

CITY OF ROCKLAND DOWNTOWN WATERFRONT UPLAND IMPROVEMENTS AT HARBOR AND BUOY PARKS



SITE LOCATION MAP
SCALE: 1" = 200'



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PRELIMINARY ENGINEERING DRAWINGS (NOT FOR CONSTRUCTION)

OCTOBER 6, 2023

CIVIL ENGINEER



135 ROCKLAND STREET ROCKPORT, MAINE 04856 PHONE: (207) 236-6757 WWW.LANDMARKMAINE.COM

ELECTRICAL ENGINEER



ARCHITECT

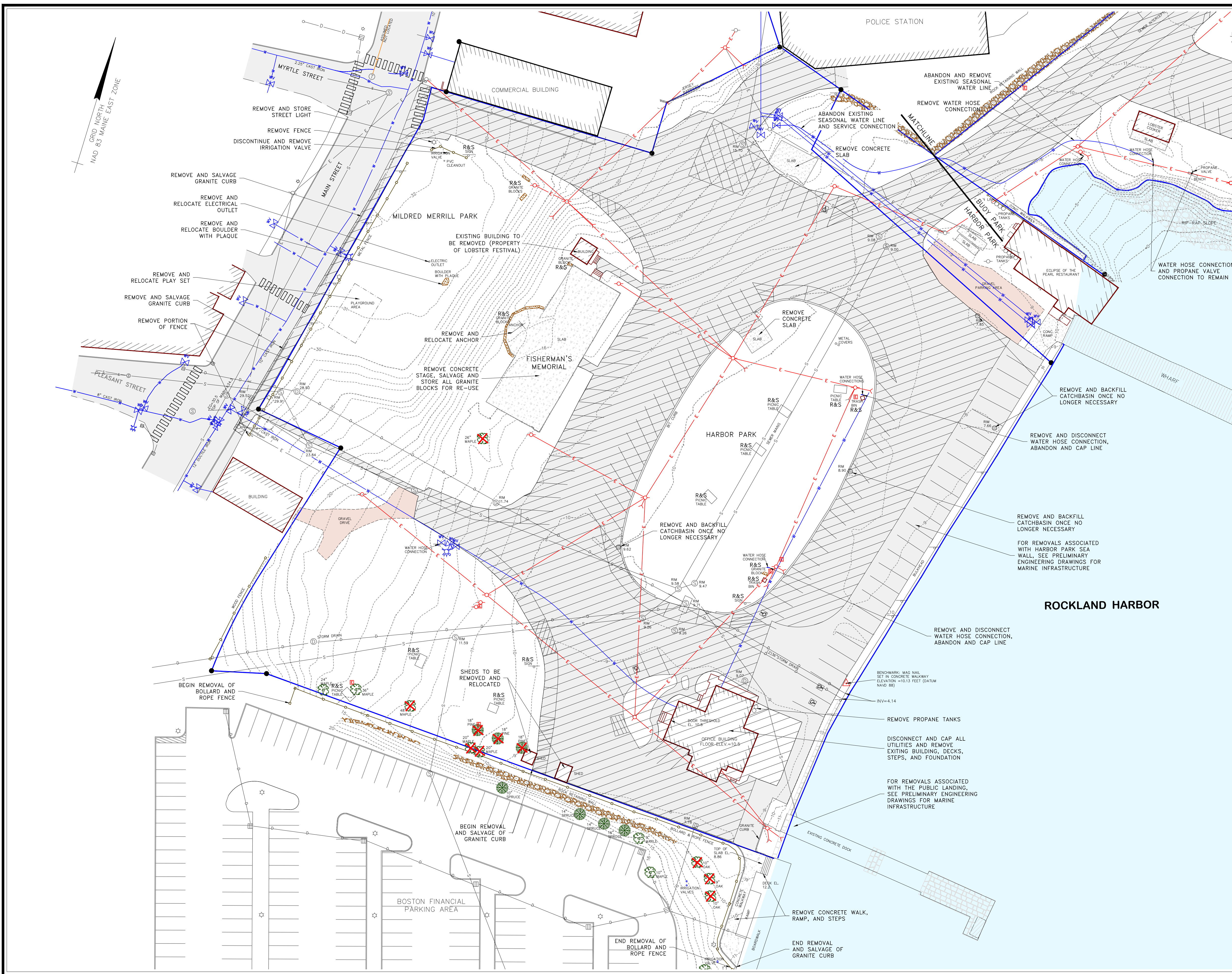


LANDSCAPE ARCHITECT



29 Bridge Street - Topsham, ME 04086
Tel. 207-450-9700 - www.rslla.com

SHEET DESIGNATION:
C0



LEGEND:

- IRON PIN FOUND
- EXISTING UTILITY POLE
- EXISTING GUY ANCHOR
- CONIFEROUS TREE
- DECIDUOUS TREE
- EXISTING DRAINAGE
- EXISTING OVERHEAD UTILITY
- EXISTING WATER MAIN
- EXISTING SEWER MAIN
- ⊕ EXISTING WATER VALVE
- ⊕ EXISTING HYDRANT
- ⊕ EXISTING SEWER MANHOLE
- ⊕ EXISTING CATCH BASIN
- ⊕ EXISTING CATCHBASIN
- ⊕ EXISTING ELECTRIC PANEL
- 12 --- EXISTING CONTOUR
- BOUNDARY LINE (BEAL)
- REMOVE EX. OVERHEAD UTILITY
- REMOVE EX. UTILITY POLE
- ⊕ REMOVE EX. ELECTRIC PANEL
- R&S REMOVE AND STORE
- REMOVE CONIFEROUS TREE
- REMOVE DECIDUOUS TREE
- ▨ PAVEMENT REMOVAL

REMOVAL NOTES:

- UNLESS OTHERWISE NOTED, REMOVED ITEMS SHALL BE PROPERLY DISPOSED OF IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS.
- CONTRACTOR IS RESPONSIBLE FOR ALL TRANSPORTATION AND DISPOSAL FEES AND PERMITS.
- FOR ALL ITEMS LABELED R&S (REMOVE & STORE), CONTRACTOR TO COORDINATE WITH THE CITY OF ROCKLAND HARBOR MASTER FOR STORAGE LOCATION.
- CONTRACTOR TO INSTALL EROSION AND SEDIMENT CONTROL MEASURES IF SOIL DISTURBANCE OCCURS DURING REMOVAL.

SURVEYOR'S NOTES:

PROPERTY LINES IN SOLID BLUE ARE BASED UPON "REAL ESTATE BOUNDARY SURVEY FOR THE CITY OF ROCKLAND" BY F.E. BEAL SURVEYING COMPANY, DATED DECEMBER 2010, RECORDED IN PLAN CABINET 21 SHEET 117.

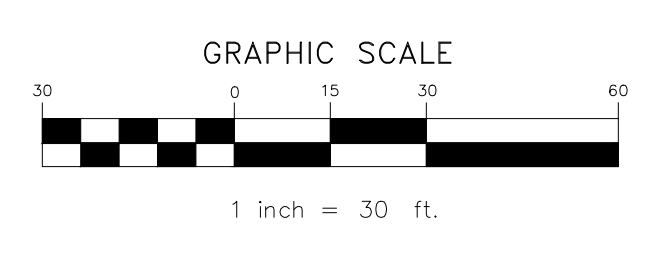
CONTOUR INTERVAL IS 1 FOOT. VERTICAL DATUM IS NAVD 1988.

ORIENTATION IS REFERENCED TO GRID NORTH, NAD 83 DATUM, MAINE STATE PLANE EAST ZONE.

LANDMARK CORPORATION
SURVEYORS & ENGINEERS

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**EXISTING CONDITIONS AND REMOVAL PLAN
HARBOR PARK**

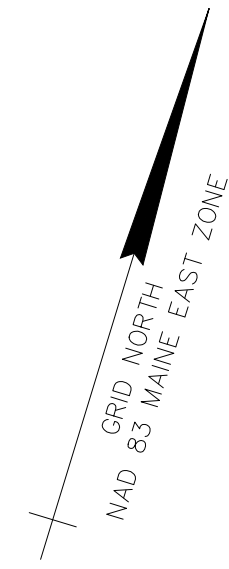
MICHAEL J. SABATINI
9053
LICENSED PROFESSIONAL ENGINEER
10/6/23

CITY OF ROCKLAND
DOWNTOWN WATERFRONT UPLAND IMPROVEMENTS
AT HARBOR AND BUOY PARKS
ROCKLAND, MAINE
KNOX COUNTY

SCALE: **1"=30'**

JOB No: **16-012**

SHEET DESIGNATION:
C1



LEGEND:

- IRON PIN FOUND
- EXISTING UTILITY POLE
- ⋈ EXISTING GUY ANCHOR
- CONIFEROUS TREE
- DECIDUOUS TREE
- EXISTING DRAINAGE
- EXISTING OVERHEAD UTILITY
- EXISTING WATER MAIN
- EXISTING SEWER MAIN
- ⋈ EXISTING WATER VALVE
- ⋈ EXISTING HYDRANT
- ⊙ EXISTING SEWER MANHOLE
- ⊞ EXISTING CATCH BASIN
- ⊞ EXISTING CATCHBASIN
- EXISTING PLANTING BED
- ⊞ EXISTING ELECTRIC PANEL
- - - EXISTING CONTOUR
- BOUNDARY LINE (BEAL)
- REMOVE EX. OVERHEAD UTILITY
- REMOVE EX. UTILITY POLE
- ⊞ REMOVE EX. ELECTRIC PANEL
- R&S REMOVE AND STORE
- REMOVE CONIFEROUS TREE
- REMOVE DECIDUOUS TREE
- ▨ PAVEMENT REMOVAL

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4. CONTRACTOR TO INSTALL EROSION AND SEDIMENT CONTROL MEASURES IF SOIL DISTURBANCE OCCURS DURING REMOVAL.

SURVEYOR'S NOTES:

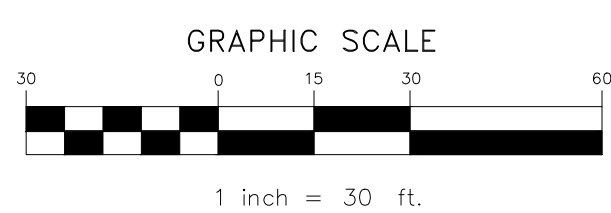
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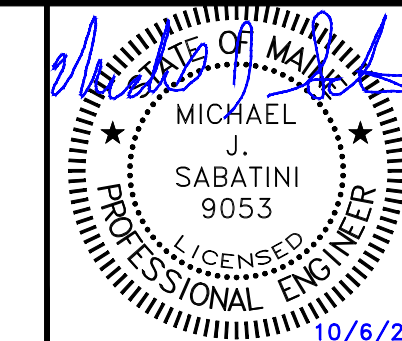
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**EXISTING CONDITIONS AND REMOVAL PLAN
 BUOY PARK**

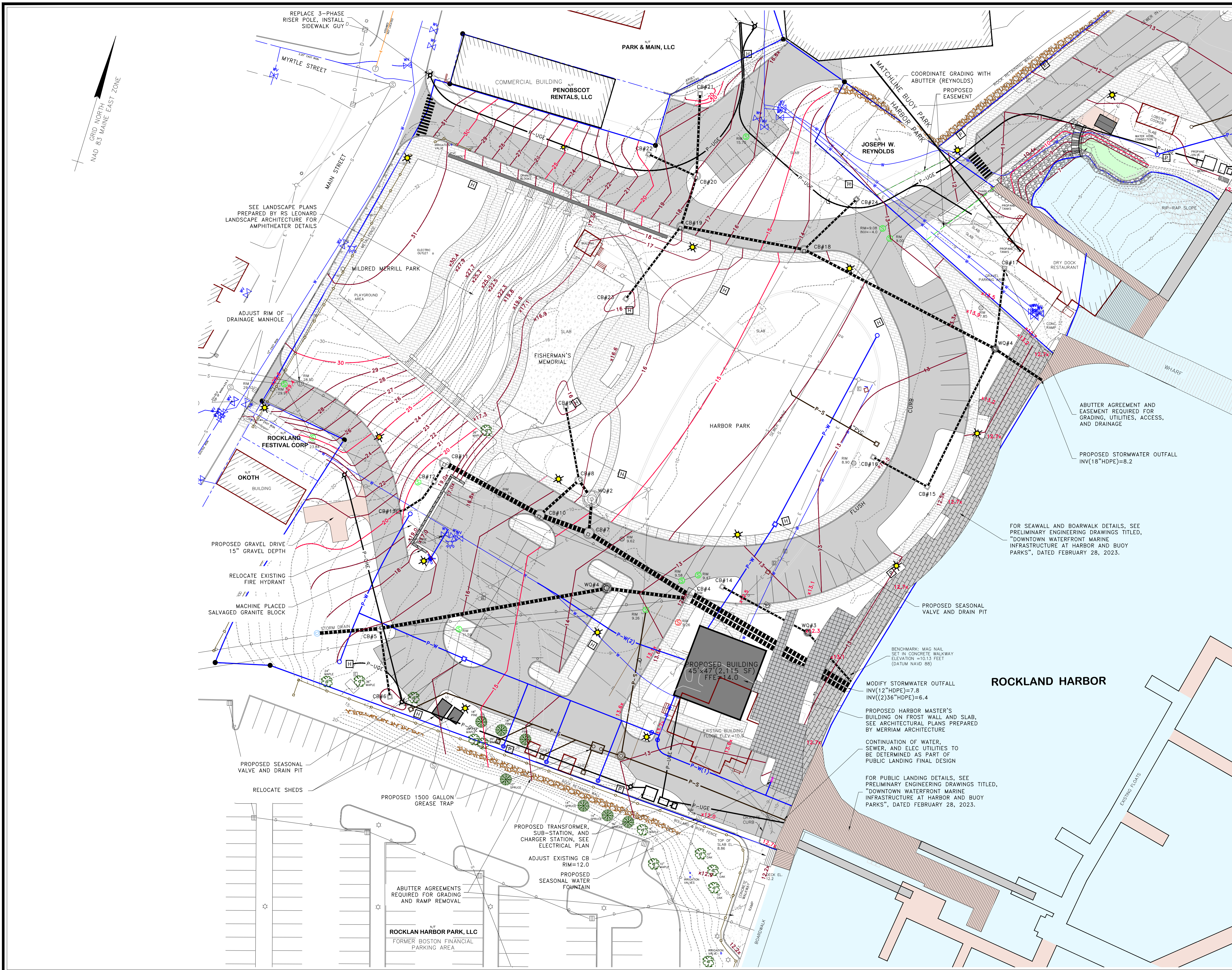


CITY OF ROCKLAND
 DOWNTOWN WATERFRONT UPLAND IMPROVEMENTS
 AT HARBOR AND BUOY PARKS
ROCKLAND, MAINE
 KNOX COUNTY

SHEET DESIGNATION:
C2

SCALE: **1"=30'**

JOB No.: **16-012**



LEGEND:

- IRON PIN FOUND
- EXISTING UTILITY POLE
- EXISTING GUY ANCHOR
- CONIFEROUS TREE
- DECIDUOUS TREE
- EXISTING DRAINAGE
- EXISTING OVERHEAD UTILITY
- EXISTING WATER MAIN
- EXISTING SEWER MAIN
- ⊗ EXISTING WATER VALVE
- ⊗ EXISTING HYDRANT
- ⊗ EXISTING SEWER MANHOLE
- ⊗ ADJUST RIM OF EXISTING MANHOLE TO PROP. GRADE
- ⊗ EXISTING CATCH BASIN
- ⊗ EXISTING CATCHHEAD
- ⊗ EXISTING PLANTING BED
- ⊗ EXISTING ELECTRIC PANEL
- EXISTING CONTOUR
- BOUNDARY LINE (BEAL)
- TAX MAP LINE
- P-S PROPOSED SEWER
- ⊗ PROPOSED SEWER CONNECTION PIT
- P-W PROPOSED WATER LINE
- ⊗ PROPOSED WATER VALVE
- ⊗ PROPOSED WATER SPIGOT
- ⊗ PROPOSED SEASONAL WATER SPIGOT
- P-UG EX PROPOSED UNDERGROUND UTILITY
- P-OHE EX PROPOSED OVERHEAD UTILITY
- ⊗ PROPOSED UTILITY POLE
- ⊗ PROPOSED ELECTRIC PEDESTAL
- ⊗ PROPOSED ELECTRIC HANDHOLE
- PROPOSED STORMDRAIN
- ⊗ PROPOSED CATCH BASIN (4' DIA.)
- ⊗ PROPOSED CATCH BASIN (TYPE F)
- 13.5x PROPOSED SPOT ELEVATION
- PROPOSED CONTOURS
- ⊗ PROPOSED SITE LIGHT
- ⊗ PROPOSED PAVER PATH

SITE NOTES:

1. THIS PLAN IN CONJUNCTION WITH ARCHITECTURAL, LANDSCAPE, AND ELECTRICAL PLANS BY OTHERS (SEE COVER SHEET) IS INTENDED TO SHOW PRELIMINARY ENGINEERING (30% DESIGN, NOT FOR CONSTRUCTION) OF UPLAND IMPROVEMENTS AT HARBOR PARK AND BUOY PARK. THE IMPROVEMENTS ARE IN ACCORDANCE WITH A MASTER PLAN VETTED AND ESTABLISHED BY THE ROCKLAND DOWNTOWN WATERFRONT AD HOC COMMITTEE. THESE UPLAND IMPROVEMENTS ARE COORDINATED WITH MARINE IMPROVEMENTS TO THE PUBLIC LANDING, HARBOR PARK SEAWALL, AND MIDDLE PIER AS SHOWN ON PRELIMINARY ENGINEERING PLANS TITLED "DOWNTOWN WATERFRONT MARINE INFRASTRUCTURE AT HARBOR AND BUOY PARKS", DATED FEBRUARY 28, 2023.
2. THE POWER, WATER, AND SEWER UTILITY IMPROVEMENTS SHOWN HAVE BEEN REVIEWED WITH THEIR RESPECTIVE PROVIDER. THEIR LOCATION SHALL BE CONSIDERED SCHEMATIC AND REPRESENT THE INTENT AND LOCATION FOR SERVICE AND DISTRIBUTION. REFINEMENT OF UTILITY IMPROVEMENTS WILL BE NECESSARY DURING SUBSEQUENT DESIGN EFFORTS. FOR MORE ELECTRICAL DETAIL, INCLUDING DISTRIBUTION OF POWER FOR LARGE PARK EVENTS, SEE PRELIMINARY PLANS BY MOFFIT & LOFTIS INCLUDED IN THIS DRAWING SET.
3. THE WATER AND SEWER CONNECTION PITS SHALL BE A TYPE F PRECAST CATCH BASIN FITTED WITH A 2'x2' ALUMINUM HATCH.
4. MAINE DEP AND ARMY CORP PERMITS WILL BE REQUIRED FOR THE SHORELINE STABILIZATION ELEMENTS AS WELL AS DISTURBANCE WITHIN 25' OF THE HARBOR. CITY OF ROCKLAND FLOOD HAZARD AND BUILDING PERMITS WILL BE REQUIRED FOR FILLING AND REPLACEMENT OF THE HARBORMASTER/YACHT CLUB BUILDING.
5. STORMDRAIN AND STORMWATER QUALITY TREATMENT DEVICES SHOWN SHALL BE CONSIDERED PRELIMINARY AND WILL NEED ADDITIONAL HYDROLOGIC AND HYDRAULIC ANALYSIS UPON FURTHER DESIGN EFFORTS.

SURVEYOR'S NOTES:

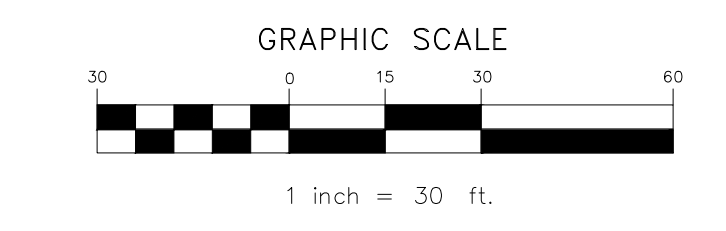
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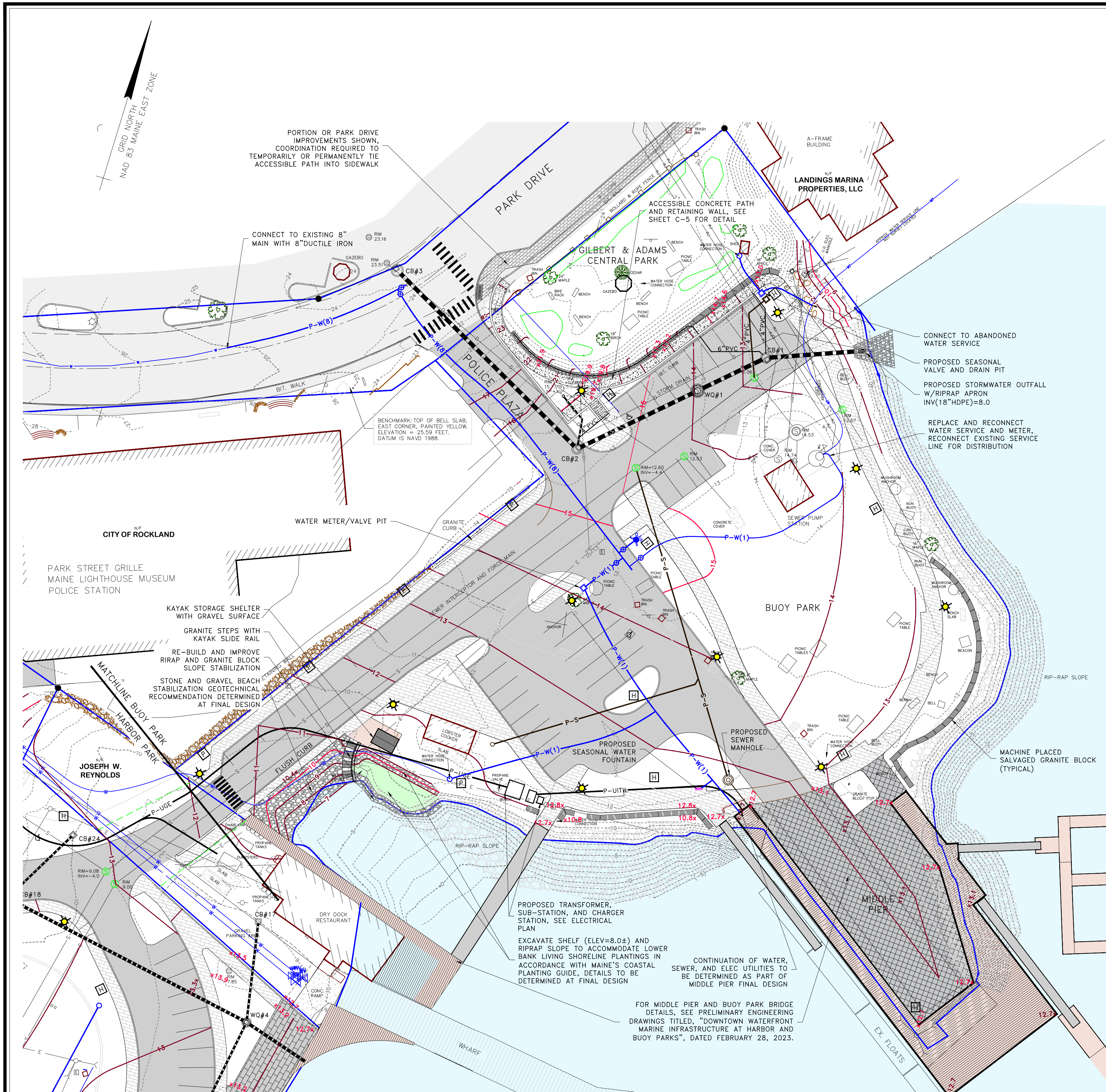
SITE PLAN
HARBOR PARK

PROFESSIONAL ENGINEER
 MICHAEL J. SABATINI
 9053
 10/6/23

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 DOWNTOWN WATERFRONT UPLAND IMPROVEMENTS
 AT HARBOR AND BUOY PARKS
 ROCKLAND, MAINE
 KNOX COUNTY

SCALE: **1" = 30'** JOB No.: **16-012**

SHEET DESIGNATION: **C3**



LEGEND:

- IRON PIN FOUND
- EXISTING UTILITY POLE
- EXISTING GUY ANCHOR
- CONIFEROUS TREE
- DECIDUOUS TREE
- EXISTING DRAINAGE
- EXISTING OVERHEAD UTILITY
- EXISTING WATER MAIN
- EXISTING SEWER MAIN
- EXISTING WATER VALVE
- EXISTING HYDRANT
- EXISTING SEWER MANHOLE
- ADJUST RIM OF EXISTING MANHOLE TO PROP. GRADE
- EXISTING CATCH BASIN
- EXISTING CATCHBASIN
- EXISTING PLANTING BED
- EXISTING ELECTRIC PANEL
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- BOUNDARY LINE (BEAL)
- TAX MAP LINE
- P-S PROPOSED SEWER
- P-W PROPOSED WATER LINE
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- P-OHE EX PROPOSED OVERHEAD UTILITY
- PROPOSED UTILITY POLE
- PROPOSED ELECTRIC PEDESTAL
- PROPOSED ELECTRIC HANDHOLE
- PROPOSED STORMDRAIN
- PROPOSED CATCH BASIN (4' DIA.)
- PROPOSED CATCH BASIN (TYPE F)
- 13.5x PROPOSED SPOT ELEVATION
- 14 PROPOSED CONTOURS
- PROPOSED SITE LIGHT
- PROPOSED PAVER PATH

CB#	RIM	INV. IN	INV. OUT	NOTES:
1	12.6	8.6(24"HDPE)	8.5(24"HDPE)	4" DIAMETER, FLAT TOP 4" FRAME WITH STANDARD GRATE
2	15.3	11.3(24"HDPE)	11.2(24"HDPE)	4" DIAMETER, FLAT TOP 4" FRAME WITH STANDARD GRATE
3	23.6	19.8(8"PVC) 19.0(18"HDPE) 14.2(18"HDPE)	13.7(24"HDPE)	5" DIAMETER 6" FRAME WITH CASCADE GRATE
4	12.5	7.6(36"HDPE) 7.6(24"HDPE)	7.5(36"HDPE) 7.5(36"HDPE)	CAST IN PLACE, EXTENSION OF EXISTING TANK
5	16.7	TBD(24"HDPE) TBD(12"HDPE)	TBD(24"HDPE)	4" DIAMETER 6" FRAME WITH SOLID COVER
6	15.9	—	13.4(12"HDPE)	TYPE F 6" FRAME WITH STANDARD GRATE
7	14.6	8.3(36"HDPE) 8.8(12"HDPE)	8.2(36"HDPE)	6" DIAMETER 6" FRAME WITH STANDARD GRATE
8	16.2	11.0(12"HDPE) 9.2(12"HDPE)	9.1(12"HDPE)	4" DIAMETER 6" FRAME WITH SOLID COVER
9	16.5	—	14.6(12"HDPE)	TYPE F 6" FRAME WITH STANDARD GRATE
BLANK	—	—	—	—
10	15.6	8.5(36"HDPE) TBD(12"HDPE)	8.4(36"HDPE) TBD(12"HDPE)	6" DIAMETER FLOW SPLITTER 6" FRAME WITH STANDARD GRATE
11	19.5	8.4(36"HDPE) TBD(12"HDPE)	9.1(36"HDPE)	TYPE F 6" FRAME WITH STANDARD GRATE
12	18.5	14.8(12"HDPE)	14.7(12"HDPE)	TYPE F 6" FRAME WITH STANDARD GRATE
13	20.0	—	15.8(12"HDPE)	TYPE F 6" FRAME WITH STANDARD GRATE
14	12.0	—	9.5(12"HDPE)	TYPE F 6" FRAME WITH STANDARD GRATE
15	12.0	9.7(12"HDPE)	9.6(12"HDPE)	TYPE F 6" FRAME WITH STANDARD GRATE
16	12.1	—	10.0(12"HDPE)	TYPE F 6" FRAME WITH STANDARD GRATE
17	13.0	—	10.0(12"HDPE)	TYPE F 6" FRAME WITH STANDARD GRATE
18	13.8	9.8(12"HDPE) 9.7(15"HDPE)	9.6(24"HDPE)	4" DIAMETER 6" FRAME WITH CASCADE GRATE
19	17.6	12.7(15"HDPE) 12.8(12"HDPE)	12.5(15"HDPE)	4" DIAMETER 6" FRAME WITH CASCADE GRATE
20	18.0	13.6(15"HDPE) 13.3(12"HDPE)	13.5(15"HDPE)	4" DIAMETER 6" FRAME WITH STANDARD GRATE
21	19.0	—	15.0(15"HDPE)	TYPE F 6" FRAME WITH STANDARD GRATE
22	19.0	—	15.5(12"HDPE)	TYPE F 6" FRAME WITH STANDARD GRATE
23	15.5	—	13.3(12" HDPE)	TYPE F 6" FRAME WITH STANDARD GRATE
24	13.0	—	10.2(12"HDPE)	TYPE F 6" FRAME WITH STANDARD GRATE
BLANK	—	—	—	—
BLANK	—	—	—	—

NOTE: ALL RIMS, INVERTS, AND PIPE SIZES ARE PRELIMINARY AND SHALL BE VERIFIED DURING FINAL DESIGN

WQ#	RIM	INV. IN	INV. OUT	NOTES:
1	14.0	9.0(24"HDPE)	8.9(24"HDPE)	6" DIAMETER CS-6 CASCADE SEPARATOR (CONTECH)
2	15.5	9.0(12"HDPE)	8.9(12"HDPE)	10" DIAMETER CDS-10 HYDRODYNAMIC SEPARATOR (CONTECH)
3	12.3	8.3(12"HDPE)	8.2(12"HDPE)	4" DIAMETER CS-6 CASCADE SEPARATOR (CONTECH)
4	13.0	8.6(12"HDPE) 8.6(18"HDPE) 8.6(12"HDPE)	8.5(24"HDPE)	4" DIAMETER CS-4 CASCADE SEPARATOR (CONTECH)

NOTE: ALL RIMS, INVERTS, AND WATER QUALITY STRUCTURE SIZES ARE PRELIMINARY AND SHALL BE VERIFIED DURING FINAL DESIGN

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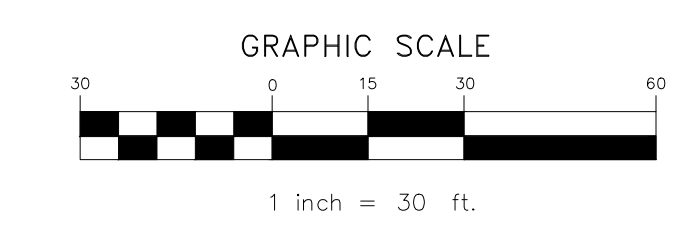
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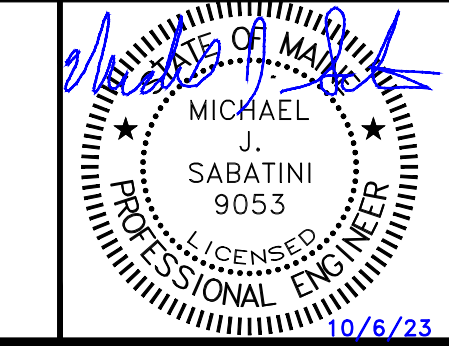
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SITE PLAN BUOY PARK



