

VICINITY MAP

HARRISON CITY PARK IMPROVEMENTS PROJECT CITY OF HARRISON, CLARE COUNTY, MICHIGAN

OWNER

CITY OF HARRISON 2105 SULLIVAN DR. HARRISON, MI 48625 (989) 539-7145



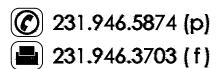
ENGINEER

ENGINEERING SURVEYING **TESTING & OPERATIONS**

> 123 West Front Street Traverse City, MI 49684



http://gfa.tc



PROJECT LOCATION

PERMITS

PERMIT NO. 250023 PERMIT NO. 134784

CITY OF HARRISON LAND USE PERMIT M.M.D.H.D. SEPTIC PERMIT

BUILDING AND M.E.P. PERMITS NOTES:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LOCAL BUILDING PERMITS AND FEES INCLUDING, BUT NOT LIMITED TOO, ELECTRICAL, PLUMBING, BUILDING, MECHANICAL AND WATER AND SEWER CONNECTIONS.

ISSUED 05/27/2025 ISSUED 05/21/2025

PUBLIC AGENCIES

CITY OF HARRISON Telephone: 989.569.7145

CITY OF HARRISON D.P.W. 989.569.7145

CLARE COUNTY ROAD COMMISSION 989.539.2151

CLARE COUNTY SOIL EROSION SEDIMENTATION CONTROL DEPT. Telephone: 989.539.6401

CLARE COUNTY DRAIN COMMISSION Telephone: 989.539.7320

MICHIGAN DEPARTMENT OF TRANSPORTATION (M.D.O.T.) Telephone: 989.731.5090

> CENTRAL MICHIGAN DISTRICT HEALTH DEPT. Telephone: 989.773.5921

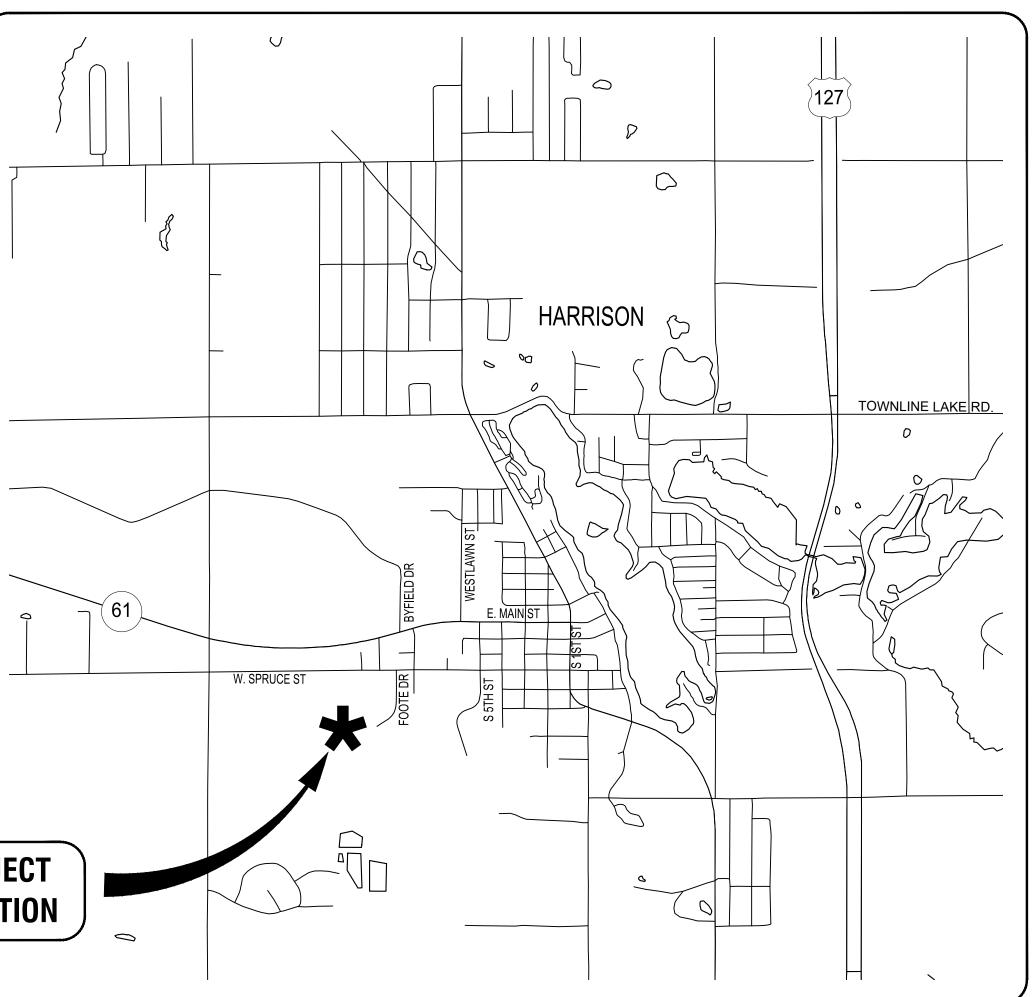
CITY OF HARRISON

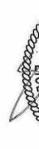
IN COOPERATION WITH THE

Michigan Department of Natural Resources And Michigan Council of Foundations

PLANS OF PROPOSED IMPROVEMENTS

FUNDING PROVIDED BY CMF/DNR SPARK GRANT PARTNERSHIP GRANT NO. CMF-G202443244





W- ga

LOCATION MAP

CITY OF HARRISON, CLARE COUNTY, MICHIGAN SCALE: 1" = 2000'

PUBLIC AGENCIES AND UTILITIES

CONSUMERS ENERGY ELECTRIC Telephone: 800.778.9140

POINT BROADBAND FIBER OPTICS Telephone: 989.283.4302

> DTE ENERGY GAS Telephone: 989.944.4806

UTILITY AGENCIES

AT&T TELEPHONE Telephone: 616.881.2268

POLICE AGENCIES EMERGENCY SERVICE: 911 City of Harrison Sheriff: Telephone: 989.539.7166 Clare County Sheriff: Telephone: 989.539.7166 Clare County Police Department: Telephone: 989.386.2121 Michigan State Police: Telephone: 989.588.2440

SHEET INDEX

- COVER SHEET
- LEGENDS & NOTES
- EXISTING CONDITIONS AND DEMOLITION PLAN
- SITE PLAN
- **GRADING AND UTILITY PLAN**
- PARKING AREA DETAILS
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- CONSTRUCTION DETAILS
- WATER/SEPTIC/SESC DETAILS
- PREFABRICATED BUILDING AND FEATURES DETAILS
- LANDSCAPE SITE PLAN (BY: SRP DESIGN STUDIO)
- LANDSCAPE DETAILS (BY: SRP DESIGN STUDIO)
- LANDSCAPE DETAILS (BY: SRP DESIGN STUDIO) 13

ISSUED: 6-6-2025 (FOR BIDS)

PREPARED UNDER THE SUPERVISION OF:



SHANE GAMRAT, P.E.	-		
•			
GOURDIE FRASER			
REGISTERED PROFESSIONAL	ENGINEER	No.	6201311874



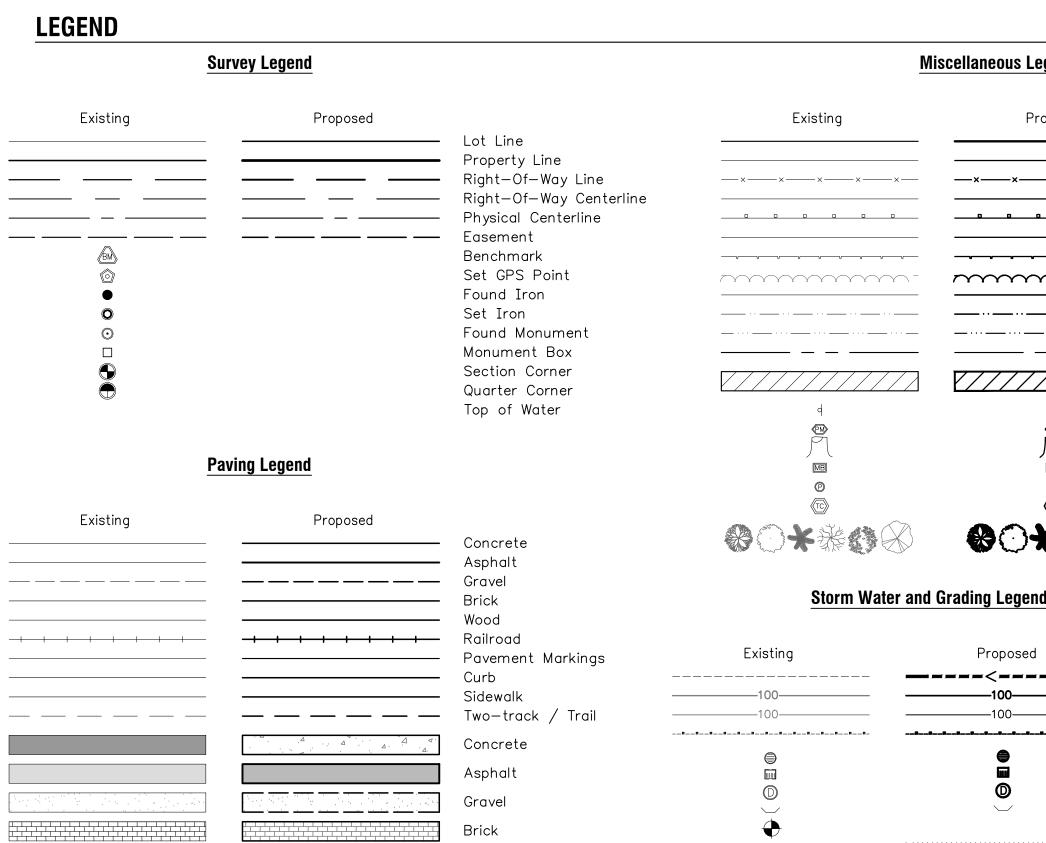
Know what's **below.** Call before you dig.

EMERGENCY SERVICES

EMERGENCY CALLS 911

EMERGENCY AMBULANCE SERVICE 911

MISS DIG Telephone: 1.800.482.7171



Electric & Gas Legend

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- 1. EXPANSION JOINT FILLER, SAWED & SEALED CONTRACTION JOINTS AND HOOK-BOLTS SHALL BE INCLUDED IN THE CONCRETE PAVEMENT.
- 2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT PLACED CONCRETE FROM VANDALISM, TRAFFIC, OTHER MARKINGS OR DAMAGE. CONTRACTOR SHALL TAKE SUCH PRECAUTIONS AS ARE NECESSARY TO PROTECT THE CONCRETE FROM DAMAGE CAUSED BY RAIN. IF CONCRETE IS BEING POURED WHEN RAIN COMMENCES, THE CONTRACTOR SHALL STOP POURING IMMEDIATELY AND COVER ALL CONCRETE PLACED DURING THAT WORKING DAY.
- 3. ALL PAVING AND CONCRETE OPERATIONS SHALL BE CONDUCTED IN ACCORDANCE WITH THE 2020 MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.

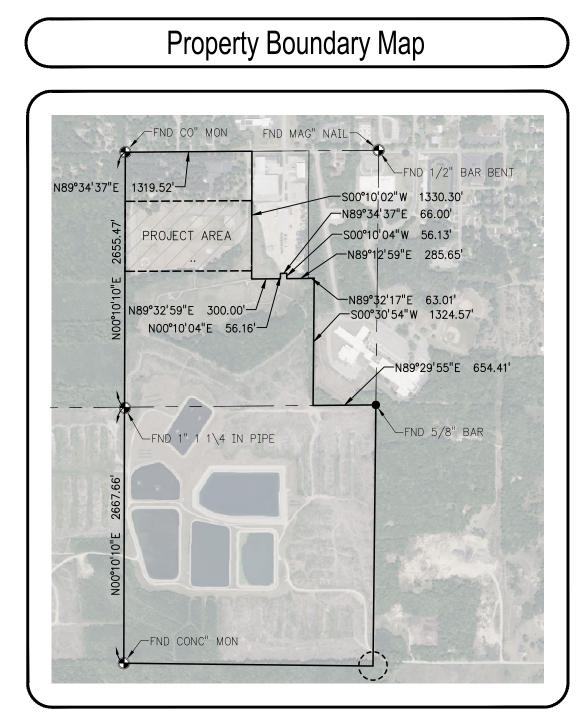
- 6. ALL CONCRETE JOINTS ARE TO BE TOOLED.
- 7. DAMAGED CONCRETE OR ASPHALT NOT CALLED FOR REMOVAL WILL BE REMOVED AND REPLACED AT NO CORRECTION OF THE DAMAGED CONCRETE OR ASPHALT.

	Proposed	
		Concr Aspha
		Gravel
· · · · ·		Brick Wood Railro Paven Curb Sidewa Two-1
		Concr
		Aspha
		Gravel
		Brick

JN 24318	MI	SCELLANEOUS QUANTITIES
QUANTITY	UNIT	PAY ITEM
1	LSUM	MOBILIZATION, MAX 5%
1	LSUM	SITE EXCAVATION & GRADING

NOTES:

1. THESE ITEMS OF WORK SHALL BE DONE AS THEY APPLY THROUGHOUT THE PROJECT. SEVERAL ITEMS ARE NOT DETAILED OR INCLUDED ON THE PLANS. 2. SITE EXCAVATION AND GRADING SHALL INCLUDE ALL SITE PREPARATION INCLUDING, BUT NOT LIMITED TO, EXCAVATION, STRIPPING AND STOCKPILING TOPSOIL, MACHINE GRADING, EARTHWORK, PREPARING SUBGRADE AND SUBBASE MATERIAL, AND GEOTEXTILE FABRIC WHERE SHOWN ON THE PLANS. SITE EXCAVATION & GRADING SHALL FURTHER INCLUDE SUBGRADE UNDERCUTTING TO REMOVE ORGANIC MATERIAL IN ALL FOUNDATION AND PROPOSED CONCRETE LOCATIONS, AND BACKFILL WITH MDOT CLASS II SAND, IF REQUIRED.



PROPERTY TAX DESCRIPTION T19N R4W SEC 29 . W 1/2 OF NE 1/4 & W 594 FT OF NE 1/4 OF NE 1/4 & W 1/2 OF SE 1/4 OF NE 1/4 & SE 1/4 EXC MUNICIPAL INDUSTRIAL PARK & EXC FOOTE DR

Miscellaneous Legend

Proposed
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### Building Minor Building Structure Fence Rip-Rap Guardrail Sign Sheet Pile Trees / Brush Landscaping Edge of Water Ditch Wetlands Building Sign

Parking Meter Stump Mailbox Post Tank Cover Trees (As Noted)

Storm Sewer / Culvert

Major Contour

Minor Contour

Storm Manhole

End Section

Soil Boring

Round Catch Basin

Square Catch Basin

Clearing & Grubbing Limits

Silt Fence

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oposed	
GAS	Gas Main
	Pipeline
OHE	Overhead
UGE	Undergrou
онт	Overhead
UGT	Undergrou
CATV	Cable Tele
Fopt	Fiber Opti
•	Gas Meter
•	Electric M
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<b>.</b>	Light
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Pipeline
Overhead Electric
Underground Electric
Overhead Telephone
Underground Telephone
Cable Television
Fiber Optic
Gas Meter
Electric Meter
Utility Pole
Guy Wire
Satellite Dish
Light
Fiber Optic Marker
Light Pole
Guy Pole
Electric Manhole
Telephone Manhole
Monitor Well
Miss Dig Flag



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4. WHERE ENCOUNTERED IN THE FIELD, UNDERCUT UNSUITABLE AREAS A MINIMUM OF 12 INCHES AND REPLACE WITH 1"X3" CRUSHED CONCRETE ON GEOTEXTILE SEPERATOR OR IN ACCORDANCE WITH SECTION 910 OF THE MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, 2020 EDITION.

