

IMPROVEMENT PLANS

CITY OF HERMOSA BEACH PARKING LOT "D"

1331 MANHATTAN AVENUE, HERMOSA BEACH, CA 90254

PUBLIC WORKS STANDARD NOTES

GENERAL CONSTRUCTION NOTES:

- CONSTRUCTION WORK HOURS ARE LIMITED TO 8:00 AM TO 6:00 PM, MONDAY THROUGH FRIDAY. WORK PROHIBITED ON SATURDAYS, SUNDAYS AND NATIONAL HOLIDAYS.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THESE PLANS, THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ("GREENBOOK"), AND CITY OF HERMOSA BEACH PUBLIC WORKS STANDARD PLANS.
- ALL WORK DONE WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE DONE BY A LICENSED CONTRACTOR WITH A CLASS A, C-12 OR C-34 LICENSE FOR ALL TRENCHING AND PAVING OR A CLASS C-08 LICENSE FOR ALL CONCRETE WORK. A CLASS B LICENSE MAY BE ACCEPTABLE FOR MINOR CURBS, GUTTERS AND SIDEWALK WORK CONSTRUCTED IN CONJUNCTION WITH A SINGLE FAMILY RESIDENTIAL STRUCTURE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL NECESSARY PERMITS. PUBLIC WORKS TEMPORARY ENCROACHMENT PERMITS ARE REQUIRED FOR ANY SCAFFOLDING, UTILITY TRENCHING, LUMBER DROPS, CRANES, DUMPSTERS, ETC. ON PUBLIC PROPERTY. THE PUBLIC WORKS PERMIT MUST BE ON THE JOB SITE AND AVAILABLE FOR REVIEW BY CITY OFFICIALS AT ALL TIMES. IF ANY WORK HAS BEGUN BEFORE OBTAINING A PERMIT, THE JOB WILL BE STOPPED UNTIL THE PERMIT IS OBTAINED.
- ALL CONTRACTORS WORKING ON PUBLIC WORKS PROJECTS MUST HAVE A CURRENT CITY OF HERMOSA BEACH BUSINESS LICENSE.
- THE CONTRACTOR SHALL CALL IN A LOCATION REQUEST TO UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600 TWO WORKING DAYS BEFORE PERFORMING ANY DIGGING. SECTION 4216/4217 OF THE GOVERNMENT CODE REQUIRES THAT A DIGALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID.
- ALL EXCAVATIONS SHALL BE BACKFILLED AT THE END OF EACH WORKING DAY AND ROADS OPENED TO VEHICULAR TRAFFIC UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
- CONTACT PUBLIC WORKS FOR INSPECTION AT LEAST 24 HOURS IN ADVANCE. INSPECTIONS ARE AVAILABLE MONDAY THROUGH THURSDAY, 8:30 A.M. TO 12:00 A.M. AND 1:00 P.M. TO 4:30 P.M.; OFFICE COUNTER ASSISTANCE IS AVAILABLE FROM 7:00 A.M. TO 8:30 A.M. AND 4:30 P.M. TO 6:00 P.M.
- ALL FORMS AND COMPACTS SHALL BE INSPECTED PRIOR TO ANY CONCRETE POUR OR ASPHALT BEING PLACED.
- ALL SURVEY POINTS SHALL BE PROTECTED OR RE-ESTABLISHED IF THEY ARE REMOVED OR DESTROYED DURING CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL, DUST CONTROL, AND TEMPORARY DRAINAGE CONTROL AT ALL TIMES.
- ALL CONSTRUCTION TO BE IN CONFORMANCE WITH THE REGULATIONS OF CAL-OSHA.

GENERAL NOTES FOR STREET AND STORM DRAIN IMPROVEMENTS:

- ALL STREET CLOSURES REQUIRE A TRAFFIC CONTROL PLAN TO BE REVIEWED AND APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION. TRAFFIC CONTROL SHALL BE PER THE WORK AREA TRAFFIC CONTROL HANDBOOK (WATCH) MANUAL. STREET CLOSURES APPROVED BY THE CITY ENGINEER WILL REQUIRE A MINIMUM OF 48 HOUR NOTICE TO BE POSTED AND DISTRIBUTED WITH PROPER DOOR-HANGERS TO ALL RESIDENCES ON SAME BLOCK. THE CONTRACTOR SHALL ALSO NOTIFY THE DISPATCH CENTER FOR HERMOSA BEACH POLICE AND FIRE DEPARTMENTS AT (310) 524-2750 OF ANY CLOSURES OR RESTRICTIONS IN ADVANCE.
- BARRELS IN FRESHLY POURED CONCRETE SHALL BE REMOVED BY WHATEVER MEANS NECESSARY UP TO AND INCLUDING REMOVAL AND REPLACEMENT.
- ANY ASPHALT OR CONCRETE PAVEMENT WITHIN THE PROPERTY LIMITS THAT IS DAMAGED PRIOR TO CONSTRUCTION SHALL BE REMOVED AND REPLACED TO MEET CURRENT CITY STANDARDS.
- ANY PUBLIC PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE REPLACED IN KIND OR BETTER TO THE SATISFACTION OF THE CITY PUBLIC WORKS INSPECTOR. THE CITY SHALL AT ITS DISCRETION, AND IN THE INTEREST OF PUBLIC SAFETY, MAKE ANY REPAIRS DEEMED NECESSARY, THE COST OF WHICH WILL BE DEDUCTED FROM THE DEPOSIT HELD BY THE CITY.
- ALL EXISTING PAVEMENT TO BE REMOVED SHALL BE SAW-CUT OR WHEEL-CUT AND REMOVED TO CLEAN STRAIGHT LINES.
- AT ALL LOCATIONS WHERE NEUTRALIZATION JOINS EXISTING, THE EXISTING PAVEMENT SHALL BE COATED WITH AN ASPHALTIC EMULSION.

GENERAL NOTES FOR SEWER AND UTILITY IMPROVEMENTS:

- SEPARATION OF SEWER AND WATER FACILITIES SHALL BE IN CONFORMANCE WITH LATEST EDITION OF THE STATE OF CALIFORNIA DEPT. OF HEALTH SERVICES.
- SEWER LATERALS SHALL BE CONNECTED TO THE SEWER MAIN WITH WYES.
- THE SEWER LINE SHALL BE TESTED PRIOR TO MAKING PERMANENT SERVICE CONNECTIONS.
- BACKFILL OF TRENCHES SHALL BE DONE IN LIFTS OF NO MORE THAN 8-INCHES WITH WATER AND APPROPRIATE COMPACTION TOOLS USED BETWEEN EACH LIFT. ONE SACK SLURRY MIX CAN BE USED IN PLACE OF NATIVE SOIL. AFTER BACKFILLING THE TRENCH, A TEMPORARY ASPHALT PATCH SHALL BE PLACED OVER THE TRENCH AND REMAIN FOR NO MORE THAN TWO WEEKS. THE FINAL PATCH SHALL BE A MINIMUM OF 5" THICK OR 1" THICKER THAN THE EXISTING PAVEMENT. THE CONTRACTOR SHALL FOLLOW THE LATEST HERMOSA BEACH STANDARD PLANS FOR AG AND P.C.C. PAVEMENT.
- THE FINAL PATCH IN ASPHALT STREETS SHALL BE DONE IN TWO LIFTS, A BASE OF 3" MINIMUM 3/4" AGGREGATE AND A TOP LIFT OF 2" OF 3/8" AGGREGATE. ALL EDGES OF THE CUT ASPHALT TO BE TACKED THOROUGHLY AND THE PATCH COMPACTED BY MECHANICAL MEANS TO A HEIGHT SLIGHTLY HIGHER THAN THE EXISTING ASPHALT AND ALL EDGES TO BE TACKLE.
- THE FINAL PATCH ON CONCRETE STREETS TO BE CLASS 3500 P.S.I (7 SACK), EXISTING CONCRETE TO BE DRILLED TWO AND ONE HALF INCHES (2 1/2") BELOW THE SURFACE TO A DEPTH OF 6" MINIMUM AND DOWELED WITH #5 REBAR ON 18" SPACING. FINISH TO MATCH EXISTING OR MEDIUM BROOM.
- ALL UTILITY BOXES ARE TO BE ADJUSTED TO THE NEW GRADE. DAMAGED BOXES SHALL BE REPLACED. KEEP ALL UTILITY BOXES OUT OF DRAINAGE FLOW LINES, CURB RETURNS, DRIVEWAY APPROACH AND WHEEL CHAIR RAMPS, UNLESS APPROVED BY THE CITY ENGINEER.

WATER QUALITY REQUIREMENTS:

- PRECAUTIONS SHALL BE TAKEN TO PREVENT ANY CONSTRUCTION MATERIAL DEBRIS OR RUNOFF FROM ENTERING ANY PUBLIC RIGHT-OF-WAY OR COUNTY STORM DRAIN. ALL SAW CUT RESIDUE MUST BE RETAINED WITH BERMS OR SANDBAGS AND VACUUMED TO PREVENT IT FROM ENTERING INTO ANY STORM DRAIN SYSTEM.
- SANDBAGS ARE REQUIRED FOR EROSION CONTROL DURING THE RAINY SEASON, OCTOBER 15TH THROUGH APRIL 15TH, AND MAY BE REQUIRED AT OTHER TIMES. SANDBAGS ARE REQUIRED AT NEARBY CATCH BASINS DURING CONSTRUCTION. SANDBAGS SHALL BE MAINTAINED AND IN GOOD CONDITION AT ALL TIMES.
- MAKE SURE BROKEN PAVEMENT DOES NOT COME IN CONTACT WITH RAINFALL OR RUNOFF.
- SHOVEL OR VACUUM SAW-CUT SLURRY AND REMOVE FROM THE SITE. FOR DISPOSAL INFORMATION CONTACT THE L.A. COUNTY DEPARTMENT OF PUBLIC WORKS AT 800-552-5218.
- COVER OR BARRICADE STORM DRAIN OPENINGS DURING SAW-CUTTING.
- DURING CONSTRUCTION:
 - PROTECT CATCH BASINS AND MAINTENANCE HOLES WHEN APPLYING SEAL COAT, SLURRY SEAL, FOG SEAL, ETC.
 - USE CHECK DAMS, DITCHES OR BERMS TO DIVERT RUNOFF AROUND EXCAVATIONS.
 - COLLECT AND RECYCLE EXCESS ABRASIVE GRAVEL OR SAND.
 - AVOID OVER-APPLICATION BY WATER TRUCKS FOR DUST CONTROL.
 - NEVER HOSE DOWN "DIRTY" PAVEMENT OR SURFACES. CLEAN UP ALL SPILLS AND LEAKS USING "DRY" METHODS (WITH ABSORBENT MATERIALS AND /OR RAGES), OR DIG UP AND REMOVE CONTAMINATED SOIL. FOR DISPOSAL INFORMATION CALL (800) 552-5218.
 - CATCH DRIPS FROM PAVEMENT WITH DRIP PANS OR ABSORBENT MATERIAL (CLOTH, RAGS, ETC.) PLACED UNDER MACHINE WHEN NOT IN USE.

JOB SAFETY REQUIREMENTS:

- PROPER BARRICADES SHALL BE PLACED AROUND ANY CONSTRUCTION SITE WITHIN THE PUBLIC RIGHT-OF-WAY. THESE BARRICADES SHALL COMPLY WITH THE REQUIREMENTS OF THE WORK AREA TRAFFIC CONTROL HANDBOOK (WATCH) MANUAL.
- ALL CONSTRUCTION FENCING SHALL BE BEHIND THE SIDEWALK AND ALL CONSTRUCTION MATERIAL WITHOUT PERMITS ARE TO BE BEHIND THE FENCE. SIDEWALKS ARE TO BE ACCESSIBLE TO PEDESTRIANS AT ALL TIMES.
- NO CONSTRUCTION EQUIPMENT, CONSTRUCTION MATERIAL, PORTABLE TOILETS, DUMPSTERS, ETC. SHALL BE LEFT ON THE PUBLIC RIGHT-OF-WAY WITHOUT PROPER PERMITS. THESE OBSTRUCTIONS MUST HAVE PROPER BARRICADES WITH FLASHING YELLOW LIGHTS AFTER DARK.
- ANY PUBLIC SIDEWALK DAMAGED TO THE POINT OF CAUSING A TRIP HAZARD MUST BE REPAIRED IMMEDIATELY. THE PANEL OF CONCRETE SHALL BE REMOVED AND PATCHED WITH A TEMPORARY ASPHALT PATCH AND MUST BE KEPT IN GOOD REPAIR UNTIL THE PERMANENT SIDEWALK IS CONSTRUCTED.
- ALL VEHICLES THAT INTRUDE INTO A NORMAL TRAFFIC LANE MUST HAVE PROPER SIGNAGE AND BARRICADES AS REQUIRED BY THE (WATCH) MANUAL.
- ALL WORK VEHICLES ARE SUBJECT TO ALL APPLICABLE PARKING RESTRICTIONS.
- FLAGMEN ARE REQUIRED FOR ANY VEHICLES THAT BLOCK THE TRAVEL LANE AND REQUIRE TRAFFIC TO USE THE OPPOSING LANE TO PASS.

SPECIAL NOTES:

- THE CONTRACTOR WILL MAINTAIN CONSTRUCTION SITES IN SUCH A CONDITION THAT AN ANTICIPATED STORM WILL NOT CARRY WASTES OR POLLUTANTS OFF THE SITE. THE CONTRACTOR WILL ALLOW DISCHARGES OF MATERIAL OTHER THAN STORMWATER ONLY WHEN NECESSARY FOR PERFORMANCE AND COMPLETION OF CONSTRUCTION PRACTICES AND WHERE THEY DO NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF ANY WATER QUALITY STANDARD, CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION OR NUISANCE, OR CONTAIN A HAZARDOUS SUBSTANCE IN A QUANTITY REPORTABLE UNDER FEDERAL REGULATIONS 40 CFR PARTS 117 AND 302. POTENTIAL POLLUTANTS INCLUDE BUT ARE NOT LIMITED TO: SOLID OR LIQUID CHEMICAL SPILLS; WASTES FROM PAINTS, STAINS, SEALANTS, GLUES, LIMES, PESTICIDES, HERBICIDES, WOOD PRESERVATIVES AND SOLVENTS; ASBESTOS FIBERS, PAINT FLAKES OR STUCCO FRAGMENTS; FUELS, OILS, LUBRICANTS, AND HYDRAULIC FLUIDS; FERTILIZERS, VEHICLE/EQUIPMENT WASH WATER AND CONCRETE WASH WATER; CONCRETE, DETERGENT OR FLOATABLE WASTES; WASTES FROM ANY ENGINE/EQUIPMENT STEAM CLEANING OR CHEMICAL DEGREASING; AND SUPERCHLORINATED POTABLE WATER LINE FLUSHINGS. DURING CONSTRUCTION THE CONTRACTOR WILL DISPOSE OF SUCH MATERIALS IN A SPECIFIED AND CONTROLLED TEMPORARY AREA ON-SITE, PHYSICALLY SEPARATED FROM POTENTIAL STORM WATER RUN-OFF, WITH ULTIMATE DISPOSAL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
- DEWATERING OF CONTAMINATED GROUNDWATER, OR DISCHARGING CONTAMINATED SOILS VIA SURFACE EROSION IS PROHIBITED. DEWATERING OF NON-CONTAMINATED GROUNDWATER REQUIRES A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT FROM THE RESPECTIVE STATE REGIONAL WATER QUALITY CONTROL BOARD.
- HIGH WINDS: THE CONTRACTOR WILL STOP GRADING AND EXCAVATION DURING PERIODS OF HIGH WINDS. ACCORDING TO ADO MEASURE F-4, HIGH WINDS ARE DEFINED AS 30 MPH OR GREATER. THIS LEVEL OCCURS ONLY UNDER UNUSUALLY EXTREME CONDITIONS, SUCH AS SANTA ANA WIND CONDITIONS.

UNAUTHORIZED CHANGES & USES:

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS AND THE CITY OF HERMOSA BEACH.

NOTICE TO CONTRACTOR:

- CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
- THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH FROM AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT THOSE SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN, AND ANY OTHER LINES OR STRUCTURES NOT SHOWN ON THESE PLANS AND IS RESPONSIBLE FOR THE PROTECTION OF OR ANY DAMAGE TO THESE LINES OR STRUCTURES.
- CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO COMMENCEMENT OF WORK.
- THE ESTIMATED QUANTITIES SHOWN ON THESE PLANS ARE ONLY FOR THE PURPOSE OF OBTAINING THE NECESSARY PERMITS, AND ADAMS-STREETER CIVIL ENGINEERS DOES NOT GUARANTEE THE ACCURACY OF THE ESTIMATED QUANTITIES. THE CONTRACTOR SHALL PERFORM HIS OWN QUANTITY TAKEOFF BEFORE SUBMITTING A BID FOR ANY PORTION OF THE IMPROVEMENTS COVERED BY THESE PLANS. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO COMMENCEMENT OF WORK.

LEGEND:

	PROPERTY LINE
	GRADED SWALE
	PROPOSED AREA DRAIN PIPE
	PROPOSED AREA DRAIN INLET
	EXISTING UNDERGROUND ELECTRICAL OR COMMUNICATIONS CONDUIT
	EXISTING SANITARY SEWER LINE
	EXISTING SANITARY SEWER MANHOLE
	EXISTING WATER LINE
	EXISTING TREE
	EXISTING LIGHT STANDARD
	EXISTING PARKING METER
	EXISTING SIGN
	EXISTING FIRE HYDRANT
	EXISTING WATER METER
	EXISTING ELECTRICAL PULL BOX OR VAULT
	EXISTING SLOPE
	EXISTING CONTOUR
	PROPOSED ELEVATIONS
	EXISTING ELEVATIONS
	PROPOSED GRADIENT
	EXISTING GRADIENT

ABBREVIATIONS:

BFP	BACKFLOW PREVENTER
BW	BACK OF SIDEWALK
CF	CURB FACE
CL	CENTER LINE
DF	DEEPENED FOOTING
EXIST	EXISTING
FG	FINISH GRADE ELEVATION
FL	FLOW LINE ELEVATION
FW	EXTERIOR FACE OF WALL - STATION REFERENCE
HP	FINISH SURFACE ELEVATION
INV	INVERT ELEVATION
NEV	NEIGHBORHOOD ELECTRIC VEHICLE
PL	PROPERTY LINE
PROP	PROPOSED
R	RISE
TC	TOP OF CURB
TF	TOP OF FOOTING
TG	TOP OF GRATING
TRW	TOP OF RETAINING WALL
TW	TOP OF SCREEN WALL
X	FULL HEIGHT CURB AT DRIVEWAY WING

SHEET INDEX

SHEET	DRAWING	DESCRIPTION
1	C-1	TITLE SHEET
2	C-2	DEMOLITION PLAN
3	C-3	DRAINAGE PLAN
4	C-4	WALL PLAN
5	C-5	GRADING & PAVING PLAN
6	C-6	SIGNAGE & STRIPING PLAN
7 & 8	C-7 & C-8	SITE DETAILS
9 THRU 11	C-9 THRU C-11	STRUCTURAL DETAILS
12	C-12	DRAINAGE DETAILS
13	C-13	GUARDRAIL AND HANDRAIL DETAILS
14	C-14	EROSION CONTROL PLAN
15	C-15	HORIZONTAL CONTROL PLAN
LANDSCAPE PLANS		
16	L1	CONSTRUCTION PLAN & NOTES
17	L2	CONSTRUCTION DETAILS
18	L3	IRRIGATION PLAN & NOTES
19	L4	IRRIGATION LEGEND & NOTES
20 THRU 22	L5 THRU L7	IRRIGATION DETAILS
23	L8	PLANTING PLAN & PLANT LIST
24	L9	PLANTING DETAILS, CONSTRUCTION DETAILS, AND NOTES
ELECTRICAL PLANS		
25	E-0	GENERAL NOTES, LEGEND & SHEET INDEX
26	E-1	SINGLE LINE DIAGRAM & SCHEDULES
27	E-2	SITE LIGHTING PLAN
28	E-3	SITE POWER PLAN
29 AND 30	E-4 & E-5	DETAILS
31	E-6	TITLE 24 FORMS

ESTIMATE OF EARTHWORK QUANTITIES:

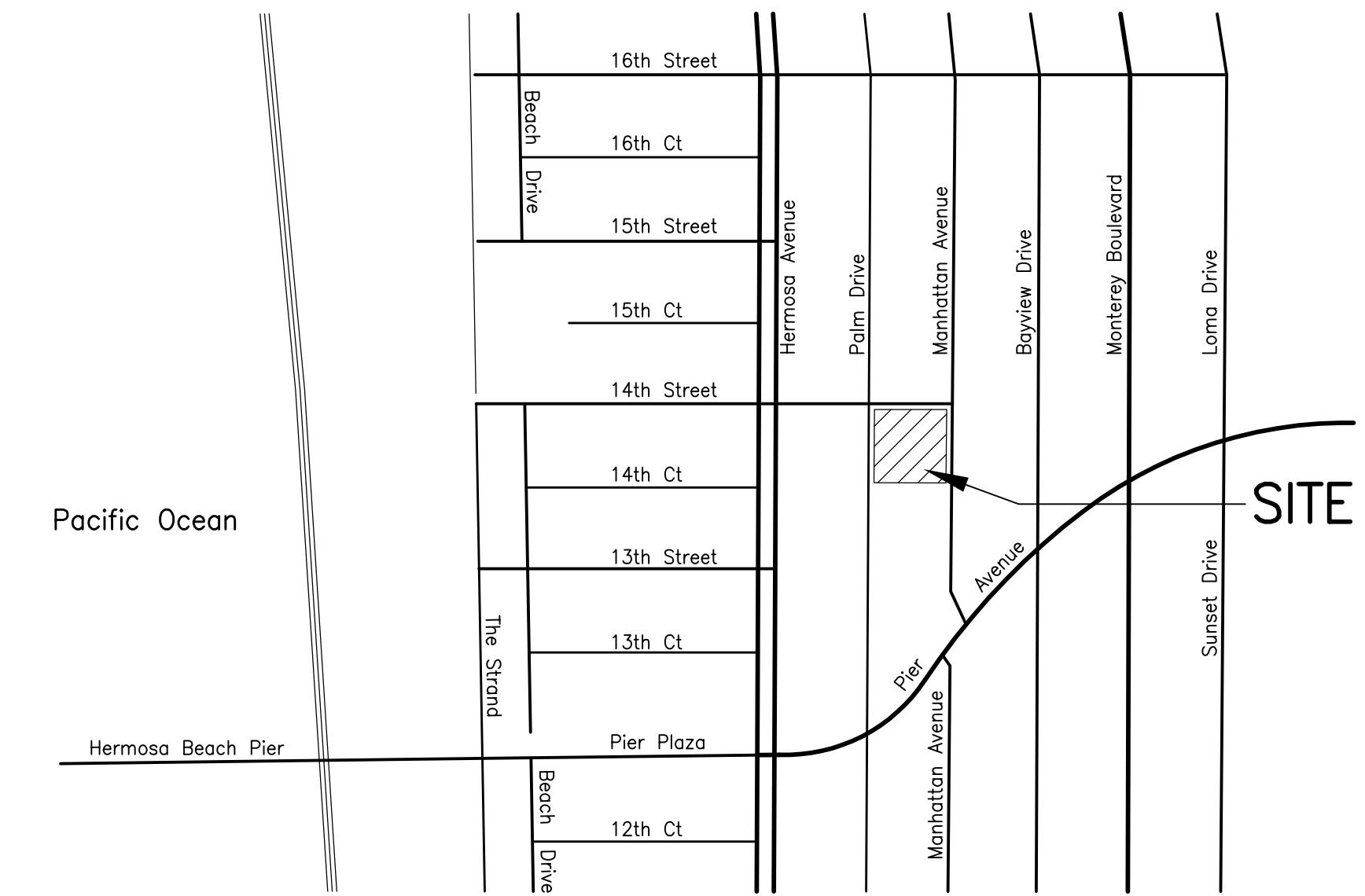
CUT	390 CY
FILL	180 CY
EXPORT	210 CY

NOTES:

- QUANTITIES INCLUDE SPOILS FOR PIPE TRENCHING, RETAINING WALL FOUNDATIONS, AND CATCH BASINS.
- QUANTITIES DO NOT INCLUDE REMOVALS AND REPLACEMENT OF ANY UNSUITABLE SOILS.

LID INFORMATION

PROPERTY OWNER INFORMATION: CITY OF HERMOSA BEACH
 SOIL INFILTRATION RATE: 53 IN/HR (UPPER PARKING) & 66 IN/HR (LOWER PARKING)
 TOTAL DRAINAGE AREA: 0.21 ACRES
 PERCENT IMPERVIOUS (EXISTING CONDITION): 0.76
 PERCENT IMPERVIOUS (PROPOSED CONDITION): 0.54
 SOIL TYPE: 3
 50-YR RAINFALL DEPTH (IN): 5.1
 85TH PERCENTILE STORM RAINFALL DEPTH (INCHES): 0.7 (<0.75)
 (0.75-INCH, 24-HOUR RAINFALL GOVERNS)
 TREATMENT FLOW RATE (CFS): 0.036
 STORM WATER QUALITY DESIGN VOLUME (CUBIC FEET): 301.6



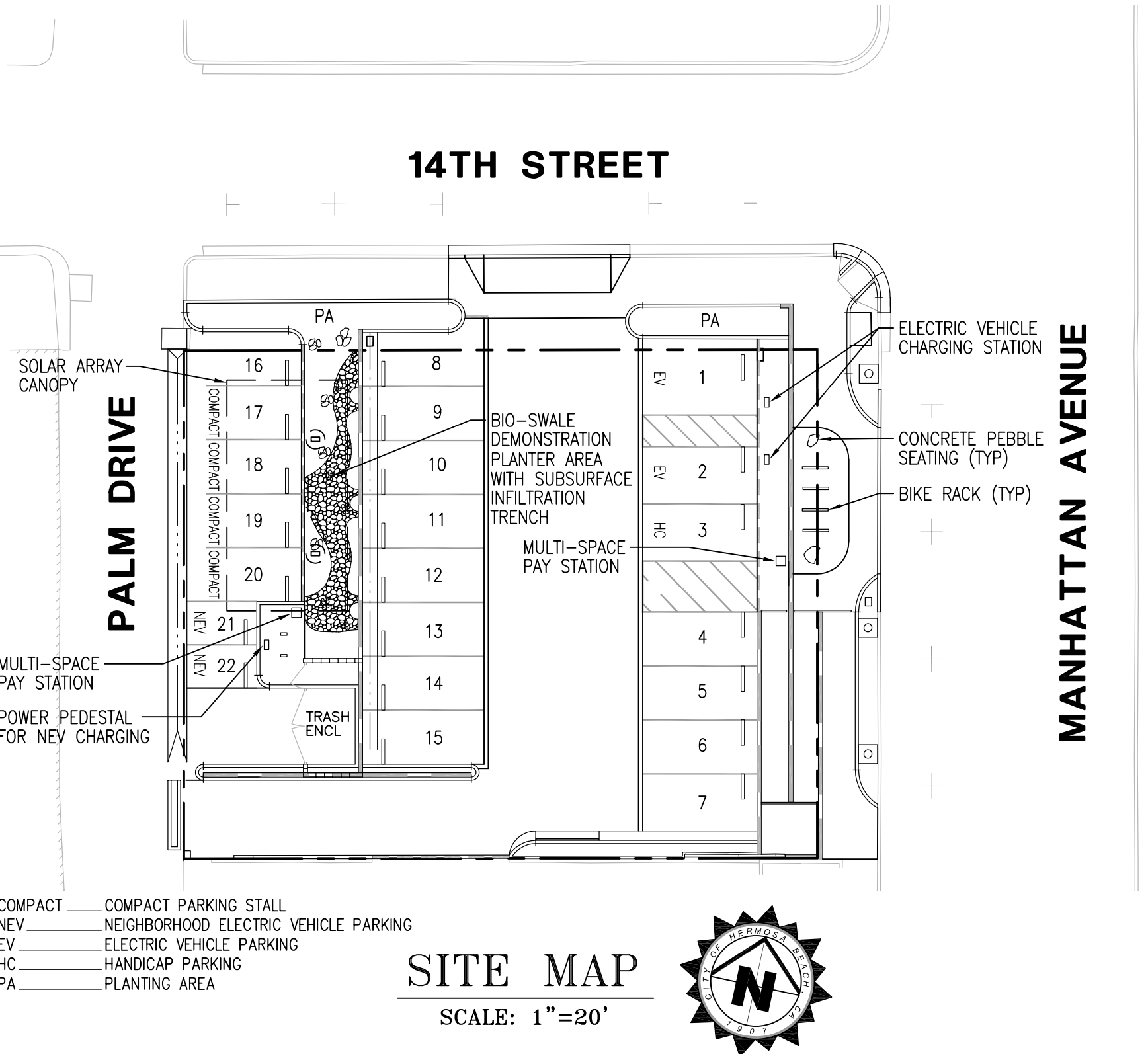
VICINITY MAP

NOT TO SCALE



SCOPE OF WORK:

- THIS PROJECT WILL REDEVELOP THE CITY'S PARKING LOT "D" LOCATED AT THE SOUTHWEST CORNER OF THE INTERSECTION OF MANHATTAN AVENUE AND 14TH STREET INTO A MULTI-BENEFIT DEMONSTRATION PROJECT. AMENITIES INTRODUCED TO PROMOTE AREA AND SERVICE ENHANCEMENT THAT ALSO ALLOWS FOR PUBLIC EDUCATIONAL AND DEMONSTRATION OPPORTUNITIES INCLUDE:
- STREETSCAPE ENHANCEMENTS: PARKWAY LANDSCAPING, ONSITE DECORATIVE WALLS, GATHERING SPACES, STREET FURNISHING, BIKE CORRAL, ETC.
 - WATER QUALITY ENHANCEMENTS: PERMEABLE PAVER SYSTEM AND BIO-SWALE DEMONSTRATION PLANTER AREA WITH SUBSURFACE INFILTRATION TRENCH FOR STORM WATER INFILTRATION.
 - FACILITY ENHANCEMENTS: ADA SITE ACCESSIBILITY, ELECTRIC VEHICLE CHARGING STATIONS (EVCS), NEIGHBORHOOD ELECTRIC VEHICLE (NEV) CHARGING STATIONS, MULTISPACE PAY STATIONS, CPTED SAFETY LIGHTING LEVELS & DISTRIBUTION, COVERED ENCLOSURE (TRASH AND GREASE), AND SOLAR PHOTOVOLTAIC ARRAY CANOPY.

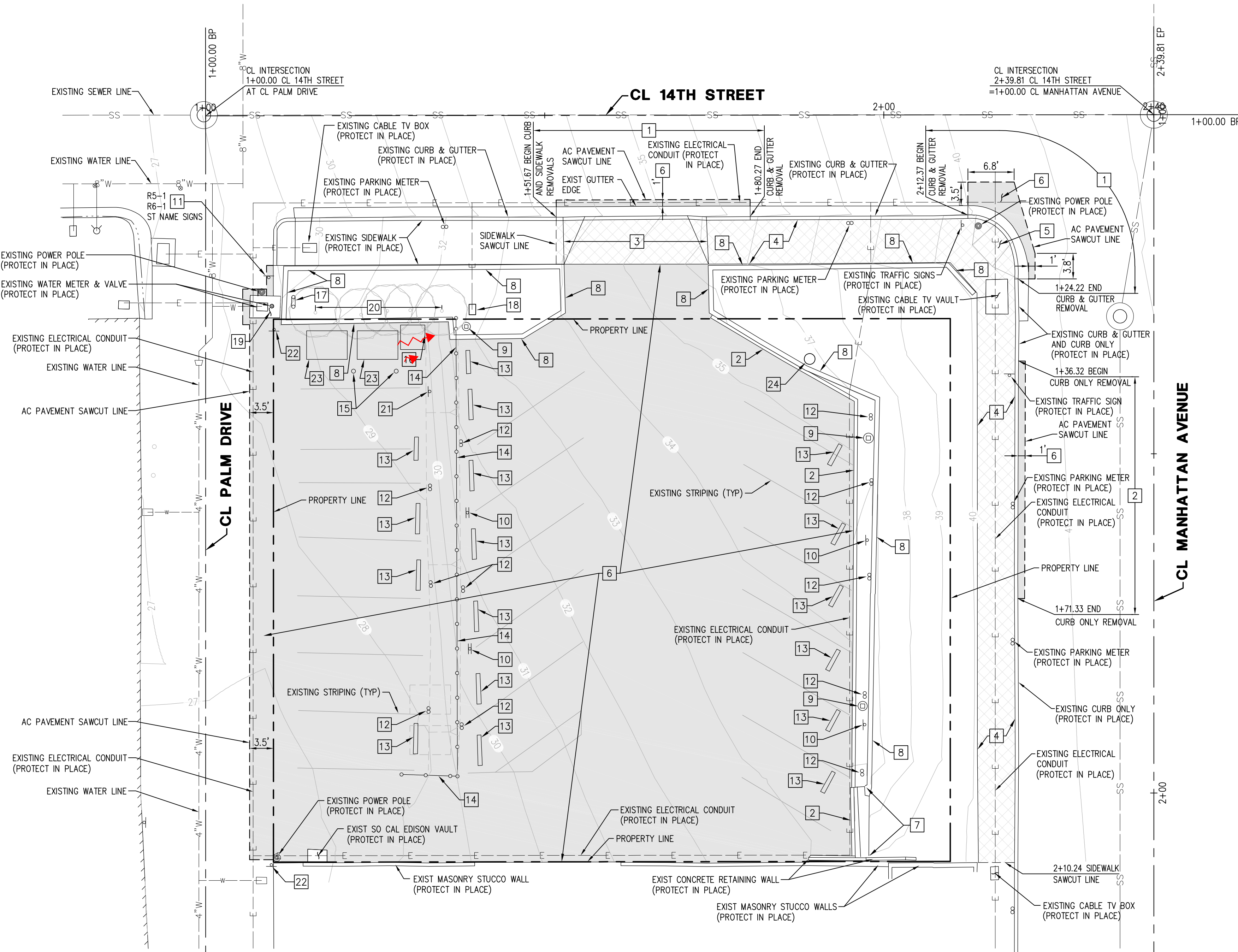


SITE MAP

SCALE: 1"=20'



BENCH MARK: No. QY11328, ELEV. 15.323 FEET DATE ADJ. 2005, QUAD. HAWTHORNE/TORRANCE	<p>Underground Service Alert DigAlert CALL: TOLL FREE 811 TWO WORKING DAYS BEFORE YOU DIG</p> <p>IMPORTANT NOTICE SECTION 4212/4217 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A PERMIT TO EXCAVATE WILL BE VALID.</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">REVISIONS</th> </tr> <tr> <th>No.</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REVISIONS			No.	DESCRIPTION	DATE							<p>AS ADAMS STREETER Civil Engineers 16755 Von Karman, Suite 150, Irvine, CA 92606 (949) 474-2330 adams-streeter.com</p>	PLANS PREPARED BY: <p>MOHAMMAD MOHAMMADABADI, P.E. RCE 42615, EXPIRES 3/31/26 DATE 6/25/2024</p>	CITY OF HERMOSA BEACH PUBLIC WORKS DEPARTMENT RECOMMENDED FOR PERMIT ISSUANCE: <p>10/03/2024 DATE</p>	FILE NUMBER XXXXX-CIVIL <h2 style="text-align: center;">PARKING LOT "D"</h2> <h3 style="text-align: center;">1331 MANHATTAN AVENUE</h3> <h2 style="text-align: center;">TITLE SHEET</h2> <p style="text-align: right; font-size: 2em; font-weight: bold;">C-1</p> <p style="text-align: right;">SHT. 1 OF 31</p>
REVISIONS																		
No.	DESCRIPTION	DATE																

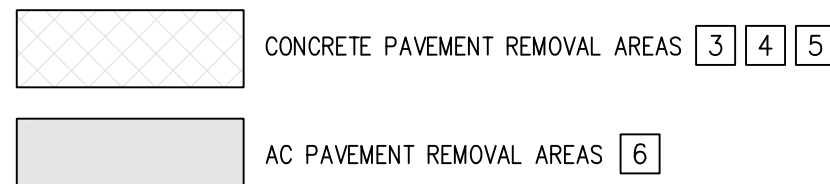


DEMOLITION NOTES AND QUANTITIES:		
NO.	DESCRIPTION	QUANTITY
1	REMOVE AND DISPOSE OF EXISTING CONCRETE CURB & GUTTER.	43 LF
2	REMOVE AND DISPOSE OF EXISTING CONCRETE CURB ONLY.	127 LF
3	REMOVE AND DISPOSE OF EXISTING CONCRETE DRIVEWAY APPROACH.	139 SF
4	REMOVE AND DISPOSE OF EXISTING CONCRETE SIDEWALK.	740 SF
5	REMOVE AND DISPOSE OF EXISTING CONCRETE CURB RAMP.	31 SF
6	SAWCUT, REMOVE AND DISPOSE OF EXISTING AC PAVEMENT.	7,000 SF
7	REMOVE AND DISPOSE OF EXISTING COMBINATION TIMBER AND CONCRETE RETAINING WALL.	1 LS
8	REMOVE AND DISPOSE OF EXISTING TIMBER PLANTER/RETAINING WALL.	1 LS
9	REMOVE AND DISPOSE OF EXISTING LIGHT STANDARD.	3 EA
10	REMOVE & SALVAGE EXISTING RESTRICTED PARKING AND SMOKE FREE ZONE SIGNS. SEE SIGNAGE & STRIPING PLAN FOR NEW LOCATION.	6 EA
11	REMOVE & SALVAGE EXISTING "DO NOT ENTER", "ONE WAY", AND STREET NAME SIGNS. SEE SIGNAGE & STRIPING PLAN FOR NEW LOCATION.	5 EA
12	REMOVE AND DISPOSE OF EXISTING PARKING METER AND FOUNDATION.	11 EA
13	REMOVE AND DISPOSE OF EXISTING WHEEL STOP.	17 EA
14	REMOVE AND DISPOSE OF EXISTING CHAIN LINK FENCE, FENCE POST, AND FOUNDATION.	76 LF
15	REMOVE AND DISPOSE OF EXISTING BOLLARD.	2 EA
16	REMOVE AND SALVAGE EXISTING GREASE TRAP FOR REUSE.	1 EA
17	REMOVE AND DISPOSE OF EXISTING IRRIGATION DETECTOR CHECK.	1 EA
18	REMOVE AND DISPOSE OF EXISTING ELECTRICAL PULL BOX.	1 EA
19	REMOVE AND DISPOSE OF EXISTING CONCRETE COLLAR.	13 SF
20	REMOVE AND DISPOSE OF EXISTING TREE.	5 EA
21	REMOVE EXISTING HANDICAP AND NO PARKING SIGNS. HANDICAP SIGN TO BE SALVAGED AND RELOCATED PER SIGNAGE AND STRIPING PLAN.	2 EA
22	REMOVE & SALVAGE EXISTING R1-1 "STOP" SIGN. SEE SIGNAGE & STRIPING PLAN FOR NEW LOCATION.	2 EA
23	REMOVE AND SALVAGE EXISTING 4-YARD TRASH CONTAINER (50-1/2" X 72") FOR REUSE.	2 EA
24	REMOVE AND DISPOSE OF EXISTING CACTUS.	1 LS

DEMOLITION GENERAL NOTES:

- SEE SHEET 1 FOR LEGEND AND ABBREVIATIONS.
- SEE SHEET 1 FOR WATER QUALITY REQUIREMENTS.
- CONTRACTOR SHALL COORDINATE ALL REMOVALS WITH CONSTRUCTION MANAGER, LANDSCAPE ARCHITECT, AND CITY OF HERMOSA BEACH PUBLIC WORKS DEPARTMENT PRIOR TO COMMENCING DEMOLITION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE MADE TO ANY EXISTING FACILITIES THAT ARE TO BE PROTECTED IN PLACE DURING DEMOLITION AND CONSTRUCTION. CONTRACTOR SHALL REPAIR/REPLACE THOSE FACILITIES AT HIS OWN EXPENSE.

PAVEMENT REMOVAL LEGEND:



10' 5' 0' 10' 20'
GRAPHIC SCALE: 1"=10'

BENCH MARK:
No. QY11328, ELEV. 15.323 FEET
DATE ADJ. 2005, QUAD. HAWTHORNE/TORRANCE

Underground Service Alert
DigAlert
CALL: TOLL FREE 811
TWO WORKING DAYS BEFORE YOU DIG
IMPORTANT NOTICE
SECTION 4212/4217 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A PERMIT TO EXCAVATE WILL BE VALID.

REVISIONS		
No.	DESCRIPTION	DATE

AS
ADAMS STREETER
Civil Engineers
16755 Von Karman, Suite 150, Irvine, CA 92606 (949) 474-2330 | adams-streeter.com

PLANS PREPARED BY:

MOHAMMAD MOHAMMADABADI, P.E. RCE 42615, EXPIRES 3/31/26 DATE 6/25/2024

CITY OF HERMOSA BEACH
PUBLIC WORKS DEPARTMENT
RECOMMENDED FOR PERMIT ISSUANCE:

10/03/2024 DATE

PUBLIC IMPROVEMENT PLANS
PARKING LOT "D"
1331 MANHATTAN AVENUE
DEMOLITION PLAN

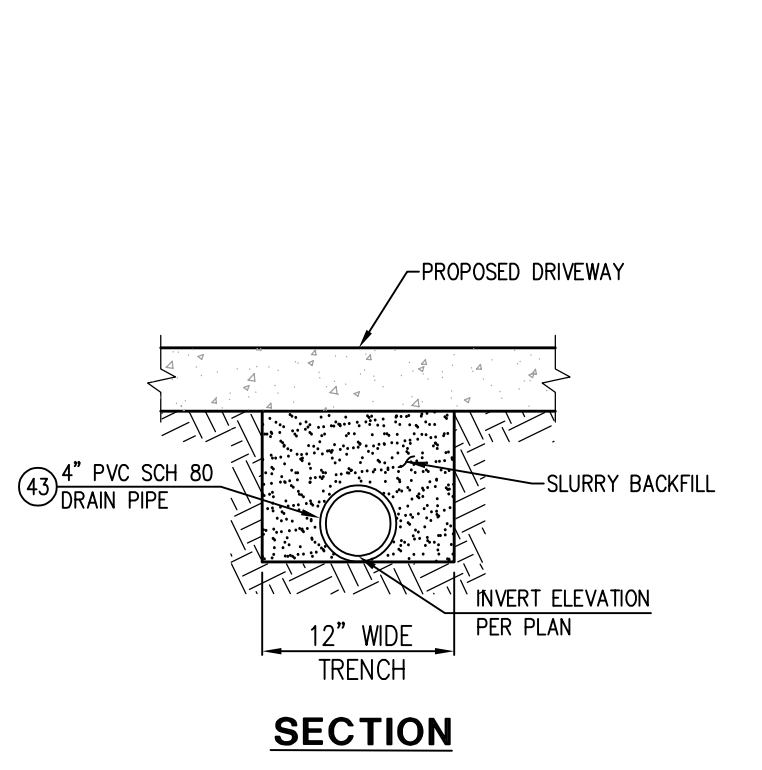
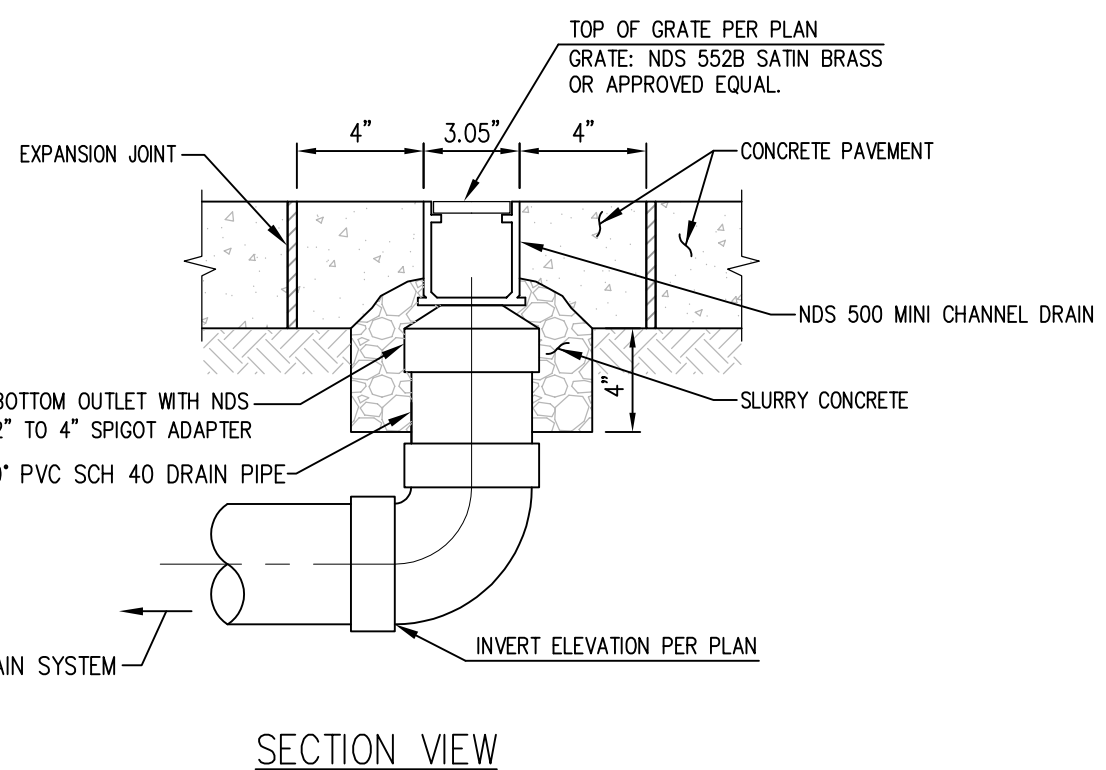
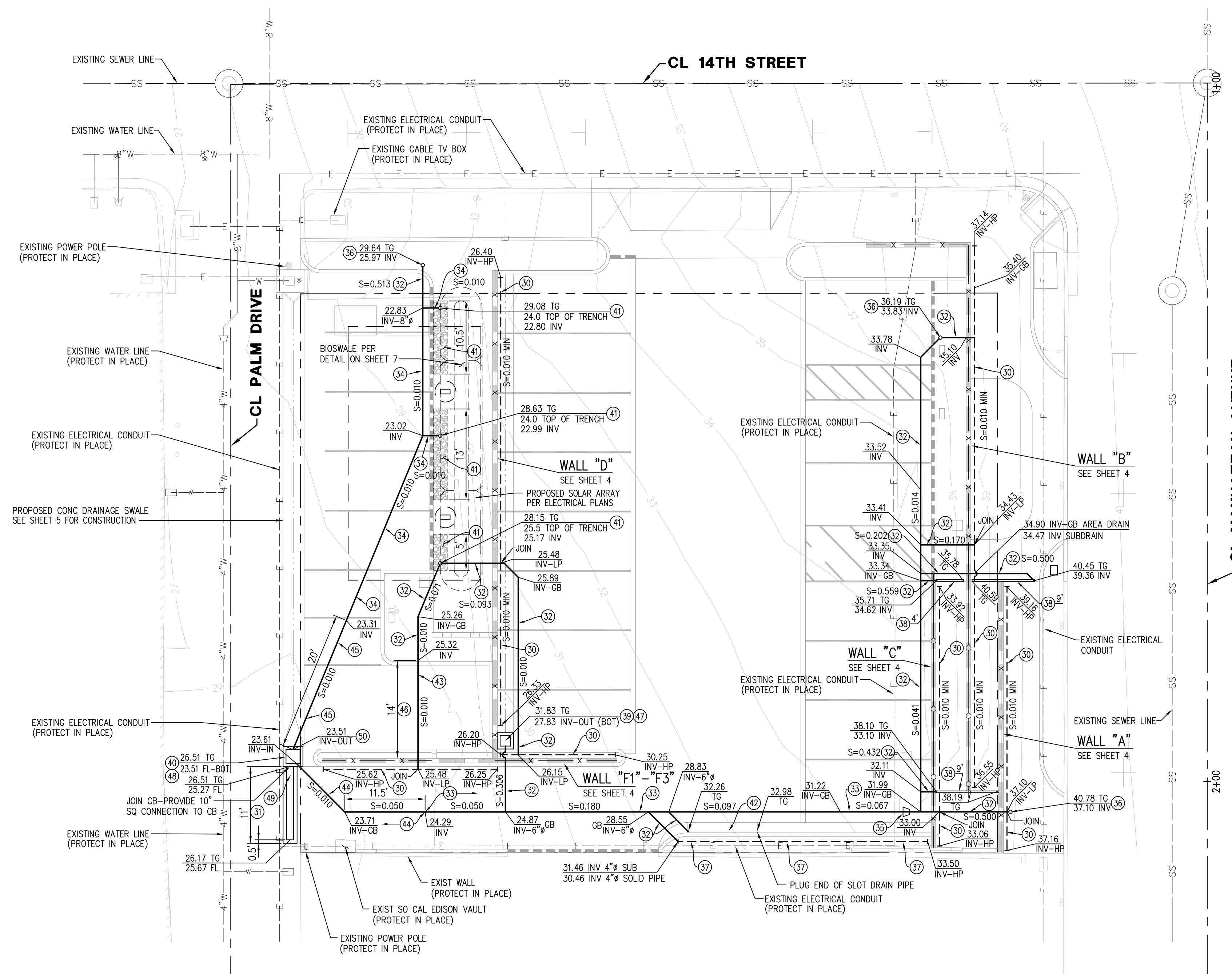
FILE NUMBER
XXXXX-CIVIL
C-2
SHT. 2 OF 31

DRAINAGE GENERAL NOTES:

1. SEE SHEET 1 FOR LEGEND AND ABBREVIATIONS.
2. SEE SHEET 1 FOR WATER QUALITY REQUIREMENTS.

DRAINAGE CONSTRUCTION NOTES AND QUANTITIES:

NO.	DESCRIPTION	QUANTITY
30	INSTALL 4" PERFORATED PVC SCH 40 SUBDRAIN PIPE FOR RETAINING WALL PER SOILS ENGINEER'S RECOMMENDATIONS.	239 LF
31	CONSTRUCT CONCRETE TRENCH DRAIN PER DETAIL ON SHEET 8.	11 LF
32	INSTALL 4" PVC SCH 40 AREA DRAIN PIPE.	195 LF
33	INSTALL 6" PVC SCH 40 AREA DRAIN PIPE.	68 LF
34	INSTALL 8" PVC SCH 40 AREA DRAIN PIPE.	48 LF
35	INSTALL 6"x4" PVC SCH 40 REDUCER.	1 EA
36	INSTALL AREA DRAIN CLEANOUT PER DETAIL ON SHEET 7.	3 EA
37	INSTALL 4" PERFORATED PVC SCH 40 SUBDRAIN PIPE PER DETAIL ON SHEET 8.	36 LF
38	INSTALL NDS 500 MINI CHANNEL DRAIN PER DETAIL ON SHEET 3.	30 LF
39	INSTALL 18" SQUARE BROOKS BOX CATCH BASIN 1818 CB WITH GALVANIZED STEEL TRAFFIC GRATE PER DETAIL ON SHEET 7.	1 EA
40	INSTALL 24" SQUARE BROOKS BOX CATCH BASIN 2424 CB WITH GALVANIZED STEEL TRAFFIC GRATE PER DETAIL ON SHEET 7.	1 EA
41	INSTALL INFILTRATION TRENCH SYSTEM PER DETAIL ON SHEET 7.	1 LS
42	INSTALL SLOT DRAIN PER DETAIL ON SHEET 7.	10 LF
43	INSTALL 4" PVC SCH 80 AREA DRAIN PIPE.	16 LF
44	INSTALL 6" PVC SCH 80 AREA DRAIN PIPE.	22 LF
45	INSTALL 8" PVC SCH 80 AREA DRAIN PIPE.	16 LF
46	CONSTRUCT SLURRY BACKFILL UNDER DRIVEWAY PER DETAIL ON SHEET 3.	14 LF
47	INSTALL FLOGARD MODEL FF-18D GRATED INLET CATCH BASIN FILTER FRAME WITH FILTER PER DETAILS ON SHEET 12.	1 EA
48	INSTALL FLOGARD MODEL FF-24D GRATED INLET CATCH BASIN FILTER FRAME WITH FILTER PER DETAILS ON SHEET 12.	1 EA
49	INSTALL FLOGARD MODEL FG-TDOF12-5 TRENCH DRAIN INSERT FILTER PER DETAILS ON SHEET 12.	1 EA
50	INSTALL FLOGARD MODEL SK-0955-12 OUTLET TRASH SCREEN PER DETAILS ON SHEET 12.	1 EA



10' 5' 0' 10' 20'
GRAPHIC SCALE: 1"=10'

BENCH MARK:
No. QY11328, ELEV. 15.323 FEET
DATE ADJ. 2005, QUAD. HAWTHORNE/TORRANCE

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No.	DESCRIPTION	DATE

AS
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Civil Engineers
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PLANS PREPARED BY:

M.M. Moh.
MOHAMMAD MOHAMMADABADI, P.E. RCE 42615, EXPIRES 3/31/26 DATE 6/25/2024

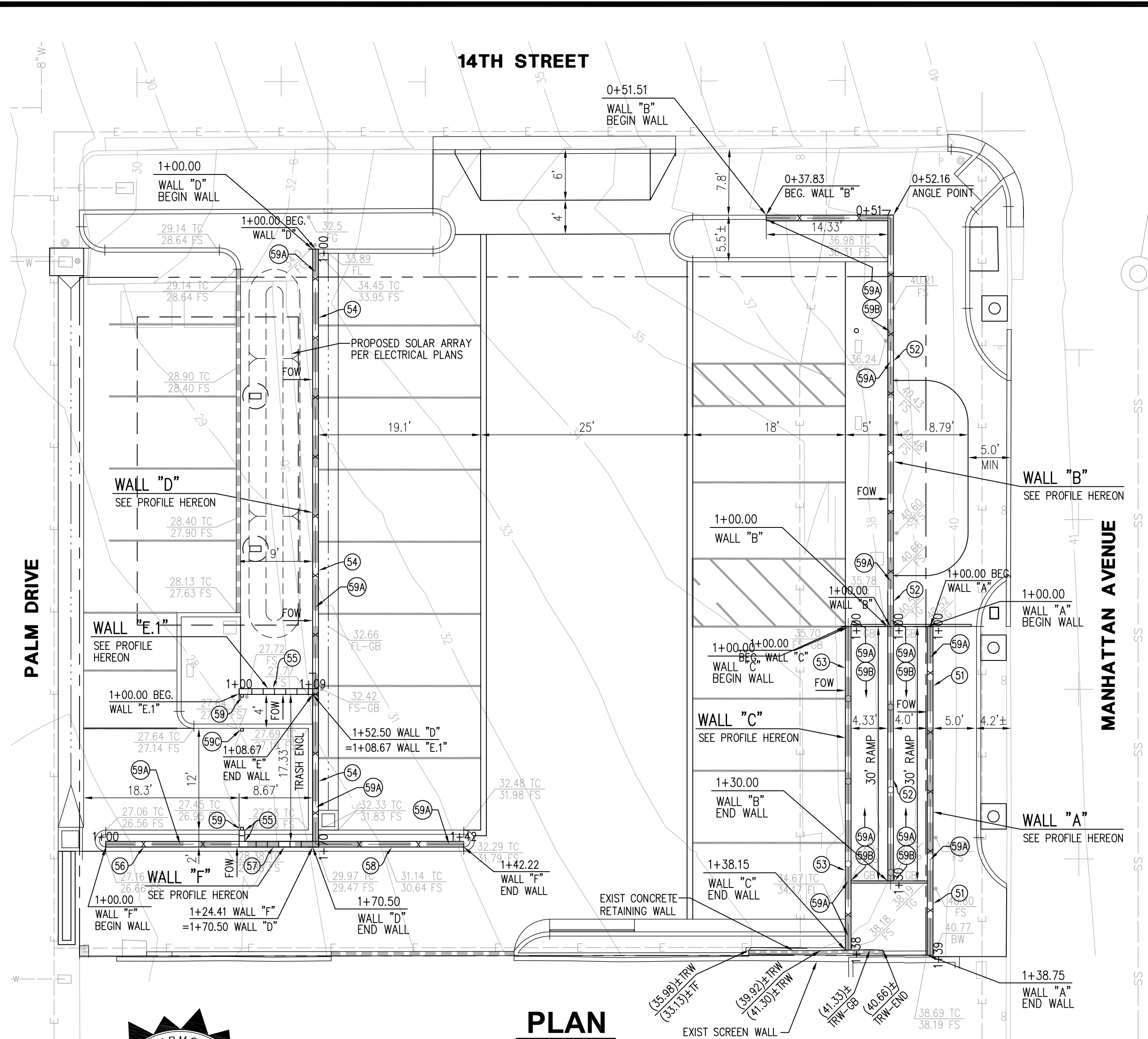
CITY OF HERMOSA BEACH
PUBLIC WORKS DEPARTMENT
RECOMMENDED FOR PERMIT ISSUANCE:
J. Okami
10/03/2024 DATE

PUBLIC IMPROVEMENT PLANS
PARKING LOT "D"
1331 MANHATTAN AVENUE
DRAINAGE PLAN

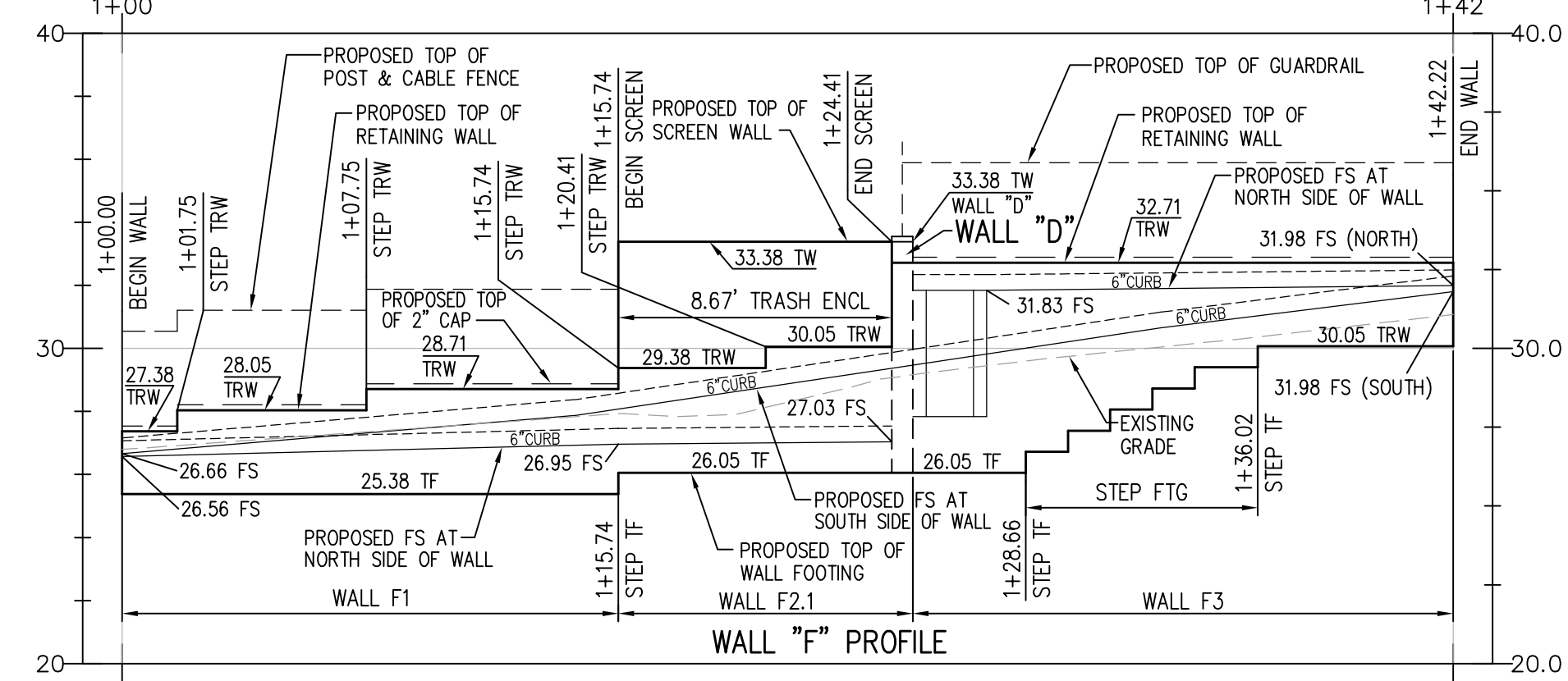
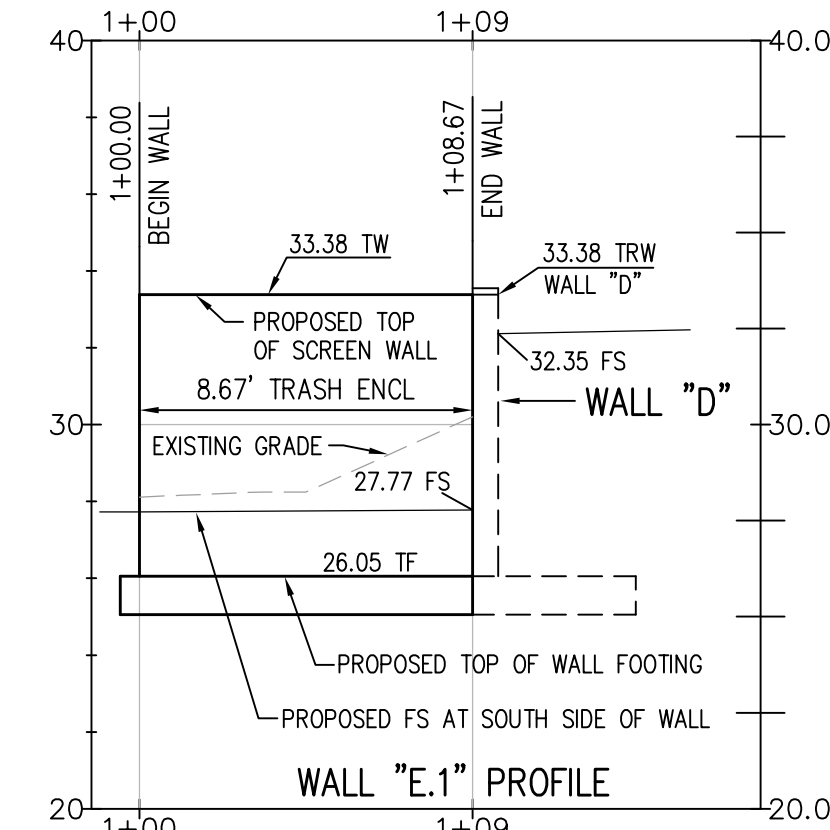
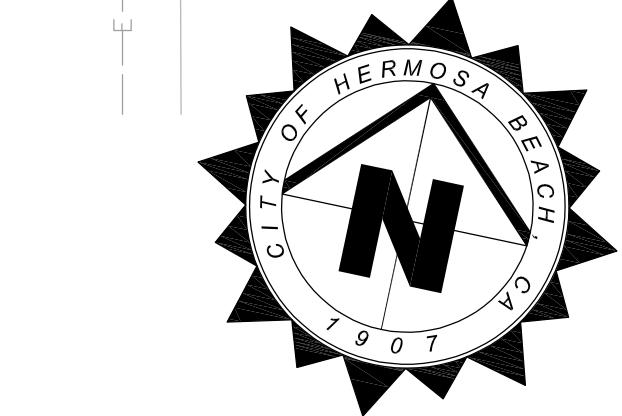
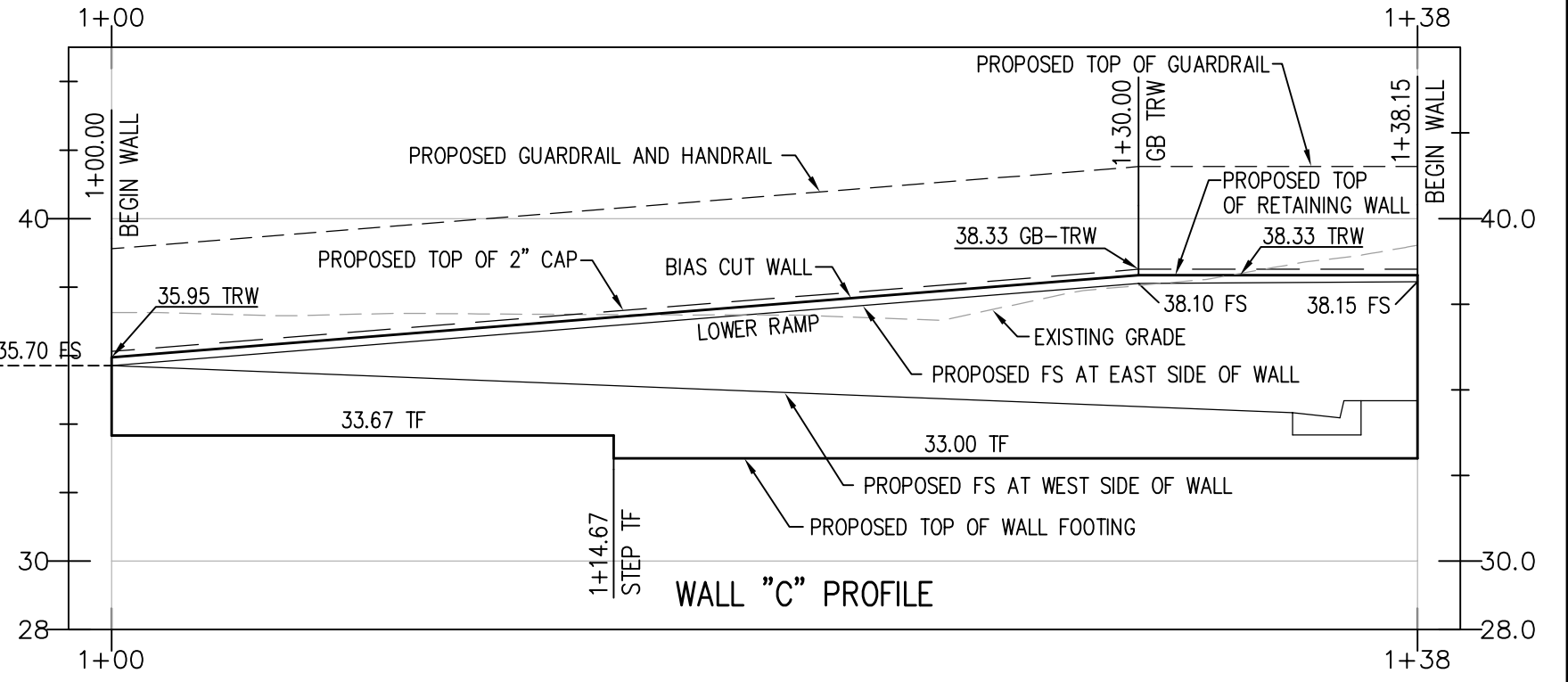
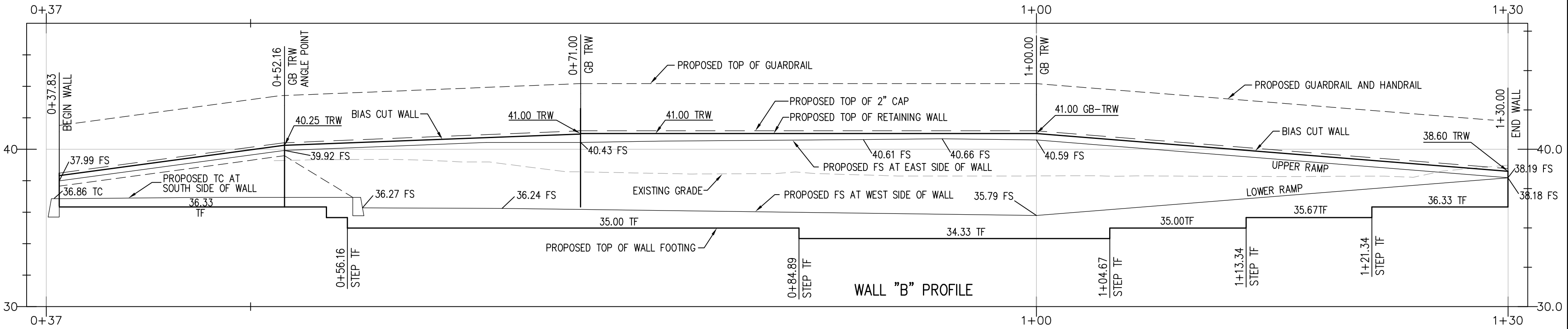
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C-3
SHT. 3 OF 31

WALL CONSTRUCTION NOTES AND QUANTITIES:

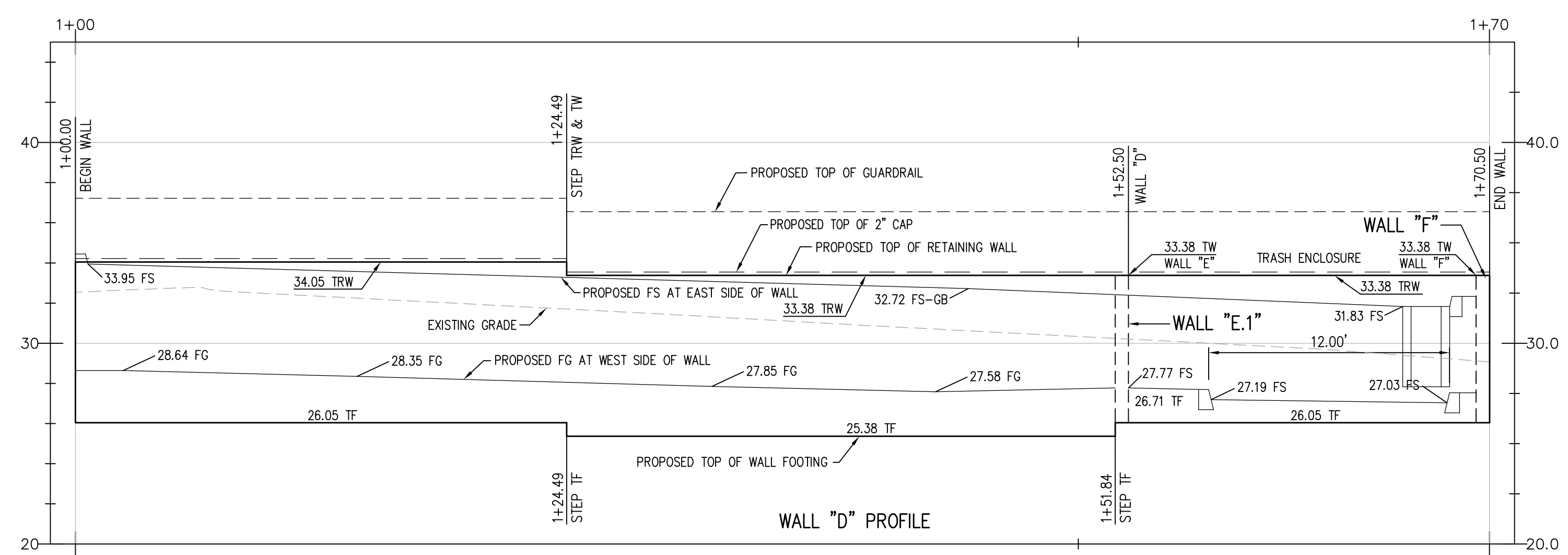
NO.	DESCRIPTION	QUANTITY
51	CONSTRUCT RETAINING WALL "A" PER DETAIL 1 ON SHEET 9.	125 SF
52	CONSTRUCT RETAINING WALL "B" PER DETAIL 2 ON SHEET 9.	418 SF
53	CONSTRUCT RETAINING WALL "C" PER DETAIL 3 ON SHEET 9.	158 SF
54	CONSTRUCT RETAINING AND SCREEN WALL "D" PER DETAIL 4 ON SHEET 10.	552 SF
55	CONSTRUCT SCREEN WALL "E.1" PER DETAIL 5 ON SHEET 10.	64 SF
56	CONSTRUCT RETAINING WALL "F1" PER DETAIL 6 ON SHEET 10.	46 SF
57	CONSTRUCT RETAINING AND SCREEN WALL "F2.1" PER DETAIL 7 ON SHEET 10.	57 SF
58	CONSTRUCT RETAINING WALL "F3" PER DETAIL 8 ON SHEET 11.	78 SF
59	INSTALL GATE POLE FOR TRASH ENCLOSURE GATE. POLE TO BE ATTACHED TO WALL PER DETAIL 9 ON SHEET 11. SEE TRASH ENCLOSURE DETAILS ON SHEET 5 FOR POLE LOCATION.	2 EA
59A	INSTALL GUARDRAIL PER DETAIL ON SHEET 13. GUARDRAIL TO BE CORE MOUNTED IN WALL.	220 LF
59B	INSTALL HANDRAIL PER DETAIL ON SHEET 13. HANDRAIL HEIGHT TO BE 36" FROM FINISH SURFACE TO TOP OF RAIL.	78 LF
59C	INSTALL GATE POLE FOR TRASH ENCLOSURE GATE. POLE TO BE FREESTANDING PER DETAIL 10 ON SHEET 11. SEE TRASH ENCLOSURE DETAILS ON SHEET 5 FOR POLE LOCATION.	1 EA



DRAINAGE NOTE:
SEE SHEET 3 FOR SURFACE AND SUBSURFACE DRAINAGE PIPE LOCATIONS.



WALL PROFILES
HORIZ SCALE: 1"=5'; VERT SCALE: 1"=5'



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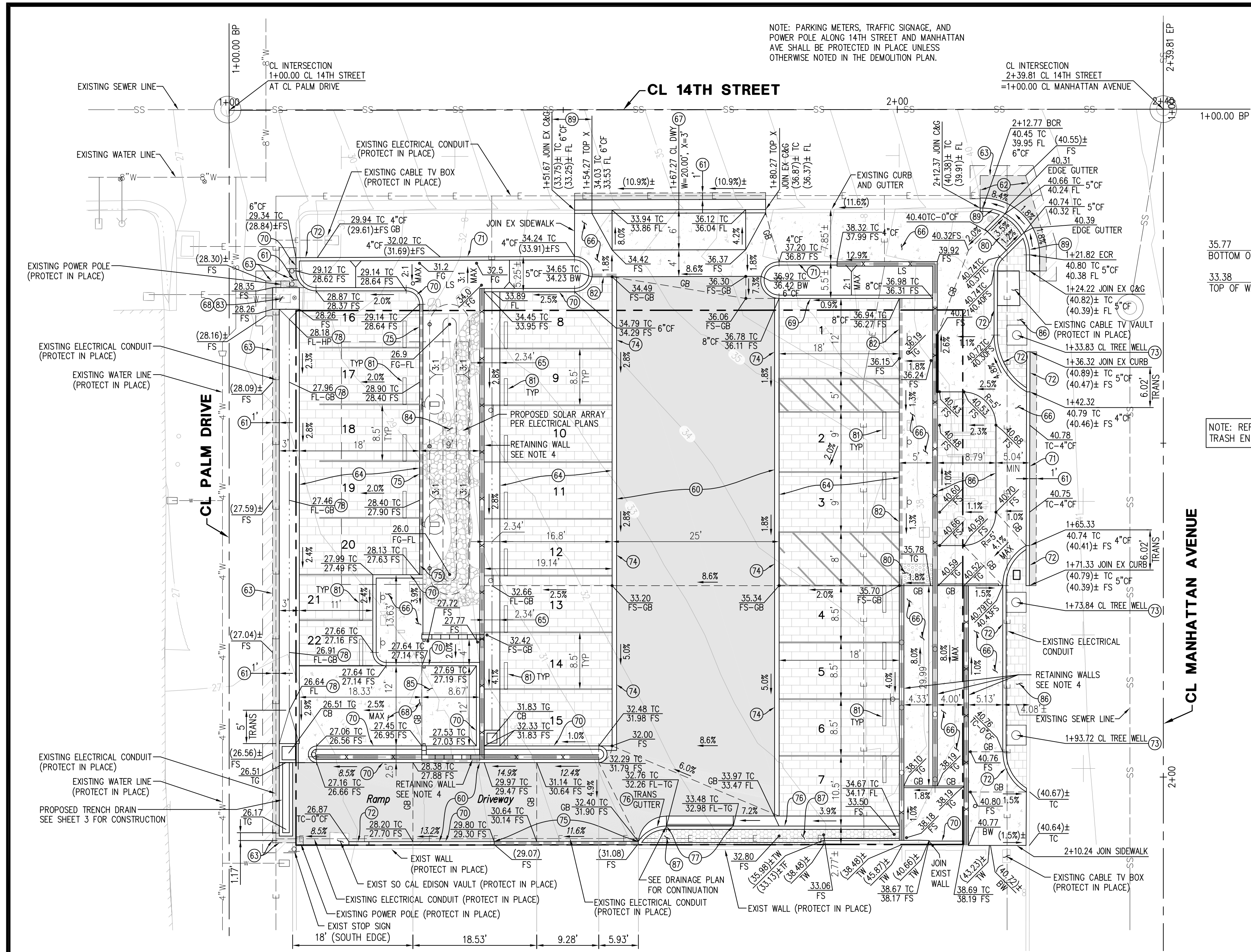
MOHAMMAD MOHAMMADABADI, P.E. RCE 42615, EXPIRES 3/31/26 DATE 6/25/2024

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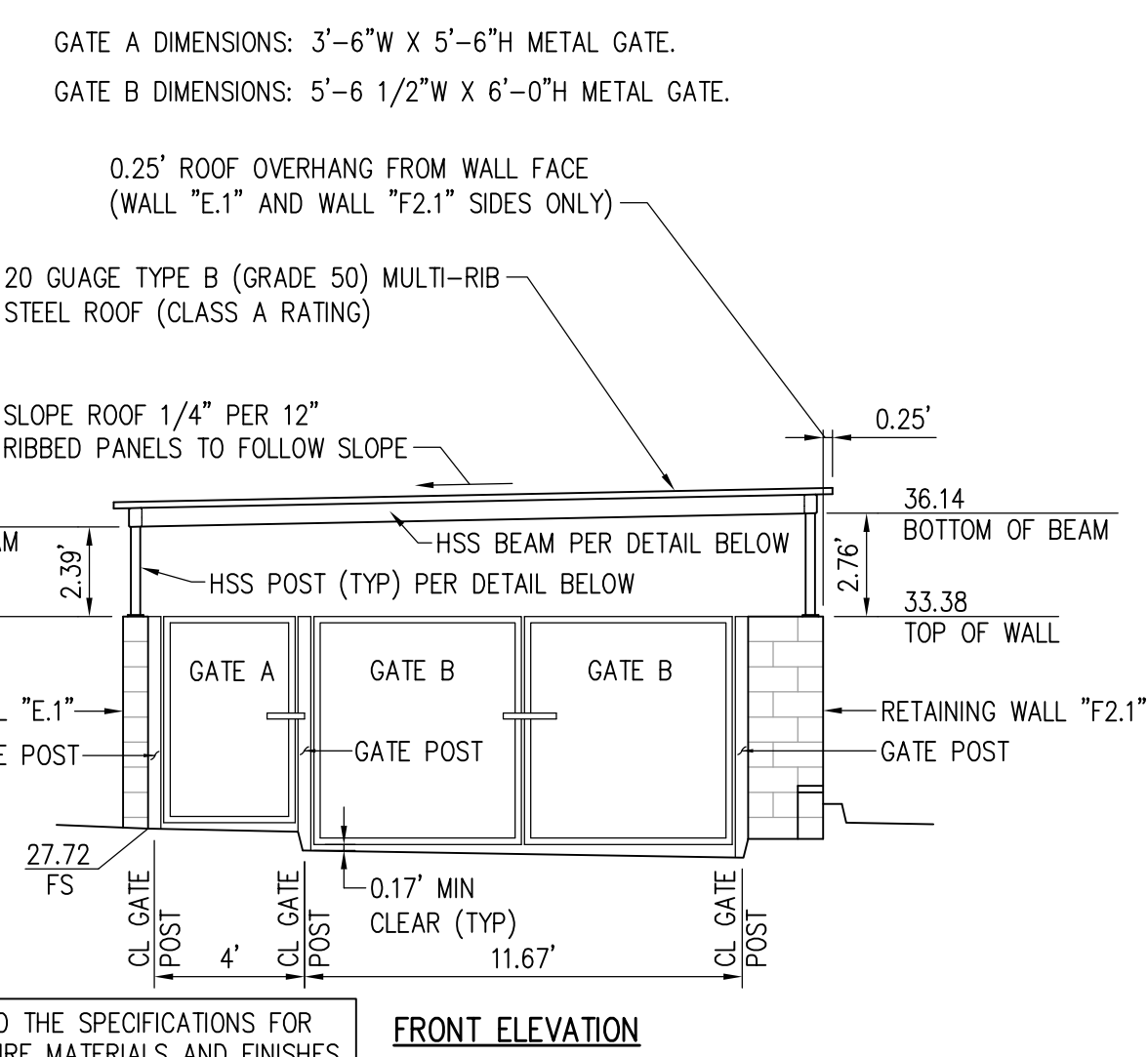
10/03/2024

PUBLIC IMPROVEMENT PLANS
PARKING LOT "D"
1331 MANHATTAN AVENUE
WALL PLAN

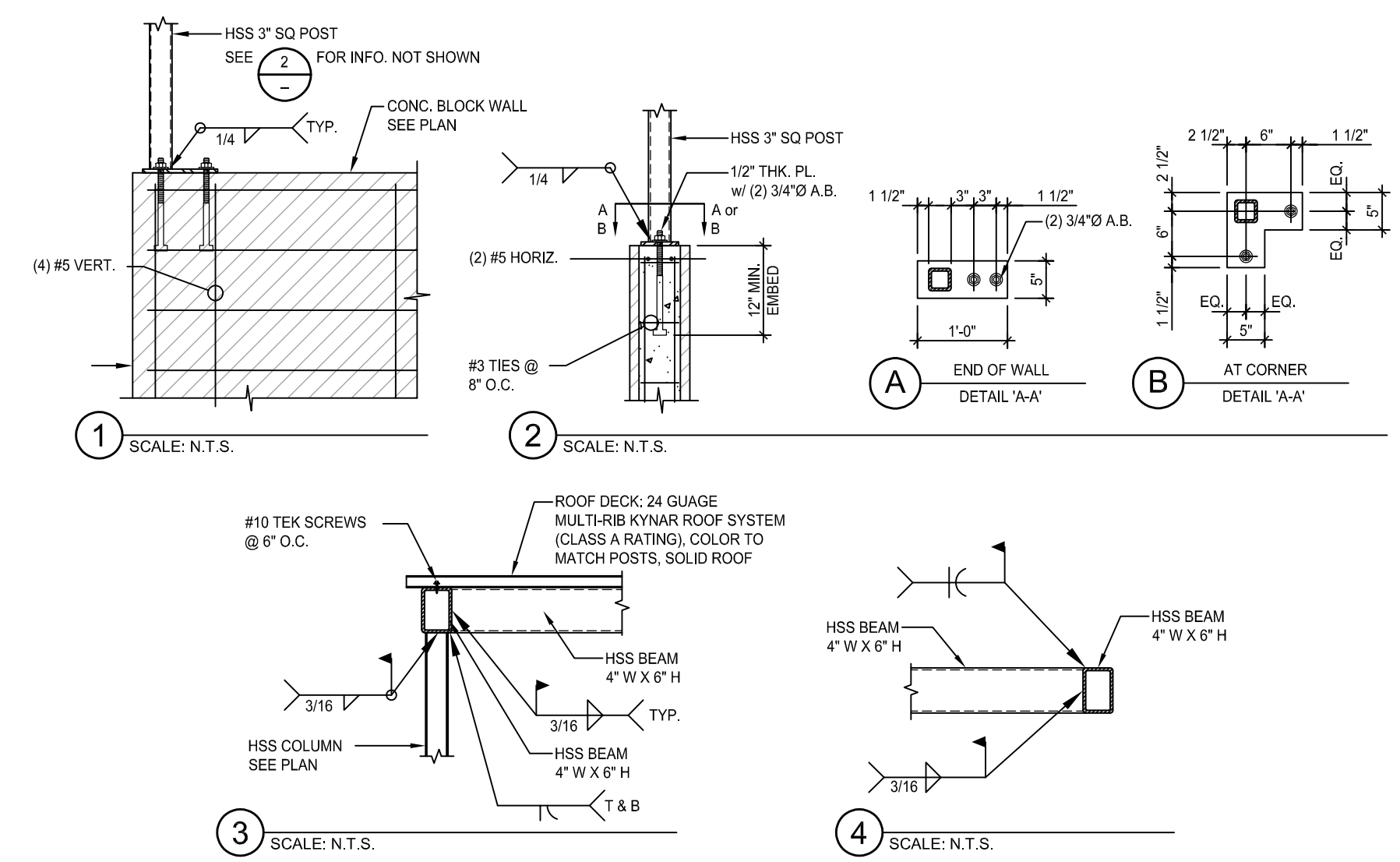
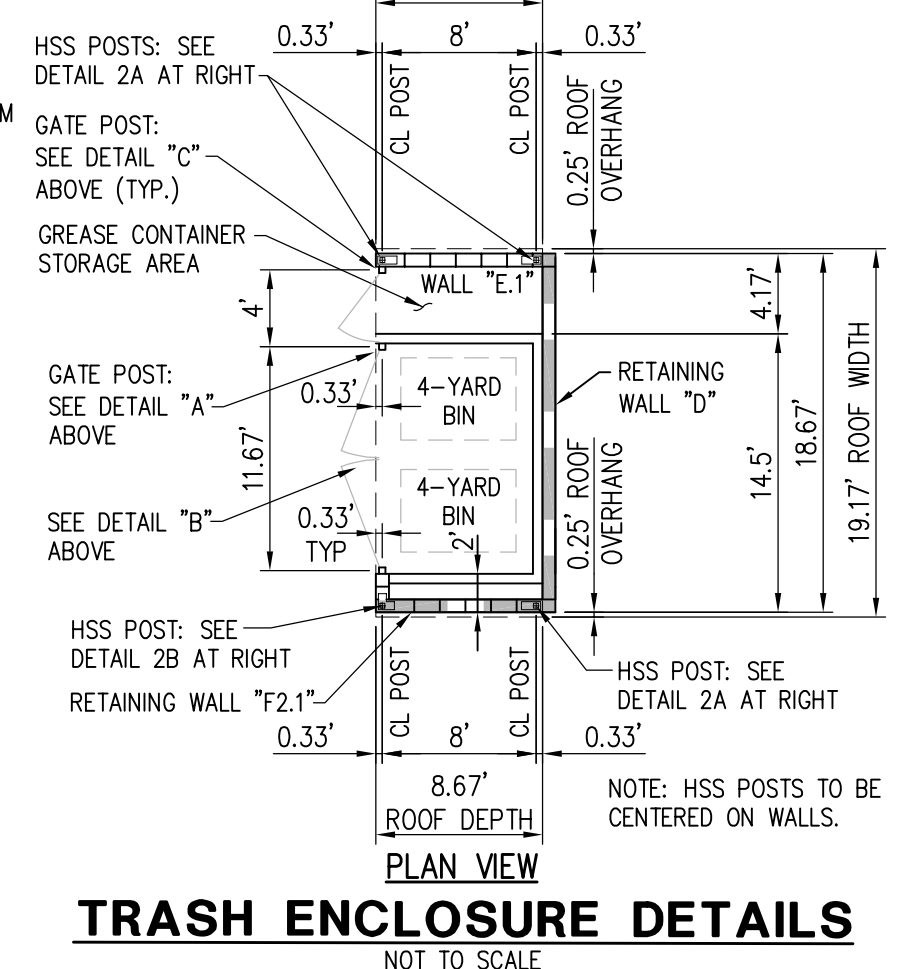
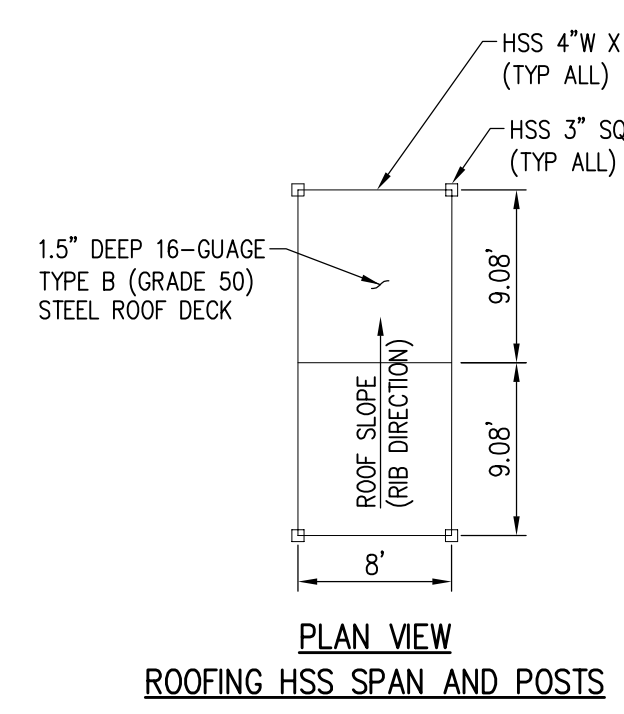
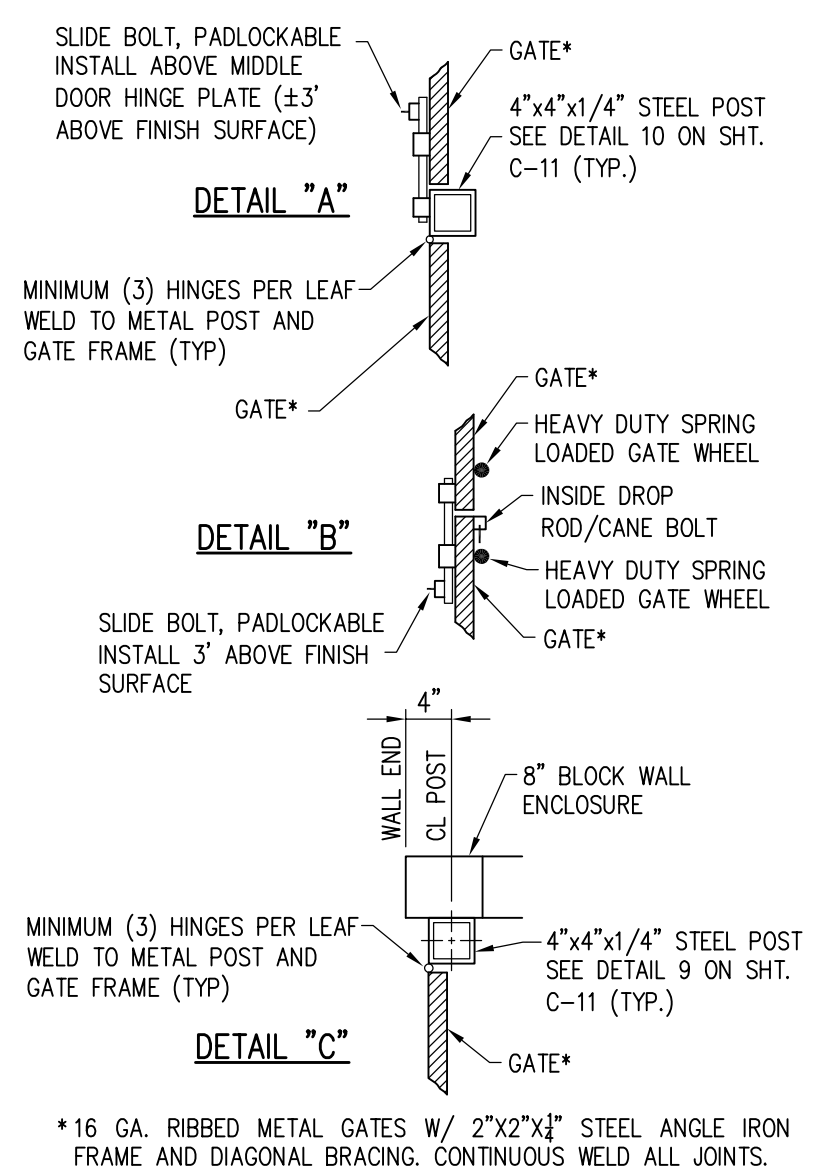
FILE NUMBER
XXXXX-CIVIL
C-4
SHT. 4 OF 31



NOTE: PARKING METERS, TRAFFIC SIGNAGE, AND POWER POLE ALONG 14TH STREET AND MANHATTAN AVE SHALL BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED IN THE DEMOLITION PLAN.



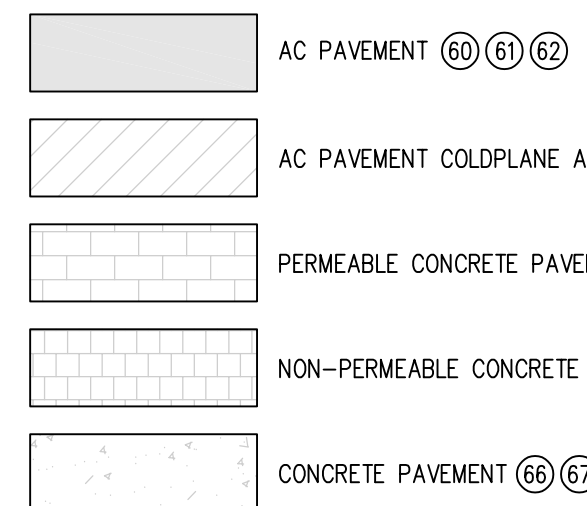
NOTE: REFER TO THE SPECIFICATIONS FOR TRASH ENCLOSURE MATERIALS AND FINISHES.



GRADING & PAVING CONSTRUCTION NOTES AND QUANTITIES:

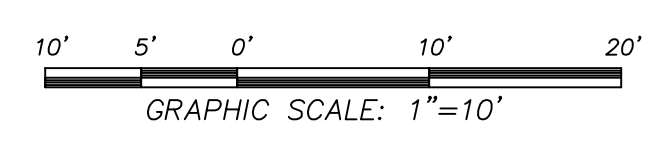
NO.	DESCRIPTION	QUANTITY
60	CONSTRUCT 3" AC OVER 4" AB PER SOILS ENGINEER'S RECOMMENDATIONS.	2,535 SF
61	CONSTRUCT FULL DEPTH AC PAVING.	143 SF
62	CONSTRUCT NEW AC PAVING, NEW PAVING TO MATCH EXISTING ADJACENT PAVEMENT SECTION.	45 SF
63	CONSTRUCT AC PAVEMENT JOIN WITH EXISTING AC PAVEMENT COLDPLANE AND OVERLAY PER DETAIL ON SHEET 7.	192 SF
64	CONSTRUCT PERMEABLE CONCRETE PAVERS IN PARKING AREAS PER DETAIL ON SHEET 7.	3,461 SF
65	CONSTRUCT CONCRETE DRAINAGE SWALE, TYPE F, PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 101. MODIFY SWALE WIDTH FROM 2'-0" TO 2'-4".	66 LF
66	CONSTRUCT 4" THICK CONCRETE SIDEWALK PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 106.	1,475 SF
67	CONSTRUCT CONCRETE RESIDENTIAL DRIVEWAY APPROACH PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 102.	220 SF
68	CONSTRUCT 6" THICK CONCRETE PAVEMENT PER SOILS ENGINEER'S RECOMMENDATIONS. CONSTRUCT WEAKENED PLANE JOINTS FOR PAVEMENT PER DETAIL ON SHEET 8.	323 SF
69	CONSTRUCT 8" CONCRETE CURB ONLY, TYPE A, PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 100.	23 LF
70	CONSTRUCT 6" CONCRETE CURB ONLY, TYPE B, PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 100.	200 LF
71	CONSTRUCT 4" CONCRETE CURB ONLY PER DETAIL ON SHEET 8.	83 LF
72	CONSTRUCT VARIABLE HEIGHT CONCRETE CURB ONLY PER DETAIL ON SHEET 8.	102 LF
73	INSTALL 36" SQUARE TREE WELL NEENAH FOUNDARY R-8704-A WITH 16" DIA OPENING AND TYPE "P" FRAME.	3 EA
74	CONSTRUCT CONCRETE BAND PER DETAIL ON SHEET 8.	150 LF
75	CONSTRUCT HEAVY DUTY CONCRETE CURB PER DETAIL ON SHEET 7.	63 LF
76	CONSTRUCT MODIFIED CONCRETE CURB AND GUTTER, TYPE A, PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 101 AND DETAIL ON SHEET 8.	30 LF
77	CONSTRUCT CONCRETE CURB AND GUTTER WITH SLOT DRAIN PER DETAIL ON SHEET 7.	10 LF
78	CONSTRUCT CONCRETE DRAINAGE SWALE, TYPE E, PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 101.	65 LF
79	CONSTRUCT EXTENDED DEPTH SIDEWALK EDGE PER DETAIL ON SHEET 8.	22 LF
80	INSTALL DETECTABLE WARNING SURFACE PER DETAIL ON SHEET 8.	2 EA
81	INSTALL PRECAST CONCRETE SURFACE STOP PER DETAIL ON SHEET 8.	22 EA
82	CONSTRUCT EXTENDED DEPTH SIDEWALK EDGE ADJACENT TO PERMEABLE PAVERS PER DETAIL ON SHEET 8.	47 LF
83	ADJUST EXISTING WATER METER BOX AND VALVE BOX TO PROPOSED GRADE.	1 LS
84	CONSTRUCT BIOSWALE PER DETAIL ON SHEET 7.	1 LS
85	CONSTRUCT TRASH ENCLOSURE GATES AND ROOFING PER DETAILS ON SHEET 5.	1 LS
86	CONSTRUCT NON-PERMEABLE CONCRETE PAVERS IN PEDESTRIAN AREAS PER DETAIL ON SHEET 8.	327 SF
87	CONSTRUCT 4" THICK CONCRETE PAVING WITH RIVER ROCK PER DETAIL ON SHEET 8.	77 SF
89	CONSTRUCT VARIABLE HEIGHT CONCRETE CURB AND GUTTER, MODIFIED TYPE A, PER CITY OF HERMOSA BEACH STANDARD PLAN NO. 101. CURB HEIGHT PER PLAN.	17 LF

PAVEMENT LEGEND:



PRECISE GRADING GENERAL NOTES:

- SEE SHEET C-1 FOR LEGEND AND ABBREVIATIONS.
- SEE SHEET C-1 FOR WATER QUALITY REQUIREMENTS.
- SEE SHEET C-3 FOR DRAINAGE PLAN.
- SEE SHEET C-4 FOR WALL PLAN.
- SEE SHEET E-3 FOR LOCATION OF ELECTRIC VEHICLE (EV) AND NEIGHBORHOOD ELECTRIC VEHICLE (NEV) CHARGING UNITS, MULTI-SPACE PAY STATIONS AND OTHER APPURTENANCES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE MADE TO ANY EXISTING FACILITIES THAT ARE TO BE PROTECTED IN PLACE DURING DEMOLITION AND CONSTRUCTION. CONTRACTOR SHALL REPAIR/REPLACE THOSE FACILITIES AT HIS OWN EXPENSE.
- CURB FACE (CF) DIMENSIONS SHALL BE 6" UNLESS OTHERWISE NOTED ON THE PLAN.



