225 Fuhrmann Boulevard, Buffalo, New York 14203 TWMLA Project No. 19016

BID DOCUMENTS

May 04, 2023



BEER GARDEN DECK DETAILS (4/4)

COLUMN SCHEDULE

ARCHITEC	TURE
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A002	TYPICAL MOUNTING HEIGHTS
A101	FLOOR PLAN
A102	EQUIPMENT PLAN
A103	TRANSOM PLAN
A104	ROOF PLAN
A151	REFLECTED CEILING PLANS
A161	FINISH PLAN
A201	EXTERIOR ELEVATIONS
A251	INTERIOR ELEVATIONS
A301	BUILDING SECTIONS
A501	DETAILS
A502	ROOF DETAILS
A601	DOOR SCHEDULE & DETAILS
	EQUIPMENT
KA-1	EQUIPMENT & SCHEDULE
KA-2	PLUMBING ROUGH-INS PLAN
KA-3	ELECTRICAL ROUGH-INS PLAN
KA-4	BUILDING WORKS
KA-4 KA-5	ELEVATIONS & DETAILS
KA-5A	ELEVATIONS & DETAILS ELEVATIONS & DETAILS
KA-5A	EXHAUST HOOD SHOP DRAWINGS
KA-6A	EXHAUST HOOD SHOP DRAWINGS EXHAUST HOOD SHOP DRAWINGS
KA-6B	EXHAUST HOOD SHOP DRAWINGS
PLUMBING P001	PLUMBING NOTES AND LEGENDS
	PLUMBING NOTES AND LEGENDS PLUMBING DETAILS
P501 P502	
P502 P503	PLUMBING DETAILS PLUMBING DETAILS
PS101	WILKESON POINTE PLUMBING SITE PLAN
PS401	WILKESON POINTE PLUMBING SITE PLAN WILKESON POINTE PLUMBING SITE ENLARGED PLAN
PP101 PP102	WILKESON POINTE PLUMBING PLAN WILKESON POINTE PLUMBING PLAN
PP601	WILKESON POINTE PLUMBING ISOMETRICS
MECHANIC	MECHANICAL NOTES AND LEGENDS
M001	
M501 MS101	MECHANICAL DETAILS WIKLESON POINTE MECHANICAL SITE PLAN
M601	MECHANICAL SCHEDULES
MH101	WIKLESON POINTE MECHANICAL PLAN
MH301	WIKLESON POINTE MECHANICAL PLAN WIKLESON POINTE MECHANICAL SECTIONS
MP101	WIKLESON POINTE MECHANICAL SECTIONS WIKLESON POINTE MECHANICAL PIPING PLAN
ELECTRIC	
E001 E501	ELECTRICAL NOTES AND LEGENDS
	ELECTRICAL DETAILS
E502	ELECTRICAL DETAILS
E601	ELECTRICAL LICUTING SCHEDULES
E602	ELECTRICAL LIGHTING SCHEDULES
E603	WILKESON POINTE ELECTRICAL LIGHTING DIAGRAM
ED101	WILKESON POINTE ELECTRICAL DEMOLITION PLAN
ES101	WILKESON POINTE ELECTRICAL SITE PLAN
ES401	WILKESON POINTE ELECTRICAL SITE ENLARGED PLAN
EG101	WILKESON POINTE ELECTRICAL GROUNDING PLAN
EP101	WILKESON POINTE ELECTRICAL POWER INTERIOR PLAN
EP102	WILKESON POINTE ELECTRICAL ROOF PLAN
EP201	WILKESON POINTE ELECTRICAL POWER EXTERIOR PLAN
⊢I 1()1	WILKESON DOINTE ELECTRICAL LICHTING DLAN

WILKESON POINTE ELECTRICAL LIGHTING PLAN

ERIE CANAL HARBOR DEVELOPMENT CORPORATION

WILKESON POINTE

95 Perry Street Buffalo, NY 14203-3030 (716) 846-8200



LANDSCAPE ARCHITECT

TWMLA - A Fisher Associates Studio Fisher Associates, P.E., L.S., L.A., D.P.C. 1001 West Seneca Street, Suite 201 Ithaca, NY 14850 (607) 277-1400

STRUCTURAL/CIVIL ENGINEER

WSP USA 50 Lakefront Boulevard, Suite 111 Buffalo, NY 14202 (716) 853-1220

ARCHITECT

Chiang O'Brien Architects, DPC 214 North Aurora Street Ithaca, New York 14850 (607) 241-0244

HABITAT RESTORATION

Biohabitats, Inc. **Great Lakes Bioregion** 2026 Murray Hill Road, Suite102 Cleveland, OH 44106 (216) 539-7851

LIGHTING DESIGNER

Tillett Lighting Design Associates, Inc. 15 Maiden Lane Suite 508 New York, NY 10038 (347) 970-8841

M/E/P

Encorus Group 23 Mechanic St. Springville, NY 14141 (716) 592-3980

FOOD SERVICE CONSULTANT

Clevenger Frable LaVallee 39 Westmoreland Ave. White Plains, NY 10606 (914) 997-9660

ENVIRONMENTAL ENGINEERING

The LiRo Group 690 Delaware Avenue Buffalo, NY 14209 (716) 882-5476

SURVEYOR

Ravi Engineering & Land Surveying, P.C. 2110 South Clinton Avenue, Suite 1 Rochester, NY 14618 (585) 223-3660

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roject Erie Canal Harbo Buffalo Civic Pr

DATE:	5/4/2023
PROJECT:	19016.02 WILKESON
PHASE:	BID DOCUMENTS
DRAWN BY:	ZDR; TBB; JG
CHECKED:	ZDR

COVER

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Project Information

Wilkeson Pointe	
Construction Classicification	IIB
Sprinkler Protection	No
Building Use Classification	A2
Building Area (sf)	2,425
East portion with kitchen	2,096
West portion with toilets	329

Opaque Thermal Envelope

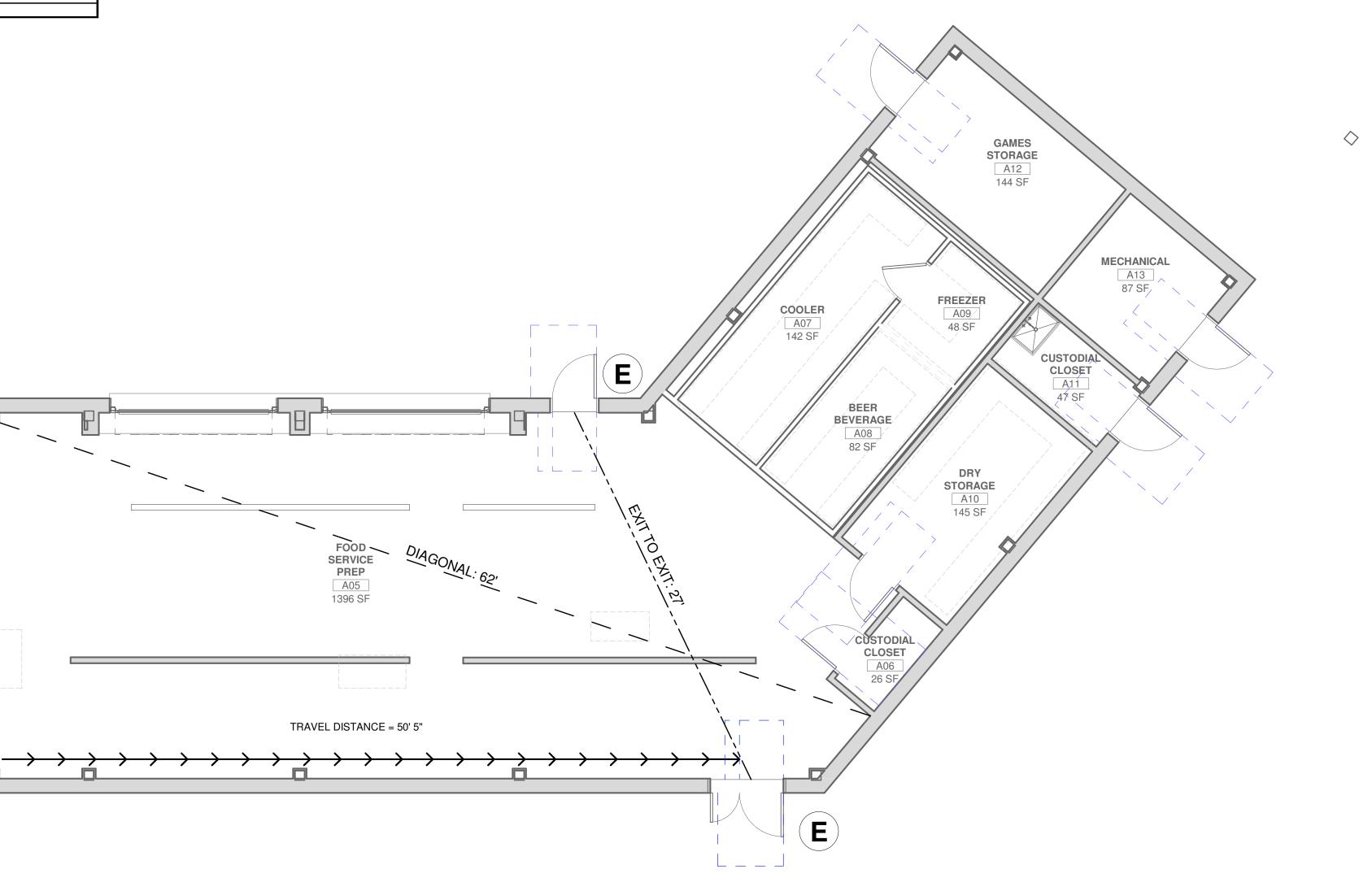
Reference Standard: 2020 Energy Conservation Code of NYS Erie County per Table C301.1: Climate Zone 5A

	Codo reference	Doguirod	Provided	Compliant Notes
	Code reference	Required	Provided	Compilant Notes
Opaque Thermal Envelope Assembly Ma	aximum Requirements, U-F	actor Method		
Roofs, metal building	Table C402.1.4	U-0.035	U-0.030	Continuous: 1" Rigid Polyiso = R6.2. Cavity 6-1/2" Closed-cell spray foam plus infilled flutes in deck @ R6.2/inch = R-40.5. ASHRAE 90.1 derates any R-value greater than R-38 to R-38.
Walls, above grade, metal framed	"	U-0.064	U-0.043	Continuous: 2" Rigid polyiso insulation (2" x R-6.2/in = R-12.4) Cavity: 4" Closed cell spray foam insulation (4" x R-6.2 = R-24.8) adjusted for Steel Framing
Slab-on-grade floors, unheated	п	F-0.540	F-0.51	2" Rigid Polyiso 3' vertical and 2' horizontal, R-12.4. F-Factor per ASHRAE 90.1 Table A6.3.1
Building Envelope Fenestration Max U-F	Factor & SHGC			
Fixed fenestration	Table C402.4	U-0.38	U-036	
Entrance doors	"	U-0.77	U-038	
SHGC PF <0.2	"	0.38	N/A	- No windows with a Projection Facor <0.2.
SHGC PF ≤0.2 PF >0.5		0.46	0.21	Window without multiplier SHGC 0.28. Lowest PF is 0.36, multiliplier 0.74 on S side.
SHGC PF ≥0.5	"	0.61	0.01	Window before multiplier SHGC 0.28. Typical PF is 0.8, multiliplier 0.47 on S side.
Vertical Fenestration Maximum Area				
Bell Slip	Table C402.4.1	30%	25.8%	
Wilkinson Pointe	"	30%	29.3%	
Maximum Air Leakage for Fenestration	Assemblies			
Swinging doors	Table C402.5.2	0.20 cfm/sq2	0.10 cfm/sq2	
Storefront glazing	п	0.06 cfm/sq2	0.06 cfm/sq2	
Rolling doors	п	1.00 cfm/sq2	0.30 cfm/sq2	

A02

TOILETA0474 SF

	SYMBOL ON DRAWING (IF APPLICABLE)
(1) LOCATION OF EXITS	E
(2) EXIT ACCESS TRAVEL DISTANCE: DISTANCE TO EXITS FROM THE MOST REMOTE POINT IN THE MOST REMOTE ROOM ON THE FLOOR	$\longrightarrow\!$
(3) DIRECTION OF EGRESS TRAVEL, INCLUDING DIRECTION OF SWING OF DOORS	DIRECTION OF EGRESS TRAVEL INDICATED BY OR DIRECTION OF DOOR SWING IS SHOWN GRAPHICALLY FOR EACH DOOR
(4) COMMON PATH OF EGRESS TRAVEL	$-\!$
(5) REMOTENESS OF EXITS	
(6) MINIMUM 1 HOUR CONSTRUCTION	
(7) MINIMUM 2 HOUR CONSTRUCTION	
(8) SMOKE BARRIER (1 HOUR CONSTRUCTION)	••••••
(9) SMOKE PARTITION	
(10) DEAD END CORRIDOR	▶ · · · → · · · →
(11) CONTRACT LIMIT LINE	



A1 CODE PLAN
3/16" = 1'-0"

TOILET
A03
71 SF

CODE &
ACCESSIBILITY
CONFORMANCE
PLAN

5/4/2023

BID DOCUMENTS

PROJECT: 19016.02

G100

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Chiang O'Brien ARCHITECTS

BID DOCUMENTS

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Activation 7 Pointe

Access & Ac 2 - Wilkeson Harbor Phase 2 roject, Erie Canal Harbo

Buffalo

Civic Pr

225 Fuhrmann B

DRAWN BY: MD, AR CHECKED: ---

GENERAL SOIL NOTES:

EROSION AND SEDIMENT CONTROL NOTES:

- 1. THE CONTRACTOR SHALL EMPLOY EFFECTIVE EROSION AND SEDIMENT CONTROL PRACTICES DURING CONSTRUCTION, AS SET FORTH IN THE CITY'S AND NYSDEC'S STATEWIDE STORMWATER AND EROSION CONTROL SPECIFICATIONS.
- 2. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED AND OPERATIONAL PRIOR TO EARTHWORK OPERATIONS. PRACTICES SHALL REMAIN OPERATIONAL UNTIL STABILIZATION OF
- 3. THE PROJECT IS LOCATED WITHIN A COUNTY/CITY OWNED COMBINED SANITARY/STORM SEWER AREA. A STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM (SPDES) PERMIT WILL NOT BE REQUIRED.
- 4. STORM WATER DISCHARGES SHALL NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF WATER QUALITY STANDARDS INCLUDING BUT NOT LIMITED TO THESE PROVISIONS:
- 4.A. THERE SHALL BE NO INCREASE IN TURBIDITY THAT WILL CAUSE A SUBSTANTIAL VISIBLE CONTRAST TO NATURAL CONDITIONS
- THERE SHALL BE NO SUSPENDED OR SETTLEABLE SOLIDS THAT WILL CAUSE DEPOSITION OR IMPAIR THE RECEIVING WATERS FOR THEIR BEST USES.
- THERE SHALL BE NO DISCHARGE OF RESIDUES FROM PETROLEUM PRODUCTS, CHEMICAL PRODUCTS OR FLOATING SUBSTANCES.
- 5. EARTHWORK SHALL BE PERFORMED ONLY WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THE EXISTING WEATHER CONDITIONS AND THE WEATHER FORECAST TO DETERMINE IF THE CONDITIONS AT HAND ARE SUITABLE TO THE COMMENCEMENT OF WORK EACH DAY. NO EARTHWORK SHALL BE PERMITTED DURING PERIODS OF HEAVY PRECIPITATION.
- 6. CLEARING AND GRADING SHALL BE PERFORMED TO MINIMIZE DISTURBANCE OF GROUND COVER, ONLY THE SMALLEST AREA THAT IS PRACTICAL SHALL BE DISTURBED AT ANY ONE TIME.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING DUST ORIGINATING FROM ITS CONSTRUCTION OPERATIONS TO THE SATISFACTION OF THE OWNER. THE CONTRACTOR SHALL SUPPLY THE NECESSARY EQUIPMENT AND MATERIALS TO ACCOMPLISH ADEQUATE DUST CONTROL.
- 8. THESE PLANS AND SUPPORTING DOCUMENTS PREPARED BY THE OWNER AND INCORPORATED HEREIN, THE "NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL" ARE THE MINIMUM ANTICIPATED EROSION AND SEDIMENT CONTROL MEASURES REQUIRED FOR THE DEVELOPMENT AS PROPOSED. ADDITIONAL MEASURES DEEMED NECESSARY DURING CONSTRUCTION BY THE NYSDEC, MUNICIPALITIES, OR THE QUALIFIED PROFESSIONAL SHALL BE CONSTRUCTED AND MAINTAINED BY THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.
- 9. ALL DISTURBED AREAS SHALL BE STABILIZED WITH EITHER TEMPORARY OR PERMANENT SEED MIXES AND MULCHED AS SOON AS CONSTRUCTION PRACTICES AND WEATHER PERMIT. DISTURBED AREAS. INCLUDING TOPSOIL STOCKPILES SHALL NOT REMAIN UNSTABLE FOR MORE THAN SEVEN (7) CONSECUTIVE DAYS AFTER CONSTRUCTION DISTURBANCE ACTIVITIES IN THE AREA HAVE TEMPORARILY OR PERMANENTLY CEASED, UNLESS CONSTRUCTION IS SCHEDULED TO RESUME WITHIN 14 DAYS.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE STORM WATER CONTROL DEVICES REMAIN IN PLACE AND FUNCTIONAL BY CLEANING, REPAIRING, AND/OR REPLACING THEM WHENEVER NECESSARY OR AS DIRECTED BY THE QUALIFIED PROFESSIONAL, UNTIL FINAL STABILIZATION IS ACHIEVED. THIS MAINTENANCE OF THE PRACTICES SHALL BE INCLUDED AT NO EXTRA COST TO THE
- 11. CONTRACTOR SHALL NOT ALLOW VEHICLE SEDIMENT TRACKING ONTO PUBLIC ROADWAYS.
- 12. INSPECTION, PERIODIC CLEANING, AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONDUCTED BY THE CONTRACTOR ON A WEEKLY AND POST-RAINFALL BASIS. MAINTENANCE REPAIRS SHALL BE CONDUCTED WITHIN 24 HOURS.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL EROSION AND SEDIMENT CONTROL DEVICES WHEN SPECIFIED BY THE QUALIFIED PROFESSIONAL AT NO EXTRA COST.
- 14. FINAL STABILIZATION SHALL MEAN THAT ALL SOIL-DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED, A UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 80 PERCENT HAS BEEN ESTABLISHED, OR EQUIVALENT STABILIZATION MEASURES HAVE BEEN EMPLOYED ON ALL PERVIOUS AREAS, AND ALL IMPERVIOUS COVERS HAVE BEEN INSTALLED.
- 15. CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS OF THE CLEAN WATER ACT. ANY PENALTIES OR FINES ASSOCIATED WITH EROSION AND SEDIMENT CONTROL OR STORMWATER MANAGEMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL INSTALL ADDITIONAL PRACTICES AS NECESSARY TO PREVENT OFF-SITE SEDIMENT MIGRATION OR WATER QUALITY VIOLATIONS.
- 16. THE CONTRACTOR SHALL NOTIFY THE OWNER WHEN CONSTRUCTION IS COMPLETE AND WHEN FINAL STABILIZATION OF THE AREAS TO BE DISTURBED IS COMPLETE.

- 1. CONTAMINATED SOILS ARE KNOWN TO BE PRESENT AT THE SITE. ALL EXCAVATED MATERIALS SHALL BE MANAGED IN ACCORDANCE WITH THE SPECIFICATION SECTION 01 7149. SEE SPECIFICATION FOR REQUIREMENTS FOR STOCKPILING, TESTING, REUSE, AND DISPOSAL PER NYSDEC REGULATIONS.
- 2. NO CONTAMINATED RECLAIMED SOILS MAY BE USED WITHIN THE TOP 12" OF FINISH GRADE OF PLANTED AREAS EXCEPT THOSE AREAS THAT ARE ENCLOSED IN PERMANENT FENCE.

GENERAL CONSTRUCTION NOTES:

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING THAT ALL NECESSARY PERMITS ARE IN PLACE PRIOR TO COMMENCING WORK.
- 2. ALL WORK SHALL CONFORM TO THE GENERAL PROVISIONS AS STATED IN CONSTRUCTION SPECIFICATIONS.
- 3. THE CONTRACTOR SHALL EXAMINE AND VERIFY IN THE FIELD ALL CONDITIONS AND DIMENSIONS. IF FIELD CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL USE THE FIELD CONDITIONS AND DIMENSIONS AND MAKE THE APPROPRIATE CHANGES TO THOSE SHOWN ON THE PLANS AS APPROVED BY THE LANDSCAPE ARCHITECT. THE RESULTS OF THIS CHECK OF CONDITIONS AND DIMENSIONS SHALL BE SO NOTED ON THE DRAWINGS SUBMITTED FOR APPROVAL. THERE SHALL BE NO CLAIM AGAINST THE OWNER MADE BY THE CONTRACTOR FOR WORK PERTAINING TO MODIFICATIONS AS MAY BE REQUIRED DUE TO ANY DIFFERENCE BETWEEN ACTUAL FIELD CONDITIONS AND THOSE SHOWN BY THE DETAILS AND DIMENSIONS ON THE CONTRACT PLANS.
- 4. THE CONTRACTOR IS HELD RESPONSIBLE FOR ALL DAMAGES TO THE EXISTING FACILITY CAUSED BY HIS OPERATIONS WHICH IS NOT INCLUDED AS PART OF THE INTENDED WORK. ALL DAMAGE TO EXISTING FACILITY WHICH IS NOT PART OF THE INTENDED WORK SHALL BE REPAIRED BY THE CONTRACTOR WITHOUT COST TO THE OWNER AND TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT.
- THE CONTRACTOR SHALL EXERCISE CARE IN HIS REMOVAL OPERATIONS SO AS NOT TO UNDULY DISTURB UNDERLYING MATERIALS WHICH ARE TO REMAIN IN PLACE. THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF THE OWNER, WILL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF THE OWNER, THE DAMAGED MATERIAL SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE OWNER AT THE EXPENSE OF THE CONTRACTOR.
- IT WILL BE THE CONTRACTOR'S OBLIGATION AND RESPONSIBILITY TO USE METHODS AND EQUIPMENT WHICH WILL ENSURE THE SATISFACTORY COMPLETION OF THE REQUIRED WORK WITH A MINIMUM OF
- THE CONTRACTOR IS ADVISED THAT ADDITIONAL "NOTES" WILL BE FOUND ON SUBSEQUENT SHEETS OF THE CONTRACT PLANS, AND THAT SUCH "NOTES," WHILE PERTAINING TO THE SPECIFIC SHEETS THEY ARE PLACED ON, ALSO SUPPLEMENT THE GENERAL NOTES LISTED HEREIN.
- CARE SHALL BE TAKEN TO RETAIN NATURAL GROWTH AND PREVENT DAMAGE TO TREES WITHIN AND OUTSIDE THE LIMITS OF CONSTRUCTION AND NOT SCHEDULED FOR REMOVAL. ANY DAMAGE CAUSED TO THIS NATURAL GROWTH SHALL BE RESTORED AT THE EXPENSE OF THE CONTRACTOR AS DIRECTED BY
- 9. THE CONTRACTOR SHALL BE REQUIRED TO PROTECT HIS WORKERS AT ALL TIMES IN CONFORMANCE WITH ANY ITEM ON THIS DOCUMENT WHO ALTERS ALL APPLICABLE REGULATIONS.
- 10. THE CONTRACTOR IS TO VISIT THE SITE BEFORE BIDDING TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO JUDGE FOR HIMSELF THE EXTENT AND NATURE OF THE WORK TO BE DONE UNDER THIS CONTRACT. NO EXTRA COMPENSATION WILL BE ALLOWED HIM BECAUSE OF HIS FAILURE TO INCLUDE IN HIS BID ALL ITEMS AND MATERIALS WHICH HE IS REQUIRED TO FURNISH IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 11. WHENEVER ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED OF, THE COST OF SUPPLYING DISPOSAL AND TRANSPORTATION TO THE AREA SHALL BE INCLUDED IN THE BID. ALL DISPOSAL AREAS MUST BE APPROVED BY THE OWNER PRIOR TO USE.
- 12. CONSTRUCTION SEQUENCE IS THE RESPONSIBILITY OF THE CONTRACTOR. BEFORE COMMENCING WORK THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SEQUENCE TO THE ENGINEER FOR APPROVAL. THE CONSTRUCTION OUTLINE SHALL INCLUDE THE PROPOSED METHODS AND MANNER OF EXECUTING THE WORK, INCLUDING SEQUENCES OF OPERATION AND A TIME SCHEDULE FOR PERFORMING THE SAME.

- 1. LOCATION OF UTILITIES, PUBLIC AND/OR PRIVATE, INDICATED AS EXISTING AND/OR TO BE CONSTRUCTED AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THEIR EXACT LOCATION SHALL BE DETERMINED IN THE FIELD. ADDITIONAL UTILITY LINES, WHETHER ABANDONED OR IN SERVICE, MAY EXIST AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONDUCT HIS OPERATIONS AND TAKE THE NECESSARY PRECAUTIONS TO PREVENT INTERFERENCE WITH OR DAMAGE TO THESE AND OTHER FACILITIES DURING THE COURSE OF CONSTRUCTION. IN THE EVENT THAT THE CONTRACTOR DAMAGES AN EXISTING UTILITY SERVICE CAUSING AN INTERRUPTION IN SAID SERVICE, HE SHALL IMMEDIATELY COMMENCE WORK TO RESTORE SERVICE AND MAY NOT CEASE HIS WORK OPERATION UNTIL SERVICE IS RESTORED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES ENCOUNTERED IN THE WORK COMPLETED UNDER THIS CONTRACT. WHERE NECESSARY, THE CONTRACTOR SHALL PROVIDE TIMBER, PLANK OR OTHER APPROVED MATERIALS AND SECURELY BRACE AND PROTECT THESE UTILITIES.

GENERAL GRADING NOTES

- 1. SITE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES HAVING UNDERGROUND UTILITIES ON SITE OR IN RIGHT-OF-WAY PRIOR TO EXCAVATION. CONTRACTOR SHALL CONTACT UTILITY LOCATING COMPANY AND LOCATE ALL UTILITIES PRIOR TO GRADING START.
- 2. GRADING WITHIN CRITICAL ROOT ZONES ("CRZ'S") OF EXISTING TREES TO REMAIN TO BE MINIMIZED AND AS APPROVED BY LANDSCAPE ARCHITECT. CHANGES IN GRADE WITHIN THE CRZ THAT EXCEED 3" SHALL NOT OCCUR WITHOUT WRITTEN APPROVAL FROM THE LANDSCAPE ARCHITECT.
- 3. MINIMIZE IMPACT TO EXISTING, REMAINING LANDSCAPE WHILE EXCAVATING. GREAT CARE IS TO BE TAKEN TO AVOID DISTURBING ROOTS OF EXISTING TREES.
- 4. EXISTING UTILITY COVERS AND GRATES NOTED WITHIN THE AREA OF DISTURBANCE ARE TO BE ADJUSTED TO MEET PROPOSED GRADES. MONITORING WELLS SHALL NOT BE ADJUSTED OR DISTURBED.
- 5. MATCH EXISTING GRADE AT ALL EDGES WHERE PROJECT WORK MEETS EXISTING SITE.
- 6. SEE CIVIL, ELECTRICAL, AND PLUMBING DRAWINGS FOR PROPOSED UTILITIES.

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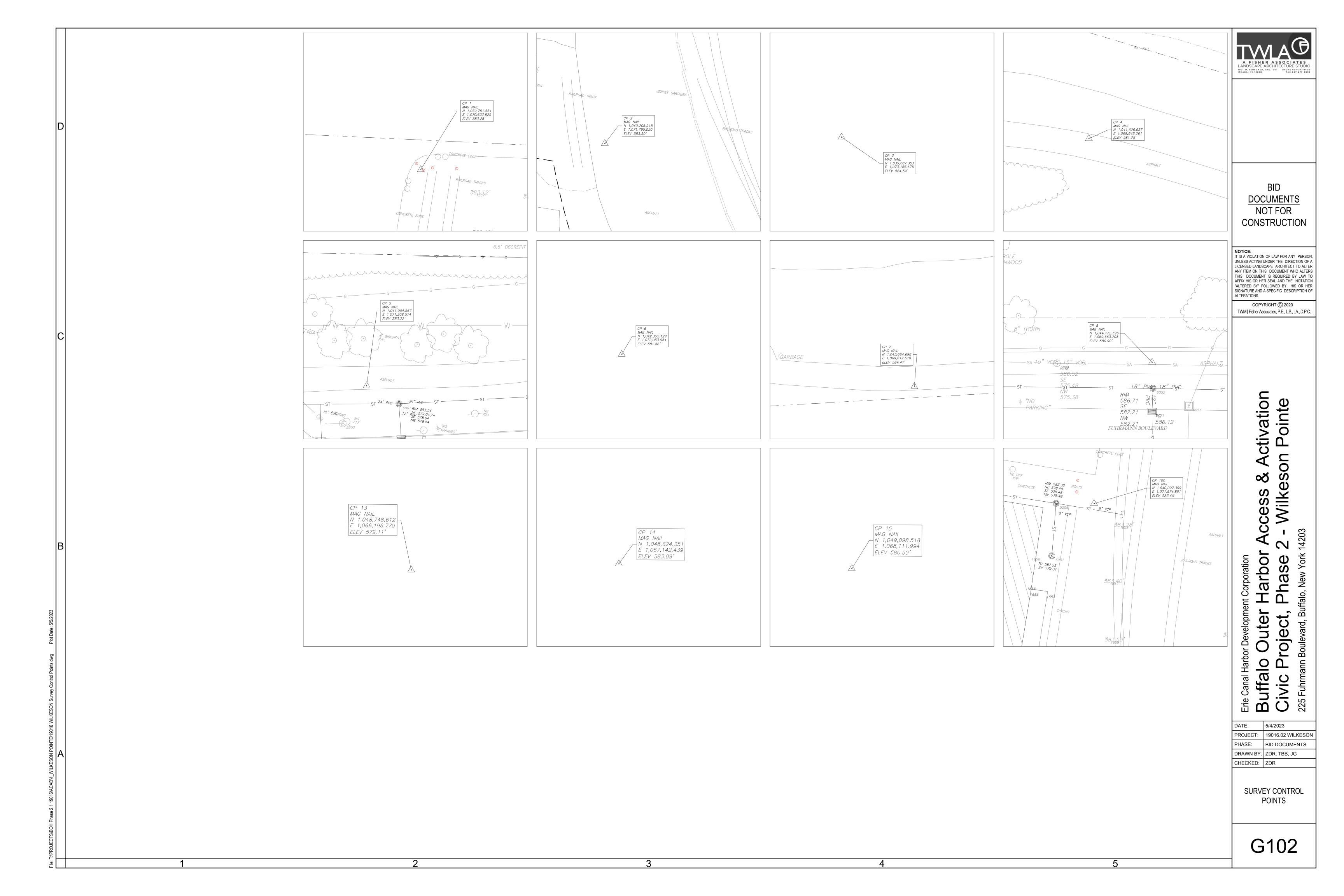
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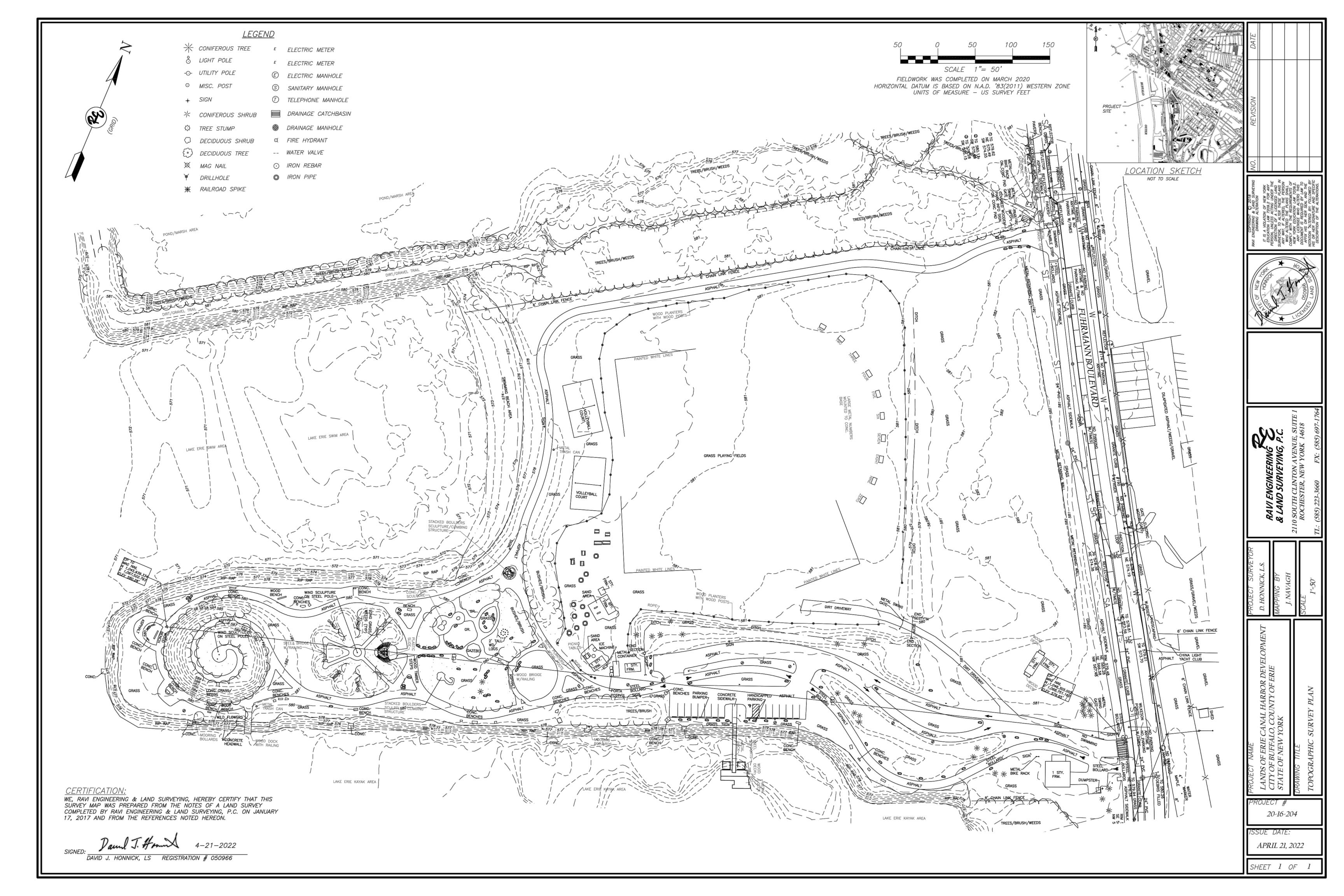
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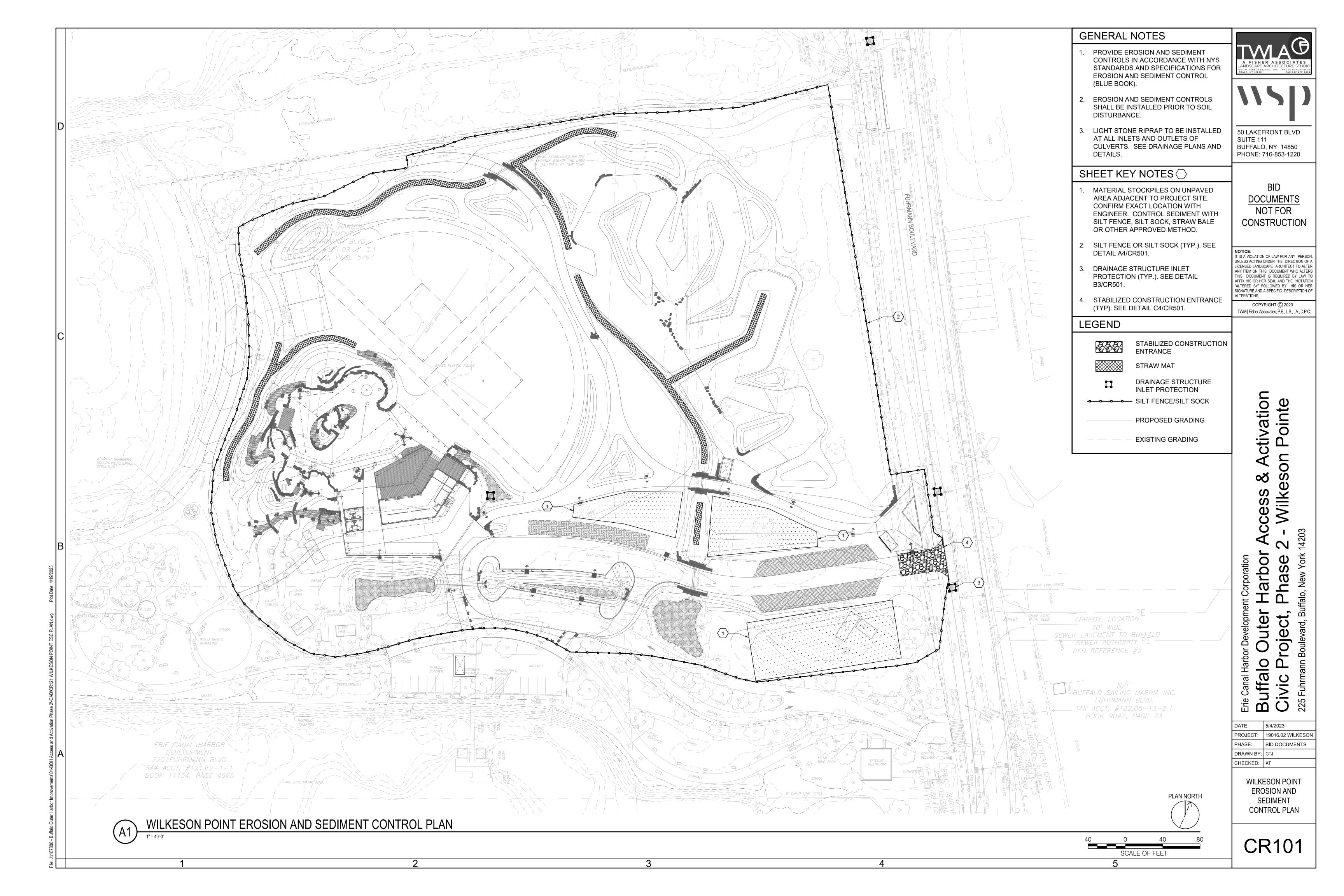
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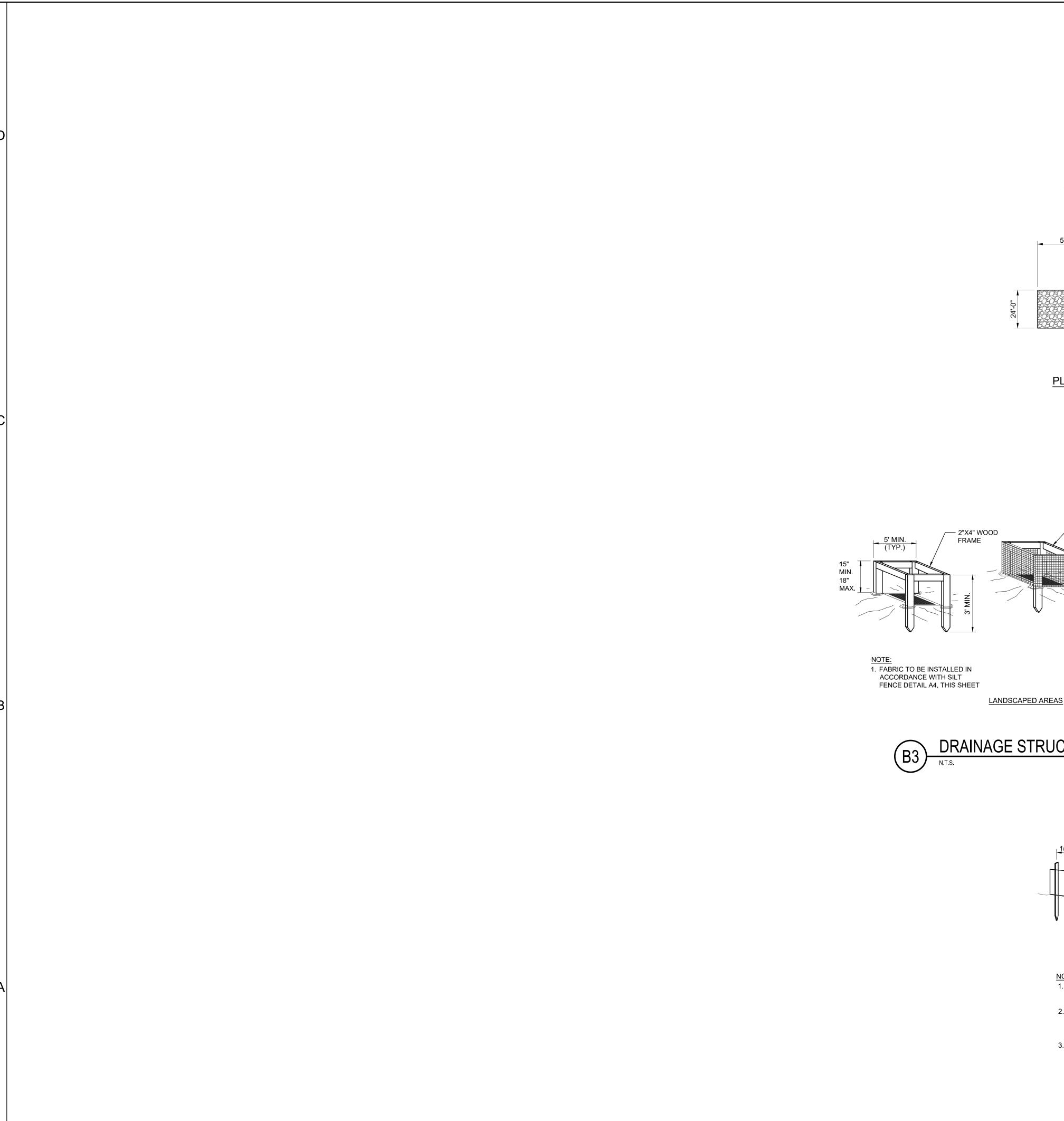
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G101









NOTES

- 6" SUBBASE COURSE,

EXISTING GROUND

- GEOTEXTILE SEPARATION

TYPE 2

FABRIC

- EDGE OF

— GATHER EXCESS

AT CORNERS

PAVEMENT

SECTION

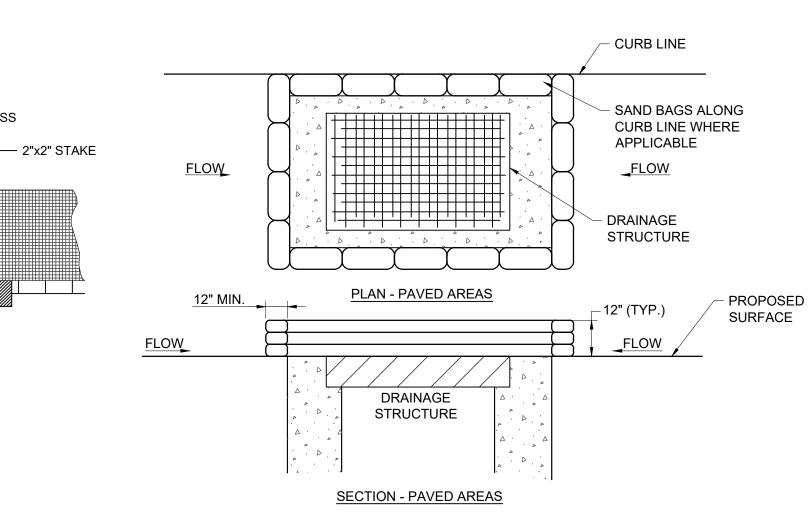
50'-0" MIN.

R25' -

PLAN VIEW

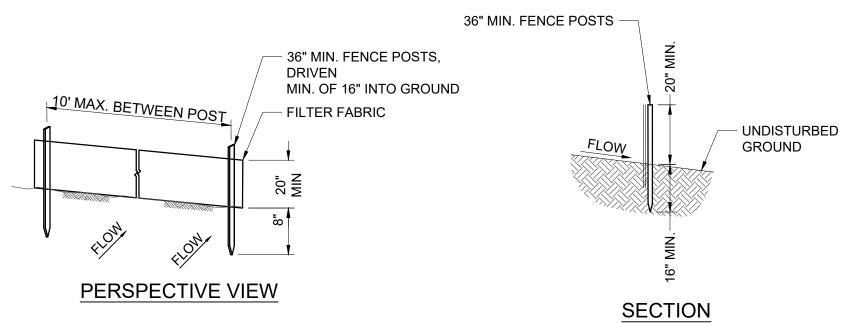
- 1. LENGTH NOT LESS THAN FIFTY (50) FEET. THICKNESS NOT LESS THAN SIX (6) INCHES.
- 2. WIDTH TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
- GEOTEXTILE SEPARATION FABRIC WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- 4. SURFACE WATER ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- 5. MAINTENANCE THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT -OF-WAYS MUST BE REMOVED IMMEDIATELY.
- 6. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- 7. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

CONSTRUCTION ENTRANCE DETAIL N.T.S.



DRAINAGE STRUCTURE INLET PROTECTION N.T.S.

FABRIC EXTENDS 1' MIN.



NOTES:

- FILTER CLOTH TO BE FASTENED SECURELY TO EACH POST IN NO LESS THAN 4 LOCATIONS.
- 2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
- 3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" OCCUR IN THE SILT FENCE.

POSTS: STEEL EITHER "T" OR "U" TYPE OR 2" (NOMINAL) HARDWOOD

FILTER CLOTH: AS SPECIFIED

PREFABRICATED UNIT: AS SPECIFIED



CR501

A FISHER ASSOCIATES
LANDSCAPE ARCHITECTURE STUDIO
1001 W. SENECA ST, STE. 201 PHONE 607-277-140
11HACA, NY 14850 PAX 607-277-601

50 LAKEFRONT BLVD

BUFFALO, NY 14850 PHONE: 716-853-1220

SUITE 111

BID DOCUMENTS

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ter Harbor Access & Activation ct, Phase 2 - Wilkeson Pointe

Erie Canal Harbor Development Corporation

Buffalo Outer Harbor A

Civic Project, Phase 2

PROJECT: 19016.02 WILKESON

WILKESON POINT

EROSION AND

SEDIMENT CONTROL

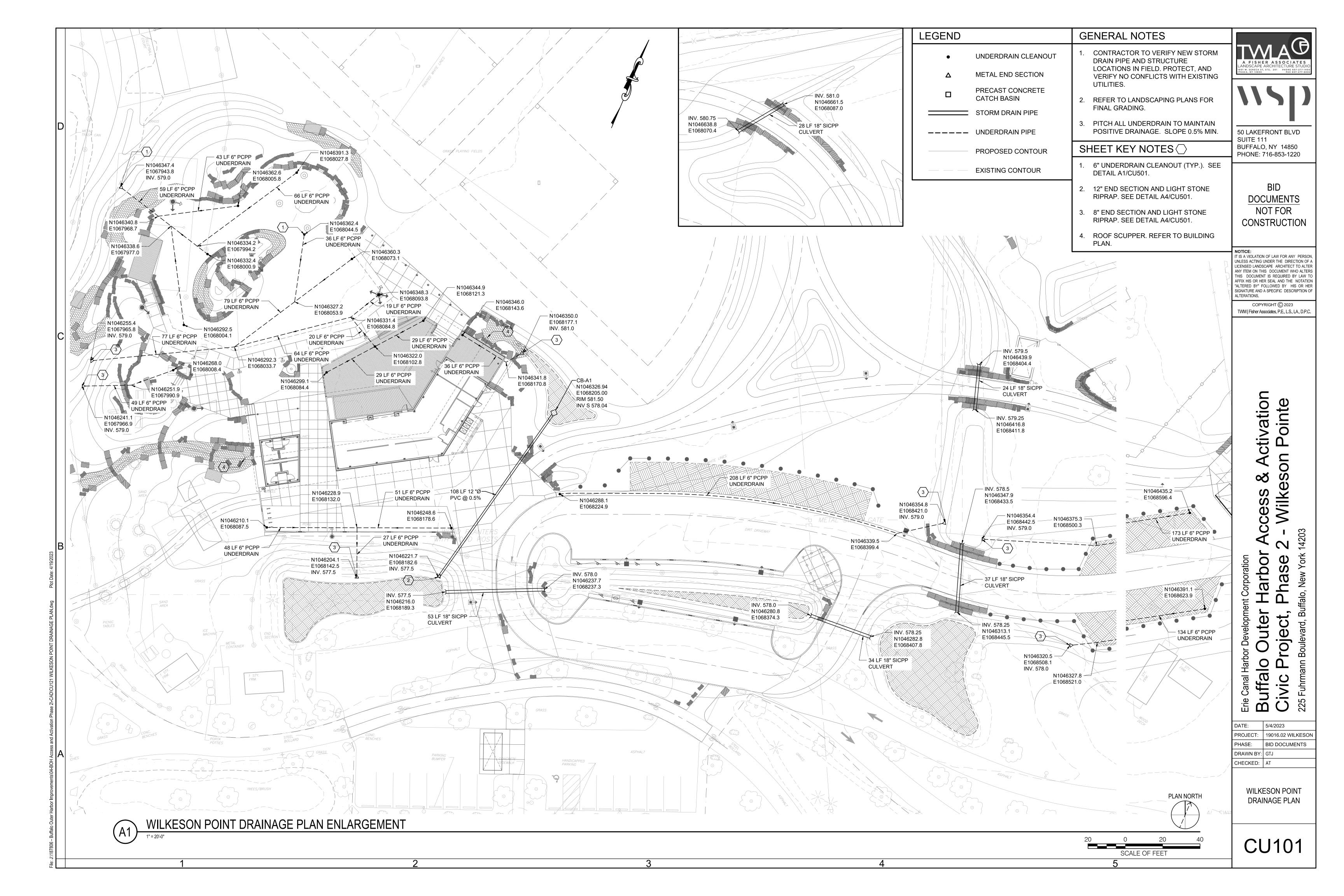
DETAILS

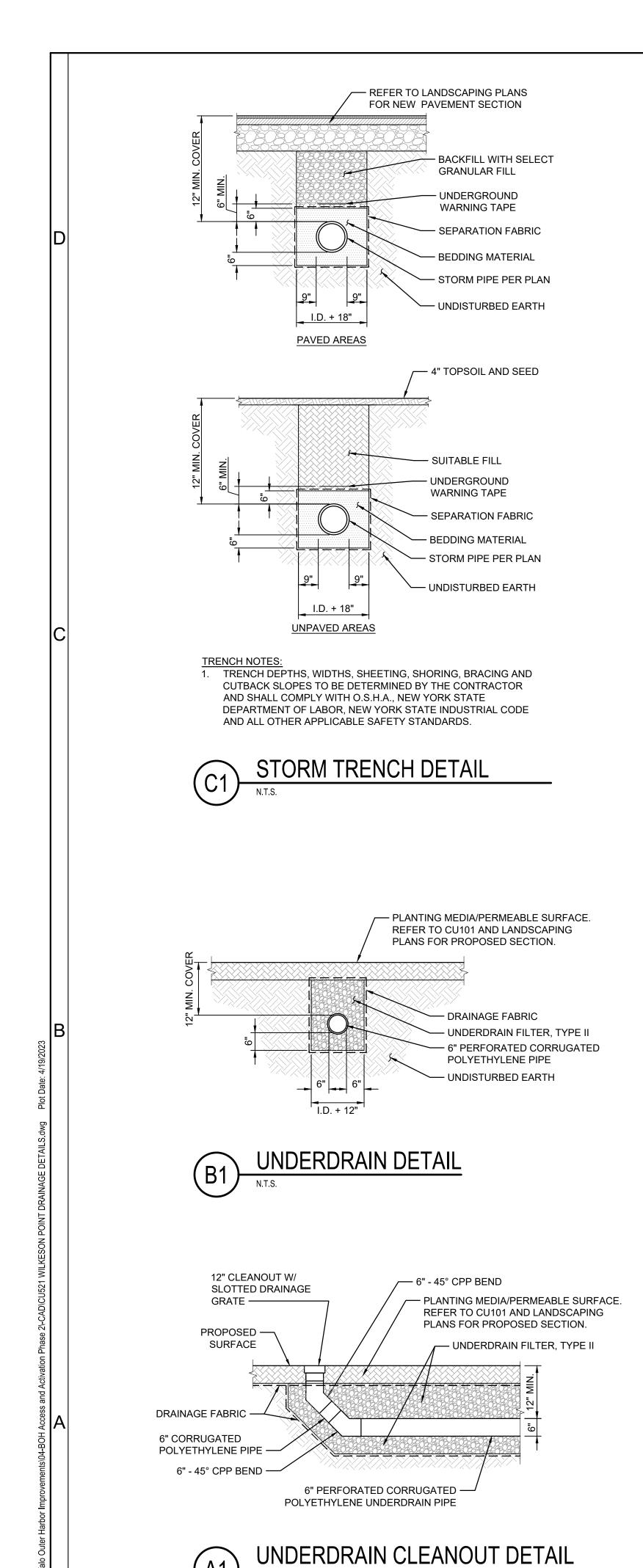
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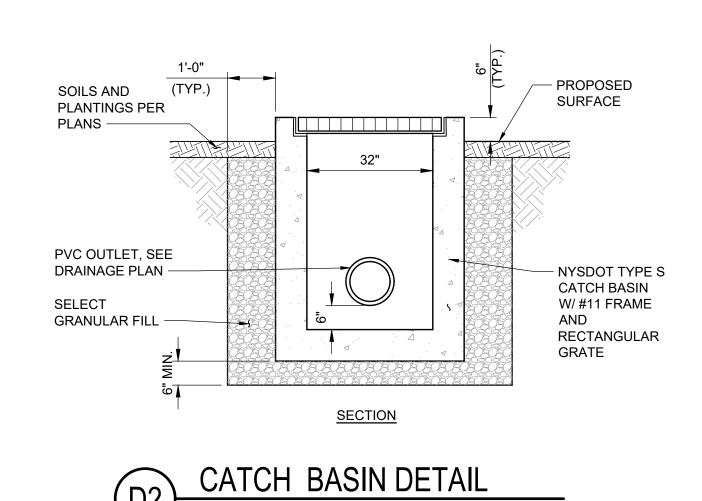
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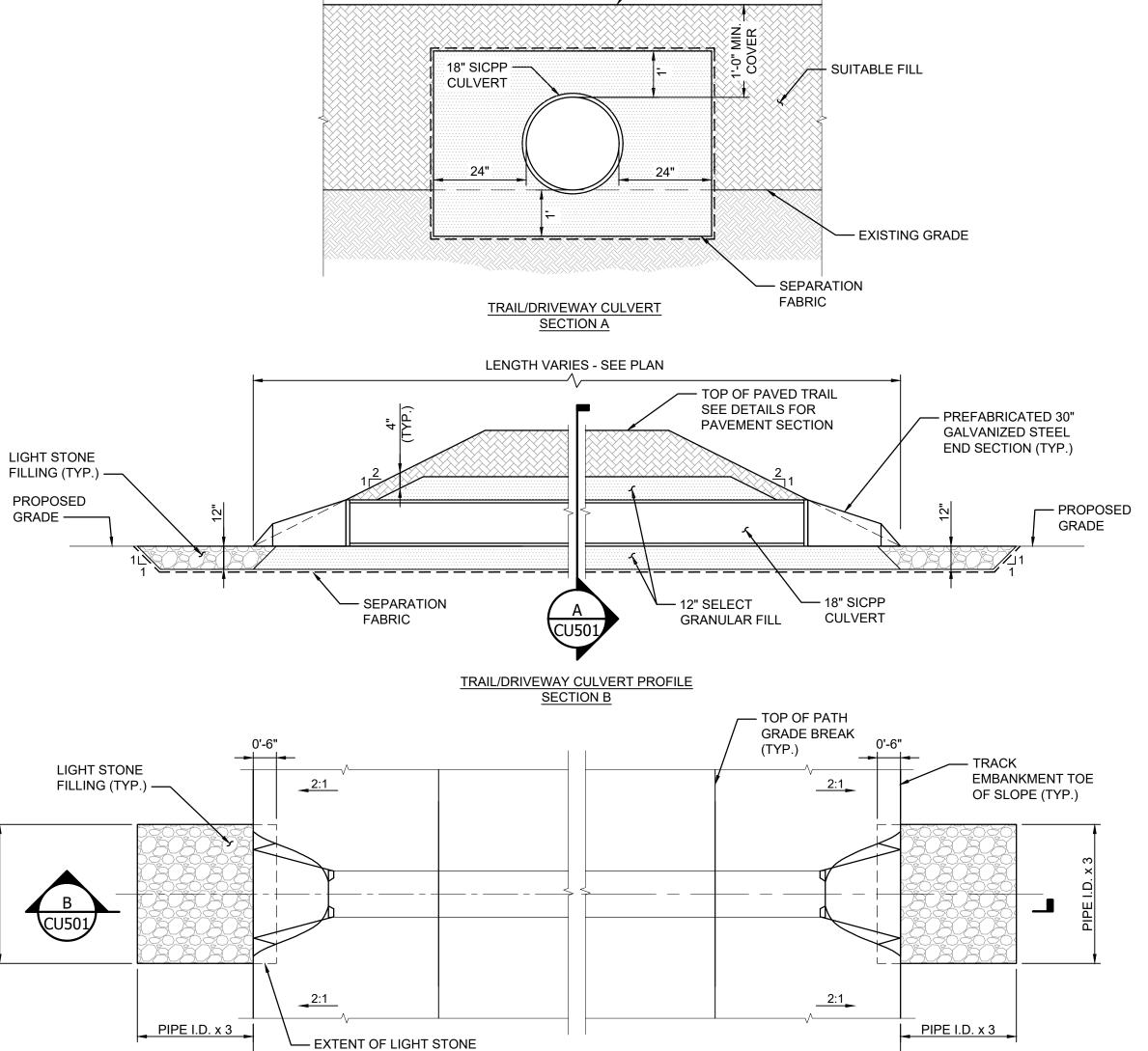
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LENGTH VARIES - SEE PLAN

TRAIL/DRIVEWAY CULVERT PLAN

1. SEE PLAN, SHEET

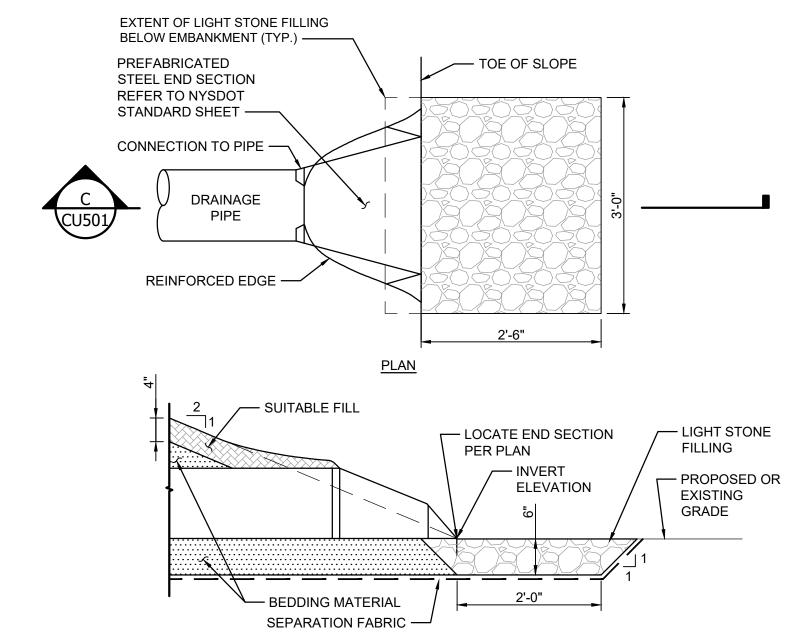
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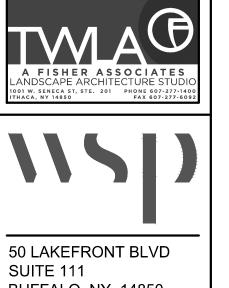
(TYP.)

TOP OF PAVED TRAIL/ASPHALT WALKWAY - SEE C5/L-501 FOR

PAVEMENT SECTION



SECTION C



SUITE 111 BUFFALO, NY 14850 PHONE: 716-853-1220

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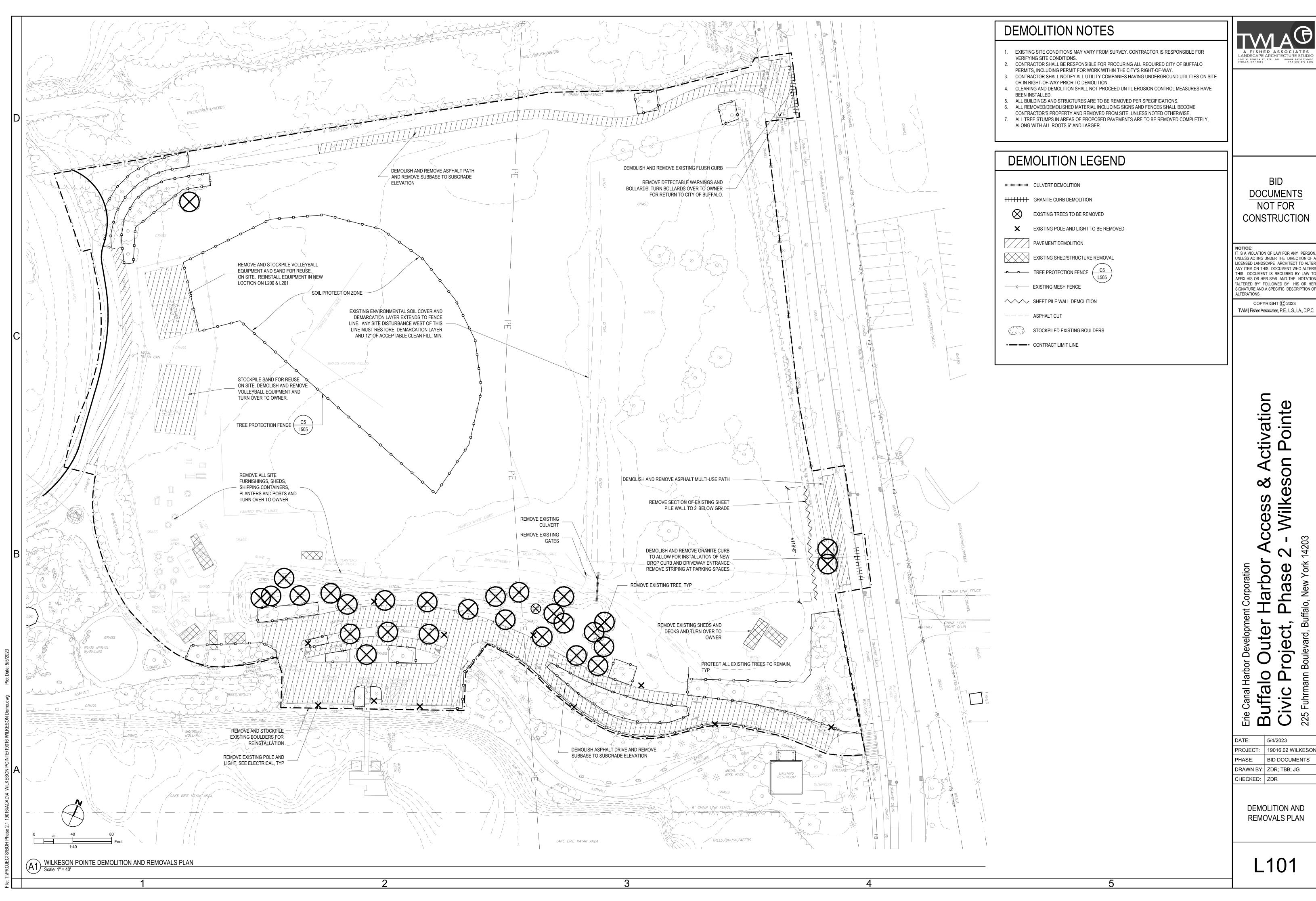
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Outer Harbor Access & Activation roject, Phase 2 - Wilkeson Pointe

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WILKESON POINT DRAINAGE DETAILS

CU501



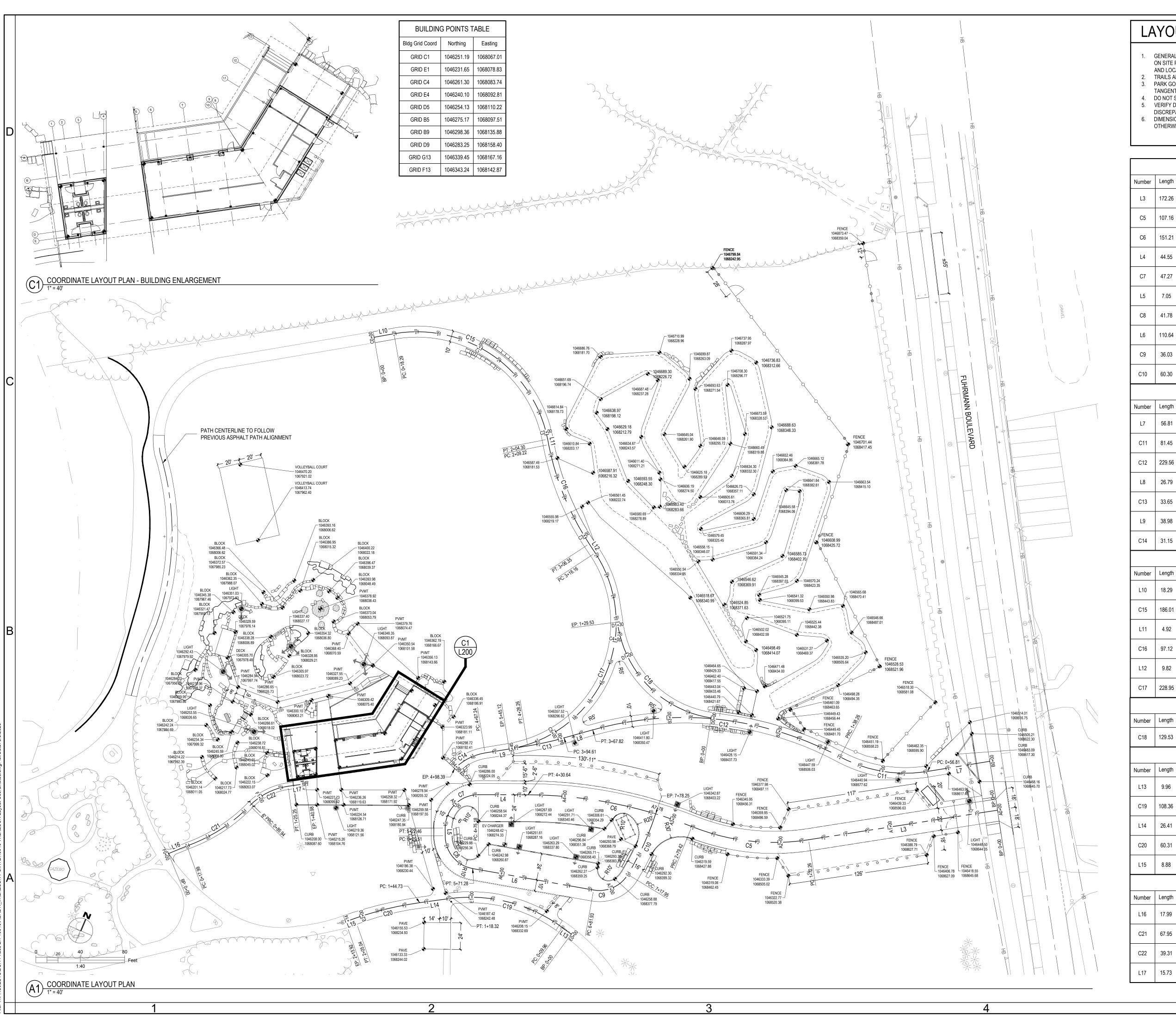
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> **DEMOLITION AND** REMOVALS PLAN



LAYOUT NOTES

- GENERAL CONTRACTOR SHALL NOTIFY ALL UTILITY OWNERS HAVING UNDERGROUND UTILITIES ON SITE PRIOR TO EXCAVATION. CONTRACTOR SHALL CONTACT UTILITY LOCATING COMPANY AND LOCATE ALL UTILITIES PRIOR TO ANY EXCAVATION.
- TRAILS AND PLAZA TO BE STAKED OUT IN THE FIELD BY A LICENSED SURVEYOR. PARK GOLF COURSE AND BEER GARDEN EDGES SHALL BE CONSTRUCTED WITH SMOOTH TANGENTIAL CURVATURE. LANDSCAPE ARCHITECT TO FIELD VERIFY.
- DO NOT SCALE BY MEASURING DRAWINGS. VERIFY DIMENSIONS AND ACCEPT CONDITIONS BEFORE PROCEEDING WITH WORK. REPORT
- DISCREPANCIES TO LANDSCAPE ARCHITECT BEFORE PROCEEDING. 6. DIMENSIONS TO WALLS, CURBS, AND OTHER FEATURES ARE TO EXPOSED FACES UNLESS OTHERWISE NOTED.

