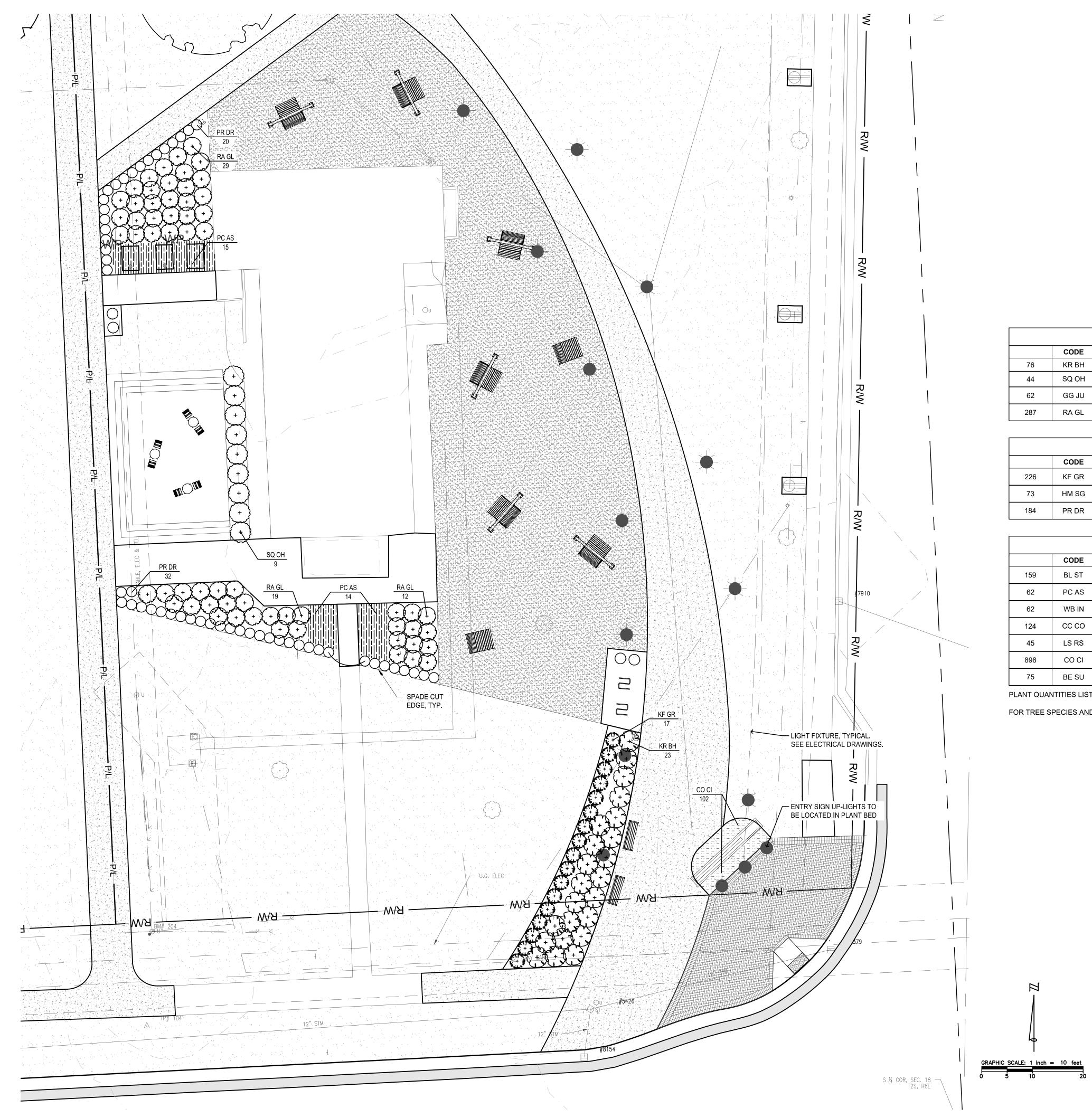


PLA	NTIN	G NOTES:					_		٦L	- M		
			ECTOR'S REVIEW PRIOR TO INSTALLATION R SHALL CORRECT ANY DEFICIENCIES FOL	-								R
			EVENT THAT PLANT MATERIALS SPECIFIE		,			AR		ENGINEEF -ADVISORS		NERS
	IFY THAT ALL F		AND PLANT QUANTITIES DELIVERED TO TH	IE SITE MATCH W	HAT IS INDICATE	ED ON THE						
PRO HEA	PROTECT ALL PLANT MATERIAL DURING DELIVERY TO PREVENT DAMAGE TO ROOT BALLS, TRUNKS, BRANCHES AND THE DESICCATION OF LEAVES. PROTECT ALL PLANT MATERIAL DURING SHIPPING WITH SHADE CLOTH OR SHIP WITH ENCLOSED TRANSPORT. MAINTAIN PROTECTIONS AND HEALTH OF PLANT MATERIAL STORED ON SITE. HANDLE ALL TREES WITH NYLON STRAPS. NO CHAINS OR CABLES WILL BE ALLOWED. REMOVE UNACCEPTABLE PLANT MATERIAL IMMEDIATELY FROM THE SITE.											
CRO	 ALL PLANT MATERIAL IMMEDIATELY FROM THE SITE. ALL PLANT MATERIAL SHALL BE NURSERY GROWN, WELL FORMED, TRUE TO SPECIES, HARDENED OFF WITH VIGOROUS ROOT SYSTEMS, FULL CROWN AND CANOPIES, AND FREE FROM DISEASE, PESTS AND INSECTS, AND DEFECTS SUCH AS KNOTS, SUN SCALD, WINDBURN, LEAF DIS-COLORATION, IRREGULAR BRANCHING OR INJURIES. 											
6. ALL	DIS-COLORATION, IRREGULAR BRANCHING OR INJURIES. 6. ALL ROOT BALLS SHALL CONFORM TO THE SIZE STANDARDS SET FORTH IN 'AMERICAN STANDARDS FOR NURSERY STOCK'.											
			TO THE REVIEW OF THE OWNER BEFORE,									
			NT SPECIFIED TO THE OWNER FOR COMP									
ADE DRA	QUATELY DRA	IN SHALL BE FURTHER EXCAVATED TO A	OR TO PLANTING, TO ASSURE PROPER SOI DEPTH SUFFICIENT FOR DRAINAGE TO OC R PLANT MATERIAL LOSS DUE TO IMPROPE O ADDITIONAL COST TO OWNER.	CUR AND/OR BA	CKFILLED WITH S	SUITABLE						
STAI AES	NDARDS OF TH THETICALLY AI	E AREA TO ASSURE COMPLETE SURVIVA	ERIAL, SHALL BE PLANTED IN A PROFESSI BILITY OF ALL INSTALLED PLANT MATERIA L REFER TO THE PLANTING DETAILS FOR I PLANTING REQUIREMENTS.	LS AS WELL AS 1	TO PROVIDE AN							
CON	ITRACTOR SHA		ARANCE ZONE) AROUND ALL ATRIUM DRA RAINS LOCATED IN LANDSCAPE BEDS. REF									
		TING AND LANDSCAPE DEBRIS FROM THI LANDSCAPE INSTALLATION.	E PROJECT SITE AND SWEEP AND WASH C	LEAN ALL PAVED	AND FINISHED S	SURFACES						
13. PLAN	NTING BEDS SH	HALL HAVE A MINIMUM OF 12" DEPTH. SEE	THIS SHEET FOR SOIL DEPTHS.									
14. PLAN	NTING BEDS SH	HALL HAVE A MINIMUM OF 3" DEPTH OF S	HREDDED HARDWOOD MULCH. SEE THIS S	HEET FOR ADDI	FIONAL INFORMA	TION.		/22				
15. ALL	PLANTING ARE	AS SHALL BE WEED FREE PRIOR TO PLA	NTING INSTALLATION.					2024/11 DATE				
			GED. CANTON TOWNSHIP TO PROPOSE FIN IDE ALL MATERIALS AND LABOR TO TRANS			ECT SITE AT						
LEG	END:											
	SI			E				BID SET				
DECORATIVE GRAVEL												
	1 NAL2	ROPOSED CONCRETE PAVEMENT, EE CIVIL DRAWINGS		REE				S R				
		ROPOSED ASPHALT PAVEMENT, EE CIVIL DRAWINGS										
PHASE TREE F	E 0 - POND PLACEMEI		NY PLANTS OR LAWN AREAS GED BY CONSTRUCTION OPI									
		PE ARCHITECT BEFORE INSTALLATION.					l					
QTY	CODE		LIST: DECIDUOUS TREES	INSTALL SIZE	CONDITION	SPACING						
4	RS MA	RED SUNSET MAPLE	Acer rubrum 'Red Sunset'	3" CAL.	B & B	PER PLAN						
1	FM MA	FREEMAN MAPLE	Acer x freemanii 'Armstrong'	3" CAL.	B & B	PER PLAN					I	
4	GN BL	RIVER BIRCH GINGKO, MALE	Betula nigra Gingko Biloba	8' HT 3" CAL.	B & B B & B	PER PLAN PER PLAN						Ļ
1	TU TR	TULIPTREE	Liriodendron tulipifera	3" CAL.	B & B	PER PLAN						
2 5	RE OA GS LD	NORTHERN RED OAK GREENSPIRE LINDEN	Quercus Rubra Tilia cordata 'Greenspire'	3" CAL. 3" CAL.	B & B B & B	PER PLAN						
5	GGED		ANT LIST: EVERGREEN TREES	J CAL.		F LIX F LAIN						
13	SK JU	GREEN COLUMNAR JUNIPER	Juniperus chinensis 'Hetzii Columnaris'	8' HT.	B & B	PER PLAN						
9	WB JU	WITCHITA BLUE JUNIPER	Juniperus scopulorum 'Witchita Blue'	8' HT.	B & B	PER PLAN			<u> </u>	Ш		
15	BL HS	BLACK HILLS SPRUCE	Picea glauca 'Densata'	8' HT.	B & B	PER PLAN			NSHIP	ASE		
8	ES WP	EASTERN WHITE PINE	Pinus strobus	8' HT.	B & B	PER PLAN				PHA		
			IST: ORNAMENTAL TREES			1			MO	GE F		
40	AB SB		LATIN NAME Amelanchier x grandifolia 'Autumn Brilliance'		CONDITION				Р Г	ĐĄ C		
12		AUTUMN BRILLIANCE SERVICEBERRY	-	2" CAL.	B & B	PER PLAN			ļΨ	VILL	JAN	
	EA RE		Cercis canadensis	2" CAL.	B&B			CM	CHART		CHIG	
5 FP RE FOREST PANSY REDBUD Cercis canadensis ' Forest Pansy' 2" CAL. B & B PER PLAN TREE QUANTITIES LISTED HEREIN REPRESENT PROJECT TOTALS, NOT SHEET TOTALS									Η Η	HILL	P, MI	LAN
IREE QU	ANTHES LIST	ου πεκείν κεγκεδεντ γκυject τοται	S, NUT SHET IVIALS			_					CANTON TOWNSHIP, MICHIGAN	PLANTING PLAN
								3ER	CANTON	CHERRY	TOW	ANTING
								T NUMBER :4-0020	Ş	Ψ	TON	ANT
						Ē		PROJECT 0133-24	U 0	С Т	CAN	PL/
								PR			1	

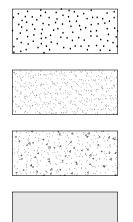
LAN	TING N	O T E S:							~ !		
			PECTOR'S REVIEW PRIOR TO INSTALLATION	-					JH	M	
-	-		R SHALL CORRECT ANY DEFICIENCIES FOU			-		AR			
APPROVE	D SUBSTITUTIONS	S. NO SUBSTITUTIONS FOR PLA G PRODUCTS, PLANT MATERIAL,	NT MATERIALS WILL BE ALLOWED WITHOU AND PLANT QUANTITIES DELIVERED TO TH	T PRIOR WRITTE	N APPROVAL BY	THE OWNER.			UHM-4	ADVISORS.COM	n
PROTECT HEALTH O	ALL PLANT MATE	RIAL DURING SHIPPING WITH SH	VENT DAMAGE TO ROOT BALLS, TRUNKS, E IADE CLOTH OR SHIP WITH ENCLOSED TRA LL TREES WITH NYLON STRAPS. NO CHAIN E SITE.	NSPORT. MAINT	AIN PROTECTION	NS AND					
CROWN A	ND CANOPIES, AN	,	ORMED, TRUE TO SPECIES, HARDENED OF AND INSECTS, AND DEFECTS SUCH AS KNO			,					
ALL ROOT	FBALLS SHALL CO	NFORM TO THE SIZE STANDARI	DS SET FORTH IN 'AMERICAN STANDARDS F	OR NURSERY S	OCK'.						
ALL PLAN	T MATERIAL DELI	/ERED TO THE SITE IS SUBJECT	TO THE REVIEW OF THE OWNER BEFORE,	DURING AND AF	ER INSTALLATIC	DN.					
PROVIDE	PLANT SAMPLES (OR PHOTOGRAPHS OF EACH PL	ANT SPECIFIED TO THE OWNER FOR COMP	LIANCE REVIEW	PRIOR TO INSTA	LLATION.					
ADEQUAT DRAINAGE	ELY DRAIN SHALL E GRAVEL. NO ALI	BE FURTHER EXCAVATED TO A LOWANCES SHALL BE MADE FO	OR TO PLANTING, TO ASSURE PROPER SOI DEPTH SUFFICIENT FOR DRAINAGE TO OC R PLANT MATERIAL LOSS DUE TO IMPROPE IO ADDITIONAL COST TO OWNER.	CUR AND/OR BA	CKFILLED WITH S	SUITABLE					
STANDAR AESTHETI	DS OF THE AREA	TO ASSURE COMPLETE SURVIV	TERIAL, SHALL BE PLANTED IN A PROFESSI ABILITY OF ALL INSTALLED PLANT MATERIA LL REFER TO THE PLANTING DETAILS FOR PLANTING REQUIREMENTS.	LS AS WELL AS	O PROVIDE AN						
CONTRAC		CH AREA AROUND ALL ATRIUM D	EARANCE ZONE) AROUND ALL ATRIUM DRA RAINS LOCATED IN LANDSCAPE BEDS. REF								
AFFECTE	D BY THE LANDSC	APE INSTALLATION.	E PROJECT SITE AND SWEEP AND WASH C	LEAN ALL PAVED	AND FINISHED S	SURFACES					
			E THIS SHEET FOR SOIL DEPTHS. HREDDED HARDWOOD MULCH. SEE THIS S								
		L BE WEED FREE PRIOR TO PLA				TION.		I/11/22 TE			
			GED. CANTON TOWNSHIP TO PROPOSE FIN	IAL LOCATION OU	JTSIDE OF PROJI	ECT SITE AT		2024 DAT			
LEGEND: SEEDED LAWN DECIDUOUS TREE DECORATIVE GRAVEL PROPOSED CONCRETE PAVEMENT, CONTRACT ANALYSIS								ISSUED FOR: BID SET REVISION DESCRIPTION			
	SEE CIVIL	DRAWINGS D ASPHALT PAVEMENT, DRAWINGS	ORNAMENTAL TF	REE							
HASE 0 - REE PLA	POND PROJ CEMENT IN I	JECT THAT ARE DAMA PHASE 1. TREE LOCATIONS THAT ARE TO HITECT BEFORE INSTALLATION.	NY PLANTS OR LAWN AREAS GED BY CONSTRUCTION OP BE REVIEWED AND	-							
QTY	CODE	COMMON NAME		INSTALL SIZE	CONDITION	SPACING					
	RS MA FM MA	RED SUNSET MAPLE	Acer rubrum 'Red Sunset' Acer x freemanii 'Armstrong'	3" CAL. 3" CAL.	B & B B & B	PER PLAN PER PLAN					
4	RIBI	RIVER BIRCH	Betula nigra	8' HT	B & B	PER PLAN					
	GN BL		Gingko Biloba Liriodendron tulipifera	3" CAL.	B&B	PER PLAN					
	TU TR RE OA	TULIPTREE NORTHERN RED OAK	Quercus Rubra	3" CAL. 3" CAL.	B & B B & B	PER PLAN PER PLAN					
5	GS LD	GREENSPIRE LINDEN	Tilia cordata 'Greenspire'	3" CAL.	B & B	PER PLAN					
			ANT LIST: EVERGREEN TREES								
			Juniperus chinensis 'Hetzii Columnaris'	8' HT.	B & B	PER PLAN				~	
	WB JU NBL HS	WITCHITA BLUE JUNIPER BLACK HILLS SPRUCE	Juniperus scopulorum 'Witchita Blue' Picea glauca 'Densata'	8' HT. 8' HT.	B & B B & B	PER PLAN			NSHIP	SП	
	ES WP	EASTERN WHITE PINE	Pinus strobus	8' HT.	B & B	PER PLAN			NSI	ΗĂ	
	-				•				Ň		
	CODE			INSTALL SIZE	CONDITION	SPACING			TOW	GЕ	
12	AB SB AUTUM	IN BRILLIANCE SERVICEBERRY	Amelanchier x grandifolia 'Autumn Brilliance'	2" CAL.	B & B	PER PLAN				LA	
1	EA RE	EASTERN REDBUD	Cercis canadensis	2" CAL.	B & B	PER PLAN			RTER		
5	FP RE	FOREST PANSY REDBUD	Cercis canadensis ' Forest Pansy'	2" CAL.	B & B	PER PLAN		PM	AF	LL MICF	
		IN REPRESENT PROJECT TOTAL		2 OAL.				MBER PN	NTON CHA	ON TOWNSHIP MICHIGAN	



L-101







	PLANT LIST: SHRUBS											
	CODE	COMMON NAME	LATIN NAME	INSTALL SIZE	CONDITION	SPACING						
76	KR BH	KODIAK RED BUSH HONEYSUCKLE	Diervilla splendens 'Kodiak Red'	24" HT.	CONT.	48" O.C.						
44	SQ OH	SNOW QUEEN OAKLEAF HYDRANGEA	Hydrangea quercifolia 'Snow Queen'	30" HT.	CONT.	48" O.C.						
62	GG JU	GREY GUARDIAN JUNIPER	Juniperus virginiana 'Greguard'	24" HT.	CONT.	60" O.C.						
287	RA GL	GRO-LOW FRAGRANT SUMAC	Rhus aromatica 'Gro-low'	24" HT.	CONT.	36" O.C.						

