

**LOCATION MAP**

SCALE: 1"=500'-0"

# CONSTRUCTION DOCUMENT PLANS

FOR

## OAKLAND BEACH PLAYGROUND, SPLASHPAD & STORMWATER IMPROVEMENTS



**VICINITY MAP**

SCALE: 1"=80'-0"

### OAKLAND BEACH AVENUE WARWICK, RHODE ISLAND

RFP/BID # 2024-091

PREPARED FOR:

**CITY OF WARWICK RHODE ISLAND**  
Oakland Beach Avenue  
Warwick, Rhode Island 02886

PREPARED BY:



ARCHITECTURE ENGINEERING ENVIRONMENTAL LAND SURVEYNG

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REGISTERED LANDSCAPE ARCHITECT

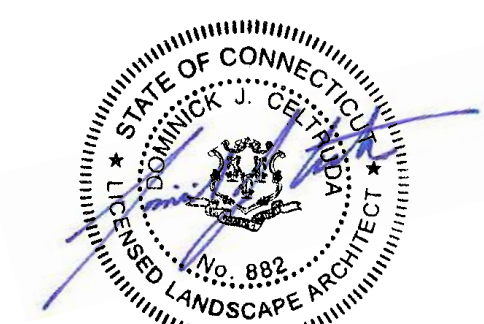
PER \_\_\_\_\_  
DOMINICK CELTRUDA, RLA  
RI PROFESSIONAL REGISTRATION NO. 648

DATE \_\_\_\_\_

ENGINEER

PER \_\_\_\_\_  
NICHOLAS R. GIARDINA, P.E.  
RI PROFESSIONAL ENGINEER NO. 0007828

DATE \_\_\_\_\_



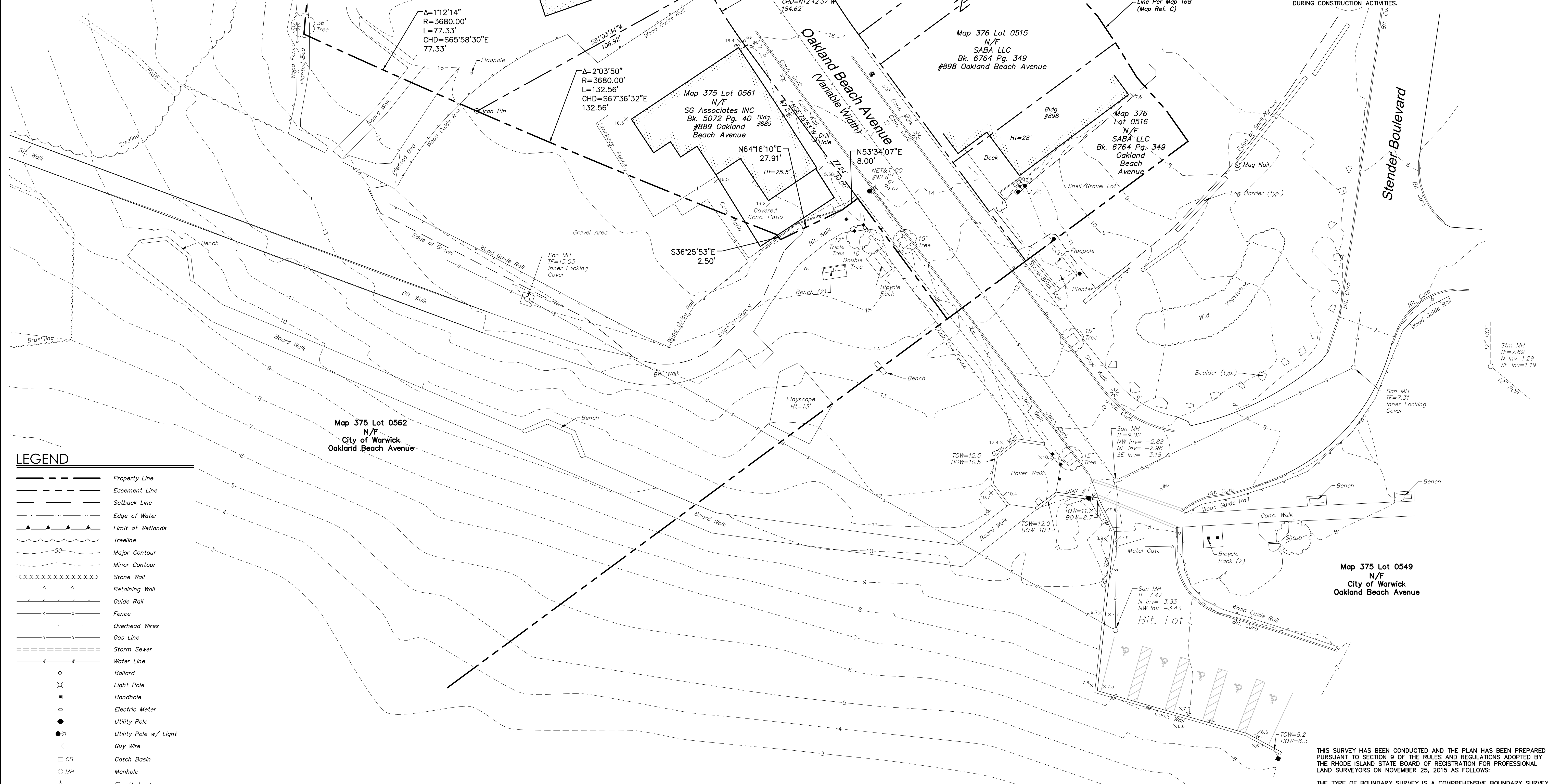
**DATES**

ISSUE DATE: JUNE 2023  
REVISION:





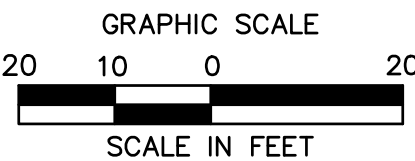
**LOCATION MAP**  
NOT TO SCALE



**LEGEND**

	Property Line
	Easement Line
	Setback Line
	Edge of Water
	Limit of Wetlands
	Treeline
	Major Contour
	Minor Contour
	Stone Wall
	Retaining Wall
	Guide Rail
	Fence
	Overhead Wires
	Gas Line
	Storm Sewer
	Water Line
	Bollard
	Light Pole
	Handhole
	Electric Meter
	Utility Pole
	Utility Pole w/ Light
	Guy Wire
	Catch Basin
	Manhole
	Fire Hydrant
	Water Valve
	Deciduous Tree
	Coniferous Tree

THIS SURVEY WAS PREPARED DURING THE COVID-19 PANDEMIC OF 2020-2021 AT WHICH TIME PHYSICAL ACCESS TO THE LOCAL LAND RECORDS AND OTHER MUNICIPAL OFFICES HAS NOT BEEN AVAILABLE. AS A RESULT, THIS SURVEY HAS BEEN BASED ON TITLE RESEARCH DERIVED FROM ON-LINE RECORDS AND OTHER SOURCES AND IS SUBJECT TO THE RESULTS OF A PROPER TITLE SEARCH.



**MAP REFERENCES**

- A. "TOPGRAPHIC SURVEY OAKLAND BEACH AVENUE WARWICK, RHODE ISLAND SCALE: 1"=20' DATE: DECEMBER 23, 2005 PREPARED FOR: S.G. ASSOCIATES, INC., PREPARED BY JOHN W. GREENE NO. 1638 PROFESSIONAL LAND SURVEYOR
- B. "ADMINISTRATIVE SUBDIVISION A.P. 375 LOTS 439 & 549 596 SGT.1. TO BE CONVEYED BY: CITY OF WARWICK TO: S.G. ASSOCIATES, INC. OAKLAND BEACH AVENUE WARWICK, RHODE ISLAND, SCALE: 1"=20' DATE: SEPTEMBER 5, 2007, REVISED 9-7-2007, PREPARED BY MICHAEL J. PAOLINO NO. 1798 PROFESSIONAL LAND SURVEYOR AND FILED AS MAP 1378.
- C. "MAP OF OAKLAND BEACH WARWICK, R.I. BY J.A. LATHAM, FEBRUARY, 1903", FILED AS MAP 168.
- D. "ADMINISTRATIVE SUBDIVISION GRADING PLAT, ASSESSORS PLAT 376, LOTS 437, 438, & 509-512, WARWICK, RHODE ISLAND, SCALE: 1"=20', MAY, 2018, REV. 9/24/18, PREPARED FOR: SG ASSOCIATES, INC., PREPARED BY: ALPHA ASSOCIATES, LTD., EAST GREENWICH, RI 02818, FILED AS MAP 1654.

**GENERAL NOTES**

- NORTH ARROW AND BEARINGS REFER TO RHODE ISLAND STATE PLANE COORDINATES NAD 83 AND ARE BASED UPON GPS OBSERVATIONS BY BL COMPANIES JUNE 2021.
- ELEVATIONS REFER TO NAVD 88 AND ARE BASED ON GPS OBSERVATIONS BY BL COMPANIES JUNE 2021.
- PARCEL IS LOCATED PARTIALLY IN ZONE-AE (BASE FLOOD ELEVATIONS DETERMINED), AND ZONE-VE (COASTAL FLOOD ZONE WITH VELOCITY HAZARD (WAVE ACTION); BASE FLOOD ELEVATIONS DETERMINED). THESE AREAS ARE DETERMINED TO BE INSIDE THE 1% ANNUAL CHANCE FLOODPLAIN, AS DEPICTED ON F.I.R.M. MAP 4400300142H, PANEL 142 OF 251, REVISED DATE: SEPTEMBER 18, 2013.
- THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED THOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF EXCAVATION.
- THERE WAS NO EVIDENCE OF RECENT EARTH MOVING WORK, BUILDING CONSTRUCTION, OR BUILDING ADDITIONS OBSERVED IN THE PROCESS OF CONDUCTING THE FIELDWORK.
- THERE WERE NO PROPOSED CHANGES IN STREET RIGHT OF WAY LINES, OR EVIDENCE OF RECENT STREET OR SIDEWALK CONSTRUCTION OR REPAIRS OBSERVED IN THE PROCESS OF CONDUCTING THE FIELDWORK.
- THERE IS AN EXISTING 1 1/2" WATER LINE THAT HAS BEEN ABANDONED, THAT COMES IN FROM HEWITT STREET. WATER DIVISION HAS CONFIRMED ITS ABANDONMENT. CONTRACTOR MAY REMOVE AS NECESSARY IF ENCOUNTERED DURING CONSTRUCTION ACTIVITIES.



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**CITY OF WARWICK  
OAKLAND BEACH PLAYGROUND AND SPLASHPAD  
OAKLAND BEACH AVENUE  
CITY OF WARWICK, COUNTY OF KENT, STATE OF RHODE ISLAND**

REVISIONS

No.	Date	Desc.
1		

Surveyed J.C. SB  
Drawn J.C.  
Reviewed P.J.C.  
Scale 1"=20'  
Project No. 2100515  
Date 7/14/2021  
Field Book S61  
CAD File: EX210051501

Sheet No.

**BOUNDARY SURVEY**

EX-1

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON NOVEMBER 25, 2015 AS FOLLOWS:  
THE TYPE OF BOUNDARY SURVEY IS A COMPREHENSIVE BOUNDARY SURVEY. THE MEASUREMENT SPECIFICATION IS CLASS 1.  
THE PURPOSE OF THE SURVEY AND FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS TO DEPICT THE EXISTING CONDITIONS WITH RESPECT TO BOUNDARY LINES, EASEMENTS, AND FOUND MONUMENTATION.

DATED: \_\_\_\_\_ SIGNED: \_\_\_\_\_  
JENNIFER MARKS, PLS. NO. 1960  
COA #LS.004457E-COA

Jun 14, 2023 12:00pm: \\blcomp\GIS\08271\VA\2100515\DWG\EXD\0051501.dwg  
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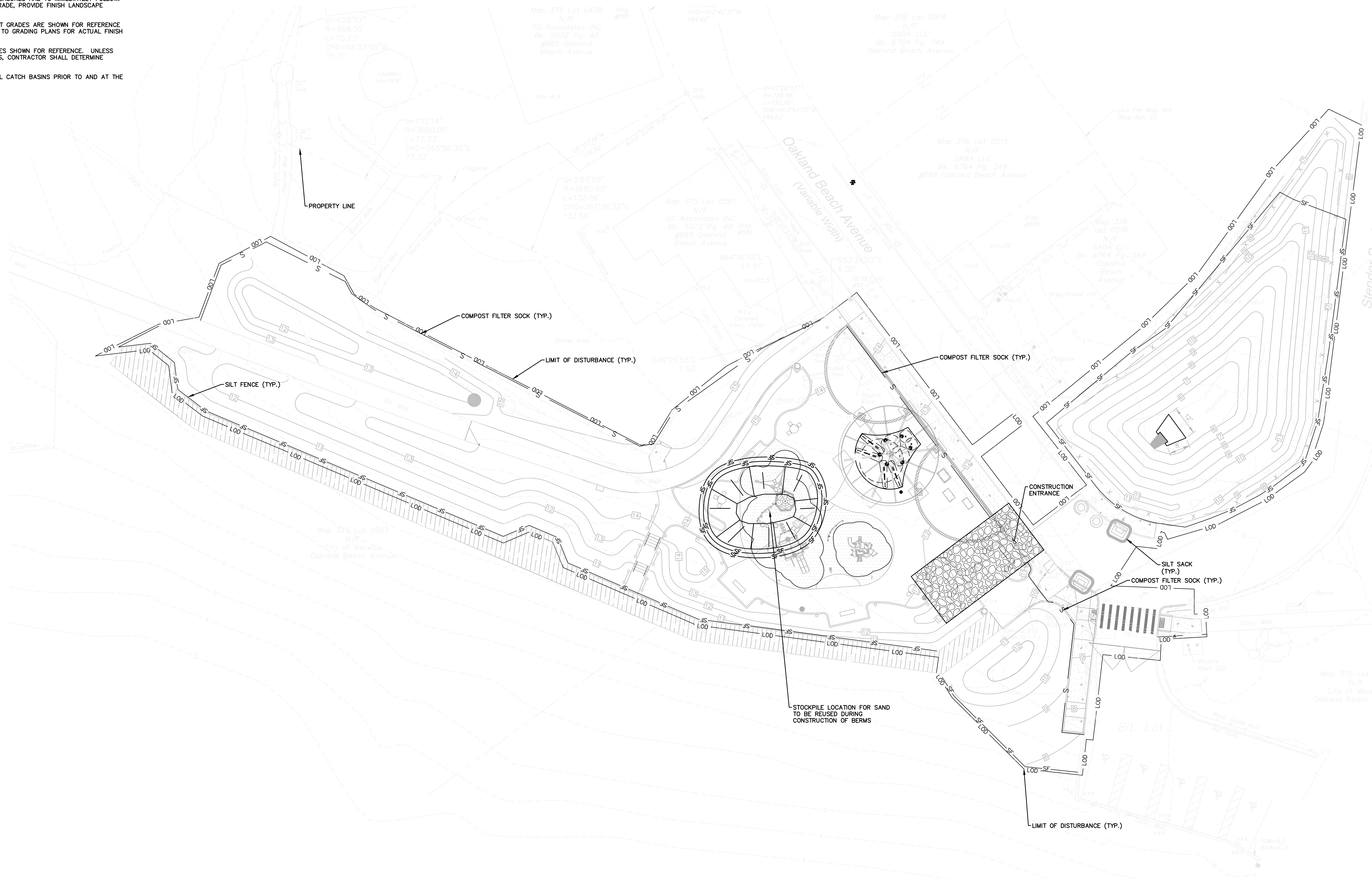
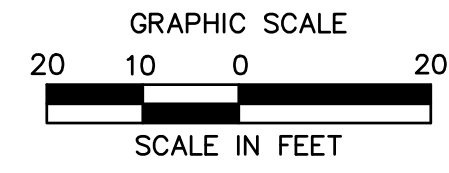
**EROSION AND SEDIMENT CONTROL LEGEND**

SYMBOL	NAME
	LIMIT OF DISTURBANCE/CONTRACT LIMIT LINE
	PROPERTY LINE
	SILT FENCE
	FILTER SOCK
	CATCH BASIN SILT SACK INSERT

REFER TO SHEET EC-02 FOR EROSION AND SEDIMENT CONTROL NOTES

**PLAN NOTES:**

- GRUBBING ACTIVITIES TO OCCUR IN STAGES AND ONLY WHERE EXCAVATION AND SUBSEQUENT STABILIZATION MEASURES ARE TO IMMEDIATELY FOLLOW. UPON ESTABLISHMENT OF FINISH GRADE, PROVIDE FINISH LANDSCAPE TREATMENT.
- FINISH GRADE CONTOURS AND SPOT GRADES ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL REFER TO GRADING PLANS FOR ACTUAL FINISH GRADE CONDITIONS.
- PROPOSED UTILITIES AND CURB LINES SHOWN FOR REFERENCE. UNLESS OTHERWISE NOTED ON THESE PLANS, CONTRACTOR SHALL DETERMINE SEQUENCE OF INSTALLATION.
- THE CONTRACTOR SHALL CLEAN ALL CATCH BASINS PRIOR TO AND AT THE CONCLUSION OF CONSTRUCTION.



**OAKLAND BEACH PLAYGROUND AND SPLASHPAD**  
OAKLAND BEACH AVENUE  
WARWICK, RHODE ISLAND

REVISIONS	Desc.
No.	Date

Designed: DJC  
Drawn: JCW  
Reviewed: DJC  
Scale: 1"=20'  
Project No.: 2100515  
Date: June 2023  
CAD File: EC210051501

Sheet No.

**EROSION AND SEDIMENT CONTROL PLAN**

**EC-1**

4/14/2023: JMW/ELB, CAL/D/SB/VA/CA/T/RS/S/D/W/D/EC/210051501.DWG/EC-1 24X36 20XC

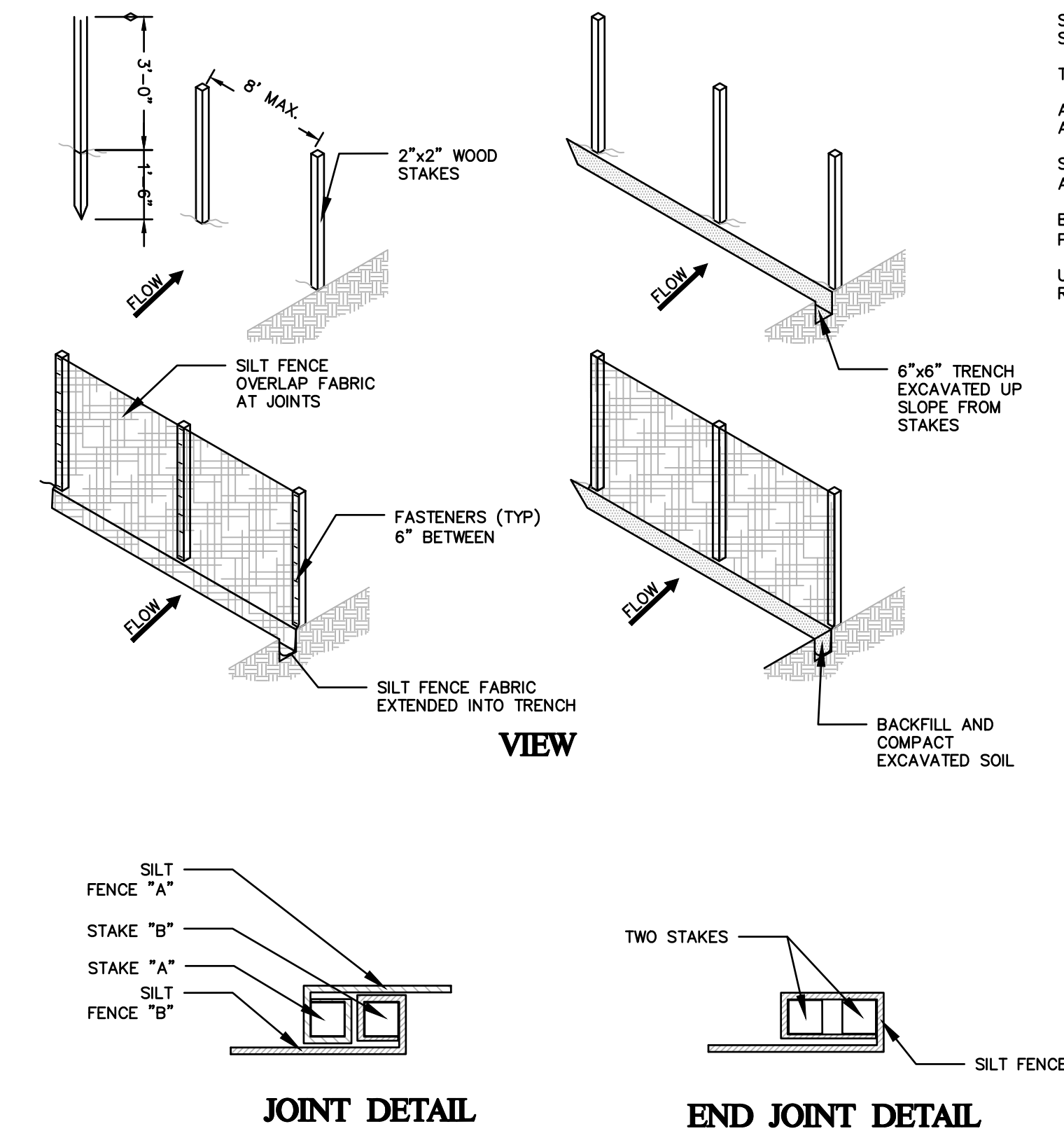
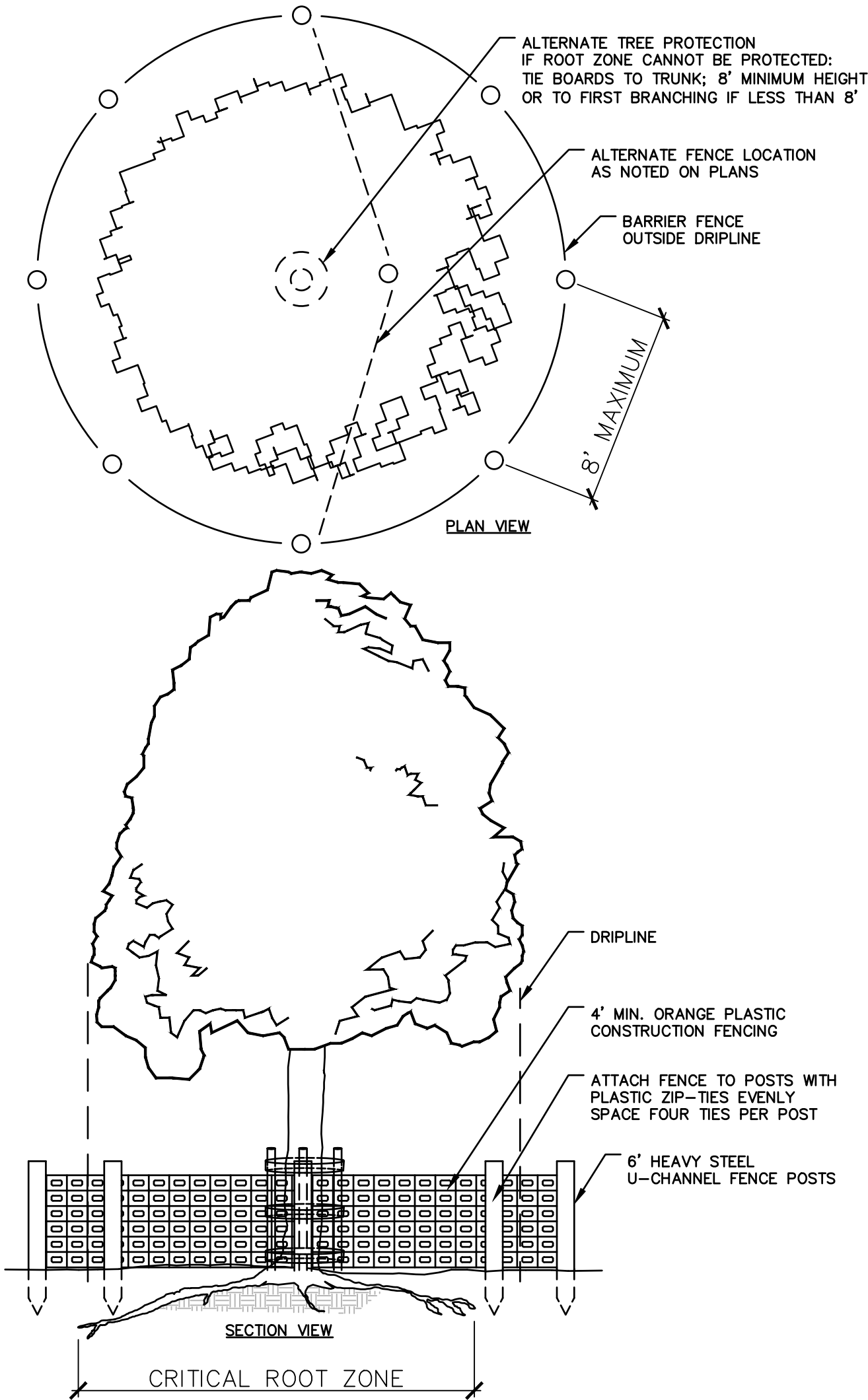
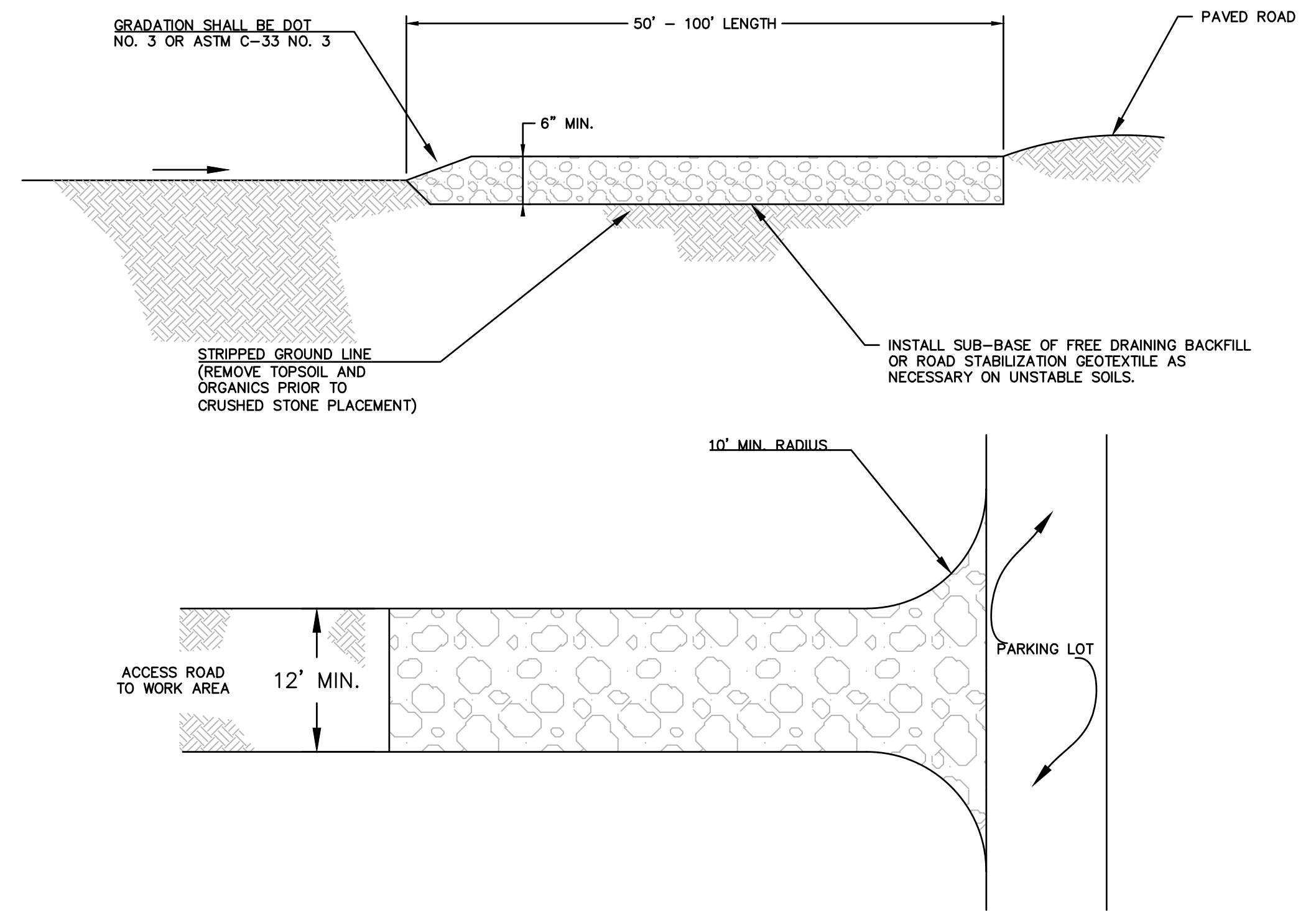
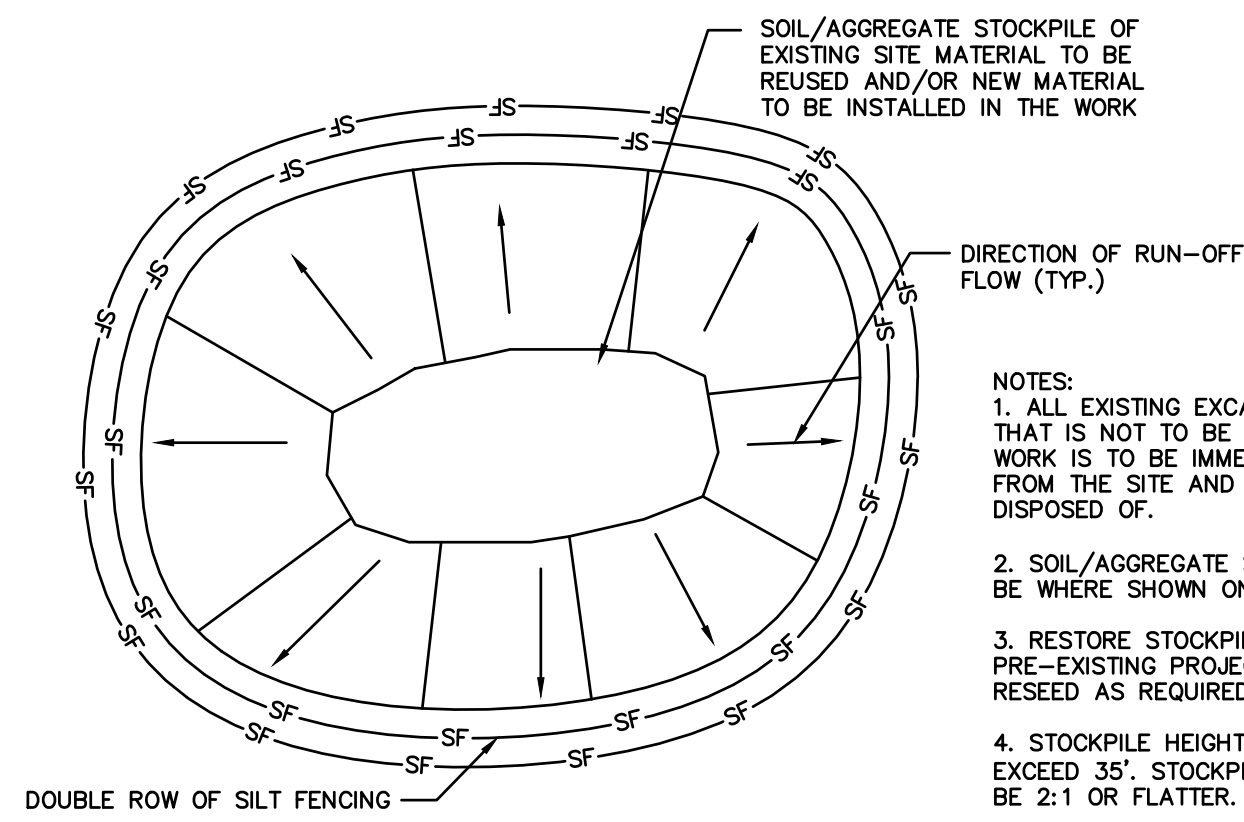
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Sheet ID: #BD210051501; #CZ10051501; #CZ10051502; #ZP10051501; #ZP210051501