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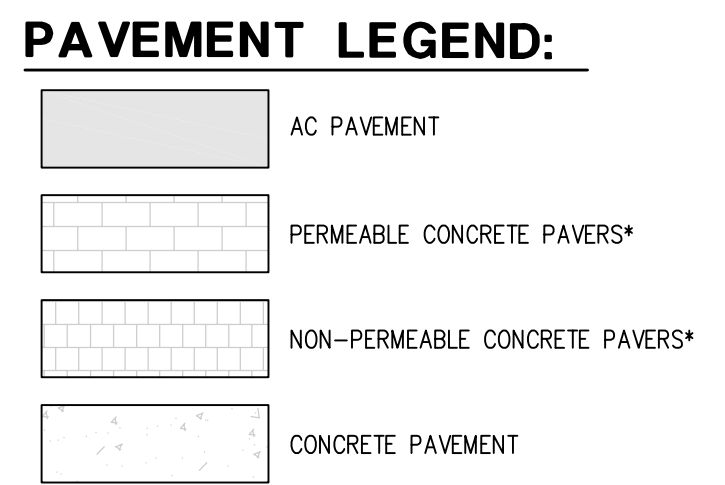
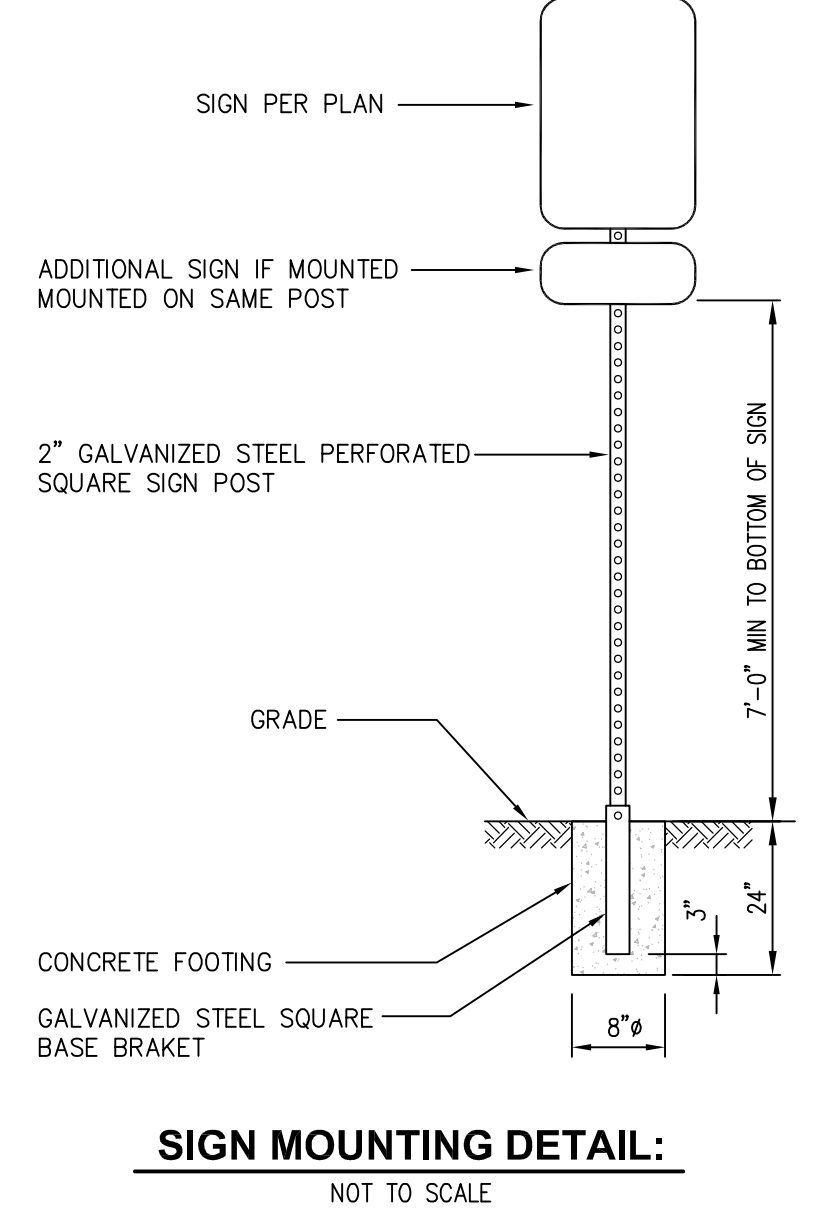
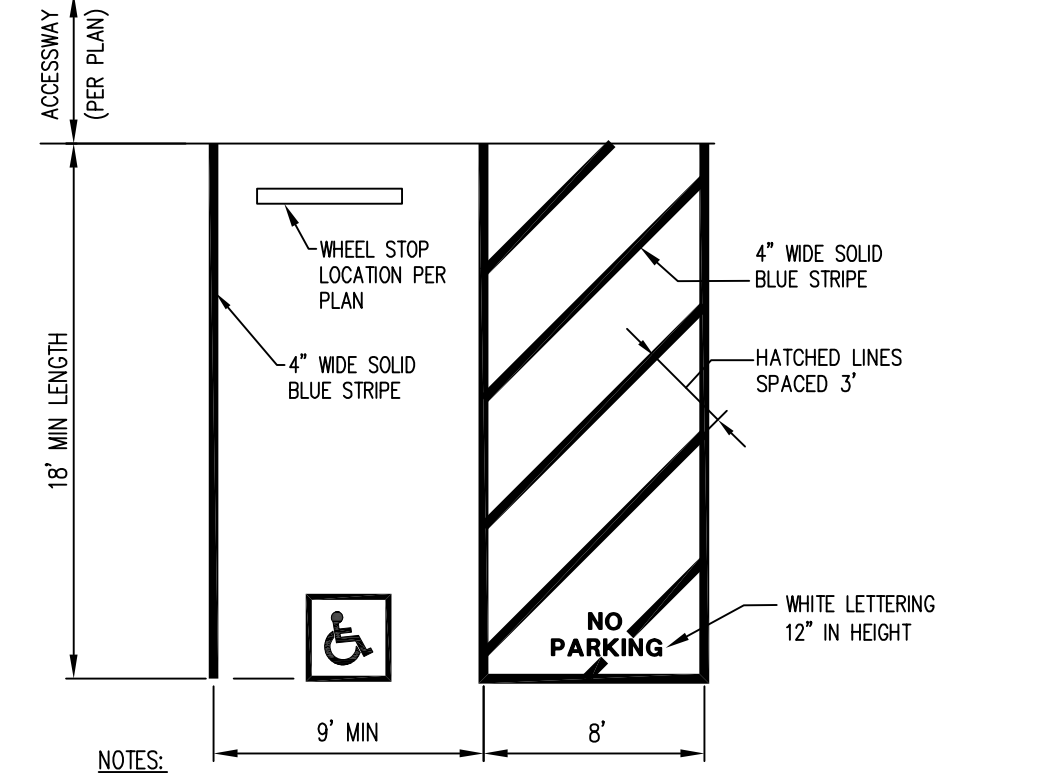
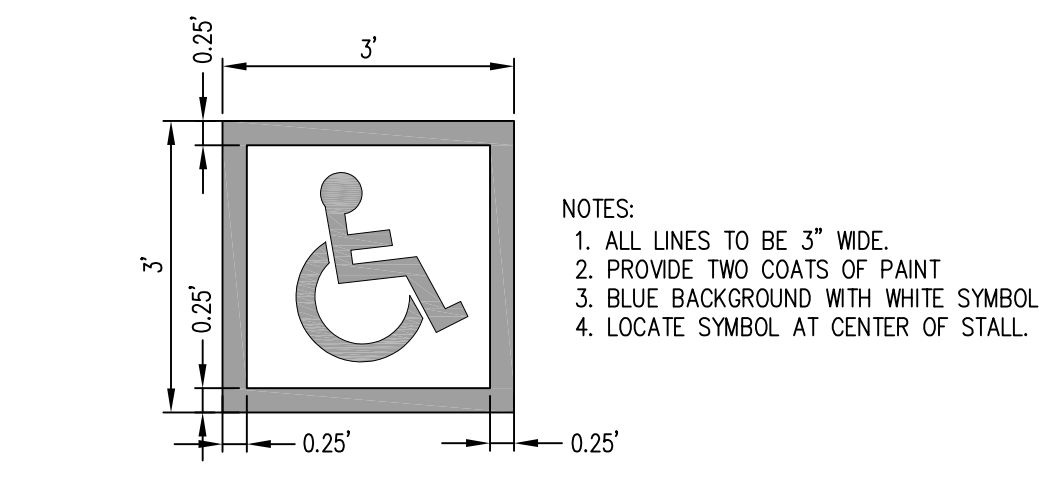
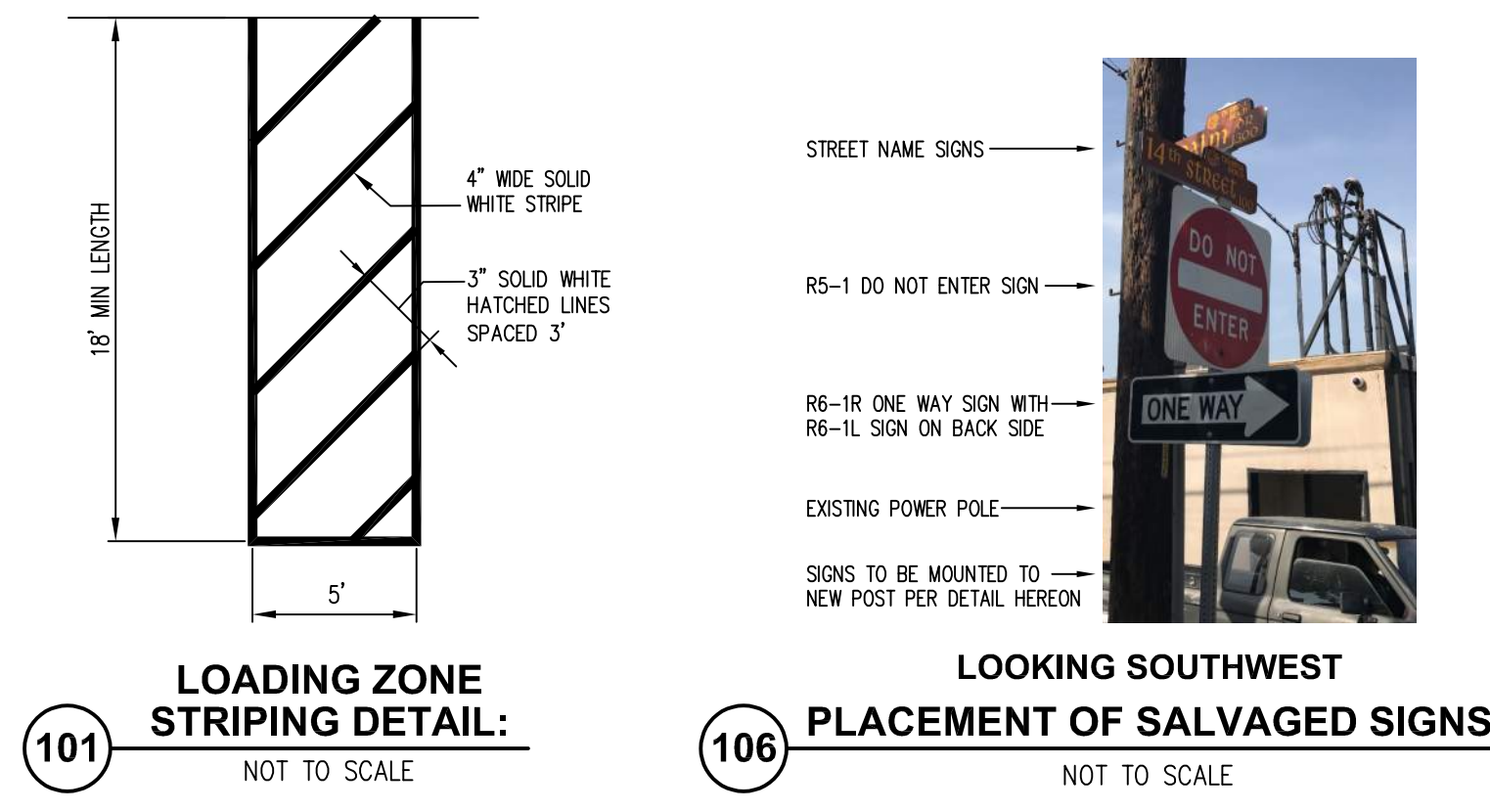
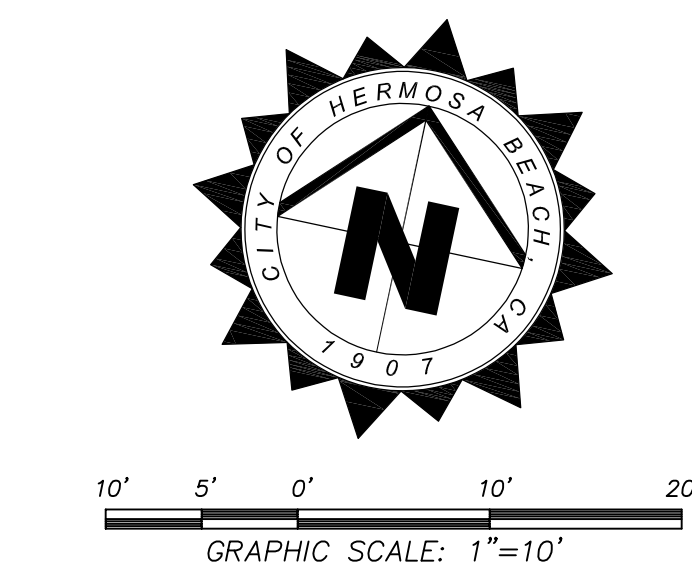
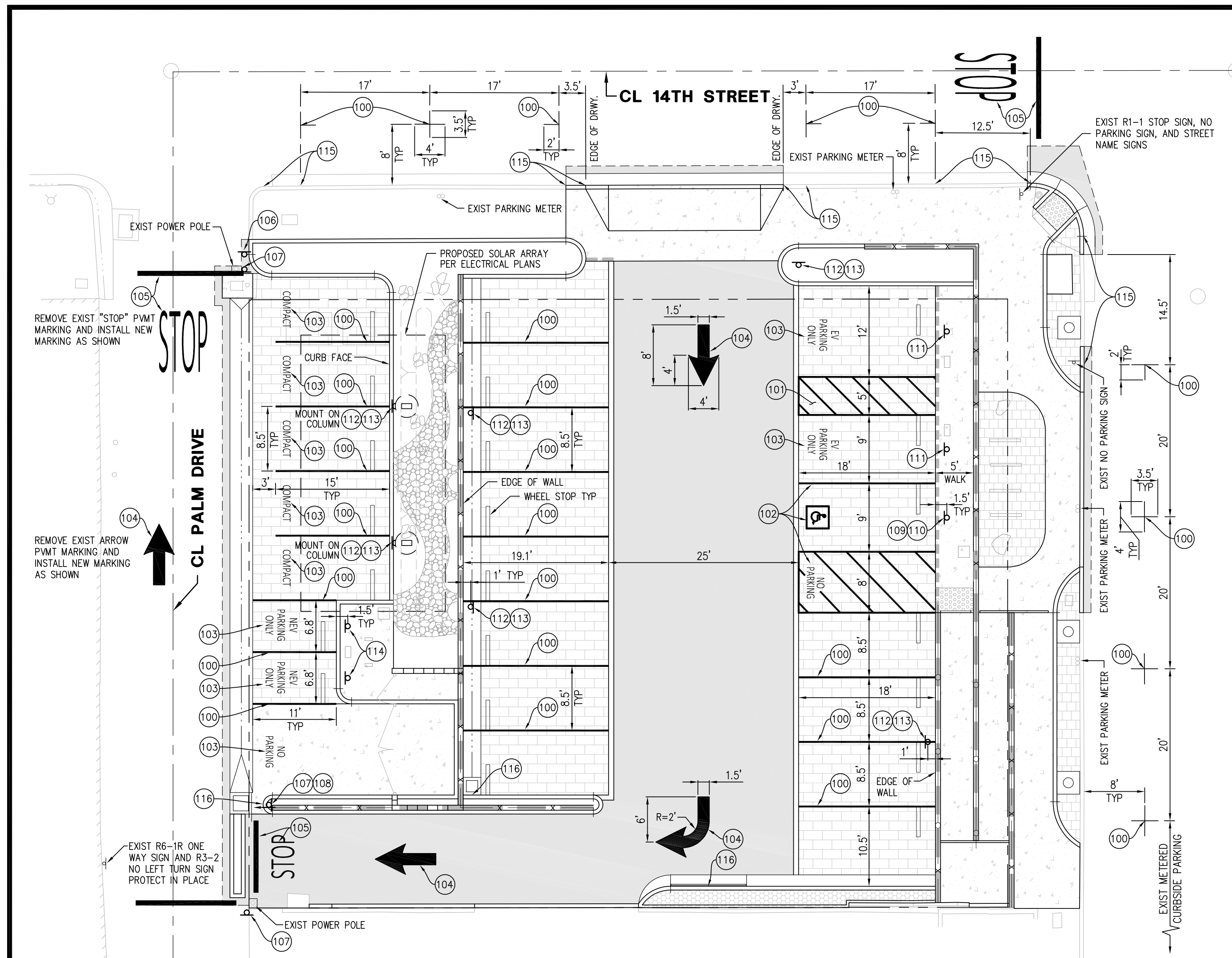
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PLANS PREPARED BY:
MOHAMMAD MOHAMMADABADI, P.E. ROE 42615, EXPIRES 3/31/26
DATE: 6/25/2024

CITY OF HERMOSA BEACH
PUBLIC WORKS DEPARTMENT
RECOMMENDED FOR PERMIT ISSUANCE:
J. Okami
DATE: 10/03/2024

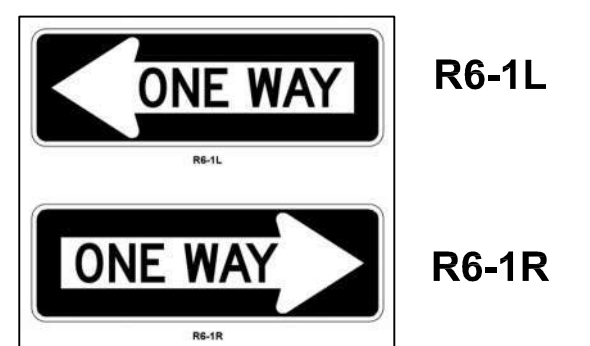
PUBLIC IMPROVEMENT PLANS
PARKING LOT "D"
1331 MANHATTAN AVENUE
GRADING & PAVING PLAN

FILE NUMBER
XXXXX-CIVIL
C-5
SHT. 5 OF 31



SIGNAGE AND STRIPING NOTES AND QUANTITIES:

NO.	DESCRIPTION	QUANTITY
100	PAINT 3" WIDE SOLID WHITE STRIPE.	1 LS
101	PAINT LOADING ZONE STRIPING PER DETAIL HEREON.	1 LS
102	PAINT HANDICAP PARKING STRIPING AND STENCILING PER DETAIL HEREON.	1 LS
103	PAINT 12" HIGH SOLID WHITE LETTERING AS NOTED ON PLAN.	1 LS
104	PAINT SOLID WHITE DIRECTION ARROW AS NOTED ON PLAN.	1 LS
105	PAINT 12" WIDE SOLID WHITE STOP BAR WITH 36" HIGH SOLID WHITE LETTERING.	1 LS
106	INSTALL SALVAGED R5-1, R6-1R, R6-1L, AND STREET NAME SIGNS PER DETAIL HEREON.	5 EA
107	INSTALL R1-1 STOP SIGN WITH MOUNTING PER DETAIL HEREON.	3 EA
108	INSTALL R6-1L ONE WAY SIGN. MOUNT SIGN 36" ABOVE TOP OF NEW CURB.	1 EA
109	INSTALL SALVAGED HANDICAP PARKING SIGN AND MOUNT PER DETAIL HEREON.	1 EA
110	INSTALL HANDICAP VAN ACCESSIBLE SIGN BELOW SALVAGED HANDICAP PARKING SIGN.	1 EA
111	INSTALL ELECTRIC VEHICLE PARKING SIGN WITH MOUNTING PER DETAIL HEREON.	2 EA
112	INSTALL SALVAGED RESTRICTED PARKING SIGN AND MOUNT PER DETAIL HEREON UNLESS OTHERWISE NOTED ON PLAN.	6 EA
113	INSTALL SALVAGED SMOKE FREE ZONE SIGN BELOW SALVAGED NO PARKING SIGN UNLESS OTHERWISE NOTED ON PLAN.	6 EA
114	INSTALL NEV PARKING SIGN AND MOUNT PER DETAIL HEREON.	2 EA
115	PAINT CURB RED.	1 LS
116	CATCH BASIN STENCILING ON CURB PER CITY OF HERMOSA BEACH STANDARDS.	3 EA



HANDICAP VAN ACCESSIBLE PARKING SIGN



NEIGHBORHOOD ELECTRIC VEHICLE PARKING SIGN

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PLANS PREPARED BY:

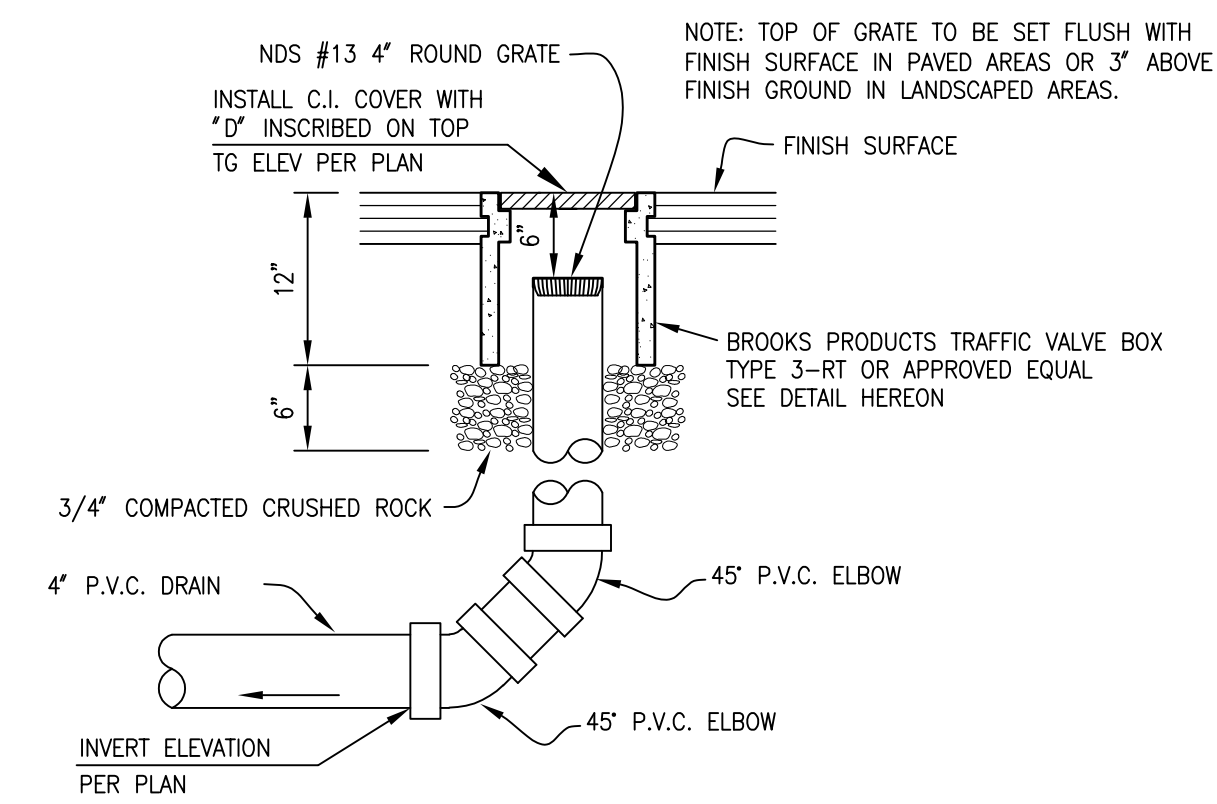
MOHAMMAD MOHAMMADABADI, P.E. RCE 42615, EXPIRES 3/31/26 DATE 6/25/2024

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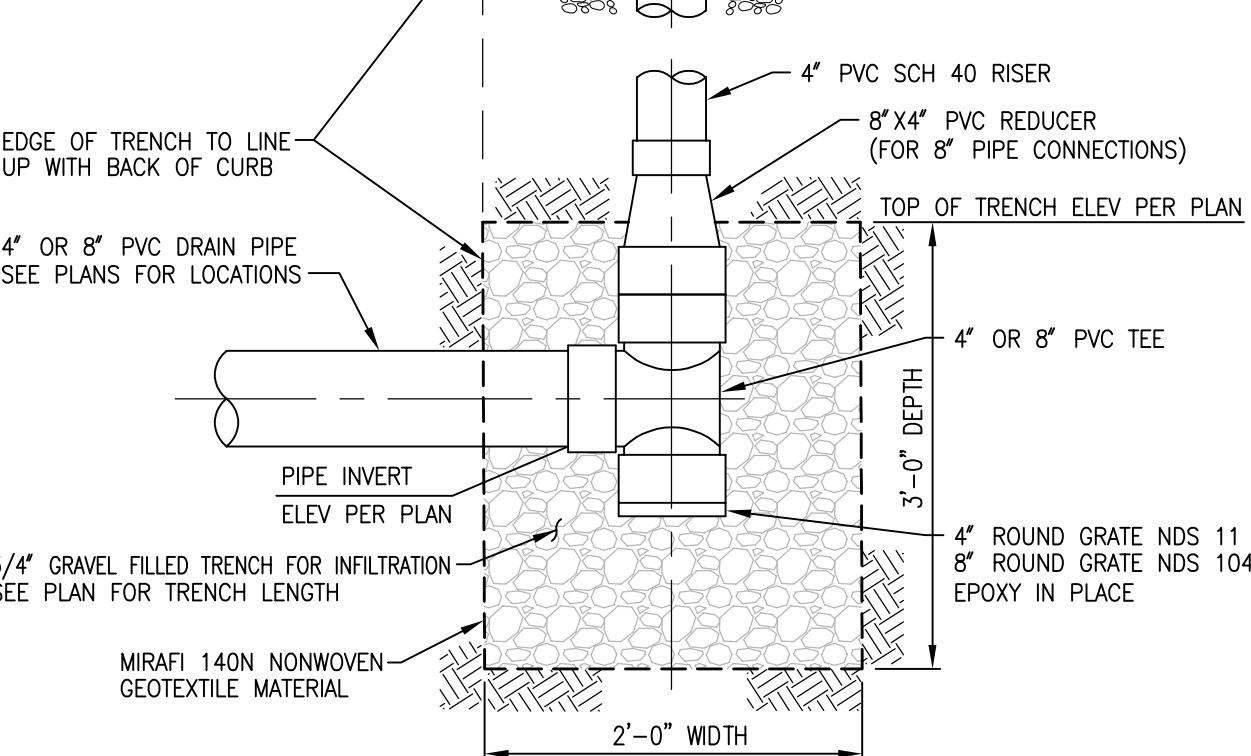
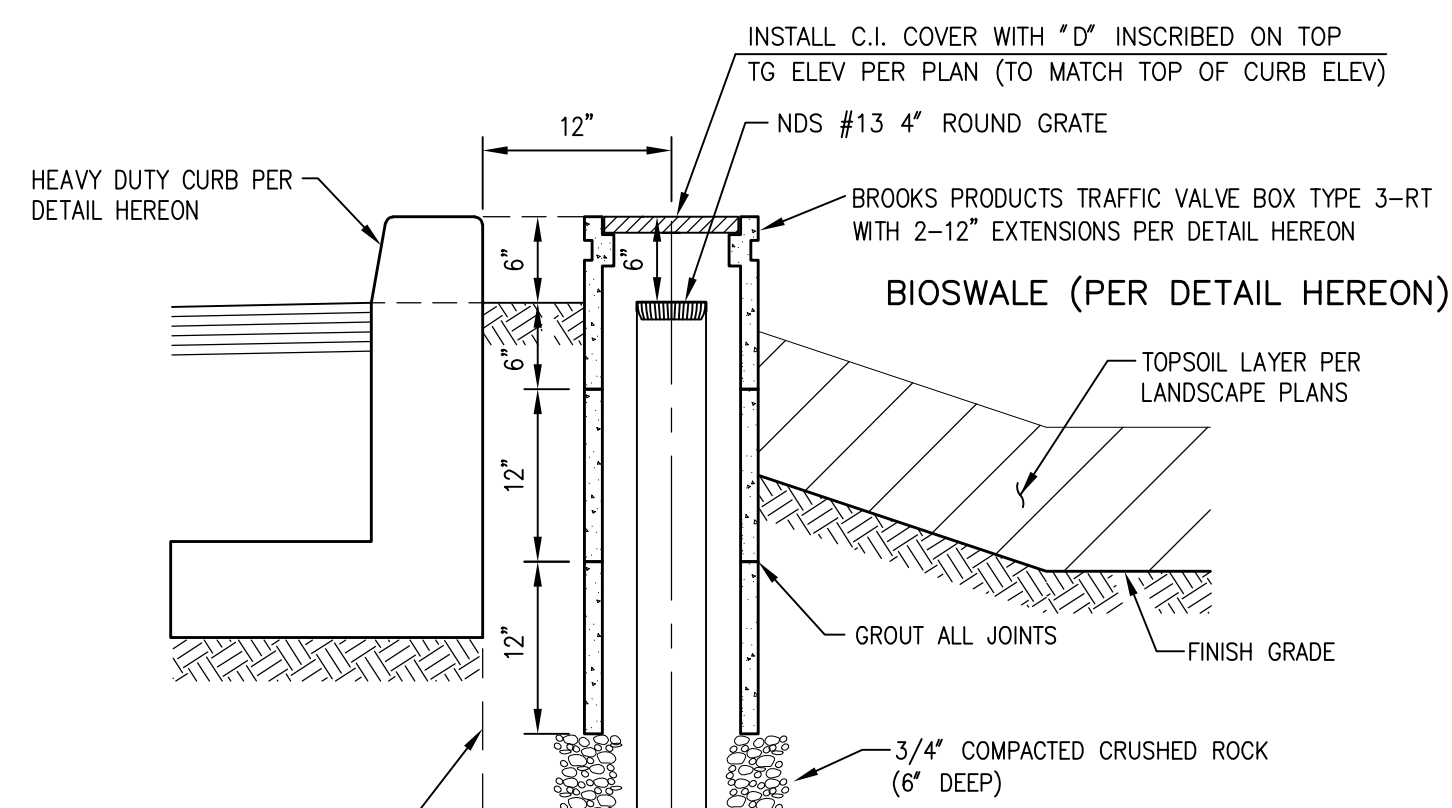
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PUBLIC IMPROVEMENT PLANS
PARKING LOT "D"
1331 MANHATTAN AVENUE
SIGNAGE AND STRIPING PLAN

FILE NUMBER
XXXXX-CIVIL
C-6
SHT. 6 OF 31



36 AREA DRAIN CLEANOUT DETAIL:
NOT TO SCALE



41 INFILTRATION TRENCH DETAIL:
NOT TO SCALE

1818 CAST IRON GRATE
PARKWAY ONLY 58 lbs.
1818 STEEL GRATES
PARKWAY 27 lbs.
TRAFFIC 49 lbs.

1818 STEEL COVER
PARKWAY 44 lbs.
TRAFFIC 65 lbs.

1818 TOP SECTION (WITH GALVANIZED FRAME)
NOTE: USE 12", 18", 24" LOWERS TO INCREASE DEPTH UP TO A MAXIMUM OF 72"

1818 LOWER SECTION (NO FRAME)
NOTE: USE 12", 18", 24" LOWERS TO INCREASE DEPTH UP TO A MAXIMUM OF 72"

1818 BASE
WT. 270 lbs.

18" x 18" CATCH BASIN

TOP SECTION	HT.	LBS	KNOCK-OUT
1818 T6	6"	215	NONE
1818 T12	12"	370	(4) 5" x 10"
1818 T18	18"	555	(4) 9" x 11"
1818 T24	24"	785	(4) 9" x 11"

EXTENSION SECTION	HT.	LBS	KNOCK-OUT
1818 E6	6"	215	NONE

LOWER SECTION	HT.	LBS	KNOCK-OUT
1818 L12	12"	370	(4) 5" x 10"
1818 L18	18"	555	(4) 9" x 11"
1818 L24	24"	785	(4) 9" x 11"

NOTES:
1. GRATES AND COVERS AVAILABLE PAINTED BLACK OR GALVANIZED
2. "ADA" GRATES AVAILABLE IN PARKWAY & TRAFFIC
3. "HEEL PROOF" GRATES AVAILABLE IN PARKWAY & TRAFFIC
4. A TOP SECTION WITH FRAME MUST BE USED IF BOLT DOWN REQUIRED

DATE: 04-20-95
REVISED DATE: 02-28-00

BROOKS PRODUCTS
1818 CB

2424 CAST IRON GRATE
PARKWAY 112 lbs.
2424 STEEL GRATES
PARKWAY 48 lbs.
TRAFFIC 103 lbs.

2424 STEEL COVER
PARKWAY 81 lbs.
TRAFFIC 114 lbs.

2424 TOP SECTION (WITH GALVANIZED FRAME)
NOTE: USE 12", 18", 24" LOWERS TO INCREASE DEPTH UP TO A MAXIMUM OF 72"

2424 LOWER SECTION (NO FRAME)
NOTE: USE 12", 18", 24" LOWERS TO INCREASE DEPTH UP TO A MAXIMUM OF 72"

2424 BOTTOM SECTION (WITH OR WITHOUT FRAME)

24" x 24" CATCH BASIN

TOP SECTION	HT.	LBS	KNOCK-OUTS
2424 T6	6"	270	NONE
2424 T12	12"	495	(4) 6" x 11"
2424 T18	18"	745	(4) 9" x 12"
2424 T24	24"	870	(4) 14" x 14"

EXTENSION SECTION	HT.	LBS	KNOCK-OUTS
2424 E6	6"	270	NONE

LOWER SECTION	HT.	LBS	KNOCK-OUTS
2424 L12	12"	495	(4) 6" x 11"
2424 L18	18"	745	(4) 9" x 12"
2424 L24	24"	870	(4) 14" x 14"

BOTTOM SECTION	HT.	LBS	KNOCK-OUTS
2424 B30	30"	1595	(4) 18" x 18"
2424 B36	36"	1905	(4) 18" x 18"

NOTES:
1. GRATES AND COVERS AVAILABLE PAINTED BLACK OR GALVANIZED
2. "ADA" GRATES AVAILABLE IN PARKWAY & TRAFFIC
3. "HEEL PROOF" GRATES AVAILABLE IN PARKWAY ONLY
4. A TOP SECTION WITH FRAME MUST BE USED IF BOLT DOWN REQUIRED

DATE: 11-23-99
REVISED DATE: 02-28-00

BROOKS PRODUCTS
2424 CB

No. 3-RT - RISER RING - 1 1/4"
WT. 15 lbs.

No. 3-RT - RISER RING - 2"
WT. 16 lbs.

No. 3-RT - RISER RING - 6"
WT. 13 lbs.

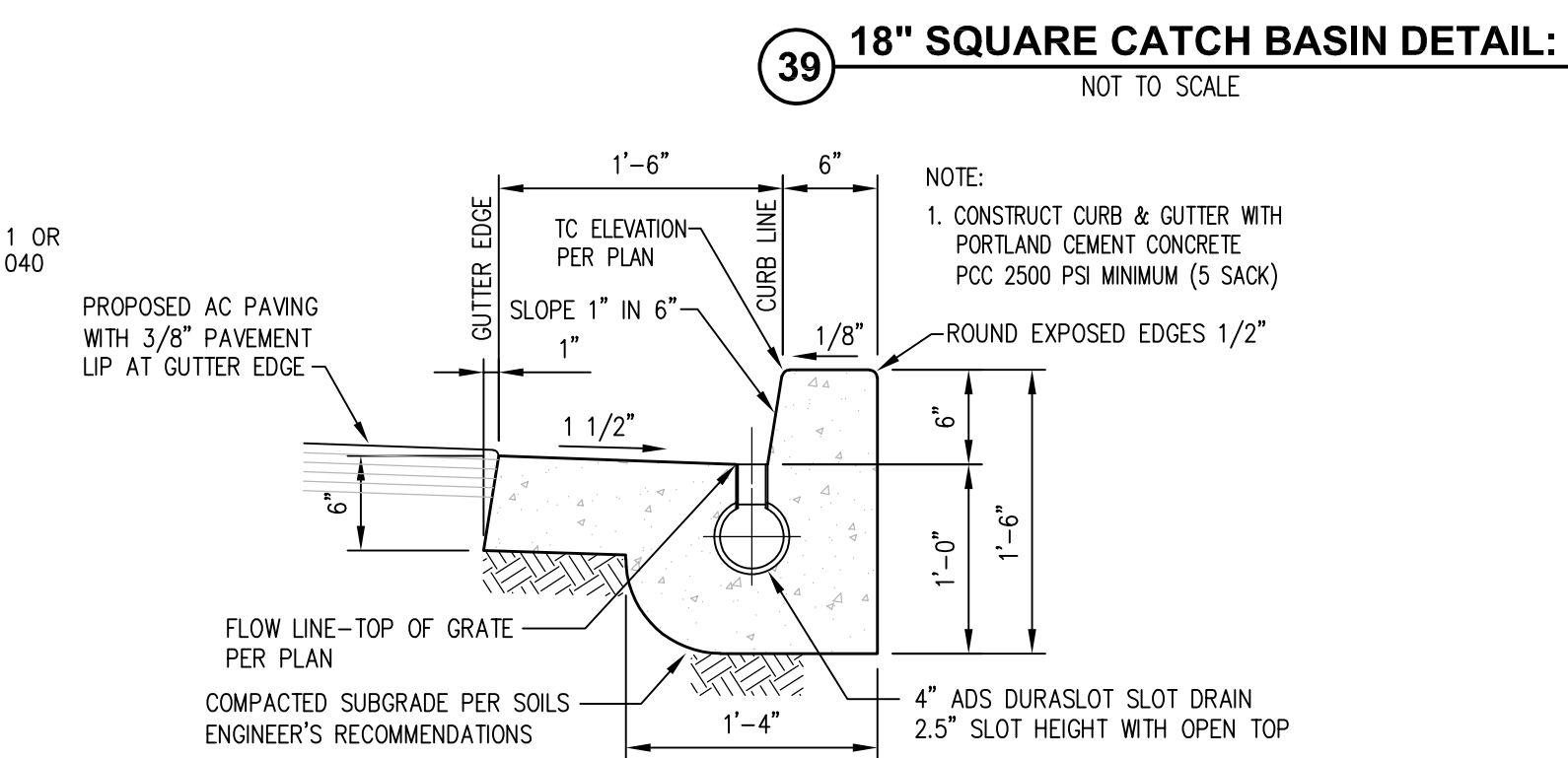
No. 3-RT - RISER RING - 12"
WT. 23 lbs.

No. 3-RT - CI COVER
WT. 12 lbs.

No. 3-RT - BODY
WT. 54 lbs.

10" Dia. x 12" TRAFFIC VALVE BOX

BROOKS PRODUCTS
3-RT



BENCH MARK:
No. QY11328, ELEV. 15.323 FEET
DATE ADJ. 2005, QUAD. HAWTHORNE/TORRANCE

Underground Service Alert
DigAlert
CALL: TOLL FREE 811
TWO WORKING DAYS BEFORE YOU DIG

IMPORTANT NOTICE
SECTION 4212/4217 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A PERMIT TO EXCAVATE WILL BE VALID.

REVISIONS	No.	DESCRIPTION	DATE

AS
ADAMS STREETER
Civil Engineers
16755 Von Karman, Suite 150, Irvine, CA 92606 (949) 474-2390 | adams-streeter.com

PLANS PREPARED BY:
Mohammad Mohammadabadi, P.E.
No. 42615
EXP. 3-31-26
CIVIL
STATE OF CALIFORNIA

DATE: 6/25/2024

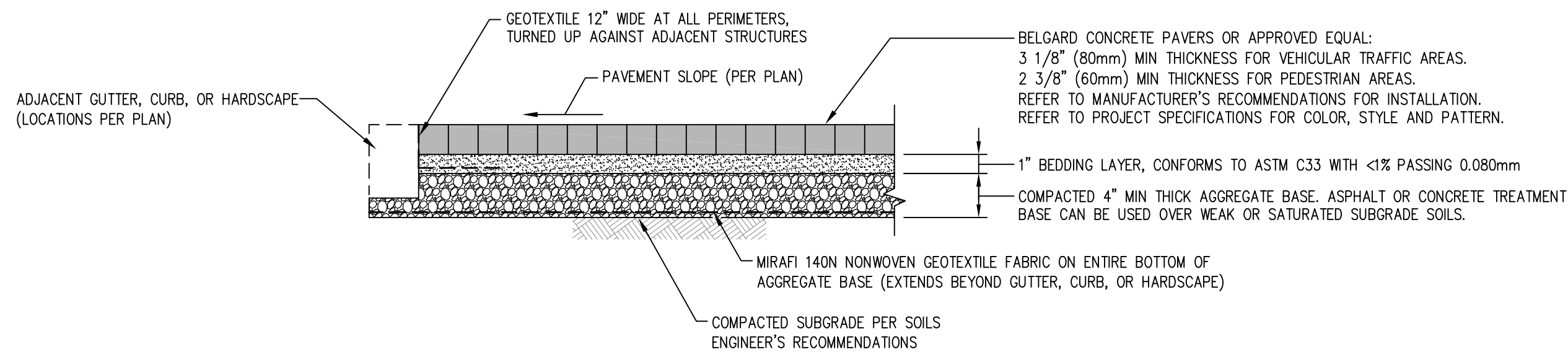
CITY OF HERMOSA BEACH
PUBLIC WORKS DEPARTMENT

RECOMMENDED FOR PERMIT ISSUANCE:
J. Okami
DATE: 10/03/2024

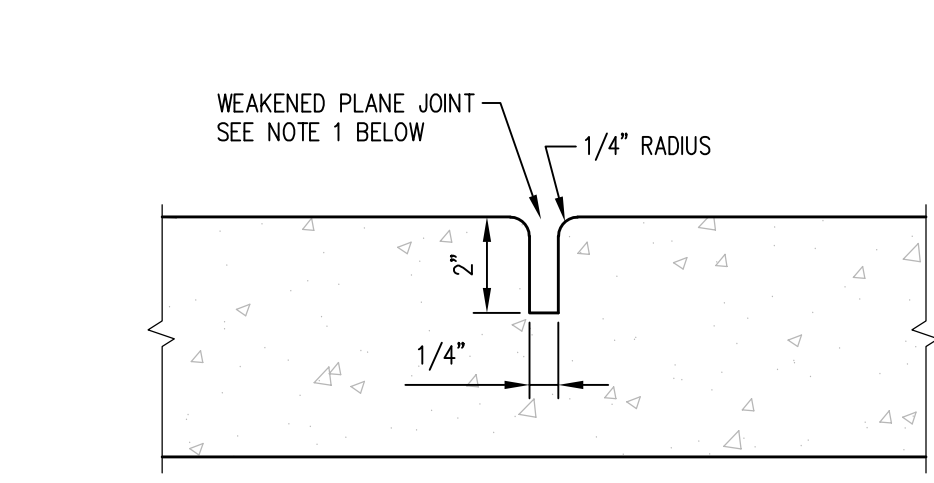
PUBLIC IMPROVEMENT PLANS
PARKING LOT "D"
1331 MANHATTAN AVENUE
SITE DETAILS

FILE NUMBER
XXXXX-CIVIL

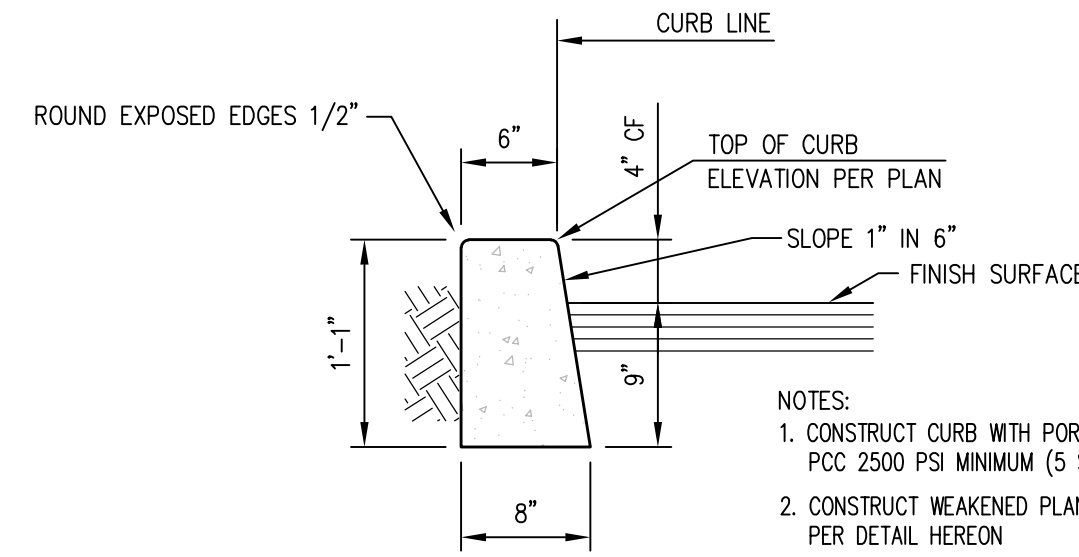
C-7
SHT. 7 OF 31



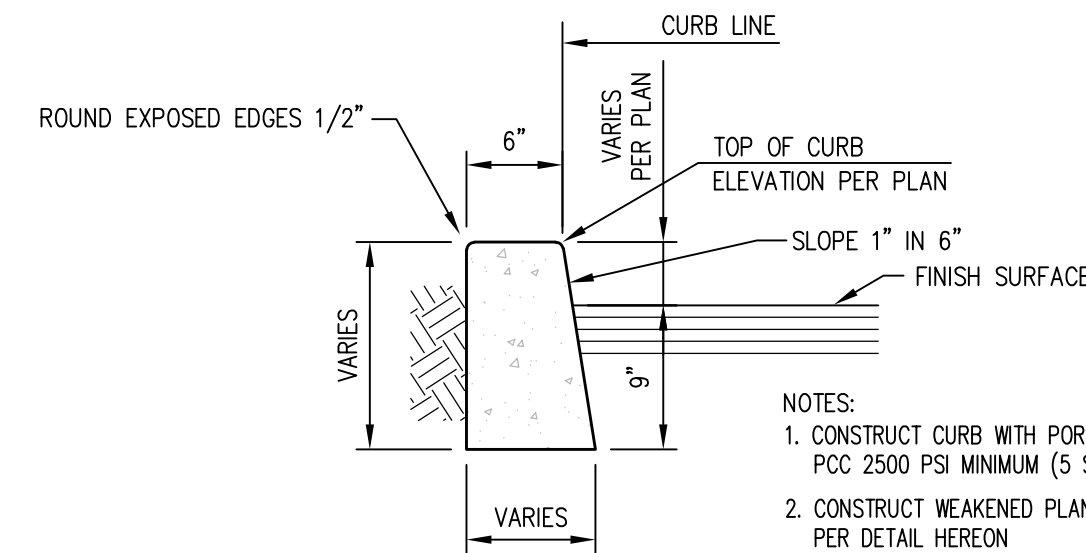
86 NON - PERMEABLE CONCRETE PAVERS SECTIONS:
NOT TO SCALE



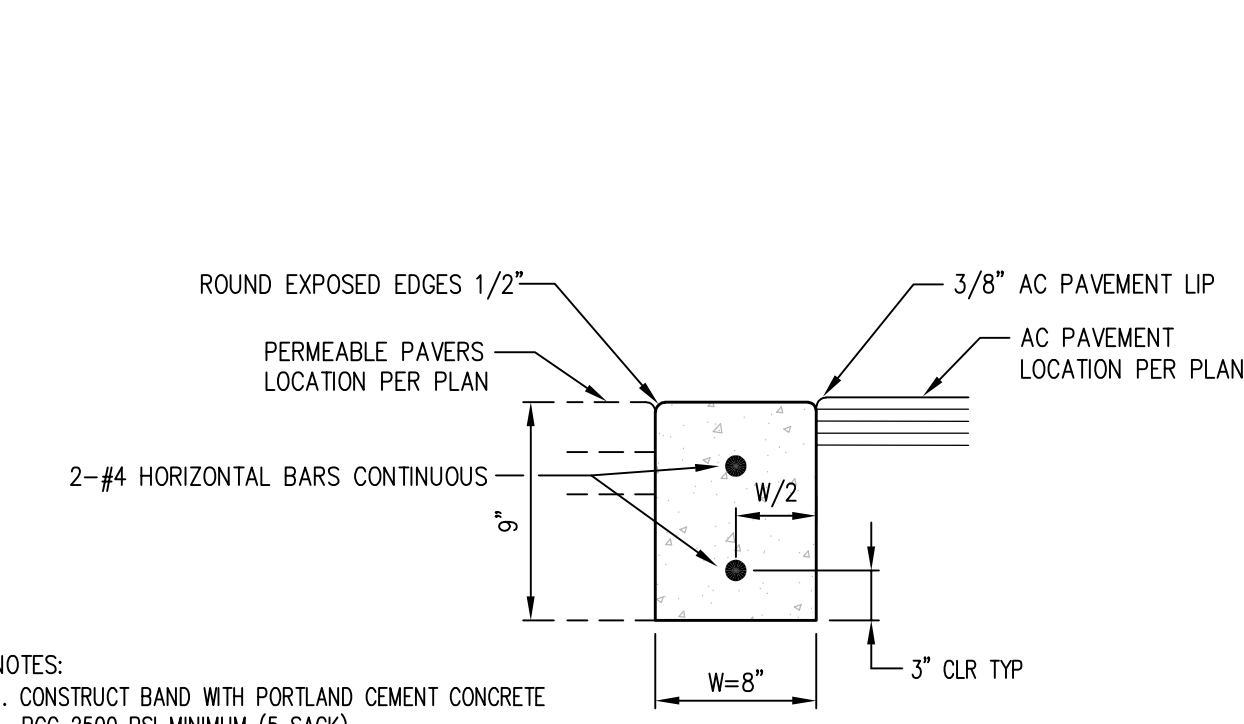
68 WEAKENED PLANE JOINT DETAIL:
NOT TO SCALE



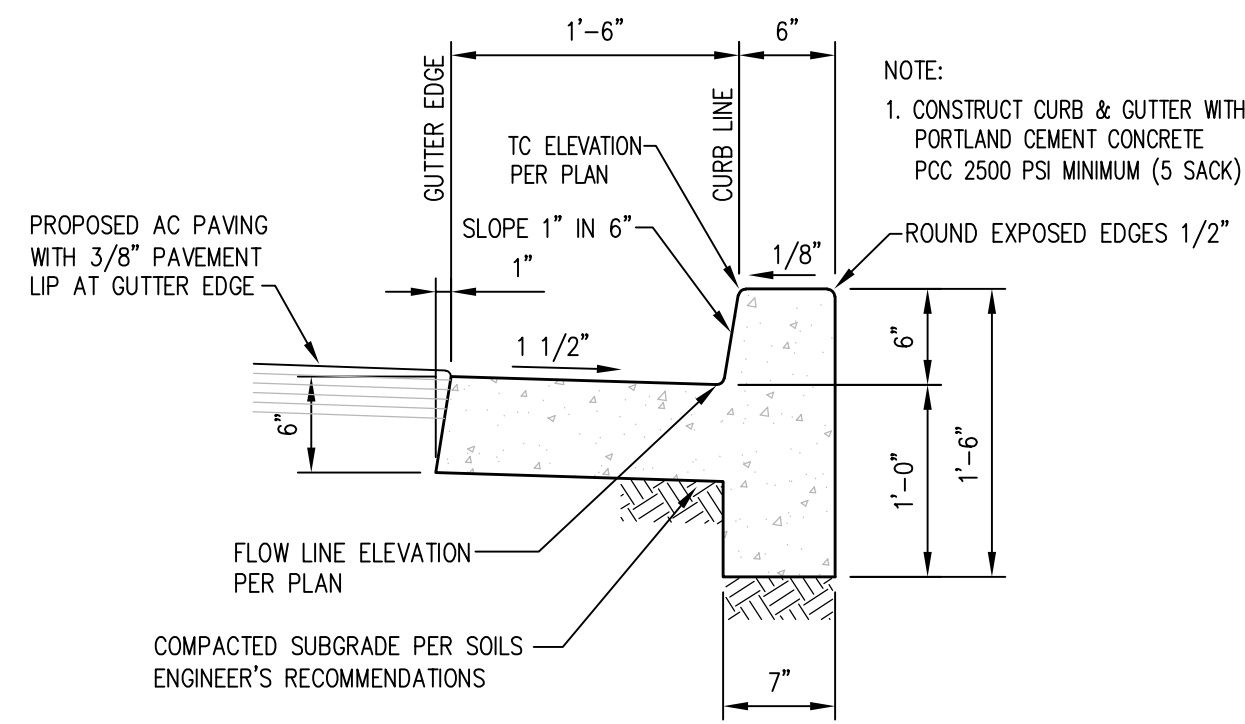
71 4\"/>



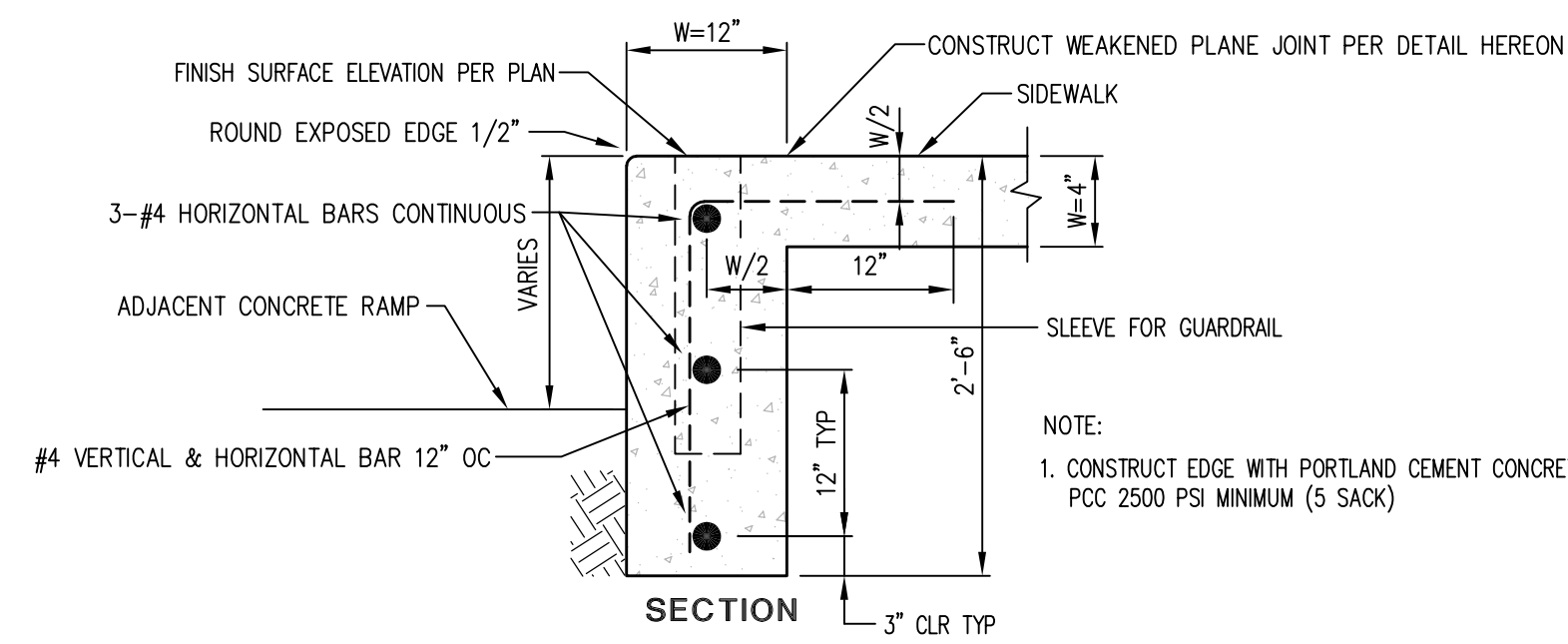
72 VARIABLE HEIGHT CONCRETE CURB ONLY DETAIL:
NOT TO SCALE



74 CONCRETE BAND DETAIL:
NOT TO SCALE

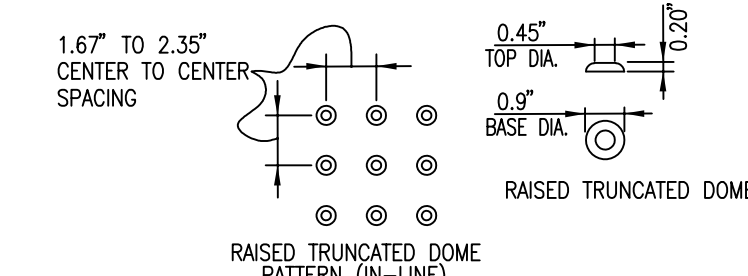


76 MODIFIED TYPE A CONCRETE CURB AND GUTTER DETAIL:
NOT TO SCALE

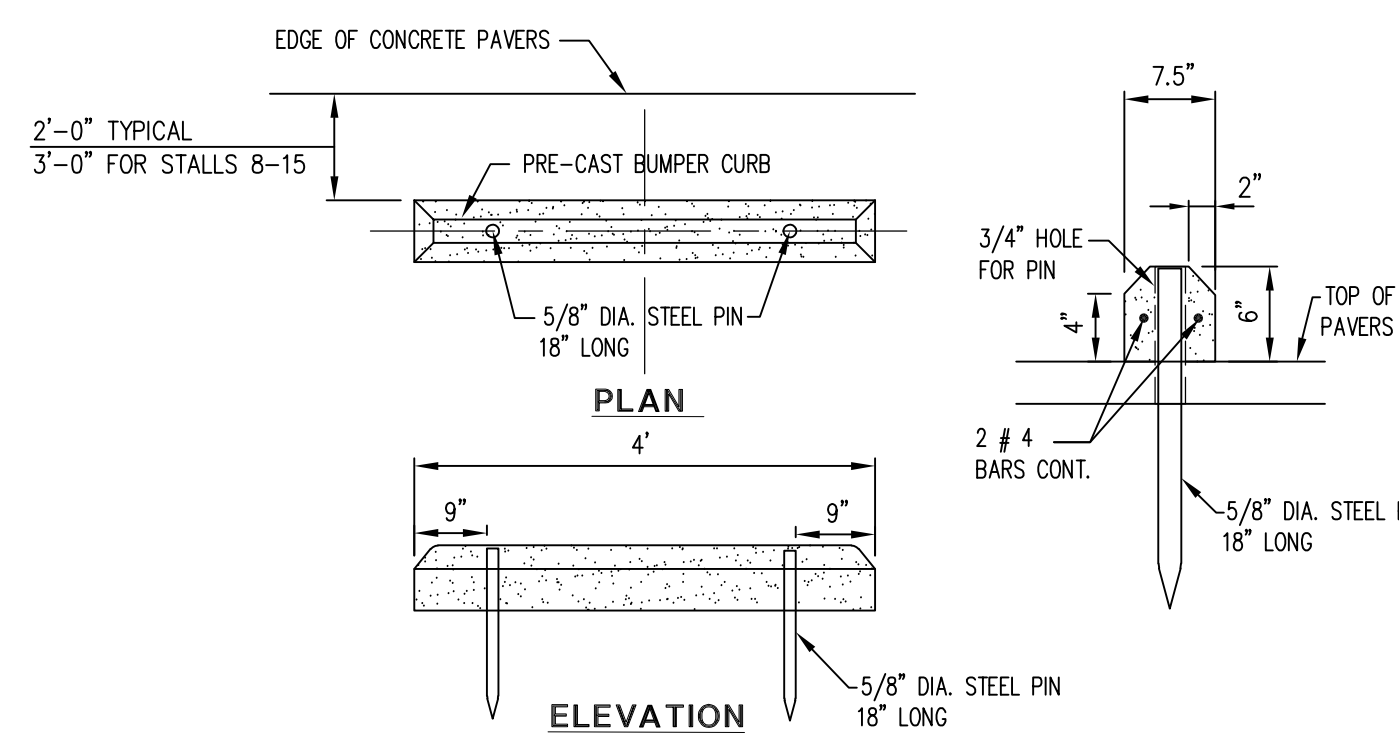


79 EXTENDED DEPTH SIDEWALK EDGE DETAIL:
NOT TO SCALE

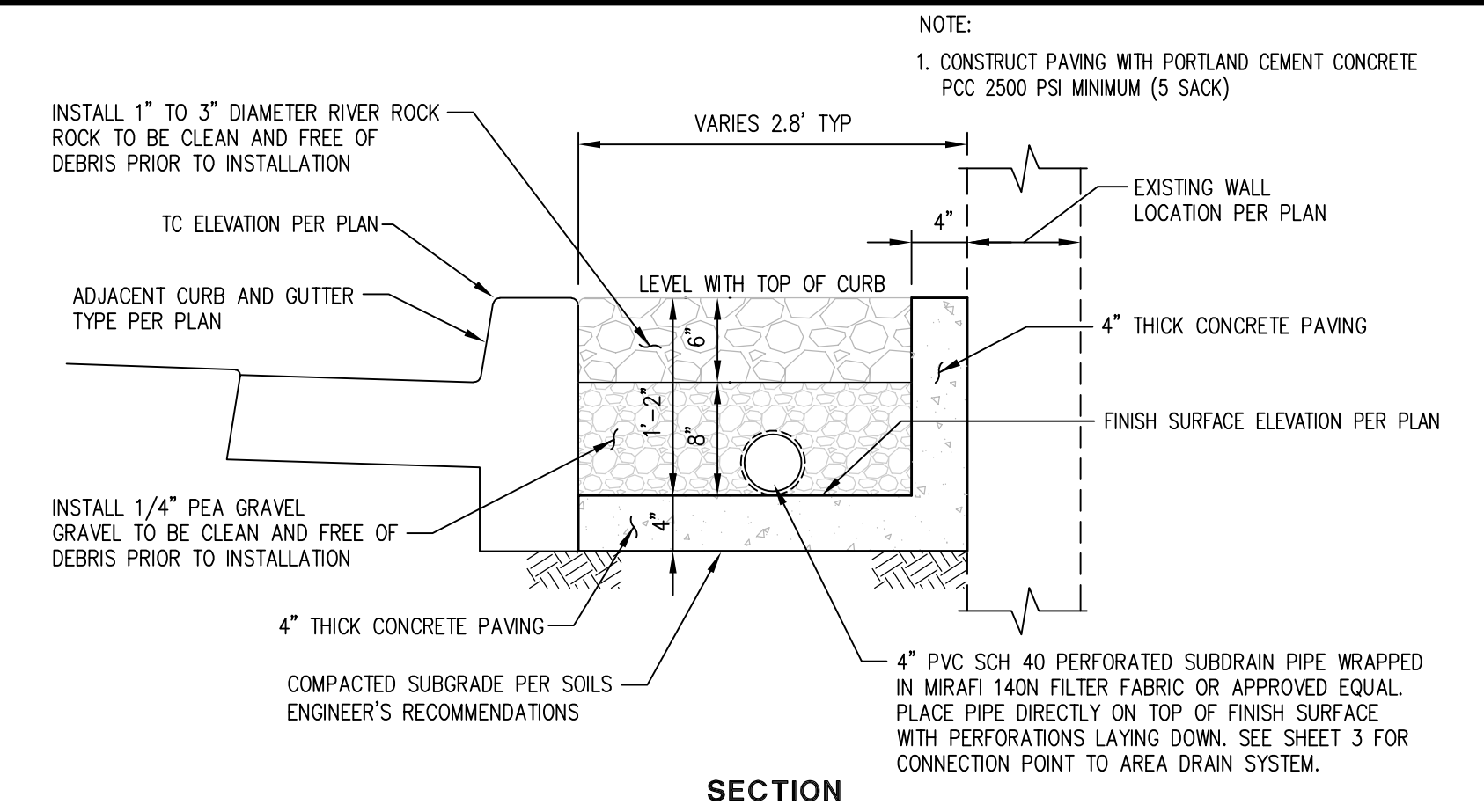
- NOTES:
- ALL PEDESTRIAN WALKING SURFACES THAT ARE PART OF AN ACCESSIBLE ROUTE WITH ENHANCED SURFACES MUST BE ACCESSIBLE TYPE FOR THE DISABLED PER CBC 11B-302.1, 11B-403.
 - ONLY APPROVED DSA-AC DETECTABLE WARNING PRODUCTS (TRUNCATED DOMES) AND DIRECTIONAL SURFACES SHALL BE INSTALLED AS PROVIDED IN THE CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 24, PART 1, CHAPTER 5, ARTICLES 2, 3, AND 4. REFER TO CCR TITLE 24, PART 12, CHAPTERS 11B, SECTION 12-11B.205, FOR BUILDING AND FACILITY ACCESS SPECIFICATIONS FOR PRODUCT APPROVAL FOR DETECTABLE WARNING PRODUCTS AND DIRECTIONAL SURFACES.