	PLANT LIST: ORNAMENTAL GRASSES										
	CODE	COMMON NAME	LATIN NAME	INSTALL SIZE	CONDITION	SPACING					
226	KF GR	KARL FOERSTER GRASS	Calamagrostis x acutiflora 'Karl Foerster'	36" HT.	CONT.	30" O.C.					
73	HM SG	HEAVY METAL SWITCHGRASS	Panicum virgatum 'Heavy Metal'	36" HT.	CONT.	48" O.C.					
184	PR DR	PRAIRIE DROPSEED	Sporobolus heterolepis	12" HT.	CONT.	24" O.C.					

		PLA	NT LIST: PERENNIALS			
	CODE	COMMON NAME	LATIN NAME	INSTALL SIZE	CONDITION	SPACING
159	BL ST	BLUE ICE BLUE STAR	Amsonia 'Blue Ice'	#1 GAL.	CONT.	18" O.C.
62	PC AS	PINK CRUSH ASTER	Aster novae-angliae 'Pink Crush'	#1 GAL.	CONT.	36" O.C.
62	WB IN	WILD BLUE INDIGO	Baptisia australis	#1 GAL.	CONT.	48" O.C.
124	CC CO	CORAL CRAZE CONEFLOWER	Echinacea 'Coral Craze'	#1 GAL.	CONT.	30" O.C.
45	LS RS	LITTLE SPIRE RUSSIAN SAGE	Perovskia atrip. 'Little Spire'	#1 GAL.	CONT.	30" O.C.
898	CO CI	COMMON CINQUEFOIL	Potentilla simplex	#1 GAL.	CONT.	12" O.C.
75	BE SU	BLACK EYED SUSAN	Rudbeckia hirta	#1 GAL.	CONT.	30" O.C.

PLANT QUANTITIES LISTED HEREIN REPRESENT PROJECT TOTALS, NOT SHEET TOTALS

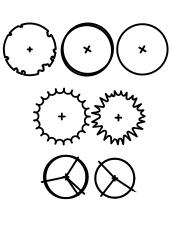
LEGEND:

SEEDED LAWN

DECORATIVE GRAVEL

PROPOSED CONCRETE PAVEMENT, SEE CIVIL DRAWINGS

PROPOSED ASPHALT PAVEMENT, SEE CIVIL DRAWINGS

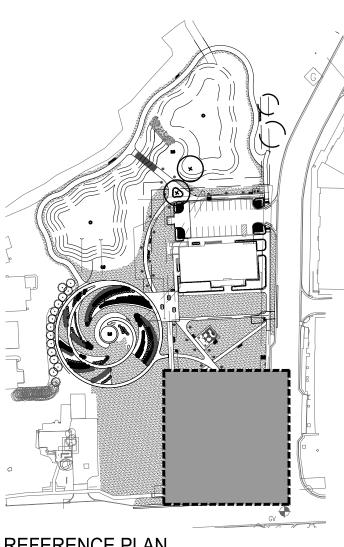


DECIDUOUS TREE



ORNAMENTAL TREE

FOR TREE SPECIES AND QUANTITY INFORMATION, REFER TO SHEET L-101 - PLANTING PLAN.

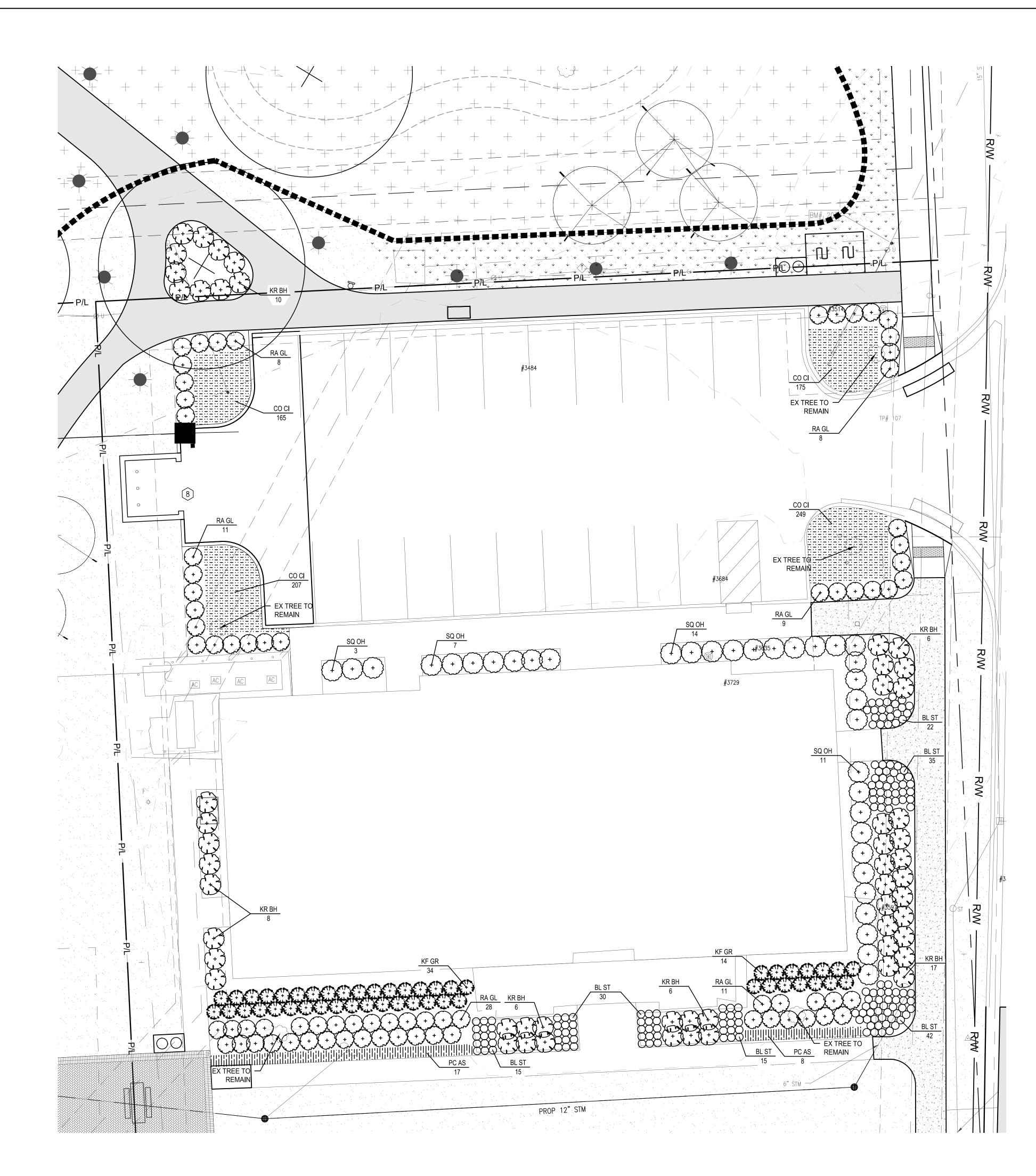


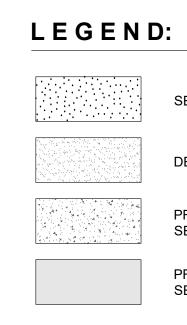
REFERENCE PLAN



	PROJECT NUMBER PM	ISSUED FOR: BID SET 2024/11/22	1/22
	0133-24-0020 CM	REVISION DESCRIPTION DATE	
Ŀ	CANTON CHARTER TOWNSHIP		
-1(CHERRY HILL VILLAGE PHASE 1		
)2	CANTON TOWNSHIP, MICHIGAN		
	PLANTING PLAN		
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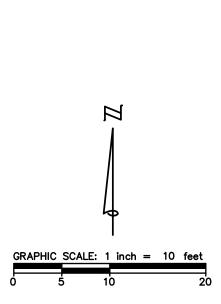


	PLANT LIST: SHRUBS											
	CODE	COMMON NAME	LATIN NAME	INSTALL SIZE	CONDITION	SPACING						
76	KR BH	KODIAK RED BUSH HONEYSUCKLE	Diervilla splendens 'Kodiak Red'	24" HT.	CONT.	48" O.C.						
44	SQ OH	SNOW QUEEN OAKLEAF HYDRANGEA	Hydrangea quercifolia 'Snow Queen'	30" HT.	CONT.	48" O.C.						
62	GG JU	GREY GUARDIAN JUNIPER	Juniperus virginiana 'Greguard'	24" HT.	CONT.	60" O.C.						
287	RA GL	GRO-LOW FRAGRANT SUMAC	Rhus aromatica 'Gro-low'	24" HT.	CONT.	36" O.C.						

	PLANT LIST: ORNAMENTAL GRASSES										
	CODE	COMMON NAME	LATIN NAME	INSTALL SIZE	CONDITION	SPACING					
226	KF GR	KARL FOERSTER GRASS	Calamagrostis x acutiflora 'Karl Foerster'	36" HT.	CONT.	30" O.C.					
73	HM SG	HEAVY METAL SWITCHGRASS	Panicum virgatum 'Heavy Metal'	36" HT.	CONT.	48" O.C.					
184	PR DR	PRAIRIE DROPSEED	Sporobolus heterolepis	12" HT.	CONT.	24" O.C.					

		PLA	NT LIST: PERENNIALS			
	CODE	COMMON NAME	LATIN NAME	INSTALL SIZE	CONDITION	SPACING
159	BL ST	BLUE ICE BLUE STAR	Amsonia 'Blue Ice'	#1 GAL.	CONT.	18" O.C.
62	PC AS	PINK CRUSH ASTER	Aster novae-angliae 'Pink Crush'	#1 GAL.	CONT.	36" O.C.
62	WB IN	WILD BLUE INDIGO	Baptisia australis	#1 GAL.	CONT.	48" O.C.
124	сс со	CORAL CRAZE CONEFLOWER	Echinacea 'Coral Craze'	#1 GAL.	CONT.	30" O.C.
45	LS RS	LITTLE SPIRE RUSSIAN SAGE	Perovskia atrip. 'Little Spire'	#1 GAL.	CONT.	30" O.C.
898	CO CI	COMMON CINQUEFOIL	Potentilla simplex	#1 GAL.	CONT.	12" O.C.
75	BE SU	BLACK EYED SUSAN	Rudbeckia hirta	#1 GAL.	CONT.	30" O.C.

PLANT QUANTITIES LISTED HEREIN REPRESENT PROJECT TOTALS, NOT SHEET TOTALS

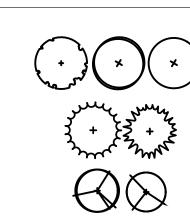


SEEDED LAWN

DECORATIVE GRAVEL

PROPOSED CONCRETE PAVEMENT, SEE CIVIL DRAWINGS

PROPOSED ASPHALT PAVEMENT, SEE CIVIL DRAWINGS



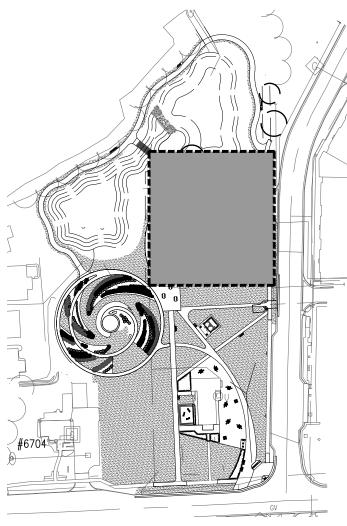
DECIDUOUS TREE



EVERGREEN TREE

ORNAMENTAL TREE

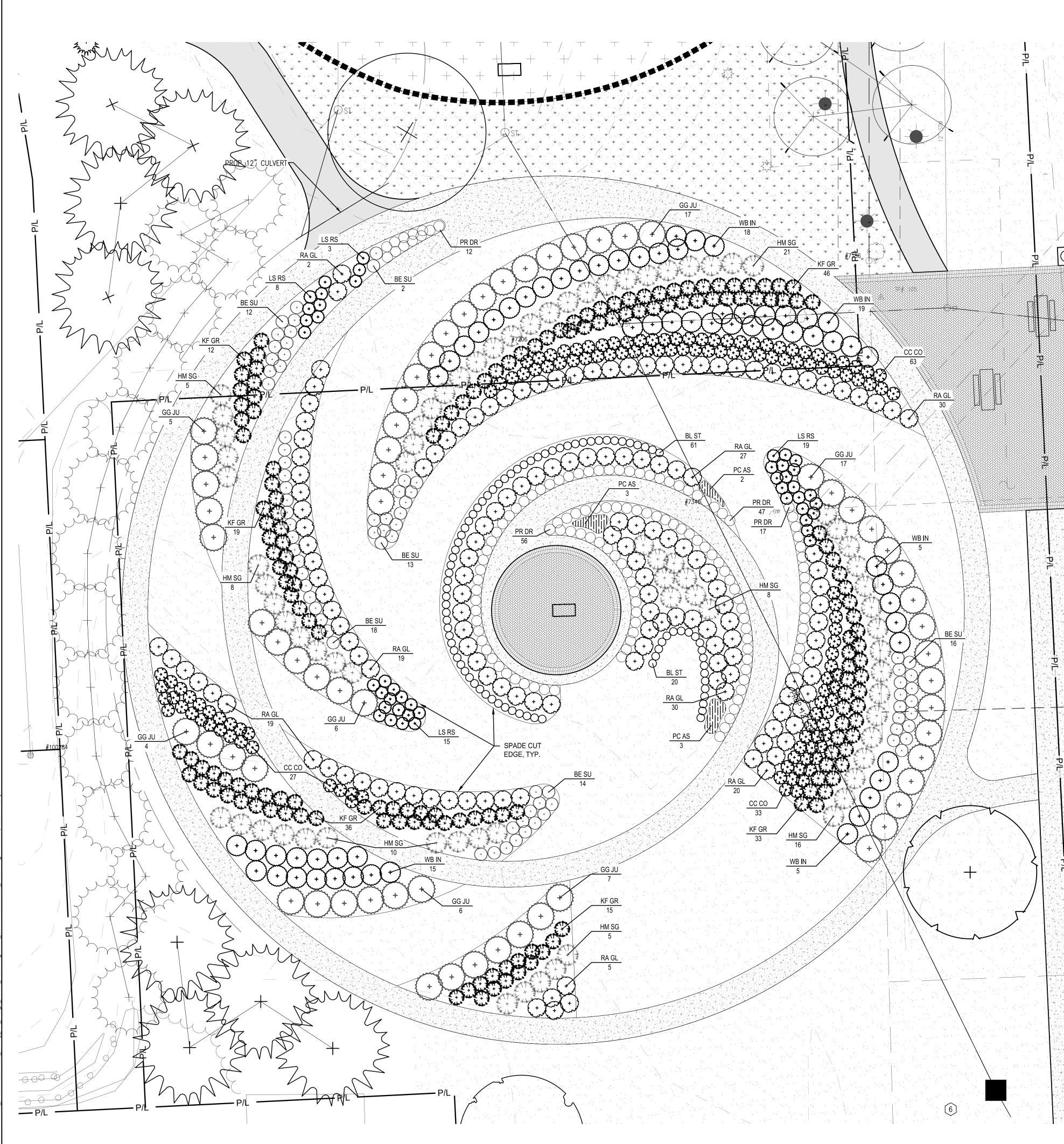
FOR TREE SPECIES AND QUANTITY INFORMATION, REFER TO SHEET L-101 - PLANTING PLAN.

