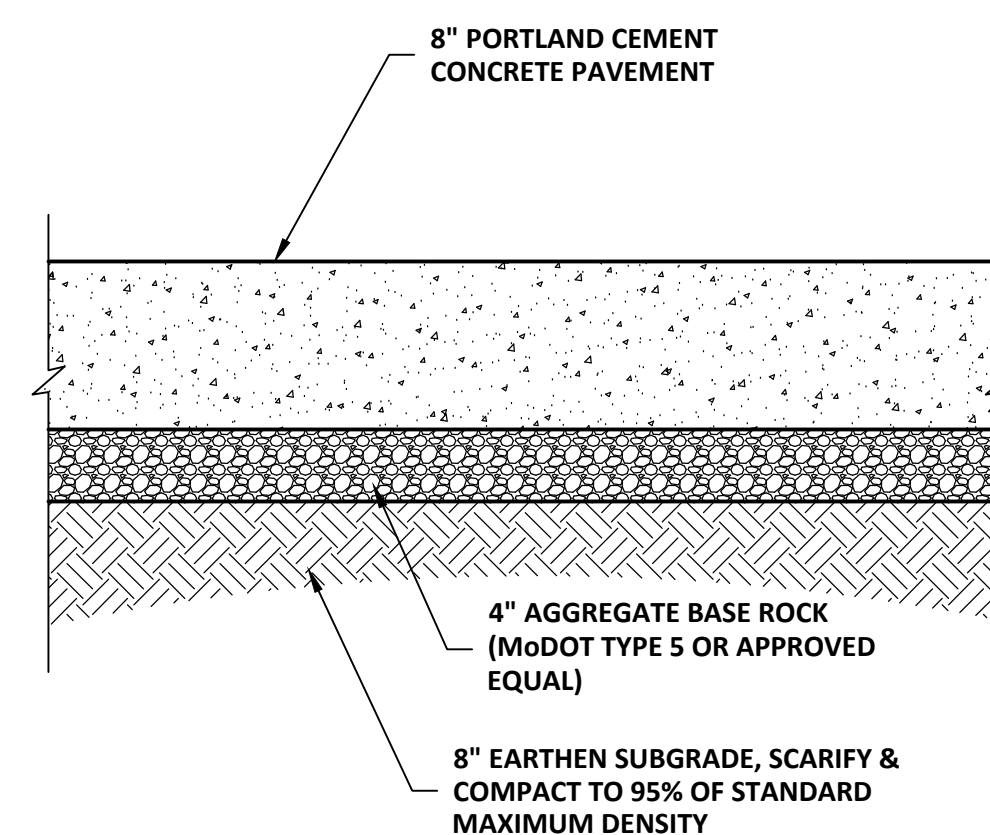
**4** FLAT CURB  
1 1/2" = 1'-0"



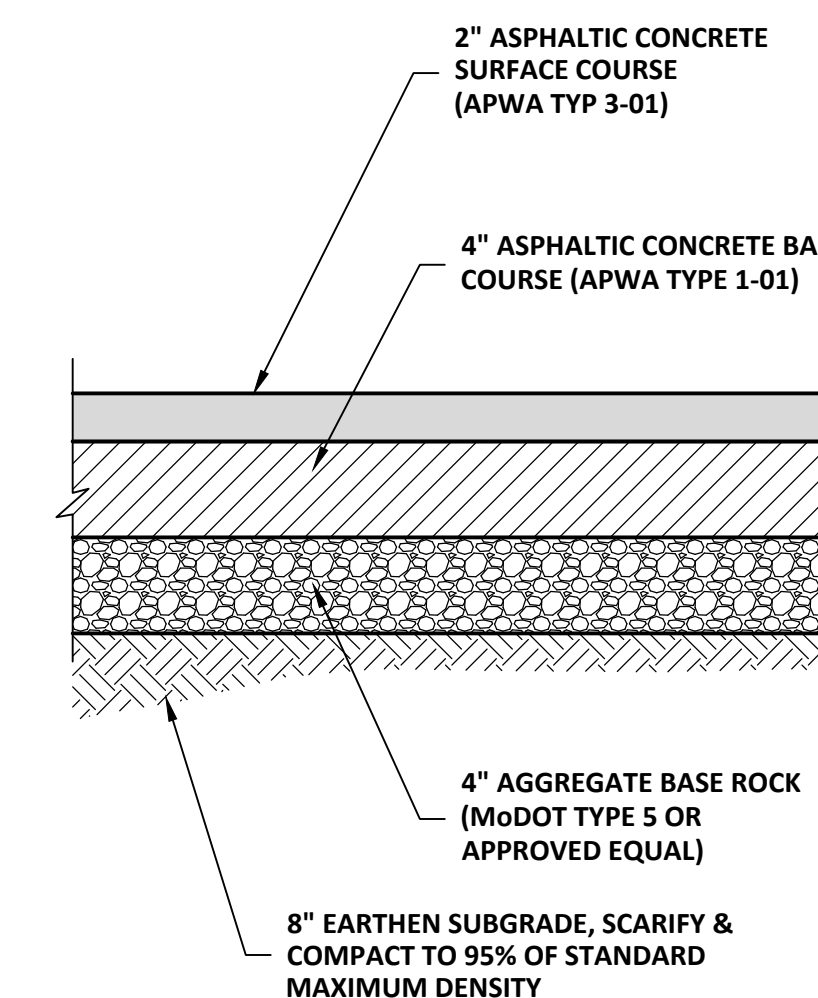
**5** CONCRETE PAVEMENT SECTION  
1 1/2" = 1'-0"



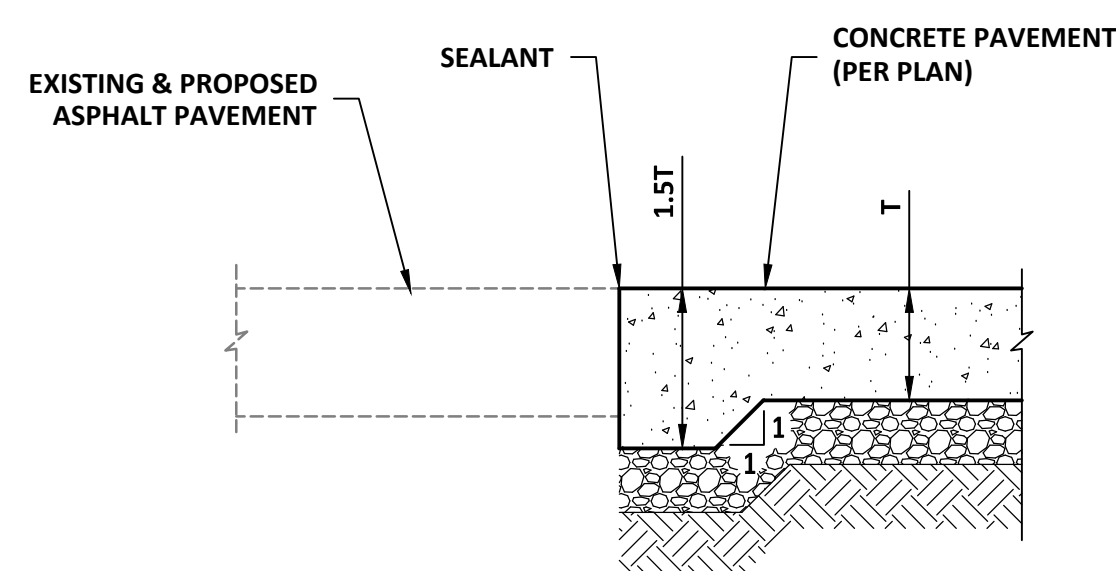
**6** CONCRETE WALK SECTION  
1" = 1'-0"



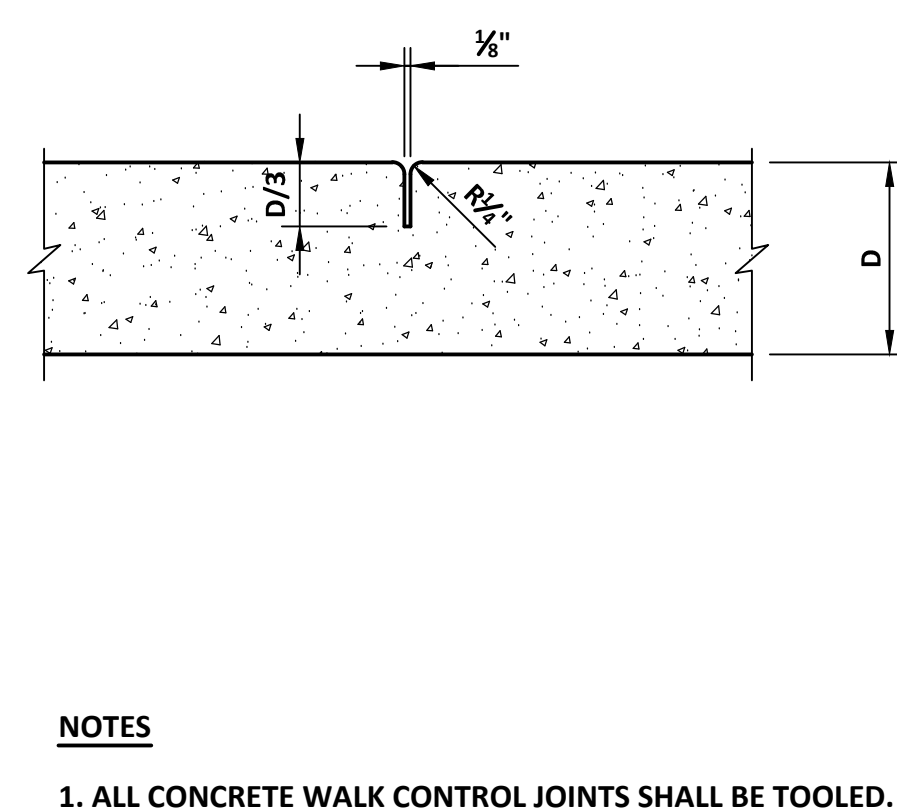
**7** CONCRETE PAVEMENT SECTION  
(HEAVY DUTY)  
1 1/2" = 1'-0"



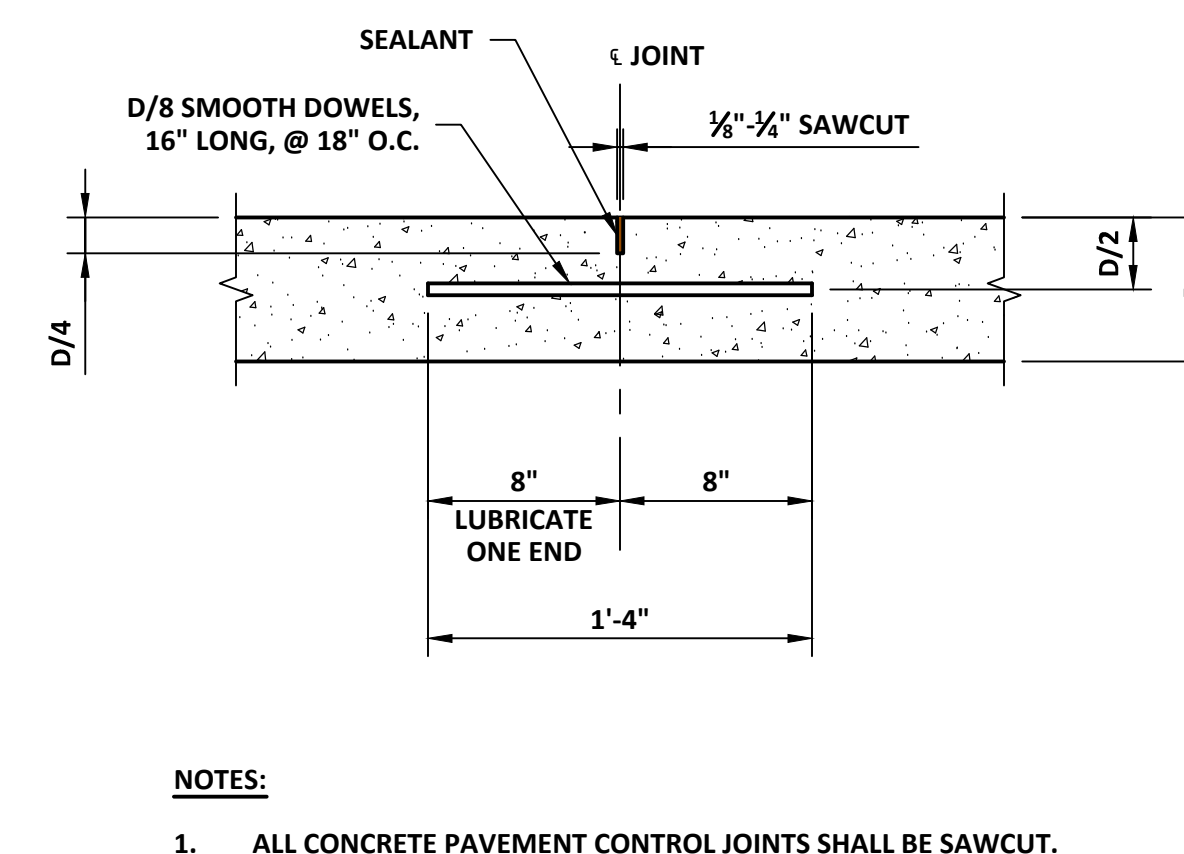
**8** ASPHALT CONCRETE PAVEMENT SECTION  
1 1/2" = 1'-0"



