

AGENDA

Cemetery-Parks Commission Meeting

Wednesday, January 15, 2025 @ 5:00 PM

Zeeland City Hall, 21 S. Elm Street, Zeeland, MI 49464 / 2nd Floor Council Chambers

Commissioners:

- Mayor Pro Tem Sally Gruppen, City Council Representative
- John Query, Cemetery & Parks Commission Chair
- Susan Lucas, Commissioner
- Amy Langeland, Commissioner
- Thom Parker, Commissioner
- Ashley Kiekintveld, Commissioner
- Lynette Lam, Commissioner

Additional Attendees:

- Kevin Plockmeyer, Assistant City Manager & Finance Director
- Susan Moore, Administrative Assistant

- 1) Approval of December 11, 2024 Meeting Minutes
- 2) Hoogland Park Design Discussion
- 3) FY26 Rates and Fees
- 4) Other
 - a) Burial Report
 - b) Public Concerns

Agenda Distribution:

City Clerk-Posting Copy
Cemetery-Parks Commissioners
City Council
City Manager

MEETING MINUTES

DATE: Wednesday, December 11, 2024

COMMISSION MEMBERS: John Query, Commission Chair
Sally Gruppen, Mayor Pro Tem
Amy Langeland, Commissioner
Lynette Lam, Commissioner
Thom Parker, Commissioner
Sue Lucas, Commissioner

ABSENT: Ashley Kiekintveld, Commissioner

CITY STAFF: Kevin Plockmeyer, Assistant City Manager/Finance Director
Susan Moore, Administrative Assistant

I. Approval of November 13, 2024, Meeting Minutes

Motion: Mayor Pro Tem Sally Gruppen

Support: Thom Parker

All in favor, motion approved.

II. Hoogland Park Design Discussion

Kevin Plockmeyer presented some modifications to the overall design plan. These include:

- The property lines for the park had to be adjusted to reflect the boundaries between the city's property and that of MDOT; some park design modifications were made by MC Smith as a result to ensure everything fit within the boundaries of city property (with some things shifted to the north).
- Large cotton tree removed.
- Fencing will be installed around the perimeter of the park and tie into MDOT's existing fence except for the front entrance by the restroom building and parking lot section (but there will be a seat wall in this area) of the park.
- The Frank Hoogland memorial sign is proposed to be installed in the north side area of the parking lot.
- Lighting: Can-style lights are proposed for the restroom building and inside the picnic shelter. Kevin Plockmeyer is working with the Zeeland Board of Public Works to determine if an additional streetlight is warranted.
- Restroom Building: Doors will be facing outward toward the playground. These restrooms are not intended to be heated (in line with other park restroom facilities). Drinking fountain with a bottle filler. (BJW) Berghorst contacted the city and has offered to donate the (plumbing) fixtures for this building. Brick exterior, have colors match those of the Cemetery building with a brown metal roof.
- Playground Equipment: Kevin Plockmeyer reported that staffs understanding of the tower structure proposed by Game Time/Sinclair was incorrect. It does not allow for wheelchair accessibility all the way to the top of the tower. He also confirmed that the cost of that structure is \$462K. He reached out to Matt Lawton (Lawton Associates) and requested updated design plans that included equipment that allowed for some accessibility off the ground. These plans included:
 - Ramp for added ADA accessibility
 - Additional swings
 - Commissioner Amy Langeland asked if adaptive panels were included. Kevin Plockmeyer will verify this.
 - Cost of this proposed playground equipment is @ \$290K

- Mayor Pro Tem Sally Gruppen asked if the existing play equipment has any re-use/resale value. Kevin Plockmeyer responded that most of this equipment does not.

The Commission liked the proposed equipment concept overall and Kevin Plockmeyer will request updated plans from Game Time/Sinclair so that the commission will have a more accurate apples to apples comparison from both vendors to consider at their next meeting.

- Playground surfacing options were also reviewed and the Commission preferred Engineered Wood Fiber for the swing set play area and Poured in Place surfacing for the two other playground equipment areas.

Other Items

Burial Report: From the packet – Since November 8, 2024:

- Burials – 6 at Lincoln (2 resident / 4 non-resident) / 0 at Felch (0 resident / 0 non-resident)
- Sales – 1 at Lincoln (0 resident / 1 non-resident) / 4 at Felch (0 resident / 4 non-resident)
- Transfers – 2
- Sale Back to City – 1 at Lincoln

Other Items

- **Huizenga Park Pickle Ball Court Lighting:** Kevin Plockmeyer informed the commission that he received the updated drawings & cost estimate for this proposed lighting yesterday and it came in significantly higher (\$220K) than what staff have budgeted at this time (\$50-70K) and requested the commissions feedback on how to proceed. Commissioners were still in favor of the lighting but would like to see if it's possible to lower the cost. Kevin Plockmeyer will work with the engineer to see what could be done.
- **Vande Luyster Square Gazebo:** Commission Chair John Query asked about the status of this structure. Kevin Plockmeyer noted that the structure is in pretty rough shape, and it should be looked at sooner rather than later.
- Commissioner Amy Langeland mentioned “bucket breakers” type of play equipment that allows for children in wheelchairs to shoot basketballs from their chairs and the ball comes back to them. It would be nice to try to incorporate this equipment into a park.

Public Comment: Nothing noteworthy.

The meeting was adjourned at @ 5:50 PM.

NEXT MEETING: Next regularly scheduled meeting is January 8, 2025, at 5:00 PM.

RECORDED BY:

Susan Moore, Administrative Assistant



21 South Elm Street • Zeeland, Michigan 49464 • (616) 772-6400 • FAX (616) 772-5352

INTEROFFICE MEMORANDUM

TO: Cemetery and Parks Commission
FROM: Kevin Plockmeyer, ACM of City Services/Infrastructure and Finance
SUBJECT: Hoogland Park Design Considerations
DATE: January 15, 2025

At the Commission's last meeting, we continued the process of working through the design for the reconstruction of Hoogland Park. At your meeting the Commission made the following recommendations:

- Affirmed the overall layout of the park. Attached to this memo is an updated set of plans which we will review with the commission. This updated plan set continues to fill in the gaps since our last review. At Wednesday's meeting, we will work through the plans with the commission and seek your feedback.
- Affirmed the playground layout which offered ADA access to activities not at ground level and sought to see an "or-equal" product from Game Time. Attached to this cover sheet are copies of both sets of playgrounds. As you will see from the plans, both options are fairly similar to each other. At Wednesday's meeting, we will seek your input on the overall playground design and discuss purchase options. Per the request of the commission, we did evaluate the addition of a "bucket ball" play structure. We asked the MCSA Group to evaluate this and their recommendation was not to include this type of equipment within this playground equipment due to the space required and the type of surfacing proposed. The current plans follow this recommendation of the MCSA Group and does not include this apparatus
- Affirmed the type of surfacing for each section of the playground. At Wednesday's meeting, we would like feedback from the Commission as to the design of the poured-in-place surfacing. (We intend to distribute updated surfacing plans to the commission prior to Wednesday's meeting.)

Overall, we are quite pleased with the progress of the project. While there are still a few items that need to be addressed in the project budget, we are hopeful that the project will cost less than our original \$1.7 Million dollar budget (please see attached budget). Thanks to the commission for their work on the project. We are looking forward to hearing from the Commission on Wednesday evening.

FEEL THE ZEEL



21 South Elm Street • Zeeland, Michigan 49464 • (616) 772-6400 • FAX (616) 772-5352

A handwritten signature in black ink, appearing to read 'K. Plockmeyer', is positioned above a horizontal line.

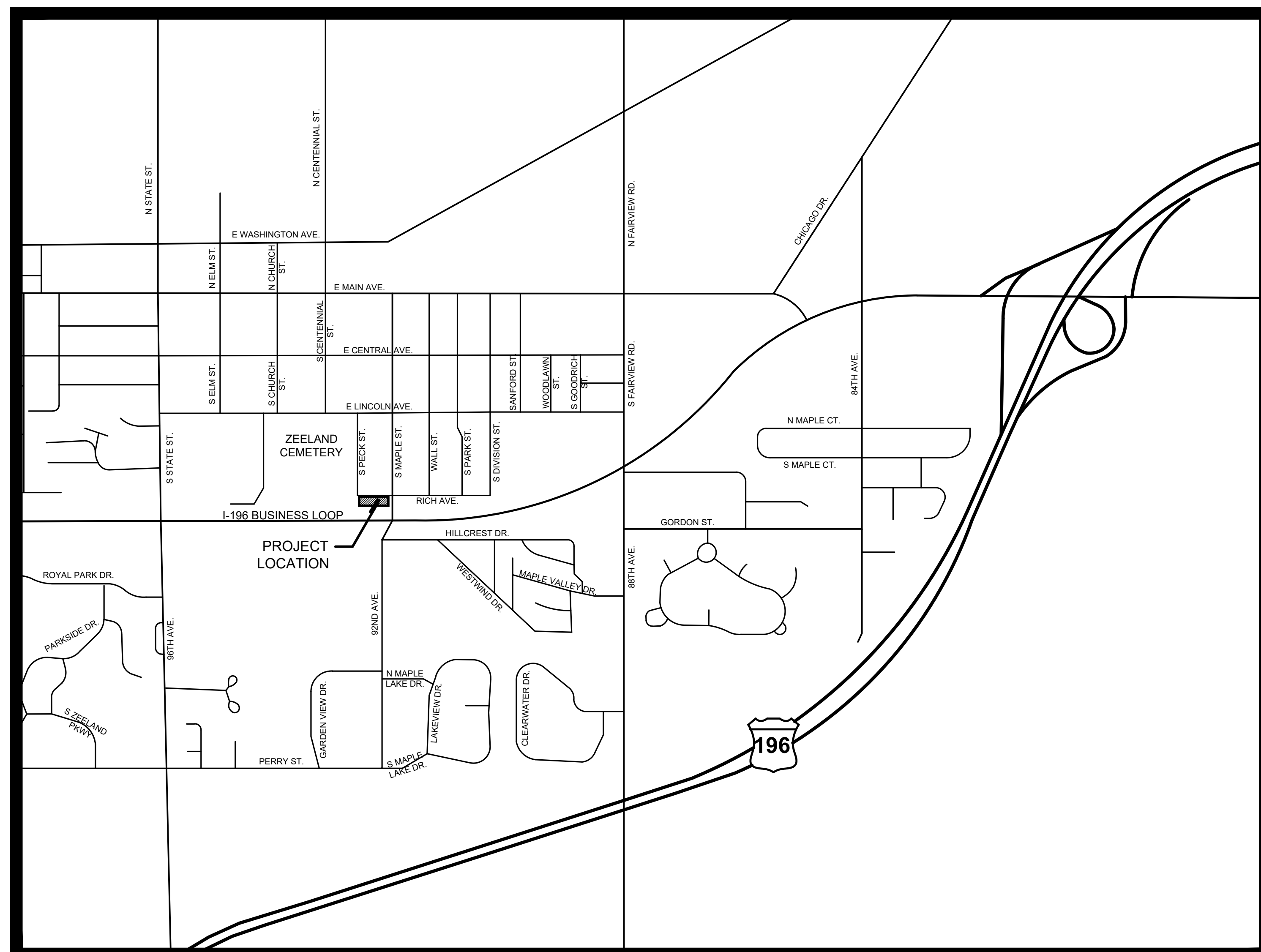
Kevin Plockmeyer, ACM of City Services/Infrastructure and Finance

FEEL THE ZEEL

CONSTRUCTION PLANS

HOOGLAND PARK IMPROVEMENTS

CITY OF ZEELAND, MICHIGAN
 PROGRESS MEETING 1.8.2025



LOCATION MAP

NOT TO SCALE 

CONSULTING TEAM MEMBERS:

**Geotechnical
 Soils & Structures**
 6480 Grand Haven Rd.
 Muskegon, MI 49441
 (800) 933-3959

Topographic Survey & Civil Engineering
Moore & Bruggink Inc.
 2020 Monroe Ave.
 Grand Rapids, MI 49505
 (616) 363-9801

Structural, Mechanical, Electrical & Plumbing Engineering
Classic Engineering, LLC.
 100 Cesar E. Chavez Ave. SW Suite 400
 Grand Rapids, MI 49503
 (616) 742-2810

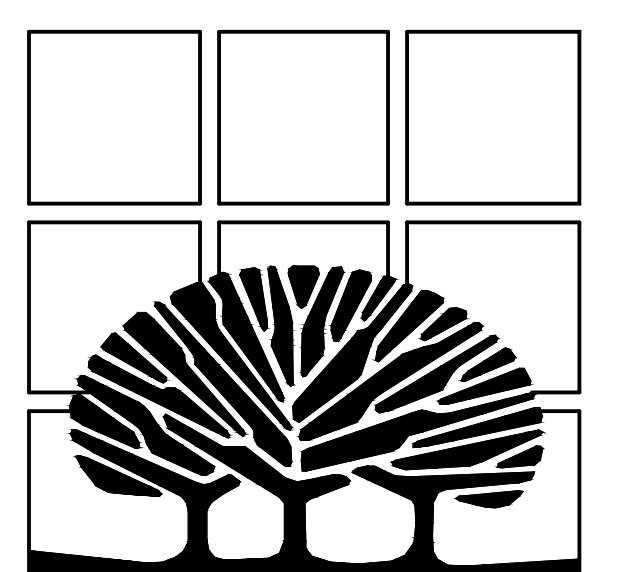


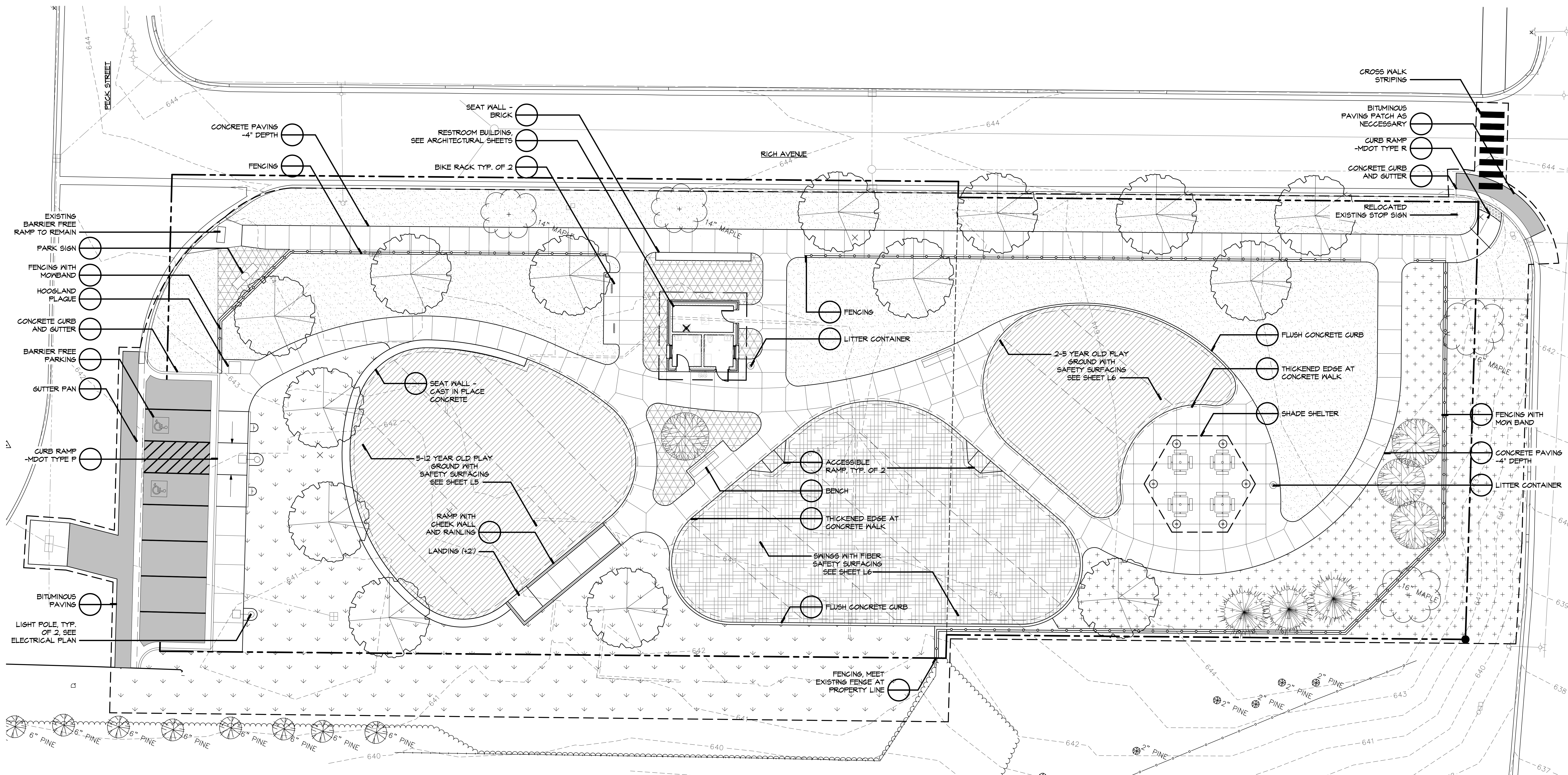
SHEET INDEX

L1	Site Plan
L2	Existing Conditions & Removals Plan
L3	Layout Plan
L4	Landscape and SESC Plan
L5-6	Playground Enlargement Plans
L7-9	Construction Details
IR1	Irrigation Plan
IR2	Irrigation Details
C1	Grading and Drainage Plan
C2	Utility Plan
A1	Floor / Roof Plans, Schedules
A2	Exterior Elevations, Sections
A3	Interior Elevations, Sections
S0	Structural Notes
S1	Structural Plans and Details
P1	Plumbing Floor Plan
M1	Mechanical Floor Plan
E1	Electrical Floor Plan
E2	Site Electrical Plan
E3	Electrical Details, Schedules and One-Lines
1 of 1	Topographic Survey

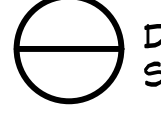
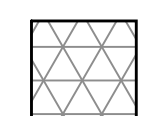
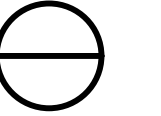
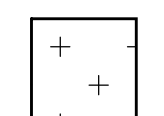
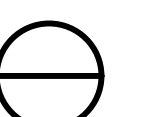
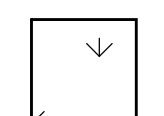




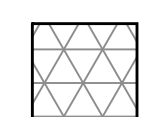
MCSA GROUP, INC.

Landscape Architecture • Park & Recreation Planning • Architecture
 Downtown Planning • Interior Design • Sports Facility Planning
 529 Greenwood Avenue S.E. • East Grand Rapids, MI 49506
 616-451-3346 • FAX: 616-451-1935 • EMAIL: tas@mcsagroup.com





LEGEND

	DETAIL NUMBER SHEET NUMBER		SHRUB PLANTING BED
	BITUMINOUS PAVING		NATIVE SEEDING
	CONCRETE PAVING - 4" DEPTH		RAIN GARDEN SEEDING
	WOOD FIBER SAFETY SURFACING		LAWN SEEDING
	RUBBER SAFETY SURFACING		APPROXIMATE LIMIT OF WORK
	SHRUB PLANTING BED		

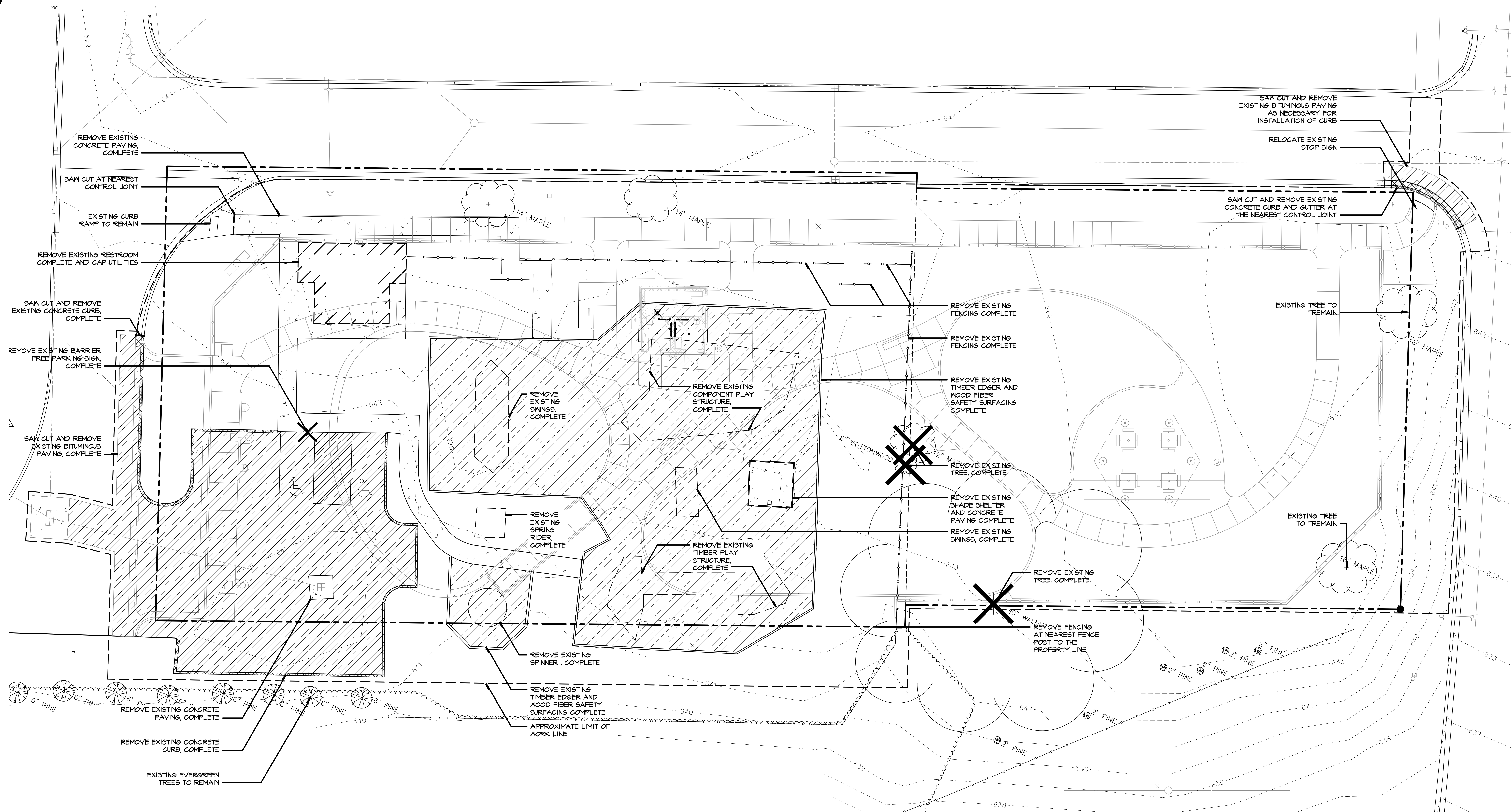
SITE GENERAL NOTES:

1. SITE PLAN SHOWN FOR GENERAL INFORMATION AND DETAIL REFERENCE ONLY. SEE FOLLOWING PLAN SHEETS FOR SITE REMOVALS, EXISTING CONDITIONS, LAYOUT, GRADING, AND PLANTING INFORMATION.

COMPLIANCE:

- ALL CONSTRUCTION SHALL CONFORM TO ALL ASPECTS OF THE STATE OF MICHIGAN BUILDING CODE (MBC), THE ADA ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES (ADAAG) AND THE AMERICANS WITH DISABILITIES ACT (ADA). ALL WORK BY THE CONTRACTOR FOR COMPLETE EXECUTION OF THIS PROJECT SHALL MEET OR EXCEED LAWS, GUIDELINES, AND STATUTES IN EVERY SITUATION. IN THE EVENT THE CONTRACTOR BELIEVES THAT ANY PORTION OF THE WORK IS INCONSISTENT WITH THE MBC, ADAAG, AND ADA THEY MUST IMMEDIATELY INFORM THE LANDSCAPE ARCHITECT.

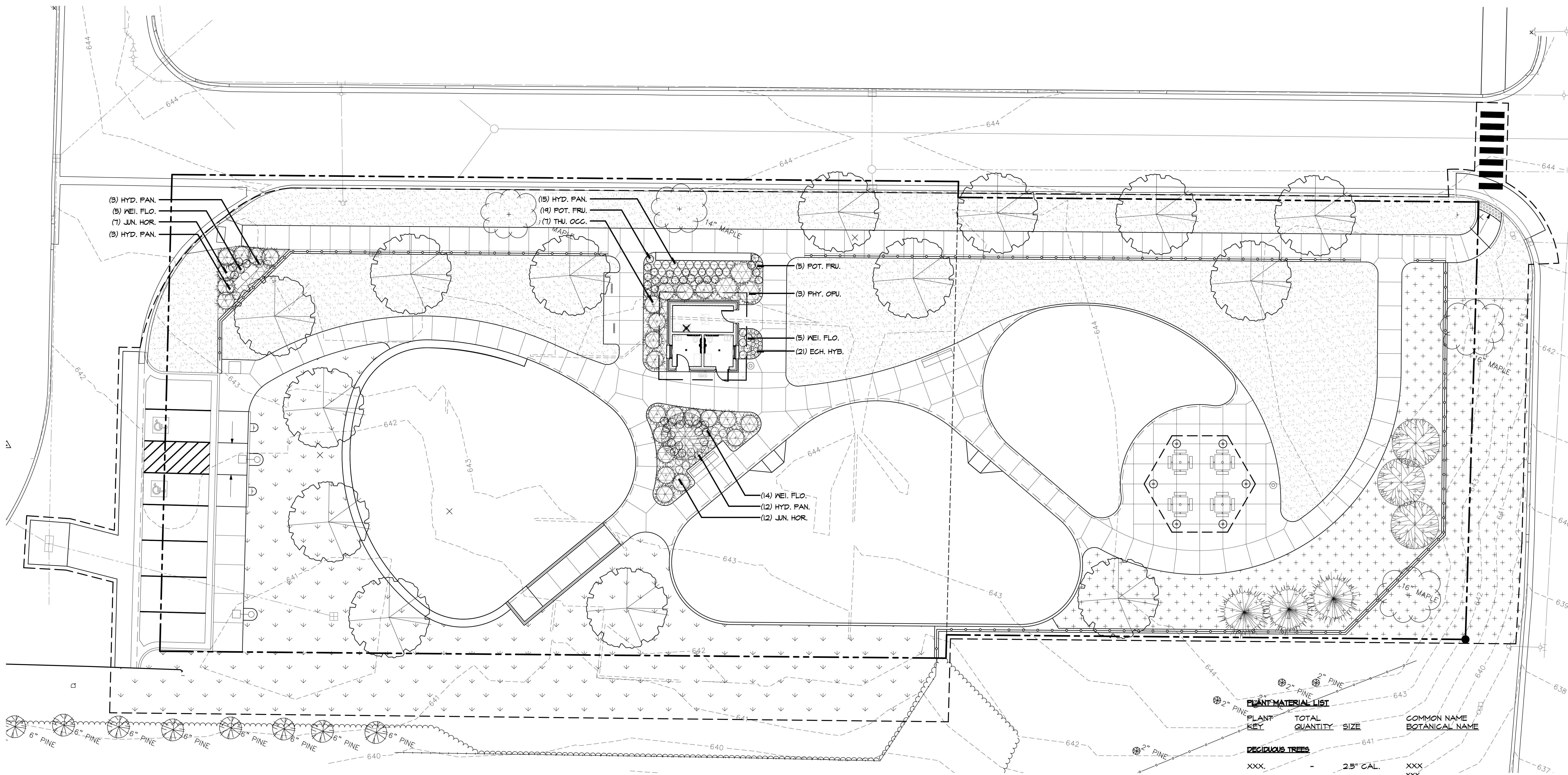
PROGRESS MEETING



EXISTING CONDITIONS AND REMOVALS NOTES:

1. SURVEY PROVIDED BY:
MOORE AND BRUGGINK, INC.
PHONE: 616-363-9801
2. THE CONTRACTOR IS TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION OPERATIONS. CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGES TO UTILITIES CAUSED BY THEIR WORK. CONTACT MISS DIG FOR CONFIRMATION OF UTILITY LOCATIONS (1-800-482-7171).
3. PROTECT ALL TREES. DO NOT OPERATE EQUIPMENT, STORE, STOCKPILE, OR PARK WITHIN DRIPLINE OF TREES. HOLD NECESSARY DISTURBANCE TO A MINIMUM.
4. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR DAMAGE TO ITEMS NOT SCHEDULED FOR REMOVAL.
5. REMOVAL ITEMS SHOWN ARE BASED ON BEST AVAILABLE INFORMATION AND ARE SHOWN SCHEMATICALLY. THE CONTRACTOR SHALL WALK THE SITE PRIOR TO BID TO BE FULLY FAMILIAR WITH THE EXTENT OF REMOVAL ITEMS. THE CONTRACTOR IS RESPONSIBLE FOR ALL REMOVALS NECESSARY TO COMPLETE CONSTRUCTION. QUESTIONS REGARDING ITEMS TO BE REMOVED SHALL BE DIRECTED TO THE LANDSCAPE ARCHITECT.
6. CONTRACTOR SHALL STRIP AND STOCKPILE TOPSOIL AND DISTRIBUTE A MINIMUM OF 4" OF TOPSOIL, UNLESS OTHERWISE NOTED, ON ALL DISTURBED AREAS AT COMPLETION OF SITE GRADING. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED PER PLANTING PLANS AND SPECIFICATIONS.
7. WHEN TREE ROOTS ARE ENCOUNTERED THEY SHALL BE CUT CLEANLY NOT RIPPED OR TORN.

PROGRESS MEETING



PLANT MATERIAL LIST

PLANT KEY	TOTAL QUANTITY	SIZE	COMMON NAME	BOTANICAL NAME
-----------	----------------	------	-------------	----------------

DECIDUOUS TREES

XXX	-	2.5" CAL.	XXX	xxx
XXX	-	2.0" TF	XXX	xxx

EVERGREEN TREES

XXX	-	6' HT.	XXX	xxx
-----	---	--------	-----	-----

EVERGREEN SHRUBS

JUN. HOR.	-	NO. 3 CONT.	BLUE CHIP JUNIPER	<i>Juniperus horizontalis</i> 'Blue Chip'
THU. OCC.	-	NO. 3 CONT.	HETZ MIDGET ARBORVITAE	<i>Thuja occidentalis</i> 'Hetz Midget'

DECIDUOUS SHRUBS

HYD. PAN.	-	NO. 3 CONT.	FIRE LIGHT TIDBIT HYDRANGEA	<i>Hydrangea paniculata</i> 'SMNHPK'
PHY. OFU.	-	NO. 3 CONT.	DIABOLO NINEBARK	<i>Physocarpus opulifolius</i> 'Monlo'
POT. FRU.	-	NO. 3 CONT.	HAPPY FACE YELLOW POTENTILLA	<i>Potentilla fruticosa</i> 'Lundy'
WEI. FLO.	-	NO. 3 CONT.	SPILLED WINE WEIGELA	<i>Weigela florida</i> 'Bokrasplwi'

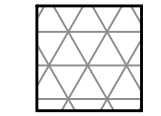
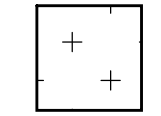
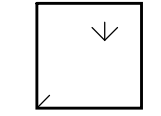
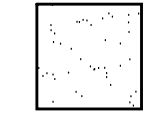
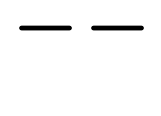
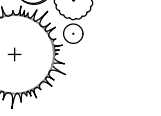
PERENNIALS

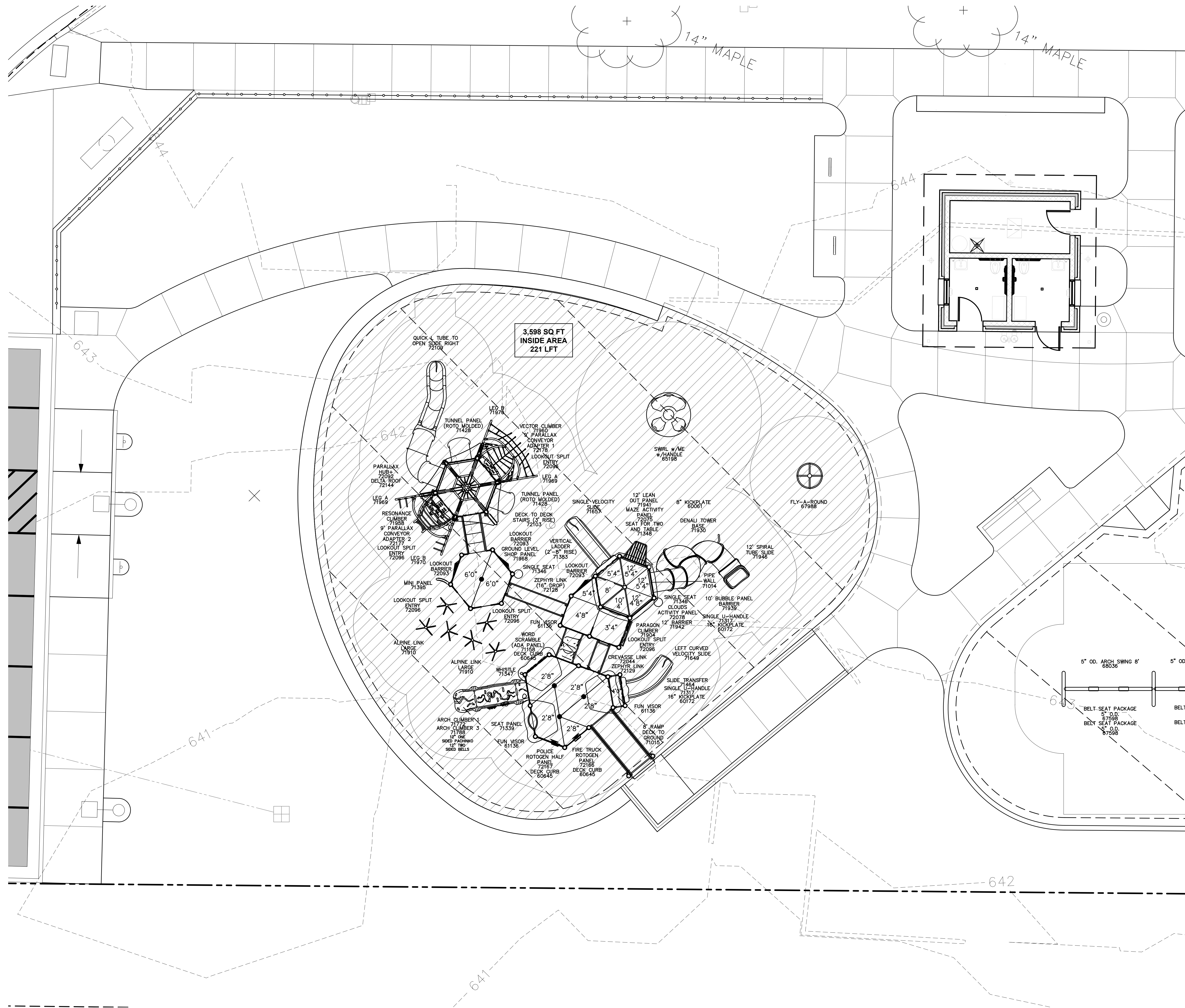
ECH. HYB.	-	1 GAL.	SOMBREIRO LEMON YELLOW IMPROVED CONEFLOWER	<i>Echinacea hybrid</i> 'Balsomemylm'
-----------	---	--------	--	---------------------------------------

LANDSCAPE NOTES

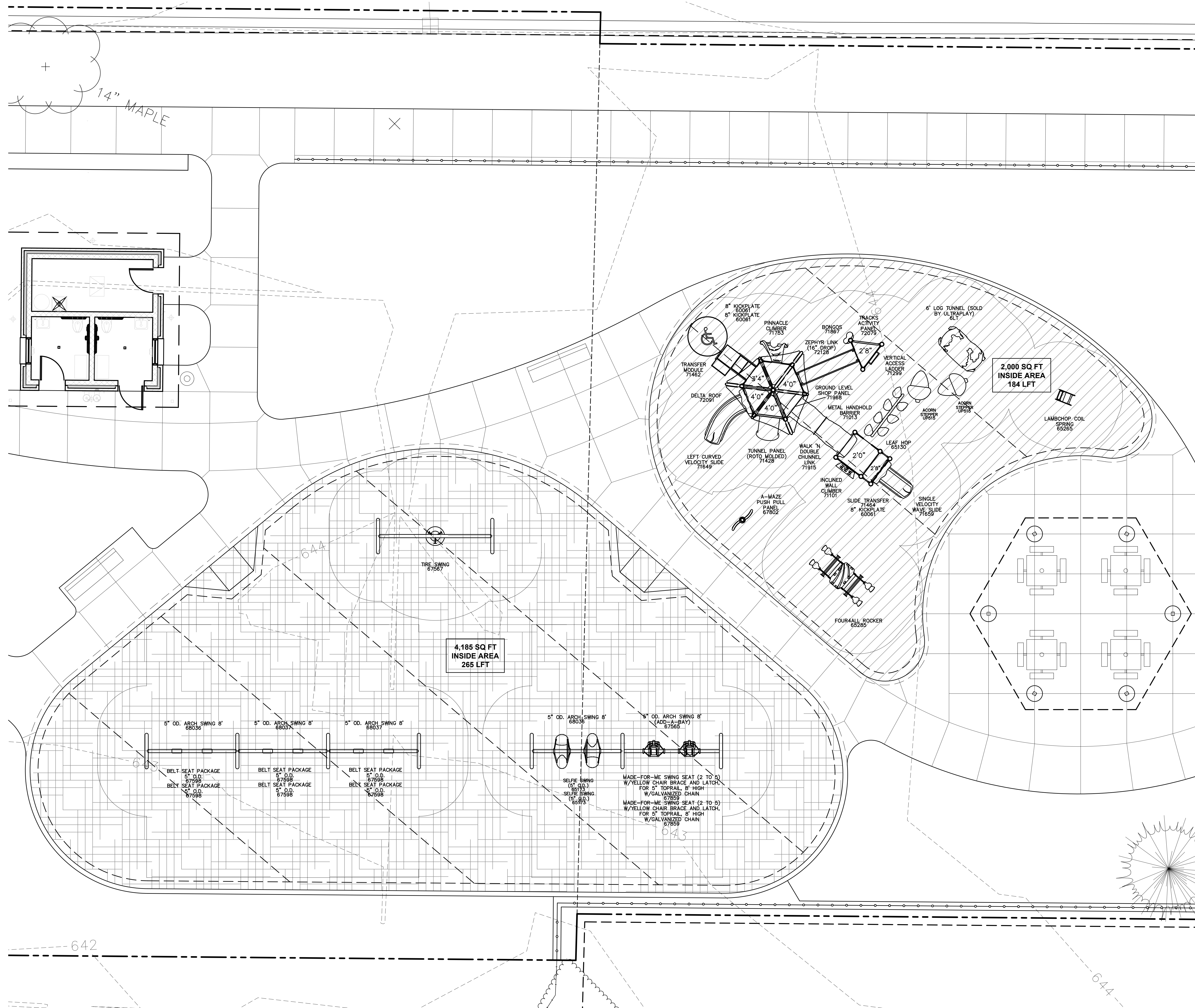
1. PLANTING SOIL AND MULCH FOR ALL TREES, SHRUBS, AND PERENNIALS SHALL BE AS PER APPROPRIATE DETAIL.
2. ALL TREES TO BE STAKED BY THE CONTRACTOR FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO ANY INSTALLATION.
3. TREES SHALL BE FURNISHED, BALLED, AND BURLAPPED.
4. SEED ALL DISTURBED AREAS. SEED LIMIT LINE (LIMITS OF DISTURBANCE) IS APPROXIMATE, ALL DISTURBED AREAS SHALL BE SEEDED AND RESTORED, UNLESS OTHERWISE NOTED.
5. SEE SPECIFICATION FOR SEED MIX.
6. CONTRACTOR TO FURNISH AND INSTALL 4" MINIMUM OF SCREENED TOPSOIL ON ALL AREAS TO RECEIVE SEED. EXISTING ON SITE TOP SOIL MAY BE USED. IT MUST BE TESTED AND AMENDED PER SPECIFICATIONS. IF THERE IS NOT ENOUGH TOPSOIL TO ACHIEVE A MINIMUM OF 4" DEPTH, THEN TOP SOIL SHALL BE IMPORTED.
7. FINISH SURFACE OF SEEDED LAWN SHALL BE 1" BELOW TOP FINISH SURFACE OF WALK TO ALLOW FOR GROWTH OF TURF.
8. SEE PLANTING DETAILS ON SHEET LX.

LANDSCAPE LEGEND

-  SHRUB PLANTING BED
-  NATIVE SEEDING
-  RAIN GARDEN SEEDING
-  LAWN SEEDING
-  APPROXIMATE LIMIT OF WORK
-  PROPOSED SHRUBS AND PERENNIALS



- LAYOUT GENERAL NOTES**
1. ALL LAYOUT IS TO BE STAKED BY THE CONTRACTOR FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
 2. NORTHINGS AND EASTINGS REFLECT MAJOR END POINTS OF SITE ELEMENTS AND POST CENTERS FOR PLAYGROUND EQUIPMENT. THESE NORTHINGS AND EASTINGS MAY ONLY BE ADJUSTED WITH THE APPROVAL OF THE LANDSCAPE ARCHITECT.
 3. CONTRACTOR SHALL VERIFY IN THE FIELD ALL LINES AND DIMENSIONS INDICATED IN THE PLANS AND REPORT ANY INCONSISTENCIES TO THE LANDSCAPE ARCHITECT FOR RESOLUTION.
 4. ALL ANGLES ARE PERPENDICULAR UNLESS OTHERWISE NOTED.
 5. CONTRACTOR TO RECEIVE ELECTRONIC FILES OF PLANS IN AUTOCAD 2024 PRIOR TO CONSTRUCTION.



- LAYOUT GENERAL NOTES**
1. ALL LAYOUT IS TO BE STAKED BY THE CONTRACTOR FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
 2. NORTHINGS AND EASTINGS REFLECT MAJOR END POINTS OF SITE ELEMENTS AND POST CENTERS FOR PLAYGROUND EQUIPMENT. THESE NORTHINGS AND EASTINGS MAY ONLY BE ADJUSTED WITH THE APPROVAL OF THE LANDSCAPE ARCHITECT.
 3. CONTRACTOR SHALL VERIFY IN THE FIELD ALL LINES AND DIMENSIONS INDICATED IN THE PLANS AND REPORT ANY INCONSISTENCIES TO THE LANDSCAPE ARCHITECT FOR RESOLUTION.
 4. ALL ANGLES ARE PERPENDICULAR UNLESS OTHERWISE NOTED.
 5. CONTRACTOR TO RECEIVE ELECTRONIC FILES OF PLANS IN AUTOCAD 2024 PRIOR TO CONSTRUCTION.