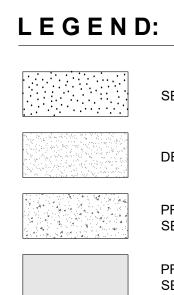


REFERENCE PLAN



	PROJECT NUMBER PM	ISSUED FOR: BID SET	2024/11/22	
	0133-24-0020 CM	REVISION DESCRIPTION	DATE	
L	CANTON CHARTER TOWNSHIP			
-1(CHERRY HILL VILLAGE PHASE 1			
)3	CANTON TOWNSHIP, MICHIGAN			
	PLANTING PLAN			
1				





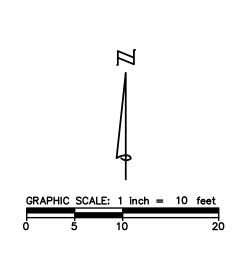
CODE	COMMON NAME	LATIN NAME	INSTALL SIZE	CONDITION	SPACING					
KR BH	KODIAK RED BUSH HONEYSUCKLE	Diervilla splendens 'Kodiak Red'	24" HT.	CONT.	48" O.C.					
SQ OH	SNOW QUEEN OAKLEAF HYDRANGEA	Hydrangea quercifolia 'Snow Queen'	30" HT.	CONT.	48" O.C.					
GG JU	GREY GUARDIAN JUNIPER	Juniperus virginiana 'Greguard'	24" HT.	CONT.	60" O.C.					
RA GL	GRO-LOW FRAGRANT SUMAC	Rhus aromatica 'Gro-low'	24" HT.	CONT.	36" O.C.					
	KR BH SQ OH GG JU	CODECOMMON NAMEKR BHKODIAK RED BUSH HONEYSUCKLESQ OHSNOW QUEEN OAKLEAF HYDRANGEAGG JUGREY GUARDIAN JUNIPER	CODECOMMON NAMELATIN NAMEKR BHKODIAK RED BUSH HONEYSUCKLEDiervilla splendens 'Kodiak Red'SQ OHSNOW QUEEN OAKLEAF HYDRANGEAHydrangea quercifolia 'Snow Queen'GG JUGREY GUARDIAN JUNIPERJuniperus virginiana 'Greguard'	CODECOMMON NAMELATIN NAMEINSTALL SIZEKR BHKODIAK RED BUSH HONEYSUCKLEDiervilla splendens 'Kodiak Red'24" HT.SQ OHSNOW QUEEN OAKLEAF HYDRANGEAHydrangea quercifolia 'Snow Queen'30" HT.GG JUGREY GUARDIAN JUNIPERJuniperus virginiana 'Greguard'24" HT.	KR BH KODIAK RED BUSH HONEYSUCKLE Diervilla splendens 'Kodiak Red' 24" HT. CONT. SQ OH SNOW QUEEN OAKLEAF HYDRANGEA Hydrangea quercifolia 'Snow Queen' 30" HT. CONT. GG JU GREY GUARDIAN JUNIPER Juniperus virginiana 'Greguard' 24" HT. CONT.					

	PLANT LIST: ORNAMENTAL GRASSES										
	CODE	COMMON NAME	LATIN NAME	INSTALL SIZE	CONDITION	SPACING					
226	KF GR	KARL FOERSTER GRASS	Calamagrostis x acutiflora 'Karl Foerster'	36" HT.	CONT.	30" O.C.					
73	HM SG	HEAVY METAL SWITCHGRASS	Panicum virgatum 'Heavy Metal'	36" HT.	CONT.	48" O.C.					
184	PR DR	PRAIRIE DROPSEED	Sporobolus heterolepis	12" HT.	CONT.	24" O.C.					

		PLA	NT LIST: PERENNIALS			
	CODE	COMMON NAME		INSTALL SIZE	CONDITION	SPACING
159	BL ST	BLUE ICE BLUE STAR	Amsonia 'Blue Ice'	#1 GAL.	CONT.	18" O.C.
62	PC AS	PINK CRUSH ASTER	Aster novae-angliae 'Pink Crush'	#1 GAL.	CONT.	36" O.C.
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45	LS RS	LITTLE SPIRE RUSSIAN SAGE	Perovskia atrip. 'Little Spire'	#1 GAL.	CONT.	30" O.C.
898	CO CI	COMMON CINQUEFOIL	Potentilla simplex	#1 GAL.	CONT.	12" O.C.
75	BE SU	BLACK EYED SUSAN	Rudbeckia hirta	#1 GAL.	CONT.	30" O.C.

PLANT QUANTITIES LISTED HEREIN REPRESENT PROJECT TOTALS, NOT SHEET TOTALS

FOR TREE SPECIES AND QUANTITY INFORMATION, REFER TO SHEET L-101 - PLANTING PLAN.

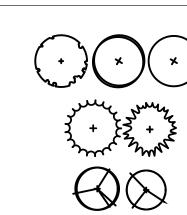


SEEDED LAWN

DECORATIVE GRAVEL

PROPOSED CONCRETE PAVEMENT, SEE CIVIL DRAWINGS

PROPOSED ASPHALT PAVEMENT, SEE CIVIL DRAWINGS



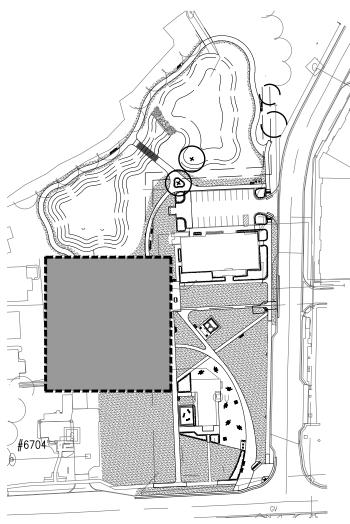
DECIDUOUS TREE



EVERGREEN TREE

ORNAMENTAL TREE

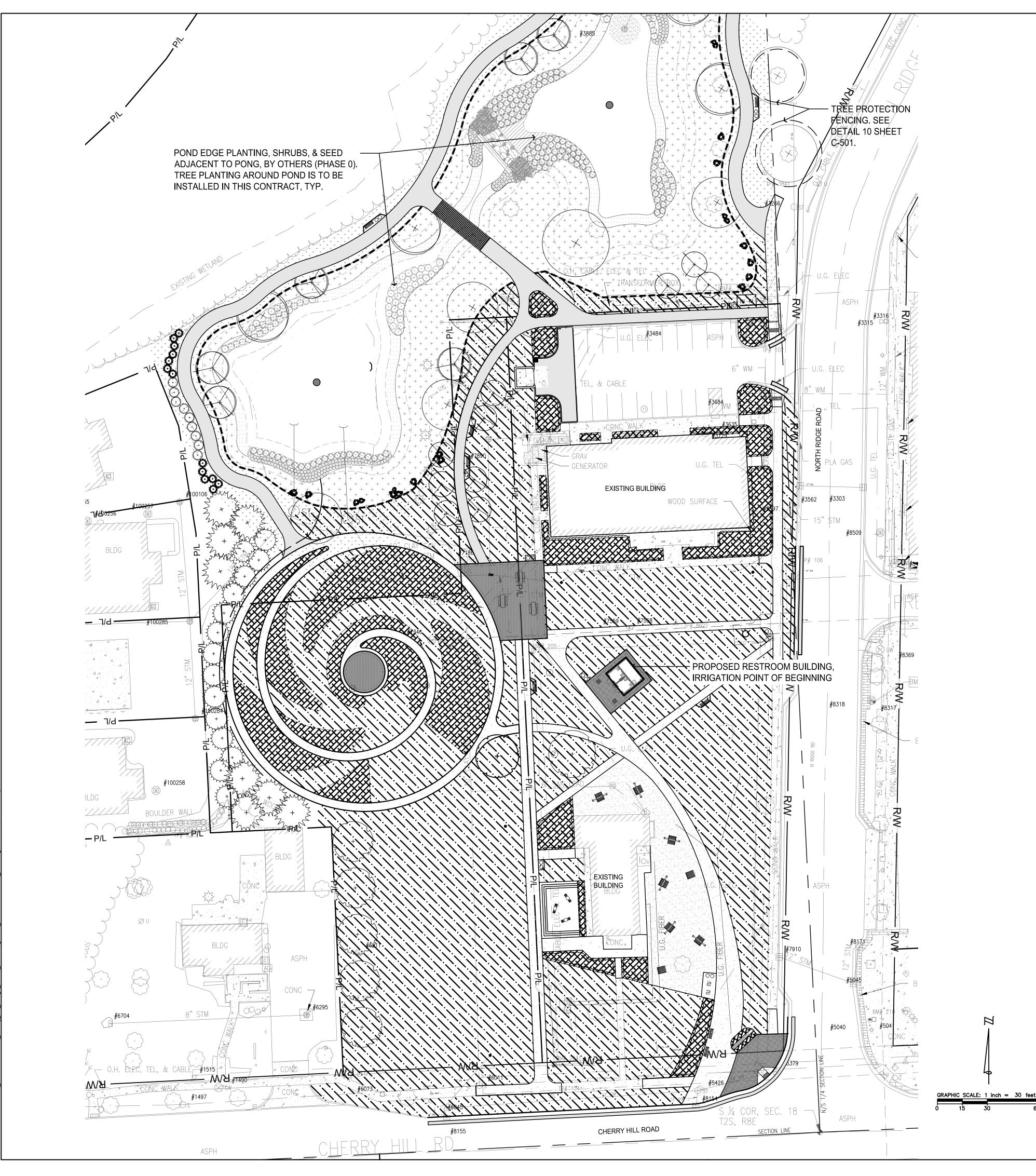
PLANT LIST SHRUBS



REFERENCE PLAN



	PROJECT NUMBER PM	ISSUED FOR: BID SET	2024/11/22	
	0133-24-0020 CM	REVISION DESCRIPTION	DATE	
L	CANTON CHARTER TOWNSHIP			
-1(CHERRY HILL VILLAGE PHASE 1			
)4	CANTON TOWNSHIP, MICHIGAN			
	PLANTING PLAN			
		NOT BE DI IDI ICATEN DISTRIBI ITEN OP DISCI OSEN V		CONCENT



LEGEND:

SEEDED LAWN
DECORATIVE GRAVE
PROPOSED CONCRE
PROPOSED ASPHALT SEE CIVIL DRAWINGS

IRRIGATION LEG

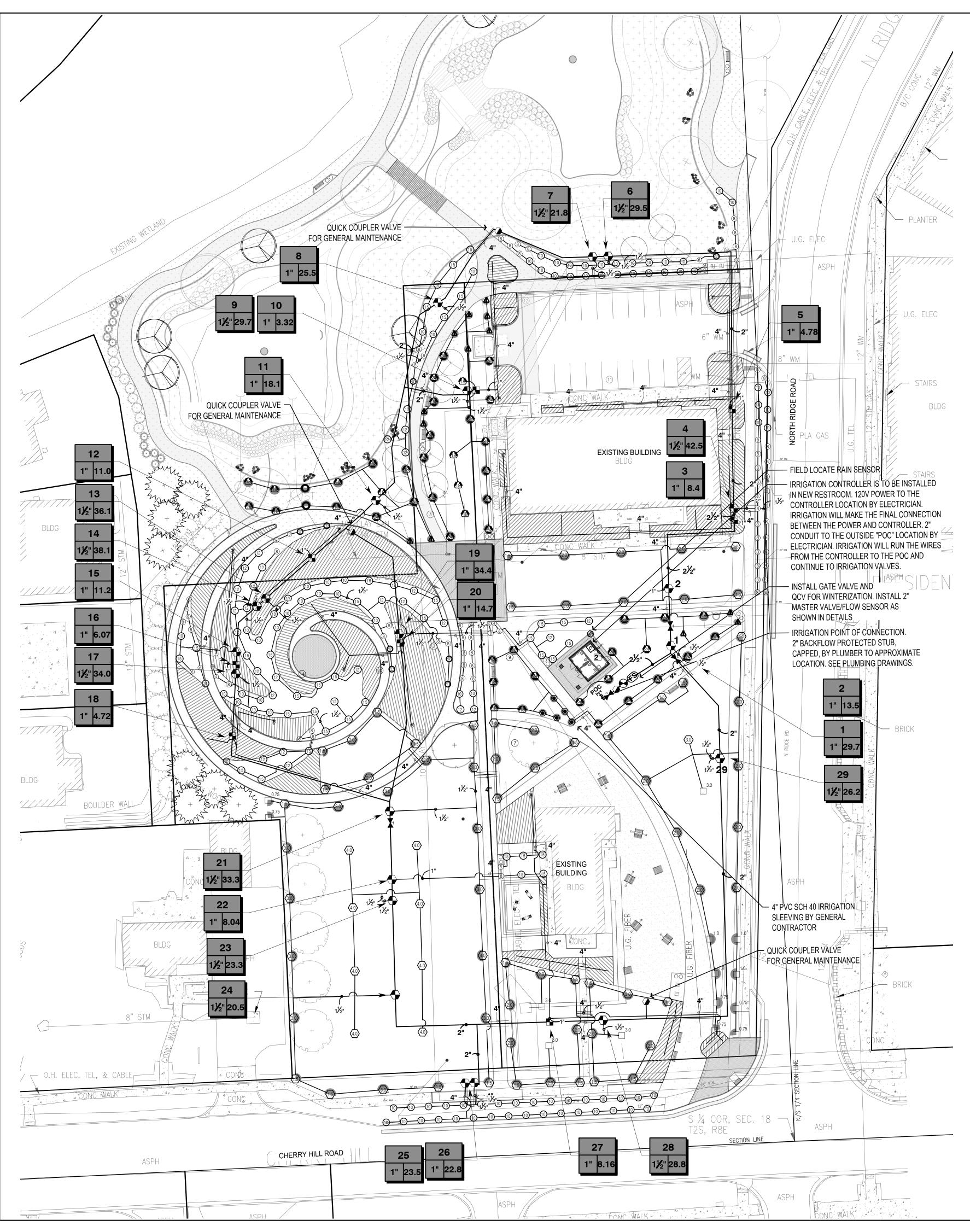
LAWN AREA. HEAD TO HEAD COVERA

PLANT BED AREA. HEAD TO HEAD COVERA

SHEET IS FOR REFEREN SEE SHEETS L-202 - L-20

IRRIGATION CONTROLS RESOURCE BUILDING TO BUILDING.

LE PAVEMENT, PAVEMENT, Letter and the second seco		_	RCHITECTS		RS PLAN	(R) INERS
BEND: RAGE.						
NCE ONLY. 04 FOR FULL IRRIGATION DESIGN. 5 TO BE RELOCATED FROM HUMAN 0 PROPOSED RESTROOM		ISSUED FOR: BID SET 2024/11/22 DEVISION DESCRIPTION DATE				
		PROJECT NUMBER PM	N CF	CHERRY HILL VILLAGE PHASE 1	CANTON TOWNSHIP, MICHIGAN	IRRIGATION PLAN
	Know what's below. Call before you dig.		L	-20)1	



IRRIGATION NOTES:

CONTRACTOR SHALL THESE NOTES AS A "SUMMARY" OF THE WRITTEN SPECIFICATIONS ISSUED FOR THE PROJECT. THESE NOTES WILL ASSIST THE CREW IN THE FIELD INSTALL THE SYSTEM CORRECTLY. THESE NOTES DO NOT RELIEVE THE CONTRACTOR FROM REQUIREMENTS OF THE SPECIFICATIONS

1. THE IRRIGATION SYSTEM DESIGN IS BASED ON <u>70</u> STATIC PRESSURE (PSI) AND MAXIMUM FLOW OF 40 GALLONS PER MINUTE(GPM). THE IRRIGATION CONTRACTOR SHALL VERIFY THE PRESSURE AND FLOW PRIOR TO COMMENCEMENT OF CONSTRUCTION. REPORT TO THE OWNER OR OWNER'S REPRESENTATIVE ANY DIFFERENCES BETWEEN THE PRESSURE INDICATED AND THE ACTUAL PRESSURE READING AT THE POINT OF CONNECTION.

2. THE PIPE ROUTING SHOWN IS DIAGRAMMATIC ONLY. ALL PIPING, VALVES, HEADS, ETC SHOWN WITHIN PAVED AREAS ARE FOR DESIGN CLARIFICATION ONLY. IRRIGATION CONTRACTOR WILL PROVIDE A COMPLETE IRRIGATION SYSTEM FOR THE AREAS SHOWN. FIELD LOCATIONS MAY VARY SLIGHTLY.