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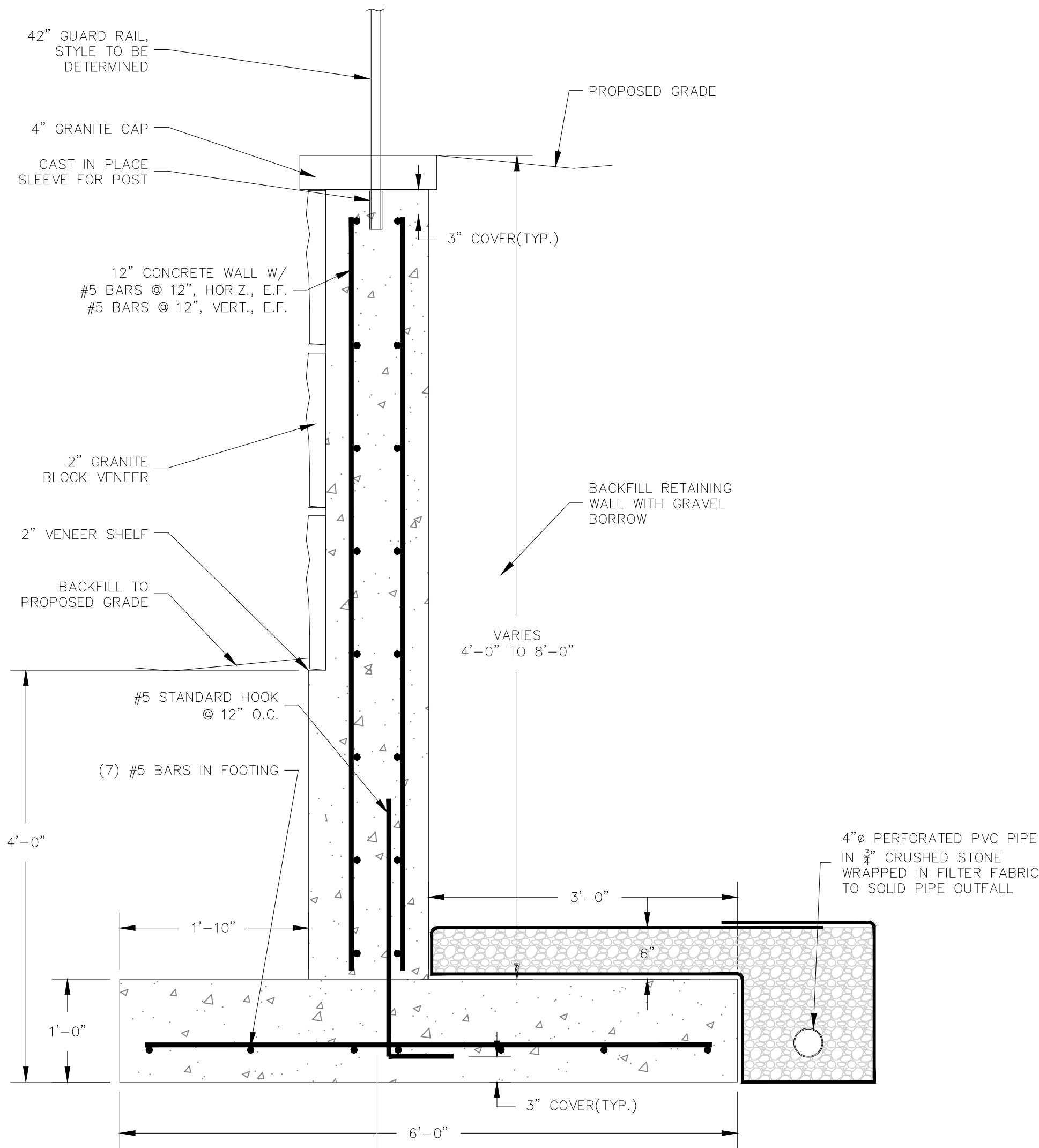
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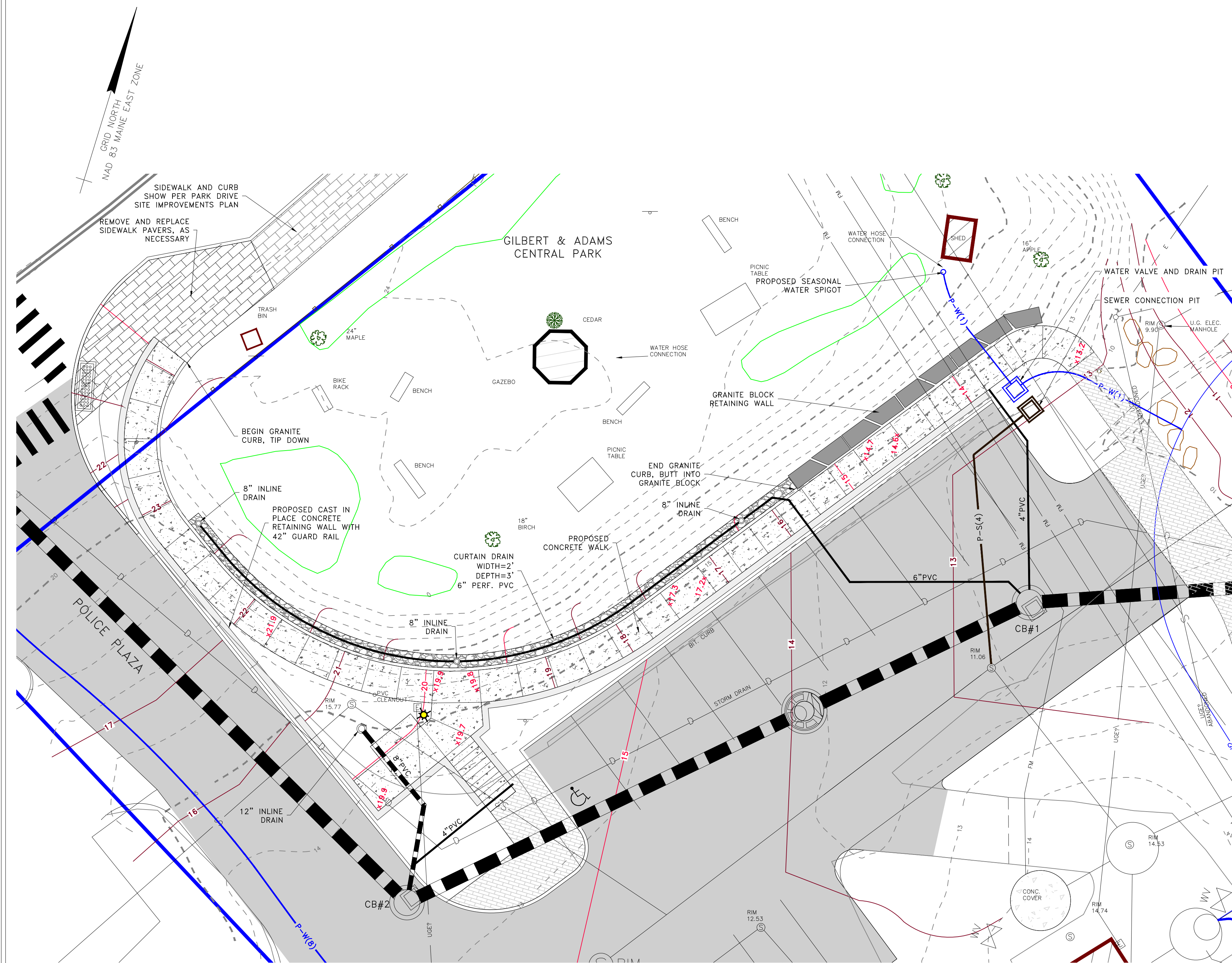
SHEET DESIGNATION:
C4

LEGEND:

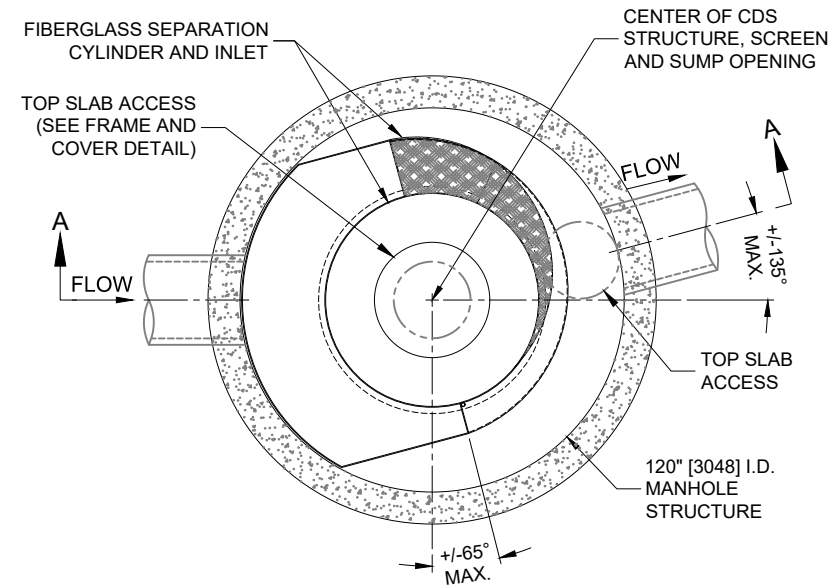
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- PROPOSED PAVER PATH



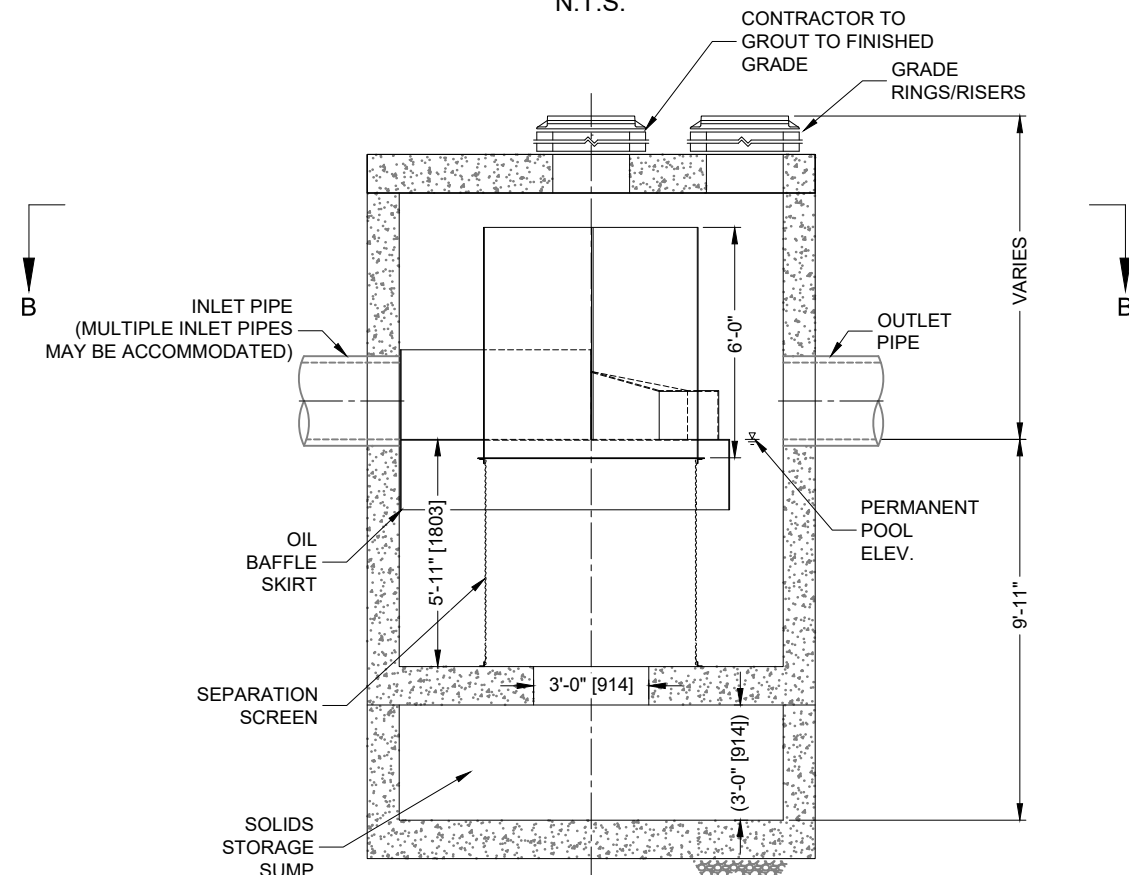
FOUNDATION WALL TYPICAL SECTION
NOT TO SCALE



ACCESSIBLE PATH PLAN
SCALE: 1"=10'



PLAN VIEW B-B
N.T.S.

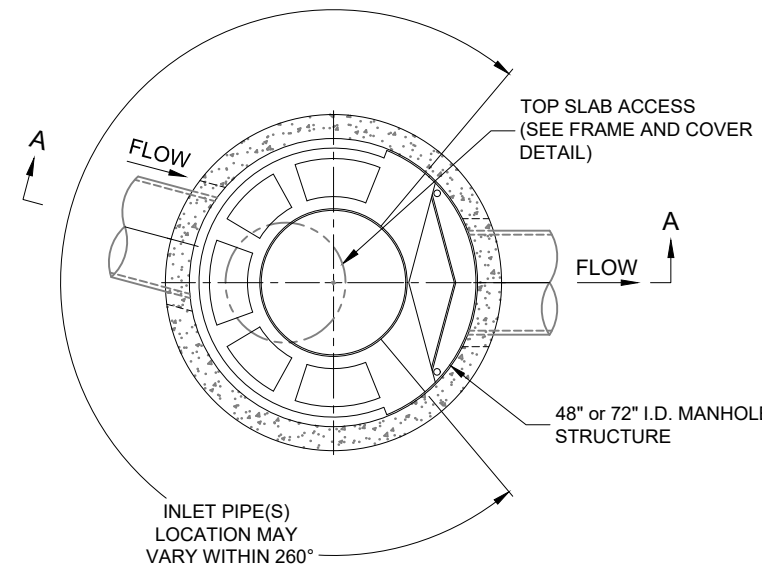


ELEVATION A-A
N.T.S.

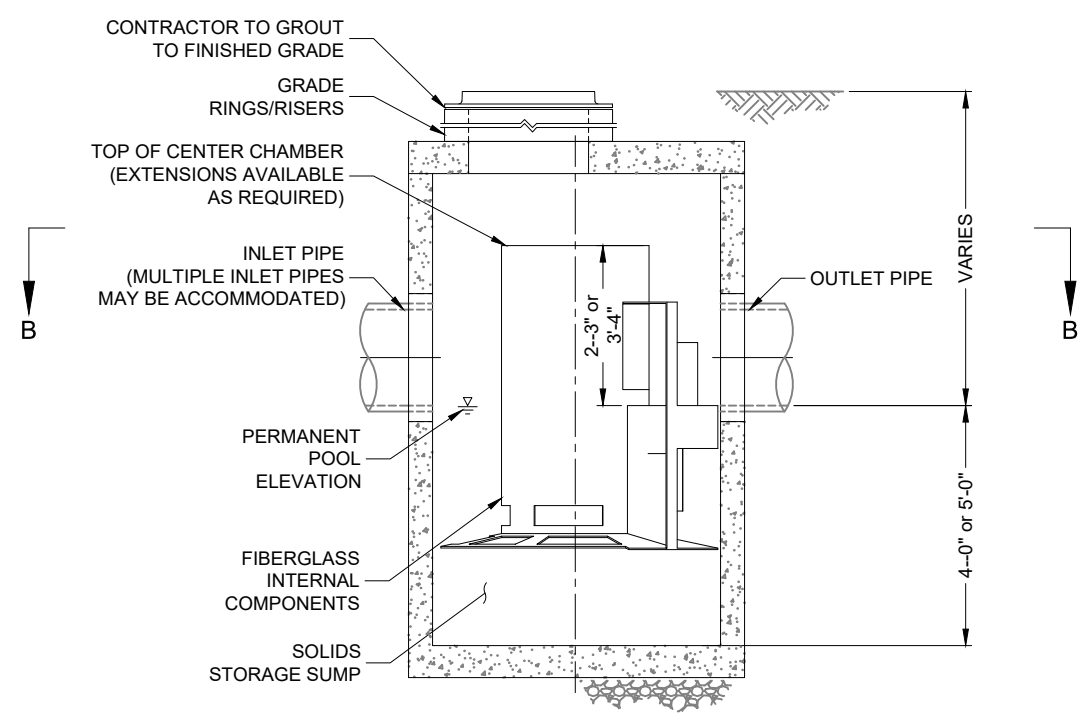
NOTE: THE CONTINUOUS DEFLECTIVE SEPARATION DEVICE (CDS) IS A SWIRL CONCENTRATOR HYBRID TECHNOLOGY THAT USES A COMBINATION OF SWIRL CONCENTRATION AND INDIRECT SCREENING TO SCREEN, SEPARATE AND TRAP DEBRIS, SEDIMENT, AND HYDROCARBONS FROM STORMWATER RUNOFF.



CDS5653-10-C
ONLINE CDS
STANDARD DETAIL



PLAN VIEW B-B
NOT TO SCALE

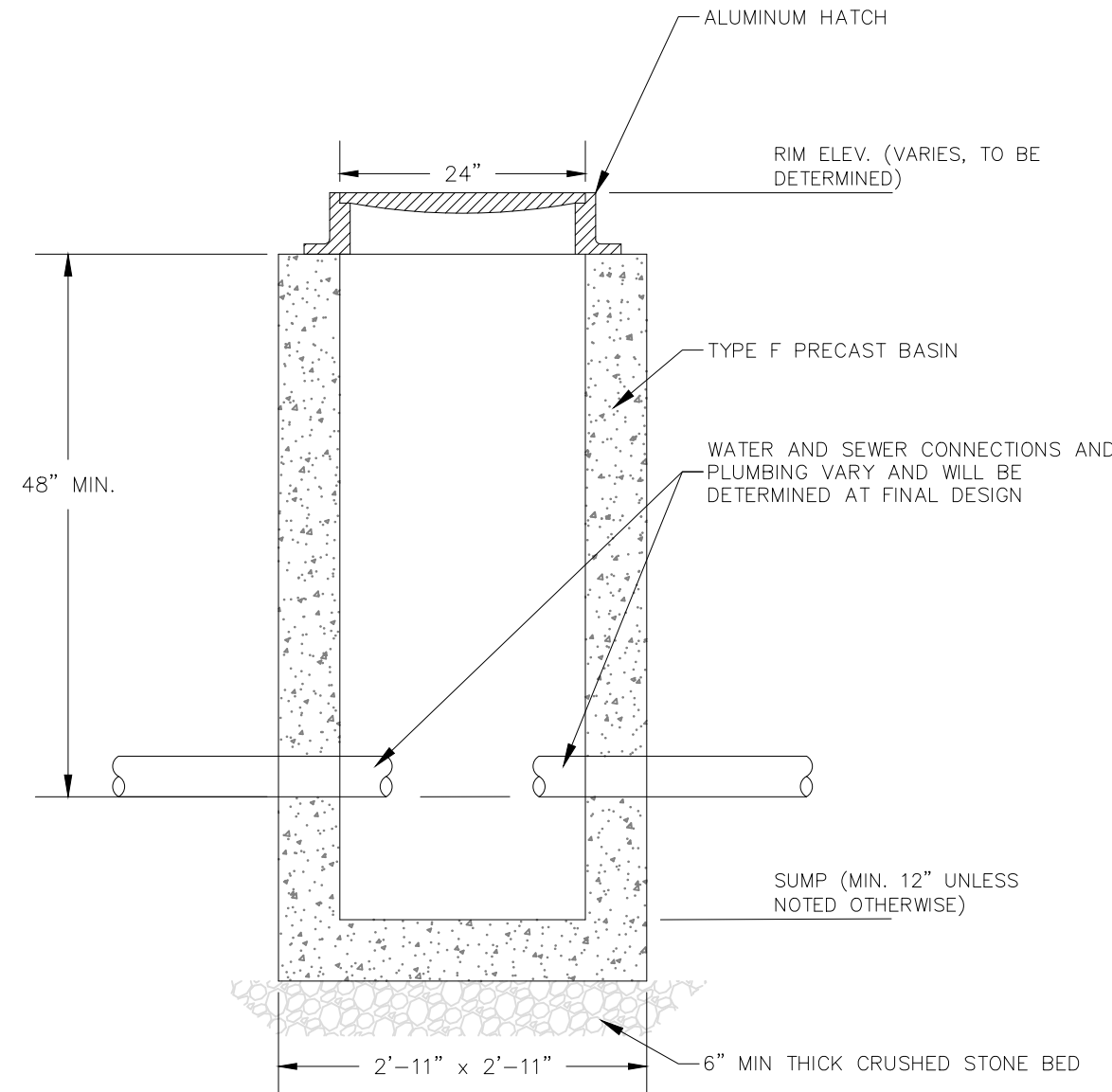


ELEVATION A-A
NOT TO SCALE

NOTE: THE CASCADE SEPARATOR IS A HYDRODYNAMIC SEPARATOR TECHNOLOGY THAT CAPTURES AND RETAINS SEDIMENT WHILE ALSO REMOVING HYDROCARBONS, TRASH, AND DEBRIS FROM STORMWATER RUNOFF.



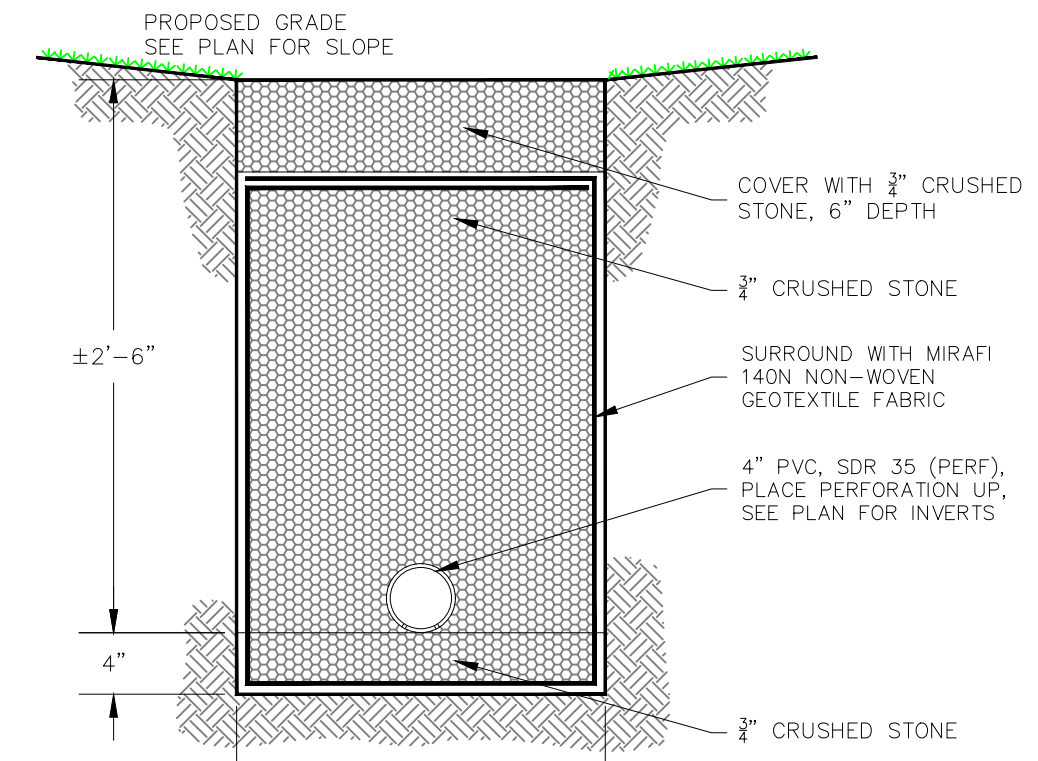
CS-6, 4
CASCADE SEPARATOR
STANDARD DETAIL



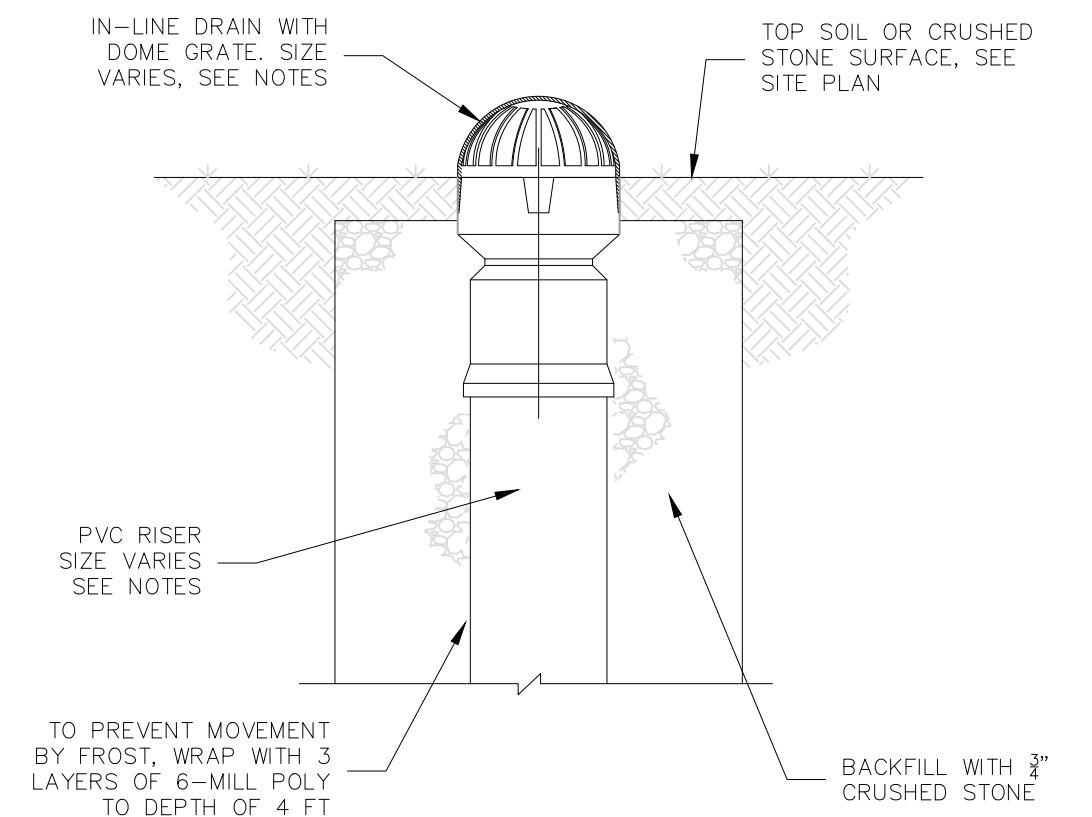
NOTES:

1. CONNECTION PIT RIM ELEVATIONS AND PIPE SIZES TO BE DETERMINED AT FINAL DESIGN.
2. ALUMINUM HATCH TO BE HINGED AND LOCKABLE.
3. CONCRETE: 4,000 PSI AFTER 28 DAYS.
4. SHOP DRAWINGS FOR CONNECTION PITS TO BE SUBMITTED TO THE ENGINEER FOR REVIEW.

WATER AND SEWER CONNECTION PIT
NOT TO SCALE



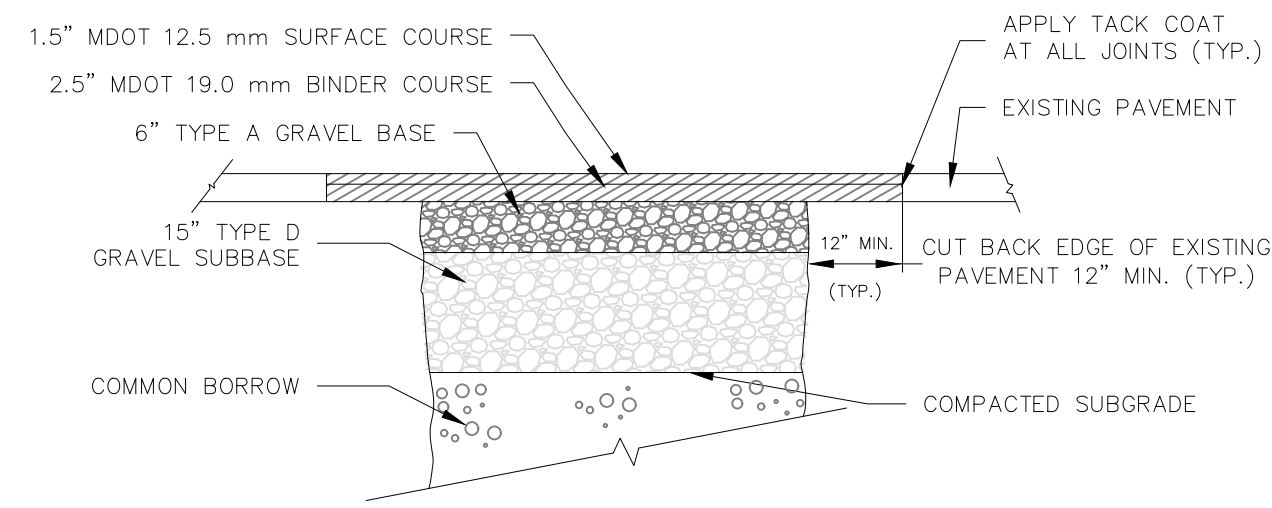
CUT-OFF DRAIN TRENCH
NOT TO SCALE



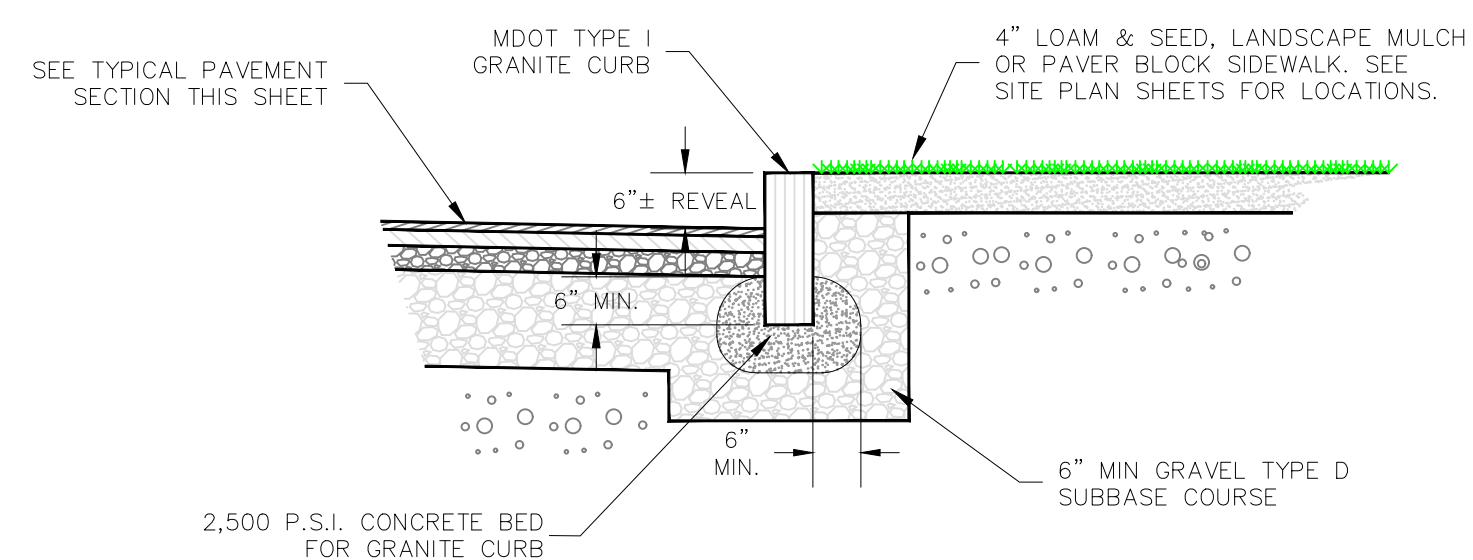
NOTES:

1. 8" IN-LINE DRAINS SHALL HAVE 6" RISERS.
2. 12" IN-LINE DRAINS SHALL HAVE 10" RISERS.
3. IN-LINE DRAINS ARE FOR NON-TRAFFIC INSTALLATION ONLY.

