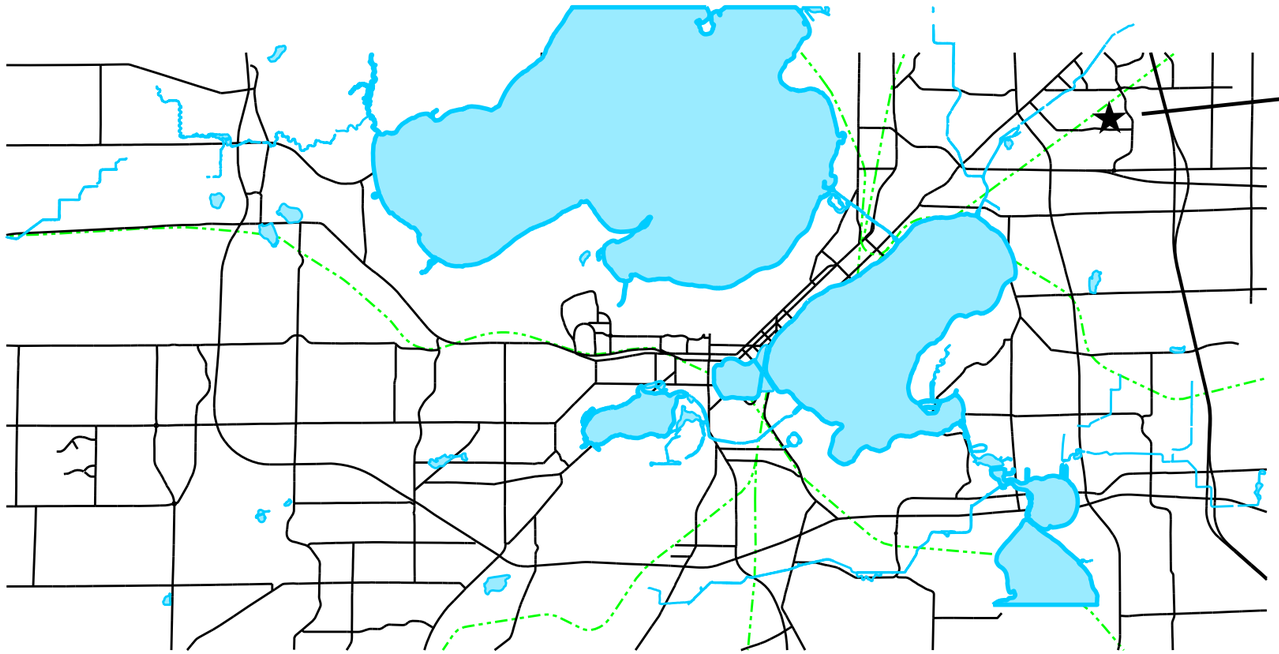
MADISON, WISCONSIN

CITY OF MADISON

ENGINEERING DIVISION
DEPARTMENT OF PUBLIC WORKS
PLAN OF PROPOSED IMPROVEMENT

SYCAMORE TRUCK SCALE

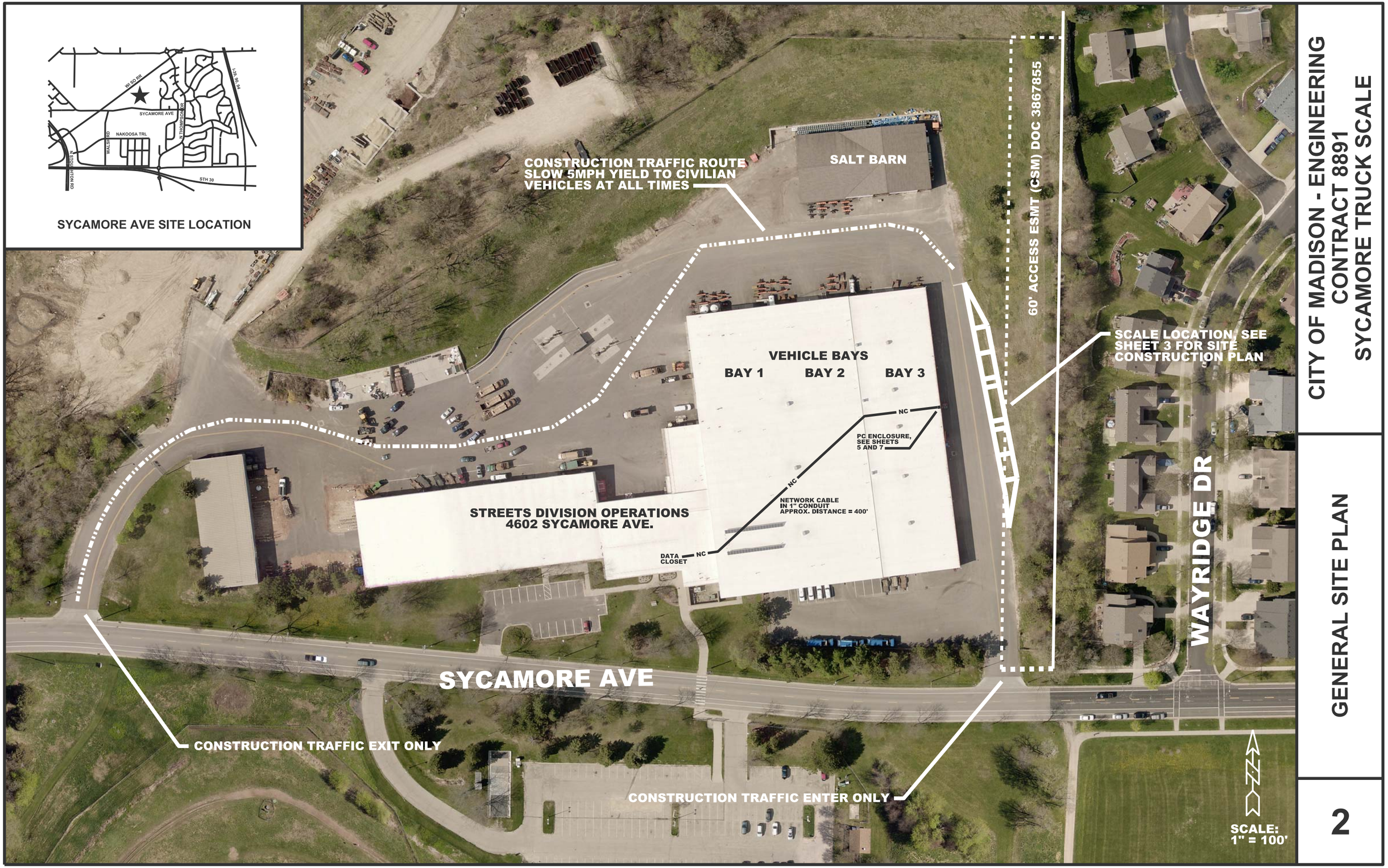
PROJECT NO. 11021
CONTRACT NO. 8891



SHEET INDEX

PUBLIC WORKS IMPROVEMENT PROJECT APPROVED BY THE COMMON COUNCIL OF MADISON WISCONSIN RES: FILE ID: 60467 DATE: June 2, 2020	PUBLIC WORKS IMPROVEMENT DESIGN APPROVED BY _____ CITY ENGINEER _____ DATE

