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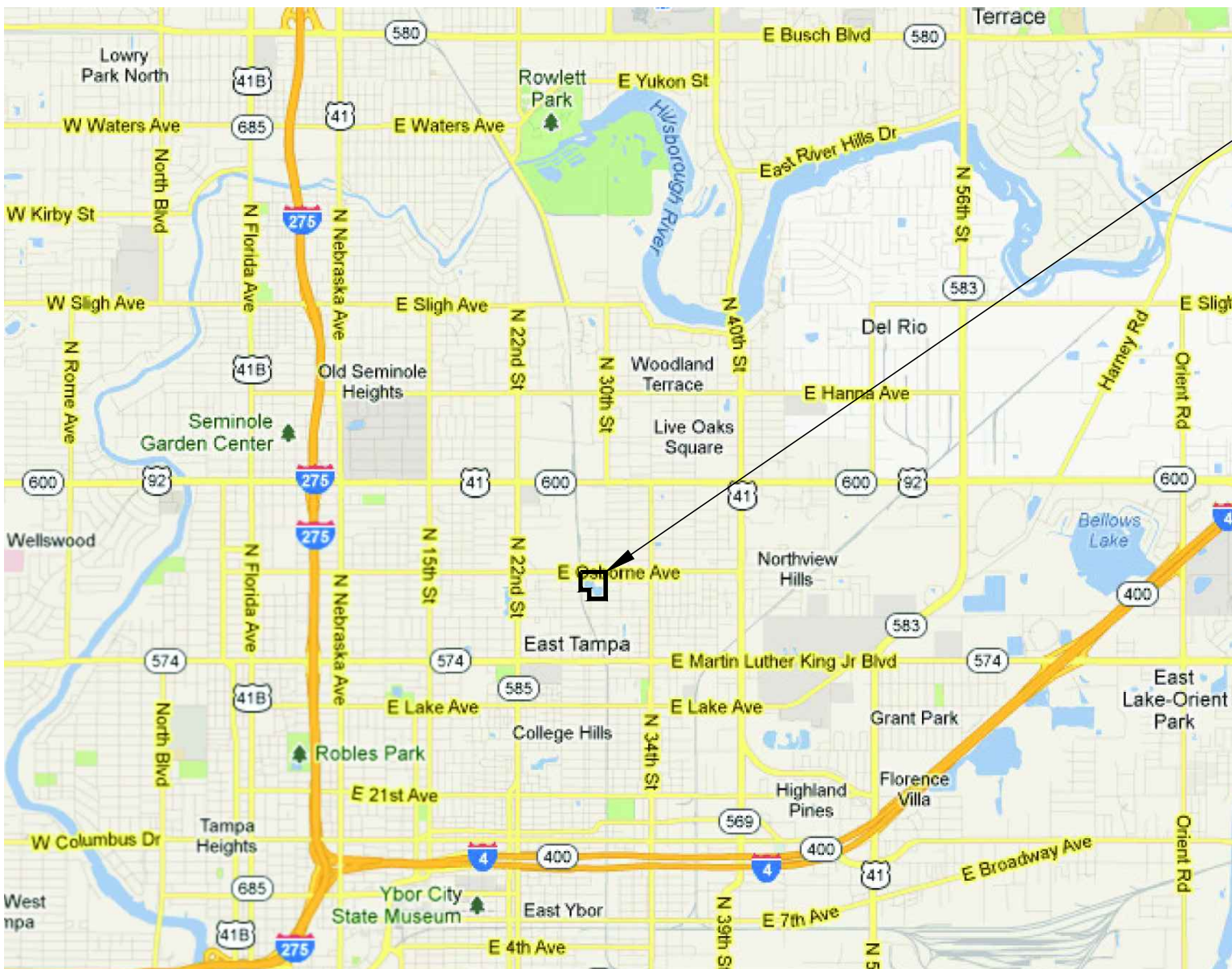
Please Email ALL Questions:
[MailTo:ContractAdministration@TampaGov.net](mailto:ContractAdministration@TampaGov.net)

Please Let Us Know If You Plan To Bid

City of Tampa
Contract Administration Department
306 E. Jackson St. #280A4N
Tampa, FL 33602
(813)274-8456

OSBORNE AVENUE POND PROPOSED BOARDWALK

CITY OF TAMPA PARKS AND RECREATION DEPATRMENT
PLANNING & DESIGN
3402 W. COLUMBUS DRIVE
TAMPA, FL 33607



PROJECT LOCATION
3803 E. OSBORNE AVENUE
TAMPA, FL

VICINITY MAP

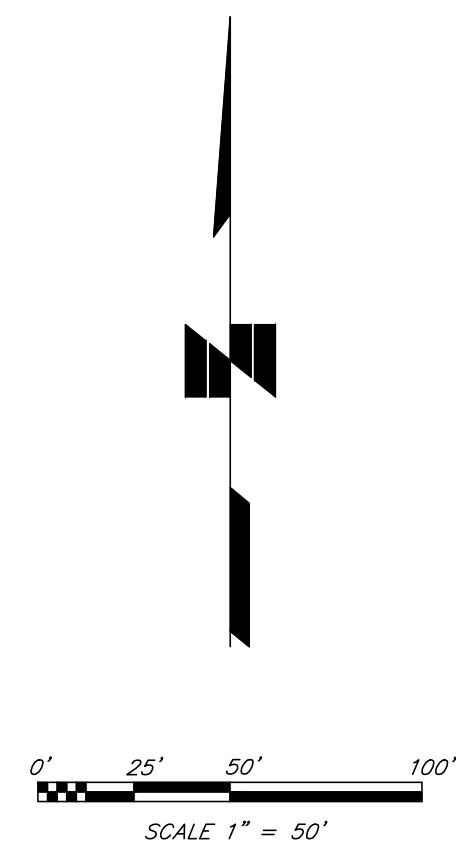
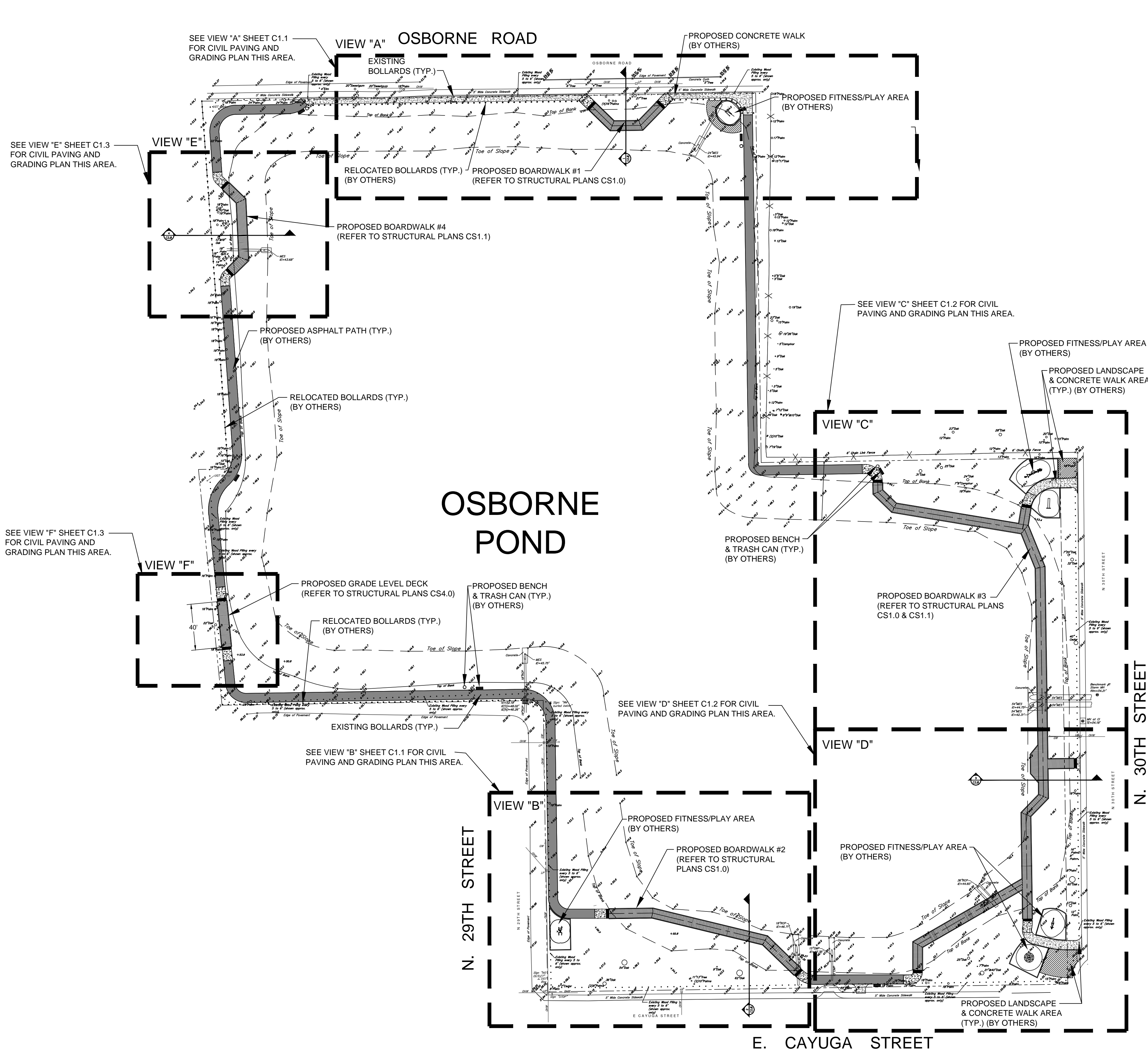
S-T-R 5-29-19

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
X0.0	COVER SHEET
C1.0	OVERALL CIVIL SITE
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C1.2	ENLARGED BOARDWALK PLAN
C1.3	ENLARGED BOARDWALK PLANS
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CS3.0	BOARDWALK FRAMING DETAILS
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CS4.1	BOARDWALK FRAMING DETAILS
CS4.2	BOARDWALK FRAMING DETAILS

BID SET 11/04/13

REVISIONS						FOR CITY OF TAMPA PARKS AND RECREATION DEPARTMENT 3402 W. COLUMBUS DRIVE TAMPA, FL 33607	DRAWN BY: <u>CVM</u> DATE <u>0/16/13</u> DSGN BY: <u>CVM</u> DATE <u>0/16/13</u> CHKD BY: <u>LEM</u> DATE <u>0/16/13</u> SCALE: <u>NA</u>	PROJECT OSBORNE AVENUE POND PROPOSED BOARDWALK COVER SHEET	SHEET X0.0 JOB NO. 13-016
BY	DATE	DESCRIPTION	BY	DATE	DESCRIPTION				
MILLS and ASSOCIATES, INC. CONSULTING ENGINEERS & LAND SURVEYORS 3242 HENDERSON BOULEVARD – SUITE 300 TAMPA, FLORIDA 33609-3056 TELEPHONE: (813) 876-5869						LAWRENCE E. MILLS P.E. NO. 22324 – E.B. NO. 3860 P.L.S. NO. 3141 – L.B. NO. 3868 STATE OF FLORIDA			



LEGEND: (AS APPLICABLE)	
approx.	= approximate
F.I.P.	= Found Iron Pipe
S.I.R.	= Set 5/8" Iron Rod & LB 3868 Cop
NO I.D.	= No Identification
Conc.	= Concrete
CMP	= Corrugated Metal Pipe
ELEV	= Elevation
el.	=
exist.	= existing
G.T.I.	= Grate Top Inlet
HYD.	= Fire Hydrant
inv.	= invert elevation
LP	= light pole
loc.	= location
MES	= mitered end section
MH	= manhole
OHW	= overhead wire
PROP.	= proposed
RCP	= reinforced concrete pipe
rep.	= reported data
R/W	= Right-of-way
s.s.	= Street Sign
T.B.M.	= Temporary Bench Mark
(TYP)	= Typical
UGT	= Underground Telephone
U.P.	= Utility Pole
WM	= Water Main
WV	= Water Valve
+17.45	= Existing Grade
-17.35	= Proposed Grade

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MILLS and ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
3242 HENDERSON BOULEVARD - SUITE 300
TAMPA, FLORIDA 33609-3056
TELEPHONE: (813) 876-5869

FOR
CITY OF TAMPA
PARKS AND RECREATION DEPARTMENT
3402 W. COLUMBUS DRIVE
TAMPA, FL 33607

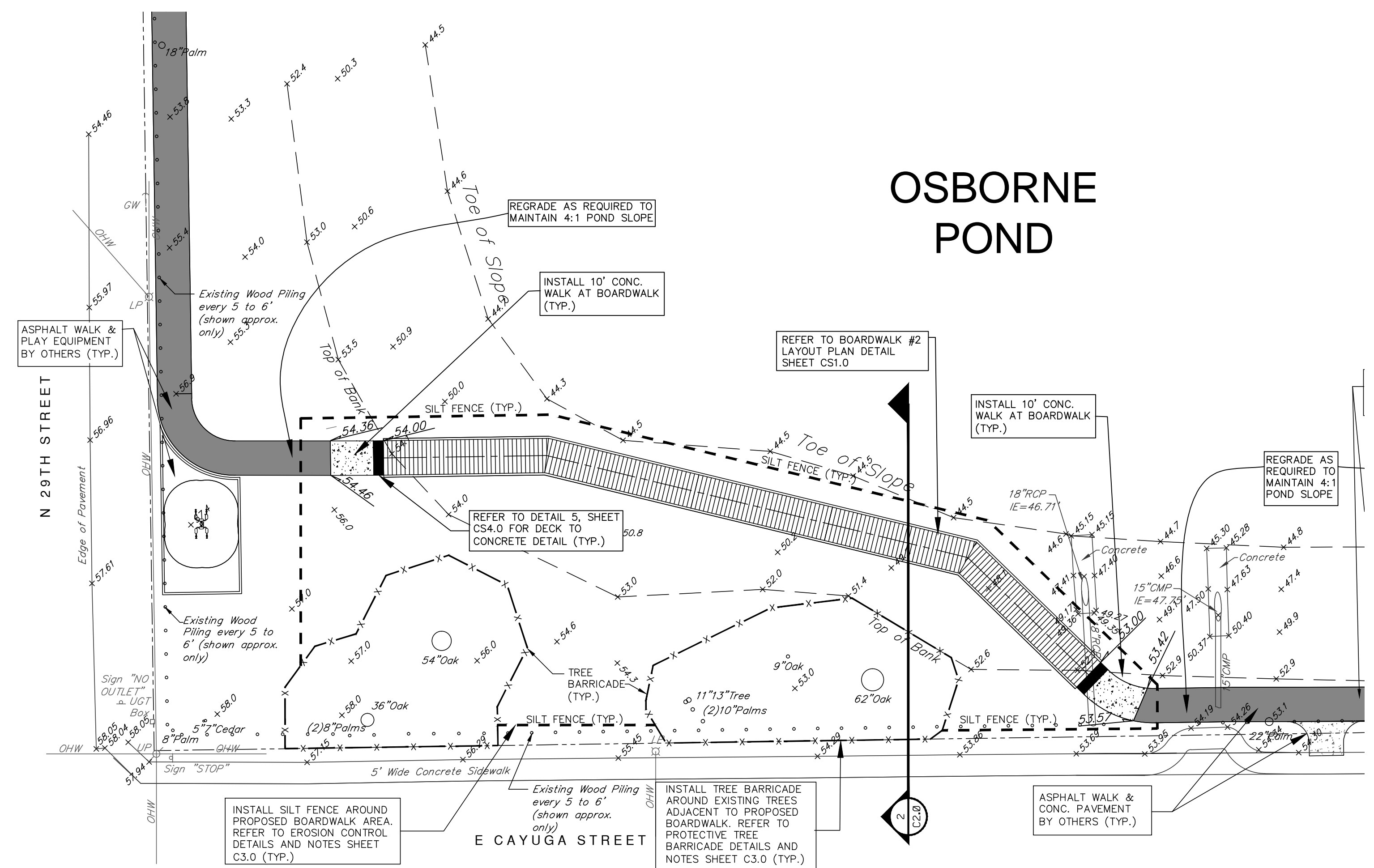
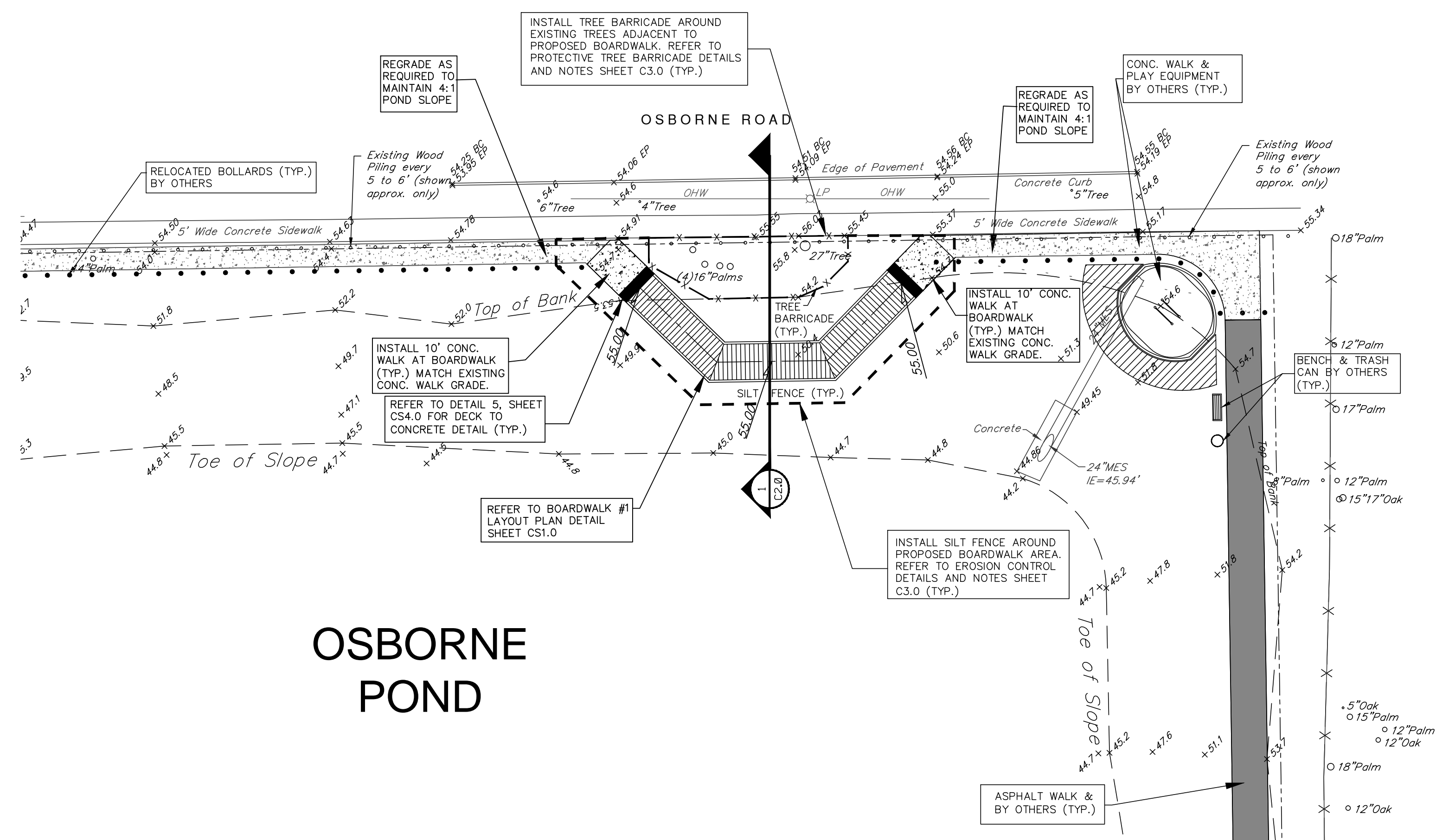
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DSGN BY: CVM DATE 10/16/13
CHKD BY: LEM DATE 10/16/13
SCALE: 1" = 50'

LAWRENCE E. MILLS
P.E. NO. 22324 - E.B. NO. 3860
P.L.S. NO. 3141 - L.B. NO. 3868
STATE OF FLORIDA

PROJECT
OSBORNE AVENUE POND
PROPOSED BOARDWALK

OVERALL CIVIL SITE

SHEET
C1.0
JOB NO.
13-016



VIEW "A" - CIVIL PAVING & GRADING
SCALE 1"= 20'

VIEW "B" - CIVIL PAVING & GRADING
SCALE 1"= 20'

[illegible]

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SCALE: 1" = 20'

DSGN BY: CVM DATE 10/16/13

CHKD BY: LEM DATE 10/16/13

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DATE 10/16/13

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LAWRENCE E. MILLS
P.E. NO. 22324 - E.B. NO. 3860
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STATE OF FLORIDA