HOOGLAND PARK IMPROVEMENTS
ZEELAND, MICHIGAN

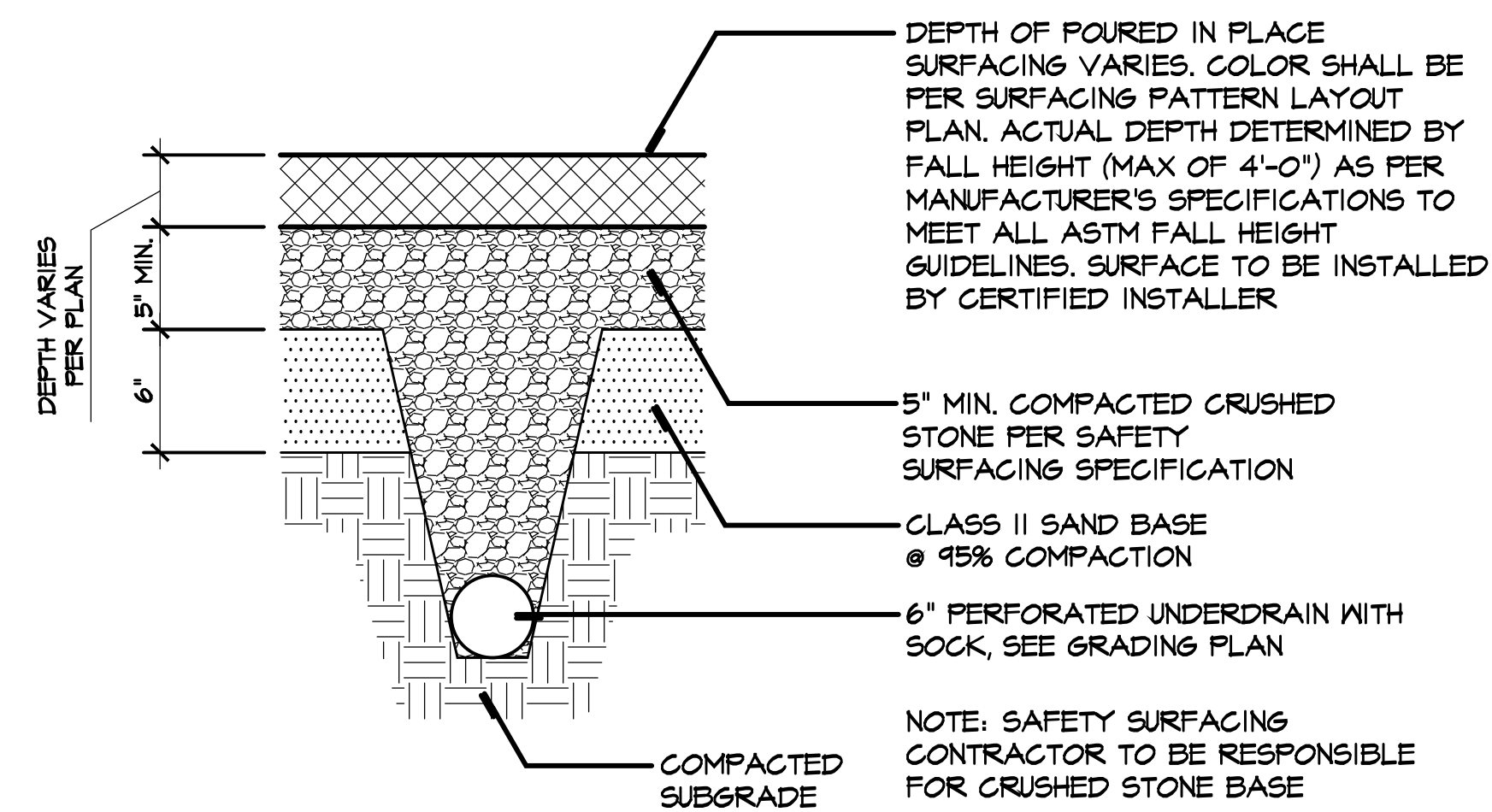
MCSA GROUP, INC.
 Landscape Architecture • Park & Recreation Planning • Architecture
 Downtown Planning • Interior Design • Sports Facility Planning
 529 Greenwood Avenue S.E. • East Grand Rapids, MI 49506
 616-451-3346 • FAX: 616-451-1955 • EMAIL: info@mcsagroup.com



Playground Enlargement Plan
Base Bid

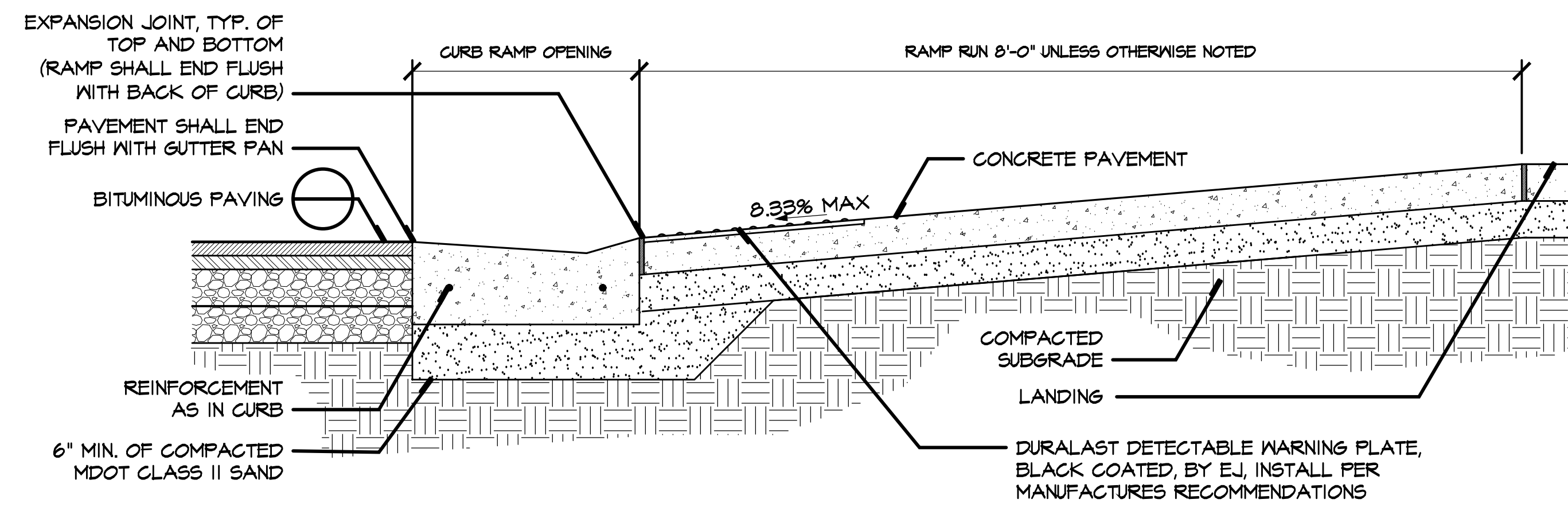
DATE		PROJECT NO.
1.8.2025		2211
REVISIONS		SHEET NO.
		L6

PROGRESS MEETING



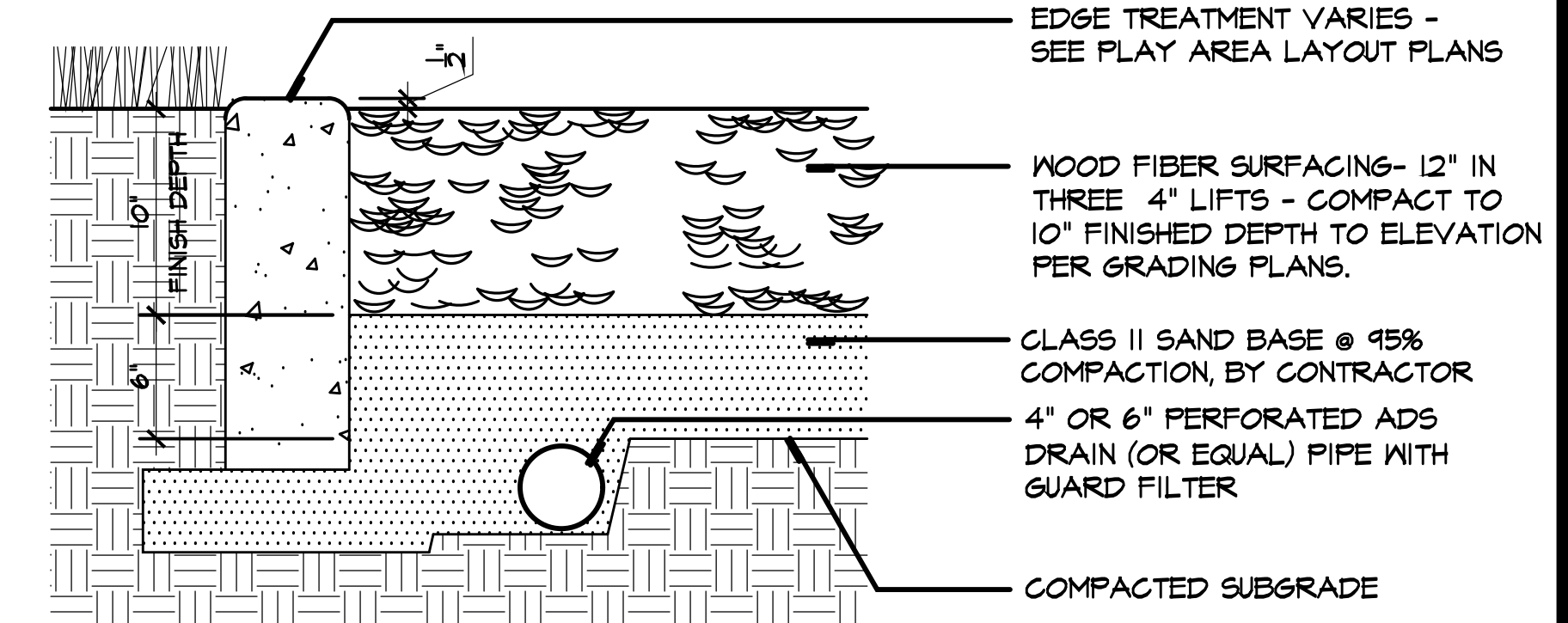
Poured in Place Rubber Safety Surfacing

Scale: 1-1/2"=1'-0" PRODUCT DATA REQUIRED



ADA Curb Ramp

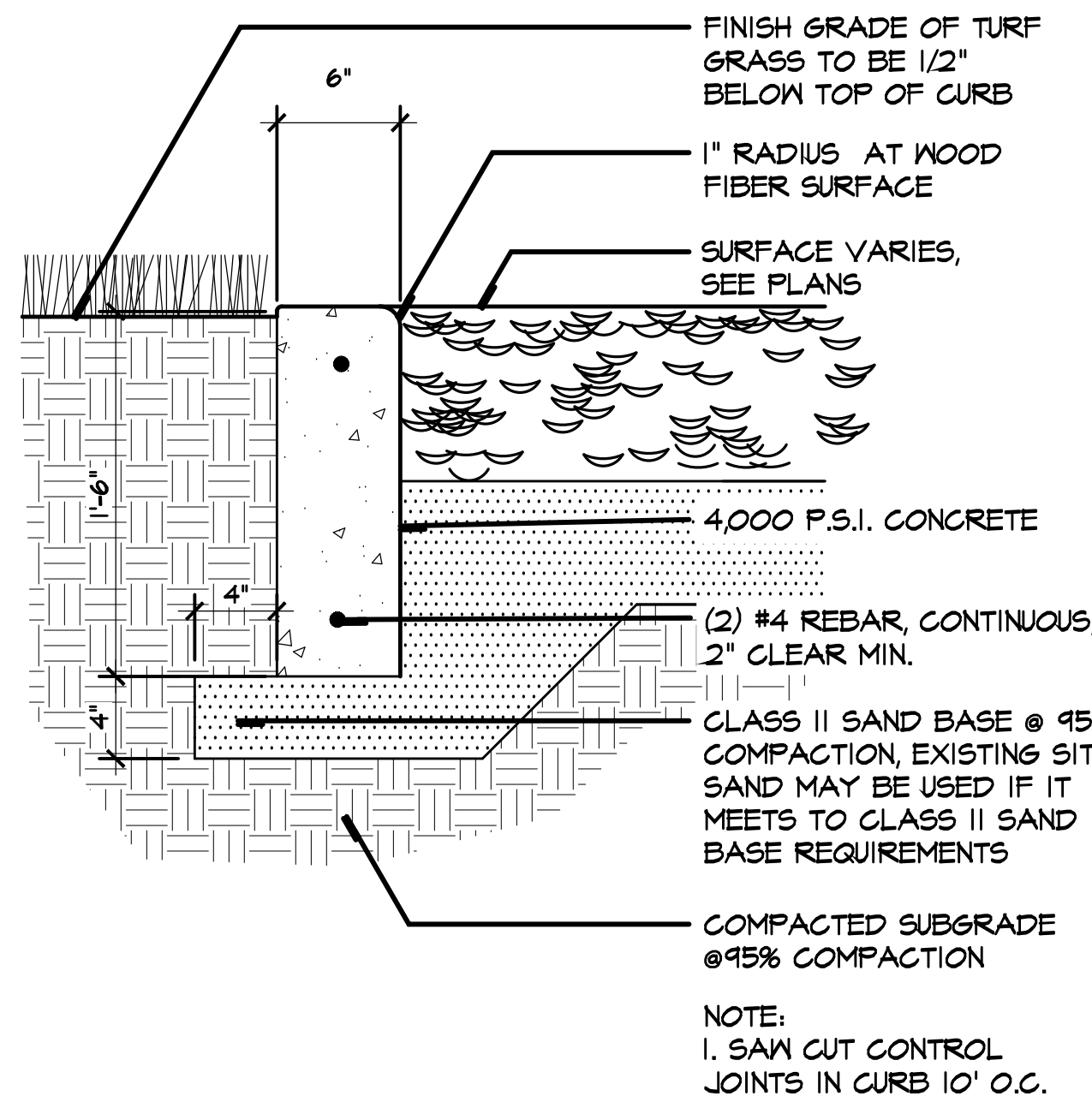
Scale: 1"=1'-0"



Wood Fiber Surfacing

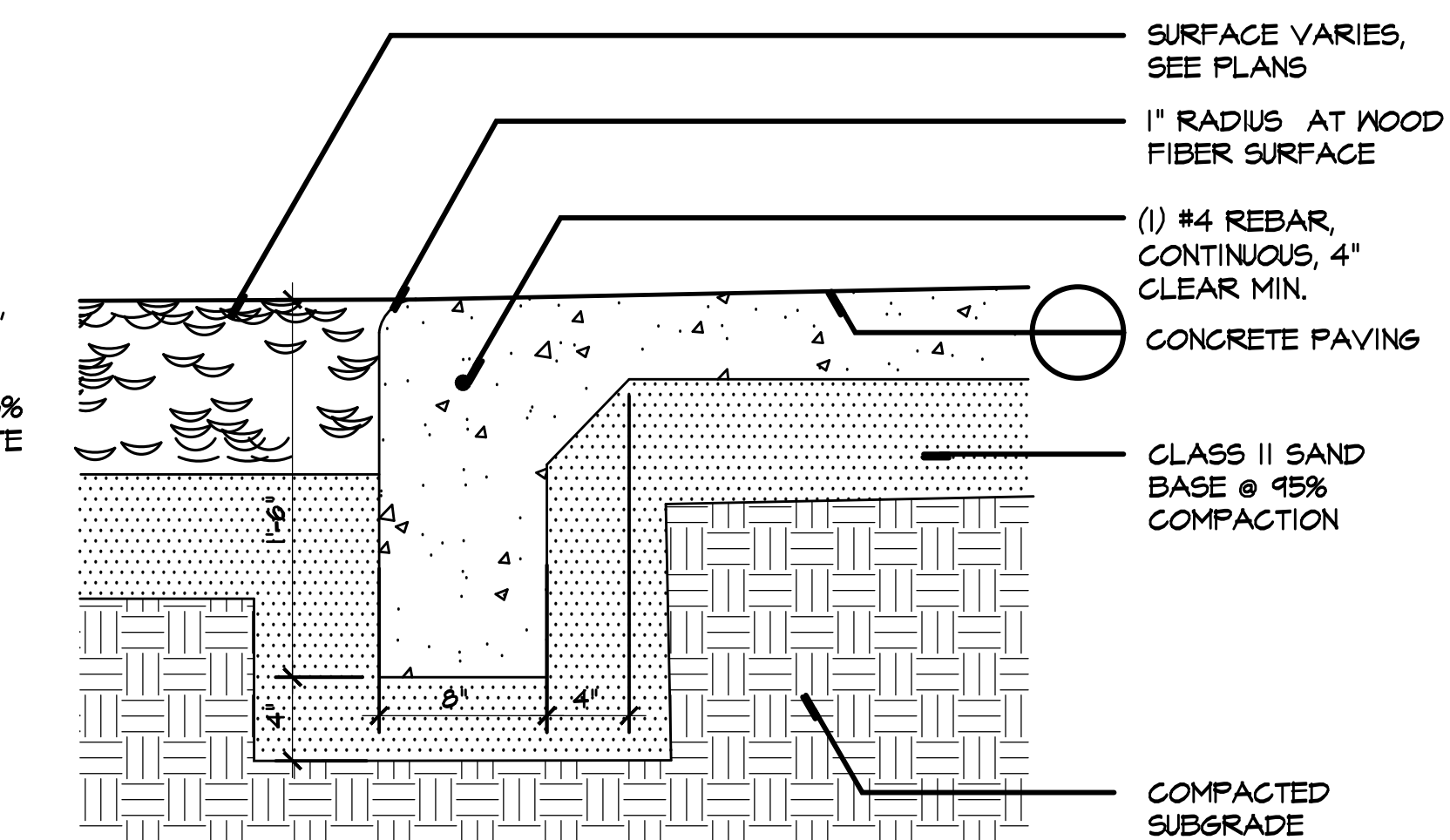
Scale: 1-1/2"=1'-0" PRODUCT DATA REQUIRED

* NOTE ALL SWINGS, TO HAVE WEAR MATS BY PIERCONTO RUBBER PRODUCTS. SEE PROPOSAL FORM, MATS TO BE BURIED 6" FROM TOP OF FINISHED FIBER SURFACING.



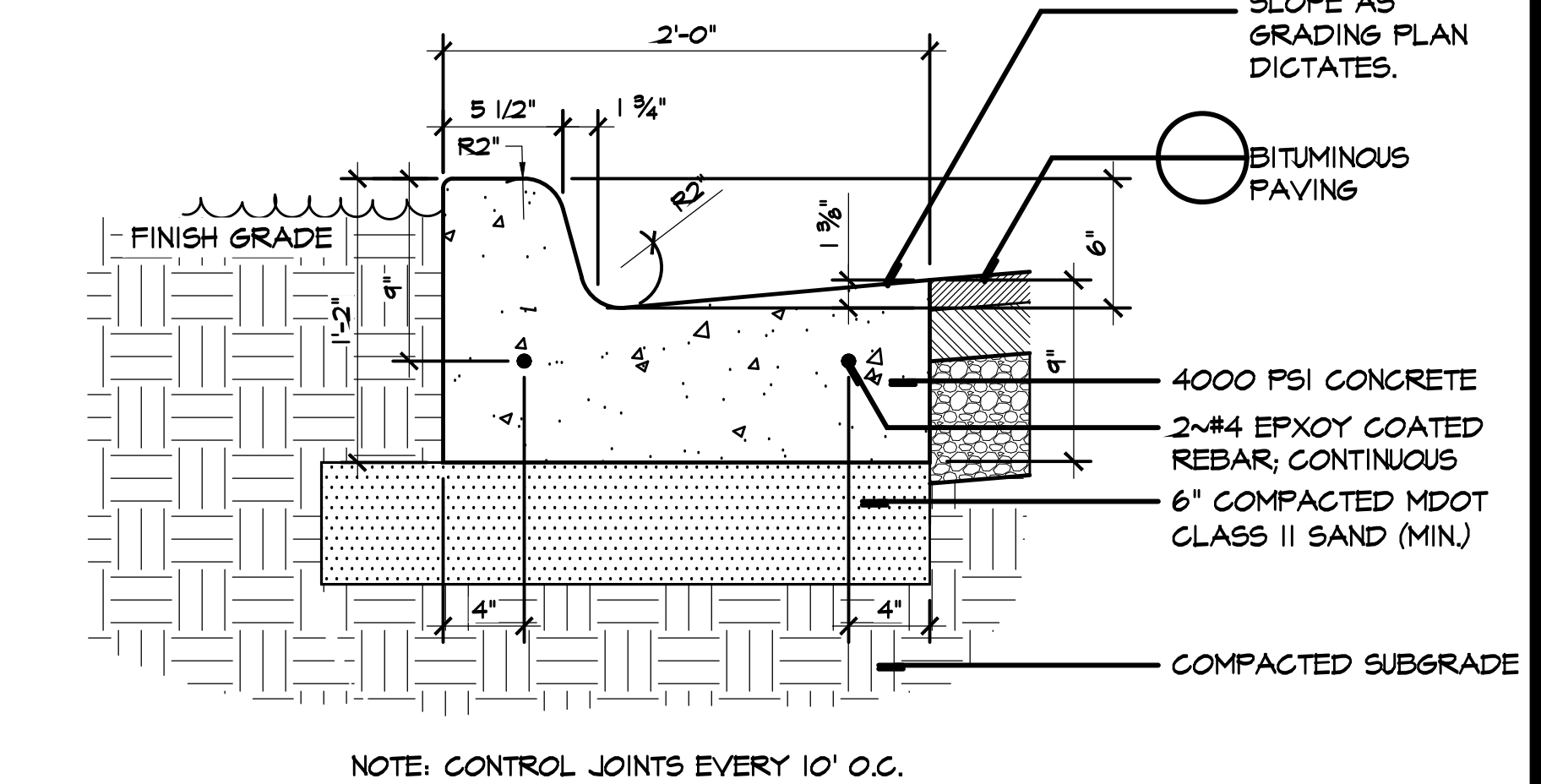
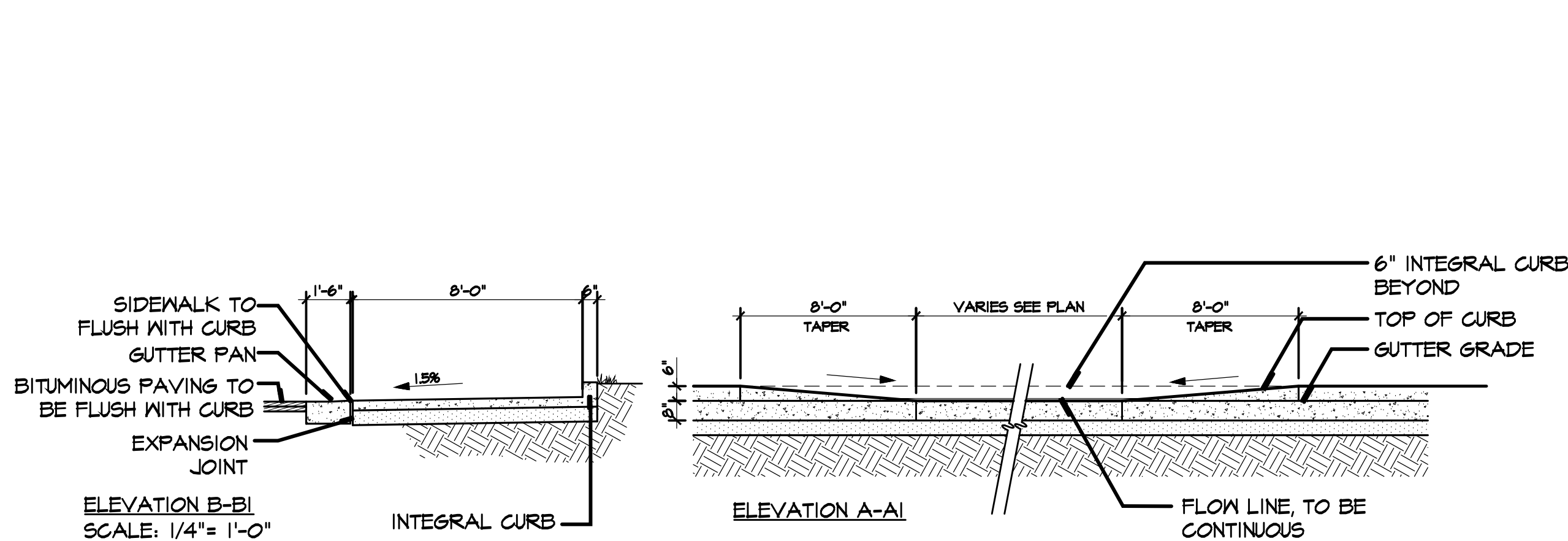
Flush Concrete Curb

Scale: 1-1/2"=1'-0"



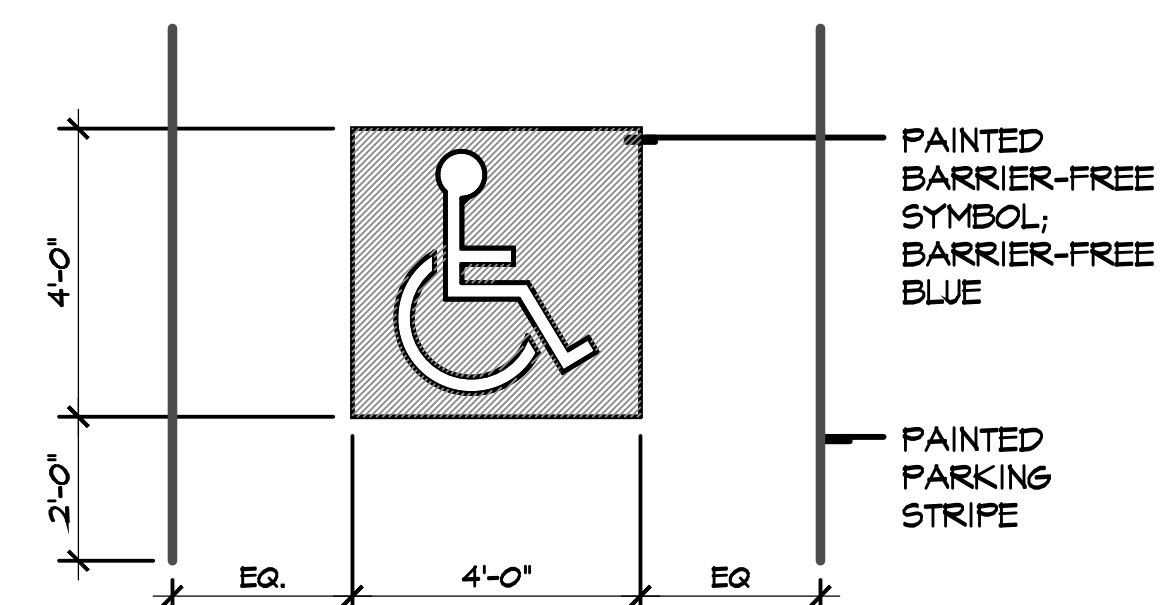
Thickened Edge at Concrete Walk

Scale: 1-1/2"=1'-0"



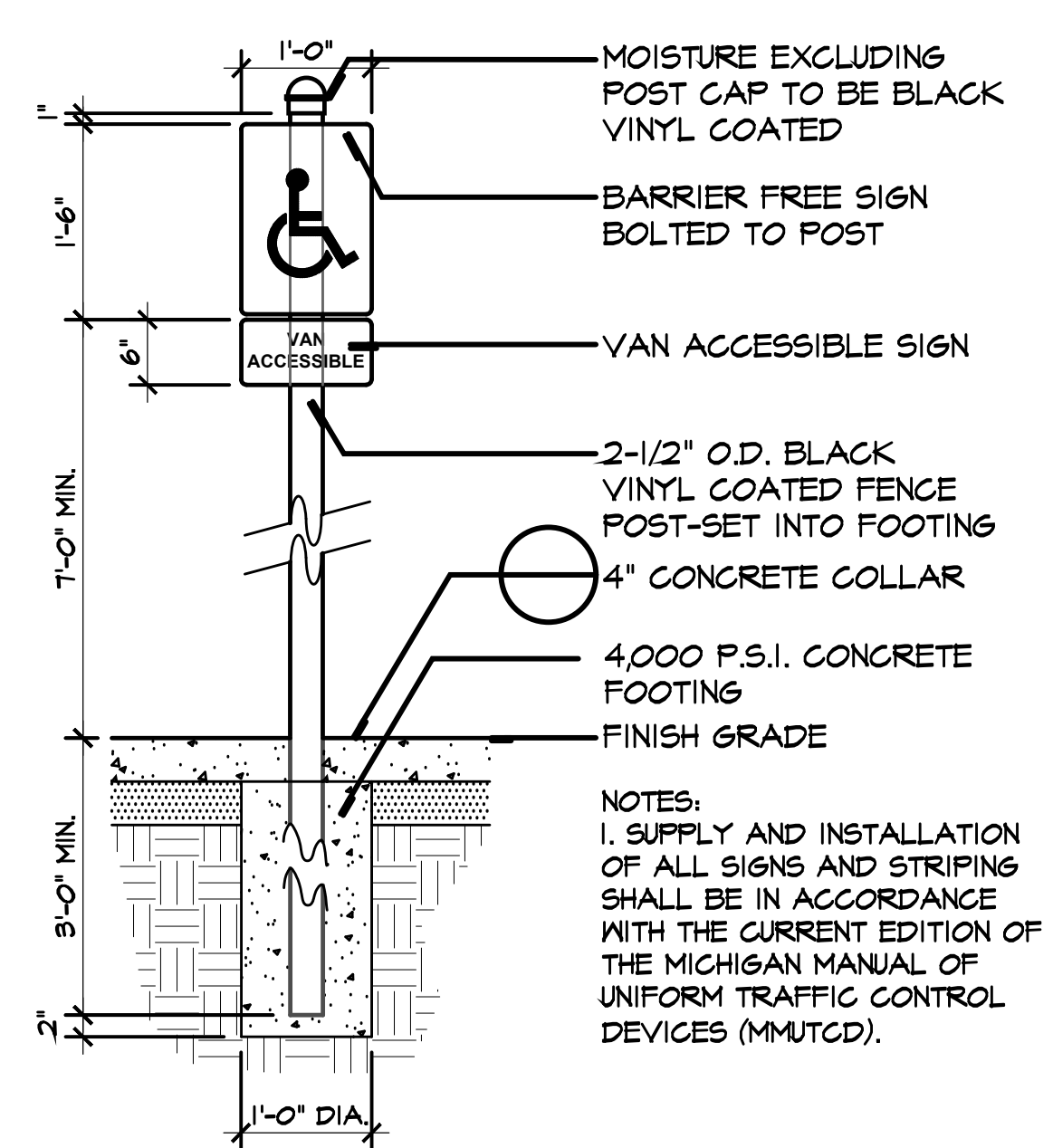
Concrete Curb and Gutter

Scale: 1 1/2"=1'-0"



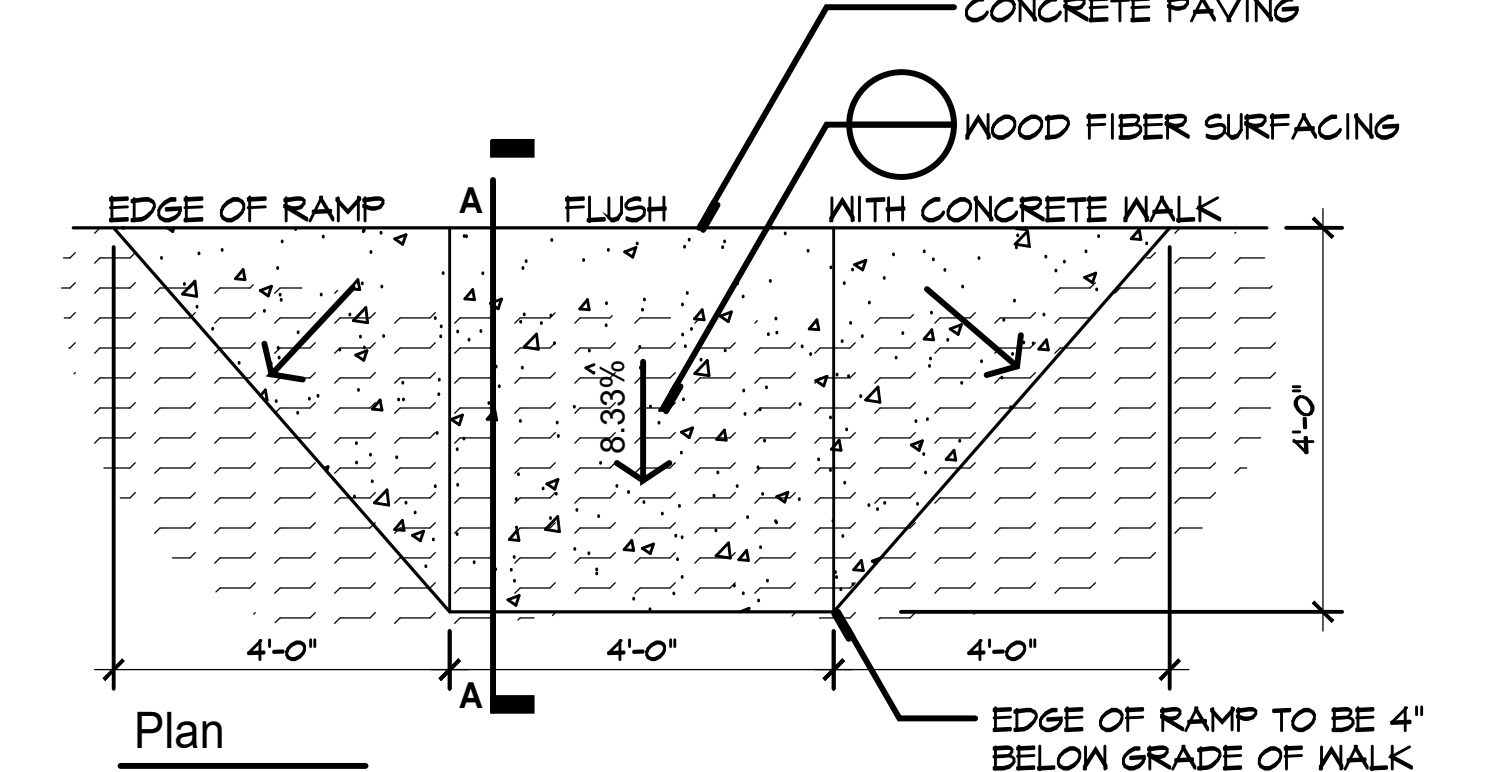
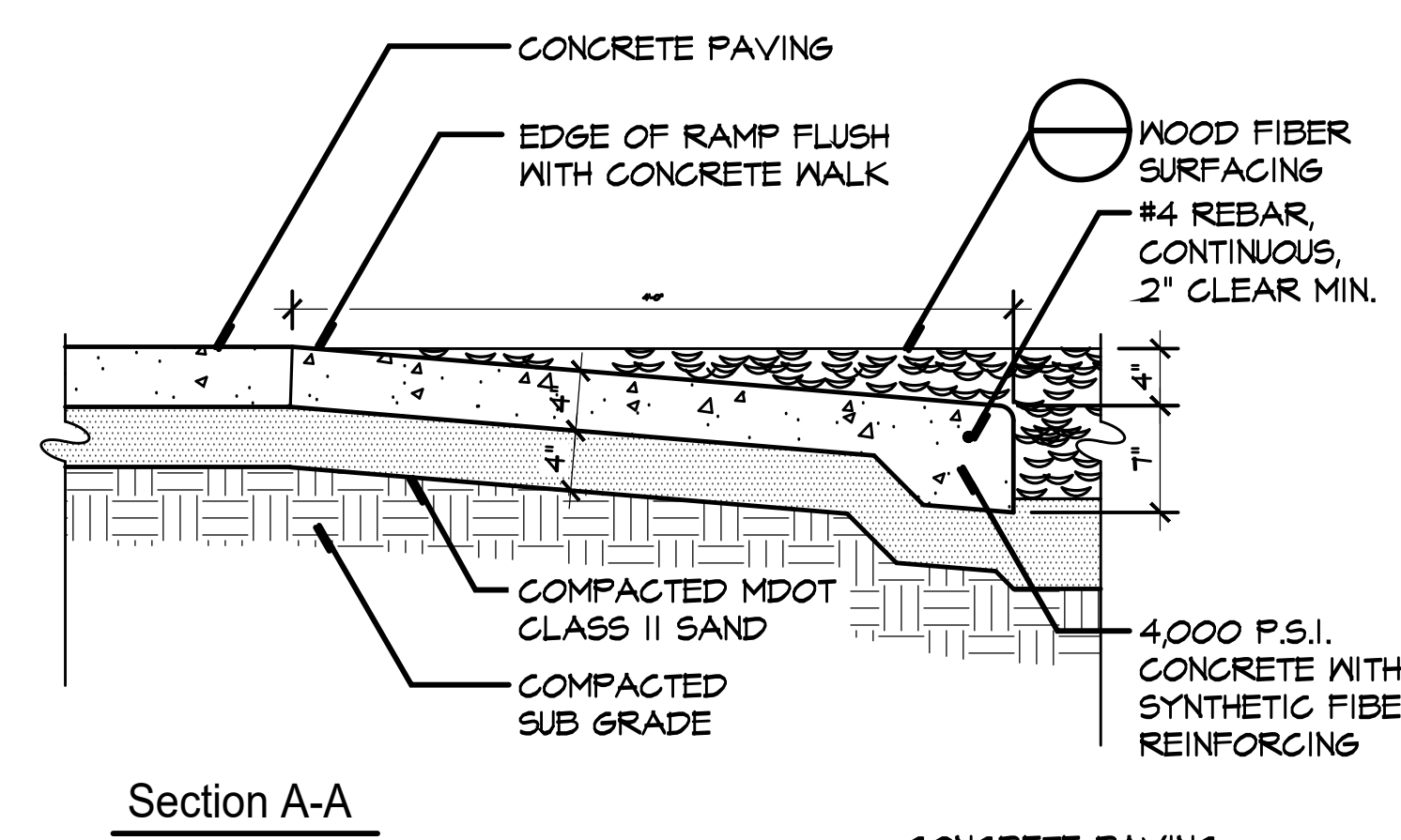
Barrier-Free Symbol

Scale: 3/8"=1'-0"



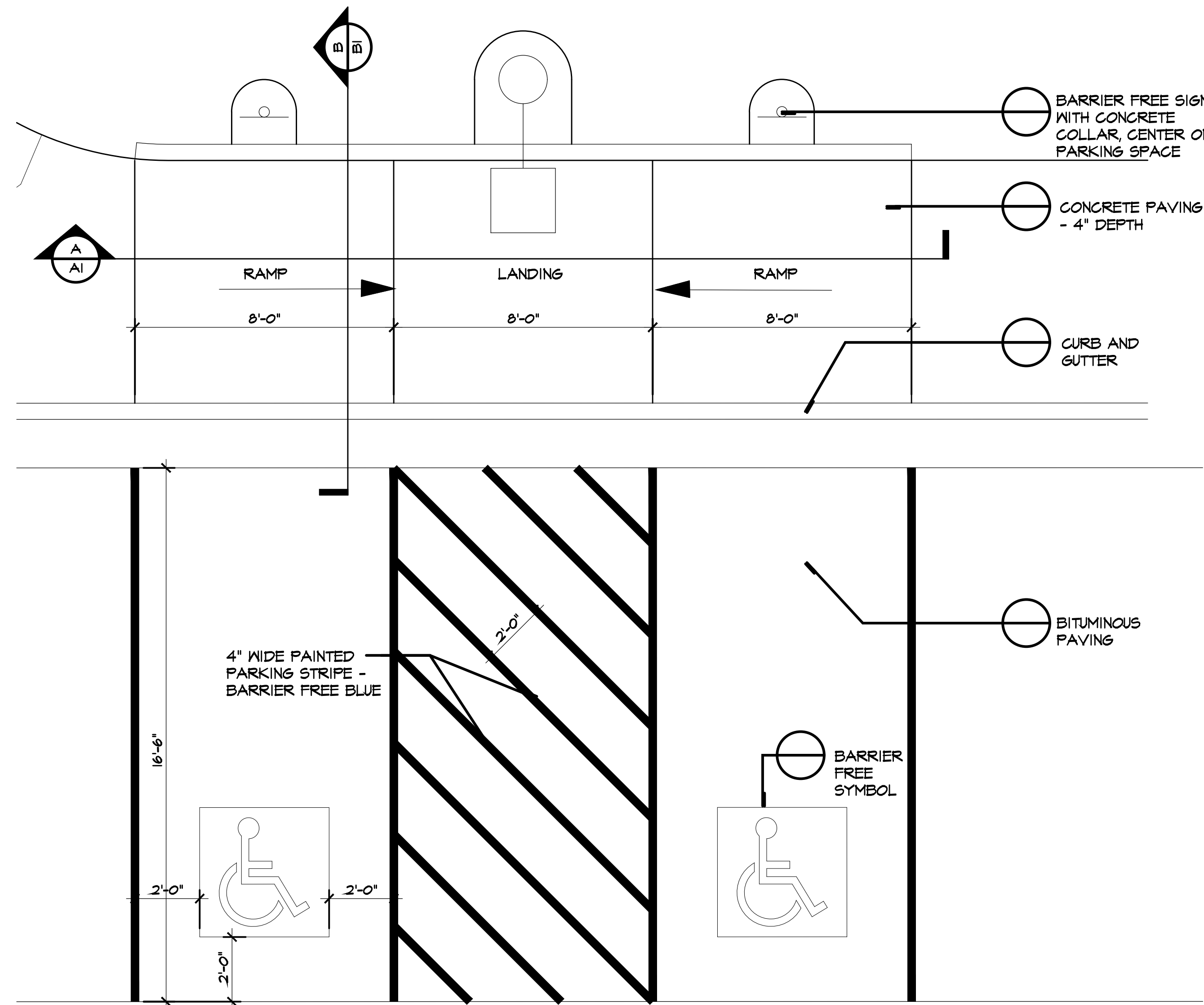
Traffic Sign

Scale: 3/4"=1'-0" PRODUCT DATA REQUIRED



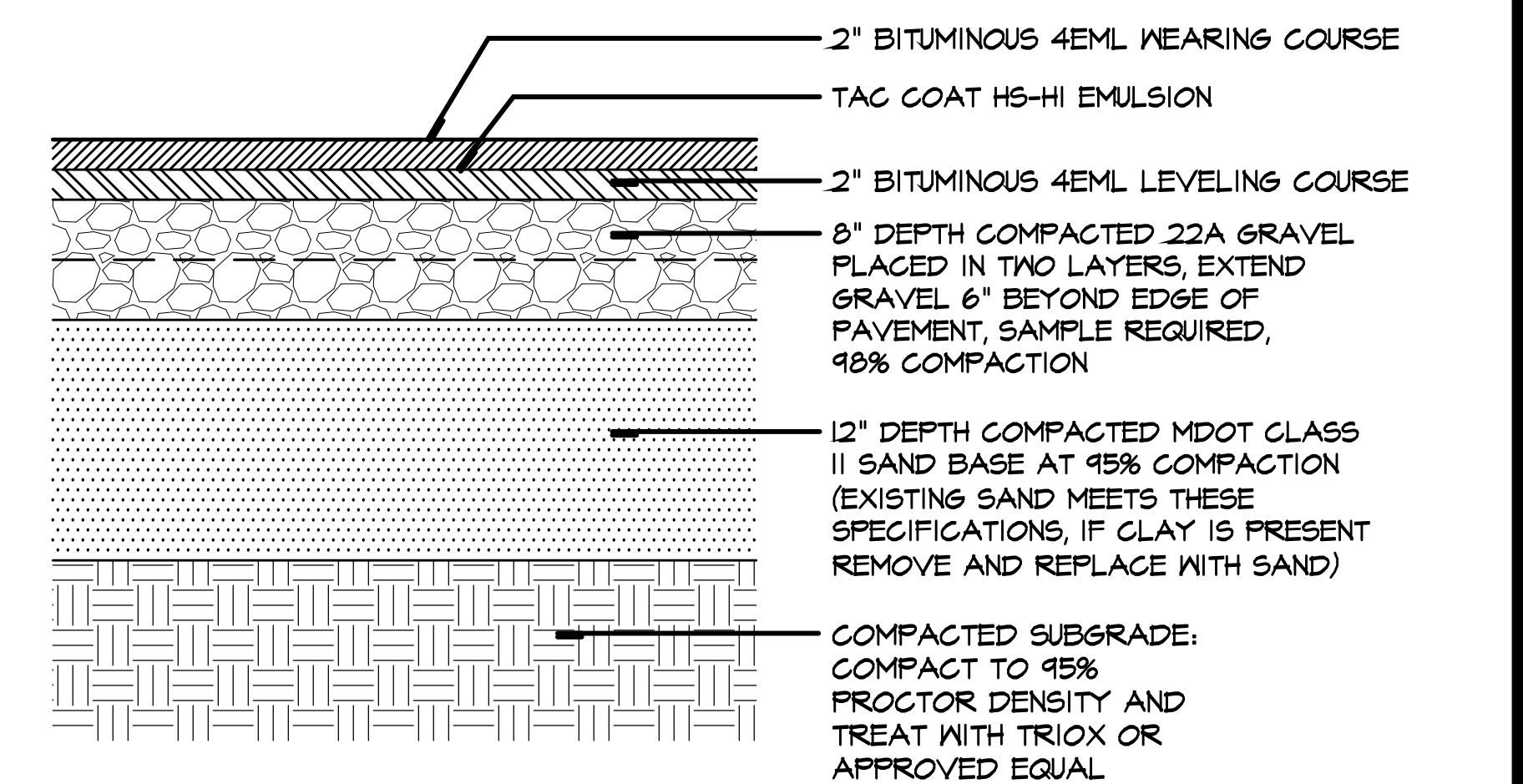
Concrete Accessible Ramp

Scale: 1"=1'-0"



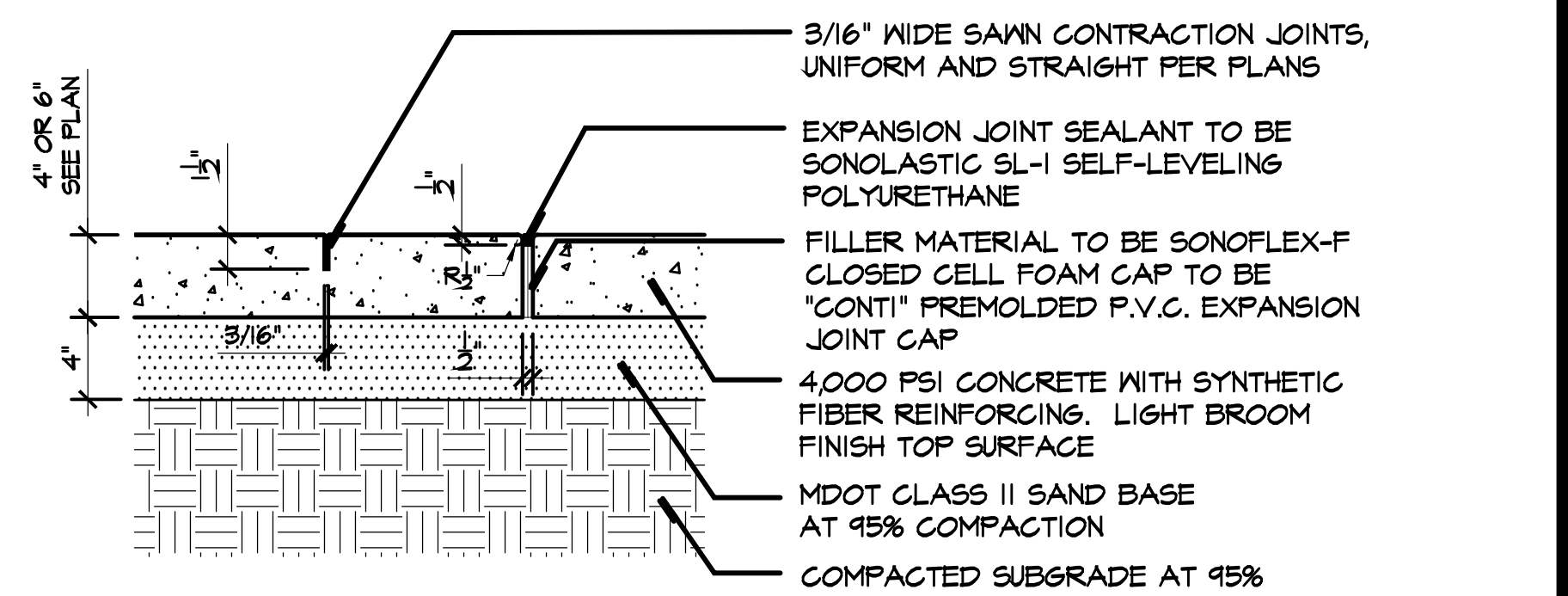
Barrier Free Striping

Scale: 3/8"=1'-0"



