

# GENERAL NOTES

## GENERAL NOTES:

### PROJECT PARTIES:

OWNER: CITY OF ST. LOUIS MISSOURI. THE OWNER OF THE PROPERTY.

CLIENT: CITIZENS FOR MODERN TRANSIT (CMT). THE SOURCE OF FUNDING FOR THE PROJECT.

CONTRACTOR: AS OF JULY 22, 2024, THE CONTRACTOR HAD NOT BEEN SELECTED.

DESIGNER: ACERNUS ARCHITECTURE LLC. THE DESIGNER AND PRODUCER OF THESE CONSTRUCTION DOCUMENTS.

### BOARD OF PUBLIC SERVICE (BPS) REQUIREMENTS:

1. IMPROVEMENTS ARE TO BE CONSTRUCTED PER THE CURRENT EDITION OF THE CITY OF ST. LOUIS STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND THE PROPOSED PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG).

2. CONTRACTOR TO OBTAIN ALL RELEVANT STREET BLOCKING AND EXCAVATION PERMITS FROM THE CITY OF ST. LOUIS STREET DEPARTMENT.

3. UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION, AND THEREFORE LOCATION SHALL BE CONSIDERED APPROXIMATE ONLY. THE VERIFICATION OF THE LOCATION OF ALL UNDERGROUND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE LOCATED PRIOR TO ANY GRADING OR CONSTRUCTION IMPROVEMENTS. CONTRACTOR TO CALL MISSOURI ONE-CALL TO RECEIVE UTILITY LOCATES PRIOR TO BEGINNING WORK.

4. CONTRACTOR TO MAINTAIN EROSION AND SEDIMENT CONTROL DEVICES IN GOOD ORDER. THE CONTRACTOR SHALL SWEEP THE ADJACENT STREETS AND SIDEWALK AT THE END OF EACH WORKDAY AS NECESSARY AND OTHERWISE PREVENT MUD AND CONSTRUCTION DEBRIS FROM ENTERING THE EXISTING SEWER SYSTEM.

5. ALL EXISTING SITE IMPROVEMENTS THAT ARE DISTURBED, DAMAGED, OR DESTROYED SHALL BE REPAIRED OR REPLACED CLOSELY TO MATCH PRE-CONSTRUCTION CONDITIONS.

6. ALL FILL, INCLUDING PLACES UNDER PROPOSED STORM AND SANITARY SEWER LINES AND PAVED AREAS WITHIN AND OFF THE ROAD RIGHT-OF-WAY, SHALL BE COMPACTED TO 95 PERCENT OF MAXIMUM DENSITY, AS DETERMINED BY THE STANDARD PROCTOR TEST (ASTM-D-698). ALL TESTS SHALL BE VERIFIED BY A SOIL ENGINEER CONCURRENT WITH GRADING AND BACKFILLING OPERATIONS. THE COMPACTED FILL SHALL BE FREE OF RUTTING AND SHALL BE NON-YIELDING AND NON-PUMPING DURING PROOF ROLLING AND COMPACTION. ALL TRENCH BACKFILLS IN PAVED AREAS SHALL BE GRANULAR FILL.

7. ALL SEWER CONSTRUCTION SHALL BE PER THE STANDARD CONSTRUCTION SPECIFICATIONS FOR SEWERS AND DRAINAGE FACILITIES OF THE METROPOLITAN ST. LOUIS SEWER DISTRICT, CURRENT EDITION.

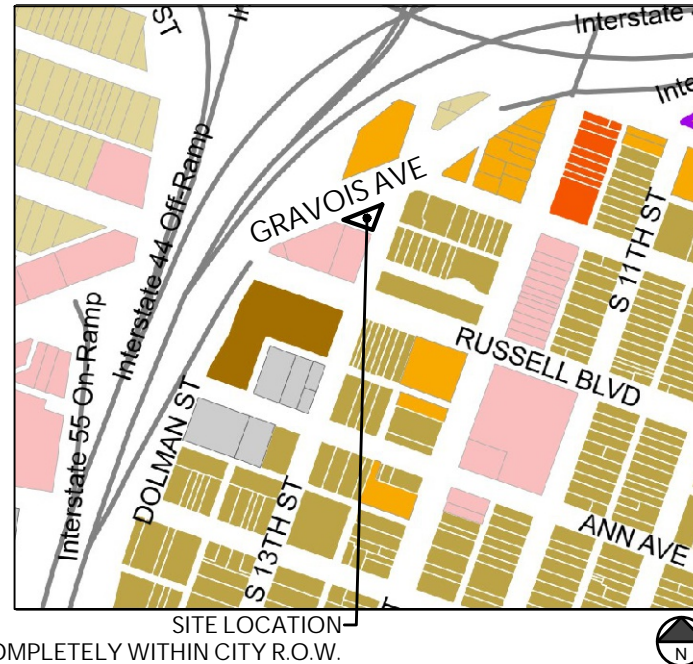
8. ALL WATER LINES SHALL BE CONSTRUCTED PER THE CITY OF ST. LOUIS WATER DIVISION SPECIFICATIONS.

9. ALL WATER LINES SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY SANITARY OR COMBINED SEWERS OR MANHOLES. WHENEVER WATER LINES MUST CROSS SANITARY OR COMBINED SEWER LATERALS, THE WATERLINE SHALL BE LAID AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER LINE IS 18 INCHES ABOVE THE TOP OF THE DRAIN. A FULL LENGTH OF WATER PIPE SHALL BE CENTERED OVER THE SEWER LINE TO BE CROSSED SO THAT THE JOINTS WILL BE EQUALLY DISTANT FROM THE SEWER AND AS REMOTE AS POSSIBLE. THIS VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATER LINE LOCATED WITHIN 10 FEET, HORIZONTALLY, OF ANY SEWER OR DRAIN IT CROSSES.

10. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE TRAFFIC CONTROL, BOTH VEHICULAR AND PEDESTRIAN, PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD.)

# BUS STOP TRANSFORMATION 13th Street & Gravois Ave

## SITE LOCATION



SITE LOCATION COMPLETELY WITHIN CITY R.O.W.