BID SET JUNE 2020

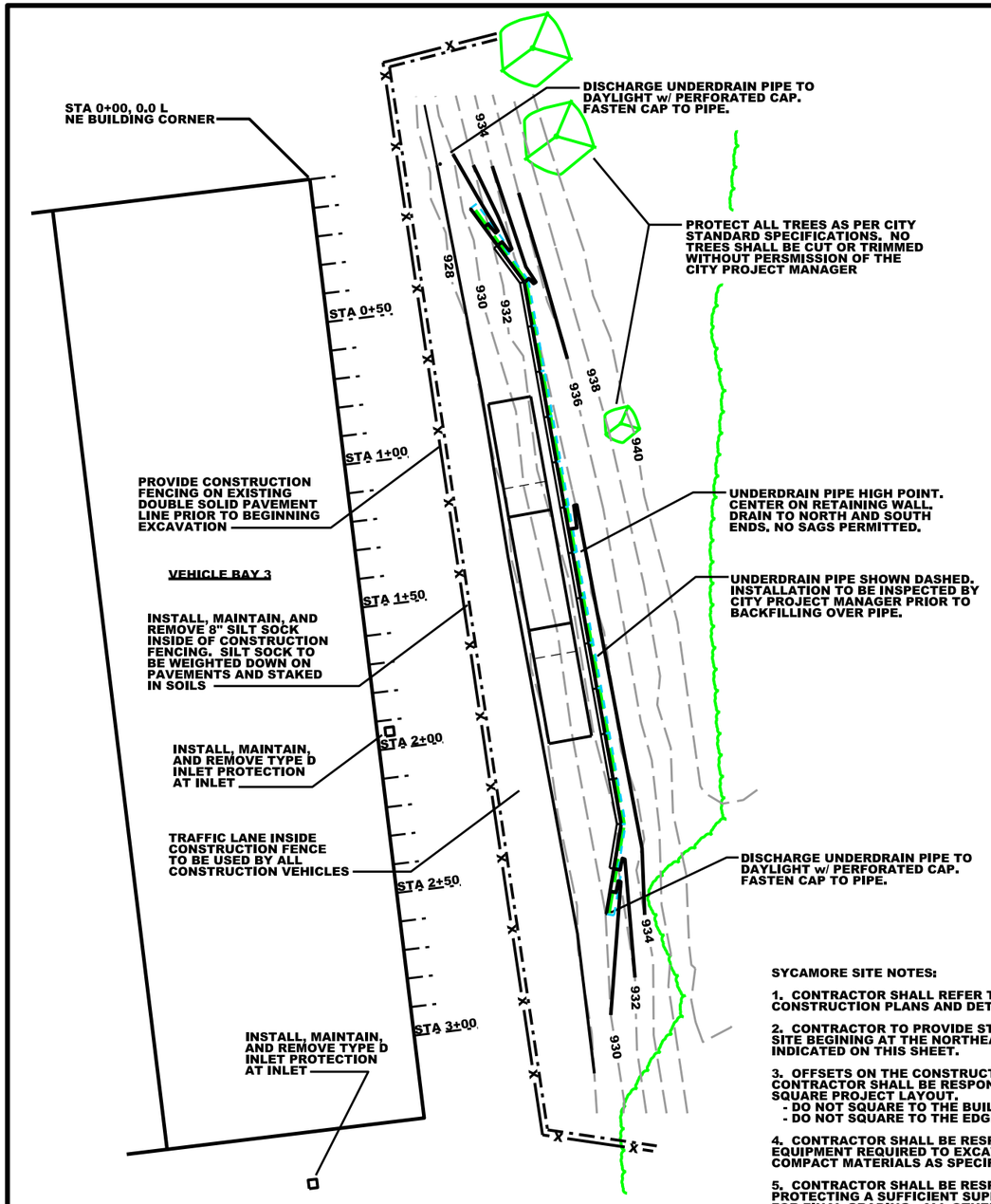


CITY OF MADISON - ENGINEERING
CONTRACT 8891
SYCAMORE TRUCK SCALE

GENERAL SITE PLAN

2

BID SET JUNE 13, 2019



1. EROSION CONTROL & GRADING PLAN

SYCAMORE SITE NOTES:

1. CONTRACTOR SHALL REFER TO OTHER SHEETSFOR FOR CONSTRUCTION PLANS AND DETAILS.

2. CONTRACTOR TO PROVIDE STATIONING FOR THE SYCAMORE SITE BEGINING AT THE NORTHEAST BUILDING CORNER AS INDICATED ON THIS SHEET.

3. OFFSETS ON THE CONSTRUCTION PLAN ARE APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR A STRAIGHT AND SQUARE PROJECT LAYOUT.
   - DO NOT SQUARE TO THE BUILDING.
   - DO NOT SQUARE TO THE EDGE OF ASPHALT.

4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LABOR AND EQUIPMENT REQUIRED TO EXCAVATE, HAUL, PLACE AND COMPACT MATERIALS AS SPECIFIED BY THE PLANS AND DETAILS.