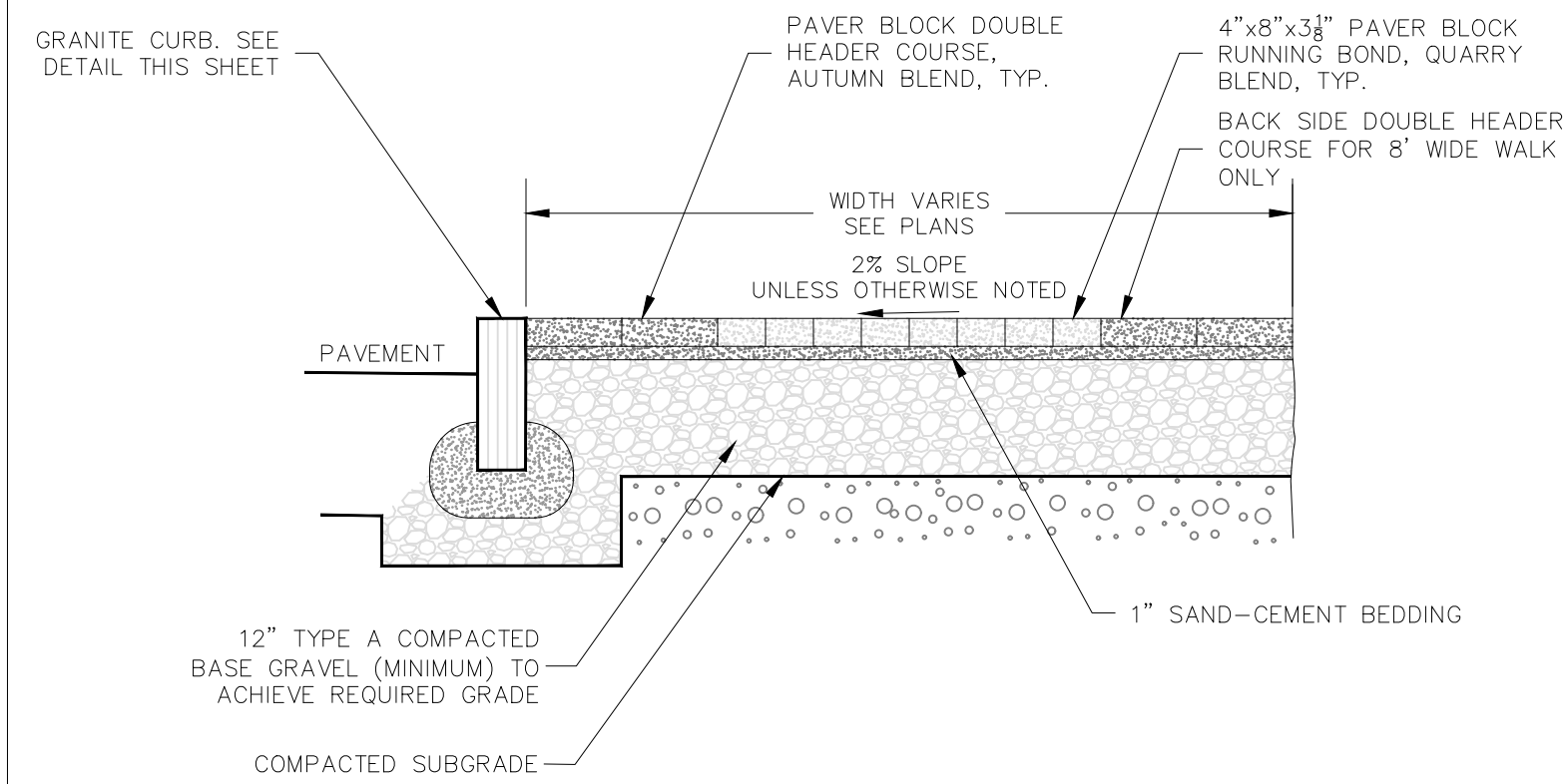
NYLOPLAST INLINE DRAIN DETAIL
NOT TO SCALE



TYPICAL BITUMINOUS PAVEMENT SECTION
NOT TO SCALE



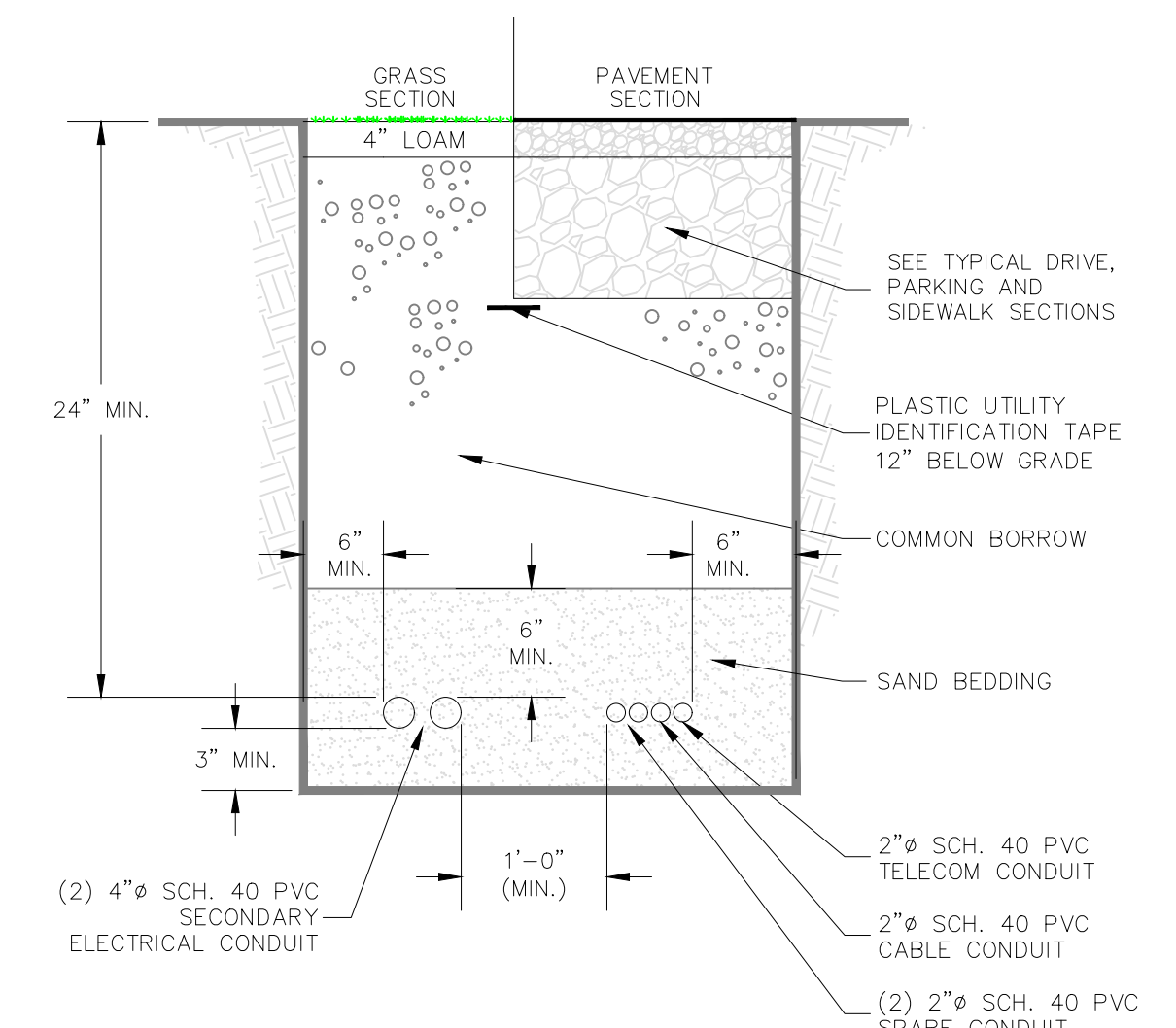
TYPICAL CURB SECTION
NOT TO SCALE



NOTE:

PAVER BLOCKS STYLE AND SIZE TO BE DETERMINED DURING FINAL DESIGN.

TYPICAL PAVER BLOCK SECTION
NOT TO SCALE



NOTES:

1. THIS DETAIL IS FOR GENERAL CONDUIT TRENCHING.
2. CONDUIT NUMBER AND SIZES SHALL BE VERIFIED WITH THE ELECTRICAL ENGINEER BEFORE INSTALLATION.

TYPICAL CONDUIT TRENCH SECTION
NOT TO SCALE

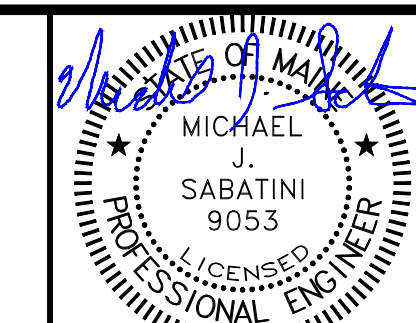


135 ROCKLAND STREET ROCKPORT, MAINE 04856 PHONE: (207) 236-6757 WWW.LANDMARKMAINE.COM

FIELD WORK DATE: 4/2022
FIELD WORK BY: KMB/EST
DRAFTED BY: KBM/MJS
CHECKED BY: MJS
PLAN DATE:
OCTOBER 6, 2023

NO.	REVISIONS	BY	DATE

DETAIL SHEET



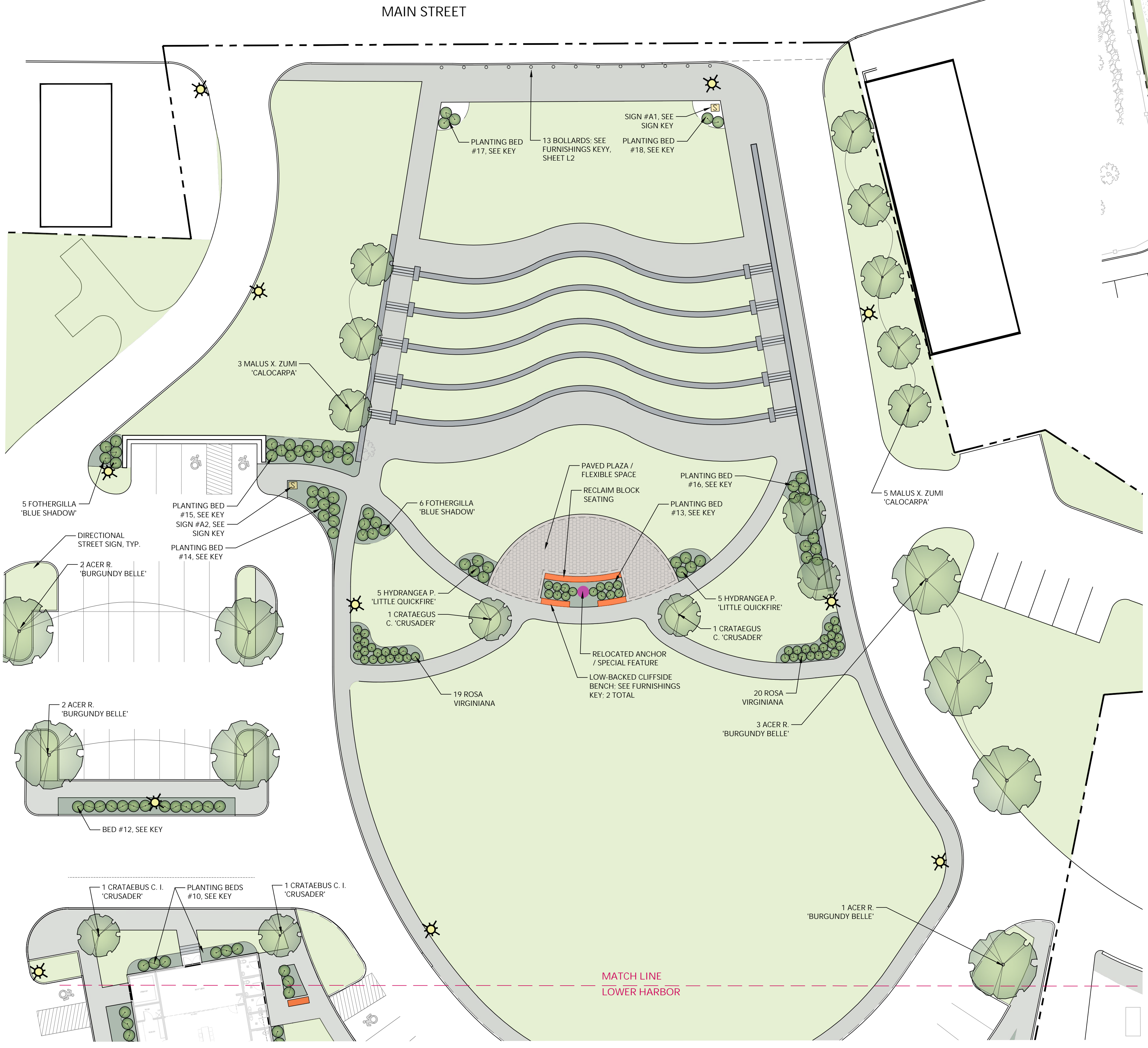
CITY OF ROCKLAND
DOWNTOWN WATERFRONT UPLAND IMPROVEMENTS
AT HARBOR AND BUOY PARKS
ROCKLAND, MAINE
KNOX COUNTY

SHEET DESIGNATION:

C6

SCALE: **AS SHOWN**

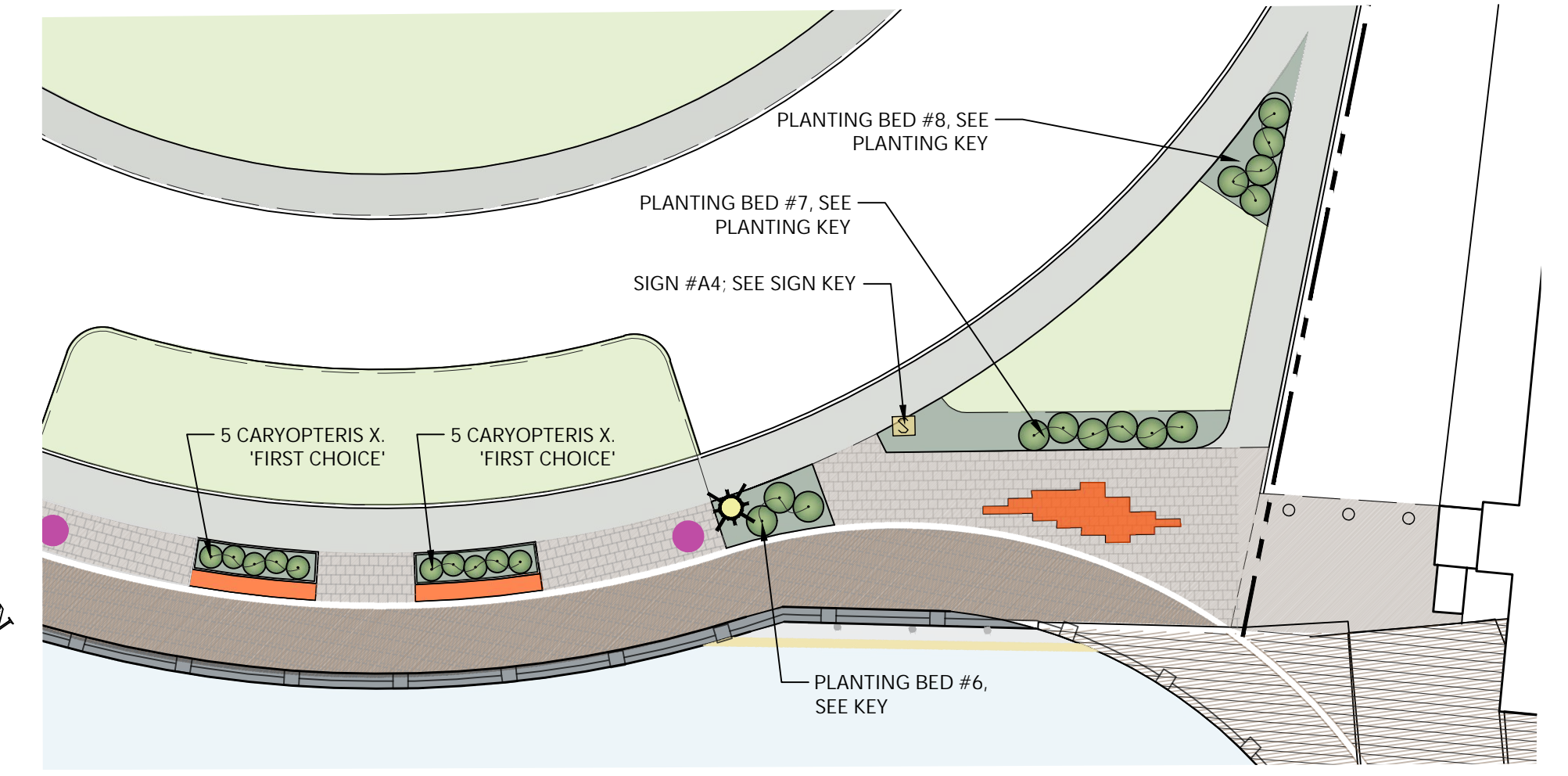
JOB No.: **16-012**



PLANTINGS - UPPER HARBOR PARK



PLANTINGS - LOWER HARBOR PARK (SOUTH)



PLANTINGS - LOWER HARBOR PARK (SOUTH)

PLANTING SCHEDULE FOR NUMBERED BEDS

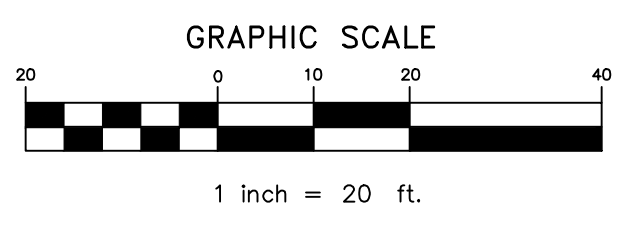
QTY.	BOTANICAL NAME	COMMON NAME	SIZE/COND.
BED #1 (UPDATED)			
5	DESCHAMPSIA C. 'GOLDTAL'	GOLDEN DEW TUFTED HAIR GRASS	#1 POT
9	NEPETA G. 'SUMMER MAGIC'	SUMMER MAGIC CATMINT	#1 POT
3	SPIRAEA B. 'PINK SPARKLER'	PINK SPARKLER BIRCHLEAF SPIREA	#3 POT
BED #2 (UPDATED)			
1	CRATAEGUS V. 'WINTER KING'	WINTER KING HAWTHORN	2-2.5' CAL
9	DESCHAMPSIA C. 'GOLDTAL'	GOLDEN DEW TUFTED HAIR GRASS	#1 POT
10	HEMEROCALLIS 'BIG TIME HAPPY'	BIG TIME HAPPY DAYLILY	#1 POT
15	NEPETA G. 'SUMMER MAGIC'	SUMMER MAGIC CATMINT	#1 POT
BED #3 (UPDATED)			
1	CRATAEGUS V. 'WINTER KING'	WINTER KING HAWTHORN	2-2.5' CAL
12	CARYOPTERIS X. 'FIRST CHOICE'	FIRST CHOICE BLUE MIST SPIREA	#3 POT
12	HEMEROCALLIS 'BIG TIME HAPPY'	BIG TIME HAPPY DAYLILY	#1 POT
12	NEPETA G. 'SUMMER MAGIC'	SUMMER MAGIC CATMINT	#1 POT
7	SPIRAEA B. 'PINK SPARKLER'	PINK SPARKLER BIRCHLEAF SPIREA	#3 POT
BED #4 (UPDATED)			
11	ROSA VIRGINIANA	VIRGINIA ROSE	#3 POT
5	HEMEROCALLIS 'BIG TIME HAPPY'	BIG TIME HAPPY DAYLILY	#1 POT
14	SALVIA N. 'PINK PROFUSION'	PINK PROFUSION SAGE	#1 POT
BED #5 (UPDATED)			
5	HYDRANGEA A. 'BAR HARBOR'	BAR HARBOR HYDRANGEA	#5 POT
5	NEPETA G. 'SUMMER MAGIC'	SUMMER MAGIC CATMINT	#1 POT
BED #6 (UPDATED)			
11	ROSA VIRGINIANA	VIRGINIA ROSE	#3 POT
5	NEPETA G. 'SUMMER MAGIC'	SUMMER MAGIC CATMINT	#1 POT
BED #7			
7	HYDRANGEA A. 'BAR HARBOR'	BAR HARBOR HYDRANGEA	#5 POT
3	HEMEROCALLIS 'BIG TIME HAPPY'	BIG TIME HAPPY DAYLILY	#1 POT
10	LEUCANTHEMUM 'LEMON PUFF'	LEMON PUFF SHASTA DAISY	#1 POT
7	SALVIA N. 'PINK PROFUSION'	PINK PROFUSION SALVIA	#1 POT
BED #8			
5	RHUS AROMATICA 'GRO-LOW'	GRO-LOW FRAGRANT SUMAC	#3 POT
8	SYMPHOTRICHUM N. 'PURPLE DOME'	PURPLE DOME ASTER	#1 POT
BED #9			
3	PINUS S. 'NANA'	DWARF WHITE PINE	#5 POT
3	NEPETA G. 'EARLY BIRD'	EARLY BIRD CATMINT	#1 POT
3	SEDUM S. 'CARL'	AUTUMN STONECROP	#3 POT

PLANTING SCHEDULE FOR NUMBERED BEDS, CONT'D.

QTY.	BOTANICAL NAME	COMMON NAME	SIZE/COND.
BED #10			
6	SPIRAEA X. B. 'ANTHONY WATERER'	ANTHONY WATERER SPIREA	#5 POT
8	LIATRIS S. 'KOBOLD'	KOBOLD SPIKED GAYFEATHER	#1 POT
6	SEDUM S. 'CARL'	AUTUMN STONECROP	#3 POT
BED #11			
5	HYDRANGEA A. 'BAR HARBOR'	BAR HARBOR HYDRANGEA	#5 POT
7	SEDUM SIEBOLDII	OCTOBER DAPHNE STONECROP	#1 POT
15	STACHYS M. 'HUMMELO'	HUMMELO LAMBS EARS	#1 POT
BED #12			
13	RHUS A. 'GRO-LOW'	GRO-LOW FRAGRANT SUMAC	#3 POT
6	SEDUM S. 'CARL'	AUTUMN STONECROP	#3 POT
12	HEMEROCALLIS 'BIG TIME HAPPY'	BIG TIME HAPPY DAYLILY	#1 POT
12	NEPETA G. 'SUMMER MAGIC'	SUMMER MAGIC CATMINT	#1 POT
7	SPIRAEA B. 'PINK SPARKLER'	PINK SPARKLER BIRCHLEAF SPIREA	#3 POT
BED #13			
14	SPIRAEA J. 'BLUE KAZOO'	DOUBLE PLAY SPIREA	#3 POT
15	STACHYS M. 'HUMMELO'	HUMMELO LAMBS EARS	#1 POT
BED #14			
9	HYDRANGEA P. 'LITTLE LIME'	LITTLE LIME HYDRANGEA	#5 POT
15	STACHYS M. 'HUMMELO'	HUMMELO LAMBS EARS	#1 POT
BED #15			
14	RHUS A. 'GRO-LOW'	GRO-LOW FRAGRANT SUMAC	#3 POT
10	STACHYS M. 'HUMMELO'	HUMMELO LAMBS EARS	#1 POT
BED #16			
2	CRATAEGUS C. I. 'CRUSADER'	CRUSADER HAWTHORN	1.5-2' CAL
10	FOTHERGILLA X. 'BLUE SHADOW'	BLUE SHADOW FOTHERGILLA	#5 POT
3	HEMEROCALLIS 'BIG TIME HAPPY'	BIG TIME HAPPY DAYLILY	#1 POT
10	LEUCANTHEMUM 'LEMON PUFF'	LEMON PUFF SHASTA DAISY	#1 POT
7	SALVIA N. 'PINK PROFUSION'	PINK PROFUSION SALVIA	#1 POT
BED #17			
5	HYDRANGEA A. 'BAR HARBOR'	BAR HARBOR HYDRANGEA	#5 POT
5	NEPETA G. 'EARLY BIRD'	EARLY BIRD CATMINT	#1 POT
3	SEDUM S. 'CARL'	AUTUMN STONECROP	#1 POT
BED #18			
5	HYDRANGEA A. 'BAR HARBOR'	BAR HARBOR HYDRANGEA	#5 POT
5	NEPETA G. 'EARLY BIRD'	EARLY BIRD CATMINT	#1 POT
3	SEDUM S. 'CARL'	AUTUMN STONECROP	#1 POT



REVISIONS			
DRAFTED BY:	RSL	DATE	XX
CHECKED BY:	MJS	DESCR.	XX
PLAN DATE:		DATE	
		DESCR.	



HARBOR PARK LANDSCAPE & MATERIALS PLAN
PRELIM. DESIGN



DOWNTOWN WATERFRONT MARINE INFRASTRUCTURE
AT HARBOR AND BUOY PARKS
ROCKLAND, MAINE
KNOX COUNTY

SCALE: AS SHOWN JOB No.: 16-012 SHEET 1 OF 4

L1

2024RS LEONARD.DWG



PLANTING NOTES

1. ALL MATERIALS SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
2. IN THE CASE OF ANY DISCREPANCIES BETWEEN SPECIES AND QUANTITIES CALLED OUT IN THE PLANTING KEY AND THOSE SHOWN ON THE PLAN, QUANTITIES AND SPECIES SHOWN ON THE PLAN SHALL OVER-RIDE.
3. ALL PLANTING SHALL BE DONE IN ACCORDANCE WITH ACCEPTABLE HORTICULTURAL PRACTICES.
4. ALL PLANTS SUBJECT TO APPROVAL BY LANDSCAPE ARCHITECT. ALL SUBSTITUTIONS MUST BE SUBMITTED FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO ORDERING OR DELIVERY OF PLANT MATERIAL ON SITE. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY PLANTINGS THAT DO NOT CONFORM TO THE DRAWINGS OR SPECIFICATIONS OUTLINED HEREIN.
5. LANDSCAPE ARCHITECT SHALL APPROVE FINAL PLACEMENT OF ALL PLANT MATERIALS AND RESERVES THE RIGHT TO MAKE FIELD ADJUSTMENTS TO PLANTINGS AS NECESSARY BASED ON SITE CONDITIONS.
6. NO GRADING, SOIL DISTURBANCE, OR STORAGE OF MATERIALS OR EQUIPMENT SHALL OCCUR WITHIN THE DRIP-LINE OF EXISTING TREES UNLESS OTHERWISE SHOWN ON PLANS. ANY EXCAVATION WITHIN SUCH AREAS SHALL BE PERFORMED WITH SPECIAL CARE.
7. PLANTING PITS AND BEDS SHALL CONSIST OF 3 PARTS FERTILE, FRIABLE LOAM AMENDED WITH 1 PART ORGANIC COMPOST, AS APPROVED BY THE LANDSCAPE ARCHITECT. PLANTING BEDS SHALL BE A MINIMUM DEPTH OF 12" OF PREPARED SOIL, AS NOTED.
8. FINISH GRADE OF PLANTINGS SHALL MATCH ADJACENT FINISH GRADES UNLESS OTHERWISE NOTED ON DRAWINGS OR DIRECTED AND/OR APPROVED BY THE LANDSCAPE ARCHITECT.
9. NO PLANT SHALL BE PUT INTO THE GROUND BEFORE ROUGH GRADING HAS BEEN FINISHED AND APPROVED BY THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE.
10. ALL PLANTS SHALL BE SET PLUMB UNLESS OTHERWISE SPECIFIED.
11. ALL PLANTINGS SHALL BE TOPPED WITH 3" OF SCREENED, COMPOSTED PINE BARK MULCH. SEE WRITTEN SPECIFICATIONS.
12. ALL DISTURBED AREAS NOT OTHERWISE PLANTED SHALL BE SEED WITH THE SEED MIX AND APPLICATION RATE SPECIFIED IN THE SITE PLANTING KEY. ALL AREAS TO RECEIVE SEED SHALL RECEIVE 4" CLEAN TOPSOIL. AREAS SHALL BE FINE RAKED AND ALL DEBRIS REMOVED FROM SITE.
13. CONTRACTOR SHALL WATER ALL PLANTS THOROUGHLY TWICE DURING THE FIRST 24-HOUR PERIOD AFTER PLANTING. ALL PLANTS AND NEWLY GRASSED AREAS SHALL BE WATERED AS REQUIRED THEREAFTER TO ENSURE SURVIVAL AND GROWTH THROUGH THE FIRST GROWING SEASON.
14. PLANT MATERIAL SHALL BE GUARANTEED BY THE CONTRACTOR FOR A PERIOD OF ONE YEAR FROM THE DATE OF INSTALLATION. DURING THE ONE YEAR GUARANTEE, THE CONTRACTOR SHALL REPLACE, IN KIND, ANY DEAD, DISEASED, OR SUBSTANDARD PLANT MATERIAL AT NO COST TO THE OWNER. THE CONTRACTOR SHALL RECEIVE FINAL ACCEPTANCE FROM THE OWNER FOLLOWING THE ONE YEAR GUARANTEE, PROVIDED THE PROVISIONS OF THE PLANT GUARANTEE HAVE BEEN SATISFACTORILY MET.
15. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY TO ENSURE THAT ALL WORK IS PERFORMED IN COMPLIANCE WITH ALL STATE AND LOCAL REQUIREMENTS.
17. SPECIFIC DESIGN OF THE LIVING SHORELINE SEGMENT WILL BE DETERMINED DURING FINAL DESIGN IN CONSULTATION WITH THE MAINE STATE COASTAL PROGRAM AND GOVERNING AUTHORITIES.

