



TOWN OF WAREHAM

IMPROVEMENTS TO BAYVIEW PARK, HIGHLAND AVENUE SIDEWALK IMPROVEMENTS, AND IMPROVEMENTS TO THE LILLIAN GREGERMAN BANDSHELL BID #1048

TOWN OF WAREHAM, MASSACHUSETTS

DEREK SULLIVAN
TOWN ADMINISTRATOR
54 MARION ROAD
WAREHAM, MA 02571
(508) 291-3100

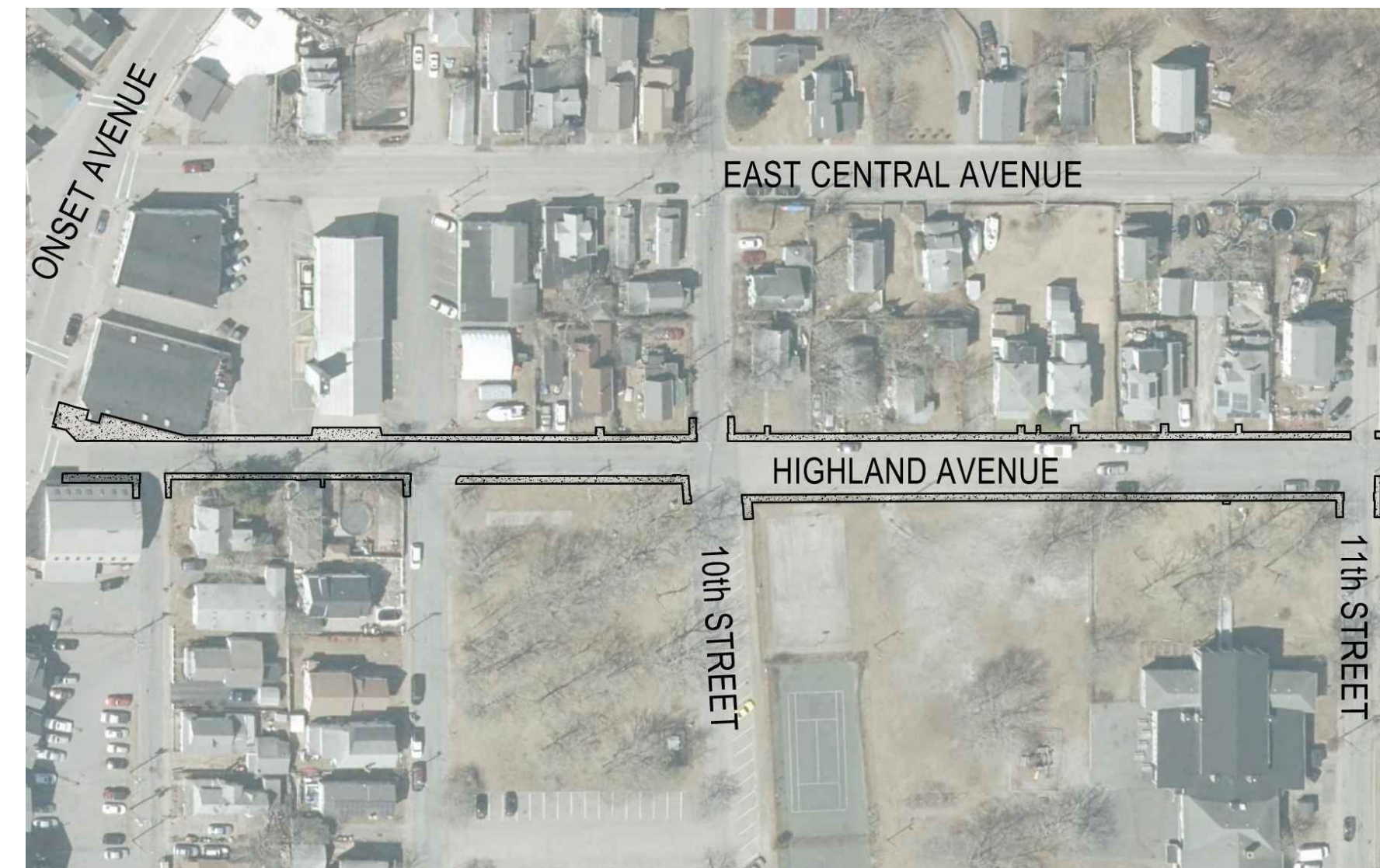
IMPROVEMENTS TO BAYVIEW PARK

PREPARED BY WESTON & SAMPSON



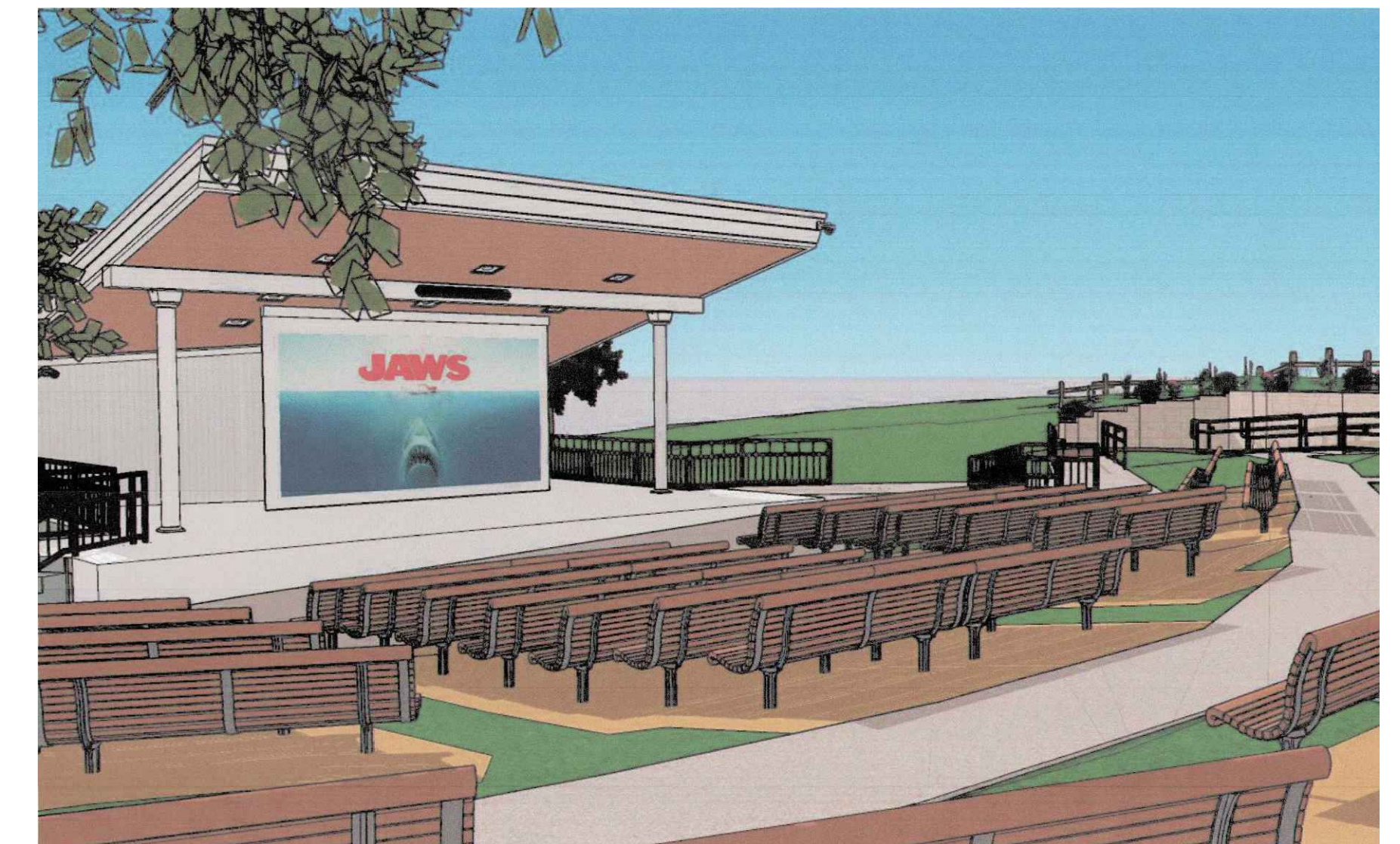
HIGHLAND AVENUE SIDEWALK IMPROVEMENTS BID ALTERNATE #1: HIGHLAND AVENUE IMPROVEMENTS FROM 10TH STREET TO 11TH STREET

PREPARED BY WESTON & SAMPSON

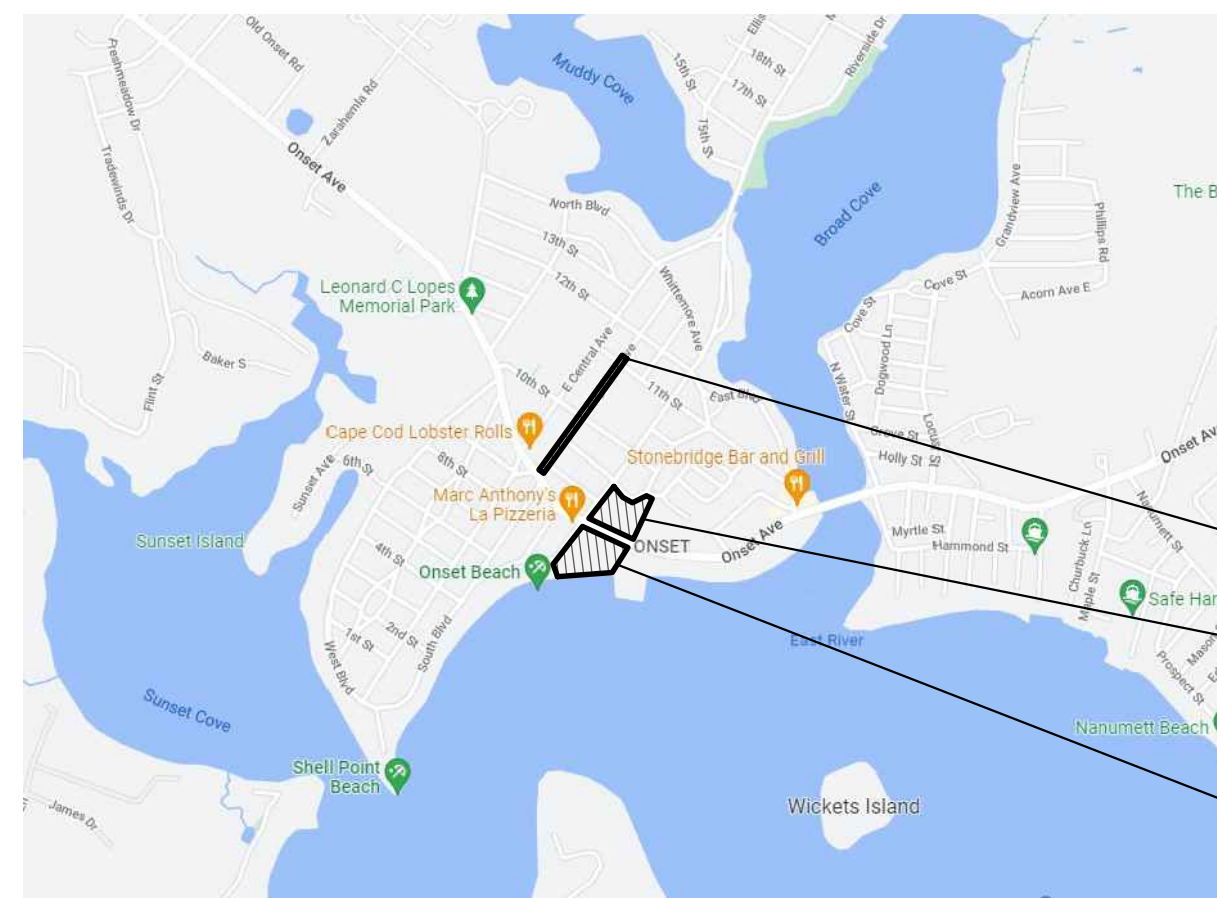


BID ALTERNATE #2: IMPROVEMENTS TO THE LILLIAN GREGERMAN BANDSHELL

PREPARED BY STEPHEN KELLEHER ARCHITECTS, INC., COASTAL ENGINEERING, AND GGD CONSULTING ENGINEERS



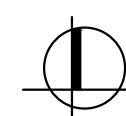
Locus Map



HIGHLAND AVENUE, FROM ONSET AVENUE TO 11TH STREET

LILLIAN GREGERMAN BANDSHELL, 189 ONSET AVENUE

BAYVIEW PARK, 186 ONSET AVENUE



BID ALTERNATE #1: HIGHLAND AVENUE IMPROVEMENTS FROM 10TH STREET TO 11TH STREET:

REPLACING CONCRETE SIDEWALK AND CONCRETE DRIVEWAY APRONS; REPAIRING BITUMINOUS AND GRAVEL DRIVEWAYS; REMOVING EXISTING PAVER SIDEWALKS; RESETTING PAVERS AND GRANITE CURBING; PROTECTING SITE FEATURES; LOAMING AND SEEDING DISTURBED AREAS; AND OTHER ELEMENTS AS REQUIRED BY THE CONTRACT DOCUMENTS. SEE SHEETS ATTACHED TO THESE DOCUMENTS, ENTITLED "HIGHLAND AVENUE SIDEWALK REPLACEMENT, HIGHLAND AVENUE, WAREHAM, MA, 02558."

BID ALTERNATE #2: IMPROVEMENTS TO THE LILLIAN GREGERMAN BANDSHELL:

FURNISHING AND INSTALLING NEW CAST-IN-PLACE CONCRETE WALKWAYS AND LIGHTING BOLLARDS; REMOVING AND REPLACING BENCH SEATING; FURNISHING AND INSTALLING NEW RAMPS AND HANDRAILS; REMOVING, REGRADING, AND REINSTALLING UNIT PAVERS; PROTECTING EXISTING TREES TO REMAIN; AND RESTORING THE LANDSCAPE AND OTHER ELEMENTS AS REQUIRED BY THE CONTRACT DOCUMENTS. "LILLIAN GREGERMAN BANDSHELL, 189 ONSET AVE., EAST WAREHAM, MA 02538".

**BID DOCUMENTS
JANUARY 3, 2024**



WESTON & SAMPSON
85 DEVONSHIRE STREET, 3RD FLOOR
BOSTON, MA 02109
(617) 412-4480



STEPHEN KELLEHER ARCHITECTS
FAIRHAVEN CENTER FOR BUSINESS
57 ALDEN ROAD
FAIRHAVEN, MA 02719
(508) 992-2007



COASTAL ENGINEERING
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GGD CONSULTING ENGINEERS, INC.
375 FAUNCE CORNER ROAD, SUITE D
DARTMOUTH, MA 02747
(508) 998-5700

BID #1048 | WAREHAM, MA | IMPROVEMENTS TO BAYVIEW PARK, HIGHLAND AVENUE SIDEWALK IMPROVEMENTS, AND IMPROVEMENT TO THE LILLIAN GREGERMAN BANDSHELL | BID #1048



TOWN OF WAREHAM

IMPROVEMENTS TO BAYVIEW PARK

186 ONSET AVENUE
WAREHAM, MA, 02558

TOWN OF WAREHAM, MASSACHUSETTS

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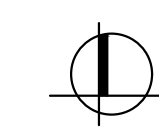
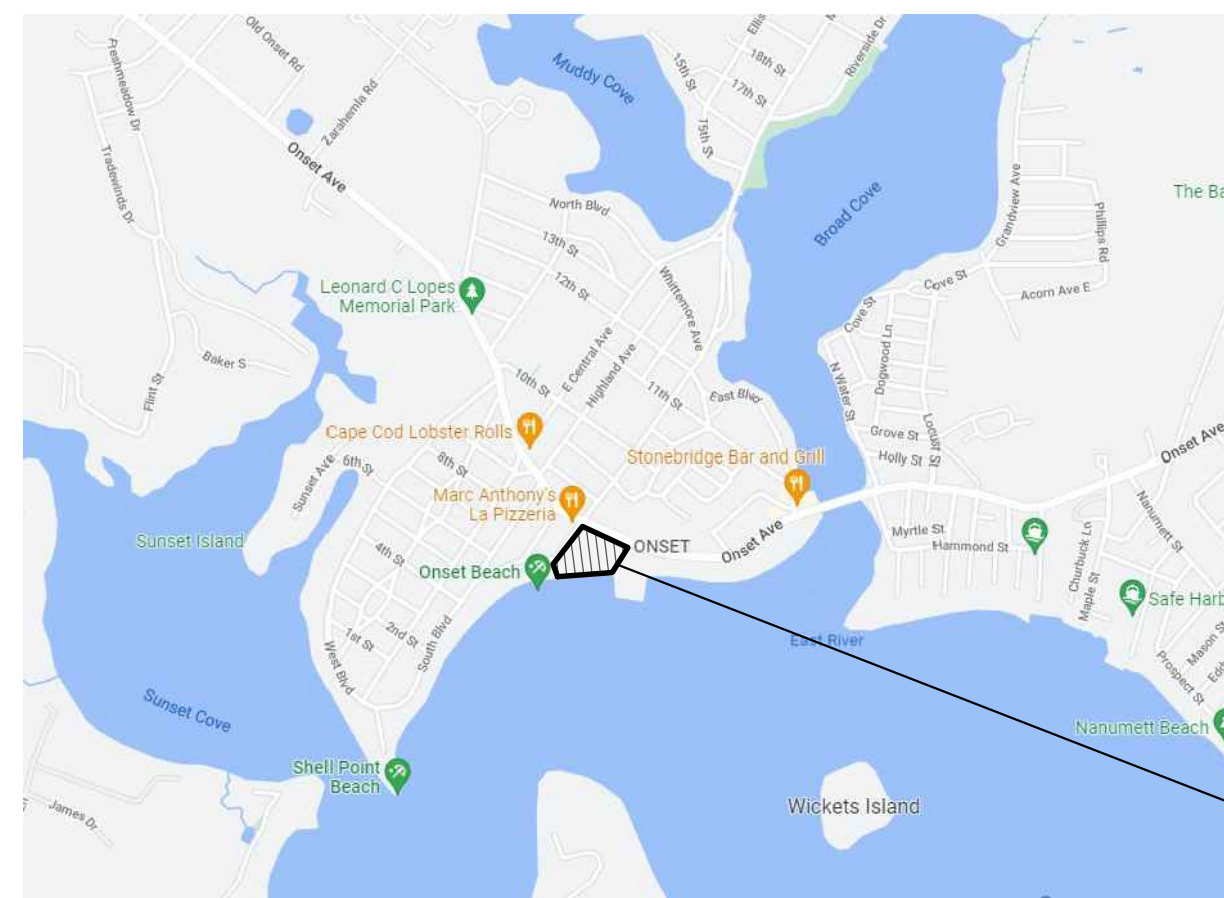


RENDERING FOR ILLUSTRATIVE PURPOSES ONLY

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L110	SITE PREPARATION AND DEMOLITION PLAN
L120	MATERIALS PLAN
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E001	ELECTRICAL LEGEND, ABBREVIATIONS AND GENERAL NOTES
E101	ELECTRICAL SITE PLAN
E501	ELECTRICAL DETAILS
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Locus Map



BAYVIEW PARK
ONSET VILLAGE, WAREHAM, MA

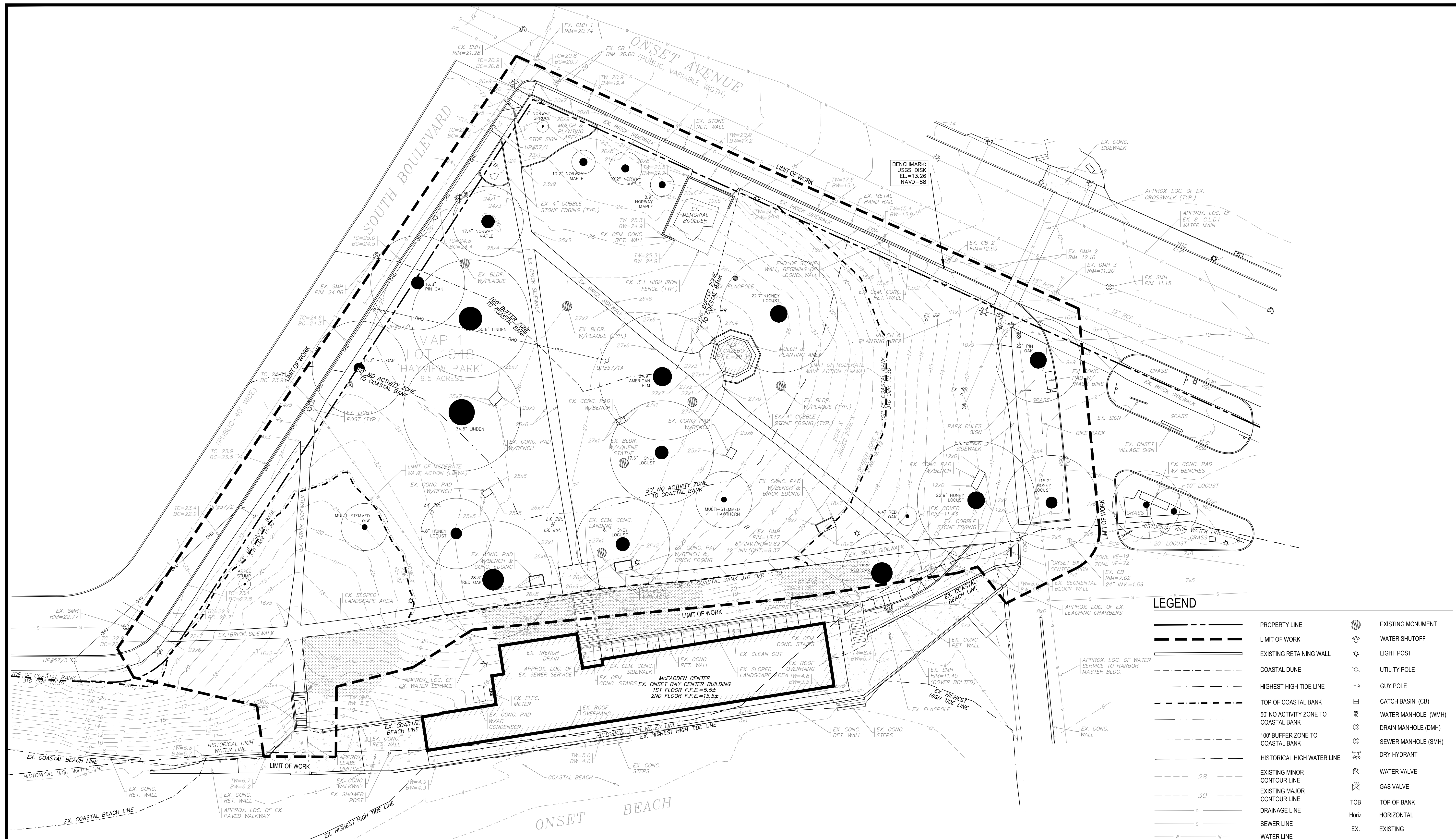
BID DOCUMENTS
NOVEMBER 30, 2023

Prepared By



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(617) 412-4480 (800) Sampson
www.westonandsampson.com
Contact: Cassie Bethoney, RLA





GENERAL NOTES:

- ALL BIDDERS ARE EXPECTED TO INSPECT THE PROJECT SITE IN ITS ENTIRETY PRIOR TO SUBMITTING THEIR BID, AND BECOME FAMILIAR WITH ALL CONDITIONS AS THEY MAY AFFECT THEIR BID. CONTRACTOR AND SUB-CONTRACTOR SHALL BE FAMILIAR WITH ALL DRAWINGS AND SPECIFICATIONS PRIOR TO COMMENCING THE CONSTRUCTION.
- LOCATIONS OF ANY UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF SUCH UTILITIES. PROTECTING ALL EXISTING UTILITIES AND REPAIRING ANY DAMAGE DONE DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ON-SITE COORDINATION WITH UTILITY COMPANIES AND PUBLIC AGENCIES AND FOR OBTAINING ALL REQUIRED PERMITS AND PAYING ALL REQUIRED FEES. IN ACCORDANCE WITH M.G.L. CHAPTER 82, SECTION 40, INCLUDING AMENDMENTS, CONTRACTORS SHALL NOTIFY ALL UTILITY COMPANIES AND GOVERNMENT AGENCIES IN WRITING PRIOR TO EXCAVATION. CONTRACTOR SHALL ALSO CALL "DIG SAFE" AT (888) 344-7233 NO LESS THAN 72 HOURS, (EXCLUSIVE OF WEEKENDS AND HOLIDAYS), PRIOR TO SUCH EXCAVATION. DOCUMENTATION OF REQUESTS SHALL BE PROVIDED TO OWNER'S REPRESENTATIVE PRIOR TO EXCAVATION WORK.
- ANY DISCREPANCIES OR CONFLICTS BETWEEN THE DRAWINGS AND EXISTING CONDITIONS, EXISTING CONDITIONS TO REMAIN, TEMPORARY CONSTRUCTION, PERMANENT CONSTRUCTION AND WORK OF ADJACENT CONTRACTS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE BEFORE PROCEEDING. ITEMS ENCOUNTERED IN AREAS OF EXCAVATION THAT ARE NOT INDICATED ON THE DRAWINGS, BUT ARE VISIBLE ON SURFACE, SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE REMOVED AT NO ADDITIONAL COST TO THE OWNER.
- ANY ALTERATIONS TO THESE DRAWINGS MADE IN THE FIELD DURING CONSTRUCTION SHALL BE RECORDED BY THE GENERAL CONTRACTOR ON "AS-BUILT" DRAWINGS.
- ALL AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS OUTSIDE THE PROJECT LIMITS, SHALL BE RESTORED TO THE ORIGINAL CONDITION BY THE CONTRACTOR AT NO ADDITIONAL COST AND TO THE SATISFACTION OF THE OWNER.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THEIR EMPLOYEES, AS WELL AS PUBLIC USERS FROM INJURY DURING THE ENTIRE CONSTRUCTION PERIOD USING ALL NECESSARY SAFEGUARDS, INCLUDING BUT NOT LIMITED TO, THE ERECTION OF TEMPORARY FENCES, WALKS, STRUCTURES, PROTECTIVE BARRIERS, OR COVERING AS NEEDED.
- THE CONTRACTOR SHALL SUPPLY THE OWNER WITH THE NAME OF THE OSHA "COMPETENT PERSON" PRIOR TO CONSTRUCTION.
- FILLING OF EXCAVATED AREAS SHALL NOT TAKE PLACE WITHOUT THE PRESENCE OR PERMISSION OF THE OWNER'S REPRESENTATIVE.
- EXISTING TREES TO REMAIN SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES. NO STOCKPILING OF MATERIAL, EQUIPMENT OR VEHICULAR TRAFFIC SHALL BE ALLOWED WITHIN THE DRIP LINE OF TREES TO REMAIN. NO GUIDES SHALL BE ATTACHED TO ANY TREE TO REMAIN. WHEN NECESSARY OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE, THE CONTRACTOR SHALL ERECT TEMPORARY BARRIERS FOR THE PROTECTION OF EXISTING TREES DURING CONSTRUCTION.
- NO FILLING SHALL OCCUR AROUND EXISTING TREES TO REMAIN WITHOUT THE APPROVAL OF THE OWNER OR OWNER'S REPRESENTATIVE.
- ALL EXISTING DRAINAGE FACILITIES TO REMAIN SHALL BE MAINTAINED FREE OF DEBRIS, SOIL, SEDIMENT, AND FOREIGN MATERIAL AND OPERATIONAL THROUGHOUT THE LIFE OF THE CONTRACT. REMOVE ALL SOIL, SEDIMENT, DEBRIS AND FOREIGN MATERIAL FROM ALL DRAINAGE STRUCTURES, INCLUDING BUT NOT LIMITED TO, DRAINAGE INLETS, MANHOLES AND CATCH BASINS WITHIN THE LIMIT OF WORK AND DRAINAGE STRUCTURES OUTSIDE THE LIMIT OF WORK THAT ARE IMPACTED BY THE WORK FOR THE ENTIRE DURATION OF CONSTRUCTION.
- CONTRACTOR'S STAGING AREA MUST BE WITHIN THE PROPERTY LIMIT LINE AND IN AREAS APPROVED BY OWNER OR OWNER'S REPRESENTATIVE. ANY OTHER AREAS THAT THE CONTRACTOR MAY WISH TO USE FOR STAGING MUST BE COORDINATED WITH THE OWNER OR OWNER'S REPRESENTATIVE.
- THE STORAGE OF MATERIALS AND EQUIPMENT WILL BE PERMITTED AT LOCATIONS DESIGNATED BY OWNER OR OWNER'S REPRESENTATIVE. PROTECTION OF STORED MATERIALS AND EQUIPMENT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL KEEP ALL STREETS, PARKING LOTS AND WALKS THAT ARE NOT RESTRICTED FROM PUBLIC USE DURING CONSTRUCTION BROOM CLEAN AT ALL TIMES. THE CONTRACTOR SHALL USE ACCEPTABLE METHODS AND MATERIALS TO MAINTAIN ADEQUATE DUST CONTROL THROUGHOUT CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER'S REPRESENTATIVE.

SURVEY NOTES:

- EXISTING CONDITIONS INFORMATION IS BASED ON ACTUAL FIELD SURVEY, PRIVATE UTILITY PLANS, AND OTHER AVAILABLE SOURCES. ACTUAL FIELD SURVEY WAS PERFORMED BY G.A.F. ENGINEERING, INC. ON VARIOUS DATES AND MOST RECENTLY IN MARCH, 2022.
- ALL UTILITIES STRUCTURES, UNDERGROUND UTILITIES AND DRAINAGE STRUCTURES / PIPES SHOWN OR NOT SHOWN WERE COMPILED ACCORDING TO AVAILABLE RECORD PLANS AND IN PART FROM FIELD SURVEY AND ARE APPROXIMATE ONLY. ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD, BEFORE EXCAVATING, INSTALLING, BACKFILLING, GRADING, PAVEMENT RESTORATION OR REPAIRING, ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE CONTACTED INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN. SEE MGL CHAPTER 370, ACTS OF 1963. CONTRACTORS MUST CALL DIG-SAFE AT (1-888-DIG-SAFE OR 811) G.A.F. ENGINEERING, INC. ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN.
- ELEVATIONS ARE IN FEET AND TENTHS AND ARE BASED ON THE DATUM OF NAVD-88.
- ALL TREE SIZES AND SPECIES SHOWN ON THIS PLAN HAVE BEEN TAKEN FROM A PLAN ENTITLED, "BAYVIEW PARK TREE INVENTORY AND PRUNING RECOMMENDATIONS" BY ARBORIST NORMAN HELIE OF THE GROWING TREE, CHERRY VALLEY, MA, THE GROWING TREE, DATED JANUARY 27, 2022.

LEGEND

	PROPERTY LINE		EXISTING MONUMENT
	LIMIT OF WORK		WATER SHUTOFF
	EXISTING RETAINING WALL		LIGHT POST
	COASTAL DUNE		UTILITY POLE
	HIGHEST HIGH TIDE LINE		GUY POLE
	TOP OF COASTAL BANK		CATCH BASIN (CB)
	50' NO ACTIVITY ZONE TO COASTAL BANK		WATER MANHOLE (WMH)
	100' BUFFER ZONE TO COASTAL BANK		DRAIN MANHOLE (DMH)
	HISTORICAL HIGH WATER LINE		SEWER MANHOLE (SMH)
	EXISTING MINOR CONTOUR LINE		DRY HYDRANT
	EXISTING MAJOR CONTOUR LINE		WATER VALVE
	DRAINAGE LINE		GAS VALVE
	SEWER LINE		TOP OF BANK
	WATER LINE		HORIZONTAL
	GAS LINE		EXISTING
	OVERHEAD UTILITY LINE		CONCRETE
	EXISTING CEMENT CONCRETE PAVING		APPROX.
	EXISTING SLOPED LANDSCAPE AREA		LOC.
	EXISTING SLOPE		BLDG.
	EXISTING TREE		EOP
	CANOPY (APPROXIMATE)		VGC
	TREE TRUNK		w/
			TYP.
			C.L.D.I.

SCALE 1"=20'-0"

Project:
IMPROVEMENTS TO
BAYVIEW PARK

186 ONSET AVENUE,
WAREHAM, MA, 02558

Weston & Sampson
Weston & Sampson Engineers, Inc.
85 Devonshire Street, 3rd Floor
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978.532.1900 800.SAMPSON
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Consultants:

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G.A.F. ENGINEERING, INC.
266 Main Street
Wareham, MA, 02571
(508) 295-6600

Revisions:

No.	Date	Description

Seal:

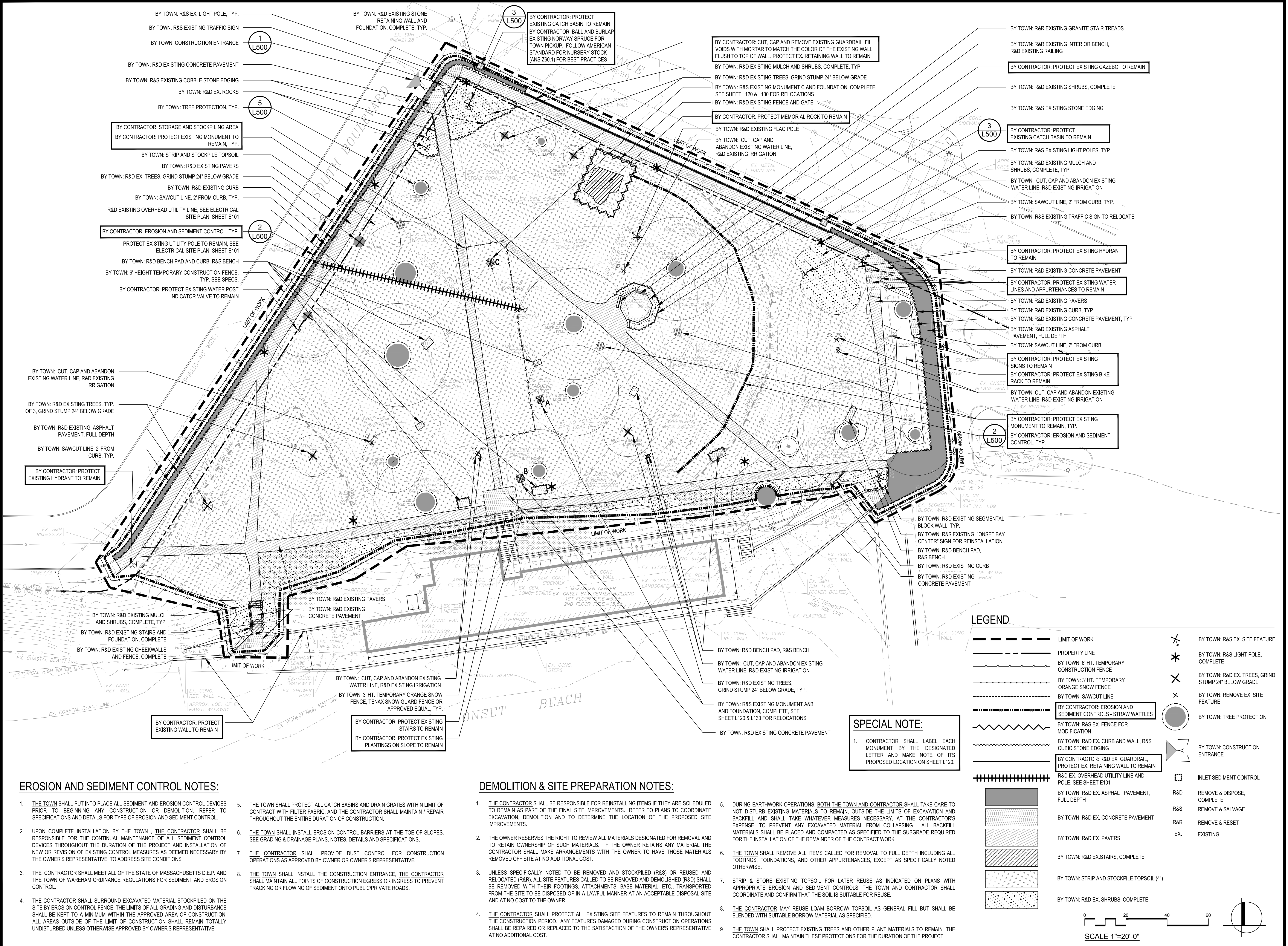
Issued For:
BID DOCUMENTS

Scale: AS NOTED
Date: NOVEMBER 30, 2023
Drawn By: TZ
Reviewed By: CB
Approved By: BK
W&S Project No: ENG21-1048
W&S File No:

Drawing Title:
**EXISTING
CONDITIONS PLAN**

Sheet Number:
L100

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- BY TOWN: R&S EX. LIGHT POLE, TYP.
- BY TOWN: R&S EXISTING TRAFFIC SIGN
- BY TOWN: CONSTRUCTION ENTRANCE
- BY TOWN: R&D EXISTING CONCRETE PAVEMENT
- BY TOWN: R&S EXISTING COBBLE STONE EDGING
- BY TOWN: R&D EX. ROCKS
- BY TOWN: TREE PROTECTION, TYP.

- BY CONTRACTOR: STORAGE AND STOCKPIILING AREA
- BY CONTRACTOR: PROTECT EXISTING MONUMENT TO REMAIN, TYP.
- BY TOWN: STRIP AND STOCKPILE TOPSOIL
- BY TOWN: R&D EXISTING PAVERS
- BY TOWN: R&D EX. TREES, GRIND STUMP 24" BELOW GRADE
- BY TOWN: R&D EXISTING CURB
- BY TOWN: SAWCUT LINE, 2' FROM CURB, TYP.
- R&D EXISTING OVERHEAD UTILITY LINE. SEE ELECTRICAL SITE PLAN, SHEET E101

- BY CONTRACTOR: EROSION AND SEDIMENT CONTROL, TYP.
- PROTECT EXISTING UTILITY POLE TO REMAIN, SEE ELECTRICAL SITE PLAN, SHEET E101
- BY TOWN: R&D BENCH PAD AND CURB, R&S BENCH
- BY TOWN: 6' HEIGHT TEMPORARY CONSTRUCTION FENCE, TYP. SEE SPECS.
- BY CONTRACTOR: PROTECT EXISTING WATER POST INDICATOR VALVE TO REMAIN

- BY TOWN: CUT, CAP AND ABANDON EXISTING WATER LINE, R&D EXISTING IRRIGATION
- BY TOWN: R&D EXISTING TREES, TYP. OF 3, GRIND STUMP 24" BELOW GRADE
- BY TOWN: R&D EXISTING ASPHALT PAVEMENT, FULL DEPTH
- BY TOWN: SAWCUT LINE, 2' FROM CURB, TYP.
- BY CONTRACTOR: PROTECT EXISTING HYDRANT TO REMAIN

- BY TOWN: R&D EXISTING STONE RETAINING WALL AND FOUNDATION, COMPLETE, TYP.

- BY CONTRACTOR: PROTECT EXISTING CATCH BASIN TO REMAIN
- BY CONTRACTOR: BALL AND BURLAP EXISTING NORWAY SPRUCE FOR TOWN PICKUP. FOLLOW AMERICAN STANDARD FOR NURSERY STOCK (ANSIZ60.1) FOR BEST PRACTICES

- BY CONTRACTOR: CUT, CAP AND REMOVE EXISTING GUARDRAIL; FILL VOIDS WITH MORTAR TO MATCH THE COLOR OF THE EXISTING WALL FLUSH TO TOP OF WALL. PROTECT EX. RETAINING WALL TO REMAIN
- BY TOWN: R&D EXISTING MULCH AND SHRUBS, COMPLETE, TYP.
- BY TOWN: R&D EXISTING TREES, GRIND STUMP 24" BELOW GRADE
- BY TOWN: R&S EXISTING MONUMENT C AND FOUNDATION, COMPLETE, SEE SHEET L120 & L130 FOR RELOCATIONS
- BY TOWN: R&D EXISTING FENCE AND GATE

- BY CONTRACTOR: PROTECT MEMORIAL ROCK TO REMAIN
- BY TOWN: R&D EXISTING FLAG POLE
- BY TOWN: CUT, CAP AND ABANDON EXISTING WATER LINE, R&D EXISTING IRRIGATION

- BY TOWN: R&R EXISTING GRANITE STAIR TREADS
- BY TOWN: R&R EXISTING INTERIOR BENCH, R&D EXISTING RAILING
- BY CONTRACTOR: PROTECT EXISTING GAZEBO TO REMAIN
- BY TOWN: R&D EXISTING SHRUBS, COMPLETE
- BY TOWN: R&S EXISTING STONE EDGING

- BY CONTRACTOR: PROTECT EXISTING CATCH BASIN TO REMAIN
- BY TOWN: R&S EXISTING LIGHT POLES, TYP.
- BY TOWN: R&D EXISTING MULCH AND SHRUBS, COMPLETE, TYP.
- BY TOWN: CUT, CAP AND ABANDON EXISTING WATER LINE, R&D EXISTING IRRIGATION
- BY TOWN: SAWCUT LINE, 2' FROM CURB, TYP.
- BY TOWN: R&S EXISTING TRAFFIC SIGN TO RELOCATE
- BY CONTRACTOR: PROTECT EXISTING HYDRANT TO REMAIN
- BY TOWN: R&D EXISTING CONCRETE PAVEMENT
- BY CONTRACTOR: PROTECT EXISTING WATER LINES AND APPURTENANCES TO REMAIN
- BY TOWN: R&D EXISTING PAVERS
- BY TOWN: R&D EXISTING CURB, TYP.
- BY TOWN: R&D EXISTING CONCRETE PAVEMENT, TYP.
- BY TOWN: R&D EXISTING ASPHALT PAVEMENT, FULL DEPTH
- BY TOWN: SAWCUT LINE, 7' FROM CURB
- BY CONTRACTOR: PROTECT EXISTING SIGNS TO REMAIN
- BY CONTRACTOR: PROTECT EXISTING BIKE RACK TO REMAIN
- BY TOWN: CUT, CAP AND ABANDON EXISTING WATER LINE, R&D EXISTING IRRIGATION
- BY CONTRACTOR: PROTECT EXISTING MONUMENT TO REMAIN, TYP.
- BY CONTRACTOR: EROSION AND SEDIMENT CONTROL, TYP.

- BY TOWN: R&D EXISTING MULCH AND SHRUBS, COMPLETE, TYP.
- BY TOWN: R&D EXISTING TREES, GRIND STUMP 24" BELOW GRADE
- BY TOWN: R&S EXISTING MONUMENT C AND FOUNDATION, COMPLETE, SEE SHEET L120 & L130 FOR RELOCATIONS
- BY TOWN: R&D EXISTING FENCE AND GATE
- BY CONTRACTOR: PROTECT MEMORIAL ROCK TO REMAIN
- BY TOWN: R&D EXISTING FLAG POLE
- BY TOWN: CUT, CAP AND ABANDON EXISTING WATER LINE, R&D EXISTING IRRIGATION

- BY TOWN: R&R EXISTING GRANITE STAIR TREADS
- BY TOWN: R&R EXISTING INTERIOR BENCH, R&D EXISTING RAILING
- BY CONTRACTOR: PROTECT EXISTING GAZEBO TO REMAIN
- BY TOWN: R&D EXISTING SHRUBS, COMPLETE
- BY TOWN: R&S EXISTING STONE EDGING
- BY CONTRACTOR: PROTECT EXISTING CATCH BASIN TO REMAIN
- BY TOWN: R&S EXISTING LIGHT POLES, TYP.
- BY TOWN: R&D EXISTING MULCH AND SHRUBS, COMPLETE, TYP.
- BY TOWN: CUT, CAP AND ABANDON EXISTING WATER LINE, R&D EXISTING IRRIGATION
- BY TOWN: SAWCUT LINE, 2' FROM CURB, TYP.
- BY TOWN: R&S EXISTING TRAFFIC SIGN TO RELOCATE

- BY CONTRACTOR: PROTECT EXISTING HYDRANT TO REMAIN
- BY TOWN: R&D EXISTING CONCRETE PAVEMENT
- BY CONTRACTOR: PROTECT EXISTING WATER LINES AND APPURTENANCES TO REMAIN
- BY TOWN: R&D EXISTING PAVERS
- BY TOWN: R&D EXISTING CURB, TYP.
- BY TOWN: R&D EXISTING CONCRETE PAVEMENT, TYP.
- BY TOWN: R&D EXISTING ASPHALT PAVEMENT, FULL DEPTH
- BY TOWN: SAWCUT LINE, 7' FROM CURB
- BY CONTRACTOR: PROTECT EXISTING SIGNS TO REMAIN
- BY CONTRACTOR: PROTECT EXISTING BIKE RACK TO REMAIN
- BY TOWN: CUT, CAP AND ABANDON EXISTING WATER LINE, R&D EXISTING IRRIGATION

- BY CONTRACTOR: PROTECT EXISTING MONUMENT TO REMAIN, TYP.
- BY CONTRACTOR: EROSION AND SEDIMENT CONTROL, TYP.
- BY TOWN: R&D EXISTING SEGMENTAL BLOCK WALL, TYP.
- BY TOWN: R&S EXISTING "ONSET BAY CENTER" SIGN FOR REINSTALLATION
- BY TOWN: R&D BENCH PAD, R&S BENCH
- BY TOWN: R&D EXISTING CURB
- BY TOWN: R&D EXISTING CONCRETE PAVEMENT

- BY TOWN: R&D EXISTING PAVERS
- BY TOWN: R&D EXISTING CONCRETE PAVEMENT
- BY TOWN: R&D EXISTING MULCH AND SHRUBS, COMPLETE, TYP.
- BY TOWN: R&D EXISTING STAIRS AND FOUNDATION, COMPLETE
- BY TOWN: R&D EXISTING CHEEKWALLS AND FENCE, COMPLETE
- BY TOWN: R&D EXISTING MULCH AND SHRUBS, COMPLETE, TYP.
- BY TOWN: R&D EXISTING STAIRS AND FOUNDATION, COMPLETE
- BY TOWN: R&D EXISTING CHEEKWALLS AND FENCE, COMPLETE

- BY TOWN: R&D EXISTING CONCRETE PAVEMENT
- BY TOWN: R&D EXISTING MULCH AND SHRUBS, COMPLETE, TYP.
- BY TOWN: R&D EXISTING TREES, TYP. OF 3, GRIND STUMP 24" BELOW GRADE
- BY TOWN: R&D EXISTING ASPHALT PAVEMENT, FULL DEPTH
- BY TOWN: SAWCUT LINE, 2' FROM CURB, TYP.
- BY CONTRACTOR: PROTECT EXISTING HYDRANT TO REMAIN
- BY TOWN: R&D EXISTING CONCRETE PAVEMENT
- BY TOWN: R&D EXISTING ASPHALT PAVEMENT, FULL DEPTH
- BY TOWN: R&D EX. ASPHALT PAVEMENT, FULL DEPTH
- BY TOWN: R&D EX. CONCRETE PAVEMENT
- BY TOWN: R&D EX. PAVERS
- BY TOWN: R&D EX. STAIRS, COMPLETE
- BY TOWN: STRIP AND STOCKPILE TOPSOIL (4")
- BY TOWN: R&D EX. SHRUBS, COMPLETE

SPECIAL NOTE:
 1. CONTRACTOR SHALL LABEL EACH MONUMENT BY THE DESIGNATED LETTER AND MAKE NOTE OF ITS PROPOSED LOCATION ON SHEET L120.

LEGEND

---	LIMIT OF WORK	* *	BY TOWN: R&S EX. LIGHT POLE, COMPLETE
- - - -	PROPERTY LINE	X	BY TOWN: R&D EX. TREES, GRIND STUMP 24" BELOW GRADE
---	BY TOWN: 6' HT. TEMPORARY CONSTRUCTION FENCE	X	BY TOWN: REMOVE EX. SITE FEATURE
---	BY TOWN: 3' HT. TEMPORARY ORANGE SNOW FENCE	○	BY TOWN: TREE PROTECTION
---	BY TOWN: SAWCUT LINE	▲	BY TOWN: CONSTRUCTION ENTRANCE
---	BY CONTRACTOR: EROSION AND SEDIMENT CONTROLS - STRAW WATTLES	□	INLET SEDIMENT CONTROL
---	BY TOWN: R&S EX. FENCE FOR MODIFICATION		R&D REMOVE & DISPOSE, COMPLETE
---	BY TOWN: R&D EX. CURB AND WALL, R&S CUBIC STONE EDGING		R&S REMOVE & SALVAGE
---	BY CONTRACTOR: R&D EX. GUARDRAIL, PROTECT EX. RETAINING WALL TO REMAIN		R&R REMOVE & RESET
---	R&D EX. OVERHEAD UTILITY LINE AND POLE. SEE SHEET E101		EX. EXISTING
---	BY TOWN: R&D EX. ASPHALT PAVEMENT, FULL DEPTH		
---	BY TOWN: R&D EX. CONCRETE PAVEMENT		
---	BY TOWN: R&D EX. PAVERS		
---	BY TOWN: R&D EX. STAIRS, COMPLETE		
---	BY TOWN: STRIP AND STOCKPILE TOPSOIL (4")		
---	BY TOWN: R&D EX. SHRUBS, COMPLETE		

EROSION AND SEDIMENT CONTROL NOTES:

- THE TOWN SHALL PUT INTO PLACE ALL SEDIMENT AND EROSION CONTROL DEVICES PRIOR TO BEGINNING ANY CONSTRUCTION OR DEMOLITION. REFER TO SPECIFICATIONS AND DETAILS FOR TYPE OF EROSION AND SEDIMENT CONTROL.
- UPON COMPLETE INSTALLATION BY THE TOWN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTINUAL MAINTENANCE OF ALL SEDIMENT CONTROL DEVICES THROUGHOUT THE DURATION OF THE PROJECT AND INSTALLATION OF NEW OR REVISION OF EXISTING CONTROL MEASURES AS DEEMED NECESSARY BY THE OWNER'S REPRESENTATIVE, TO ADDRESS SITE CONDITIONS.
- THE CONTRACTOR SHALL MEET ALL OF THE STATE OF MASSACHUSETTS D.E.P. AND THE TOWN OF WAREHAM ORDINANCE REGULATIONS FOR SEDIMENT AND EROSION CONTROL.
- THE CONTRACTOR SHALL SURROUND EXCAVATED MATERIAL STOCKPILED ON THE SITE BY EROSION CONTROL FENCE. THE LIMITS OF ALL GRADING AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE APPROVED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE OF THE LIMIT OF CONSTRUCTION SHALL REMAIN TOTALLY UNDISTURBED UNLESS OTHERWISE APPROVED BY OWNER'S REPRESENTATIVE.
- THE TOWN SHALL PROTECT ALL CATCH BASINS AND DRAIN GRATES WITHIN LIMIT OF CONTRACT WITH FILTER FABRIC, AND THE CONTRACTOR SHALL MAINTAIN / REPAIR THROUGHOUT THE ENTIRE DURATION OF CONSTRUCTION.
- THE TOWN SHALL INSTALL EROSION CONTROL BARRIERS AT THE TOE OF SLOPES, SEE GRADING & DRAINAGE PLANS, NOTES, DETAILS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL PROVIDE DUST CONTROL FOR CONSTRUCTION OPERATIONS AS APPROVED BY OWNER OR OWNER'S REPRESENTATIVE.
- THE TOWN SHALL INSTALL THE CONSTRUCTION ENTRANCE, THE CONTRACTOR SHALL MAINTAIN ALL POINTS OF CONSTRUCTION EGRESS OR INGRESS TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC/Private ROADS.

DEMOLITION & SITE PREPARATION NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REINSTALLING ITEMS IF THEY ARE SCHEDULED TO REMAIN AS PART OF THE FINAL SITE IMPROVEMENTS. REFER TO PLANS TO COORDINATE EXCAVATION, DEMOLITION AND TO DETERMINE THE LOCATION OF THE PROPOSED SITE IMPROVEMENTS.
- THE OWNER RESERVES THE RIGHT TO REVIEW ALL MATERIALS DESIGNATED FOR REMOVAL AND TO RETAIN OWNERSHIP OF SUCH MATERIALS. IF THE OWNER RETAINS ANY MATERIAL THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE OWNER TO HAVE THOSE MATERIALS REMOVED OFF SITE AT NO ADDITIONAL COST.
- UNLESS SPECIFICALLY NOTED TO BE REMOVED AND STOCKPILED (R&S) OR REUSED AND RELOCATED (R&R), ALL SITE FEATURES CALLED TO BE REMOVED AND DEMOLISHED (R&D) SHALL BE REMOVED WITH THEIR FOOTINGS, ATTACHMENTS, BASE MATERIAL, ETC., TRANSPORTED FROM THE SITE TO BE DISPOSED OF IN A LAWFUL MANNER AT AN ACCEPTABLE DISPOSAL SITE AND AT NO COST TO THE OWNER.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING SITE FEATURES TO REMAIN THROUGHOUT THE CONSTRUCTION PERIOD. ANY FEATURES DAMAGED DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST.
- DURING EARTHWORK OPERATIONS, BOTH THE TOWN AND CONTRACTOR SHALL TAKE CARE TO NOT DISTURB EXISTING MATERIALS TO REMAIN OUTSIDE THE LIMITS OF EXCAVATION AND BACKFILL AND SHALL TAKE WHATEVER MEASURES NECESSARY, AT THE CONTRACTOR'S EXPENSE TO PREVENT ANY EXCAVATED MATERIAL FROM COLLAPSING. ALL BACKFILL MATERIALS SHALL BE PLACED AND COMPACTED AS SPECIFIED TO THE SUBGRADE REQUIRED FOR THE INSTALLATION OF THE REMAINDER OF THE CONTRACT WORK.
- THE TOWN SHALL REMOVE ALL ITEMS CALLED FOR REMOVAL TO FULL DEPTH INCLUDING ALL FOOTINGS, FOUNDATIONS, AND OTHER APPURTENANCES, EXCEPT AS SPECIFICALLY NOTED OTHERWISE.
- STRIP & STORE EXISTING TOPSOIL FOR LATER REUSE AS INDICATED ON PLANS WITH APPROPRIATE EROSION AND SEDIMENT CONTROLS. THE TOWN AND CONTRACTOR SHALL COORDINATE AND CONFIRM THAT THE SOIL IS SUITABLE FOR REUSE.
- THE CONTRACTOR MAY REUSE LOAM BORROW/ TOPSOIL AS GENERAL FILL BUT SHALL BE BLENDED WITH SUITABLE BORROW MATERIAL AS SPECIFIED.
- THE TOWN SHALL PROTECT EXISTING TREES AND OTHER PLANT MATERIALS TO REMAIN. THE CONTRACTOR SHALL MAINTAIN THESE PROTECTIONS FOR THE DURATION OF THE PROJECT.

Project: IMPROVEMENTS TO BAYVIEW PARK

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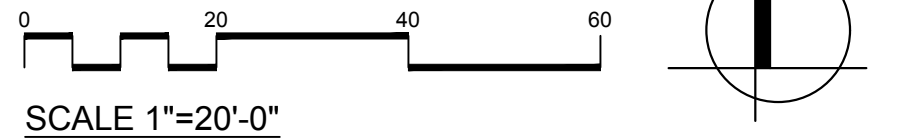
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SITE PREPARATION AND DEMOLITION PLAN

Sheet Number:

L110



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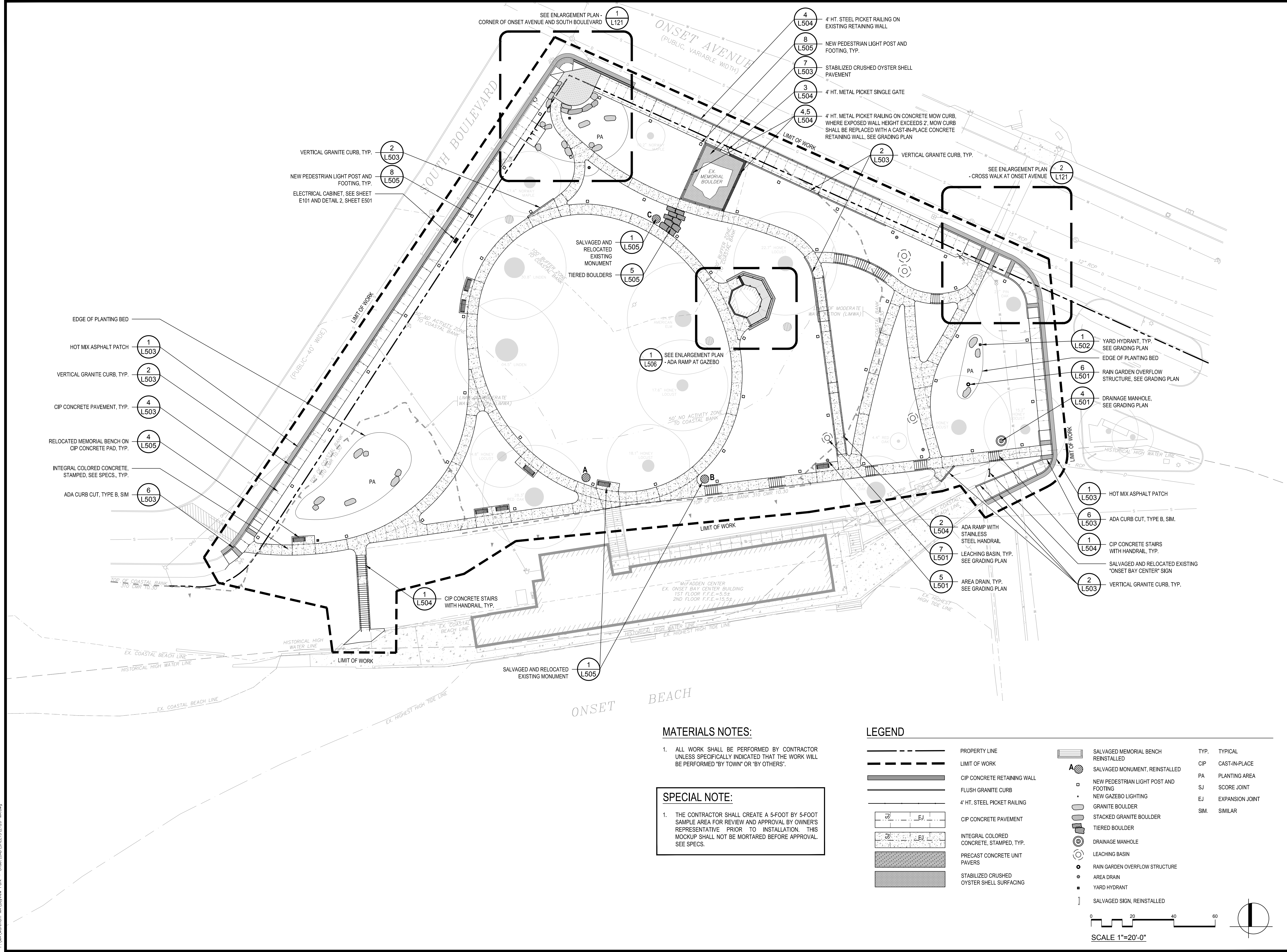
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MATERIALS PLAN

Sheet Number:

L120



MATERIALS NOTES:

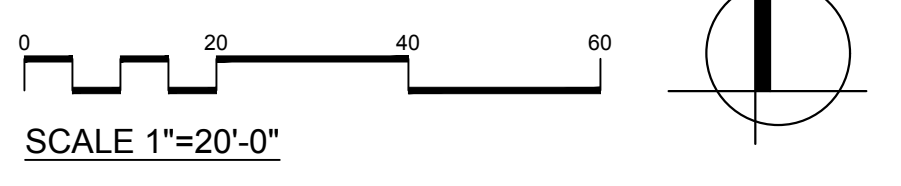
- ALL WORK SHALL BE PERFORMED BY CONTRACTOR UNLESS SPECIFICALLY INDICATED THAT THE WORK WILL BE PERFORMED "BY TOWN" OR "BY OTHERS".

SPECIAL NOTE:

- THE CONTRACTOR SHALL CREATE A 5-FOOT BY 5-FOOT SAMPLE AREA FOR REVIEW AND APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. THIS MOCKUP SHALL NOT BE MORTARED BEFORE APPROVAL. SEE SPECS.

LEGEND

---	PROPERTY LINE	▬	SALVAGED MEMORIAL BENCH REINSTALLED	TYP.	TYPICAL
- - -	LIMIT OF WORK	▬	SALVAGED MONUMENT, REINSTALLED	CIP	CAST-IN-PLACE
▬	CIP CONCRETE RETAINING WALL	▬	NEW PEDESTRIAN LIGHT POST AND FOOTING	PA	PLANTING AREA
▬	FLUSH GRANITE CURB	▬	NEW GAZEBO LIGHTING	SJ	SCORE JOINT
▬	4" HT. STEEL PICKET RAILING	▬	GRANITE BOULDER	EJ	EXPANSION JOINT
▬	CIP CONCRETE PAVEMENT	▬	STACKED GRANITE BOULDER	SIM	SIMILAR
▬	INTEGRAL COLORED CONCRETE, STAMPED, TYP.	▬	TIERED BOULDER		
▬	PRECAST CONCRETE UNIT PAVERS	▬	DRAINAGE MANHOLE		
▬	STABILIZED CRUSHED OYSTER SHELL SURFACING	▬	LEACHING BASIN		
		▬	RAIN GARDEN OVERFLOW STRUCTURE		
		▬	AREA DRAIN		
		▬	YARD HYDRANT		
		▬	SALVAGED SIGN, REINSTALLED		



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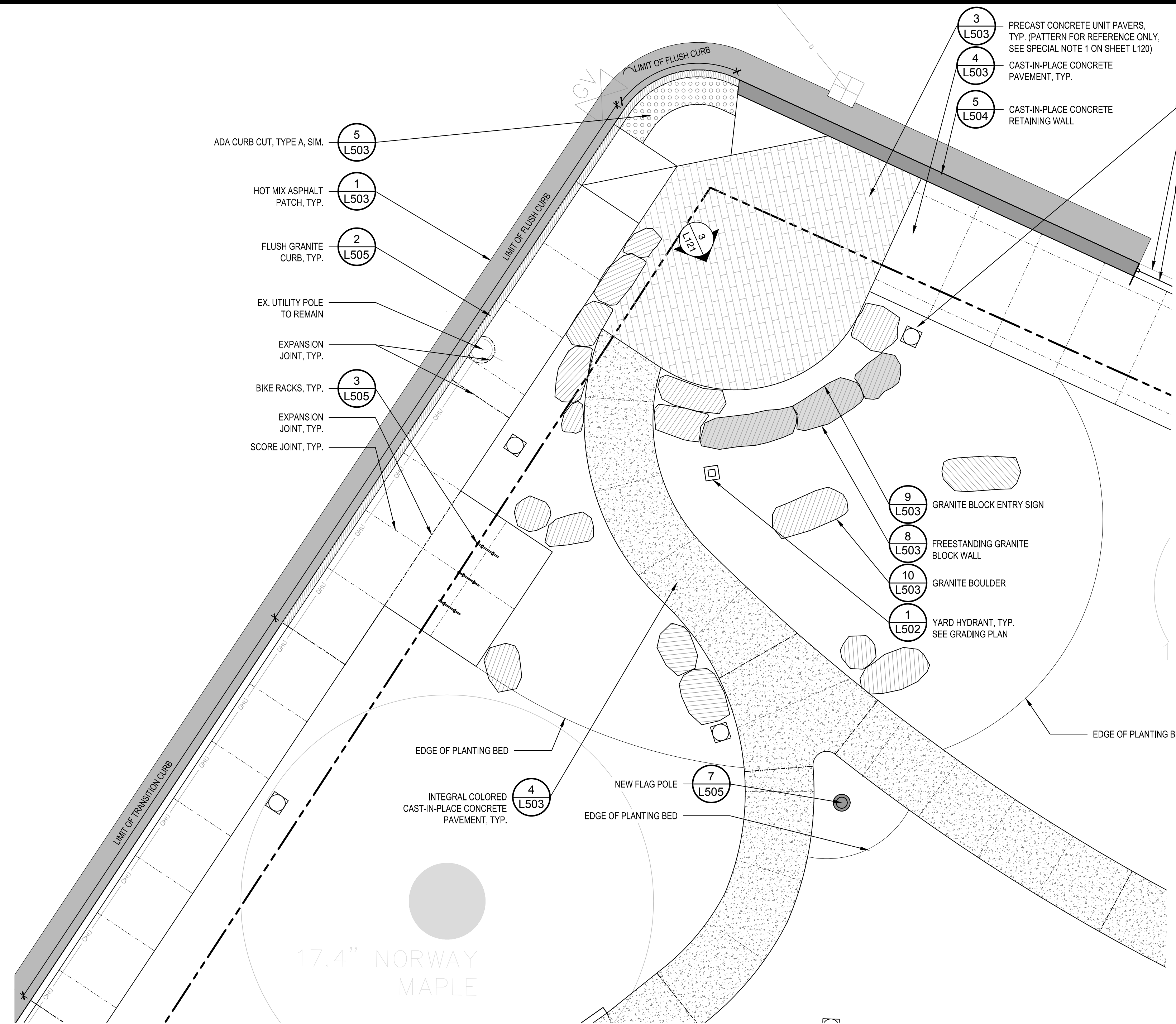
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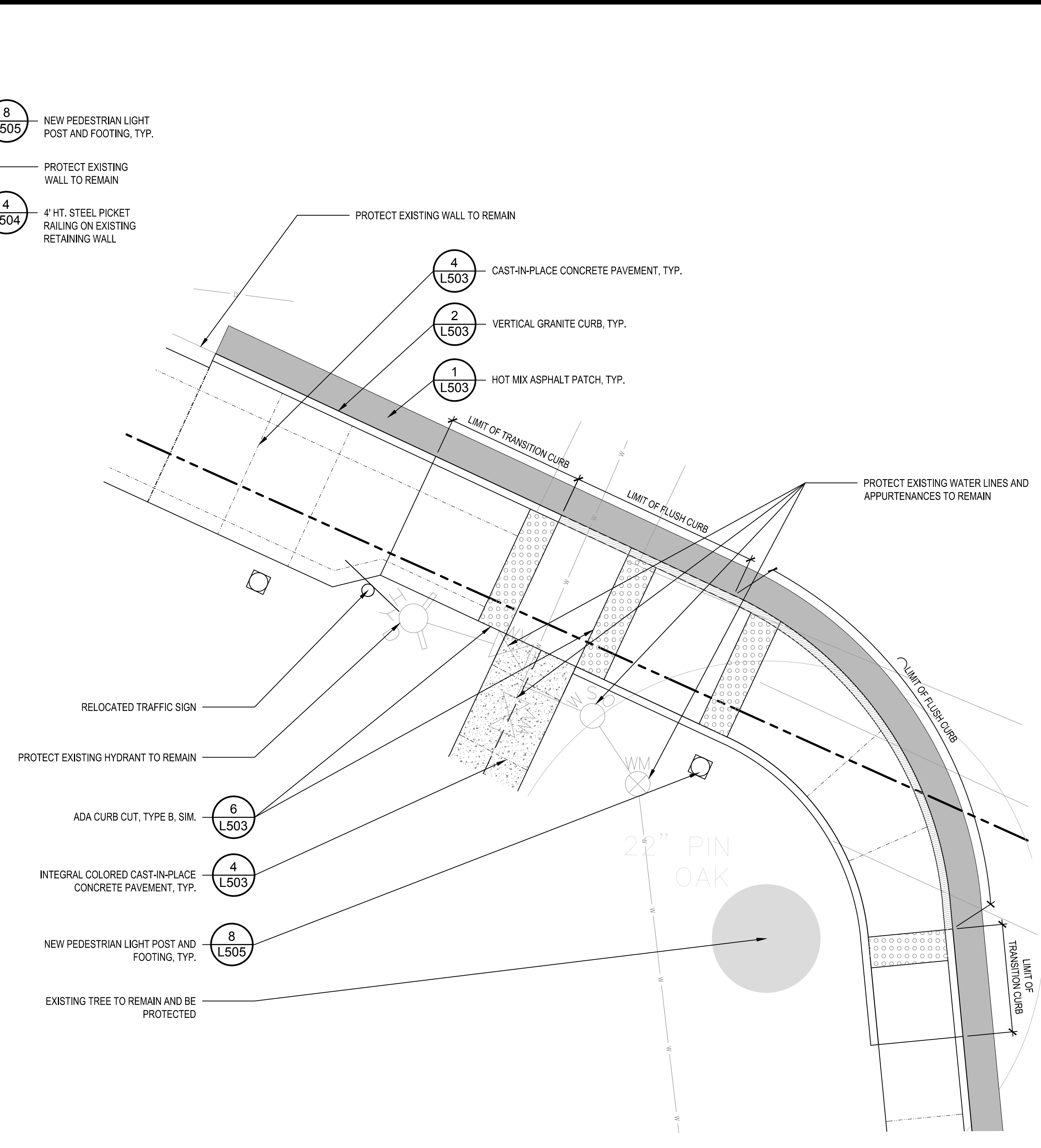
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**MATERIALS
ENLARGEMENT PLAN**

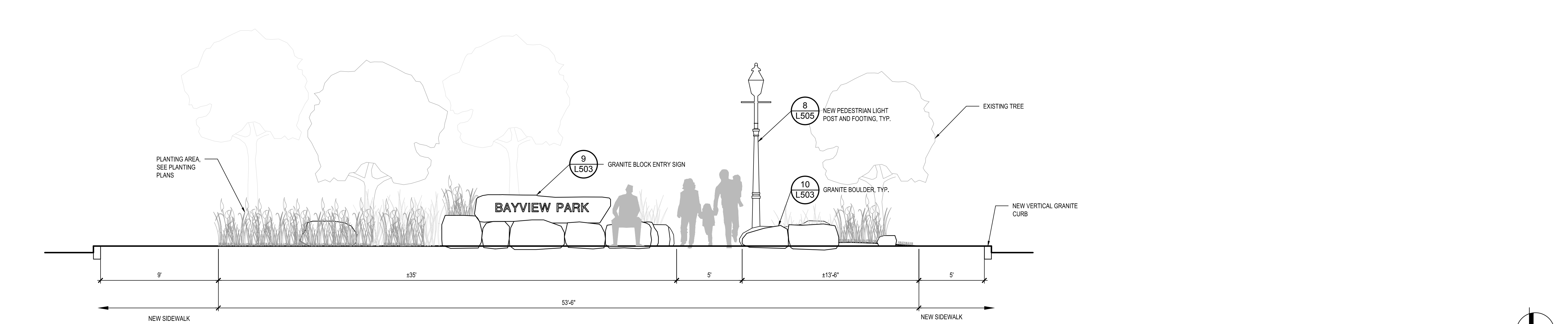
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L121



1 ENLARGEMENT PLAN - CORNER OF ONSET AVENUE AND SOUTH BOULEVARD
SCALE: 1" = 5'-0"



2 ENLARGEMENT PLAN - CROSS WALK AT ONSET AVENUE
SCALE: 1" = 5'-0"



3 ELEVATION OF ENTRYWAY - FOR DESIGN INTENT ONLY
NOT TO SCALE

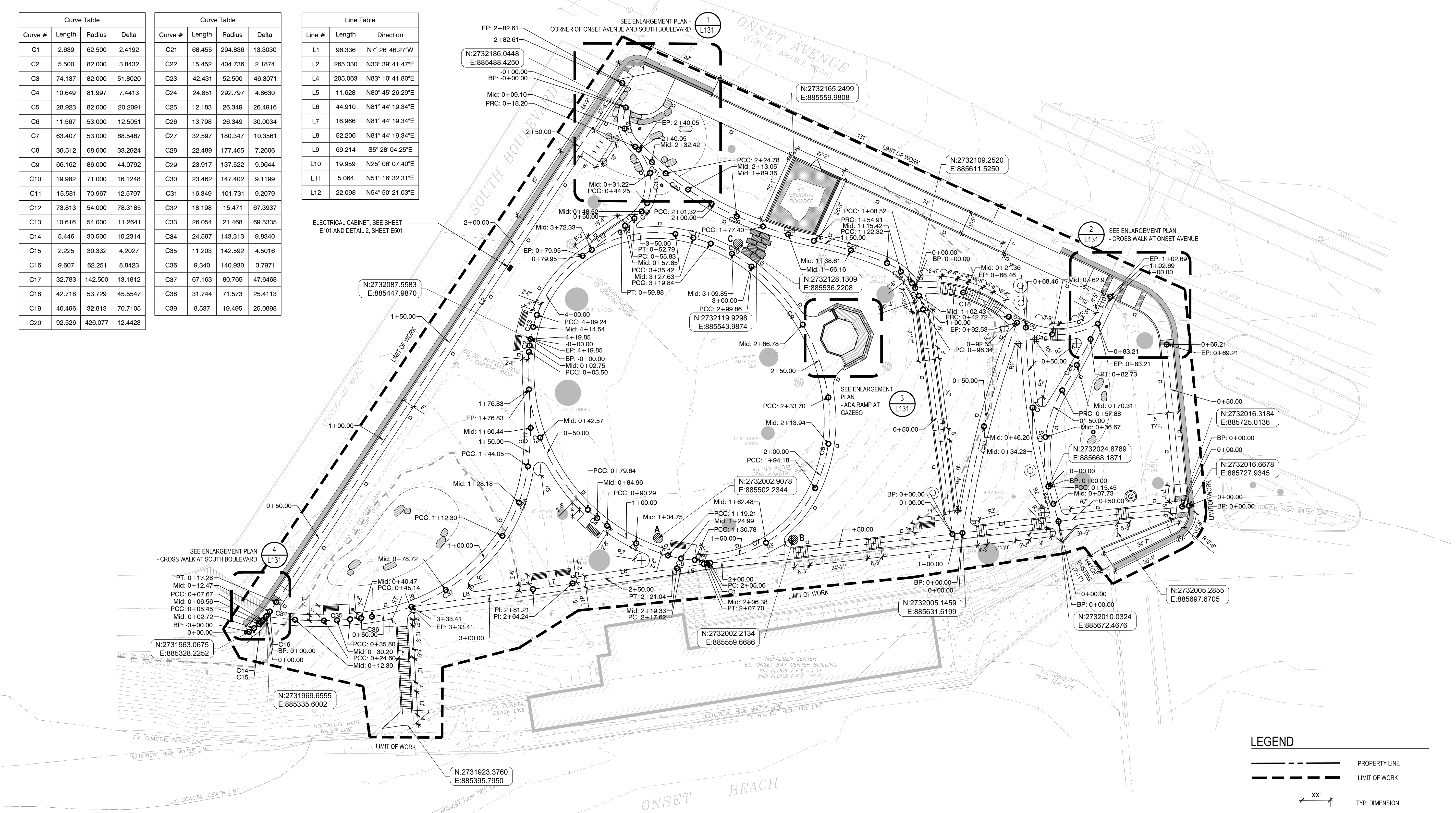
SCALE 1"=5'-0"

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Curve #	Length	Radius	Delta
C1	2.639	62.500	2.4192
C2	5.500	82.000	3.8432
C3	74.137	82.000	51.8020
C4	10.649	81.997	7.4413
C5	28.923	82.000	20.2091
C6	11.567	53.000	12.5051
C7	63.407	53.000	68.5467
C8	39.512	68.000	33.2924
C9	66.162	86.000	44.0792
C10	19.982	71.000	16.1248
C11	15.581	70.967	12.5797
C12	73.813	54.000	78.3185
C13	10.616	54.000	11.2641
C14	5.446	30.500	10.2314
C15	2.225	30.332	4.2027
C16	9.607	62.251	8.8423
C17	32.783	142.500	13.1812
C18	42.718	53.729	45.5547
C19	40.496	32.813	70.7105
C20	92.526	426.077	12.4423

Curve #	Length	Radius	Delta
C21	68.455	294.836	13.3030
C22	15.452	404.736	2.1874
C23	42.431	52.500	46.3071
C24	24.851	292.797	4.8630
C25	12.183	26.349	26.4916
C26	13.798	26.349	30.0034
C27	32.597	180.347	10.3561
C28	22.489	177.465	7.2606
C29	23.917	137.522	9.9644
C30	23.462	147.402	9.1199
C31	16.349	101.731	9.2079
C32	18.198	15.471	67.3937
C33	26.054	21.468	69.5335
C34	24.597	143.313	9.8340
C35	11.203	142.592	4.5016
C36	9.340	140.930	3.7971
C37	67.163	80.765	47.6468
C38	31.744	71.573	25.4113
C39	8.537	19.495	25.0898

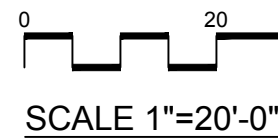
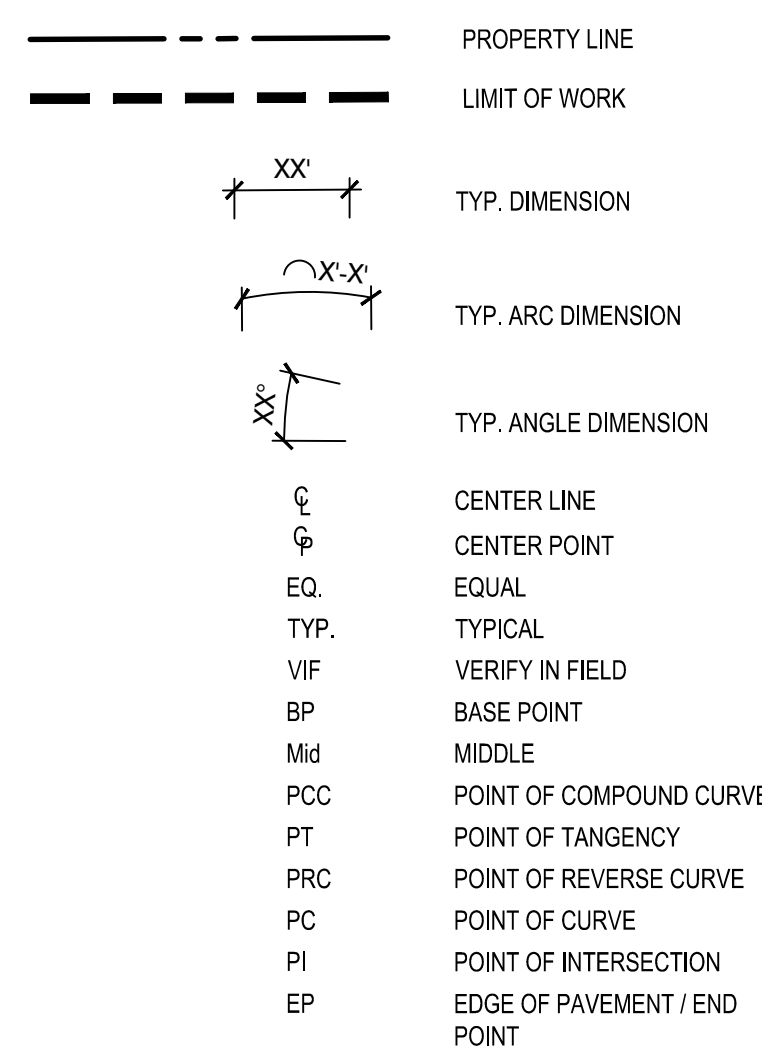
Line #	Length	Direction
L1	96.336	N7° 26' 46.27"W
L2	265.330	N33° 39' 41.47"E
L4	205.063	N83° 10' 41.80"E
L5	11.628	N80° 45' 26.29"E
L6	44.910	N81° 44' 19.34"E
L7	16.966	N81° 44' 19.34"E
L8	52.206	N81° 44' 19.34"E
L9	69.214	S5° 28' 04.25"E
L10	19.959	N25° 06' 07.40"E
L11	5.064	N51° 16' 32.31"E
L12	22.098	N54° 50' 21.03"E




LAYOUT NOTES

- REFER TO EXISTING CONDITIONS PLAN FOR BASE PLAN NOTES.
- REFER TO PLANTING PLAN FOR PLANTING TYPES AND LOCATIONS.
- COORDINATE ALL LAYOUT ACTIVITIES WITH THE SCOPE OF WORK CALLED FOR BY DEMOLITION, GRADING AND UTILITIES OPERATIONS ENCOMPASSED BY THIS CONTRACT. SET, PROTECT AND REPLACE REFERENCE STAKES AS NECESSARY OR AS REQUIRED.
- ALL WORK SHALL BE PERFORMED BY CONTRACTOR UNLESS SPECIFICALLY INDICATED THAT THE WORK WILL BE PERFORMED 'BY TOWN' OR 'BY OTHERS'.
- ALL LAYOUT LINES, OFFSETS, OR REFERENCES TO LOCATING OBJECTS ARE EITHER PARALLEL OR PERPENDICULAR UNLESS OTHERWISE DESIGNATED WITH ANGLE OFFSETS NOTED.
- ALL PROPOSED SITE FEATURES SHALL BE LAID OUT AND STAKED FOR REVIEW AND APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF INSTALLATION. ANY ADJUSTMENTS TO THE LAYOUT SHALL BE UNDERTAKEN AS REQUIRED, AT NO ADDITIONAL COST TO THE OWNER.
- ALL PATHWAY WIDTHS SHALL BE AS NOTED ON THE LAYOUT PLAN.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THE GROUND AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD MEASUREMENT OF ALL PROPOSED GUARDRAILS.