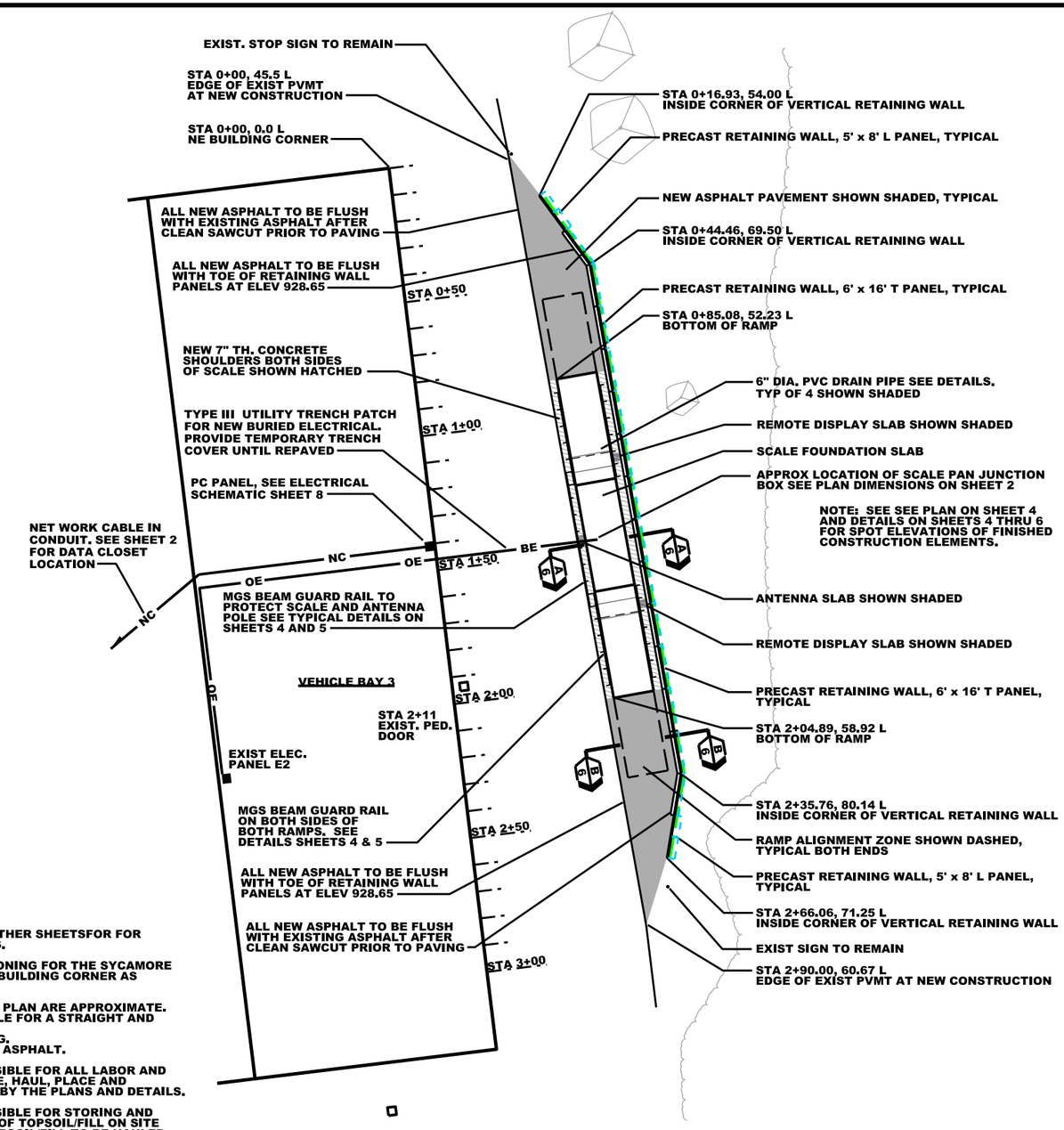
5. CONTRACTOR SHALL BE RESPONSIBLE FOR STORING AND PROTECTING A SUFFICIENT SUPPLY OF TOPSOIL/FILL ON SITE FOR FINAL GRADING. ALL OTHER TOPSOIL/FILL TO BE HAULED OFF SITE BY CONTRACTOR. COORDINATE STORAGE LOCATION WITH OWNER AT LEAST 3 WORKING DAYS BEFORE BEGINNING EXCAVATION.

6. ALL MATERIALS REMOVED FROM TH EPROJECT SITE SHALL BE DISPOSED OF IN A LEGAL MANNER ACCORDING TO APPLICABLE CODES.

7. CONTRACTOR SHALL BE RESPONSIBLE FOR BASE PREPARATION, PLACEMENT, AND BACKFILLING RETAINING WALLS ACCORDING TO ALL DETAILS.

8. SCALE FOUNDATION SLAB SHALL BE LEVEL IN ALL DIRECTIONS AT THE ELEVATION SPECIFIED.

9. CONTRACTOR SHALL REMOVE ALL INLET PROTECTION AT THE END OF CONSTRUCTION.



2. CONSTRUCTION PLAN

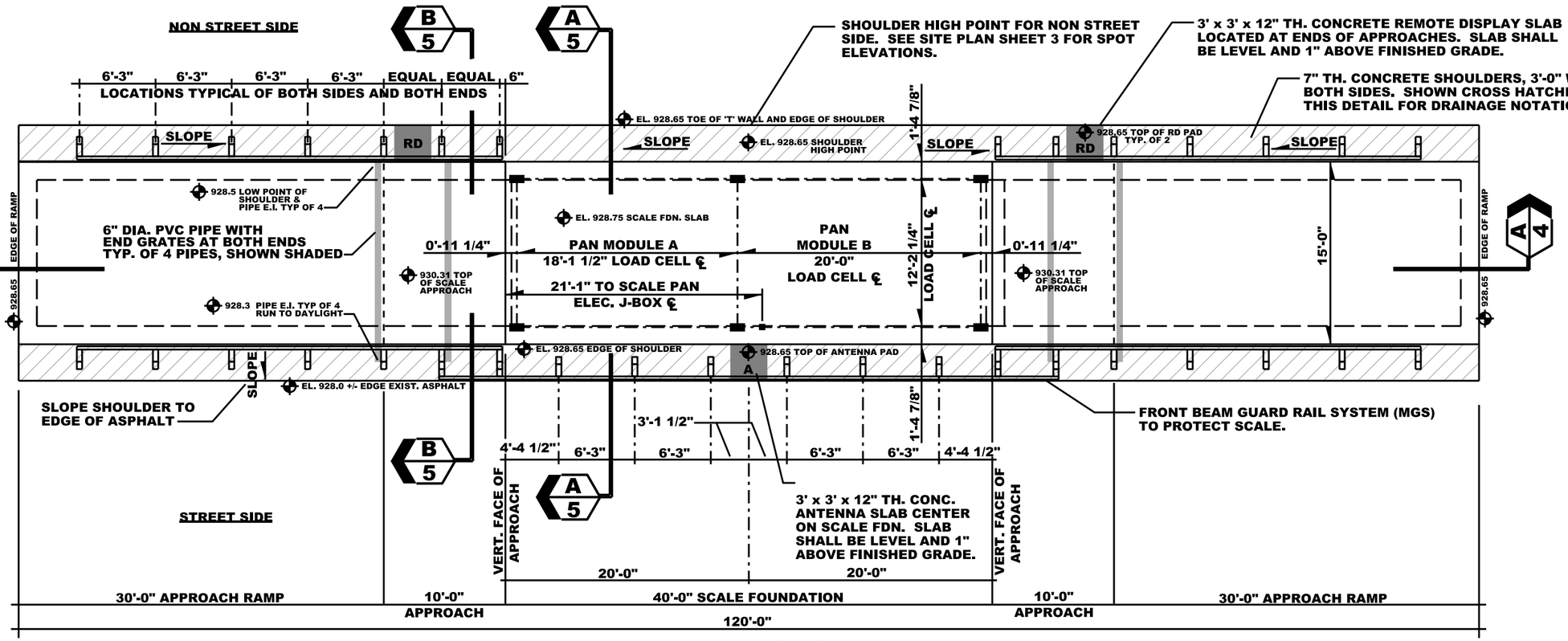
SCALE:
1" = 50'