## PROJECT DIRECTORY

### CLIENT

CITIZENS FOR MODERN TRANSIT  
701 MARKET STREET, SUITE 275  
ST. LOUIS, MO, 63101  
314.231.7272  
info@cmt-stl.org

### CONTRACTOR

Not Selected as of July 22, 2024  
CONTACT NAME  
ADDRESS LINE 1  
CITY, STATE, ZIP  
PHONE NUMBER  
EMAIL ADDRESS

### CONSULTANT

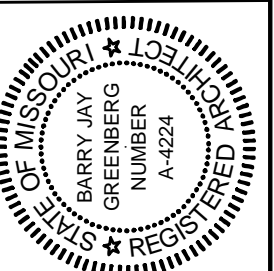
Civil & Structural Advisement  
Roy L Wall, PE  
6529 Scanlan Ave.  
St. Louis, MO, 63139  
314.302.8313  
rwall816@gmail.com



ROY L WALL, PE  
6529 SCANLAN AVE  
ST. LOUIS, MO, 63139  
314.302.8313  
rwall816@gmail.com

BUS STOP TRANSFORMATION  
Citizens For Modern Transit  
13th Street & Gravois Ave  
St Louis Missouri

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ACERNUS ARCHITECTURE, LLC  
BARRY JAY GREENBERG, LEED AP  
phone 314.645.6456  
7303 Vine Avenue  
Maplewood, MO 63143

# CODES AND ZONING

	CODE	YEAR	AMENDMENTS	REV BY:	INSP BY:
BUILDING	International Building Code(IBC)	2018	Adopted 08.01.18 via Ordinance 70797	.	.
RESIDENTIAL	.	.	.	.	.
EXISTING BUILDING	.	.	.	.	.
ELECTRICAL	.	.	.	.	.
MECHANICAL	.	.	.	.	.
PLUMBING	.	.	.	.	.
ENERGY	.	.	.	.	.
PROPERTY MAINT	.	.	.	.	.
FIRE	.	.	.	.	.
ZONING ORDINANCE	.	.	.	B	.
ZONING DISTRICT	.	.	.	.	.

	A.	B.	C.	D.
ENTITY	CITY OF ST LOUIS	.	.	.
DEPARTMENT	Board of Public Service (BPS)	.	.	.
ADDRESS	Room 301, City Hall, 1200 Market	.	.	.
CITY / STATE / ZIP	St. Louis, MO, 63103-2826	.	.	.
CONTACT NAME	Office of the Secretary	.	.	.
PHONE	314-613-7320	.	.	.
EMAIL	knoxm@stlouis-mo.gov	.	.	.

# DRAWING INDEX

REVISION NUMBER	DATE	REVISED CONTENT							
REVISION 5	.	.							
REVISION 4	.	.							
REVISION 3	8-21-2024	ISSUED AS REVISION - Increased general slab thickness from 4" to 5"							
REVISION 2	8-01-2024	ISSUED AS ADDENDUM TO BID/RFP PACKAGE- Eliminated retaining walls, wall footings & wall drain piping							
REVISION 1	7-22-2024	ISSUED FOR PUBLIC IMPROVEMENT PERMIT - Changed sourceing - Added notes - Prefab Shelter							
ISSUED	7-08-2024	ISSUED FOR CLIENT APPROVAL							
COVER		SITE LOCATION, CODE SUMMARY, GENERAL NOTES, PROJECT DIRECTORY	X	X	X	X			
SPEC-1		GENERAL NOTES AND SPECIFICATIONS (CONTINUED)	X	X	X	X			
SPEC-2		GENERAL NOTES AND SPECIFICATIONS (CONTINUED)	.	X	X	X			
A - 1		IMPROVEMENT PLAN	X	X	X	X			
A - 2		SITE PLAN	X	X	X	X			
A - 3		SHELTER PLAN AND ELEVATIONS	X	X	X	X			
A - 4		CONCRETE SLAB DETAILS	X	X	X	X			

REVISION:	DATE:
1	July 22, 2024
2	Aug 1, 2024
3	Aug 21, 2024

JOB NO: 24.02  
DATE: July 8, 2024  
DRWN: RLW  
CHKD: BJB

# COVER

NOTES, DRAWING INDEX  
CODES, ZONING, MAP

**GENERAL NOTES (CONTINUED):**

DESCRIPTION OF WORK:

11. THE CONSTRUCTION OF THE BUS STOP TRANSFORMATION AT 13 TH STREET AND GRAVOIS AVENUE CONSIST OF THE PLACEMENT OF CONCRETE SLABS FOR A SHELTER COURTYARD, A CIRCULAR COURTYARD AND AN ENTRANCE WALKWAY; FUNCTIONAL AND DECORATIVE RETAINING WALLS; INSTALLATION OF A PREFAB VINTAGE WAITING SHELTER; INSTALLATION OF WAITING BENCHES; INSTALLATION OF TRASH AND CIGARETTE RECEPTACLES WITH NEW CONCRETE PAD; AND LANDSCAPING INCLUDING NEW TREES AND BUSHES.

SAFETY:

12. JOBSITE SAFETY SHALL COMPLY WITH O.S.H.A. REGULATIONS AND ALL APPLICABLE LOCAL, STATE AND FEDERAL REQUIREMENTS. TAKE NECESSARY PRECAUTIONS TO PREVENT INJURY OR DAMAGE TO ADJACENT PROPERTIES AND PEDESTRIAN AND VEHICULAR TRAFFIC.

13. CONTRACTOR TO BE RESPONSIBLE FOR COMPLIANCE WITH ALL GOVERNMENT AND INDUSTRY JOB SITE SAFETY STANDARDS AND REQUIREMENTS.

14. FIRE EXTINGUISHERS MUST BE KEPT ON THE JOB SITE DURING CONSTRUCTION PROCESS.

15. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF TRASH AND CONSTRUCTION DEBRIS ON A DAILY BASIS. PREMISES SHALL BE THOROUGHLY CLEANED UPON COMPLETION OF CONSTRUCTION.

16. CONTRACTOR AND SUBCONTRACTORS SHALL PROVIDE EVIDENCE OF CURRENT GENERAL LIABILITY, WORKERS COMPENSATION, AND COMMERCIAL AUTO INSURANCE POLICIES IN FORCE.

17. ALL VERTICAL DIFFERENCE OF EXCAVATION GREATER THAN 3' IN HEIGHT SHALL BE CONSIDERED A HAZARD TO PERSONNEL. SIDES OF HAZARDOUS EXCAVATIONS SHALL BE IMMEDIATELY CUT TO A SLOPE OF 1 ON 1 OR LESS.

18. ANY PERSON ON THE SITE WHEN THERE IS OVERHEAD EQUIPMENT OR CONSTRUCTION SHALL BE REQUIRED TO WEAR A HARD HAT.

CONSTRUCTION ADMINISTRATION NOTES

15. ALL WORK SHALL COMPLY WITH APPLICABLE LOCAL AND MUNICIPAL BUILDING CODES AS WELL AS ANY AND ALL REGULATORY AGENCIES INCLUDING, BUT NOT LIMITED TO, OSHA ETC. IN ABSENCE OF JURISDICTION REQUIRED CODE COMPLIANCE, ALL WORK SHALL COMPLY WITH THE LATEST VERSION OF THE INTERNATIONAL CODE COUNCIL CODE BOOK GOVERNING EACH DISCIPLINE.

16. VERIFY ALL JOB CONDITIONS, DIMENSIONS AND DETAILS PRIOR TO CONSTRUCTION, AND AS ANTICIPATED OR INFERRED PRIOR TO PRICING OR BIDDING.

17. OWNER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR OMISSIONS WHICH WOULD INTERFERE WITH THE SATISFACTORY COMPLETION OF THE WORK, PRIOR TO THE START OF ANY AND ALL WORK.

18. ALL CONSTRUCTION WORKERS AND SUBCONTRACTORS PERFORMING UNDER THIS WORK SHALL BE SKILLED IN THEIR RESPECTIVE TRADES AND HAVE LICENSES/CERTIFICATIONS AS REQUIRED BY THE JURISDICTION IN WHICH THE WORK IS PERFORMED.