FURNISHINGS KEY & NOTES:

KEY	TYPE/NAME	QTY.	MODEL NO.	NOTES / SPECIFICATIONS
CLIFFHANGER BENCH, LOW BACK	CHP-FL19-264-TH	12		FREE-STANDING, LOW-BACK; FSC HARDWOOD; GALVANIZED STEEL BASE
BICYCLE RACKS	ARC RACK MODEL	4		SURFACE MOUNTED, GALVANIZED STEEL FINISH
BOLLARDS	BOLLARD R-7551	5		DUCTILE IRON, BLACK FINISH; REMOVABLE (PREM. RETRACTABLE)
DRINKING FOUNTAIN	3611 + 670 + 3660	2		OUTDOOR ADA PEDESTAL WITH BOTTLE FILLER, DOG BOWL, LOCKABLE HOSE BIB

1. MANUFACTURER FOR BENCHES & PICNIC TABLES (A-D): STREETLIFE AMERICA LLC; PHILADELPHIA, PA; US T 1-215-247-0148
2. MANUFACTURER FOR BICYCLE RACKS: DERO; NE REP: BOSTON, MA T 1-617-869-5408
3. MANUFACTURER FOR BOLLARDS: RELIANCE FOUNDRY; SURRY, BC CANADA; T 1-877-789-3245
4. MANUFACTURER FOR DRINKING FOUNTAIN: HAWS COMPANY; T 1-888-640-4297; E: CUSTOMERSERVICE@HAWS.CO.COM
5. SHOP DRAWINGS TO BE PREPARED FOR REVIEW & APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO ORDERING AND FABRICATION

SIGN KEY & NOTES:

SIGN NO.	PANEL SIZE	SIGN LOCATION	DESCRIPTION
SIGN #A1	1'-11" L X 11 1/2" W	MILDRED MERRILL	PARK ENTRANCE & DIRECTIONAL SIGN: MILDRED MERRILL PARK
SIGN #A2	1'-11" L X 11 1/2" W	HARBOR PARK	AMPHITHEATER ENTRANCE
SIGN #A3	1'-11" L X 11 1/2" W	PUBLIC LANDING	ENTRANCE & DIRECTIONAL SIGN: PUBLIC LANDING & HARBOR TRAIL
SIGN #A4	1'-11" L X 11 1/2" W	HARBOR PARK	"BOARDWALK AT HARBOR PARK" ENTRANCE SIGN
SIGN #B1	1'-11" L X 11 1/2" W	BUOY PARK	PARK ENTRANCE & DIRECTIONAL SIGN: BUOY PARK / PUBLIC LANDING / HARBOR TRAIL
SIGN #B2	1'-11" L X 11 1/2" W	MIDDLE PIER	ENTRANCE & DIRECTIONAL SIGN: MIDDLE PIER & HARBOR TRAIL
SIGN #B3	1'-11" L X 11 1/2" W	BUOY PARK	DIRECTIONAL SIGN: TO BOARDWALK / HARBOR PARK / PUBLIC LANDING
SIGN #B4	1'-11" L X 11 1/2" W	BUOY PARK	DIRECTIONAL SIGN: TO G&A CENTRAL PARK / DOWNTOWN
SIGN #B5	1'-11" L X 11 1/2" W	G&A CENTRAL PARK	DIRECTIONAL SIGN: TO BUOY PARK / MIDDLE PIER / HARBOR TRAIL

1. ALL SIGN PANELS SHALL BE MOUNTED ON GRANITE PIERS AT LOCATIONS SHOWN IN THE DRAWINGS.
2. REFERENCE ELEVATIONS AND DETAILS FOR SPECIFICATIONS, FABRICATION AND MOUNTING INFORMATION.
3. PANEL DESIGN AND CONTENTS ARE FOR GUIDANCE; CONTRACTOR SHALL WORK WITH A SIGN GRAPHICS COMPANY TO DEVELOP LAYOUT AND SHOP DRAWINGS FOR APPROVAL BY THE OWNER'S REPRESENTATIVE.

PLANTING SCHEDULE FOR NUMBERED BEDS

QTY.	BOTANICAL NAME	COMMON NAME	SIZE/COND.
LIVING SHORELINE (LOWER BANK) - 2,000 PLUGS			
50%	AMMOPHILA BREVILOGULATA	AMERICAN BEACH GRASS	PLUG
35%	PANICUM VIRGATUM	SWITCHGRASS	PLUG
15%	SOLIDAGO SEMPERVIRENS	SEASIDE GOLDENROD	PLUG
LIVING SHORELINE (UPLAND)			
3	MYRICA PENNSYLVANICA	NORTHERN BAYBERRY	#7 POT
2	PRUNUS MARITIMA	BEACH PLUM	#7 POT
11	VACCINIUM CORYBOSUM	HIGHBUSH BLUEBERRY	#5 POT
BED #1			
3	FOTHERGILLA X 'BLUE SHADOW'	BLUE SHADOW FOTHERGILLA	#5 POT
7	LIATRIS S. 'KOBOLD'	KOBOLD GAYFEATHER	#1 POT
5	SEDUM S. 'CARL'	AUTUMN STONECROP	#1 POT
BED #2			
1	PRUNUS MARITIMA	BEACH PLUM	#7 POT
5	PIRUS S. 'NANA'	DWARF WHITE PINE	#7 POT
6	LIATRIS S. 'KOBOLD'	KOBOLD GAYFEATHER	#1 POT
6	SYMPHOTRICHUM 'PURPLE DOME'	PURPLE DOME ASTER	#1 POT
BED #3			
9	HYDRANGEA A. 'BAR HARBOR'	BAR HARBOR HYDRANGEA	#5 POT
5	LIATRIS S. 'KOBOLD'	KOBOLD GAYFEATHER	#1 POT
BED #4			
5	HYDRANGEA P. 'LITTLE QUICKFIRE'	LITTLE QUICKFIRE HYDRANGEA	#5 POT
5	SYMPHOTRICHUM 'PURPLE DOME'	PURPLE DOME ASTER	#1 POT
BED #5			
3	HYDRANGEA A. 'BAR HARBOR'	BAR HARBOR HYDRANGEA	#5 POT
10	RUDBECKIA H. 'DENVER DAISY'	BLACK-EYED SUSAN	#1 POT
6	SYMPHOTRICHUM 'PURPLE DOME'	PURPLE DOME ASTER	#1 POT
7	VERONICA S. 'PURPLE ILLUSIONS'	PURPLE ILLUSIONS SALVIA	#1 POT
BED #6 (POLLINATOR PLANTS)			
3	HYDRANGEA P. 'LITTLE LIME'	LITTLE LIME HYDRANGEA	#5 POT
6	ALLIUM X. 'MEDUSA'	MEDUSA ORNAMENTAL ONION	#1 POT
7	RUDBECKIA H. 'DENVER DAISY'	BLACK-EYED SUSAN	#1 POT
3	VERONICA S. 'PURPLE ILLUSIONS'	PURPLE ILLUSIONS SALVIA	#1 POT

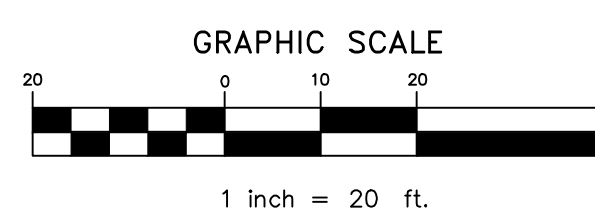
PLANTING SCHEDULE FOR NUMBERED BEDS, CONT'D.

QTY.	BOTANICAL NAME	COMMON NAME	SIZE/COND.
BED #7 (POLLINATOR PLANTS)			
6	ALLIUM X. 'MEDUSA'	MEDUSA ORNAMENTAL ONION	#1 POT
13	ECHINACEA P. 'MY YELLOW DARLING'	PURPLE CONEFLOWER	#1 POT
3	SYMPHOTRICHUM 'PURPLE DOME'	PURPLE DOME ASTER	#1 POT
7	VERONICA X. 'PINK POTION'	PINK POTION SPEEDWELL	#1 POT
BED #8			
3	FOTHERGILLA X. 'BLUE SHADOW'	BLUE SHADOW FOTHERGILLA	#5 POT
10	ALLIUM X. 'MEDUSA'	MEDUSA ORNAMENTAL ONION	#1 POT
10	ECHINACEA P. 'KIMS KNEE HIGH'	PURPLE CONEFLOWER	#1 POT
10	LEUCANTHEMUM X.S. 'BECKY'	BECKY SHASTA DAISY	#1 POT
8	SYMPHOTRICHUM 'PURPLE DOME'	PURPLE DOME ASTER	#1 POT
10	VERONICA X. 'PINK POTION'	PINK POTION SPEEDWELL	#1 POT
BED #9			
14	AGASTACHE X. 'BLUE FORTUNE'	BLUE FORTUNE HYSSOP	#1 POT
10	ALLIUM X. 'MILLENIUM'	MILLENIUM ORNAMENTAL ONION	#1 POT
5	ECHINACEA P. 'MY YELLOW DARLING'	PURPLE CONEFLOWER	#1 POT
10	NEPETA G. 'EARLY BIRD'	EARLY BIRD CATMINT	#1 POT
10	VERONICA X. 'PURPLE ILLUSIONS'	PURPLE ILLUSIONS SPEEDWELL	#1 POT
10	SEDUM SIEBOLDII	OCTOBER DAPHNE SPIREA	#1 POT
BED #10			
7	LIATRIS S. 'KOBOLD'	KOBOLD SPIKED GAYFEATHER	#1 POT
5	STACHYS M. 'HUMMELO'	HUMMELO LAMBS EARS	#1 POT
5	SYMPHOTRICHUM 'PURPLE DOME'	PURPLE DOME ASTER	#1 POT

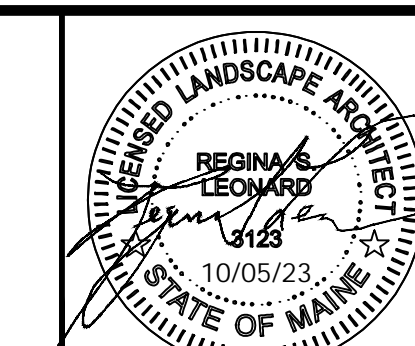
PLANTINGS - BUOY PARK



REVISIONS		DATE	XX
DRAFTED BY: RSL			
CHECKED BY: MJS	DESCR.	XX	
PLAN DATE:	DATE		
OCTOBER 5, 2023	DESCR.		



BUOY PARK LANDSCAPE & MATERIALS PLAN
PRELIM. DESIGN

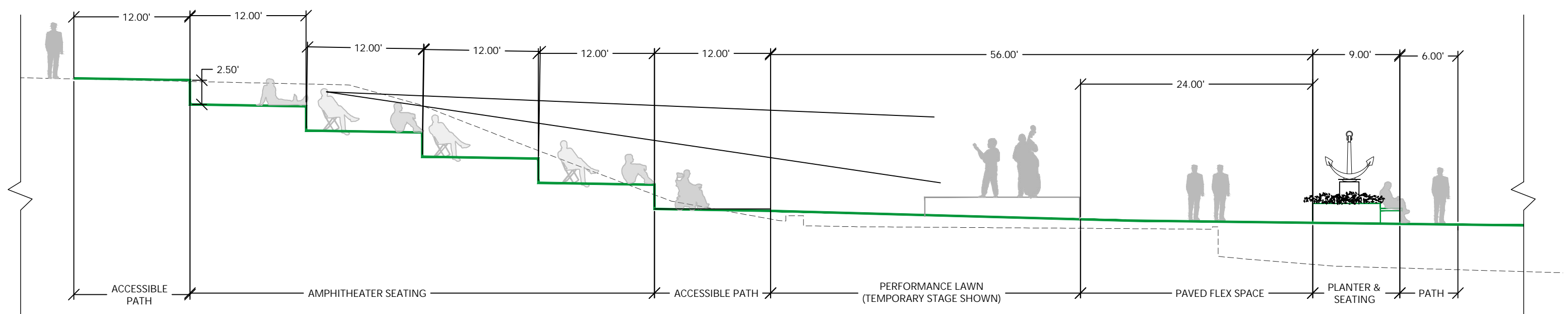
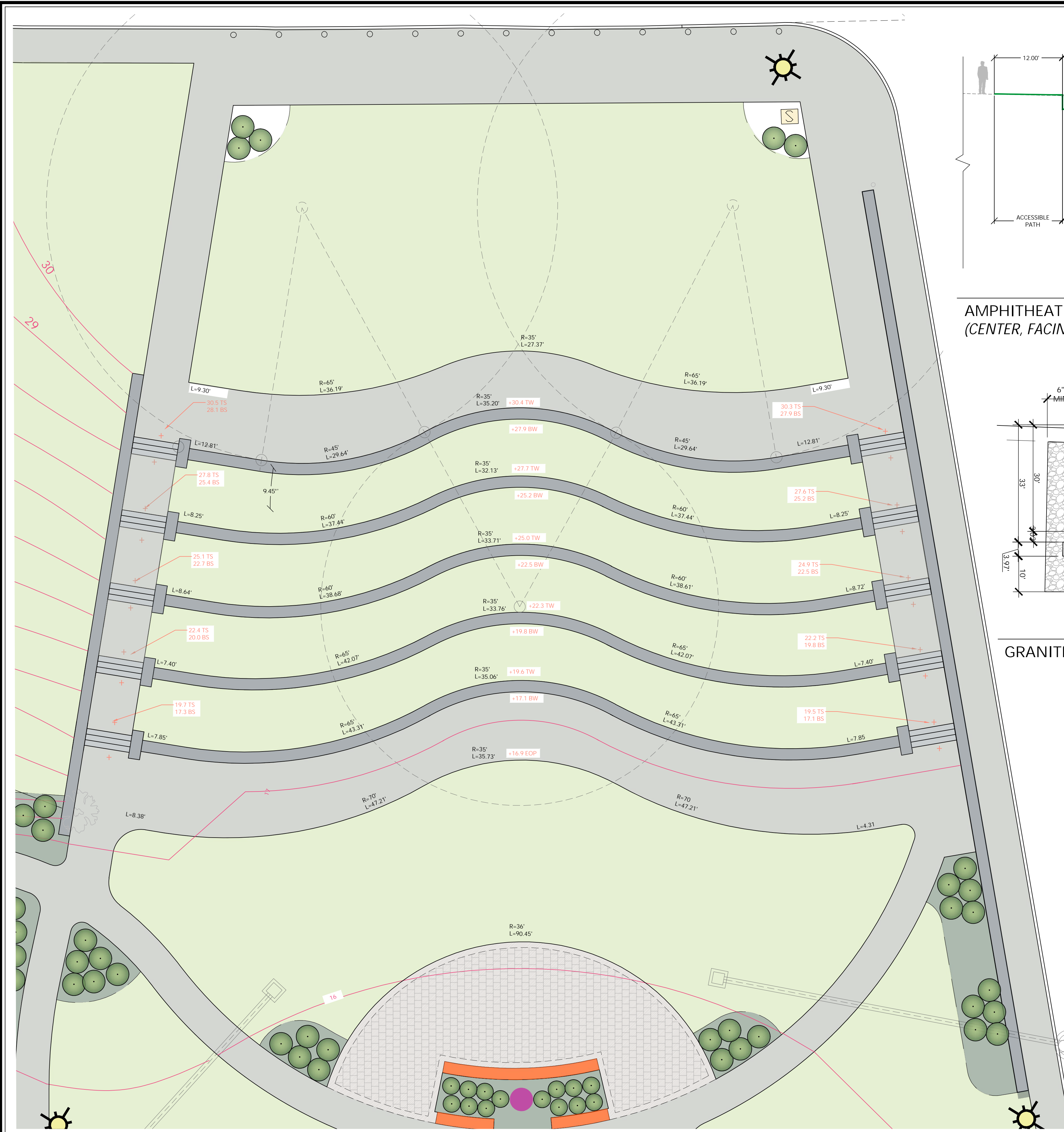


DOWNTOWN WATERFRONT MARINE INFRASTRUCTURE
AT HARBOR AND BUOY PARKS
ROCKLAND, MAINE
KNOX COUNTY

SCALE: AS SHOWN JOB No.: 16-012 SHEET 2 OF 4

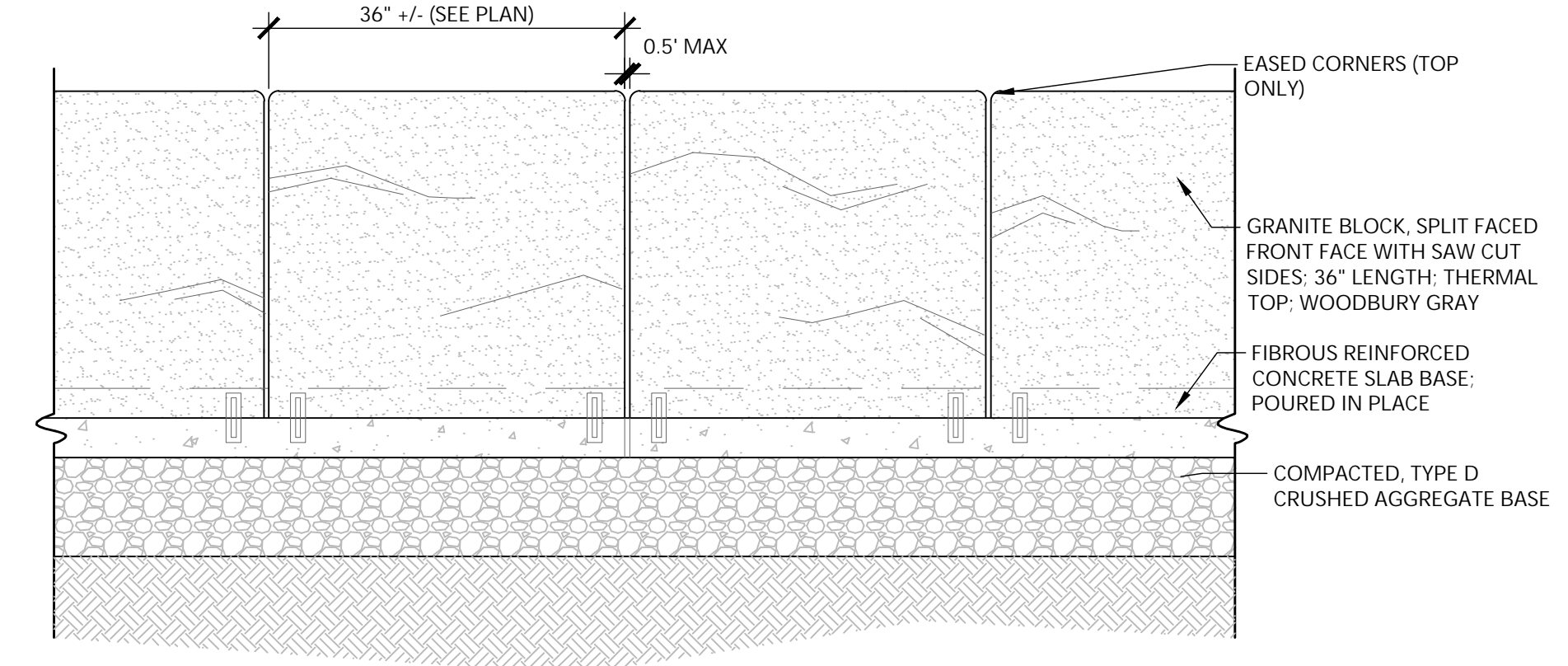
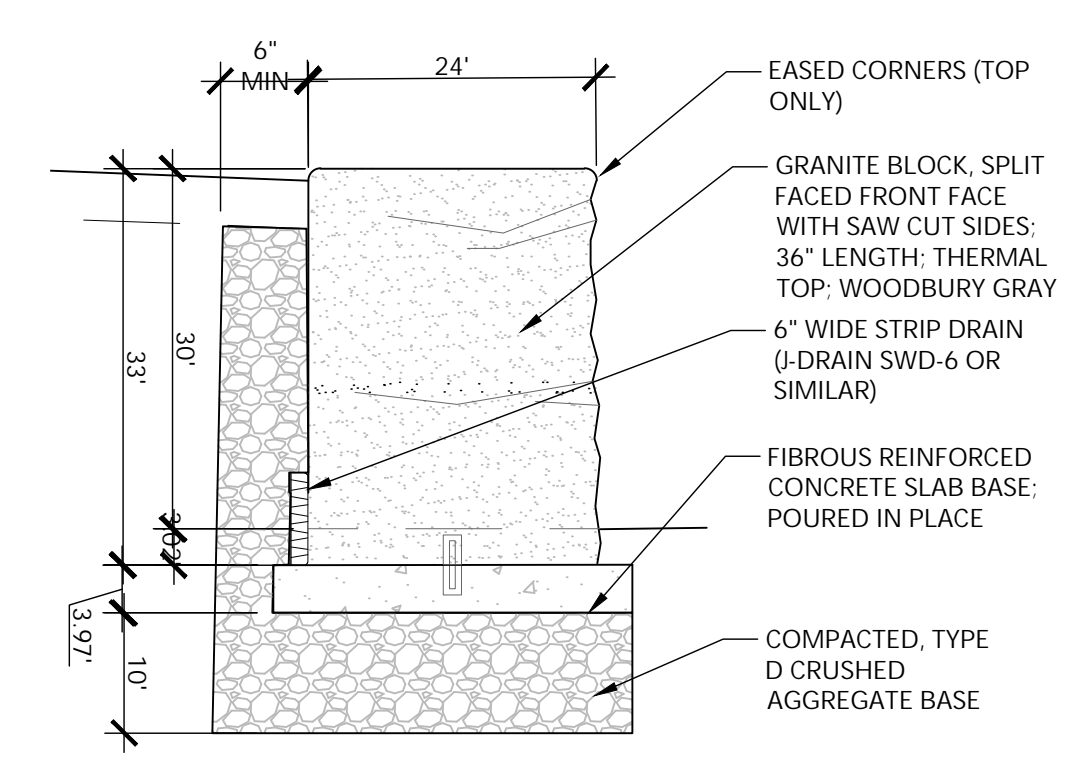
L2

2024RS LEONARD



AMPHITHEATER CROSS SECTION
(CENTER, FACING NORTH)

N.T.S.

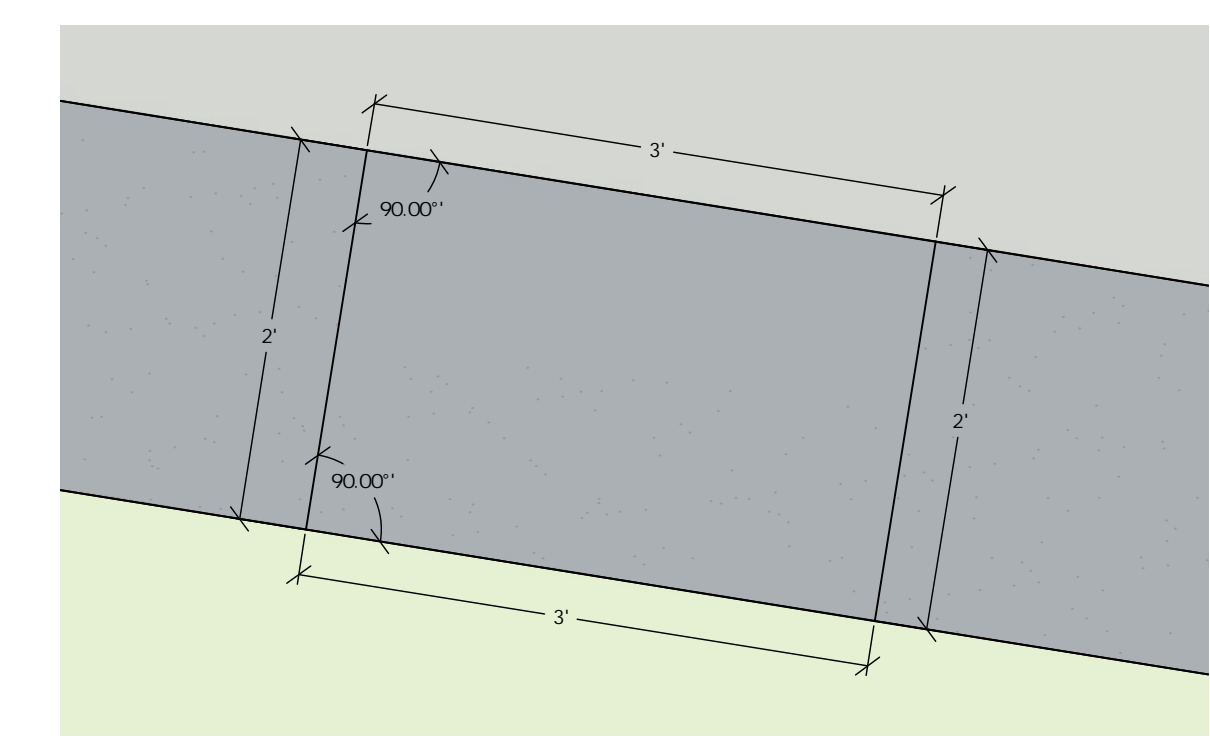


GRANITE SEAT WALL DETAIL

N.T.S.

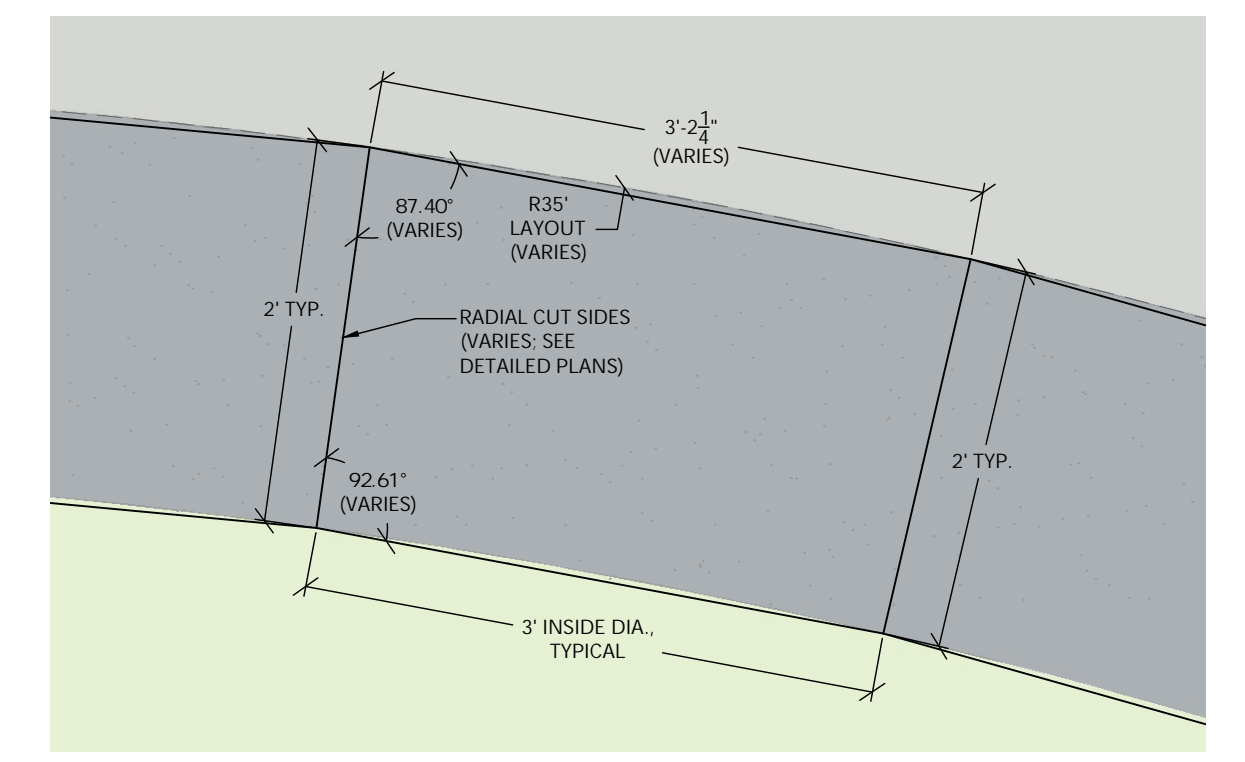
GRANITE SEAT WALL - FRONT ELEVATION

N.T.S.



GRANITE SEAT WALL - DIMENSIONS
(STRAIGHT LAYOUT SEGMENTS)

N.T.S.