LEGEND



Project:
IMPROVEMENTS TO BAYVIEW PARK

 186 ONSET AVENUE,
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Revisions:

No.	Date	Description

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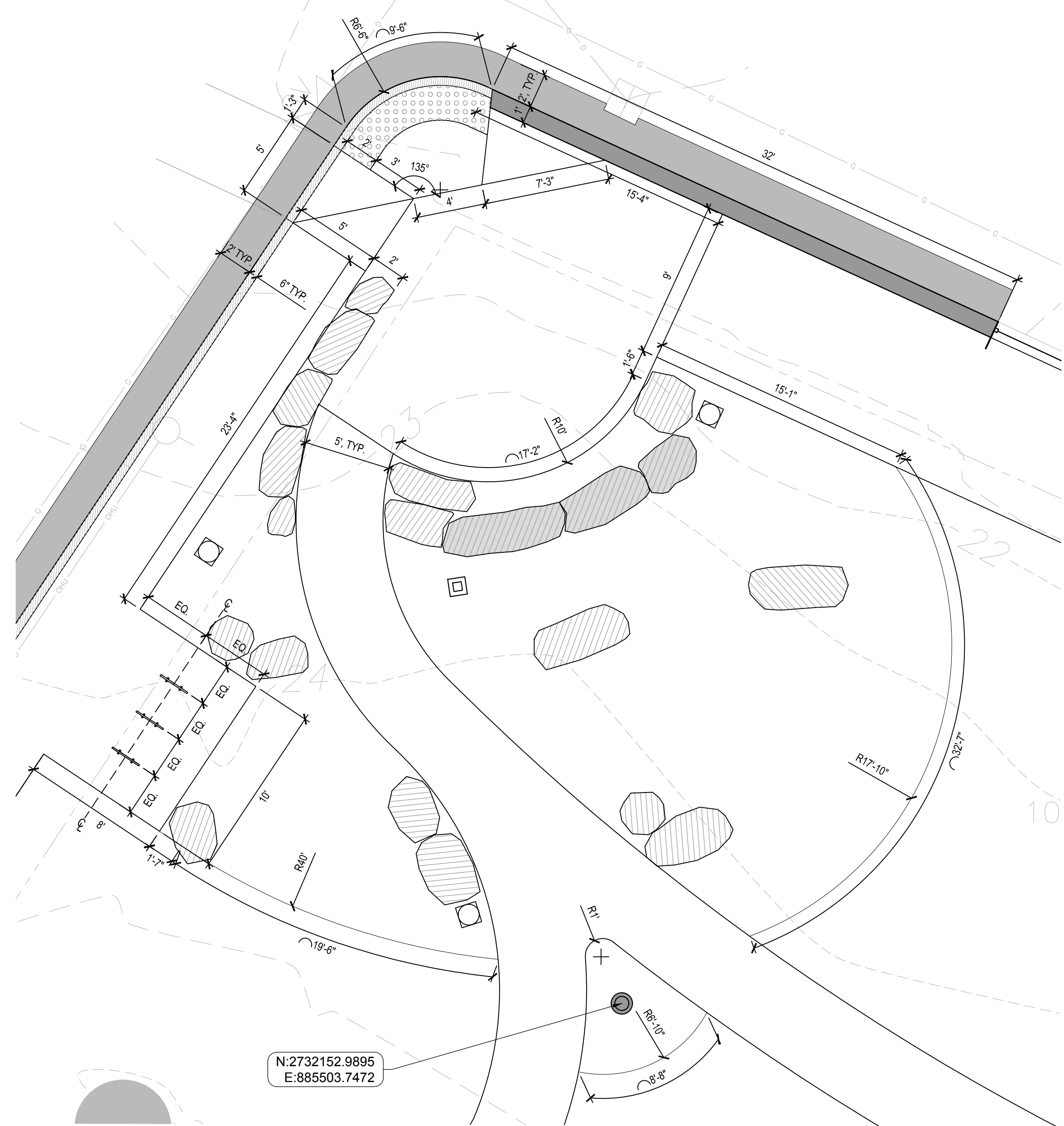
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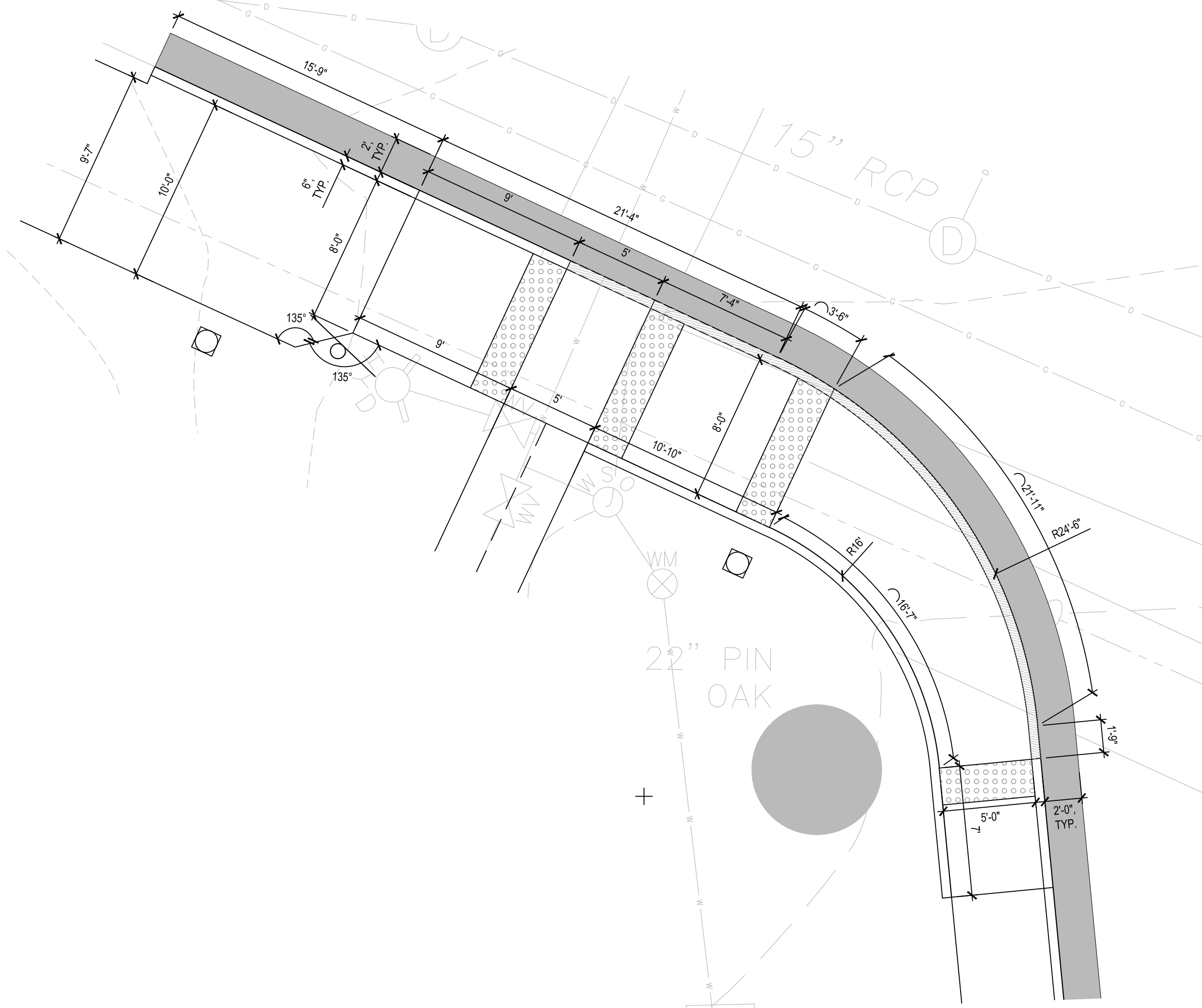
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LAYOUT PLAN

Sheet Number:
L130

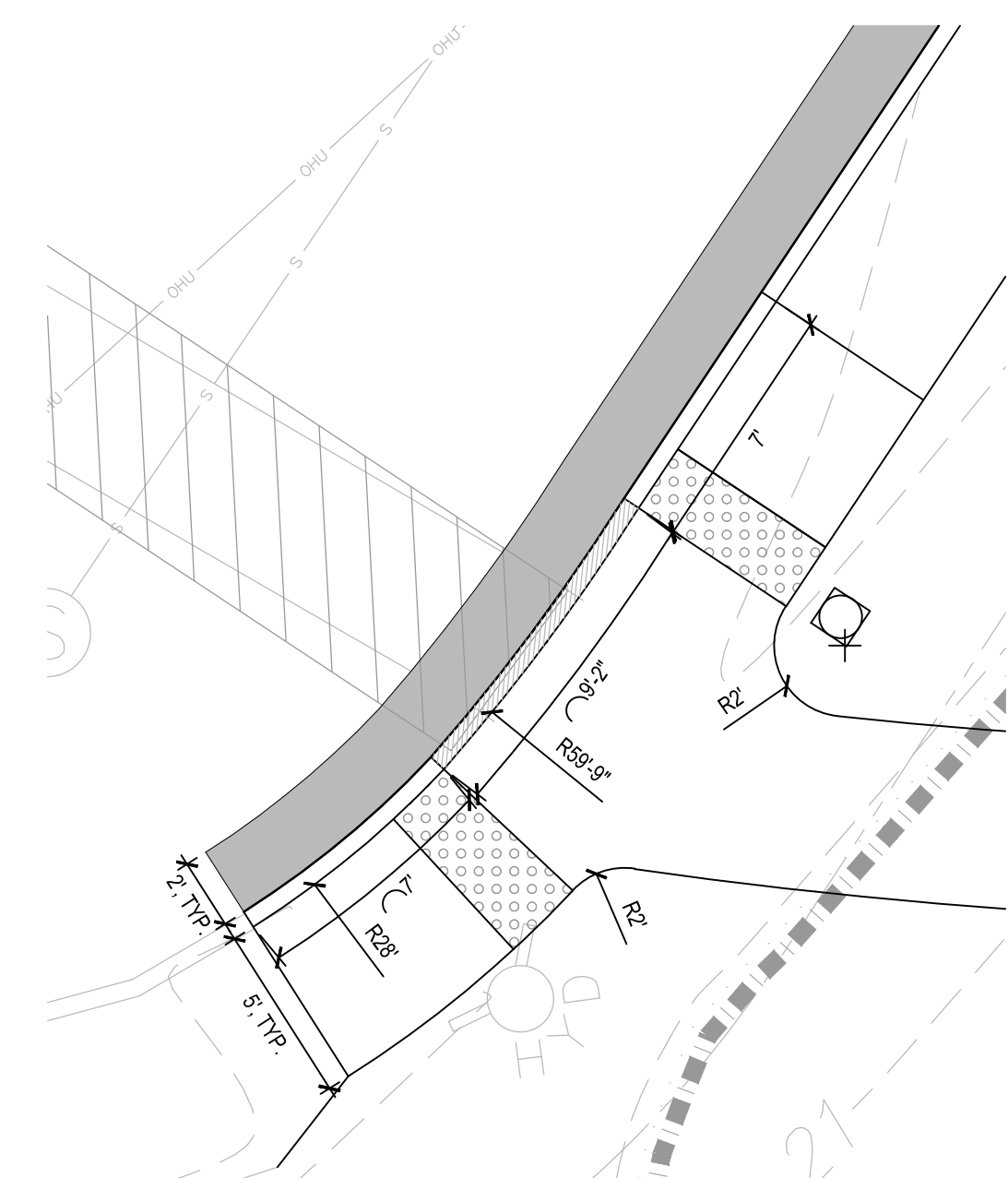
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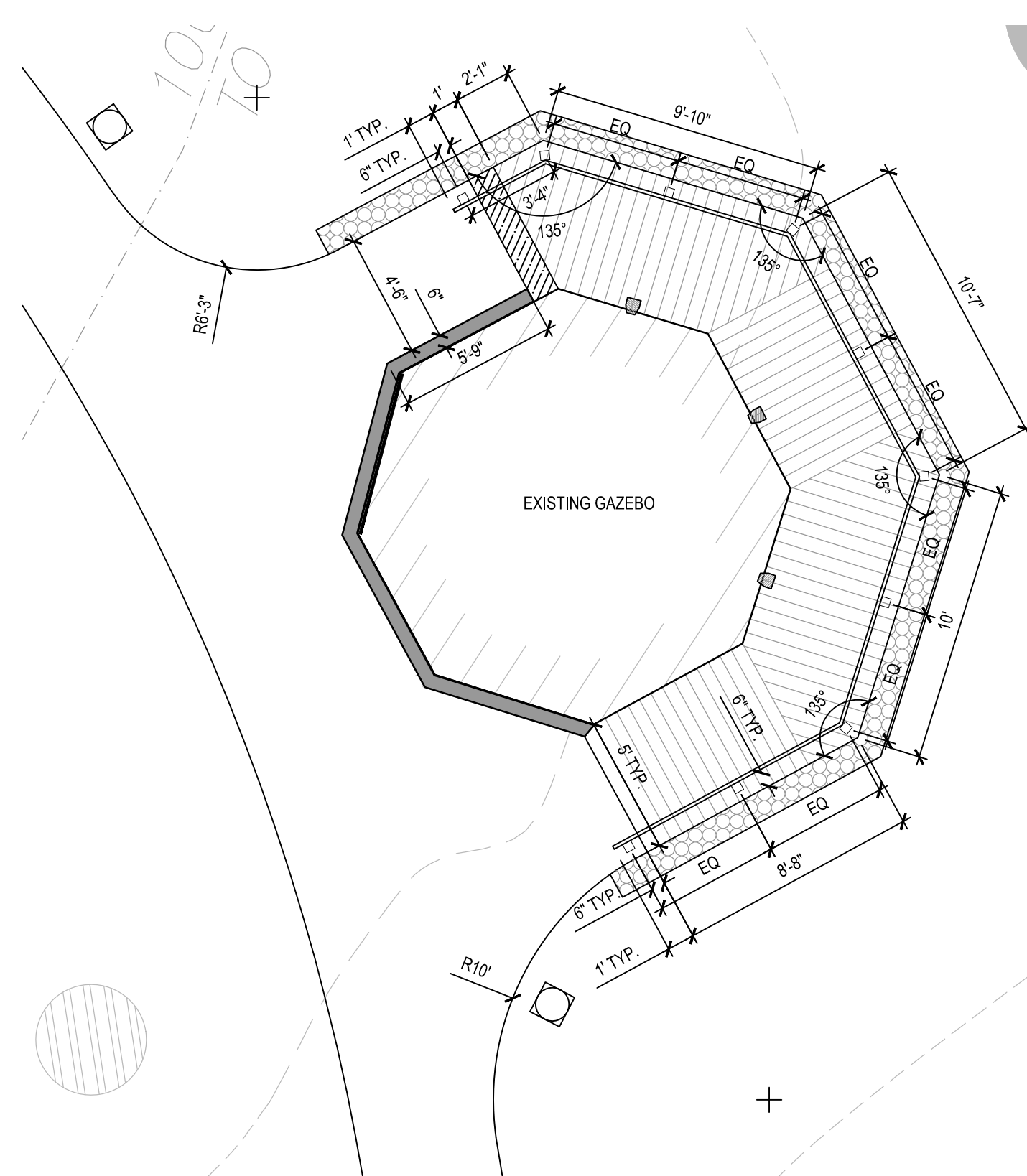
1 ENLARGEMENT PLAN - CORNER OF ONSET AVENUE AND SOUTH BOULEVARD
SCALE: 1" = 5'-0"



2 ENLARGEMENT PLAN - CROSS WALK AT ONSET AVENUE
SCALE: 1" = 5'-0"



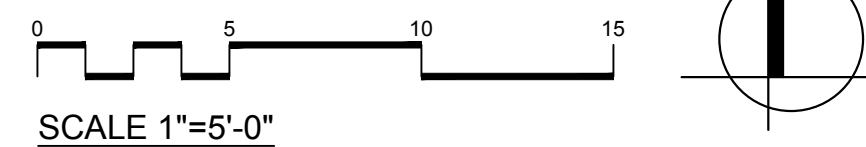
4 ENLARGEMENT PLAN - CROSS WALK AT SOUTH BOULEVARD
SCALE: 1" = 5'-0"



3 ENLARGEMENT PLAN - ADA RAMP AT GAZEBO
SCALE: 1" = 5'-0"

LEGEND

- PROPERTY LINE
- - - - LIMIT OF WORK
- XX' TYP. DIMENSION
- $\overbrace{\hspace{2cm}}^{X'-X"}$ TYP. ARC DIMENSION
- \sphericalangle XX' TYP. ANGLE DIMENSION
- C CENTER LINE
- P CENTER POINT
- EQ. EQUAL
- TYP. TYPICAL
- VIF VERIFY IN FIELD
- BP BASE POINT
- Mid MIDDLE
- PCC POINT OF COMPOUND CURVE
- PT POINT OF TANGENCY
- PRC POINT OF REVERSE CURVE
- PC POINT OF CURVE
- PI POINT OF INTERSECTION
- EP EDGE OF PAVEMENT / END POINT



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Project:
IMPROVEMENTS TO BAYVIEW PARK

186 ONSET AVENUE,
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LAYOUT
ENLARGEMENT PLAN

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L131

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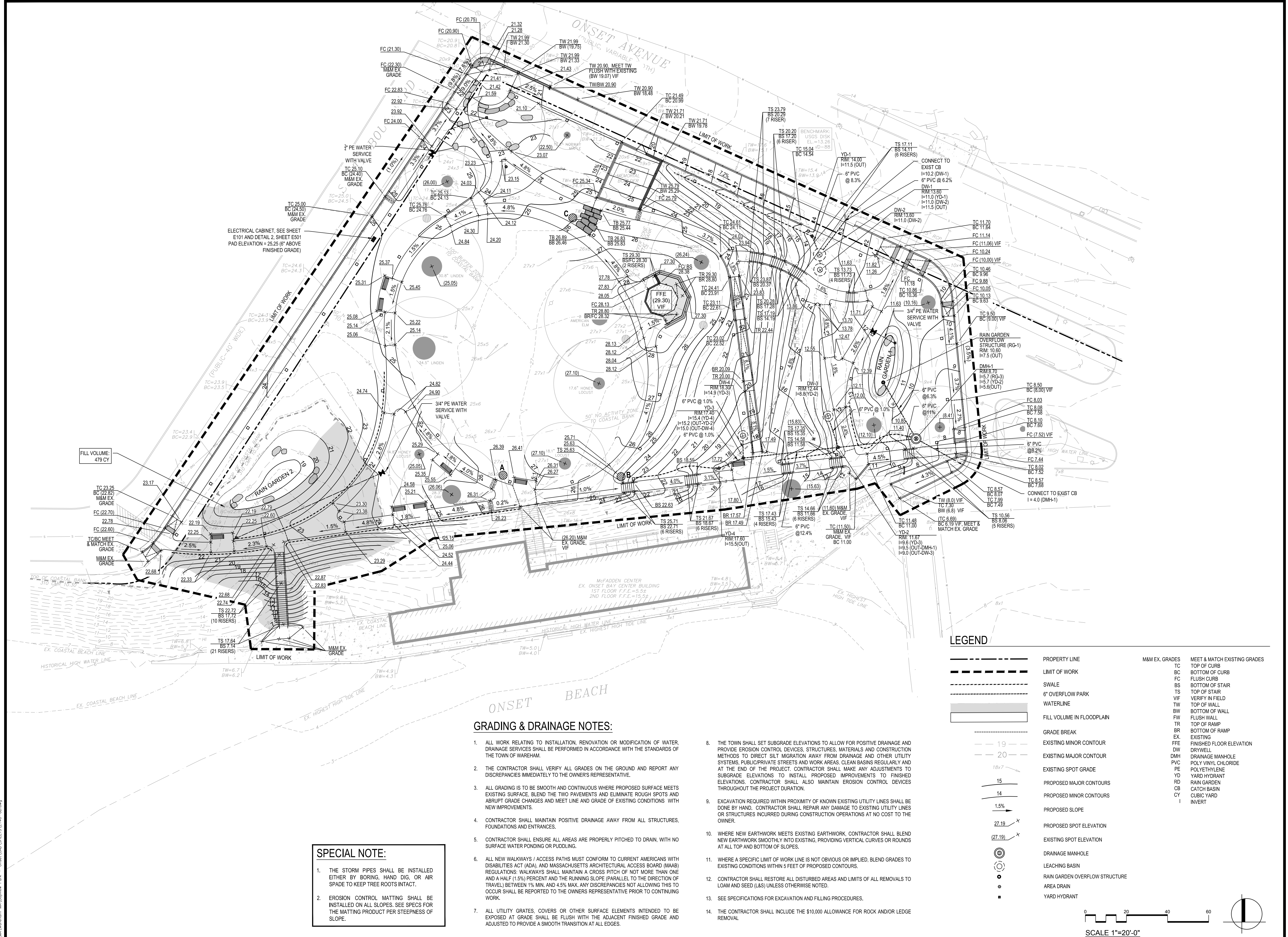
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GRADING AND DRAINAGE PLAN

Sheet Number:

L140



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GRADING & DRAINAGE NOTES:

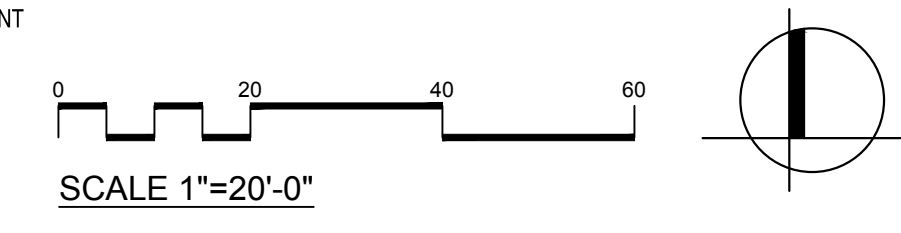
- ALL WORK RELATING TO INSTALLATION, RENOVATION OR MODIFICATION OF WATER, DRAINAGE SERVICES SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS OF THE TOWN OF WAREHAM.
- THE CONTRACTOR SHALL VERIFY ALL GRADES ON THE GROUND AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE OWNER'S REPRESENTATIVE.
- ALL GRADING IS TO BE SMOOTH AND CONTINUOUS WHERE PROPOSED SURFACE MEETS EXISTING SURFACE. BLEND THE TWO PAVEMENTS AND ELIMINATE ROUGH SPOTS AND ABRUPT GRADE CHANGES AND MEET LINE AND GRADE OF EXISTING CONDITIONS WITH NEW IMPROVEMENTS.
- CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES, FOUNDATIONS AND ENTRANCES.
- CONTRACTOR SHALL ENSURE ALL AREAS ARE PROPERLY PITCHED TO DRAIN, WITH NO SURFACE WATER PONDING OR PUDDLING.
- ALL NEW WALKWAYS / ACCESS PATHS MUST CONFORM TO CURRENT AMERICANS WITH DISABILITIES ACT (ADA), AND MASSACHUSETTS ARCHITECTURAL ACCESS BOARD (MAAB) REGULATIONS. WALKWAYS SHALL MAINTAIN A CROSS PITCH OF NOT MORE THAN ONE AND A HALF (1.5%) PERCENT AND THE RUNNING SLOPE (PARALLEL TO THE DIRECTION OF TRAVEL) BETWEEN 1% MIN. AND 4.5% MAX. ANY DISCREPANCIES NOT ALLOWING THIS TO OCCUR SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE PRIOR TO CONTINUING WORK.
- ALL UTILITY GRATES, COVERS OR OTHER SURFACE ELEMENTS INTENDED TO BE EXPOSED AT GRADE SHALL BE FLUSH WITH THE ADJACENT FINISHED GRADE AND ADJUSTED TO PROVIDE A SMOOTH TRANSITION AT ALL EDGES.
- THE TOWN SHALL SET SUBGRADE ELEVATIONS TO ALLOW FOR POSITIVE DRAINAGE AND PROVIDE EROSION CONTROL DEVICES, STRUCTURES, MATERIALS AND CONSTRUCTION METHODS TO DIRECT SILT MIGRATION AWAY FROM DRAINAGE AND OTHER UTILITY SYSTEMS. PUBLIC/Private STREETS AND WORK AREAS, CLEAN BASINS REGULARLY AND AT THE END OF THE PROJECT, CONTRACTOR SHALL MAKE ANY ADJUSTMENTS TO SUBGRADE ELEVATIONS TO INSTALL PROPOSED IMPROVEMENTS TO FINISHED ELEVATIONS. CONTRACTOR SHALL ALSO MAINTAIN EROSION CONTROL DEVICES THROUGHOUT THE PROJECT DURATION.
- EXCAVATION REQUIRED WITHIN PROXIMITY OF KNOWN EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER.
- WHERE NEW EARTHWORK MEETS EXISTING EARTHWORK, CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY INTO EXISTING, PROVIDING VERTICAL CURVES OR ROUNDS AT ALL TOP AND BOTTOM OF SLOPES.
- WHERE A SPECIFIC LIMIT OF WORK LINE IS NOT OBVIOUS OR IMPLIED, BLEND GRADES TO EXISTING CONDITIONS WITHIN 5 FEET OF PROPOSED CONTOURS.
- CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS AND LIMITS OF ALL REMOVALS TO LOAM AND SEED (L&S) UNLESS OTHERWISE NOTED.
- SEE SPECIFICATIONS FOR EXCAVATION AND FILLING PROCEDURES.
- THE CONTRACTOR SHALL INCLUDE THE \$10,000 ALLOWANCE FOR ROCK AND/OR LEDGE REMOVAL

SPECIAL NOTE:

- THE STORM PIPES SHALL BE INSTALLED EITHER BY BORING, HAND DIG, OR AIR SPADE TO KEEP TREE ROOTS INTACT.
- EROSION CONTROL MATTING SHALL BE INSTALLED ON ALL SLOPES. SEE SPECS FOR THE MATTING PRODUCT PER STEEPNESS OF SLOPE.

LEGEND

	PROPERTY LINE		M&M EX. GRADES		MEET & MATCH EXISTING GRADES
	LIMIT OF WORK		TC		TOP OF CURB
	SWALE		BC		BOTTOM OF CURB
	6" OVERFLOW PARK		FC		FLUSH CURB
	WATERLINE		BS		BOTTOM OF STAIR
	FILL VOLUME IN FLOODPLAIN		TS		TOP OF STAIR
	GRADE BREAK		VIF		VERIFY IN FIELD
	EXISTING MINOR CONTOUR		TW		TOP OF WALL
	EXISTING MAJOR CONTOUR		BW		BOTTOM OF WALL
	EXISTING SPOT GRADE		FW		FLUSH WALL
	PROPOSED MAJOR CONTOURS		TR		TOP OF RAMP
	PROPOSED MINOR CONTOURS		BR		BOTTOM OF RAMP
	PROPOSED SLOPE		EX		EXISTING
	PROPOSED SPOT ELEVATION		FFE		FINISHED FLOOR ELEVATION
	EXISTING SPOT ELEVATION		DW		DRYWELL
	DRAINAGE MANHOLE		DMH		DRAINAGE MANHOLE
	LEACHING BASIN		PVC		POLY VINYL CHLORIDE
	RAIN GARDEN OVERFLOW STRUCTURE		PE		POLYETHYLENE
	AREA DRAIN		YD		YARD HYDRANT
	YARD HYDRANT		RD		RAIN GARDEN
			CB		CATCH BASIN
			CY		CUBIC YARD
			I		INVERT



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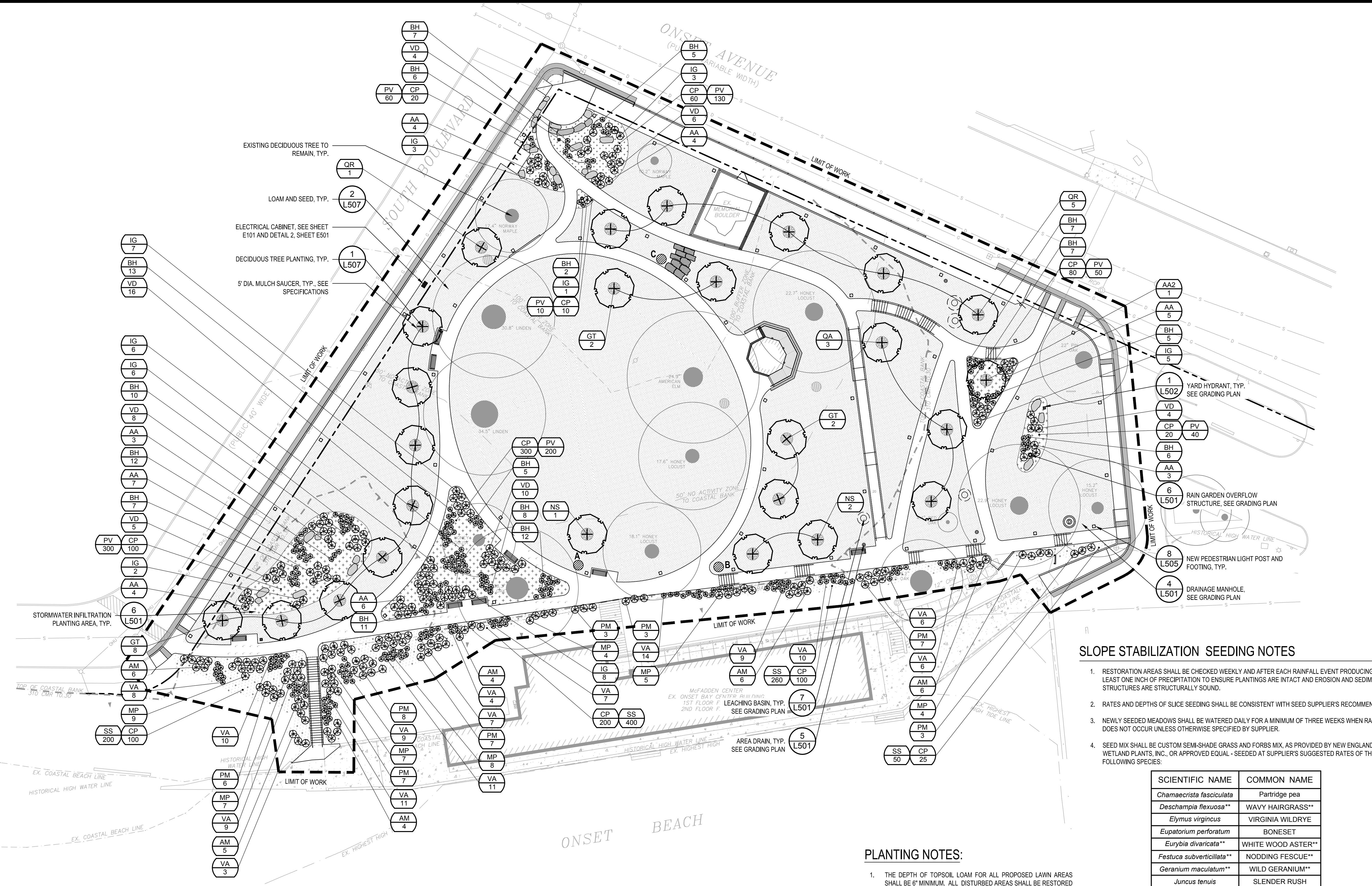


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W&S File No:	

Drawing Title:
PLANTING PLAN
 Sheet Number:
L150



SLOPE STABILIZATION SEEDING NOTES

- RESTORATION AREAS SHALL BE CHECKED WEEKLY AND AFTER EACH RAINFALL EVENT PRODUCING AT LEAST ONE INCH OF PRECIPITATION TO ENSURE PLANTINGS ARE INTACT AND EROSION AND SEDIMENT STRUCTURES ARE STRUCTURALLY SOUND.
- RATES AND DEPTHS OF SLICE SEEDING SHALL BE CONSISTENT WITH SEED SUPPLIER'S RECOMMENDATIONS.
- NEWLY SEEDED MEADOWS SHALL BE WATERED DAILY FOR A MINIMUM OF THREE WEEKS WHEN RAINFALL DOES NOT OCCUR UNLESS OTHERWISE SPECIFIED BY SUPPLIER.
- SEED MIX SHALL BE CUSTOM SEMI-SHADE GRASS AND FORBS MIX, AS PROVIDED BY NEW ENGLAND WETLAND PLANTS, INC., OR APPROVED EQUAL - SEEDED AT SUPPLIER'S SUGGESTED RATES OF THE FOLLOWING SPECIES:

SCIENTIFIC NAME	COMMON NAME
<i>Chamaecrista fasciculata</i>	Partridge pea
<i>Deschampsia flexuosa</i> **	WAVY HAIRGRASS**
<i>Elymus virginicus</i>	VIRGINIA WILDRYE
<i>Eupatorium perforatum</i>	BONESET
<i>Eurybia divaricata</i> **	WHITE WOOD ASTER**
<i>Festuca subverticillata</i> **	NODDING FESCUE**
<i>Geranium maculatum</i> **	WILD GERANIUM**
<i>Juncus tenuis</i>	SLENDER RUSH
<i>Onoclea sensibilis</i>	SENSITIVE FERN

SUBSTITUTED PLANTS ARE SHOWN ENDING WITH A DOUBLE ASTERISK (XXXX**), CONTRACTOR TO COORDINATE CUSTOM SEED MIX WITH SUPPLIER TO ENSURE PRODUCT IS DELIVERED IN A TIMELY MANNER.

PLANTING NOTES:

- THE DEPTH OF TOPSOIL LOAM FOR ALL PROPOSED LAWN AREAS SHALL BE 6" MINIMUM. ALL DISTURBED AREAS SHALL BE RESTORED WITH LOAM AND SEED UNLESS OTHERWISE NOTED
- ALL REFERENCES TO LOAM AND SEED REFER TO HYDROMULCH SEEDED LAWN.

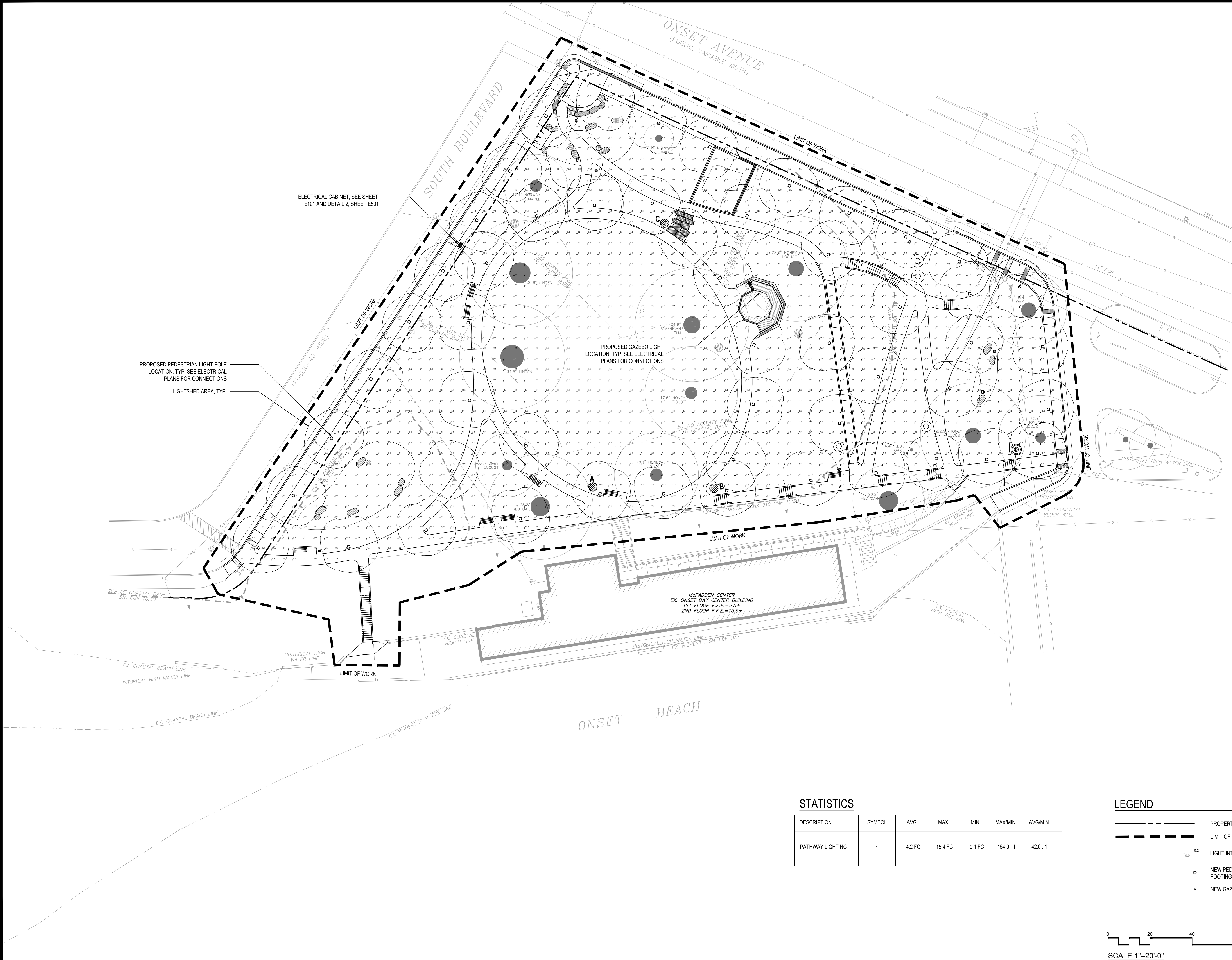
LEGEND

	PROPERTY LINE		NEW PEDESTRIAN LIGHT POST AND FOOTING
	LIMIT OF WORK		DRAINAGE MANHOLE
	LOAM AND SEED		LEACHING BASIN
	GROUNDCOVER PLANTING		RAIN GARDEN OVERFLOW STRUCTURE
	COASTAL SLOPE STABILIZATION SEED MIX		AREA DRAIN
	5' DIA. MULCH SAUCER		YARD HYDRANT
	EXISTING CANOPY		SHRUBS
	DECIDUOUS TREE		

PLANT SCHEDULE						
TREES						
CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	NOTES
AA2	1	AMELANCHIER ARBOREA	SERVICE BERRY	10'-12" HEIGHT	B&B	
GT	12	GLEDITSIA TRIACANTHOS	HONEY LOCUST	2-2.5" CAL.	B&B	
NS	3	NYSSA SYLVATICA	TUPELO	2-2.5" CAL.	B&B	
QR	6	QUERCUS RUBRA	RED OAK	2-2.5" CAL.	B&B	
QA	3	QUERCUS ALBA	WHITE OAK	2-2.5" CAL.	B&B	

GROUNDCOVER						
CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	NOTES
CP	1015	CAREX PENNSYLVANICA	PENNSYLVANIA SEDGE	4"	PLUG	SPACE 18" O.C.
PV	790	PANICUM VIRGATUM	SWITCHGRASS	4"	PLUG	SPACE 18" O.C.
SS	910	SOLIDAGO SEMPERVIRENS	SEASIDE GOLDENROD	4"	PLUG	SPACE 18" O.C.

SHRUBS						
CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	NOTES
AA	36	ARONIA ARBUTIFOLIA	RED CHOKEBERRY	#5	CONTAINER	
AM	31	ARONIA MELANOCARPA	BLACK CHOKEBERRY	#5	CONTAINER	
BH	123	BACCHARIS HALIMIFOLIA	GROUNDSELTREE	#3	CONTAINER	
IG	41	ILEX GLABRA	INKEBERRY	#5	CONTAINER	
MP	44	MYRICA PENNSYLVANICA	BAYBERRY	#5	CONTAINER	
PM	44	PRUNUS MARITIMA	BEACH PLUM	#5	CONTAINER	
VA	124	VACCINIUM ANGUSTIFOLIUM	LOWBUSH BLUEBERRY	#3	CONTAINER	
VD	53	VIBURNUM DENTATUM	ARROWWOOD VIRBURNUM	#5	CONTAINER	



ELECTRICAL CABINET, SEE SHEET E101 AND DETAIL 2, SHEET E501

PROPOSED PEDESTRIAN LIGHT POLE LOCATION, TYP. SEE ELECTRICAL PLANS FOR CONNECTIONS
LIGHTSHED AREA, TYP.

PROPOSED GAZEBO LIGHT LOCATION, TYP. SEE ELECTRICAL PLANS FOR CONNECTIONS

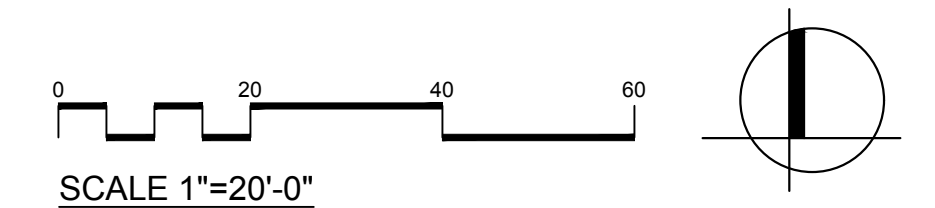
McFADDEN CENTER
EX. ONSET BAY CENTER BUILDING
1ST FLOOR F.F.E. = 5.52
2ND FLOOR F.F.E. = 15.52

STATISTICS

DESCRIPTION	SYMBOL	AVG	MAX	MIN	MAX:MIN	AVG:MIN
PATHWAY LIGHTING	-	4.2 FC	15.4 FC	0.1 FC	154.0:1	42.0:1

LEGEND

- PROPERTY LINE
- LIMIT OF WORK
- LIGHT INTENSITY
- NEW PEDESTRIAN LIGHT POST AND FOOTING
- NEW GAZEBO LIGHTING



P:\MA\Wareham MA\Bayview Park - Onset\CAD\SHETS\1160-Lighting Plan.dwg

Project:
IMPROVEMENTS TO BAYVIEW PARK

186 ONSET AVENUE,
WAREHAM, MA, 02558

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Drawing Title:
PEDESTRIAN LIGHTING PLAN

Sheet Number:
L160

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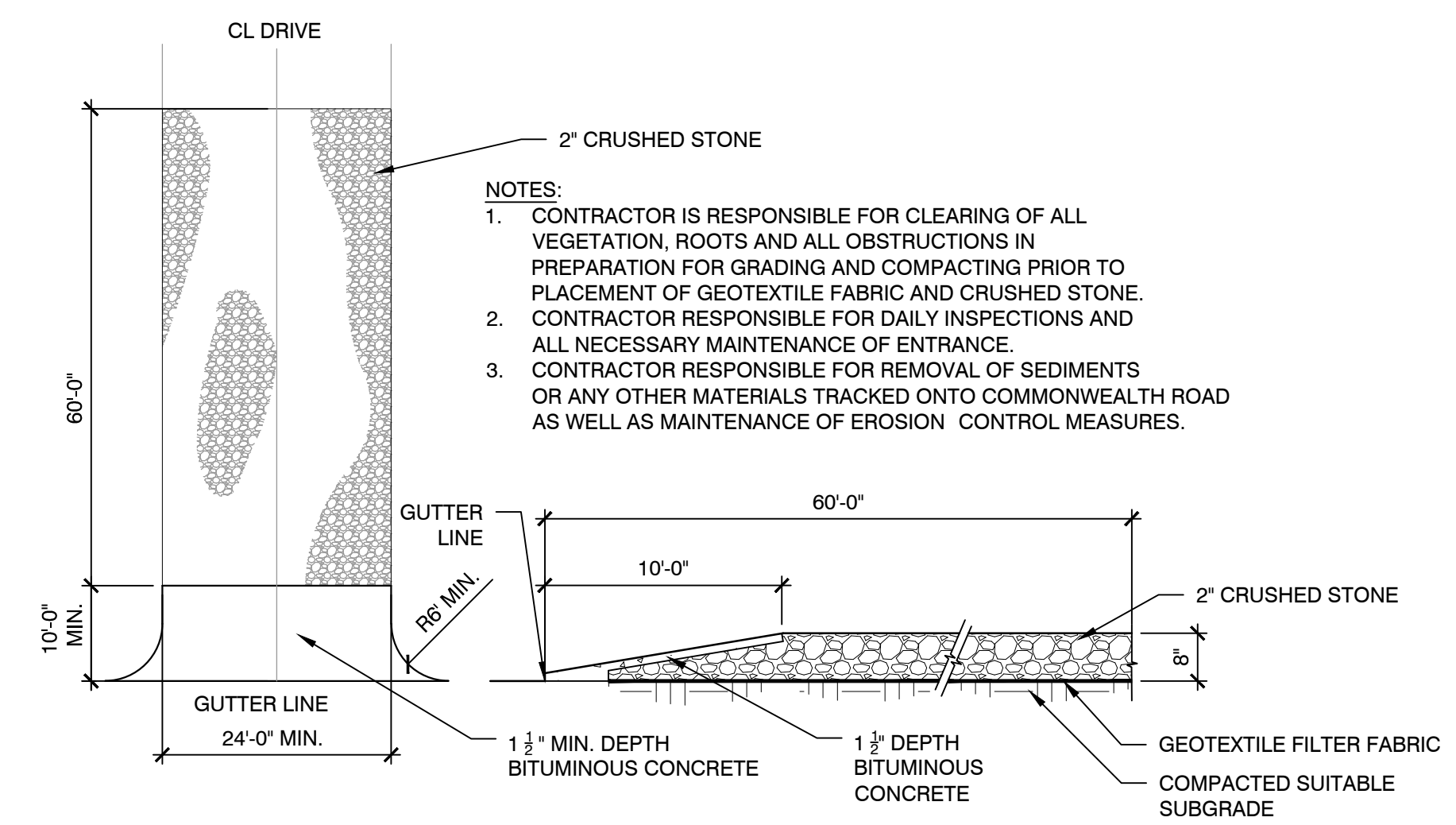
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W&S Project No:	ENG21-1048
W&S File No:	

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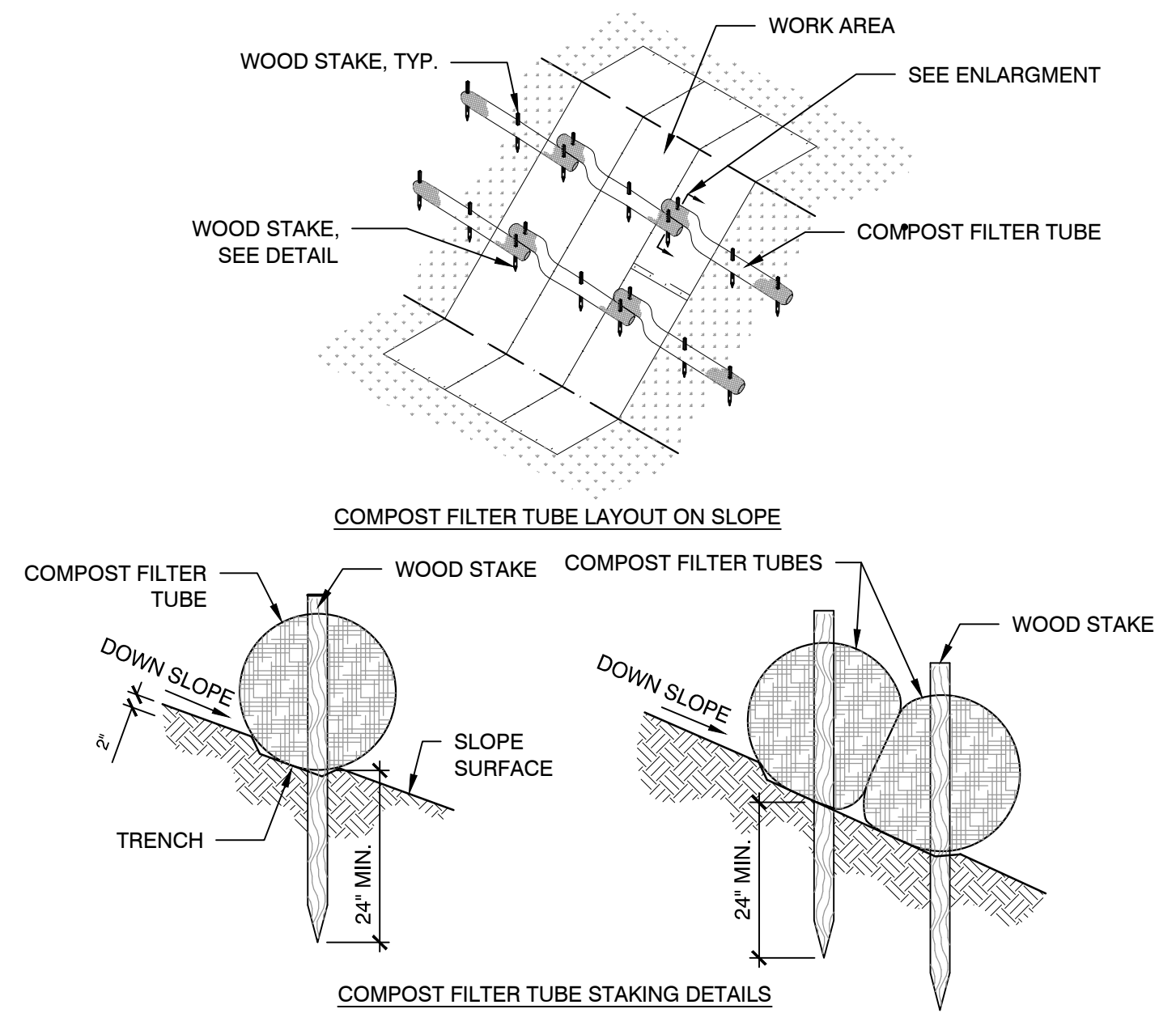
CONSTRUCTION DETAILS

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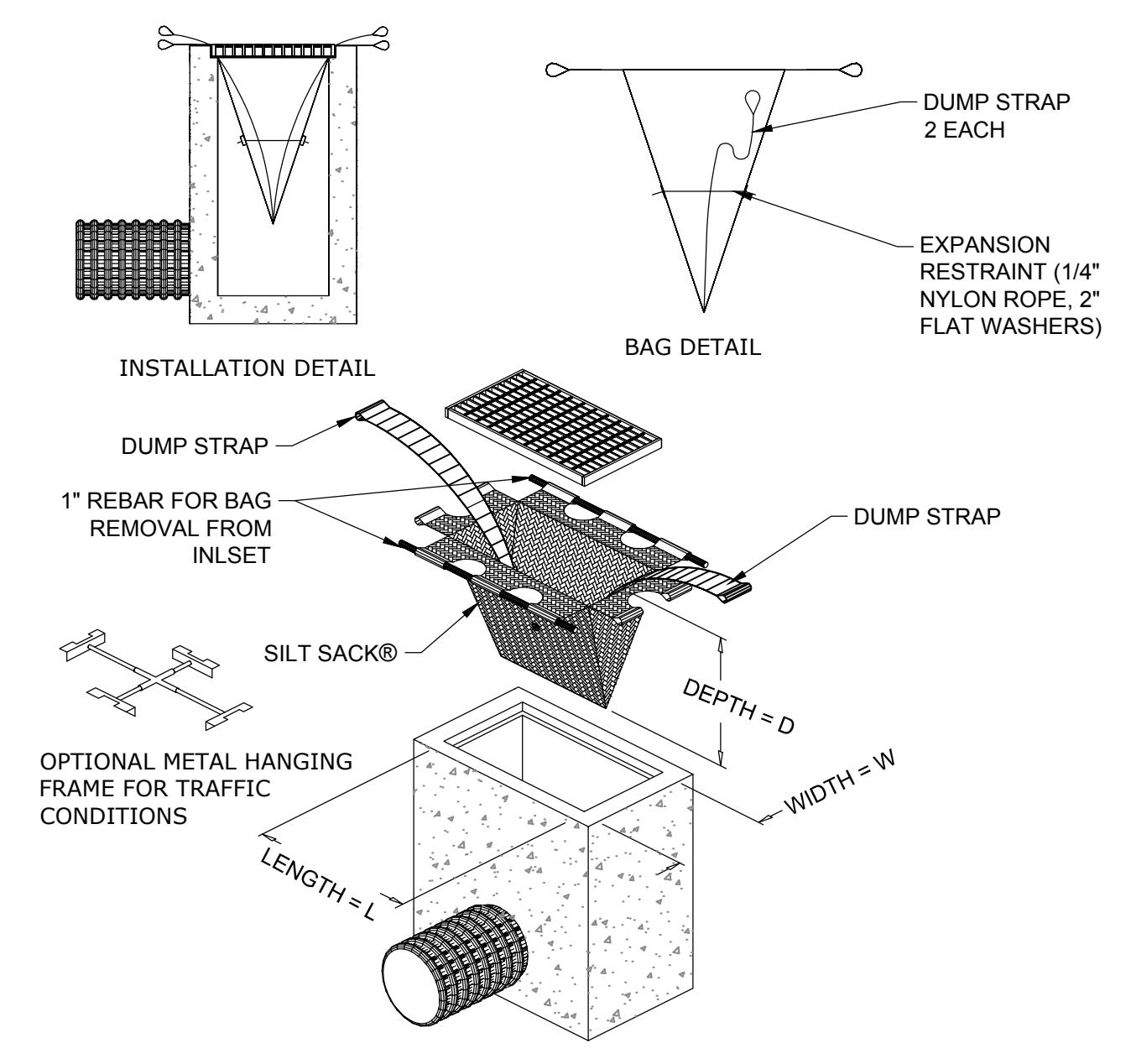
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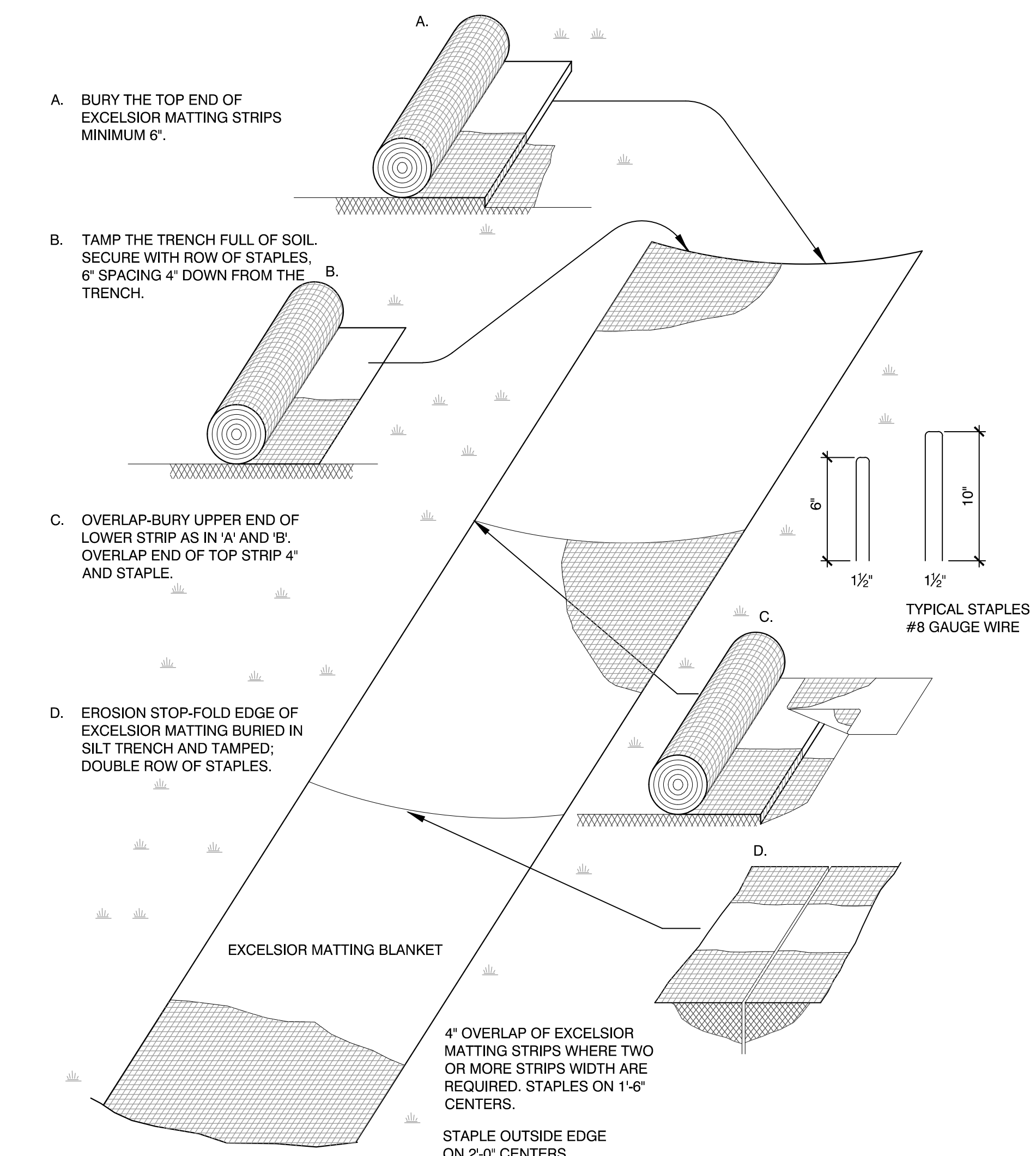
1 CONSTRUCTION ENTRANCE
NOT TO SCALE



2 EROSION AND SEDIMENT CONTROL
NOT TO SCALE



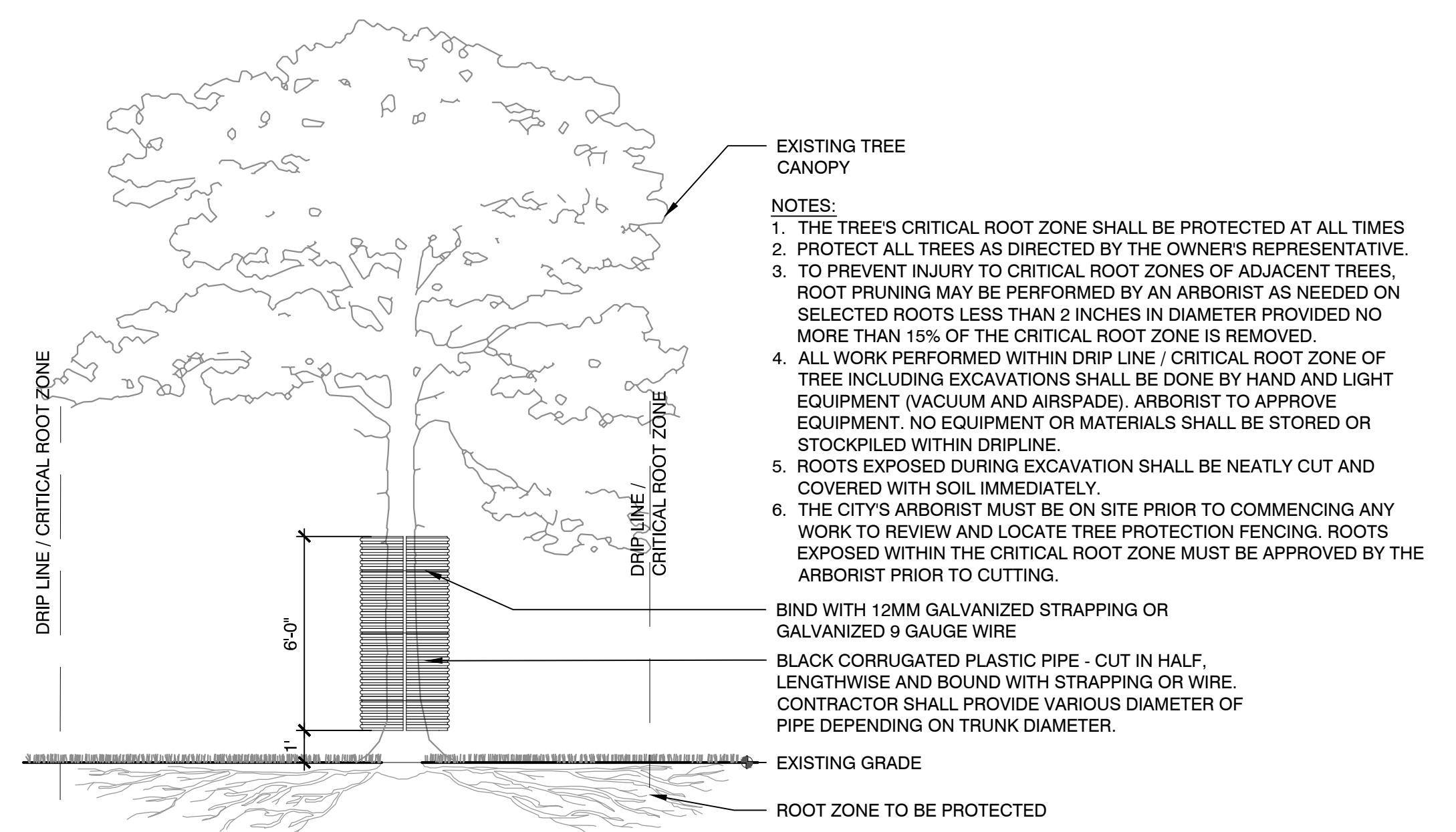
3 INLET PROTECTION
NOT TO SCALE



NOTE:

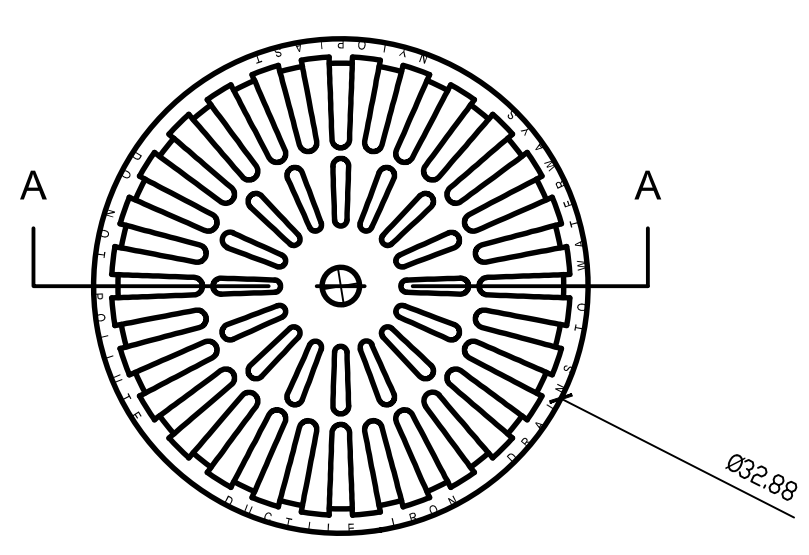
1. JUTE NETTING TO BE USED ON ALL SLOPES GREATER THAN 4H:1V AS INDICATED ON GRADING PLANS

4 EROSION CONTROL BLANKET
NOT TO SCALE



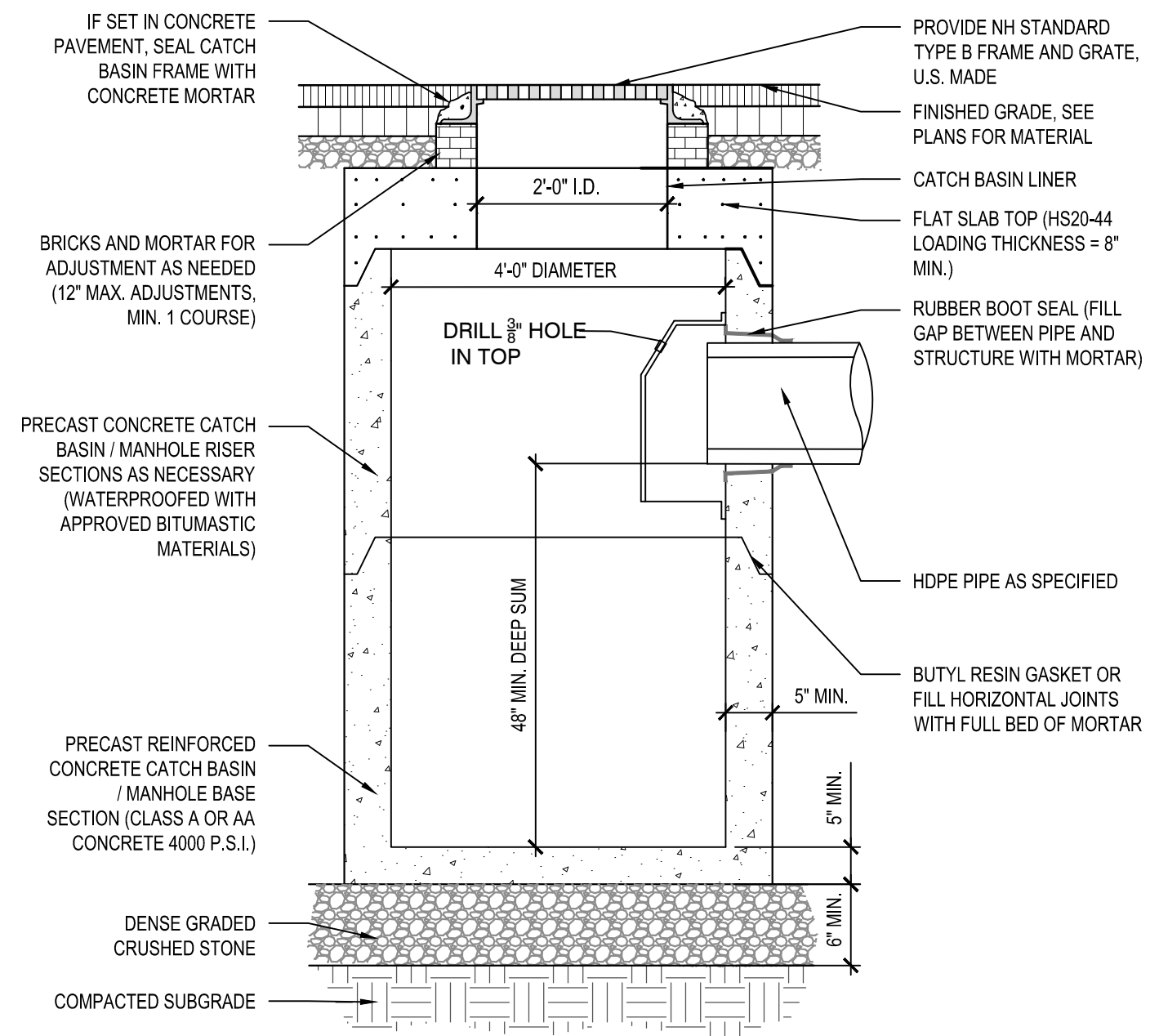
5 TREE PROTECTION
NOT TO SCALE

APPROX. DRAIN AREA = 409.94 SQ IN
APPROX. WEIGHT WITH FRAME = 93.00 LBS

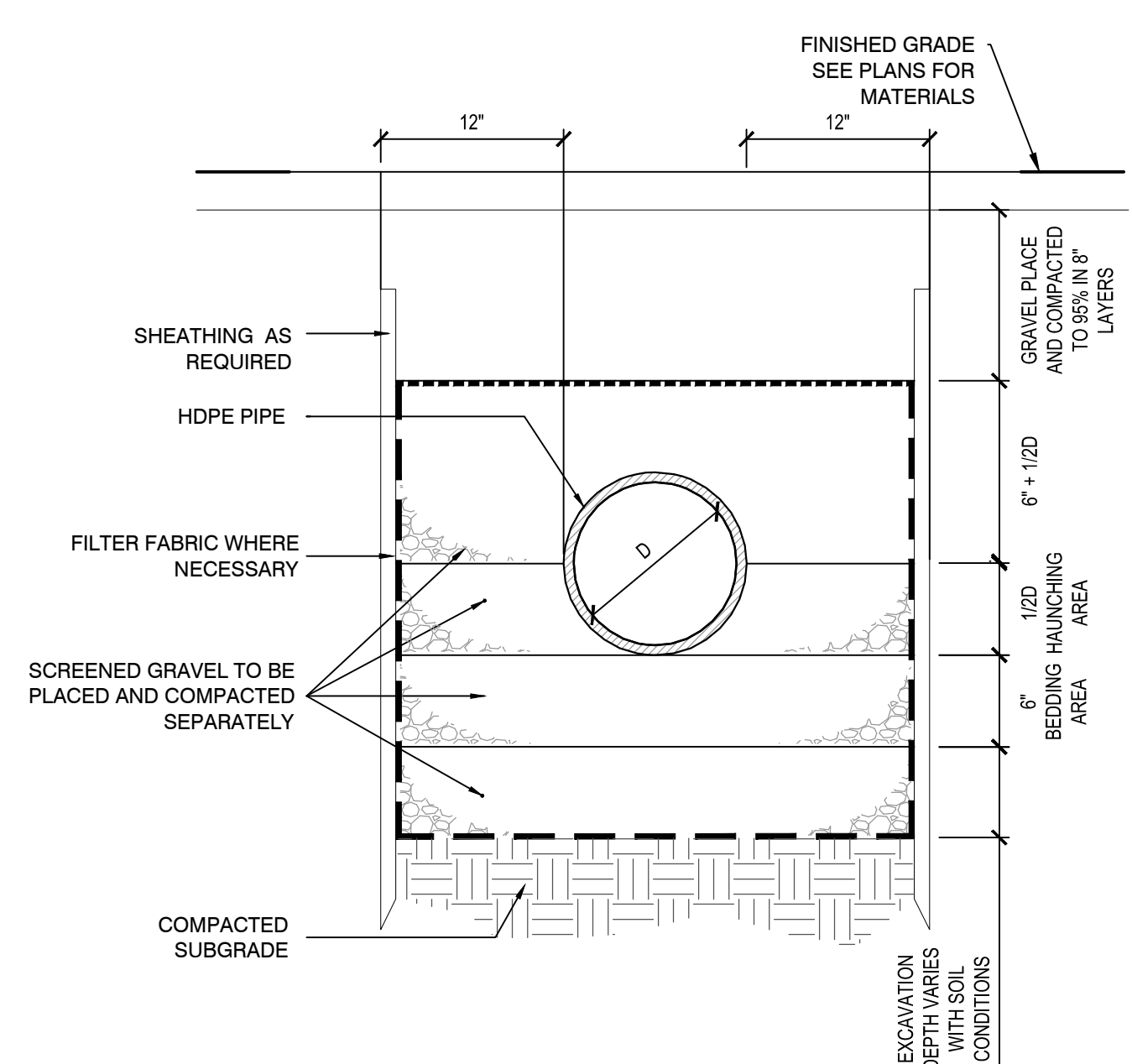


- NOTE:
1. DIMENSIONS ARE FOR REFERENCE ONLY. ACTUAL DIMENSIONS MAY VARY.
 2. DIMENSIONS ARE IN INCHES.
 3. QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
 4. PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT LOCKING DEVICE AVAILABLE UPON REQUEST.
 5. ALL AREA DRAINS TO HAVE BEEHIVE GRATE INLET.