PROJECT

*OSBORNE AVENUE POND
PROPOSED BOARDWALK*

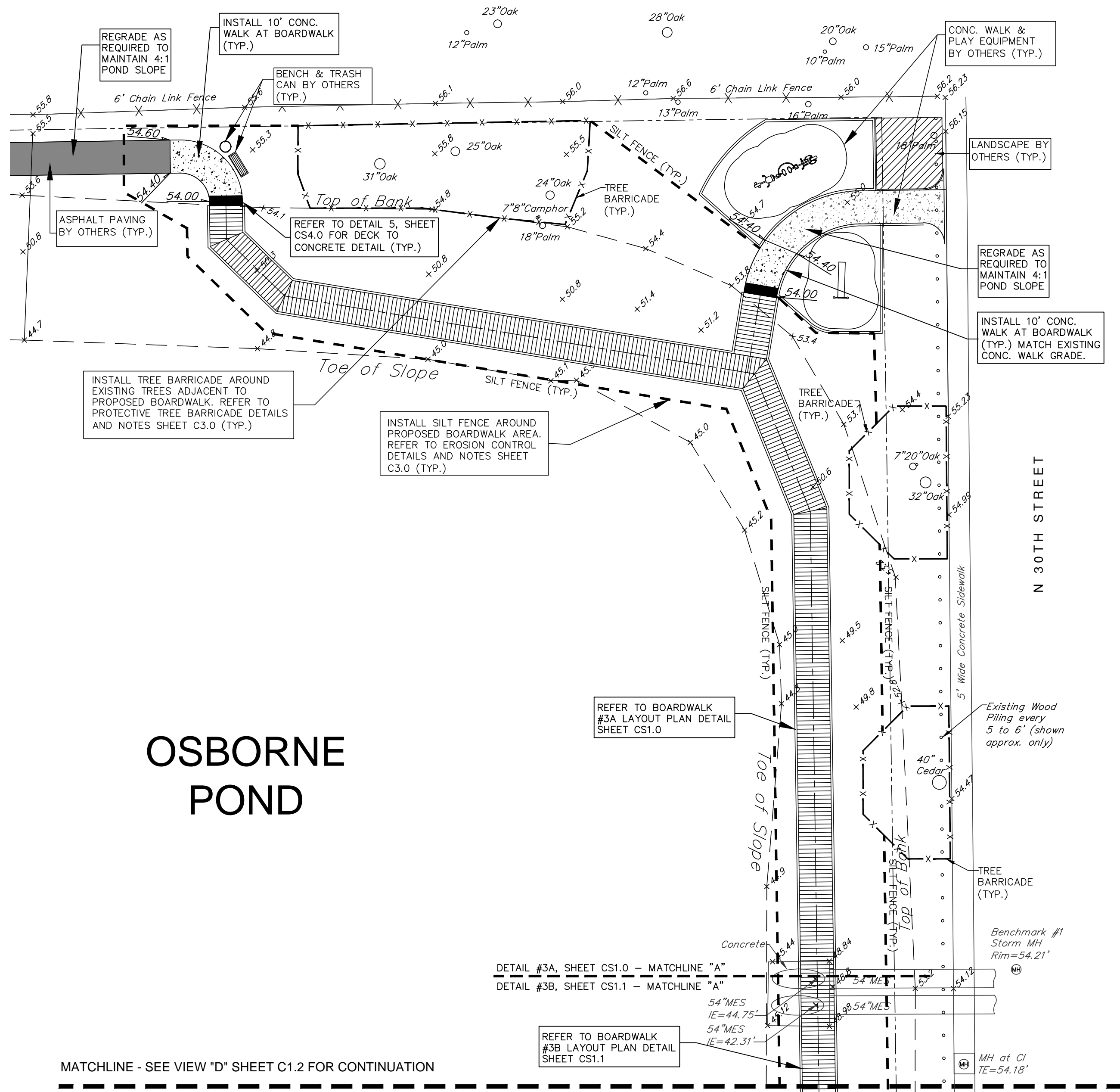
ENLARGED BOARDWALK PLAN

SHEET

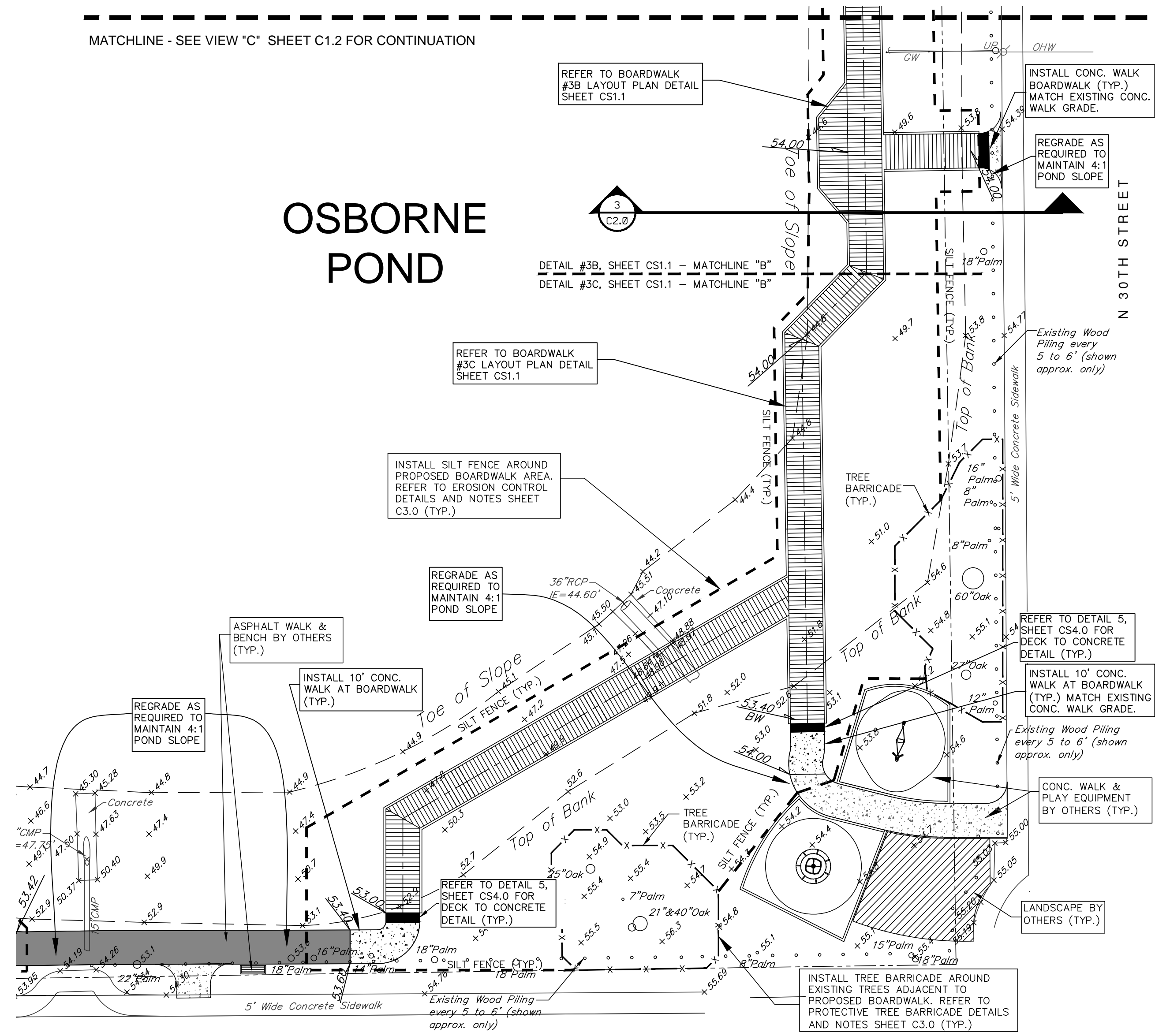
C1.1

JOB NO.
13-016

BID SET 11/04/13



VIEW "C" - CIVIL PAVING & GRADING
SCALE 1"= 20'



VIEW "D" - CIVIL PAVING & GRADING
SCALE 1"= 20'

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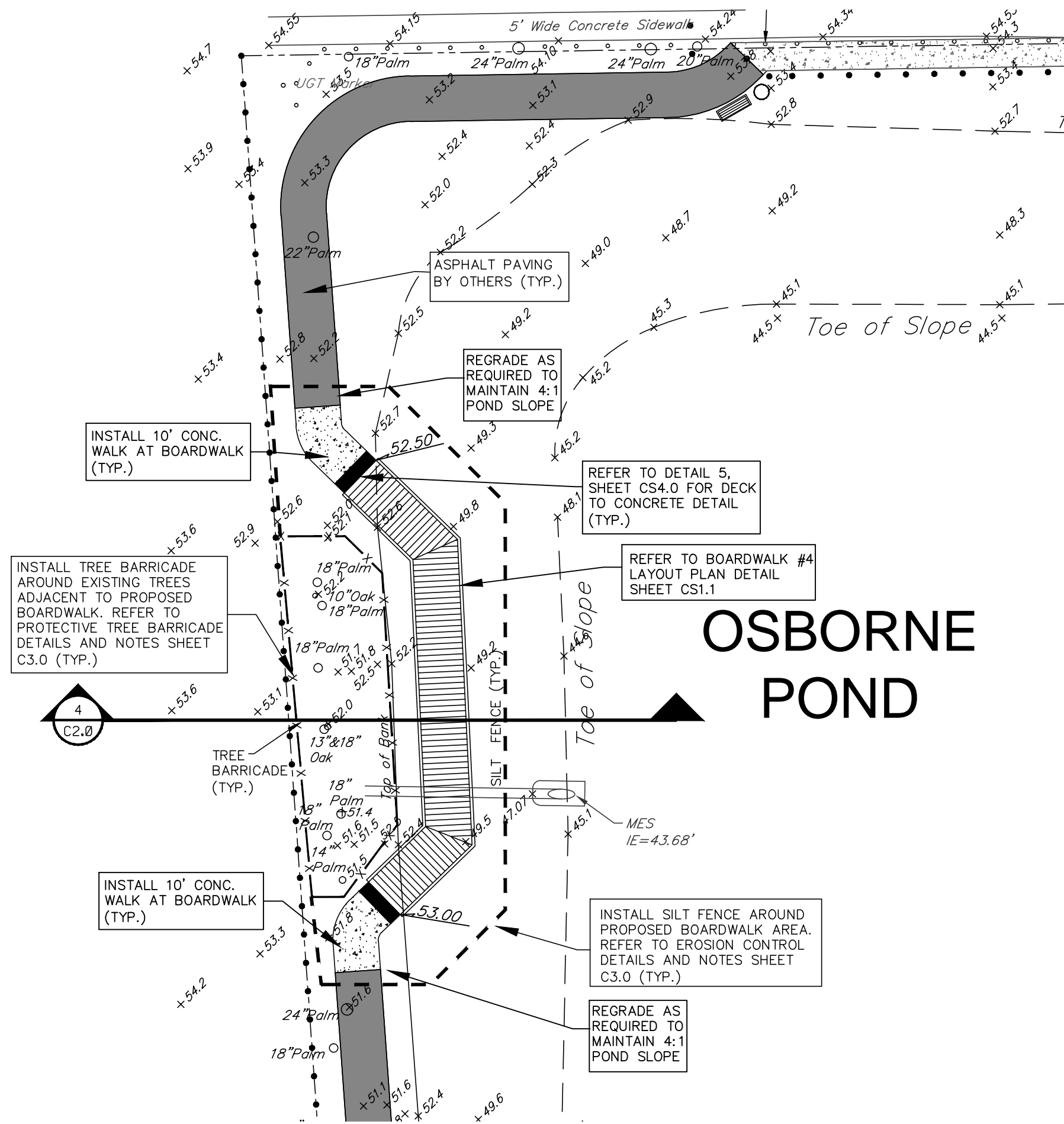
LAWRENCE E. MILLS
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PROJECT
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PROPOSED BOARDWALK

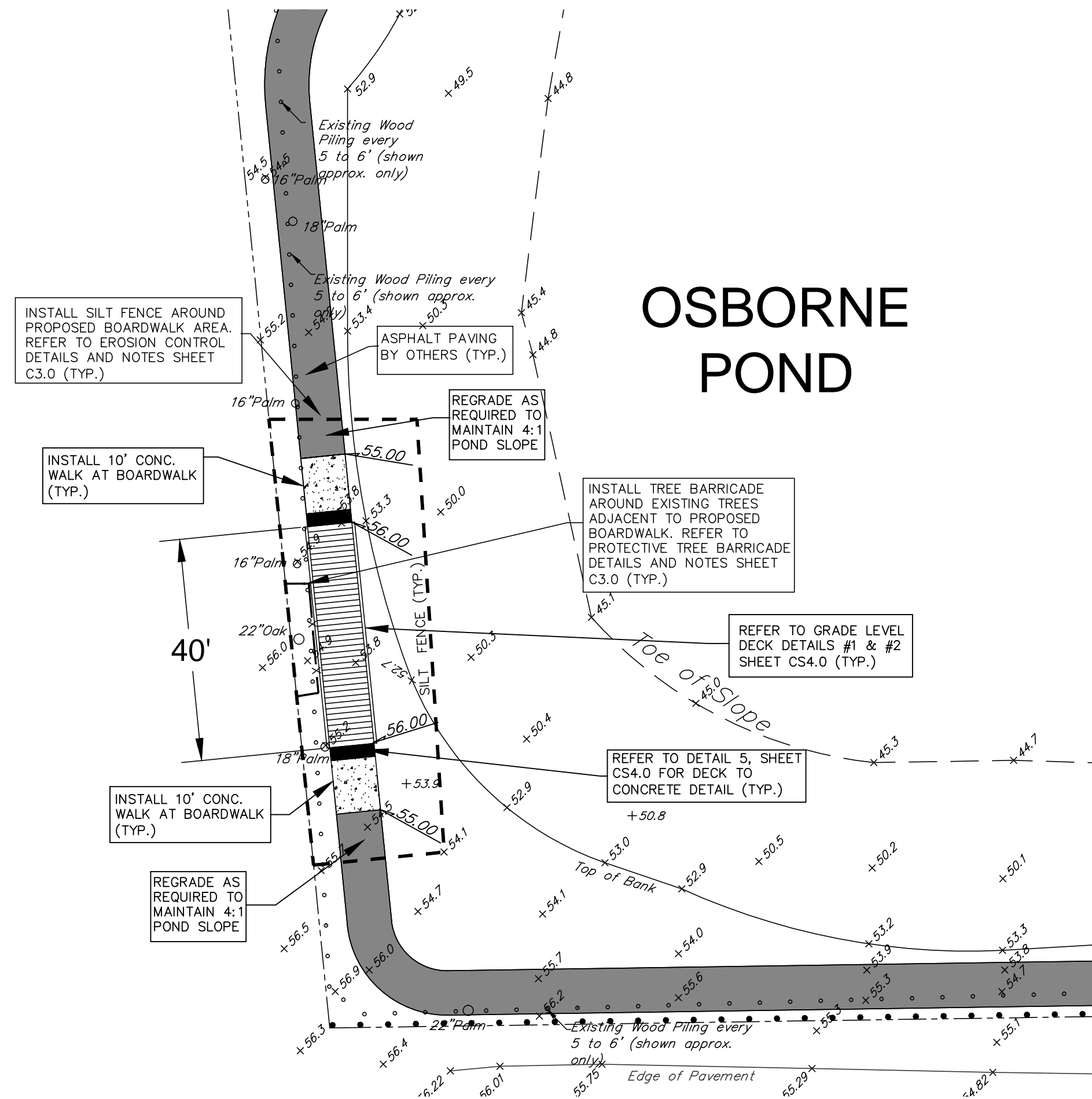
ENLARGED BOARDWALK PLAN

SHEET
C1.2
JOB NO.
13-016

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VIEW "E" - CIVIL PAVING & GRADING
SCALE 1"= 20'



VIEW "F" - CIVIL PAVING & GRADING
SCALE 1"= 20'

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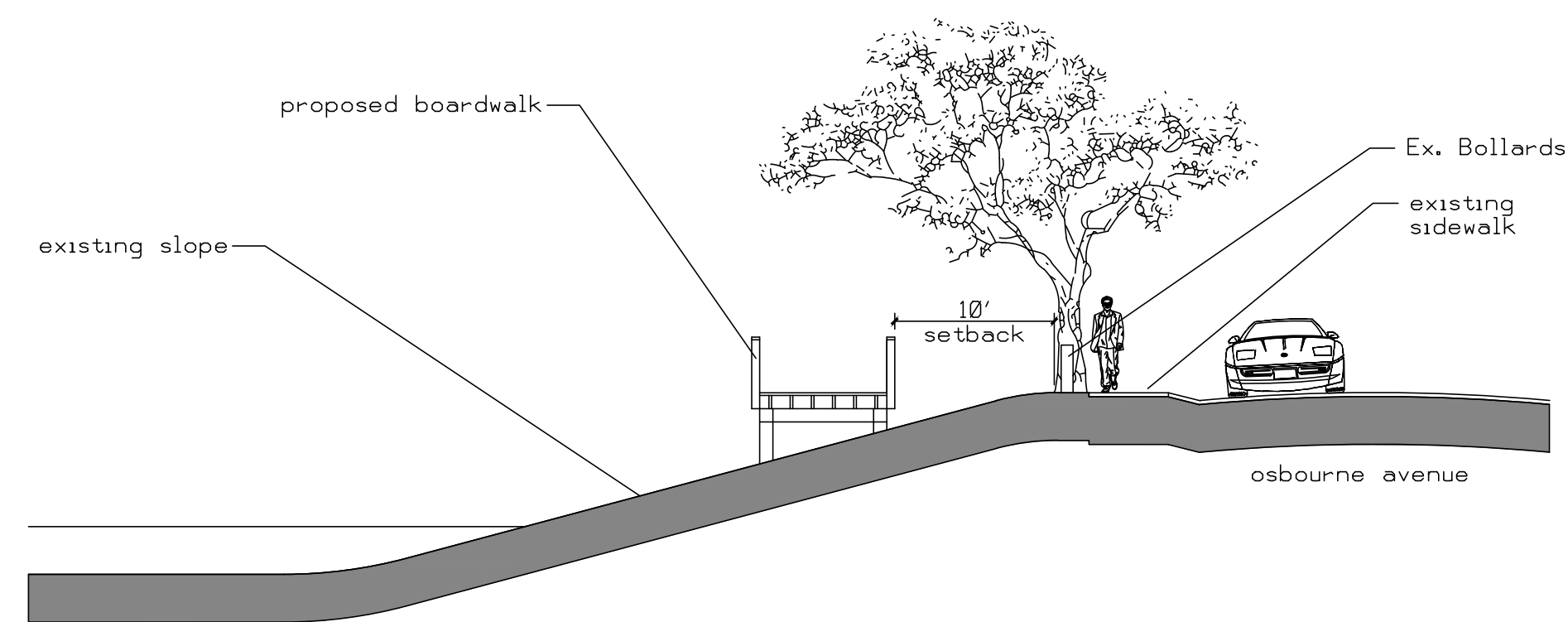
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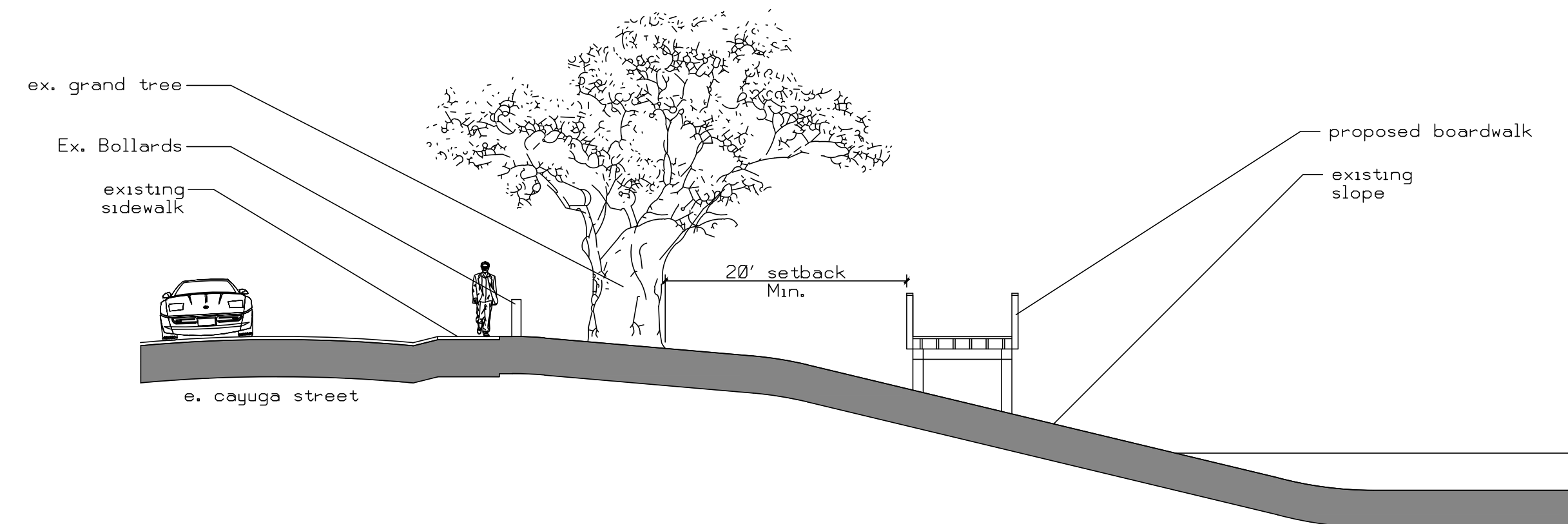
PROJECT
OSBORNE AVENUE POND
PROPOSED BOARDWALK