GRANITE SEAT WALL - DIMENSIONS
(RADIAL LAYOUT SEGMENTS)

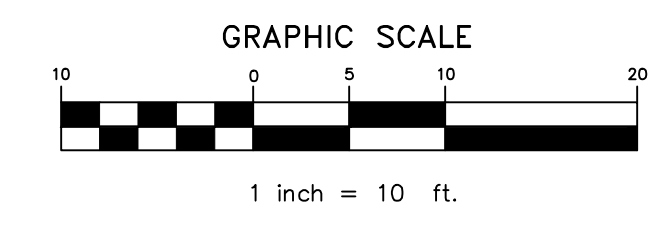
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AMPHITHEATER - PLAN DETAIL

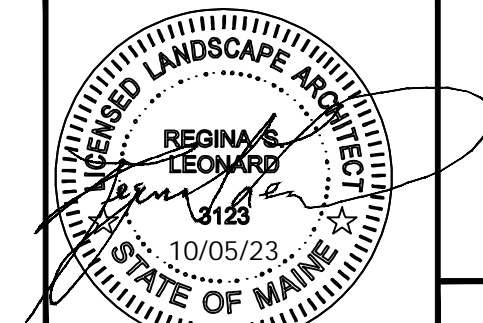
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REVISIONS	
DRAFTED BY: RSL	DATE: XX
CHECKED BY: MJS	DESCR: XX
PLAN DATE: SEPT. 13, 2023	DATE:
	DESCR:

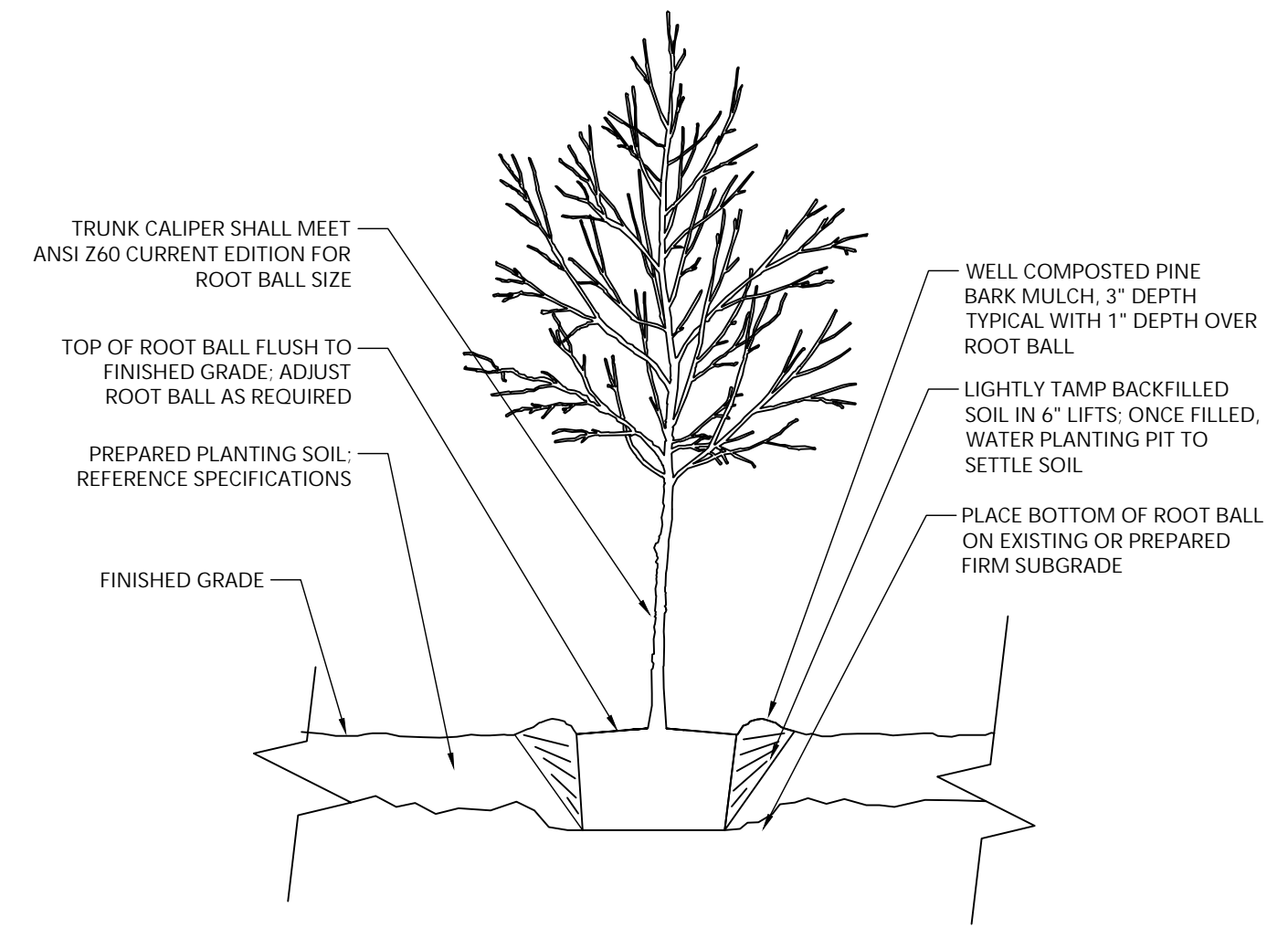


AMPHITHEATER PLAN
PRELIM. DESIGN



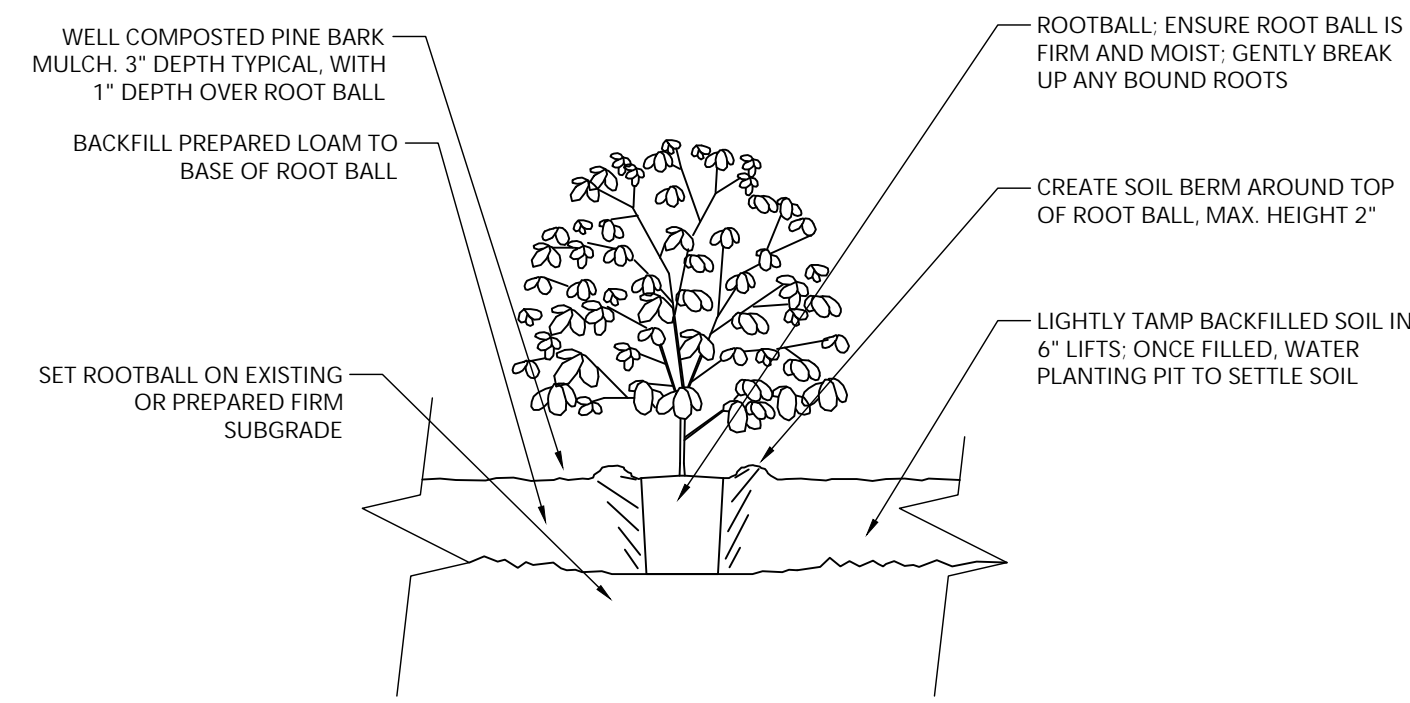
DOWNTOWN WATERFRONT MARINE INFRASTRUCTURE
AT HARBOR AND BUOY PARKS
ROCKLAND, MAINE
KNOX COUNTY

L3



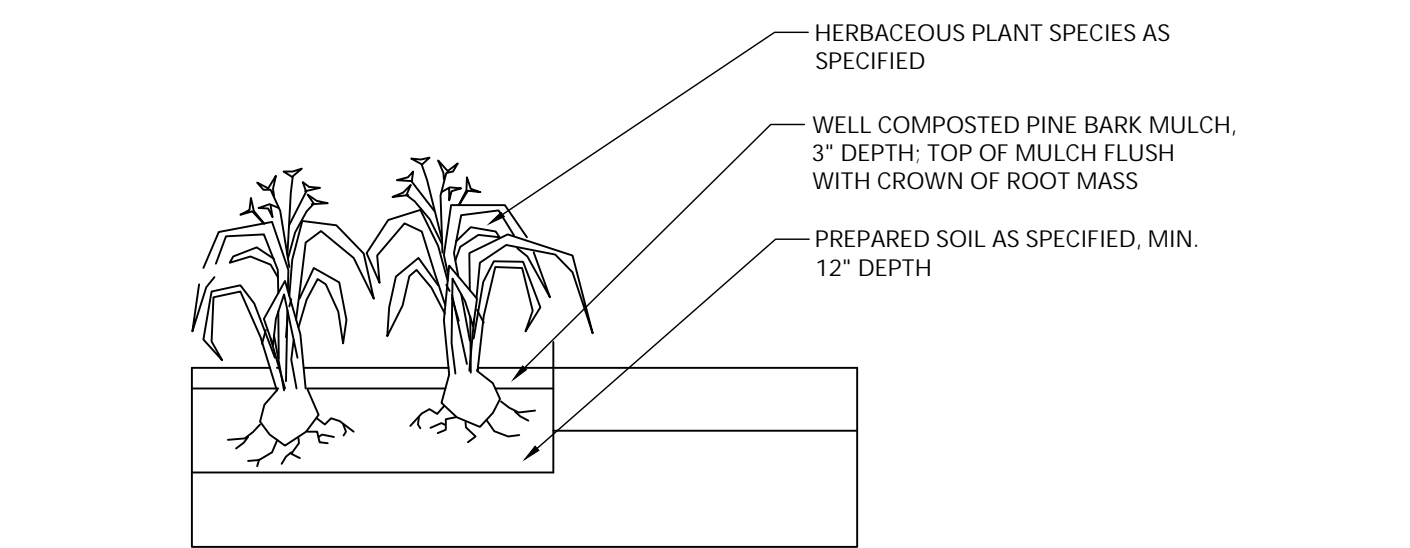
TREE INSTALLATION DETAIL

N.T.S.



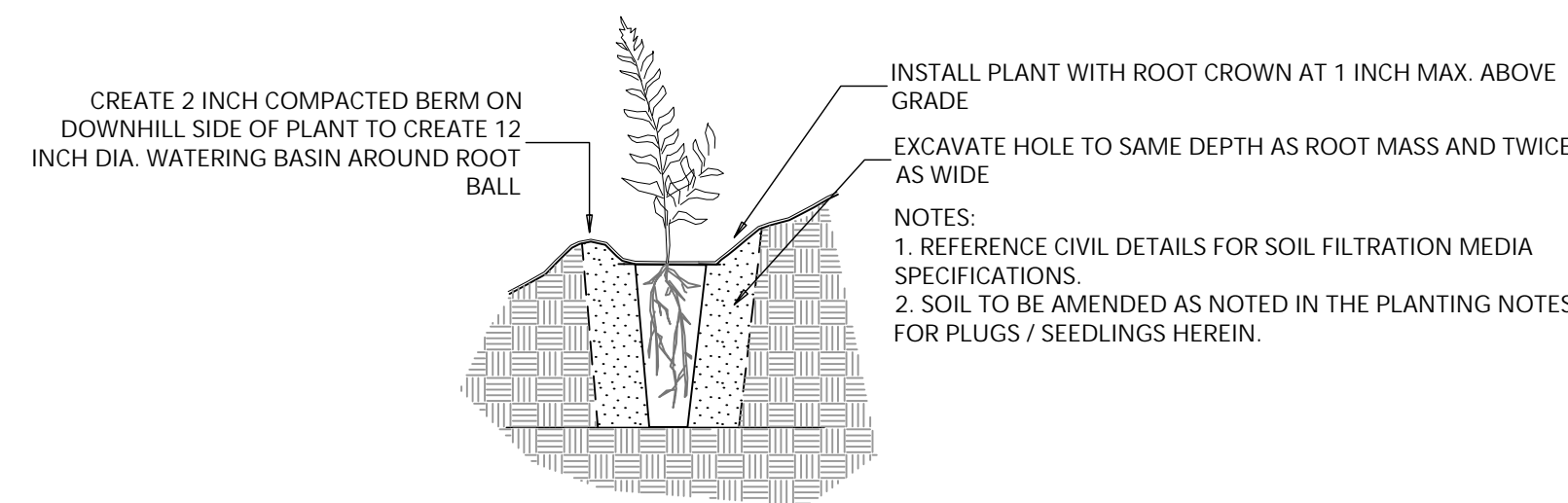
SHRUB INSTALLATION DETAIL

N.T.S.



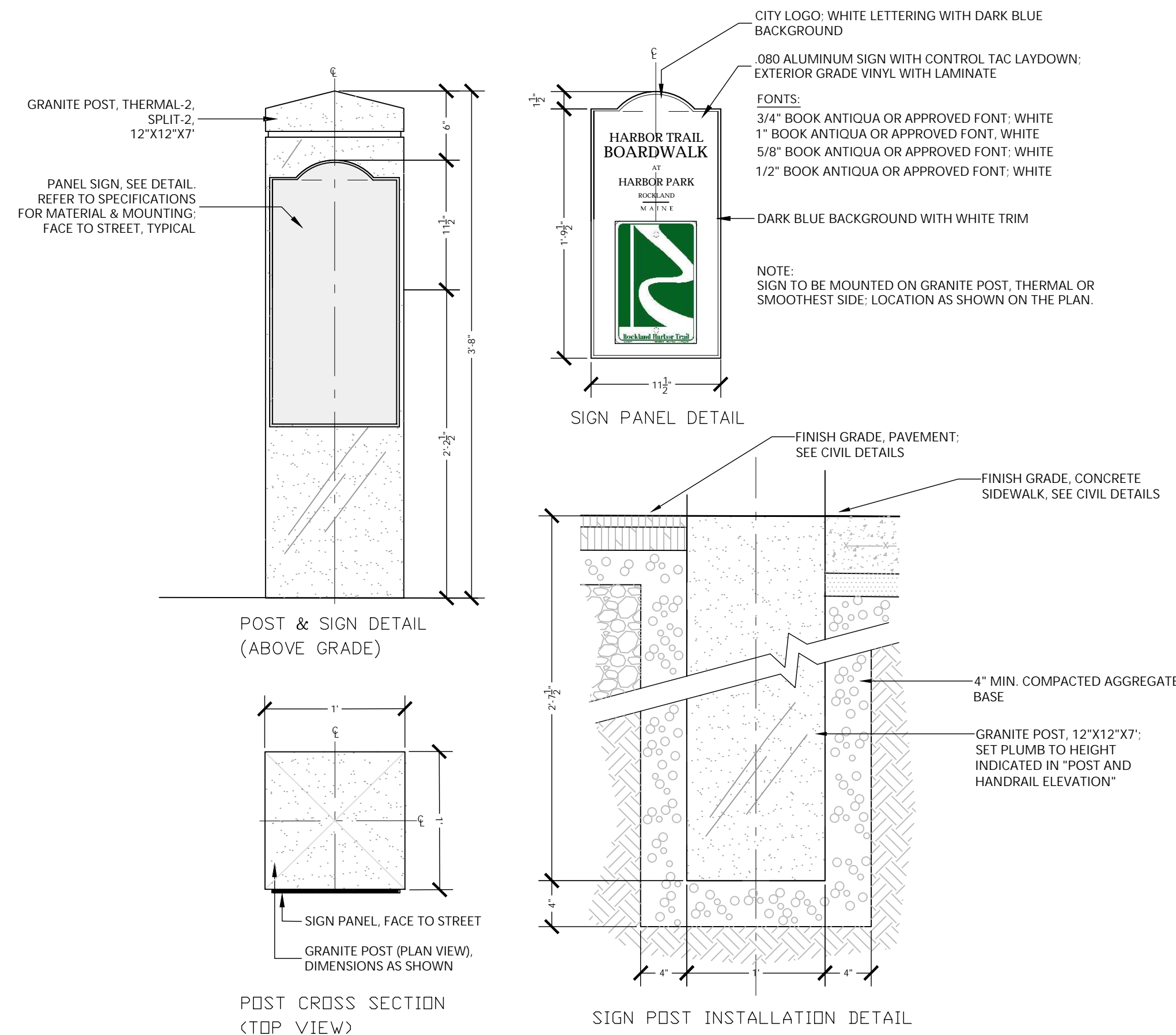
HERBACEOUS PLANT INSTALLATION DETAIL

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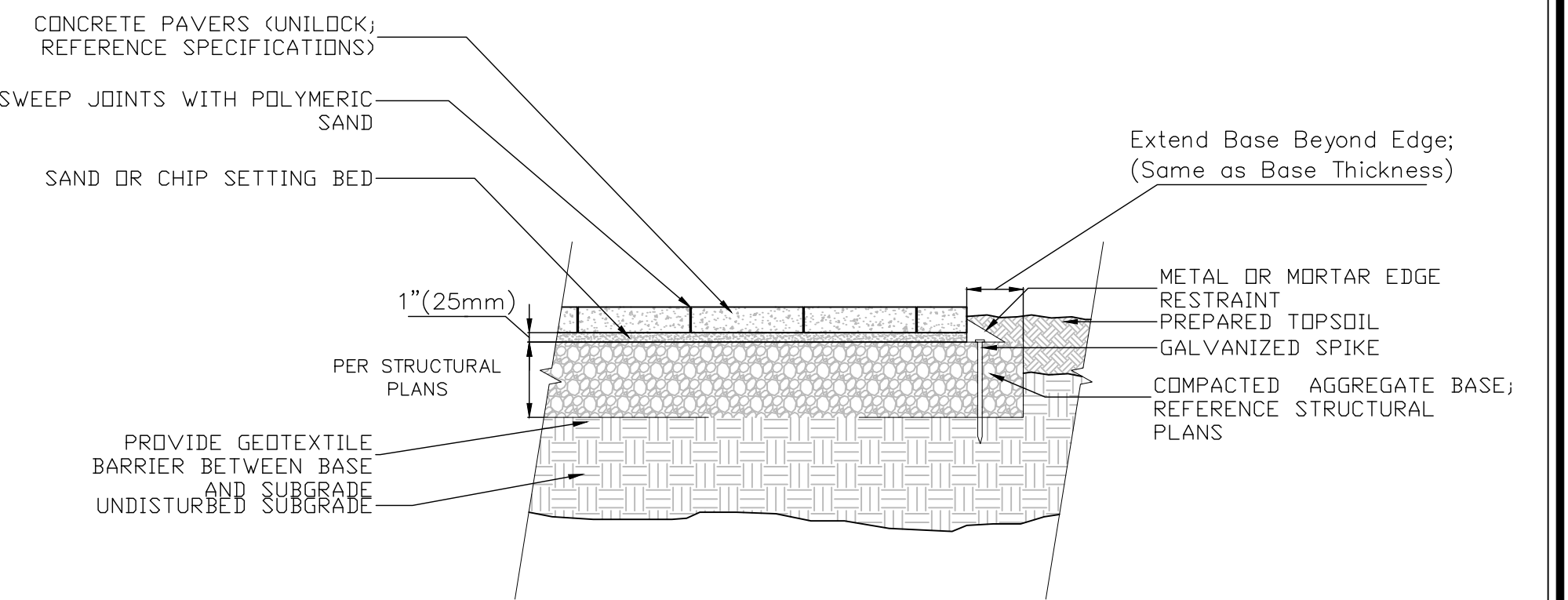
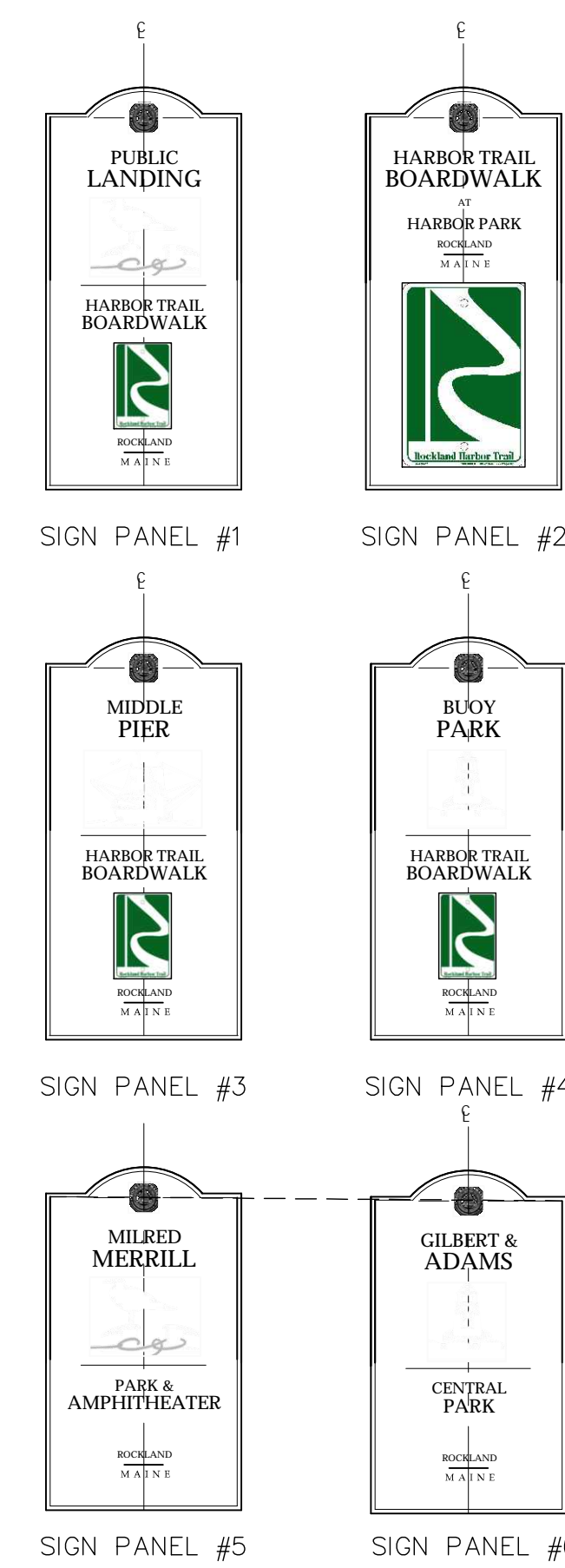
PLUG / SEEDLING INSTALLATION DETAIL

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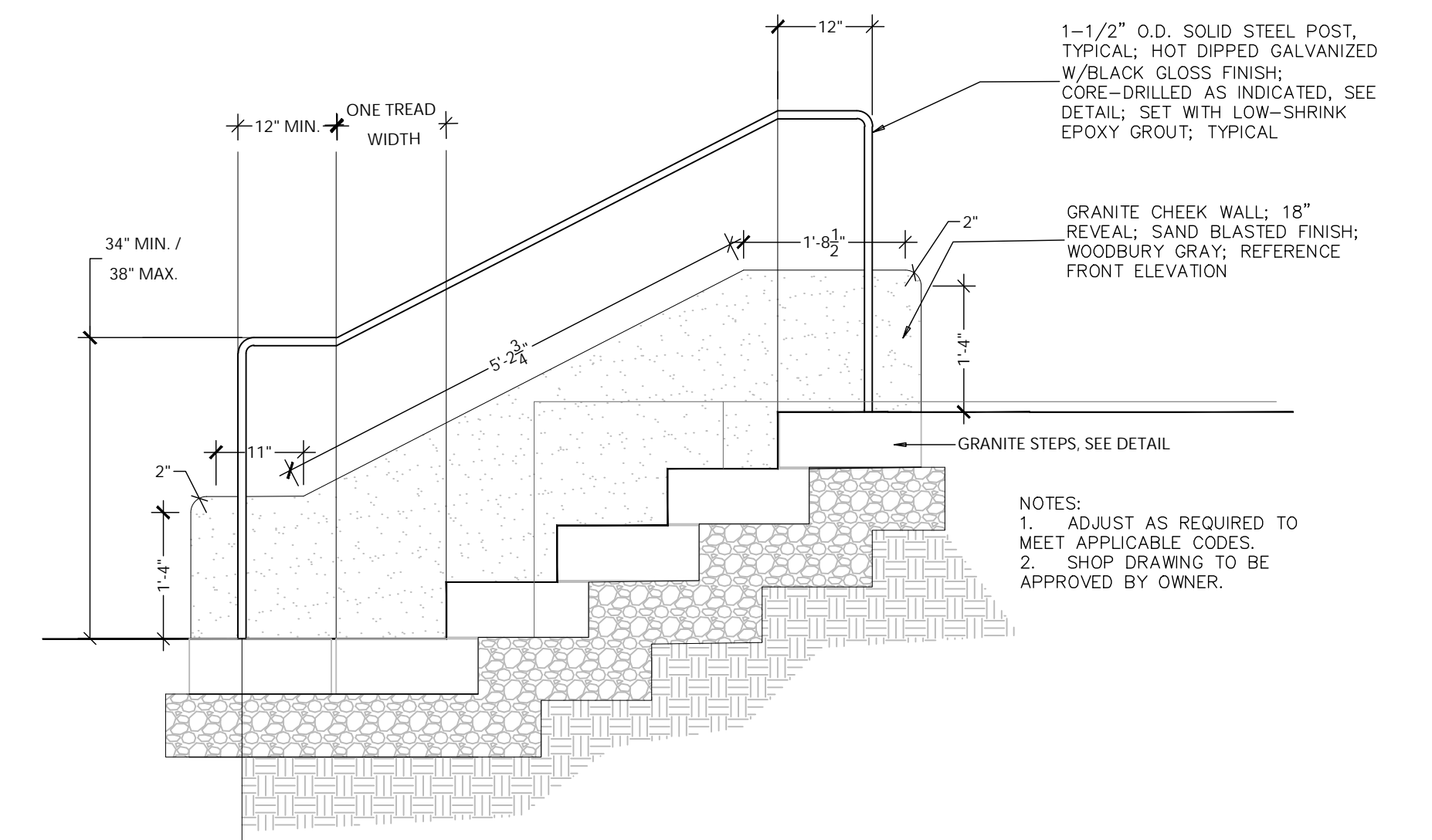
GRANITE SIGN POST & PANEL DETAILS

N.T.S.



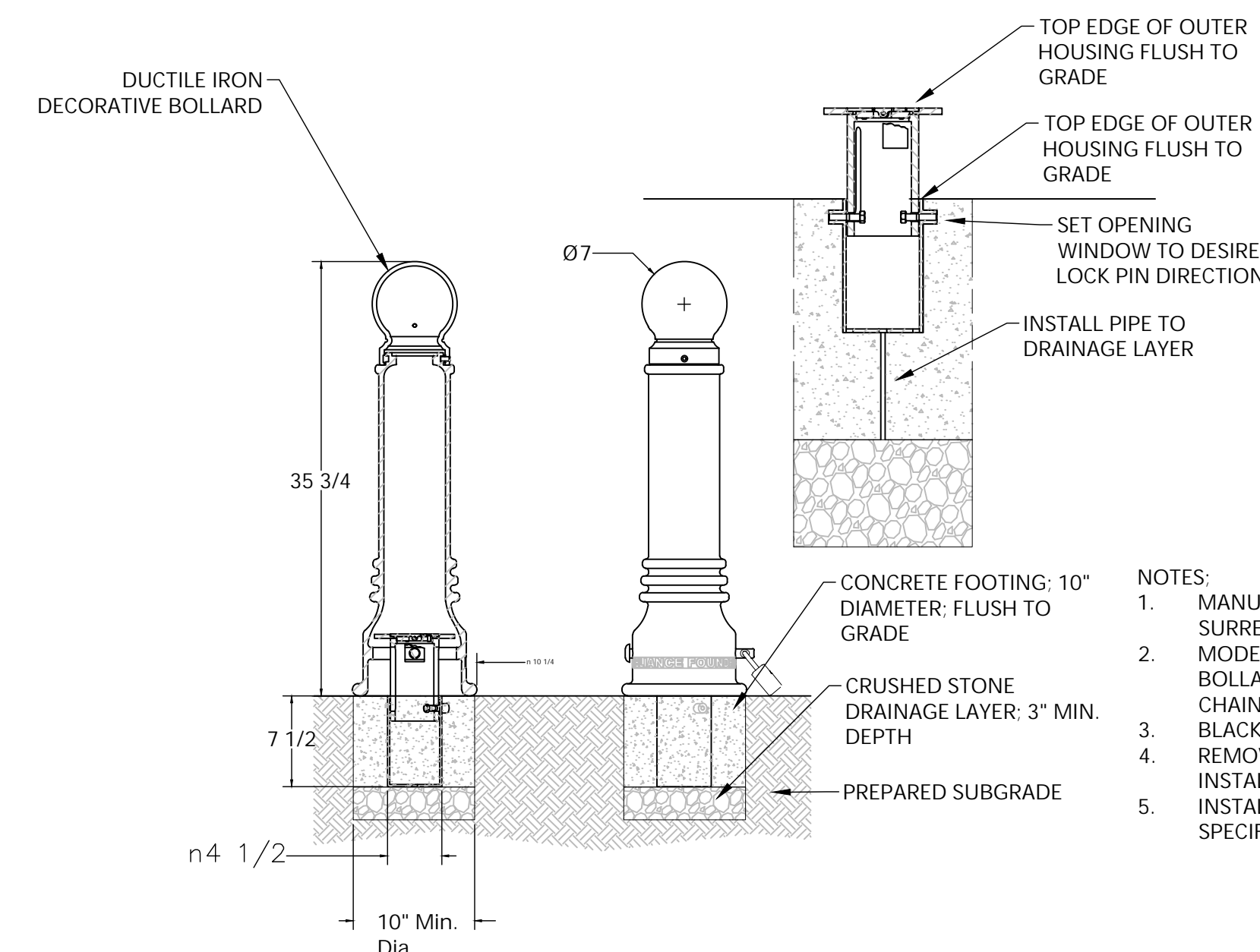
CONCRETE PAVERS ON AGGREGATE BASE DETAIL

N.T.S.



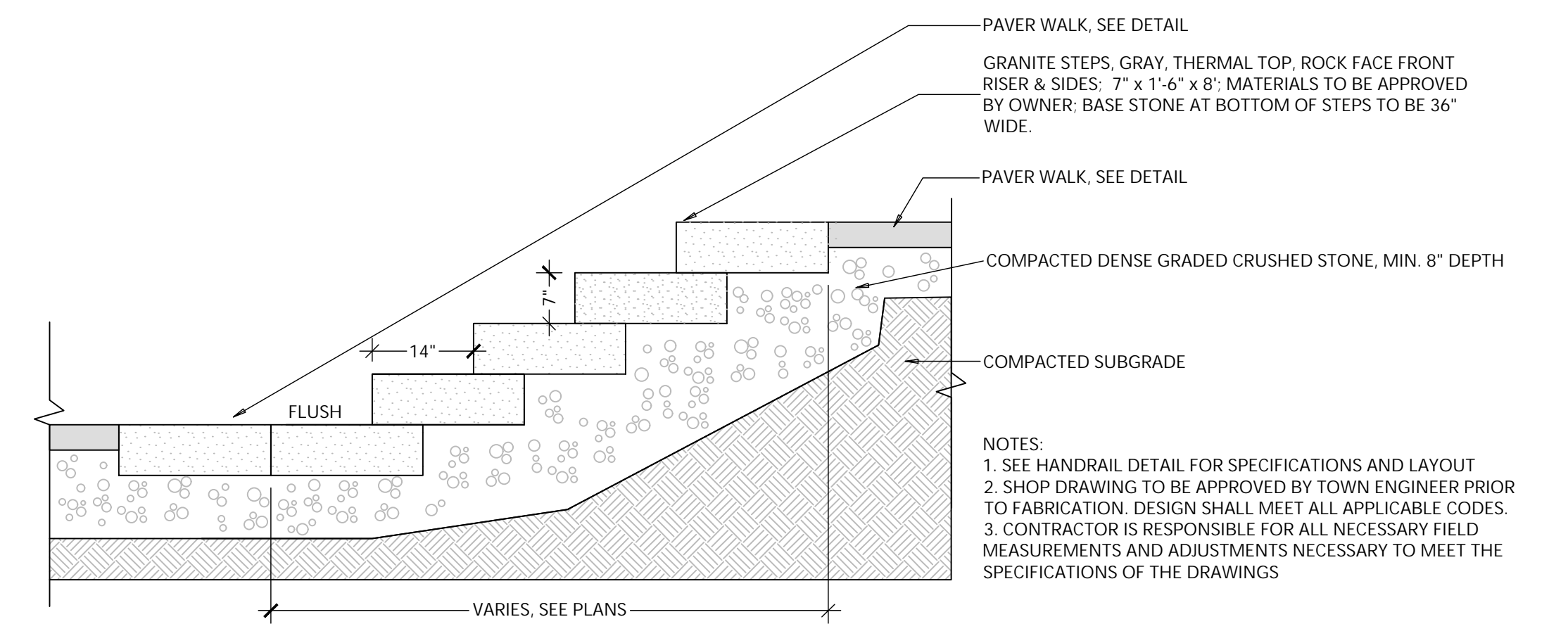
AMPHITHEATER RAILING & CHEEK WALL DETAIL

N.T.S.



REMOVABLE BOLLARD INSTALLATION

N.T.S.



AMPHITHEATER STEPS DETAIL

N.T.S.

REVISIONS		
DRAFTED BY: RSL	DATE	XX
CHECKED BY: MJS	DESCR.	XX
PLAN DATE:	DATE	
SEPT. 13, 2023	DESCR.	