- 3. DO NOT WILLINGLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES, OR DIFFERENCES IN THE DIMENSIONS OF THE CONSTRUCTED AREAS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE IRRIGATION DESIGN OR CHANGES HAVE OCCURRED IN THE SITE PLAN. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE IRRIGATION DESIGNER AND THE GENERAL CONTRACTOR IMMEDIATELY. SHOULD THE IRRIGATION CONTRACTOR PROCEED WITH THE INSTALLATION WITHOUT NOTIFYING THE IRRIGATION DESIGNER AND THE GENERAL CONTRACTOR, THE IRRIGATION CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR ANY AND ALL REVISIONS / RECONSTRUCTION NECESSARY.
- 4. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF/HERSELF WITH THE SITE, ALL GRADE DIFFERENCES, LOCATIONS OF WALLS, AND INSTALLED UTILITIES. COORDINATE WORK WITH THE OWNER FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES UNDERNEATH PAVEMENT AND THROUGH WALLS.
- 5. DUE TO THE SCALE OF THE DRAWING, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, JOINTS, ETC. WHICH MAY BE REQUIRED. THE IRRIGATION CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL OF HIS/HER WORK AND PLAN HIS/HER WORK ACCORDINGLY, FURNISHING SUCH FITTINGS, ETC. AS MAY BE REQUIRED TO MEET SUCH CONDITIONS. ALL WORK SHALL BE INSTALLED IN SUCH A MANNER AS TO AVOID CONFLICTS BETWEEN IRRIGATION SYSTEM COMPONENTS, LANDSCAPE PLANTING, AND ARCHITECTURAL FEATURES.
- 6. FLUSH ALL LINES AND HEADS PRIOR TO INSTALLING NOZZLES. ADJUST NOZZLE SPRAY ARC AND RADIUS FOR OPTIMUM PERFORMANCE TO PREVENT OVERSPRAY ONTO PAVED SURFACES OR FACE OF BUILDING AS MUCH AS POSSIBLE TO FIT THE SITE CONDITIONS. THROTTLE FLOW CONTROL AT EACH VALVE FOR OPTIMUM OPERATING PRESSURE FOR EACH ZONE.
- 7. ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISHED GRADE OF THE AREA TO BE IRRIGATED UNLESS OTHERWISE NOTED.
- 8. WHEN VERTICAL OBSTRUCTIONS (POLES, SIGNS, TREES, HYDRANTS, ETC) INTERFERE WITH THE SPRAY PATTERN OF THE HEADS SO AS TO PREVENT PROPER COVERAGE, THE CONTRACTOR SHALL FIELD ADJUST THE SPRINKLER SYSTEM BY INSTALLING A QUARTER, THIRD, OR HALF CIRCLE HEAD AT THE SIDES OF THE OBSTRUCTION SO AS TO PROVIDE PROPER COVERAGE. ALL ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST.
- 9. USE TEFLON TAPE ON ALL MALE PIPE THREADS ON PVC PIPE, SWING JOINTS, AND VALVE ASSEMBLIES.
- 10. INSTALL VALVE BOXES 18-INCHES FROM AND PERPENDICULAR TO WALKS, CURBS, BUILDING, OR LANDSCAPE FEATURES. AT MULTIPLE VALVE BOX GROUPS, EACH BOX SHALL BE INSTALLED A MINIMUM OF 12-INCHES APART.
- 11. ALL VALVES SHALL BE PLACED IN VALVE BOXES AS SHOWN IN THE DETAILS. USE ONLY 2 WIRE CASED CONTROL WIRE AS DIRECTED BY RAINBIRD OR EQUAL AND ALL ELECTRICAL CONNECTIONS SHALL BE SEALED WITH WATERPROOF CONNECTORS. ANY SPLICES MADE IN THE FIELD WILL BE INSTALLED IN 6" VALVE BOXES.
- 12. 120-VOLT ELECTRICAL POWER SOURCE FOR THE CONTROLLER SHALL BE IDENTIFIED. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO MAKE THE FINAL CONNECTION FROM THE POWER PROVIDED TO THE CONTROLLER.
- 13. PROVIDE AS-BUILT DRAWINGS PROMPTLY UPON COMPLETION OF THE IRRIGATION INSTALLATION. 14. IRRIGATION CONTRACTOR SHALL PROVIDE THE FIRST WINTERIZATION, SPRING
- TURN ON HEAD ADJUSTMENTS AND CONTROLLER MAINTENANCE FOR THE FIRST YEAR. IT SHALL BE INCLUDED IN THE BID.

15. CONTRACTOR WILL ARRANGE INSPECTIONS FOR IRRIGATION AS NEEDED DURING THE COURSE OF CONSTRUCTION. ALL WIRING AND BACKFLOW PREVENTION TO BE PER LOCAL CODE.

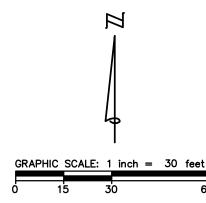
RRIGATION	NOTES:
Generated:	2024-11-11 22:17
P.O.C. NUMBER: 01 Water Source Information:	
FLOW AVAILABLE	
Point of Connection Size:	2"
Flow Available	77.18 GPM
PRESSURE AVAILABLE	
Static Pressure at POC:	70 PSI
Pressure Available:	70 PSI
DESIGN ANALYSIS	
Maximum Station Flow:	42.46 GPM
Flow Available at POC:	77.18 GPM
Residual Flow Available:	34.72 GPM
Design Pressure:	45 PSI
Friction Loss:	1.78 PSI
Fittings Loss:	0.18 PSI
Elevation Loss:	0 PSI
Loss through Valve:	5.5 PSI
Pressure Req. at Critical Static	on: 52.5 PSI
Loss for Fittings:	0.01 PSI
Loss for Main Line:	0.13 PSI
Loss for POC to Valve Elevation	on:0 PSI
Loss for Backflow:	0 PSI
Critical Station Pressure at PC	0C:52.6 PSI
Pressure Available:	70 PSI
Residual Pressure Available:	17.4 PSI

RRIGAI	ION LEGEND:
SYMBOL	MANUFACTURER/MODEL
EST_LCS_RCS_CST_SST	RAIN BIRD 1804 15 STRIP SERIES
$ \overset{(4)}{=} \overset{(6)}{=} \overset{(8)}{=} \overset{(10)}{=} \overset{(12)}{=} \overset{(6)}{=} \overset{(8)}{=} \overset{(10)}{=} $	RAIN BIRD 1804 ADJ NOZZLE
	RAIN BIRD R-VAN14 1804-SAM-P45

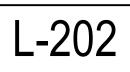
	RAIN BIRD 1804 ADJ NOZZLE
14 ADJ 14 F	RAIN BIRD R-VAN14 1804-SAM-P45
18 ADJ 18 F	RAIN BIRD R-VAN18 1804-SAM-P45
24 ADJ 24 F	RAIN BIRD R-VAN24 1804-SAM-P45
0.75	RAIN BIRD 3504-SAM, PC,FC 0.75
1.0	RAIN BIRD 3504-SAM, PC,FC 1.0
3.0	RAIN BIRD 3504-SAM, PC,FC 3.0
(1.5)	RAIN BIRD 5004-SAM-PC, FC ROTOR 1.5
2.0	RAIN BIRD 5004-SAM-PC, FC ROTOR 2.0
3.0	RAIN BIRD 5004-SAM-PC, FC ROTOR 3.0
4.0	RAIN BIRD 5004-SAM-PC, FC ROTOR 4.0
	RAIN BIRD XCZPGA-100-PRF DRIP VALVE 3-15GPM 1"
Ē	RAIN BIRD MDCFCAP FLUSH CAP
	AREA TO RECEIVE DRIPLINE RAIN BIRD XFCV-06-18
Θ	RAIN BIRD PEB GLOBE VALVE 2" MASTER VALVE
	RAIN BIRD PGA-IVM ANGLE 1"
\bullet	RAIN BIRD PGA-IVM ANGLE 1-1/2"
	RAIN BIRD 5-RC 1" QUICK COUPLER 1"
	SHUT OFF VALVE
С	RAIN BIRD ESP-2WIRE CONTROLLER
RS	RAIN BIRD RAIN SENSOR
FS	RAIN BIRD FS-150-P FLOW
POC 보	POINT OF CONNECTION 2"
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 1"
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 1 1/2"
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 2"
	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21 2"
	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21 2 1/2"
	PIPE SLEEVE: PVC SCHEDULE 40 2"
	PIPE SLEEVE: PVC SCHEDULE 40 4"
	Valve Callout
# •	Valve Number
#" #●-	Valve Flow

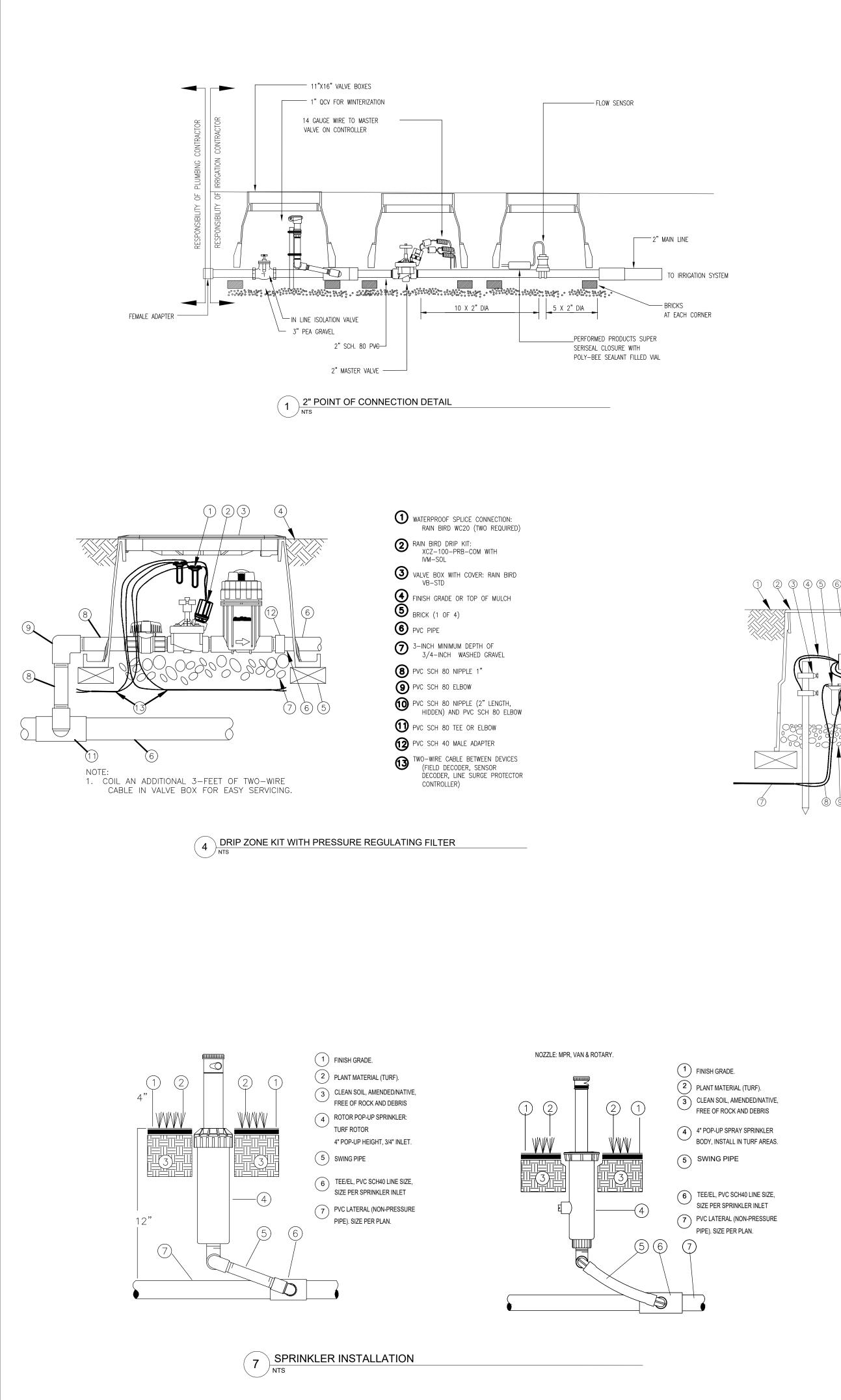
PROJECT NUMBER PM	ISSUED FOR: BID SET	2024/11/22		
0133-24-0020 CM	REVISION DESCRIPTION	DATE		
CANTON CHARTER TOWNSHIP	 			DI- CHITECTS
CHERRY HILL VILLAGE PHASE 1			-ADVISOR	
CANTON TOWNSHIP, MICHIGAN				RS PLA
IRRIGATION PLAN				®
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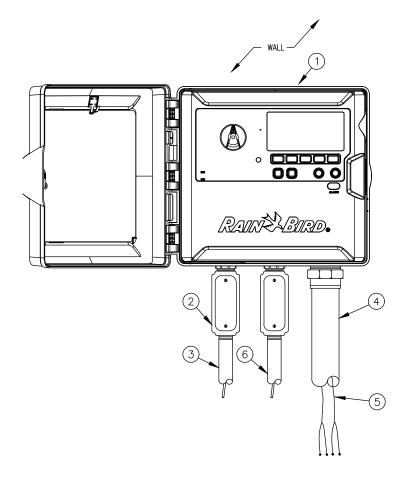
IRRIGATION IS DESIGNED FOR 45 GPM AT 55 PSI AT THE POINT OF CONNECTION.





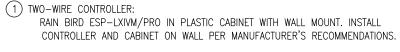








- 1 FINISH GRADE OR TOP OF MULCH
- 2 10-INCH VALVE BOX WITH COVER: RAIN BIRD VB-10RND
- (3) GROUNDING ROD: 10 OHMS OR LESS
- (4) GREEN/YELLOW WIRE FROM LSP-1TURFTURF TO GROUNDING ROD BRASS CLAMPS (1 OF 2)
- 5 DB SERIES WIRE CONNECTOR: RAIN BIRD DBTWC25 (1 OF 2)
- $\binom{6}{}$ LINE SURGE PROTECTOR: RAIN BIRD LSP-1TURF M10008
- (7) TWO-WIRE CABLE TO NEXT DEVICE (FIELD DECODER, SENSOR DECODER, LINE SURGE PROTECTOR OR ESP-LXD CONTROLLER)
- (8) COMMUNICATION WIRE TO NEXT DEVICE (FIELD DECODER, SENSOR DECODER, LINE SURGE PROTECTOR OR ESP-LXD CONTROLLER)
- 9 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEI
- 10 BRICK (1 OF 2)
- 11) BLUE WIRE FROM LSP-1TURF TO DB SERIES WIRE CONNECTOR



JUNCTION BOX

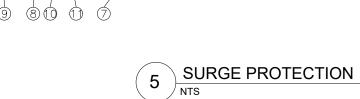
GROUND.

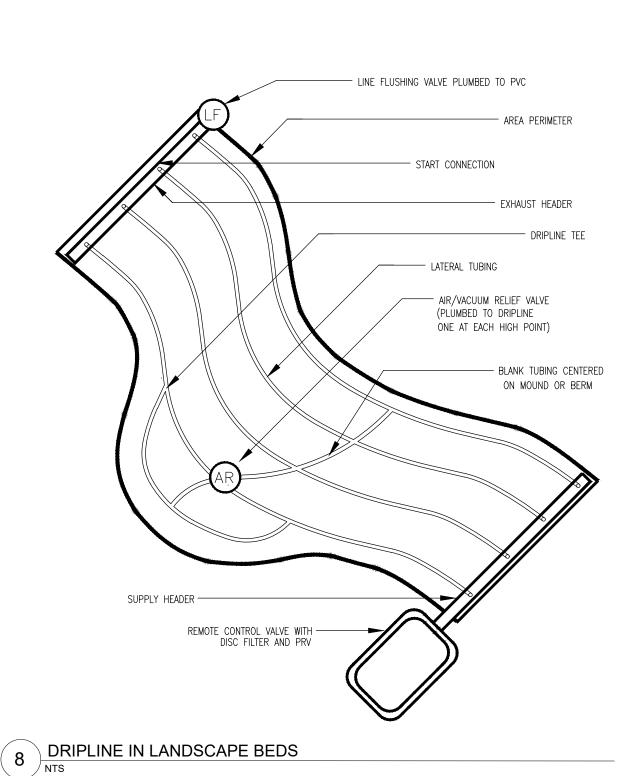
- 1-INCH CONDUIT AND FITTINGS FOR POWER SUPPLY WIRE
- 2-INCH CONDUIT AND FITTINGS FOR TWO-WIRE CABLE
- MAXICABLE TWO-WIRE PATH TO FIELD DEVICES USE A DIFFERENT CABLE JACKET COLOR FOR EACH PATH.
- 6 1-INCH CONDUIT AND FITTINGS FOR GROUND WIRE. ONLY FOR OUTDOOR INSTALLATIONS.