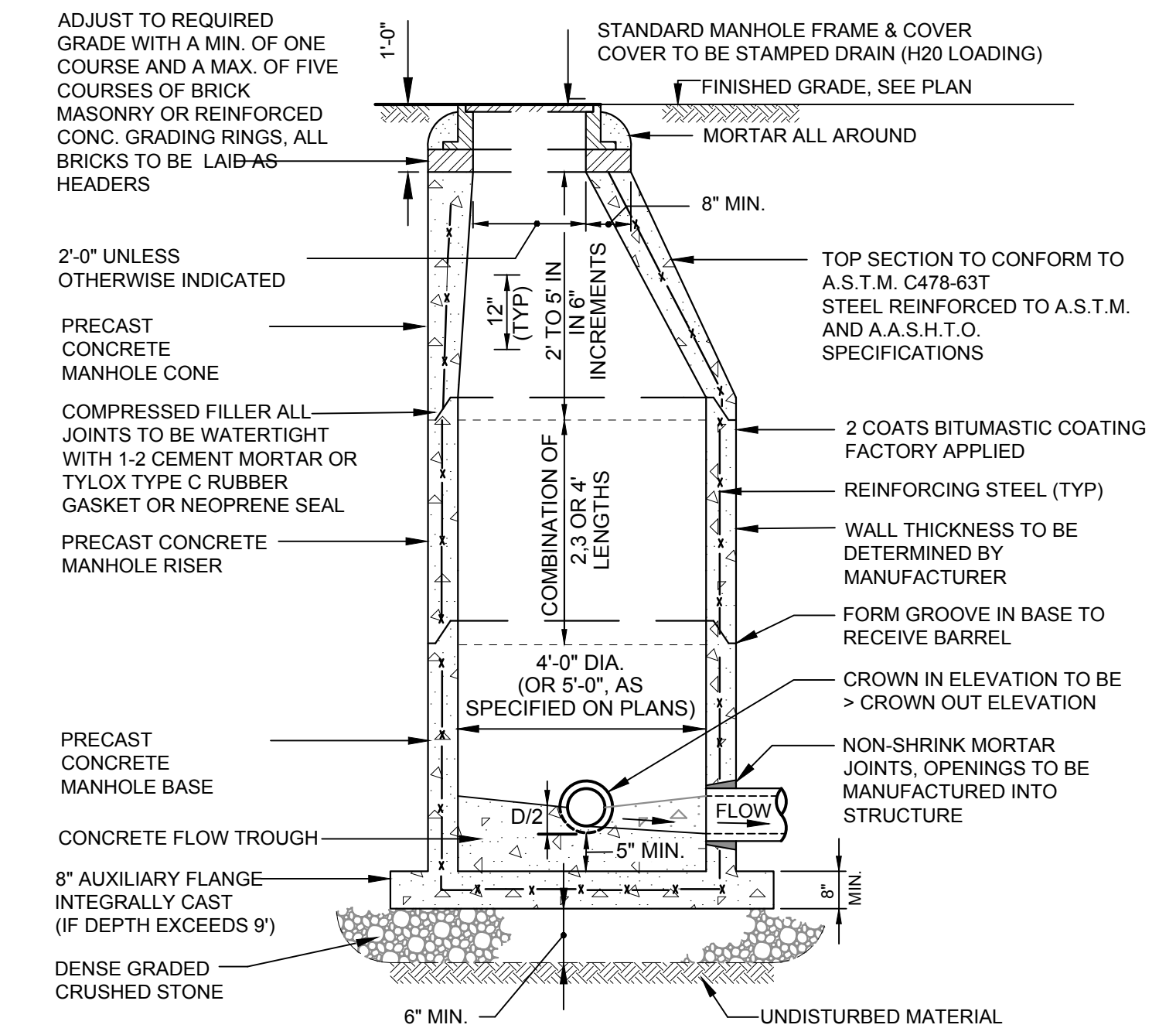
1 BEEHIVE GRATE
NOT TO SCALE



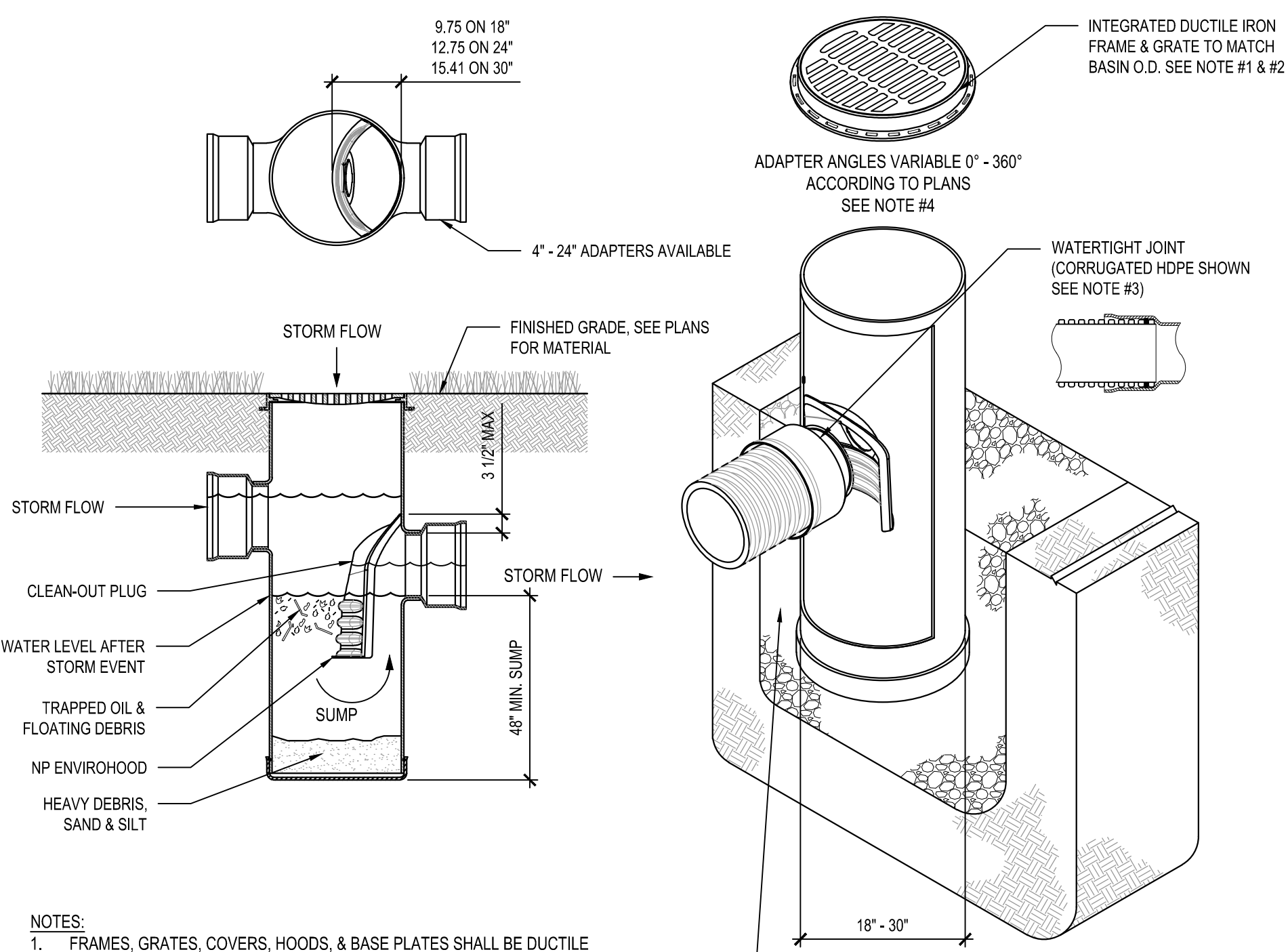
2 CATCH BASIN
NOT TO SCALE



3 DRAIN TRENCH DETAIL
NOT TO SCALE

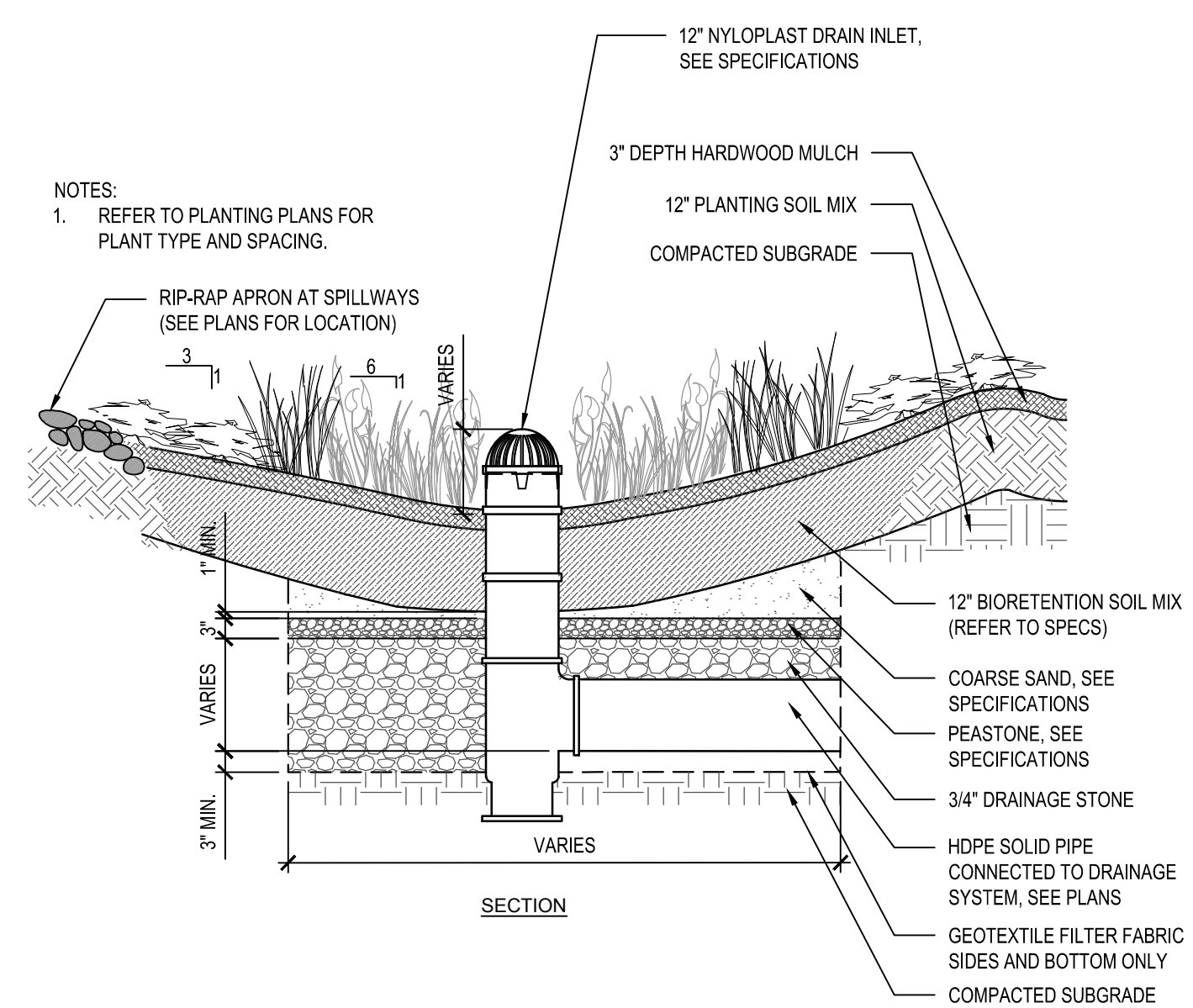


4 PRECAST CONCRETE MANHOLE
NOT TO SCALE

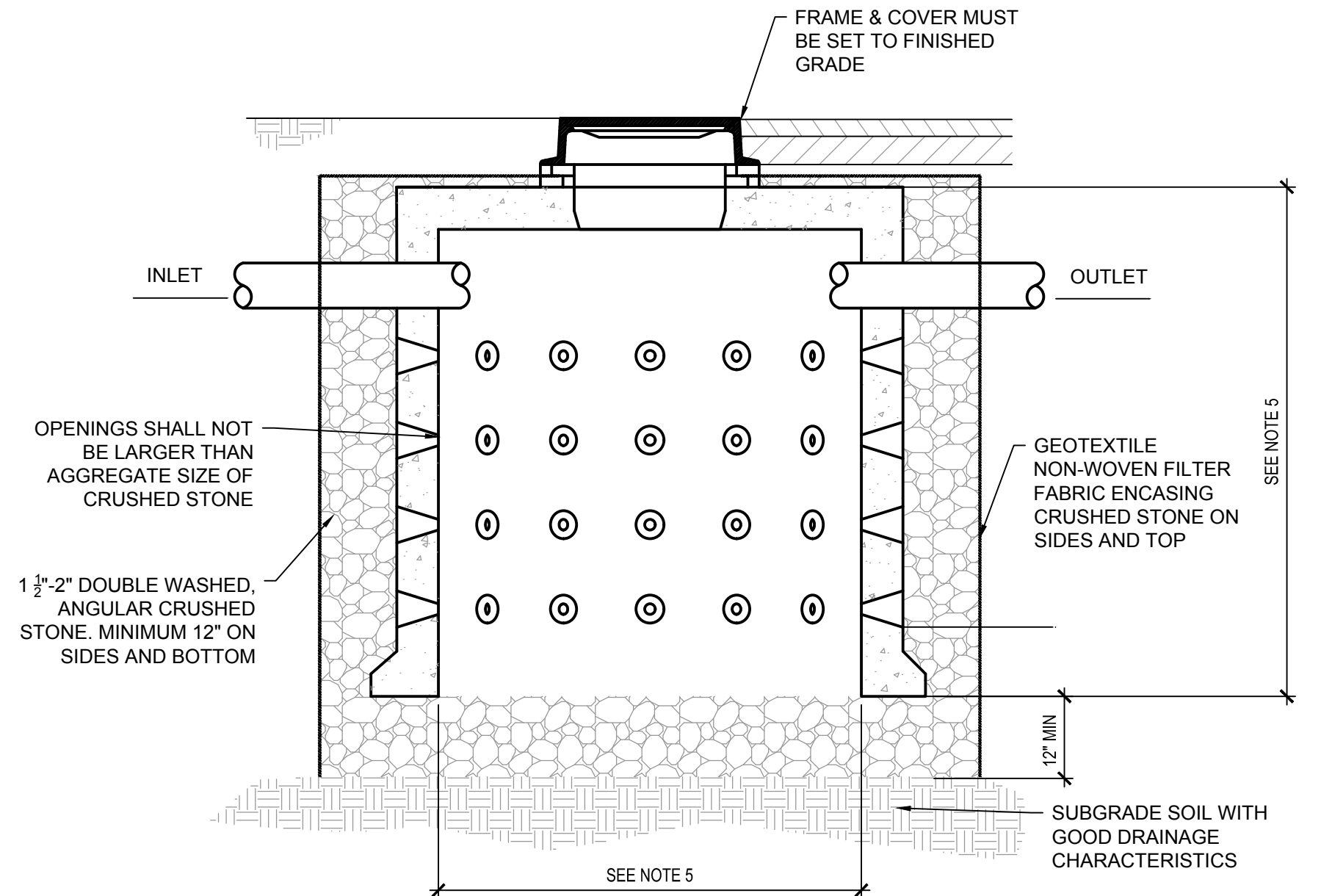


- NOTES:
1. FRAMES, GRATES, COVERS, HOODS, & BASE PLATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
 2. DRAIN BASINS TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS MAY BE NEEDED FOR BASINS OVER 84\"/>

5 AREA DRAIN
NOT TO SCALE



6 STORM WATER INFILTRATION PLANTING AREA
NOT TO SCALE



- NOTES:
1. CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS.
 2. INLET PIPE TO ALL SUBSURFACE INFILTRATION SYSTEMS MUST COME FROM A STRUCTURE WITH 4 FOOT SUMP.
 3. OUTLET PIPE, IF REQUIRED, SHALL BE SCH-40 PVC, MIN. DIAMETER OF 6 INCHES.
 4. UNDER PAVED/HARDSCAPED AREAS INFILTRATION SYSTEM SHALL BE CAPABLE OF SUPPORTING H-20 LOADING.
 5. SIZE AND HEIGHT OF PROPOSED DRYWELLS SHALL BE AS FOLLOWS:

STRUCTURE NO.	DIAMETER	HEIGHT
DW-1	6\"/>	

7 LEACHING BASIN
NOT TO SCALE

Project:
IMPROVEMENTS TO
BAYVIEW PARK

186 ONSET AVENUE,
WAREHAM, MA, 02558

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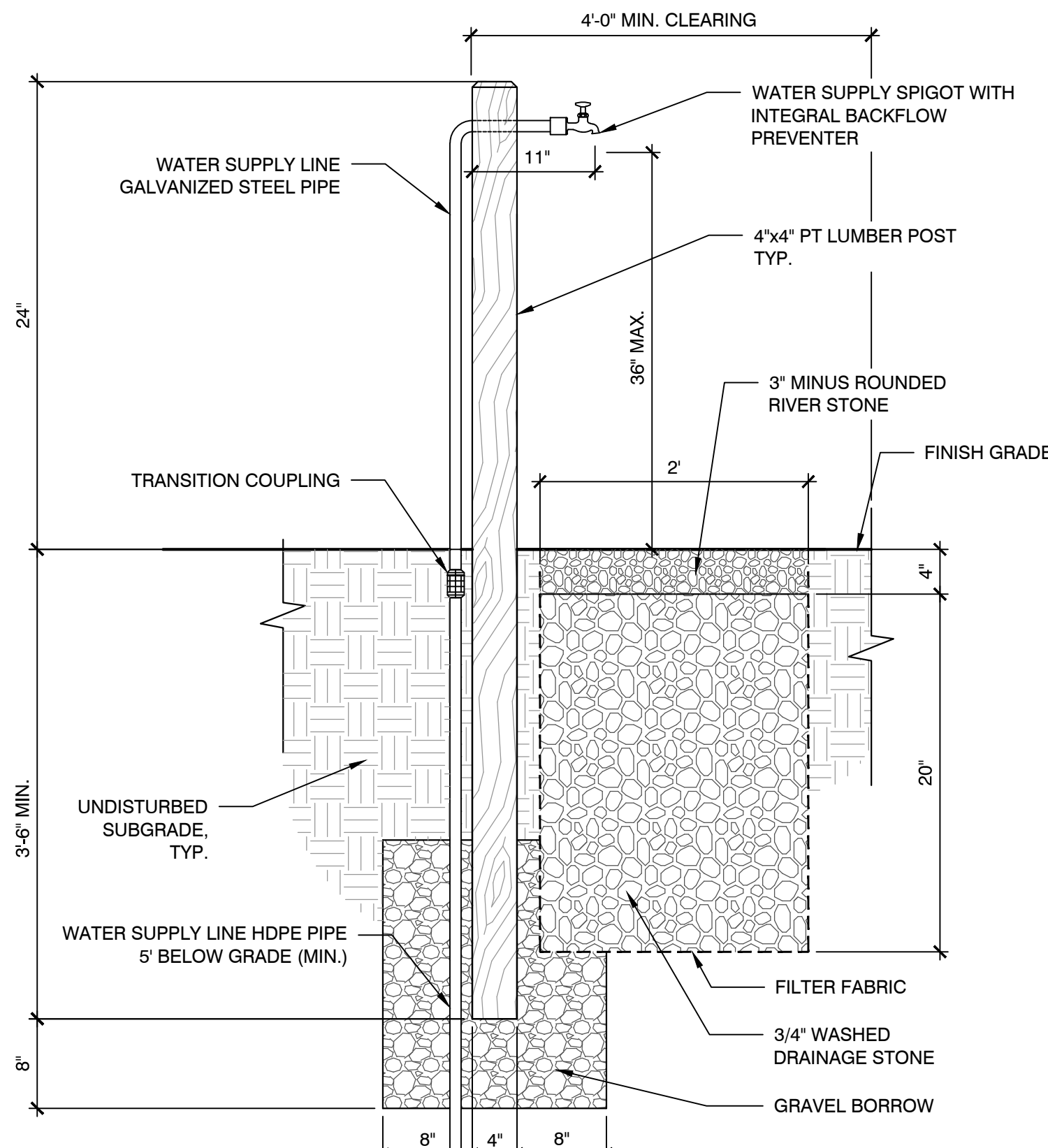
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W&S Project No: ENG21-1048

W&S File No:

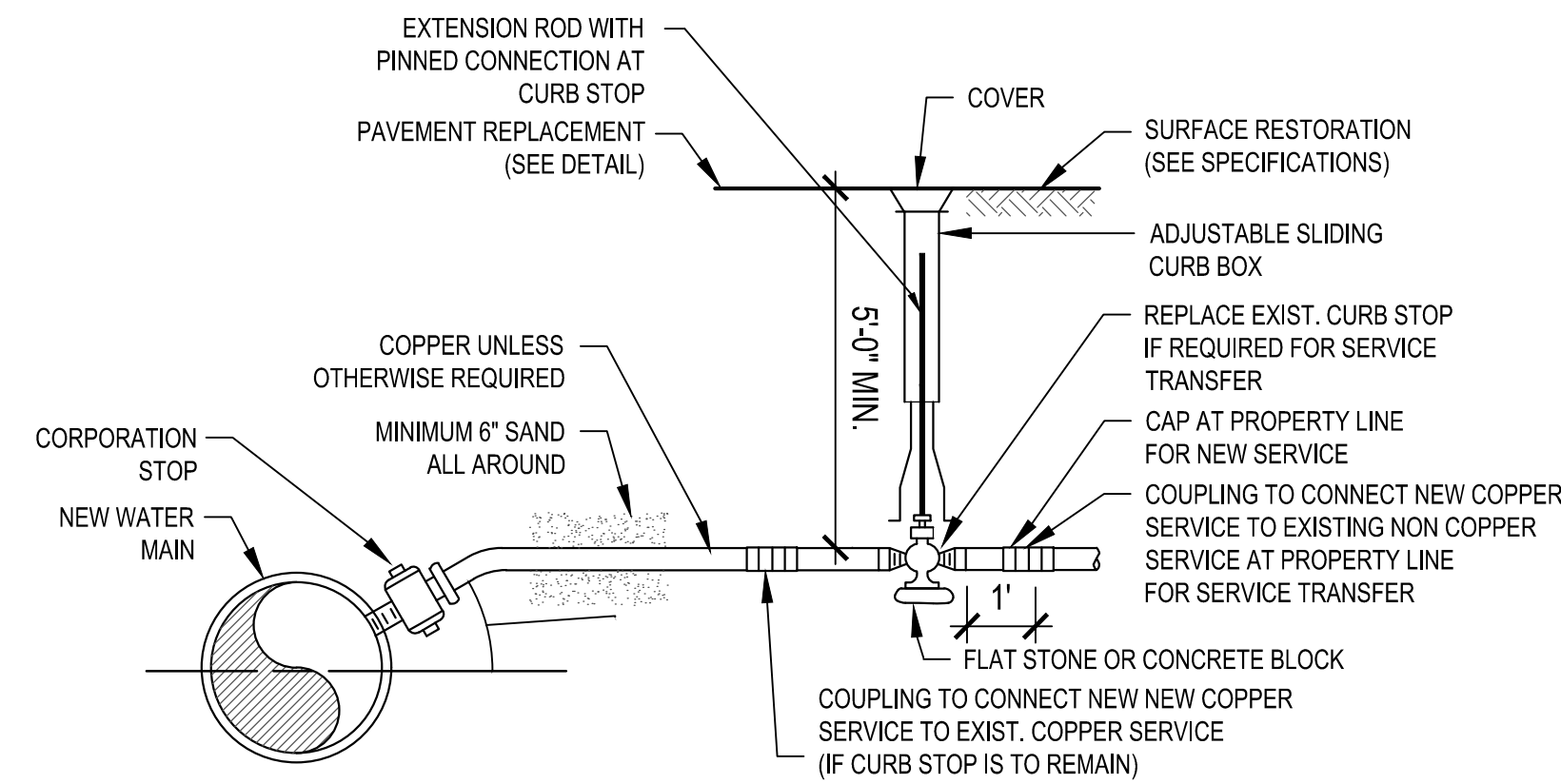
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**CONSTRUCTION
DETAILS**

Sheet Number:
L501



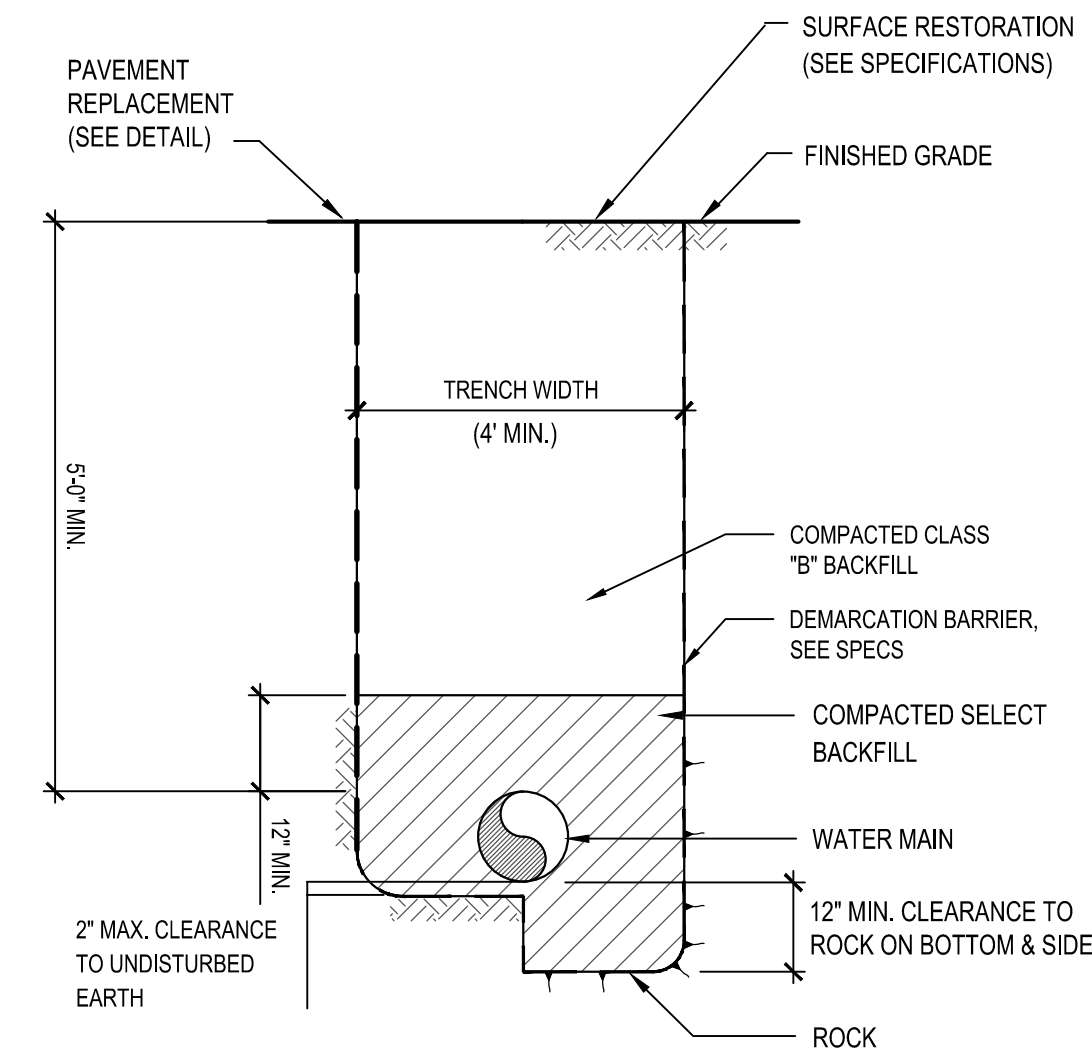
- NOTES:
1. A MINIMUM OF 6' BY 4' CLEARING TO BE PROVIDED AROUND YARD HYDRANT.
 2. CURB STOP BOXES SHALL BE LOCATED IN ROADWAY OR GRAVEL SURFACE.

1 YARD HYDRANT
NOT TO SCALE

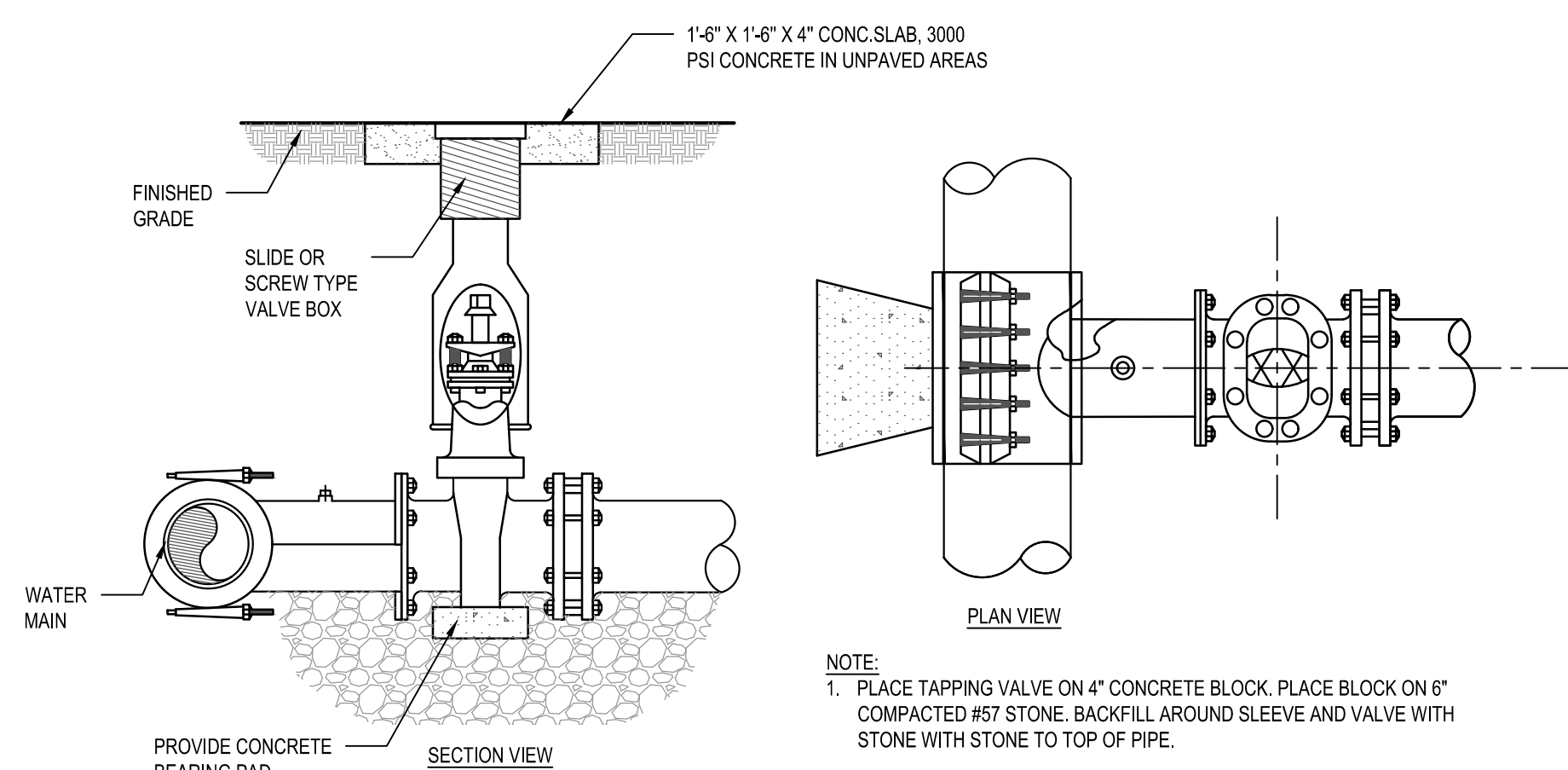


- NOTES:
1. PROVIDE SADDLE FOR ALL AC AND PVC MAINS AND ALL 2" OR LARGER STOPS.
 2. TRACER WIRE SHALL BE #12 AWG SOLID COPPER WITH 30 MIL BLUE HDPE INSULATION
 3. IF CURB IS IN LAWN AREA, EXTEND TRACER WIRE UP THE OUTSIDE OF BOX, WRAP END THREE TIMES AROUND BOX AND LEAVE APPROXIMATELY ONE INCH BELOW THE OUTSIDE TOP OF BOX. IF CURB BOX IS IN PAVEMENT AREA, EXTEND TRACER WIRE UP THE INSIDE OF BOX LEAVING THREE FEET COILED UP INSIDE TOP OF BOX.
 4. TRACER WIRE SHALL BE CONNECTED TO CORPORATION STOP WITH BRASS THAW WIRE NUT COMPRESSION ASSEMBLY WITH SET SCREW.

2 WATER SERVICE DETAIL
NOT TO SCALE

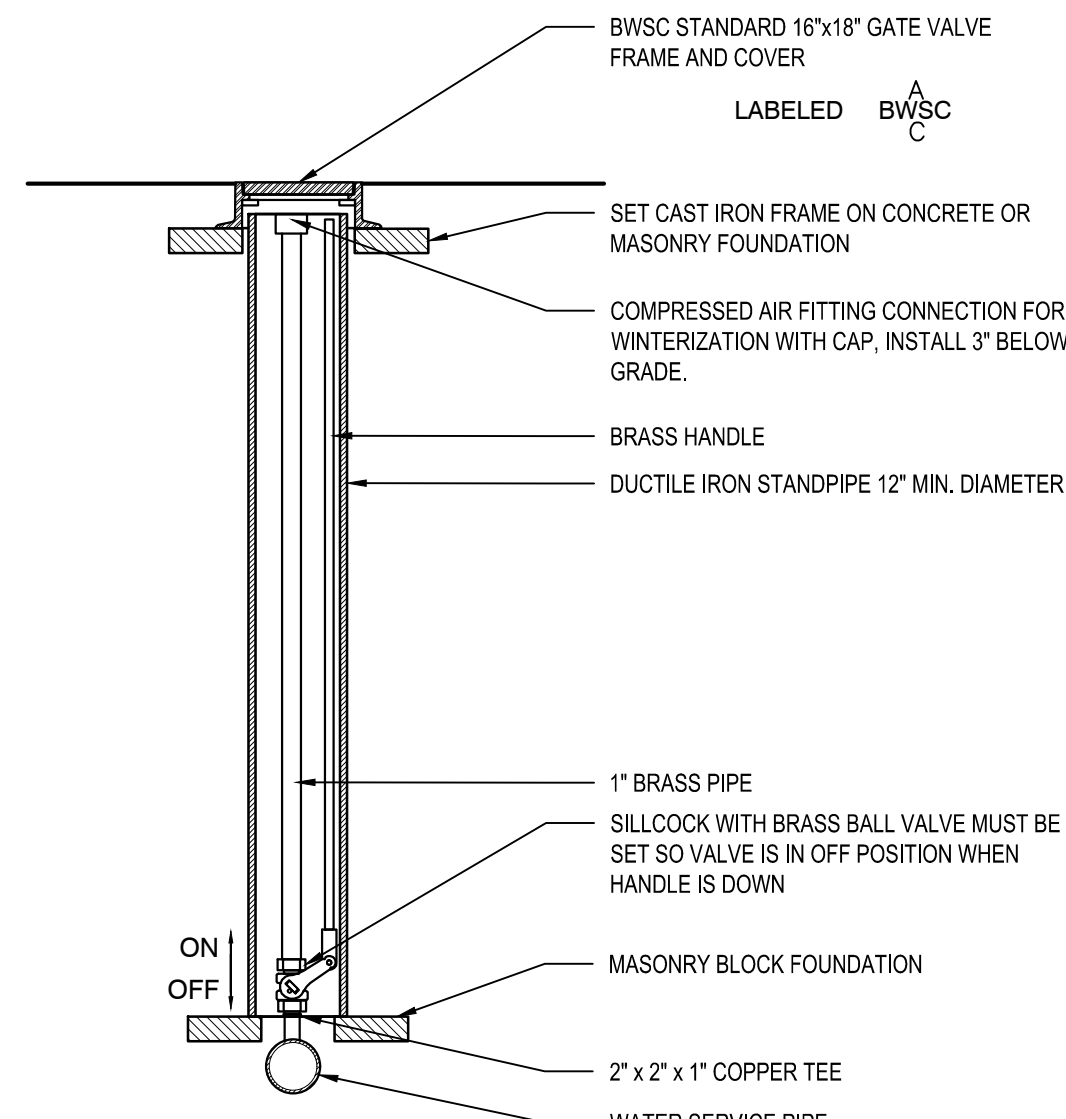


3 WATER TRENCH DETAIL
NOT TO SCALE

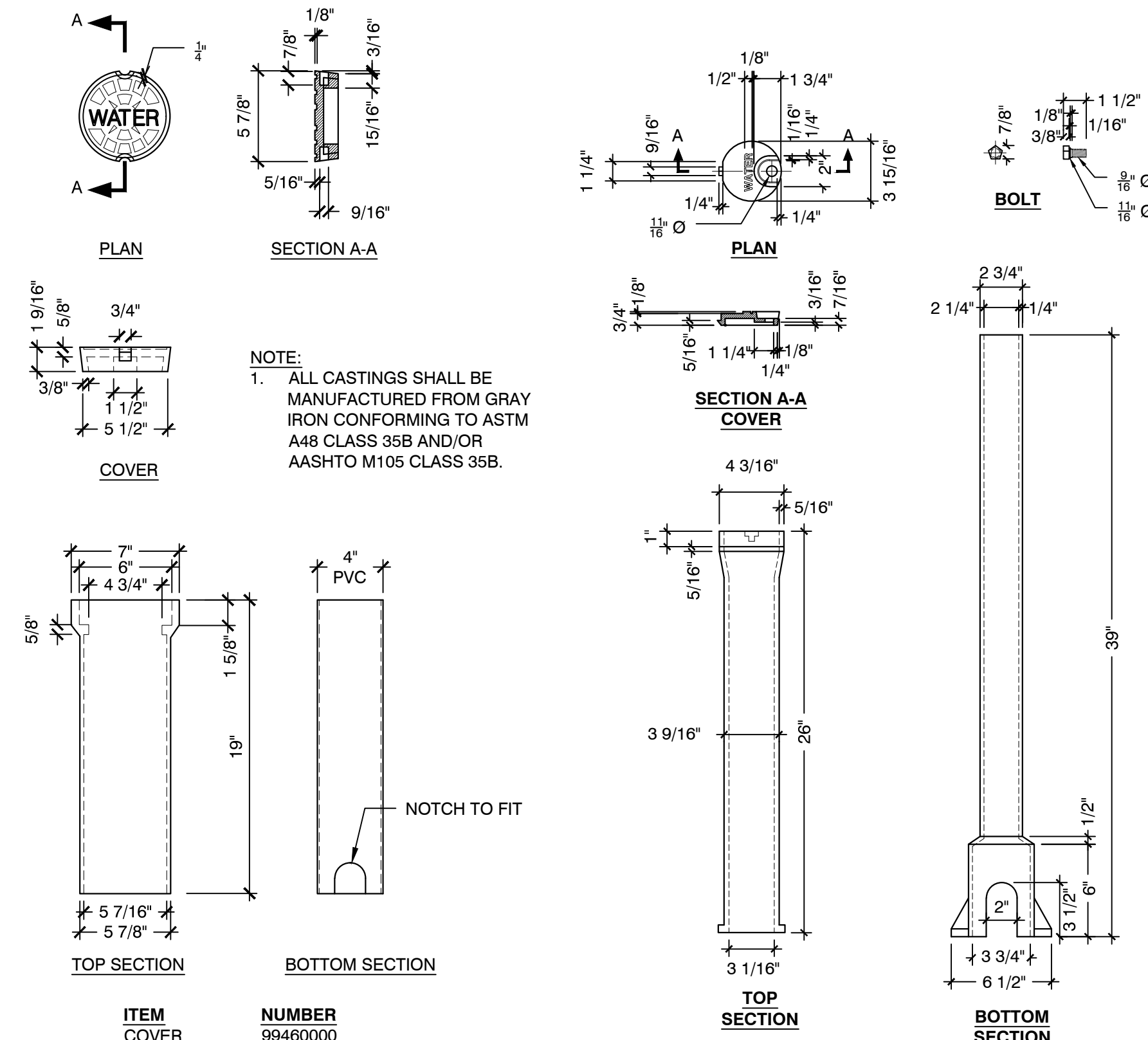


- NOTE:
1. PLACE TAPPING VALVE ON 4\"/>

4 TAPPING SLEEVE AND GATE VALVE DETAIL
NOT TO SCALE

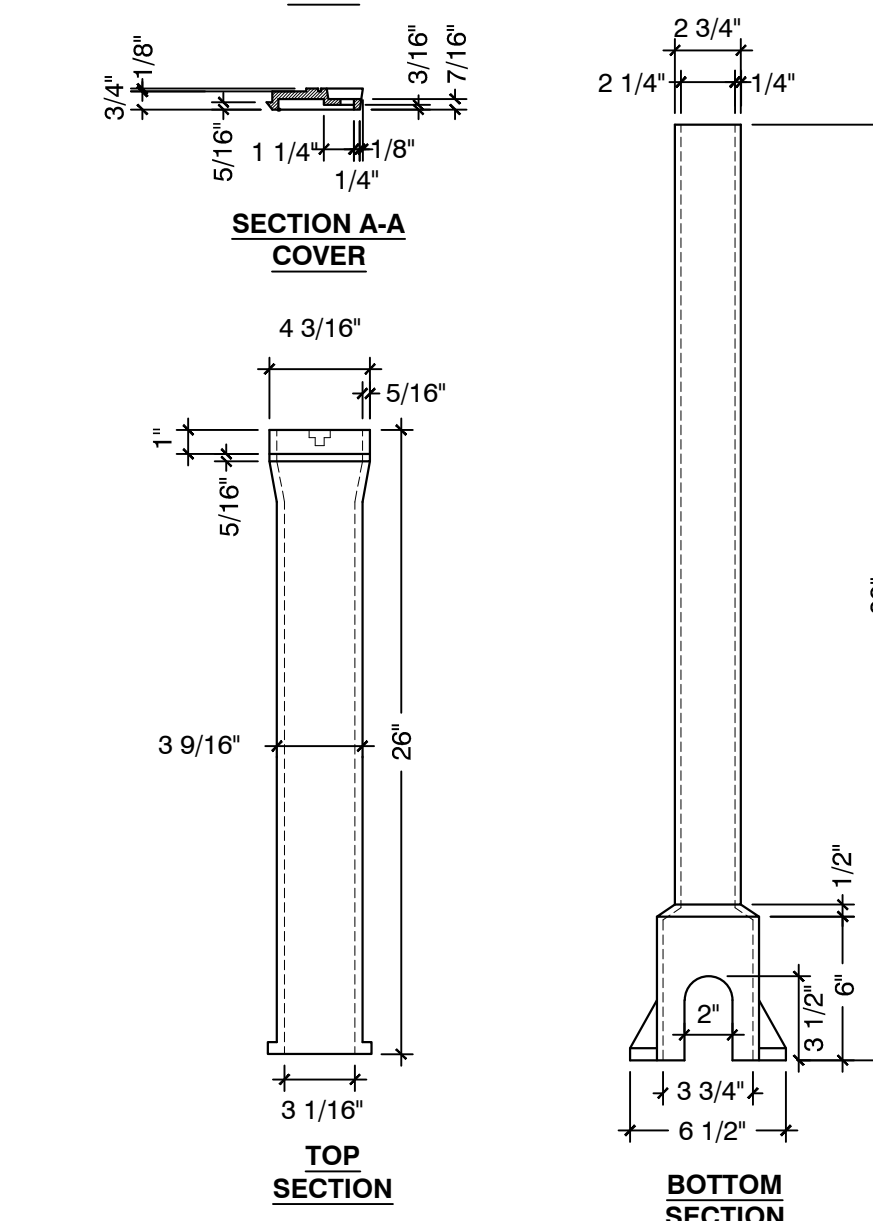


5 PIPE WINTERIZATION BLOWOUT STRUCTURE
NOT TO SCALE



- NOTE:
1. ALL CASTINGS SHALL BE MANUFACTURED FROM GRAY IRON CONFORMING TO ASTM A48 CLASS 35B AND/OR AASHTO M105 CLASS 35B.

6 WATER SERVICE ROADWAY BOX
NOT TO SCALE



ITEM	NUMBER
COVER	99602000
TOP SECTION	99602001
BOTTOM SECTION	99602002
BOLT ONLY	99602003

- NOTE:
1. ALL CASTINGS SHALL BE MANUFACTURED FROM GRAY IRON CONFORMING TO ASTM A48 CLASS 35B AND/OR AASHTO M105 CLASS 35B.

7 CURB BOX
NOT TO SCALE

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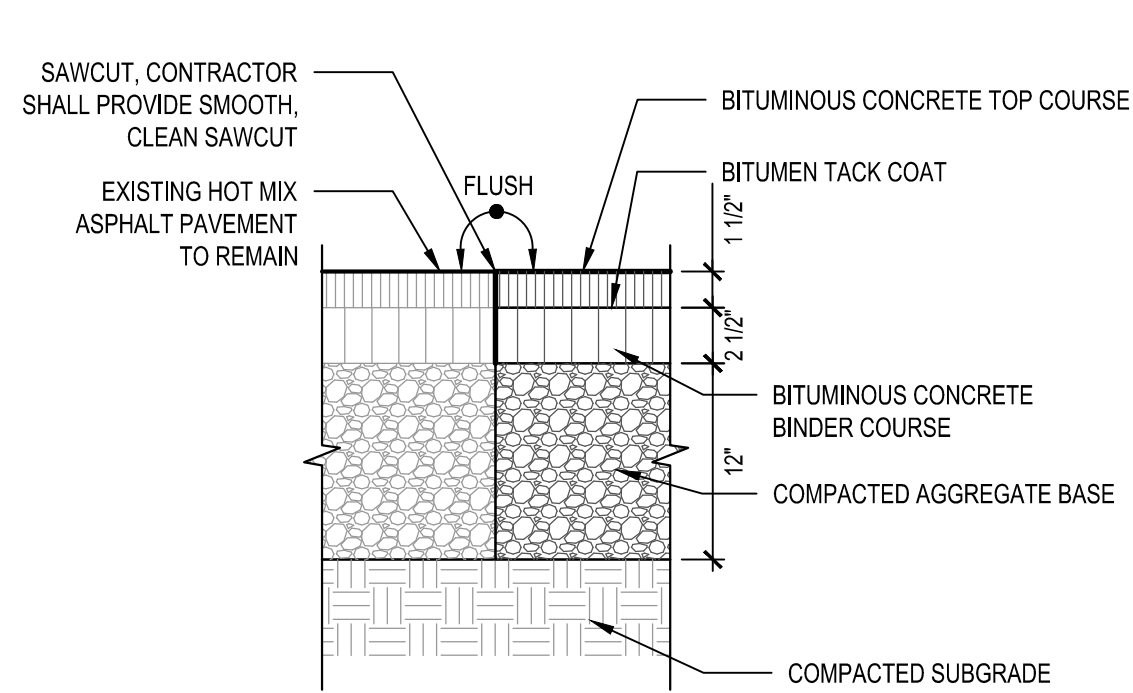
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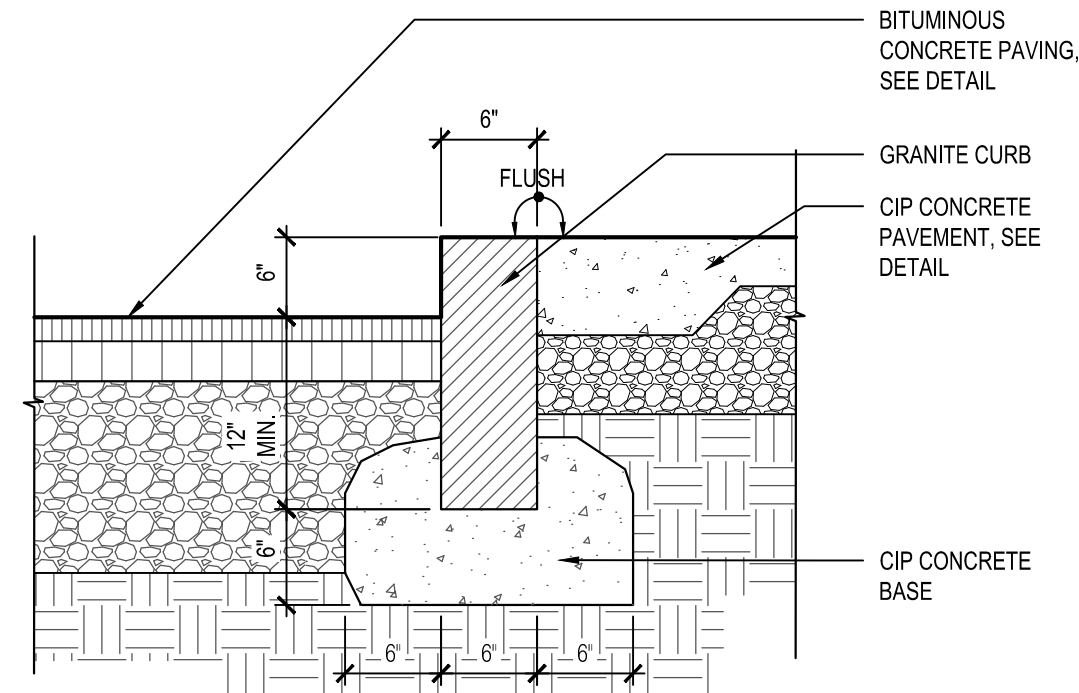
L502



- NOTES:
- CONTRACTOR TO PROVIDE SMOOTH TRANSITION WHERE NEW PAVEMENT ABUTS EXISTING PAVEMENT, TYP.
 - DENSE GRADED CRUSHED STONE TO COMPRISE OF 12" MINIMUM DEPTH.

1 HOT MIX ASPHALT PATCH

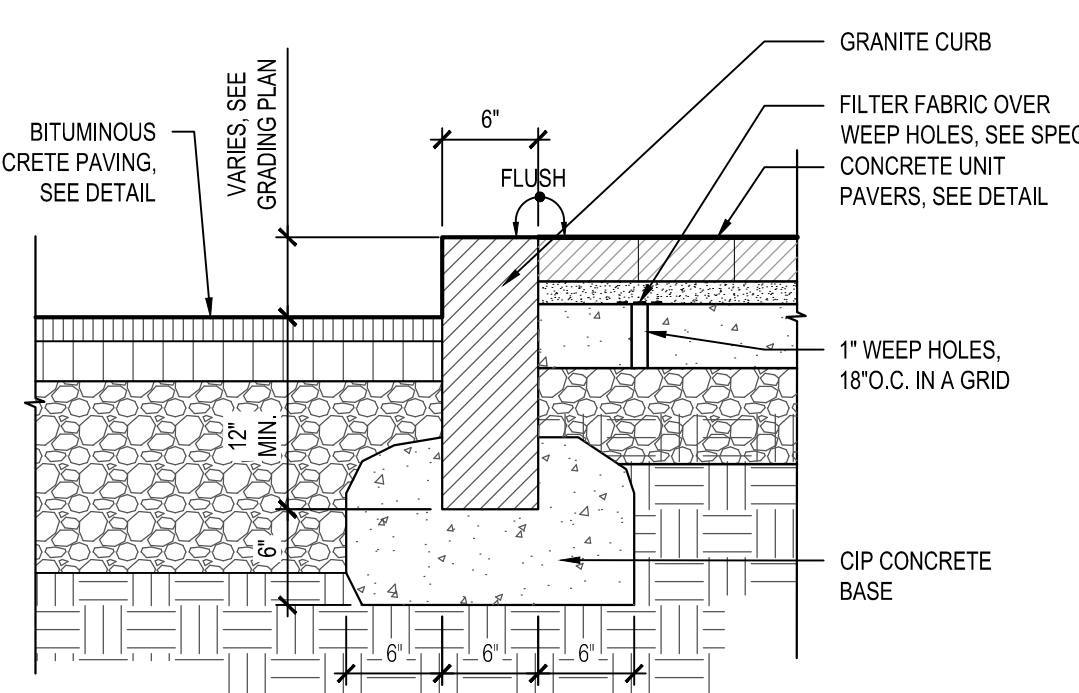
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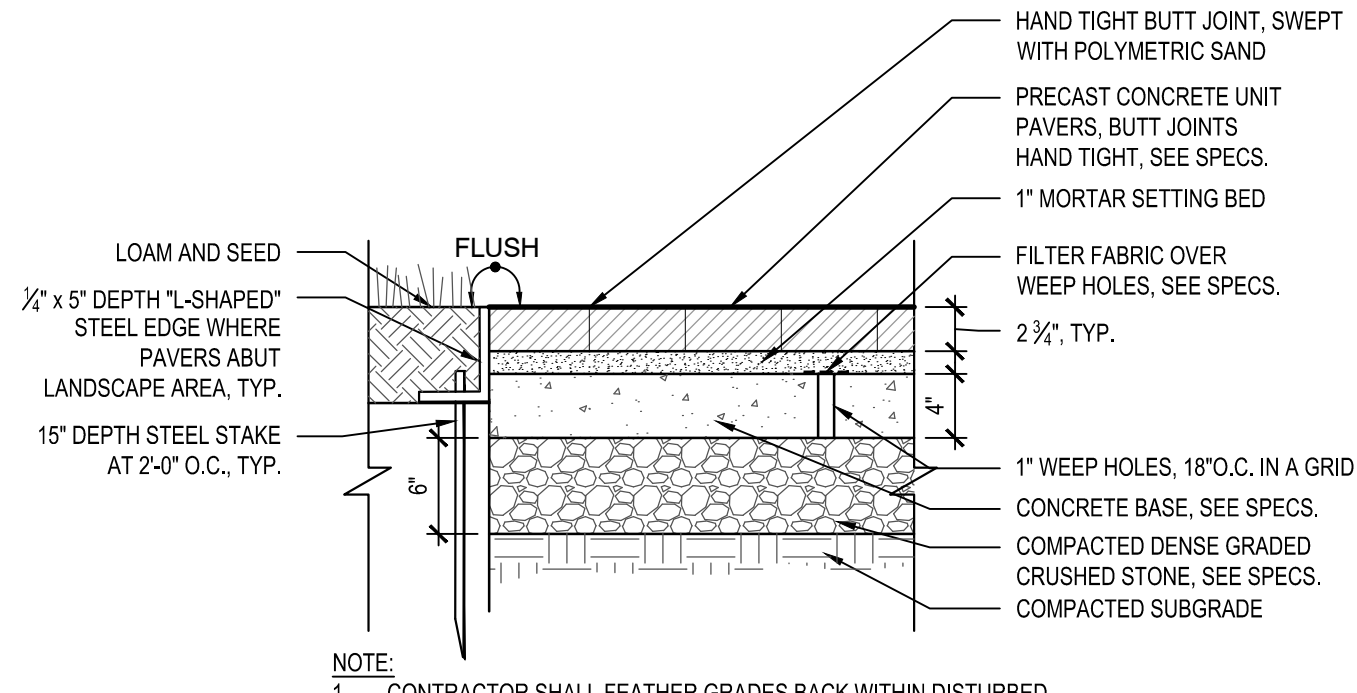
CONDITION 1 - AT CIP CONCRETE PAVEMENT

2 VERTICAL GRANITE CURB - VARIOUS CONDITIONS

NOT TO SCALE



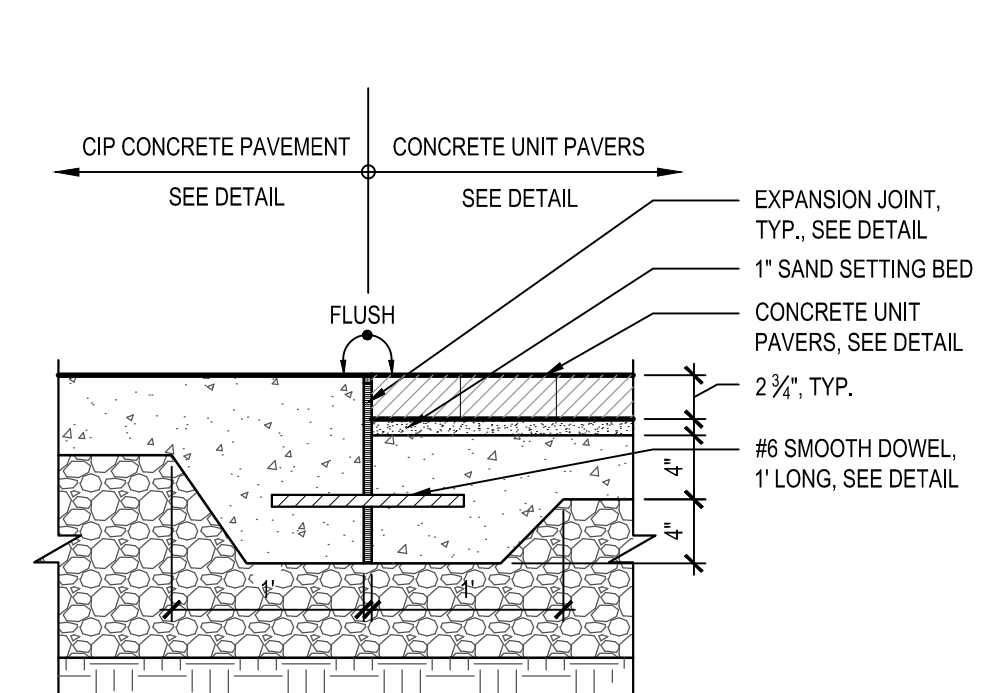
CONDITION 2 - AT CONCRETE UNIT PAVERS



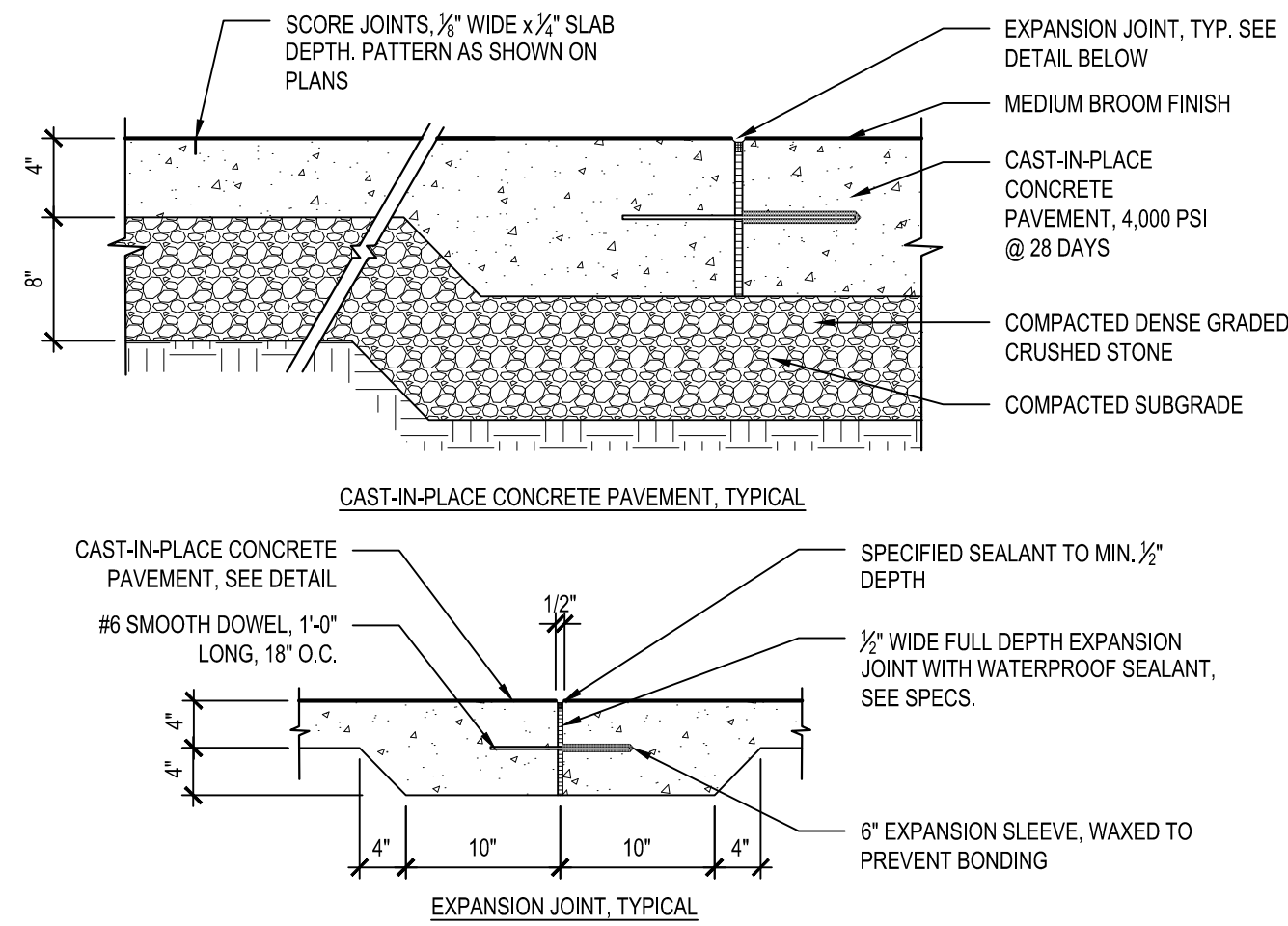
CONDITION 1 - AT LOAM AND SEED

3 CONCRETE UNIT PAVERS - VARIOUS CONDITIONS

NOT TO SCALE



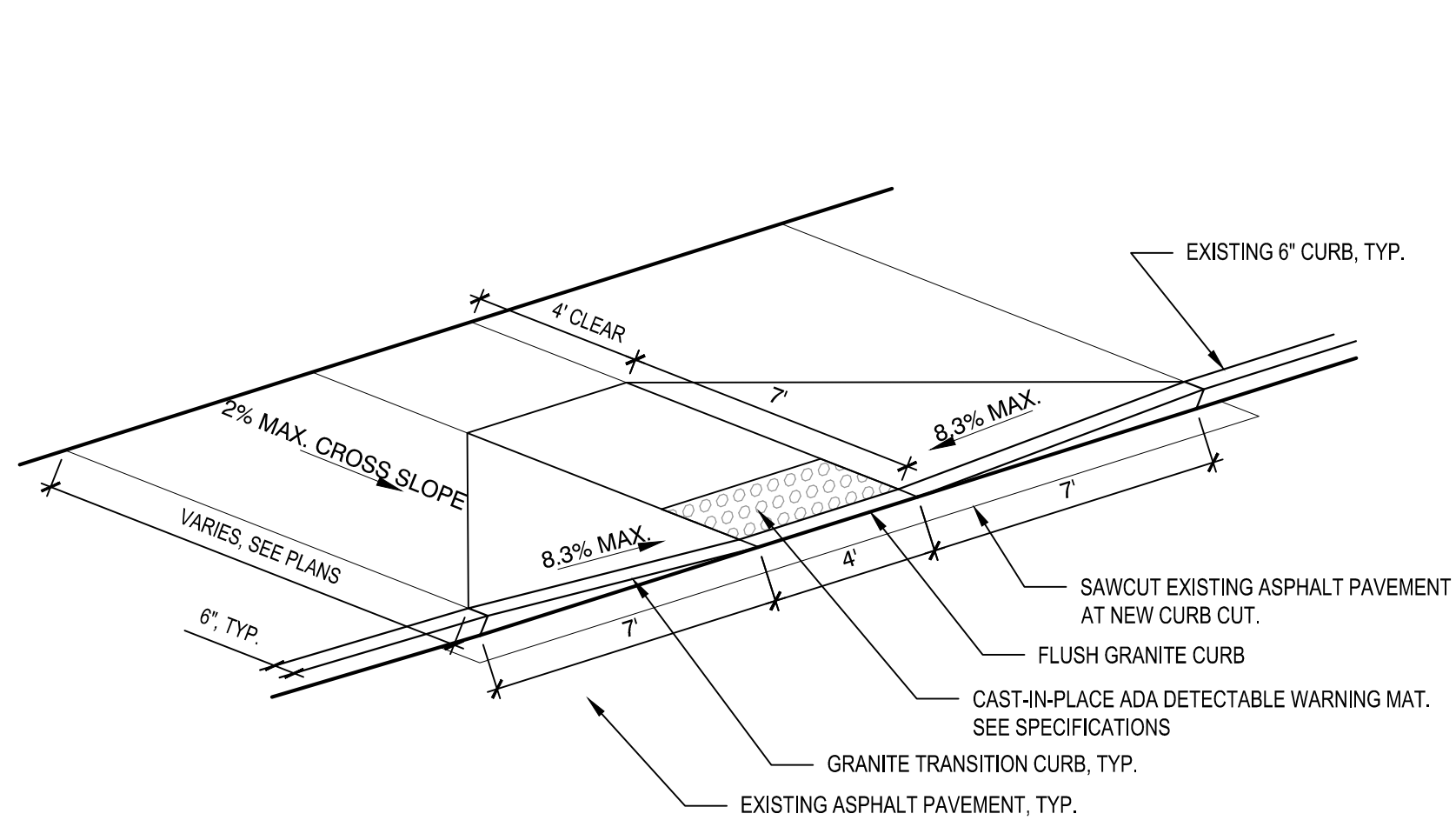
CONDITION 2 - AT CIP CONCRETE PAVEMENT



- EXPANSION JOINT INSTALLATION NOTES:
- DOWEL IS TYPICAL AT ALL EXPANSION JOINTS (18" O.C.) WITHIN CONCRETE PAVING AND BETWEEN NEW CONCRETE PAVING AND EXISTING CONCRETE PAVING TO REMAIN.
 - DELETE EXPANSION SLEEVE AND DOWEL WHERE JOINT ABUTS WALL, CURBS, OR OTHER VERTICAL SURFACES, UNLESS OTHERWISE NOTED.
 - EXPANSION JOINTS MAX. 25'-0" O.C. UNLESS SHOWN OTHERWISE.
 - EXPANSION JOINTS SHALL BE PLACED WHERE NEW CEMENT CONCRETE PAVEMENT MEETS EXISTING PAVEMENT OR WALLS TO REMAIN.
 - ALL SCORE JOINTS SHALL BE SAW CUT.
 - PATHWAYS THAT CALL TO BE STAMPED SHALL BE INSTALLED WITH INTEGRALLY-COLORED A SEASHELL CONCRETE AND STAMPED WITH PATTERN. SEE SPECIFICATIONS FOR DETAILS ON THE PATTERN AND INTEGRAL COLOR ADDITIVE.
 - FOR DETAILS CALLED OUT AS 'INTEGRAL' REFER TO SPECS.

4 CAST-IN-PLACE CONCRETE PAVEMENT AND EXPANSION JOINT

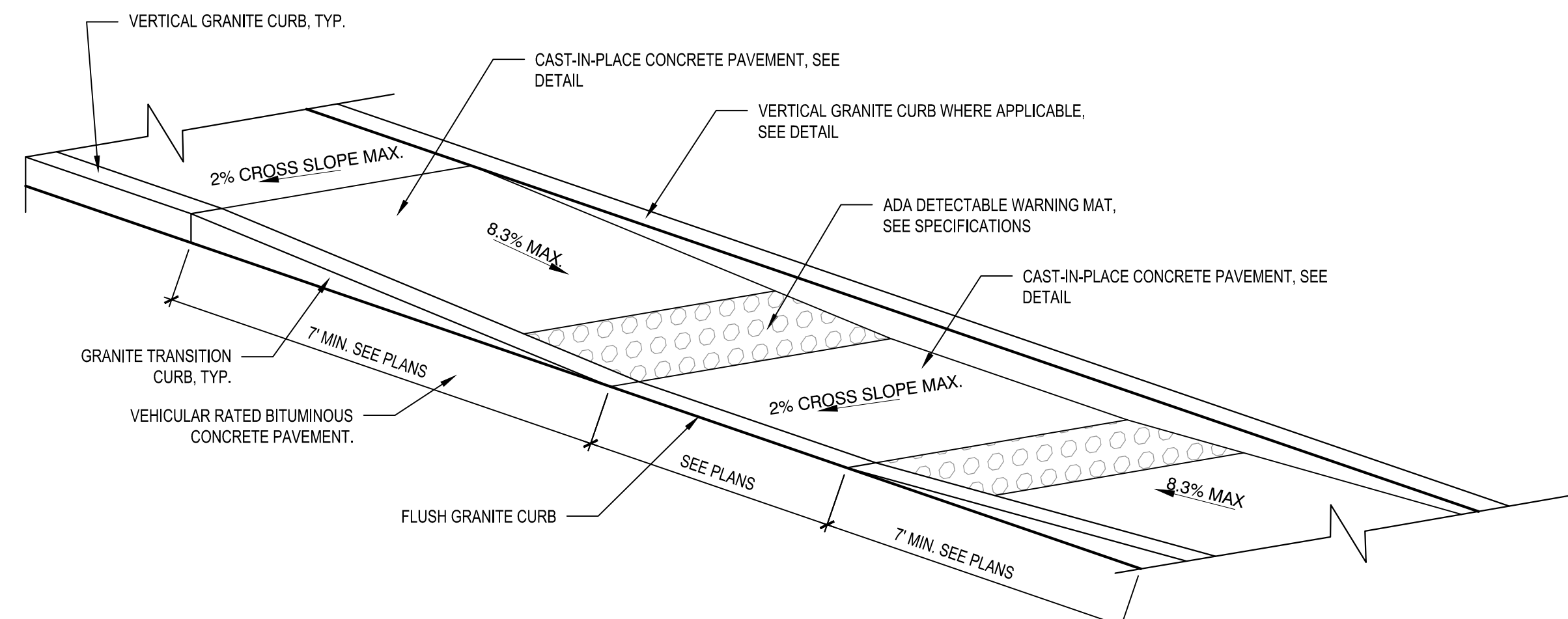
NOT TO SCALE



- NOTES:
- CONTRACTOR SHALL PROVIDE CLEAN AND STRAIGHT SAWCUT LINES AT LIMIT OF REMOVAL OF EXISTING ASPHALT PAVEMENT TO REMAIN. CONTRACTOR SHALL VERIFY LIMITS OF EXISTING ASPHALT PAVEMENT REMOVAL PRIOR TO COMMENCING DEMOLITION.
 - CONTRACTOR SHALL REMOVE AND REPLACE ASPHALT PAVEMENT, GRAVEL BORROW, AND SUBGRADE NECESSARY TO CONSTRUCT A CLEAN, SMOOTH TRANSITION AT ADA CURB CUT.

5 ADA CURB CUT, TYPE A

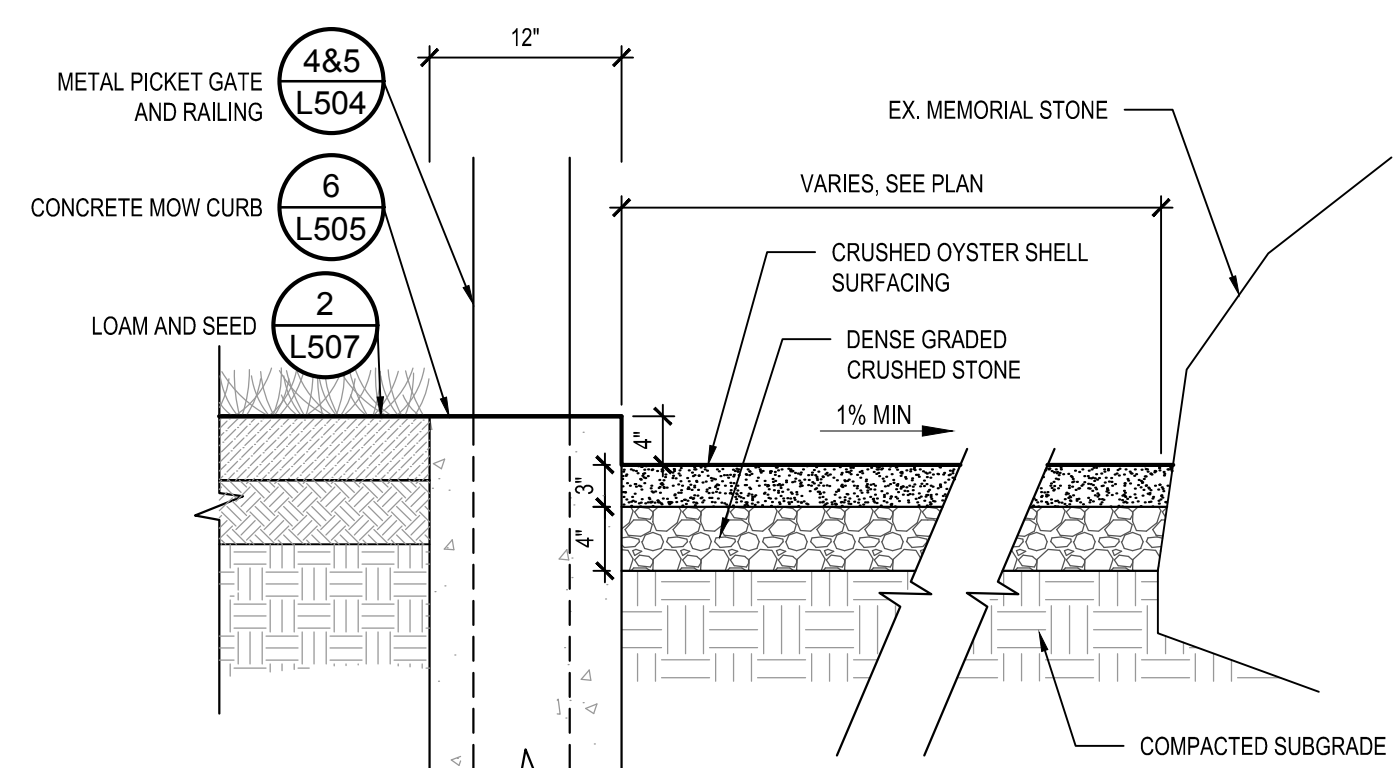
NOT TO SCALE



- NOTES:
- CONTRACTOR SHALL PROVIDE CLEAN AND STRAIGHT SAWCUT LINES AT LIMIT OF REMOVAL OF EXISTING ASPHALT PAVEMENT TO REMAIN. CONTRACTOR SHALL VERIFY LIMITS OF EXISTING ASPHALT PAVEMENT REMOVAL PRIOR TO COMMENCING DEMOLITION.
 - CONTRACTOR SHALL REMOVE AND REPLACE ASPHALT PAVEMENT, GRAVEL BORROW, AND SUBGRADE NECESSARY TO CONSTRUCT A CLEAN, SMOOTH TRANSITION AT ADA CURB CUT.