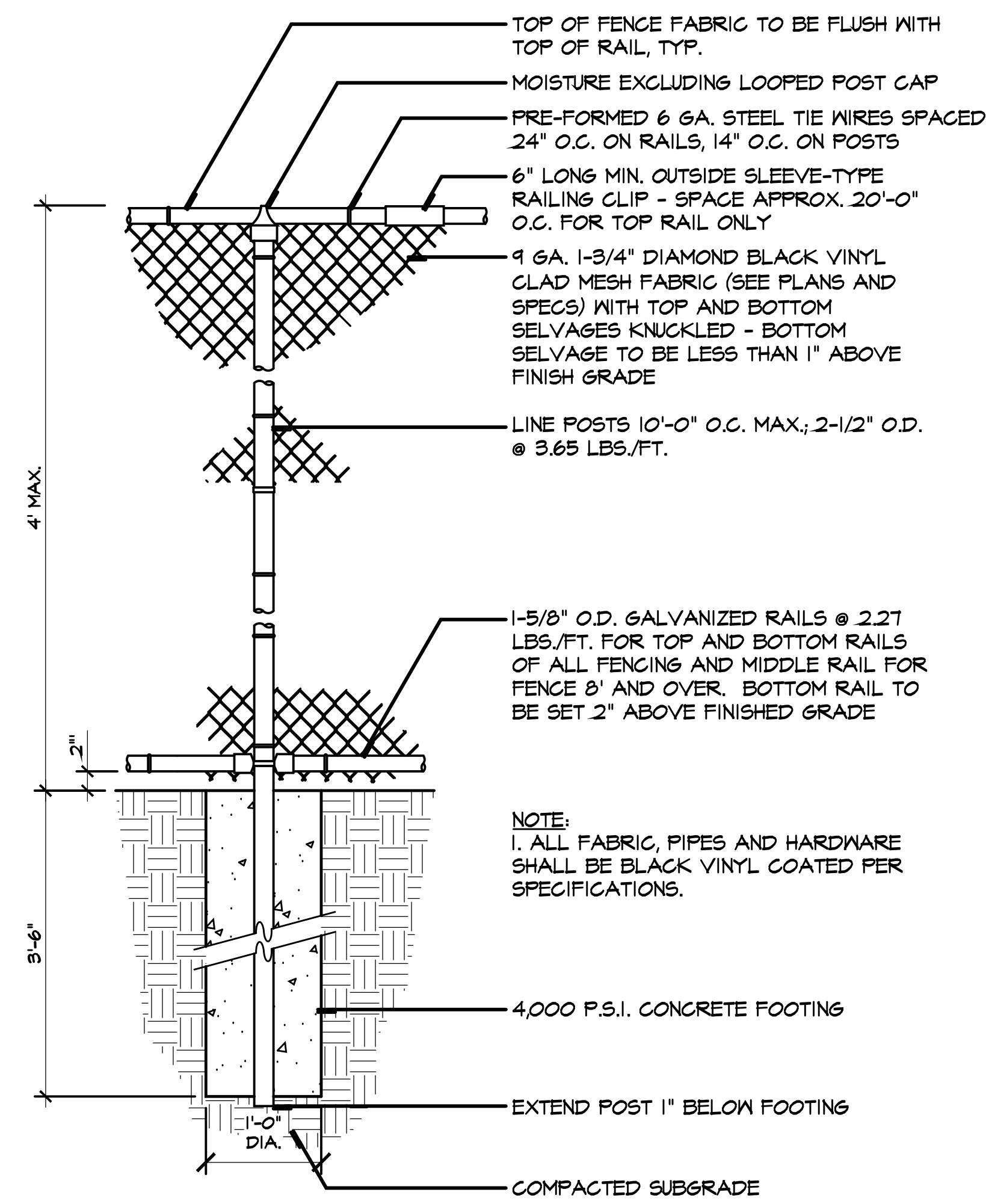
Bituminous Paving

Scale: 1 1/2"=1'-0"

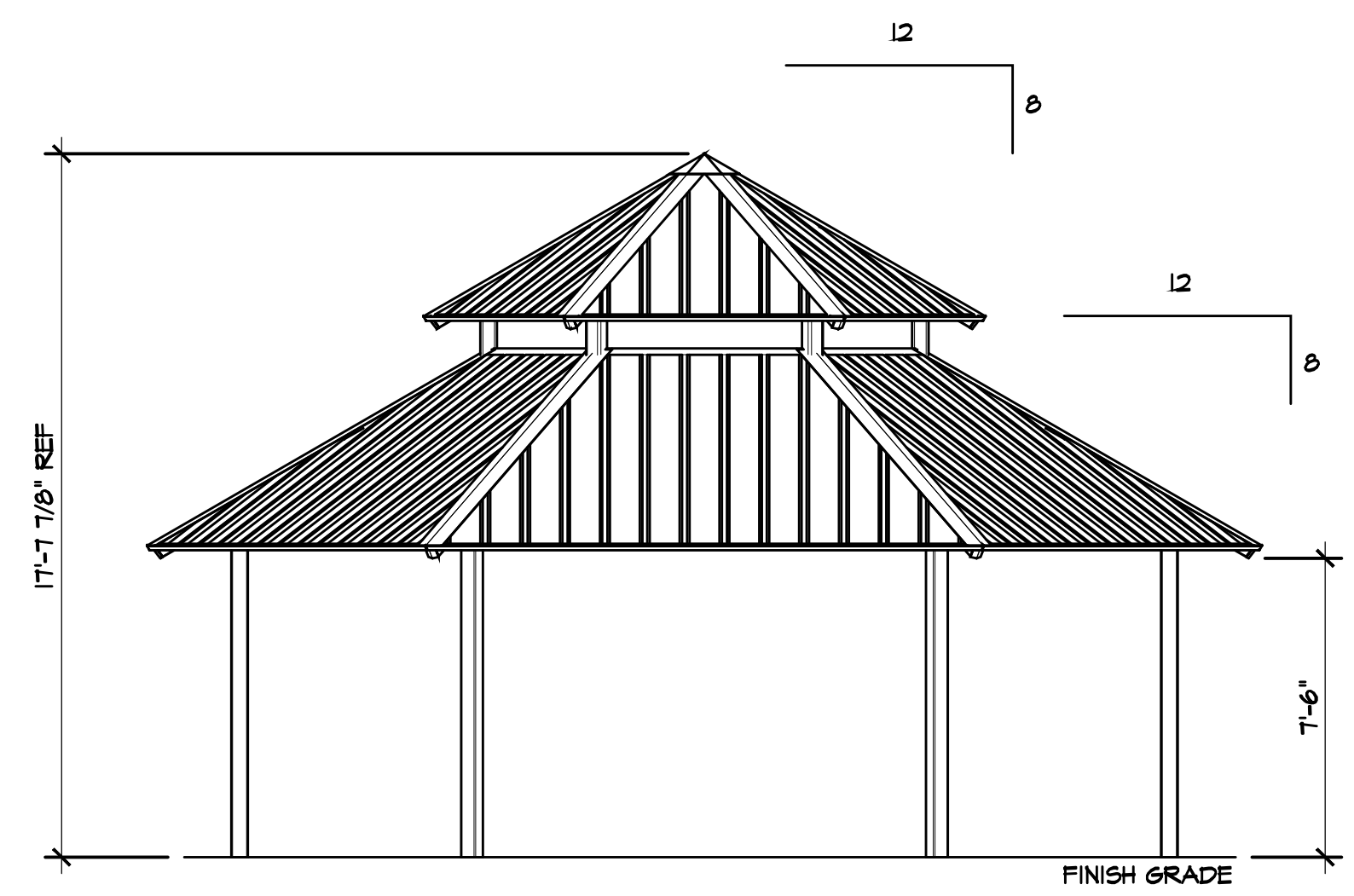


Concrete Paving & Joints

Scale: 1-1/2"=1'-0"

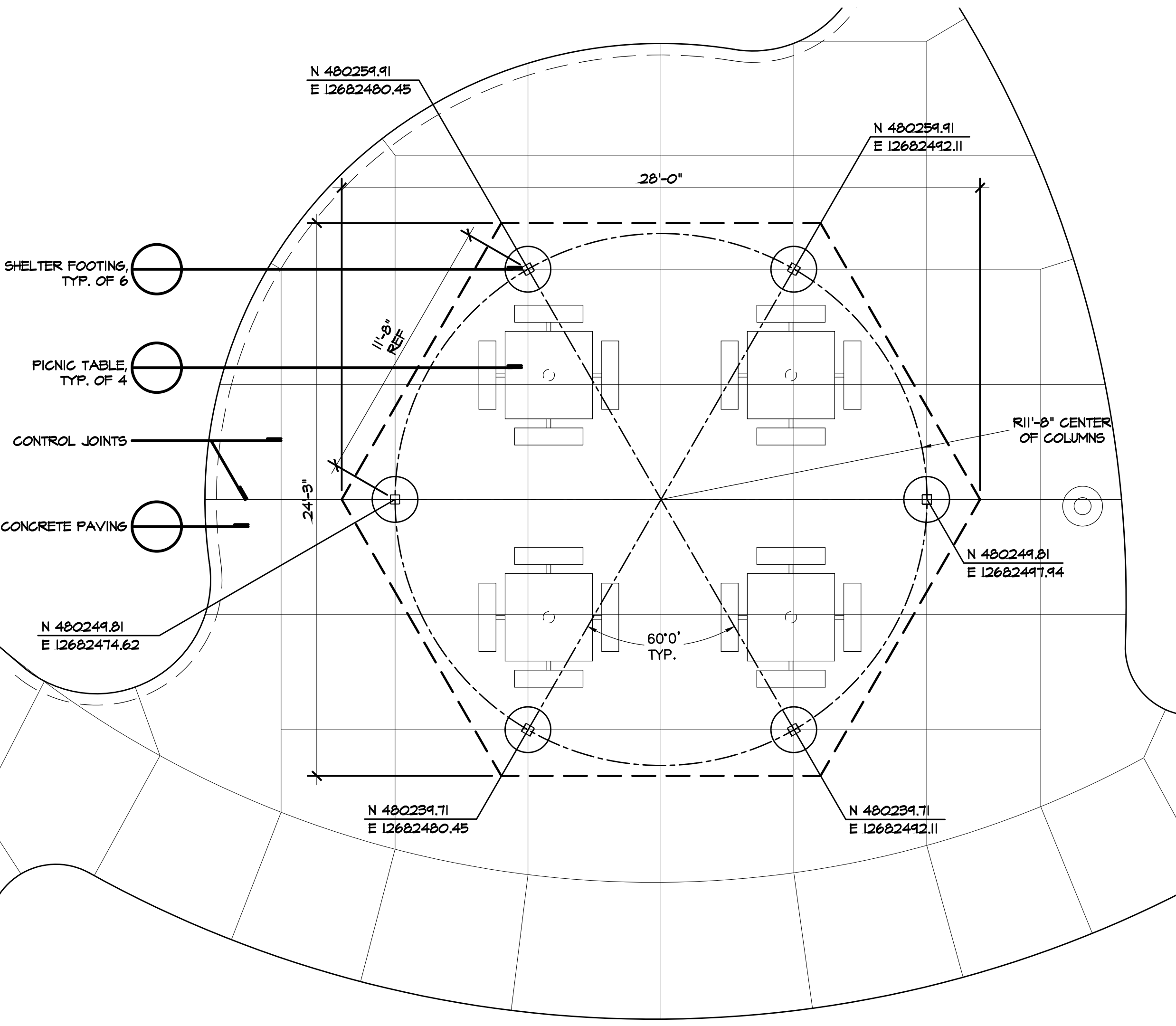


Standard Chainlink Fence Detail
Scale: 1"=1'-0" SHOP DRAWINGS REQUIRED

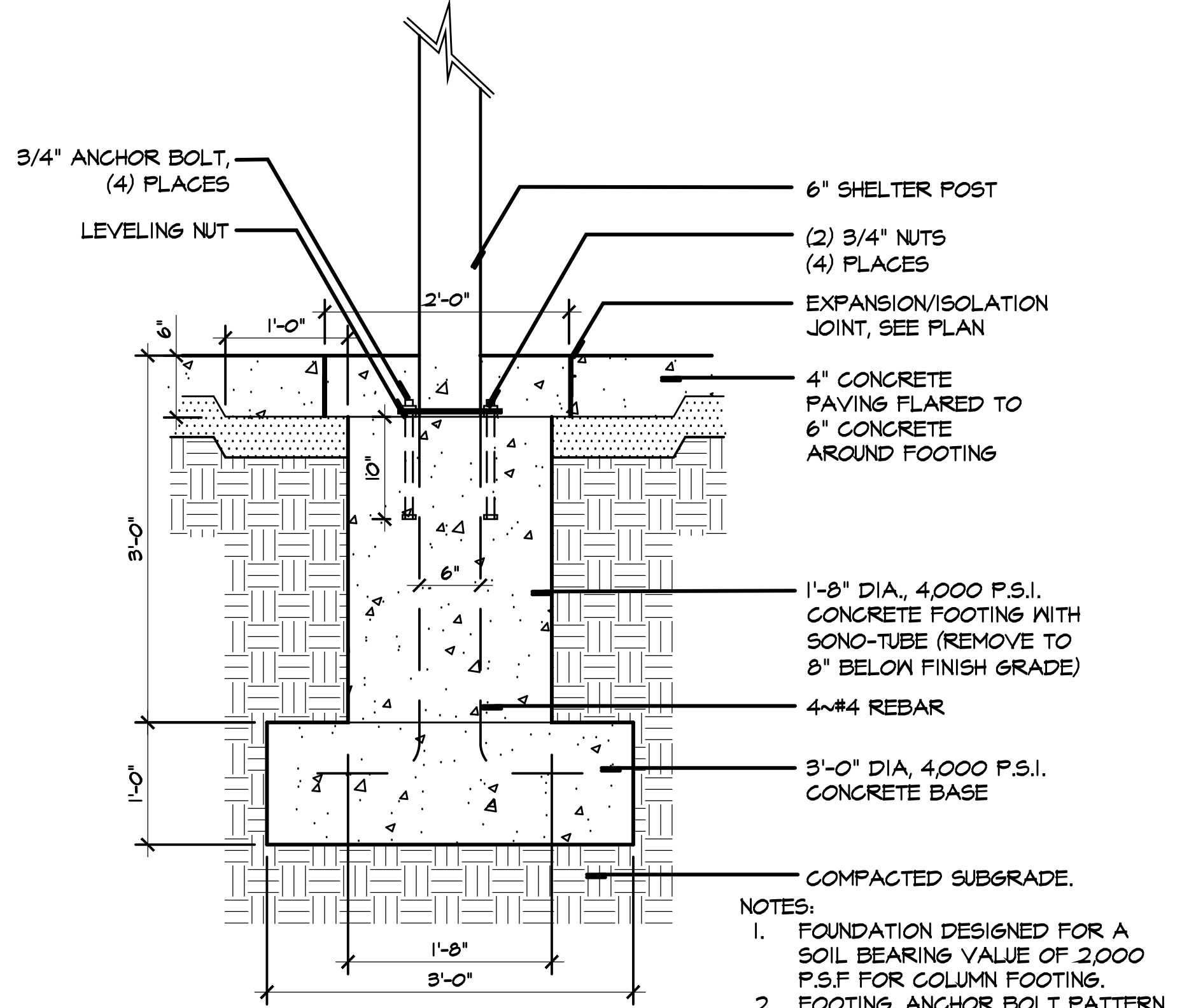


Shelter Elevation
Scale: 1/4"=1'-0"

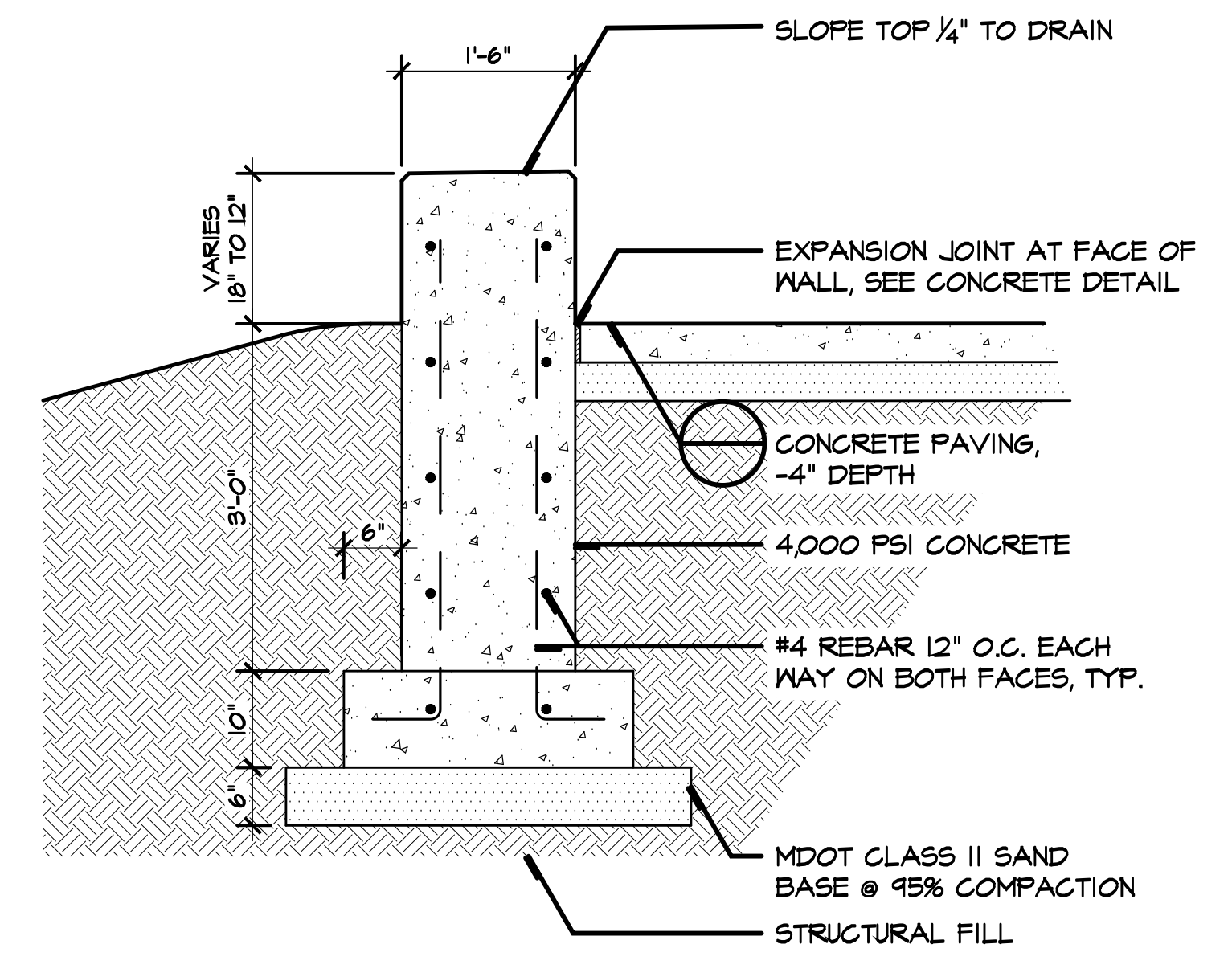
- SHELTER NOTES:**
1. SHELTER TO BE POLIGON 28' HEXAGONAL OXFORD CELESTORY HIP ROOF SHELTER OR APPROVED EQUAL. SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS. ALTERNATE SHELTERS MUST MEET SPECIFIED SHELTER SIZE AND FEATURES.
 2. SHELTER TO FACTORY FINISHED POWDER COAT PAINT SYSTEM.
 3. METAL ROOF TO BE 4:12 ROOF PITCH, MCELROY STANDING SEAM ROOF OR APPROVED EQUAL.
 4. TONGUE AND GROOVE DECKING TO BE PRE-STAINED IN COLOR PER LANDSCAPE ARCHITECT.
 5. REFER TO MANUFACTURER'S SPECIFICATIONS FOR INSTALLATION.
 6. STEEL FRAMING AND COLUMNS COLOR TO BE SURREY BEIGE, AND ROOF COLOR TO BE REGAL BLUE.
 7. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO CONSTRUCTION. CONTRACTOR TO PROVIDE ALL NECESSARY ENGINEERING DRAWINGS FROM MANUFACTURER TO ACQUIRE BUILDING AND OCCUPANCY PERMITS.
 8. LAYOUT ALL SHELTER ELEMENTS FROM THE CENTER OF THE SHELTER.



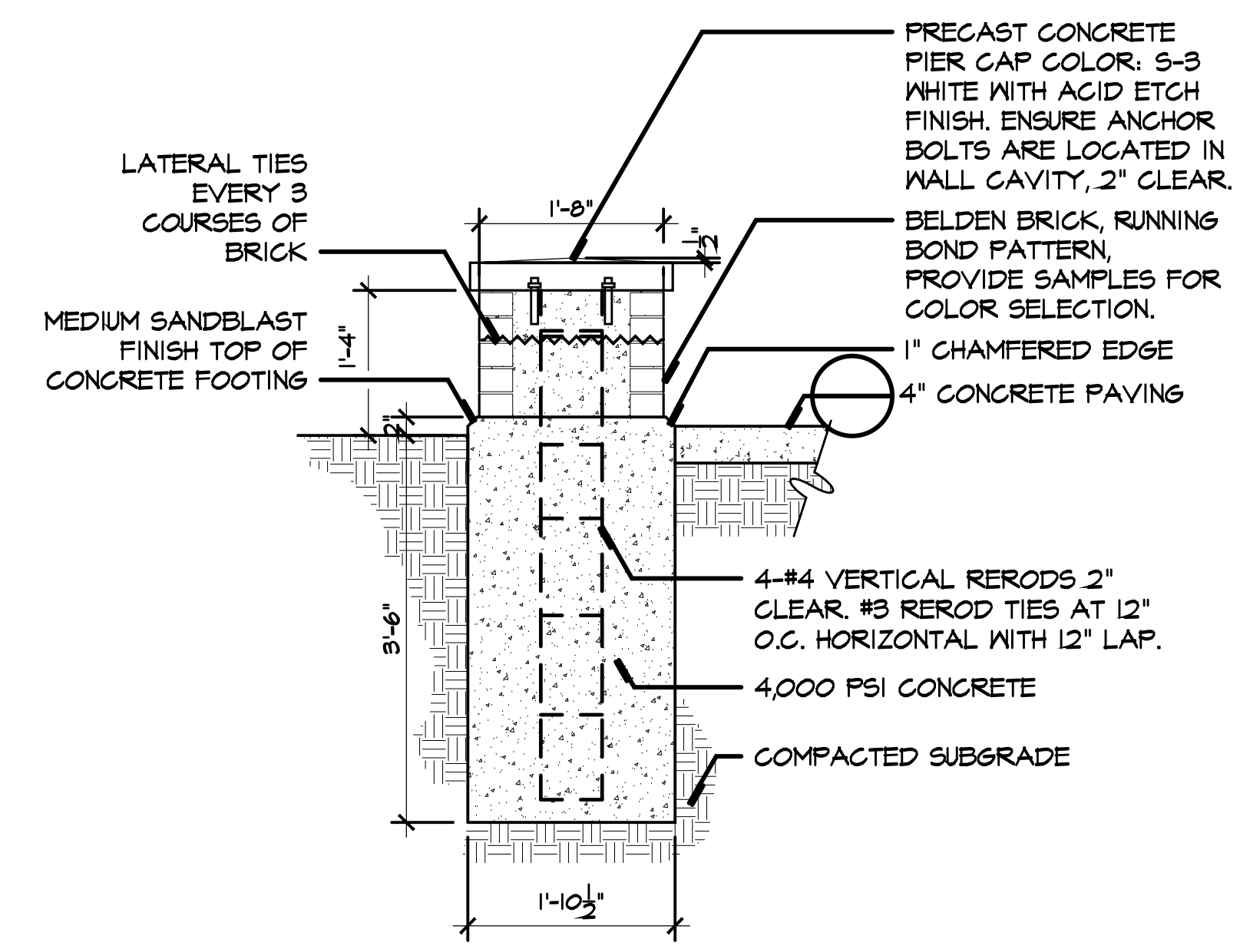
Shelter Layout
Scale: 1/4"=1'-0"



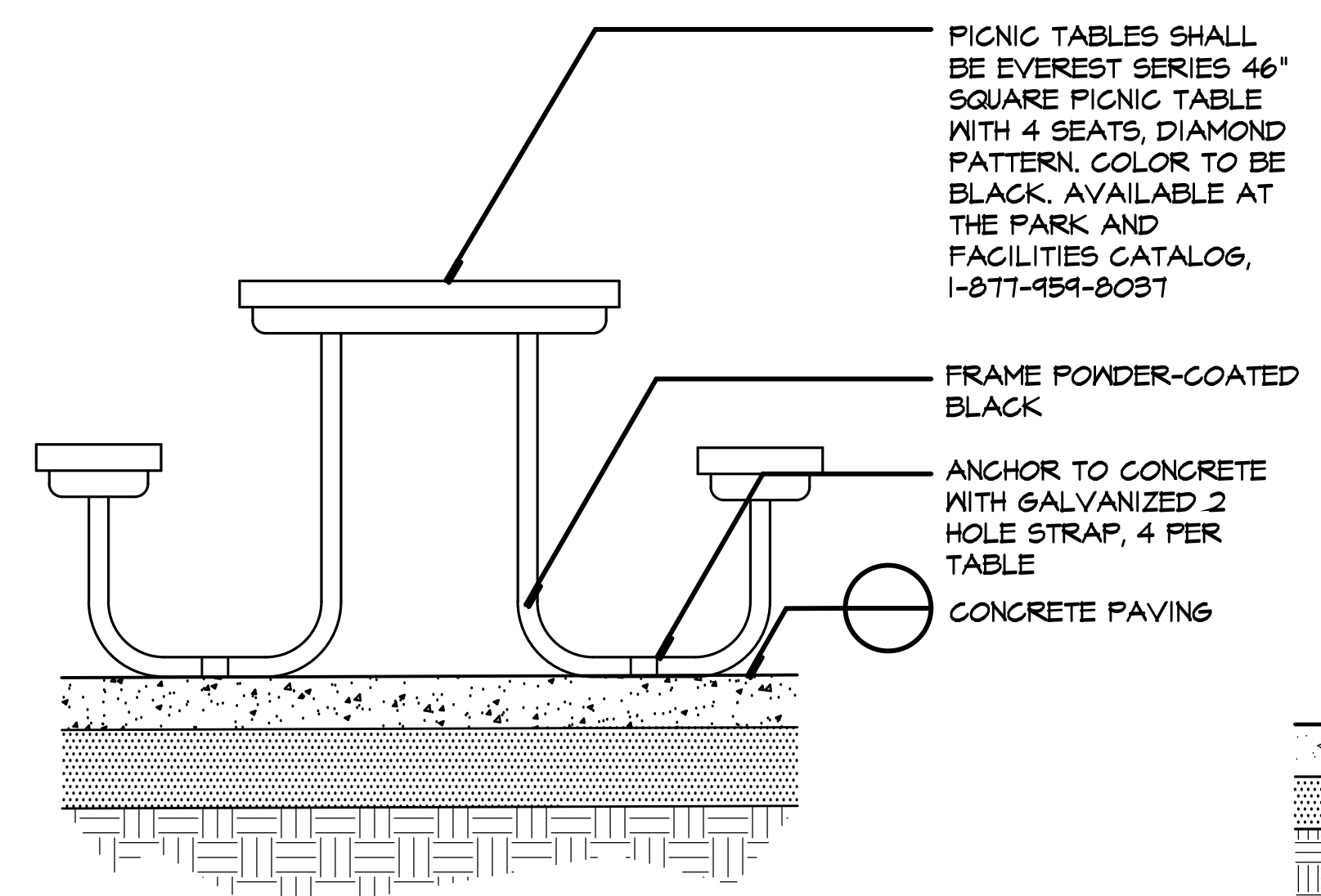
Shelter Footing
Scale: 1"=1'-0"



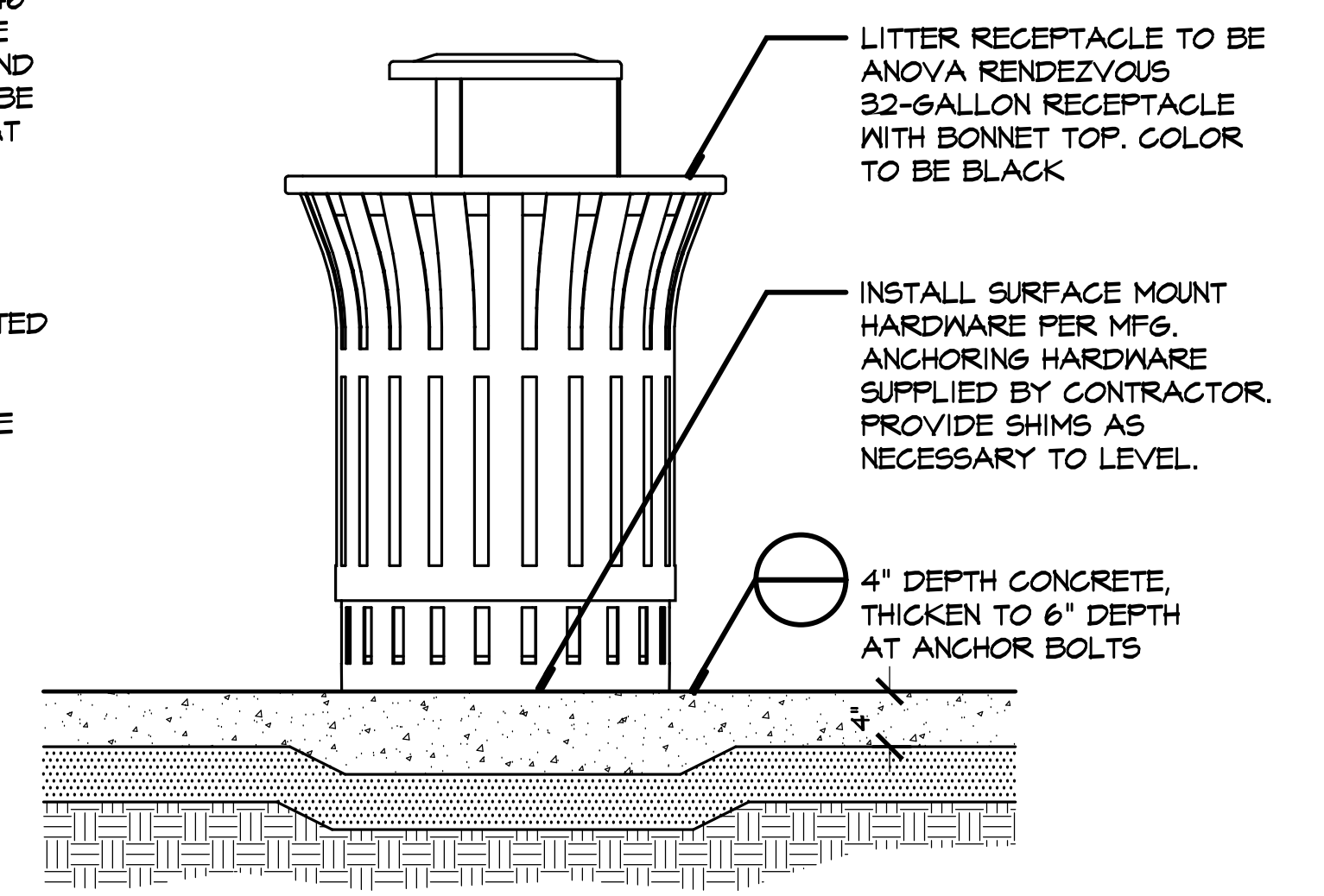
Concrete Seat Wall
Scale: 3/4"=1'-0"



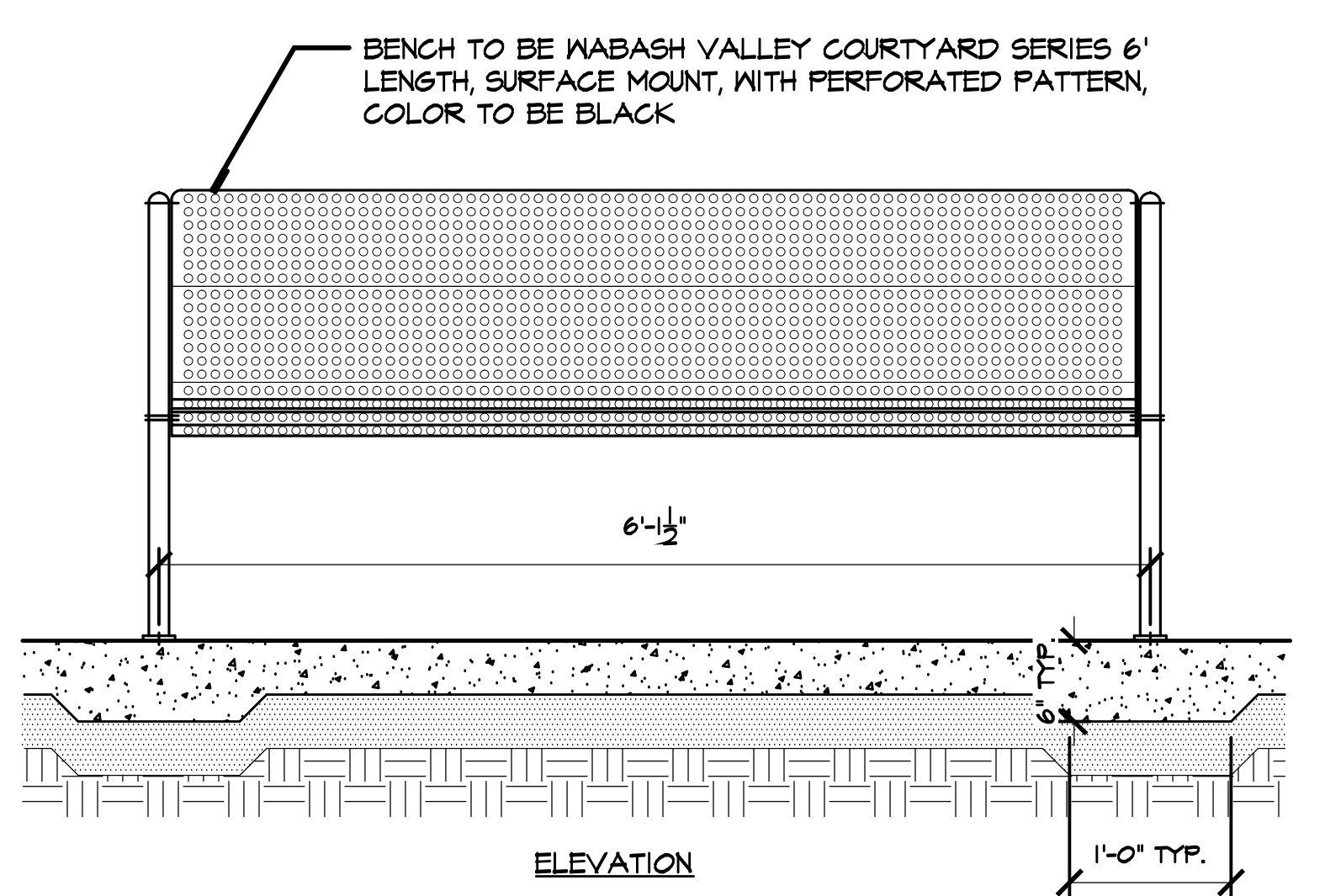
Brick Seat Wall
Scale: 3/4"=1'-0"



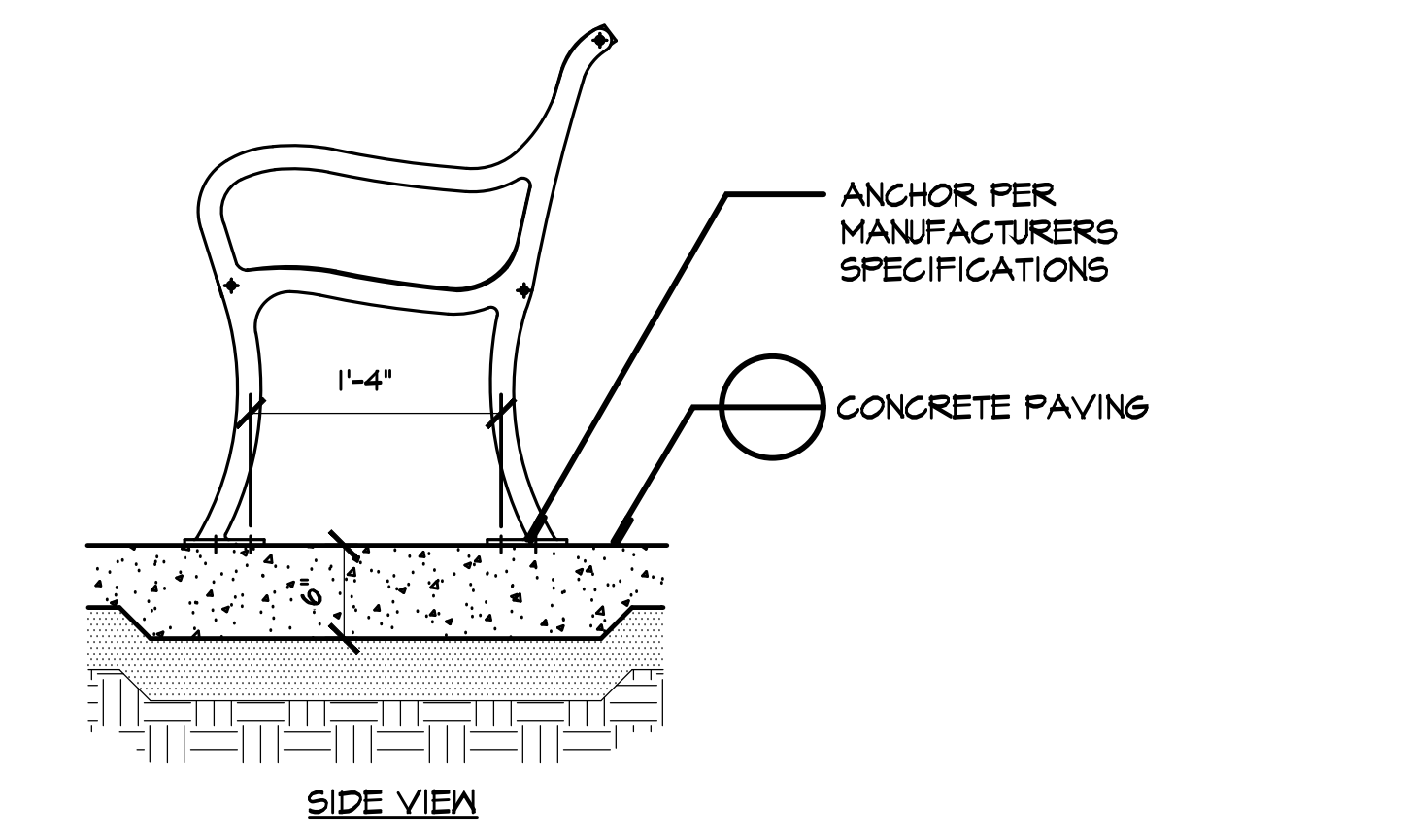
Picnic Table
Scale: 1"=1'-0" PRODUCT DATA REQUIRED

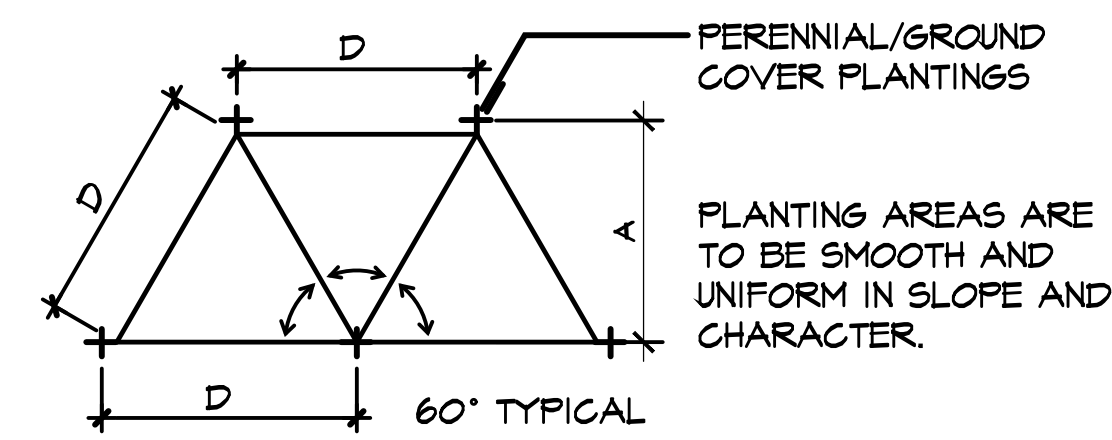


Litter Container
Scale: 1"=1'-0" PRODUCT DATA REQUIRED



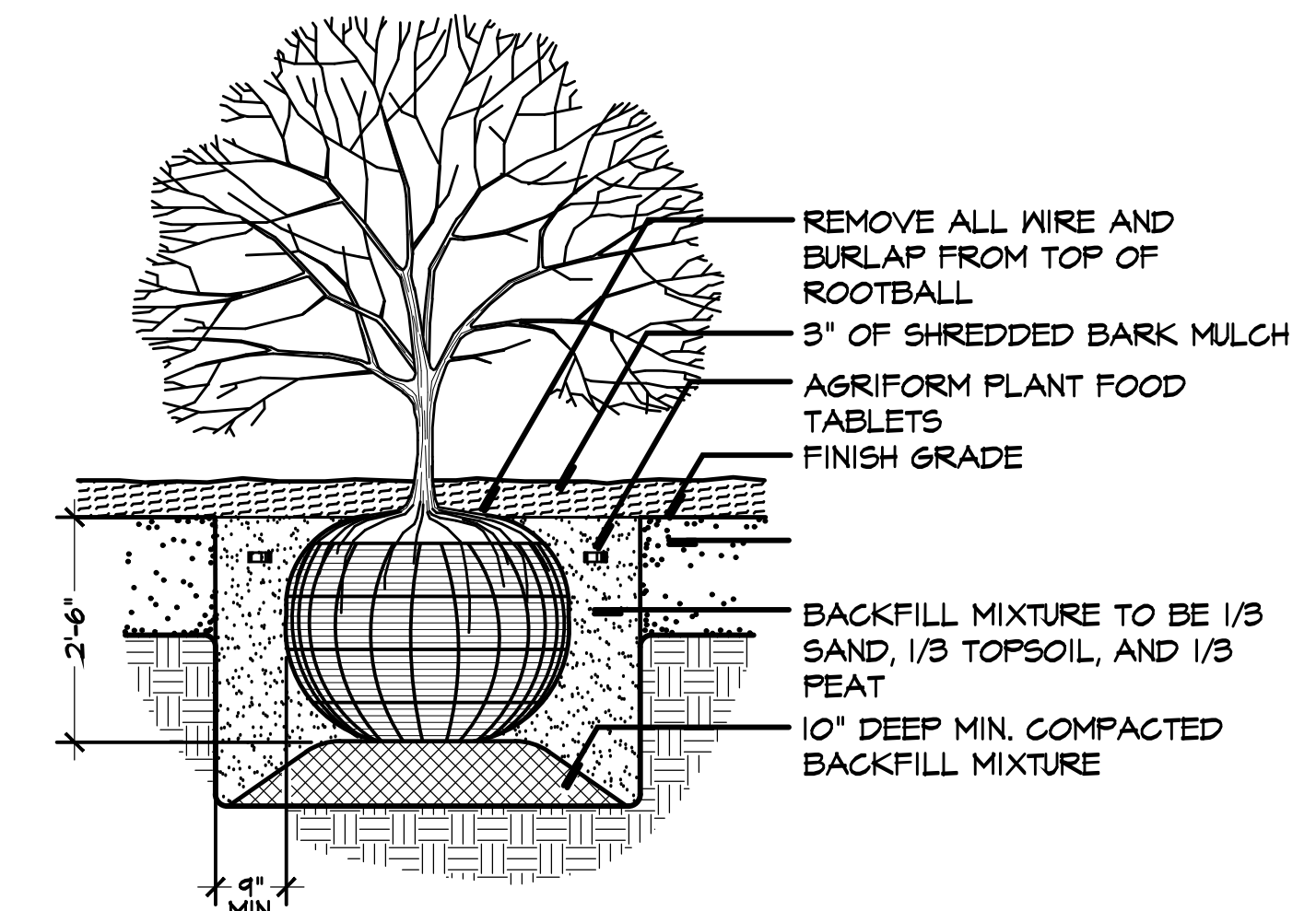
Bench
Scale: 1"=1'-0" PRODUCT DATA REQUIRED



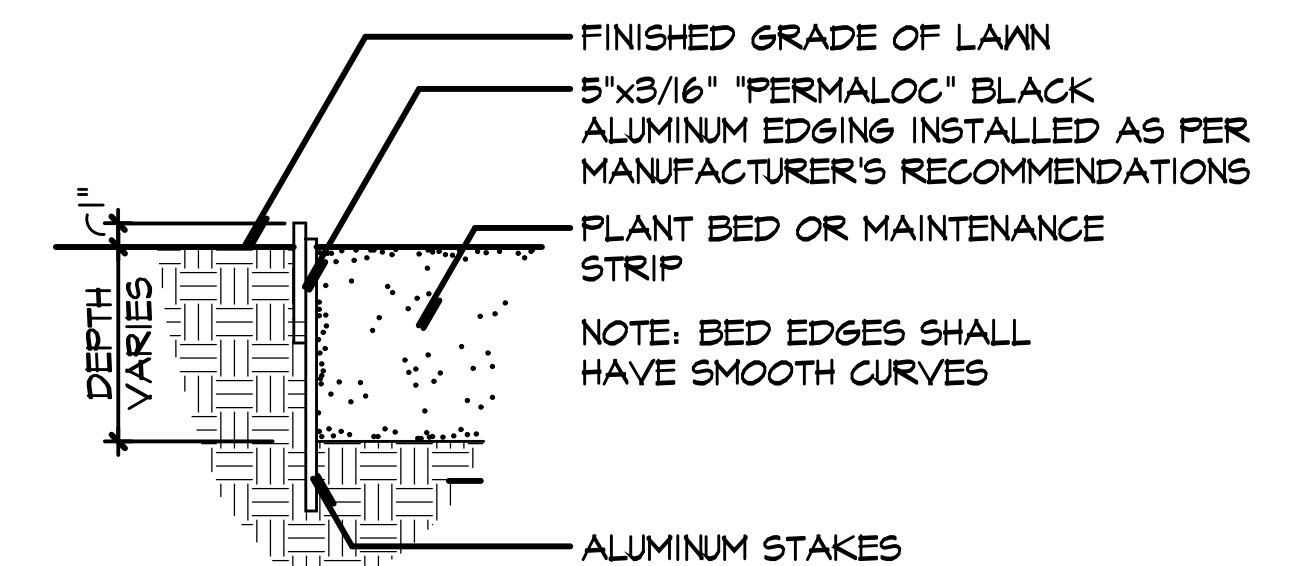


SPACING CHART		
SPACING	D	A
12" O.C.	12"	10.4"
18" O.C.	18"	15.6"
24" O.C.	24"	20.8"