**SEDIMENT AND EROSION CONTROL NOTES**

- HAY BALE/STRAW BALE FILTERS WILL BE INSTALLED AT ALL CULVERT OUTLETS ARE APPLICABLE TO THIS PROJECT AND SILTATION FENCE INSTALLED ALONG THE TOE OF ALL CRITICAL CUT AND FILL SLOPES.
- CULVERT DISCHARGE AREAS WILL BE PROTECTED WITH RIP RAP CHANNELS. ENERGY DISSIPATORS WILL BE INSTALLED AS SHOWN ON THESE PLANS AND AS NECESSARY.
- CATCH BASINS WILL BE PROTECTED WITH HAY BALE/STRAW BALE FILTERS, SILT SACKS, SILTATION FENCE, OR OTHER INLET PROTECTION DEVICES PER DETAILS, THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL ALL DISTURBED AREAS ARE THOROUGHLY STABILIZED.
- ALL SEDIMENT AND EROSION CONTROL MEASURES WILL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE LATEST EDITION.
- SEDIMENT AND EROSION CONTROL MEASURES WILL BE INSTALLED PRIOR TO DEMOLITION AND/OR CONSTRUCTION WHENEVER POSSIBLE.
- ALL CONTROL MEASURES WILL BE MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT THE DEMOLITION AND CONSTRUCTION PERIOD UNTIL THE SITE IS DETERMINED TO BE STABILIZED BY THE AUTHORITY HAVING JURISDICTION.
- ADDITIONAL CONTROL MEASURES WILL BE INSTALLED DURING THE CONSTRUCTION PERIOD, IF NECESSARY OR REQUIRED OR AS DIRECTED BY THE CIVIL ENGINEER OR BY THE AUTHORITY HAVING JURISDICTION.
- SEDIMENT REMOVED FROM EROSION CONTROL STRUCTURES WILL BE DISPOSED IN A MANNER WHICH IS CONSISTENT WITH THE INTENT AND REQUIREMENTS OF THE SEDIMENT AND EROSION CONTROL PLANS, NOTES, AND DETAILS.
- CONTRACTOR IS ASSIGNED THE RESPONSIBILITY FOR IMPLEMENTING THIS SEDIMENT AND EROSION CONTROL PLAN. THIS RESPONSIBILITY INCLUDES THE INSTALLATION AND MAINTENANCE OF CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN, NOTIFICATION OF THE MUNICIPALITY AND/OR COUNTY SOILS CONSERVATION DISTRICT AND/OR INLAND WETLANDS COMMISSION OFFICE OR AUTHORITY HAVING JURISDICTION OF ANY TRANSFER OF THIS RESPONSIBILITY AND FOR CONVEYING A COPY OF THE SEDIMENT AND EROSION CONTROL PLAN IF THE TITLE TO THE LAND IS TRANSFERRED.
- THE SEDIMENT AND EROSION CONTROL PLAN IS ONLY INTENDED TO DESCRIBE THE SEDIMENT AND EROSION CONTROL TREATMENT FOR THIS SITE. SEE SEDIMENT AND EROSION CONTROL DETAILS AND CONSTRUCTION SEQUENCE. REFER TO SITE PLAN FOR GENERAL INFORMATION AND OTHER CONTRACT PLANS FOR APPROPRIATE INFORMATION.
- CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING THIS SEDIMENT AND EROSION CONTROL PLAN, AND CAN BE REACHED AT TBD. THIS RESPONSIBILITY INCLUDES THE PROPER INSTALLATION AND MAINTENANCE OF SEDIMENT AND EROSION CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED WITH CONSTRUCTION ON THE SITE OF THE REQUIREMENTS AND OBJECTIVES OF THIS PLAN, INFORMING THE AUTHORITY HAVING JURISDICTION OR COUNTY SOILS CONSERVATION DISTRICT OR INLAND WETLANDS AGENCY OF ANY TRANSFER OF THIS RESPONSIBILITY, AND FOR CONVEYING A COPY OF THE SEDIMENT & EROSION CONTROL PLAN IF THE TITLE TO THE LAND IS TRANSFERRED.
- AN EROSION CONTROL BOND MAY BE REQUIRED TO BE POSTED WITH CITY TO ENSURE IMPLEMENTATION OF THE SEDIMENT AND EROSION CONTROL MEASURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE POSTING OF THIS BOND AND FOR INQUIRIES TO THE CITY FOR INFORMATION ON THE METHOD, TYPE AND AMOUNT OF THE BOND POSTING UNLESS OTHERWISE DIRECTED BY THE OWNER.
- VISUAL SITE INSPECTIONS SHALL BE CONDUCTED WEEKLY, AND AFTER EACH MEASURABLE PRECIPITATION EVENT OF 0.25 INCHES OR GREATER BY QUALIFIED PERSONNEL, TRAINED AND EXPERIENCED IN SEDIMENT AND EROSION CONTROL, TO ASCERTAIN THAT THE SEDIMENT AND EROSION CONTROL (E&S) BMPs ARE OPERATIONAL AND EFFECTIVE IN PREVENTING POLLUTION. A WRITTEN REPORT OF EACH INSPECTION SHALL BE KEPT, AND INCLUDE:
  - A SUMMARY OF THE SITE CONDITIONS, E&S BMPs, AND COMPLIANCE, AND
  - THE DATE, TIME, AND NAME OF THE PERSON CONDUCTING THE INSPECTION
  - TURBIDITY TESTING AS REQUIRED BY THE GENERAL PERMIT (NPDES)
- THE CONTRACTOR SHALL CONSTRUCT ALL SEDIMENT AND EROSION CONTROLS IN ACCORDANCE WITH STATE AND FEDERAL GUIDELINES, WITH THE CONTRACT DOCUMENTS, AND AS DIRECTED BY THE MUNICIPALITY AND/OR COUNTY SOILS CONSERVATION DISTRICT AND/OR INLAND WETLANDS COMMISSION. THE CONTRACTOR SHALL KEEP A COPY OF THE GUIDELINES ON-SITE FOR REFERENCE DURING CONSTRUCTION.
- ADDITIONAL AND/OR ALTERNATIVE SEDIMENT AND EROSION CONTROL MEASURES MAY BE INSTALLED DURING THE CONSTRUCTION PERIOD IF FOUND NECESSARY BY THE CONTRACTOR, OWNER, SITE ENGINEER, MUNICIPALITY AND/OR COUNTY SOILS CONSERVATION DISTRICT AND/OR INLAND WETLANDS COMMISSION, OR GOVERNING AGENCIES. THE CONTRACTOR SHALL CONTACT THE OWNER AND APPROPRIATE GOVERNING AGENCIES FOR APPROVAL IF ALTERNATIVE CONTROLS OTHER THAN THOSE SHOWN ON THE PLANS ARE PROPOSED.
- THE CONTRACTOR SHALL INSPECT ALL SEDIMENT AND EROSION CONTROLS BEFORE AND AFTER EACH STORM (0.25 INCHES OR GREATER RAINFALL), OR AT LEAST WEEKLY, TO VERIFY THAT THE CONTROLS ARE OPERATING PROPERLY AND MAKE REPAIRS WHERE NECESSARY.
- THE CONTRACTOR SHALL KEEP A SUPPLY OF SEDIMENT AND EROSION CONTROL MATERIAL (HAY BALES, SILT FENCE, JUTE MESH, RIP RAP, ETC.) ON-SITE FOR MAINTENANCE AND EMERGENCY REPAIRS.
- PROTECT EXISTING TREES THAT ARE TO BE SAVED BY FENCING AT THE DRIP LINE OR AS SHOWN WITH SNOW FENCE, ORANGE SAFETY FENCE, OR EQUIVALENT FENCING. ANY LIMB TRIMMING SHOULD BE DONE BEFORE CONSTRUCTION BEGINS IN THAT AREA; FENCING SHALL BE MAINTAINED AND REPAIRED DURING CONSTRUCTION.
- INSTALL PERIMETER SEDIMENT AND EROSION CONTROLS PRIOR TO CLEARING OR CONSTRUCTION. ALL CONSTRUCTION SHALL BE CONTAINED WITHIN THE LIMIT OF DISTURBANCE, WHICH SHALL BE MARKED WITH SILT FENCE, SAFETY FENCE, HAY BALES, RIBBONS, OR OTHER MEANS PRIOR TO CLEARING. CONSTRUCTION ACTIVITY SHALL REMAIN ON THE UPHILL SIDE OF THE SILT FENCE UNLESS WORK IS SPECIFICALLY CALLED FOR ON THE DOWNHILL SIDE OF THE FENCE.
- STONE CONSTRUCTION ENTRANCE ANTI-TRACKING PADS SHALL BE INSTALLED AT START OF CONSTRUCTION AND MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION. THE LOCATION OF THE TRACKING PADS MAY CHANGE AS VARIOUS PHASES OF CONSTRUCTION ARE COMPLETED.
- TOPSOIL SHALL BE STRIPPED AND STOCKPILED FOR USE IN FINAL LANDSCAPING. ALL EARTH STOCKPILES SHALL HAVE HAY BALES OR SILT FENCE AROUND THE LIMIT OF PILE. PILES SHALL BE TEMPORARILY SEEDED IF PILE IS TO REMAIN IN PLACE FOR MORE THAN ONE (1) MONTH.
- MINIMIZE LAND DISTURBANCES. SEED AND MULCH DISTURBED AREAS WITH TEMPORARY MIX AS SOON AS PRACTICABLE (ONE WEEK MAXIMUM UNSTABILIZED PERIOD) USING PERENNIAL RYEGRASS AT 40 LBS PER ACRE. MULCH ALL CUT AND FILL SLOPES AND SWALES WITH LOOSE HAY AT A RATE OF 2 TONS PER ACRE. IF NECESSARY, REPLACE LOOSE HAY ON SLOPES WITH EROSION CONTROL BLANKETS OR JUTE CLOTH. MODERATELY GRADED AREAS, ISLANDS, AND TEMPORARY CONSTRUCTION STAGING AREAS MAY BE HYDROSEEDED WITH TACKLIFIER.
- MAINTAIN EXISTING PAVED AREAS FOR CONSTRUCTION STAGING FOR AS LONG AS POSSIBLE.
- SILT FENCE AND OTHER SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH CONTRACT DRAWINGS AND MANUFACTURER'S RECOMMENDATIONS PRIOR TO WORK IN ANY UPLAND AREAS.
- INSTALL SILT FENCE ACCORDING TO MANUFACTURER'S INSTRUCTION, PARTICULARLY, BURY LOWER EDGE OF FABRIC INTO GROUND. SILT FENCE SHALL BE TENCATE ENVIROFENCE, PROPEX GEOTEX OR EQUIVALENT APPROVED BY THE CIVIL ENGINEER. FILTER FABRIC USED SHALL BE TENCATE 140N OR 170N, OR APPROVED EQUIVALENT. SEE SPECIFICATIONS FOR FURTHER INFORMATION.
- WHERE INDICATED ON SEDIMENT AND EROSION CONTROL PLANS USE NEW HAY/STRAW BALES AND REPLACE THEM WHENEVER THEIR CONDITION DETERIORATES BEYOND REASONABLE USABILITY. STAKE BALES SECURELY INTO GROUND AND BUTT TIGHTLY TOGETHER TO PREVENT UNDERCUTTING AND BYPASSING.
- INSTALL CONCRETE WASH PITS AND DEWATERING PITS AS SHOWN AND AS NECESSARY DURING VARIOUS PHASES OF CONSTRUCTION TO CONTROL RUNOFF UNTIL UPHILL AREAS ARE DETERMINED TO BE STABILIZED BY THE AUTHORITY HAVING JURISDICTION. LOCATION OF TEMPORARY SEDIMENT BASINS WILL REQUIRE REVIEW AND APPROVAL BY THE CIVIL ENGINEER AND AUTHORITY HAVING JURISDICTION.
- DIRECT ALL DEWATERING PUMP DISCHARGE TO A SEDIMENT CONTROL DEVICE SUCH AS TEMPORARY PITS, SEDIMENT TRAP, SEDIMENT BASINS OR GRASS FILTERS WITHIN THE APPROVED LIMIT OF DISTURBANCE. DISCHARGE TO STORM DRAINAGE SYSTEM OR SURFACE WATERS FROM SEDIMENT CONTROLS SHALL BE CLEAR.
- BLOCK END OF STORM SEWERS IN EXPOSED TRENCHES WITH BOARDS AND SANDBAGS AT THE END OF EACH WORKING DAY WHEN RAIN IS EXPECTED.
- SWEEP AFFECTED PORTIONS OF OFF SITE ROADS ONE OR MORE TIMES A DAY (OR LESS FREQUENTLY IF TRACKING IS NOT A PROBLEM) DURING CONSTRUCTION. OTHER DUST CONTROL MEASURES TO BE USED AS NECESSARY INCLUDE WATERING DOWN DISTURBED AREAS, USING CALCIUM CHLORIDE, AND COVERING LOADS ON DUMP TRUCKS.
- PERIODICALLY CHECK ACCUMULATED SEDIMENT LEVELS IN THE SEDIMENT BASINS AND SEDIMENT TRAPS DURING CONSTRUCTION AND CLEAN ACCUMULATED SILT WHEN NECESSARY OR WHEN ONE FOOT OF SEDIMENT HAS ACCUMULATED OR PER SPECIFIC CLEANOUT MARKER ELEVATION. CLEAN ACCUMULATED SEDIMENT FROM CATCH BASIN SUMP AS NECESSARY AND AS DIRECTED BY THE CIVIL ENGINEER OR OWNER'S CONSTRUCTION REPRESENTATIVE. REMOVE ACCUMULATED SEDIMENT FROM BEHIND HAY/STRAW BALES AND SILT FENCE WHEN LEVEL REACHES HALF THE HEIGHT OF THE BALE OR ONE FOOT AT SILT FENCE. DISPOSE OF SEDIMENT LEGALLY EITHER ON OR OFF SITE.
- IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION.
- ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE THROUGH A SEDIMENT CONTROL BMP, SUCH AS A PUMPED WATER FILTER BAG OR EQUIVALENT SEDIMENT REMOVAL FACILITY, OVER UNDISTURBED VEGETATED AREAS.
- ALL EXCAVATED MATERIAL SHALL BE PLACED ON THE HIGH SIDE OF UTILITY AND STORM PIPE TRENCHES SO AS TO ALLOW THE TRENCH TO INTERCEPT ALL SILT LAND RUNOFF.
- CONTRACTOR SHALL ONLY EXCAVATE AS MUCH UTILITY AND STORM PIPE TRENCH WORK AS CAN BE COMPLETED, BACKFILLED AND STABILIZED IN ONE DAY SO AS TO LIMIT THE AMOUNT OF OPEN, DISTURBED TRENCHING.

- ANY STOCKPILES OF STRIPPED MATERIALS ARE TO BE PERIODICALLY SPRAYED WITH WATER OR A CRUSTING AGENT TO STABILIZE POTENTIALLY WIND-BLOWN MATERIAL. HAUL ROADS BOTH INTO AND AROUND THE SITE ARE TO BE SPRAYED AS NEEDED TO SUPPRESS DUST. TRUCKS HAULING IMPORT FILL MATERIAL ARE TO BE TARPED TO AID IN THE CONTROL OF AIRBORNE DUST. DURING HIGH WIND EVENTS (20 TO 30 MPH SUSTAINED) CONSTRUCTION ACTIVITY SHALL BE LIMITED OR CEASED IF DUST CANNOT BE CONTROLLED BY WETTING.
- AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM OF 70% UNIFORM PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING OR OTHER MOVEMENTS UNLESS OTHERWISE DETERMINED BY THE AUTHORITY HAVING JURISDICTION.
- MAINTAIN ALL PERMANENT AND TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD. UPON COMPLETION OF WORK SWEEP PARKING LOT AND REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROLS WHEN AUTHORIZED BY AUTHORITY HAVING JURISDICTION. FILE NOT (NOTICE OF TERMINATION) WITH AUTHORITY HAVING JURISDICTION RESPONSIBLE FOR REGULATING STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES PER NPDES.



INSPECTION SCHEDULE SHALL COMPLY WITH THE 2008 EPA CONSTRUCTION GENERAL PERMIT

MAINTENANCE SHALL OCCUR WHEN NECESSARY AND PER SEDIMENT AND EROSION CONTROL NOTES. SILT FENCE SHALL BE REPLACED EVERY 6 MONTHS AND STACKS SHALL BE INSPECTED TO ENSURE STRUCTURAL INTEGRITY. SILT FENCE SHALL BE INSPECTED WEEKLY AND ALL MAINTENANCE ISSUES SHALL BE CORRECT AT THAT TIME.

REV.	NO.	DATE	DESC.

Designed: DJC  
Drawn: JCW  
Reviewed: DJC  
Scale: NONE  
Project No.: 2100515  
Date: June 2023  
CAD File: EC210051501  
Title: **EROSION AND SEDIMENT CONTROL NOTES & DETAILS**  
Sheet No.:

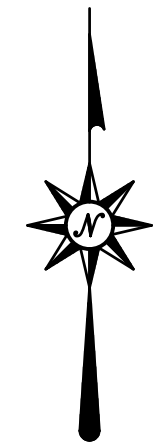
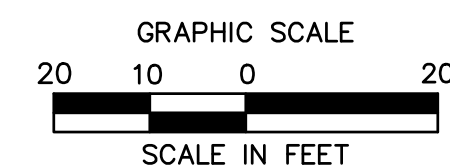
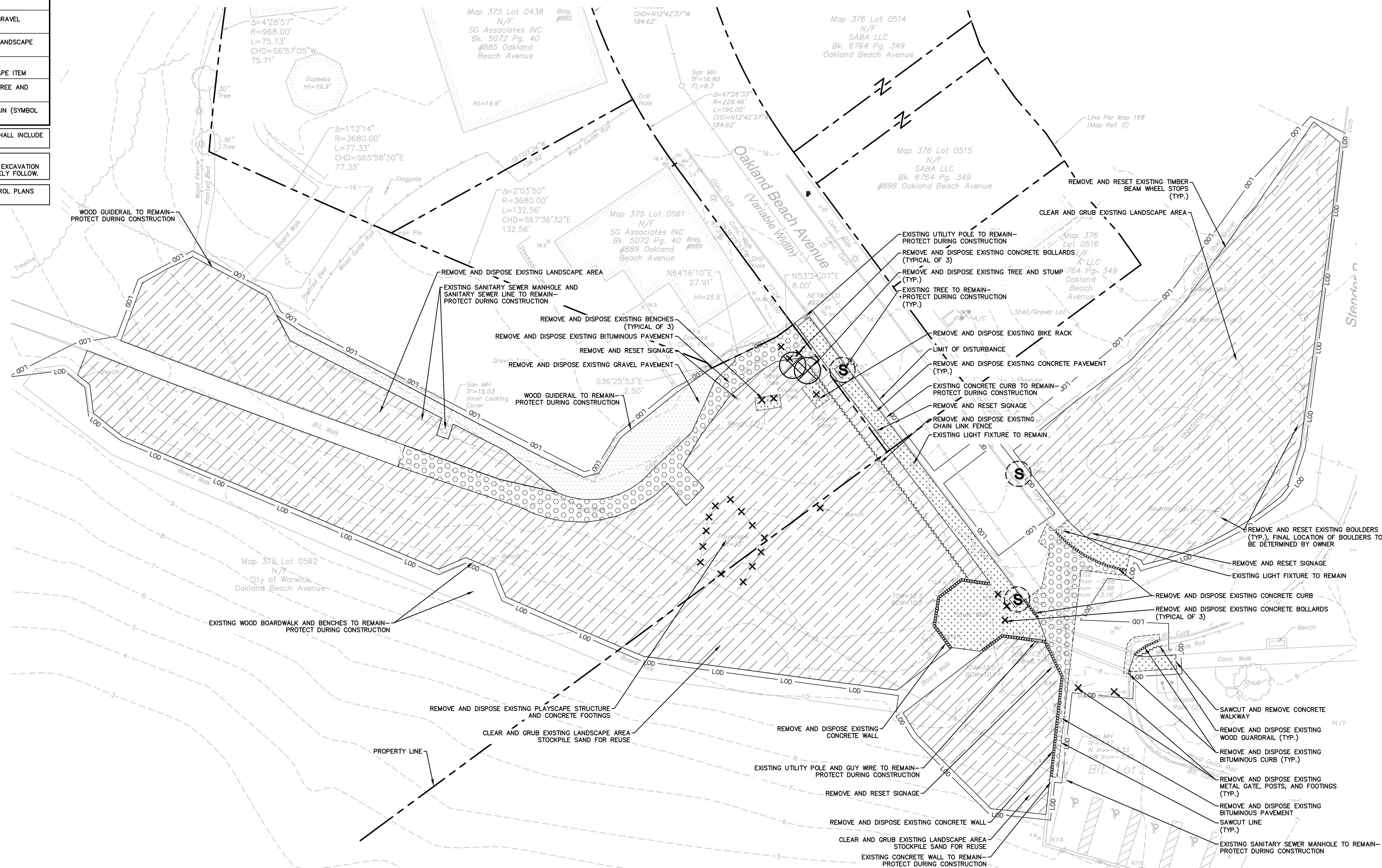
# SITE DEMOLITION LEGEND

SYMBOL	NAME
--- LOD ---	LIMIT OF DISTURBANCE/CONTRACT LIMIT LINE
-----	PROPERTY LINE
- - - - -	SAWCUT LINE
-----	REMOVE AND DISPOSE EXISTING CONCRETE CURB AND WALLS
-----	REMOVE AND DISPOSE EXISTING FENCES AND GUARDRAILS
-----	REMOVE AND DISPOSE EXISTING CONCRETE PAVEMENT
-----	REMOVE AND DISPOSE EXISTING BITUMINOUS PAVEMENT
-----	REMOVE AND DISPOSE EXISTING GRAVEL PAVEMENT
-----	REMOVE AND DISPOSE EXISTING LANDSCAPE AREA
X	REMOVE AND DISPOSE EXISTING STRUCTURE/FURNISHING/LANDSCAPE ITEM
⊗	REMOVE AND DISPOSE EXISTING TREE AND STUMP (SYMBOL NOT TO SCALE)
⊙	PROTECT EXISTING TREE TO REMAIN (SYMBOL NOT TO SCALE)

REMOVAL AND DISPOSAL OF STRUCTURES AND FURNISHINGS SHALL INCLUDE FOUNDATION UNLESS OTHERWISE NOTED

**GRUBBING NOTE**  
GRUBBING ACTIVITIES TO OCCUR IN STAGES AND ONLY WHERE EXCAVATION AND SUBSEQUENT STABILIZATION MEASURES ARE TO IMMEDIATELY FOLLOW.

REFER TO EC SERIES FOR EROSION AND SEDIMENTATION CONTROL PLANS AND NOTES.



# OAKLAND BEACH PLAYGROUND AND SPLASHPAD

## OAKLAND BEACH AVENUE

### WARWICK, RHODE ISLAND

REVISIONS

No.	Date	Desc.

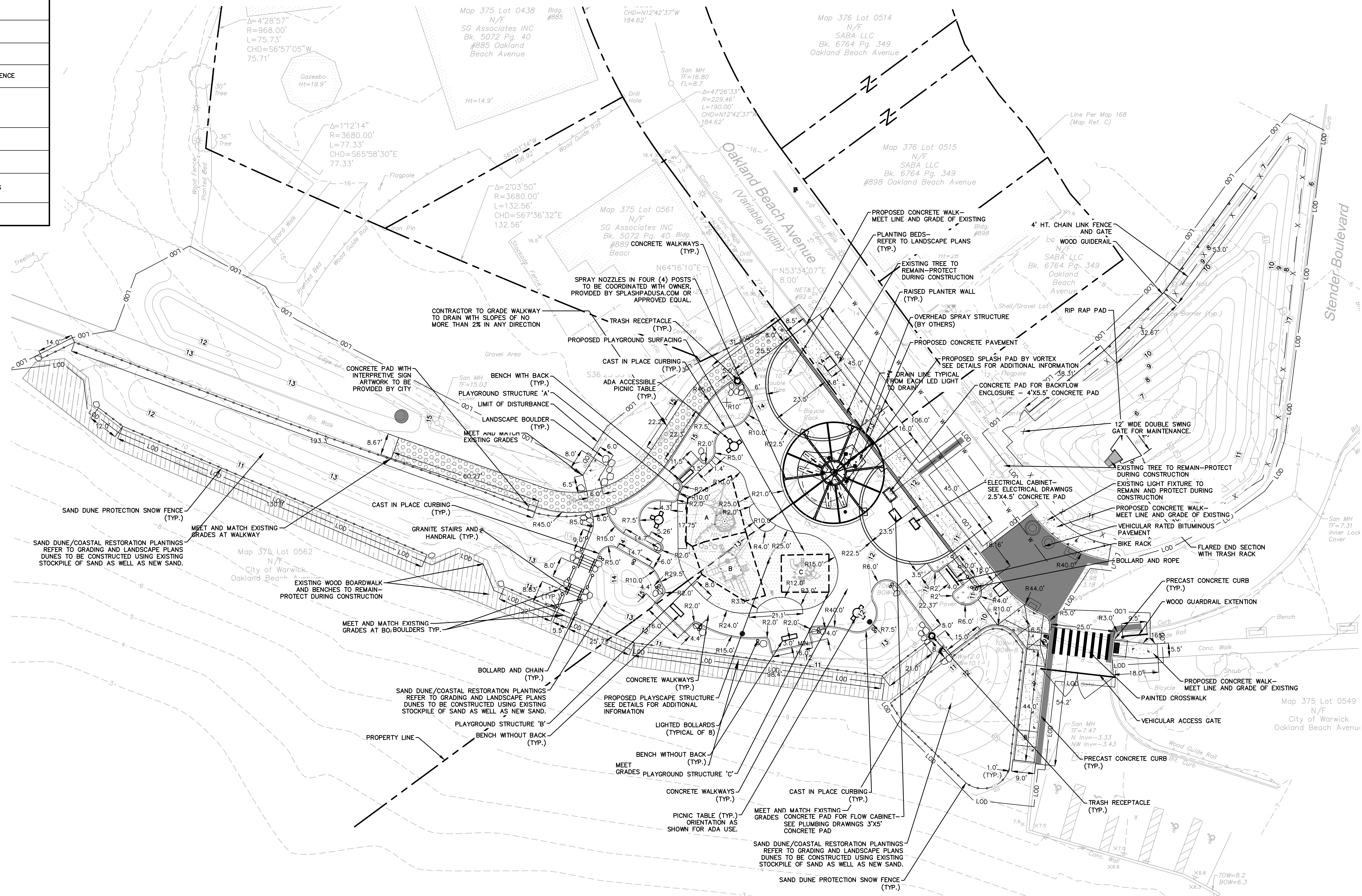
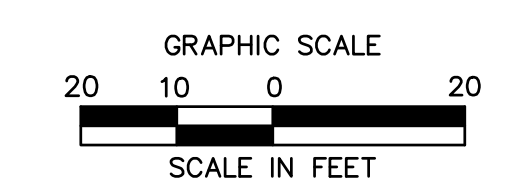
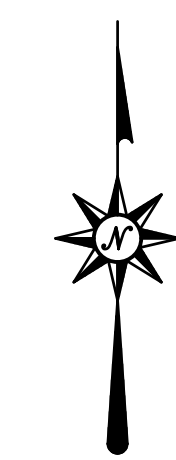
Designed: DJC  
Drawn: JCW  
Reviewed: DJC  
Scale: 1"=20'  
Project No.: 2100515  
Date: June 2023  
CAD File: DM210051501  
Title: **SITE DEMOLITION PLAN**  
Sheet No.

DM-1

4/14/2023, JPM/ELB, C:\D:\3821\VA\210051501\DWG\DM-1.dwg, DM-1, 2:00:23 PM

# MATERIALS LEGEND

SYMBOL	NAME
---	LIMIT OF DISTURBANCE/CONTRACT LIMIT LINE
---	PROPERTY LINE
[Pattern]	VEHICULAR RATED ASPHALT PAVEMENT
[Pattern]	ASPHALT WALKWAY
[Pattern]	PROPOSED CONCRETE WALKWAY
[Pattern]	PROPOSED PLAYGROUND SURFACING
[Pattern]	EXISTING BOARDWALK TO REMAIN- PROTECT DURING CONSTRUCTION
[Pattern]	RAISED PLANTER WALLS
o	LIGHTED BOLLARDS
o---o	BOLLARD AND CHAIN
---	TEMPORARY SNOW PROTECTION FENCE
[Symbol]	BENCHES AND TABLES
o	TRASH RECEPTACLE
---	BIKE RACK
[Symbol]	PROPOSED LANDSCAPE BOULDERS
X	CHAIN LINK FENCE



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## OAKLAND BEACH PLAYGROUND AND SPLASHPAD OAKLAND BEACH AVENUE WARWICK, RHODE ISLAND

REV/NO.	DATE	DESC.

Designed: D.J.C.  
Drawn: J.C.W.  
Reviewed: D.J.C.  
Scale: 1"=20'  
Project No.: 2100515  
Date: June 2023  
CAD File: MAT210051501

### MATERIALS AND LAYOUT PLAN

Sheet No.

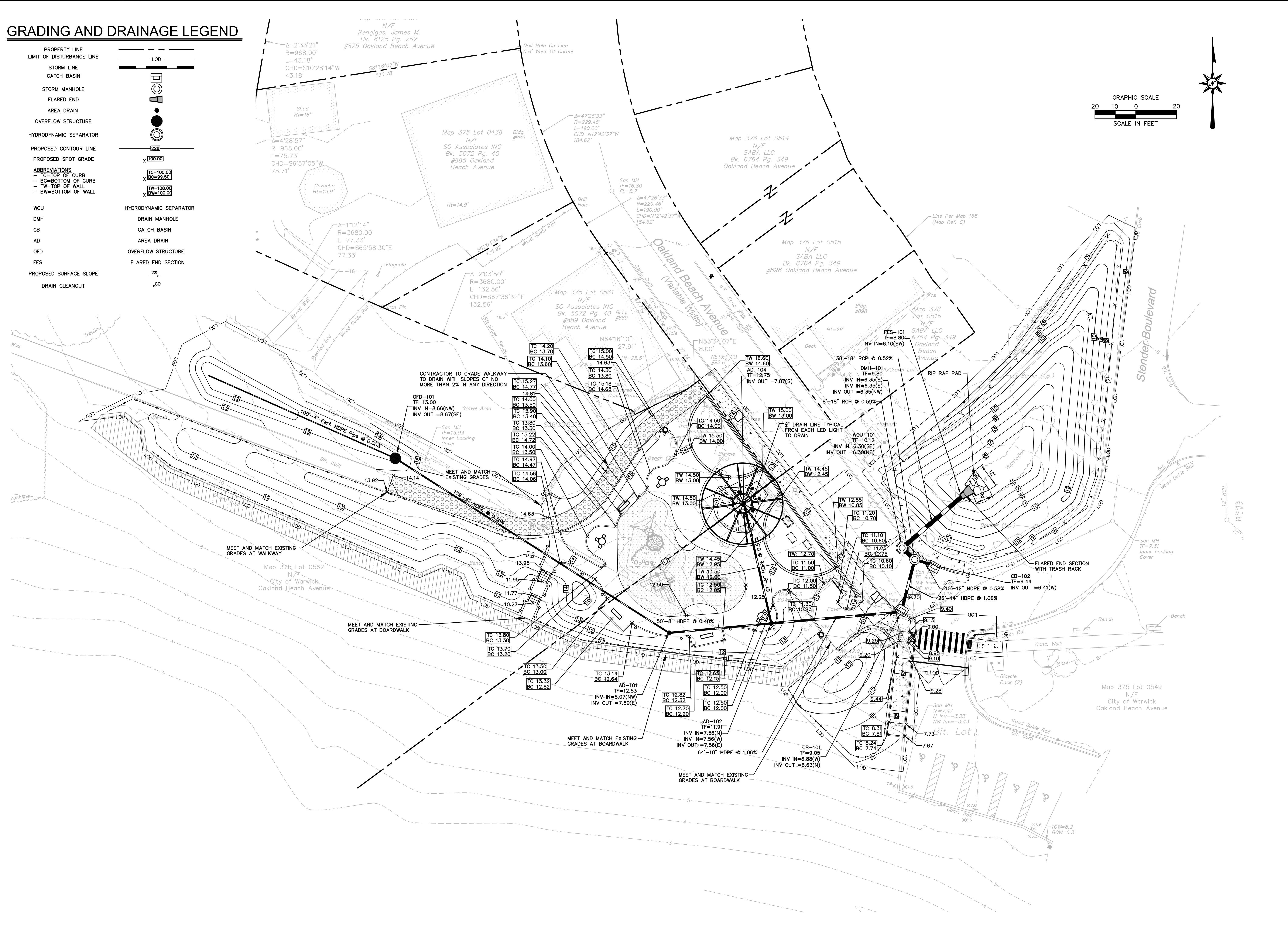
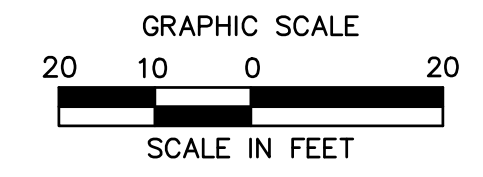
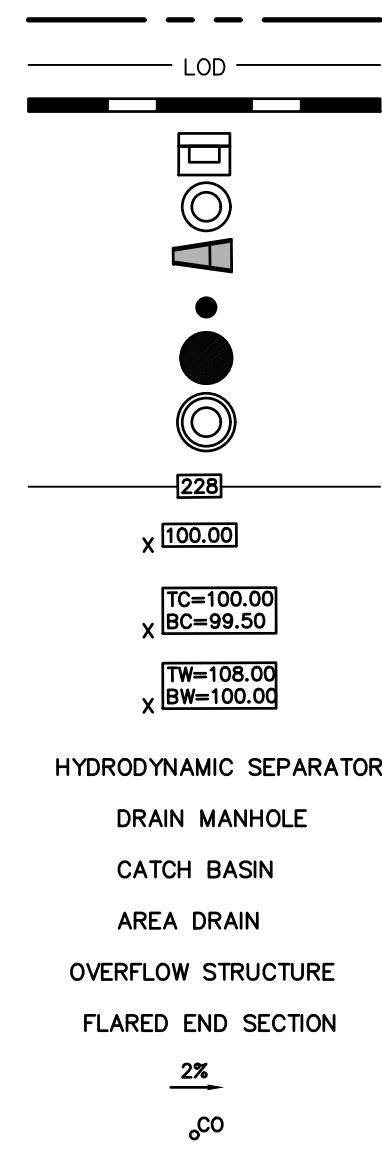
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# GRADING AND DRAINAGE LEGEND

- PROPERTY LINE
- LIMIT OF DISTURBANCE LINE
- STORM LINE
- CATCH BASIN
- STORM MANHOLE
- FLARED END
- AREA DRAIN
- OVERFLOW STRUCTURE
- HYDRODYNAMIC SEPARATOR
- PROPOSED CONTOUR LINE
- PROPOSED SPOT GRADE
- ABBREVIATIONS
- TC=TOP OF CURB
- BC=BOTTOM OF CURB
- TW=TOP OF WALL
- BW=BOTTOM OF WALL
- WQU
- DMH
- CB
- AD
- OFD
- FES
- PROPOSED SURFACE SLOPE
- DRAIN CLEANOUT



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## OAKLAND BEACH PLAYGROUND AND SPLASHPAD OAKLAND BEACH AVENUE WARWICK, RHODE ISLAND

REV. No.	Date	Desc.

Designed E.A.E.  
Drawn E.A.E.  
Reviewed  
Scale 1"=20'  
Project No. 2100515  
Date June 2023  
CAD File: GD210051501

Title  
**GRADING AND DRAINAGE PLAN**

Sheet No.  
**GD-1**



# LANDSCAPE LEGEND

SYMBOL	NAME
---	LIMIT OF DISTURBANCE/CONTRACT LIMIT LINE
---	PROPERTY LINE
[Tree Symbols]	PROPOSED ORNAMENTAL FLOWERING TREES
[Grass Symbols]	PROPOSED SHRUBS/ ORNAMENTAL GRASSES
[Hatched Box]	PROPOSED PERENNIALS/ GROUNDCOVER
[Plant Symbols]	PROPOSED DUNE PLANTINGS
[Seed Mix Symbols]	DETENTION BASIN SEED MIX
[Lawn Symbol]	LAWN SEED MIX

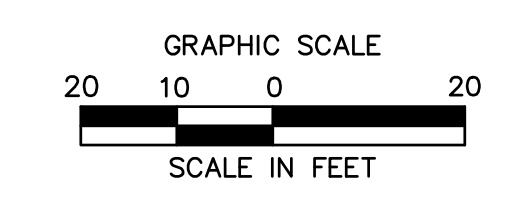
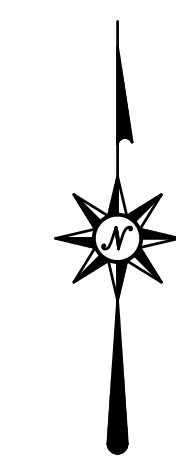
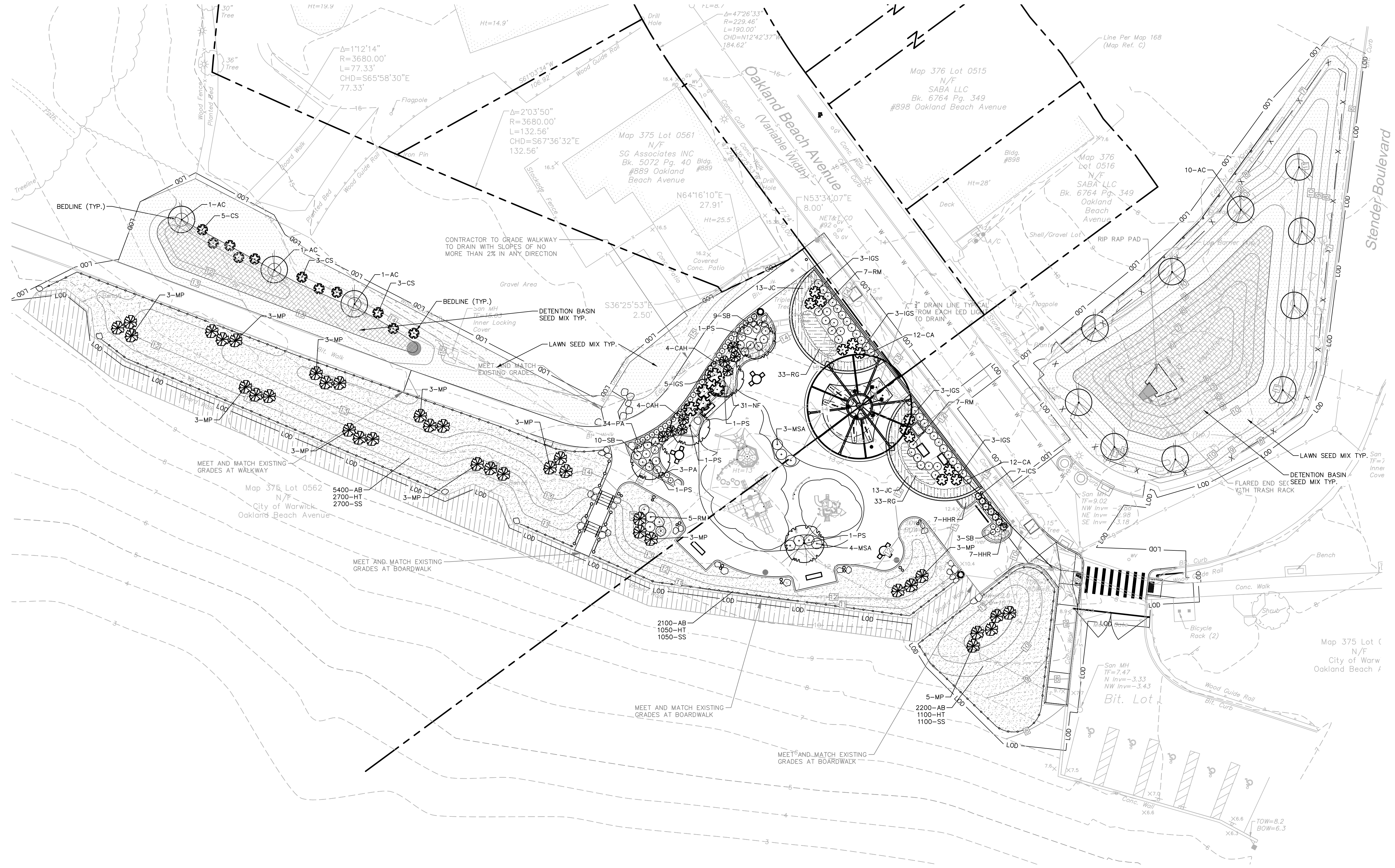
### LANDSCAPE PLANT SCHEDULE

TREES						
KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AC	13	Amelanchier canadensis	SHADBLOW	B&B	8"-10" HT.	MULTI-STEM
PS	5	Prunus sargentii 'Columnaris'	COLUMNAR FLOWERING CHERRY	B&B	2"-2.5" CAL.	6' BRANCHING HEIGHT
SHRUBS						
KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
CAH	8	Clethra alnifolia 'Hummingbird'	HUMMINGBIRD SUMMER SWEET	CONT.	3 GAL.	PLANT 3' O.C.
CS	11	Cornus sericea 'Arctic Fire'	ARCTIC FIRE DOGWOOD	CONT.	5 GAL.	PLANT 3' O.C.
ICS	10	Ilex crenata 'Sky Pencil'	SKY PENCIL HOLLY	CONT.	7 GAL.	PLANT 2' O.C.
IGS	14	Ilex glabra 'Shamrock'	SHAMROCK INKBERRY	CONT.	24-30"	PLANT 3' O.C.
RM	14	Rosa 'Meigalpio'	RED DRIFT ROSE	CONT.	3 GAL.	PLANT 3' O.C.
SB	22	Spiraea x bumalda 'Goldflame'	GOLDFLAME SPIREA	CONT.	18-24"	PLANT 3' O.C.
PERENNIALS/GROUNDCOVER/ORNAMENTAL GRASS/VINES						
KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
CA	24	Calamagrostis x acutiflora 'Karl Foerster'	FORESTER'S FEATHER REED GRASS	CONT.	1 GAL.	PLANT 36" O.C.
HHR	14	Hemerocallis x 'Happy Returns'	HAPPY RETURNS DWARF DAYLILY	CONT.	1 GAL.	PLANT 24" O.C.