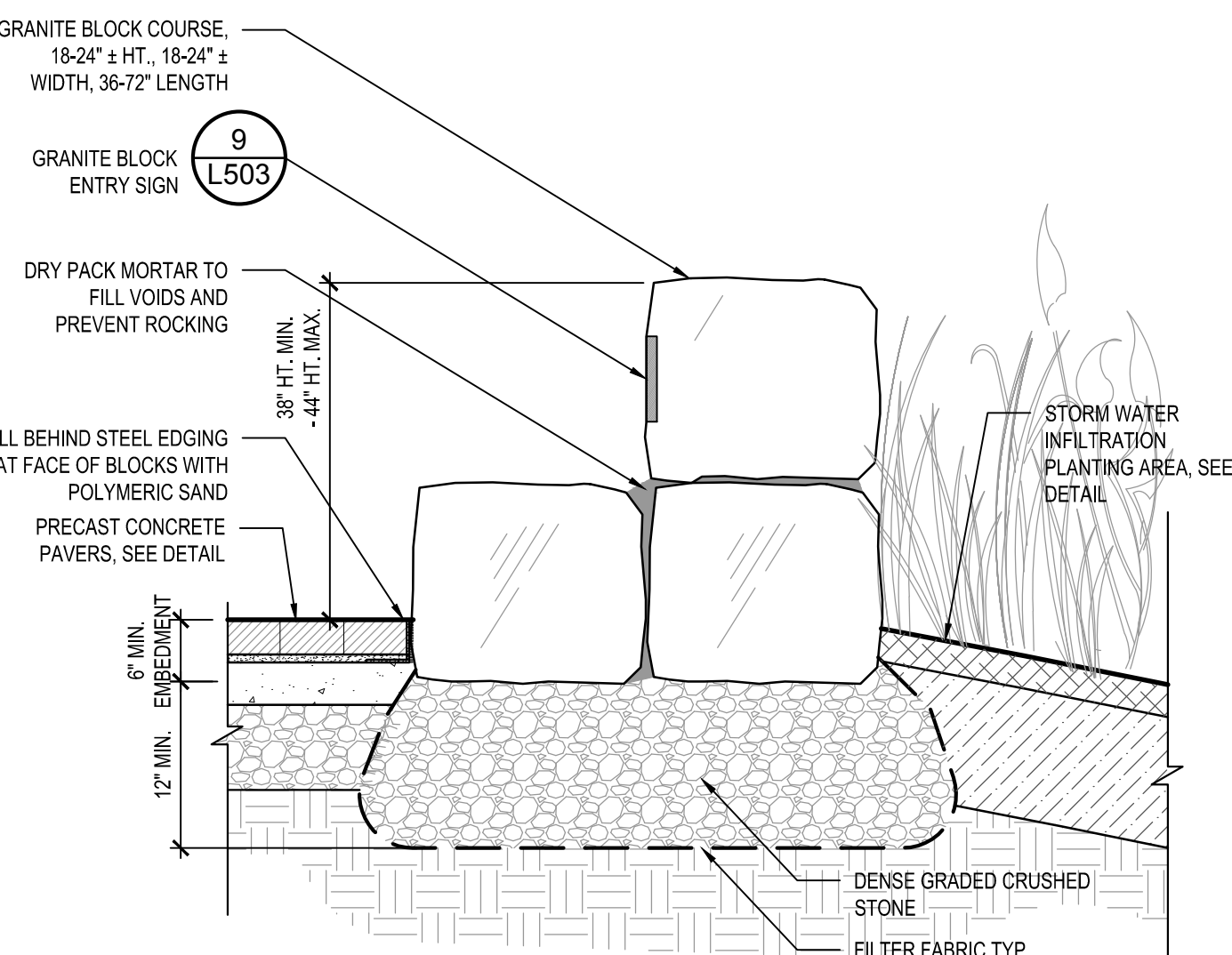
6 ADA CURB CUT TYPE B

NOT TO SCALE



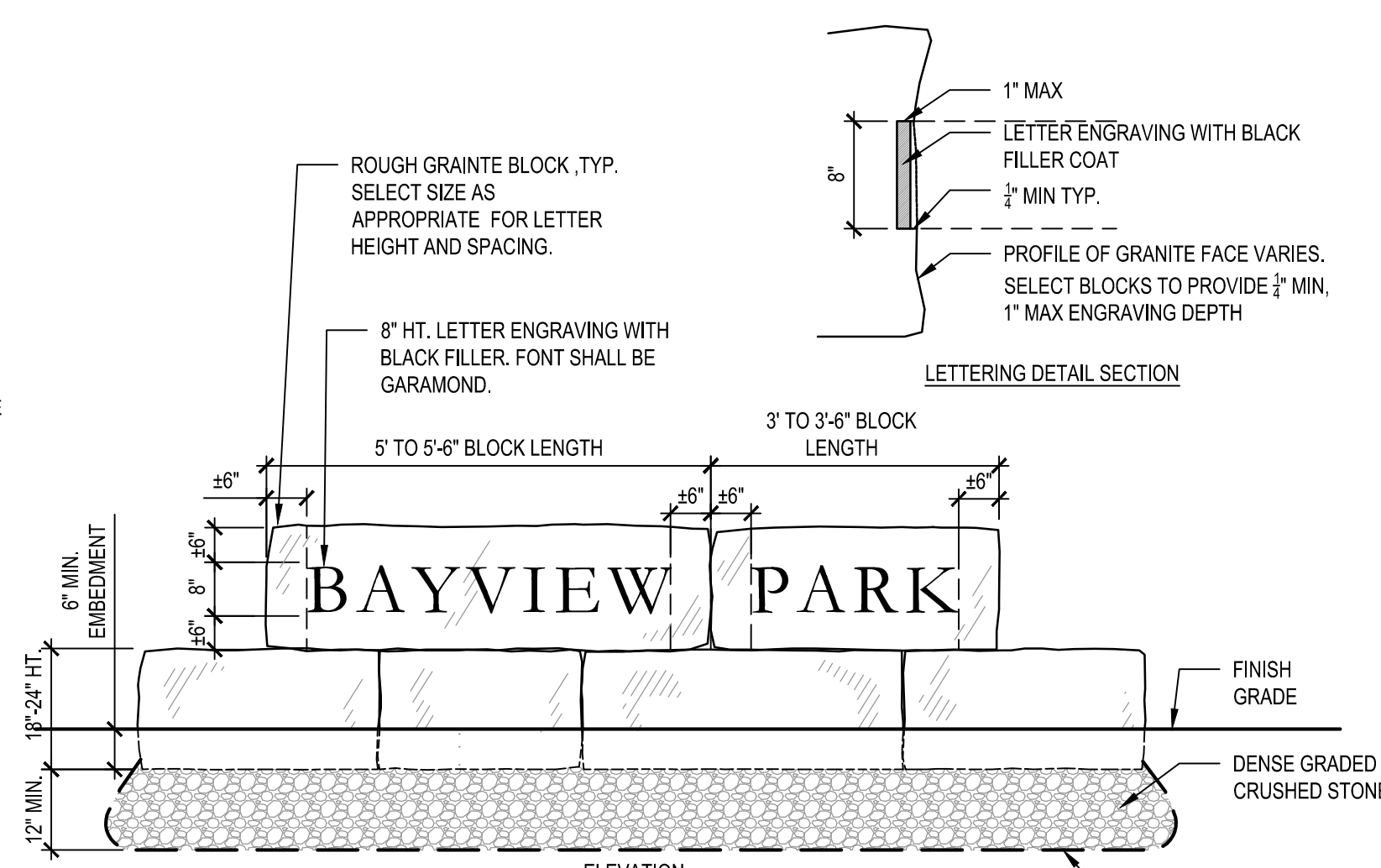
7 STABILIZED CRUSHED OYSTER SHELL PAVEMENT

NOT TO SCALE



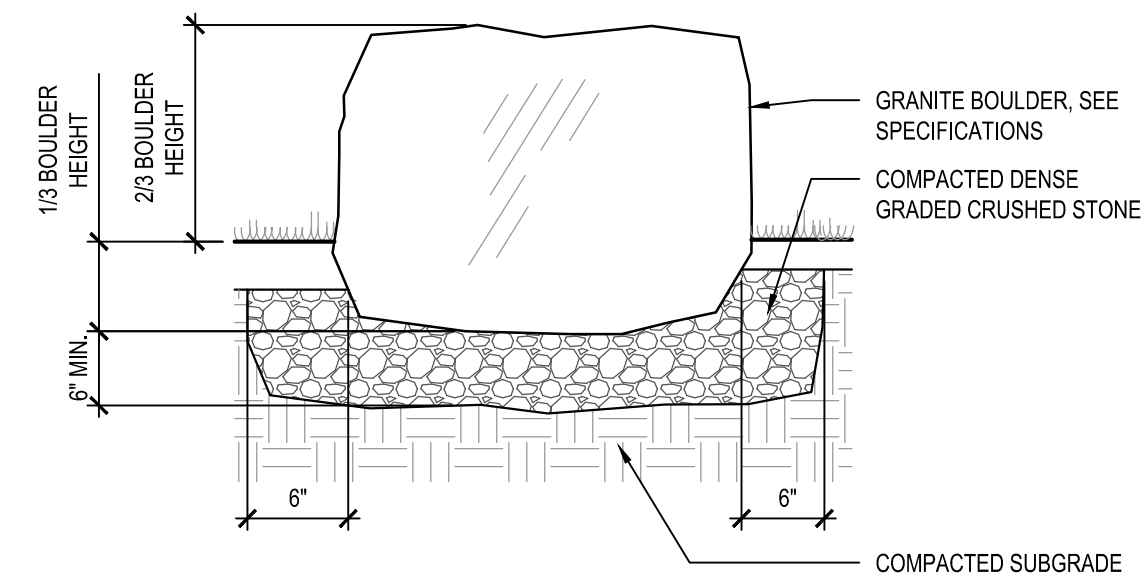
8 FREESTANDING GRANITE BLOCK WALL

NOT TO SCALE



9 GRANITE BLOCK ENTRY SIGN

NOT TO SCALE



- NOTES:
- BOULDER SHALL BE BURIED SUCH THAT THE WIDEST CIRCUMFERENCE OF THE BOULDER SITS AT SURROUNDING FINISH GRADE.
 - FINAL PLACEMENT OF BOULDER SHALL BE COORDINATED BY THE LANDSCAPE ARCHITECT IN THE FIELD.

10 GRANITE BOULDER

NOT TO SCALE

Project:
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BAYVIEW PARK

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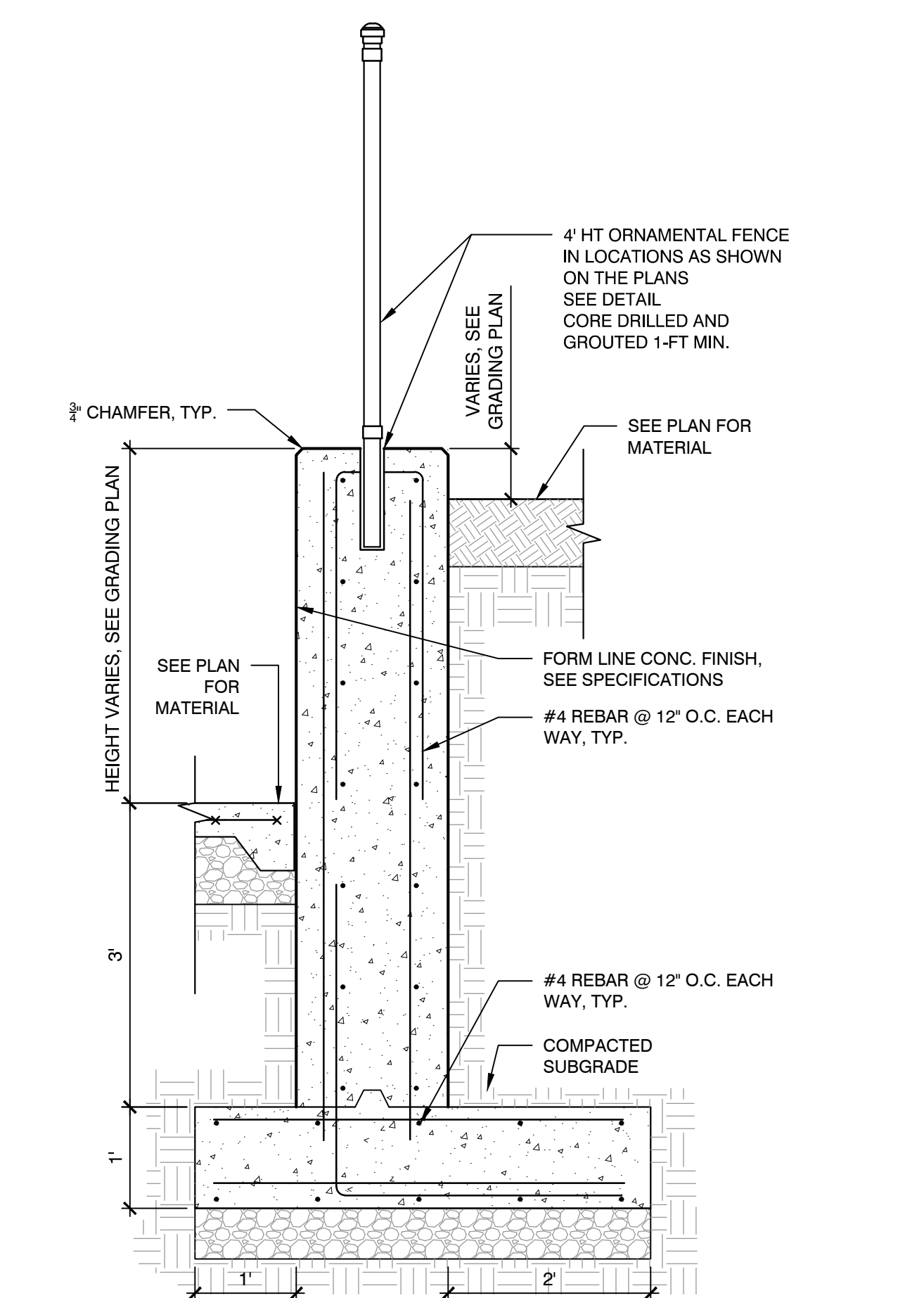
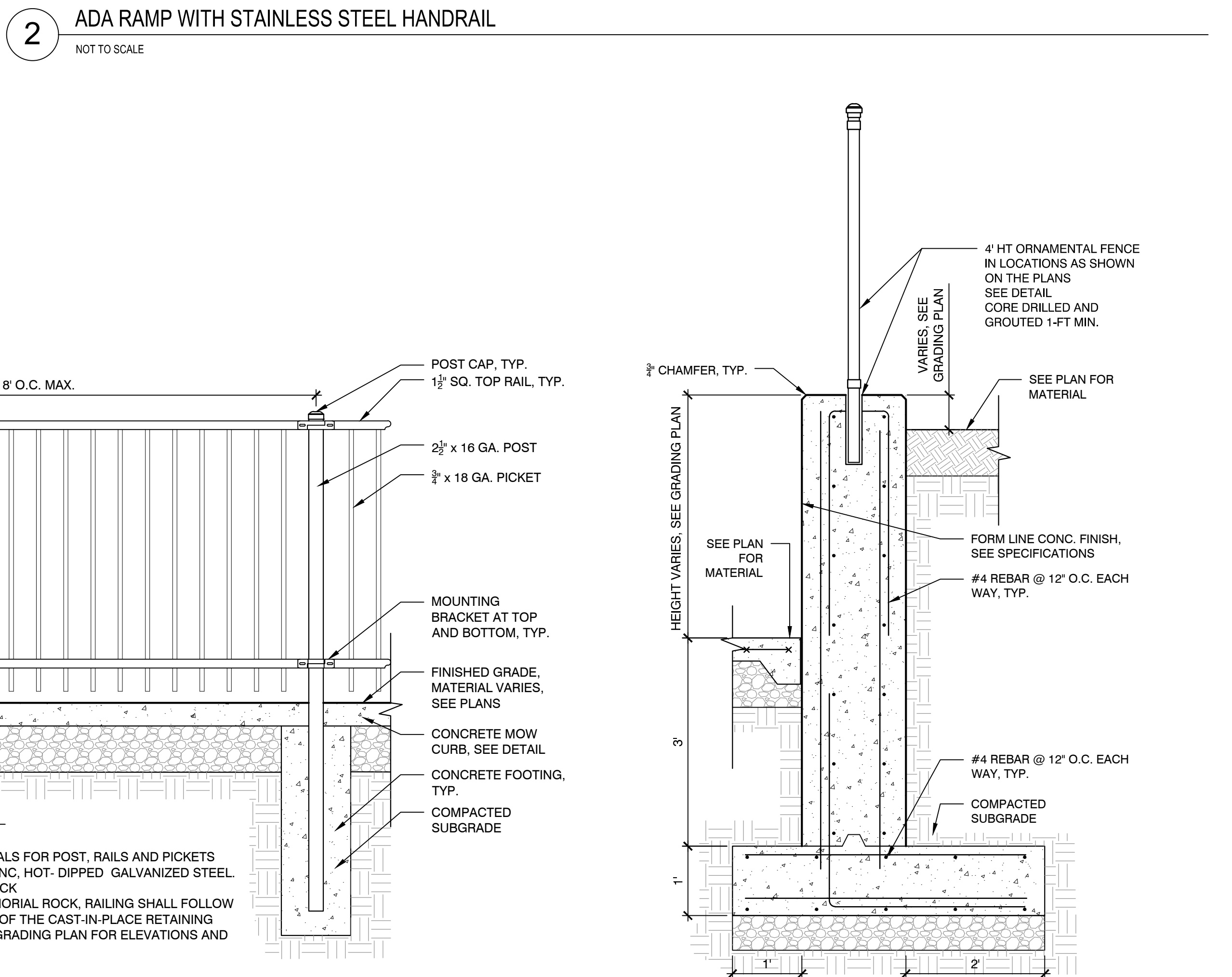
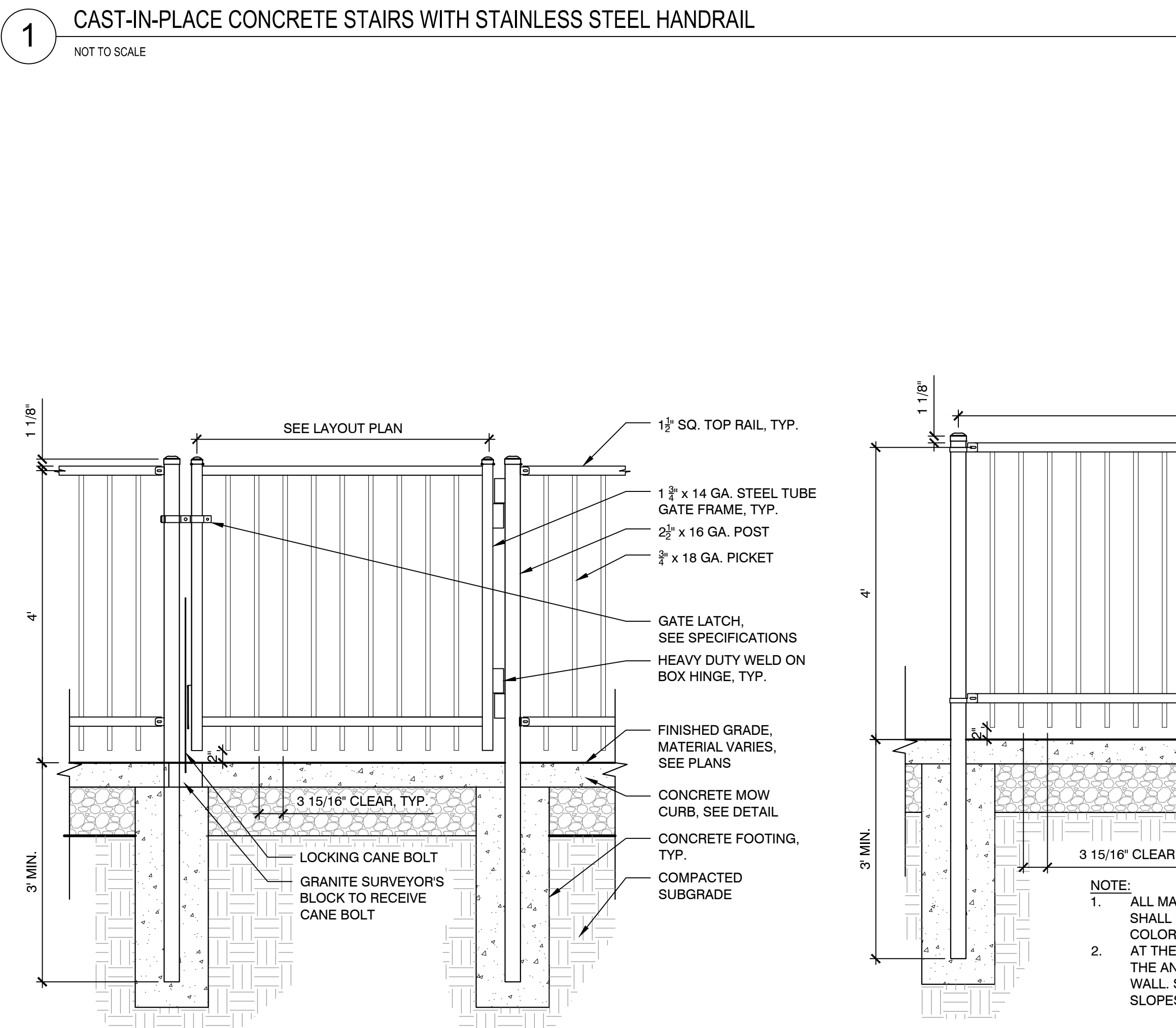
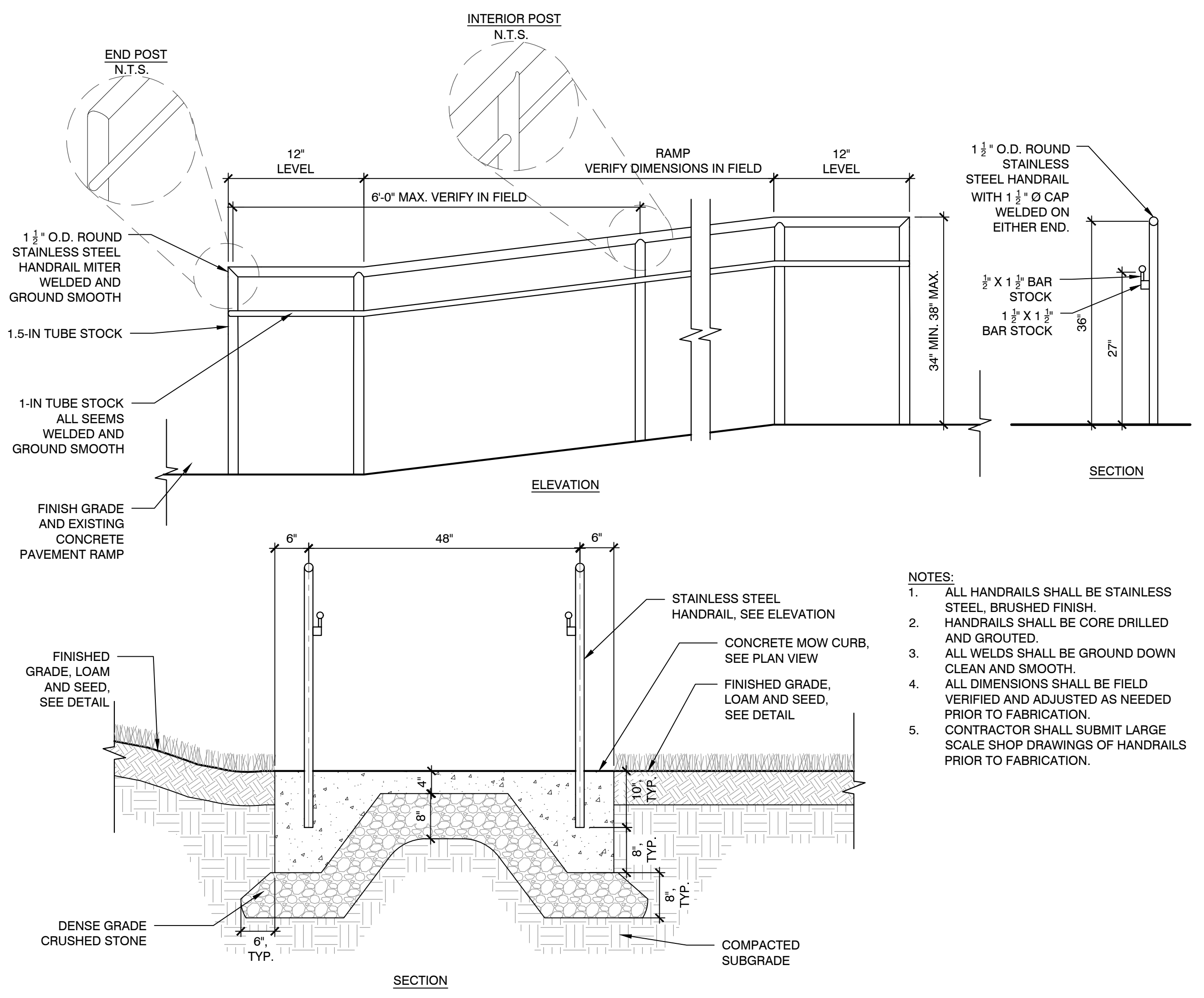
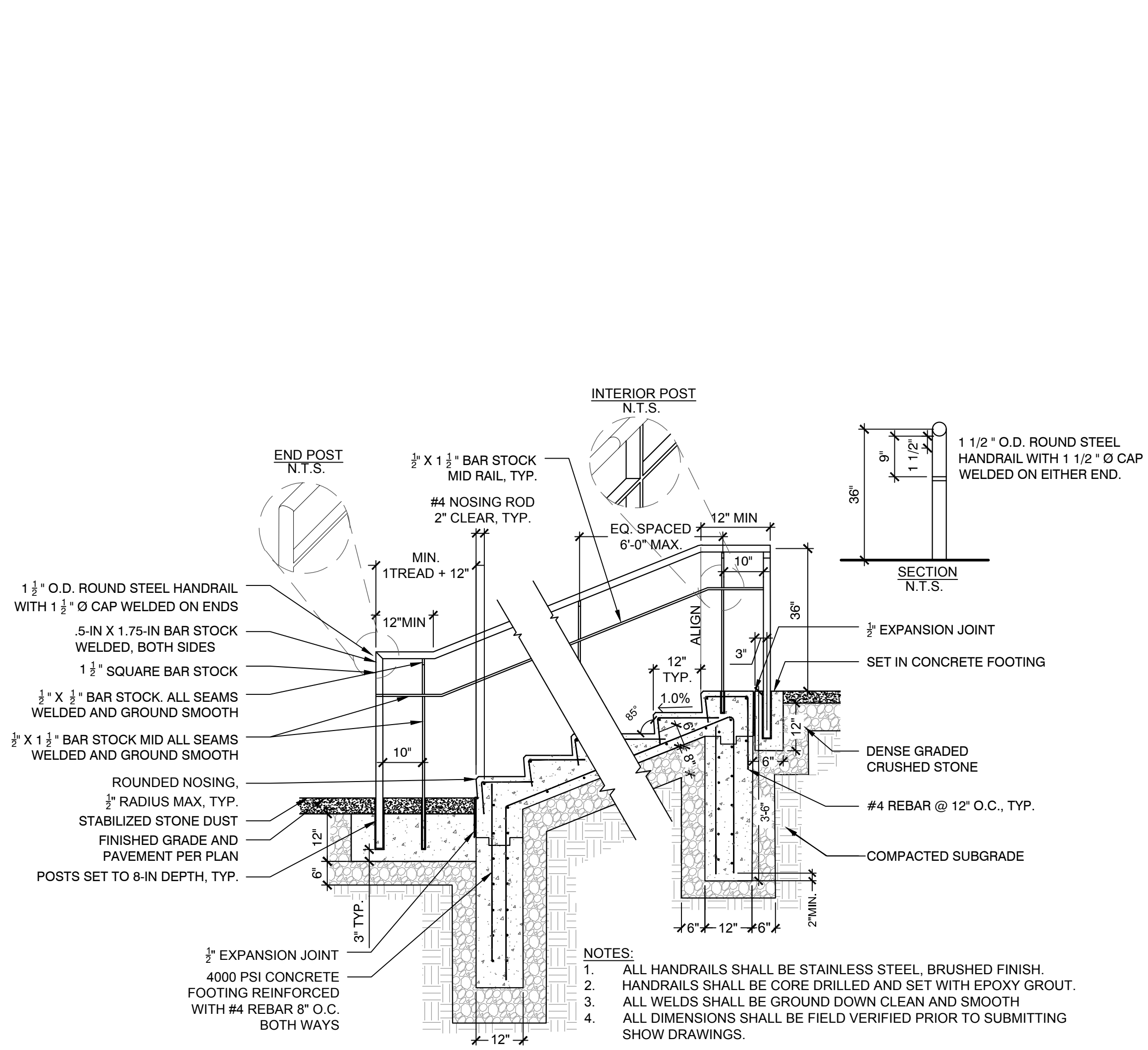
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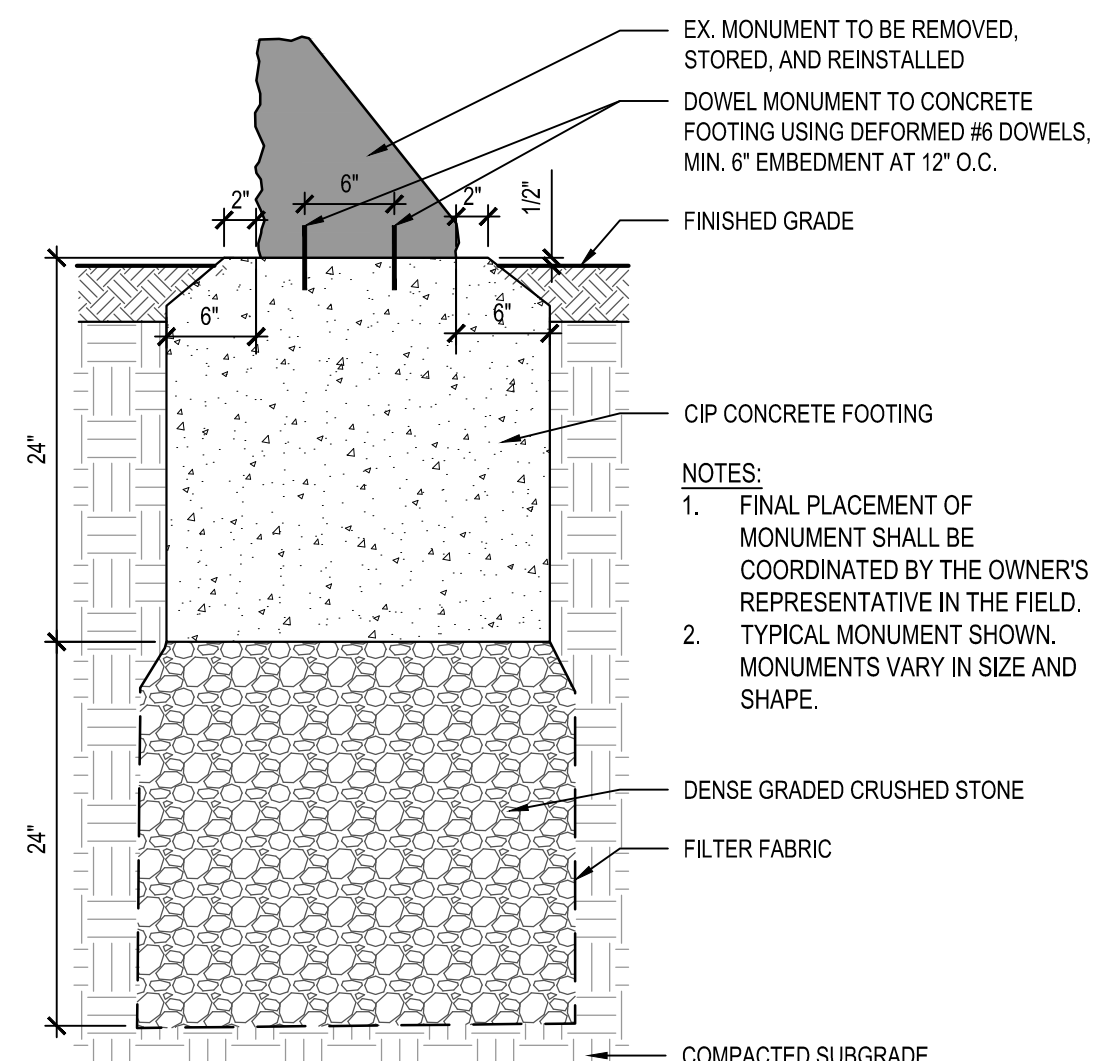
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**CONSTRUCTION
DETAILS**

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L503

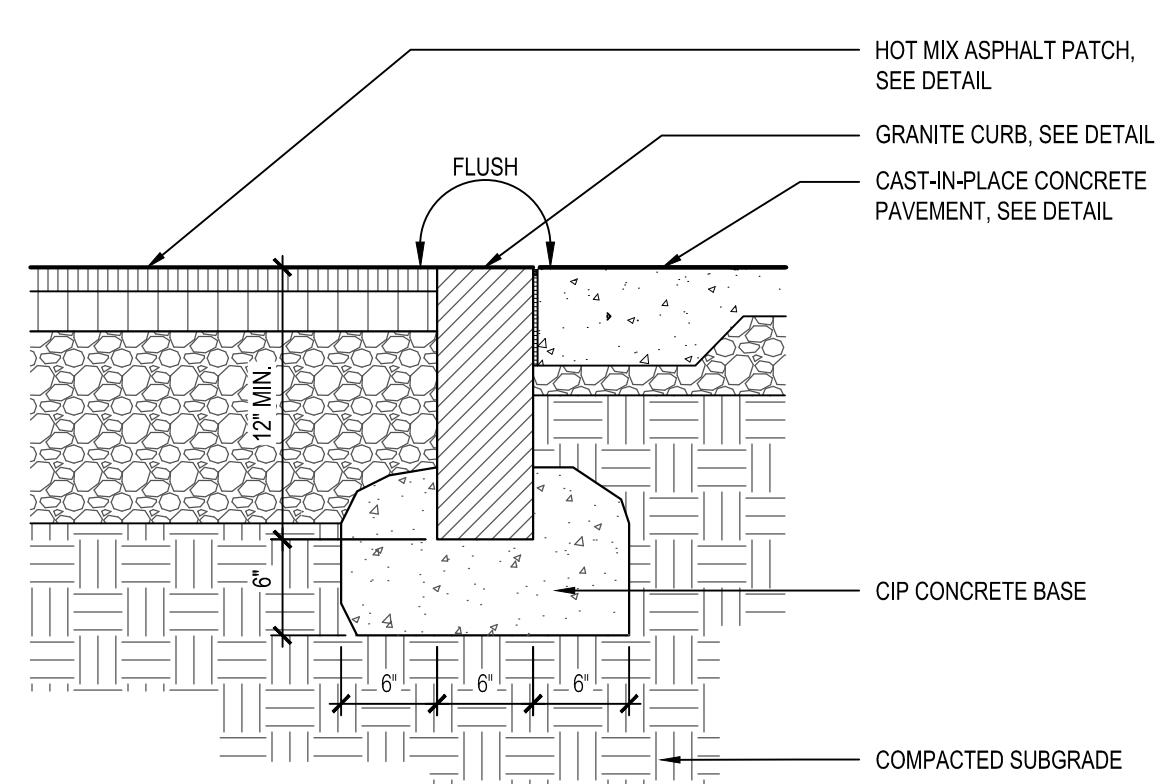
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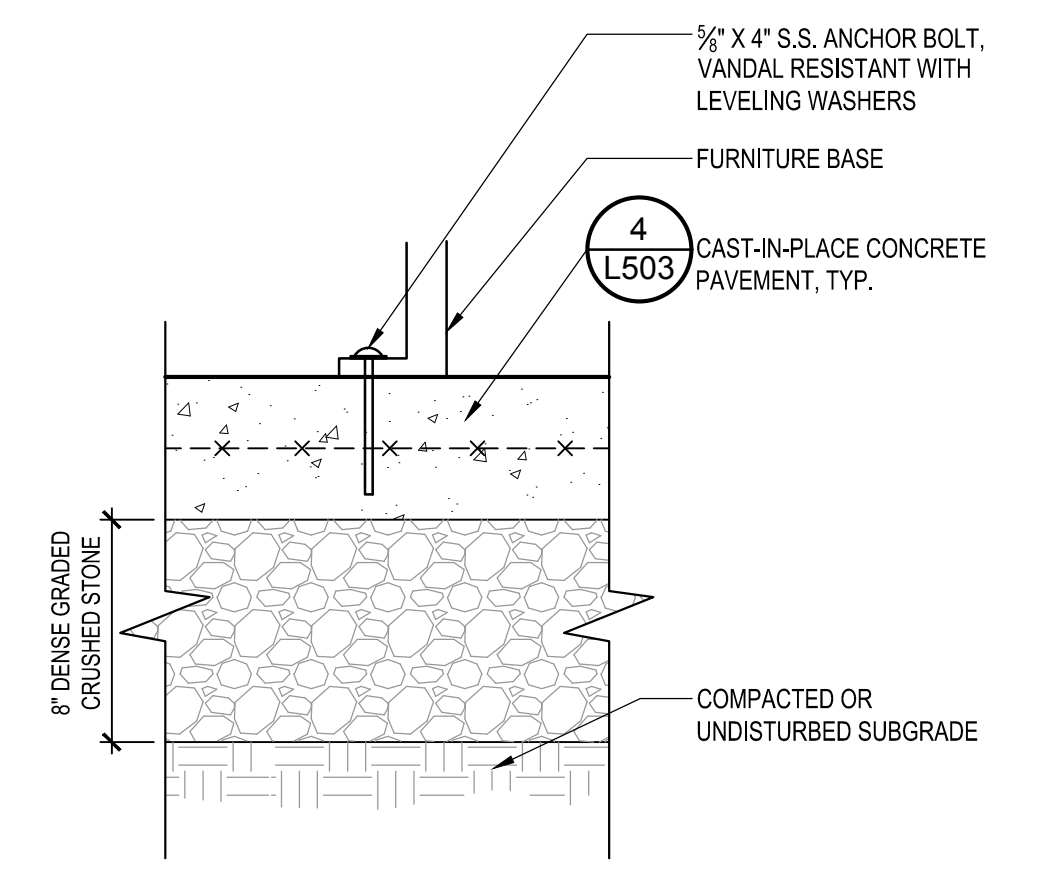




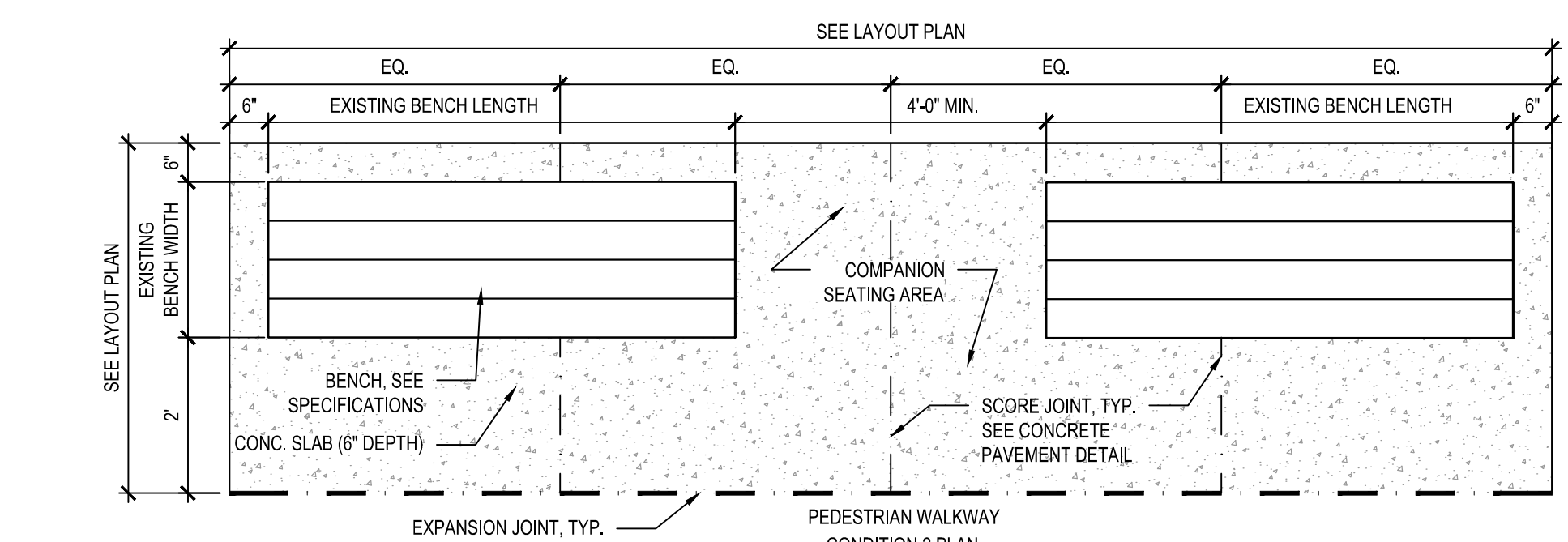
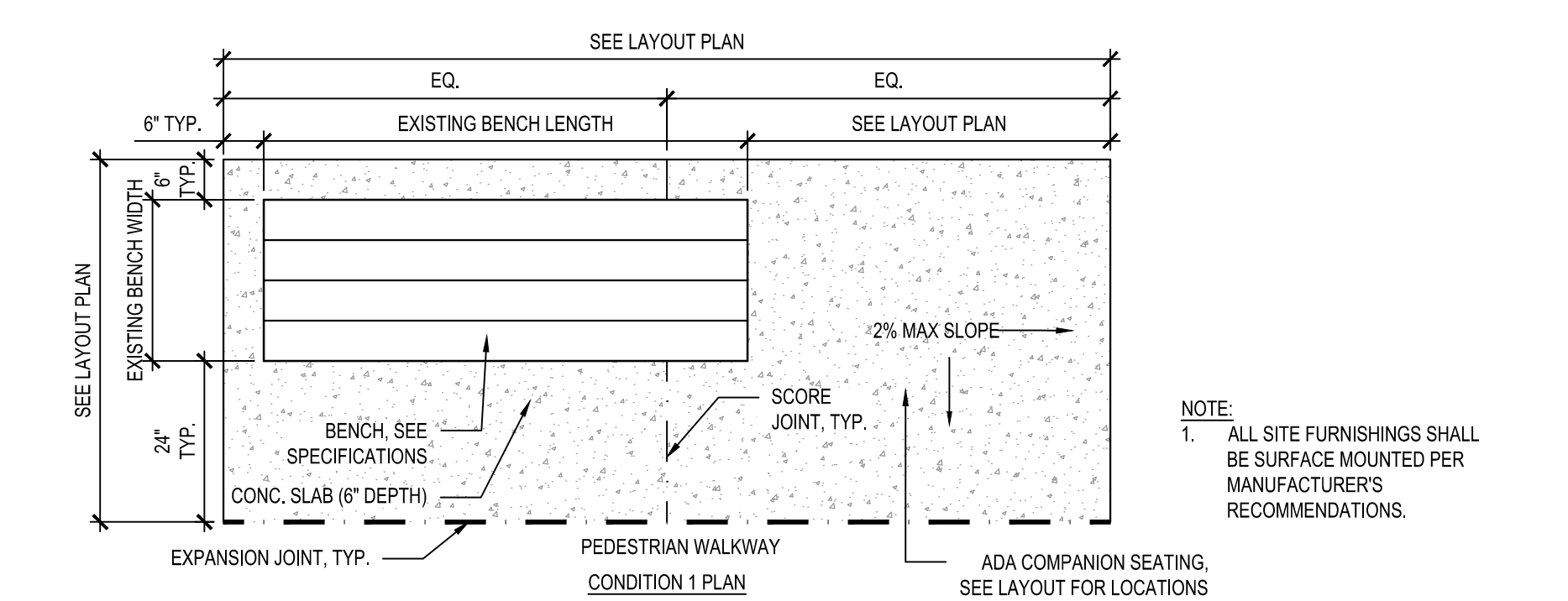
1 SALVAGED AND RELOCATED EXISTING MONUMENT
NOT TO SCALE



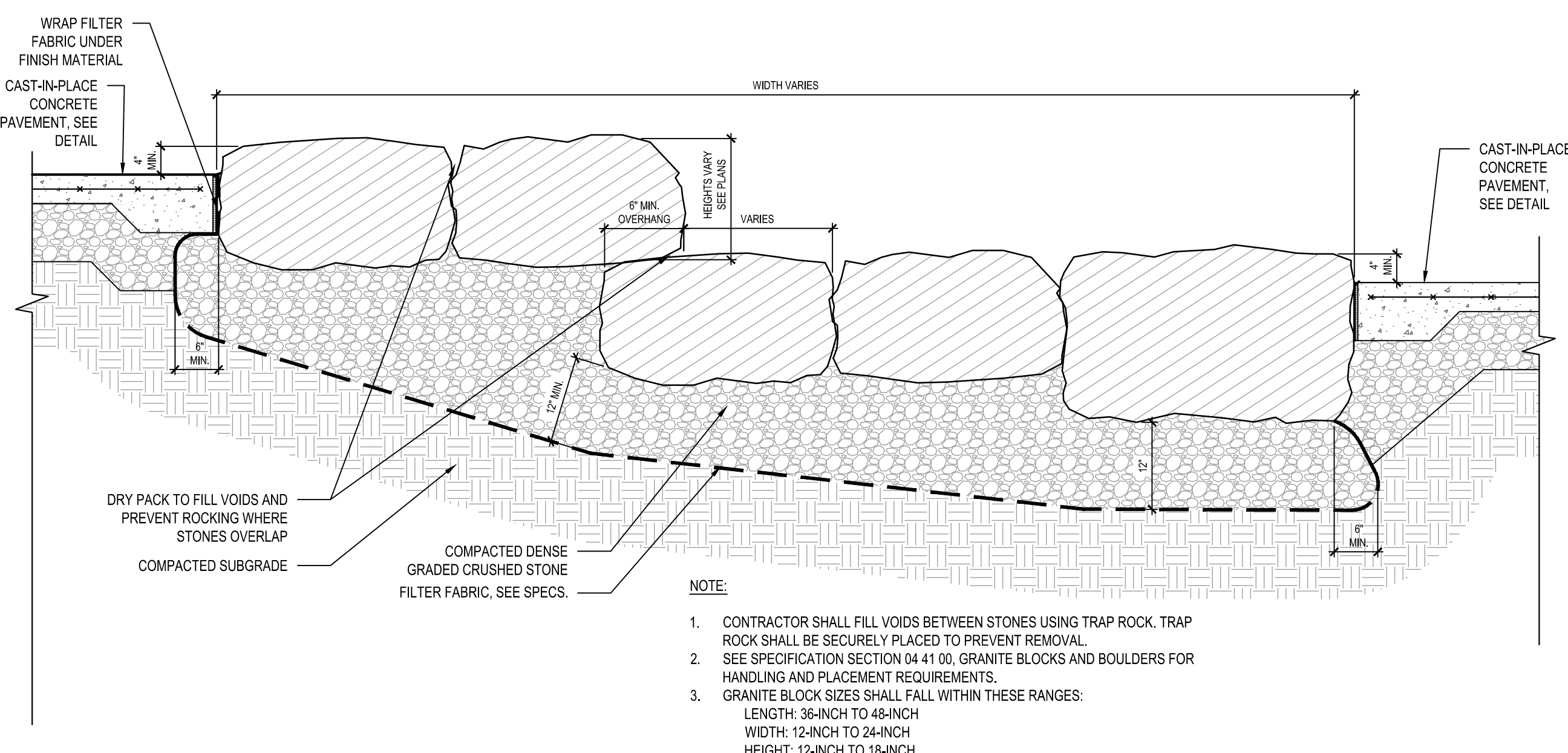
2 FLUSH GRANITE CURB
NOT TO SCALE



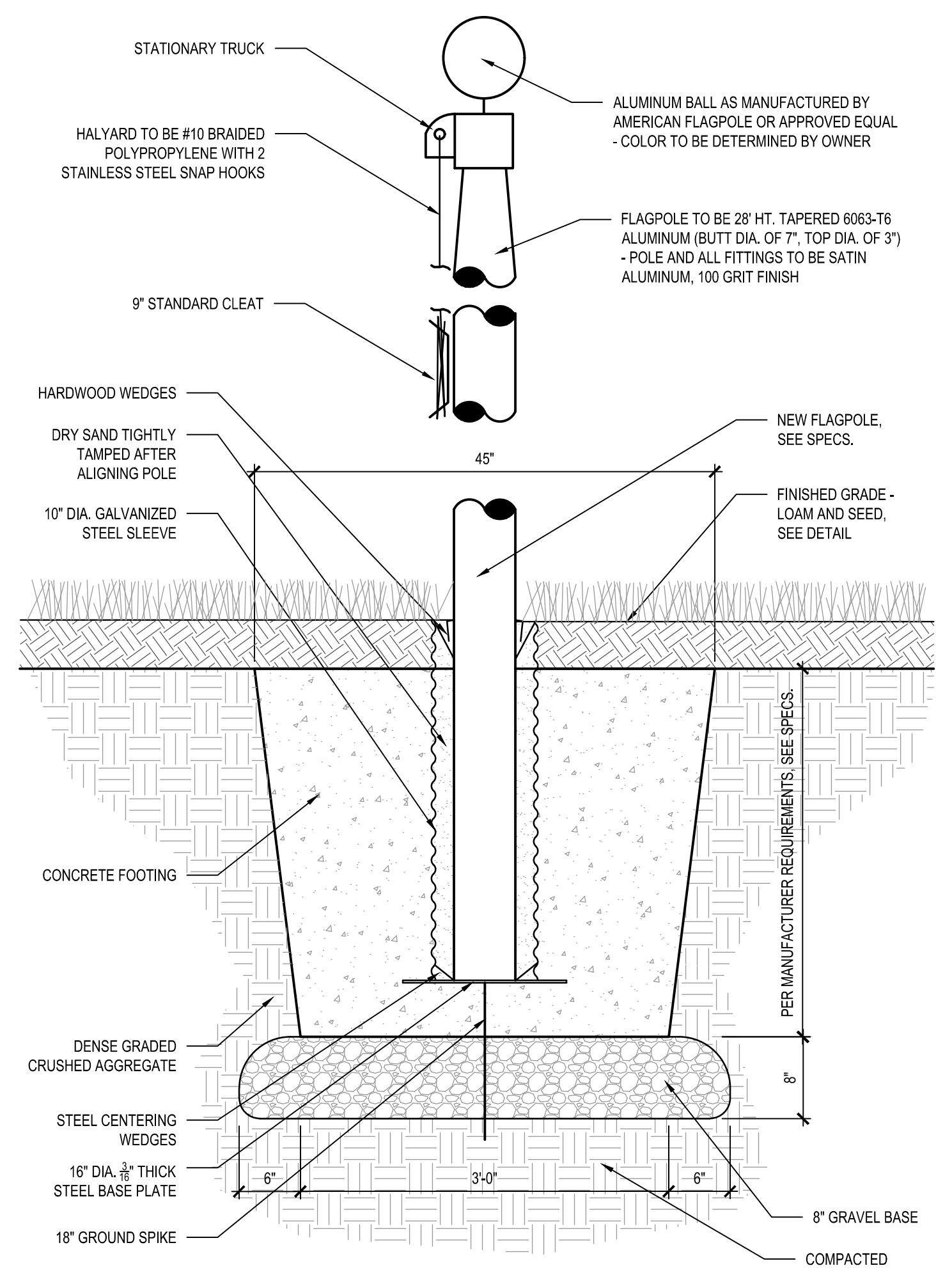
3 BIKE RACK SURFACE MOUNT
NOT TO SCALE



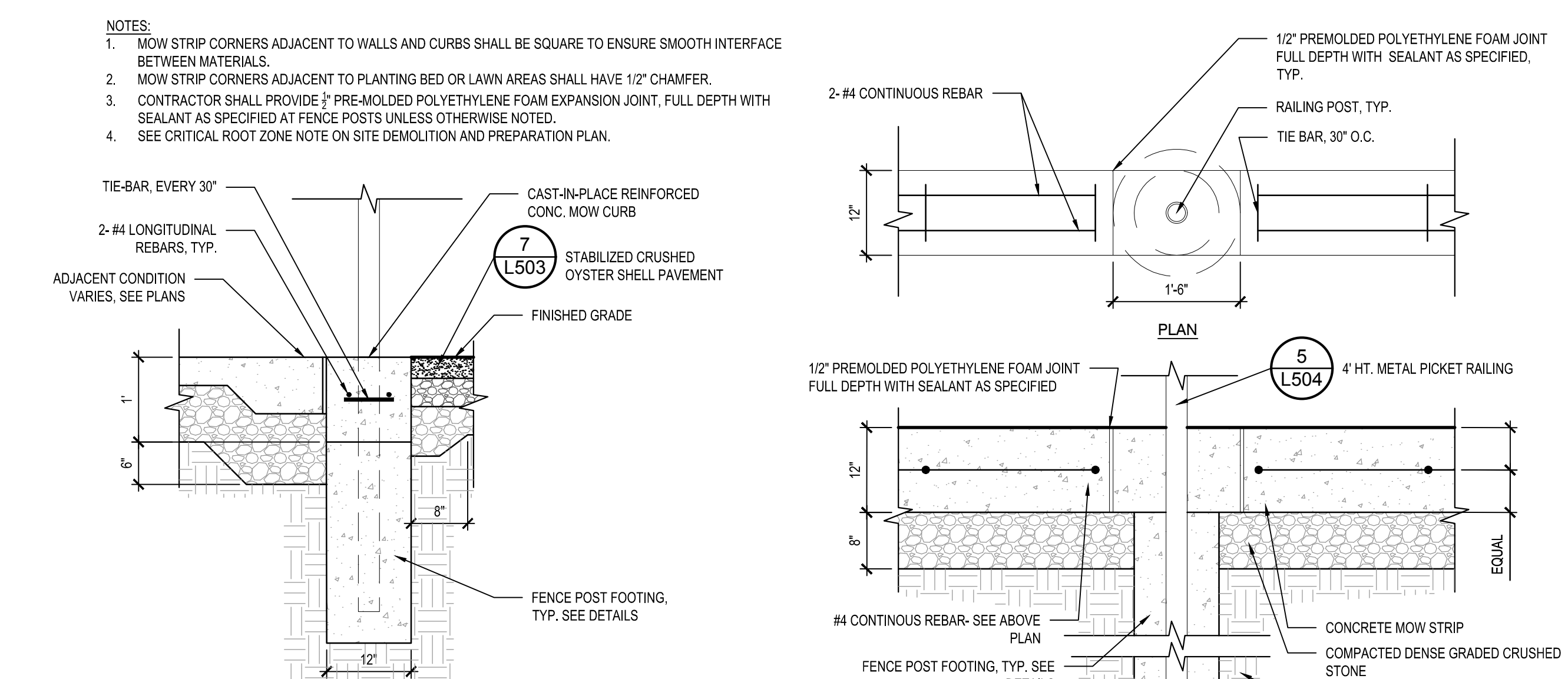
4 EXISTING BENCH, REINSTALLED ON CIP CONCRETE PAD
NOT TO SCALE



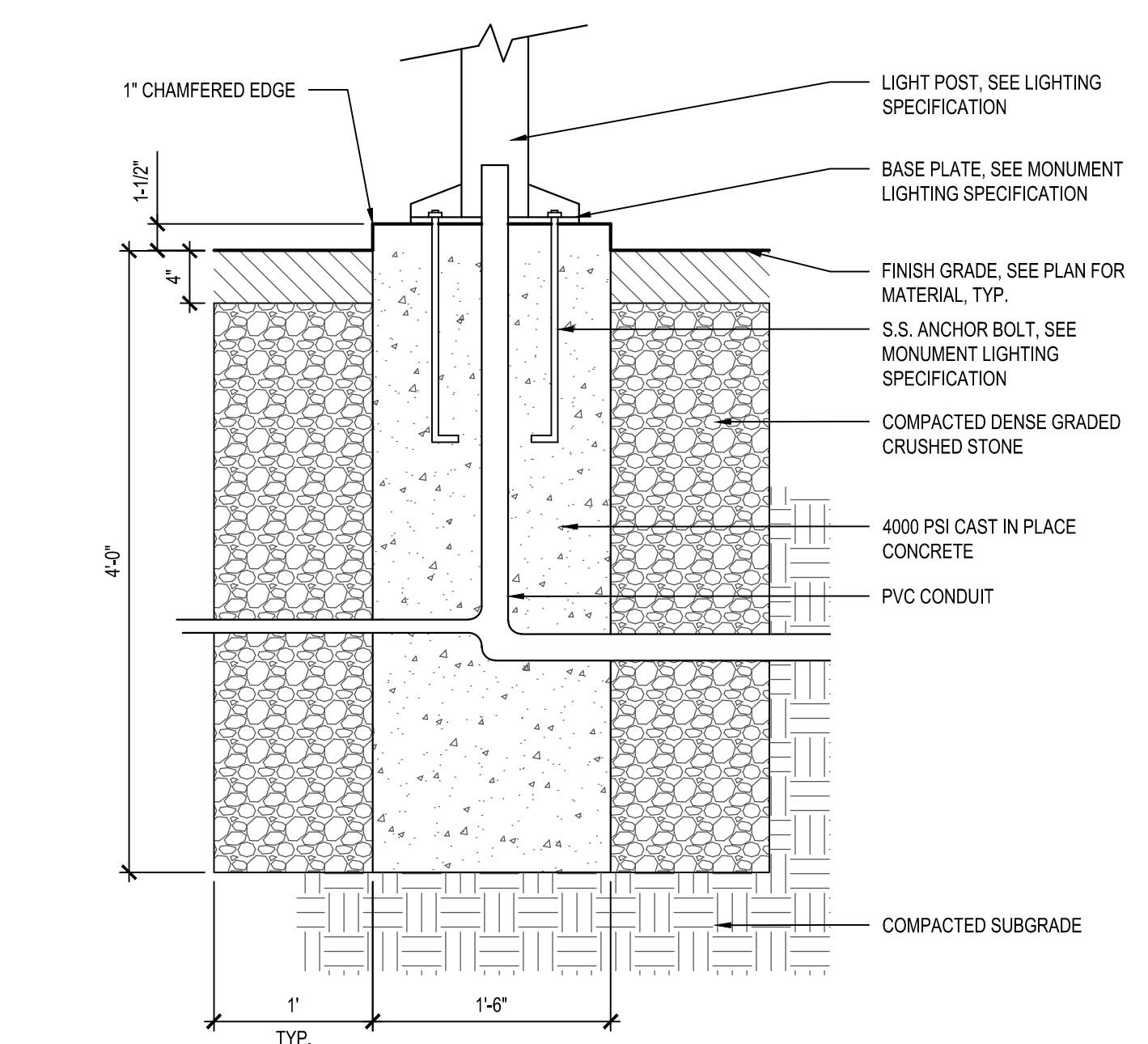
5 TIERED BOULDERS
NOT TO SCALE



7 FLAG POLE AND FOOTING
NOT TO SCALE



6 CONCRETE MOW CURB
NOT TO SCALE



8 NEW PEDESTRIAN LIGHT POST FOOTING
NOT TO SCALE

Project:
IMPROVEMENTS TO BAYVIEW PARK

186 ONSET AVENUE,
WAREHAM, MA, 02558

Weston & Sampson
Weston & Sampson Engineers, Inc.
85 Devonshire Street, 3rd Floor
Boston, MA 02109
978.532.1900 800.SAMPSON
www.westonandsampson.com

Consultants:

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W&S Project No: ENG21-1048
W&S File No:

Drawing Title:

CONSTRUCTION DETAILS

Sheet Number:
L505

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Reviewed By: CB

Approved By: BK

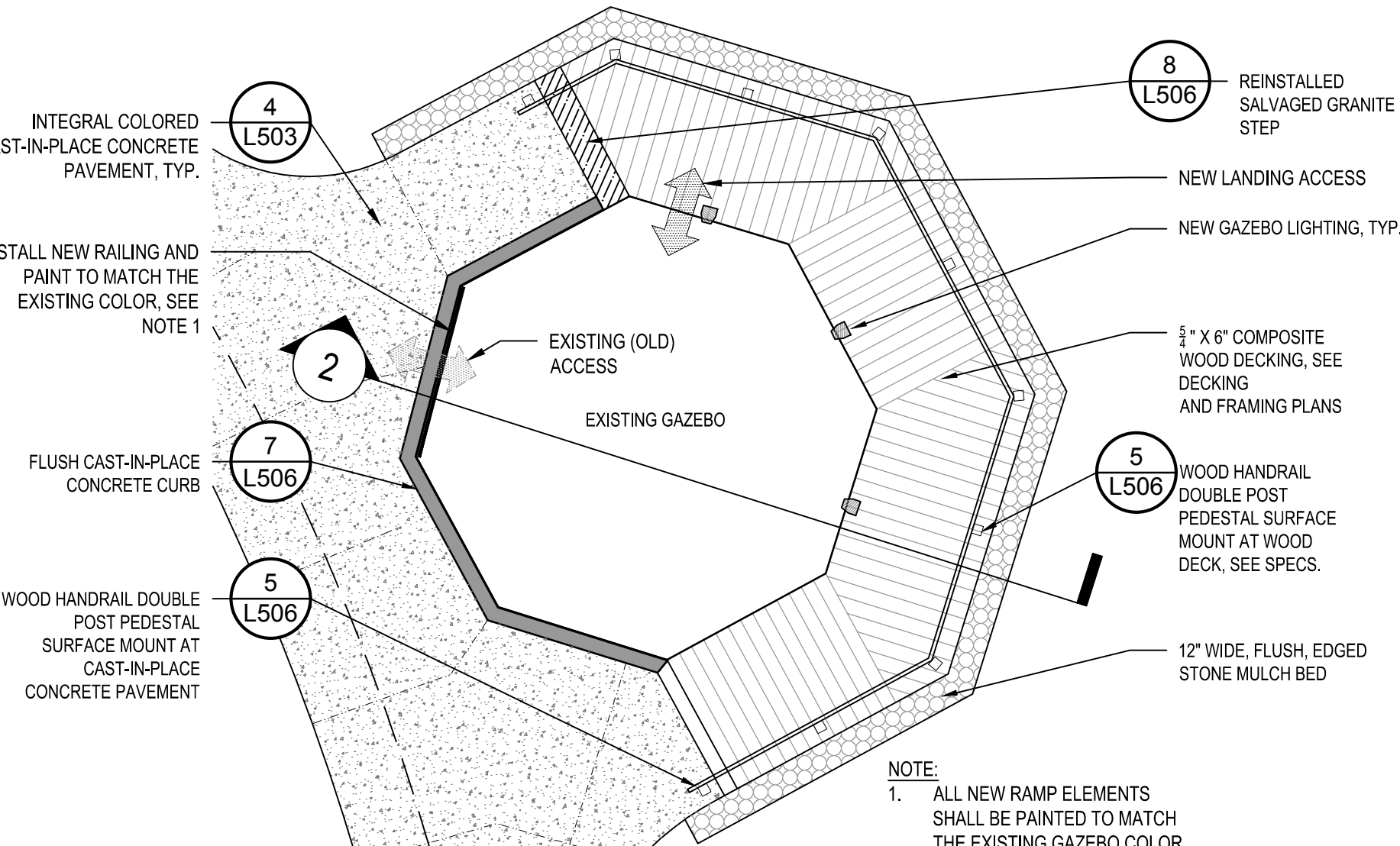
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W&S File No:

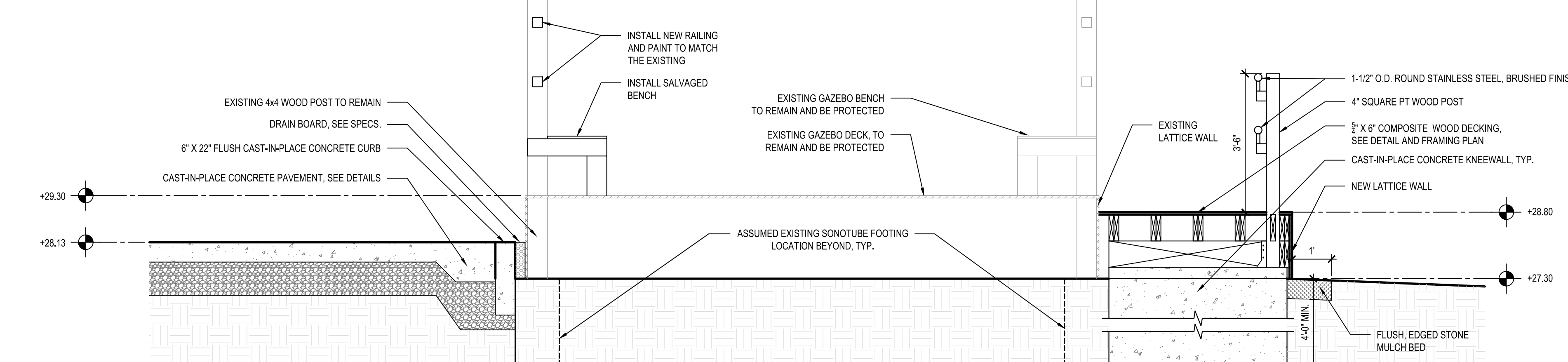
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**CONSTRUCTION
DETAILS**

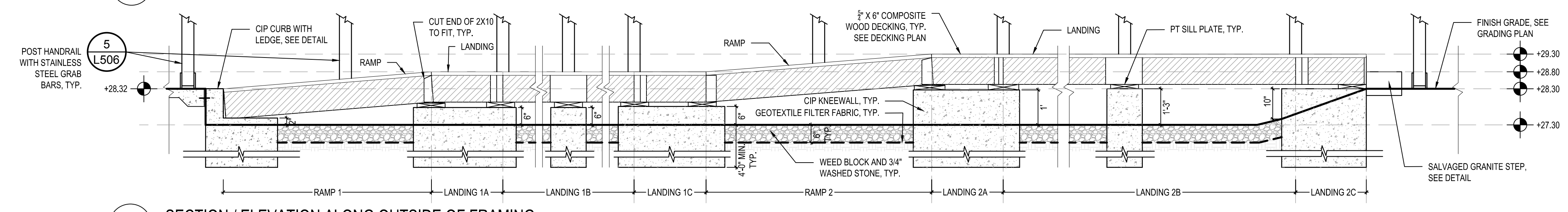
Sheet Number:
L506



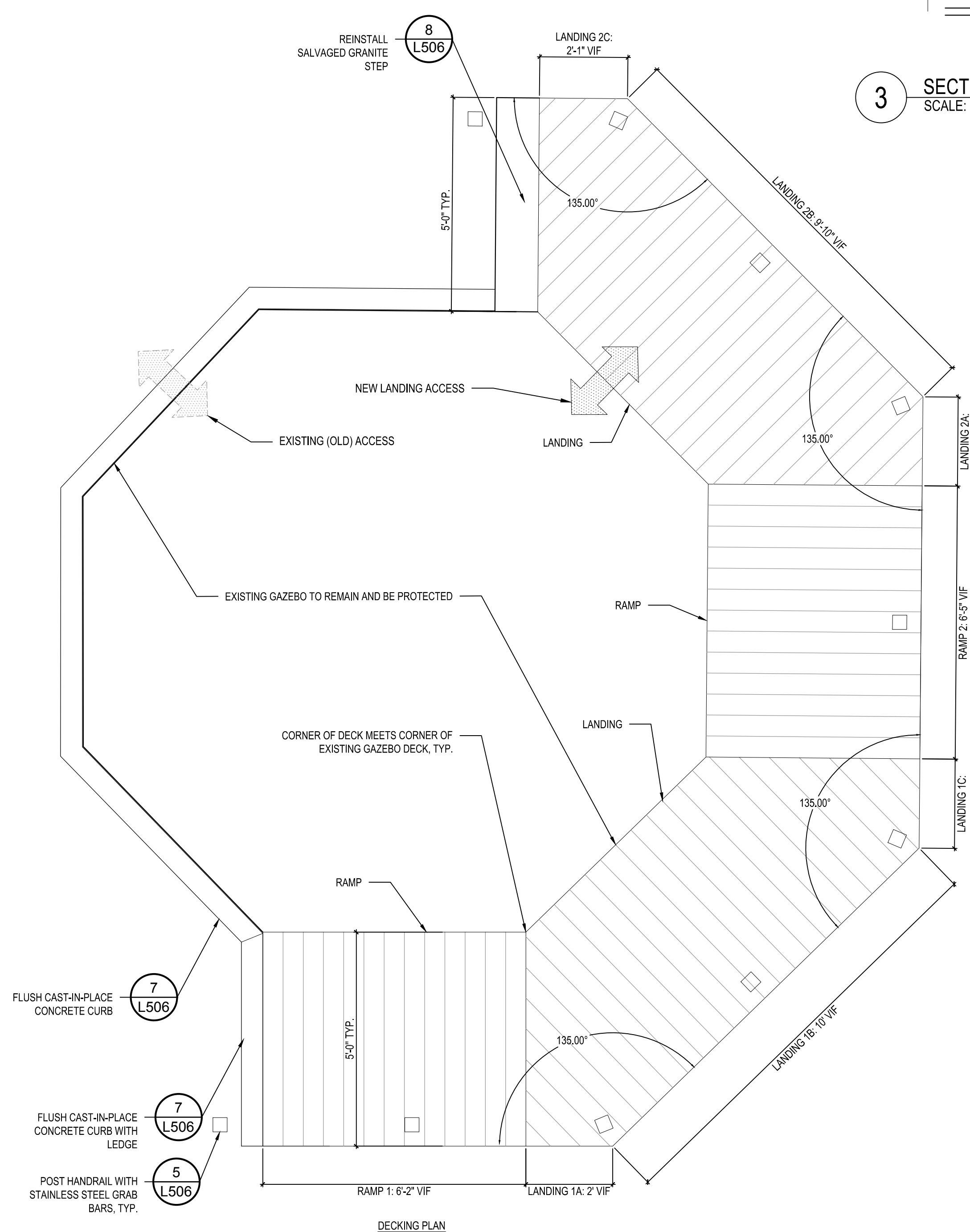
1 ENLARGEMENT PLAN - ADA RAMP AT GAZEBO
SCALE: 1" = 5'-0"



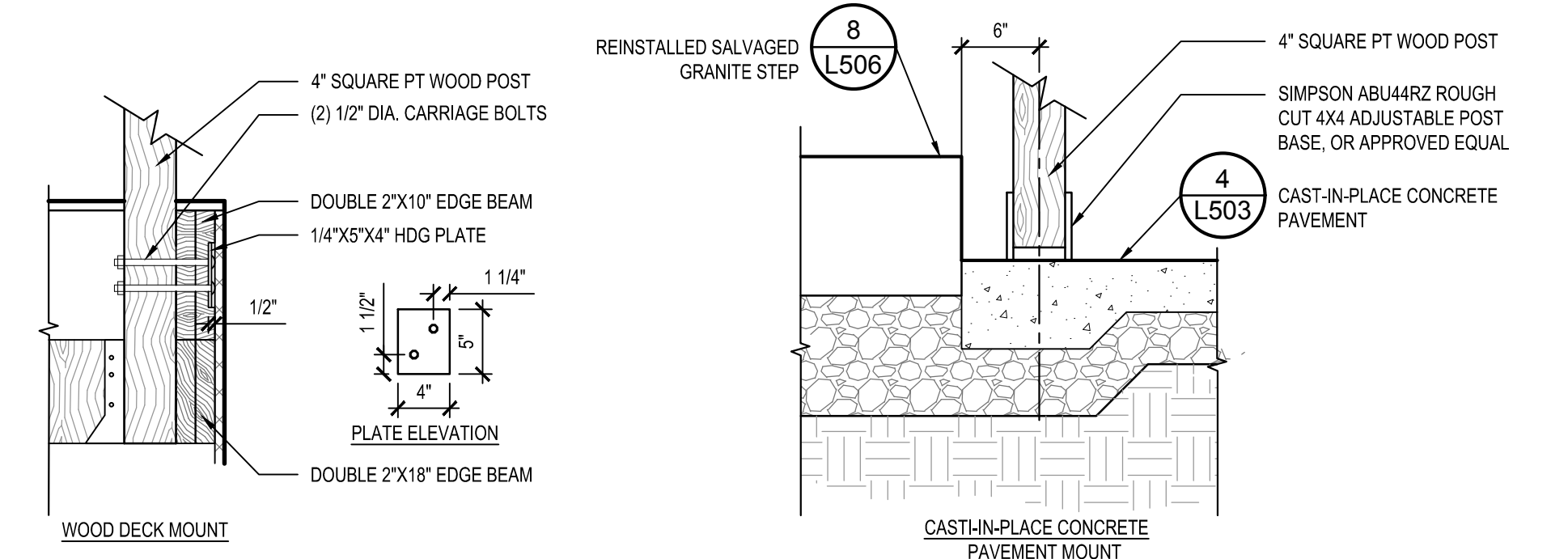
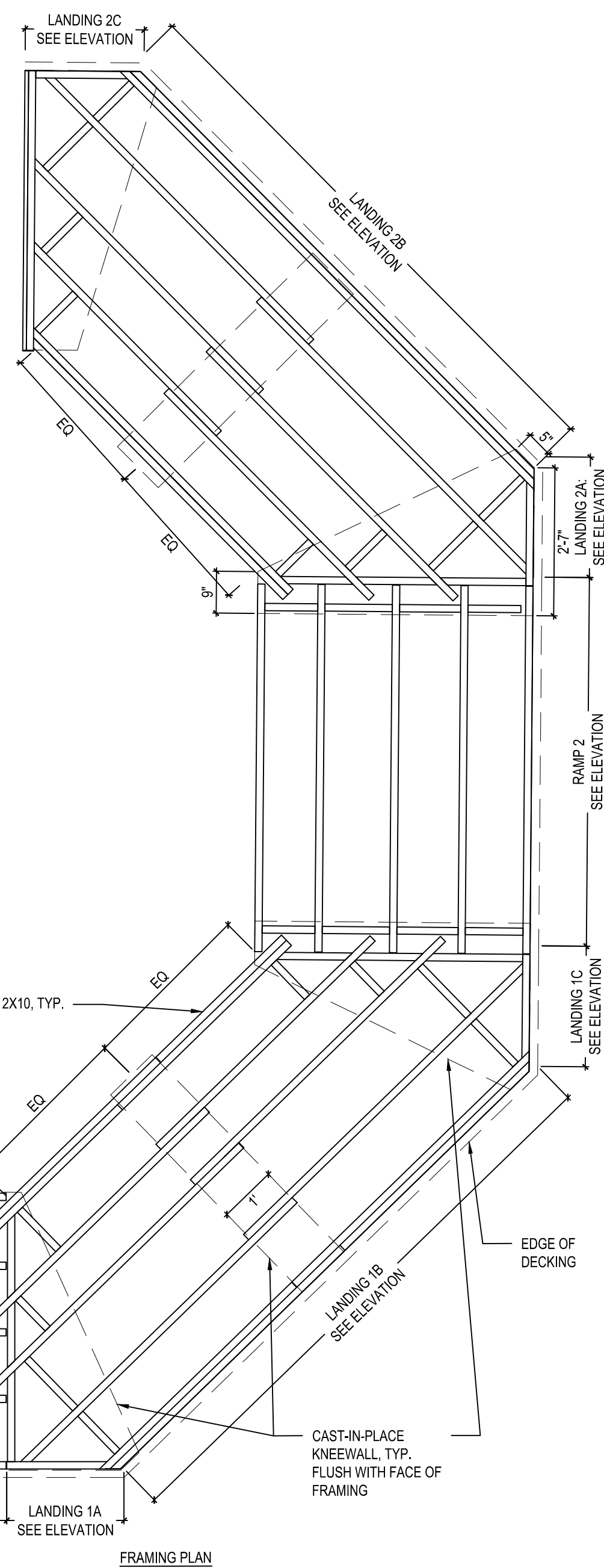
2 ADA RAMP AT GAZEBO SECTION
NOT TO SCALE



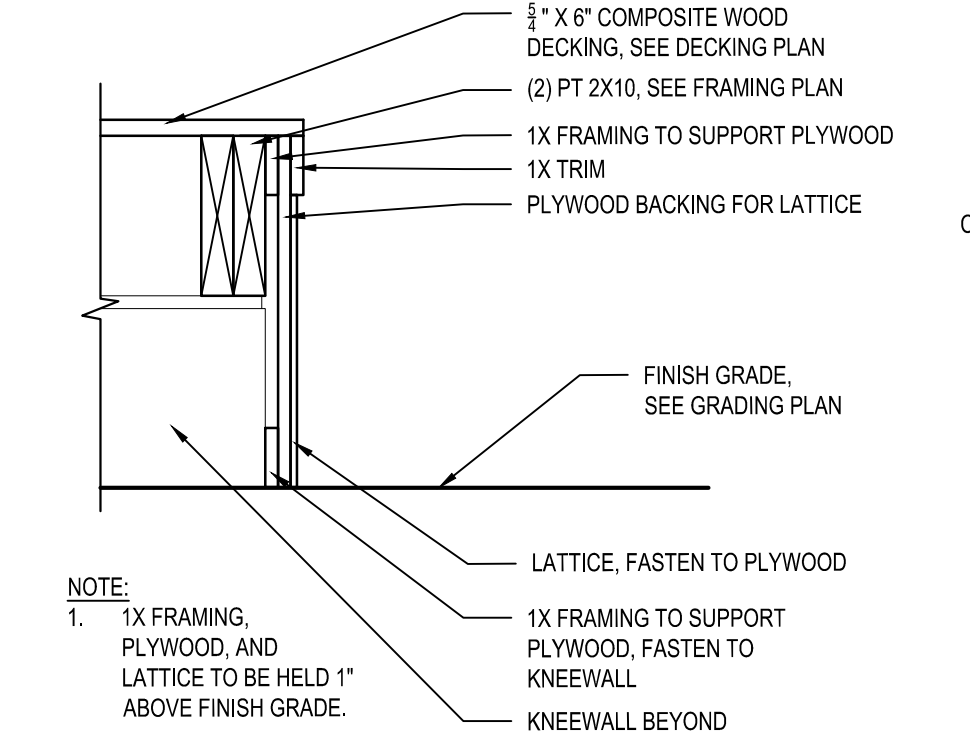
3 SECTION / ELEVATION ALONG OUTSIDE OF FRAMING
SCALE: 1" = 2'-0"



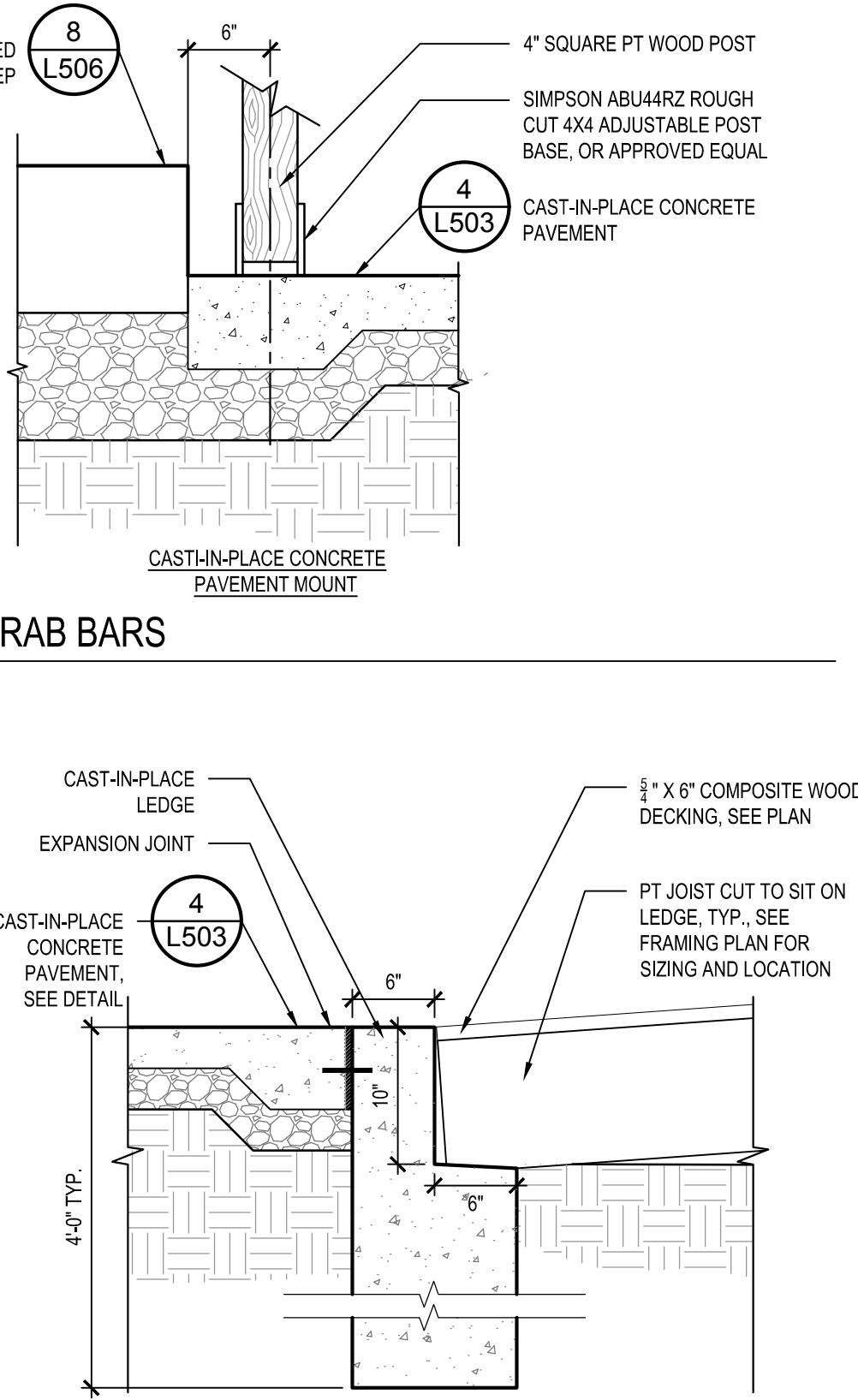
4 RAMP PLANS ALONG GAZEBO
SCALE: 1" = 2'-0"