80 DETECTABLE WARNING SURFACE DETAIL (TRUNCATED DOMES)
NOT TO SCALE



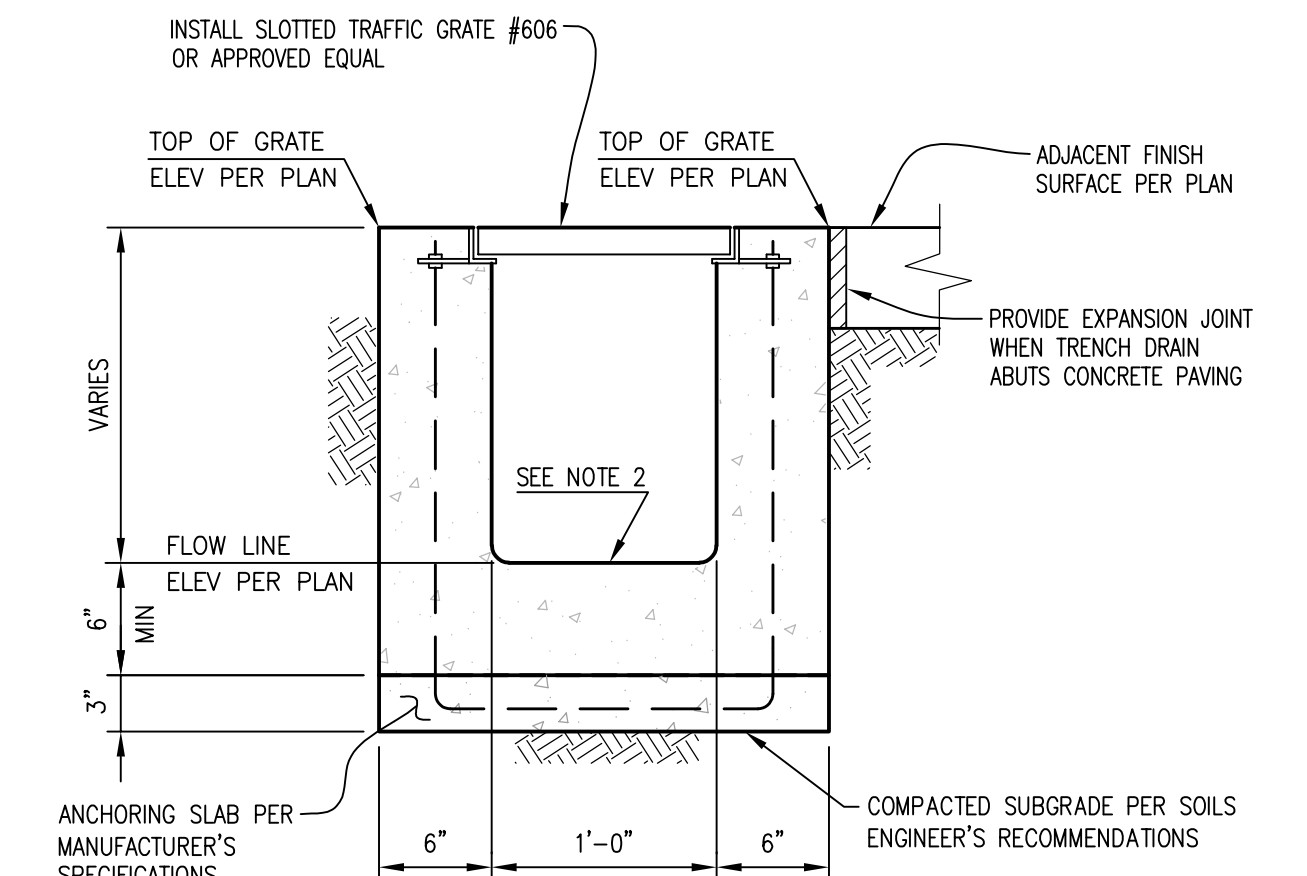
81 PRECAST CONCRETE WHEEL STOP DETAIL
NOT TO SCALE



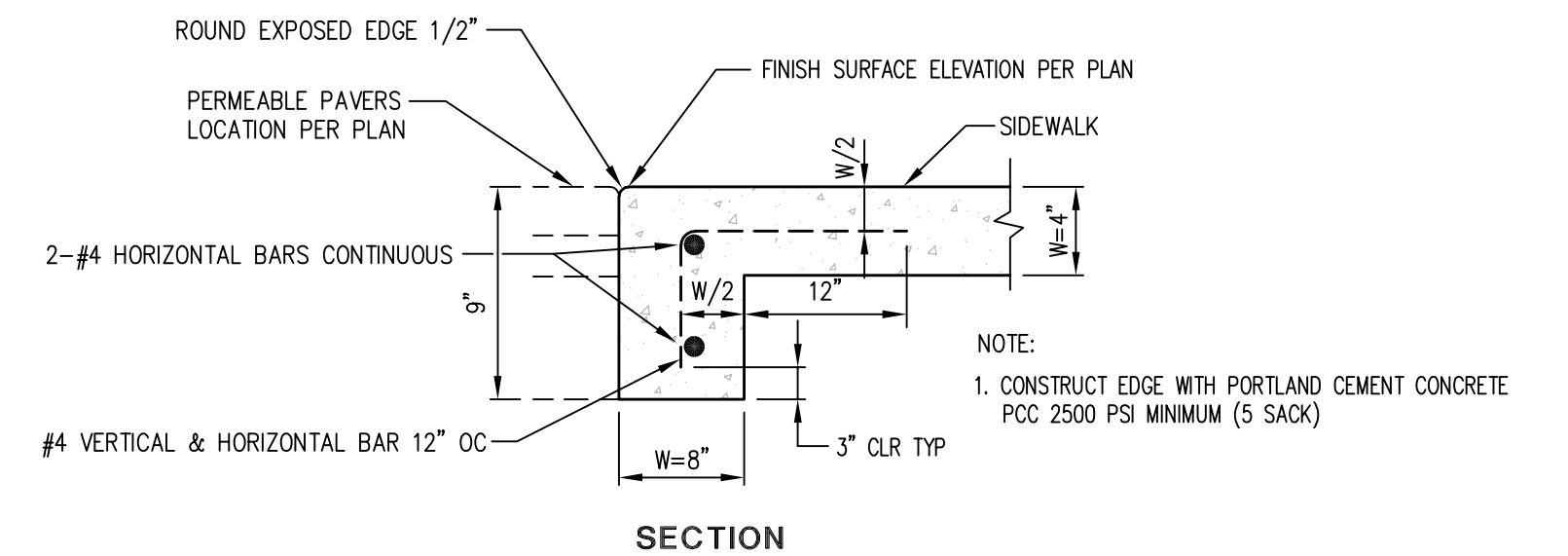
87 CONCRETE PAVING WITH RIVER ROCK AND SUBDRAINAGE DETAIL:
NOT TO SCALE

CONSTRUCT TRENCH DRAIN USING THE TFX TRENCH FORMING SYSTEM AND SPECIFICATIONS BY ABT, INC. OR APPROVED EQUAL.

- NOTES:
- CONCRETE SHALL BE CLASS 520-C-2500.
 - USE FLAT BOTTOM SHAPE FOR TRENCHES.



88 TRENCH DRAIN DETAIL:
NOT TO SCALE



82 EXTENDED DEPTH SIDEWALK EDGE ADJACENT TO PERMEABLE PAVERS:
NOT TO SCALE

BENCH MARK:

No. QY11328, ELEV. 15.323 FEET

DATE ADJ. 2005, QUAD. HAWTHORNE/TORRANCE

Underground Service Alert
DigAlert
CALL: TOLL FREE **811**
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IMPORTANT NOTICE
SECTION 4212/4217 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A PERMIT TO EXCAVATE WILL BE VALID.

REVISIONS		
No.	DESCRIPTION	DATE

AS
ADAMS STREETER
Civil Engineers
16755 Von Karman, Suite 150, Irvine, CA 92606 (949) 474-2330 | adams-streeter.com

PLANS PREPARED BY:

M.M. L.L.
6/25/2024
MOHAMMAD MOHAMMADABADI, P.E. RCE 42615, EXPIRES 3/31/26 DATE

CITY OF HERMOSA BEACH
PUBLIC WORKS DEPARTMENT
RECOMMENDED FOR PERMIT ISSUANCE:
J. Okami
10/03/2024

PUBLIC IMPROVEMENT PLANS
PARKING LOT "D"
1331 MANHATTAN AVENUE
SITE DETAILS

FILE NUMBER
XXXXX-CIVIL
C-8
SHT. 8 OF 31

ORCO CMU WALLS - LEVEL 2 QUALITY ASSURANCE OF MASONRY STEM

MINIMUM QUALITY ASSURANCE LEVEL TABLE 3.1, TMS 402-16		
DESIGNED IN ACCORDANCE WITH	RISK CATEGORY I, II OR III	RISK CATEGORY IV
PART 3 OR APPENDIX B OR APPENDIX C	LEVEL 2	LEVEL 3
PART 4	LEVEL 1	LEVEL 2
APPENDIX A	LEVEL 1	NOT PERMITTED

MINIMUM VERIFICATION REQUIREMENTS TABLE 3, TMS 602-16

MINIMUM VERIFICATION	REQUIRED
PRIOR TO CONSTRUCTION, VERIFICATION OF COMPLIANCE OF SUBMITTALS.	X
PRIOR TO CONSTRUCTION, VERIFICATION OF $F_{m, EXCEPT}$ WHERE SPECIFICALLY EXEMPTED BY THE CODE.	X
DURING CONSTRUCTION, VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) WHEN SELF-CONSOLIDATING GROUT IS DELIVERED TO THE PROJECT SITE.	X

MINIMUM SPECIAL INSPECTION REQUIREMENTS TABLE 4, TMS 602-16

INSPECTION TASK	FREQUENCY OF INSPECTION	
	CONTINUOUS DURING TASK	PERIODIC DURING TASK
1. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:		
PROPORTIONS OF SITE-PREPARED MORTAR.		X
GRADE, TYPE AND SIZE OF REINFORCEMENT.		X
SAMPLE PANEL CONSTRUCTION.		X
2. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:		
GROUT SPACE.		X
PLACEMENT OF REINFORCEMENT.		X
PROPORTIONS OF SITE-PREPARED GROUT.		X
3. VERIFY COMPLIANCE OF THE FOLLOWING DURING CONSTRUCTION:		
MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS.		X
PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION.		X
SIZE AND LOCATION OF STRUCTURAL ELEMENTS.		X
PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMP. < 40°F) OR HOT WEATHER (TEMP. > 90°F).		X
GROUT PLACEMENT IS IN COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS.	X	
4. OBSERVE PREPARATION OF GROUT SPECIMENS AND MORTAR SPECIMENS.		X

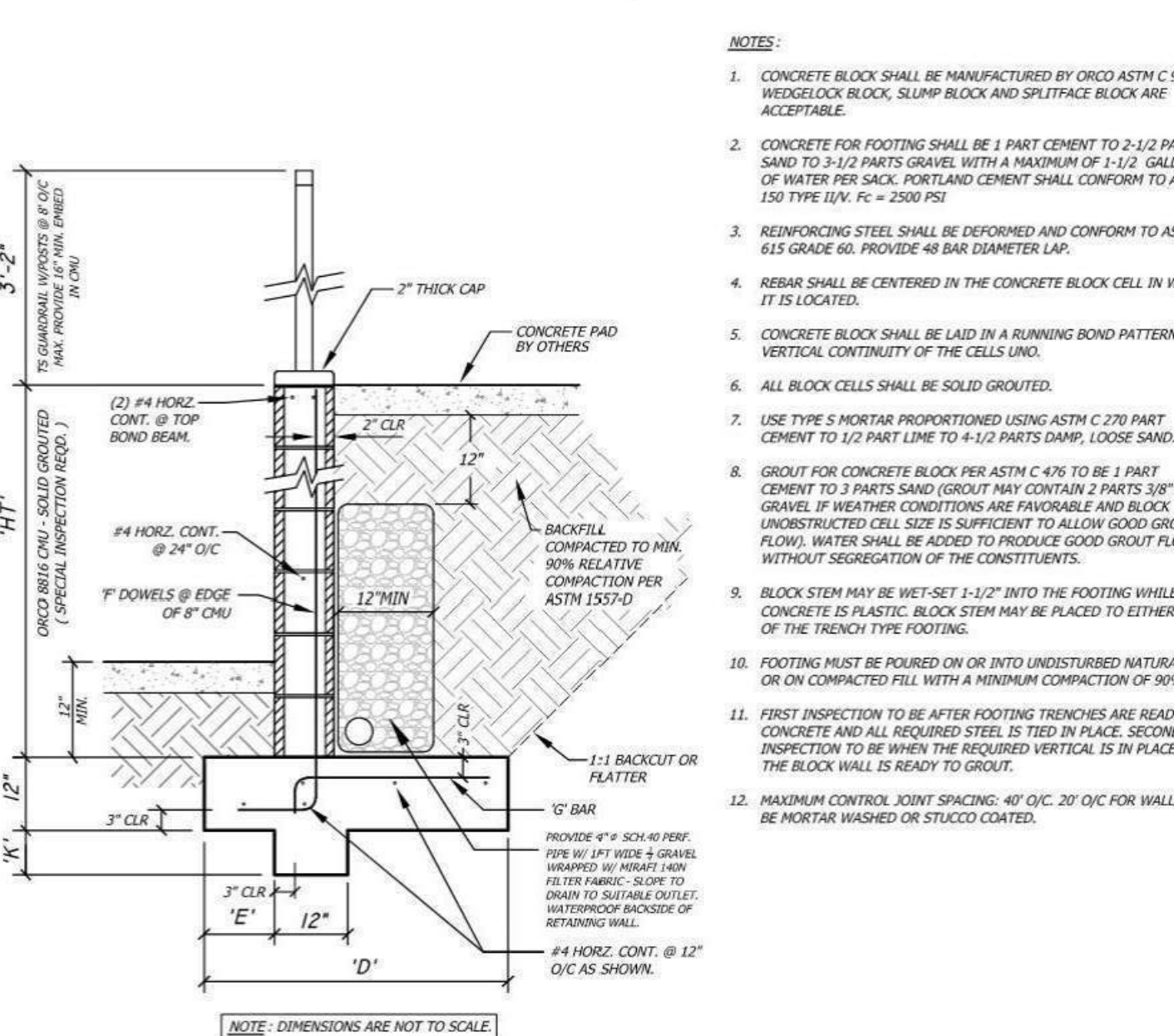


ORCO 2'-0" TO 4'-0" HIGH RETAINING WALL W/ 36" GUARDRAIL FOR 110 MPH 3 SEC. GUST @ EXP C

SPECIAL INSPECTION NOTE: PROVIDE LEVEL 2 SPECIAL INSPECTION PER TMS 602-16 TABLES 3 AND 4 OF THE MASONRY STEM.

DESIGN CRITERIA PER 2019 CBC:

- ALLOWABLE SOIL BEARING PRESSURE FOR FOOTINGS = 2000 PSF PER SOILS REP.
- EQUIVALENT FLUID PRESSURE FOR LEVEL BACKFILL = 40 PCF PER SOILS REPORT.
- ALLOWABLE LATERAL PASSIVE PRESSURE = 250 PSF PER SOILS REPORT.
- GROUT STRENGTH = 2000 PSI @ 28 DAYS & REINFORCING STEEL: GRADE 60.
- EARTH COEFFICIENT OF FRICTION = 0.30.
- 2000 PSI MASONRY COMPRESSION STRENGTH - SPECIAL INSPECTION REQUIRED.



WALL "A"

'HT'	'D'	'E'	'F' DOWEL	'G' BAR	'K'
2'-0"	2'-6"	6"	#4@32" O/C 8'-13"	#4@18" O/C 6'-1"	N/A
2'-8"	2'-6"	6"	#4@32" O/C 8'-14"	#4@18" O/C 6'-1"	N/A
3'-4"	2'-9"	6"	#4@18" O/C 8'-14"	#4@18" O/C 6'-1"	N/A
4'-0"	2'-9"	6"	#4@18" O/C 8'-15"	#4@18" O/C 6'-1"	4"
4'-8"	2'-9"	6"	#4@18" O/C 8'-15"	#4@18" O/C 6'-1"	8"
5'-4"	2'-9"	6"	#4@18" O/C 8'-15"	#4@18" O/C 6'-1"	1'-0"
6'-0"	2'-9"	6"	#4@18" O/C 8'-15"	#4@18" O/C 6'-1"	1'-2"
6'-8"	2'-9"	6"	#4@18" O/C 8'-15"	#4@18" O/C 6'-1"	1'-2"

ENGINEERING STAMP APPROVAL IS CONDITIONAL: REQUIRING USE OF ORCO MANUFACTURED CMU ON ALL ORCO WALL SYSTEM DESIGNS.

CITY OF HERMOSA BEACH
PARKING LOT D
HERMOSA BEACH, CALIFORNIA

Professional Engineer Seal for Daniel Verdugo Zendeja, No. 83660, Exp. 05/31/2023, State of California.

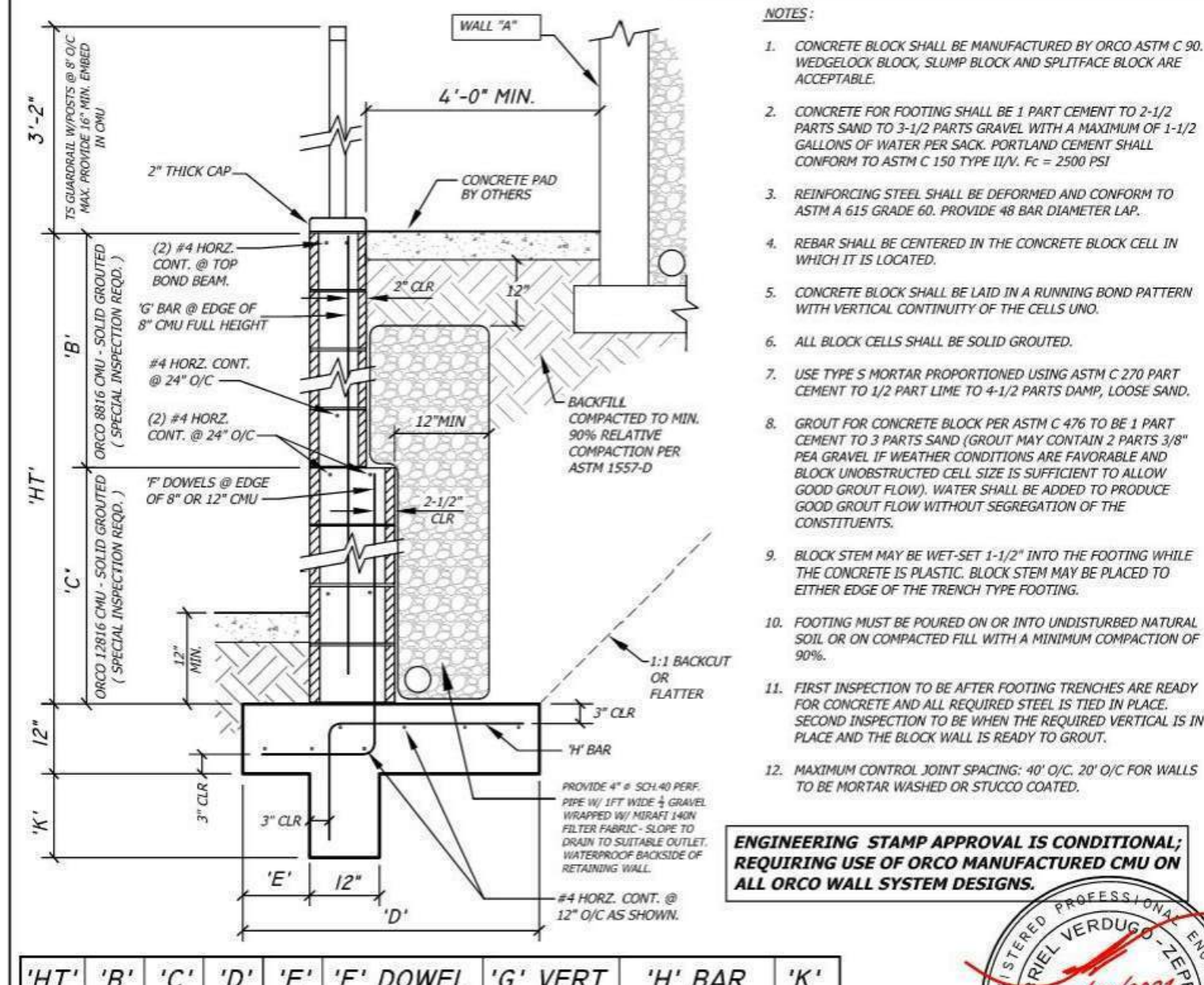
DETAIL 1:
NOT TO SCALE

ORCO 2'-0" TO 6'-8" HIGH RETAINING WALL W/ 36" GUARDRAIL FOR 110 MPH 3 SEC. GUST @ EXP C

SPECIAL INSPECTION NOTE: PROVIDE LEVEL 2 SPECIAL INSPECTION PER TMS 602-16 TABLES 3 AND 4 OF THE MASONRY STEM.

DESIGN CRITERIA PER 2019 CBC:

- ALLOWABLE SOIL BEARING PRESSURE FOR FOOTINGS = 2000 PSF PER SOILS REP.
- EQUIVALENT FLUID PRESSURE FOR LEVEL BACKFILL = 40 PCF PER SOILS REPORT.
- ALLOWABLE LATERAL PASSIVE PRESSURE = 250 PSF PER SOILS REPORT.
- GROUT STRENGTH = 2000 PSI @ 28 DAYS & REINFORCING STEEL: GRADE 60.
- EARTH COEFFICIENT OF FRICTION = 0.30.
- 2000 PSI MASONRY COMPRESSION STRENGTH - SPECIAL INSPECTION REQUIRED.



WALL "B"

'HT'	'B'	'C'	'D'	'E'	'F' DOWEL	'G' VERT	'H' BAR	'K'
2'-0"	2'-0"	N/A	2'-6"	6"	#4@32" O/C 8'-13"	N/A	#4@32" O/C 6'-1"	N/A
2'-8"	2'-8"	N/A	2'-6"	6"	#4@32" O/C 8'-14"	N/A	#4@32" O/C 6'-1"	N/A
3'-4"	3'-4"	N/A	2'-9"	6"	#4@18" O/C 8'-14"	N/A	#4@18" O/C 6'-1"	N/A
4'-0"	4'-0"	N/A	3'-0"	6"	#4@18" O/C 8'-15"	N/A	#4@18" O/C 6'-1"	4"
4'-8"	4'-8"	N/A	3'-3"	9"	#4@18" O/C 8'-15"	N/A	#4@18" O/C 6'-1"	8"
5'-4"	3'-4"	2'-0"	3'-6"	9"	#4@18" O/C 8'-15"	#4@18" O/C 22"	#4@18" O/C 6'-1"	1'-0"
6'-0"	3'-4"	2'-8"	4'-0"	1'-0"	#4@18" O/C 8'-15"	#4@18" O/C 20"	#4@18" O/C 6'-1"	1'-2"
6'-8"	4'-0"	2'-8"	5'-3"	1'-0"	#4@18" O/C 8'-15"	#4@18" O/C 20"	#4@18" O/C 6'-1"	1'-2"

ENGINEERING STAMP APPROVAL IS CONDITIONAL: REQUIRING USE OF ORCO MANUFACTURED CMU ON ALL ORCO WALL SYSTEM DESIGNS.

CITY OF HERMOSA BEACH
PARKING LOT D
HERMOSA BEACH, CALIFORNIA

Professional Engineer Seal for Daniel Verdugo Zendeja, No. 83660, Exp. 05/31/2023, State of California.

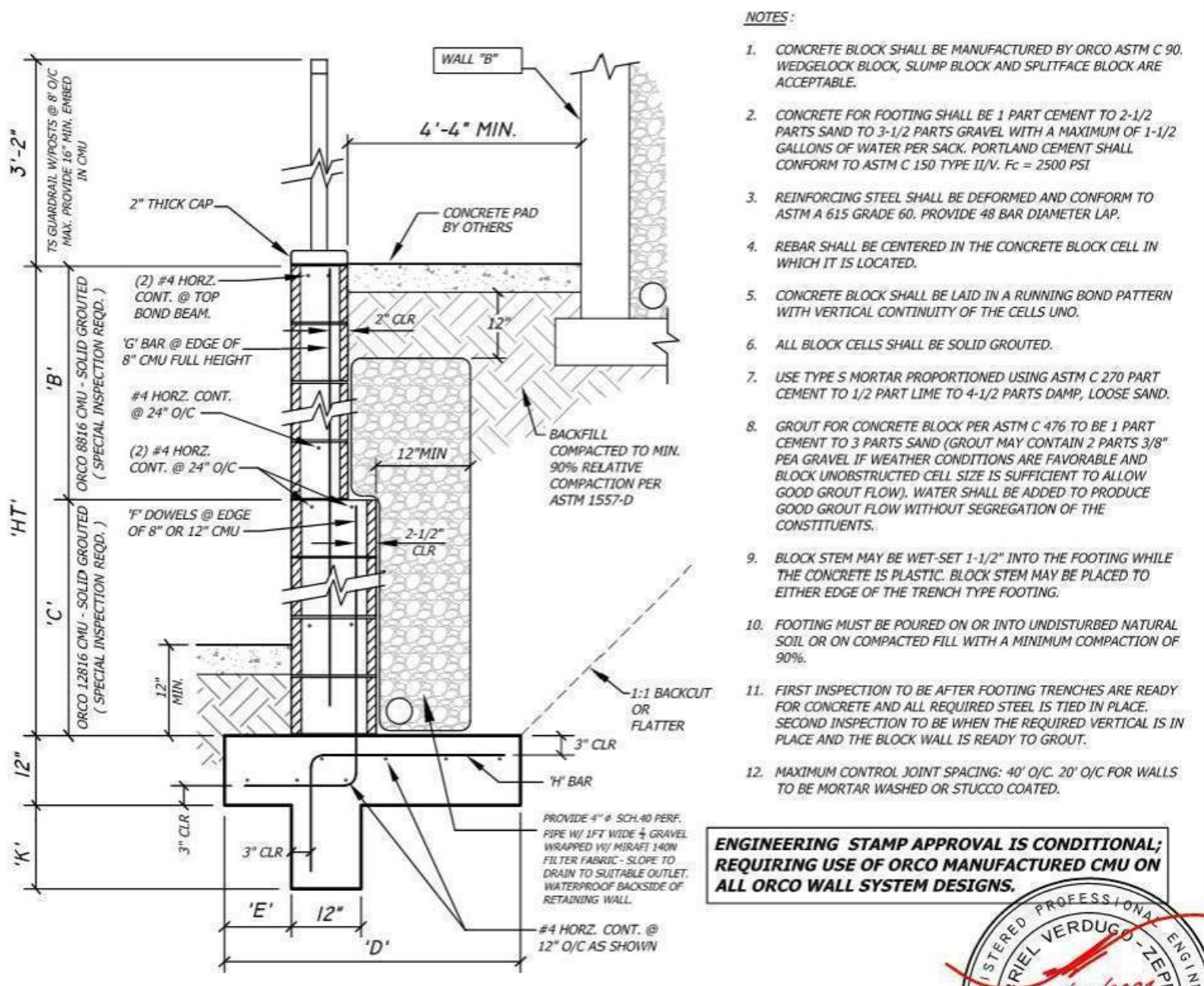
DETAIL 2:
NOT TO SCALE

ORCO 2'-0" TO 5'-4" HIGH RETAINING WALL W/ 36" GUARDRAIL FOR 110 MPH 3 SEC. GUST @ EXP C

SPECIAL INSPECTION NOTE: PROVIDE LEVEL 2 SPECIAL INSPECTION PER TMS 602-16 TABLES 3 AND 4 OF THE MASONRY STEM.

DESIGN CRITERIA PER 2019 CBC:

- ALLOWABLE SOIL BEARING PRESSURE FOR FOOTINGS = 2000 PSF PER SOILS REP.
- EQUIVALENT FLUID PRESSURE FOR LEVEL BACKFILL = 40 PCF PER SOILS REPORT.
- ALLOWABLE LATERAL PASSIVE PRESSURE = 250 PSF PER SOILS REPORT.
- GROUT STRENGTH = 2000 PSI @ 28 DAYS & REINFORCING STEEL: GRADE 60.
- EARTH COEFFICIENT OF FRICTION = 0.30.
- 2000 PSI MASONRY COMPRESSION STRENGTH - SPECIAL INSPECTION REQUIRED.



WALL "C"

'HT'	'B'	'C'	'D'	'E'	'F' DOWEL	'G' VERT	'H' BAR	'K'
2'-0"	2'-0"	N/A	2'-6"	6"	#4@32" O/C 8'-13"	N/A	#4@32" O/C 6'-1"	N/A
2'-8"	2'-8"	N/A	2'-6"	6"	#4@32" O/C 8'-14"	N/A	#4@32" O/C 6'-1"	N/A
3'-4"	3'-4"	N/A	2'-9"	6"	#4@18" O/C 8'-14"	N/A	#4@18" O/C 6'-1"	4"
4'-0"	4'-0"	N/A	3'-0"	6"	#4@18" O/C 8'-15"	N/A	#4@18" O/C 6'-1"	8"
4'-8"	4'-8"	N/A	3'-3"	9"	#4@18" O/C 8'-15"	N/A	#4@18" O/C 6'-1"	8"
4'-8"	4'-8"	N/A	3'-3"	9"	#4@18" O/C 8'-15"	N/A	#4@18" O/C 6'-1"	1'-1"
5'-4"	3'-4"	2'-0"	3'-9"	9"	#4@18" O/C 8'-15"	#4@18" O/C 23"	#4@18" O/C 6'-1"	1'-5"

ENGINEERING STAMP APPROVAL IS CONDITIONAL: REQUIRING USE OF ORCO MANUFACTURED CMU ON ALL ORCO WALL SYSTEM DESIGNS.

CITY OF HERMOSA BEACH
PARKING LOT D
HERMOSA BEACH, CALIFORNIA

Professional Engineer Seal for Daniel Verdugo Zendeja, No. 83660, Exp. 05/31/2023, State of California.

DETAIL 3:
NOT TO SCALE

NOTICE TO CONTRACTOR

- SEE SHEET 11 FOR WALL FOOTING STEP DETAIL.
- WALL DESIGN CALCULATIONS AND PLAN DETAILS ARE PROVIDED SPECIFICALLY ONLY FOR ORCO MANUFACTURED CONCRETE MASONRY UNITS (CMU) AND MORTAR. USE OF OTHER PRODUCTS FOR CONSTRUCTION WILL VOID ALL WALL CALCULATIONS, DESIGN DETAILS AND ENGINEERING STAMP PROVIDED ON THE PLAN.
- ANY SUBSTITUTION OF ORCO MANUFACTURED CONCRETE MASONRY UNITS (CMU) AND MORTAR PRODUCTS WILL REQUIRE THE CONTRACTOR TO SUBMIT SEPARATE WALL DETAILS AND CALCULATIONS STAMPED BY AN ENGINEER FOR APPROVAL BY THE CITY PRIOR TO ACTUAL CONSTRUCTION. REFER TO THE PROJECT SPECIFICATIONS FOR ORCO BLOCK CONTACT INFORMATION.
- ORCO BLOCK COLOR: WHEAT, TEXTURE: BURNISHED. ALL EXPOSED WALL MATERIALS SHALL RECEIVE ANTI-GRAFFITI COATING.
- CONTRACTOR SHALL PROVIDE SAMPLE WITH COLOR AND TEXTURE NOTED FOR REVIEW AND APPROVAL PRIOR TO PURCHASE AND CONSTRUCTION.

BENCH MARK:
No. QY11328, ELEV. 15.323 FEET
DATE ADJ. 2005, QUAD. HAWTHORNE/TORRANCE

Underground Service Alert
DigAlert
CALL: TOLL FREE 811
TWO WORKING DAYS BEFORE YOU DIG
IMPORTANT NOTICE
SECTION 4212/4217 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A PERMIT TO EXCAVATE WILL BE VALID.

REVISIONS		
No.	DESCRIPTION	DATE

PLANS PREPARED BY:
CITY OF HERMOSA BEACH
PUBLIC WORKS DEPARTMENT
RECOMMENDED FOR PERMIT ISSUANCE:
J. Okami
10/03/2024
DATE

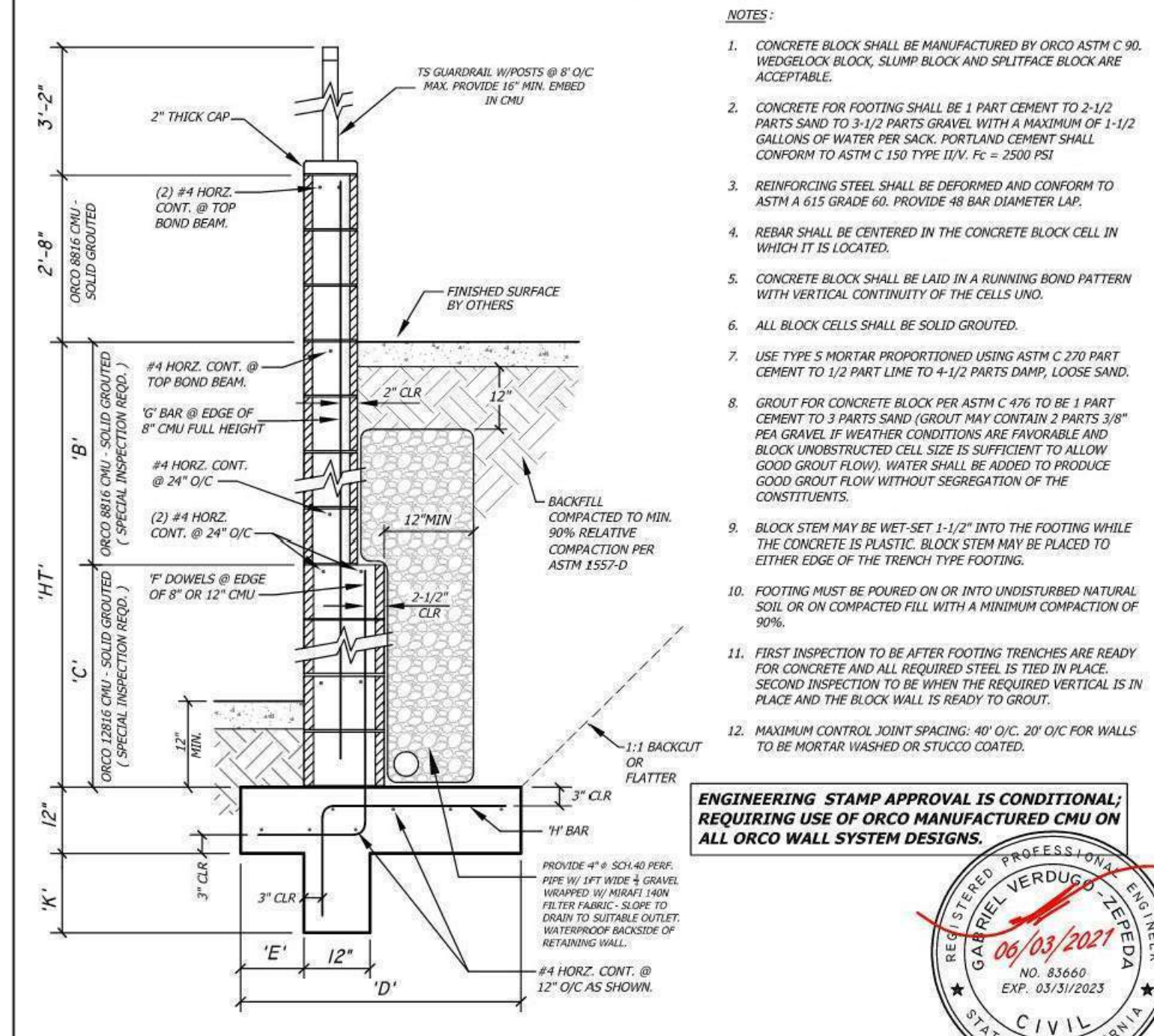
FILE NUMBER: XXXX-CIVIL
PARKING LOT "D"
1331 MANHATTAN AVENUE
STRUCTURAL DETAILS
C-9
SHT. 9 OF 31

ORCO 6'-0" TO 8'-0" HIGH RETAINING WALL W/ 2'-8" CMU AND 36" RAIL FOR 110 MPH 3 SEC. GUST @ EXP C

SPECIAL INSPECTION NOTE:
 PROVIDE LEVEL 2 SPECIAL INSPECTION PER TMS 602-16 TABLES 3 AND 4 OF THE MASONRY STEM.

DESIGN CRITERIA PER 2019 CBC:

- ALLOWABLE SOIL BEARING PRESSURE FOR FOOTINGS = 2000 PSF PER SOILS REP.
- EQUIVALENT FLUID PRESSURE FOR LEVEL BACKFILL = 40 PCF PER SOILS REPORT.
- ALLOWABLE LATERAL PASSIVE PRESSURE = 250 PCF PER SOILS REPORT.
- GROUT STRENGTH = 2000 PSI @ 28 DAYS & REINFORCING STEEL : GRADE 60.
- EARTH COEFFICIENT OF FRICTION = 0.30.
- 2000 PSI MASONRY COMPRESSION STRENGTH - SPECIAL INSPECTION REQUIRED.



'HT'	'B'	'C'	'D'	'E'	'F' DOWEL	'G' VERT	'H' BAR	'K'
6'-0"	3'-4"	2'-8"	4'-9"	1'-3"	#4@8" O/C	#4@8" O/C	#4@8" O/C	1'-2"
6'-8"	4'-0"	2'-8"	5'-9"	1'-6"	#4@8" O/C	#4@8" O/C	#4@8" O/C	1'-4"
7'-4"	4'-0"	3'-4"	6'-6"	1'-9"	#4@8" O/C	#4@8" O/C	#4@8" O/C	1'-6"
8'-0"	4'-0"	4'-0"	7'-0"	2'-0"	#5@8" O/C	#5@8" O/C	#5@8" O/C	1'-10"

WALL "D"

CITY OF HERMOSA BEACH
 PARKING LOT D
 HERMOSA BEACH, CALIFORNIA

NOTE: DIMENSIONS ARE NOT TO SCALE.

DETAIL 4:
 NOT TO SCALE

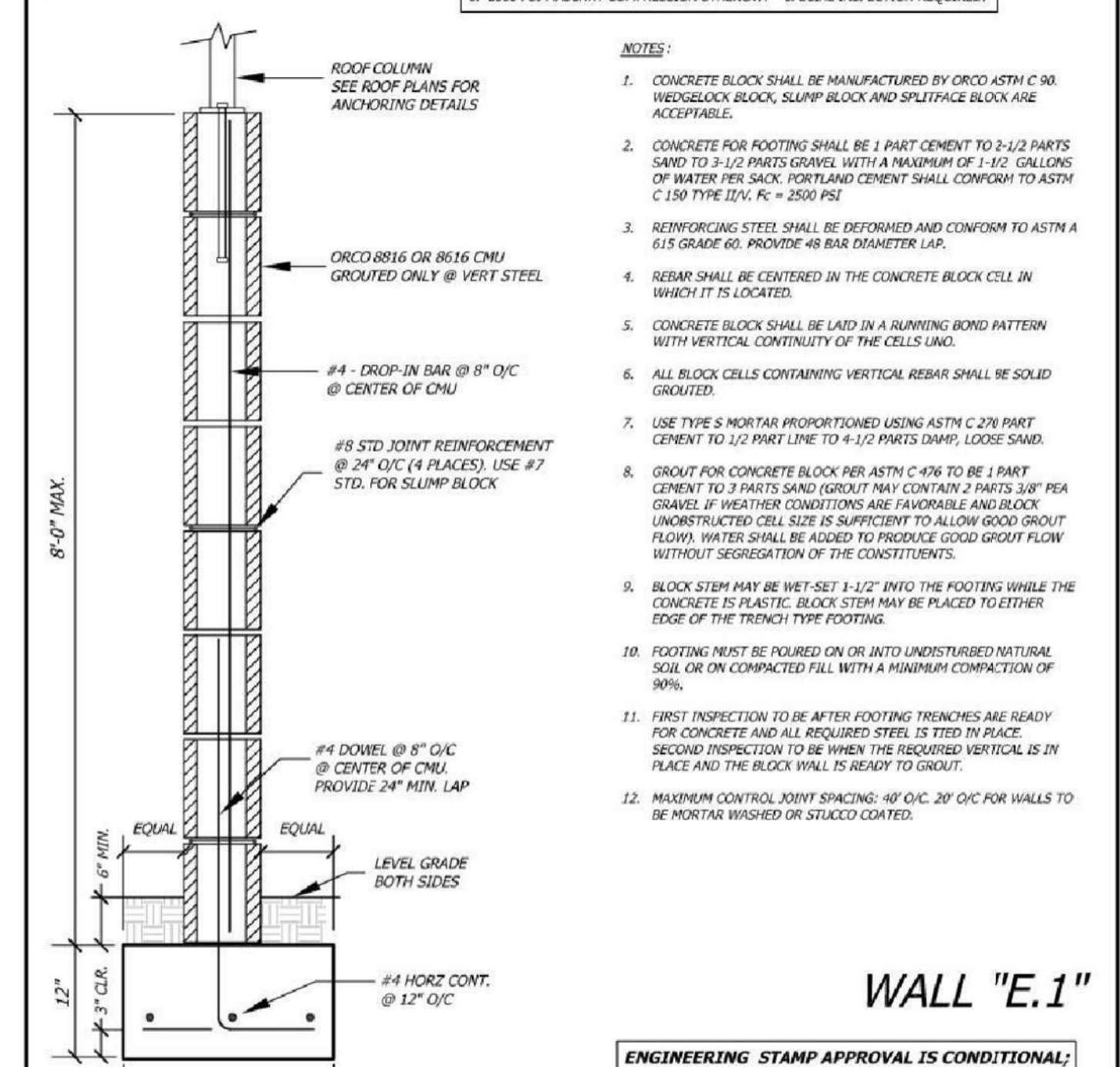
ORCO WALLS AT TRASH ENCLOSURE ROOF SUPPORTS FOR 110 MPH 3 SEC. GUST @ EXP C

REBAR NOTE:

- DO NOT RUN HORIZONTAL REINFORCEMENT THROUGH WALL, REBAR & CONSTRUCTION JOINTS.
- PROVIDE DOWEL & DROP-IN BAR ACCORDING TO DETAIL AT EACH SIDE OF CONTROL JOINTS, ENDS OF WALLS AND @ WALL HEIGHT CHANGES.

DESIGN CRITERIA PER 2019 CBC:

- ALLOWABLE SOIL BEARING PRESSURE FOR FOOTINGS = 2000 PSF PER SOILS REP.
- EQUIVALENT FLUID PRESSURE FOR LEVEL BACKFILL = 40 PCF PER SOILS REPORT.
- ALLOWABLE LATERAL PASSIVE PRESSURE = 250 PCF PER SOILS REPORT.
- GROUT STRENGTH = 2000 PSI @ 28 DAYS & REINFORCING STEEL : GRADE 60.
- EARTH COEFFICIENT OF FRICTION = 0.30.
- 2000 PSI MASONRY COMPRESSION STRENGTH - SPECIAL INSPECTION REQUIRED.



'HT'	'D'	'E'	'F' DOWEL	'G' BAR	'K'
2'-0"	2'-6"	6"	#4@8" O/C	#4@8" O/C	4"
2'-8"	2'-9"	6"	#4@8" O/C	#4@8" O/C	4"
3'-4"	3'-0"	6"	#4@8" O/C	#4@8" O/C	6"
4'-0"	3'-6"	6"	#4@8" O/C	#4@8" O/C	7"

WALL "E.1"

CITY OF HERMOSA BEACH
 PARKING LOT D
 HERMOSA BEACH, CALIFORNIA

NOTE: DIMENSIONS ARE NOT TO SCALE.

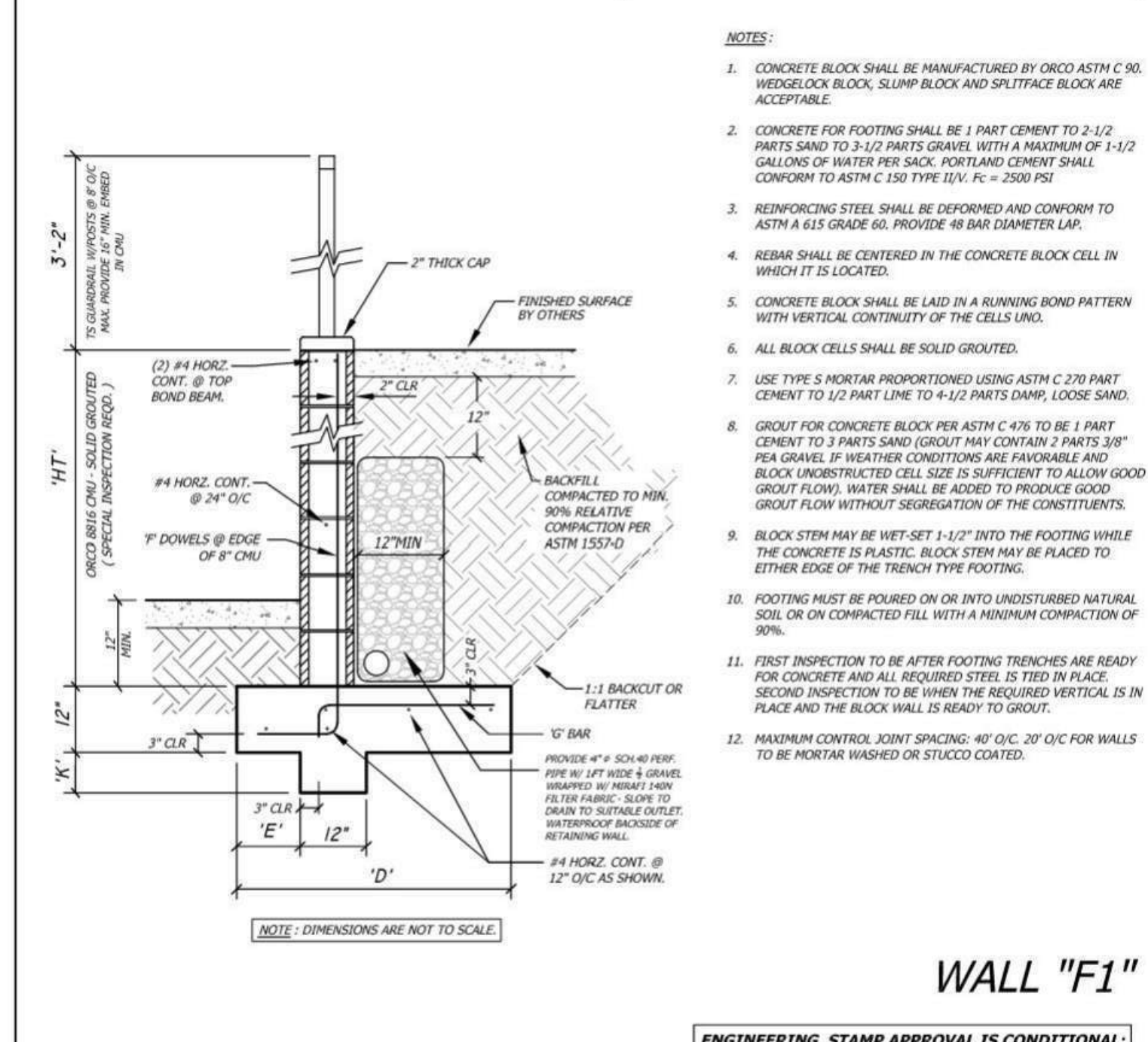
DETAIL 5:
 NOT TO SCALE

ORCO 2'-0" TO 4'-0" HIGH RETAINING WALL W/ 36" GUARDRAIL FOR 110 MPH 3 SEC. GUST @ EXP C

SPECIAL INSPECTION NOTE:
 PROVIDE LEVEL 2 SPECIAL INSPECTION PER TMS 602-16 TABLES 3 AND 4 OF THE MASONRY STEM.