			ALIGNMENT 'A	•	
Number	Length	Radius	Line/Chord Direction	Start	End
L3	172.26		S58° 02' 32.17"W	N: 1046450.87 E: 1068670.57	N: 1046359.69 E: 1068524.42
C5	107.16	200.00	S73° 23' 32.47"W	N: 1046359.69 E: 1068524.42	N: 1046329.43 E: 1068422.95
C6	151.21	400.00	S77° 54' 45.59"W	N: 1046329.43 E: 1068422.95	N: 1046297.95 E: 1068275.97
L4	44.55		S67° 04' 58.40"W	N: 1046297.95 E: 1068275.97	N: 1046280.61 E: 1068234.94
C7	47.27	30.00	S21° 56' 22.39"W	N: 1046280.61 E: 1068234.94	N: 1046241.16 E: 1068219.05
L5	7.05		S23° 12' 13.62"E	N: 1046241.16 E: 1068219.05	N: 1046234.67 E: 1068221.82
C8	41.78	30.00	S63° 05' 47.66"E	N: 1046234.67 E: 1068221.82	N: 1046217.26 E: 1068256.14
L6	110.64		N77° 00' 38.29"E	N: 1046217.26 E: 1068256.14	N: 1046242.13 E: 1068363.95
C9	36.03	30.00	N42° 36' 29.80"E	N: 1046242.13 E: 1068363.95	N: 1046267.08 E: 1068386.90
C10	60.30	259.99	N1° 33' 42.40"E	N: 1046267.08 E: 1068386.90	N: 1046327.22 E: 1068388.54
	'		ALIGNMENT 'B	•	
Number	Length	Radius	Line/Chord Direction	Start	End
L7	56.81		S57° 44' 39.88"W	N: 1046488.66 E: 1068646.96	N: 1046458.34 E: 1068598.92
C11	81.45	125.00	S76° 24' 39.10"W	N: 1046458.34 E: 1068598.92	N: 1046439.54 E: 1068521.14
C12	229.56	300.00	S73° 09' 22.99"W	N: 1046439.54 E: 1068521.14	N: 1046374.64 E: 1068306.76
L8	26.79		S51° 14' 07.51"W	N: 1046374.64 E: 1068306.76	N: 1046357.86 E: 1068285.87
C13	33.65	300.00	S54° 26' 55.78"W	N: 1046357.86 E: 1068285.87	N: 1046338.31 E: 1068258.50
L9	38.98		S57° 39' 44.04"W	N: 1046338.31 E: 1068258.50	N: 1046317.46 E: 1068225.57
C14	31.15	50.00	S39° 48' 49.89"W	N: 1046317.46 E: 1068225.57	N: 1046293.91 E: 1068205.94
			ALIGNMENT 'C	1	
Number	Length	Radius	Line/Chord Direction	Start	End
L10	18.29		N57° 02' 14.89"E	N: 1046623.01 E: 1067986.86	N: 1046632.96 E: 1068002.21
C15	186.01	120.00	S78° 33' 19.70"E	N: 1046632.96 E: 1068002.21	N: 1046599.64 E: 1068166.81
L11	4.92		S34° 08' 54.30"E	N: 1046599.64 E: 1068166.81	N: 1046595.56 E: 1068169.57
C16	97.12	250.00	S45° 16' 39.52"E	N: 1046595.56 E: 1068169.57	N: 1046527.65 E: 1068238.15
L12	9.82		S56° 24' 24.75"E	N: 1046527.65 E: 1068238.15	N: 1046522.22 E: 1068246.33
C17	228.95	115.00	S0° 37' 39.65"W	N: 1046522.22 E: 1068246.33	N: 1046329.26 E: 1068244.21
			ALIGNMENT 'D	•	
Number	Length	Radius	Line/Chord Direction	Start	End
C18	129.53	100.00	N67° 22' 30.66"W	N: 1046426.27 E: 1068400.55	N: 1046472.69 E: 1068289.17
			ALIGNMENT 'E	·	
Number	Length	Radius	Line/Chord Direction	Start	End
L13	9.96		N76° 35' 50.02"W	N: 1046197.68 E: 1068361.08	N: 1046199.99 E: 1068351.39
C19	108.36	140.00	S81° 13' 45.85"W	N: 1046199.99 E: 1068351.39	N: 1046183.87 E: 1068246.95
L14	26.41		S59° 03' 21.73"W	N: 1046183.87 E: 1068246.95	N: 1046170.30 E: 1068224.30
C20	60.31	300.00	S53° 17' 48.11"W	N: 1046170.30 E: 1068224.30	N: 1046134.31 E: 1068176.03
L15	8.88		S47° 32' 14.50"W	N: 1046134.31 E: 1068176.03	N: 1046128.32 E: 1068169.48
			ALIGNMENT 'F		
Number	Length	Radius	Line/Chord Direction	Start	End
L16	17.99		N44° 30' 55.55"E	N: 1046122.32 E: 1067998.73	N: 1046135.14 E: 1068011.34
C21	67.95	150.54	N34° 14' 19.92"E	N: 1046135.14	N: 1046190.84

N: 1046190.84 N: 1046220.39 E: 1068049.24 E: 1068074.11

N: 1046220.39 N: 1046228.52 E: 1068074.11 E: 1068087.57



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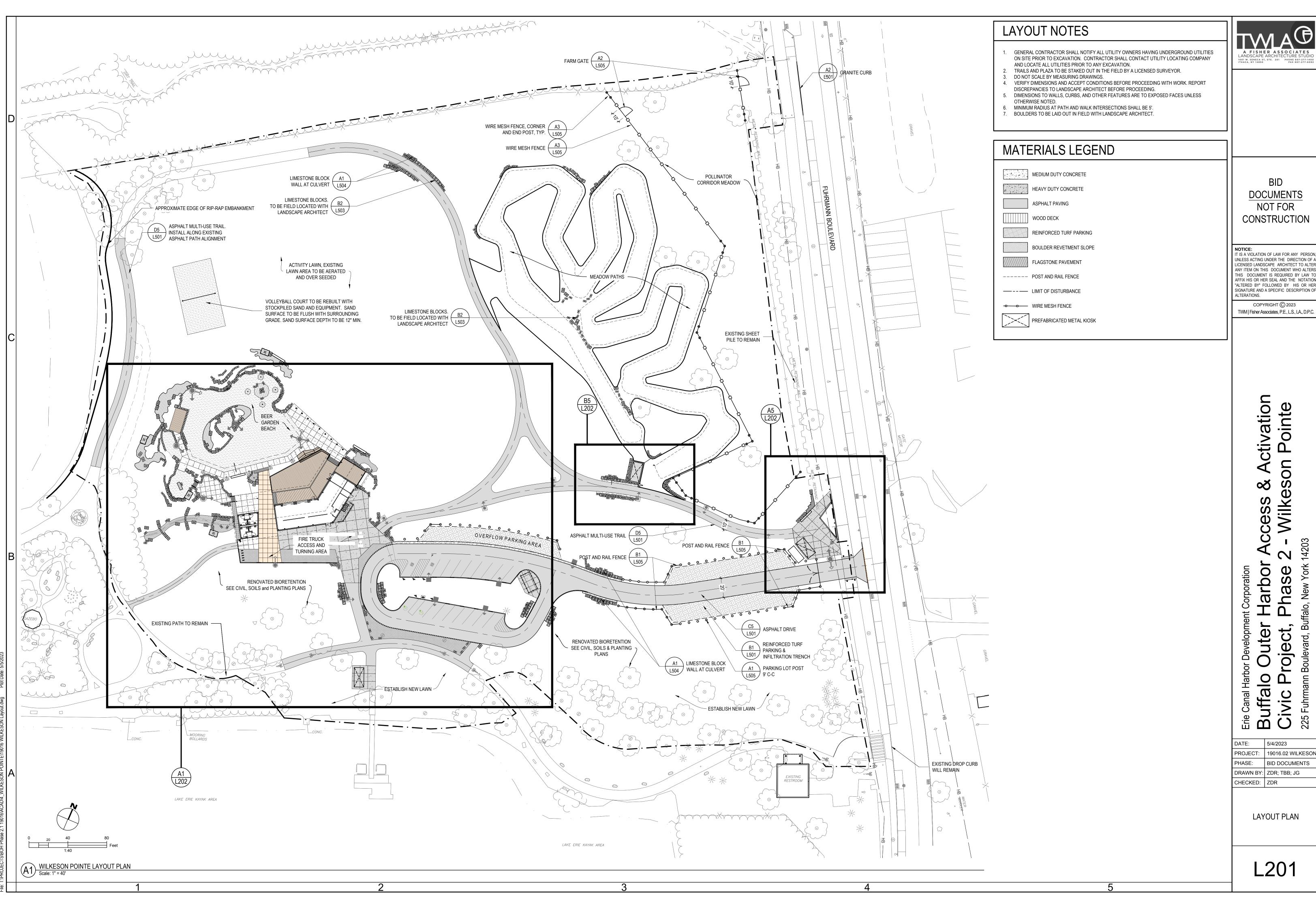
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COORDINATE LAYOUT

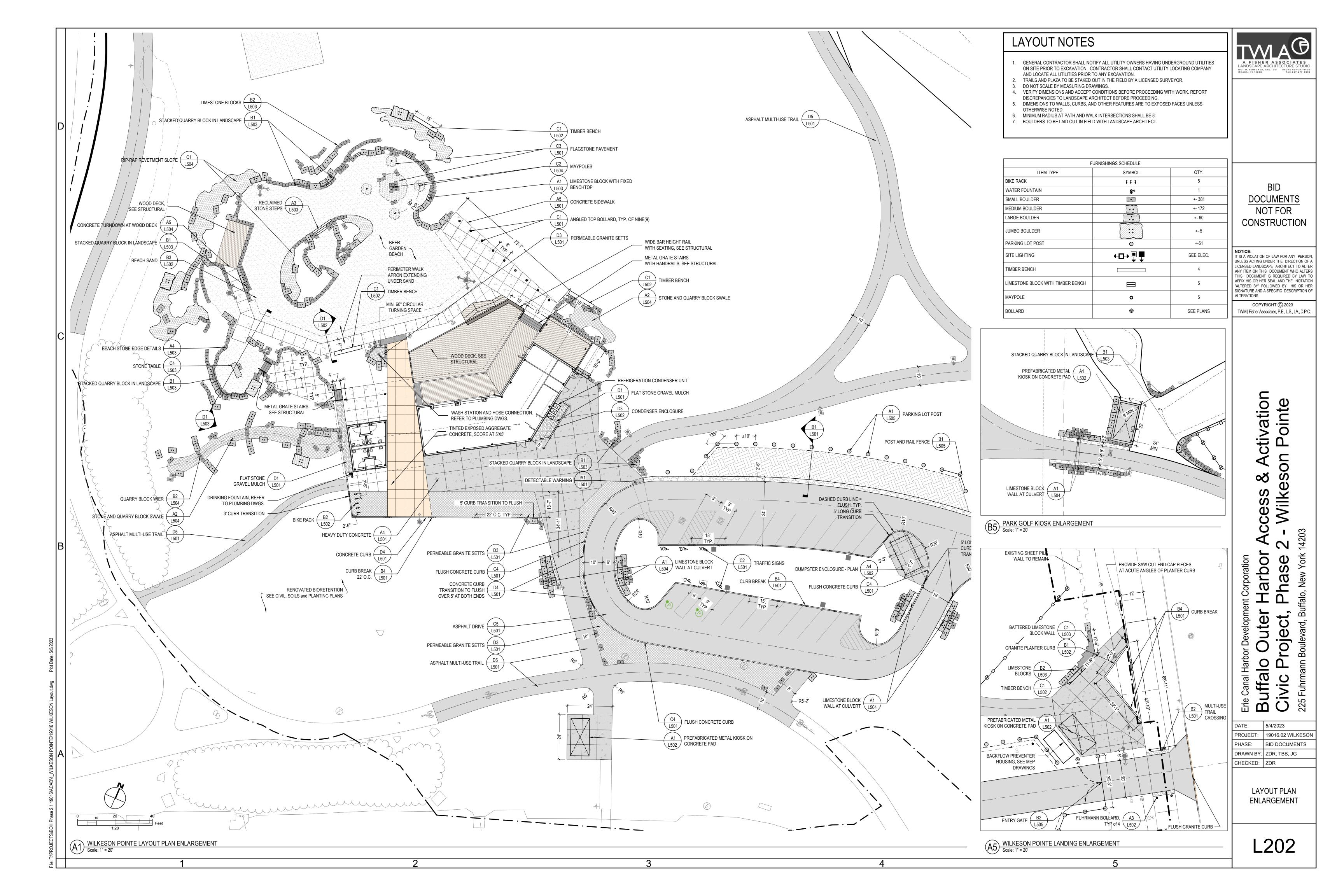


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LAYOUT PLAN





- ALL EXISTING STRUCTURES, UNLESS OTHERWISE NOTED TO REMAIN, FENCING, TREES, ETC., WITHIN CONSTRUCTION AREA SHALL BE REMOVED & DISPOSED OF OFF SITE.
- GENERAL CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES HAVING UNDERGROUND UTILITIES ON SITE OR IN RIGHT-OF-WAY PRIOR TO EXCAVATION. CONTRACTOR SHALL CONTACT UTILITY LOCATING COMPANY AND LOCATE ALL UTILITIES PRIOR TO GRADING START.
- SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN
- MINIMIZE IMPACT TO EXISTING, REMAINING LANDSCAPE WHILE EXCAVATING. GREAT CARE IS TO BE TAKEN TO AVOID DISTURBING ROOTS OF EXISTING TREES. HAND EXCAVATION WILL BE
- 6. ALL EXISTING UTILITY COVERS AND GRATES WITHIN THE AREA OF DISTURBANCE ARE TO BE
- PRIOR TO COMMENCING CONSTRUCTION, VERIFY EXISTING GRADES. NOTIFY LANDSCAPE
- CONTAMINATED SOILS ARE KNOWN TO BE PRESENT AT THE SITE. ALL EXCAVATED MATERIALS SHALL BE MANAGED IN ACCORDANCE WITH THE SPECIFICATION SECTION 01 7149. SEE SPECIFICATION FOR REQUIREMENTS FOR STOCKPILING, TESTING, REUSE, AND DISPOSAL PER
- NO CONTAMINATED RECLAIMED SOILS MAY BE USED WITHIN THE TOP 12" OF FINISH GRADE OF

	EXISTING ELEVATION	TC	TOP OF CURB
RE	RIM ELEVATION	ВС	BOTTOM OF CURB
INV IN	INVERT IN	TS	TOP OF STAIR
INV OUT	INVERT OUT	BS	BOTTOM OF STAIR
TOS	TOP OF STRUCTURE	HP	HIGH POINT
TOD	TOP OF DECK	LP	LOW POINT

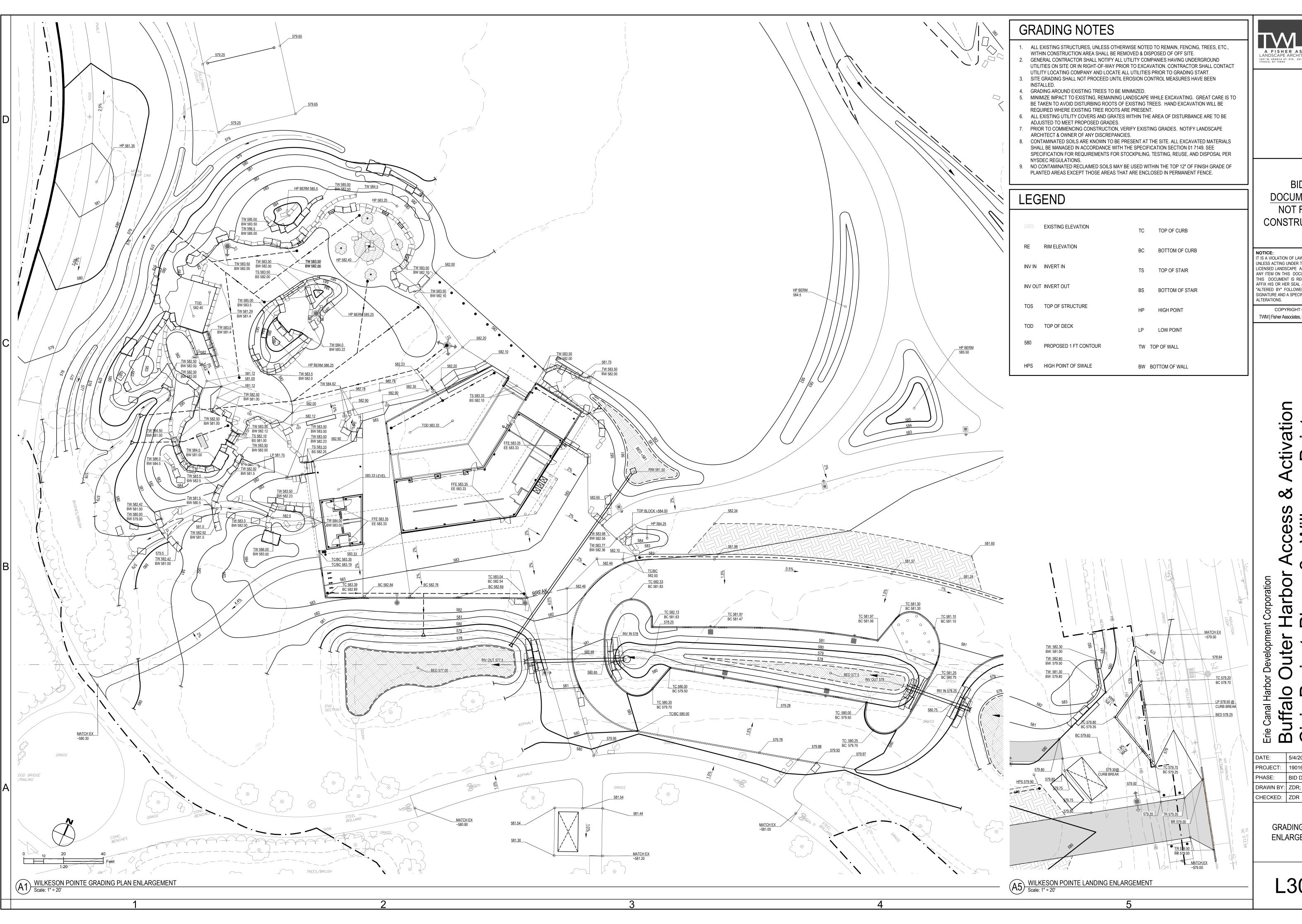
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GRADING PLAN





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GRADING PLAN

ENLARGEMENT



- ALL PLANTED AREAS TO BE EXCAVATED TO MINIMUM DEPTH AS SHOWN ON DETAILS. CONTAMINATED SOILS ARE KNOWN TO BE PRESENT AT THE SITE. ALL EXCAVATED MATERIALS SHALL BE MANAGED IN ACCORDANCE WITH THE SPECIFICATION SECTION 01 7149. SEE SPECIFICATION FOR REQUIREMENTS FOR STOCKPILING, TESTING, REUSE, AND DISPOSAL PER
- THIS PLAN DEPICTS THE SOIL PROFILE FOR THE TOP 12" OF SOIL ONLY, TO DESCRIBE THE COMPOSITION OF THE PLANTING MEDIUM AND REQUIRED ENVIRONMENTAL COVER. BELOW THE 12" LINE, THE QUANTITY OF FILL MATERIAL IS DICTATED BY THE GRADING PLAN AND IS COMPRISED OF SUITABLE FILL.



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SANDPLAIN BERM (EARTHFORMS AND BERMS WITH TREE AND SHRUB PLANTING)

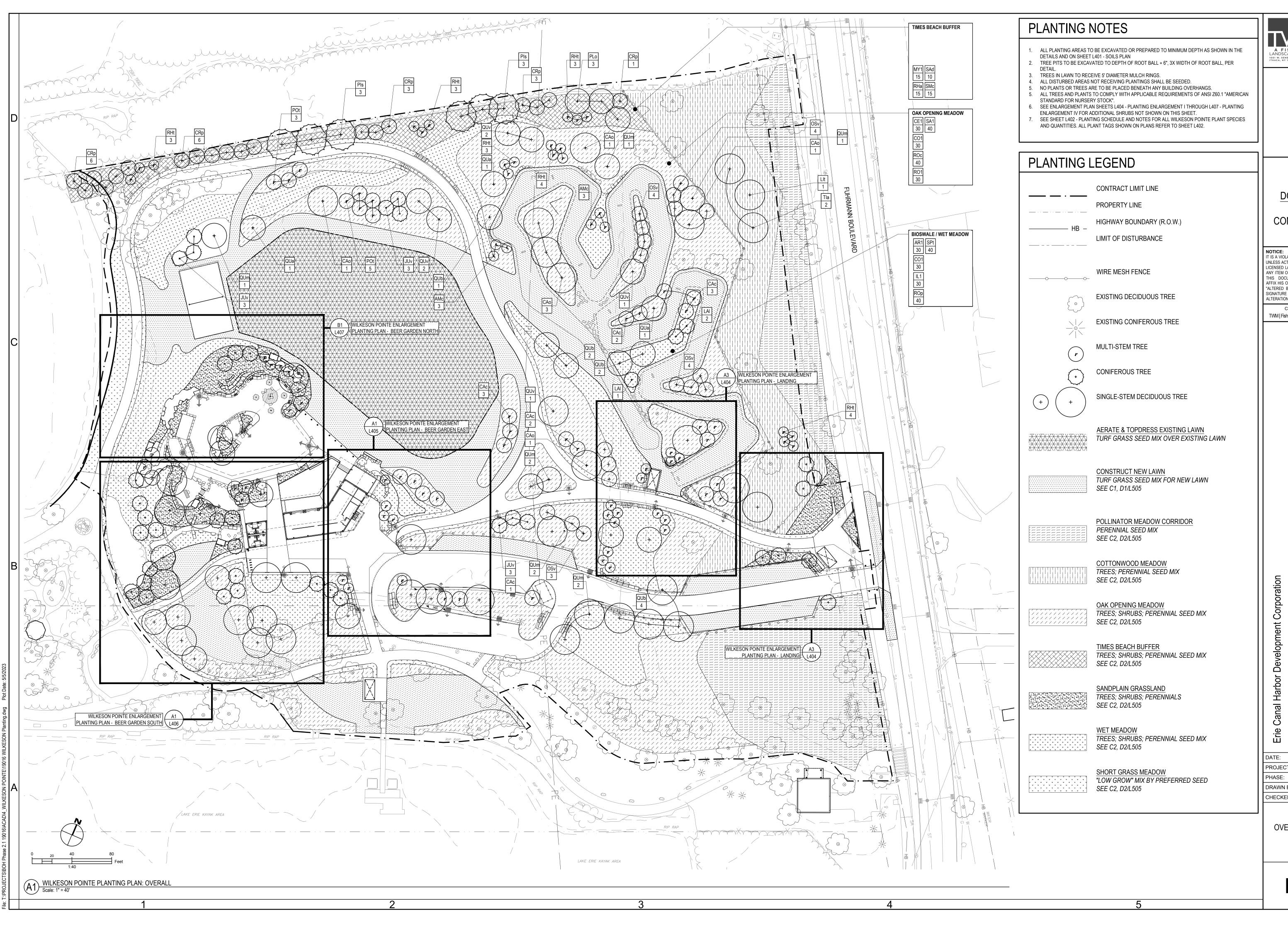
12" SAND PLAIN MIX SOIL

BIORETENTION - SEE CIVIL DRAWINGS

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SOILS PLAN

	SEEDING RATE AREA (SF)	QUANTITY (LBS) COMMON NAME			MIX SEEDING	OMPOSITION SCHEDULE RATE AREA (S	SF) QUANTITY ((LBS) COMMON NAME	% OF SEED MIX	SEEDING RATE	ACREAGE QUANTITY	(LBS) BOTANICAL NAME	COMMON NAME	
TURF LAWN 'SUMMER GREEN	N SUPREME" MIX BY PREFERRED SEED OR	APPROVED FOLIAL		TURF LAW		IIX BY PREFERRED SEED	OR APPROVED F	OUAL	NATIVE SEED POLLINATOR CORRIDO	JB				
20		ESSENTIAL/TRAVERS	SE 2 TALL FESCUE	20		IIX BT FILE ENNED SELL	OKAFTKOVEDE	ESSENTIAL/TRAVERSE 2 TALL FESCUE	1	SEEDS OR APPROVED	EQUAL			A FISHER
20		4TH MILLENNIUM SR REBOUNDER TALL FI		20				4TH MILLENNIUM SRP TALL FESCUE REBOUNDER TALL FESCUE	0.5			BAPTISIA AUSTRALIS	BLUE FALSE INDIGO	LANDSCAPE ARC
20 15		COCHISE IV TALL FE		15				COCHISE IV TALL FESCUE	0.5			MONARDA FISTULOSA SOLIDAGO NEMORALIS	WILD BERGAMOT GRAY GOLDENROD	
0			PE ANNUAL RYEGRASS	3 10				PALMETTO TURF TYPE ANNUAL RYEGRASS	0.3			ASCLEPIAS SYRIACA	COMMON MILKWEED	
<u>0</u>		GREEN SUPREME PE BROOKLAWN KENTU	ERENNIAL RYEGRASS CKY BLUEGRASS	10 5				GREEN SUPREME PERENNIAL RYEGRASS BROOKLAWN KENTUCKY BLUEGRASS	0.3			PENSTEMON DIGITALIS SOLIDAGO RUGOSA	TALL WHITE BEARDTONGUE WRINKLELEAF GOLDENROD	
00	8 LBS/1,000 SQ. FT. 81,900	655 TOTAL SEED	OKT BEGEORGE	100	10 LBS/1,	000 SQ. FT. 39,900	319	TOTAL SEED	0.1			ASTER UMBELLATUS	FLAT TOPPED WHITE ASTER	
<u> IICROCLOVER A</u>		MICROCI OVER			VER ADDITIVE	00 DC TUDE A\A\A\ CEE	<u> </u>	MICROCI OVER	100	20 LBS/AC	0.90	18 TOTAL SEED		
00	2.5 LBS/100 LBS TURF LAWN SEED	16 MICROCLOVER		100	2.5 LBS/1	00 LBS TURF LAWN SEED) 8	MICROCLOVER	COVER CROP	30 LBS/AC	0.90	27 SECALE CEREALE	RYE	
	SITION SCHEDULE					# DLANTS DED	INDIVIDUAL MIN		OAK OPENING MEADO	W		Er GEG/IEE GEIKE/IEE	, KIE	
SPECII QUANT	TITY BOTANICAL NAME	COMMON NAME	UNIT	SIZE	SPACING TYPE	# PLANTS PER CLUSTER	SPACING (FT)	NOTES	ERNMIX-123 BY ERNS	SEEDS OR APPROVED	EQUAL	ANDRODOCON CERADDUANA CADAI	DIC DI LICOTEM INIA CADAL	
ES			45.044.0047			055 81 4110	140		27.0			ANDROPOGON GERARDII 'NIAGARA' PANICUM VIRGATUM 'SHAWNEE'	BIG BLUESTEM 'NIAGARA' SWITCHGRASS 'SHAWNEE'	
	27 AMELANCHIER CANADENSIS 19 CARPINUS CAROLINIANA	SHADBLOW SERVICEBERRY AMERICAN HORNBEAM	15 GAL CONT 15 GAL CONT	5-6 FT 6-7 FT	RANDOM RANDOM	SEE PLANS SEE PLANS	10	MULTI-STEM MULTI-STEM	21.0			ELYMUS VIRGINICUS	VIRGINIA WILD-RYE	
	8 CARYA OVATA	SHAGBARK HICKORY	B&B	2-3" CAL	RANDOM	SEE PLANS	30	WIGETI GTEW	9.0			SORGHASTRUM NUTANS 'SOUTHLOW' MI ECOTYPE RUDBECKIA HIRTA	VIRGINIA WILD-RYE 'SOUTHLOW' MI ECOTYI BLACKEYED SUSAN	<u> </u>
	19 CRATAEGUS PHAENOPYRUM	WASHINGTON HAWTHORN KENTUCKY COFFEE TREE	15 GAL CONT	6-7 FT 2-3" CAL	RANDOM RANDOM	SEE PLANS SEE PLANS	15	MULTI-STEM	2.0			CHAMAECRISTA FASCICULATA	PARTRIDGE PEA	
	3 GYMNOCLADUS DIOICUS 23 JUNIPERUS VIRGINIANA	EASTERN REDCEDAR	15 GAL CONT	7-8 FT	RANDOM	SEE PLANS	15		1.5			HELIOPSIS HELIANTHOIDES	OXEYE SUNFLOWER	
	19 LARIX LARICINA	TAMARACK	15 GAL CONT	7-8 FT	RANDOM	SEE PLANS	15		1.0			COREOPSIS TINCTORIA DESMODIUM CANADENSE, PA ECOTYPE	PLAINS COREOPSIS SHOWY TICKTREFOIL, PA ECOTYPE	
	3 LIRIODENDRON TULIPIFERA 18 OSTRYA VIRGINIANA	TULIP POPLAR HOPHORNBEAM	B&B 15 GAL CONT	2-3" CAL 1-2" CAL	RANDOM RANDOM	SEE PLANS SEE PLANS	30		0.1			ASCLEPIAS SYRIACA	COMMON MILKWEED	CONST
	6 PINUS STROBUS	WHITE PINE	B&B	2-3" CAL	RANDOM	SEE PLANS	15		0.1	20 DC/AC	0.40	MONARDA FISTULOSA, FORT INDIANTOWN GAP, PA ECOTYPE	WILD BERGAMOT	_
	3 PLATANUS OCCIDENTALIS	SYCAMORE	B&B	2-3" CAL	RANDOM	SEE PLANS	30		COVER CROP	20 LBS/AC	2.10	42 TOTAL SEED		
	21 POPULUS TREMULOIDES 5 QUERCUS ALBA	QUAKING ASPEN WHITE OAK	15 GAL CONT	6-7 FT 2-3" CAL	RANDOM RANDOM	SEE PLANS SEE PLANS	15	MULTI-STEM	100		2.10	63 SECALE CEREALE	RYE	NOTICE: IT IS A VIOLATION OF
	17 QUERCUS BICOLOR	SWAMP WHITE OAK	B&B	2-3" CAL	RANDOM	SEE PLANS	30		COTTONWOOD MEAD	JVV				UNLESS ACTING UNDE LICENSED LANDSCAPE
1	21 QUERCUS MUEHLENBERGII	CHINQUAPIN OAK	B&B	2-3" CAL	RANDOM	SEE PLANS	30		0.0			CAREX VULPINOIDEA	FOX SEDGE	ANY ITEM ON THIS DITHIS DOCUMENT IS
	8 QUERCUS VELUTINA 25 RHUS TYPHINA	BLACK OAK STAGHORN SUMAC	B&B 15 GAL CONT	2-3" CAL 5-6 FT	RANDOM RANDOM	SEE PLANS SEE PLANS	15	MULTI-STEM	0.0			CHASMANTHIUM LATIFOLIUM	NORTHERN SEA OATS	AFFIX HIS OR HER SE. "ALTERED BY" FOLLO"
	2 TILIA AMERICANA	BASSWOOD	B&B	2-3" CAL	SEE PLANS	SEE PLANS	30		0.0			DESCHAMPSIA CESPITOSA ELYMUS VIRGINICUS	TUFTED HAIR GRASS VIRGINIA WILD-RYE	SIGNATURE AND A SPE ALTERATIONS.
NIDO -	TOTAL TREES								0.0			PANICUM CLANDESTINUM	DEERTONGUE	COPYRIGH
UBS	37 ARONIA MELANOCARPA	CHOKEBERRY	1 GAL CONT	18-24"	CLUSTER	5 TO 7	3		0.0	00150/10	0.70	SPOROBOLUS HETEROLEPUS	PRIARIE DROPSEED	TWM Fisher Associat
	17 ARONIA MELANOCARPA	CHOKEBERRY	3 GAL CONT	24-30"	CLUSTER	SEE PLANS	3		- 0 COVER CROP	20 LBS/AC	0.70	14 TOTAL SEED		\dashv
	30 CEANOTHUS AMERICANUS 34 CEANOTHUS AMERICANUS	NEW JERSEY TEA NEW JERSEY TEA	1 GAL CONT 3 GAL CONT	18-24" 24-30"	CLUSTER CLUSTER	5 TO 7 SEE PLANS	3		- 100		0.70	21 SECALE CEREALE	RYE	
	60 CORNUS SERICEA	RED OSIER DOGWOOD	1 GAL CONT	18-24"	CLUSTER	5 TO 7	3		TIMES BEACH BUFFER CUSTOM SEED MIX					
	140 CORNUS SERICEA	RED OSIER DOGWOOD	3 GAL CONT	24-30"	CLUSTER	SEE PLANS	3		0.0			DESCHAMPSIA CESPITOSA	TUFTED HAIR GRASS	
	41 COMPTONIA PEREGRINA 21 CORNUS RACEMOSA	SWEET FERN GRAY TWIG DOGWOOD	3 GAL CONT 1 GAL CONT	18-24" 18-24"	CLUSTER CLUSTER	SEE PLANS 5 TO 7	3		0	20 LBS/AC	0.30	6 TOTAL SEED		
	30 ILEX VERTICILLATA	WINTERBERRY	3 GAL CONT	24-30"	CLUSTER	3 TO 5	5		COVER CROP	30 LBS/AC	0.30	9 SECALE CEREALE	RYE	
	9 ILEX VERTICILLATA	WINTERBERRY	1 GAL CONT	18-24"	CLUSTER	SEE PLANS	5		SANDPLAIN GRASSLA		0.30	9 SECALE GENEALE	NIE	
	103 JUNIPERUS COMMUNIS VAR. DEPRI 15 LINDERA BENZOIN	ESSA COMMON JUNIPER SPICEBUSH	3 GAL CONT 1 GAL CONT	24-30" 18-24"	CLUSTER CLUSTER	SEE PLANS 3 TO 5	5		CUSTOM SEED MIX	T		OLIA OMANITURIMI ATIFOLIRIM	NORTHERN OF A CATO	
	15 MYRICA PENSYLVANICA	NORTHERN BAYBERRY	1 GAL CONT	18-24"	CLUSTER	3 TO 5	5		0.0			CHASMANTHIUM LATIFOLIUM DESCHAMPSIA CESPITOSA	NORTHERN SEA OATS TUFTED HAIR GRASS	- O
	68 MYRICA PENSYLVANICA 107 PAXISTIMA CANBYI	NORTHERN BAYBERRY CLIFF GREEN	3 GAL CONT 3 GAL CONT	24-30" 24-30"	CLUSTER CLUSTER	SEE PLANS SEE PLANS	5		0.0			SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	
	107 PRUNUS PUMILLA	BEACH PLUM	1 GAL CONT	18-24"	CLUSTER	SEE PLANS	3		0	20 LBS/AC	0.40	8 TOTAL SEED		\neg
1	15 RHUS AROMATICA	FRAGRANT SUMAC	1 GAL CONT	18-24"	CLUSTER	5 TO 7	3		COVER CROP	30 LBS/AC	0.40	12 SECALE CEREALE	RYE	⊣ .≥.
	10 RHUS GLABRA 51 ROSA VIRGINIANA	SMOOTH SUMAC VIRGINIA ROSE	1 GAL CONT 1 GAL CONT	18-24" 18-24"	CLUSTER CLUSTER	3 TO 5 5 TO 7	5		WET MEADOW		_	, ===================================	, =	<u> </u>
;	89 ROSA VIRGINIANA	VIRGINIA ROSE VIRGINIA ROSE	3 GAL CONT	24-30"	CLUSTER	SEE PLANS	3		SIDE SLOPES / ERNMI	K-105 BY ERNST SEEDS (OR APPROVED EQUAL	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	\dashv
,	40 ROSA CAROLINA	CAROLINA ROSE	1 GAL CONT	18-24"	CLUSTER	5 TO 7	3		20.0			SORGHASTRUM NUTANS	INDIANGRASS	\dashv
)	40 ROSA PALUSTRIS 40 SALIX HUMILIS	SWAMP ROSE PRAIRIE WILLOW	1 GAL CONT 1 GAL CONT	18-24" 18-24"	CLUSTER CLUSTER	5 TO 7 3 TO 5	5		15.0			ELYMUS VIRGINICUS	VIRGINIA WILD-RYE	_ •ජ
	33 SALIX HUMILIS	PRAIRIE WILLOW	3 GAL CONT	24-30"	CLUSTER	SEE PLANS	5		- 8.0 5.0			ECHNIACEA PURPUREA PANICUM CLANDESTINUM	PURPLE CONEFLOWER DEERTONGUE	\dashv
	60 SALIX CANDIDA 27 SALIX DISCOLOR	SAGELEAF WILLOW PUSSY WILLOW	3 GAL CONT 3 GAL CONT	24-30" 24-30"	CLUSTER CLUSTER	5 TO 7 3 TO 5	3		3.0			CHAMAECRISTA FASCICULATA	PARTRIDGE PEA	
	45 SALIX CORDATA	SAND WILLOW	3 GAL CONT	24-30"	CLUSTER	SEE PLANS	3		3.0			COREOPSIS LANCEOLATA	LANCELEAF COREOPSIS	-1
ı	30 SHEPHERDIA ARGENTEA	SILVER BUFFALOBERRY	1 GAL CONT	18-24"	CLUSTER	5 TO 7	3		3.0			RUDBECKIA HIRTA VERBENA HASTATA	BLACKEYED SUSAN BLUE VERVAIN	\exists
;	15 SAMBUCUS CANADENSIS 40 SPIRAEA TOMENTOSA	ELDERBERRY STEEPLEBUSH	1 GAL CONT 1 GAL CONT	18-24" 18-24"	CLUSTER CLUSTER	5 TO 7 5 TO 7	3		2.0			HELIOPSIS HELIANTHOIDES	OXEYE SUNFLOWER	
<u> </u>	1369 TOTAL SHRUBS	OTELL LEBOOT	T OAL GOINT	10-2-4	OLOGILIN	0101] 3		1.5			ASCLEPIAS INCARNATA ASTER NOVAE-ANGLIAE	SWAMP MILKWEED NEW ENGLAND ASTER	$-\parallel$
NTAINERIZED PE		AMEDICAN PEACHODACC	DADE BOOT		OLUOTED	40.70.45	4011 0 0	A DI ANTO DED LIOLE	1.0			PYCNANTHEMUM TENUIFOLIUM	NARROWLEAF MOUNTAINMINT	
)	414 AMMOPHILA BREVILIGULATA 64 ECHINACEA PURPUREA	AMERICAN BEACHGRASS PURPLE CONEFLOWER	BARE ROOT SP4		CLUSTER CLUSTER	12 TO 15 5 TO 7	18" O.C. 12" O.C.	2 PLANTS PER HOLE	1.0			SENNA HEBECARPA	WILD SENNA	
	200 ELYMUS CANADENSIS	CANADA WILD RYE	SP4		CLUSTER	5 TO 7	18" O.C.		0.8			TRADESCANTIA OHIENSIS EUPATORIUM PERFOLLATUM	OHIO SPIDERWORT BONESET	
	142 LIATRIS SPICATA	BLAZING STAR ORANGE CONEFLOWER	SP4 SP4		CLUSTER	5 TO 7 5 TO 7	12" O.C. 18" O.C.		0.6			ZIZIA AUREA	GOLDEN ALEXANDERS	
<u> </u>	94 RUDBECKIA FULGIDA 174 SOLIDAGO NEMORALIS	GRAY GOLDENROD	SP4		CLUSTER CLUSTER	5 TO 7	18" O.C. 18" O.C.		0.5			BAPTISIA AUSTRALIS	BLUE FALSE INDIGO	≱ '@
	178 SOLIDAGO RUGOSA	WRINKLELEAF GOLDENROD	SP4		CLUSTER	5 TO 7	18" O.C.		0.5			MONARDA FISTULOSA SOLIDAGO NEMORALIS	WILD BERGAMOT GRAY GOLDENROD	\dashv $\stackrel{L}{arphi}$ \mathbf{L}
<u> </u>	120 SYMPHYOTRICHUM NOVAE-BELGII		SP4		CLUSTER	5 TO 7	12" O.C.		0.3			ASCLEPIAS SYRIACA	COMMON MILKWEED	
•	TOTAL CONTAINERIZED PERENNIAL								0.3			PENSTEMON DIGITALIS	TALL WHITE BEARDTONGUE	<u> </u>
		SEED PLANTING COMPOSITION SCHEDULE	ACREAGE (OLIANTITY (I BC)	DOTANIOAL NAME	E		COMMONIANAE	0.1			SOLIDAGO RUGOSA ASTER UMBELLATUS	WRINKLELEAF GOLDENROD FLAT TOPPED WHITE ASTER	
		% OF SEED MIX SEEDING RATE NATIVE SEED	AUREAGE '	~~, " TITT (LDO)	DOTANICAL NAM	L		COMMON NAME	100		0.50	10 TOTAL SEED		
		POLLINATOR CORRIDOR	(ED EQUIT						BOTTOM / ERNMIX-127	BY ERNST SEEDS OR A	YKUVED EQUAL	PANICUM CLANDESTINUM	DEERTONGUE	
		ERNMIX-105 BY ERNST SEEDS OR APPROV	'ED EQUAL		SCHIZACHYRIUN			LITTLE BLUESTEM	29.5			CAREX VULPINOIDEA	FOX SEDGE	
		20.0			SORGHASTRUM			INDIANGRASS	20.0			ELYMUS VIRGINICUS	VIRGINIA WILD-RYE	
		15.0		<u></u>	ELYMUS VIRGINI	CUS		VIRGINIA WILD-RYE	-		+	CAREX LURIDA CAREX SCOPARIA	LURID SEDGE BLUNT BROOM SEDGE	<u>_</u> <u> </u>
		5.0			PANICUM CLAND			PURPLE CONEFLOWER DEERTONGUE	3.0			VERBENA HASTATA	BLUE VERVAIN	
		3.0			CHAMAECRISTA			PARTRIDGE PEA	1.5			JUNCUS EFFUSUS	SOFT RUSH	
		3.0			COREOPSIS LAN			LANCELEAF COREOPSIS	0.5			AGROSTIS PERENNANS ASCLEPIAS INCARNATA	AUTUMN BENTGRASS SWAMP MILKWEED	
		3.0			RUDBECKIA HIR			BLACKEYED SUSAN BLUE VERVAIN	0.3			SCIRPUS CYPERINUS	WOOLGRASS	
		2.0			HELIOPSIS HELIA	ANTHOIDES		OXEYE SUNFLOWER	0.2			HELENIUM AUTUMNALE	COMMON SNEEZEWEED	DATE: 5/4
		1.5			ASCLEPIAS INCA			SWAMP MILKWEED	0.1			ASTER NOVAE-ANGLIAE ASTER PUNICEUS	NEW ENGLAND ASTER PURPLESTEM ASTER	PROJECT: 190 PHASE: BIE
		1.0			ASTER NOVAE-A PYCNANTHEMUN			NEW ENGLAND ASTER NARROWLEAF MOUNTAINMINT	0.1			ASTER UMBELLATUS	FLAT TOPPED WHITE ASTER	DRAWN BY: ZD
		1.0			SENNA HEBECA	RPA		WILD SENNA	0.1			EUPATORIUM PERFOLLATUM	BONESET	CHECKED: ZD
		0.8			TRADESCANTIA	OHIENSIS		OHIO SPIDERWORT	0.1	20 LBS/AC	0.50	LOBELIA SIPHILITICA 10 TOTAL SEED	GREAT BLUE LOBELIA	- OHEGRED. ZL
		0.6			EUPATORIUM PE ZIZIA AUREA	:RFOLLATUM		BONESET GOLDEN ALEXANDERS	COVER CROP					
		U.U			LILIA AUNEA				100	30 LBS/AC	1.00	30 SECALE CEREALE	RYE	□
										W PLANTING COMPOSIT				AND
									% OF SEED MIX	SEEDING RATE		QUANTITY (LBS) COMMON NAME		
									"LOW GRO" MIX BY PR	EFERRED SEED OR APP	KUVED EQUAL	NANOOK HARD FESCUE		
									25			MARCO POLO SHEEP FESCUE		
									25			QUATRO SHEEP FESCUE		1 1 4
									100	 6 LBS/1,000 SQ. I	T. 13,100	INTRIGUE CHEWINGS FESCUE 79 TOTAL SEED		L4
												, , , , , , , , , , , , , , , , , , ,		, — ,



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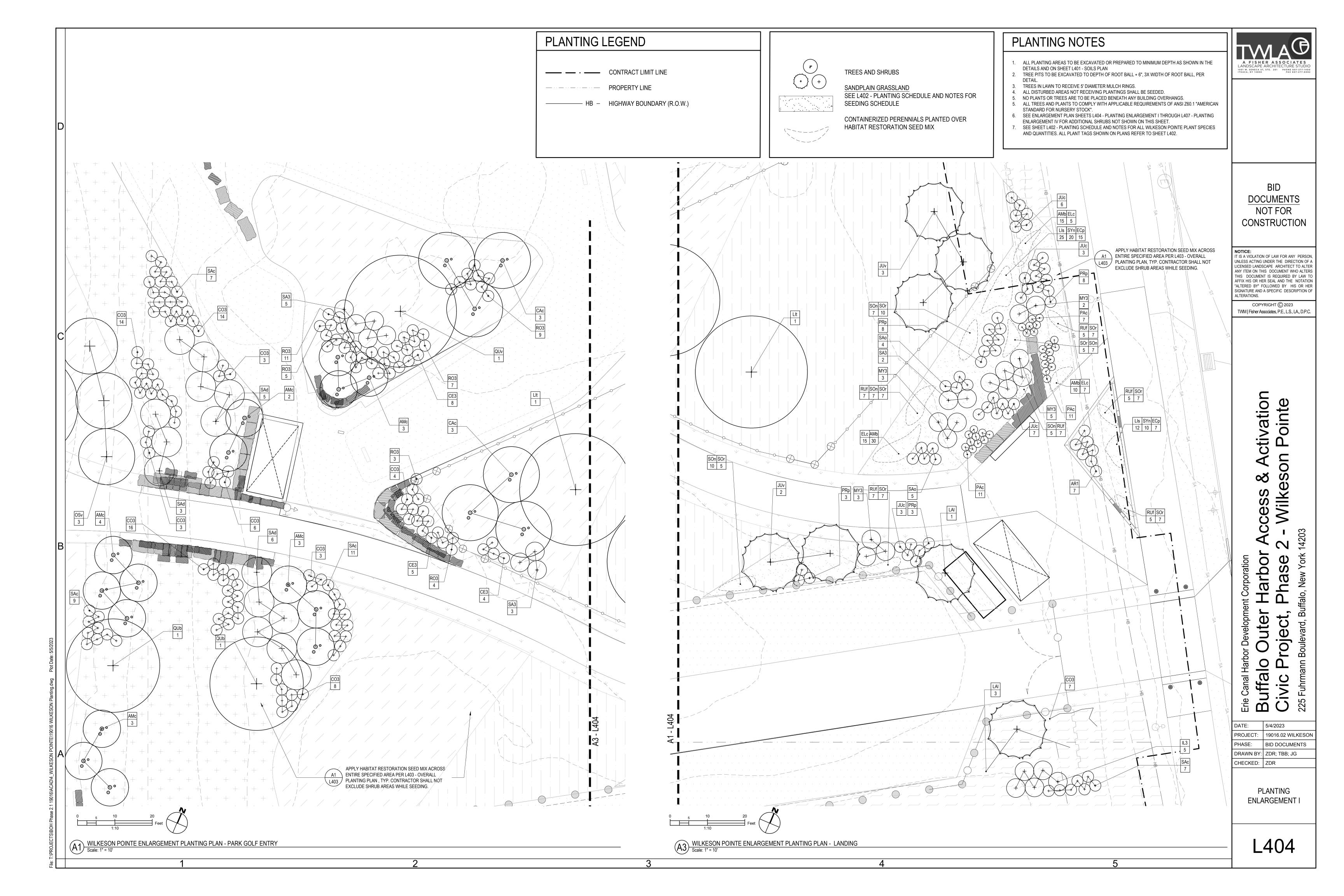
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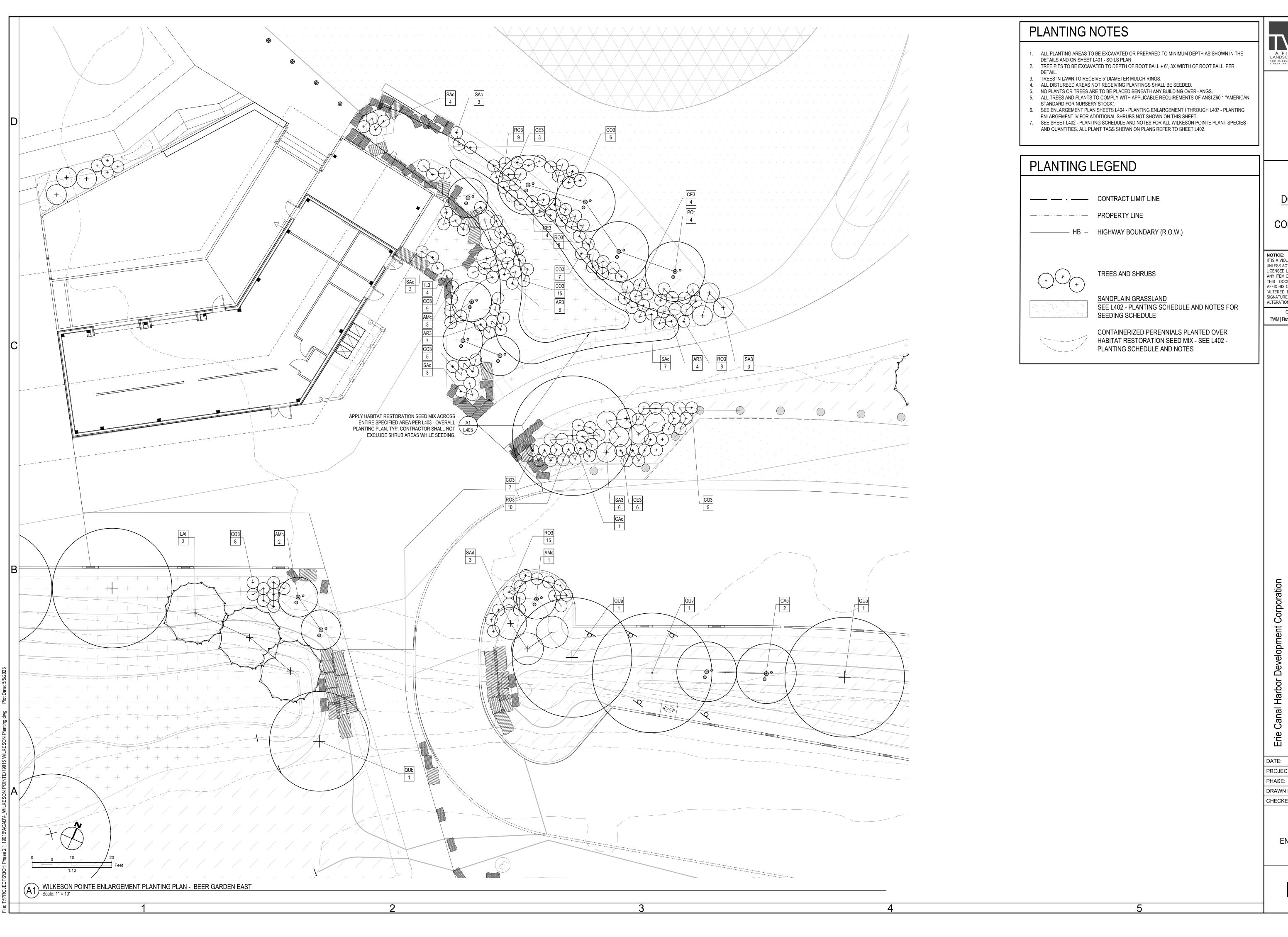
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OVERALL PLANTING PLAN



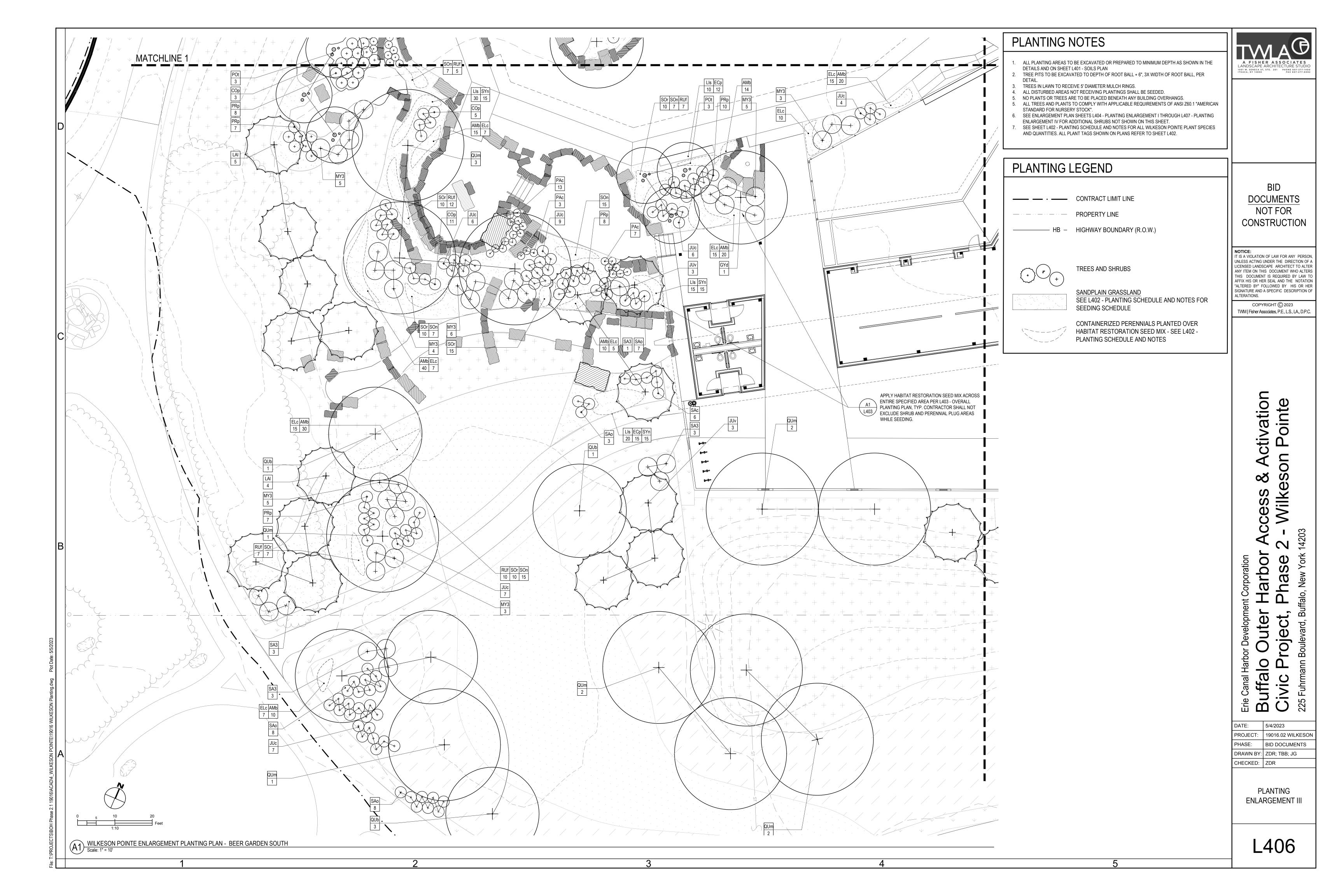


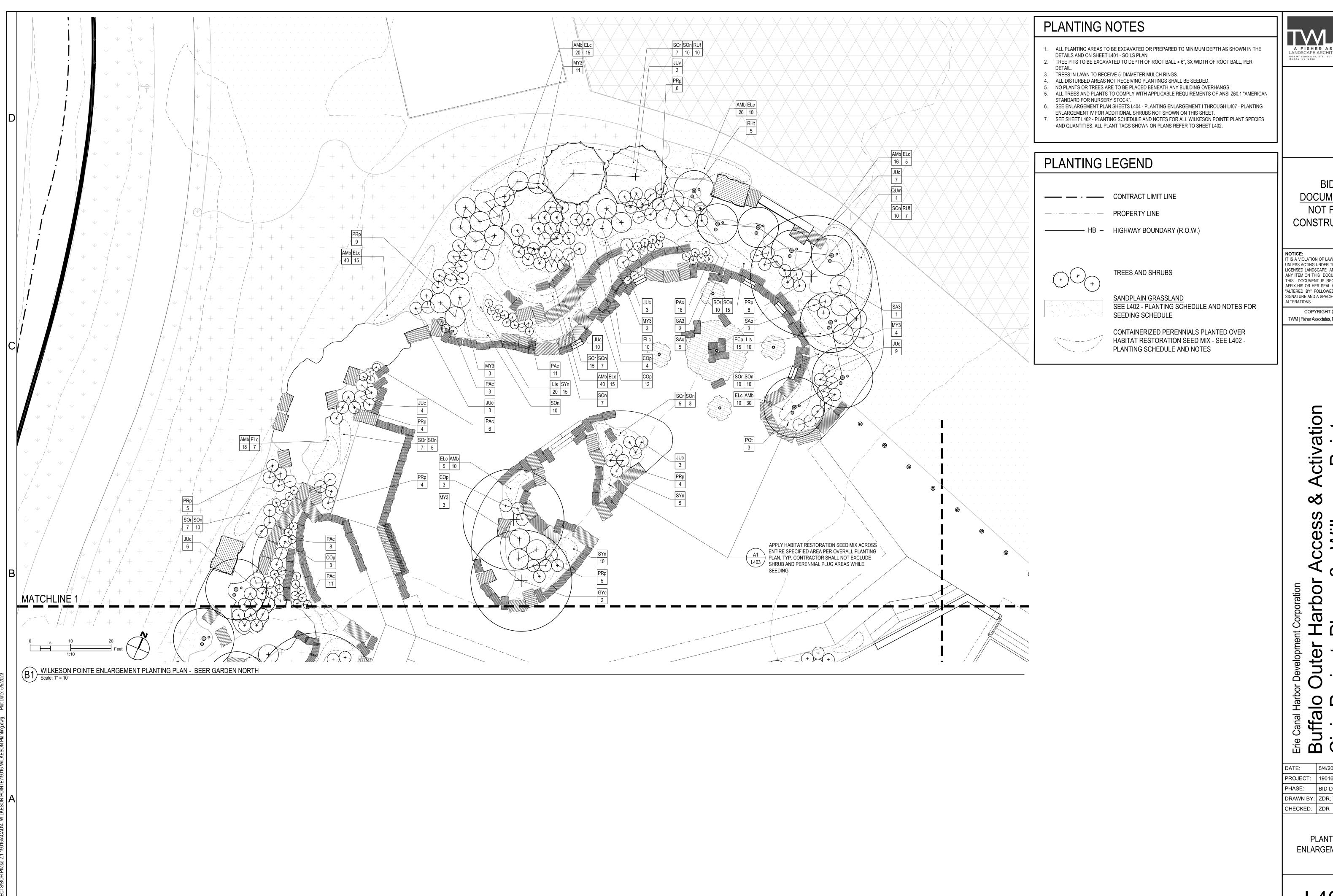
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> PLANTING **ENLARGEMENT II**







