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THE GUND COMPANY

TANK PAD

809 PHILIP DRIVE
WAUKESHA, WI 53186



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MSI GENERAL CORPORATION
W215 E. WISCONSIN AVE.
NASHOTAH, WI 53058
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MILESTONE ISSUE DATES

PRELIMINARY SET:	03/18/2026
BUDGET SET:	
LOCAL DESIGN REVIEW SET:	
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PERMIT SET:	04/28/2026
CONSTRUCTION SET:	
RECORD DRAWING SET:	

REVISIONS:



PROJECT INFORMATION	
CODE SUMMARY AND BUILDING INFORMATION	
APPLICABLE CODES AND STANDARDS	
BUILDING CODE:	2021 INTERNATIONAL BUILDING CODE (IBC)
PLUMBING CODE:	2024 WISCONSIN PLUMBING CODE - SPS 381 TO 387
MECHANICAL CODE:	2021 INTERNATIONAL MECHANICAL CODE (IMC)
ENERGY CODE:	2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
ELECTRICAL CODE:	2017 NATIONAL ELECTRICAL CODE (NEC)
FIRE CODE:	2021 INTERNATIONAL FIRE CODE (IFC)
ACCESSIBILITY CODE:	2017 ICC A117.1
WISCONSIN AMENDMENTS:	(SPS CHAPTERS 316, 361-367)
PROJECT DESCRIPTION	EXISTING BUILDING PREVIOUSLY DESIGNED TO XXXX1 CODES
PROJECT AREA	
SITE PLAN	GROSS BUILDING 3,110 SF
PROJECT AREA	3,110 SF
OTHER	

VICINITY MAP

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OVER
65
YEARS OF
DESIGN
EXCELLENCE

ENGINEER SEAL

SHEET INDEX

SHEET NUMBER	SHEET NAME	REVISION DESCRIPTION	REVISION DATE
GENERAL			
G-001	COVER SHEET		
CIVIL			
C-100	TANK PAD GRADING PLAN		
STRUCTURAL			
S-001	STRUCTURAL GENERAL NOTES		
S-101	FOUNDATION PLAN		

PROJECT NAME
THE GUND COMPANY

PROJECT DESCRIPTION
TANK PAD

STREET ADDRESS
809 PHILIP DRIVE

CITY / STATE / ZIP
WAUKESHA, WI 53186

ALL WORK TO BE COMPLETED AS SHOWN, AND IN ACCORDANCE WITH THE LATEST EDITION OF THE MSI GENERAL MASTER SPECIFICATION

PROJECT ARCHITECT BJZ	STRUCTURAL ENGINEER DJS	LANDSCAPE DESIGN XXX
DESIGN ARCHITECT XXX	CIVIL ENGINEER PJS	REVIEWED BY XXX