DESIGN CRITERIA PER 2019 CBC:

- ALLOWABLE SOIL BEARING PRESSURE FOR FOOTINGS = 2000 PSF PER SOILS REP.
- EQUIVALENT FLUID PRESSURE FOR LEVEL BACKFILL = 40 PCF PER SOILS REPORT.
- ALLOWABLE LATERAL PASSIVE PRESSURE = 250 PCF PER SOILS REPORT.
- GROUT STRENGTH = 2000 PSI @ 28 DAYS & REINFORCING STEEL : GRADE 60.
- EARTH COEFFICIENT OF FRICTION = 0.30.
- 2000 PSI MASONRY COMPRESSION STRENGTH - SPECIAL INSPECTION REQUIRED.



'HT'	'D'	'E'	'F' DOWEL	'G' BAR	'K'
2'-0"	2'-6"	6"	#4@8" O/C	#4@8" O/C	4"
2'-8"	2'-9"	6"	#4@8" O/C	#4@8" O/C	4"
3'-4"	3'-0"	6"	#4@8" O/C	#4@8" O/C	6"
4'-0"	3'-6"	6"	#4@8" O/C	#4@8" O/C	7"

WALL "F.1"

CITY OF HERMOSA BEACH
 PARKING LOT D
 HERMOSA BEACH, CALIFORNIA

NOTE: DIMENSIONS ARE NOT TO SCALE.

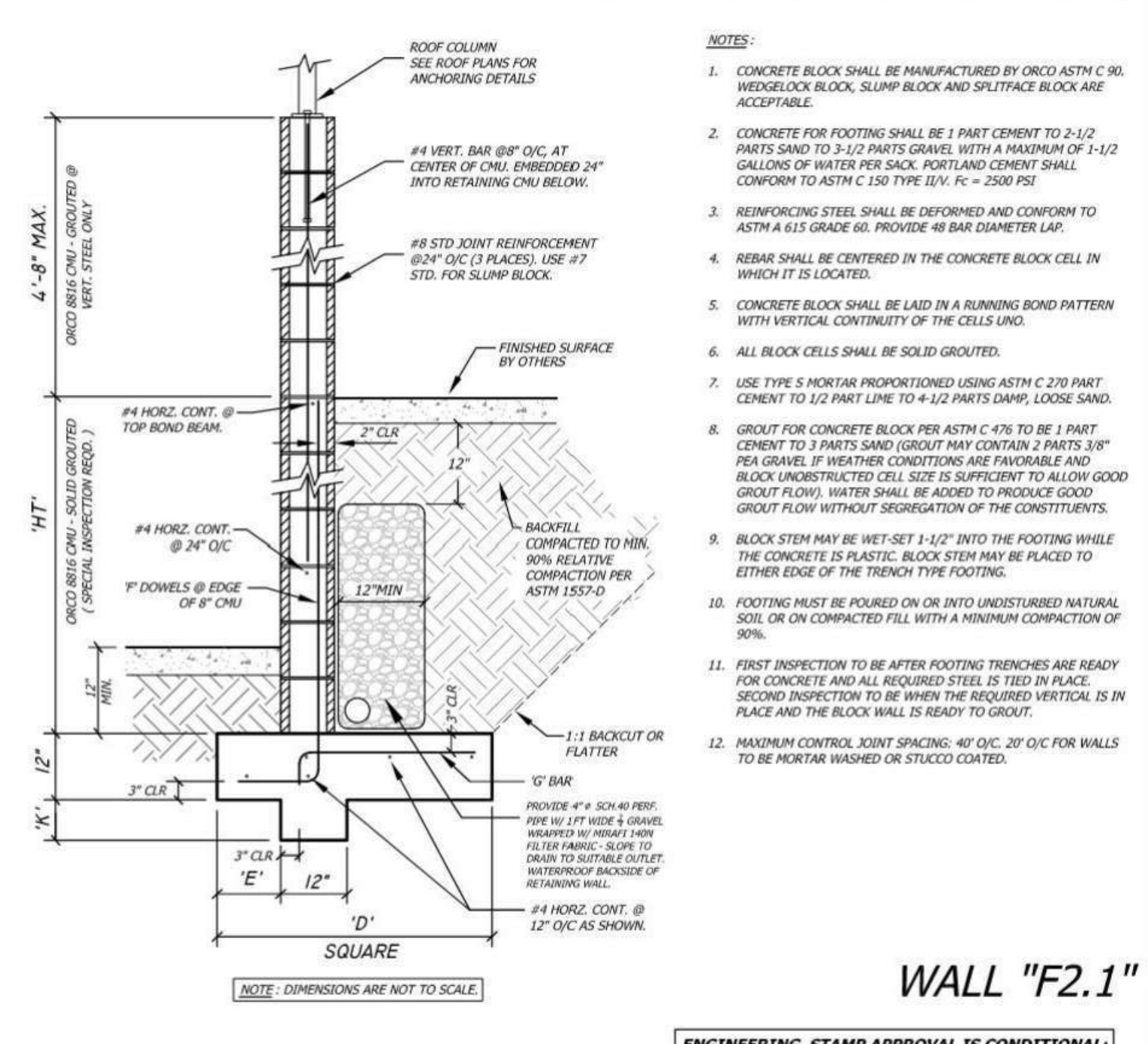
DETAIL 6:
 NOT TO SCALE

ORCO COMBO RETAINING WALL AT TRASH ENCLOSURE ROOF SUPPORT FOR 110 MPH 3 SEC. GUST @ EXP C

SPECIAL INSPECTION NOTE:
 PROVIDE LEVEL 2 SPECIAL INSPECTION PER TMS 602-16 TABLES 3 AND 4 OF THE MASONRY STEM.

DESIGN CRITERIA PER 2019 CBC:

- ALLOWABLE SOIL BEARING PRESSURE FOR FOOTINGS = 2000 PSF PER SOILS REP.
- EQUIVALENT FLUID PRESSURE FOR LEVEL BACKFILL = 40 PCF PER SOILS REPORT.
- ALLOWABLE LATERAL PASSIVE PRESSURE = 250 PCF PER SOILS REPORT.
- GROUT STRENGTH = 2000 PSI @ 28 DAYS & REINFORCING STEEL : GRADE 60.
- EARTH COEFFICIENT OF FRICTION = 0.30.
- 2000 PSI MASONRY COMPRESSION STRENGTH - SPECIAL INSPECTION REQUIRED.



'HT'	'D'	'E'	'F' DOWEL	'G' BAR	'K'
3'-4"	3'-6"	1'-0"	#4@8" O/C	#4@8" O/C	5"
4'-0"	4'-0"	1'-0"	#4@8" O/C	#4@8" O/C	6"

WALL "F2.1"

CITY OF HERMOSA BEACH
 PARKING LOT D
 HERMOSA BEACH, CALIFORNIA

NOTE: DIMENSIONS ARE NOT TO SCALE.

DETAIL 7:
 NOT TO SCALE

NOTICE TO CONTRACTOR

- SEE SHEET 9 FOR WALL INSPECTION REQUIREMENTS.
- SEE SHEET 11 FOR WALL FOOTING STEP DETAIL.
- WALL DESIGN CALCULATIONS AND PLAN DETAILS ARE PROVIDED SPECIFICALLY ONLY FOR ORCO MANUFACTURED CONCRETE MASONRY UNITS (CMU) AND MORTAR. USE OF OTHER PRODUCTS FOR CONSTRUCTION WILL VOID ALL WALL CALCULATIONS, DESIGN DETAILS AND ENGINEERING STAMP PROVIDED ON THE PLAN.
- ANY SUBSTITUTION OF ORCO MANUFACTURED CONCRETE MASONRY UNITS (CMU) AND MORTAR PRODUCTS WILL REQUIRE THE CONTRACTOR TO SUBMIT SEPARATE WALL DETAILS AND CALCULATIONS STAMPED BY AN ENGINEER FOR APPROVAL BY THE CITY PRIOR TO ACTUAL CONSTRUCTION. REFER TO THE PROJECT SPECIFICATIONS FOR ORCO BLOCK CONTACT INFORMATION.
- ORCO BLOCK COLOR: WHEAT, TEXTURE: BURNISHED. ALL EXPOSED WALL MATERIALS SHALL RECEIVE ANTI-GRAFFITI COATING.
- CONTRACTOR SHALL PROVIDE SAMPLE WITH COLOR AND TEXTURE NOTED FOR REVIEW AND APPROVAL PRIOR TO PURCHASE AND CONSTRUCTION.

BENCH MARK:
 No. QY11328, ELEV. 15.323 FEET
 DATE ADJ. 2005, QUAD. HAWTHORNE/TORRANCE

Underground Service Alert
 DigAlert
 CALL: TOLL FREE 811
 TWO WORKING DAYS BEFORE YOU DIG

IMPORTANT NOTICE
 SECTION 4212/4217 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A PERMIT TO EXCAVATE WILL BE VALID.

REVISIONS		
No.	DESCRIPTION	DATE

PLANS PREPARED BY:
 CITY OF HERMOSA BEACH
 PUBLIC WORKS DEPARTMENT

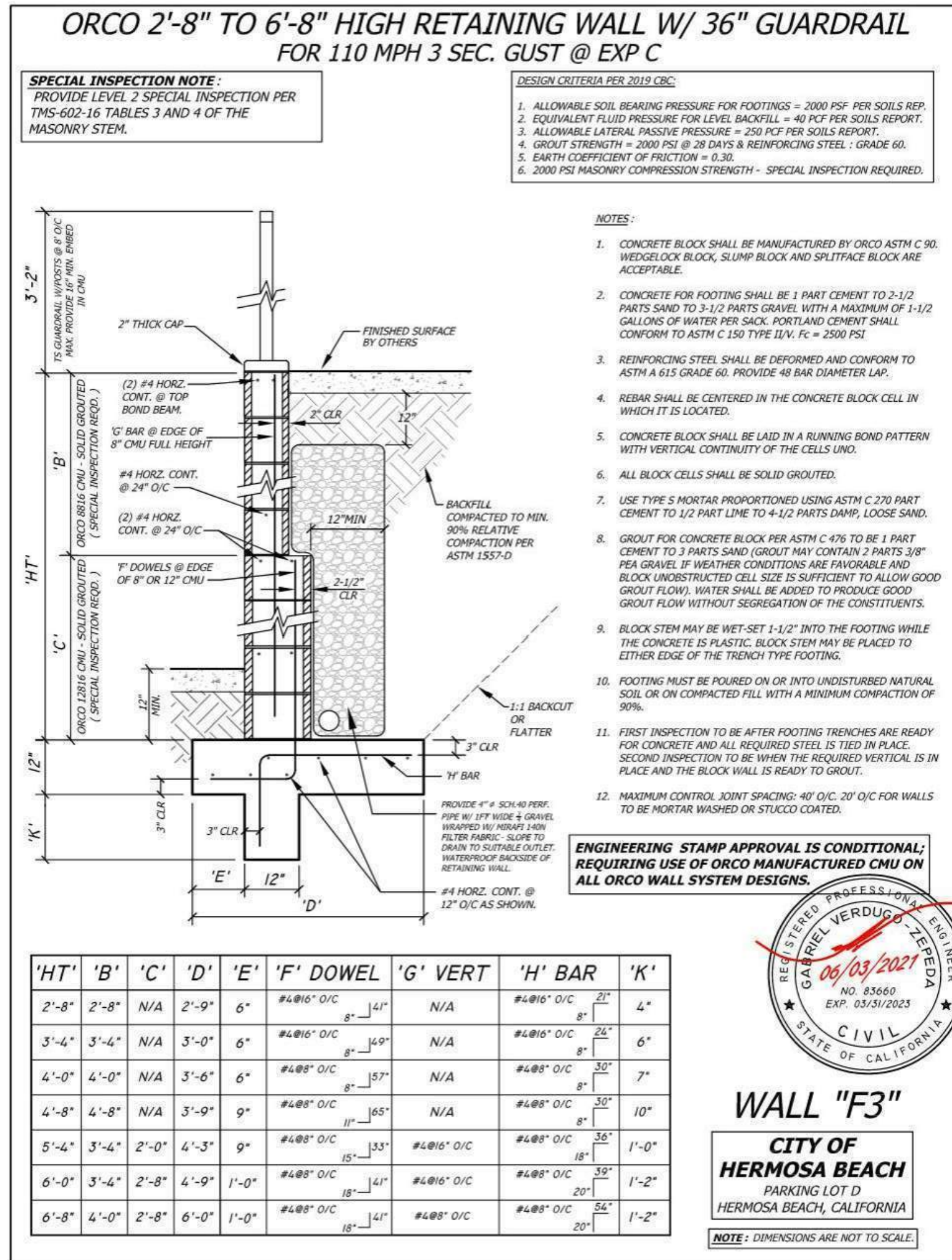
RECOMMENDED FOR PERMIT ISSUANCE:
 J. Okami
 10/03/2024
 DATE

CITY OF HERMOSA BEACH
 PUBLIC WORKS DEPARTMENT

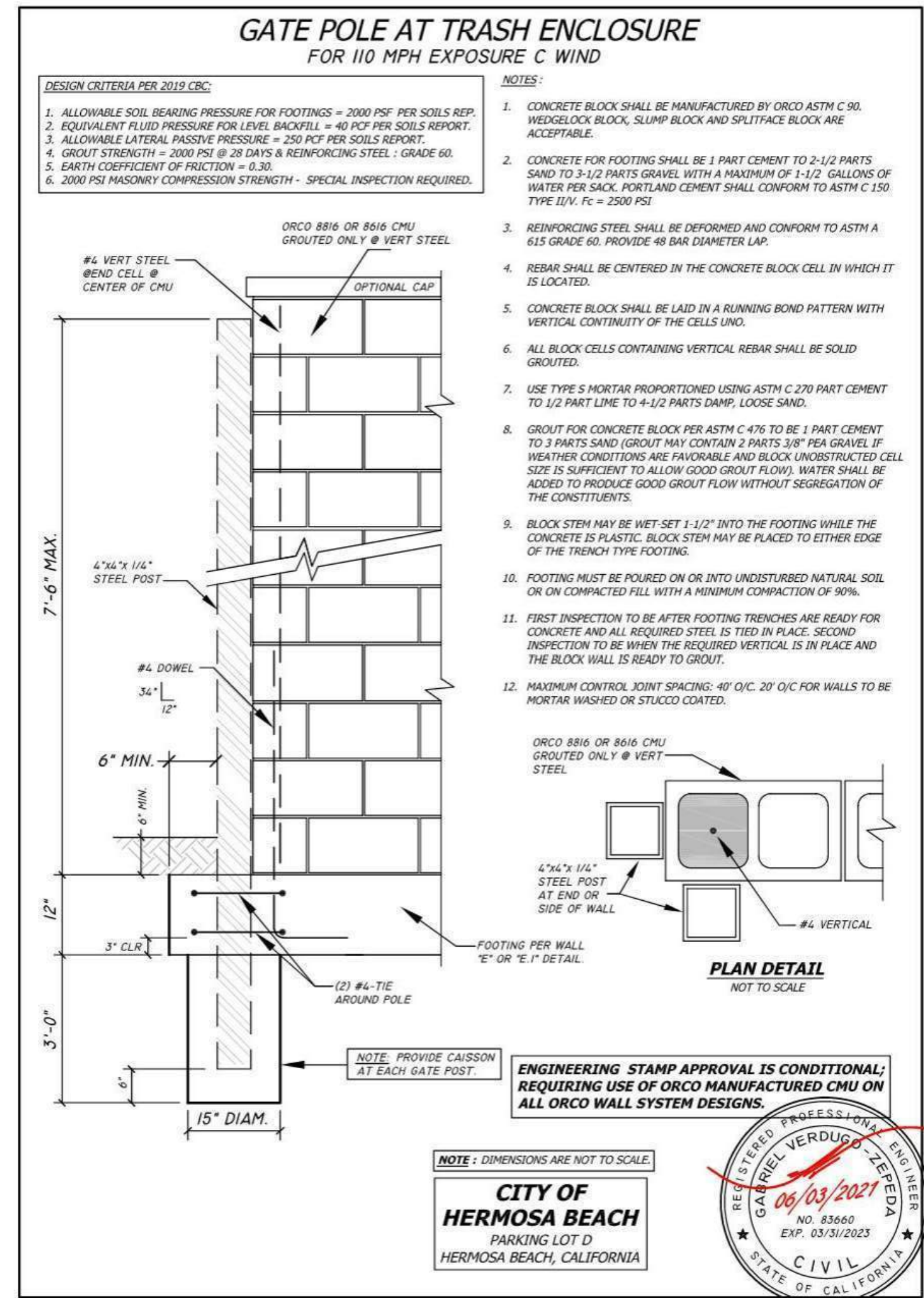
FILE NUMBER
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PARKING LOT "D"
 1331 MANHATTAN AVENUE
 STRUCTURAL DETAILS

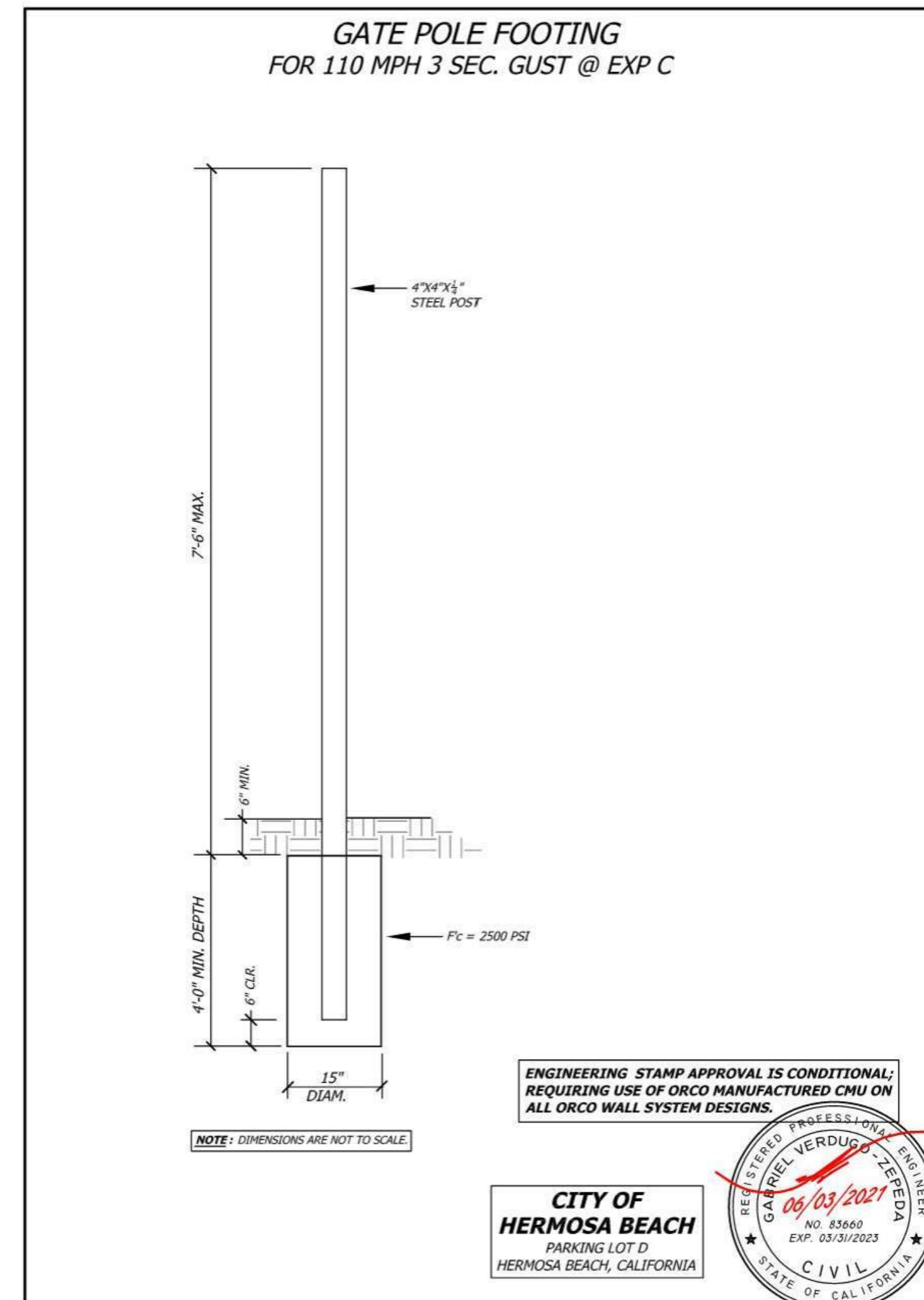
C-10
 SHT. 10 OF 31



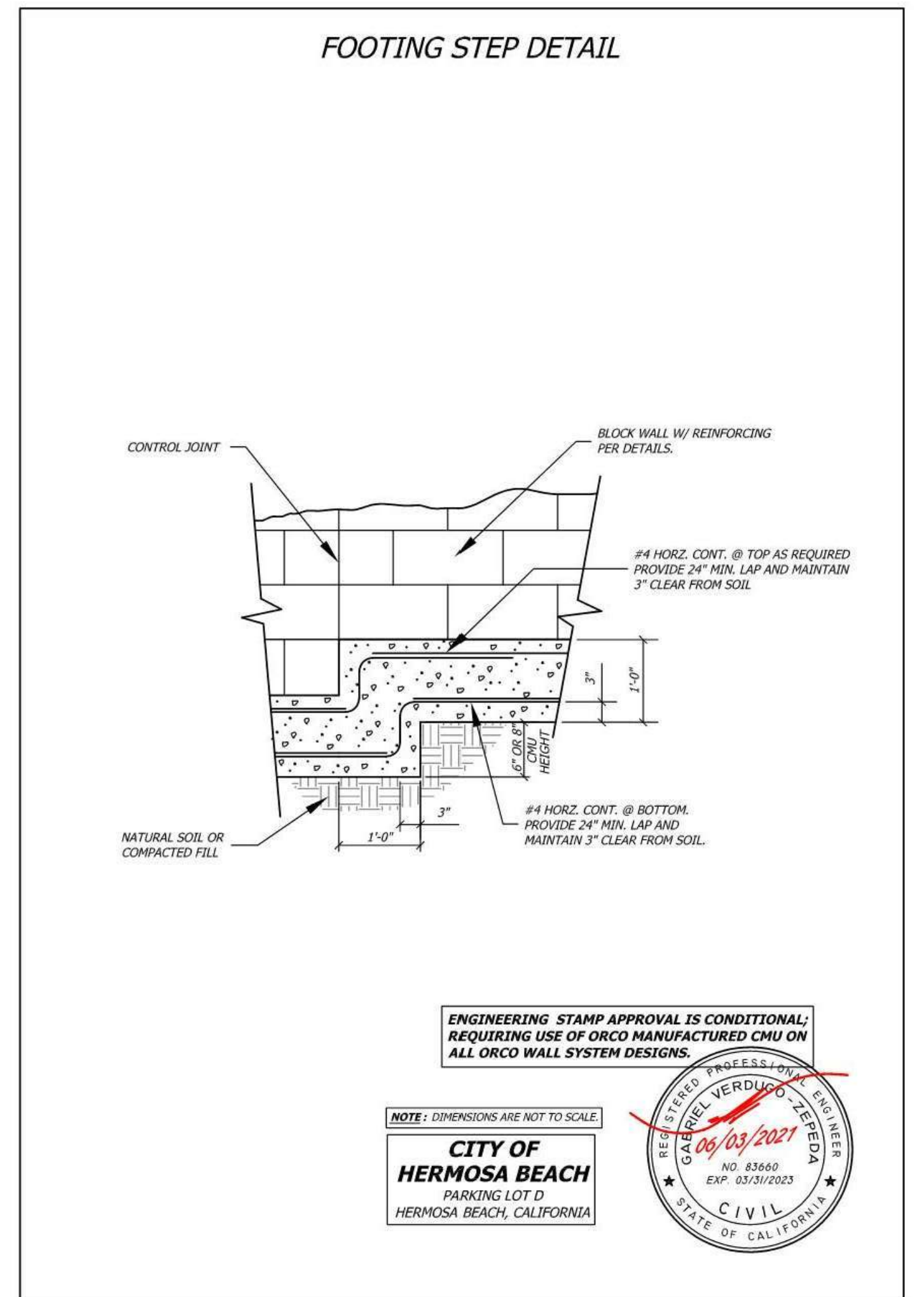
DETAIL 8:
NOT TO SCALE



DETAIL 9:
NOT TO SCALE



DETAIL 10:
NOT TO SCALE



NOTICE TO CONTRACTOR

- SEE SHEET 9 FOR WALL INSPECTION REQUIREMENTS.
- SEE SHEET 11 FOR WALL FOOTING STEP DETAIL.
- WALL DESIGN CALCULATIONS AND PLAN DETAILS ARE PROVIDED SPECIFICALLY ONLY FOR ORCO MANUFACTURED CONCRETE MASONRY UNITS (CMU) AND MORTAR. USE OF OTHER PRODUCTS FOR CONSTRUCTION WILL VOID ALL WALL CALCULATIONS, DESIGN DETAILS AND ENGINEERING STAMP PROVIDED ON THE PLAN.
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BENCH MARK:
No. QY11328, ELEV. 15.323 FEET
DATE ADJ. 2005, QUAD. HAWTHORNE/TORRANCE

Underground Service Alert
DigAlert
CALL: TOLL FREE 811
TWO WORKING DAYS BEFORE YOU DIG
IMPORTANT NOTICE
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REVISIONS		
No.	DESCRIPTION	DATE

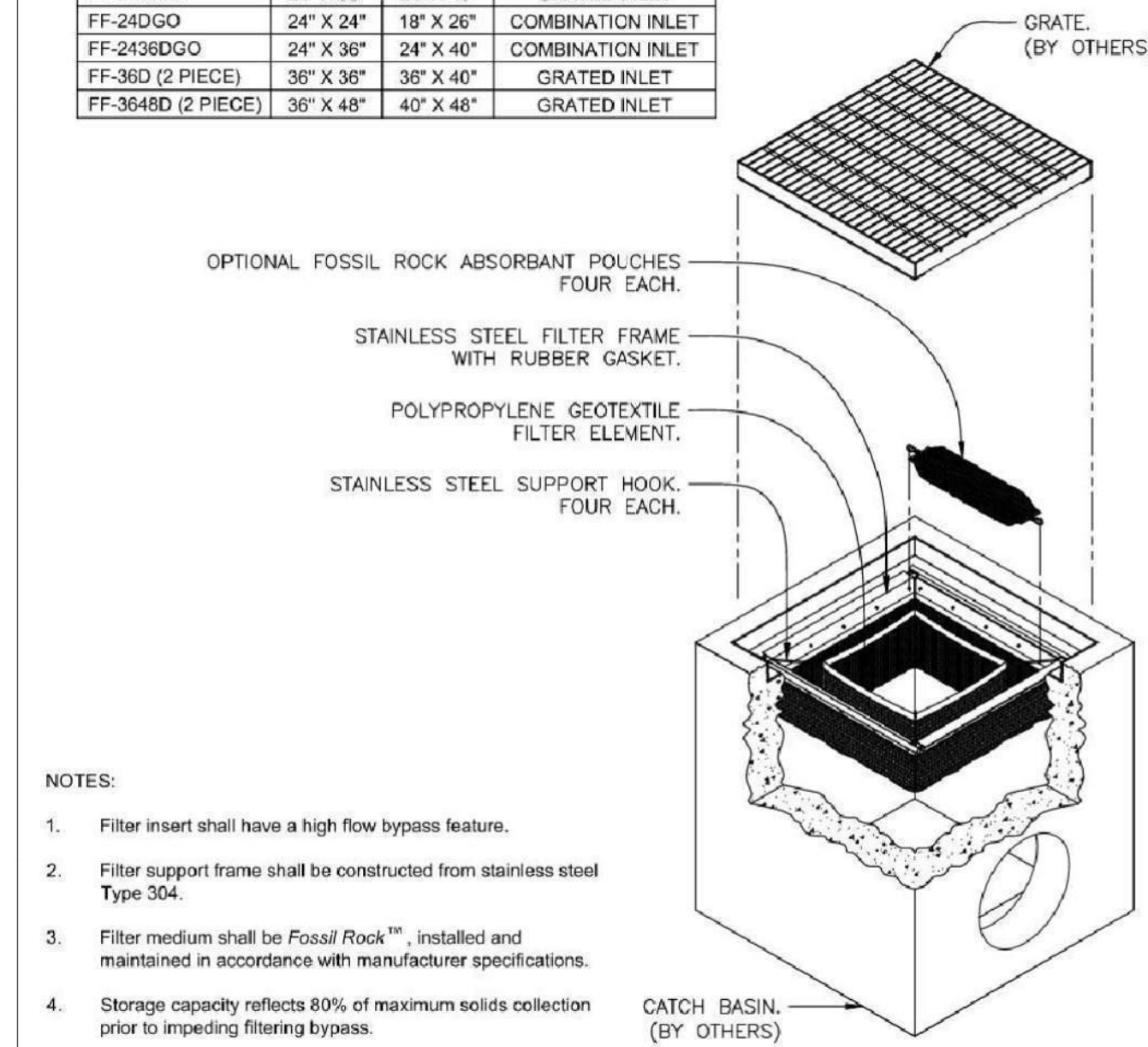
PLANS PREPARED BY:
J. Okami

CITY OF HERMOSA BEACH
PUBLIC WORKS DEPARTMENT
RECOMMENDED FOR PERMIT ISSUANCE:
10/03/2024
DATE

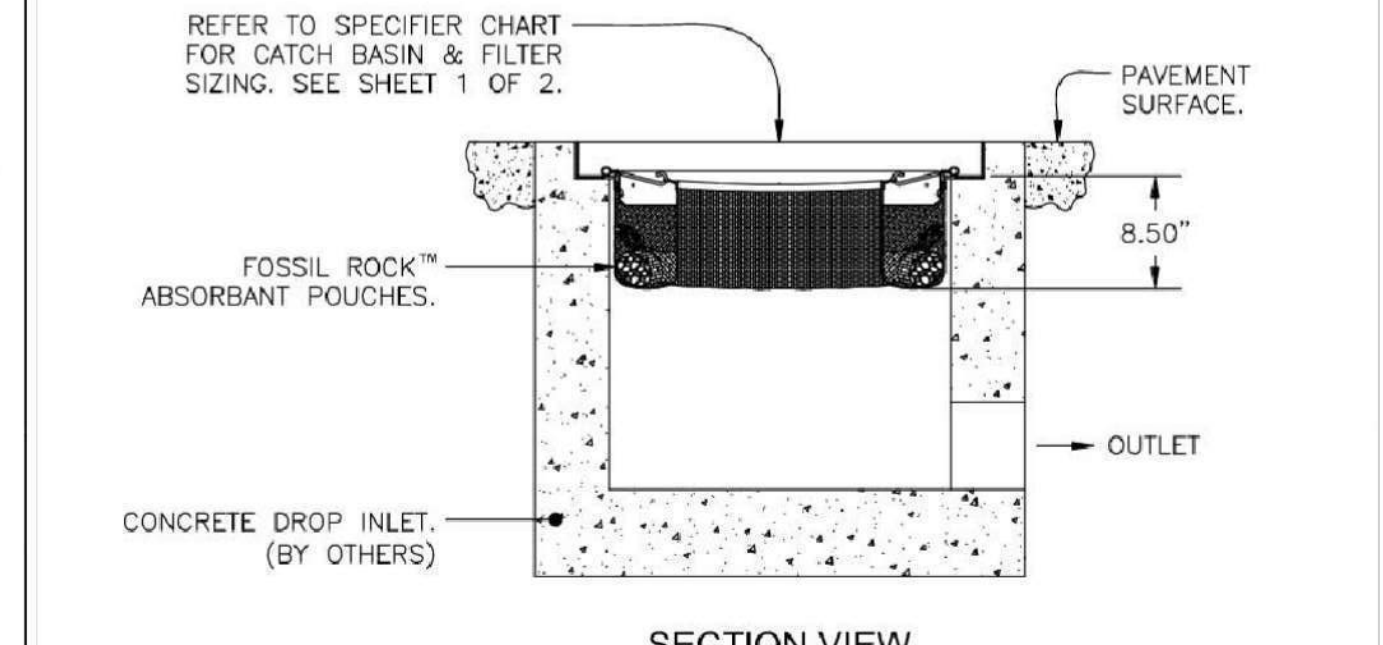
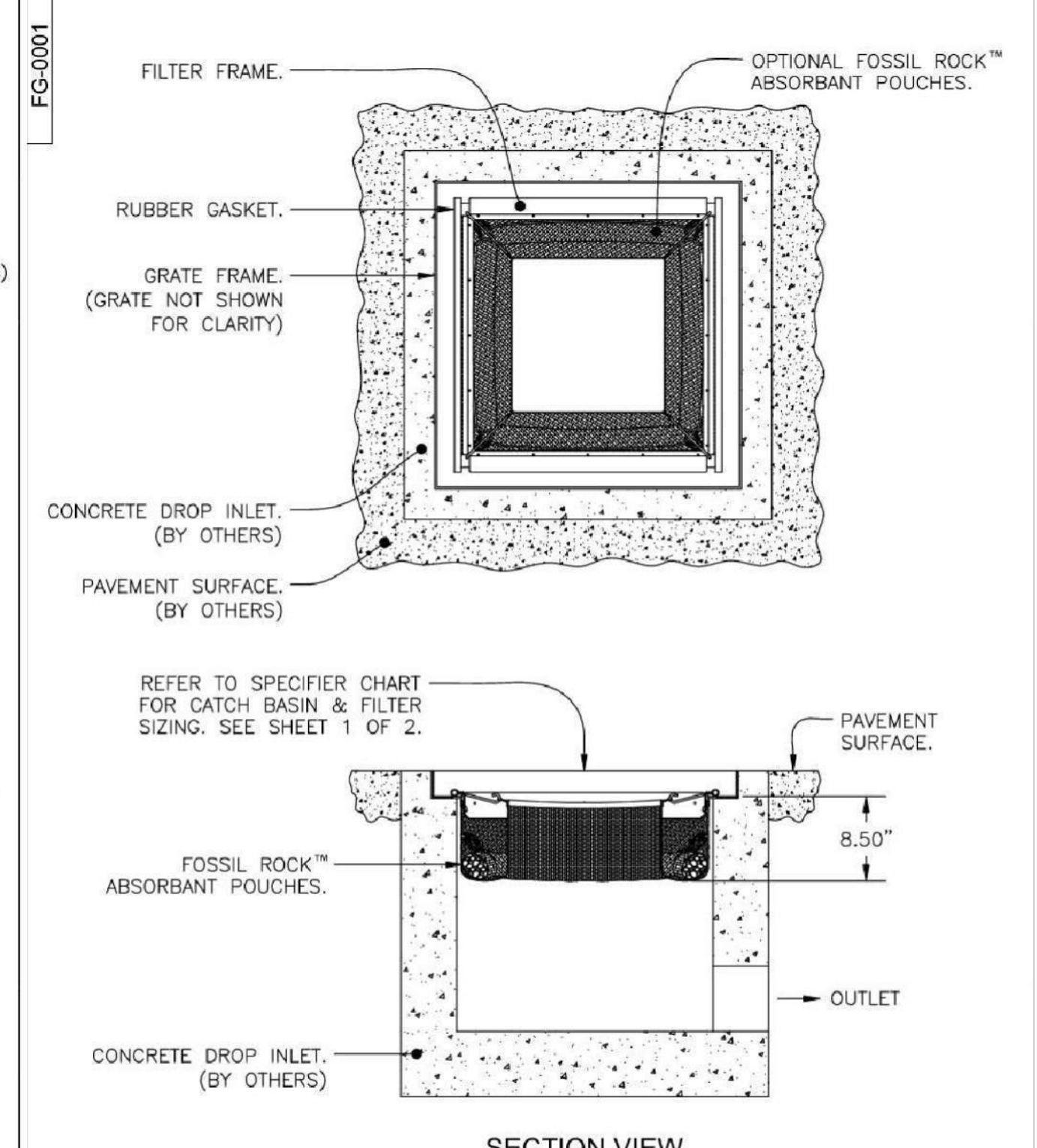
CITY OF HERMOSA BEACH
PUBLIC IMPROVEMENT PLANS
PARKING LOT "D"
1331 MANHATTAN AVENUE
STRUCTURAL DETAILS

FILE NUMBER
XXXXX-CIVIL
C-11
SHT. 11 OF 31

SPECIFIER CHART			
MODEL	INLET ID	GRATE OD	COMMENTS
FF-12D	12" X 12"	15" X 15"	GRATED INLET
FF-16D	16" X 16"	18" X 18"	GRATED INLET
FF-18D	18" X 18"	20" X 20"	GRATED INLET
FF-1836SD	18" X 36"	18" X 40"	GRATED INLET
FF-1836DGO	18" X 36"	18" X 40"	COMBINATION INLET
FF-24D	24" X 24"	26" X 26"	GRATED INLET
FF-2436SD	24" X 36"	24" X 40"	GRATED INLET
FF-24DGO	24" X 24"	18" X 26"	COMBINATION INLET
FF-2436DGO	24" X 36"	24" X 40"	COMBINATION INLET
FF-36D (2 PIECE)	36" X 36"	36" X 40"	GRATED INLET
FF-3648D (2 PIECE)	36" X 48"	40" X 48"	GRATED INLET



- NOTES:
- Filter insert shall have a high flow bypass feature.
 - Filter support frame shall be constructed from stainless steel Type 304.
 - Filter medium shall be Fossil Rock™, installed and maintained in accordance with manufacturer specifications.
 - Storage capacity reflects 80% of maximum solids collection prior to impeding filtering bypass.



FloGard®
Catch Basin Insert Filter
Grated Inlet Style

Oldcastle Infrastructure™
A CRH COMPANY

Ph: 602.578.8819 | www.oldcastleinfrastructure.com/stormwater

DRAWING NO. FG-0001 | REV. 1 | DATE 12/26/19 | SHEET 1 OF 2

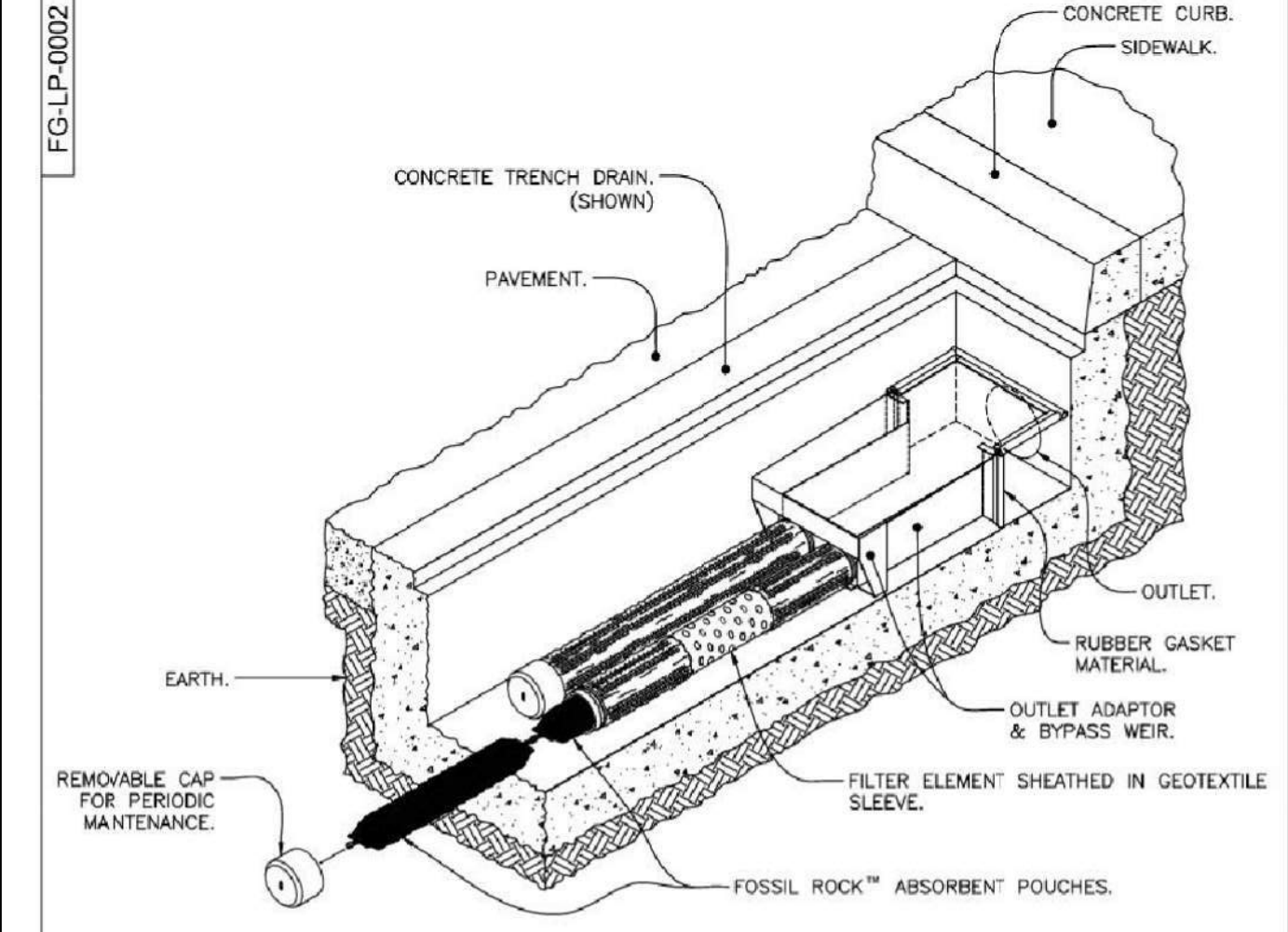
FloGard®
Catch Basin Insert Filter
Grated Inlet Style

Oldcastle Infrastructure™
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Ph: 602.578.8819 | www.oldcastleinfrastructure.com/stormwater

DRAWING NO. FG-0001 | REV. 1 | DATE 12/26/19 | SHEET 2 OF 2

47 AND 48
GRATED INLET CATCH BASIN FILTER FRAME WITH FILTER DETAILS
NOT TO SCALE



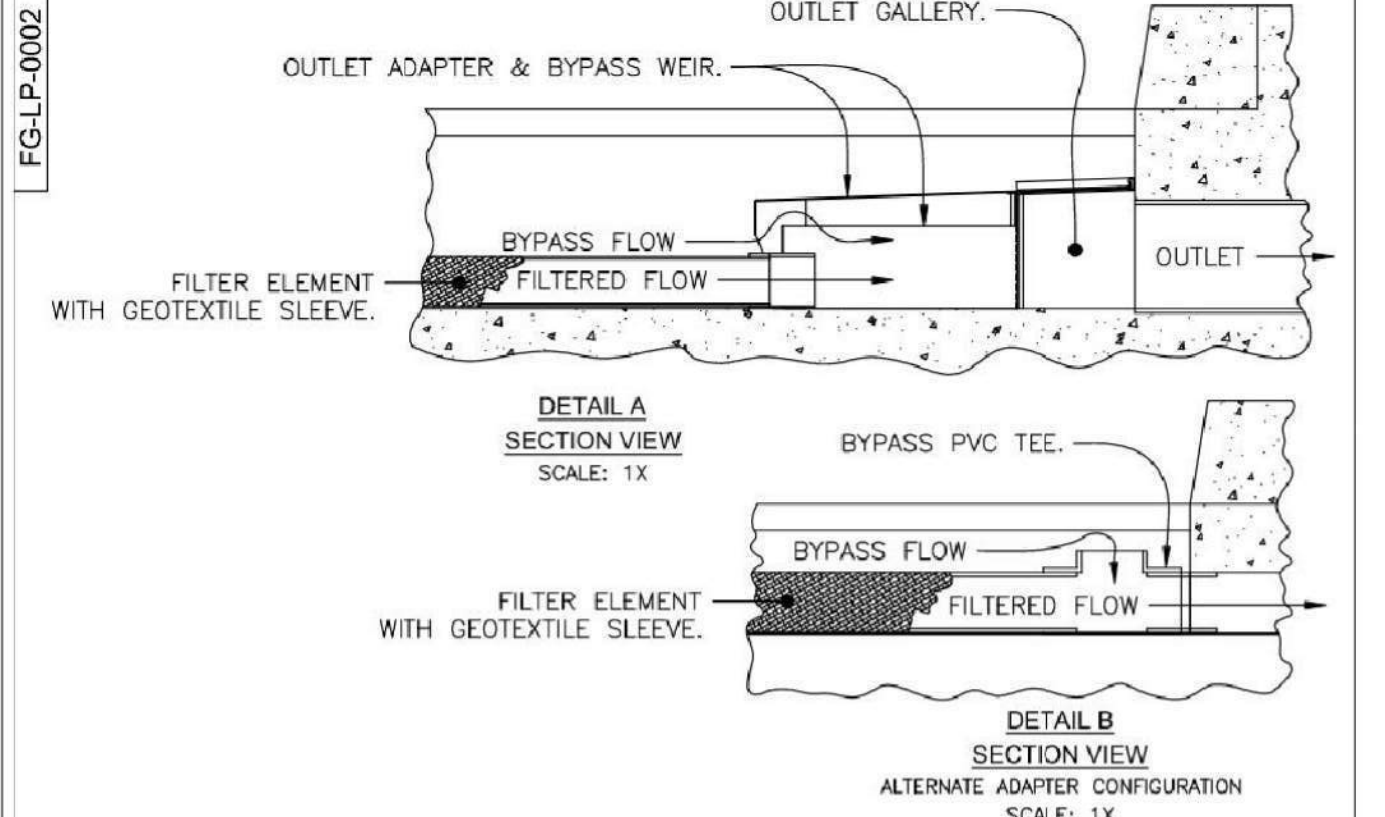
- NOTES:
- Filter insert shall have a high flow bypass feature.
 - Filter outlet adaptor shall be constructed from stainless steel Type 304. Alternate outlet adaptor for shallow installations shall be PVC SCH-40. See detail B, sheet 2 of 2.
 - Filter medium shall be Fossil Rock™, installed and maintained in accordance with manufacturer specifications.
 - Storage capacity reflects 80% of maximum solids collection prior to impeding filtering bypass.
 - For alternate outlet adaptor configurations used for extremely shallow trench drains contact Oldcastle Stormwater Solutions for engineering assistance.
 - Filter element should be a minimum of one half the length of trench. Confirm flow rate upon order.

FloGard®
Catch Basin Insert Filter
Trench Drain Style

Oldcastle Infrastructure™
A CRH COMPANY

Ph: 602.578.8819 | www.oldcastleinfrastructure.com/stormwater

DRAWING NO. FG-LP-0002 | REV. 1 | DATE 12/26/19 | SHEET 1 OF 2



SPECIFIER CHART						
MODEL	FILTER TYPE	TRENCH WIDTH "OD" (CLEAR OPENING)	MINIMUM TRENCH DEPTH (FROM BOTTOM OF GRATE)	SOLIDS STORAGE CAPACITY CUBIC FEET	FILTERED FLOW CAPACITY CUBIC FEET / SECOND	TOTAL BYPASS CAPACITY CUBIC FEET / SECOND
FG-TDOF3	PIPE *	3.0	6.5	0.1	0.5	0.1
FG-TDOF4	PIPE *	4.0	6.5	0.2	0.5	0.1
FG-TDOF6	PIPE	6.0	6.5	0.4	0.5	0.2
FG-TDOF8	PIPE	8.0	6.5	0.7	0.5	0.3
FG-TDOF10	PIPE	10.0	6.5	0.9	0.5	0.5
FG-TDOF12	PIPE	12.0	6.5	0.9	1.0	0.6
FG-TDOF18	PIPE	18.0	6.5	1.3	1.5	1.1
FG-TDOF24	PIPE	24.0	6.5	1.8	2.0	1.5
FG-TDOA6	PANEL	6.0	4.5	0.4	0.2	0.2
FG-TDOA8	PANEL	8.0	4.5	0.7	0.2	0.3
FG-TDOA10	PANEL	10.0	4.5	0.8	0.3	0.5
FG-TDOA12	PANEL	12.0	4.5	1.0	0.4	0.6
FG-TDOA18	PANEL	18.0	4.5	1.4	0.8	1.1
FG-TDOA24	PANEL	24.0	4.5	1.8	1.1	1.5

* ALTERNATE ADAPTER CONFIGURATION. SEE DETAIL B.
** CAPACITY PER 5-FT. SEGMENT USED.