ENLARGED BOARDWALK PLAN

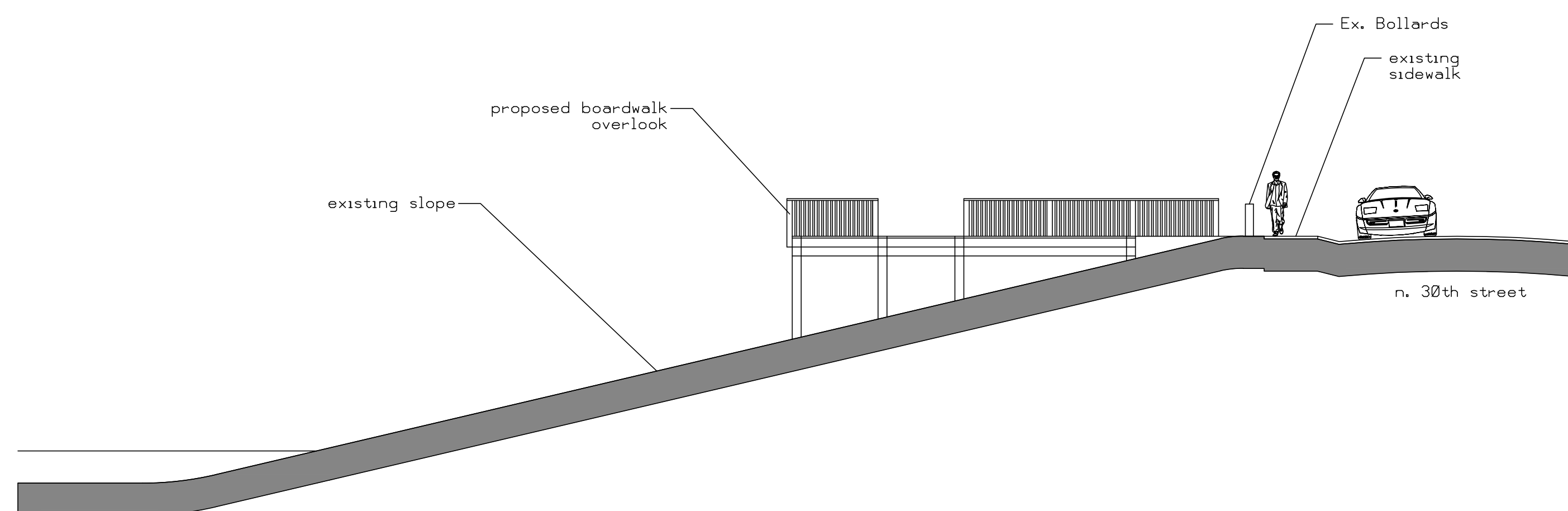
SHEET
C1.3
JOB NO.
13-016



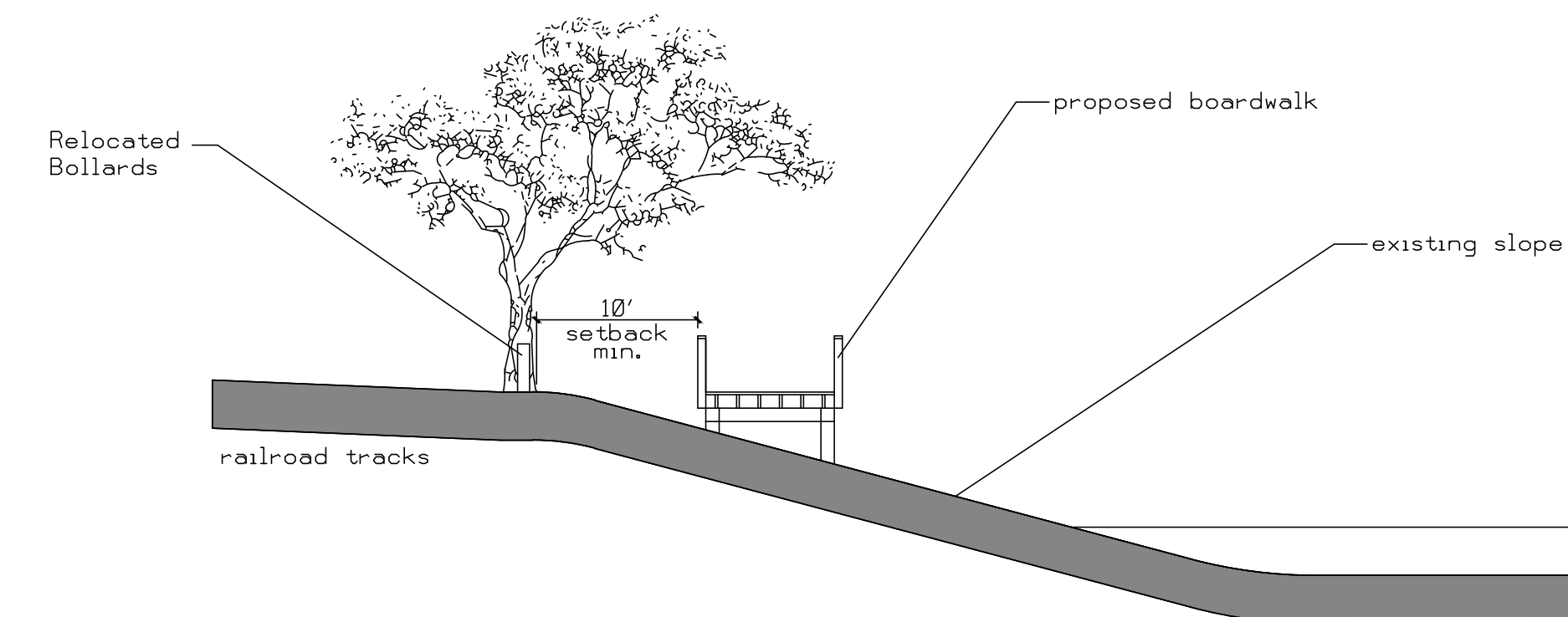
1 proposed section view - slope along osborne avenue
C2.0 scale 1" = 10'



2 proposed section view - slope along e.cayuga street
C2.0 scale 1" = 10'



3 proposed section view - slope along n. 30th street
C2.0 scale 1" = 10'



4 proposed section view - slope along railroad tracks
C2.0 scale 1" = 10'

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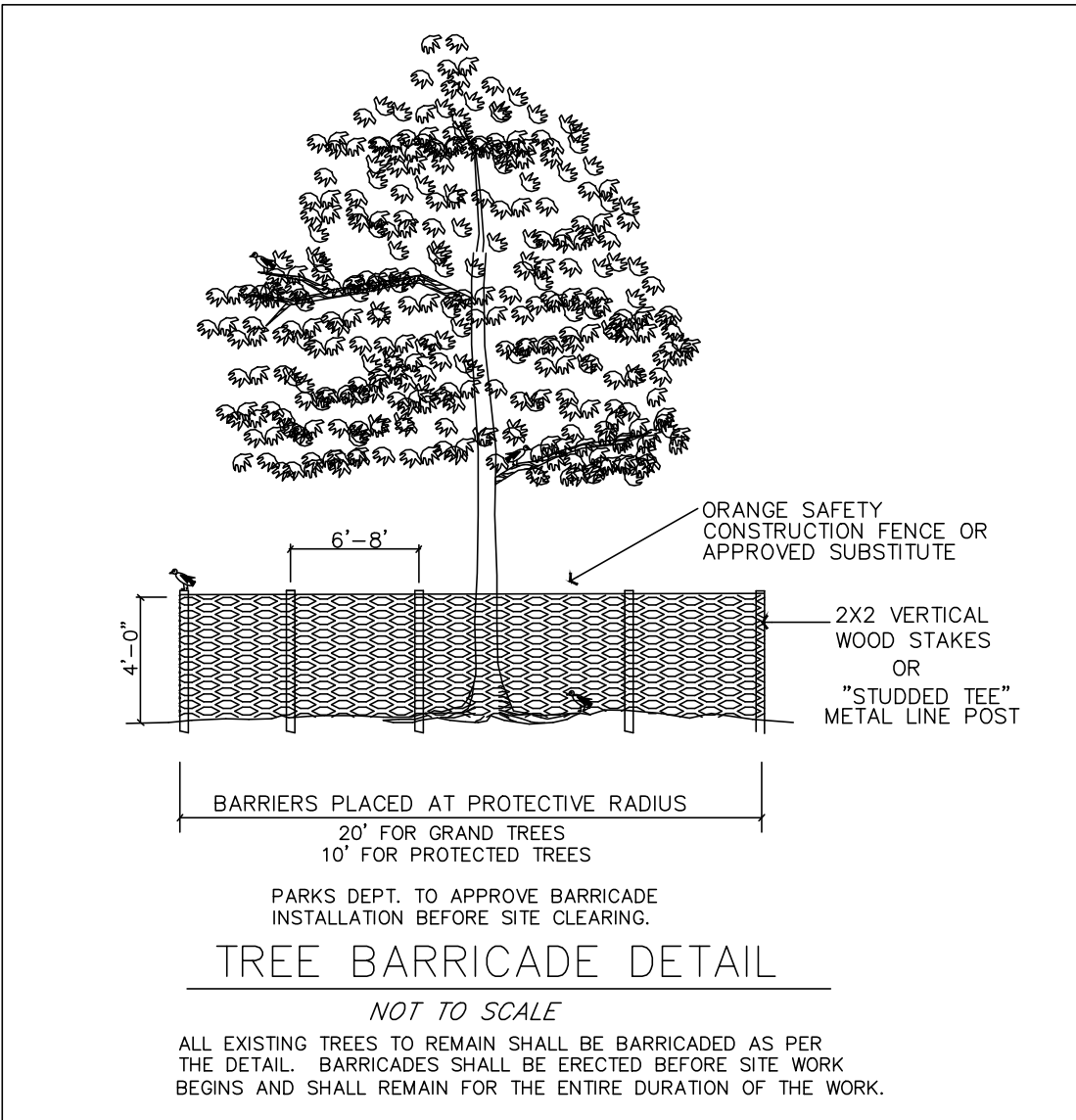
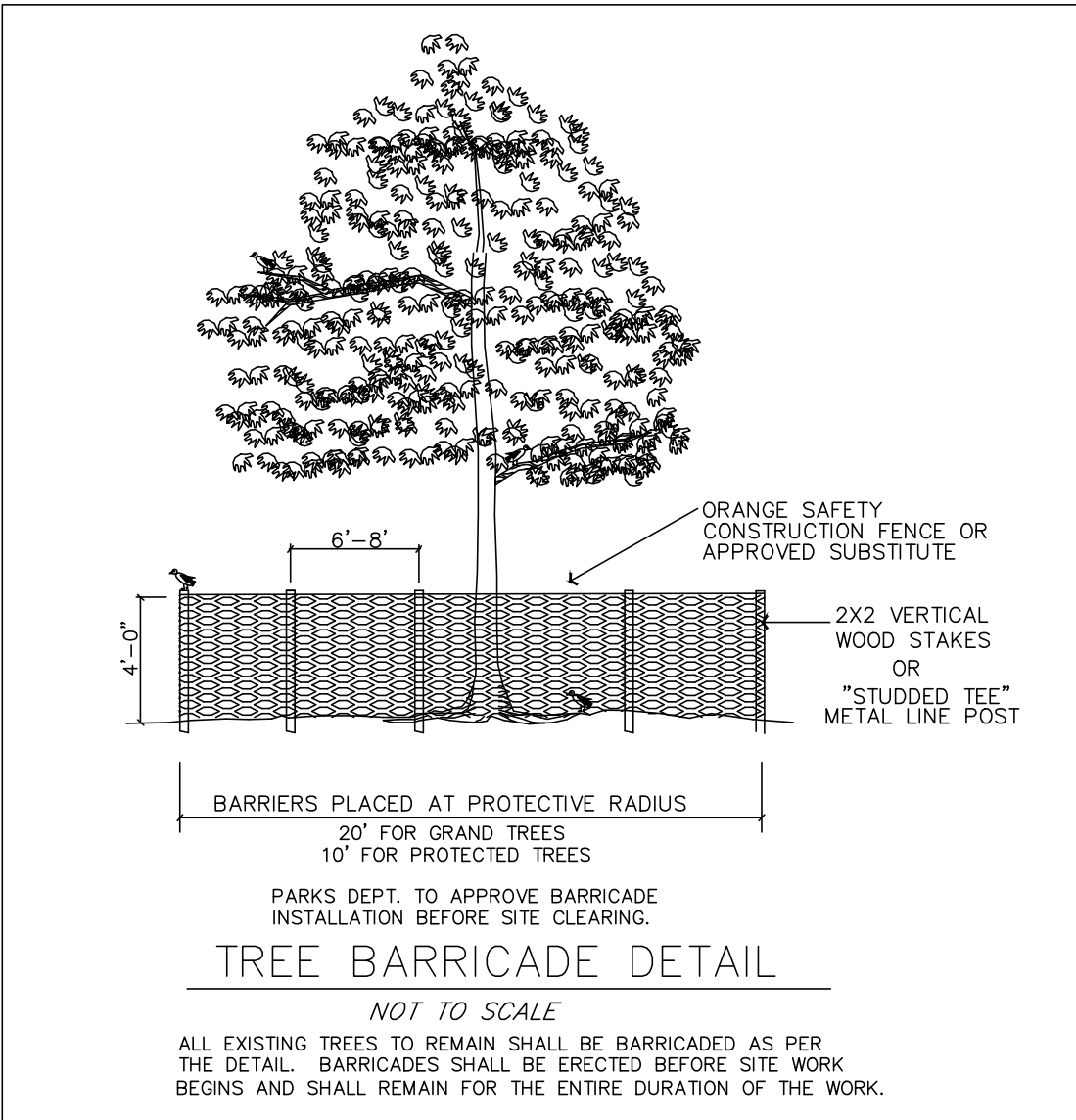
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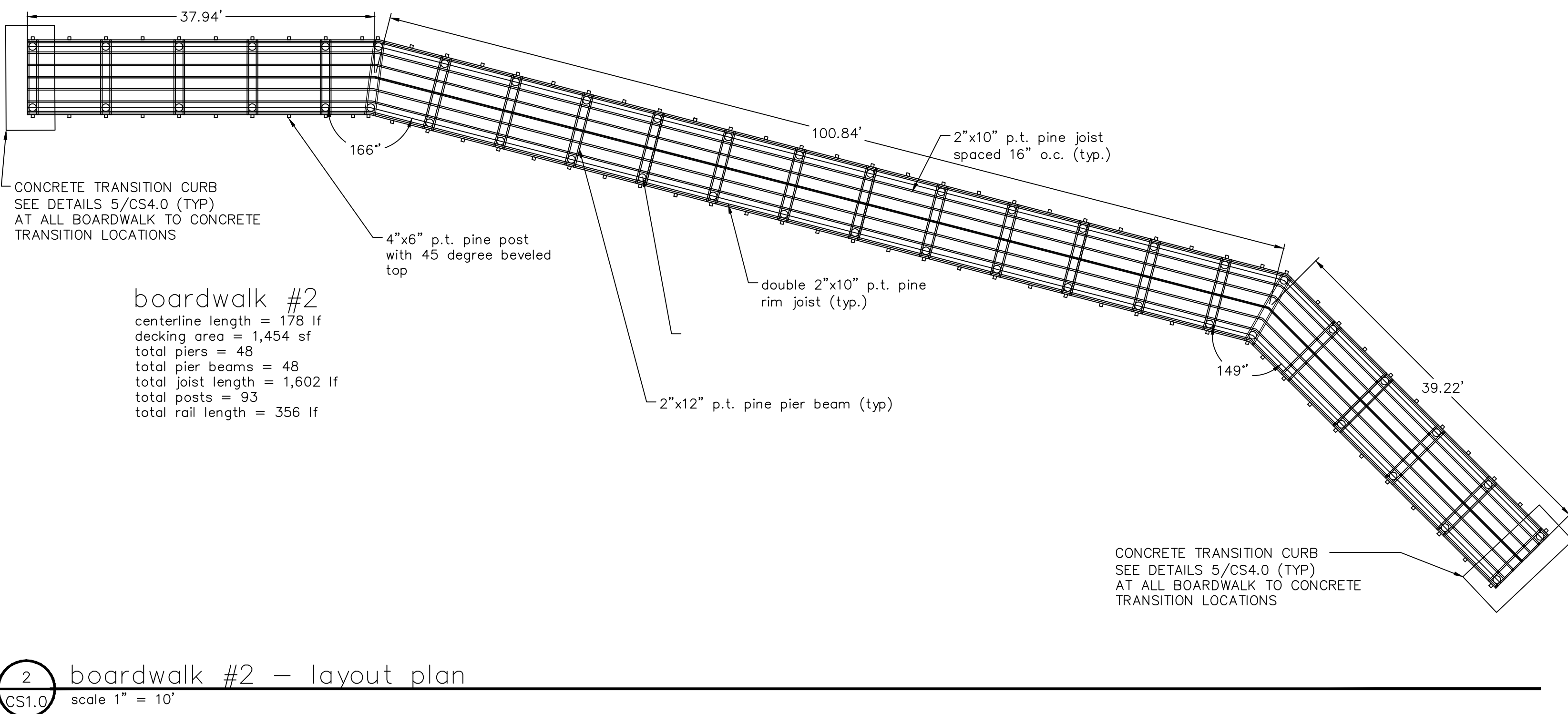
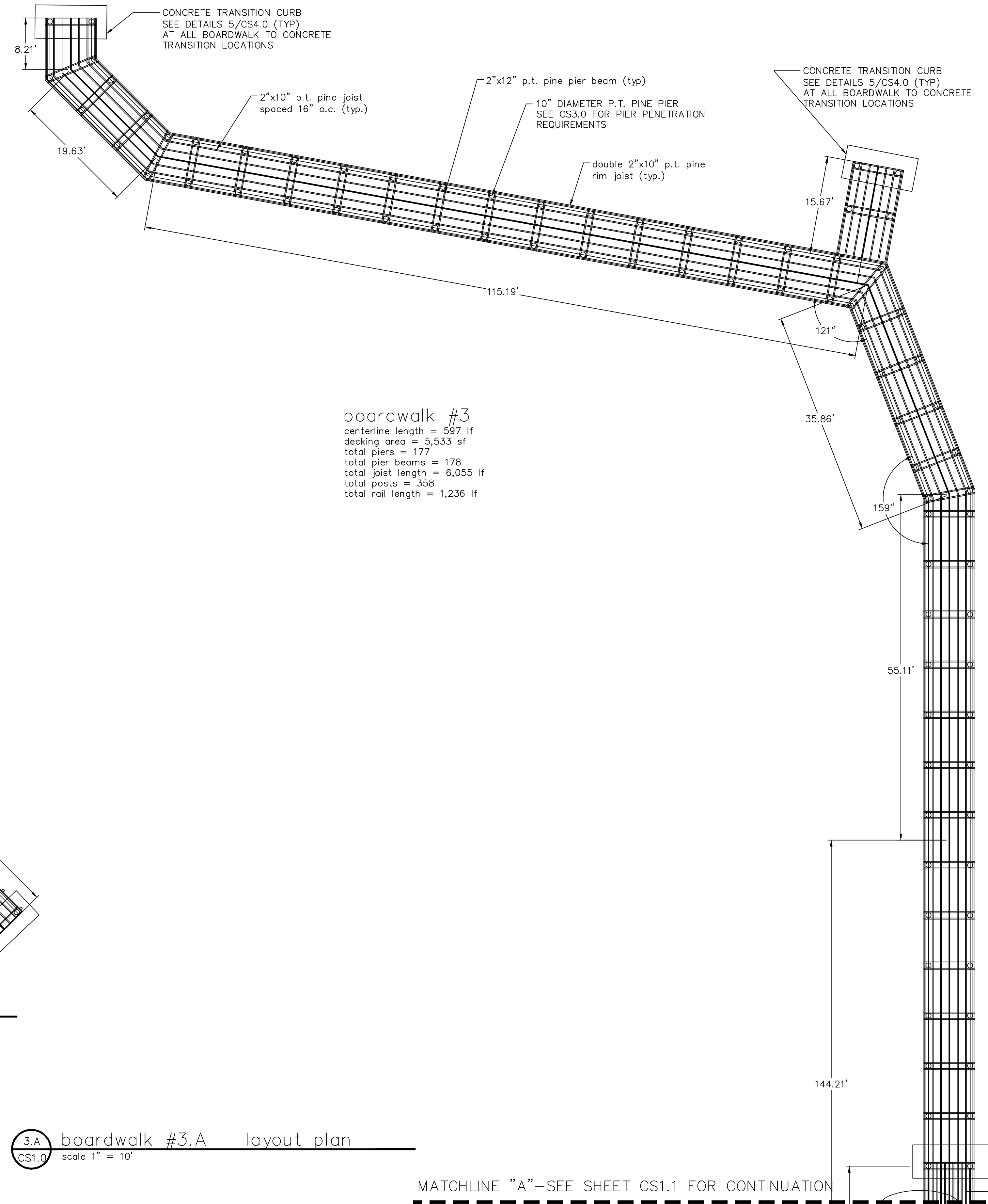
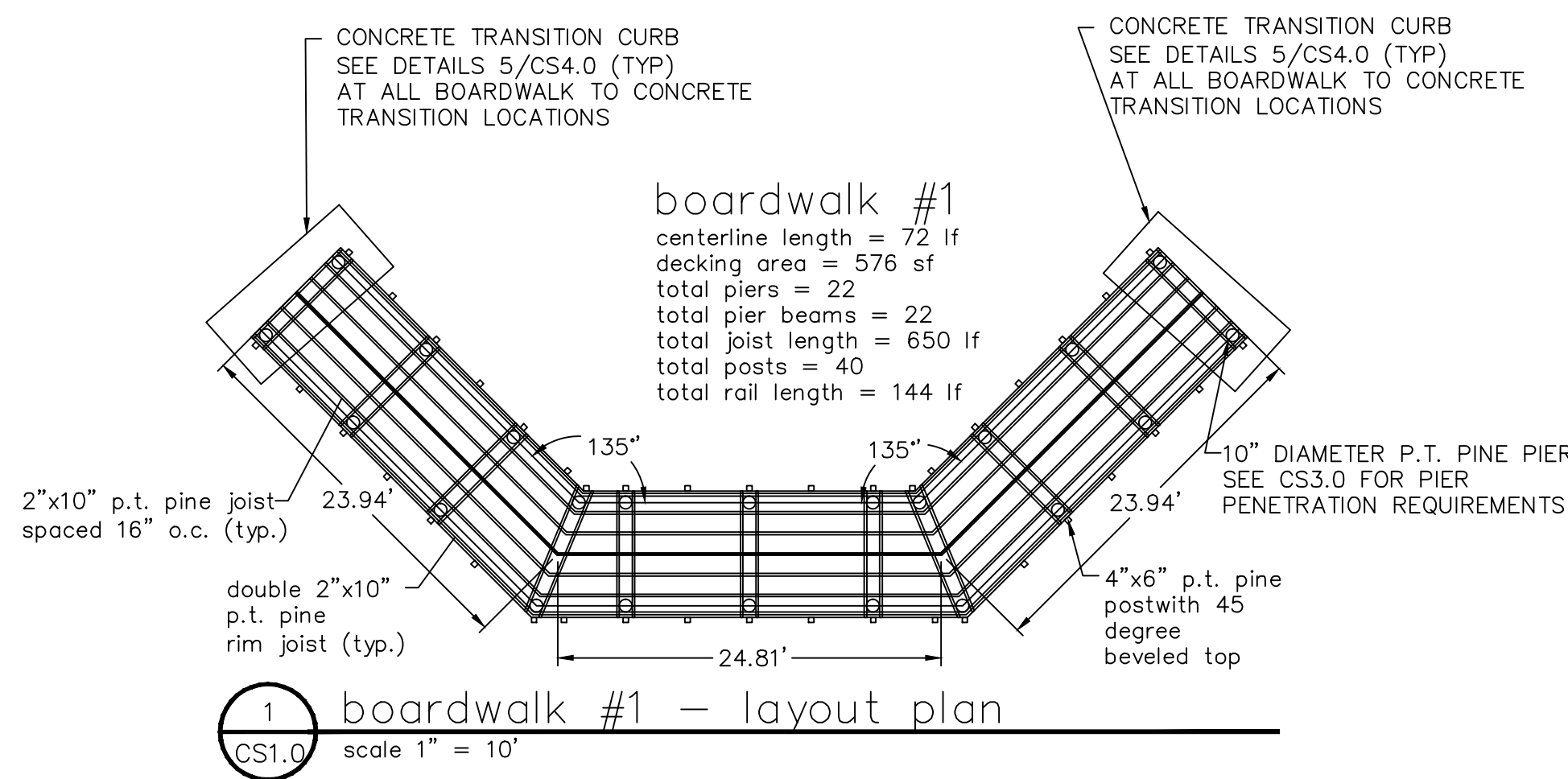
PROJECT
OSBORNE AVENUE POND
PROPOSED BOARDWALK