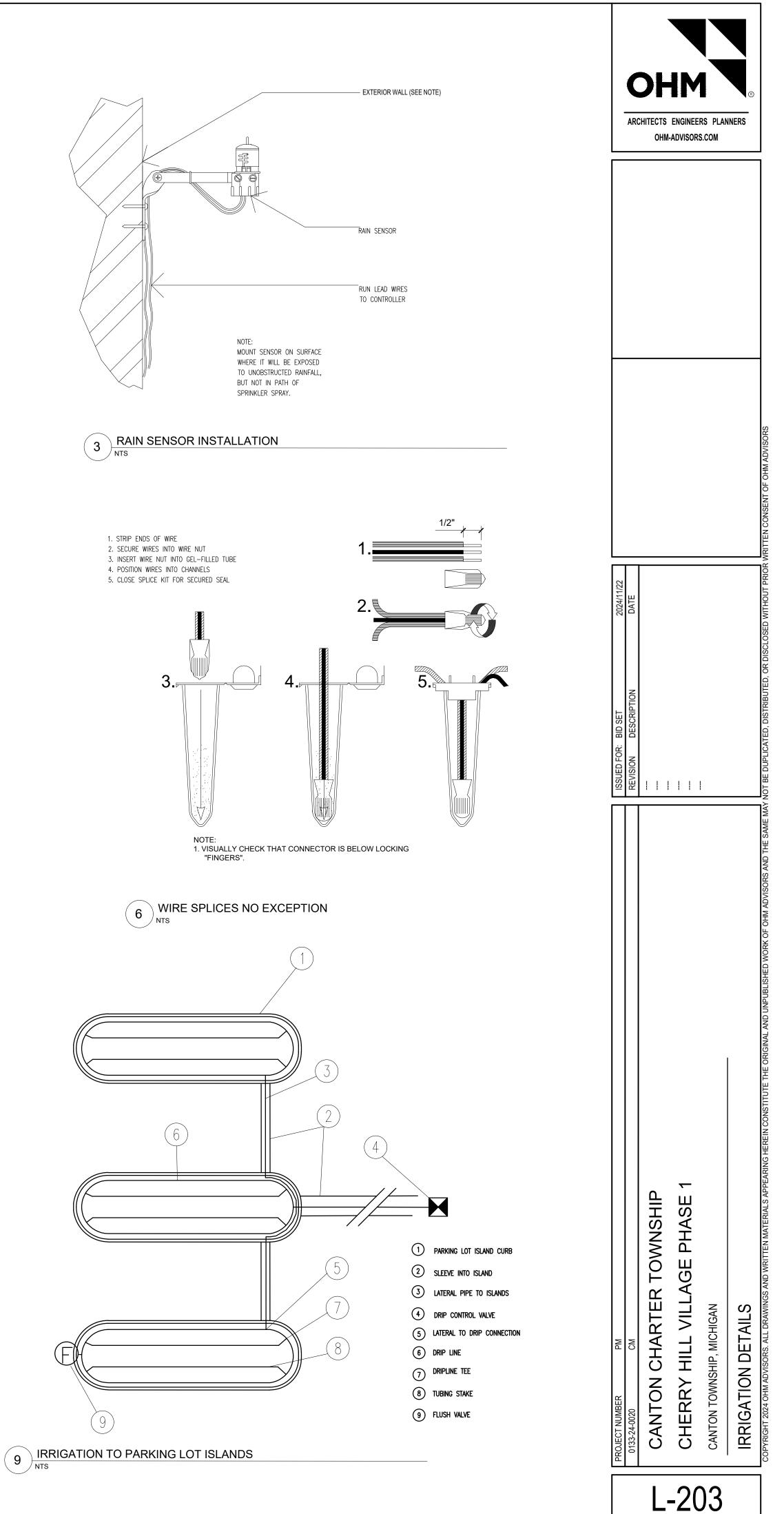
NOTES: 1. ESP-LXIVM CONTROLLER IS AVAILABLE IN TWO MODELS. THE LXIVM WITH 60 STATIONS AND THE LMIVM-PRO WITH 240 STATIONS. REFER TO THE CHART BELOW FOR DIFFERENCES STATIONS. REFER TO THE CHART BELOW FOR DIFFERENCES BETWEEN THE TWO MODELS. 2. USE STEEL CONDUIT FOR ABOVE GRADE AND SCH 40 PVC CONDUIT FOR BELOW GRADE CONDITIONS. 3. PROVIDE PROPER GROUNDING COMPONENTS TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS. IF CONTROLLER IS MOUNTED INDOORS, USE POWER SUPPLY GROUND

NOTES: 1. LSP-1TURF SHOULD BE INSTALLED EVERY 500-FEET OR FOR EVERY FIFTEEN DECODERS ON TWO-WIRE PATH.

- 2. LSP-1TURF TO BE INSTALLED AT END OF WIRE RUN THAT TERMINATES IN THE FIELD (STAR CONFIGURATION).
- 3. RAIN BIRD FD-401TURF AND FD-601TURF FIELD DECODERS COME WITH LSP-1TURF'S BUILT-IN. FD-101TURF, FD-102TURF AND FD-202TURF REQUIRE SEPARATE LSP-1TURF PROTECTION.







WATERING_SCHEDULE

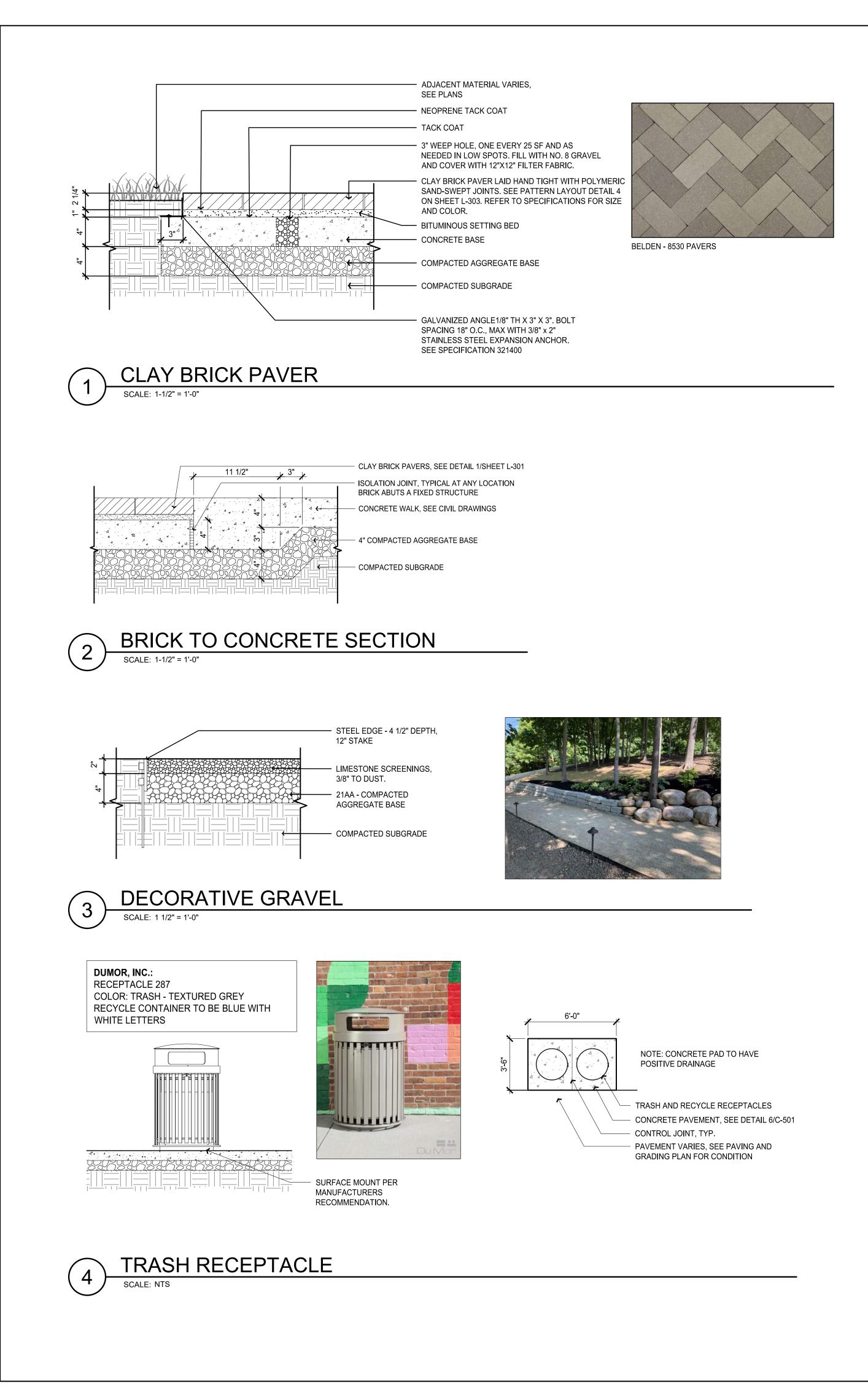
NUMBER		TYPE	PRECIP	SUN	MON	TUE	WED	THU	FRI	SAT	IN./WEEK	MIN./WEEK	GAL./WEEK	GAL./DAY
NUMBER	MODEL		PRECIP	3011	IVION	IUE				SAT			GAL./WEEN	GAL./DAT
1	RAIN BIRD PGA ANGLE	SHRUB ROTARY	0.61 in/h	33 min		33 min		33 min			1	99	2,943	981
2	RAIN BIRD PGA ANGLE	TURF ROTOR	0.29 in/h	35 min		1	208	2,804	467					
3	RAIN BIRD XCZPGA-100-PRF DRIP VALVE 3-15GPM	AREA FOR DRIPLINE	0.43 in/h	21 min	1	141	1,184	169						
4	RAIN BIRD PGA ANGLE	TURF SPRAY	3.59 in/h	3 min	1	17	722	103						
5	RAIN BIRD XCZPGA-100-PRF DRIP VALVE 3-15GPM	AREA FOR DRIPLINE	0.43 in/h	21 min	1	141	674	96.3						
6	RAIN BIRD PGA ANGLE	TURF SPRAY	1.71 in/h	6 min	1	36	1,064	152						
7	RAIN BIRD PGA ANGLE	TURF SPRAY	1.94 in/h	5 min	1	31	677	96.8						
8	RAIN BIRD PGA ANGLE	TURF SPRAY	1.34 in/h	7 min	1	45	1,148	164						
9	RAIN BIRD PGA ANGLE	SHRUB ROTARY	0.66 in/h	31 min		31 min		31 min			1	92	2,734	911
10	RAIN BIRD XCZPGA-100-PRF DRIP VALVE 3-15GPM	AREA FOR DRIPLINE	0.43 in/h	20 min	1	140	465	66.4						
11	RAIN BIRD PGA ANGLE	SHRUB ROTARY	0.51 in/h	40 min		40 min		40 min			1	118	2,130	710
12	RAIN BIRD XCZPGA-100-PRF DRIP VALVE 3-15GPM	AREA FOR DRIPLINE	0.43 in/h	21 min	1	141	1,544	221						
13	RAIN BIRD PGA ANGLE	TURF SPRAY	1.07 in/h	9 min	1	57	2,059	294						
14	RAIN BIRD PGA ANGLE	TURF SPRAY	1.17 in/h	8 min	1	52	1,981	283						
15	RAIN BIRD PGA ANGLE	TURF SPRAY	2.19 in/h	4 min	1	28	315	45.0						
16	RAIN BIRD XCZPGA-100-PRF DRIP VALVE 3-15GPM	AREA FOR DRIPLINE	0.43 in/h	21 min	1	141	856	122						
17	RAIN BIRD PGA ANGLE	TURF SPRAY	1.47 in/h	6 min	1	41	1,393	199						
18	RAIN BIRD XCZPGA-100-PRF DRIP VALVE 3-15GPM	AREA FOR DRIPLINE	0.43 in/h	21 min	1	141	666	95.1						
19	RAIN BIRD PGA ANGLE	TURF SPRAY	1.94 in/h	5 min	1	31	1,066	152						
20	RAIN BIRD XCZPGA-100-PRF DRIP VALVE 3-15GPM	AREA FOR DRIPLINE	0.43 in/h	21 min	1	141	2,076	297						
21	RAIN BIRD PGA ANGLE	TURF ROTOR	0.46 in/h	22 min		1	132	4,394	732					
22	RAIN BIRD PGA ANGLE	TURF SPRAY	1.92 in/h	5 min	1	32	257	36.7						
23	RAIN BIRD PGA ANGLE	TURF ROTOR	0.21 in/h	49 min		1	289	6,728	1,121					
24	RAIN BIRD PGA ANGLE	TURF ROTOR	0.62 in/h	17 min		1	97	1,990	332					
25	RAIN BIRD PGA ANGLE	TURF SPRAY	1.45 in/h	6 min	1	42	987	141						
26	RAIN BIRD PGA ANGLE	TURF SPRAY	1.46 in/h	6 min	1	42	957	137						
27	RAIN BIRD XCZPGA-100-PRF DRIP VALVE 3-15GPM	AREA FOR DRIPLINE	0.43 in/h	21 min	1	141	1,151	164						
28	RAIN BIRD PGA ANGLE	TURF ROTOR	0.48 in/h	21 min		1	124	3,566	594					
29	RAIN BIRD PGA ANGLE	TURF ROTOR	0.47 in/h	22 min		1	129	3,380	563					
		TOTALS:		507	403	507	403	507	403	237		2,869	51,910	9,447