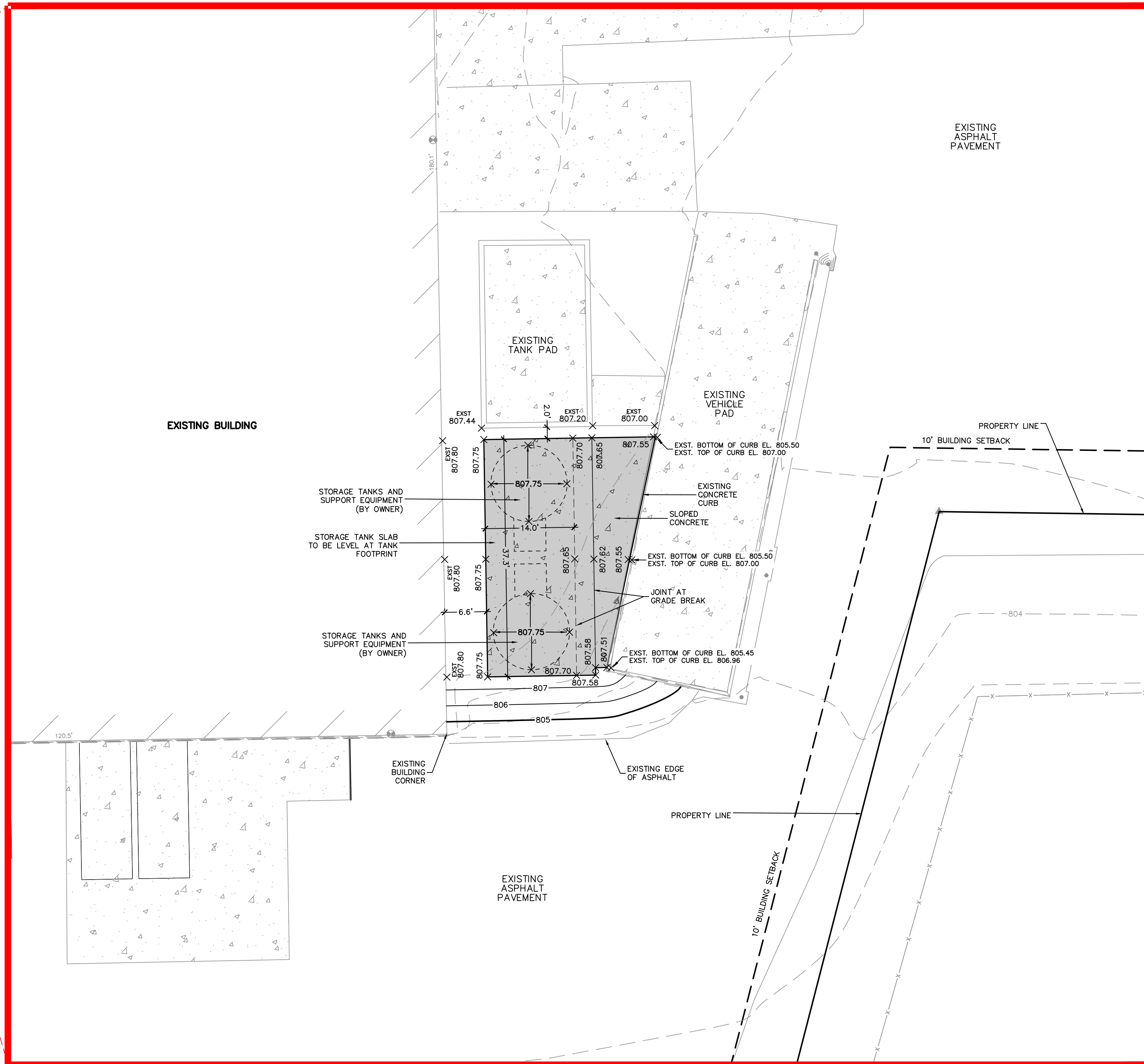
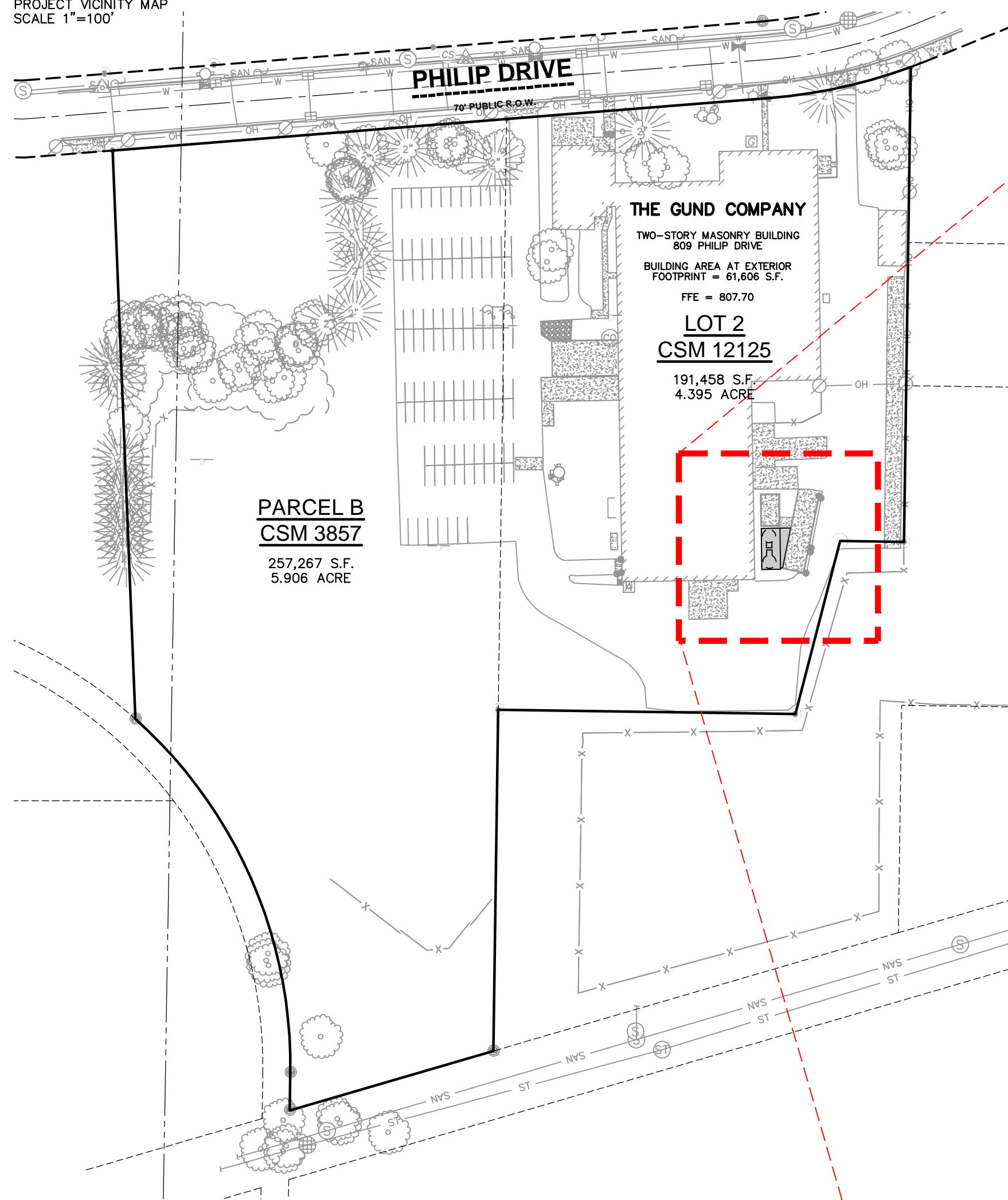
SHEET TITLE:
COVER SHEET

SHEET NUMBER:
G-001

PROJECT NUMBER:
4654

P13854

PROJECT VICINITY MAP
SCALE 1"=100'