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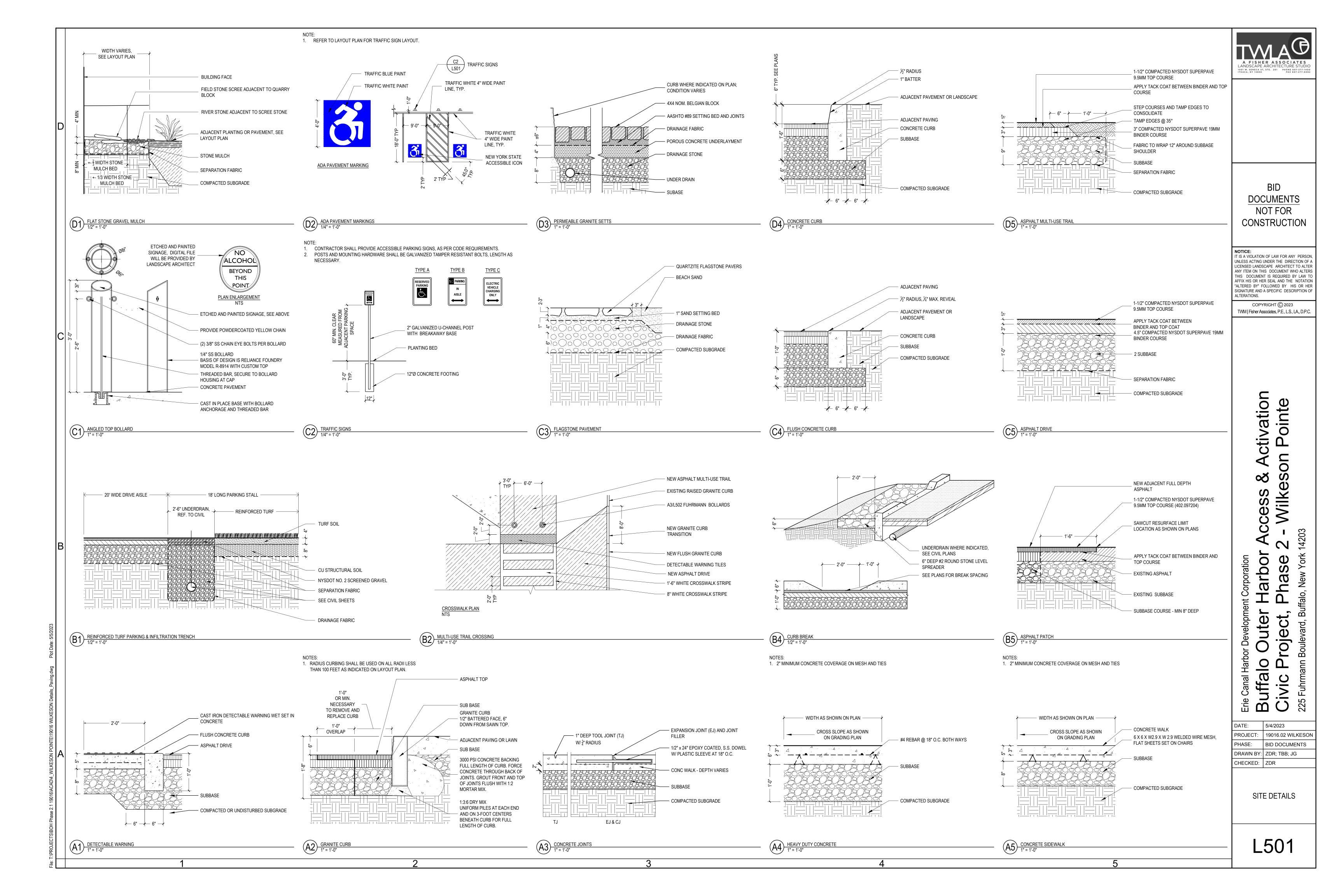
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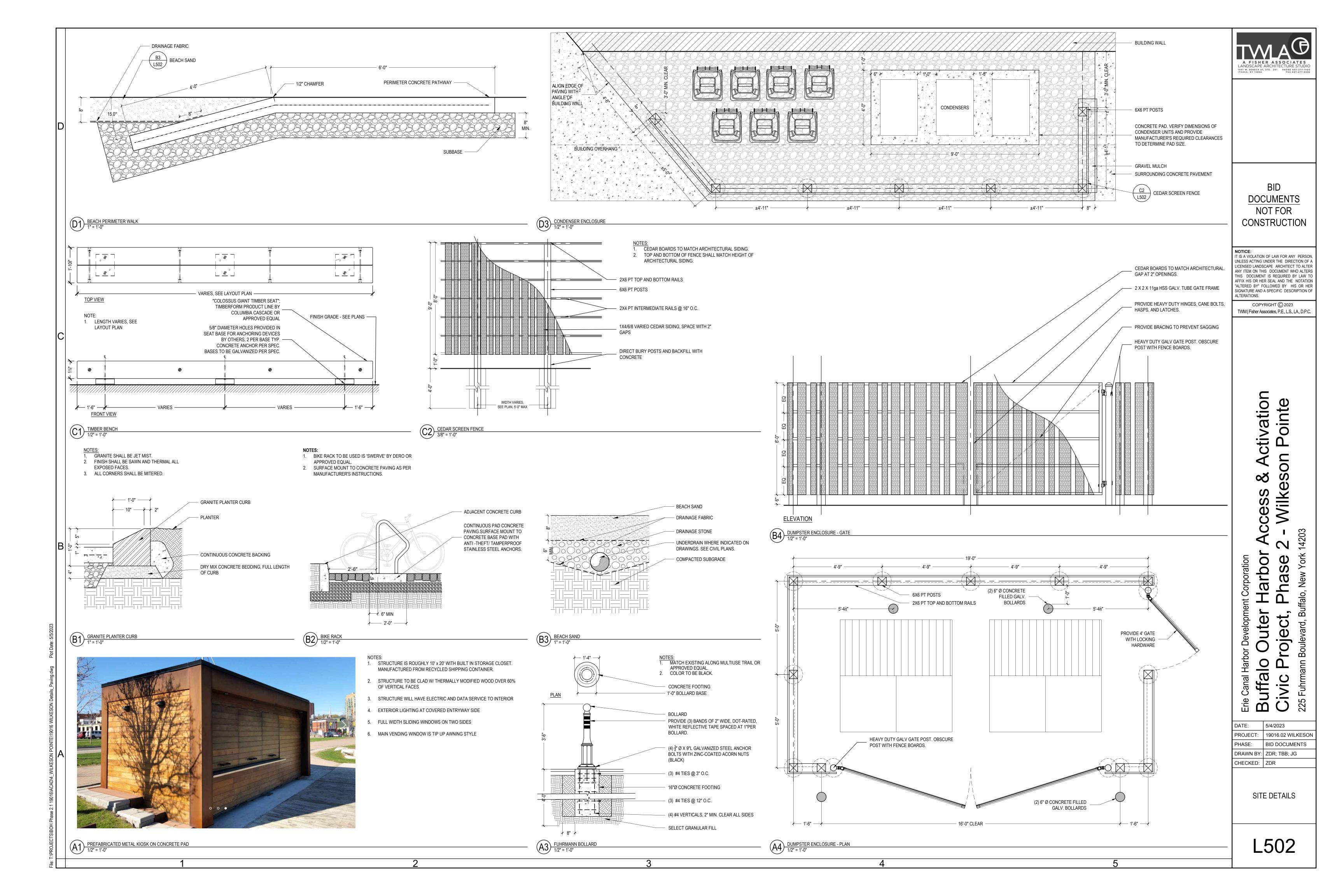
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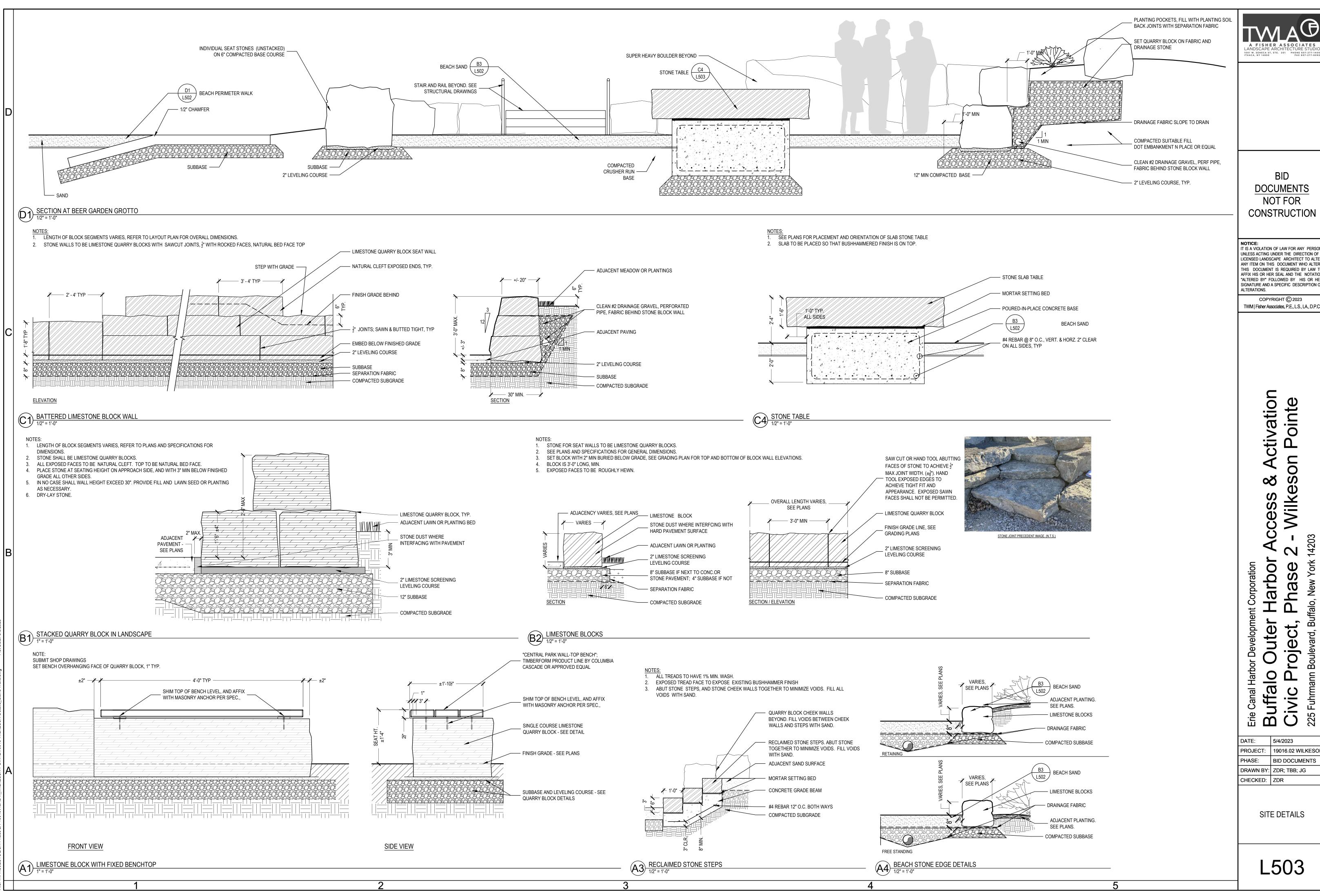
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> PLANTING **ENLARGEMENT IV**







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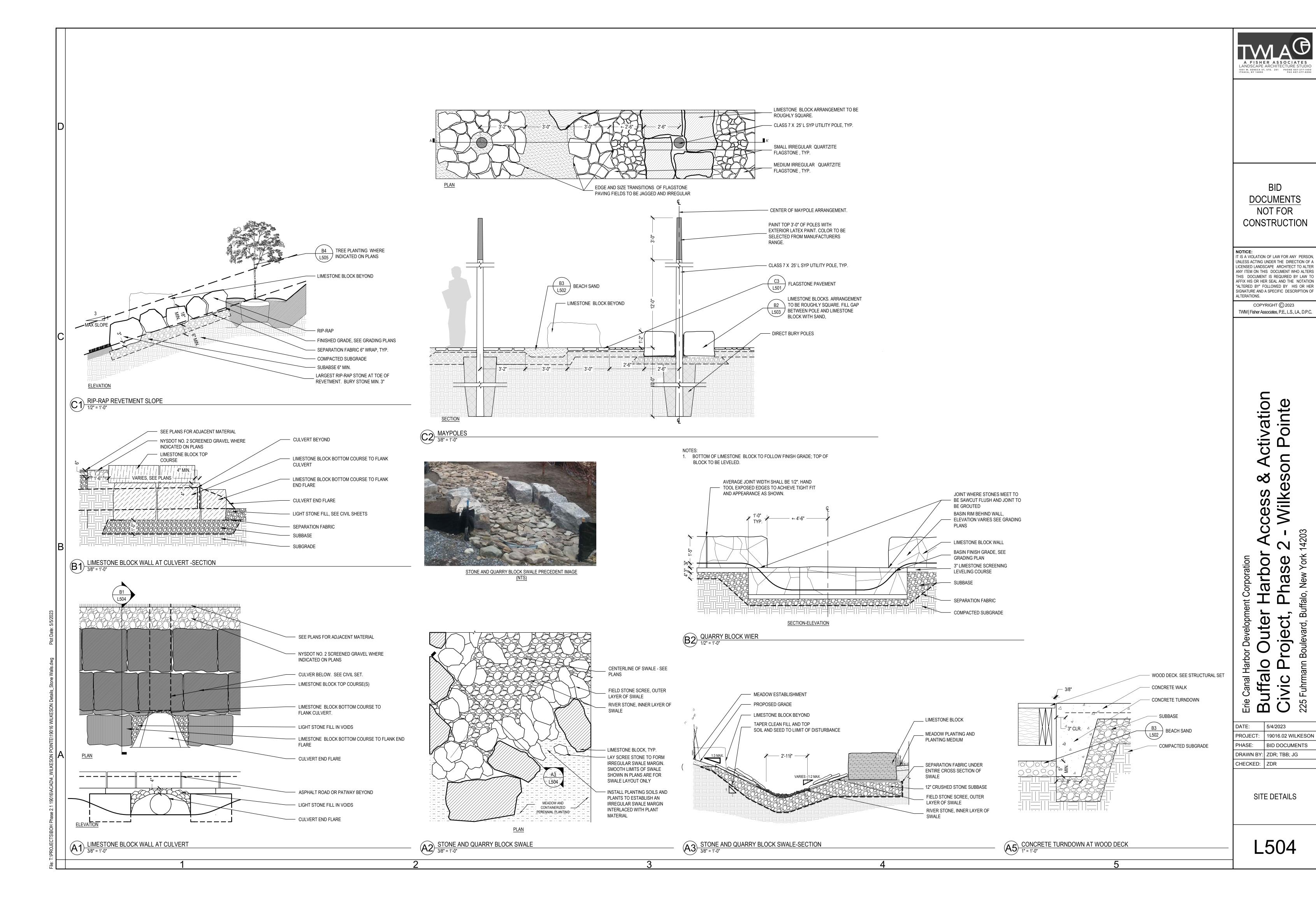
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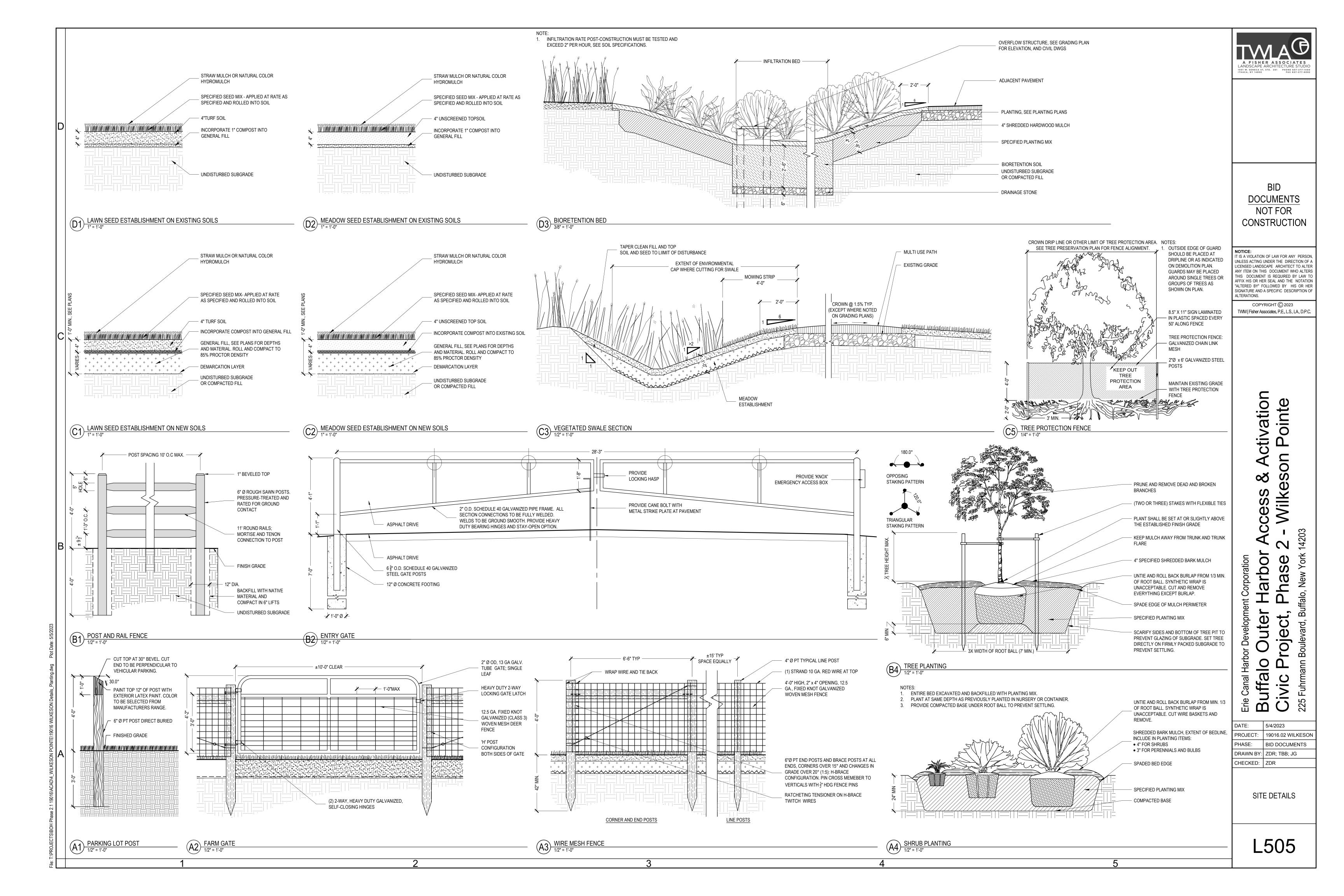
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GENERAL NOTES:

- THE STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE
 STANDARDS NOTED ON THE STRUCTURAL LOADING TABLE THIS
 SHEET
- THE CONTRACTOR SHALL ENSURE THAT THEIR WORK IS COMPLETED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES, USING THE MOST STRINGENT.
- REPRODUCTION OF ANY PORTION OF THE STRUCTURAL DRAWINGS IS A VIOLATION OF COPYRIGHT LAWS. ALL PLANS, NOTES, DETAILS, AND SECTIONS MUST BE REDRAWN AND COORDINATED WITH THE REMAINING CONTRACT DRAWINGS. REPRODUCED CONTRACT DOCUMENTS THAT ARE SUBMITTED WILL BE RETURNED WITHOUT REVIEW.
- THE CONTRACTOR SHALL VERIFY ALL INFORMATION SHOWN ON THE PLANS PRIOR TO INITIATING CONSTRUCTION, AND SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THOSE SHOWN ON THE PLANS FOR POSSIBLE MODIFICATION OF THE DESIGN AND/OR DETAILS.
- 5. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS NOT SHOWN AND FOR EXACT LOCATIONS & DIMENSIONS OF ALL ARCHITECTURAL DETAILS. THE CONTRACTOR SHALL COMPARE THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO COMPLETION OF THE SHOP DRAWINGS.
- 6. ANY DEVIATION FROM, ADDITION TO, SUBSTITUTION FOR, OR MODIFICATIONS TO THE STRUCTURE SHOWN ON THESE DRAWINGS SHALL BE SUBMITTED IN WRITING TO THE ENGINEER FOR REVIEW. SHOP DRAWINGS THAT ARE SUBMITTED FOR REVIEW MUST CLEARLY NOTE ANY SPECIFIC CHANGES ARE BEING SUGGESTED.
- THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE WORKERS AND OTHER PERSONS DURING CONSTRUCTION.
- 8. THE STRUCTURAL DRAWINGS ARE NOT TO BE SCALED FOR DETERMINATION OF QUANTITIES, LENGTHS OR FIT OF MATERIALS.
- THE CONTRACTOR SHALL BE SOLELY AND EXCLUSIVELY RESPONSIBLE FOR THE ADEQUACY OF ALL SHORING AND BRACING. THE CONTRACTOR SHALL PROVIDE SEALED PLANS FOR TEMPORARY ERECTION SHORING AND BRACING OF ALL STRUCTURAL WORK AS REQUIRED FOR THE STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY INFORM THE ENGINEER OF ANY CONDITION WHICH, IN HIS OPINION, MIGHT ENDANGER THE STABILITY OF THE STRUCTURE OR CAUSE DISTRESS IN THE STRUCTURE.
- 10. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO INITIATING FABRICATION.
- LOADS THAT HAVE BEEN USED IN THE STRUCTURAL DESIGN ARE SHOWN ON THE ATTACHED TABLE. OTHER DEAD LOADS HAVE BEEN CALCULATED TO INCLUDE THE ACTUAL WEIGHT OF ALL WORK SHOWN ON THE STRUCTURAL DRAWINGS. NO EQUIPMENT SHALL BE PLACED ON OR HUNG FROM THE STRUCTURE WITHOUT WRITTEN APPROVAL OF THE ENGINEER. ROOF MOUNTED UNITS SHALL BE PLACED ONLY AT DESIGNATED AREAS AS SHOWN ON THE ROOF FRAMING PLAN. IN THE EVENT THAT LOCATIONS ARE NOT SPECIFIED OR OTHER LOCATIONS ARE DESIRED, THE OWNER AND CONTRACTOR MUST OBTAIN WRITTEN APPROVAL FROM THE ENGINEER PRIOR TO LOCATING OR RELOCATING THESE UNITS.
- 12. COMPLETE SHOP DRAWINGS FOR THE STRUCTURAL WORK SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCEMENT OF CONSTRUCTION. A PERIOD OF AT LEAST TEN WORKING DAYS SHALL BE PROVIDED FOR THIS REVIEW. REVIEW OF SHOP DRAWINGS BY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR CORRECT FABRICATION AND CONSTRUCTION OF THE WORK.
- 13. PRINCIPAL OPENINGS ARE SHOWN ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL REFER TO THE FULL SET OF CONTRACT DRAWINGS FOR SLEEVES, CURBS, INSERTS, AND SIMILAR DETAILS NOT SHOWN. SIZE AND LOCATION OF ALL OPENINGS SHALL BE COORDINATED WITH APPROVED SHOP DRAWINGS BY THE CONTRACTOR. ANY CONFLICT BETWEEN THE STRUCTURAL DRAWINGS AND THE REMAINING CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR RESOLUTION PRIOR TO CONSTRUCTION.
- 14. CONSTRUCTION MATERIALS SHALL NOT BE STORED ON THE STRUCTURE IN EXCESS OF THE DESIGN LIVE LOADS UNLESS SPECIFICALLY APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD. IMPACT SHALL BE AVOIDED WHEN PLACING MATERIALS ON ROOFS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENFORCE THESE REQUIREMENTS.
- 5. ALL MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT, DUCTWORK, AND CONDUITS OVER 2"Ø MUST BE SUPPORTED DIRECTLY BY STRUCTURAL FRAMING MEMBERS AND SPACED NO CLOSER THAN 5'-0" O.C.. ATTACHMENT LOADS GREATER THAN 300 LBS. MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD.

METAL ROOF DECK NOTES:

- ALL DECKING SHALL BE MECHANICALLY FASTENED TO THE STEEL ROOF JOISTS AND BEAMS PER THE MANUFACTURER'S RECOMMENDATIONS AND THE STEEL JOIST INSTITUTE'S (SJI) REQUIREMENTS. MECHANICAL FASTENING SHALL MEET A DESIGN STRENGTH EQUAL TO OR EXCEEDING 3/4" PUDDLE WELDS AT A 36/3 PATTERN FOR THE MAIN FIELD, AND 3/4" PUDDLE WELDS AT A 36/4 PATTERN AT ALL EDGES.
- 2. METAL ROOF DECKING SHALL BE 3" DEPTH, 16 GAGE UNO.
- 3. METAL DECKING SHALL BE FABRICATED FROM STEEL IN CONFORMANCE WITH ASTM A611, GRADE C, D, OR E.
- . METAL DECK SHALL BE GALVANIZED (G90).
- 5. SUBMIT DESIGN CAPACITIES, DETAILS, INSTALLATION REQUIREMENTS, REQUIRED LAPS, PLANS, ETC. TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- 6. METAL ROOF DECK SHALL BE PLACED CONTINUOUS OVER A MINIMUM OF THREE SPANS WHEREVER POSSIBLE.
- PROVIDE POUR STOPS, COLUMN COVERS, PENETRATION PANS, AND OTHER MISC METAL ACCESSORIES TO MATCH GAGE AND FINISH OF METAL DECKING. COVER PLATES ARE TO BE INSTALLED AT ALL HIP AND VALLEY LOCATIONS, AND AT ALL RIDGE LOCATIONS NOT RECEIVING RIDGE VENT. INSTALL TO COMPLY WITH SDI PUBLICATION NO 31 AND SDI STANDARD PRACTICE DETAILS SPD2-2001.

FOUNDATION NOTES:

- 1. FOOTINGS SHALL BEAR ON UNDISTURBED SOIL HAVING A MINIMUM ALLOWABLE BEARING CAPACITY OF 500 PSF, WITH A SUBGRADE MODULUS (K) OF 25 PCI.
- 2. IF BEARING MATERIALS WITH A LOWER BEARING CAPACITY THAN NOTED ARE ENCOUNTERED, THE UNDERLYING UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED WITH STRUCTURAL FILL APPROVED BY THE ENGINEER.
- 3. THE FOUNDATION DESIGN IS BASED ON INFORMATION PROVIDED IN THE GEOTECHNICAL REPORT PREPARED BY RAVI ENGINEERING & LAND SURVERING, P.C. FOR TROWBRIDGE WOLF MICHAELS LANDSCAPE ARCHITECTS LLP, "GEOTECHNICAL INVESTIGATION BUFFALO OUTER HARBOR PHASE 2", DATED AUGUST 2020. ENGINEER ASSUMES NO RESPONSIBILITY FOR UNANTICIPATED SUBSURFACE CONDITIONS THAT MAY RESULT IN ADDITIONAL COST TO THE PROJECT.
- 4. ANY OBSTRUCTIONS ENCOUNTERED DURING EXCAVATION WHICH MAY INTERFERE WITH THE CONSTRUCTION OF ANY OF THE FOUNDATIONS OR WALLS MUST BE REMOVED AND REPLACED IN COMPLIANCE WITH NOTE #2 ABOVE.
- THE CONTRACTOR SHALL ENSURE COMPLIANCE WITH ALL APPLICABLE STATE, COUNTY, AND LOCAL BUILDING ORDINANCES.
- 6. NO CONCRETE SHALL BE PLACED IN WATER OR ON FROZEN GROUND. ALL CONCRETE AND FOUNDATIONS SHALL BE PROTECTED AGAINST FROST UNTIL THE PROJECT IS COMPLETED.
- 7. CHAMFER ALL EXPOSED CORNERS 1/2" UNLESS OTHERWISE NOTED.
- 8. BACKFILL UNDER ANY PORTION OF THE BUILDING OR FOUNDATION SHALL BE PLACED IN 12" LIFTS AND COMPACTED TO 95% OF MAX PROCTOR DENSITY, OR AS OTHERWISE APPROVED BY THE ENGINEER.
- 9. ALL CONCRETE WORK SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318-LATEST EDITION) AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301, LATEST EDITION).
- 10. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
- 11. STEEL REINFORCEMENT SHALL BE GALVANIZED AND CONFORM TO ASTM A-615, GRADE 60.
- 12. ALL REINFORCING BARS SHALL BE COLD BENT IN ACCORDANCE WITH THE PROPER RADII ESTABLISHED BY THE A.C.I. UNDER NO CIRCUMSTANCES SHALL HEAT BE APPLIED TO THE BARS TO OBTAIN BENDS.
- 13. WHERE CONTINUOUS BARS ARE CALLED FOR, THEY SHALL BE RUN CONTINUOUSLY AROUND CORNERS AND LAPPED AT NECESSARY SPLICES OR HOOKED AT DISCONTINUOUS ENDS. LAPS SHALL BE 40 BAR DIAMETERS, UNLESS OTHERWISE SHOWN.
- 14. INSTALLATION OF REINFORCEMENT SHALL BE COMPLETED AT LEAST 24 HOURS PRIOR TO SCHEDULED CONCRETE PLACEMENT. NOTIFY ARCHITECT AND ENGINEER OF COMPLETION AT LEAST 24 HOURS PRIOR TO SCHEDULED COMPLETION OF PLACEMENT OF REINFORCEMENT.
- 5. PLACEMENT OF CONCRETE POURS FOR FOUNDATION WALLS SHOULD NOT EXCEED 60' IN LENGTH WITHOUT A VERTICAL 2" x 4" KEY, AND CONTINUOUS REINFORCING (40 BAR DIAMETER MINIMUM) THROUGH THE CONSTRUCTION JOINT.
- 16. DO NOT BACKFILL EXTERIOR WALLS UNTIL PERMANENT STRUCTURAL SUPPORTS (FRAMED FLOORS AND SLABS) OR APPROVED TEMPORARY BRACING ARE IN PLACE.
- 17. CONCRETE SHALL REACH 75% OF SPECIFIED STRENGTH BEFORE CONSTRUCTION LOADS ARE APPLIED, UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER-OF-RECORD. CONCRETE STRENGTH SHALL BE VERIFIED WITH 7-DAY CYLINDER BREAKS.
- 18. SEE ARCH PLANS FOR FINISH REQUIREMENTS FOR EXPOSED CONCRETE. UNLESS OTHERWISE NOTED, FORMED CONCRETE THAT WILL BE EXPOSED SHALL RECEIVE A RUBBED FINISH. IMMEDIATELY AFTER THE REMOVAL OF FORMS, ALL VOIDS AND HONEYCOMBING SHALL BE GROUTED. REMOVE ALL FORM MARKS AND SURFACE IRREGULARITIES PRODUCING A SMOOTH, DENSE SURFACE. FINISH SMOOTH IN TEXTURE AND UNIFORM IN COLOR.

CONCRETE SLAB ON GRADE NOTES:

- ALL CONCRETE WORK SHALL CONFORM TO THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", (ACI LATEST EDITION) AND "SPECIFICATIONS FOR STRUCTURAL STEEL CONCRETE FOR BUILDINGS", (ACI LATEST EDITION.)
- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
- ALL CONCRETE SLABS SHALL BE REINFORCED AS INDICATED ON PLANS.
- SUBMIT DESIGN CAPACITIES, DETAILS, INSTALLATION REQUIREMENTS, REQUIRED LAPS, PLANS, ETC. TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- 5. PROVIDE CONTROL JOINTS IN SLABS ON GRADE AT A SPACING NO GREATER THAN 12' UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS. MINIMUM SAW CUT DEPTH IS 1/4 OF THE DEPTH OF THE SLAB. FILL CUT WITH SILICONE, URATHANE, OR EPOXY FILLER UNLESS OTHERWISE SPECIFIED.
- 6. MONOLITHIC SLABS ON GRADE SHALL BE LIMITED TO MAXIMUM POURS OF 3,600 SQ. FT. PROVIDE BULKHEAD AND POUR ADJACENT SLABS AFTER 4 HRS. (MINIMUM) OF CURE TIME.
- 7. ALL SLABS ARE TO BE WET CURED UNLESS NOTED OTHERWISE.
 DISSIPATING OR MECHANICALLY REMOVED CURING COMPOUNDS
 APPROVED BY THE EOR MAY BE ACCEPTABLE IF COMPATIBLE
 WITH FINISHED FLOOR REQUIREMENTS.

STRUCTURAL STEEL NOTES:

PLATES AND BARS:

- ALL STEEL SHALL BE NEW STEEL, CONFORMING TO AISC 360-16
 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.
- 2. STRUCTURAL STEEL SHALL CONFORM TO OR EXCEED THE FOLLOWING MATERIAL SPECIFICATIONS:
 WIDE FLANGE AND WT SHAPES: ASTM A992
 CHANNELS AND ANGLES: ASTM A992
 PIPE ASTM A53-GRB
 HSS SHAPES: ASTM A500-GRC
 ANCHOR RODS: ASTM F1554-GR55 WITH SUPPLEMENT S1
- 3. NO PERMANENT CONNECTIONS SHOULD BE MADE UP UNTIL THE STRUCTURE HAS BEEN PROPERLY ALIGNED. PROVIDE TEMPORARY BRACING AS REQUIRED.

ASTM A572-GR50

- 4. ALL CONNECTIONS NOT OTHERWISE NOTED ARE SIMPLE SHEAR CONNECTIONS AND SHALL BE DESIGNED TO BE CAPABLE OF SUPPORTING THE DESIGN LOADS INDICATED ON THE PLANS. WHEN NOT PROVIDED, CONNECTIONS SHALL BE DESIGNED FOR NOT LESS THAN ONE-HALF OF THE MAXIMUM ALLOWABLE UNIFORM LOAD FOR THE MEMBER SIZE AND SPAN IN THE AISC STEEL CONSTRUCTION MANUAL.
- 5. ALL SHOP AND FIELD WELDS SHOWN SHALL BE MADE BY APPROVED CERTIFIED WELDERS AND SHALL CONFORM TO THE AWS D1.1. ALL WELDS SHALL DEVELOP THE FULL STRENGTH OF THE MATERIAL BEING WELDED. USE 70 KSI WELD FILLER MATERIAL UNLESS OTHERWISE NOTED.
- 6. ALL STEEL NOT RECEIVING SPRAYED FIRE PROTECTION OR GALVANIZING SHALL HAVE ONE COAT OF RUST INHIBITIVE PRIMER PAINT. TOUCH UP ALL WELDS, SCRATCHES, OR SCRAPES AFTER ERECTION.
- 7. WELD ALL STEEL CONTACT SURFACES (OTHER THAN BOLTED CONNECTIONS) WITH A CONTINUOUS 3/16" (MINIMUM) FILLET WELD, OR MINIMUM WELD THICKNESS PER AWS D1.1.
- THE FABRICATOR SHALL ENGAGE AN ENGINEER TO DESIGN ALL CONNECTIONS NOT EXPLICITLY DETAILED IN THE PLAN SET. PLANS AND CALCULATIONS SHALL SHALL BEAR THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IN NYS, AND CONFORM TO AISC 360. WHERE DESIGN REACTIONS ARE SHOWN ON DRAWINGS, THESE VALUES SUPERSEDE THE MINIMUM CRITERIA IN THE AISC MANUAL. EACH CONNECTION SHALL BE SHOWN IN DETAIL ON THE SHOP DRAWINGS, INCLUDING DESIGN FORCES, AND SUBMITTED TO THE ENGINEER-OF-RECORD FOR REVIEW.
- 9. REPRODUCTION OF THE CONTRACT DRAWINGS FOR USE IN SHOP DRAWING SUBMITTAL IS PROHIBITED. ALL PLANS, SECTIONS, NOTES, AND DETAILS SHALL BE COORDINATED WITH THE THE FULL SET OF CONTRACT DOCUMENTS AND REDRAWN. REPRODUCED CONTRACT DRAWINGS SUBMITTED WILL BE RETURNED WITHOUT REVIEW.
- 10. ALL STRUCTURAL STEEL CONSTRUCTION SHALL CONFORM TO AISC 303-16, "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS & BRIDGES."
- 11. BOLTED CONNECTIONS OF STRUCTURAL MEMBERS SHALL CONFORM TO THE REQUIREMENTS OF THE RCSC "SPECIFICATIONS FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS." UNLESS NOTED OTHERWISE, ALL CONNECTIONS WITH HIGH STRENGTH BOLTS SHALL USE ASTM F3125 BOLTS, F436 HARDENED WASHERS, AND A563 HEAVY HEX NUTS. ALL BOLTS AND NUTS SHALL BE NEW. F959 DTI WASHERS ARE ALSO ACCEPTABLE.
- 13. ALL STEEL BEAMS SHALL BE ERECTED WITH NATURAL CAMBER UP.
- 14. BOLTED CONNECTIONS SHALL BE BEARING TYPE AND DESIGNED ASSUMING THREADS INCLUDED IN THE SHEAR PLANE UNLESS NOTED OR APPROVED OTHERWISE.
- 15. THE USE OF OVERSIZED, SHORT-SLOTTED, OR LONG SLOTTED HOLES IN LIEU OF STANDARD HOLES REQUIRES APPROVAL OF THE ENGINEER-OF-RECORD.
- 16. THE USE OF THERMAL CUTTING IN THE PRODUCTION OR ALTERATION OF BOLT HOLES REQUIRES THE APPROVAL OF THE ENGINEER-OF-RECORD.
- 17. MOMENT CONNECTIONS MAY BE WELDED OR BOLTED UNLESS SPECIFICALLY DETAILED IN THE PLAN SET.

LIGHT GAGE METAL FRAMING NOTES:

- 1. THE LAYOUT SHOWN IS THE RECOMMENDED SCHEME. FINAL SIZES, LOCATIONS, AND DETAILS ARE TO BE PROVIDED BY THE LIGHT GAGE METAL FABRICATOR.
- 2. ALL METAL STUDS SHALL BE 6" 18 GAGE AND CONFORM TO SSMA SPECIFICATIONS. (UNO ON THE STRUCTURAL DRAWINGS).
- 3. CALCULATIONS AND DETAILED SHOP DRAWINGS MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW. DRAWINGS SHALL INCLUDE ALL DESIGN COMPUTATIONS FOR THE FRAMING MEMBERS AND CONNECTIONS AND MUST BE STAMPED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW YORK.
- 4. ALL 12, 14, AND 16 GAGE LIGHTWEIGHT STEEL FRAMING MEMBERS SHALL SATISFY THE REQUIREMENTS OF ASTM A446 GRADE D, WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI; ALL 18 GAGE LIGHTWEIGHT STEEL FRAMING MEMBERS SHALL BE MANUFACTURED FROM STEEL FABRICATED IN ACCORDANCE WITH ASTM A446, GRADE B, WITH A MINIMUM YIELD STRENGTH OF 37,000 PSI; MEMBERS 20 GAGE AND LIGHTER SHALL BE MANUFACTURED FROM STEEL CONFORMING TO ASTM A446 WITH A MINIMUM YIELD STRENGTH OF 33,000 PSI; ALL AS SET FORTH IN THE LATEST EDITION OF THE AISI "SPECIFICATIONS FOR THE DESIGN OF COLDFORMED STEEL STRUCTURAL MEMBERS".
- 5. ALL MATERIALS SHALL BE HOT-DIPPED GALVANIZED STEEL FOR GREATER CORROSION RESISTANCE, CONFORMING TO FEDERAL SPECIFICATION QQS-775, TYPE 1, CLASS D AND ASTM A525.
- 6. ALL FIELD ABRASIONS TO MEMBERS FROM WELDING SHALL BE TOUCHED UP WITH A ZINC RICH PAINT.
- CONNECTIONS OF LIGHT STEEL FRAMING MEMBERS SHALL BE BY SELF DRILLING SCREWS OR BY WELDING IN STRICT ACCORDANCE WITH THE MANUFACTURERS' REQUIREMENTS. WIRE TYING OF FRAMING MEMBERS WILL NOT BE PERMITTED.
- 8. TOP AND BOTTOM TRACKS SHALL BE SECURELY ANCHORED TO CEILING OR ROOF STRUCTURE OVERHEAD AND TO FLOOR STRUCTURE BELOW. SILL OR BASE TRACK SHALL BE ANCHORED WITH ANCHOR BOLTS, CONCRETE NAILS, POWDER ACTUATED FASTENERS, SCREWS, EXPANSION BOLTS OR BY WELDING. MAXIMUM SPACING FOR ANCHORS SHALL BE 24" ON CENTER AND NO NEARER THAN 4" FROM EITHER END OF TRACK. CONNECTION OF STUDS TO TRACKS AT THE UNDERSIDE OF THE STEEL BEAMS OR OTHER ROOF FRAMING MEMBERS SHALL HAVE A SLIP OR SLOTTED CONNECTION AS REQUIRED TO ALLOW FOR VERTICAL DEFLECTION OF THE ROOF FRAMING MEMBER.
- . STUD BRIDGING REQUIREMENTS:
 UP TO 10'-0" IN HEIGHT: TWO ROWS OF BRIDGING, EQ. SPACED
 OVER 10'-0" IN HEIGHT: BRIDGING ROWS SPACED 3'-4" O.C. MAX.

WOOD FRAMING NOTES:

- 1. ALL FRAMING LUMBER SHALL BE HEM-FIR OR SPF (SPRUCE-PINE-FIR) SELECT STRUCTURAL GRADE NO. 2, SURFACED GREEN OR APPROVED EQUAL (UNLESS OTHERWISE SPECIFIED) AND SHALL MEET THE REQUIREMENTS OF THE NATIONAL FOREST PRODUCTS ASSOCIATION (NFPA). THE MINIMUM ALLOWABLE BENDING STRESS (Fb) SHALL BE 875 PSI. THE MINIMUM ALLOWABLE COMPRESSION STRESS (Fc) SHALL BE 405 PSI. THE MINIMUM ALLOWABLE MODULUS OF ELASTICITY (E) SHALL BE 1,300,000 PSI. INTERIOR NON-LOAD BEARING STUDS MAY BE SURFACED DRY NO. 2 SPRUCE ONLY UPON THE APPROVAL OF THE ENGINEER.
- 2. USE FULLY NAILED METAL JOIST OR BEAM CONNECTORS (TECO, SIMPSON, OR APPROVED EQUAL) WHEN JOISTS OR BEAMS FRAME INTO OTHER JOISTS OR BEAMS.
- 3. ALL FRAMING SHALL BE INSTALLED IN ACCORDANCE WITH THE NEW YORK STATE BUILDING CODE REQUIREMENTS AND GENERAL FRAMING PRACTICE AS DETAILED IN "ARCHITECTURAL GRAPHICS STANDARDS" BY RAMSEY & SLEEPER.
- 4. BUILT UP BEAMS AND POSTS USING CONVENTIONAL FRAMING LUMBER SHALL BE FULLY SPIKED TOGETHER WITH 2-10d GALVANIZED NAILS (TOP & BOTTOM) AT 12" ON CENTER. BUILT UP BEAMS USING MICROLLAMS SHALL BE FULLY SPIKED TOGETHER WITH TWO 16d NAILS (TOP & BOTTOM) AT 8" ON CENTER, OR WITH TWO 1/2" Ø X 3" LONG LAG BOLTS (TOP & BOTTOM) AT 16" ON CENTER
- 5. ALL WOOD MEMBERS IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.
- ALL FASTENERS IN PRESSURE TREATED WOOD SHALL BE HOT DIPPED GALVANIZED.

	CONCRETE MATERIALS	150 PCF
,	STEEL MATERIALS	490 PCF
	WOOD MATERIALS	45 PCF
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	OTTLENO	
	DECKING	100 PSF
	ROOF (CONSTRUCTION)	20 PSF
	SNOW	
	CATEGORY/IMPORTANCE Is	II / 1.0
	GROUND Pg	50 PSF
	EXPOSURE Ce	0.8
	THERMAL Ct	1.2
	FLAT ROOF Pf	34 PSF
	DRIFTING	PER ASCE 7-16
	WIND	
	CATEGORY	II
	BASIC WIND SPEED V s	115 MPH
	EXPOSURE	D
	INTERNAL PRESSURE COEFFICIENT	±0.18
	MAX. MWFRS PRESSURE	±35 PSF
	MAX. COMPONENTS & CLADDING	±50 PSF
	IVIAA. COIVII OIVEIVIO & CEADDIIVO	
-		
-	SEISMIC	1/10
	SEISMIC USE GROUP/IMPORTANCE le	I/1.0 0.255/0.123
	SEISMIC USE GROUP/IMPORTANCE le Sds / Sd1	0.255 / 0.123
-	SEISMIC USE GROUP/IMPORTANCE Ie Sds / Sd1 SITE CLASS	0.255 / 0.123 E
-	SEISMIC USE GROUP/IMPORTANCE le Sds / Sd1	0.255 / 0.123 E B ORDINARY STEEL
	SEISMIC USE GROUP/IMPORTANCE IE Sds / Sd1 SITE CLASS DESIGN CATEGORY BASIC SEISMIC FORCE RESISTING SYSTEM	0.255 / 0.123 E B ORDINARY STEEL MOMENT FRAME
	SEISMIC USE GROUP/IMPORTANCE IE Sds / Sd1 SITE CLASS DESIGN CATEGORY BASIC SEISMIC FORCE RESISTING SYSTEM RESPONSE MODIFICATION FACTOR R	0.255 / 0.123 E B ORDINARY STEEL MOMENT FRAME 1.25
	SEISMIC USE GROUP/IMPORTANCE IE Sds / Sd1 SITE CLASS DESIGN CATEGORY BASIC SEISMIC FORCE RESISTING SYSTEM	0.255 / 0.123 E B ORDINARY STEEL MOMENT FRAME
	SEISMIC USE GROUP/IMPORTANCE IE Sds / Sd1 SITE CLASS DESIGN CATEGORY BASIC SEISMIC FORCE RESISTING SYSTEM RESPONSE MODIFICATION FACTOR R ANALYSIS PROCEDURE	0.255 / 0.123 E B ORDINARY STEEL MOMENT FRAME 1.25
	SEISMIC USE GROUP/IMPORTANCE IE Sds / Sd1 SITE CLASS DESIGN CATEGORY BASIC SEISMIC FORCE RESISTING SYSTEM RESPONSE MODIFICATION FACTOR R ANALYSIS PROCEDURE GEOTECHNICAL DATA	0.255 / 0.123 E B ORDINARY STEEL MOMENT FRAME 1.25 EQ. LATERAL FORCE
	SEISMIC USE GROUP/IMPORTANCE IE Sds / Sd1 SITE CLASS DESIGN CATEGORY BASIC SEISMIC FORCE RESISTING SYSTEM RESPONSE MODIFICATION FACTOR R ANALYSIS PROCEDURE GEOTECHNICAL DATA NET ALLOWABLE BEARING PRESSURE	0.255 / 0.123 E B ORDINARY STEEL MOMENT FRAME 1.25 EQ. LATERAL FORCE
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	SEISMIC USE GROUP/IMPORTANCE IE Sds / Sd1 SITE CLASS DESIGN CATEGORY BASIC SEISMIC FORCE RESISTING SYSTEM RESPONSE MODIFICATION FACTOR R ANALYSIS PROCEDURE GEOTECHNICAL DATA NET ALLOWABLE BEARING PRESSURE REFERENCED COD 2020 NYSBC ASCE 7-16 MINIMUM DESIGN LOADS FOR BUILDINGS	0.255 / 0.123 E B ORDINARY STEEL MOMENT FRAME 1.25 EQ. LATERAL FORCE 500 PSF
	SEISMIC USE GROUP/IMPORTANCE IE Sds / Sd1 SITE CLASS DESIGN CATEGORY BASIC SEISMIC FORCE RESISTING SYSTEM RESPONSE MODIFICATION FACTOR R ANALYSIS PROCEDURE GEOTECHNICAL DATA NET ALLOWABLE BEARING PRESSURE REFERENCED COD 2020 NYSBC ASCE 7-16 MINIMUM DESIGN LOADS FOR BUILDINGS AISC 360-16 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS	0.255 / 0.123 E B ORDINARY STEEL MOMENT FRAME 1.25 EQ. LATERAL FORCE 500 PSF ES
	SEISMIC USE GROUP/IMPORTANCE IE Sds / Sd1 SITE CLASS DESIGN CATEGORY BASIC SEISMIC FORCE RESISTING SYSTEM RESPONSE MODIFICATION FACTOR R ANALYSIS PROCEDURE GEOTECHNICAL DATA NET ALLOWABLE BEARING PRESSURE REFERENCED COD 2020 NYSBC ASCE 7-16 MINIMUM DESIGN LOADS FOR BUILDINGS AISC 360-16 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS AISC 303-16 CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS	0.255 / 0.123 E B ORDINARY STEEL MOMENT FRAME 1.25 EQ. LATERAL FORCE 500 PSF ES ILDINGS BUILDINGS AND BRIDGES
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STRUCTURAL DESIGN LOADS

ABBREVIATIONS

BLDG. DIA. E.F. EL. EMBED. EQ. E.W. FND. GALV. HORZ. MAX. MIN. O.C. REINF. SF T&B	BUILDING DIAMETER EACH FACE ELEVATION EMBEDMENT EQUAL EACH WAY FOUNDATION GALVANIZED HORIZONTAL MAXIMUM MINIMUM ON CENTER REINFORCEMENT SQUARE FEET TOP AND BOTTOM
SF	SQUARE FEET
T&B T.O.C.	TOP AND BOTTOM TOP OF CONCRETE
TYP UNO	TYPICAL UNLESS NOTED OTHERW

A FISHER ASSOCIATES
LANDSCAPE ARCHITECTURE STUDI
1001 W. SENECA ST. STE. 201 PHONE 607-277-140
ITHACA, NY 14850



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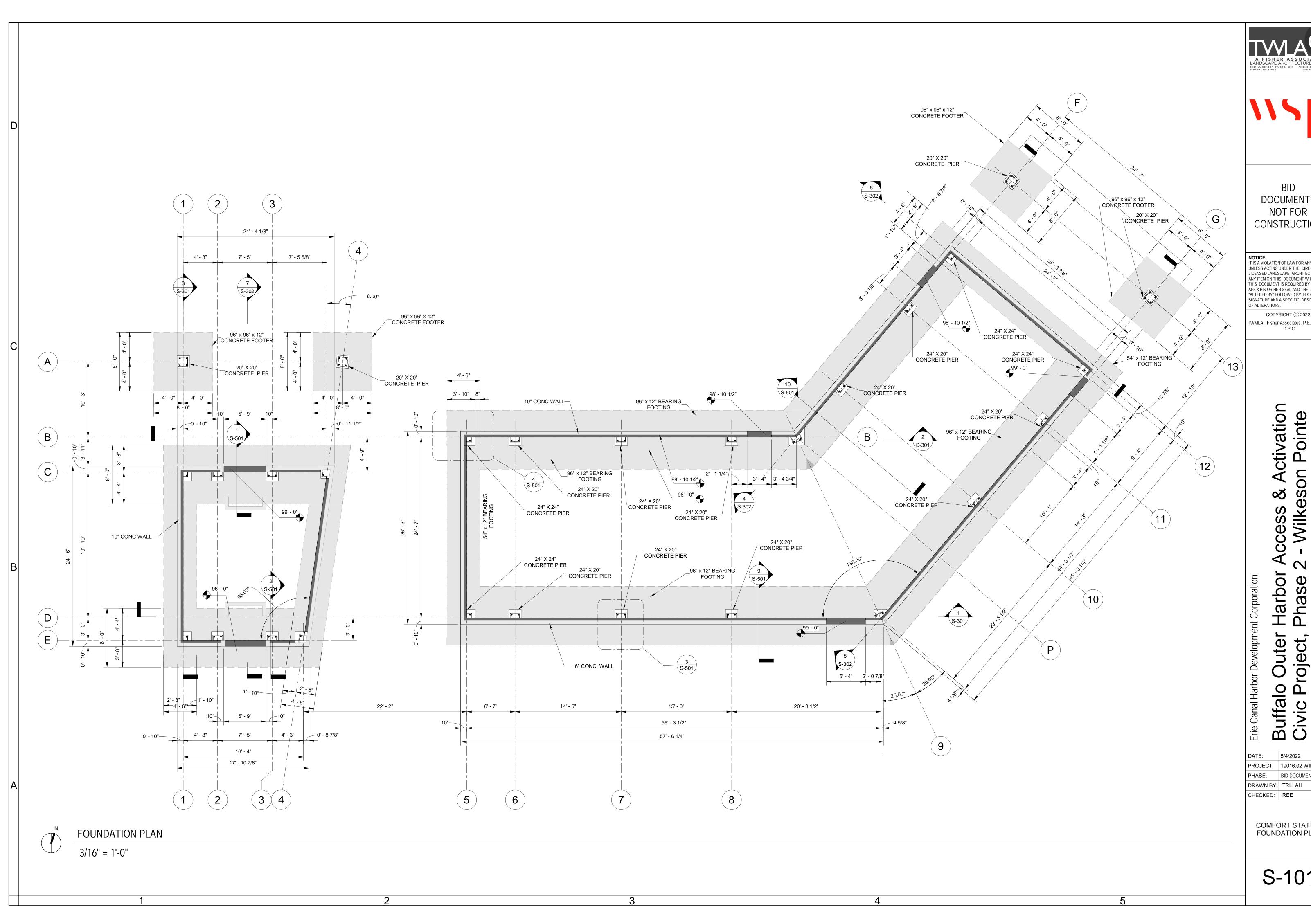
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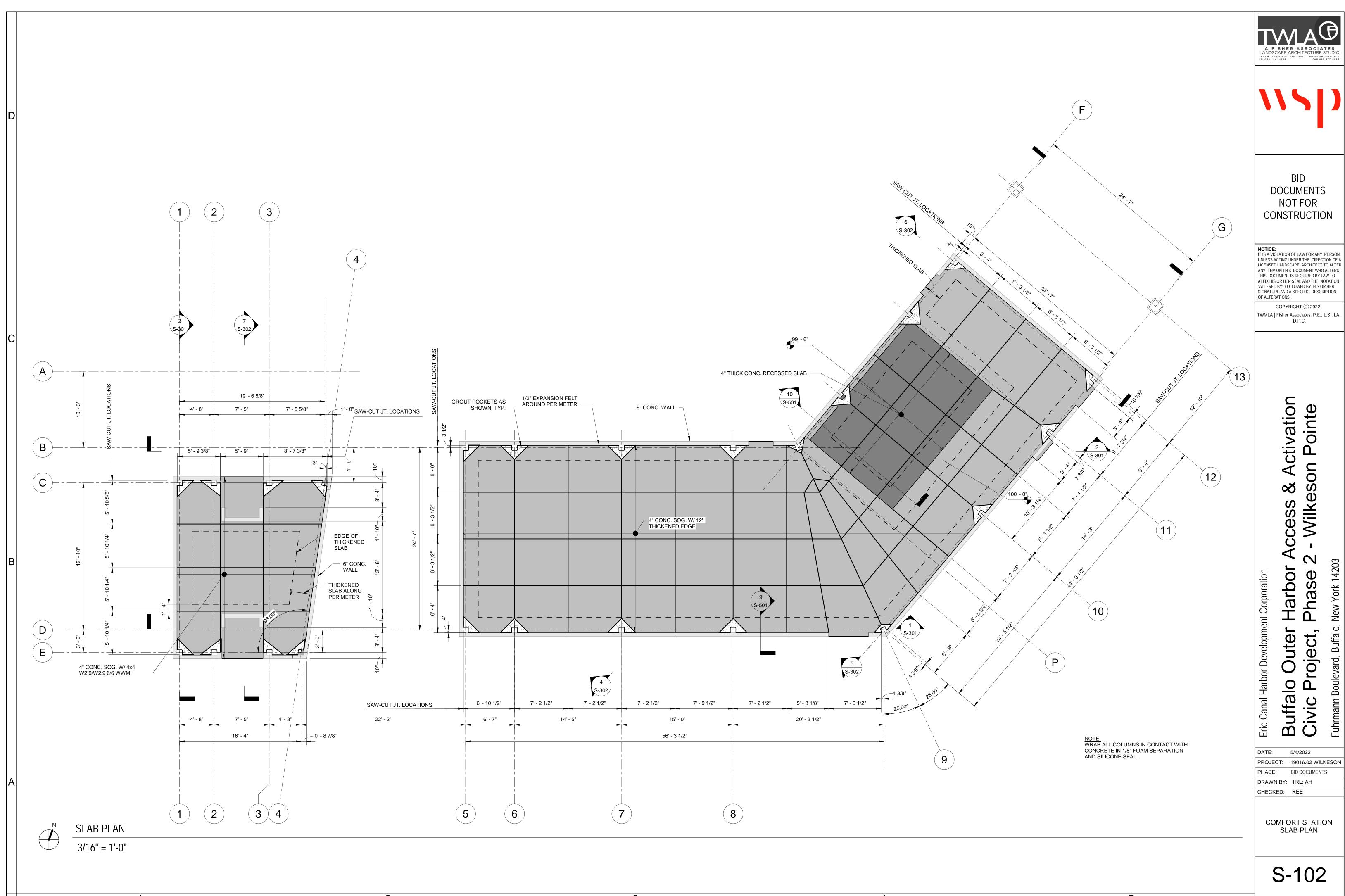
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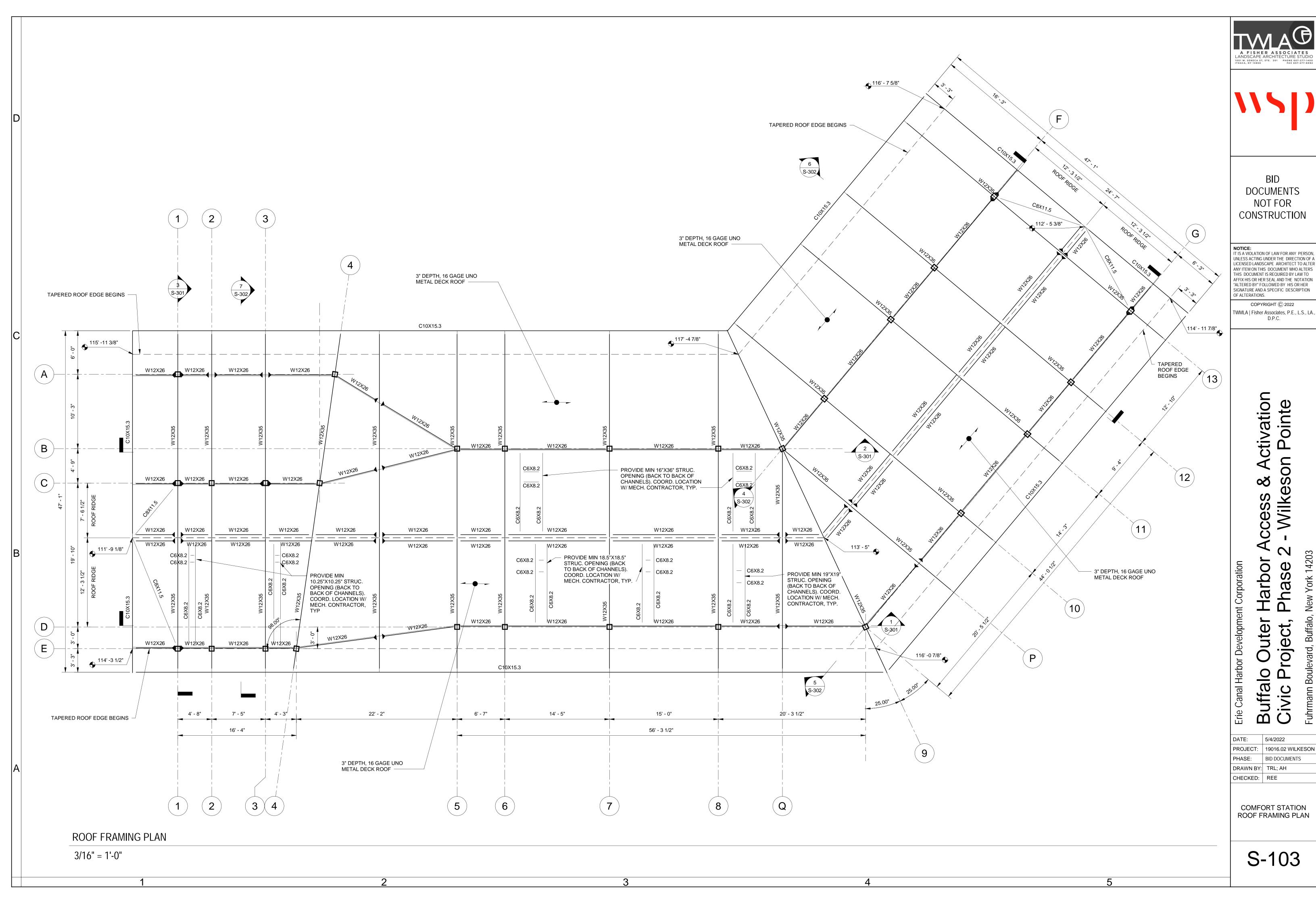
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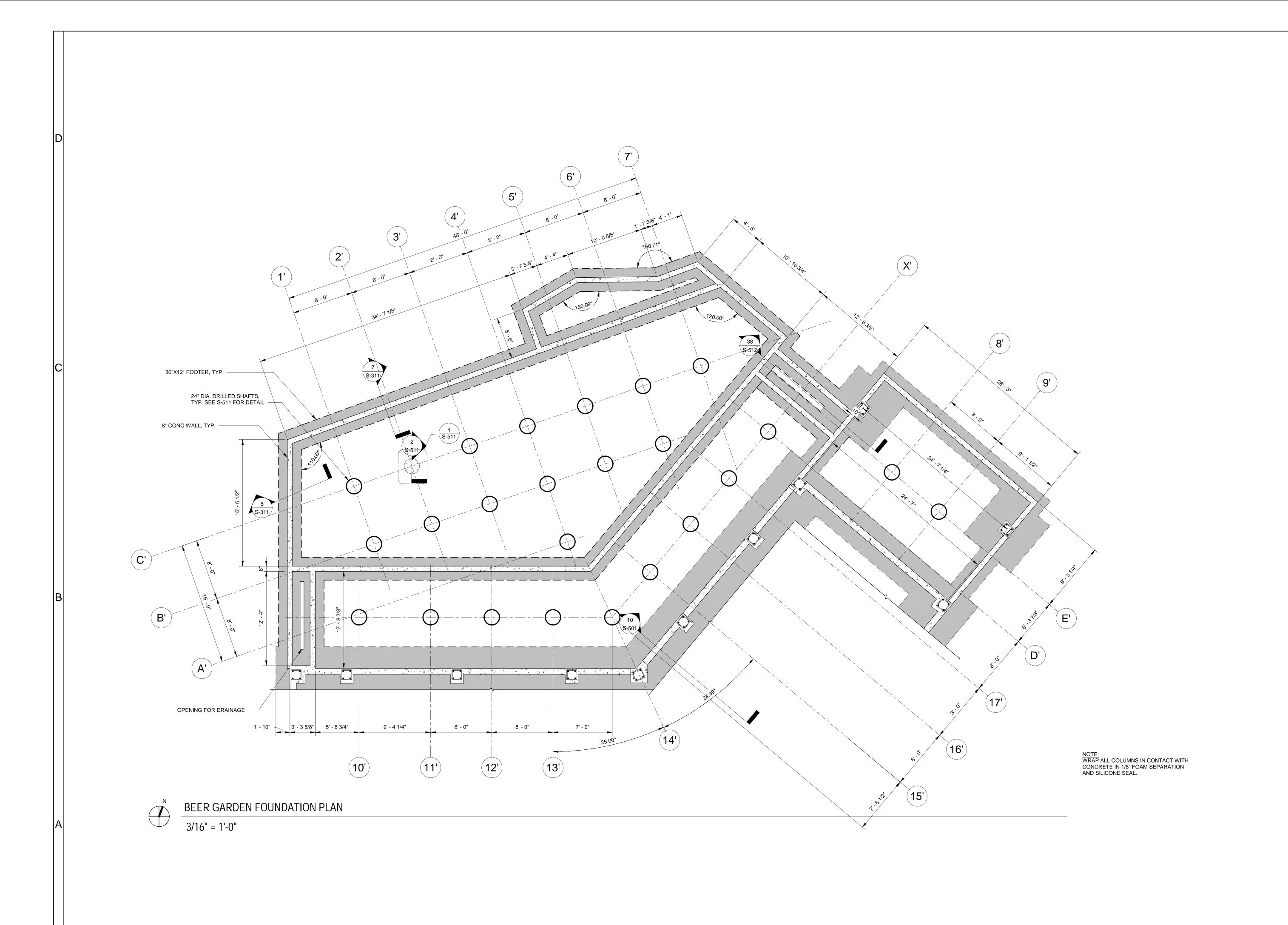
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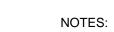
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BEER GARDEN FOUNDATION PLAN



 2X6 DECKING TO BE USED IN THE TRANVERSE DIRECTION WITH RESPECT TO THE 2X8 JOISTS.