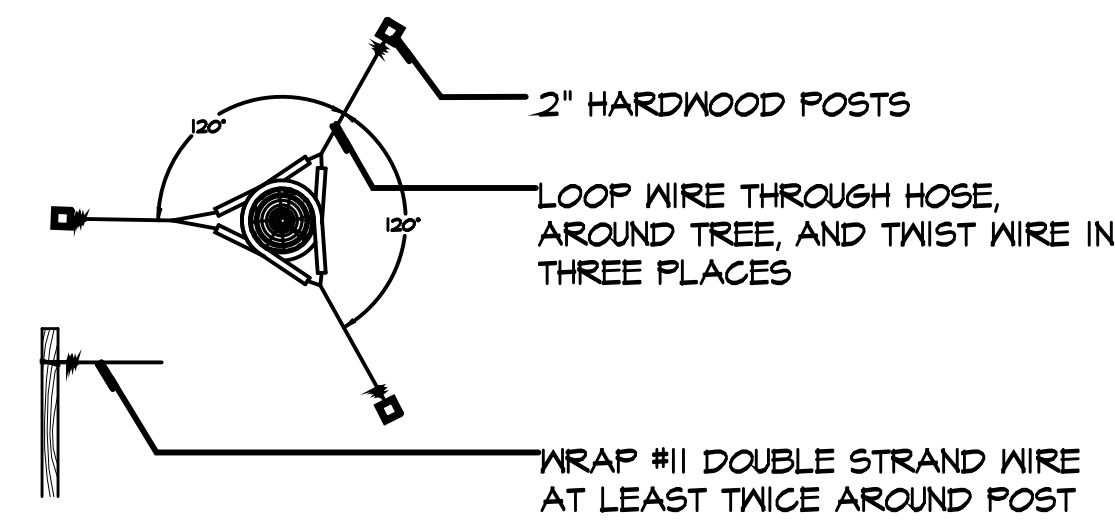
Plant Spacing Diagram
Scale: Not To Scale



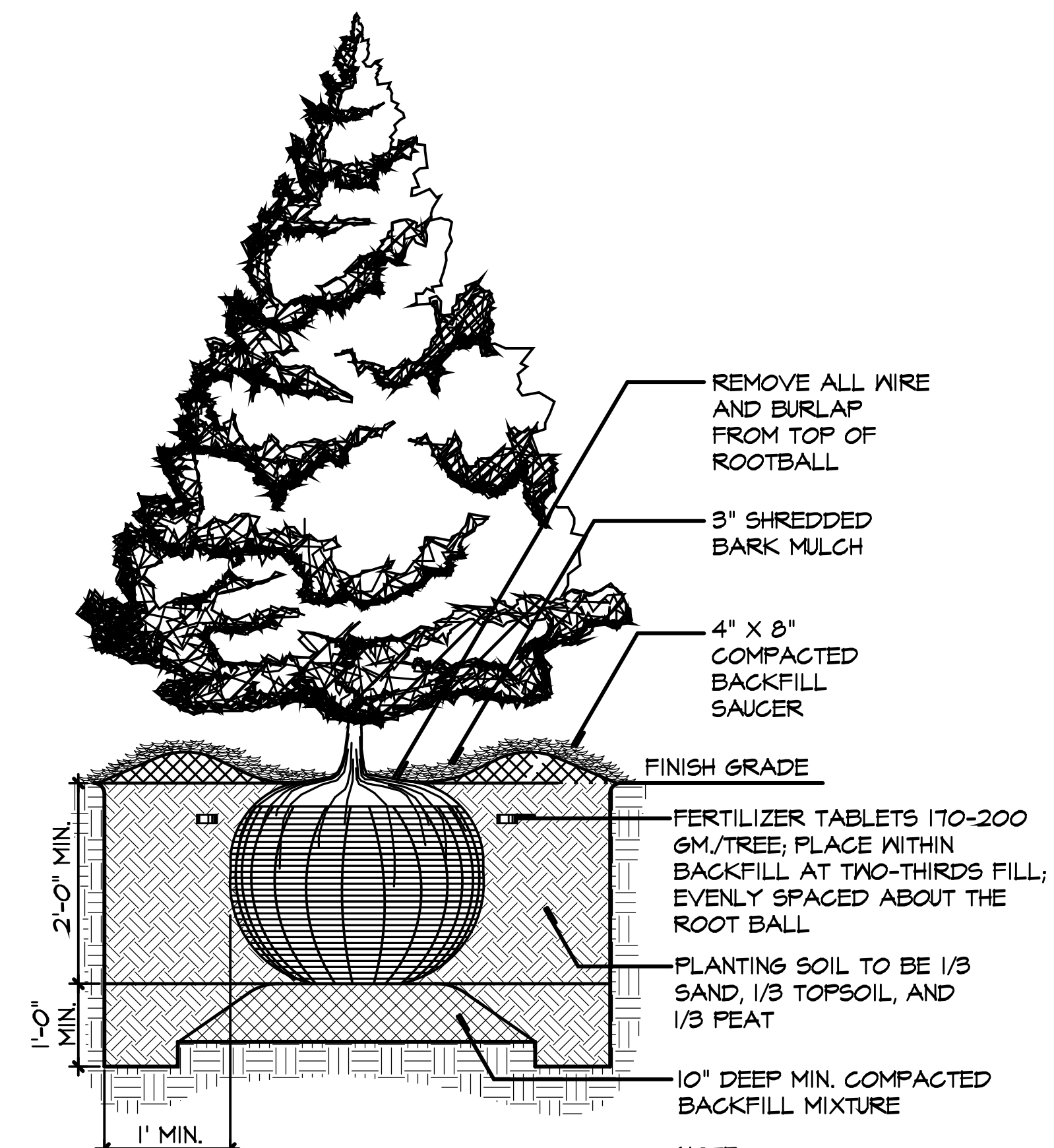
Shrub Installation
Scale: 1/2"=1'-0"



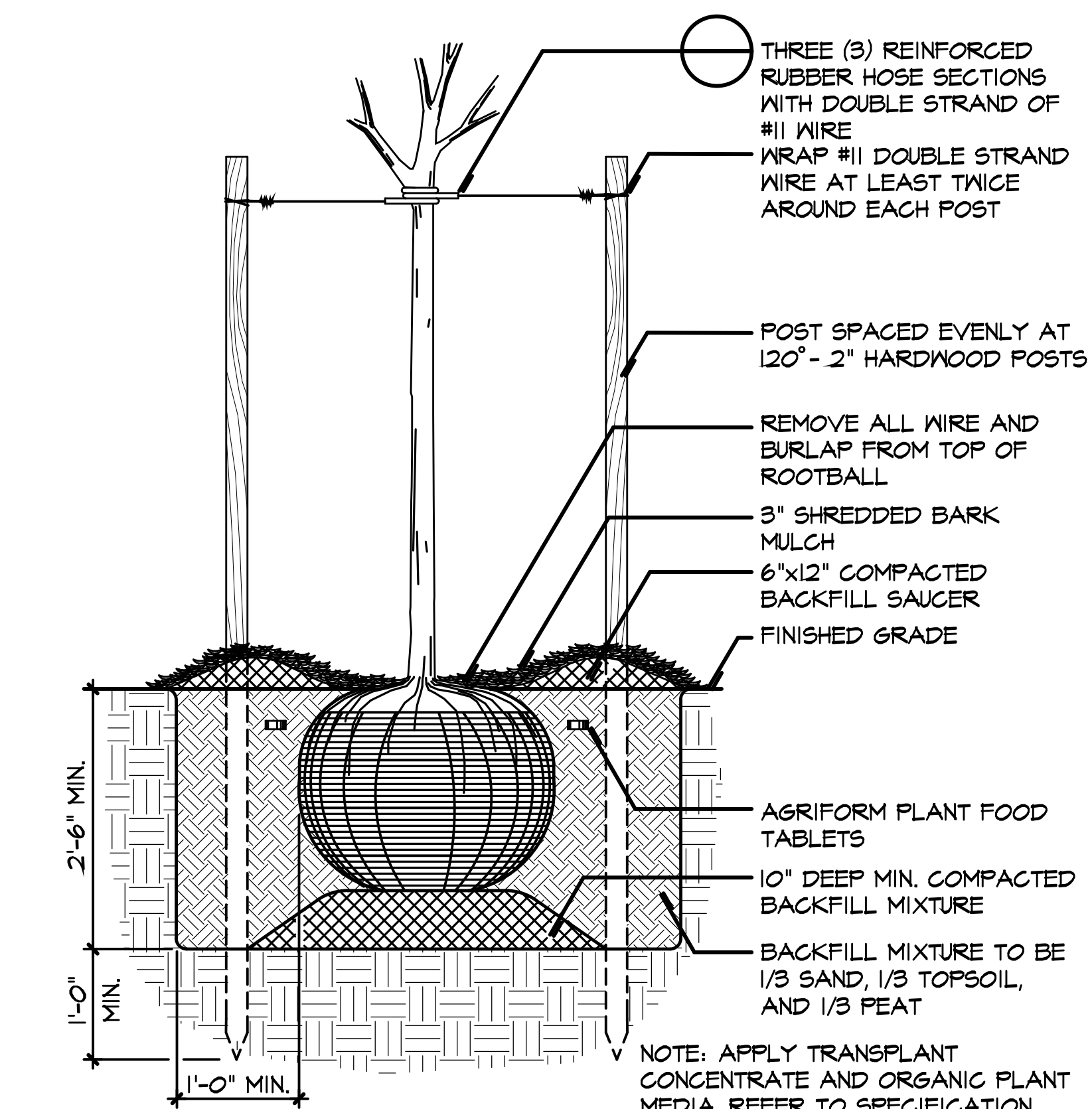
Landscape Edger
Scale: 1-1/2"=1'-0"



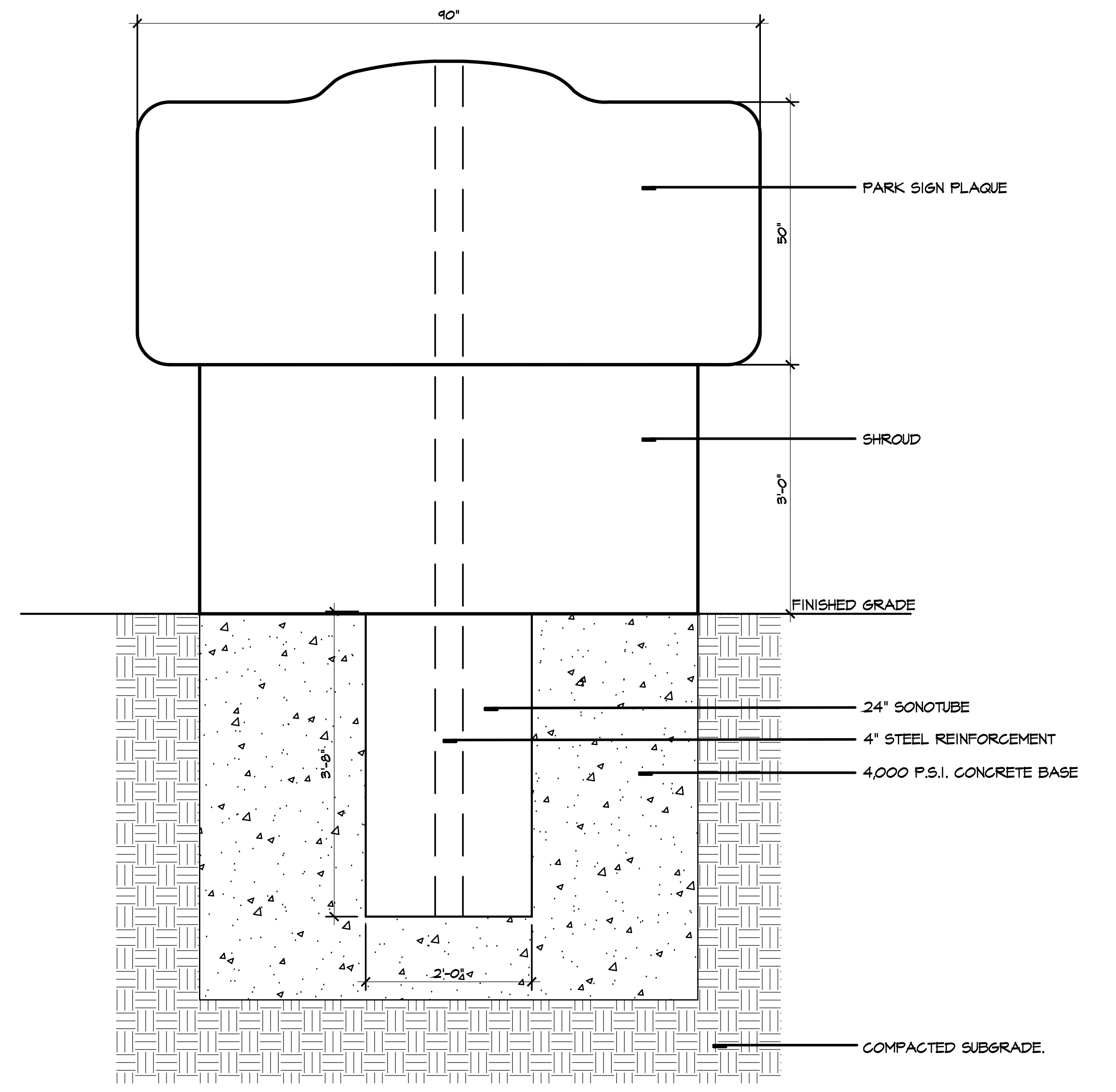
Bracing Detail
Scale: 1/2"=1'-0"



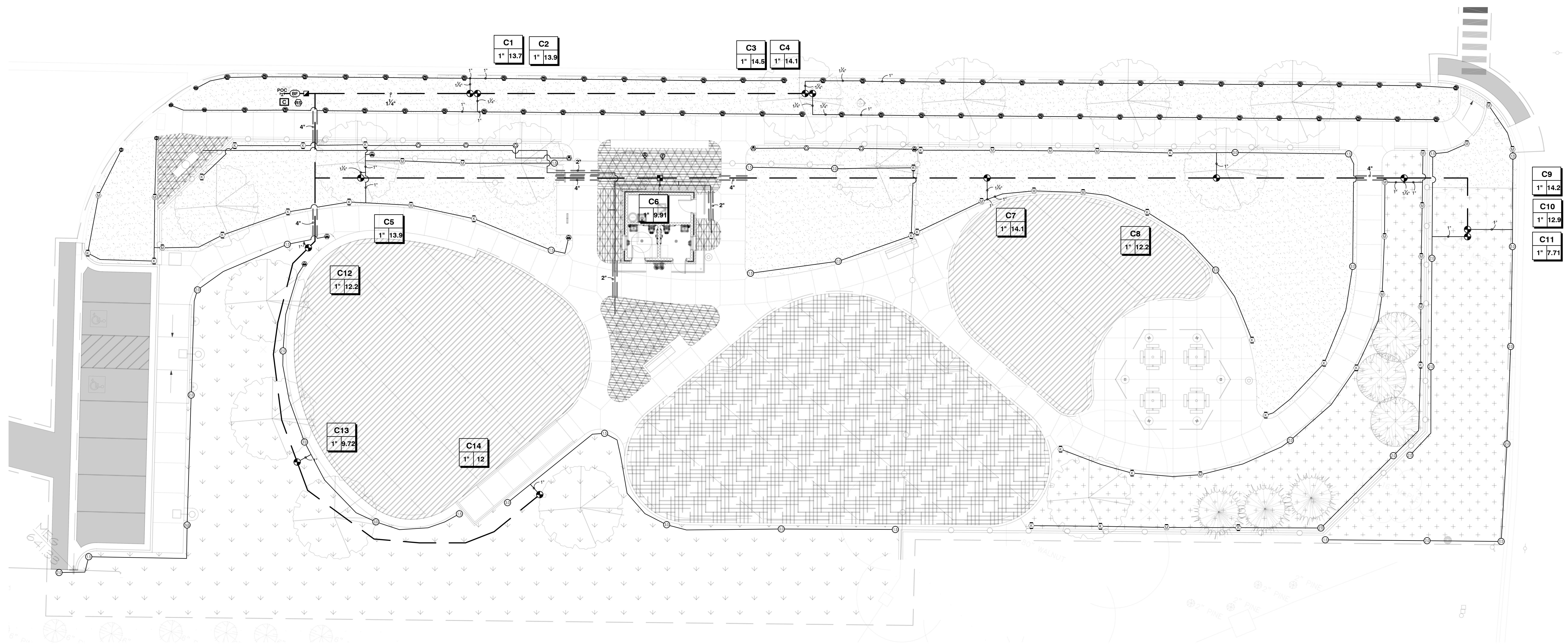
Evergreen Tree Installation
Scale: Not To Scale SUBMITTAL REQUIRED



Tree Installation Detail
Scale: Not To Scale



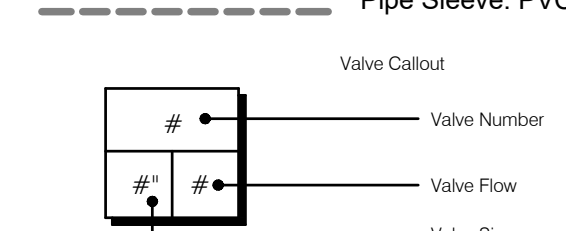
Park Sign
Scale: 1"=1'-0" PRODUCT DATA REQUIRED



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY
○ T H F	Hunter PROS-04 8' radius Rain Bird 1804 8' Series MPR	3
○ T H F	Hunter PROS-04 10' radius Rain Bird 1804 10' Series MPR	63
LST RST SST	Hunter MP Strip PROS-04-PRS40-CV Rain Bird 1804SAMP45 W/ MP Strip	12
○ T H F	Hunter MP1000 PROS-04-PRS40-CV Rain Bird 1804SAMP45 W/ MP1000	24
○ T H F	Hunter MP2000 PROS-04-PRS40-CV Rain Bird 1804SAMP45 W/ MP2000	26
ADJ 360	Hunter MP800SR PROS-04-PRS40-CV Rain Bird 1804SAMP45 W/ MP800SR	2
①	Hunter PGP-04 1.5 Rain Bird 5004PC	14
②	Hunter PGP-04 2.0 Rain Bird 5004PC	16
③	Hunter PGP-04 3.0 Rain Bird 5004PC	9
■	Hunter PCZ-101-40 1" Rain Bird XCZ-100-PRF 1"	1
⊕	Flush Valve	1
⊕	Drip Air Relief Valve	1
▬▬▬▬▬	Area to Receive Dripline Hunter HDL-06-12-12 Rain Bird XFD-06-12	992.1 l.f.

SYMBOL	MANUFACTURER/MODEL	QTY
⊕	Hunter PGV-101G 1" Rain Bird PQA-100 1"	13
⊕	Hunter HQ-SRC 1" Rain Bird 5RC 1"	1
BF	Febco 825Y 1"	1
C	Hunter P2C-400 w/ (01) PCM-300 & (01) PCM-900 Rain Bird ESP4ME3 with (2) ESP-SM3 (1) ESP-SM6	1
⊕	Hunter WR-CLIK Rain Bird WR2-RC	1
POC	POC 1"	1
—	Irrigation Lateral Line: Polyethylene Pipe 100 PSI 1"	2,464 l.f.
—	Irrigation Lateral Line: Polyethylene Pipe 100 PSI 1 1/4"	46.2 l.f.
—	Irrigation Mainline: PVC Class 160 SDR 26 1 1/4"	588.7 l.f.
—	Pipe Sleeve: PVC Schedule 40 2"	26.2 l.f.
—	Pipe Sleeve: PVC Schedule 40 4"	37.7 l.f.



IRRIGATION SPECIFICATIONS

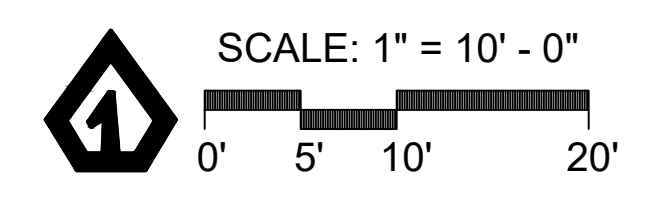
- IRRIGATION SYSTEM DESIGN BASED ON 16 GPM AT 61 PSI.
- IRRIGATION DESIGN IS FROM THE POINT OF CONNECTION (POC) ONLY. THE DESIGN IS BASED ON GALLONS PER MINUTE (GPM) AND POUNDS PER SQUARE INCH (PSI) FURNISHED BY OTHERS.
- IRRIGATION CONTRACTOR IS TO VERIFY POINT OF CONNECTION IN THE FIELD. INSTALLER IS TO CONFIRM THE MINIMUM DISCHARGE REQUIREMENTS OF THE POINT OF CONNECTION AS INDICATED ON THE LEGEND PRIOR TO INSTALLATION.
- THE PRESSURE REQUIREMENT AT THE POINT OF CONNECTION IS BASED ON NO MORE THAN 5 FEET OF ELEVATION CHANGE IN THE AREAS OF IRRIGATION.
- ALL PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ACCORDING TO LOCAL BUILDING, ELECTRICAL, AND PLUMBING CODES.
- IRRIGATION CONTRACTOR WILL ARRANGE INSPECTIONS REQUIRED BY LOCAL AGENCIES AND ORDINANCES DURING THE COURSE OF CONSTRUCTION AS REQUIRED. ALL WIRING IS TO BE PER LOCAL CODE. BACKFLOW PREVENTION TO BE PER LOCAL CODE.
- LOCATION OF IRRIGATION COMPONENTS SHOWN ON DRAWING IS APPROXIMATE. ACTUAL PLACEMENT MAY VARY SLIGHTLY AS REQUIRED TO ACHIEVE FULL, EVEN COVERAGE.
- ALL SPRINKLER HEADS SHALL BE INSTALLED PERPENDICULAR TO FINISH GRADES. EXCEPT AS OTHERWISE INDICATED.
- INSTALL IRRIGATION MAINS WITH A MINIMUM 18" OF COVER BASED ON FINISH GRADES. INSTALL IRRIGATION LATERALS WITH MINIMUM 12" OF COVER BASED ON FINISH GRADES.
- PIPE LOCATIONS ARE DIAGRAMMATIC. VALVES AND MAINLINE SHOWN IN PAVED AREAS ARE FOR GRAPHIC CLARITY ONLY.
- THE IRRIGATION CONTRACTOR SHALL COMPLY WITH PIPE SIZES AS INDICATED.
- ALL WIRE SPLICES OR CONNECTIONS SHALL BE MADE WITH APPROVED WATERPROOF WIRE CONNECTIONS AND BE IN A VALVE OR SPLICE BOX.
- ALL CONTROL WIRING DOWNSTREAM OF THE CONTROLLER IS TO BE 14 AWG, UL APPROVED DIRECT BURY.
- THE DESIGN IS BASED ON THE SITE INFORMATION AND/OR DRAWING SUPPLIED WITH THE DESIGN CRITERIA BEING SET (AREA TO BE IRRIGATED, EQUIPMENT MANUFACTURER AND MODEL TO BE USED, WATER SOURCE INFORMATION, ELECTRICAL POWER AVAILABILITY, ETC...). SITEONE LANDSCAPE SUPPLY BEARS NO RESPONSIBILITY OR LIABILITY FOR ANY ERRORS IN DESIGN OR INSTALLATION THAT ARISE DUE TO INACCURACIES IN THE ABOVE REFERENCED INFORMATION SUPPLIED TO SITEONE LANDSCAPE SUPPLY LANDSCAPES IN RELATION TO THIS PROJECT, UNLESS OTHERWISE NOTED.



1-800-347-4272
http://www.projects-services.siteone.com

650 Stephenson Highway
Troy, Michigan 48063
Phone 248.588.2100
Fax 248.588.3528
www.siteone.com
800.347.4272
Project Services Number: 383961
HOOGLAND PARK IMPROVEMENTS
ZEELAND, MI, 49464
Design Date: 12/23/24
Checked By: C.BEST

SITEONE LANDSCAPE SUPPLY, LLC ("WE", "US", "OUR") MAKES NO REPRESENTATION OR WARRANTY ABOUT THE SUITABILITY OF ANY OF THE INFORMATION, MATERIALS AND/OR SERVICES ("SERVICES") PROVIDED BY US IN CONNECTION WITH YOUR USE OF OUR PROJECT SERVICES. SERVICES ARE PROVIDED "AS-IS" WITHOUT REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. WE DO NOT ASSUME ANY RESPONSIBILITY OR LIABILITY WHATSOEVER FOR YOUR USE OF THE SERVICES. ANY USE OF THE SERVICES IS DONE AT YOUR OWN DISCRETION AND RISK AND YOU WILL BE SOLELY RESPONSIBLE FOR ANY DAMAGE AND/OR LOSS CAUSED BY YOUR USE OF THE SERVICES. OUR SERVICES ARE PROVIDED IN ACCORDANCE WITH OUR WEBSITE TERMS AND CONDITIONS SET FORTH AT <https://www.siteone.com/en/termsandconditions> AND BY USING OUR SERVICES YOU CONSENT TO SUCH TERMS AND CONDITIONS.



PROGRESS MEETING

DATE	PROJECT NO.
1.8.2025	2211
REVISIONS	SHEET NO.

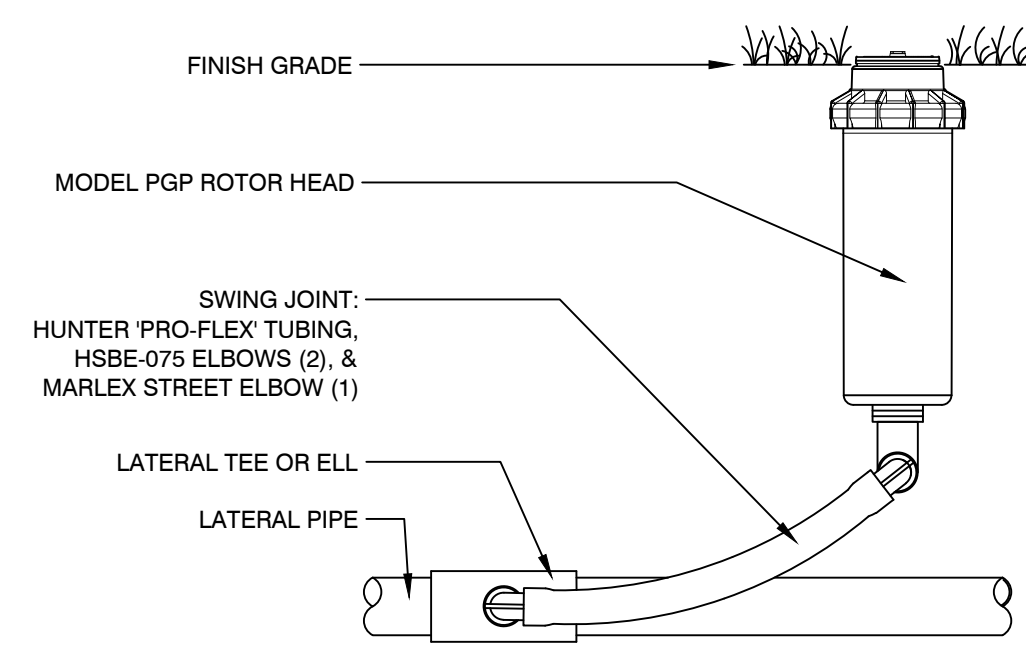
HOOGLAND PARK IMPROVEMENTS
ZEELAND, MICHIGAN



SCALE: 1:10

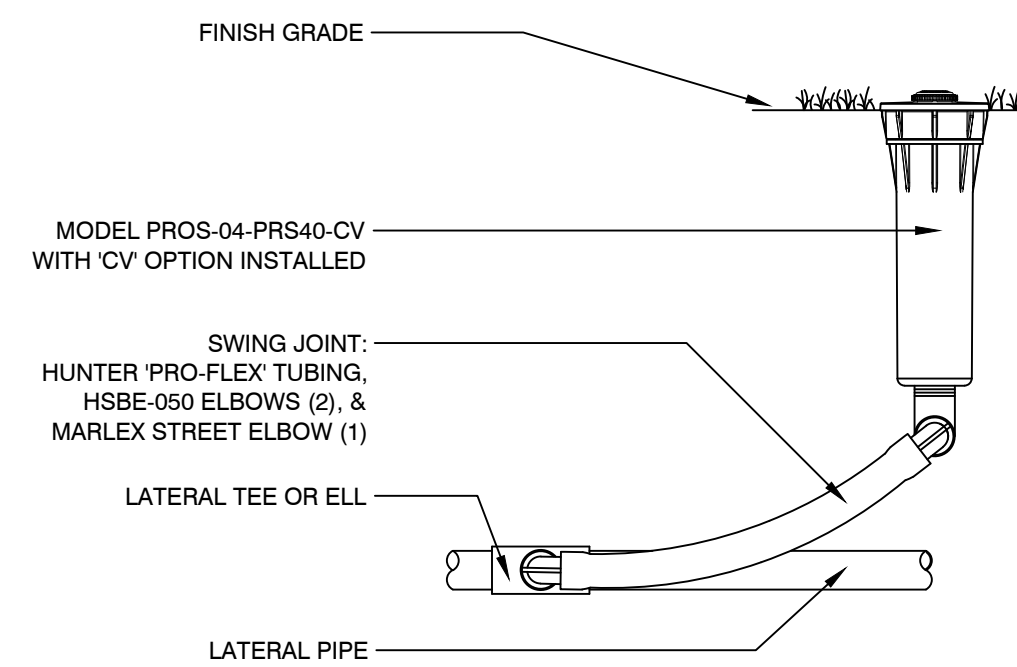
IRRIGATION DESIGN

*When using larger GPM nozzles, beware of high friction loss in swing joints.

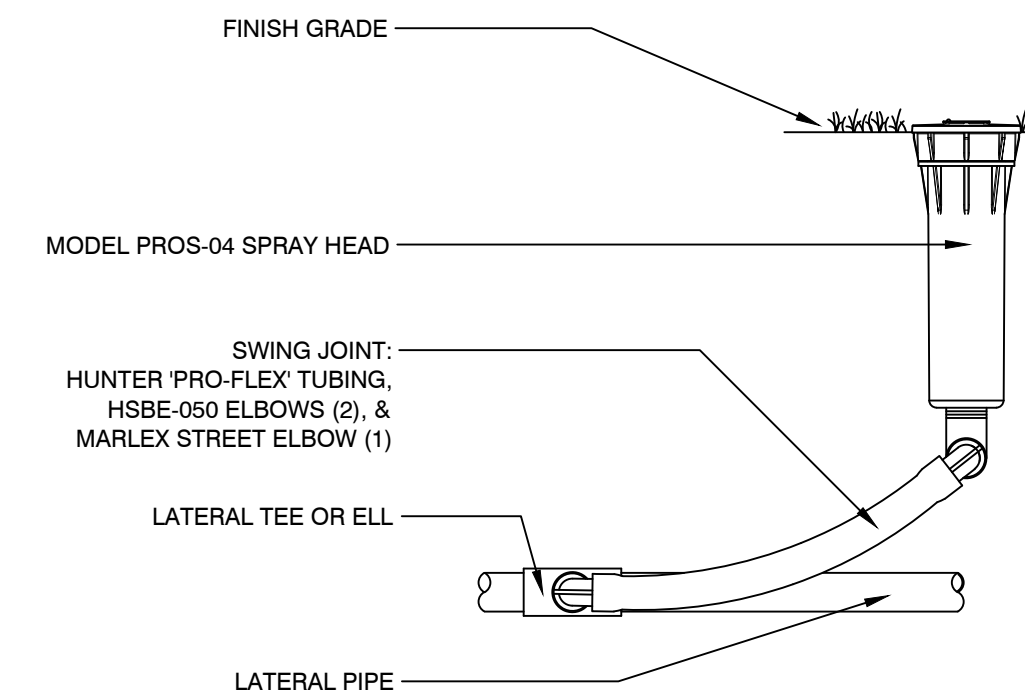


OPTIONS:
 R = FACTORY INSTALLED RECLAIMED RUBBER COVER
 CV = FACTORY INSTALLED DRAIN CHECK VALVE

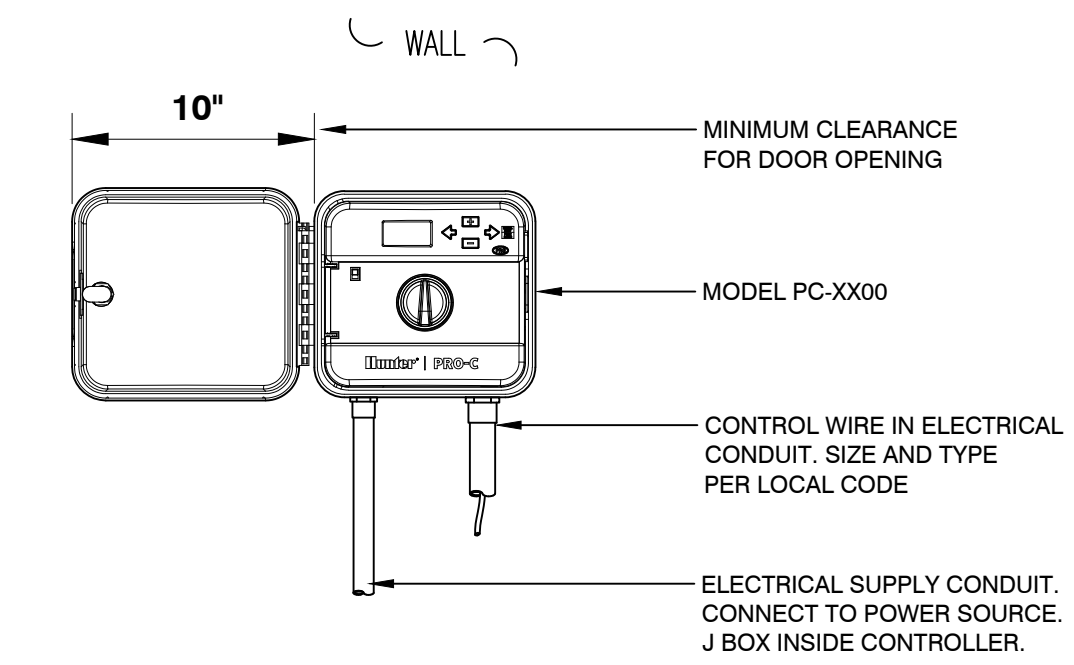
1 PGP ROTOR HEAD WITH PRO-FLEX TUBING
 NTS S1-RO-HUN-01



2 PROS-04-PRS40-CV MP ROTATOR SPRINKLER
 S1-RO-HUN-01



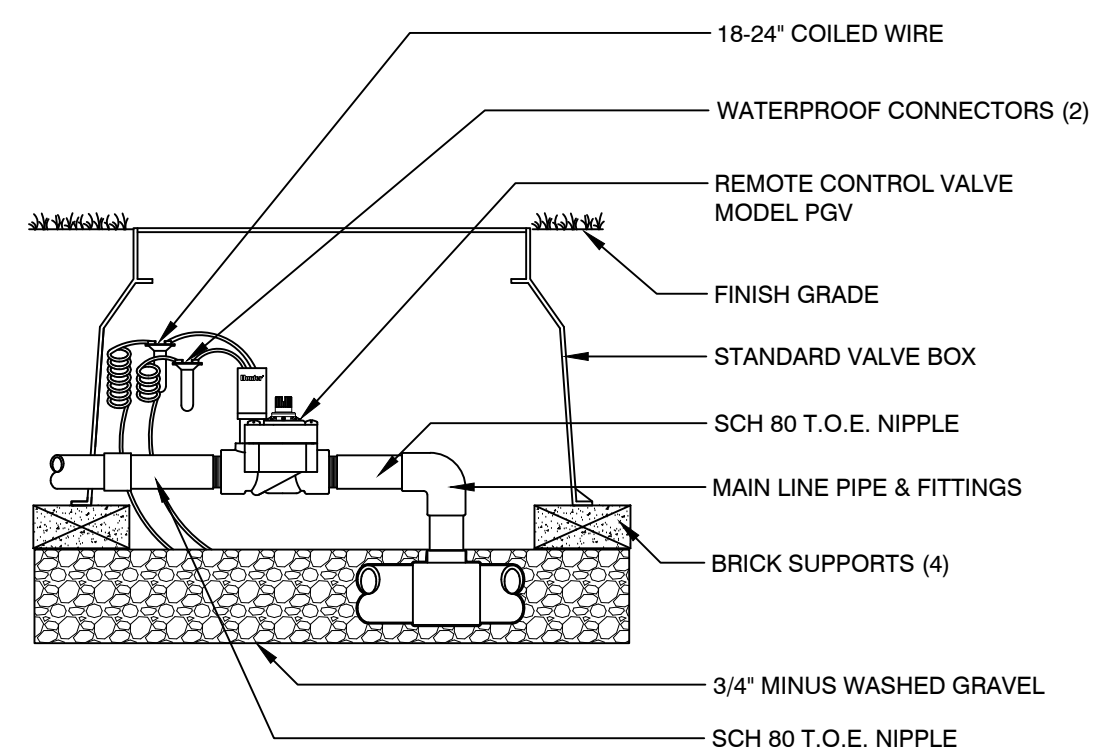
3 PROS-04 SPRAY HEAD WITH PRO-FLEX TUBING
 S1-SP-HUN-01



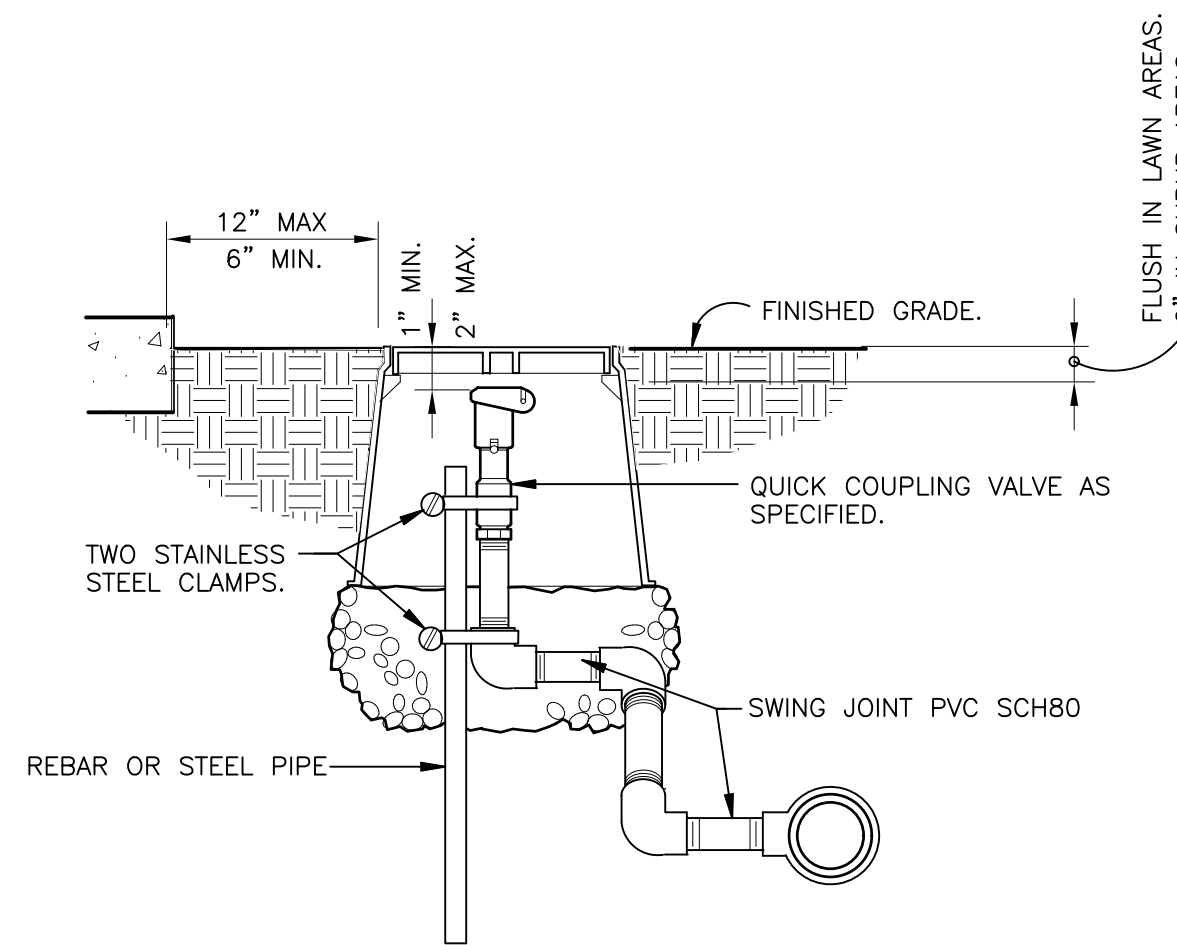
NOTE
 MOUNT CONTROLLER WITH LCD SCREEN AT EYE LEVEL. CONTROLLER SHALL BE HARD-WIRED TO GROUND 110 VAC SOURCE.