BOARDWALK SECTION VIEWS

SHEET
C2.0
JOB NO.
13-016

1. All work shall comply with the regulations, requirements and ordinances of the various governing agencies having jurisdiction over said work, including, and not limited to, Hillsborough County, City of Tampa, F.D.E.P., F.D.I.S., S.W.F.W.M.D., and F.D.O.T.
2. Location, dimension, elevation and identification of existing utilities, structures and other topographic features are approximate only, according to the best information available at the time of preparation of these plans. There may be additional existing details on-site and off-site, the presence of which is not known or detected at this time. Engineer/Surveyor shall not be held responsible for undetected underground utilities. Prior to construction, it is the contractor's responsibility to verify the location, dimension, elevation and identification of all utilities, structures and topographic features (i.e. buildings, sidewalks, canopy supports, fences, pavement, underground utilities, utility poles/guy wires, manholes, inlets, d/c units, trees, landscaping, etc.). If any of the existing or proposed conditions either: a) conflict with the proposed improvements, or b) are not shown or shown incorrectly on the plans, it is the contractor's responsibility to contact the Engineer prior to the commencing any work activities.
3. The construction testing/inspection shall be the contractor's responsibility to schedule and complete any and all tests as required with all site civil improvements constructed on and off site. It shall also be the contractor's responsibility to pre-test these improvements prior to giving the Engineer—of record any governing agency field representative 48 hours advance notice of any formal tests.
4. Engineer/Surveyor shall not be held responsible for undetected underground utilities and/or soil conditions. Site preparation to be in accordance with a geotechnical engineer's recommendations and as a minimum standard must conform with the following: a) Unsuitable material to be removed; b) Fill material to be clean with no organics, muck, clay, etc.; c) Fill to be placed 12" lifts or less and compacted to 98% modified proctor.
5. All elevations refer to National Geodetic Vertical Datum.
6. The contractor shall notify the appropriate public agency(ies) and utility companies prior to commencing work within their jurisdiction(s).
7. All pipe lengths are plus or minus and are measured from center of fittings and/or structure.
8. The Contractor shall maintain copies of all applicable permits on-site and shall be responsible to adhere to all permit conditions during construction.
9. Florida Statute 553.851 (1979) requires a minimum of 2 days and maximum of 5 days notice before excavation. Cal SUNSHINE 1990-1991, CALIF. OF FLORIDA 1991-1992, 1993-1994, 1995-1996, 1997-1998, 1999-2000, 2001-2002, 2003-2004, 2005-2006, 2007-2008, 2009-2010, 2011-2012, 2013-2014, 2015-2016, 2017-2018, 2019-2020, 2021-2022, 2023-2024, 2025-2026, 2027-2028, 2029-2030, 2031-2032, 2033-2034, 2035-2036, 2037-2038, 2039-2040, 2041-2042, 2043-2044, 2045-2046, 2047-2048, 2049-2050, 2051-2052, 2053-2054, 2055-2056, 2057-2058, 2059-2060, 2061-2062, 2063-2064, 2065-2066, 2067-2068, 2069-2070, 2071-2072, 2073-2074, 2075-2076, 2077-2078, 2079-2080, 2081-2082, 2083-2084, 2085-2086, 2087-2088, 2089-2090, 2091-2092, 2093-2094, 2095-2096, 2097-2098, 2099-2100, 2101-2102, 2103-2104, 2105-2106, 2107-2108, 2109-2110, 2111-2112, 2113-2114, 2115-2116, 2117-2118, 2119-2120, 2121-2122, 2123-2124, 2125-2126, 2127-2128, 2129-2130, 2131-2132, 2133-2134, 2135-2136, 2137-2138, 2139-2140, 2141-2142, 2143-2144, 2145-2146, 2147-2148, 2149-2150, 2151-2152, 2153-2154, 2155-2156, 2157-2158, 2159-2160, 2161-2162, 2163-2164, 2165-2166, 2167-2168, 2169-2170, 2171-2172, 2173-2174, 2175-2176, 2177-2178, 2179-2180, 2181-2182, 2183-2184, 2185-2186, 2187-2188, 2189-2190, 2191-2192, 2193-2194, 2195-2196, 2197-2198, 2199-2200, 2201-2202, 2203-2204, 2205-2206, 2207-2208, 2209-2210, 2211-2212, 2213-2214, 2215-2216, 2217-2218, 2219-2220, 2221-2222, 2223-2224, 2225-2226, 2227-2228, 2229-2230, 2231-2232, 2233-2234, 2235-2236, 2237-2238, 2239-2240, 2241-2242, 2243-2244, 2245-2246, 2247-2248, 2249-2250, 2251-2252, 2253-2254, 2255-2256, 2257-2258, 2259-2260, 2261-2262, 2263-2264, 2265-2266, 2267-2268, 2269-2270, 2271-2272, 2273-2274, 2275-2276, 2277-2278, 2279-2280, 2281-2282, 2283-2284, 2285-2286, 2287-2288, 2289-2290, 2291-2292, 2293-2294, 2295-2296, 2297-2298, 2299-2300, 2301-2302, 2303-2304, 2305-2306, 2307-2308, 2309-2310, 2311-2312, 2313-2314, 2315-2316, 2317-2318, 2319-2320, 2321-2322, 2323-2324, 2325-2326, 2327-2328, 2329-2330, 2331-2332, 2333-2334, 2335-2336, 2337-2338, 2339-2340, 2341-2342, 2343-2344, 2345-2346, 2347-2348, 2349-2350, 2351-2352, 2353-2354, 2355-2356, 2357-2358, 2359-2360, 2361-2362, 2363-2364, 2365-2366, 2367-2368, 2369-2370, 2371-2372, 2373-2374, 2375-2376, 2377-2378, 2379-2380, 2381-2382, 2383-2384, 2385-2386, 2387-2388, 2389-2390, 2391-2392, 2393-2394, 2395-2396, 2397-2398, 2399-2400, 2401-2402, 2403-2404, 2405-2406, 2407-2408, 2409-2410, 2411-2412, 2413-2414, 2415-2416, 2417-2418, 2419-2420, 2421-2422, 2423-2424, 2425-2426, 2427-2428, 2429-2430, 2431-2432, 2433-2434, 2435-2436, 2437-2438, 2439-2440, 2441-2442, 2443-2444, 2445-2446, 2447-2448, 2449-2450, 2451-2452, 2453-2454, 2455-2456, 2457-2458, 2459-2460, 2461-2462, 2463-2464, 2465-2466, 2467-2468, 2469-2470, 2471-2472, 2473-2474, 2475-2476, 2477-2478, 2479-2480, 2481-2482, 2483-2484, 2485-2486, 2487-2488, 2489-2490, 2491-2492, 2493-2494, 2495-2496, 2497-2498, 2499-2500, 2501-2502, 2503-2504, 2505-2506, 2507-2508, 2509-2510, 2511-2512, 2513-2514, 2515-2516, 2517-2518, 2519-2520, 2521-2522, 2523-2524, 2525-2526, 2527-2528, 2529-2530, 2531-2532, 2533-2534, 2535-2536, 2537-2538, 2539-2540, 2541-2542, 2543-2544, 2545-2546, 2547-2548, 2549-2550, 2551-2552, 2553-2554, 2555-2556, 2557-2558, 2559-2560, 2561-2562, 2563-2564, 2565-2566, 2567-2568, 2569-2570, 2571-2572, 2573-2574, 2575-2576, 2577-2578, 2579-2580, 2581-2582, 2583-2584, 2585-2586, 2587-2588, 2589-2590, 2591-2592, 2593-2594, 2595-2596, 2597-2598, 2599-2600, 2601-2602, 2603-2604, 2605-2606, 2607-2608, 2609-2610, 2611-2612, 2613-2614, 2615-2616, 2617-2618, 2619-2620, 2621-2622,

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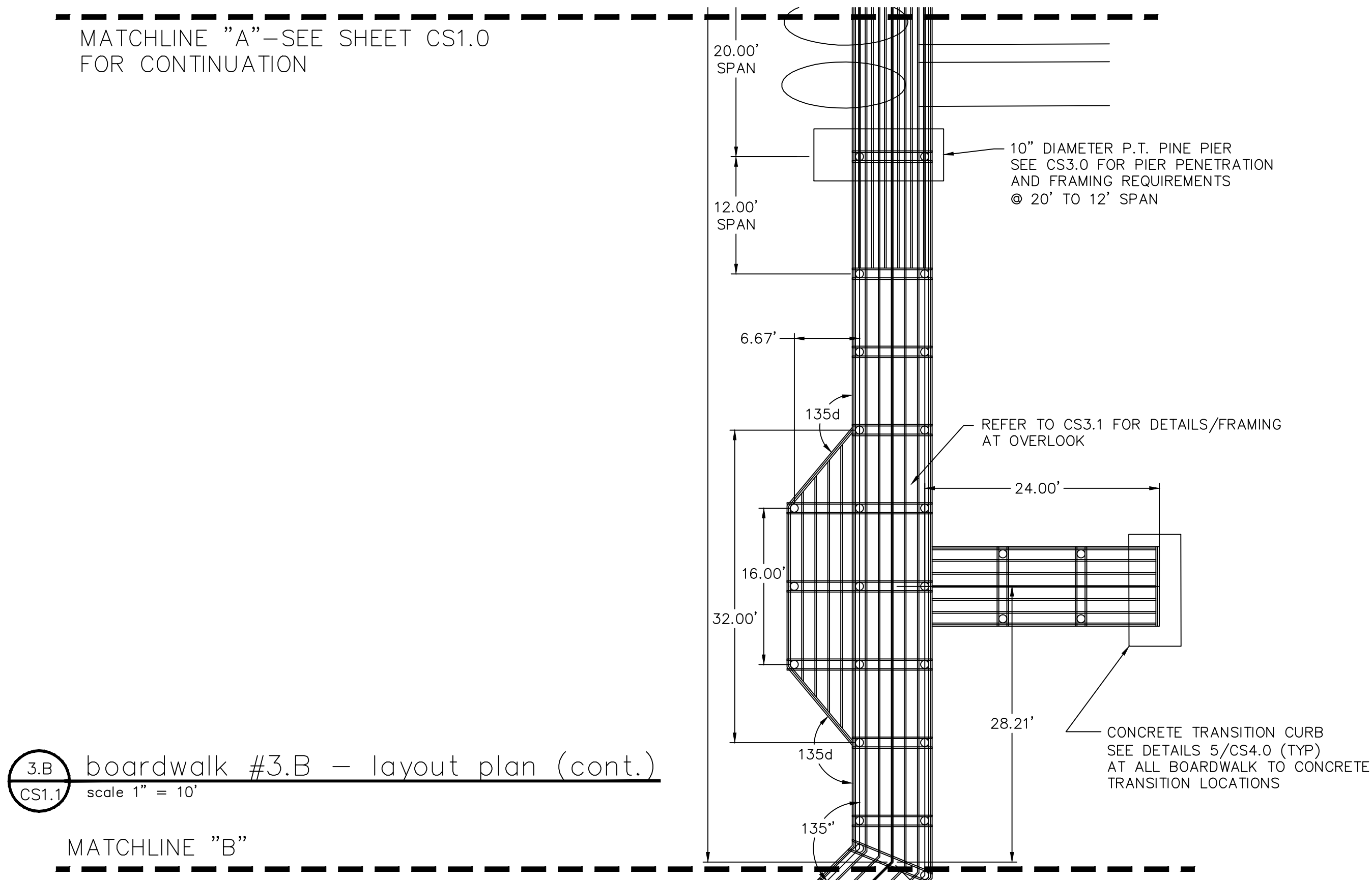
FOR
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 TAMPA, FL 33607

JOSEPH W. BELT P.E.
 CONSULTING ENGINEER
 REGISTRATION NUMBER 45147
 5004-C W. LINEBAUGH AVE.
 TAMPA, FLORIDA 33624
 PHONE: (813) 961-3075
 FAX: (813) 961-1031
 email: jbelt@belengineering.com
 I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF ALL OF THE STRUCTURAL ELEMENTS AND SYSTEMS FOR THIS STRUCTURE HAVE BEEN DESIGNED TO BE IN COMPLIANCE WITH THE 2010 FLORIDA BUILDING CODE, ALL OTHER ELEMENTS, SYSTEMS AND ASSEMBLIES ARE THE TOTAL RESPONSIBILITY OF OTHERS.

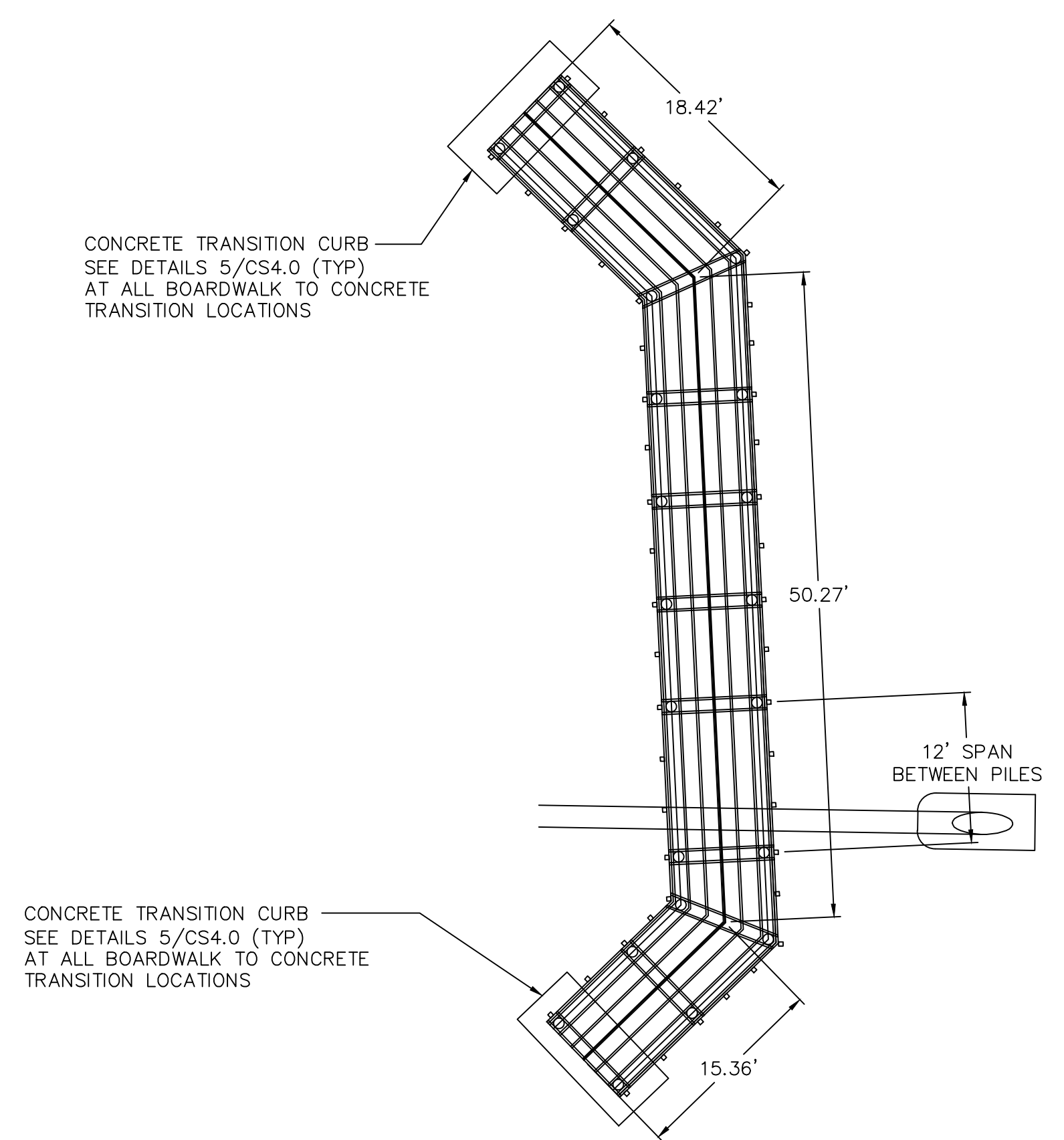
PROJECT
 OSBORNE AVENUE POND
 PROPOSED BOARDWALK
 BOARDWALK LAYOUT PLAN DETAILS

SHEET
 CS1.0
 JOB NO.
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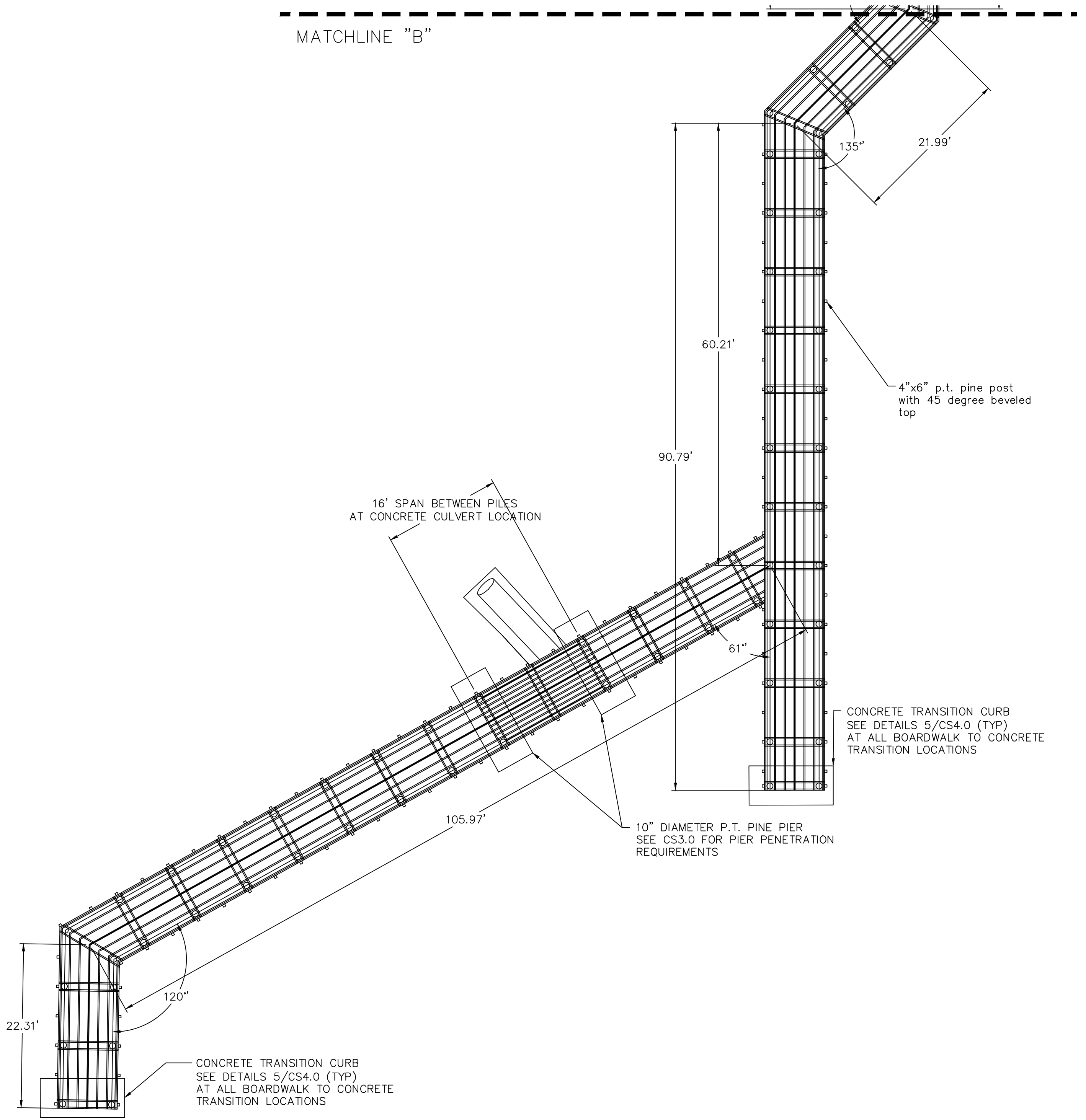
BID SET 11/04/13