5. EARTH WORK CONTRACTOR SHALL BACKFILL ALL LANDSCAPE AREAS TO 2" OF PROPOSED FINISHED GRADE.

COST TO THE OWNER. EPOXY OR OTHER PATCHING METHODS WILL NOT BE ACCEPTED AS A MEANS OF

## **CONSTRUCTION SCHEDULE**

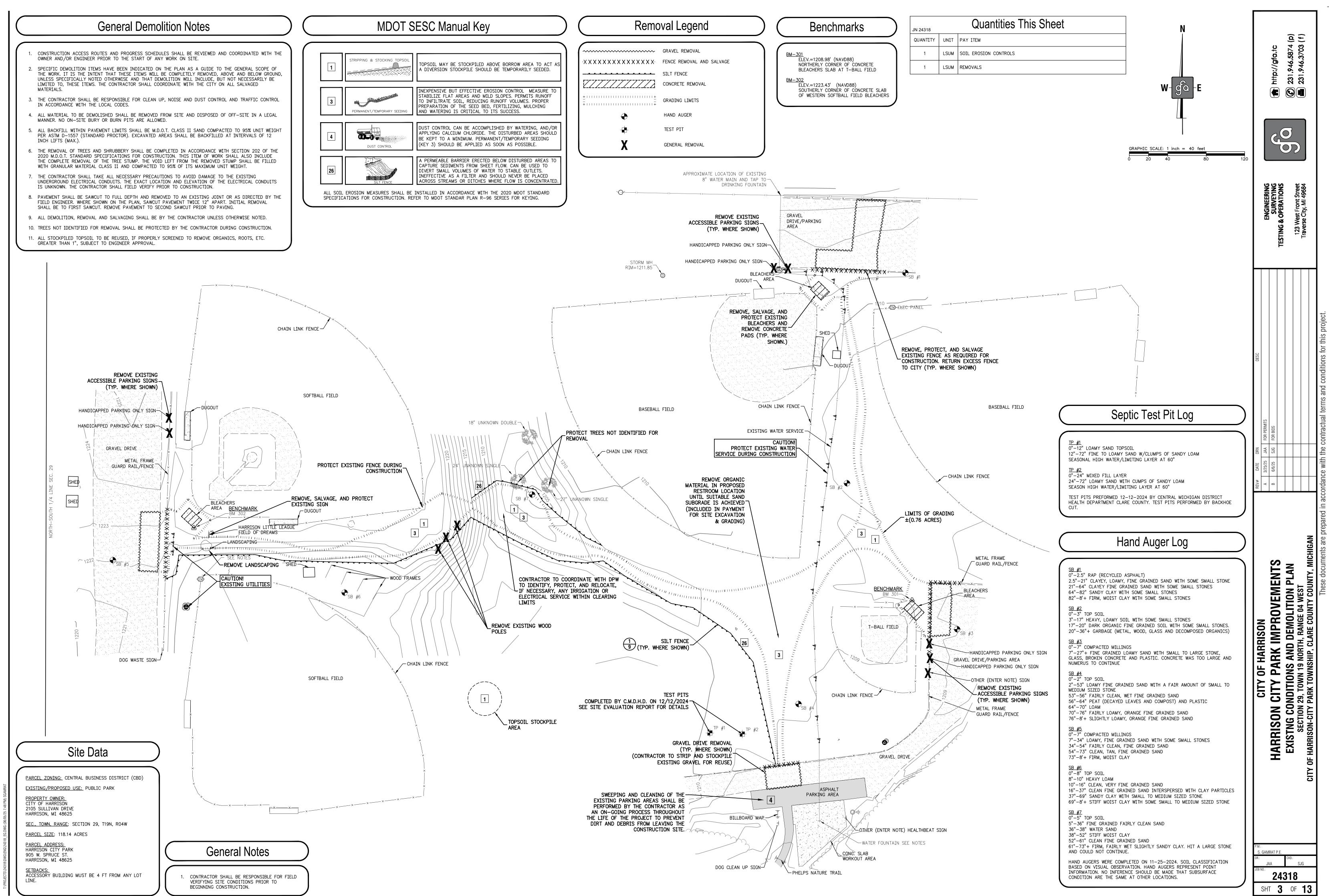
- 1. HARRISON CITY PARK IS A SPACE OPEN TO THE PUBLIC. THE PARK IS OPEN YEAR ROUND. THE PROPOSED WORK WIL RESTRICTIONS TO THE SITE AT TIMES AND THE CONTRACTOR SHALL TO COORDINATE WITH THE CITY/ENGINEER ACCO ACCOMMODATE PUBLIC USE AS NEEDED.
- 1. ALL WORK TO BE PERFORMED INCLUDING FACILITY ACCESS, MATERIALS, AND EQUIPMENT STORAGE SHALL BE COORDIN THE CITY..
- 2. CONTRACTOR SHALL SUBMIT A CONSTRUCTION SCHEDULE TO CITY/ENGINEER FOR APPROVAL PRIOR TO BEGINNING WC
- 3. ALL LOCATIONS FOR STORAGE/MOBILIZATION/STAGING TO BE WITHIN CITY OWNED PROPERTY AS COORDINATED WITH
- 4. CONTRACTOR TO BE RESPONSIBLE FOR SECURING THE SITE DAILY TO ENSURE PUBLIC SAFETY & ILLEGAL ACCESS.

## **GENERAL NOTES**

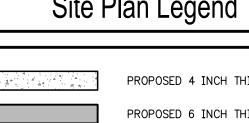
- 1. FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174, 2013, THE CONTRACTOR SHALL DIAL 811 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS PRIOF BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UT OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.
- 2. THE CONTRACTOR SHALL REMOVE, REPLACE, AND MAINTAIN ALL EXISTING MAIL BOXES, FENCES AND SIGNS NOT IDENTIFIED ON TH PLANS BUT REQUIRED FOR CONSTRUCTION ACTIVITIES. ALL COSTS SHALL BE INCLUDED IN THE UNIT PRICE BID LUMP SUMP PRICE FOR THE MOBILIZATION.
- 3. THE CONTRACTOR SHALL MAINTAIN LOCAL TRAFFIC AT ALL TIMES ON THE PROJECT.
- 4. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING ANY WORK.
- 5. ALL ELEVATIONS ARE BASED ON NAVD88 DATUM REFERENCED TO THE CHARLEVOIX CORS..
- 6. SPECIAL CARE SHALL BE TAKEN IN EXCAVATING IN THE PROXIMITY OF ALL UNDERGROUND UTILITIES. THE CONTRACTOR SHALL SECURE ASSISTANCE FROM THE APPROPRIATE UTILITY COMPANY IN LOCATING ITS LINES. THE CONTRACTOR ALSO: PROVIDE SUPPORT FOR ANY UTILITY WITHIN THE EXCAVATION, PROVIDE PROPER COMPACTION UNDER ANY UNDERMINED UTILITY STRUCTURE AND, IF NECESSARY, INSTALL TEMPORARY SHEETING OR USE A TRENCH BOX TO MIN THE EXCAVATION. THE CONTRACTOR SHALL PROTECT AND SAVE HARMLESS FROM DAMAGE ALL UTILITIES, WHETHER PRIVATELY OR PUBLICLY OWNED, ABOVE OR BELOW GROUND SURFACE, WHICH MAY BE ENCOUNTERED DURING CONSTRUCTION, AT NO ADDITIONAL COST TO THE OWNER.
- 7. THE EXISTING UTILITIES LISTED ON THIS SHEET AND SHOWN ON THESE PLANS REPRESENT THE BEST INFORMATION AVAILABLE AS OBTAINED ON OUR SURVEYS. THIS INFORMATION DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO BE SATISFIED AS TO ITS ACCURACY AND THE LOCATION OF EXISTING UTILITIES. THE LOCATION EXISTING PUBLIC UTILITIES AND UNDERGROUND STRUCTURES SUCH AS PIPE LINES, ELECTRIC CONDUITS, SEWERS AND WATER LINES, OF RECORD ARE SHOWN ON THE PLANS. THE INFORMATION SHOWN IS BELIEVED TO BE REASONABLY CORRECT AND COMPLETE. HOWEVER, NEITHER THE CORRECTNESS NOR THE COMPLETENESS OF SUCH INFORMATION IS GUARANTEED. PRIOR TO THE START OF ANY OPERATIONS IN THE VICINITY OF ANY UTILITIES, THE CONTRACTOR SH NOTIFY THE UTILITY COMPANIES AND MISS DIG AND REQUEST THAT THEY STAKE OUT THE LOCATIONS OF THE UTILIT IN QUESTION. THE CONTRACTOR SHALL COORDINATE THE RELOCATION OF ANY UTILITIES WITH THE UTILITY PROVIDER COST OF REPAIR FOR ANY DAMAGED UTILITY LINES THAT IS PROPERLY STAKED SHALL BE THE RESPONSIBILITY OF CONTRACTOR.
- 8. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS AND REGULATIONS GOVERNING THE FURNISHING AND U SAFEGUARDS, SAFETY DEVICES AND PROTECTION EQUIPMENT. THE CONTRACTOR SHALL TAKE ANY NECESSARY PRECAUT TO PROTECT THE LIFE AND HEALTH OF EMPLOYEES AND THE PUBLIC IN THE PERFORMANCE OF THE WORK.
- 9. EXCEPT WHERE OTHERWISE INDICATED ON THESE PLANS OR IN THE PROPOSAL AND SUPPLEMENTAL SPECIFICATIONS CONTAINED HEREIN, ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE MICHIGAN DEPARTMEN TRANSPORTATION 2020 STANDARD SPECIFICATIONS FOR CONSTRUCTION.
- 10. ALL STANDARD DRAWINGS AND ITEMS LISTED IN THESE PLANS, UNLESS OTHERWISE STATED, ARE FROM THE MICHIGAN DEPARTMENT OF TRANSPORTATION ROAD STANDARD PLANS. THEY ARE AVAILABLE FROM THE ENGINEER OR ONLINE AT WWWW.MICHIGAN.GOV/MDOT.
- 11. THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SCHEDULE TO THE OWNER AND ENGINEER BEFORE OR AT THE PRE-CONSTRUCTION MEETING. THE SCHEDULE WILL SHOW THE SEQUENCE OF CONSTRUCTION AND COMPLETION DATES MAJOR ITEMS OF WORK.
- 12. ANY PROPERTY CORNERS, MONUMENTS OR RIGHT-OF-WAY MARKERS DISTURBED BY ACTIVITIES OF THE CONTRACTOR BE RESET BY A LICENSED LAND SURVEYOR AT THE EXPENSE OF THE CONTRACTOR.
- 13. CONSTRUCTION EQUIPMENT AND MATERIALS MUST BE STORED IN A MANNER SO AS TO POSE NO THREAT TO WORKERS ADJACENT PROPERTY OWNERS, OR PUBLIC USE OF THE ROADWAY, NO MATERIALS OR EQUIPMENT SHALL BE STORED OUTSIDE THE WORK LIMITS WITHOUT VERIFIED WRITTEN PERMISSION OF THE OWNER OF THE PROPERTY.
- 14. THE CONTRACTOR SHALL SUBMIT A CONCRETE MIX DESIGN TO THE ENGINEER FOR APPROVAL PRIOR TO THE START OF PLACING CONCRETE. THE CONCRETE MIX DESIGN SHALL MEET THE REQUIREMENTS OF MDOT GRADE P1 CONCRETE.
- 15. THE CONTRACTOR SHALL SUBMIT AN HMA JOB MIX FORMULA TO THE ENGINEER FOR APPROVAL PRIOR TO THE START HMA PAVING OPERATIONS.
- 16. THE CONTRACTOR SHALL OBTAIN AND PAY ALL FEES FOR SOIL EROSION CONTROL PERMITS, RIGHT-OF-WAY PERMITS BUILDING PERMITS, IF REQUIRED.
- 17. IN CASES WHERE THERE IS A CONFLICT BETWEEN STANDARDS, DETAILS OR NOTES, THE MORE RESTRICTIVE SHALL TAK PRECEDENCE OR AS DETERMINED BY THE ENGINEER OR APPROPRIATE JURISDICTIONAL AGENCY.
- 18. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND MATERIAL SPECIFICATIONS OF ALL MATERIALS PROPOSED TO INCORPORATED INTO THE PROJECT FOR APPROVAL BY THE ENGINEER. MATERIALS CONTAINED IN THE MDOT "MATERIAL SOURCE GUIDE", AS AMENDED, ARE EXEMPT FROM THIS REQUIREMENT.
- 19. ALL EXCESS MATERIAL GENERATED FROM THIS PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND MUST DISPOSED OF IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.
- 20. THE SOIL BORINGS REPRESENT POINT INFORMATION, NO INFERENCE SHOULD BE MADE THAT SUBSURFACE CONDITIONS THE SAME AT OTHER LOCATIONS.
- 21. BEFORE BEGINNING WORK ON THE PROJECT, THE CONTRACTOR SHALL PROVIDE THE OWNER AND ENGINEER WITH THE AND TELEPHONE NUMBERS OF EMERGENCY CONTACTS. AT LEAST ONE PERSON REPRESENTING THE CONTRACTOR SHALL AVAILABLE TO RESPOND TO EMERGENCIES THROUGHOUT THE LIFE OF THE PROJECT AND SHALL BE AVAILABLE 24/7.
- 22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING SITE SAFETY DURING CONSTRUCTION OPERATIONS. PEDESTRI BARRICADES AND FENCING ARE RECOMMENDED AND SHALL BE INCIDENTAL TO THE COSTS TO COMPLETE PROJECT. THI ENGINEER OR OWNER ASSUME NO RESPONSIBILITY FOR SITE SAFETY. THE CONTRACTOR SHALL PROTECT HAZARDOUS WITH BARRICADES AND SHALL PROVIDE SIGNING, BARRICADES AND TRAFFIC REGULATORS IN ACCORDANCE WITH THE REQUIREMENTS OF THE AGENCY HAVING JURISDICTION OVER STREETS OR ROADS IN THE PROJECT AREA, THE CURRENT MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND THE PLANS AND SPECIFICATIONS.
- 23. ALL WORK AND MATERIALS, UNLESS OTHERWISE INDICATED ON THESE PLANS OR IN THE PROJECT SPECIFICATIONS, SH BE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2020 STANDARD SPECIFICATIONS FOR CONSTRUCTION.
- 24. THE ENGINEER SHALL PROVIDE CONSTRUCTION STAKING FOR THIS CONTRACT IN DIRECT CONTRACT WITH THE OWNER.
- 25. THE PREPARED GRAVEL BASE AND SUBBASE WIDTH, DEPTH, AND COMPACTION MUST BE REVIEWED AND APPROVED BY OWNERS ENGINEER PRIOR TO BITUMINOUS PAVING AND/OR CONCRETE PLACEMENT.
- 26. THE CONTRACTOR SHALL ENSURE THAT POSITIVE DRAINAGE IS MAINTAINED AT ALL TIMES IN THE AREAS OF PROPOSI WORK. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF AREAS OF POOLING WATER OR NEGATIVE DRAI IS ANTICIPATED.
- 27. ALL PROPOSED CONSTRUCTION SHALL COMPLY WITH THE PROVISIONS OF THE AMERICANS WITH DISABILITIES ACT (AD AND APPLICABLE GUIDELINES OR STANDARDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THESE REQUIREMENTS ARE MET. WHERE EXISTING CONDITIONS AND/OR THE REQUIREMENTS OF THE PLANS WILL RESULT IN FINISHED CONDITIONS THAT DO NOT MEET THE ADA REQUIREMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE TO REMOVE AND REPLACE WORK DETERI TO NOT BE IN ACCORDANCE WITH APPLICABLE REQUIREMENTS.