4 PRO-C CONTROLLER
 NTS S1-CO-HUN-01

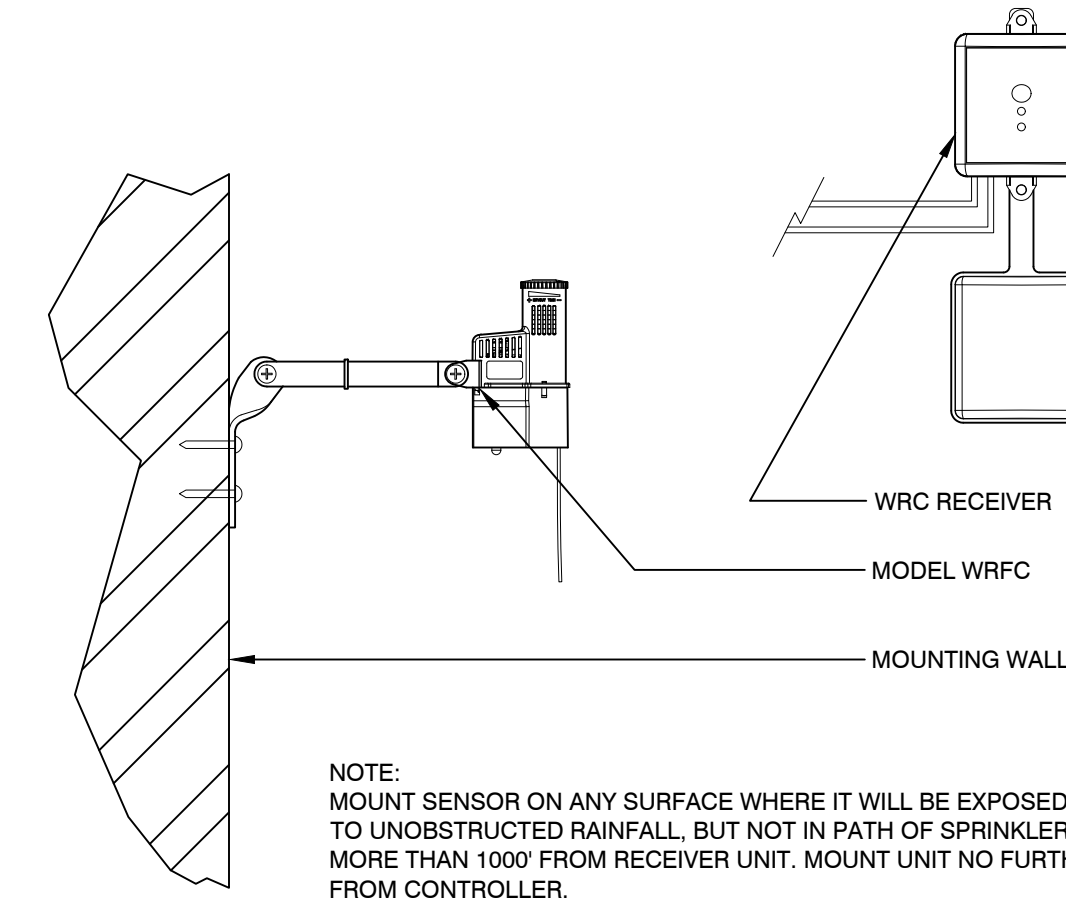
INSTALLATION MAY DIFFER PER LOCAL CODE



5 PGV GLOBE VALVE 1"
 S1-VA-HUN-01

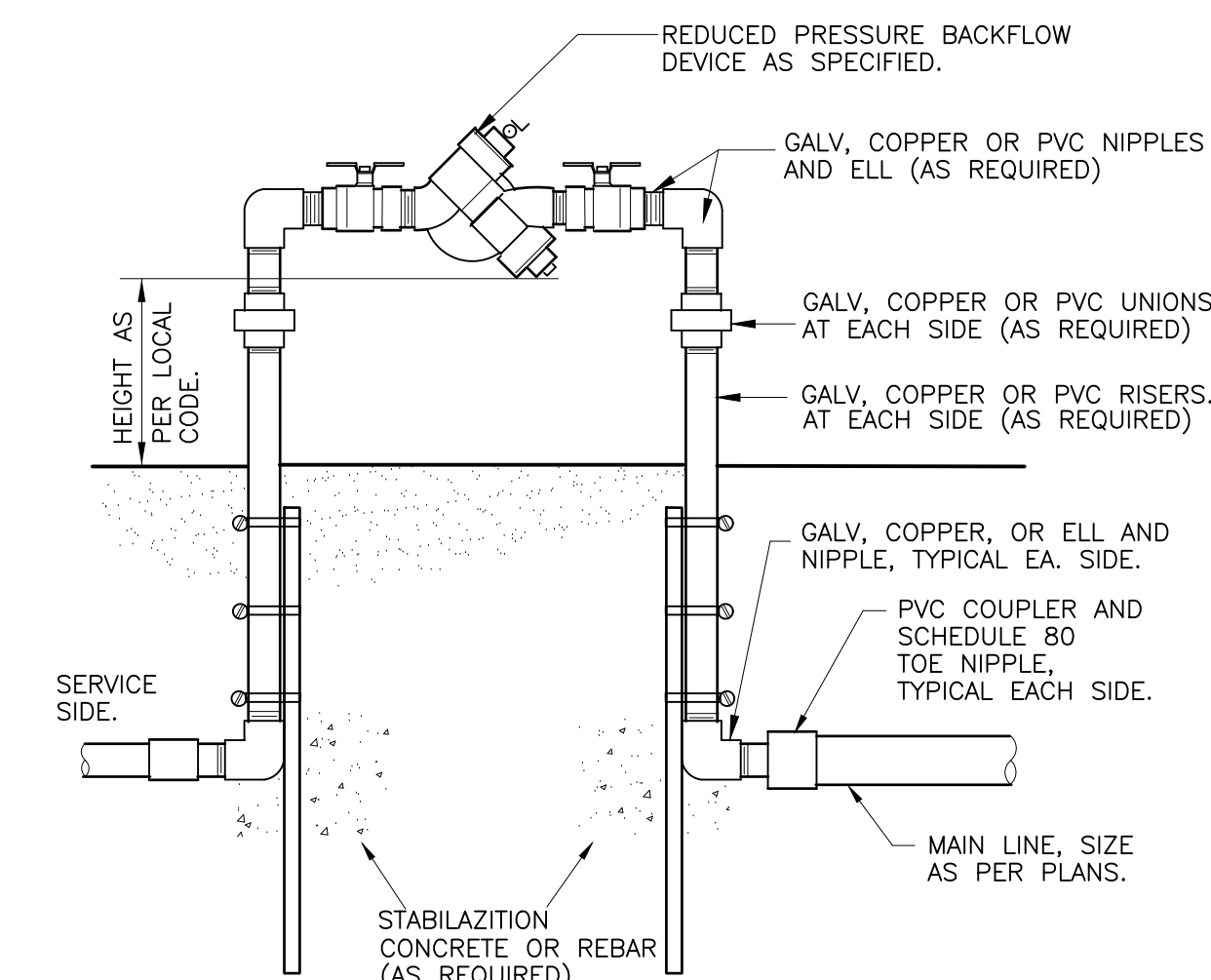


6 QUICK COUPLING VALVE IN BOX
 S1-QU-01

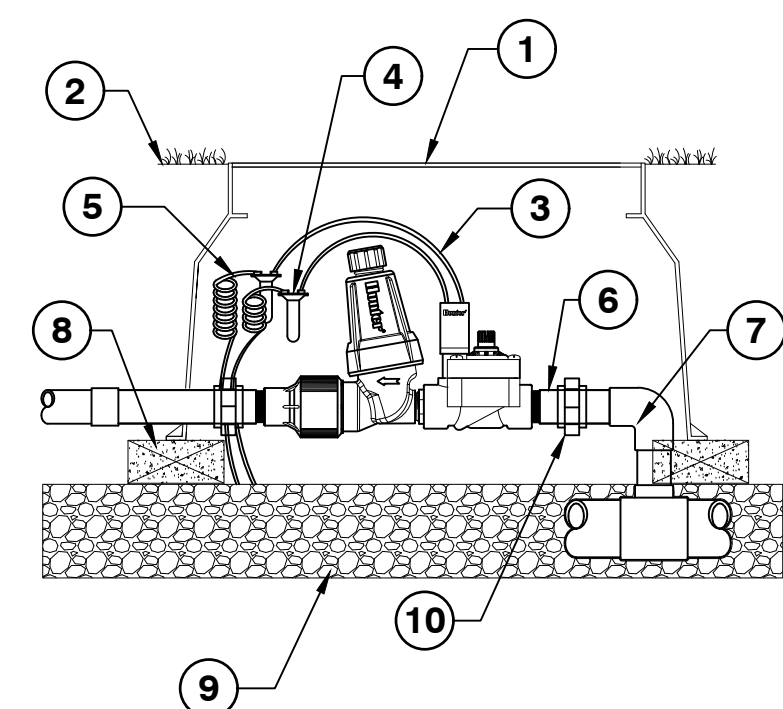


7 WIRELESS RAIN/FREEZE-CLIK
 S1-SE-HUN-02

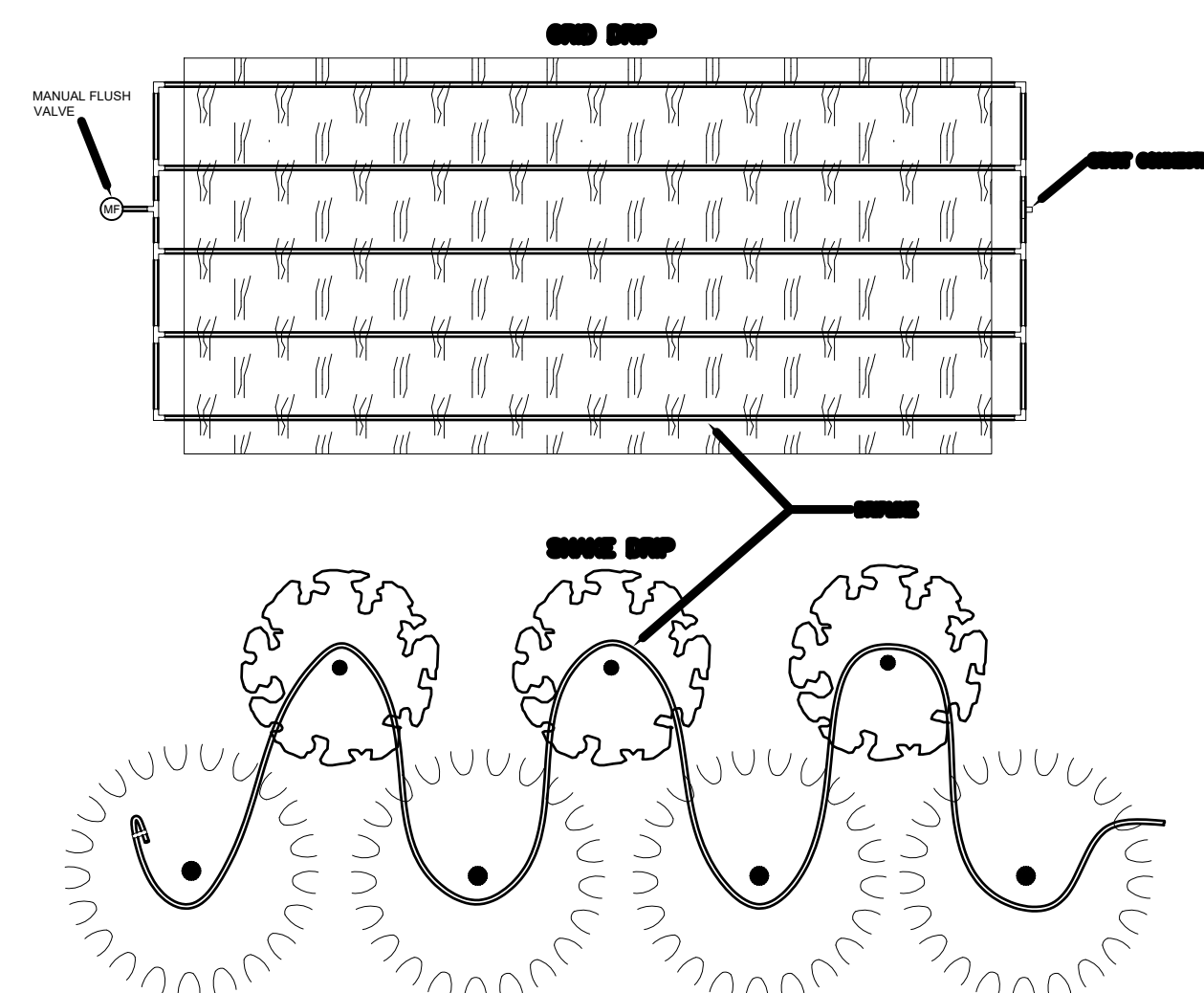
NOTE:
 MOUNT SENSOR ON ANY SURFACE WHERE IT WILL BE EXPOSED TO UNOBSTRUCTED RAINFALL, BUT NOT IN PATH OF SPRINKLER SPRAY, NO MORE THAN 1000' FROM RECEIVER UNIT. MOUNT UNIT NO FURTHER THAN 8' FROM CONTROLLER.



8 REDUCED PRESSURE BACKFLOW DEVICE STANDARD
 S1-BA-01



9 PCZ-101-1 DRIP ZONE KIT
 S1-DR-HUN-01



10 TYPICAL DRIP TUBING LAYOUT
 NTS



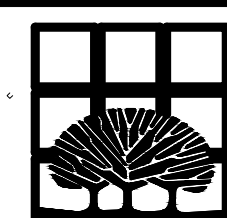
1-800-347-4272
<http://www.projects-services.siteone.com>

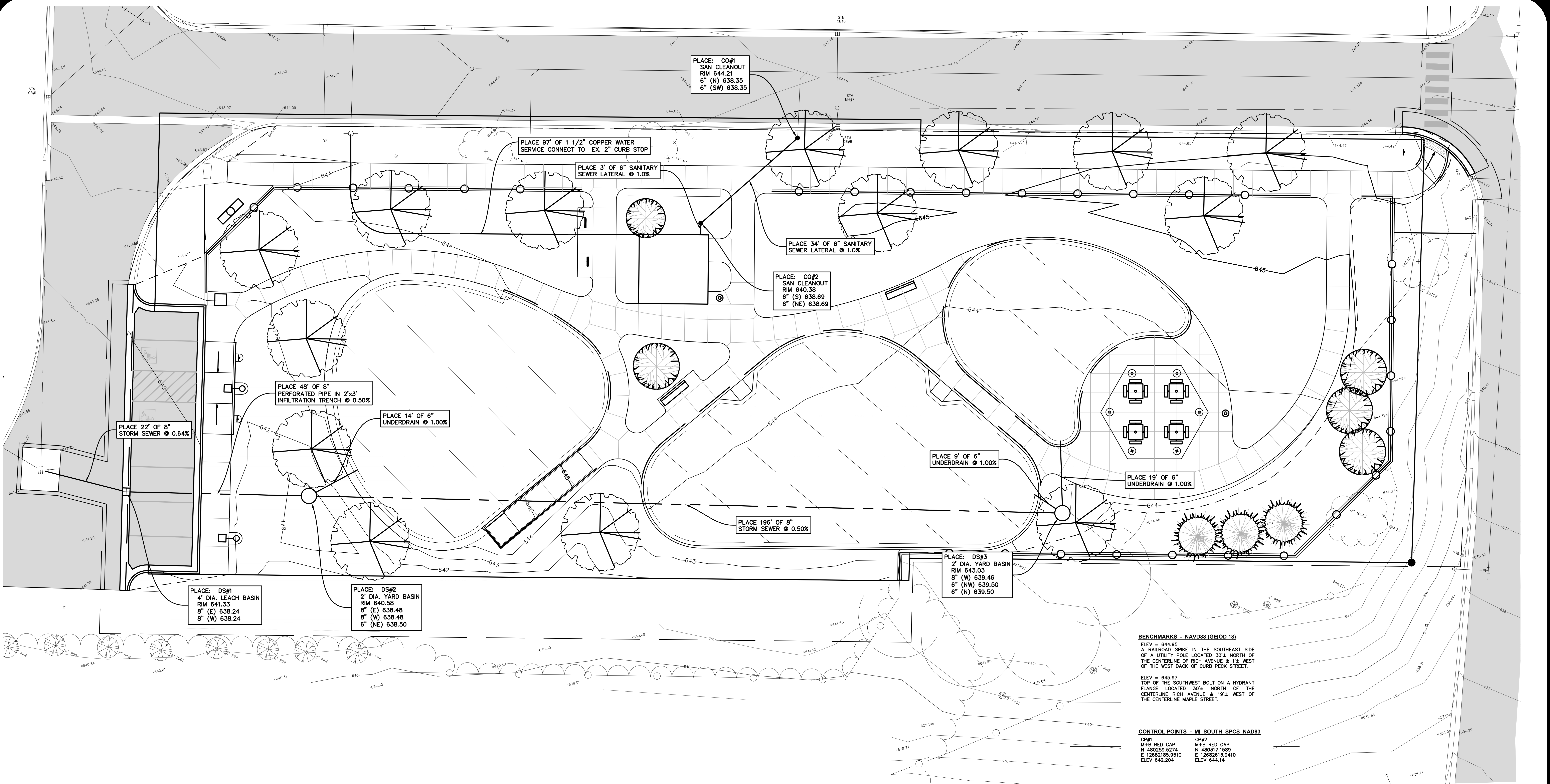
650 Stephenson Highway
 Troy, Michigan 48063
 Phone 248.588.2100
 Fax 248.588.3528
 www.Siteone.com
 800.347.4272
 Project Services Number: 383961

HOOGLAND PARK IMPROVEMENTS
 ZEELAND, MI, 49464
 Design Date: 12/23/24
 Checked By: C.BEST

SITEONE LANDSCAPE SUPPLY, LLC ("WE", "US", "OUR") MAKES NO REPRESENTATION OR WARRANTY ABOUT THE SUITABILITY OF ANY OF THE INFORMATION, MATERIALS AND/OR SERVICES ("SERVICES") PROVIDED BY US IN CONNECTION WITH YOUR USE OF OUR PROJECT SERVICES. SERVICES ARE PROVIDED "AS-IS" WITHOUT REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. WE DO NOT ASSUME ANY RESPONSIBILITY OR LIABILITY WHATSOEVER FOR YOUR USE OF THE SERVICES. ANY USE OF THE SERVICES IS DONE AT YOUR OWN DISCRETION AND RISK AND YOU WILL BE SOLELY RESPONSIBLE FOR ANY DAMAGE AND/OR LOSS CAUSED BY YOUR USE OF THE SERVICES. OUR SERVICES ARE PROVIDED IN ACCORDANCE WITH OUR WEBSITE TERMS AND CONDITIONS SET FORTH AT <https://www.siteone.com/en/termsandconditions> AND BY USING OUR SERVICES YOU CONSENT TO SUCH TERMS AND CONDITIONS.

PROGRESS MEETING





PLACE: CO#1
SAN CLEANOUT
RIM 644.21
6" (N) 638.35
6" (SW) 638.35

PLACE 97' OF 1 1/2" COPPER WATER
SERVICE CONNECT TO EX. 2" CURB STOP

PLACE 3' OF 6" SANITARY
SEWER LATERAL @ 1.0%

PLACE 34' OF 6" SANITARY
SEWER LATERAL @ 1.0%

PLACE: CO#2
SAN CLEANOUT
RIM 640.38
6" (S) 638.69
6" (NE) 638.69

PLACE 48' OF 8" PERFORATED PIPE IN 2'x3'
INFILTRATION TRENCH @ 0.50%

PLACE 14' OF 6" UNDERDRAIN @ 1.00%

PLACE 22' OF 8" STORM SEWER @ 0.64%

PLACE 9' OF 6" UNDERDRAIN @ 1.00%

PLACE 19' OF 6" UNDERDRAIN @ 1.00%

PLACE 196' OF 8" STORM SEWER @ 0.50%

PLACE: DS#3
2' DIA. YARD BASIN
RIM 643.03
8" (W) 639.46
6" (NW) 639.50
6" (N) 639.50

PLACE: DS#1
4' DIA. LEACH BASIN
RIM 641.33
8" (E) 638.24
8" (W) 638.24

PLACE: DS#2
2' DIA. YARD BASIN
RIM 640.58
8" (E) 638.48
8" (W) 638.48
6" (NE) 638.50

BENCHMARKS - NAVD88 (GEIOD 18)
ELEV = 644.95
A RAILROAD SPIKE IN THE SOUTHEAST SIDE OF A UTILITY POLE LOCATED 30'± NORTH OF THE CENTERLINE OF RICH AVENUE & 1'± WEST OF THE WEST BACK OF CURB PECK STREET.
ELEV = 645.97
TOP OF THE SOUTHWEST BOLT ON A HYDRANT FLANGE LOCATED 30'± NORTH OF THE CENTERLINE RICH AVENUE & 19'± WEST OF THE CENTERLINE MAPLE STREET.

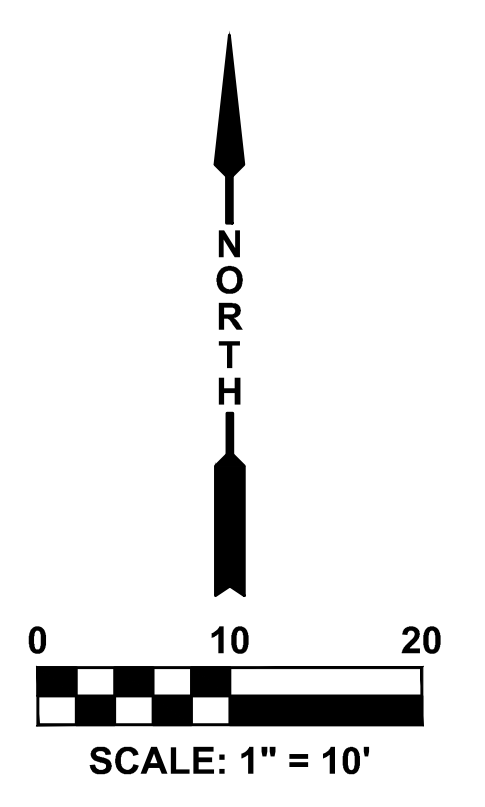
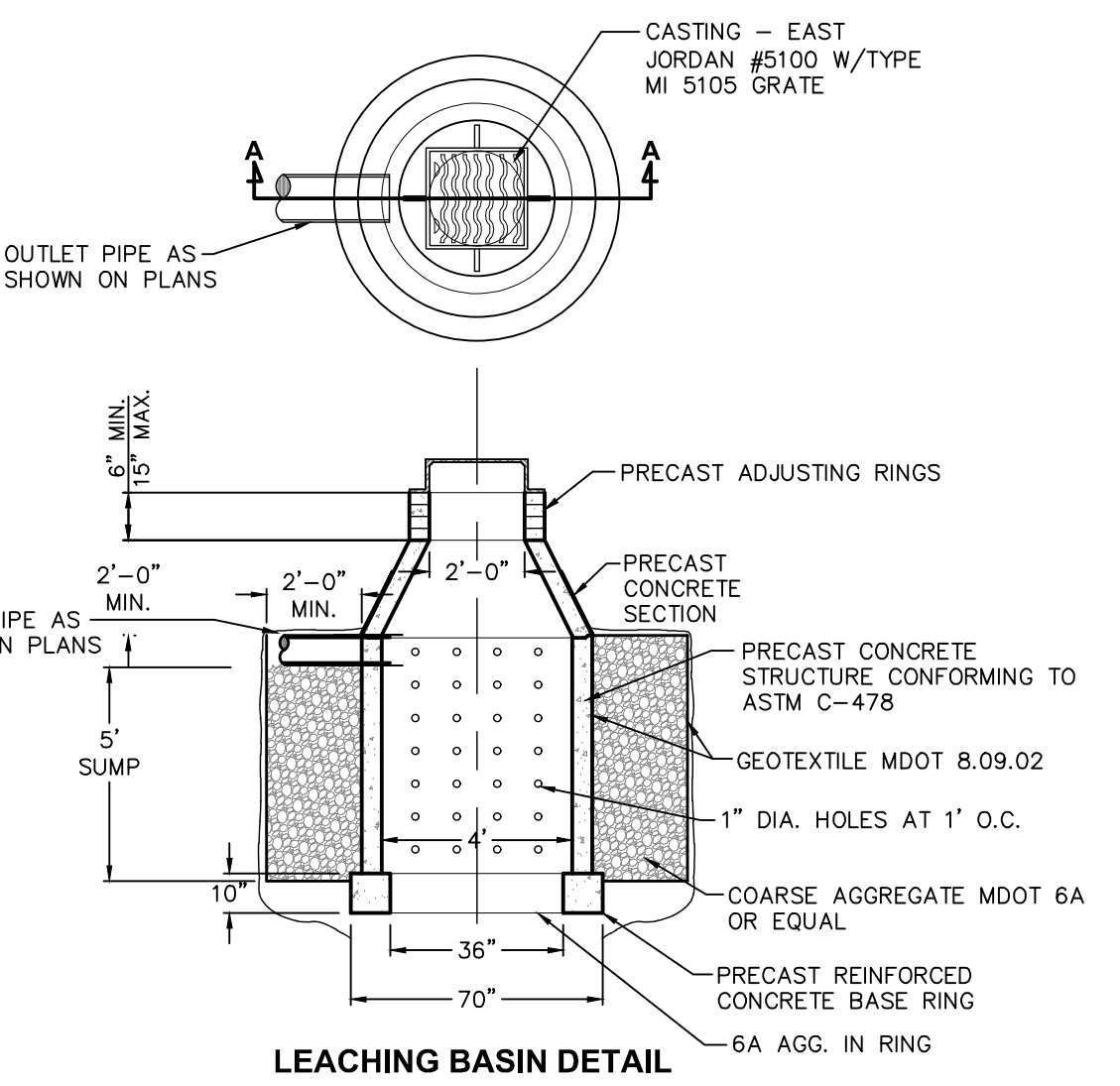
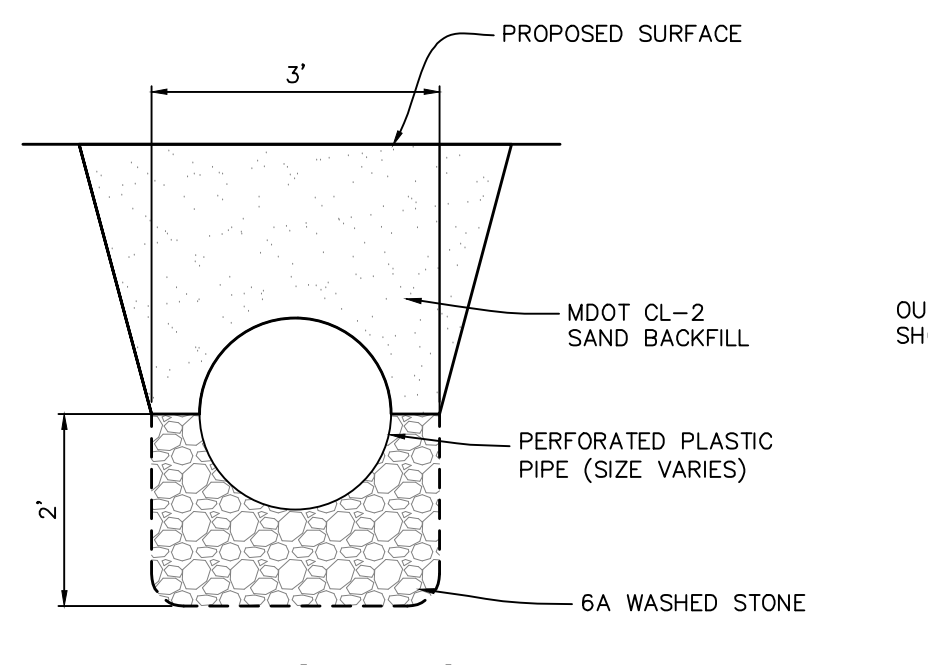
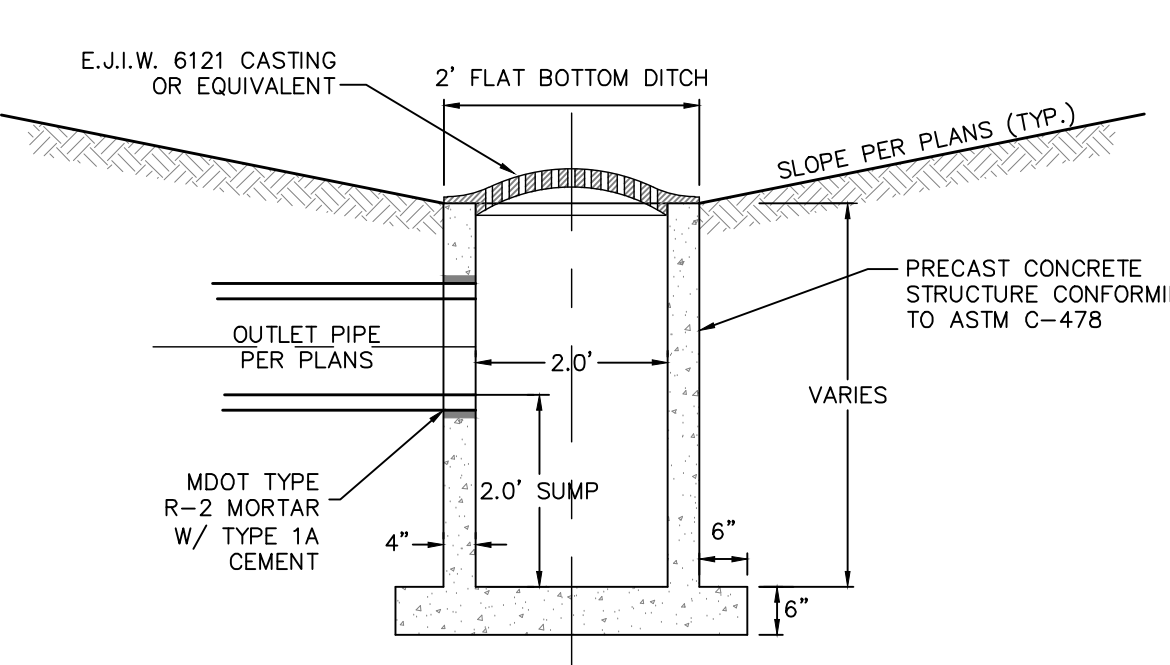
CONTROL POINTS - MI SOUTH SPCS NAD83
CP#1 M+8 RED CAP N 480259.5274 E 12662155.9510 ELEV 642.504
CP#2 M+8 RED CAP N 480317.1589 E 12662213.9410 ELEV 644.14

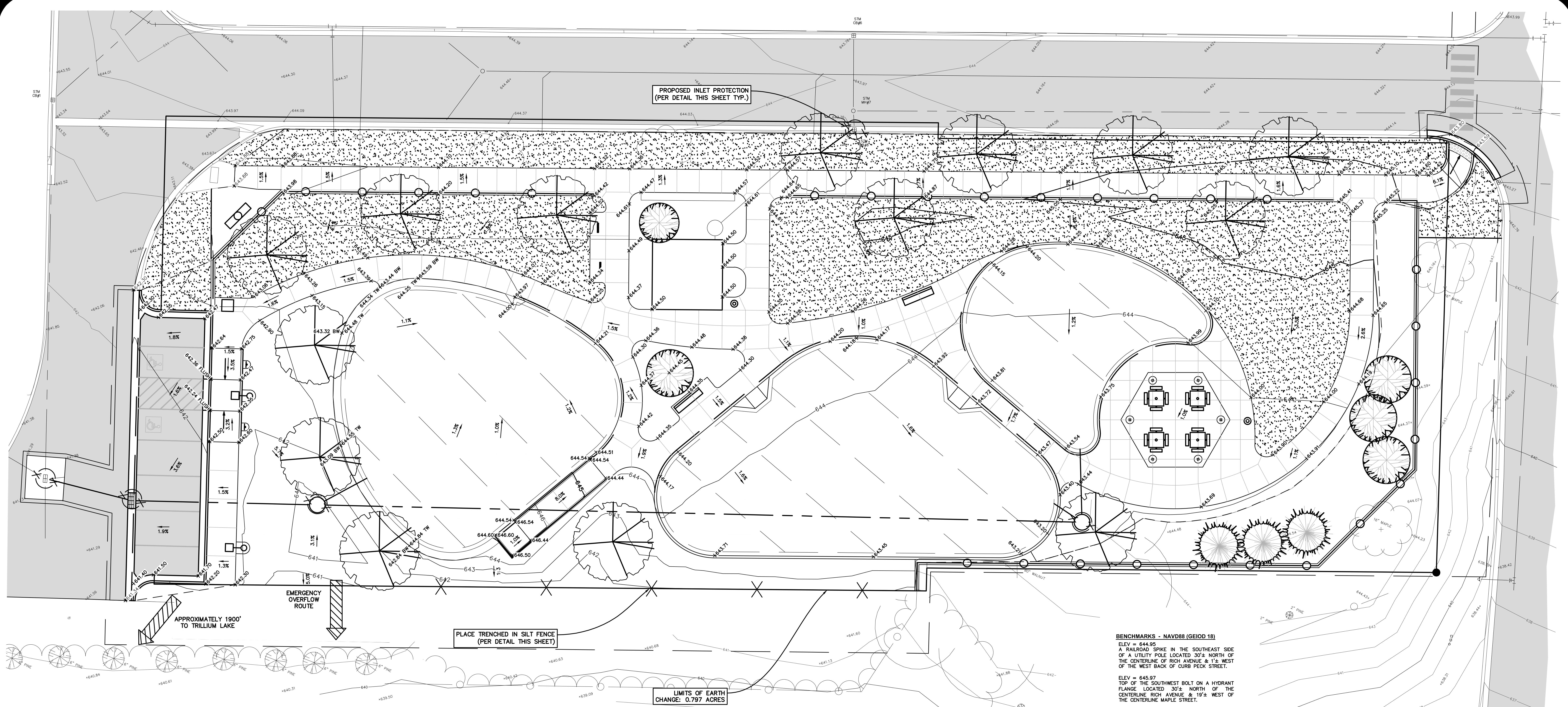
EXISTING UNDERGROUND UTILITY DATA

STORM CB#1 RIM 643.34 12" CONC INV S 638.44 12" CONC INV NE 638.44 BOTTOM STRUCTURE 635.39 2'x2' SQ RIM 4' DIA PRECAST STRUCTURE	STORM CB#2 RIM 643.70 12" CONC INV SW 639.75 6" CPV INV NW 640.65 6" CPV INV SE 640.70 6" PVC INV NE 640.30 BOTTOM STRUCTURE 637.25 2'x2' SQ RIM 2' DIA PRECAST STRUCTURE	STORM CB#3 RIM 641.00 6" CPV INV ESE 638.10 6" PVC INV WNW 638.10 12" CONC INV S 636.65 12" CONC INV N 636.50 BOTTOM STRUCTURE 634.90 2'x3' REC RIM 4' DIA CONC BLOCK STRUCTURE	STORM CB#4 RIM 640.57 6" PVC INV WNW 638.57 BOTTOM STRUCTURE 636.47 2'x2' SQ RIM 4' DIA PRECAST STRUCTURE DEBRIS	STORM CB#5 RIM 644.39 6" PVC INV E 638.49 6" PVC INV NW 638.69 6" PVC INV SW 638.69 2' DIA RIM 4' DIA PRECAST STRUCTURE	STORM CB#6 RIM 643.61 12" CONC INV S 640.51 BOTTOM STRUCTURE 637.71 2'x2' SQ RIM 4' DIA PRECAST STRUCTURE	STORM MH#7 RIM 643.82 12" CONC INV N 640.27 12" CONC INV S 640.22 12" CONC INV E 640.07 BOTTOM STRUCTURE 639.92 2' DIA RIM 4' DIA PRECAST STRUCTURE	STORM MH#8 RIM 643.67 12" CONC INV N 640.27 12" CONC INV E 638.52 2'x2' SQ RIM 2' DIA PRECAST STRUCTURE	STORM MH#9 RIM 644.29 12" CONC INV NW 639.59 12" CONC INV NE 639.79 12" CONC INV S 639.49 BOTTOM STRUCTURE 639.29 2' DIA RIM 4' DIA PRECAST STRUCTURE	STORM CB#14 RIM 643.13 12" CONC INV NW 640.13 12" CONC INV ESE 639.63 BOTTOM STRUCTURE 637.23 2'x2' SQ RIM 4' DIA PRECAST STRUCTURE	STORM MH#11 RIM 644.17 12" CONC INV N 639.22 12" CONC INV E 639.22 12" CONC INV S 639.17 12" CONC INV W 639.37 BOTTOM STRUCTURE 639.07 2' DIA RIM 4' DIA PRECAST STRUCTURE	STORM MH#12 RIM 643.25 12" CONC INV W 639.05 12" CONC INV N 639.05 12" CONC INV E 639.05 12" CONC INV SE 639.05 BOTTOM STRUCTURE 638.75 2' DIA RIM 4' DIA PRECAST STRUCTURE	SANITARY MH#13 RIM 642.43 8" PVC INV N 637.73 8" PVC INV SE 637.48 8" PVC INV SW 637.68 2' DIA RIM 4' DIA PRECAST STRUCTURE	STORM CB#15 RIM 643.38 12" INV E-W 631.58 2' DIA RIM 4' DIA PRECAST STRUCTURE
--	---	---	---	---	--	--	--	--	---	--	---	---	---

UTILITY PLAN GENERAL NOTES:

- THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND SURETY AS PART OF THIS WORK.
- THE CONTRACTOR SHALL CALL MISS DIG 3 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
- ALL STORM SEWER PIPE SHALL BE ADS N-12 PLASTIC PIPE UNLESS OTHERWISE SPECIFIED.
- ALL CATCH BASINS AND MANHOLES SHALL BE MINIMUM 4' DIAMETER PRECAST CONCRETE, UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL BED AND BACKFILL ALL UNDERGROUND PIPING WITH MDOT CL-2 SAND TO A MINIMUM OF 95% MAXIMUM DRY DENSITY PER ASTM - 1557.
- THE CONTRACTOR SHALL PIPE ALL BUILDING ROOF WATER TO THE STORM WATER DETENTION POND AS SHOWN AND SPECIFIED.
- THE CONTRACTOR SHALL REQUEST CONSTRUCTION STAKING BY FAX USING THE MOORE & BRUGGINK, INC. CONTRACTORS CONSTRUCTION STAKING REQUEST FORM. ONLY COMPLETED REQUESTS WILL BE SCHEDULED. NOTE THE PROJECT OWNER WILL PAY THE SURVEYOR TO PLACE STAKES ONLY ONCE. ALL LOST AND DAMAGED STAKES ARE THE CONTRACTORS RESPONSIBILITY.





BENCHMARKS - NAVD88 (GEIOD 18)
 ELEV = 644.95
 A RAILROAD SPIKE IN THE SOUTHEAST SIDE OF A UTILITY POLE LOCATED 30'± NORTH OF THE CENTERLINE OF RICH AVENUE & 1'± WEST OF THE WEST BACK OF CURB PECK STREET.

ELEV = 645.97
 TOP OF THE SOUTHWEST BOLT ON A HYDRANT FLANGE LOCATED 30'± NORTH OF THE CENTERLINE RICH AVENUE & 19'± WEST OF THE CENTERLINE MAPLE STREET.

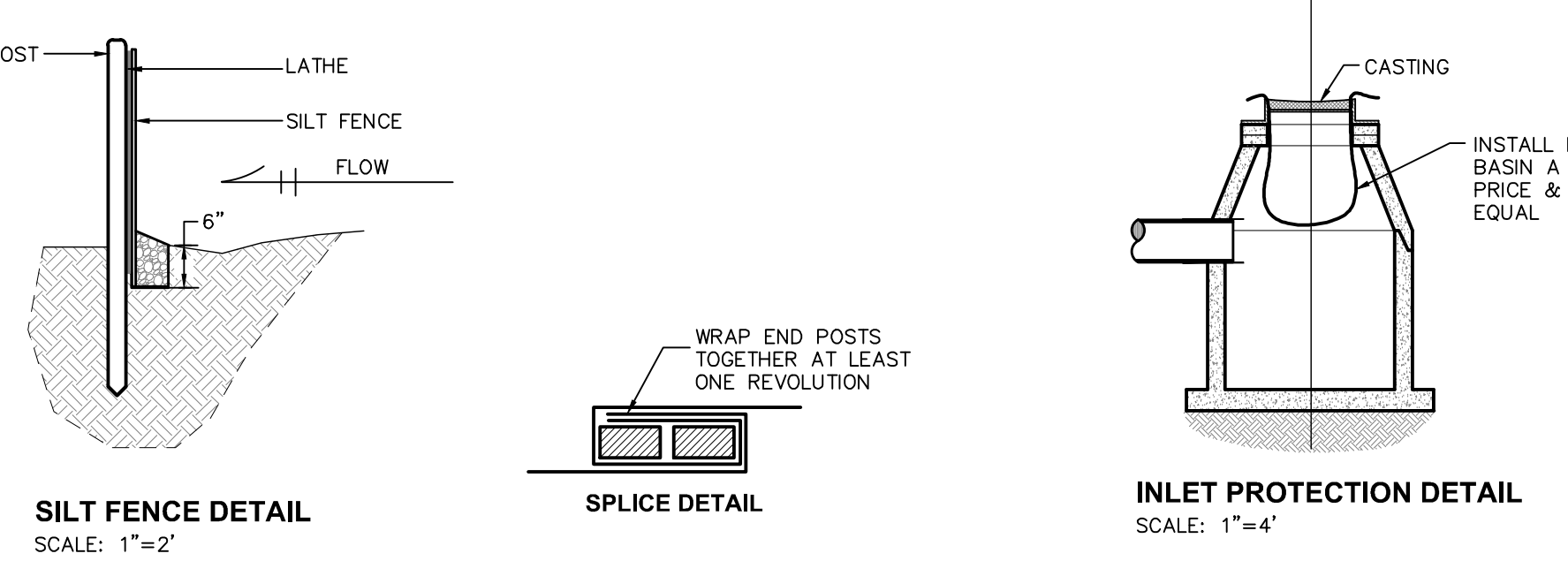
CONTROL POINTS - MI SOUTH SPCS NAD83

CP#1 M+8 RED CAP N 480259.5274 E 12682615.9510 ELEV 642.204	CP#2 M+8 RED CAP N 480317.1589 E 12682615.9410 ELEV 644.14
---	--

EXISTING UNDERGROUND UTILITY DATA

STORM CB#1 RIM 643.34 12" CONC INV S 638.44 12" CONC INV NE 639.44 BOTTOM STRUCTURE 635.39 2'x2' SQ RIM 4" DIA PRECAST STRUCTURE	STORM CB#6 RIM 643.51 12" CONC INV S 640.51 BOTTOM STRUCTURE 637.71 2'x2' SQ RIM 4" DIA PRECAST STRUCTURE	4" DIA PRECAST STRUCTURE STORM MH#11 RIM 644.17 12" CONC INV N 639.22 12" CONC INV E 639.22 12" CONC INV S 639.17 12" CONC INV W 639.37 BOTTOM STRUCTURE 639.07 2" DIA RIM 4" DIA PRECAST STRUCTURE
STORM CB#2 RIM 643.70 12" CONC INV SW 639.75 6" CPP INV NW 640.65 6" CPP INV SE 640.70 6" PVC INV NE 640.30 BOTTOM STRUCTURE 637.25 2'x2' SQ RIM 2" DIA PRECAST STRUCTURE	STORM MH#7 RIM 643.82 12" CONC INV N 640.27 12" CONC INV S 640.22 12" CONC INV E 640.07 BOTTOM STRUCTURE 639.92 2" DIA RIM 4" DIA PRECAST STRUCTURE	STORM MH#12 RIM 643.29 12" CONC INV W 639.05 12" CONC INV E 639.05 BOTTOM STRUCTURE 638.75 2" DIA RIM 4" DIA PRECAST STRUCTURE
STORM CB#3 RIM 641.00 6" PVC INV ESE 638.10 6" PVC INV NNW 638.10 12" CONC INV S 636.65 12" CONC INV N 636.50 BOTTOM STRUCTURE 634.90 2'x3' REC RIM 4" DIA CONC BLOCK STRUCTURE	STORM CB#8 RIM 643.67 12" CONC INV N 640.27 BOTTOM STRUCTURE 638.52 2'x2' SQ RIM 2" DIA PRECAST STRUCTURE	SANITARY MH#13 RIM 642.43 8" PVC INV N 637.73 8" PVC INV SE 637.48 8" PVC INV SW 637.68 2" DIA RIM 4" DIA PRECAST STRUCTURE
STORM CB#4 RIM 640.57 6" PVC INV NNW 638.57 BOTTOM STRUCTURE 636.47 2'x2' SQ RIM 2" DIA PRECAST STRUCTURE DEBRIS	STORM MH#9 RIM 644.29 12" CONC INV NW 639.59 12" CONC INV NE 639.79 12" CONC INV S 639.49 BOTTOM STRUCTURE 639.29 2" DIA RIM 4" DIA PRECAST STRUCTURE	STORM CB#14 RIM 643.13 12" CONC INV NW 640.13 12" CONC INV ESE 639.63 BOTTOM STRUCTURE 637.23 2'x2' SQ RIM 4" DIA PRECAST STRUCTURE
SANITARY MH#5 RIM 644.39 8" PVC INV E 638.49 6" PVC INV NW 638.69 6" PVC INV SW 638.69 2" DIA RIM 4" DIA PRECAST STRUCTURE	SANITARY MH#10 RIM 644.34 8" PVC INV N 637.34 8" PVC INV E 637.44 8" PVC INV S 637.24 8" PVC INV W 637.44 2" DIA RIM	SANITARY MH#15 RIM 639.38 12" INV E-W 631.58 2" DIA RIM 4" DIA PRECAST STRUCTURE

- SOIL EROSION CONTROL NOTES:**
- THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND SURETY AS PART OF THIS WORK.
 - THE CONTRACTOR SHALL CALL MISS DIG 3 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
 - THE CONTRACTOR SHALL REQUEST CONSTRUCTION STAKING BY EMAIL USING THE MOORE & BRUDNICK, INC. CONTRACTORS CONSTRUCTION STAKING REQUEST FORM. ONLY COMPLETED REQUESTS WILL BE SCHEDULED. NOTE THE PROJECT OWNER WILL PAY THE SURVEYOR TO PLACE STAKES ONLY ONCE. ALL LOST AND DAMAGED STAKES ARE THE CONTRACTORS RESPONSIBILITY.
 - THE CONTRACTOR SHALL REMOVE ALL CONCRETE, BIT PAVEMENT, STORM SEWER STRUCTURES, STORM SEWER PIPE, LIGHT POLES, FENCING, UNDERGROUND ELECTRIC, VEGETATION AND SO ON TO PREPARE THE SITE FOR IMPROVEMENTS, CASTINGS, VALVE BOXES AND/OR OTHER UTILITY STRUCTURES TO REMAIN SHALL BE ADJUSTED AND PROTECTED FROM DAMAGE.
 - NORTH AMERICAN GREEN DS-150 EROSION CONTROL BLANKET SHALL BE PLACED ON ALL SLOPES 1:3 OR GREATER. SECURE BLANKET TO SLOPE PER MANUFACTURERS SPECIFICATIONS.
 - ALL SILT FENCING SHALL BE TRENCHED IN PRIOR TO COMMENCEMENT OF EARTHWORK ACTIVITIES.
 - SILT FENCING IS REQUIRED ALONG ALL DOWNSTREAM EDGES OF THE GRADING LIMITS AND MUST REMAIN IN PLACE UNTIL VEGETATION IS UNIFORMLY RE-ESTABLISHED.
 - ALL SOIL EROSION CONTROL MEASURES SHALL COMPLY WITH THE ACT 451 OF PUBLIC ACTS OF 1997, SOIL EROSION AND SEDIMENTATION CONTROL, NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION ACT.
 - NEW & EXISTING STORM SEWER INLET POINTS SHALL BE PROTECTED FROM SEDIMENT INFILTRATION WITH INLET FABRIC DROP (SILT SACK) PER APPROVED MANUFACTURERS (H-FLOW AND/OR ACF BRANDS). CONTRACTOR SHALL PROVIDE PRODUCT INFORMATION TO THE CITY PRIOR TO INSTALLATION.
 - ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED ON A DAILY BASIS, AND IMMEDIATELY FOLLOWING EVERY SIGNIFICANT RAINFALL EVENT.
 - ALL EXCESS SOILS ARE TO BE REMOVED FROM THE SITE. OTHERWISE STOCKPILES MUST BE PROVIDED WITH TEMPORARY AND PERMANENT STABILIZATION MEASURES.
 - IF EXCESS DIRT IS TO BE PLACED ON SITE, THE LOCATION SHALL BE APPROVED BY THE PROPERTY OWNER & ENGINEER.
 - ALL TEMPORARY EROSION CONTROLS MUST REMAIN IN PLACE UNTIL VEGETATION IS UNIFORMLY RE-ESTABLISHED.
 - DUST CONTROL SHALL BE PROVIDED BY MEANS OF WATER DISTRIBUTION ON A REGULAR BASIS OVER AREAS THAT COULD POTENTIALLY PRODUCE DUST CONDITIONS.
 - A TRACKING PAD MUST BE PROVIDED AT CONSTRUCTION ACCESS POINTS TO PREVENT SOILS FROM BEING TRACKED OFF-SITE, PER DETAIL THIS SHEET.
 - CONTRACTOR SHALL SWEEP PAVED AREAS EACH DAY (OR MORE AS NEEDED) BY MECHANICAL MEANS FOR ALL PAVED AREAS IN AND AROUND THE PERIMETER OF THE PROJECT AFFECTED BY TRUCKING OPERATIONS.
 - ALL DISTURBED AREAS SHALL BE RESTORED WITH 4" TOPSOIL (MIN), SEED, FERTILIZER AND MULCH UNLESS OTHERWISE NOTED.
 - CONSTRUCTION ENTRANCE SHALL BE PROVIDED FROM PECK STREET.
 - EXISTING SOIL CONDITIONS: LOAMY SAND FROM USDA SOIL SURVEY



HOOGLAND PARK IMPROVEMENTS
 ZEELAND, MICHIGAN

MCSA GROUP, INC.
 Landscape Architecture • Park & Recreation Planning • Architecture
 Downtown Planning • Interior Design • Sports Facility Planning
 529 Greenwood Avenue S.E. • East Grand Rapids, MI 49508
 616-451-3346 • FAX: 616-451-1335 • EMAIL: info@mcsagroup.com

SCALE:
 1" = 10'

GRADING PLAN

NORTH

SCALE: 1" = 10'

PROGRESS MEETING

DATE	PROJECT NO.
REVISIONS	240245.01
	SHEET NO.
	L6

STRUCTURAL NOTES

GENERAL

- CONSTRUCTION SHALL COMPLY WITH MICHIGAN BUILDING CODE [MBC] 2015 AND ALL OTHER APPLICABLE LOCAL CODES.
- OSHA, AND OTHER APPLICABLE SAFETY CODE REQUIREMENTS ARE DETERMINED AND PROVIDED BY OTHERS. CLASSIC ENGINEERING IS NOT RESPONSIBLE FOR JOBSITE SAFETY.
- THE STRUCTURAL DRAWINGS ARE FOR THE PLACEMENT AND SIZE OF STRUCTURAL COMPONENTS ONLY. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER IT IS FULLY COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCES, AND TO ENSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF TEMPORARY BRACING, GUYS OR TIE DOWNS, AND BRACING EXCAVATIONS TO PREVENT CAVE IN. SUCH MATERIAL SHALL REMAIN THE CONTRACTORS PROPERTY AFTER COMPLETION OF THE PROJECT.
- USE OF ENGINEERING DRAWINGS AS ERECTION DRAWINGS BY THE CONTRACTOR IS STRICTLY PROHIBITED.
- DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR SIMILAR CONDITIONS. ANY UNCLEAR CONDITIONS SHALL BE VERIFIED WITH ENGINEER PRIOR TO CONSTRUCTION OF THAT AREA.
- IF ANY NOTE CONFLICTS WITH ANY DETAIL OR NOTE ON THE PLANS OR IN THE STRUCTURAL NOTES, THE STRICTEST PROVISION SHALL GOVERN.
- DRAWINGS ARE NOT TO BE SCALED. ANY UNCLEAR DIMENSIONS OR DIMENSIONAL DISCREPANCIES BETWEEN DISCIPLINES SHALL BE VERIFIED WITH ARCHITECT.
- ADDITIONS OF OPENINGS, PENETRATIONS OR EMBEDMENTS IN THE FIELD SHALL BE APPROVED BY THE CLASSIC ENGINEERING PRIOR TO FABRICATION.