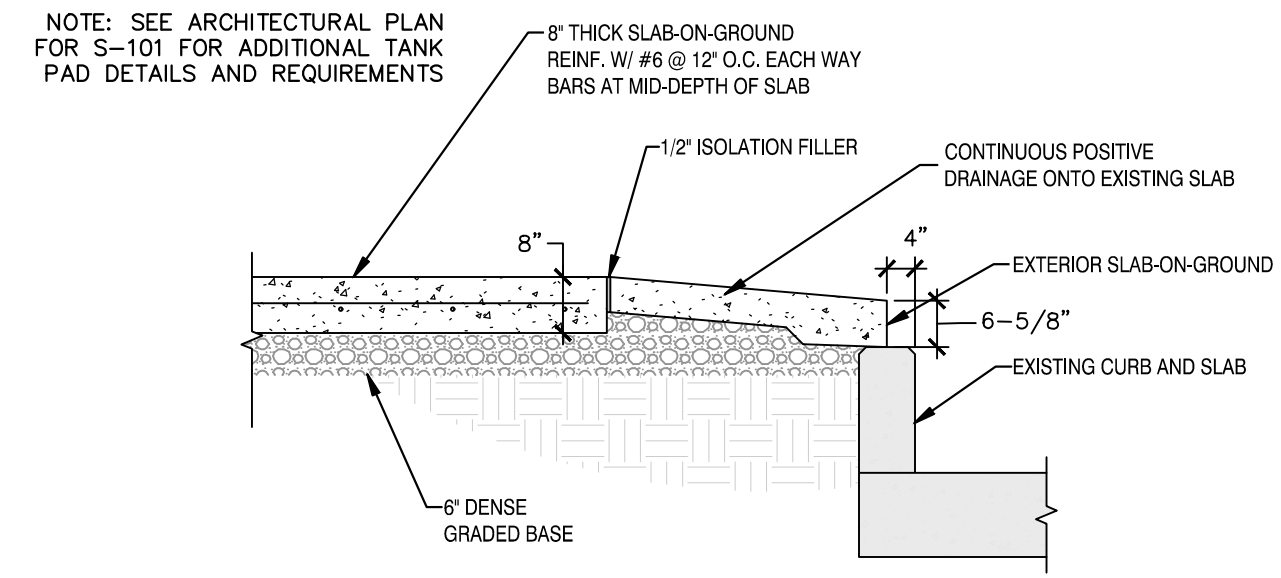


GENERAL NOTES

- REFER TO THE EXISTING CONDITIONS SURVEY FOR EXISTING CONDITIONS NOTES AND LEGENDS.
- ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). BENCHMARK IS A CONCRETE MONUMENT WITH A BRASS CAP MARKING THE NORTHWEST CORNER OF SECTION 10, T6N, R19E, ELEVATION = 805.31'
- EXISTING GRADE SPOT ELEVATIONS SHOWN FOR INFORMATIONAL PURPOSES. DURING CONSTRUCTION MATCH EXISTING GRADES AT CONSTRUCTION LIMITS.
- JSD SHALL BE HELD HARMLESS AND DOES NOT WARRANT ANY DEVIATIONS BY THE OWNER/CONTRACTOR FROM THE APPROVED CONSTRUCTION PLANS THAT MAY RESULT IN DISCIPLINARY ACTIONS BY ANY OR ALL REGULATORY AGENCIES.
- CONTRACTOR SHALL RESTORE ALL BUILDINGS, PAVEMENT, PIPES, SLOPES, AND STRUCTURES DAMAGED BY THE CONTRACTOR TO PRE-EXISTING OR BETTER CONDITIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY DURING THE CONSTRUCTION OF THESE IMPROVEMENTS.
- ANY REFERENCES TO THE TERMS OR ENTITY ABBREVIATIONS IN THE FOLLOWING NOTES AND SPECIFICATIONS SHALL BE UNDERSTOOD AS FOLLOWS:
 - "JURISDICTION" - THE LOCAL GOVERNMENTAL AGENCY (I.E., CITY, VILLAGE, TOWN, COUNTY, STATE, OR UTILITY SERVICE PROVIDER) HAVING AUTHORITY.
 - "STATE HIGHWAY SPECIFICATIONS" - STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, CURRENT EDITION AND SUPPLEMENTS
 - "STANDARD SPECIFICATIONS" - STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, CURRENT EDITION AND SUPPLEMENTS
 - WISCONSIN DEPARTMENT OF TRANSPORTATION - "WISDOT"
 - WISCONSIN DEPARTMENT OF NATURAL RESOURCES - "WDNR"
 - DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES - "DSPS" OR "SPS"

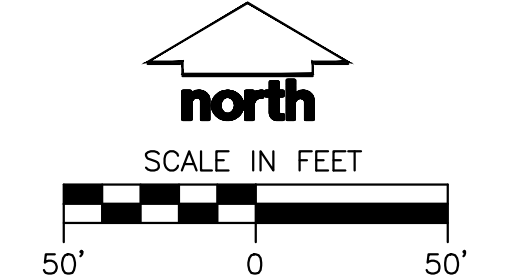
GRADING AND EARTHWORK NOTES

- ALL PROPOSED GRADES SHOWN ARE FINISHED GRADES. CONTRACTOR SHALL VERIFY ALL GRADES, MAKE SURE ALL AREAS DRAIN PROPERLY, AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
- ALL EXCAVATIONS AND FILLS SHALL BE TO THE ELEVATIONS SHOWN ON THE DRAWINGS AND SHALL INCLUDE SUFFICIENT DEPTHS FOR PLACEMENT OF FILL MATERIALS, BASE COURSES, PAVEMENTS, TOPSOIL, AND OTHER MATERIALS TO THE SPECIFIED DEPTHS.
- PRIOR TO ALL EXCAVATION OR FILLING OPERATIONS, CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL TOPSOIL FROM PROPOSED LOCATIONS OF BUILDINGS, STRUCTURES, ROADS, WALKS, OTHER PAVED AREAS, STORM WATER FACILITIES OR WITHIN THE GRADING EXTENTS WHERE EXISTING GRADES ARE ALTERED BY MORE THAN 3". REMOVED OR STRIPPED TOPSOIL SHALL BE SEGREGATED AND STOCKPILED ON-SITE IN AN APPROPRIATE LOCATION TO BE RESPREAD AS SPECIFIED ON THE DRAWINGS.
- CONTRACTOR SHALL NOT PLACE ANY FILL OR OTHER MATERIALS ON AREAS THAT HAVE NOT HAD TOPSOIL REMOVED, ARE FROZEN, SATURATED, OR YIELDING. CONTRACTOR SHALL NOTIFY OWNER OR ENGINEER IF SUBGRADE CONDITIONS ARE NOT SUITABLE FOR SUPPORTING FILL AND A FURTHER DETERMINATION SHALL BE PROVIDED BY OWNER OR ENGINEER.
- PRIOR TO PLACEMENT OF BASE COURSE MATERIALS IN PAVEMENT OR HARD SURFACE AREAS OR CONDUCTING EXCAVATION BELOW SUBGRADE (EBS) ELEVATIONS, CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER TO CONDUCT AN INSPECTION OF THE PREPARED SUBGRADE AND PROOF-ROLLING. PROOF-ROLLING SHALL BE CONDUCTED BY THE CONTRACTOR IN WITNESS OF THE OWNER AND ENGINEER. OWNER AND ENGINEER SHALL DETERMINE IF AREAS OF EBS ARE REQUIRED. EBS SHALL BE COMPLETED BY THE CONTRACTOR PER THE DIRECTION OF THE OWNER AND ENGINEER.