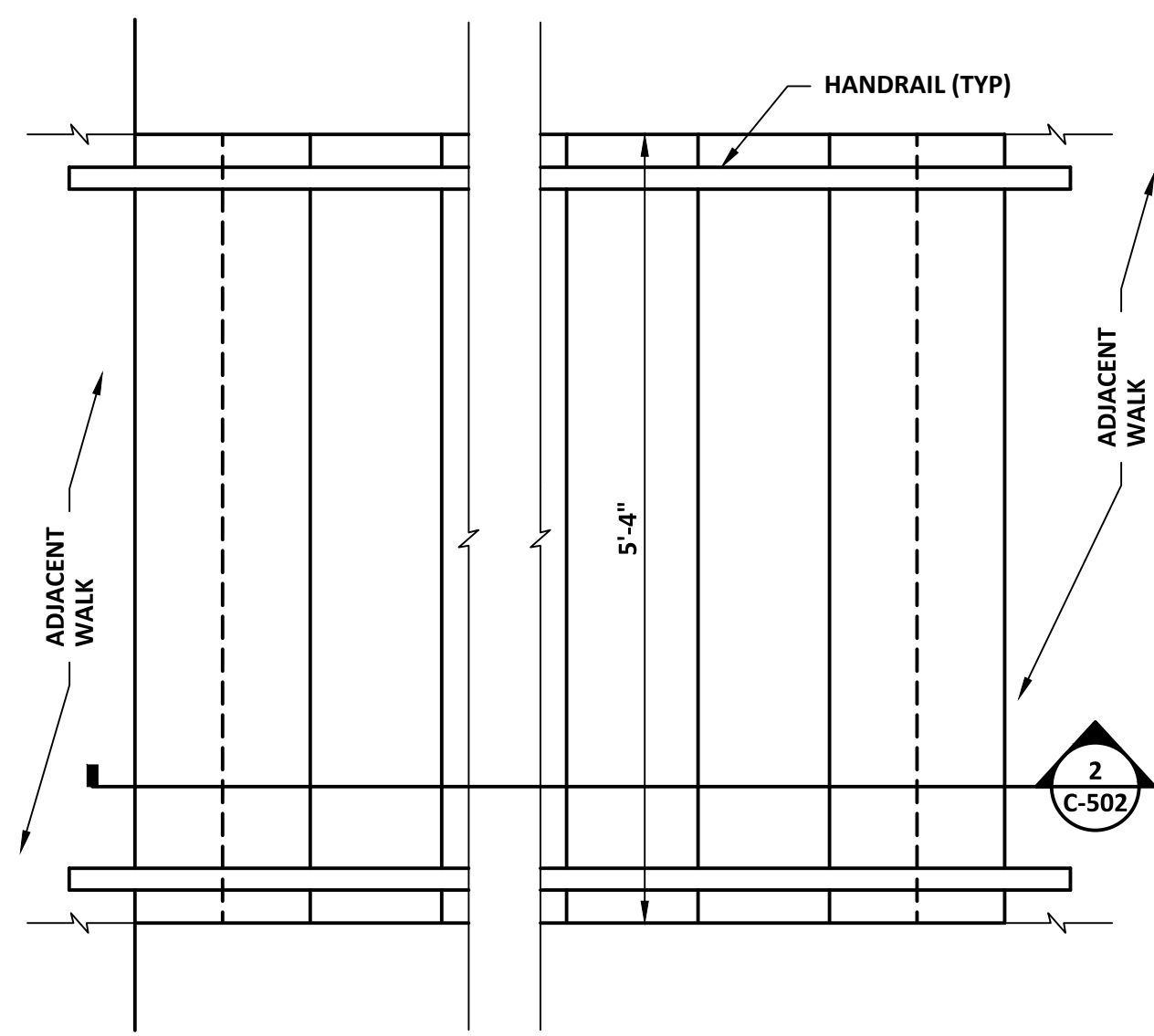
**9** CONCRETE HEADER AT ASPHALT  
1" = 1'-0"



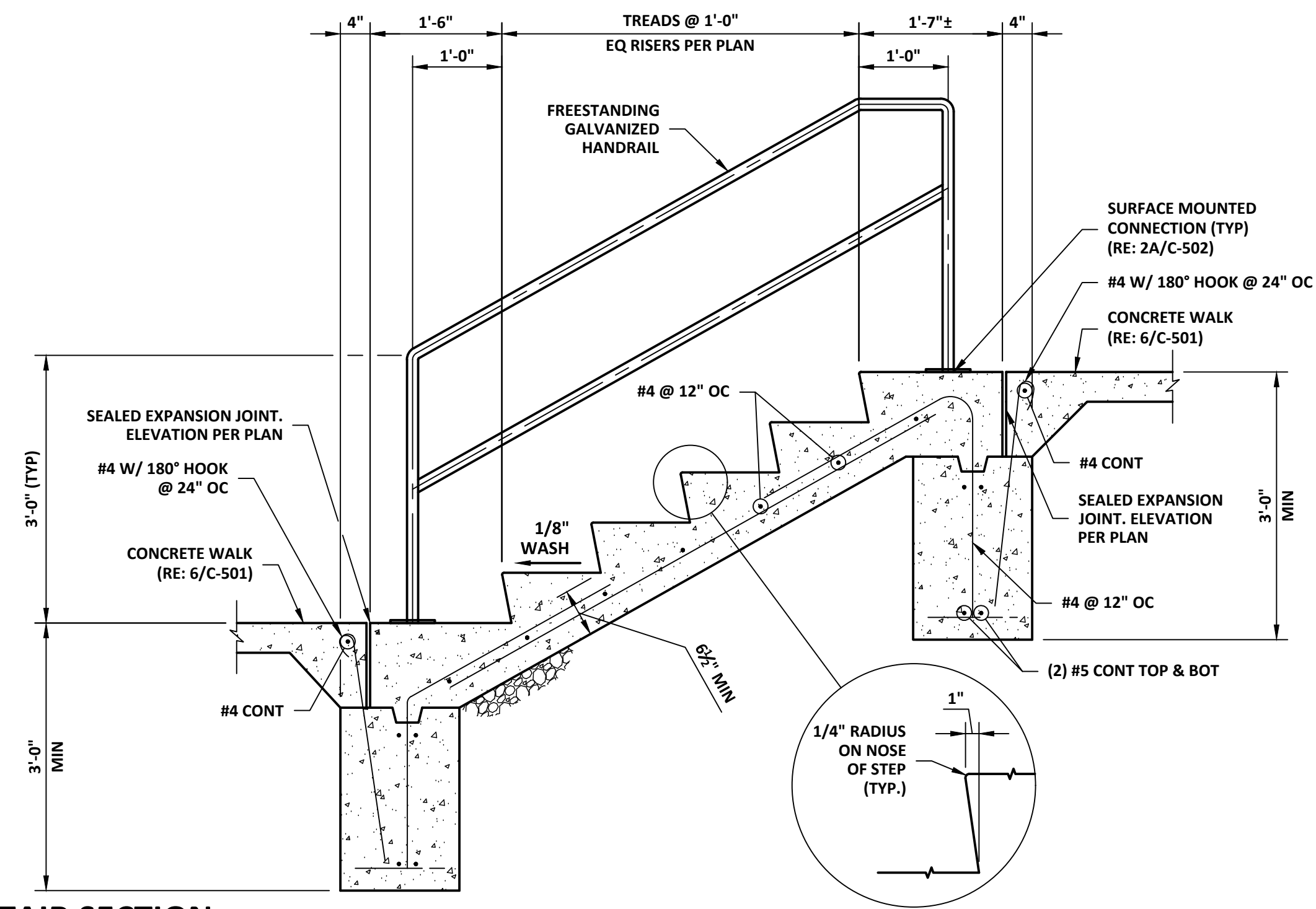
**10** CONCRETE WALK CONTROL JOINT  
3" = 1'-0"



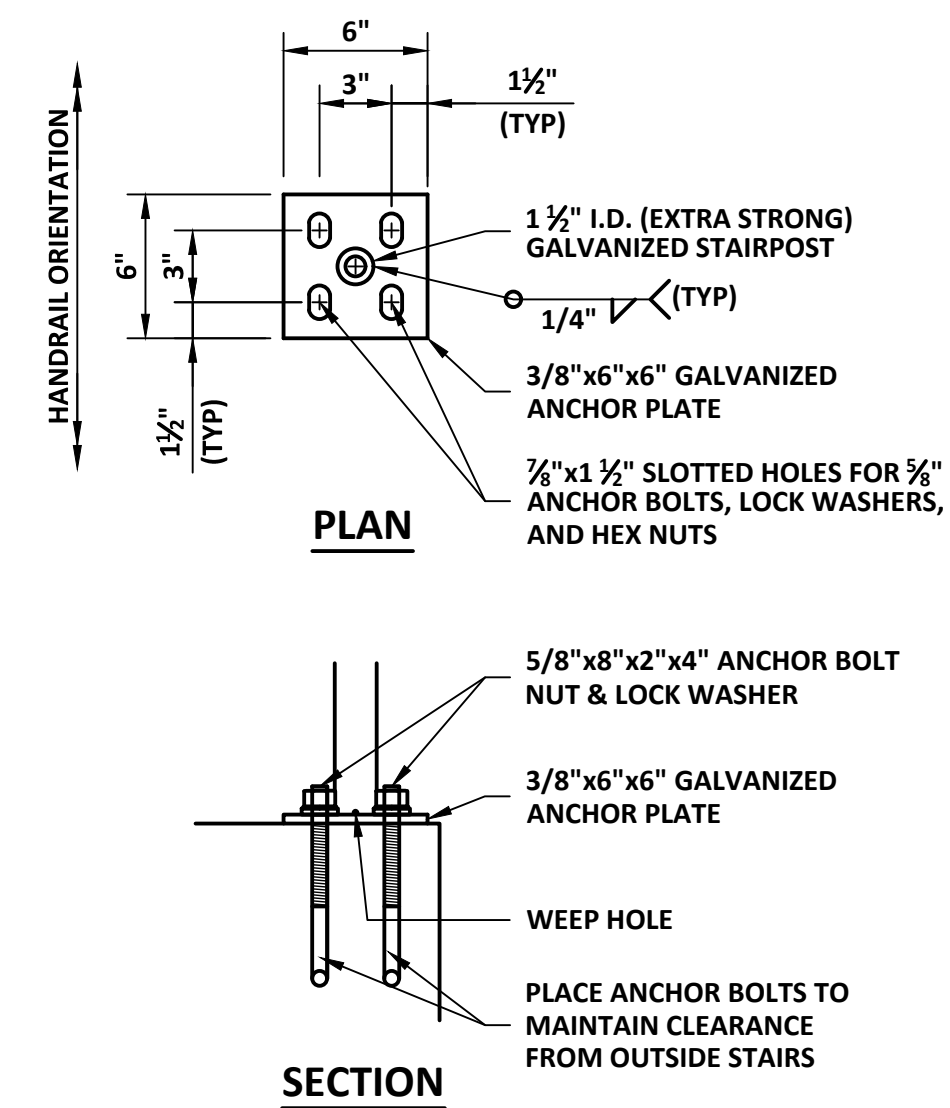
**11** CONCRETE PAVEMENT CONTROL JOINT  
1 1/2" = 1'-0"



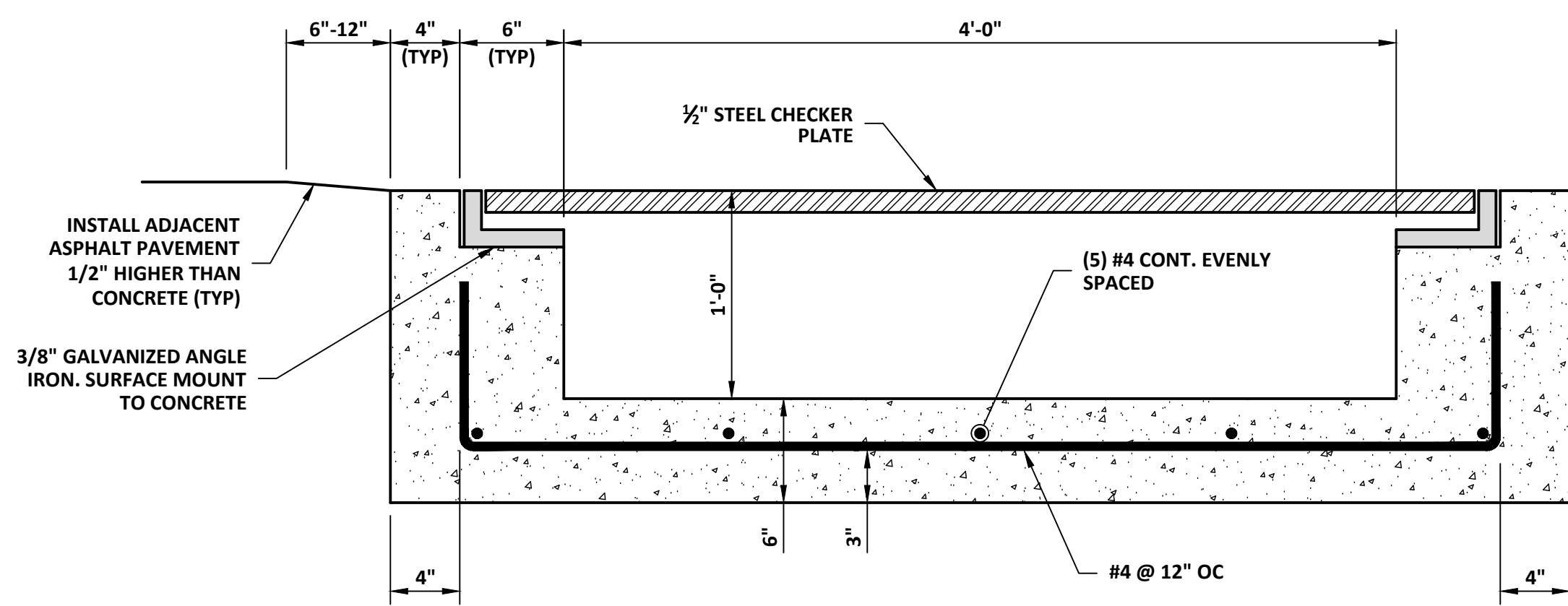
**1 CONCRETE STAIR PLAN**  
3/4" = 1'-0"