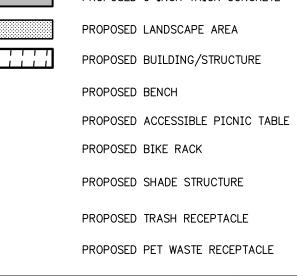
	S	OIL EROSION & SEDIMENTATION CONTROL NOTES			_	· ~
LL RENDER RDINGLY TO NATED WITH	1.	THE CONTRACTOR SHALL PROVIDE TEMPORARY SOIL EROSION CONTROL MEASURES PER P.A. 451 AS AMENDED. WITH THE USE OF SILT FENCE AND OTHER TEMPORARY MEASURES THE CONTRACTOR SHALL PROTECT THE ADJACENT AREA FROM ACCELERATED EROSION AND SEDIMENTATION FLOWS RESULTING FROM CONSTRUCTION. THE CONTRACTOR SHALL INSTALL ADDITIONAL TEMPORARY AND PERMANENT SOIL EROSION CONTROL MEASURES. IF DIRECTED BY THE ENGINEER OR SOIL EROSION CONTROL OFFICER, AT NO ADDITIONAL COST TO THE PROJECT.		http://gfa.tc	1.946.5874 (n	231.946.3703 (f)
ORK. OWNER.	2.	SHOULD ADDITIONAL SOIL EROSION CONTROL MEASURES BE DETERMINED TO BE NECESSARY BY EITHER THE SOIL EROSION CONTROL OFFICER OR THE OWNER'S ENGINEER THEY SHALL BE IN PLACE NO LATER THAN 24 HOURS FROM THE TIME OF NOTIFICATION TO THE GENERAL CONTRACTOR FOR THE PROJECT. IF NOT PLACED IN 24 HOURS OR LESS ALL ON SITE CONSTRUCTION WILL BE HALTED UNTIL SUCH MEASURES ARE INSTALLED AND APPROVED BY EITHER THE SOIL EROSION CONTROL OFFICER OR THE OWNER'S ENGINEER.		H4		8
	3.	IF REQUESTED BY THE ENGINEER OR SOIL EROSION CONTROL OFFICER, A WATER TRUCK SHALL BE KEPT ON STAND-BY ON SITE DURING THE CONSTRUCTION PHASE OF THE PROJECT. THE WATER TRUCK SHALL BE USED AS DIRECTED BY THE ENGINEER OR SOIL EROSION CONTROL OFFICER TO CONTROL WIND EROSION.			$\bigcirc$	
R TO WILL ILITY	4.	ALL EXISTING STORM DRAINS WITHIN THE CONSTRUCTION ZONE TO BE INSTALLED/MONITORED WITH FABRIC DROPS.				$\mathbf{\mathcal{S}}$
Έ Γ	5.	ALL REMOVED TOPSOIL WILL BE STOCKPILED WITHIN THE PROJECT AREA. IF ADDITIONAL TOPSOIL IS AVAILABLE AFTER TOPSOILING THE CONSTRUCTION AREA, IT WILL BE STOCKPILED WITHIN 1000 FEET OF THE CONSTRUCTION AREA AS DIRECTED BY THE OWNER OR ENGINEER.				
L	6.	THE CONTRACTOR SHALL REPAIR ALL WASHOUTS AND EROSION DURING THE GUARANTEE PERIOD OF ONE (1) YEAR AT NO ADDITIONAL COST TO THE OWNER.			ons	treet 9684
	7.	ALL RESTORATION SHALL OCCUR WITHIN FIVE (5) DAYS OF ESTABLISHING FINAL GRADE.		ENGINEERING SURVEYING	PERATI	Front S ity, MI 4
OR	W	IATER & SEWER NOTES			9 <u>0</u>	123 West Front Street Traverse City, MI 49684
SHALL	1.	ALL CONSTRUCTION MATERIALS AND PROCEDURES MUST CONFORM WITH CURRENT DPW STANDARDS, SPECIFICATIONS AND DETAILS.			TESTING	T Ta
	2.	ALL SANITARY SEWER SHALL BE SDR35 PVC AND MEET THE ASTM D 3034 REQUIREMENTS UNLESS OTHERWISE NOTED. ALL ONSITE WATER LEAD SHALL BE HDPE SDR9 AND MEET ASTM D3408 UNLESS OTHERWISE NOTED. ALL WATER SERVICE LEADS IN RIGHT—OF—WAY SHALL BE TYPE K COPPER UNLESS OTHERWISE NOTED.				
)F )	3.	THE CONTRACTOR SHALL NOTIFY THE ENGINEER 48 HOURS PRIOR TO THE START OF CONSTRUCTION OF THE SANITARY SEWER AND WATER MAIN. CONTRACTOR SHALL ISSUE A WORK SCHEDULE TO THE ENGINEER PRIOR TO THE START OF SANITARY SEWER CONSTRUCTION.				
ALL IES		NO CONNECTION RECEIVING STORM WATER OR GROUND WATER SHALL BE MADE TO SANITARY SEWERS. NO CONNECTION TO THE EXISTING SANITARY SEWER AND EXISTING WATER MAIN SHALL BE MADE UNTIL THE				
R. HE	6.	NEW SEWER HAS BEEN INSTALLED, TESTED, INSPECTED, AND APPROVED BY THE ENGINEER AND THE DPW. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE VALVES/MANHOLE/CLEANOUT RIMS TO THE				
ISE OF TIONS		FINISH GRADE ELEVATIONS. THE ELEVATIONS SHOWN ARE BASED UPON PLAN GRÁDES AND ARE SUBJECT TO CHANGE.				
	7.	IT SHALL BE THE CONTRACTORS DECISION TO OPEN CUT OR DIRECTIONALLY DRILL THE PROPOSED WATER SERVICE.	DESC			
OF	8.	THE ALIGNMENT OF THE PROPOSED SANITARY SEWER AND WATER LEADS IS SHOWN FOR REFERENCE ONLY. CONTRACTOR MAY DEVIATE/DEFLECT AS NECESSARY, COMPLIANT WITH MANUFACTURER'S RECOMMENDATIONS, TO AVOID CONFLICTS FOR EASIER CONSTRUCTION. COSTS FOR ADDITIONAL PIPING, FITTINGS, ETC. SHALL BE INCLUDED IN THE COST OF THE PROJECT.				
		ALL WORK TO BE COORDINATED WITH THE DPW AND ENGINEER. LOCATION OF SEWER AND WATER LEADS ARE SHOWN FOR BIDDING PURPOSES. CONTRACTOR SHALL BE				
FOR		RESPONSIBLE FOR FIELD VERIFYING AND LOCATING TO BEST SUIT EXISTING PLUMBING CONDITIONS. CONTRACTOR TO OBTAIN WATER METERS AND BACKFLOW PREVENTER FROM CITY FOR EACH WATER CONNECTION.		For Permits For Bids		
SHALL	12.	WATER MAIN SHALL HAVE A MINIMUM OF SIX (6) FEET OF COVER BELOW EXISTING OR PROPOSED GRADE, UNLESS NOTED OTHERWISE ON THE PLANS.	DRN			
5,	13.	THE CONTRACTOR SHALL COORDINATE THE CONNECTION TO THE EXISTING WATER MAIN WITH THE DPW AND THE ENGINEER. THE DPW SHALL BE GIVEN A MINIMUM OF 24 HOURS NOTICE PRIOR TO ANY CONNECTIONS.	DATE [			
F OF	14.	IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN WATER FOR FLUSHING AND TESTING PURPOSES. CONTRACTOR SHALL COORDINATE WITH THE DPW, IF WATER IS OBTAINED FROM THE WATER SYSTEM, THE DPW SHALL BE GIVEN 24 HOURS NOTICE PRIOR TO USING ANY WATER FROM THE CITY WATER SYSTEM.	REV#			
AND	15.	TO FACILITATE WATER SAMPLING, THE CONTRACTOR MAY INSTALL T(2) INCH CORPORATION STOPS AND TYPE K COPPER TUBE FROM THE TWO (2) INCH CORPORATION TO APPROXIMATELY FOUR (4) FEET ABOVE THE FINISH GRADE IN LOCATIONS APPROVED BY THE FIELD ENGINEER. AFTER THE WATER MAIN HAS BEEN FLUSHED AND SATISFACTORY BACTERIOLOGICAL ANALYSIS TESTS HAVE PASSED, THE TYPE 'K' COPPER TUBE SHALL BE REMOVED AND THE TWO (2) INCH CORPORATION WILL BE CLOSED. CONTRACTOR WILL INFORM THE FIELD				
BE		REPRESENTATIVE/CONSTRUCTION REPRESENTATIVE TO ALLOW HIM TO WITNESS THE REMOVING OF THE COPPER TUBING AND THE CLOSING OF THE CORPORATION.				IGAN
L		PRIOR TO PIGGING AND FLUSHING, ALL LINES SHALL BE CHARGED WITH WATER. ALL PERMANENT BLOW-OFF ASSEMBLIES SHALL BE CUT OFF BELOW GRADE AFTER TESTING IS COMPLETE. THE		Ś	)	MICHIGAN
ST BE	18.	STANDING WATER WITHIN THE BLOW-OFF SHALL BE PUMPED OUT OF THE RISER, CAPPED, BOLTED AND BURIED. CONTRACTOR SHALL PROPERLY DISPOSE OF CHLORINATED WATER USED IN TESTING OPERATIONS.		ENT ENT		/EST County,
S ARE	19.	CONTRACTOR TO SUBMIT A CONSTRUCTION SCHEDULE AND SEQUENCE FOR APPROVAL PRIOR TO PERFORMING ANY WORK.		FMFNT		
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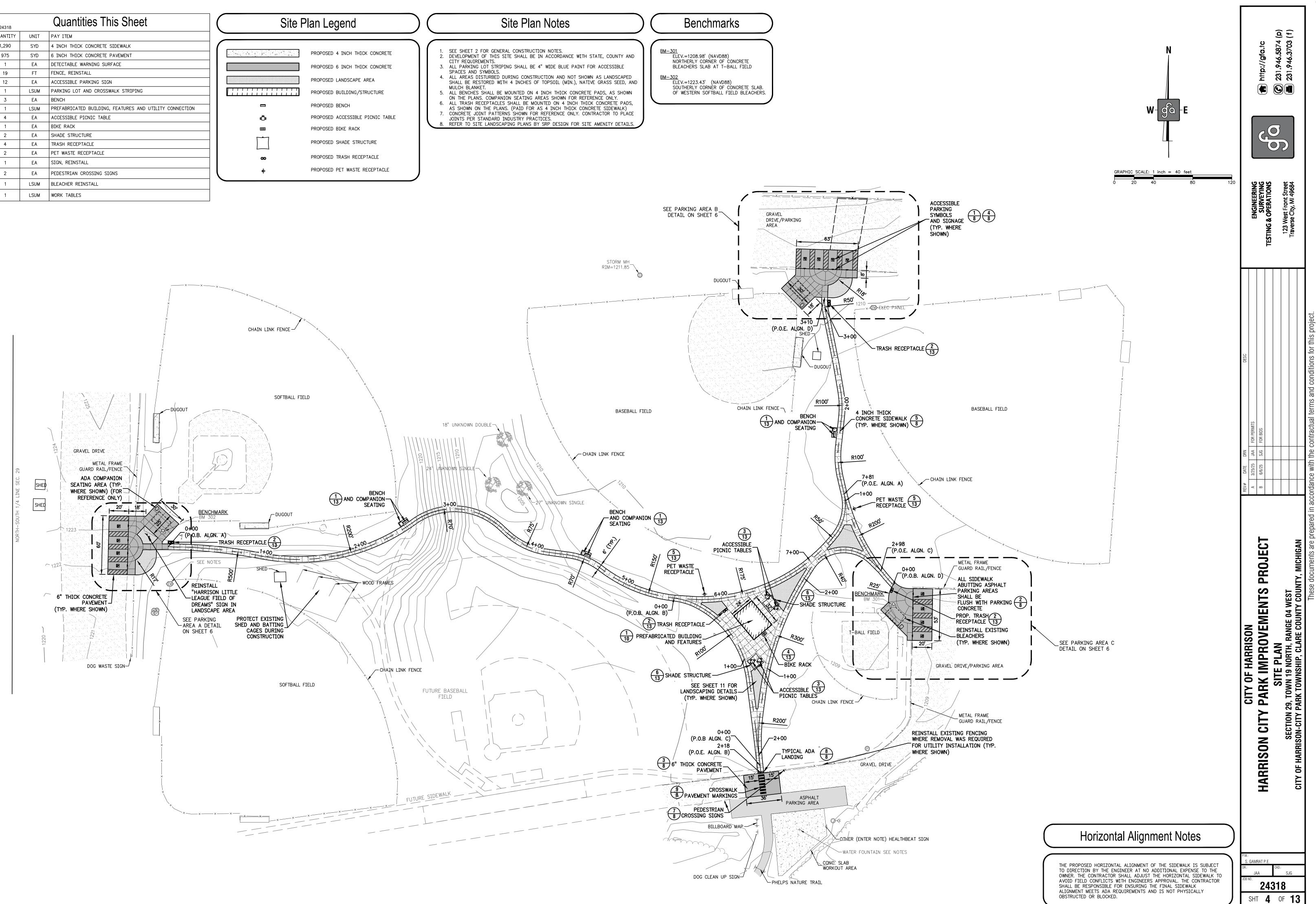
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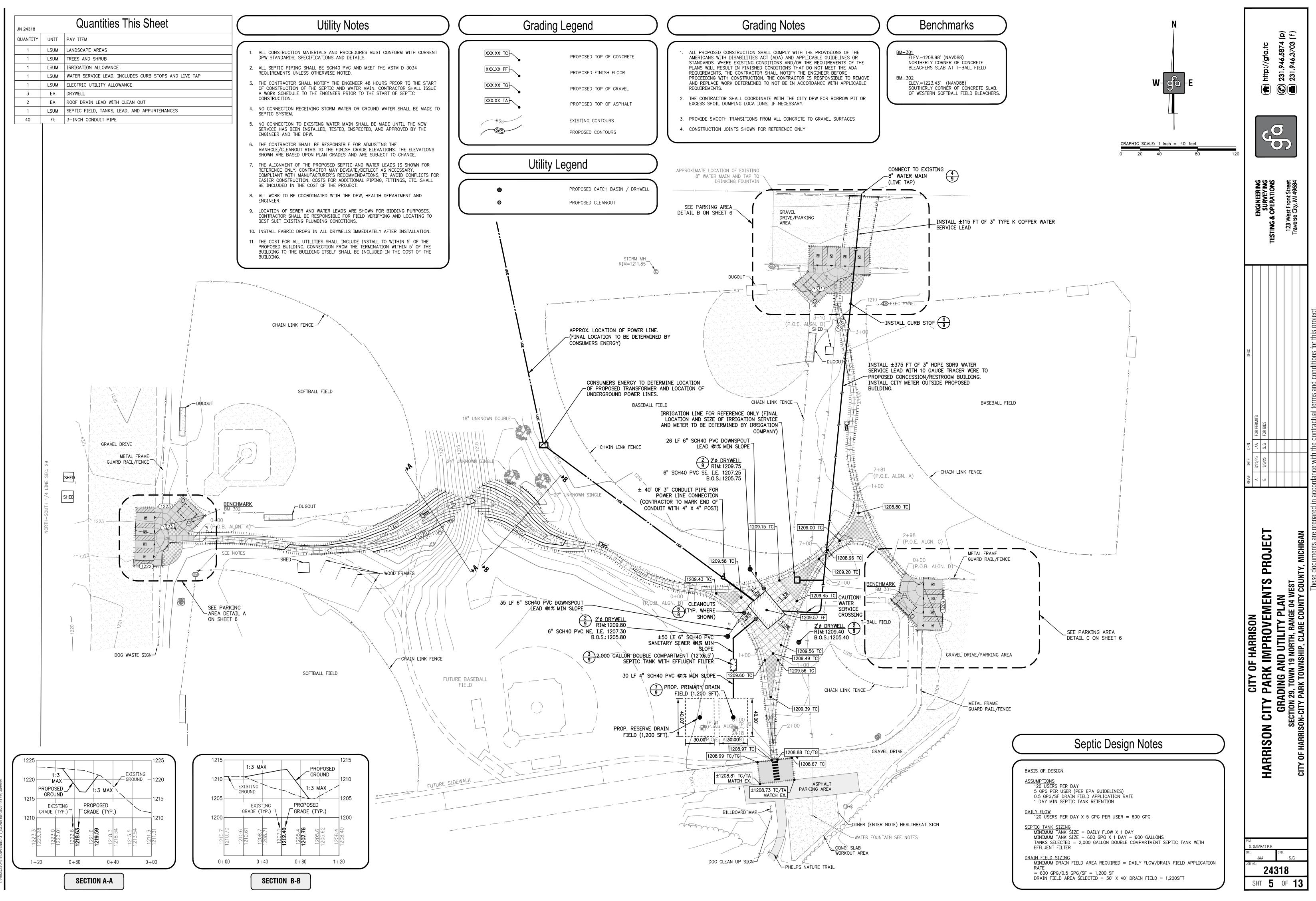


IN 24318		Quantities This Sheet
QUANTITY	UNIT	PAY ITEM
1,290	SYD	4 INCH THICK CONCRETE SIDEWALK
975	SYD	6 INCH THICK CONCRETE PAVEMENT
1	EA	DETECTABLE WARNING SURFACE
19	FT	FENCE, REINSTALL
12	EA	ACCESSIBLE PARKING SIGN
1	LSUM	PARKING LOT AND CROSSWALK STRIPING
3	EA	BENCH
1	LSUM	PREFABRICATED BUILDING, FEATURES AND UTILITY CONNECTION
4	EA	ACCESSIBLE PICNIC TABLE
1	EA	BIKE RACK
2	EA	SHADE STRUCTURE
4	EA	TRASH RECEPTACLE
2	EA	PET WASTE RECEPTACLE
1	EA	SIGN, REINSTALL
2	EA	PEDESTRIAN CROSSING SIGNS
1	LSUM	BLEACHER REINSTALL
1	LSUM	WORK TABLES









# Grading Legend

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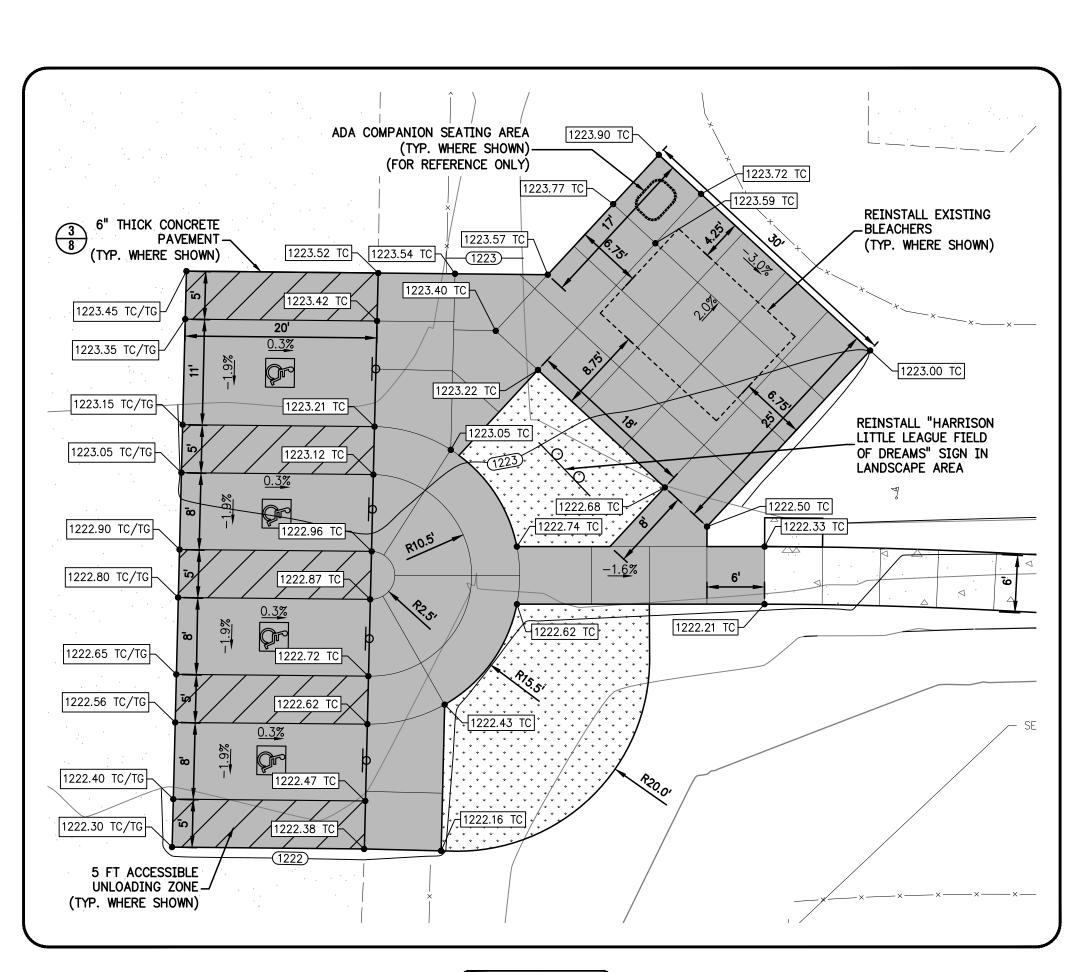
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PROPOSED FINISH FLOOR PROPOSED TOP OF GRAVEL PROPOSED TOP OF ASPHALT