19. ALL WORK WHETHER SHOWN OR IMPLIED, UNLESS SPECIFICALLY QUESTIONED, SHALL BE CONSIDERED FULLY UNDERSTOOD IN ALL RESPECTS - NO CHANGE ORDERS WILL BE ALLOWED FOR SUBJECTIVE INTERPRETATION OF PROJECT SCOPE.

20. ALL WORK INDICATED ON OR INFERRED ON THE DRAWINGS WILL BE DEEMED TO BE INCLUDED IN BOTH THE WORK SCOPE AND BID UNLESS INDICATED OTHERWISE IN WRITING BY THE OWNER.

21. CLIENT SHALL APPLY AND PAY FOR PUBLIC IMPROVEMENT PERMIT. COMMERCIAL BUILDING PERMIT IS NOT REQUIRED. CONTRACTOR SHALL APPLY, PAY FOR AND PICK UP ALL OTHER PERMITS THAT MAY BE REQUIRED, UNLESS SPECIFIED OTHERWISE. SUBCONTRACTORS SHALL BE RESPONSIBLE FOR PERMITS FOR THEIR SCOPE OF WORK. THE ARCHITECT WILL PROVIDE BACKGROUND DRAWINGS ONLY WHEN REQUESTED BY THE CONTRACTOR OR SUBCONTRACTORS.

22. THE CONTRACTOR SHALL ARRANGE FOR AND COORDINATE ALL INSPECTIONS REQUIRED FOR PROJECT COMPLETION AND ISSUANCE OF THE CERTIFICATE OF OCCUPANCY.

23. SUBMIT IN WRITING ALL PROPOSALS FOR ADDITIONAL WORK TO OWNER FOR REVIEW AND APPROVAL. NO WORK IS TO PROCEED UNTIL A SIGNED AUTHORIZATION TO PROCEED IS RETURNED.

24. OWNER RESERVES THE RIGHT TO HAVE OTHER CONTRACTS IN CONNECTION WITH THE WORK OF THE PROJECT. CONTRACTOR TO WORK WITH OWNER TO COORDINATE WORK SCOPE AND SCHEDULING OF ALL WORK PERFORMED AT JOBSITE.

25. CONTRACTOR TO PRODUCE A DETAILED CONSTRUCTION SCHEDULE FOR THE PROJECT, INCLUDING SUBCONTRACTOR WORK, IN WRITING AND UPDATE THE CONSTRUCTION STATUS ON A WEEKLY BASIS WITH COPIES TO THE OWNER AND ARCHITECT.

26. NO MATERIAL SUBSTITUTIONS SHALL BE MADE. OWNER WILL CONSIDER MATERIAL CHANGE REQUESTS ON AN INDIVIDUAL BASIS. SUBMIT SAMPLES AND CUTS FOR WRITTEN APPROVAL BY OWNER PRIOR TO THE START OF ANY WORK.

27. ALL MATERIALS AND EQUIPMENT SPECIFIED SHALL BE SUPPLIED, INSTALLED, CONNECTED, ERECTED, CLEANED, AND CONDITIONED IN STRICT COMPLIANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND ACCEPTED INDUSTRY PRACTICE.

28. CONTRACTOR TO ASSEMBLE MANUAL TO INCLUDE ALL MATERIAL AND COMPONENT SPECIFICATIONS AND WARRANTIES INCLUDING SUBCONTRACTOR WORK. MANUAL SHALL BE DELIVERED TO THE OWNER PRIOR TO FINAL PAYMENT.

29. CONTRACTOR AND SUBCONTRACTORS SHALL SUBMIT LIEN WAIVERS FOR ALL LABOR AND MATERIALS IN THEIR SCOPE OF WORK AS A PREREQUISITE TO FINAL PAYMENT.

29. CONTRACTOR AND SUBCONTRACTORS SHALL COORDINATE THEIR WORK WITH THE UTILITY COMPANIES.

SITE CONDITIONS:

30. THE CLIENT, OWNER AND DESIGNER ASSUME NO RESPONSIBILITY FOR HIDDEN CONDITIONS THAT MAY EFFECT THE PROJECT WORK. THE CONTRACTOR SHALL THOROUGHLY INSPECT THE SITE BEFORE BIDDING AND COMMENCEMENT OF THE PROJECT TO ANTICIPATE ALL CONDITIONS. SEE NOTE 16.

PUBLIC PROTECTION:

31. PROVIDE TEMPORARY BARRICADES AND OTHER FORMS OF PROTECTIONS AS REQUIRED TO PROTECT CONTRACTOR'S AND OWNER'S PERSONNEL AND GENERAL PUBLIC FROM INJURY DUE TO CONSTRUCTION WORK. SEE BPS NOTES 1 THRU 10.

32. PROTECT EXISTING CONSTRUCTION AND ADJACENT FINISHES AND SURFACES FROM DAMAGE DURING CONSTRUCTION PROCESS. REMOVE PROTECTIONS AT COMPLETION OF WORK.

UTILITIES:

33. VERIFY LOCATION OF UTILITIES, INCLUDING ELECTRICITY, GAS, WATER, SEWER AND COMMUNICATIONS INFRASTRUCTURE ON AND OVER THE CONSTRUCTION SITE. SEE BPS NOTES 1 THRU 10.

34. DO NOT DAMAGE EXISTING UTILITIES DURING EXCAVATION OR DURING OVERHEAD CRANE OPERATIONS.

INSPECTIONS AND PERMITS:

35. THE CLIENT WILL ARRANGE FOR THE INITIAL PUBLIC IMPROVEMENT PERMIT. CONTRACTOR WILL ARRANGE FOR AND COORDINATE ALL SUBSEQUENTLY REQUIRED PERMITS AND INSPECTIONS WITH THE PROPER JURISDICTIONAL AUTHORITIES.

DESIGN LOADS:

36. SEISMIC DESIGN REQUIREMENTS - DESIGN OF THE WALLS AND SHELTER OF THE BUS STOP TRANSFORMATION CONSIDERS THE EARTHQUAKE LOADS PRESCRIBED BY THE IBC BUILDING CODE

CODE : IBC 2018, ASCE 7-16  
 MAXIMUM SHORT PERIOD GROUND ACCELERATION (Ss) : 0.433g  
 MAXIMUM LONG PERIOD GROUND ACCELERATION (S1) : 0.156g  
 SEISMIC SITE CLASS : D  
 IMPORTANCE (SEISMIC) : 1.00  
 SEISMIC BUILDING RESPONSE COEFFICIENT (R) : 3½ (STEEL ORDINARY MOMENT FRAMES)  
 SEISMIC COEFFICIENT (CS) : 0.12 x WEIGHT

37. WIND DESIGN REQUIREMENTS - DESIGN OF THE WALLS AND SHELTER OF THE BUS STOP TRANSFORMATION CONSIDERS THE WIND LOADS PRESCRIBED BY THE IBC BUILDING CODES