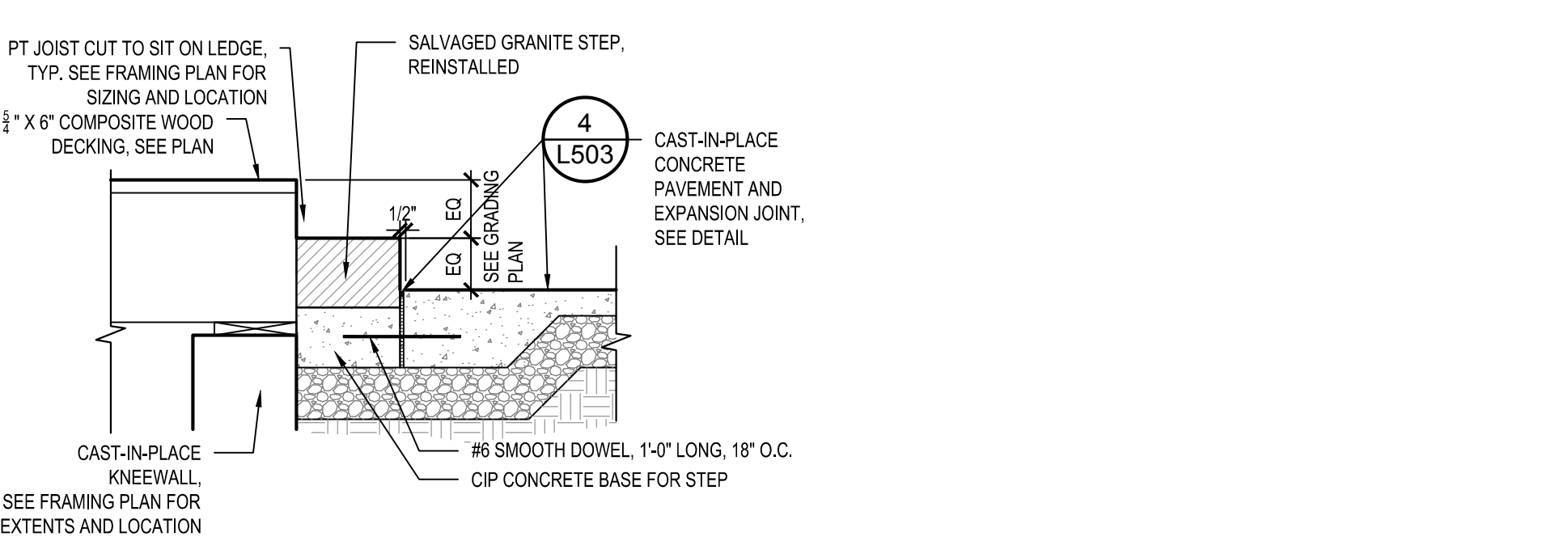
5 POST HANDRAIL WITH STAINLESS STEEL GRAB BARS
NOT TO SCALE



6 LATTICE PANELS AT RAMP AND LANDING
NOT TO SCALE



7 FLUSH CAST-IN-PLACE CONCRETE CURB
NOT TO SCALE



8 REINSTALLED SALVAGED GRANITE STEP
NOT TO SCALE

Consultants:

Revisions:

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W&S Project No: ENG21-1048

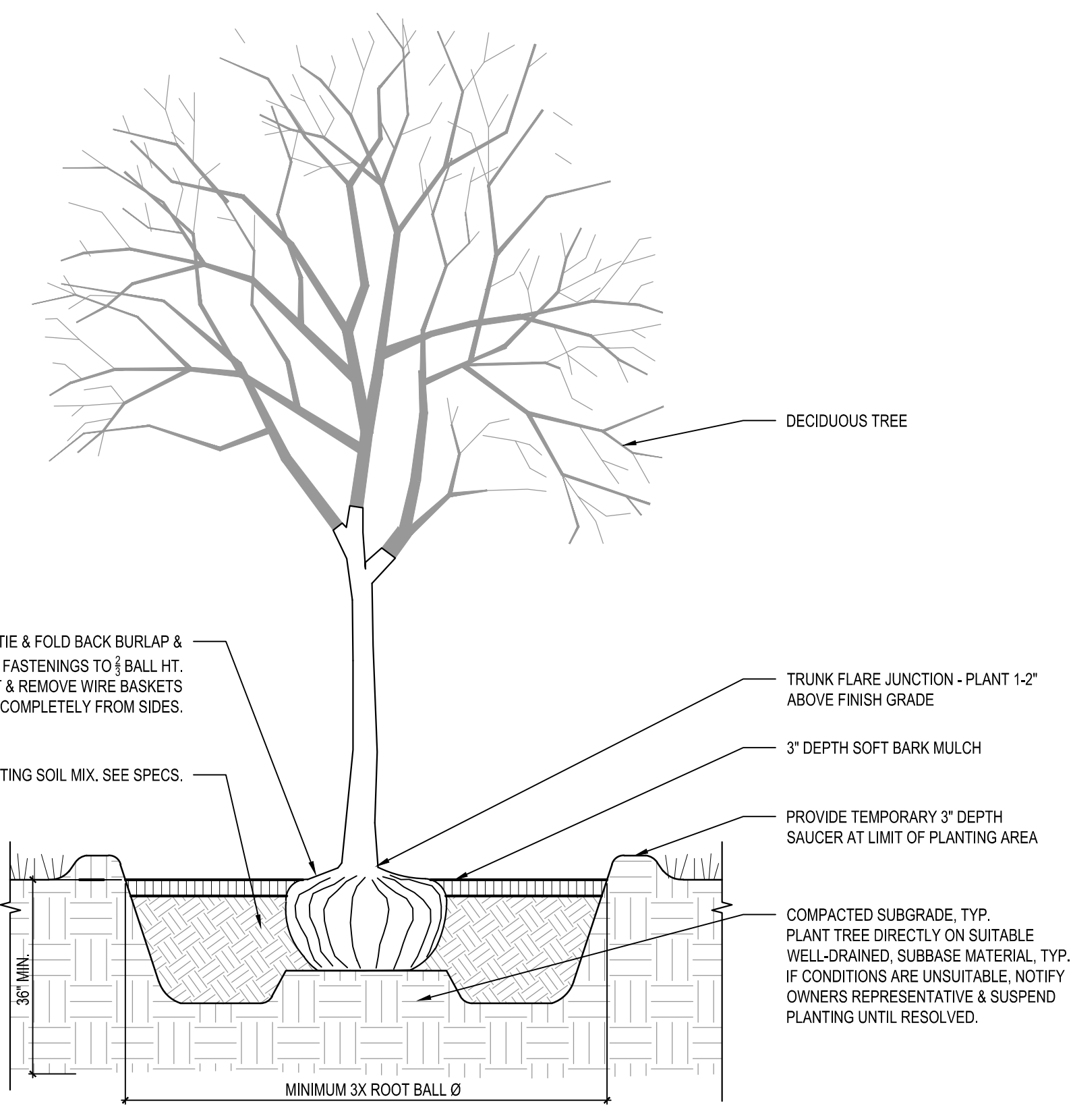
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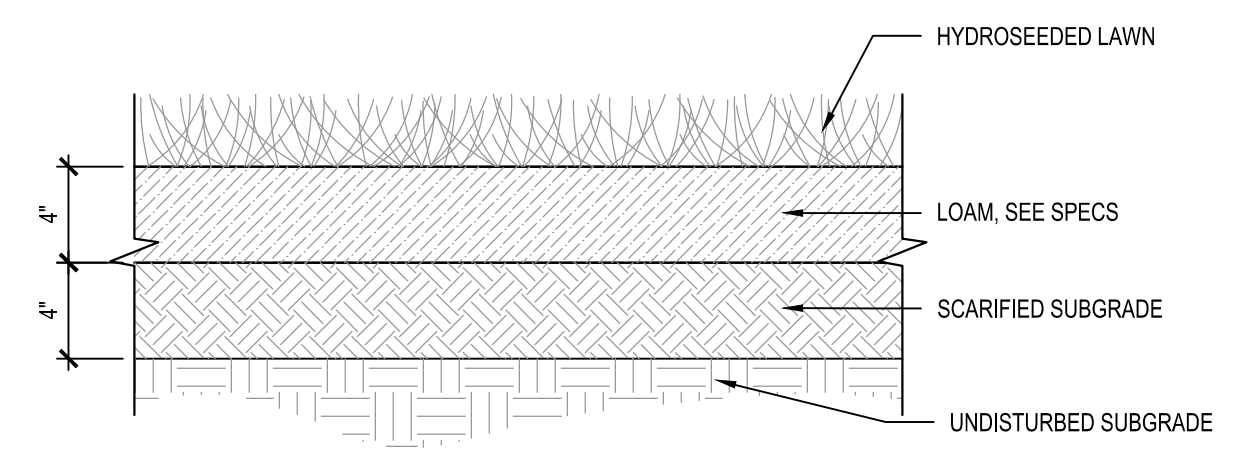
**CONSTRUCTION
DETAILS**

Sheet Number:

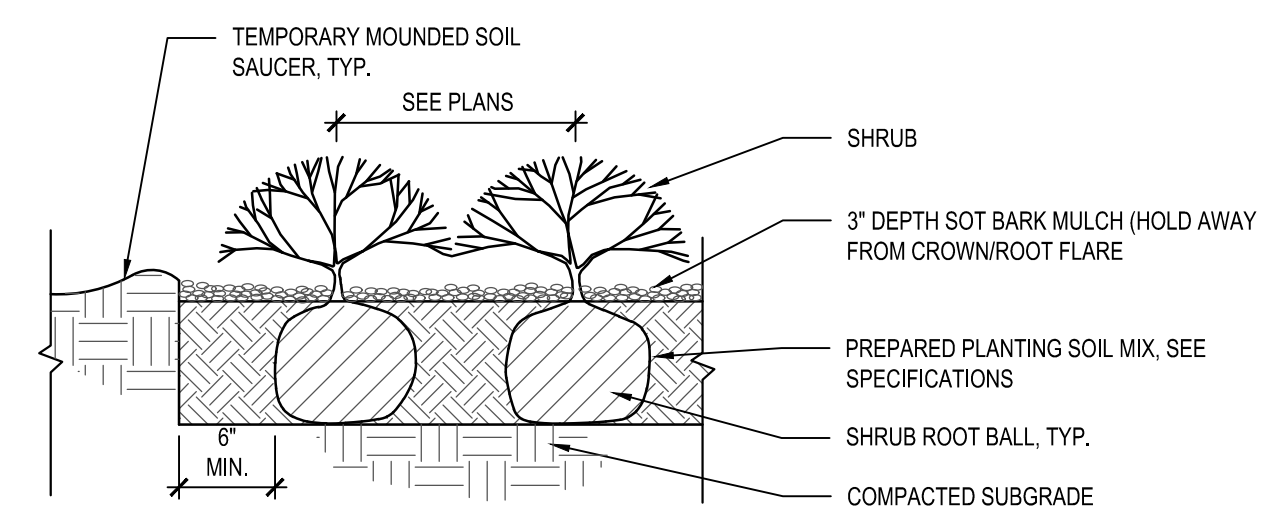
L507



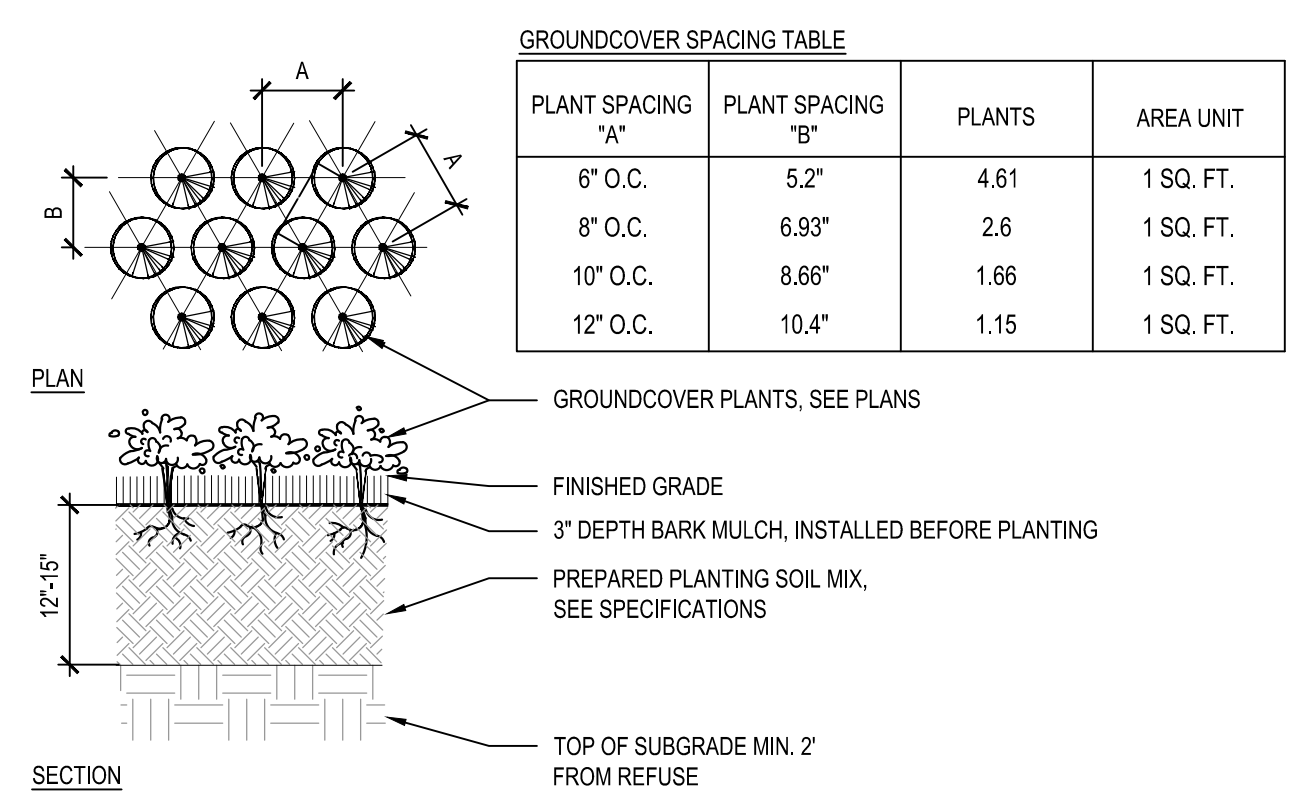
1 TREE PLANTING
NOT TO SCALE



2 LOAM AND SEED
NOT TO SCALE



3 SHRUB PLANTING
NOT TO SCALE



4 GROUNDCOVER PLANTING
NOT TO SCALE

- NOTES:
- ALL GROUNDCOVERS TO BE PLANTED IN TRIANGULAR PATTERN. SEE PLANTING SCHEDULE FOR SPACING.
 - JUTE EROSION CONTROL MAT TO BE USED ON ALL SLOPES 3:1 OR GREATER, SEE SPECIFICATIONS.

ELECTRICAL ABBREVIATIONS LIST

Table listing electrical abbreviations and their full names, organized in columns. Includes terms like AMPERE, CONSTRUCTION, LIGHTING, and VOLT.

Project: IMPROVEMENTS TO BAYVIEW PARK. Includes the seal of the Commonwealth of Massachusetts and address: 186 ONSET AVENUE, WAREHAM, MA, 02558.

Weston & Sampson

www.westonandsampson.com

Consultants:

Revisions table with columns for No., Date, and Description. Includes a seal for Robert F. McAleer, Registered Professional Engineer.

Table for Revisions with columns: No., Date, Description.

Issued For: BID DOCUMENTS

Scale: AS NOTED. Date: NOVEMBER 30, 2023. Drawn By: TZ. Reviewed By: CB. Approved By: BK. W&S Project No: ENG21-1048. W&S File No:

Drawing Title: ELECTRICAL LEGEND, ABBREVIATIONS AND GENERAL NOTES. Sheet Number: E001. Copyright 2022 Weston & Sampson.

GENERAL ELECTRICAL NOTES

- 1. DRAWINGS ARE DIAGRAMMATIC ONLY... THE EXACT LOCATION, MOUNTING HEIGHTS, SIZE OF EQUIPMENT AND ROUTING OF RACEWAYS SHALL BE COORDINATED AND DETERMINED IN THE FIELD.
2. THE EXACT LOCATION AND MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES LOCATED IN MECHANICAL/ELECTRICAL EQUIPMENT SPACES SHALL BE COORDINATED IN THE FIELD BY THE ELECTRICAL CONTRACTOR BEFORE INSTALLATION OF SAME.

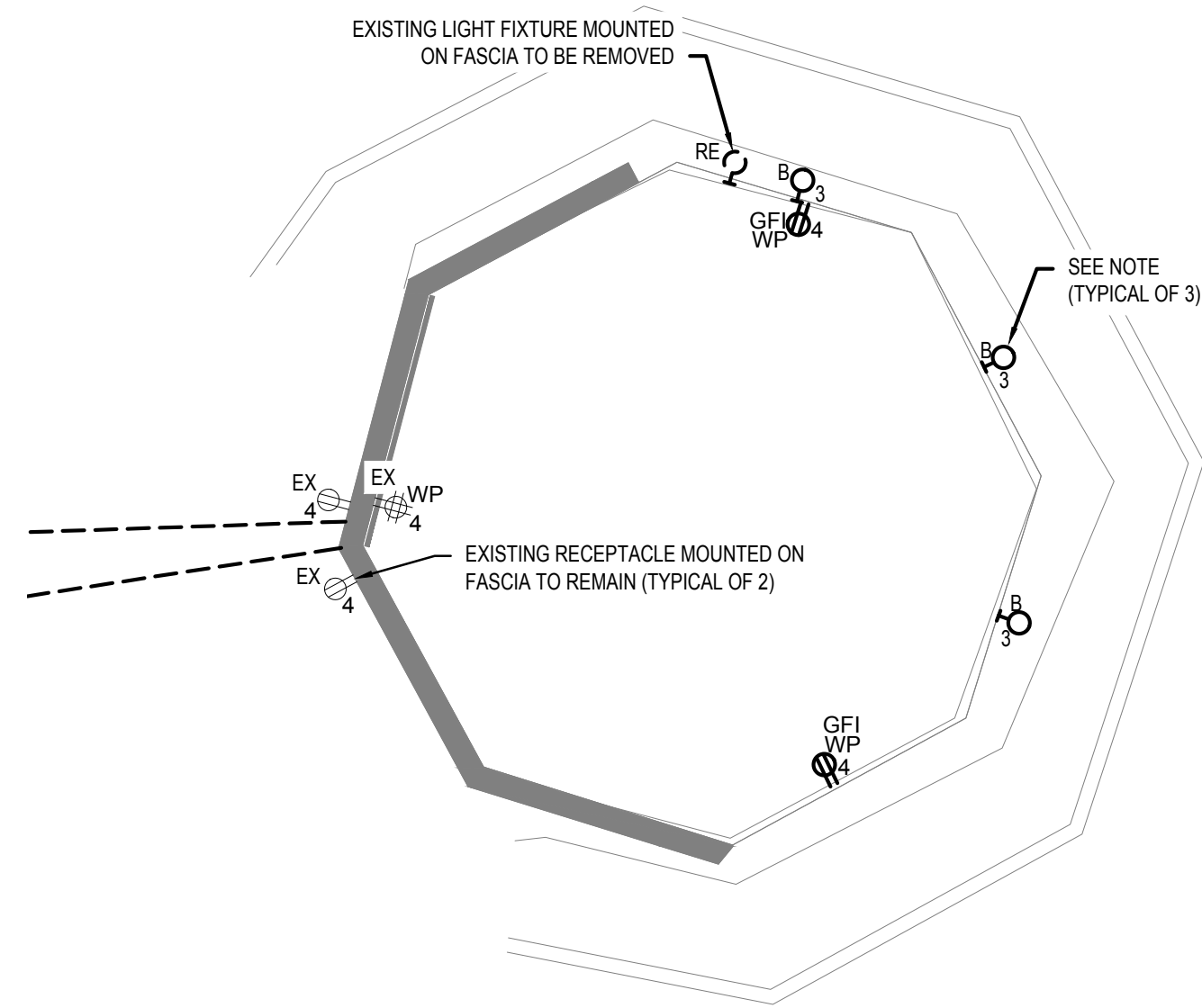
DEMOLITION NOTES

- 1. THE ELECTRICAL CONTRACTOR WILL WORK IN CONJUNCTION WITH THE GENERAL CONTRACTOR TO DEMOLISH THE EXISTING ELECTRICAL SYSTEM. THE ELECTRICAL CONTRACTOR IS TO DEACTIVATE, DISCONNECT AND REMOVE THOSE SYSTEMS WHICH WILL BE DEMOLISHED.
2. ALL CONDUIT AND WIRE WHICH IS NO LONGER IN USE IS TO BE REMOVED. CONDUIT AND WIRE IS TO BE REMOVED BACK TO ITS SOURCE OR NEAREST DEVICE WHICH IS SCHEDULED TO REMAIN.

ELECTRICAL LEGEND

RACEWAY AND WIRING: HOMERUN TO PANELBOARD, NUMBER OF TICKS INDICATES NUMBER OF #12 AWG CONDUCTORS CONTAINED IN RACEWAY. LIGHTING FIXTURES: PEDESTRIAN LIGHT FIXTURE, "A" DENOTES FIXTURE TYPE. RECEPTACLES: DUPLEX CONVENIENCE OUTLET RATED 20A, 125V, U-SLOT GROUNDED TYPE MOUNTED 18" ABOVE FINISHED FLOOR TO CENTER LINE. POWER DISTRIBUTION EQUIPMENT: HAND HOLE, WATT HOUR METER.

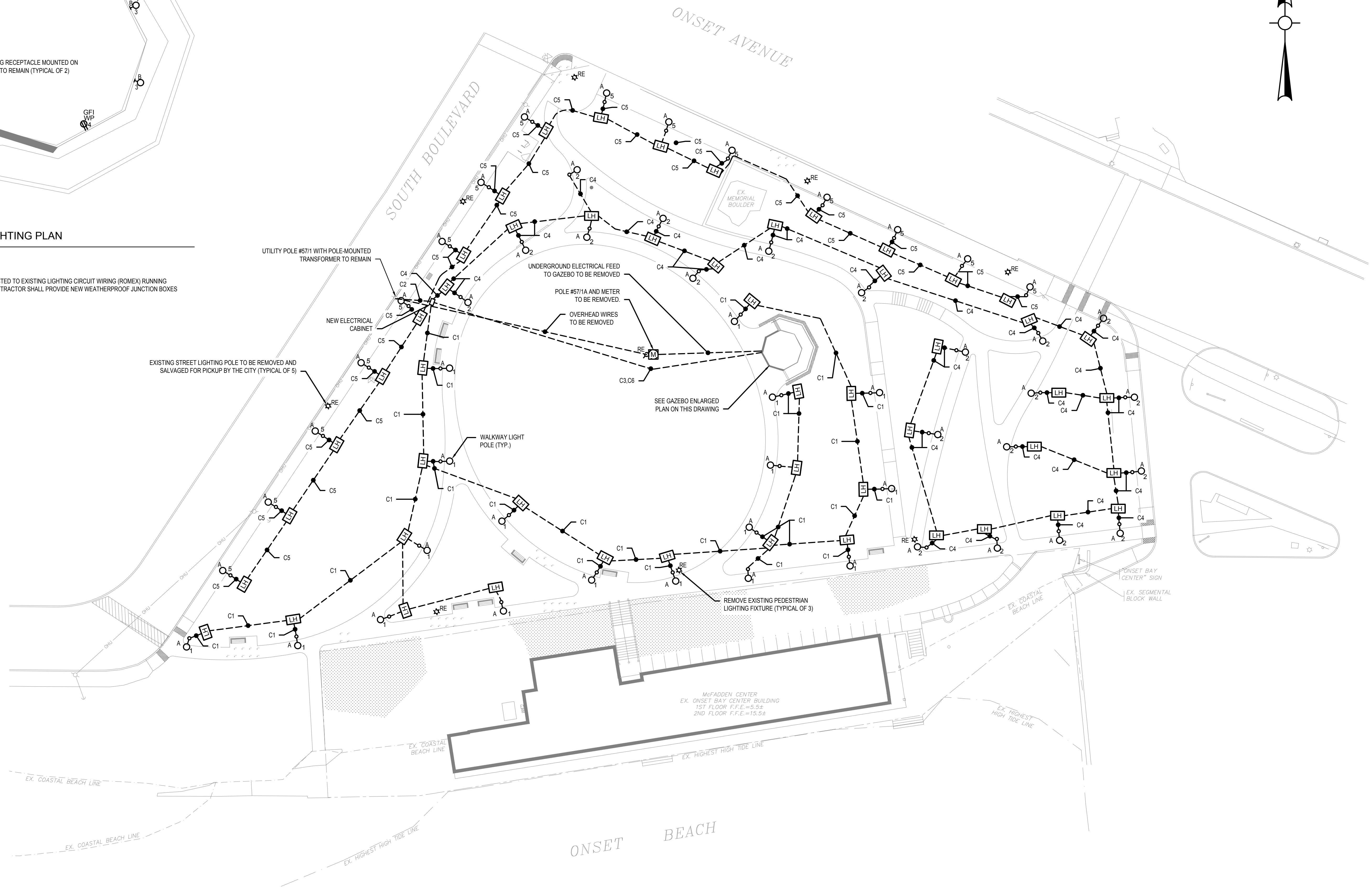
P:\MA\Wareham_MA\Bayview_Park - Onset\CD\Electrical\E001 - Legend.dwg



2 ENLARGED GAZEBO LIGHTING PLAN

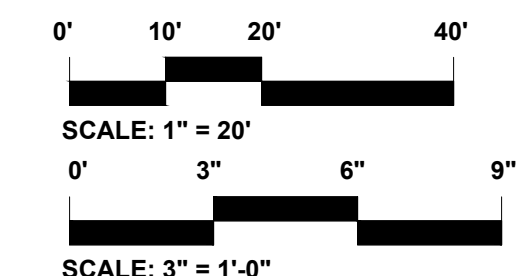
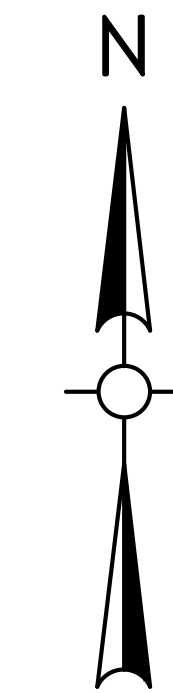
SCALE: 3" = 1'-0"

NOTE:
NEW TYPE B LIGHT FIXTURES SHALL BE CONNECTED TO EXISTING LIGHTING CIRCUIT WIRING (ROMEX) RUNNING AROUND THE GAZEBO FASCIA. ELECTRICAL CONTRACTOR SHALL PROVIDE NEW WEATHERPROOF JUNCTION BOXES AND WIRING EXTENTIONS AS REQUIRED.



1 ELECTRICAL SITE PLAN

SCALE: 1" = 20'-0"



Project:
IMPROVEMENTS TO
BAYVIEW PARK

186 ONSET AVENUE,
WAREHAM, MA, 02558

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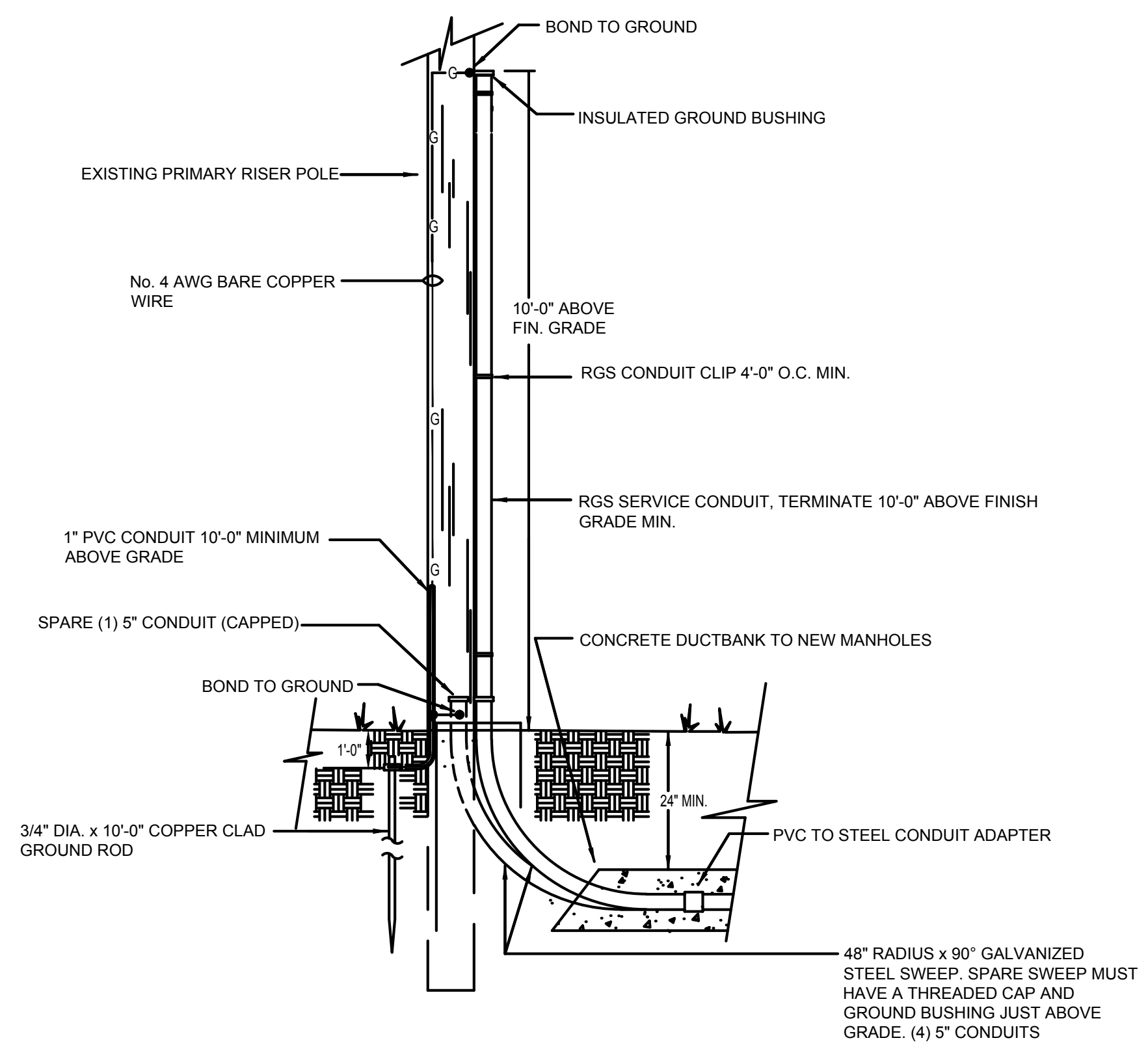
Scale: AS NOTED
Date: NOVEMBER 30, 2023
Drawn By: TZ
Reviewed By: CB
Approved By: BK

W&S Project No: ENG21-1048
W&S File No:

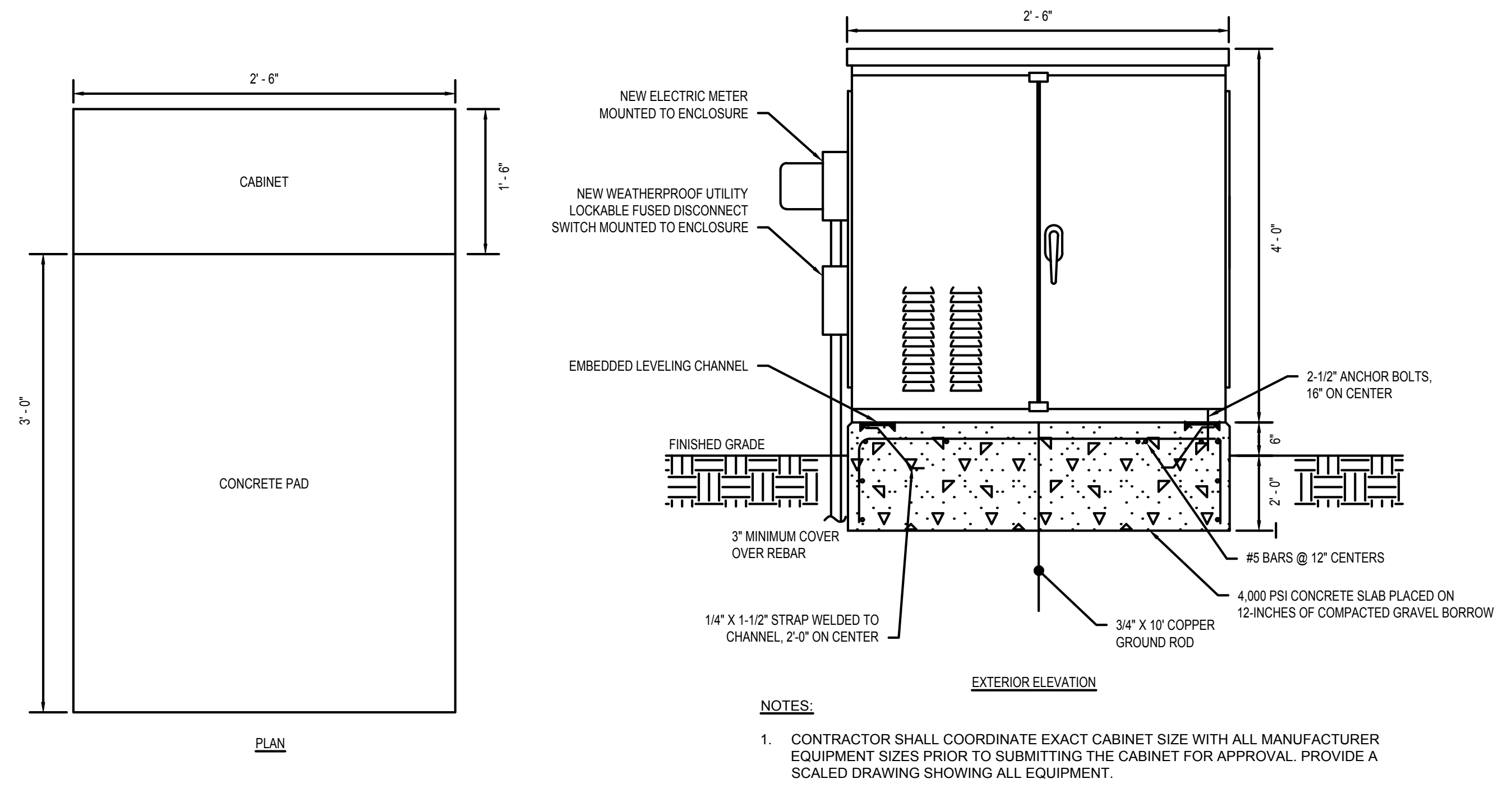
Drawing Title:
**ELECTRICAL
SITE PLAN**

Sheet Number:
E101

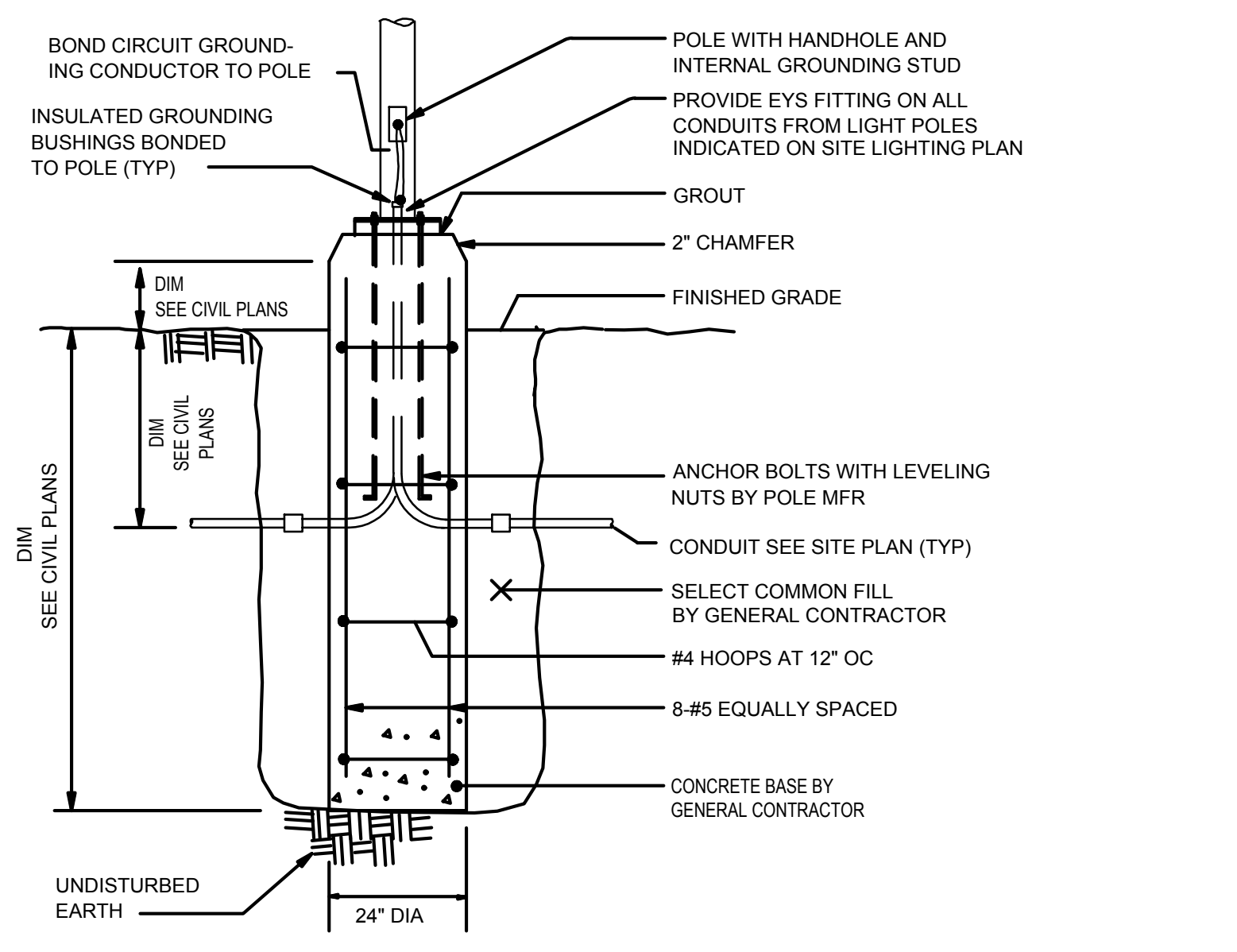
P:\MA\Wareham MA\Bayview Park - Onset\CAD\Electrical\0202 - Site Plan.dwg



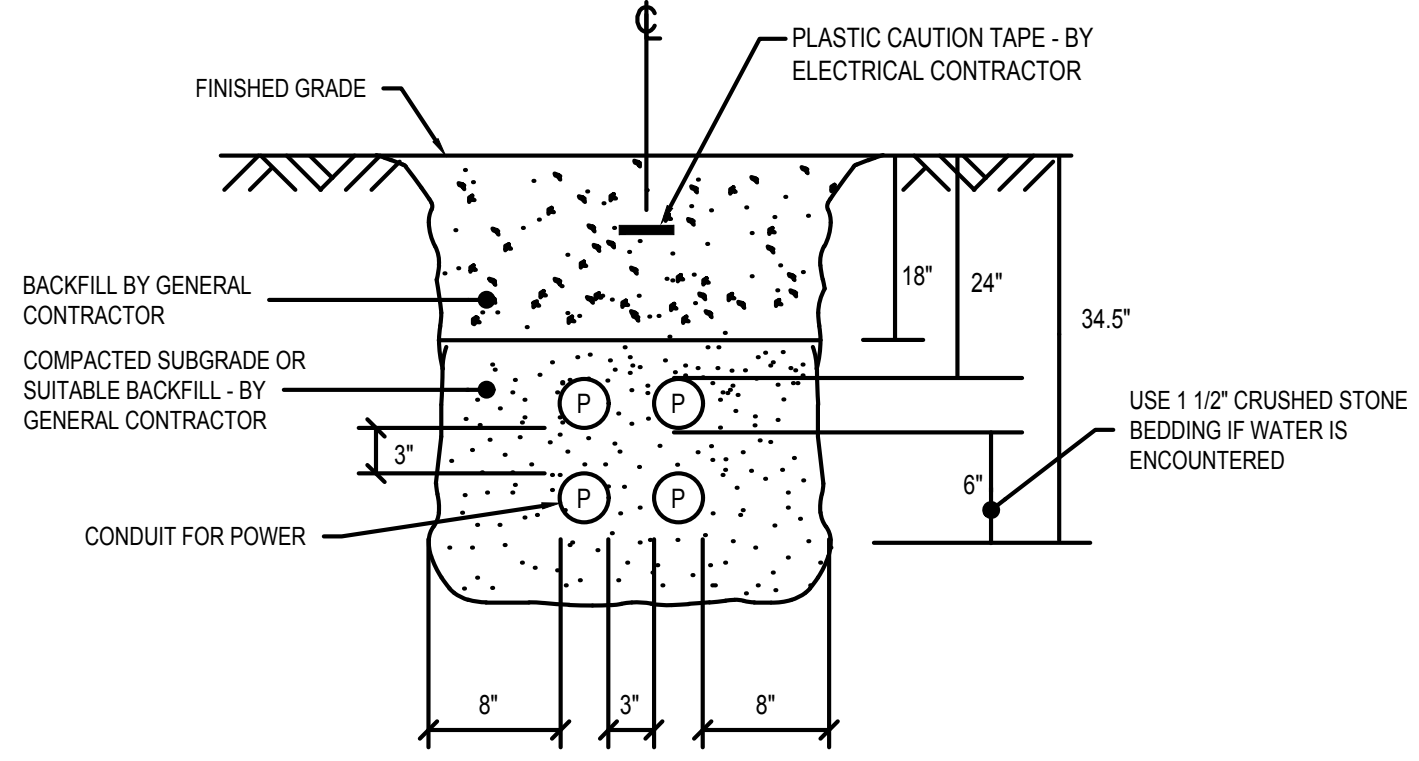
1 TYPICAL RISER POLE DETAIL
NOT TO SCALE



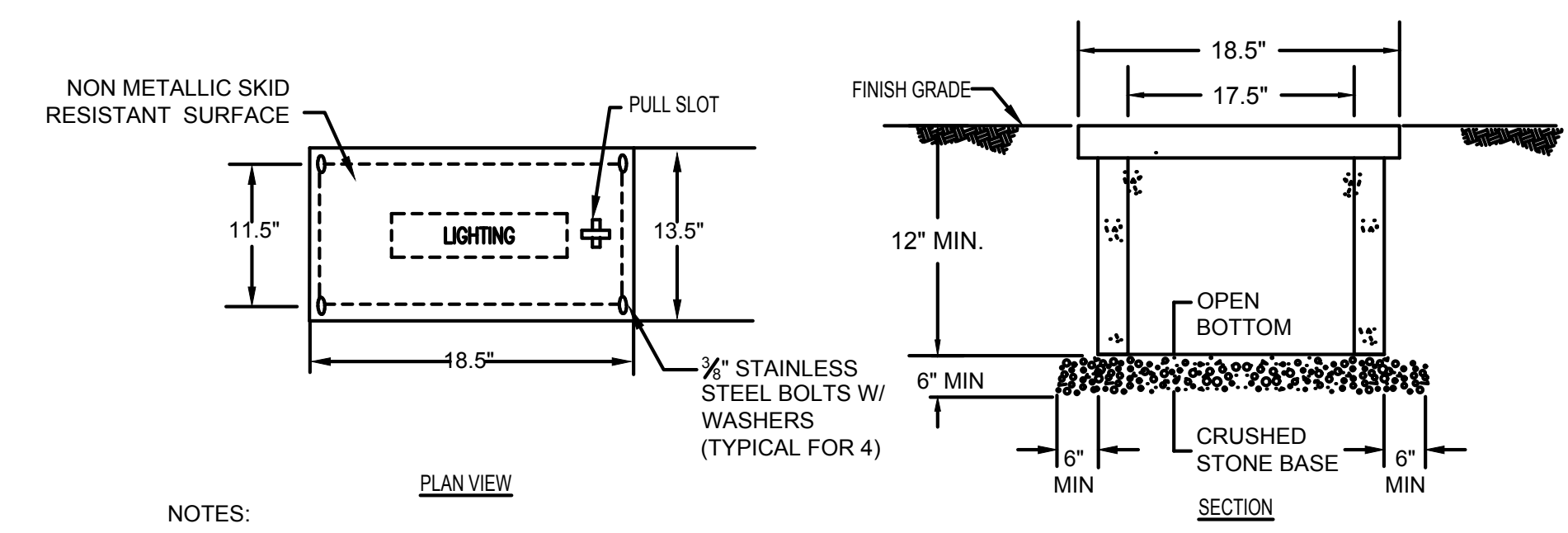
2 TYPICAL PAD-MOUNTED ELECTRICAL ENCLOSURE DETAIL
NOT TO SCALE



3 TYPICAL LIGHT POLE BASE DETAIL
NOT TO SCALE



4 TYPICAL DIRECT BURIED MULTIPLE CONDUIT DETAIL
NOT TO SCALE

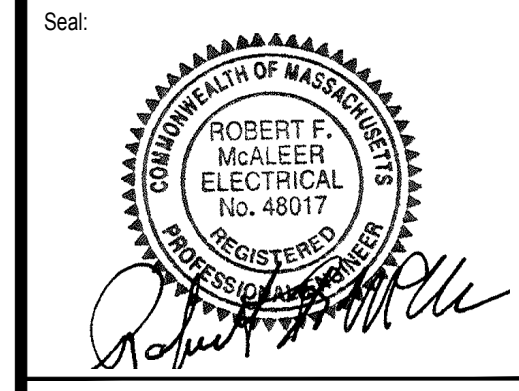


5 TYPICAL PREFABRICATED HANDHOLE DETAIL
NOT TO SCALE

Consultants:

Revisions:

No.	Date	Description



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Reviewed By: CB

Approved By: BK

W&S Project No: ENG21-1048

W&S File No:

Drawing Title:

**ELECTRICAL
DETAILS**

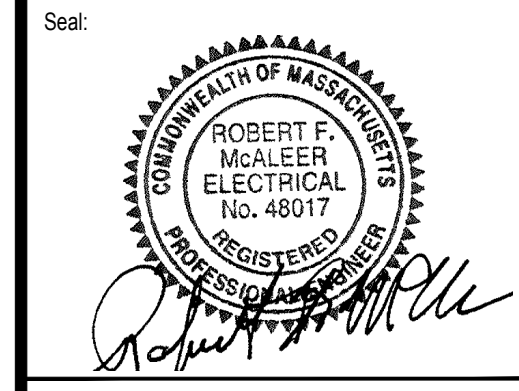
Sheet Number:

E501

Consultants:

Revisions:

No.	Date	Description



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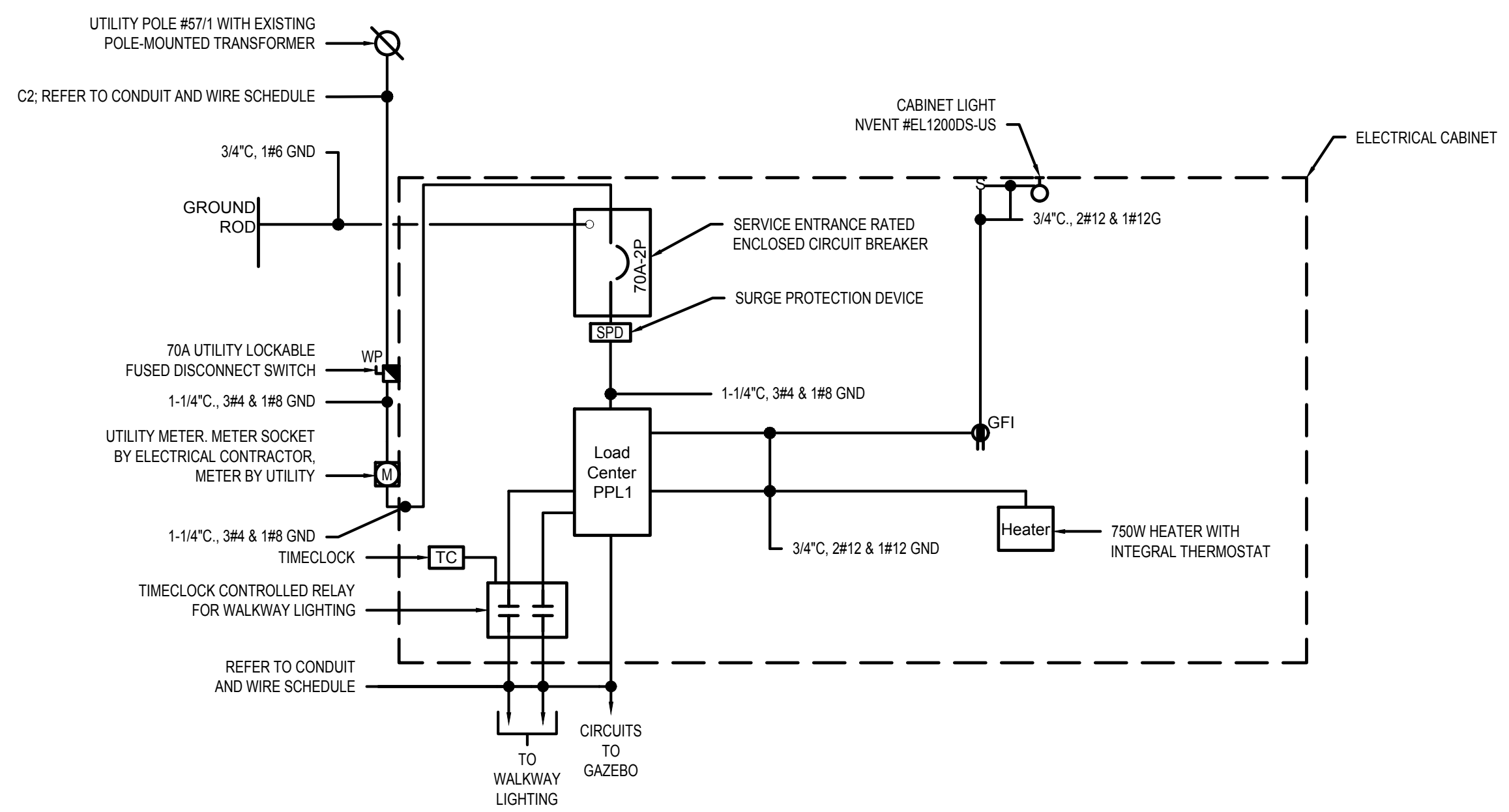
W&S File No:

Drawing Title:

ELECTRICAL
SCHEDULES AND
DIAGRAMS

Sheet Number:

E601



1 ELECTRICAL ONE LINE DIAGRAM
NOT TO SCALE

CONDUIT AND WIRE SCHEDULE									
CONDUIT TAG	FEEDER	FROM	TO	CONTACT	NO. OF FIXTURES	NO. OF OUTLETS	LOAD	CONTACT SIZE	REMARKS
C1	1-1/2"., 2#6 & 1#6G	PPL1-1	WALKWAY LIGHTING	-	18	-	540W	-	DIRECT BURIED
C2	2"., 3#4 & 1#8G	UP#57/1 POLE-MOUNTED TRANSFORMER	ELECTRICAL CABINET	-	-	-	-	-	DIRECT BURIED
C3	1"., 2#10 & 1#10G	PPL1-4	GAZEBO RECEPTACLES	-	-	4	-	-	DIRECT BURIED
C4	1-1/2"., 2#6 & 1#6G	PPL1-2	WALKWAY LIGHTING	-	19	-	570W	-	DIRECT BURIED
C5	1-1/2"., 2#6 & 1#6G	PPL1-5	STREET LIGHTING	-	15	-	450W	-	DIRECT BURIED
C6	1"., 2#10 & 1#10G	PPL1-3	GAZEBO LIGHTING	-	9	-	270W	-	DIRECT BURIED

PANELBOARD SCHEDULE							
DESIGNATION: PPL1		S.C. RATING: 10,000 AMPS		REMARKS:			
LOCATION: NEW LIGHTING CABINET		SERVICE: 120/240 VOLT, 1 PHASE, 3 WIRE					
RATING: 100 AMP		MOUNTING: SURFACE					
MAIN: MLO							
CKT. NO.	LOAD DESIGNATION	CIRCUIT BREAKER	LOAD (KW)		CIRCUIT BREAKER	LOAD DESIGNATION	CKT. NO.
			A	B			
1	WALKWAY LIGHTING	20	1.11		20	WALKWAY LIGHTING	2
3	GAZEBO LIGHTING	20		1.35	20	GAZEBO RECEPTACLES	4
5	STREET LIGHTING	30	0.63		20	CABINET RECEPTACLE AND LIGHT	6
7	CABINET HEATER	20		0.75	20	SPARE	8
9	SPARE	20			20	SPARE	10
11	SPARE	20			20	SPARE	12
SUB-TOTAL			1.74	2.1			
TOTAL			3.84	KVA			
ESTIMATED DEMAND LOAD			3.46	KVA			
TOTAL DEMAND CURRENT			14.4	AMPS			

LIGHTING FIXTURE SCHEDULE									
TYPE	TYPE	MANUFACTURER	CATALOG NUMBER	LAMP		MOUNTING	VOLTAGE	LOAD	REMARKS
				NO.	TYPE				
A	ARCHITECTURAL AREA LUMINAIRE; TYPE 3 DISTRIBUTION	PENNSYLVANIA GLOBE	PG-BR-COLONIAL-SM-30W	1	LED 4000 LUMENS 3000 K CCT	POLE	120	30W	ACDP-P-9'-4 ALUMINUM POLE
B	ARCHITECTURAL FACADE LUMINAIRE	CBRIGHT	CB-SL1139-30W-30K-UNV-060-GR-U	6	LED 400 LUMENS 3000 K CCT	WALL	120	30W	IP66 RATED



TOWN OF WAREHAM

HIGHLAND AVENUE SIDEWALK REPLACEMENT

HIGHLAND AVENUE
WAREHAM, MA, 02558

TOWN OF WAREHAM, MASSACHUSETTS

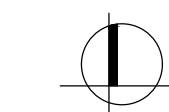
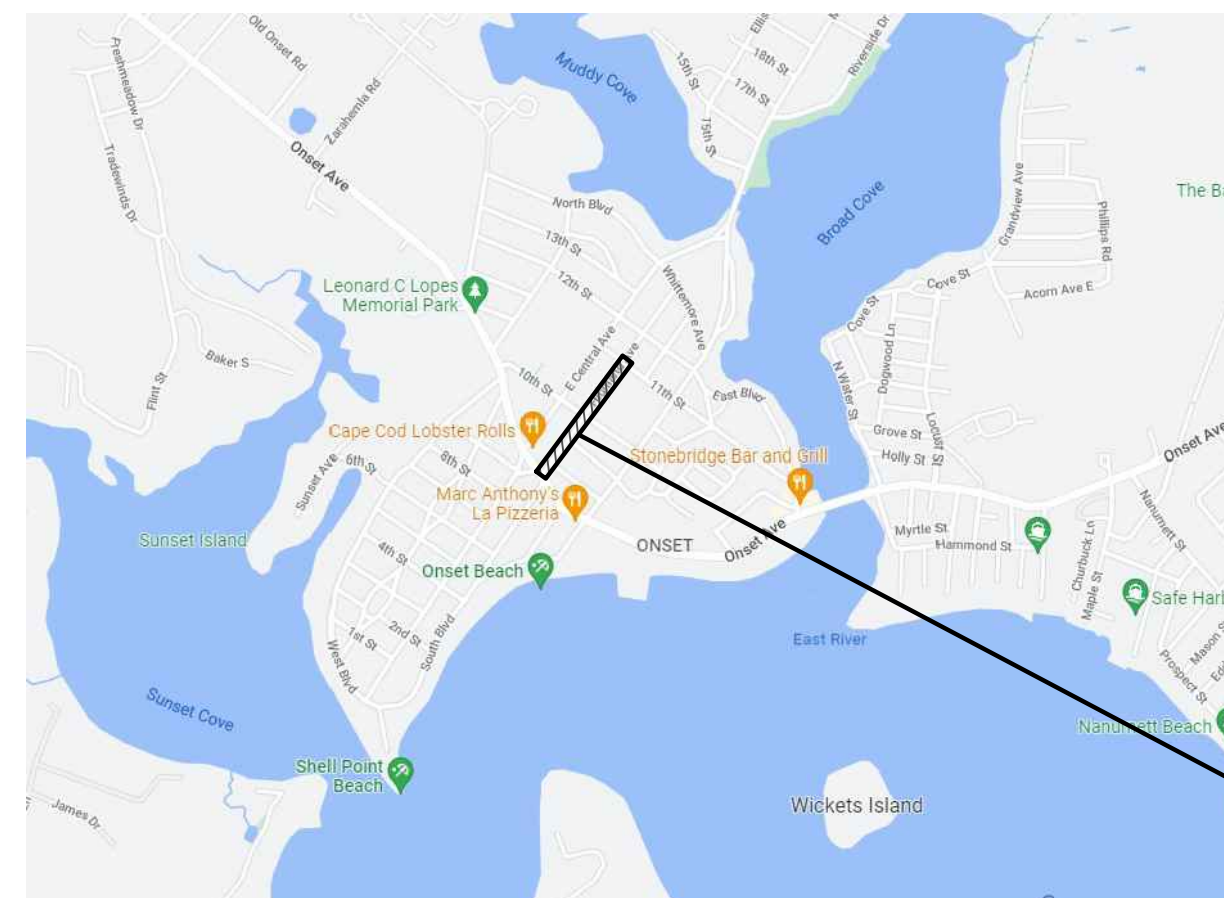
DEREK SULLIVAN
TOWN ADMINISTRATOR
54 MARION ROAD
WAREHAM, MA 02571
(508) 291-3100



SHEET INDEX

C000	COVER
C001	LEGEND, ABBREVIATIONS AND NOTES
C100	HIGHLAND AVENUE STA 0+00 TO 9+15
C101	DETAILS 1
C102	DETAILS 2
C102	CONSTRUCTION ZONE SAFETY PLAN

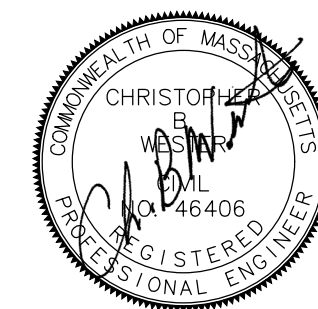
Locus Map



HIGHLAND AVENUE
ONSET VILLAGE, WAREHAM, MA

FOR ILLUSTRATIVE PURPOSES ONLY

BID DOCUMENTS
DECEMBER 2023



Prepared By

Weston & SampsonSM

85 Devonshire St. 3rd Floor, Boston, MA 02109
(617) 412-4480 (800) Sampson
www.westonandsampson.com
Contact: Cassie Bethoney, RLA

LEGEND		
DESCRIPTION	EXISTING	PROPOSED
SANITARY SEWER	—S—	—8"S PVC—
FORCE MAIN	—FM—	—6"FM DI—
WATER MAIN	—W—	—8"W DI—
TEMPORARY WATER	—TW—	—X" TW—
STORM DRAIN	—D—	—18"D RCP—
GAS	—G—	—4"G—
ELECTRIC	—E—	—E—
TELEPHONE	—T—	—T—
HOUSE CONNECTION	—SS—SS—	—SS—SS—
WATER SERVICE	—WS—	—WS—
TEMPORARY WATER SERVICE		—TW—
SANITARY SEWER MANHOLE	⊙	● SMH
STORM DRAIN MANHOLE	⊙	● DMH
ELECTRICAL MANHOLE	⊙	
TELEPHONE MANHOLE	⊙	
AIR RELEASE VALVE MANHOLE		● ARMH
FORCE MAIN CLEANOUT MANHOLE		● FMMH
CLEANOUT		● CO
CATCH BASIN	⊞	
HYDRANT	⊞	+
TEMPORARY HYDRANT		⊞
GATE VALVE	⊞	⊞
CHECK VALVE	⊞	⊞
BUTTERFLY VALVE	⊞	⊞
INSERTION VALVE	⊞	⊞
CURB STOP	⊞	⊞
REDUCER	⊞	⊞
CAP OR PLUG / CUT AND CAP	⊞	⊞
GAS GATE VALVE	⊞	⊞
UTILITY POLE	⊞	⊞
GUY POLE	⊞	⊞
GUY WIRE	⊞	⊞
OVERHEAD UTILITIES	—OHU—	
LIGHT POST	*	
EDGE OF PAVEMENT	---	---
EDGE OF UNPAVED ROAD	---	---
CURB	---	---
CONCRETE SIDEWALK	CONC WALK	---
BITUMINOUS SIDEWALK	BIT WALK	---
STONE WALL	---	---
RETAINING WALL	RET WALL	RET WALL
WIRE FENCE	---	---
CHAIN LINK FENCE	---	---
DECIDUOUS TREE	⊙	⊙
EVERGREEN TREE	⊙	⊙
TREE LINE	---	---
CONTROL/SURVEY POINT	⊙	
BENCH MARK	⊙	
PROPERTY LINE	---	---
EASEMENT LINE	---	---
CONTOUR	---	---
SPOT ELEVATIONS	x 100.2	x101.5
BUILDING/BUILDING NUMBER	#35	
FLOOR ELEVATION	FF=56.7	
SILL ELEVATION	S=56.7	
LIMIT OF WORK	---	---
WETLAND/WETLAND FLAG/RIVERFRONT FLAG	X2... RA1	
200' RIVERFRONT AREA	RF	
100' WETLAND SETBACK	WLS	
EDGE OF WATER	---	---
DRAINAGE SWALE	---	---
RIP RAP	---	---
BOLLARD	B	OB
SIGN	---	---
GUIDE RAIL	---	---
TEST PIT	⊙	⊙
BORING	⊙	⊙
PROBE	⊙	⊙
HAY BALES	---	---
STRAW WATTLE	---	---
ROCK OUTCROP	---	---

NOTE: ITEMS SHOWN IN THE LEGEND MAY NOT BE PRESENT IN THESE PLANS


ABBREVIATIONS

AC	ASBESTOS CEMENT PIPE
ACCOMP	ASPHALT COATED CORRUGATED METAL PIPE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BC	BITUMINOUS CONCRETE, BITUMINOUS CONCRETE LIP CURB
BIT	BITUMINOUS
BLDG	BUILDING
BM	BENCH MARK
BoV	BOUNDARY VALVE
CATV	CABLE TELEVISION
CB	CATCH BASIN
CC	CONCRETE CURB
CI	CAST IRON
⊙	CENTERLINE
CMP	CORRUGATED METAL PIPE
CNO	COULD NOT OPEN
CONC	CONCRETE
CPP	CORRUGATED PLASTIC PIPE
CU FT	CUBIC FEET
CY	CUBIC YARD
D	STORM DRAIN
DI	DROP INLET, DUCTILE IRON
DIA, ⌀	DIAMETER
DINV	DEPTH TO INVERT OF EXISTING PIPE
DMH	DRAIN MANHOLE
E	ELECTRIC, EAST
EA	EACH
ELEV	ELEVATION
EOP	EDGE OF PAVEMENT
EW	EACH WAY
EX	EXISTING
FT	FEET, FOOT
G	NATURAL GAS
GALV	GALVANIZED
GC	GRANITE CURB
HC	HOUSE CONNECTION
HP	HIGH PRESSURE
HYD	FIRE HYDRANT
INV	INVERT
ID	INSIDE DIAMETER
IP	IRON PIPE
LF	LINEAR FEET
LS	LUMP SUM
MASSDOT	MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
MAX	MAXIMUM
MB	MAIL BOX
MECH	MECHANICAL
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
N	NORTH
NC	NORMALLY CLOSED
NF	NOW OR FORMERLY, NOT FOUND
NO OR #	NUMBER
PE	POLYETHYLENE
PL	PROPERTY LINE
PVC	POLYVINYL CHLORIDE
PR	PROPOSED
PVMT	PAVEMENT
RC	REINFORCED CONCRETE
ROW	RIGHT-OF-WAY
S	SEWER, SOUTH
SF	SQUARE FEET
SPEC	SPECIFICATIONS
SQ FT	SQUARE FEET
SS	SEWER SERVICE
STA	STATION
SW	SIDEWALK
T	TELEPHONE
TBM	TEMPORARY BENCH MARK
TC	TOP OF CURB
TL	TRAFFIC LOOP
TW	TEMPORARY WATER LINE
TYP	TYPICAL
UP	UTILITY POLE
VC	VITRIFIED CLAY
VERT	VERTICAL
W	WATER, WEST
YD	YARD DRAIN

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL CALL DIGSAFE AT 1-888-344-7233 AT LEAST 72 HOURS, SATURDAYS, SUNDAYS, AND HOLIDAYS EXCLUDED, PRIOR TO EXCAVATING AT ANY LOCATION. A COPY OF THE DIGSAFE PROJECT REFERENCE NUMBER(S) SHALL BE GIVEN TO THE OWNER PRIOR TO EXCAVATION.
2. LOCATIONS OF EXISTING PIPES, CONDUITS, UTILITIES, FOUNDATIONS AND OTHER UNDERGROUND OBJECTS ARE NOT WARRANTED TO BE CORRECT AND THE CONTRACTOR SHALL HAVE NO CLAIM ON THAT ACCOUNT SHOULD THEY BE OTHER THAN SHOWN.
3. TEST PITS TO LOCATE EXISTING UTILITIES SHALL BE PERFORMED WHERE SHOWN ON THE PLANS OR WHERE REQUIRED BY THE ENGINEER. TEST PITS SHALL BE PERFORMED PRIOR TO CONSTRUCTION.
4. STONE WALLS, FENCES, MAIL BOXES, SIGNS, CURBS, LIGHT POLES, ETC. SHALL BE REMOVED AND RESET OR REPLACED AS NECESSARY TO PERFORM THE WORK. UNLESS OTHERWISE INDICATED, ALL SUCH WORK SHALL BE INCIDENTAL TO THE PROJECT.
5. ALL PAVEMENT DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS AND AS SHOWN ON THE DRAWINGS.
6. ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND PAYMENT LIMITS SHALL BE RESTORED AT NO ADDITIONAL COST TO THE OWNER.
7. THE CONTRACTOR SHALL NOT STORE ANY APPARATUS, MATERIALS, SUPPLIES, OR EQUIPMENT ON DRAINAGE STRUCTURES OR WITHIN 100 FEET OF WETLANDS.
8. THE CONTRACTOR SHALL RETAIN THE SERVICES OF A SURVEYOR LICENSED IN THE COMMONWEALTH OF MASSACHUSETTS TO COMPLETE ALL LAYOUTS, SURVEYS, BENCHMARK TRANSFERS, ETC. REQUIRED FOR CONSTRUCTION OF THE PROJECT.
9. INLET PROTECTION SHALL BE PROVIDED AND MAINTAINED ON ALL CATCH BASINS FOR THE DURATION OF THE PROJECT.
10. EXISTING UTILITIES, TOPOGRAPHY, EDGE OF PAVEMENT, UTILITY POLE LOCATIONS, SIDEWALKS AND LOCATIONS OF ABOVE GROUND STRUCTURES FROM FIELD OBSERVATIONS AND INVENTORY PERFORMED JULY 2023 BY WESTON & SAMPSON ENGINEERS, INC.
11. ELEVATIONS SHOWN BASED UPON NAVD88 AND HORIZONTAL COORDINATES BASED UPON MASSACHUSETTS STATE PLANE. GPS LOCATIONS PROVIDED BY WESTON & SAMPSON ENGINEERS, INC.
12. PROPERTY LINE INFORMATION BASED ON MAPPING PROVIDED BY MASSGIS LEVEL 3 PROPERTY TAX PARCEL DATA.
13. CONTACT INFORMATION:
WAREHAM HIGHWAY DEPARTMENT : DAVE MENARD, 508-295-5300

Project:
HIGHLAND AVENUE
SIDEWALK REPLACEMENT



HIGHLAND AVENUE,
WAREHAM, MA, 02558


Weston & Sampson
Weston & Sampson Engineers, Inc.
85 Devonshire Street, 3rd Floor
Boston, MA 02109
978.532.1900 800.SAMPSON
www.westonandsampson.com

Consultants:

Revisions:

No.	Date	Description

Seal:



Issued For:
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Scale: AS NOTED

Date: DECEMBER 2023

Drawn By: WGS

Reviewed By: CBW

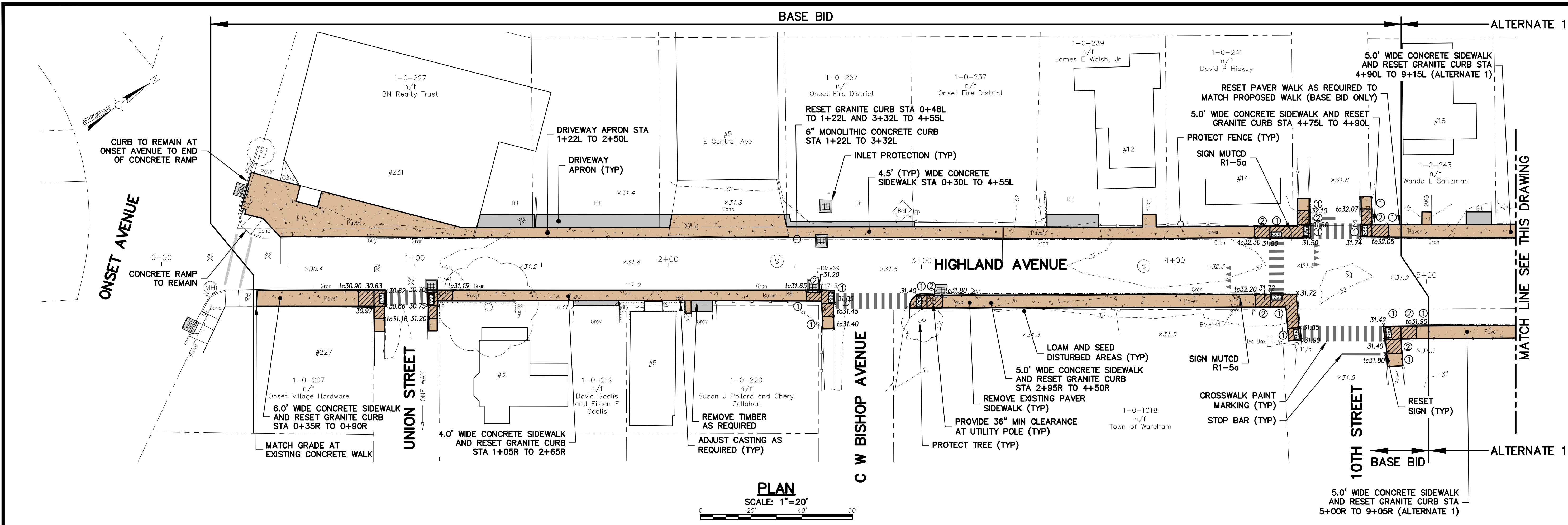
Approved By: CBW

W&S Project No: ENG23-0636

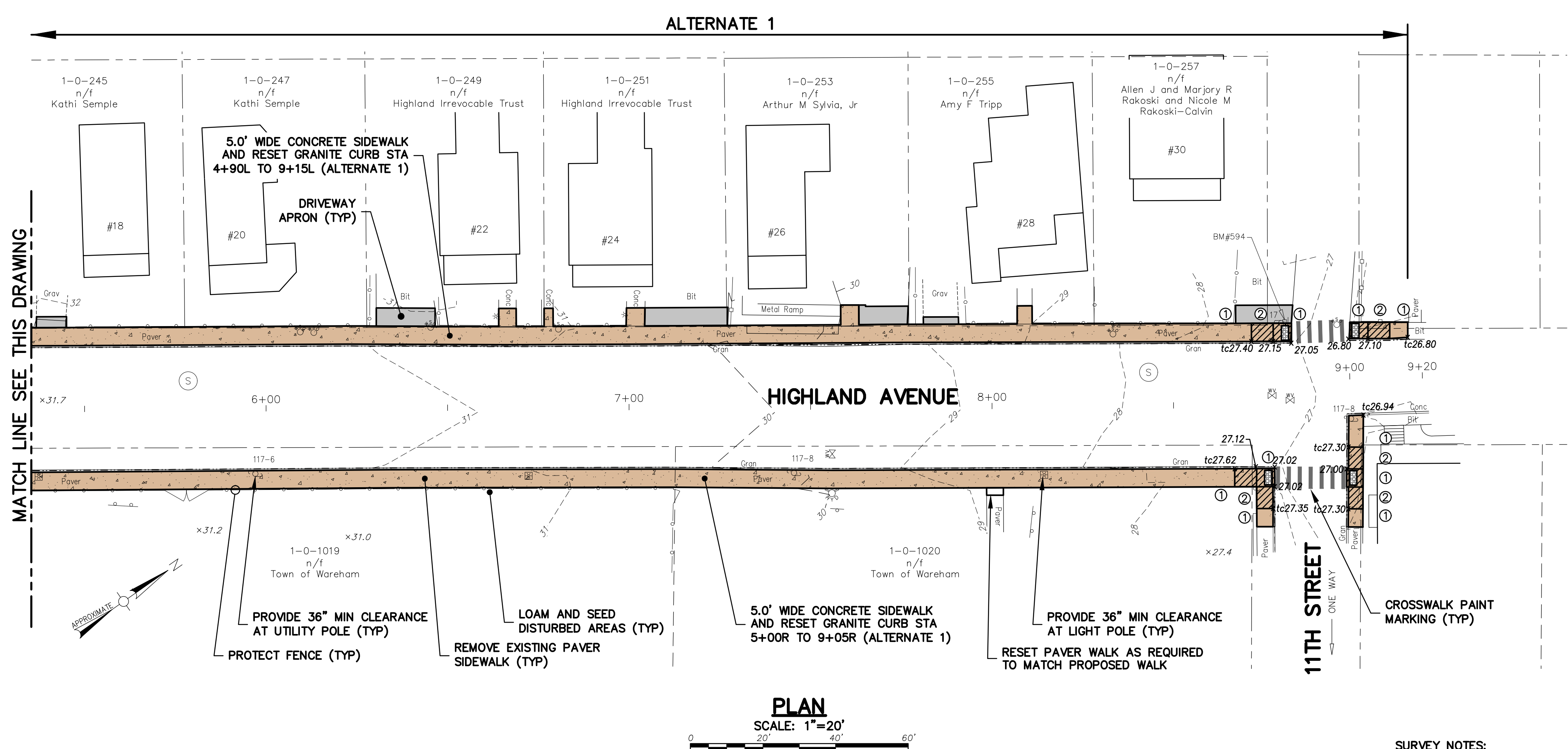
W&S File No:

Drawing Title:
**LEGEND,
ABBREVIATIONS,
AND NOTES**

Sheet Number:
C100



PLAN
SCALE: 1"=20'
0 20' 40' 60'



PLAN
SCALE: 1"=20'
0 20' 40' 60'

RAMP LEGEND

①	LANDING AREA
②	RAMP

- SURVEY NOTES:**
- EXISTING CONDITIONS INFORMATION IS BASED ON FIELD OBSERVATIONS AND INVENTORY PERFORMED BY WESTON & SAMPSON ENGINEERS, INC ON JUNE 29, 2023.
 - ELEVATIONS ARE IN DECIMAL FEET AND ARE BASED ON THE DATUM OF NAVD88.
 - PROPOSED ELEVATIONS SHALL BE MODIFIED AS REQUIRED TO MATCH FIELD CONDITIONS AND TO MEET ADA REQUIREMENTS.

