PALMER COVE PARK RENOVATION - PHASE 2

SALEM, MASSACHUSETTS

OVERALL PROJECT SITE
SCALE: NTS

N

CITY OF SALEM

MAYOR DOMINICK PANGALLO

Bid Number: 24-12-PLAN

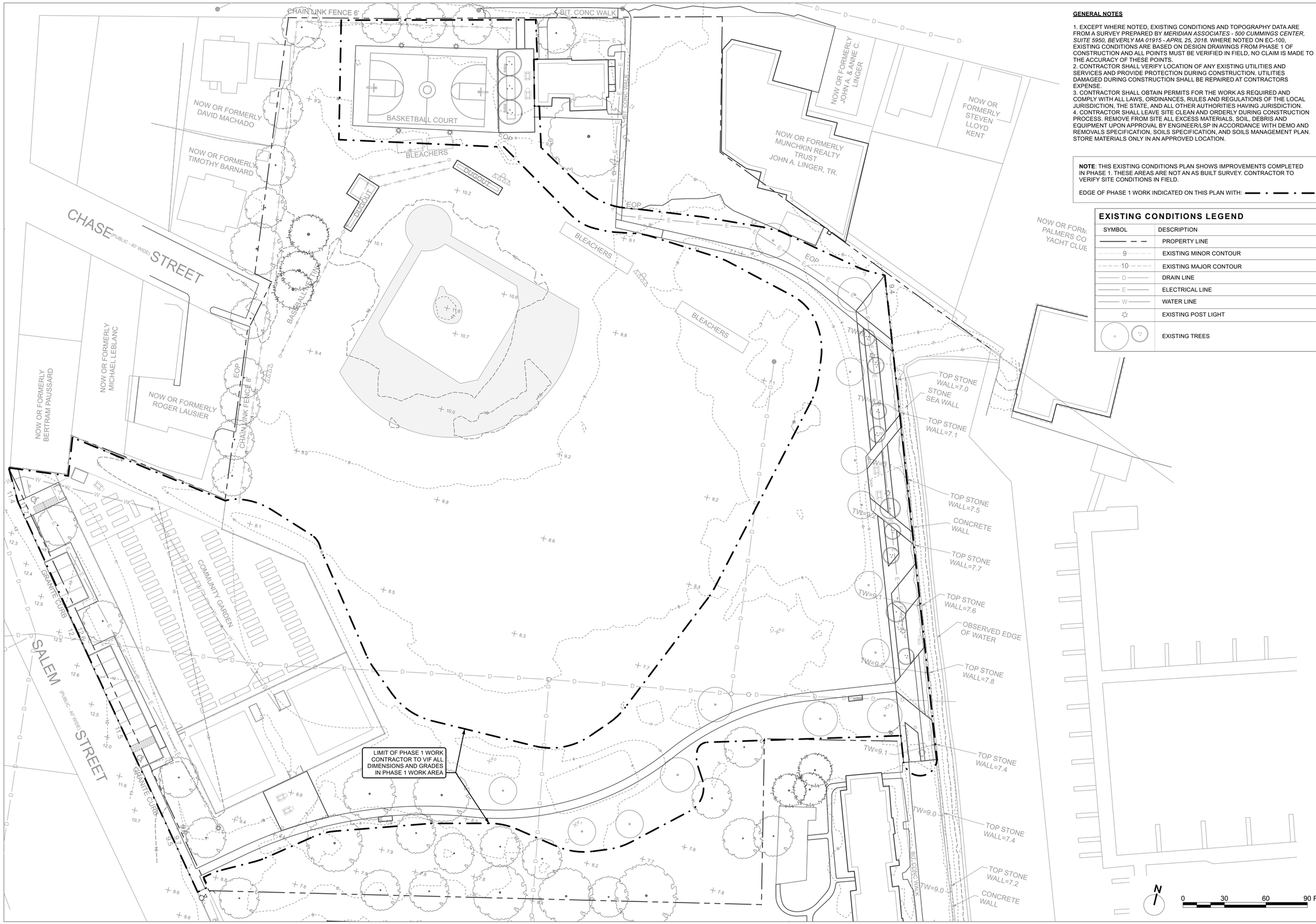
DRAWING LIST

EC100	EXISTING CONDITIONS PLAN
L100	DEMOLITION PLAN
L200	MATERIALS AND LAYOUT PLAN
L201	MATERIALS AND LAYOUT ENLARGEMENT PLAN
L300	GRADING PLAN
L400	PLANTING PLAN
L500	LANDSCAPE DETAILS 1
L501	LANDSCAPE DETAILS 2
L502	LANDSCAPE DETAILS 3
L503	LANDSCAPE DETAILS 4
L504	LANDSCAPE DETAILS 5
L505	PLANTING DETAILS
S100	SCULPTURE BASE DETAILS
SL1	SITE LIGHTING PLAN

BID SET

AUGUST 2, 2023

CROWLEY COTTRELL, LLC
171 MILK STREET, FL 2
BOSTON, MA 02109
617.338.8400



GENERAL NOTES

1. EXCEPT WHERE NOTED, EXISTING CONDITIONS AND TOPOGRAPHY DATA ARE FROM A SURVEY PREPARED BY *MERIDIAN ASSOCIATES - 500 CUMMINGS CENTER, SUITE 5950, BEVERLY MA 01915 - APRIL 25, 2018.* WHERE NOTED ON EC-100, EXISTING CONDITIONS ARE BASED ON DESIGN DRAWINGS FROM PHASE 1 OF CONSTRUCTION AND ALL POINTS MUST BE VERIFIED IN FIELD, NO CLAIM IS MADE TO THE ACCURACY OF THESE POINTS.
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3. CONTRACTOR SHALL OBTAIN PERMITS FOR THE WORK AS REQUIRED AND COMPLY WITH ALL LAWS, ORDINANCES, RULES AND REGULATIONS OF THE LOCAL JURISDICTION, THE STATE, AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
4. CONTRACTOR SHALL LEAVE SITE CLEAN AND ORDERLY DURING CONSTRUCTION PROCESS. REMOVE FROM SITE ALL EXCESS MATERIALS, SOIL, DEBRIS AND EQUIPMENT UPON APPROVAL BY ENGINEER/LSP IN ACCORDANCE WITH DEMO AND REMOVALS SPECIFICATION, SOILS SPECIFICATION, AND SOILS MANAGEMENT PLAN. STORE MATERIALS ONLY IN AN APPROVED LOCATION.

NOTE: THIS EXISTING CONDITIONS PLAN SHOWS IMPROVEMENTS COMPLETED IN PHASE 1. THESE AREAS ARE NOT AN AS BUILT SURVEY. CONTRACTOR TO VERIFY SITE CONDITIONS IN FIELD.

EDGE OF PHASE 1 WORK INDICATED ON THIS PLAN WITH:

EXISTING CONDITIONS LEGEND

SYMBOL	DESCRIPTION
	PROPERTY LINE
9	EXISTING MINOR CONTOUR
10	EXISTING MAJOR CONTOUR
D	DRAIN LINE
E	ELECTRICAL LINE
W	WATER LINE
	EXISTING POST LIGHT
	EXISTING TREES

PROJECT:

24-12-PLAN PALMER COVE RENOVATION PHASE 2

SALEM, MA 01970

No.	Date	Revision

CONSULTANTS:

Electrical Engineer
MHarris Design Inc.
Michael Harris
781.351.1247

Licensed Site Professional
Tighe & Bond, Inc.
Todd D. Kirton
413.572.3222

BID SET

Crowley Cottrell Landscape Architecture, LLC
171 Milk St, Fl 2
Boston, MA 02109

617.338.8400
www.crowleycottrell.com

STAMP:

DATE:
AUGUST 2, 2023

PROJECT NUMBER:	SCALE:
1804	1" = 30'-0"

DRAWING TITLE:

EXISTING CONDITIONS

EC100

SOIL MANAGEMENT NOTES:

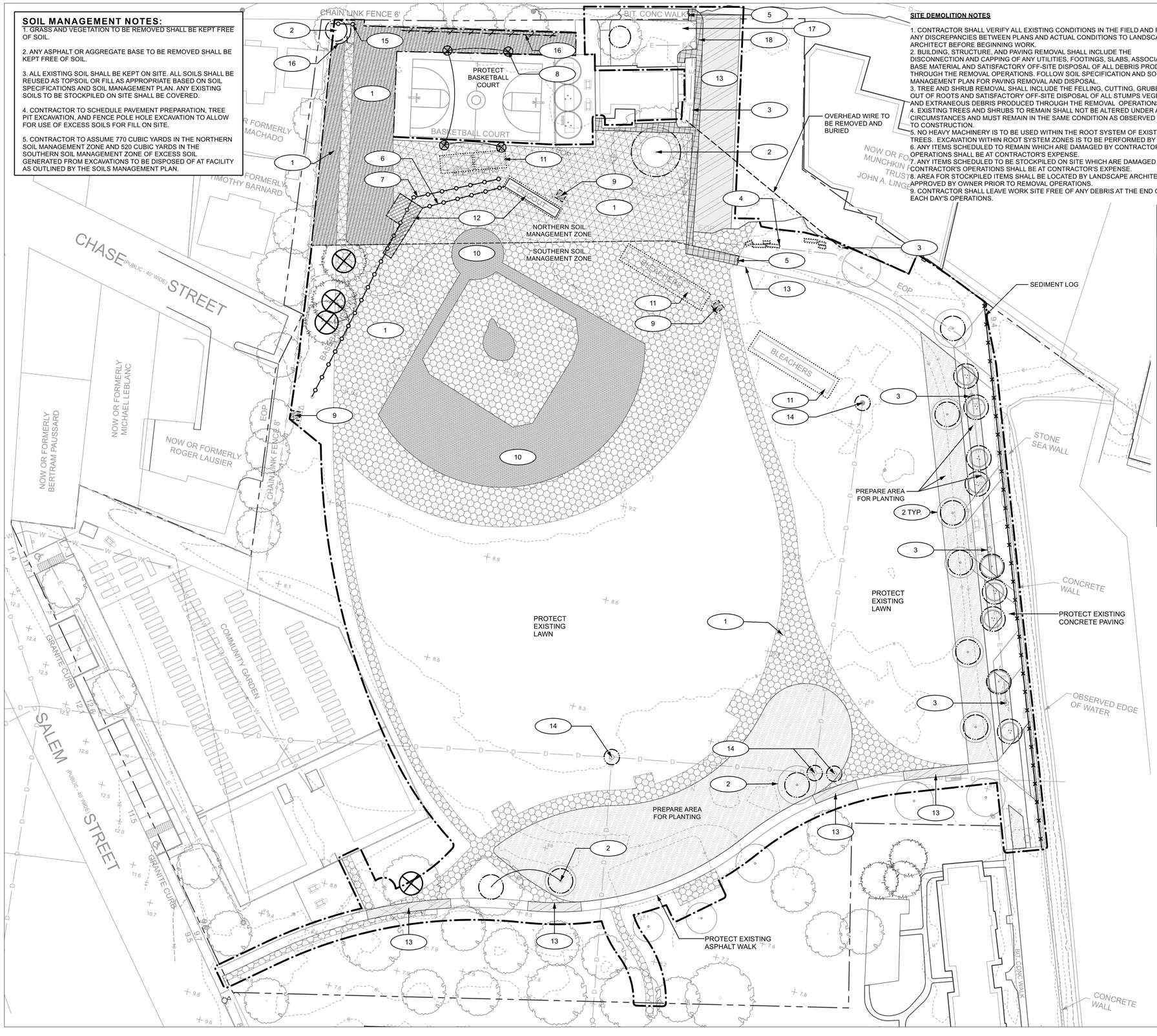
1. GRASS AND VEGETATION TO BE REMOVED SHALL BE KEPT FREE OF SOIL.

2. ANY ASPHALT OR AGGREGATE BASE TO BE REMOVED SHALL BE KEPT FREE OF SOIL.

3. ALL EXISTING SOIL SHALL BE KEPT ON SITE. ALL SOILS SHALL BE REUSED AS TOPSOIL OR FILL AS APPROPRIATE BASED ON SOIL SPECIFICATIONS AND SOIL MANAGEMENT PLAN. ANY EXISTING SOILS TO BE STOCKPILED ON SITE SHALL BE COVERED.

4. CONTRACTOR TO SCHEDULE PAVEMENT PREPARATION, TREE PIT EXCAVATION, AND FENCE POLE HOLE EXCAVATION TO ALLOW FOR USE OF EXCESS SOILS FOR FILL ON SITE.

5. CONTRACTOR TO ASSUME 770 CUBIC YARDS IN THE NORTHERN SOIL MANAGEMENT ZONE AND 520 CUBIC YARDS IN THE SOUTHERN SOIL MANAGEMENT ZONE OF EXCESS SOIL GENERATED FROM EXCAVATIONS TO BE DISPOSED OF AT FACILITY AS OUTLINED BY THE SOILS MANAGEMENT PLAN.



SITE DEMOLITION NOTES

1. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS TO LANDSCAPE ARCHITECT BEFORE BEGINNING WORK.
2. BUILDING, STRUCTURE, AND PAVING REMOVAL SHALL INCLUDE THE DISCONNECTION AND CAPPING OF ANY UTILITIES, FOOTINGS, SLABS, ASSOCIATED BASE MATERIAL AND SATISFACTORY OFF-SITE DISPOSAL OF ALL DEBRIS PRODUCED THROUGH THE REMOVAL OPERATIONS. FOLLOW SOIL SPECIFICATION AND SOIL MANAGEMENT PLAN FOR PAVING REMOVAL AND DISPOSAL.
3. TREE AND SHRUB REMOVAL SHALL INCLUDE THE FELLING, CUTTING, GRUBBING OUT OF ROOTS AND SATISFACTORY OFF-SITE DISPOSAL OF ALL STUMPS VEGETATIVE AND EXTRANEOUS DEBRIS PRODUCED THROUGH THE REMOVAL OPERATIONS.
4. EXISTING TREES AND SHRUBS TO REMAIN SHALL NOT BE ALTERED UNDER ANY CIRCUMSTANCES AND MUST REMAIN IN THE SAME CONDITION AS OBSERVED PRIOR TO CONSTRUCTION.
5. NO HEAVY MACHINERY IS TO BE USED WITHIN THE ROOT SYSTEM OF EXISTING TREES. EXCAVATION WITHIN ROOT SYSTEM ZONES IS TO BE PERFORMED BY HAND.
6. ANY ITEMS SCHEDULED TO REMAIN WHICH ARE DAMAGED BY CONTRACTOR'S OPERATIONS SHALL BE AT CONTRACTOR'S EXPENSE.
7. ANY ITEMS SCHEDULED TO BE STOCKPILED ON SITE WHICH ARE DAMAGED BY CONTRACTOR'S OPERATIONS SHALL BE AT CONTRACTOR'S EXPENSE.
8. AREA FOR STOCKPILED ITEMS SHALL BE LOCATED BY LANDSCAPE ARCHITECT AND APPROVED BY OWNER PRIOR TO REMOVAL OPERATIONS.
9. CONTRACTOR SHALL LEAVE WORK SITE FREE OF ANY DEBRIS AT THE END OF EACH DAY'S OPERATIONS.