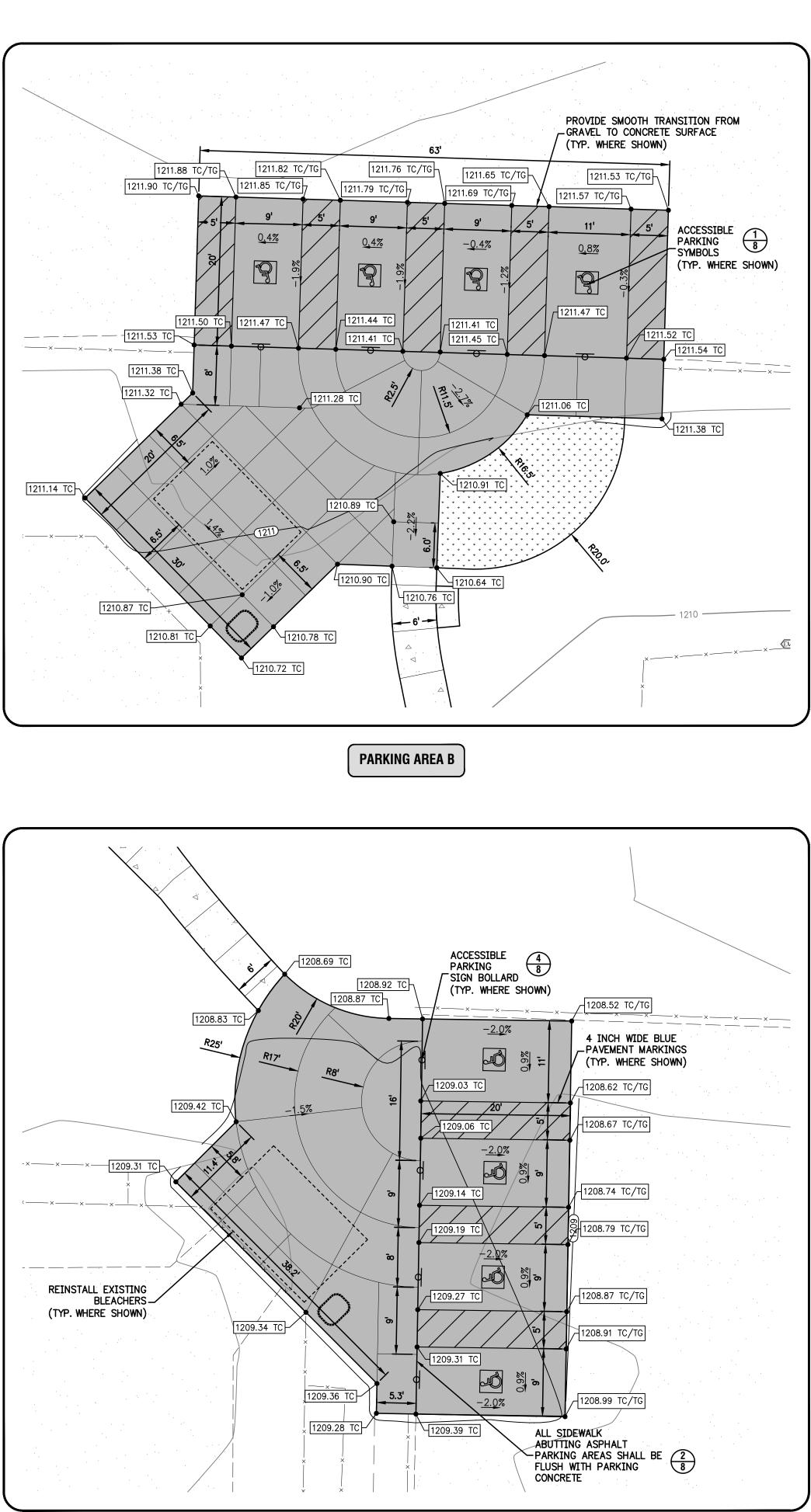
PROPOSED TOP OF CONCRETE

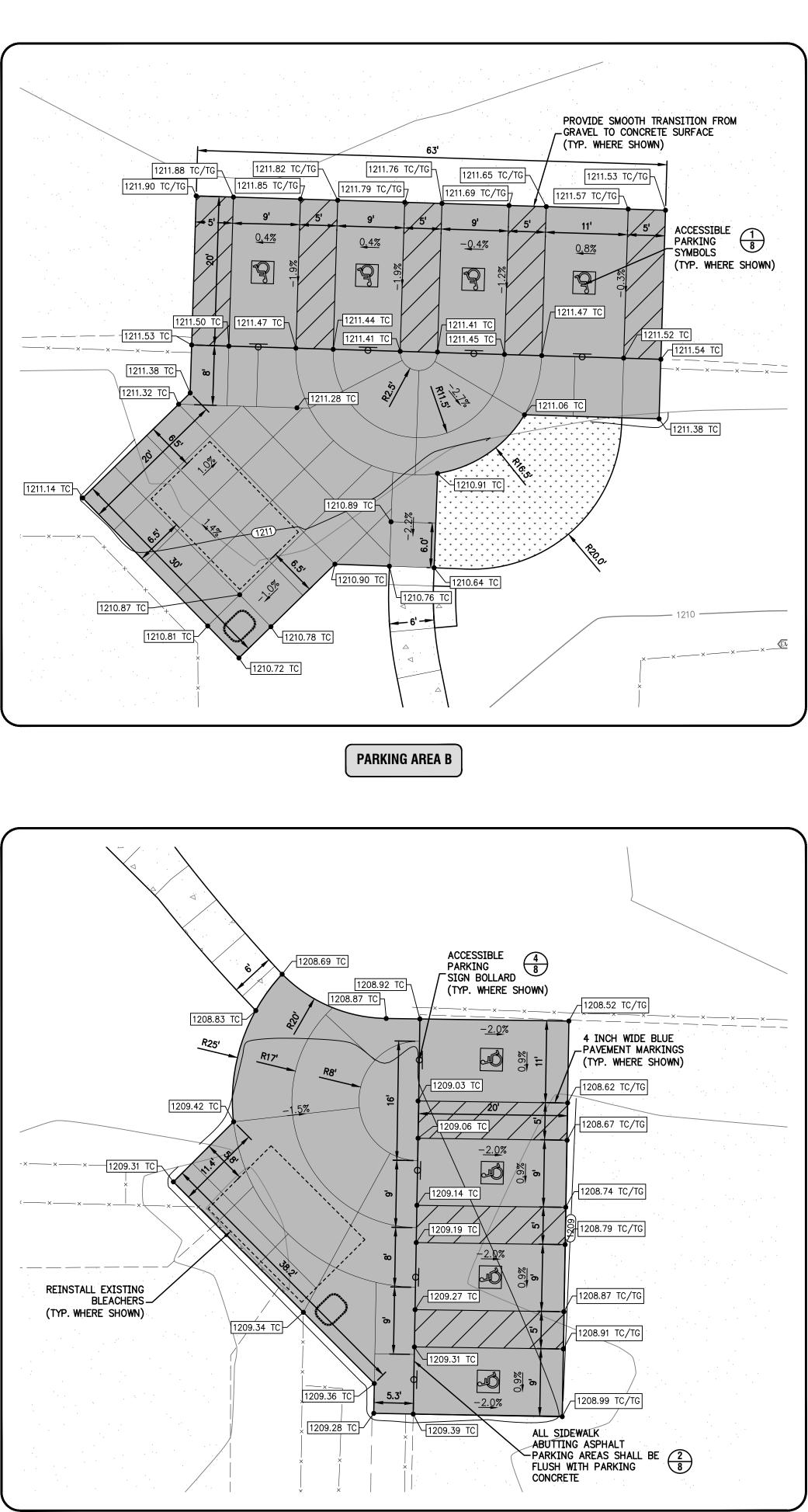
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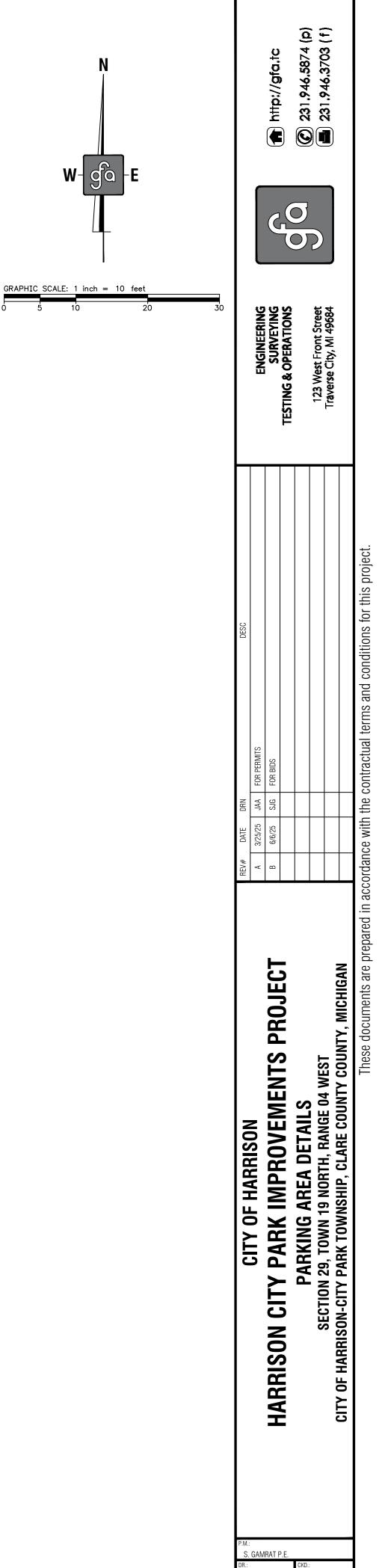
PARKING AREA A

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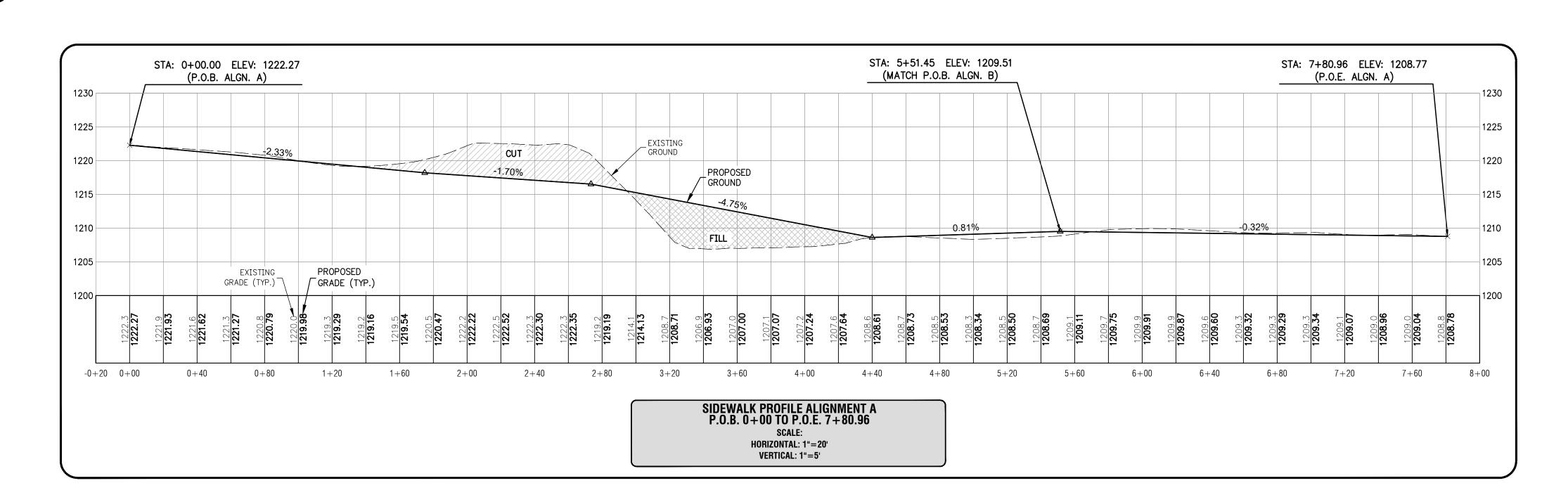
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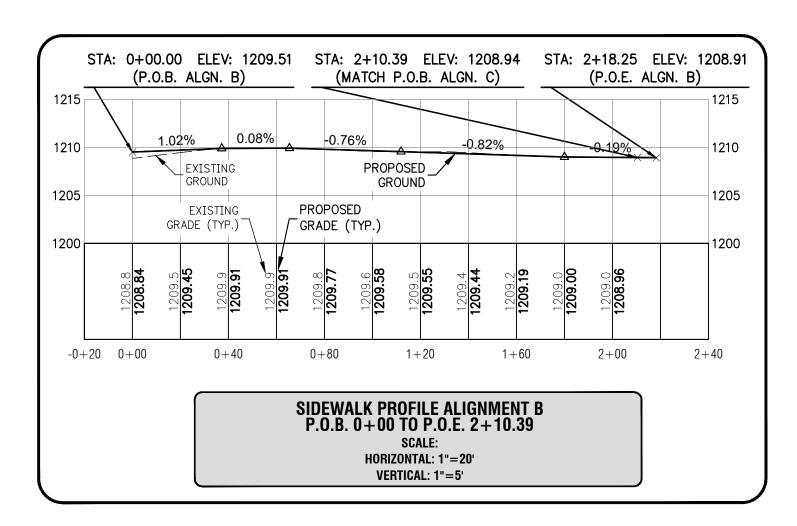
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# Vertical Alignment Notes

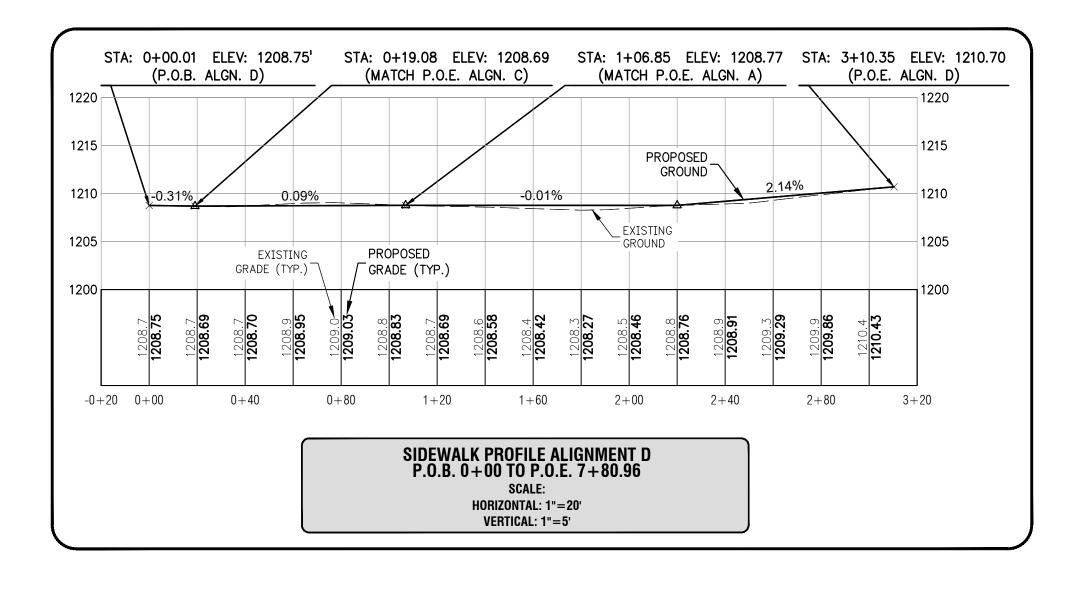
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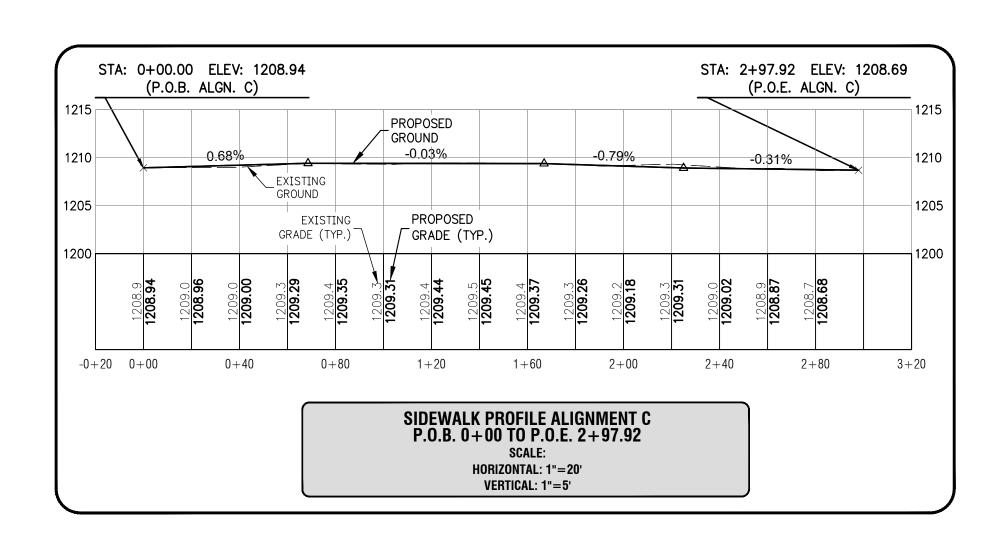
THE PROPOSED SIDEWALK VERTICAL PROFILE IS APPROXIMATE AND SUBJECT TO DIRECTION BY THE ENGINEER AT NO ADDITIONAL EXPENSE TO THE OWNER. THE INTENT OF THE VERTICAL ALIGNMENT IS TO FOLLOW THE EXISTING GROUND PROFILE, EXCEPT FOR DRAINAGE AND WHERE VERTICAL CHANGE IS REQUIRED TO MEET ADA REQUIREMENTS IN SELECT AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT NO SECTION OF THE SIDEWALK EXCEEDS ADA REQUIREMENTS, THAT PROPER DRAINAGE IS MAINTAINED, AND SHALL INFORM THE ENGINEER PROMPTLY SHOULD THEY NOTICE CONFLICTING VERTICAL ALIGNMENT CONCERNS