CITY OF MADISON - ENGINEERING
CONTRACT 8891
SYCAMORE TRUCK SCALE

EROSION CONTROL / GRADING AND CONSTRUCTION SITE PLANS

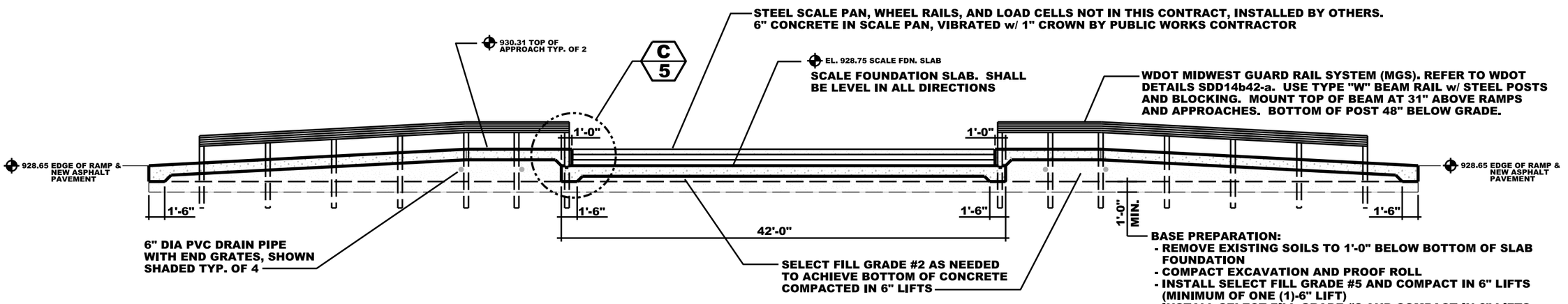
3

BID SET JUNE 2020



NOTE: ANTENNA SIDE IS "STREET SIDE"

PLAN VIEW - FOUNDATION SLAB AND VEHICLE APPROACHES



SELECT FILL NOTE FOR ALL DETAILS, PER CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS:

1. SELECT FILL GRADATION # 2 SHALL BE 1-1/4" UNWASHED CRUSHED STONE
2. SELECT FILL GRADATION #5 SHALL BE BREAKER RUN BASE

A-A/4 SECTION THRU FDN SLAB AND APPROACHES

BID SET JUNE 2020

CITY OF MADISON - ENGINEERING
CONTRACT 8891
SYCAMORE TRUCK SCALE

DETAILED PLAN AND SECTION

4

GENERAL CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SITE PREPARATION; INSTALLATION OF ALL PAVEMENTS, RETAINING WALLS, MGS GUARD RAILS; ELECTRICAL ROUGH-IN; SITE CLEANUP; AND OTHER MISCELLANEOUS WORK ASSOCIATED WITH COMPLETING THE INTENT OF THIS CONTRACT.

2. THE CONTRACTOR SHALL REVIEW BID ITEM 20101 EXCAVATION CUT IN THE SPECIAL PROVISIONS FOR INFORMATION REGARDING UNDERCUT.

3. THE SCALE INSTALLER SHALL BE RESPONSIBLE FOR THE DELIVERY AND INSTALLATION OF ALL SCALE EQUIPMENT AFTER THE CONTRACTOR HAS COMPLETED HIS/HER PORTION OF THE SITE PREPARATION.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND POURING THE SCALE PAN CONCRETE AFTER THE INSTALLATION OF ALL SCALE EQUIPMENT IS COMPLETED. THE CONTRACTOR SHALL VERIFY ALL CONCRETE AND INSTALLATION REQUIREMENTS WITH THE SCALE INSTALLER PRIOR TO ORDERING THE CONCRETE.

5. ALL CONCRETE SHALL BE fc = 3000 psi @ 28 DAYS STRENGTH. THE CONTRACTOR SHALL SCHEDULE ALL SLUMP AND CYLINDER TESTING WITH THE SOILS ENGINEER UNDER CONTRACT WITH CITY ENGINEERING, NO ALTERNATES WILL BE ACCEPTED.

6. ALL CONCRETE SHALL HAVE A BROOM SWEPT FINISH.

7. SEE REBAR SCHEDULE ON SHEET 7 FOR SPECIFICATIONS ON REINFORCING STEEL. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING QUANTITIES AND LENGTHS REQUIRED INCLUDING OVERLAPS.