ELECTRICAL LEGEND

GENERAL

□ PANEL
 ↗ HOT LEG
 ↖ HOT LEG WITH NEUTRAL
 ↗ HOT LEG WITH GROUND
 — SWITCH LEG
 ≡ THREE-WAY CIRCUIT
 ↖ CIRCUIT HOME RUN

POWER

□ NON-FUSED DISCONNECT
 ≡ TRANSFORMER
 ⊕ 120V DUPLEX RECEPTACLE
 ● RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER
 ⊞ RECEPTACLE, IN-FLOOR BOX & COVER

ELECTRICAL ABBREVIATIONS

A / AB	ABOVE
AF	AMPERE FRAME
AFF	ABOVE FINISHED GRADE
AFG	ABOVE FINISHED FLOOR
AFI	ARC FAULT INTERRUPTER
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AVAILABLE FAULT CURRENT
AMP	AMPERE
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
BFG	BELOW FINISHED GRADE
BOD	BASIS OF DESIGN
CKT	CIRCUIT
CT	CURRENT TRANSFORMER
DETD	DUAL ELEMENT TIME DELAY
DN	DOWN
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
ECB	ENCLOSED CIRCUIT BREAKER
EDP	ELECTRICAL DATUM PLANE
EMG	EMERGENCY
EQUIP	EQUIPMENT
ETB	ELECTRONIC TRIP BREAKER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFM	GROUND FAULT MONITOR
GFPE	GROUND FAULT PROTECTION OF EQUIPMENT
IPC	INTEGRATED POWER CENTER
KVA	KILOVOLT-AMPERE
KW	KILOWATT
LEUD	LOCAL ELECTRICAL AND UTILITY DEPARTMENT
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCS	MOLDED CASE SWITCH
MDP	MAIN DISTRIBUTION PANEL
MFG	MANUFACTURING
MFR	MANUFACTURER
MIN	MINIMUM
MLO	MAIN LUG ONLY
MOCF	MAIN OVERCURRENT PROTECTION
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
OCF	OVERCURRENT PROTECTION
OH	OVERHEAD
PH / Ø	PHASE
PNL	PANEL
PPC	PORTABLE POWER CABLE
RECP	RECEPTACLE
SCH	SCHEDULE
SER	SERVICE ENTRANCE CONDUCTOR
SPD	SURGE PROTECTIVE DEVICE
ST	SHUNT TRIP
TEL	TELEPHONE
TMB	THERMAL MAGNETIC BREAKER
TYP	TYPICAL
U / UC	UNDER / UNDER CABINET
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
US	UNDERSLAB
UV	UNDERWATER
V	VOLT
VA	VOLT-AMPERE
W	WATT
WR	WEATHER-RESISTANT
WRI	WEATHER-RESISTANT, IN-USE

WIRING COLOR CODE

CONDUCTOR	COLOR
120/208 (240)	
PHASE A	BLACK
PHASE B	RED
PHASE C (3Ø ONLY)	BLUE
NEUTRAL	WHITE
GROUND	GREEN
277/480	
PHASE A	BROWN
PHASE B	ORANGE
PHASE C (3Ø ONLY)	YELLOW
NEUTRAL	GRAY
GROUND	GREEN

CALL BEFORE YOU DIG

www.call811.com

THE CONTRACTOR SHALL NOTIFY ALL UTILITIES INCLUDING AND NOT LIMITED TO GAS, WATER, ELECTRIC, CABLE, AND TELEPHONE COMPANIES PRIOR TO ANY EXCAVATION. THE CONTRACTOR SHALL NOTIFY ONE-CALL SERVICE (CALL 811) SEVENTY-TWO (72) HOURS AS REQUIRED BY LAW BEFORE ANY EXCAVATION, AT ANY LOCATION.



ELECTRICAL NOTES

- APPLICABLE CODES INCLUDE, BUT ARE NOT RESTRICTED TO, THE LATEST ADOPTED VERSIONS OF THE FOLLOWING CODES AT THE TIME OF THE PLAN DATE:
 - NFPA 70 NATIONAL ELECTRIC CODE
 - INTERNATIONAL BUILDING CODE
 - UL UNDERWRITERS LABORATORY
 - NEMA
- ELECTRICAL SYSTEM(S) SHALL BE INSTALLED COMPLETE WITH ALL WORK, MATERIALS, AND EQUIPMENT CUSTOMARILY CONSIDERED PART OF SUCH WORK FOR A FULLY OPERATIONAL, COMPLETE, AND CODE COMPLIANT SYSTEM.
- PLANS ARE DIAGRAMMATIC AND ARE PROVIDED ONLY TO SHOW GENERAL SYSTEM. CONTRACTOR SHALL CONSIDER ACTUAL FIELD CONDITIONS DURING INSTALLATION. ANY GROSS INTERFERENCE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE CONTINUING.
- ALL ELECTRICAL CONNECTIONS SHALL BE MOUNTED ABOVE ELECTRICAL DATUM PLANE.
- COORDINATE FINAL LOCATIONS OF ALL SWITCHES AND OUTLETS WITH OWNER. OWNER SHALL RETAIN RIGHT TO MAKE MINOR LOCATION ADJUSTMENTS PRIOR TO EQUIPMENT INSTALLATION WITHOUT ADDITIONAL COST.
- ALL 3Ø CIRCUITS SHALL HAVE A-B-C PHASE ROTATION. ALL 3Ø ELECTRICAL SWITCHGEAR, SWITCHBOARDS, MCC'S, AND SIMILAR EQUIPMENT SHALL HAVE A-B-C PHASE ROTATION FROM LEFT TO RIGHT. REFER TO THE POWER WIRING COLOR CODE ON THIS SHEET.
- VERIFY AVAILABLE CIRCUIT CURRENT WITH ELECTRICAL POWER SUPPLIER.
- PROVIDE COMPLETE AND COMPLIANT EQUIPMENT AND SYSTEM GROUNDING THROUGHOUT ELECTRICAL INSTALLATION. INSTALL BONDING JUMPERS TO OUTLET BOXES IN METALLIC CONDUIT SYSTEMS.
- UNLESS OTHERWISE NOTED, EACH CONDUIT OR RACEWAY SHALL CONTAIN ONLY A SINGLE CIRCUIT.
- ALL EXTERIOR EQUIPMENT SHALL BE NEMA 3R RAIN TIGHT.
- WITH ALL LIGHTING AND MOTOR LOADS OPERATING, CONTRACTOR SHALL VERIFY THAT THE PHASE BALANCE IN EACH PANEL IS WITHIN 5%.
- COMPLETE ELECTRICAL SYSTEMS SHALL BE TESTED FOR COMPLIANCE AND FUNCTION IN ACCORDANCE WITH LOCAL INSPECTIONS AND NATIONAL CODES.
- CONTRACTOR SHALL INSTALL EXPANSION AND DEFLECTION CONDUIT FITTINGS PER NEC 300.7(B), PLANS, AND SPECIFICATIONS.
- THE AMPACITY, VOLTAGE, AND PHASE OF ALL DISCONNECTS SHALL BE RATED PER THE SPECIFIED CIRCUIT AND UPSTREAM OVERCURRENT PROTECTION UON. THE ENCLOSURE NEMA RATING SHALL BE COORDINATED AS REQUIRED BY THE ENVIRONMENT.
- IF DISCREPANCIES EXIST WITHIN THE PLANS AND/OR SPECIFICATIONS, THE MOST STRINGENT SHALL APPLY AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BRING IT TO THE ATTENTION OF THE ENGINEER BEFORE WORK IS STARTED OR MATERIAL/EQUIPMENT IS ORDERED.
- THE PLANS AND SPECIFICATIONS FOR THIS WORK HAVE BEEN PREPARED WITH THE INTENT TO BE AS ACCURATE AND COMPLETE AS PRACTICAL, BUT ERRORS, OMISSIONS, AND CONFLICTS MAY EXIST. PRIOR TO SUBMITTING A BID FOR CONSTRUCTING THE WORK, THE CONTRACTOR SHALL REVIEW THE PLANS AND SPECIFICATIONS IN DETAIL. ANY QUESTIONS OR COMMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO SUBMITTING A BID. BY SUBMITTING A BID FOR THE WORK, THE CONTRACTOR ACKNOWLEDGES THAT HE HAS REVIEWED THE PLANS AND SPECIFICATIONS, UNDERSTANDS THE DESIGN INTENT, AND DOES NOT HAVE ANY FURTHER QUESTIONS OR COMMENTS.
- CONTRACTOR SHALL FIELD VERIFY THAT ALL PARALLEL CONDUCTOR RUNS OF SERVICE ENTRANCE OR FEEDER CONDUCTORS FOR EACH CIRCUIT FOLLOW THE SAME PATH AND ARE OF EQUAL LENGTH.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITY FEES AND CHARGES FOR INSTALLATION AND UTILITY UPGRADES FOR PROJECT.
- CONTRACTOR SHALL COORDINATE AND PAY FOR ALL PERMITS, INSPECTION FEES, UTILITY FEES, AND UTILITY CHARGES FOR THIS PROJECT.
- CONTRACTOR SHALL WARRANTY ALL SYSTEMS FOR PARTS, EQUIPMENT, MATERIAL, AND LABOR FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.
- THE OWNER AND/OR OWNER'S REPRESENTATIVE SHALL INSPECT THE INSTALLATION AT SUBSTANTIAL COMPLETION AND AT ONE YEAR FROM SUBSTANTIAL COMPLETION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CORRECTIONS THAT DO NOT CONFORM TO THE CODE AND/OR THE CONTRACT DOCUMENTS.
- KELLEMS GRIPS SHALL BE INSTALLED WITH THE GRIP IS ALIGNED WITH THE CABLE TO AVOID ANY PRESSURE POINTS ANYWHERE ALONG THE LENGTH OF THE GRIP. THIS INCLUDES INSTALLATION PROJECTS WHERE TIDAL ACTION MAY CHANGE THE ANGLE OF THE CABLE IN REFERENCE TO THE GRIP POSITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBSERVING AND MAKING ANY ADJUSTMENTS TO THE GRIP MOUNTING POSITION AND CABLE LENGTHS AS REQUIRED TO MITIGATE PRESSURE POINTS AT LOW AND HIGH TIDES. REFER TO PLANS AND DETAILS WHERE THE GRIPS ARE INDENOTED TO BE INSTALLED. ALL KELLEMS GRIPS, SUPPORT CABLE, AND MOUNTING HARDWARE SHALL BE STAINLESS STEEL.
- LABEL REQUIREMENTS:
 A. ALL ELECTRICAL EQUIPMENT SHALL BE AFFIXED WITH A PERMANENT LABEL STATING THE EQUIPMENT NAME, VOLTAGE AND PHASE CLASS, AMPACITY, AND WHERE THE EQUIPMENT IS FED FROM.
 B. PANEL DIRECTORIES SHALL BE TYPED SHOWING EACH BRANCH BREAKER LOAD AS SHOWN IN THE PANEL SCHEDULES.
 C. EACH SHORE POWER PEDESTAL SHALL BE LABELED WITH THE UPSTREAM CIRCUIT AND PANEL.
- CONTRACTOR SHALL CARRY CONTINGENCY IN THE AMOUNT OF 10% OF BID.
- SUBMITTAL REQUIREMENTS: CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER FOR REVIEW AND APPROVAL DETAILED PRODUCT INFORMATION ON ALL EQUIPMENT INCORPORATED IN THE PROJECT RELATED TO THE SPECIFIC CONTRACTOR TRADE. SUBMITTAL SHALL BE PROVIDED, AND ENGINEER SHALL REVIEW AND APPROVE, PRIOR TO EQUIPMENT PURCHASE. FOUR COPIES OF SUBMITTALS SHALL BE PROVIDED TO THE ENGINEER. TWO COPIES SHALL BE RETURNED TO THE CONTRACTOR. PRIOR TO SUBMITTAL, CONTRACTOR SHALL REVIEW AND CERTIFY BY SIGNATURE THE SUBMITTED EQUIPMENT MEETS SPECIFICATION. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DIMENSIONS, FITTINGS, AND CONSTRUCTION FEATURES RELATIVE TO EQUIPMENT. APPROVAL OF SUBMITTAL INFORMATION BY THE ENGINEER ONLY REFERS TO MATERIALS, DESIGN, AND ADHERENCE TO SPECIFICATIONS.

SERVICE ENTRANCE CONDUCTOR & CONDUIT LEGEND

ALL WIRE SIZED FOR THWN COPPER
 ALL CONDUIT SIZED FOR RIGID PVC, SCHEDULE 40; RESIZE FOR DIFFERENT CONDUIT AS REQUIRED

LABEL	GROUNDING ELECTRODE CONDUCTOR	CONDUCTORS PER CONDUIT	NUMBER OF RUNS	MINIMUM CONDUIT	CONDUCTOR AMPACITY 75 °C	Ø	VOLTAGE RANGE
1S60	#8	(3) #6	1	2"	65	1	208 - 480
1S100	#8	(3) #3	1	3"	100	1	208 - 480
1S150	#6	(3) #1/0	1	3"	150	1	208 - 480
1S200	#4	(3) #3/0	1	3"	200	1	208 - 480
1S225	#2	(3) #4/0	1	3"	230	1	208 - 480
1S400	#1/0	(3) #3	2	3"	400	1	208 - 480
1S400	#1/0	(3) #600 KCM	1	4"	420	1	208 - 480
1S600	#3/0	(3) #3/0	3	3"	600	1	208 - 480
1S600	#3/0	(3) #350 KCM	2	3"	620	1	208 - 480
1S800	#3/0	(3) #3/0	4	3"	800	1	208 - 480
1S800	#3/0	(3) #300 KCM	3	3"	855	1	208 - 480
1S1000	#3/0	(3) #250 KCM	4	3"	1020	1	208 - 480
1S1200	#3/0	(3) #350 KCM	4	3"	1240	1	208 - 480
3S200	#4	(4) #3/0	1	3"	200	3	208 - 480
3S225	#2	(4) #4/0	1	3"	230	3	208 - 480
3S400	#1/0	(4) #3/0	2	3"	400	3	208 - 480
3S600	#3/0	(4) #350 KCM	2	3"	620	3	208 - 480
3S800	#3/0	(4) #300 KCM	3	3"	855	3	208 - 480
3S1000	#3/0	(4) #400 KCM	3	3"	1005	3	208 - 480

GROUND FAULT MONITOR SCHEDULE

- MANUFACTURER SHALL PROGRAM ALL PARAMETERS PER THE DESIGN AND SHALL SET TIME AND DATE FOR THE PROJECT'S TIME ZONE
- SEE CIRCUIT SCHEDULES FOR TRIP SETTINGS
- CT SENSORS TO BE USED AS REQUIRED TO CONTROL SHUNT TRIP BREAKERS
- SPARE CHANNELS SHALL BE DISABLED
- USE SPECIFIED EQUIPMENT OR APPROVED EQUAL
- SHALL HAVE LOCKABLE DOOR
- SEE GROUND FAULT MONITOR WIRING DETAIL

LABEL	LOCATION	MANUFACTURER	RELAY MODEL	INPUTS / OUTPUTS	ENCLOSURE	NOTES
G1	HARBOR PARK	BENDER	RCM420	1	SS1	LISTED ASSEMBLY
G3	MIDDLE PIER	BENDER	RCMS490	12	SS3	LISTED ASSEMBLY
G2	PUBLIC LANDING	BENDER	RCMS490	12	SS2	LISTED ASSEMBLY

SUB-STATION SCHEDULE

- NEMA 3R, ALUMINUM, WHITE
- USE AMERICAN MIDWEST POWER OR APPROVED EQUAL
- SEE ONE-LINE & SCHEDULES

SS1	TRANSFORMER	T1
	PANEL	H1
	PANEL	L1
	GFM	G1
SS2	TRANSFORMER	T2
	PANEL	H2
	PANEL	L2
	GFM	G2
SS3	TRANSFORMER	T3
	MCS	M3
	PANEL	L3
	GFM	G3

ELECTRICAL MATERIALS SCHEDULE - MARINA

* ALL NONMETALLIC MATERIAL SHALL BE UV-RESISTANT

DESCRIPTION	MATERIAL	STANDARDS	REMARKS
BOXES			
PULL / JUNCTION / OUTLET BOX	GALVANIZED STEEL	UL 731A	* 1 1/2" MINIMUM DEPTH COORDINATE SIZE WITH NEC COORDINATE COVER MATERIAL & COLOR W/ ARCH/OWNER
WIRE / CABLE			
#10 & SMALLER	600-VOLT THWN THWN-2 AS NOTED	UL 83	* SOLID OR STRANDED AS REQUIRED BY EQUIPMENT MANUFACTURER * TINNED SOFT * DRAWN COPPER
#8 & LARGER	600-VOLT THWN THWN-2 AS NOTED	UL 83	* STRANDED * TINNED SOFT * DRAWN COPPER
TYPE "W" / "G" / "G-GC" MARINE CABLE	105°C 2000-VOLT	UL 83	* USE FOR UNDERWATER FEEDER * STRANDED * TINNED SOFT * DRAWN COPPER * EXTRA HARD USE * SUN LIGHT RESISTANT * OIL, GAS, AND CHEMICAL RESISTANT
WET-LISTED MC CABLE	600-VOLT		* PVC JACKET
CONDUIT			
RIGID	GALVANIZED STEEL	HH 9359	* USE ABOVE OR BELOW GROUND
PVC	SCHEDULE 40 / 80 PVC	NEMA TC-2	* USE SCHEDULE 40 IN PROTECTED DOCK STRUCTURE OR UNDERGROUND / UNDERWATER / UNDERDECK * USE SCHEDULE 80 ABOVE THE DECK AND ABOVE GROUND UP TO 6'
EMT	GALVANIZED DUCTILE STEEL	HE 8141	* ELECTRIC METALLIC TUBING - USE IN DRY OF FLOATING BUILDINGS
LFNC	LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT		* LISTED FOR DIRECT BURIAL - INSTALL WHERE NOT SUBJECT TO PHYSICAL DAMAGE AND NOT ABOVE THE DECK
HDPE	HIGH-DENSITY POLYETHYLENE		* INSTALL UNDERGROUND FOR SERVICE AND FEEDER CONDUCTORS WHERE NOT SUBJECT TO PHYSICAL DAMAGE
CONDUIT HANGERS / STRAPS			
UP TO 3/4"	GALVANIZED STEEL		* 4'-0" O/C MAXIMUM
1" TO 1-1/4"			* 6'-0" O/C MAXIMUM
1-1/2" & UP			* 8'-0" O/C MAXIMUM
CABLE SUPPORT			
KELLEMS CABLE GRIPS	STAINLESS STEEL		* COORDINATE SIZE AND STYLE FOR PROPER CABLE OR CONDUIT

TRANSFORMER SCHEDULE

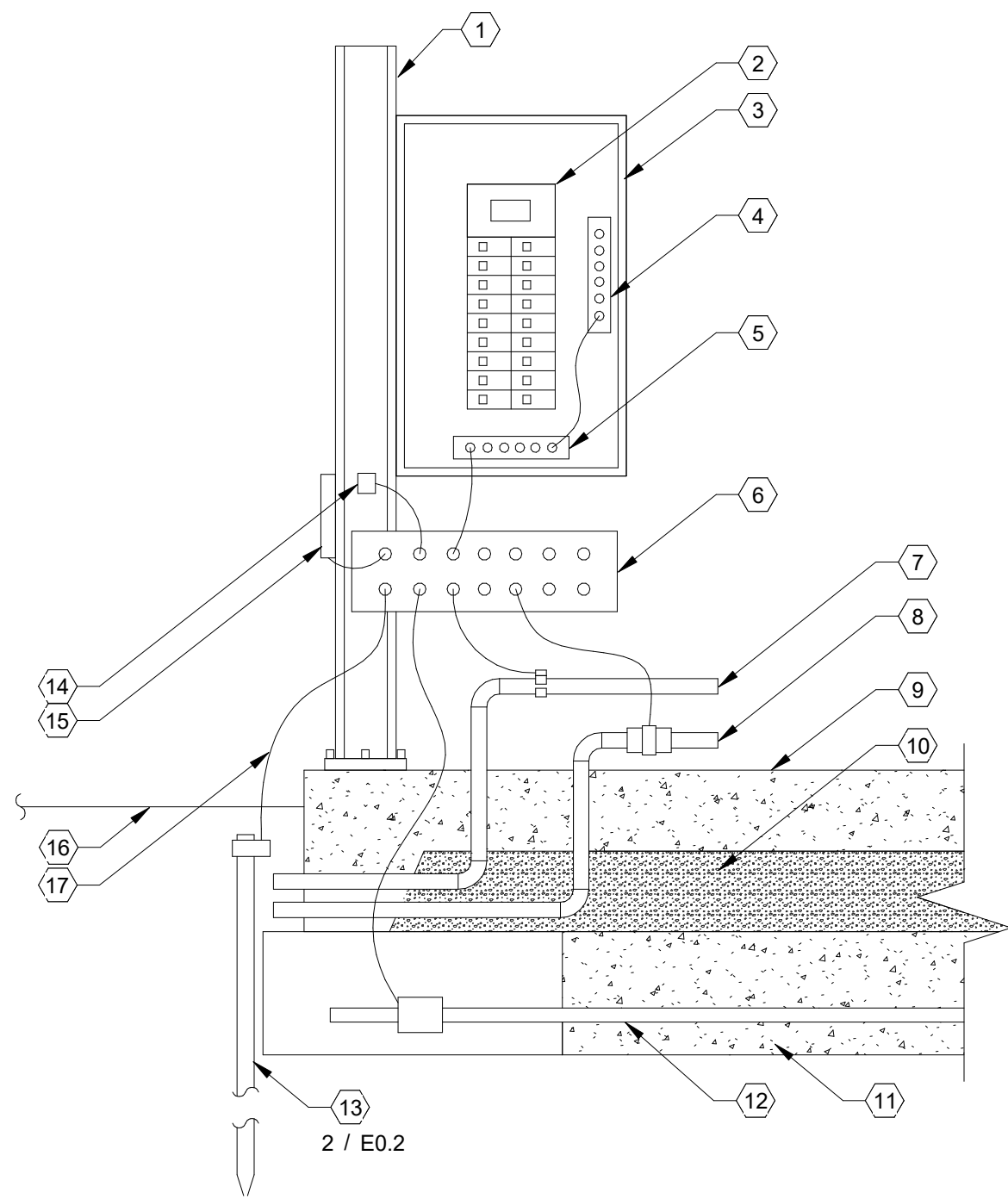
- USE SPECIFIED EQUIPMENT OR EQUAL

LABEL	LOCATION	ENCLOSURE	TYPE	DOUBLE LUG	PRIMARY VOLTS	Ø WINDING	SECONDARY VOLTS	Ø WINDING
T1	HARBOR PARK	SS1	DRY	N	480	1	240	1
T2	MIDDLE PIER	SS2	DRY	N	480	1	240	1
T3	PUBLIC LANDING	SS3	DRY	N	480	1	240	1

BRANCH CIRCUIT AND FEEDER LEGEND W/ EQUIP. GND.

ALL WIRE SIZED FOR THWN COPPER
 ALL CONDUIT SIZED FOR RIGID PVC, SCHEDULE 40; RESIZE FOR DIFFERENT CONDUIT AS REQUIRED
 FEEDER LABEL WITH * IN THE PLANS INDICATES NEUTRAL IS NOT REQUIRED

LABEL	CONDUCTORS PER CONDUIT	NUMBER OF RUNS	MINIMUM CONDUIT	CONDUCTOR AMPACITY 75 °C	Ø	VOLTAGE RANGE
A20	(2) #12 & (1) #12 GND.	1	1/2"	20	1	120 OR 277
A30	(2) #10 & (1) #10 GND.	1	3/4"	30	1	120 OR 277
A50	(2) #8 & (1) #10 GND.	1	3/4"	50	1	120 OR 277
B20	(3) #12 & (1) #12 GND.	1	1/2"	30	1	208 - 480
B30	(3) #10 & (1) #10 GND.	1	3/4"	30	1	208 - 480
B50	(3) #8 & (1) #10 GND.	1	3/4"	50	1	208 - 480
B60	(3) #6 & (1) #10 GND.	1	3/4"	65	1	208 - 480
B80	(3) #4 & (1) #8 GND.	1	1"	85	1	208 - 480
B100	(3) #3 & (1) #8 GND.	1	1-1/2"	100	1	208 - 480
B110	(3) #2 & (1) #6 GND.	1	1-1/2"	115	1	208 - 480
B125	(3) #1 & (1) #6 GND.	1	1-1/2"	130	1	208 - 480
B150	(3) #1/0 & (1) #6 GND.	1	2"	150	1	208 - 480
B175	(3) #2/0 & (1) #6 GND.	1	2"	175	1	208 - 480
B200	(3) #3/0 & (1) #6 GND.	1	2"	200	1	208 - 480
B225	(3) #4/0 & (1) #4 GND.	1	2-1/2"	230	1	208 - 480
B250	(3) #250 KCM & (1) #4 GND.	1	2-1/2"	255	1	208 - 480
B275	(3) #300 KCM & (1) #4 GND.	1	2-1/2"	285	1	208 - 480
B300	(3) #350 KCM & (1) #4 GND.	1	3"	310	1	208 - 480
B350	(3) #500 KCM & (1) #3 GND.	1	3"	380	1	208 - 480
B400	(3) #3/0 & (1) #3 GND.	2	2"	400	1	208 - 480
B450	(3) #4/0 & (1) #2 GND.	2	2-1/2"	460	1	208 - 480
B500	(3) #250 KCM & (1) #2 GND.	2	2-1/2"	510	1	208 - 480
B600	(3) #350 KCM & (1) #1 GND.	2	3"	620	1	208 - 480
B800	(3) #500 KCM & (1) #1/0 GND.	3	2-1/2"	855	1	208 - 480
B1000	(3) #250 KCM & (1) #2/0 GND.	4	2-1/2"	1020	1	208 - 480
B1200	(3) #350 KCM & (1) #3/0 GND.	4	3"	1240	1	208 - 480
C20	(4) #12 & (1) #12 GND.	1	1/2"	20	3	208 - 480
C30	(4) #10 & (1) #10 GND.	1	3/4"	30	3	208 - 480
C50	(4) #8 & (1) #10 GND.	1	3/4"	50	3	208 - 480
C60	(4) #6 & (1) #10 GND.	1	1"	65	3	208 - 480
C80	(4) #4 & (1) #8 GND.	1	1-1/2"	85	3	208 - 480
C100	(4) #3 & (1) #8 GND.	1	1-1/2"	100	3	208 - 480
C110	(4) #2 & (1) #6 GND.	1	1-1/2"	115	3	208 - 480
C125	(4) #1 & (1) #6 GND.	1	1-1/2"	130	3	208 - 480
C150	(4) #1/0 & (1) #6 GND.	1	2"	150	3	208 - 480
C175	(4) #2/0 & (1) #6 GND.	1	2"	175	3	208 - 480
C200	(4) #3/0 & (1) #6 GND.	1	2"	200	3	208 - 480
C225	(4) #4/0 & (1) #4 GND.	1	3"	230	3	208 - 480
C250	(4) #250 KCM & (1) #4 GND.	1	3"	255	3	208 - 480
C300	(4) #350 KCM & (1) #4 GND.	1	3"	310	3	208 - 480
C350	(4) #500 KCM & (1) #3 GND.	1	3-1/2"	380	3	208 - 480
C400	(4) #3/0 & (1) #3 GND.	2	2"	400	3	208 - 480
C450	(4) #4/0 & (1) #2 GND.	2	3"	460	3	208 - 480
C500	(4) #250 KCM & (1) #2 GND.	2	3"	510	3	208 - 480
C600	(4) #350 KCM & (1) #1 GND.	2	3"	620	3	208 - 480
C800	(4) #500 KCM & (1) #1/0 GND.	3	3"	855	3	208 - 480
C1000	(4) #250 KCM & (1) #2/0 GND.	4	3"	1020	3	208 - 480
C1200	(4) #350 KCM & (1) #3/0 GND.	4	3"	1240	3	208 - 480
C1400	(4) #500 KCM & (1) #4/0 GND.	4	3-1/2"			

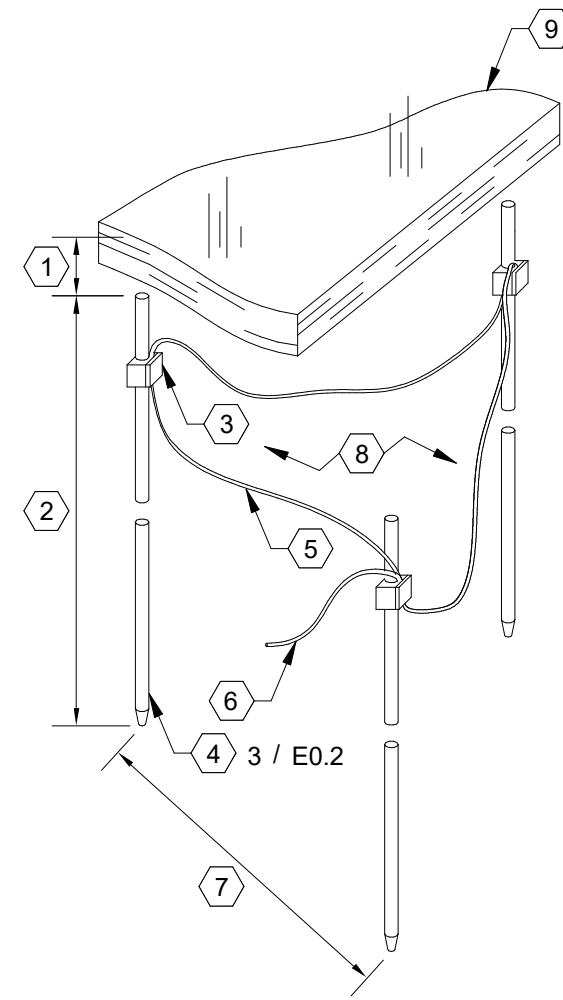


ELECTRICAL NOTES

- NUMBERED NOTES
- METAL FRAME OF BUILDING OR MOUNTING STRUCTURE.
 - MAIN DISCONNECT.
 - SERVICE EQUIPMENT.
 - NEUTRAL BAR.
 - GROUNDING BAR.
 - GROUNDING PLATE OR BONDING POINT AS REQUIRED.
 - WATER PIPING ON LOAD SIDE OF METER.
 - GAS PIPING ON LOAD SIDE OF METER.
 - FINISHED FLOOR.
 - FILL GRAVEL.
 - CONCRETE FOOTER.
 - CONCRETE-ENCASED ELECTRODE, 1/2" x 20' FOR NEW CONSTRUCTION.
 - GROUND ROD, SEE REFERENCED DETAIL.
 - BONDING POINT.
 - GROUND BAR FOR LOW VOLTAGE UTILITIES.
 - FINISHED GRADE.
 - GROUNDING ELECTRODE CONDUCTOR.

- GENERAL NOTES
- SHALL BE PER NEC ARTICLE 250.
 - ALL PROJECTS MAY NOT INCLUDE METAL WATER PIPE, GAS LINE, OR METAL CONSTRUCTION.
 - CONFIGURATION OF SERVICE MAY DIFFER, COORDINATE INSTALLATION.