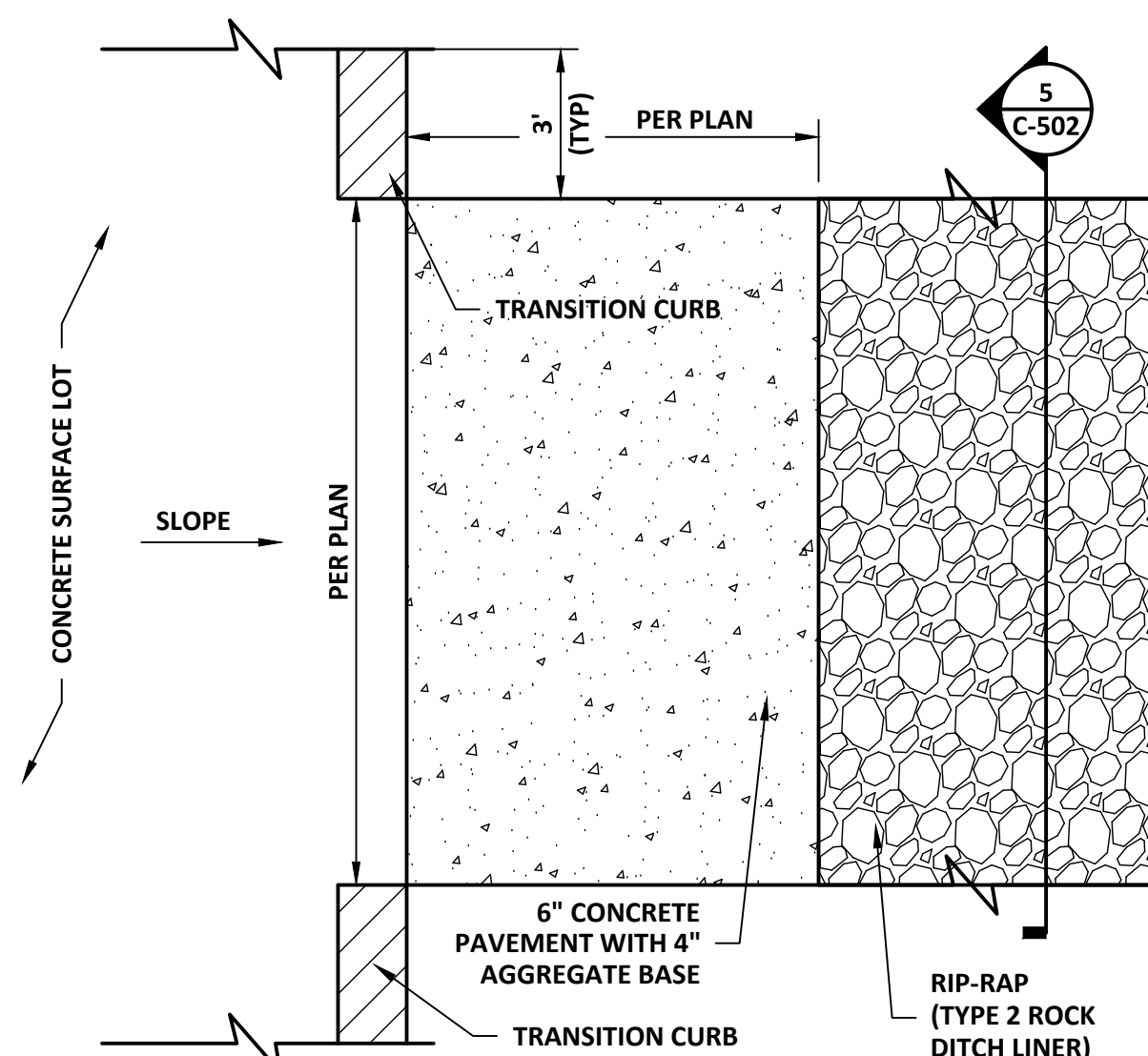
**2 STAIR SECTION**  
3/4" = 1'-0"



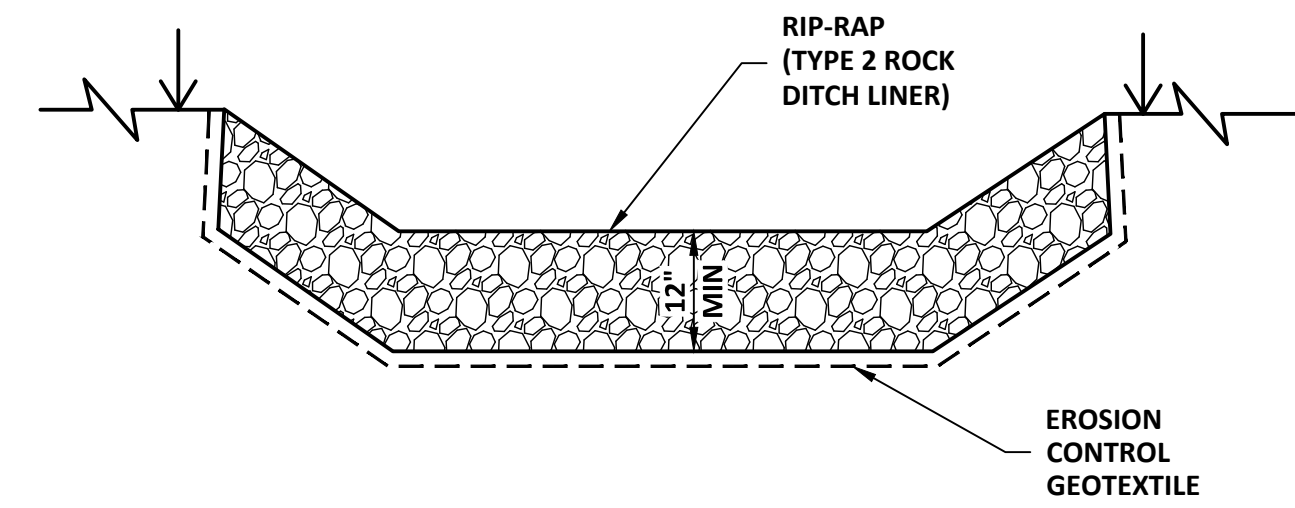
**2A CONNECTION DETAIL**  
1 1/2" = 1'-0"



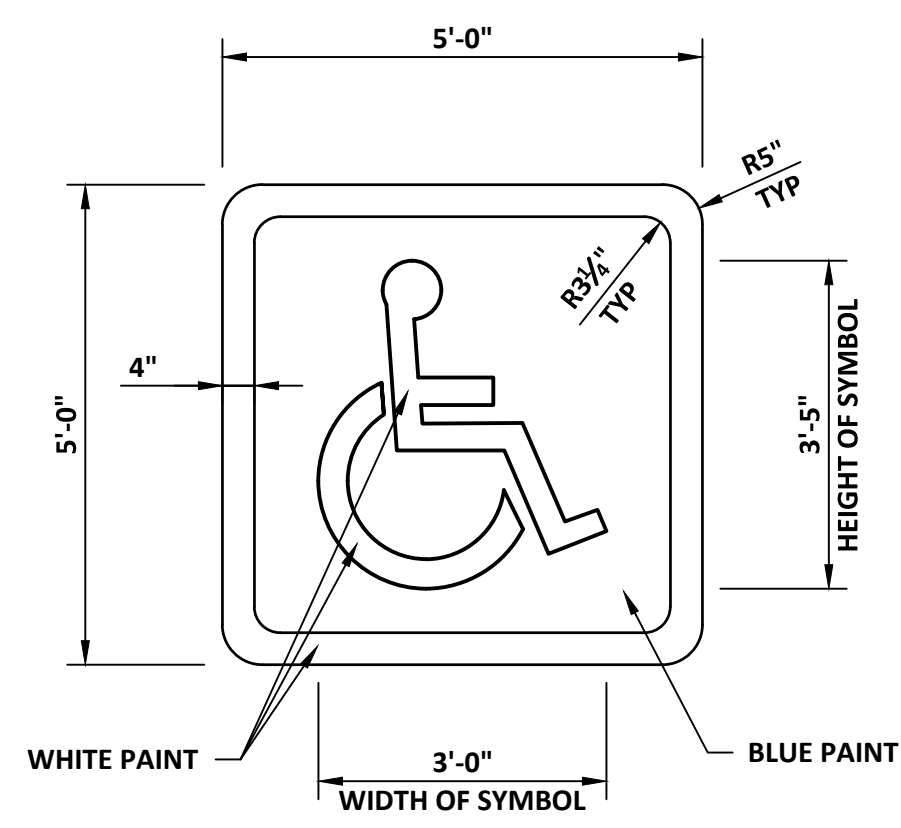
**3 TRENCH DRAIN**  
1 1/2" = 1'-0"



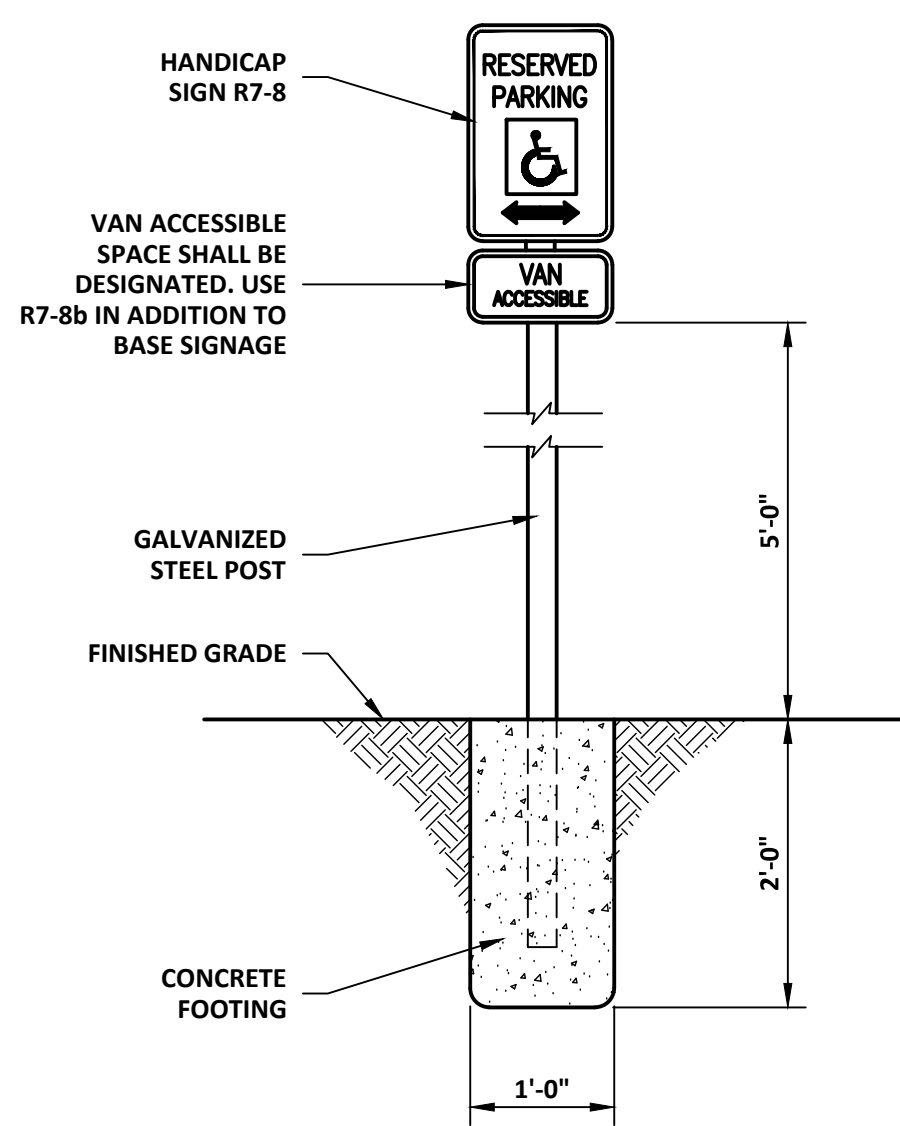
**4 CURB CUT PLAN**  
3/4" = 1'-0"



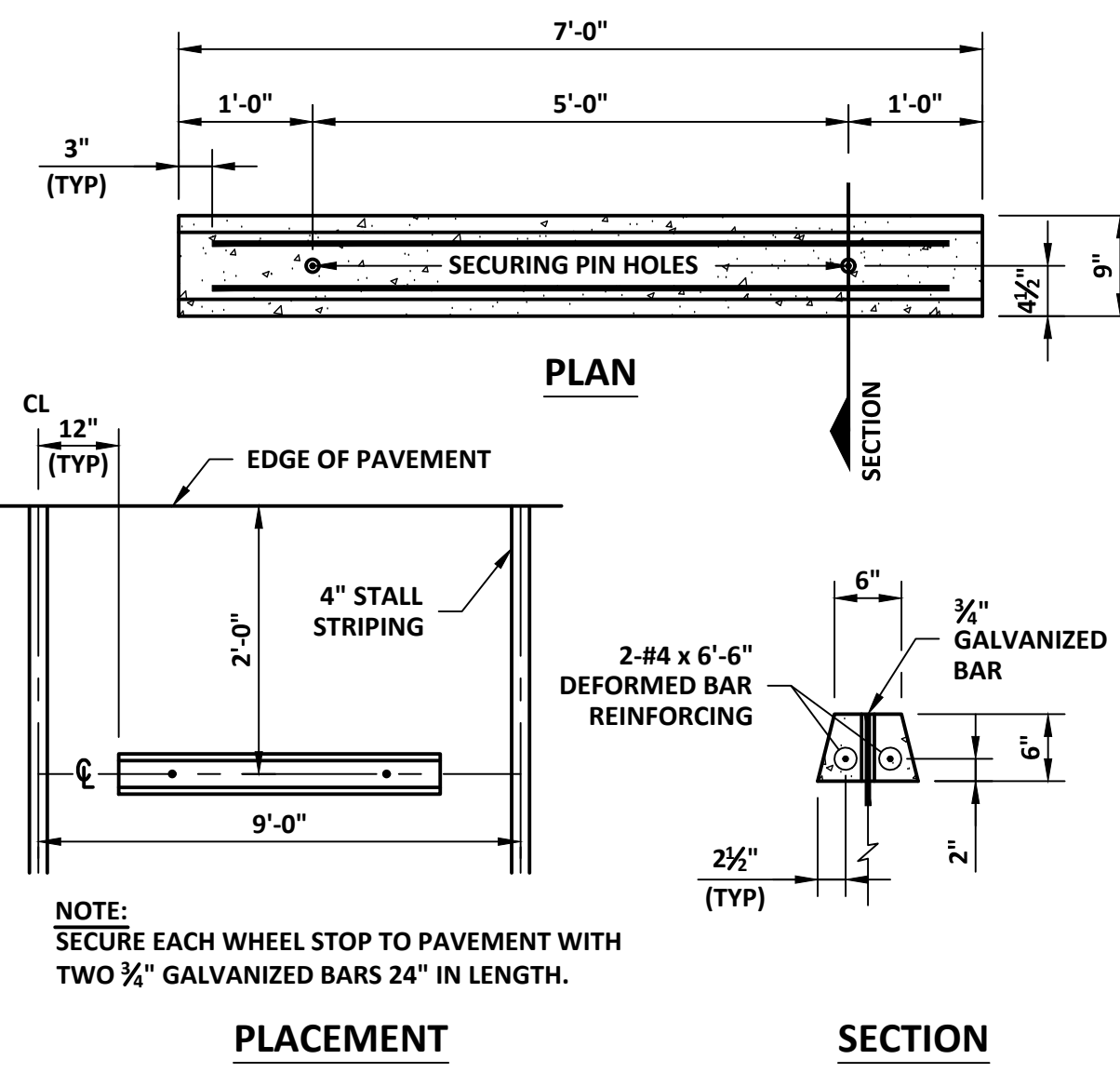
**5 SECTION**  
3/4" = 1'-0"