JC	26	Juniperus conferta Blue Pacific'	BLUE PACIFIC SHORE JUNIPER	CONT.	2 GAL.	PLANT 18" O.C.
MSA	7	Miscianthus sinensis 'Adagio'	ADAGIO GRASS	CONT.	3 GAL.	PLANT 4" O.C.
NF	31	Nepeta x faassenii 'Junior Walker'	JUNIOR WALKER'S LOW CATMINT	CONT.	1 GAL.	PLANT 18" O.C.
PA	37	Pennisetum alopecuroides 'Hamelin'	DWARF FOUNTAIN GRASS	CONT.	1 GAL.	PLANT 18" O.C.
RG	66	Rudbeckia goldstrum	BLACK EYED SUSAN	CONT.	1 GAL.	PLANT 18" O.C.

### DUNE PLANTINGS

SHRUBS						
KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
MP	35	Myrica pensylvanica	NORTHERN BAYBERRY	CONT.	7 GAL.	PLANT 6" O.C.
RM	5	Rosa 'Meigalpio'	RED DRIFT ROSE	CONT.	3 GAL.	PLANT 3' O.C.
PERENNIALS/GROUNDCOVER/ORNAMENTAL GRASS/VINES						
KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AB	9700	Ammophila breviflorigata	AMERICAN BEACH GRASS	CONT.	CULMS	2 CULMS PER HOLE 12" O.C.
HT	4850	Hudsonia tomentosa	BEACH HEATHER	CONT.	CULMS	2 CULMS PER HOLE 12" O.C.
SS	4850	Solidago sempervirens	SEASIDE GOLDENROD	CONT.	CULMS	2 CULMS PER HOLE 12" O.C.



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## OAKLAND BEACH PLAYGROUND AND SPLASHPAD

OAKLAND BEACH AVENUE  
WARWICK, RHODE ISLAND

REVISIONS	
No.	Date

Designed: DJC  
Drawn: JCW  
Reviewed: DJC  
Scale: 1"=20'  
Project No.: 2100515  
Date: June 2023  
CAD File: LL210051501

Title: **LANDSCAPE PLAN**

Sheet No.: **LL-1**



ALTERNATE TOP SLAB (SEE NOTES 10 AND 11)

AS REQUIRED  
FRAME AND GRATE/COVER  
ADJUST TO GRADE AS REQUIRED USING RED CLAY BRICK COURSE  
ROUNDER OR SQUARE  
PIPE OPENINGS CAST TO PLAN  
STEPS PER APPROVED PRODUCTS LIST 1'-0" O.C.  
MORTAR ALL JOINTS TOTAL WIDTH OF WALL  
4" MIN. OVERLAP (TYP.)  
1'-0" SEEP HOLE (SEE NOTE 3)

CATCH BASIN DIAMETER (D)	A	B	CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED*
4'-0"	5"	6"	0.12 SQ. IN./LIN. FT.
5'-0"	6"	7"	0.15 SQ. IN./LIN. FT.
6'-0"	7"	8"	0.18 SQ. IN./LIN. FT.

\* FOR LONGITUDINAL (VERTICAL STANDING) REINFORCEMENT REFER TO ASTM C478, ITEM 8.1.2

TYPE "D" TYPE "R" TYPE "F"

NOTES:  
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.  
2. SEE TABLE 1 FOR STEEL REINFORCEMENT REQUIREMENTS.  
3. STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LIN. FT. (BOTH WAYS).  
4. STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.  
5. ONE FOUR MONTHLY BASE SECTION.  
6. ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW-CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS OR PNEUMATIC TOOLS WILL BE ALLOWED.  
7. CORBEL MADE OF RED CLAY BRICK WILL BE PERMITTED FOR THE "CONE SECTION" OF THE 4'-0" CATCH BASIN ONLY.  
8. FOR CATCH BASIN TYPES "D" AND "F" STEPS MUST BE INSTALLED ON THE CURB SIDE OF THE STRUCTURE.  
9. THE CENTERLINE OF THE OPENING MUST BE WITHIN 2'-0" FROM THE STEPS.  
10. ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED 25 LB/SQ. YD LOADING (SEE STD. 4.7.2).  
11. ALTERNATE TOP SLAB IS ONLY FOR USE WHEN REDUCING SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.  
12. REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
PRECAST 4'-0", 5'-0", OR 6'-0" ROUND CATCH BASIN  
R.I. STANDARD 4.4.0  
JUNE 15, 1998

APRON STONE  
8"x1'-0" SOLID BLOCK PILASTER  
CONCRETE COVER (SEE STD. 4.8.0)  
DRILL AND GROUT #4 DOWEL (TYP.) (SEE STD. 4.4.0)

APRON STONE  
ADJUST TO GRADE USING MORTAR  
JOINT SEALER (PIPE SHALL BE SEALED TO CATCH BASIN ON INSIDE AND OUTSIDE SURFACES)  
PAVEMENT  
4" FRAME AND GRATE (ORDER 4 FLANGE WHEN APRON STONE IS NOT USED)  
8" PLASTER WITH 3/16" GALVANIZED BLOCK TEES @ 8" O.C. VERTICAL  
#4 DOWEL (TYP.)  
SOLID BLOCK  
8'-0" MAX.  
CEMENT MORTAR SLOPED TRANSITION  
4" (TYP.)  
3" COVER (TYP.)  
5" x 9" E.W.  
CONCRETE BASE (PRECAST OPTIONAL)  
(2) #5 x 4'-0" LONG DIAGONAL (TYP.)  
1'-0" x 8" SEEP HOLE

SECTION A-A SECTION B-B

NOTES:  
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.  
2. 1/2" CEMENT MORTAR PLASTER COAT REQUIRED ON ALL INSIDE AND OUTSIDE SURFACES.  
3. ADJUST DOWEL LOCATION BASED ON PIPE CONFIGURATION, AS REQUIRED.  
4. USE 8" WALLS UP TO 6'-0" DEPTH, USE 1'-0" WALLS UP TO 8'-0" DEPTH.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
SOLID BLOCK SHALLOW TYPE "F" SQUARE CATCH BASIN (PIPE COVER 1'-6" TO 3'-0")  
R.I. STANDARD 3.5.0  
JUNE 15, 1998

SECTION A-A END ELEVATION

DIA.	DIMENSIONS							REINFORCEMENT ONE LAYER REINFORCEMENT MIN. AREA OF EACH WAY (SQ. IN./FT.)	
	A	B	C	D	E	R	T		
1'-0"	4"	2'-0"	4'-0"	7/8"	8'-0"	7/8"	2'-0"	8"	0.048
1'-3"	6"	2'-3"	3'-10"	8'-11"	2'-0"	11"	2 1/4"	2	0.054
1'-6"	9"	2'-3"	3'-10"	8'-11"	3'-0"	12"	2 1/2"	2	0.060
2'-0"	8 1/2"	3'-7 1/2"	2'-8"	8'-1 1/2"	4'-0"	1'-2"	3"	3	0.072
2'-6"	1'-0"	4'-6"	1'-7 3/4"	8'-1 3/4"	5'-0"	1'-3"	3 1/2"	3	0.084
3'-0"	1'-3"	5'-3"	2'-10 3/4"	8'-1 3/4"	6'-0"	1'-6"	4"	4	0.096
3'-6"	1'-9"	5'-3"	2'-11"	8'-2"	6'-6"	1'-10"	4 1/2"	4	0.108
4'-0"	2'-0"	6'-0"	2'-2"	8'-2"	7'-0"	1'-10"	5"	5	0.120
4'-6"	2'-3"	6'-0"	2'-11"	8'-4"	7'-6"	2'-0"	5 1/2"	5	0.132
5'-0"	2'-6"	6'-0"	3'-3"	8'-3"	8'-0"	2'-0"	6"	6	0.144

NOTE: SHALL BE IN ACCORDANCE WITH SECTION 701 OF THE R.I. STANDARD SPECIFICATIONS.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
PRECAST CONCRETE FLARED END SECTION  
R.I. STANDARD 2.3.0  
JUNE 15, 1998

CONCRETE SIDEWALK AS PER PLANS PITCH TO DRAIN  
PITCH TO DRAIN  
EDGE OF WALK  
CURB  
18" DUCTILE IRON GRATE H-10 RATED  
TO ACCEPT 18" GRATE  
3"  
1'-0"  
4" - 9"  
ADAPTER  
1'-0"  
HPDE RISER (LENGTH VARIES)  
HPDE PIPE VARIES SEE PLAN  
INVERT ELEVATIONS AND CONFIGURATION AS PER GRADING PLAN  
12" x 12" HPDE TEE  
3" CRUSHED STONE  
CRUSHED STONE TO RING BASIN MIN 1" AROUND BASIN IN LAWN AREAS  
18" INTERLAKEN DUCTILE IRON GRATE BY IRONAGE DESIGNS OR APPROVED EQUAL - FINISH TO BE BAKED ON OIL FINISH  
OVERALL HEIGHT VARIES  
VARIABLE LENGTH  
24"  
3"

**NYLOPLAST-ADS YARD DRAIN BASIN**  
N.T.S.

LIMITS OF TRENCH SECTION.  
EXISTING UTILITY  
NEW PIPE  
UNDISTURBED MATERIAL  
SEE TYP. TRENCH SECTION.  
COMPACTED 3/4" CRUSHED STONE OR TYPE I.E. EXCAVATABLE FLOWABLE FILL AS DIRECTED BY THE ENGINEER, FROM UNDISTURBED EARTH TO MID-DIAMETER OF EXISTING UTILITY  
FRAME AND GRATE SHALL CONFORM TO SECTION M.04 OF THE R.I. STANDARD SPECIFICATIONS  
LIGHT DUTY FRAME AND COVER  
PICK HOLE TYP.

PLAN VIEW SECTION B-B

SECTION PLAN

2'-4"  
2'-1 3/4"  
1 3/8"  
2'-0" MIN.  
2'-10"  
3/4" (MIN.)

EDGE OF TRENCH  
TRENCH WIDTH 2' + I.D.  
SUPPORT AS REQUIRED  
TYPE OW, GP, SW, SP PER UNIFIED SOIL CLASSIFICATION SYSTEM OR AS APPROVED BY SITE ENGINEER COMPACTED TO 90% MAX. DRY DENSITY IN LIFTS (8" TYP.) PER ASTM D-1557 (MODIFIED PROCTOR TEST)  
3/4" CRUSHED STONE TO EDGE OF TRENCH  
1'-0" MIN. FOR PVC  
1/4" O.D.  
4" MIN. - 1'-0" MIN. IN ROCK  
BOTTOM OF TRENCH  
3/4" CRUSHED STONE TO EDGE OF TRENCH  
1'-0" MIN.  
MIN. IN ROCK

**TYPICAL STORM SEWER TRENCH**  
N.T.S.

DRAIN MANHOLE FRAME & COVER  
ADJUST TO GRADE WITH MAX. OF FOUR COURSES OF BRICK  
PRECAST REINFORCED CONCRETE MANHOLE ECCENTRIC CONE  
MINIMUM REINFORCING 0.12 SQ. IN. PER LINEAR FOOT OR AS SPECIFIED  
LIFTING HOLES (TYP.) (FILL WITH MORTAR)  
PRECAST REINFORCED CONCRETE TONGUE AND GROOVE RISERS MANUFACTURED IN 1', 2', 3' & 4' LENGTHS.  
PREFORMED PLASTIC GASKET OR FLEXIBLE WATER TIGHT RUBBER GASKET  
5" WALL  
KNOCKOUTS AS REQUIRED  
3' CONE  
RISER VARIES  
RISER VARIES  
BASE 4" MIN.  
6" MIN.  
2" MIN.  
8" - 2'-0" - 18"  
3" MIN.  
2 1/4" MIN.  
12" (TYP.)  
ALUMINUM STEP  
7" (TYP.)  
4'-0" DIA.

(1, 2) INTEGRATED DUCTILE IRON GRATE TO MATCH BASIN O.D. HEIGHT OF GRATE PER PLANS  
(3) VARIABLE INVERT HEIGHTS AVAILABLE (ACCORDING TO PLANS/TAKE OFF)  
(4) VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE: 4" - 36" FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL, ADS/HANCOR SINGLE WALL), N-12 HP, PVC SEWER (EX: SDR 35), PVC DWV (EX: SCH 40), PVC CSO/C905, CORRUGATED & RIBBED PVC  
(5) ADAPTER ANGLES VARIABLE 0° - 360° ACCORDING TO PLANS  
THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I, CLASS II, OR CLASS III MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.  
4" MIN ON 8" MIN ON 30" & 36"  
(3) VARIABLE SUMP DEPTH ACCORDING TO PLANS 12" MIN. ON 36" & 12" MIN. ON 36" MIN. ON 36" BASED ON MANUFACTURING REQ.)

NOTES:  
1. 8" - 30" DOME GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.  
2. 8" & 10" DOME GRATES FIT ONTO THE DRAIN BASINS WITH THE USE OF A PVC BODY TOP.  
3. DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS.  
4. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL, N-12 HP, & PVC SEWER (4" - 36").  
5. ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS.  
6. 8" - 30" DOME GRATES HAVE NO LOAD RATING.

**PRECAST STORM MANHOLE DETAIL**  
N.T.S.

UTILITY CONFLICT  
N.T.S.

RIP RAP APRON SECTION  
N.T.S.

EXISTING UTILITY  
NEW PIPE  
UNDISTURBED MATERIAL  
FINISH GRADE BEYOND  
RIP RAP STONE PROTECTION  
PER PLANS  
FINISH GRADE BEYOND  
FILTER FABRIC  
6" CRUSHED STONE BEDDING (2" STONE)  
COMPACTED SUBGRADE

SECTION PLAN

4TH FLANGE WHEN ORDERED  
FRAME AND GRATE SHALL CONFORM TO SECTION M.04 OF THE R.I. STANDARD SPECIFICATIONS  
2'-5 1/2"  
2'-9 1/2"  
2'-0" 8"  
2'-0"  
2 1/2"  
4 1/2"

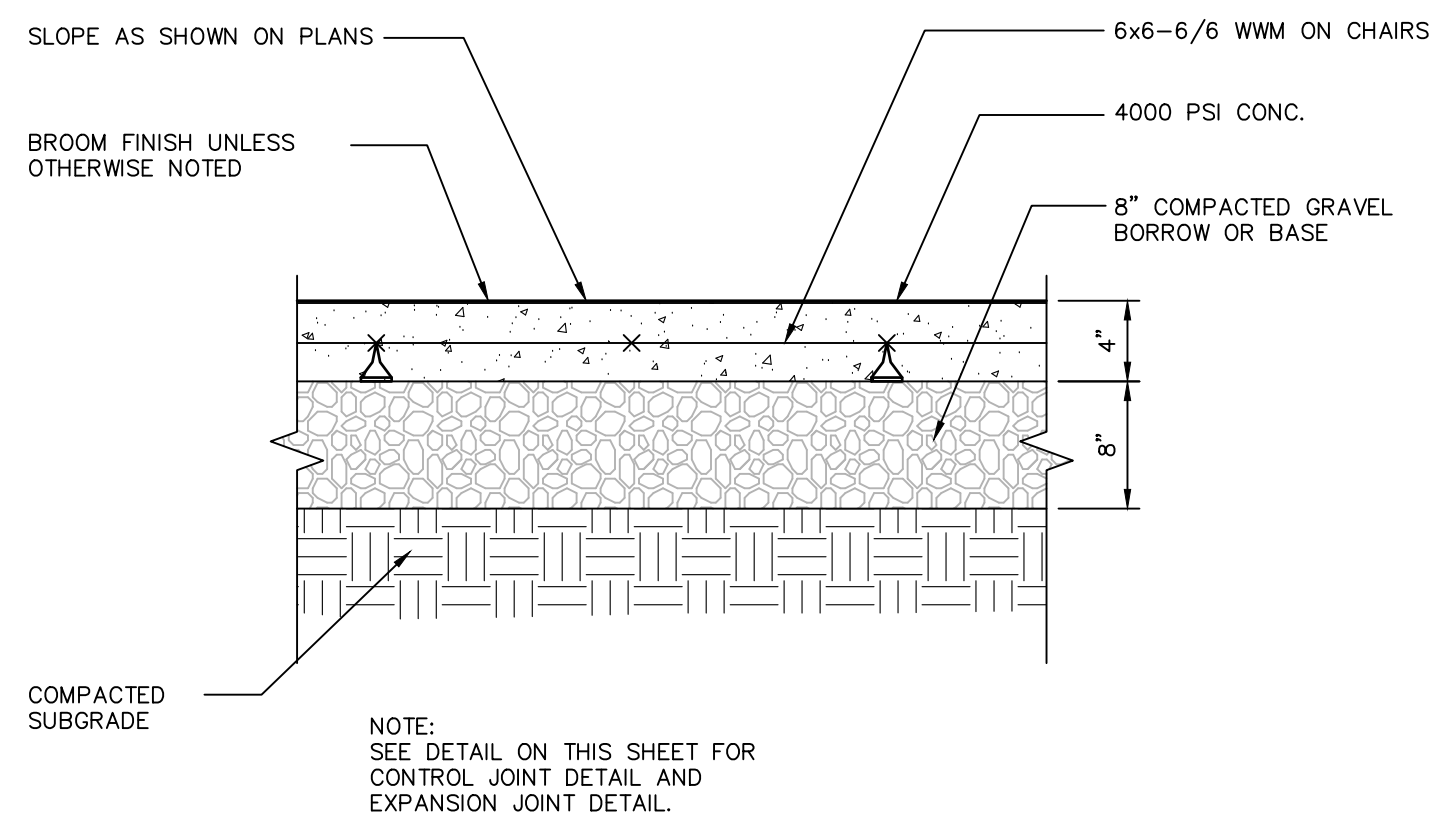
**STANDARD SQUARE MANHOLE FRAME AND GRATE**  
N.T.S.

DRAIN MANHOLE FRAME & COVER  
ADJUST TO GRADE WITH MAX. OF FOUR COURSES OF BRICK  
PRECAST REINFORCED CONCRETE MANHOLE ECCENTRIC CONE  
MINIMUM REINFORCING 0.12 SQ. IN. PER LINEAR FOOT OR AS SPECIFIED  
LIFTING HOLES (TYP.) (FILL WITH MORTAR)  
PRECAST REINFORCED CONCRETE TONGUE AND GROOVE RISERS MANUFACTURED IN 1', 2', 3' & 4' LENGTHS.  
PREFORMED PLASTIC GASKET OR FLEXIBLE WATER TIGHT RUBBER GASKET  
5" WALL  
KNOCKOUTS AS REQUIRED  
3' CONE  
RISER VARIES  
RISER VARIES  
BASE 4" MIN.  
6" MIN.  
2" MIN.  
8" - 2'-0" - 18"  
3" MIN.  
2 1/4" MIN.  
12" (TYP.)  
ALUMINUM STEP  
7" (TYP.)  
4'-0" DIA.

**PRECAST STORM MANHOLE DETAIL**  
N.T.S.

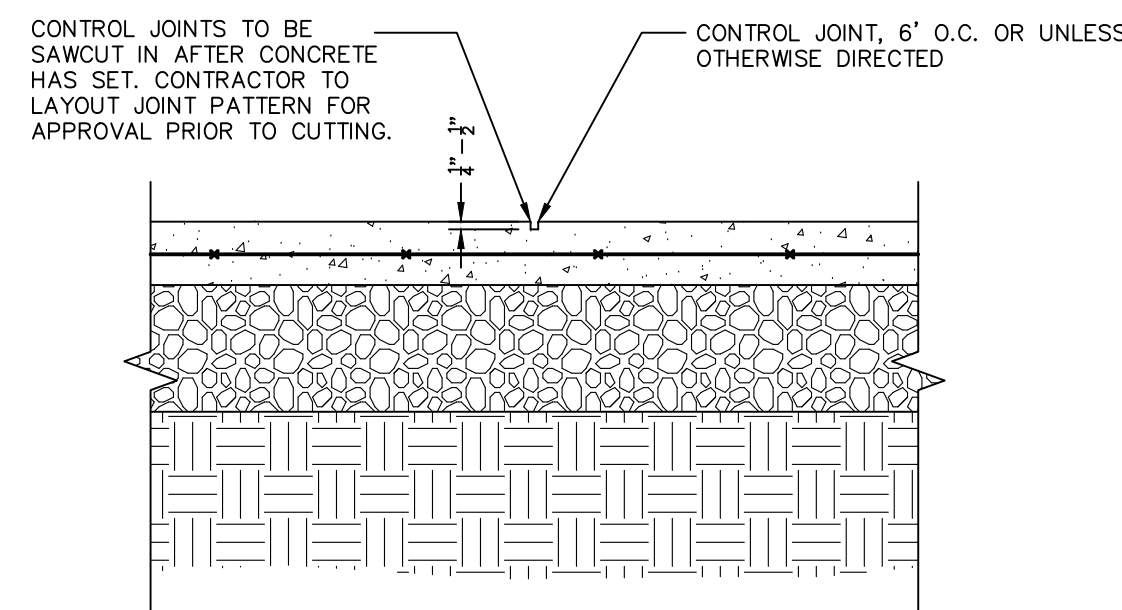
OVERFLOW STRUCTURE  
N.T.S.

CONCRETE SIDEWALK AS PER PLANS PITCH TO DRAIN  
PITCH TO DRAIN  
EDGE OF WALK  
CURB  
18" DUCTILE IRON GRATE H-10 RATED  
TO ACCEPT 18" GRATE  
3"  
1'-0"  
4" - 9"  
ADAPTER  
1'-0"  
HPDE RISER (LENGTH VARIES)  
HPDE PIPE VARIES SEE PLAN  
INVERT ELEVATIONS AND CONFIGURATION AS PER GRADING PLAN  
12" x 12" HPDE TEE  
3" CRUSHED STONE  
CRUSHED STONE TO RING BASIN MIN 1" AROUND BASIN IN LAWN AREAS  
18" INTERLAKEN DUCTILE IRON GRATE BY IRONAGE DESIGNS OR APPROVED EQUAL - FINISH TO BE BAKED ON OIL FINISH  
OVERALL HEIGHT VARIES  
VARIABLE LENGTH  
24"  
3"



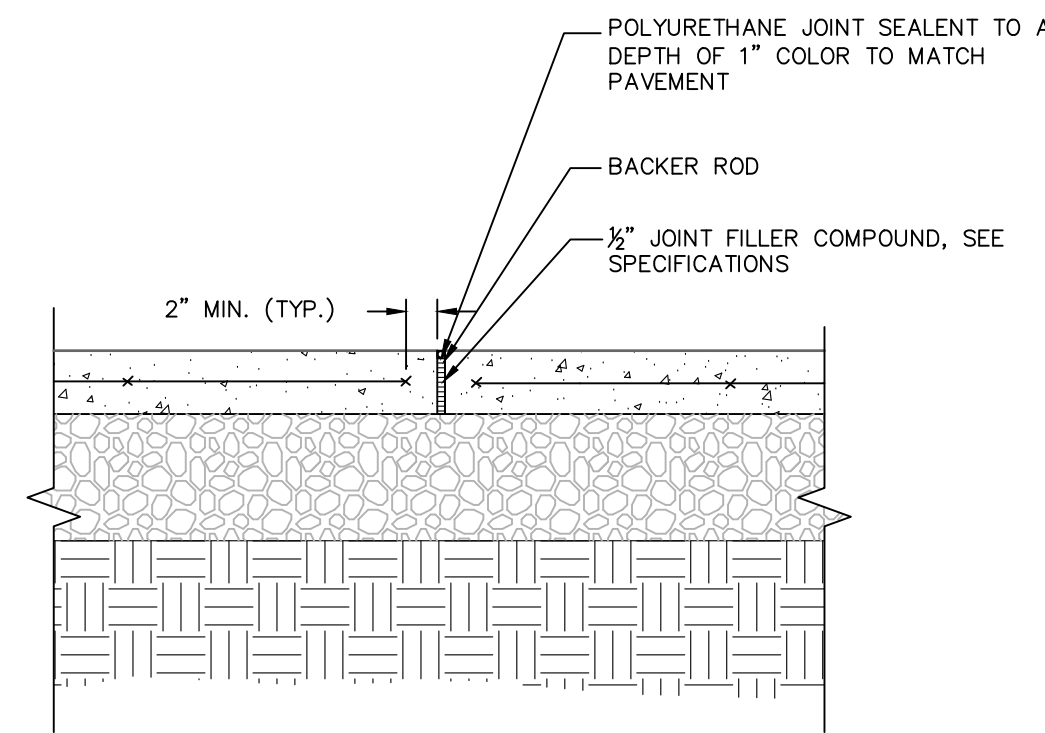
**4" CONCRETE WALKWAYS**

N.T.S.



**CONTROL JOINT IN CONCRETE WALKWAYS**

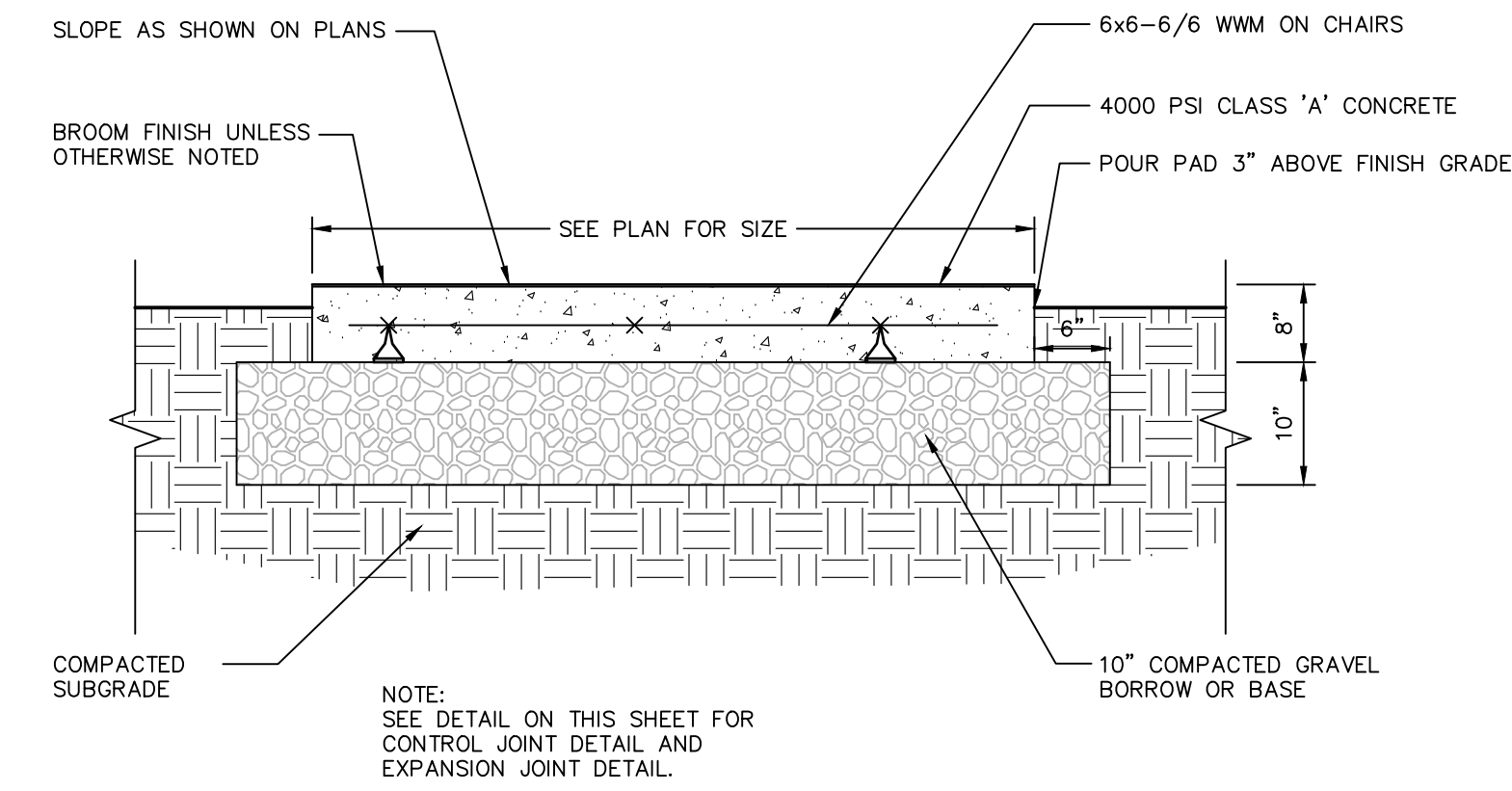
N.T.S.



NOTE: 1. EXPANSION JOINTS SHALL BE 24' O.C. UNLESS OTHERWISE NOTED ON THE PLANS.

**EXPANSION JOINT IN CONCRETE WALKWAYS**

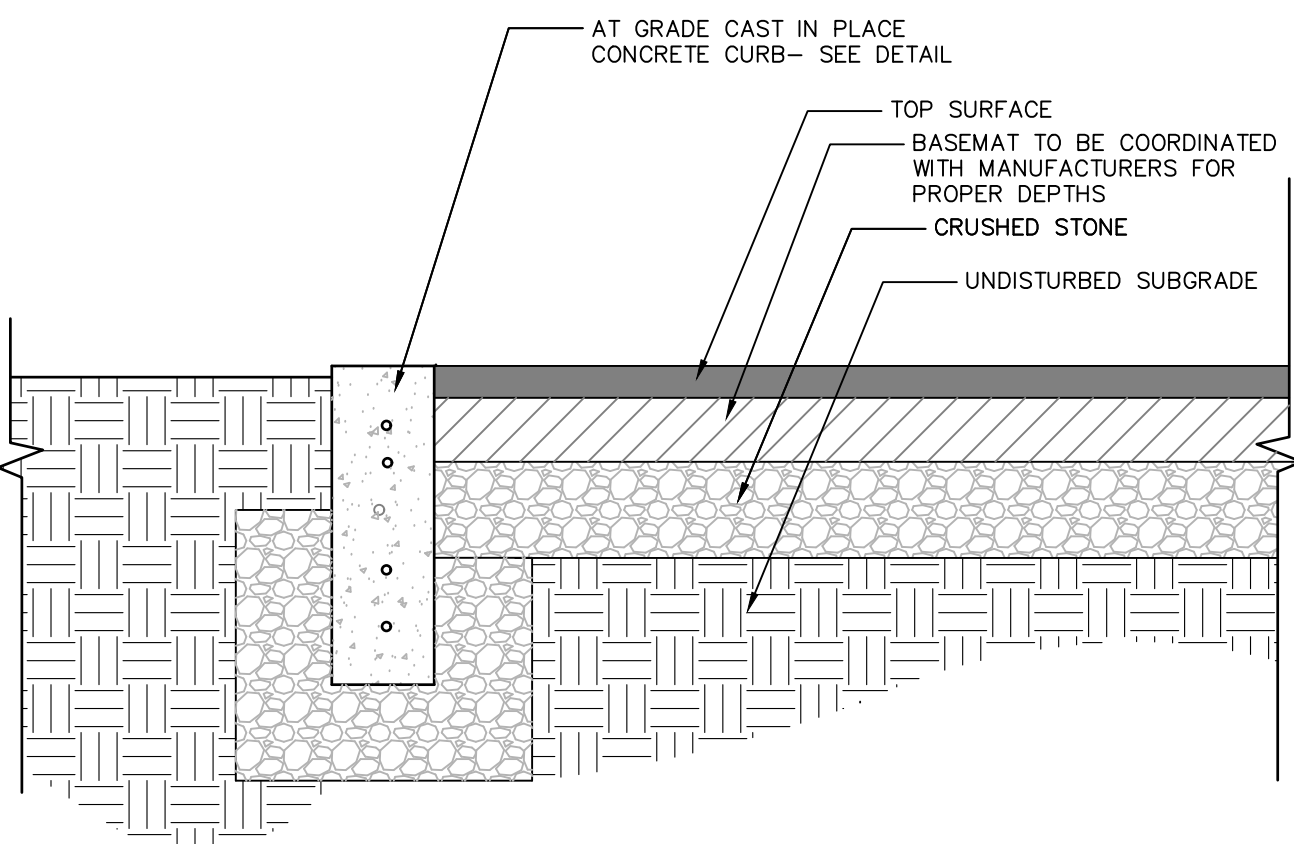
N.T.S.



**SECTION VIEW**

**CONCRETE UTILITY PAD**

N.T.S.



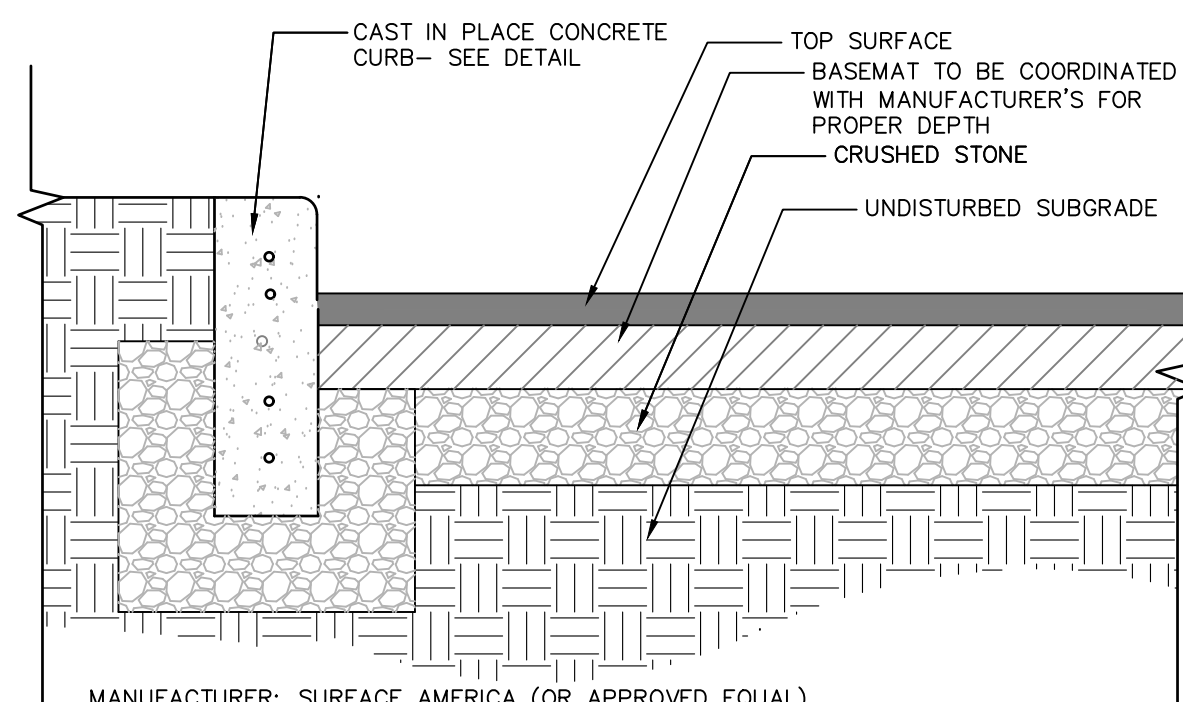
**ABUTTING AT GRADE CAST-IN-PLACE CONCRETE CURB**

MANUFACTURER: SURFACE AMERICA (OR APPROVED EQUAL)  
WEBSITE: WWW.SurfaceAmerica.com  
PHONE: 800-999-0555  
COLOR: SKY BLUE

NOTE:  
1. INSTALL PER MANUFACTURERS SPECIFICATIONS.  
2. CONTRACTOR TO COORDINATE PLAY SURFACING THICKNESS WITH FALL ZONES REQUIREMENTS PROVIDED BY PLAY STRUCTURE MANUFACTURER.

**PLAYGROUND SURFACING**

N.T.S.