FOUNDATIONS

- FOOTINGS ARE DESIGNED TO BEAR ON SOIL OR ENGINEERED FILL ASSUMING AN ALLOWABLE BEARING CAPACITY OF 2000 PSF. IF MATERIAL OF THIS CAPACITY IS NOT CONFIRMED AT THE ELEVATIONS INDICATED, THE FOOTINGS SHALL BE LOWERED OR ENLARGED. NOTIFY AND CONSULT ENGINEER FOR ADJUSTMENTS. SEE GEOTECHNICAL REPORT, IF AVAILABLE, FOR ADDITIONAL FOUNDATION CONSIDERATIONS.
- ALL FILL UNDER SLABS AND ADJACENT TO WALLS SHALL BE CLEAN GRANULAR SOIL COMPACTED TO A MINIMUM OF 95% MODIFIED PROCTOR. SEE GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS.
- EXERCISE CARE WHEN BACKFILLING WALLS. EXCEPT FOR WALLS WITH EQUAL FILL ON BOTH SIDES, NO BACKFILLING OF WALLS SHALL BE DONE UNTIL THE WALL HAS ATTAINED ITS FULL STRENGTH AND HAS BEEN PROPERLY SUPPORTED BY BRACING OR BY A COMPLETED FLOOR OR ROOF STRUCTURE. ALTERNATE FILL WHEN BACKFILLING WALLS WITH FILL ON BOTH SIDES.
- COORDINATE FOUNDATION WORK WITH UNDERGROUND WORK BY MECHANICAL, PLUMBING AND ELECTRICAL CONTRACTORS, IF ANY.
- CONTRACTOR SHALL PROVIDE FOUNDATION DRAINS WITH APPROPRIATE FILTER MATERIAL AS RECOMMENDED BY SOLS REPORT.

CONCRETE

- CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH AS FOLLOWS:
3500 PSI FOUNDATIONS [WALLS, FOOTINGS]
4000 PSI SLABS ON GRADE
- ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615. MAIN BARS TO BE GRADE 60. TIES AND STIRRUPS TO BE GRADE 40. WELDED WIRE MESH SHALL CONFORM TO ASTM A1064.
- ALL ANCHOR RODS SHALL CONFORM TO ASTM F1554, GRADE 36.
- MATERIAL AND WORKMANSHIP FOR ALL CONCRETE AND REINFORCING SHALL BE IN ACCORDANCE WITH THE ACI MANUAL OF STANDARD PRACTICE AND THE ACI BUILDING CODE REQUIREMENTS.
- PROVIDE ENTRAINED AIR IN ALL EXPOSED EXTERIOR CONCRETE.
- OTHER CONCRETE ADMIXTURES MAY BE USED AS NECESSARY, INCLUDING THE USE OF A PLASTICIZER TO IMPROVE WORKABILITY. HOWEVER, EXTRA WATER SHALL NOT BE ADDED BEYOND THAT WHICH IS REQUIRED FOR PROPER HYDRATION OF THE MIX DESIGN BEING USED.
- FOR REINFORCING SPLICES, UNLESS OTHERWISE INDICATED, MAINTAIN A MINIMUM BAR LAP OF 30 BAR DIAMETERS AND A MINIMUM LAP OF 8" FOR WIRE MESH.
- PROVIDE CORNER BARS TO MATCH ALL HORIZONTAL REINFORCING IN WALLS AND FOOTINGS. PROVIDE DOWELS AS REQUIRED TO MATCH VERTICAL WALL AND PIER REINFORCING. THIS INCLUDES DOWELS TO MATCH REINFORCED MASONRY WALLS ABOVE.
- APPROPRIATE CURING MEASURES SHALL BE TAKEN FOR NEW CONCRETE. A MOIST CURE METHOD OR A CURING COMPOUND SHALL BE USED. COMMENCEMENT OF CURING OR APPLICATION OF A COMPOUND SHALL BE DONE IMMEDIATELY AFTER FINISHING OR REMOVING FORM WORK. THE CURING COMPOUND SHALL BE COMPATIBLE WITH FLOOR COVERINGS OR MANUFACTURERS INSTRUCTIONS.
- APPROPRIATE PROCEDURES FOR COLD OR WARM WEATHER CONCRETE WORK SHALL BE FOLLOWED, AS NECESSARY, IN ACCORDANCE WITH ACI SPECIFICATIONS.
- VERIFY AND COORDINATE ALL SLEEVES, OPENINGS, EMBEDDED ITEMS, ETC., AS NECESSARY, WITH THE APPLICABLE TRADE THAT MAY REQUIRE THEM.
- SLABS ON GRADE SHALL HAVE CONSTRUCTION OR CONTRACTION JOINTS AT A MAXIMUM SPACING OF 10'-0" ON CENTER EACH WAY FOR 4" SLABS. MAINTAIN AN ASPECT RATIO OF LENGTH TO WIDTH OF NO MORE THAN 1.5.

CONCRETE MASONRY

- HOLLOW LOAD BEARING MASONRY UNITS SHALL CONFORM TO ASTM C90.
- MORTAR FOR MASONRY SHALL CONFORM TO ASTM C270, TYPE M OR S. MINIMUM COMPRESSIVE STRENGTH OF BLOCK SHALL BE $f_m = 2000$ PSI.
- ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.
- PROVIDE SOLID MASONRY OR FILL CORE OF BLOCKS WITH GROUT A MINIMUM OF 3 COURSES UNDER ALL BEAM AND LINTEL BEARING POINTS. GROUT CORES FULL HEIGHT WHERE REINFORCING IS REQUIRED AT THE BEARING POINTS UNLESS NOTED OTHERWISE.
- REINFORCED MASONRY CORES SHALL BE FILLED WITH GROUT IN LIFTS OF 48" MAXIMUM. GROUT SHALL BE PUDDLED OR VIBRATED IN PLACE.
- MASONRY REINFORCING MUST BE CONTINUOUS, MAINTAIN MINIMUM LAP SPLICE OF 30" FOR #5 BARS & 38" FOR #6 BARS. SUPPORT REINFORCING VERTICALLY AT A DISTANCE NOT EXCEEDING 192 BAR DIAMETERS AND MAINTAIN 1/2" MINIMUM CLEARANCE BETWEEN THE STEEL AND MASONRY.
- GROUT FOR REINFORCED CORES AND BOND BEAMS SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF $f'_g = 3000$ PSI.
- PROVIDE #4 BARS, VERTICAL AT ALL CORNERS, WITHIN 16" ON EACH SIDE OF OPENINGS, WITHIN 8" ON EACH SIDE OF CONTROL JOINTS, AND WITHIN 8" OF THE ENDS OF WALLS. PROVIDE #4 HORIZONTAL REINFORCEMENT AT THE BOTTOM OF WALL OPENINGS, EXTENDING A MINIMUM OF 24" BEYOND THE OPENING.
- HORIZONTAL REINFORCEMENT SHALL BE A MINIMUM OF TWO WIRES OF W1.7 AT 16" MAXIMUM VERTICAL.
- FOLLOW COLD/HOT WEATHER CONSTRUCTION GUIDELINES PER ACI 530.1, 1.8C & 1.8D.

STRUCTURAL STEEL

- STEEL DESIGN, FABRICATION AND ERECTION TO BE IN ACCORDANCE WITH AISC 360-16, SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS.
- STRUCTURAL STEEL ANGLES AND PLATE SHALL CONFORM TO ASTM A36. WIDE FLANGES SHALL CONFORM TO ASTM A992 GRADE 50.
- ALL LINTELS SHALL BE G-90 GALVANIZED IN ACCORDANCE WITH ASTM A123.

STRUCTURAL WOOD FRAMING

- TRUSSES AND ALL GLULAM COMPONENTS SHALL BE DESIGNED FOR THE DESIGN LOADS INDICATED, APPROVED BY A REGISTERED PROFESSIONAL ENGINEER. SEALED SHOP DRAWINGS SHALL BE SUBMITTED TO CLASSIC ENGINEERING FOR REVIEW. DEFLECTIONS SHALL BE LIMITED TO $[L/240]$ FOR ROOF LIVE LOAD, $[L/180]$ FOR ROOF DEAD + LIVE LOAD
- TRUSS MANUFACTURER SHALL PROVIDE ERECTION DRAWINGS INDICATING ALL BRIDGING AND BRACING REQUIRED BY DESIGN.
- WOOD TRUSSES AND/OR OTHER STRUCTURAL FRAMING MEMBERS ARE SHOWN AS A GENERAL LAYOUT ONLY AND EXACT PLACEMENT SHALL BE VERIFIED IN THE FIELD. HOWEVER, FRAMING PLACEMENT SHALL NOT EXCEED THE SPACING SHOWN ON THE DRAWINGS. WOOD TRUSS PLACEMENT SHALL ALSO BE COORDINATED WITH THE TRUSS ERECTION DRAWINGS.
- ALL ROOF SHEATHING SHALL BE MIN. 23/32" APA RATED 48/24 SHEATHING, EXPOSURE 1.
- ROOF SHEATHING SHALL BE INSTALLED CONTINUOUS OVER TWO OR MORE SPANS WITH STRENGTH AXIS PERPENDICULAR TO SUPPORTS. SHEATHING SHALL BE NAILED WITH 10d COMMON NAILS AT 6" O.C. AT PANEL EDGES & INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE. ALTERNATELY, BLOCK ALL PANEL EDGES AND NAIL AT 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. ALLOW 1/8" GAP AT PANEL EDGES AND ENDS.
- ROOF TRUSS TIES INDICATED ON PLANS ARE AN ESTIMATED MINIMUM REQUIREMENT. TRUSSES AND GIRDER TRUSSES MAY REQUIRE ADDITIONAL TIES BASED ON UPLIFT REACTIONS PROVIDED IN TRUSS SUBMITTAL.
- PROVIDE TEMPORARY AND PERMANENT BRACING OF ROOF TRUSSES PER BCSI (BUILDING COMPONENTS SAFETY INFORMATION) PUBLISHED BY THE WOOD TRUSS COUNCIL OF AMERICA & TRUSS PLATE INSTITUTE.

DESIGN CODES

GENERAL - MICHIGAN BUILDING CODE 2015
WOOD - NATIONAL DESIGN SPECIFICATION 2015
MASONRY - ACI 530-13
CONCRETE - ACI 318-14

DESIGN CRITERIA

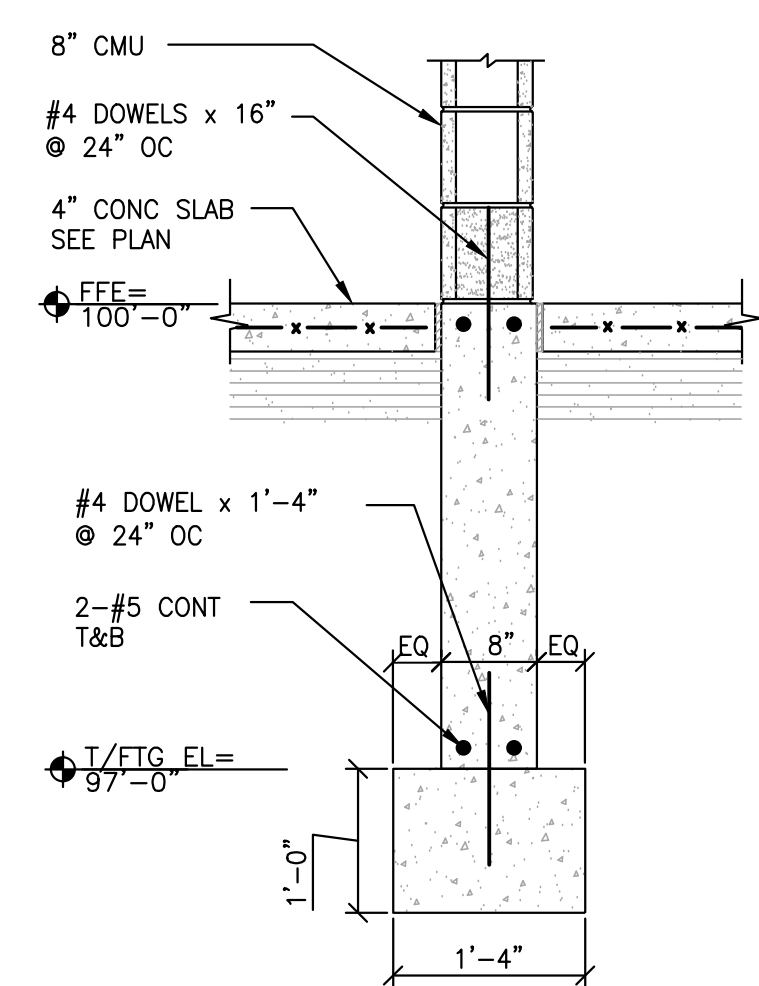
RISK CATEGORY II BUILDING

ROOF LOADS
EXPOSURE B, PARTIAL EXPOSURE
GROUND SNOW LOAD, $P_g = 50$ PSF
IMPORTANCE FACTOR, $I_s = 1.0$
EXPOSURE FACTOR, $C_e = 1.0$
THERMAL FACTOR, $C_t = 1.2$
SLOPE FACTOR, $C_s = 1.0$
BALANCED ROOF SNOW LOAD = 42 PSF
TOP CHORD DEAD LOAD = 5 PSF
BOTTOM CHORD DEAD LOAD = 10 PSF

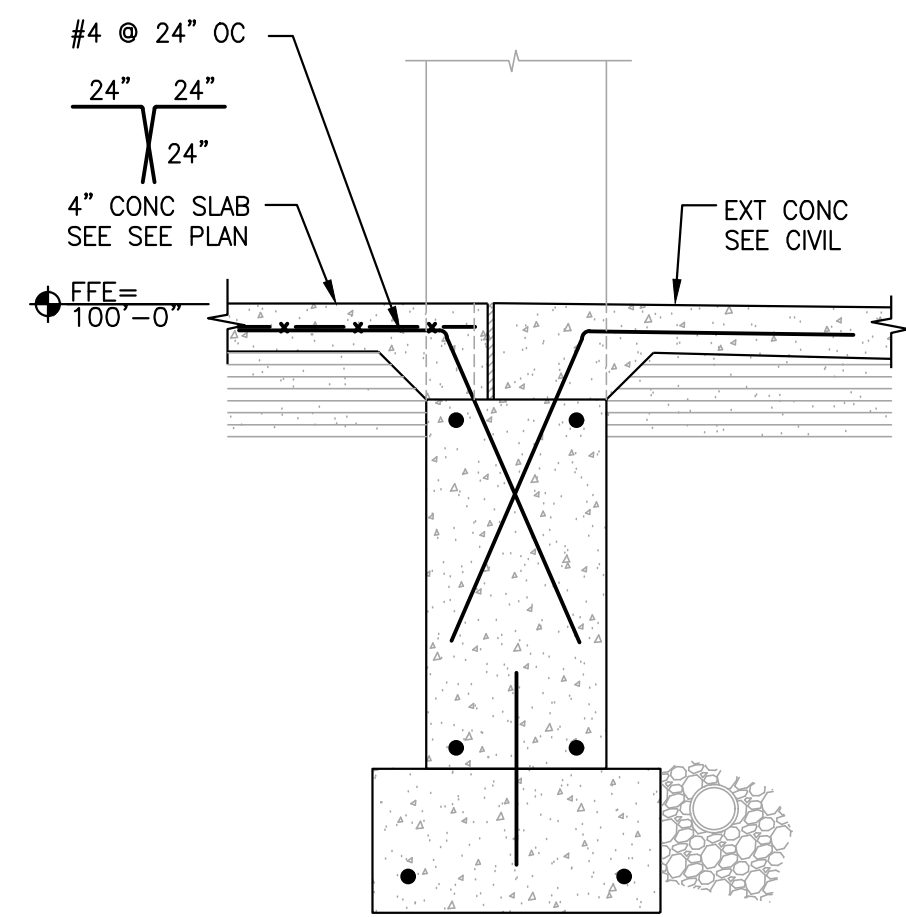
WIND LOADS
ULTIMATE DESIGN WIND SPEED, $V_{ult} = 115$ MPH
NOMINAL DESIGN WIND SPEED, $V_{nd} = 89$ MPH
EXPOSURE CATEGORY C
IMPORTANCE FACTOR, $I_w = 1.0$
INTERNAL PRESSURE COEFFICIENT, $G_{cp} = +/-0.18$

SEISMIC LOADS
IMPORTANCE FACTOR, $I_e = 1.0$
SITE CLASS D
MAPPED SHORT PERIOD SPECTRAL RESPONSE ACCELERATION, $S_s = 0.073g$
MAPPED 1-SECOND SPECTRAL RESPONSE ACCELERATION, $S_1 = 0.045g$
SHORT PERIOD SPECTRAL DESIGN ACCELERATION, $S_{m0.075g}$
1.0 SEC. SPECTRAL DESIGN ACCELERATION, $S_{m0.072g}$
SEISMIC DESIGN CATEGORY B
RESPONSE MODIFICATION FACTOR, $R = 3.5$
SEISMIC RESPONSE COEFFICIENT, $C_s = 0.023$
DESIGN BASE SHEARS [UNFACTORED] $V = 0.023W$
ANALYSIS PROCEDURE - EQUIVALENT LATERAL FORCE

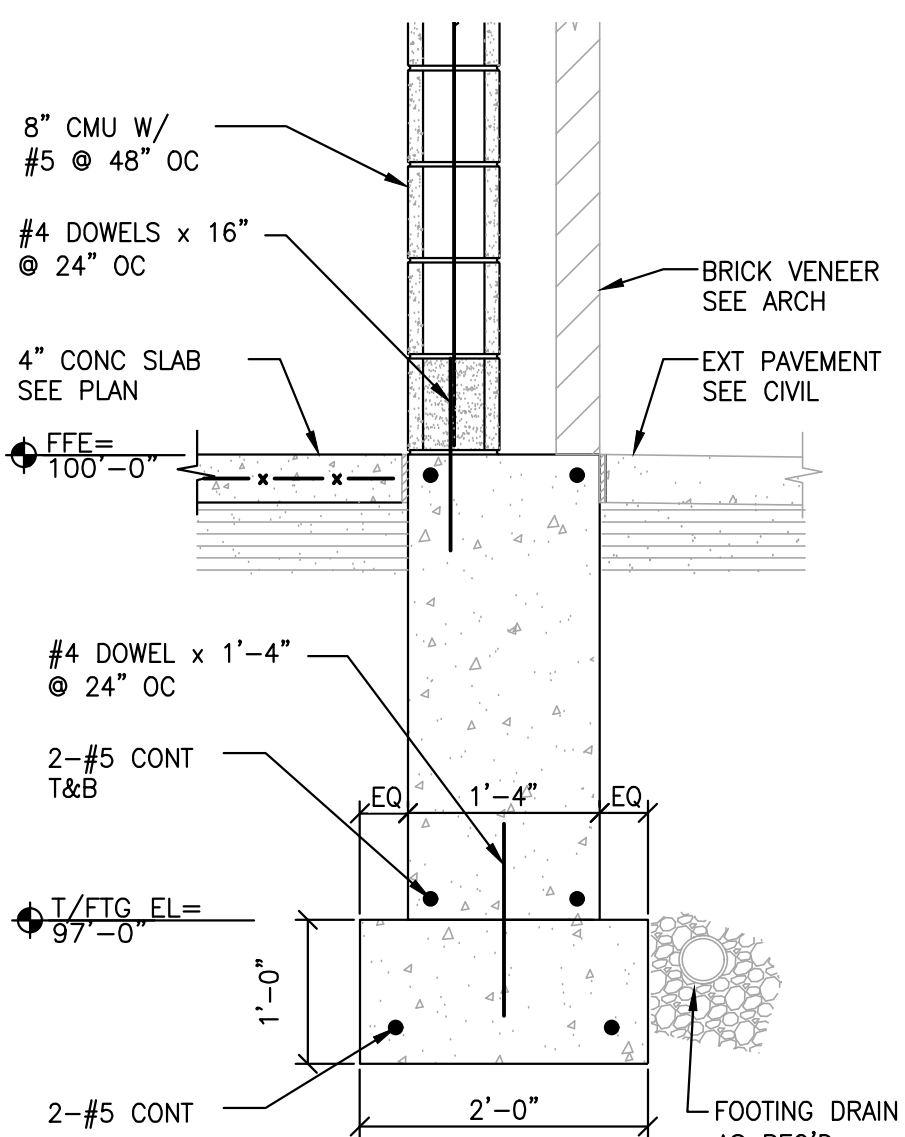
LATERAL FORCE RESISTING SYSTEM: INTERMEDIATE REINFORCED MASONRY SHEAR WALLS



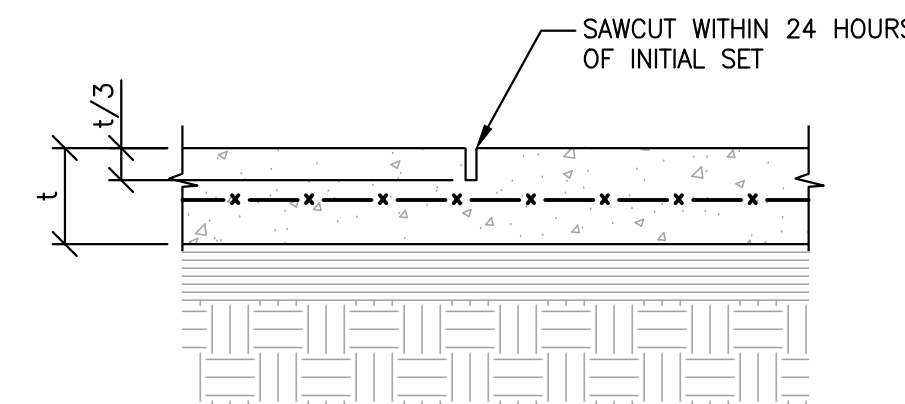
SECTION 3
SCALE: 3/4" = 1'-0"



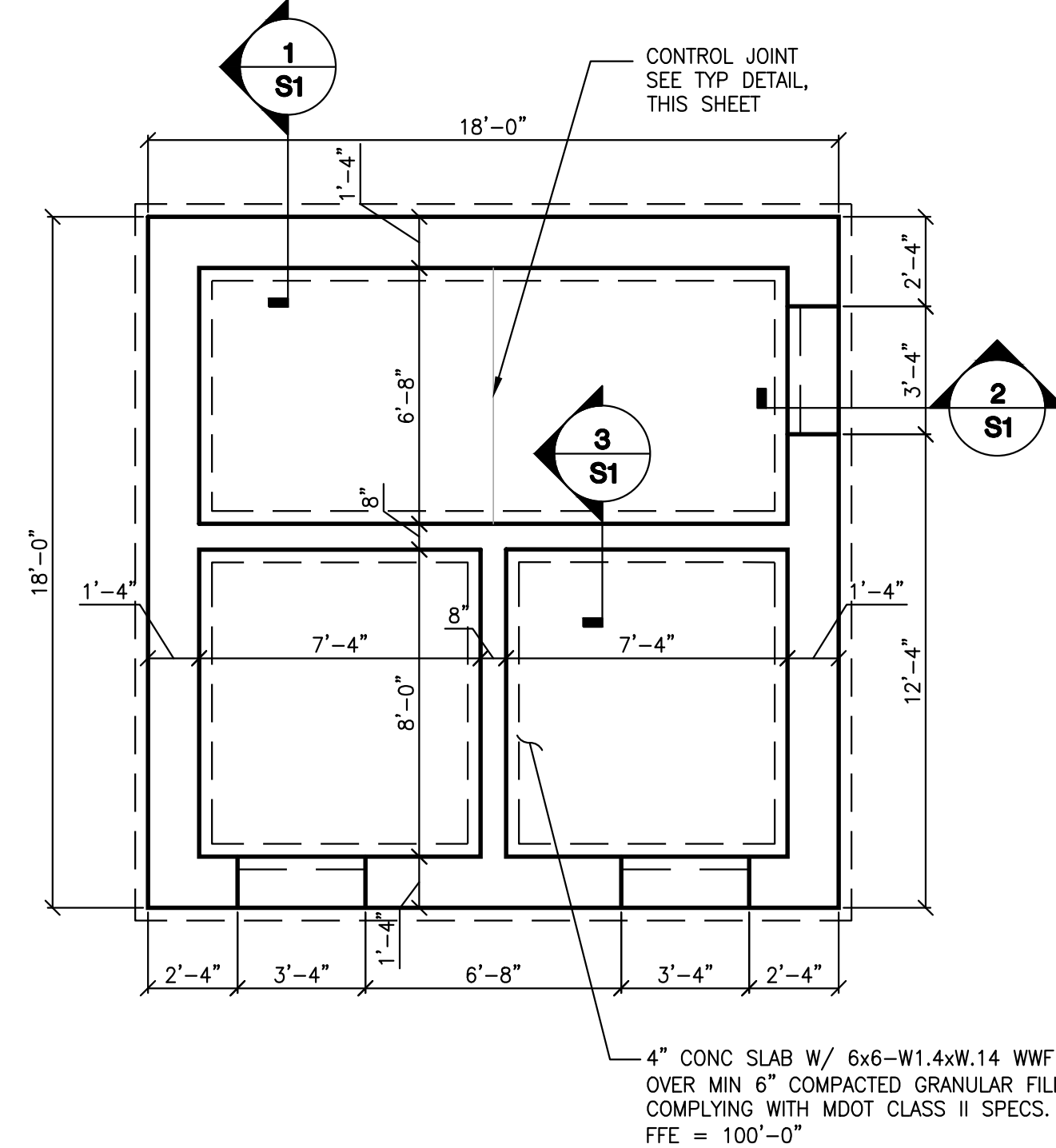
SECTION 2
SCALE: 3/4" = 1'-0"



SECTION 1
SCALE: 3/4" = 1'-0"

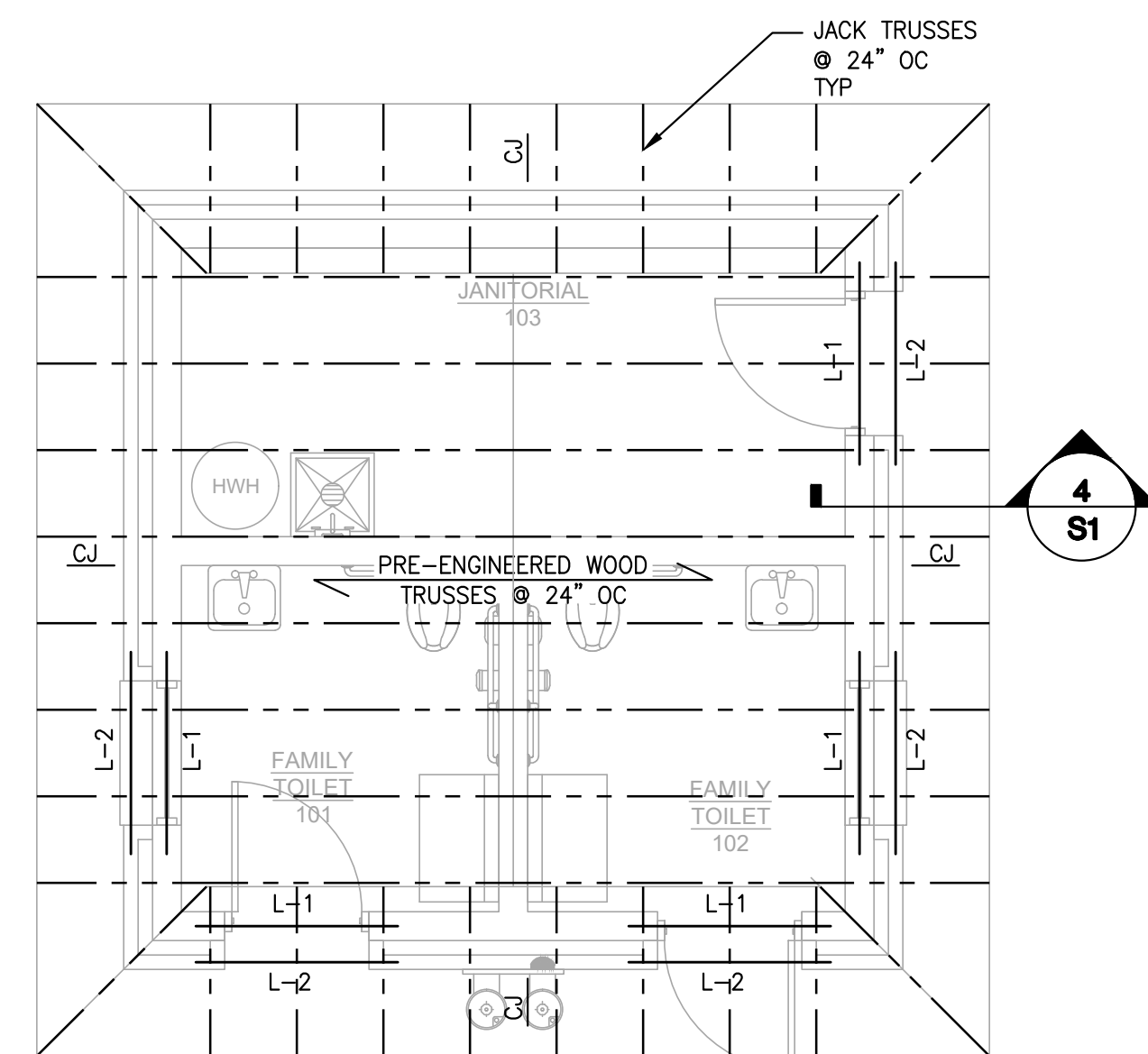


TYP CONTROL JOINT DETAIL
SCALE: NOT TO SCALE



FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

FOUNDATION NOTES:
1- TOP OF WALL ELEVATION = 100'-0" UNO
TOP OF WALL ELEVATION = 99'-4" @ DOORS
TOP OF FOOTING ELEVATION = 97'-0"



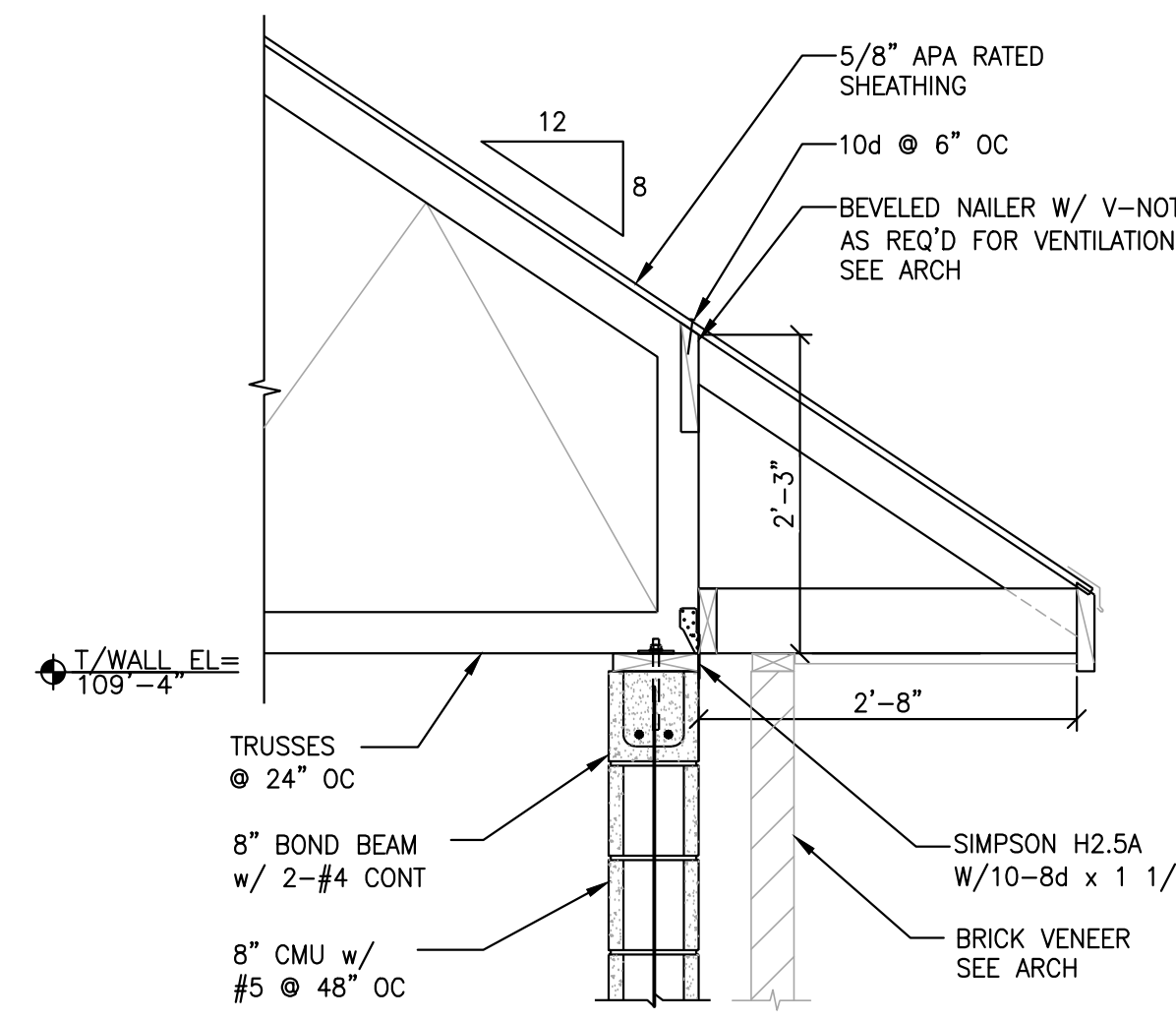
FRAMING PLAN
SCALE: 1/4" = 1'-0"

FRAMING NOTES:
1- MASONRY WALL REINFORCEMENT SHALL BE #5 @ 48" OC UNO.
2- CJ DENOTES CMU CONTROL JOINT. SEE TYP DETAIL, THIS SHEET.

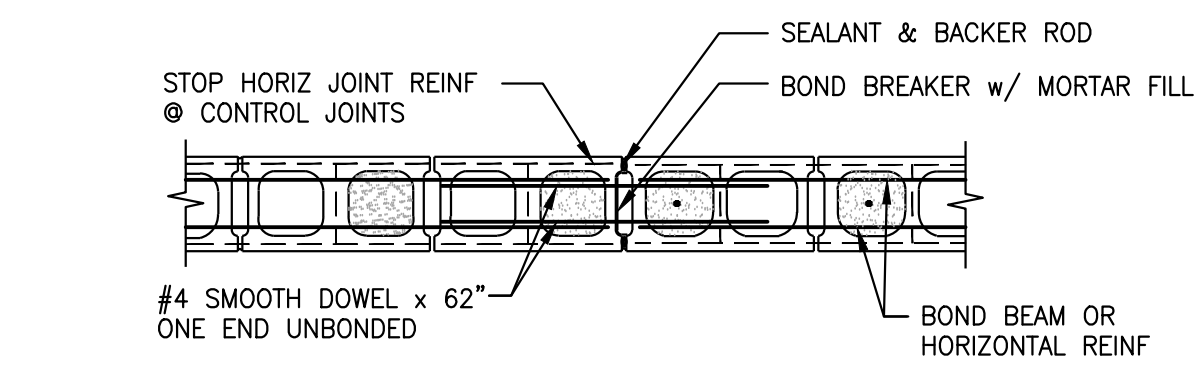
LINTEL SCHEDULE 1		
MARK	SIZE	BEARING LENGTH
L-1	8" BOND BEAM w/ 2-#4 BOTTOM	8"
L-2	L5x3 1/2x5/16 LLV W/L4x4x1/4 CLOSURE ANGLE	8"

FASTENER SCHEDULE		
DESIGNATION	TYPE	DIMENSIONS
8d	COMMON NAIL	0.131"Ø x 2 1/2" LONG
10d	COMMON NAIL	0.148"Ø x 3" LONG
16d	COMMON NAIL	0.162"Ø x 3 1/2" LONG

REQUIRED VERIFICATION & INSPECTIONS [MBC 2015 CHAPTER 17]					
SYSTEM or MATERIAL	FREQUENCY		INSPECTION CODE OF STANDARD REFERENCE	MBC REFERENCE	REMARKS
	CONTINUOUS	PERIODIC			
SOILS, MBC 1705.6/ TABLE 1705.6					
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.		X			SEE GEOTECHNICAL REPORT IF AVAILABLE
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH & HAVE REACHED PROPER MATERIAL.		X			SEE GEOTECHNICAL REPORT IF AVAILABLE
PERFORM CLASSIFICATION & TESTING OF COMPACTED FILL MATERIALS.		X			SEE GEOTECHNICAL REPORT IF AVAILABLE
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT & COMPACTION OF COMPACTED FILL.		X			SEE GEOTECHNICAL REPORT IF AVAILABLE
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS. PERFORM SLUMP AND AIR CONTENT TESTS AND DETERMINE THE TEMPERATURE OF THE CONCRETE.		X	ASTM C172, ASTM C31, ACI 318-26.4.26.12		
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE & TECHNIQUES.		X	ACI 318: 26.5.3-26.5.5		
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.		X	ACI 318: 26.11.1.2b		
CONCRETE, MBC 1705.3/ MBC TABLE 1705.3					
INSPECT REINFORCEMENT AND VERIFY PLACEMENT.		X	ACI 318 CHAPTER 10, 25.2, 25.3, 26.6.1-26.6.3		
VERIFY USE OF REQUIRED DESIGN MIX.		X	ACI 318, CHAPTER 19, 26.4.3-26.4.4	1904.1, 1904.2	
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS. PERFORM SLUMP AND AIR CONTENT TESTS AND DETERMINE THE TEMPERATURE OF THE CONCRETE.		X	ASTM C172, ASTM C31, ACI 318-26.4.26.12		
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE & TECHNIQUES.		X	ACI 318: 26.5.3-26.5.5		
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.		X	ACI 318: 26.11.1.2b		
MASONRY CONSTRUCTION, MBC 1705.2					
MASONRY - LEVEL B		X	TMS 402/ACI 530 TABLE 3.1.3 TMS 602/ACI 530.1- TABLE 4	1705.4	MASONRY CONSTRUCTION SHALL BE INSPECTED AND VERIFIED IN COMPLIANCE WITH TMS 402-11/ ACI 530-11/ ASCE 5-11 AND TMS 602-11/ ACI 530-1-11/ ASCE 6 QUALITY ASSURANCE PROGRAMS.



SECTION 4
SCALE: 3/4" = 1'-0"



TYP CMU CONTROL JOINT DETAIL
SCALE: NOT TO SCALE

FAN SCHEDULE										
MARK	SERVICE	MODEL	CFM	S.P.	HP/WATTS/AMPS.	RPM	WHEEL DIA.	SONES	VOLTAGE	REMARKS
EF-1	SEE PLANS	A700-VG	350	.375"	4.1A	992	--	0.5	115/1/60	①

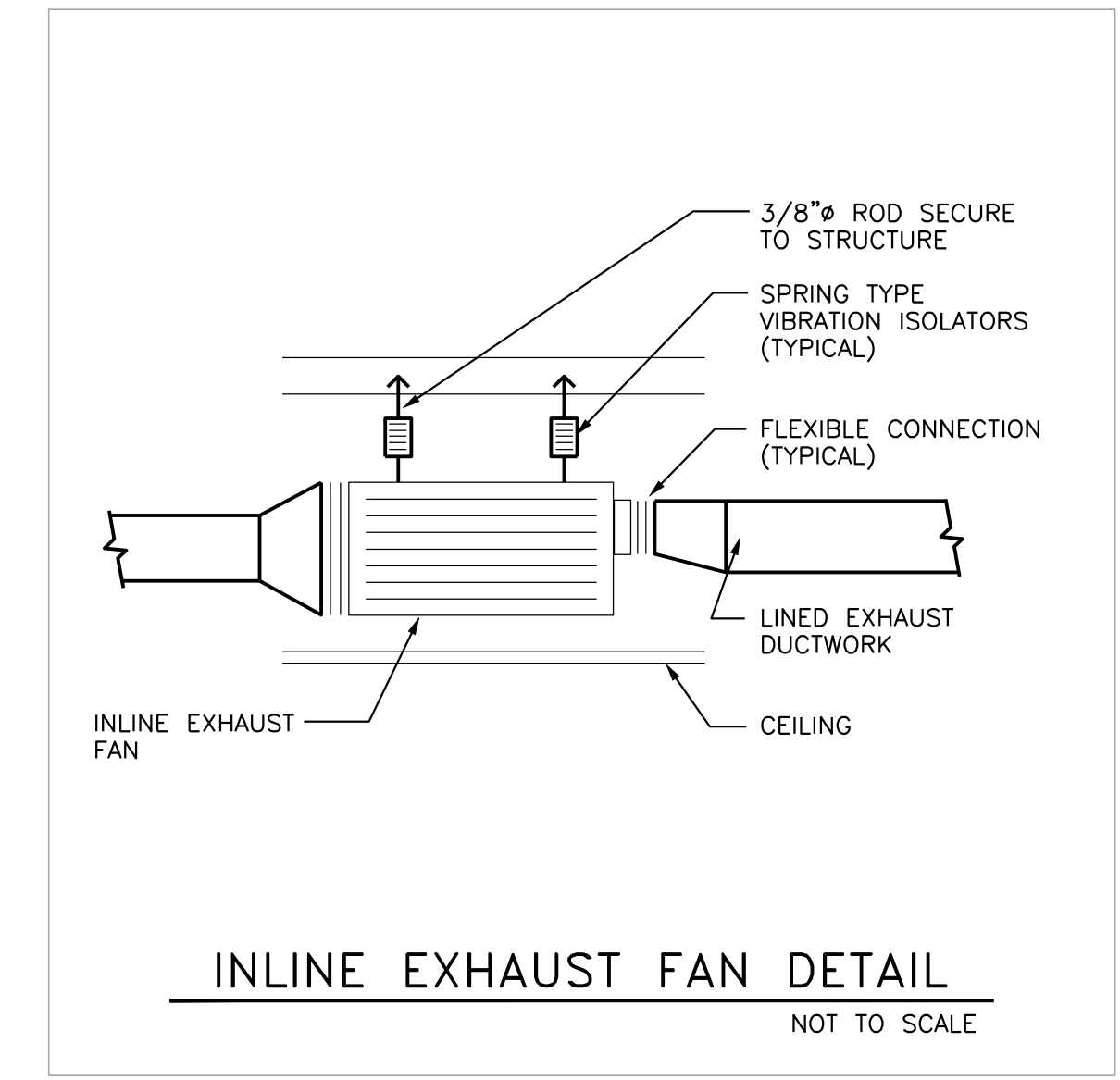
① BASED ON GREENHECK DIRECT DRIVE CABINET FAN, CONTROL BY E.C.

GRILLE, REGISTER AND DIFFUSER SCHEDULE					
MARK	SERVICE	MODEL	VOLUME DAMPER	FINISH	REMARKS
EG-1	EGGRATE EXHAUST REGISTER	80 - 12x12	YES	WHITE	①

① BASED ON PRICE

LOUVER SCHEDULE								
MARK	SERVICE	DIMENSIONS		CFM	FREE AREA SQ. FT.	S.P. IN W.G.	AIR VELOCITY FPM	REMARKS
		LENGTH	HEIGHT					
L-1	EXHAUST	18"	12"	350	.50	.10	700	② ①

① BASED ON HART & COOLEY MODEL I545ZF, EXTRUDED ALUMINUM CONSTRUCTION
 ② FLANGE FRAME WITH BIRD SCREEN



INLINE EXHAUST FAN DETAIL
NOT TO SCALE

PLUMBING FIXTURE LIST

WC-1 WALL HUNG, VITREOUS CHINA, SIPHON JET, ELONGATED BOWL, BOLT CAPS, 16 1/8" RIM HEIGHT, 1 1/2" TOP SPUD, KOHLER MODEL K-4325. PROVIDE WITH SLOAN FLUSH VALVE, 1.6 GPF, AND WHITE SOLID PLASTIC OPEN FRONT SEAT, LESS COVER, BEMIS 1955CT. PROVIDE WITH JAY R SMITH ADJUSTABLE FIXTURE SUPPORT.