**6 ACCESSIBLE PARKING SYMBOL**  
1/2" = 1'-0"



**7 ACCESSIBLE PARKING SIGN**  
3/4" = 1'-0"



**8 CONCRETE WHEEL STOP**  
3/4" = 1'-0"



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PROJECT # R-2338-01  
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CAD DWG FILE: C-502.dwg  
DRAWN BY: DMB  
CHECKED BY: MJH  
DESIGNED BY: LF

SHEET TITLE:  
**CIVIL SITE  
DETAILS**

SHEET NUMBER:

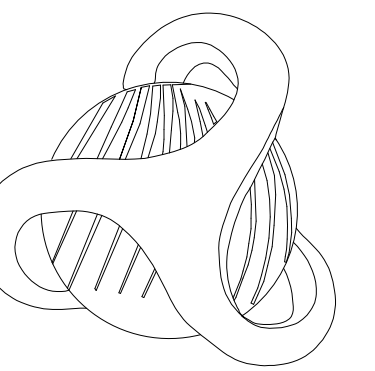
**C-502**

23 OF 35 SHEETS  
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ISSUE DATE: \_\_\_\_\_

CAD DWG FILE: \_\_\_\_\_  
DRAWN BY: MCC \_\_\_\_\_  
CHECKED BY: CKB \_\_\_\_\_  
DESIGNED BY: HAK \_\_\_\_\_

SHEET TITLE:

**ELECTRICAL  
LEGEND &  
GENERAL NOTES**

SHEET NUMBER:

**E-000**

24 OF 35 SHEETS  
03/28/2024

**GENERAL ELECTRICAL NOTES**

- THIS IS A GENERAL LEGEND SHEET. SOME SYMBOLS AND ABBREVIATIONS MAY NOT BE USED ON THIS SPECIFIC PROJECT.
- ALL WORK SHALL CONFORM WITH THE MOST CURRENT NATIONAL ELECTRICAL CODE AND ALL STATE AND LOCAL CODES AND ORDINANCES AND O.S.H.A. WHERE MINIMUM CODE REQUIREMENTS ARE EXCEEDED BY THE REQUIREMENTS INDICATED IN THE SPECIFICATIONS AND ON THESE DRAWINGS, THE DRAWINGS AND SPECIFICATIONS SHALL TAKE PRECEDENCE. (IN THE CASE OF CODE CONFLICT DIRECTION SHALL BE TAKEN FROM THE MORE STRICT OF THE CONFLICTING CODES).
- CAREFULLY REVIEW CONTRACT DOCUMENTS INCLUDING DRAWINGS & PROJECT MANUAL. INFORMATION REGARDING WORK OF THE VARIOUS TRADES & SUBCONTRACTORS ARE DISPERSED THROUGHOUT THE DOCUMENTS & CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE FULL SET OF DOCUMENTS. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES TO PROVIDE THE GREATEST POSSIBLE CLEARANCE FOR INSTALLATION OF THE MECHANICAL, PIPING, ETC. CONDUIT & PIPE TO BE RUN TO MAXIMIZE USE OF CEILING SPACE FOR USE BY OTHER TRADES.
- CONDUIT ROUTES SHOWN ARE DIAGRAMMATIC ONLY. CONTRACTOR SHALL FIELD VERIFY AND PROVIDE CONDUIT ROUTES AS REQUIRED. CONTRACTOR IS RESPONSIBLE FOR ROUTING ALL CONDUITS NOT SHOWN ON THE DRAWINGS, INCLUDING BUT NOT LIMITED TO CONDUITS SHOWN ON THE ONE-LINE AND CONTROL DIAGRAMS AS WELL AS HOME RUNS SHOWN ON THE PLAN DRAWINGS. CONDUITS SHALL BE ROUTED AS DEFINED IN THE SPECIFICATIONS.
- WHERE EXISTING CIRCUITS, CONDUCTORS, CONDUITS, JUNCTION BOXES, PANELS, SWITCHES AND OTHER EQUIPMENT CONFLICTS WITH NEW CONSTRUCTION, EXISTING EQUIPMENT SHALL BE RELOCATED TO MAINTAIN FUNCTION AND SERVICE.
- AT THE CONCLUSION OF THIS PROJECT PROVIDE AN UPDATED TYPEWRITTEN, AS-BUILT DIRECTORY INSIDE EACH PANELBOARD/SWITCHBOARD PROPERLY IDENTIFYING EACH CIRCUIT USED & THE SPECIFIC LOAD SERVED. ALSO PROVIDE SCHEDULES ON CD DISK.
- FIELD VERIFY EXACT LOCATION OF ALL FLOOR PENETRATIONS PRIOR TO ROUGH-IN INSTALLATION.
- OPENINGS SHALL BE CUT TO THE EXACT SIZE REQUIRED IN ORDER TO MAINTAIN ANY MATERIAL RATINGS AND SEALED TO MAINTAIN RATING. PROVIDE ALL NECESSARY FLOOR CUTTING/PENETRATIONS AND ALL OF THE RE-PATCHING FOR THE COMPLETE EXECUTION OF THIS WORK.
- CONCEAL ALL ELECTRICAL WIRING AND RACEWAYS WHERE CONSTRUCTION PERMITS. EXPOSED RACEWAY SHALL BE MINIMIZED WHERE STRUCTURE IS EXPOSED TO VIEW. WHERE NECESSARY, CAREFULLY INSTALL RACEWAYS PARALLEL TO WALLS, BEAMS AND COLUMNS. EXPOSED RACEWAY SHALL BE HELD TIGHT TO STRUCTURE & LOCATED SO AS TO KEEP IT AS INCONSPICUOUS AS POSSIBLE.
- PROVIDE FIRESTOPPING TO MAINTAIN FIRE RATINGS AT ALL PENETRATIONS OF RATED CONSTRUCTION.
- ALL SPARE WIRES SHALL BE TAPED AND COILED.
- COORDINATE ALL DEVICES AND WIRING WITH EQUIPMENT NAMEPLATE DATA. VERIFY THE ELECTRICAL LOADS, MOUNTING HEIGHTS AND NEMA CONFIGURATIONS WITH THE PLUMBING AND OTHER CONTRACTORS AND SUPPLIERS PRIOR TO ROUGH-IN.
- PROVIDE FINAL CONNECTION, WIRING, HOOK-UP, ETC. FOR ALL EQUIPMENT AND CONTROLS REQUIRING ELECTRICAL POWER TO OPERATE.
- FURNISH AND INSTALL ALL WIRE, WIREWAY, CONDUIT, CONNECTORS, OUTLETS, ETC. NECESSARY TO ACHIEVE A COMPLETE AND WORKING INSTALLATION.
- ALL EMPTY CONDUITS SHALL BE PROVIDED WITH A PULL WIRE OR STRING.
- ALL ELECTRICAL DEVICES IN PUBLIC AREAS SHALL BE MOUNTED PER A.D.A. REQUIREMENTS.
- ALL EXTERIOR MOUNTED ELECTRICAL DEVICES AND EQUIPMENT SHALL BE IN WEATHERPROOF ENCLOSURE AND U.L. LISTED FOR WET LOCATION AND/OR UL/NEMA 3R LISTED U.N.O.
- CONTRACTOR SHALL REFER TO ARCHITECTS DETAILS AND ELEVATIONS FOR COORDINATION OF LOCATION OF ALL WIRING DEVICES BEFORE ROUGH-IN OF J-BOXES.
- NO "PIGGYBACK" BREAKERS SHALL BE ALLOWED.
- ALL SINGLE-PHASE CIRCUITS SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR.
- ALL FEEDERS SHALL HAVE A SEPARATE COPPER GROUNDING CONDUCTOR INSTALLED. IN NO CASE SHALL THE CONDUIT OR RACEWAY BE USED AS THE GROUNDING CONDUCTOR.
- ALL ELECTRICAL LIGHTING WIRE SHALL NOT BE SMALLER THAN #12A.W.G. TIN-PLATED COPPER WIRE.
- ALUMINUM CONDUCTORS SHALL NOT BE PERMITTED.
- NON-METALLIC CABLE IS NOT PERMITTED.
- COLOR AND MATERIAL FOR ALL SWITCHES, AND COVER PLATES SHALL BE SELECTED BY ARCHITECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING ALL CONDUITS NOT SHOWN ON THE PLANS. THIS SHALL INCLUDE ALL CONDUITS SHOWN ON THE ONE-LINES AND HOMERUNS SHOWN ON THE PLAN DRAWINGS. CONDUITS SHALL BE ROUTED AS INDICATED ON THE DRAWINGS AND DEFINED IN THE SPECIFICATIONS.
- IN AREAS WHERE OVERHEAD BRIDGE CRANES OPERATE CONDUIT SHALL BE ROUTED TO AVOID INTERFERENCE. IN AREAS WHERE GENERAL MAINTENANCE ACTIVITY OCCURS, CONDUIT SHALL BE ROUTED TO AVOID OR MINIMIZE THE POTENTIAL INTERFERENCE.
- INSTALL ANY / ALL CORD SETS SUPPLIED WITH THE EQUIPMENT.
- MOUNT DISCONNECT SWITCHES AND COMBINATION STARTERS AT 65° AFF. TO TOP OF ENCLOSURE UNLESS OTHERWISE INDICATED.
- IF EQUIPMENT SUPPLIED BY MANUFACTURER HAS A LARGER LOAD THAN VALUE SHOWN, THE CABLE CONDUIT AND ELECTRICAL EQUIPMENT SHALL BE ENLARGED, AS REQUIRED, TO ACCOMMODATE THE HIGHER VALUE.

**GENERAL CONSTRUCTION NOTES**

- ALL ELECTRICAL WORK SHALL CONFORM WITH LOCAL AND STATE ELECTRICAL CODES, O.S.H.A., AND THE LATEST NATIONAL ELECTRICAL CODE AND ELECTRICAL SPECIFICATIONS.
- ALL ELECTRICAL LIGHT AND POWER WIRE SHALL NOT BE SMALLER THAN #12 A.W.G. COPPER. ALUMINUM CONDUCTORS SHALL NOT BE PERMITTED. ALL SERVICE, FEEDER, AND BRANCH CIRCUIT CONDUCTORS SHALL HAVE TYPE THWN/THHN (90 DEGREE) INSULATION. LIGHTING FIXTURE WIRE INSULATION SHALL HAVE A TEMPERATURE RATING NOT LESS THAN THE INDIVIDUAL LIGHTING FIXTURE'S MANUFACTURER RECOMMENDED RATING. NON-METALLIC CABLE IS NOT PERMITTED.
- E.C. SHALL FURNISH AND INSTALL. FOR WORK DESIGNATED AS HIS RESPONSIBILITY. ALL WIRE, WIREWAY, CONDUIT, CONNECTORS, OUTLETS, ETC. NECESSARY TO ACHIEVE A COMPLETE ELECTRICAL INSTALLATION. WHERE AN ELECTRICAL DEVICE IS REQUIRED BY CODE BUT NOT SHOWN, IT SHALL BE FURNISHED AND INSTALLED BY E.C. AS THOUGH FULLY SHOWN AND SPECIFIED.
- THE TERM "E.C." IN THESE NOTES REFERS TO THE ELECTRICAL SUBCONTRACTOR.
- ELECTRICAL CONTRACTOR SHALL COORDINATE THIS WORK WITH THE MECHANICAL CONTRACTOR.
- ELECTRICAL CONNECTION TO ALL EQUIPMENT SUPPLIED BY OTHERS SHALL BE THE RESPONSIBILITY OF THE E.C. UNLESS OTHERWISE NOTED.
- COORDINATE WIRING OF THERMOSTATS WITH THE MECHANICAL SUBCONTRACTOR.