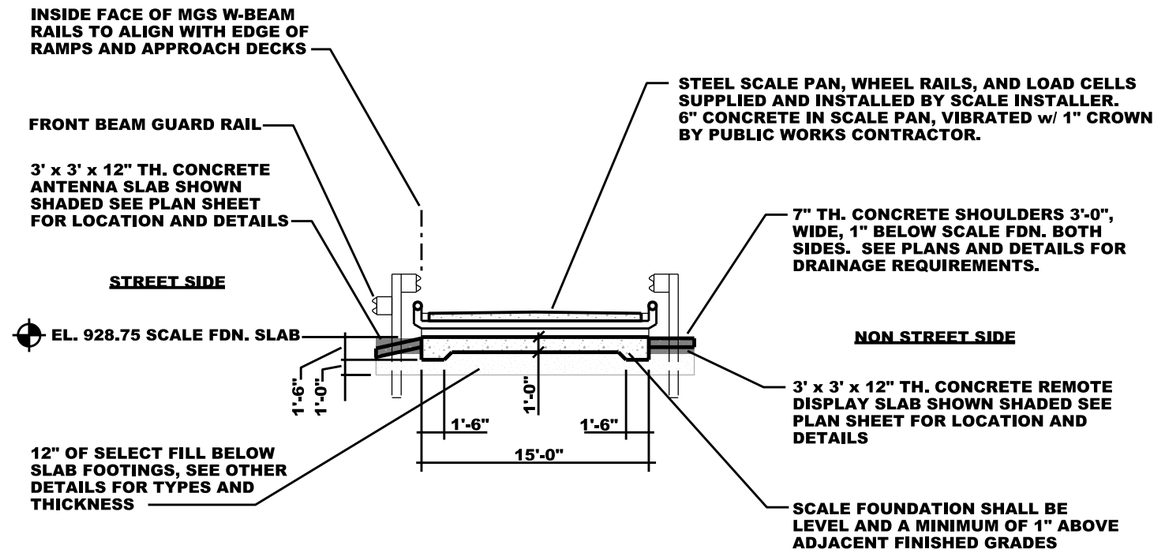
8. THE CITY PROJECT MANAGER SHALL REVIEW ALL REBAR PLACEMENT PRIOR TO EACH CONCRETE POUR. THE CONTRACTOR SHALL PROVIDE THE CPM WITH A 2 WORKING DAY NOTICE BEFORE NEEDING REVIEW.

9. THE CONTRACTOR SHALL COMPACT ALL GRANULAR FILL WITH A VIBRATORY TYPE DEVICE TO 95% MAXIMUM DRY DENSITY. COMPACTION WITH A BACKHOE BUCKET (RAMMING) SHALL NOT BE PERMITTED. THE CONTRACTOR SHALL SCHEDULE ALL COMPACTION TESTING WITH THE SOILS ENGINEER UNDER CONTRACT WITH CITY ENGINEERING, NO ALTERNATES WILL BE ACCEPTED.

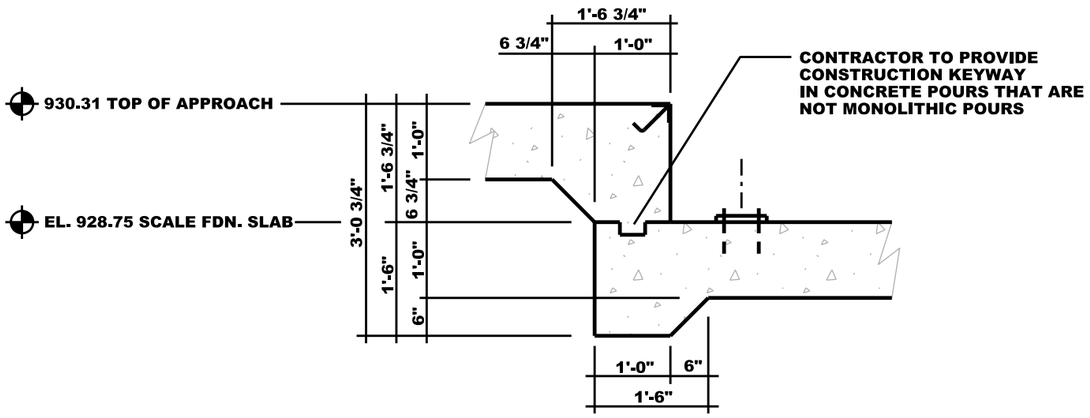
10. AT THE DISCRETION OF THE CONTRACTOR A MONOLITHIC POUR OF THE SCALE FOUNDATION SLAB, RAMPS AND APPROACHES SHALL BE ALLOWED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND INSTALLING ALL CONTROL JOINTS.

11. THE CONTRACTOR SHALL PROVIDE 1/2" EXPANSION JOINT FILLER AND SEAL ALL CONCRETE JOINTS ADJACENT TO BUILDING WALLS, SCALE FOUNDATIONS/RAMPS, AND PRECAST RETAINING WALL BASES. JOINT FILLER AND SEALANT SHALL BE AS PER CITY STANDARD SPECIFICAITON FOR PUBLIC WORKS SECTION 303.2(d) AND THIS CONTRACTS SPECIAL PROVISIONS.

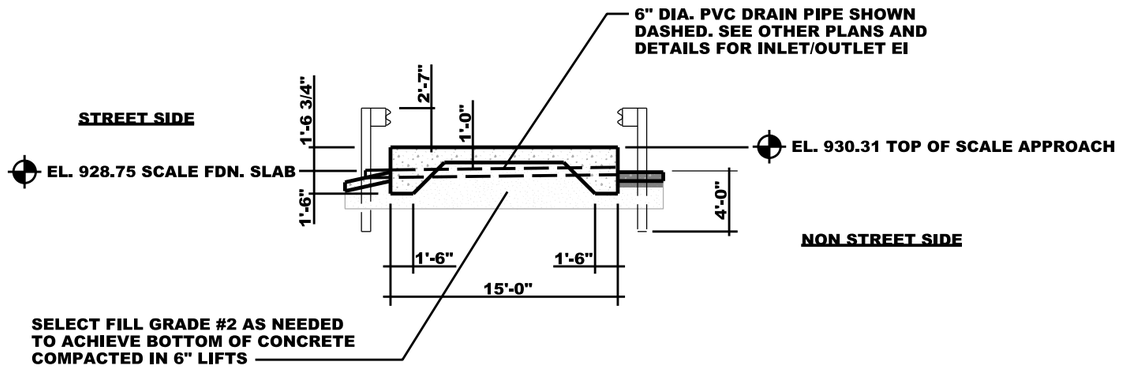
12. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND INSTALLING ALL EXPANSION JOINTS AND CONTROL JOINTS ON CONCRETE SHOULDERS.