CODE : IBC 2018, ASCE 7-16  
 RISK CATEGORY : II (2)  
 IMPORTANCE : NOT APPLICABLE FOR WIND WITHIN ASCE7-16  
 BASIC WIND SPEED (V) : 108 MPH  
 EXPOSURE FACTOR (Kz) : 0.98  
 DIRECTIONAL FACTOR (Kd) : 0.95  
 GUST FACTOR (G) : 0.85  
 BASIC WIND PRESSURE (qh) : 23.5 PSF (LRFD)  
 NET MAX WALL WIND LOAD (q) : 30 PSF (LRFD)  
 NET MAX ROOF WIND UPLIFT (q): 40 PSF (LRFD)

38. LIVE LOAD ON SLAB : 40 PSF

39. ROOF LIVE & SNOW LOAD : 20 PSF

EXCAVATION, SOIL PREPARATION AND CAPACITY:

40. TOPSOIL AND ORGANIC MATERIAL SHALL BE REMOVED FROM AREAS WHICH ARE TO BE EXCAVATED AND/OR AREAS TO RECEIVE SLAB ON GRADE. TOPSOIL SHALL BE SAVED OUT OF THE WAY OF CONSTRUCTION UNTIL REQUIRED TO BE REPLACED OVER FILL AREAS FOR LANDSCAPING AND FOR THE CULTIVATION OF GROUND VEGETATION.

42. CONCRETE SLABS ON GRADE ARE DESIGNED CONSIDERING AN ALLOWABLE (ASD) SOIL PRESSURE OF 1500 PSF. SLABS SHOULD PLACED ON A COMPACTED SOIL SUB BASE TO 90% OF MAXIMUM COMPACTION (90% PROCTOR) AND UPON A LAYER OF 4 INCHES OF COMPACTED FINE GRAVEL OR SAND.

43. FINE GRAVEL OR SAND IS ALSO USED TO INSURE UNIFORM LEVELING OF THE UNDERSIDE OF THE SLAB.

44. GRADE ELEVATIONS ARE PROPOSED ON THE SITE PLAN AND SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE.

45. GRADE SLOPES AND SLAB SLOPES SHALL NOT BE GREATER THAN 1 ON 12 (8%) FOR WHEELCHAIR ACCESS. PRESUMED LEVEL SURFACES SHALL HAVE A MINIMUM SLOPE OF ¼ ON 12 FOR ADEQUATE DRAINAGE.

46. GRAVEL USED TO FILL BEHIND THE RETAINING WALLS AND IN FRENCH DRAINS SHALL BE WELL GRADED (ASSORTED PARTICLE SIZES). GRAVEL IS GRADED SO THAT IT DRAINS WELL BUT STILL PREVENTS THE INTERVENTION OF TOP SOIL PLACED OVER THE GRAVEL FILL.

SLAB CONCRETE AND MASONRY GROUT:

47. CONCRETE SHALL REACH A 28 DAY STRENGTH (f'c) OF 3500 PSI FOR THE SLAB ON GRADE AND FOR THE SHELTER POST HOLE FOUNDATIONS. THE MIX DESIGN FOR THE CONCRETE IS THE RESPONSIBILITY OF THE CONTRACTOR OR THE COMPANY SUPPLYING THE CONCRETE.

48. CONCRETE AT SHELTER BASES SHALL BE FINISHED AT A UNIFORM ELEVATION TO PREVENT BOTTOM GAPS BETWEEN THE COLUMN ORNAMENTAL BASES AND FINISHED CONCRETE.

49. LOGICAL CONSTRUCTION JOINTS SHALL BE PLACED DURING THE PLACEMENT OF THE CONCRETE.

50. LOGICAL CONTRACTION JOINTS SHALL BE SPACED A MINIMUM OF 5' AND A MAXIMUM OF 8'. CONTROL OF CONTRACTION CRACKS IS IMPORTANT FOR AESTHETICS AS WELL AS CONTINUED ACCESSIBILITY FOR WHEEL CHAIRS, STROLLERS AND WALKERS.

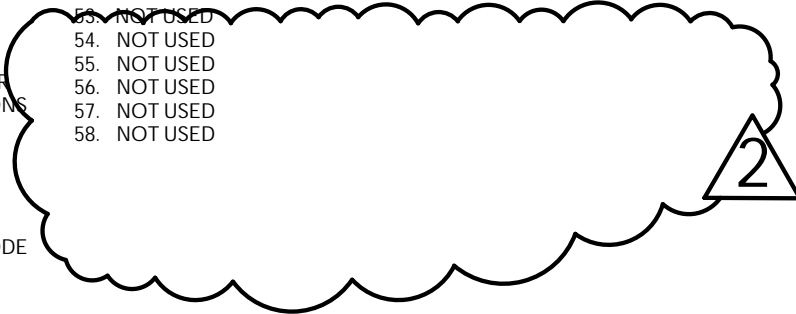
51. NOT USED - Wall grout spec not necessary - Rev 2, Aug 1, 2024

CONCRETE REINFORCEMENT:

52. REINFORCEMENT SHALL POSSESS A MINIMUM YIELD STRESS (fy) OF 40,000 PSI.

RETAINING WALL MATERIALS ELIMINATED - REV 2, AUG 1, 2024

- 53. NOT USED
- 54. NOT USED
- 55. NOT USED
- 56. NOT USED
- 57. NOT USED
- 58. NOT USED



ROY L WALL, PE  
 6529 SCANLAN AVE  
 ST LOUIS, MO 63139  
 314 302 8313 - rwall816@gmail.com



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 Citizens For Modern Transit  
 13th Street & Gravois  
 St. Louis, Missouri

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**ACERNUS ARCHITECTURE, LLC**  
**BARRY JAY GREENBERG, LEED AP**  
 phone 314.645.6456 ■ barry@acernus.net  
 7303 Vine Avenue ■ Maplewood, MO 63143

REVISION:	DATE:	July 22, 2024			
	1. Sourcing - Prefab Shelter	Aug 1, 2024			
	2. Elim material for Walls	Aug 21, 2024			
3. Slab Thickness from 4 to 5"					
JOB NO:	24.02				
DATE:	July 8, 2024				
DRWN:	RLW				
CHKD:	BJG				

**SPEC-1**  
 NOTES AND SPECIFICATIONS



**GENERAL NOTES (CONTINUED):**

PREFABRICATED SHELTER:

59. THE PREFABRICATED SHELTER WILL BE SUPPLIED BY THE CLIENT AND DELIVERED TO THE SITE. THE CLIENT WILL COORDINATE WITH THE CONTRACTOR TO SCHEDULE FOR JUST IN TIME DELIVERY. THE IMPORTANCE BEING THAT THE SHELTER KIT CANNOT BE LEFT UNSECURED. IT MUST BE ASSEMBLED, ERECTED AND ANCHORED IMMEDIATELY TO PREVENT THEFT.

60. EARLY IN THE PROJECT, THE CLIENT SHALL PROVIDE CONTRACTOR WITH CATALOG IMAGES AND DATA SHEETS OF THE OF THE PROPOSED PREFABRICATED SHELTER. THE CONTRACTOR SHALL PLAN FOR THE INSTALLATION AS PART OF THE CONSTRUCTION CONTRACT.