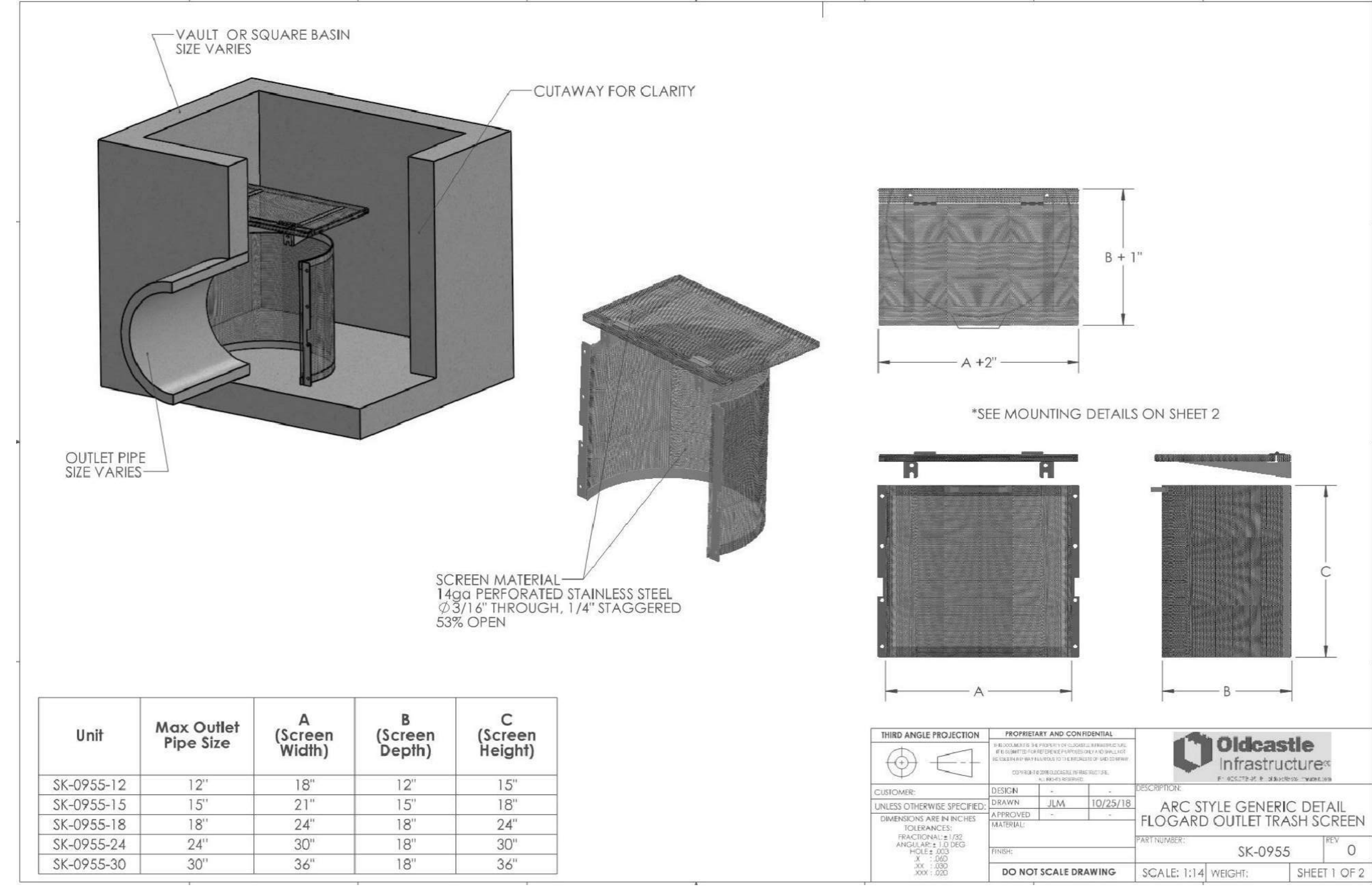
FloGard®
Catch Basin Insert Filter
Trench Drain Style

Oldcastle Infrastructure™
A CRH COMPANY

Ph: 602.578.8819 | www.oldcastleinfrastructure.com/stormwater

DRAWING NO. FG-LP-0002 | REV. 1 | DATE 12/26/19 | SHEET 2 OF 2

49
TRENCH DRAIN INSERT FILTER DETAILS
NOT TO SCALE



Unit	Max Outlet Pipe Size	A (Screen Width)	B (Screen Depth)	C (Screen Height)
SK-0955-12	12"	18"	12"	15"
SK-0955-15	15"	21"	15"	18"
SK-0955-18	18"	24"	18"	24"
SK-0955-24	24"	30"	18"	30"
SK-0955-30	30"	36"	18"	36"

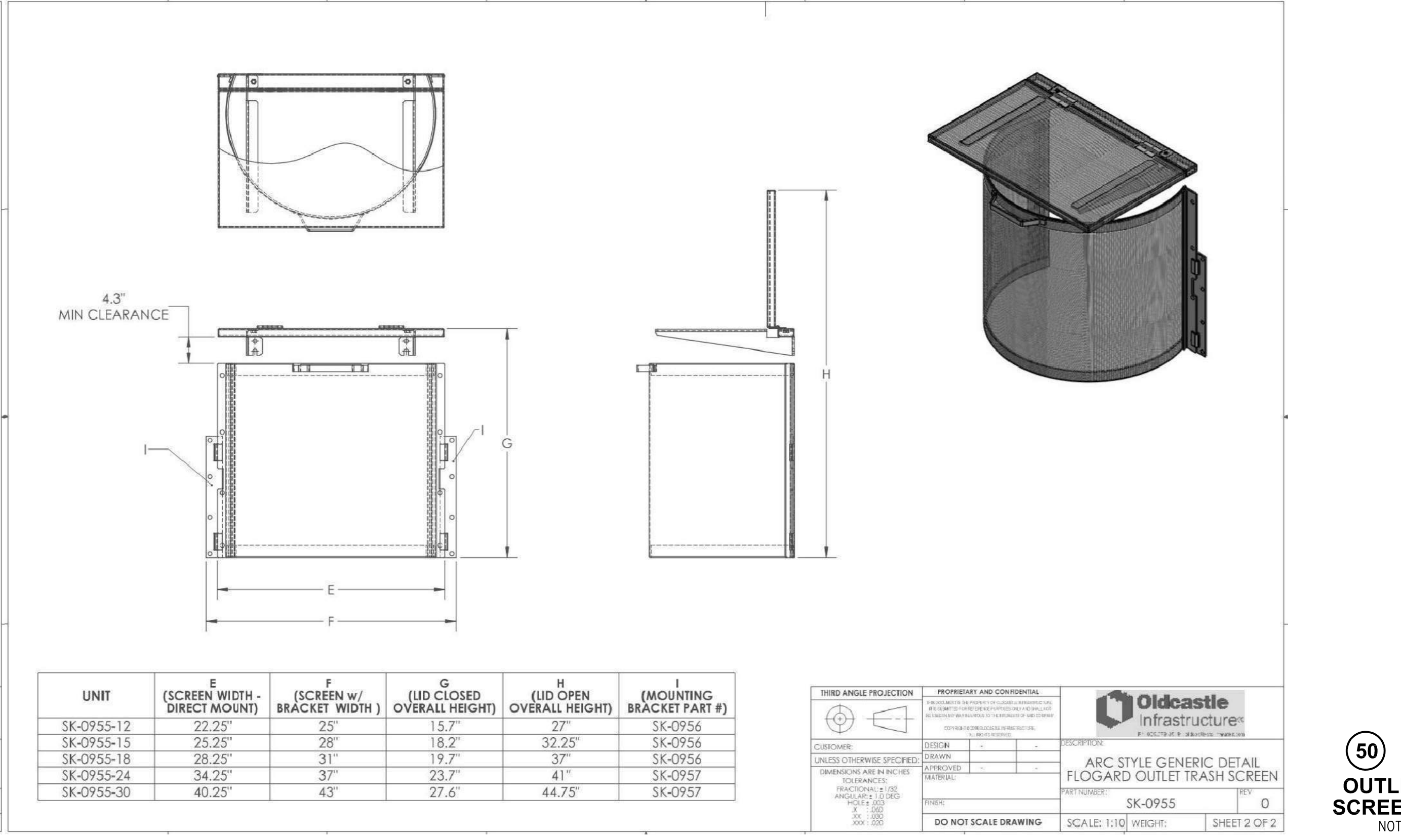
Oldcastle Infrastructure™
A CRH COMPANY

Ph: 602.578.8819 | www.oldcastleinfrastructure.com/stormwater

ARC STYLE GENERIC DETAIL FLOGARD OUTLET TRASH SCREEN

SK-0955 | REV. 0

DO NOT SCALE DRAWING | SCALE: 1:14 | WEIGHT: | SHEET 1 OF 2



UNIT	E (SCREEN WIDTH - DIRECT MOUNT)	F (SCREEN W/ BRACKET WIDTH)	G (LID CLOSED OVERALL HEIGHT)	H (LID OPEN OVERALL HEIGHT)	I (MOUNTING BRACKET PART #)
SK-0955-12	22.25"	25"	15.7"	27"	SK-0956
SK-0955-15	25.25"	28"	18.2"	32.25"	SK-0956
SK-0955-18	28.25"	31"	19.7"	37"	SK-0956
SK-0955-24	34.25"	37"	23.7"	41"	SK-0957
SK-0955-30	40.25"	43"	27.6"	44.75"	SK-0957

Oldcastle Infrastructure™
A CRH COMPANY

Ph: 602.578.8819 | www.oldcastleinfrastructure.com/stormwater

ARC STYLE GENERIC DETAIL FLOGARD OUTLET TRASH SCREEN

SK-0955 | REV. 0

DO NOT SCALE DRAWING | SCALE: 1:10 | WEIGHT: | SHEET 2 OF 2

50
OUTLET TRASH SCREEN DETAILS
NOT TO SCALE

BENCH MARK:
No. QY11328, ELEV. 15.323 FEET
DATE ADJ. 2005, QUAD. HAWTHORNE/TORRANCE

Underground Service Alert
DigAlert
CALL: TOLL FREE 811
TWO WORKING DAYS BEFORE YOU DIG

IMPORTANT NOTICE
SECTION 4212/4217 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A PERMIT TO EXCAVATE WILL BE VALID.

REVISIONS		
No.	DESCRIPTION	DATE

AS
ADAMS STREETER
Civil Engineers
16755 Von Karman, Suite 150, Irvine, CA 92606 | 949.474.2330 | adams-streeter.com

PLANS PREPARED BY:
MOHAMMAD MOHAMMADABADI, P.E.
No. 42615
EXP. 3-31-26
CIVIL
STATE OF CALIFORNIA

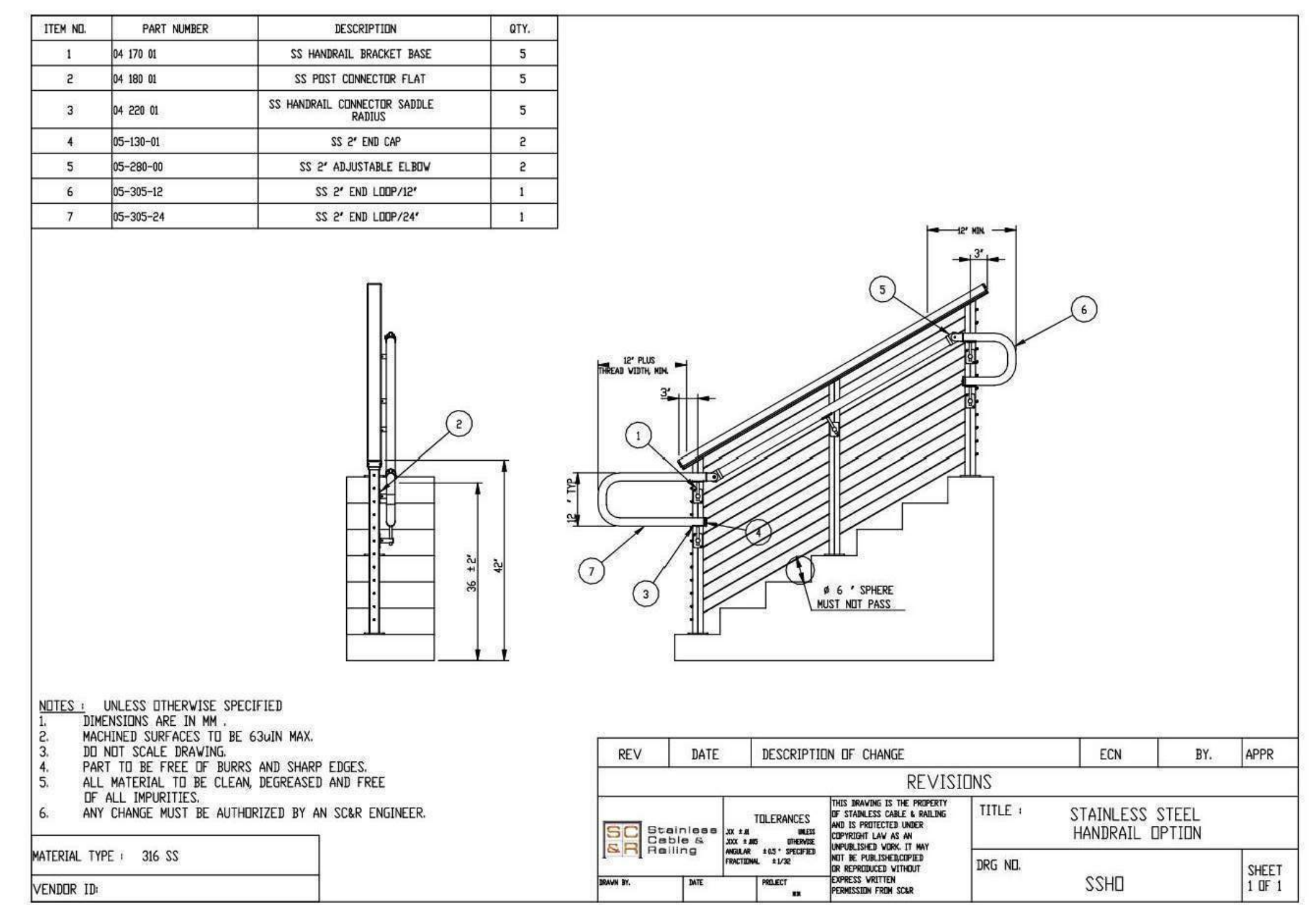
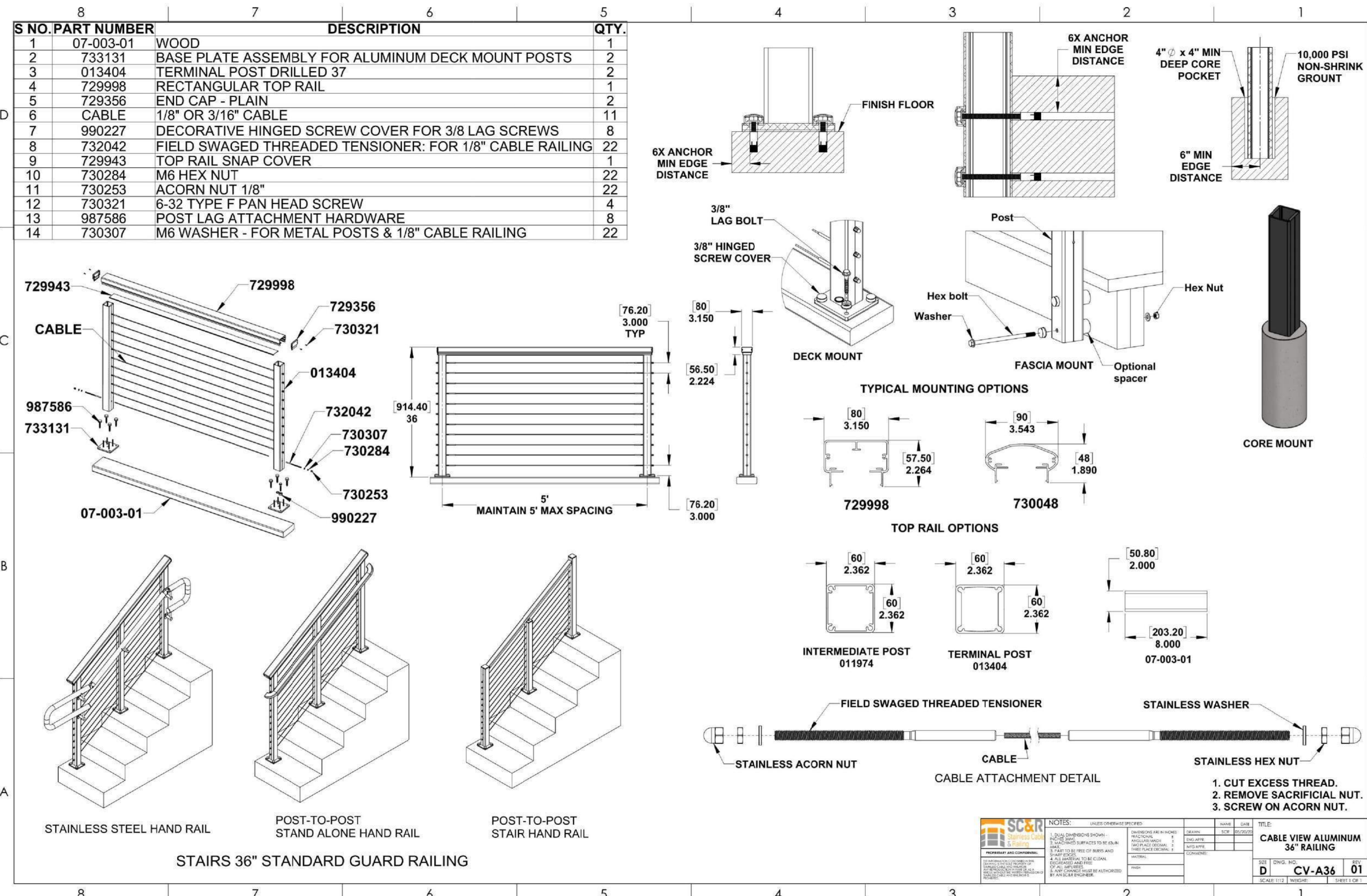
6/25/2024

CITY OF HERMOSA BEACH
PUBLIC WORKS DEPARTMENT

RECOMMENDED FOR PERMIT ISSUANCE:
J. Okami
10/03/2024

PUBLIC IMPROVEMENT PLANS
PARKING LOT "D"
1331 MANHATTAN AVENUE
DRAINAGE DETAILS

FILE NUMBER
XXXXX-CIVIL
C-12
SHT. 12 OF 31



NOTICE TO CONTRACTOR
 CONTRACTOR SHALL ORDER INTERMEDIATE AND TERMINAL POSTS TO LENGTH REQUIRED TO CORE MOUNT INTO TOP OF PROPOSED WALLS. SEE STRUCTURAL WALL DETAILS, SHEETS 9-11, FOR MINIMUM POST EMBEDMENT REQUIREMENTS.

59A GUARDRAIL DETAIL:
 NOT TO SCALE

59B HANDRAIL DETAIL:
 NOT TO SCALE

BENCH MARK:
 No. QY11328, ELEV. 15.323 FEET
 DATE ADJ. 2005, QUAD. HAWTHORNE/TORRANCE

Underground Service Alert
 DigAlert
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REVISIONS		
No.	DESCRIPTION	DATE

AS ADAMS STREETER
 Civil Engineers
 16755 Von Karman, Suite 150, Irvine, CA 92606 (949) 474-2330 | adams-streeter.com

PLANS PREPARED BY:

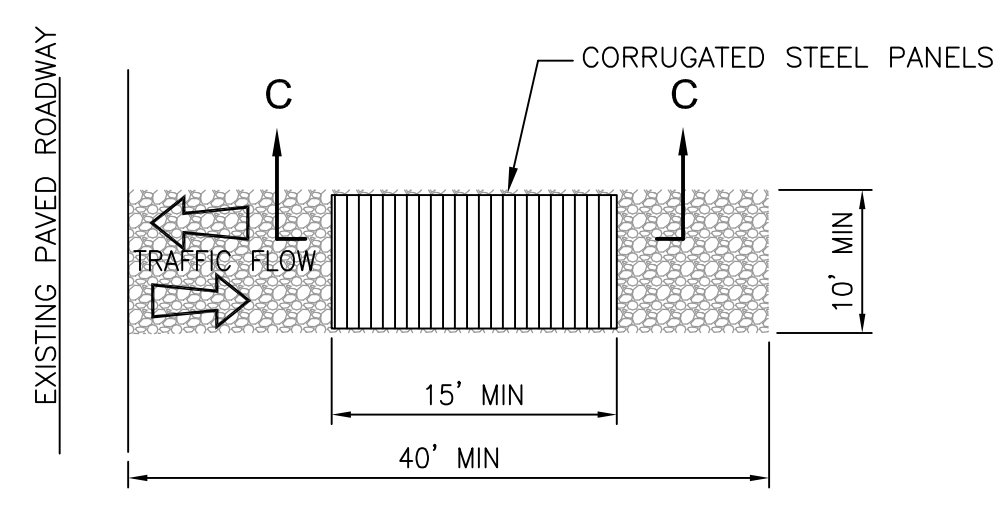
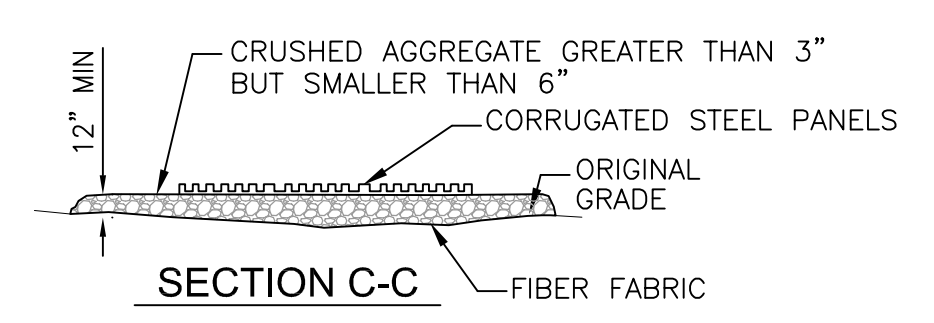
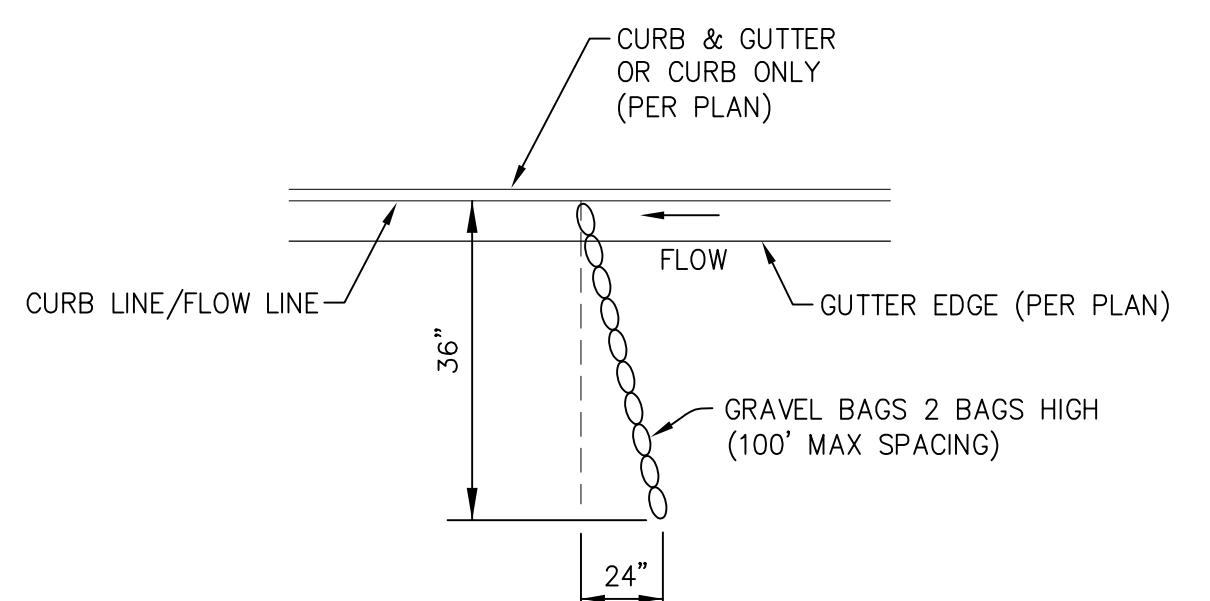
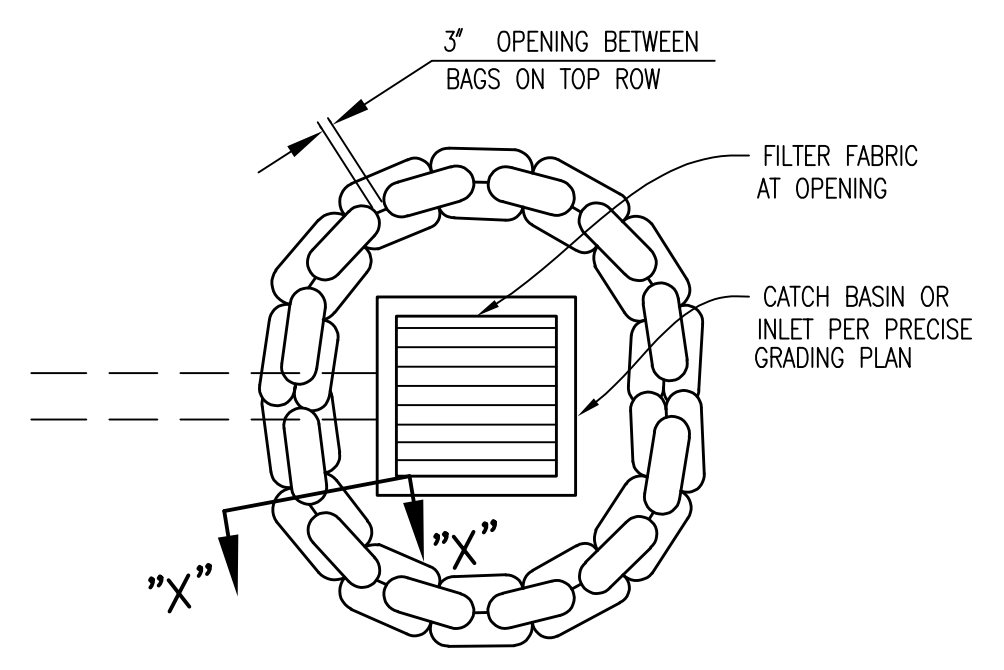
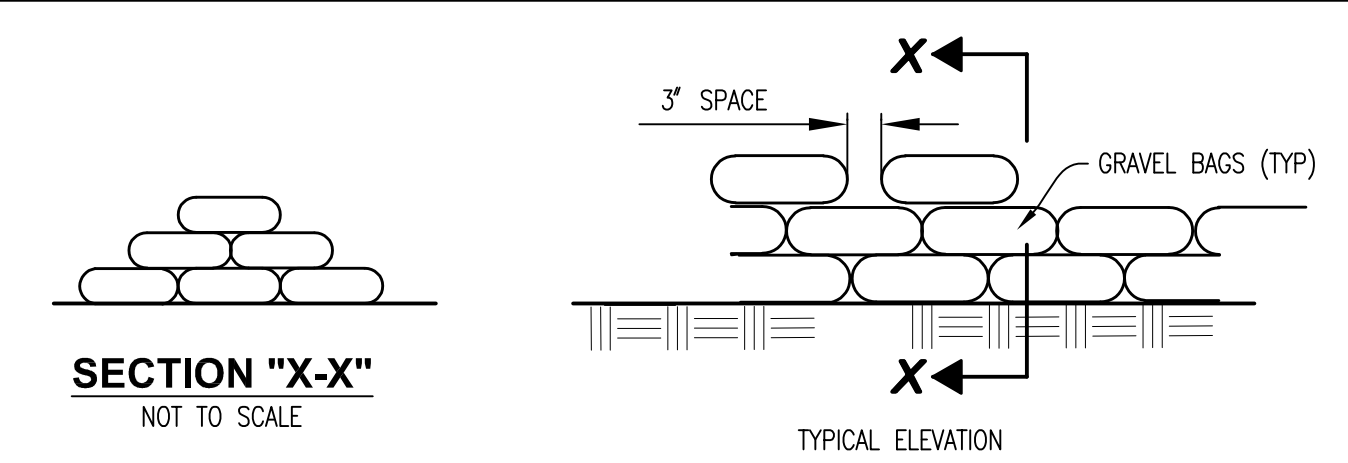
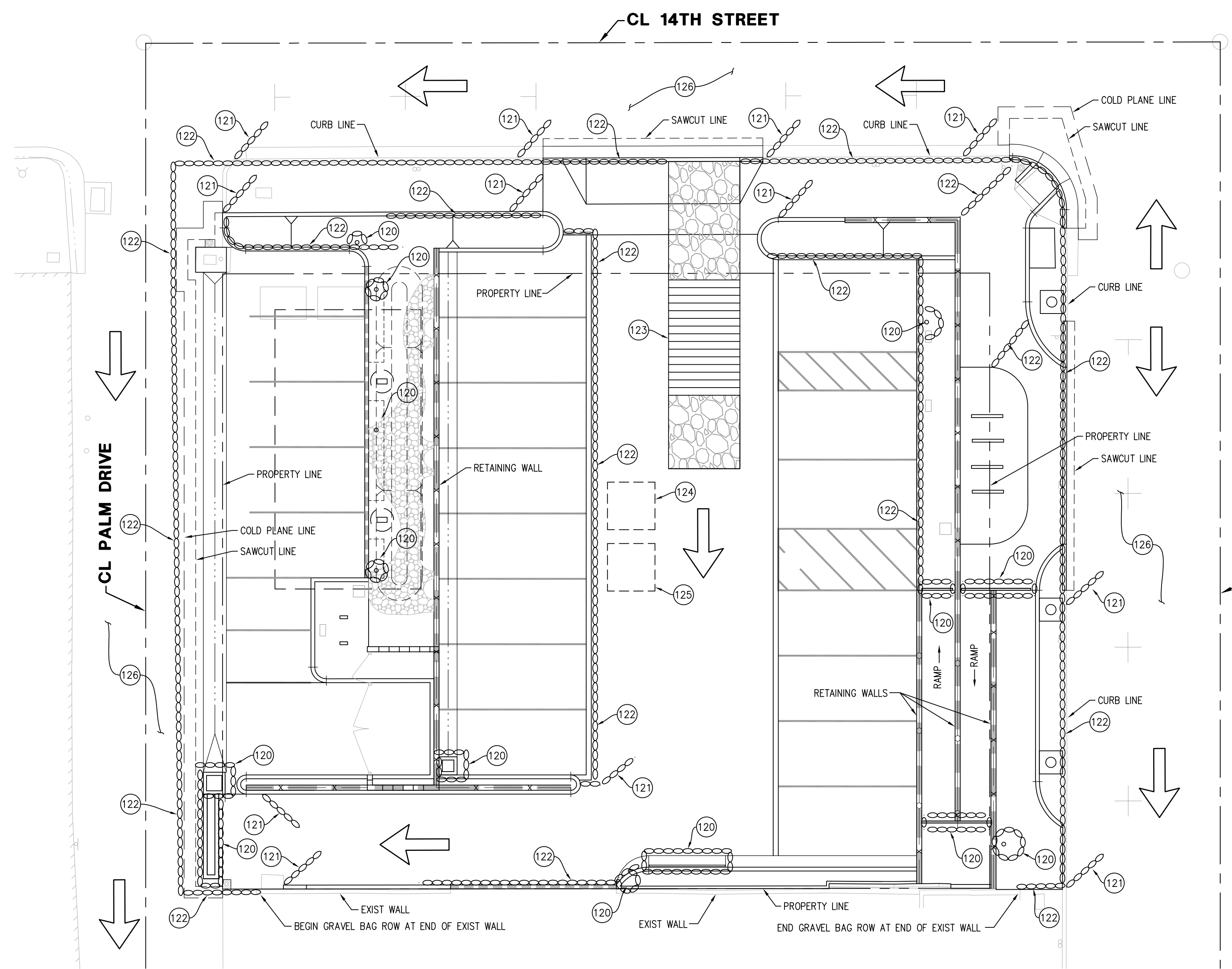
 MOHAMMAD MOHAMMADABADI, P.E. RCE 42615, EXPIRES 3/31/26 DATE 6/25/2024

CITY OF HERMOSA BEACH
 PUBLIC WORKS DEPARTMENT
 RECOMMENDED FOR PERMIT ISSUANCE:

 10/03/2024

PUBLIC IMPROVEMENT PLANS
PARKING LOT "D"
 1331 MANHATTAN AVENUE
 GUARDRAIL AND HANDRAIL DETAILS

FILE NUMBER
 XXXXX-CIVIL
C-13
 SHT. 13 OF 31



EROSION CONTROL NOTES AND QUANTITIES:		
NO.	DESCRIPTION	QUANTITY
120	INSTALL TEMPORARY GRAVEL BAGS AROUND DRAINAGE INLET PER DETAIL HEREON. (SE-6)	18 EA
121	PLACE GRAVEL BAG VELOCITY REDUCERS PER DETAIL HEREON. (SE-6)	36 LF
122	INSTALL SINGLE ROW OF GRAVEL BAGS, ONE BAG HIGH. (SE-6)	540 LF
123	INSTALL STABILIZED CONSTRUCTION ENTRANCE/EXIT PER CALIFORNIA STORMWATER BMP HANDBOOK TC-1 AND DETAIL HEREON. FINAL LOCATION SHALL BE DETERMINED DURING CONSTRUCTION.	1 EA
124	VEHICLE AND EQUIPMENT CLEANING (NS-8)	1 EA
125	CONCRETE WASH MANAGEMENT (WM-8)	1 EA
126	STREET SWEEPING (SE-7)	1 LS

- EROSION CONTROL GENERAL NOTES:**
- SEE SHEET 1 FOR LEGEND AND ABBREVIATIONS.
 - SEE SHEET 3 FOR DRAINAGE PLAN.
 - SEE SHEET 4 FOR WALL PLAN.
 - SEE SHEET 5 FOR PRECISE GRADING AND PAVING PLAN.
 - ← INDICATES DRAINAGE DIRECTION

- WATER QUALITY REQUIREMENTS:**
- PRECAUTIONS SHALL BE TAKEN TO PREVENT ANY CONSTRUCTION MATERIAL, DEBRIS OR RUNOFF FROM ENTERING ANY PUBLIC RIGHT-OF-WAY OR COUNTY STORM DRAIN. ALL SAW CUT RESIDUE MUST BE RETAINED WITH BERMS OR SANDBAGS AND VACUUMED TO PREVENT IT FROM ENTERING INTO ANY STORM DRAIN SYSTEM.
 - SANDBAGS ARE REQUIRED FOR EROSION CONTROL DURING THE RAINY SEASON, OCTOBER 15TH THROUGH APRIL 15TH, AND MAY BE REQUIRED AT OTHER TIMES. SANDBAGS ARE REQUIRED AT NEARBY CATCH BASINS DURING CONSTRUCTION. SANDBAGS SHALL BE MAINTAINED AND IN GOOD CONDITION AT ALL TIMES.
 - MAKE SURE BROKEN PAVEMENT DOES NOT COME IN CONTACT WITH RAINFALL OR RUNOFF.
 - SHOVEL OR VACUUM SAW-CUT SLURRY AND REMOVE FROM THE SITE. FOR DISPOSAL INFORMATION CONTACT THE L.A. COUNTY DEPARTMENT OF PUBLIC WORKS AT 800-552-5218.
 - COVER OR BARRICADE STORM DRAIN OPENINGS DURING SAW-CUTTING.
 - DURING CONSTRUCTION:
 - PROTECT CATCH BASINS AND MAINTENANCE HOLES WHEN APPLYING SEAL COAT, SLURRY SEAL, FOG SEAL, ETC.
 - USE CHECK DAMS, DITCHES OR BERMS TO DIVERT RUNOFF AROUND EXCAVATIONS.
 - COLLECT AND RECYCLE EXCESS ABRASIVE GRAVEL OR SAND.
 - AVOID OVER-APPLICATION BY WATER TRUCKS FOR DUST CONTROL.
 - NEVER HOSE DOWN "DIRTY" PAVEMENT OR SURFACES. CLEAN UP ALL SPILLS AND LEAKS USING "DRY" METHODS (WITH ABSORBENT MATERIALS AND/OR RAGES), OR DIG UP AND REMOVE CONTAMINATED SOIL. FOR DISPOSAL INFORMATION CALL (800) 552-5218.
 - CATCH DRIPS FROM PAVEMENT WITH DRIP PANS OR ABSORBENT MATERIAL (CLOTH, RAGS, ETC.) PLACED UNDER MACHINE WHEN NOT IN USE.



10' 5' 0' 10' 20'
GRAPHIC SCALE: 1"=10'

BENCH MARK:
No. QY11328, ELEV. 15.323 FEET
DATE ADJ. 2005, QUAD. HAWTHORNE/TORRANCE

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DigAlert
CALL: TOLL FREE 811
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REVISIONS		
No.	DESCRIPTION	DATE

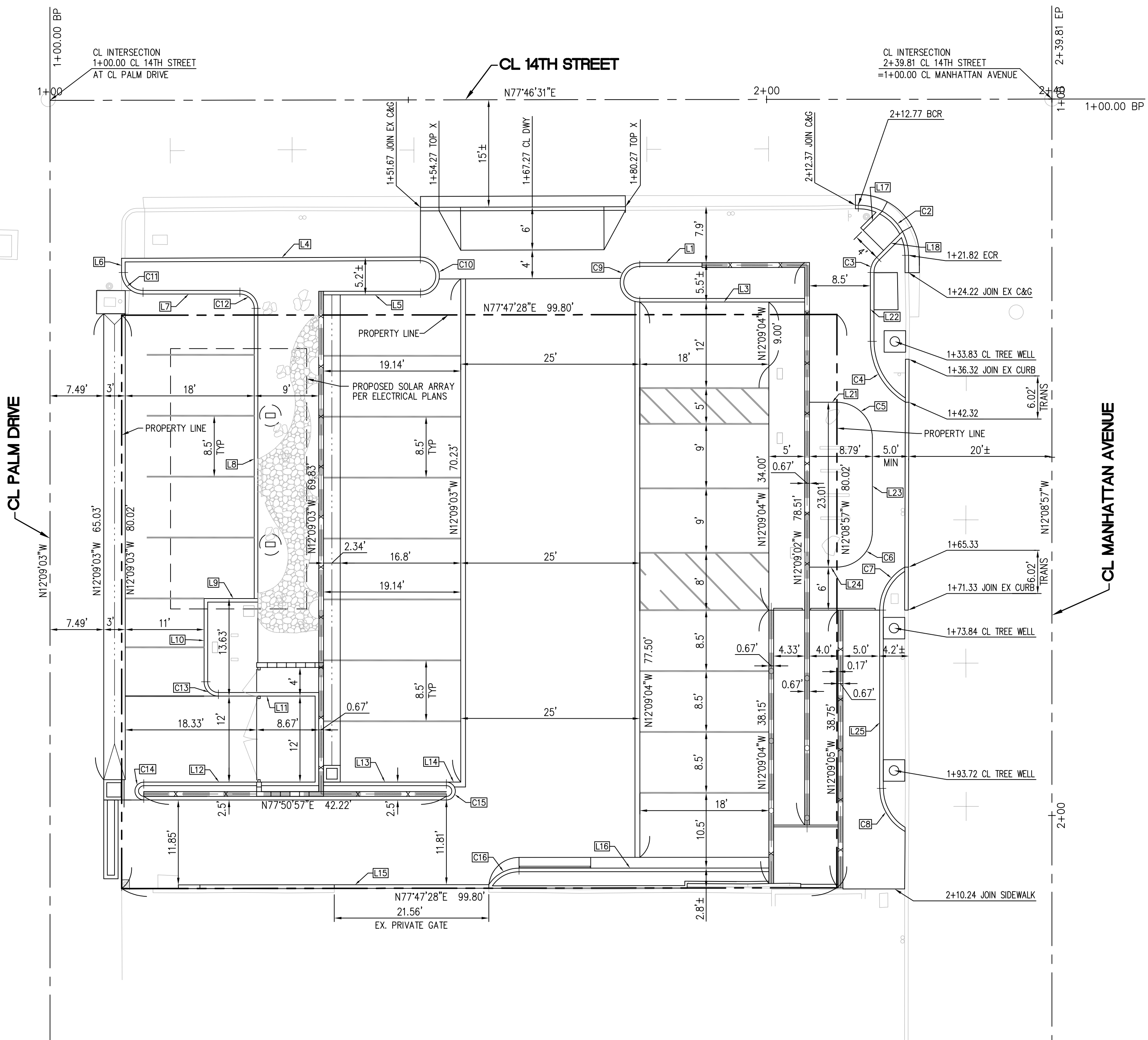
AS
ADAMS STREETER
Civil Engineers
16755 Von Karman, Suite 150, Irvine, CA 92606 | 949.474.2330 | adams-streeter.com

PLANS PREPARED BY:
REGISTERED PROFESSIONAL ENGINEER
MOHAMMAD MOHAMMADABADI
No. 42615
EXP. 3-31-26
CIVIL
STATE OF CALIFORNIA
M.M. M.A.
6/25/2024
MOHAMMAD MOHAMMADABADI, P.E. RCE 42615, EXPIRES 3/31/26 DATE

CITY OF HERMOSA BEACH
PUBLIC WORKS DEPARTMENT
RECOMMENDED FOR PERMIT ISSUANCE:
J. Okami
10/03/2024

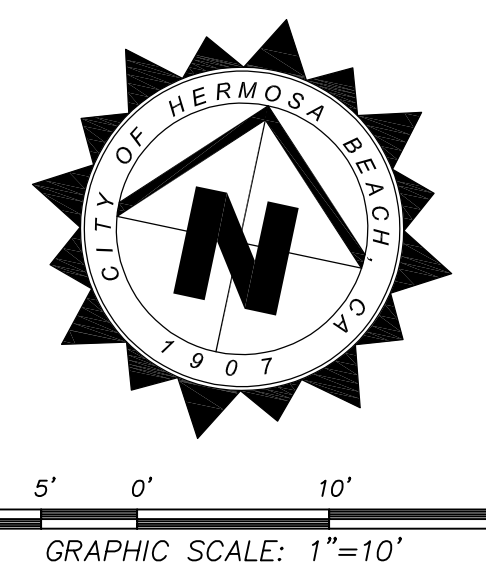
PUBLIC IMPROVEMENT PLANS
PARKING LOT "D"
1331 MANHATTAN AVENUE
EROSION CONTROL PLAN

FILE NUMBER
XXXXX-CIVIL
C-14
SHT. 14 OF 31



LINE	BEARING	LENGTH
L1	N77° 39' 50"E	8.67'
L3	S77° 51' 01"W	23.00'
L4	S77° 36' 22"W	41.69'
L5	N77° 50' 48"E	13.52'
L6	S12° 09' 03"E	1.97'
L7	N77° 50' 57"E	13.51'
L8	N12° 09' 03"W	40.50'
L9	N77° 50' 57"E	7.00'
L10	N12° 09' 03"W	11.63'
L11	S77° 50' 57"W	13.50'
L12	S77° 50' 57"W	23.91'
L13	N77° 50' 57"E	17.14'
L14	N77° 50' 57"E	2.00'
L15	S77° 47' 28"W	43.33'
L16	S77° 50' 57"W	34.86'
L17	S32° 48' 47"W	3.75'
L18	S32° 48' 47"W	5.10'
L21	S77° 50' 58"W	3.79'
L22	S12° 09' 02"E	9.61'
L23	N12° 09' 05"W	13.01'
L24	N77° 50' 55"E	3.79'
L25	S12° 09' 05"E	24.88'

CURVE	DELTA	RADIUS	LENGTH
C2	90°04'32"	7.00'	11.00'
C3	44°57'49"	3.00'	2.35'
C4	59°41'05"	9.85'	10.26'
C5	89°59'57"	5.00'	7.85'
C6	90°00'00"	5.00'	7.85'
C7	60°34'57"	6.89'	7.28'
C8	60°53'44"	6.89'	7.33'
C9	180°00'00"	2.74'	8.61'
C10	180°14'26"	2.64'	8.31'
C11	90°00'00"	3.00'	4.71'
C12	90°00'00"	2.00'	3.14'
C13	90°00'00"	2.00'	3.14'
C14	180°00'04"	1.25'	3.93'
C15	179°59'52"	1.25'	3.93'
C16	57°19'45"	5.00'	5.00'



BENCH MARK:
 No. QY11328, ELEV. 15.323 FEET
 DATE ADJ. 2005, QUAD. HAWTHORNE/TORRANCE

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IMPORTANT NOTICE
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No.	DESCRIPTION	DATE

AS
ADAMS STREETER
 Civil Engineers
16755 Von Karman, Suite 150, Irvine, CA 92606 (949) 474-2330 | adams-streeter.com

PLANS PREPARED BY:

M.M. L.L.
 MOHAMMAD MOHAMMADABADI, P.E. RCE 42615, EXPIRES 3/31/26 DATE 6/25/2024

CITY OF HERMOSA BEACH
 PUBLIC WORKS DEPARTMENT
 RECOMMENDED FOR PERMIT ISSUANCE:

 DATE 10/03/2024

FILE NUMBER
 XXXXX-CIVIL
PARKING LOT "D"
1331 MANHATTAN AVENUE
HORIZONTAL CONTROL PLAN

C-15
 SHT. 15 OF 31

CONSTRUCTION LEGEND

- 1 WASTE RECEPTACLE- REFER TO DETAIL C, SHEET L2
- 2 BICYCLE RACK REFER TO DETAIL A, SHEET L2
- 3 CONCRETE PEBBLE SEATING- REFER TO DETAIL B AND D ON SHEET L2
- 4 TREE GRATE- REFER TO CIVIL PLANS
- 5 RIVER COBBLE ROCK- REFER TO DETAIL C, SHEET L9
- 6 BOULDER INSTALLATION- REFER TO DETAIL D, SHEET L9
- 7 HANDRAIL/GUARDRAIL- REFER TO CIVIL PLANS
- 8 ASPHALT CONCRETE PAVING- REFER TO CIVIL PLANS
- 9 PAVERS- REFER TO CIVIL PLANS
- 10 RIVER COBBLE ROCK AT BIOSWALE- REFER TO DETAIL E, SHEET L9

CONSTRUCTION PLAN NOTES

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT FOR THE INSTALLATION OF ALL IMPROVEMENTS AS SHOWN ON THE DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.

CONTRACTOR SHALL REVIEW ALL EXISTING SITE CONDITIONS PRIOR TO SUBMITTING BID AND PRIOR TO COMMENCING INSTALLATION. IF ANY DISCREPANCIES EXIST, THEY SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.

DEVIATIONS BETWEEN THE DRAWINGS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.

COSTS INCURRED DUE TO REPAIR, RESTORATION, OR REPLACEMENT OF EXISTING IMPROVEMENTS WHICH ARE DESIGNATED "TO BE PROTECTED" OR "TO REMAIN" WHICH ARE DAMAGED AS A RESULT OF CONSTRUCTION OPERATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

UNLESS DESIGNATED ON THE DRAWINGS OTHERWISE, ALL MATERIALS DESIGNATED FOR REMOVAL SHALL BE DISPOSED OF OFF-SITE IN A LEGAL MANNER.

HARDSCAPE AND STRUCTURAL ELEMENTS SHALL BE PLACED PER GEOTECHNICAL SOILS REPORT. IF SUCH REPORT IS UNAVAILABLE, CONTRACTOR SHALL DISCUSS PLACEMENT ON SUITABLE GRADE WITH THE ENGINEER.

CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND STAKING ALL SEWER, WATER AND UTILITY LINES ABOVE OR BELOW GRADE THAT MIGHT BE DAMAGED AS A RESULT OF CONSTRUCTION OPERATIONS. CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR ANY COST INCURRED FOR REPAIR, RESTORATION, OR REPLACEMENT OF AFOREMENTIONED UTILITIES DAMAGED AS A RESULT OF CONSTRUCTION OPERATIONS.

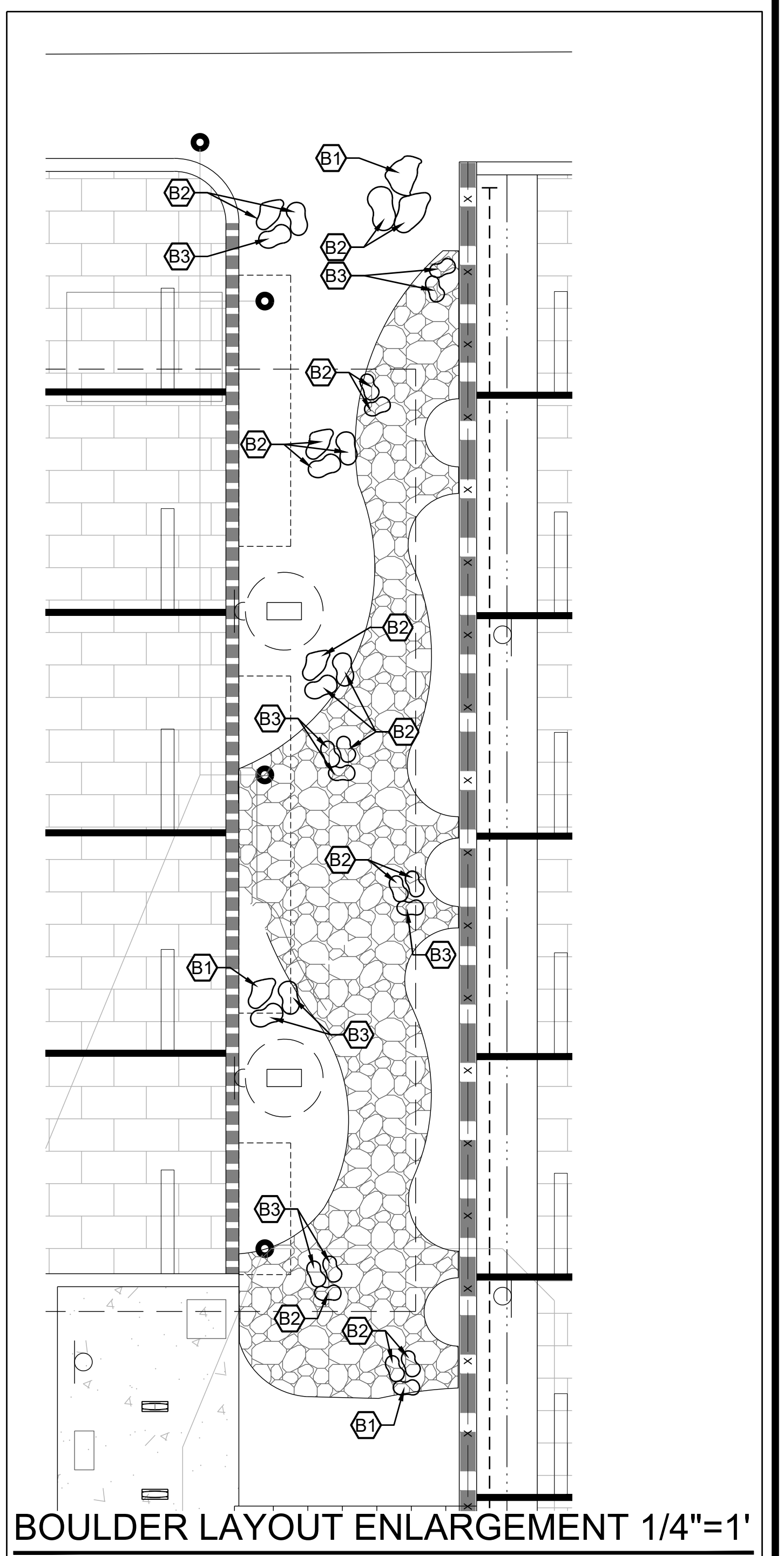
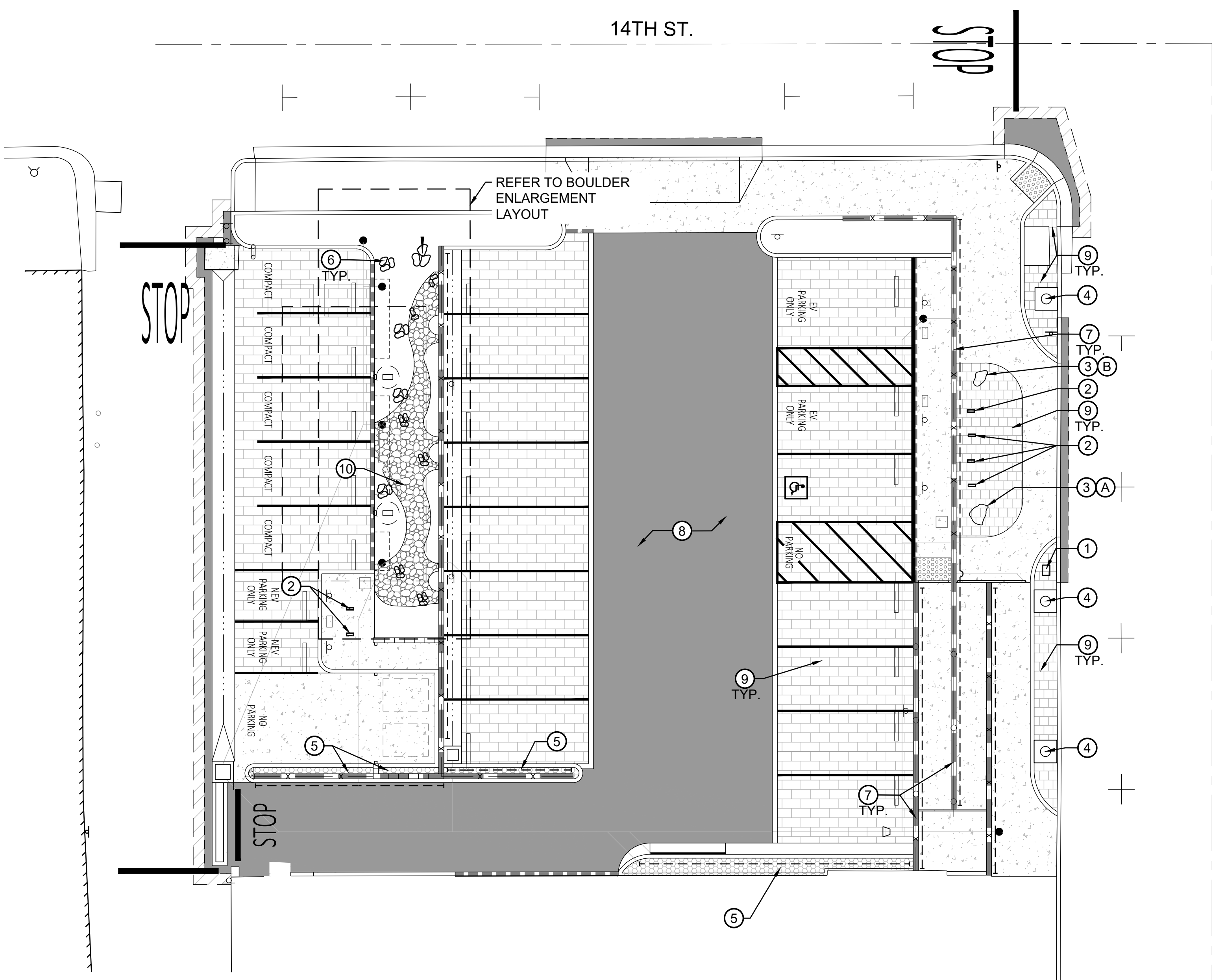
ABANDONED PIPES SHALL BE CAPPED OR PLUGGED IN A MANNER APPROVED BY THE ENGINEER.

CONCRETE INDICATED FOR SAWCUTTING AND REMOVAL SHALL BE CUT TO A TRUE LINE WITH NEATLY SAWED EDGES. IF A SAWCUT IS WITHIN THREE FEET (3') OF AN EXISTING EXPANSION OR CONTROL JOINT, CONCRETE SHALL BE REMOVED TO THAT NEAREST JOINT.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, MANUFACTURER'S CUT OR DATA SHEETS FOR APPROVAL PRIOR TO ORDERING MATERIALS. CONTRACTOR SHALL FURNISH TO THE ENGINEER A CERTIFICATE OF COMPLIANCE FOR SUCH FURNISHED MATERIALS.