A-A/5 SECTION THRU FOUNDATION SLAB



C/5 ENLARGED SECTION THRU SLAB AT APPROACH



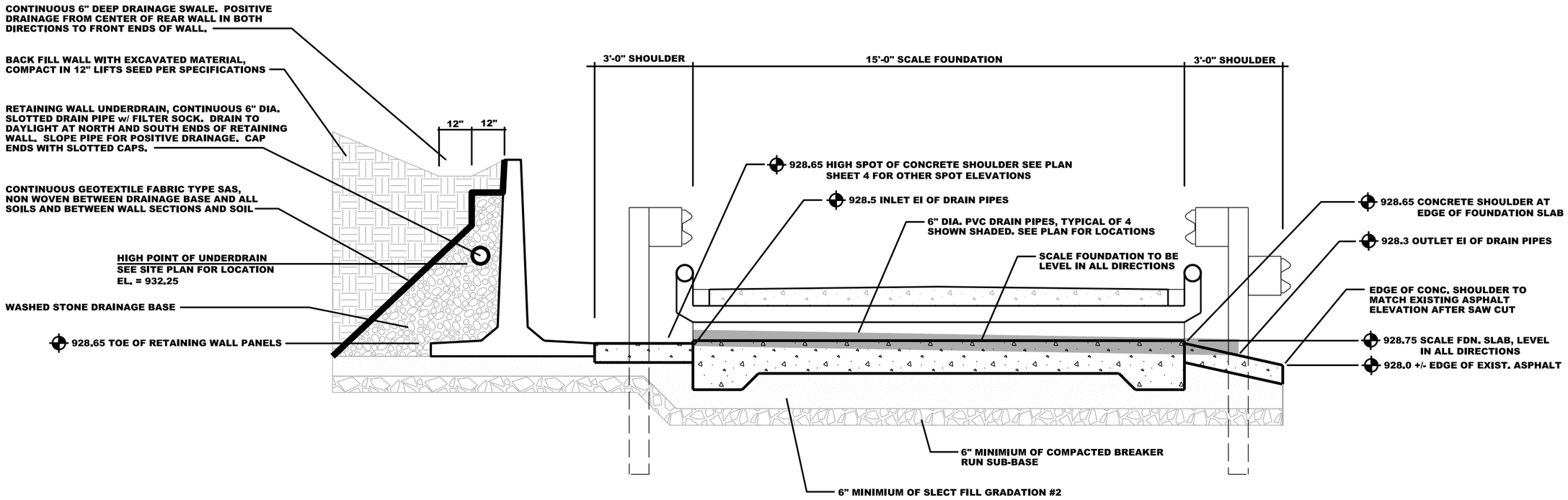
B-B/5 SECTION THRU APPROACH

CITY OF MADISON - ENGINEERING
CONTRACT 8891
SYCAMORE TRUCK SCALE

GENERAL NOTES AND DETAILS

5

BID SET JUNE 2020

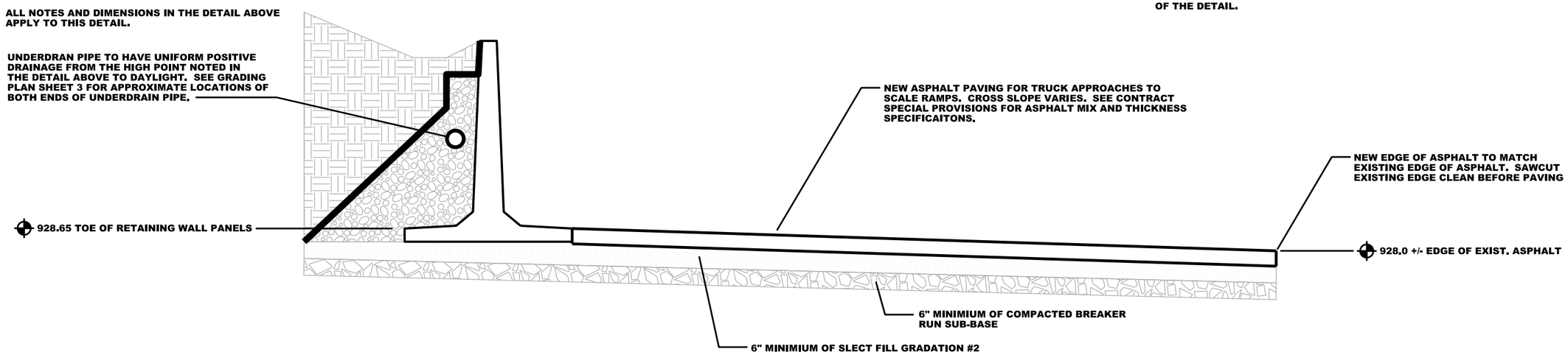


A-A/6 SECTION THRU SCALE AND RETAINING WALL

GENERAL NOTES:

1. DETAILS DRAWN USING 'WIESER CONCRETE' PRODUCT DIMENSIONS AND CROSS SECTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND ADJUSTING ALL FINAL DIMENSIONS WITH APPROVED PRODUCT EQUALS.

2. DETAILS DRAWN USING 6'-0" "T" WALL PANEL, DETAIL IS SIMILAR AT THE 5'-0" "L" WALL PANEL. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND ADJUSTING ALL FINAL DIMENSIONS TO MEET THE INTENT OF THE DETAIL.