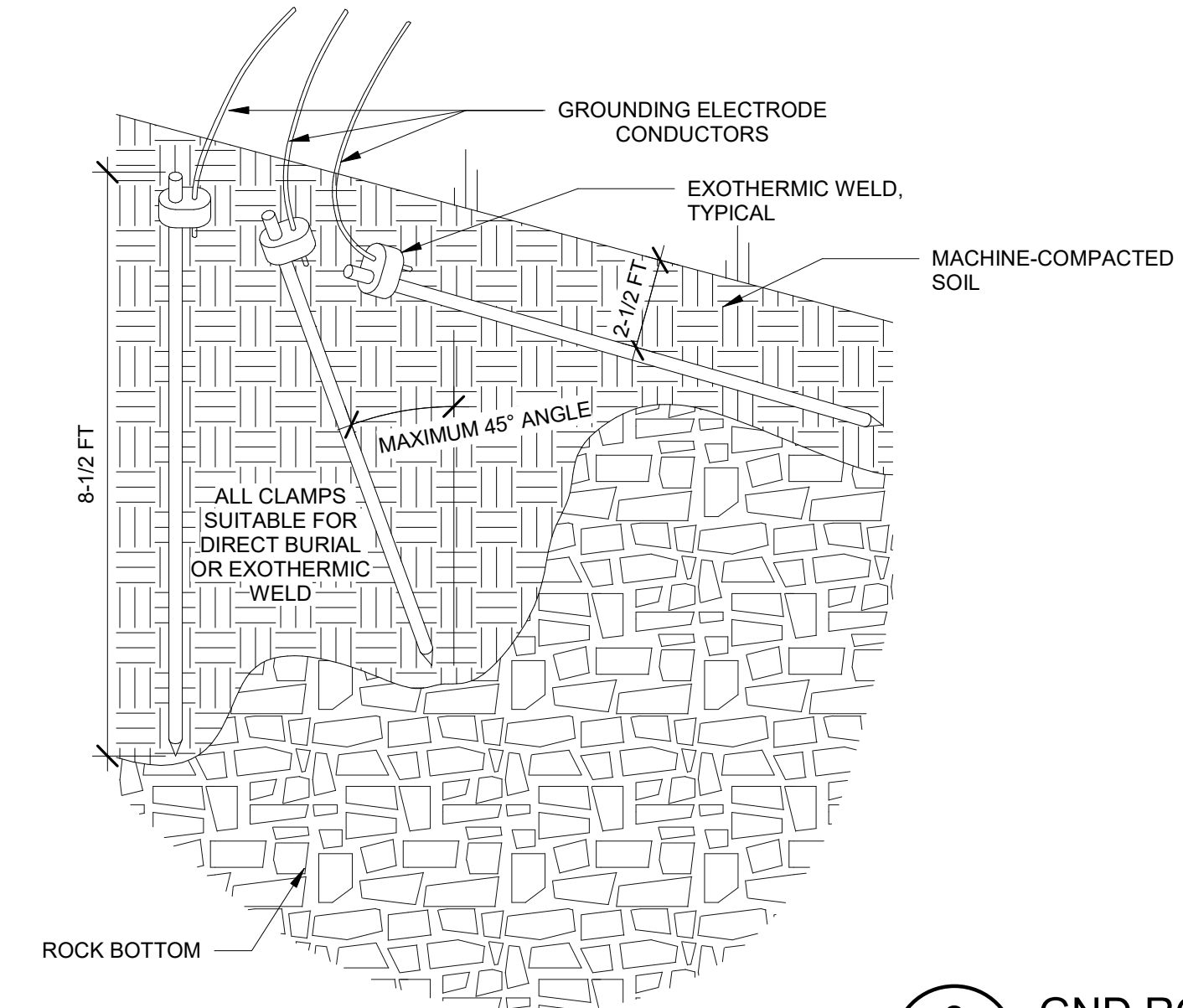
1 GROUNDING DTL
E0.2 NOT TO SCALE



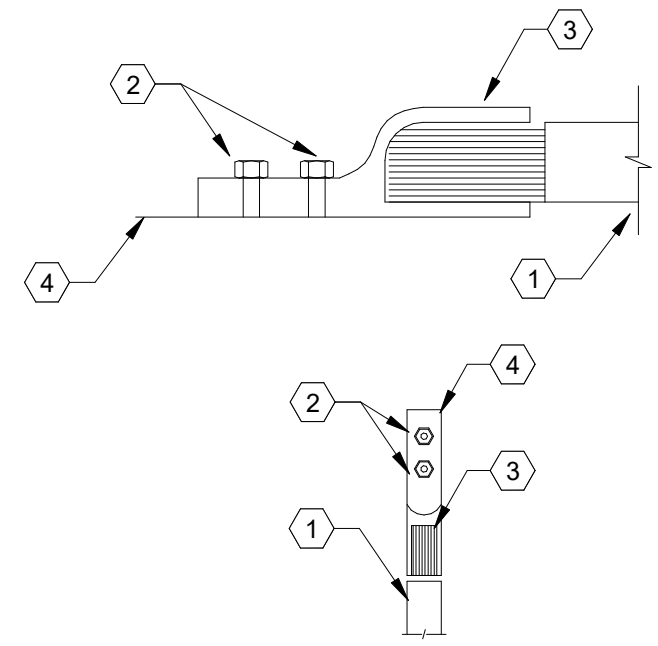
ELECTRICAL NOTES

- NUMBERED NOTES
- INSTALL GROUND ROD BELOW GROUND FREEZING DEPTH. COORDINATE DEPTH WITH AREA OF INSTALLATION.
 - GROUND ROD TO HAVE A MINIMUM OF 8' IN CONTACT WITH UNDISTURBED EARTH.
 - UL LISTED UNDERGROUND EXOTHERMIC WELD OR APPROVED CLAMP, TYP.
 - UL LISTED 5/8" Ø x 10' DRIVEN GROUND ROD, TYP. COORDINATE LOCATION WITH SITE. SEE REFERENCED DETAIL.
 - GROUNDING CONDUCTOR, TYP. SAME SIZE AS GROUNDING ELECTRODE CONDUCTOR.
 - GROUNDING ELECTRODE CONDUCTOR.
 - GROUND RODS TO BE INSTALLED IN A TRIANGULAR PATTERN WITH MIN. 6' APART, TYP.
 - VIRGIN EARTH.
 - FINISHED GRADE.

2 GROUND ROD DTL
E0.2 NOT TO SCALE



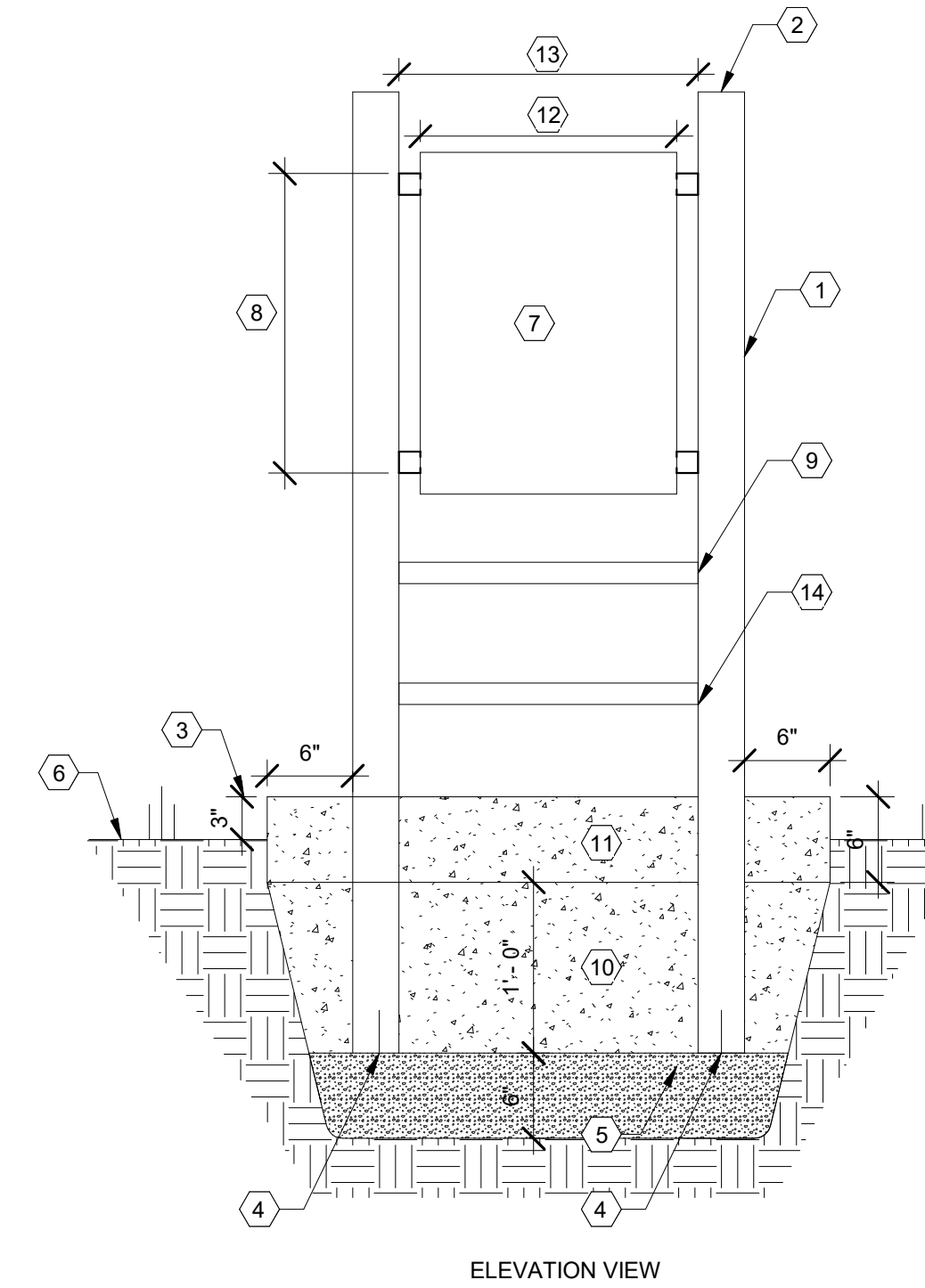
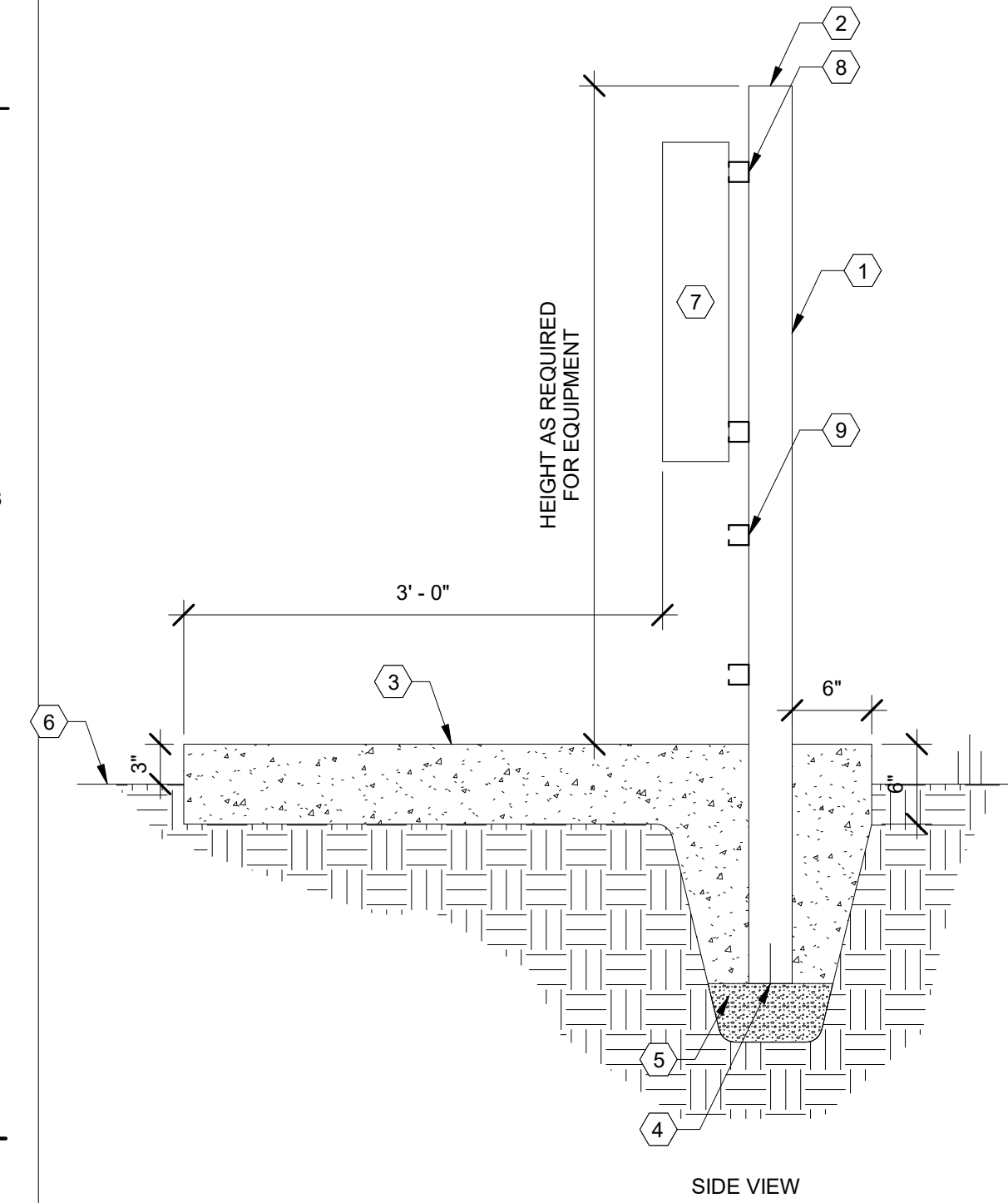
3 GND ROD INSTALL. DTL
E0.2 NOT TO SCALE



ELECTRICAL NOTES

- NUMBERED NOTES
- BONDING CONDUCTOR #3/0 GREEN INSULATION COPPER CABLE, MSHA ACCEPTED, WET LOCATIONS, RESISTANT TO OILS, ACIDS, ALKALINES, AND ABRASION-RESISTANT, OR 12' OF GREEN TAPE AT EACH END. CONDUCTOR STRAND SHALL BE MINIMUM OF 448/24 STRANDS. ALLOW ENOUGH SLACK IN WIRE FOR STRUCTURE MOVEMENT AS PRACTICAL. INSTALLATION LOCATION SHALL BE SUCH THAT NO DAMAGE WILL OCCUR TO CONDUCTOR DURING STRUCTURE MOVEMENT.
 - (2) STAINLESS STEEL HEX BOLTS 5/16 - 18 MIN.
 - HEX STYLE CRIMP OR EQUAL, USING A MINIMUM OF 14 TON CRIMP TOOL.
 - CLEAN STRUCTURE METAL BEHIND CLAMP.

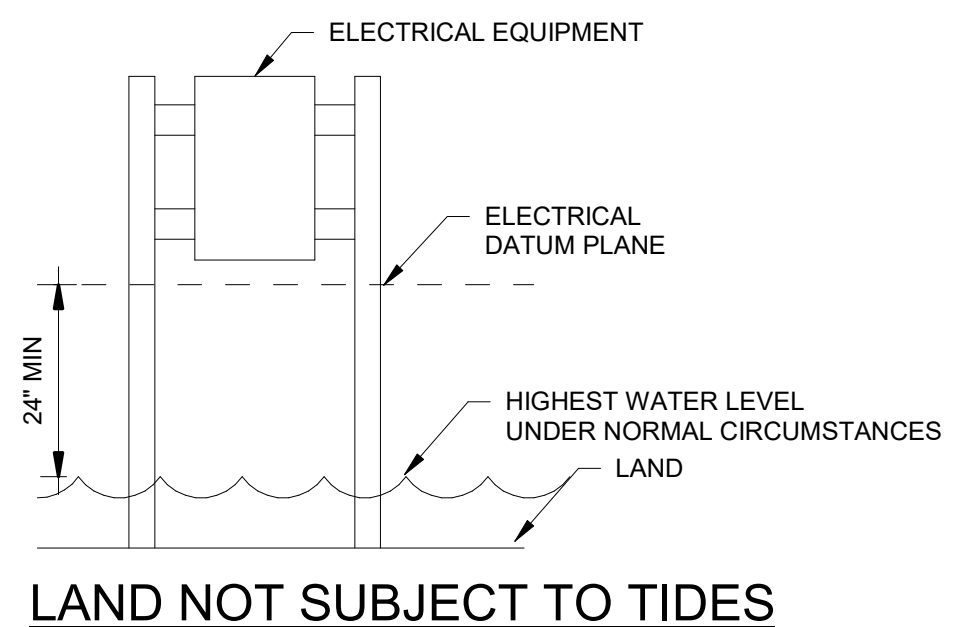
4 BONDING DTL
E0.2 NOT TO SCALE



ELECTRICAL NOTES

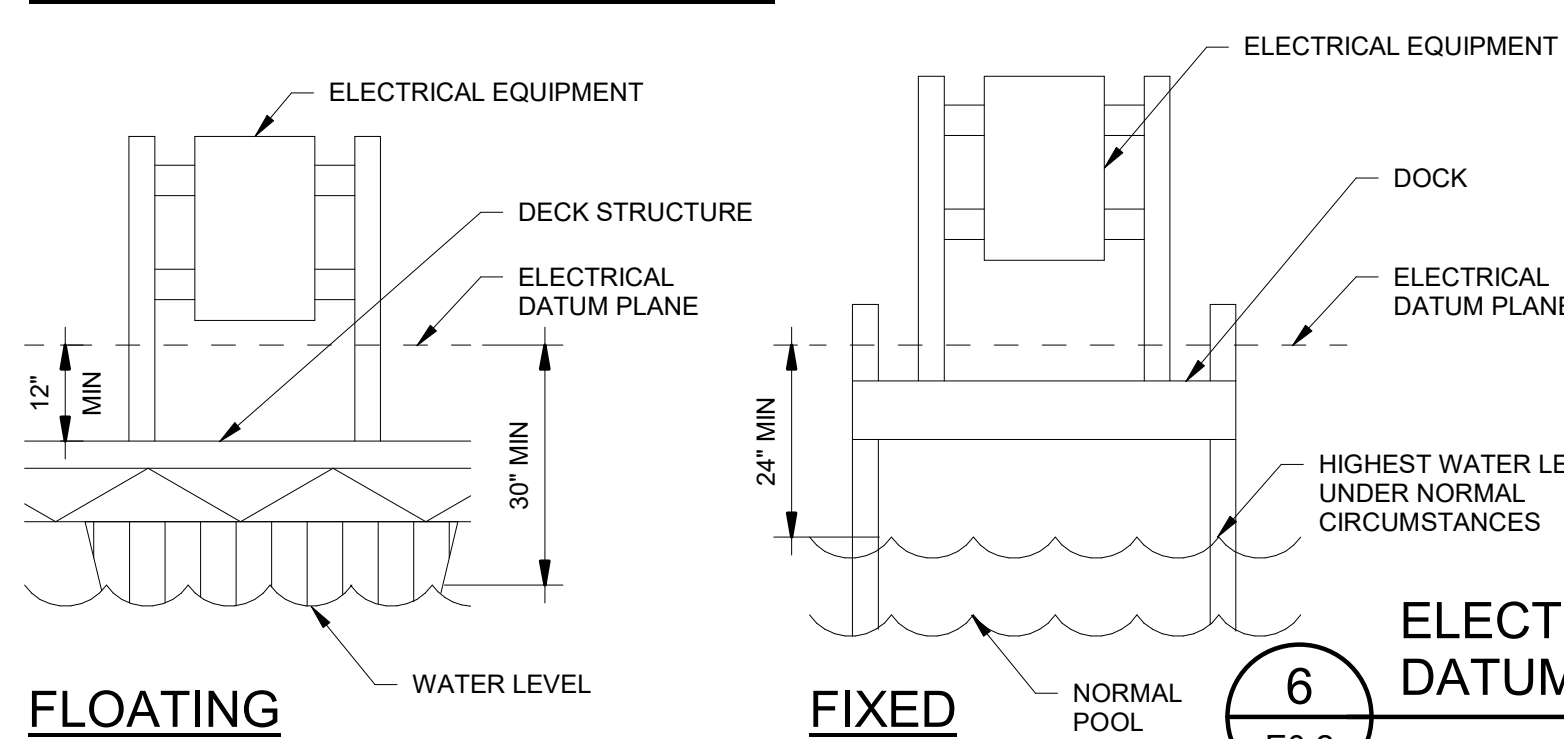
- NUMBERED NOTES
- 3-1/4" GALVANIZED SQUARE POST.
 - PLASTIC CAP.
 - EQUIPMENT PAD.
 - OPEN BOTTOM.
 - 6" OF GRADE #57 GRAVEL.
 - FINISHED GRADE.
 - ELECTRICAL EQUIPMENT PER PLANS.
 - UNISTRUT FOR EQUIPMENT MOUNTING AS REQUIRED. COORDINATE UNISTRUT SPACING WITH EQUIPMENT MOUNTING HOLES.
 - UNISTRUT FOR CONDUIT SUPPORT INSTALLED WITHIN 12" OF EQUIPMENT.
 - POLE BASE SUPPORT.
 - SLAB.
 - EQUIPMENT WIDTH VARIES.
 - STRUCTURE WIDTH SHALL BE 4" WIDER THAN WIDTH OF EQUIPMENT.
 - IF SPACE BETWEEN FIRST UNISTRUT AND SLAB IS GREATER THAN 36", INSTALL SECOND UNISTRUT EQUIDISTANT.

5 POST MOUNT DTL
E0.2 NOT TO SCALE

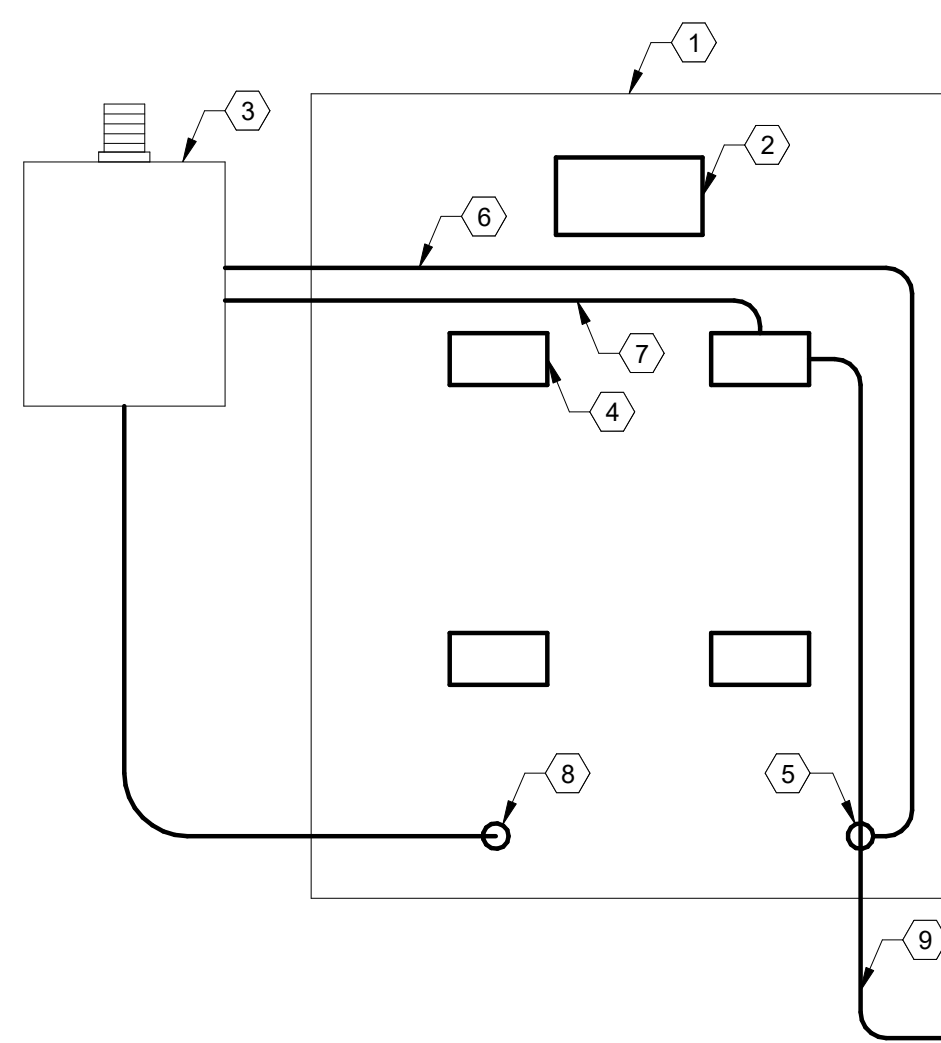


ELECTRICAL NOTES

- GENERAL NOTES
- ALL ELECTRICAL CONNECTIONS (WITH EXCEPTION TO GROUND BONDING TO DOCK STRUCTURE), ON FLOATING OR FIXED PIERS, SHALL BE ABOVE THE ELECTRICAL DATUM PLANE. BOTTOMS OF TRANSFORMERS SHALL NOT BE BELOW THE ELECTRICAL DATUM PLANE.



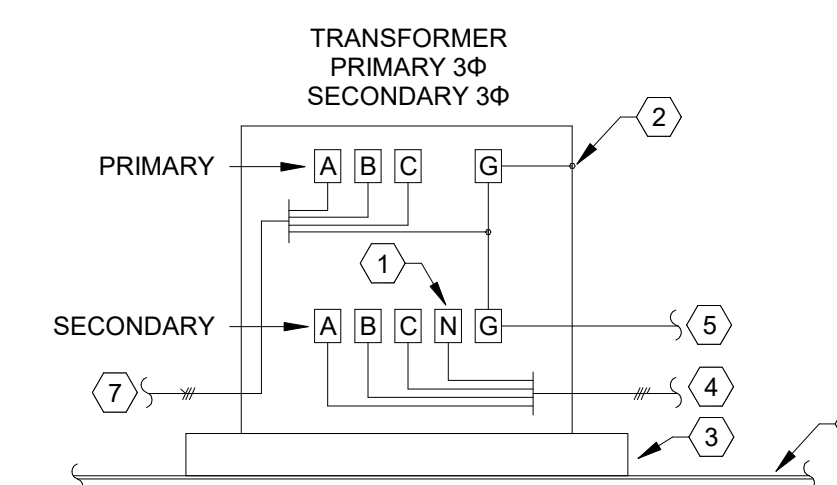
6 ELECTRICAL DATUM PLANE DTL
E0.2 NOT TO SCALE



ELECTRICAL NOTES

- NUMBERED NOTES
- ELECTRICAL PANEL.
 - MAIN CIRCUIT BREAKER.
 - GROUND FAULT MONITOR (GFM), COORDINATE WITH MANUFACTURER FOR WIRING AND INSTALLATION REQUIREMENTS. RED BEACON SHALL FLASH UPON ALL CIRCUIT TRIPS DUE TO GROUND FAULT ALARMS.
 - SHUNT TRIP BRANCH BREAKER, TYPICAL. SEE PANEL SCHEDULE FOR SIZE.
 - GFM CURRENT SENSOR, TYPICAL. SIZE PER WIRE AS SHOWN IN PANEL SCHEDULE. HOT AND NEUTRAL CONDUCTORS ROUTED THROUGH CT.
 - CURRENT SENSOR CONTROL WIRE, TYPICAL.
 - SHUNT TRIP CONTROL WIRE, TYPICAL. TAP BUS ON LOAD SIDE OF THE MAIN BREAKER AND RUN TO GFM. UTILIZE A SUB-FEED LUG BLOCK OR SIMILAR MEANS TO MAKE TAP. TERMINATE CIRCUIT ON MANUFACTURER'S SUPPLIED OVERCURRENT DEVICE. CIRCUIT CONDUCTORS SHALL NOT EXTEND LONGER THAN 10 FEET.
 - BRANCH CIRCUIT TO MARINA PEDESTAL, TYPICAL.

7 GFM WIRING DTL
E0.2 NOT TO SCALE



ELECTRICAL NOTES

- NUMBERED NOTES
- BOND NEUTRAL TO GROUND AT FIRST OVER CURRENT PROTECTION DEVICE.
 - BOND ENCLOSURE.
 - CONCRETE EQUIPMENT PAD AS REQUIRED.
 - SECONDARY TO PANEL. SEE RISER FOR DETAILS.
 - SUPPLY SIDE BONDING JUMPER BOND TO STRUCTURAL STEEL.
 - FINISHED FLOOR.
 - PRIMARY CONDUCTORS.

8 XFMR WIRING DTL
E0.2 NOT TO SCALE

**ELECTRICAL UPGRADES FOR
CITY OF ROCKLAND
DOWNTOWN WATERFRONT UPLAND
IMPROVEMENTS
ROCKLAND, MAINE**

**MAFFETT
OFFICE
ENGINEERS
P.C.**
15 DEERFIELD AVENUE, STE 101
COOKESVILLE, TN 38501
TEL: (931) 526-5143
www.maffett-office.com

Revisions indicated w/

No.	Date	Description

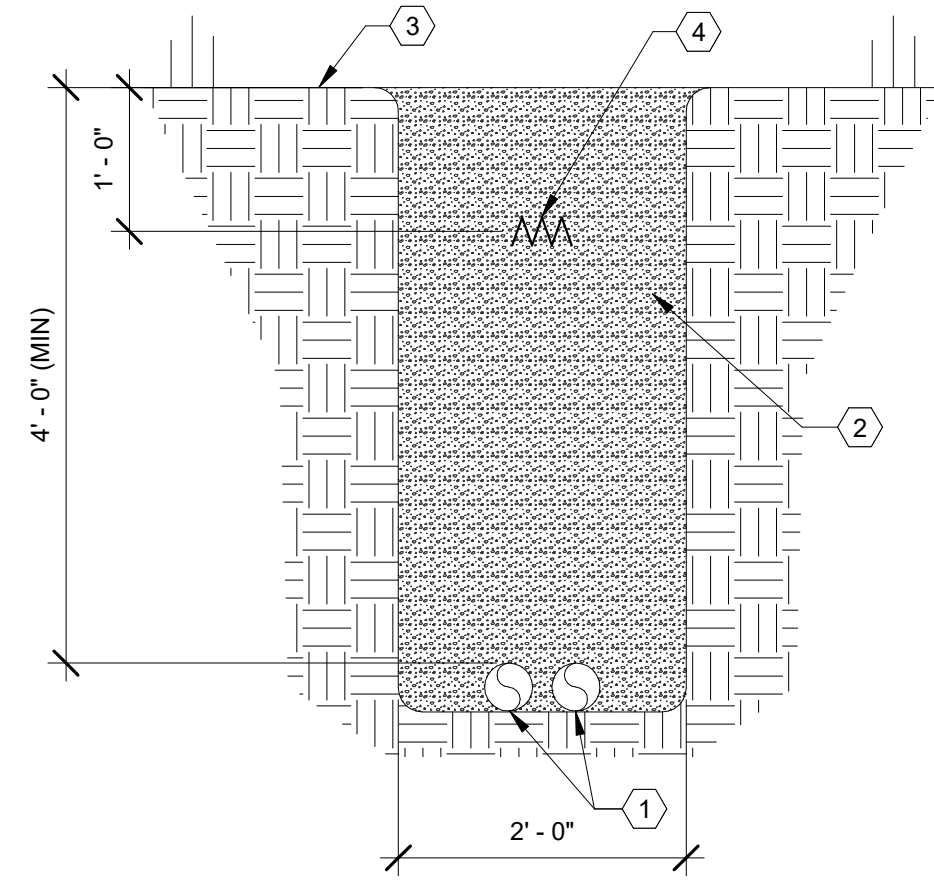
E0.2
SHEET: ELECTRICAL DETAILS
TITLE:
JOB NO: 23008 DATE: 9-7-23
DWN BY: JLC

**PRELIMINARY
SET NOT FOR
CONSTRUCTION**

ELECTRICAL NOTES

NUMBERED NOTES

- 1 SCH 40 PVC PRIMARY CONDUITS AS REQUIRED.
- 2 MACHINE COMPACTED GRAVEL FILL FOR AREAS WHEN CROSSING DRIVEWAYS, ROADS, AND PARKING LOTS. DIRT FILL AND COMPACT ALL OTHER AREAS
- 3 FINISHED GRADE.
- 4 WARNING TAPE.