L-1 WALL MOUNTED, VITREOUS CHINA, 20"x18", FRONT OVERFLOW, 4" BACK AND 4" CENTERS, KOHLER KINGSTON K-2005, WHITE FINISH. PROVIDE WITH METERING FAUCET, DELTAS MODEL B01153, ADA COMPLIANT TIP ACTION LEVER HANDLES. 0.5 GPM, TOTAL FLOW NOT TO EXCEED 0.25 GALLONS PER HANDLE ACTIVATION. 3/8" LOOSE KEY OPERATED ANGLE STOPS AND CHECK VALVES, PERFORATED DRAIN STRAINER, TRAP ASSEMBLY AND PROTECTIVE PIPE COVERS, CARRIER TO HAVE CONCEALED ARMS, LEVELING AND SECURING SCREWS. PROVIDE A TEMPERING VALVE AT ALL ACCESSIBLE HANDWASHING FIXTURES THAT CONFORMS TO ASSE 1070.

SS-1 FLOOR MOUNTED, PRECAST, ONE PIECE MOLDED STONE WITH BUMPER GUARD ON TWO SIDES, 24"x24"x10" MUSTEE 63M PROVIDE WITH WALL MOUNTED COMBINATION FITTING WITH INTEGRAL STOPS, VACUUM BREAKER, WALL BRACE, PAIL HOOK, MOP HANGER, HOSE AND HOSE BRACKET, CHICAGO FAUCET B97MPCF.

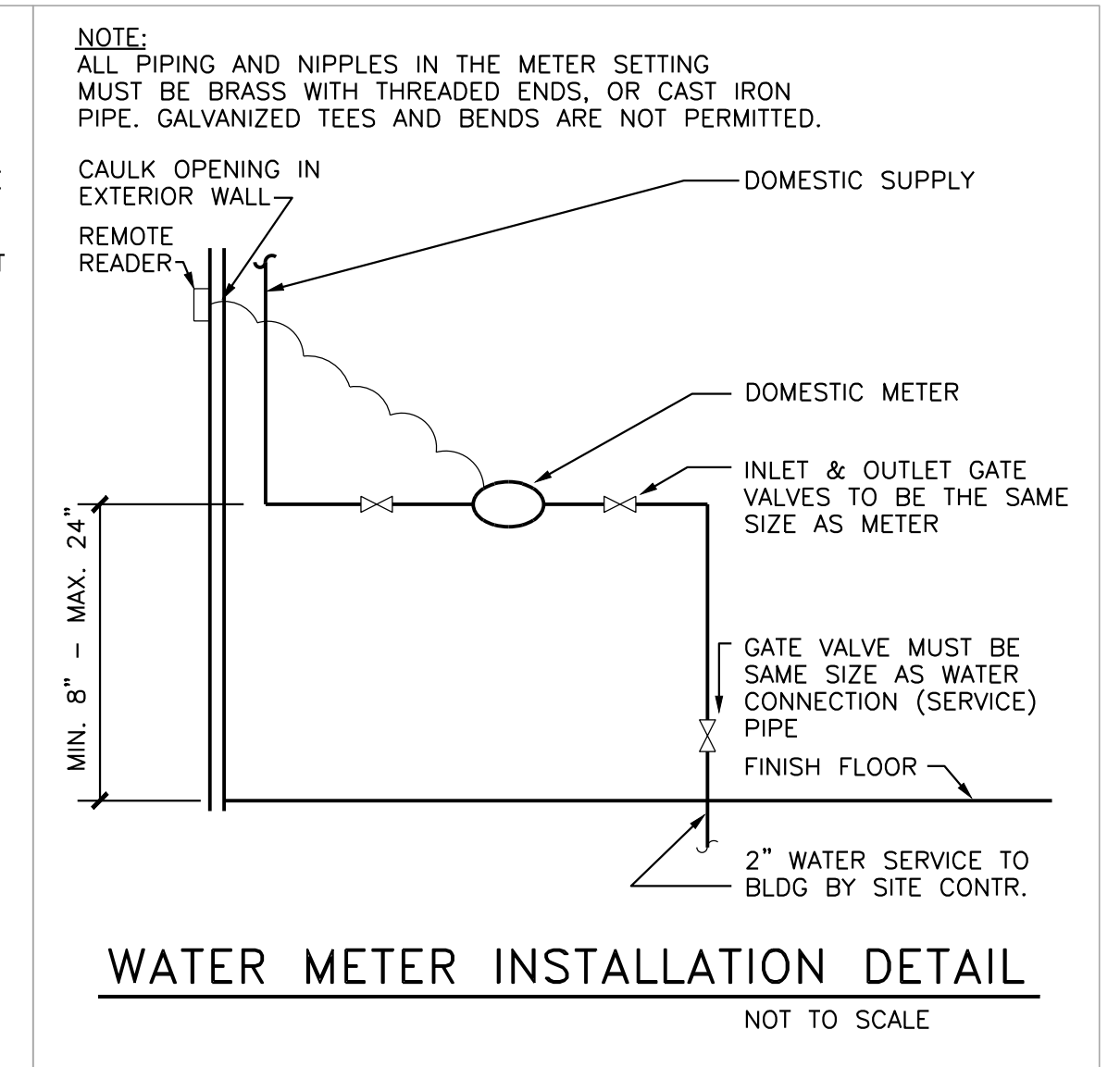
DF-1 WALL MOUNTED, BARRIER FREE, BI-LEVEL DRINKING FOUNTAIN WITH BOTTLE FILLING STATION, MOST DEPENDABLE FOUNTAINS MODEL 10485 WM. NO OTHER MANUFACTURERS ARE ALLOWED. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

ED-1 CAST IRON FLOOR DRAIN WITH FLANGE, INTEGRAL REVERSIBLE COLLAR, SEEPAGE OPENINGS AND 5" ROUND ADJUSTABLE NICKEL BRONZE STRAINER TOP, JAY R SMITH MODEL 2031S. PROVIDE A TRAP SEAL CONFORMING TO ASSE 1018 OR ASSE 1044, ON ALL TRAPS SUBJECT TO LOSS BY EVAPORATION, EQUAL TO JAY R SMITH MODEL 2692.

WATER HEATER ELECTRIC TANK TYPE 12 GALLON, 1500W NON-SIMULTANEOUS HEATING ELEMENTS, 115V/1/60, EQUAL TO LOCHINVAR MODEL KTA030KD. WITH ALL OPERATING AND SAFETY CONTROLS, INCLUDING ASME P&T RELIEF VALVE.

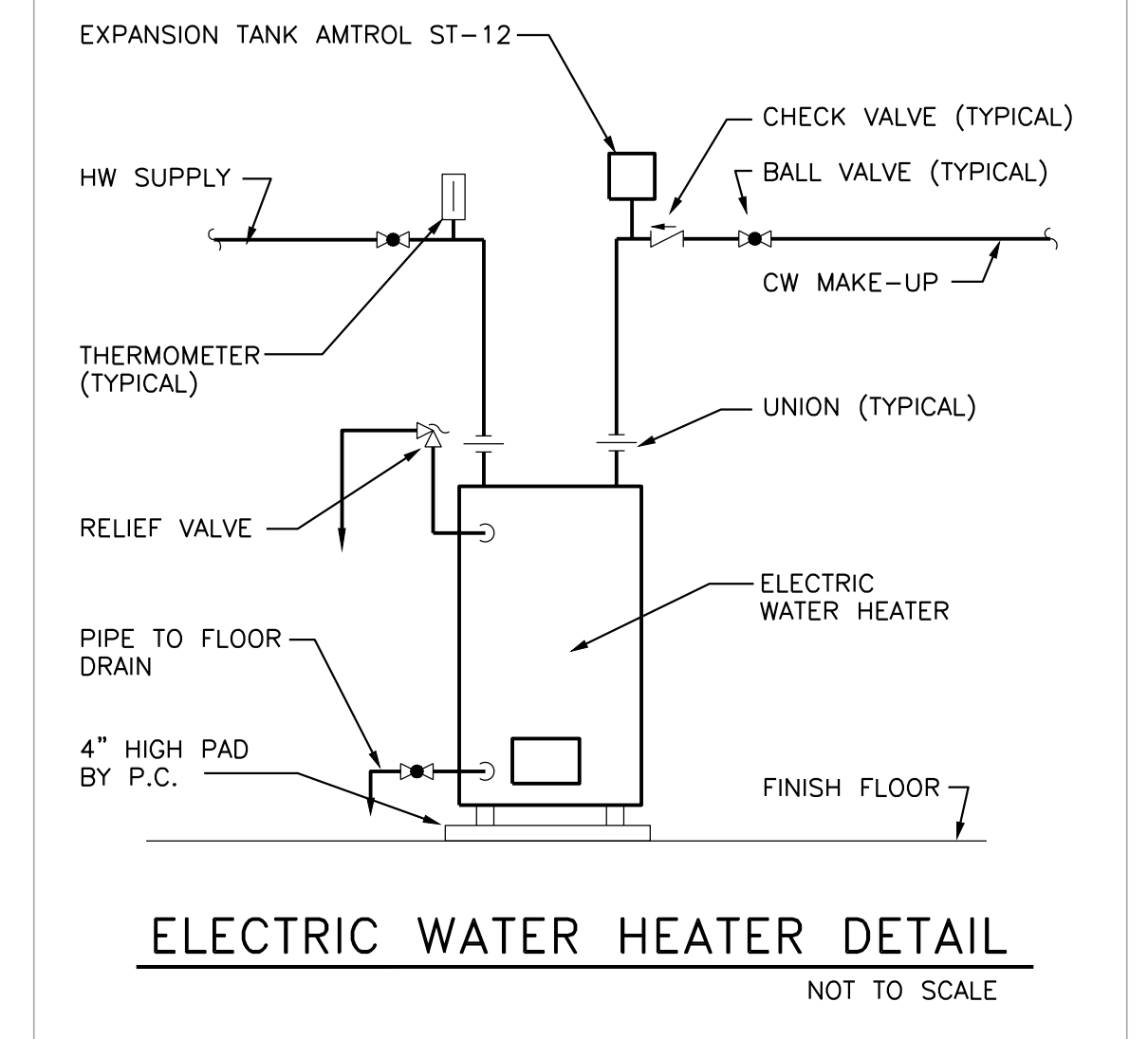
- IN CONCEALED LOCATIONS WHERE PIPING IS INSTALLED THROUGH STUDS, JOISTS, OR RAFTERS, PROVIDE A 1/16" THICK STEEL PROTECTIVE SHIELD TO PROTECT THE PIPE FROM PUNCTURES.
- PROVIDE WATER HAMMER ARRESTERS WHERE QUICK CLOSING VALVES ARE USED, OR AS REQUIRED. ARRESTERS SHALL CONFORM TO ASSE 1010 AND ACCESS SHALL BE PROVIDED TO EACH ARRESTER.
- ALL PLUMBING VENTS THROUGH THE ROOF TO BE INSTALLED A MINIMUM OF 10'-0" AWAY FROM ALL FRESH AIR INTAKE OPENINGS.
- DO NOT INSTALL ANY PIPING AROUND ELECTRICAL EQUIPMENT TO INSURE ALL CODE REQUIRED CLEARANCES. SEE ELECTRICAL PLANS FOR THESE LOCATIONS.
- REFER TO MINIMUM SIZE CONNECTION SCHEDULE FOR ALL PLUMBING FIXTURES BRANCH PIPING SIZES.
- PROVIDE IDENTIFICATION ON ALL SHUT-OFF VALVES SERVING WALL HYDRANTS AND HOSE BIBBS. IDENTIFY ALL OTHER VALVES THAT ARE NOT ADJACENT TO THE FIXTURE THEY SERVE.
- PROVIDE A TEMPERING VALVE AT ALL ACCESSIBLE HANDWASHING FIXTURES THAT CONFORMS TO ASSE 1070.
- ALL DOMESTIC PIPING TO BE TYPE 'L' COPPER, INSULATED TO MEET CODE.
- ALL SANITARY PIPING TO BE SCHEDULE 40 PVC.
- VENTING SHALL BE INSTALLED IN ACCORDANCE WITH CODE.
- PROVIDE DRAIN VALVES AT ALL LOW POINTS OF PIPING SYSTEM TO ALLOW FOR FULL DRAINDOWN AND WINTERIZATION OF DOMESTIC PIPING. ALL PIPING TO SLOPE IN DIRECTION OF DRAIN VALVES.

PLUMBING NOTES

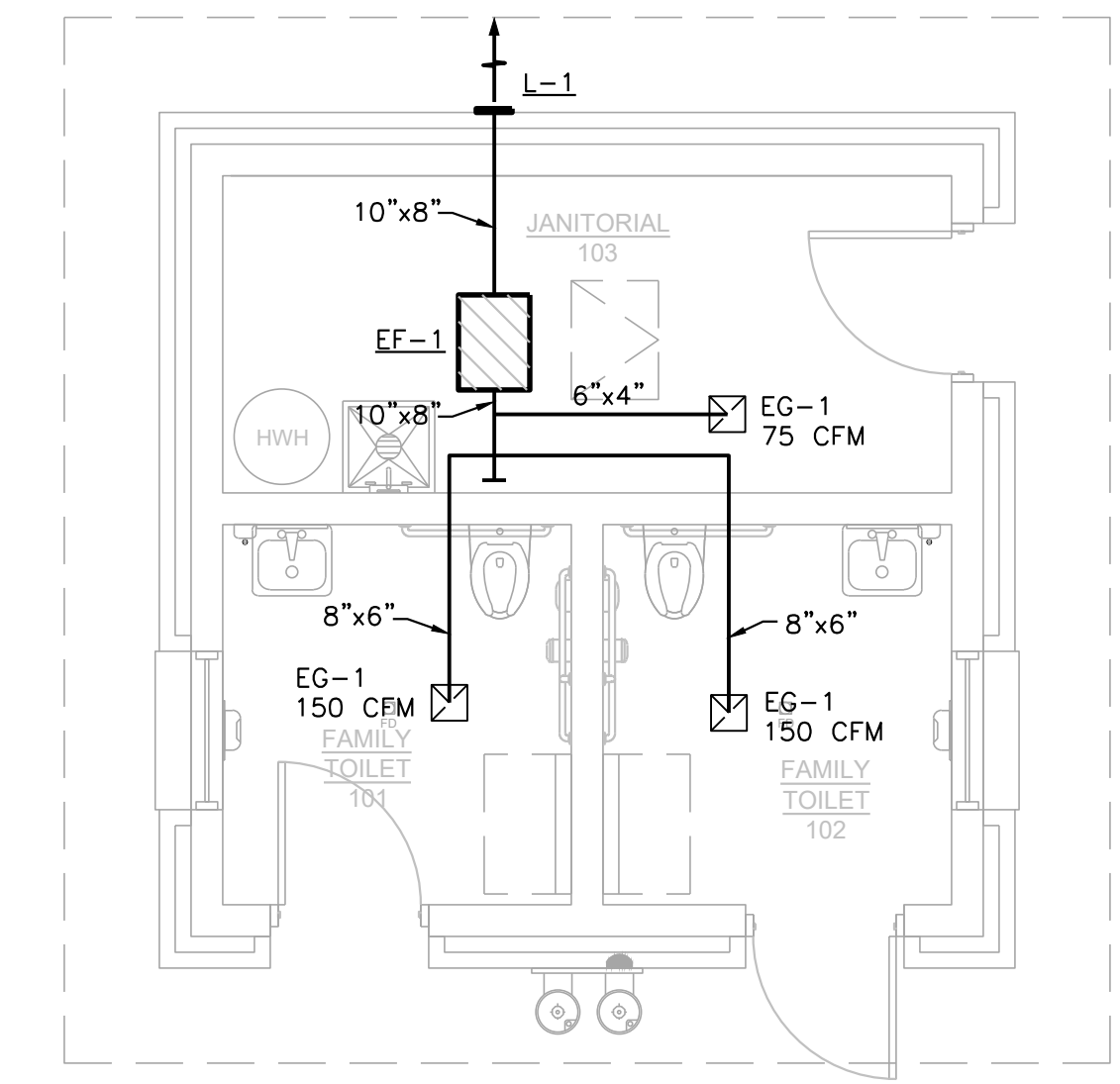


WATER METER INSTALLATION DETAIL
NOT TO SCALE

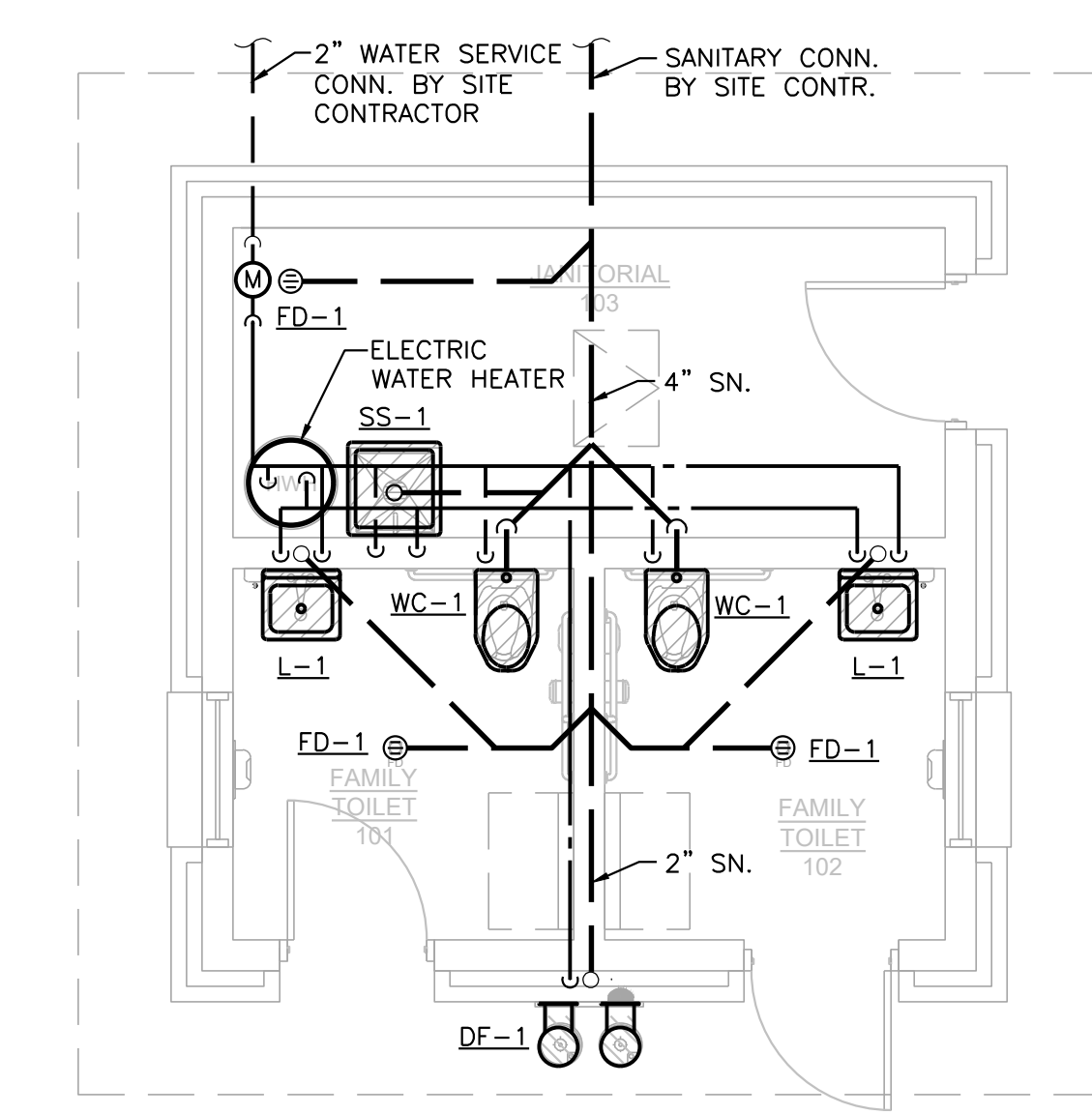
FIXTURE	MINIMUM SIZE CONNECTION				REMARKS
	SAN.	C.W.	H.W.	VENT	
W.C.	4"	1"		2"	
LAV.	1 1/2"	1/2"	1/2"	1 1/2"	
SERVICE SINK	3"	3/4"	3/4"	1 1/2"	
DF	1 1/2"	1/2"		1 1/2"	



ELECTRIC WATER HEATER DETAIL
NOT TO SCALE



FLOOR PLAN - MECHANICAL
SCALE: 1/4" = 1'-0"



FLOOR PLAN - PLUMBING
SCALE: 1/4" = 1'-0"

GENERAL LIGHTING NOTES:

- CONNECT EMERGENCY LIGHTING TO CIRCUIT FEEDING GENERAL LIGHTING IN THAT AREA.

LIGHTING KEY NOTES:

- ◇ PROVIDE MOTION/PHOTOCELL SENSOR TO CONTROL EXTERIOR LIGHT- ACUITY NIO PC KIT OR EQUAL.
- ◇ PROVIDE OCCUPANCY SENSOR WALL SWITCH IN ALL FAMILY TOILETS WITH VANDAL RESISTANT LENS - ACUITY: WSXA OR EQUAL. AUTO ON AND AUTO FULL OFF AFTER 20 MINUTES.

LIGHT FIXTURE LEGEND								
FIXTURE TYPE	DESCRIPTION	MANU.	CATALOG PART#	FINISH	VOLTAGE	LAMPS	Wattage	REMARKS
A	4" LED STRIP	LITHONIA	CSS L48 4000LM MVOLT 40K 80 CRI	WHITE	MVOLT	LED 4000K	40	
B	7" VANDAL-RESISTANT DOWNLIGHT POLYCARBONATE LENS IC RATED	KIRLIN	LRG-07VND-IC-1500L-120-RWF-MFL-80CRI-35K	WHITE	MVOLT	LED 3500K	15	
C	3" VANDAL-RESISTANT LED STRIP LIGHT	LUMINAIRE	CLF7-3FT-NODM-25W-35K-120-CLP	WHITE	MVOLT	LED 3500K	25	MOUNT ABOVE MIRROR
D	EXTERIOR SURFACE MOUNTED VANDAL RESISTANT LIGHT	KIRLIN			MVOLT	LED 4000K		
EM	EMERGENCY LIGHT WBATTERY BACK UP	LITHONIA	EML4	WHITE		LED		

GENERAL LIGHT FIXTURE SCHEDULE NOTES:
1.

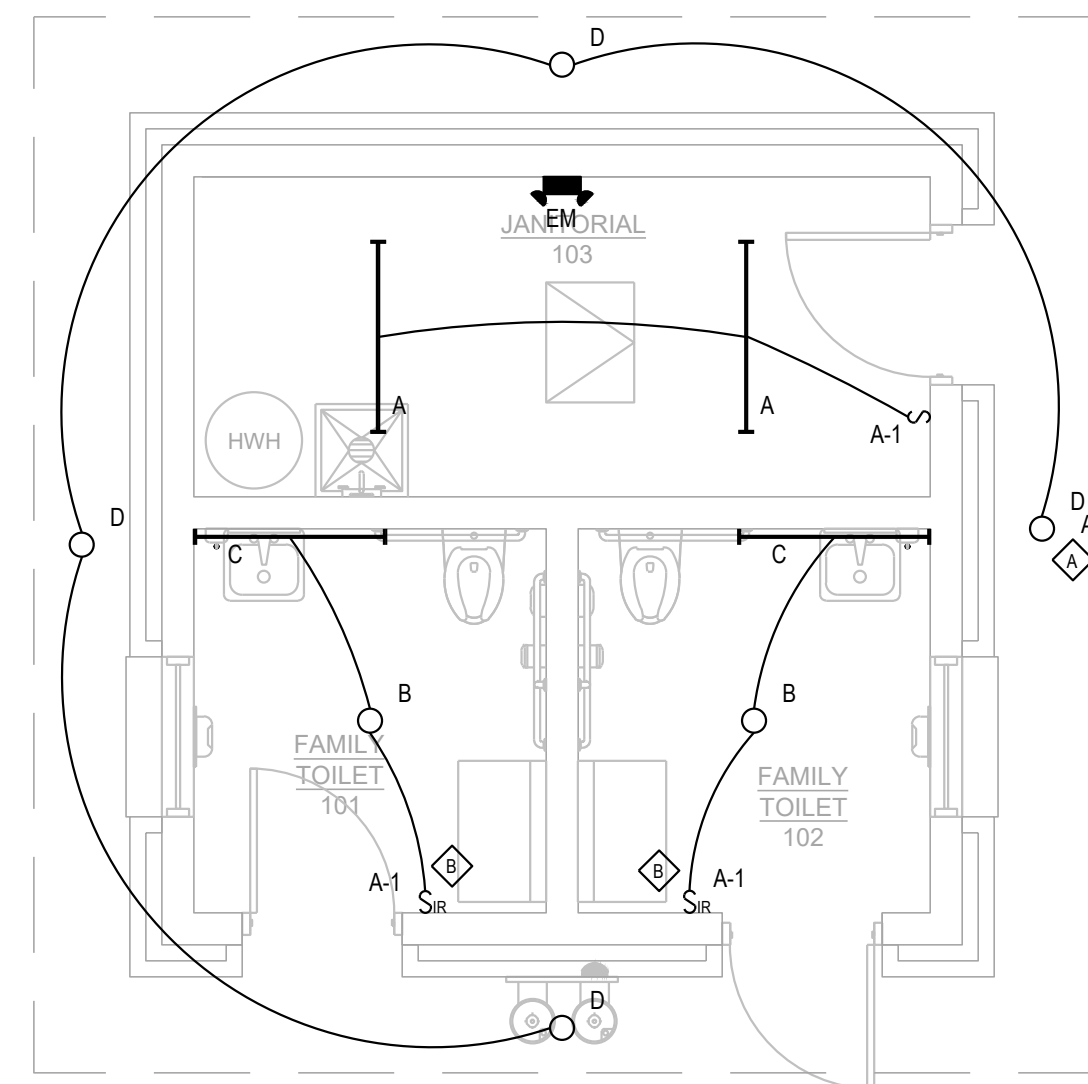
GENERAL POWER NOTES:

- MOUNT PANELS, TRANSFORMERS, DISCONNECT SWITCHES, AND COMBINATION MOTOR STARTERS WITH ADEQUATE CLEARANCES IN ACCORDANCE WITH NEC 110.

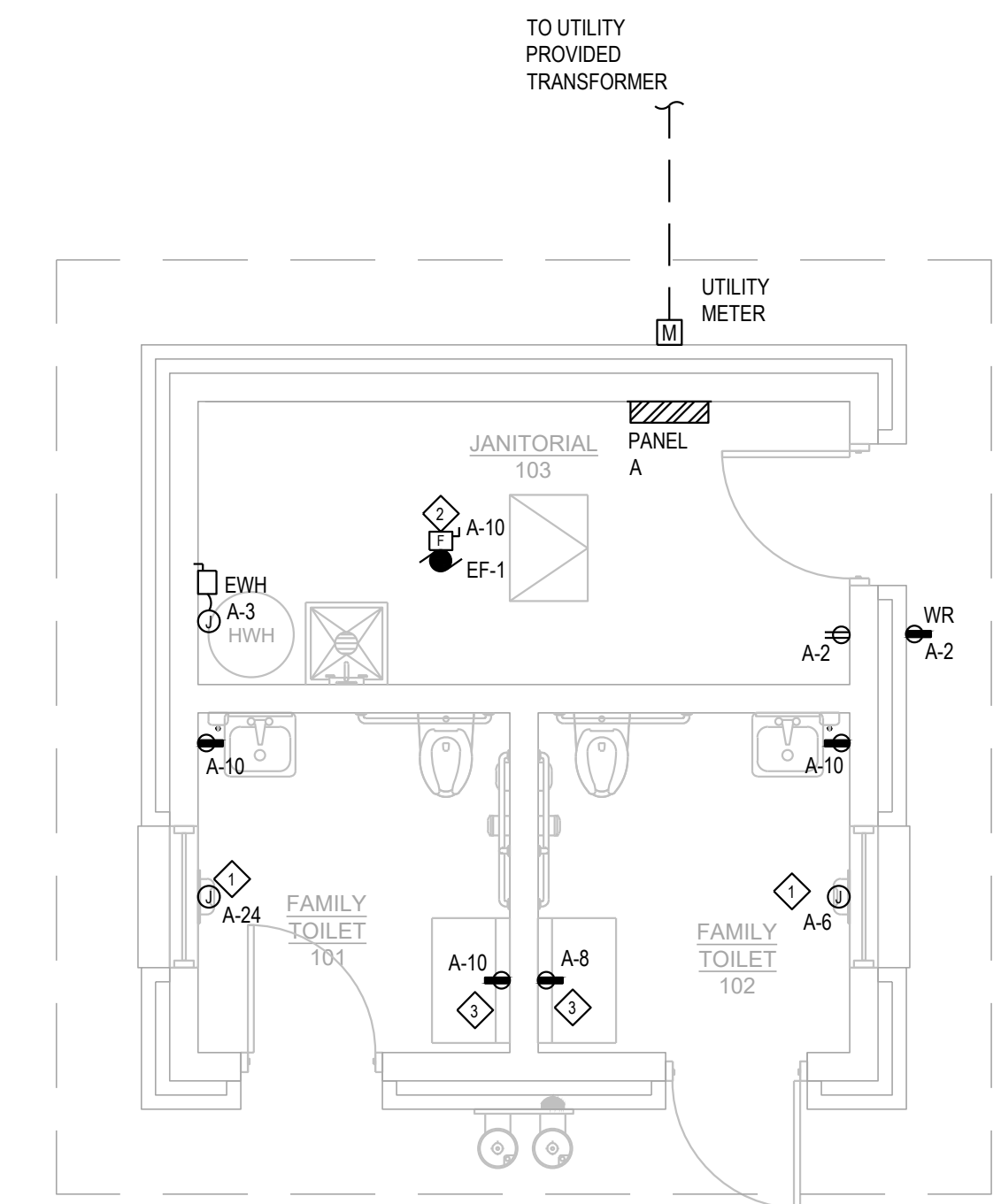
POWER KEYNOTES:

- ◇ ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL HAND DRYERS, EXCEL - XLERATOR MODEL XLW SURFACE MOUNT, NO-TOUCH CONTROL, WHITE COVER, 115V 20A 1450 W.
- ◇ EXHAUST FAN AND LIGHT FIXTURE(S) IN ROOM SHALL BE CONTROLLED TOGETHER. PROVIDE SENSOR RATED FOR MOTOR AND LIGHTING LOAD. REFER TO LIGHTING PLAN FOR CIRCUIT INFORMATION.
- ◇ OUTLET FOR ADULT POWERED CHANGING TABLE. MOUNT OUTLET AT STANDARD HEIGHT.

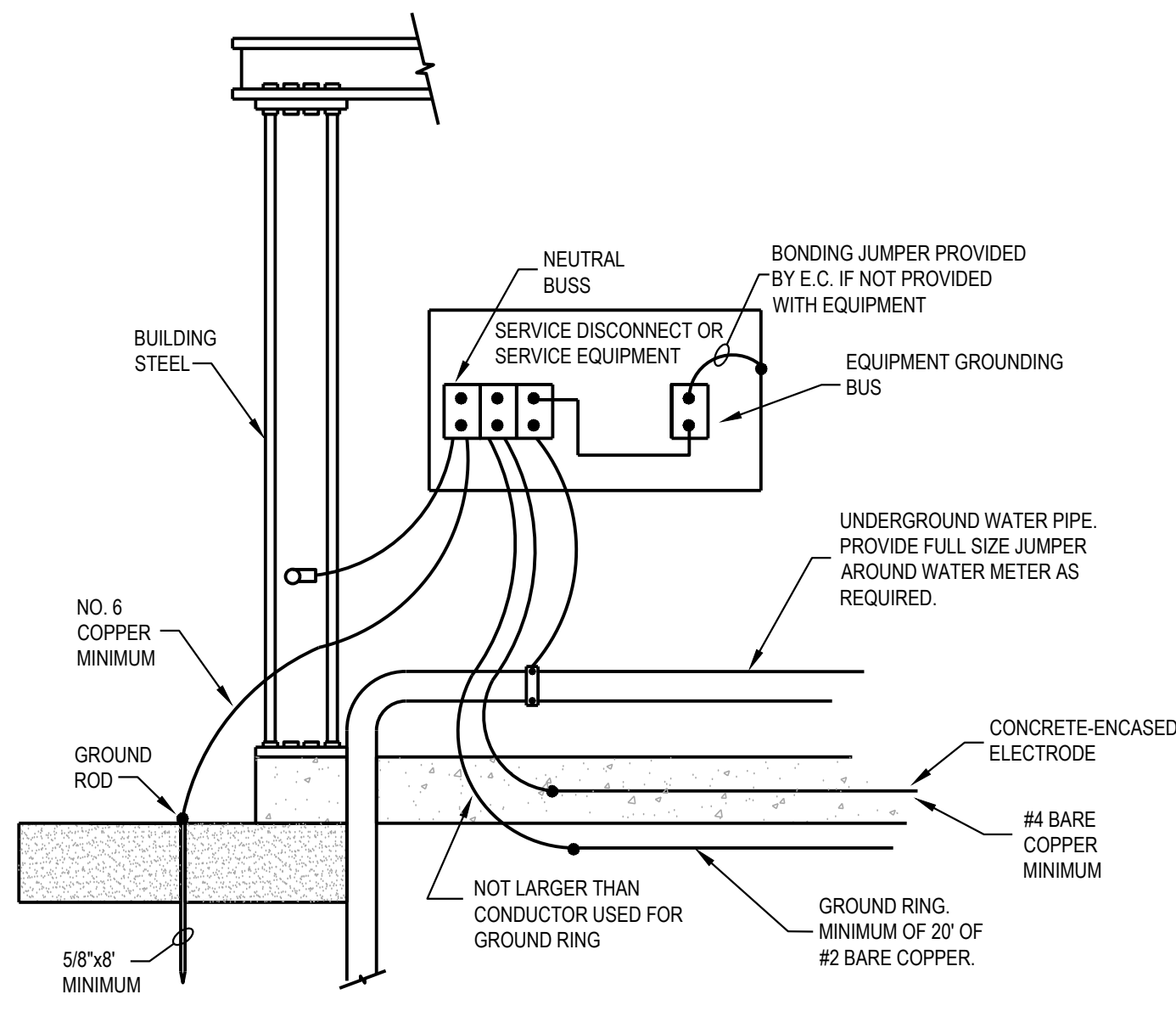
A																											
BASED ON SQ. FT. LINE OR EQUAL																											
CKT NO.	VOLT AMPS					DESCRIPTION	CKT BRKR	L	CKT BRKR	DESCRIPTION	VOLT AMPS																
	LTG.	HVAC	MTRS.	REC.	OTHER						LTG.	HVAC	MTRS.	REC.	OTHER	NO.											
1						LIGHTING	20	A	20	REC																	
3						1500 ELEC WATER HEATER	20	B	20	HAND DRYER												1200	4				
6						SPARE	20	A	20	HAND DRYER													1200	6			
7				300		PWR CHANGE TABLE	20	B	20	PWR CHANGE TABLE												300	8				
9							20	A	20	REST ROOM												100	360	10			
11							20	B	20															12			
13							20	A	20															14			
15							20	B	20															16			
17							20	A	20															18			
19																								20			
SUBT	0	0	0	300	1500																	0	0	100	1020	2400	SUBT
TOTAL LOAD											5,320 VA		DIVERSITY				VOLTS:		120/240								
LTG =											0		125%		0		PHASE:		1								
HVAC =											0		100%		0												
MOTORS =											100 VA		125% 125%LRGST + 100%		125 VA		CIRCUIT CAPACITY:		100A								
RECEPT =											1,320 VA		100% 50%>10kVA		1,320 VA		MAIN BREAKER		SURFACE								
OTHER =											3,900 VA		100%		3,900 VA		MOUNTING:		JANITORIAL								
TOTAL DIV. LOAD =											5,345 VA						LOCATION:										
LINE AMPS =											22																
LINE AMPS X 1.25 =											28 A																
NOTES:																											



FLOOR PLAN - LIGHTING
SCALE: 1/4" = 1'-0"

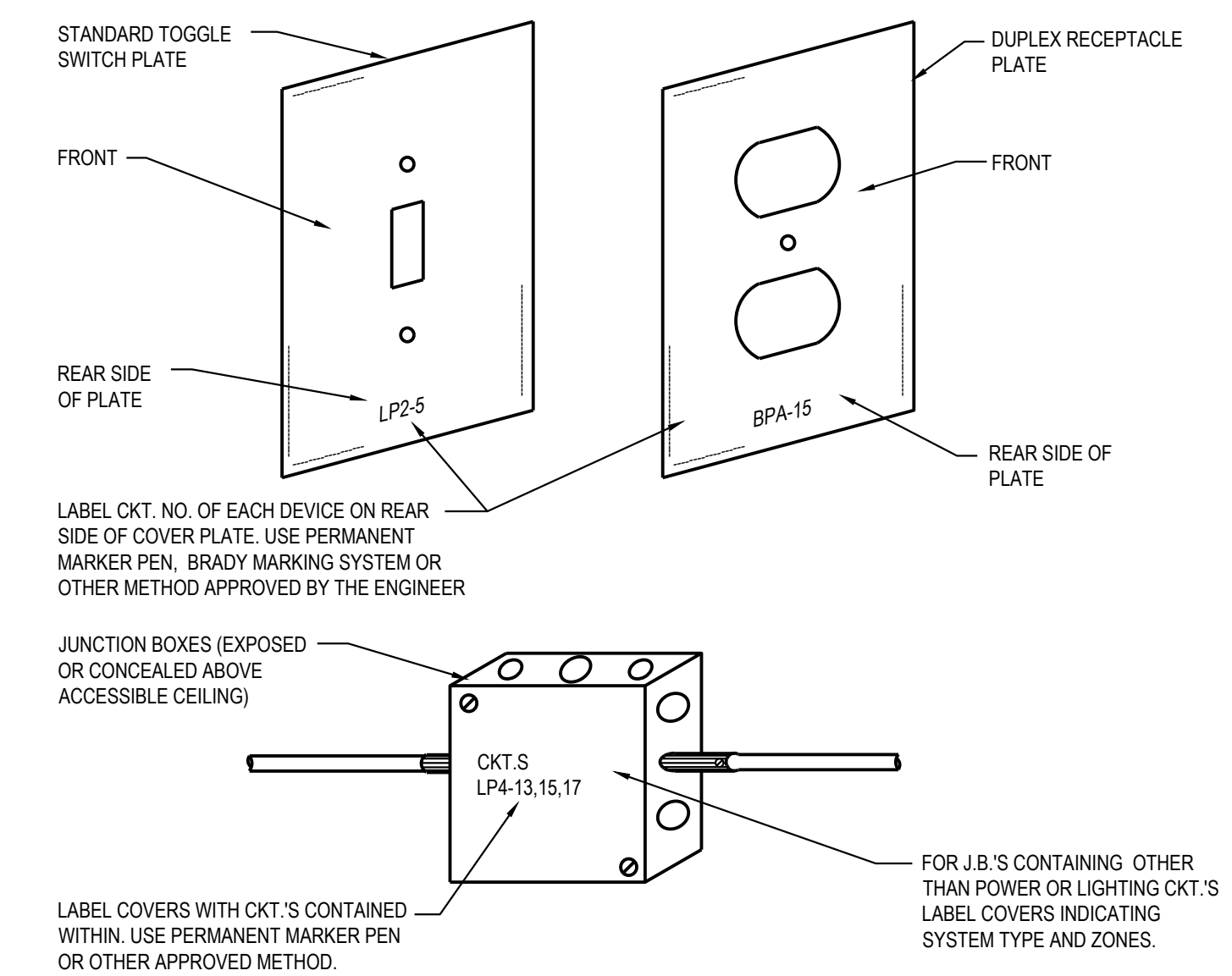


FLOOR PLAN - POWER
SCALE: 1/4" = 1'-0"



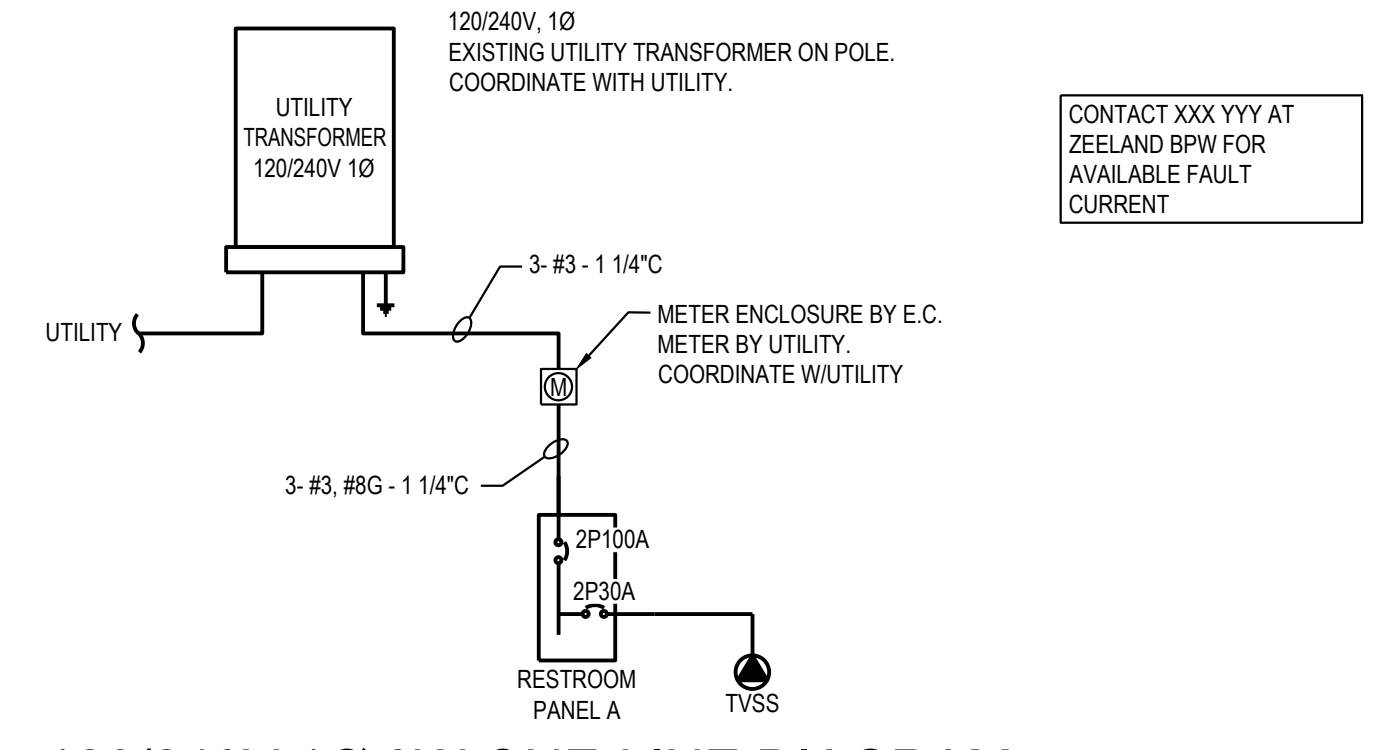
A-1
E2
GROUNDING ELECTRODE SYSTEM
N.T.S.

1. REFER TO NATIONAL ELECTRIC CODE FOR ALL REQUIREMENTS FOR A PROPERLY GROUNDING SYSTEM.
2. ALL GROUND CONDUCTORS TO BE SIZED ACCORDING TO ART. 250 OF THE NATIONAL ELECTRIC CODE.



A-2
E2
ELECTRICAL IDENTIFICATION
N.T.S.

ONE LINE GENERAL NOTES
REFER TO WIRE SIZING CHART. COPPER OR ALUMINUM MAY BE UTILIZED AT CONTRACTORS DISCRETION UNLESS NOTED OTHERWISE. COORDINATE ROUTING WITH TRADES ON SITE.
PROVIDE HAZARD LABELS PER CODE MEETING ANSI Z355-4
ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DISCONNECTS (HEAVY DUTY) AND FUSES UNLESS OTHERWISE NOTED. COORDINATE WITH MECHANICAL EQUIPMENT FOR EXACT FUSE SIZES.
MEASURE GROUND GRID RESISTANCE WITH EARTH GROUND TEST METER AND INSTALL ADDITIONAL GROUND RODS AND CONDUCTORS AS REQUIRED UNTIL RESISTANCE TO GROUND COMPLIES WITH CODE.