**ABBREVIATIONS**

AC	ABOVE COUNTER
AF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
DISP	DISPOSAL
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EXIST	EXISTING
FACP	FIRE ALARM CONTROL PANEL
GC	GENERAL CONTRACTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
KVA	KILOVOLT
KW	KILOWATT
MDP	MAIN DISTRIBUTION PANEL
M.L.O.	MAIN LUGS ONLY
N.E.C.	NATIONAL ELECTRICAL CODE
NTS	NOT TO SCALE
PNL	PANELBOARD
SE	SERVICE ENTRANCE LISTED LABELED
TYP	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
WP	WEATHERPROOF

**ELECTRICAL LEGEND**

- ◀ FLOOD LIGHT
- YARD LIGHT / ENTRANCE LIGHT
- TWIN-PARKING AREA LIGHT





**A DEMO - MONUMENT LIGHT**  
NTS

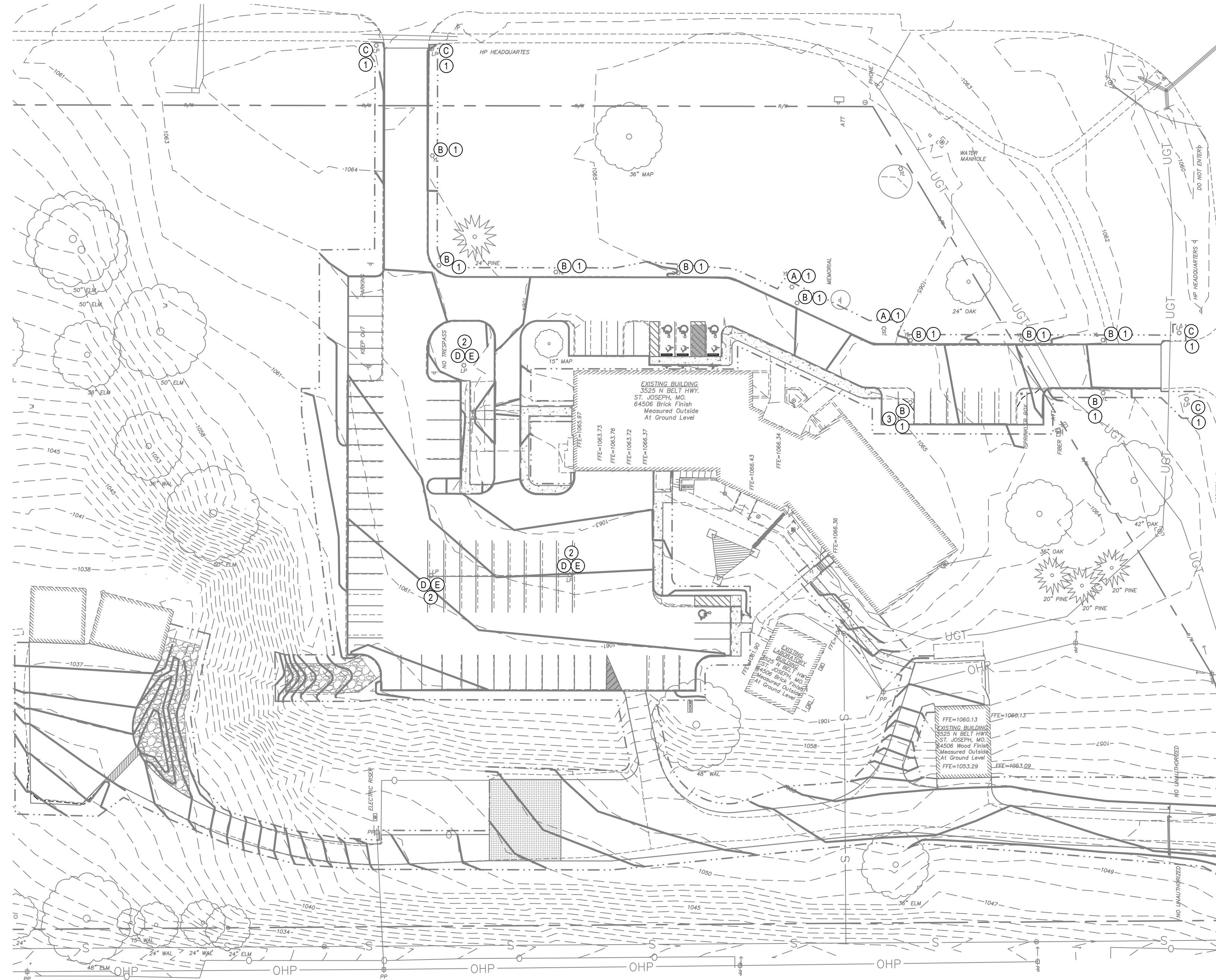


**B DEMO - YARD LIGHT**  
NTS



**C DEMO - ENTRANCE LIGHT**  
NTS

SITE LIGHTING DEMO QUANTITY SCHEDULE						
MARK	TYPE	VOLTS	MOUNTING	NUMBER OF LIGHTS TO BE REMOVED	TO REMAIN	
A	MONUMENT LIGHTS	120	STACKON	2	WIRES, CONDUIT AND CIRCUIT	
B	YARD LIGHTS	120	BOLLARD	10	WIRES, CONDUIT AND CIRCUIT	
C	ENTRANCE YARD LIGHTS	120	BOLLARD	4	WIRES, CONDUIT AND CIRCUIT	
D	PARKING AREA LIGHTS	208	POLE	3	WIRES, CONDUIT AND CIRCUIT	
E	CONCRETE POLE LIGHT BASES	N/A	N/A	3	WIRES, CONDUIT AND CIRCUIT	



ELECTRICAL DEMO SITE PLAN  
SCALE: 1/40

**GENERAL DEMOLITION NOTES**

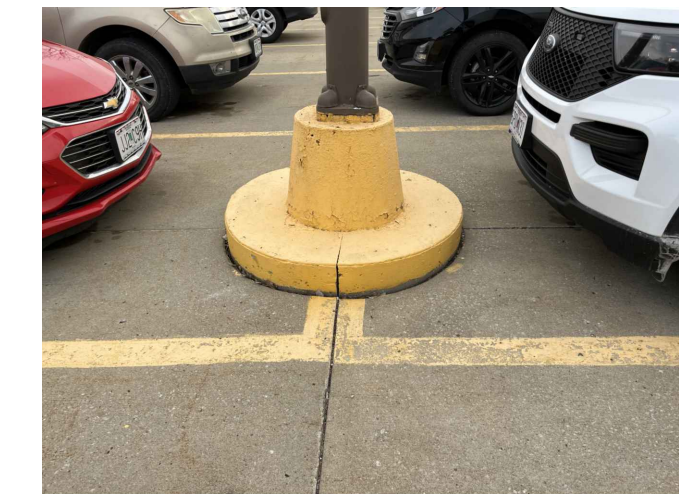
- REFER TO E-200 FOR ELECTRICAL GENERAL NOTES, LEGENDS, AND ABBREVIATIONS.
- ALL LIGHT EXTERIOR LIGHT SHOWN ON THIS PLAN SHEET TO BE REMOVED AND SAFELY RETURN TO THE OWNER.
- REFER TO DEMOLITION QUANTITIES SCHEDULE ON THIS SHEET.

**KEY NOTES**

- REMOVE ONLY LIGHT FIXTURE, EXISTING WIRES AND CIRCUITING TO REMAIN FOR REUSE.
- REMOVE PARKING AREA LIGHT FIXTURE AND POLE POLE BASE. EXISTING WIRES, CONDUITS AND CIRCUITING TO REMAIN FOR REUSE.
- REMOVE EXISTING YARD LIGHT FIXTURE, YARD LIGHT POLE AND YARD LIGHT POLE BASE. RELOCATED ELECTRICAL JUNCTION BOX TO NEW LOCATION. COORDINATE NEW LOCATION WITH GENERAL CONTRACTOR.



**D DEMO - PARKING AREA LIGHT**  
NTS



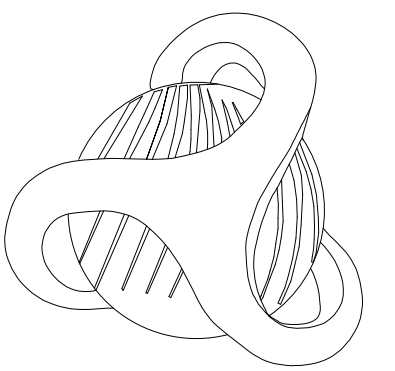
**E DEMO - PARKING AREA LIGHT POLE BASE**  
NTS

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



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OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN AND CONSTRUCTION

MISSOURI STATE HIGHWAY  
PATROL

CRIME LAB - EXTERIOR  
RENOVATIONS  
TROOP H HEADQUARTERS  
BUILDING

ST. JOSEPH, MISSOURI

PROJECT # R-2338-01  
SITE # 6009  
FACILITY # 8136009002 &  
8136009003

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: \_\_\_\_\_

CAD DWG FILE: \_\_\_\_\_  
DRAWN BY: MCC  
CHECKED BY: CKB  
DESIGNED BY: HAK

SHEET TITLE:  
ELECTRICAL  
DEMO PLAN

SHEET NUMBER:

**E-100**

25 OF 35 SHEETS  
03/28/2024

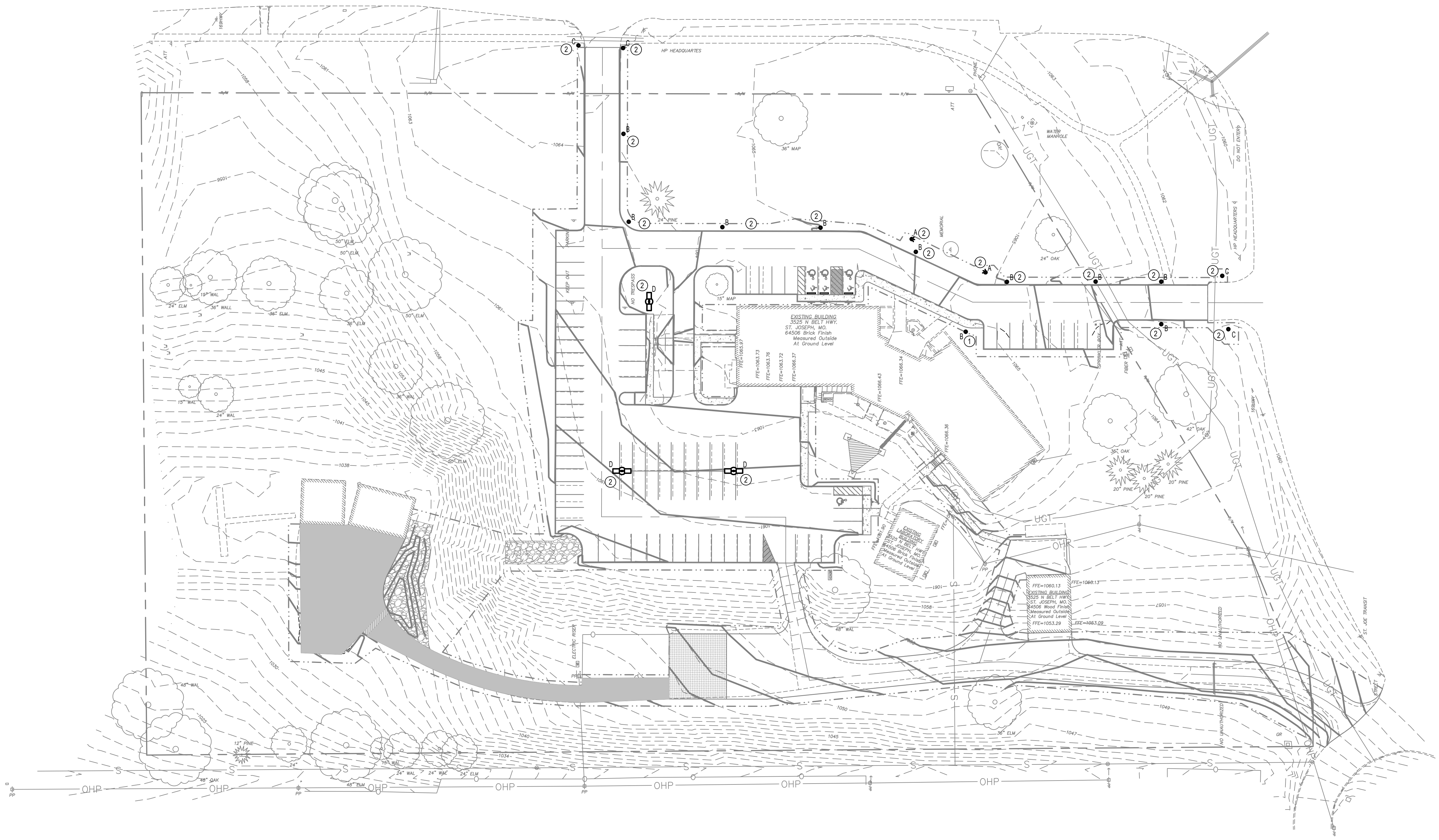
SITE LIGHTING SCHEDULE												
MARK	MANUFACTURER*	MODEL NO.*	TYPE	VOLTS	AMPS	WATTS	LUMENS	CCT (*K)	CRI	LAMPS	MOUNTING	REMARKS
A	LSI	XFLM-VF-LED-28-HO-NW-UNV-BRZ-PC1120	ARCHITECTURAL FLOOD (XFLM)	120		36	3155	4000k	80	LED	STANCHION	
B	LSI	XBVRD-ID-LED-24-400-NW-UE-BRZ-PC1120-45	ARCHITECTURAL BOLLARD (XBVR)	120		38	1224	4000k	70	LED	BOLLARD	
C	WAVE LIGHTING	C8025T-F-L40-C-BZ	ENTRANCE LIGHTING	120		40	4000	4000K	90	LED	POLE POST (7 FT)	
D	COOPER LIGHTING SOLUTIONS	GALN-SMC-940-2-T4FT-HSS-PA-BZ-PR	AREA LIGHTING	208		213	27751	4000K	90	LED	20 FT POLE + 3 FT BASE	
* OR EQUAL												

**GENERAL NOTES**

- REFER TO E-200 FOR GENERAL ELECTRICAL SYMBOLS, LEGENDS AND ABBREVIATIONS.
- REFER TO FIXTURE SCHEDULE ON THIS SHEET.
- REFER TO E-300 FOR ELECTRICAL DETAILS.
- ALL EXISTING WIRING, CONDUITS, AND LOCATIONS TO BE RE-USED. GENERAL CONTRACTOR TO FIELD VERIFY THE CIRCUITS AND CONNECTION FOR CODE COMPLIANCE.

**KEY NOTES**

- NEW LIGHT FIXTURE TYPE F IN NEW LOCATION. COORDINATE WITH GENERAL CONTRACTOR FOR EXACT LOCATION OF NEW FIXTURE INSTALLATION BASE.
- RECONNECT TO EXISTING CIRCUIT.