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SITE PREPARATION AND DEMOLITION LEGEND

SYMBOL	DESCRIPTION	DETAIL	SPEC
	PROPERTY LINE	-- -- --	-- -- --
	LIMIT OF WORK	-- -- --	-- -- --
	PROTECT EXISTING TREE	1 / L500	015690
	SEDIMENT LOG	3 / L500	312500
	CONSTRUCTION FENCE, TYP.	2 / L500	015690
	STRIP AND STOCKPILE TOPSOIL - NORTHERN PORTION, TYP.	-- -- --	312300
	STRIP AND STOCKPILE TOPSOIL - SOUTHERN PORTION, TYP.	-- -- --	312300
	STRIP AND STOCKPILE TOPSOIL - REMOVE NORTHERN PORTION EXISTING SOILS TO 12" FROM FINISH GRADE	-- -- --	312300
	REMOVE CLAY INFIELD, TYP.	-- -- --	024113
	MILL PAVEMENT - PREPARE FOR NEW TOP COAT, TYP.	-- -- --	024113
	REMOVE PAVEMENT, TYP.	-- -- --	024113
	REMOVE STRUCTURE, TYP.	-- -- --	024113
	PREPARE AREA FOR PLANTING, TYP.		329222
	REMOVE SITE ELEMENT, TYP.		024113
	REMOVE TREE, TYP.		311300
	SAWCUT PAVING, TYP.		024113
	REMOVE CHAIN LINK FENCE, TYP.		024113
	SALVAGE FOR RE-USE TYP.		

DEMOLITION KEY NOTES

1. STRIP GRASS & VEGETATION FREE OF SOIL. SOIL TO REMAIN IN 1 PLACE OR BE REUSED ON SITE. FOLLOW SOILS SPECIFICATION AND SOIL MANAGEMENT PLAN FOR DISPOSAL OF MATERIALS.
2. PROTECT EXISTING TREES, TYP.
3. PROTECT POST LIGHTS AND UNDERGROUND ELECTRIC: 3 AT WATERFRONT, 2 AT LEAVITT ST PARKING LOT.
4. REMOVE 7 GRANITE STONES AT LEAVITT ST PARKING LOT. SALVAGE FOR REUSE.
5. SAW CUT ASPHALT PAVING, TYP. AT LEAVITT STREET SIDEWALK AND WATERFRONT PATH FROM ON-POINT
6. REMOVE CHAIN LINK FENCE AT BASEBALL FIELD, REMOVE FOOTINGS 1' BELOW FINISH GRADE, MINIMUM.
7. REMOVE SPORTS NETTING AT BASEBALL FIELD.
8. REMOVE 4 POST LIGHTS AT BASKETBALL COURT.
9. REMOVE BASE AND FOOTING OF 3 SPORTS FIELD LIGHTS. POST AND LIGHTS HAVE BEEN REMOVED BY CITY.
10. REMOVE CLAY INFIELD. FOLLOW DEMO AND REMOVALS SPEC., SOILS SPEC., AND SOIL MANAGEMENT PLAN FOR DISPOSAL OF MATERIALS.
11. SALVAGE 4 BLEACHERS FOR RELOCATION
12. DEMOLISH AND DISPOSE OF DUGOUTS.
13. MILL PAVEMENT AND PREP TO FEATHER WITH NEW PATH OR EXISTING PARKING LOT. FOLLOW DEMO AND REMOVALS SPEC., SOILS SPEC., AND SOIL MANAGEMENT PLAN FOR DISPOSAL OF MATERIALS.
14. PROTECT EXISTING DRAINAGE STRUCTURES.
15. REMOVE 2 PANELS OF EXISTING CHAIN LINK FENCE AT LEAVITT STREET.
16. ROOT PRUNE TREES PRIOR TO EXCAVATION. FOLLOW SOIL MANAGEMENT PLAN TO MINIMIZE DUST.
17. LOCATE AND CAP EXISTING WATERLINE AT LEAVITT STREET. COORDINATE WITH CITY ENGINEER.
18. REMOVE AND STOCKPILE ASPHALT PAVING AT PARKING LOT SIDEWALK; BASE TO REMAIN. FOLLOW DEMO AND REMOVALS SPEC., SOILS SPEC., AND SOIL MANAGEMENT PLAN FOR DISPOSAL OF MATERIALS.

N

0 30 60 90 FT

PROJECT:

24-12-PLAN PALMER COVE RENOVATION PHASE 2

SALEM, MA 01970

No.	Date	Revision

CONSULTANTS:

Electrical Engineer
MHarris Design Inc.
Michael Harris
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Licensed Site Professional
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BID SET

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Boston, MA 02109

617.338.8400
www.crowleycottrell.com

STAMP:

MASSACHUSETTS RICHARD J. COTTRELL NO. 4351 REGISTERED LANDSCAPE ARCHITECT

DATE: AUGUST 2, 2023

PROJECT NUMBER: 1804

SCALE: 1" = 30'-0"

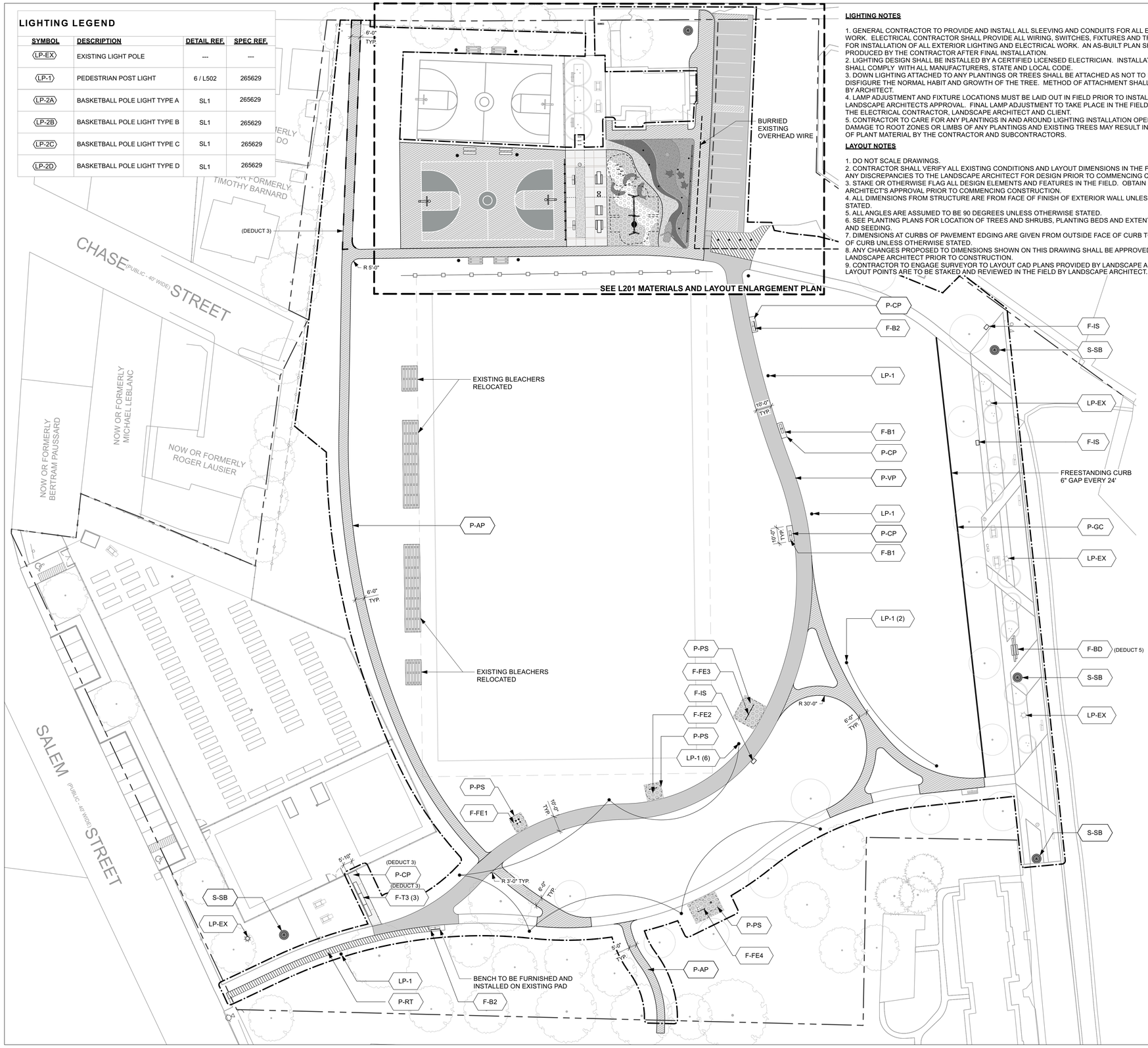
DRAWING TITLE:

DEMOLITION PLAN

L100

LIGHTING LEGEND

SYMBOL	DESCRIPTION	DETAIL REF.	SPEC REF.
LP-EX	EXISTING LIGHT POLE	---	---
LP-1	PEDESTRIAN POST LIGHT	6 / L502	265629
LP-2A	BASKETBALL POLE LIGHT TYPE A	SL1	265629
LP-2B	BASKETBALL POLE LIGHT TYPE B	SL1	265629
LP-2C	BASKETBALL POLE LIGHT TYPE C	SL1	265629
LP-2D	BASKETBALL POLE LIGHT TYPE D	SL1	265629



LIGHTING NOTES

1. GENERAL CONTRACTOR TO PROVIDE AND INSTALL ALL SLEEVING AND CONDUITS FOR ALL ELECTRICAL WORK. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL WIRING, SWITCHES, FIXTURES AND TRANSFORMERS FOR INSTALLATION OF ALL EXTERIOR LIGHTING AND ELECTRICAL WORK. AN AS-BUILT PLAN SHALL BE PRODUCED BY THE CONTRACTOR AFTER FINAL INSTALLATION.
2. LIGHTING DESIGN SHALL BE INSTALLED BY A CERTIFIED LICENSED ELECTRICIAN. INSTALLATION METHODS SHALL COMPLY WITH ALL MANUFACTURERS, STATE AND LOCAL CODE.
3. DOWN LIGHTING ATTACHED TO ANY PLANTINGS OR TREES SHALL BE ATTACHED AS NOT TO HARM OR DISFIGURE THE NORMAL HABIT AND GROWTH OF THE TREE. METHOD OF ATTACHMENT SHALL BE APPROVED BY ARCHITECT.
4. LAMP ADJUSTMENT AND FIXTURE LOCATIONS MUST BE LAID OUT IN FIELD PRIOR TO INSTALLATION FOR LANDSCAPE ARCHITECTS APPROVAL. FINAL LAMP ADJUSTMENT TO TAKE PLACE IN THE FIELD AT NIGHT WITH THE ELECTRICAL CONTRACTOR, LANDSCAPE ARCHITECT AND CLIENT.
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LAYOUT NOTES

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9. CONTRACTOR TO ENGAGE SURVEYOR TO LAYOUT CAD PLANS PROVIDED BY LANDSCAPE ARCHITECT. LAYOUT POINTS ARE TO BE STAKED AND REVIEWED IN THE FIELD BY LANDSCAPE ARCHITECT.

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MATERIALS LEGEND

SYMBOL	DESCRIPTION	DETAIL	SPEC
	PROPERTY LINE	-- -- --	-- -- --
	LIMIT OF WORK	-- -- --	-- -- --
P-	PAVING		
P-VP	VEHICULAR ASPHALT	5 / L500	321216
P-AP	ASPHALT PAVING - PEDESTRIAN	4 / L500	321216
P-CP	CAST-IN-PLACE CONCRETE PAVING - PEDESTRIAN, TYP.	6 / L500	033000
P-RA	TREE PLANTING IN RESIN BOUND AGGREGATE	2 / L505	321545.1
P-PS	PLAY SURFACING	6 / L503	321816
P-FP	FLEXIBLE PAVEMENT	9 / L500	321816
P-GC	GRANITE CURB	7 / L500	321640
P-RT	REINFORCED TURF	5 / L505	321243
P-ST	PAVEMENT STRIPING	1 / L503	321723
S-	SITE STRUCTURES		
S-FN	CHAIN LINK FENCING, 10'	7 / L502	323113
S-SB	SCULPTURE BASE	1&2 / S100	S100
S-SF	CHAIN LINK SPORTS FENCING, 16'	5 / L502	323113
S-TG	TIMBER GUARDRAIL	8 / L502	129300
S-BL	REMOVABLE VEHICULAR BOLLARD	9 / L502	129300
S-WH	WHEEL STOPS, (DEDUCT 6)	4 / L502	-- -- --
F-	FURNISHINGS		
F-BH	BASKETBALL HOOP	10 / L502	116816
F-BL	BLEACHERS, (DEDUCT 4)	-- -- --	129300
F-B1	BENCH, BACKLESS	3 / L501	129300
F-B2	BENCH, BACKED	4 / L501	129300
F-B3	TEAM BENCHES	-- -- --	129300
F-BD	DRIFTER BENCH STRUCTURE, (DEDUCT 5)	5 / L501	129300
F-GR	GRILL	1 / L502	129300
F-T1	PICNIC SET 1	1 / L501	129300
F-T2	PICNIC SET 2	2 / L501	129300
F-T3	BAR HEIGHT TABLE, (DEDUCT 3)	6 / L501	129300
F-SP	SLACK LINE / HAMMOCK POST	3 / L502	129300
F-BR	BIKE RACK	7 / L503	129300
F-TR	TRASH RECEPTACLE	2 / L502	129300
F-ES	PARK ENTRY SIGN	1 / L504	129300
F-IS	INTERPRETIVE SIGN	2 / L504	129300
F-PE1	PLAY EQUIPMENT 1	6 / L503	116816
F-PE2	PLAY EQUIPMENT 2	6 / L503	116816
F-FE1	FITNESS EQUIPMENT 1	2 / L503	116816
F-FE2	FITNESS EQUIPMENT 2	3 / L503	116816
F-FE3	FITNESS EQUIPMENT 3	4 / L503	116816
F-FE4	FITNESS EQUIPMENT 4	5 / L503	116816

N

0 30 60 90 FT

PROJECT:

24-12-PLAN PALMER COVE RENOVATION PHASE 2

SALEM, MA 01970

No.	Date	Revision

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MASSACHUSETTS REGISTERED LANDSCAPE ARCHITECT NO. 4251 MICHAEL J. COTTRELL

DATE: AUGUST 2, 2023

PROJECT NUMBER: 1804

SCALE: 1" = 30'-0"

DRAWING TITLE:

MATERIALS AND LAYOUT PLAN

L200

LIGHTING LEGEND

SYMBOL	DESCRIPTION	DETAIL REF.	SPEC REF.
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LAYOUT NOTES

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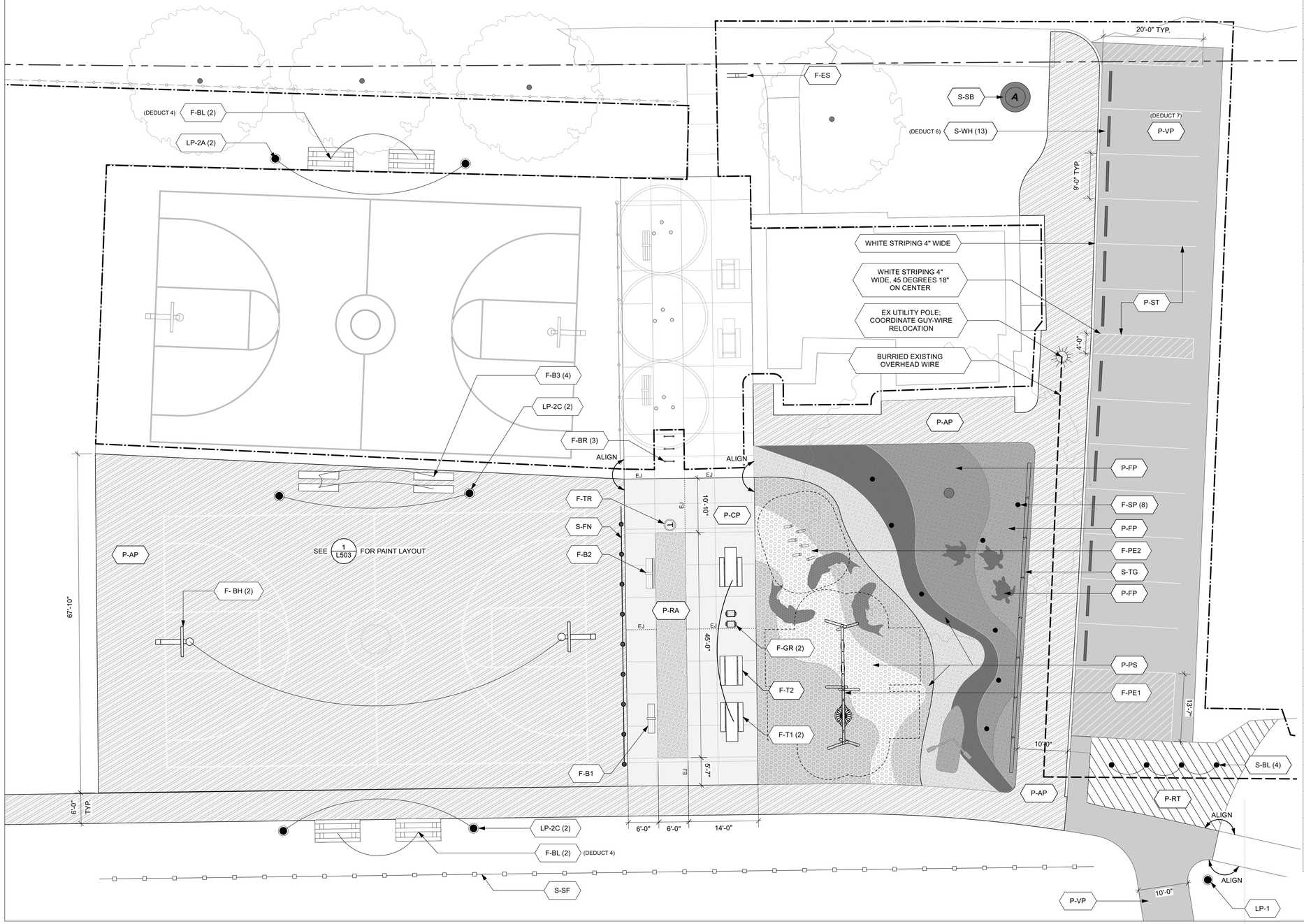

MATERIALS LEGEND

SYMBOL	DESCRIPTION	DETAIL	SPEC
	PROPERTY LINE	-- -- --	-- -- --
	LIMIT OF WORK	-- -- --	-- -- --
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P-GC	GRANITE CURB	7 / L500	321640
P-RT	REINFORCED TURF	5 / L505	321243
P-ST	PAVEMENT STRIPING	1 / L503	321723
S-	SITE STRUCTURES		
S-FN	CHAIN LINK FENCING, 10'	7 / L502	323113
S-SB	SCULPTURE BASE	1&2 / S100	S100
S-SF	CHAIN LINK SPORTS FENCING, 16'	5 / L502	323113
S-TG	TIMBER GUARDRAIL	8 / L502	129300
S-BL	REMOVABLE VEHICULAR BOLLARD	9 / L502	129300
S-WH	WHEEL STOPS, (DEDUCT 6)	4 / L502	-- -- --
F-	FURNISHINGS		
F-BH	BASKETBALL HOOP	10 / L502	116816
F-BL	BLEACHERS, (DEDUCT 4)	-- -- --	129300
F-B1	BENCH, BACKLESS	3 / L501	129300
F-B2	BENCH, BACKED	4 / L501	129300
F-B3	TEAM BENCHES	-- -- --	129300
F-BD	DRIFTER BENCH STRUCTURE, (DEDUCT 5)	5 / L501	129300
F-GR	GRILL	1 / L502	129300
F-T1	PICNIC SET 1	1 / L501	129300
F-T2	PICNIC SET 2	2 / L501	129300
F-T3	BAR HEIGHT TABLE, (DEDUCT 3)	6 / L501	129300
F-SP	SLACK LINE / HAMMOCK POST	3 / L502	129300
F-BR	BIKE RACK	7 / L503	129300
F-TR	TRASH RECEPTACLE	2 / L502	129300
F-ES	PARK ENTRY SIGN	1 / L504	129300
F-IS	INTERPRETIVE SIGN	2 / L504	129300
F-PE1	PLAY EQUIPMENT 1	6 / L503	116816
F-PE2	PLAY EQUIPMENT 2	6 / L503	116816
F-FE1	FITNESS EQUIPMENT 1	2 / L503	116816
F-FE2	FITNESS EQUIPMENT 2	3 / L503	116816
F-FE3	FITNESS EQUIPMENT 3	4 / L503	116816
F-FE4	FITNESS EQUIPMENT 4	5 / L503	116816

PROJECT:

24-12-PLAN PALMER COVE RENOVATION PHASE 2

SALEM, MA 01970

No.	Date	Revision

CONSULTANTS:

Electrical Engineer
MHarris Design Inc.
Michael Harris
781.351.1247

Licensed Site Professional
Tighe & Bond, Inc.
Todd D. Kirton
413.572.3222

BID SET

Crowley Cottrell Landscape Architecture, LLC
171 Milk St, Fl 2
Boston, MA 02109

617.338.8400
www.crowleycottrell.com

STAMP:

DATE: AUGUST 2, 2023

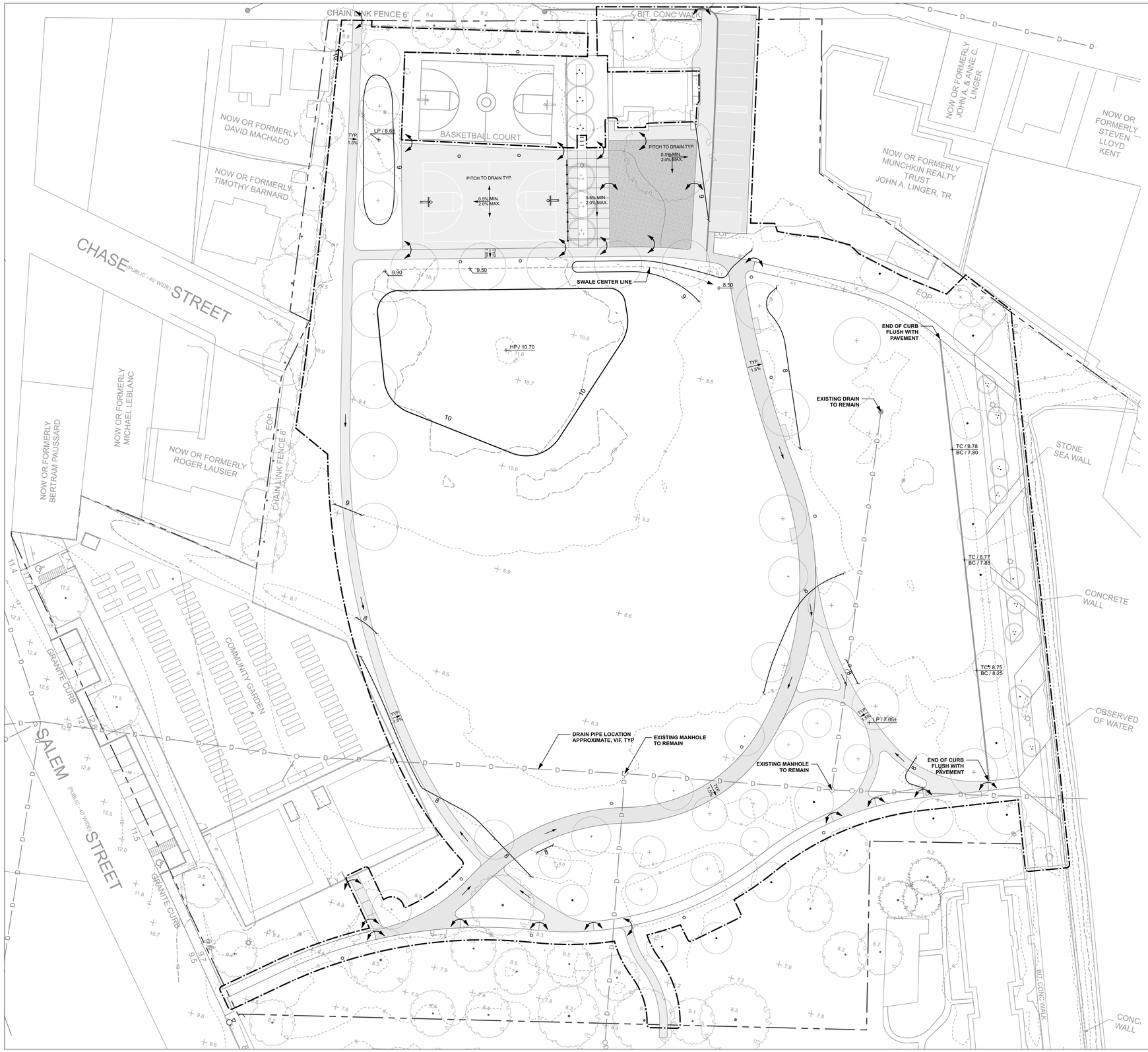
PROJECT NUMBER: 1804

SCALE: 1" = 10'-0"

DRAWING TITLE:

MATERIALS AND LAYOUT ENLARGEMENT PLAN

L201



GENERAL NOTES

1. EXCEPT WHERE NOTED, EXISTING CONDITIONS AND TOPOGRAPHY DATA ARE FROM A SURVEY PREPARED BY *MERIDIAN ASSOCIATES - 500 CUMMINGS CENTER, SUITE 5950, BEVERLY MA 01915 - APRIL 25, 2018.* WHERE NOTED ON EC-100, EXISTING CONDITIONS ARE BASED ON DESIGN DRAWINGS FROM PHASE 1 OF CONSTRUCTION AND ALL POINTS MUST BE VERIFIED IN FIELD, NO CLAIM IS MADE TO THE ACCURACY OF THESE POINTS.
2. CONTRACTOR SHALL VERIFY LOCATION OF ANY EXISTING UTILITIES AND SERVICES AND PROVIDE PROTECTION DURING CONSTRUCTION. UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AT CONTRACTORS EXPENSE.
3. CONTRACTOR SHALL OBTAIN PERMITS FOR THE WORK AS REQUIRED AND COMPLY WITH ALL LAWS, ORDINANCES, RULES AND REGULATIONS OF THE LOCAL JURISDICTION, THE STATE, AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
4. CONTRACTOR SHALL LEAVE SITE CLEAN AND ORDERLY DURING CONSTRUCTION PROCESS. REMOVE FROM SITE ALL EXCESS MATERIALS, SOIL, DEBRIS AND EQUIPMENT UPON APPROVAL BY ENGINEER/LSP IN ACCORDANCE WITH DEMO AND REMOVALS SPECIFICATION, SOILS SPECIFICATION, AND SOILS MANAGEMENT PLAN. STORE MATERIALS ONLY IN AN APPROVED LOCATION.

GRADING NOTES

1. CONTRACTOR SHALL VERIFY ALL EXISTING GRADES IN THE FIELD AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE LANDSCAPE ARCHITECT.
2. STAKE PROPOSED FINISH GRADE AND CUT/FILLS OF EXISTING GRADE IN THE FIELD. OBTAIN LANDSCAPE ARCHITECT'S APPROVAL PRIOR TO COMMENCING CONSTRUCTION.
3. SLOPE AWAY FROM ALL BUILDINGS.
4. PROVIDE VERTICAL CURVES OR ROUNDINGS AT ABRUPT CHANGES IN GRADE UNLESS OTHERWISE NOTED. BLEND NEW EARTHWORK SMOOTHLY INTO EXISTING GRADES.
5. MAINTAIN EXISTING GRADES AT EXISTING PLANT MATERIAL TO REMAIN
6. GRADE SURFACES TO ASSURE POSITIVE DRAINAGE FROM ALL STRUCTURES AND TO PREVENT PONDING OF SURFACE DRAINAGE.
7. ALL FILL MATERIAL IS SUBJECT TO APPROVAL BY LANDSCAPE ARCHITECT.
8. PITCH EVENLY BETWEEN SPOT GRADES. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MINIMUM OF 1/8" PER FOOT AND NOT EXCEED 5% RUNNING SLOPE. ANY DISCREPANCIES NOT ALLOWING THIS TO OCCUR SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT PRIOR TO CONTINUING WORK.
9. ONCE GRADING OPERATIONS ARE COMPLETED, ALL DISTURBED AREAS WITHIN OR OUTSIDE OF THE LIMITS OF WORK SHALL BE STABILIZED BY FINE GRADING AND SEEDING OR MULCHING AS DIRECTED BY THE LANDSCAPE ARCHITECT.
10. ALL EROSION CONTROL MEASURES ARE TO BE CONSTRUCTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING MATERIAL ON BALANCE OF SITE.

GRADING LEGEND

SYMBOL	DESCRIPTION
— — —	PROPERTY LINE
—·—·—	LIMIT OF WORK
9	PROPOSED MINOR CONTOUR
10	PROPOSED MAJOR CONTOUR
- - - 9 - - -	EXISTING MINOR CONTOUR
- - - 10 - - -	EXISTING MAJOR CONTOUR
- - - - - -	GRADE BREAK, RIDGE LINE, INTERSECT PLANAR SURFACES
9.10'	SPOT ELEVATION
2.0%	SLOPES (ARROW POINTS DOWNSLOPE)
	FLUSH CONDITION

SOIL MANAGEMENT NOTES:

1. GRASS AND VEGETATION TO BE REMOVED SHALL BE KEPT FREE OF SOIL.

2. ANY ASPHALT OR AGGREGATE BASE TO BE REMOVED SHALL BE KEPT FREE OF SOIL.

3. ALL EXISTING SOIL SHALL BE KEPT ON SITE. ALL SOILS SHALL BE REUSED AS TOPSOIL OR FILL AS APPROPRIATE BASED ON SOIL SPECIFICATIONS AND SOIL MANAGEMENT PLAN. ANY EXISTING SOILS TO BE STOCKPILED ON SITE SHALL BE COVERED.

4. CONTRACTOR TO SCHEDULE PAVEMENT PREPARATION, TREE PIT EXCAVATION, AND FENCE POLE HOLE EXCAVATION TO ALLOW FOR USE OF EXCESS SOILS FOR FILL ON SITE.

5. CONTRACTOR TO ASSUME 770 CUBIC YARDS IN THE NORTHERN SOIL MANAGEMENT ZONE AND 520 CUBIC YARDS IN THE SOUTHERN SOIL MANAGEMENT ZONE OF EXCESS SOIL GENERATED FROM EXCAVATIONS TO BE DIPOSED OF AT FACILITY AS OUTLINED BY THE SOILS MANAGEMENT PLAN.