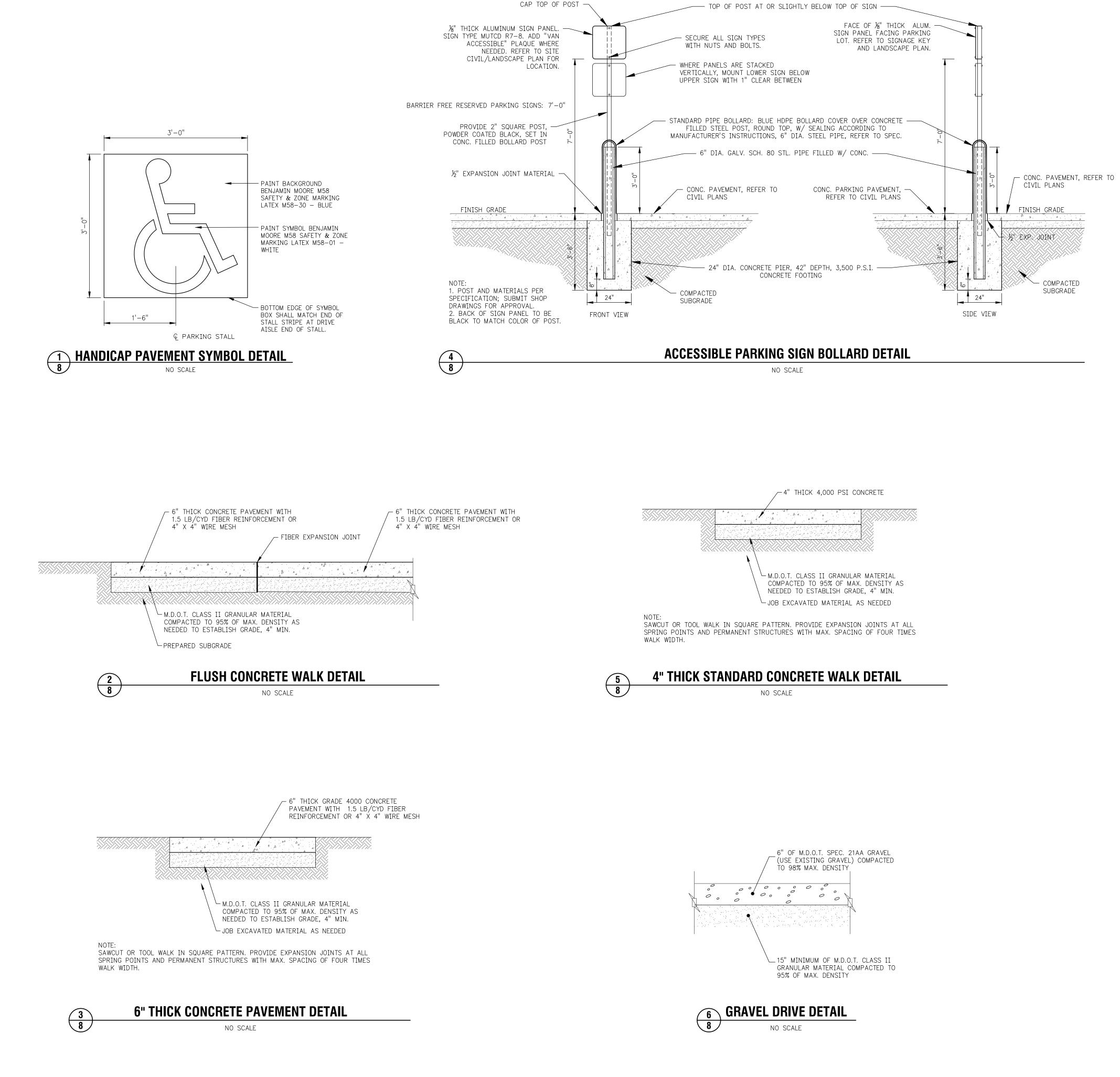


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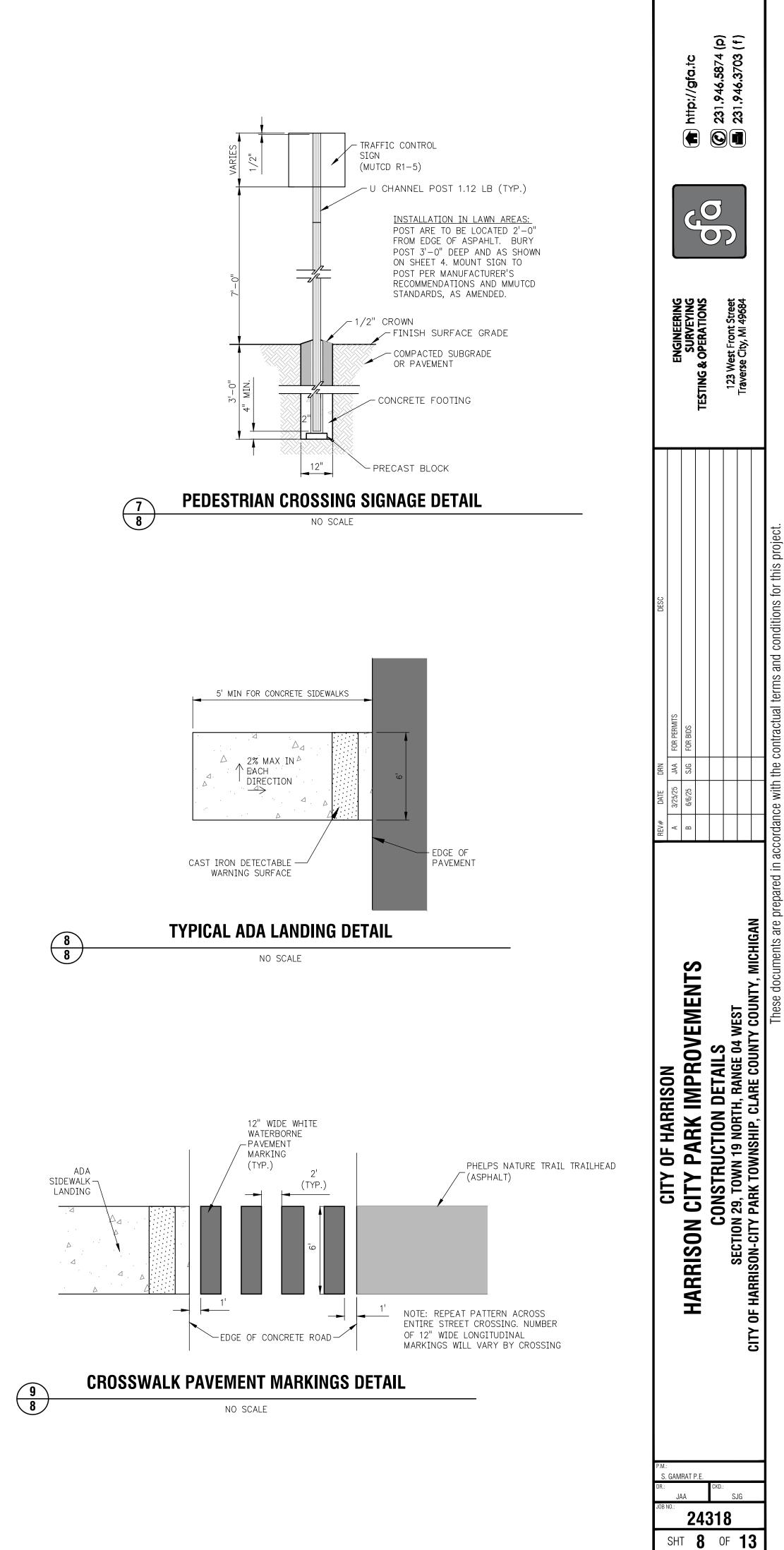




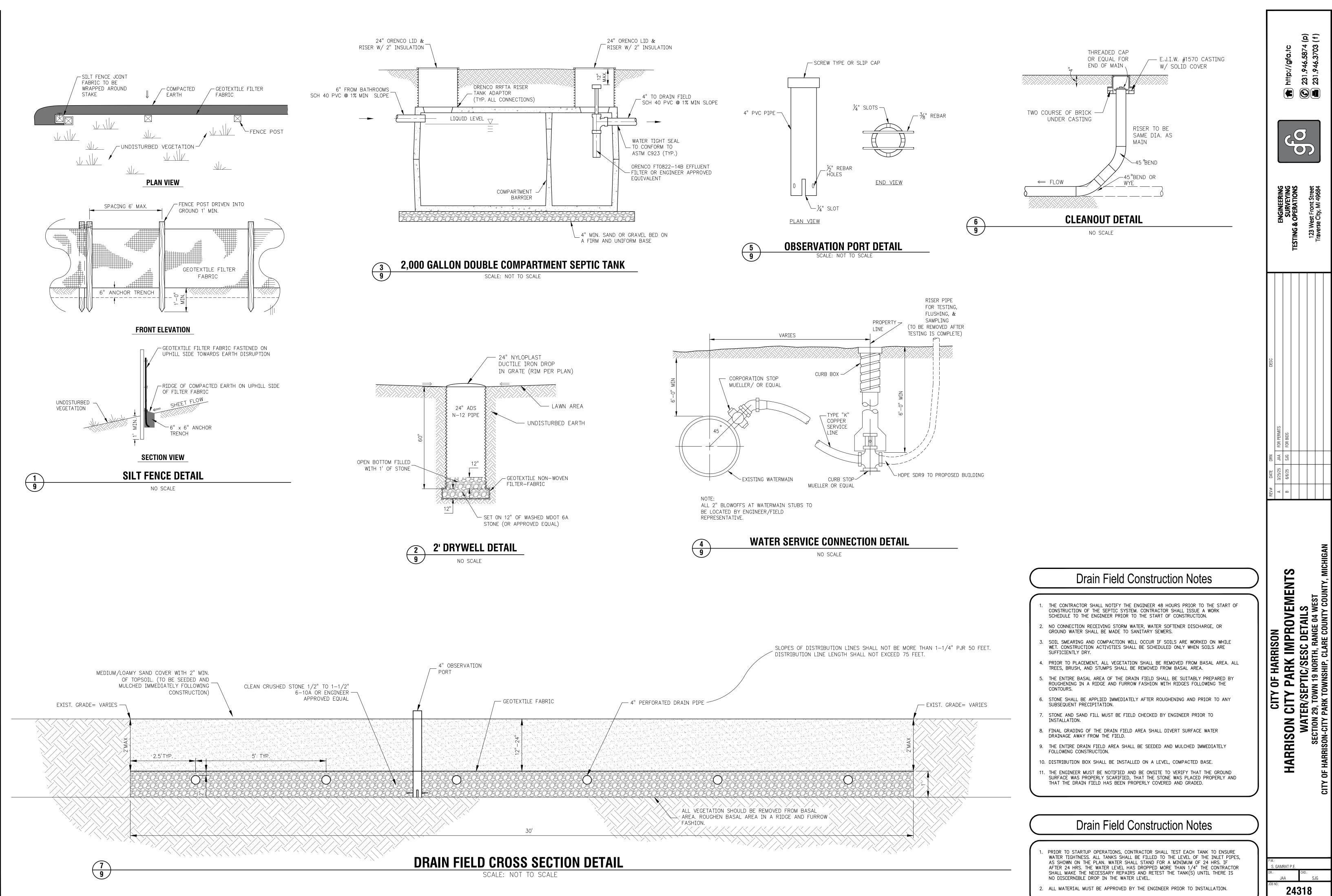
N W-GO-E	<ul> <li>http://gfa.tc</li> <li>231.946.5874 (p)</li> <li>231.946.3703 (f)</li> </ul>
GRAPHIC SCALE: 1 inch = 40 feet 20 $40$ $80$ $120$	ENGINEERING         ENGINEERING         SURVEYING         SURVEYING         TESTING & OPERATIONS         123 West Front Street         Traverse City, MI 49684
	REV#     DATE     DATE     DATE     DATE     DESC       A     325/25     JA     FOR PERMITS     DESC       B     6/6/25     SLG     FOR PERMITS     DESC       B     6/6/25     SLG     FOR PERMITS     DESC       B     6/6/25     SLG     FOR PERMITS     DESC       EST     B     6/6/26     SLG     FOR PERMITS       FOR     B     FOR PERMITS     FOR PERMITS     FOR PERMITS       FOR     B     FOR PERMITS     FOR PERMITS     FOR PERMITS       FOR     FOR PERMITS     FOR PERMITS     FOR PERMITS     FOR PERMITS       FOR     FOR PERMITS     FOR PERMITS     FOR PERMITS     FOR PERMITS       FOR PERMITS     FOR PERMITS     FOR PERMITS     FOR PERMITS<
	CITY OF HARRISON HARRISON CITY PARK IMPROVEMENTS PROJECT PROFILES SECTION 29, TOWN 19 NORTH, RANGE 04 WEST CITY OF HARRISON-CITY PARK TOWNSHIP, CLARE COUNTY COUNTY, MICHIGAN These documents are prepared in act
	P.M.: S. GAMRAT P.E. DR: JAA JOB NO: <b>24318</b> SHT <b>7</b> OF <b>13</b>



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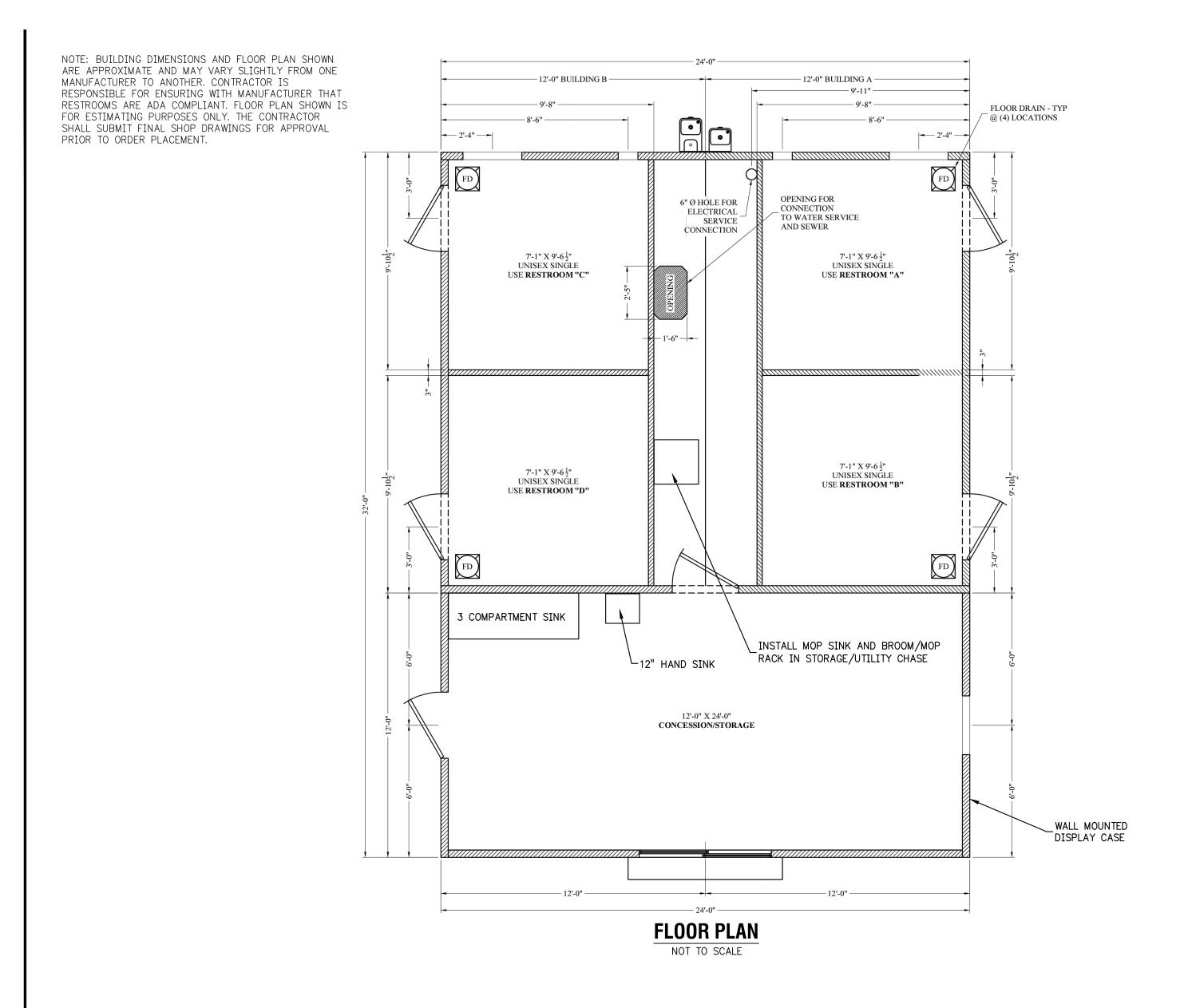


- 2. ALL MATERIAL MUST BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.

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## **GENERAL STRUCTURAL NOTES**

### <u>DESIGN:</u>

STRUCTURAL DESIGN OF THIS BUILDING IS IN ACCORDANCE WITH THE MICHIGAN BUILDING CODE, 2021.

THE STRUCTURAL NOTES ARE INTENDED TO AUGMENT THE DRAWINGS AND SPECIFICATIONS. SHOULD CONFLICTS EDITIONS. EXIST BETWEEN THE DRAWINGS, SPECIFICATIONS, AND NOTES, THE STRICTEST PROVISION SHALL GOVERN. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING AND CONCRETE S LAB.

SEISMIC DESIGN STANDARDS ARE TO BE USED FOR APPLICABLE STRUCTURES.

<u>DESIGN LOADS:</u> DEAD LOAD ROOF= 17 PSF

> SNOW LOAD (ASCE 7-10) GROUND SNOW, Pg = 60 PSFEXPOSURE FACTOR, Ce = 1.0 TERRAIN 'C', PARTIALLY EXPOSED THERMAL FACTOR, Ct = 1.1IMPORTANCE FACTOR, I =1.0, CATEGORY I FLAT AND SLOPED ROOF SNOW LOAD, Pf = Ps = 46.2 PSFWIND LOAD (ASCE 7-10)

METHOD 1 - ENVELOPE PROCEDURE EXPOSURE 'C' TOPO FACTOR, Kzt = 1.0 IMPORTANCE FACTOR, I =0.80, CATEGORY I

EARTHQUAKE LOAD Ss = 0.074g < 0.15g

Si = 0.036g < 0.04gTHEREFORE ASSIGN SEISMIC DESIGN CATEGORY 'A'

## FOUNDATIONS:

ALL FOOTINGS SHALL BEAR ON SOIL, HAVING AN ASSUMED MINIMUM ALLOWABLE BEARING CAPACITY OF 2,000 P.S.F. AT 3'-6" BELOW GRADE. THE ASSUMED SOIL BEARING CAPACITY MUST BE CONFIRMED BY A SOILS TESTING AGENCY, IN WRITING TO OWNER, PRIOR TO CONCRETE PLACEMENT. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY IN THE EVENT THAT THE SOILS ENCOUNTERED DO NOT PROVIDE THE ASSUMED BEARING CAPACITY ALL HORIZONTAL REINFORCEMENT SHOWN ON THE DRAWINGS SHALL BE CONTINUOUS OR SPLICE BARS SHALL BE

PLACE BACKFILL EQUALLY ON BOTH SIDES OF FOUNDATION WALLS.

CONTRACTOR TO VERIFY AND/OR COORDINATE LOCATIONS OF ALL UNDERGROUND UTILITIES/PIPES AND PROVIDE SLEEVES AS REQUIRED.

FOOTINGS SHALL BE CENTERED UNDER COLUMNS AND WALLS.

NO FOOTINGS OR SLABS SHALL BE PLACED ON OR AGAINST SUB-GRADE CONTAINING FREE WATER OR ICE. CONTRACTOR TO FURNISH ALL REQUIRED DE-WATERING EQUIPMENT TO MAINTAIN DRY EXCAVATION.

10

CONCRETE AND REINFORCING:

4000 PSI.

REINFORCEMENT AND INSERTS, AND TO PREVENT FORMATION OF VOIDS. TAPPING OF FORMS SHALL NOT BE PFRMITTED.