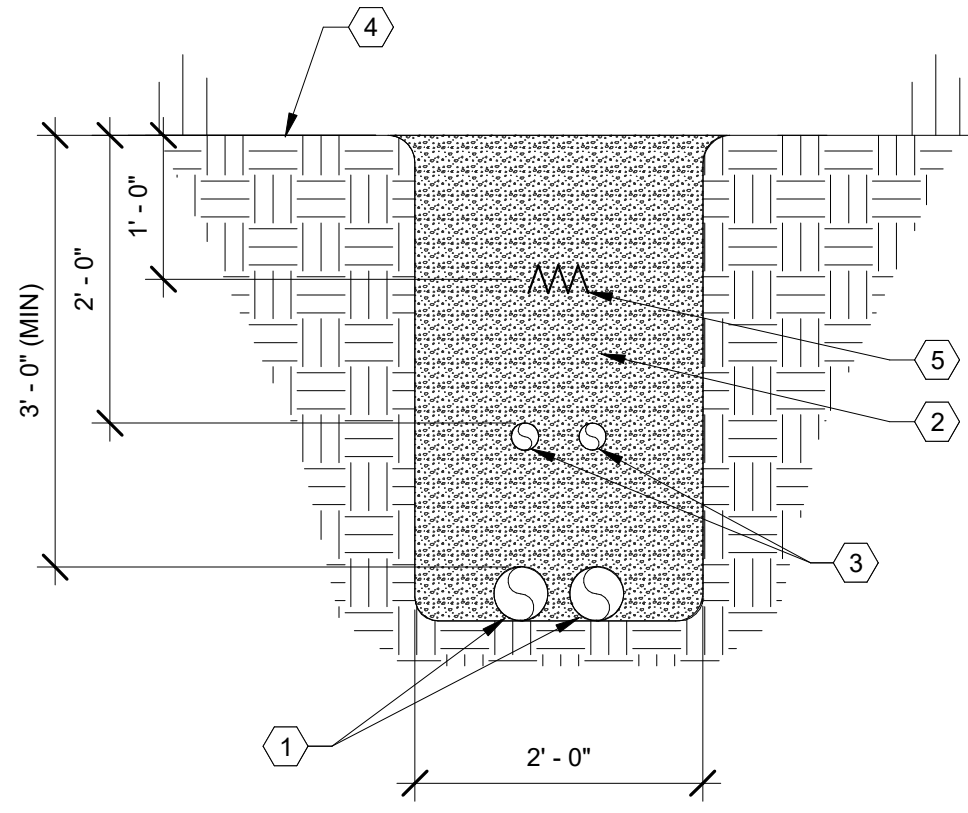


1 48" DITCH DTL
E0.3 NOT TO SCALE

ELECTRICAL NOTES

NUMBERED NOTES

- 1 SCH 40 PVC SERVICE CONDUITS AS REQUIRED.
- 2 MACHINE COMPACTED GRAVEL FILL FOR AREAS WHEN CROSSING DRIVEWAYS, ROADS, AND PARKING LOTS. DIRT FILL AND COMPACT ALL OTHER AREAS.
- 3 COMMUNICATION CONDUITS AS REQUIRED.
- 4 FINISH GRADE.
- 5 WARNING TAPE.

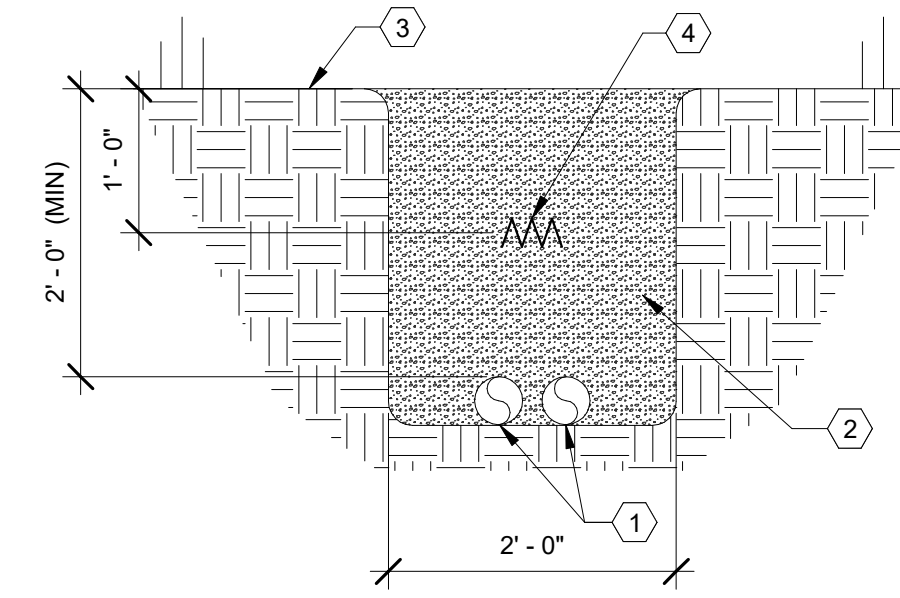


2 36" DITCH DTL
E0.3 NOT TO SCALE

ELECTRICAL NOTES

NUMBERED NOTES

- 1 SCH 40 PVC FEEDER AND/OR BRANCH CIRCUIT CONDUITS AS REQUIRED.
- 2 MACHINE COMPACTED GRAVEL FILL FOR AREAS WHEN CROSSING DRIVEWAYS, ROADS, AND PARKING LOTS. DIRT FILL AND COMPACT ALL OTHER AREAS
- 3 FINISHED GRADE.
- 4 WARNING TAPE.

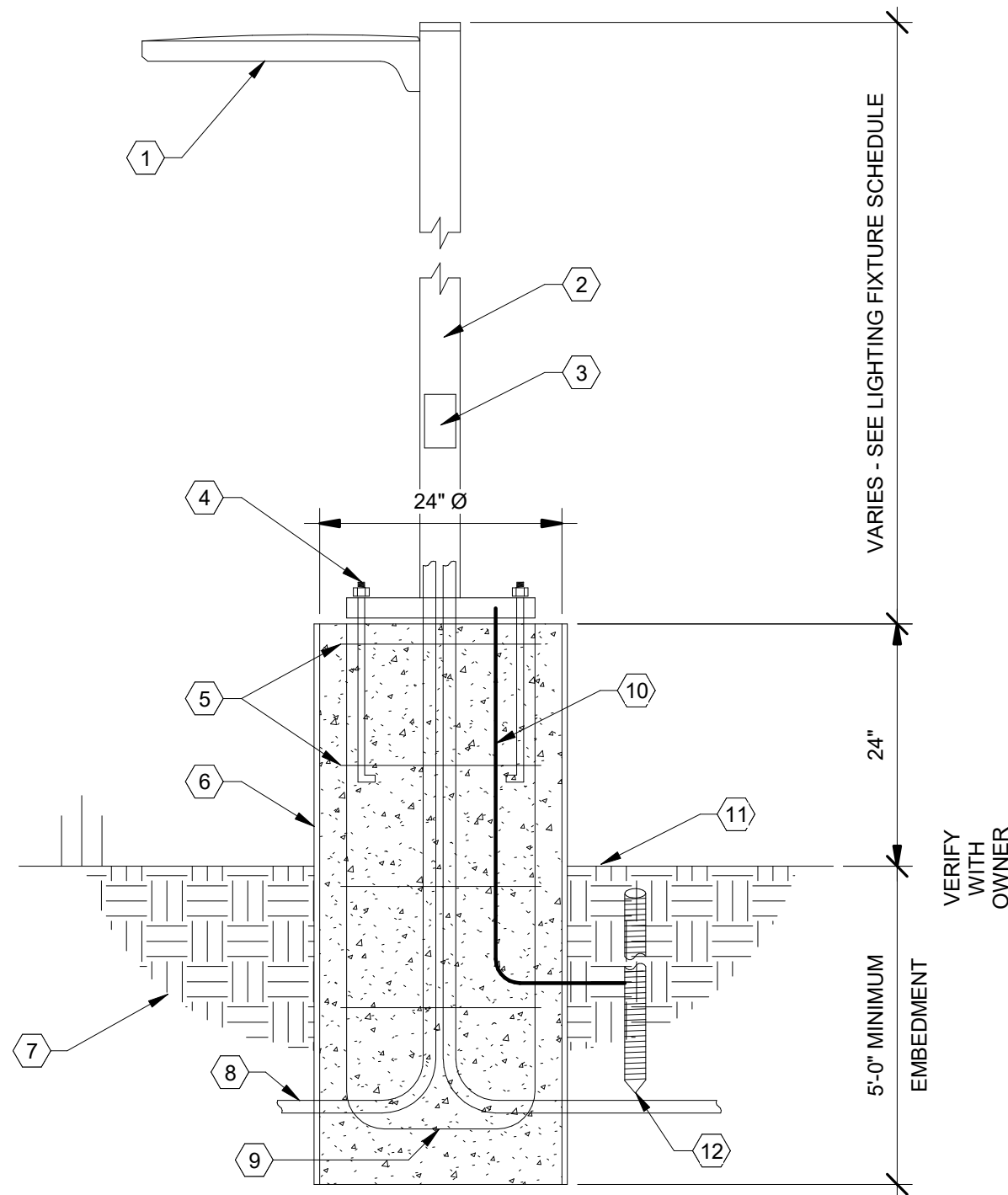


3 24" DITCH DTL
E0.3 NOT TO SCALE

ELECTRICAL NOTES

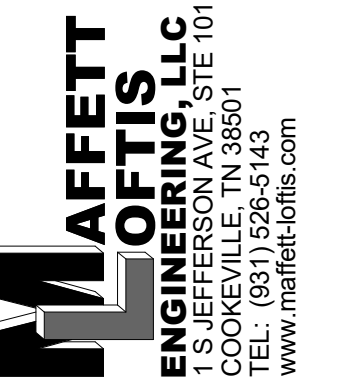
NUMBERED NOTES

- 1 FIXTURE HEAD, SEE LIGHTING FIXTURE SCHEDULE
- 2 POLE - REF.
- 3 ACCESS HAND HOLE, PROVIDE FUSING AT BASE OF POLE
- 4 POLE ANCHOR BOLTS, COORDINATE WITH MANUFACTURER.
- 5 #4 BANDS AT 12" O.C.
- 6 SONO TUBE FORM, REMOVE AFTER POURING.
- 7 COMPACTED FILL OR UNDISTURBED SOIL.
- 8 PVC CONDUITS AS REQUIRED, TYP.
- 9 (4) #4 REINFORCED.
- 10 #2 BARE COPPER GROUND WIRE.
- 11 FINISHED GRADE.
- 12 3/4" x 10'-0" COPPER GROUND ROD (DRIVEN).



4 POLE LIGHT DTL
E0.3 NOT TO SCALE

ELECTRICAL UPGRADES FOR
CITY OF ROCKLAND
DOWNTOWN WATERFRONT UPLAND
IMPROVEMENTS
ROCKLAND, MAINE



Revisions Indicated w/ Δ	
No.	Description

SHEET: E0.3	TITLE: ELECTRICAL DETAILS	
	JOB NO.: 23008	DATE: 9-7-23
DWN BY: JJC		

PRELIMINARY
SET NOT FOR
CONSTRUCTION

ELECTRICAL NOTES

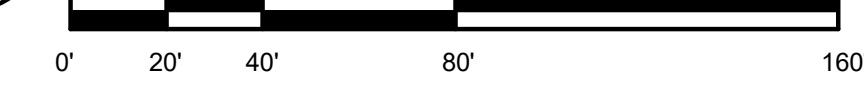
NUMBERED NOTES

- 1 PROPOSED UTILITY TRANSFORMER LOCATION.
- 2 NEW PROPOSED UTILITY POLE.
- 3 EXISTING UTILITY POLE LOCATION.
- 4 NEW UTILITY PRIMARY, REFER TO 48" DITCH DETAIL.
- 5 NEW OVERHEAD PRIMARY.



1 ELECTRICAL SITE PLAN

SCALE: 1" = 40'-0" (WHEN PRINTED FULL SCALE ON 24"X36")



ELECTRICAL UPGRADES FOR
CITY OF ROCKLAND
DOWNTOWN WATERFRONT UPLAND
IMPROVEMENTS
ROCKLAND, MAINE



Revisions:	
No.	Description

E1.0	SHEET: ELECTRICAL SITE PLAN
	TITLE: ELECTRICAL SITE PLAN
JOB NO: 23008	DATE: 9-7-23
DWN BY: JJC	

PRELIMINARY
SET NOT FOR
CONSTRUCTION

BRANCH PANEL: H1

LOCATION:
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: SS1

TYPE: SQUARE - D I-LINE SER
VOLTS: 277/480 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: COORDINATE
MAINS TYPE: MCB
MAINS RATING: 600 A
MCB RATING: 600 A

TRIP AMPS	POLES	FEED	NOTES	CIRCUIT DESCRIPTION	CKT	A	B	C	CKT	CIRCUIT DESCRIPTION	NOTES	FEED	POLES	TRIP AMPS
300 A	2	B300		T1	1	36.7	66.7		2	DC FAST CHARGER		C300	3	300 A
					3				4					
					5			85.8	66.7		6			
					7	85.4					8			
300 A	2	1G300	3	M3	9				10					
					11				12					
					13				14					
					15				16					
					17				18					
					19				20					
					21				22					
					23				24					
					25				26					
					27				28					
					29				30					
					31				32					
					33				34					
					35				36					
					37				38					
					39				40					
					41				42					

LOAD CLASSIFICATION	CONNECTED (kVA)	DEMAND FACTOR	EST. DEMAND (kVA)	PANEL TOTALS
Receptacle	0.4 kVA	100.00%	0.4 kVA	TOTAL CONN. LOAD (kVA): 444.2 kVA TOTAL EST. DEMAND (kVA): 447.2 kVA TOTAL CONN.: 534 A TOTAL EST. DEMAND: 538 A
Continuous	200.2 kVA	125.00%	250.3 kVA	
Non-Continuous	72.0 kVA	100.00%	72.0 kVA	
Metered Shore Power	168.0 kVA	72.00%	121.0 kVA	
Maint. Recept.	3.6 kVA	100.00%	3.6 kVA	

- BREAKER NOTES (REFERENCED IN NOTES COLUMN):**
- GFCI
 - COMBINATION AFCI
 - SHUNT TRIP - REFER TO GFM WIRING DETAIL
 - 30mA GFPE
 - TAP BLOCK

- CIRCUIT NOTES (REFERENCED IN NOTES COLUMN):**
- A. CONTINUOUS METAL RACEWAY

CIRCUIT SCHEDULE

CKT #	DESCRIPTION	VD %	GFPE TRIP (mA)	GFPE TIME (ms)
1,3	T1	0.03%	N/A	N/A
2,4,6	DC FAST CHARGER	0.43%	90-100	400
5,7	M3	0.90%	90-100	400

BRANCH PANEL: L1

LOCATION:
SUPPLY FROM: T1
MOUNTING: SURFACE
ENCLOSURE: SS1

TYPE: SQUARE - D I-LINE
VOLTS: 120/240 Single
PHASES: 1
WIRES: 3

A.I.C. RATING: COORDINATE
MAINS TYPE: MCB
MAINS RATING: 600 A
MCB RATING: 600 A

TRIP AMPS	POLES	FEED	NOTES	CIRCUIT DESCRIPTION	CKT	A	B	CKT	CIRCUIT DESCRIPTION	NOTES	FEED	POLES	TRIP AMPS
20 A	1	A20		G1	1	0.1	12.2	2	EVENT PEDESTAL		B100	2	100 A
					3			4					
100 A	2	B100		EVENT PEDESTAL	5	12.2	12.2	6	EVENT PEDESTAL	1	B100	2	100 A
					7			8					
					9			10					
					11			12					
					13			14					
					15			16					
					17			18					
					19			20					
					21			22					
					23			24					
					25			26					
					27			28					
					29			30					
					31			32					
					33			34					
					35			36					
					37			38					
					39			40					
					41			42					

LOAD CLASSIFICATION	CONNECTED (kVA)	DEMAND FACTOR	EST. DEMAND (kVA)	PANEL TOTALS
Continuous	0.0 kVA	125.00%	0.0 kVA	TOTAL CONN. LOAD (kVA): 73.1 kVA TOTAL EST. DEMAND (kVA): 73.1 kVA TOTAL CONN.: 305 A TOTAL EST. DEMAND: 305 A
Non-Continuous	72.0 kVA	100.00%	72.0 kVA	
Maint. Recept.	1.1 kVA	100.00%	1.1 kVA	

- BREAKER NOTES (REFERENCED IN NOTES COLUMN):**
- GFCI
 - COMBINATION AFCI
 - SHUNT TRIP - REFER TO GFM WIRING DETAIL
 - 30mA GFPE
 - TAP BLOCK

- CIRCUIT NOTES (REFERENCED IN NOTES COLUMN):**
- A. CONTINUOUS METAL RACEWAY

CIRCUIT SCHEDULE

CKT #	DESCRIPTION	FEED	VD %	GFPE TRIP (mA)	GFPE TIME (ms)
2,4	EVENT PEDESTAL	B100	1.61%	90-100	400
3,5	EVENT PEDESTAL	B100	3.36%	90-100	400
6,8	EVENT PEDESTAL	B100	3.16%		

ELECTRICAL UPGRADES FOR
CITY OF ROCKLAND
DOWNTOWN WATERFRONT UPLAND
IMPROVEMENTS
ROCKLAND, MAINE



Revisions:

No.	Date	Description

E2.1	SHEET: PANEL SCHEDULES	
	TITLE:	DATE: 9-7-23
	JOB NO: 23008	DWN BY: JJC

PRELIMINARY
SET NOT FOR
CONSTRUCTION

BRANCH PANEL: H2

LOCATION:
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: SS2

TYPE: SQUARE-D I-LINE SER
VOLTS: 277/480 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: COORDINATE
MAINS TYPE: MCB
MAINS RATING: 600 A
MCB RATING: 600 A

TRIP AMPS	POLES	FEED	NOTES	CIRCUIT DESCRIPTION	CKT	A	B	C	CKT	CIRCUIT DESCRIPTION	NOTES	FEED	POLES	TRIP AMPS
300 A	3	3G300		DC FAST CHARGER	1	66.7	73.0		2	T2		C300	2	300 A
					3			66.7	4					
					5				6					
					7				8					
					9			66.7	10					
					11				12					
					13				14					
					15				16					
					17				18					
					19				20					
					21				22					
					23				24					
					25				26					
					27				28					
					29				30					
					31				32					
					33				34					
					35				36					
					37				38					
					39				40					
					41				42					

LOAD CLASSIFICATION	CONNECTED (kVA)	DEMAND FACTOR	EST. DEMAND (kVA)	PANEL TOTALS
Continuous	200.0 kVA	125.00%	250.1 kVA	TOTAL CONN. LOAD (kVA): 345.8 kVA TOTAL EST. DEMAND (kVA): 355.5 kVA TOTAL CONN.: 416 A TOTAL EST. DEMAND: 428 A
Non-Continuous	0.0 kVA	0.00%	0.0 kVA	
Metered Shore Power	144.0 kVA	72.00%	103.7 kVA	
Maint. Recpt.	1.8 kVA	100.00%	1.8 kVA	

BREAKER NOTES (REFERENCED IN NOTES COLUMN):
 1. GFCI
 2. COMBINATION AFCI
 3. SHUNT TRIP - REFER TO GFM WIRING DETAIL
 4. 30mA GFPE
 5. TAP BLOCK

CIRCUIT NOTES (REFERENCED IN NOTES COLUMN):
 A. CONTINUOUS METAL RACEWAY

BRANCH PANEL: L2

LOCATION:
SUPPLY FROM: T2
MOUNTING: SURFACE
ENCLOSURE: SS2

TYPE: SQUARE - D I-LINE
VOLTS: 120/240 Single
PHASES: 1
WIRES: 3

A.I.C. RATING: COORDINATE
MAINS TYPE: MCB
MAINS RATING: 600 A
MCB RATING: 600 A

TRIP AMPS	POLES	FEED	NOTES	CIRCUIT DESCRIPTION	CKT	A	B	CKT	CIRCUIT DESCRIPTION	NOTES	FEED	POLES	TRIP AMPS
200 A	2	1G250	3	METERED SHORE POWER	1	24.4	24.2	2	METERED SHORE POWER	3	1G250	2	200 A
					3			4					
100 A	2	1G125	3	METERED SHORE POWER	5	12.2	12.2	6	METERED SHORE POWER	3	1G100	2	100 A
					7			8					
20 A	1	A20		G2	9	0.1		10					
					11			12					
					13			14					
					15			16					
					17			18					
					19			20					
					21			22					
					23			24					
					25			26					
					27			28					
					29			30					
					31			32					
					33			34					
					35			36					
					37			38					
					39			40					
					41			42					

LOAD CLASSIFICATION	CONNECTED (kVA)	DEMAND FACTOR	EST. DEMAND (kVA)	PANEL TOTALS
Continuous	0.0 kVA	125.00%	0.1 kVA	TOTAL CONN. LOAD (kVA): 145.8 kVA TOTAL EST. DEMAND (kVA): 105.5 kVA TOTAL CONN.: 608 A TOTAL EST. DEMAND: 440 A
Non-Continuous	0.0 kVA	0.00%	0.0 kVA	
Metered Shore Power	144.0 kVA	72.00%	103.7 kVA	
Maint. Recpt.	1.8 kVA	100.00%	1.8 kVA	

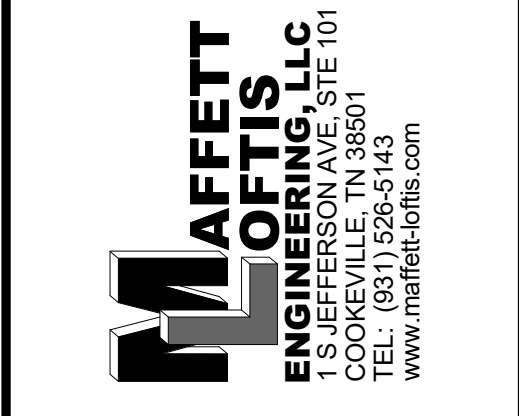
BREAKER NOTES (REFERENCED IN NOTES COLUMN):
 1. GFCI
 2. COMBINATION AFCI
 3. SHUNT TRIP - REFER TO GFM WIRING DETAIL
 4. 30mA GFPE
 5. TAP BLOCK

CIRCUIT NOTES (REFERENCED IN NOTES COLUMN):
 A. CONTINUOUS METAL RACEWAY

CIRCUIT SCHEDULE

CKT #	DESCRIPTION	FEED	VD %	GFPE TRIP (mA)	GFPE TIME (ms)
1.3	METERED SHORE POWER	1G250	3.60%	90-100	400
2.4	METERED SHORE POWER	1G250	3.45%	90-100	400
5.7	METERED SHORE POWER	1G125	3.79%	90-100	400
6.8	METERED SHORE POWER	1G100	3.43%	90-100	400

ELECTRICAL UPGRADES FOR
CITY OF ROCKLAND
DOWNTOWN WATERFRONT UPLAND
IMPROVEMENTS
ROCKLAND, MAINE



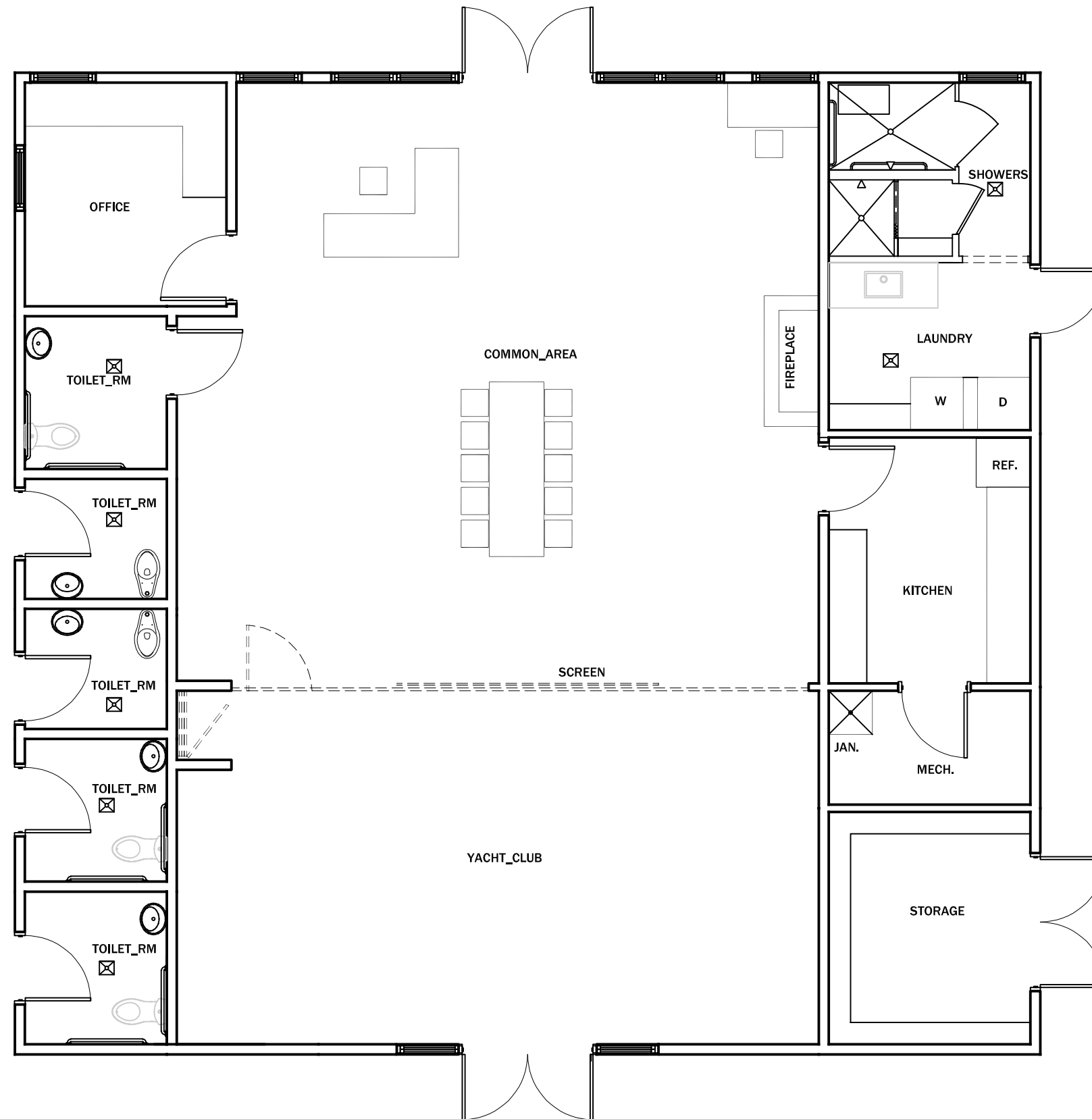
Revisions: Revisions indicated w/ Δ

No.	Date	Description

E2.2

SHEET: PANEL AND EQUIPMENT SCHEDULES
 TITLE:
 JOB NO.: 23008 DATE: 9-7-23
 DWN BY: JJC

PRELIMINARY SET NOT FOR CONSTRUCTION



ROCKLAND HARBOR MASTERS BUILDING SCHEMATIC FLOOR PLAN

Single story 45' X 47' 2,115 S.F.

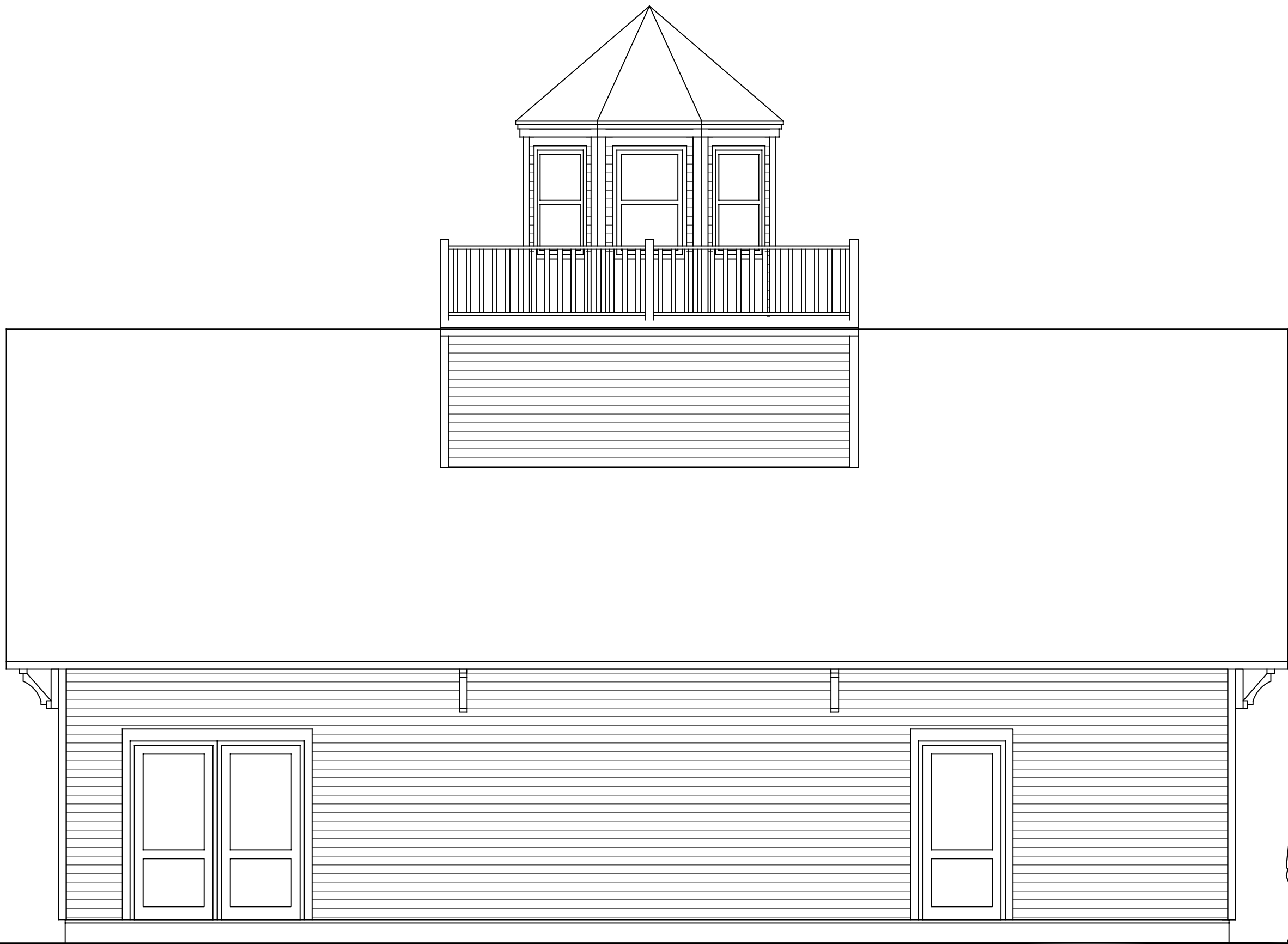


1

WEST ELEVATION

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

A2



4

SOUTH ELEVATION

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

A3



3

EAST ELEVATION

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

A4



2

NORTH ELEVATION

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

A5