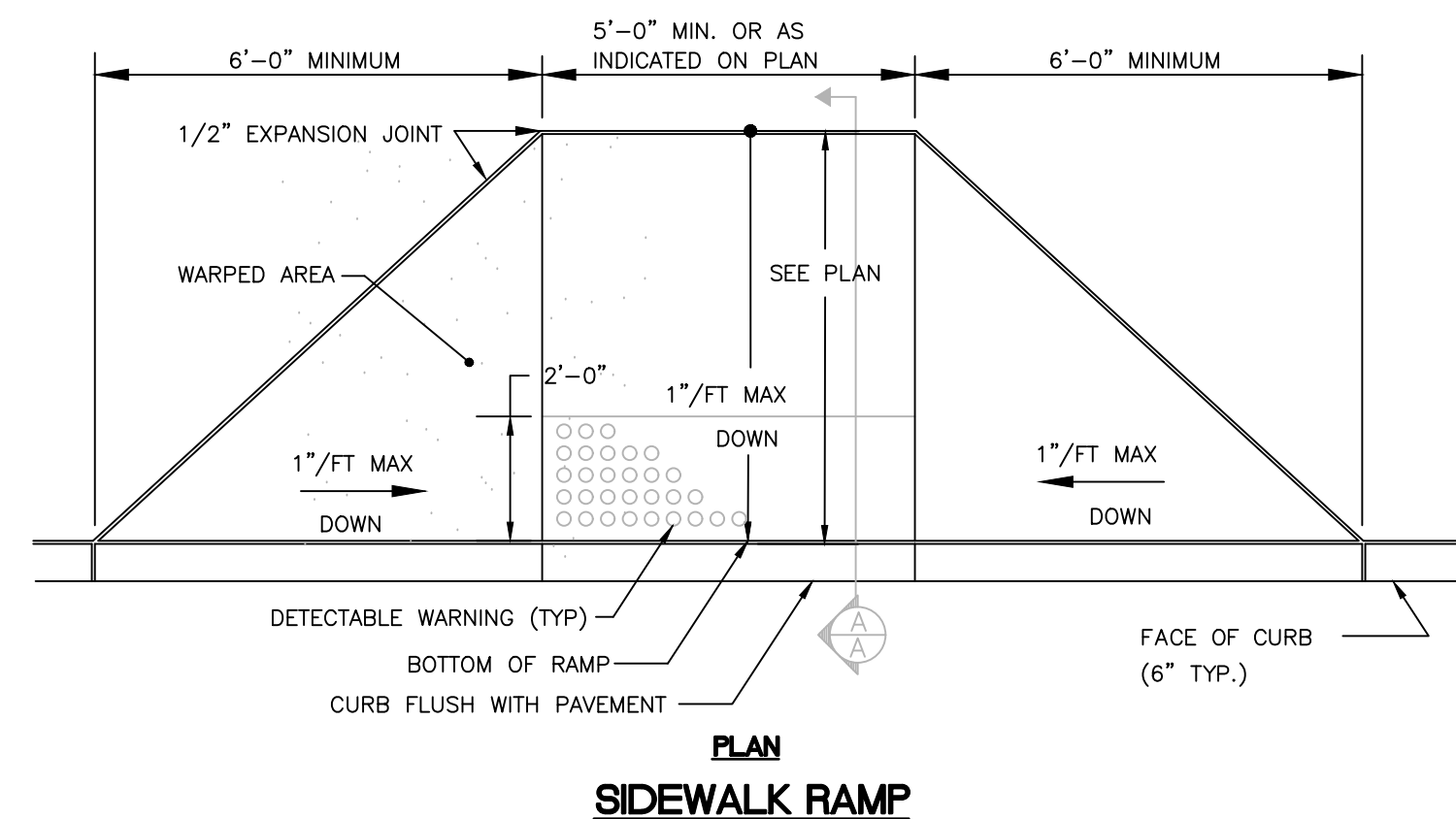


MANUFACTURER: SURFACE AMERICA (OR APPROVED EQUAL)  
WEBSITE: WWW.SurfaceAmerica.com  
PHONE: 800-999-0555  
COLOR: SKY BLUE

NOTE:  
1. INSTALL PER MANUFACTURERS SPECIFICATIONS.  
2. CONTRACTOR TO COORDINATE PLAY SURFACING THICKNESS WITH FALL ZONES REQUIREMENTS PROVIDED BY PLAY STRUCTURE MANUFACTURER.

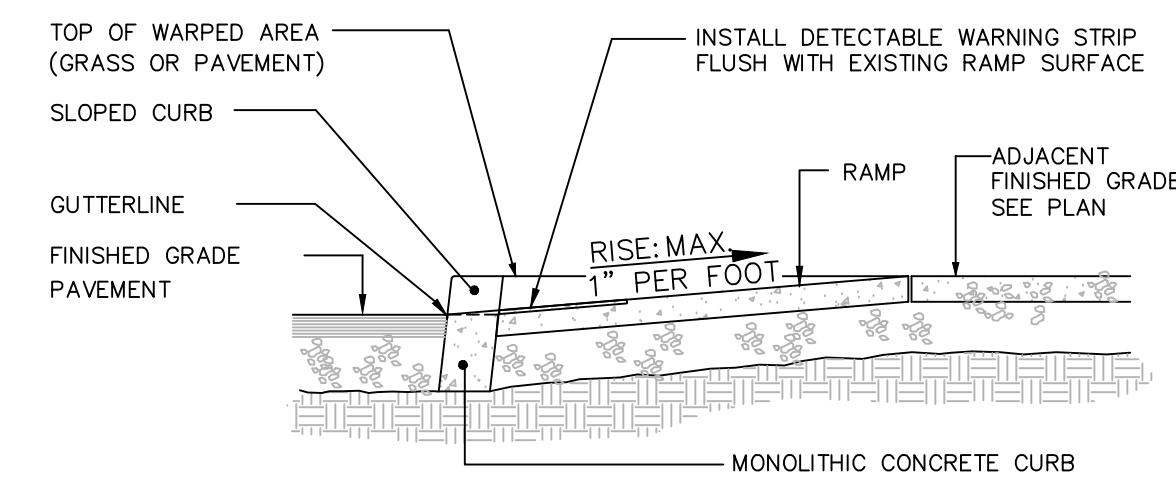
**PLAYGROUND SURFACING**

N.T.S.



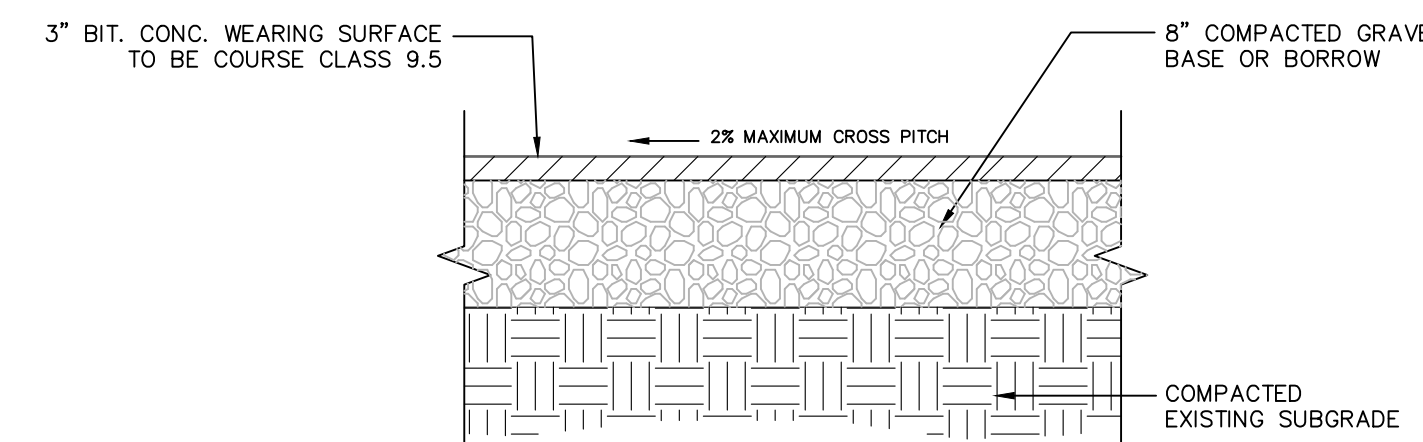
**CONCRETE CURB RAMPS**

N.T.S.



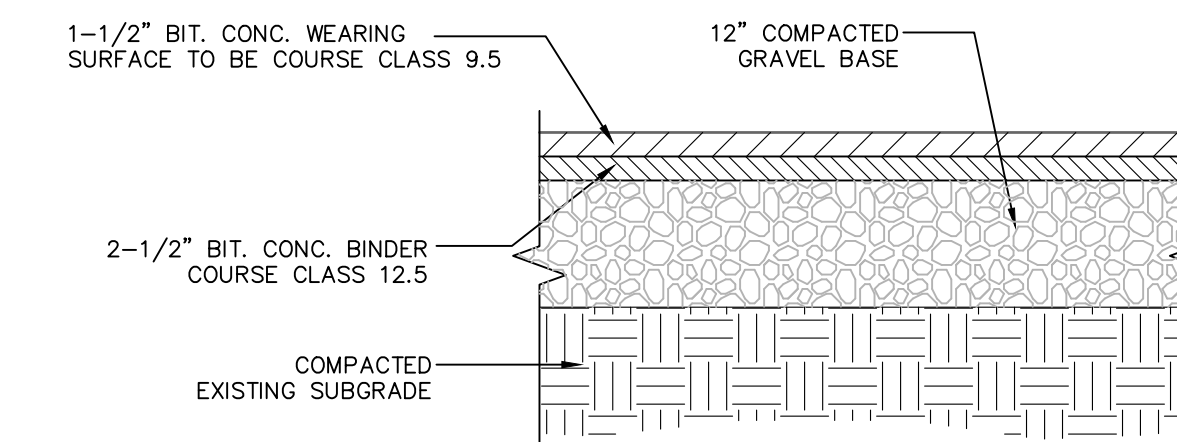
**SECTION A-A**

NOTE:  
1. RAMP DETAIL APPLIES TO STRAIGHT CURB AND RADIUS CURB SECTIONS. SEE PLANS FOR SPECIFIC FINISH TREATMENT AND GRADING REQUIREMENTS.  
2. DETAIL IS SHOWN FOR DESIGN INTENT, ACTUAL CONDITIONS MAY VARY. CONTRACTOR TO VERIFY CONDITION FROM LAYOUT AND GRADING PLANS.  
3. DETECTABLE WARNINGS SHALL CONSIST OF WET SET REPLACEABLE WARNING PANELS (SEE SITE PLAN FOR PANEL SIZES) ARMORCAST OR APPROVED EQUAL.  
4. COLOR OF DETECTABLE WARNING PANELS SHALL BE GREY.



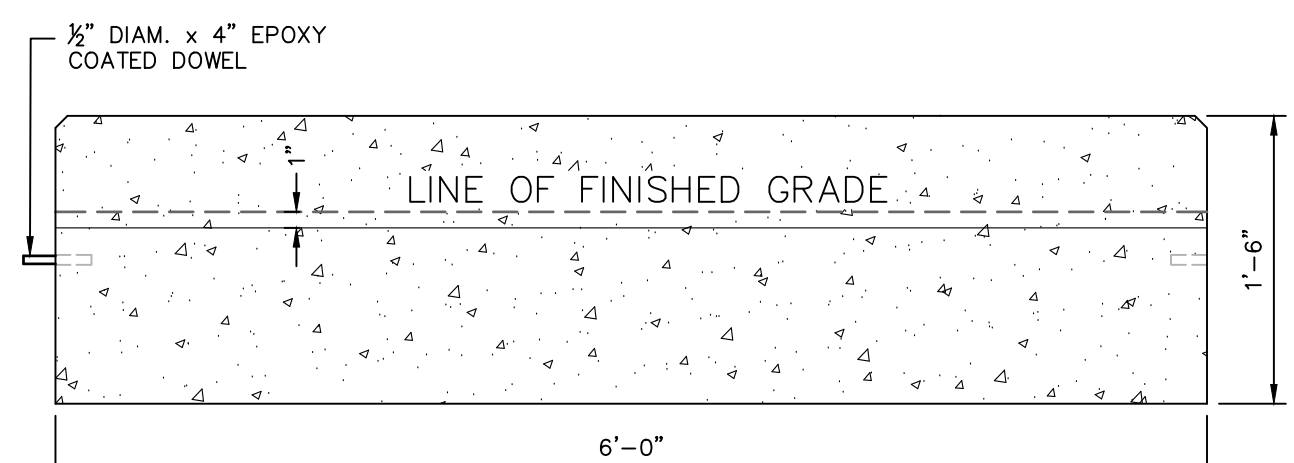
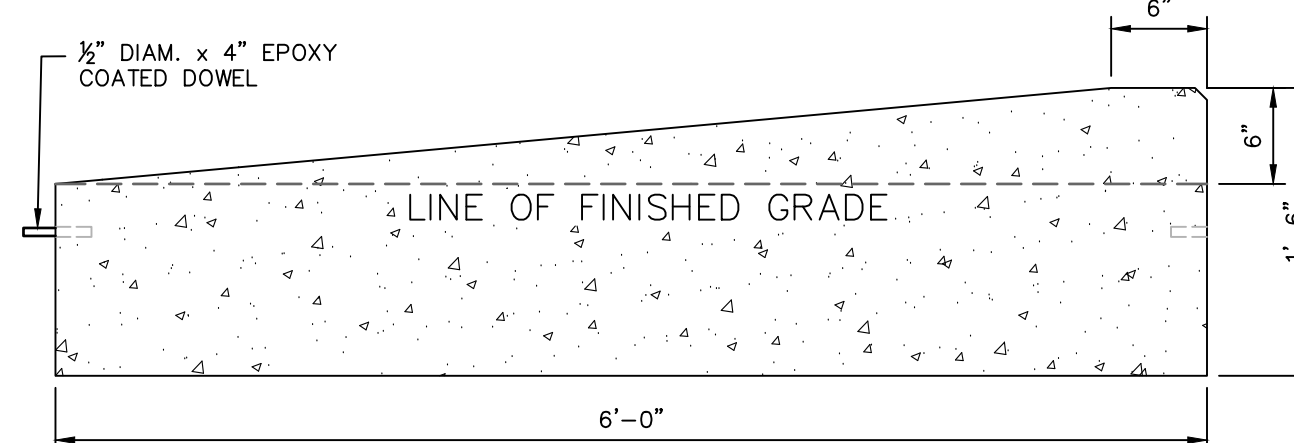
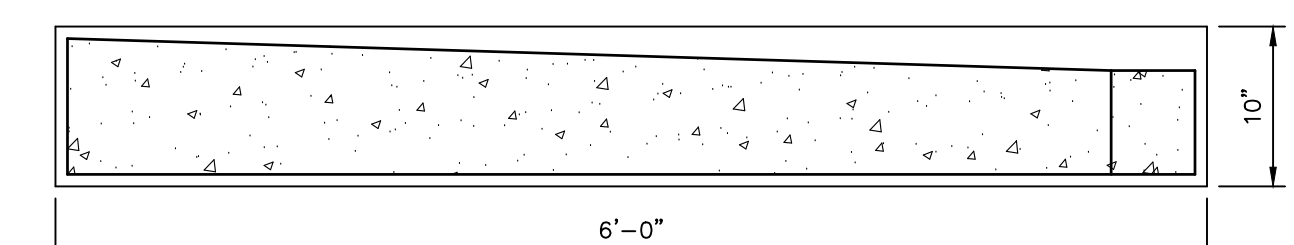
**ASPHALT WALKWAY**

N.T.S.



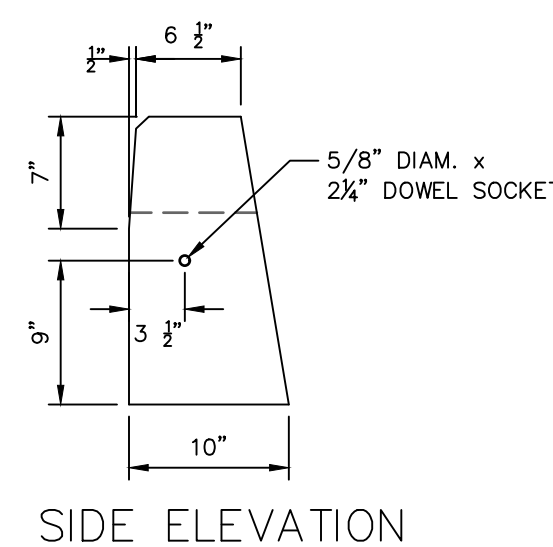
**VEHICULAR RATED ASPHALT PAVING**

N.T.S.



**PRECAST CONCRETE CURB**

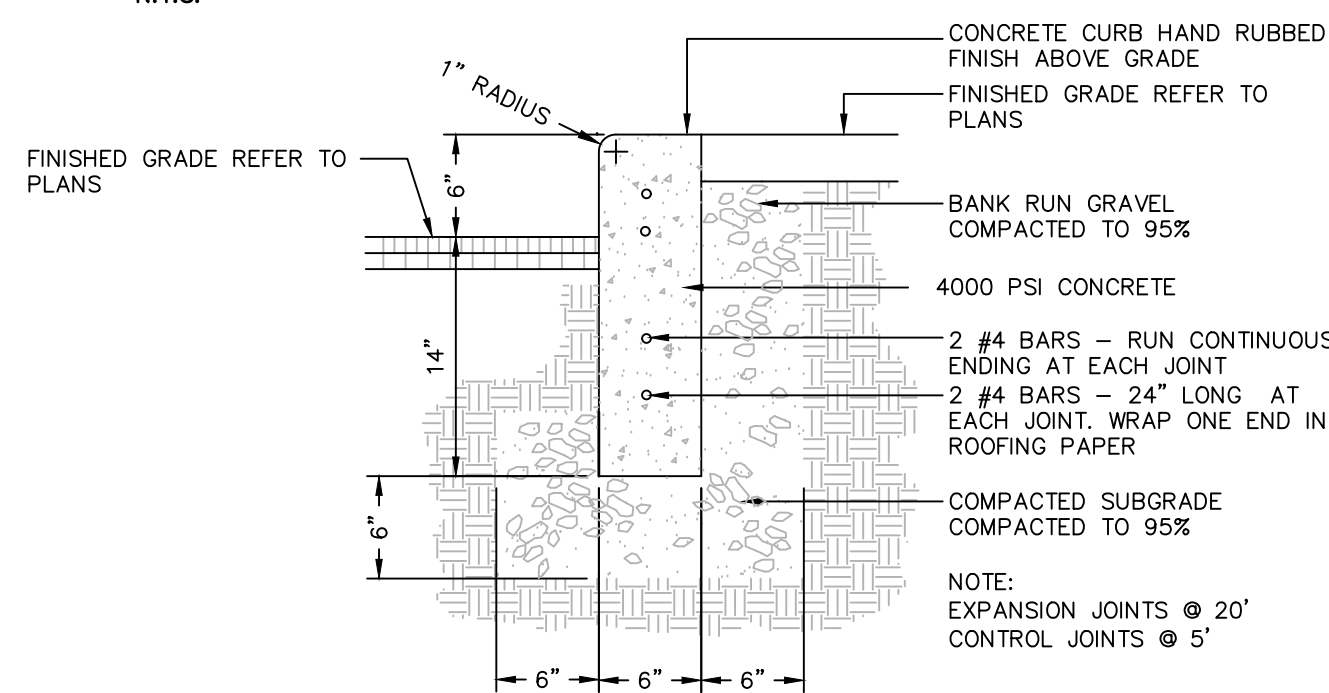
N.T.S.



NOTES:  
1. USE CLASS 'B' CONCRETE.  
2. TRANSITION CURB IN OTHER DIRECTION IS OPPOSITE HAND.  
3. EXPOSED EDGES TO HAVE A 3/4" CHAMFER.

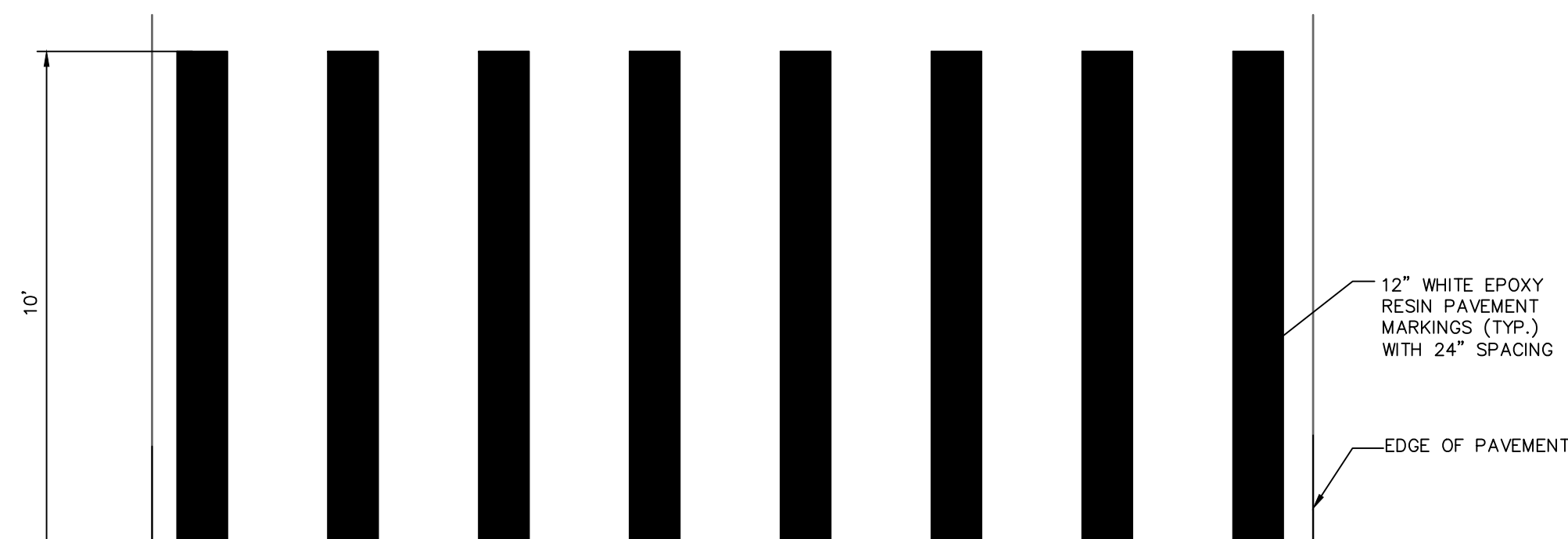
**CAST IN PLACE CONCRETE CURB**

N.T.S.



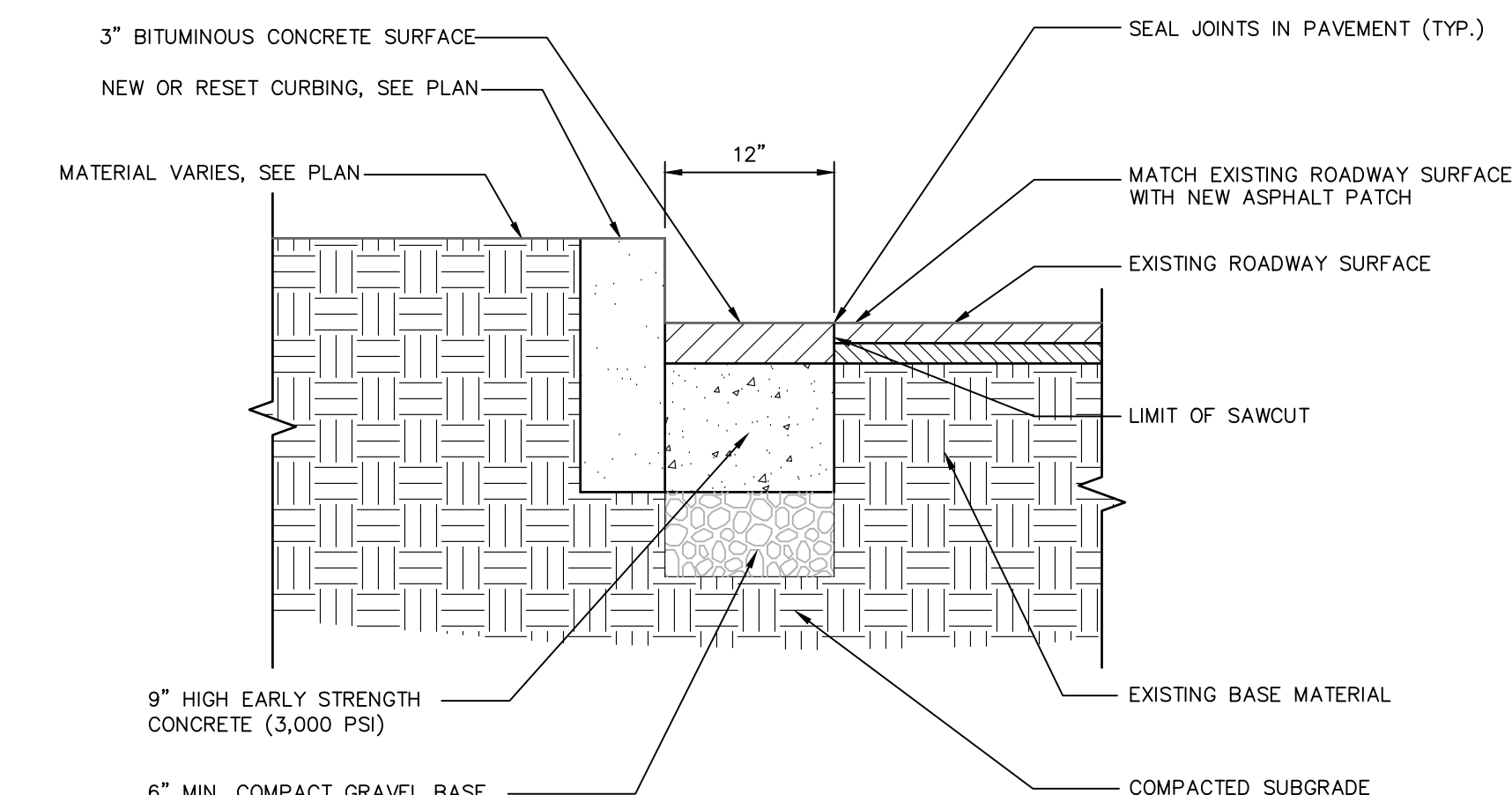
**CAST IN PLACE CONCRETE CURB**

N.T.S.



**CROSSWALK STRIPING DETAIL**

N.T.S.



**ASPHALT PATCH DETAIL**

N.T.S.

REVISIONS	Date	Desc.
No.		

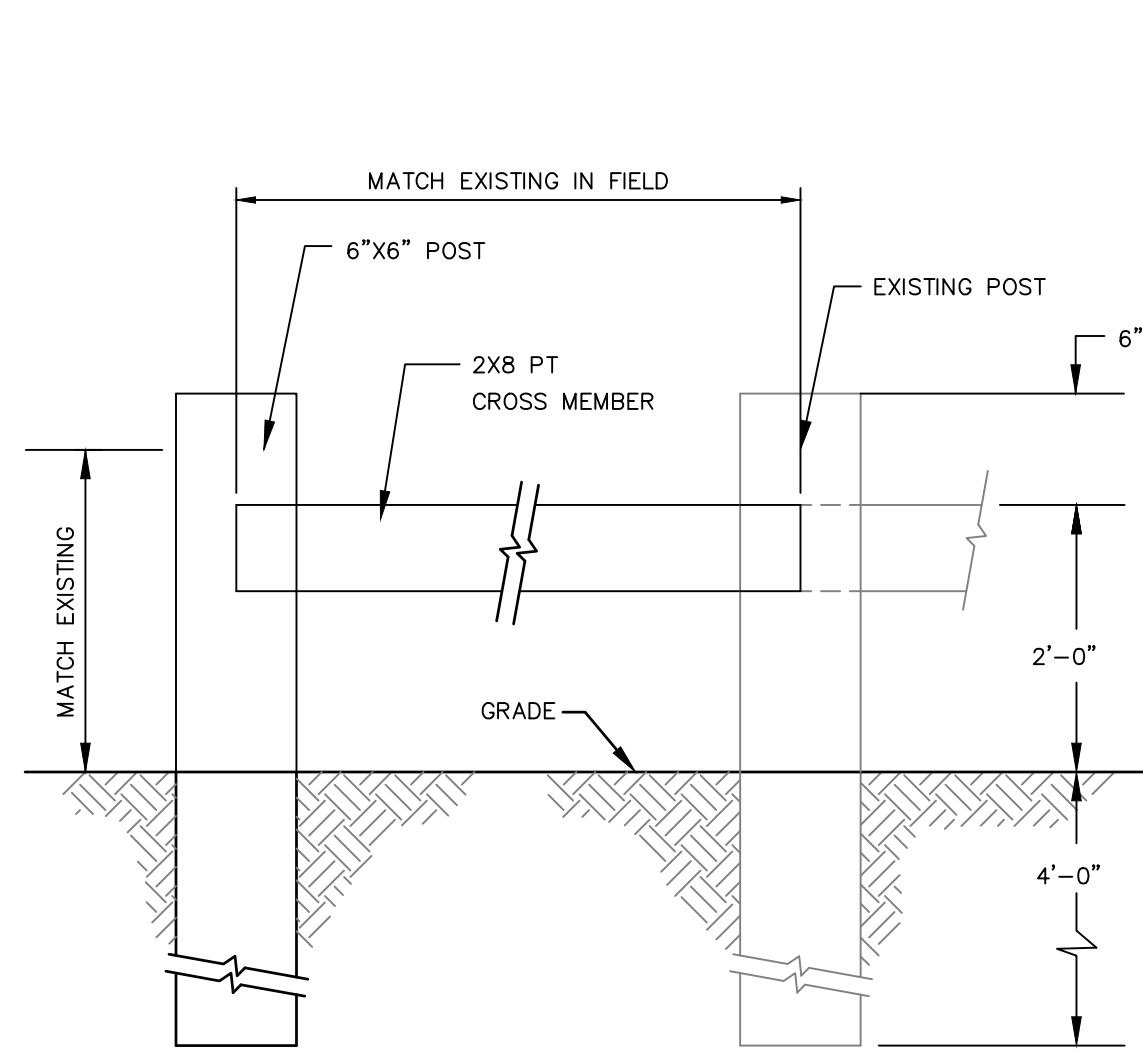
Designed: J.W.  
Drawn: J.W.  
Reviewed: D.C.  
Scale: N.T.S.  
Project No.: 2100515  
Date: June 2023  
CAD File: DN210051501

**SITE DETAILS**

Sheet No.

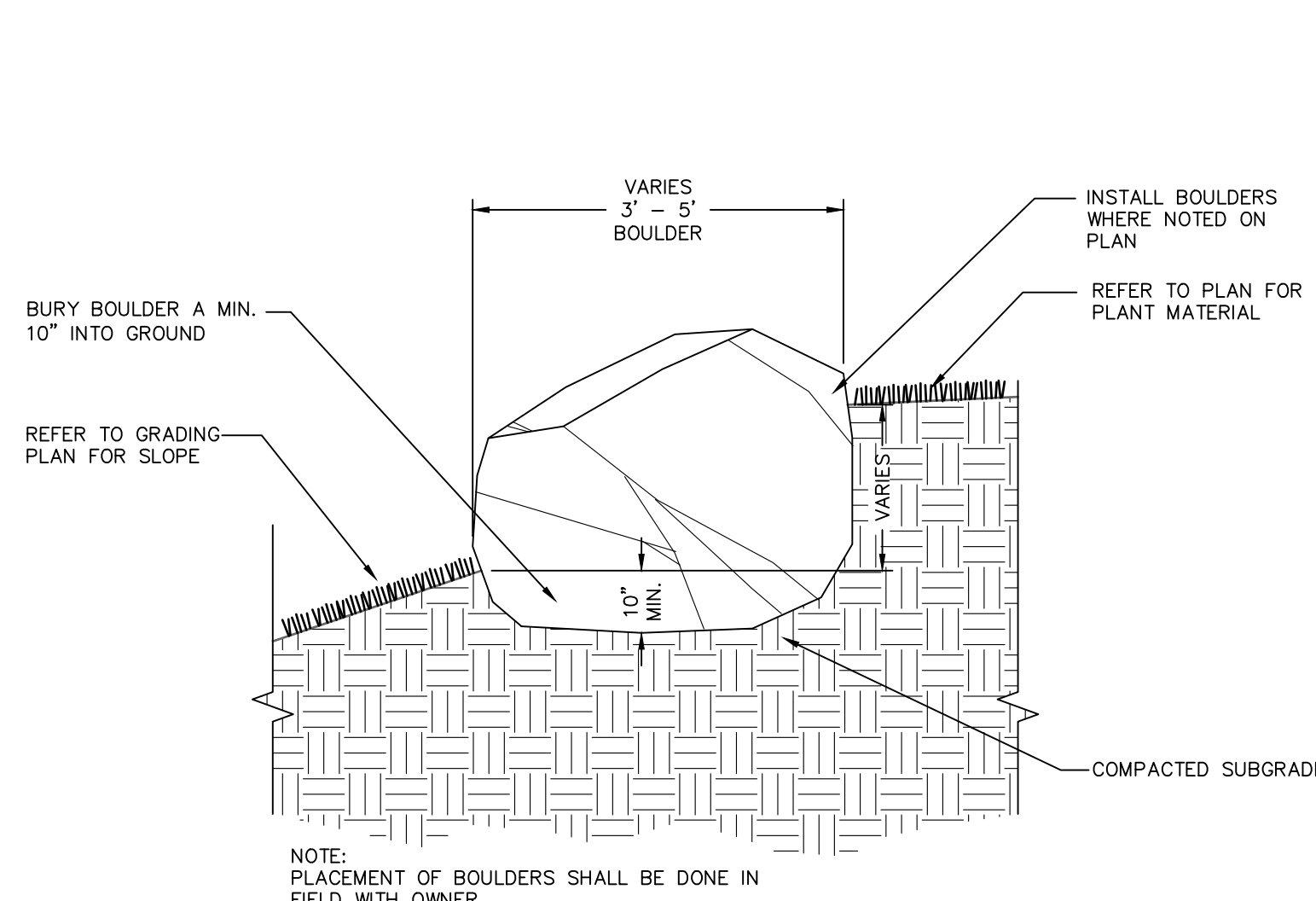
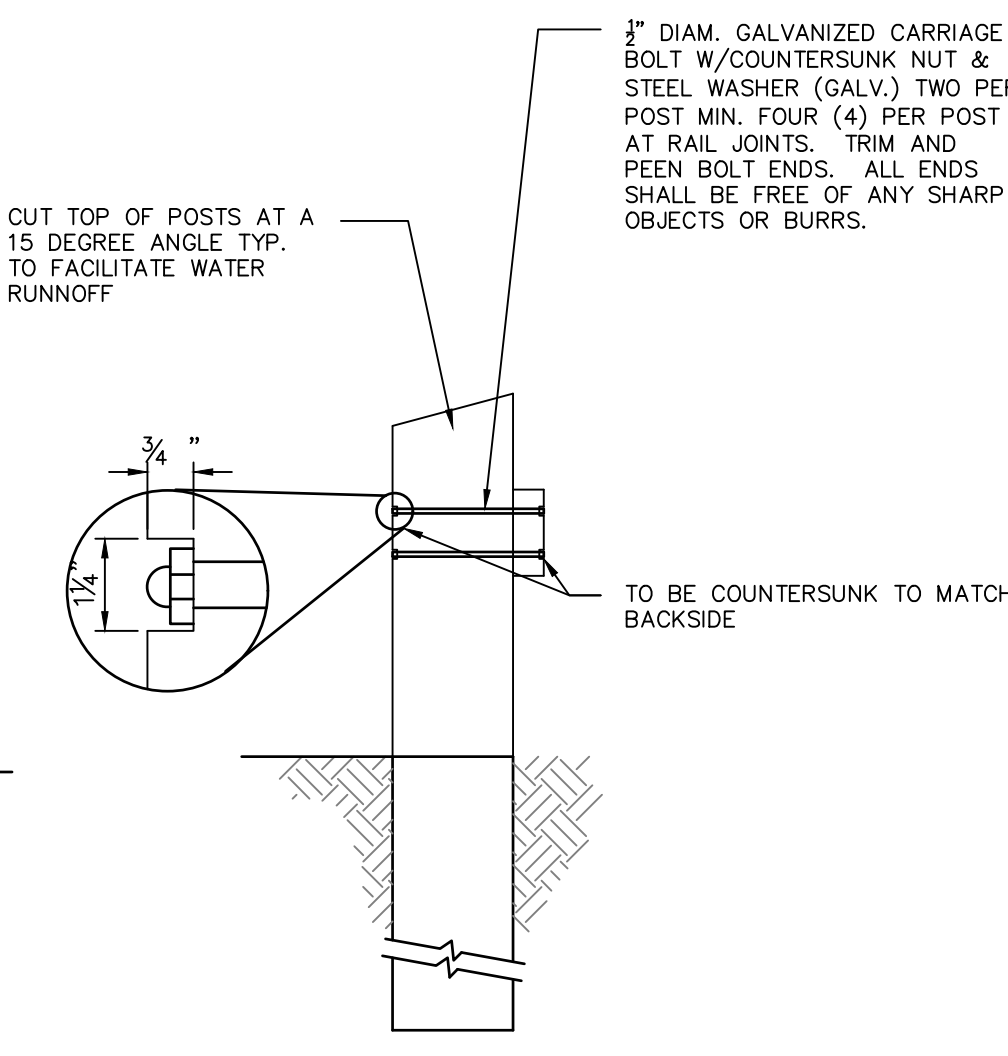
4/14/2023, JPH/ELB, C:\0382\03\ACT100515\DWG\DN210051501.dwg

Sheet ID: #B210051501



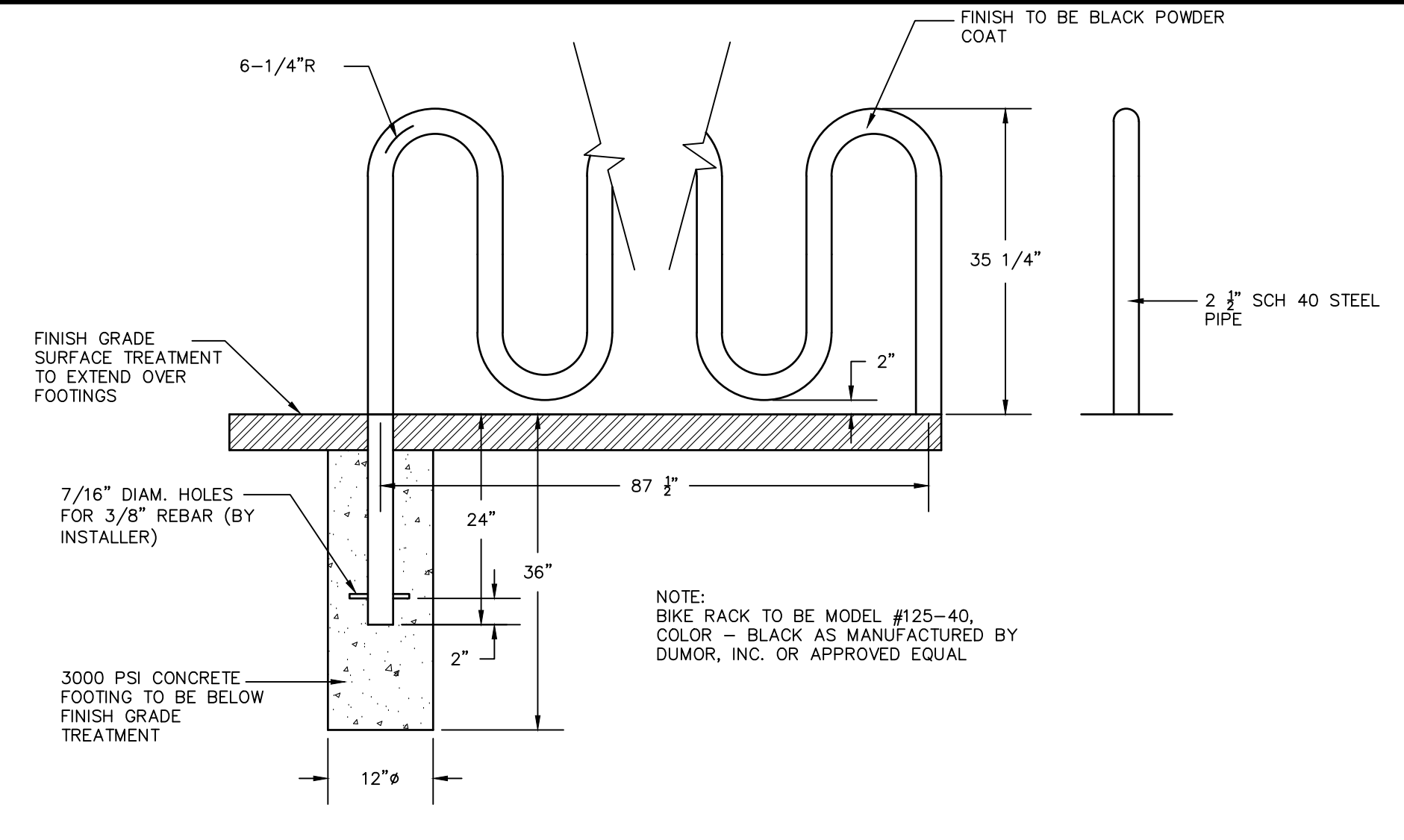
**ADJUSTED TIMBER GUARDRAIL**

SCALE: NTS



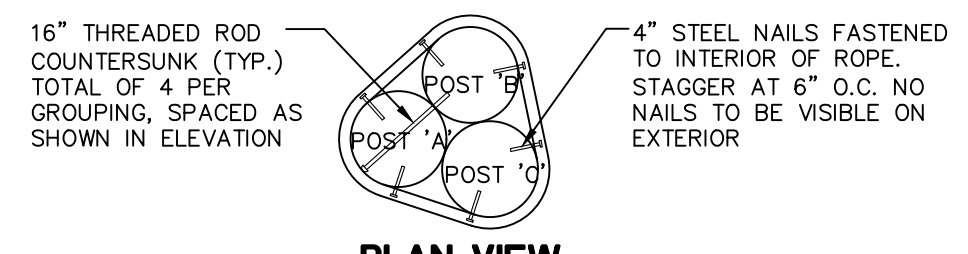
**BOULDER PLACEMENT DETAIL**

N.T.S.