Project:
HIGHLAND AVENUE
SIDEWALK REPLACEMENT

HIGHLAND AVENUE,
WAREHAM, MA, 02558

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Consultants:

Revisions:

No.	Date	Description

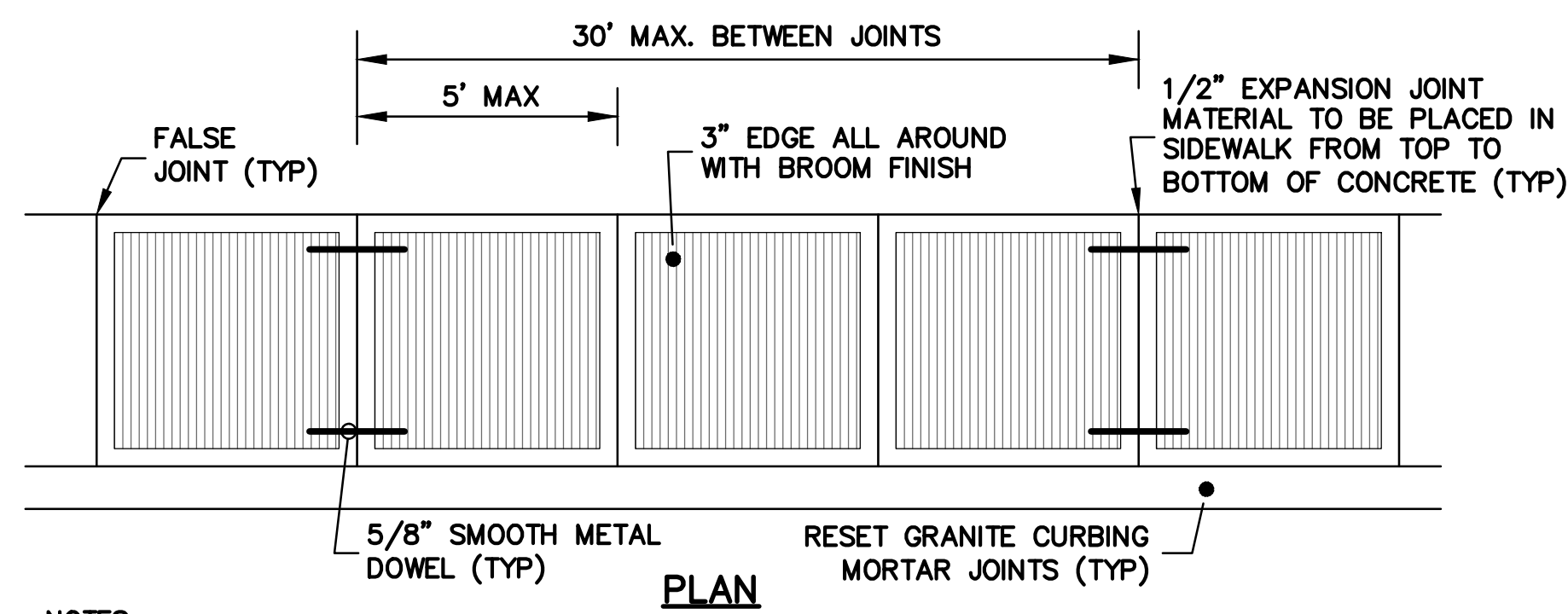
Seal:
CHRISTOPHER J. WATSON
REGISTERED PROFESSIONAL ENGINEER

Issued For:
BID DOCUMENTS

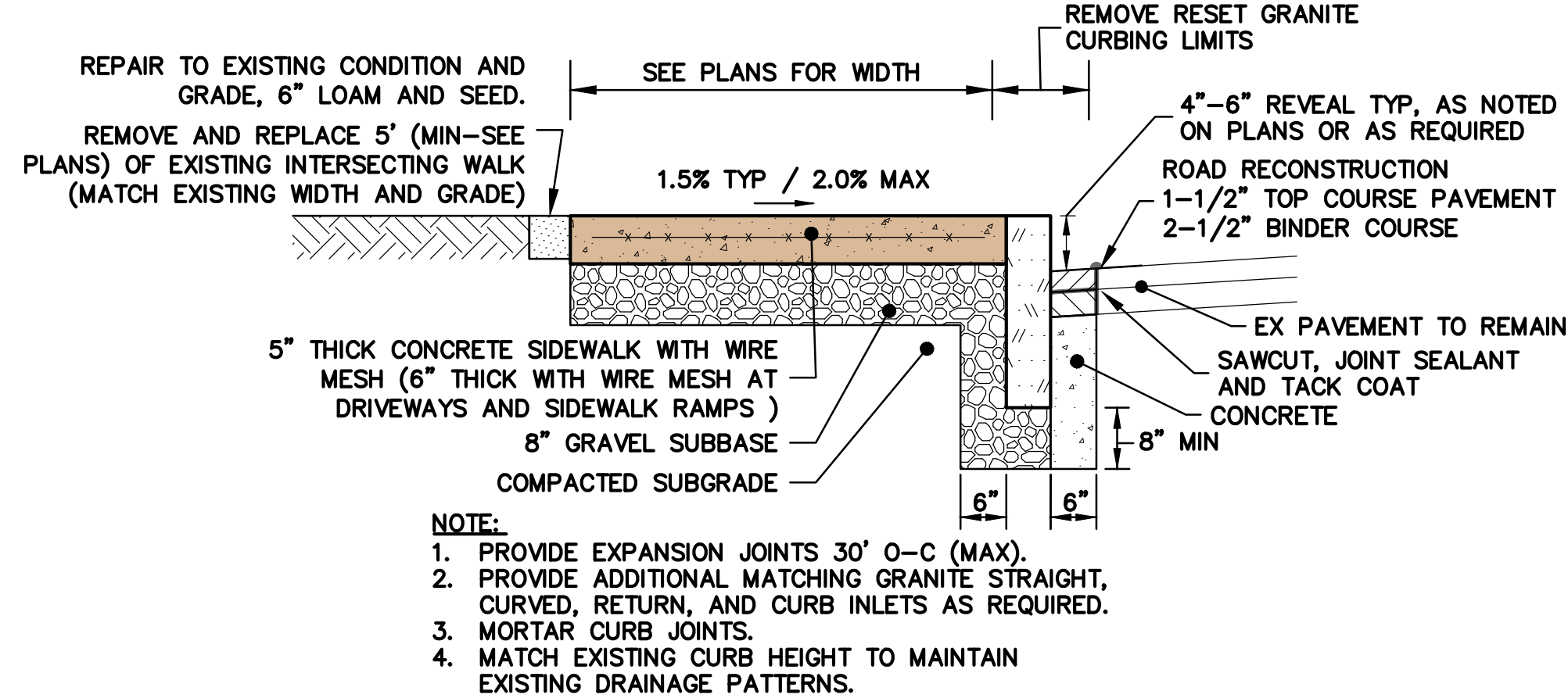
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Date: DECEMBER 2023
Drawn By: WGS
Reviewed By: CBW
Approved By: CBW
W&S Project No: ENG23-0636
W&S File No:

Drawing Title:
**PROPOSED
IMPROVEMENTS
STA 0+00 TO 9+15**

Sheet Number:
C100

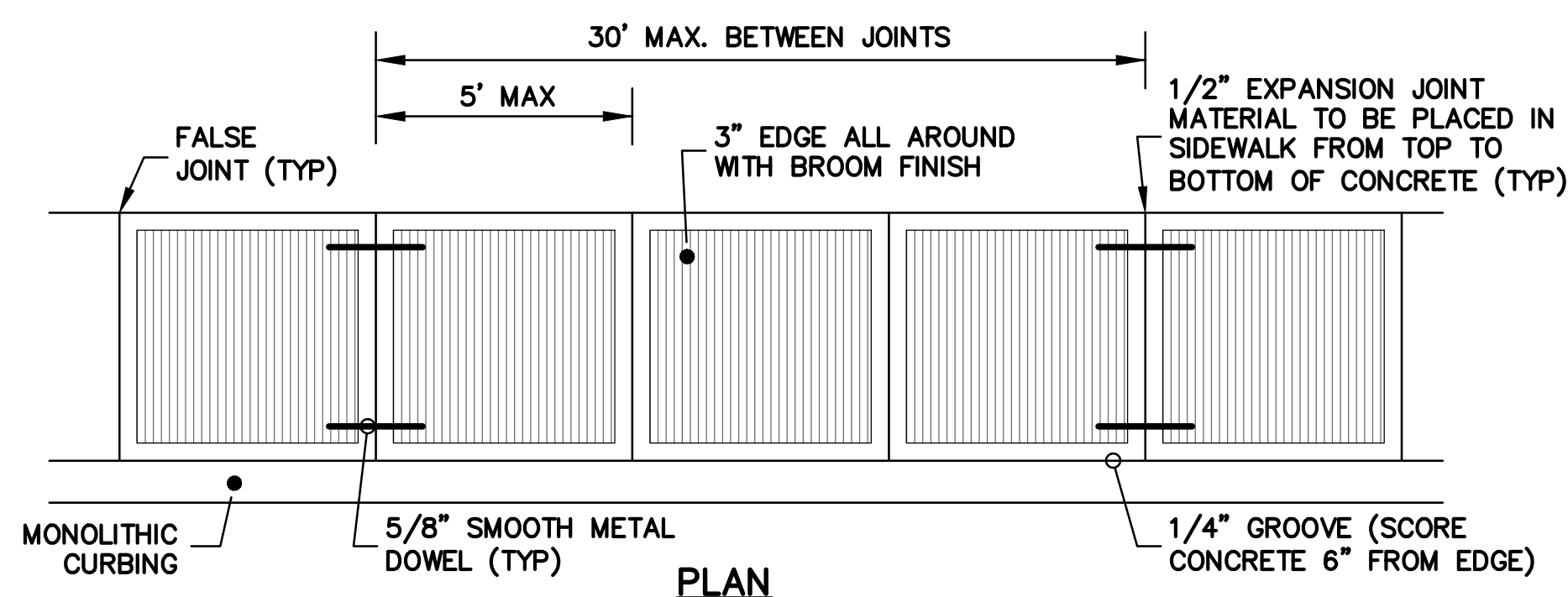


- NOTES:
- MATCH WIDTH OF EXISTING SIDEWALK AT END PANEL. END PANEL TO BE WIDTH OF PROPOSED WALK, TAPERING TO EXISTING WALK AND SHALL HAVE EXPANSION JOINT ON BOTH SIDES.
 - PROVIDE EXPANSION JOINT MATERIAL AT UTILITY POLES, HYDRANTS, LIGHT POSTS, ETC.

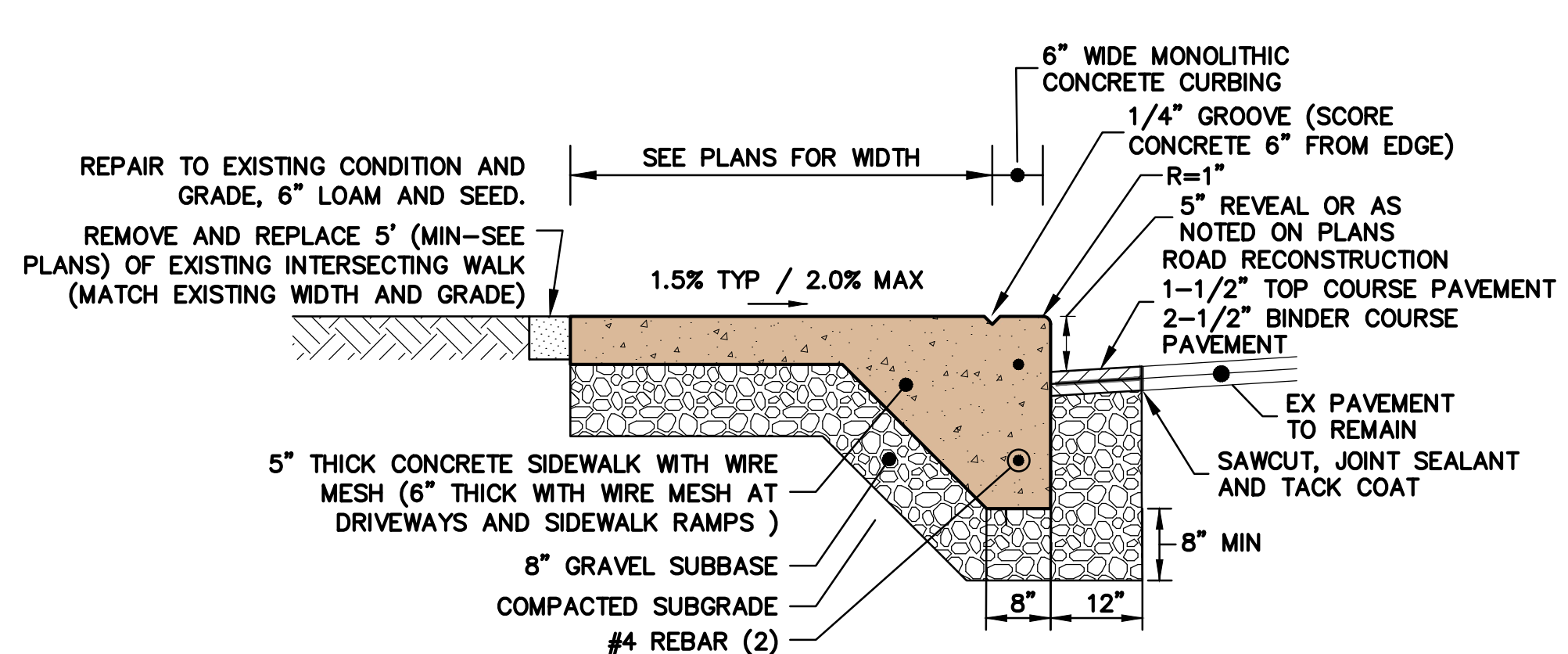


- NOTE:
- PROVIDE EXPANSION JOINTS 30' O-C (MAX).
 - PROVIDE ADDITIONAL MATCHING GRANITE STRAIGHT, CURVED, RETURN, AND CURB INLETS AS REQUIRED.
 - MORTAR CURB JOINTS.
 - MATCH EXISTING CURB HEIGHT TO MAINTAIN EXISTING DRAINAGE PATTERNS.

CONCRETE SIDEWALK AND RESET GRANITE CURB DETAIL
N.T.S.

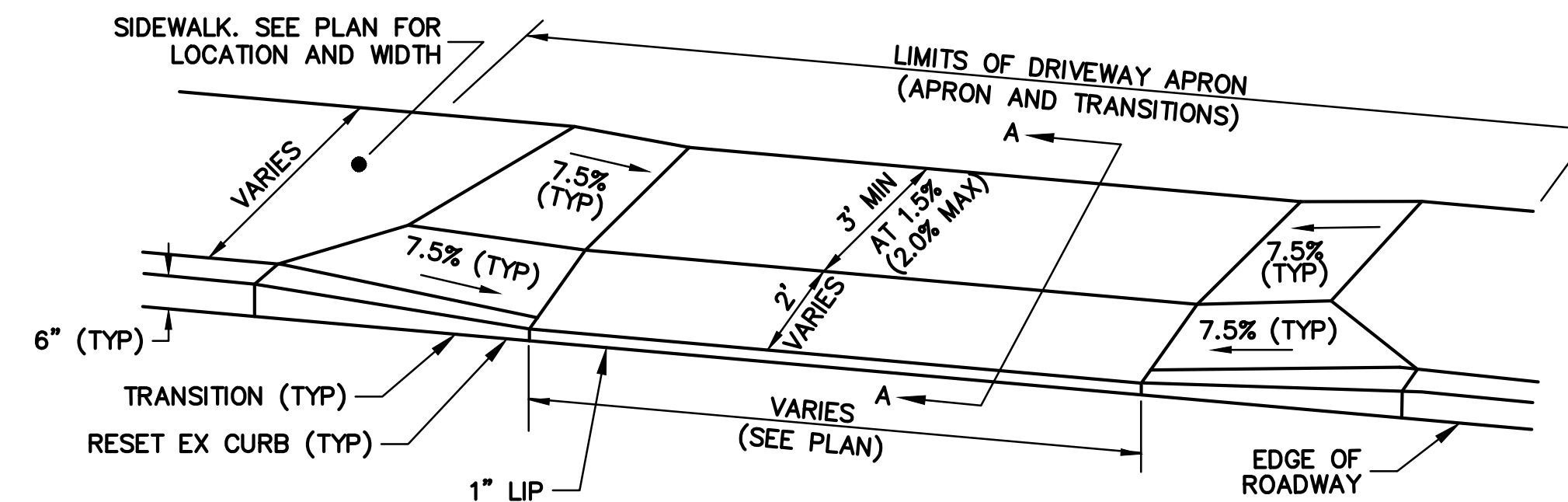
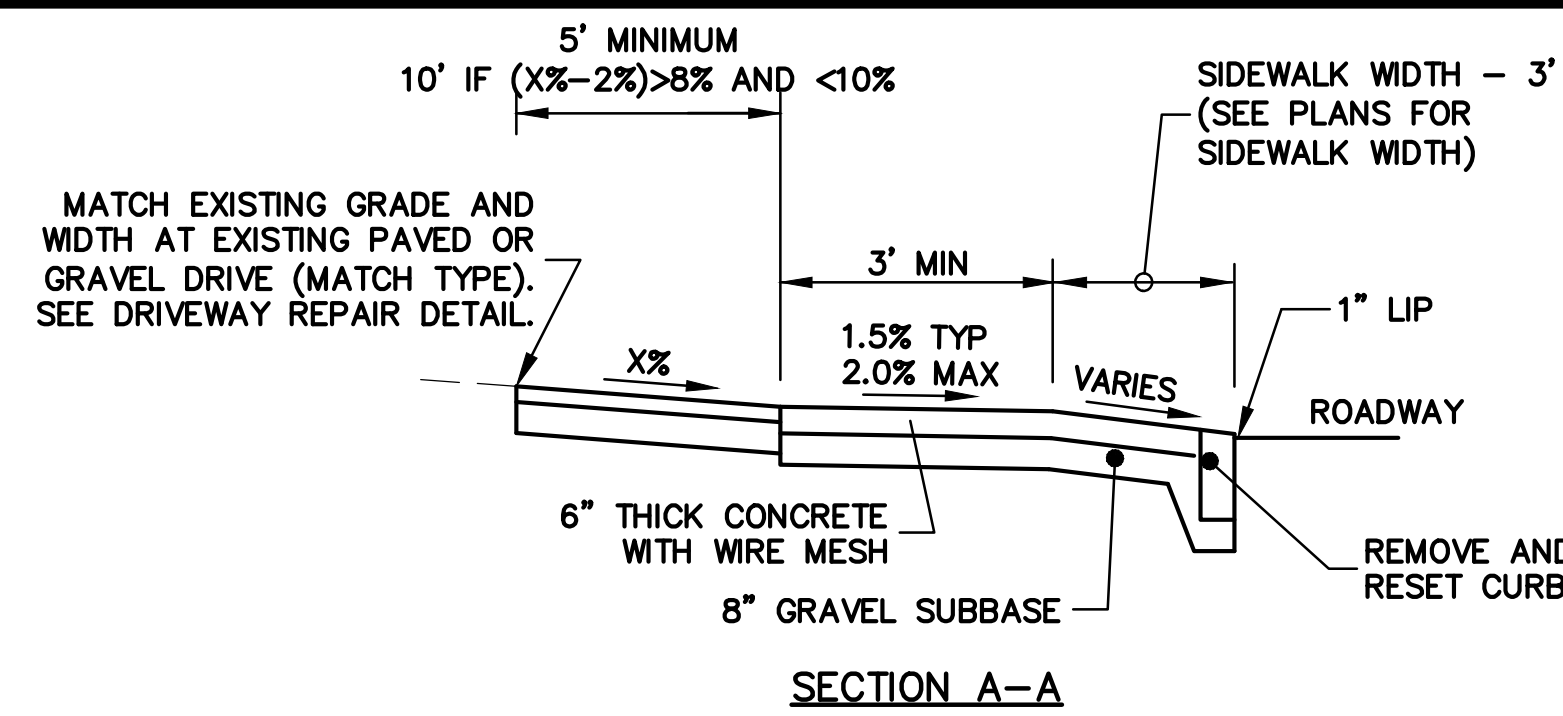


- NOTES:
- MATCH WIDTH OF EXISTING SIDEWALK AT END PANEL. END PANEL TO BE WIDTH OF PROPOSED WALK, TAPERING TO EXISTING WALK AND SHALL HAVE EXPANSION JOINT ON BOTH SIDES.



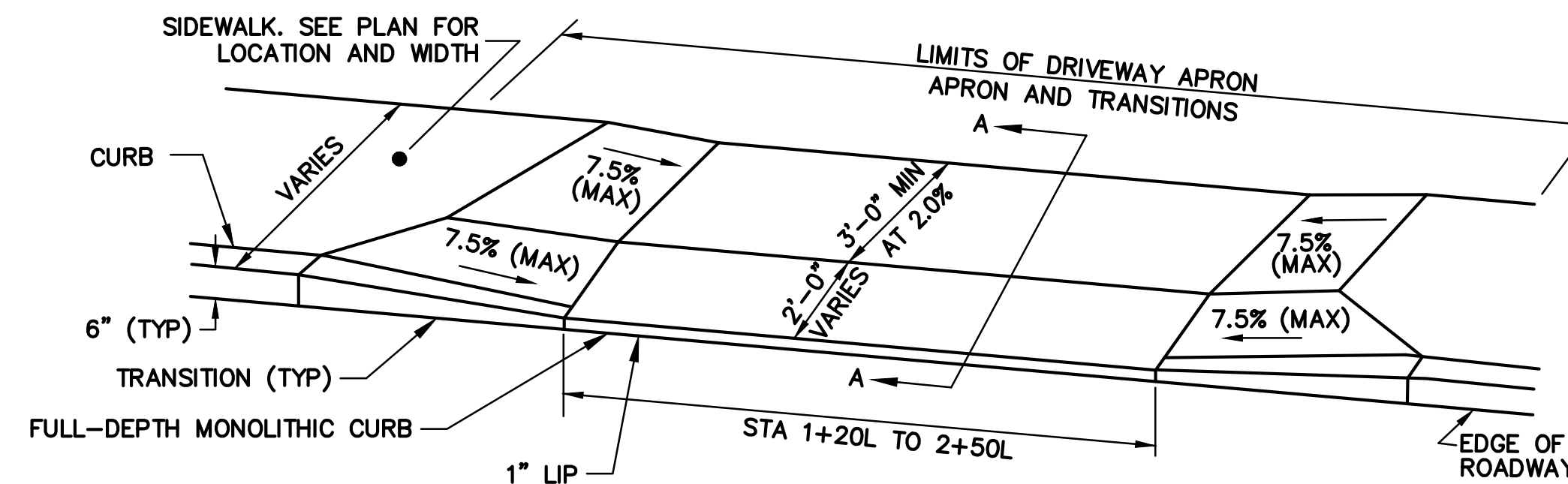
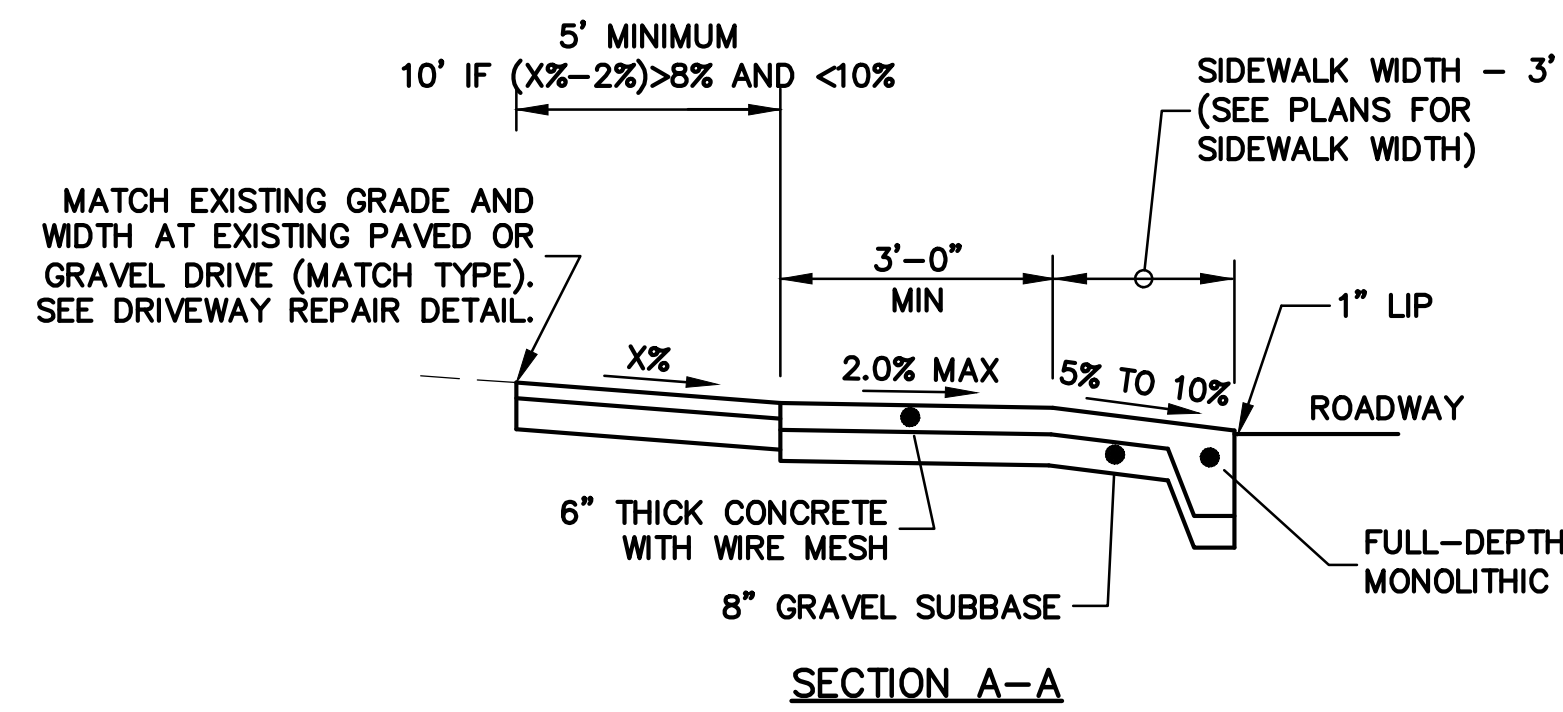
- NOTE:
- PROVIDE EXPANSION JOINTS 30' O-C (MAX).
 - TOTAL DEPTH OF MONOLITHIC CURB TO BE 20".
 - SAWCUT EXISTING PAVEMENT.

CONCRETE SIDEWALK AND MONOLITHIC CURB DETAIL
N.T.S.



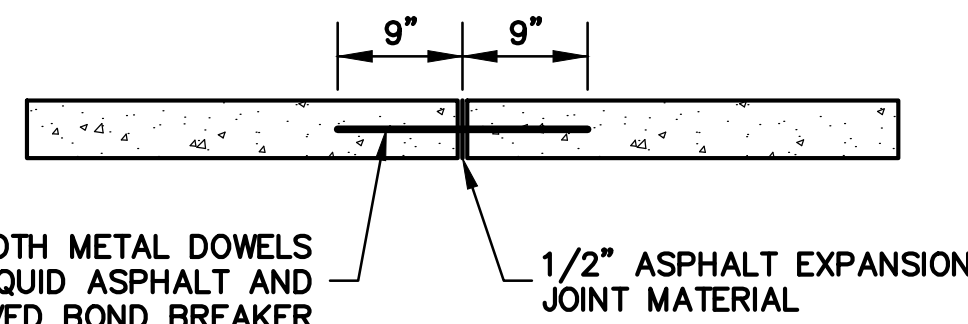
- NOTES:
- CONTRACTOR TO CONFIRM EXISTING GRADES AND NOTIFY ENGINEER IF ANY SLOPES EXCEED THOSE SHOWN PRIOR TO INSTALLATION.
 - IF X%-2% IS GREATER THAN 10% THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION.
 - 8.0% MAXIMUM RAMP SLOPE.

CONCRETE DRIVEWAY APRON DETAIL AT SIDEWALK
N.T.S.

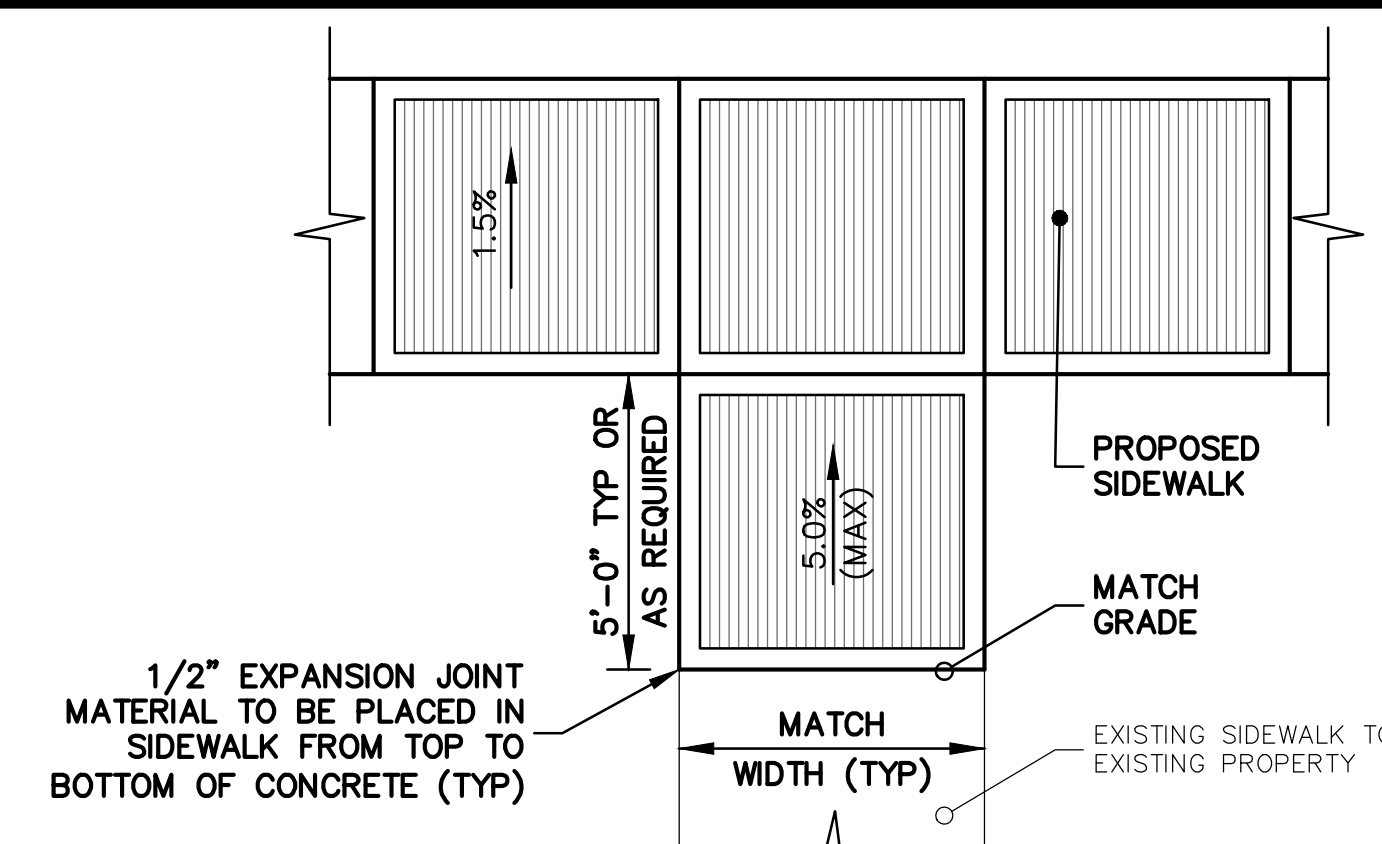


- NOTES:
- CONTRACTOR TO CONFIRM EXISTING GRADES AND NOTIFY ENGINEER IF ANY SLOPES EXCEED THOSE SHOWN PRIOR TO INSTALLATION.
 - IF X%-2% IS GREATER THAN 10% THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION.

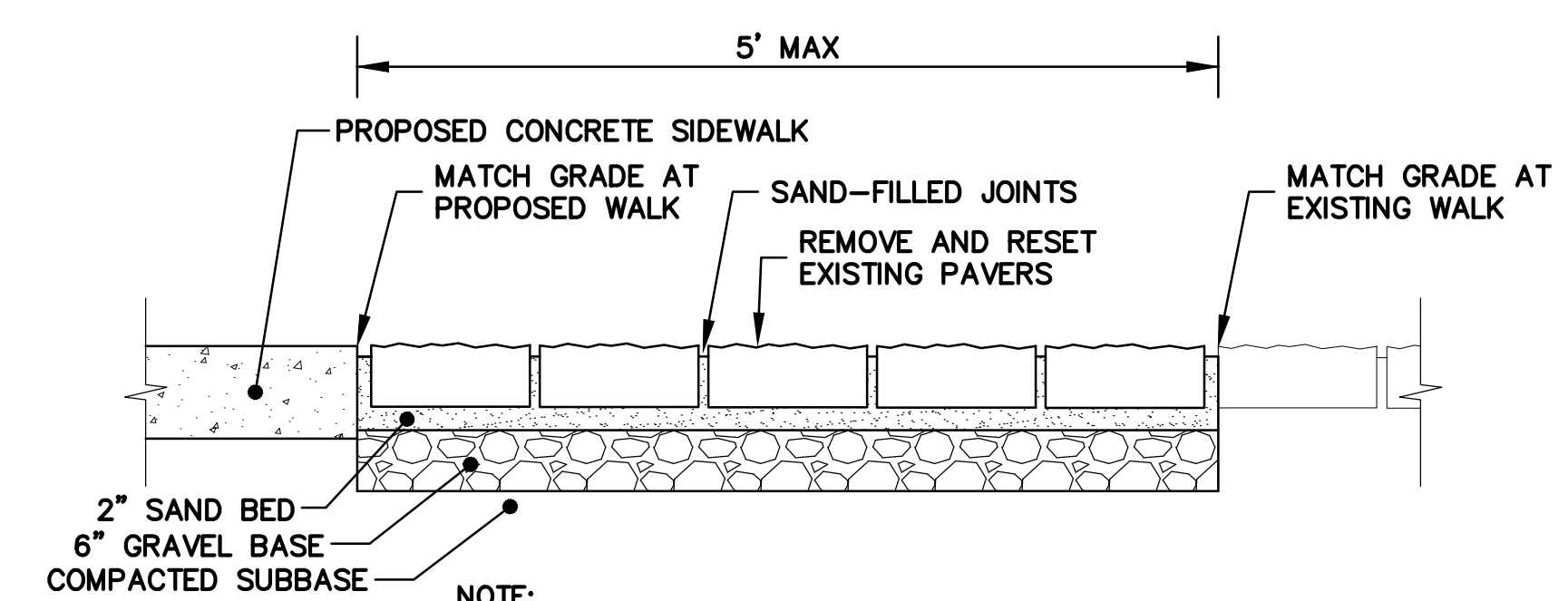
CONCRETE DRIVEWAY APRON DETAIL AT SIDEWALK STATION 1+20L TO 2+50L
N.T.S.



EXPANSION JOINT DETAIL
N.T.S.

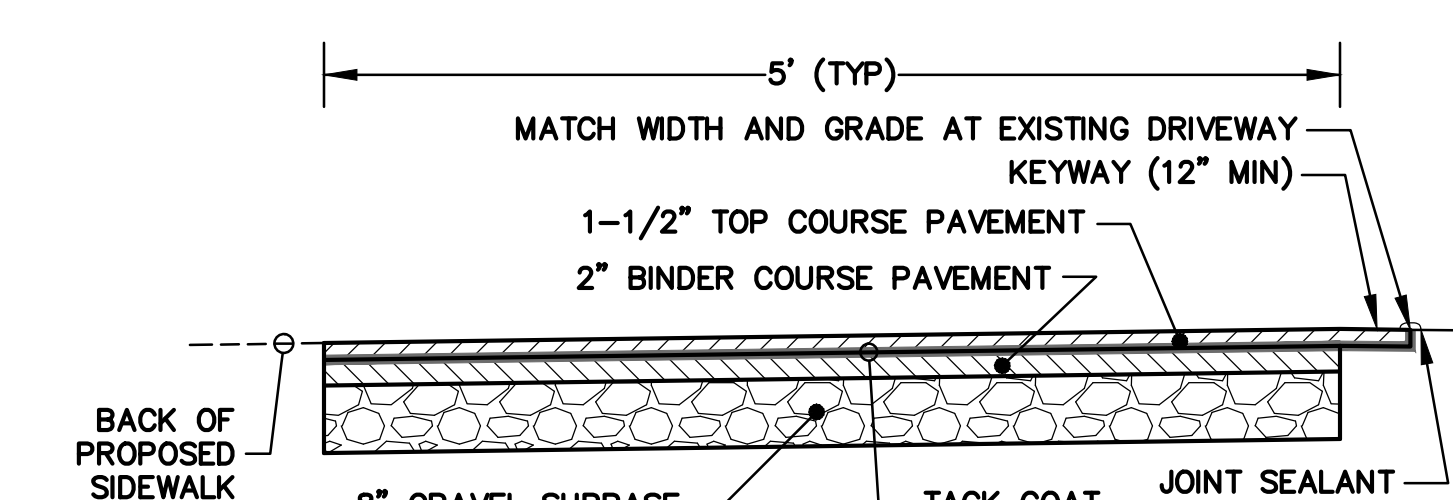


CONCRETE SIDEWALK AT PRIVATE PROPERTY SIDEWALK DETAIL
N.T.S.



- NOTE:
- MATCH PATTERN. CUT PAVERS AS REQUIRED.

RESET PAVER WALK DETAIL
N.T.S.



BITUMINOUS DRIVEWAY REPAIR
N.T.S.



Project:
HIGHLAND AVENUE
SIDEWALK REPLACEMENT

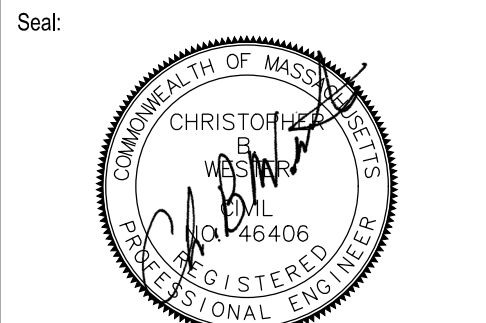
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Revisions:

No.	Date	Description



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Drawn By: WGS

Reviewed By: CBW

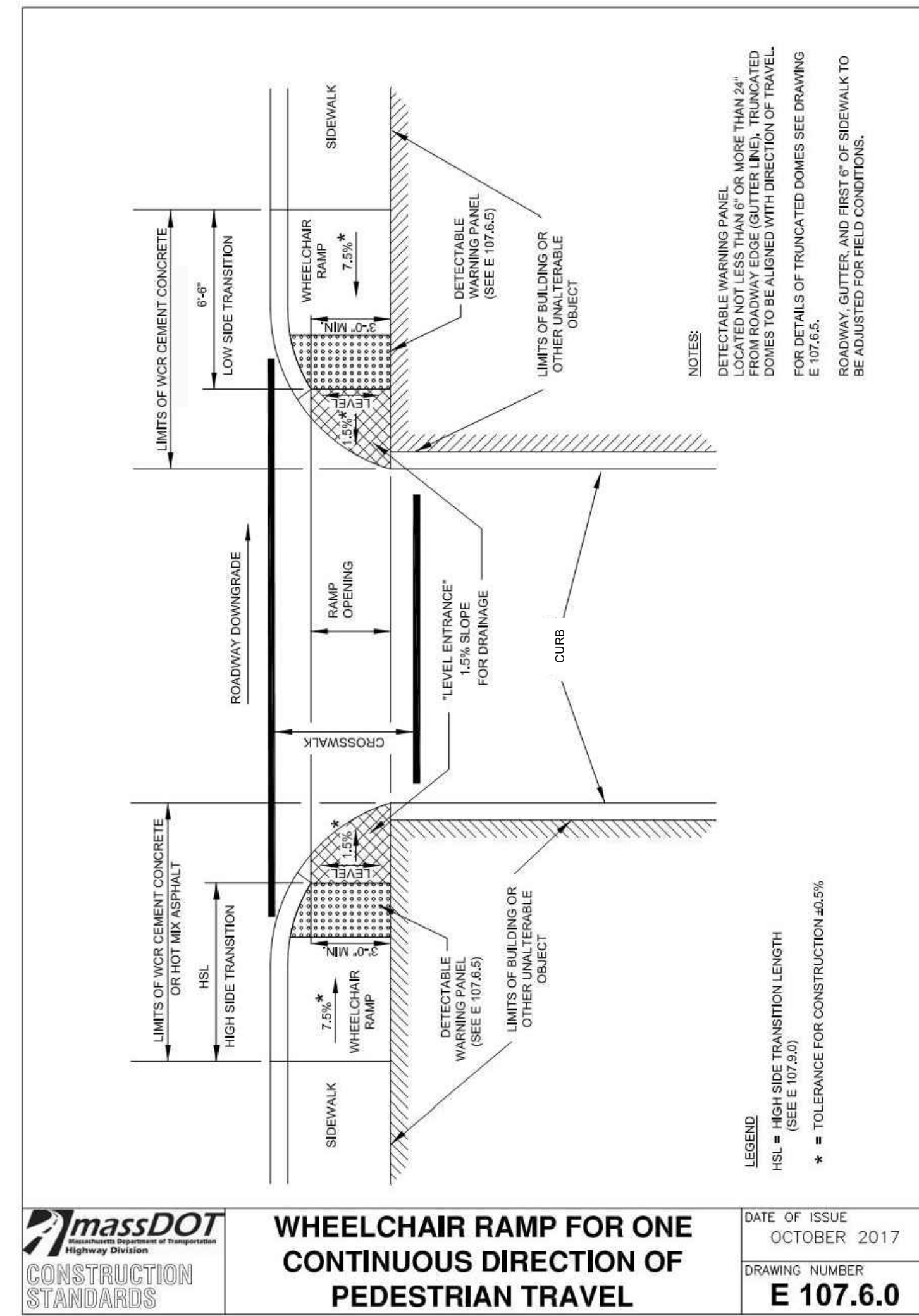
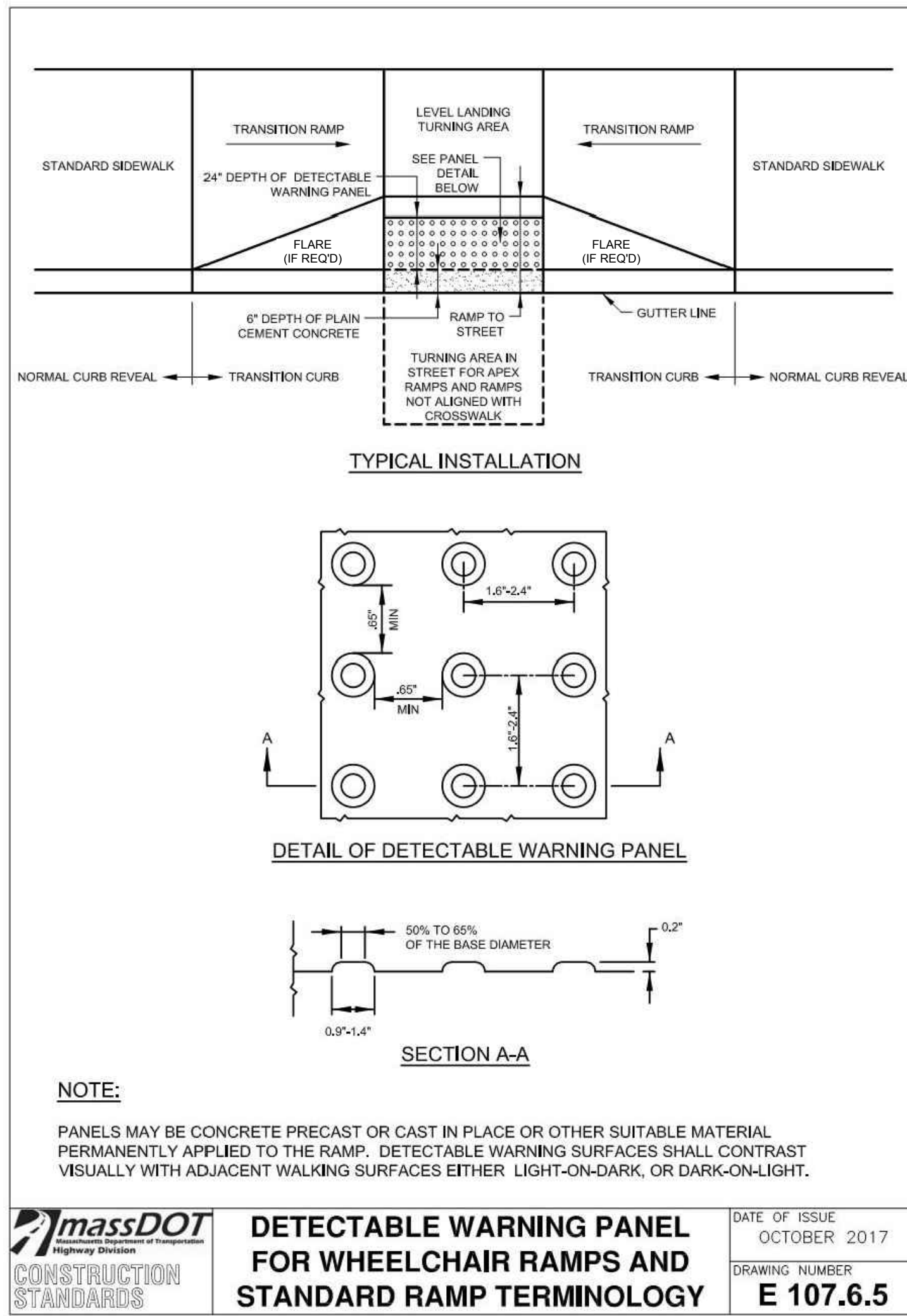
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W&S Project No: ENG23-0636

W&S File No:

Drawing Title:
DETAILS 1

Sheet Number:
C101



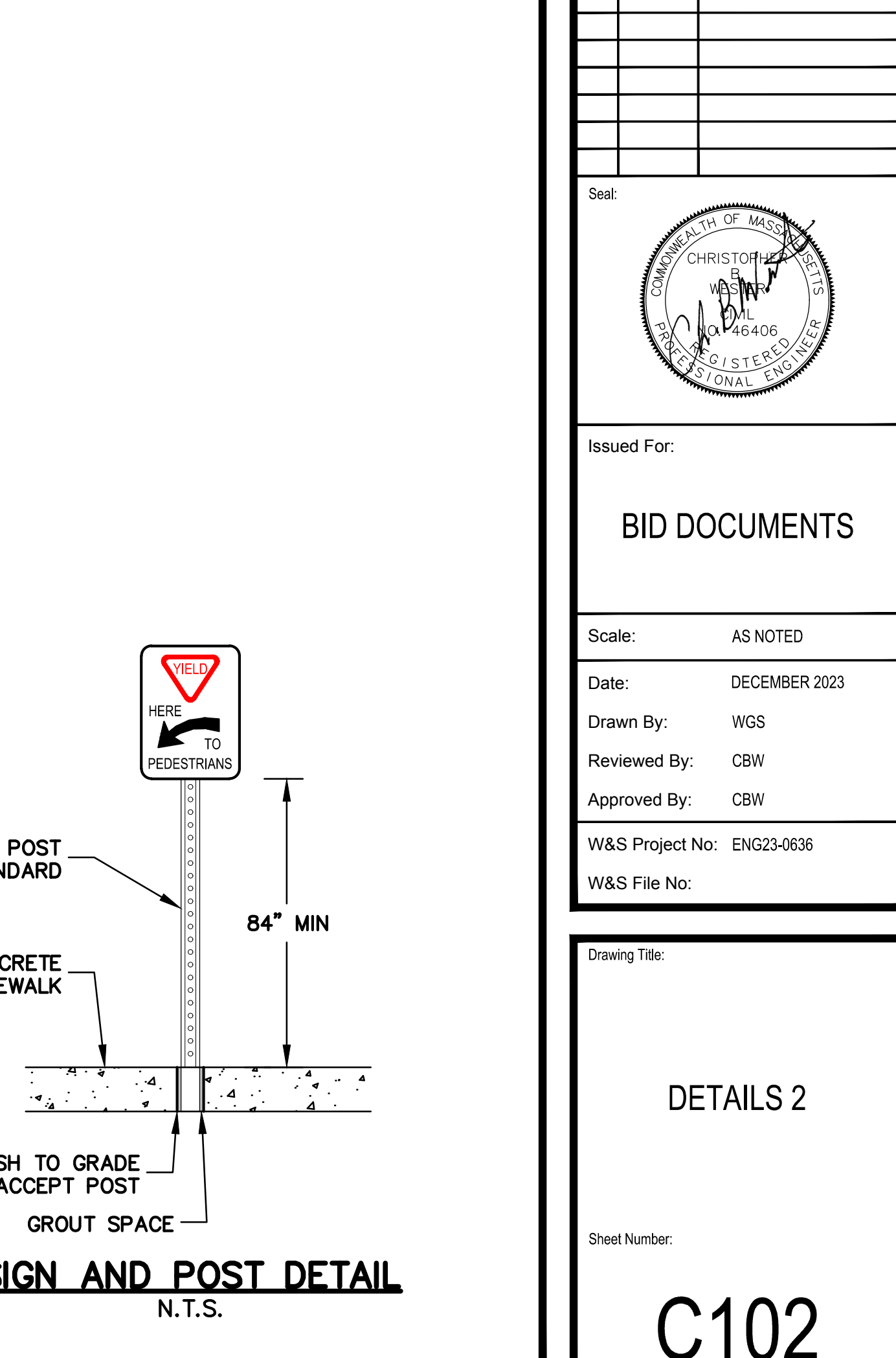
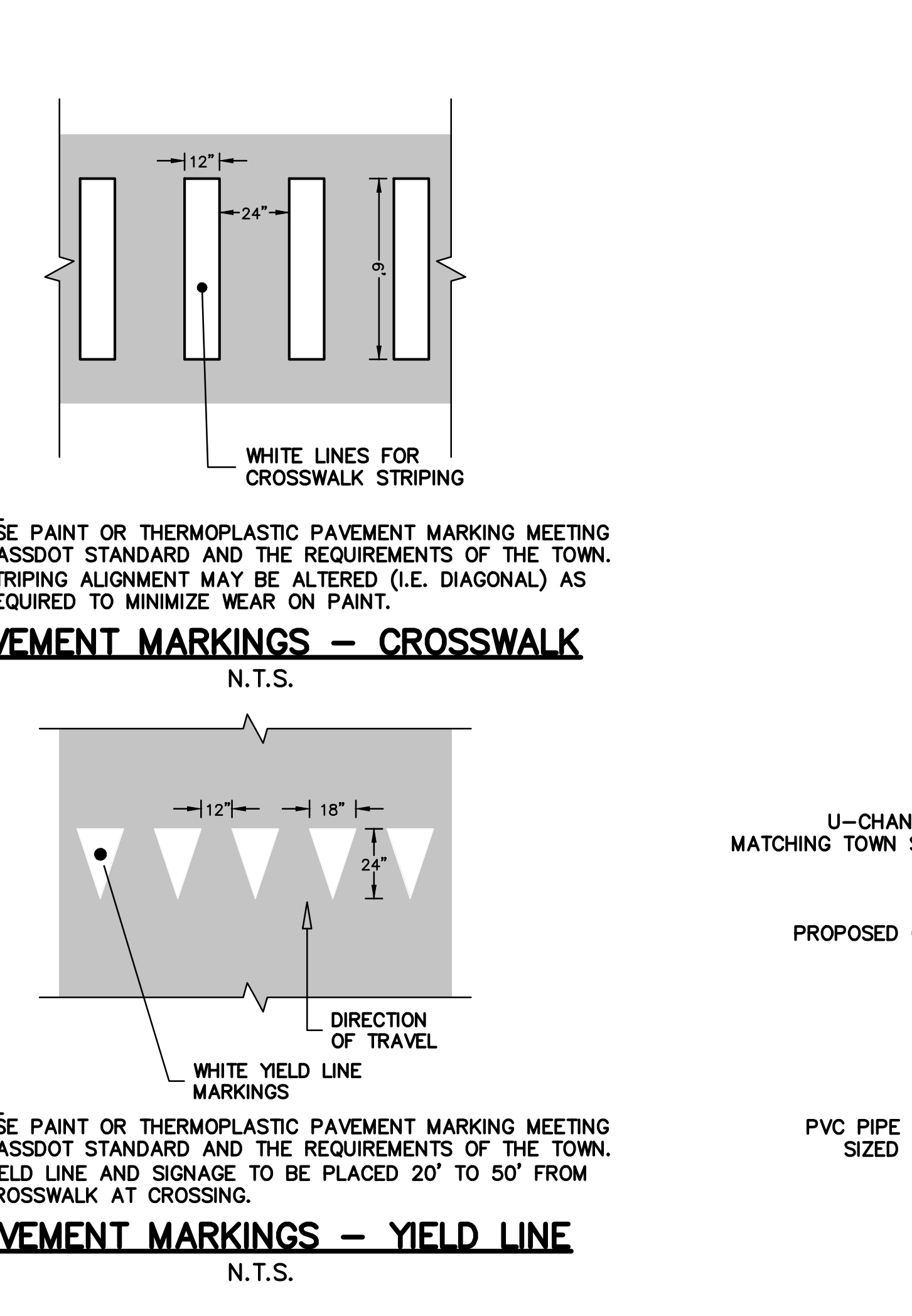
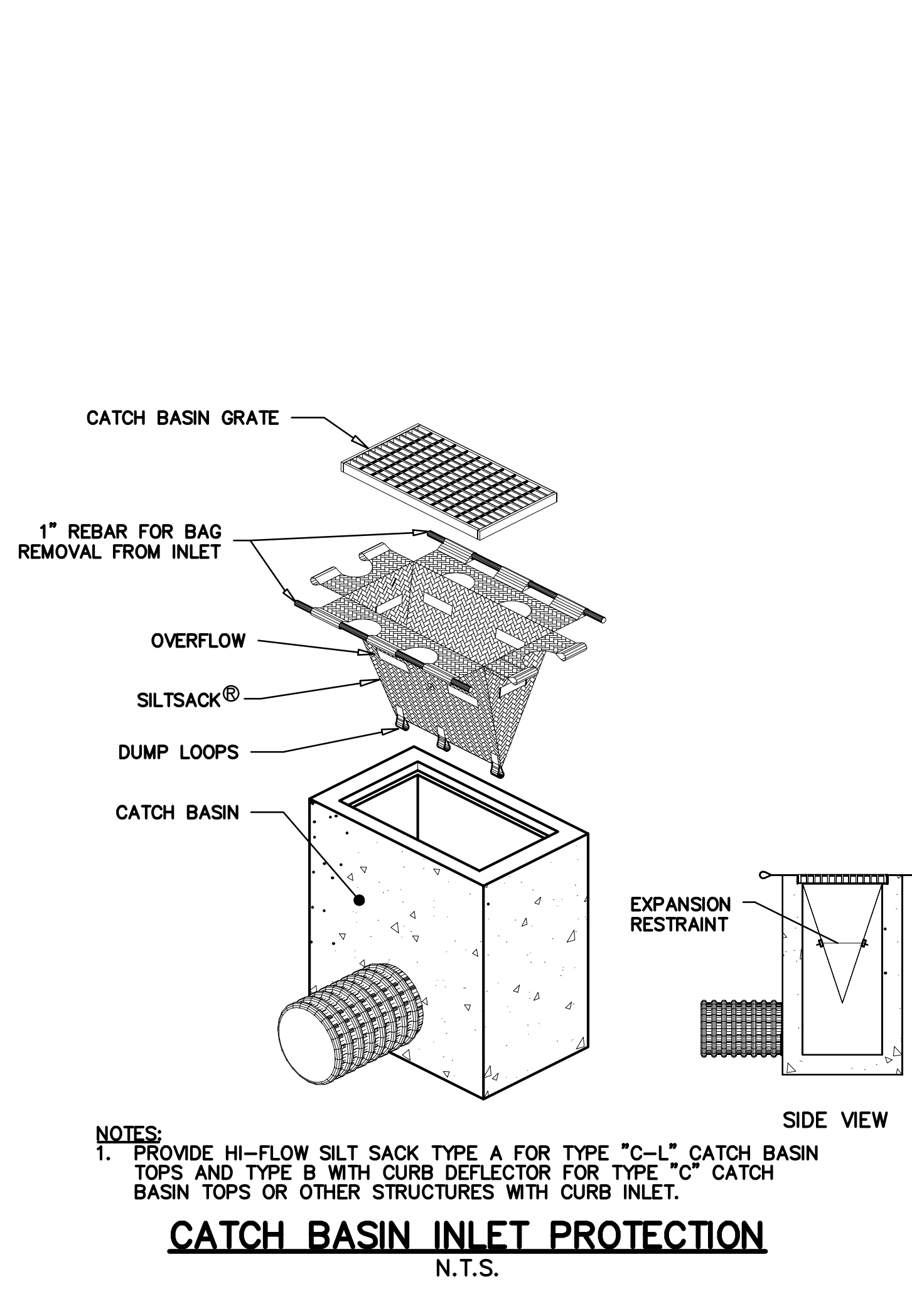
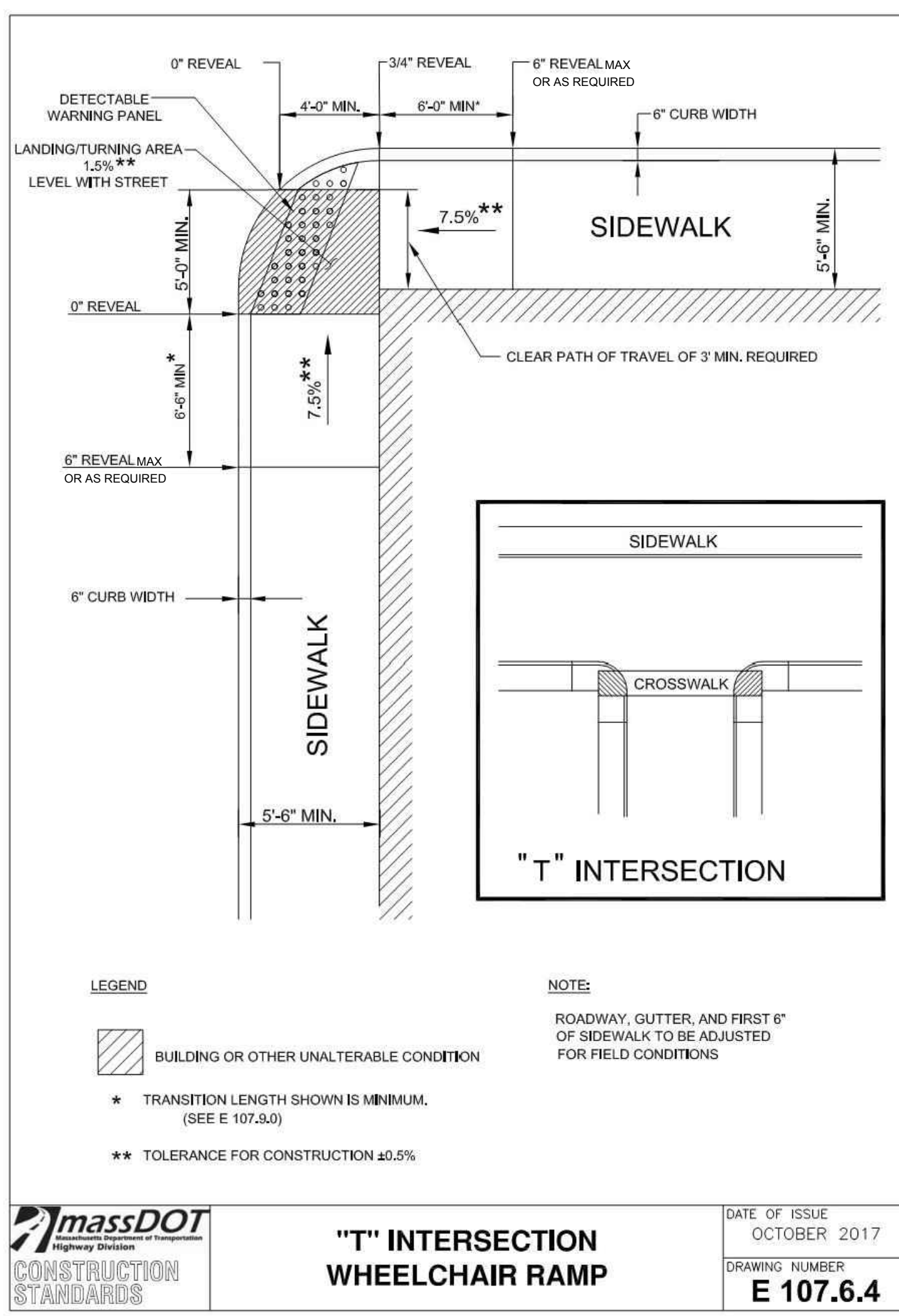
massDOT
 Highway Division
 CONSTRUCTION STANDARDS

CURB TRANSITION LENGTH FOR WHEELCHAIR RAMPS

DATE OF ISSUE: OCTOBER 2017
 DRAWING NUMBER: **E 107.9.0**

ROADWAY PROFILE GRADE	* HIGH SIDE TRANSITION LENGTH
%	ENGLISH UNITS
=0%	6'-6"
>0% TO 1%	7'-9"
>1% TO 2%	9'-0"
>2% TO 3%	11'-0"
>3% TO 4%	14'-0"
>4% TO 5%	15'-0" Max

NOTE:
 * BASED ON A DESIGN SLOPE OF 7.5% AND A REVEAL OF 6".



Consultants:

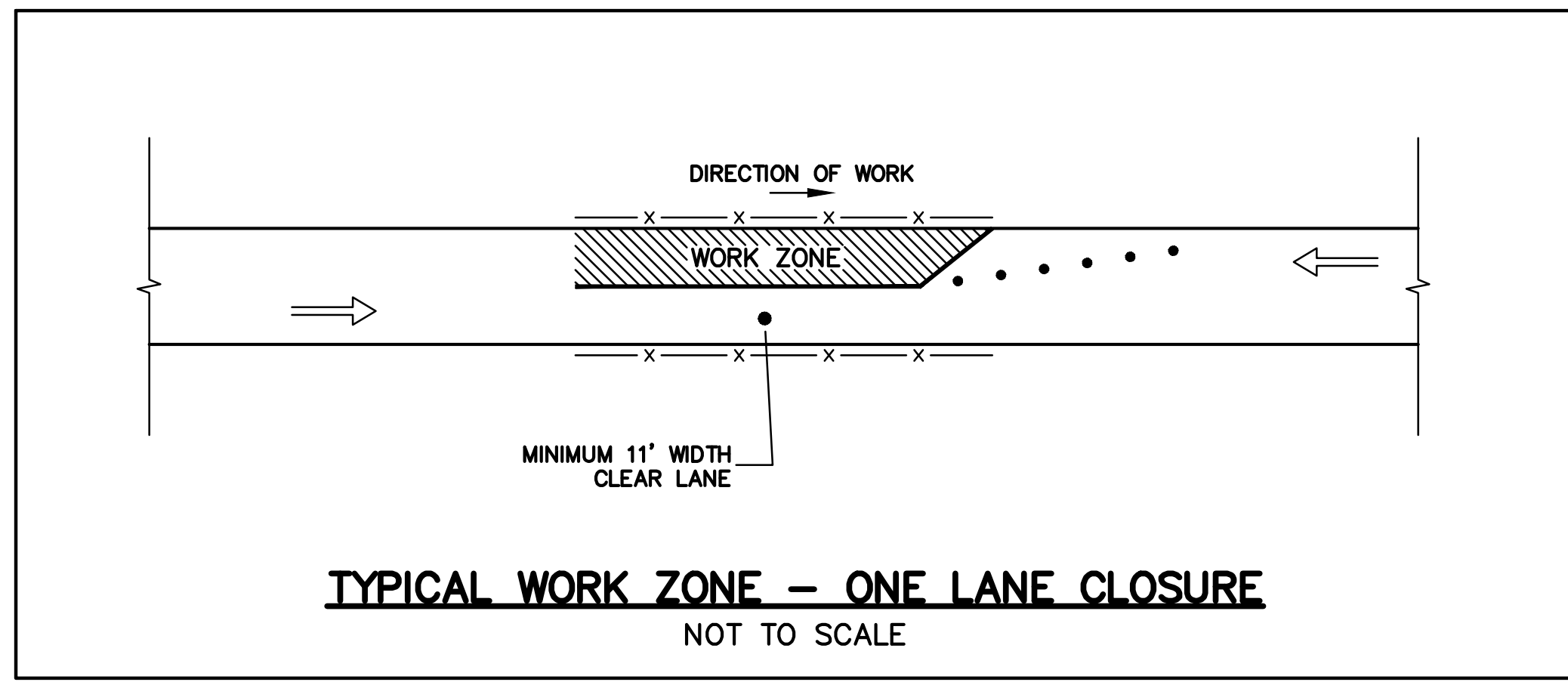
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No.	Date	Description



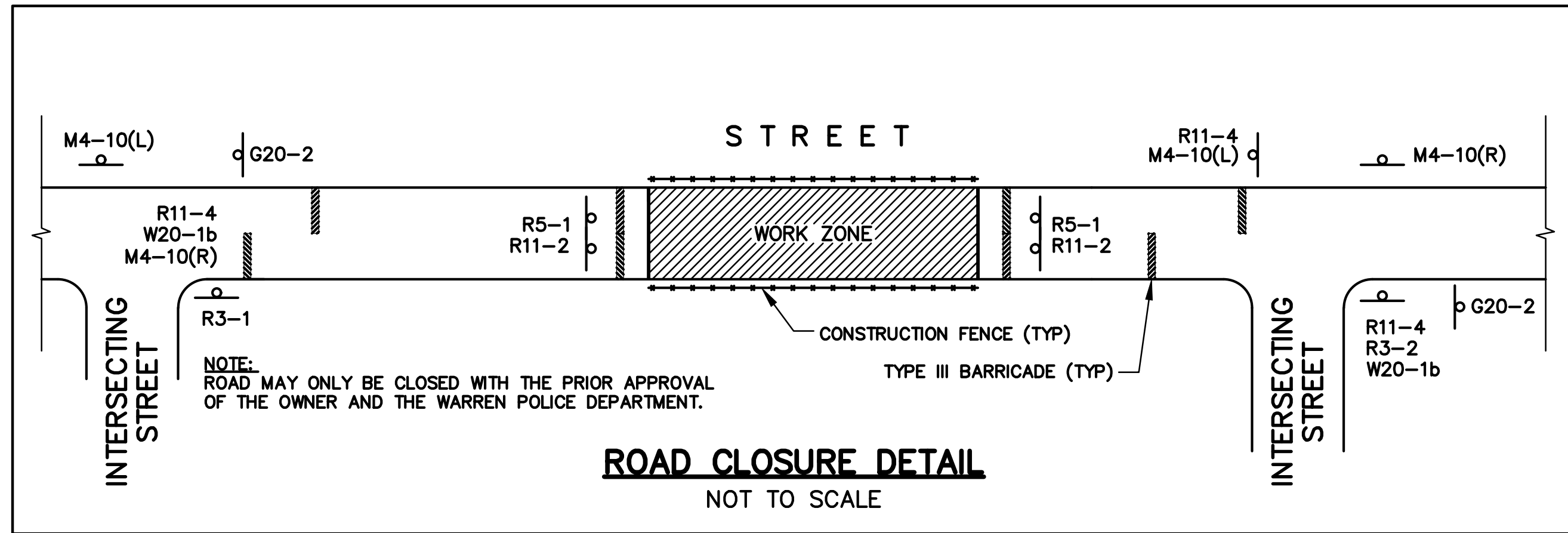
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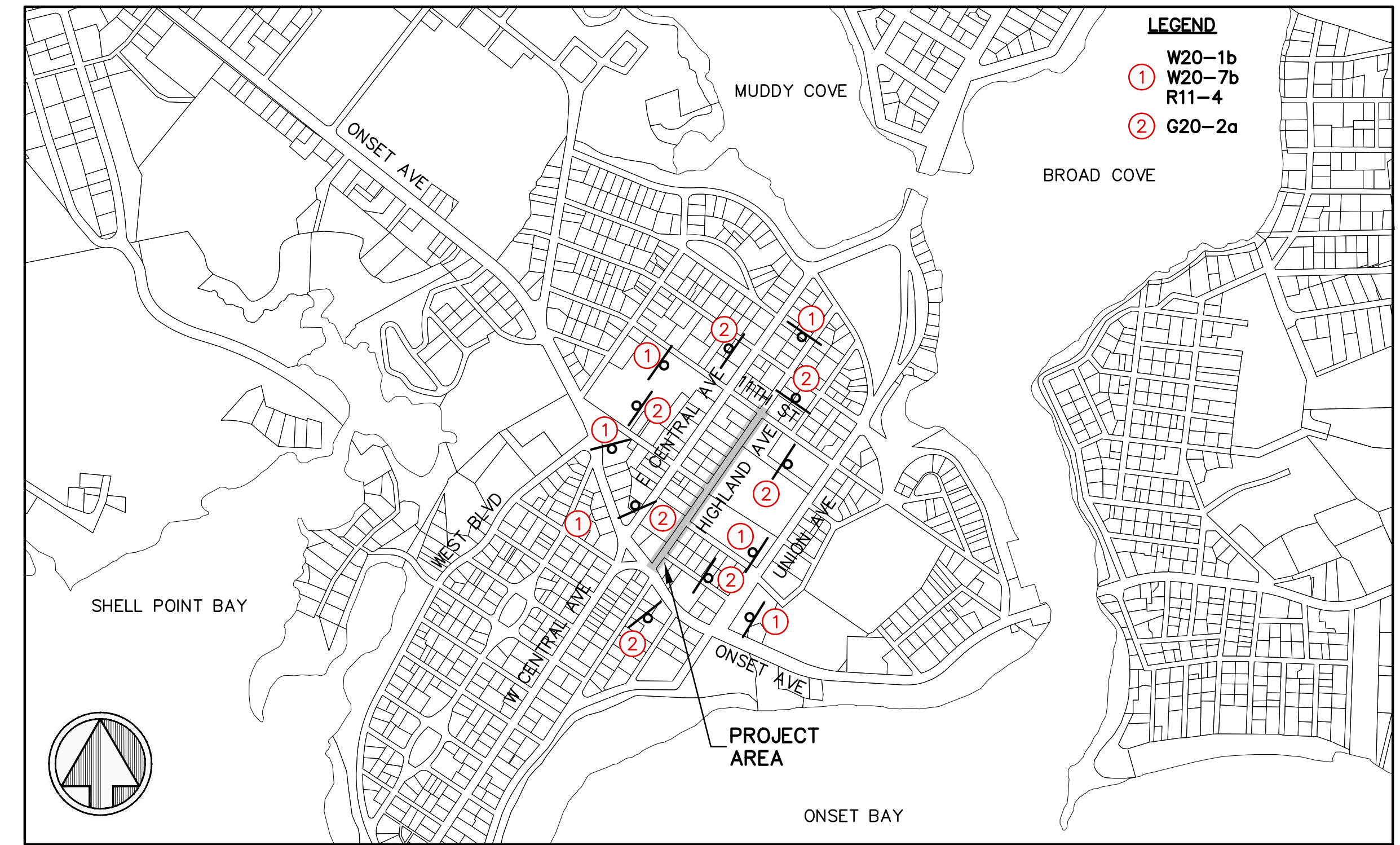


- LEGEND:**
- TEMPORARY BARRIER
 - x- CONSTRUCTION FENCE
 - DRUMS

TYPICAL WORK ZONE – ONE LANE CLOSURE
NOT TO SCALE

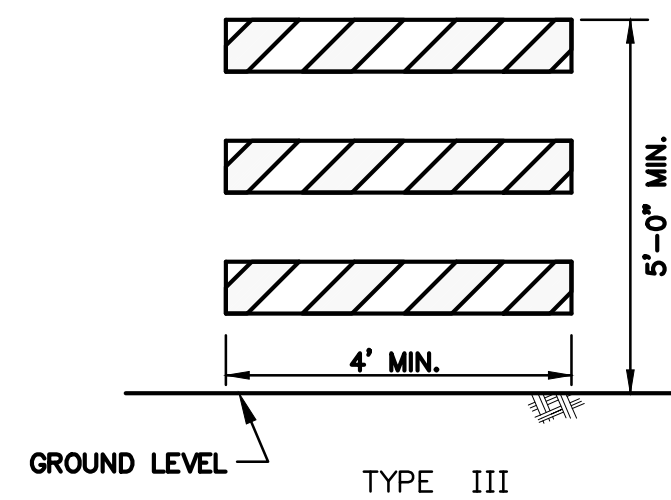


ROAD CLOSURE DETAIL
NOT TO SCALE



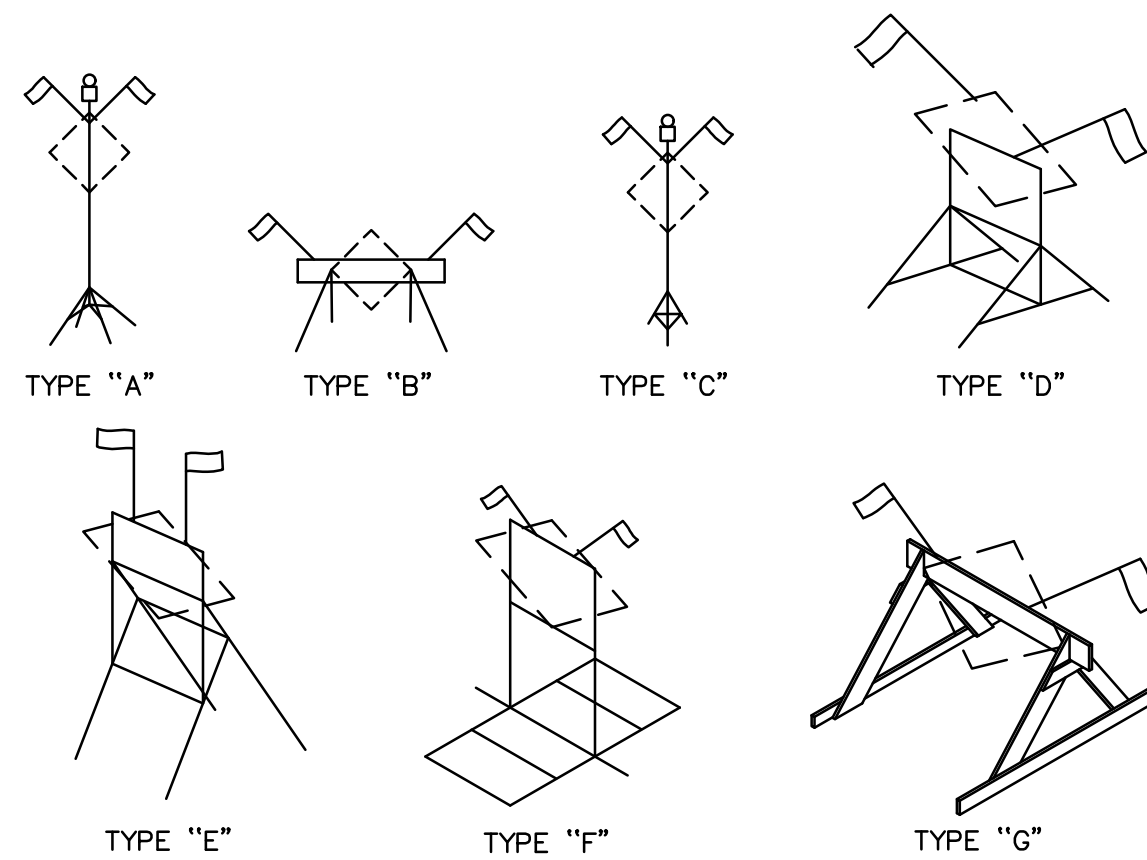
TRAFFIC CONTROL SIGNAGE PLAN

SCALE: 1"=500'
0 500' 1000' 1500'



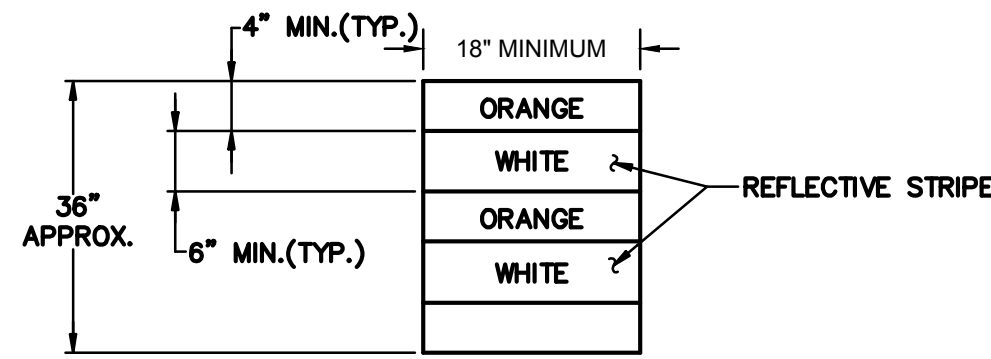
- ALUMINUM BARRICADE FACE PANELS SHALL BE MOUNTED ON 3" OR 4" P.V.C. BARRICADE SUPPORT.
- MARKINGS FOR BARRICADE FACE PANELS SHALL BE 8" TO 12" IN HEIGHT AND ALTERNATE ORANGE AND WHITE STRIPES SLOPING DOWNWARD IN THE DIRECTION TRAFFIC IS TO PASS. 6" WIDE STRIPES AT A 45° ANGLE SHALL BE USED.
- THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE REFLECTIVE SHEETING – ENCAPSULATED LENS. BARRICADE FACE PANELS AS NOTED SHALL BE REFLECTORIZED ON BOTH SIDES. WHERE TRAFFIC PASSES ONLY IN ONE DIRECTION OF TRAVEL, ONLY THE SIDE FACING TRAFFIC SHALL BE REFLECTORIZED.
- ALUMINUM BARRICADE FACE PANELS SHALL HAVE ROUNDED CORNERS.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY BARRICADE FACE PANEL WHICH THE ENGINEER DEEMS HAZARDOUS, AND NOT IN THE BEST INTEREST OF THE MOTORING PUBLIC, OR NOT SUITABLE FOR PURPOSE INTENDED.