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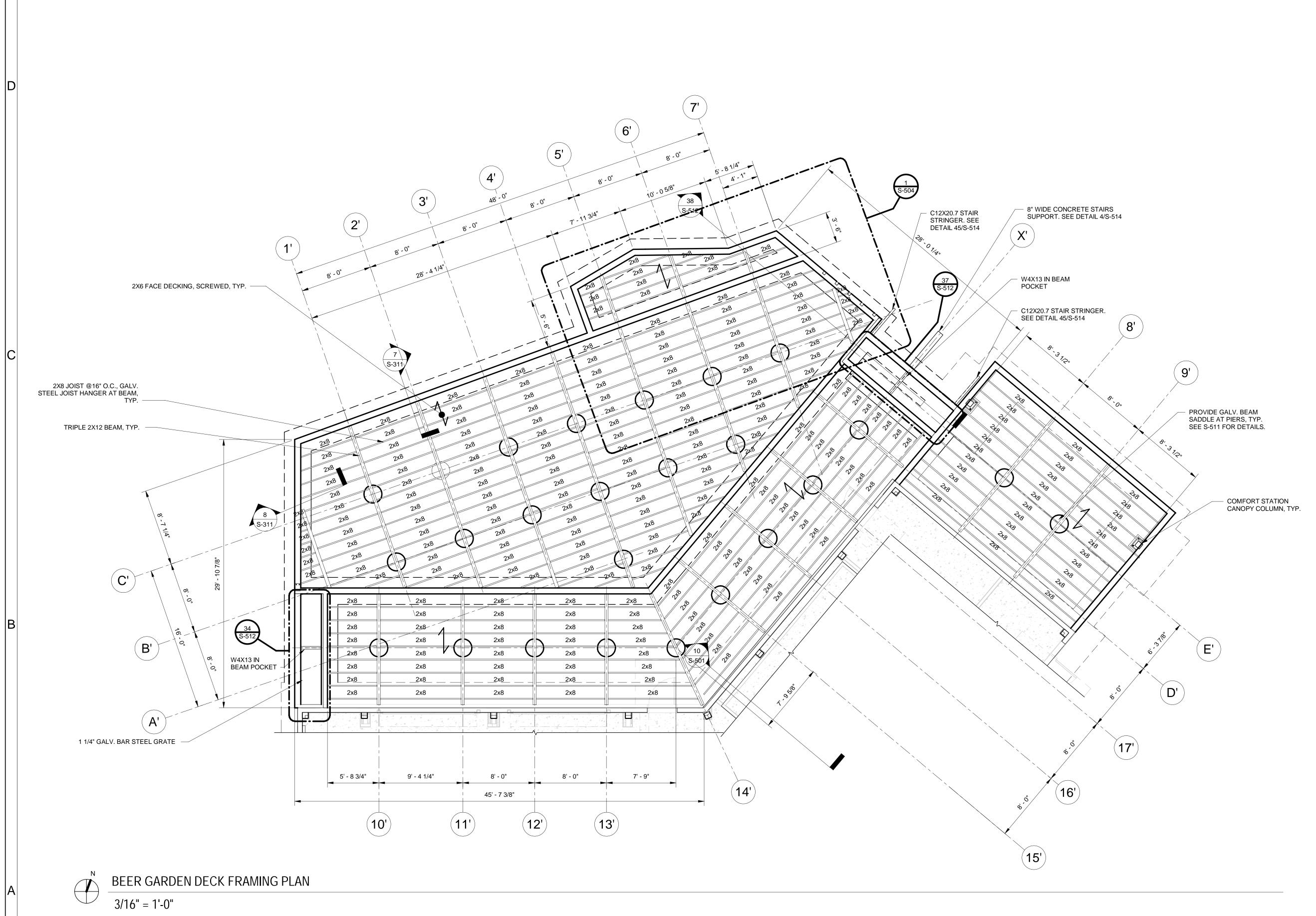
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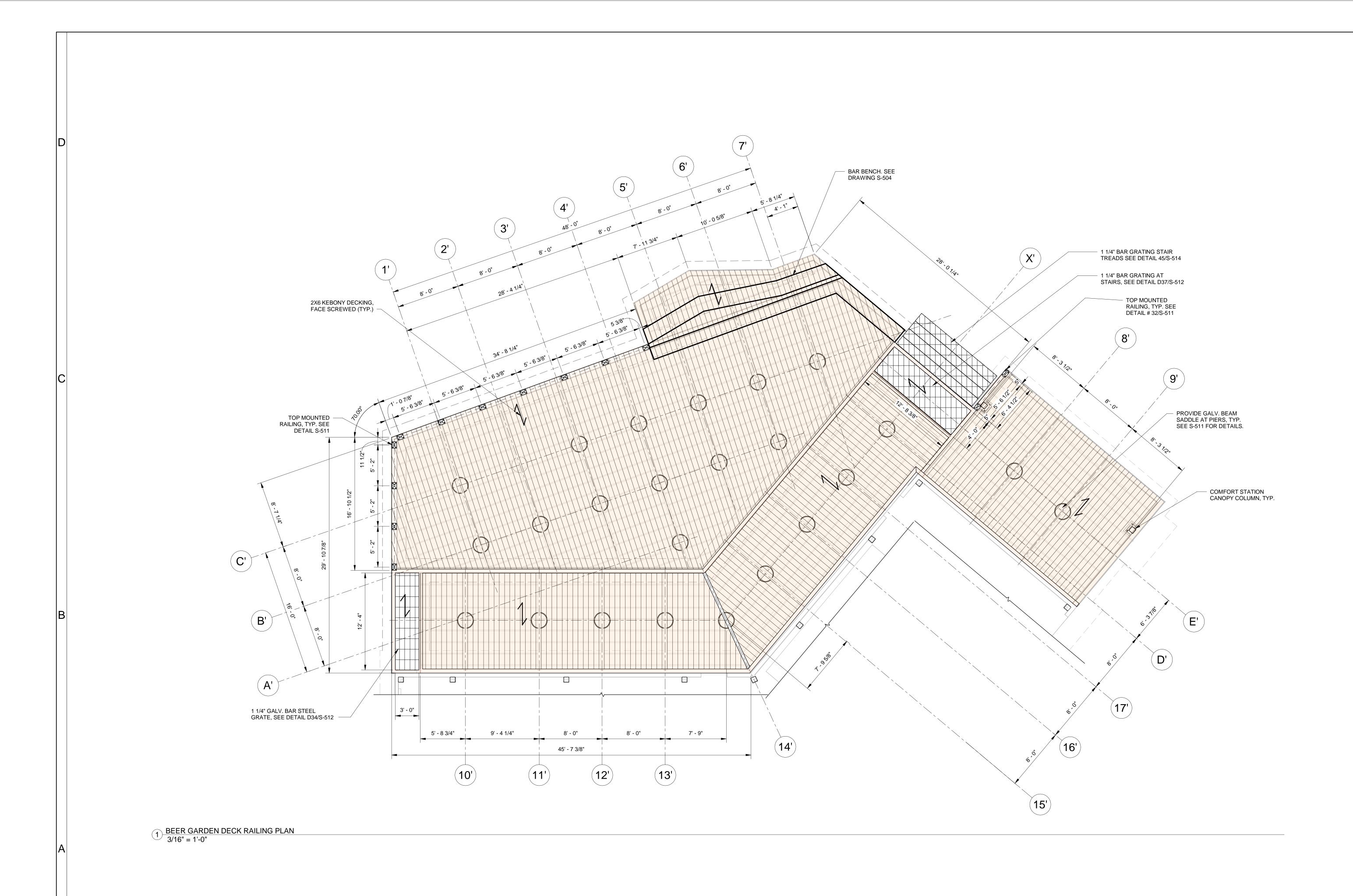
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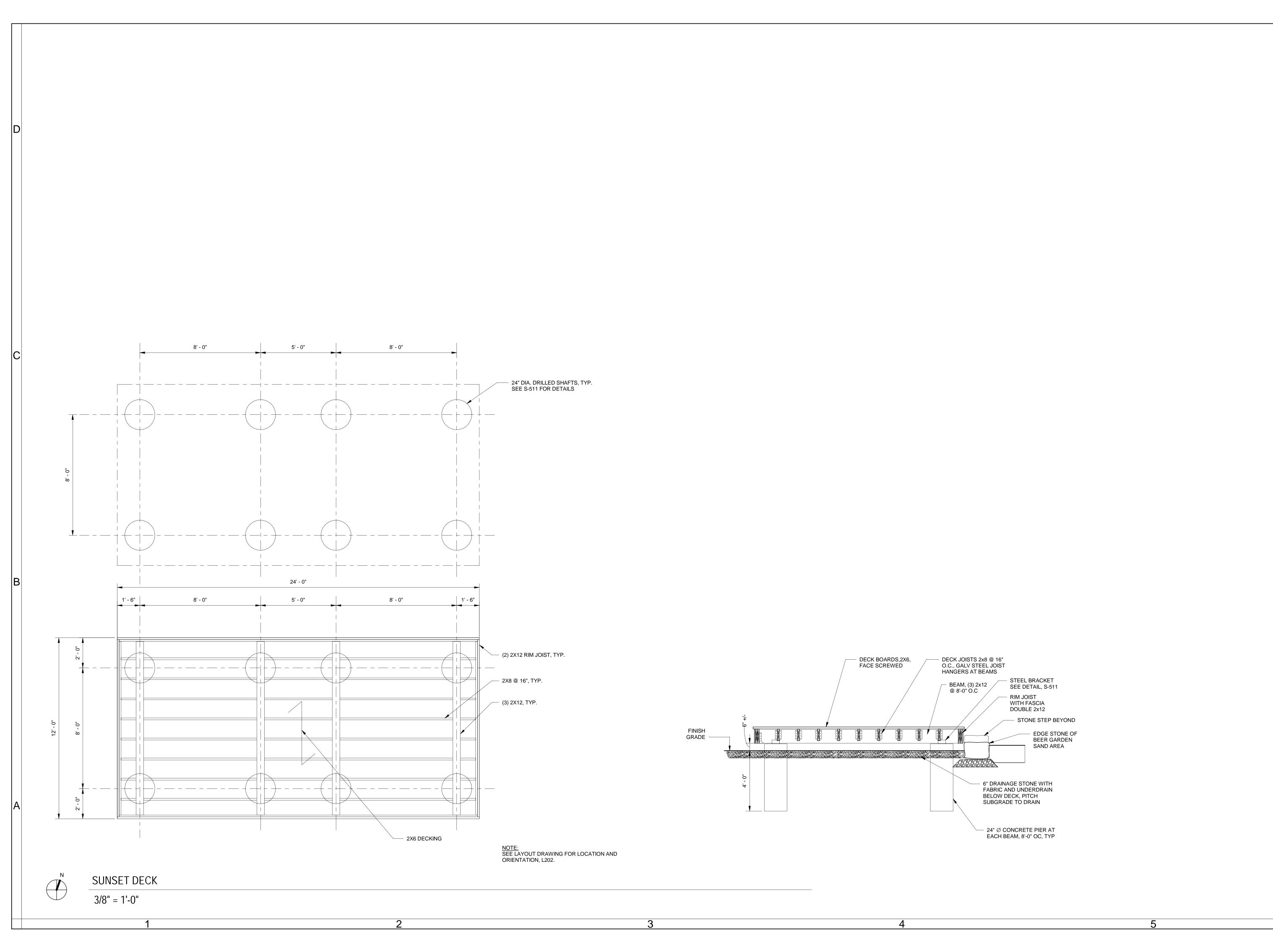
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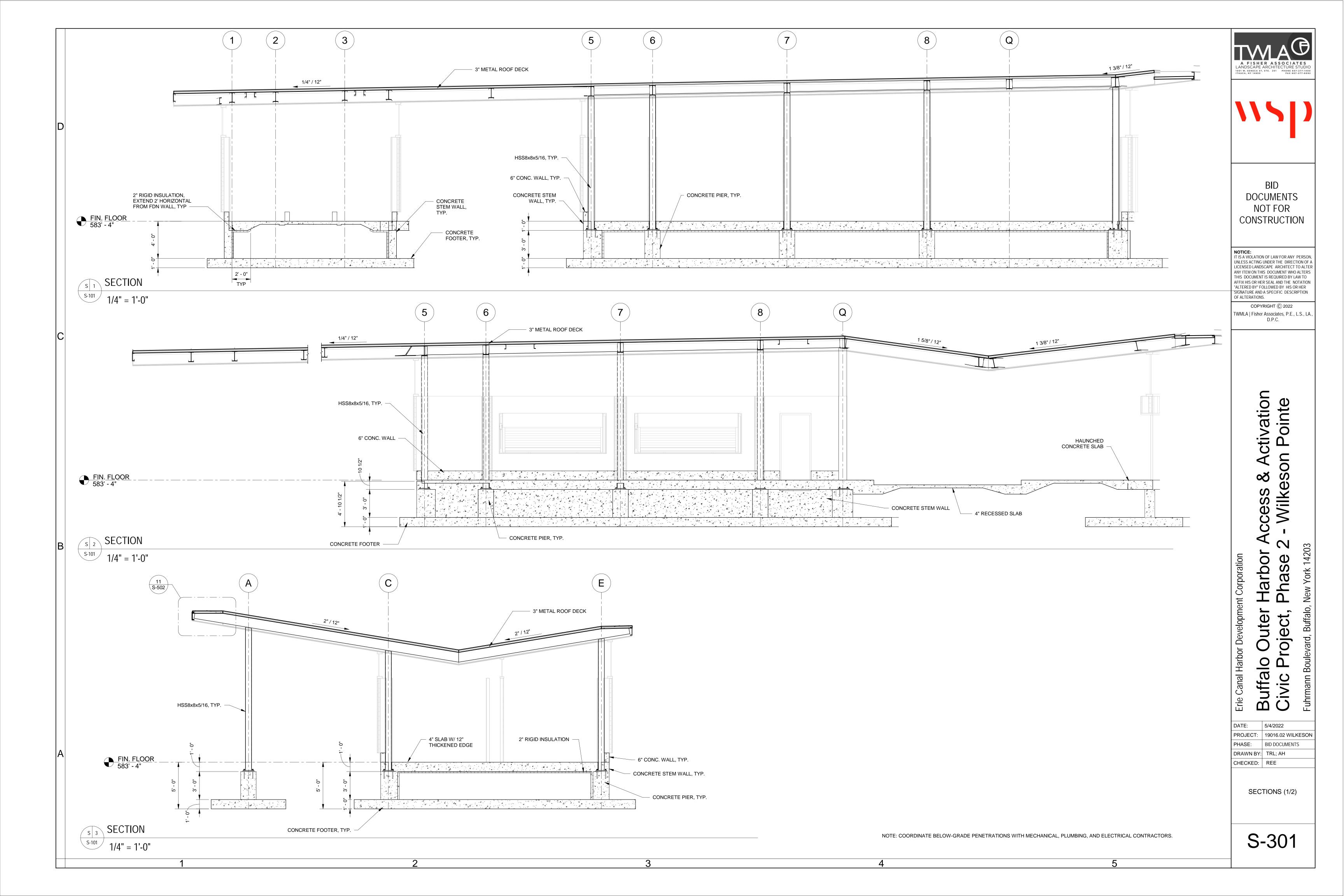
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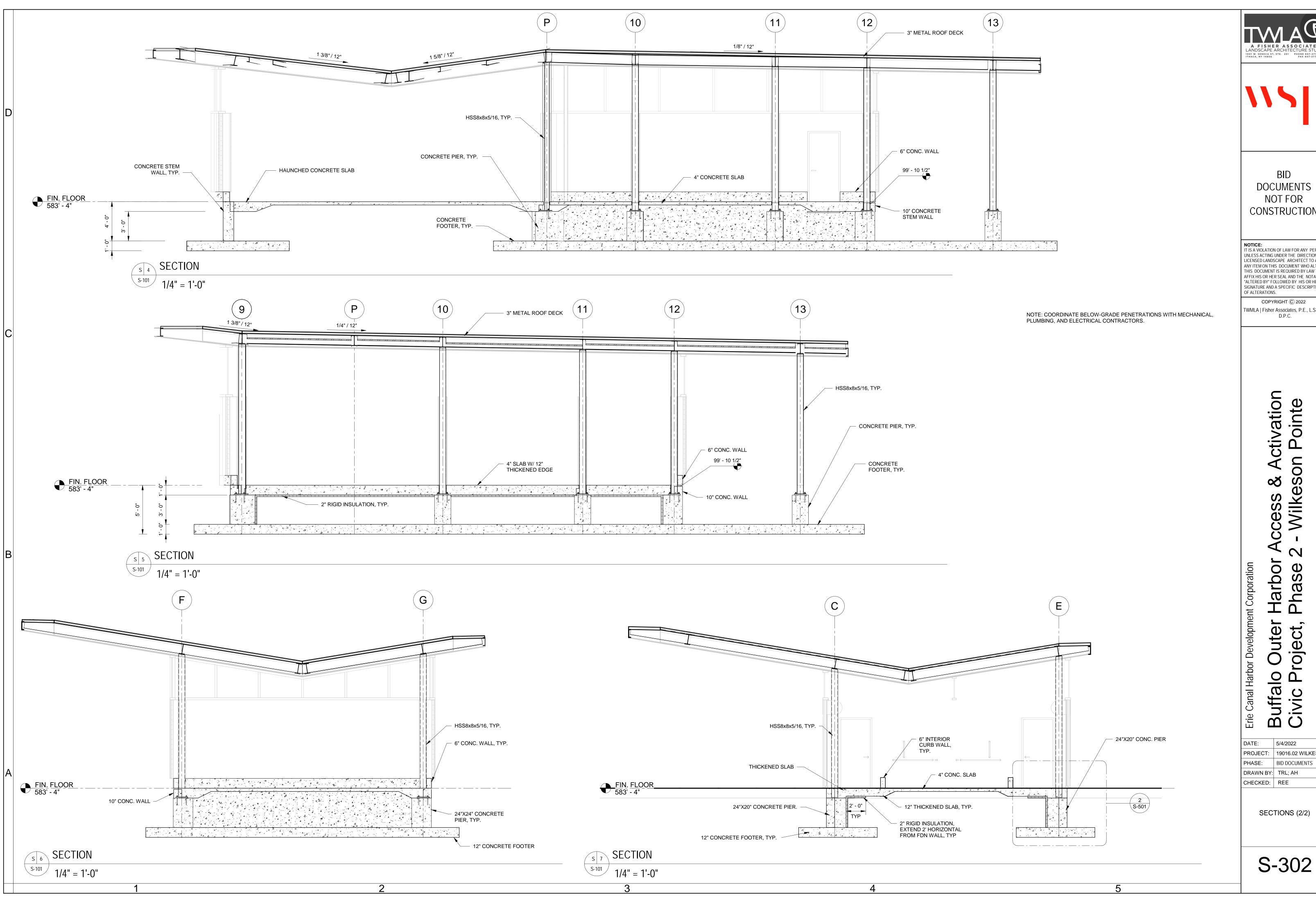
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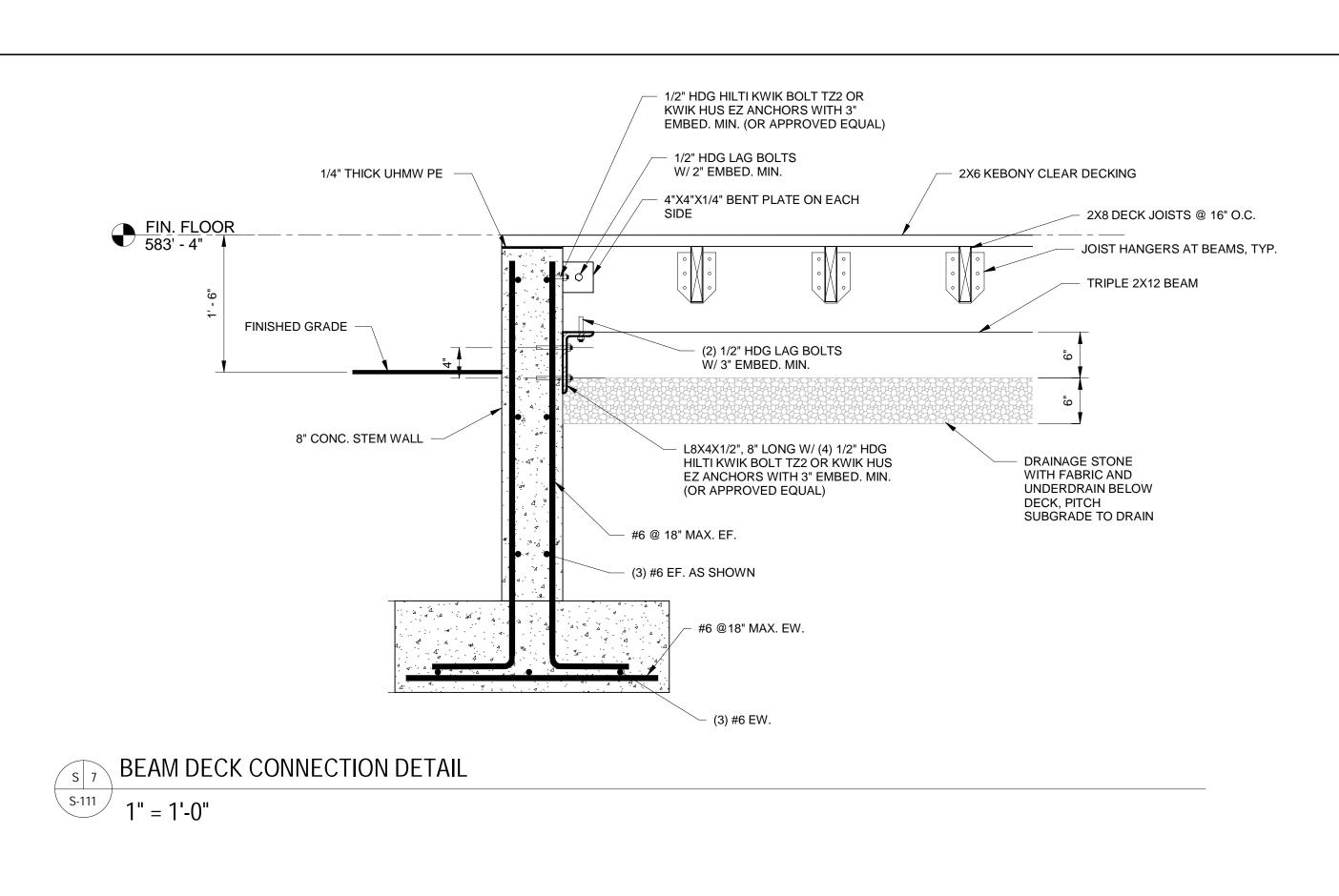
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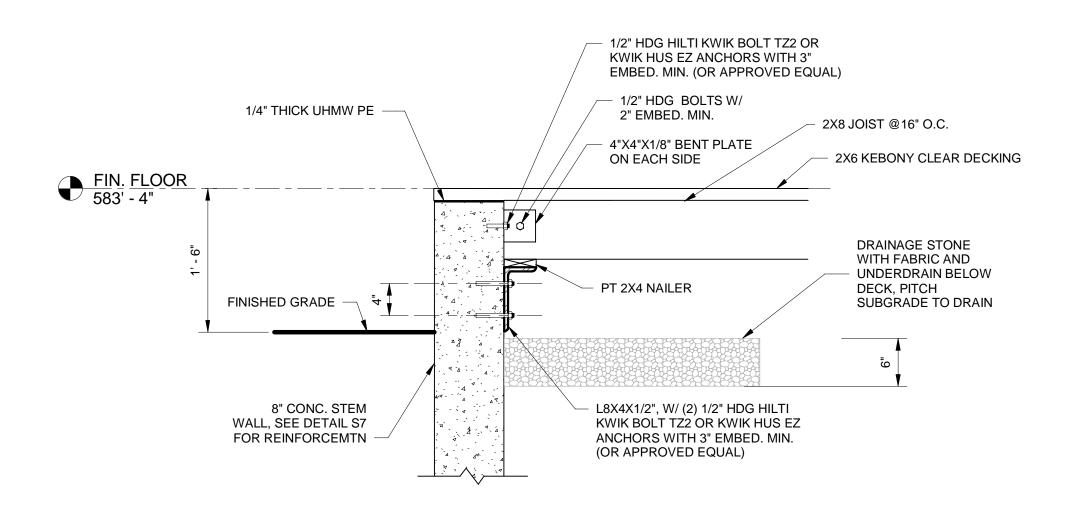
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SECTIONS (2/2)





JOIST DECK CONNECTION DETAIL S 8 JOIST DEC S-111 1" = 1'-0"



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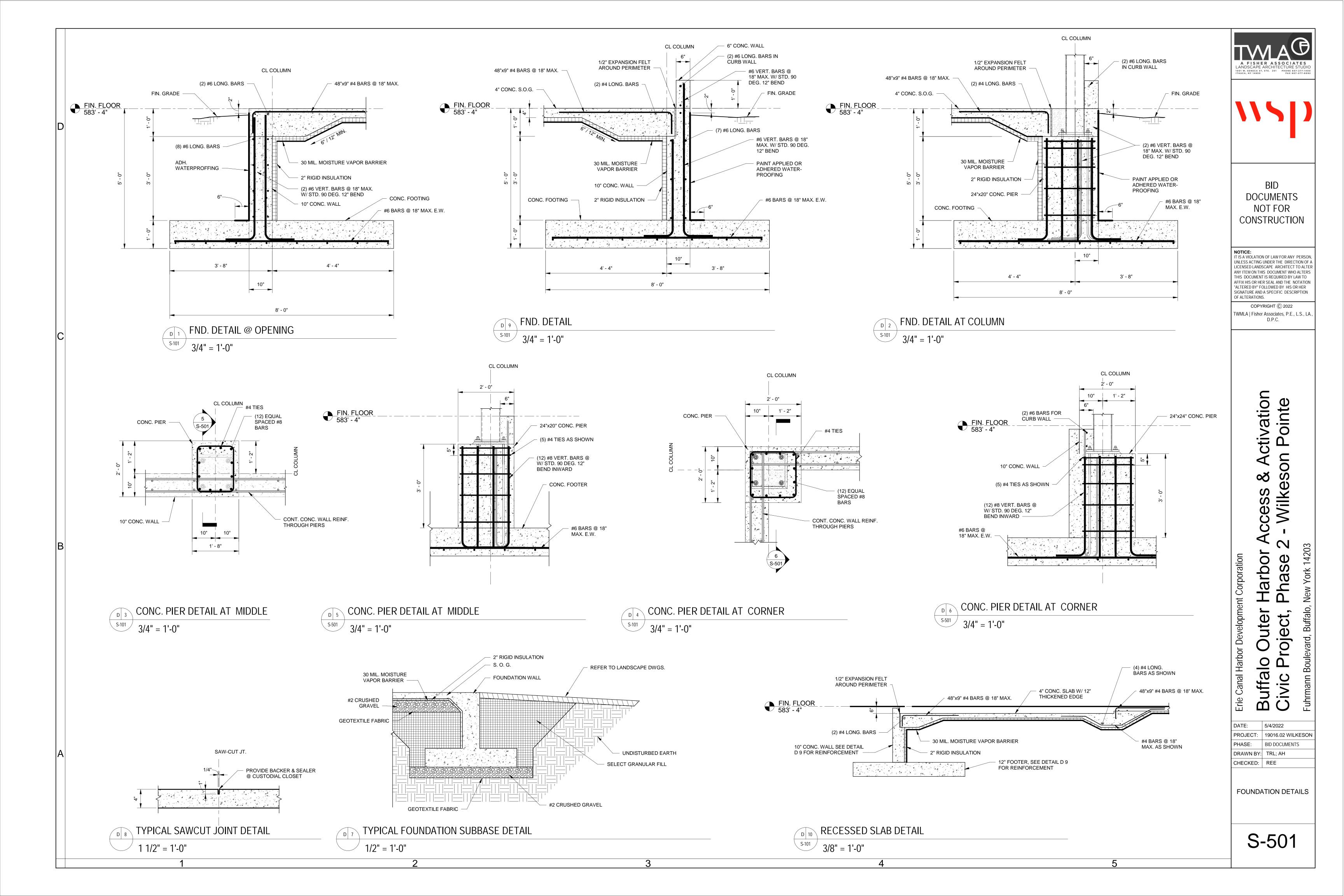
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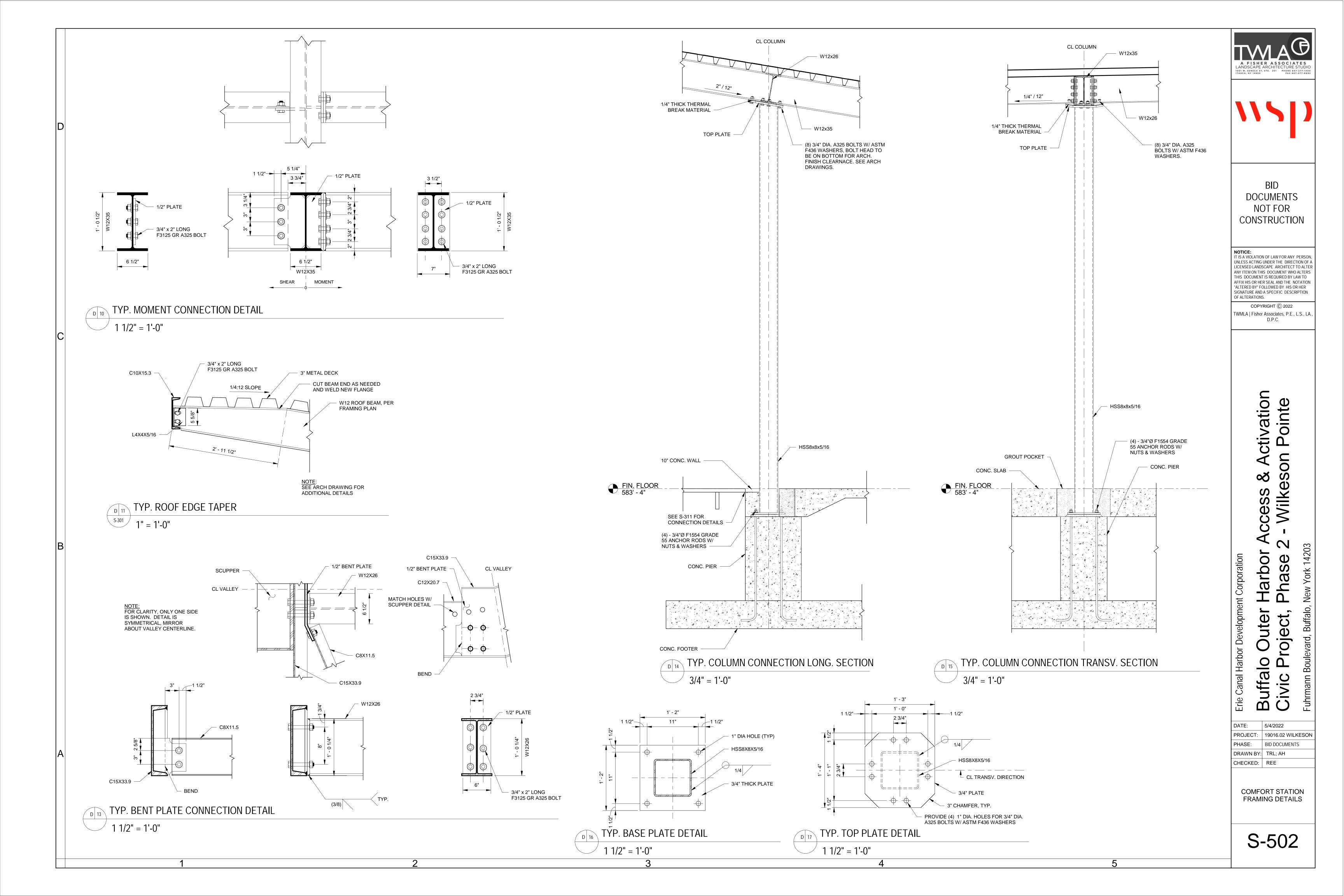
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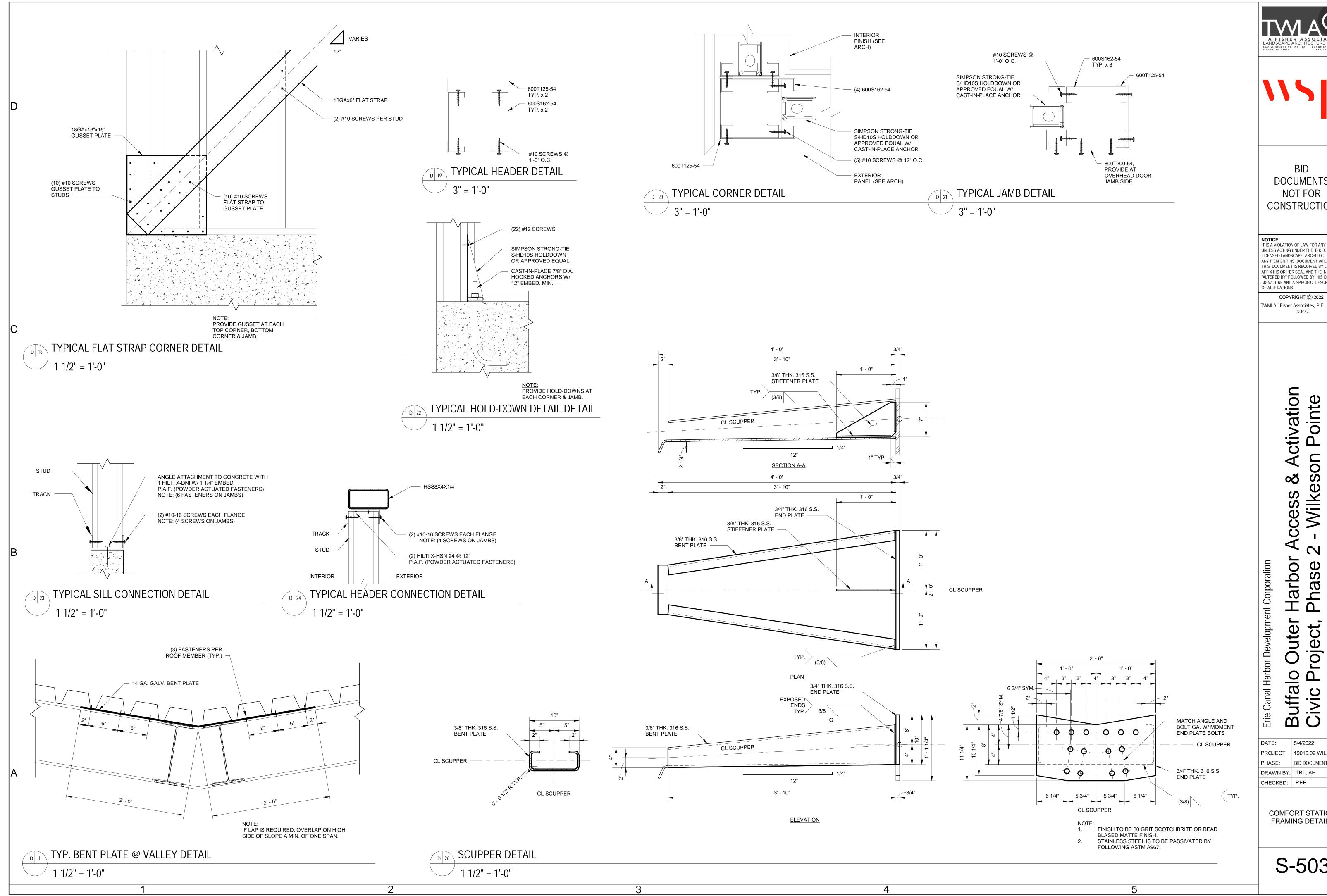
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BEER GARDEN DECK SECTION











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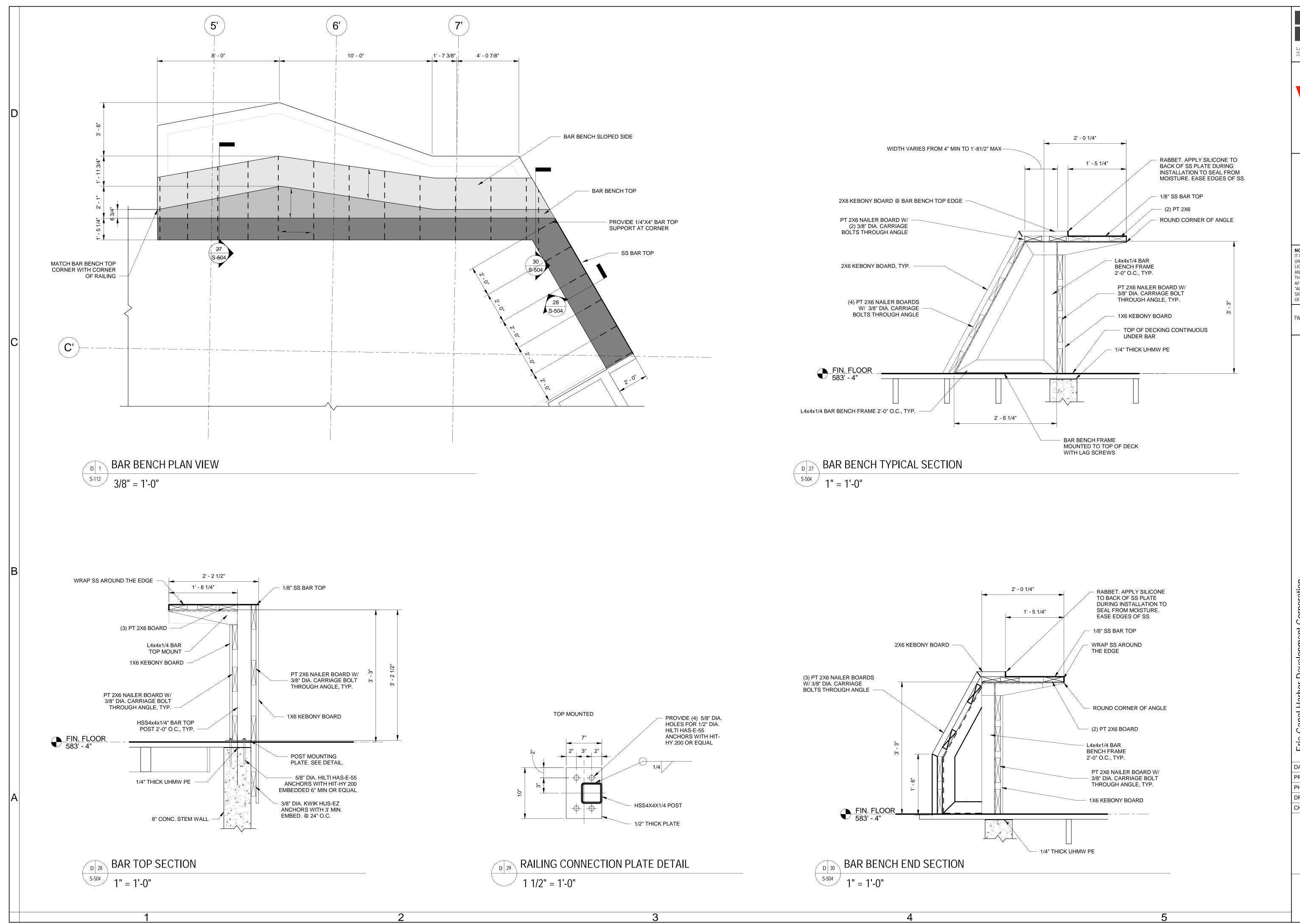
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COMFORT STATION FRAMING DETAILS







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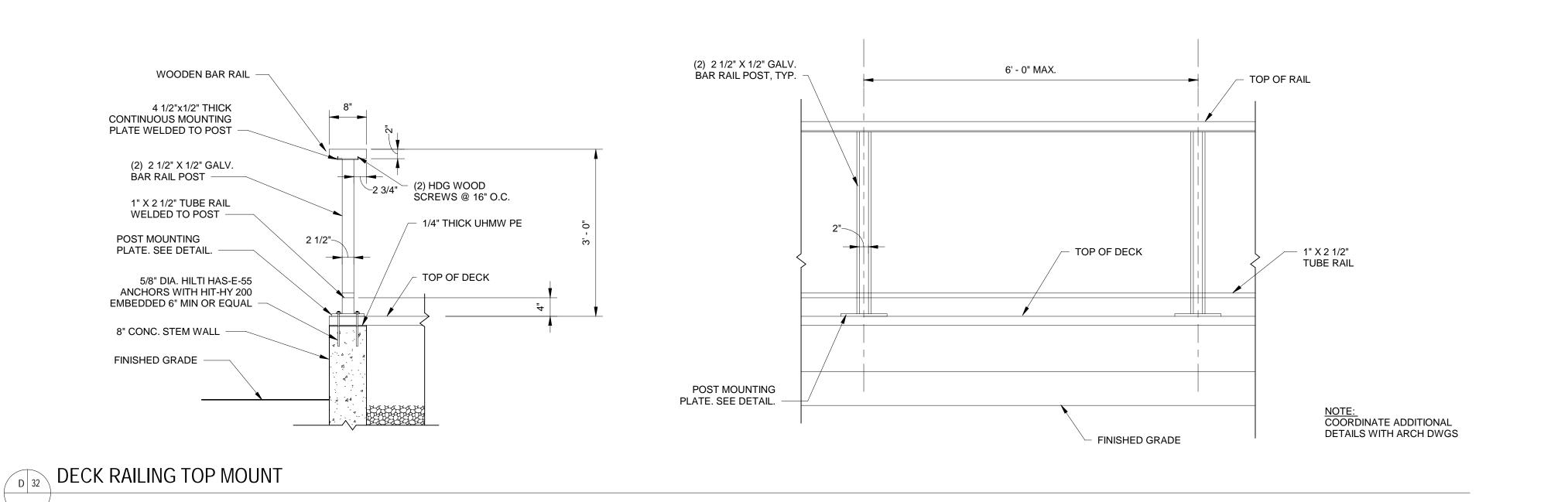
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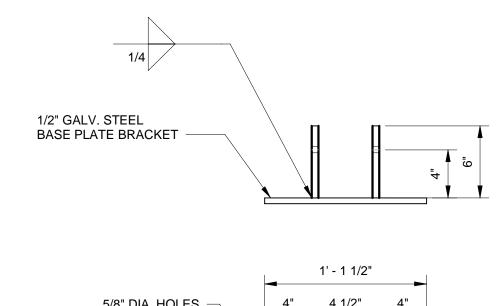
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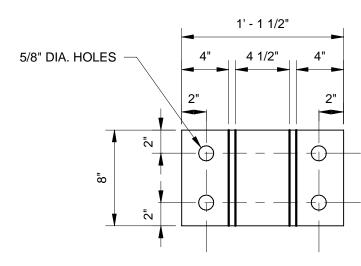
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DATE:	5/4/2022
PROJECT:	19016.02 WILKESON
PHASE:	BID DOCUMENTS
DRAWN BY:	TRL; AH
CHECKED:	REE
	PROJECT: PHASE: DRAWN BY:

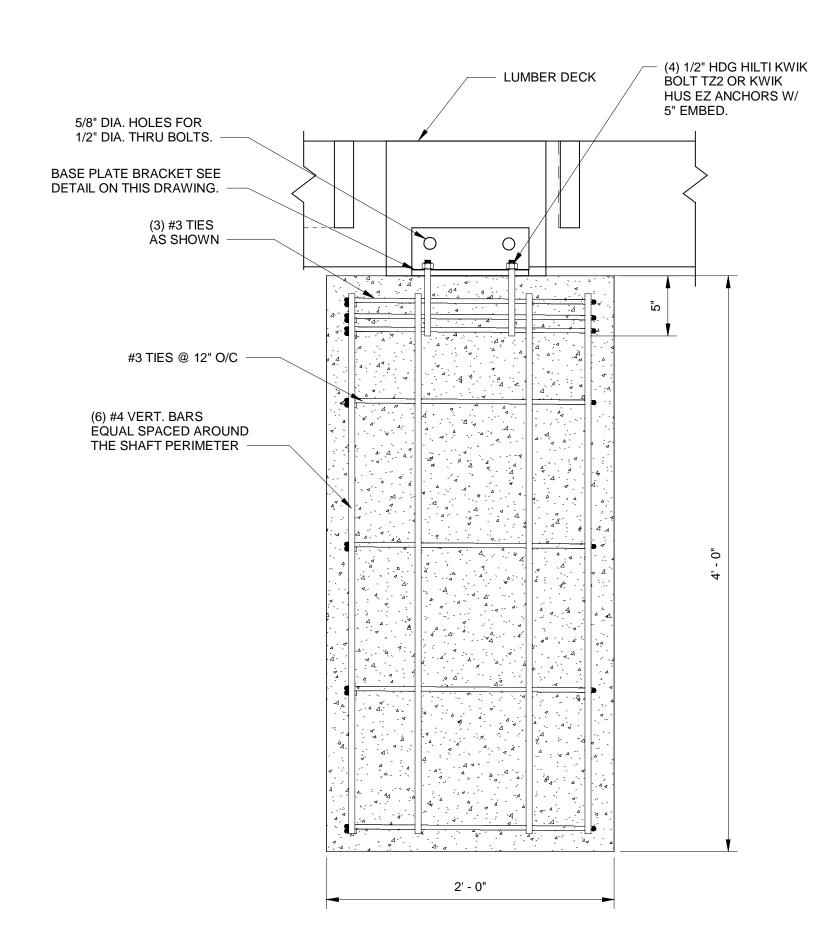
BAR BENCH DETAILS







3 BASE PLATE BRACKET DETAIL 1 1/2" = 1'-0"









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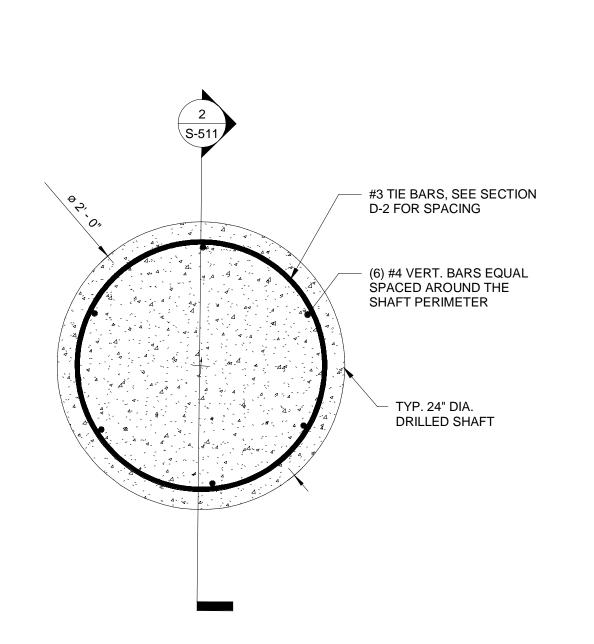
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> BEER GARDEN DECK DETAILS (1/4)

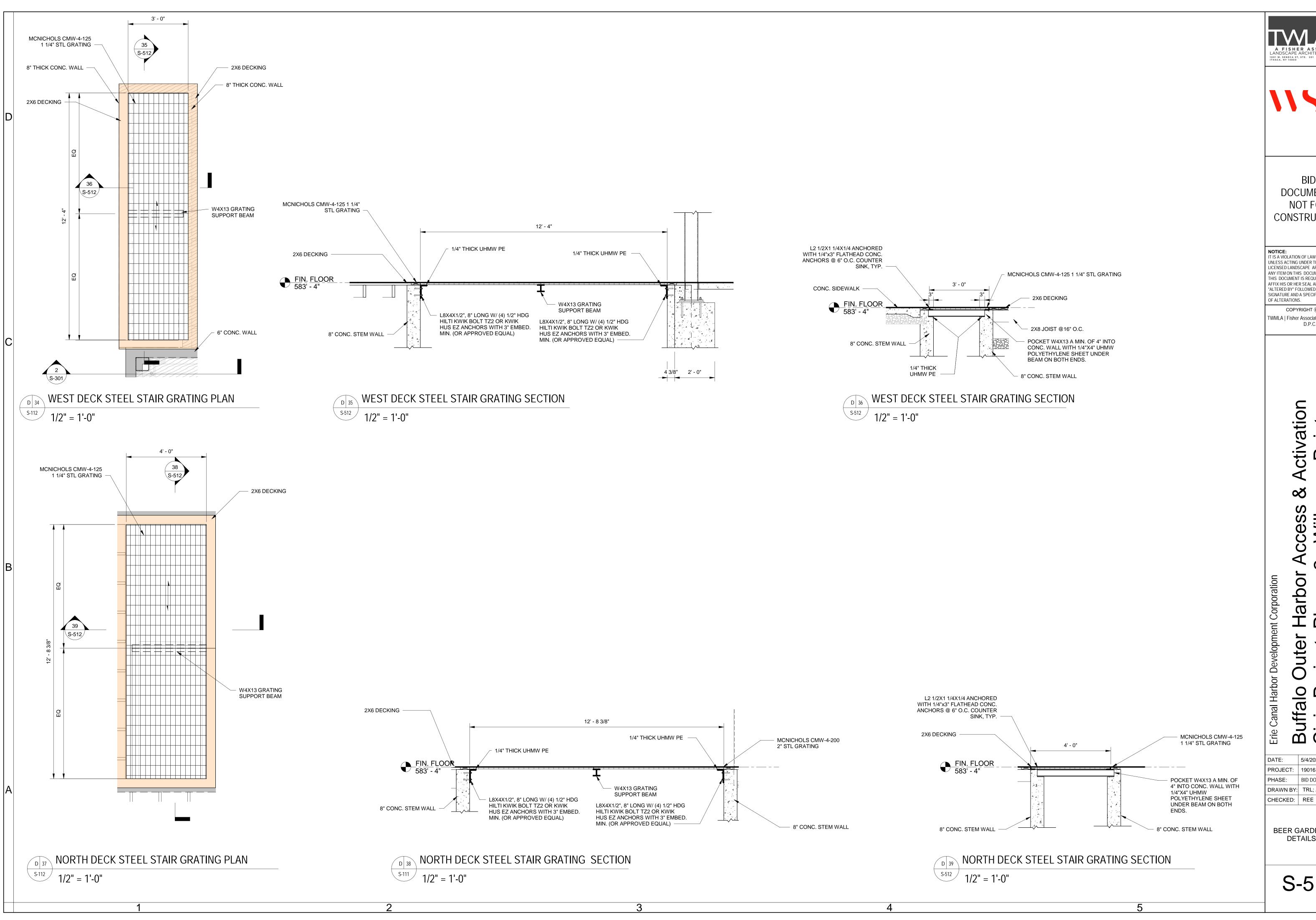
S-511

TOP MOUNTED PROVIDE (4) 5/8" DIA. HOLES FOR 1/2" DIA. HILTI HAS-E-55 ANCHORS WITH HIT-HY 200 OR EQUAL 1/2" THICK PLATE — (2) 2 1/2" X 1/2" PLATES RAILING CONNECTION PLATE DETAIL 1 1/2" = 1'-0"



TYP. DRILLED SHAFT PLAN DETAIL

1 1/2" = 1'-0"





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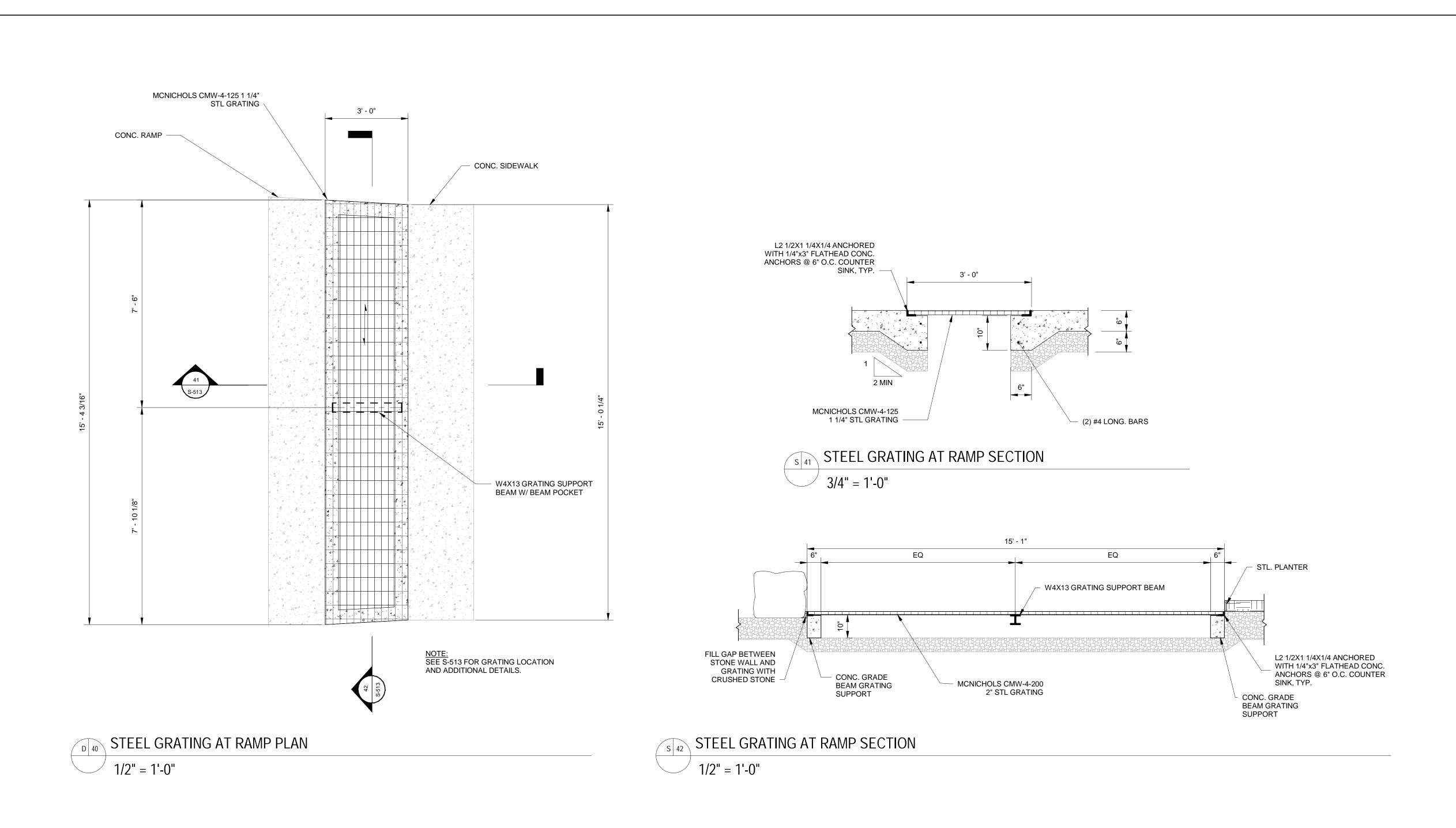
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BEER GARDEN DECK DETAILS (2/4)







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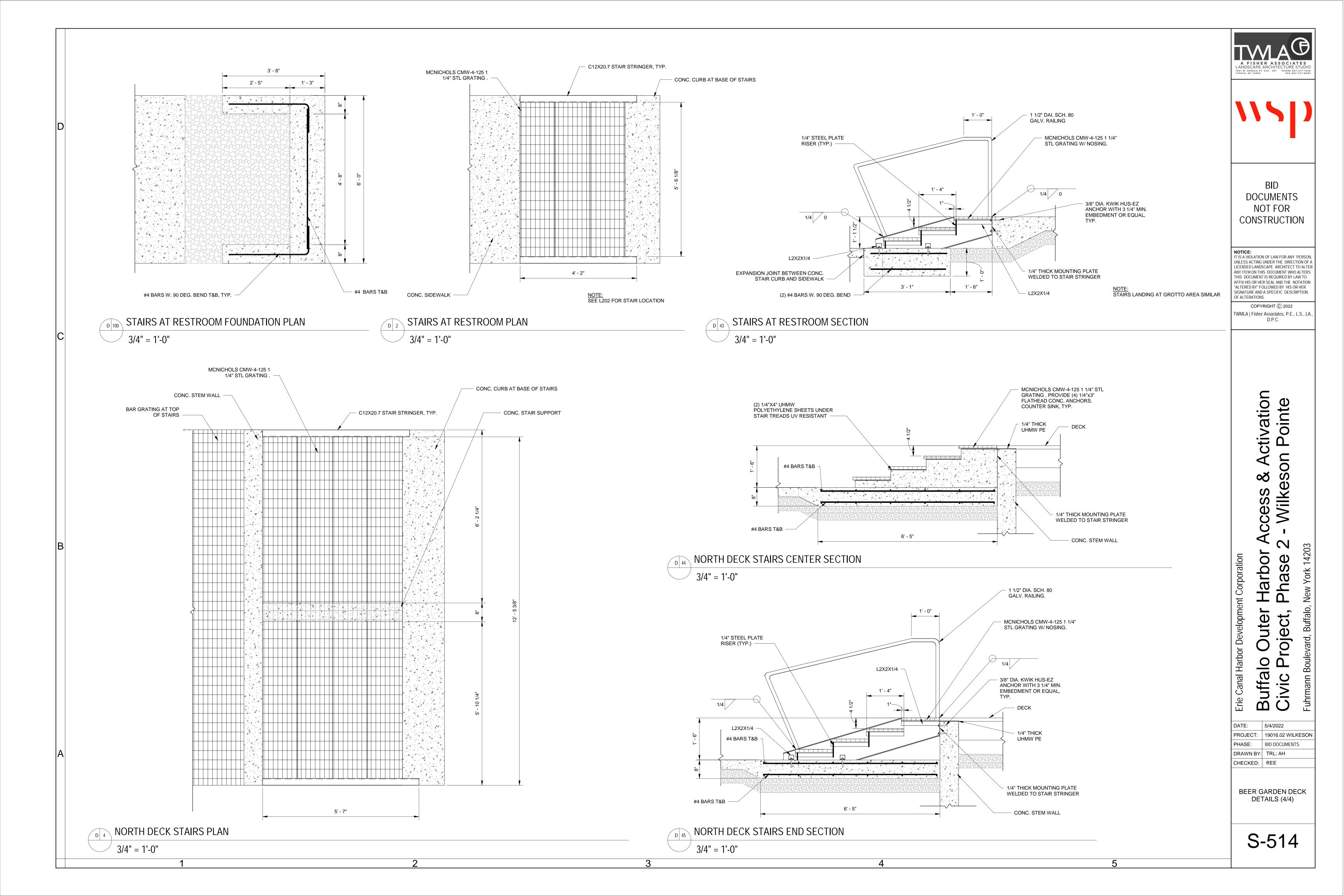
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PHASE:	BID DOCUMENTS
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BEER GARDEN DECK DETAILS (3/4)



COLUMN SCHEDULE						
COLUMN LOCATION	SIZE	COLUMN HEIGHT (H)				
A1	HSS8X8X5/16	15' - 1 5/8"				
A4	HSS8X8X5/16	15' - 6 1/4"				
B5	HSS8X8X5/16	14' - 1 3/8"				
B6	HSS8X8X5/16	14' - 2 3/4"				
B7	HSS8X8X5/16	14' - 5 3/4"				
B8	HSS8X8X5/16	14' - 8 7/8"				
В9	HSS8X8X5/16	14' - 10 5/8"				
C1	HSS8X8X5/16	12' - 7 7/8"				
C2	HSS8X8X5/16	12' - 8 7/8"				
С3	HSS8X8X5/16	12' - 10 3/8"				
C4	HSS8X8X5/16	13' - 0"				
D5	HSS8X8X5/16	14' - 1 3/8"				
D6	HSS8X8X5/16	14' - 2 3/4"				
D7	HSS8X8X5/16	14' - 5 3/4"				
D8	HSS8X8X5/16	14' - 8 7/8"				
D9	HSS8X8X5/16	15' - 1 1/8"				
E1	HSS8X8X5/16	13' - 11 1/4"				
E2	HSS8X8X5/16	14' - 0 1/4"				
E3	HSS8X8X5/16	14' - 1 3/4"				
E4	HSS8X8X5/16	14' - 2 3/4"				
F10	HSS8X8X5/16	14' - 8 7/8"				
F11	HSS8X8X5/16	14' - 5 7/8"				
F12	HSS8X8X5/16	14' - 4 1/4"				
F13	HSS8X8X5/16	14' - 1 1/2"				
G10	HSS8X8X5/16	14' - 8 7/8"				
G11	HSS8X8X5/16	14' - 6"				
G12	HSS8X8X5/16	14' - 4 3/8"				
G13	HSS8X8X5/16	14' - 1 5/8"				

NOTE: SEE S-502 FOR BASE PLATE AND TOP PLATE GEOMETRY.

COLUMN SCHEDULE

1 1/2" = 1'-0"



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COLUMN SCHEDULE





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Erie Canal Harb Buffalo Civic Pr

STANDING SEAM ROOF PANELS

LOW-PROFILE ROOF CLIP

-UNDERLAYMENT

-SUBSTRATE BOARD

-POLYISO INSULATION

-METAL ROOF DECK,

-HAT CHANNEL

(DEFS)

-GYPSUM BOARD SHEATHING

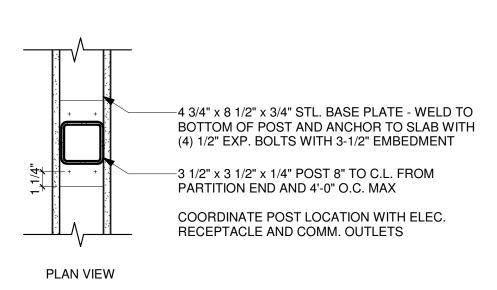
WITH DIRECT APPLIED EXTERIOR FINISH SYSTEM

SEE STRUCTURAL DRAWINGS

DATE: 5/4/2023 PROJECT: 19016.02 PHASE: BID DOCUMENTS DRAWN BY: MD, AR

CHECKED: ---

GENERAL NOTES, WALL & ROOF TYPES



-GYPSUM BOARD

-METAL STUDS @ 16" O.C.

WALL BASE, SEE FINISH

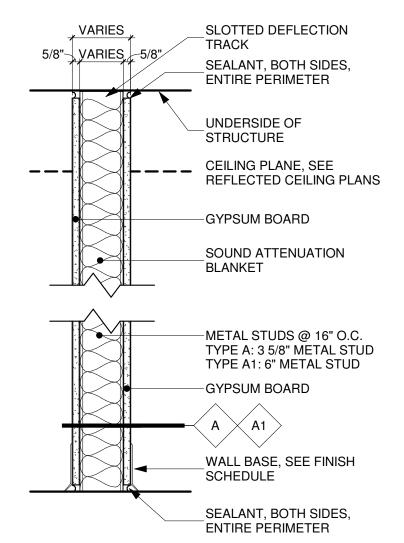
SEALANT, BOTH SIDES,

ENTIRE PERIMETER

-GYPSUM BOARD

SCHEDULE

5/8" 3 5/8" 5/8"



- ALL NEW WALLS TYPE A, UON EXTEND TO UNDERSIDE OF STRUCTURE ACOUSTICAL PERFORMANCE - STC 40 PROVIDE 5/8" CEMENT BOARD IN PLACE OF GYPSUM
- BOARD AT ALL WALL TILE LOCATIONS. • PROVIDE HEIGHT INDICATED WHEN NOTED.

IWS TYPE: B

4 1/2" 5/8"

SEALANT, ENTIRE

UNDERSIDE OF

REFLECTED CEILING PLANS

-METAL STUDS @ 16" O.C.

WALL BASE, SEE FINISH

-1" RIGID INSULATION

-GYPSUM BOARD

SCHEDULE

PERIMETÉR

• PROVIDE 5/8" TILE BACKING PANEL IN PLACE OF

GYPSUM BOARD AT ALL WALL TILE LOCATIONS.

SEALANT, ENTIRE

STRUCTURE

CEILING PLANE, SEE

PERIMETER

IWS TYPE: C

SEALANT, ENTIRE

UNDERSIDE OF

CEILING PLANE, SEE REFLECTED CEILING PLANS

-GYPSUM BOARD

SCHEDULE

-METAL FURRING @ 16"

WALL BASE, SEE FINISH

SEALANT, BOTH SIDES,

ROOF TYPE: RF2

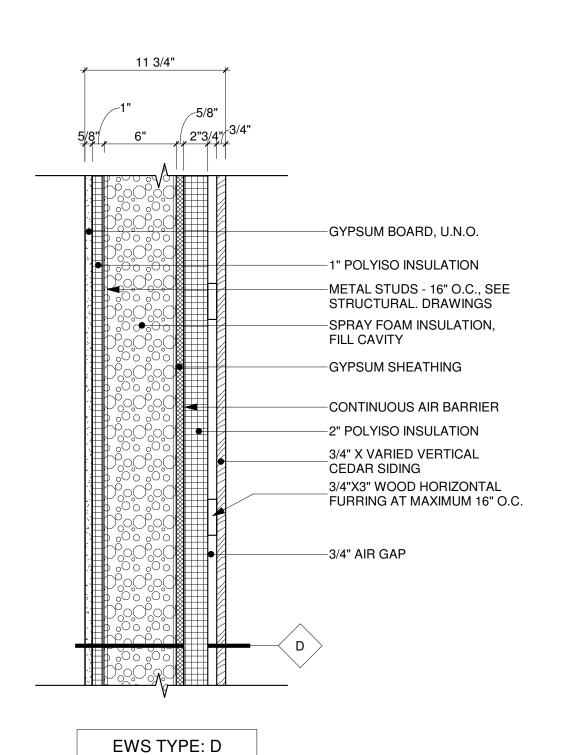
ENTIRE PERIMETER

STRUCTURE

O.C.