61. THE PREFABRICATED SHELTER WILL BE SIMILAR TO 'HANDI-HUT', VICTORIA SHELTER, MODEL 10; 10'x3'6". THE FRAME WILL BE ANODIZED ALUMINUM PAINTED.

BENCHES

62. BENCHES WILL BE SUPPLIED BY THE CLIENT AND DELIVERED TO THE SITE. THE CLIENT WILL COORDINATE WITH THE CONTRACTOR TO SCHEDULE FOR JUST IN TIME DELIVERY. THE IMPORTANCE BEING THAT BENCHES MUST BE INSTALLED IMMEDIATELY AND ANCHORED TO PREVENT THEFT.



63. EARLY IN THE PROJECT, THE CLIENT SHALL PROVIDE CONTRACTOR WITH CATALOG IMAGES AND DATA SHEETS OF THE OF THE PROPOSED BENCHES. THE CONTRACTOR SHALL INCLUDE LABOR AND MATERIALS FOR BENCH INSTALLATION AND ANCHORAGE.

64. BENCHES WILL BE VINTAGE-OLD STYLE, SIMILAR TO BENCH FACTORY, CLASSIC PARK BENCHES. THE SHELTER BENCH, REPLACEMENT BENCH AND BENCHES IN CIRCULAR COURTYARD SHALL ALL BE NOMINALLY 6' LONG WITH 1 ARM REST DIVIDER BETWEEN OCCUPANTS.

65. BENCHES SHALL BE BOLTED OR CHAINED TO THE CONCRETE SLAB WITH TAMPER RESISTANT EXPANSION OR EPOXY BOLTS. IT IS IMPORTANT THAT BENCHES ARE ANCHORED TO PREVENT THEFT.

TRASH AND CIGARETTE RECEPTACLES

66. TRASH RECEPTACLE AND CIGARETTE RECEPTACLES WILL BE SUPPLIED BY THE CLIENT AND DELIVERED TO THE SITE. THE CLIENT WILL COORDINATE WITH THE CONTRACTOR TO SCHEDULE FOR JUST IN TIME DELIVERY. THE IMPORTANCE BEING THAT RECEPTACLES CAN BE INSTALLED IMMEDIATELY AND ANCHORED TO PREVENT THEFT.

67. EARLY IN THE PROJECT, THE CLIENT SHALL PROVIDE CONTRACTOR WITH CATALOG IMAGES OF THE OF THE PROPOSED TRASH AND CIGARETTE RECEPTACLES. THE CONTRACTOR SHALL PLAN FOR RECEPTACLE INSTALLATION.

68. THE RECEPTACLES SHALL BE BOLTED OR CHAINED TO THE CONCRETE SLAB WITH TAMPER RESISTANT EXPANSION OR EPOXY BOLTS. IT IS IMPORTANT THAT BOTH RECEPTACLES ARE ANCHORED TO PREVENT THEFT. CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS FOR BOLTING AND/OR CHAINING RECEPTACLES TO THE CONCRETE.

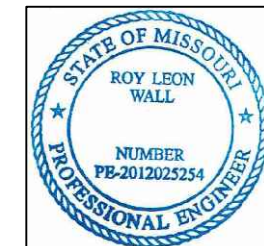
LANDSCAPING

69. EXCAVATED AREAS SHALL BE COVERED WITH A MINIMUM OF 4" OF TOPSOIL AND GRASS SOD ORIGINALLY SET ASIDE FOR SAFE KEEPING.

70. TREES SHALL BE RED MAPLE (Acer Rubrum, species Latin name.); CALIBER 3" - WHICH ARE 16' TO 18' TALL. PLANT TREES ACCORDING TO NURSERY INSTRUCTIONS.

71. BUSHES SHALL BE GRAPE CREPE MYRTLE (Lagerstroemia Bellini); MATURE BUSHES WHICH ARE 3' TO 4' IN HEIGHT.

ROY L WALL, PE  
6529 SCANLAN AVE  
ST LOUIS, MO 63139  
314 302 8313 - rwall816@gmail.com



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REVISION:	DATE:
1 Sourcing - Prefab Shelter	July 22, 2024
2 Elim. refer to wall seats.	Aug 1, 2024
3 Slab thickness from 4" to 5"	Aug 21, 2024

JOB NO: 24.02  
DATE: July 22, 2024  
DRWN: RLW  
CHKD: BJK

**SPEC-2**  
NOTES AND SPECIFICATIONS





**GRAVOIS AVENUE**

**ALLEY**

**13TH STREET**

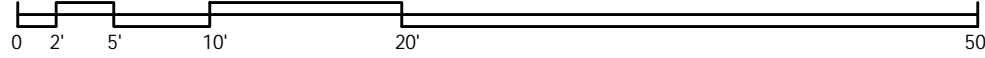
Conoco station across alley from site.  
Owner: Midwest Petroleum Company  
220 Old Meramec Station Road  
St. Louis, MO 63021  
636-220-3800 (owner phone)

Parking lot across alley from site:  
Owner: Soulard Properties Group LLC  
5203 Chippewa Street Ste 301  
St. Louis, MO 63109

Church across 13th Street  
Owner: Soulard Properties Group LLC  
5203 Chippewa Street Ste. 301  
St. Louis, MO 63109

REV 2 - AUG 1, 2024  
ELIMINATE RETAINING  
WALLS, WALL FOOTINGS  
AND DRAIN PIPES ADD  
ADJ. OWNER ADDRESSES

**1**  
**A-1** IMPROVEMENT PLAN



SCALE: 1" = 10'



ROY L WALL, PE  
6529 SCANLAN AVE  
ST. LOUIS, MO, 63139  
314.302.8313  
rwall816@gmail.com

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**ACERNUS ARCHITECTURE, LLC**  
BARRY JAY GREENBERG, LEED AP  
phone 314.645.6456 ■ barry@acernus.net  
7303 Vine Avenue ■ Maplewood, MO 63143

REVISION:	DATE:
1 Public Improvement Req.	July 22, 2024
2 Eliminate Walls, Move Trees	Aug 1, 2024
3 Increased slab 4" to 5"	Aug 21, 2024

JOB NO: 24.02  
DATE: July 8, 2024  
DRWN: RLW  
CHKD: BJB

**A-1**  
IMPROVEMENT PLAN





GRAVOIS AVENUE

REMOVE 4" TREE STUMP - APPROX CENTER OF SITE

SHELTER PLAN 3 A-3

CATCH BASIN W MANHOLE  
MEASURE POINT - WEST EDGE OF CATCH BASIN - EXTENDED TO INSIDE CURB

NEW RED MAPLE CALIPER 3

EXISTING TREE - KEEP  
EXISTING BUSH - REMOVE

MEASURE POINT - NORTH END OF GRASS MEDIAN - EDGE OF CONCRETE  
GRASS MEDIAN

SIDEWALK, CURB AND ELECTRICAL BOX DAMAGE - REPAIR IS NOT IN CONTRACT

STEEL BENCH FRAME AND CONCRETE PAD - REMOVE FRAME - KEEP PAD

EXISTING LIMESTONE MASONRY WALL

SIDEWALK

GRASS AREA

ALLEY

+30

+36.5

NEW RED MAPLE CALIPER 3

6' BENCH - PURCHASED BY CLIENT - INSTALLED BY CONTRACTOR (TYP.)