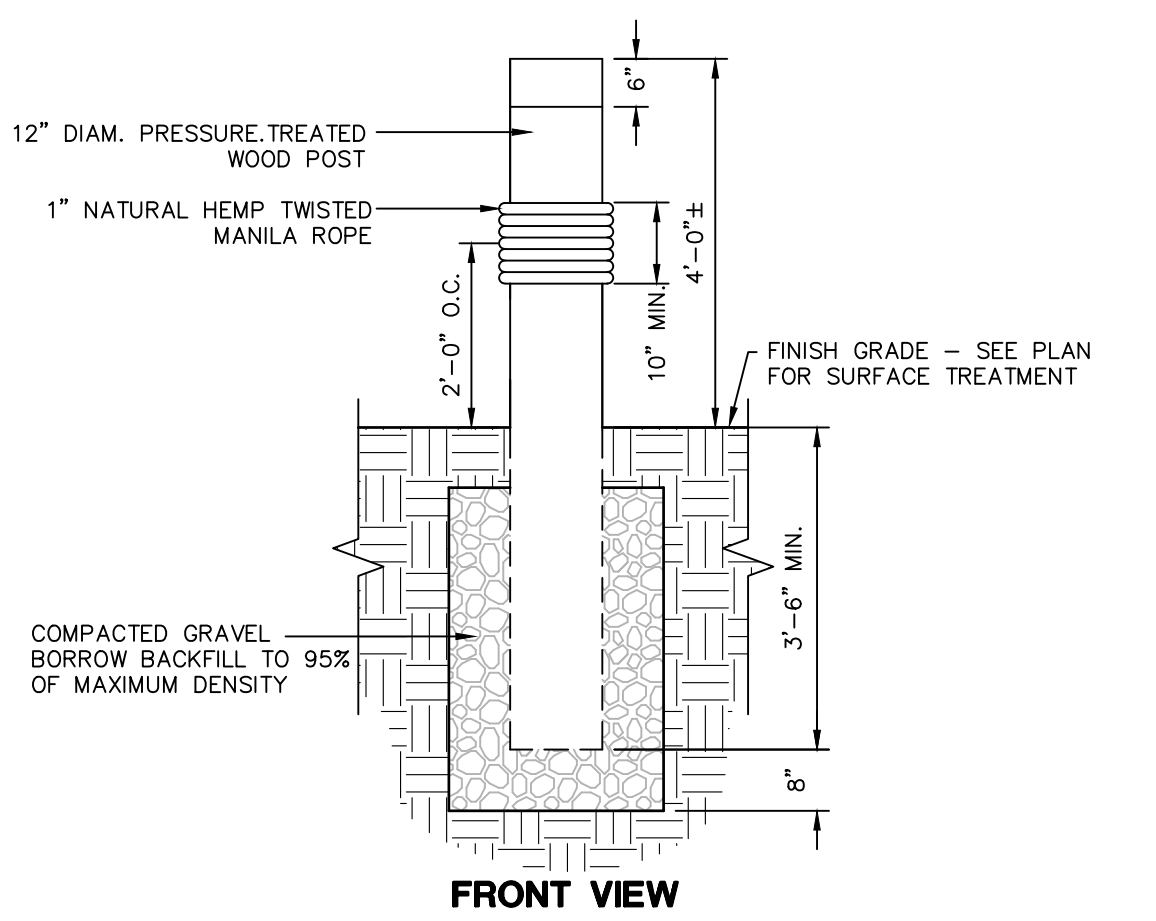


**BIKE RACK DETAIL**

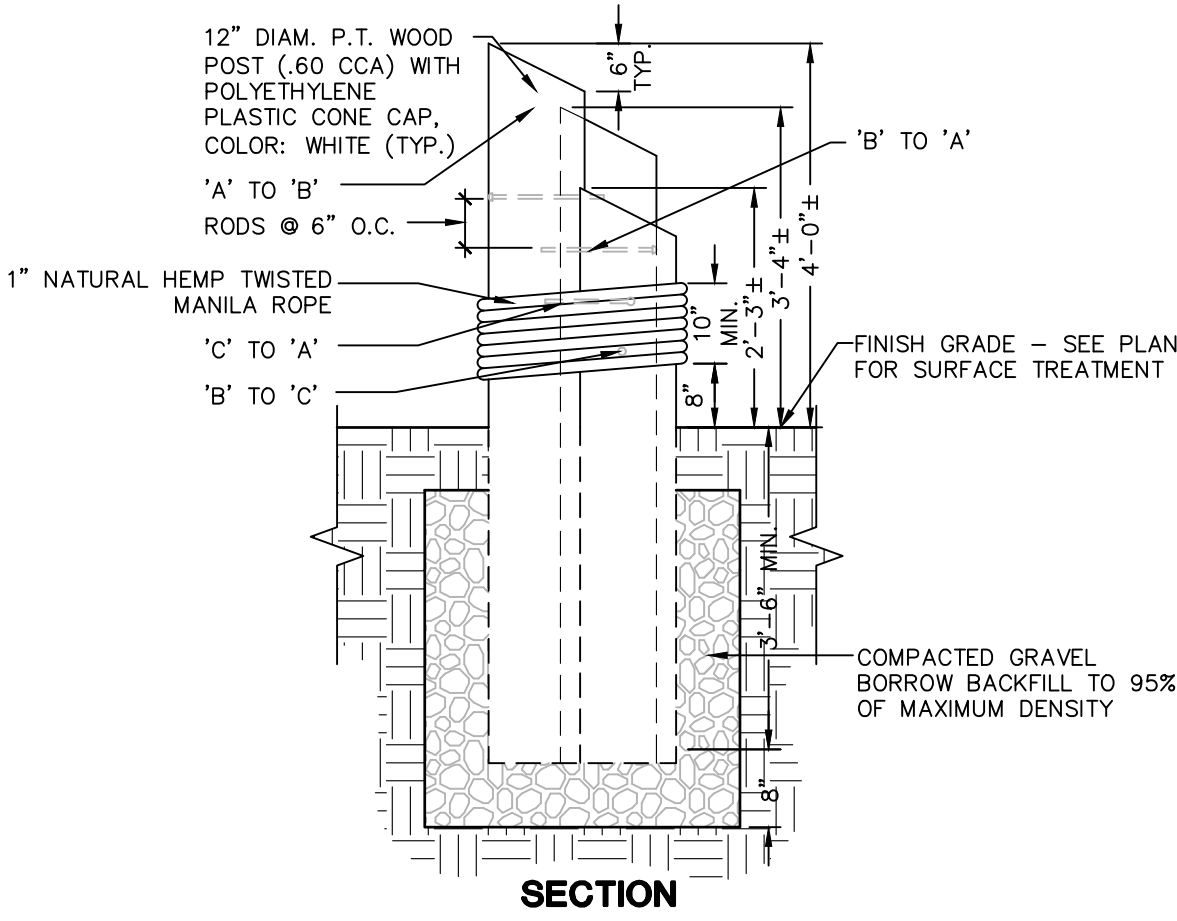
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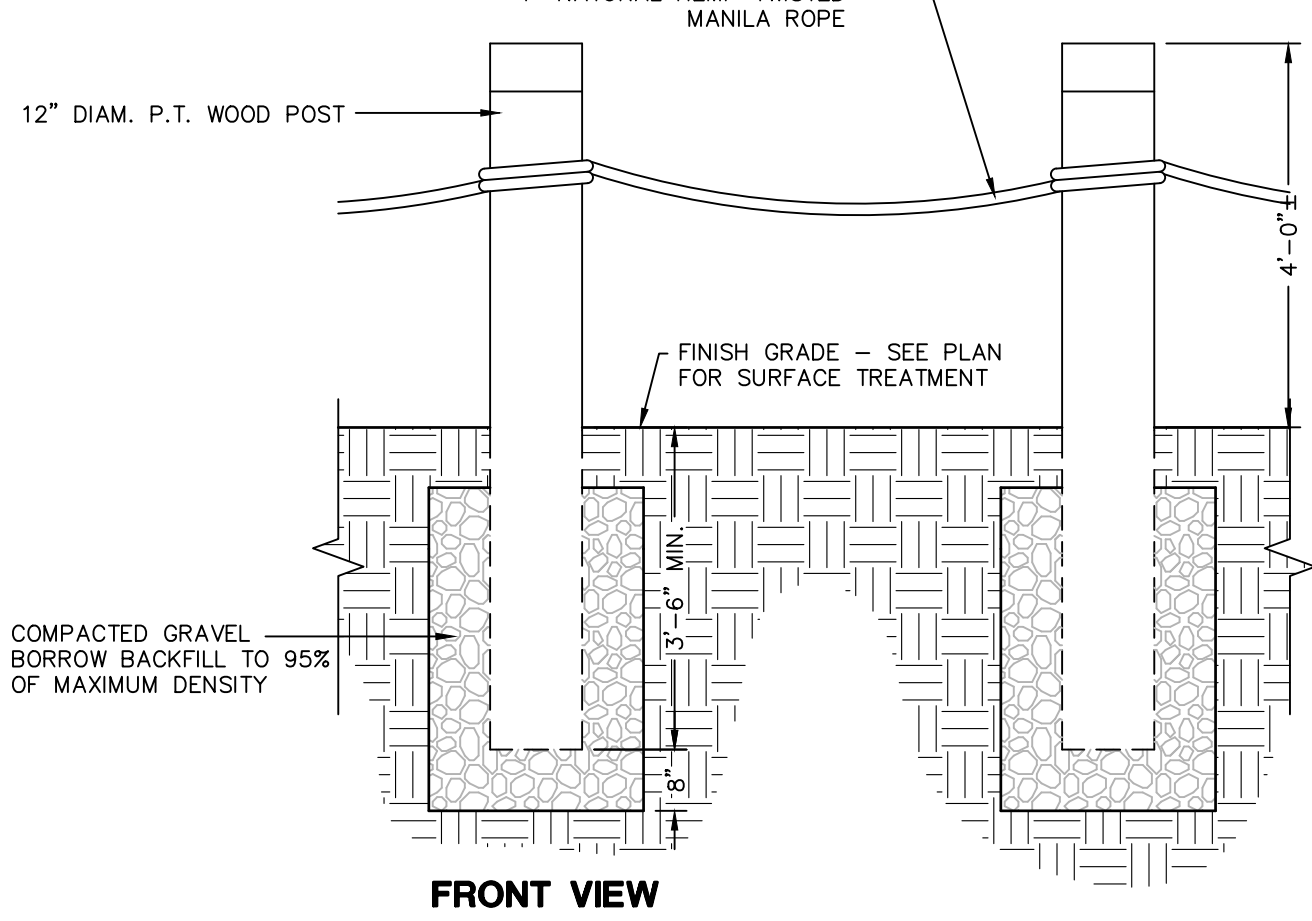
PLAN VIEW



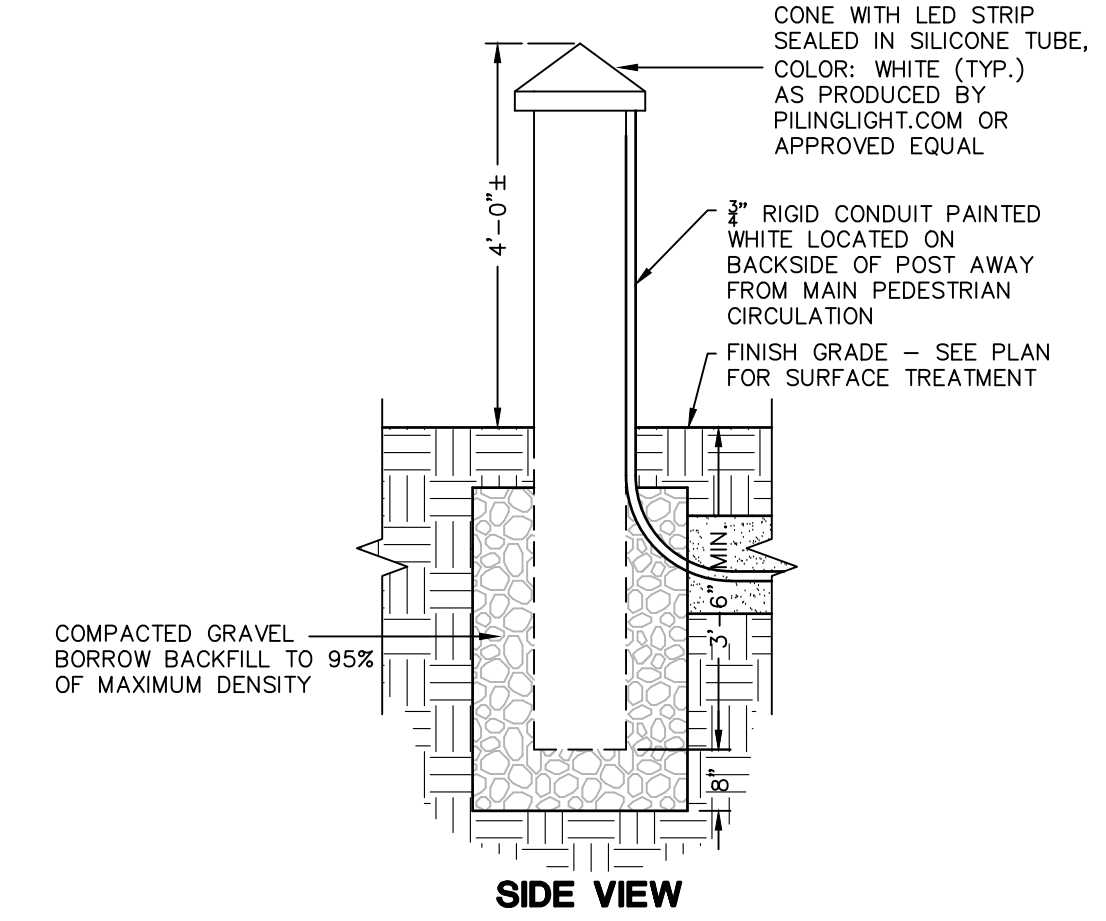
FRONT VIEW



SECTION



FRONT VIEW



SIDE VIEW

**NAUTICAL BOLLARD - SINGLE**

N.T.S.

**NAUTICAL BOLLARD - TRIPLE**

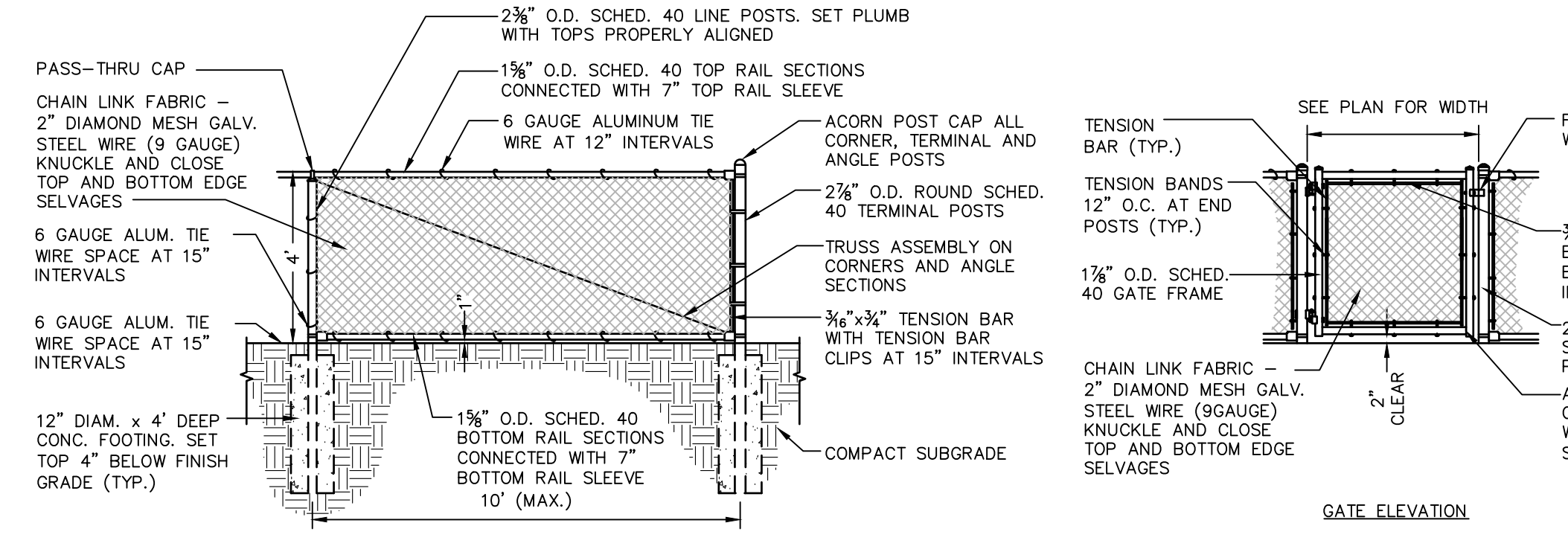
N.T.S.

**NAUTICAL BOLLARD - WITH ROPE**

N.T.S.

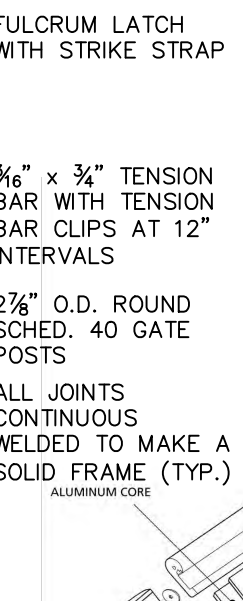
**NAUTICAL LIGHTED BOLLARD**

N.T.S.

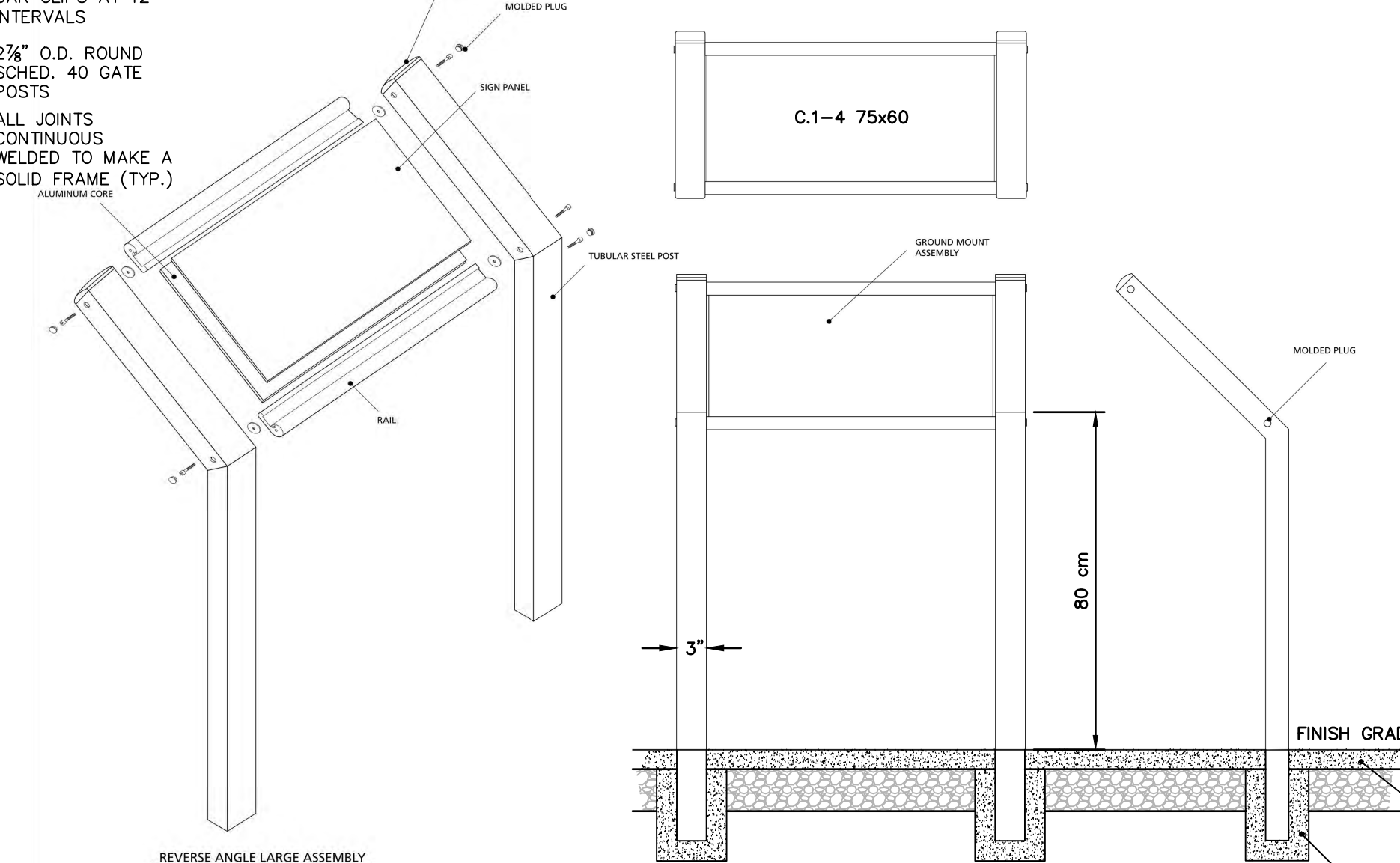


**4' HIGH BLACK VINYL CHAINLINK FENCE**

N.T.S.

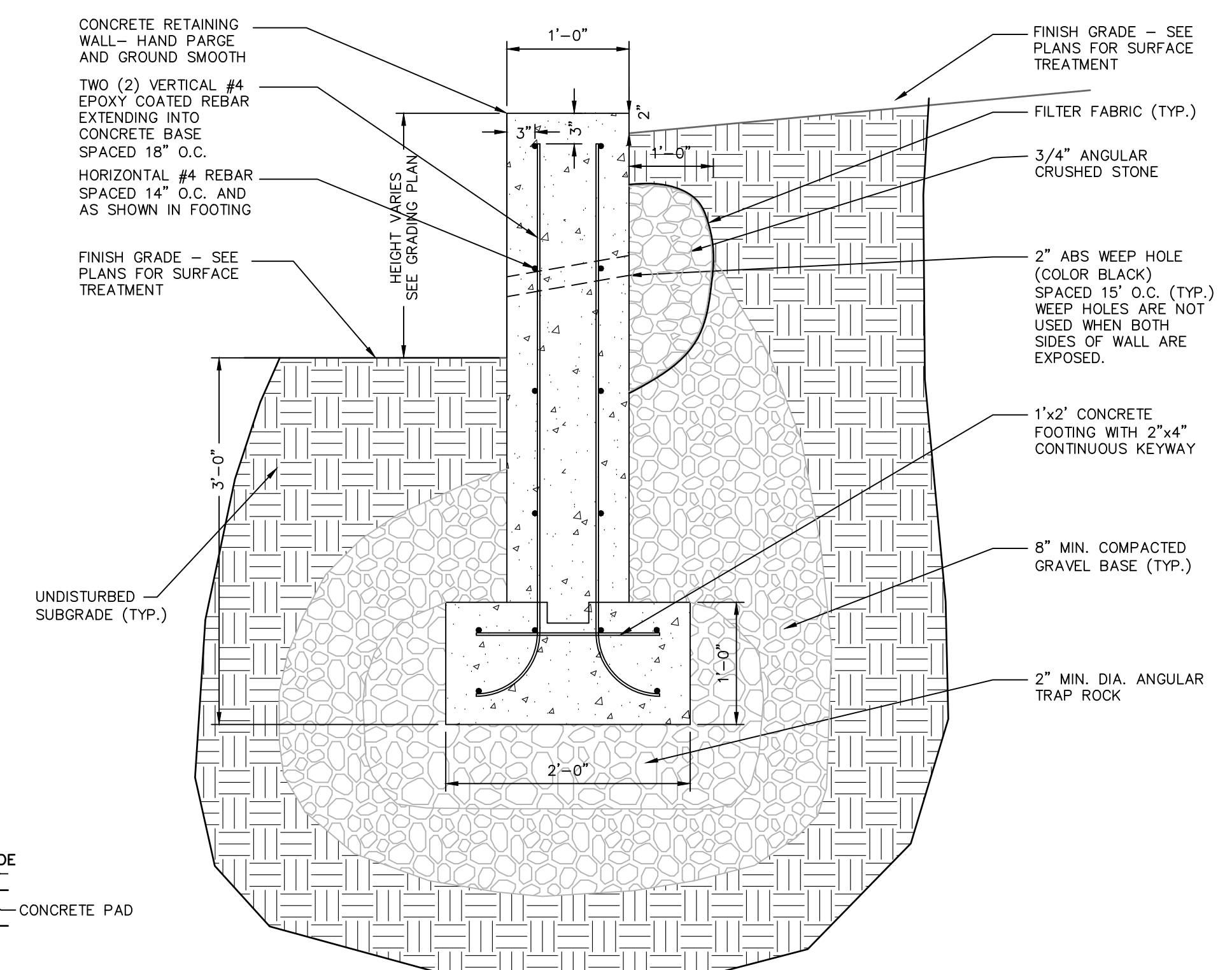


GATE ELEVATION



**INTERPRETIVE SIGNAGE**

N.T.S.



**1' WIDE CONCRETE RETAINING WALL**

N.T.S.

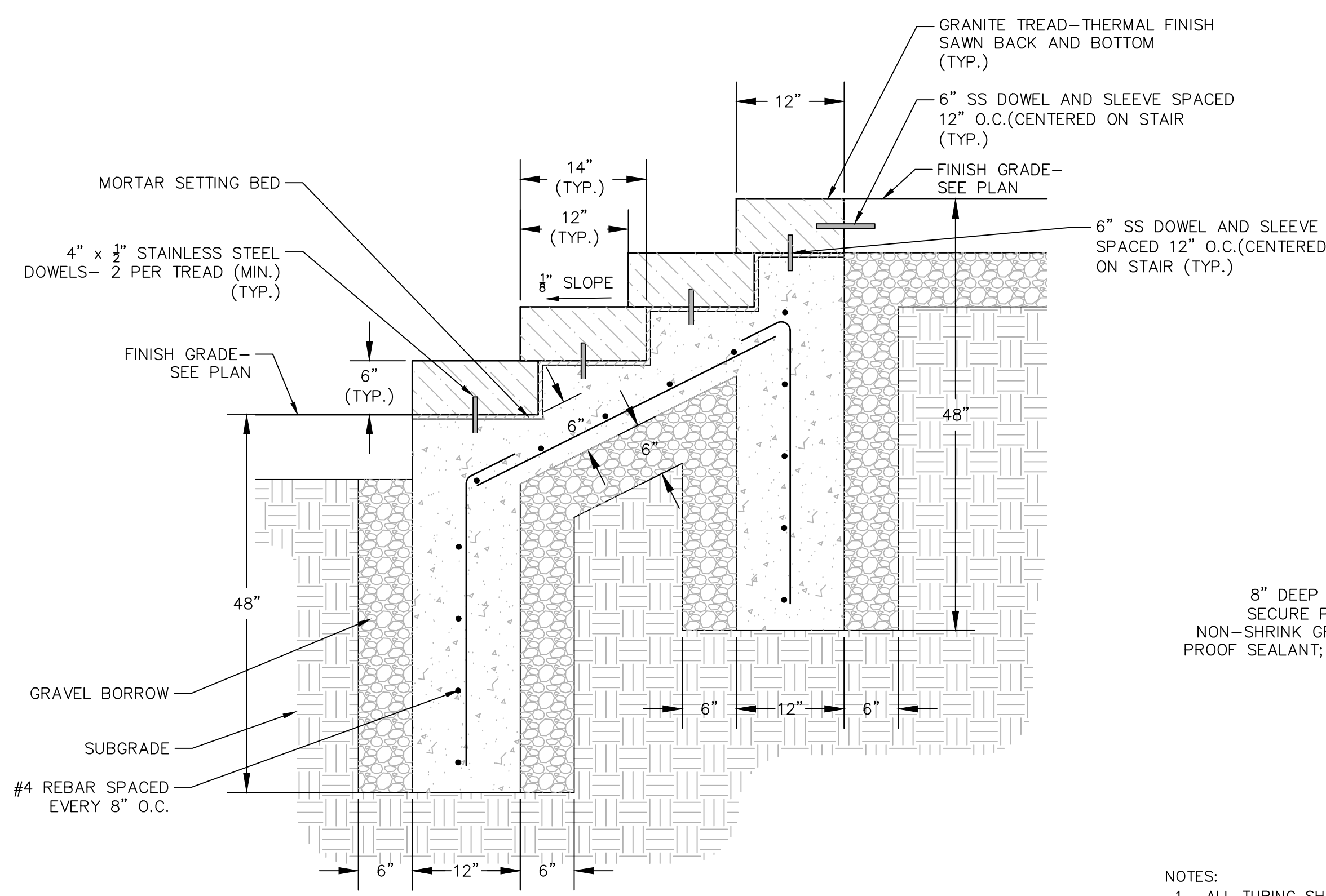
REVISIONS	No.	Date	Desc.

Designed: J.W.  
Drawn: J.W.  
Reviewed: D.C.  
Scale: N.T.S.  
Project No.: 2100515  
Date: June 2023  
CAD File: DN210051501

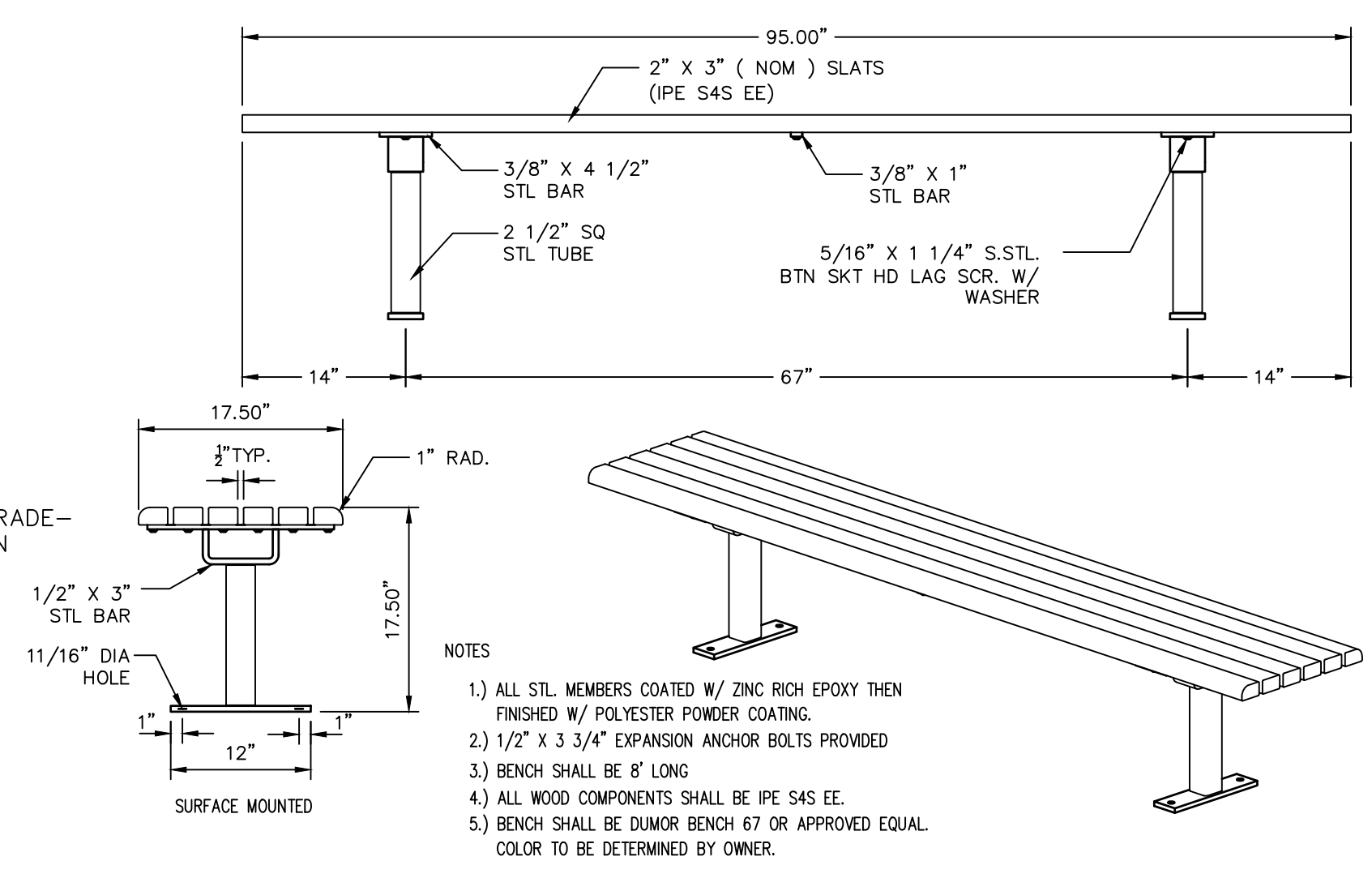
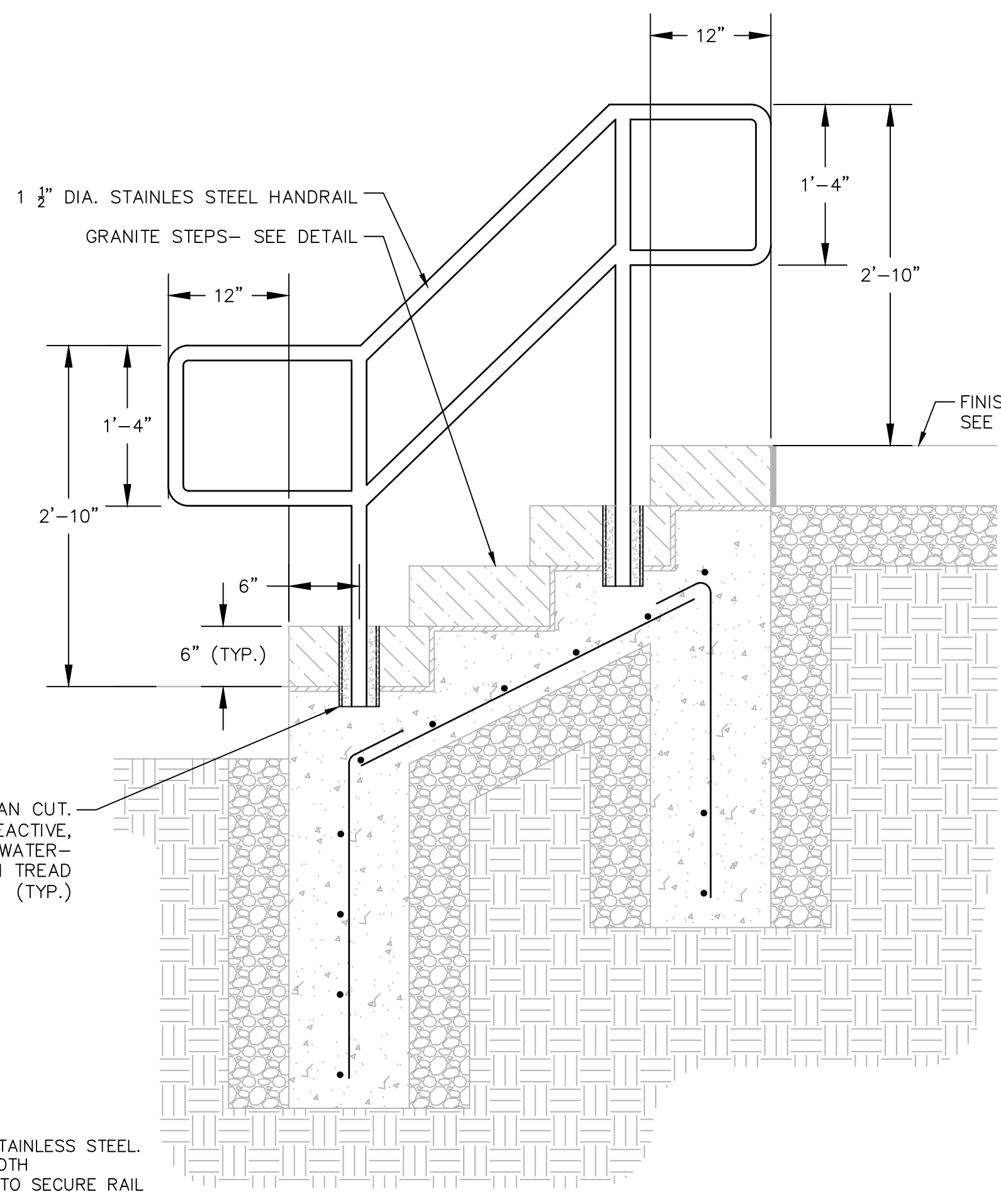
REVISIONS	No.	Date	Desc.