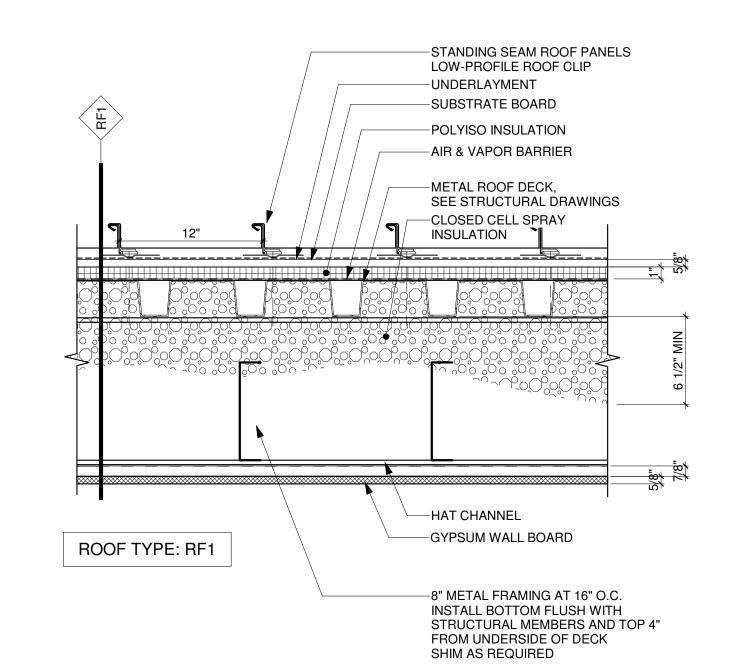
PERIMETER

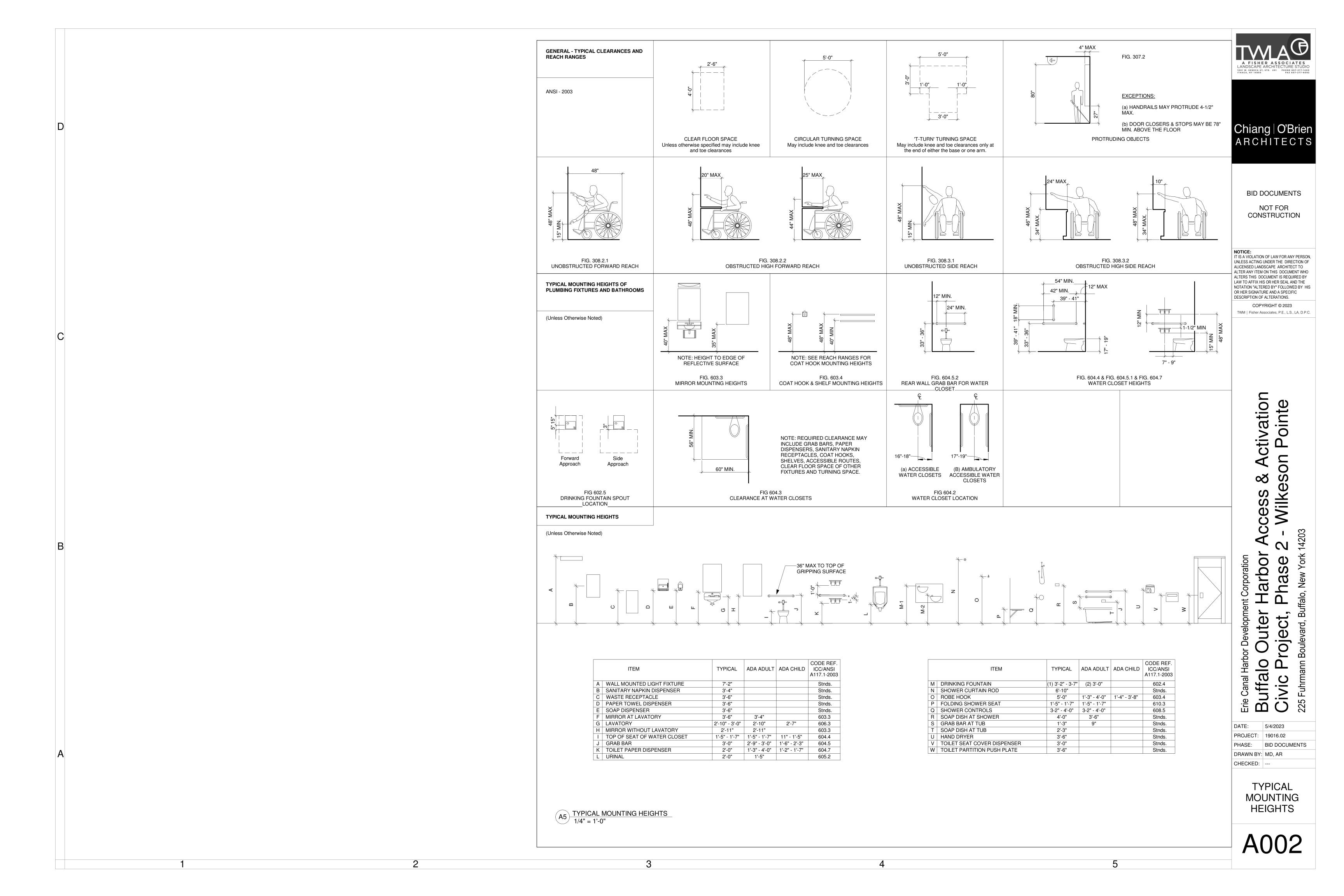
IWS TYPE: A, A1, A2

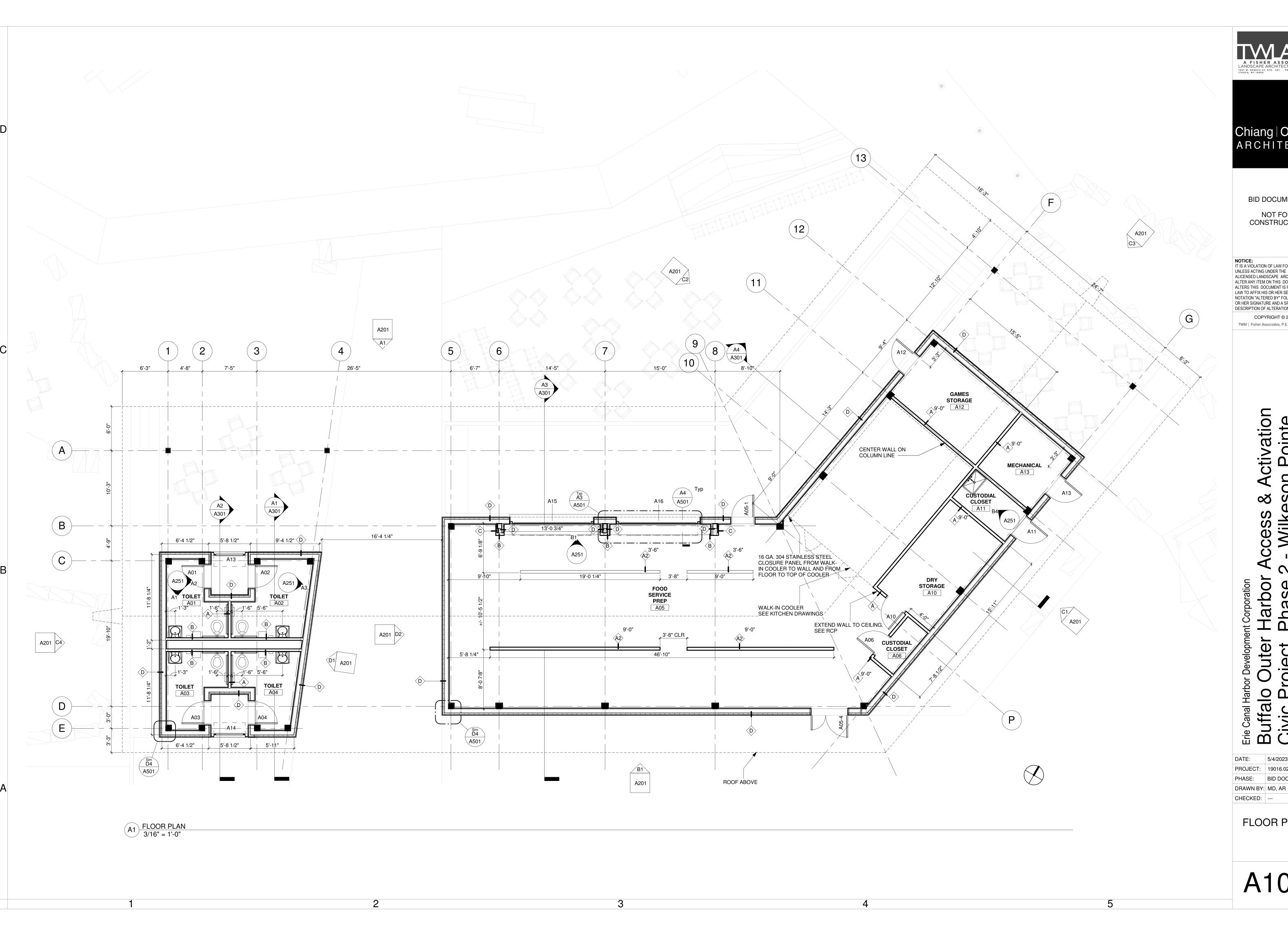


- EXTEND TO UNDERSIDE OF STRUCTURE
 PROVIDE 5/8" CEMENT BOARD IN PLACE OF GYPSUM
- BOARD AT ALL WALL TILE LOCATIONS.

 PROVIDE FIBERGLASS REINFORCED PANEL IN PLACE OF GYPSUM BOARD WHERE INDICATED.









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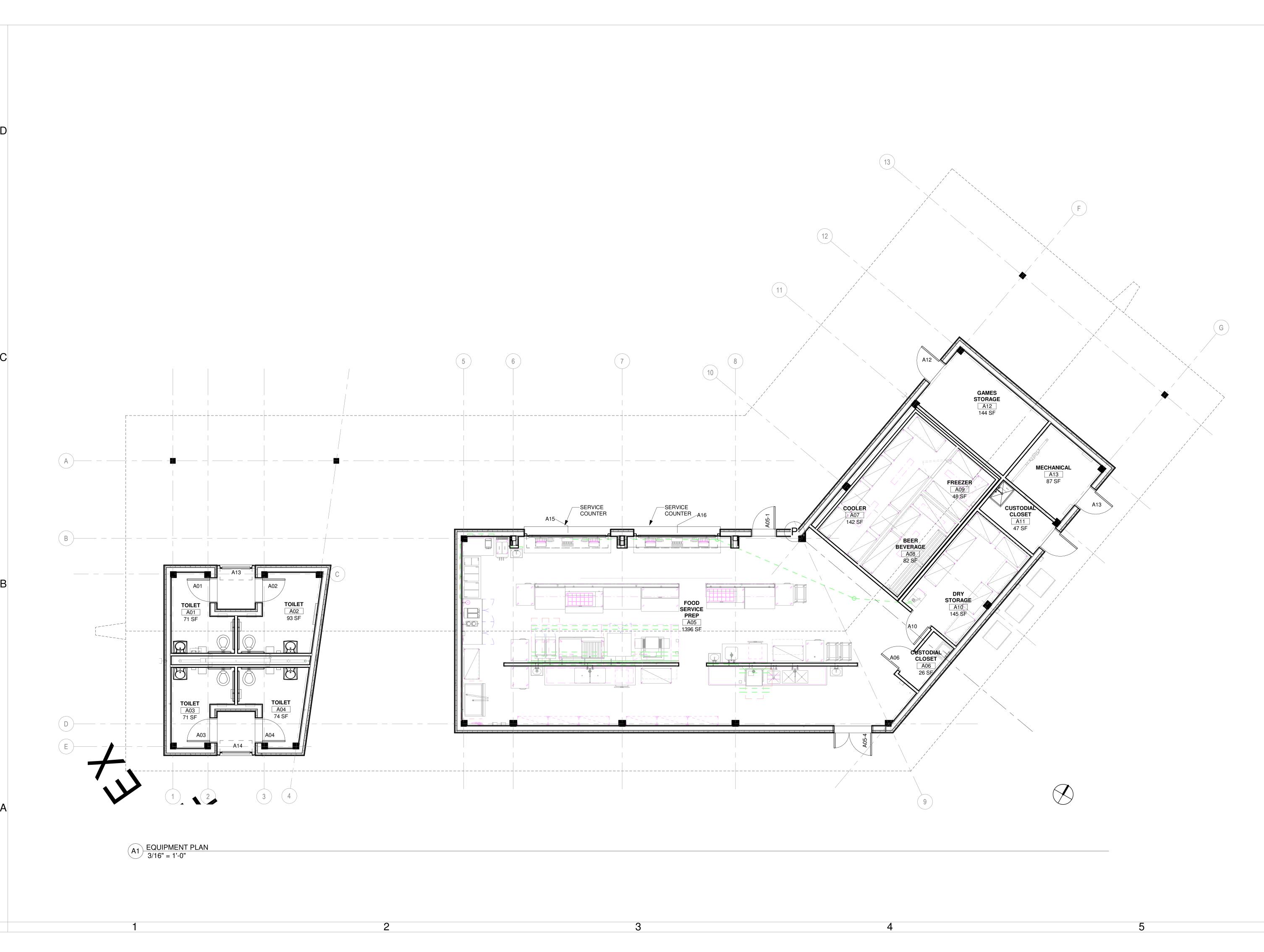
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FLOOR PLAN





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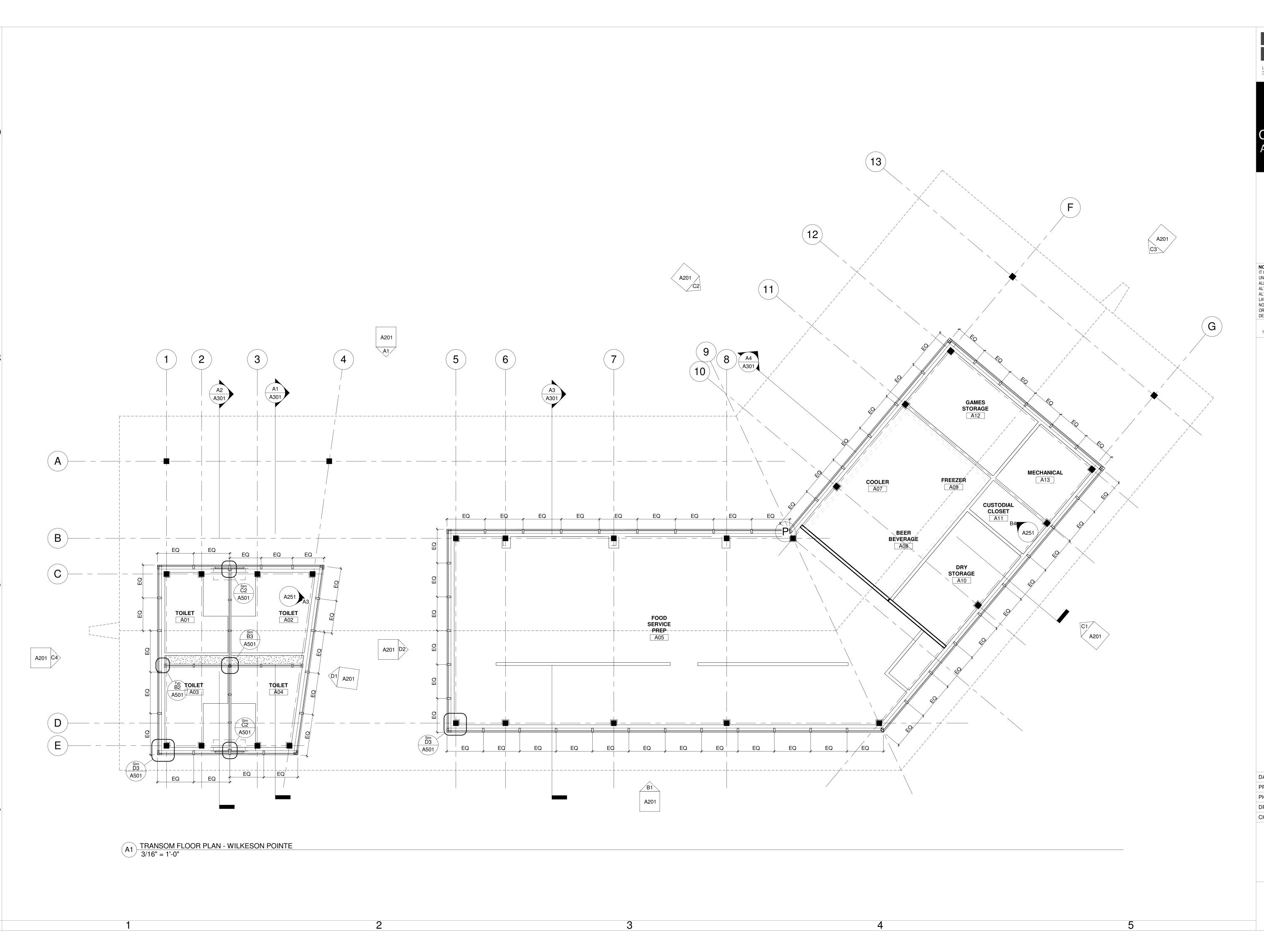
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EQUIPMENT PLAN





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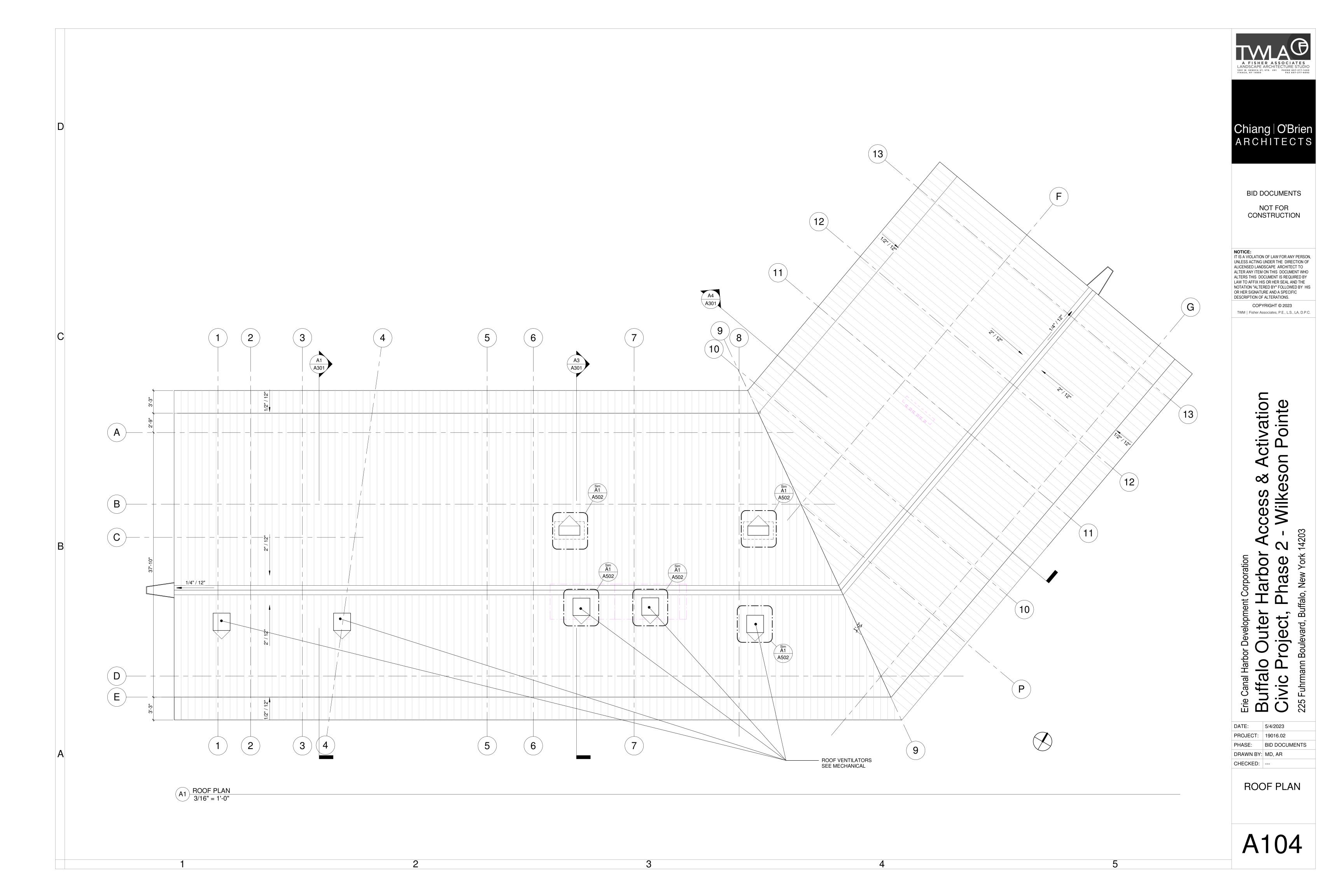
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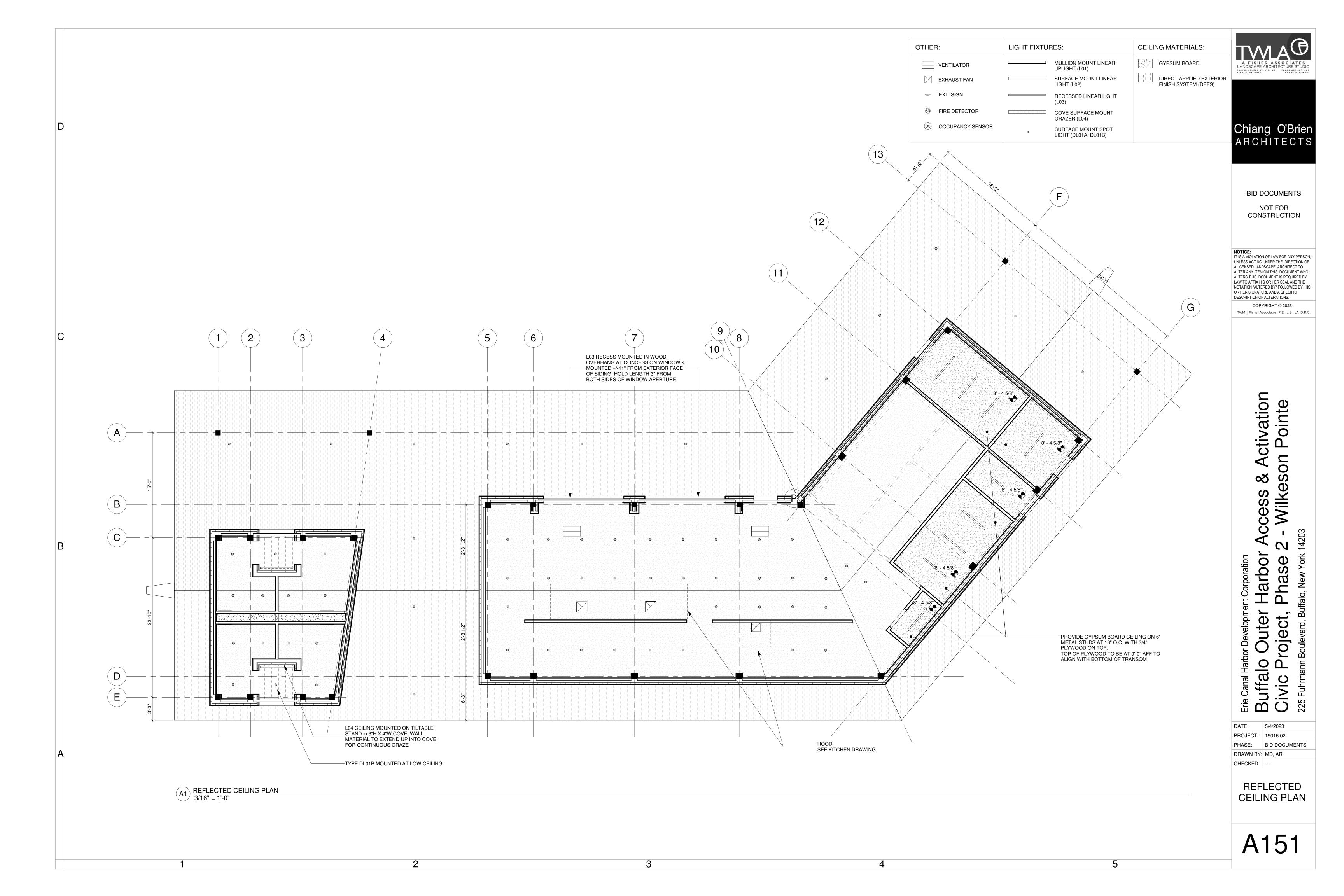
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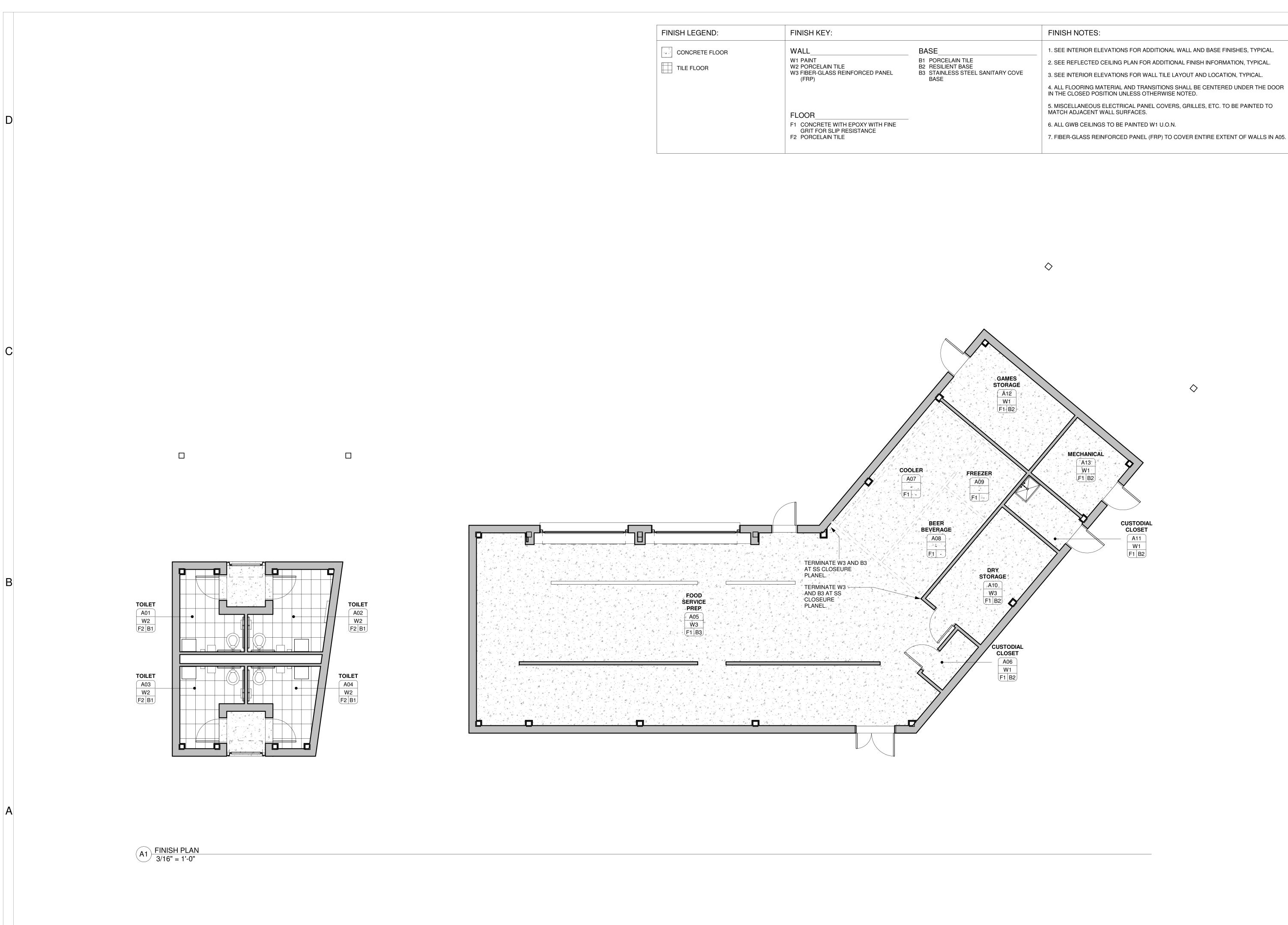
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> TRANSOM PLAN







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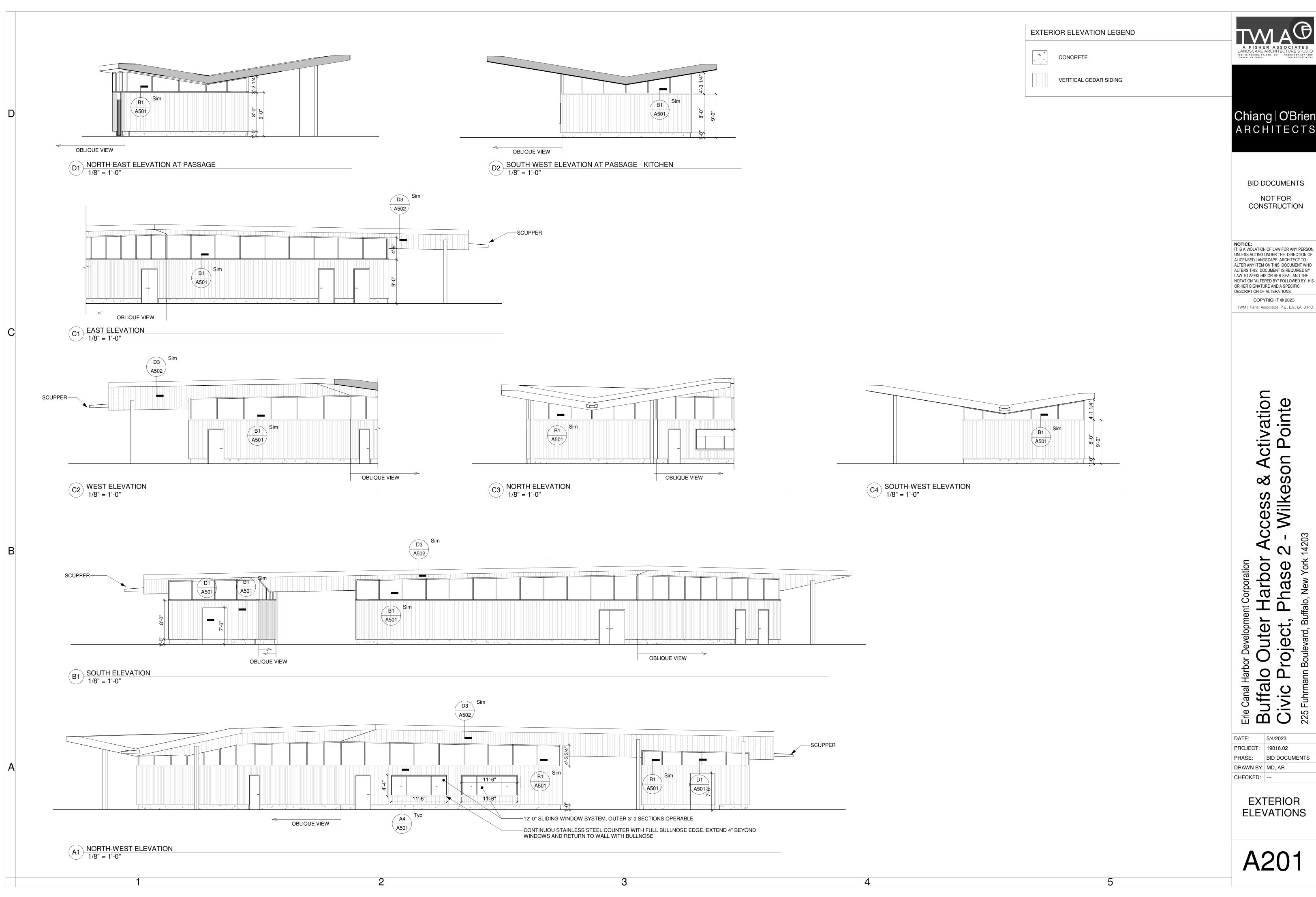
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FINISH PLAN



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> **EXTERIOR ELEVATIONS**



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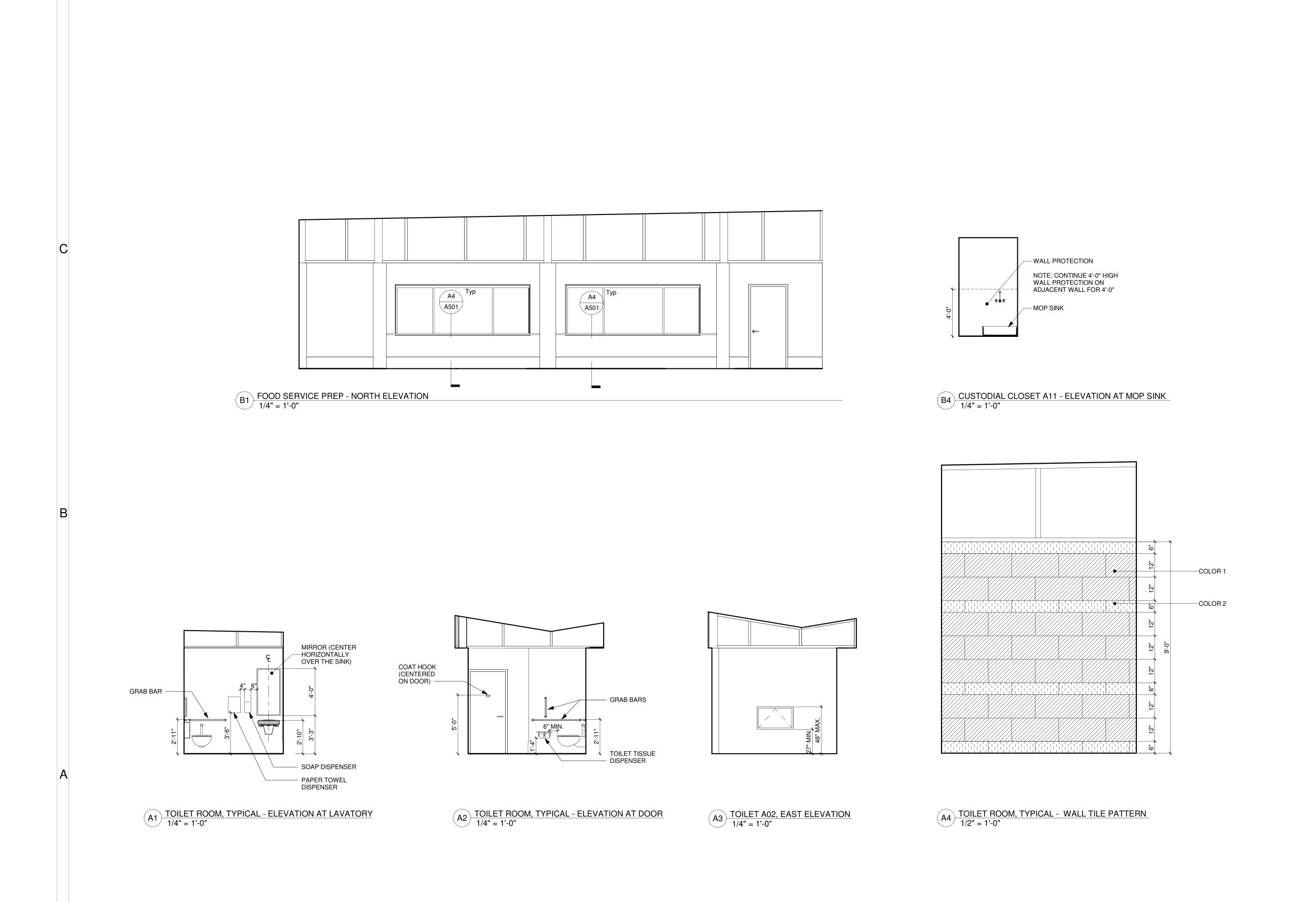
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> INTERIOR **ELEVATIONS**



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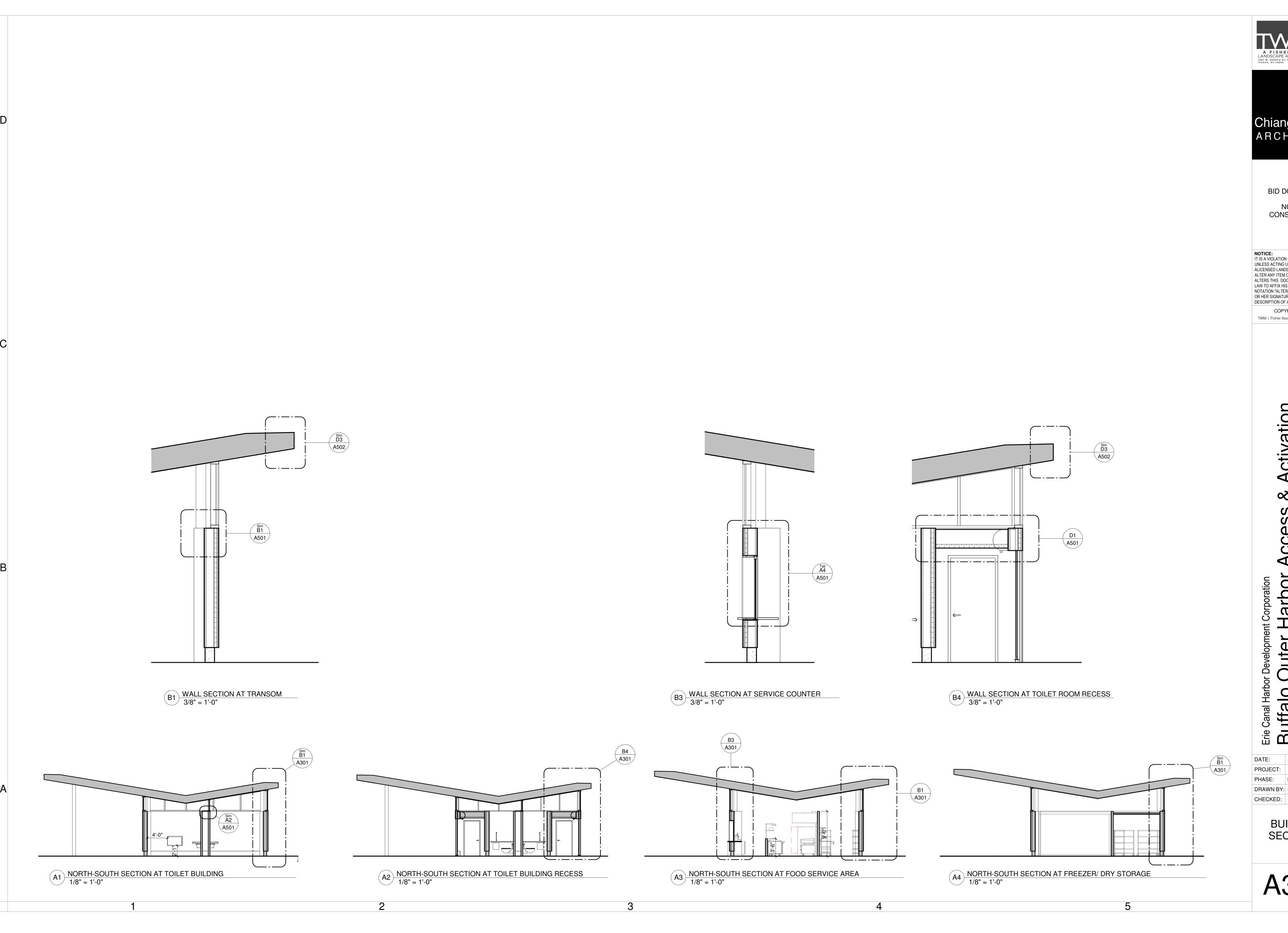
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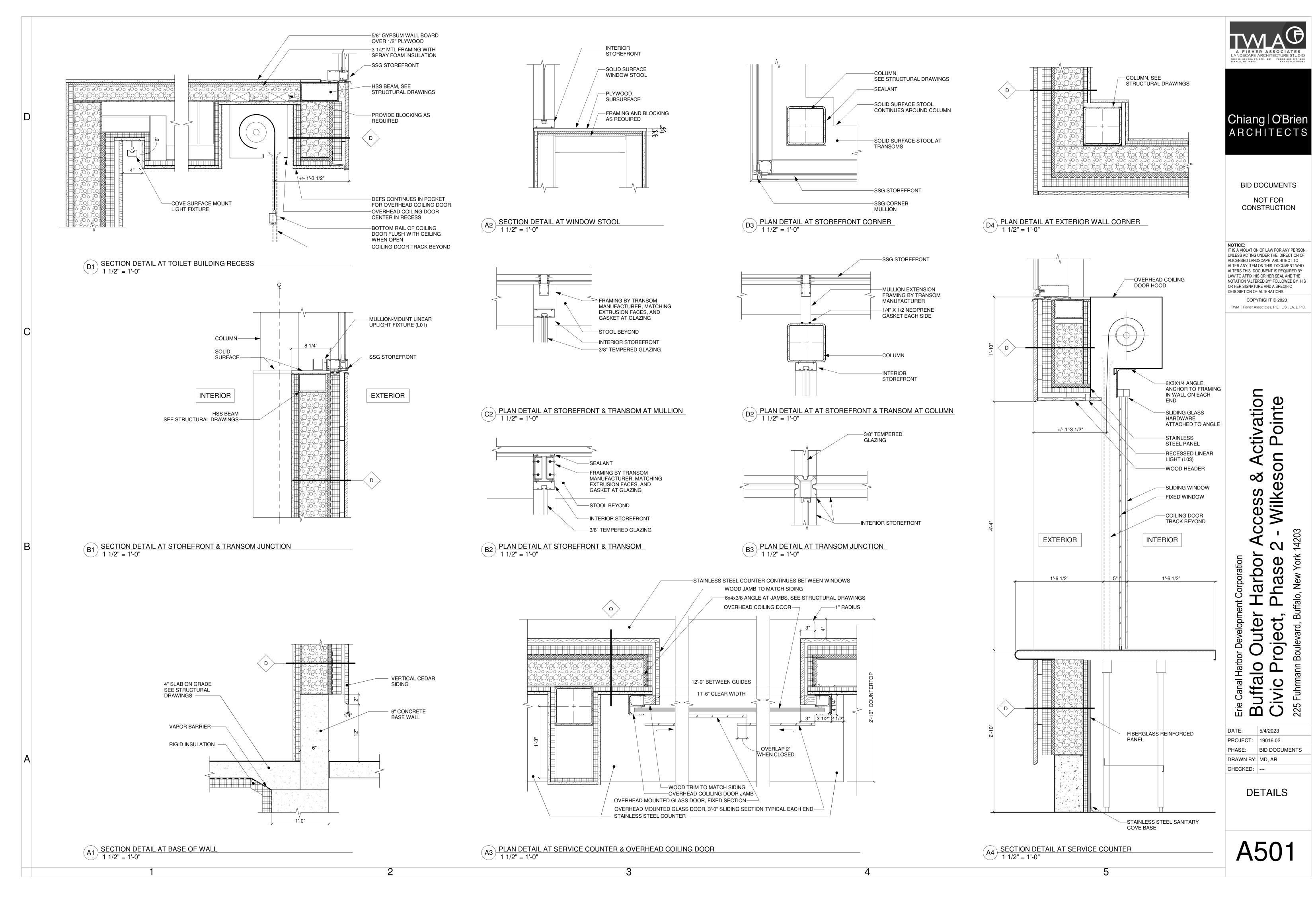
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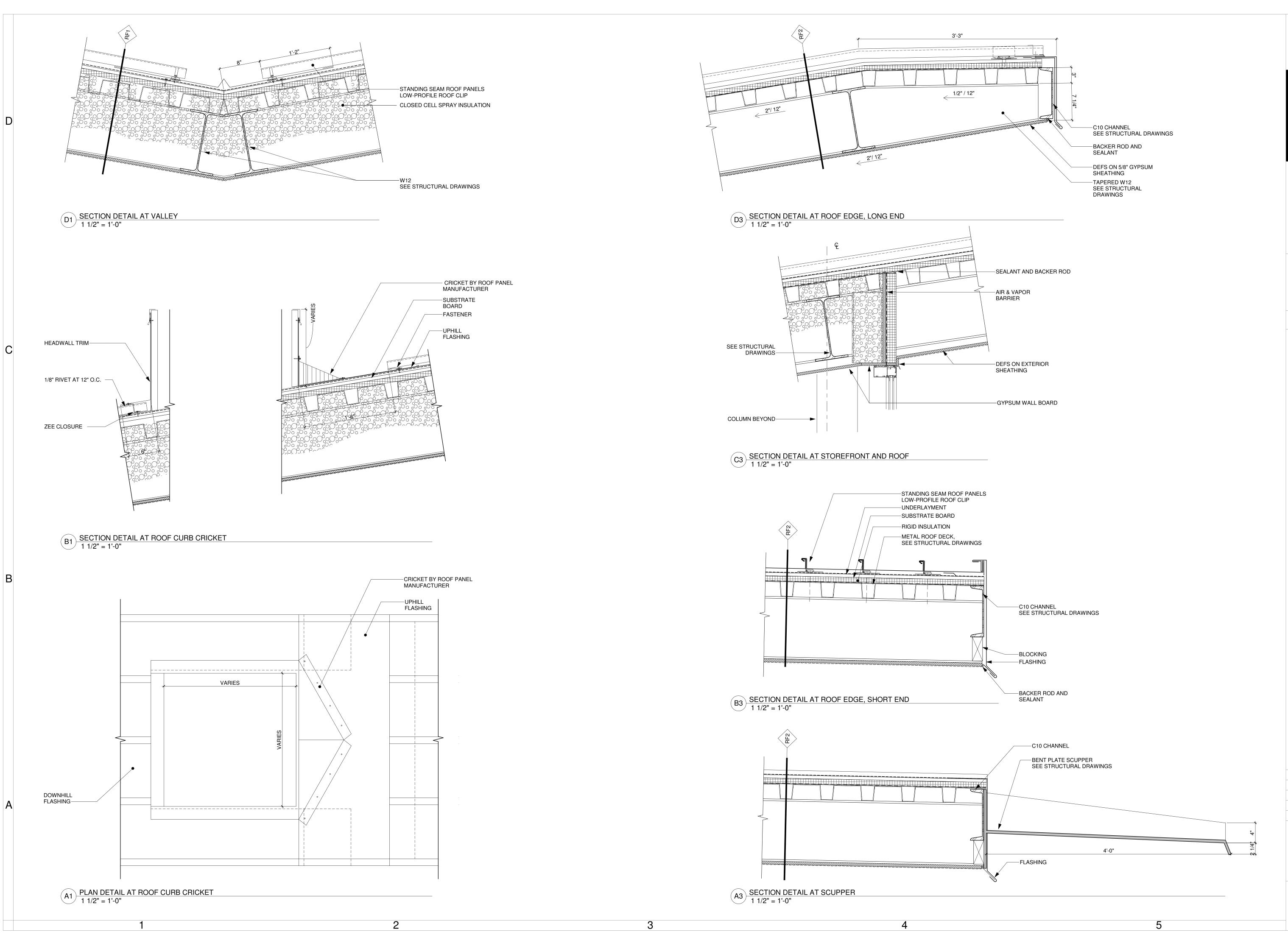
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> BUILDING SECTIONS









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DATE: 5/4/2023

PROJECT: 19016.02

PHASE: BID DOCUMENTS

DRAWN BY: MD, AR

CHECKED: ---

ROOF DETAILS

							SHEET SC	HEDULE - DOO	R AND FRAME			
R	Room		FRAME				DOOR			HARDWARE		DOOR
ER	Number	Room Name	ELEV	MATERIAL	HEAD	JAMB	ELEV	MATERIAL	SIZE	GROUP	REMARKS	NUMBER
	A01	TOUET		1.15.4			D4	1.15.4	01 011 V 71 011			404
	A01	TOILET	F1	HM			D1	HM	3'-0" X 7'-0"			A01
2	A02	TOILET	F1	HM			D1	HM	3'-0" X 7'-0"			A02
}	A03	TOILET	F1	HM			D1	HM	3'-0" X 7'-0"			A03
ļ	A04	TOILET	F1	HM			D1	HM	3'-0" X 7'-0"			A04
1	A05	FOOD SERVICE PREP	F1	НМ			D1	НМ	3'-0" X 7'-0"			A05-1
4	A05	FOOD SERVICE PREP	F1	НМ			D2	НМ	2'-0"&3'-0" x 7'-0"			A05-4
6	A06	CUSTODIAL CLOSET	F1	НМ			D1	НМ	3'-0" X 7'-0"			A06
)	A10	DRY STORAGE	F1	HM			D1	HM	3'-0" X 7'-0"			A10
	A11	CUSTODIAL CLOSET	F1	НМ			D1	НМ	3'-0" X 7'-0"			A11
2	A12	GAMES STORAGE	F1	HM			D1	HM	3'-0" X 7'-0"			A12
3	A13	MECHANICAL	F1	HM			D1	HM	3'-0" X 7'-0"			A13

5'-0" X 7'-6" CLEAR OPENING

5'-0" X 7'-6" CLEAR

4'-4 X 11'-6 CLEAR

4'-4 X 11'-6 CLEAR

OPENING

OPENING

OPENING

SEE D3

SEE D3

SEE SEE ELEV.

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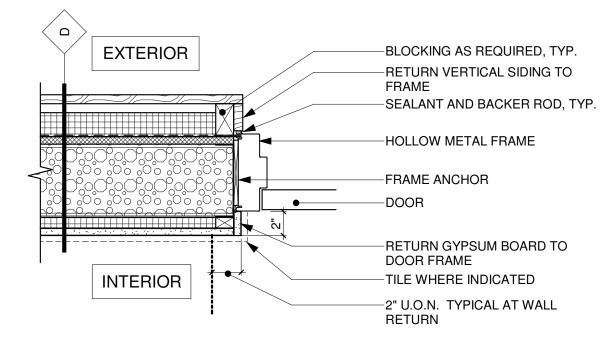
DOOR

SCHEDULE &

DETAILS

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PROJECT: 19016.02



NUMBER Number

A02

A03

A04

A05-1

A05-4

A06

A10

A11

A12

A13

A13

A14

A15

A16

A05 FOOD PREP

A05

FOOD PREP

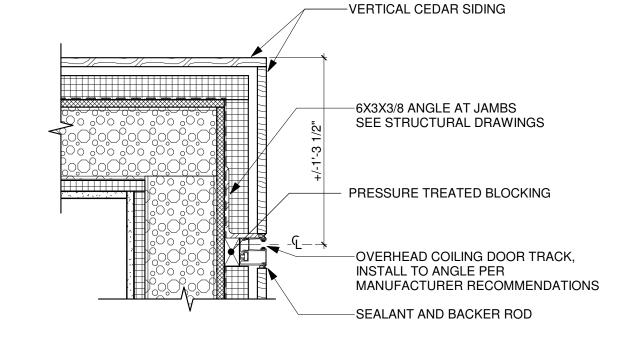
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MANUF.

MANUF.

BY

MANUF.



PER 08 33 23 OVERHEAD COILING DOOR

PER 08 33 23 OVERHEAD COILING DOOR

PER 08 33 23 INSULATED ROLLING DOOR

PER 08 33 23 INSULATED ROLLING DOOR

A13

A14

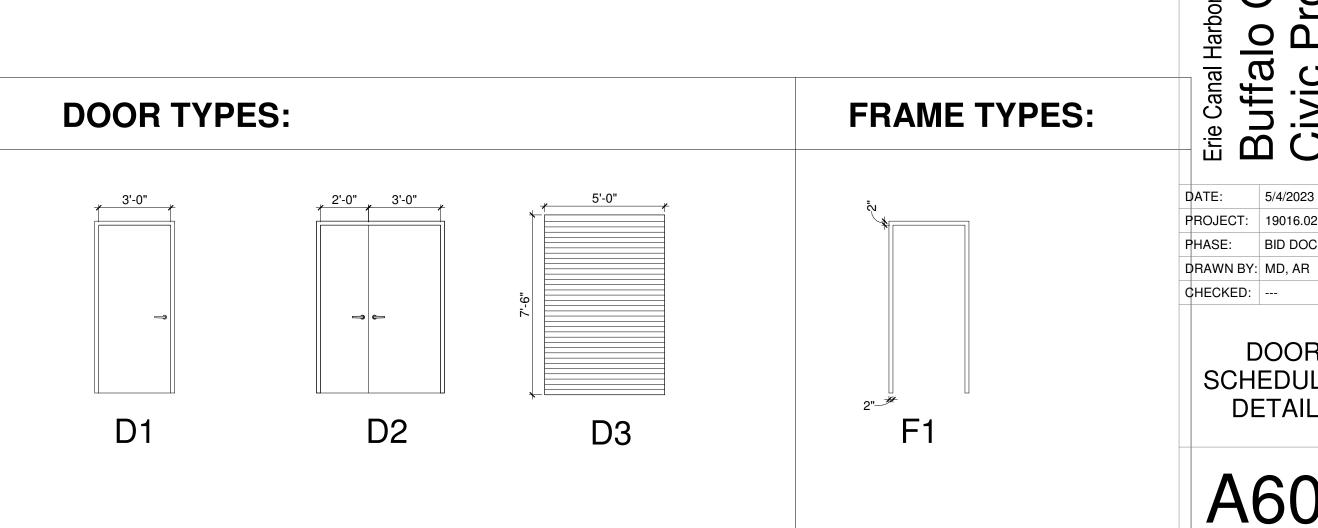
A15

A16

B2 HOLLOW METAL DOOR JAMB
1 1/2" = 1'-0"

EXTERIOR

B4 DOOR JAMB, OVERHEAD COILING DOOR JAMB AT TOILET BUILDING RECESS
1 1/2" = 1'-0"



INTERIOR

6 1/2"

CEDAR SIDING TO MATCH-

HOLLOW METAL FRAME-

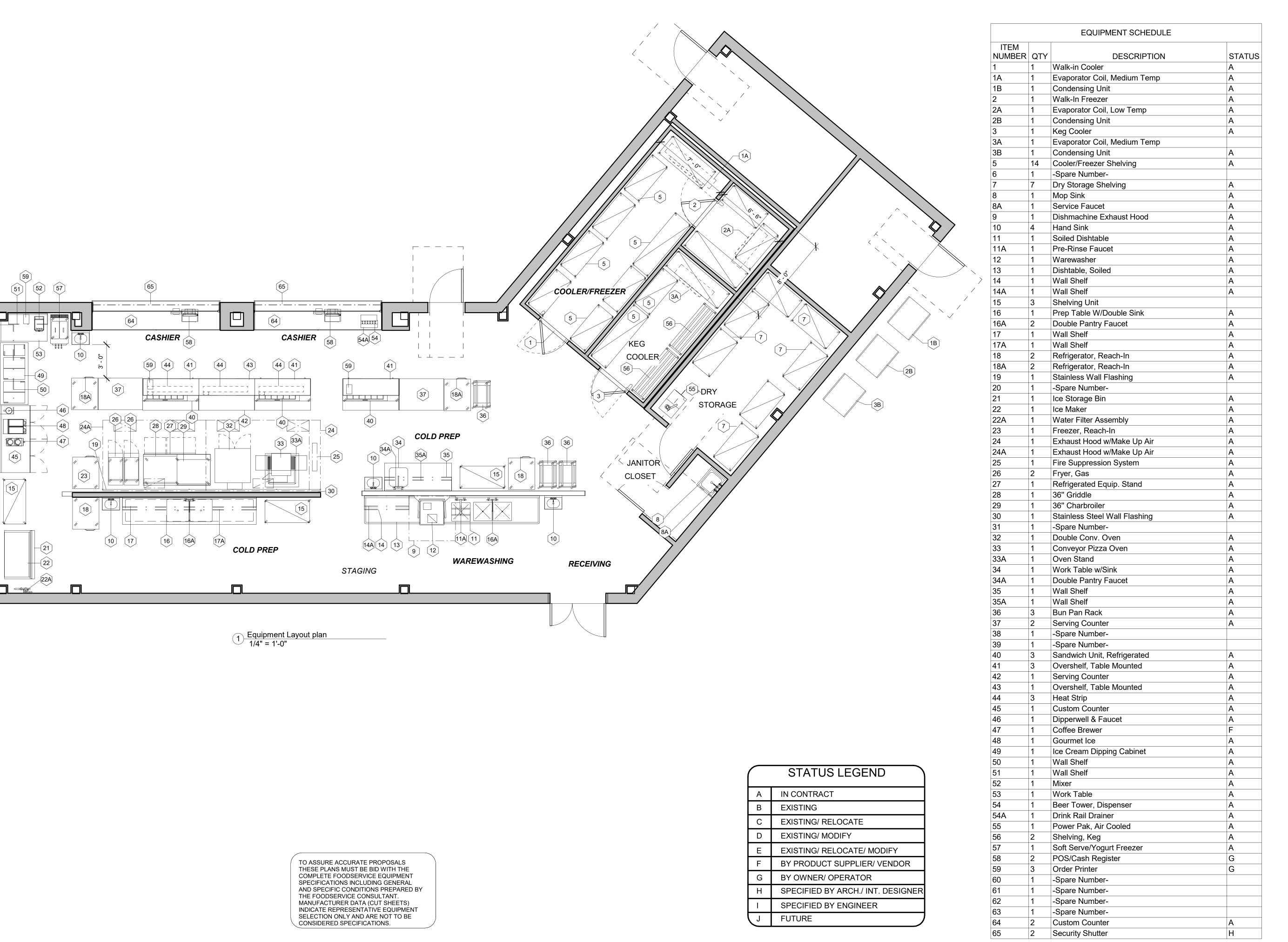
FRAME ANCHOR-

DOOR-

RETURN GYPSUM BOARD TO DOOR FRAME—

SEALANT AND BACKER ROD, TYP.-

B1 HOLLOW METAL DOOR HEAD
1 1/2" = 1'-0"





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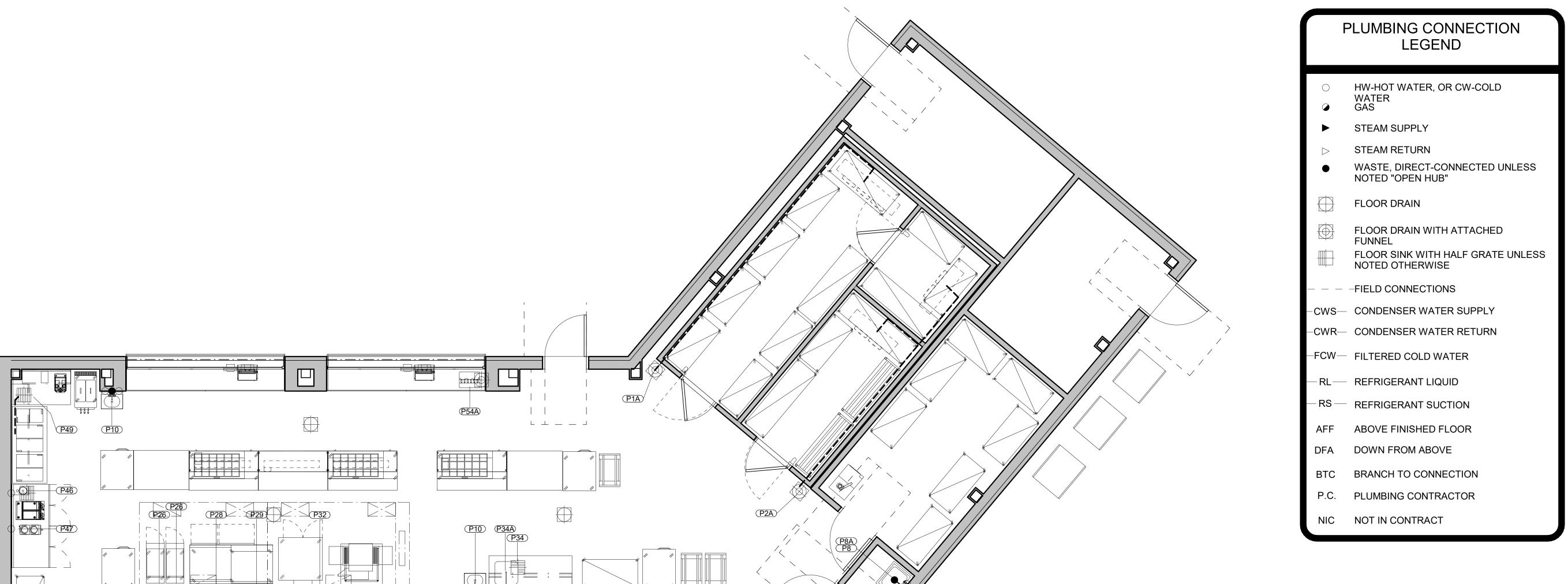
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DATE: 5/4/2023 PROJECT: 19016.02 PHASE: BID DOCUMENTS DRAWN BY: MD, JY, AR

> Equipment & Schedule

CHECKED: ---

KA-1



1 Plumbing plan 1/4" = 1'-0"

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PLUMBING NOTES

ROUGH-INS FOR WATER, WWASTE, FUEL GAS AND STEAM SERVICES SHALL EXTEND 6" (220 MM) BEYOND FINISH WALLS AND ABOVE FINISH FLOORS OR EQUIPMENT PADS - ALL FLOOR PENETRATIONS SHALL BE

WATER PRESSURE IN FOOD, SERVICE AND BEVERAGES AREAS SHOULD BE 50 PSIG. (344,750 N/M) MAXIMUM -WATER PRESSURE AT DISHMACHINES, BOOSTER HEATERS, GLASS AND UTENSIL WASHERS TO BE 25 PSIG

DIVISION 22 SHALL FURNISH AND INSTALL ALL NECESSARY VALVES, TRAPS, TAIL PIECES, LINE STRAINERS, PRESSURE REDUCING VALVES AND VACUUM BREAKERS AND CONNECT ALL WATER, FUEL GAS, STEAM AND

DIVISION 22 TO PROVIDE GAS SERVICES AT EQUIPMENT TO MAINTAIN AN 8" WATER COLUMN. FOOD SERVICE

EQUIPMENT CONTRACTOR TO PROVIDE GAS PRESSURE REGULATORS AS REQUIRED BY CODE AND A.G.A.

DIVISION 22 SHALL INSTALL & CONNECT ALL FAUCETS AND DRAINS FURNISHED WITH FOOD SERVICE AND

DIVISION 22 SHALL FURNISH & INSTALL ALL INDIRECT WASTE LINES FROM FOOD SERVICE AND BEVERAGE EQUIPMENT (EXCEPT EVAPORATOR COILS IN COLD STORAGE ROOMS) TO FLOOR SINKS AND INSULATE

FOOD SERVICE EQUIPMENT CONTRACTOR SHALL FURNISH & INSTALL FIRE SUPPRESSION SYSTEM. FSE

WHERE PERMITTED BY LOCAL CODE, FLOOR SINKS SHALL BE INSTALLED FLUSH WITH FINISH FLOOR WITH

GENERAL PURPOSE AREA DRAINS SHALL BE LOCATED AND SPECIFIED BY THE PLUMBING ENGINEER. THIS IS OF PARTICULAR IMPORTANCE WHEN LOCAL CODES REQUIRE THAT DRAINS ACCEPTING INDIRECT WASTE BE

REQUIRED, IS TO BE SIZED AND LOCATED BY THE PLUMBING ENGINEER. WASTE ROUGH-IN FOR DISCHARGE PIPING FROM A SURFACE MOUNTED GREASE INTERCEPTOR IS TO BE DIMENSIONED BY THE PLUMBING

DIVISION 22 TO RUN WASTES TO GREASE INTERCEPTOR PER LOCAL CODES. GREASE INTERCEPTOR, IF

DIVISION 22 SHALL INSTALL WATER FILTER SYSTEMS PROVIDED BY THE FOOD SERVICE EQUIPMENT CONTRACTOR TO SERVICE ICE MAKERS, COFFEE MAKERS/ URNS, SODA SYSTEMS, STEAMERS, ETC.

FOOD SERVICE EQUIPMENT CONTRACTOR TO PROVIDE, DIVISION 22 TO INSTALL, FLEXIBLE CONNECTORS FOR FOODSERVICE & BEVERAGE EQUIPMENT REQUIRING GAS, WATER & STEAM CONNECTIONS. REFER TO

11. THIS PLUMBING PLAN IS INTENDED TO SHOW DRAINAGE REQUIREMENTS FOR FOODSERVICE EQUIPMENT ONLY. IT IS THE PLUMBING ENGINEER'S RESPONSIBILITY TO CONFIRM DRAIN TYPE, CAPACITY &

12. SEWAGE AND LIQUID WASTES (ROOF DRAINS) ARE TO BE CARRIED TO THE SEWER IN A MANNER THAT PROTECTS THE PREMISES, THE PERSONNEL AND CONTENTS WITHIN THE ESTABLISHMENT FROM CONTAMINATION. THE PLUMBING ENGINEER IS TO DESIGN WASTE PIPING SYSTEMS THAT CONFORM TO LOCAL HEALTH CODE REQUIREMENTS. PARTICULAR ATTENTION NEEDS TO BE GIVEN TO ANY LOCAL REQUIREMENTS PREVENTING WASTE PIPING (EXPOSED OR CONCEALED) FROM BEING ROUTED OVERHEAD IN AREAS USED FOR FOOD STORAGE, PREPARATION, SERVICE, WAREWASHING AND

CONTRACTOR SHALL FURNISH & DIVISION 22 SHALL INSTALL NORMALLY OPEN MECHANICALLY ACTIVATED

FOR INSTALLATION BY DIVISION 22 IN LINE BETWEEN BUILDING SERVICES AND EQUIPMENT.

OR ELECTRICAL SOLENOID GAS SHUT-OFF VALVE ABOVE SUSPENDED CEILING TILE.

PLUMBING PLANS SHOWS ROUGH-IN AND CONNECTION LOCATIONS WITH CAPACITIES - SEE ROUGH-IN

LOCATIONS.

SEALED WATER TIGHT.

BEVERAGE EQUIPMENT.

GRATE COVER AS INDICATED.

TRANSPORTATION.

SET ABOVE THE FINISHED FLOOR.

WASTE LINES TO FOODSERVICE EQUIPMENT.

WASTE LINES FROM ICE BINS, EVAPORATORS AND BAIN MARIES.

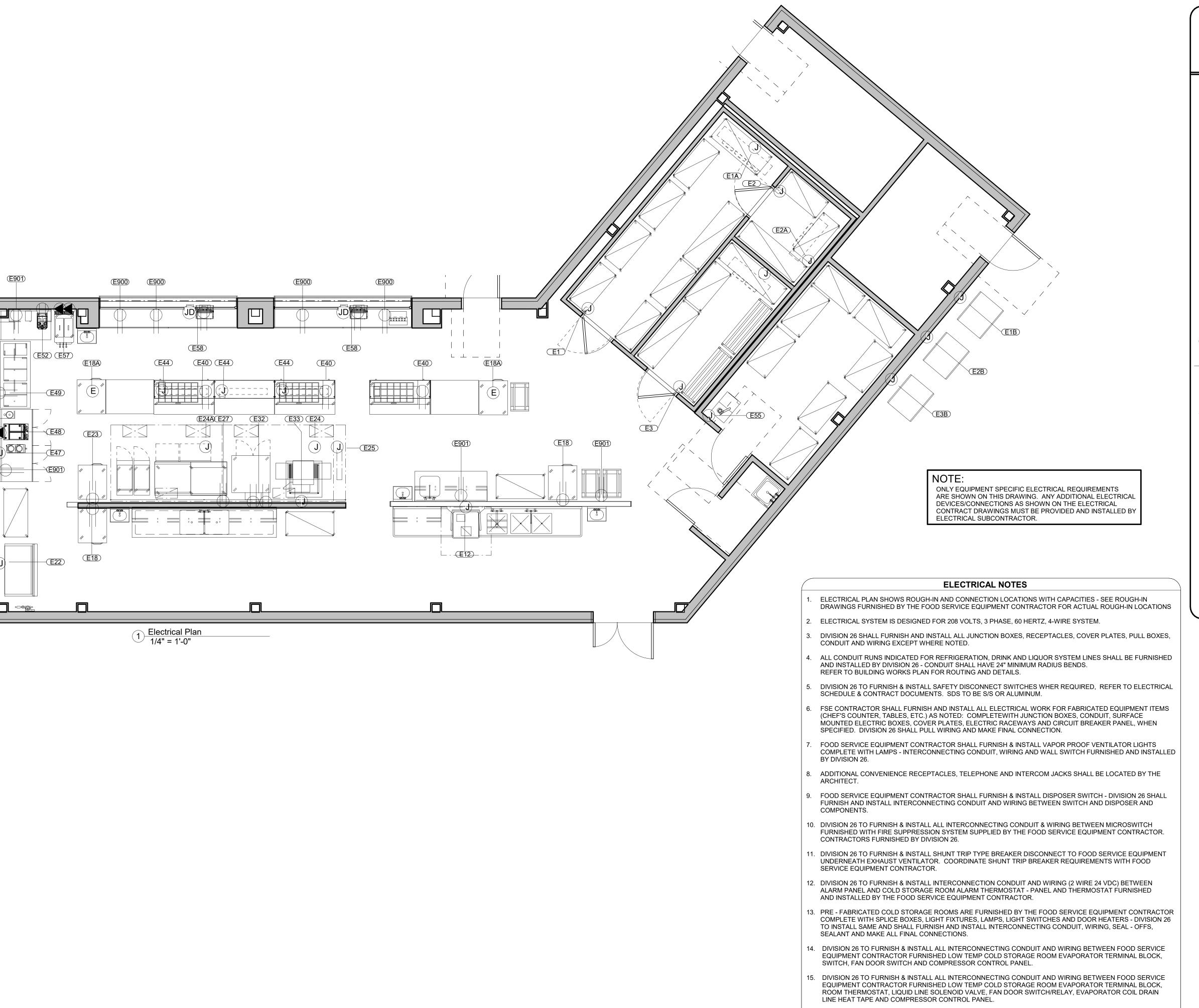
ELEVATION TO SATISFY LOCAL CODE REQUIREMENTS.