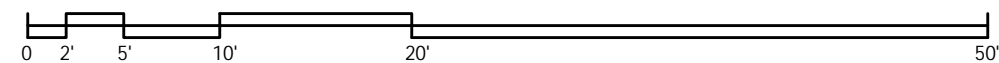
REV 2 - AUG 1, 2024  
ELIMINATE RETAINING WALLS, WALL FOOTINGS AND DRAIN PIPES

1 A-2

# IMPROVEMENT PLAN

RIGHT OF WAY (ROW) BOUNDARY  
PRIVATE PROPERTY

ELEVATION DATUM +0.00  
SANITARY SEWER COVER - RELATIVE ELEVATIONS SHOWN IN BOXES:  $\boxed{+x.x}$  IN INCHES.



SCALE: 1" = 10'

NEW 6' BENCH PURCHASED BY CLIENT, INSTALLED BY CONTRACTOR  
REPLACE OLD BENCH

NEW 4'x4' THK CONC PAD WITH TRASH AND CIGARETTE RECEPTALS

SIDEWALK

GRASS AREA

EXISTING BUSH - REMOVE

GRASS MEDIAN

SIDEWALK

GRASS AREA

NEW CREPE MYRTLE BUSH

EXISTING BUSH - REMOVE

LESS THAN 90 DEGS.

REMOVE CURB AT WALKWAY  
13TH STREET

REPLACE EXIST BUSH WITH NEW CREPE MYRTLE

FLOWER BED  
REPLACE 4" MIN TOPSOIL



ROY L. WALL, PE  
6529 SCANLAN AVE  
ST. LOUIS, MO, 63139  
314.302.8313  
rwall816@gmail.com