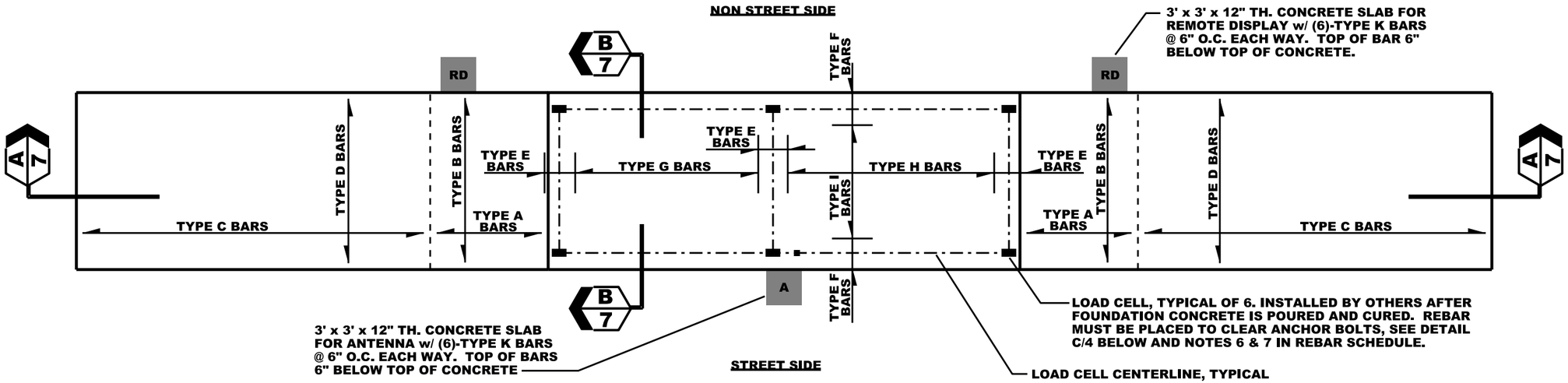
B-B/6 SECTION THRU ASPHALT PAVING AND RETAINING WALL

CITY OF MADISON - ENGINEERING
CONTRACT 8891
SYCAMORE TRUCK SCALE

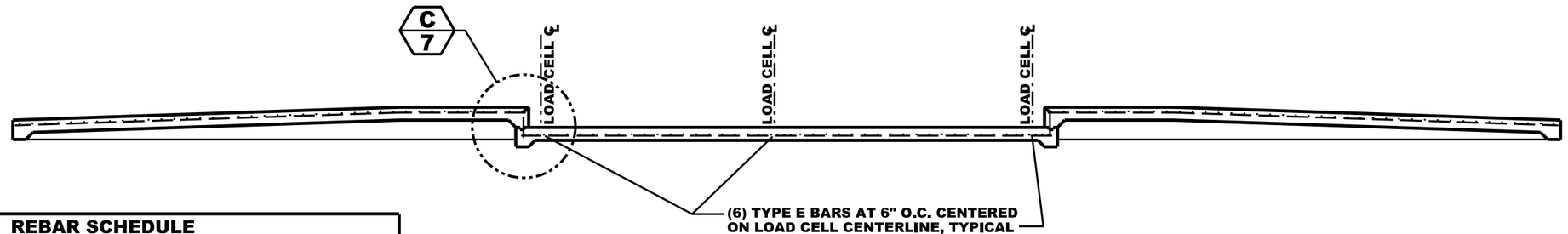
SECTIONS THRU
RETAINING WALL

6

BID SET JUNE 2020



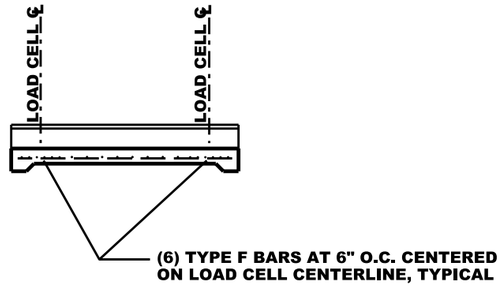
REINFORCING BAR PLAN



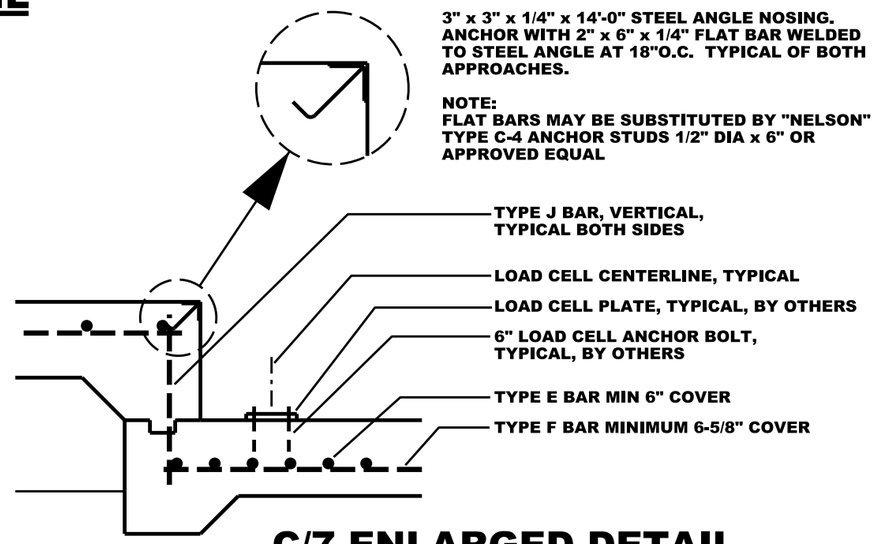
A-A/7 SECTION DETAIL

REBAR SCHEDULE					
ID NO.	SIZE			SPACING	REMARKS
A	# 5			@ 12" O.C.	NOTE 5
B	# 5			@ 12" O.C.	NOTE 5
C	# 5			@ 12" O.C.	NOTE 5
D	# 5			@ 12" O.C.	NOTE 5
E	# 5			@ 6" O.C.	NOTE 6 & 7
F	# 5			@ 6" O.C.	NOTE 6 & 8
G	# 5			@ 12" O.C.	NOTE 5
H	# 5			@ 12" O.C.	NOTE 5
I	# 5			@ 12" O.C.	NOTE 5
J	# 5			@ 12" O.C.	NOTE 5
K	# 5			@ 6" O.C.	EACH WAY

1. REINFORCING STEEL SHALL BE DEFORMED BARS MEETING ASTM A615 GRADE 60.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING QUANTITY AND LENGTHS OF REBAR REQUIRED FOR A COMPLETE INSTALLATION.
3. CONTRACTOR SHALL LAP REBARS A MINIMUM OF 40 BAR DIAMETERS.
4. ALL REBAR SHALL BE TIED PRIOR TO CONCRETE PLACEMENT.
5. MINIMUM COVER ON REBAR SHALL BE 2" UNLESS NOTED OTHERWISE.
6. CENTER BAR SPACING ON LOAD CELL CENTERLINE.
7. MINIMUM COVER ON REBAR SHALL BE 6".
8. MINIMUM COVER ON REBAR SHALL BE 6-5/8".