3.B boardwalk #3.B — layout plan (cont.)
CS1.1 scale 1" = 10'



4 boardwalk #4 — layout plan
CS1.1 scale 1" = 10'

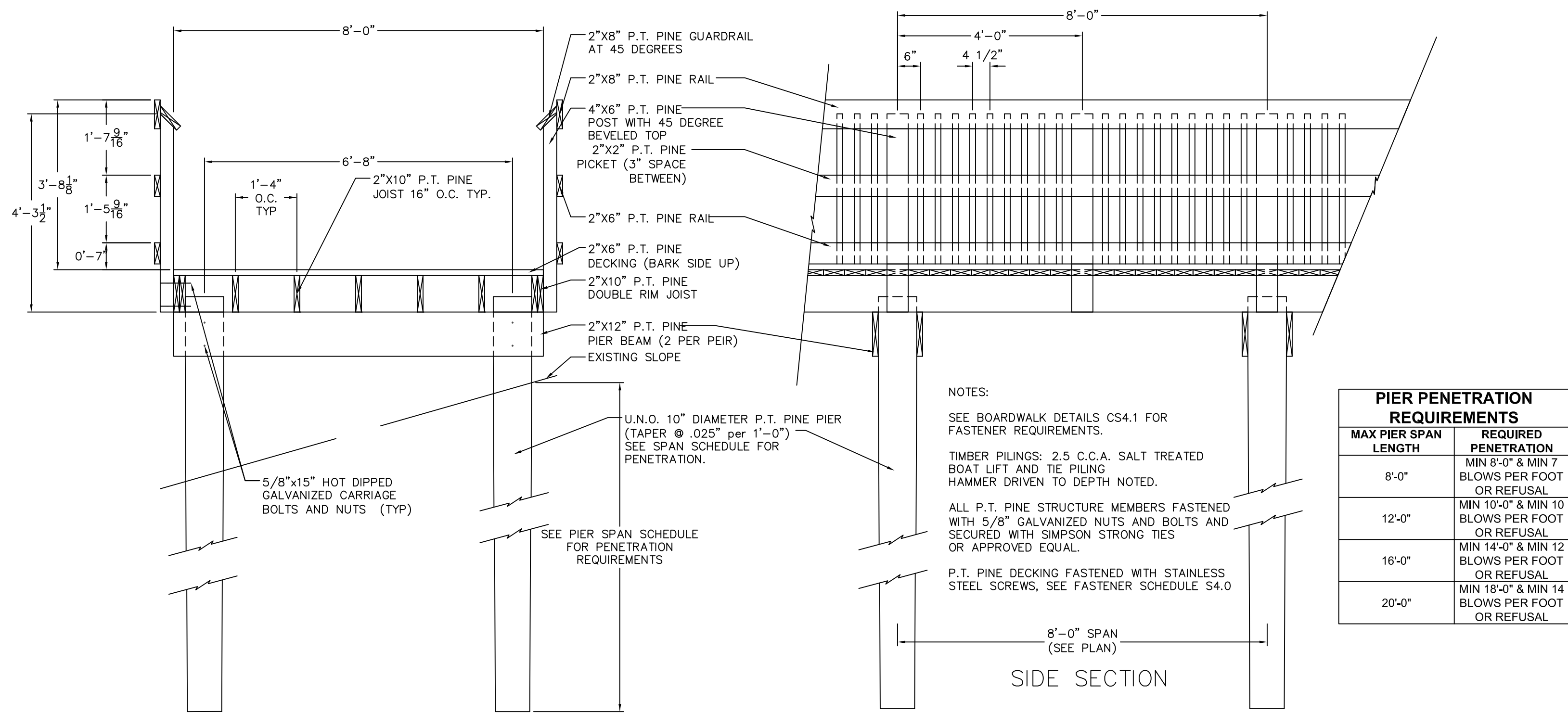


3.C boardwalk #3.C — layout plan (cont.)
CS1.1 scale 1" = 10'

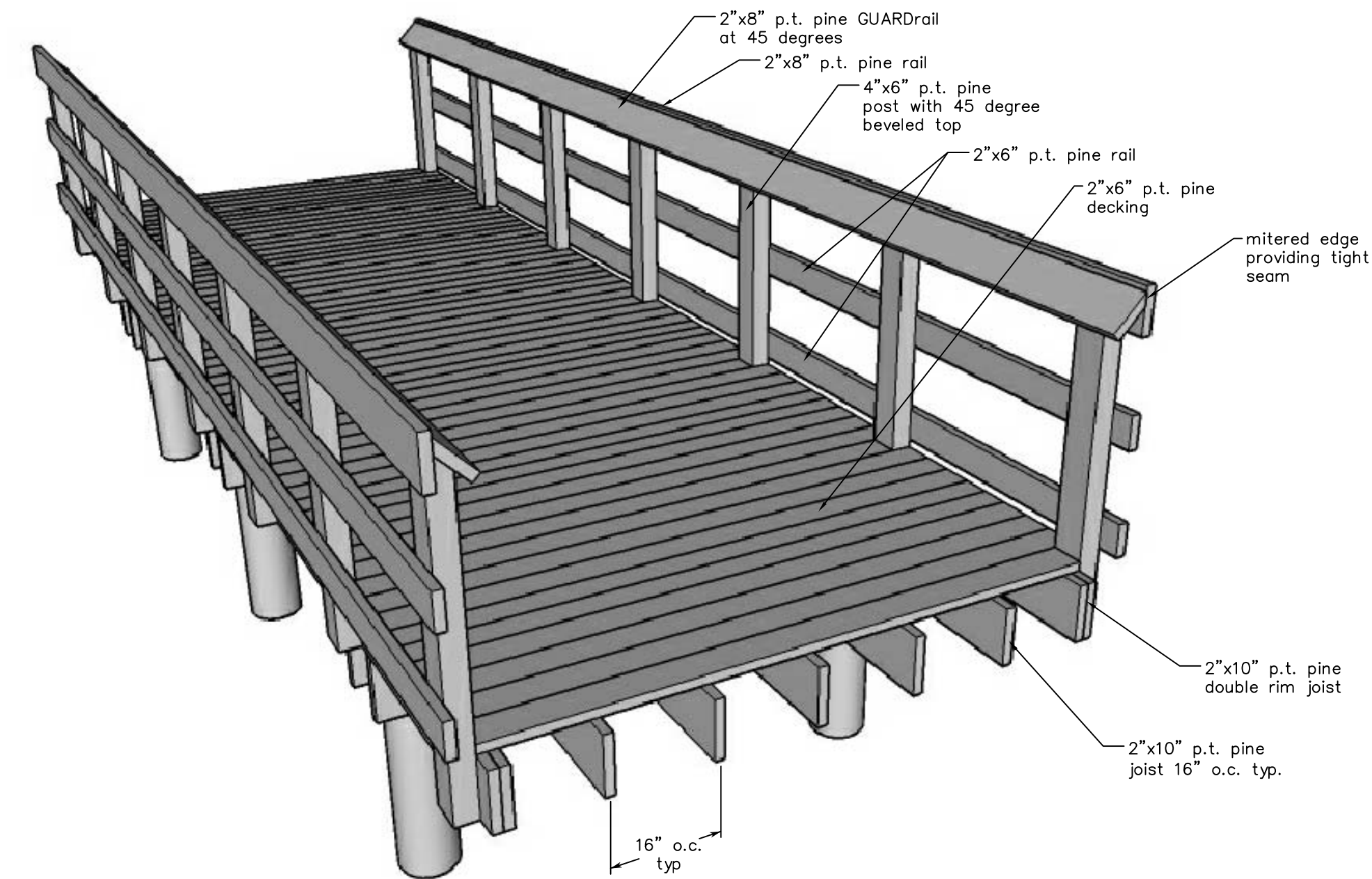
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			BOARDWALK LAYOUT PLAN DETAILS	JOB NO. 13-016

BID SET 11/04/13

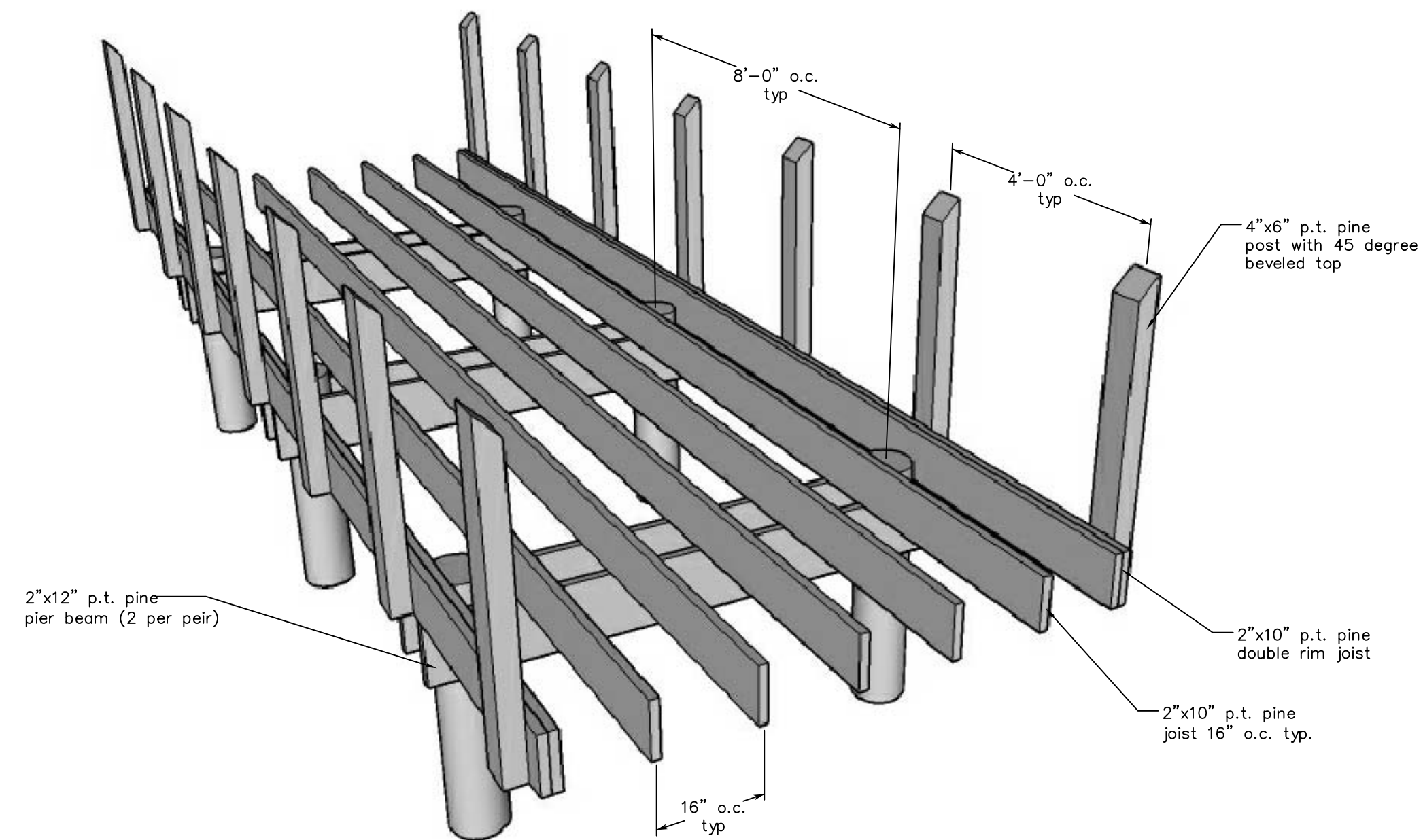
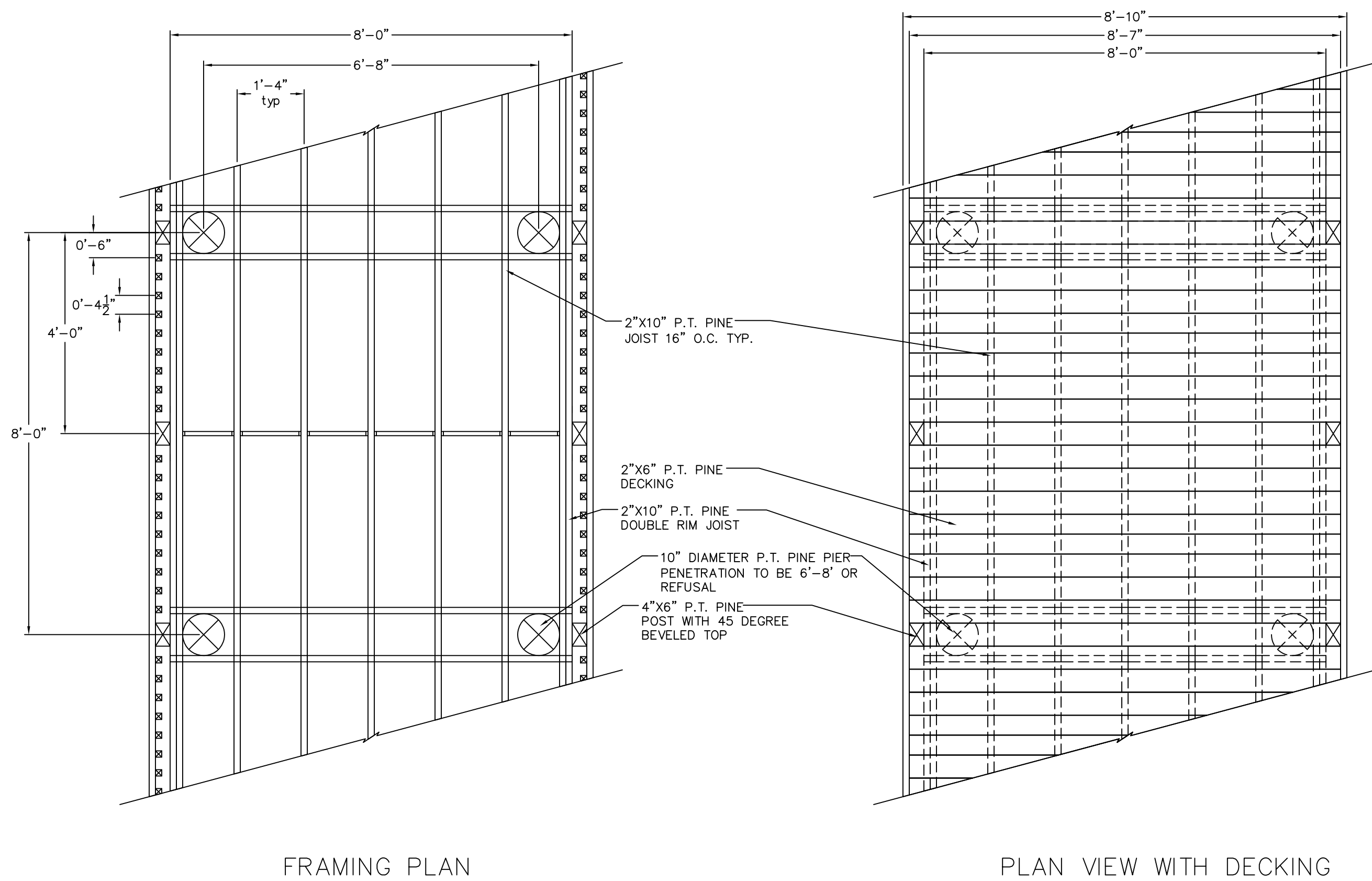


PIER PENETRATION REQUIREMENTS	
MAX PIER SPAN LENGTH	REQUIRED PENETRATION
8'-0"	MIN 8'-0" & MIN 7 BLOWS PER FOOT OR REFUSAL
12'-0"	MIN 10'-0" & MIN 10 BLOWS PER FOOT OR REFUSAL
16'-0"	MIN 14'-0" & MIN 12 BLOWS PER FOOT OR REFUSAL
20'-0"	MIN 18'-0" & MIN 14 BLOWS PER FOOT OR REFUSAL



1 PROPOSED 8'-0" BOARDWALK FRAMING DETAILS – TYPICAL SECTION VIEWS
CS3.0 scale 1/2" = 1'-0"

2 PROPOSED BOARDWALK – TYPICAL 8' SPAN SCHEMATIC VIEW
CS3.0 scale: n.t.s.

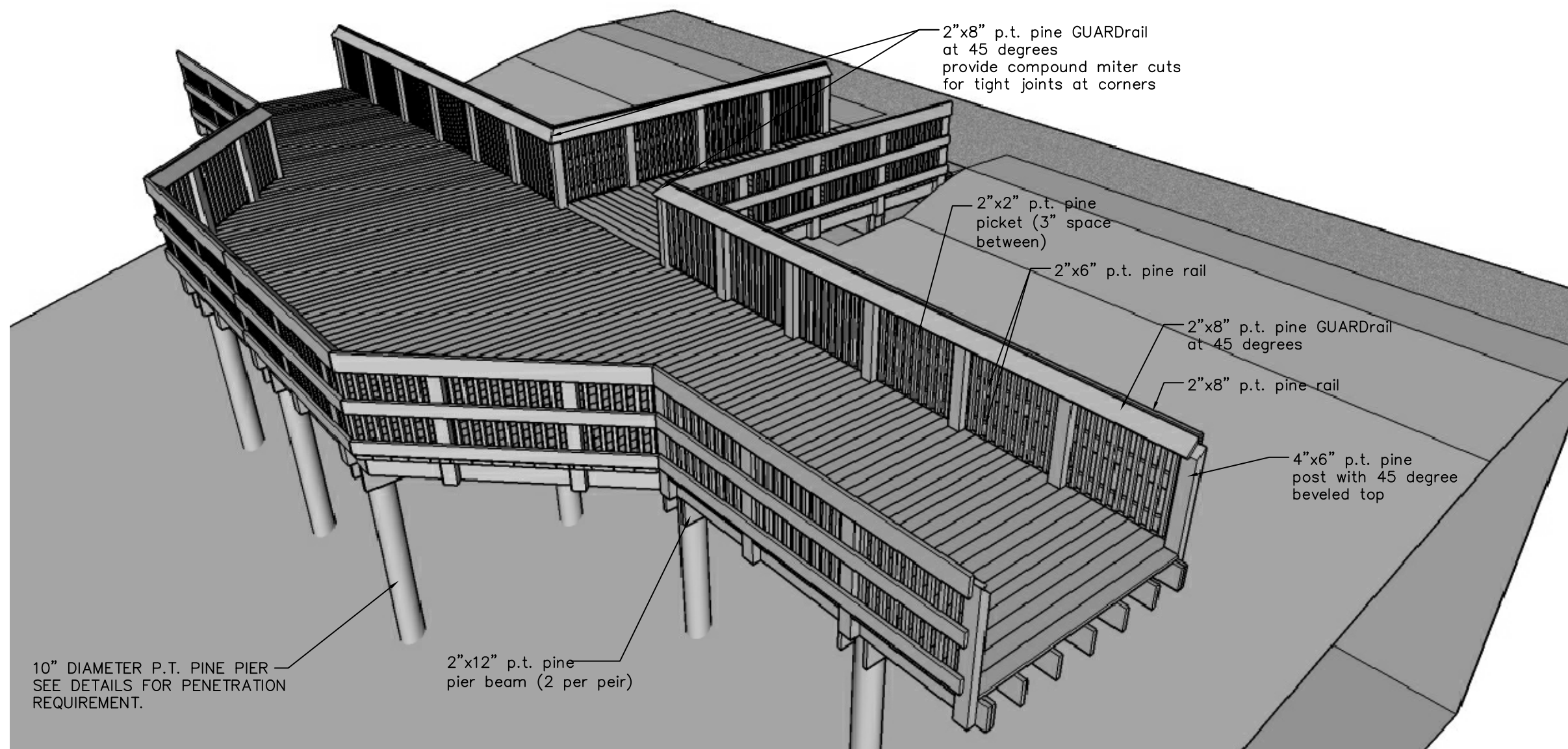


3 PROPOSED 8'-0" SPAN BOARDWALK FRAMING DETAILS – TYPICAL PLAN VIEWS
CS3.0 scale 1/2" = 1'-0"

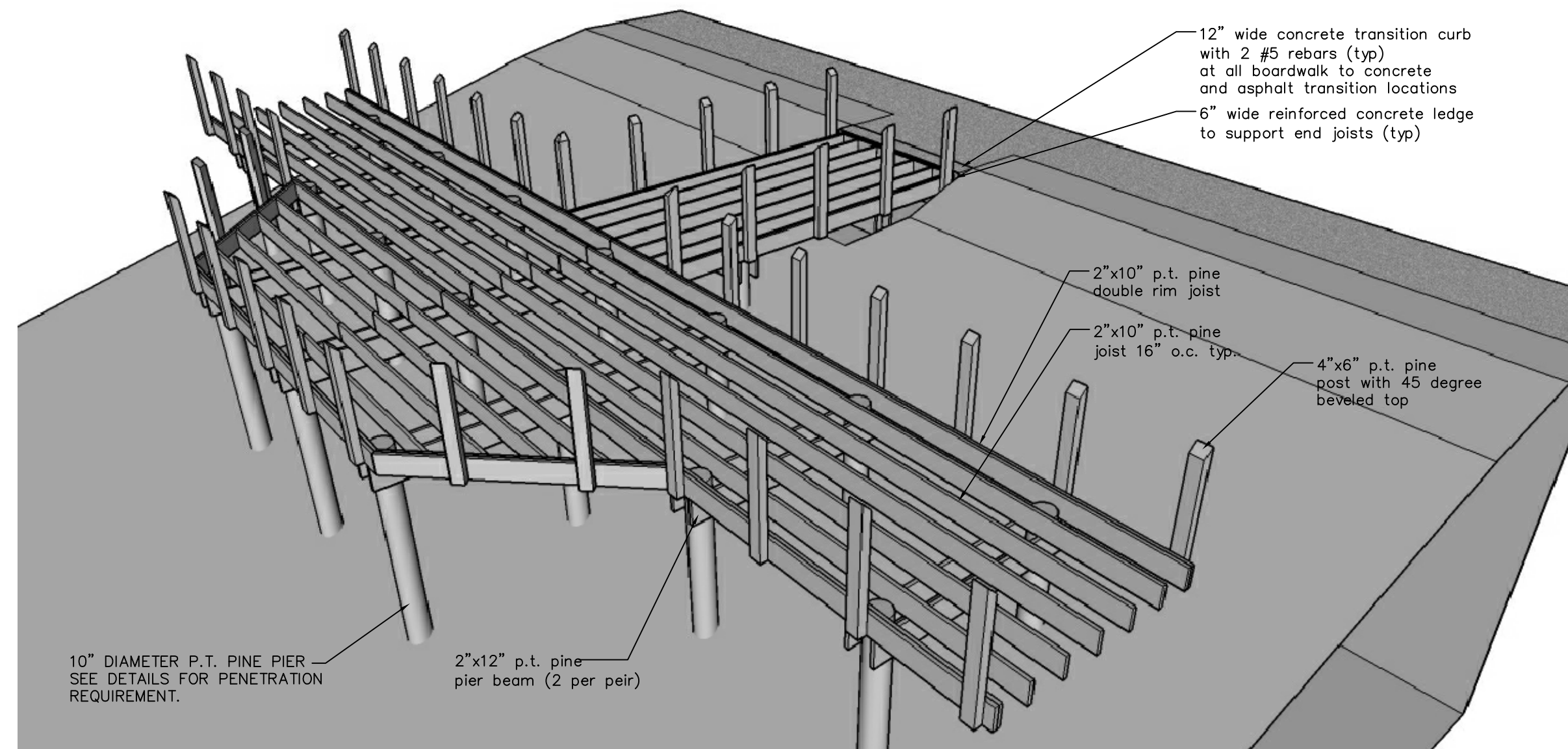
4 PROPOSED BOARDWALK – TYPICAL 8' SPAN SCHEMATIC FRAMING VIEW
CS3.0 scale: n.t.s.