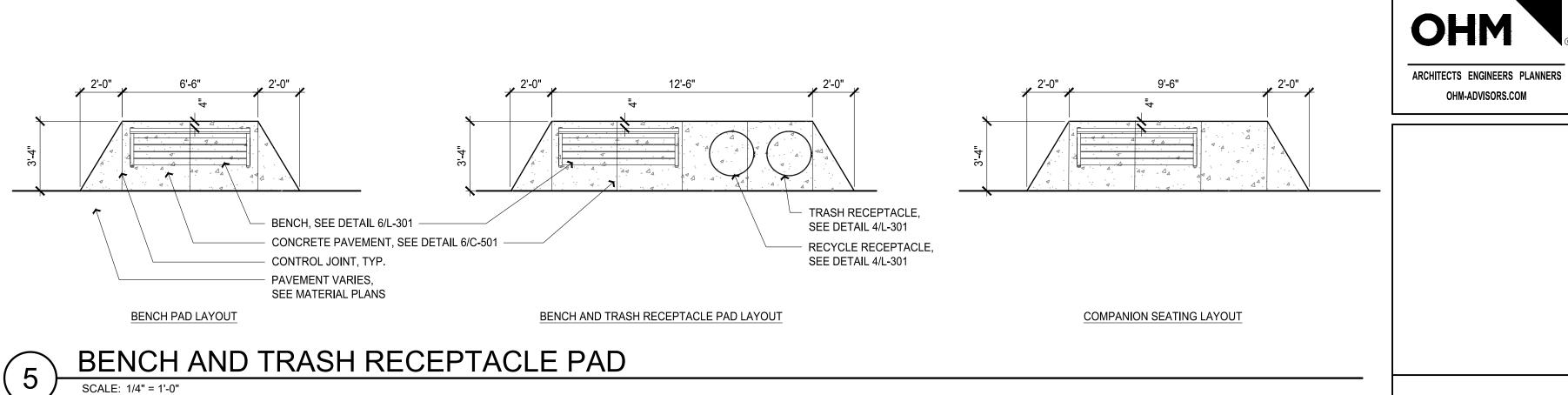
NUMBER	MODEL	SIZE	TYPE	GPM	HEADS	PIPE 1"	PIPE 1 1/2"	PIPE 2"	WIRE	PSI	PSI @ POC	PRECIP
1	RAIN BIRD PGA ANGLE	1"	SHRUB ROTARY	29.73	26	427.3	14.7		83.0	52.5	52.6	0.61 in/h
2	RAIN BIRD PGA ANGLE	1"	TURF ROTOR	13.48	10	299.9			115.9	30.9	31.0	0.29 in/h
3	RAIN BIRD XCZPGA-100-PRF DRIP VALVE 3-15GPM	1"	AREA FOR DRIPLINE	8.4	1,584 L.F.	241.4			191.6	37.7	37.8	0.43 in/h
1	RAIN BIRD PGA ANGLE	1-1/2"	TURF SPRAY	42.46	31	256.6	6.8	12.2	198.4	33.1	33.8	3.59 in/h
	RAIN BIRD XCZPGA-100-PRF DRIP VALVE 3-15GPM	1"	AREA FOR DRIPLINE	4.78	801.5 L.F.	204.1			255.1	34.0	34.1	0.43 in/h
	RAIN BIRD PGA ANGLE	1-1/2"	TURF SPRAY	29.55	23	182.8	18.7		415.2	33.1	34.1	1.71 in/h
	RAIN BIRD PGA ANGLE	1-1/2"	TURF SPRAY	21.85	16	128.9	10.6		424.1	31.9	32.5	1.94 in/h
	RAIN BIRD PGA ANGLE	1"	TURF SPRAY	25.5	17	170.0	46.1		537.2	36.3	37.2	1.34 in/h
	RAIN BIRD PGA ANGLE	1-1/2"	SHRUB ROTARY	29.72	26	407.7	11.0		630.6	47.2	48.6	0.66 in/h
0	RAIN BIRD XCZPGA-100-PRF DRIP VALVE 3-15GPM	1"	AREA FOR DRIPLINE	3.32	497.1 L.F.	102.8			635.8	33.2	33.2	0.43 in/h
1	RAIN BIRD PGA ANGLE	1"	SHRUB ROTARY	18.05	15	272.8	10.4		662.2	51.2	51.6	0.51 in/h
2	RAIN BIRD XCZPGA-100-PRF DRIP VALVE 3-15GPM	1"	AREA FOR DRIPLINE	10.95	1,642 L.F.	61.9			711.4	40.1	40.3	0.43 in/h
3	RAIN BIRD PGA ANGLE	1-1/2"	TURF SPRAY	36.12	24	234.4	44.9	15.2	746.4	33.1	35.0	1.07 in/h
4	RAIN BIRD PGA ANGLE	1-1/2"	TURF SPRAY	38.09	28	330.0	14.8	5.2	753.1	34.1	36.2	1.17 in/h
5	RAIN BIRD PGA ANGLE	1"	TURF SPRAY	11.24	11	120.4			768.5	36.0		2.19 in/ł
6	RAIN BIRD XCZPGA-100-PRF DRIP VALVE 3-15GPM	1"	AREA FOR DRIPLINE	6.07	909.2 L.F.	75.9			761.2	35.2	35.3	0.43 in/ł
7	RAIN BIRD PGA ANGLE	1-1/2"	TURF SPRAY	33.98	25	220.2	75.7		756.0	32.9	34.6	1.47 in/h
8	RAIN BIRD XCZPGA-100-PRF DRIP VALVE 3-15GPM	1"	AREA FOR DRIPLINE	4.72	707.5 L.F.				720.4	33.9	34.0	0.43 in/ł
9	RAIN BIRD PGA ANGLE	1"	TURF SPRAY	34.39	26	240.0	41.2		712.1	38.6	40.3	1.94 in/h
0	RAIN BIRD XCZPGA-100-PRF DRIP VALVE 3-15GPM	1"	AREA FOR DRIPLINE	14.72	2,208 L.F.	144.6			706.9	45.5	45.9	0.43 in/ł
1	RAIN BIRD PGA ANGLE	1-1/2"	TURF ROTOR	33.29	21	545.1	68.1		609.5	29.1	30.8	0.46 in/ł
2	RAIN BIRD PGA ANGLE	1"	TURF SPRAY	8.04	7	131.2			570.5	36.0	36.1	1.92 in/h
3	RAIN BIRD PGA ANGLE	1-1/2"	TURF ROTOR	23.28	8	250.1	10.2		558.4	27.2	28.1	0.21 in/ł
4	RAIN BIRD PGA ANGLE	1-1/2"	TURF ROTOR	20.52	12	301.0	58.5		504.5	28.1	28.9	0.62 in/ł
5	RAIN BIRD PGA ANGLE	1"	TURF SPRAY	23.5	16	151.0	20.1		482.8	37.2	38.2	1.45 in/ł
6	RAIN BIRD PGA ANGLE	1"	TURF SPRAY	22.78	16	151.5	12.5		477.6	36.9	37.9	1.46 in/ł
7	RAIN BIRD XCZPGA-100-PRF DRIP VALVE 3-15GPM	1"	AREA FOR DRIPLINE	8.16	1,223 L.F.	337.8			398.7	37.4	37.5	0.43 in/ł
8	RAIN BIRD PGA ANGLE	1-1/2"	TURF ROTOR	28.76	19	401.9	38.2		368.1	37.4	38.6	0.48 in/h
9	RAIN BIRD PGA ANGLE	1-1/2"	TURF ROTOR	26.2	21	579.4	8.3		149.6	27.8	28.3	0.47 in/ł
	Common Wire								1,715			

CRITICAL ANALYSIS

Generated:	2024-11-11 22:17
P.O.C. NUMBER: 01 Water Source Information:	
FLOW AVAILABLE Point of Connection Size: Flow Available	2" 77.18 GPM
PRESSURE AVAILABLE Static Pressure at POC: Pressure Available:	70 PSI 70 PSI
DESIGN ANALYSIS Maximum Station Flow: Flow Available at POC: Residual Flow Available:	42.46 GPM 77.18 GPM 34.72 GPM
Design Pressure: Friction Loss: Fittings Loss: Elevation Loss: Loss through Valve: Pressure Req. at Critical Station: Loss for Fittings: Loss for Main Line: Loss for POC to Valve Elevation:	45 PSI 1.78 PSI 0.18 PSI 0 PSI 5.5 PSI 52.5 PSI 0.01 PSI 0.13 PSI 0 PSI
Loss for Backflow:	0 PSI
Critical Station Pressure at POC: Pressure Available:	52.6 PSI 70 PSI
Residual Pressure Available:	17.4 PSI

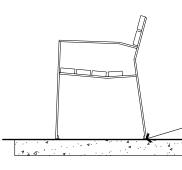
_	PROJECT NUMBER PM	ISSUED FOR: BID SET	2024/11/22	
	0133-24-0020 CM	REVISION DESCRIPTION	DATE	
	CANTON CHARTER TOWNSHIP	1 1 1		DH-
-2(CHERRY HILL VILLAGE PHASE 1	1 1		
<u>ן</u>	CANTON TOWNSHIP, MICHIGAN			RS PLA
	IRRIGATION SCHEDULES			® NNERS







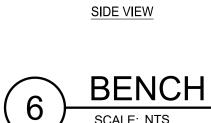
LANDSCAPE FORMS: HARPO BENCH, SURFACE MOUNTED (69") POWDER COAT COLOR: BRONZE METALLIC WIDE WOOD SLATES - IPE * PROVIDE COLOR & MATERIAL SAMPLES FOR REVIEW AND APPROVAL BEFORE FINAL SELECTION

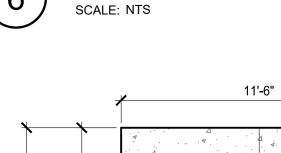


SURFACE MOUNT, PER MANUFACTURERS RECOMMENDATION

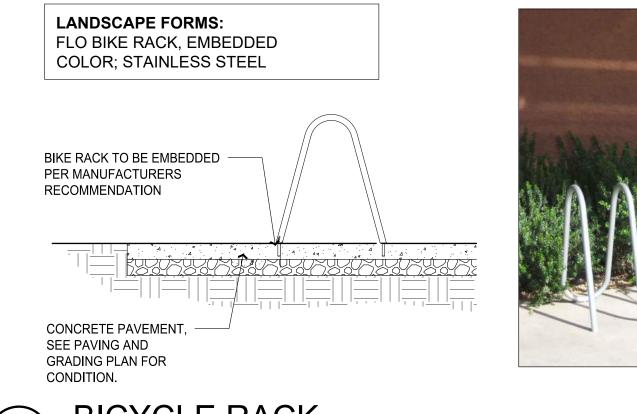








BIKE RACK - CONCRETE PAVEMENT, SEE DETAIL 6/C-501 CONTROL JOINT, TYP. - PAVEMENT VARIES, SEE MATERIAL PLANS







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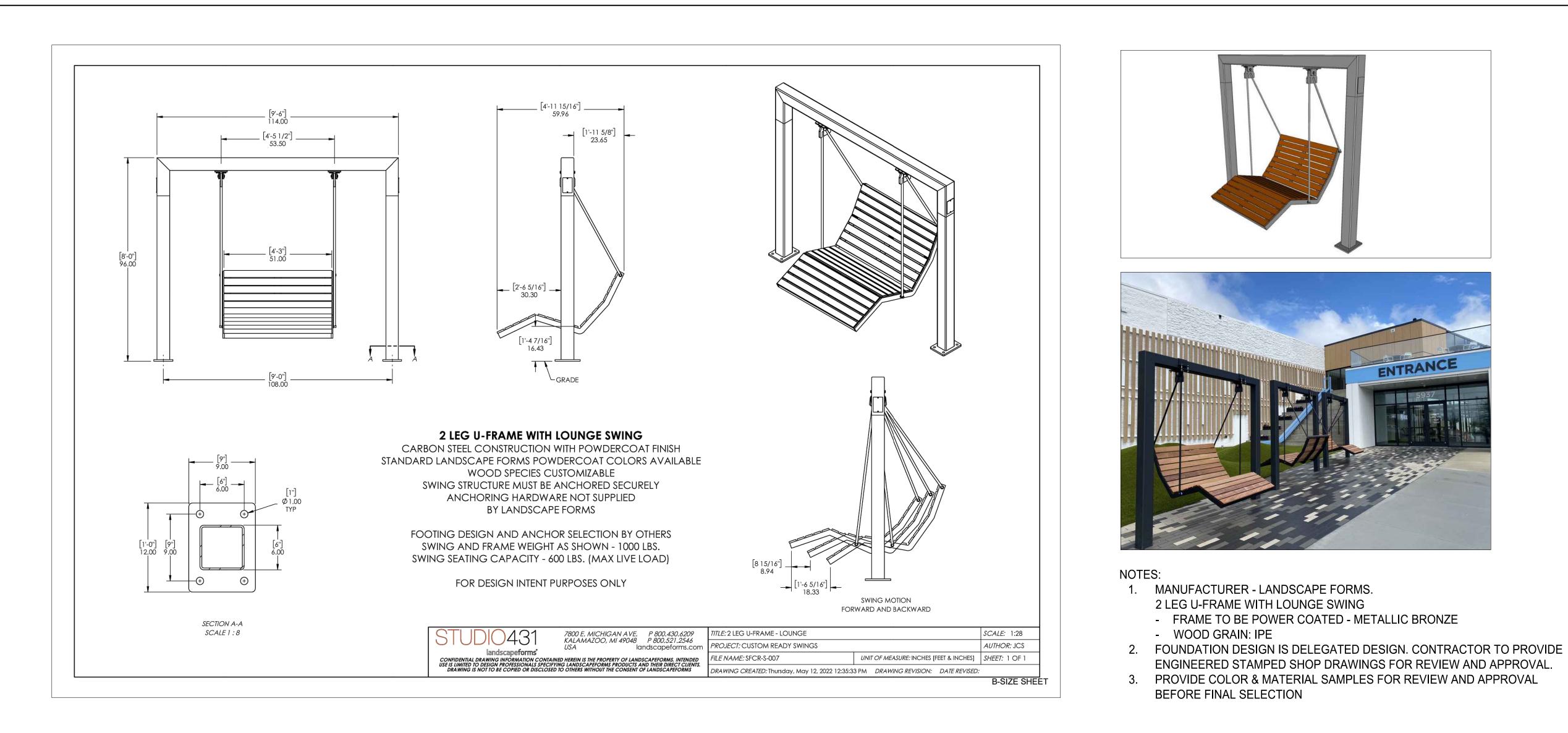
CAN

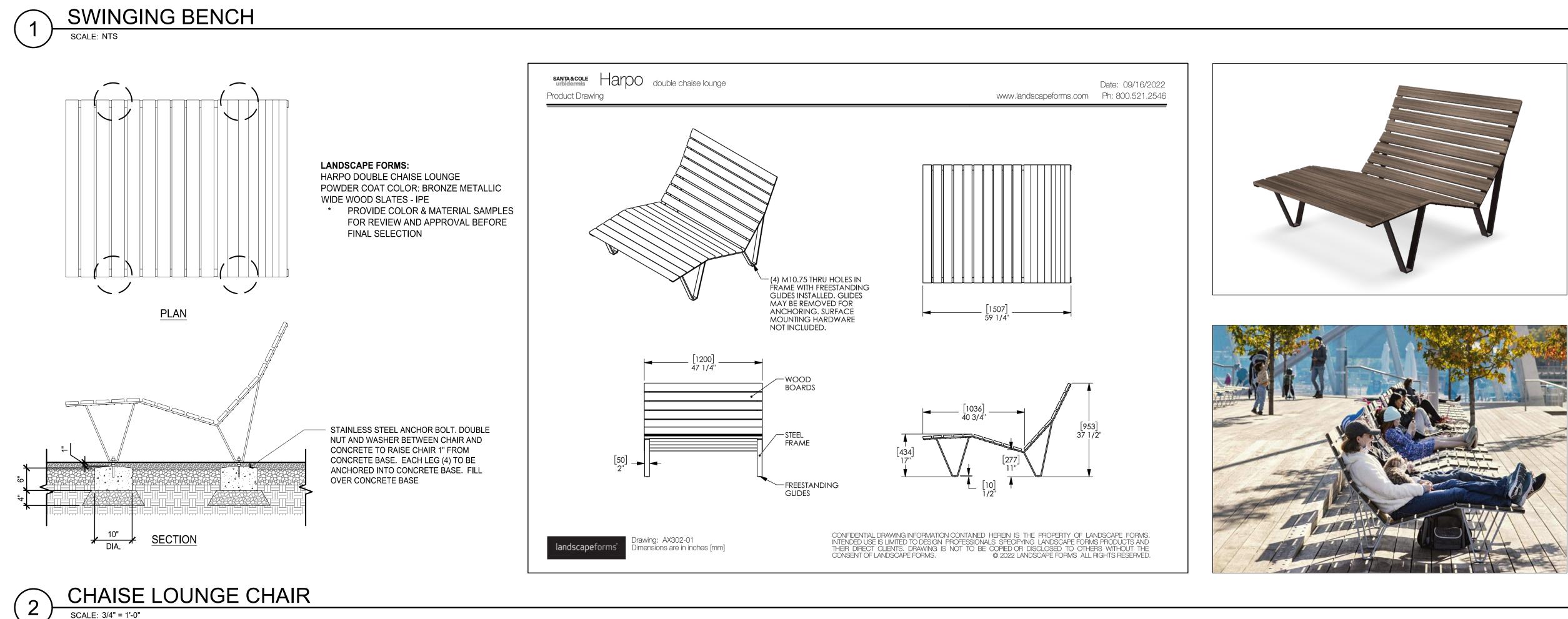
TOWNSHIP

CHARTER

CANTON







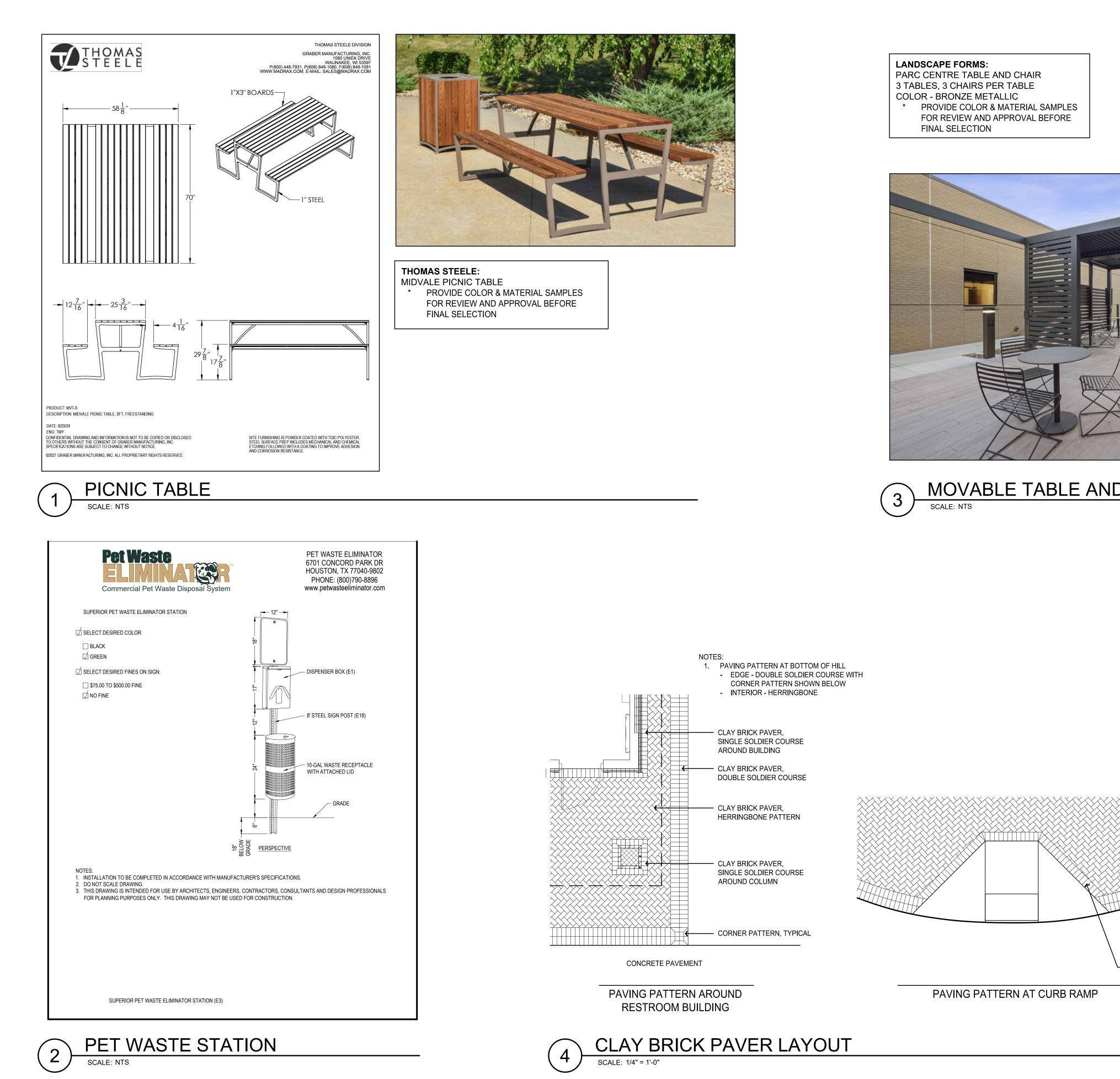
SCALE: 3/4" = 1'-0"