Designed J.W.  
Drawn J.W.  
Reviewed D.C.  
Scale N.T.S.  
Project No. 2100515  
Date June 2023  
CAD File: DN210051501

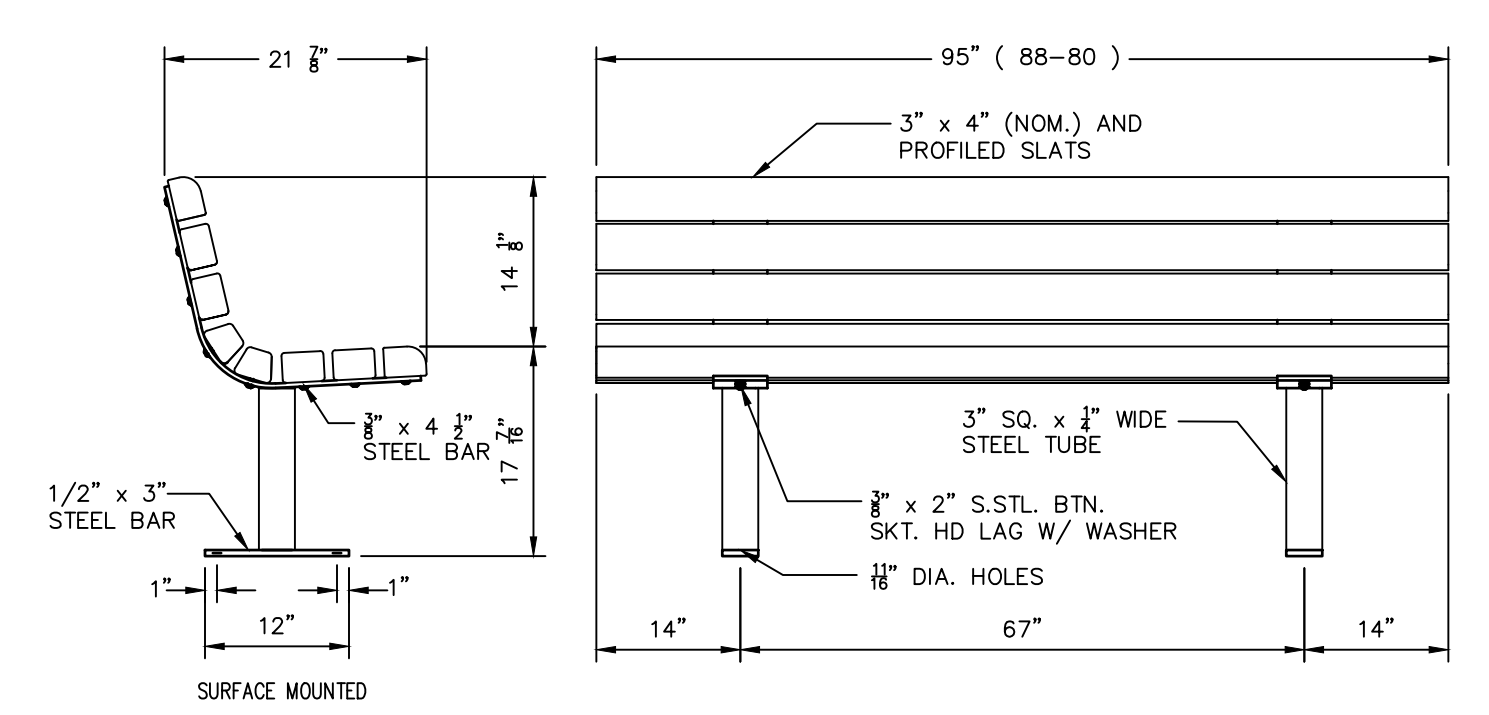
Title **SITE DETAILS**  
Sheet No.



- NOTES:
1. ALL TUBING SHALL BE 1 1/2" DIA. STAINLESS STEEL.
  2. WELD AND GRIND ALL JOINTS SMOOTH
  3. PROVIDE 6" SLEEVE IN CONCRETE TO SECURE RAIL POST WITH NON-SHRINK GROUT.
  4. THERMAL FINISH ON ALL EXPOSED SURFACES OF GRANITE.

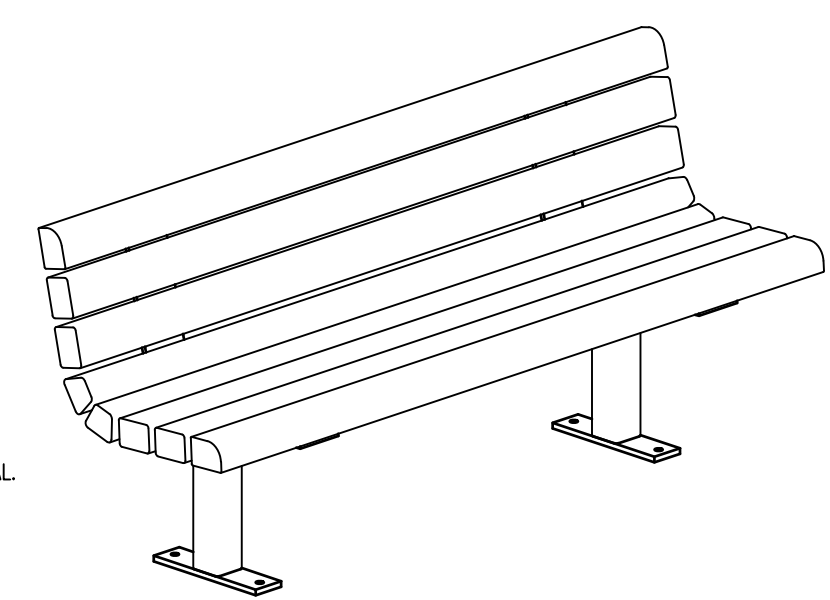


**SURFACE MOUNTED BENCH WITHOUT BACK**  
N.T.S.



**SURFACE MOUNTED BENCH WITH BACK**  
N.T.S.

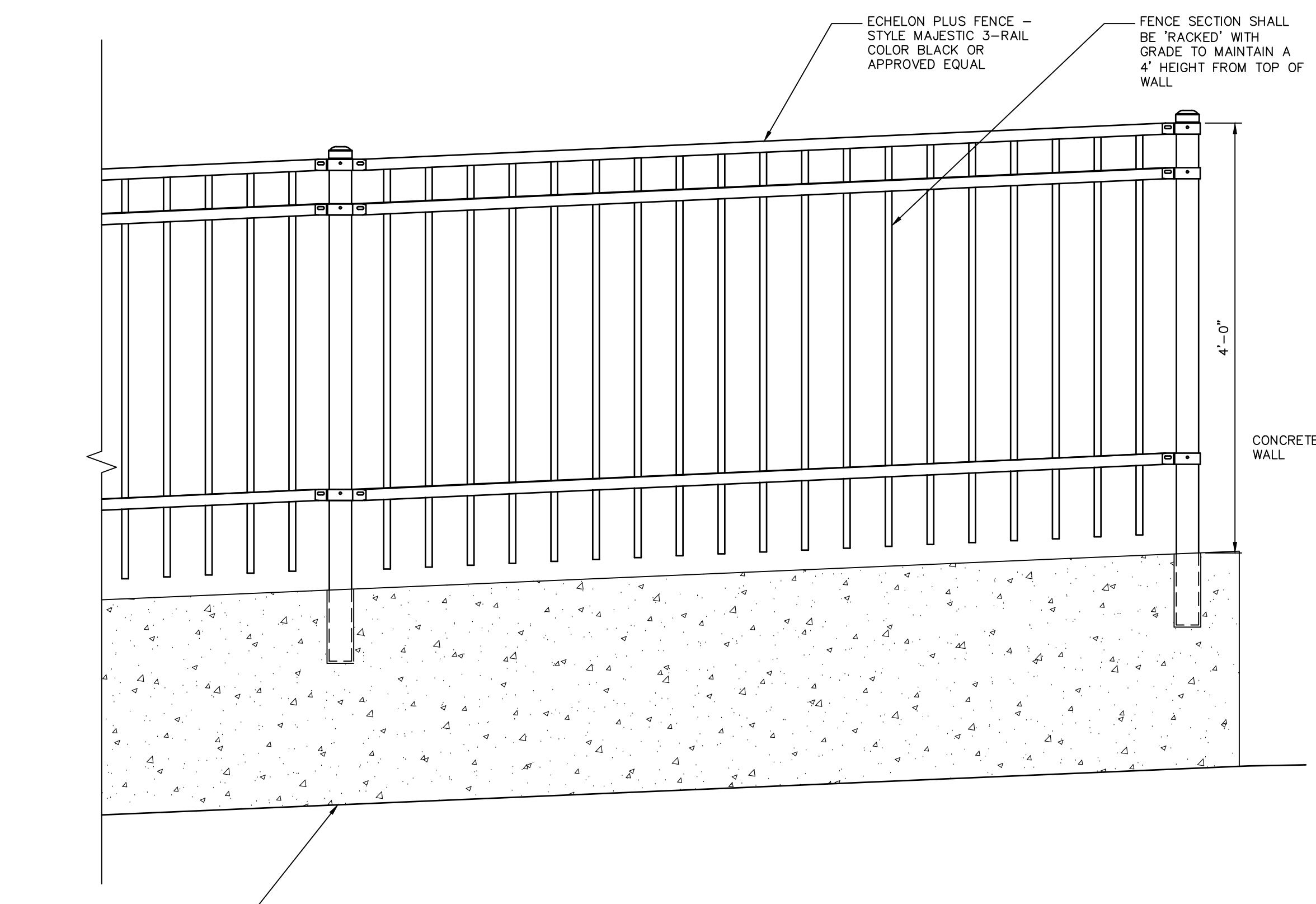
- NOTES
- 1) ALL STL MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.
  - 2) 1/2" X 3 3/4" EXPANSION ANCHOR BOLTS PROVIDED
  - 3) BENCH SHALL BE 8" LONG
  - 4) ALL WOOD COMPONENTS SHALL BE IPE S4S EE.
  - 5) BENCH SHALL BE DUMOR BENCH 34" OR APPROVED EQUAL. COLOR TO BE DETERMINED BY OWNER.



- NOTES
- 1) ALL STL MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED WITH POLYESTER POWDER COATING COLOR TO BE DETERMINED BY OWNER.
  - 2) 1/2" X 3 3/4" EXPANSION ANCHOR BOLTS PROVIDED FOR S-2
  - 3) WOOD TO BE - IPE S4S EE
  - 4) TRASH RECEPTACLE TO BE DUMOR RECEPTACLE 41 WITH COVER OR APPROVED EQUAL.

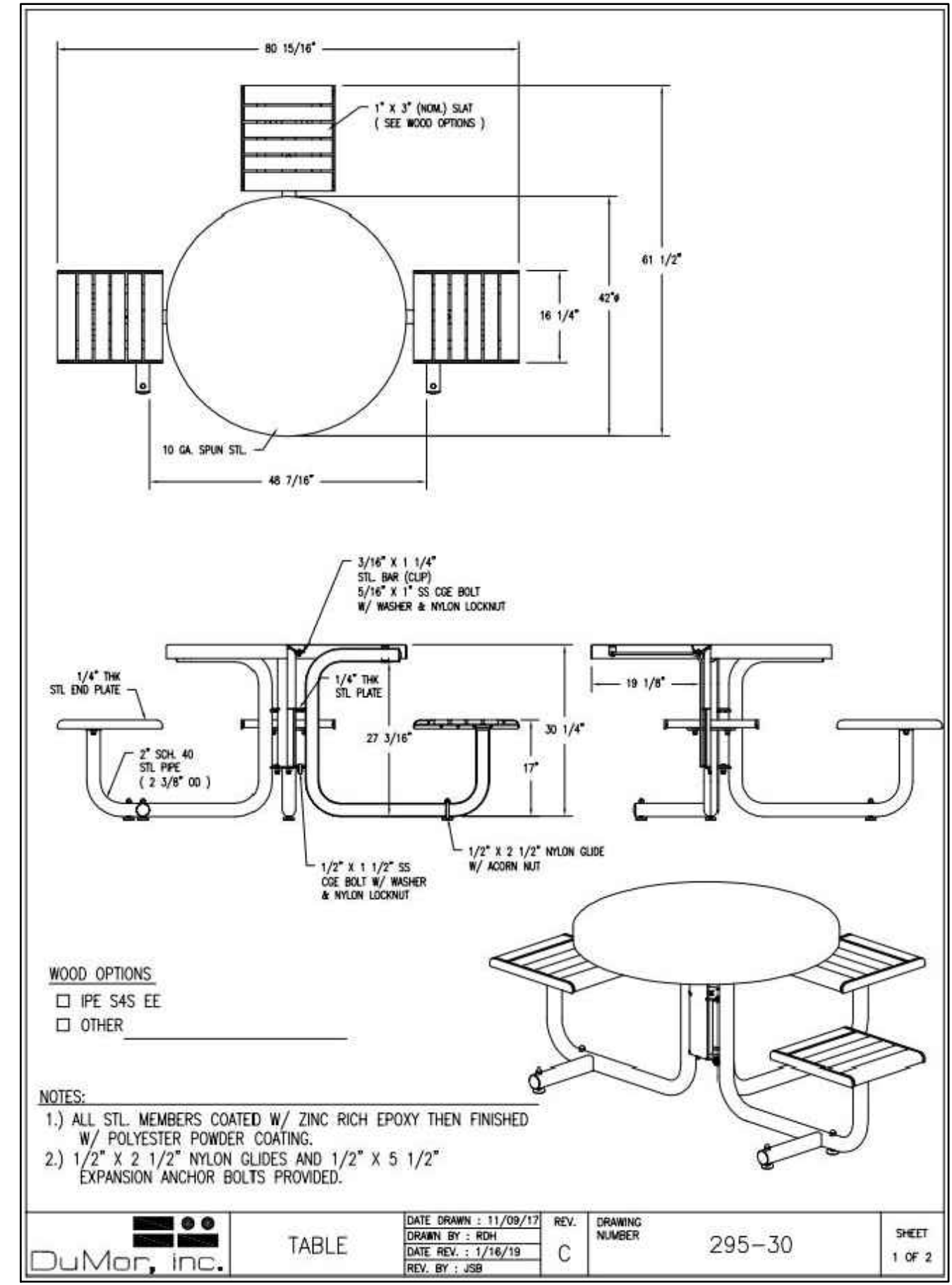
**TRASH RECEPTACLE WITH COVER**  
N.T.S.

**GRANITE STEPS AND HANDRAIL**  
N.T.S.



- NOTE:
1. FENCE PANELS WILL BE POWDER COATED BLACK. FENCE POSTS WILL BE POWDER COATED BLACK. ALL HARDWARE WILL BE BLACK.
  2. FENCING IS AS PRODUCED BY AMERISTAR FENCE STYLE ECHOLON PLUS MAJESTIC 3-RAIL PANEL 4 FT HEIGHT, OR APPROVED EQUAL.

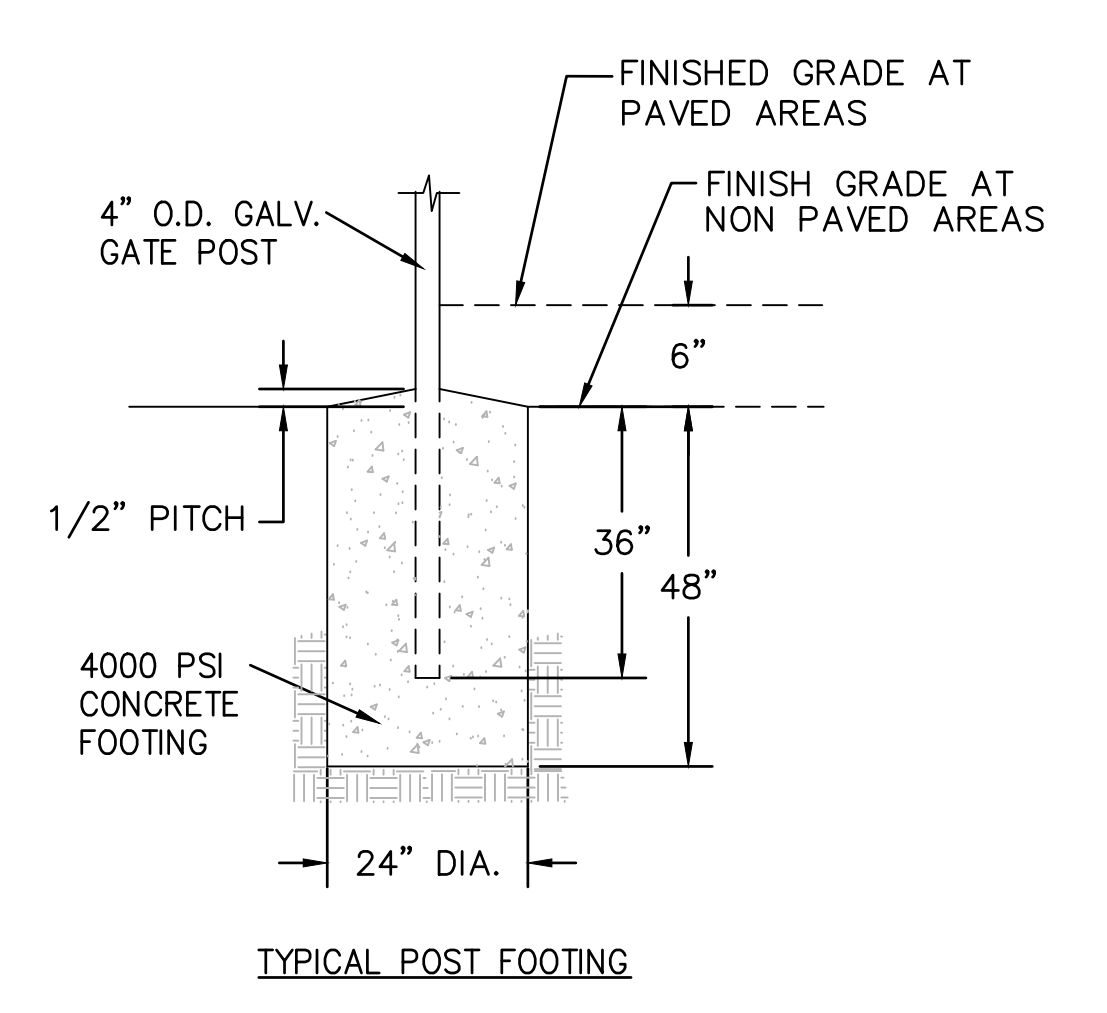
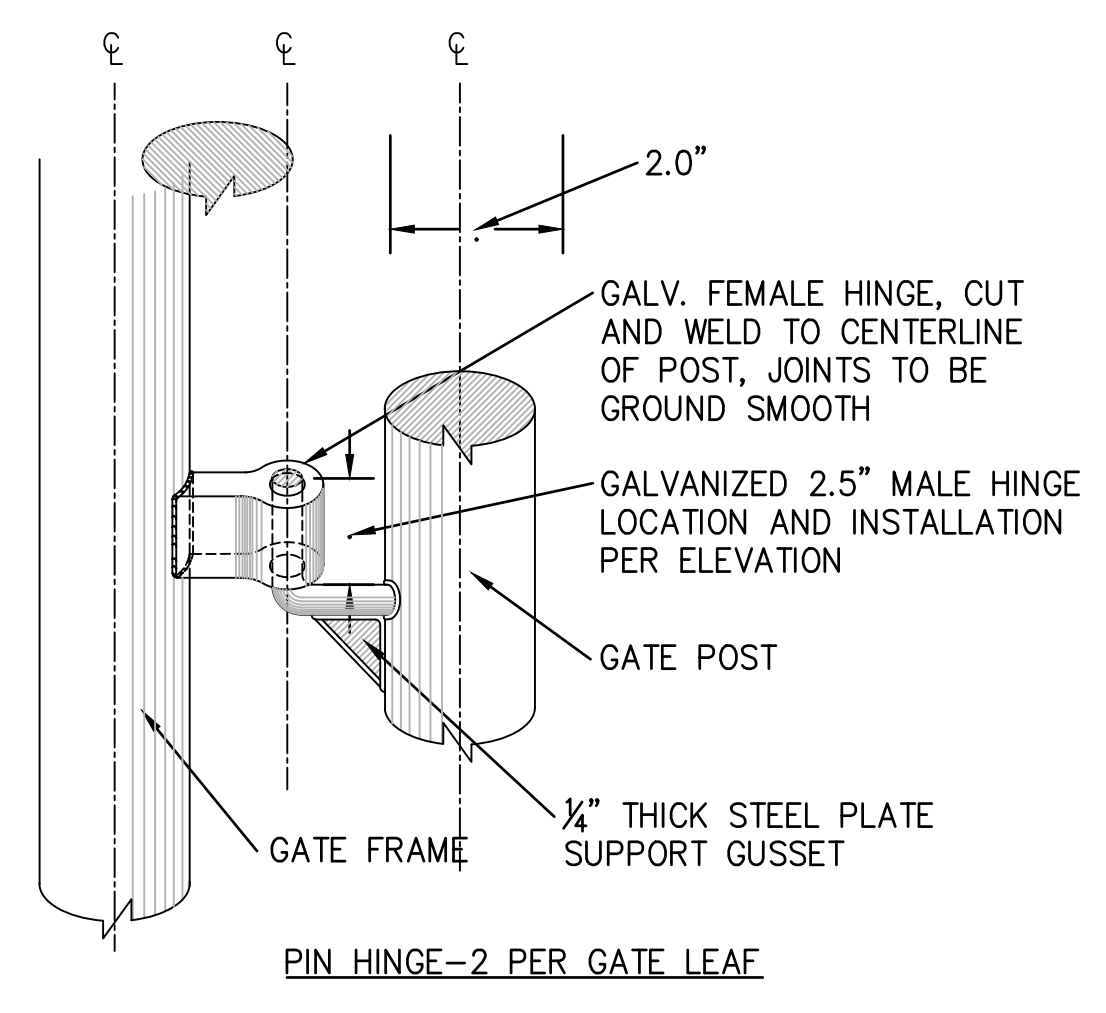
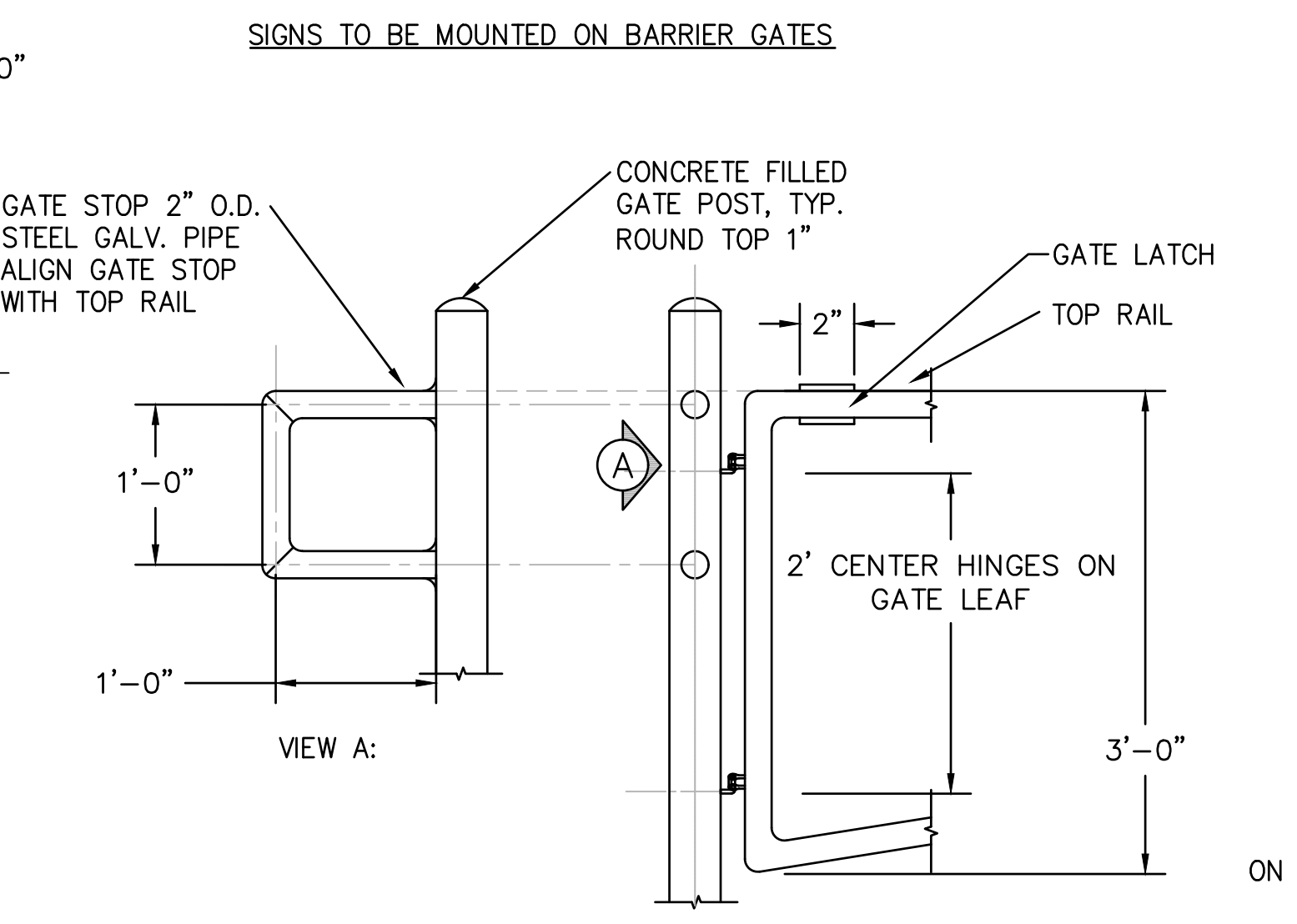
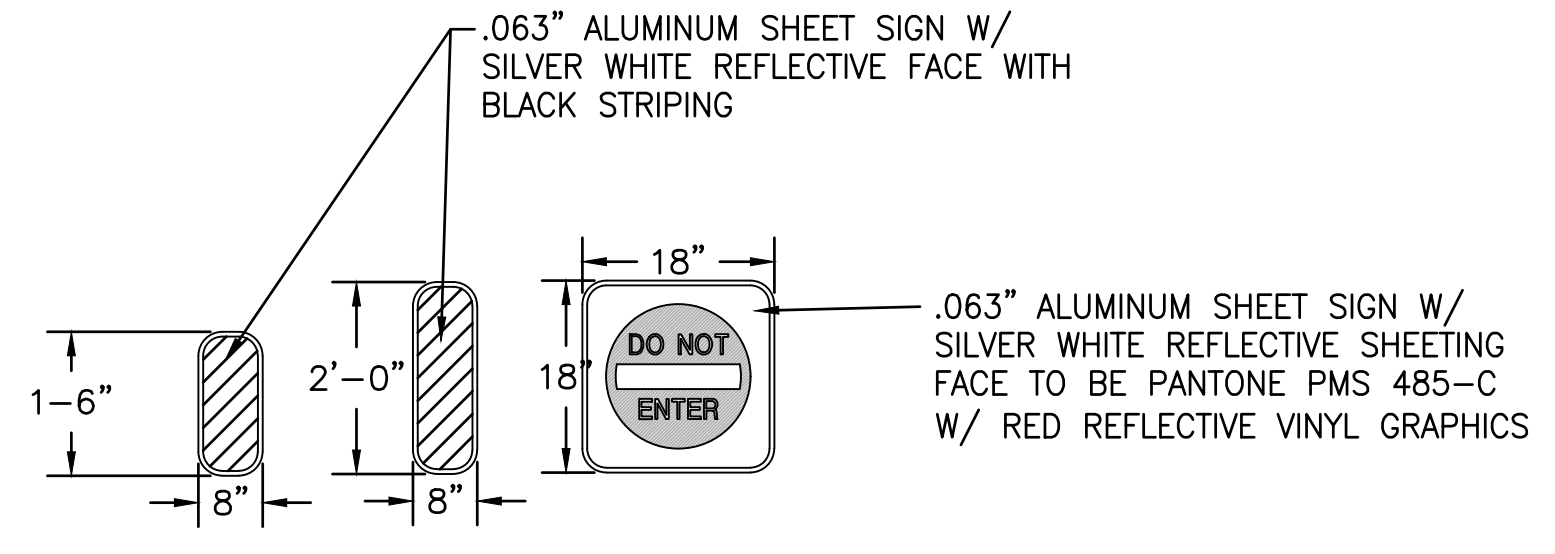
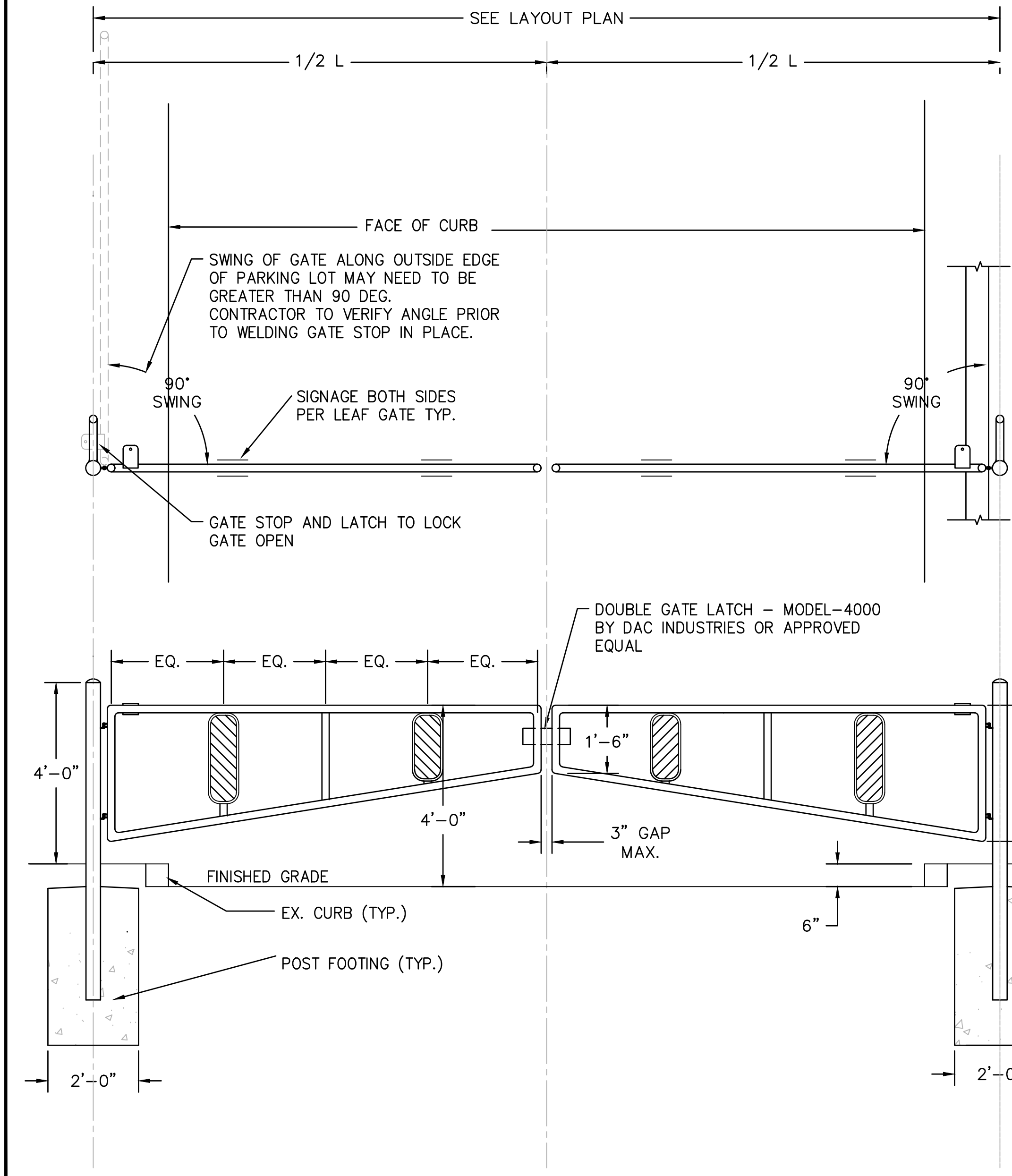
**4' DECORATIVE FENCE ON CONCRETE WALL**  
N.T.S.



NOTES:  
1. INSTALLATION PER MANUFACTURER'S SPECIFICATIONS.