BID SET 11/04/13

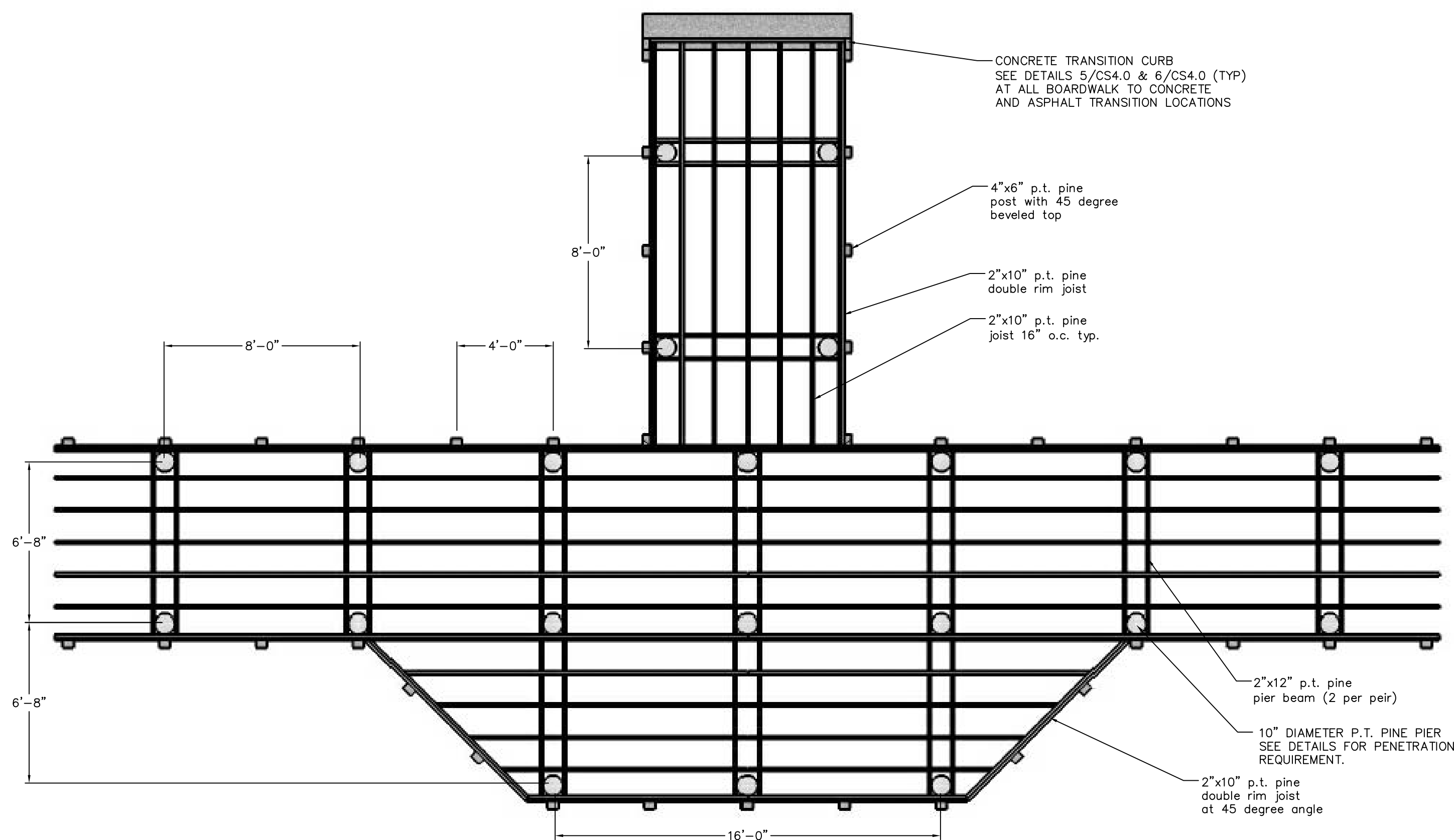
REVISIONS						FOR	PROJECT	SHEET
BY	DATE	DESCRIPTION	BY	DATE	DESCRIPTION			
						CITY OF TAMPA PARKS AND RECREATION DEPARTMENT 3402 W. COLUMBUS DRIVE TAMPA, FL 33607	OSBORNE AVENUE POND PROPOSED BOARDWALK BOARDWALK FRAMING DETAILS	CS3.0
								JOB NO.
								13-016
MILLS and ASSOCIATES, INC. CONSULTING ENGINEERS & LAND SURVEYORS 3242 HENDERSON BOULEVARD – SUITE 300 TAMPA, FLORIDA 33609-3056 TELEPHONE: (813) 876-5869						JOSEPH W. BELT P.E. CONSULTING ENGINEER REGISTRATION NUMBER 45147 5004-C W. LINEBAUGH AVE. TAMPA, FLORIDA 33624 PHONE: (813) 961-3075 FAX: (813) 961-1031 email: jbelt@jwbelengineering.com I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF ALL OF THE STRUCTURAL ELEMENTS AND SYSTEMS FOR THIS STRUCTURE HAVE BEEN DESIGNED TO BE IN COMPLIANCE WITH THE 2010 FLORIDA BUILDING CODE, ALL OTHER ELEMENTS, SYSTEMS AND ASSEMBLIES ARE THE TOTAL RESPONSIBILITY OF OTHERS.		



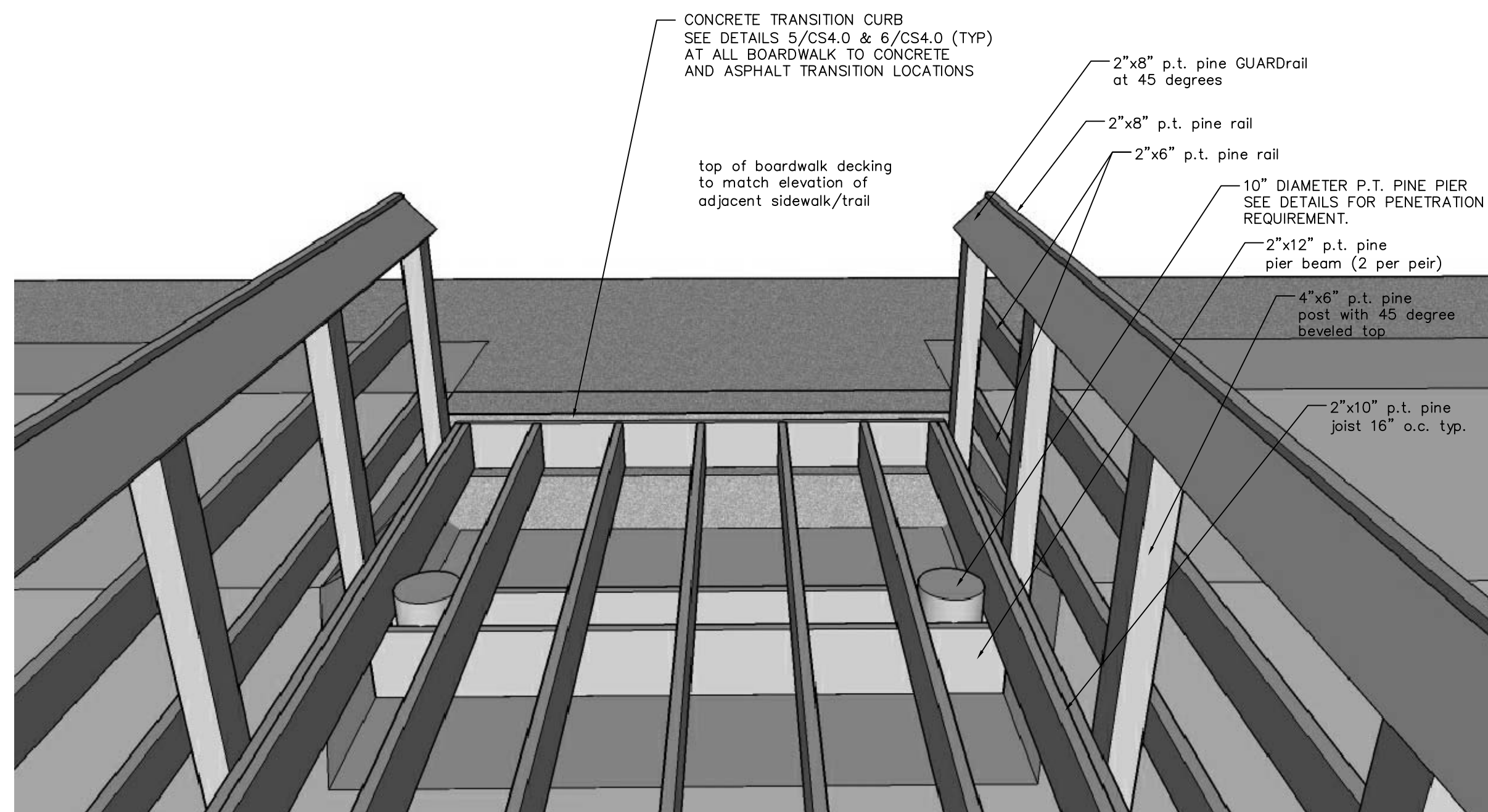
1 PROPOSED BOARDWALK OVERLOOK – SCHEMATIC VIEW
scale: n.t.s.



2 PROPOSED BOARDWALK OVERLOOK – SCHEMATIC FRAMING VIEW
scale: n.t.s.



3 PROPOSED BOARDWALK OVERLOOK – FRAMING PLAN
scale: 1/4" = 1'-0"



4 PROPOSED BOARDWALK – CONNECTION TO SIDEWALK SCHEMATIC VIEW
scale: n.t.s.

REVISIONS					
BY	DATE	DESCRIPTION	BY	DATE	DESCRIPTION

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FOR

CITY OF TAMPA
PARKS AND RECREATION DEPARTMENT
3402 W. COLUMBUS DRIVE
TAMPA, FL 33607

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PROJECT

OSBORNE AVENUE POND
PROPOSED BOARDWALK

OVERLOOK FRAMING DETAILS

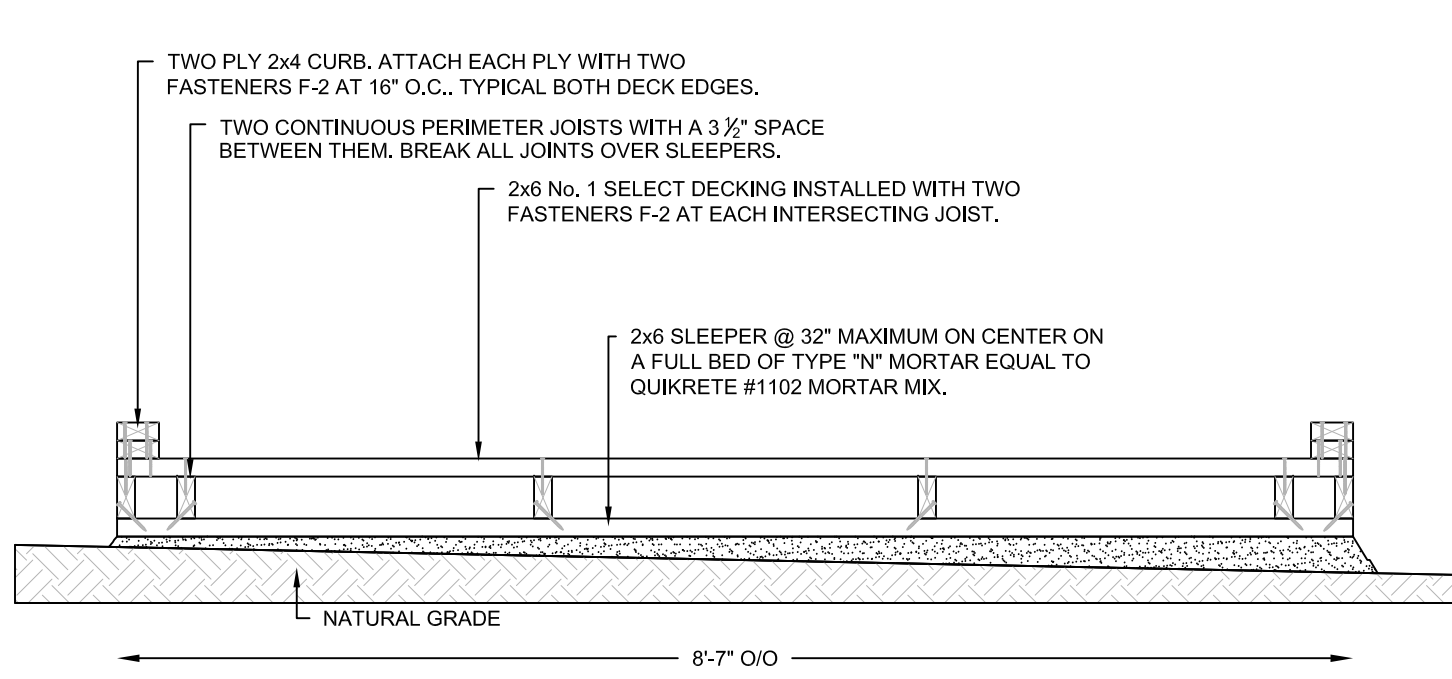
SHEET

CS3.1

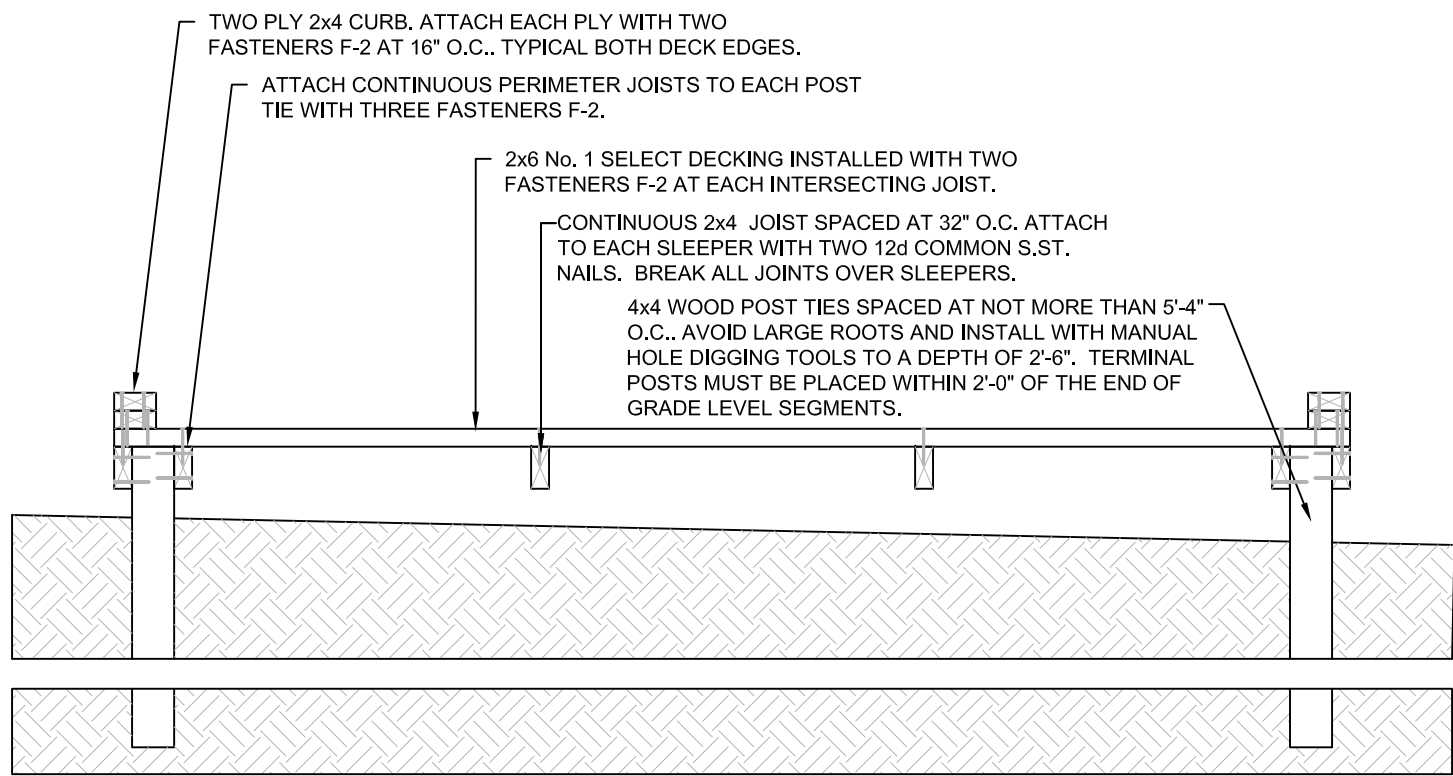
JOB NO.