ALL SLAB-ON-GRADE TO RECEIVE A 'TROWEL FINISH' PER ACI-301. ALL CONCRETE SUBJECT TO EXTERIOR EXPOSURE SHALL BE AIR ENTRAINED 4% TO 6%.

BE DONE IN ACCORDANCE WITH ACI-305, LATEST EDITIONS.

REINFORCING BARS SHALL BE DEFORMED BARS CONFORMING TO ASTM SPACING OF VERTICAL REINFORCING IN MASONRY WALLS.

REINFORCING STEEL SHALL NOT BE CUT, BENT, OR STRAIGHTENED IN THE FIELD.

WELDING OF REINFORCING BARS WILL NOT BE ALLOWED.

PROVIDED

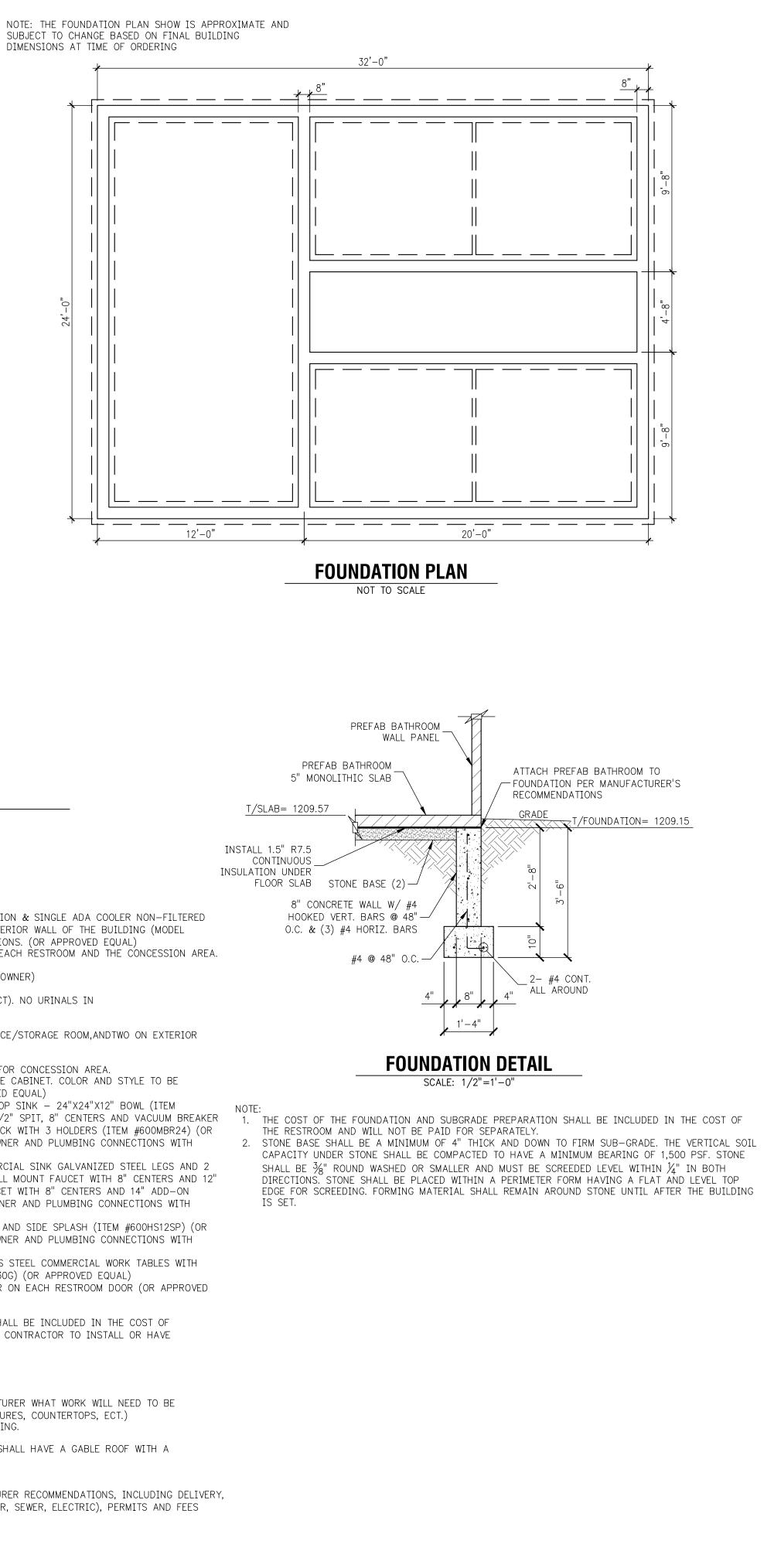
MINIMUM LAP REINFORCING BARS SHALL BE IN ACCORDANCE WITH ACI-318.

FOR THEIR PROPER LOCATION BEFORE PLACING CONCRETE.

ALUMINUM-CONCRETE REACTION.

BASE.

# DIMENSIONS AT TIME OF ORDERING



# **GENERAL BUILDING NOTES**

- NOTES: 1. PREFABRICATED BUILDING TO BE HUFFCUTT, OR APPROVED EQUAL
  - HUFFCUTT 4033 123RD STREET
  - CHIPPEWA FALLS, WI 54729
  - REPRESENTATIVE: JON SCHROETKE JSCHROETKE@THESIGHGROUP.COM
    - 715-438-6257
- 2. PREFABRICATED BUILDING SHALL HAVE:
  - HALSAY TAYLOR HYDROBOOST VANDAL-RESISTANT BOTTLE FILLING STATION & SINGLE ADA COOLER NON-FILTERED REFRIGERATED STAINLESS DRINKING FOUNDATION MOUNTED ON THE EXTERIOR WALL OF THE BUILDING (MODEL HTHBHVR8-NF). INSTALL PER MANUFACTURERS INSTALLATION INSTRUCTIONS. (OR APPROVED EQUAL) INTERIOR FLOOR DRAINS WITH CONNECTIONS TO WASTE LINE IN EACH EACH RESTROOM AND THE CONCESSION AREA.
  - TANKLESS HOT WATER HEATER _ - 5 INCH WIDE GUTTERS WITH DOWNSPOUTS (COLOR TO BE SELECTED BY OWNER)
  - 200 AMP ELECTRICAL PANEL
  - PORCELAIN PLUMBING FIXTURES IN RESTROOMS (TOILETS AND SINKS ECT). NO URINALS IN RESTROOMS. TOILETS SHALL NOT BE AUTO FLUSH.
  - ADA COMPLIANT DIAPER CHANGING TABLES IN EACH RESTROOM. - TAMPER RESISTANT HOSE BIB INSIDE EACH RESTROOM, THE MAINTENANCE/STORAGE ROOM, AND TWO ON EXTERIOR
  - WALLS. - TWO EXTERIOR WALL MOUNTED OUTLETS WITH LOCKING COVERS. - 4'x6' STEEL ROLL DOWN WINDOW WITH 6' EXTERIOR SERVING COUNTER FOR CONCESSION AREA.
  - 2 DOOR ENCLOSED OUTDOOR POSTER DISPATCH CASE WITH RADIUS EDGE CABINET. COLOR AND STYLE TO BE SELECTED BY OWNER. (DISPLAYS4SALE ITEM ID#SCPR234). (OR APPROVED EQUAL)
  - REGENCY 29" 16-GAUGE STAINLESS STEEL ONE COMPARTMENT FLOOR MOP SINK 24"X24"X12" BOWL (ITEM #600SM242412) WITH REGENCY WALL-MOUNTED SINK FAUCET WITH 6-1/2" SPIT, 8" CENTERS AND VACUUM BREAKER 1. (ITEM #600FMS86) AND REGENCY 24" STAINLESS STEEL MOP/BROOM RACK WITH 3 HOLDERS (ITEM #600MBR24) (OR ÀPPROVED EQUAL). COORDINATE MOP STATION SINK LOCATION WITH OWNER AND PLUMBING CONNECTIONS WITH BUILDING MANUFACTURER PRIOR TO ORDERING.
  - REGENCY 70" 16 GAUGE STAINLESS STEEL THREE COMPARTMENT COMMERCIAL SINK GALVANIZED STEEL LEGS AND 2 DRAINBOARDS - 14"X16"X12" (ITEM #600S3141612G) WITH REGENCY WALL MOUNT FAUCET WITH 8" CENTERS AND 12" SWING SPOUT AND REGENCY 1.15 GPM WALL-MOUNTED PRE-RINSE FAUCET WITH 8" CENTERS AND 14" ADD-ON FAUCET (OR APPROVED EQUAL). COORDINATE SINK LOCATION WITH OWNER AND PLUMBING CONNECTIONS WITH BUILDING MANUFACTURER PRIOR TO ORDERING.
  - REGENCY 12"X16" WALL MOUNTED HAND SINK WITH GOOSENECK FAUCET AND SIDE SPLASH (ITEM #600HS12SP) (OR APPROVED EQUAL). COORDINATE MOP STATION SINK LOCATION WITH OWNER AND PLUMBING CONNECTIONS WITH BUILDING MANUFÁCTURER PRIOR TO ORDERING.
  - 3 REGENCY 30"X96" AND 1 30"X30" REGENCY 18-GAUGE 304 STAINLESS STEEL COMMERCIAL WORK TABLES WITH GALVANIZED STEEL LEGS AND UNDERSHELF (ITEM #600T3096G/#600T3030G) (OR APPROVED EQUAL) - MAGLOCKS PUBLIC RESTROOM MAGLOCK KIT WITH PROGRAMMABLE TIMER ON EACH RESTROOM DOOR (OR APPROVED EQUAL)

ALL AMENITIES AND FIXTURES NOT SPECIFICALLY ITEMIZED ON THE BID TABULATION SHALL BE INCLUDED IN THE COST OF "PREFABRICATED BUILDING AND FEATURES" AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL OR HAVE INSTALLED.

- 3. RESTROOM SHALL BE: - ADA COMPLIANT
- WET SYSTEM (FULL UTILITY HOOK-UP)
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE MANUFACTURER WHAT WORK WILL NEED TO BE COMPLETED OUTSIDE OF THE SUPPLIED PACKAGE (PLUMBING AND ELECTRICAL FIXTURES, COUNTERTOPS, ECT.) 5. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO ORDERING.
- ESTIMATED BUILDING WEIGHT: 213,566 LBS . COORDINATE EXTERIOR FINNISH COLOR WITH WITH CITY OF HARRSION. BUILDING SHALL HAVE A GABLE ROOF WITH A
- COMBINATION OF TONGUE AND GROOVE AND NATURAL STONE STYLE SIDING.
- 8. RESTROOM SHALL BE FOR SEASONAL USE ONLY (MAY-SEPTEMBER). 9. DETAIL IS FOR REFERENCE ONLY.
- 10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COST ASSOCIATED WITH MANUFACTURER RECOMMENDATIONS, INCLUDING DELIVERY, OFFLOADING, UTILITY CONNECTIONS FROM 5' OUTSIDE BUILDING TO WITHIN, (WATER, SEWER, ELECTRIC), PERMITS AND FEES (BUILDING AND MEP), ENGINEERED SEALED PLANS, INSTALLATION AND START UP.

### ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE "AMERICAN CONCRETE INSTITUTE BUILDING CODE" (ACI 318) AND WITH "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301), LATEST

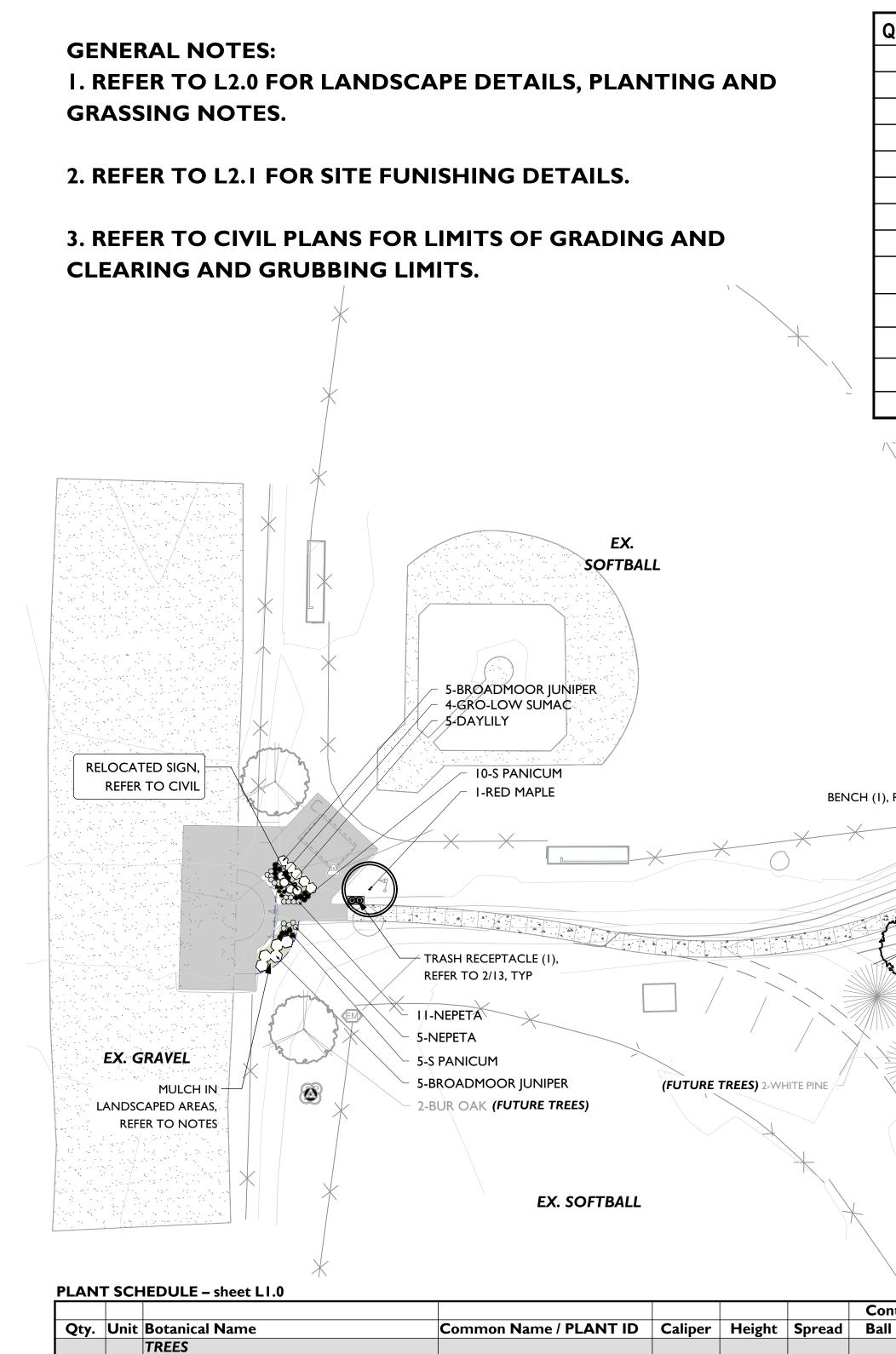
- ALL NORMAL WEIGHT CONCRETE (145 P.C.F.) SHALL OBTAIN A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF
- CONCRETE TO BE VIBRATED THOROUGHLY TO REMOVE ALL AIR POCKETS, WORK MIXTURE INTO CORNERS, AROUND
- CALCIUM CHLORIDE AND/OR ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED.
- TEST CYLINDERS SHALL BE MADE AND TESTED AS OUTLINED IN THE ACI-301 SPECIFICATION.
- COLD WEATHER CONCRETING SHALL BE DONE IN ACCORDANCE WITH ACI-306, HOT WEATHER CONCRETING SHALL
- PROVIDE DOWELS FROM WALL FOOTINGS INTO CONCRETE WALLS AND MASONRY. DOWELS SHALL MATCH SIZE AND
- SPECIFICATION A-615, GRADE 60. ALL REINFORCING AND ACCESSORIES SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH THE ACI DETAILING MANUAL, SP66, LATEST EDITION.
- REINFORCING SHALL BE LOCATED AND SECURELY HELD IN POSITION PRIOR TO PLACING ANY CONCRETE
- PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCEMENT AT THE PROPER POSITION.
- GENERAL CONTRACTOR SHALL COORDINATE ALL OPENINGS, SLEEVES, ANCHORS, HANGERS, INSERTS, SLAB DEPRESSIONS AND OTHER ITEMS RELATED TO THE CONCRETE WORK, AND SHALL ASSUME FULL RESPONSIBILITY
- NO ALUMINUM OF ANY TYPE SHALL BE ALLOWED IN THE CONCRETE WORK UNLESS COATED TO PREVENT
- NO ELECTRICAL CONDUIT SHALL BE EMBEDDED IN SLABS. PLACE TOP OF CONDUIT AT BOTTOM OF 4" SLAB SAND

# PREFABRICATED BUILDING DETAIL

€£ 824 231 231 S **ENTS** DETAIL CITY OF HARRISON **I CITY PARK IMPROVEME ED BUILDING AND FEATURES D** N 29, TOWN 19 NORTH, RANGE 04 WEST V PARK TOWNSHIP, CLARE COUNTY COUN HARRISON C PREFABRICATED SECTION 25 OF HARRISON-CITY P