ALUMINUM BARRICADE FACE PANELS
N.T.S.



- SIGN SUPPORTS SHALL BE CONSTRUCTED OF A SUITABLE MATERIAL. BREAKAWAY AND/OR COLLAPSIBLE FEATURES SHALL BE INCORPORATED IN THE SIGN SO THAT THE SUPPORT WILL NOT CONSTITUTE A HAZARD TO THE MOTORIST AND/OR WORKERS IN THE WORK AREA. SIGNS MUST MEET NCHRP 350 STANDARDS AND THE MUTCD.
- MOUNTING HEIGHT OF SIGN UTILIZING STRUCTURES DEPICTED ABOVE SHALL BE A MINIMUM OF 12", WITH A RECOMMENDED HEIGHT OF 18" ABOVE PAVEMENT.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY SUPPORT WHICH THE ENGINEER DEEMS A HAZARD, OR NOT IN THE BEST INTEREST OF THE MOTORING PUBLIC.
- FLAGS AND/OR BARRICADE WARNING LIGHTS SHALL BE USED AS SHOWN ON THE TRAFFIC CONTROL PLANS AND AS REQUIRED BY THE ENGINEER.

PORTABLE SIGN SUPPORTS
N.T.S.

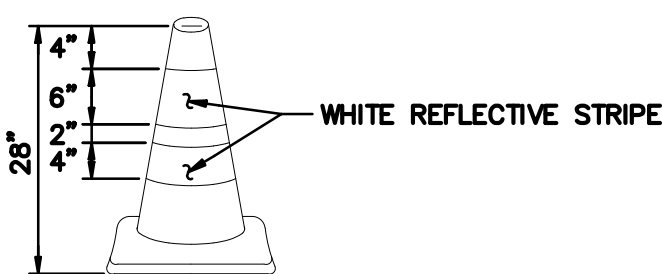


FRONT VIEW

NOTES:

- TRAFFIC DRUM SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION M.U.T.C.D.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY DRUM DEEMED NOT SUITABLE FOR THE PURPOSE INTENDED.
- THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE FLEXIBLE ENCAPSULATED LENS REFLECTIVE SHEETING.
- REFLECTORIZED STRIPES SHOULD NOT BE PLACED OVER THE PROTRUDING CIRCUMFERENTIAL RIBS OF THE DRUM.
- THE SECTIONS OF DRUMS NOT COVERED WITH REFLECTORIZED STRIPES SHALL BE ORANGE.
- THE DESIGN OF THE DRUM WILL ALLOW FOR THE ATTACHMENT OF A BARRICADE WARNING LIGHT.

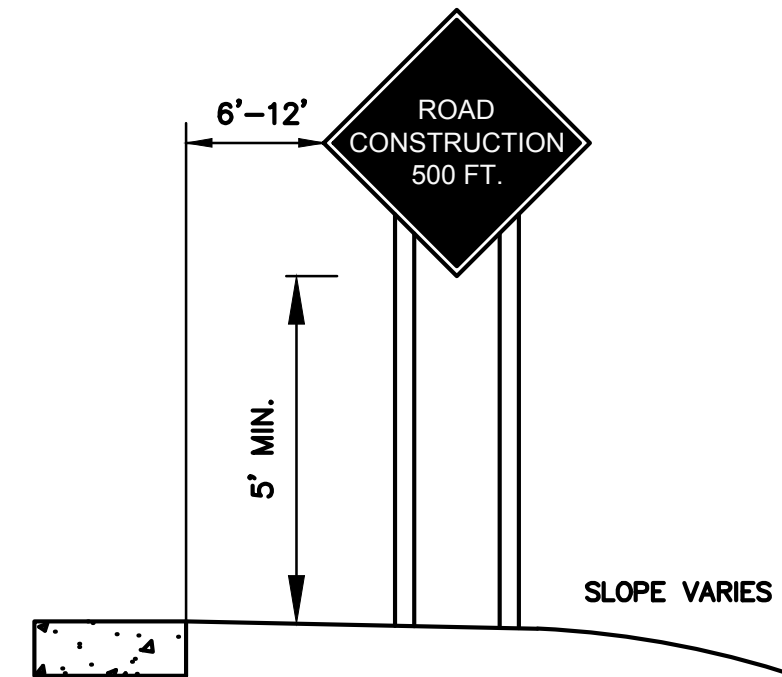
TRAFFIC DRUM
N.T.S.



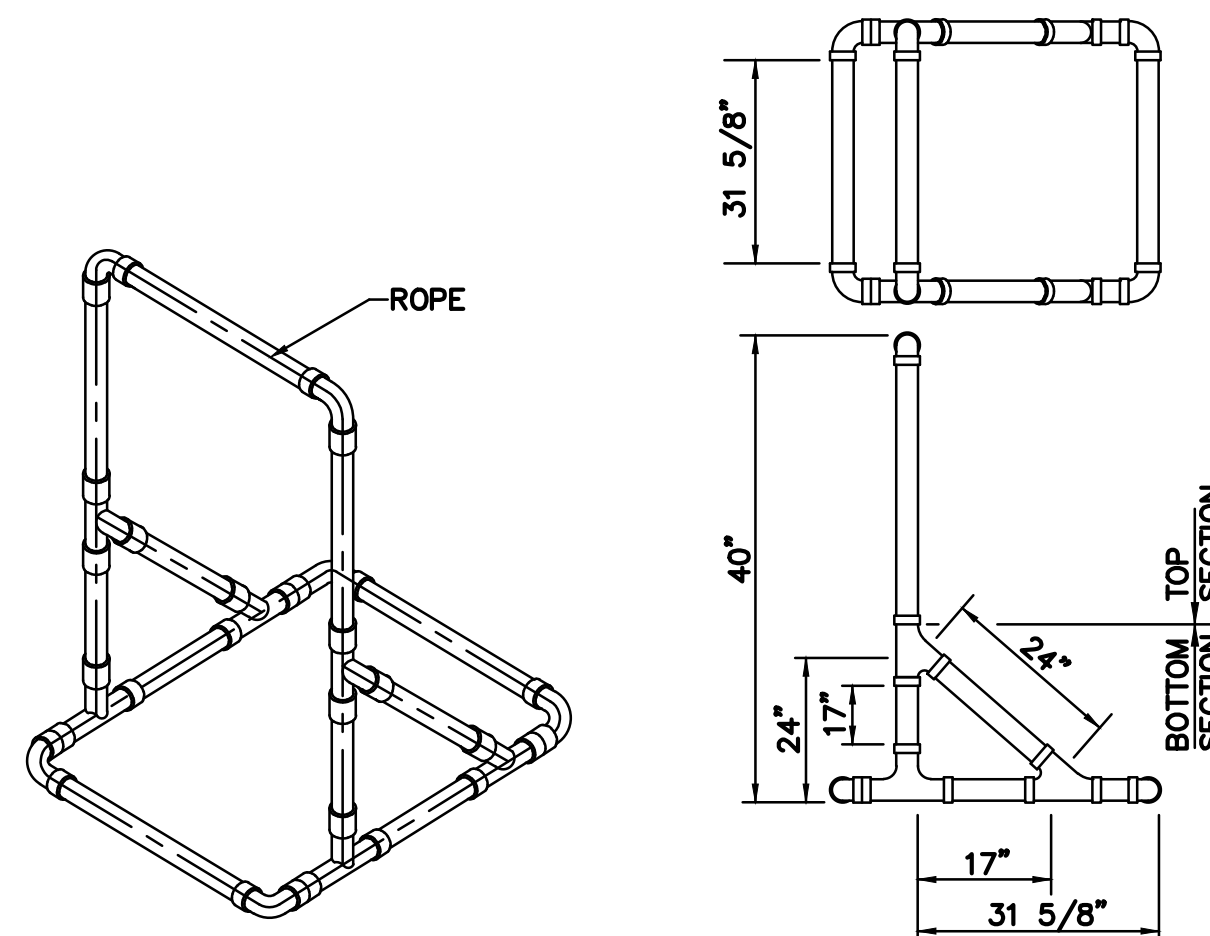
NOTES:

- TRAFFIC CONES SHALL BE DESIGNED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CHAPTER VI, SECTION 6C-3, CONE DESIGN.
- HEIGHT OF CONES SHALL BE 28"
- CONES SHALL BE PREDOMINATELY FEDERAL ORANGE IN COLOR AND WITH RETROREFLECTIVE STRIPS.
- RUBBER CONES SHALL HAVE INTERIOR RIBS FOR RIGIDITY. PLASTIC CONES SHALL BE COLOR IMPREGNATED.
- CONES SHALL BE OF A THICKNESS NECESSARY TO WITHSTAND IMPACT WITHOUT DAMAGE TO EITHER CONE OR IMPACTING VEHICLE.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY CONE THE ENGINEER DEEMS NOT SUITABLE FOR PURPOSE INTENDED.

TRAFFIC CONES
N.T.S.



HEIGHT AND LATERAL LOCATIONS OF SIGNS
N.T.S.



NOTES:

- DIMENSIONS ARE APPROXIMATE.
- BOTTOM SECTION MAY BE FILLED WITH SAND FOR BALLAST.
- SUPPORT SHALL BE LOOSELY THREADED WITH ROPE, KNOTTED AS REQUIRED.

TYPICAL 3" OR 4" PLASTIC SIGN/BARRICADE SUPPORT
N.T.S.

TEMPORARY SIGNS

SIGN	WIDTH	HEIGHT
ROAD CONSTRUCTION 100 FT. W20-1a	48"	48"
ROAD CONSTRUCTION 500 FT. W20-1b	48"	48"
ONE LANE ROAD 500 FT. W20-4	48"	48"
END ROAD WORK G20-2a	36"	18"
FLAGGER AHEAD W20-7a	36"	36"
BE PREPARED TO STOP W20-7b	36"	36"
ROAD CLOSED LOCAL TRAFFIC ONLY R11-4	60"	30"
DETOUR M4-10	48"	18"

(REFER TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION)

TRAFFIC CONTROL – GENERAL NOTES:

- DURING NON-WORKING HOURS, ALL TRENCHES ARE TO BE RESTORED AS SPECIFIED OR REQUIRED. ALL SIGNAGE SHALL BE REMOVED AND ALL ROADS OPENED TO NORMAL TRAFFIC FLOW.
- ALL TRAFFIC CONTROL TO MEET THE MUTCD (LATEST EDITION).
- CHANNELIZE TRAFFIC AS REQUIRED USING REFLECTORIZED DRUMS AND STEADY-BURN LIGHTS. RELOCATE DRUMS AS REQUIRED DURING CONSTRUCTION.
- PROVIDE POLICE PROTECTION OR MASSDOT CERTIFIED FLAGGERS TO DIRECT TRAFFIC AS REQUIRED.
- CONTRACTOR SHALL PROVIDE EMERGENCY VEHICLE ACCESS AT ALL TIMES.

Project:
HIGHLAND AVENUE
SIDEWALK REPLACEMENT

HIGHLAND AVENUE,
WAREHAM, MA, 02558

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Consultants:

Revisions:

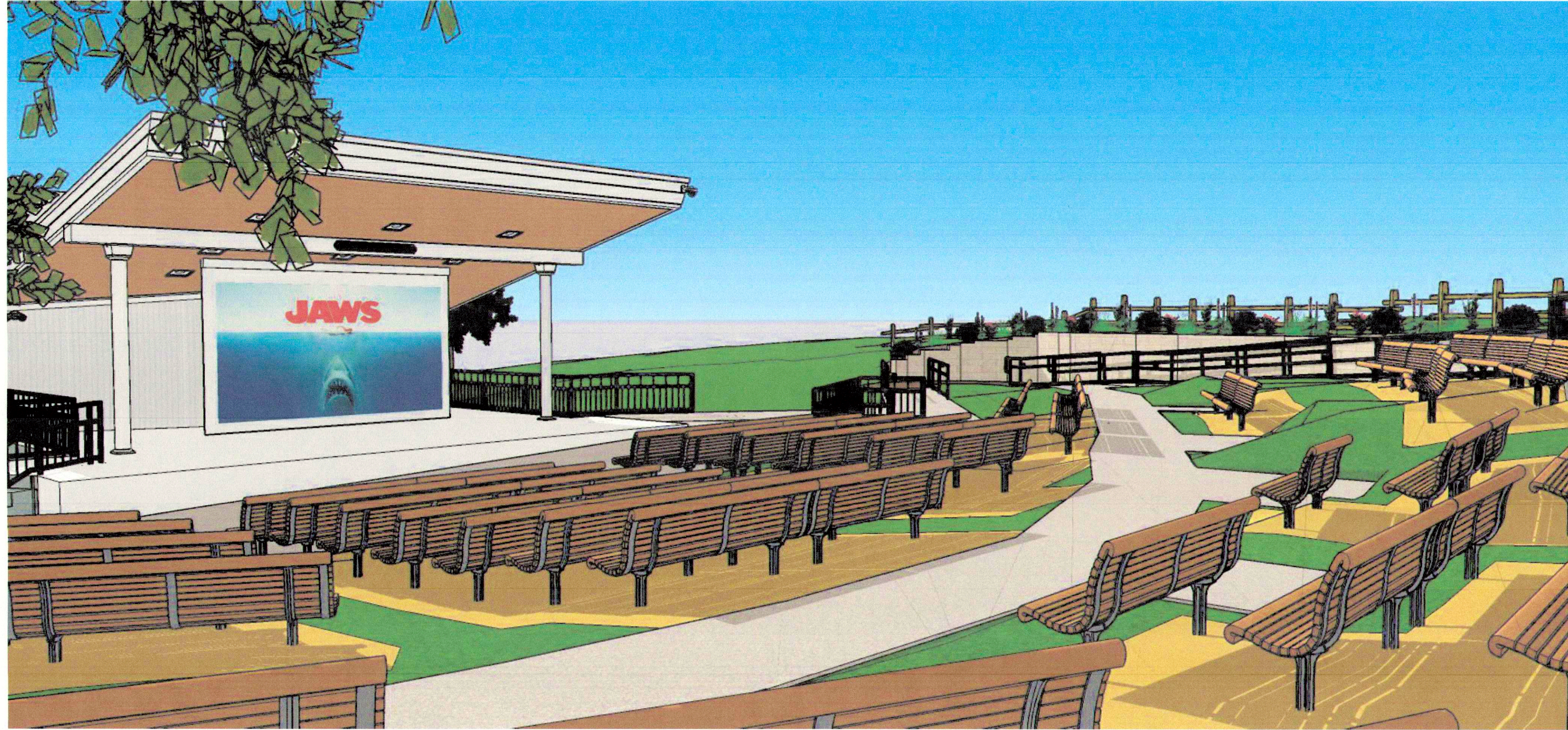
No.	Date	Description

Seal:

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BID DOCUMENTS

Scale: AS NOTED
Date: DECEMBER 2023
Drawn By: WGS
Reviewed By: CBW
Approved By: CBW
W&S Project No: ENG23-0636
W&S File No:

Drawing Title:
**CONSTRUCTION ZONE
SAFETY PLAN**
Sheet Number:
C103



LILLIAN GREGERMAN BANDSHELL

189 ONSET AVE.
EAST WAREHAM, MA 02538

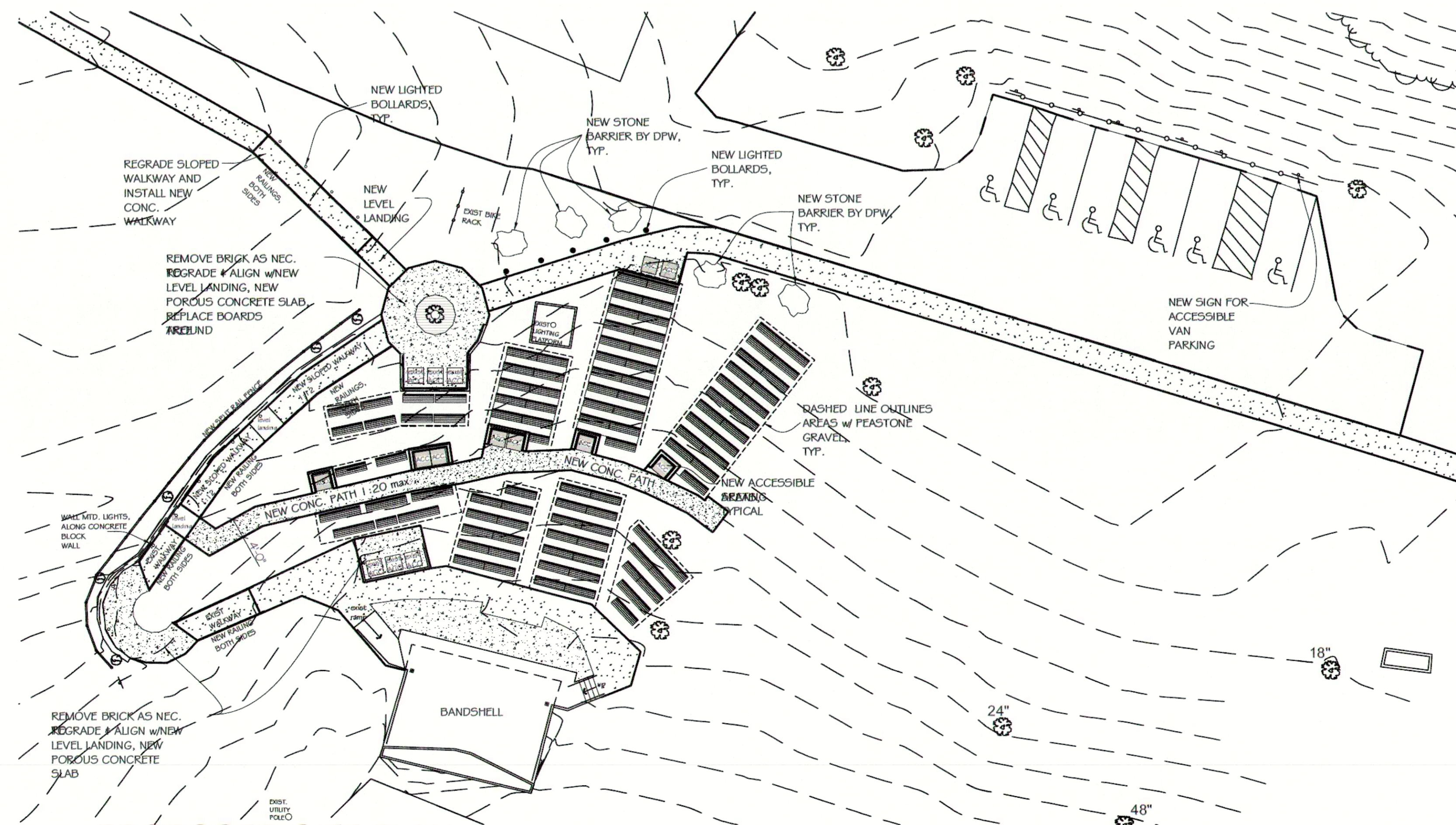
Architect: Stephen Kelleher Architects, Inc.
Fairhaven Center for Business
57 Alden Road
Fairhaven, MA 02719
Phone: 508-992-2007
Fax: 508-922-2021

Primary Consultant: Weston & Sampson
85 Devonshire St, 3rd Floor
Boston, MA 02109
Phone: 617-412-4480

Electrical Engineers: GGD Consulting Engineers, Inc.
375 Fauce Corner Road, Suite D
Dartmouth, MA 02747-1258
Phone: 508-998-5700

Civil Engineers: Coastal Engineering
260 Cranberry Highway
Orleans, MA 02653
Phone: 508-255-6511

Owner: Town of Wareham
54 Marion Road
Wareham, MA 02571
Phone: 508-291-3100



LIST OF DRAWINGS	
SHEET NUMBER	SHEET NAME
EXISTING CONDITIONS PLAN	
A-0.1	PROPOSED SEATING PLAN
A-1.0	PROPOSED FLOOR PLAN
A-1.1	PROPOSED ELEVATIONS
A-1.2	PROPOSED ELEVATIONS
A-1.3	DETAILS
CE101	DEMOLITION & EROSION CONTROL PLAN
CG101	GRADING & DRAINAGE PLAN
CM101	LAYOUT & MATERIALS PLAN
C-301	SEATING AREA GRAPHICAL SECTIONS
C-302	WALKWAY CROSS SECTIONS
C-501	SITE DETAILS
E-1.0	ELECTRICAL DRAWINGS AND DETAILS

PROPOSED SITE PLAN

2 PROPOSED SITE PLAN
1/16" = 1'-0"

BID DOCUMENTS - ADD ALTERNATE - 2

12/15/2023





MAP 1
LOT 1009
 N/F ONSET BEACH MHP LLC

NOTES:
 1. PROPERTY LOCUS:
 1 UNION AVENUE
 ASSESSOR'S MAP 1, LOT 1000
 DEED REFERENCE: BOOK 1989, PAGE 460

OWNER OF RECORD:
 TOWN OF WAREHAM
 54 MARION ROAD
 WAREHAM, MA 02571

189 ONSET AVENUE
 ASSESSOR'S MAP 1, LOT 1002
 DEED REFERENCE: NO DEED REFERENCE FOUND

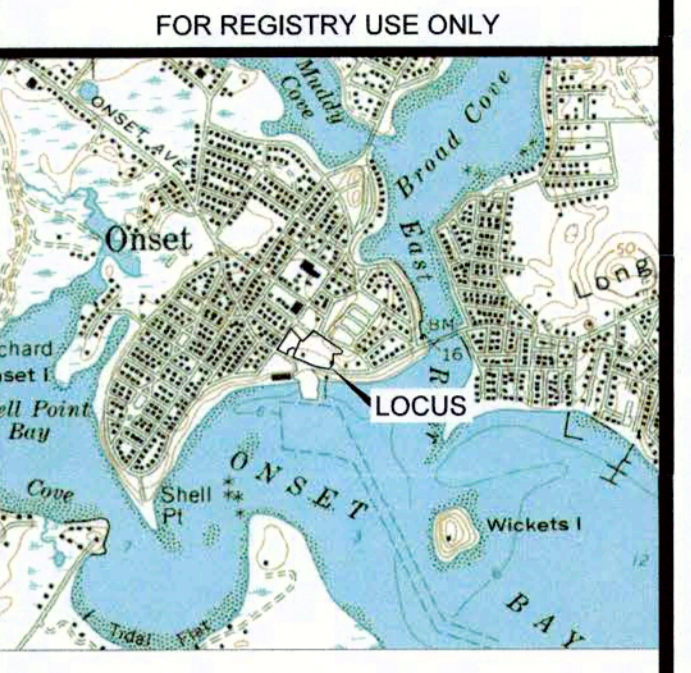
OWNER OF RECORD:
 TOWN OF WAREHAM
 54 MARION ROAD
 WAREHAM, MA 02571

- 2. PLAN REFERENCES:**
 PLAN BOOK 1, PAGE 58
 PLAN BOOK 1, PAGE 324
 PLAN BOOK 7, PAGE 567
 PLAN BOOK 2917, PAGE 490
 PLAN BOOK 3529, PAGE 612
 PLAN BOOK 4138, PAGE 706

1906 ONSET AVENUE LAYOUT (DECREE #411)
 1910 UNION AVENUE LAYOUT (DECREE #471)
 1945 ONSET AVENUE LAYOUT (DECREE #1032)

PLAN OF LAYOUT OF UNION AVENUE, ONSET, WAREHAM, MA
 DATED FEB 14, 1930 (ON FILE WITH TOWN CLERKS OFFICE)

3. THE LAYOUT LINES OF UNION AVENUE AS DEPICTED BASED ON AN UNRECORDED PLAN DATED FEBRUARY 14, 1930 ON FILE WITH THE TOWN CLERKS OFFICE. THE DASHED LINES REPRESENT THE LAYOUT LINES AS SHOWN ON PLAN BOOK 7, PAGE 567.
4. ON-THE-GROUND SURVEY PERFORMED BY JC ENGINEERING INC. ON APRIL 25, 2022.
5. ELEVATIONS AS SHOWN ON THIS PLAN ARE BASED ON N.A.V.D 1988 VERTICAL DATUM.
6. SUBSURFACE UTILITIES ARE NOT SHOWN ON THIS PLAN. CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION THROUGH DIG-SAFE AT LEAST 72 HOURS PRIOR TO COMMENCING WORK ON SITE AT 1-888-DIG-SAFE AND ANY OTHER APPLICABLE AGENCIES.



LOCUS MAP
 SCALE 1" = 2000'



JOHN L. CHURCHILL JR., PLS DATE 12/14/23

MAP 1
LOT 125A
 N/F TOWN OF WAREHAM

EXISTING CONDITIONS PLAN
 AT
1 UNION AVENUE & 189 ONSET AVENUE
 IN
WAREHAM, MASSACHUSETTS
 (PLYMOUTH COUNTY)

REVISIONS:

No.	DATE	DESC.
1	12/14/23	Added Benchmarks

PREPARED FOR:
 TOWN OF WAREHAM
 54 MARION ROAD
 WAREHAM, MA 02571

PREPARED BY:
 JC ENGINEERING, INC
 2854 CRANBERRY HIGHWAY
 EAST WAREHAM, MA 02538
 508-273-0377

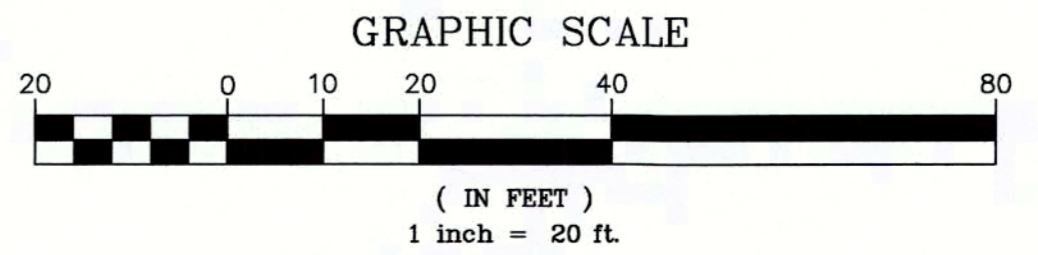
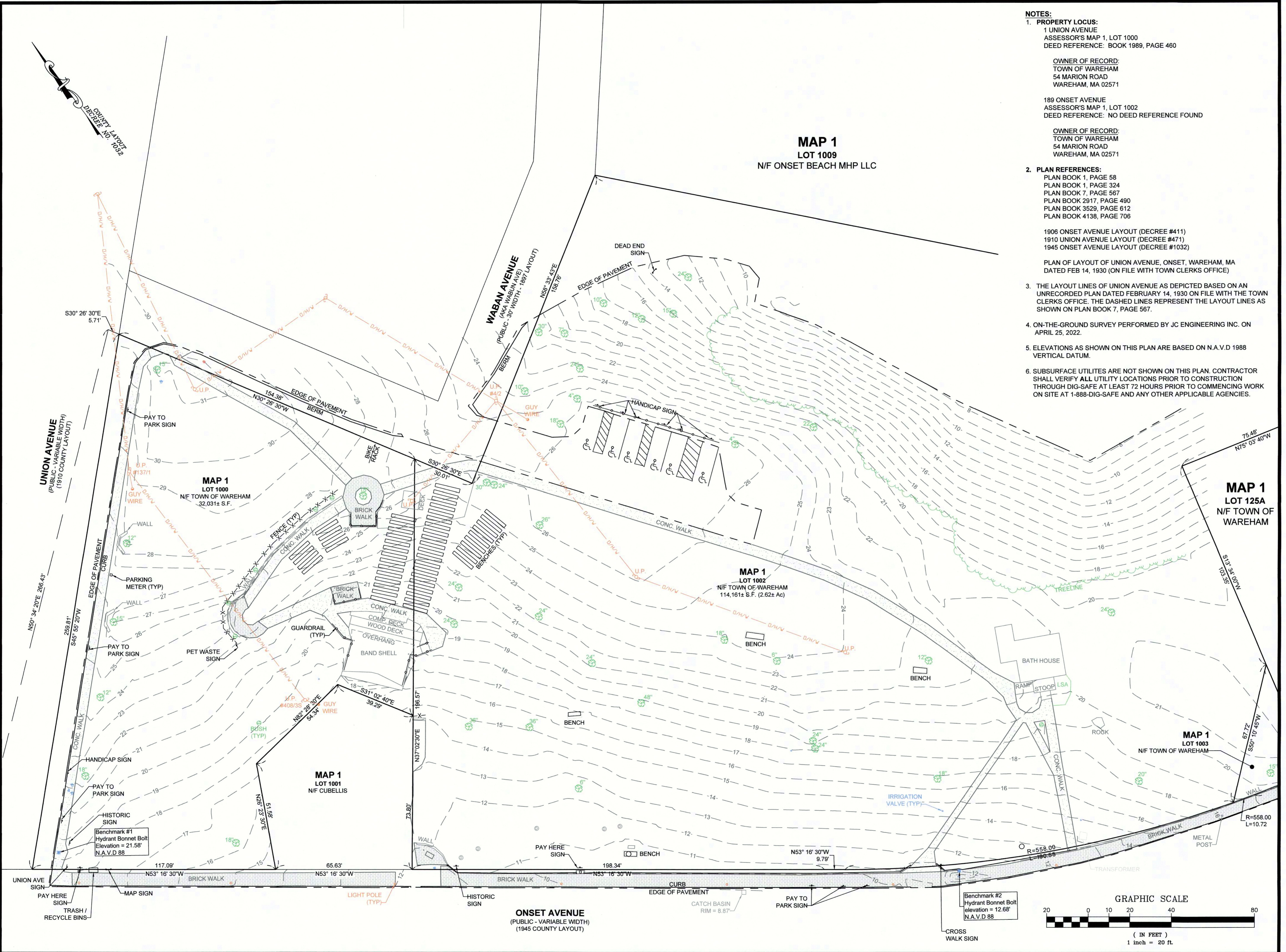
DATE: MAY 13, 2022

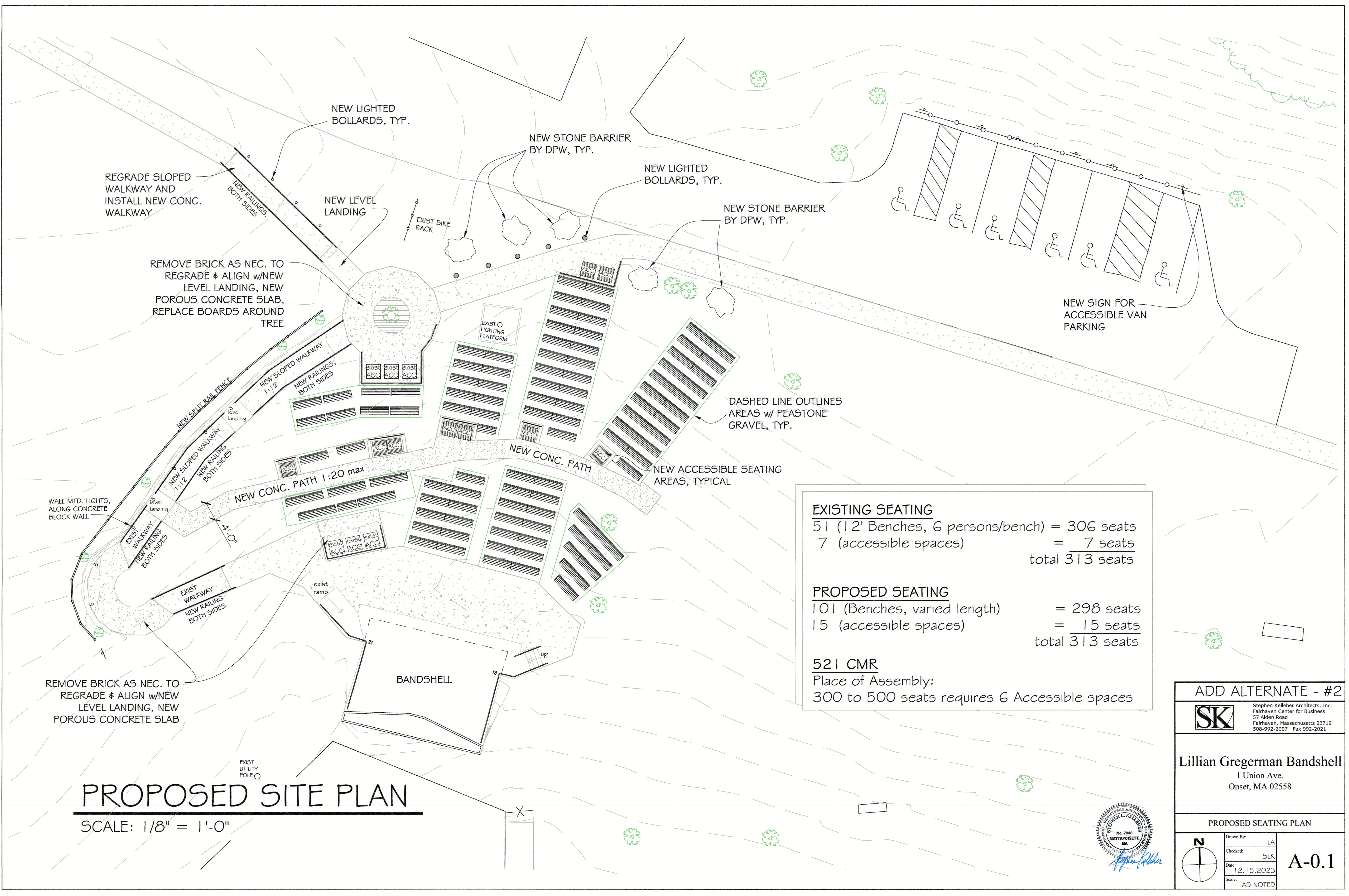
CALC./DESIGN: BJW

DRAWN: SJI

CHECK: JLC

JOB NO: 5216





EXISTING SEATING	
51 (12' Benches, 6 persons/bench)	= 306 seats
7 (accessible spaces)	= 7 seats
	total 313 seats
PROPOSED SEATING	
101 (Benches, varied length)	= 298 seats
15 (accessible spaces)	= 15 seats
	total 313 seats
521 CMR	
Place of Assembly:	
300 to 500 seats requires 6 Accessible spaces	

PROPOSED SITE PLAN

SCALE: 1/8" = 1'-0"

ADD ALTERNATE - #2

SK Stephen Kelleher Architects, Inc.
 Fairhaven Center for Business
 57 Alden Road
 Fairhaven, Massachusetts 02719
 508-992-2007 Fax 992-2021

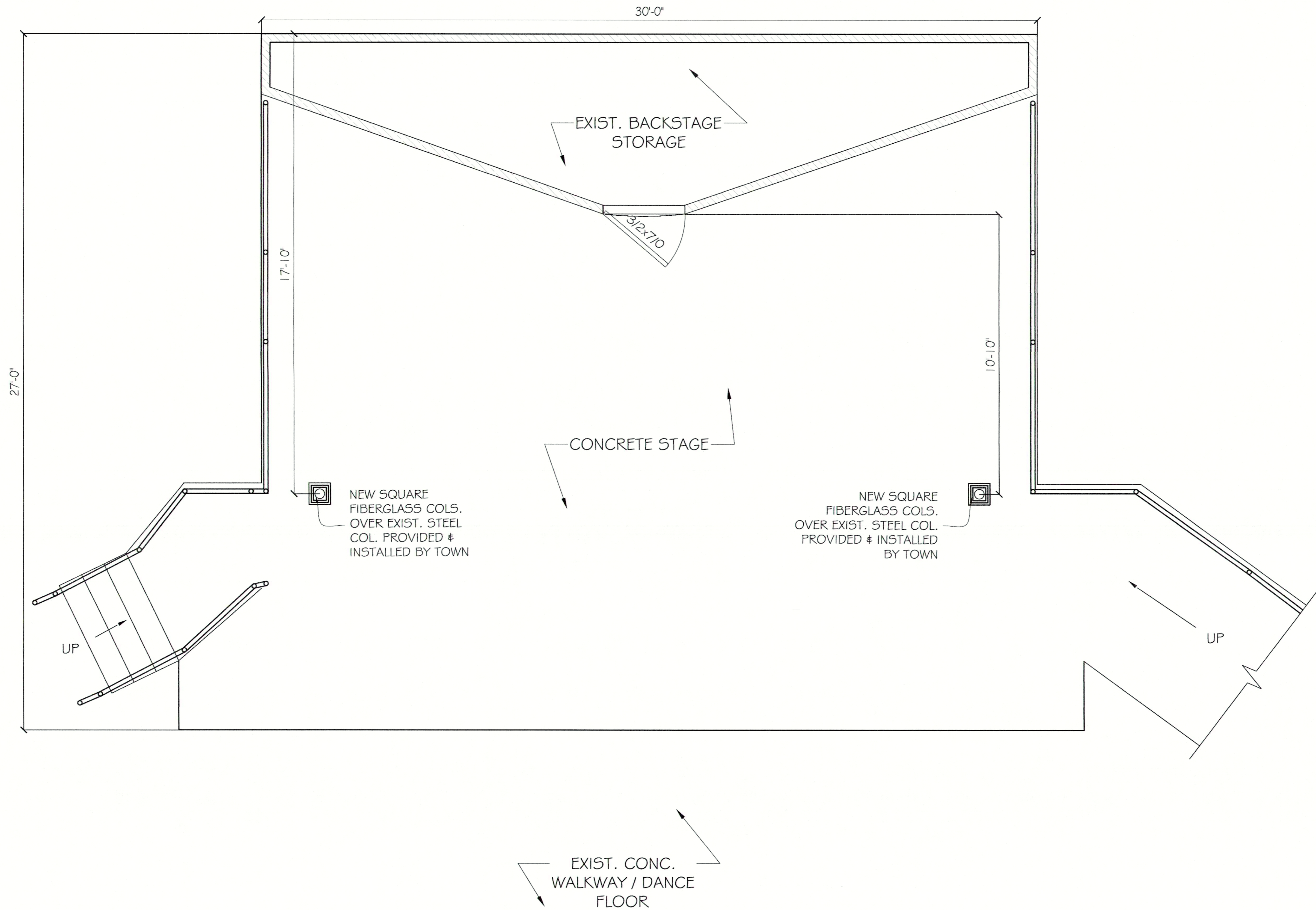
Lillian Gregerman Bandshell
 1 Union Ave.
 Onset, MA 02558

PROPOSED SEATING PLAN

Drawn By:	LA
Checked:	SLK
Date:	12.15.2023
Scale:	AS NOTED

A-0.1





1 FLOOR PLAN
SCALE: 1/2" = 1'-0"

ADD ALTERNATE - #2

SK Stephen Kelleher Architects, Inc.
Fairhaven Center for Business
57 Alden Road
Fairhaven, Massachusetts 02719
508-992-2007 Fax 992-2021

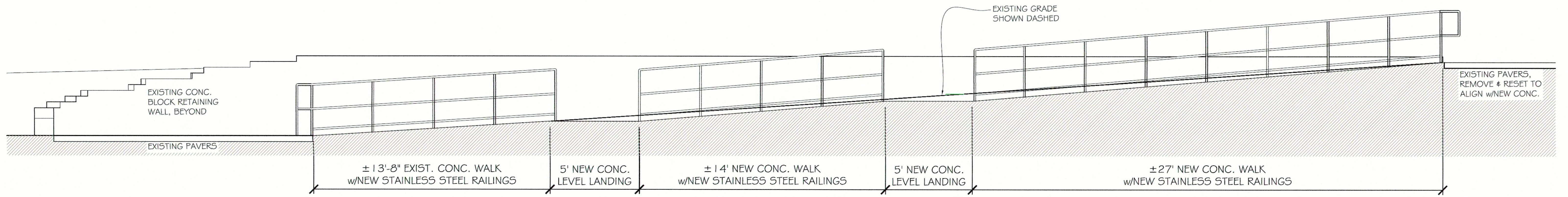
Lillian Gregerman Bandshell
1 Union Ave.
Onset, MA 02558

PROPOSED SEATING PLAN

Drawn By: LA
Checked: SLK
Date: 12.15.2023
Scale: AS NOTED

A-1.0





② **NEW RAMP AT CONC. BLOCK WALL**
SCALE: 3/8" = 1'-0"



① **FRONT ELEVATION**
SCALE: 1/2" = 1'-0"



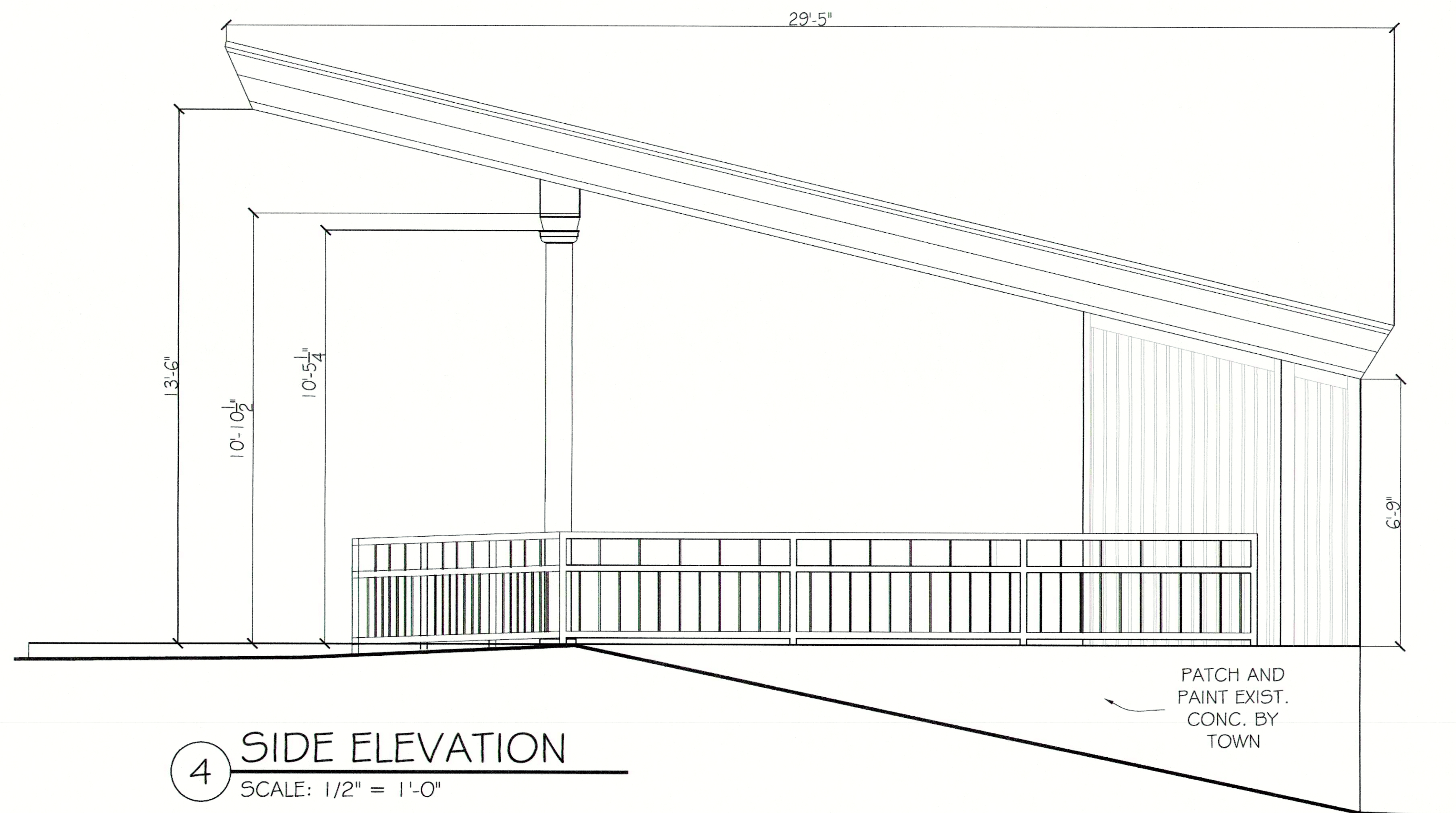
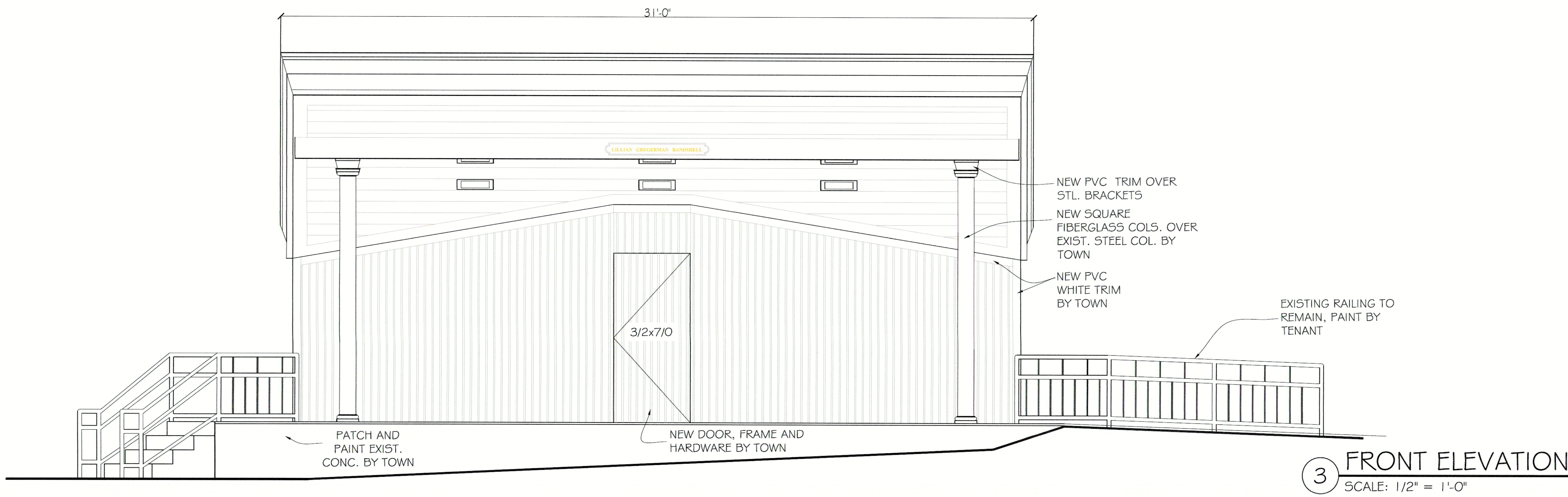
ADD ALTERNATE - #2

SK Stephen Kelleher Architects, Inc.
Fairhaven Center for Business
57 Alden Road
Fairhaven, Massachusetts 02719
508-992-2007 Fax 992-2021

Lillian Gregerman Bandshell
1 Union Ave.
Onset, MA 02558

PROPOSED SEATING PLAN

Drawn By:	LA	A-1.1
Checked:	SLK	
Date:	12.15.2023	
Scale:	AS NOTED	



ADD ALTERNATE - #2

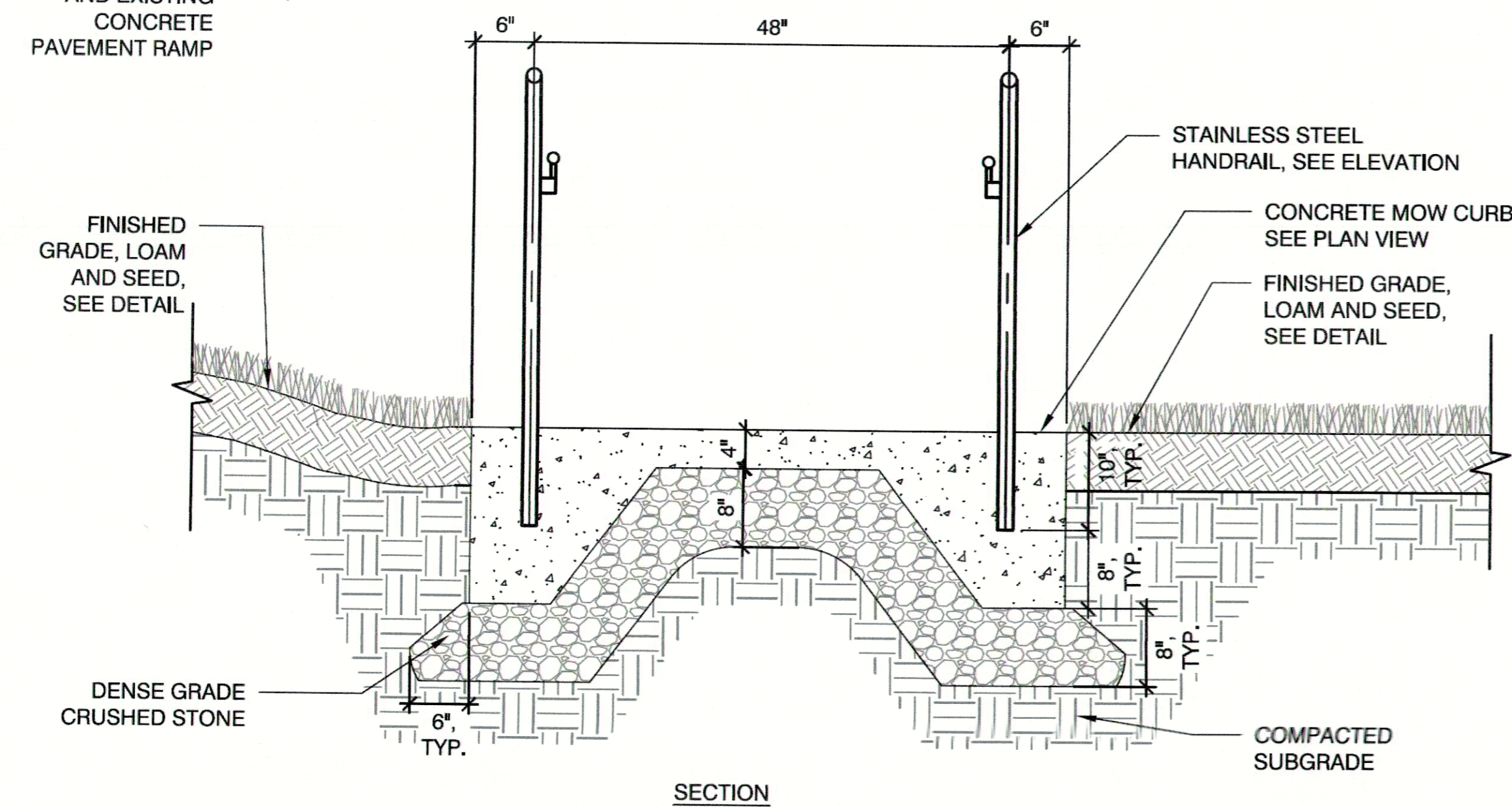
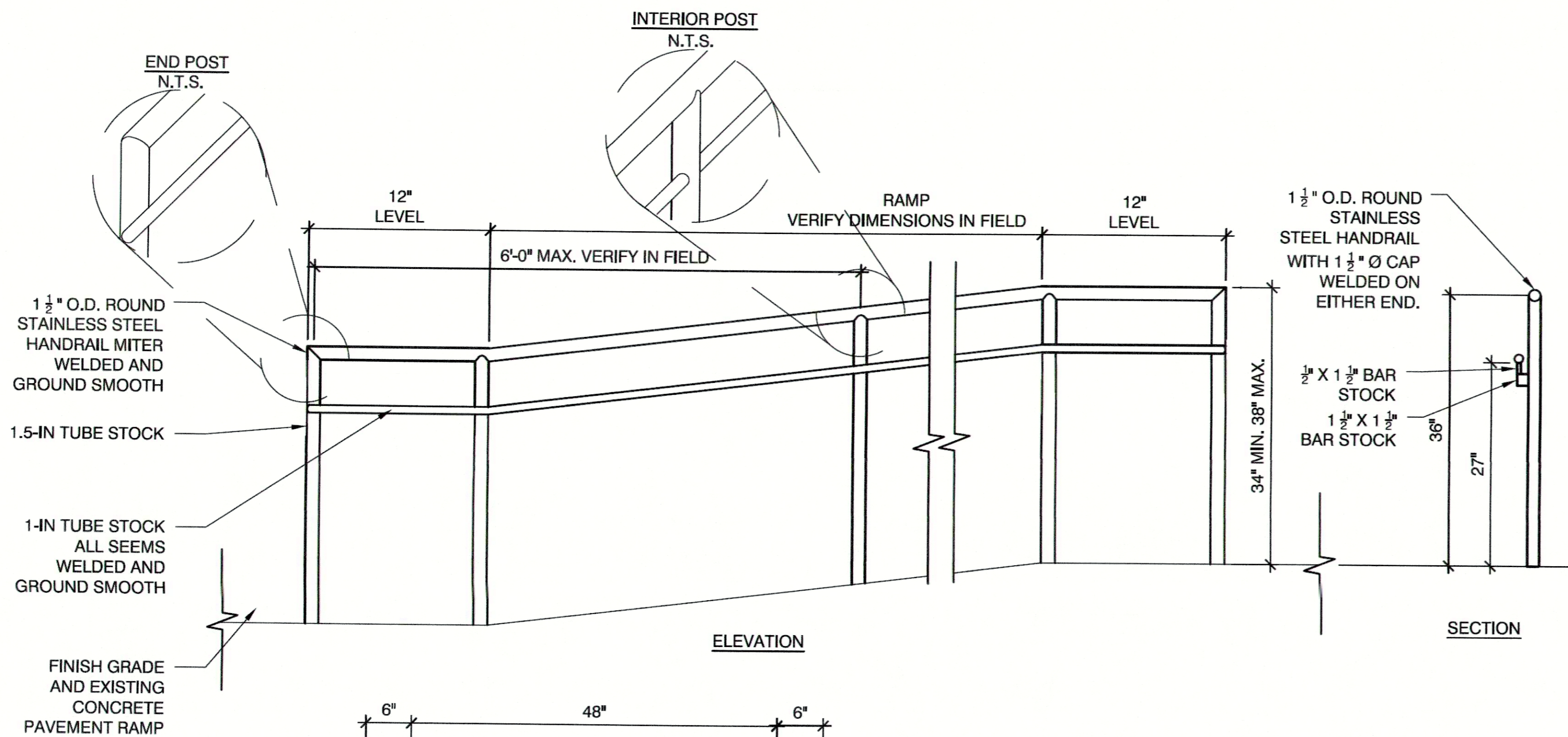
SK
 Stephen Kelleher Architects, Inc.
 Falhaven Center for Business
 57 Alden Road
 Falhaven, Massachusetts 02719
 508-992-2007 Fax 992-2021

Lillian Gregerman Bandshell
 1 Union Ave.
 Onset, MA 02558

PROPOSED SEATING PLAN

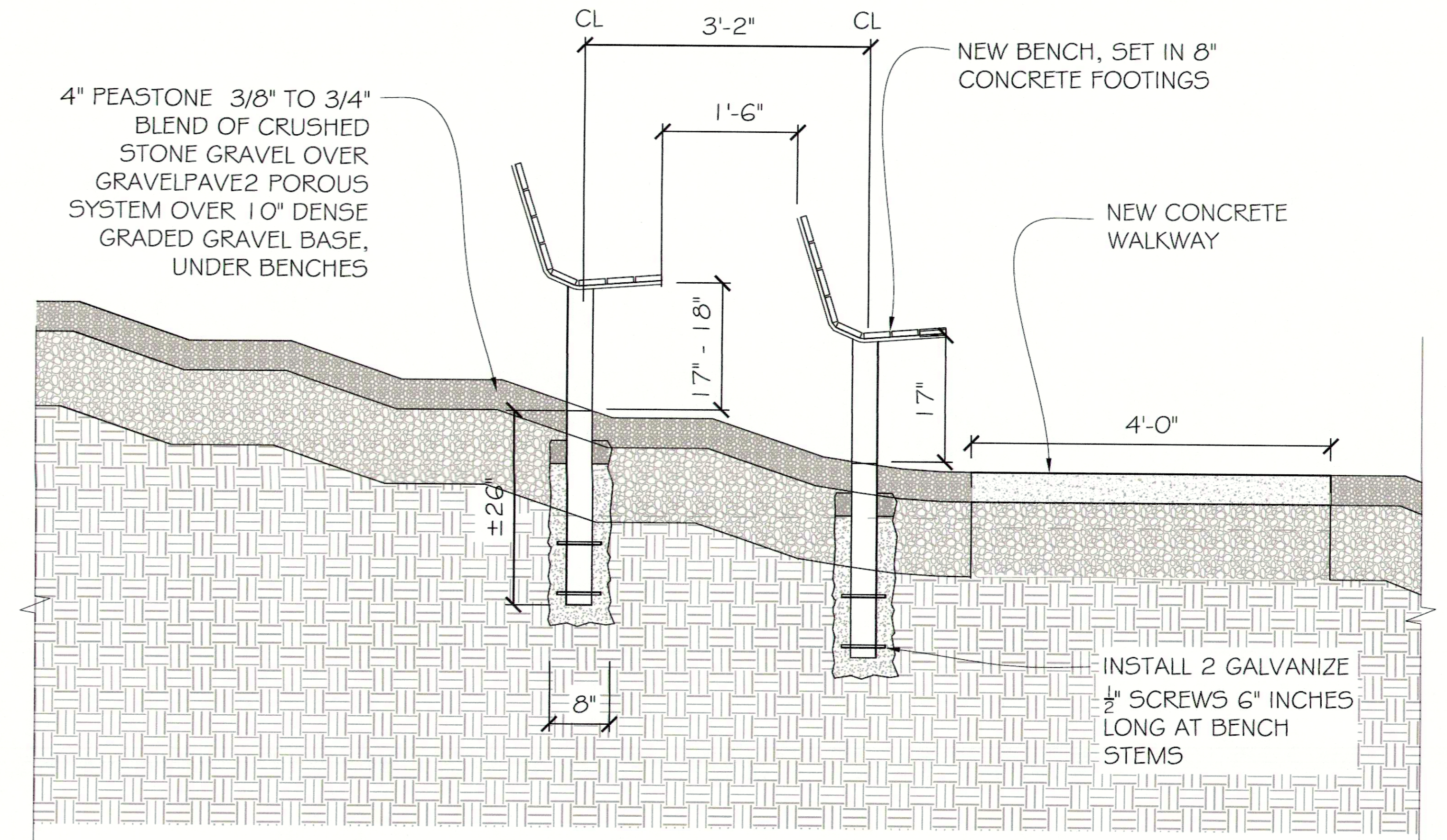
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Checked:	SLK	
Date:	12.15.2023	
Scale:	AS NOTED	



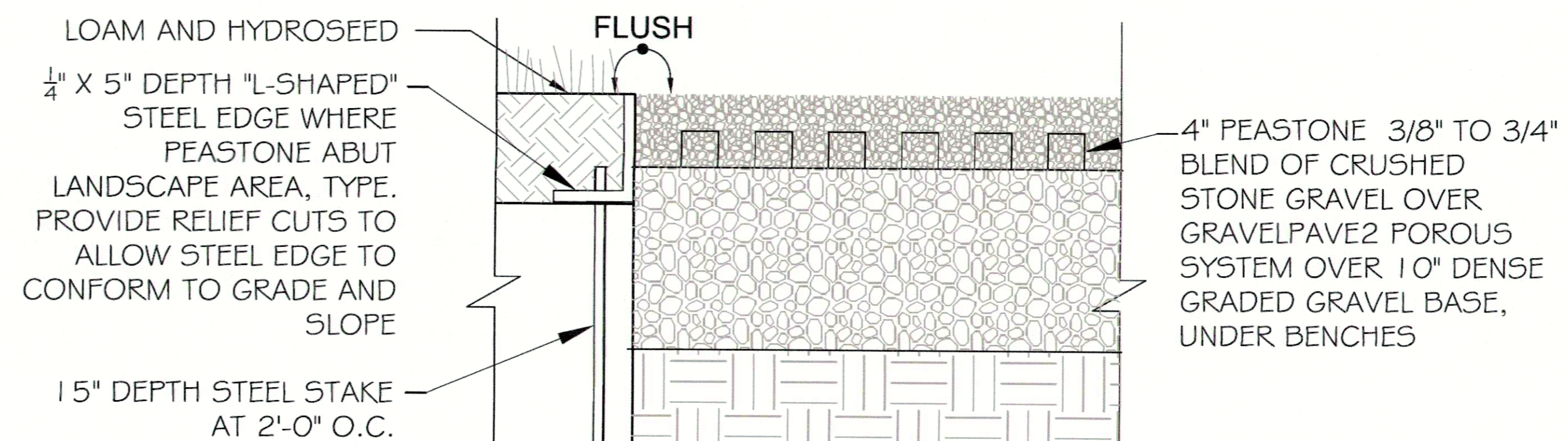


C ADA RAMP WITH STAINLESS STEEL HANDRAIL
NOT TO SCALE

- NOTES:
1. ALL HANDRAILS SHALL BE STAINLESS STEEL, BRUSHED FINISH.
 2. HANDRAILS SHALL BE CORE DRILLED AND GROUTED.
 3. ALL WELDS SHALL BE GROUND DOWN CLEAN AND SMOOTH.
 4. ALL DIMENSIONS SHALL BE FIELD VERIFIED AND ADJUSTED AS NEEDED PRIOR TO FABRICATION. CONTRACTOR SHALL SUBMIT LARGE SCALE SHOP DRAWINGS OF HANDRAILS PRIOR TO FABRICATION.



A TYPICAL BENCH AND WALK DETAIL
SCALE: 1" = 1'-0"



- NOTE:
1. CONTRACTOR SHALL FEATHER GRADES BACK WITHIN DISTURBED LOAM AREA TO MEET EXISTING GRADES.

CONDITION 1 - AT LOAM AND SEED

B GRAVEL EDGE DETAIL
NOT TO SCALE



ADD ALTERNATE - #2



Stephen Kelleher Architects, Inc.
Fairhaven Center for Business
57 Alden Road
Fairhaven, Massachusetts 02719
508-992-2007 Fax 992-2021

Lillian Gregerman Bandshell
1 Union Ave.
Onset, MA 02558

PROPOSED SEATING PLAN

Drawn By:	LA
Checked:	SLK
Date:	12.15.2023
Scale:	AS NOTED

A-1.3

NOTES:

EXISTING CONDITION BACKGROUND SHOWN ON THIS PLAN IS A DIRECT REPRESENTATION FROM AN EXISTING CONDITIONS SURVEY DONE BY JC ENGINEERING, INC.

SEE PLAN TITLED "EXISTING CONDITIONS PLAN AT 1 UNION AVENUE IN WAREHAM MASSACHUSETTS" FOR THE TOWN OF WAREHAM BY JC ENGINEERING DATED 2022-05-13.

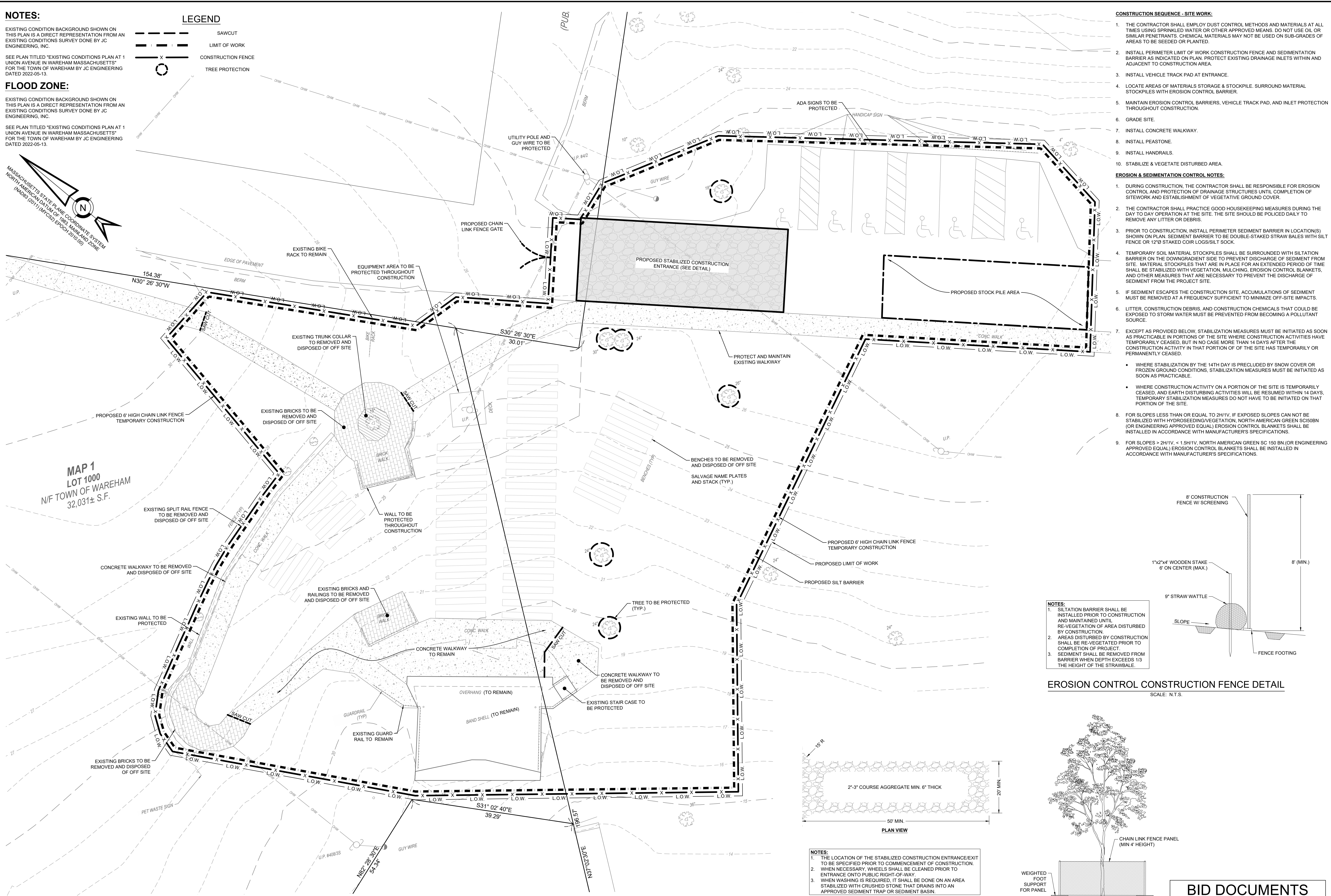
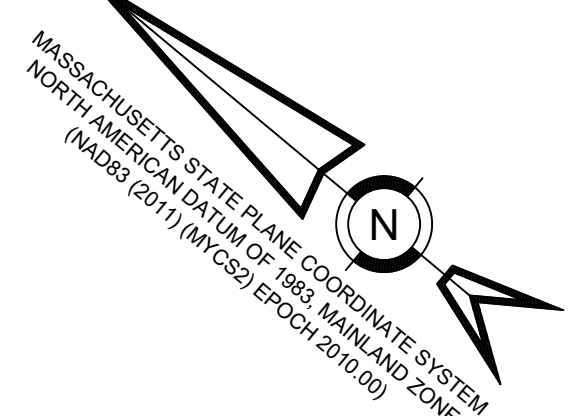
FLOOD ZONE:

EXISTING CONDITION BACKGROUND SHOWN ON THIS PLAN IS A DIRECT REPRESENTATION FROM AN EXISTING CONDITIONS SURVEY DONE BY JC ENGINEERING, INC.

SEE PLAN TITLED "EXISTING CONDITIONS PLAN AT 1 UNION AVENUE IN WAREHAM MASSACHUSETTS" FOR THE TOWN OF WAREHAM BY JC ENGINEERING DATED 2022-05-13.

LEGEND

- SAWCUT
- - - - - LIMIT OF WORK
- x - x - CONSTRUCTION FENCE
- TREE PROTECTION

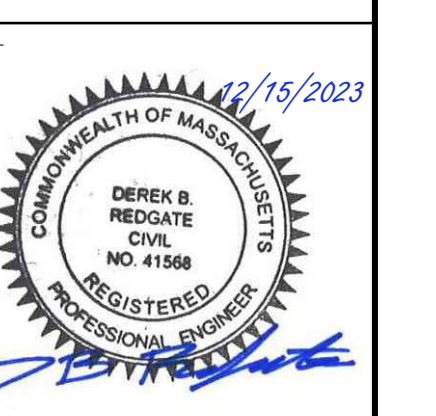
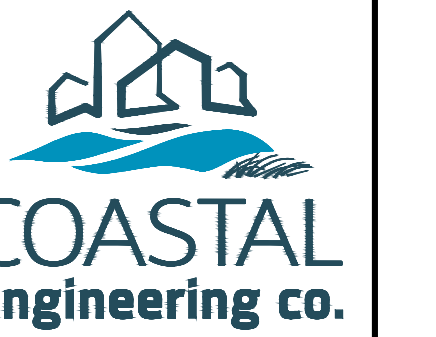


CONSTRUCTION SEQUENCE - SITE WORK:

1. THE CONTRACTOR SHALL EMPLOY DUST CONTROL METHODS AND MATERIALS AT ALL TIMES USING SPRINKLED WATER OR OTHER APPROVED MEANS. DO NOT USE OIL OR SIMILAR PENETRANTS. CHEMICAL MATERIALS MAY NOT BE USED ON SUB-GRADES OR AREAS TO BE SEEDED OR PLANTED.
2. INSTALL PERIMETER LIMIT OF WORK CONSTRUCTION FENCE AND SEDIMENTATION BARRIER AS INDICATED ON PLAN. PROTECT EXISTING DRAINAGE INLETS WITHIN AND ADJACENT TO CONSTRUCTION AREA.
3. INSTALL VEHICLE TRACK PAD AT ENTRANCE.
4. LOCATE AREAS OF MATERIALS STORAGE & STOCKPILE. SURROUND MATERIAL STOCKPILES WITH EROSION CONTROL BARRIER.
5. MAINTAIN EROSION CONTROL, BARRIERS, VEHICLE TRACK PAD, AND INLET PROTECTION THROUGHOUT CONSTRUCTION.
6. GRADE SITE.
7. INSTALL CONCRETE WALKWAY.
8. INSTALL PEASTONE.
9. INSTALL HANDRAILS.
10. STABILIZE & VEGETATE DISTURBED AREA.

EROSION & SEDIMENTATION CONTROL NOTES:

1. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION CONTROL AND PROTECTION OF DRAINAGE STRUCTURES UNTIL COMPLETION OF SITEWORK AND ESTABLISHMENT OF VEGETATIVE GROUND COVER.
2. THE CONTRACTOR SHALL PRACTICE GOOD HOUSEKEEPING MEASURES DURING THE DAY TO DAY OPERATION AT THE SITE. THE SITE SHOULD BE POLICED DAILY TO REMOVE ANY LITTER OR DEBRIS.
3. PRIOR TO CONSTRUCTION, INSTALL PERIMETER SEDIMENT BARRIER IN LOCATION(S) SHOWN ON PLAN. SEDIMENT BARRIER TO BE DOUBLE-STAKED STRAW BALES WITH SILT FENCE OR 12" STAKED COIR LOGS/SILT SOCK.
4. TEMPORARY SOIL MATERIAL STOCKPILES SHALL BE SURROUNDED WITH SILTATION BARRIER ON THE DOWNGRADIENT SIDE TO PREVENT DISCHARGE OF SEDIMENT FROM SITE. MATERIAL STOCKPILES THAT ARE IN PLACE FOR AN EXTENDED PERIOD OF TIME SHALL BE STABILIZED WITH VEGETATION, MULCHING, EROSION CONTROL BLANKETS, AND OTHER MEASURES THAT ARE NECESSARY TO PREVENT THE DISCHARGE OF SEDIMENT FROM THE PROJECT SITE.
5. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, ACCUMULATIONS OF SEDIMENT MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS.
6. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE.
7. EXCEPT AS PROVIDED BELOW, STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
 - WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS, STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
 - WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
8. FOR SLOPES LESS THAN OR EQUAL TO 2H:1V, IF EXPOSED SLOPES CAN NOT BE STABILIZED WITH HYDROSEEDING/VEGETATION, NORTH AMERICAN GREEN SCIOBEN (OR ENGINEERING APPROVED EQUAL) EROSION CONTROL BLANKETS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
9. FOR SLOPES > 2H:1V, < 1.5H:1V, NORTH AMERICAN GREEN SC 150 BN (OR ENGINEERING APPROVED EQUAL) EROSION CONTROL BLANKETS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.



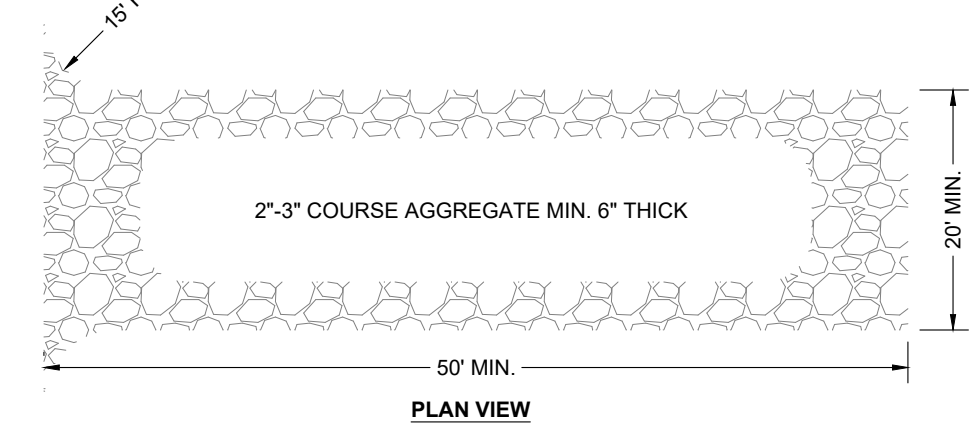
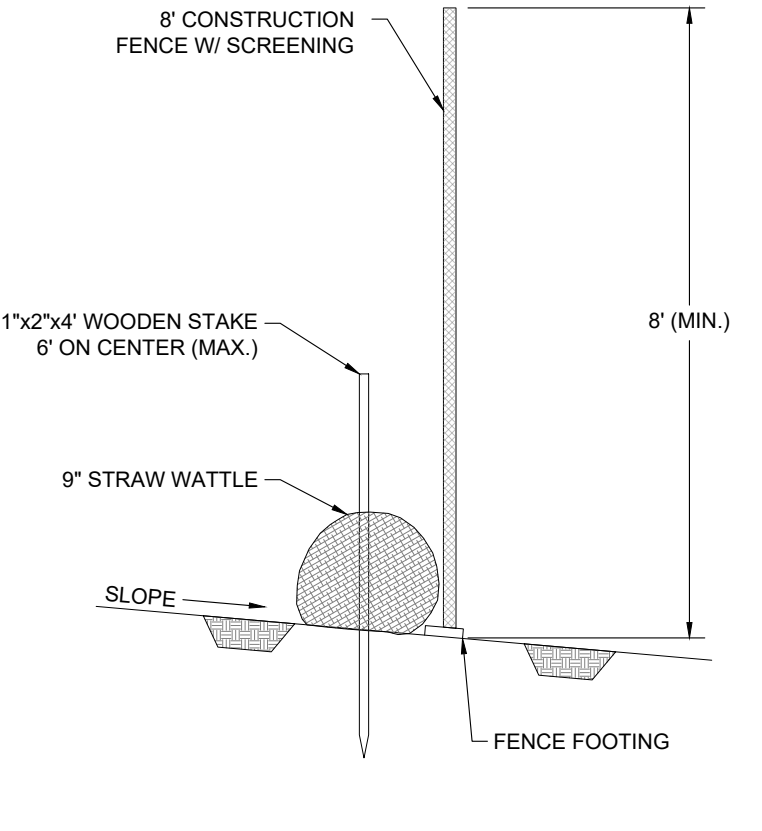
REV	DATE	DESCRIPTION

MAP 1
LOT 1000
N/F TOWN OF WAREHAM
32,031± S.F.