13-016

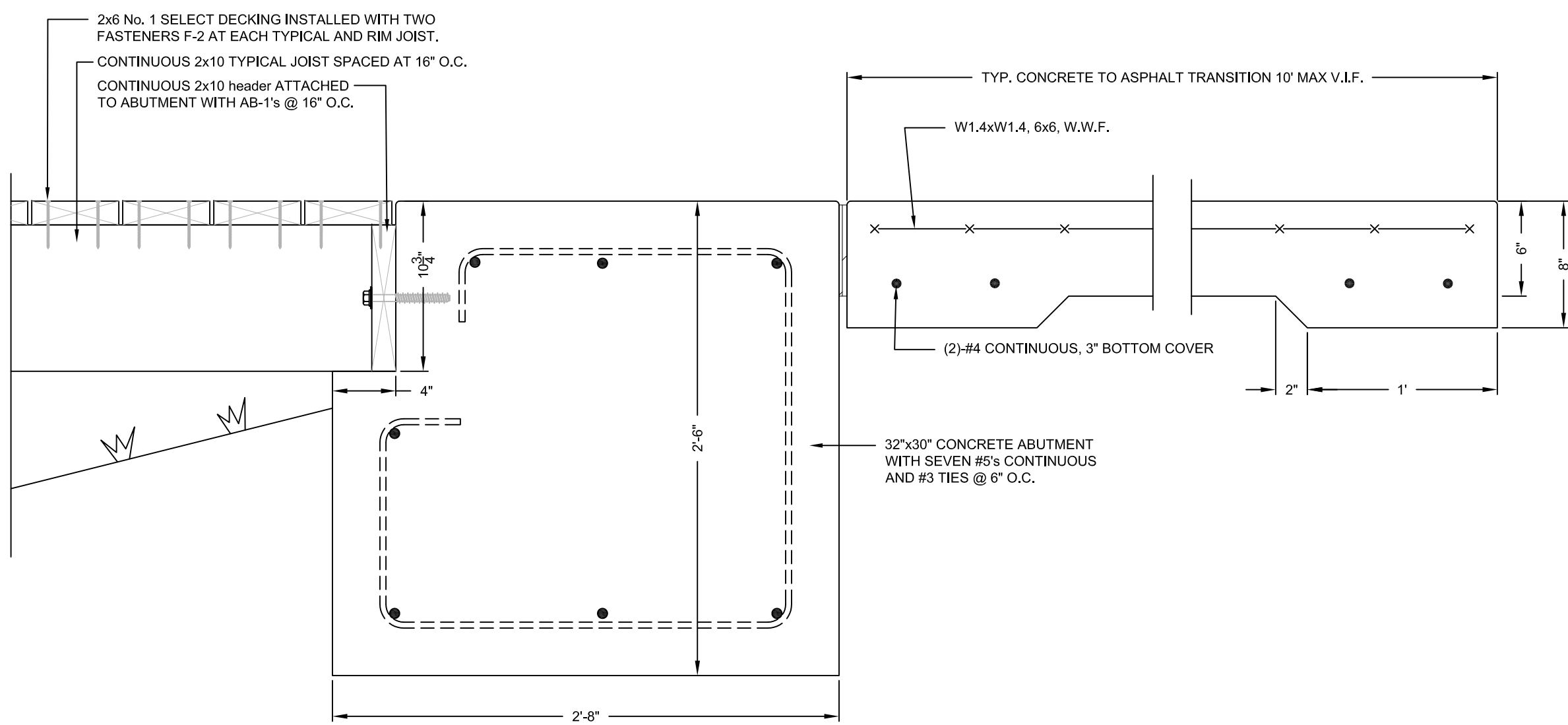
BID SET 11/04/13



1 TYPICAL GRADE LEVEL DECK AT SLEEPERS
CS4.0 SCALE 3/4" = 1'-0"



2 TYPICAL GRADE LEVEL DECK AT POST TIES
CS4.0 SCALE 3/4" = 1'-0"



5 TYPICAL DECK TO CONCRETE DETAIL
CS4.0 SCALE 1-1/2" = 1'-0"

FASTENER SCHEDULE FULL SCALE

- AB-1 1/2" x 4" TYPE 410 S. ST. CONCRETE SCREW WITH FLAT WASHER
- F-1 FLAT HEAD TYPE 305 S. ST.#10x2 1/2" WOOD SCREW TYPE 17 POINT
- F-2 FLAT HEAD TYPE 305 S. ST.#10x3" WOOD SCREW TYPE 17 POINT

- CB-1 1/2" x 15" H.D.G. CARRIAGE BOLT WITH NUT AND FLAT WASHER
- CB-2 1/2" x 17" H.D.G. CARRIAGE BOLT WITH NUT AND FLAT WASHER
- CB-3 1/2" x 7 1/2" TYPE 305 S. ST. CARRIAGE BOLT WITH NUT AND FLAT WASHER
- CB-4 1/2" x 10" TYPE 305 S. ST. CARRIAGE BOLT WITH NUT AND FLAT WASHER

- CB-5 1/2" x 12" TYPE 305 S. ST. CARRIAGE BOLT WITH NUT AND FLAT WASHER
- CB-6 1/2" x 14" TYPE 305 S. ST. CARRIAGE BOLT WITH NUT AND FLAT WASHER

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FOR
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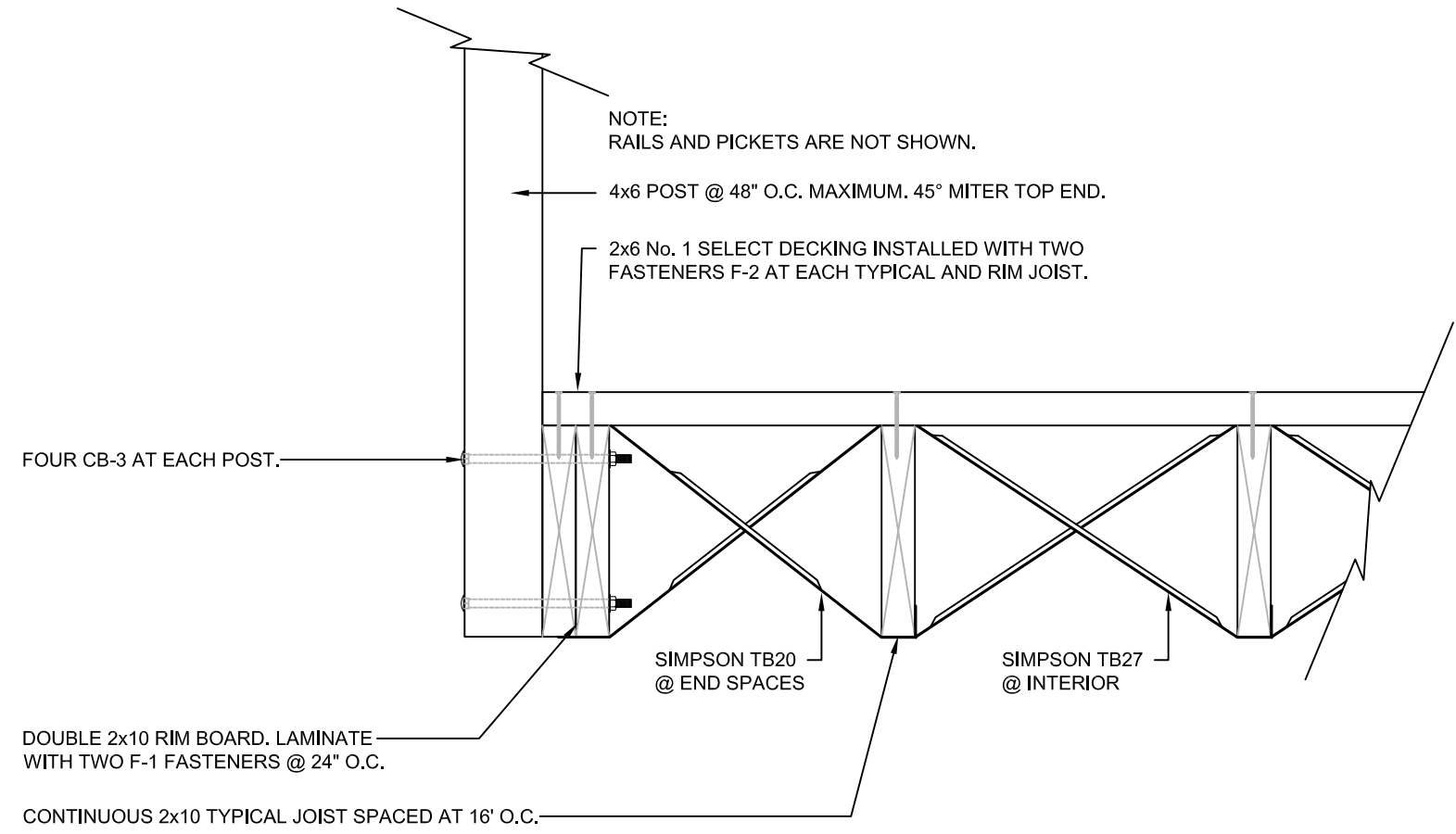
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PROJECT
OSBORNE AVENUE POND
PROPOSED BOARDWALK

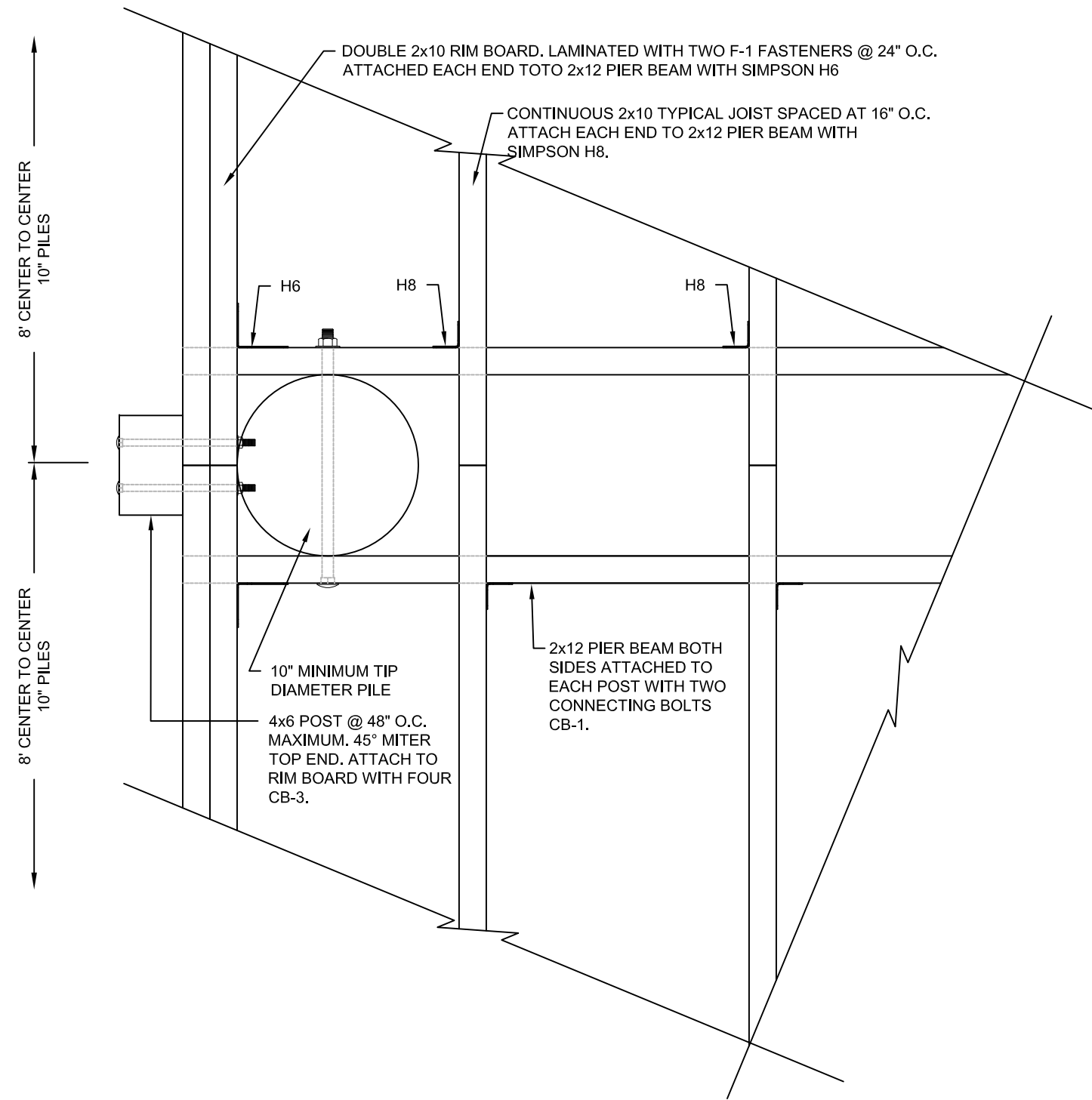
BOARDWALK FRAMING DETAILS

SHEET
CS4.0
JOB NO.
13-016

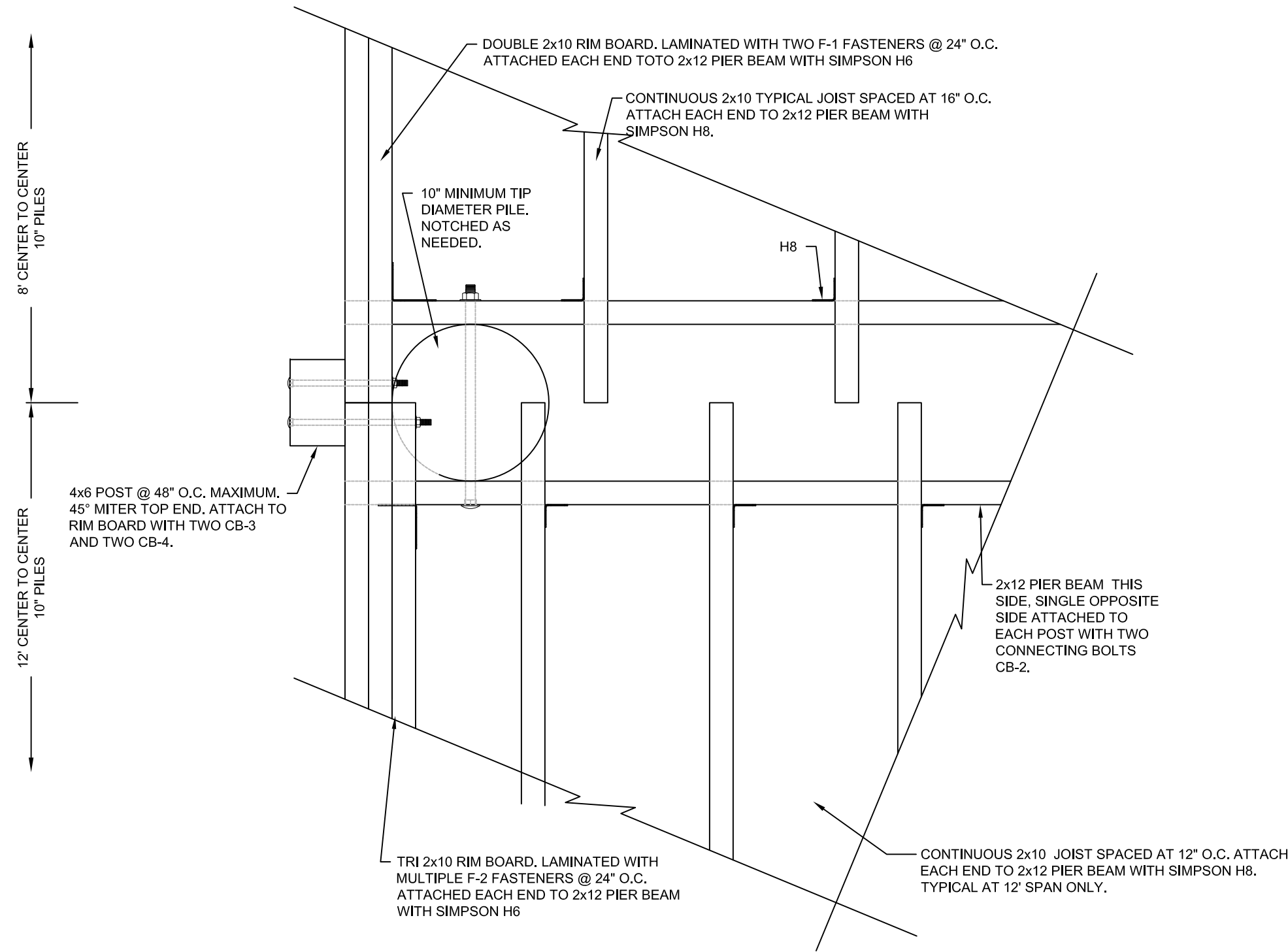
BID SET 11/04/13



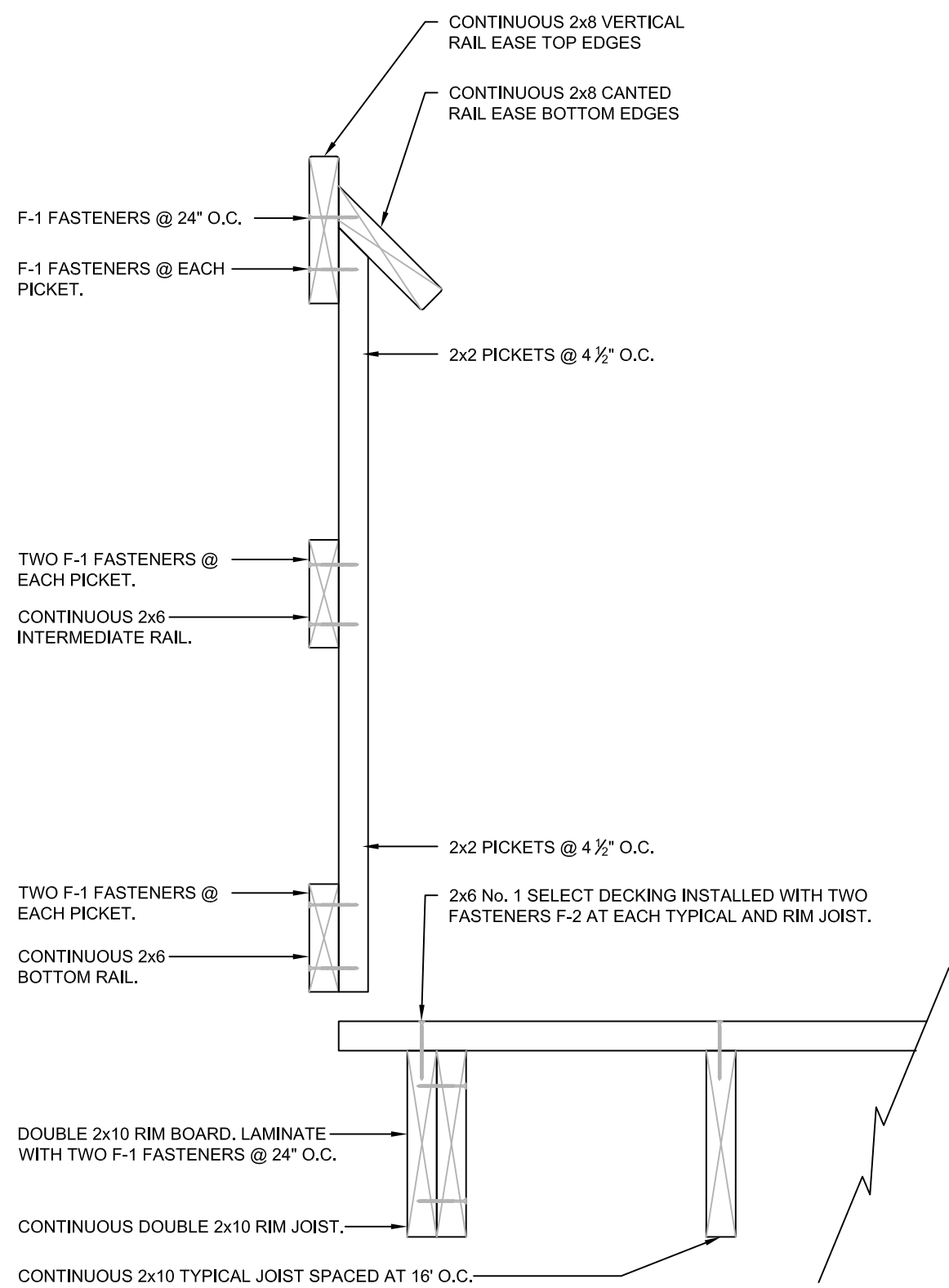
1 TYP BOARDWALK INTERIOR JOIST BRACING DETAIL
CS4.1 SCALE 1-1/2" = 1'-0"



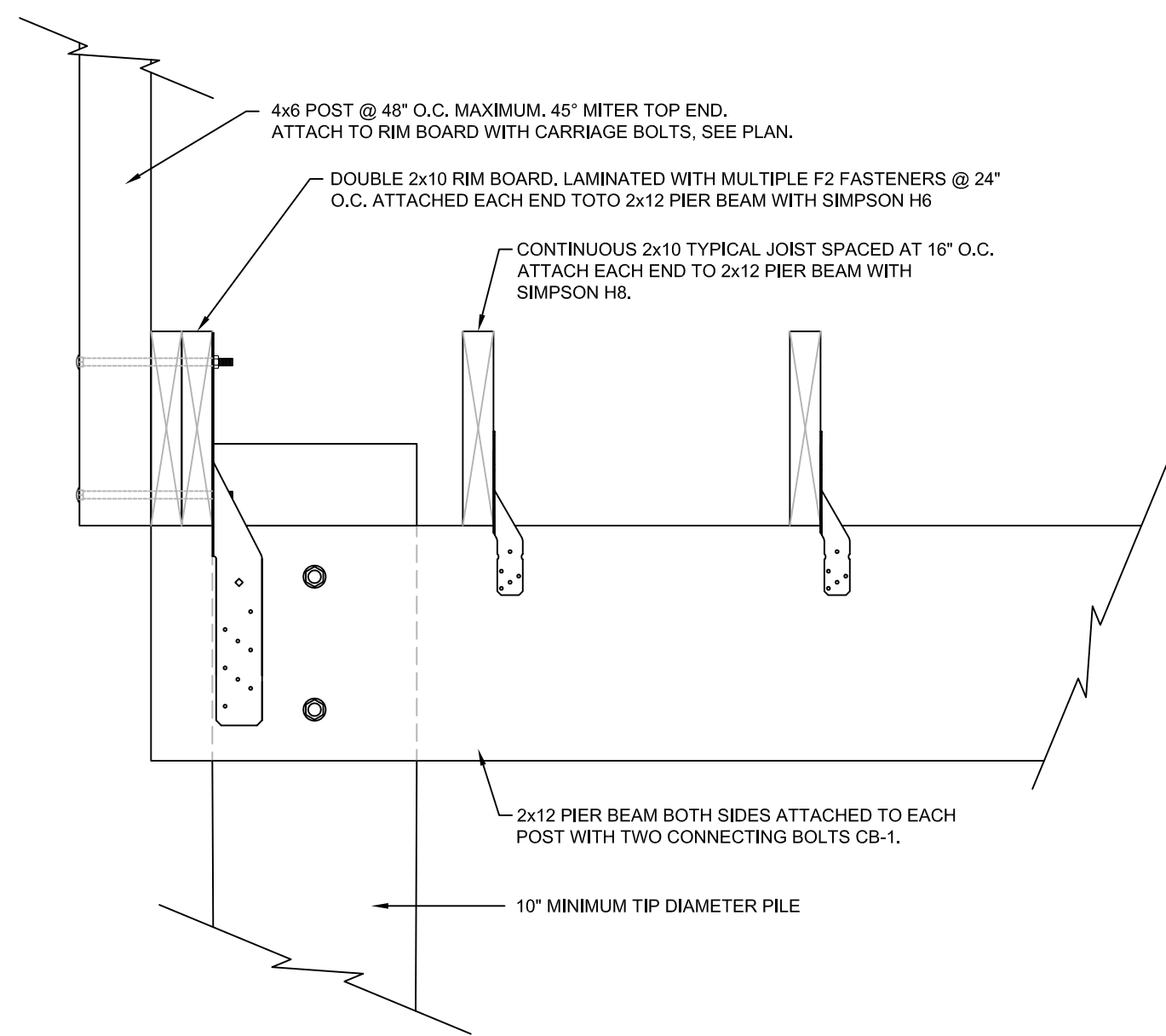
2 TYP. 8'-0" SPAN BOARDWALK FRAMING PLAN DETAIL
CS4.1 SCALE 1-1/2" = 1'-0"