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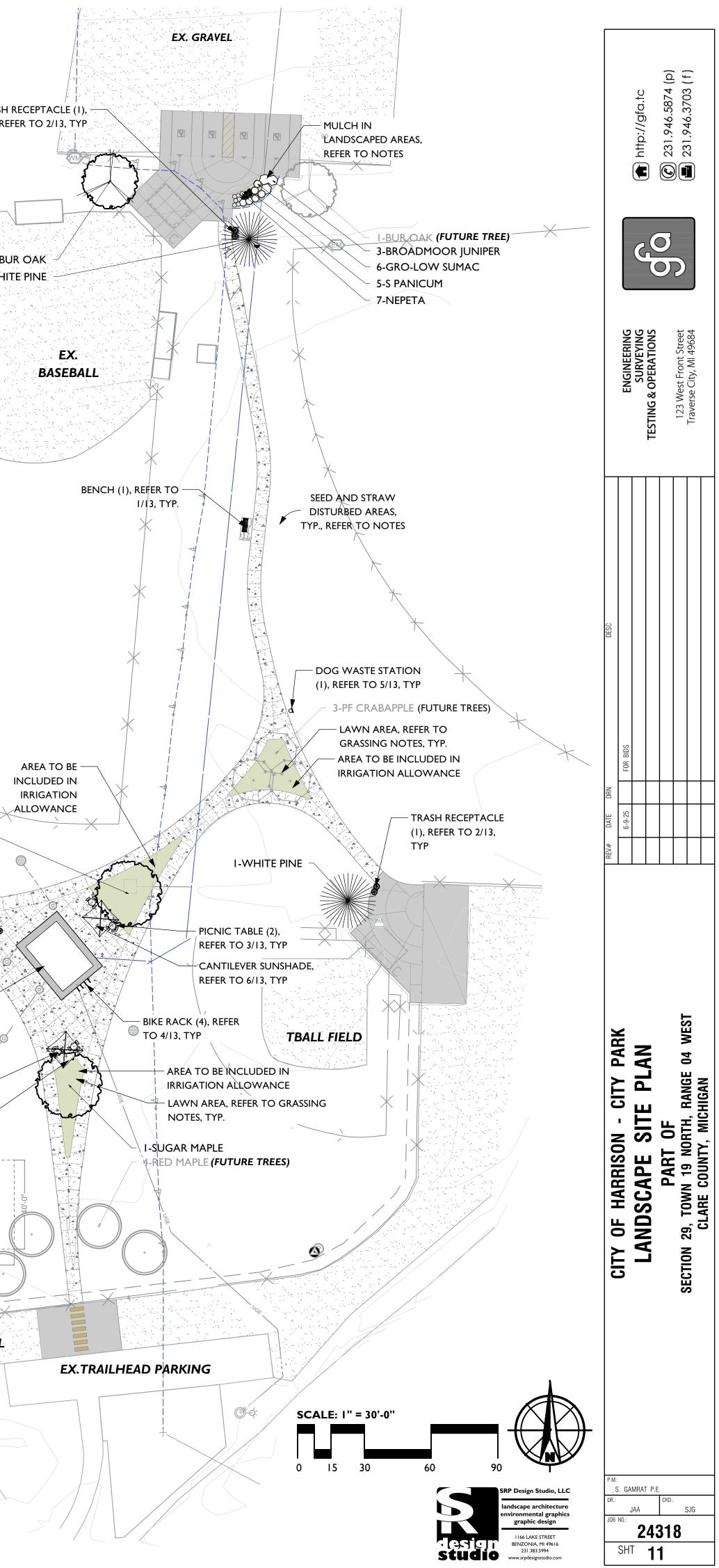
2"

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2" min. 10-12' ea. Acer rubrum 'October Glory' Red Maple 2 ea. Acer saccharum 'Legacy' Sugar Maple 2" min. 3 ea. Pinus strobus White Pine 2 ea. Quercus macrocarpa Bur Oak 2" min. | 10-12' POTENTIAL FUTURE TREES – NOTE SHOWN ON PLAN FOR REFERENCE 4 ea. Acer rubrum 'October Glory' Red Maple 2" min. 10-12' 3 ea. Malus x 'Spring Snow' Crabapple (Spring Snow) 2 ea. Pinus strobus White Pine Bur Oak 3 ea. Quercus macrocarpa 2" min. SHRUBS 13 ea. Juniperus sabina 'Broadmoor' Broadmoor Juniper 10 ea. Rhus aromatica 'Gro-low' Fragrant Sumac PERENNIALS ea. Hemerocallis x 'Happy Returns' Happy Returns Daylily 5 23 ea. Nepeta 'Walker's Low' Walker's Low Catmint NATIVE GRASSES 20 ea. Panicum virgatum 'Shenandoah' S Panicum SEED 
 Fescue Seed Mix ( 5% Bluegrass, 25% Ryegrass, 25% Hard Fescue, 45% Creeping Red Fescue)
 Refer to

 *PROVIDE COVER CROP PER SEED SUPPLIER RECOMMENDATION (SEED OATS OR WINTER WHEAT, DO NOT)
 27000 sf

AND				S SHEET		
		QTY			PAY ITEM	—
ANU		1			ANDSCAPING & RESTORATION	TRASH
		5		EA.	2" DECIDUOUS TREES	RI
		3		EA.	6 ft EVERGREEN TREE	
		23		EA.	2 GALLON SHRUB	
		48		EA.	1 GALLON PERENNIAL/GRASS	
		500		SF	LANDSCAPE AREA PREP/SOILS/MULCH	
		2700		SF	FESCUE SEED MIX/SOIL PREP	
		2700			RRIGATION ALLOWANCE (PLAZA AREAS	/
'		1			NLY)	
					UTURE TREES (SHOWN FOR INTENT ONL IOT A PART OF THIS PROJECT)	
	+	7		EA. 2	" DECIDUOUS TREES	
		3		EA. 2	" UNDERSTORY TREES	
	<u>\</u>					
		2		EA. 6	ft EVERGREEN TREE	
X	BENC	H (I), REFER TO – I/I3, TYP.		EX. TREES SEED AND STRAW DISTURBED AREAS, TYP., REFER TO NOTES	REFER T	TREE PROTECTION FENCE, PLACE AT DRIPLINE (CANOPY OF EX. TREE, NOTE THIS IS APPROXIMATELY EQUAL TO DIAMETER OF TREE IN INCHES. IE. 27" TREE = 27FT DIAMETER TREE PROTECTION FENCE), REFER TO DETAIL 7/13, TYP.
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		the set	T			I-SUGAR MAPLE
				-BUR ØAK	BENCH (I), REF	
						I3, TYP. DOG WASTE STATION (I), REFER TO 5/I3, TYP
,			, 			DOG WASTE STATION I3, TYP. (I), REFER TO 5/I3, TYP
TREES) 2-WI	HITE PINE					AREA TO BE INCLUDED IN
						IRRIGATION ALLOWANCE
						TRASH RECEPTACLE (I),
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		Cont. Size/	Spacing		· · · · · · · · · · · · · · · · · · ·	PICNIC TABLE (2), REFER TO 3/13, TYP
Height	Spread	Cont. Size/ Ball Diam.	Spacing O.C.	Comments		CANTILEVER SUNSHADE,
	Spread	Ball Diam.	0.C.	Comments		REFER TO 3/13, TYP
10-12'	Spread		<b>O.C.</b> 20'	<b>Comments</b> Strong Central Leader		CANTILEVER SUNSHADE,
10-12' 10-12' 6-7'		Ball Diam.           28-32"           28-32"           Cont. or B & B	<b>O.C.</b> 20' 20' 10'	<b>Comments</b> Strong Central Leader Strong Central Leader Unsheared; Full		CANTILEVER SUNSHADE,
10-12' 10-12'		Ball Diam.           28-32"           28-32"	<b>O.C.</b> 20' 20' 10'	<b>Comments</b> Strong Central Leader Strong Central Leader	root pruned	REFER TO 3/13, TYP CANTILEVER SUNSHADE, REFER TO 6/13, TYP
10-12' 10-12' 6-7'		Ball Diam.           28-32"           28-32"           Cont. or B & B	<b>O.C.</b> 20' 20' 10'	<b>Comments</b> Strong Central Leader Strong Central Leader Unsheared; Full Strong Central Leader, Full,	root pruned	REFER TO 3/13, TYP CANTILEVER SUNSHADE, REFER TO 6/13, TYP
10-12' 10-12' 6-7' 10-12' 8'	36" min.	Ball Diam. 28-32" 28-32" Cont. or B & B 28-32" 28-32" 28-32" 24-28"	O.C. 20' 20' 10' 20' 20' 20' per plan	Comments Strong Central Leader Strong Central Leader Unsheared; Full Strong Central Leader, Full, Strong Central Leader Strong Central Leader, Full, Sy		REFER TO 3/13, TYP CANTILEVER SUNSHADE, REFER TO 6/13, TYP
10-12' 10-12' 6-7' 10-12' // 8' 6-7'		Ball Diam.         28-32"         28-32"         Cont. or B & B         28-32"         28-32"         28-32"         Cont. or B & B	O.C. 20' 20' 10' 20' 20' 20' per plan 10'	Comments Strong Central Leader Strong Central Leader Unsheared; Full Strong Central Leader, Full, Strong Central Leader Strong Central Leader, Full, Sy Unsheared; Full	т Сапору <u> </u>	REFER TO 3/13, TYP CANTILEVER SUNSHADE, REFER TO 6/13, TYP
10-12' 10-12' 6-7' 10-12' 8'	36" min.	Ball Diam. 28-32" 28-32" Cont. or B & B 28-32" 28-32" 28-32" 24-28"	O.C. 20' 20' 10' 20' 20' 20' per plan	Comments Strong Central Leader Strong Central Leader Unsheared; Full Strong Central Leader, Full, Strong Central Leader Strong Central Leader, Full, Sy	т Сапору <u> </u>	REFER TO 3/13, TYP CANTILEVER SUNSHADE, REFER TO 6/13, TYP
10-12' 10-12' 6-7' 10-12' 8' 6-7' 10-12' 10-12'	36" min. 36" min. 36" min. 18-21"	Ball Diam.         28-32"         28-32"         Cont. or B & B         28-32"         28-32"         28-32"         28-32"         28-32"         28-32"         28-32"         28-32"         28-32"         28-32"         28-32"         28-32"         28-32"         28-32"         28-32"         28-32"	O.C. 20' 20' 10' 20' 20' 20' 20' 20' 20' 42"	Comments Strong Central Leader Strong Central Leader Unsheared; Full Strong Central Leader, Full, Strong Central Leader Strong Central Leader, Full, Sy Unsheared; Full Strong Central Leader, Full, ro Full; Compact	т Сапору <u> </u>	REFER TO 3/13, TYP CANTILEVER SUNSHADE, REFER TO 6/13, TYP
10-12' 10-12' 6-7' 10-12' // 8' 6-7' // 0-12'	36" min.	Ball Diam.         28-32"         28-32"         Cont. or B & B         28-32"         28-32"         28-32"         Cont. or B & B         28-32"         28-32"	O.C. 20' 20' 10' 20' 20' per plan 10' 20'	Comments Strong Central Leader Strong Central Leader Unsheared; Full Strong Central Leader, Full, Strong Central Leader Strong Central Leader, Full, Sy Unsheared; Full Strong Central Leader, Full, ro	т Сапору <u> </u>	PROPOSED SEPTIC AREA, REFER TO CIVIL
10-12' 10-12' 6-7' 10-12' 8' 6-7' 10-12' 10-12'	36" min. 36" min. 36" min. 18-21"	Ball Diam.         28-32"         28-32"         Cont. or B & B         28-32"         28-32"         28-32"         28-32"         28-32"         28-32"         28-32"         28-32"         28-32"         28-32"         28-32"         29-32"         29-32"         29-32"         29-32"         29-32"         29-32"         29-32"         29-32"         29-32"         29-32"         29-32"         30-30         30-30         30-30         30-30         30-30         30-30         30-30         30-30         30-30         30-30         30-30         30-30         30-30         30-30         30-30         30-30         30-30         30-30         30-30         30-30         30-30         30-30         30-30         30-30 </td <td>O.C. 20' 20' 10' 20' 20' 20' 20' 20' 42" 5'</td> <td>Comments Strong Central Leader Strong Central Leader Unsheared; Full Strong Central Leader, Full, Strong Central Leader Strong Central Leader, Full, Sy Unsheared; Full Strong Central Leader, Full, ro Full; Compact Full; Compact</td> <td>т Сапору <u> </u></td> <td>PROPOSED SEPTIC AREA, REFER TO CIVIL</td>	O.C. 20' 20' 10' 20' 20' 20' 20' 20' 42" 5'	Comments Strong Central Leader Strong Central Leader Unsheared; Full Strong Central Leader, Full, Strong Central Leader Strong Central Leader, Full, Sy Unsheared; Full Strong Central Leader, Full, ro Full; Compact Full; Compact	т Сапору <u> </u>	PROPOSED SEPTIC AREA, REFER TO CIVIL
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10-12' 10-12' 6-7' 10-12' 8' 6-7' 10-12' 12" 12" 12" 12"	36" min. 36" min. 36" min. 36" min. 18-21" 18-21" 18-21" 12" 15-18"	Ball Diam.         28-32"         28-32"         Cont. or B & B         28-32"         28-32"         28-32"         28-32"         28-32"         28-32"         28-32"         28-32"         28-32"         1 gal.         1 gal.         1 gal.	O.C. 20' 20' 10' 20' 20' 20' 20' 20' 42" 5' 5' 15" 24"	Comments Strong Central Leader Strong Central Leader Unsheared; Full Strong Central Leader, Full, Strong Central Leader Strong Central Leader, Full, Sy Unsheared; Full Strong Central Leader, Full, ro Full; Compact Full Full Full	т Сапору <u> </u>	REFER TO 3/13, TYP CANTILEVER SUNSHADE, REFER TO 6/13, TYP
10-12' 10-12' 6-7' 10-12' 8' 6-7' 10-12' 12'' 12'' 12''	36" min. 36" min. 36" min. 36" min. 18-21" 18-21" 18-21"	Ball Diam.         28-32"         28-32"         Cont. or B & B         28-32"         28-32"         28-32"         28-32"         28-32"         28-32"         28-32"         28-32"         28-32"         28-32"         1 gal.	O.C. 20' 20' 10' 20' 20' 20' 20' 20' 42" 5' 5' 15" 24"	Comments Strong Central Leader Strong Central Leader Unsheared; Full Strong Central Leader, Full, Strong Central Leader Strong Central Leader, Full, Sy Unsheared; Full Strong Central Leader, Full, ro Full; Compact Full	т Сапору <u> </u>	PROPOSED SEPTIC AREA, REFER TO CIVIL
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## **PLANTING NOTES**

1. Refer to all written specifications; adhere to Plans and Specifications for all phases of the Work. Install Native Meadow Mix per specification provided on L2.1.

2. Verify all utility locations in the field before beginning work. Repair damaged utilities to Owner's satisfaction at no additional cost.

3. Verify quantities on plans with plant schedule before pricing work.

4. All materials are subject to the approval of the Landscape Architect and Owner at any time. 5. Once unloaded from the truck, immediately stand all trees up. Do **NOT** lie the trees

down. This will reduce the risk of sunscald. 6. Plants shall meet specifications. Rootballs shall meet or exceed size standards as set

forth in 'American Standards for Nursery Stock'. Main leaders of all trees shall remain intact.

7. Mulch plant pits and planting beds with specified mulch to the depth indicated on the Drawings.

8. Prepare all topsoil used in tree and shrub pits and in groundcover beds in accordance with the specifications.

9. Remove from the site any material which turns brown or defoliates within five (5) days after planting. Replace immediately with approved specified material.

10. Maintain all plant material and lawn until project is accepted in full by the Landscape Architect/Engineer, unless otherwise specified

11. Guarantee all workmanship and materials for a period of one calendar year.

12. Install all plant material in accordance with all local codes and ordinances. Obtain any required permits necessary to complete the work.

13. Provide min. 6" of topsoil for lawn areas (12" min. over rock), min. 24" of topsoil for shrub zones, and min. 48" deep for tree pits. Refer to specific root ball size for the minimum diameter tree pit.

14. If trees are staked, the tree stakes and guys shall be regularly monitored to ensure there are no detrimental effects to the tree. All tree stakes and guys shall be removed no later than one growing season after planting.

Trees shall be first quality representatives of their species and shall meet all requirements otherwise stipulated. Landscape Architect reserves the right to reject plant material in the field, at the growing location, or at the job site at any time during the project.

NOTE: Contractor to test all tree pits for drainage. Any tree pit that holds water for more than 24 hours shall be installed using tree pit drainage methods, refer to planting details. Drainage of all planting pits is the responsibility of the Contractor.

## **GRASSING NOTES:**

1. Fescue Seed (for areas disturbed by construction operations, not otherwise planted with sod, tree, shrubs or perennials): Seed shall be true to name and meeting the specifications set forth in MDOT Section 816.

2. Provide Hay or straw mulch meeting specifications set forth in MDOT 253, Mulching. Apply at the rates set forth in MDOT 251, Seeding. For areas subject to erosion use Erosion Control Blanket, Section 255 or Refer to Civil. 3. Examine areas to be planted for compliance with requirements and other conditions affecting performance. Proceed with installation only after unsatisfactory conditions (such as excessive moisture or extreme dryness) have been corrected. 4. Soils: Loosen subgrade to a minimum depth of 4 inches. Spread planting soil for all turf areas to a depth of 6"" minimum,

12"" minimum if over rock, but not less than required to meet finish grades after light rolling and natural settlement. Do not spread if planting soil or subgrade is frozen, muddy, or excessively wet. 5. Finish Grading: Grade planting areas to a smooth, uniform surface plane with loose, uniformly fine texture. Grade to

within plus or minus ½" finish elevation. Roll and rake, remove ridges, and fill depressions to meet finish grades. 6. Seeding: Sow seed with spreader or seeding machine. Moisten prepared seedbed before planting if the soil is dry. 7. Protect seeded areas with slopes exceeding 1:4 with erosion-control blankets. Protect seeded areas with slopes not exceeding 1:4 by spreading straw mulch.

8. Maintain and establish turf by watering, fertilizing, weeding, mowing, trimming, replanting, and performing other operations as required to establish healthy, viable turf.

9. Turf installations shall meet the following criteria as determined by the Engineer. If a satisfactory stand is not established in any area, that area shall be reseeded, re-plugged, sodded, or overseeded until a satisfactory stand is established, without additional compensation.

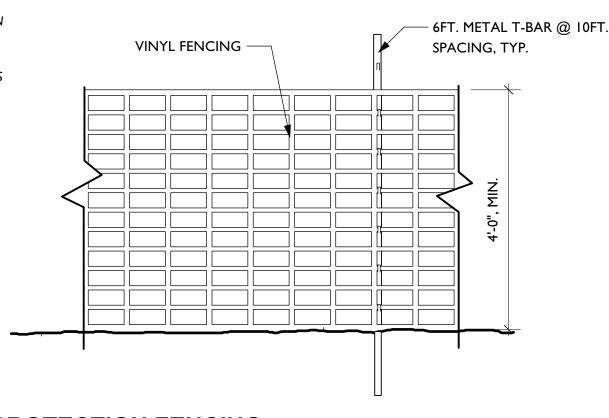
### **TREE PROTECTION NOTES:**

I. TREE PROTECTION FENCING SHALL BE ERECTED PRIOR TO THE COMMENCEMENT OF GRADING ACTIVITIES AND SHALL REMAIN IN PLACE UNTIL FINAL INSPECTION. ANY BROKEN OR DISLODGED TREE PROTECTION FENCING SHALL BE REPAIRED IMMEDIATELY.