TANK SLAB DETAIL
NOT TO SCALE

TANK PAD GRADING PLAN INSET



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CREATE THE VISION TELL THE STORY
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P. 262.513.0666

PROJECT NAME:
THE GUND COMPANY

PROJECT DESCRIPTION:
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809 PHILIP DRIVE

CITY / STATE / ZIP:
WAUKESHA, WI 53186

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PROJECT APPROVED:	STRUCTURAL APPROVED:	LANDSCAPE PERSON:
BIZ	DJS	XXX
DESIGN APPROVED:	CIVIL APPROVED:	REVIEWED BY:
XXX	PJD	XXX

SHEET TITLE:
TANK PAD GRADING PLAN

SHEET NUMBER:
C-100

PROJECT NUMBER:
4654

P13854

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LEADERS

ENGINEERS

CONTRACTORS

ARCHITECTS

CONCRETE REINFORCEMENT NOTES
(MSI GENERAL MASTER SPECIFICATION: DIVISION 3):

- ALL CONCRETE AND REINFORCING STEEL SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 301 'SPECIFICATION FOR STRUCTURAL CONCRETE FOR BUILDINGS', ACI 315 'DETAILS AND DETAILING OF CONCRETE REINFORCEMENT', AND CRSI'S MANUAL OF STANDARD PRACTICE.
- CONTRACTOR SHALL ELECTRONICALLY SUBMIT STEEL REBAR SHOP DRAWINGS FOR APPROVAL PRIOR TO CONSTRUCTION. CONTRACTOR SHALL REVIEW AND STAMP ALL SHOP DRAWINGS BEFORE SUBMITTING TO THE ARCHITECT.
- ALL DIMENSIONS SHOWING THE LOCATION OF REINFORCING STEEL NOT NOTED AS 'CLEAR' OR 'CLR.' ARE TO CENTER OF STEEL. PROVIDE THE FOLLOWING CLEAR COVER DISTANCES FOR REINFORCEMENT IN CONCRETE:
 - A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"
 - B. CONCRETE EXPOSED TO EARTH OR WEATHER
 - a. #3 - #6 BARS 1 1/2"
 - b. #6 - #8 BARS 2"
 - C. CONCRETE WALL NOT EXPOSED TO EARTH OR WEATHER
 - a. WALLS - #3 THRU #11 BARS 3/4"
 - b. WALLS - #14 THRU #18 BARS 1 1/2"
 - c. STRUCTURAL SLABS - TOP, BOTTOM 1"
 - d. JOIST TIES AND MAIN REINFORCING - TOP, BOTTOM, SIDES 1 1/2"
 - e. BEAM TIES - TOP, BOTTOM 1 1/2"
 - f. BEAM MAIN REINFORCING - TOP, BOTTOM, SIDES 2"
 - g. COLUMN TIES 1 1/2"
 - h. COLUMN MAIN REINFORCING 2"
- WELDING OF REINFORCING STEEL SHALL NOT BE PERMITTED FOR NON-WELDABLE REBAR NOR WITHOUT THE CONSENT OF THE STRUCTURAL ENGINEER.
- CONTRACTOR SHALL PROVIDE SUITABLE WIRE SPACERS, CHAIRS, TIES, ETC. FOR SUPPORTING REINFORCING STEEL IN THE PROPER POSITION WHILE PLACING CONCRETE. ALL BAR SUPPORTS IN AREAS WHERE CONCRETE IS CAST AGAINST EARTH SHALL HAVE PLASTIC FEET. LIFTING BARS WITH HOOKS IS NOT PERMITTED. STOCKING OF REINFORCING BARS IS NOT PERMITTED.
- WELDED WIRE REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF ASTM A185. LAPS IN WELDED WIRE FABRIC SHALL BE MADE SUCH THAT THE OVERLAP, MEASURED BETWEEN OUTERMOST CROSS WIRE OF EACH FABRIC SHEET, IS NOT LESS THAN THE SPACING OF CROSS WIRES PLUS 2 INCHES.
- MINIMUM REINFORCING IN CONCRETE SLABS ON GRADE (5 INCHES THICK OR LESS), AND SLABS OVER STEEL DECK, SHALL BE 6 x 6 - W1.4 x W1.4 WWF, UNLESS NOTED OTHERWISE. PLACE REINFORCING AT THE APPROXIMATE CENTERLINE OF THE CONCRETE DEPTH, OR OVER THE TOP FLUTE OF THE DECK. PROVIDE 2-#5 x 9-0" RE-ENTRANT BARS AT ALL INSIDE CORNERS, TEE JOINT SAW-CUTS, DOCK LEVELERS, ETC. WELDED WIRE SHALL BE SUPPORTED BY CHAIRS, BOLSTERS, OR OTHER APPROVED SUPPORTING DEVICES. "PULLING-UP" OF MESH AFTER CONCRETE HAS BEEN PLACED IS PROHIBITED.

CONCRETE REINFORCEMENT NOTES (CONT.)