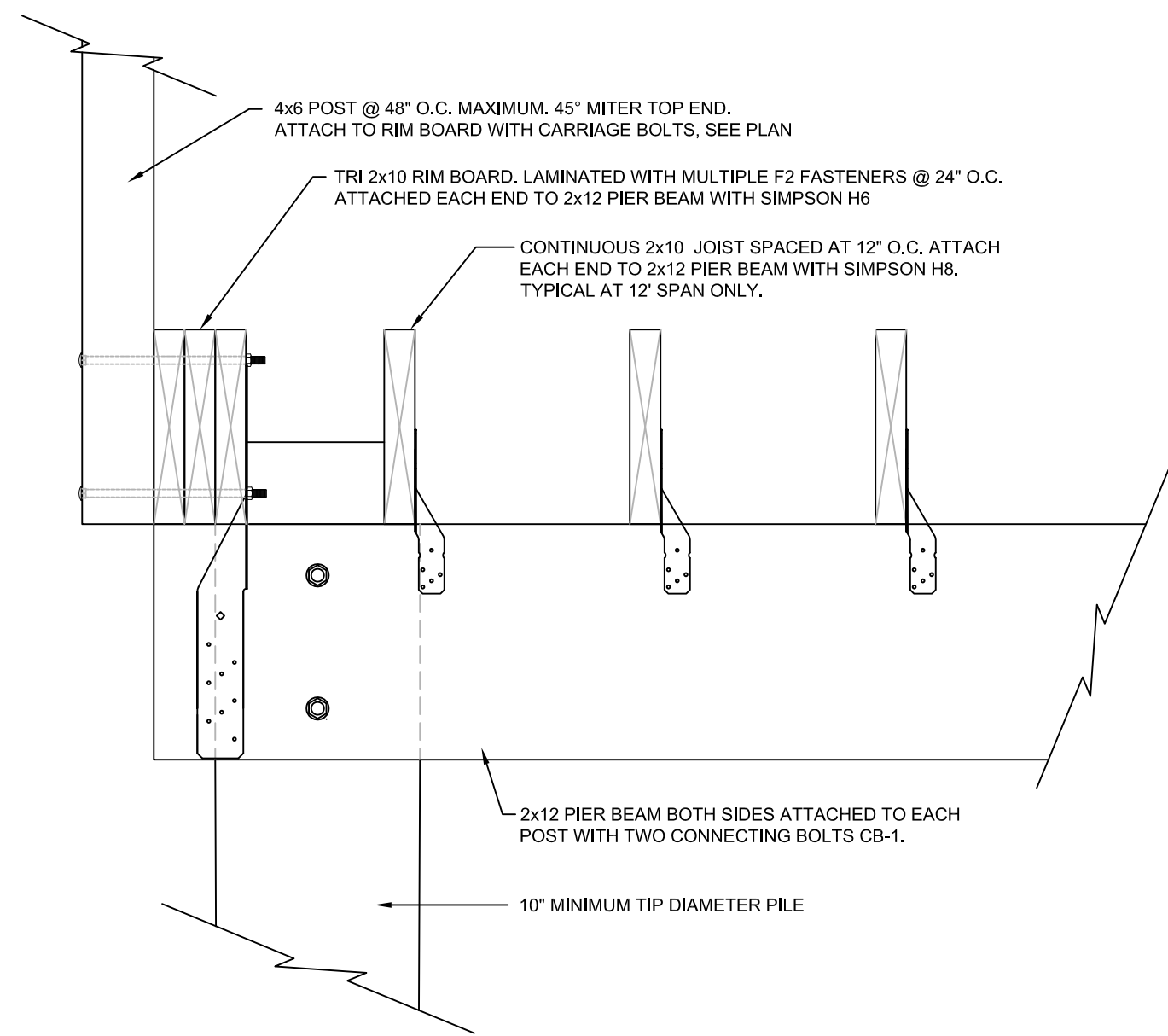
3 12'-0" TO 8'-0" SPAN BOARDWALK FRAMING PLAN DETAIL
CS4.1 SCALE 1-1/2" = 1'-0"



4 TYP. BOARDWALK RAILING DETAIL (SHOWN @ 8'-0" SPAN)
CS4.1 SCALE 1-1/2" = 1'-0"



5 8'-0" SPAN BOARDWALK JOIST FRAMING DETAIL
CS4.1 SCALE 1-1/2" = 1'-0"



6 12'-0" SPAN BOARDWALK JOIST FRAMING DETAIL
CS4.1 SCALE 1-1/2" = 1'-0"

BID SET 11/04/13

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PROJECT

OSBORNE AVENUE POND
PROPOSED BOARDWALK

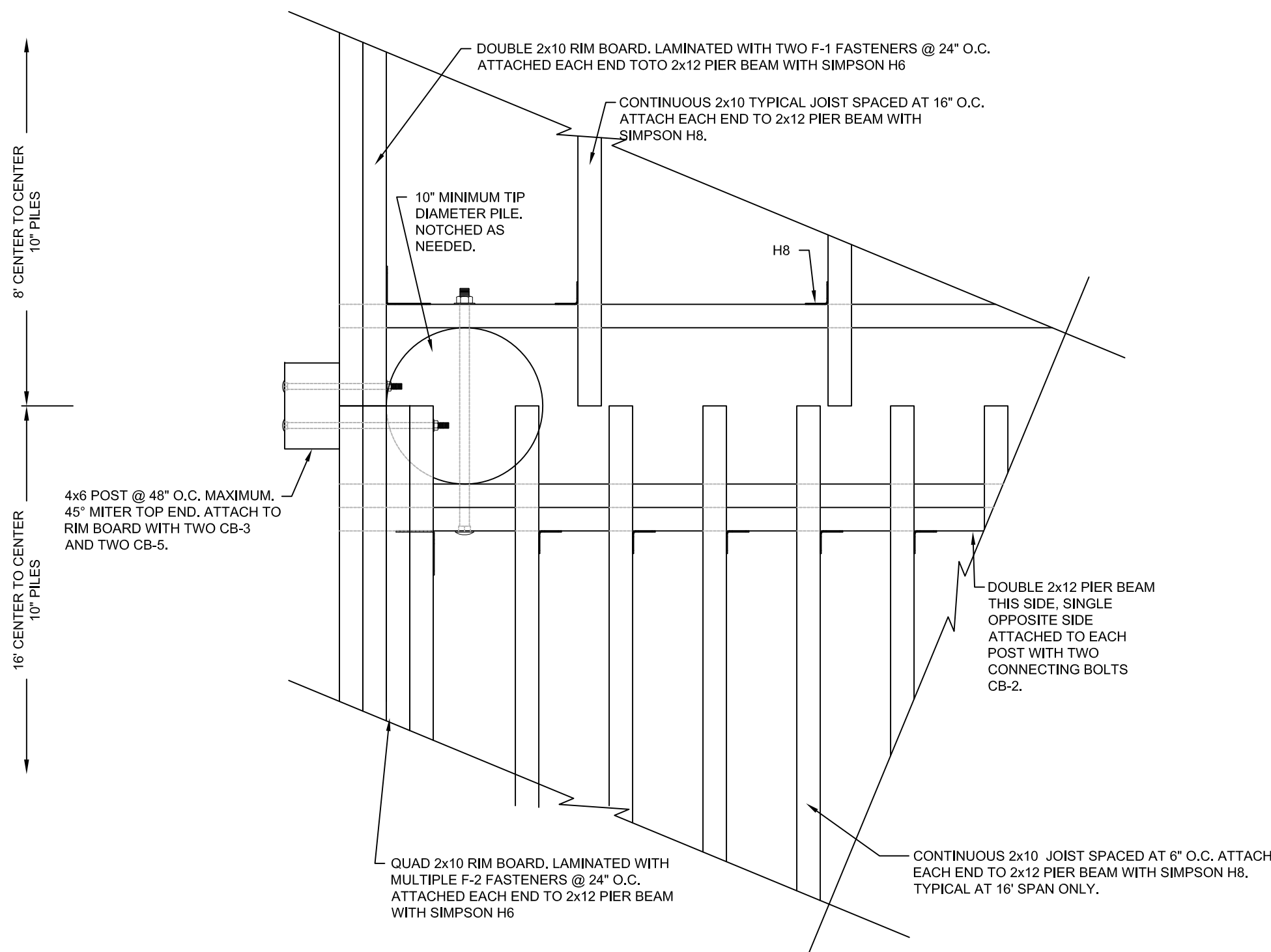
BOARDWALK FRAMING DETAILS

SHEET

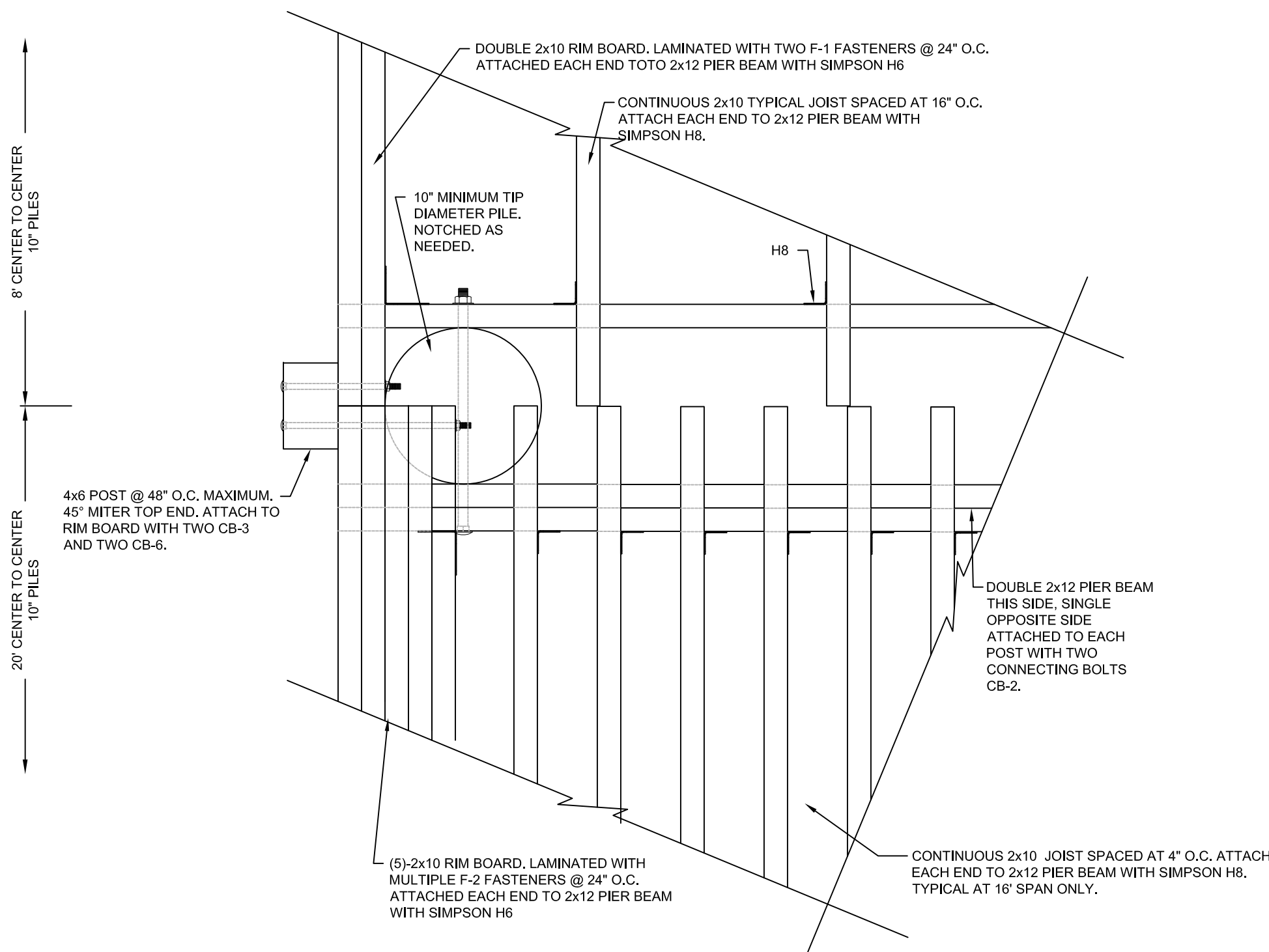
CS4.1

JOB NO.

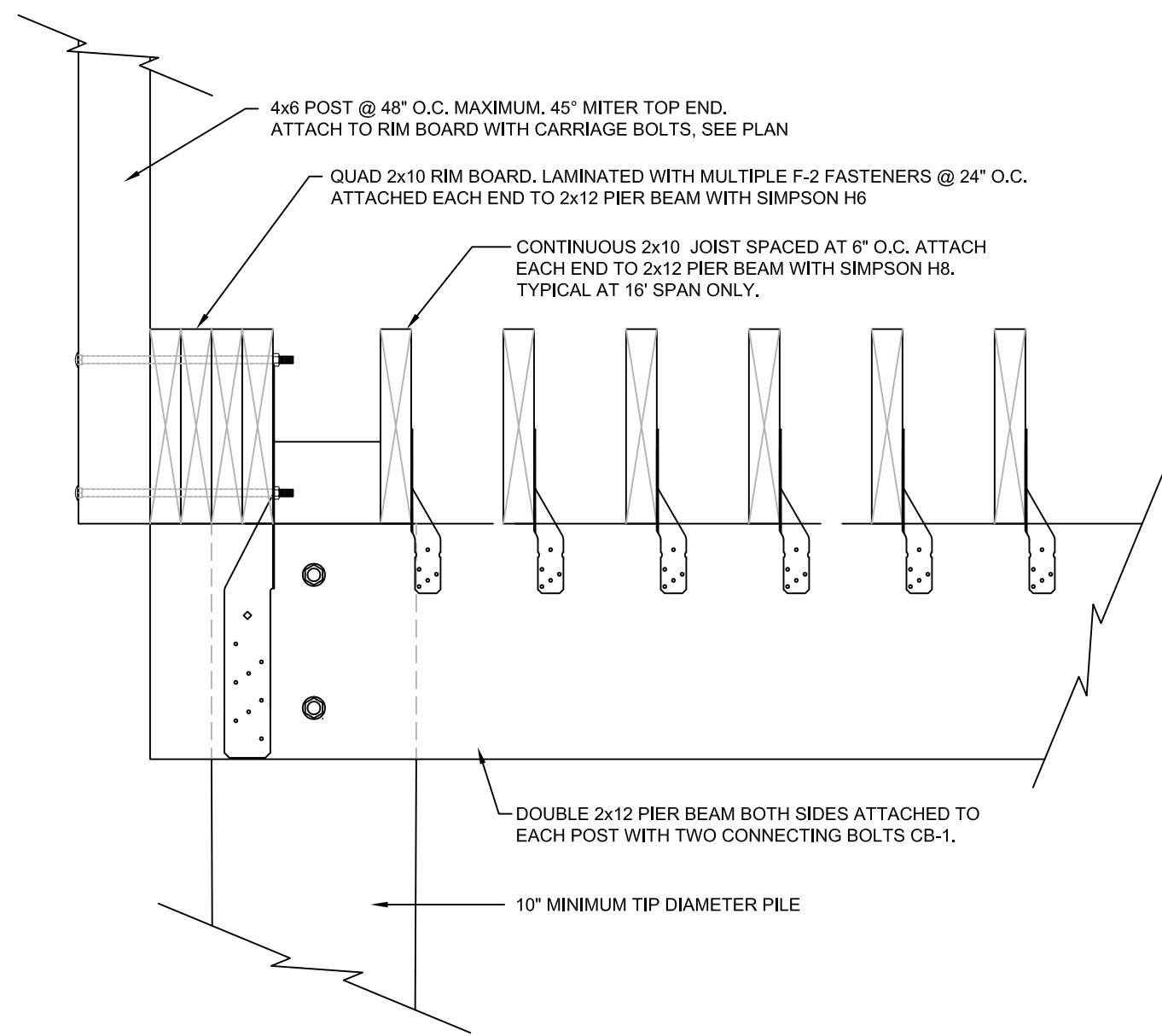
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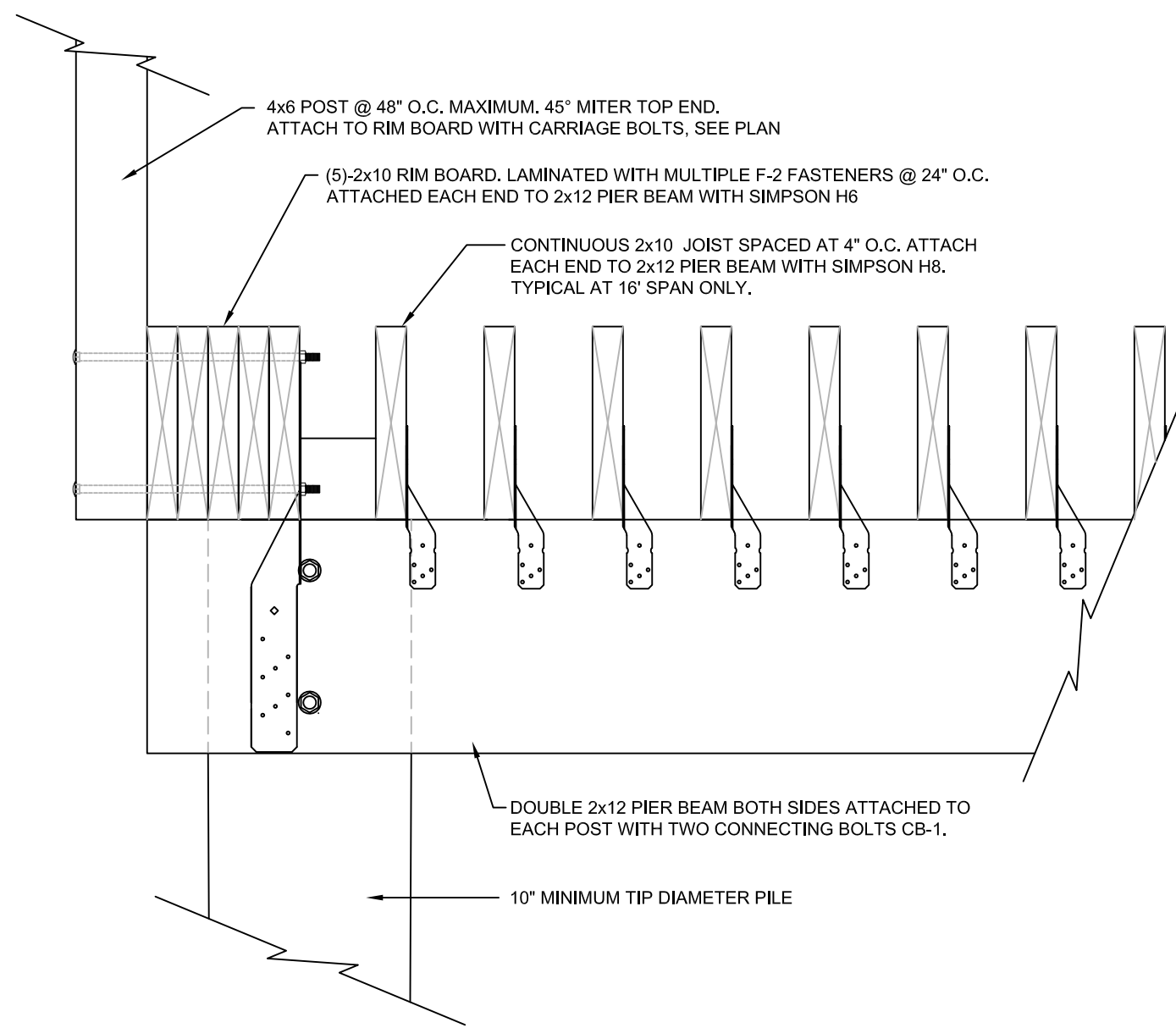
3 16'-0" TO 8'-0" SPAN BOARDWALK FRAMING PLAN DETAIL
CS4.1 SCALE 1-1/2" = 1'-0"



3 20'-0" TO 8'-0" SPAN BOARDWALK FRAMING PLAN DETAIL
CS4.1 SCALE 1-1/2" = 1'-0"



1 16'-0" SPAN BOARDWALK JOIST FRAMING DETAIL
CS4.2 SCALE 1-1/2" = 1'-0"



1 20'-0" SPAN BOARDWALK JOIST FRAMING DETAIL
CS4.2 SCALE 1-1/2" = 1'-0"

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PROJECT

OSBORNE AVENUE POND
PROPOSED BOARDWALK

BOARDWALK FRAMING DETAILS

SHEET

CS4.2

JOB NO.

13-016

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