PROJECT:

24-12-PLAN PALMER COVE RENOVATION PHASE 2

SALEM, MA 01970

No.	Date	Revision

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STAMP:

DATE:
AUGUST 2, 2023

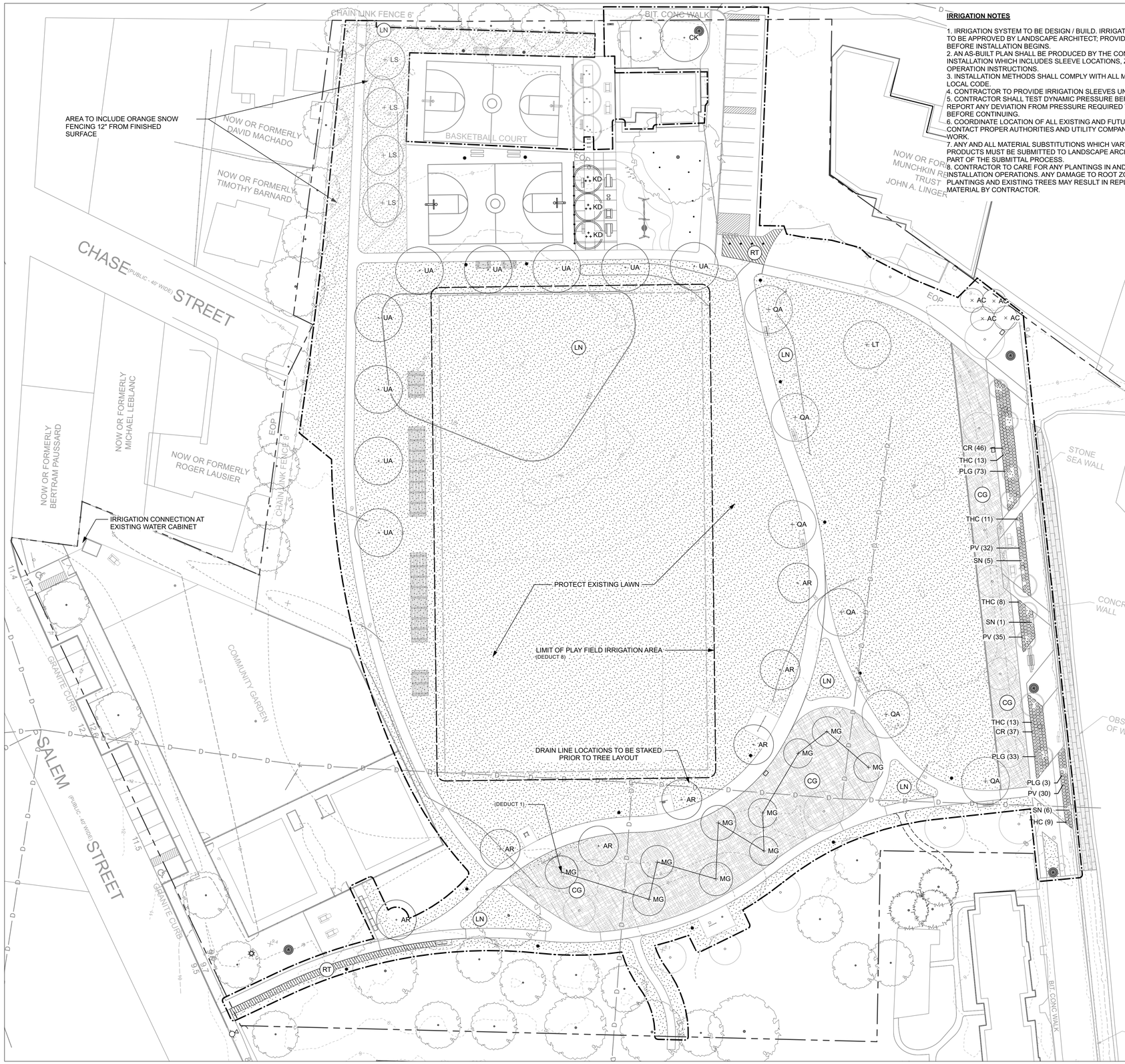
PROJECT NUMBER: 1804

SCALE: 1" = 30'-0"

DRAWING TITLE:

GRADING PLAN

L300



IRRIGATION NOTES

1. IRRIGATION SYSTEM TO BE DESIGN / BUILD. IRRIGATION COMPANY AND DESIGN TO BE APPROVED BY LANDSCAPE ARCHITECT; PROVIDE PLAN FOR APPROVAL BEFORE INSTALLATION BEGINS.
2. AN AS-BUILT PLAN SHALL BE PRODUCED BY THE CONTRACTOR AFTER FINAL INSTALLATION WHICH INCLUDES SLEEVE LOCATIONS, ZONE INFORMATION AND OPERATION INSTRUCTIONS.
3. INSTALLATION METHODS SHALL COMPLY WITH ALL MANUFACTURER, STATE AND LOCAL CODE.
4. CONTRACTOR TO PROVIDE IRRIGATION SLEEVES UNDER PAVED AREAS.
5. CONTRACTOR SHALL TEST DYNAMIC PRESSURE BEFORE STARTING WORK, REPORT ANY DEVIATION FROM PRESSURE REQUIRED TO LANDSCAPE ARCHITECT BEFORE CONTINUING.
6. COORDINATE LOCATION OF ALL EXISTING AND FUTURE UTILITIES ON SITE AND CONTACT PROPER AUTHORITIES AND UTILITY COMPANIES BEFORE START OF WORK.
7. ANY AND ALL MATERIAL SUBSTITUTIONS WHICH VARY FROM THE SPECIFIED PRODUCTS MUST BE SUBMITTED TO LANDSCAPE ARCHITECT FOR APPROVAL AS PART OF THE SUBMITTAL PROCESS.
8. CONTRACTOR TO CARE FOR ANY PLANTINGS IN AND AROUND IRRIGATION INSTALLATION OPERATIONS. ANY DAMAGE TO ROOT ZONES OR LIMBS OF ANY PLANTINGS AND EXISTING TREES MAY RESULT IN REPLACEMENT OF PLANT MATERIAL BY CONTRACTOR.

GENERAL NOTES

1. EXCEPT WHERE NOTED, EXISTING CONDITIONS AND TOPOGRAPHY DATA ARE FROM A SURVEY PREPARED BY *MERIDIAN ASSOCIATES - 500 CUMMINGS CENTER, SUITE 5950, BEVERLY MA 01915 - APRIL 25, 2018.* WHERE NOTED ON EC-100, EXISTING CONDITIONS ARE BASED ON DESIGN DRAWINGS FROM PHASE 1 OF CONSTRUCTION AND ALL POINTS MUST BE VERIFIED IN FIELD, NO CLAIM IS MADE TO THE ACCURACY OF THESE POINTS.
2. CONTRACTOR SHALL VERIFY LOCATION OF ANY EXISTING UTILITIES AND SERVICES AND PROVIDE PROTECTION DURING CONSTRUCTION. UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AT CONTRACTORS EXPENSE.
3. CONTRACTOR SHALL OBTAIN PERMITS FOR THE WORK AS REQUIRED AND COMPLY WITH ALL LAWS, ORDINANCES, RULES AND REGULATIONS OF THE LOCAL JURISDICTION, THE STATE, AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
4. CONTRACTOR SHALL LEAVE SITE CLEAN AND ORDERLY DURING CONSTRUCTION PROCESS. REMOVE FROM SITE ALL EXCESS MATERIALS, SOIL, DEBRIS AND EQUIPMENT UPON APPROVAL BY ENGINEER/LSP IN ACCORDANCE WITH DEMO AND REMOVALS SPECIFICATION, SOILS SPECIFICATION, AND SOILS MANAGEMENT PLAN. STORE MATERIALS ONLY IN AN APPROVED LOCATION.

PLANTING NOTES

1. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON ALL DRAWINGS.
2. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD. REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT FOR DESIGN PRIOR TO COMMENCING PLANTING.
3. ALL PLANT MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY "THE AMERICAN STANDARD FOR NURSERY STOCK" PUBLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION, LATEST EDITION.
4. ALL PLANTS SHALL BE BALLED AND BURLAP UNLESS OTHERWISE NOTED ON THE PLANT LIST.
5. ALL PLANTS SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO THEIR INSTALLATION AT THE SITE.
6. CONTRACTOR SHALL STAKE ALL PLANT LOCATIONS IN THE FIELD. OBTAIN APPROVAL OF LANDSCAPE ARCHITECT BEFORE STARTING PLANT INSTALLATIONS.
7. PLANTS TO BE TRANSPLANTED SHALL BE FLAGGED AND EXACT PLANTING LOCATIONS STAKED IN THE FIELD.
8. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES ARE TO BE FINE GRADED AND SEEDED.

PLANTING LEGEND

SYMBOL	DESCRIPTION	DETAIL REF.	SPEC REF.
	PROPERTY LINE	-- -- --	-- -- --
	LIMIT OF WORK	-- -- --	-- -- --
PLANT I.D. AF	PROPOSED TREE	1 / L504	329300
PLANT I.D. SN	PERENNIALS	3 / L504	329300
LN	SEEDED LAWN	4 / L504	329200
RT	REINFORCED TURF	5 / L504	321243
CG	SEEDED COSTAL GRASS MIX	6 / L504	329222

PLANT LIST

ID	QTY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
TREES					
AC	4	Amelanchier canadensis	Shadblow Serviceberry	10-12' HT.	B&B
AR	7	Acer rubrum	Red Maple	3-3.5" cal.	B&B
CK	1	Cladrastis kentukea	Kentucky Yellowwood	3-3.5" cal.	B&B
KD	3	Cornus kousa	Kousa Dogwood	12'-14' HT.	B&B
LS	4	Liquidambar styraciflua	Sweet Gum	3.5"-4" cal.	B&B
LT	1	Liriodendron tulipifera	Tulip Tree	3.5"-4" cal.	B&B
MG	10	Metasequoia glyptostroboides	Dawn Redwood	3.5"-4" cal.	B&B (DEDUCT 1)
QA	6	Quercus alba	White Oak	3.5"-4" cal.	B&B
UA	9	Ulmus americana 'Princeton'	Princeton Elm	3"-3.5" cal.	B&B
PERENNIALS					
CR	83	Elymus Canadensis	Canada Rye	#1 CONT.	
PLG	109	Eragrostis spectabilis	Purple Lovegrass	#1 CONT.	
PV	97	Panicum virgatum	Switchgrass	#1 CONT.	
SN	12	Sorghastrum nutans	Indian Grass	#2 CONT.	
THC	54	Coreopsis rosea	Threadleaf Coreopsis	#1 CONT.	
	0				
SEEDING					
CG	18,261 SQ FT	NEW ENGLAND COSTAL SALT TOLERANT GRASS MIX			
LN	135,352 SQ FT	AERATE AND OVERSEED LAWN			

NEW ENGLAND WETLAND PLANTS, INC

820 WEST STREET, AMHERST, MA 01002
PHONE: 413-548-8000 FAX 413-549-4000
EMAIL: INFO@NEWP.COM WEB ADDRESS: WWW.NEWP.COM

New England Coastal Salt Tolerant Grass Mix

Botanical Name	Common Name	Indicator
Elymus canadensis	Canada Wild Rye	FACU+
Festuca rubra	Red Fescue	FACU
Panicum amarum	Atlantic Coastal Panic Grass	FACU-
Andropogon gerardii	Big Bluestem	FAC
Sorghastrum nutans	Indian Grass	UPL
Panicum virgatum	Switch Grass	FAC
Juncus tenuis	Path Rush	FAC

APPLY: 35 LBS/ACRE :1250 sq ft/lb

The New England Coastal Salt Tolerant Seed Mix contains a selection of native grasses that tolerate salty conditions. This mix is appropriate for drier coastal areas that receive salt spray or mist. Always apply on clean bare soil. The mix may be applied by hydro-seeding, by mechanical spreader, or on small sites it can be spread by hand. Lightly rake, or roll to ensure proper seed to soil contact. Best results are obtained with a Spring seeding. Late Spring and early Summer seeding will benefit with a light mulching of weed-free straw to conserve moisture. If conditions are drier than usual, watering may be required. Late Fall and Winter dormant seeding require an increase in the seeding rate. Fertilization is not required unless the soils are particularly infertile. Preparation of a clean weed free soil surface is necessary for optimal results.

New England Wetland Plants, Inc. may modify seed mixes at any time depending upon seed availability. The design criteria and ecological function of the mix will remain unchanged. Price is $/bulk pound, FOB warehouse, Plus SH and applicable taxes.

N

0 30 60 90 FT

PROJECT:

24-12-PLAN PALMER COVE RENOVATION PHASE 2

SALEM, MA 01970

No.	Date	Revision

CONSULTANTS:

Electrical Engineer
MHarris Design Inc.
Michael Harris
781.351.1247

Licensed Site Professional
Tighe & Bond, Inc.
Todd D. Kirton
413.572.3222

BID SET

Crowley Cottrell Landscape Architecture, LLC
171 Milk St, Fl 2
Boston, MA 02109

617.338.8400
www.crowleycottrell.com

STAMP:

MASSACHUSETTS NAOMI J COTTRELL NO. 4251 REGISTERED LANDSCAPE ARCHITECT

DATE: AUGUST 2, 2023

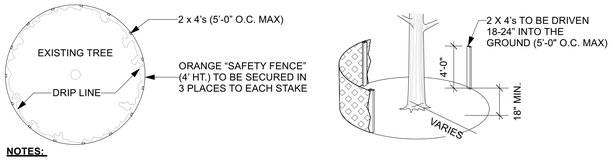
PROJECT NUMBER: 1804

SCALE: 1" = 30'-0"

DRAWING TITLE:

PLANTING PLAN

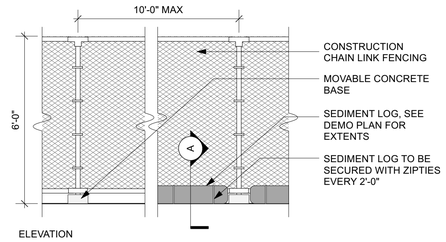
L400



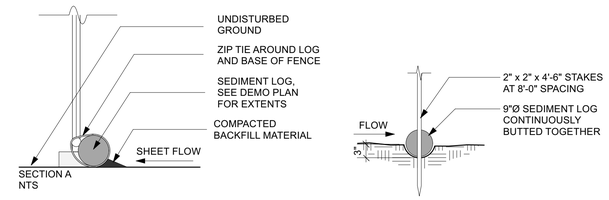
NOTES:

1. MAINTAIN FENCE PROTECTION IN SOUND CONDITION UNTIL PROJECT COMPLETION.
2. PROTECTIVE FENCE TO RUN OUTSIDE DRIPLINE UNLESS OTHERWISE REQIRED TO INSTALL IMPROVEMENTS. SPRAY OR STAKE LAYOUT OF ALL PROPOSED PAVING EDGES AND SITE FEATURES WITHIN THE DRIPLINE OF EXISTING TREES BEFORE BEGINNING ANY DEMOLITION WORK OR REMOVE EXISTING MATERIAL IN ORDER TO DETERMINE MAXIMUM EXTENTS OF SITE FENCING.
3. LAYOUT SHOWN ABOVE IS DIAGRAMMATIC ONLY.
4. LANDSCAPE ARCHITECT AND CITY OF SALEM TO APPROVE FENCE PLACEMENT IN FIELD BEFORE CONSTRUCTION BEGINS.