UNLESS DESIGNATED ON THE DRAWINGS OTHERWISE, MATERIALS TO BE PURCHASED AND FURNISHED BY THE CONTRACTOR SHALL BE NEW. ALL PRODUCTS SHALL BE CONSIDERED ON AN APPROVED EQUAL BASIS.

PROJECT GEOTECHNICAL REPORT OR RECOMMENDATIONS BY A STRUCTURAL ENGINEER SHALL TAKE PRECEDENCE FOR ALL SOIL CONDITIONS, MATERIALS, REINFORCEMENT, DIMENSIONS, AND SUBBASE.

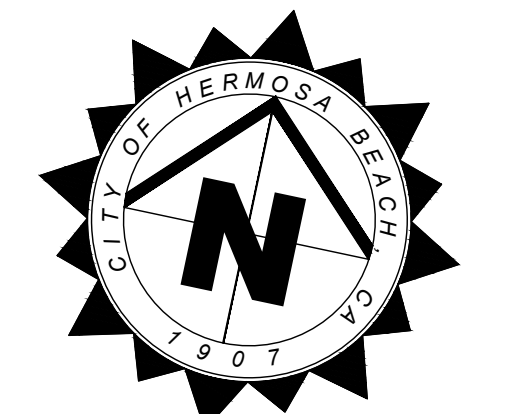


NOTES

- 1 REFER TO SHEET L2 AND L9 FOR THE CONSTRUCTION DETAILS
- 2 REFER TO CIVIL PLANS FOR DEMOLITION, DRAINAGE, CONCRETE PAVING, PAVERS, TREE GATES, WALLS, STRUCTURAL DETAILS, GRADING, SIGNAGE, STRIPING, EROSION & HORIZONTAL CONTROL PLANS.

BOULDER LEGEND

- 5'X5' BOULDERS
 - 3'X3' BOULDERS
 - 2'X2' BOULDERS
- LANDSCAPE BOULDERS AVAILABLE FROM: SOUTHWEST BOULDER
- INSTALL PER DETAIL D, SHEET L9. FINAL LOCATION OF BOULDERS TO BE APPROVED BY CITY AUTHORIZED REPRESENTATIVE.



BENCH MARK:

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No.	DESCRIPTION	DATE

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LANDSCAPE ARCHITECTURE

20250 SW ACACIA ST., SUITE 260
NEWPORT BEACH, CA
U. S. A. 9 2 6 6 0
PH: 714.754.7311

PLANS PREPARED BY:

PERRY A CARDOZA 10-07-2024

LANDSCAPE ARCHITECT, RLA DATE

CITY OF HERMOSA BEACH
PUBLIC WORKS DEPARTMENT

RECOMMENDED FOR PERMIT ISSUANCE:

10/03/2024 DATE

PUBLIC IMPROVEMENT PLANS

PARKING LOT "D"

1331 MANHATTAN AVENUE

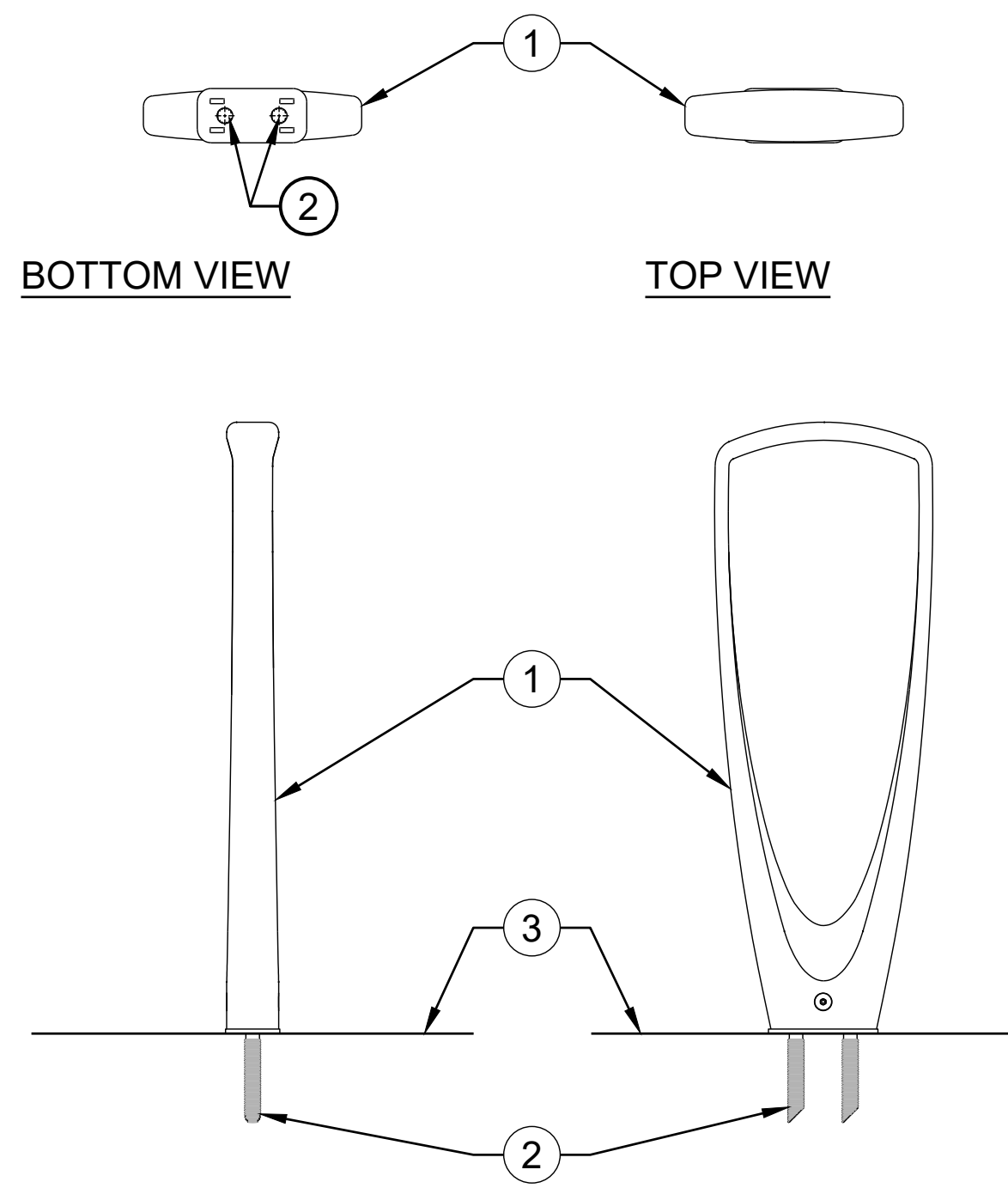
CONSTRUCTION PLAN & NOTES

FILE NUMBER
XXXXX-CIVIL

L1

SHT. 16 OF 31

NOTES:
 1. BIKE RACK AVAILABLE FROM FORMS & SURFACES, (800)451-0410. MODEL: SKTRO. COLOR: ARGENTO
 2. ALL BIKE RACKS SHALL BE INSTALLED PER MANUFACTURER'S DETAILS AND SPECIFICATIONS.
 3. BIKE RACKS SHALL BE BOLTED TO FINISH SURFACE W/ STAINLESS STEEL BOLTS.



- ① BIKE RACK SURFACE MOUNTED PER MANUFACTURER'S SPECIFICATIONS AND DETAILS
- ② STAINLESS STEEL ANCHOR BOLTS, REFER TO MANUFACTURER'S SPECIFICATIONS AND DETAILS
- ③ FINISH SURFACE, REFER TO CONSTRUCTION PLAN

A BIKE RACK
SCALE: NTS

NOTES:
 1. COLOR / TEXTURE: NATURAL COLOR / HONED.
 2. PRODUCT#: Q-PEBBLE3625.
 3. SEATING AVAILABLE AT QCP (866) 703-3434.

PRODUCT: Q-PEBBLE3625 WEIGHT: 764 lbs. (330 LBS TO PRODUCT) (434 LBS (200 LBS))

CONCRETE COLOR: NATURAL FRESH GREY CHARTRUSS ECH HONEY MASON WHITE LATE STROKA BICOCH CUSTOM

CONCRETE TEXTURE: SANDSTONE BRICK BRUSH

QUANTITY: _____ SEALER: PERMASHIELD 4200 SEALER

GENERAL PRODUCT NOTES:
 E = EXPOSED FINISHED SURFACE
 INSTALLATION IS REQUIRED BY OTHERS.
 ALL EDGES TO BE EASED.
 MANUFACTURING TOLERANCE ±1/4"
 ANCHORING METHOD BY OTHERS

Authorized Signature _____ Date _____

HARDWARE LIST

QTY	TYPE
2	1/2" DIA. x 4 1/2" ANCHOR BOLT
1	SKIRLEX

PLAN TYPE: CONSTRUCTION PLAN DATE: 6/27/23 FILE NO: Q-PEBBLE 3625 SHEET: 1 OF 1
 PRODUCT: Q-PEBBLE3625 | SEATING | PEBBLE SCALE: 5/8" = 1" DRAWN BY: _____
 PROJECT NAME: _____ PC NO: _____ QC REVIEW: _____

B SEATING-B
SCALE: NTS

NOTES:
 1. WASTE RECEPTACLE SHALL BE NATURAL CONCRETE COLOR.
 2. WASTE RECEPTACLE SHALL BE HONED CONCRETE TEXTURE.
 3. ALL EDGES TO BE EASED.
 4. LID MATERIAL SHALL BE STEEL.
 5. LID COLOR SHALL BE GRAY.
 6. STAINLESS STEEL BOLTS SHALL BE USED.
 7. PRODUCT#: QS-ELEV2436W-Z22
 8. WASTE RECEPTACLE AVAILABLE AT QCP (866) 703-3434.

PRODUCT: QS-ELEV2436W-Z22 WEIGHT: 191 lbs. (330 LBS TO PRODUCT) (160 LBS (80 LBS))

CONCRETE COLOR: NATURAL FRESH GREY CHARTRUSS ECH HONEY MASON WHITE LATE STROKA BICOCH CUSTOM

CONCRETE TEXTURE: SANDSTONE BRICK BRUSH

QUANTITY: _____ SEALER: PERMASHIELD 4200 SEALER

GENERAL PRODUCT NOTES:
 E = EXPOSED FINISHED SURFACE
 INSTALLATION IS REQUIRED BY OTHERS.
 ALL EDGES TO BE EASED.
 MANUFACTURING TOLERANCE ±1/4"
 ULTRASHIT

LID MATERIAL: ALUMINUM STEEL

LID COLORS: BLACK GREY BRUSH BLUE

Authorized Signature _____ Date _____

HARDWARE LIST

QTY	TYPE
1	(OSPL25) 25 GALLON PLASTIC LINER
1	(LID-Z22) 22" O.D. FUNNEL LID

PLAN TYPE: CONSTRUCTION PLAN DATE: 6/14/23 FILE NO: QS-ELEV2436W-Z22 SHEET: 1 OF 1
 PRODUCT: QS-ELEV2436W-Z22 | WASTE CONT. | ELEVAIRE SCALE: 3/4" = 1" DRAWN BY: _____
 PROJECT NAME: _____ PC NO: _____ QC REVIEW: _____

C WASTE RECEPTACLE
SCALE: NTS

NOTES:
 1. COLOR / TEXTURE: NATURAL COLOR / HONED.
 2. PRODUCT#: Q-PEBBLE4228.
 3. SEATING AVAILABLE AT QCP (866) 703-3434.

PRODUCT: Q-PEBBLE4228 WEIGHT: 1020 lbs. (330 LBS TO PRODUCT) (690 LBS (350 LBS))

CONCRETE COLOR: NATURAL FRESH GREY CHARTRUSS ECH HONEY MASON WHITE LATE STROKA BICOCH CUSTOM

CONCRETE TEXTURE: SANDSTONE BRICK BRUSH

QUANTITY: _____ SEALER: PERMASHIELD 4200 SEALER

GENERAL PRODUCT NOTES:
 E = EXPOSED FINISHED SURFACE
 INSTALLATION IS REQUIRED BY OTHERS.
 ALL EDGES TO BE EASED.
 MANUFACTURING TOLERANCE ±1/4"
 ANCHORING METHOD BY OTHERS

Authorized Signature _____ Date _____

HARDWARE LIST

QTY	TYPE
2	1/2" DIA. x 4 1/2" ANCHOR BOLT
1	SKIRLEX

PLAN TYPE: CONSTRUCTION PLAN DATE: 6/15/23 FILE NO: Q-PEBBLE 4228 SHEET: 1 OF 1
 PRODUCT: Q-PEBBLE4228 | SEATING | PEBBLE SCALE: 1/2" = 1" DRAWN BY: _____
 PROJECT NAME: _____ PC NO: _____ QC REVIEW: _____

D SEATING-A
SCALE: NTS

BENCH MARK:
 No. QY11328, ELEV. 15.323 FEET
 DATE ADJ. 2005, QUAD. HAWTHORNE/TORRANCE

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REVISIONS

No.	DESCRIPTION	DATE

nuvis
 LANDSCAPE ARCHITECTURE
 20250 SW ACACIA ST., SUITE 260
 NEWPORT BEACH, CA
 U.S.A. 92660
 PH: 714.754.7311

PLANS PREPARED BY:

 PERRY A CARDOZA 10-07-2024
 LANDSCAPE ARCHITECT, RLA DATE

CITY OF HERMOSA BEACH
 PUBLIC WORKS DEPARTMENT
 RECOMMENDED FOR PERMIT ISSUANCE:

 10/03/2024 DATE

PUBLIC IMPROVEMENT PLANS
PARKING LOT "D"
 1331 MANHATTAN AVENUE
 CONSTRUCTION DETAILS

FILE NUMBER
 XXXXX-CIVIL
L2
 SHT. 17 OF 31

IRRIGATION SLEEVES NOTES:
 1. IRRIGATION SLEEVES SHOWN WITHIN MAJOR STREET AND DRIVEWAY CROSSINGS FOR CLARITY ONLY. ALL SLEEVES TO BE MINIMUM 2x DIAMETER OF PIPE. SLEEVING TO EXTEND MINIMUM 12 INCHES BEYOND PAVING OR AS NECESSARY TO ACCESS. CONTRACTOR SHALL INSTALL SLEEVING BELOW ALL PAVING, HARDSCAPE, ETC. AS SHOWN AND AS DIRECTED BY ENGINEER.

KEYNOTES

POINT OF CONNECTION (1) SHALL BE DOWNSTREAM OF AN EXISTING 2" DOMESTIC WATER METER. VERIFY THE ACTUAL LOCATION, SIZE AND WATER PRESSURE IN THE FIELD PRIOR TO STARTING WORK. INSTALL & TEST A 1-1/2" REDUCED PRESSURE BACKFLOW DEVICE PER STATE & LOCAL PLUMBING CODES. INSTALL 1-1/2" MASTER CONTROL VALVE. IF ANY OF THE POC INFORMATION SHOWN ON THESE DRAWINGS IS FOUND TO BE DIFFERENT THAN THE ACTUAL POC INFORMATION GATHERED IN THE FIELD, IMMEDIATELY NOTIFY THE ENGINEER. SHOULD THE CONTRACTOR FAIL TO VERIFY THE POC INFORMATION ANY CHANGES REQUIRED BY LOW PRESSURE OR VOLUME SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

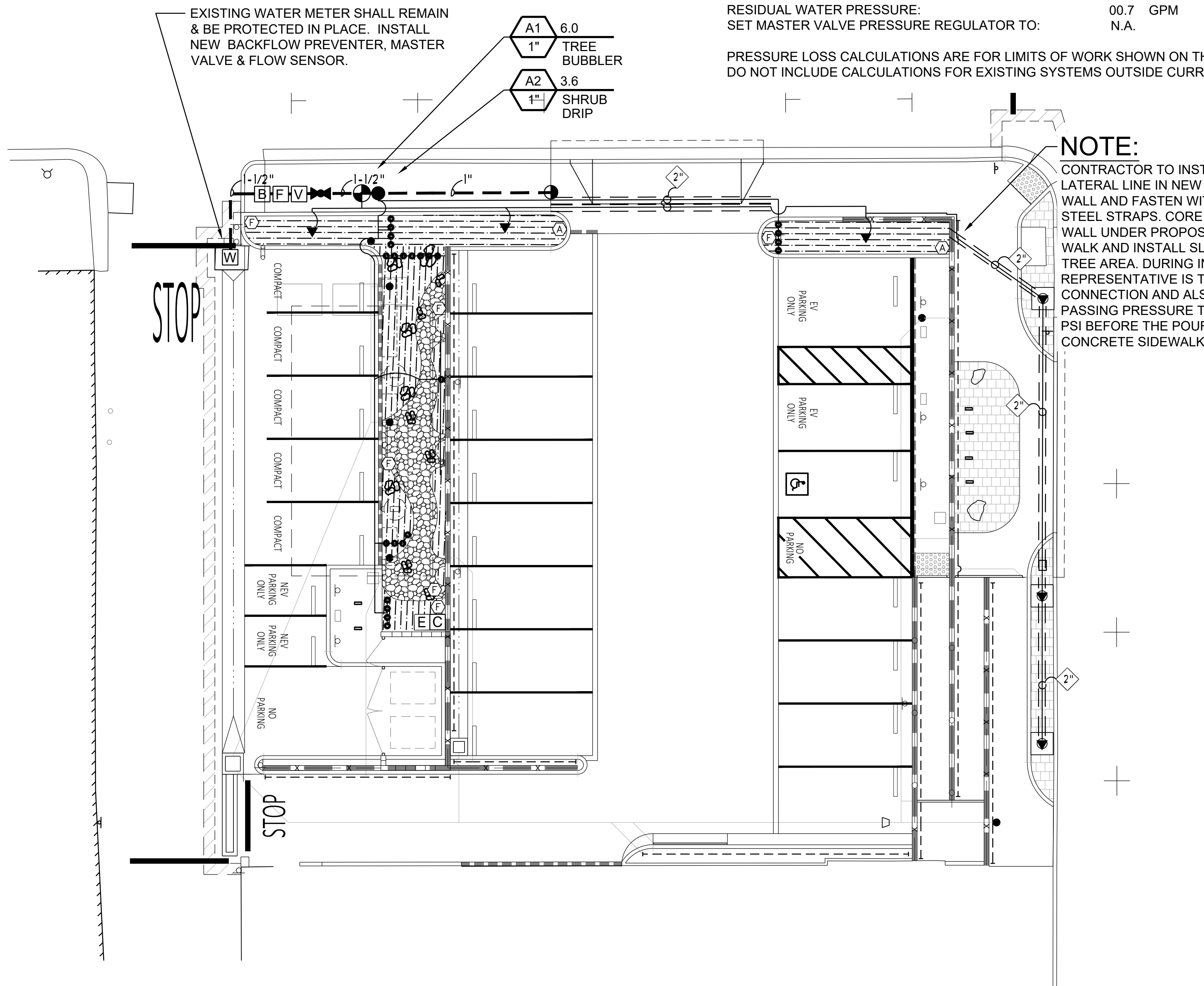
STATIC WATER PRESSURE: 40.0 PSI (VERIFY WITH CITY)
 DESIGN WATER PRESSURE: 20.0 PSI
 MAXIMUM SYSTEM DEMAND: 20.0 GPM
 RESIDUAL WATER PRESSURE: 00.7 GPM
 SET MASTER VALVE PRESSURE REGULATOR TO: N.A.

PRESSURE LOSS CALCULATIONS ARE FOR LIMITS OF WORK SHOWN ON THESE PLANS ONLY AND DO NOT INCLUDE CALCULATIONS FOR EXISTING SYSTEMS OUTSIDE LIMITS OF WORK.

CONTROLLER ASSEMBLY LOCATION NOTES:
 1. CONTROLLER LOCATION SHOWN ON THESE DRAWINGS IS APPROXIMATE. THE LANDSCAPE CONTRACTOR SHALL STAKE OUT THE CONTROLLER LOCATION FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO INSTALLATION OF THIS EQUIPMENT. THE CONTRACTOR IS RESPONSIBLE FOR ELECTRICAL CONNECTION FROM 120 VOLT POWER SOURCE TO THE CONTROLLER AND ALL WIRE CONNECTIONS FROM ALL VALVES AND APPURTENANCE VALVES TO TERMINAL STRIP. REFER TO ENGINEER'S DRAWING'S FOR POWER SOURCE. ALL ELECTRICAL WORK SHALL CONFORM TO LOCAL STATE AND NATIONAL ELECTRICAL CODES AND REGULATIONS. FINAL LOCATION AND EXACT POSITIONING OF THE CONTROLLER SHALL BE DETERMINED BY THE ENGINEER. MINOR MODIFICATIONS OF CONTROLLER REQUESTED BY THE ENGINEER SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY. FAILURE TO OBTAIN ENGINEER'S APPROVAL PRIOR TO THE INSTALLATION SHALL CAUSE THE CONTRACTOR TO MAKE ENGINEER DIRECTED REVISIONS AT NO ADDITIONAL COST TO THE CITY.

VALVE LOCATION NOTES:
 1. ELECTRIC CONTROL VALVES AND ISOLATION VALVE LOCATIONS ON THESE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL STAKE OUT EACH ELECTRICAL CONTROL VALVE AND ISOLATION VALVE LOCATION FOR REVIEW AND APPROVAL BY ENGINEER PRIOR TO INSTALLATION OF ALL VALVES. FINAL LOCATION AND EXACT POSITIONING FOR ELECTRIC CONTROL VALVES AND ISOLATION VALVES SHALL BE DETERMINED BY ENGINEER. MINOR MODIFICATIONS OF ELECTRIC CONTROL VALVES AND ISOLATION VALVE LOCATIONS AS REQUESTED BY THE ENGINEER SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY. FAILURE TO OBTAIN ENGINEER'S APPROVAL PRIOR TO THE INSTALLATION SHALL CAUSE THE CONTRACTOR TO MAKE ENGINEER DIRECTED REVISIONS AT NO ADDITIONAL COST TO THE CITY. IN GENERAL UNLESS OTHERWISE DIRECTED BY ENGINEER, ALL VALVES SHALL BE INSTALLED THREE FEET FROM EDGE OF HARDSCAPE, WALK OR CURB IN SHRUB PLANTING AREAS.

BACKFLOW PREVENTER LOCATION NOTES:
 1. BACKFLOW PREVENTER LOCATION SHOWN ON THESE DRAWINGS IS APPROXIMATE. THE CONTRACTOR SHALL STAKE OUT THE BACKFLOW PREVENTER, AND IRRIGATION APPURTENANCE LOCATION FOR REVIEW AND APPROVAL BY ENGINEER PRIOR TO INSTALLATION OF THIS EQUIPMENT. FINAL LOCATION AND EXACT POSITIONING OF BACKFLOW PREVENTER AND ALL IRRIGATION APPURTENANCE SHALL BE DETERMINED BY THE ENGINEER. MODIFICATIONS OF THE BACKFLOW PREVENTER AND ALL IRRIGATION APPURTENANCE AS REQUESTED BY THE ENGINEER SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY. FAILURE TO OBTAIN ENGINEER'S APPROVAL PRIOR TO THE INSTALLATION SHALL CAUSE THE CONTRACTOR TO MAKE ENGINEER DIRECTED REVISION AT NO CHARGE.



NOTE:
 CONTRACTOR TO INSTALL NEW LATERAL LINE IN NEW SLEEVE UP CMU WALL AND FASTEN WITH STAINLESS STEEL STRAPS. CORE THRU NEW CMU WALL UNDER PROPOSED NEW SIDE WALK AND INSTALL SLEEVE TO NEW TREE AREA. DURING INSTALLATION CITY REPRESENTATIVE IS TO VERIFY CONNECTION AND ALSO TO VERIFY A PASSING PRESSURE TEST SET TO 100 PSI BEFORE THE POURING OF THE CONCRETE SIDEWALK.

DRIP IRRIGATION NOTES

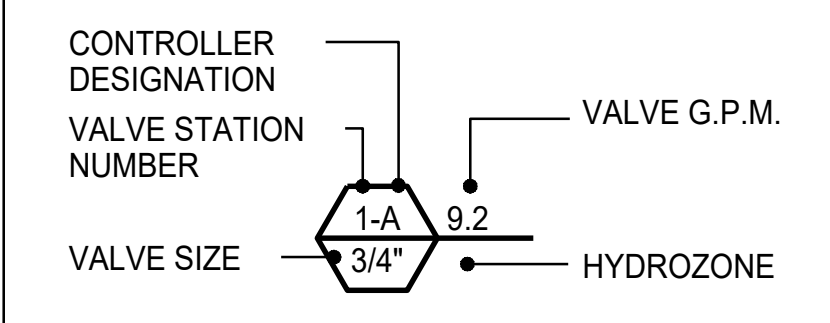
- PLANS ARE DIAGRAMMATIC. INSTALL DRIPLINE AND COMPONENTS PER MANUFACTURERS INSTRUCTIONS AND INSTALLATION DETAILS.
- INSTALL DRIPLINE A MAXIMUM OF 12' APART WITH EMITTERS TRIANGULARLY SPACED. INSTALL 2" FROM PERIMETER OF PLANTED AREA. THERE SHOULD BE A MINIMUM OF TWO DRIPLINE LATERALS IN EACH PLANTED AREA. DRIPLINE SHALL BE INSTALLED AT A CONSISTANT DEPTH THROUGHOUT THE CIRCUIT.
- PLACE AIR/VACUUM RELIEF VALVES AT THE HIGHEST POINTS OF EACH ZONE AND JUST BELOW CHECK VALVES ON SLOPES. INSTALL ONE AIR/VACUUM RELIEF VALVE FOR EVERY 585' OF TOTAL DRIPLINE PER ZONE.
- PLACE FLUSH VALVES AT THE HYDRAULIC CENTER OF THE EXHAUST HEADER OR AT LOW POINT ON SLOPES.
- INSTALL IN-LINE CHECK VALVES ON SLOPES GREATER THAN 3% AND WHERE LOW-LINE DRAINAGE COULD CAUSE WET AREAS IN THE LOWEST AREAS OF AN IRRIGATION ZONE. CHECK VALVES SHALL BE PLACED EVERY 4-5 FEET BETWEEN DRIPLINE LATERALS AND BEFORE THE FLUSH VALVE.
- ON ALL SLOPES, PLACE THE DRIPLINE LATERALS PARALLEL TO THE SLOPE CONTOUR WHERE POSSIBLE. INCREASE THE LATERAL SPACING BY 25% ON THE LOWER ONE-THIRD OF THE SLOPE TO AVOID EXCESS DRAINAGE.
- PVC SUPPLY AND FLUSH LINE SIZING GUIDE (ALL SUPPLY AND FLUSH LINES SHALL BE THE SAME SIZE FOR THE ENTIRE ZONE):
 - 0-8 GPM - 3/4"
 - 8.1-15 GPM - 1"
 - 15.1-25 GPM - 1 1/4"
- FITTINGS SHALL BE OF THE SAME MANUFACTURER AS DRIPLINE.
- THOROUGHLY FLUSH EACH INSTALLATION SEGMENT TO ENSURE NO DEBRIS CONTAMINATION OCCURS.

WATER PRESSURE CALCULATIONS			
POC NUMBER	PARKING LOT	POC SIZE	0
HYDRAULIC GRADE LINE	-	POC ELEVATION	29
ELEVATION DIFFERENCE	10	MINIMUM STATIC WATER PRESSURE	40
REMOTE CONTROL VALVE #	A2	REMOTE CONTROL VALVE SIZE	1"
R.C.V. DEMAND (GPM)	6	TOTAL DEMAND (GPM)	8
HIGHEST HEAD ELEVATION	-	STATIC PRESSURE AT R.C.V.	30
SIZE	DESCRIPTION	PSI LOSS	
NA	SERVICE LINE	1 0.0	PSI
NA	WATER METER	2 0.0	PSI
1-1/2"	BACKFLOW PREVENTER	3 3.3	PSI
1-1/2"	BALL VALVES	4 0.5	PSI
1-1/2"	MASTER CONTROL VALVE	5 1.0	PSI
1-1/2"	120 FEET OF MAINLINE TYPE CLASS 315	6 1.2	PSI
NA	FEET OF MAINLINE TYPE	7 -	PSI
1"	REMOTE CONTROL VALVE	8 5.0	PSI
10%	LATERAL LINE LOSS	9 1.1	PSI
10%	FITTING LOSS	10 1.2	PSI
10	FT. OF ELEVATION CHANGE (P.O.C. TO HIGHEST HEAD)	11 4.3	PSI
TOTAL SYSTEM PRESSURE LOSS (SUM OF #1 THRU #11)		12 17.6	PSI
PRESSURE REQUIRED AT HEAD		1.21 13	PSI
TOTAL PRESSURE REQUIRED (SUM OF #12 AND # 13)		14 37.6	PSI
STATIC WATER PRESSURE (FROM ABOVE)		15 40.0	PSI
RESIDUAL PRESSURE (SUBTRACT # 14 FROM # 15)		16 2.4	PSI
SET PRV OR MCV AT (# 14 PLUS 10 PSI)		17 0.0	PSI
PRESSURE BOOST, IF REQUIRED (#14-#15 + 20 PSI)		18 0.0	PSI

LANDSCAPE QUANTITIES

LOW WATER USE LANDSCAPE AREA: 517 S.F.
 MEDIUM WATER USE LANDSCAPE AREA: 128 S.F.
 HIGH WATER USE LANDSCAPE AREA: 009 S.F.
 TOTAL WATER USE LANDSCAPE AREA: 654 S.F.

VALVE IDENTIFICATION

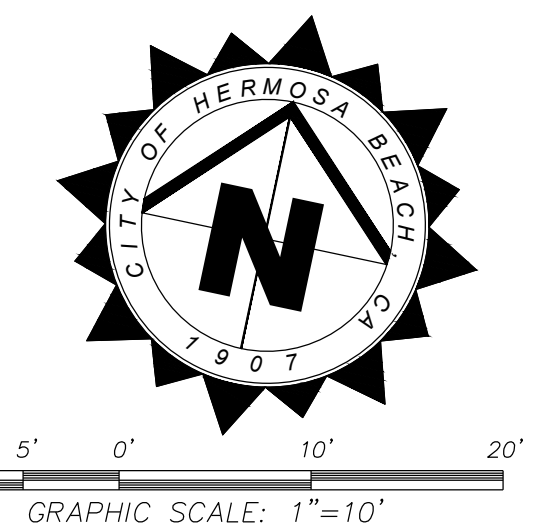


NOTES

- REFER TO SHEET L-4 FOR IRRIGATION LEGEND AND NOTES. L-5, L-6 & L-7 FOR DETAILS.
- REFER TO THIS SHEET FOR IRRIGATION CALCULATIONS.
- REFER TO SHEET L-7 FOR WATER SCUPPER.

SCH 40 PVC SLEEVING CHART

1 1/4" SLEEVE	1-4 WIRES	1/2" PIPE
1 1/2" SLEEVE	5-10 WIRES	3/4" PIPE
2" SLEEVE	11-20 WIRES	1" PIPE
2 1/2" SLEEVE	21-30 WIRES	1 1/4" PIPE
3" SLEEVE	31-40 WIRES	1 1/2" PIPE
4" SLEEVE	41-60 WIRES	2" PIPE
6" SLEEVE	61-99 WIRES	2 1/2"/3" PIPE
8" SLEEVE	100+ WIRES	4" PIPE
10" SLEEVE	N/A	6" PIPE



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nuvis
 LANDSCAPE ARCHITECTURE
 20250 SW ACACIA ST., SUITE 260
 NEWPORT BEACH, CA
 U.S.A. 92660
 PH: 714.754.7311

PLANS PREPARED BY:

 PERRY A CARDOZA 10-07-2024
 LANDSCAPE ARCHITECT, RLA DATE

CITY OF HERMOSA BEACH
 PUBLIC WORKS DEPARTMENT
 RECOMMENDED FOR PERMIT ISSUANCE:

 10/03/2024 DATE

PUBLIC IMPROVEMENT PLANS
PARKING LOT "D"
1331 MANHATTAN AVENUE
IRRIGATION PLAN & NOTES

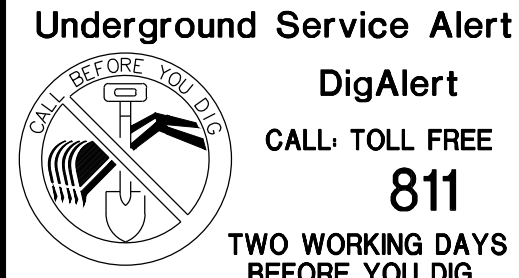



FILE NUMBER
 XXXXX-CIVIL
L3
 SHT. 18 OF 31

IRRIGATION MATERIAL LEGEND

SYMBOL	MANUFACTURER	MODEL NO. / DESCRIPTION	GPM	PSI	RADIUS	P/R (TRI.)	DETAIL
▼	RAIN BIRD	RWS-B-C-1402 ROOT WATERING SYSTEM W/ FABRIC SLEEVE. INSTALL 2 PER TREE, 0.5 GPM PER EACH BUBBLER, 1.0 GPM PER TREE	50 (1.0 TOTAL)	30	NA	NA	L5, J
C	RAINMASTER	DX3 CONTROLLER 120V CONTROLLER WITHIN NEW ELECTRICAL SERVICE AND CONTROLLER COMBINATION. INSTALL MINIMUM 14 GAGE FLOW SENSOR COMMUNICATION WIRES IN SCHEDULE 80 ELECTRICAL CONDUIT. SEE PLANS FOR ADDITIONAL INFORMATION. INSTALL WITH RAIN SENSOR RS500 AND RGVRS.					L5, G
⊗	N/A	POINT OF CONNECTION AT EXISTING METER LOCATIONS PER PLANS. FOR REFERENCE ONLY. VERIFY SIZE & LOCATION IN FIELD PRIOR TO START OF WORK. SEE PLAN NOTES FOR ADDITIONAL INFORMATION.					N/A
B	WILKINS	MODEL 975XL 1-1/2" REDUCED PRESSURE ZONE BACKFLOW PREVENTER SEE PLANS FOR ADDITIONAL INFORMATION. INSTALL WITHIN STAINLESS STEEL ENCLOSURE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.					L5, A
F	DATA INDUSTRIAL	BRONZE TEE, NYLON IMPELLER TYPE FLOW SENSOR MODEL OR APPROVED EQUAL. WIRE TO CONTROLLER PER MANUFACTURER'S RECOMMENDATIONS.					L5, D
V	GRISWOLD	MODEL 2000 1-1/2" NORMALLY CLOSED BRONZE MASTER VALVE OR APPROVED EQUAL. INSTALL THE MASTER VALVE INSIDE A JUMBO RECTANGULAR VALVE BOX.					L5, C
E	N/A	120 VOLT ELECTRICAL POWER FOR CONTROLLER, PROVIDED BY ELECTRICIAN, VERIFY ACTUAL LOCATION IN FIELD					N/A
✂	NIBCO	MODEL 759LF BRASS BALL VALVE INSTALLED IN VALVE BOX WITH LABELED BV AND TAGGED.					L5, B
[Symbol]	RAIN BIRD	XFS-CV-06-12 SUBSURFACE DRIP TUBING (COPPER EXTERIOR COLOR) WITH 0.60 GPH, PRESSURE COMPENSATING EMITTERS INTERNALLY INSTALLED IN THE DRIP TUBING AT 12" O.C. SPACING. DRIP TUBING SHALL BE EQUIPPED WITH COPPER CHIP TECHNOLOGY TO PREVENT ROOT INTRUSION INTO THE DRIP EMITTER. DRIP TUBING SHALL BE INSTALLED 2" BELOW FINISHED SOIL GRADE (NOT COUNTING MULCH) AND IN PARALLEL ROWS A MAXIMUM OF 16" ON CENTER. THE PERIMETER ROW OF DRIP TUBING SHALL BE INSTALLED A MAXIMUM OF 4" FROM THE EDGE OF ANY HARDSCAPE OR TURF EDGE. ALL SUBSEQUENT INTERIOR ROWS SHALL BE ADJUSTED TO PROVIDE AN EVEN SPACING ACROSS THE PLANTER WITHOUT EXCEEDING 16" MAXIMUM SPACING. INSTALL 8" PVC COATED GALVANIZED TUBING STAKES A MAXIMUM OF FIVE (5) FEET ON CENTER ALONG THE LENGTH OF THE TUBING. TUBING STAKES SHALL BE MODEL #GDT5140900 AS MANUFACTURED BY GPH IRRIGATION PRODUCTS (866) 582-9684. THE HATCH PATTERN SYMBOLS ON THE PLANS REPRESENT THE APPROXIMATE DIRECTION AND SPACING OF THE DRIP TUBING ROWS. SEE ACTUAL SPACING REQUIREMENTS ABOVE AND IN DETAILS.					L6, A,B,C,D,E, F,G,H,I,J,K
NO SYMBOL	RAIN BIRD	CONNECTION BETWEEN XFS DRIP TUBING AND PVC SUPPLY AND DISCHARGE HEADERS SHALL BE MADE USING XF DRIP LINE BARBED FITTINGS, SCH. 40 PVC THREADED FITTINGS, SCH. 80 NIPPLES AND FLEXIBLE NIPPLES. WHEN THE CONNECTION IS AT THE END RUN OF THE TUBING USE A 1/2" SCH. 40 PVC THREADED 90° ELBOW, A 1/2" X LENGTH AS REQUIRED SCH. 80 PVC THREADED NIPPLE, A 1/2" X 6" MIPT X FIPT FLEXIBLE NIPPLE, AND A XFF-MA-050 17mm BARB X 1/2" MIPT ADAPTER FITTING. WHEN THE CONNECTION IS IN THE MIDDLE OF THE TUBING RUN USE A 1/2" SCH. 40 PVC THREADED TEE FITTING, A 1/2" X LENGTH AS REQUIRED SCH. 80 PVC THREADED NIPPLE, A 1/2" X 6" MIPT X FIPT FLEXIBLE NIPPLE, AND TWO (2) XFF-MA-050 17mm BARB X 1/2" MIPT ADAPTERS. ALL END RUNS OF TUBING SHALL BE CONNECTED WITH A PVC DISCHARGE HEADER. FLEXIBLE NIPPLES SHALL BE MODEL #GFN050600 AS MANUFACTURED BY GPH IRRIGATION PRODUCTS (866) 582-9684.					L6, A,B,C,D,E, F,G,H,I,J,K
NO SYMBOL	RAIN BIRD	XF SERIES 17mm BARBED FITTINGS FOR ALL CONNECTIONS BETWEEN DRIP TUBING (TUBING-TO-TUBING ONLY). ALL BARBED DRIP TUBING FITTINGS SHALL BE INSTALLED USING A FITINS-TOOL FOR PROPER INSERTION OF THE FITTING INTO THE TUBING. NO HEATING OF TUBING SHALL BE ALLOWED.					L6, C
●●●●●●	AS APPROVED	PVC SUPPLY AND DISCHARGE HEADERS SHALL BE PVC LATERAL LINE PIPE (AS SHOWN BELOW), 1 1/4" MINIMUM SIZE WITH SCH. 40 PVC FITTINGS.					L6, L
F	NETAFIN	MODEL TLO50MFV-1 1/2" BALL VALVE FOR FLUSHING. INSTALL IN VALVE BOX PER DETAIL					L6, I
A	TORO	MODEL T-YD-500-34 AIR RELEASE VALVE. INSTALL IN VALVE BOX PER DETAIL					L7, A
●	RAIN BIRD	PESB-R (RCV) PLASTIC DRIP REMOTE CONTROL VALVE, SIZE AS SHOWN (1" AND 1 1/2" SIZES). INSTALL A DISC FILTER AND AN INLINE PRESSURE REGULATOR ON THE DOWNSTREAM SIDE OF EACH DRIP REMOTE CONTROL VALVE (DRCV). FOR 1" DRCV'S INSTALL A AMIAD COMPACT SERIES 1" (FILTER) DISC FILTER AND A SENNINGER 1" PMR-40-MF PRESSURE REGULATOR. FOR 1 1/2" DRCV'S INSTALL A AMIAD 1 1/2" COMPACT SERIES (FILTER) DISC FILTER AND A SENNINGER 1 1/4" PMR-40-HF PRESSURE REGULATOR. USE A 1 1/2" SCH. 40 PVC THREADED COUPLING, A 1 1/2" X 1 1/4" PVC THREADED REDUCER BUSHING, AND A 1 1/4" X 2" SCH. 80 PVC NIPPLE AS REQUIRED TO CONNECT THE 1 1/4" REGULATOR TO THE DOWNSTREAM SIDE OF THE 1 1/2" FILTER. INSTALL THE 1" DRCV ASSEMBLY INSIDE A JUMBO RECTANGULAR VALVE BOX. INSTALL THE 1 1/2" DRCV ASSEMBLY INSIDE A SUPER JUMBO RECTANGULAR VALVE BOX.					L5, F,H,K
●	RAIN BIRD	PESB-R (RCV) PLASTIC DRIP REMOTE CONTROL VALVE, SIZE AS SHOWN (1" AND 1 1/2" SIZES). INSTALL A DISC FILTER AND AN INLINE PRESSURE REGULATOR ON THE DOWNSTREAM SIDE OF EACH DRIP REMOTE CONTROL VALVE (DRCV). FOR 1" DRCV'S INSTALL A SENNINGER 1" PMR-40-MF PRESSURE REGULATOR. FOR 1 1/2" DRCV'S INSTALL A SENNINGER 1 1/4" PMR-40-HF PRESSURE REGULATOR. USE A 1 1/2" SCH. 40 PVC THREADED COUPLING, A 1 1/2" X 1 1/4" PVC THREADED REDUCER BUSHING, AND A 1 1/4" X 2" SCH. 80 PVC NIPPLE AS REQUIRED TO CONNECT THE 1 1/4" REGULATOR TO THE DOWNSTREAM SIDE OF THE 1 1/2" FILTER. INSTALL THE 1" DRCV ASSEMBLY INSIDE A JUMBO RECTANGULAR VALVE BOX. INSTALL THE 1 1/2" DRCV ASSEMBLY INSIDE A SUPER JUMBO RECTANGULAR VALVE BOX.					L6, A, L5, H,K
●	RAIN BIRD	44NP 3/4" QUICK COUPLER VALVE WITH LOCKING VINYL COVER. INSTALL INSIDE A 10" ROUND VALVE BOX.					L7, B
— — —	AS APPROVED	PVC PIPE - 1-1/2" SCH. 40, SOLVENT WELD WITH SCH. 40 PVC FITTINGS, AS LATERAL LINES INSTALLED 12" BELOW FINISHED GRADE.					L5, A,B,C,D,F, L6, A,J,K, L7, B
— — —	AS APPROVED	FOR REFERENCE ONLY. NEW PRESSURE MAINLINE FROM CISTERN. VERIFY SIZE AND LOCATION ON CIVIL PLANS PRIOR TO START OF WORK.					N/A
— — —	AS APPROVED	PVC PIPE 3/4" - 1 1/2" SCH. 40, SOLVENT WELD WITH SCH. 40 PVC FITTINGS, AS LATERAL LINES INSTALLED 12" BELOW FINISHED GRADE.					L5, F, J, L6, A,B,C,D,E,F, G,H,I,J,K,L, L7, A
— — —	AS APPROVED	PVC PIPE SCH. 40 AS SLEEVING, 2 TIMES THE DIAMETER OF PIPE OR WIRE BUNDLE CARRIED (2" MINIMUM SIZE) INSTALL ALL PIPE AND WIRE UNDER PAVING, HARDSCAPE, ETC. (OR AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE) INSIDE SLEEVES. SLEEVES UNDER PEDESTRIAN PAVING SHALL BE INSTALLED 24" BELOW FINISHED GRADE. ALL MAINLINE SLEEVES ARE TO BE CONSIDERED EXISTING VERIFY LOCATION IN FIELD. INSTALL MAINLINE SLEEVES 18" AWAY FROM EACH SIDE OF QUICK COUPLER VALVE.					L6, K
NO SYMBOL	AS APPROVED	ALL SOLVENT WELD CONNECTIONS FOR BOTH MAINLINE AND LATERAL LINE SHALL BE MADE USING THE TWO-STEP PROCESS OF PRIMER AND SOLVENT CEMENT. PRIMER SHALL BE LOW VOC "PURPLE PRIMER". MAINLINE SOLVENT CEMENT SHALL BE WELD-ON 711 PVC INDUSTRIAL GRADE CEMENT. LATERAL LINE SOLVENT CEMENT SHALL BE WELD-ON 711 PVC INDUSTRIAL GRADE CEMENT. USE DAUBERS SIZED AT LEAST ONE-HALF THE SIZE OF THE LARGEST PIPE BEING JOINED. ALL SOLVENT CEMENTED JOINTS SHALL BE MADE PER THE PIPE AND FITTING MANUFACTURER'S RECOMMENDATIONS.					N/A
NO SYMBOL	CARSON	MODEL 910 ROUND SPLICE BOX FOR LOW VOLTAGE CONTROL WIRE.					N/A
NO SYMBOL	3M	DBR/Y-6 DIRECT BURIAL (I.L. APPROVED) WATER-PROOF WIRE CONNECTORS FOR USE ON ALL WIRE SPLICES AND CONNECTIONS					L5, H
NO SYMBOL	CARSON	VALVE BOXES, SIZE PER EQUIPMENT LEGEND, WITH T-COVER LIDS AND CAPTIVE BOLT AND LOC-KIT. FOR ROUND AIR RELIEF VALVES USE MODEL 708, 10" ROUND SHALL BE MODEL 910, 12" STANDARD RECTANGULAR. SHALL BE MODEL 1419, 12" JUMBO RECT. SHALL BE MODEL 1220, SUPER JUMBO SHALL BE MODEL 1324, AND SUPER JUMBO XL SHALL BE MODEL 1730. FOR USE IN NON-VEHICULAR TRAFFIC SITUATIONS ONLY. DO NOT INSTALL IN CONCRETE OR ASPHALT.					L5, K
NO SYMBOL	N/A	FLOW SENSOR 1" SCHEDULE 40 PVC ELECTRICAL CONDUIT					N/A
NO SYMBOL	MATCO/NORCA	SCH. 40 PVC SWING CHECK VALVE FITTINGS. USED ON SLOPE TO RETAIN WATER. SWING CHECK VALVES ARE DESIGNED FOR HORIZONTAL INSTALLATIONS, BUT MAY BE INSTALLED IN AN UP-FLOW ONLY VERTICAL POSITION. CHECK VALVES MUST BE INSTALLED WITH THE VALVE'S FLOW ARROW POINTING IN THE DIRECTION OF THE FLOW. DO NOT INSTALL VALVE UPSIDE DOWN. FLOW VELOCITY SHOULD NOT EXCEED 5 FT./SEC. MINIMUM OPENING PRESSURE LESS THAN 0.5 PSI. USE SPEARS, NDS OR EQUAL.					N/A
NO SYMBOL	PAIGE ELECTRIC	THE CONTROLLER SHALL BE GROUNDED USING A #182000 5/8" X 8 FOOT COPPER CLAD GROUND ROD, A #182005 CAST BRONZE ROD CLAMP AND THE REQUIRED LENGTH OF #6AWG BARE, SINGLE STRAND COPPER GROUND WIRE. INSTALL INSIDE A 10" ROUND LOCKING VALVE BOX.					N/A
NO SYMBOL	CHRIST'S	FOR DOMESTIC SYSTEMS - INSTALL 3" WIDE BLUE I- POTABLE WATER DETECTABLE UNDERGROUND TRENCH MARKING TAPE SHALL BE RUN WITH ALL MAINLINE RUNS AND MUST BE INSTALLED AT LEAST 6" ABOVE TOP OF PIPE.					N/A
NO SYMBOL	CHRIST'S	ALL THREADED FITTINGS TO BE RAPPED WITH CORRECT AMOUNT OF TEFLON TAPE. 1/2" PTFE THREAD SEAL TAPE COMPLIANT WITH FEDERAL SPECIFICATION T-27730A.					N/A

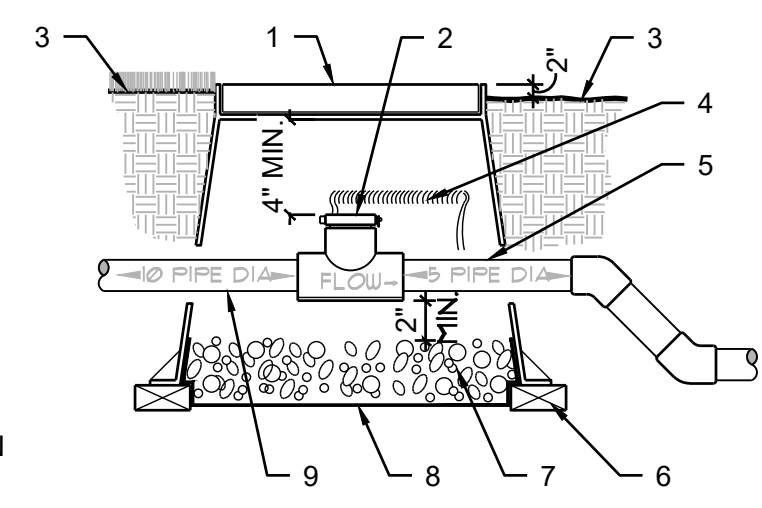
LANDSCAPE IRRIGATION WATER ANALYSIS				
PROJECT NAME:	Hermosa Beach parking lot D			
PROJECT ADDRESS:	1331 Manhattan Avenue			
POINT OF CONNECTION NUMBER: CONTROLLER NUMBER OR LETTER:	Existing A			
REFERENCE EVAPOTRANSPIRATION RATE (Eto):	42.0	INCHES / YEAR		
TOTAL OF HYDROZONE AREAS (HA):	645	SQUARE FEET		
TOTAL OF SPECIAL LANDSCAPE AREAS (SLA):	0	SQUARE FEET		
TOTAL LANDSCAPE AREAS (LA):	573	SQUARE FEET		
MAXIMUM APPLIED WATER ALLOWANCE:				
TOTAL MAWA = (Eto) x (0.62) x [(0.45x LA) + (1-0.45 x SLA)] =	6,714 GALLONS / YEAR			
ESTIMATED APPLIED WATER USED:				
TOTAL ETWU = (Eto) x (0.62) x [(PF x HA)/IE] + SLA =	5,526 GALLONS / YEAR			
THIS PROJECT USES LESS WATER THAN THE MAXIMUM APPLIED WATER ALLOWANCE				
HYDROZONE AREA (HA) CALCULATIONS FOR HYDROZONES:				
HYDROZONE DESCRIPTION	HYDROZONE AREA (HA)	PLANT FACTOR (PF)	ADJUSTED HA (PF x HA)	IRRIGATION EFFICIENCY (IE)
HYDROZONE #1: TREE PLANTING WITH BUBBLER	96	0.30	29	0.81
HYDROZONE #2: SHRUB PLANTING WITH DRIP TUBING	477	0.20	95	0.810
HYDROZONE #2: SHRUB PLANTING WITH DRIP TUBING		0.2	0	0.81
TOTAL OF ALL HYDROZONE AREAS (HA) ON THE PROJECT:	573			
CALCULATED AVERAGE IRRIGATION EFFICIENCY OF ALL HYDROZONE AREAS:	0.810			

A WATER EFFICIENT LANDSCAPE WORKSHEET

BENCH MARK: No. <u>QY11328</u> , ELEV. <u>15.323 FEET</u> DATE ADJ. <u>2005</u> , QUAD. <u>HAWTHORNE/TORRANCE</u>	 DigAlert CALL TOLL FREE 811 TWO WORKING DAYS BEFORE YOU DIG IMPORTANT NOTICE SECTION 4212/4217 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A PERMIT TO EXCAVATE WILL BE VALID.	REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>▲</td> <td></td> <td></td> </tr> <tr> <td>▲</td> <td></td> <td></td> </tr> </tbody> </table>	No.	DESCRIPTION	DATE	▲			▲			 20250 SW ACACIA ST., SUITE 260 NEWPORT BEACH, CA U.S.A. 92660 PH: 714.754.7311	PLANS PREPARED BY:  PERRY A CARDOZA 10-07-2024 LANDSCAPE ARCHITECT, RLA	CITY OF HERMOSA BEACH PUBLIC WORKS DEPARTMENT RECOMMENDED FOR PERMIT ISSUANCE:  10/03/2024	FILE NUMBER XXXXX-CIVIL <h2 style="text-align: center;">PARKING LOT "D"</h2> <h3 style="text-align: center;">1331 MANHATTAN AVENUE</h3> <h3 style="text-align: center;">IRRIGATION LEGEND & NOTES</h3>	SHT. 19 OF 31 <h1 style="text-align: center;">L4</h1>
No.	DESCRIPTION	DATE														
▲																
▲																

- NOTES:
1. FINISH GRADE: 1" BELOW FINISH SURFACE ADJACENT TO TURF AND 2" BELOW ADJACENT TO NON-TURF AREAS.
 2. INSTALL FLOW SENSOR AS PER THE MANUFACTURER'S RECOMMENDATIONS, WIRE TO IRRIGATION CONTROLLER.
 3. USE 45 DEGREE ELLS TO ACHIEVE MAINLINE DEPTH ON THE DOWN STREAM SIDE OF THE FLOW SENSOR.