PLUMBING SCHEDULE AND CONTRACT DOCUMENTS.

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Plumbing Rough-Ins Plan



ELECTRICAL CONNECTION LEGEND

DUPLEX RECEPT., 20-AMP, 120-VOLT, GROUND TYPE, HORIZONTAL

SIMPLEX RECEPT., 20-AMP, 120-VOLT GROUND TYPE, HORIZONTAL MOUNT

SPECIAL PURPOSE OUTLET, 120-VOLT GROUND TYPE, HORIZONTAL MOUNT

SPECIAL PURPOSE OUTLET, 120/208-VOLT AS INDICATED, GROUND TYPE, HORIZONTAL MOUNT

JUNCTION BOX WITH CONDUIT, STUB AS INDICATED FOR DIRECT CONNECTION

DROP CORD WITH TWIST LOCK

STUB-UP/ DFA MAIN FEED AS INDICATED. TERMINATES AS JUNCTION BOX (SEE ABOVE)

J-BOX DATA

- - - -FIELD WIRING

SAFETY DISCONNECT SWITCH (SDS)

TELEPHONE JACK

⊘ω- SWITCH

SYSTEM)

AFF ABOVE FINISHED FLOOR

DFA DOWN FROM ABOVE

BTC BRANCH TO CONNECTION

C.O. CONVENIENCE OUTLET

E.C. ELECTRICAL CONTRACTOR

NIC NOT IN CONTRACT

DIVISION 26 TO FURNISH & INSTALL EMPTY CONDUIT WITH J-BOXES FOR INSTALLATION OF OWNER SUPPLIED ELECTRONIC CASH CONTROL SYSTEM. DIVISION 26 TO VERIFY INSTALLATION IN ACCORDANCE WITH OWNER'S

REQUIREMENTS AND MANUFACTURER'S INSTRUCTIONS.

Chiang O'Brien ARCHITECTS

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Electrical Rough-Ins Plan

	KEYNOTE LEGEND
Key Value	Keynote Text
A	GENERAL CONTRACTOR TO FURNISH AND INSTALL 3"X3"X1/4" (75X75X6) Z-BAR TO UNDERSIDE OF STRUCTURAL SLAB ABOVE - COORDINATE INSTALLATION WITH THE FOOD SERVICE EQUIPMENT CONTRACTOR.
В	GENERAL CONTRACTOR TO PROVIDE 6 " DEEP DEPRESSION FROM FINISHED FLOOR TO RECEIVE WALK-IN BOX FLOOR INSULATION AND FINISHED FLOOR. SEE WALK-IN BOX DETAILS.
E	ARCHITECT TO SPECIFY 4"X4"X48" HIGH #16 GA. STAINLESS STEEL CORNER GUARDS TO GENERAL CONTRACTOR FOR INSTALLATION.
F	GENERAL CONTRACTOR TO INSURE ALL WALLS ARE PROPERLY REINFORCED TO SUPPORT ALL WALL MOUNTED EQUIPMENT.
J	RUN CONDUIT BELOW SLAB. DIVISION 16 TO PROVIDE EMPTY 6" DIA. METAL CONDUIT FOR RUN OF BEVERAGE LINES FROM BEER SYSTEM TO BEER DISPENSING LOCATIONS. ALL BENDS TO BE EASY SWEEP (NO 90 DEGREE BENDS).
К	FOOD SERVICE EQUIPMENT CONTRACTOR TO COORDINATE LOCATIONS OF ALL CEILING HUNG EQUIPMENT (VENTILATORS, UTENSIL RACKS, ETC.) WITH GENERAL CONTRACTOR TO INSURE NO INTERFERENCE BETWEEN PIPING, CONDUIT, DUCTWORK, LIGHTS, ETC. AND SECURING OF FOOD SERVICE EQUIPMENT TO BUILDING SLAB/STRUCTURE OCCURS.
М	ARCHITECT TO SPECIFY 4" WIDE "ACROVYN" WALL PROTECTION BAR MOUNTED @ 34" O.C. ABOVE FINISHED FLOOR. COLOR AND PATTERN TO BE SELECTED BY ARCHITECT.

1/4" = 1'-0"

					MECHANI	CAL CONNE	CTION SCHE	DULE					
EXHAUST EXHAUST MA						MAKE	MAKE UP AIR						
ITEM NUMBER	QTY	DESCRIPTION	VENT WIDTH	VENT DEPTH	VOLUME	STATIC PRESS	RI HT +AFF	VENT WIDTH	VENT DEPTH	VOLUME	STATIC PRESS	HEIGHT +AFF	REMARKS
9	1	Dishmachine Exhaust Hood	0' - 10"	0' - 9"	800 CFM	-0.15 in-wg	8' - 6"						-
24	1	Exhaust Hood w/Make Up Air	1' - 10"	0' - 10"	2312 CFM	-0.73 in-wg	9' - 0"	2' - 0"	1' - 0"	1900 CFM	0.18 in-wg	9' - 0"	
24A	1	Exhaust Hood w/Make Up Air	1' - 10"	0' - 10"	2312 CFM	-0.73 in-wg	9' - 0"	2' - 0"	1' - 0"	1700 CFM	0.15 in-wg	9' - 0"	

SPECIFIED AS:

"PROVIDE 6 INCH INSIDE DIAMETER, ALUMINUM OR ZINC/GALVANIZED

COATED STEEL VACUUM PIPING AND FITTINGS AS MANUFACTURED BY

GENERAL CONTRACTOR TO VERIFY DIAMETER OF CONDUIT REQUIRED. OFTEN, BEVERAGE SYSTEMS "BY VENDOR" ARE SUBSTITUTED FOR THOSE

SYSTEMS SPECIFIED FOR COST REDUCTION PURPOSES. ALTERNATE SYSTEMS MAY BE ACCOMMODATED IN CONDUIT OF SMALLER DIAMETER

AMERICAN VACUUM CO., NILES, IL (866) 394-4866 OR EQUAL"

RESULTING IN EASIER INSTALLATION.



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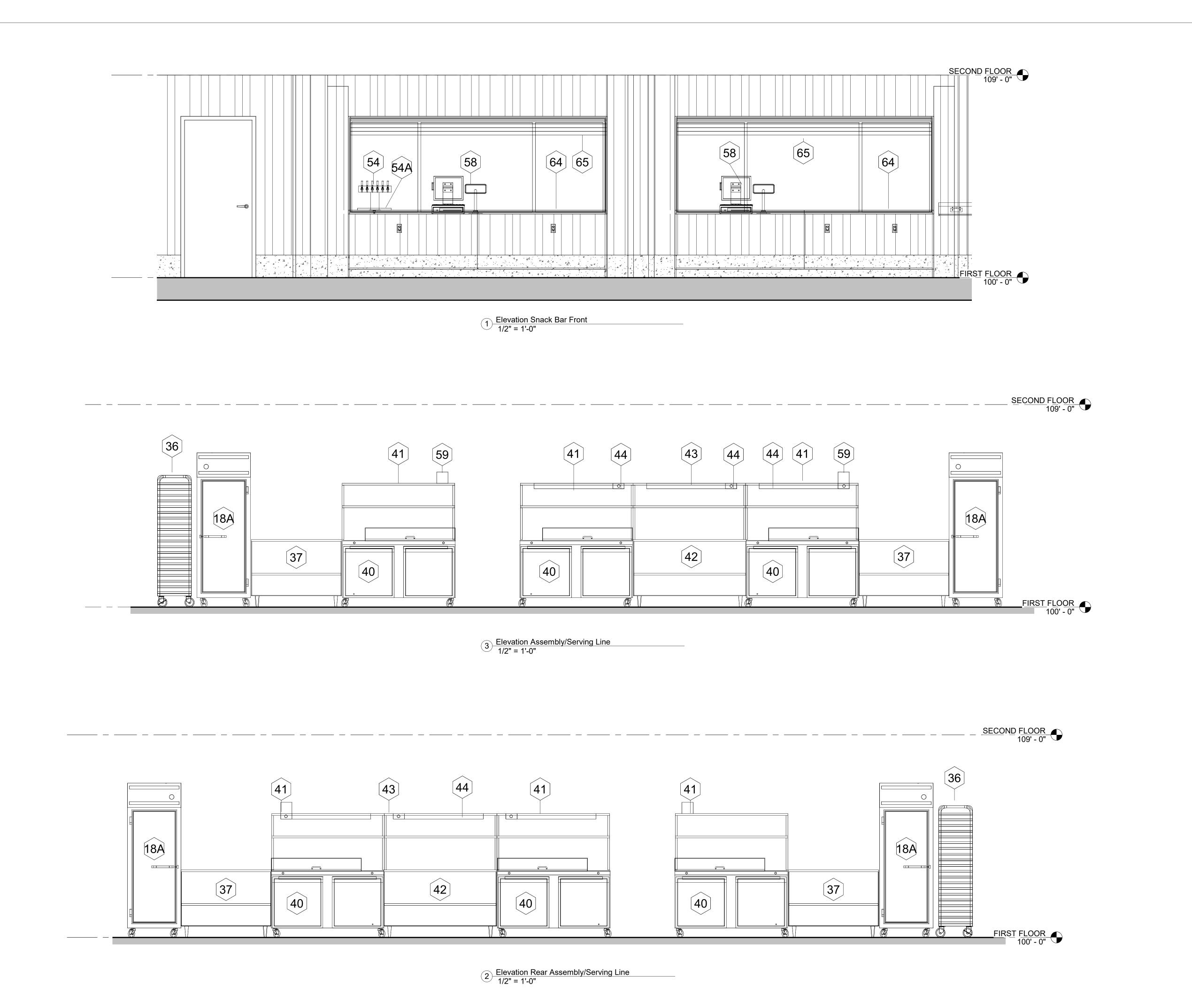
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Building Works

KA-4

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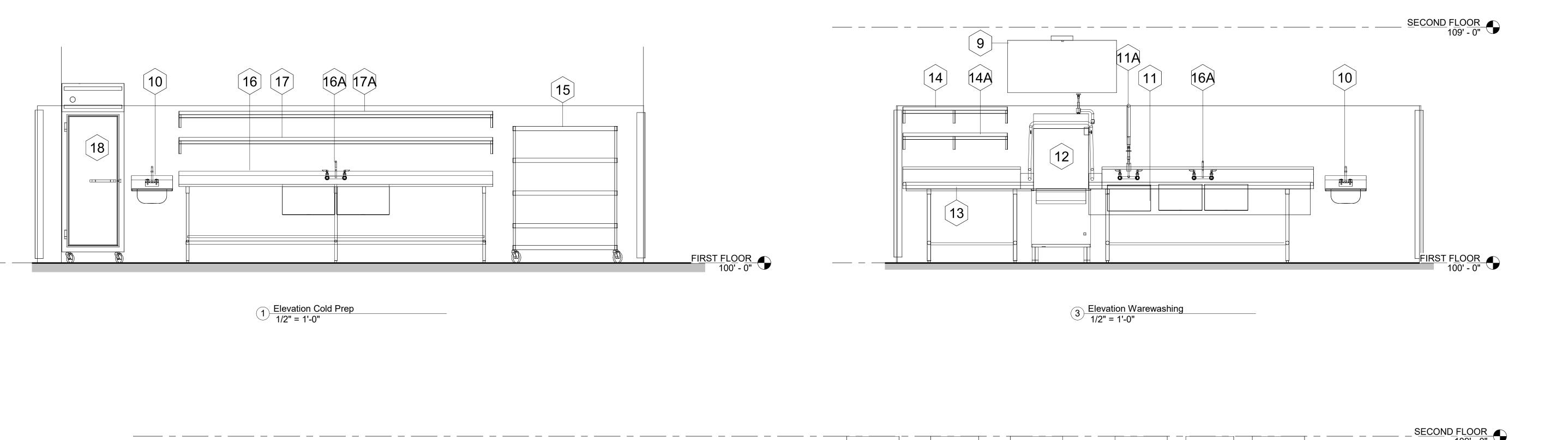
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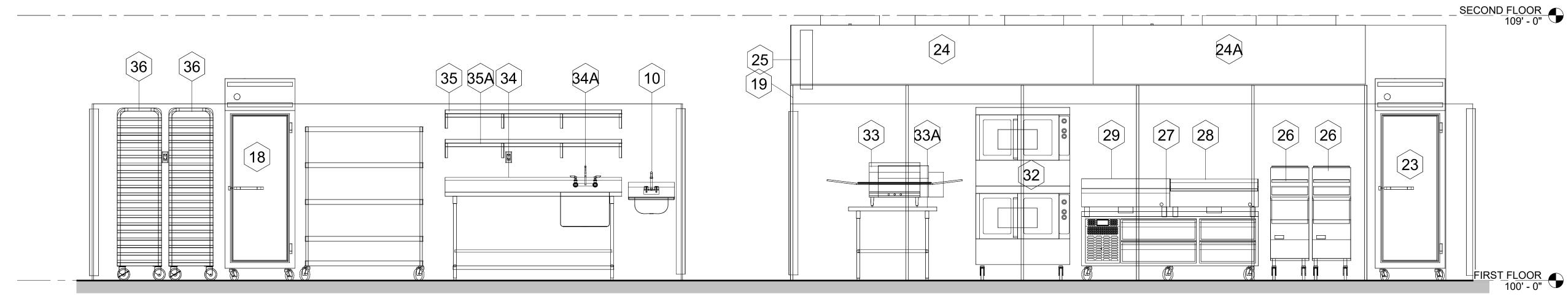
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Harbor
Phase 2

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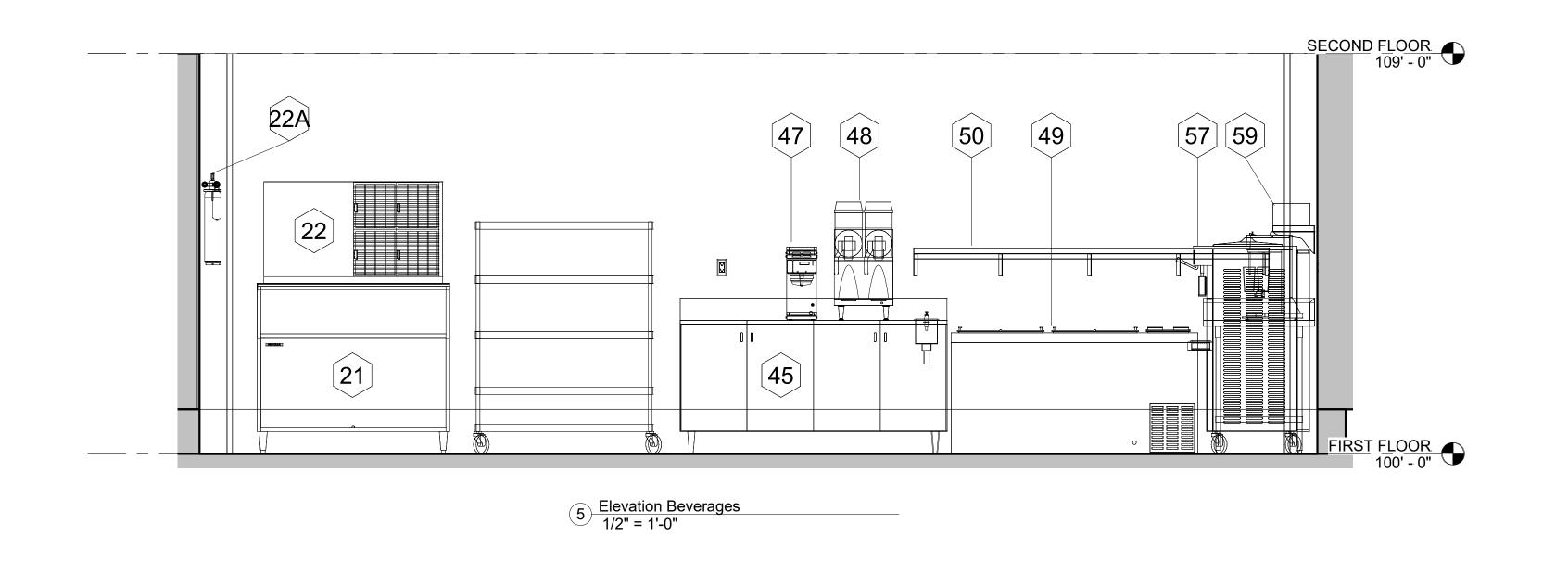
> Elevations & **Details**

KA-5





2 Elevation Cooking/Prep 1/2" = 1'-0"





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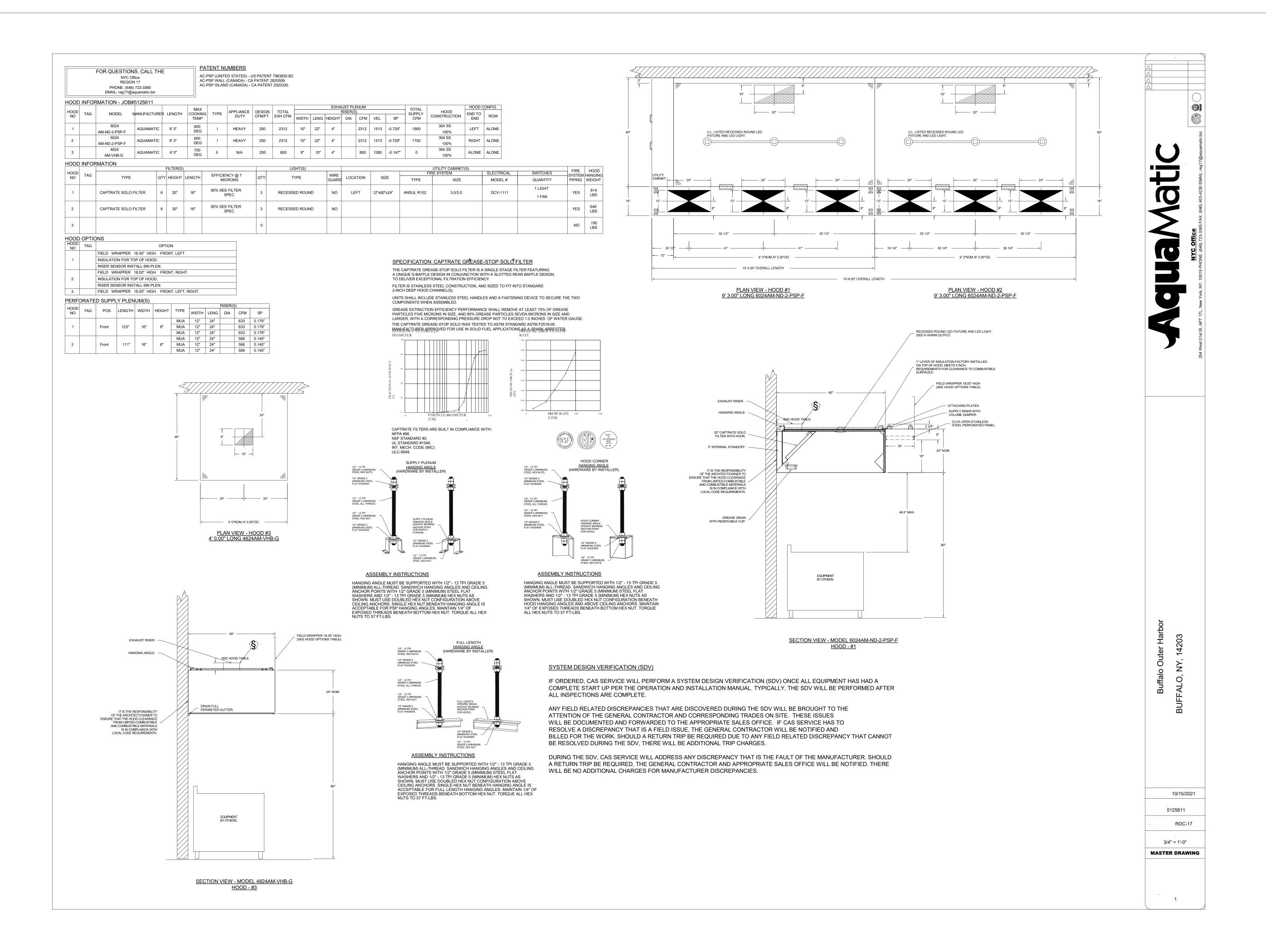
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Elevations & Details

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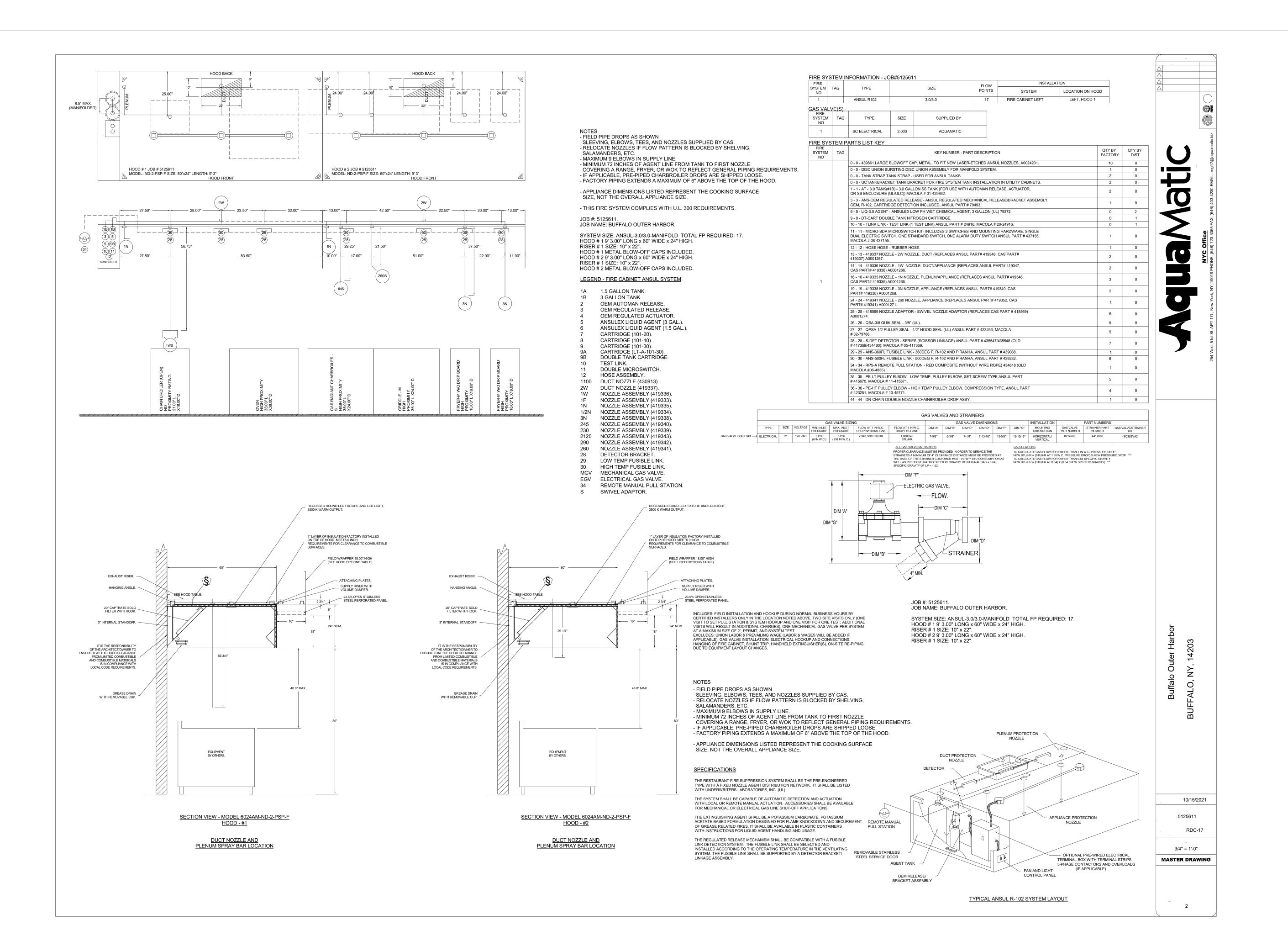
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Exhaust Hood Shop Dwgs







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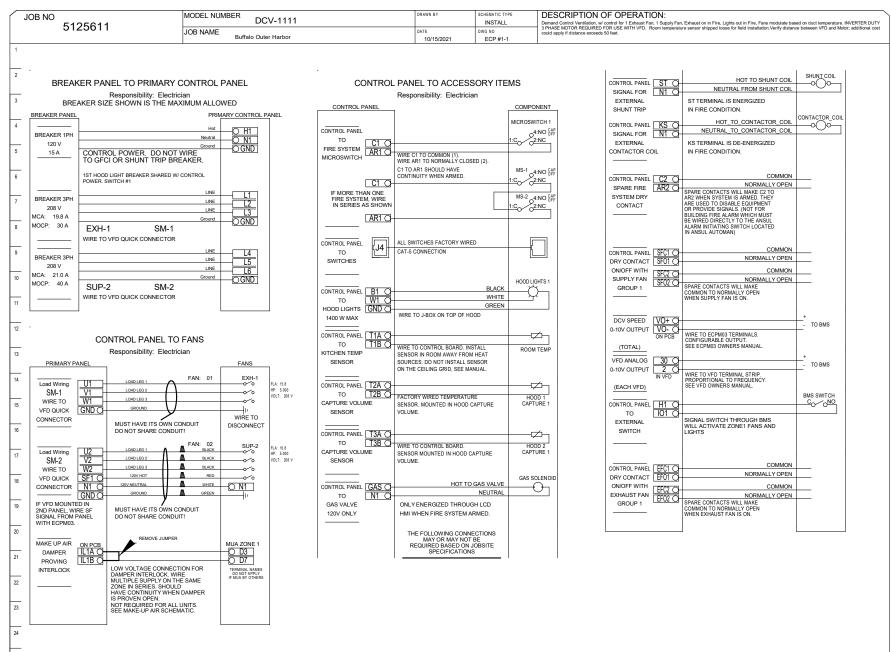
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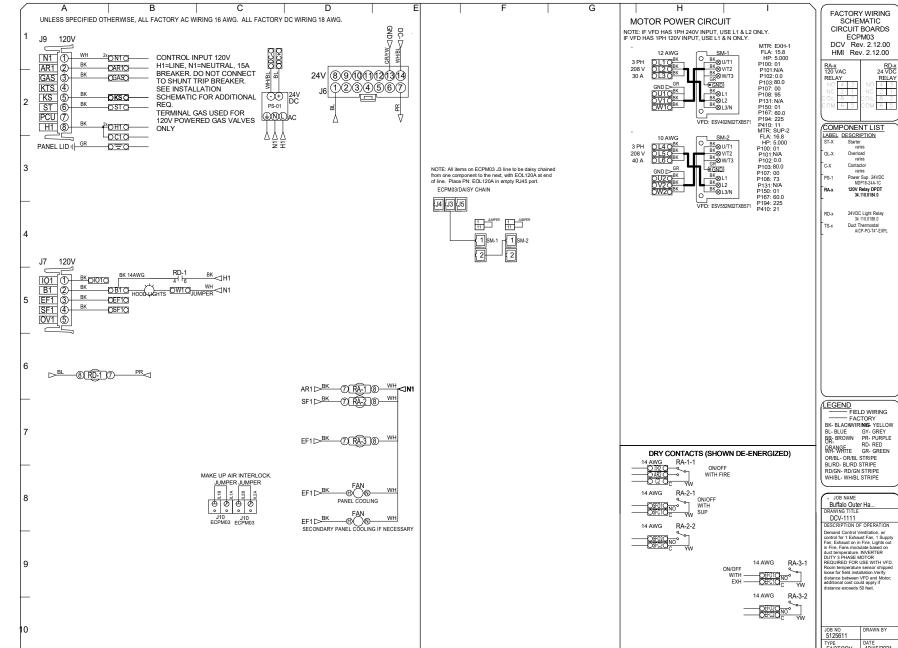
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> **Exhaust Hood** Shop Dwgs





SC-20 x 18 x 8.62 BOX

DEMAND CONTROL VENTILATION HOOD CONTROL PANEL SPECIFICATIONS:

- CONTROLS SHALL BE LISTED BY ETL (UL 508A) AND SHALL COMPLY WITH DEMAND VENTILATION SYSTEM TURNDOWN REQUIREMENTS OUTLINED IN IECC 403.2.8 (2015).
- THE CONTROL ENCLOSURE SHALL BE NEMA 1 RATED AND LISTED FOR INSTALLATION INSIDE OF THE EXHAUST HOOD UTILITY CABINET. THE CONTROL ENCLOSURE MAY BE CONSTRUCTED OF STAINLESS STEEL

TEMPERATURE PROBE(S) LOCATED IN THE EXHAUST DUCT RISER(S) SHALL BE CONSTRUCTED OF STAINLESS STEEL.

- A DIGITAL CONTROLLER SHALL BE PROVIDED TO ACTIVATE THE HOOD EXHAUST FANS DYNAMICALLY BASED ON A FIXED DIFFERENTIAL BETWEEN THE AMBIENT AND DUCT TEMPERATURES SENSORS. THIS FUNCTION SHALL MEET THE REQUIREMENTS OF IMC 507.1.1.
- A DIGITAL CONTROLLER SHALL PROVIDE ADJUSTABLE HYSTERESIS SETTINGS TO PREVENT CYCLING OF THE FANS AFTER THE COOKING APPLIANCES HAVE BEEN TURNED OFF AND/OR THE HEAT IN THE EXHAUST
- A DIGITAL CONTROLLER SHALL PROVIDE AN ADJUSTABLE MINIMUM FAN RUN-TIME SETTING TO PREVENT FAN CYCLING.
- VARIABLE FREQUENCY DRIVES (VFDS) SHALL BE PROVIDED FOR FANS AS REQUIRED. THE DIGITAL CONTROLLER SHALL MODULATE THE VFDS BETWEEN A MINIMUM SETPOINT AND A MAXIMUM SETPOINT ON DEMAND. THE DUCT TEMPERATURE SENSOR INPUT(S) TO THE DIGITAL CONTROLLER SHALL BE USED TO CALCULATE THE SPEED REFERENCE SIGNAL.
- THE VFD SPEED RANGE OF OPERATION SHALL BE FROM 0% TO 100% FOR THE SYSTEM, WITH THE ACTUAL MINIMUM SPEED SET AS REQUIRED TO MEET MINIMUM VENTILATION REQUIREMENTS.
- AN INTERNAL ALGORITHM TO THE DIGITAL CONTROLLER SHALL MODULATE SUPPLY FAN VFD SPEED PROPORTIONAL TO ALL EXHAUST FANS THAT ARE LOCATED IN THE SAME FAN GROUP AS THE SUPPLY FAN.
- THE SYSTEM SHALL OPERATE IN PREP MODE DURING LIGHT COOKING LOAD OR COOL DOWN MODE WHEN SUFFICIENT HEAT REMAINS UNDERNEATH THE HOOD SYSTEM AFTER COOKING OPERATIONS HAVE COMPLETED. OPERATION DURING EITHER OF THESE PERIODS WILL DISABLE THE SUPPLY FANS AND PROVIDE AN EXHAUST FAN SPEED THAT IS EQUAL TO THE MINIMUM VENTILATION REQUIREMENT.
- A DIGITAL CONTROLLER SHALL DISABLE THE SUPPLY FAN(S), ACTIVATE THE EXHAUST FAN(S), ACTIVATE THE APPLIANCE SHUNT TRIP, AND DISABLE AN ELECTRIC GAS VALVE AUTOMATICALLY WHEN FIRE CONDITION IS DETECTED ON A COVERED HOOD.
- A DIGITAL CONTROLLER SHALL ALLOW FOR EXTERNAL BMS FAN CONTROL VIA DRY CONTACT (EXTERNAL CONTROL SHALL NOT OVERRIDE FAN OPERATION LOGIC AS REQUIRED BY CODE).
- AN LCD INTERFACE SHALL BE PROVIDED WITH THE FOLLOWING FEATURES:
- A. ON/OFF PUSH BUTTON FAN & LIGHT SWITCH ACTIVATION.
- B. INTEGRATED GAS VALVE RESET FOR ELECTRONIC GAS VALVES (NO RESET RELAY REQUIRED). C. VFD FAULT DISPLAY WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
- D. DUCT TEMPERATURE SENSOR FAILURE DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
- E. MIS-WIRED DUCT TEMPERATURE SENSOR DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION. F. A SINGLE LOW VOLTAGE CAT-5 RJ45 WIRING CONNECTION. G. AN ENERGY SAVINGS INDICATOR THAT UTILIZES MEASURED KWH FROM THE VFDS.

- THE TEMPERATURE AT THE HOOD CAVITY OR EXHAUST DUCT COLLAR. FANS ACTIVATE AT A CONFIGURABLE TEMPERATURE DIFFERENTIAL THRESHOLD. DEPENDING ON THE JOB CONFIGURATION EACH FAN ZONE CAN BE CONFIGURED AS STATIC OR DYNAMIC. THESE TERMS REFER TO WHETHER A VARIABLE MOTOR (SUCH AS EC MOTORS OR VFD DRIVEN MOTORS) MODULATE WITH TEMPERATURE. IF THE PANEL IS EQUIPPED WITH VARIABLE SPEED FANS AND THE ZONE IS DEFINED AS "DYNAMIC", THESE WILL MODULATE WITHIN A USER-DEFINED RANGE BASED ON THE TEMPERATURE DIFFERENTIAL. PANELS EQUIPPED WITH VARIABLE SPEED FANS AND A FAN ZONE DEFINED AS "STATIC", FANS WILL RUN AT A SET SPEED
- EXHAUST AND MAKE UP AIR FAN SPEEDS PER THE REQUIREMENTS OUTLINED IN IECC 403.2.8.
- MANUAL: THE SYSTEM OPERATES BASED ON HUMAN INPUT FROM AN HMI.
- DAY. THERE ARE THREE OCCUPIED TIMES PER DAY TO ALLOW FOR THE USER TO SET UP A TIME THAT IS SUITABLE TO THEIR NEEDS. ANY TIME THAT IS WITHIN THE DEFINED OCCUPIED TIME, THE SYSTEM WILL RUN AT MODULATION MODE AND FOLLOW THE FAN PROCEDURE ALGORITHM BASED ON TEMPERATURE DURING THIS TIME. DURING UNOCCUPIED TIME, THE SYSTEM WILL HAVE AN EXTRA OFFSET TO PREVENT UNINTENDED ACTIVATION OF THE SYSTEM DURING A TIME WHERE THE SYSTEM IS NOT BEING OCCUPIED.
- HARD-WIRED INTERLOCK).
- FIRE: UPON ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM, THE EXHAUST FAN WILL COME ON OR CONTINUE TO TO RUN, THE HOOD MAKEUP AIR WILL SHUTDOWN, AND A SIGNAL WILL BE SENT FOR ACTIVATING THE SHUNT TRIP BREAKER PROVIDED BY THE ELECTRICIAN. FUEL GAS WILL SHUT OFF VIA A MECHANICAL/ELECTRICAL GAS VALVE ACTUATED BY THE HOOD FIRE SUPPRESSION SYSTEM.



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10/15/2021

RDC-17

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3/4" = 1'-0" MASTER DRAWING

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Exhaust Hood Shop Dwgs

DUCT TEMPERATURE SENSOR. CONTROL PANEL. ROOM TEMPERATURE

TYPICAL HOOD CONTROL PANEL INSTALLATION

SEQUENCE OF OPERATIONS:

THE HOOD CONTROL PANEL IS CAPABLE OF OPERATING IN ONE OR MORE OF THE FOLLOWING STATES AT ANY

- <u>AUTOMATIC:</u> THE SYSTEM OPERATES BASED ON THE DIFFERENTIAL BETWEEN ROOM TEMPERATURE AND CALCULATED FOR THE DRIVE. DEMAND CONTROL VENTILATION SYSTEMS ARE CAPABLE OF MODULATING

SCHEDULE: A WEEKLY SCHEDULE CAN BE SET TO RUN FANS FOR A SPECIFIED PERIOD THROUGHOUT THE

OTHER: THE SYSTEM OPERATES BASED ON THE INPUT FROM AN EXTERNAL SOURCE (DDC, BMS OR

GENERAL SYMBOLS PIPING SYMBOLS DEMOLISH/REMOVE DIRECTION OF FLOW REDUCER OR INCREASER **GENERAL LINETYPES** TOP CONNECTION, 45° OR 90° ____ BOTTOM CONNECTION, 45° OR 90° DEMOLITION LINE SIDE CONNECTION DRAIN LINE CAPPED OUTLET RISE OR DROP IN PIPE COLD WATER **─**─||**├**── UNION PIPE UP HOT WATER PIPE DOWN SANITARY SEWER **—** POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK PROPERTY BOUNDARY LIMIT OF DEMOLITION **— STRAINER** PUMP STORM WATER \bigcirc FLOW METER **ABBREVIATIONS** CO ()—— **CLEAN OUT** THERMOMETER CLEAN OUT DF DRINKING FOUNTAIN PRESSURE GAUGE DN DOWN FCO FLOOR CLEAN OUT THERMOSTAT/ AQUASTAT FD FLOOR DRAIN **GALLONS PER MINUTE** GPM **AUTOMATIC AIR VENT** HB **HOSE BIB** LAV LAVATORY SK SINK S-SK SERVICE SINK TYP **TYPICAL VENT** VTR VENT TO ROOF **WPCO** WALL PLATE CLEAN OUT WATER CLOSET

VALVE SYMBOLS							
\bowtie	GATE VALVE						
	GATE VALVE - THREADED/FLANGED						
	GLOBE VALVE - THREADED/FLANGED						
$\longrightarrow \bigvee \vdash \sqsubseteq$	GATE VALVE WITH 3/4" HOSE ADAPTER						
	CHECK VALVE						
	FLEXIBLE CONNECTION						
—— / ——	BUTTERFLY VALVE						
——XX	BALL VALVE						
<u> </u>	MODULATING CONTROL VALVE						
——F——	MODULATING CONTROL BUTTERFLY VALVE						
	PRESSURE REGULATING VALVE						
	PRESSURE SAFETY VALVE						
<u> </u>	SOLENOID ACTUATED VALVE						
——ID	AUTOMATIC BALANCING CONTROL VALVE						
——XX	WATER BALANCE DEVICE						

HYDRANT

VALVE IN VALVE BOX

PLUMBING FIXTURE CONNECTION SCHEDULE									
MARK	DESCRIPTION	COLD WATER	HOT WATER	SANITARY	VENT	REMARKS			
WC	WATER CLOSET	1"	Х	3"	2"	MANUAL FLUSH VALVE, ADA COMPLIANT			
LAV	LAVATORY	1/2"	1/2"	1-1/4"	1-1/4"	THERMOSTATIC MIXING VALVE REQUIRED			
DF	DRINKING FOUNTAIN	3/8"	X	1-1/4"	1-1/4"	INTEGRATED WITH BOTTLE FILLER			
НВ	HOSE BIB	3/4"	Х	Х	Х	LEAD FREE, NON-FREEZE, ANTI-SIPHON, AUTO DRAINING			
MB	MOP BASIN	1/2"	1/2"	3"	2"	FLOOR MOUNTED			
FWS	FOOT WASH STATION					BASIS OF DESIGN: WILLOUGHBY OUTDOOR FOOT SHOWER			

WATER HEATER SCHEDULE							
MARK	DESCRIPTION	DESIGN FLOW (GPM)	TEMP RISE	WATER CONNECTION	ELECTRIC	BASIS OF DESIGN	
WH-1 THRU WH-5	BATHROOM TANKLESS ELECTRIC WATER HEATER	0.5	48F	1/2" NPT	120 V	RHEEM RTEX-04	
WH-6 & WH-7	MECHANICAL ROOM TANKLESS GAS WATER HEATER	14.5	40F	1" NPT	120 V	ATIO-910	

PUMP SCHEDULE										
PUMP	BASIS OF DESIGN	TYPE	CONFIGURATION	FLOW	HEAD	RPM	POWER	VOLTAGE	PHASE	FREQUENCY
PMP-1	GRUNDFOS ALPHA2 L 25-60 180	CIRCULATION	IN-LINE	2 GPM	20.01 FT	-	0.03kW	230	1	60 HZ

GENERAL NOTES

- 1. DESIGN CONSTRUCTION AND SAFETY SHALL CONFORM TO ALL LOCAL, STATE AND OWNER SPECIFIC CODES, INCLUDING (BUT NOT LIMITED TO) THE 2020 BUILDING CODE OF NEW YORK STATE.
- 2. THIS CONTRACT REQUIRES COMPLETE, FINISHED WORKABLE PROJECT OF THE AREAS INDICATED BY THE CONTRACT DOCUMENTS, AND SHALL INCLUDE ALL MATERIALS AND LABOR NECESSARY TO COMPLETE, REGARDLESS OF WHETHER OR NOT ALL WORK OR EACH ITEM IS SPECIFICALLY INDICATED ON ANY OTHER PORTION OF THE DRAWINGS AND/OR NOTES.
- WHERE MATERIALS REFERENCED ON DRAWINGS, OR NECESSARY TO COMPLETE THE WORK OF THIS CONTRACT ARE NOT SPECIFIED HEREIN, PROVIDE BEST QUALITY MATERIAL. WHERE MATERIALS ARE INTENDED TO MATCH EXISTING, PROVIDE CLOSEST POSSIBLE MATCH, SUBJECT TO OWNERS APPROVAL. ALL ITEMS AND WORK ON DRAWINGS ARE NEW, UNLESS INDICATED EXISTING. ALL WORK WHICH HAS BEEN DAMAGED SHALL BE REPAIRED TO A "NEW CONDITION", OR WHERE THE STRUCTURAL INTEGRITY HAS BEEN AFFECTED, ITEMS SHALL BE REPLACED AT NO COST TO THE OWNER.
- CONTRACTOR IS RESPONSIBLE TO VERIFY ALL SITE, FIELD AND BUILDING CONDITIONS PRIOR TO SUBMITTING BIDS AND COMMENCING WORK. IF THERE ARE ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS, NOTIFY THE CONSTRUCTION MANAGER AND ARCHITECT/ENGINEER AND REQUEST CLARIFICATION.
- DRAWINGS MAY NOT INDICATE ALL DEMOLITION/REMOVALS. CONTRACTOR SHALL REFER TO DRAWINGS, SPECIFICATIONS AND VERIFY FIELD CONDITIONS TO DETERMINE FULL SCOPE AND PARTICULARS OF REMOVALS AS REQUIRED FOR AND COORDINATED WITH THE NEW WORK PRIOR TO BIDDING WORK. VERIFY AND CONFIRM WITH OWNER WHICH ITEMS ARE TO BE SAVED FOR OWNER'S USE OR REINSTALLATION BY CONTRACTOR.
- WHERE CONSTRUCTION OR ITEMS HAVE BEEN INFILLED, REMOVED AND/OR DISTURBED FOR INSTALLATION OF NEW WORK, CAUSING THE EXPOSURE OF UNFINISHED AND/OR DAMAGED SURFACES, RESULTING SURFACES AND INFILLED SURFACES SHALL BE RECONSTRUCTED WITH MATERIALS TO MATCH FINISHED. ALL ABANDONED OPENINGS (I.E., DUCT/PIPE REMOVALS, ETC.) AT WALLS, ROOF OR FLOOR TO BE INFILLED SOLID.
- WORK IS REQUIRED IN VARIOUS PORTIONS OF THE FACILITY TO EXECUTE WORK OF OTHER TRADES (I.E. ELECTRICAL, MECHANICAL). ALTHOUGH NOT NECESSARILY SHOWN ON DRAWINGS, WORK IS REQUIRED IN THESE AREAS CONSISTING OF PLACEMENT OF CEILINGS, WALL, FINISHES, PAVEMENT AND OTHER CONSTRUCTION AS NECESSARY TO PERFORM WORK AND RESTORE THESE SPACES OR AREAS TO ORIGINAL CONDITIONS.
- CONTRACTOR SHALL COORDINATE THE WORK WITH EACH TRADE SO THAT THE WORK AND SCHEDULE ARE NOT IMPEDED. SCHEDULE WORK PROGRESS THROUGHOUT THE ENTIRE PROJECT TO PREVENT CONFLICTS AND INTERFERENCES. OBTAIN ALL NECESSARY INFORMATION SUCH AS SIZES, LOCATIONS, TEMPLATES, LAYOUT, DIMENSIONS AND ALL OTHER INFORMATION NECESSARY FOR A PROPER AND WELL COORDINATED INSTALLATION. PRIOR TO INSTALLATION OF ITEMS, VERIFY AND CONFIRM WITH EACH TRADE EXACT LOCATION OF ALL ITEMS.
- 9. ALL PENETRATIONS THROUGH FLOORS AND FULL HEIGHT WALLS TO BE FIRE STOPPED. ALL GAPS AND JOINTS AT FIRE RESISTIVE FLOORS, ROOFS AND WALL TO BE FIRE AND SMOKE STOPPED. GAPS AND JOINTS INCLUDE (BUT ARE NOT LIMITED TO) TOP OF WALL TO FLOOR OR ROOF DECK WALL TO BEAMS, AND CONTROL OR EXPANSION FIRE STOPPING INCLUDES BOTH FORM OR PACKING MATERIAL AND THE FILL, VOID OR CAVITY MATERIAL
- 10. LABEL ALL PIPING IN ACCORDANCE WITH ASME A13.1
- 11. PIPE LABEL LOCATIONS: LOCATE PIPE LABELS, WHERE PIPING IS EXPOSED OR ABOVE ACCESSIBLE CEILINGS IN FINISHED SPACES: MACHINE ROOMS: ACCESSIBLE MAINTENANCE SPACES SUCH AS SHAFTS, TUNNELS, AND PLENUMS; AND EXTERIOR EXPOSED LOCATIONS AS FOLLOWS:
- A. NEAR EACH VALVE AND CONTROL DEVICE.
- B. NEAR EACH BRANCH CONNECTION, EXCLUDING SHORT TAKEOFFS FOR FIXTURES AND TERMINAL UNITS. WHERE FLOW PATTERN IS NOT OBVIOUS, MARK EACH PIPE AT BRANCH
- C. NEAR PENETRATIONS AND ON BOTH SIDES OF THROUGH WALLS, FLOORS, CEILINGS, AND INACCESSIBLE ENCLOSURES.
- D. AT ACCESS DOORS, MANHOLES, AND SIMILAR ACCESS POINTS THAT PERMIT VIEW OF CONCEALED PIPING.
- E. NEAR MAJOR EQUIPMENT ITEMS AND OTHER POINTS OF ORIGINATION AND TERMINATION.
- F. SPACED AT MAXIMUM INTERVALS OF 50 FEET ALONG EACH RUN. REDUCE INTERVALS TO 25 FEET IN AREAS OF CONGESTED PIPING AND EQUIPMENT.
- 12. ALL SITE WATER SERVICE PIPING TO HAVE MINIMUM 5 FEET BURIAL DEPTH.
- 13. CONTAMINATED SOILS ARE KNOWN TO BE PRESENT AT THE SITE. ALL EXCAVATED MATERIALS SHALL BE MANAGED IN ACCORDANCE WITH THE SPECIFICATION SECTION 01 7149. SEE SPECIFICATION FOR REQUIREMENTS FOR STOCKPILING, TESTING, REUSE, AND DISPOSAL PER NYSDEC REGULATIONS.
- 14. NO CONTAMINATED RECLAIMED SOILS MAY BE USED WITHIN THE TOP 12" OF FINISHED GRADE OF PLANTED AREAS EXCEPT THOSE AREAS THAT ARE ENCLOSED IN PERMANENT FENCE.

APPLICABLE CODES

THE APPLICABLE MODEL CODES, STANDARDS AND REFERENCES DOCUMENTS PERTINENT TO THE PROJECT ARE AS FOLLOWS:

- 2020 BUILDING CODE OF NEW YORK STATE
- 2020 PLUMBING CODE OF NEW YORK STATE
- 2020 FIRE CODE OF NEW YORK STATE





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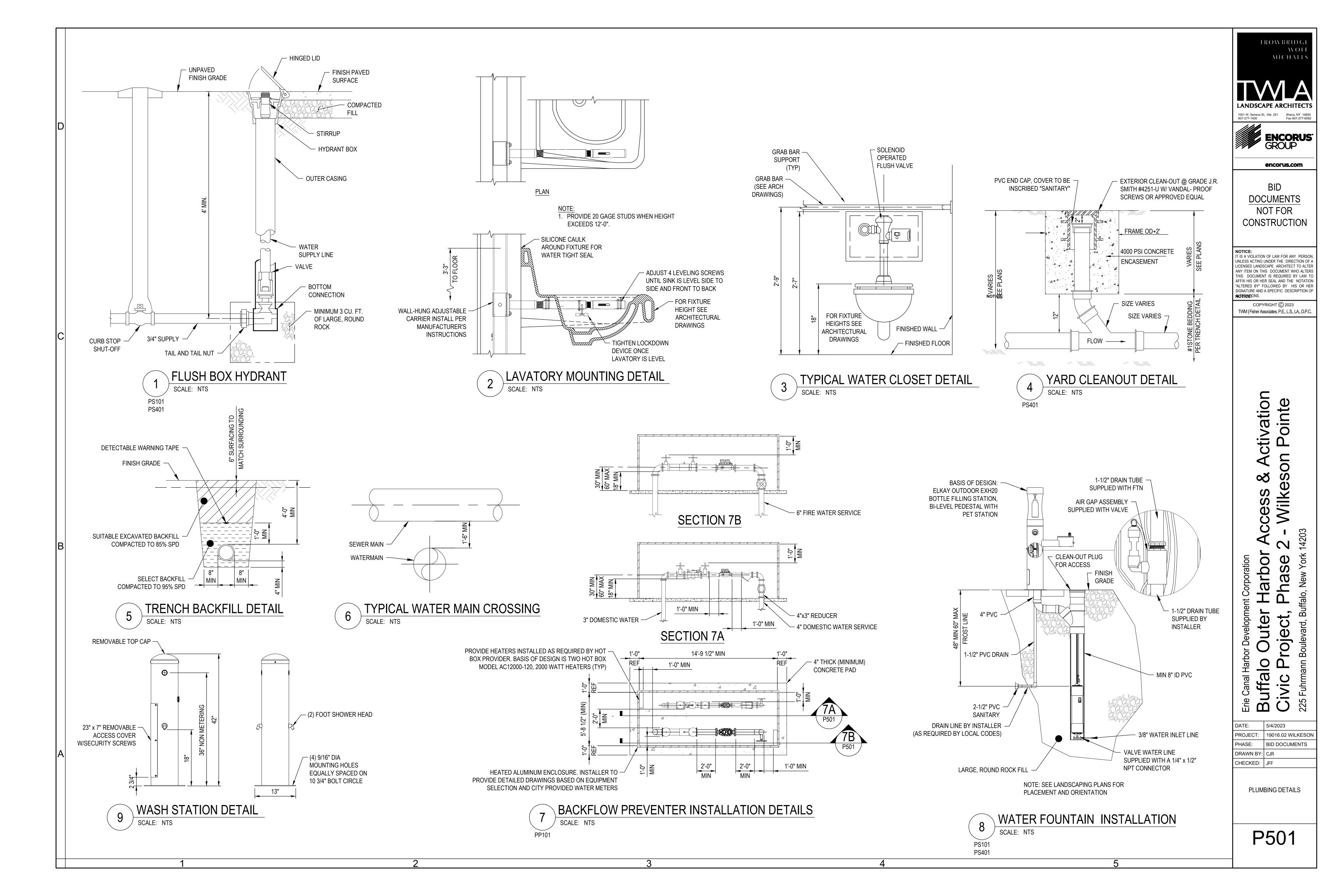
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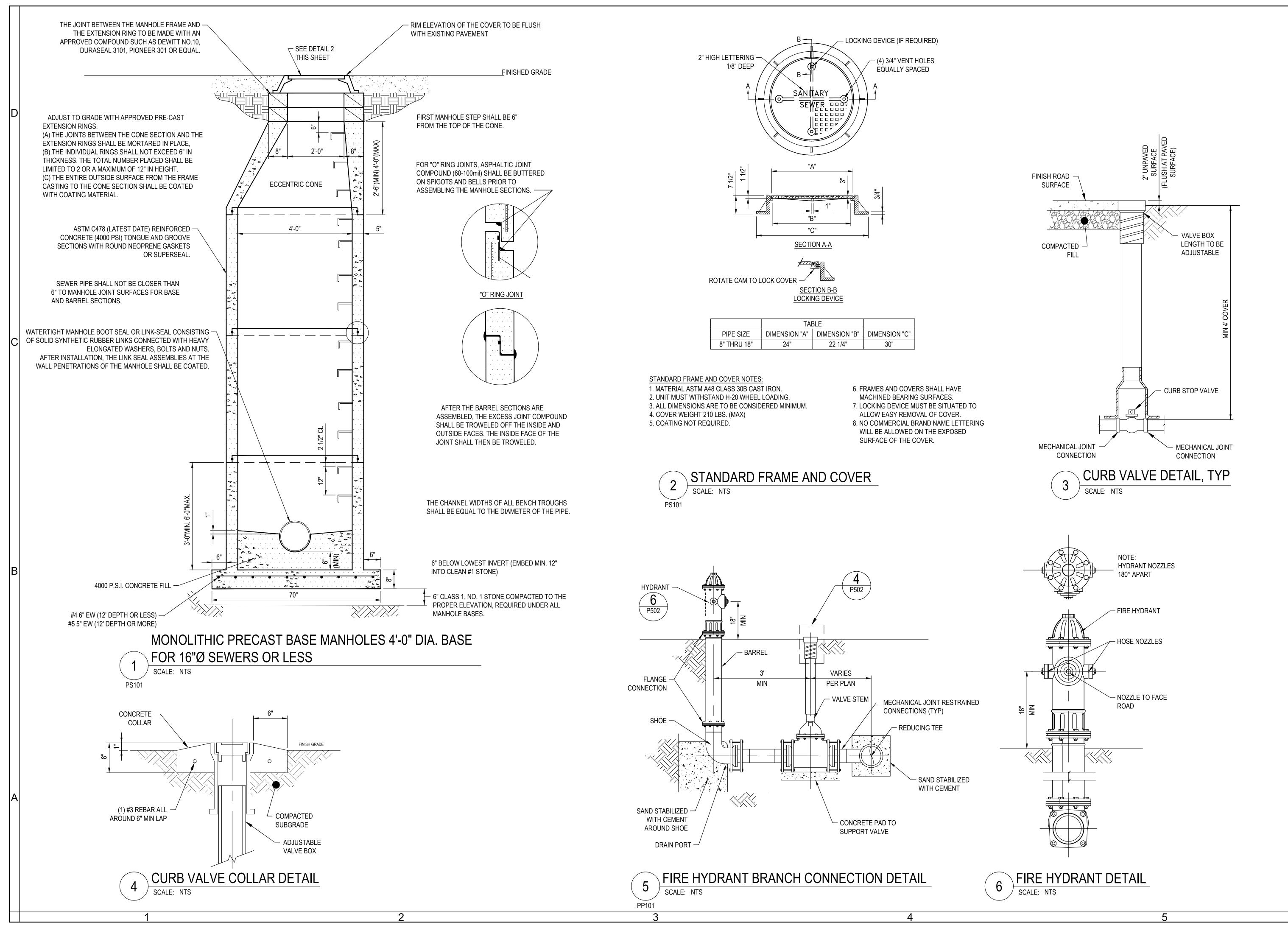
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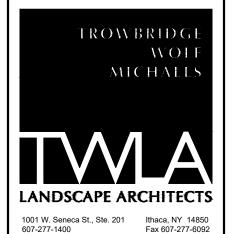
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PLUMBING NOTES AND LEGENDS

P001









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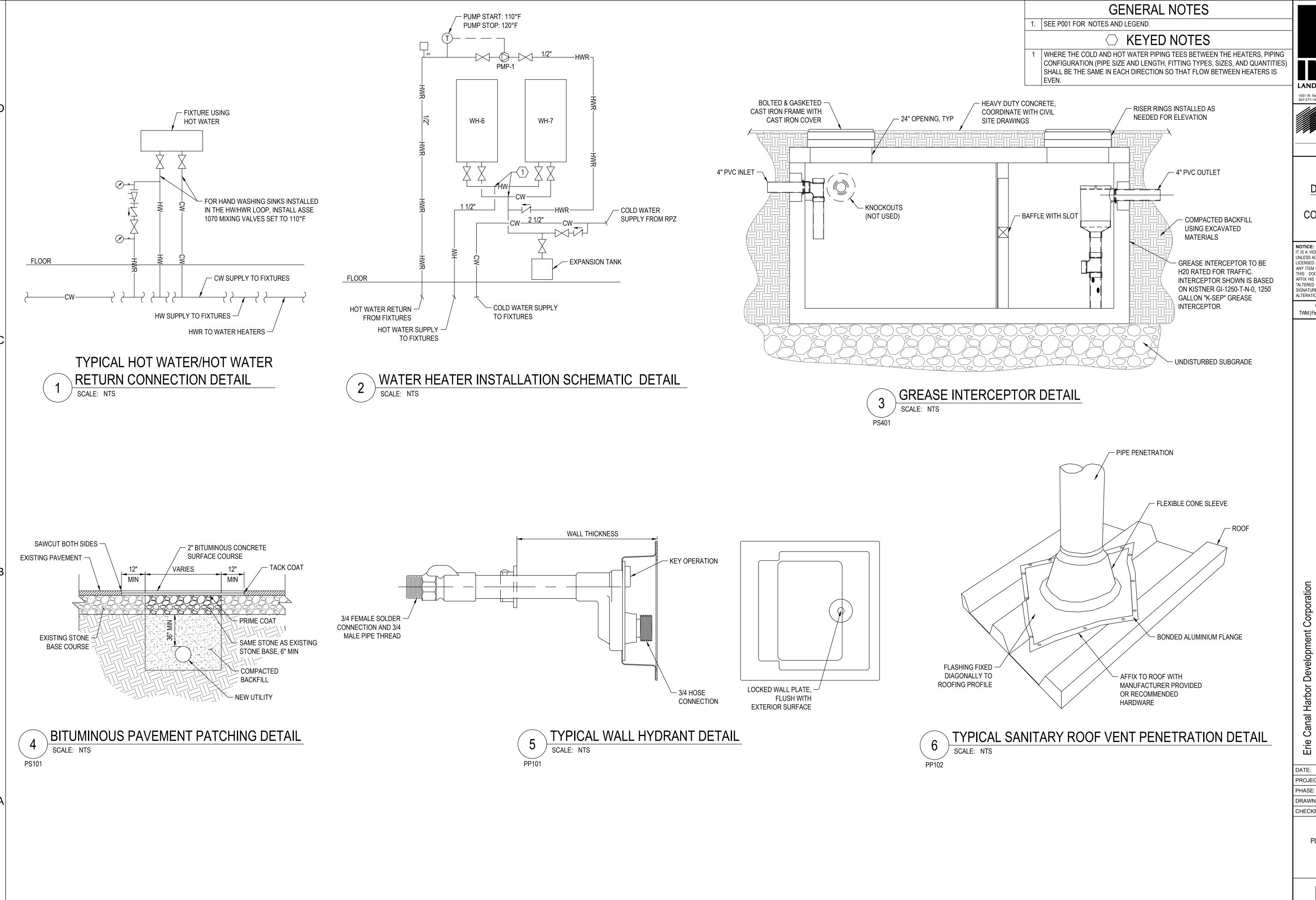
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PLUMBING DETAILS

P502



TROWBRIDGI MICHAELS LANDSCAPE ARCHITECTS

1001 W. Seneca St., Ste. 201 Ithaca, NY 14850 607-277-1400 Fax 607-277-6092

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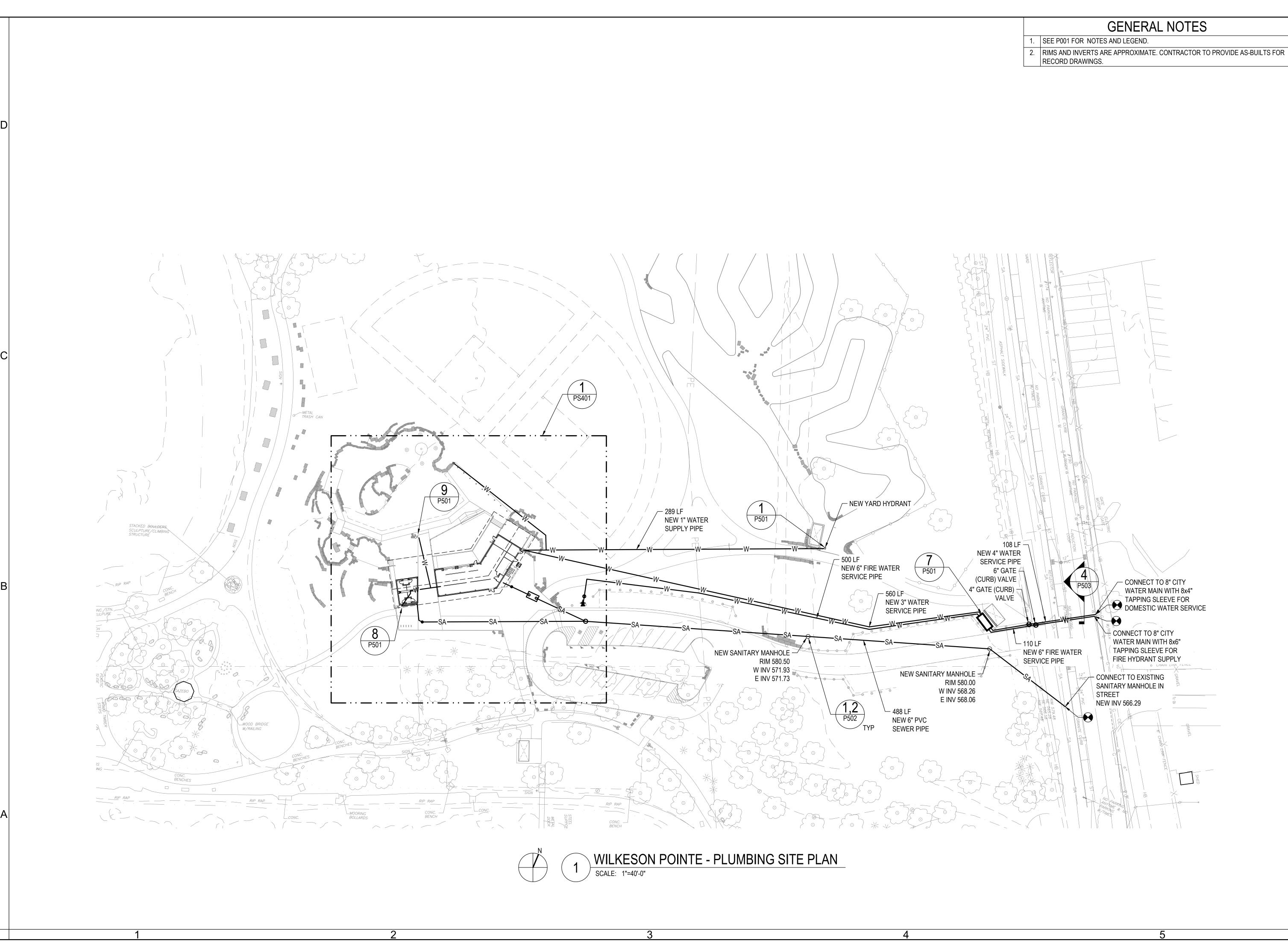
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PLUMBING DETAILS