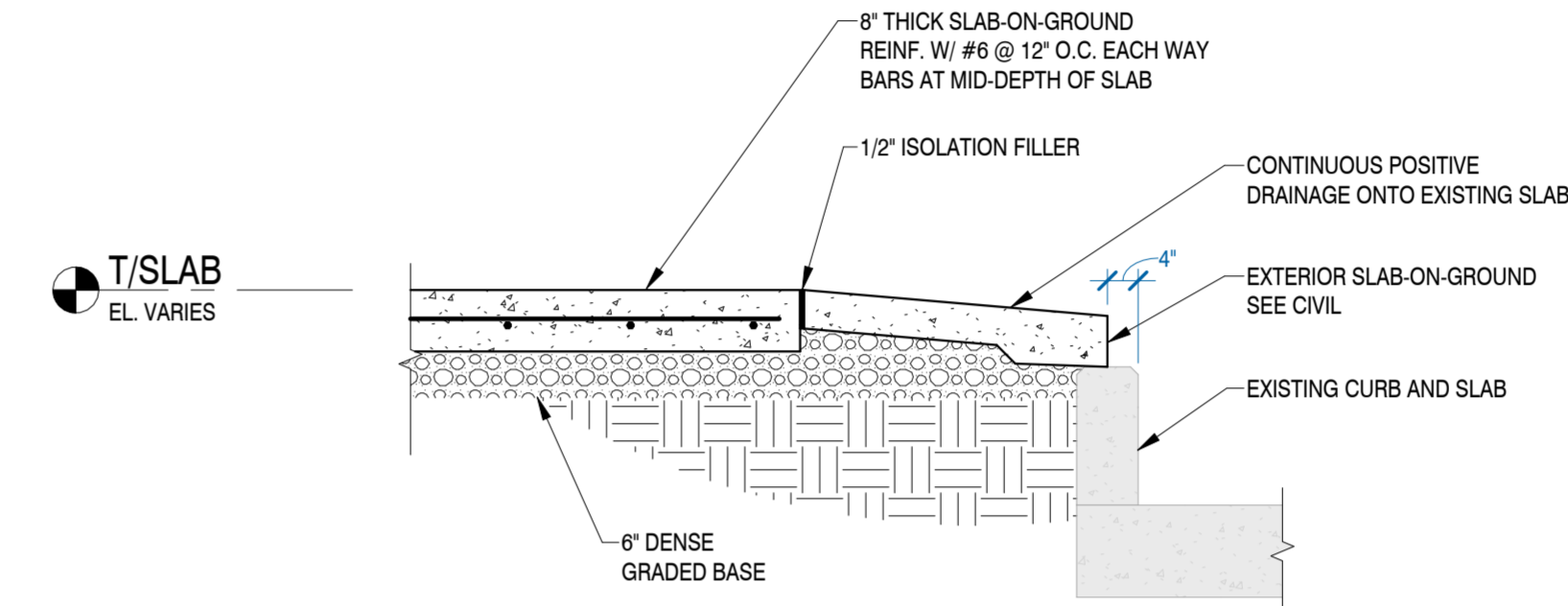
- MACROSYNTHETIC FIBER REINFORCING MAY BE USED WHERE SPECIFICALLY NOTED ON PLANS AND SHALL BE FORTA FERRO MACRO FIBER OR APPROVED EQUAL. FIBERS SHALL COMPLY WITH ASTM C1116, TYPE III, 1 1/2" TO 2 1/2" LONG, AND SHALL BE MIXED WITH CONCRETE AND PLACED PER MANUFACTURERS RECOMMENDATIONS AT A MIN. OF 3.0 PCY, UNLESS NOTED OTHERWISE. FIBERS SHALL NOT BE USED AS A SUBSTITUTE FOR STEEL MESH FOR CONCRETE SLABS ON METAL DECK.
- REFER TO REINFORCEMENT DEVELOPMENT AND LAP SPlice SCHEDULE FOR LAP SPLICES IN REINFORCING STEEL. ALL LAPS IN REINFORCING STEEL SHALL BE CLASS 'B' LAP SPLICES UNLESS NOTED OTHERWISE. AT CONSTRUCTION JOINTS, CONTINUOUS BARS SHALL BE LAP SPliced WITH A CLASS 'B' LAP SPLICES. ALL OTHER BARS EXTENDING THROUGH THE JOINT SHALL BE FULLY DEVELOPED EACH SIDE OF JOINT, UNLESS NOTED OTHERWISE. AT WALLS AND FOOTINGS, PROVIDE BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT ALL CORNERS AND INTERSECTIONS. VERTICAL WALL BARS SHALL BE SPliced AT OR NEAR FLOOR LINES.
- REINFORCING BAR MAY BE BENT ONCE, AND THE BEND SHALL BE MADE COLD.
- ALL HOOKS IN REINFORCING STEEL SHALL BE STANDARD HOOKS, UNLESS DETAILED OTHERWISE.
- ALL REINFORCING SHALL BE CLEAN OF RUST, GREASE, SOIL OR OTHER MATERIALS THAT MAY IMPAIR BOND.
- REINFORCING BAR SPACING SHOWN ON PLANS ARE MAX. ON CENTER DIMENSIONS. DOWEL ALL VERT. REINFORCING TO FOUNDATION. SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING CONCRETE. MIN. CLEAR SPACING BETWEEN PARALLEL REINFORCEMENT SHALL BE THE LARGER OF 1-1/2 TIMES NOMINAL BAR DIA. OR 1-1/3 TIMES MAX. AGGREGATE SIZE OR 1-1/2". CLEAR SPACING LIMITATION APPLIES ALSO TO CLEAR DISTANCE BETWEEN A CONTACT LAP SPlice AND ADJACENT SPLICES OR BARS.
- SPREAD BARS AROUND SMALL OPENINGS AND SLEEVES IN SLABS AND WALLS WHERE POSSIBLE AND WHERE BAR SPACING WILL NOT EXCEED 1.5 TIMES THE NORMAL SPACING. DISCONTINUE BARS AT LARGE OPENINGS AND PROVIDE AN AREA OF REINFORCEMENT EQUAL TO THE INTERRUPTED REINFORCEMENT EACH SIDE OF THE OPENING AND LAP BARS (CLASS B LAP SPlice). PROVIDE (2) #5 BARS AROUND ALL OPENINGS AND (2) #5 DIAGONAL BARS AT ALL OPENING AND RE-ENTRANT CORNERS, BARS SHALL EXTEND A MINIMUM OF 24" PAST OPENING.