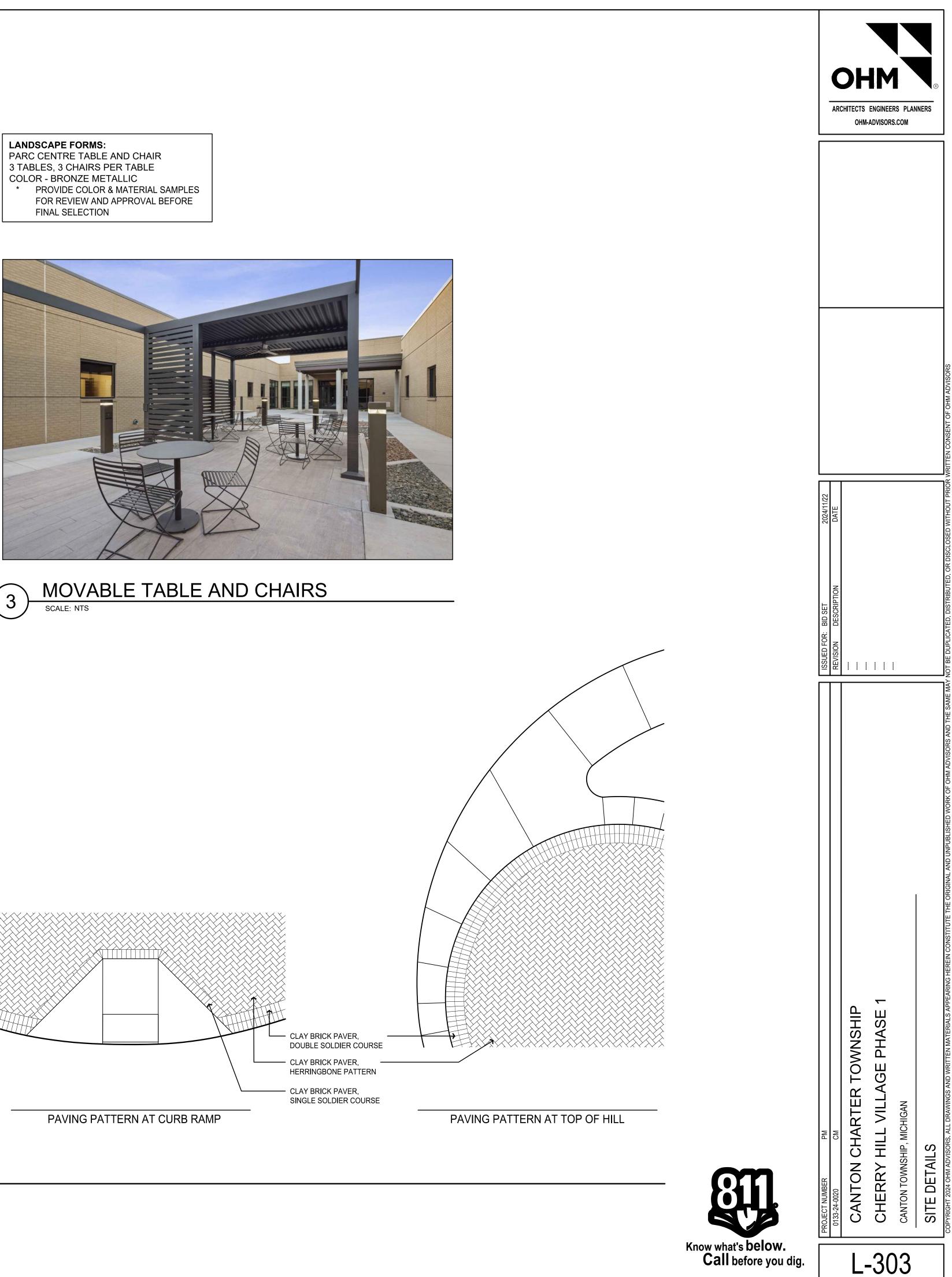


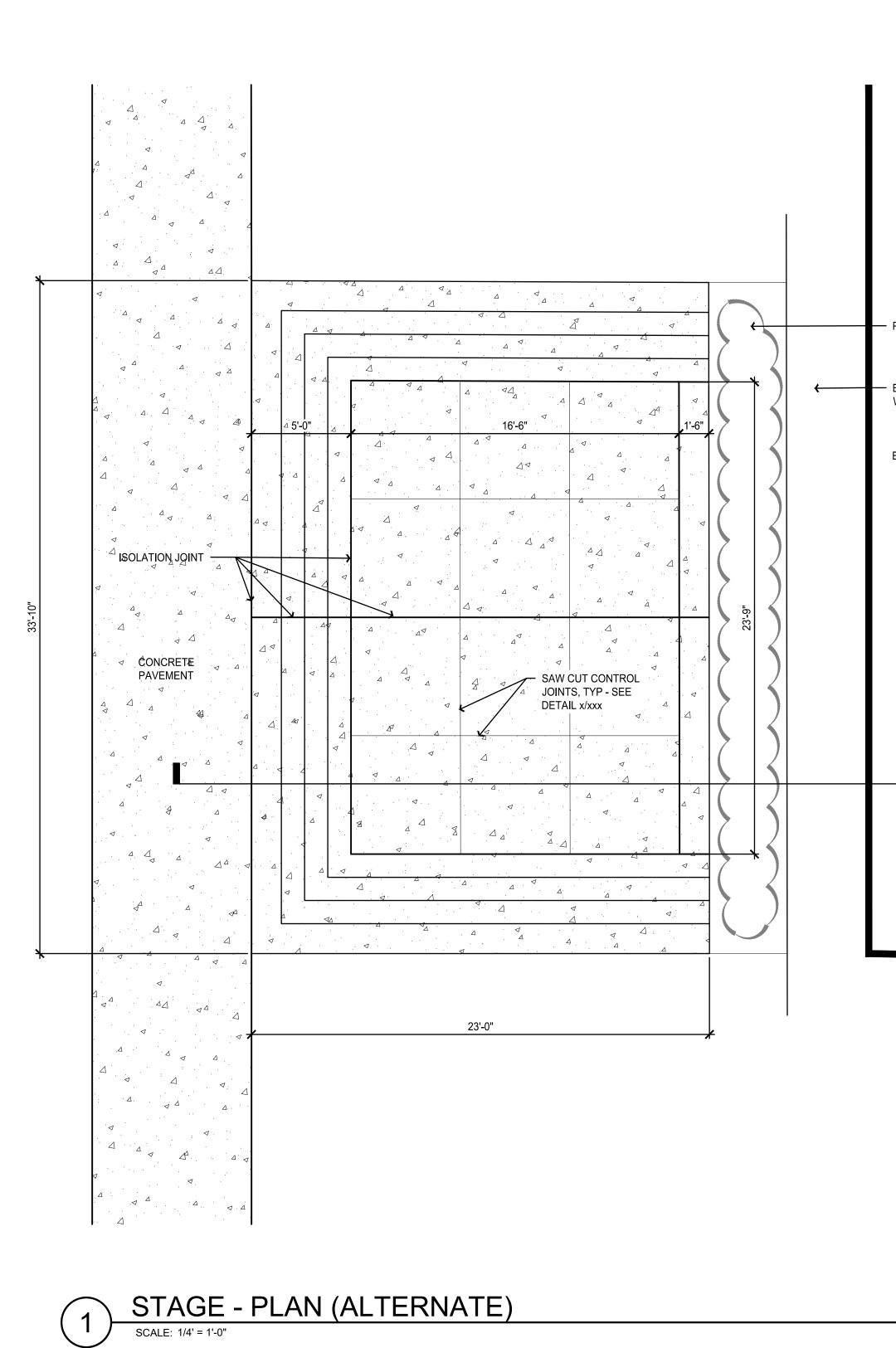


PROJECT NUMBER PM		2024/11/22	
0133-24-0020 CM	REVISION DESCRIPTION	DATE	
CANTON CHARTER TOWNSHIP			СНІТЕСТ
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CHERRY HILL VILLAGE PHASE 1			
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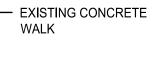




WING PATH: P:\0126_0165\0133240020_Cherry_Hill_Village_Phase_1\Drawings\PLN_UD\Sheets\230060_DTLS.dwg Nov 22, 202

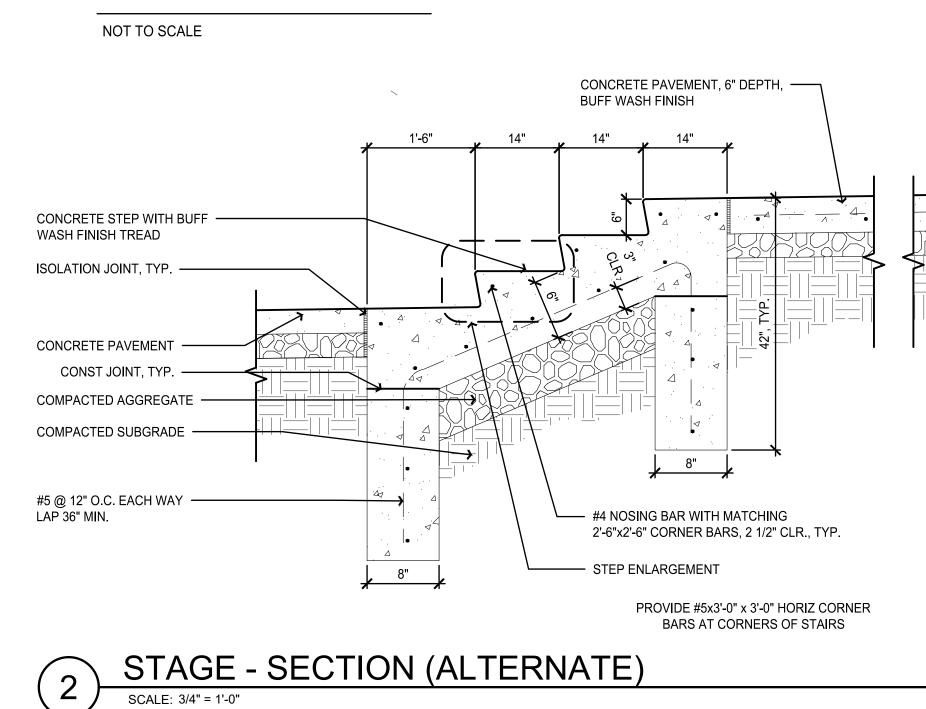


2% WASH



EXISTING SCHOOL HOUSE





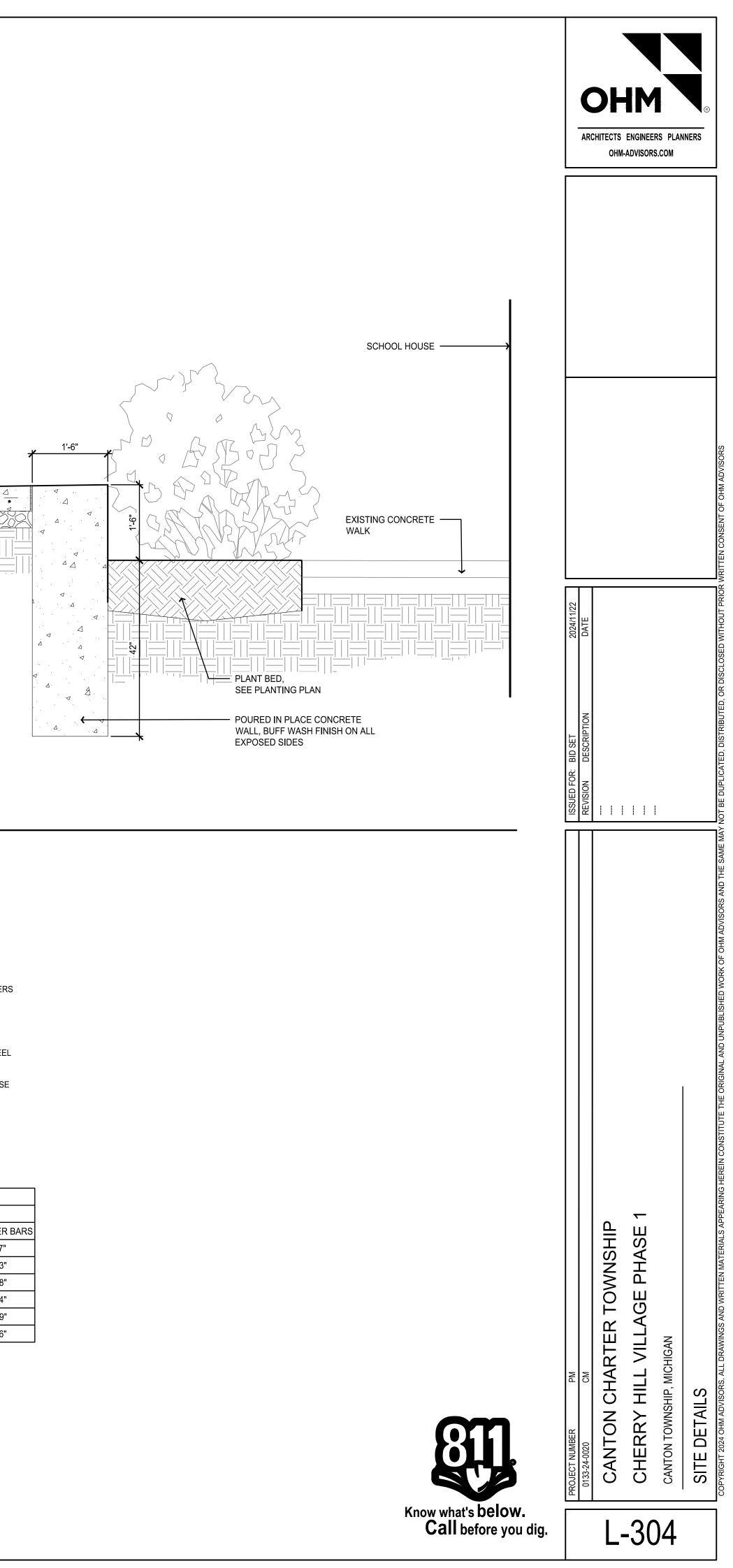
- PROVIDE MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTH OF 5,000 psi (fc = 5,000 psi) WITH 6% ± 1.5% ENTRAINED AIR, MAXIMUM W/C RATIO < 0.40, AND MAXIMUM 4" SLUMP, UNLESS SUPER-PLASTICIZERS ARE USED FOR EXTERIOR APPLICATIONS. USE OF SUPER-PLASTICIZERS IS SUBJECT TO PRIOR APPROVAL BY THE ENGINEER. DO NOT PROVIDE AIR CONTENT > 3% FOR TROWEL FINISHED SLABS.
- PROVIDE READY-MIX CONCRETE CONFORMING TO ASTM C-94.
 CONCRETE SHALL BE PLACED IN ACCORDANCE WITH ACI 117 301, 305R, 306.1, AND 308.1, LATEST APPLICABLE EDITION
- APPLICABLE EDITION.
 4. REINFORCING STEEL CONFORMING TO ASTM A-615, GRADE 60 IS REQUIRED. PLACE REINFORCING STEEL IN CONFORMANCE WITH CRSI MANUAL OF STANDARD PRACTICE.
- REINFORCING STEEL SHAL NOT BE WELDED.
 REINFORCING STEEL SHALL HAVE A MINIMUM CONCRETE COVER AS LISTED BELOW UNLESS OTHERWISE NOTED.
- A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED EARTH: 3"
- B. CONCRETE CAST AGAINST AND FERMIAINENTLY EXPOSED EARTH 3"
 B. CONCRETE CAST AGAINST FORMS BUT EXPOSED TO EARTH OR WEATHER
 1. NO. 5 OR SMALLER 1 1/2"
- 2. GREATER THAN NO. 5 2"