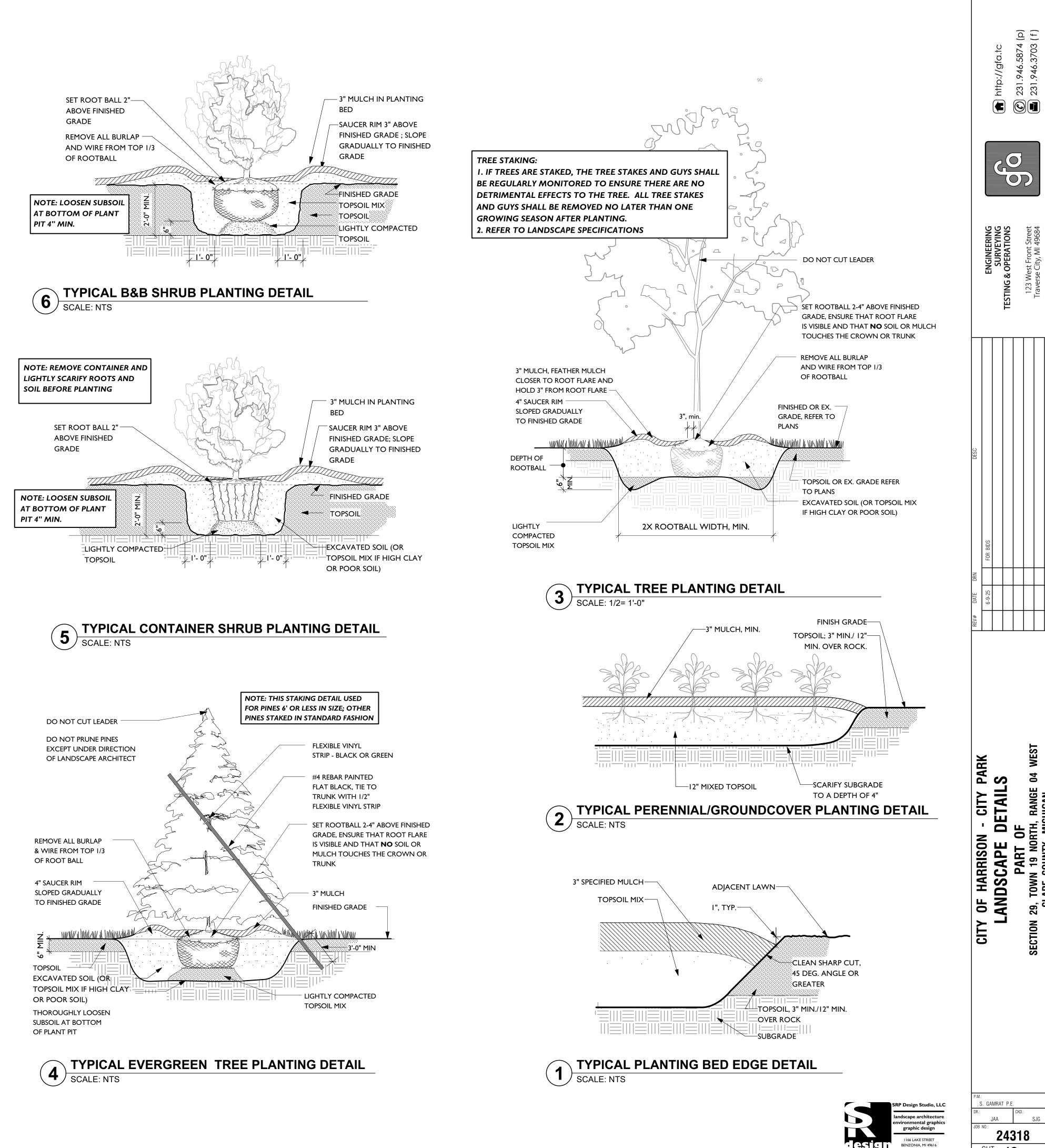
2. NO DISTURBANCES OR ANY CONSTRUCTION ACTIVITY INCLUDING CONSTRUCTION RUNOFF SHALL OCCUR WITHIN TREE PROTECTION ZONES WITH THE EXCEPTION OF WORK PERFORMED BY ARBORISTS. 3. PLACE SILT SCREENING ALONG THE OUTER UPHILL EDGE OF TREE PROTECTION ZONES.

4. TREE PROTECTION FENCING SHALL BE PROVIDED AT MINIMUM AS 4 FT TALL BRIGHT COLORED VINYL FENCING, WITH 6' METAL T-BARS AT 10'-0" SPACING O.C., SEE DETAIL.

5. EACH TREE PROTECTION ZONE SHALL RECEIVE "TREE PROTECTION ZONE" SIGN. WHERE FENCE LINE EXCEEDS 250', PLACE A MINIMUM OF ONE SIGN PER 250 LINEAR FEET







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CANTILEVER SUNSHADE NOTES:

I. PRODUCT INFORMATION: CANTILEVER SQUARE UMBRELLA SHADE (12FTX12FT)WITH ONE POST. SUNSHADE SHALL BE HEAVY PTFE TEFLON THREAD WITH LOCKSTICK SEWING. COMMERCIAL SHADE PRODUCT DESIGNED FOR 90MPH WIND AND 5PSF SNOW LOAD. FRAME TO BE STEEL, POWDERCOAT FINISH.

WILLYGOAT (www.willygoat.com) (OR APPROVED EQUAL) PH. 1-888-920-4628 EMAIL: fun@willygoat.com

2. PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL FOR SUNSHADE AND ALL RELATED PRODUCTS REQUIRED FOR THE SUNSHADE TO FUNCTION. SHOP DRAWINGS SHALL INDICATE SIZE OF CANOPY AND ENTRY HEIGHT (10FT MINIMUM), ALL PROPOSED PRODUCTS FOR OPERATION OF THE SUNSHADE, ALL MATERIALS, COLORS, FINISHES AND RECOMMENDED FOOTING FOR CANTILEVER POST (SEE ITEM 3 BELOW).

3. POST FOOTING: PROVIDE SHOP DRAWINGS FOR THE FOOTING AND PROPOSED MOUNTING SYSTEM FOR THE CANTILEVER POST. FOOTING SHALL BE PER MANUFACTURER RECOMMENDATION AND DESIGNED TO MEET LOCAL CODES.

GENERAL SITE FURNISHING NOTES (BENCH, TRASH, TABLE, BIKE RACK AND DOG WASTE STATION):

### I. PRODUCTS:

A. BENCHES, TRASH RECEPTACLES, BIKE RACKS, HEXAGON PICNIC TABLES AND DOG WASTE STATION TO BE PROVIDED BY ONE OF THE FOLLOWING MANUFACTURERS (OR APPROVED EQUAL.)

BELSON OUTDOOR (www.belson.com/) PH. 1-800-323-5664 EMAIL: sales@belson.com

WILLYGOAT (www.willygoat.com) PH. 1-888-920-4628 EMAIL: fun@willygoat.com

KAY PARK RECREATION (www.kaypark.com) PH: 866-741-8266

**B.** REFER TO MODEL # ON DETAIL, BELSON MODEL NUMBERS SHOWN FOR REFERENCE, OTHER MANUFACTURE MAY BE A DIFFERENT MODEL, REFER TO REQUIRED SUBMITTALS BELOW FOR ENGINEER APPROVAL.

2. REQUIRED SUBMITTALS:

A. PRODUCT DATA: INCLUDE PHYSICAL CHARACTERISTICS SUCH AS SHAPE, DIMENSIONS AND FINISH FOR EACH PRODUCT. INCLUDE WARRANTY DATA FOR EACH PRODUCT.

**B. SHOP DRAWINGS: PROVIDE INSTALLATION DETAILS FOR EACH PRODUCT.** 

C. SAMPLES FOR VERIFICATION: SHOW THE COLOR OF THE POWDER COAT FINISH FOR APPROVAL. SHOW COLOR CHARTS FOR RECYCLED PLASTIC FOR APPROVAL.

D. MAINTENANCE DATA: FOR EACH PRODUCT. PROVIDE RECOMMENDED METHODS FOR REPAIRING DAMAGE AND ABRASIONS TO THE POWDER COAT FINISH.

3. MATERIALS:

A. BENCHES, TRASH AND PICNIC TABLES TO USE RECYCLED PLASTIC LUMBER FOR SLATS.

B. BIKE RACKS: RACK ASSEMBLY SHALL BE MANUFACTURED FROM STEEL TUBING AND STEEL PLATE PER MANUFACTURER.

C. DOG WASTE STATION TO BE ALUMINUM WASTE RECEPTACLE WITH GALVANIZED MOUNTING POST. CLIENT TO APPROVE SIGN MESSAGE.

4. FINISHES:

A. SITE FURNISHINGS: ALL STEEL MEMBERS TO BE POWDER COATED BLACK OR WITH COLOR TO BE DETERMINED BY THE OWNER/ENGINEER. PROVIDE COLOR CHARTS FOR REVIEW, SEE REQUIRED SUBMITTALS.

5. EXECUTION:

A. HANDLE AND INSTALL SITE FURNISHINGS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND **INSTALLATION INSTRUCTIONS.** 

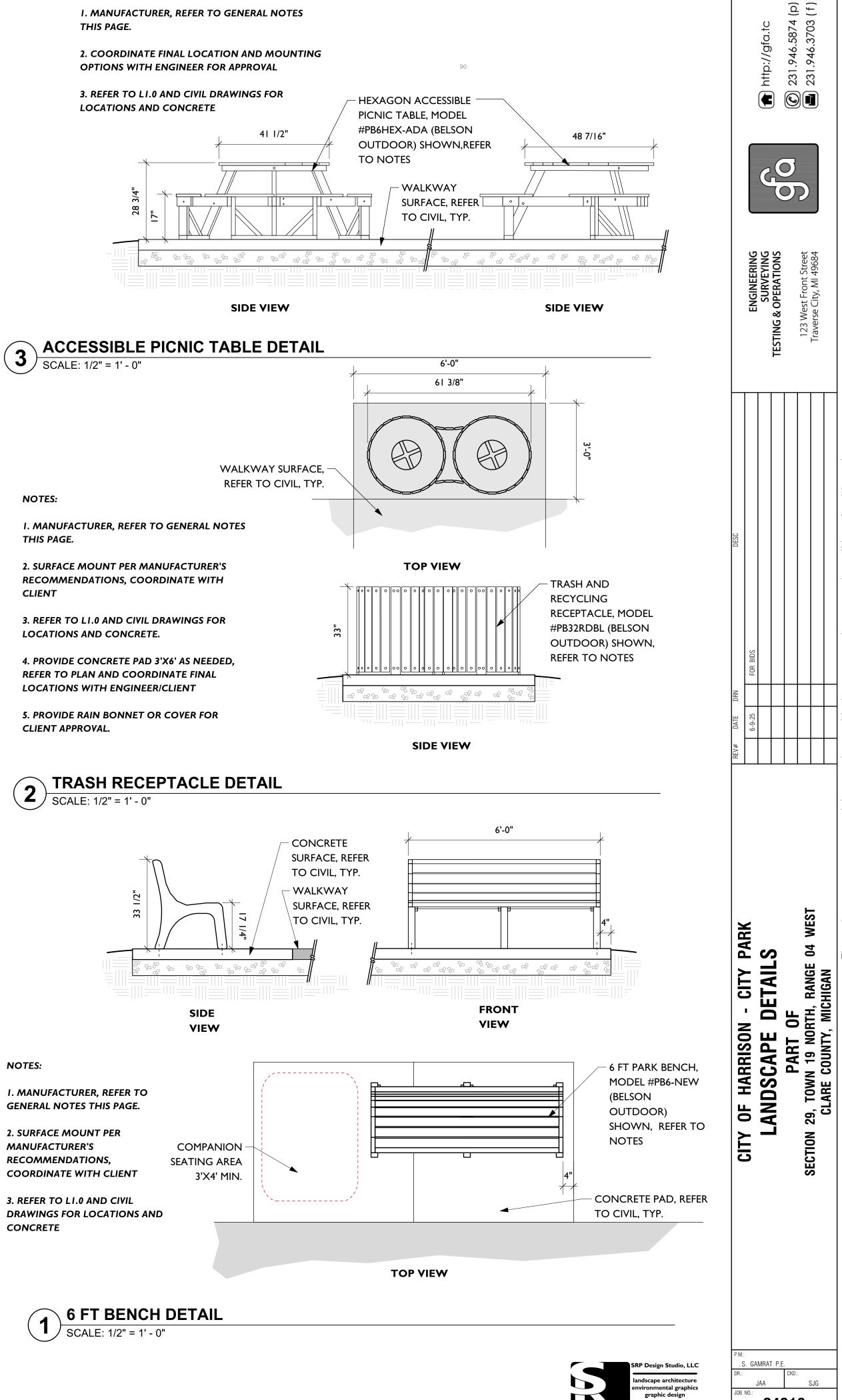
**B. STORE PRODUCTS IN ORIGINAL UNDAMAGED PACKAGING IN A DRY LOCATION UNTIL READY FOR** INSTALLATION.

C. BENCH, TRASH, AND BIKE RACK TO BE SURFACE MOUNTED TO CONCRETE PER MANUFACTURER'S **RECOMMENDATIONS, FINAL LAYOUT TO BE APPROVED BY ENGINEER BEFORE INSTALLATION.** 

D. COORDINATE MOUNTING AND FINAL PLACEMENT OF PICNIC TABLES WITH ENGINEER.

NOTES:

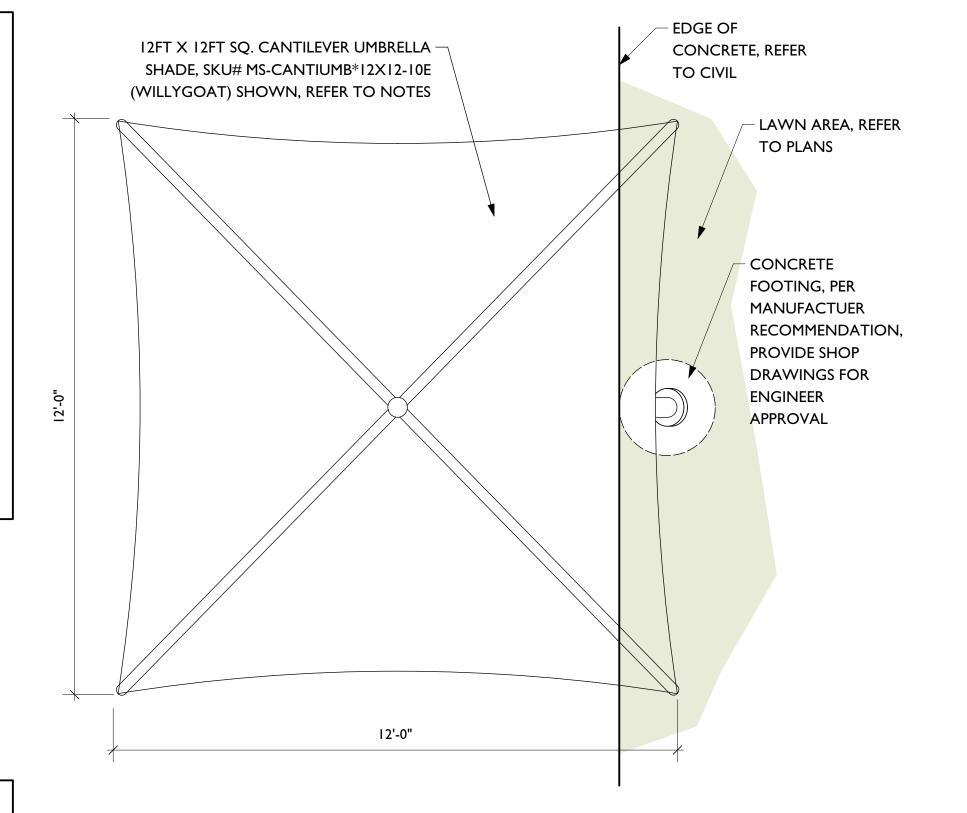












PET WASTE TRANSMITS DISEASE

PLEASE KEEP THIS AREA CLEAN

12-1/2"

B ► PLEASE CLEAN AFTER YOUR DO

D ►

- DOG WASTE STATION,

MODEL #PBARK-467

SHOWN, REFER TO

NOTES

(BELSON OUTDOOR)



NOTES:

I. MANUFACTURER, REFER TO GENERAL NOTES THIS PAGE.

6 CANTILEVER SUN SHADE SCALE: 1/2" = 1' - 0"

2. PRODUCTS TO INCLUDE: A. PET SIGN 18"X11.5", REFLECTIVE ALUMINUM

B. BAG DISPENSER, 15.5"X9.5"X3.25" (APPROX)

C. TRASH RECEPTACLE WITH LID (ALUMINUM OR RECYCLED, COLOR TO BE APPROVED BY ENGINEER) D. STEEL MOUNTING POST, 2"SQ. X 8FT, 11 GA. GALVANIZED STEEL.

3. COORDINATE QUANTITY AND LOCATION WITH ENGINEER FOR APPROVAL BEFORE INSTALLATION





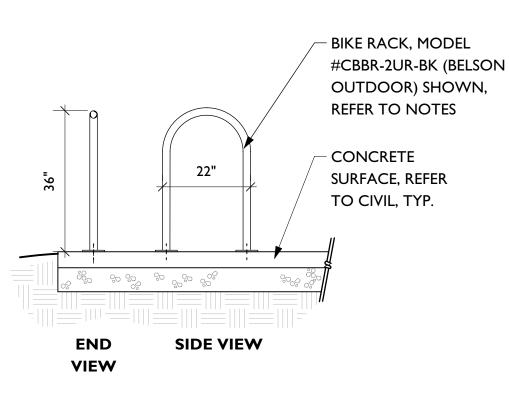


I. MANUFACTURER, REFER TO GENERAL NOTES THIS PAGE.

2. SURFACE MOUNT PER MANUFACTURER'S **RECOMMENDATIONS**, COORDINATE WITH CLIENT

3. REFER TO LI.0 AND CIVIL DRAWINGS FOR LOCATIONS AND CONCRETE





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