**BUS STOP TRANSFORMATION**  
Citizens For Modern Transit  
13th Street & Gravois Ave  
St. Louis, Missouri

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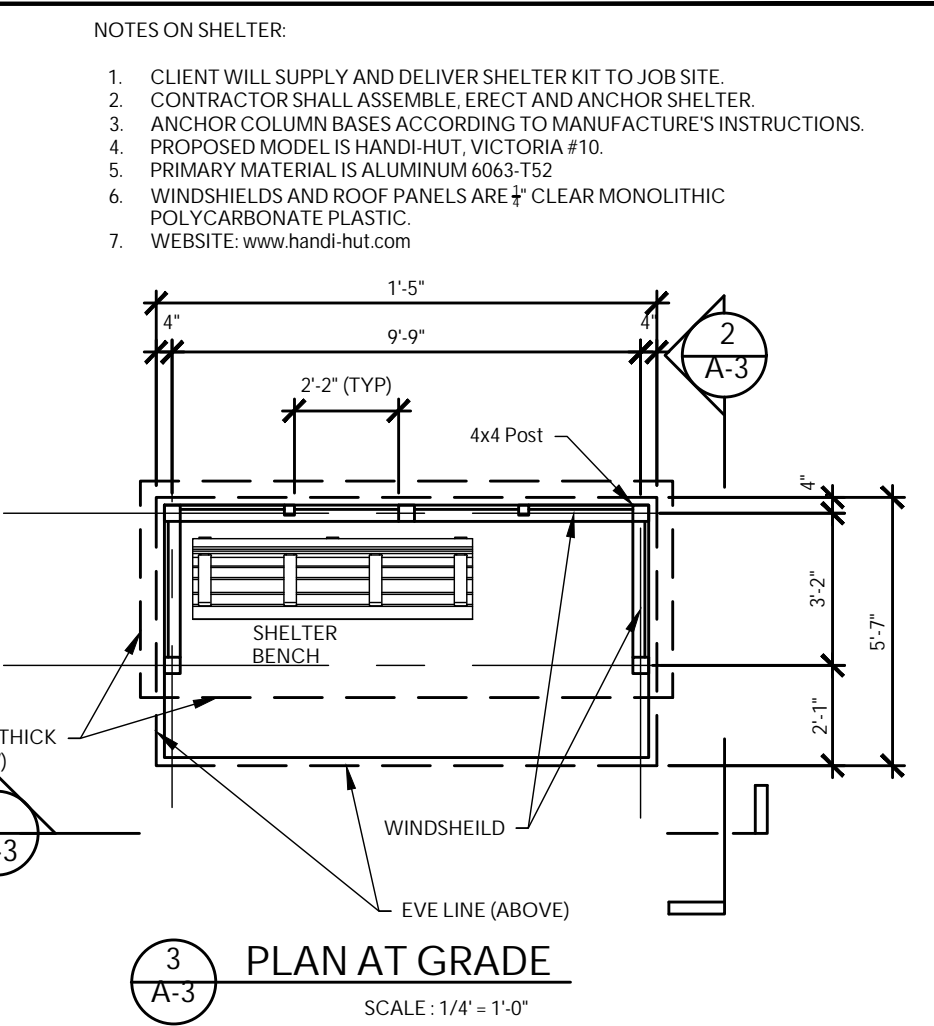
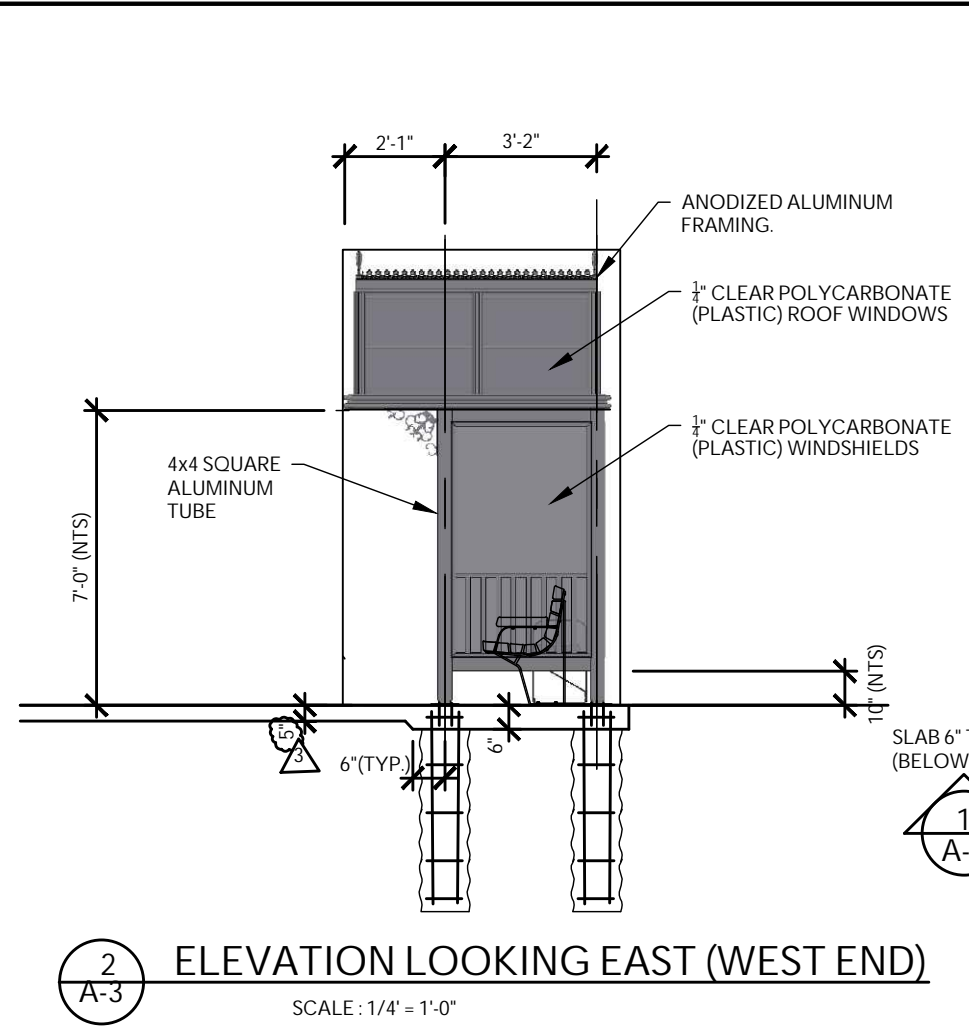
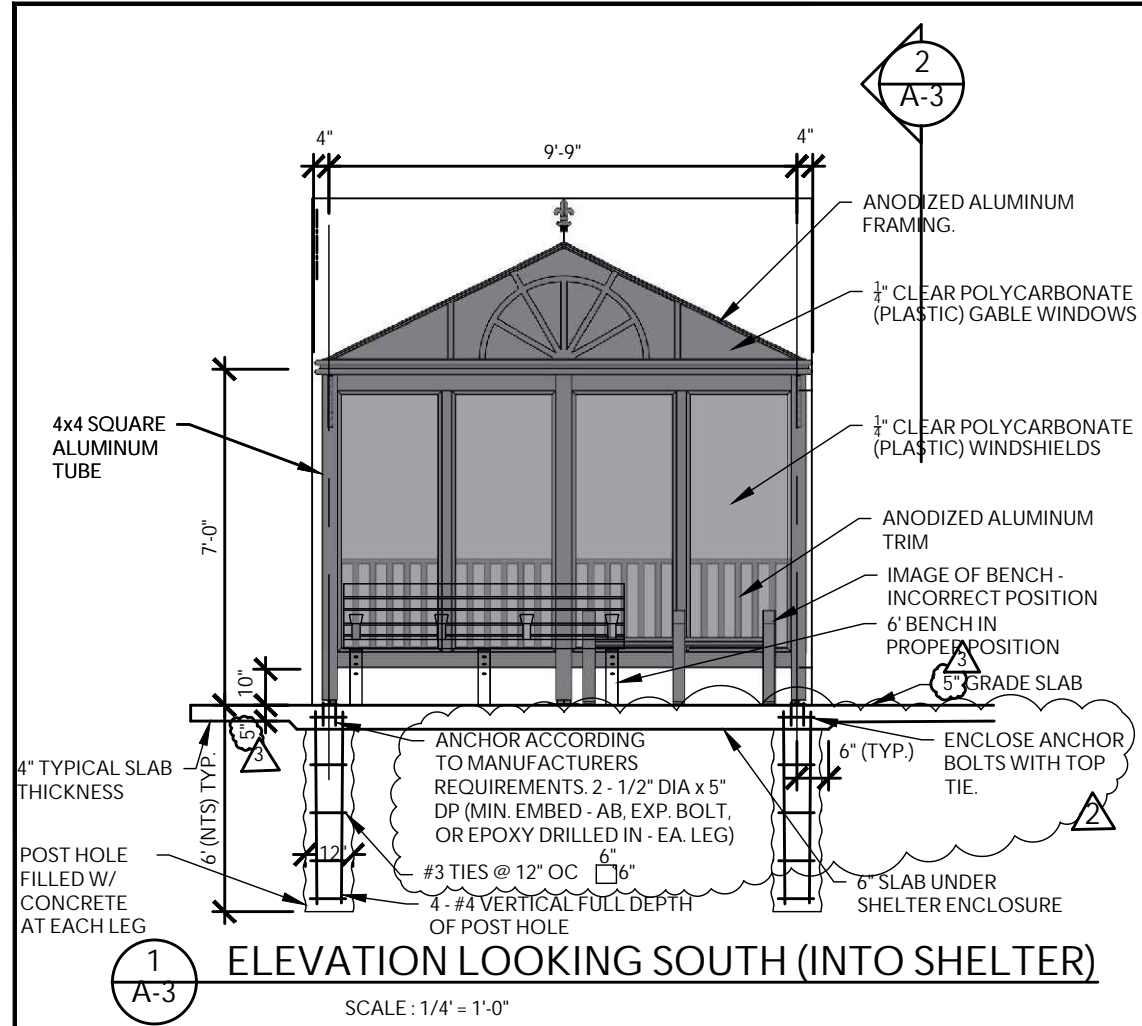


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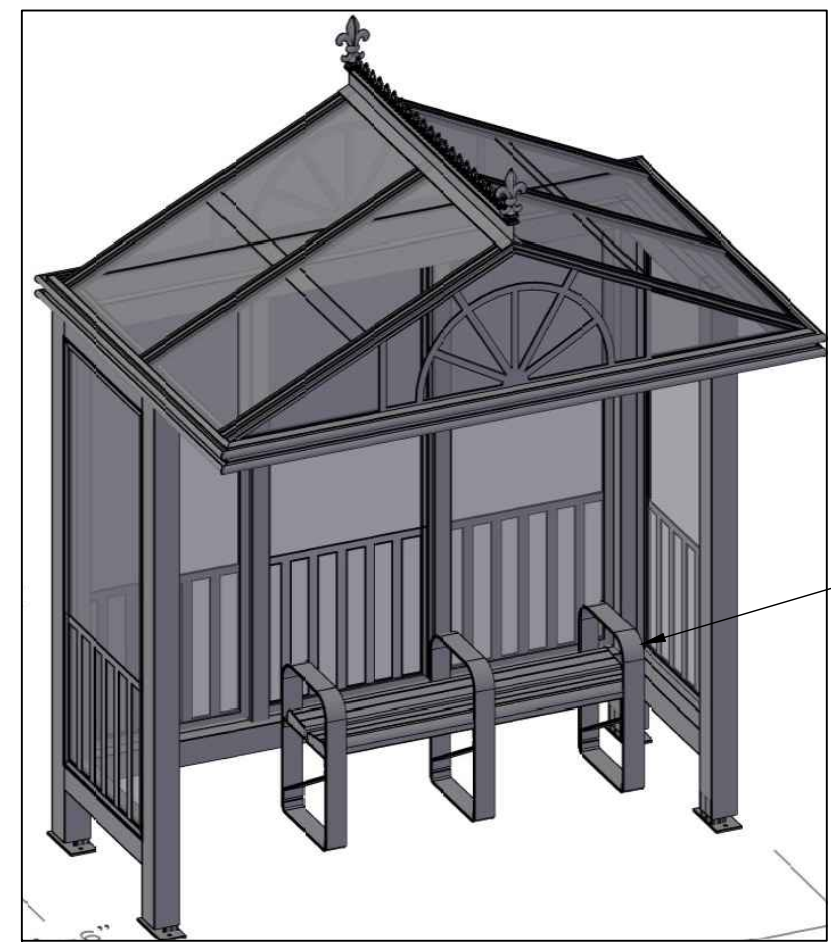
REVISION:	DATE:
1 Public Improvement Req.	July 22, 2024
2 Eliminate Walls, Move Trees	Aug 1, 2024
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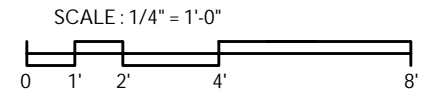
**A-2**  
SITE PLAN