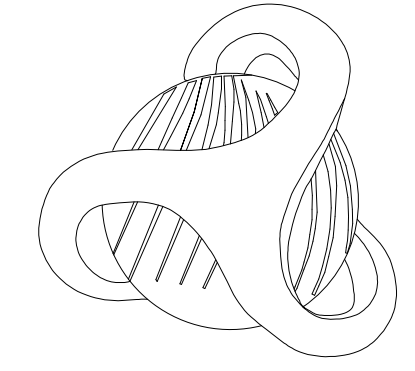
**ELECTRICAL SITE PLAN**  
SCALE: 1/40

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SITE # 6009  
FACILITY # 8136009002 &  
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REVISION: \_\_\_\_\_  
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DATE: \_\_\_\_\_  
ISSUE DATE: \_\_\_\_\_

CAD DWG FILE: \_\_\_\_\_  
DRAWN BY: MCC  
CHECKED BY: CKB  
DESIGNED BY: HAK

SHEET TITLE:  
**ELECTRICAL SITE  
PLAN**

SHEET NUMBER:

**E-200**

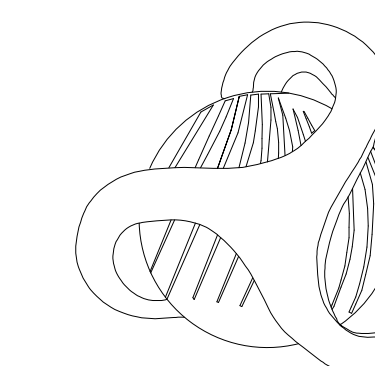
26 OF 35 SHEETS  
03/28/2024





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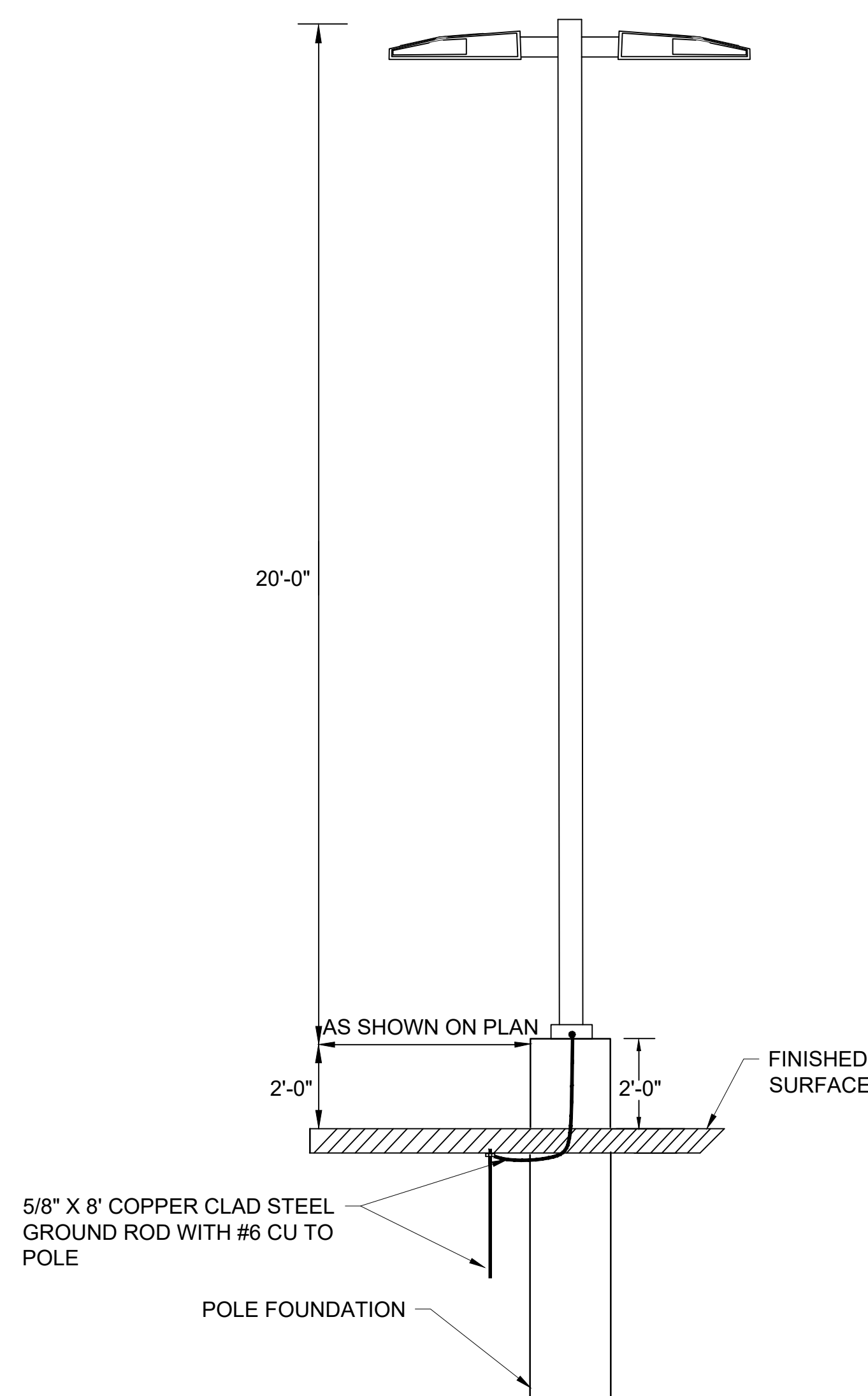
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DRAWN BY: MCC  
CHECKED BY: CKB  
DESIGNED BY: HAK

SHEET TITLE:  
**SUPPLEMENTAL  
POLE DETAILS**

SHEET NUMBER:

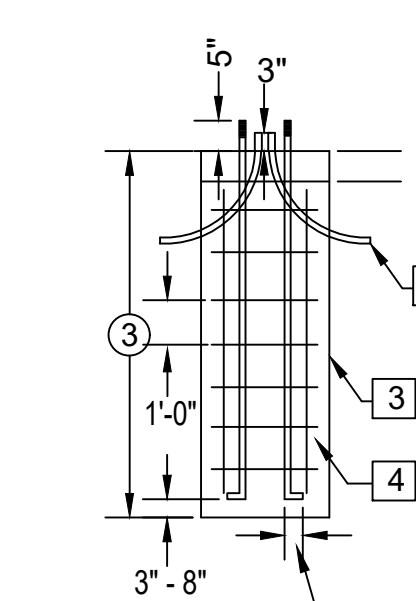
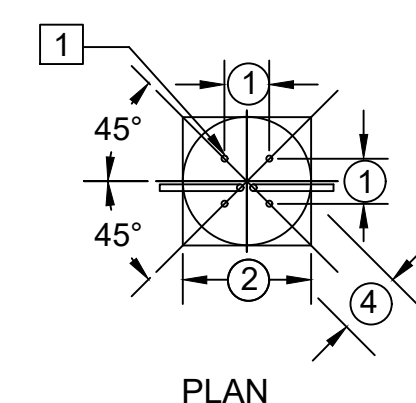
**E-301**

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03/28/2024



**1** TYPE-D POLE DETAIL  
NTS

POLE SPECIFICATIONS	
CATALOG NO.:	P200-APR-G-M00-AB C/W 140(25/40)
QUANTITY:	-
SECTION:	TAPERED ROUND
COLOR:	BZ
FINISH:	MOLD
POLE TOP:	4 3/4"
POLE BUTT:	8.35"
POLE LENGTH:	20' 0"
RACEWAY:	MIN 1 1/8" TO TOP OF POLE
APPROX WEIGHT:	710 LBS.



DIMENSIONS		
NO.	ITEM	DIMENSIONS
①	BOLT SPACING	USE MANUFACTURE TEMPLATE
②	DIAMETER OF FOUNDATION	24"
③	DEPTH OF FOUNDATION	6'-0"
④	BOLT CIRCLE DIAMETER	USE MANUFACTURE TEMPLATE

NOTE: REFER TO THE SHOP DRAWINGS FOR BOLT SPACING.  
CONCRETE SHALL BE PER APWA REQUIREMENTS.

**PARKING LOT LIGHT POLE FOUNDATIONS NOTES:**

- ① 1" DIAMETER ANCHOR BOLTS EXTENDED WITH #6 REBAR AS REQUIRED
- ② EXTEND TO EXISTING CONDUIT. REPLACE CONDUCTORS BETWEEN POLES. PLUG ALL CONDUIT OPENINGS WITH DUXSEAL OR EQUIVALENT BEFORE PLACING CONCRETE & AFTER CABLE INSTALLATION. SEE PLANS FOR NUMBER & DIRECTION OF BENDS.
- ③ FURNISH AND INSTALL CONCRETE PER APWA REQUIREMENTS (MINIMUM OF 3000 PSI).
- ④ FURNISH AND INSTALL (7) #3 REBAR WITH 1' SPACING BETWEEN REBAR.

**2** TYPE-D POLE FOUNDATION DETAIL  
NTS

GENERAL NOTES

I. DESIGN CRITERIA

A. GENERAL BUILDING CODE
1. THE CONSTRUCTION DOCUMENTS ARE BASED ON THE REQUIREMENTS OF THE INTERNATIONAL EXISTING BUILDING CODE 2018. DOCUMENTS ARE BASED UPON REPAIRS OF THE EXISTING STRUCTURE.

II. SELECTIVE DEMOLITION

A. RESPONSIBILITY OF THE CONTRACTOR FOR STABILITY OF THE STRUCTURE DURING DECONSTRUCTION / DEMOLITION
1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL REQUIRED BRACING DURING DEMOLITION TO MAINTAIN THE STABILITY AND SAFETY OF ALL STRUCTURAL ELEMENTS DURING THE DEMOLITION PROCESS.
B. DEFINITIONS
1. REMOVE: DETACH ITEMS FROM EXISTING CONSTRUCTION AND LEGALLY DISPOSE OF THEM OFF-SITE, UNLESS INDICATED TO BE REMOVED AND SALVAGED OR REMOVED AND REINSTALLED.
C. MATERIAL OWNERSHIP
1. EXCEPT FOR ITEMS OR MATERIALS INDICATED TO BE REUSED, SALVAGED, OR OTHERWISE INDICATED TO REMAIN OWNER'S PROPERTY, DEMOLISHED MATERIALS SHALL BECOME CONTRACTOR'S PROPERTY AND SHALL BE REMOVED FROM PROJECT SITE.
D. QUALITY ASSURANCE
1. DEMOLITION FIRM QUALIFICATIONS: AN EXPERIENCED FIRM THAT HAS SPECIALIZED IN DEMOLITION WORK SIMILAR IN MATERIAL AND EXTENT TO THAT INDICATED FOR THIS PROJECT.
E. PROJECT CONDITIONS
1. CONDUCT SELECTIVE DEMOLITION SO OWNER'S OPERATIONS WILL NOT BE DISRUPTED. PROVIDE NOT LESS THAN 72-HOUR NOTICE TO OWNER OF ACTIVITIES THAT WILL AFFECT OWNER'S OPERATIONS.

7. PROTECT ADJACENT PAVING (ASPHALT OR CEMENT ROADWAYS, SEWERS, ETC.), AND DRAINAGE DITCHES AS NEEDED.
8. ALL AREAS OUTSIDE OF DEMOLITION SCOPE ARE TO BE PROTECTED FROM DAMAGE BY CONTRACTOR. RESTORE AREAS SUBJECT TO INCIDENTAL DAMAGE TO THEIR PRE-DEMOLITION CONDITION.
F. UTILITY SERVICES
1. REFER TO DIVISION 01 SECTIONS REGARDING REQUIREMENTS FOR MAINTAINING EXISTING UTILITIES IN SERVICE AND FOR INTERRUPTIONS OF EXISTING UTILITIES.
G. PREPARATION
1. DANGEROUS MATERIALS: DRAIN, PURGE, OR OTHERWISE REMOVE, COLLECT, AND DISPOSE OF CHEMICALS, GASES, EXPLOSIVES, ACIDS, FLAMMABLES, OR OTHER DANGEROUS MATERIALS BEFORE PROCEEDING WITH SELECTIVE DEMOLITION OPERATIONS.
H. POLLUTION CONTROLS
1. REFER TO DIVISION 01 SPECIFICATION SECTIONS FOR REQUIREMENTS ON DUST CONTROL, DISPOSAL, AND CLEANING OF DEMOLISHED MATERIAL.
I. EXECUTION OF SELECTIVE DEMOLITION
1. GENERAL: DEMOLISH EXISTING CONSTRUCTION AS INDICATED. USE METHODS REQUIRED TO COMPLETE THE WORK WITHIN LIMITATIONS OF GOVERNING REGULATIONS AND AS FOLLOWS:
2. EXISTING FACILITIES: COMPLY WITH OWNER'S REQUIREMENTS FOR USING AND PROTECTING OTHER BUILDING FACILITIES DURING SELECTIVE DEMOLITION OPERATIONS.
J. DISPOSAL OF DEMOLISHED MATERIALS
1. GENERAL: PROMPTLY DISPOSE OF DEMOLISHED MATERIALS. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE.

III. MASONRY

A. SCOPE
1. REFER TO REPAIR DRAWINGS FOR DETAILS AND LOCATION OF MASONRY REPLACEMENT.
B. CLAY MASONRY UNITS
1. FACE BRICK: ASTM C216, GRADE SW, TYPE FBS (NORMAL SIZE AND COLOR VARIATIONS).
2. TEXTURE AND COLOR: PROVIDE BRICK SIMILAR IN COLOR, TEXTURE, AND PHYSICAL PROPERTIES TO MATCH EXISTING.
C. MORTAR
1. USE ONLY PORTLAND CEMENT/LIME, TYPE N, MORTAR CONFORMING TO ASTM C270, PROPORTION SPECIFICATION.