NOTES:

1. SILTATION BARRIER SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND MAINTAINED UNTIL RE-VEGETATION OF AREA DISTURBED BY CONSTRUCTION.
2. AREAS DISTURBED BY CONSTRUCTION SHALL BE RE-VEGETATED PRIOR TO COMPLETION OF PROJECT.
3. SEDIMENT SHALL BE REMOVED FROM BARRIER WHEN DEPTH EXCEEDS 1/3 THE HEIGHT OF THE STRAWBALE.

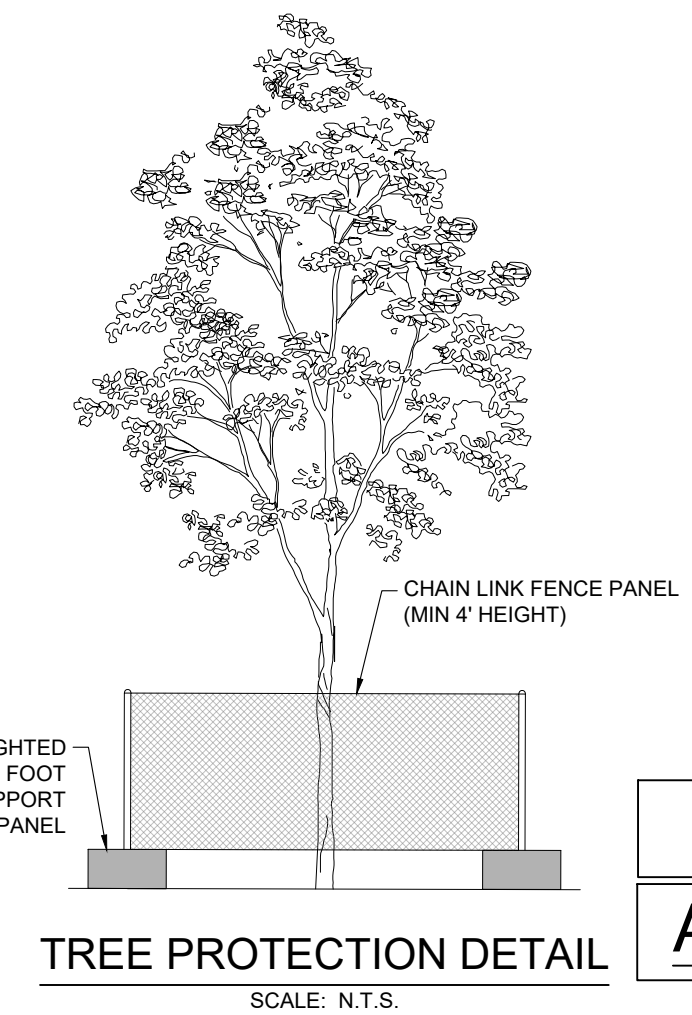
EROSION CONTROL CONSTRUCTION FENCE DETAIL
SCALE: N.T.S.



NOTES:

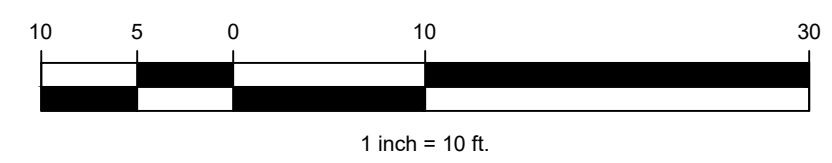
1. THE LOCATION OF THE STABILIZED CONSTRUCTION ENTRANCE/EXIT TO BE SPECIFIED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

STABILIZED CONSTRUCTION ENTRANCE DETAIL
SCALE: N.T.S.



TREE PROTECTION DETAIL
SCALE: N.T.S.

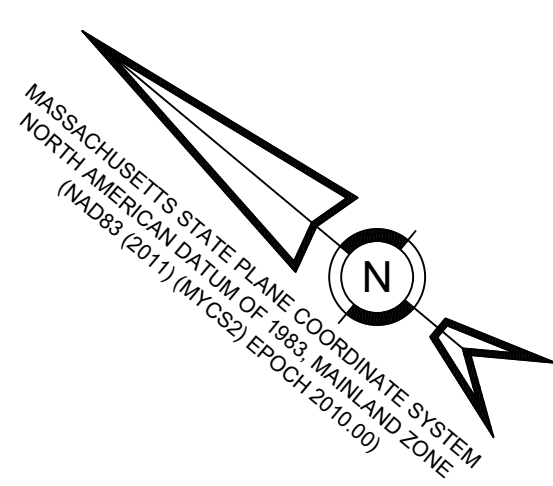
DEMOLITION & EROSION CONTROL PLAN
SCALE: 1" = 10'



BID DOCUMENTS
ADD ALTERNATE - 2

**LILLIAN GREGERMAN
BANDSHELL**
1 UNION AVENUE
ONSET, MA 02558

PROJECT/CLIENT NAME	DATE	2023-11-30
DRAWN BY	CHECKED BY	MDC DBR
PROJECT NUMBER	PROJECT STATUS	C19869.00
SHEET DESCRIPTION		ADD ALTERNATE - 2
DEMOLITION & EROSION CONTROL PLAN		
SHEET TITLE	CE101	
SHEET NUMBER	SHEET 01 OF 06	



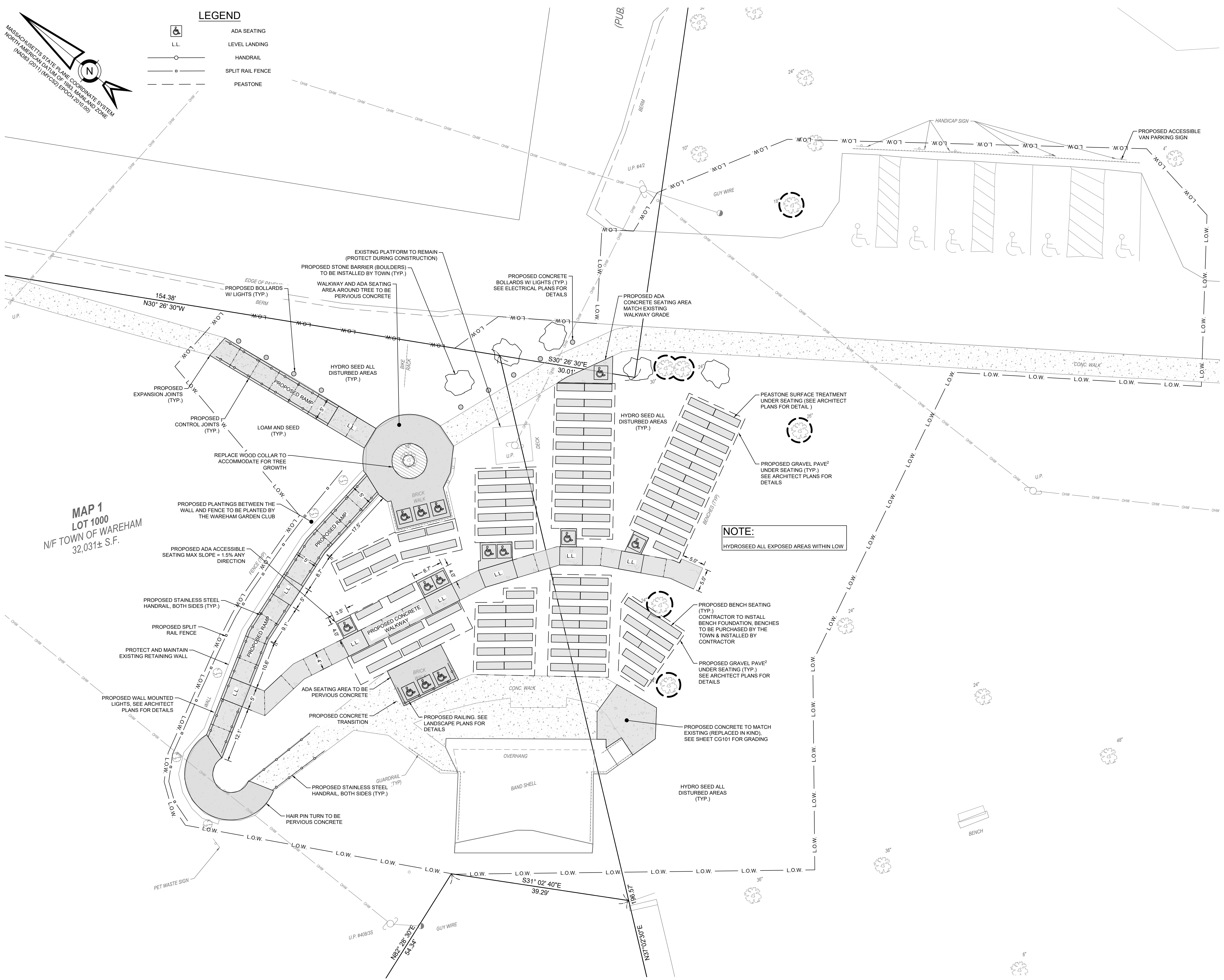
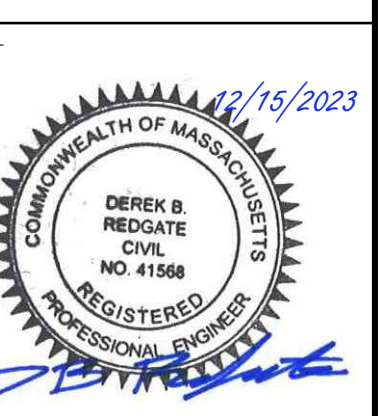
LEGEND

- ADA SEATING
- LEVEL LANDING
- HANDRAIL
- SPLIT RAIL FENCE
- PEASTONE

NOTES:

EXISTING CONDITION BACKGROUND SHOWN ON THIS PLAN IS A DIRECT REPRESENTATION FROM AN EXISTING CONDITIONS SURVEY DONE BY JC ENGINEERING, INC.

SEE PLAN TITLED "EXISTING CONDITIONS PLAN AT 1 UNION AVENUE IN WAREHAM MASSACHUSETTS" FOR THE TOWN OF WAREHAM BY JC ENGINEERING DATED 2022-05-13.



NO.	REV.	DATE	DESCRIPTION

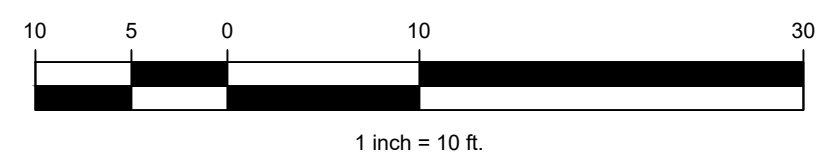
**LILLIAN GREGERMAN
BANDSHELL**

1 UNION AVENUE
ONSET, MA 02558

DATE: 2023-11-30
DRAWN BY: MDC | CHECKED BY: DBR
PROJECT NUMBER: C19869.00
PROJECT STATUS: ADD ALTERNATE - 2

**LAYOUT &
MATERIALS
PLAN**

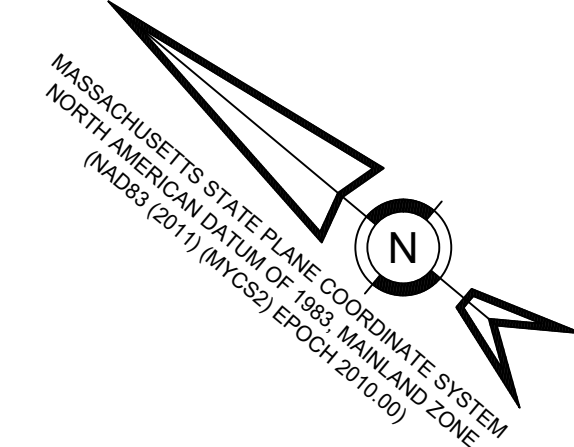
SHEET TITLE: **CM101**
SHEET NUMBER: SHEET 02 OF 06



BID DOCUMENTS
ADD ALTERNATE - 2

LEGEND

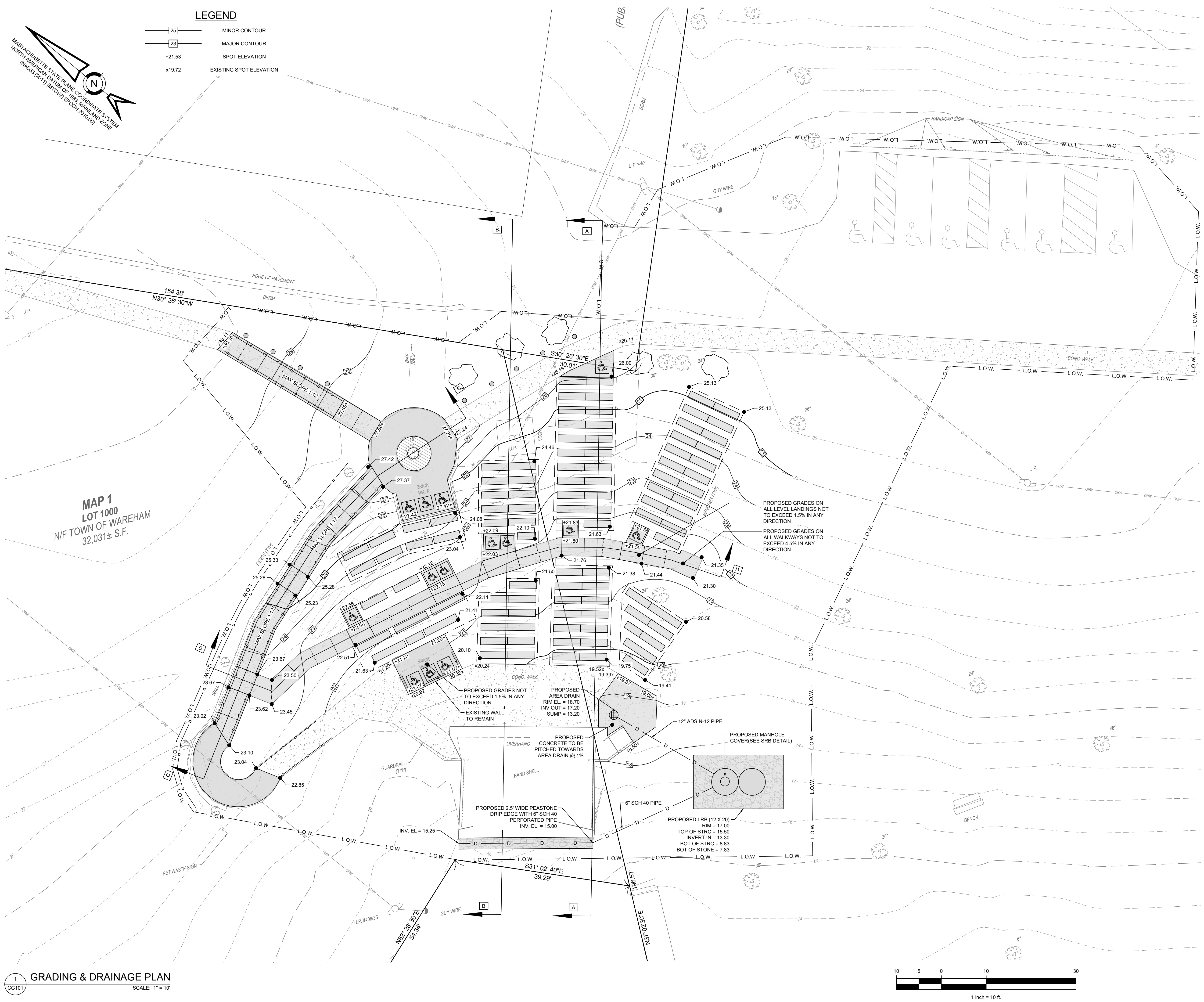
- 25 — MINOR CONTOUR
- 23 — MAJOR CONTOUR
- +21.53 SPOT ELEVATION
- x19.72 EXISTING SPOT ELEVATION



NOTES:

EXISTING CONDITION BACKGROUND SHOWN ON THIS PLAN IS A DIRECT REPRESENTATION FROM AN EXISTING CONDITIONS SURVEY DONE BY JC ENGINEERING, INC.

SEE PLAN TITLED "EXISTING CONDITIONS PLAN AT 1 UNION AVENUE IN WAREHAM MASSACHUSETTS" FOR THE TOWN OF WAREHAM BY JC ENGINEERING DATED 2022-05-13.



MAP 1
LOT 1000
N/F TOWN OF WAREHAM
32,031± S.F.

NO.	REV.	DATE	DESCRIPTION

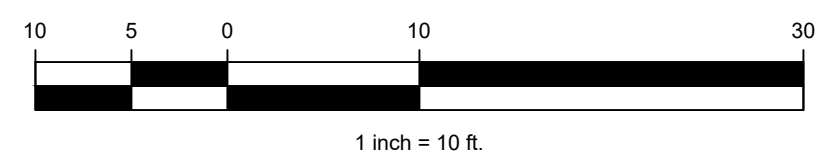
**LILLIAN GREGERMAN
BANDSHELL**
1 UNION AVENUE
ONSET, MA 02558

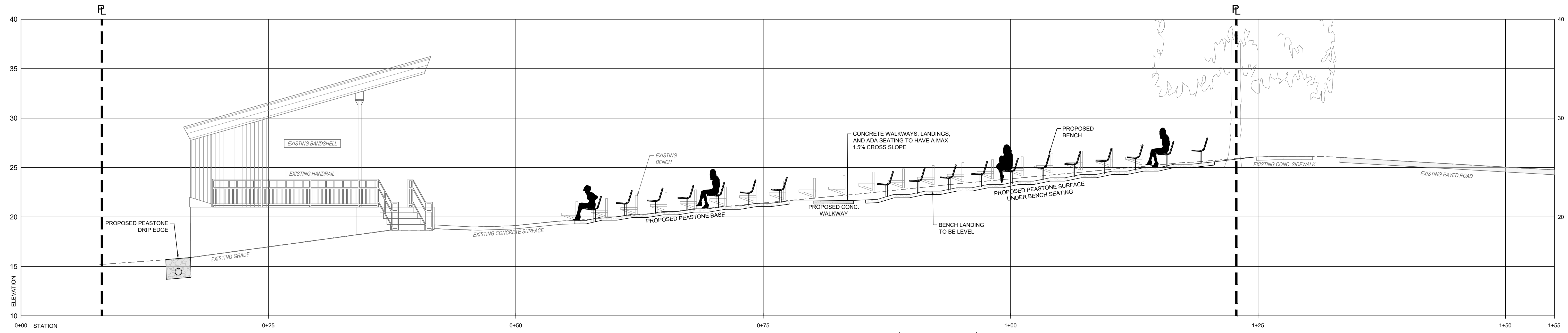
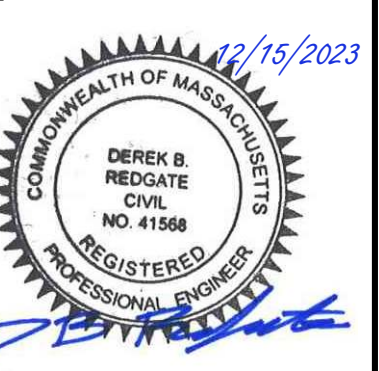
DATE: 2023-11-30
DRAWN BY: MDC CHECKED BY: DBR
PROJECT NUMBER: C19869.00
PROJECT STATUS: ADD ALTERNATE - 2

GRADING & DRAINAGE PLAN

BID DOCUMENTS
ADD ALTERNATE - 2

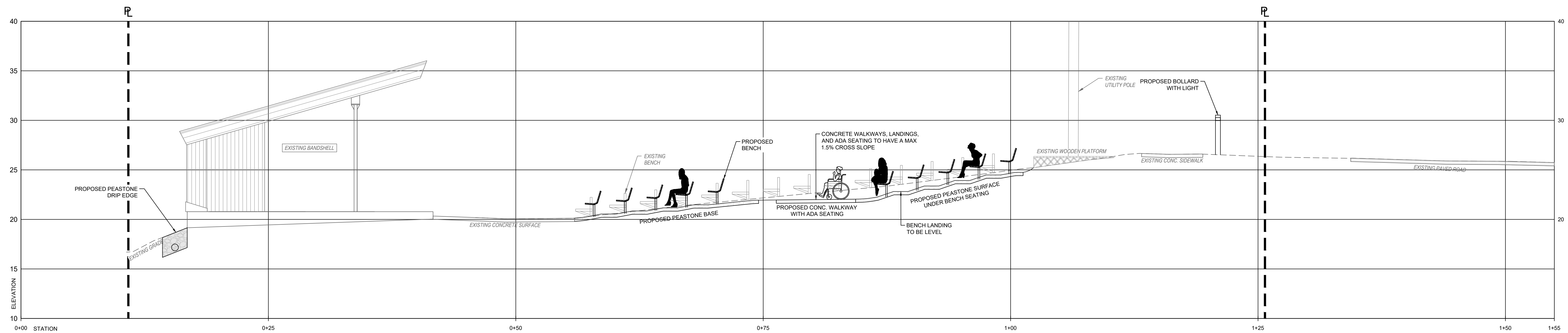
SHEET TITLE: **CG101**
SHEET NUMBER: SHEET 03 OF 06





CROSS-SECTION A - A
Vertical Scale: 1" = 1'
Horizontal Scale: 1" = 1'

FOR GRAPHICAL PURPOSES ONLY



CROSS SECTION B - B
Vertical Scale: 1" = 1'
Horizontal Scale: 1" = 1'

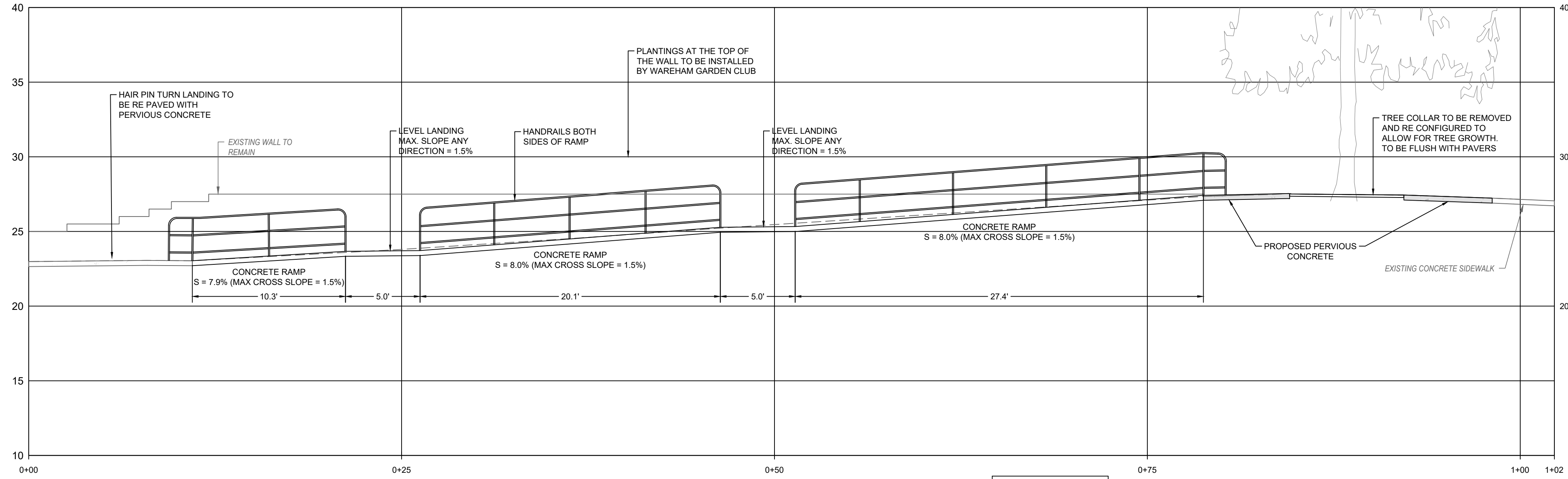
FOR GRAPHICAL PURPOSES ONLY

NO.	DATE	DESCRIPTION	CHK	DWN

LILLIAN GREGERMAN BANDSHELL
1 UNION AVENUE
ONSET, MA 02558

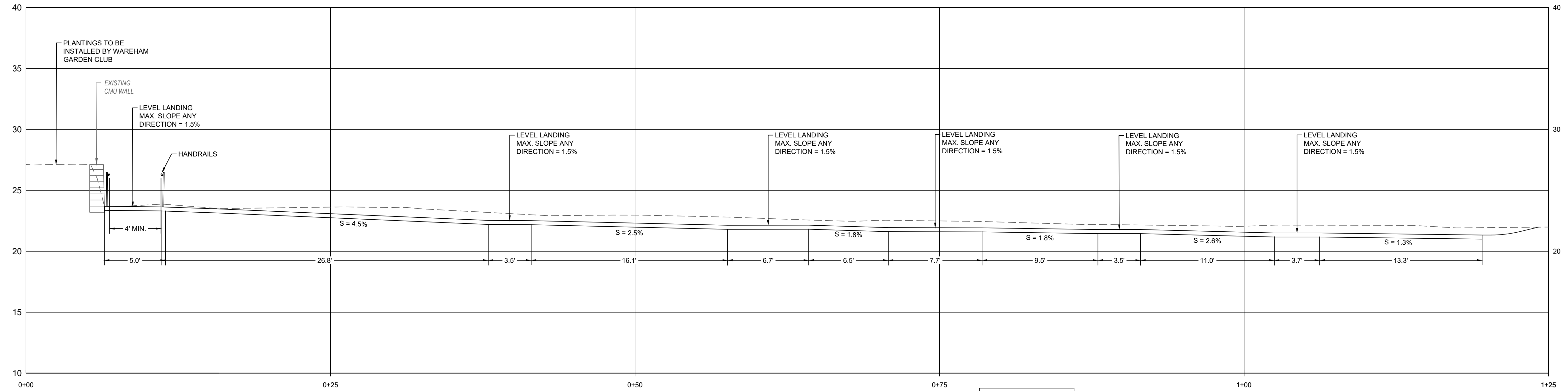
PROJECT/CLIENT NAME	LILLIAN GREGERMAN BANDSHELL		
DATE	2023-11-30	DRAWN BY	MDC
		CHECKED BY	DBR
PROJECT NUMBER	C19869.00	PROJECT STATUS	ADD ALTERNATE - 2
SHEET DESCRIPTION	SEATING AREA GRAPHICAL SECTIONS		
SHEET TITLE	C-301		
SHEET NUMBER	SHEET 04 OF 06		

BID DOCUMENTS
ADD ALTERNATE - 2



CROSS SECTION C - C
Vertical Scale: 1" = 1'
Horizontal Scale: 1" = 1'

FOR GRAPHICAL PURPOSES ONLY



CROSS SECTION D - D
Vertical Scale: 1" = 1'
Horizontal Scale: 1" = 1'

FOR GRAPHICAL PURPOSES ONLY

REV	DATE	DESCRIPTION	DWN	CHK

**LILLIAN GREGERMAN
BANDSHELL**

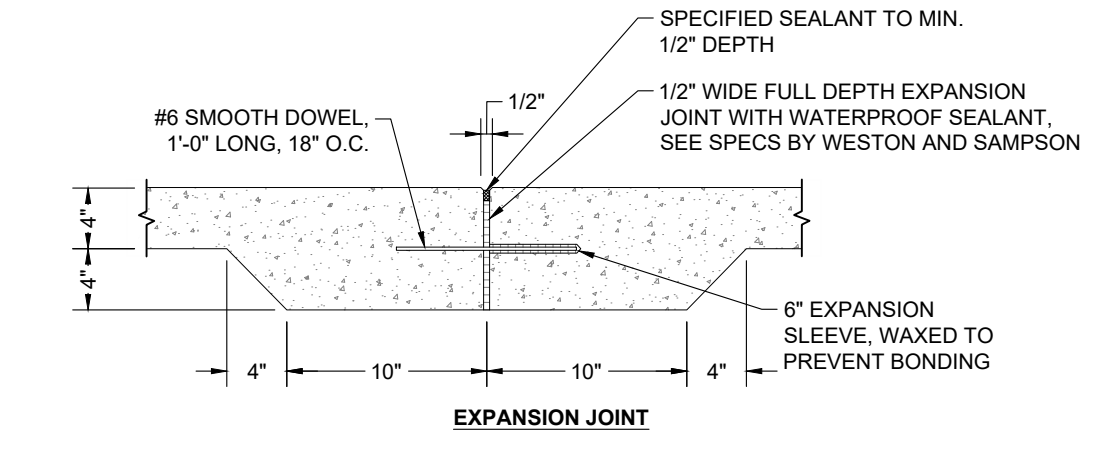
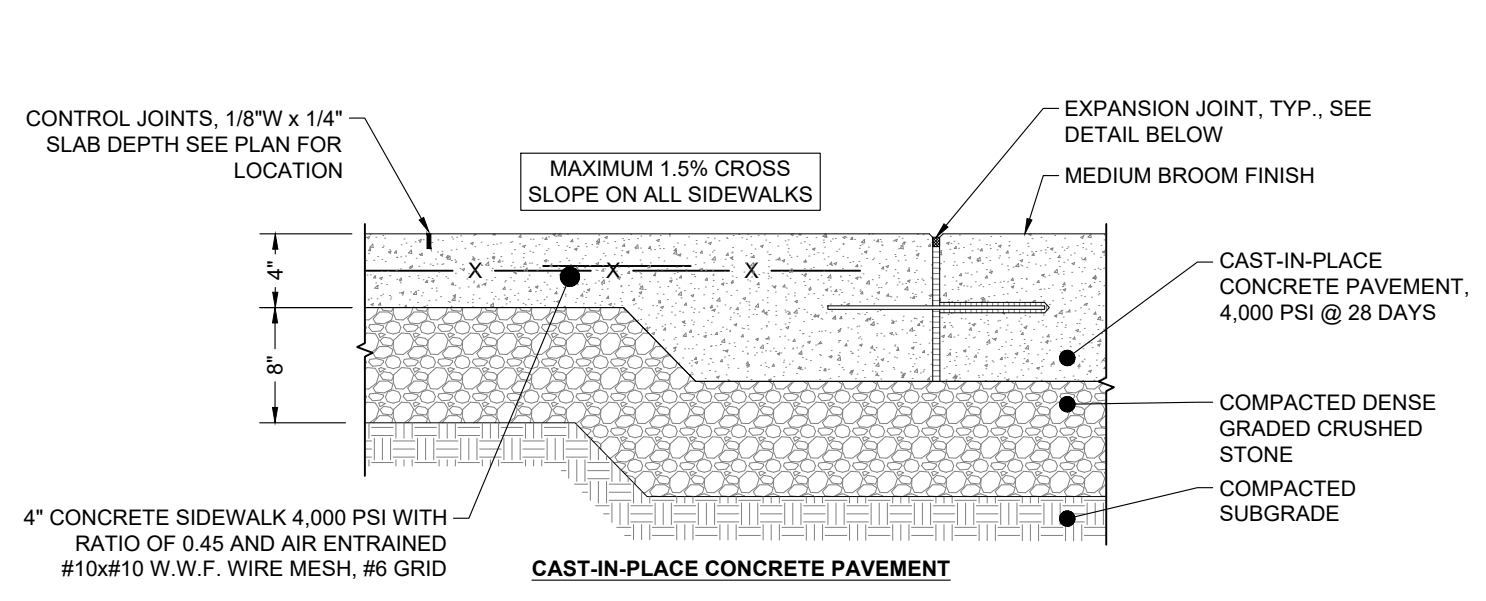
1 UNION AVENUE
ONSET, MA 02558

DATE	2023-11-30
DRAWN BY	MDC
CHECKED BY	DBR
PROJECT NUMBER	C19869.00
PROJECT STATUS	ADD ALTERNATE - 2
SHEET DESCRIPTION	WALKWAY CROSS SECTIONS

**WALKWAY
CROSS
SECTIONS**

SHEET TITLE	C-302
SHEET NUMBER	SHEET 05 OF 06

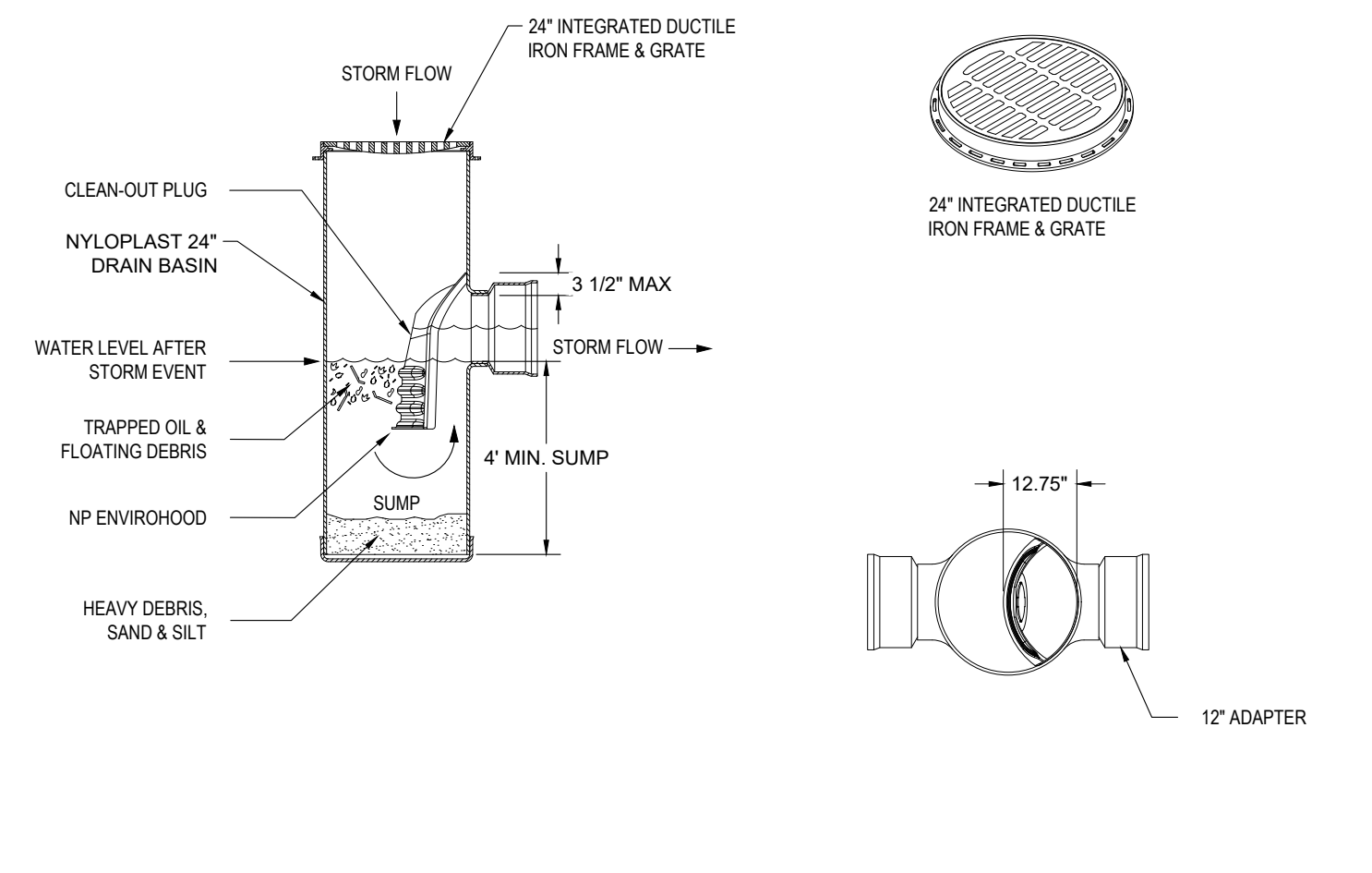
BID DOCUMENTS
ADD ALTERNATE - 2



- EXPANSION JOINT INSTALLATION NOTES:**
1. DOWEL IS TYPICAL AT ALL EXPANSION JOINTS (18" O.C.) WITHIN CONCRETE PAVING AND BETWEEN NEW CONCRETE PAVING AND EXISTING CONCRETE PAVING TO REMAIN.
 2. EXPANSION JOINTS MAX. 25' O.C. UNLESS SHOWN OTHERWISE.
 3. EXPANSION JOINTS SHALL BE PLACED WHERE NEW CEMENT CONCRETE PAVEMENT MEETS EXISTING PAVEMENT OR WALLS TO REMAIN.
 4. ALL CONTROL JOINTS SHALL BE SAW CUT.

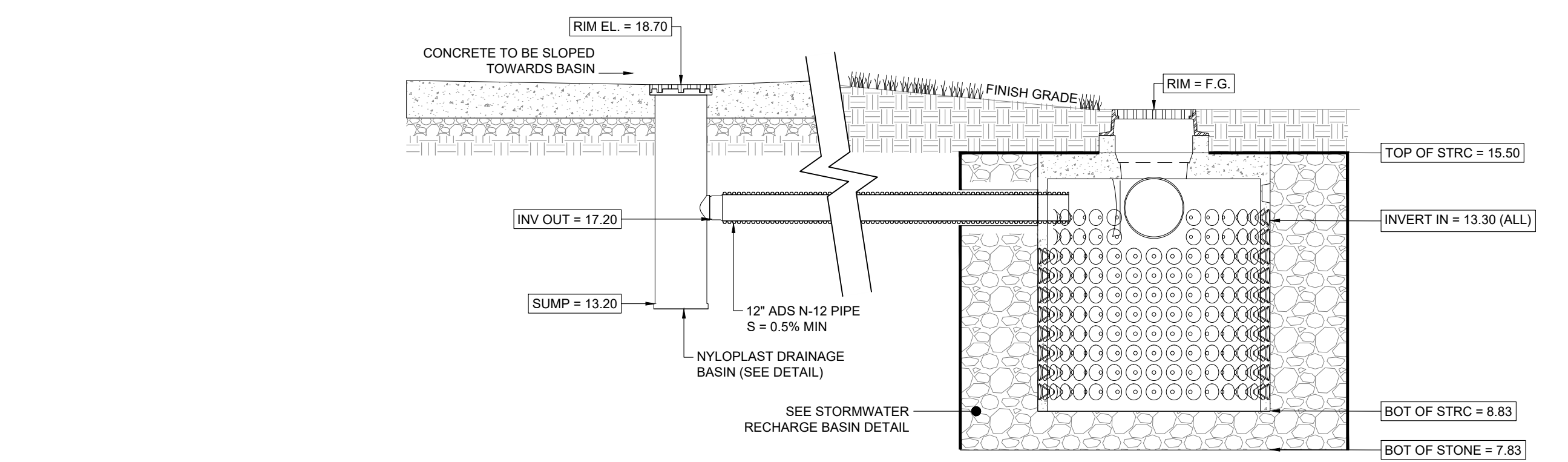
C.I.P. CONCRETE PAVEMENT - EXPANSION AND CONTRACTION JOINT

SCALE: N.T.S.



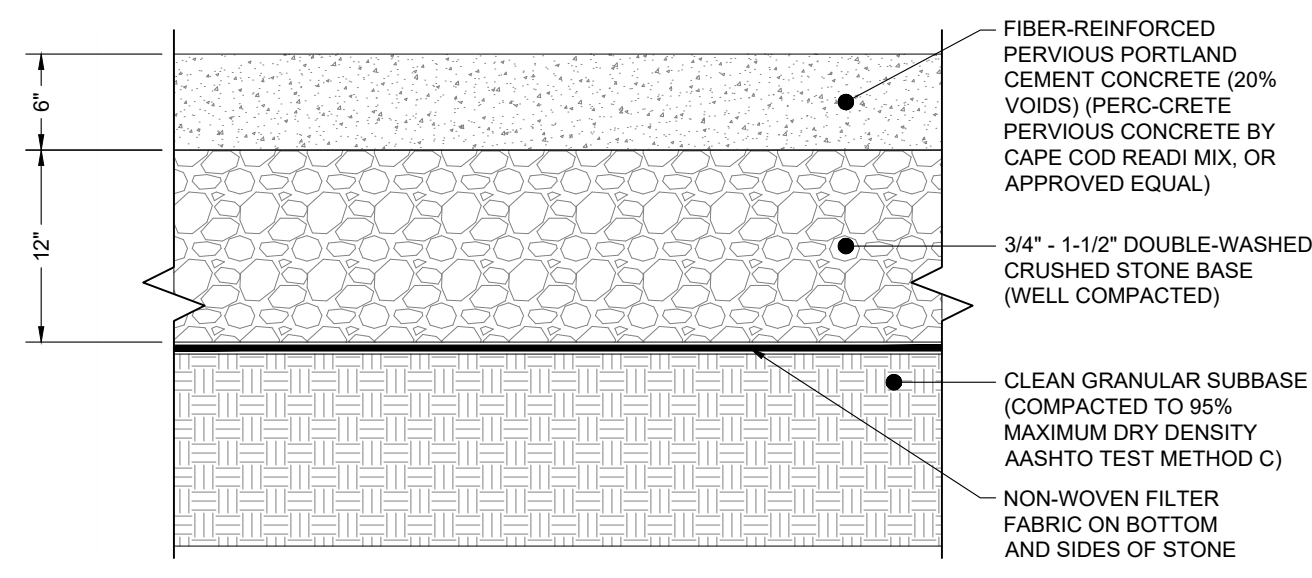
NYLOPLAST DRAINAGE BASIN WITH HOOD

SCALE: N.T.S.



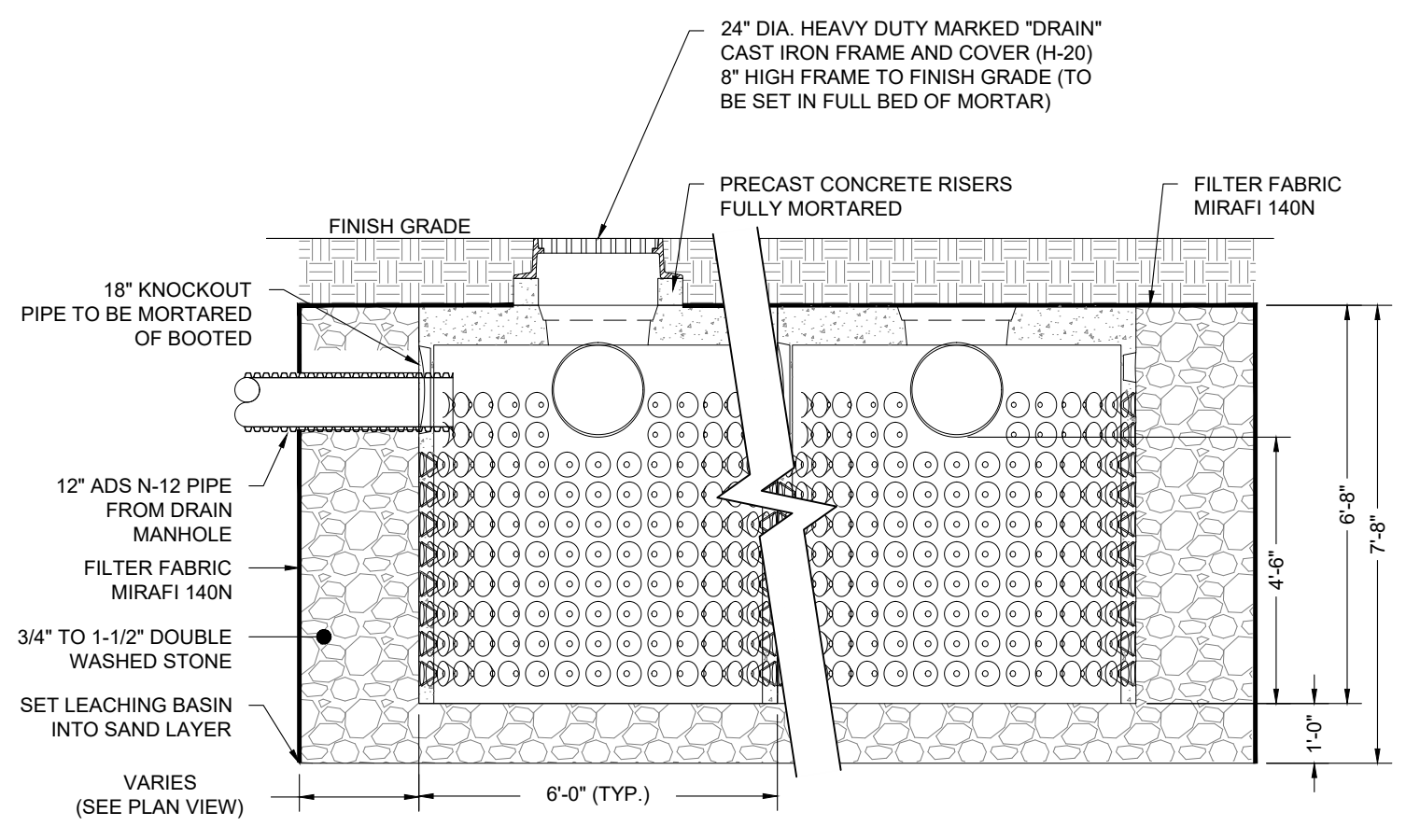
STORM WATER COLLECTION SYSTEM - PROFILE VIEW

SCALE: N.T.S.



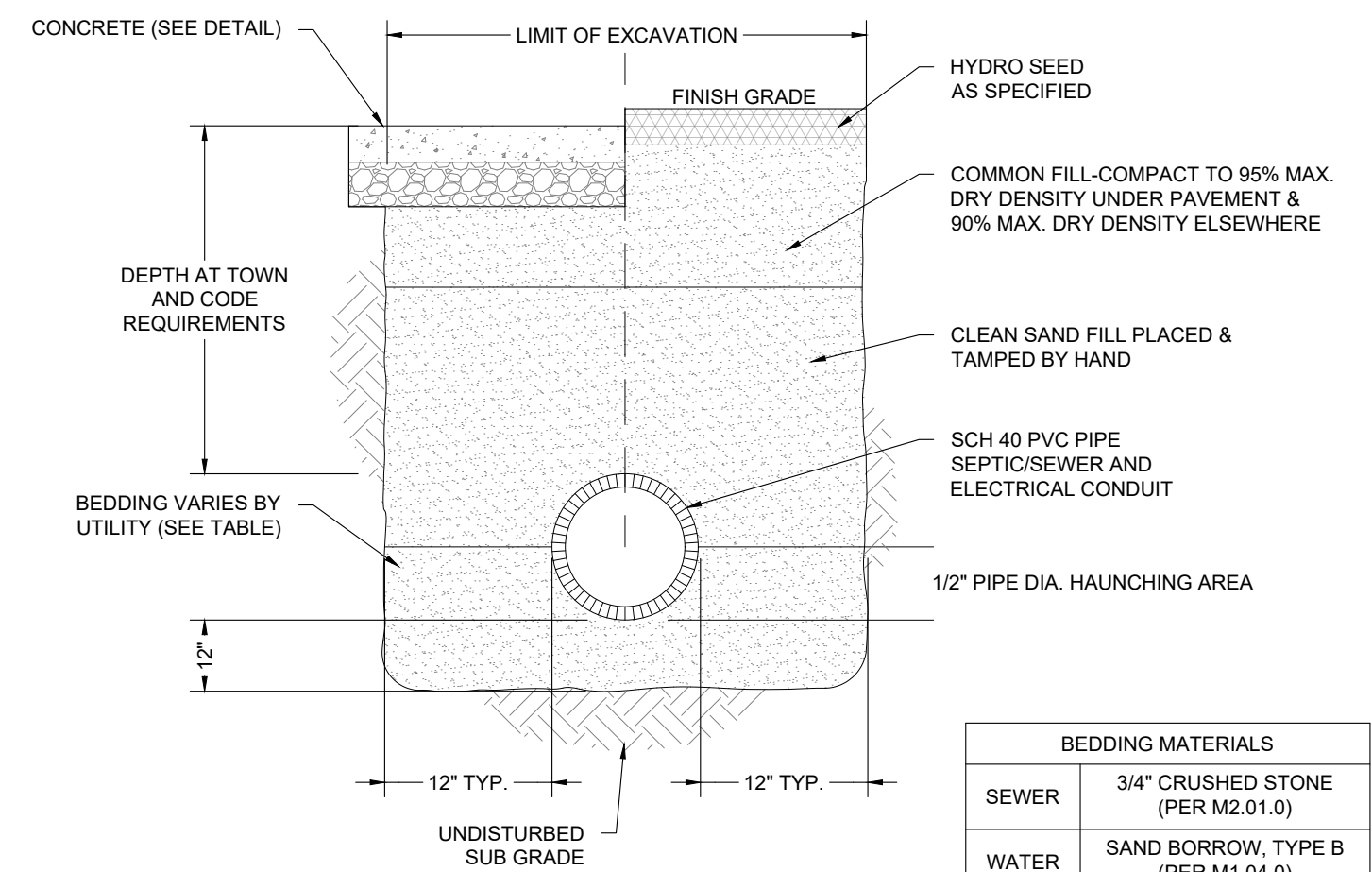
PERVIOUS CONCRETE PAVEMENT

SCALE: N.T.S.



SIDE VIEW OF STORMWATER RECHARGE BASINS (SRB) (H-20)

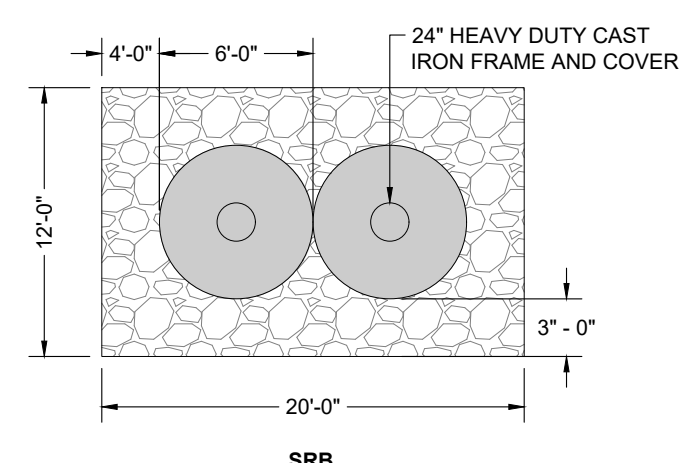
SCALE: N.T.S.



UTILITY TRENCH

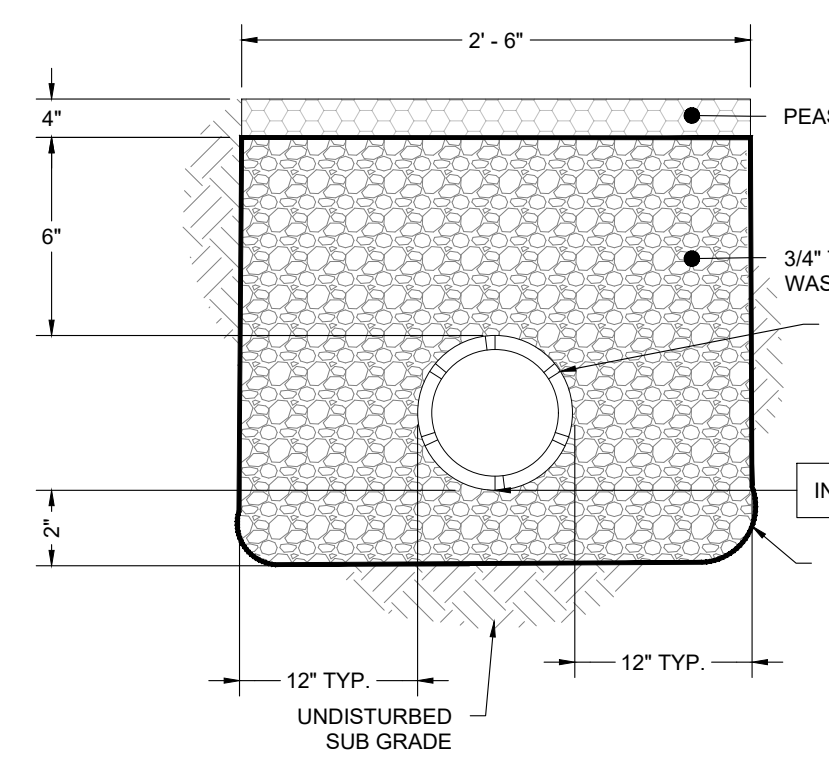
SCALE: N.T.S.

BEDDING MATERIALS	
SEWER	3/4" CRUSHED STONE (PER M2.01.0)
WATER	SAND BORROW, TYPE B (PER M1.04.0)
DRAIN	GRAVEL BORROW, TYPE D (PER M1.03.0)



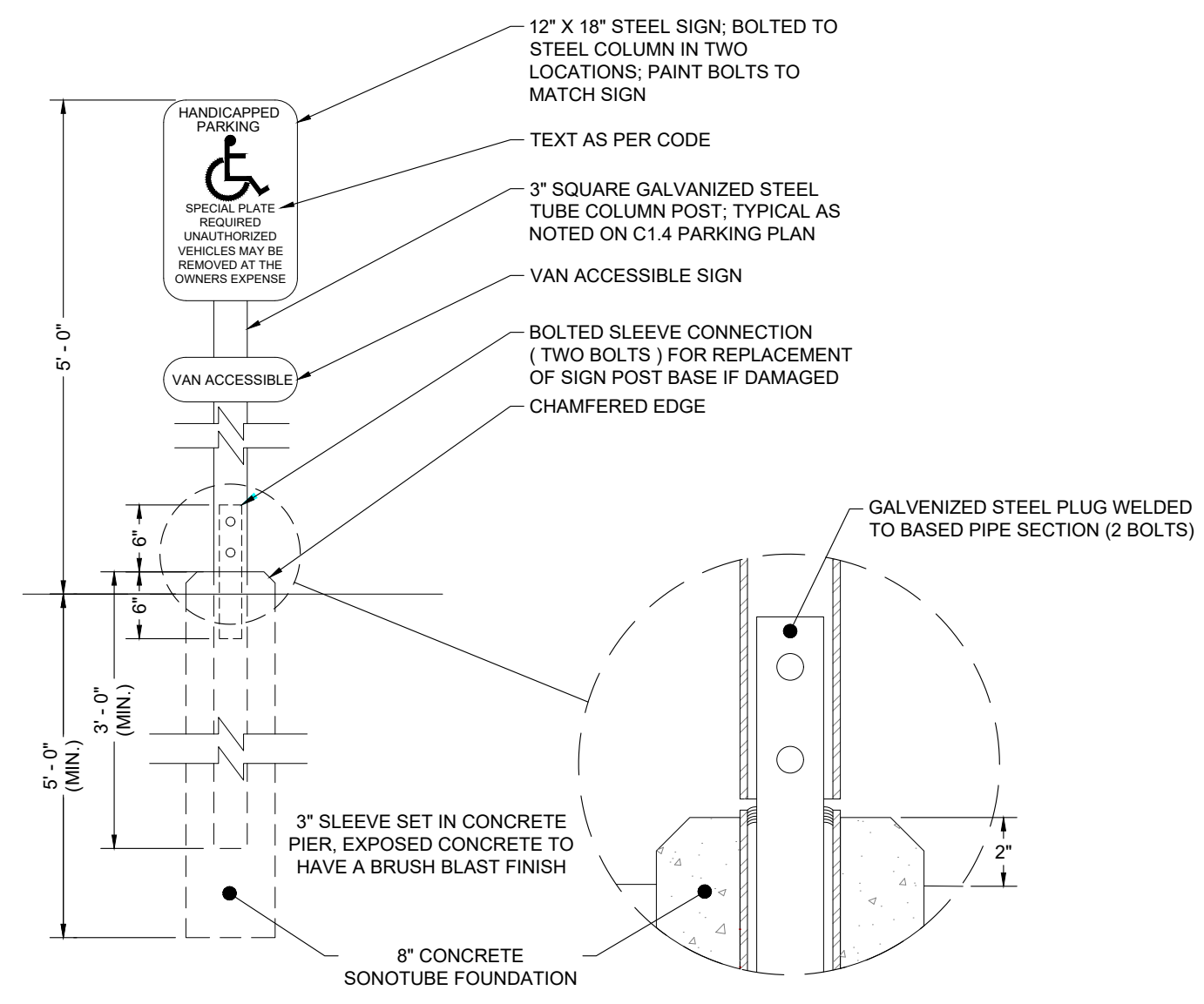
PLAN VIEWS OF STORMWATER RECHARGE BASIN (H-20)

SCALE: N.T.S.



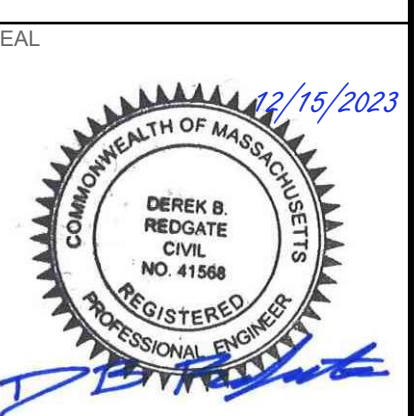
PEASTONE DRIP EDGE

SCALE: N.T.S.



SYMBOL OF ACCESSIBILITY SIGN (VAN ACCESSIBLE)

SCALE: N.T.S.



NO.	CHK	DATE	DESCRIPTION

LILLIAN GREGERMAN BANDSHELL

1 UNION AVENUE
ONSET, MA 02558

DATE	2023-11-30
DRAWN BY	MDC
CHECKED BY	DBR
PROJECT NUMBER	C19869.00
PROJECT STATUS	ADD ALTERNATE - 2
SHEET DESCRIPTION	SITE DETAILS

SITE DETAILS

SHEET TITLE	C-501
SHEET NUMBER	SHEET 06 OF 06

BID DOCUMENTS
ADD ALTERNATE - 2

SYMBOL LIST

LEGEND NOTES:

A. THIS SHEET IS A GENERAL LIST OF SYMBOLS AND ABBREVIATIONS AND SHALL BE USED AS A DICTIONARY TO DEFINE ITEMS INDICATED ON DRAWINGS. NOT ALL SYMBOLS OR ABBREVIATIONS ARE NECESSARILY USED ON THIS PROJECT. ALL EQUIPMENT IS TO BE PROVIDED UNDER THIS SECTION UNLESS SPECIFICALLY INDICATED OTHERWISE.

POWER

120/240 VOLT, 1 PHASE, 3 WIRE PANELBOARD.

WIRE AND RACEWAYS

WIRING AND RACEWAY - NO. OF DIAGONAL LINES INDICATES NO. #12 AWG CONDUCTORS. ABSENCE OF DIAGONAL LINES INDICATES 2 #12 AWG+#12AWG GROUND UNLESS NOTED OTHERWISE. GROUND WIRE IS NOT SHOWN IN COUNT BUT SHALL BE PROVIDED.

HOMERUN TO PANEL - NO. OF ARROWS INDICATES NO. OF 20 AMP/1 POLE CIRCUITS TO PANEL - UNLESS NOTED OTHERWISE.

LIGHTING FIXTURES (see lighting fixture schedule)

A1-2 FIXTURE KEYING SYSTEM
A1 = FIXTURE TYPE
32 = CIRCUIT #
32b = SWITCH CONTROL
2 = FIXTURE QUANTITY

○ LIGHTING FIXTURE, BOLLARD TYPE.
○ LIGHTING FIXTURE, WALL MOUNTED

MISCELLANEOUS DEVICES

TC TIMECLOCK- 7 DAY DIGITAL FURNISHED, INST & WIRED BY EC.

RECEPTACLES (typically mtd. at 18" a.f.f., uno)

GFI = GROUND FAULT INTERRUPTER TYPE.

WP = WEATHERPROOF RECEPTACLE WITH "NRTL" LISTED COVERPLATE FOR WET LOCATION WITH GFI TYPE RECEPTACLE INSTALLED IN NEMA 4 ENCLOSURE W/KEY LOCK.

20 AMP, 120 VOLT DUPLEX RECEPTACLE; "2" INDICATES CIRCUIT NUMBER.

20AMP, 120 VOLT DOUBLE DUPLEX RECEPTACLE.

GENERAL NOTES:

- THE SCOPE OF WORK SHALL INCLUDE PROVIDING ALL WORK INDICATED, AND COORDINATION WITH ALL TRADES. SCOPE OF WORK IS INDICATED ON THE CONTRACT DOCUMENTS INCLUDING THE DRAWINGS AND THE SPECIFICATIONS, WHICH ARE COMPLIMENTARY. WORK INDICATED IN ANY CONTRACT DOCUMENT SHALL BE CONSIDERED PART OF THE SCOPE OF WORK. IN GENERAL, WORK REQUIREMENTS ARE NOT INDICATED IN BOTH DOCUMENTS. WHERE DOCUMENTS CONFLICT WITHIN THEMSELVES OR WITH CODES AND REGULATIONS, PROVIDE THE HIGHER QUANTITY AND QUALITY AND FOLLOW THE STRICTER REQUIREMENTS.
- COORDINATE WITH THE GENERAL CONTRACTOR, OTHER TRADES AND OF MANUFACTURERS EQUIPMENT AND MAKE ALL FINAL CONNECTIONS AS REQUIRED, I.E., POWER, CONTROL, INTERLOCK, ETC.
- ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH OSHA, NFPA STANDARDS, THE ELECTRICAL CODE AND THE LOCAL GOVERNING AUTHORITIES. THE DRAWINGS AND SPECIFICATIONS DO NOT ATTEMPT TO INDICATE ALL WORK REQUIRED BY CODES AND AUTHORITIES.
- TEST ALL EQUIPMENT AND SYSTEMS INSTALLED TO CERTIFY COMPLIANCE WITH DRAWINGS, SPECIFICATIONS, CODES, LOCAL AUTHORITIES AND REGULATIONS. INCLUDE LABOR AND COSTS FOR TESTING, REVIEWS, APPROVALS AND CERTIFICATIONS.
- DRAWINGS ARE DIAGRAMMATIC ONLY. EXACT LOCATION, MOUNTING HEIGHTS OF EQUIPMENT AND ROUTING OF RACEWAYS SHALL BE COORDINATED WITH THE EQUIPMENT REQUIREMENTS AND FIELD CONDITIONS.
- EXISTING WIRING AND CONDUIT TO BE REMOVED BACK TO EXISTING PANEL.

WIRING NOTES:

- WIRING IS INDICATED ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
- WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
- ALL SWITCH CONTROLS SHALL BE PROVIDED WITH WIRING AND CONDUIT AS REQUIRED.
- ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE PROVIDED.
- RACEWAYS SHALL BE LIMITED TO SIX CURRENT CARRYING CONDUCTORS (THREE PHASE AND THREE NEUTRALS) AND GROUNDING CONDUCTOR, UNLESS OTHERWISE INDICATED. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH SINGLE PHASE RECEPTACLE CIRCUIT, FED FROM "K-RATED" TRANSFORMERS & PANELS, UNLESS AN OVERSIZED NEUTRAL IS SPECIFICALLY INDICATED.

ELECTRICAL SPECIFICATIONS

- CONTRACTOR SHALL PROVIDE A COMPLETE ELECTRICAL SYSTEM, INCLUDING THE FOLLOWING, BUT NOT LIMITED TO:
 - COMPLETE LIGHTING AND CONTROL SYSTEM.
 - COMPLETE BRANCH CIRCUIT WIRING SYSTEMS.
 - MOUNTING AND ERECTION OF AND/OR CONNECTION TO MOTORS, CONTROL SWITCHES AND/OR OTHER ELECTRICAL EQUIPMENT FURNISHED BY HEATING, VENTILATING, AIR CONDITIONING, GENERAL CONTRACTOR OR BY OWNER.
 - ALL CONDUIT FITTINGS, OUTLET BOXES, FLOOR BOXES, WIRING DEVICES, HANGER SUPPORTS, DISCONNECTS, SWITCHES, FUSES AND OTHER ITEMS REQUIRED INCIDENTAL FOR THE COMPLETION OF THE INSTALLATION.
- COORDINATE WORK WITH THAT OF ALL OTHER TRADES AFFECTING OR AFFECTED BY WORK OF THIS SECTION. COOPERATE WITH SUCH TRADES TO ASSURE A STEADY PROGRESS OF ALL WORK UNDER
- PROVIDE ALL CUTTING AND HOLE CORING. GENERAL CONTRACTOR WILL PROVIDE ALL PATCHING AND FINISH PAINTING.
- ALL MATERIAL AND WORK PROVIDED SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND NATIONAL CODES AND STANDARDS.
- BE RESPONSIBLE FOR FILING ALL DOCUMENTS, PAYMENT OF ALL PERMITS AND FEES, AND SECURING OF ALL INSPECTIONS AND APPROVALS NECESSARY.
- SUBMIT COMPLETE SHOP DRAWINGS IN ACCORDANCE WITH THE REQUIREMENTS OF THE GENERAL CONDITIONS AND SUPPLEMENTARY GENERAL CONDITIONS FOR WIRING DEVICES, BREAKERS, TIMECLOCK, ETC.
- ATTENTION IS DIRECTED TO PROVISIONS OF THE GENERAL CONDITIONS AND SUPPLEMENTARY GENERAL CONDITIONS REGARDING GUARANTEES AND WARRANTIES FOR WORK UNDER THIS CONTRACT. KEEP ENTIRE PORTION OF THE WORK IN REPAIR WITHOUT EXPENSE TO THE OWNER AS FAR AS CONCERNS DEFECTS IN WORKMANSHIP OR MATERIALS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.
- MINIMUM SIZE CONDUIT SHALL BE 3/4 INCH. GALVANIZED RIGID STEEL CONDUIT SHALL BE INSTALLED WHERE RACEWAYS ARE SUBJECT TO DAMAGE. PROVIDE INSULATED BUSHINGS ON ALL CONDUITS LARGER THAN 3/4 INCH. COUPLINGS FOR EMT SHALL BE COMPRESSION TYPE OR SET SCREW TYPE. PROVIDE PVC SCHEDULE 40 FOR ALL UNDERGROUND WIRING.
- FURNISH AND INSTALL ALL SUPPLEMENTARY STEEL, CHANNELS, AND SUPPORTS REQUIRED FOR THE PROPER INSTALLATION, MOUNTING, AND SUPPORT OF ALL EQUIPMENT. ALL CONDUCTORS SHALL BE MINIMUM SIZE #12 AWG, EXCEPT FOR CONTROL WIRING, AND FIRE ALARM WIRING WHERE #14 AWG MAY BE USED AS INDICATED ON THE PLANS. 120 VOLT BRANCH CIRCUIT HOMERUNS WHERE THE DISTANCE BETWEEN THE PANELBOARD AND FIRST OUTLET EXCEEDS 80' FOR 120 VOLTS AND 150' FOR 277 VOLTS SHALL BE #10 AWG. ALL FEEDERS AND BRANCH CIRCUIT WIRING SHALL BE COLOR CODED AS FOLLOWS:

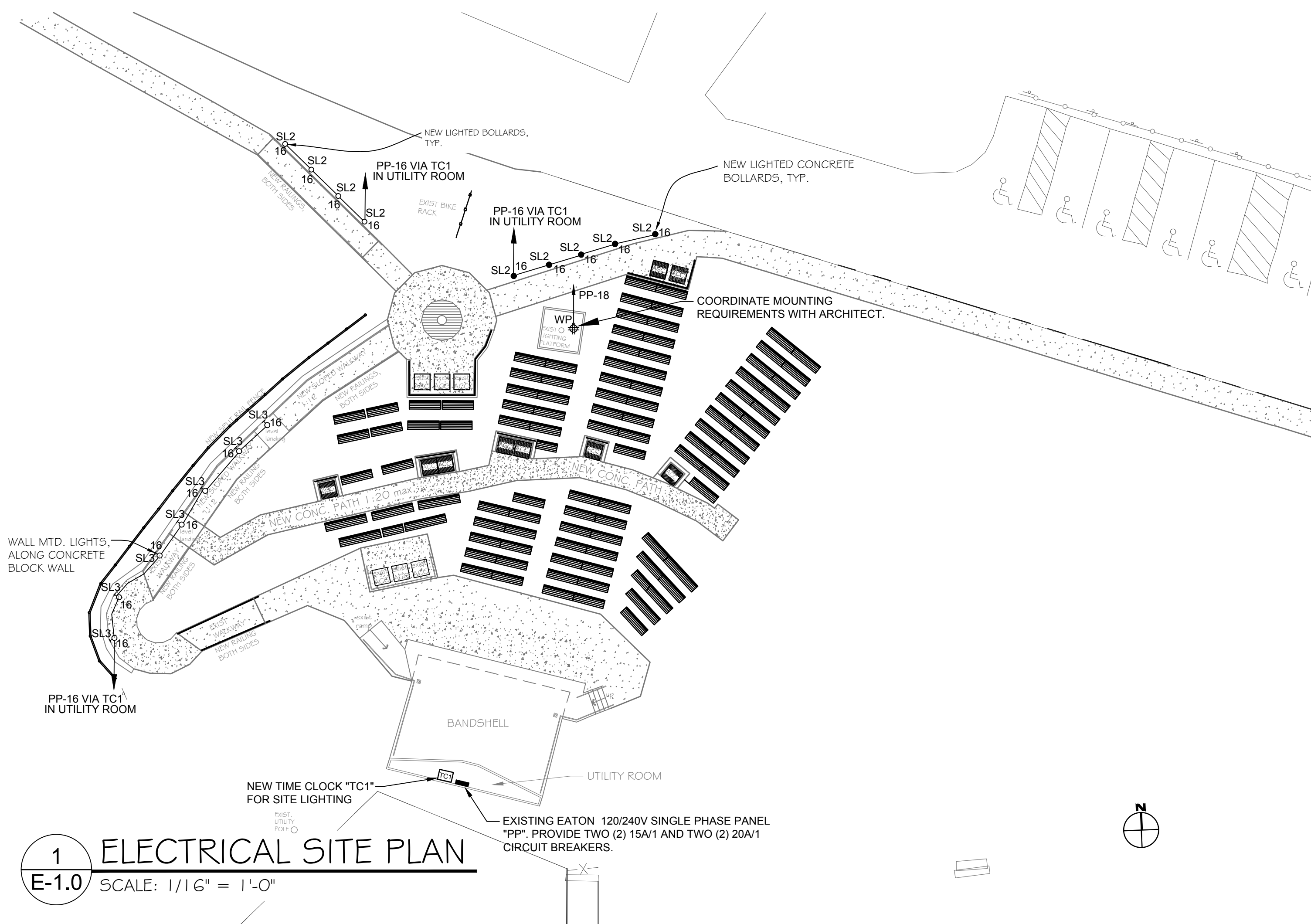
120/240V	PHASE A	BLACK
120/240V	PHASE B	RED
GROUNDING NEUTRAL	(120/240V)	WHITE
EQUIPMENT GROUND	(120/240V)	GREEN

ALL CONDUCTORS SHALL BE COPPER INSULATED FOR 600 VOLTS WITH THHN/THWN INSULATION. CONDUCTORS SHALL BE SOLID IN SIZES #10 AWG AND BELOW, OTHERWISE STRANDED.

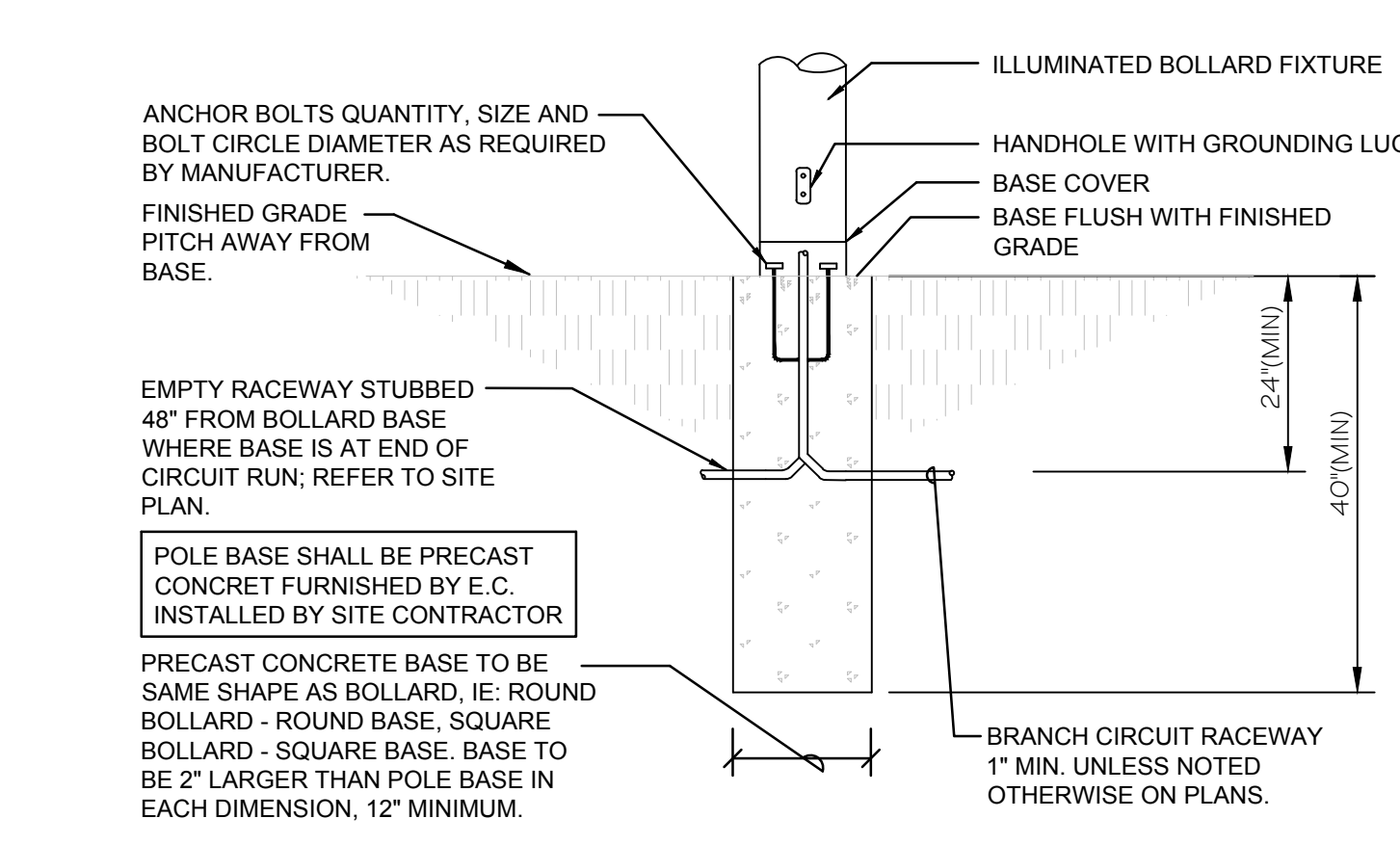
- FIREPROOF ALL OPENINGS IN FIRE WALLS AND THRU FLOORS FOR THE PASSAGE OF NEW ELECTRICAL RACEWAYS.
- SWITCHES: TWENTY (20) AMPERE, SHALL MATCH EXISTING. RECEPTACLES: TWENTY (20) AMPERE, SHALL MATCH EXISTING. GROUND FAULT INTERRUPTER, SHALL MATCH EXISTING. COVERPLATES: FOR OUTLETS AND BLANK COVERS, FINISHES TO MATCH EXISTING STAINLESS STEEL.
- THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXISTING CONDITIONS THAT WILL EFFECT THE BID.
- THE CONTRACTOR SHALL PROVIDE ALL GROUNDING IN ACCORDANCE WITH NATIONAL ELECTRIC CODE REQUIREMENTS.

TYPE	MANUFACTURER	MODEL / SERIES	MTG.	VOLTAGE	LIGHT SOURCE			DESCRIPTION	SCHEDULE NOTES
					LUMENS	WATTS	TYPE		
SL2	US ARCHITECTURAL	BDC8-LED-CL-24LED-NW-120-RAL-7004-GROUND		120	2400	24	LED/4000K	GROUND MOUNTED BOLLARD FIXTURE - COLOR BY ARCHITECT.	
SL3	US ARCHITECTURAL	3062-8LED-NW-120-RAL-7004-T	S	120	1400	14	LED/4000K	LED WALL MOUNTED FIXTURE - COLOR BY ARCHITECT.	

C	COVE	U	UNIVERSAL
P	PENDANT	W	WALL
R	RECESSED	AC	AIRCRAFT CABLE
S	SURFACE	BOL	BOLLARD



1 ELECTRICAL SITE PLAN
E-1.0 SCALE: 1/16" = 1'-0"



2 SITE LIGHTING BOLLARD DETAIL
E-1.0 SCALE: N.T.S.

ALL ELECTRICAL WORK ON THIS DRAWING SHALL BE UNDER ADD ALTERNATE #2

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Lillian Gregerman Bandshell
1 Union Ave.
Onset, MA 02558

Drawn By: JR
Checked: DMP
Date: 12.15.2023
Scale: AS NOTED

E-1.0