- NOTES ON SHELTER:
1. CLIENT WILL SUPPLY AND DELIVER SHELTER KIT TO JOB SITE.
  2. CONTRACTOR SHALL ASSEMBLE, ERECT AND ANCHOR SHELTER.
  3. ANCHOR COLUMN BASES ACCORDING TO MANUFACTURE'S INSTRUCTIONS.
  4. PROPOSED MODEL IS HANDI-HUT, VICTORIA #10.
  5. PRIMARY MATERIAL IS ALUMINUM 6063-T52
  6. WINDSHIELDS AND ROOF PANELS ARE 1/4" CLEAR MONOLITHIC POLYCARBONATE PLASTIC.
  7. WEBSITE: www.handi-hut.com



BENCH WILL BE AS SUPPLIED BY BENCH FACTORY, CLASSIC PARK BENCH WITH CENTER ARM REST AND RECYCLED PLASTIC SLATS. BENCH WILL BE 6' LONG NOMINAL. CLIENT WILL SUPPLY AND DELIVER TO JOB SITE. CLIENT SHALL INSTALL. SEE GENERAL NOTES.



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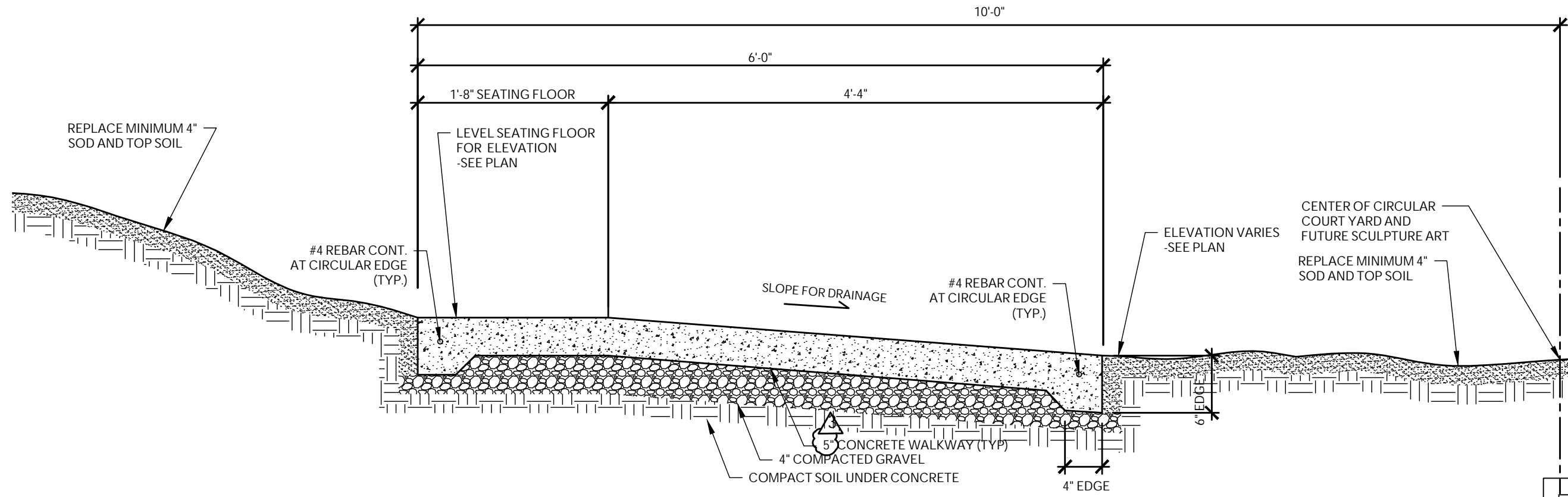
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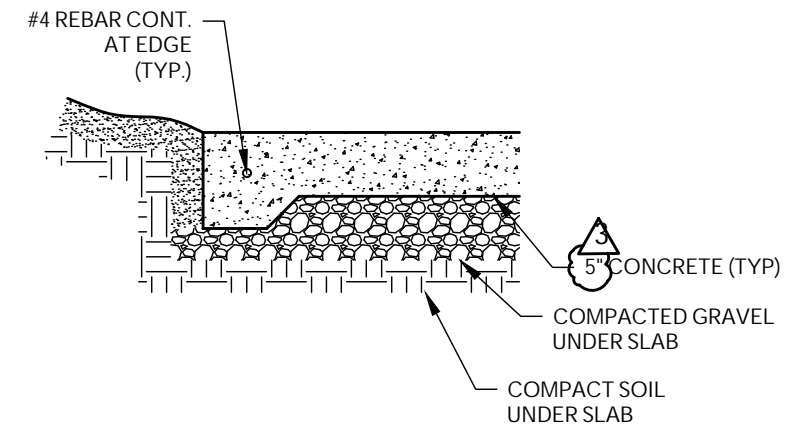
REVISION:	DATE
1 PREFAB SHELTER	July 22, 2024
2 Anchor Bolt Clarification.	Aug 1, 2024
3 Increased Slab 4" to 6"	Aug 21, 2024

JOB NO: 24.02  
DATE: July 8, 2024  
DRWN: RLW  
CHKD: BJD

**A-3**  
SHELTER  
PLAN AND ELEVATIONS

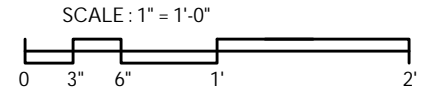


8 SECTION - CIRCLE COURT SLAB  
SCALE: 1" = 1'-0"



9 SECTION - SLAB EDGE  
SCALE: 1" = 1'-0"

REV 2, AUG 1, 2024, ELIMINATES  
RETAINING WALLS, WALL FOOTINGS,  
AND WALL DRAIN PIPES.



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REVISION:	DATE:
1 Issue Public Improve. Permit	July 22, 2024
2 Eliminate retaining wall	Aug 1, 2024
3 Increased slab 4" to 5"	Aug 21, 2024

JOB NO: 24.02  
DATE: July 08, 2024  
DRWN: RLW  
CHKD: BJK

A-4  
CONCRETE SLAB  
DETAILS