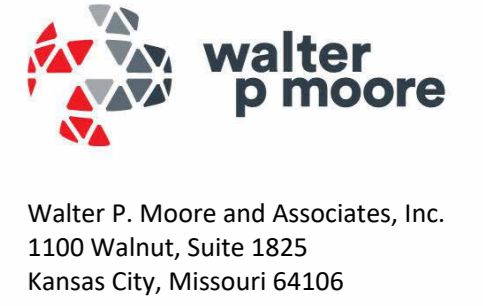
IV. SUBMITTALS

A. SUBMITTAL LIST AND SCHEDULE
1. THE CONTRACTOR SHALL PREPARE A DETAILED LIST AND SCHEDULE OF ALL SUBMITTAL ITEMS TO BE SENT TO THE STRUCTURAL ENGINEER PRIOR TO THE START OF CONSTRUCTION.
B. SUBMITTALS TO BE PROVIDED TO STRUCTURAL ENGINEER
1. PRODUCT SUBMITTALS: IN ADDITION TO THE SUBMITTALS REQUIRED BY THE PROJECT SPECIFICATIONS, THE FOLLOWING SUBMITTALS SHALL BE PROVIDED:
C. REPRODUCTION
1. THE USE OF ELECTRONIC FILES OR REPRODUCTIONS OF THESE CONTRACT DOCUMENTS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES THEIR ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT, AND OBLIGATES THEMSELVES TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREON.

V. MISCELLANEOUS

A. CONTRACT DOCUMENTS
1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL CONTRACT DOCUMENTS AND LATEST ADDENDA AND TO SUBMIT SUCH DOCUMENTS TO ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS, FABRICATION OF ANY STRUCTURAL MEMBERS, AND ERECTION IN THE FIELD.
2. CONTRACTOR SHALL FULLY AND PROPERLY IMPLEMENT THE ENGINEERING CONTROLS, WORK PRACTICES, AND RESPIRATORY PROTECTION AGAINST TOXIC AND HAZARDOUS SUBSTANCES INCLUDING RESPIRABLE CRYSTALLINE SILICA ACCORDING TO OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, OSHA 1926.1153.
3. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE REPAIRED STRUCTURE, AND, EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION.
4. IF CERTAIN FEATURES ARE NOT FULLY SHOWN OR SPECIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS SHOWN OR SPECIFIED IN SIMILAR CONDITIONS.

B. CONFLICTS IN STRUCTURAL REQUIREMENTS
1. WHERE CONFLICT EXISTS AMONG THE VARIOUS PARTS OF THE REPAIR CONTRACT DOCUMENTS, REPAIR DRAWINGS, GENERAL NOTES, AND SPECIFICATIONS, THE STRICTEST REQUIREMENTS, AS INDICATED BY THE ENGINEER, SHALL GOVERN.
C. EXISTING CONDITIONS
1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF THE EXISTING BUILDING AT THE JOB SITE AND REPORT ANY DISCREPANCIES FROM ASSUMED CONDITIONS SHOWN ON THE DRAWINGS TO THE ENGINEER PRIOR TO THE FABRICATION AND ERECTION OF ANY MEMBERS.
2. EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS WAS OBTAINED FROM EXISTING CONSTRUCTION DOCUMENTS AND LIMITED SITE OBSERVATION.
3. DEMOLITION, CUTTING, DRILLING, ETC. OF EXISTING WORK SHALL BE PERFORMED WITH GREAT CARE SO AS NOT TO JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE EXISTING BUILDING.
4. THE CONTRACTOR SHALL PERFORM A SURVEY TO LOCATE ALL EXISTING UTILITIES (INCLUDING UNDERGROUND UTILITIES) PRIOR TO THE START OF CONSTRUCTION AND TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN IN SERVICE.
5. THE CONTRACTOR SHALL PROVIDE DUST, ODOR, AND NOISE PROTECTION, AND SAFETY MEASURES AS NECESSARY FOR THE DURATION OF REPAIRS.
6. THE CONTRACTOR SHALL PERFORM A PRE-CONSTRUCTION CONDITION SURVEY TO DOCUMENT SITE CONDITIONS PRIOR TO START OF WORK.
7. THE CONTRACTOR SHALL REPAIR ALL DAMAGE CAUSED DURING CONSTRUCTION WITH SIMILAR MATERIALS AND WORKMANSHIP TO RESTORE CONDITIONS TO LEVELS ACCEPTABLE TO THE OWNER.
D. RESPONSIBILITY OF THE CONTRACTOR FOR CONSTRUCTION LOADS
1. THE REPAIRS HAVE BEEN DESIGNED FOR THE LOADS IDENTIFIED WITHIN THESE DRAWINGS THAT ARE ANTICIPATED TO BE APPLIED TO THE STRUCTURE WORK IS COMPLETED.
E. CONTRACTOR SUBSTITUTIONS
1. ANY MATERIALS OR PRODUCTS SUBMITTED FOR APPROVAL THAT ARE DIFFERENT FROM THE MATERIAL OR PRODUCTS SPECIFIED IN THE STRUCTURAL CONTRACT DOCUMENTS WILL BE CONSIDERED FOR APPROVAL ONLY IF THE FOLLOWING CRITERIA ARE SATISFIED:
A. A COST SAVINGS TO THE OWNER IS DOCUMENTED AND SUBMITTED WITH THE REQUEST.
B. THE MATERIAL OR PRODUCT HAS BEEN APPROVED BY THE INTERNATIONAL CODE COUNCIL (ICC) AND THE ICC REPORT IS SUBMITTED WITH THE REQUEST.
1) THE ICC ESR THAT IS SUBMITTED MUST REFERENCE THE BUILDING CODE UNDER WHICH THE PROJECT IS PERMITTED.
2) ICC REPORTS THAT HAVE BEEN DISCONTINUED AT THE TIME OF PRODUCT INSTALLATION WILL NOT BE ACCEPTED.
2. SUBMITTALS NOT SATISFYING THE ABOVE CRITERIA WILL NOT BE CONSIDERED.



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PATROL

CRIME LAB - EXTERIOR
RENOVATIONS
TROOP H HEADQUARTERS
BUILDING

ST. JOSEPH, MISSOURI

PROJECT # R-2338-01
SITE # 6009
FACILITY # 8136009002 &
8136009003

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 03/28/2024

CAD DWG FILE:
DRAWN BY: AZ
CHECKED BY: HW
DESIGNED BY: DF

SHEET TITLE:

GENERAL
NOTES

SHEET NUMBER:

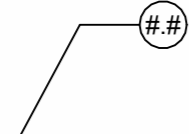
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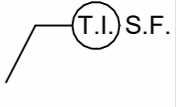
# GENERAL NOTES

- F. THE STRUCTURAL ENGINEER'S ROLE DURING CONSTRUCTION
1. THE ENGINEER SHALL NOT HAVE CONTROL NOR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK FOR THE ACTS OR OMISSION OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
  2. PERIODIC SITE OBSERVATION BY FIELD REPRESENTATIVES OF WALTER P. MOORE AND ASSOCIATES IS SOLELY FOR THE PURPOSE OF BECOMING GENERALLY FAMILIAR WITH THE PROGRESS AND QUALITY OF THE WORK COMPLETED AND DETERMINING, IN GENERAL, IF THE WORK OBSERVED IS BEING PERFORMED IN A MANNER INDICATING THAT THE WORK, WHEN FULLY COMPLETED, WILL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION SHOULD NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OR QUANTITY OF THE WORK, BUT RATHER PERIODIC IN AN EFFORT TO GUARD THE OWNER AGAINST DEFECTS OR DEFICIENCIES IN THE WORK OF THE CONTRACTOR.
- G. MAINTENANCE STATEMENT
1. ALL STRUCTURES REQUIRE PERIODIC MAINTENANCE TO EXTEND LIFESPAN AND TO ENSURE STRUCTURAL INTEGRITY FROM EXPOSURE TO THE ENVIRONMENT. A PLANNED PROGRAM OF MAINTENANCE SHALL BE ESTABLISHED BY THE BUILDING OWNER. THIS PROGRAM SHALL INCLUDE ITEMS SUCH AS BUT NOT LIMITED TO PAINTING OF STRUCTURAL STEEL, PROTECTIVE COATING FOR CONCRETE, REPLACEMENT OF FAILED SEALANTS, CAULKED JOINTS, EXPANSION JOINTS, CONTROL JOINTS, REPAIR OF SPALLS AND CRACKS IN CONCRETE, AND PRESSURE WASHING OF EXPOSED STRUCTURAL ELEMENTS EXPOSED TO A SALT ENVIRONMENT OR OTHER HARSH CHEMICALS.
- H. CONSTRUCTION SAFEGUARDS
1. CONSTRUCTION SAFEGUARDS GOVERNING SAFETY DURING CONSTRUCTION, THE PROTECTION OF ADJACENT PUBLIC AND PRIVATE PROPERTIES, PROTECTION OF BUILDING OCCUPANTS, AND PROTECTION OF PEOPLE ADJACENT TO THE CONSTRUCTION AREA SHALL BE PER REQUIREMENTS OF THE BUILDING CODE AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION OVER THE LOCATION OF THE WORK.

**VI. DRAWING INTERPRETATION**

- A. DRAWING VIEWS LABELED AS "TYPICAL"
1. PARTIAL PLANS, ELEVATIONS, SECTIONS, DETAILS, OR SCHEDULES LABELED WITH "TYPICAL" AT THE BEGINNING OF THEIR TITLE SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY SHOWN. THE APPLICABILITY OF THE CONTENT OF THESE VIEWS TO LOCATIONS ON THE PLAN CAN BE DETERMINED FROM THE TITLE OF THE VIEWS. SUCH VIEWS SHALL APPLY WHETHER OR NOT THEY ARE KEYED IN AT EACH LOCATION. DECISIONS REGARDING APPLICABILITY OF THESE "TYPICAL" VIEWS SHALL BE DETERMINED BY THE STRUCTURAL ENGINEER.
- B. STRUCTURAL ABBREVIATIONS, SYMBOLS, AND NOTATIONS
- |     |                   |
|-----|-------------------|
| LF  | LEFT SIDE OF FIN  |
| RF  | RIGHT SIDE OF FIN |
| NTS | NOT TO SCALE      |
| SF  | SQUARE FOOTAGE    |
| TI  | TASK ITEM         |
- C. STRUCTURAL SYMBOLS
1. TASK ITEMS ARE INDICATED BY: 

TASK ITEMS (T.I.)			LEGEND
NO.	DESCRIPTION	QUANTITIES	
1.0	BRICK WATER REPELLENT	200	
2.0	CLEAN AND COAT CORRODED STEEL	502	
3.0	BRICK REPOINTING	5	
4.0	BRICK REPLACEMENT	60	



**STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR**



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**MISSOURI STATE HIGHWAY  
PATROL**

CRIME LAB - EXTERIOR  
RENOVATIONS  
TROOP H HEADQUARTERS  
BUILDING

ST. JOSEPH, MISSOURI

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SITE # 6009  
FACILITY # 8136009002 &  
8136009003