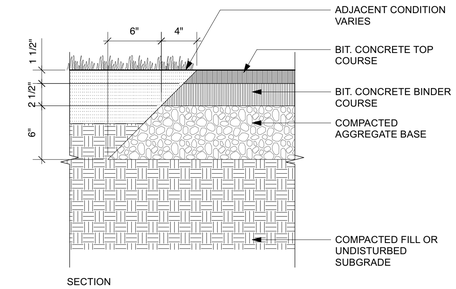
1 PROTECT EXISTING TREE
Scale: 1/2" = 1'-0"



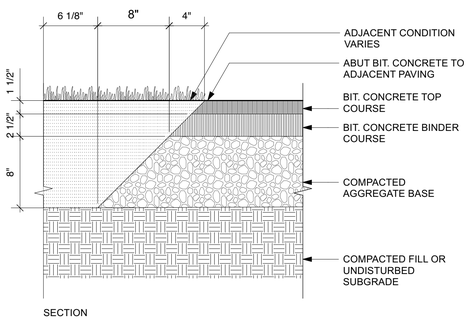
2 CONSTRUCTION FENCING
Scale: 3/8" = 1'-0"



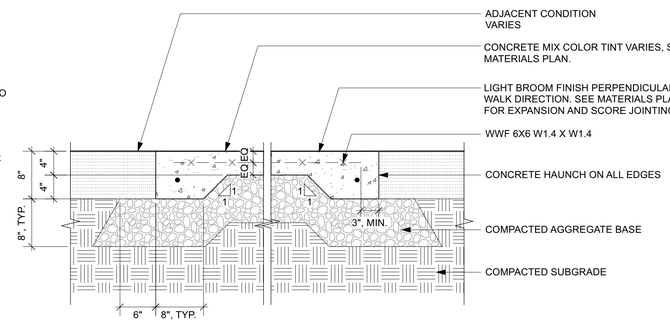
3 SEDIMENT LOG
Scale: 1/2" = 1'-0"



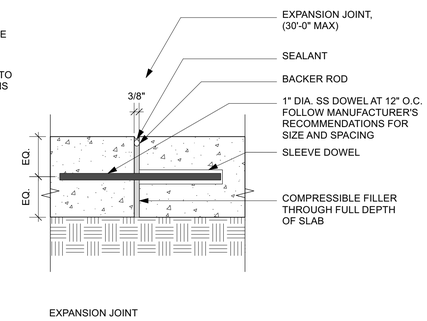
4 ASHPALT PAVING - PEDESTRIAN (P-AP)
Scale: 1 1/2" = 1'-0"

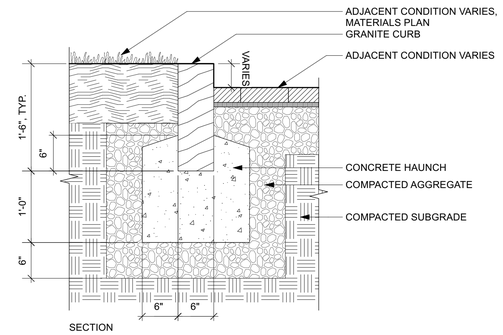


5 ASHPALT PAVING-VEHICULAR (P-VP)
Scale: 1 1/2" = 1'-0"

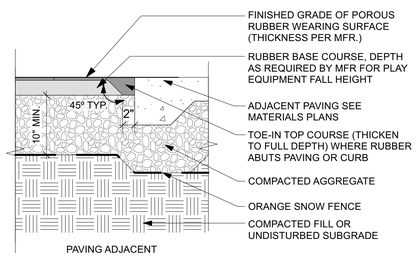


6 CONCRETE PAVING - PEDESTRIAN, TYP. (P-CP)
Scale: 1" = 1'-0"

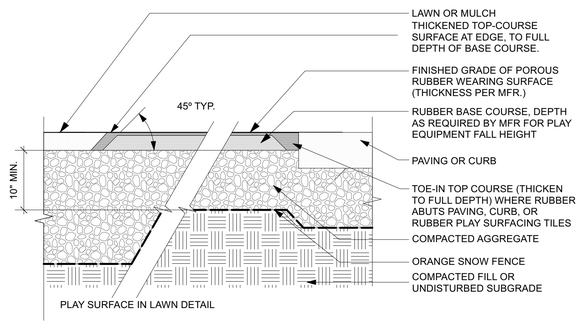




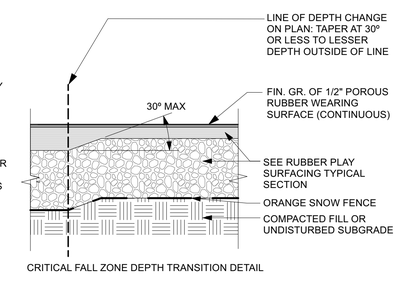
7 GRANITE CURB (P-GC)
Scale: 1" = 1'-0"



NOTE:
1. ORANGE SNOW FENCING TO BE USED AS DEMARCATION LAYER BENEATH SURFACING

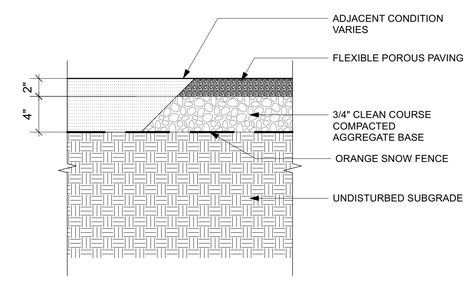


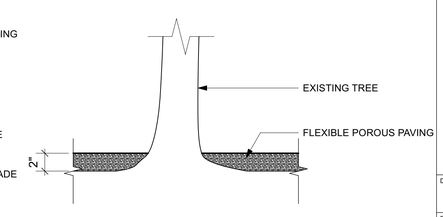
NOTE:
1. ORANGE SNOW FENCING TO BE USED AS DEMARCATION LAYER BENEATH SURFACING



NOTE:
1. ORANGE SNOW FENCING TO BE USED AS DEMARCATION LAYER BENEATH SURFACING

8 PLAY SURFACING (P-PS)
Scale: 1" = 1'-0"





NOTE:
1. ORANGE SNOW FENCING TO BE USED AS DEMARCATION LAYER BENEATH SURFACING

9 FLEXIBLE PAVEMENT (P-FP)
Scale: 1 1/2" = 1'-0"

PROJECT:

24-12-PLAN PALMER COVE RENOVATION PHASE 2

SALEM, MA 01970

No.	Date	Revision

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STAMP:

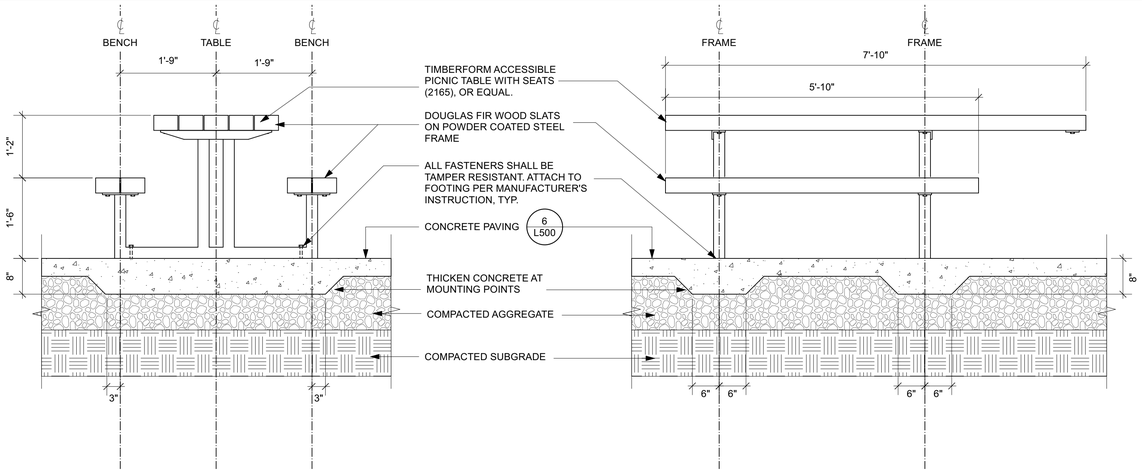
DATE:
AUGUST 2, 2023

PROJECT NUMBER: 1804
SCALE: NOTED

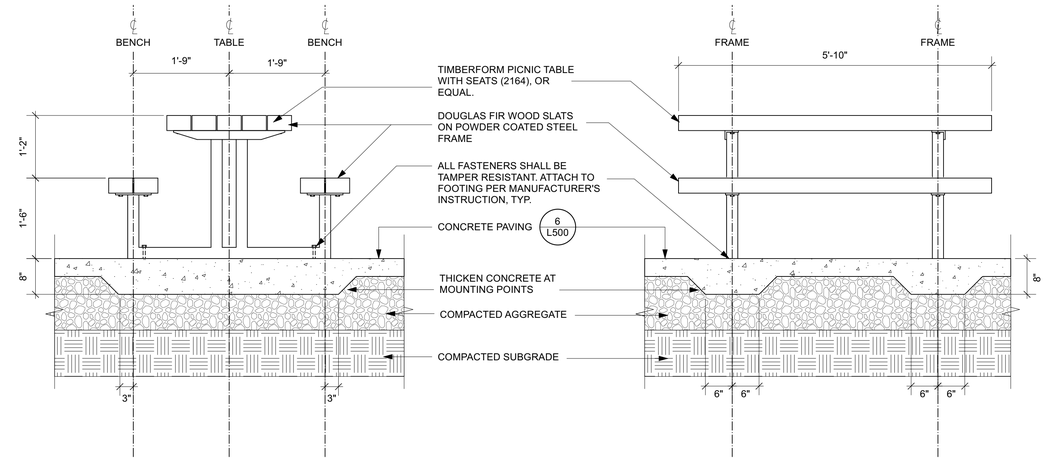
DRAWING TITLE:

LANDSCAPE DETAILS 1

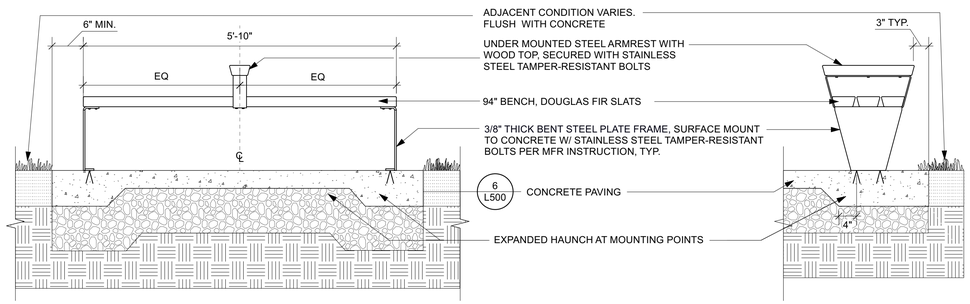
L500



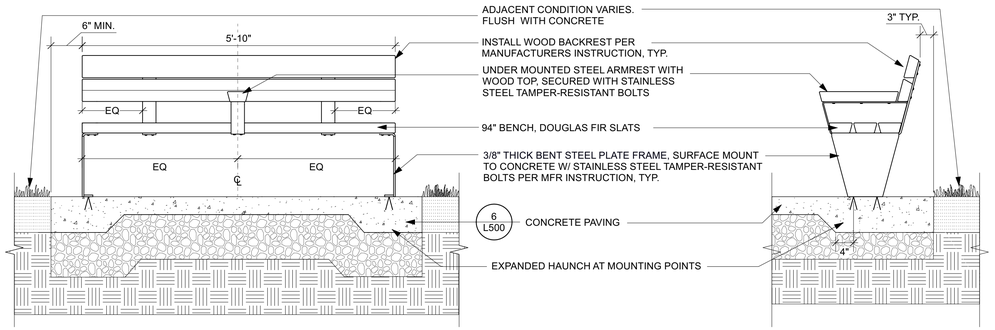
1 PICNIC SET 1 (F-T1)
Scale: 3/4" = 1'-0"



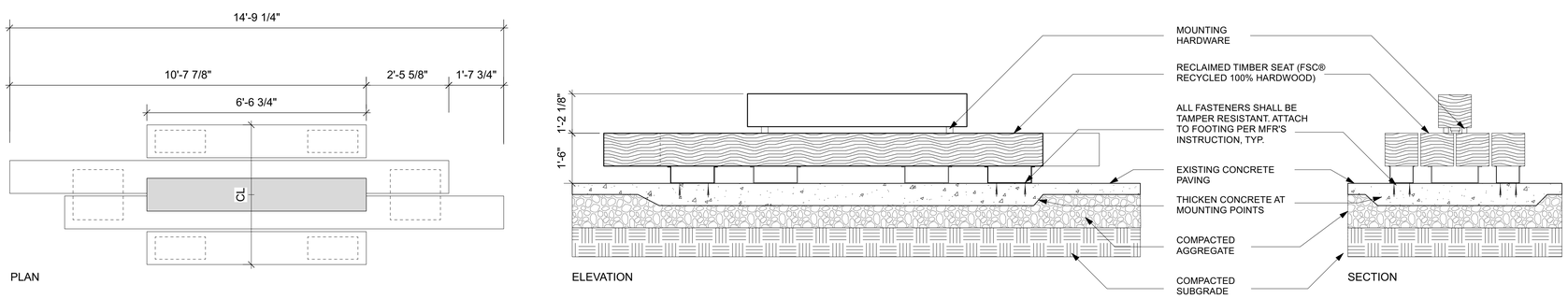
2 PICNIC SET 2 (F-T2)
Scale: 3/4" = 1'-0"



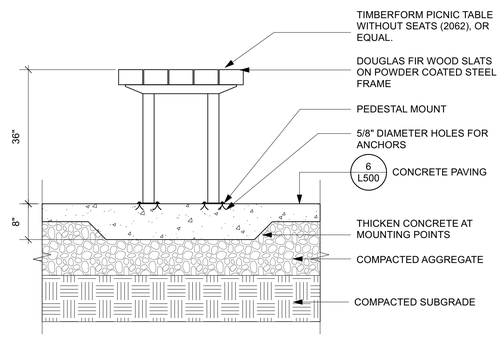
3 BENCH, BACKLESS (F-B1)
Scale: 3/4" = 1'-0"



4 BENCH, BACKED (F-B2)
Scale: 3/4" = 1'-0"



5 DRIFTER BENCH STRUCTURE (F-BD)
Scale: 1/2" = 1'-0"



6 BAR HEIGHT TABLE (F-T3)
Scale: 3/4" = 1'-0"

PROJECT:

24-12-PLAN PALMER COVE RENOVATION PHASE 2

SALEM, MA 01970

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STAMP:

DATE: AUGUST 2, 2023

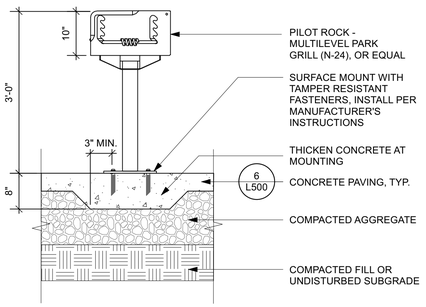
PROJECT NUMBER: 1804

SCALE: NOTED

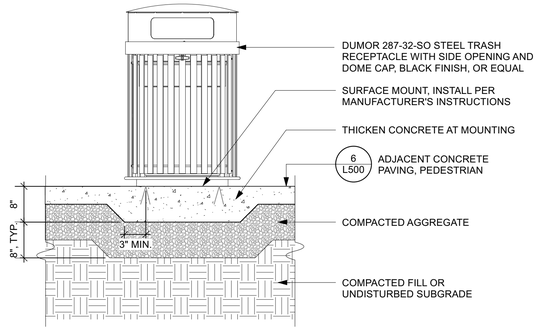
DRAWING TITLE:

LANDSCAPE DETAILS 2

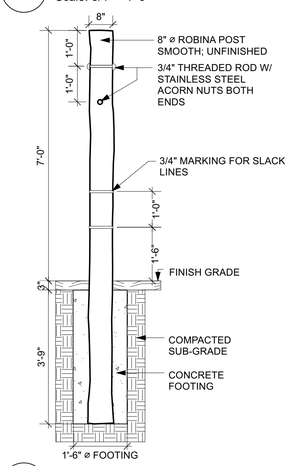
L501



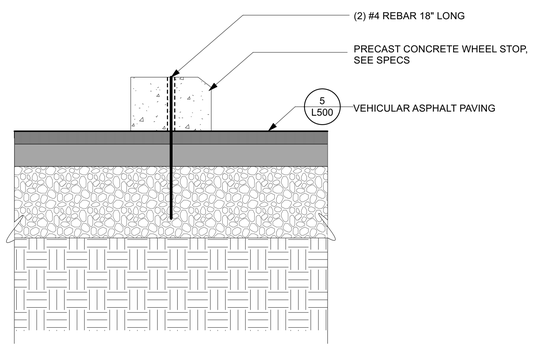
1 GRILL (F-GR)
Scale: 3/4" = 1'-0"