BAR SIZE	UNCOATED TENSION DEVELOPMENT & CLASS "B" LAP SPlice SCHEDULE (f _c = 4,000 PSI)							
	TENSION DEVELOPMENT LENGTH (in.)				CLASS "B" TENSION LAP LENGTH (in.)			
	CLEAR COVER OR 1/2 O.C. SPACING				CLEAR COVER OR 1/2 O.C. SPACING			
#3	12	12	12	12	12	12	12	12
#4	15	12	12	12	19	15	15	15
#5	21	15	15	15	28	19	19	19
#6	29	18	18	18	37	23	23	23
#7	46	29	25	25	60	37	33	33
#8	57	36	29	29	74	47	37	37
#9	69	44	36	33	90	58	46	42
#10	83	54	44	37	108	70	57	47
#11	98	65	53	41	127	84	68	53

UNCOATED TENSION DEVELOPMENT & CLASS "B" LAP SPlice SCHEDULE NOTES:

- SCHEDULED VALUES ARE BASED ON GRADE 80 REINFORCEMENT BARS AND NORMAL WEIGHT CONCRETE
- FOR TOP BARS (ANY HORIZONTAL BARS PLACED SO THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCING), MULTIPLY TABULATED VALUES BY 1.3.
- FOR LIGHTWEIGHT CONCRETE, MULTIPLY TABULATED VALUES BY 1.33.
- THIS SCHEDULE IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR AND IS NOT INTENDED TO COVER ALL SITUATIONS. SHOP DRAWINGS SHALL CLEARLY INDICATE ALL REQUIRED LAP AND DEVELOPMENT LENGTHS.
- CLEAR COVER IS MEASURED FROM EXTERIOR FACE OF CONCRETE TO OUTERMOST EDGE OF REINFORCEMENT. O.C. SPACING IS MEASURED FROM CENTER TO CENTER OF REINFORCEMENT. THE MINIMUM OF THE TWO VALUES SHOULD BE USED. (i.e. A CLEAR COVER OF 3" AND AN O.C. REINFORCEMENT SPACING OF 4" WOULD USE THE 2" COLUMN IN THIS TABLE).

SHEET NOTES - FOUNDATION PLAN(S)	
NOTE: THESE NOTES APPLY ONLY TO FOUNDATION PLAN SHEETS	
NO.	DESCRIPTION
01	LEVEL SLAB AT TANK FOOTPRINT. BEYOND TANK FOOTPRINT, SLOPE SLAB AWAY FROM TANK(S) MINIMUM 1/8" PER FOOT TOWARDS APRON. MAINTAIN SLAB THICKNESS THROUGHOUT. CONCRETE APRON BEYOND TANK PAD SHALL BE 5" THICK SLAB REINFORCED WITH 6x6 WWF AT MID-DEPTH OF SLAB.