**ADA ACCESSIBLE PICNIC TABLE**

N.T.S.  
MANUFACTURER: Du Mor (OR APPROVED EQUAL)  
PRODUCT: 3 ADA ACCESSIBLE PICNIC TABLE 295-30  
COLOR: TO BE SELECTED BY OWNER/OWNER'S REPRESENTATIVE  
WOOD OPTION: IPE S4S EE



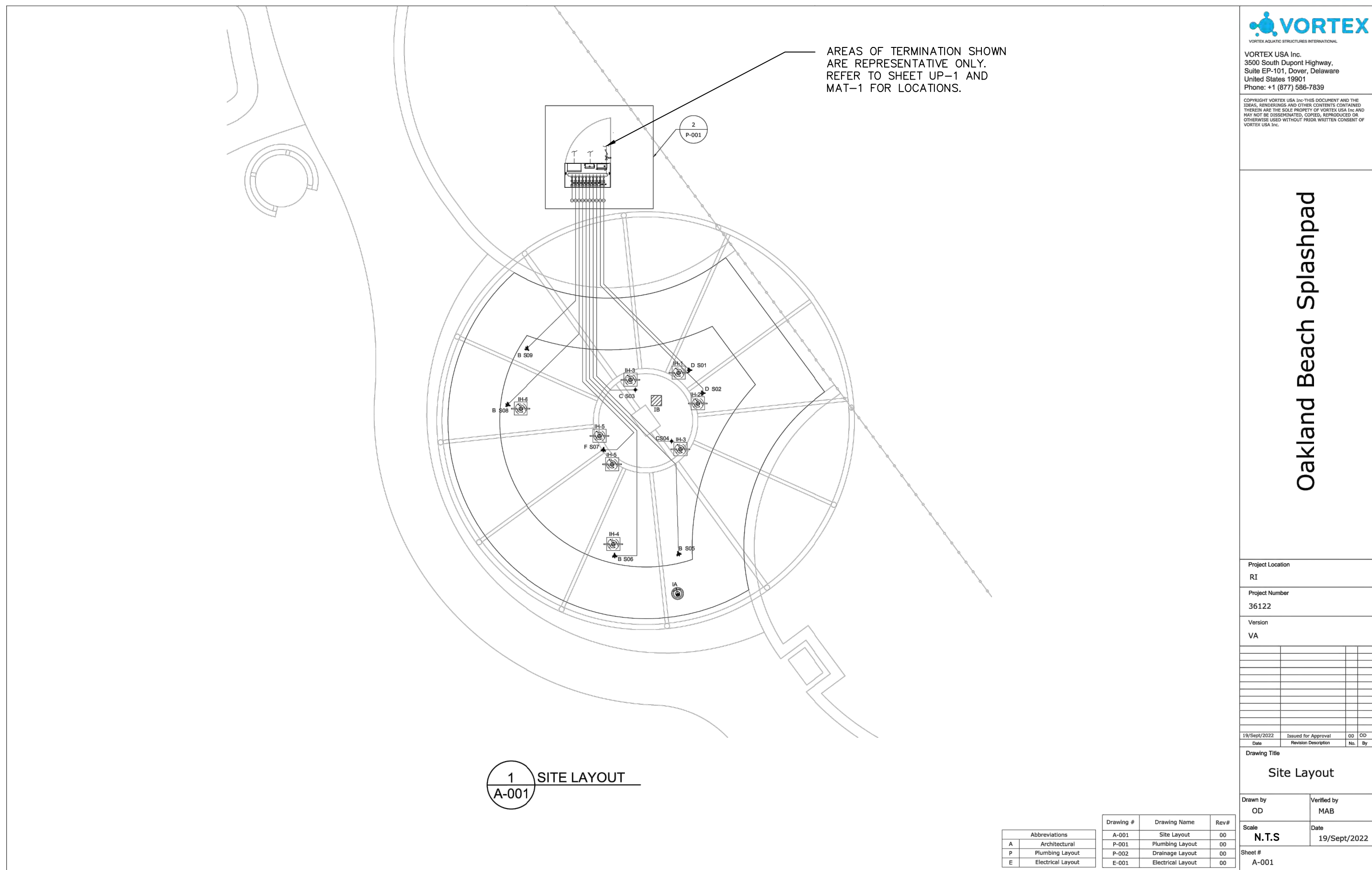
ENLARGEMENT: TYP. GATE POST WITH GATE STOP (2)

**VEHICULAR GATE**  
N.T.S.

4/14/2023, JMWELER, CAL00802, VAP02100515, DUN0210051501, DWG0210051501

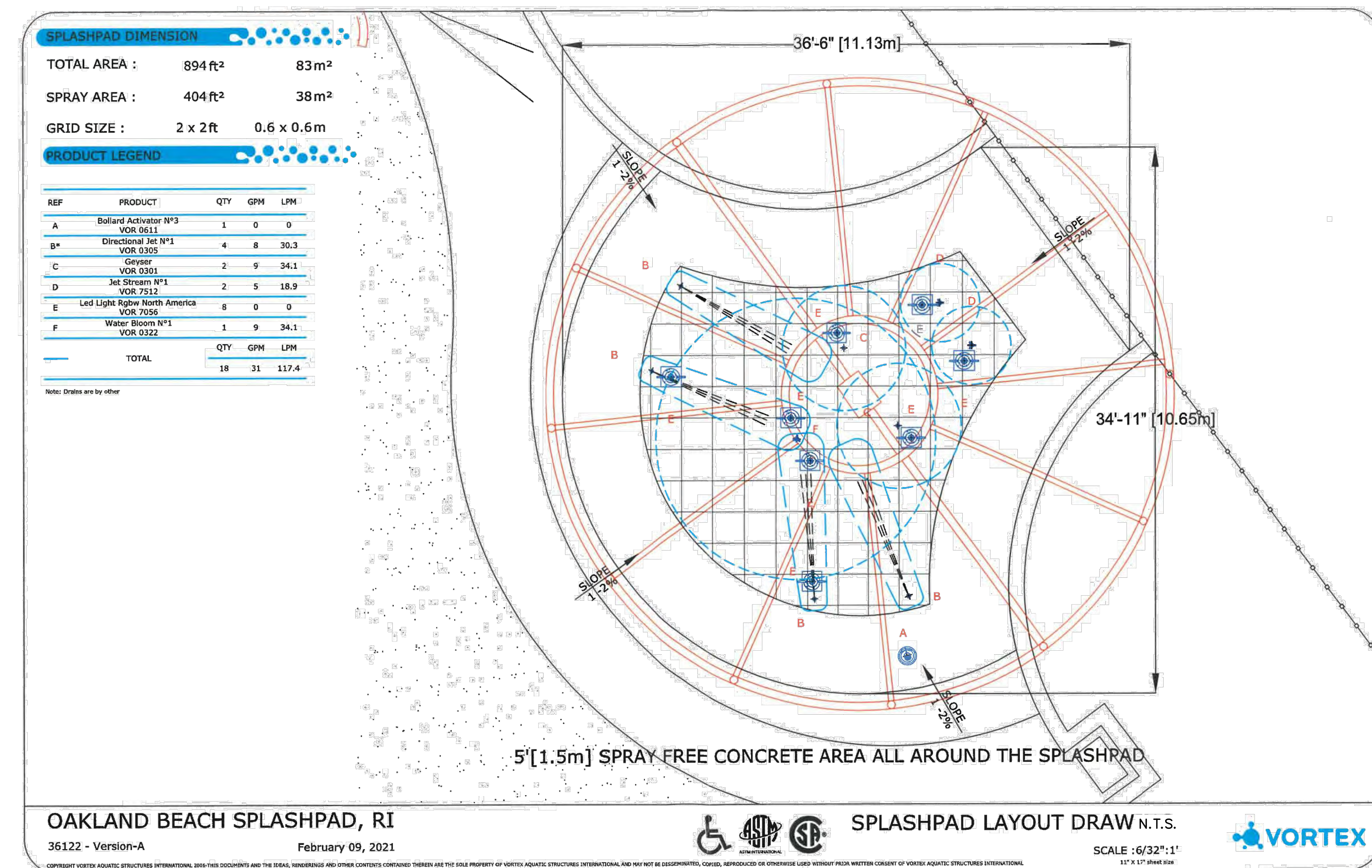
Sheet No.: #80210051501

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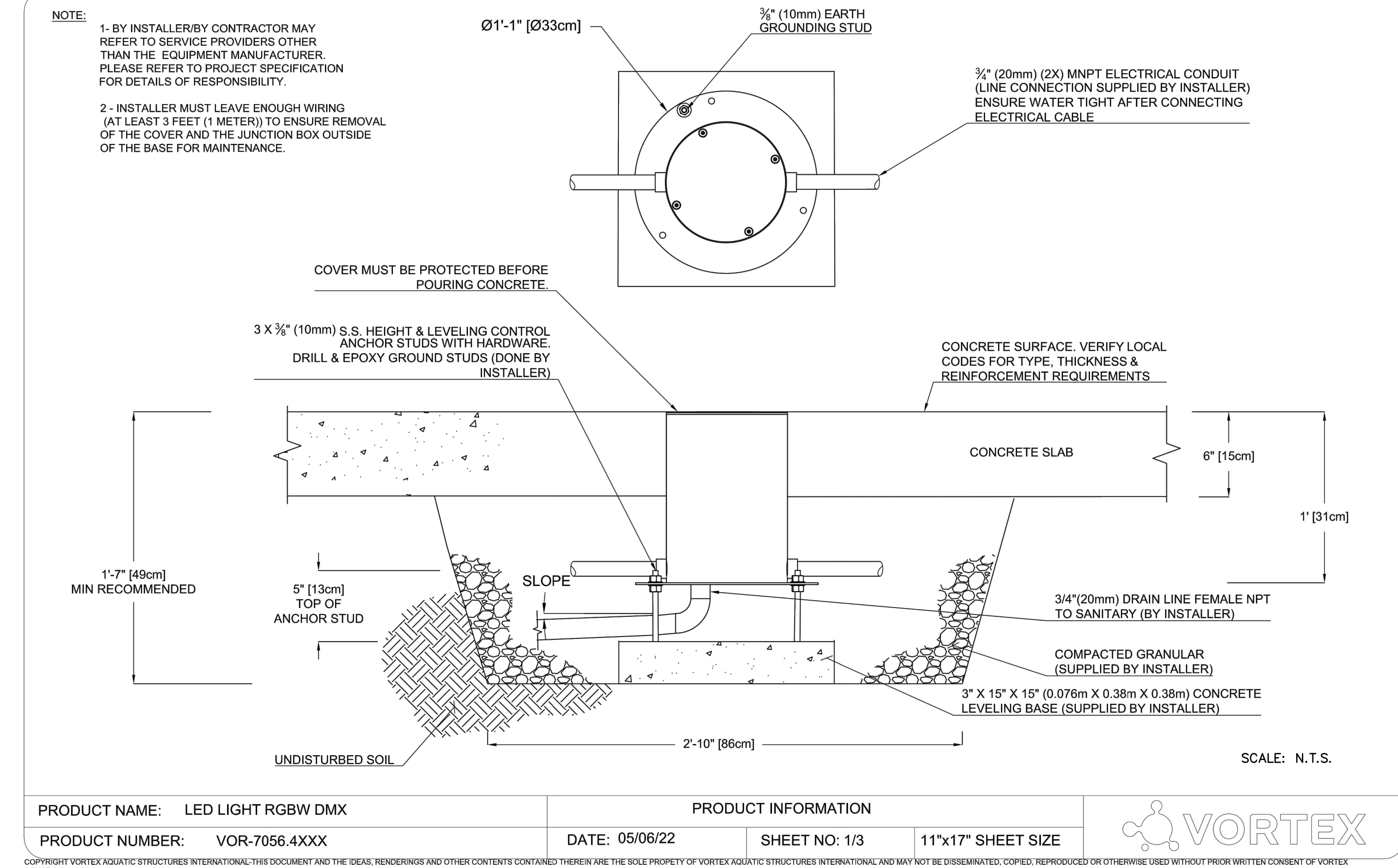
### SPLASHPAD SITE LAYOUT

N.T.S.



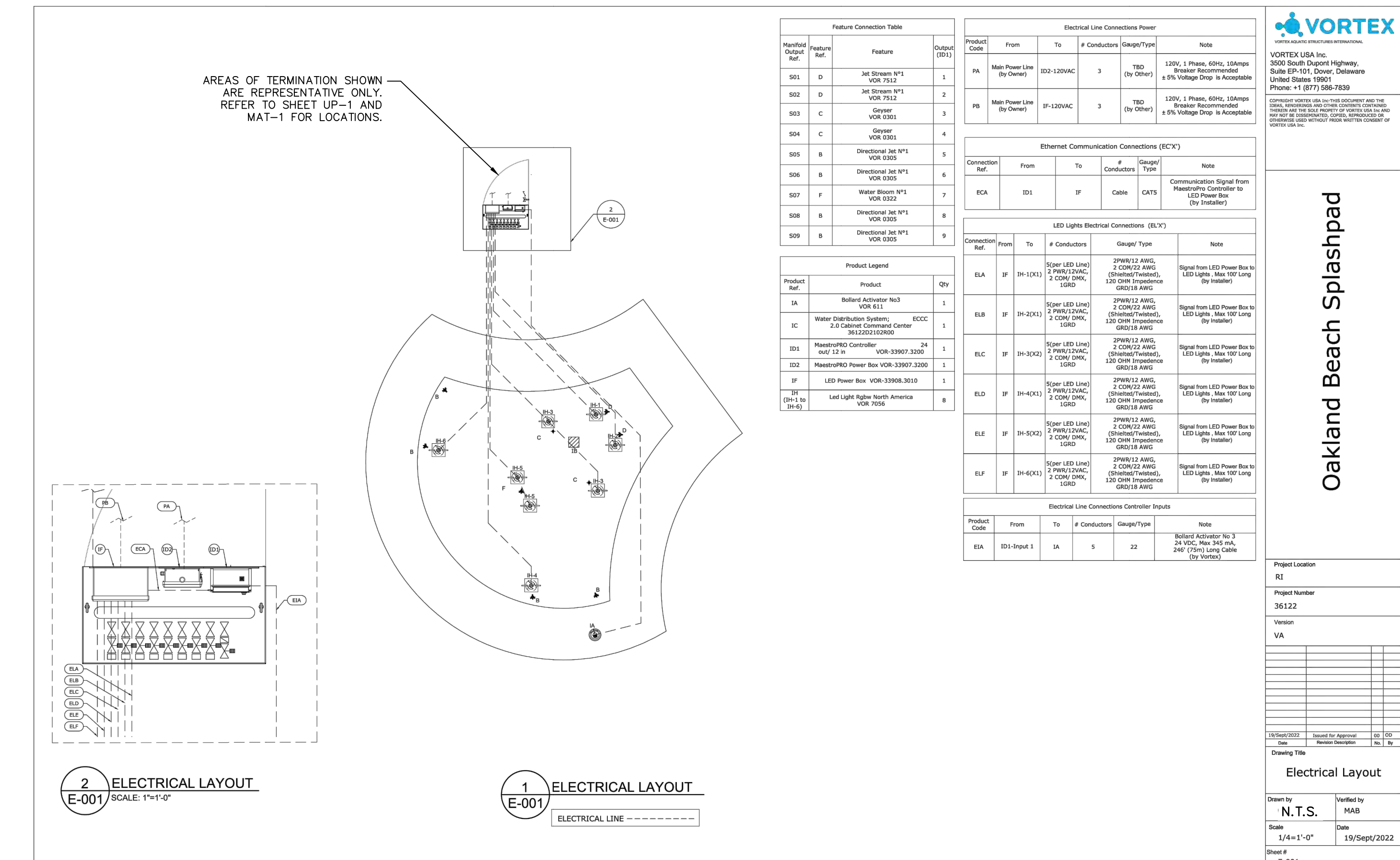
### SPLASHPAD LED LIGHTING LAYOUT

N.T.S.



### SPLASHPAD LED LIGHTING INSTALLATION

N.T.S.



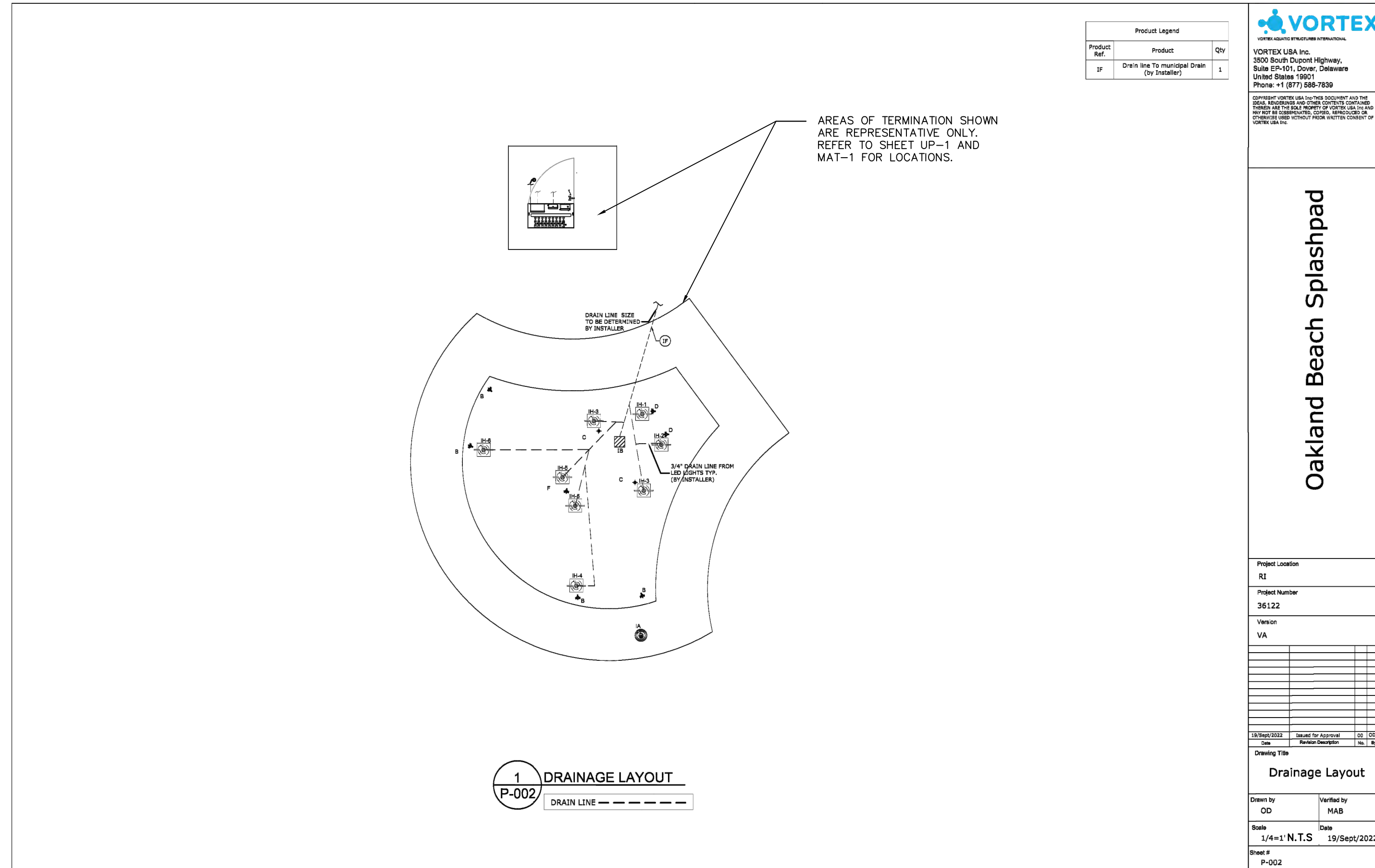
### SPLASHPAD ELECTRICAL LAYOUT

N.T.S.

4/14/2023, 10:46:52 AM, C:\Users\jwheeler\OneDrive\Documents\210051501\DWG\DN-6.dwg

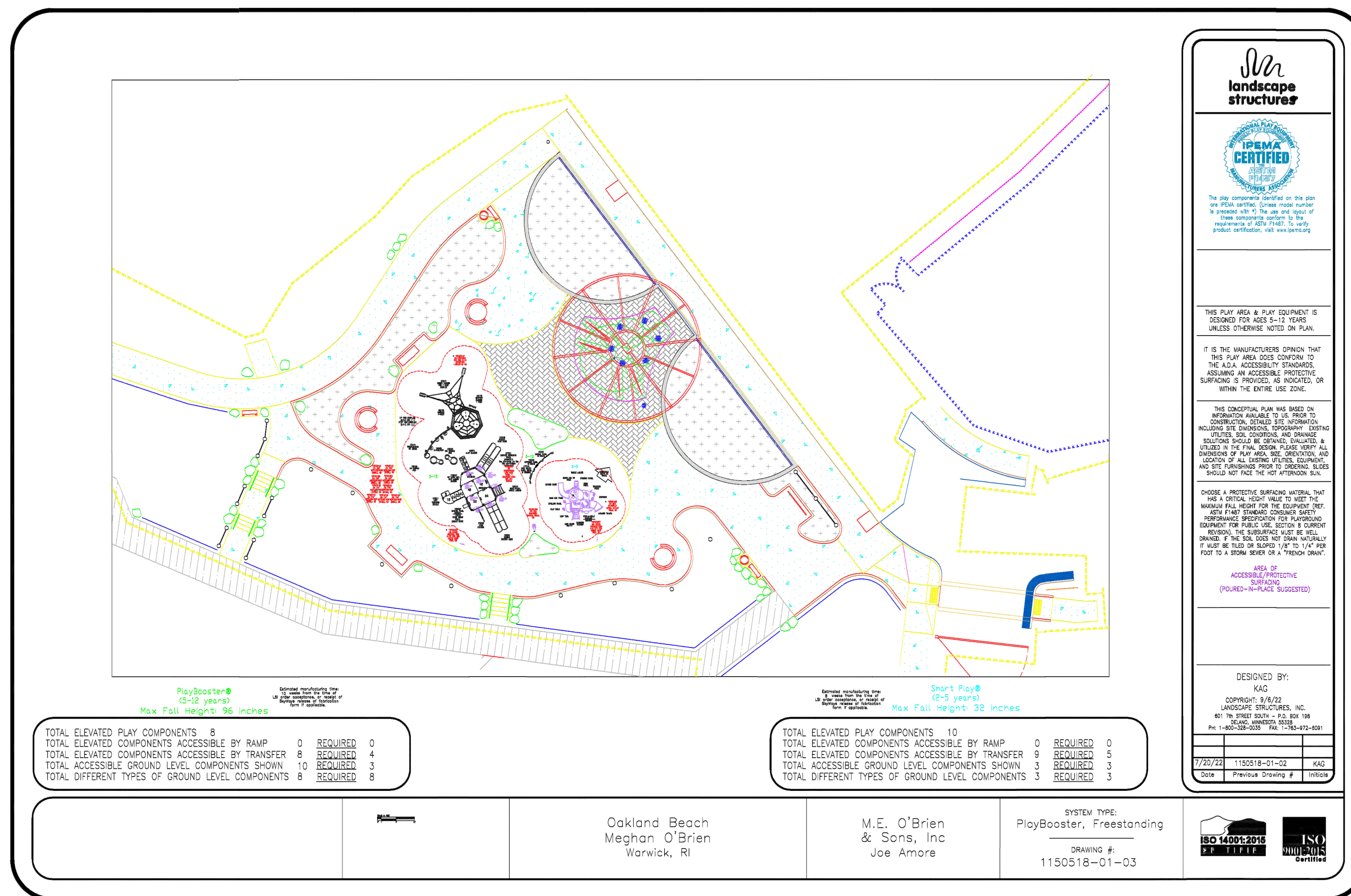
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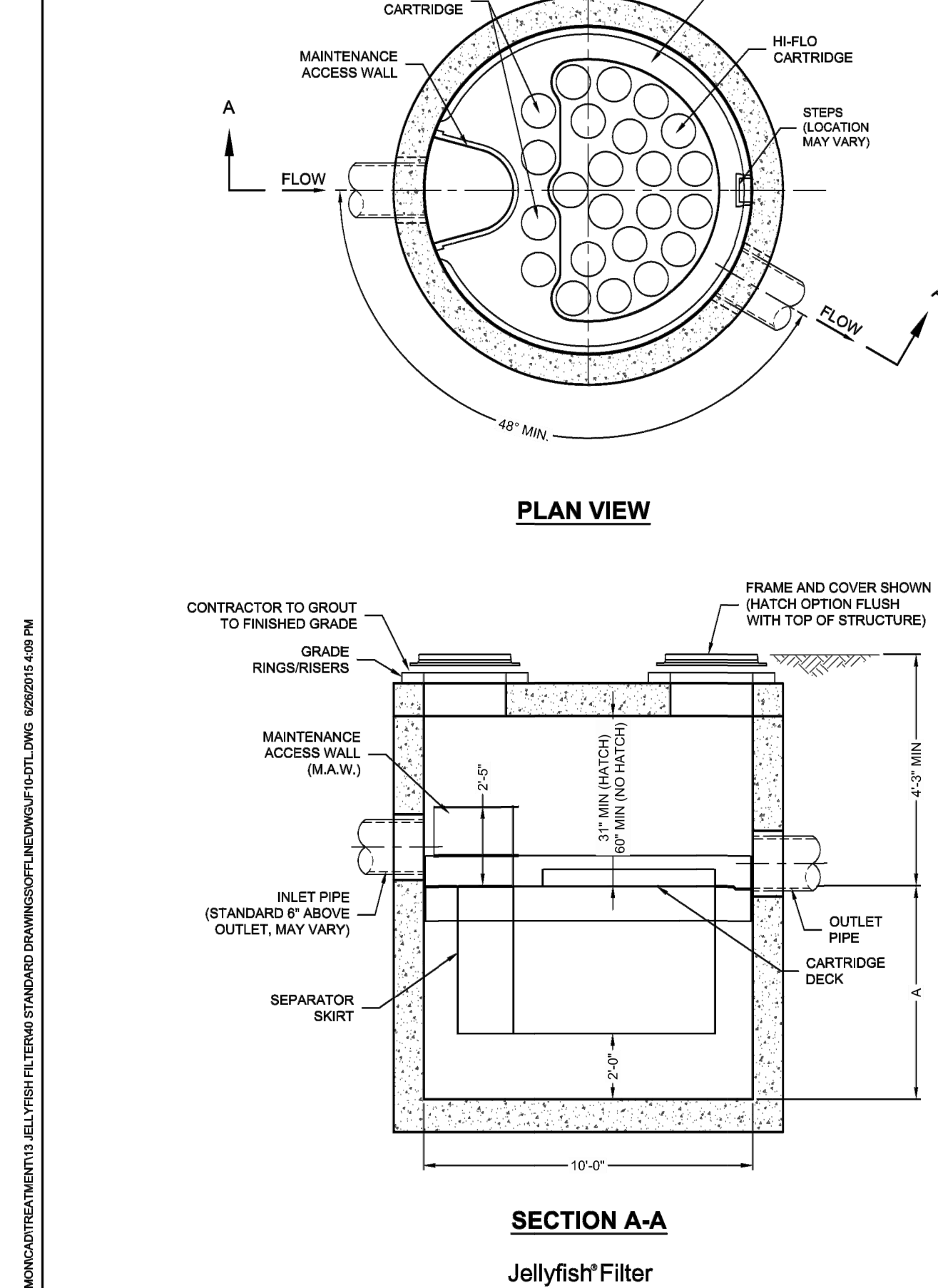
**SPLASHPAD DRAINAGE LAYOUT**

N.T.S.



**PLAYGROUND LAYOUT**

N.T.S.



**HYDRODYNAMIC SEPARATOR**

N.T.S.

**JELLYFISH DESIGN NOTES**

JELLYFISH TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. THE STANDARD MANHOLE STYLE IS SHOWN. Ø120" MANHOLE JELLYFISH PEAK TREATMENT CAPACITY IS 3.74 CFS. IF THE SITE CONDITIONS EXCEED 3.74 CFS AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

CARTRIDGE DEPTH	54"	40"	27"	15"
OUTLET INVERT TO STRUCTURE INVERT (A)	6'-5"	5'-3"	4'-2"	3'-2"
FLOW RATE HIGH-FLO / DRAINDOWN (cfs) (per cart)	0.18 / 0.09	0.13 / 0.065	0.09 / 0.045	0.05 / 0.025
MAX. CARTS HIGH-FLO / DRAINDOWN	19 / 4			

**CARTRIDGE SELECTION**

PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE #1	*	*	*
INLET PIPE #2	*	*	*
OUTLET PIPE	*	*	*

**FRAME AND COVER**  
(DIAMETER VARIES)  
N.T.S.

**HATCH**  
(84" x 102" WITH SLAB)  
N.T.S.

**SITE SPECIFIC DATA REQUIREMENTS**

STRUCTURE ID	*
WATER QUALITY FLOW RATE (cfs)	*
PEAK FLOW RATE (cfs)	*
RETURN PERIOD OF PEAK FLOW (hrs)	*
# OF CARTRIDGES REQUIRED (HF / DD)	* / *
CARTRIDGE SIZE	*

**GENERAL NOTES**

- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS REPRESENTATIVE. www.contechES.com
- JELLYFISH WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
- STRUCTURE SHALL MEET ASHTO M30 OR PER APPROVING JURISDICTION REQUIREMENTS, WHICHEVER IS MORE STRINGENT, ASSUMING EARTH COVER OF 0' - 3'. AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET ASHTO M309 LOAD RATING AND BE CAST WITH THE CONTECH LOGO.
- STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND ASHTO LOAD FACTOR DESIGN METHOD.
- NO PRODUCT SUBSTITUTIONS SHALL BE ACCEPTED UNLESS SUBMITTED 10 DAYS PRIOR TO PROJECT BID DATE, OR AS DIRECTED BY THE ENGINEER OF RECORD.

**INSTALLATION NOTES**

- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE (LIFTING CLUTCHES PROVIDED).
- CONTRACTOR WILL INSTALL AND LEVEL THE STRUCTURE, SEALING THE JOINTS, LINE ENTRY AND EXIT POINTS (NON-SHRINK GROUT WITH APPROVED WATERTIGHT OR FLEXIBLE BOOT).
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.
- CARTRIDGE INSTALLATION, BY CONTECH, SHALL OCCUR ONLY AFTER SITE HAS BEEN STABILIZED AND THE JELLYFISH UNIT IS CLEAN AND FREE OF DEBRIS. CONTACT CONTECH TO COORDINATE CARTRIDGE INSTALLATION WITH SITE STABILIZATION AT (866) 740-3318.

**CONTECH ENGINEERED SOLUTIONS LLC**  
www.contechES.com  
9228 Centre Pointe Dr., Suite 400, West Chester, OH 45380  
800-338-1122 513-845-7000 513-845-7993 FAX

**JELLYFISH JF10 STANDARD DETAIL OFFLINE CONFIGURATION**

**OAKLAND BEACH PLAYGROUND AND SPLASHPAD**  
OAKLAND BEACH AVENUE  
WARWICK, RHODE ISLAND

REVISIONS

No.	Date	Desc.

Designed: J.W.  
Drawn: J.W.  
Reviewed: D.C.  
Scale: N.T.S.  
Project No.: 2100515  
Date: June 2023  
CAD File: DN210051501

**SITE DETAILS**

Sheet No.

**DN-7**

OAKLAND BEACH PLAYGROUND AND SPLASHPAD  
OAKLAND BEACH AVENUE  
WARWICK, RHODE ISLAND

REVISIONS  
DESCRIPTION

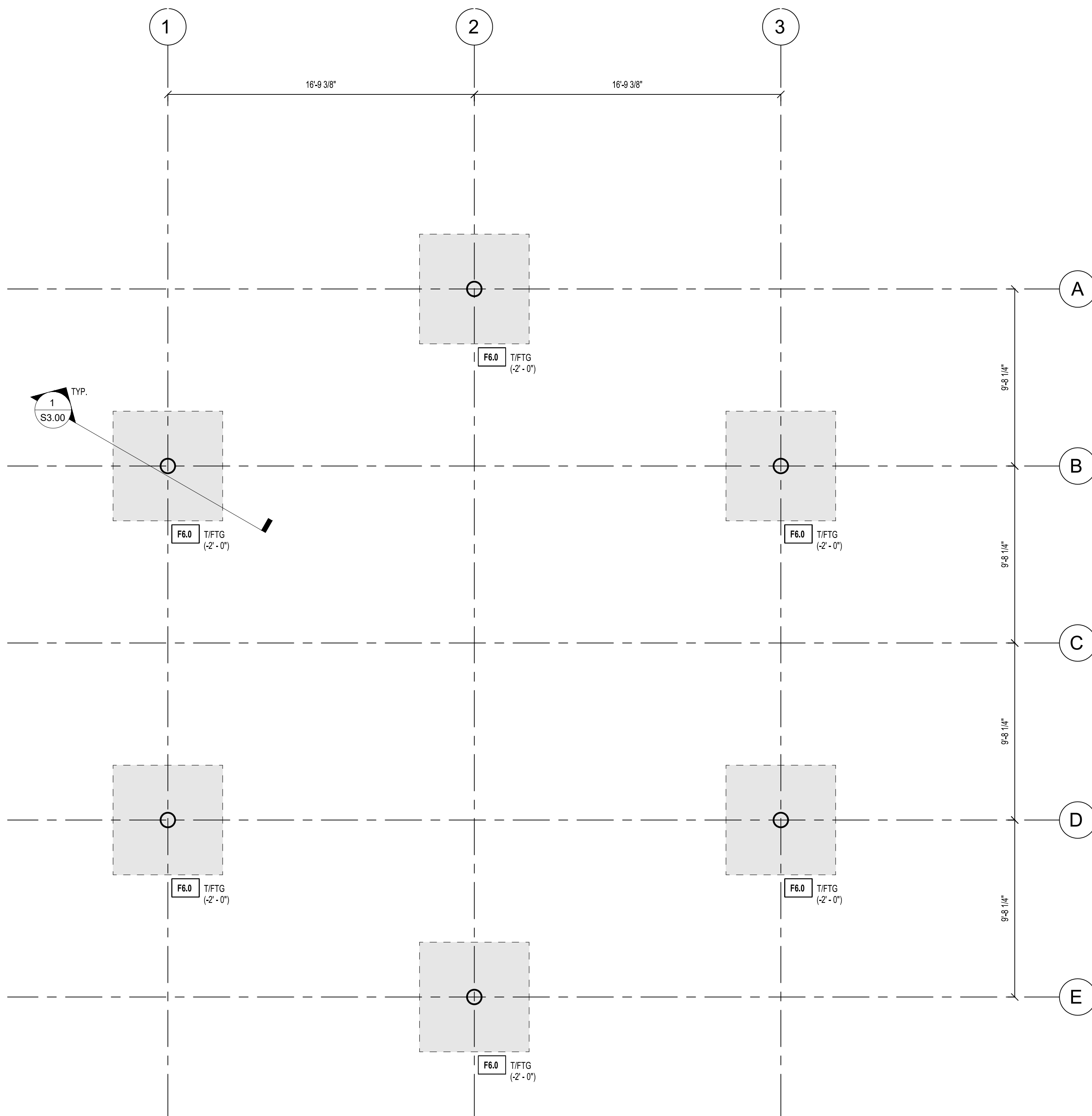
NO  
DATE

Designed: CA/BS  
Drawn: BS  
Reviewed: CA  
Scale: As indicated  
Project No.: 2100515  
Date: May 2023

Title:  
**STRUCTURAL  
FOUNDATION  
AND FRAMING  
PLAN**

Sheet No.

**SD-1**

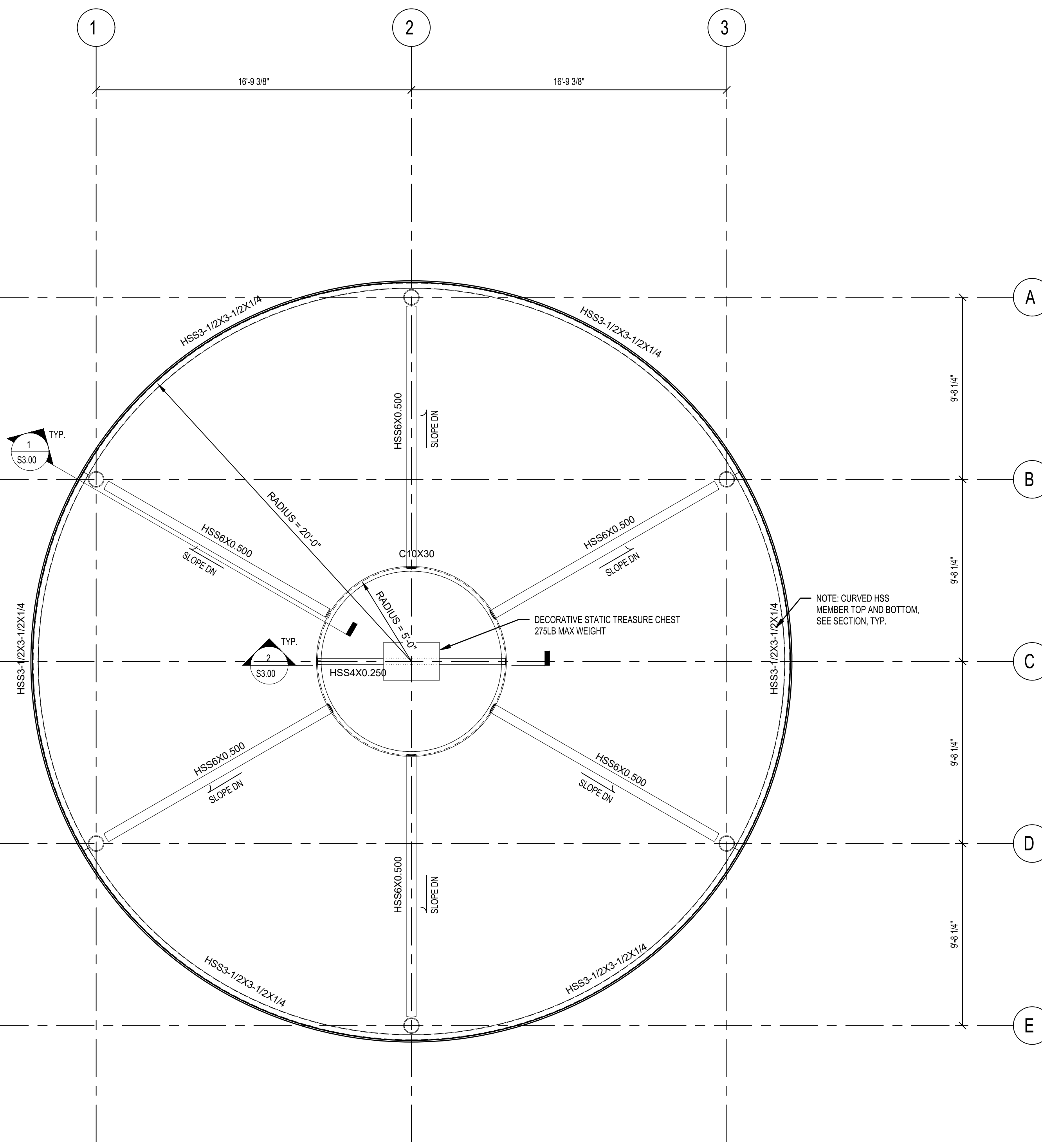


**1 FOUNDATION PLAN**  
1/4" = 1'-0"

- FOUNDATION NOTES:**
- COORDINATE SLAB ON GRADE THICKNESS, REINFORCING, AND SLOPE WITH SITE DRAWINGS. TOP OF SLAB ON GRADE = 0'-0" DATUM.
  - T/FTG. [-F-#"] INDICATES DISTANCE BELOW DATUM ELEVATION.
  - COORDINATE UNDERSLAB DRAINAGE, CONDUITS, AND MEP REQUIREMENTS WITH CIVIL AND MECHANICAL DRAWINGS.
  - FX DENOTES FOOTING TYPE. SEE FOOTING SCHEDULE FOR SIZE AND REINFORCING.
  - CX DENOTES COLUMN TYPE. SEE COLUMN SCHEDULE FOR SIZE.
  - SEE GEOTECHNICAL REPORT FOR CONCRETE SLAB-ON-GRADE AND FOUNDATION SUBGRADE PREPARATION RECOMMENDATIONS AND REQUIREMENTS.