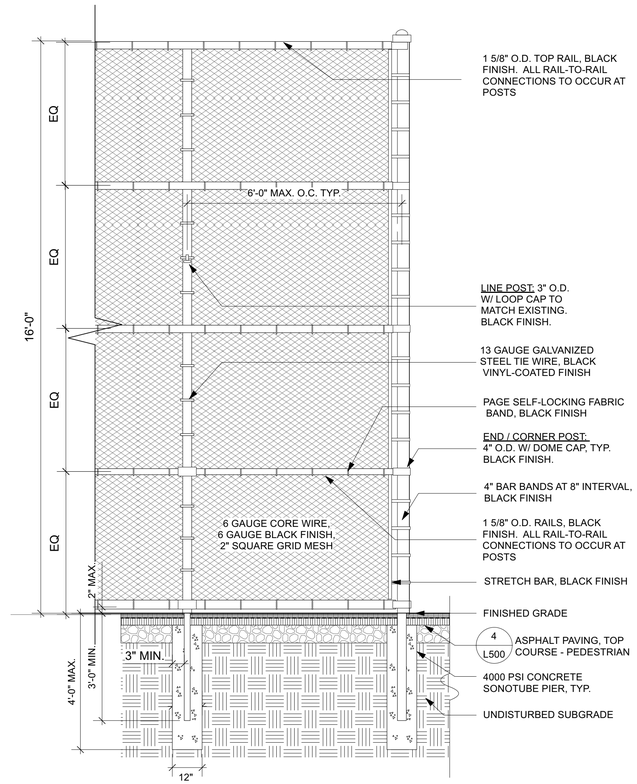
2 TRASH RECEPTACLE (F-TR)
Scale: 3/4" = 1'-0"



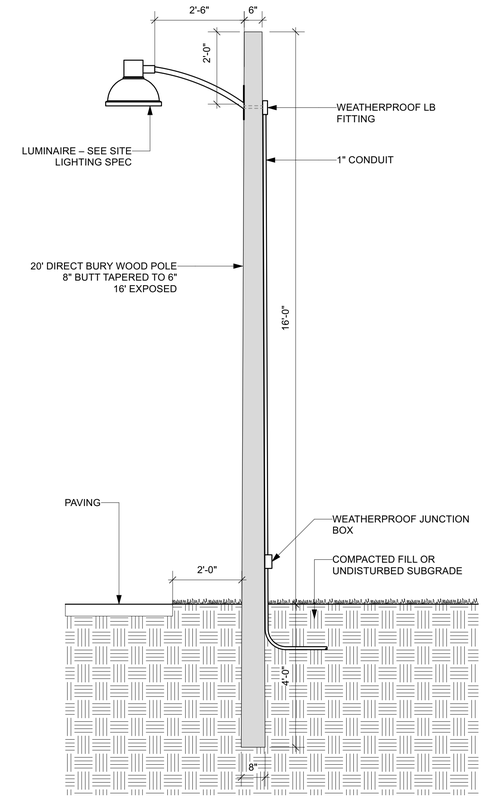
3 SLACKLINE/HAMMOCK POST (F-SP)
Scale: 1/2" = 1'-0"



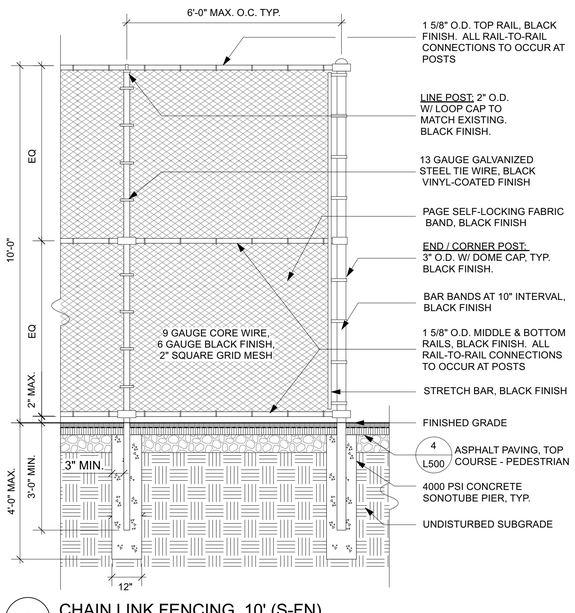
4 WHEEL STOP (S-WH)
Scale: 1 1/2" = 1'-0"



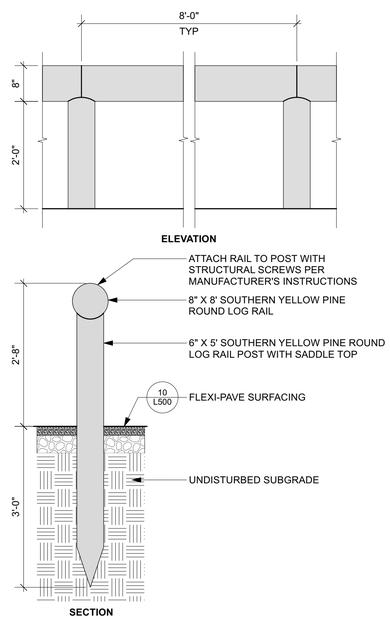
5 CHAIN LINK SPORTS FENCING, 16' (S-SF)
Scale: 1/2" = 1'-0"



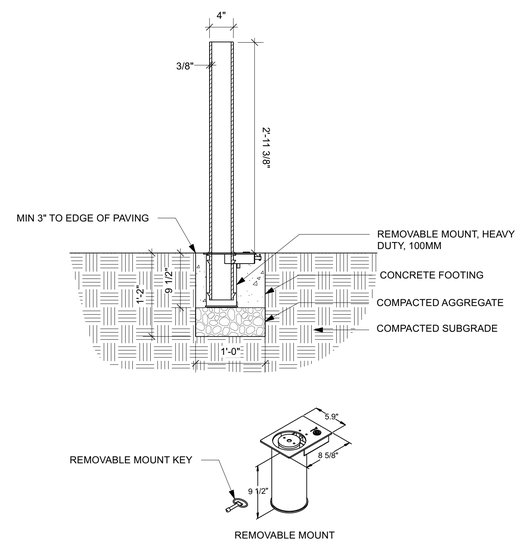
6 PEDESTRIAN POST LIGHT (LP-1)
Scale: 1/2" = 1'-0"



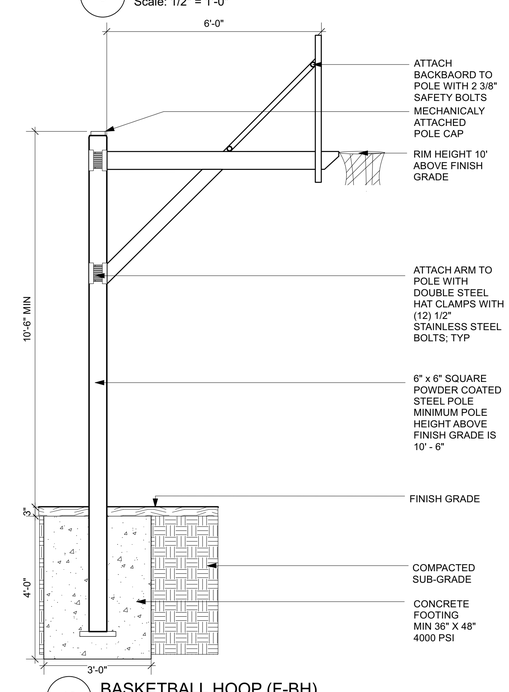
7 CHAIN LINK FENCING, 10' (S-FN)
Scale: 1/2" = 1'-0"



8 TIMBER GUARDRAIL (S-TG)
Scale: 3/4" = 1'-0"



9 REMOVABLE BOLLARD (S-BL)
Scale: 1" = 1'-0"



10 BASKETBALL HOOP (F-BH)
Scale: 1/2" = 1'-0"

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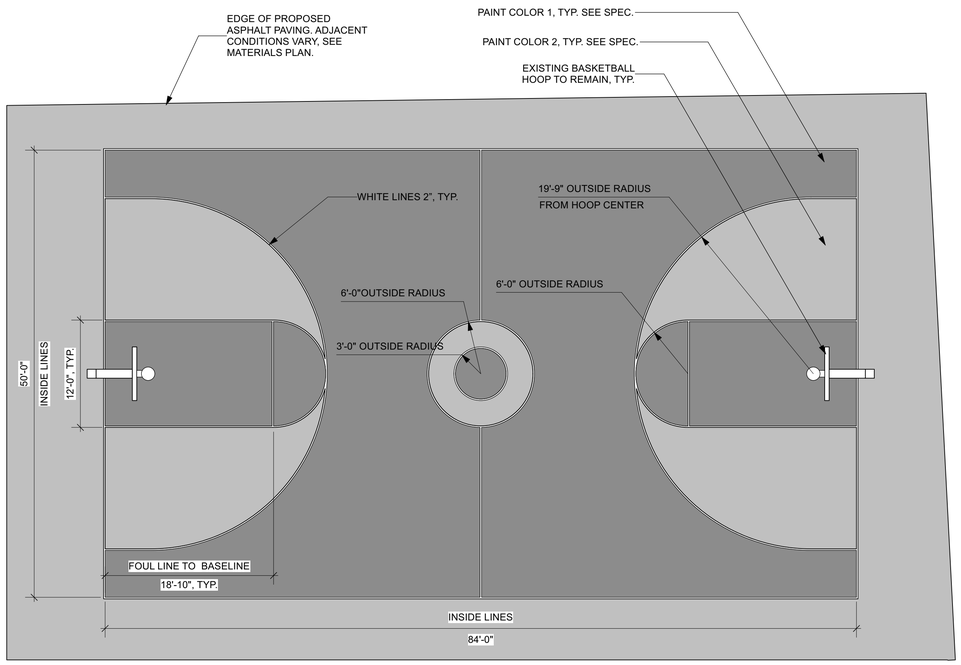
DRAWING TITLE:

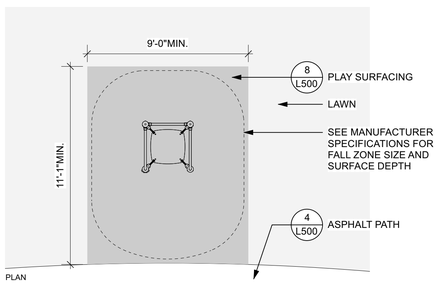
LANDSCAPE DETAILS 3

L502



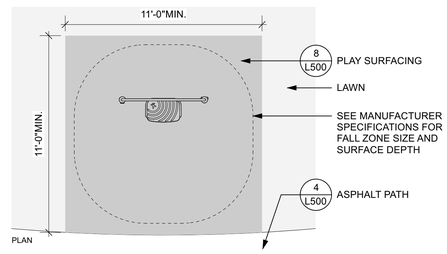
PLAN

1 BASKETBALL COURT
Scale: 1/8" = 1'-0"



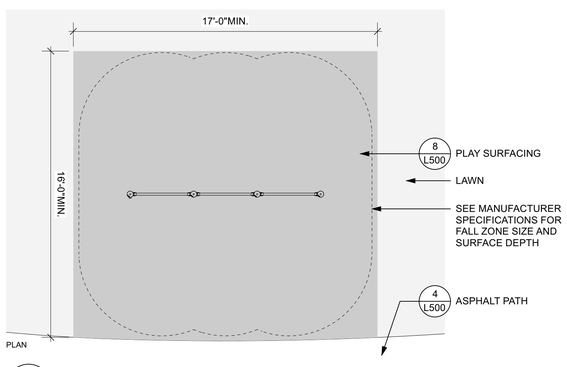
PLAN

2 FITNESS EQ. 1: BALANCE BOARD (S-FE1)
Scale: 1/4" = 1'-0"



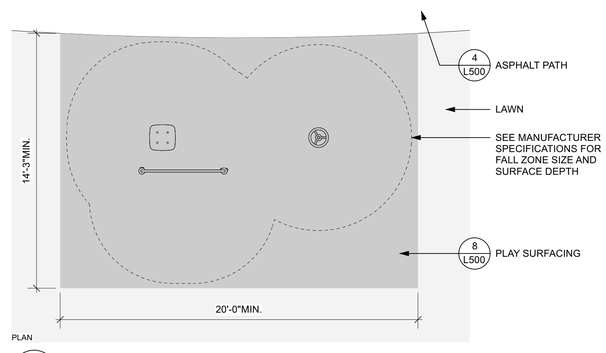
PLAN

3 FITNESS EQ. 2: ASSISTED STEP (S-FE2)
Scale: 1/4" = 1'-0"



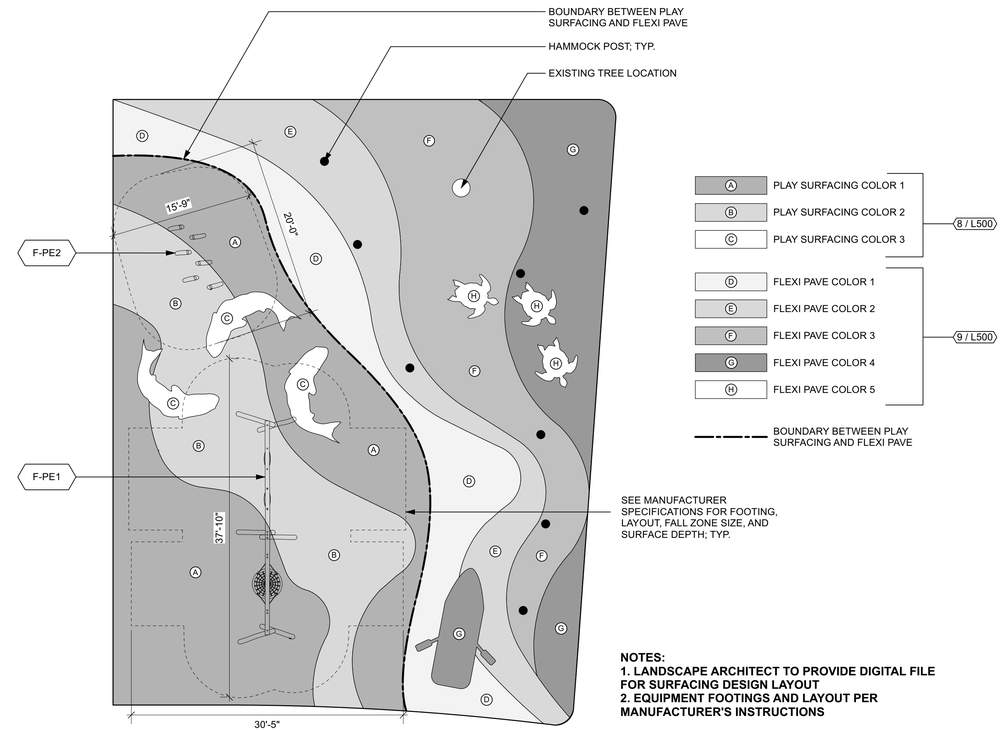
PLAN

4 FITNESS EQ. 3:PUSH UP BARS (S-FE3)
Scale: 1/4" = 1'-0"



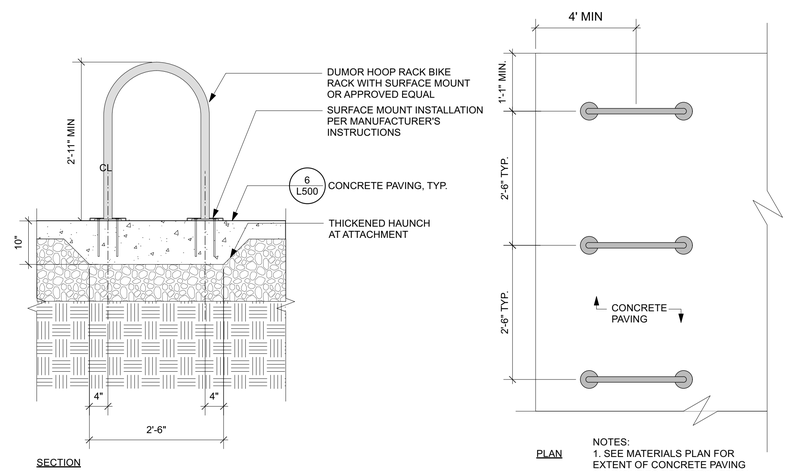
PLAN

5 FITNESS EQ. 4: UP AND GO (S-FE4)
Scale: 1/4" = 1'-0"



NOTES:
1. LANDSCAPE ARCHITECT TO PROVIDE DIGITAL FILE FOR SURFACING DESIGN LAYOUT
2. EQUIPMENT FOOTINGS AND LAYOUT PER MANUFACTURER'S INSTRUCTIONS

6 PLAY EQUIPMENT AREA
Scale: 1/8" = 1'-0"



PLAN

NOTES:
1. SEE MATERIALS PLAN FOR EXTENT OF CONCRETE PAVING
2. LAYOUT TO BE APPROVED BY LANDSCAPE ARCHITECT

7 BIKE RACK (F-BR)
Scale: 3/4" = 1'-0"

PROJECT:

24-12-PLAN PALMER COVE RENOVATION PHASE 2

SALEM, MA 01970

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DRAWING TITLE:

LANDSCAPE DETAILS 4

L503

City of Salem, MA
Sign Program

Sign Type 04B - Destination ID Sign
Elevation, and Specifications

DWG 04B.1

Description

Single sided aluminum sign panel with aluminum bar hanger, extruded aluminum sign bracket and and cast aluminum finial.