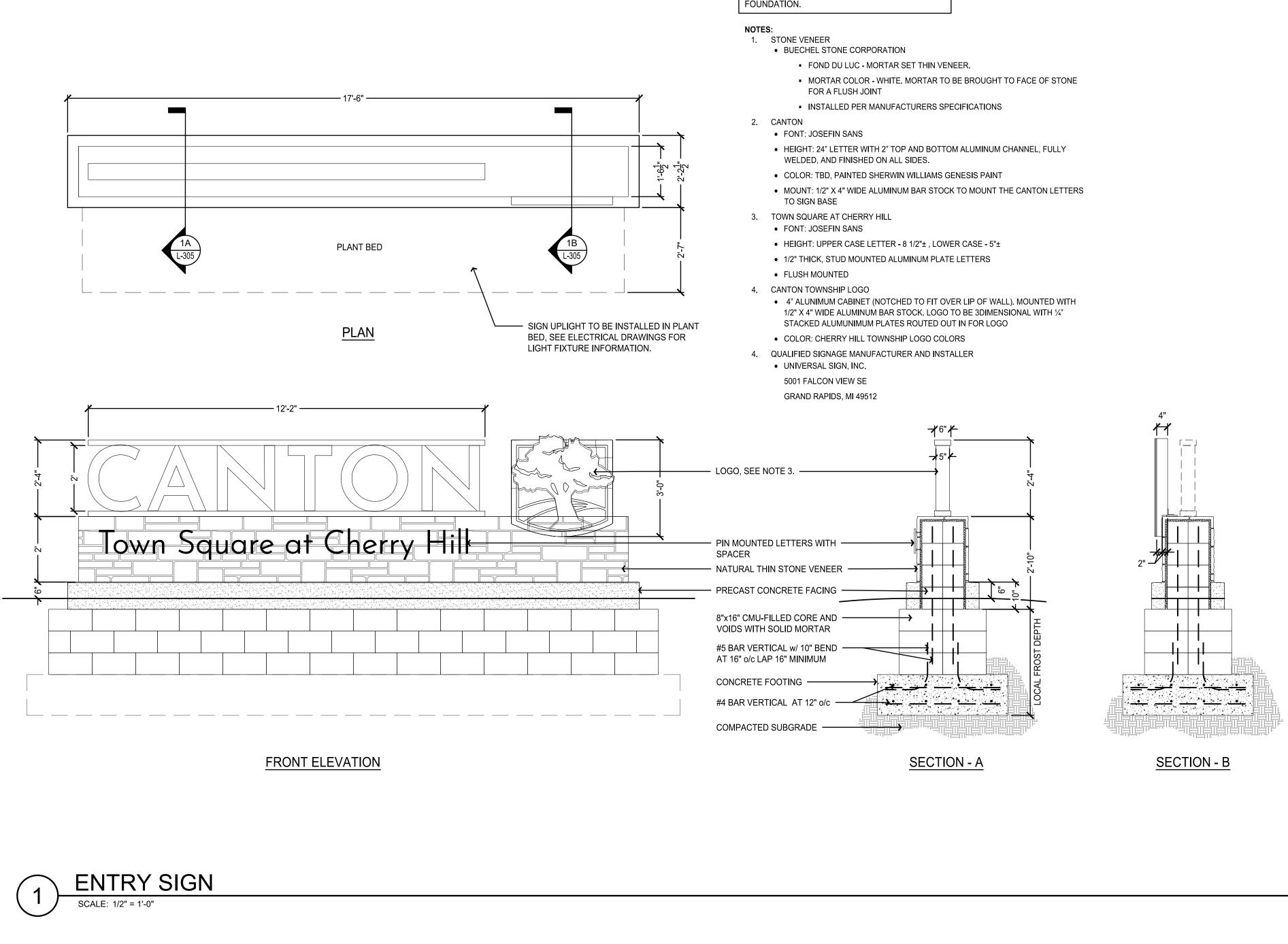
C. SLAB ON GRADE: 2" FROM T/SLAB

REINFORCEMENT LAP SPLICE LENGTH+										
BAR	f'c=3,000 psi		f'c=4,000 psi		f'c=5,000 psi					
SIZE	TOP BARS*	ALL OTHER BARS	TOP BARS*	ALL OTHER BARS	TOP BARS*	ALL OTHER B				
#3	28"	22"	24"	19"	22"	17"				
#4	37"	29"	33"	25"	29"	23"				
#5	47"	36"	40"	31"	36"	28"				
#6	56"	43"	49"	38"	44"	34"				
#7	81"	63"	70"	54"	63"	49"				
#8	93"	72"	81"	62"	72"	56"				
	SIZE #3 #4 #5 #6 #7	SIZE TOP BARS* #3 28" #4 37" #5 47" #6 56" #7 81"	BAR f'c=3,000 psi SIZE TOP BARS* ALL OTHER BARS #3 28" 22" #4 37" 29" #5 47" 36" #6 56" 43" #7 81" 63"	BAR SIZE f'c=3,000 psi f'c=4,0 TOP BARS* ALL OTHER BARS TOP BARS* #3 28" 22" 24" #4 37" 29" 33" #5 47" 36" 40" #6 56" 43" 49" #7 81" 63" 70"	BAR SIZE f'c=3,000 psi f'c=4,000 psi TOP BARS* ALL OTHER BARS TOP BARS* ALL OTHER BARS #3 28" 22" 24" 19" #4 37" 29" 33" 25" #5 47" 36" 40" 31" #6 56" 43" 49" 38" #7 81" 63" 70" 54"	BAR f'c=3,000 psi f'c=4,000 psi f'c=5, SIZE TOP BARS* ALL OTHER BARS TOP BARS* ALL OTHER BARS TOP BARS* #3 28" 22" 24" 19" 22" #4 37" 29" 33" 25" 29" #5 47" 36" 40" 31" 36" #6 56" 43" 49" 38" 44" #7 81" 63" 70" 54" 63"				

* TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE BELOW BAR.

+ LAP SPLICE LENGTHS SHOWN ARE CLASS B SPLICE LENGTHS FOR UNCOATED OR GALVANIZED BARS WITH CLEAR COVER OF db OR MORE AND WITH CLEAR SPACING OF 2db OR MORE. INCREASE LAP LENGTHS BY 50% FOR EPOXY COATED OR DUAL ZINC-EPOXY COATED BARS WITH CLEAR COVER LESS THAN 3db OR WITH CLEAR SPACING LESS THAN 6db. INCREASE LAP LENGTHS BY 20% FOR EPOXY COATED OR DUAL ZINC-EPOXY COATED BARS WITH CLEAR COVER OF 3db OR MORE AND WITH CLEAR SPACING OF 6db OR MORE. SPLICE LENGTHS SHOWN ARE FOR NORMAL WEIGHT CONCRETE AND REINFORCEMENT WITH A YIELD STRENGTH OF 60,000 PSI (60 KSI).





DRAWING SERVES AS 'BASIS OF DESIGN'. CONTRACTOR TO SUBMIT SHOP DRAWINGS AND COLOR SAMPLES FOR ALL SIGNAGE COMPONENTS AND ENGINEERED STAMPED SHOP DRAWINGS FOR MASONRY BASE AND FOUNDATION.





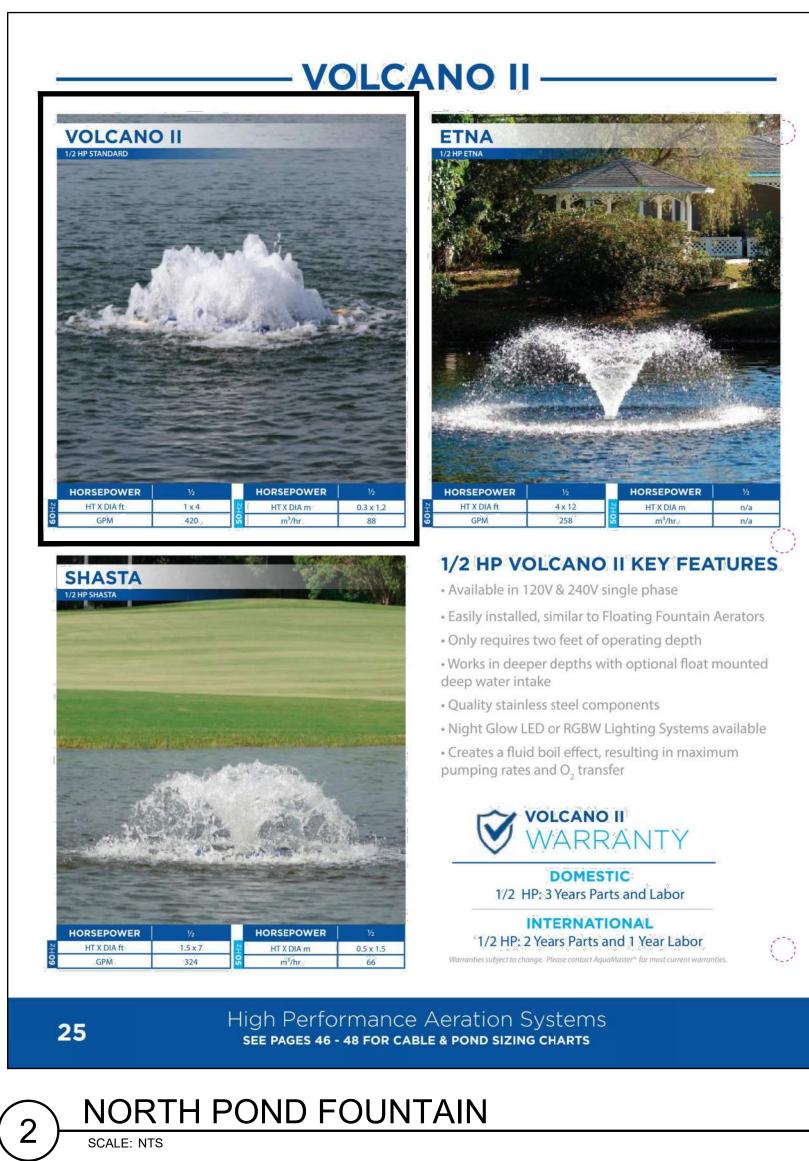




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SEE ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS



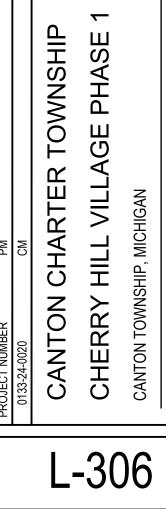
SEE ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS



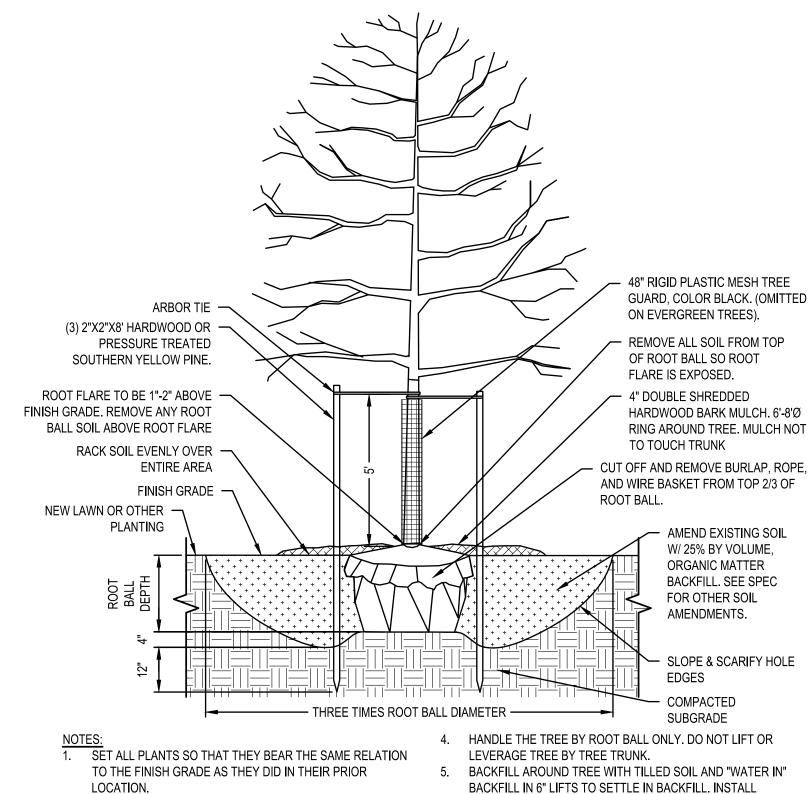
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- 2. THOROUGHLY TILL AREA EQUAL TO 3 TIMES THE DIAMETER OF THE ROOT BALL AND TO THE DEPTH OF THE ROOT BALL. PRIOR TO TILLING, REMOVE ANY EXISTING LAWN OR VEGETATION.
- 3. ALL PLANT MATERIALS SHALL BE IN ACCORDANCE WITH THE AMERICAN STANDARDS FOR NURSERY STOCK (ANSI Z60.1).
- BACKFILL 1" HIGHER THAN SURROUNDING GRADE TO ALLOW FOR SETTLEMENT. PRUNING SHALL BE LIMITED TO DEAD, DISEASED, OR BROKEN LIMBS ONLY, AND SHALL BE IN ACCORDANCE WITH
- ANSI SPECIFICATIONS. REMOVE STAKES AND ARBOR TIES AFTER ONE YEAR, UNLESS DIRECTED OTHERWISE.

DECIDUOUS & ORNAMENTAL TREE PLANTING SCALE: NTS

6.



CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.

FINAL TREE STAKING PLACEMENT TO BE APPROVED BY ENGINEER. STAKE ALL EVERGREEN TREES UNDER

12' TALL. GUY WIRES TO BE USED ON ALL EVERGREEN TREES 12' TALL AND

OVER. PRUNE ONLY DEAD AND BROKEN BRANCHES. NEVER CUT THE CENTRAL

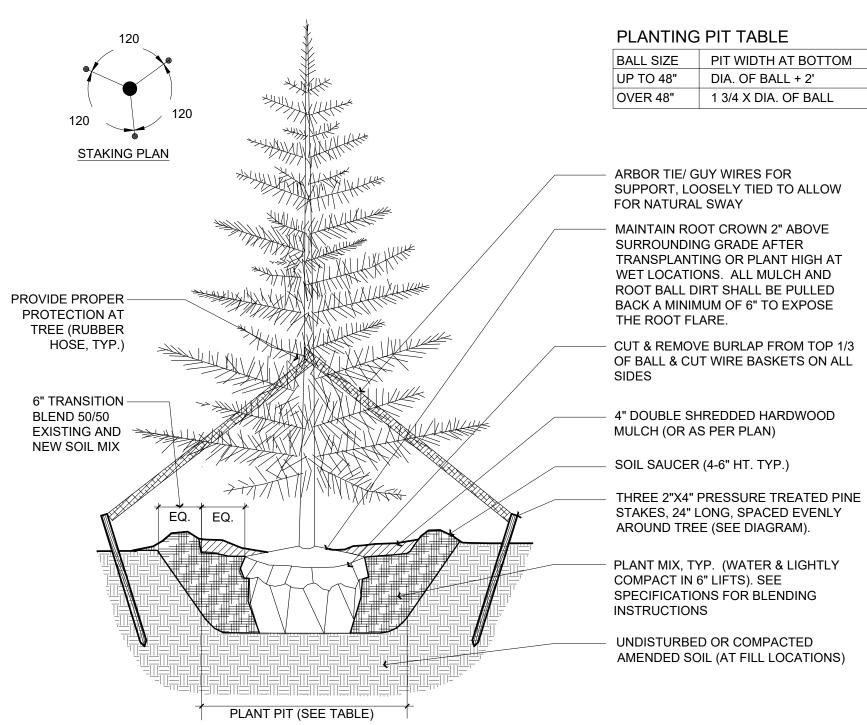
LEADER. MARK THE NORTH SIDE OF THE TREE IN THE NURSERY, AND ROTATE TREE TO FACE NORTH AT THE SITE WHENEVER POSSIBLE.

IF PLANT IS SHIPPED WITH A WIRE BASKET AROUND THE ROOT BALL, CUT THE WIRE BASKET IN FOUR PLACES AND FOLD DOWN (8" MIN.) INTO PLANTING HOLE.

REMOVE ALL TWINE, SISAL, ROPE, WIRE AND BURLAP FROM TOP HALF OF ROOTBALL

SET TREE PLUMB IN PLANTING PIT. EACH TREE MUST BE PLANTED SUCH THAT THE TRUNK FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL. TREES WHERE THE TRUNK FLARE IS NOT

VISIBLE SHALL BE REJECTED. DO NOT COVER THE TOP OF THE ROOT BALL WITH SOIL.



EVERGREEN TREE PLANTING SCALE: NTS

2