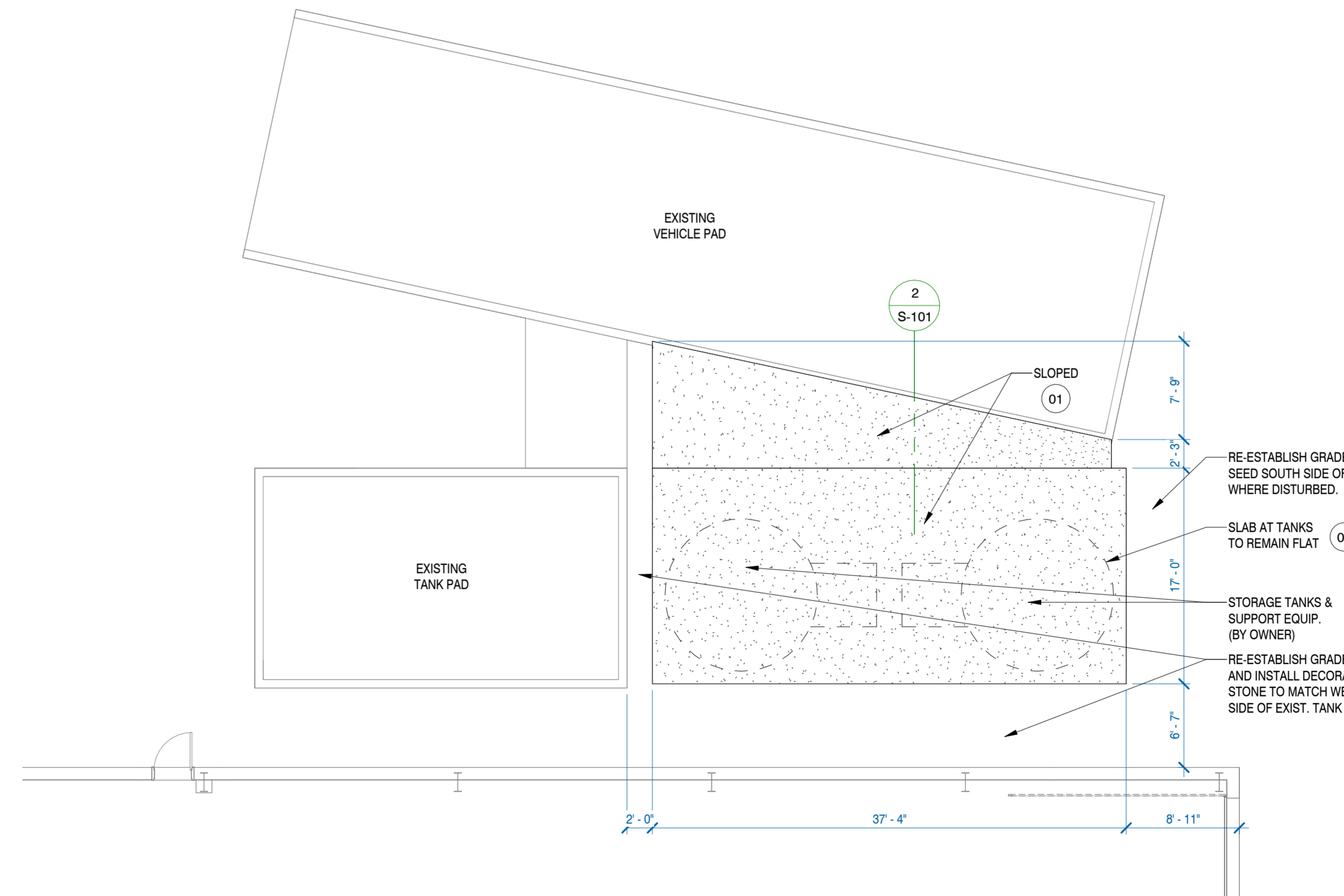


2 TANK PAD SECTION
1/2" = 1'-0"

MATERIAL STRENGTHS AND PROPERTIES SCHEDULE										
CONCRETE MATERIAL STRENGTHS AND PROPERTIES (M16)										
TYPE OF COMPONENT	COMPRESSIVE STRENGTH (PSI) (ASTM C89) ⁽¹⁴⁾	DENSITY (PCF) ⁽¹⁵⁾	EXPOSURE CATEGORIES ⁽¹²⁾⁽¹⁶⁾⁽¹⁷⁾				MIN. LBS OF CEMENT PER CY ⁽¹⁸⁾	MAXIMUM AGGREGATE SIZE (in.)	AIR CONTENT	SLUMP LIMIT (in.)
			F	S	W	C				
FOOTINGS ⁽⁷⁾	3,000	145				470	1 1/2	NONE	3 1/2 ± 1	
FOUNDATION WALLS AND FROST WALLS ⁽¹⁾⁽⁸⁾⁽⁹⁾	4,000	145	F1			540	3/4	5% ± 1 1/2%	3 1/2 ± 1	
GRADE BEAMS ⁽¹⁾⁽⁸⁾⁽⁹⁾	4,000	145	F1			540	3/4	5% ± 1 1/2%	3 1/2 ± 1	
INTERIOR WALLS AND PIERS ⁽⁷⁾	4,000	145				494	3/4	NONE	3 1/2 ± 1	
EXTERIOR WALLS AND PIERS ⁽¹⁾⁽⁸⁾⁽⁹⁾	4,500	145	F2			540	3/4	6% ± 1 1/2%	3 1/2 ± 1	
INTERIOR NON-PARKING SLAB-ON-GROUND ⁽⁴⁾⁽⁷⁾⁽¹¹⁾	4,000	145				540	1 ⁽⁸⁾	NONE	3 1/2 ± 1	
EXTERIOR SLAB-ON-GROUND ⁽¹⁾⁽⁸⁾⁽⁹⁾	5,000	145	F3		C2	564	3/4	6% ± 1 1/2%	3 1/2 ± 1	
INTERIOR CONCRETE TOPPING AND STAIR LANDINGS/TREADS ⁽⁷⁾	4,000	145				540	3/4	NONE	3 1/2 ± 1 1/2	
SLABS ON METAL DECK ⁽⁷⁾	4,000	145				540	3/4	NONE	3 1/2 ± 1 1/2	
LEAN CONCRETE (SLURRY) ⁽¹⁾	1,000	145				150	3/8	NONE	5 ± 1	
MISCELLANEOUS NON-SCHEDULED INTERIOR CONCRETE ⁽¹⁾	3,000	145				470	3/4	NONE	3 1/2 ± 1 1/2	
REINFORCING STEEL MATERIAL STRENGTHS AND PROPERTIES										
TYPE OF COMPONENT	ASTM DESIGNATION	YIELD STRESS F _y (KSI)	REMARKS							
DEFORMED	A615, Gr. 60	60								
WELDABLE	A706, Gr. 60	60								
WELDED WIRE REINFORCEMENT, FLAT SHEETS	A185	60								
STUD RAIL ASSEMBLIES	A1044	-								

CONCRETE MATERIAL STRENGTHS AND PROPERTIES ADDITIONAL NOTES:

- AIR ENTRAINED CONCRETE FOR USE AT EXTERIOR WALLS, EXTERIOR SLABS, STOOPS, WALKS, PLATFORMS, RAMP, STEPS, PORTIONS OF PARKING RAMP AND OTHER CONCRETE EXPOSED TO FREEZING AND THAWING. PROVIDE 5% AIR CONTENT AT ALL EXPOSED CONDITIONS NOT EXPLICITLY INDICATED IN TABLE. TOLERANCE OF AIR CONTENT AS DELIVERED SHALL BE ± 1.5%.
- MAXIMUM WATER - CEMENTITIOUS RATIO BY WEIGHT SHALL BE 0.40.
- MAXIMUM WATER - CEMENTITIOUS RATIO BY WEIGHT SHALL BE 0.45.
- MAXIMUM WATER - CEMENTITIOUS RATIO BY WEIGHT SHALL BE 0.50.
- MAXIMUM WATER - CEMENTITIOUS RATIO BY WEIGHT SHALL BE 0.55.
- MAXIMUM WATER - CEMENTITIOUS RATIO BY WEIGHT SHALL BE DESIGNED WITH THE LOWEST AMOUNT OF CEMENT THAT WILL ACHIEVE THE DESIRED CONCRETE STRENGTH AND DURABILITY. DESIGN MIX WITH THE LARGEST PRACTICAL COARSE AGGREGATE SIZE, AND OPTIMAL COMBINED AGGREGATE GRADATION TO REDUCE WATER DEMAND.
- A MAXIMUM OF 50 PERCENT TOTAL REPLACEMENT OF PORTLAND CEMENT WITH GGFS (GROUND GRANULATED BLAST - FURNACE SLAG) AND FLY ASH AT A 1:1 RATIO, UP TO 350 POUNDS, WITH A MAXIMUM 25 PERCENT FLY ASH. IF FLY ASH IS USED ALONE, LIMIT MAXIMUM REPLACEMENT TO 25 PERCENT.
- A MAXIMUM OF 30 PERCENT TOTAL REPLACEMENT OF PORTLAND CEMENT WITH GGFS (GROUND GRANULATED BLAST - FURNACE SLAG) AND FLY ASH AT A 1:1 RATIO WHERE FREEZE - THAW DURABILITY AND EXPOSURE TO DEICERS IS LIKELY, UP TO 350 POUNDS, WITH A MAXIMUM 25 PERCENT FLY ASH. IF FLY ASH IS USED ALONE, LIMIT MAXIMUM REPLACEMENT TO 25 PERCENT.
- INCREASE AGGREGATE SIZE TO 1 1/2" IF SLAB-ON-GROUND TO BE PLACED BY LASER SCREED.
- MINIMUM AMOUNT OF CEMENTITIOUS MATERIAL IDENTIFIED IN THE MIX PROPORTIONS SHALL APPLY FOR MIXES FOR WHICH FIELD EXPERIENCE OR TRIAL MIXTURE INFORMATION REQUIRED IS NOT PROVIDED.
- MIX SHALL BE DESIGNED SUCH THAT SHRINKAGE SHALL BE LESS THAN OR EQUAL TO 0.040 AFTER 28 DAYS. CONCRETE SUPPLIER SHALL PERFORM SHRINKAGE BEAM TESTING TO VERIFY CONCRETE PERFORMANCE IN ACCORDANCE WITH ASTM C157 AND SUBMIT RESULTS FOR REVIEW.
- CORROSION EXPOSURE SHALL BE F0, S0, W0, AND C0, UNLESS NOTED OTHERWISE IN THE EXPOSURE CATEGORIES COLUMN.
- CONCRETE SUPPLIER AND FINISHER SHALL COORDINATE PROPERTIES OF PROPOSED MIX DESIGN UNDER VARIOUS WEATHER CONDITIONS TO COMPLETE PLACING AND FINISHING OF SLAB PER THE PROJECT REQUIREMENTS AND IN A TIMELY MANNER. APPROVED CHEMICAL ADMIXTURES MAY BE USED TO INCREASE WORKABILITY PROVIDED THE ADMIXTURE-TREATED CONCRETE HAS THE SAME OR LOWER WATER-CEMENT RATIO AND DOES NOT EXHIBIT SEGREGATION POTENTIAL OR EXCESSIVE BLEEDING. IF PROPOSED SLUMP WILL EXCEED 9", PROVIDE DOCUMENTATION OF PAST PERFORMANCE OF MIX DESIGN.
- CONCRETE COMPRESSIVE STRENGTH SHALL BE DETERMINED AT 28 DAYS FOR STRENGTH EQUAL TO OR LESS THAN 6000 PSI, AND AT 56 DAYS FOR STRENGTH GREATER THAN 6000 PSI.
- FOR LIGHTWEIGHT CONCRETE HAVING EQUILIBRIUM DENSITY LESS THAN 145 PCF, LAMBDA (λ) HAS BEEN TAKEN AS 0.75.
- FOR EXPOSURE CATEGORY F3, MAXIMUM PERCENT OF TOTAL CEMENTITIOUS MATERIALS BY MASS AS FOLLOWS:
 - A. FLY ASH OR OTHER POZZOLANS CONFORMING TO ASTM C618: 25%
 - B. SLAG CEMENT CONFORMING TO ASTM C989: 50%
 - C. SILICA FUME CONFORMING TO ASTM C1240: 10%
 - D. TOTAL OF FLY ASH OR OTHER POZZOLANS AND SILICA FUME: 35%
 - E. TOTAL OF FLY ASH OR OTHER POZZOLANS, SLAG CEMENT, AND SILICA FUME: 50%
- FOR EXPOSURE CATEGORIES S1, S2, AND S3, MINERAL FILLERS DERIVED FROM CARBONATE AGGREGATE ARE PROHIBITED. FOR EXPOSURE CLASSES S2 AND S3, DO NOT USE CEMENTITIOUS MATERIALS OTHER THAN PORTLAND CEMENT IN CONCRETE.
- CONCRETE SUPPLIER, IN CONCERT WITH THE GENERAL CONTRACTOR, TO PROVIDE CONCRETE MIX SUCH THAT THE MAXIMUM TEMPERATURE WILL NOT EXCEED 156 DEGREES FAHRENHEIT. LIKEWISE, A THERMAL GRADIENT FROM THE CENTER TO THE EDGE OF THE CONCRETE (PLACEMENT) THAT EXCEEDS 35 DEGREES FAHRENHEIT IS NOT PERMITTED.



1 PLAN VIEW - TANK PAD
1/8" = 1'-0"



DESIGNBUILD

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PERMIT SET:	04/28/2026
CONSTRUCTION SET:	
RECORD DRAWING SET:	
REVISIONS:	



PROJECT NAME
THE GUND COMPANY

PROJECT DESCRIPTION
TANK PAD

STREET ADDRESS
809 PHILIP DRIVE

CITY / STATE / ZIP
WAUKESHA, WI 53186

ALL WORK TO BE COMPLETED AS SHOWN, AND IN ACCORDANCE WITH THE LATEST EDITION OF THE MSI GENERAL MASTER SPECIFICATION

PROJECT ARCHITECT BLZ	STRUCTURAL ENGINEER EJS	LANDSCAPE DESIGN XXX
DESIGN ARCHITECT XXX	CIVIL ENGINEER PJS	REVIEWED BY XXX

SHEET TITLE:
FOUNDATION PLAN

SHEET NUMBER:
S-101

PROJECT NUMBER:
4654

P13854