Materials

Panel: 2'-6'' W x 3'-3"H x 1/4" thk. aluminum plate

Post: 3" Schedule 40 pipe with cast alum. Finial.

Hanging Bracket: 2"W x 3/4" Thk. Alum. bar and Stainless Steel fasteners, with extruded aluminum bracket.

Footing: As required.

Graphics & Finish

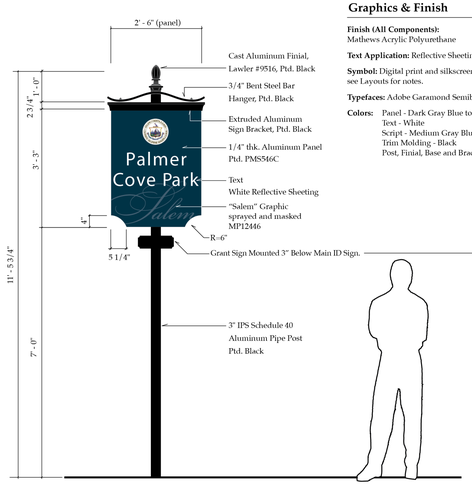
Finish (All Components):
Mathews Acrylic Polyurethane

Text Application: Reflective Sheeting.

Symbol: Digital print and silkscreened on alum. panel, see Layouts for notes.

Typefaces: Adobe Garamond Semibold.

Colors: Panel - Dark Gray Blue to match PMS546C
Text - White
Script - Medium Gray Blue to match MP12446
Trim Molding - Black
Post, Finial, Base and Bracket - Black

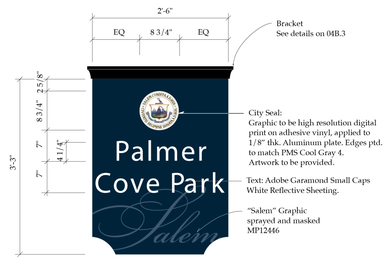


1/2" = 1' - 0"

City of Salem, MA
Sign Program

Sign Type 04B - Destination ID Sign
Panel Layout

DWG 04B.2



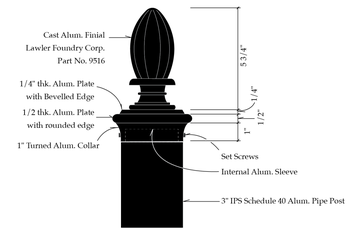
Park Layout
3/4" = 1' - 0"

Grant Sign
6" = 1' - 0"

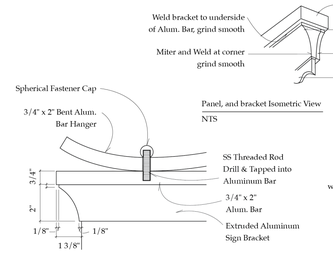
City of Salem, MA
Sign Program

Sign Type 04B - Destination ID Sign
Post, Bracket, and Finial Details

DWG 04B.3

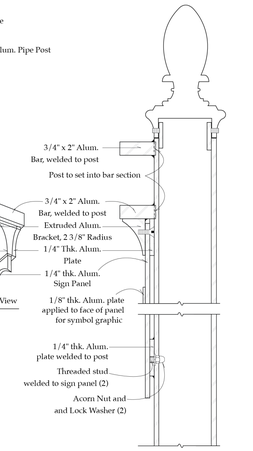


Post Top and Finial Detail
3" = 1' - 0"



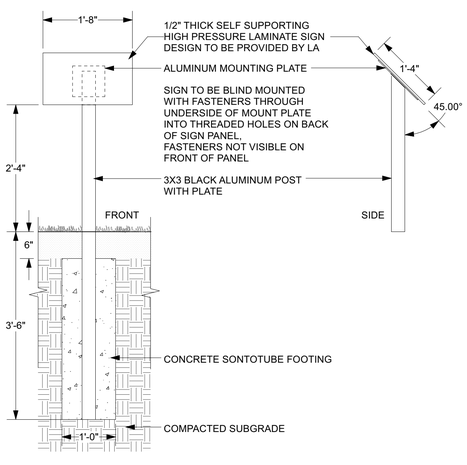
Bar Hanger and Sign Bracket Detail
3" = 1' - 0"

Panel, and bracket Isometric View
NTS



Post, panel, and bracket Section Detil
3" = 1' - 0"

1 PARK ENTRY SIGN (F-ES)
AS NOTED



2 INTERPRETIVE SIGN (F-IS)
Scale: 3/4" = 1'-0"

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24-12-PLAN PALMER COVE RENOVATION PHASE 2

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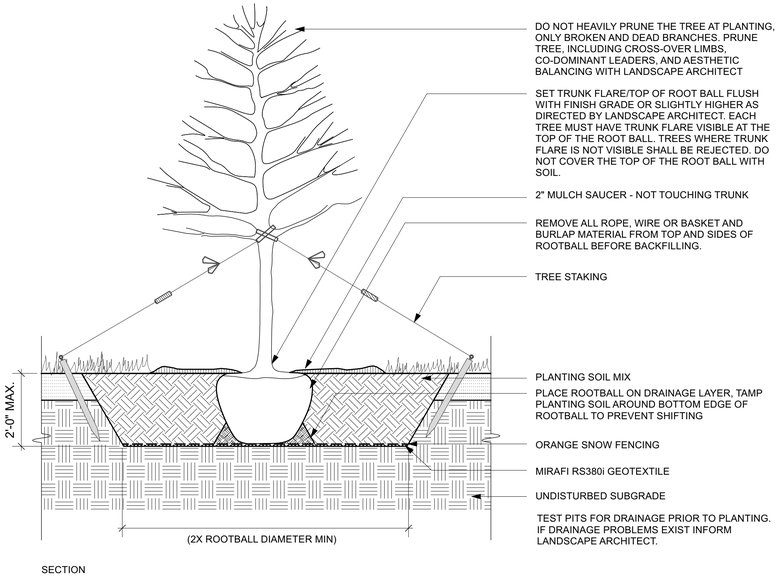
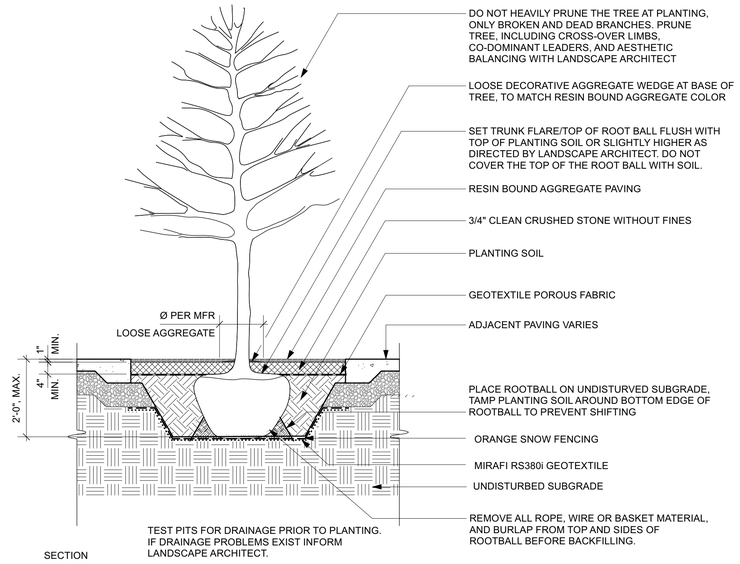
LANDSCAPE DETAILS 5

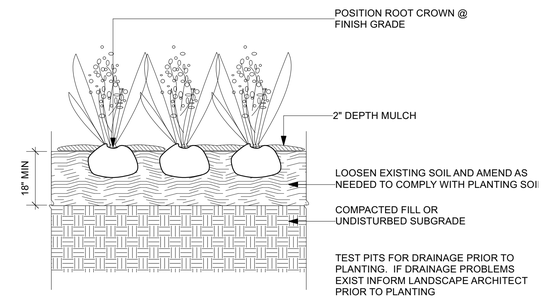
L504



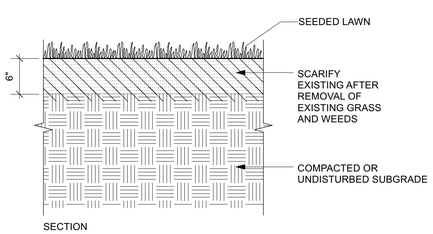
1 TREE PLANTING, TYP
Scale: 1/2" = 1'-0"



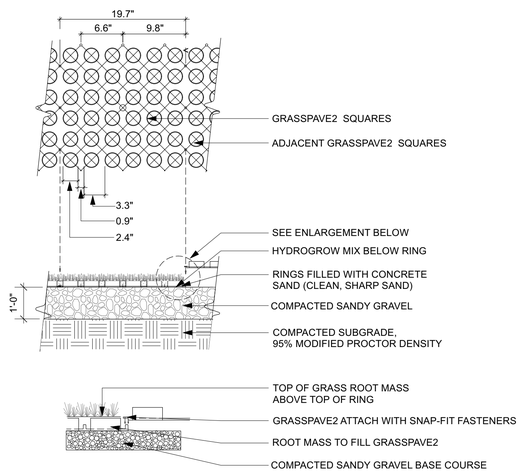
2 TREE PLANTING IN RESIN BOUND AGGREGATE (P-RA)
Scale: 1/2" = 1'-0"



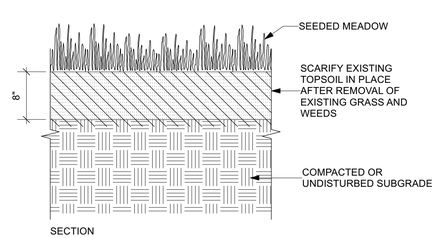
3 PERENNIAL PLANTING
Scale: 1/2" = 1'-0"



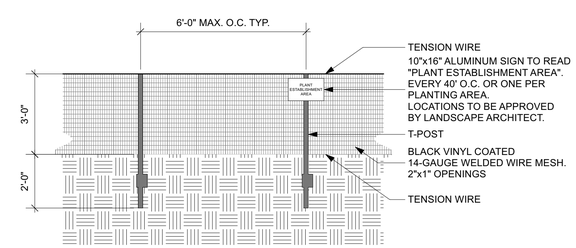
4 SEEDED LAWN (LN)
Scale: 1" = 1'-0"



5 REINFORCED TURF (P-RT)
Scale: 1" = 1'-0"



6 SEEDED COASTAL GRASS MIX (CG)
Scale: 1" = 1'-0"



7 PLANTING AREA PROTECTION FENCE
Scale: 3/8" = 1'-0"

PROJECT:

24-12-PLAN PALMER COVE RENOVATION PHASE 2

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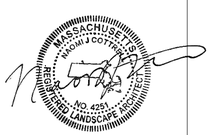

DATE:
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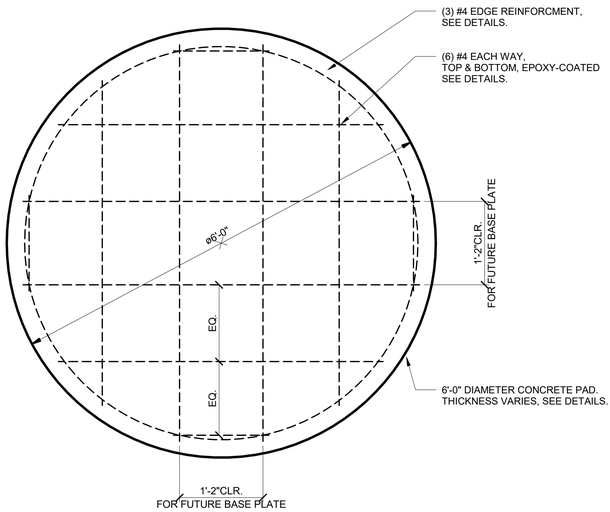
DRAWING TITLE:

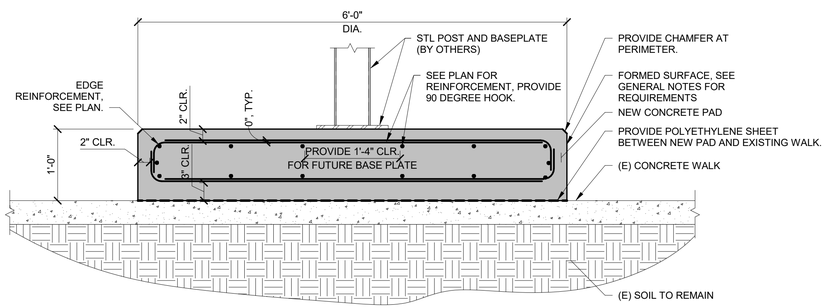
PLANTING DETAILS

L505



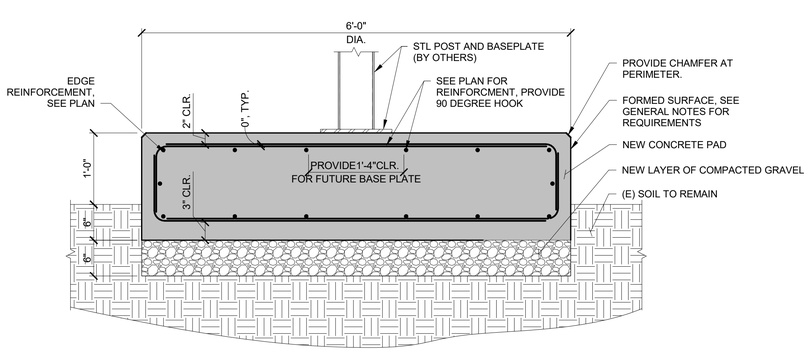
TYPICAL CONCRETE PAD PLAN

1" = 1'-0"



1 CONCRETE PAD AT EXISTING CONCRETE WALK

1" = 1'-0"



2 CONCRETE PAD AT LANDSCAPING

1" = 1'-0"

GENERAL

1. These drawings represent the completed project which has been designed for the weights of materials, for the superimposed loads indicated in the design load criteria. It is the Contractor's responsibility to determine allowable construction loads and to provide proper design and construction of false work, staging, bracing, sequencing, sheeting and shoring, etc.

2. Developing and implementing job site safety and construction procedures are solely the responsibility of the Contractor. These responsibilities include but are not limited to the safety of adjacent structures, property, their workers, and the public, as affected by the construction of this project.