COLUMN SCHEDULE	
COLUMN MARK	COLUMN SIZE
C1	HSS10X0.500

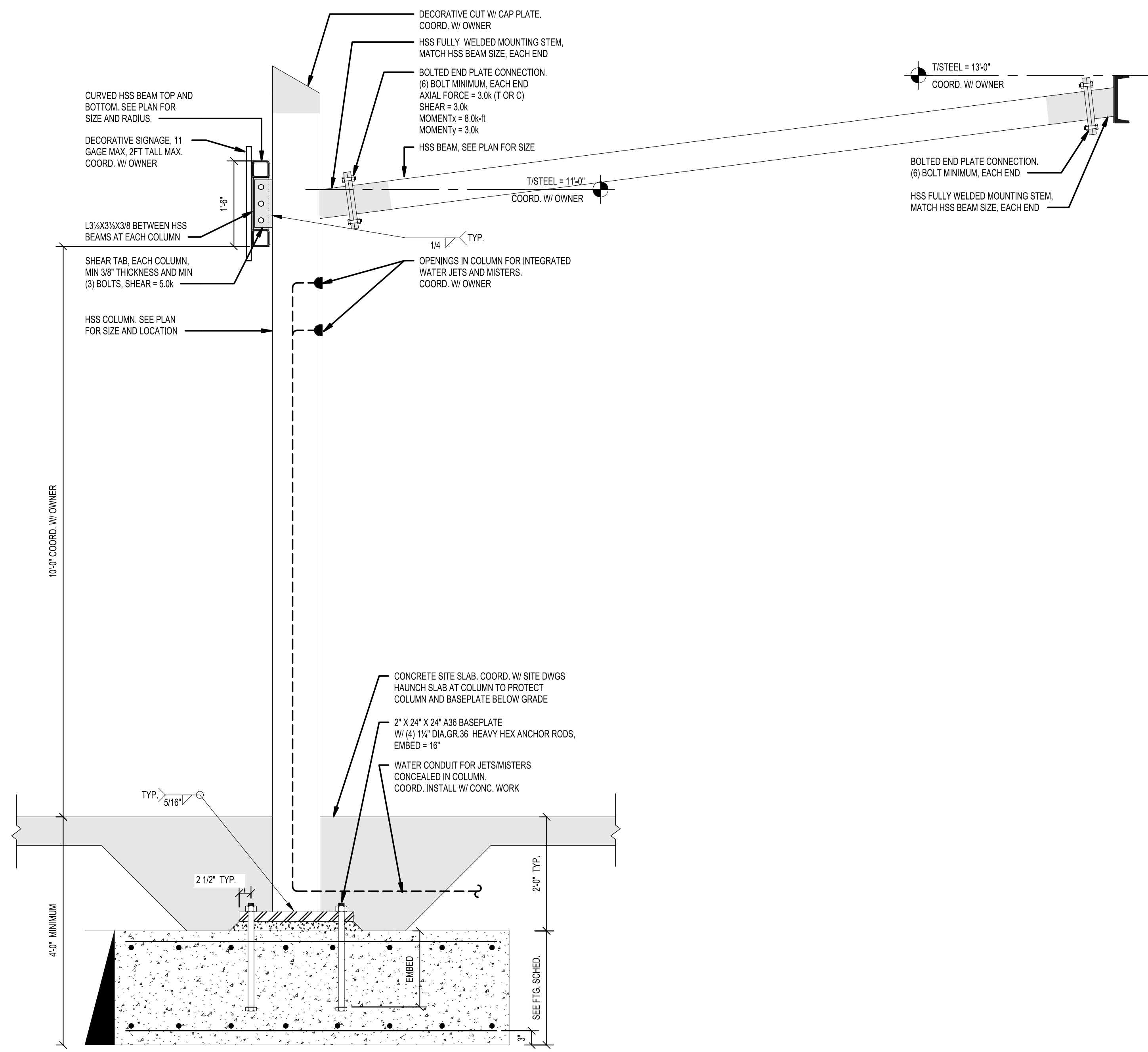
FOOTING SCHEDULE		
FOOTING MARK	SIZE (LxWxH)	REINFORCING (BOTTOM, U.N.O.)
F6.0	F6 - 6' x 6' x 2'-0"	(8) #6 BARS EACH WAY TOP AND BOTTOM



**1 FRAMING PLAN**  
1/4" = 1'-0"

- FRAMING PLAN NOTES:**
- SEE SECTIONS FOR ELEVATIONS. COORDINATE/VERIFY ELEVATIONS WITH OWNER.
  - COORDINATE OPENINGS AND LOCATIONS OF WATER JETS AND MISTERS WITH OWNER.
  - ALL STEEL TO BE HOT DIP GALVANIZED AND PAINTED PER OWNERS REQUIREMENTS.
  - ALL STEEL AND CONNECTIONS TO BE ARCHITECTURALLY EXPOSED STRUCTURAL STEEL.

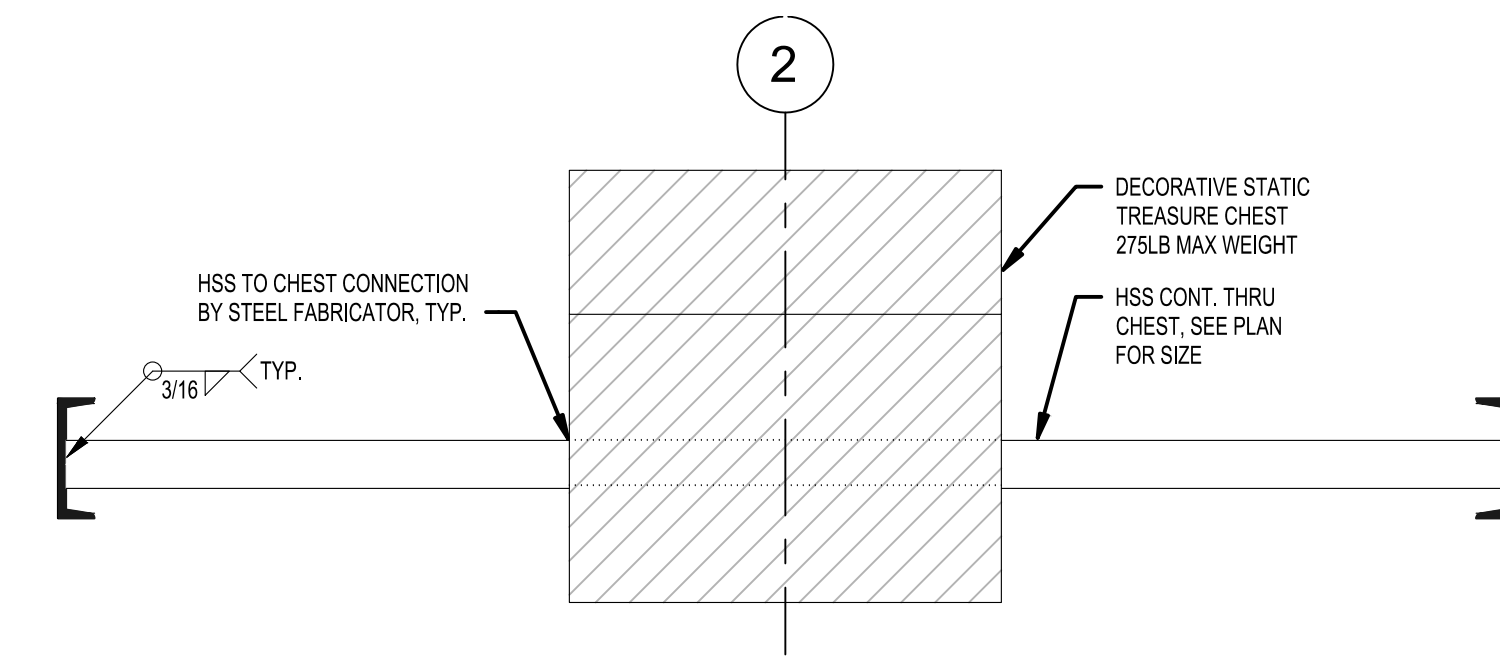
7/13/2022 5:33:59 PM .\JOBS21\04\2100515\DWG-ARCH-MODEL\2100515-Structural-R20-Central.rvt



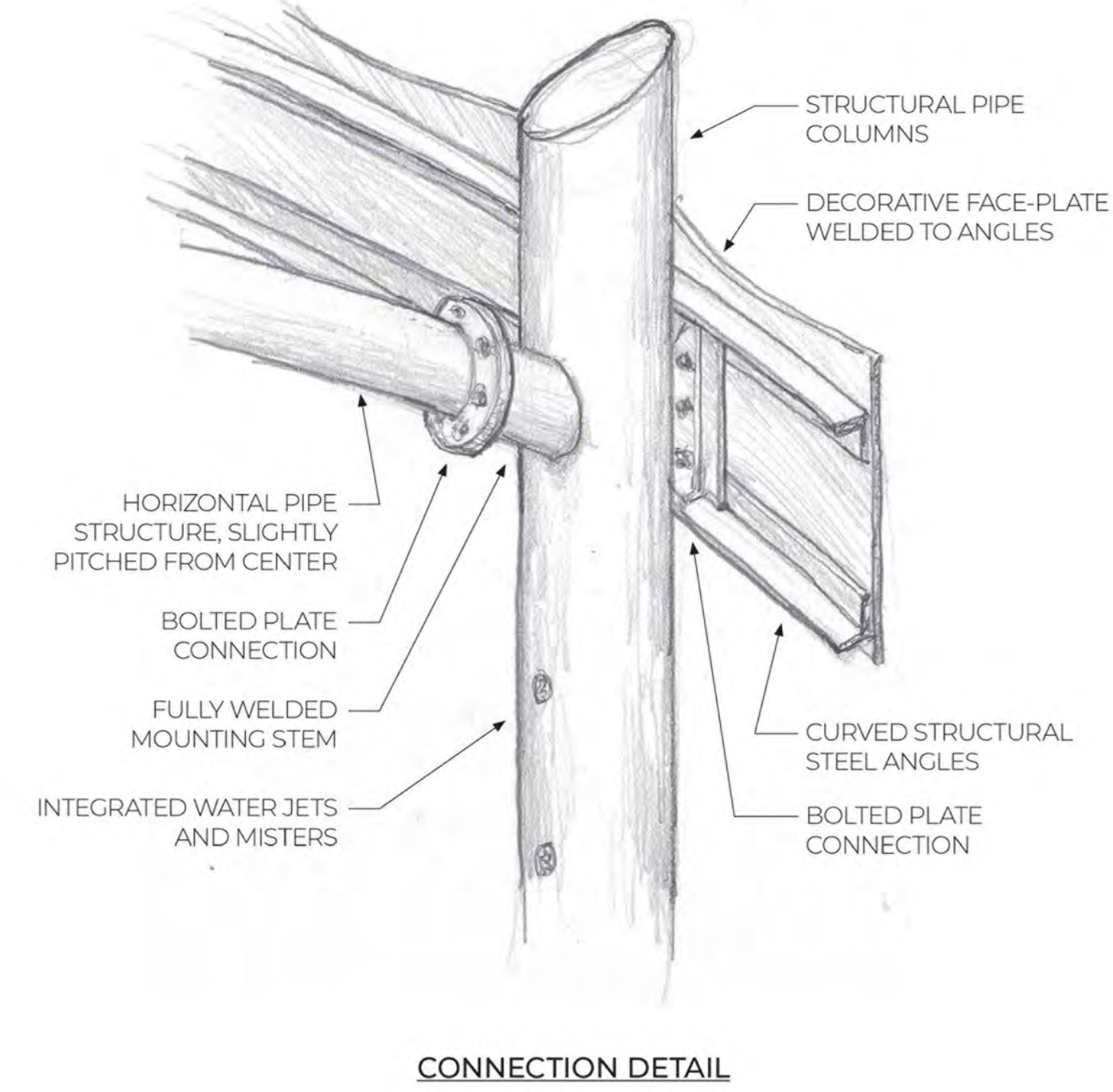
**1** TYPICAL SECTION AT OUTER AND INNER RING  
3/4" = 1'-0"

**STRUCTURAL SECTION NOTES:**

1. THE STEEL FABRICATOR SHALL DESIGN BOTH END SHEAR REACTIONS, END AXIAL REACTIONS, AND END MOMENT REACTIONS TO RESIST UNFACTORED/ASD END REACTIONS SHOWN IN SECTION.



**2** TYPICAL SECTION AT TREASURE CHEST  
3/4" = 1'-0"



**3** POST CONNECTION DETAIL  
NTS

REVISIONS	DESCRIPTION

NO	DATE

Designed:	CA/BS
Drawn:	BS
Reviewed:	CA
Scale:	3/4" = 1'-0"
Project No.:	2100515
Date:	May 2023

Title:

**STRUCTURAL SECTIONS**

Sheet No.

**SD-2**

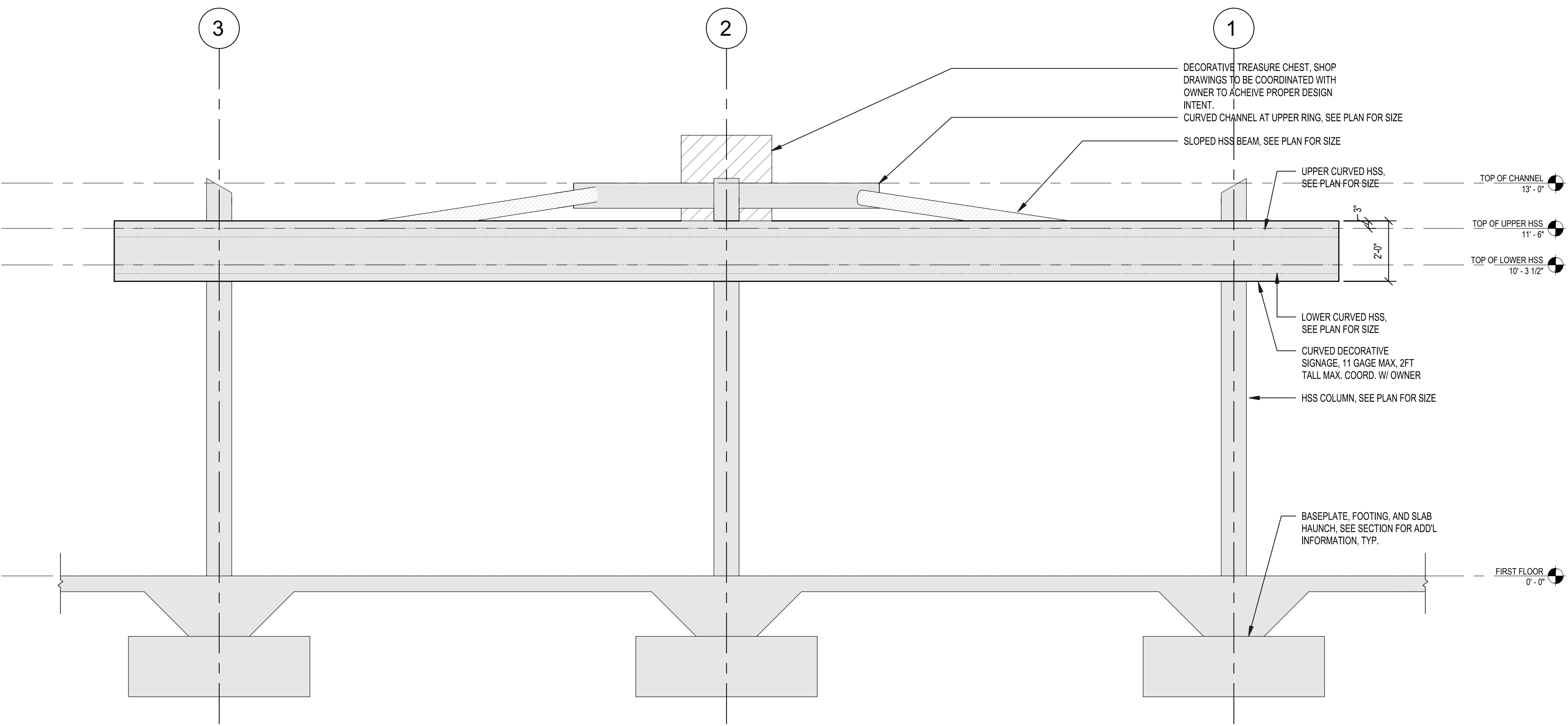
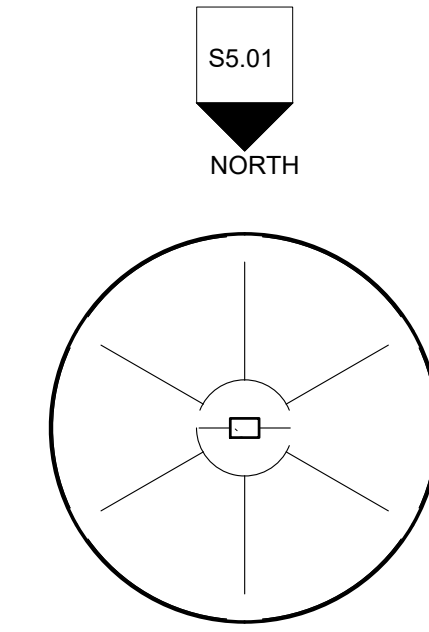
REVISIONS	DESCRIPTION
NO	DATE

Designed:	CA/BS
Drawn:	BS
Reviewed:	CA
Scale:	As indicated
Project No.:	2100515
Date:	May 2023

Title:  
**STRUCTURAL ELEVATIONS**

Sheet No.

**SD-3**



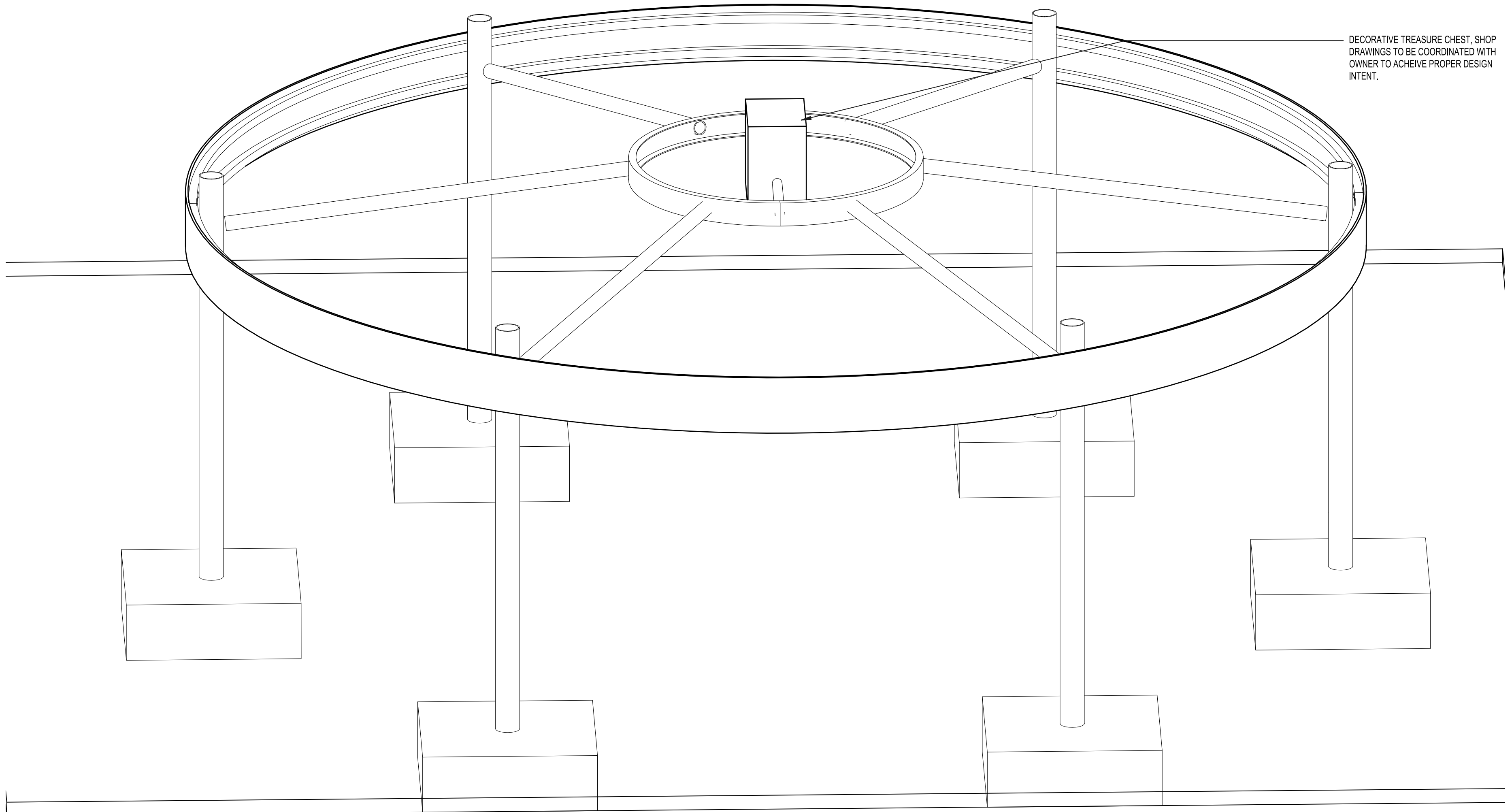
**1** TYPICAL ELEVATION VIEW  
3/8" = 1'-0"

**STRUCTURAL ELEVATION NOTES:**

- COORDINATE ELEVATIONS AND SLOPES WITH OWNER AND STEEL FABRICATOR.
- COORDINATE SLAB CONSTRUCTION WITH SITE DRAWINGS.



**3** DECORATIVE TOPPER  
NTS



**2** TYPICAL 3D PERSPECTIVE  
NTS

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# UTILITY LEGEND

SYMBOL	NAME
---	LIMIT OF DISTURBANCE/CONTRACT LIMIT LINE
---	PROPERTY LINE
▬	VEHICULAR RATED ASPHALT PAVEMENT
▬	ASPHALT WALKWAY
▬	PROPOSED CONCRETE WALKWAY
▬	PROPOSED PLAYGROUND SURFACING
▬	EXISTING BOARDWALK TO REMAIN- PROTECT DURING CONSTRUCTION
▬	RAISED PLANTER WALLS
○	LIGHTED BOLLARDS
○	BOLLARD AND CHAIN
▬	TEMPORARY SNOW PROTECTION FENCE
▬	BENCHES AND TABLES
○	TRASH RECEPTACLE
▬	BIKE RACK
○	PROPOSED LANDSCAPE BOULDERS
X	CHAIN LINK FENCE

## ELECTRICAL AND LIGHTING KEY NOTES:

- FURNISH AND INSTALL LOCKING PAD MOUNTED NEMA 3R ENCLOSURE WITH 120/240V ELECTRICAL PANEL SP1, TIMECLOCK AND EXTERNAL MOUNTED PHOTOCELL. REFER TO DRAWING UP-3 FOR SPECIFICATIONS AND THIS DRAWING FOR PANEL SCHEDULE INFORMATION.
- FURNISH AND INSTALL ELECTRICAL SERVICE BELOW GRADE (3)Ø8, (1)Ø8G, IN 1" SCH. 40 PVC BELOW GRADE AND GRC ABOVE GRADE UP UTILITY POLE WITH SLIP JOINT FITTING, FROM EXISTING UTILITY POLE TRANSFORMER TO PANEL VIA ENCLOSURE MOUNTED NEMA 3R, 60 AMP, 1 PHASE SERVICE DISCONNECT SWITCH WITH 40 AMP FUSES AND UTILITY METER. COORDINATE EXACT REQUIREMENTS WITH ELECTRIC UTILITY COMPANY.
- FURNISH AND INSTALL (1) QUAD GFI RECEPTACLE ON SIDE OF ENCLOSURE WITH LOCKABLE METALLIC IN-USE WEATHERPROOF ENCLOSURE. WIRE EACH DUPLEX RECEPTACLE TO A DEDICATED 20A, 1P CIRCUIT BREAKER IN PANEL WITH (2)Ø12, (1)Ø12G.
- FURNISH AND INSTALL (2) DEDICATED CIRCUITS FROM SPLASH PAD CONTROL PANEL (D2) MAESTROPRO POWER BOX AND (F) LED POWER BOX, TO DEDICATED 15A, 1P CIRCUIT BREAKER IN PANEL SP1 WITH (2)Ø12, (1)Ø12 G. IN 1" SCH. 40 PVC BELOW GRADE. COORDINATE EXACT LOCATION OF CONTROL PANEL AND TERMINATION REQUIREMENTS WITH SPLASH PAD CONTROL PANEL INSTALLER.
- FURNISH AND INSTALL LED PILING LIGHT FIXTURE TO TOP OF PILING, ADJACENT FLUSH IN-GRADE QUAZITE BOX WITH IP-67 OUTDOOR WET LOCATION RATED LED DRIVER, SIZE AS REQUIRED PER SIZE AND QUANTITY OF FIXTURES AT EACH LOCATION, AND WIRE TO 20A, 1P CIRCUIT BREAKER IN PANEL SP1 VIA TIMECLOCK AND PHOTOCELL FOR CONTROL WITH (2)Ø10, (1)Ø10 G. IN 1" SCH. 40 PVC BELOW GRADE. PROGRAM TIMECLOCK PER TOWN REQUIREMENTS. FURNISH AND INSTALL LOW VOLTAGE WIRING (2)Ø12, (1)Ø12G. IN 3/4" GRC FROM HANDHOLE UP SIDE OF PILING TO LIGHT FIXTURE.
- FURNISH AND INSTALL SCH 40 PVC BELOW GRADE TO SPLASH PAD LIGHTING FROM CONTROL PANEL FOR LOW VOLTAGE CONTROL WIRING BY SPLASH PAD INSTALLER. VERIFY AND COORDINATE INSTALL AND SIZE REQUIREMENTS WITH SPLASH PAD INSTALLER.
- FURNISH AND INSTALL SINGLE POLE DISCONNECT SWITCH IN HOTBOX FOR HEATER WITH DEDICATED CIRCUIT TO 15A, 1P CIRCUIT BREAKER IN PANEL SP1 WITH (2)Ø12, (1)Ø12 G. IN 1" SCH. 40 PVC BELOW GRADE. COORDINATE EXACT LOCATION OF HOTBOX AND TERMINATION REQUIREMENTS WITH INSTALLER.

CIRCUIT BREAKER				LOAD DESCRIPTION				CIRCUIT BREAKER			
POS.	AMP	POLES		KVA	PHASE	PHASE	KVA	LOAD DESCRIPTION	POLES	AMP	POS.
1	15	1	LIGHTS - SPLASH PAD CTRL	0.96	1.1		0.18	RECTP - SIDE OF ENCLOSURE	1	20	2
3	15	1	PUMPS - SPLASH PAD CTRL	0.96		1.1	0.18	RECTP - SIDE OF ENCLOSURE	1	20	4
5	20	1	LIGHTS - PILING CAPS	0.20	0.7		0.50	HEATER IN HOTBOX	1	15	6
7	20	1	SPARE					SPARE	1	20	8
9			SPACE - DO NOT USE					SPACE - DO NOT USE			10
11			SPACE - DO NOT USE					SPACE - DO NOT USE			12
13			SPACE - DO NOT USE					SPACE - DO NOT USE			14
15			SPACE - DO NOT USE					SPACE - DO NOT USE			16
17			SPACE - DO NOT USE					SPACE - DO NOT USE			18

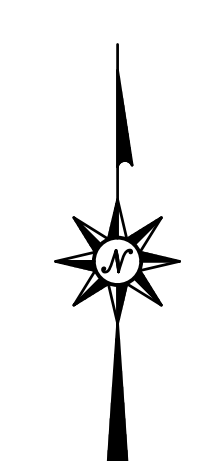
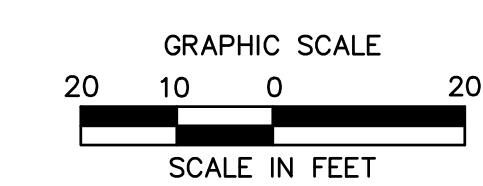
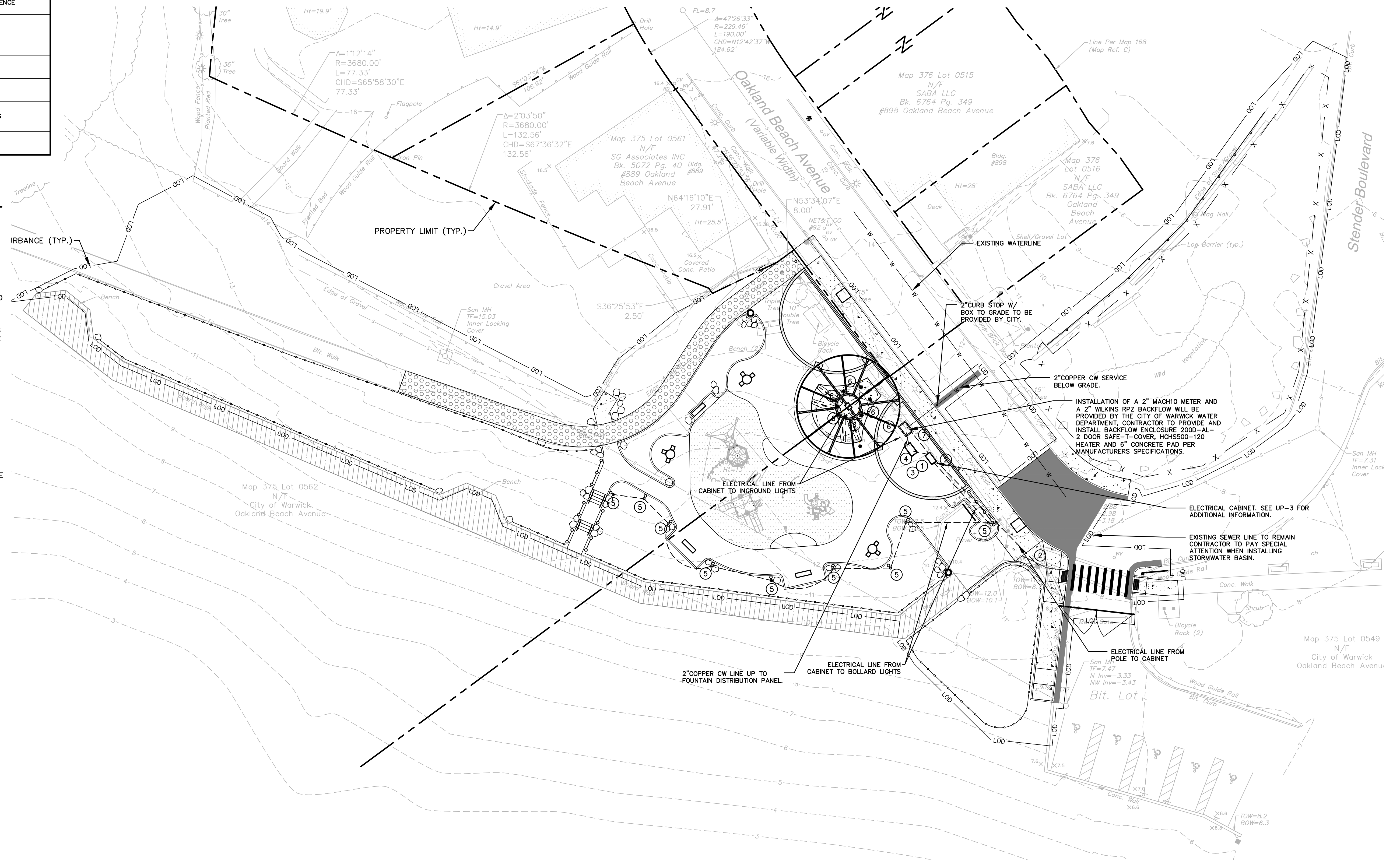
MANUFACTURER: SCHNEIDER ELECTRIC/SQUARE D		1.14	1.14	Total KVA per Phase
PANEL TYPE: QO LOAD CENTER		1.1	1.1	Total KVA per Phase for Panel
		2.3		Total KVA for Panel

## GENERAL SHEET NOTES:

- FURNISH AND INSTALL ALL ELECTRICAL POWER AND LIGHTING DEVICES INDICATED ON THIS DRAWING, UNLESS INDICATED OTHERWISE BY A KEY NOTE.
- REFER TO DRAWING UP-2 FOR PLUMBING SPECIFICATIONS.
- REFER TO DRAWING UP-3 FOR ELECTRICAL SPECIFICATIONS & DETAILS.
- PROVIDE A TYPED CIRCUIT INDEX CARD FOR PANELBOARD IN ACCORDANCE WITH NEC 408.4. HAND WRITTEN AND PERMANENT MARKER ARE NOT ACCEPTABLE.
- THE DRAWING SHOWS EQUIPMENT AND DEVICE LOCATIONS ONLY. WIRING SHOWN IS SCHEMATIC IN NATURE. REFER TO KEY NOTES AND DETAILS FOR ALL REQUIRED POWER AND CONTROL WIRING. COORDINATE CONDUIT ROUTE IN FIELD WITH OTHER TRADES, EQUIPMENT AND LANDSCAPE ARCHITECT.
- EQUIPMENT AND LIGHTING LOCATIONS INDICATED ON PLANS ARE APPROXIMATE. EXACT LOCATIONS MUST BE COORDINATED WITH LANDSCAPE ARCHITECT.
- ALL EXTERIOR POWER RECEPTACLES MUST BE GROUND FAULT PROTECTED.
- COORDINATE WITH SPLASH PAD EQUIPMENT INSTALLER FOR EXACT LOCATIONS OF EQUIPMENT AND PLUMBING AND ELECTRICAL TERMINATION REQUIREMENTS.
- THE CITY WATER DIVISION WILL PERFORM THE TAP IN THE STREET AND BRING WATER INTO THE PROPERTY TO THE LOCATION OF THE 'HOT BOX'. THEY WILL ALSO PROVIDE THE SERVICE VALVE IN THE HOT BOX AS WELL AS THE 2" MACH10 METER AND 2" BACKFLOW. CONTRACTOR WILL BE RESPONSIBLE FOR ANY WORK AFTER THE 'HOT BOX'.

## WARNING: UNDERGROUND UTILITIES

THE CONTRACTOR IS TO BE FULLY RESPONSIBLE FOR CONTACTING THE LOCAL POWER, TELEPHONE, CABLE TELEVISION, GAS, WATER, AND SEWER COMPANIES AND ANY OTHER UTILITY COMPANIES WITHIN THE AREA PRIOR TO PROCEEDING WITH ANY EXCAVATION. BY LAW, THE CONTRACTOR IS REQUIRED TO CALL BEFORE DOING ANY EXCAVATION, DIGGING HOLES, OR DRIVING POSTS REGARDLESS OF WHETHER IT IS WITHIN THE STREET LINE OR ON PRIVATE PROPERTY. CONTRACTOR SHALL CALL A MINIMUM OF (2) TWO FULL WORKING DAYS BEFORE ANY EXCAVATION.



# OAKLAND BEACH PLAYGROUND AND SPLASHPAD

OAKLAND BEACH AVENUE  
WARWICK, RHODE ISLAND



355 Research Parkway  
Meriden, CT 06450  
(203) 630-1406  
(203) 630-2615 Fax

REV/ISS	No.	Date	Desc.
Designed	RB/DT		
Drawn	RB/DT		
Reviewed	DC/DP		
Scale	1"=20'		
Project No.	2100515		
Date	June 2023		
CAD File:	UP210051501		

## UTILITY PLAN

Sheet No.

# UP-1