B-B/7 SECTION DETAIL



C/7 ENLARGED DETAIL

CITY OF MADISON - ENGINEERING
CONTRACT 8891
SYCAMORE TRUCK SCALE

REINFORCING PLAN AND DETAILS

7

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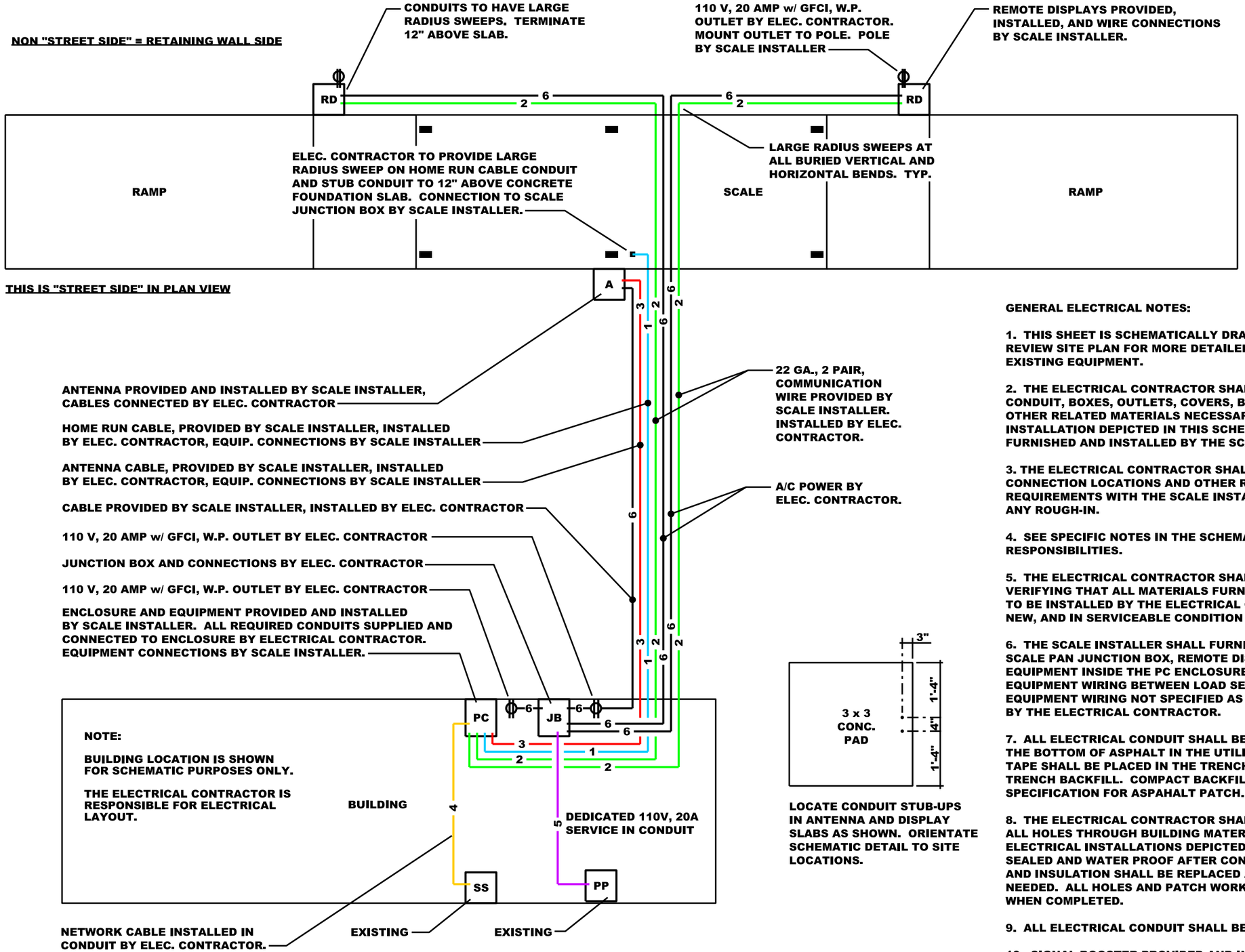

LEGEND:

A	ANTENNA
RD	REMOTE DISPLAY
PC	PC ENCLOSURE
JB	JUNCTION BOX
PP	POWER PANEL
SS	SITE SERVER (CITY IT)
1	HOME RUN
2	COMMUNICATION WIRE
3	ANTENNA WIRE
4	NETWORK CABLE
5	DEDICATED A/C CIRCUIT
6	A/C POWER

ELECTRIC SCHEMATIC

GENERAL ELECTRICAL NOTES:

1. THIS SHEET IS SCHEMATICALLY DRAWN FOR DETAIL PURPOSES ONLY REVIEW SITE PLAN FOR MORE DETAILED LOCATIONS OF NEW AND EXISTING EQUIPMENT.

2. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONDUIT, BOXES, OUTLETS, COVERS, BREAKERS, WIRE PULLS, AND OTHER RELATED MATERIALS NECESSARY FOR A CODE COMPLIANT INSTALLATION DEPICTED IN THIS SCHEMATIC UNLESS NOTED AS FURNISHED AND INSTALLED BY THE SCALE INSTALLER.

3. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL OUTLET AND CONNECTION LOCATIONS AND OTHER RELATED INSTALLATION REQUIREMENTS WITH THE SCALE INSTALLER PRIOR TO BEGINNING ANY ROUGH-IN.

4. SEE SPECIFIC NOTES IN THE SCHEMATIC PLAN FOR CONNECTION RESPONSIBILITIES.

5. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT ALL MATERIALS FURNISHED BY THE SCALE INSTALLER TO BE INSTALLED BY THE ELECTRICAL CONTRACTOR ARE COMPLETE, NEW, AND IN SERVICEABLE CONDITION PRIOR TO INSTALLATION.

6. THE SCALE INSTALLER SHALL FURNISH, INSTALL, AND CONNECT THE SCALE PAN JUNCTION BOX, REMOTE DISPLAYS, ANTENNA, AND ALL EQUIPMENT INSIDE THE PC ENCLOSURE. THIS SHALL INCLUDE ALL EQUIPMENT WIRING BETWEEN LOAD SENSORS AND OTHER MISCELLANEOUS EQUIPMENT WIRING NOT SPECIFIED AS BEING INSTALLED BY THE ELECTRICAL CONTRACTOR.

7. ALL ELECTRICAL CONDUIT SHALL BE BURIED A MINIMUM OF 2'-0" BELOW THE BOTTOM OF ASPHALT IN THE UTILITY TRENCH. ELECTRIAL CAUTION TAPE SHALL BE PLACED IN THE TRENCH 1'-0" ABOVE THE CONDUIT DURING TRENCH BACKFILL. COMPACT BACKFILL IN 6" LIFTS. MATCH ASPHALT SPECIFICATION FOR ASPAHALT PATCH.

8. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DRILLING ALL HOLES THROUGH BUILDING MATERIALS AS NEEDED TO COMPLETE THE ELECTRICAL INSTALLATIONS DEPICTED IN THE PLANS. ALL HOLES SHALL BE SEALED AND WATER PROOF AFTER CONDUIT HAS BEEN INSTALLED. SCRIM AND INSULATION SHALL BE REPLACED AND SEALED WITH SCRIM TAPE AS NEEDED. ALL HOLES AND PATCH WORK SHALL HAVE A NEAT APPEARANCE WHEN COMPLETED.

9. ALL ELECTRICAL CONDUIT SHALL BE A MINIMUM OF 1" DIAMETER.

10. SIGNAL BOOSTER PROVIDED AND INSTALLED IN THE PC ENCLOSURE BY THE SCALE INSTALLER IF REQUIRED FOR BOOSTING DATA SIGNAL.

CITY OF MADISON - ENGINEERING
CONTRACT 8891
SYCAMORE TRUCK SCALE

ELECTRICAL PLAN

8

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