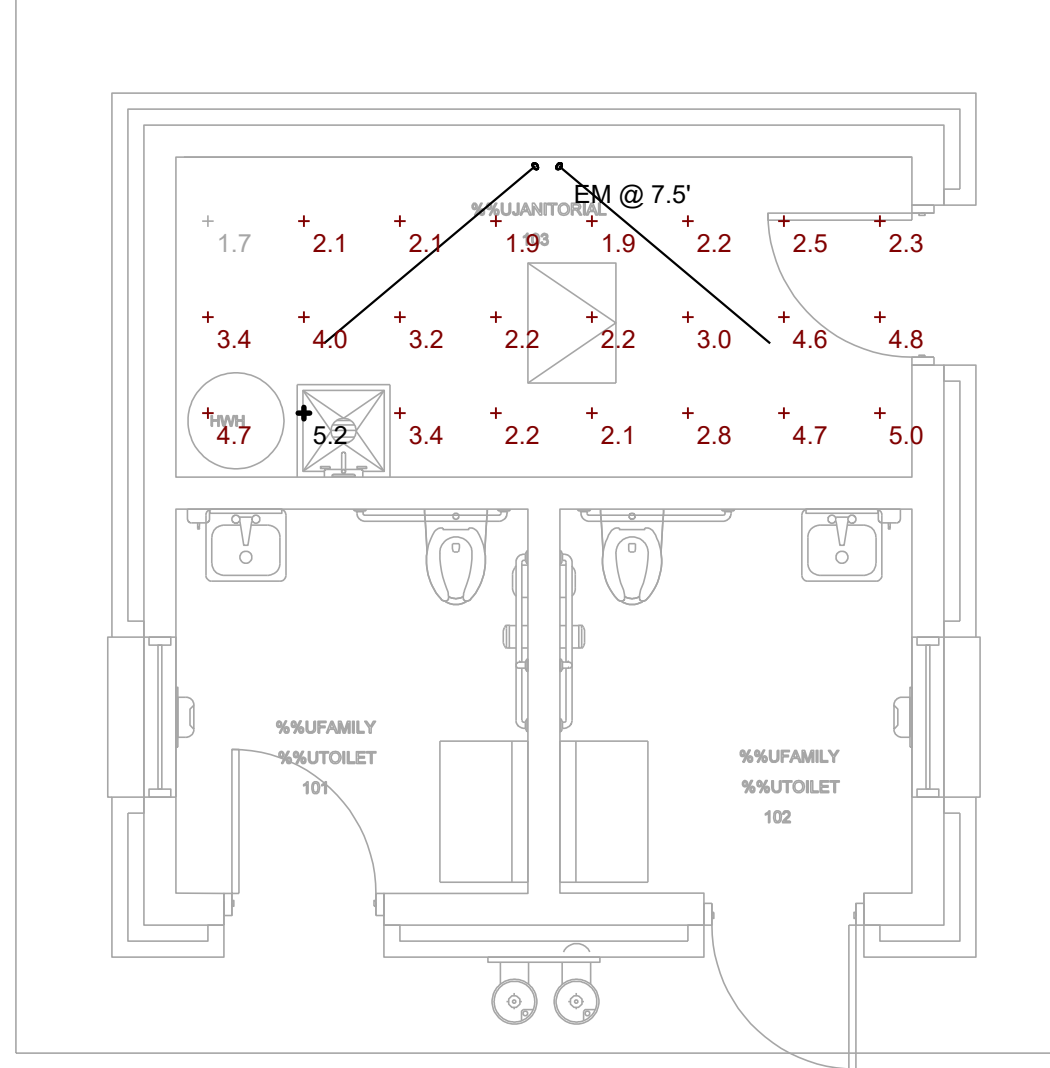
C
E2
120/240V 1Ø 3W ONE-LINE DIAGRAM
NO SCALE

CONDUCTOR AND CONDUIT SIZING					
MAX. OCCUP.	COPPER WIRE (3) COND + G DESCRIPTION	ALUMINUM WIRE (3) COND + G DESCRIPTION	COPPER WIRE (4) COND + G (LINEAR LOADS) DESCRIPTION	COPPER WIRE (4) COND + G ¹ (NON-LINEAR LOADS) DESCRIPTION	ALUMINUM WIRE (4) COND + G ¹ (NON-LINEAR LOADS) DESCRIPTION
20	#12, #12G, 1/2\"C		#12, #12G, 1/2\"C	#12, #12G, 1/2\"C	
30	#10, #10G, 3/4\"C		#10, #10G, 3/4\"C	#10, #10G, 3/4\"C	
40	#8, #8G, 3/4\"C		#8, #8G, 3/4\"C	#8, #8G, 3/4\"C	
50	#6, #6G, 3/4\"C		#6, #6G, 3/4\"C	#6, #6G, 3/4\"C	
60	#4, #4G, 1\"C		#4, #4G, 1\"C	#4, #4G, 1\"C	
70	#3, #3G, 1\"C		#3, #3G, 1\"C	#3, #3G, 1\"C	
80	#2, #2G, 1\"C		#2, #2G, 1\"C	#2, #2G, 1\"C	
90	#1, #1G, 1 1/4\"C		#1, #1G, 1 1/4\"C	#1, #1G, 1 1/4\"C	
100	#1, #1G, 1 1/4\"C	3-#1, #6G, 1 1/4\"C	#1, #1G, 1 1/4\"C	#1, #1G, 1 1/4\"C	4-20, #6G, 2 1/2\"C
110	#1, #1G, 1 1/4\"C		#1, #1G, 1 1/4\"C	#1, #1G, 1 1/4\"C	4-30, #4G, 2 1/2\"C
125	#1, #1G, 1 1/2\"C		#1, #1G, 1 1/2\"C	#1, #1G, 1 1/2\"C	4-30, #4G, 2 1/2\"C
150	3-10, #6G, 1 1/2\"C	3-30, #4G, 2\"C	4-10, #6G, 1 1/2\"C	4-30, #6G, 2\"C	4-40, #4G, 2 1/2\"C
175	3-20, #6G, 2\"C		4-20, #6G, 2\"C	4-40, #6G, 2 1/2\"C	4-300kcmil, #4G, 3\"C
200	3-40, #4G, 2\"C	3-250kcmil, #2G, 2 1/2\"C	4-40, #4G, 2 1/2\"C	4-250kcmil, #4G, 2 1/2\"C	4-350kcmil, #4G, 3\"C
225	3-40, #4G, 2\"C	3-300kcmil, #2G, 3\"C	4-40, #4G, 2 1/2\"C	4-300kcmil, #4G, 3\"C	4-500kcmil, #2G, 3 1/2\"C
250	3-250kcmil, #4G, 2 1/2\"C	3-350kcmil, #2G, 3\"C	4-250kcmil, #4G, 2 1/2\"C	4-350kcmil, #4G, 3\"C	4-500kcmil, #2G, 3 1/2\"C
300	3-350kcmil, #4G, 3\"C	3-500kcmil, #1G, 3 1/2\"C	4-350kcmil, #4G, 3\"C	4-500kcmil, #4G, 3 1/2\"C	4-700kcmil, #1G, 4\"C
350	3-500kcmil, #4G, 3\"C	3-700kcmil, #1G, 4\"C	4-350kcmil, #4G, 3 1/2\"C	(2) 4-40, #6G, 2 1/2\"C	(2) 4-300kcmil, #1G, 3\"C
400	3-600kcmil, #3G, 3\"C	(2) 3-250kcmil, #1G, 2 1/2\"C	4-600kcmil, #3G, 3 1/2\"C	(2) 4-250kcmil, #3G, 2 1/2\"C	(2) 4-350kcmil, #1G, 3\"C
500	(2) 3-250kcmil, #2G, 2 1/2\"C	(2) 3-350kcmil, 10G, 3\"C	(2) 4-250, #2G, 2 1/2\"C	(2) 4-350kcmil, #2G, 2 1/2\"C	(2) 4-500kcmil, 10G, 3 1/2\"C
600	(2) 3-350kcmil, #1G, 3\"C	(2) 3-500kcmil, 20G, 3\"C	(2) 4-350kcmil, #1G, 3\"C	(2) 4-500kcmil, #1G, 3\"C	(2) 4-700kcmil, 20G, 4\"C
700	(2) 3-500kcmil, 10G, 3\"C	(2) 3-700kcmil, 30G, 4\"C	(2) 4-500kcmil, 10G, 3\"C	(2) 4-350kcmil, 10G, 3\"C	(2) 4-600kcmil, 30G, 3 1/2\"C
800	(2) 3-600kcmil, 10G, 4\"C	(2) 3-400kcmil, 30G, 3\"C	(2) 4-600kcmil, 10G, 4\"C	(2) 4-400kcmil, 10G, 4\"C	(2) 4-600kcmil, 30G, 4\"C
1000	(3) 3-500kcmil, 20G, 3\"C	(3) 3-600kcmil, 40G, 3 1/2\"C	(3) 4-500kcmil, 20G, 3 1/2\"C	(4) 4-350kcmil, 20G, 3\"C	(4) 4-600kcmil, 40G, 4\"C
1200	(4) 3-350kcmil, 30G, 3\"C	(4) 3-500kcmil, 250kcmilG, 3 1/2\"C	(4) 4-350kcmil, 30G, 3\"C	(4) 4-500kcmil, 30G, 3 1/2\"C	(4) 4-750kcmil, 250kcmilG, 4\"C
1400	(4) 3-500kcmil, 40G, 3\"C	(4) 3-700kcmil, 350kcmilG, 3 1/2\"C	(4) 4-500kcmil, 40G, 3 1/2\"C	(4) 4-500kcmil, 40G, 3 1/2\"C	(4) 4-700kcmil, 350kcmilG, 4\"C
1600	(4) 3-600kcmil, 40G, 4\"C	(5) 3-600kcmil, 350kcmilG, 3 1/2\"C	(4) 4-600kcmil, 40G, 4\"C	(4) 4-600kcmil, 40G, 4\"C	(4) 4-600kcmil, 350kcmilG, 4\"C
2000	(5) 3-600kcmil, 250kcmil G, 4\"C	(6) 3-500kcmil, 400kcmil G, 3 1/2\"C	(5) 4-600kcmil, 250kcmil G, 4\"C	(7) 4-500kcmil, 250kcmil G, 3 1/2\"C	(7) 4-700kcmil, 400kcmil G, 4\"C
2500	(7) 3-500kcmil, 350kcmil G, 3 1/2\"C	(7) 3-750kcmil, 600kcmil G, 4\"C	(7) 4-500kcmil, 350kcmil G, 3 1/2\"C	(8) 4-500kcmil, 350kcmil G, 3 1/2\"C	(8) 4-700kcmil, 600kcmil G, 4\"C
3000	(8) 3-600kcmil, 400kcmil G, 3 1/2\"C	(8) 3-750kcmil, 600kcmil G, 4\"C	(8) 4-600kcmil, 400kcmil G, 3 1/2\"C	(8) 4-750kcmil, 400kcmil G, 3 1/2\"C	(10) 4-700kcmil, 600kcmil G, 4\"C
4000	(9) 3-750kcmil, 500kcmil G, 5\"C	(11) 3-700kcmil, 750kcmil G, 4\"C	(9) 4-750kcmil, 500kcmil G, 5\"C	(12) 4-900kcmil, 500kcmil G, 4\"C	(14) 4-700kcmil, 750kcmil G, 4\"C

NOTES: AMPACITY THHN/THWN, 75 DEG. RATING NEC, 2023
*CONDUCTOR AMPACITY REDUCED TO 80% PER NEC AMPACITY TABLE 310.16. ASSUMING NONLINEAR LOADS, THE NEUTRAL SHALL BE CONSIDERED TO BE A CURRENT-CARRYING CONDUCTOR. CONDUIT SIZE BASED ON EMT. E.C. RESPONSIBLE FOR SIZE CHANGES WHEN DIFFERENT TYPE OF CONDUIT IS USED.
NOTE: LIGHTING LOADS ARE CONSIDERED NON-LINEAR. THEREFORE MOST PANELS ARE NON-LINEAR.

Symbol	Label	Image	QTY	Manufacturer	Catalog	Description	Number	Lamp Output	LLF	Input Power	Polar Plot
EM			1	Lithonia Lighting	ELMAL	ELMAL SP40L	1	340	1	2.5	

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
JANITORIAL 103	+	3.1 ft.	5.2 ft.	1.7 ft.	3.1:1	1.8:1



FLOOR PLAN - EMERGENCY PHOTOMETRICS
SCALE: 1/4" = 1'-0"

ELECTRICAL SYMBOL LEGEND		
SYMBOL	DESCRIPTION	MTG. HT. TO Q _L
S S ₃	SINGLE POLE OR 3-WAY SWITCH-SPECIFICATION GRADE	46"
S D	DIMMER SWITCH	46"
S IR	IR SWITCH	46"
OS	OCCUPANCY SENSOR	
PC	PHOTO CELL	
TC	TIME CLOCK	--
WR	WATER RESISTANT GROUND FAULT CIRCUIT INTERRUPTER WITH WEATHERPROOF WHILE IN USE COVER	18"
Ⓢ	DUPLEX OUTLET-SPEC. GRADE CIRCLE AROUND SYMBOL-CEILING MOUNTED	18"
Ⓢ	SPECIAL SINGLE RECEPTACLE	18"
Ⓢ	SPECIAL OUTLET-CHARACTERISTICS AS NOTED ON PLANS	AS NOTED
Ⓢ	JUNCTION BOX - 4" SQ. BOX W/ 2 GANG RAISED COVER - 1\"/>	

- SYMBOL NOTES:**
1. "AC" DENOTES ABOVE COUNTER. COORDINATE HEIGHT WITH ARCHITECT.
2. "H" DENOTES HORIZONTAL MOUNTING OF DEVICE.
3. "W" DENOTES WALL MOUNTED AT 46" AFF.
4. "B" DENOTES MOUNTED IN BASE.
5. "F" DENOTES MOUNTED IN FACE OF CABINETS.

BENCHMARKS - NAVD88 (GEIOD 18)

ELEV = 644.95
 A RAILROAD SPIKE IN THE SOUTHEAST CORNER OF A UTILITY POLE LOCATED 30'± NORTH OF THE CENTERLINE OF RICH AVENUE & 1'± WEST OF THE WEST BACK OF CURB PECK STREET.

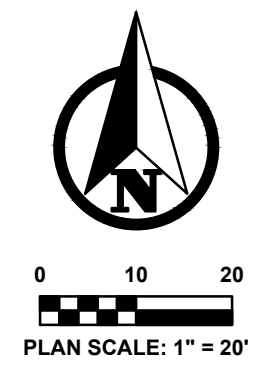
ELEV = 645.97
 TOP OF THE SOUTHWEST BOLT ON A HYDRANT FLANGE LOCATED 30'± NORTH OF THE CENTERLINE RICH AVENUE & 19'± WEST OF THE CENTERLINE MAPLE STREET.

CONTROL POINTS - MI SOUTH SPCS NAD83

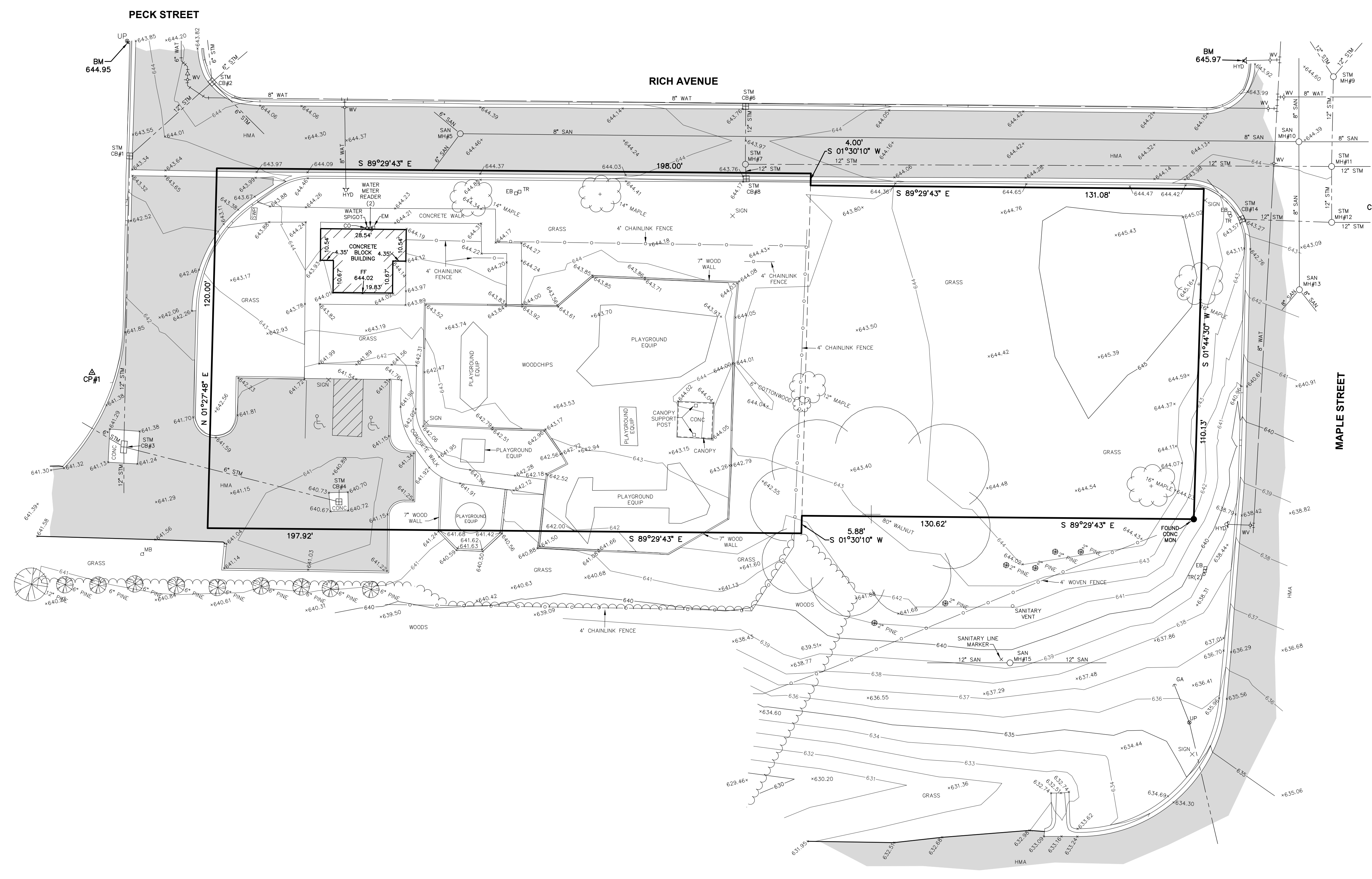
CP#1	CP#2
M#8 RED CAP	M#8 RED CAP
N 480259.5274	N 480317.1589
E 12682185.9510	E 12682613.9410
ELEV 642.204	ELEV 644.14

EXISTING UNDERGROUND UTILITY DATA

- | | | | | | | | | | | | | | | |
|--|---|--|---|--|--|---|--|--|---|--|---|---|---|--|
| STORM CB#1
RIM 643.34
12" CONC INV S 638.44
12" CONC INV NE 639.44
BOTTOM STRUCTURE 635.39
2"x2" SQ RIM
4" DIA PRECAST STRUCTURE | STORM CB#2
RIM 643.70
12" CONC INV SW 639.75
6" CPP INV NW 640.65
6" CPP INV SE 640.70
6" PVC INV NE 640.30
BOTTOM STRUCTURE 637.25
2"x2" SQ RIM
2" DIA PRECAST STRUCTURE | STORM CB#3
RIM 641.00
6" PVC INV ESE 638.10
6" PVC INV NW 638.10
12" CONC INV S 636.65
12" CONC INV N 636.50
BOTTOM STRUCTURE 634.90
2"x3" REC RIM
4" DIA CONC BLOCK STRUCTURE | STORM CB#4
RIM 640.57
6" PVC INV MW 638.57
BOTTOM STRUCTURE 636.47
2"x2" SQ RIM
2" DIA PRECAST STRUCTURE
DEBRIS | STORM CB#5
RIM 643.67
12" CONC INV N 640.27
BOTTOM STRUCTURE 638.52
2"x2" SQ RIM
2" DIA PRECAST STRUCTURE | STORM CB#6
RIM 644.17
12" CONC INV S 640.51
BOTTOM STRUCTURE 637.71
2"x2" SQ RIM
2" DIA PRECAST STRUCTURE | STORM MH#7
RIM 643.82
12" CONC INV N 640.27
12" CONC INV S 640.22
BOTTOM STRUCTURE 639.92
2" DIA RIM
4" DIA PRECAST STRUCTURE | STORM MH#8
RIM 644.29
12" CONC INV NW 639.59
12" CONC INV NE 639.79
12" CONC INV S 639.49
BOTTOM STRUCTURE 639.29
2" DIA RIM
4" DIA PRECAST STRUCTURE | STORM MH#9
RIM 644.29
12" CONC INV NW 639.59
12" CONC INV NE 639.79
12" CONC INV S 639.49
BOTTOM STRUCTURE 639.29
2" DIA RIM
4" DIA PRECAST STRUCTURE | STORM MH#10
RIM 644.34
8" PVC INV N 637.34
8" PVC INV E 637.44
8" PVC INV S 637.24
8" PVC INV W 637.44
2" DIA RIM
4" DIA PRECAST STRUCTURE | STORM MH#11
RIM 644.17
12" CONC INV N 639.22
12" CONC INV E 639.22
12" CONC INV S 639.17
12" CONC INV W 639.37
BOTTOM STRUCTURE 639.07
2" DIA RIM
4" DIA PRECAST STRUCTURE | STORM MH#12
RIM 643.25
12" CONC INV W 639.05
12" CONC INV E 639.05
12" CONC INV S 639.05
BOTTOM STRUCTURE 638.75
2" DIA RIM
4" DIA PRECAST STRUCTURE | SANITARY MH#13
RIM 642.43
8" PVC INV N 637.73
8" PVC INV SE 637.48
8" PVC INV SW 637.68
2" DIA RIM
4" DIA PRECAST STRUCTURE | STORM CB#14
RIM 643.13
12" CONC INV NW 640.13
12" CONC INV ESE 639.63
BOTTOM STRUCTURE 637.23
2"x2" SQ RIM
4" DIA PRECAST STRUCTURE | SANITARY MH#15
RIM 639.38
12" INV E-W 631.58
2" DIA RIM
4" DIA PRECAST STRUCTURE |
|--|---|--|---|--|--|---|--|--|---|--|---|---|---|--|



LOCATION MAP
NO SCALE



P:\233094-Hoogland Park - Zeeland\CADD\DWG\233094-1-Hoogland Park - City of Zeeland - Base.dwg - Topographical Survey - 1/10/2024 8:45:11 AM - Merrick Damour



Utility locations are approximate only. Please contact "Miss Dig" three working days prior to the start of construction for exact locations. (1-800-482-7171)

- LEGEND**
- SANITARY SEWER (SAN)
 - STORM SEWER (STM)
 - - - AERIAL UTILITY LINE (AERIAL)
 - FENCE
 - HOT MIX ASPHALT SURFACE (HMA)
 - △ HYDRANT (HYD)
 - ⊕ WATER VALVE (WV)
 - WATER STOP BOX (WSB)
 - ⊕ FIRE PROT. VALVE (FPV)
 - MANHOLE (MH)
 - ⊕ CATCH BASIN (CB)
 - ⊕ UTILITY POLE (UP)
 - ⊕ GUY ANCHOR (GA)
 - SAN CLEANOUT (CO)
 - BM - BENCHMARK
 - CP - CONTROL POINT
 - FF - FINISHED FLOOR
 - SWP - SIDEWALK WARNING PAD
 - TELCOM - TELECOMMUNICATIONS
 - MAILBOX (MB)
 - ⊕ ELECTRIC METER (EM)
 - ELECTRIC BOX (EB)
 - TELCOM RISER (TR)

<p>PLAN REVISIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>																					<p>TOPOGRAPHIC SURVEY OF PART OF NW 1/4, SECTION 19, TOWN 5 NORTH, RANGE 14 WEST CITY OF ZEELAND, OTTAWA COUNTY, MICHIGAN PREPARED FOR CITY OF ZEELAND</p>	<p>SURVEY CREW / DATE: MOD / 11-13-23 DRAWN BY: MOD CHECKED BY: SJG CONTACT INFO: sgreen@mbce.com DATE: NOVEMBER 27, 2023 PROJECT NO.: 233094.01</p>
<p>Moore+Bruggink Consulting Engineers 2020 Monroe Ave. Grand Rapids, MI 49505 (616) 363-9801 mailbox@mbce.com</p>		<p>1 OF 1</p>																				









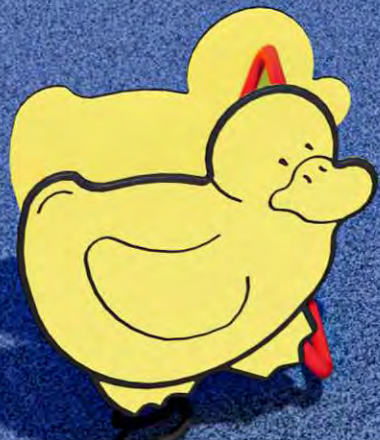






City of Zeeland
Hoogland Park





City of Zeeland
Hoogland Park









City of Zeeland
Hoogland Park



UPRIGHT BROWN ACCENT SCOTCH DECK BROWN PLASTIC CHARI REUSE HDPE SKY BLUE HDPE-C SB/WHI SHADE N/A ROOF CHARI/SCOTCH CABLE BLACK MAX/APEX CHARI REUSE

HOOGLAND PARK

ZEELAND, MICHIGAN

733-172279

PLEASE NOTE: RENDERINGS ARE FOR VISUAL PURPOSES ONLY. ANY PRODUCTS AND/OR SITE DETAILS HEREIN MAYBE SUBJECT TO CHANGE WITHOUT NOTICE.

play&park
structures
A PLAYCORE Company

544 CHESTNUT ST.
 CHATTANOOGA, TN 37402
800.727.1907
PLAYANDPARK.COM



UPRIGHT BROWN ACCENT SCOTCH DECK BROWN PLASTIC CHARI REUSE HDPE SKY BLUE HDPE-C SB/WHI SHADE N/A ROOF CHARI/SCOTCH CABLE BLACK MAX/APEX CHARI REUSE

HOOGLAND PARK

ZEELAND, MICHIGAN

733-172279

PLEASE NOTE: RENDERINGS ARE FOR VISUAL PURPOSES ONLY. ANY PRODUCTS AND/OR SITE DETAILS HEREIN MAYBE SUBJECT TO CHANGE WITHOUT NOTICE.



544 CHESTNUT ST.
 CHATTANOOGA, TN 37402
800.727.1907
PLAYANDPARK.COM



UPRIGHT BROWN

ACCENT SCOTCH

DECK BROWN

PLASTIC CHARI REUSE

HDPE SKY BLUE

HDPE2C SB/WHI

SHADE N/A

ROOF CHARI/SCOTCH

CABLE BLACK

MAX/APEX CHARI REUSE

HOOGLAND PARK ZEELAND, MICHIGAN

733-172279

PLEASE NOTE: RENDERINGS ARE FOR VISUAL PURPOSES ONLY. ANY PRODUCTS AND/OR SITE DETAILS HEREIN MAYBE SUBJECT TO CHANGE WITHOUT NOTICE.

**play&park
structures**
A PLAYCORE Company

544 CHESTNUT ST.
CHATTANOOGA, TN 37402
800.727.1907
PLAYANDPARK.COM



UPRIGHT BROWN ACCENT SCOTCH DECK BROWN PLASTIC CHAIR REUSE HDPE SKY BLUE HDPE-C SB/WHI SHADE N/A ROOF CHAIR/SCOTCH CABLE BLACK MAX/APEX CHAIR REUSE

HOOGLAND PARK
ZEELAND, MICHIGAN

733-172279

PLEASE NOTE: RENDERINGS ARE FOR VISUAL PURPOSES ONLY. ANY PRODUCTS AND/OR SITE DETAILS HEREIN MAYBE SUBJECT TO CHANGE WITHOUT NOTICE.

play&park
structures
AT PLAYCORE Company

544 CHESTNUT ST.
 CHATTANOOGA, TN 37402
800.727.1907
PLAYANDPARK.COM



UPRIGHT BROWN ACCENT SCOTCH DECK BROWN PLASTIC CHARI REUSE HDPE SKY BLUE HDPE C SB/WHI SHADE N/A ROOF CHARI/SCOTCH CABLE BLACK MAX/APEX CHARI REUSE

HOOGLAND PARK
ZEELAND, MICHIGAN

733-172279

PLEASE NOTE: RENDERINGS ARE FOR VISUAL PURPOSES ONLY. ANY PRODUCTS AND/OR SITE DETAILS HEREIN MAYBE SUBJECT TO CHANGE WITHOUT NOTICE.

play&park
structures
A PLAYCORE Company

544 CHESTNUT ST.
 CHATTANOOGA, TN 37402
800.727.1907
PLAYANDPARK.COM



UPRIGHT BROWN ACCENT SCOTCH DECK BROWN PLASTIC CHAIR REUSE HDPE SKY BLUE HDPE-C SB/WHI SHADE N/A ROOF CHAIR/SCOTCH CABLE BLACK MAX/APEX CHAIR REUSE

HOOGLAND PARK
ZEELAND, MICHIGAN

733-172279

PLEASE NOTE: RENDERINGS ARE FOR VISUAL PURPOSES ONLY. ANY PRODUCTS AND/OR SITE DETAILS HEREIN MAYBE SUBJECT TO CHANGE WITHOUT NOTICE.

play&park
structures
AT PLAYCORE Company

544 CHESTNUT ST.
 CHATTANOOGA, TN 37402
800.727.1907
PLAYANDPARK.COM



UPRIGHT BROWN ACCENT SCOTCH DECK BROWN PLASTIC CHAIR REUSE HDPE SKY BLUE HDPE-C SB/WHI SHADE N/A ROOF CHAIR/SCOTCH CABLE BLACK MAX/APEX CHAIR REUSE

HOOGLAND PARK
ZEELAND, MICHIGAN

733-172279

PLEASE NOTE: RENDERINGS ARE FOR VISUAL PURPOSES ONLY. ANY PRODUCTS AND/OR SITE DETAILS HEREIN MAYBE SUBJECT TO CHANGE WITHOUT NOTICE.

play&park
structures
A PLAYCORE Company

544 CHESTNUT ST.
 CHATTANOOGA, TN 37402
800.727.1907
PLAYANDPARK.COM



UPRIGHT BROWN ACCENT SCOTCH DECK BROWN PLASTIC CHAIR REUSE HDPE SKY BLUE HDPE C SB/WHI SHADE N/A ROOF CHAIR/SCOTCH CABLE BLACK MAX/APEX CHAIR REUSE

HOOGLAND PARK
ZEELAND, MICHIGAN

733-172279

PLEASE NOTE: RENDERINGS ARE FOR VISUAL PURPOSES ONLY. ANY PRODUCTS AND/OR SITE DETAILS HEREIN MAYBE SUBJECT TO CHANGE WITHOUT NOTICE.



544 CHESTNUT ST.
 CHATTANOOGA, TN 37402
800.727.1907
PLAYANDPARK.COM



UPRIGHT BROWN ACCENT SCOTCH DECK BROWN PLASTIC CHAIR REUSE HDPE SKY BLUE HDPE/C SB/WHI SHADE N/A ROOF CHAIR/SCOTCH CABLE BLACK MAX/APEX CHAIR REUSE

HOOGLAND PARK
ZEELAND, MICHIGAN

733-172279

PLEASE NOTE: RENDERINGS ARE FOR VISUAL PURPOSES ONLY. ANY PRODUCTS AND/OR SITE DETAILS HEREIN MAYBE SUBJECT TO CHANGE WITHOUT NOTICE.



544 CHESTNUT ST.
 CHATTANOOGA, TN 37402
800.727.1907
PLAYANDPARK.COM



UPRIGHT BROWN ACCENT SCOTCH DECK BROWN PLASTIC CHARI REUSE HDPE SKY BLUE HDPEc Sbj/WHI SHADE N/A ROOF CHARI/SCOTCH CABLE BLACK MAX/APEX CHARI REUSE

HOOGLAND PARK
ZEELAND, MICHIGAN

733-172279

PLEASE NOTE: RENDERINGS ARE FOR VISUAL PURPOSES ONLY. ANY PRODUCTS AND/OR SITE DETAILS HEREIN MAYBE SUBJECT TO CHANGE WITHOUT NOTICE.

play&park
structures
A PLAYCORE Company

544 CHESTNUT ST.
 CHATTANOOGA, TN 37402
800.727.1907
PLAYANDPARK.COM



UPRIGHT BROWN ACCENT SCOTCH DECK BROWN PLASTIC CHAIR REUSE HDPE SKY BLUE HDPE/C SB/WHI SHADE N/A ROOF CHAIR/SCOTCH CABLE BLACK MAX/APEX CHAIR REUSE

HOOGLAND PARK
ZEELAND, MICHIGAN

733-172279

PLEASE NOTE: RENDERINGS ARE FOR VISUAL PURPOSES ONLY. ANY PRODUCTS AND/OR SITE DETAILS HEREIN MAYBE SUBJECT TO CHANGE WITHOUT NOTICE.

play&park
structures
AT PLAYCORE Company

544 CHESTNUT ST.
 CHATTANOOGA, TN 37402
800.727.1907
PLAYANDPARK.COM



UPRIGHT BROWN ACCENT SCOTCH DECK BROWN PLASTIC CHAIR REUSE HDPE SKY BLUE HDPE2C SB/WHI SHADE N/A ROOF CHAIR/SCOTCH CABLE BLACK MAX/APEX CHAIR REUSE

HOOGLAND PARK
ZEELAND, MICHIGAN

733-172279

PLEASE NOTE: RENDERINGS ARE FOR VISUAL PURPOSES ONLY. ANY PRODUCTS AND/OR SITE DETAILS HEREIN MAYBE SUBJECT TO CHANGE WITHOUT NOTICE.



544 CHESTNUT ST.
 CHATTANOOGA, TN 37402
800.727.1907
PLAYANDPARK.COM

Hoogland Park
250 S Peck St
Zeeland, MI 49464

Lawton & Associates

This play equipment is recommended for children ages:
2-5 and 5-12

Minimum Area Required:
Per Arch. Plan

Scale: 3/16" = 1'-0"
This drawing can be scaled only when in an 24" x 36" format

Drawn By:
Chris Yates
Date:
11/5/24
Quote Number:
733-172279

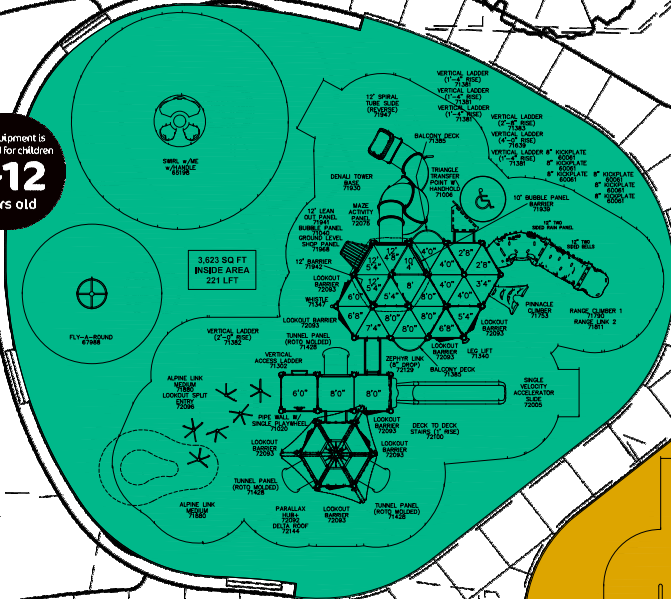
play&park
structures

A PLAYCORE COMPANY
544 Chestnut Street
Chattanooga, TN 37402
800-727-1907 / www.playandpark.com

User Capacity
240-280
Critical Fall Height
9'-0" / 8'-0" / 4'-0"

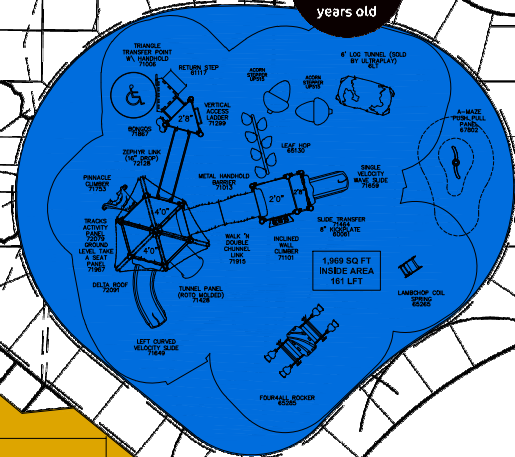


This equipment is designed for children
5-12
years old



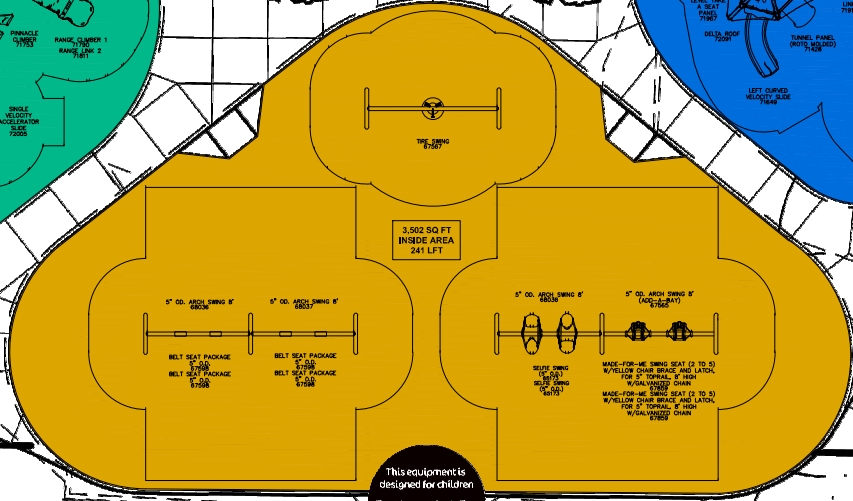
3,633 SQ FT
INSIDE AREA
221 LFT

This equipment is designed for children
2-5
years old



1,969 SQ FT
INSIDE AREA
161 LFT

This equipment is designed for children
2-5 or 5-12
years old



3,002 SQ FT
INSIDE AREA
241 LFT

97.92'

5.88' S 01'30'10" W
80° WALNUT
130.62'

Top View drawings and measurements are for overall site and structure appearance purposes. Top view should not be conceived as a construction detail; therefore, all measurements and slope requirements should be field verified prior to construction.
IMPORTANT: Never install play equipment over hard, unresilient surfaces such as asphalt, concrete, or compacted earth. It is the owner's responsibility to ensure the "minimum area required" contains an appropriate amount of resilient material to cushion accidental falls.



MCSA
GROUP, Inc.

Landscape Architects and Architects
EAST GRAND RAPIDS • MICHIGAN

Landscape Architecture
Park & Recreation Planning
Architecture • Urban Design
Sports Facility Planning

HOOGLAND PARK MASTER PLAN

ORDER OF MAGNITUDE COST ESTIMATE - January 2025

Description	Unit	No. of Units	Price	Extension
-------------	------	--------------	-------	-----------

General Conditions

Mobilization	LS	1	\$10,000.00	\$10,000.00
Insurance, Permits, and Bonds	LS	1	\$15,000.00	\$15,000.00
Layout and Staking	LS	1	\$10,000.00	\$10,000.00
Project Sign	LS	1	\$2,500.00	\$2,500.00
General Conditions (M, O & P@5%)	LS	1	\$57,115.00	\$57,115.00
Subtotal				\$94,615.00

Site Preparation and Removals

Soil Erosion, Sedimentation Control, Site Preparation and Grading	SY	4,858	\$10.00	\$48,580.00
Removals complete including surfacing, parking lot playground, restroom building	LS	1	\$40,000.00	\$40,000.00
Relocate existing stop sign	LS	1	\$250.00	\$250.00
Tree Removals	LS	1	\$5,000.00	\$5,000.00
Subtotal				\$93,830.00

Structures

Restroom Building	SF	324	\$500.00	\$162,000.00
Sanitary Line and Cleanouts	LF	37	\$120.00	\$4,440.00
Water Line and curb Stops	LF	97	\$80.00	\$7,760.00
Shade Shelter	LS	1	\$80,000.00	\$80,000.00
Subtotal				\$254,200.00

Site Construction

Bituminous Paving and Patching	SY	184	\$55.00	\$10,120.00
Seat Wall/Bench	LF	24	\$500.00	\$12,000.00
Concrete Curb and Gutter	LF	230	\$35.00	\$8,050.00
Straight Curb	LF	176	\$28.00	\$4,928.00
Concrete Sidewalk - 4" Depth	SF	7,656	\$8.00	\$61,248.00
Concrete Sidewalk - 6" Depth (Ramp)	SF	186	\$10.00	\$1,860.00
Pipe Handrails	LF	65	\$200.00	\$13,000.00
Concrete wall	LF	66	\$250.00	\$16,500.00
Fencing with Mow Band	LF	332	\$80.00	\$26,560.00
Tactile Warning Pavers	SF	14	\$35.00	\$490.00
Barrier Free Sign	EA	2	\$500.00	\$1,000.00
Subtotal				\$155,756.00



MCSA
GROUP, Inc.

Landscape Architects and Architects
EAST GRAND RAPIDS • MICHIGAN

Landscape Architecture
Park & Recreation Planning
Architecture • Urban Design
Sports Facility Planning

Playground

Turned Down Edge/ Flush Curb	LF	338	\$30.00	\$10,140.00
Straight Curb	LF	124	\$28.00	\$3,472.00
Seat Wall/Bench	LF	134	\$500.00	\$67,000.00
Poured in Place Surfacing	SF	1,999	\$25.00	\$49,975.00
Engineered Wood Fiber Surfacing	SY	472	\$15.00	\$7,080.00
Playground Equipment Complete (Midwest)	LS	1	\$319,000.00	\$319,000.00
Accessible Ramp	EA	2	\$500.00	\$1,000.00

Subtotal

\$457,667.00

Signage

Hoogland Plaque	EA	1	\$6,000.00	\$6,000.00
Entrance Sign	LS	1	\$10,000.00	\$10,000.00

Subtotal

\$16,000.00

Site Amenities

Benches	EA	1	\$2,500.00	\$2,500.00
Litter Receptacles	EA	2	\$1,500.00	\$3,000.00
Picnic Tables Rectangular at Shelter	EA	4	\$2,500.00	\$10,000.00
Bike Rack	EA	2	\$3,000.00	\$6,000.00

Subtotal

\$21,500.00

Storm Water Utilities

Leaching basins	EA	1	\$5,000.00	\$5,000.00
Yard drains	EA	2	\$3,000.00	\$6,000.00
4" Perforated pipe	LF	525	\$10.00	\$5,250.00
6" Perforated pipe	LF	650	\$15.00	\$9,750.00
6" Drain Pipe	LF	33	\$25.00	\$825.00
8" Drain Pipe	LF	266	\$85.00	\$22,610.00

Subtotal

\$49,435.00

Lighting and Electrical

Site Lights	EA	2	\$4,000.00	\$8,000.00
Shelter Light and outlets	LS	1	\$4,000.00	\$4,000.00
Electrical Distribution	LF	300	\$25.00	\$7,500.00

SUBTOTAL

\$19,500.00



MCSA
GROUP, Inc.

Landscape Architects and Architects
EAST GRAND RAPIDS • MICHIGAN

Landscape Architecture
Park & Recreation Planning
Architecture • Urban Design
Sports Facility Planning

Landscape Improvements

Deciduous Shade Trees	EA	14	\$750.00	\$10,500.00
Deciduous Ornamental Trees	EA	5	\$600.00	\$3,000.00
Evergreen Trees	EA	3	\$600.00	\$1,800.00
Lawn Seeding and 4" of Top Soil	SY	1,065	\$5.00	\$5,325.00
Native Seeding	SY	1,275	\$2.50	\$3,187.50
Shrub and Perennial Beds	EA	131	\$100.00	\$13,100.00

Subtotal

\$36,912.50

SUBTOTAL

\$1,199,415.50

Design and Construction Contingences @ 10%

\$119,941.55

Professional Fees and Expenses @ 8%

\$105,548.56

GRAND TOTAL

\$1,424,905.61

Evaluations of the Project Budget and Estimates of Construction Cost prepared by M.C. Smith Associates represents their judgment as design professionals. It is recognized, however, M.C. Smith Associates has no control over the cost of labor, materials or equipment, nor a contractor's methods of determining bid prices, or over competitive bidding, or market conditions. Accordingly, M.C. Smith Associates cannot and does not warrant or represent that bids or negotiated prices will not vary from the Project Budget or from any estimate of construction cost or evaluation prepared by M.C. Smith Associates.



21 South Elm Street • Zeeland, Michigan 49464 • (616) 772-6400 • FAX (616) 772-5352

INTEROFFICE MEMORANDUM

TO: Cemetery and Parks Commission
 FROM: Kevin Plockmeyer, ACM of City Services/Infrastructure and Finance
 SUBJECT: Fiscal Year 2025 – 2026 Rates and Fees
 DATE: January 15, 2025

During the winter months, we generally like to look at the various rates and fees that are charged by the Cemetery and Parks. We like to do this in the winter, so any proposed changes can be incorporated into the budget for City Council’s consideration. Below are the various rates and fees charged by our Cemetery and Parks Department:

CEMETERY		<u>Resident</u>	<u>Non-Resident</u>
	Building Rental	150.00	150.00
	Burials		
	Adult Burial	450.00	800.00
	Baby Burial in Adult Plot	200.00	300.00
	Babyland Grave & Burial	150.00	800.00
	Burial Cremains	150.00	225.00
	Burials after 3:30 PM (Additional fee)	100.00	100.00
	Weekend Burials (Additional fee)	200.00	200.00
	Disinterment		
	Disinterment	500.00	750.00
	Disinterment & Reinterment	750.00	1,125.00
	Disinterment of Cremains	300.00	450.00
	2nd Opening - Weekday	50.00	50.00
	2nd Opening - Weekend	100.00	100.00
	Grave Site		
	Adult Grave	350.00	2,000.00
	Columbarium Niche	550.00	1,700.00
	Transfer Fee	25.00	25.00



21 South Elm Street • Zeeland, Michigan 49464 • (616) 772-6400 • FAX (616) 772-5352

PARKS		
Lawrence Park - Per Day		
	Pavilion Rent	150.00
	Bowl Rent	150.00
	Pavilion & Bowl Combined Rent	300.00
	Security Deposit	Equal to Rental Fee
Vande Luyster Square - Per Day		
	Gazebo Rent	35.00
	Security Deposit	Equal to Rental Fee
Note:	Non profits charged 50% of listed fee	
	City Employees charged rent at 50% public fee	
	Security Deposits not waived or discounted	

As staff, we are not recommending making any changes, but we want feedback from the commission prior to incorporating this into the budget. We welcome your feedback and look forward to the discussion on Wednesday.

Kevin Plockmeyer, ACM of City Services/Infrastructure and Finance



21 South Elm Street • Zeeland, Michigan 49464 • (616) 772-6400 • FAX (616) 772-5352

INTEROFFICE MEMORANDUM

TO: Cemetery and Parks Commission
FROM: Kevin Plockmeyer, ACM of City Services/Infrastructure and Finance
SUBJECT: Other Items Agenda
DATE: January 15, 2025

- A. Burial Report since December 6, 2024
 - a. Burials
 - i. 5 at Lincoln – 2 Residents and 3 Non-Residents
 - ii. 0 at Felch – 0 Residents and 0 Non-Residents
 - b. Sales
 - i. 1 at Lincoln – 1 Resident and 0 Non-Residents
 - ii. 0 at Felch – 0 Residents and 0 Non-Residents
 - c. Transfers – 0
 - d. Sale Back to City – 0

- B. Public Input - Nothing Noteworthy

Kevin Plockmeyer, ACM of City Services/Infrastructure and Finance