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**S-002**

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DESIGNED BY: DF

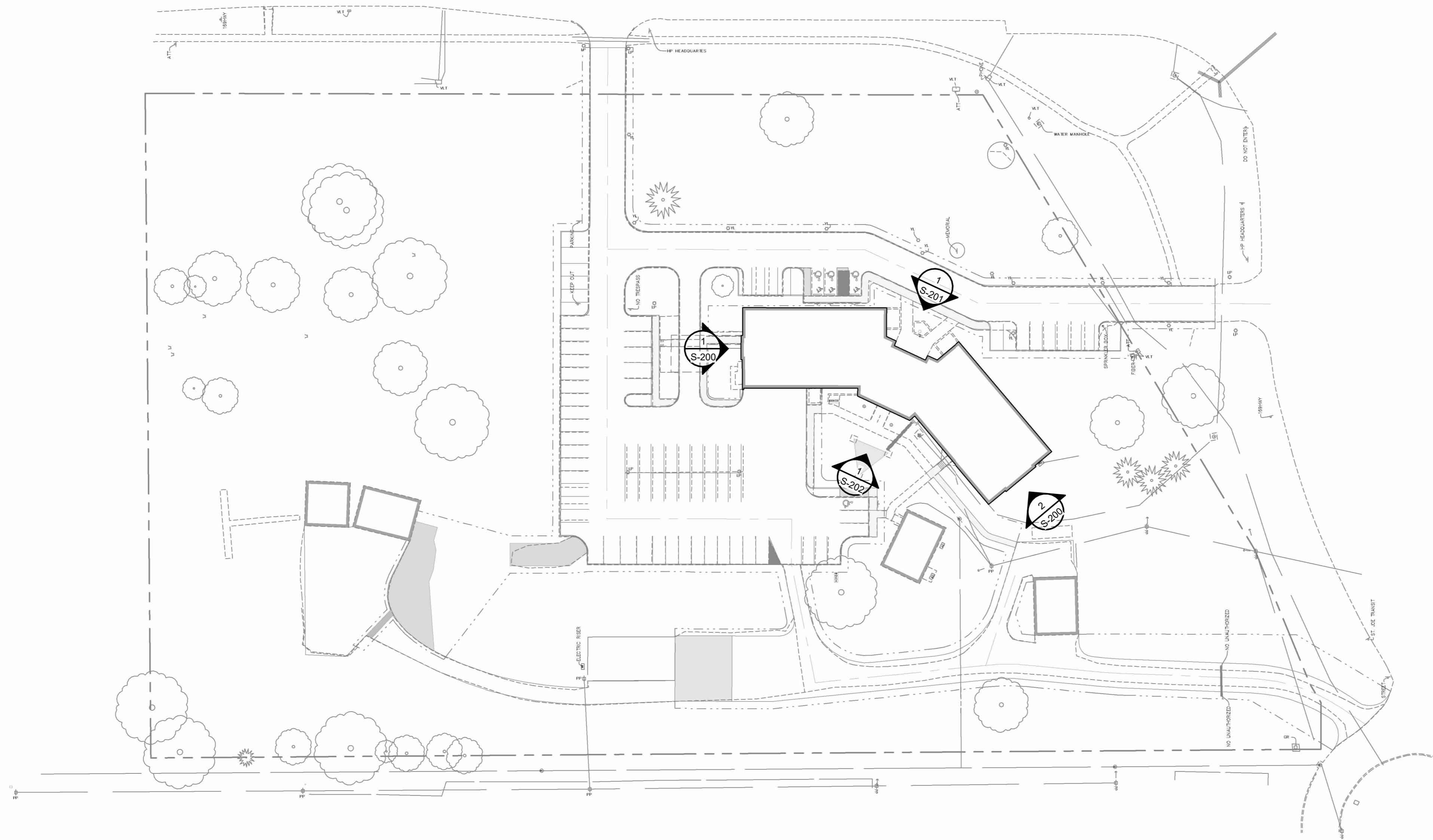
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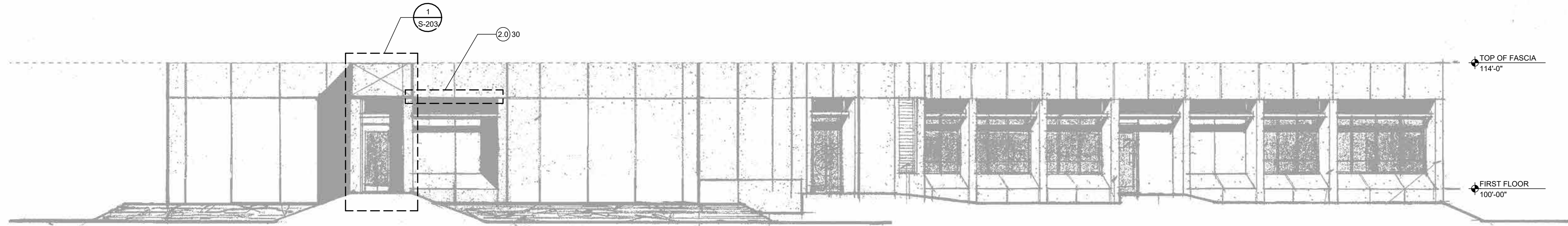
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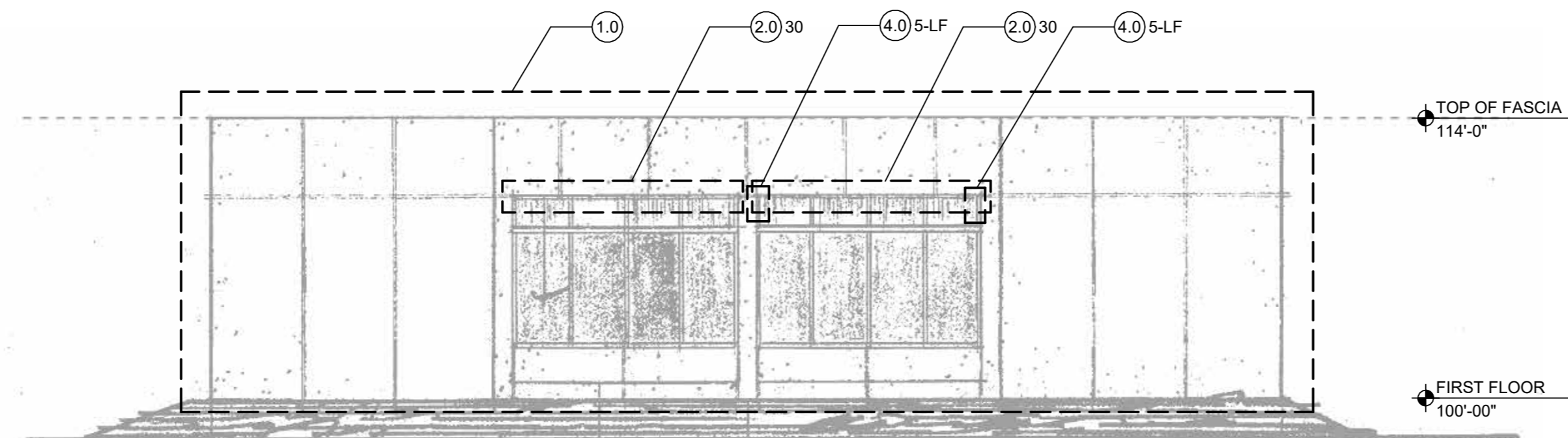
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TASK ITEMS (T.I.)			LEGEND
NO.	DESCRIPTION	QUANTITIES	(T.I.) S.F.
1.0	BRICK WATER REPELLENT	200	
2.0	CLEAN AND COAT CORRODED STEEL	502	
3.0	BRICK REPOINTING	5	
4.0	BRICK REPLACEMENT	60	



**1** SOUTH ELEVATION  
NO SCALE



**2** NORTHEAST ELEVATION  
NO SCALE

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CAD DWG FILE: \_\_\_\_\_  
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CHECKED BY: HW  
DESIGNED BY: DF

SHEET TITLE:  
**SOUTH AND  
NORTHEAST  
ELEVATIONS**

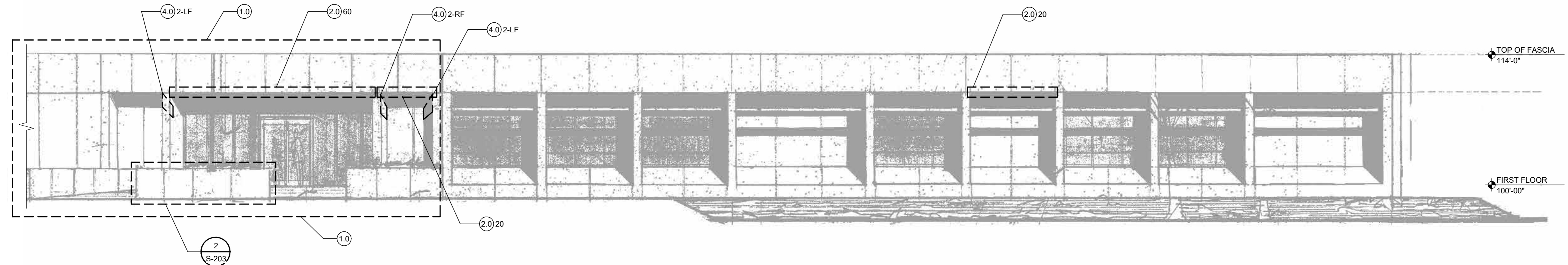
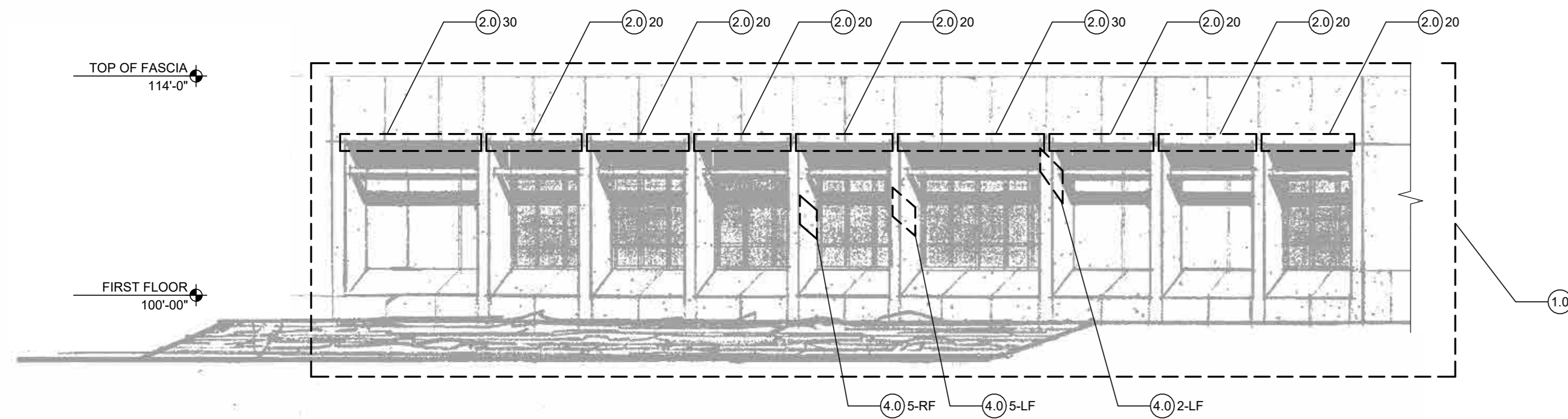
SHEET NUMBER:

**S-200**

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03/28/2024



TASK ITEMS (T.I.)			LEGEND
NO.	DESCRIPTION	QUANTITIES	
1.0	BRICK WATER REPELLENT	200	① S.F.
2.0	CLEAN AND COAT CORRODED STEEL	502	
3.0	BRICK REPOINTING	5	
4.0	BRICK REPLACEMENT	60	



① WEST ELEVATION  
NO SCALE

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ISSUE DATE: 03/28/2024

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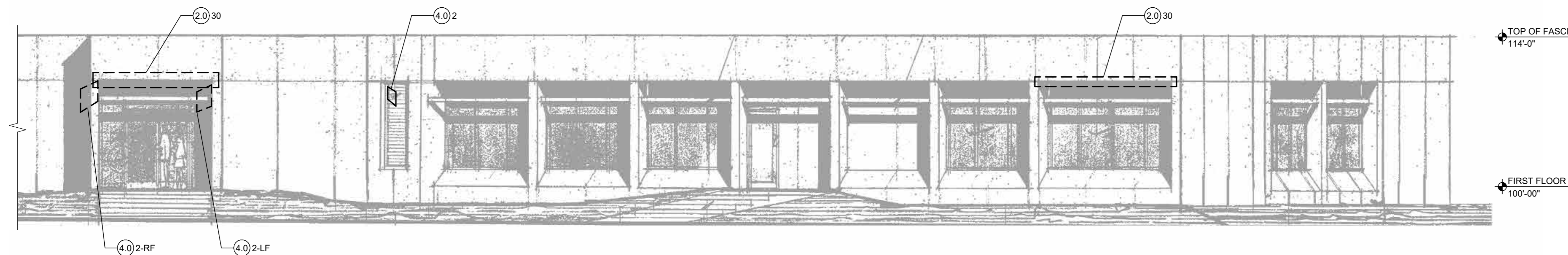
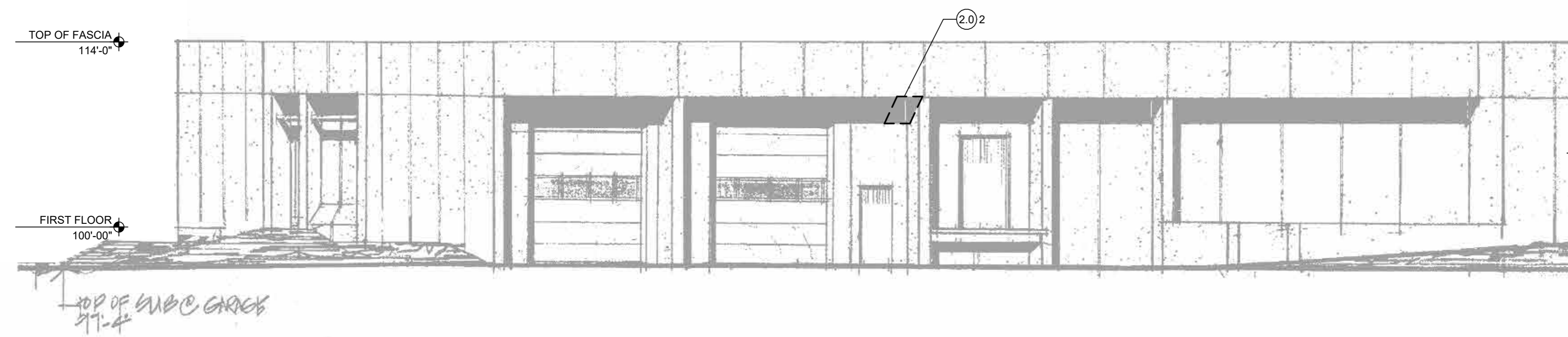
WEST  
ELEVATION

SHEET NUMBER:

S-201

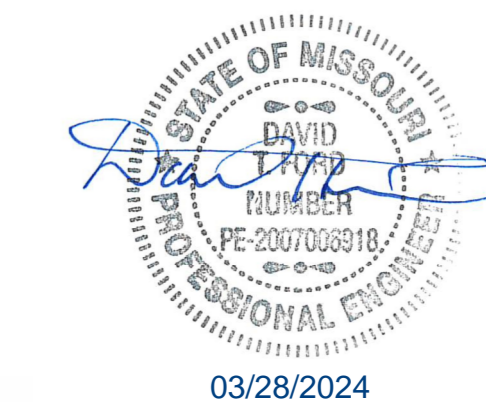
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TASK ITEMS (T.I.)			LEGEND
NO.	DESCRIPTION	QUANTITIES	
1.0	BRICK WATER REPELLENT	200	
2.0	CLEAN AND COAT CORRODED STEEL	502	
3.0	BRICK REPOINTING	5	
4.0	BRICK REPLACEMENT	60	



1 EAST ELEVATION  
NO SCALE

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SHEET TITLE:

EAST  
ELEVATION

SHEET NUMBER:

S-202

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03/28/2024

TASK ITEMS (T.I.)			LEGEND
NO.	DESCRIPTION	QUANTITIES	(T.I.) S.F.
1.0	BRICK WATER REPELLENT	200	
2.0	CLEAN AND COAT CORRODED STEEL	502	
3.0	BRICK REPOINTING	5	
4.0	BRICK REPLACEMENT	60	



20 (4.0)

**2** PLANTER WALL  
NO SCALE



NOTE 1 (3.0)

(3.0) NOTE 1

NOTES:  
1. REMOVE TOP COURSE OF BRICK AT FULL PERIMETER OF COLUMN. CUT THE BRICK IF UNDAMAGED AND REINSTALL LEAVING A 1/2 INCH GAP UNDER THE STEEL.

**1** PORTE-COCHÈRE  
NO SCALE

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CAD DWG FILE: \_\_\_\_\_  
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SHEET TITLE:  
**PORTE-COCHÈRE  
AND PLANTER  
WALL**

SHEET NUMBER:

**S-203**

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03/28/2024

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