P503



TROWBRIDGE MICHAELS

LANDSCAPE ARCHITECTS

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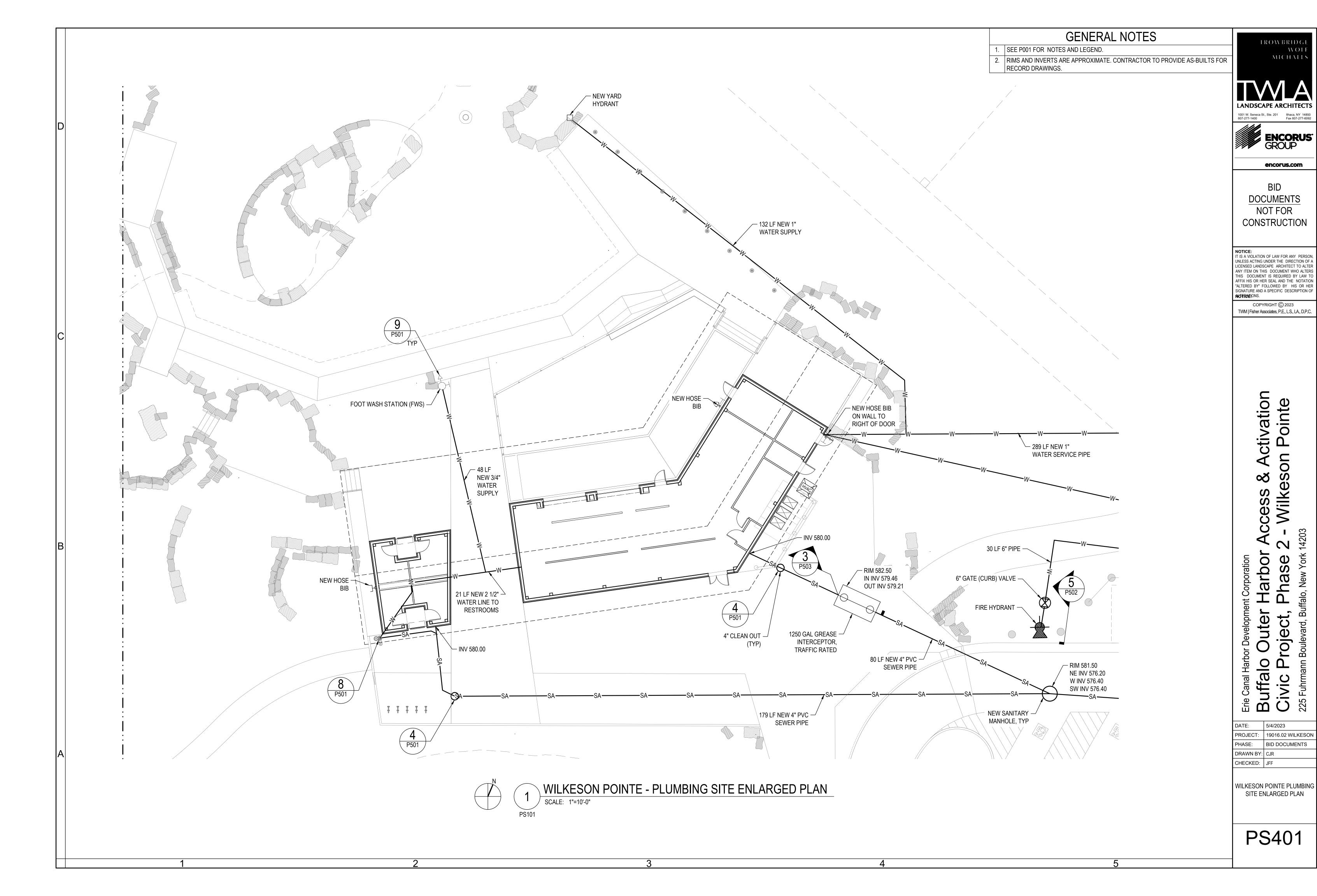
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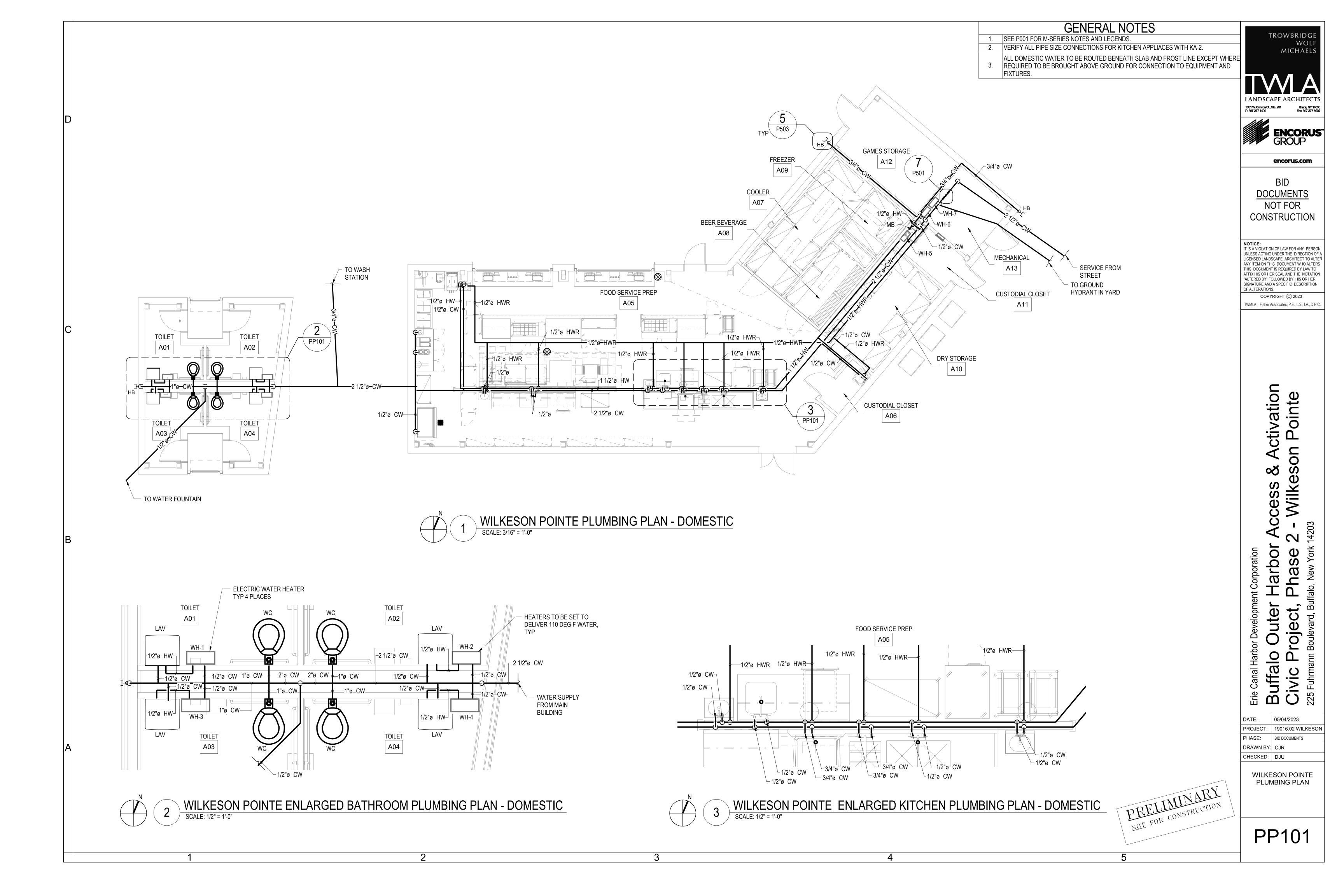
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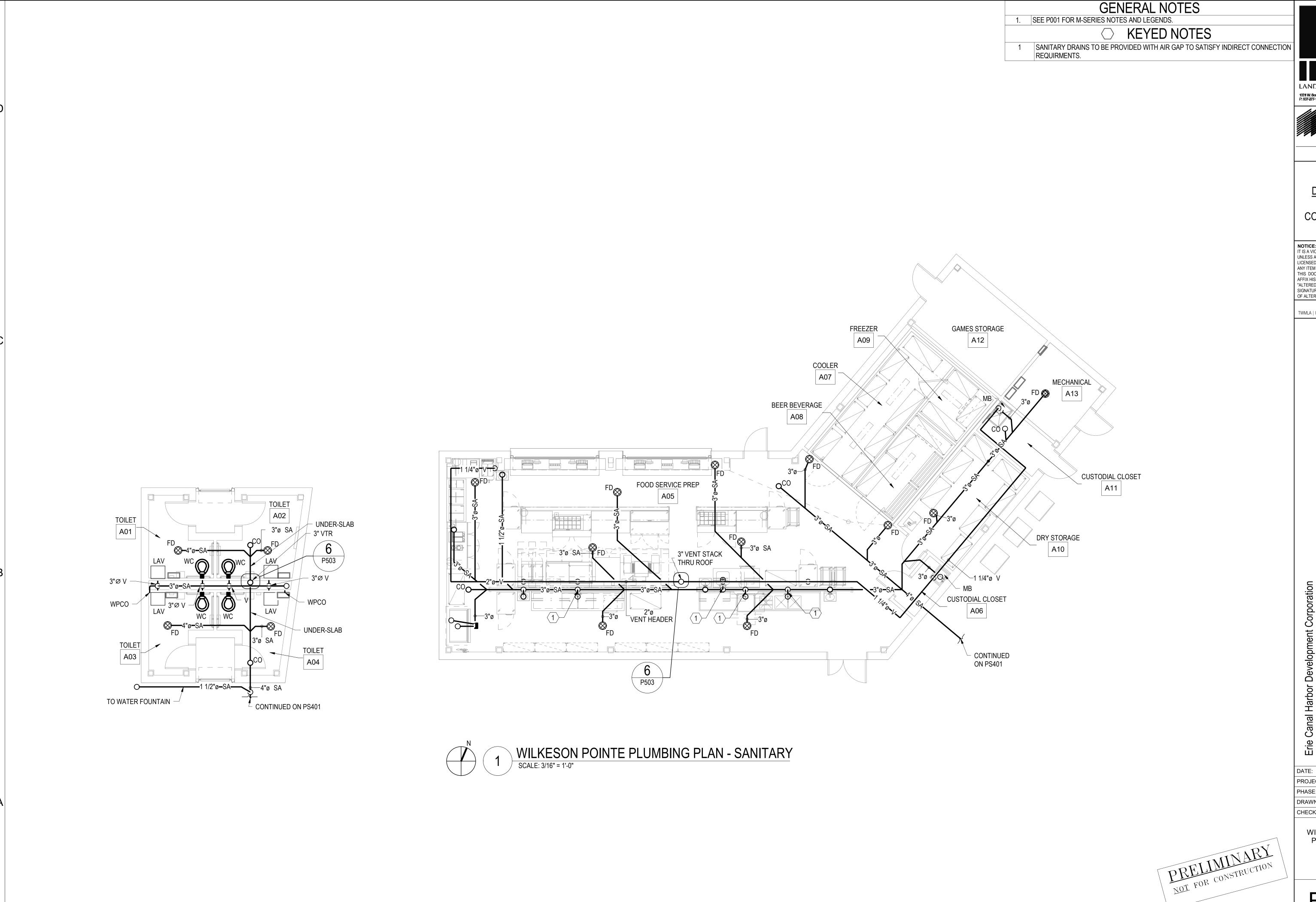
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WILKESON POINTE PLUMBING SITE PLAN

PS101







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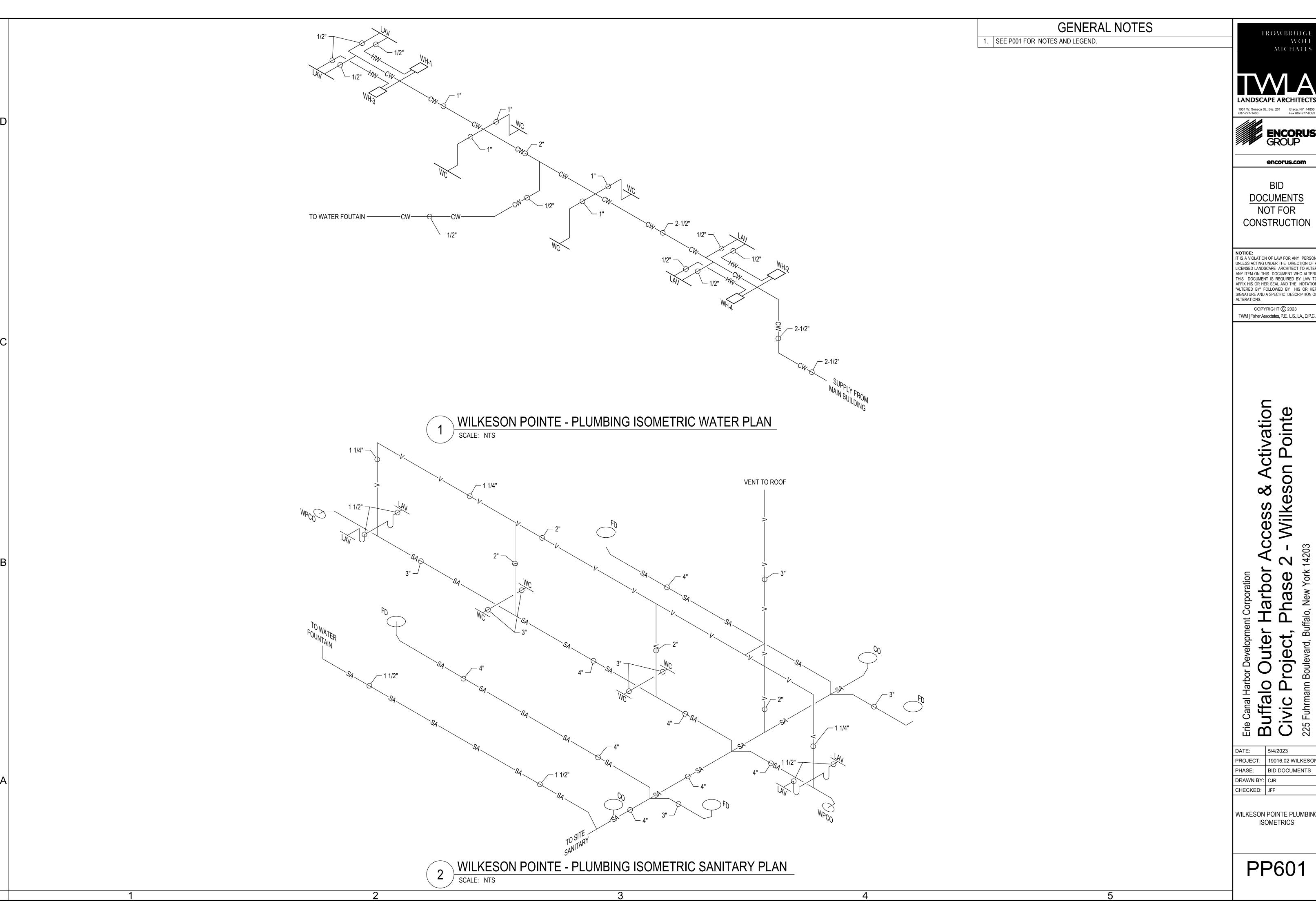
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WILKESON POINTE PLUMBING PLAN

PP102



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Buffalo Outer

Civic Project, I

225 Fuhrmann Boulevard, Buff

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PROJECT:	19016.02 WILKESON					
PHASE:	BID DOCUMENTS					
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WILKESON POINTE PLUMBING ISOMETRICS

PP601

GENERAL SYMBOLS

ROOM NAME AND NUMBER

GENERAL ABBREVIATIONS

AMPERE A/C AIR CONDITIONING AHU AIR HANDLING UNIT

BD BOARD BMS **BUILDING MANAGEMENT SYSTEM** BTU **BRITISH THERMAL UNIT**

CFM **CUBIC FEET PER MINUTE** CNDP CONDENSATE PUMP CONC CONCRETE

CONDENSING UNIT CU **CWR** COLD WATER RETURN **CWS COLD WATER SUPPLY** DB

DRY BULB DOWN DN EΑ EXHAUST AIR EAT **ENTERING AIR TEMPERATURE ECM** ELECTRONICALLY COMMUTATED MOTOR

ER EXHAUST REGISTER EXH **EXHAUST FACP** FIRE ALARM CONTROL PANEL

FCU FAN COIL UNIT FS FLOW SENSOR FT FEED THROUGH LUG

FTL FTR FIN TUBE RADIATOR GAL GALLONS GPM GALLONS PER MINUTE HP HORSEPOWER

HRV HEAT RECOVERY VENTILATOR HWR HOT WATER RETURN HWS HOT WATER SUPPLY

ΗZ HERTZ LAT LEAVING AIR TEMPERATURE MAX MAXIMUM

MBH THOUSAND BTU PER HOUR MOP MAXIMUM OVERCURRENT PROTECTION

MIN MINIMUM MCA MINIMUM CIRCUIT AMPACITY NTS NOT TO SCALE

OA OUTSIDE AIR PH PHASE PSIG POUNDS PER SQUARE INCH GAUGE

PTAC PACKAGED TERMINAL AIR CONDITIONER RA RETURN AIR RETURN GRILL SUPPLY AIR SD SUPPLY DIFFUSER SP STATIC PRESSURE SR SUPPLY REGISTER **TEMP** TEMPERATURE THK TYP **TYPICAL**

UNIT HEATER VAV VARIABLE AIR VOLUME VFD VARIABLE FREQUENCY DRIVE

WET BULB

DUCTWORK SYMBOLS

 $\triangleright \leq$ DN SUPPLY DUCT (UP & DOWN) RETURN EXHAUST DUCT (UP & DOWN)

ROUND AND SQUARE 4-WAY

CEILING DIFFUSERS

GENERAL LINETYPES

CONDENSATE DRAIN LINE REFRIGERANT LIQUID LINE ------RL ------REFRIGERANT SUCTION

GENERAL MECHANICAL SYMBOLS

VENT

SUPPLY DIFFUSER **EXHAUST REGISTER** MOTORIZED DAMPER ROOM THERMOSTAT/TRANSMITTER - WALL MOUNT CONTROL PANEL FAN UH **UNIT-HEATER** -**FLOW PATH** WALL VENT FAN

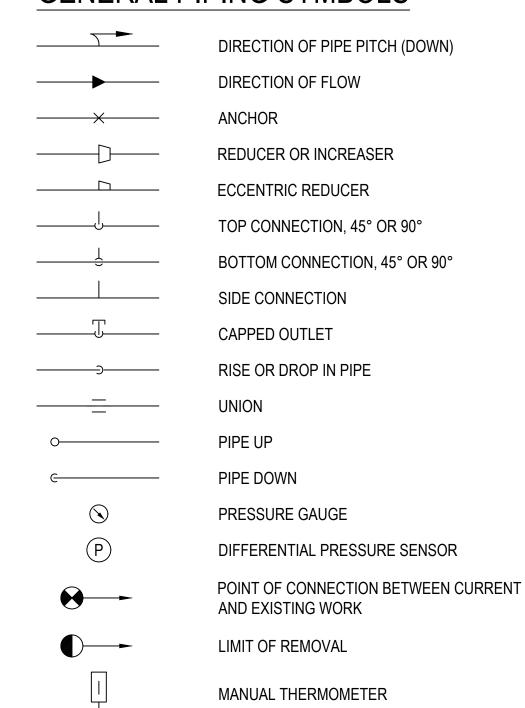
GENERAL VALVE SYMBOLS

VALVE GLOBE VALVE $\longrightarrow \bowtie$ GATE VALVE WITH 3/4 " HOSE ADAPTER CHECK VALVE ANGLE GLOBE VALVE TRIPLE DUTY VALVE BUTTERFLY VALVE BALL VALVE MODULATING CONTROL VALVE THREE-WAY MODULATING CONTROL VALVE VALVE, SOLENOID ACTUATED BACK PRESSURE REGULATING VALVE PRESSURE REGULATING VALVE PRESSURE RELIEF VALVE MANUAL AIR VENT TEST PLUG (PRESSURE/TEMPERATURE) AUTOMATIC AIR VENT WYE STRAINER (WITH BALL VALVE & HOSE CONNECTION)

FLEXIBLE CONNECTION

WATER BALANCE DEVICE

GENERAL PIPING SYMBOLS



TANK

GENERAL NOTES

- 1. DESIGN CONSTRUCTION AND SAFETY SHALL CONFORM TO ALL LOCAL, STATE AND OWNER SPECIFIC CODES, INCLUDING (BUT NOT LIMITED TO) THE NEW YORK SATE BUILDING CODE (2020), AND ANY OTHER CODES GOVERNED BY THE JURISDICTION IN WHICH THIS PROJECT IS BEING CONSTRUCTED
- 2. THIS CONTRACT REQUIRES COMPLETE, FINISHED WORKABLE PROJECT OF THE AREAS INDICATED BY THE CONTRACT DOCUMENTS, AND SHALL INCLUDE ALL MATERIALS AND LABOR NECESSARY TO COMPLETE, REGARDLESS OF WHETHER OR NOT ALL WORK OR EACH ITEM IS SPECIFICALLY INDICATED ON ANY OTHER PORTION OF THE DRAWINGS AND/OR NOTES.
- 3. WHERE MATERIALS REFERENCED ON DRAWINGS. OR NECESSARY TO COMPLETE THE WORK OF THIS CONTRACT ARE NOT SPECIFIED HEREIN, PROVIDE BEST QUALITY MATERIAL. WHERE MATERIALS ARE INTENDED TO MATCH EXISTING, PROVIDE CLOSEST POSSIBLE MATCH, SUBJECT TO OWNERS APPROVAL. ALL ITEMS AND WORK ON DRAWINGS ARE NEW. UNLESS INDICATED EXISTING, ALL WORK WHICH HAS BEEN DAMAGED SHALL BE REPAIRED TO A "NEW CONDITION", OR WHERE THE STRUCTURAL INTEGRITY HAS BEEN AFFECTED, ITEMS SHALL BE REPLACED AT NO COST TO THE OWNER.
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- 8. CONTAMINATED SOILS ARE KNOWN TO BE PRESENT AT THE SITE. ALL EXCAVATED MATERIALS SHALL BE MANAGED IN ACCORDANCE WITH THE SPECIFICATION SECTION 01 7149. SEE SPECIFICATION FOR REQUIREMENTS FOR STOCKPILING, TESTING, REUSE, AND DISPOSAL PER NYSDEC REGULATIONS.
- 9. NO CONTAMINATED RECLAIMED SOILS MAY BE USED WITHIN THE TOP 12" OF FINISHED GRADE OF PLANTED AREAS EXCEPT THOSE AREAS THAT ARE ENCLOSED IN PERMANENT FENCE

THE APPLICABLE MODEL CODES, STANDARDS AND REFERENCES DOCUMENTS PERTINENT TO THE PROJECT ARE AS FOLLOWS:

- ASHRAE STANDARDS
- **NEW YORK STATE MECHANICAL CODE (2020)**
- NFPA 70 NATIONAL ELECTRIC CODE (2020)





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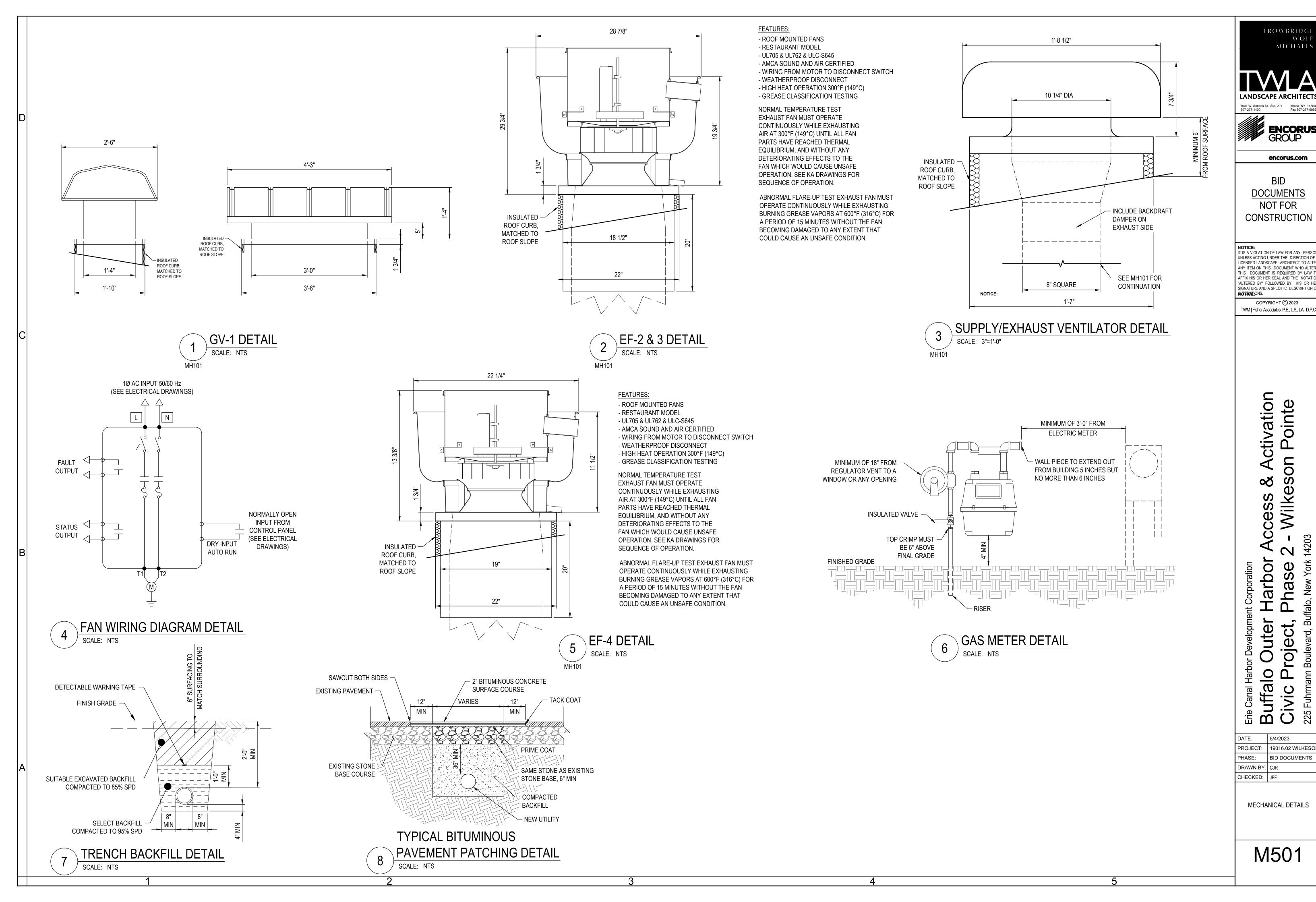
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> MECHANICAL NOTES AND LEGENDS

> > M001







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> > MECHANICAL DETAILS

M501



MICHAELS LANDSCAPE ARCHITECTS



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PHASE:	BID DOCUMENTS
DRAWN BY:	CJR
CHECKED:	JFF

WILKESON POINTE MECHANICAL SITE PLAN

MS101

			BATH	HROOM EX	XHAUST F	FAN SCHEE	ULE		
FAN ID	SERVICE	I TYPE I MAX CEM I DRIVE I RPM I I I NOTES							
17410	LOCATION		WWW COT WI	DITTE	1 (1 141	POWER (W)	V/PH/HZ	DESIGN	110120
EF-1	BATHROOM	INLINE	545	DIRECT	1070	218	120/1/60	GREENHECK CSP-A510	1
SF-1	BATHROOM	INLINE	545	DIRECT	1070	218	120/1/60	GREENHECK CSP-A510	1
NOTES:									

1. PROVIDE WITH COMBINATION MOTOR STARTER/DISCONNECT SWITCH WITH RUN/FAULT INDICATION AND H-O-A CONTROL, BASIS OF DESIGN: GREENHECK MS-1P

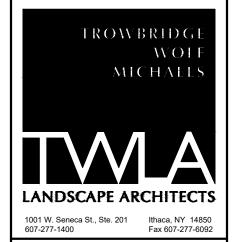
	KITCHEN EXHAUST FAN SCHEDULE										
FAN ID	SERVICE	TYPE	CFM	VELOCITY	RPM	ELECTF	RICAL	BASIS OF DESIGN			
	LOCATION					POWER (HP)	VOLTAGE				
EF-2	KITCHEN	CENTRIFUGAL	2315	633 FPM	860	1/4	115	GREENHECK CUE-160C			
EF-3	KITCHEN	CENTRIFUGAL	2315	633 FPM	860	1/4	115	GREENHECK CUE-160C			
EF-4	KITCHEN	CENTRIFUGAL	774		1300	1/12	115	GREENHECK CUE-095			

			KITCHEN	HOOD SC	HEDULE			
LENGTH	MAX COOKING TEMP	EXHAUST	LIGH	TS	HOOD	FIRE SYSTEM	BASIS OF DESIGN	
		CFM	QTY	TYPE	MATERIAL			
8 FEET	600F	2500	3	L55 SERIES E26	430 SS	ANSUL R102	ECON-AIR 4824 EX-2-PSP-F	

		REGIST	ERS & GRI	LLES SCH	HEDULE	
TYPE	DIMENSIONS	BLADES	BLADE SPACING	O.B. DAMPER	MATERIAL	BASIS OF DESIGN
SUPPLY	6"X6"	HORIZONTAL ADJUSTABLE	.75"	YES	SS	TITUS 301-RS-SS
EXHAUST	6"X6"	HORIZONTAL FIXED	.75"	YES	SS	TITUS 350-RL-SS

	VENTILATOR SCHEDULE									
UNIT ID	LOCATION	TYPE	CFM	SIZE	ACCESSORIES	BASIS OF DESIGN				
GV-1	BEER GARDEN RESTAURANT ROOF	GRAVITY	2600	16" X 36"	BACKDRAFT DAMPER	GREENHECK FGR				
GV-2	BEER GARDEN RESTAURANT ROOF	GRAVITY	2600	16" X 36"	BACKDRAFT DAMPER	GREENHECK FGR				

	UNIT HEATER SCHEDULE											
UNIT	LOCATION	TYPE	CFM	HEATING	ELE	CTRICAL	WEIGHT (LBS)	BASIS OF	NOTES			
UNII	LOCATION	IIFC	CI IVI	BTU/HR	W	V/P/HZ	WEIGHT (EBG)	DESIGN	NOTES			
UH-1-4	BATHROOM	ELECTRIC WALL MOUNTED	160	5118	1500	115/1/60	18.25 X 14.25 X 3.875	INDEECO WAI SERIES				
UH-5-6	MECHANICAL ROOM/ JANITOR ROOM	ELECTRIC WALL MOUNTED	160	5118	1500	115/1/60	18.25 X 14.25 X 3.875	INDEECO WAI SERIES				
UH-7-8	KITCHEN	GAS SUSPENDED	370	24900	-	115/1/60	12.375 X 30 X 25.875	DAYTON 2RYU7A				





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Buffalo Outer Harbor Access & Activation

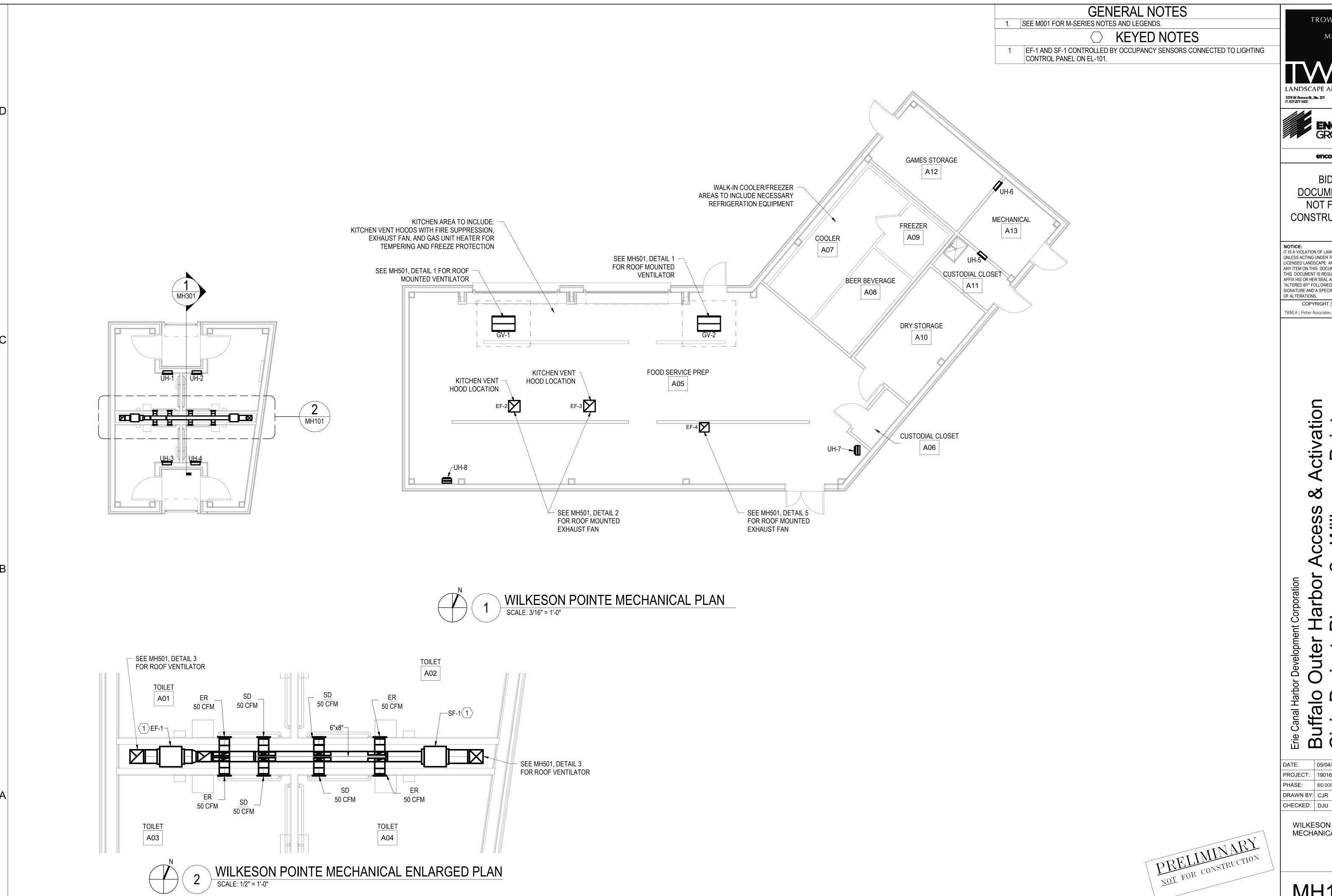
Civic Project, Phase 2 - Wilkeson Pointe

225 Fuhrmann Boulevard, Buffalo, New York 14203

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DATE:	5/4/2023
PROJECT:	19016.02 WILKESON
PHASE:	BID DOCUMENTS
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CHECKED:	JFF

MECHANICAL SCHEDULES

M601



TROWBRIDGE WOLF MICHAELS

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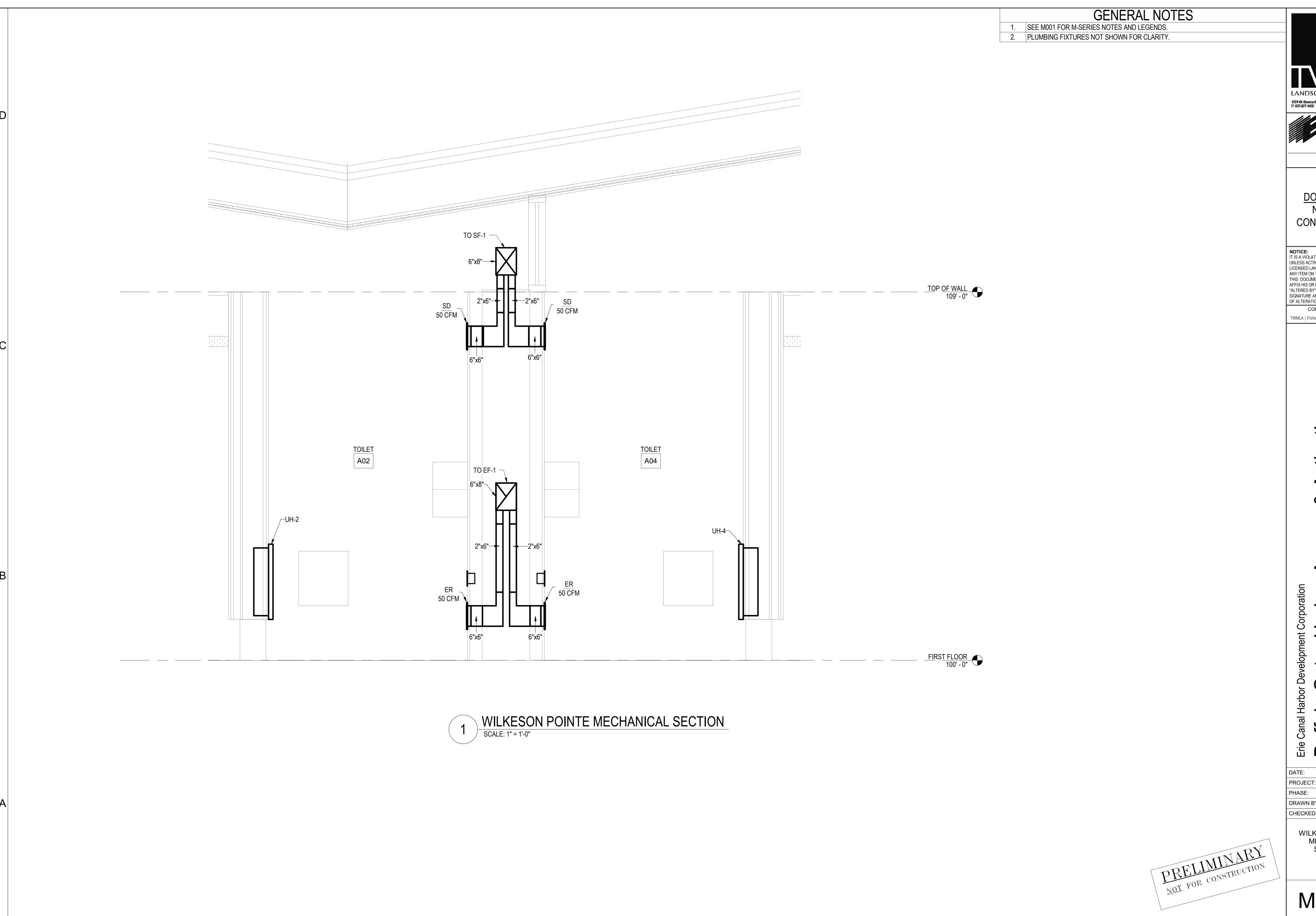
ctivation η Pointe ON cess & Wilkes Ö Harbor Phase Outer

Buffalo Outer Civic Project, 225 Fuhrmann Boulevard, Buf 05/04/2023

19016.02 WILKESON PROJECT: PHASE: BID DOCUMENTS DRAWN BY: CJR CHECKED: DJU

WILKESON POINTE MECHANICAL PLAN

MH101



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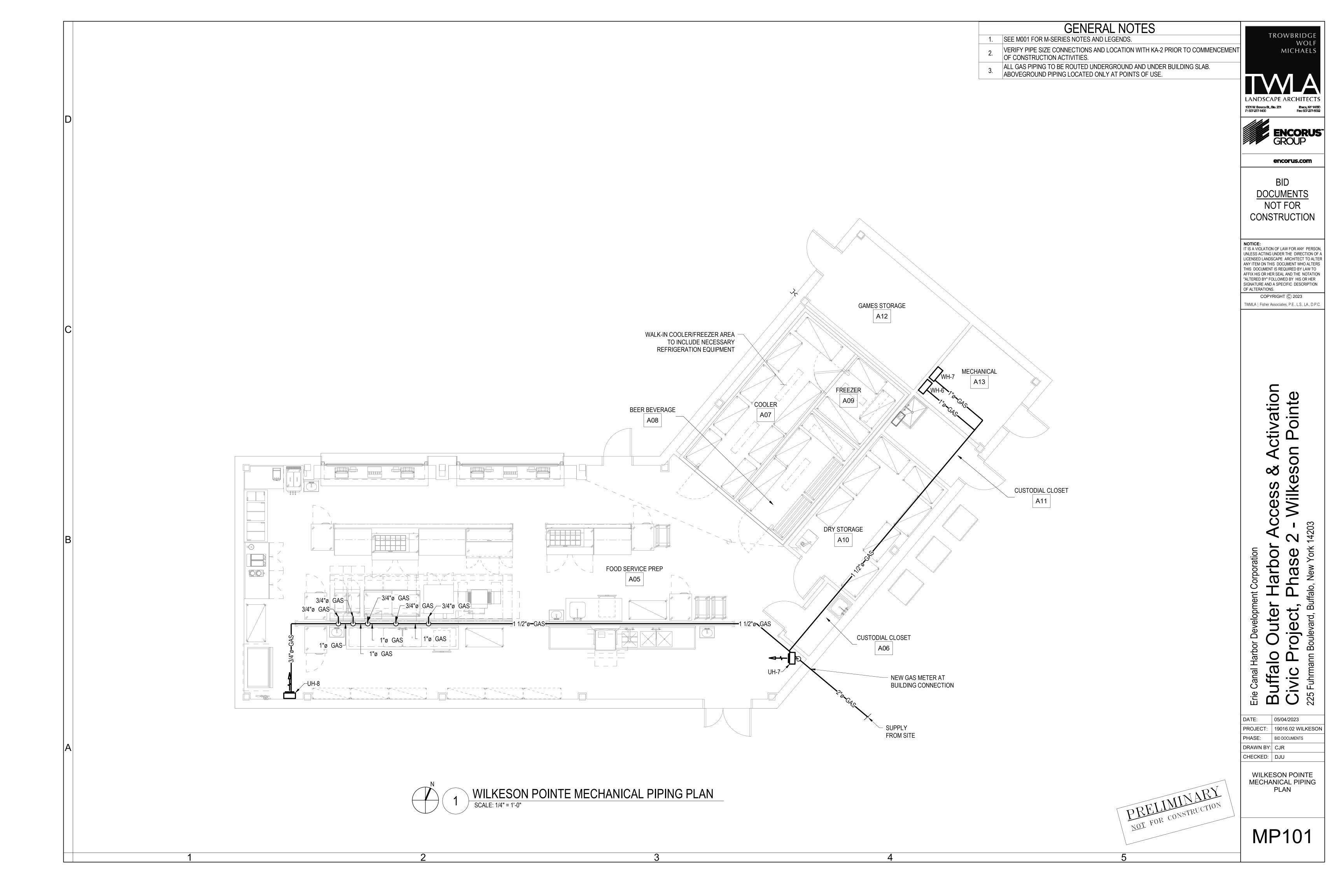
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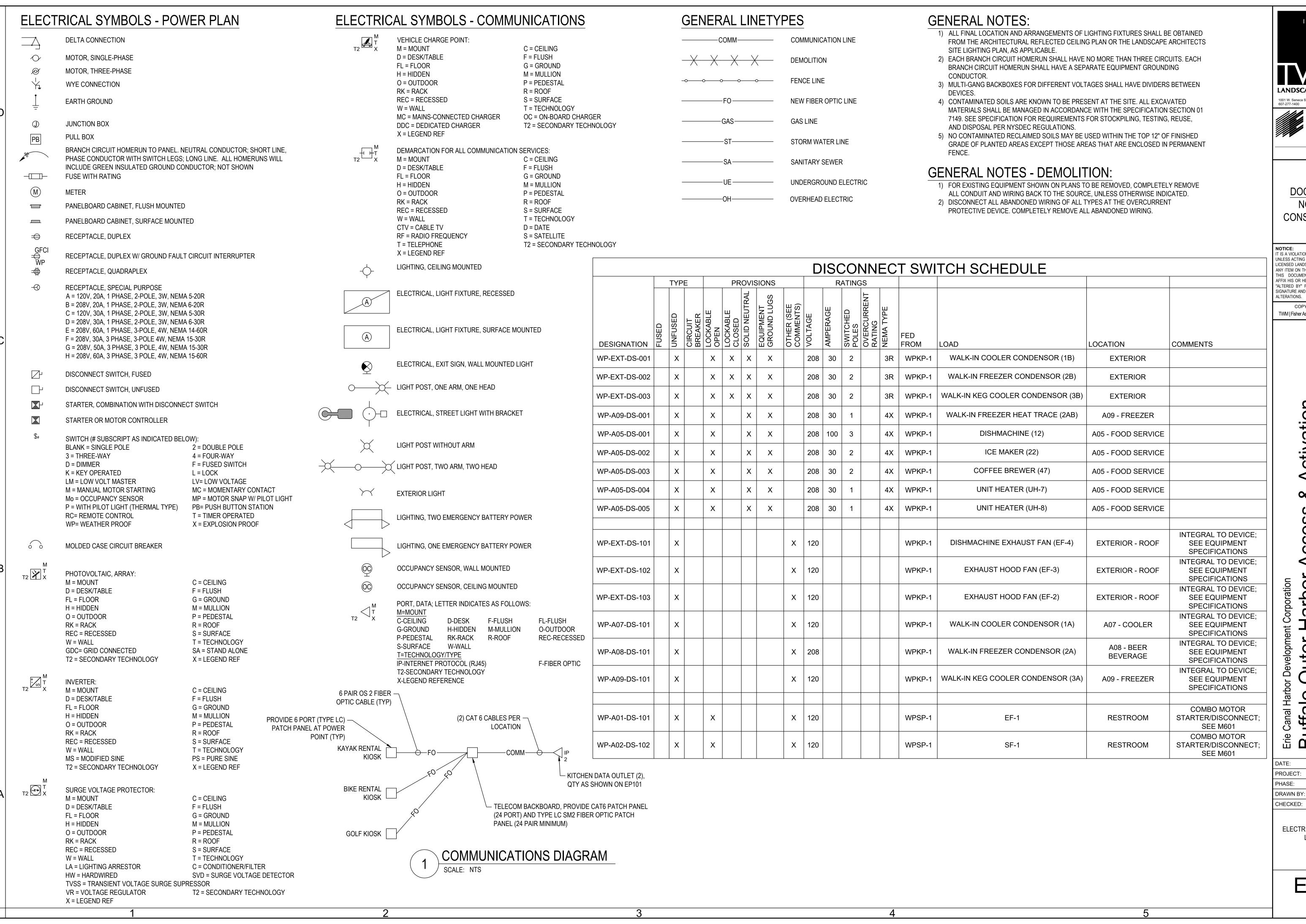
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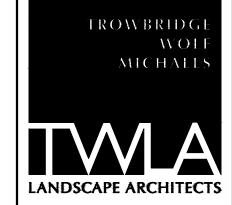
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WILKESON POINTE MECHANICAL SECTIONS

MH301







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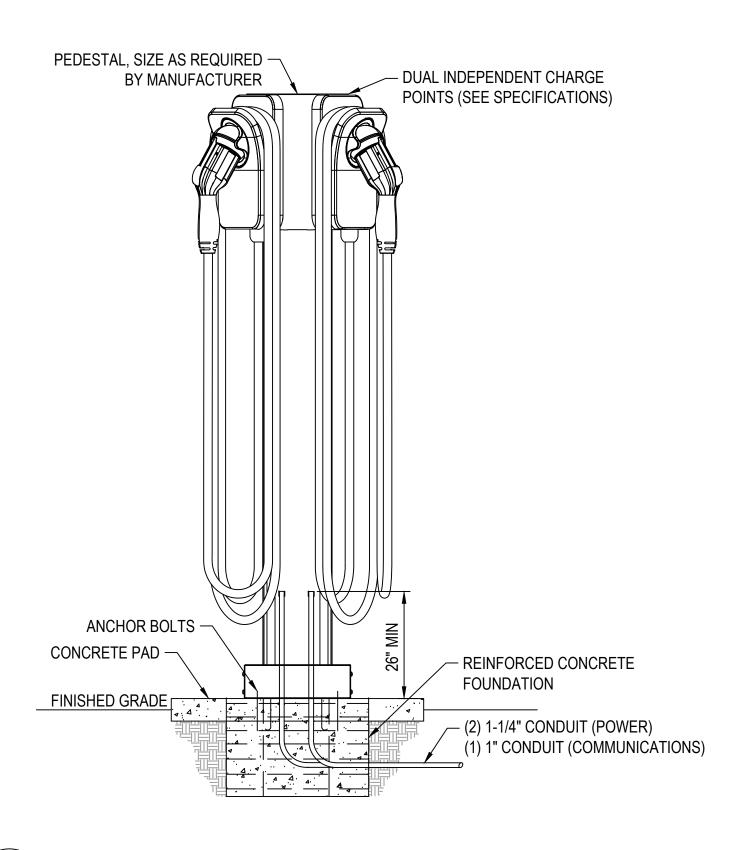
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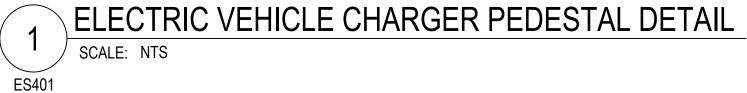
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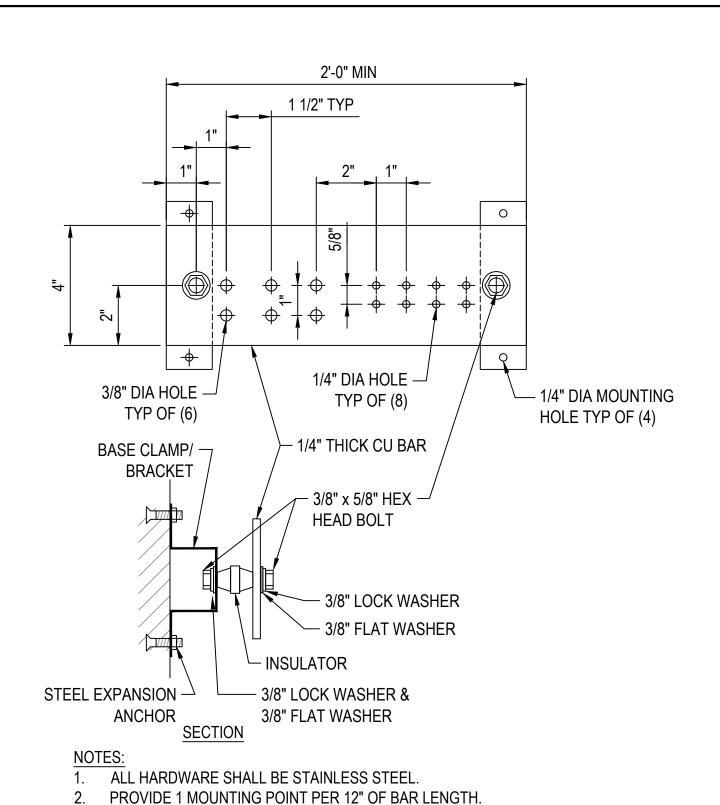
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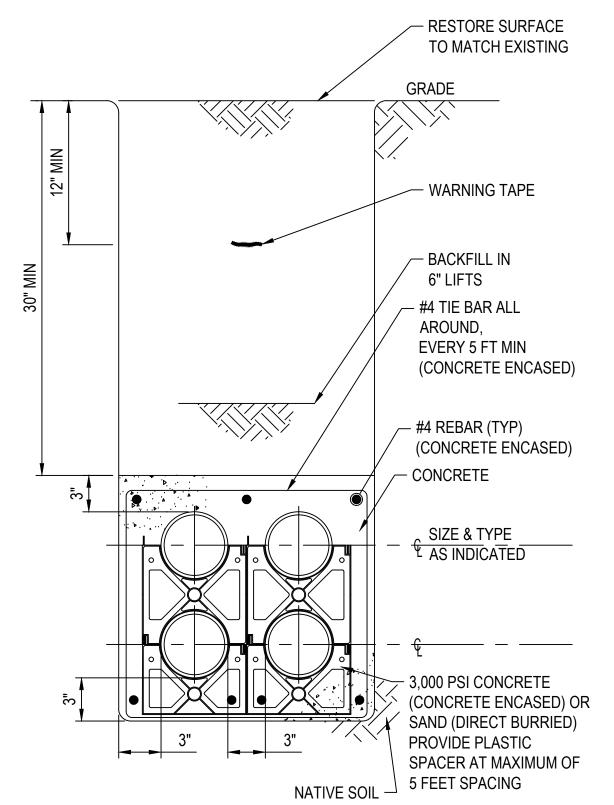
ELECTRICAL NOTES AND LEGENDS



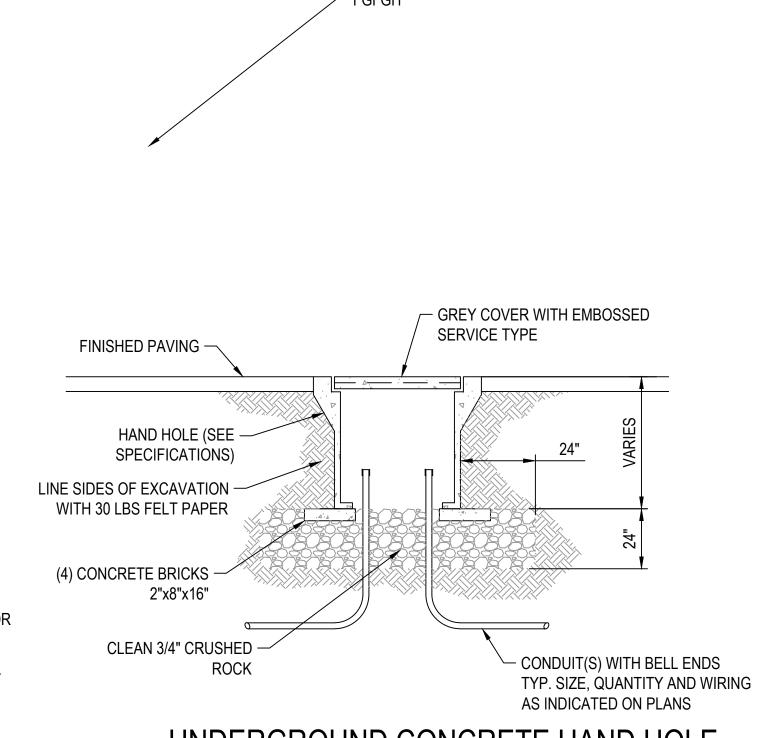




HOLES MAY BE ADDED IF REQUIRED. GROUNDING BAR DETAIL

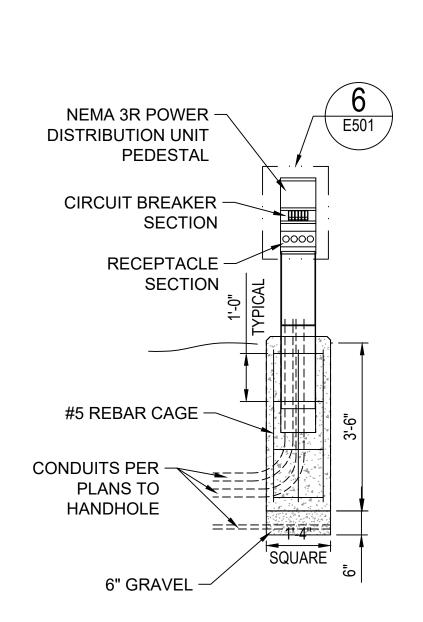


TYPICAL CONDUIT DUCT BANK DETAIL



UNDERGROUND CONCRETE HAND HOLE -PAVED AREAS

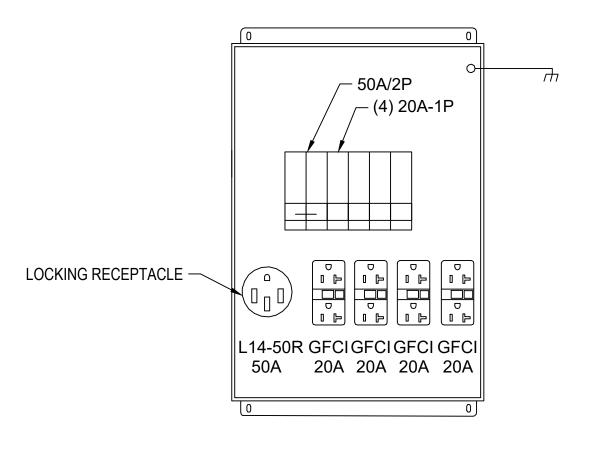
SCALE: NTS



DETAIL NOTES: A. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ADDITIONAL INFORMATION.

PROVIDE #6 GROUND WIRE AND GROUND ROD FOR EACH LOCATION. C. REFER TO PLANS FOR QUANTITY, LOCATION, AND RECEPTACLE TYPES AND QUANTITIES.

VENDOR RECEPTACLE PEDESTAL DETAIL SCALE: NTS ES101

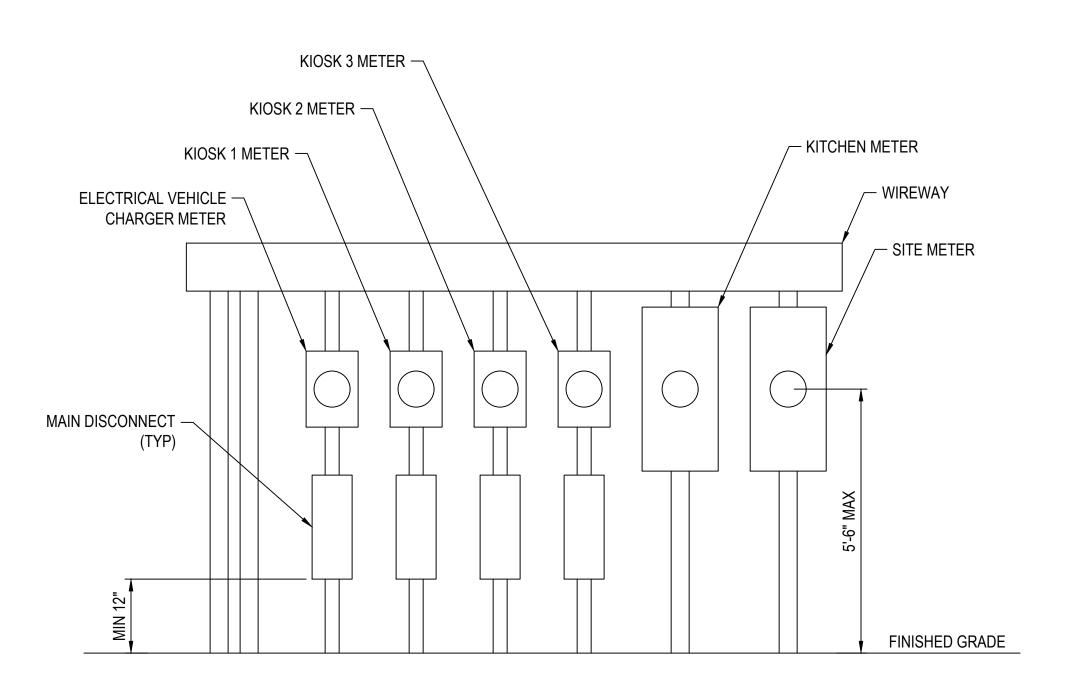


DETAIL NOTES: PROVIDE 120V PHASE POWER DISTRIBUTION BOX FOR VENDOR CONNECTION WITH RECEPTACLES INDICATED. a. PROVIDE UNIT WITH NEMA 3R ENCLOSURE AND

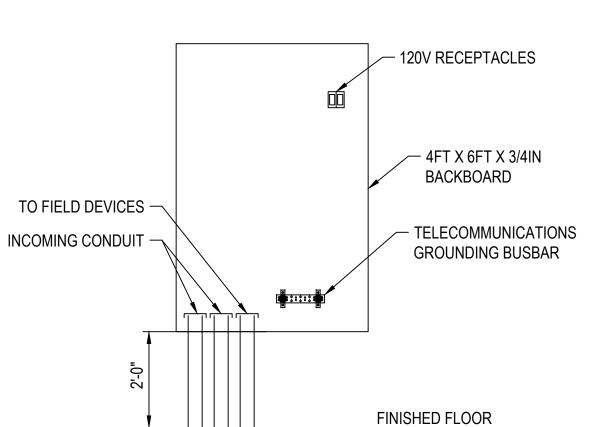
LOCKING 'IN-USE' COVER (NOT SHOWN). B. PROVIDE 208V SINGLE PHASE CIRCUIT TO PANELBOARD INDICATED ON DRAWINGS.