3. Bring any discrepancies between Structural Drawings and Architectural Drawings, if not clarified, to the attention of the Architect/Engineer during construction for clarifications.

4. Do not scale drawings to obtain any missing information or to interpret any information not specifically dimensioned for exact detailing or construction purposes.

5. Repair any deficient work and/or work not in conformance with the contract documents at the contractor's expense. Compensate the client for services arising from deficient work, review of modifications/contractor substitution, or expediting of submittals.

6. See Landscape Drawings for detailed information regarding finishes, locations, etc.

7. In case of conflict between the general notes and details, the most stringent shall govern.

8. The Owner shall provide Special Inspections for all structural work as required by the Massachusetts State Building Code, and in accordance with the Statement of Special Inspections. Provide full and ample means and assistance for testing materials and workmanship and proper facilities for inspection of the work in the shop and in the field.

SPECIFICATIONS

1. The work shown on these drawings addresses structural information only. The structural documents include these S-series Drawings and General Notes. There are no technical specifications in addition to these General Notes.

BUILDING CODE

1. The following building codes and standards, including all specifications referenced within, shall apply to the design, construction, quality control, and safety of all work performed on the project.
   A. "International Building Code – 2018," International Code Council, including Local Jurisdiction Amendments.
   B. "Minimum Design Loads for Buildings and Other Structures," (ANSI/ASCE 7 – 10, 2010), American Society of Civil Engineers.
   C. Additional codes and standards for different materials are listed in the sections that follow.

DESIGN LOADS

1. Superimposed Dead Loads:
   A. Future stationary structures.
2. Wind Load Parameters
   A. Basic Wind Speed (3-Second Gust), V = 117 MPH
   B. Wind Importance Factor, Iw = 1.0
   C. Wind Exposure Category: D
   D. Design Wind Pressure (MWFRS) = 36.1 psf

CONCRETE WORK

1. CODES AND STANDARDS:
   A. "Building Code Requirements for Structural Concrete, ACI 318-14," American Concrete Institute.
   B. "Building Code Requirements for Structural Concrete, ACI 318-11," American Concrete Institute.
   C. "ACI Manual of Concrete Practice – Parts 1 through 5," American Concrete Institute
2. STANDARD SPECIFICATIONS AND REFERENCE STANDARDS:
   A. "Manual of Standard Practice," Concrete Reinforcing Steel Institute.
   B. Follow the latest recommendations and Specifications of the American Concrete Institute:
      1. ACI 301 — Specifications for Structural Concrete
      2. ACI 303.1 — Cast-in-place Architectural Concrete
      3. ACI 347 — Formwork
   C. AWS D1.4:2011 — Reinforcing Steel
3. CONCRETE MIX PROPERTIES:

	28-DAY STRENGTH	W/C MAX(2)	AIR CONTENT(1)
A. ELEMENT (NORMAL WEIGHT UNO)			
1. CONCRETE PAD (EXTERIOR)	4,000 PSI	0.45	6%+/-1.5

      a. Do not trowel finish concrete pads.

B. PORTLAND CEMENT:	ASTM C150, TYPE I, II, OR I/II.
C. FLY ASH:	ASTM C618, TYPE C OR F
1. Limit to 30% maximum replacement of Portland cement	
D. SLAG CEMENT:	ASTM C989, GRADE 100
1. Limit to 50% maximum replacement by weight of Portland cement	
E. For Mixtures Including Both Fly Ash and Slag Cement	
1. Limit replacement by weight of Portland cement to 50% maximum.	
F. NORMAL WEIGHT AGGREGATES:	ASTM C33
G. LIGHTWEIGHT AGGREGATES:	ASTM C330
H. NORMAL WEIGHT CONCRETE DENSITY:	145 PCF
I. AIR-ENTRAINMENT:	ASTM C260

4. STEEL REINFORCEMENT:

A. DEFORMED REINFORCING BARS:	ASTM A615 GRADE 60
B. EPOXY COATED REINF. BARS:	ASTM A775

5. CONCRETE COVER:
   A. Mild Reinforced Concrete
      1. As noted on Details.
6. SPLICING AND PLACEMENT OF REINFORCEMENT:
   A. Reinforcement splices are not permitted except as detailed or authorized by the Structural Engineer. Make bars continuous around corners. When permitted, splices shall be made by contact tension lap splice, unless noted otherwise.
7. ARCHITECTURAL CONCRETE
   A. All exposed and formed surfaces shall comply with the requirements of this section.
   B. Form-Facing Materials:
      1. Steel- and glass-fiber-reinforced plastic, or other approved nonabsorptive panel materials that provide continuous, true, and smooth architectural concrete surfaces. Furnish in largest practicable sizes to minimize number of joints.
   C. Chamfer Strips:
      1. Metal, rigid plastic, elastomeric rubber, or dressed wood, 3/4 by 3/4 inch (19 by 19 mm), minimum; nonstaining; in longest practicable lengths.
   D. Form Joint Tape:
      1. Compressible foam tape; pressure sensitive; AAMA 800; minimum 1/4 inch (6 mm) thick.
   E. Form-Release Agent:
      1. Commercially formulated, colorless form-release agent that will not bond with, stain, or adversely affect architectural concrete surfaces and will not impair subsequent treatments of those surfaces.
   F. Mockups:
      1. Build mockups in the location and of the size as directed by the Architect.
      2. Demonstrate curing, cleaning, and protecting of cast-in-place architectural concrete and finishes.
      3. Obtain Architect's approval of mockups before casting architectural concrete.

CONCRETE WORK (cont.)

8. SUBMITTALS
   A. Reinforcement Shop Drawings: Submit for approval, complete bending and placing details of all reinforcement, including welded wire reinforcement, indicating position of splices. Include accessory drawings.
   B. Formwork Shop Drawings: Submit formwork shop drawings to show formwork construction, including form-facing joints, form joint-sealant details, and other items that visually affect cast-in-place architectural concrete.
   C. Concrete Mix Design: Include the following information for each concrete mix design:
      1. Mix identification designation
      2. Method used to determine the proposed mix design.
      3. Compressive Strength at Seven and Twenty-Eight Days: Submit strength test records, mix design materials, conditions, and proportions for concrete used for record of tests, standard deviation calculation, and determination of required average compressive strength.
      4. Gradation of Fine and Coarse Aggregates: Testing data confirming proposed coarse aggregate meets ASTM C33 class designation. Include ASTM test results for aggregates subject to freeze-thaw environment.
      5. Proportions of all ingredients, including all admixtures to be added either at the time of batching or at the jobsite.
      6. Water-cement ratio.
      7. Slump tested in accordance with ASTM C143.
      8. Air content of freshly mixed concrete by the pressure method, ASTM C231, or the volumetric method, ASTM C173.
      9. Unit Weight of Concrete: ASTM C138.
      10. Mill test reports of portland cement chemical and physical analysis and certification of compliance with ASTM C150 Type I, II, or I/II.
      11. Mill test reports of fly ash chemical and physical analysis and certification of compliance with ASTM C618 Class C or F, if used.
      12. Manufacturer's Spec Data Sheets of each concrete admixture, including brand name, manufacturer, dosage rate range and confirmation that admixtures are compatible.
      13. Certification of aggregate compliance with ASTM C33.
      14. Certification following the procedure presented in ASTM C1778, that the aggregate is nonreactive in the presence of alkalis in accordance with ASTM C1260 or ASTM C1293.
9. INSPECTION AND TESTING:
   A. The Contractor shall engage a qualified testing agency to provide services in accordance with the latest editions of ACI 311.6 and ACI 311.7 and as indicated below and to submit reports.
   B. Cast-in-Place Concrete:
      1. The agency shall inspect the formwork, reinforcing steel, concrete placement, etc. For compliance with the contract documents, applicable codes and standards, and the shop drawings.
      2. Sample and test fresh concrete for each mixture placed each day, once at initial delivery.
      3. Cast, cure, and test composite samples of standard cylinders. One composite sample shall consist of (3) 4"x8" standard cylinders. Number of composite samples at each test shall be as follows:
         a. 1@7 DAYS, 3@28 DAYS

PROJECT:

24-12-PLAN PALMER COVE RENOVATION PHASE 2

SALEM, MA 01970

No.	Date	Revision

CONSULTANTS:

Structural Engineer
Simpson Gumpertz & Heger
617.963.5400

BID SET

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STAMP:

COMMONWEALTH OF MASSACHUSETTS
GREGGREY G. COHEN
STRUCTURAL
No. 27407
REGISTERED PROFESSIONAL ENGINEER

Seal 2023.06.12 10:33:19-04'00'

DATE: AUGUST 2, 2023

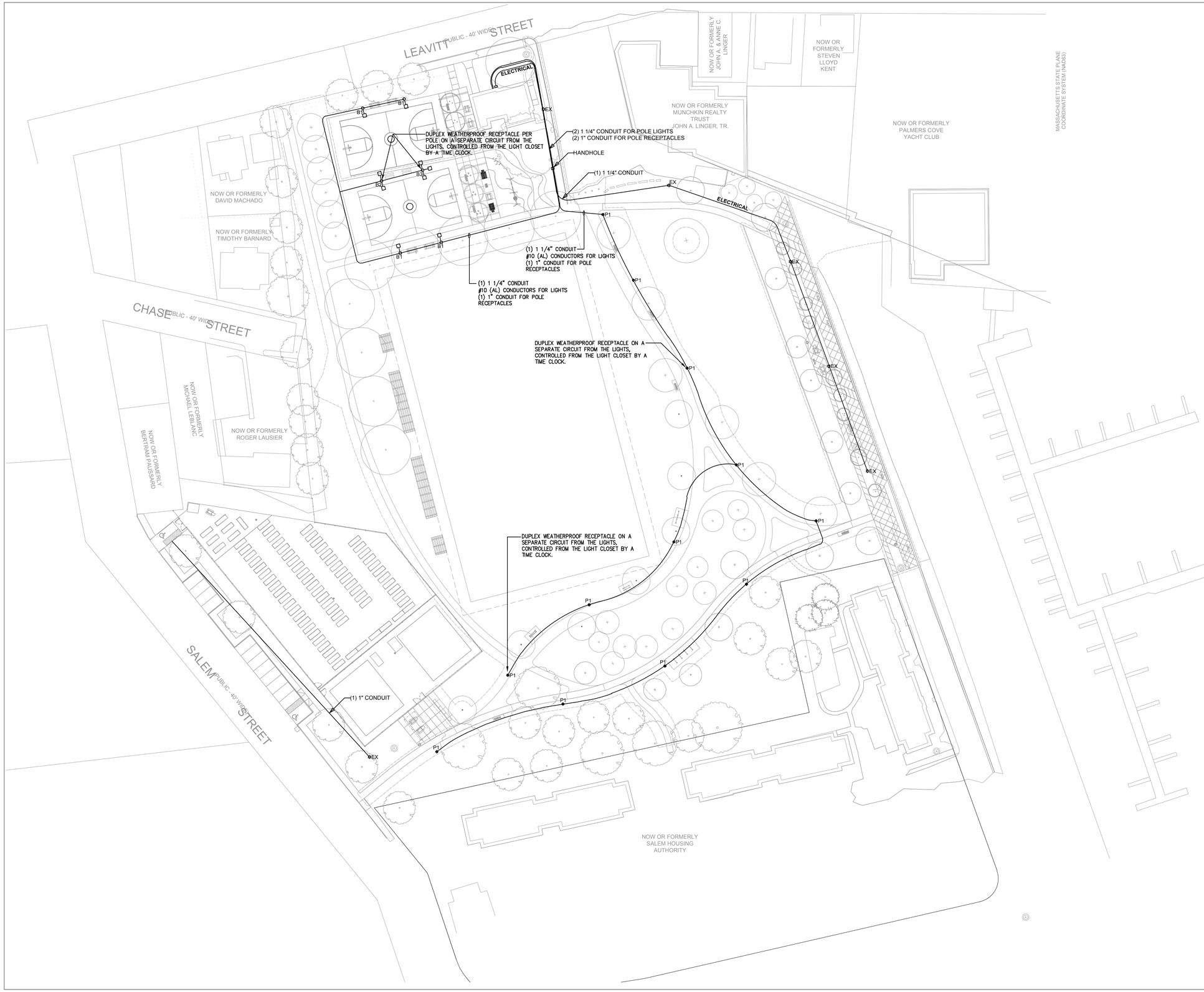
PROJECT NUMBER: 1804

SCALE: NOTED

DRAWING TITLE:

SCULPTURE BASE DETAILS

S100



LIGHTING FIXTURE NOTES:

P1 – PEDESTRIAN POLE
POLE: WOOD UTILITY POLE (8"BUTT TAPERED TO 6"– SEE DETAIL)
ARM: VALMONT – ACSC125026
FIXTURE: LOUIS POULSEN – ICON MINI OPAL LED 3000K ASYT3 US

B1 – BASKETBALL: SINGLE HEAD
POLE: VALMONT – DS210–700E250–P4–FPGV–DT–AB
FIXTURE: CREE –
OSQ–M–B–11L–40K7–4M–VOLTAGE–AA–COLOR–Q9

B2 – BASKETBALL: DOUBLE HEAD
POLE: VALMONT –
DS210–700E250–P4–FPGV–DT–AB–MD102
FIXTURE: CREE – QTY: 2 –
OSQ–M–B–11L–40K7–4M–VOLTAGE–AA–COLOR–Q9

B3 – BASKETBALL: TRIPLE HEAD
POLE: VALMONT – DS210–700E250–P4–FPGV–DT–AB
FIXTURE: CREE – QTY: 3 –
OSQ–M–B–11L–40K7–4M–VOLTAGE–AA–COLOR–Q9

LIGHTING NOTES:

1. PROVIDE WEATHERPROOF JUNCTION BOX MOUNTED ON POLE AT 16" A.F.G. OF PEDESTRIAN POLES.
2. RUN CONDUIT UP POLE TO FIXTURE WITH AN LB FITTING 16' A.F.G. (TYPICAL).
3. PROVIDE TWO ASTRONOMICAL TIMERS WITH PHOTO SENSORS ONE FOR EACH 277 VOLT CIRCUIT. ONE FOR BASKETBALL COURTS, ONE FOR PEDESTRIAN WALK.
4. CONDUIT SHALL BE PVC UNDERGROUND SCHEDULE 80. STRAPS & SCREWS TO BE STAINLESS STEEL, GLUED WITH THE INTENT TO WATERPROOF.
5. PROVIDE BYPASS SWITCH ON BASKETBALL COURTS WITH A TIMER LIMITED TO TWO HOURS OF OPERATION.
6. PROVIDE TOGGLE SWITCH NEXT TO TIMERS TO SERVE AS SERVICE DISCONNECTS.
7. PROVIDE TWO (2) 20 AMPERE, 277 VOLT CIRCUIT BREAKERS IN EXTERIOR 480 VOLT PANEL.
8. PROVIDE FOUR (4) DEDICATED 20 AMPERE, 277 VOLT CIRCUIT BREAKERS IN EXTERIOR 480 VOLT PANEL FOR POLE RECEPTACLES.
9. PROVIDE PVC WATERPROOF BOX & COVER FOR POLE RECEPTACLES.

PROJECT:

21-17-200 PALMER COVE RENOVATION PHASE 2

SALEM, MA 01970

No.	Date	Revision

CONSULTANTS:

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Michael Harris
781.351.1247

Licensed Site Professional
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STAMP:

COMMONWEALTH OF MASSACHUSETTS
BRIAN M. WYLLIE
ELECTRICAL
No. 35873
REGISTERED PROFESSIONAL ENGINEER

DATE:
AUGUST 2, 2023

PROJECT NUMBER: 1804

SCALE: 1" = 40'-0"

DRAWING TITLE:

SITE LIGHTING PLAN

SL1