C. MULTIPLE POWER ENCLOSURES ARE TO BE KEYED ALIKE. RETURN ALL KEYS TO OWNER. REFER TO PLANS FOR QUANTITY AND LOCATION.

VENDOR POWER DISTRIBUTION PANEL DETAIL SCALE: NTS



ELECTRICAL SERVICE DETAIL SCALE: NTS



TELECOMMUNICATIONS BACKBOARD DETAIL SCALE: NTS

TROWBRIDGI MICHAELS LANDSCAPE ARCHITECTS 1001 W. Seneca St., Ste. 201 Ithaca, NY 14850 607-277-1400 Fax 607-277-6092

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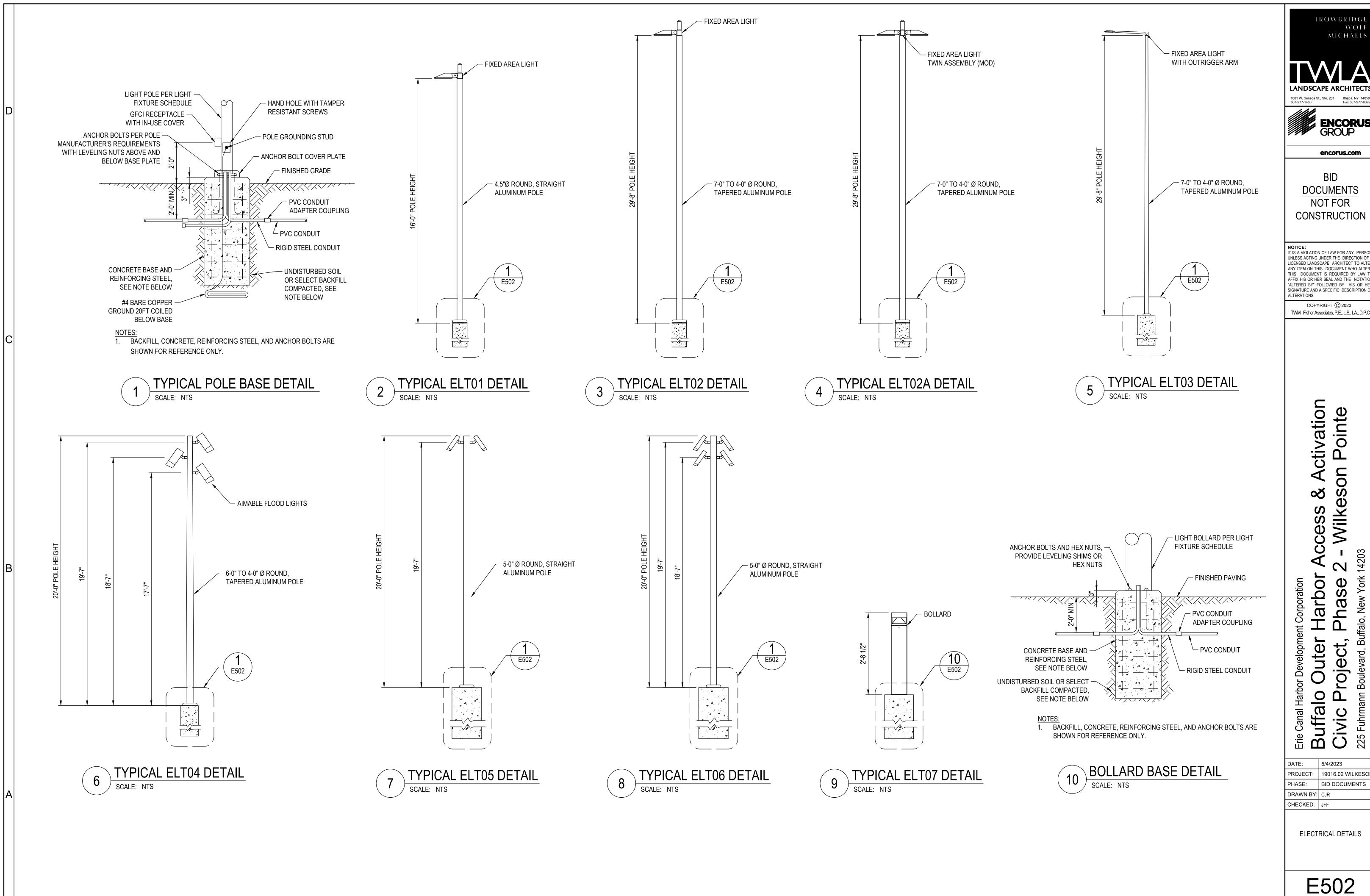
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DATE: 5/4/2023 PROJECT: 19016.02 WILKESON PHASE: BID DOCUMENTS DRAWN BY: CJR CHECKED: JFF

ELECTRICAL DETAILS



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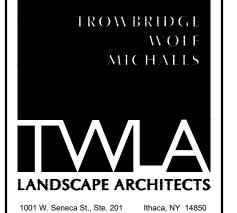
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ılevard, Buffalo, New York

DATE: 5/4/2023 19016.02 WILKESON PROJECT: PHASE: BID DOCUMENTS DRAWN BY: CJR CHECKED: JFF

ELECTRICAL DETAILS

PANFI ·	KITCHEN (WPKP-1)											PANEL: WPSP-1			
/ ((\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	LOCATION: MECHANICAL A13							VOLTS: 120)/208\/		A.I.C RATING: 65KAIC	LOCATION: MECHANICAL A13		VOLTS: 120/208V	A.I.C RATING: 65 KAIC
	SUPPLY FROM: UTILITY							PHASE:			MAINS TYPE: MCB	SUPPLY FROM: UTILITY		PHASE: 3	MAINS TYPE: MCB
	MOUNTING: SURFACE							WIRES:			MAINS RATING: 400A	MOUNTING: SURFACE		WIRES: 4	MAINS RATING: 400A
	ENCLOSURE: TYPE 1							WIINES.	. 4		MCB RATING: 300A	ENCLOSURE: TYPE 1		WINES. 4	MCB RATING: 300A
NOTES:	ENCLOSURE. TIPE I										WICE RATING, 300A	NOTES:			WICH RATING. 300A
СКТ	CIRCUIT DESCRIPTION	TRIP	POLES	<u> </u>	4		В	С	POL	LES 1	RIP CIRCUIT DESCRIPTION CKT	CKT CIRCUIT DESCRIPTION	TRIP POLES A	в с ро	LES TRIP CIRCUIT DESCRIPTION CKT
1	COOLER (A07) DOOR/LTG (1)	20A	1	1800	230					1	20A COOKTOP EXHAUST HOOD (24) 2	EXTERIOR PARKING AND	20A 1 600 300		EXTERIOR BEACH LIGHTS
3	COOLER (A07) EVAP (1A)	20A	1			195	230			1	20A COOKTOP EXHAUST HOOD (24A) 4	SIDEWALK LTS (ELT01,02,02A,03))		(ELT04/05/06/07)
5								1130	700	1	30A COOKTOP EXHAUST HOOD FAN EF-3 (24.1)	3 EXTERIOR BUILDING LIGHTS (DL02)	20A 1	100 2100	1 30A KITCHEN BUILDING UPLIGHTS (L01)
	COOLER (A07) CONDENSER (1B)	20A	2								COOKTOP EXHAUST HOOD FAN EE-2	BACK OF HOUSE (A11, A12, A13)	20A 1	150 1100	1 20A RESTROOM BUILDING LIGHTS 6
7				1130	700					1	30A (24A.1) 8	5 LTG (L02)		130 1100	
9	FREEZER (A09) DOOR/LTG (2)	20A	1			1800	1200			1	20A CURRECCION (25) 10	7 KITCHEN BLDG EXTERIOR RCPT CKT 1	20A 1 720 360		1 20A TELECOM BACKBOARD RCPTS RM A13 8
										-	SUPRESSION (25)	o KITCHEN BLDG EXTERIOR RCPT	20A 1	360 540	1 20A MECHANICAL RM A13 RCPTS 10
11	FREEZER (A09) EVAP (2A)	20A	2					510	1380	1	20A DOUBLE CONVECTION OVEN (32/32A) 12-SHUNT*	CKT 2		300 340	
13			_	510	0					0	0A SPACE FOR SHUNT BRKR ABOVE 14-SHUNT*	11 KITCHEN BLDG EXTERIOR RCPT CKT 3 & A11	20A 1	720 1500	1 20A MECHANICAL RM A13 HEATER 12
15						905	800			1	20A GRIDDLE STND REFRIG (27) AND 16-SHUNT*	12 KITCHEN BLDG EXTERIOR RCPT	20A 1 720 1500		1 20A CUSTODIAL RM A11 HEATER UH-5 14
	FREEZER (A09) CONDENSER (2B)	20A	2			000			_	-	GRIDDLE (20)	CKT 4 & A12			
17	EDEEZED (AOO) HEAT TDACE (2AB)	20A	1	1900	0000			905	0	0	0A SPACE FOR SHUNT BRKR ABOVE 18-SHUNT*	15 KITCHEN BLDG EXTERIOR RCPT CKT 5 & A12	20A 1	540 3500	1 30A CUSTODIAL RM A11 WATER HEATER WH-5
19	FREEZER (A09) HEAT TRACE (2AB)		1	1800	3000	_				2	50A CONVEYOR BELT OVEN (33)	LIGHTING CONTROL PANEL	20A 1	1000 1000	LIGHTING CONTROL PANEL
21	BEER BEVERAGE (A08) DOOR/LTG (3)	20A	1			1800	3000			-	22-SHUNT*			1000	VVF3LF-2
23	BEER BEVERAGE (A08) EVAP (3A)	20A	1					195	0	0	0A SPACE FOR SHUNT BRKR ABOVE 24-SHUNT*	19 TOILET A01 WATER HEATER WH		3500 3500	1 30A TOILET A02 WATER HEATER WH-2 20 1 30A TOILET A04 WATER HEATER WH-4 22
25	BEER BEVERAGE (A08) CONDENSER			720	1900					1	REFRIG SANDWICH UNIT (40) & PIZZA	23 TOILET A03 WATER HEATER WH	20A 1	1500 1500	1 20A TOILET A04 WATER HEATER WH-4 22 1 20A TOILET A02 HEATER UH-2 24
	(3B)	20A	2			700	0450				PREP (40A)	25 TOILET A01 HEATER UH-3	20A 1 1500 1500	1000 1000	1 20A TOILET A02 HEATER UH-2 24 1 20A TOILET A04 HEATER UH-4 26
27	DISHMACHINE WASHHOOD/EF-4					720	2150			2	30A UNDER SHELF HEAT STRIPS (44)	TOILET A01 AND EXTERIOR		720 720	TOILET A02 AND EXTERIOR
29	(9/9.1)	20A	1					530	2150	-	30	RECPTS	20A 1	720 720	1 20A RECPTS 28
31				6425	980					1	20A REFRIG SANDWICH UNIT (40) - COLD 32*	TOILET A03 AND EXTERIOR RECPTS	20A 1	720 720	1 20A TOILET A04 AND EXTERIOR RECPTS 30
	DICLIMA OLUME (40)		_	J-12.0	330					•	PREP		20A 1 720 450		1 20A TOILET VENTILATION EF-1 AND 32
33	DISHMACHINE (12)	70A	3			6425	1405			1	20A REACH-IN COOLER (18A) & PRINT 34	31 SITE RCPTS CKT #1		540 510	SF-1
35								6425 16	665		36	33 SITE RCPTS CKT #2	20A 1	540 540	1 20A ROOF RECEPTACLES 34
37*	REACH-IN FREEZER (23) AND	20A	1	1536						2	20A COFFEE MAKER (47)	VENDOR OUTLET #1	70A 2 4500 4500	4500 4500	2 70A VENDOR OUTLET #2 36
	COOLER (18)	20/1	'	1000	1665							39	4500 4500	4500 4500	38
39	ICE MAKER (22)	20A	2			990	2000	000	0000	2	30A SOFT SERVE MACHINE (57)	VENDOR OUTLET #3	70A 2	4500 4500	2 70A EVENT TENT OUTLET 42
41	POS EQUIPMENT COUNTER 1							990	2000		42*	43 SITE RCPTS CKT #3	20A 1 900 540	1000 1000	1 20A SITE RCPTS CKT #4 44
43	(18/18A)	20A	1	1920	1440					1	20A GOURMET ICE (48) 44	45 SITE RCPTS CKT #5	20A 1	360 540	1 20A SITE RCPTS CKT #6 46
15	REACH-IN COOLER (18A) & PRINT	20A	1			1225	565			1	20A ICE CREAM DIPPING CAB (49) AND 46	47		1900	1 20A SPARE 48
	(59) - PIZZA	20/				1220	300			•	RCPT	WATER METER ENCLOSURE	30A 2 1900		1 20A SPARE 50
47*	REACH-IN COOLER (18) - COLD PREP	20A	1					625	1200	1	20A DRINK MIXER (52) AND COUNTER RECPTS 48	51 SPARE	20A 1		1 20A SPARE 52
49	PREP/WAREWASHING RCPTS	20A	1	540	385					1	20A UNIT HEATER UH-7 50	53 SPARE	20A 1		1 30A SPARE 54
51	DRY STORAGE (A10) RCPTS	20A	1			540	385			1	20A UNIT HEATER UH-8 52	55			1 30A SPARE 56
53	SOUTH WALL AND CUSTODIAL (A06)	20A	1					540	1920	1	POS EQUIPMENT COUNTER 2	57 SPD	20A 3		2 70A SPARE 58
	RCPTS							0.0	1020	•	(18/18A) 34	59			60
55	DRY STORAGE AND CUST CLOS LTG (L02)	20A	1	115	360					1	20A PIZZA PREP CONVENIENCE RCPT 56		TOTAL LOAD: 27710.00 VA	26560.00 VA 29810.00 VA	
57	FUTURE MENU SIGNAGE JB's (QTY 3)	204	1			1000	1000			1	20A FUTURE MENU SIGNAGE JB's (QTY 2) 58	LEGEND:	TOTAL AMP: 230.92 A	221.33 A 248.42 A	
	TOTORE MERO CICIONOL 023 (QTT 0)	ZUA	'			1000	1000			•	` '	LOAD CLASSIFICATION	CONNECTED LOAD DEMA	ND FACTOR ESTIMATED DEMA	ND PANEL TOTALS
59	KITCHEN LIGHTING DL01A/L03	20A	1					820	1000	1	20A LIGHTING CONTROL PANEL (WPKLP-1) 60		99111129122 29713 321111		.,
61	SPARE	20A	1	0	720					1	20A SOUTH WALL RECPTS 62				84.0
63	SPARE	20A	1		_	0	0				20A SPARE 64	1			TOTAL CONN. LOAD: KVA
65	WH-6 AND WH-7	20A	1					360	1900		20A BEVERAGE POWER-PAK (55) 66	<u> </u>			TOTAL EST. DEMAND:
7-SHUNT	SPARE	20A	1	0	0					1	20A SPARE 68				
9-SHUNT	SPACE FOR SHUNT BRKR ABOVE	0A	0			0	0			2	30A SPARE 70	NOTES:			
71	SPARE	20A	2					0	0	_	72		FROM UTILITY		
73				0	0					2	50A SPARE 74-SHUNT		SERVICE		
75	SPARE	30A	1			0	0				76-SHUNT	300 KVA, 4W, 3Ø ———	SIZE & TYPE AS REQUIRED		
77	SPARE	30A	1					0	0	0	0A SPACE FOR SHUNT BRKR ABOVE 78-SHUNT	TRANSFORMER	(12) 75 KCMIL		
79	SPD	204	9							2	70A SDARE 82	(SUPPLIED BY UTILITY)	(3) 400 KCMIL GND IN (3) 4" CONDUITS		
81 83	JOF D	20A	3							J	70A SPARE 82 84	(3)	#4 AWG		
UU		TOT/	L AL LOAD:	27876.	.00 VA	28335	5.00 VA	26945.00	O VA		04	(1) #8 AV	WG GND		
			TAL AMP:				.13 A	224.54				(4) 350 KCMIL	ONDUIT M	(3) #3/0 AWG (1) #4 AWG GND	
GEND:					<u>-</u>		<u>-</u>					(1) #1/0 AWG GND		IN 3" CONDUIT	
	SIFICATION	COI	NNECTE	D LOAD	DEN	MAND FAC	TOR	ESTIMAT	TED DEMANI	D	PANEL TOTALS		208V 1P	_ WPEV	CPP-1
CEPTAC	_E							0.0	00 KVA			70A 65 K		120/20	8V 1P
/AC								0.0	00 KVA		TOTAL CONN. LOAD: 83.16 KVA	WPSP-1 WPSP-1		200A 80A-2P 200A 65 KA	
ATER HE	ATING		3.60 K\	V A		100.0%		3.6	60 KVA		TOTAL EST. DEMAND:	120/208V 120/208V 3P, 4W 3P, 4W	TO BIKE TO KAYAK T	O GOLF MOUN	IT IN MECHANICAL EQUIPMENT ROOM
TERIOR L			1.81 K\						00 KVA			(3) #1/0 I	MOOK / MOOK /	KIOSK (3) #2 AWG	דון וחואס "כ ואו חואי
	LIGHTING		0.12 K\						00 KVA			(1) #4 AWG IN 2" CONI			GND IN 2" CONDUIT
IGNAGE	INT = PROVINE SHI INT TOID DOCAVED	* - 050	0.00 K\					2.0	00 KVA			_	(3) #4 AWG — (3) #1 AWG —	TO ELECTRIC VEHIC	LE
01E0: 5H	JNT = PROVIDE SHUNT TRIP BREAKER	GF(JI I YPE b	DREAKEK								` ,	#8 AWG GND (1) #4 AWG GND 2" CONDUIT IN 2" CONDUIT	CHARGERS	
														ΓΙΛΙ	
												(1 	E-LINE DIAGRAM DE	I IAL	
												SCAL	E: NTS		
	1							2			3		4		5



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PROJECT: 19016.02 WILKESON

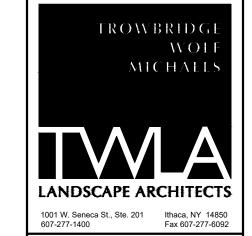
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ELECTRICAL PANEL SCHEDULES

TYPE	DESCRIPTION	MOUNTING	LENS AND DIFFUSER	VOLTAGE	WATTAGE	LAMPS	MANUFACTURER AND CATALOG NUMBER (BASIS OF DESIGN)	COMMENTS
ELT01	POLE: 4.5" DIA, 16FT HT, ROUND, STRAIGHT, ALUMINUM, BLACK POLE. WITH TENON MOUNT AND ANCHOR BOLT COVERS. FIXTURE: FIXED TYPE 3, POLE MOUNTED, FULL CUTOFF AREA LIGHT, BLACK. MOUNTED ON SLIPFITTER. DIE-CAST ALLUMINUM ALLOY HOUSING	POLE	CLEAR SAFETY GLASS LENS, TYPE 3 ASYM WIDE BEAM DISTRIBUTION	UNIVERSAL (120-277)	20W	2090LM; 3000K; 80+CRI; LED	LUMINAIRE: BEGA-77025-K3-BLK POLE: VALMONT R-16004545***-TENON MOUNTING (3" O.D.)-DBL-OPTIONS	FIXTURE TO BE MOUNTED 16 FT ABOVE FINISHED GRADE. ***SELECT TO MATCH SITE CONDITIONS PROVIDE POLE WITH GFCI RECEPTACLE WITH IN-USE COVER 0-10V DIMMING.
ELT02	POLE: 7" TO 4" DIA, 30FT HT, ROUND, TAPERED, ALUMINUM, BLACK POLE. WITH TENON MOUNT AND ANCHOR BOLT COVERS. FIXTURE: FIXED TYPE 3, POLE MOUNTED FULL CUTOFF AREA LIGHT, BLACK. MOUNTED ON SLIPFITTER. DIE-CAST ALLUMINUM ALLOY HOUSING	POLE	CLEAR SAFETY GLASS LENS, TYPE 3 ASYM DISTRIBUTION	UNIVERSAL (120-277)	61W	6700LM; 3000K; 80+CRI; LED	LUMINAIRE: BEGA-84407-K3-BLK POLE: VALMONT R- +2908407***-TENON MOUNTING (3" O.D.)-DBL-OPTIONS	FIXTURE TO BE MOUNTED 30FT ABOVE FINISHED GRADE. ***SELECT TO MATCH SITE CONDITIONS PROVIDE POLE WITH GFCI RECEPTACLE WITH IN-USE COVER 0-10V DIMMING.
ELT02A	POLE: 7" TO 4" DIA, 30FT HT, ROUND, TAPERED ALUMINUM, BLACK POLE. WITH TENON MOUNT AND ANCHOR BOLT COVERS. FIXTURE: FIXED TYPE 3, DUAL HEAD, POLE MOUNTED, FULL CUTOFF AREA LIGHT, BLACK. MOUNTED ON SLIPFITTER. DIE-CAST ALLUMINUM ALLOY HOUSING	POLE	CLEAR SAFETY GLASS LENS, TYPE 3 ASYM DISTRIBUTION	UNIVERSAL (120-277)	FIXT1: 20W FIXT2: 61W	FIXT 1: 2100LM; 3000K; 80+CRI; LED FIXT 2: 6700LM; 3000K; 80+CRI; LED	LUMINAIRE ASSEMBLY: BEGA-98014-MOD-BLK FIXT 1: BEGA-77025-K3-BLK FIXT 2: BEGA-84407-K3-BLK POLE: VALMONT R- +2908407***-TENON MOUNTING (3" O.D.)-DBL-OPTIONS	DUAL HEAD FIXTURE. FIXTURE TO BE MOUNTED 30FT ABOVE FINISHED GRADE. FIXTURE 1 AIM TOWARDS DRIVEWAY, FIXTURE 2 AIM TOWARD SIDEWALK. ***SELECT TO MATCH SITE CONDITIONS PROVIDE POLE WITH GFCI RECEPTACLE WITH IN-USE COVER 0-10V DIMMING.
ELT03	POLE: 7" TO 4" DIA, 30FT HT, ROUND, TAPERED, ALUMINUM, BLACK POLE. WITH TENON MOUNT AND ANCHOR BOLT COVERS. FIXTURE: FIXED TYPE 2 ASYMMETRICAL FLAT BEAM OPTIC, FULL CUTOFF, BLACK. MOUNTED ON SLIPFITTER. DIE-CAST ALLUMINUM ALLOY HOUSING. WITH OUTRIGGER ARM.	POLE	CLEAR SAFETY GLASS LENS, TYPE 2 DISTRIBUTION	UNIVERSAL (120-277)	35W	4550LM; 3000K; 80+CRI; LED	LUMINAIRE: BEGA-77718-K3-BLK POLE: VALMONT R- +2908407***-TENON MOUNTING (3" O.D.)-DBL-OPTIONS	FIXTURE TO BE MOUNTED 30FT ABOVE FINISHED GRADE. ***SELECT TO MATCH SITE CONDITIONS PROVIDE POLE WITH GFCI RECEPTACLE WITH IN-USE COVER 0-10V DIMMING.
ELT04	POLE: 6" TO 4" DIA, 20FT HT, ROUND, TAPERED, ALUMINUM, BLACK POLE. WITH POLE CAP AND ANCHOR BOLT COVERS. FIXTURE: TRIPLE HEAD, 52 DEG WIDE FLOOD, POLE MOUNTED, AIMABLE FIXTURE. WITH PIVOTING ARM FOR FORWARD/BACK ADJUSTMENT. ALLUMINUM ALLOY HOUSING.	POLE	CLEAR TEMPERED GLASS LENS	UNIVERSAL (120-277)	45W TOTAL	1600LM; 2700K; 80+CRI; LED	LUMINAIRE: LUMINIS SCOPO SERIES: SC655-L1L15-R55-120V-STD. FIN-K27-VS-SL-PDA6 ACCESSORIES: VS VISOR, SL SOLITE LENS POLE: VALMONT R-19084060***-DRILL MOUNTDBL-OPTIONS	TRIPLE HEAD FIXTURE. FIXTURES TO BE MOUNTED AT 19FT-7IN, 18FT-7IN, AND 17FT-7IN ABOVE FINISHED GRADE. ***SELECT TO MATCH SITE CONDITIONS PROVIDE POLE WITH GFCI RECEPTACLE WITH IN-USE COVER 0-10V DIMMING. AIM AS DIRECTED BY LANDSCAPE ARCHITECT.
ELT05	POLE: 5" DIA, 20FT HT, ROUND, STRAIGHT, ALUMINUM, BLACK POLE. WITH POLE CAP AND ANCHOR BOLT COVERS. FIXTURE: DUAL HEAD, POLE MOUNTED, AIMABLE FIXTURE. WITH PIVOTING ARM FOR FORWARD/BACK ADJUSTMENT. ALLUMINUM ALLOY HOUSING.	POLE	CLEAR TEMPERED GLASS LENS	120V	26W TOTAL	920LM; 2700K; 80+CRI; LED	LUMINAIRE: LUMINIS SCOPO SERIES: SC355-L1L10-R40-120V-STD. FIN-K27-VS-SL ACCESSORIES: VS VISOR, SL SOLITE LENS POLE: VALMONT R-20005050***-DRILL MOUNTDBL-OPTIONS	DOUBLE HEAD FIXTURE. FIXTURE TO BE MOUNTED 20FT ABOVE FINISHED GRADE. ***SELECT TO MATCH SITE CONDITIONS PROVIDE POLE WITH GFCI RECEPTACLE WITH IN-USE COVER 0-10V DIMMING. AIM AS DIRECTED BY LANDSCAPE ARCHITECT.
ELT06	POLE: 5" DIA, 20FT HT, ROUND, STRAIGHT, ALUMINUM, BLACK POLE. WITH POLE CAP AND ANCHOR BOLT COVERS. FIXTURE: QUAD HEAD, POLE MOUNTED, AIMABLE FIXTURE. WITH PIVOTING ARM FOR FORWARD/BACK ADJUSTMENT. ALLUMINUM ALLOY HOUSING.	POLE	CLEAR TEMPERED GLASS LENS	UNIVERSAL (120-277)	52W TOTAL	920LM; 2700K; 80+CRI; LED	LUMINAIRE: LUMINIS SCOPO SERIES: SC355-L1L10-R40-120V-STD. FIN-K27-VS-SL ACCESSORIES: VS VISOR, SL SOLITE LENS POLE: VALMONT R-20005050***-DRILL MOUNTDBL-OPTIONS	QUAD HEAD FIXTURE. TWO FIXTURES TO BE MOUNTED 19FT-7IN, TWO FIXTURES TO BE MOUNTED 18FT-7IN ABOVE FINISHED GRADE. ***SELECT TO MATCH SITE CONDITIONS PROVIDE POLE WITH GFCI RECEPTACLE WITH IN-USE COVER 0-10V DIMMING. AIM AS DIRECTED BY LANDSCAPE ARCHITECT.
ELT07	36IN TALL SQUARE (6IN X 6IN) BOLLARD FIXTURE, BLACK. SHIELDED 360° OPTICS.	BOLLARD	CLEAR SAFETY GLASS LENS	UNIVERSAL (120-277)	21W	390LM; 2700K; 80+CRI; LED	LUMINAIRE: BEGA-84690-K27-BLK BOLLARD TUBE: BEGA-84002-BLK	0-10V DIMMING
DL01A	3" ADJUSTABLE SPOT, 35 DEG, LOW PROFILE IC HOUSING	RECESSED	ADUSTABLE BEVEL; BLACK SPECULAR REFLECTOR; FLANGELESS WHITE TRIM	UNIVERSAL (120-277)	20W	2000LM; 3000K; 80+CRI; LED	ACULUX HOUSING: AX3 LPA G4 20LM 30K 80CRI 35D GZ1 MVOLT ICAT TRIM: 3ABV BS WHFM WET FMA3/087	0-10V DIMMING; WET LOCATION CONTRACTOR TO VERIFY CEILING THICKNESS PRIOR TO ORDERING. AIM AS DIRECTED BY ARCHITECT.
DL01B	3" ADJUSTABLE SPOT, 35 DEG, LOW PROFILE IC HOUSING	RECESSED	ADUSTABLE BEVEL; BLACK SPECULAR REFLECTOR; FLANGELESS WHITE TRIM	UNIVERSAL (120-277)	7W	800LM; 3000K; 80+CRI; LED	ACULUX HOUSING: AX3 LPA G4 08LM 30K 80CRI 35D GZ1 MVOLT ICAT TRIM: 3ABV BS WHFM WET FMA3/087	0-10V DIMMING; WET LOCATION CONTRACTOR TO VERIFY CEILING THICKNESS PRIOR TO ORDERING. AIM AS DIRECTED BY ARCHITECT.
DL02	3" ADJUSTABLE SPOT, 50 DEG, NEW CONSTRUCTION HOUSING, WITH HEXCELL LOUVER	RECESSED	ADUSTABLE BEVEL; BLACK SPECULAR REFLECTOR; FLANGELESS WHITE TRIM	UNIVERSAL (120-277)	7W	800LM; 3000K; 90+CRI; LED	ACULUX HOUSING: AX3 A G4 08LM 30K 90CRI 50D GZ1 MVOLT TRIM: 3ABV BS WHFM WET FMA3/087 ACCESSORIES: HCLBL 200	0-10V DIMMING; WET LOCATION CONTRACTOR TO VERIFY CEILING THICKNESS PRIOR TO ORDERING. AIM AS DIRECTED BY ARCHITECT.
L01	2.25" X 2.25" MULLION MOUNT LINEAR WITH ASYMETRIC UPLIGHT, WHITE, 670LM/FT, LENGTH AS INDICATED	SURFACE/ LEDGE	ASYMMETRIC; RIGID DIFFUSE DUST COVER	UNIVERSAL (120-277)	9.6W/FT	670LM/FT; 3000K; 80+CRI; LED	ALIGHT ACL4 M*** LH 30 _ U N D M5* W D	0-10V DIMMING. ***SEE DRAWINGS FOR FIXTURE LENGTH. CONTRACTOR TO VERIFY EXACT LENGTH. *MULLION BLOCKS OR BOTTOM MOUNT AS REQUIRED.
L02	2.5" X 3.2" SURFACE MOUNT LINEAR DIFFUSE DISTRIBUTION, WHITE	SURFACE	FLAT DIFFUSE ACRYLIC LENS	UNIVERSAL (120-277)	28W	2700LM; 3000K; 90+CRI; LED	CORONET LS2-4-30-MED-UNV-DB-W-SM-FL	0-10V DIMMING
L03	1.18" X 0.8" RECESSED DIRECT VIEW, LINEAR, 100DEG, BLACK, WITH MILKY LENS, 10FT-9.5IN	RECESSED	MILKY LENS	UNIVERSAL (120-277)	60W	4970LM; 2700K; 90+CRI; LED	GENLED ACOLYTE AR20 CHAR20-M-BK-C-RB-90-SWS265-5.0-27-FA DRIVER: DRVW249610P	0-10V DIMMING. APPROX 10' 9.5". CONTRACTOR TO VERIFY EXACT LENGTH. PROVIDE WITH 0-10V WATERPROOF DRIVER. MOUNT DRIVER IN WALL IN KITCHEN ABOVE WINDOW IN SUITABLE ENCLOSURE.
L04	2.36" X 3.19" COVE SURFACE MOUNT GRAZER 20 DEGREE WITH LOUVER; ANODIZED SILVER FINISH	RECESSED ALCOVE	CLEAR UV PROTECTED PMMA LENS WITH TEMPERED GLASS COVER	UNIVERSAL (120-277)	42W (TOTAL)	4760LM; 2700K; 80+CRI; LED	GENLED ACOLYTE ARMOR SERIES QTY 2 - MINI 80 AC 12 27 20 MINILOUV313 QTY 2 - MINI 80 AC 16 27 20 MINILOUV410	0-10V DIMMING. MOUNT IN RECESSED ALCOVE. 4' 8". BASIS OF DESIGN CONSISTS OF 4 INTERCONNECTED FIXTURES. AIM AS DIRECTED BY ARCHITECT.
EM1	DUAL HEAD LED EMERGENCY LIGHT	WALL		UNIVERSAL (120-277)	0.6W	DUAL HEAD LED	LITHONIA EU2C M6	
EX1	LED EXIT SIGN WITH GREEN EXIT LETTERING AND DUAL HEAD EMERGENCY LIGHTS	WALL		UNIVERSAL (120-277)	3.5W	LED	LITHONIA ECRG SQ M6	





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cess & Activation Wilkeson Pointe Erie Canal Harbor Development Corporation

Buffalo Outer Harbor Acce

Civic Project, Phase 2 - W

225 Fuhrmann Boulevard, Buffalo, New York 14203

DATE: 5/4/2023 PROJECT: 19016.02 WILKESON PHASE: BID DOCUMENTS DRAWN BY: CJR
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ELECTRICAL LIGHTING FIXTURE SCHEDULE

E602

LIGHTING CONTROL SCHEDULE - BELL SLIP **LUMINAIRE** LOCATION NOTES 1,2,3 PATH LIGHTING ELT01/02A X 1,2,3 ELT02/02A ROAD/PARKING LIGHTING 1,2,3 ELT03 PLAZA LIGHTING X X X 1,2,3 ELT04 PLAZA LIGHTING X X X 1,2,3 ELT05/06 PLAZA LIGHTING X 1,2,3 ELT07 PLAZA LIGHTING X X XX 1,2,3 L01 INTERIOR UP LIGHTING XX X X INTERIOR LIGHTING, BACK OF HOUSE X 1,2,3 SERVING COUNTER LIGHTING X X 1,2,3 **BUILDING EXTERIOR - WALLWASH** Χ Χ INTERIOR LIGHTING, RESTROOMS 1,2,3 DL01A Χ X X 1,2,3 INTERIOR LIGHTING, KITCHEN DL01A Χ BUILDING EXTERIOR, DOWN LIGHTING 1,2,3 Χ 1,2,3 BUILDING EXTERIOR, DOWN LIGHTING COOLER/FREEZER LIGHTING RESTROOM EXHAUST AND SUPPLY EF-1/SF-1 NOTES:

REMOTE **INTERFACE** CAT6 -

- 1. SYSTEM SHALL BE CAPABLE OF ALLOWING THE USER TO SELECT BETWEEN DIFFERENT PRE-DETERMINED SCENES. ALLOW THE USER TO MANUAL ADJUST THE LIGHTING LEVEL OF EACH LIGHTING CIRCUIT, ALLOW THE USER TO MANUALLY TURN ON/OFF EACH LIGHTING CIRCUIT INDIVIDUALLY, ALLOW THE USER TO CREATE NEW SCENES, AND ALLOW THE USER TO MODIFY OR DELETE EXISTING SCENES BOTH AT THE CONTROL PANEL LOCATION AND REMOTELY.
- 2. FIXTURE SHALL BE CONFIGURABLE TO UTILIZE ANY COMBINATION OF THE CONTROL SOURCES INDICATED.
- 3. CONTRACTOR SHALL ADJUST DEFAULT LIGHTING SETPOINTS IN COORDINATION WITH OWNER AND ENGINEER/ARCHITECT/LANDSCAPE ARCHITECT

LIGHTING CONTROL SEQUENCE OF OPERATION

BUILDING INTERIOR, UP LIGHTING (L01)

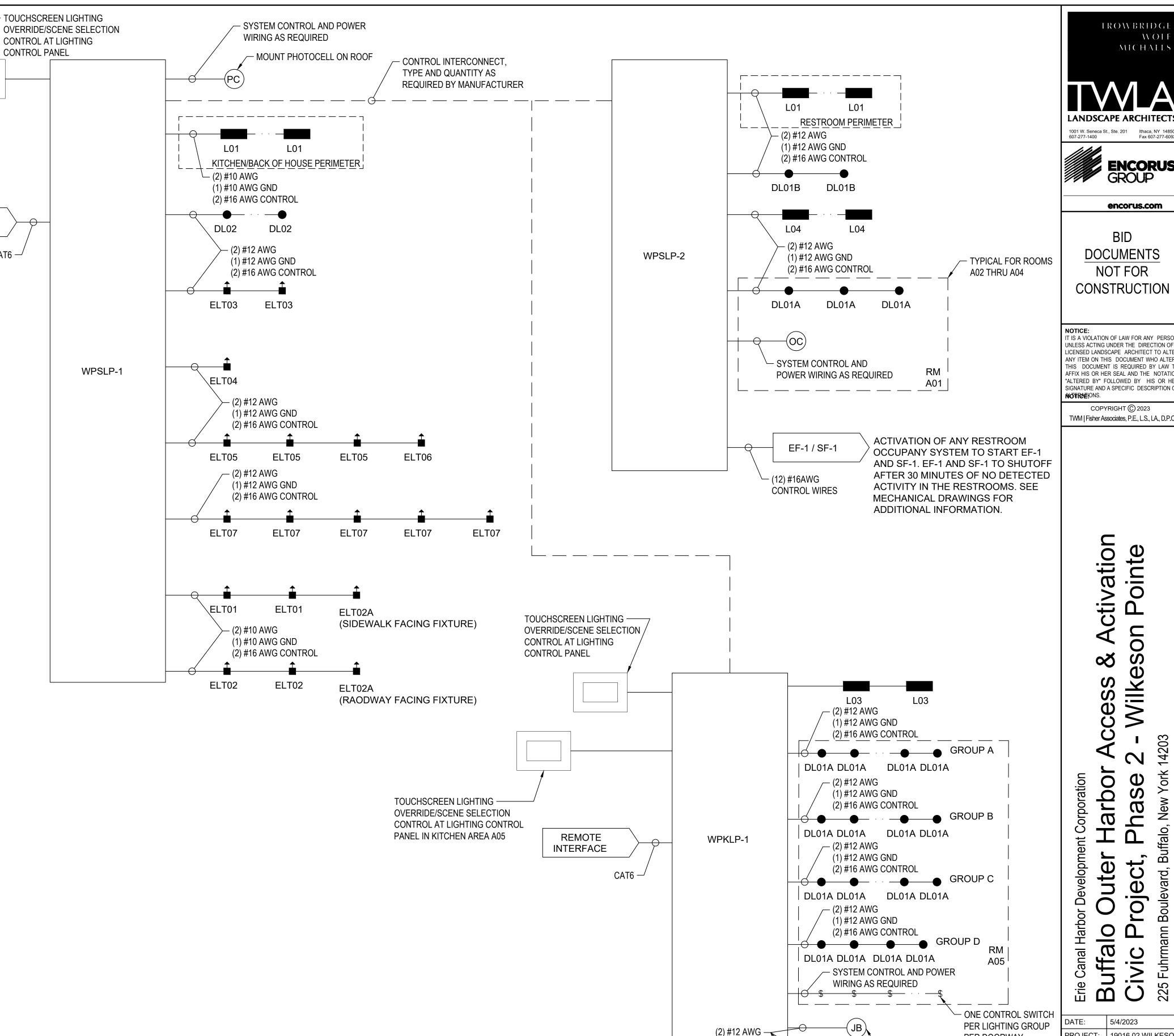
THE BUILDING INTERIOR UP LIGHTING SHALL OPERATE 24/7. DURING DAYLIGHT HOURS THE FIXTURES SHALL OPERATE AT THEIR DAYLIGHT HOURS SET POINT, FROM SUNSET TO MIDNIGHT THE FIXTURES SHALL OPERATE AT THEIR NIGHTTIME LIGHTING LEVEL SET POINT, FROM MIDNIGHT TO SUNRISE THE FIXTURES SHALL OPERATE AT THEIR LATE-NIGHT LIGHTING LEVEL SET POINT. THE OWNER SHALL BE PROVIDED WITH THE CAPABILITY TO PROGRAM DAYS THAT THE LIGHTS WILL NOT OPERATE, TO MODIFY (BOTH ON A TEMPORARY BASIS AND ON A DEFAULT BASIS) THE LIGHTING LEVEL SET POINTS BOTH INDIVIDUALLY AND THROUGH THE USE OF SELECTABLE SCENES, AND TO MANUALLY OVERRIDE THE OPERATIONS OF THE LIGHTS FROM A USER-FRIENDLY CONTROL STATION. MANUAL OVERRIDES OF THE SYSTEM SHALL AUTOMATICALLY TIME-OUT AFTER 24 HOURS AND THE SYSTEM SHALL RESUME ITS PROGRAMMED OPERATION.

BUILDING INTERIOR, DOWN LIGHTING (DL01A, L02)

THE BUILDING INTERIOR DOWN LIGHTING SHALL OPERATE BY ACTIVATION OF THE ROOM'S OCCUPANCY SENSOR OR ACTIVATION OF THE ROOM'S MANUAL OVERRIDE SWITCH (AS APPLICABLE). IN THE RESTROOMS, THE MANUAL OVERRIDE SHALL TIME-OUT AFTER 30 MINUTES OF NO DETECTED ACTIVITY. THE GAMES STORAGE, DRY STORAGE, AND CUSTODIAL CLOSETS SHALL BE CONTROLLED BY A NON-SYSTEM OCCUPANCY SENSOR (AUTOMATIC ON/OFF) WITH A MANUAL ON/OFF SWITCH. FOOD SERVICE PREP AREA, COOLERS, AND FREEZER LIGHTING SHALL BE MANUAL ON/OFF CONTROL ONLY.

BUILDING EXTERIOR AND SITE LIGHTING

THE BUILDING EXTERIOR AND SITE LIGHTING SHALL BE CONFIGURED TO OPERATE BY SITE PHOTOCELL WITH TIMECLOCK BACKUP. UPON ACTIVATION BY SITE PHOTOCELL OR TIMECLOCK, THE FIXTURES SHALL OPERATE AT THEIR NIGHTTIME LIGHTING LEVEL SET POINT. FROM MIDNIGHT TO DAWN THE FIXTURES SHALL OPERATE AT THEIR LATE-NIGHT LIGHTING LEVEL SET POINT. THE OWNER SHALL BE PROVIDED WITH THE CAPABILITY TO PROGRAM DAYS THAT THE LIGHTS WILL NOT OPERATE, TO MODIFY (BOTH ON A TEMPORARY BASIS AND ON A DEFAULT BASIS) THE LIGHTING LEVEL SET POINTS BOTH INDIVIDUALLY AND THROUGH THE USE OF SELECTABLE SCENES, AND TO MANUALLY OVERRIDE THE OPERATIONS OF THE LIGHTS FROM A USER-FRIENDLY CONTROL STATION. MANUAL OVERRIDES OF THE SYSTEM SHALL AUTOMATICALLY TIME-OUT AFTER 24 HOURS AND THE SYSTEM SHALL RESUME ITS PROGRAMMED OPERATION







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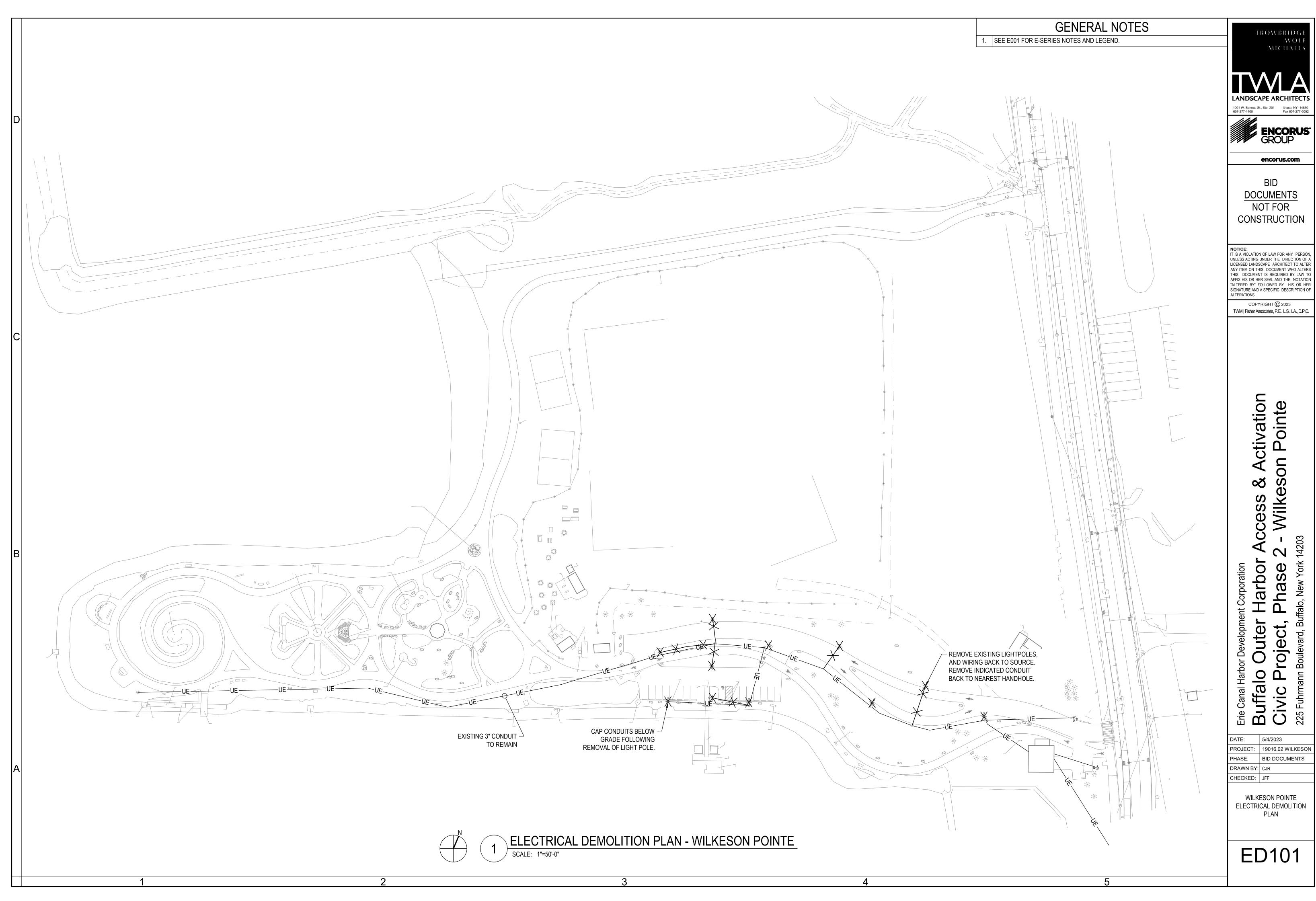
SERVING WINDOWS

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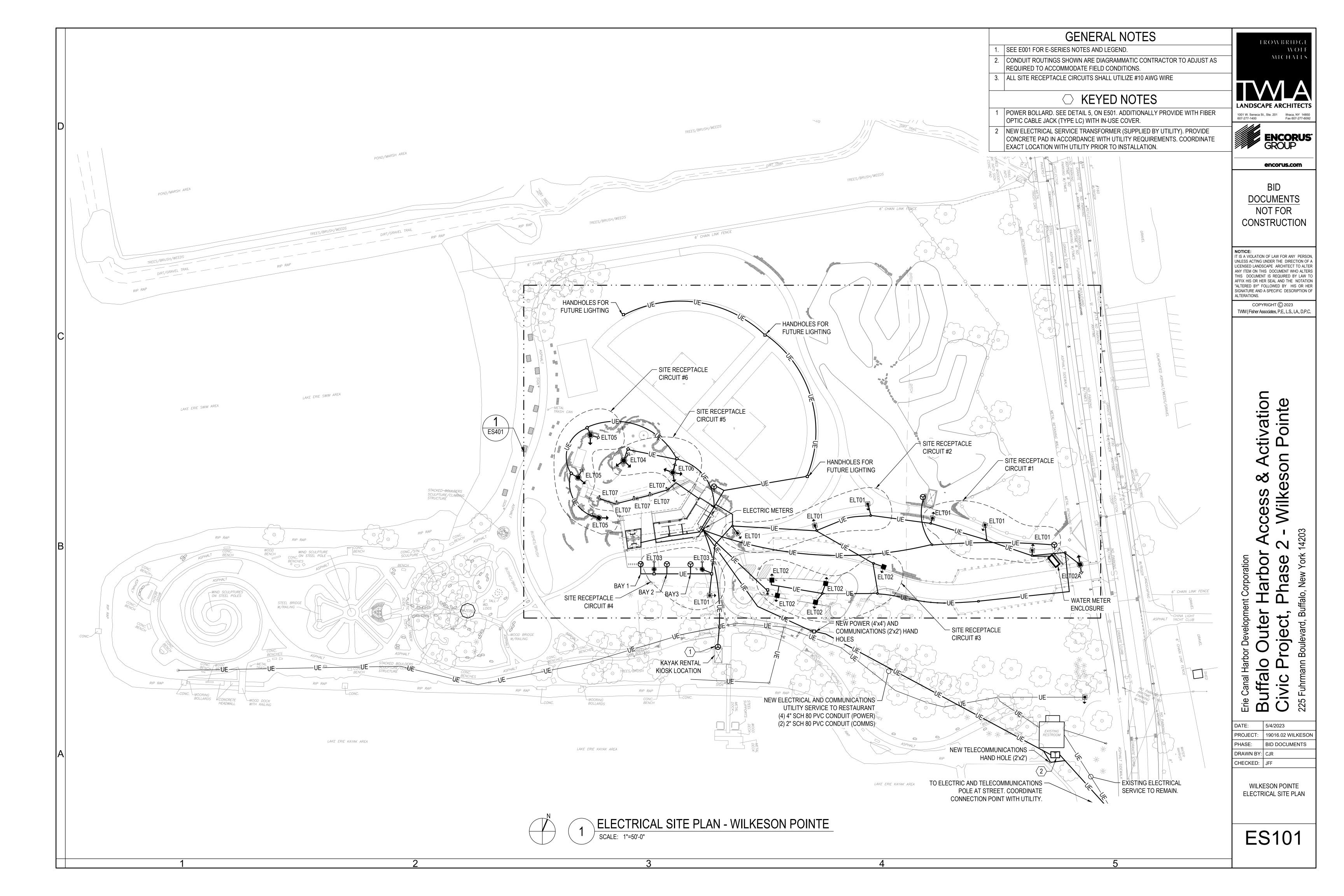
(1) #12 AWG GND

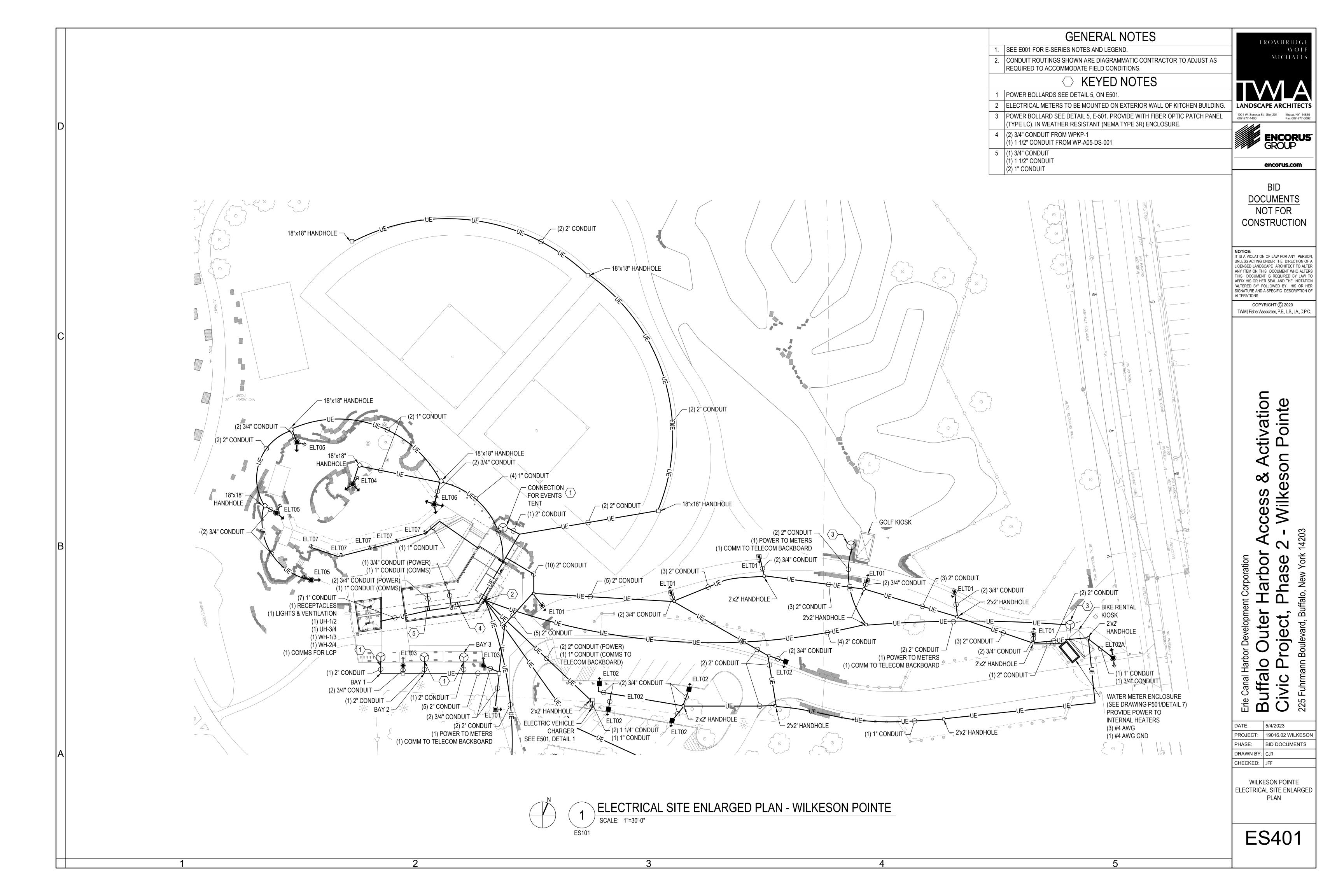
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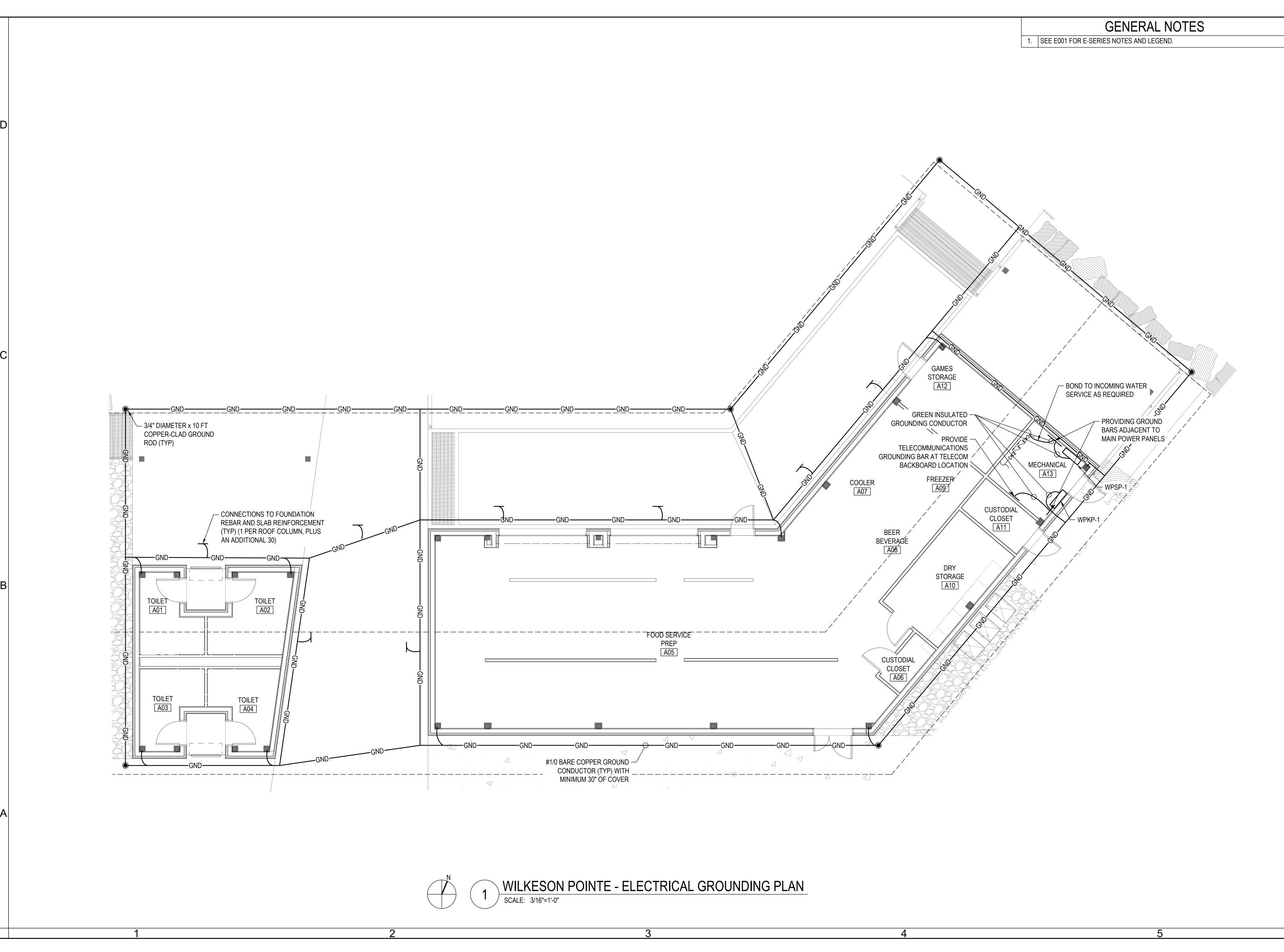
WILKESON POINTE **ELECTRICAL LIGHTING** DIAGRAM



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TROWBRIDGE MICHAELS LANDSCAPE ARCHITECTS

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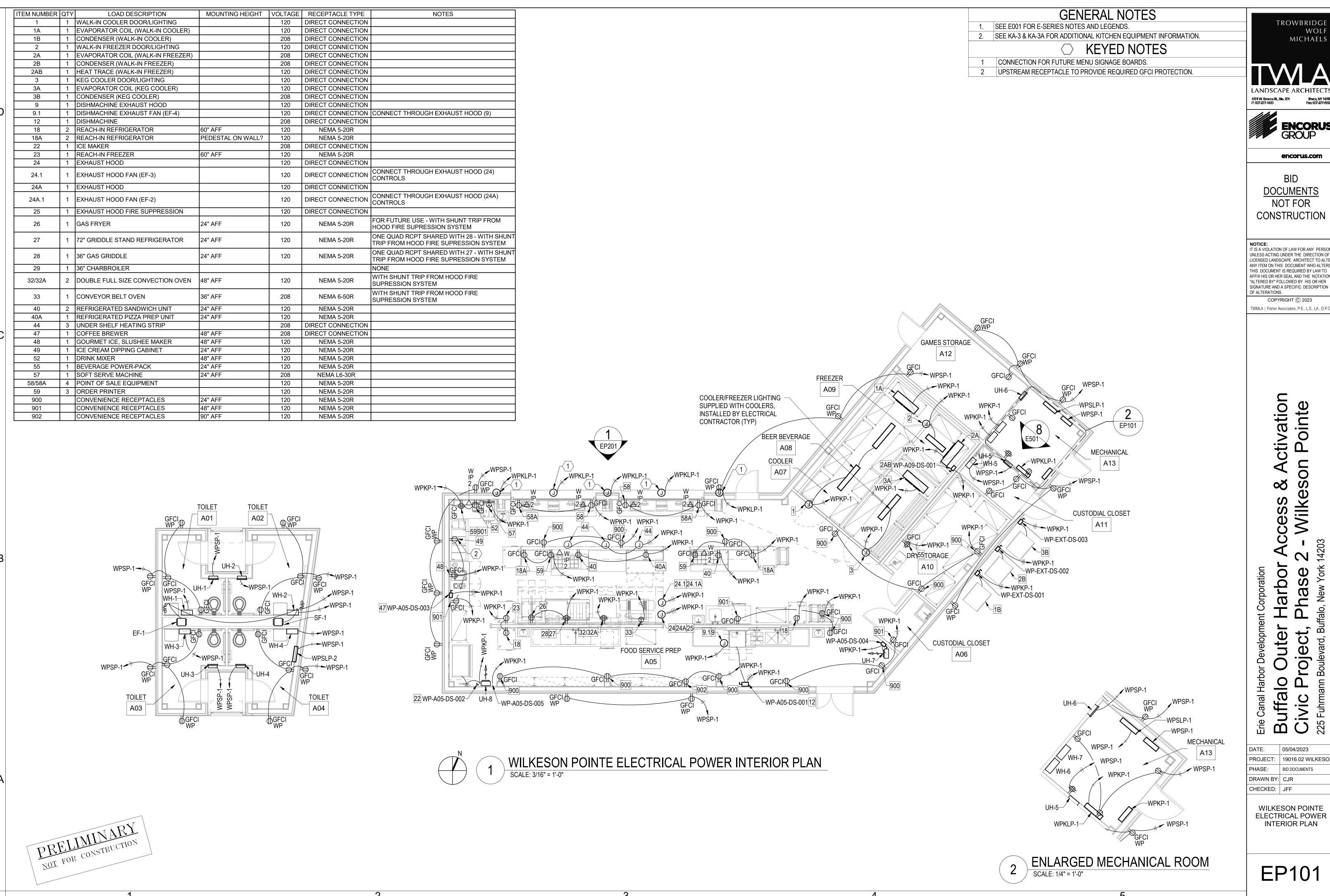
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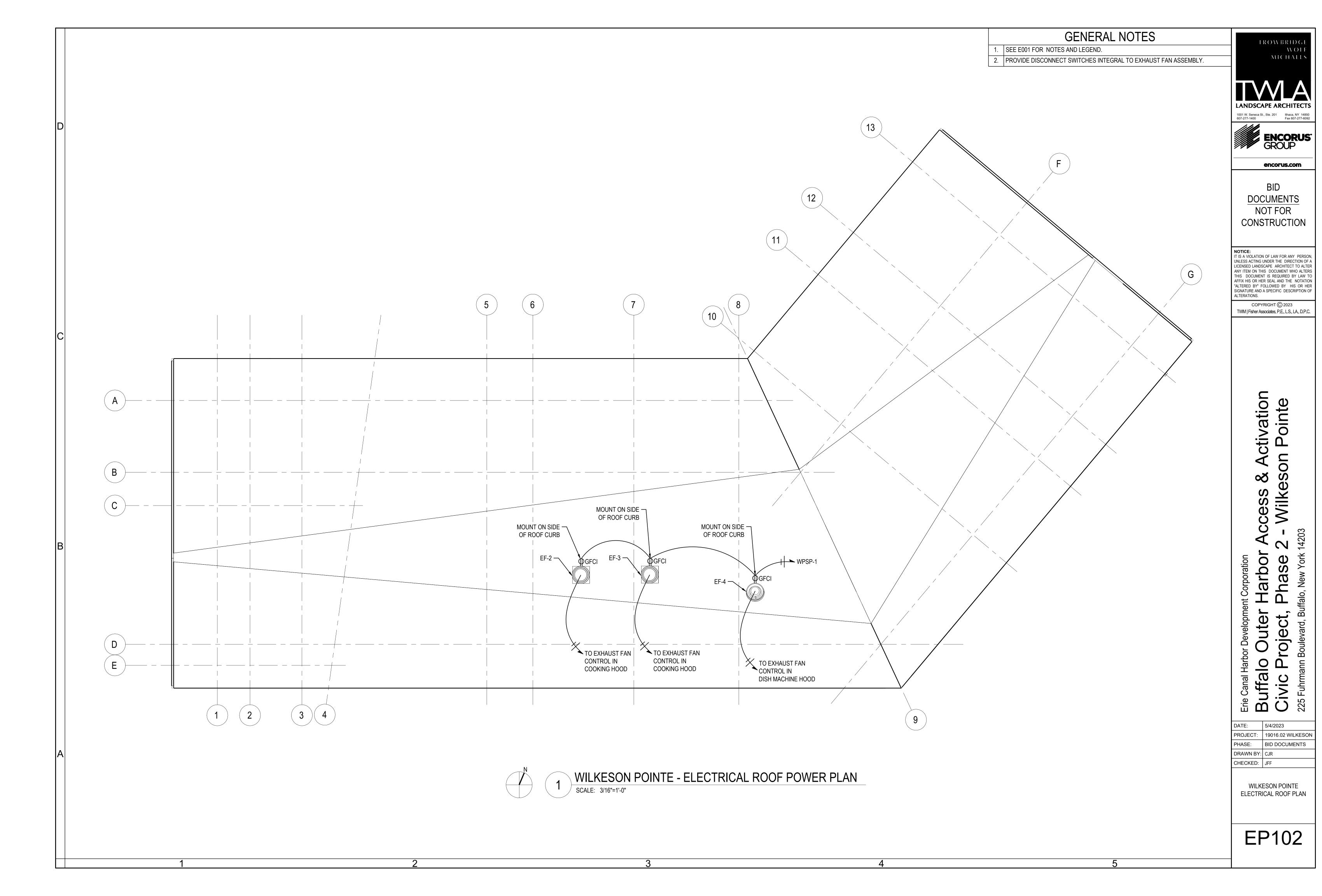
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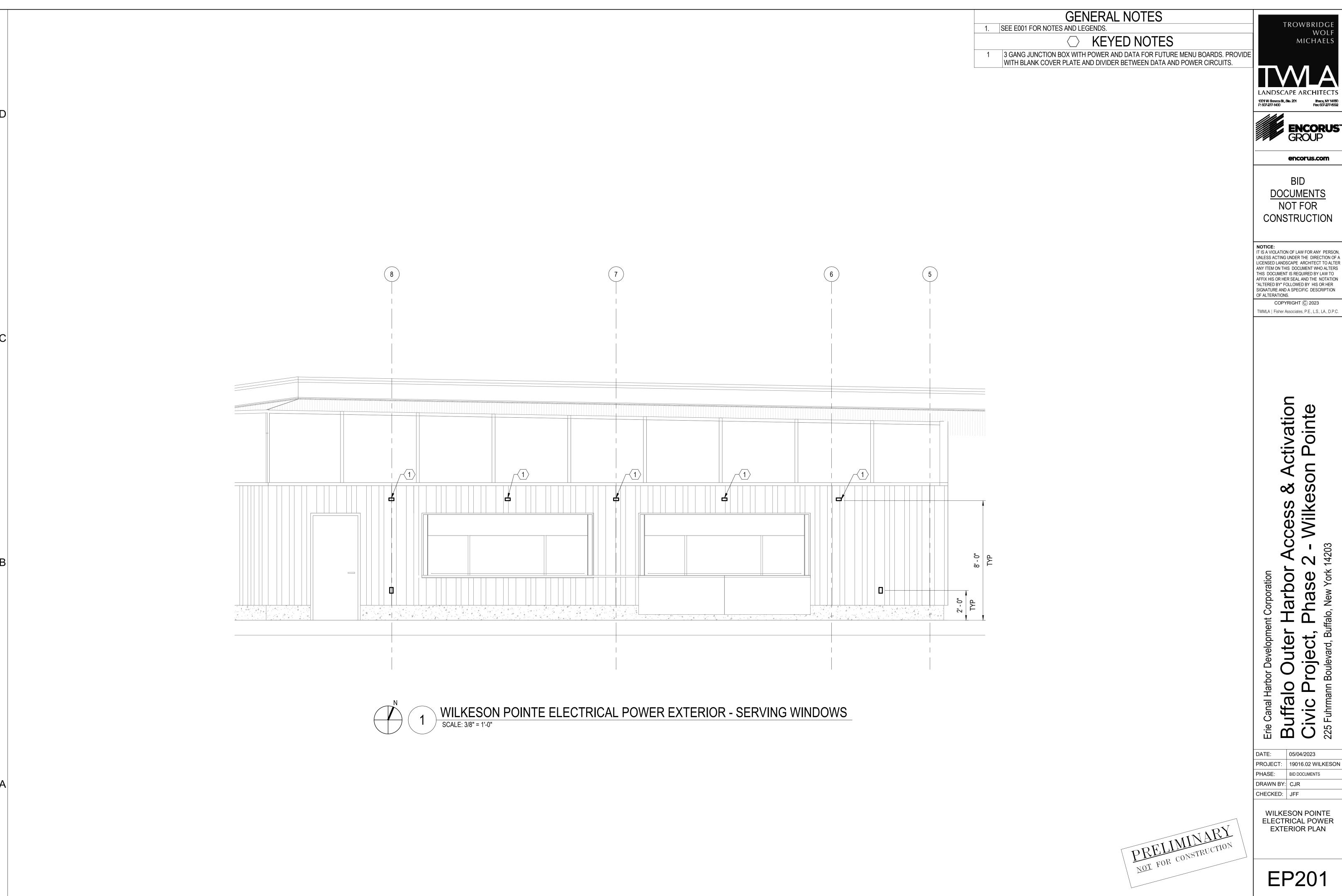
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WILKESON POINTE ELECTRICAL POWER INTERIOR PLAN

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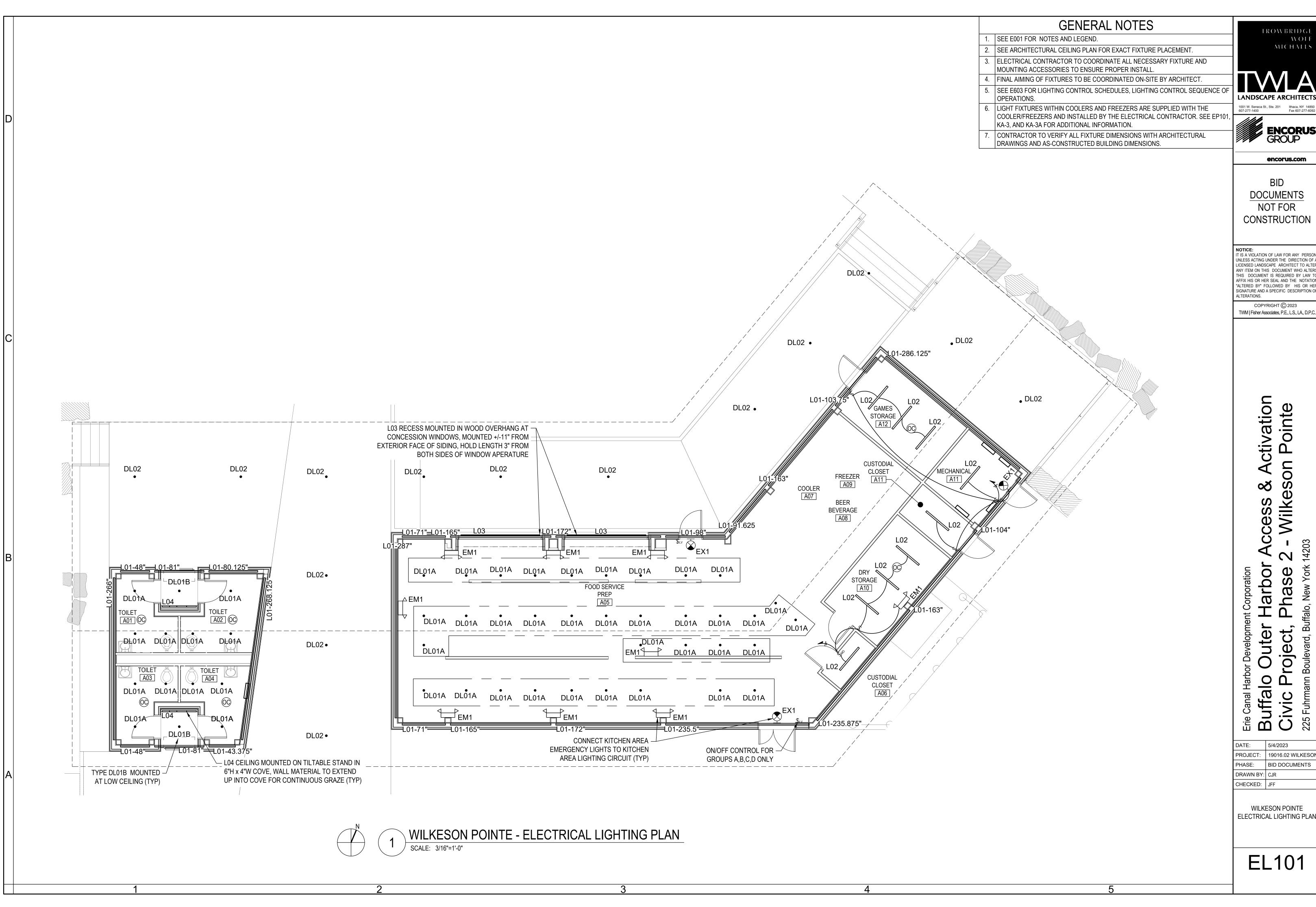
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WILKESON POINTE ELECTRICAL POWER EXTERIOR PLAN

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