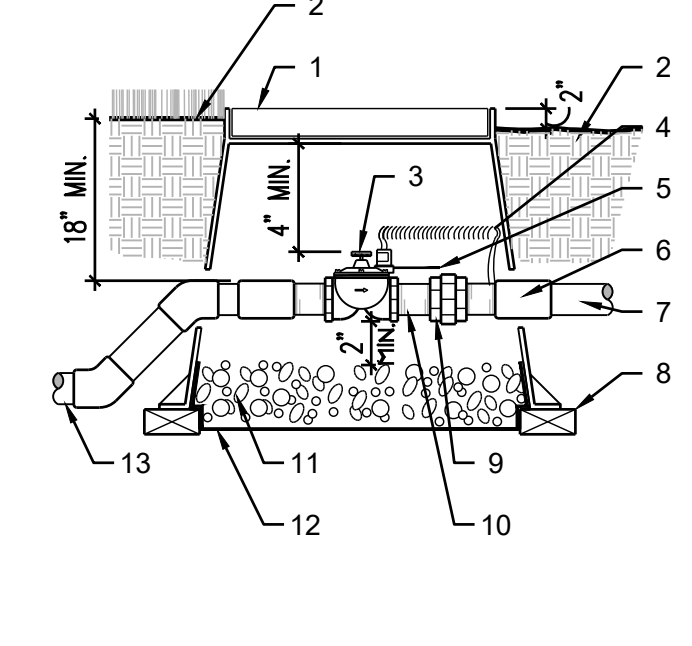
- 1 PLASTIC RECTANGULAR VALVE BOX WITH BOLT DOWN COVER, USE STAINLESS BOLT, NUT, AND WASHER. BOX TO BE PLACED AT RIGHT ANGLE TO HARDSCAPE EDGE. BRAND 'FS' ONTO LID, 1 1/2"-2" HIGH LETTERING
- 2 FLOW SENSOR, SEE LEGEND FOR SPECIFICATION
- 3 FINISH GRADE
- 4 24" WIRE LOOP
- 5 PVC MAINLINE PIPE
- 6 BRICK SUPPORTS
- 7 3/4" WASHED CRUSHED GRAVEL, 2 CUBIC FT.
- 8 LANDSCAPE FABRIC TO COVER BOTTOM AND ALL SIDES OF FLOW SENSOR BOX
- 9 PVC MAINLINE PIPE TO MASTER VALVE (NOT LESS THAN 10 PIPE DIAMETERS) PER SPECS AND PLAN



D FLOW SENSOR
SCALE: NTS

- NOTES:
1. USE 45 DEGREE ELLS TO ACHIEVE MAINLINE DEPTH FROM UP-STREAM SIDE OF THE MASTER VALVE ASSEMBLY.
 2. FINISH GRADE: 2" BELOW FINISHED SURFACE ADJACENT TO NON-TURF AREAS.

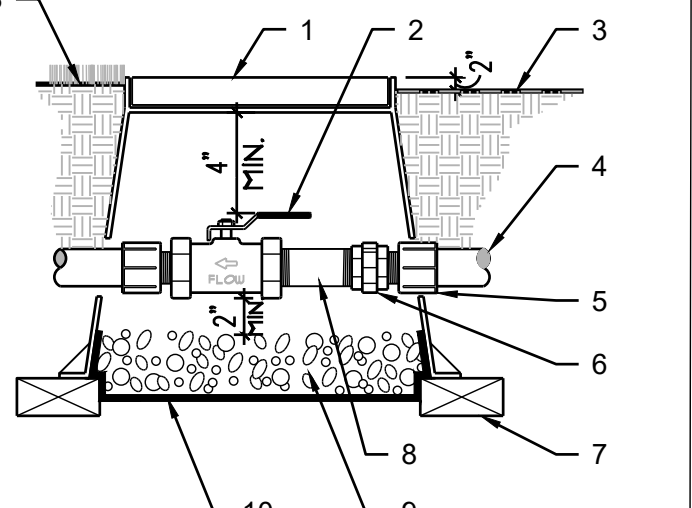
- 1 PLASTIC RECTANGULAR VALVE BOX WITH BOLT DOWN COVER, USE STAINLESS BOLT, NUT, AND WASHER BRAND "BV" ONTO LID, 1 1/2"-2" HIGH LETTERING
- 2 FINISH GRADE
- 3 MASTER CONTROL VALVE
- 4 24" WIRE LOOPS WITH WATERPROOF WIRE CONNECTORS
- 5 VALVE ID TAG
- 6 PVC SCH 40 FEMALE ADAPTER, 2 REQUIRED
- 7 PVC MAINLINE TO FLOW SENSOR, PIPE PER SPECS
- 8 BRICK SUPPORTS (4 TOTAL)
- 9 BRASS UNION
- 10 BRASS NIPPLE TYP.
- 11 3/4" CRUSHED GRAVEL, 2 CUBIC FEET
- 12 LANDSCAPE FABRIC TO COVER BOTTOM AND ALL SIDES OF VALVE BOX
- 13 PVC MAINLINE PIPE FROM BASKET STRAINER PER SPECS



C MASTER CONTROL VALVE
SCALE: 3/4"=1'-0"

- NOTES:
1. BOX TO BE INSTALLED TO ALLOW FOR PROPER OPERATION OF BALL VALVE.
 2. INSTALL BOX AT RIGHT ANGLE TO HARDSCAPE EDGE, INSTALL VALVE OFF-CENTER IN BOX TO ALLOW FOR HANDLE MOVEMENT.
 3. INSTALL VALVE BOX EXTENSIONS AS REQUIRED TO ACHIEVE PROPER VALVE INSTALLATION AT MAINLINE DEPTH.
 4. FINISH GRADE: 2" BELOW FINISHED SURFACE ADJACENT TO NON-TURF AREAS.

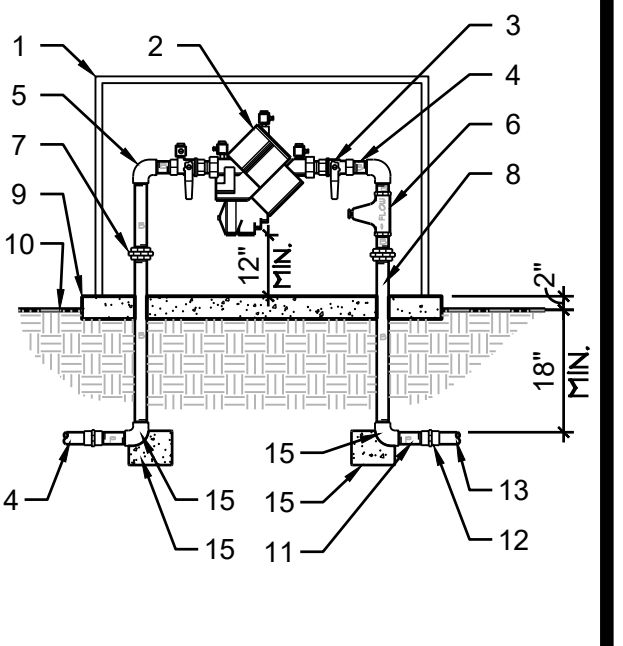
- 1 PLASTIC RECTANGULAR VALVE BOX WITH BOLT DOWN COVER, USE STAINLESS BOLT, NUT, AND WASHER BRAND "BV" ONTO LID, 1 1/2"-2" HIGH LETTERING
- 2 BALL VALVE, REFER TO LEGEND FOR SPECIFICATIONS
- 3 FINISH GRADE
- 4 PRESSURE SUPPLY LINE, DEPTH PER SPECIFICATIONS
- 5 PVC MALE ADAPTER
- 6 BRASS UNION
- 7 BRICK SUPPORTS (4 TOTAL)
- 8 BRASS NIPPLE
- 9 3/4" WASHED CRUSHED GRAVEL, 2 CUBIC FEET
- 10 LANDSCAPE FABRIC TO COVER BOTTOM AND ALL SIDES OF VALVE BOX



B BALL VALVE
SCALE: 1/2"=1'-0"

- NOTES:
1. IF WYE STRAINER OR PRESSURE REGULATOR IS SPECIFIED, INSTALL ON EITHER THE HORIZONTAL PIPING OR ON THE DOWNSTREAM LEG AS SPACE PERMITS.
 2. CONCRETE SLAB SHALL BE MINIMUM 4" THICK, 18" WIDE AND EXTEND AT LEAST 8" PAST THE BACKFLOW ASSEMBLY PIPING. IF BACKFLOW ENCLOSURE IS SPECIFIED IN THE LEGEND, THE CONCRETE SLAB SHALL BE THE SIZE REQUIRED BY THE MANUFACTURER.

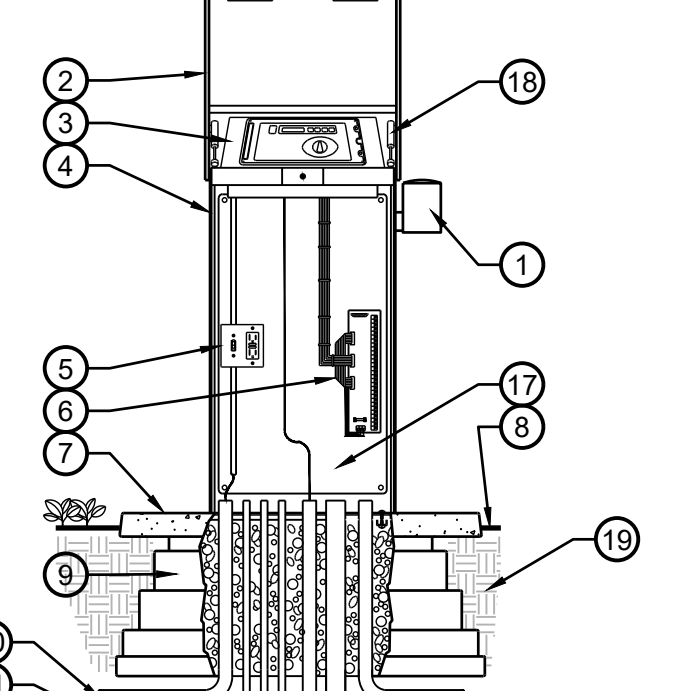
- 1 BACKFLOW ENCLOSURE
- 2 R/P DEVICE SEE LEGEND FOR SPECIFICATIONS
- 3 BRASS BALL VALVE (TYP.)
- 4 BRASS NIPPLES MINIMUM 4"
- 5 BRASS ELL, 4 REQUIRED
- 6 PRESSURE REGULATOR OR WYE STRAINER
- 7 BRASS UNION, 2 REQUIRED
- 8 BRASS RISERS, LENGTH AS REQUIRED
- 9 CONCRETE SLAB, SEE NOTES
- 10 FINISH GRADE
- 11 SCH 80 PVC NIPPLE 6" MINIMUM
- 12 SCH 80 PVC FEMALE ADAPTER
- 13 PVC MAINLINE TO MASTER VALVE
- 14 PVC MAINLINE FROM METER
- 15 12"x12"x12" CONCRETE THRUST BLOCK FOR 3" DIA. PIPE OR SMALLER



A 3" AND SMALLER REDUCED PRESSURE BACKFLOW
SCALE: 1/2"=1'-0"

- NOTES:
1. PILOT WIRES SHALL BE ONE COLOR FOR EACH CONTROLLER. COMMON WIRES SHALL BE WHITE WITH DIFFERENT COLOR STRIPES FOR EACH AUTOMATIC CONTROLLER.
 2. NO SPLICES SHALL BE MADE BETWEEN CONTROLLER AND REMOTE CONTROL VALVE UNDER 500 LINEAL FEET.
 3. CONTROL WIRING SEQUENCE CORRESPONDS TO OPERATING SEQUENCE OF REMOTE CONTROL VALVES AND AUTOMATIC SPRINKLER CONTROL UNIT STATION CONNECTION SEQUENCE. SEQUENCE SHOWN ON DETAIL IS FOR REFERENCE ONLY. SEE IRRIGATION PLAN FOR CORRECT VALVE SEQUENCE.

- 1 RAIN SENSOR INSIDE A STRONGBOX RGVRSR ENCLOSURE, WIRE TO CONTROLLER
- 2 STAINLESS STEEL FLIP TOP LID, SHOWN IN OPEN POSITION
- 3 CONTROLLER
- 4 STAINLESS STEEL 16" WIDE TOP-ENTRY CONTROLLER ENCLOSURE NEMA 3R RAINPROOF RATED CONTROLLER ENCLOSURE DIMENSIONS WHEN CLOSED: 38"Hx16"Wx15.5"D
- 5 POWER SWITCH AND RECEPTACLE
- 6 TERMINAL STRIP FOR REMOTE CONTROL VALVE WIRE CONNECTION
- 7 STRONGBOX QUICKPAD ENCLOSURE MOUNTING PAD WITH PREFORMED ALUMINUM PAD, PLASTIC BASE AND ALL STAINLESS STEEL HARDWARE
- 8 FINISHED GRADE
- 9 FILL BASE OF QUICKPAD WITH PEA GRAVEL TO TOP OF BASE UNIT
- 10 1 1/4" PVC CONDUIT / SWEEP FOR ELECT. SERVICE
- 11 1" PVC CONDUIT / SWEEP ET GAGE WIRES *
- 12 1" PVC CONDUIT / SWEEP FOR TELEPHONE LINE *
- 13 1" PVC CONDUIT / SWEEP FOR FLOW SENSOR / MCV WIRES *
- 14 1 1/4" PVC CONDUIT / SWEEP FOR COMMUNICATION CABLE TO OTHER CONTROLLERS *
- 15 3" PVC CONDUIT / SWEEP FOR CONTROL WIRES TO VALVES
- 16 1 1/4" PVC CONDUIT / SWEEP FOR GROUND WIRE
- 17 STAINLESS STEEL, U.L. LISTED, PREDRILLED, REMOVABLE BACKBOARD, REMOVABLE FRONT PANEL NOT SHOWN
- 18 DUAL HYDRAULIC PISTONS TO SUPPORT LID IN OPEN POSITION FOR ACCESS
- 19 COMPACTED SITE SOIL

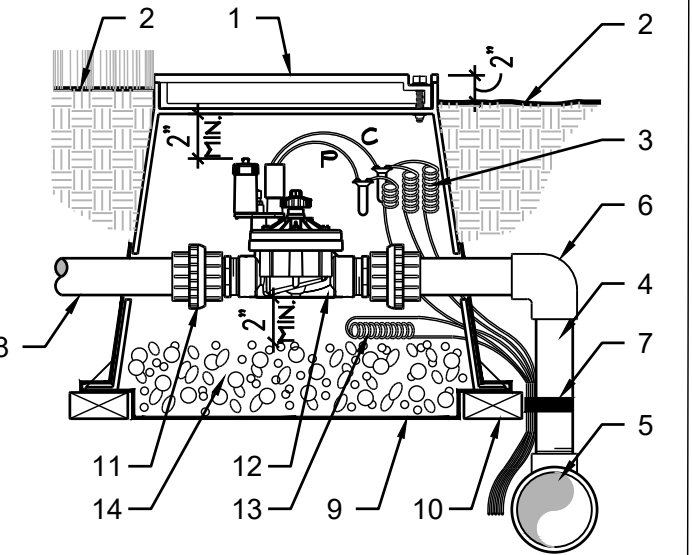


G PEDESTAL MOUNTED CONTROLLER
SCALE: NTS

CONDUITS LISTED WITH AN * SHALL ONLY BE INSTALLED IF EQUIPMENT IS SPECIFIED.

- NOTES:
1. FINISH GRADE: 2" BELOW FINISHED SURFACE ADJACENT TO NON-TURF AREAS.

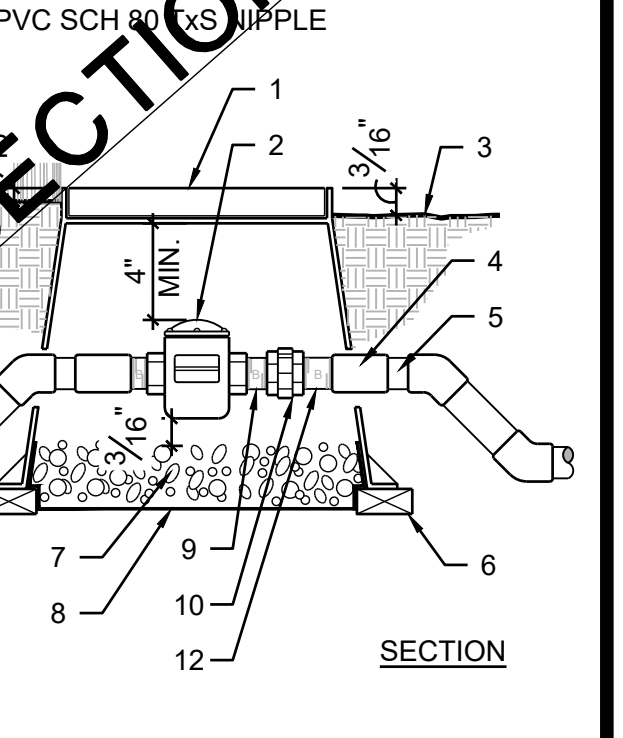
- 1 PLASTIC RECTANGULAR VALVE BOX WITH T-COVER AND CAPTIVE STAINLESS STEEL BOLT AND LOC-KIT. INSTALL BOX AT RIGHT ANGLE TO ADJACENT HARDSCAPE EDGE. LABEL "RCV" AND CONTROL STATION NUMBER ONTO LID
- 2 FINISH SURFACE - 2"
- 3 24" WIRE LOOPS WITH WATERPROOF WIRE CONNECTORS
- 4 SCH.40 PVC PIPE OR SCH.80 T.O.E. NIPPLE WITH D.I. SERVICE TEE
- 5 SCH.80 PVC SLIP TEE OR LEEMCO DUCTILE IRON BBT SERVICE TEE FOR USE ON BELL AND GASKET MAINLINE PIPER
- 6 SCH.80 PVC SLIP 90° ELL
- 7 TAPE WIRES TO PIPE
- 8 SCH.40 PVC PIPE, SIZE PER RCV, TYP.
- 9 LANDSCAPE FABRIC TO COVER BOTTOM AND ALL SIDES OF VALVE BOX
- 10 BRICK SUPPORTS (4 TOTAL)
- 11 LASCO #896 PVC UNION SLIP X MIPT, SIZE PER RCV, TWO (2) REQUIRED FOR ASSEMBLY
- 12 ELECTRIC REMOTE CONTROL VALVE
- 13 SPARE CONTROL WIRE LOOP 48" LENGTH INTO EACH RCV BOX
- 14 3/4" CRUSHED GRAVEL, 2 CUBIC FEET



F REMOTE CONTROL VALVE ASSEMBLY
SCALE: 1"=1'-0"

- NOTES:
1. FINISH GRADE: 1" BELOW FINISH SURFACE ADJACENT TO TURF AND 2" BELOW ADJACENT TO NON-TURF AREAS.
 2. USE 45 DEGREE ELLS TO ACHIEVE MAINLINE DEPTH FROM UP-STREAM SIDE OF THE BASKET STRAINER ASSEMBLY.

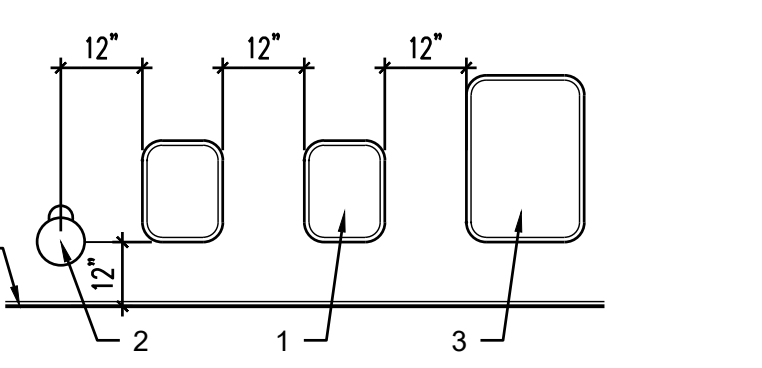
- 1 PLASTIC RECTANGULAR VALVE BOX WITH BOLT DOWN COVER, USE STAINLESS BOLT, NUT AND WASHER BOX TO BE PLACED AT RIGHT ANGLE TO HARDSCAPE EDGE. BRAND "BS" ONTO LID, 1 1/2"-2" HIGH LETTERING
- 2 BASKET STRAINER, REFER TO LEGEND FOR SPECIFICATIONS
- 3 FINISH GRADE
- 4 PVC SCH 40 FEMALE ADAPTER, TYP. PER SPECS
- 5 PVC MAINLINE TO MASTER VALVE PER SPECS
- 6 BRICK SUPPORTS
- 7 3/4" WASHED CRUSHED GRAVEL, 2 CUBIC FEET
- 8 LANDSCAPE FABRIC TO COVER BOTTOM AND ALL SIDES OF VALVE BOX
- 9 BRASS NIPPLE TYP.
- 10 BRASS UNION
- 11 PVC MAINLINE FROM M.C.
- 12 PVC SCH 80 XS NIPPLE



E BASKET STRAINER
SCALE: NTS

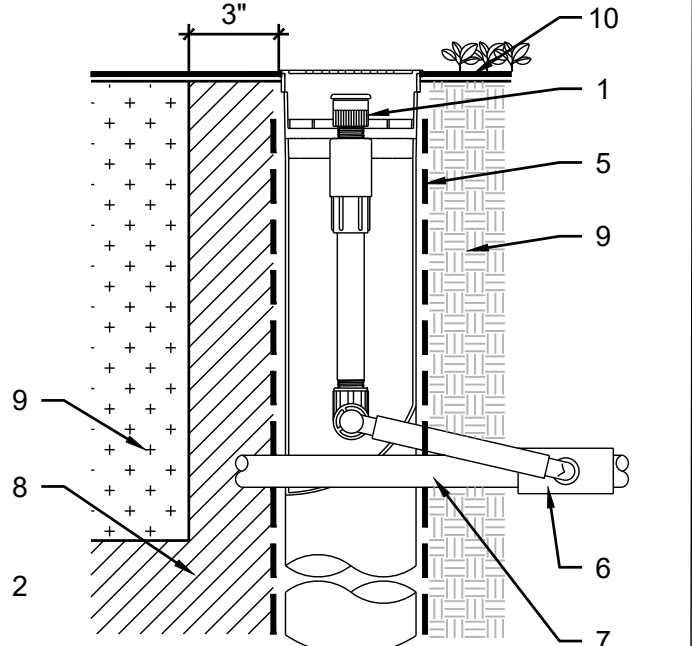
- NOTES:
1. CENTER VALVE BOX OVER REMOTE CONTROL VALVE TO FACILITATE SERVICING VALVE.
 2. SET BOXES 2" ABOVE FINISH GRADE OR MULCH COVER IN GROUNDCOVER/SHRUB AREA AND 1" ABOVE FINISH GRADE IN TURF AREA.
 3. SET RVC AND VALVE BOX ASSEMBLY IN GROUNDCOVER/SHRUB AREA WHERE POSSIBLE. INSTALL IN LAWN ONLY IF GROUNDCOVER DOES NOT EXIST ADJACENT TO LAWN.
 4. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE.
 5. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOXES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.
 6. BRAND VALVE BOX WITH CONTROLLER LETTER AND VALVE NUMBER USING 1 1/2"-2" LETTERING

- 1 TYPICAL 16"x21" RECTANGULAR VALVE BOX
- 2 TYPICAL QUICK COUPLING VALVE
- 3 TYPICAL 19"x26" OR LARGER VALVE BOX
- 4 EDGE OF WALK, FENCE, CURB, ETC.



K VALVE BOX INSTALLATION
SCALE: 1/2"=1'-0"

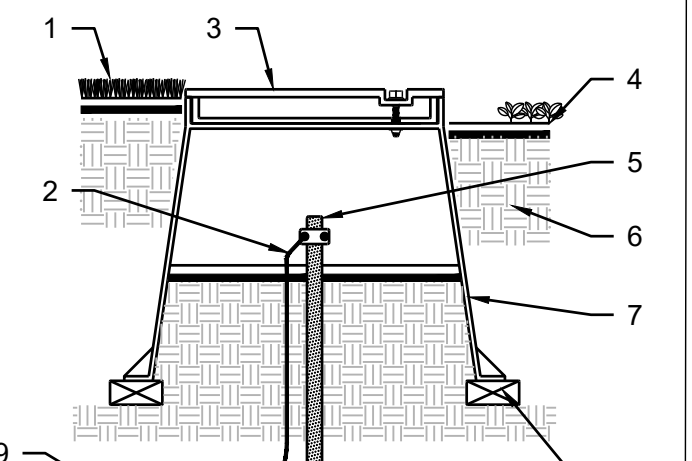
- 1 ROOT WATERING SYSTEM ASSEMBLY: RAINBIRD RWS-B-C-1402 4" DIA. X 36" LENGTH (INCLUDES 1402 0.50GPM BUBBLER W/ RISER, CHECK VALVE, GRATE, SWING ASSEMBLY, 1/2" MALE NPT INLET AND BASKET CANISTER)
- 2 PVC LATERAL LINE PIPE. SEE SPECIFICATIONS FOR TYPE AND DEPTH REQUIREMENTS
- 3 ROOT WATERING SYSTEM PER LEGEND
- 4 ROOT BALL OF TREE
- 5 RWS SAND SOCK (RWS-SOCK)
- 6 PVC SCH. 40 TEE OR ELL
- 7 PVC LATERAL LINE
- 8 AMMENDED BACKFILL
- 9 NATIVE SOIL
- 10 FINISH GRADE



J TREE BUBBLER
SCALE: NTS

- NOTES:
1. A MINIMUM OF ONE GROUND ROD SHALL BE INSTALLED PER CONTROLLER. SEE LEGEND, DETAILS AND SPECIFICATIONS FOR ADDITIONAL GROUNDING REQUIREMENTS.

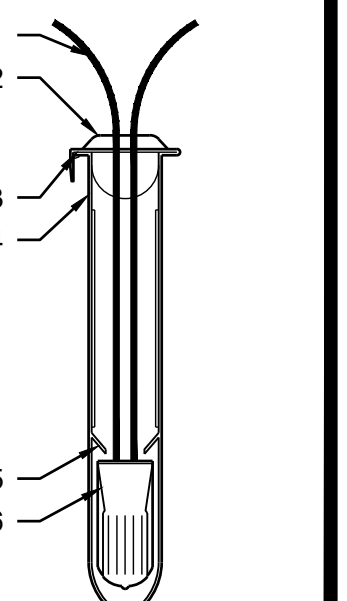
- 1 FINISH GRADE IN TURF AREAS
- 2 BARE COPPER GROUND WIRE (#6) CONNECT TO ROD W/ BRASS CLAMP OR "CAD WELD" IN PLACE
- 3 PLASTIC 10" ROUND VALVE BOX WITH A BLACK COLORED T-COVER AND CAPTIVE STAINLESS STEEL BOLT AND LOC-KIT. HEAT BRAND "GRD" ONTO LID
- 4 FINISHED GRADE IN SHRUB AREAS
- 5 5/8"x96" COPPER CLAD GROUND ROD INSTALLED INTO COMPACTED SITE SOIL PRIOR TO SETTING BOX
- 6 NATIVE OR UNDISTURBED SITE SOIL
- 7 FILL 1/2 OF VALVE BOX WITH COMPACTED SITE SOIL
- 8 BRICK SUPPORTS, 3 REQUIRED
- 9 BARE #6 COPPER GROUND WIRE FROM CONTROLLER (8' MIN.)



I CONTROLLER GROUNDING
SCALE: NTS

- NOTES:
1. KIT SHALL INCLUDE A SCOTCHLOK Y SPRING CONNECTOR, A POLYPROPYLENE TUBE AND A WATERPROOF SEALING GEL. TUBE SHALL BE SUPPLIED PRE-FILLED WITH GEL.
 2. DIRECT BURY SPLICE KIT SHALL BE USED TO ELECTRICALLY CONNECT 2-3 #14 OR TWO (2) #12 PRE-STRIPPED COPPER WIRES. LARGER WIRES OR GREATER QUANTITIES OF WIRES SHALL REQUIRE A LARGER APPROVED WIRE CONNECTION.

- 1 LOW VOLTAGE WIRES, THREE (3) MAXIMUM
- 2 WIRES PASS THROUGH GROOVES IN TUBE LID TO ALLOW LID TO CLOSE
- 3 CLOSE TUBE LID AFTER WIRE IS INSERTED INTO TUBE
- 4 POLY TUBE PRE-FILLED WITH WATERPROOF GEL
- 5 LOCK TABS PREVENTS WIRE REMOVAL ONCE CONNECTOR IS INSERTED
- 6 SCOTCHLOK ELECTRICAL SPRING CONNECTOR WIRES SHALL BE PRE-STRIPPED OF 1/2" OF THE INSULATION PRIOR TO INSERTION INTO THE CONNECTOR. TWIST CONNECTOR ONTO WIRES TO SEAT FIRMLY. SCOTCHLOK CONNECTOR AND WIRES INSERTED INTO TUBE UNTIL THE CONNECTOR PASSES LOCK TABS



H TYP. WIRE CONNECTION
SCALE: NTS

BENCH MARK:

No. QY11328, ELEV. 15.323 FEET

DATE ADJ. 2005, QUAD. HAWTHORNE/TORRANCE

Underground Service Alert

DigAlert

CALL TOLL FREE 811

TWO WORKING DAYS BEFORE YOU DIG

IMPORTANT NOTICE

SECTION 4212/4217 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A PERMIT TO EXCAVATE WILL BE VALID.

REVISIONS		
No.	DESCRIPTION	DATE

nuvis

LANDSCAPE ARCHITECTURE

20250 SW ACACIA ST., SUITE 260

NEWPORT BEACH, CA

U.S.A. 92660

PH: 714.754.7311

PLANS PREPARED BY:

PERRY A CARDOZA

10-07-2024

LANDSCAPE ARCHITECT, RLA

CITY OF HERMOSA BEACH

PUBLIC WORKS DEPARTMENT

RECOMMENDED FOR PERMIT ISSUANCE:

J. Okami

10/03/2024

FILE NUMBER: XXXXX-CIVIL

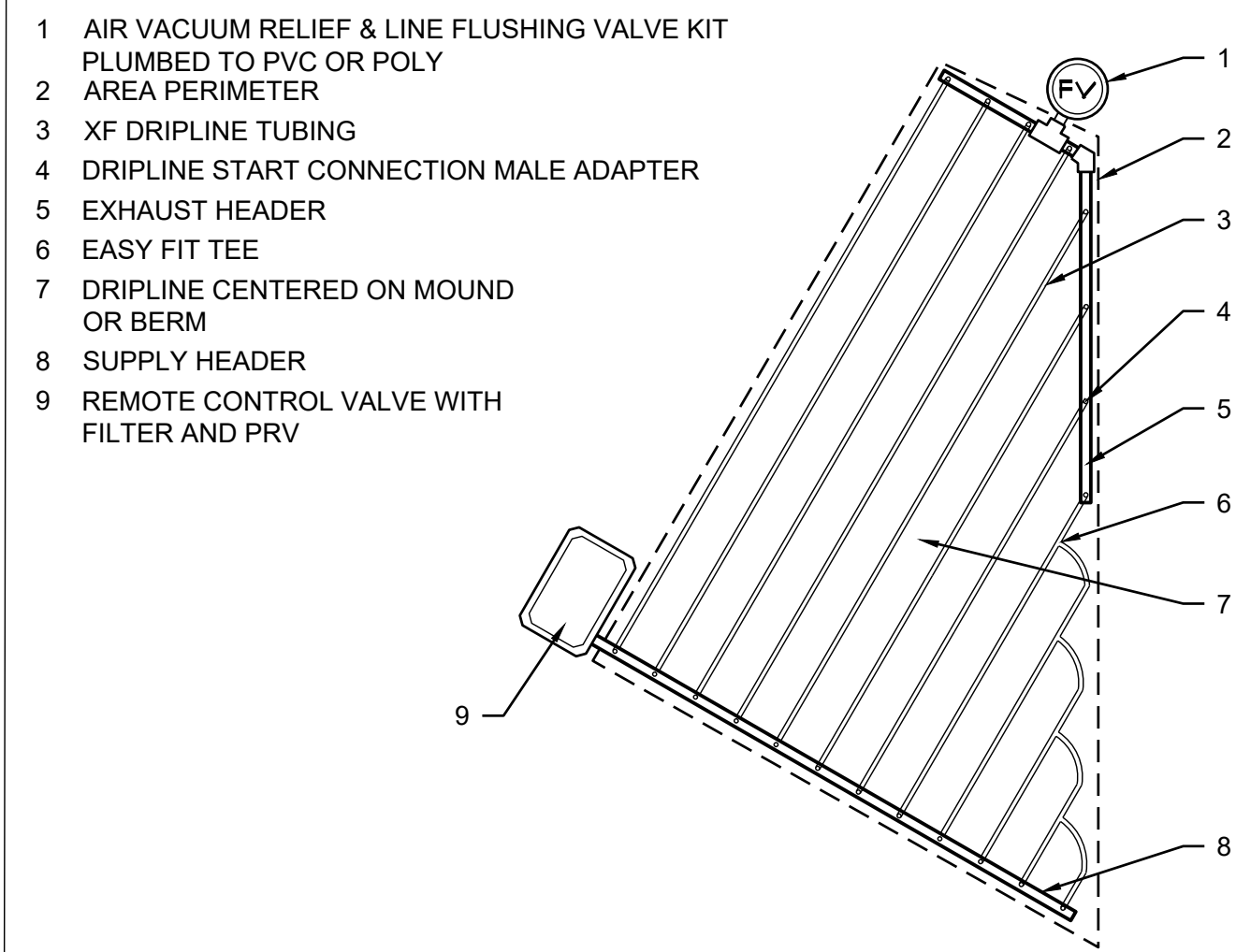
PARKING LOT "D"

1331 MANHATTAN AVENUE

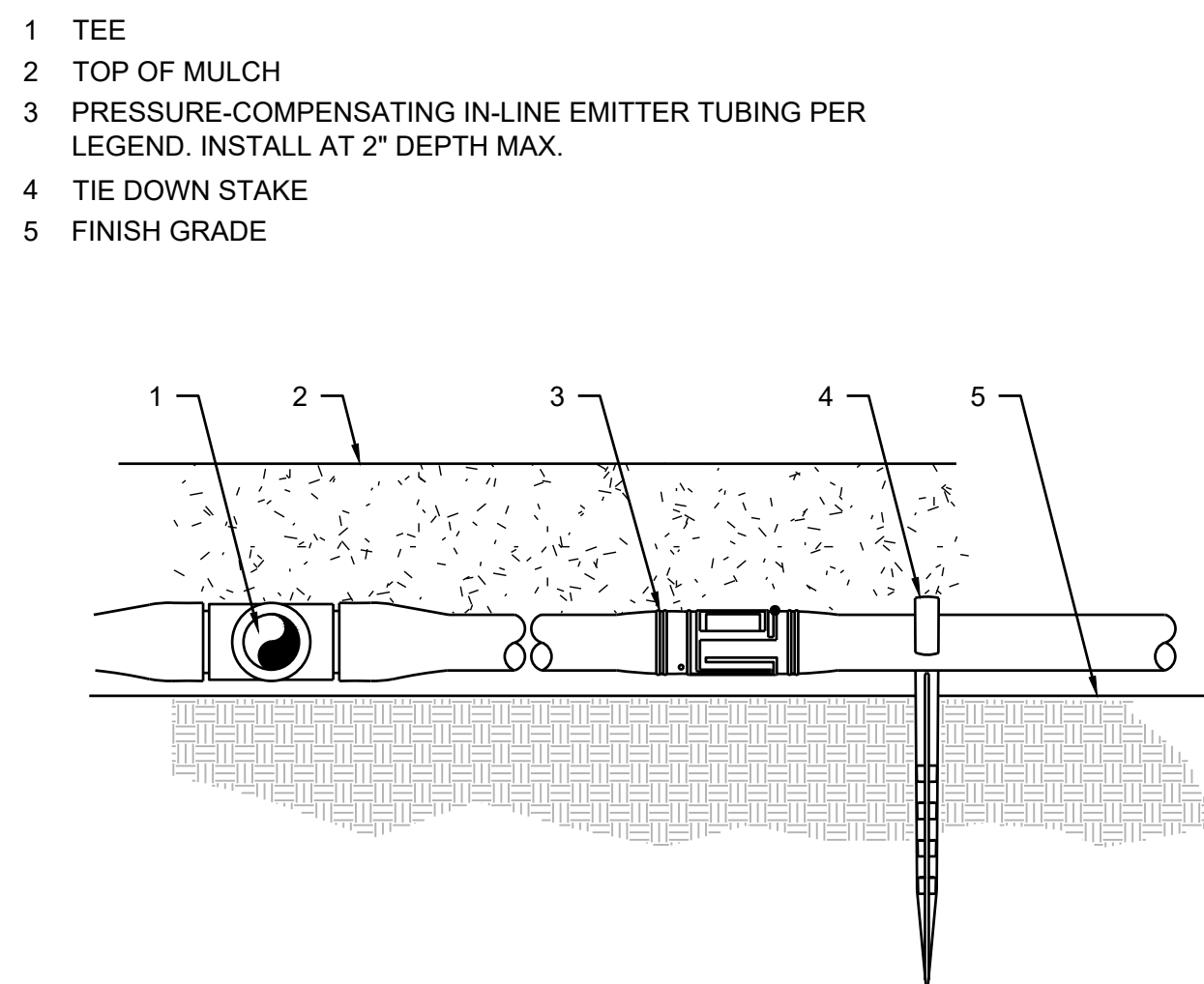
IRRIGATION DETAILS

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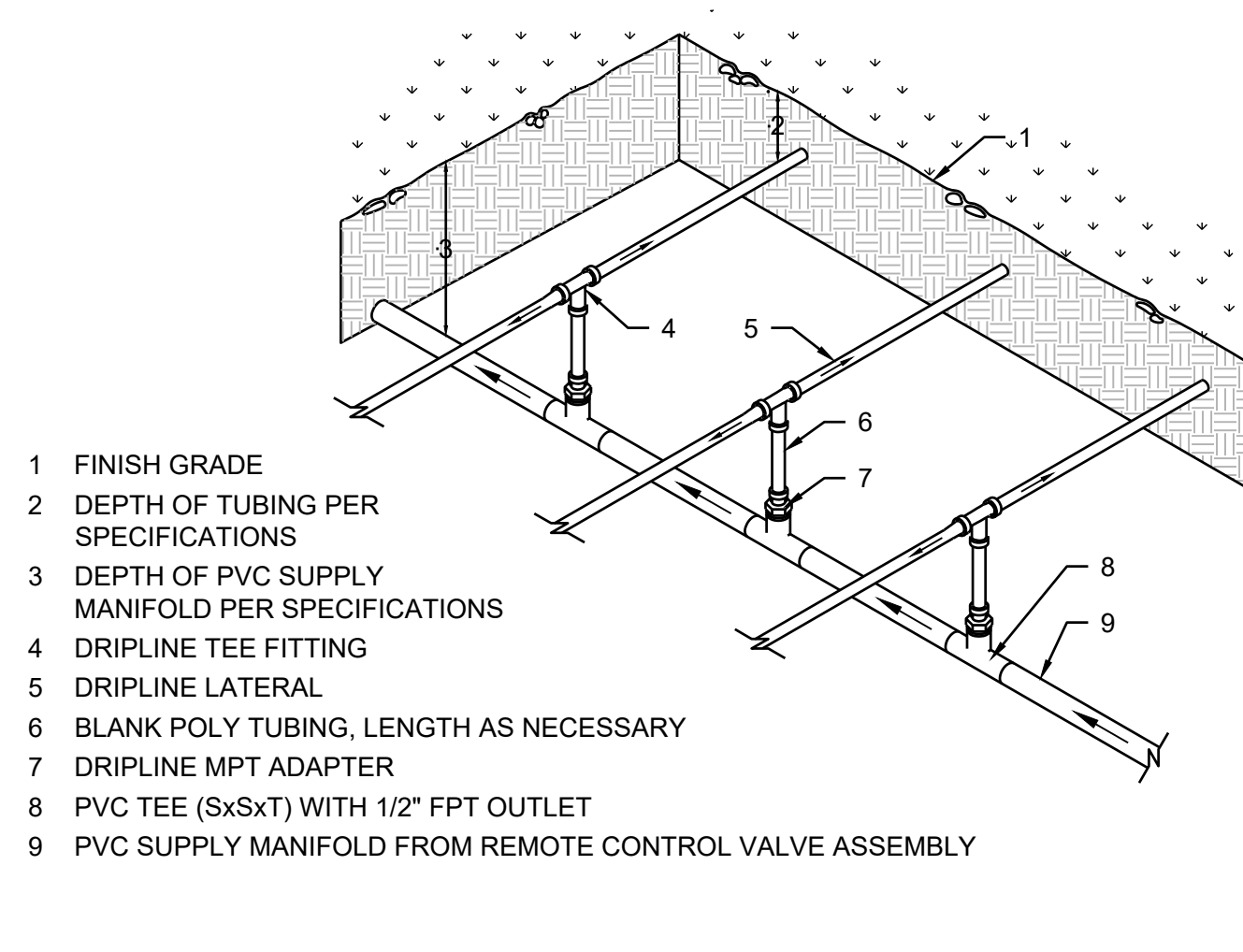
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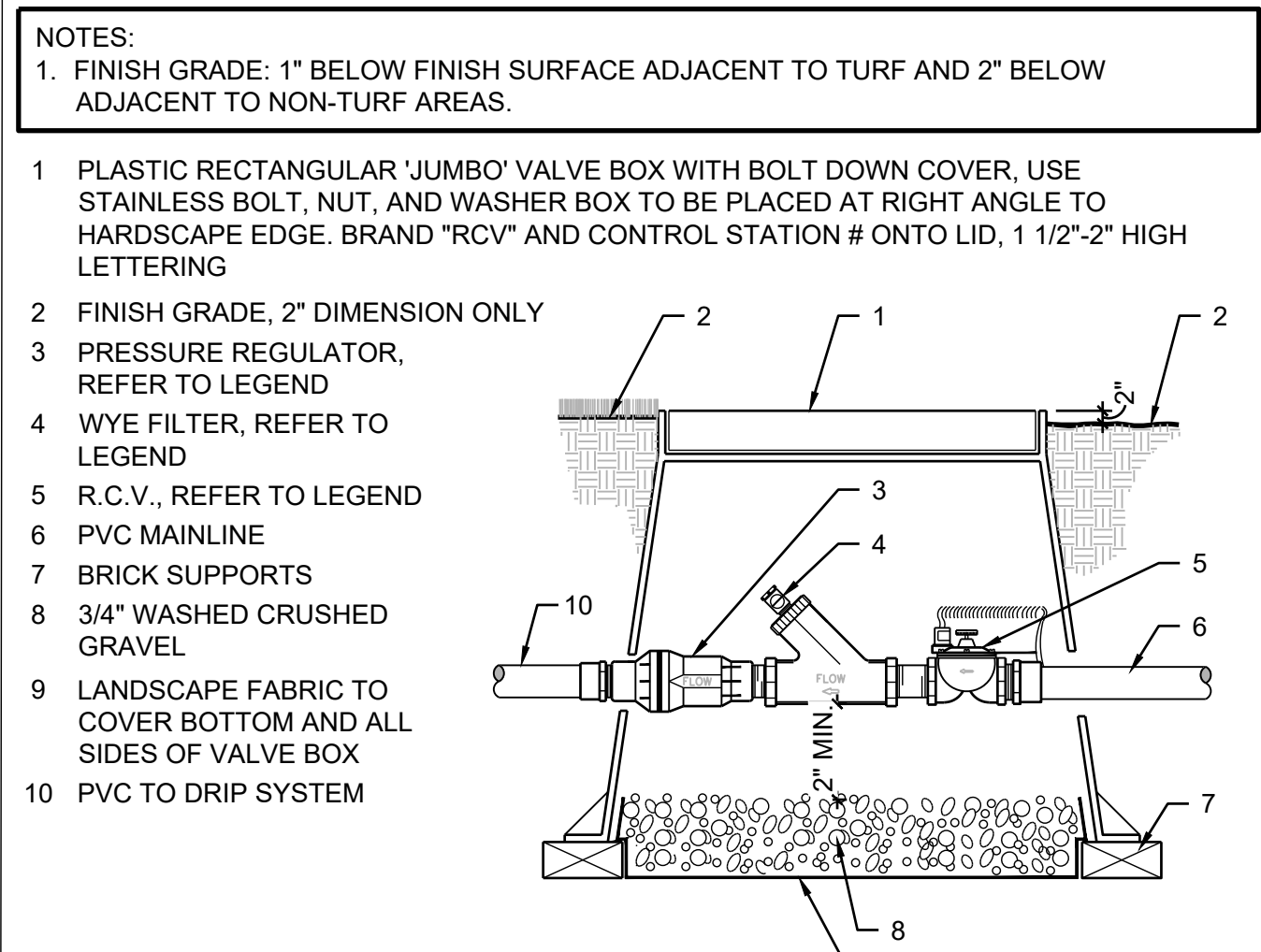
D DRIPLINE LAYOUT
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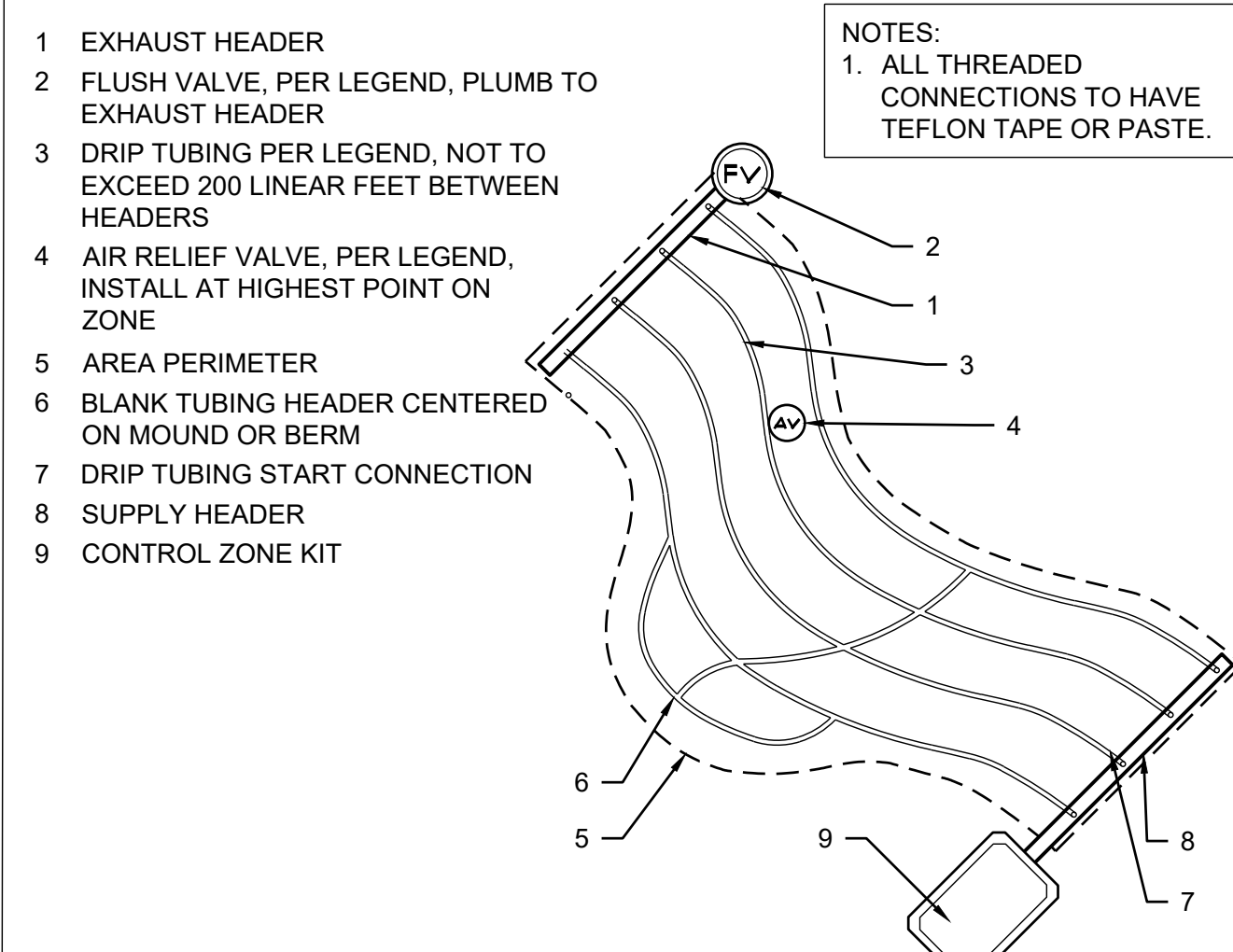
C DRIPLINE INSTALLATION
SCALE: NTS



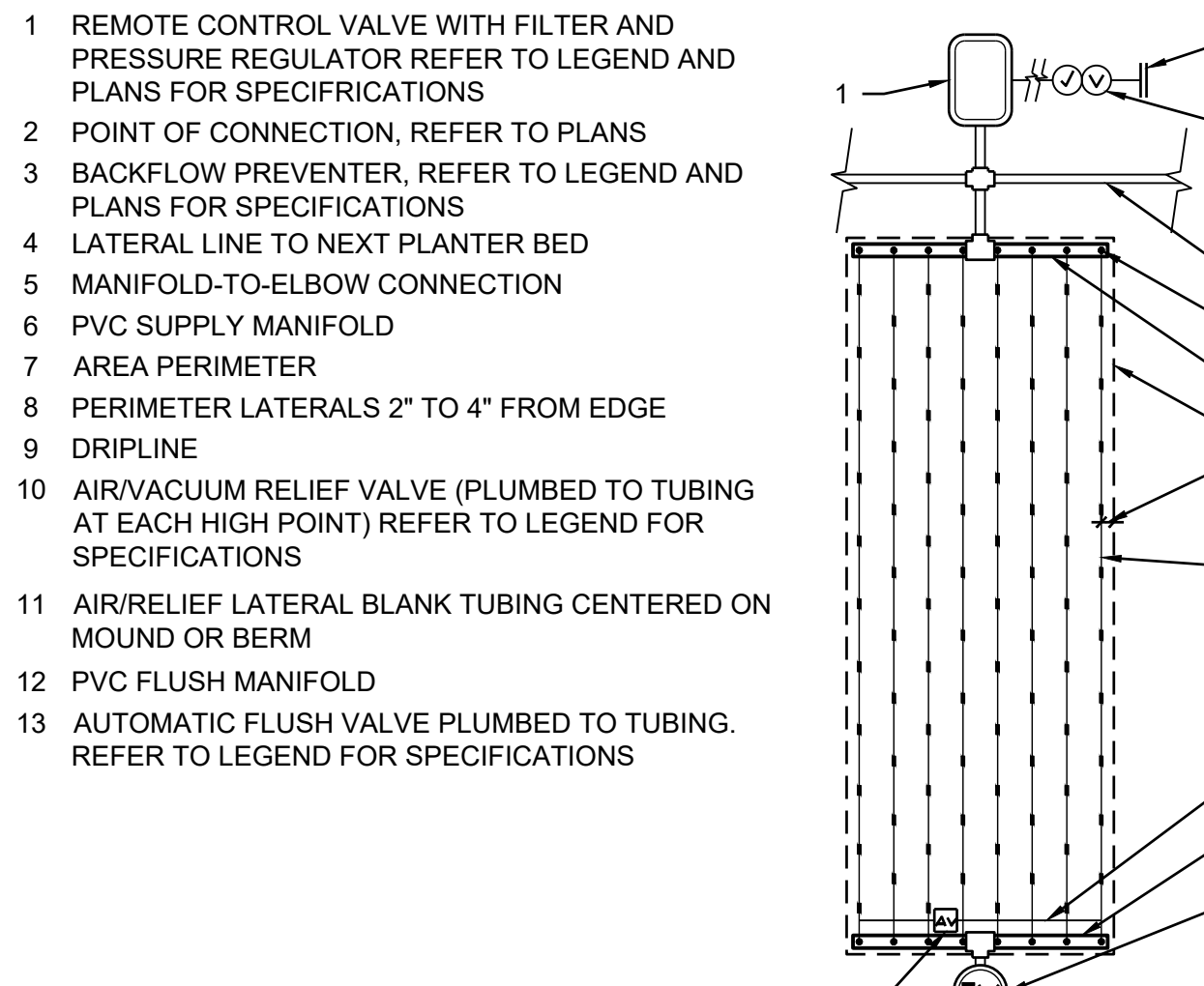
B CENTER FEED MANIFOLD
SCALE: NTS



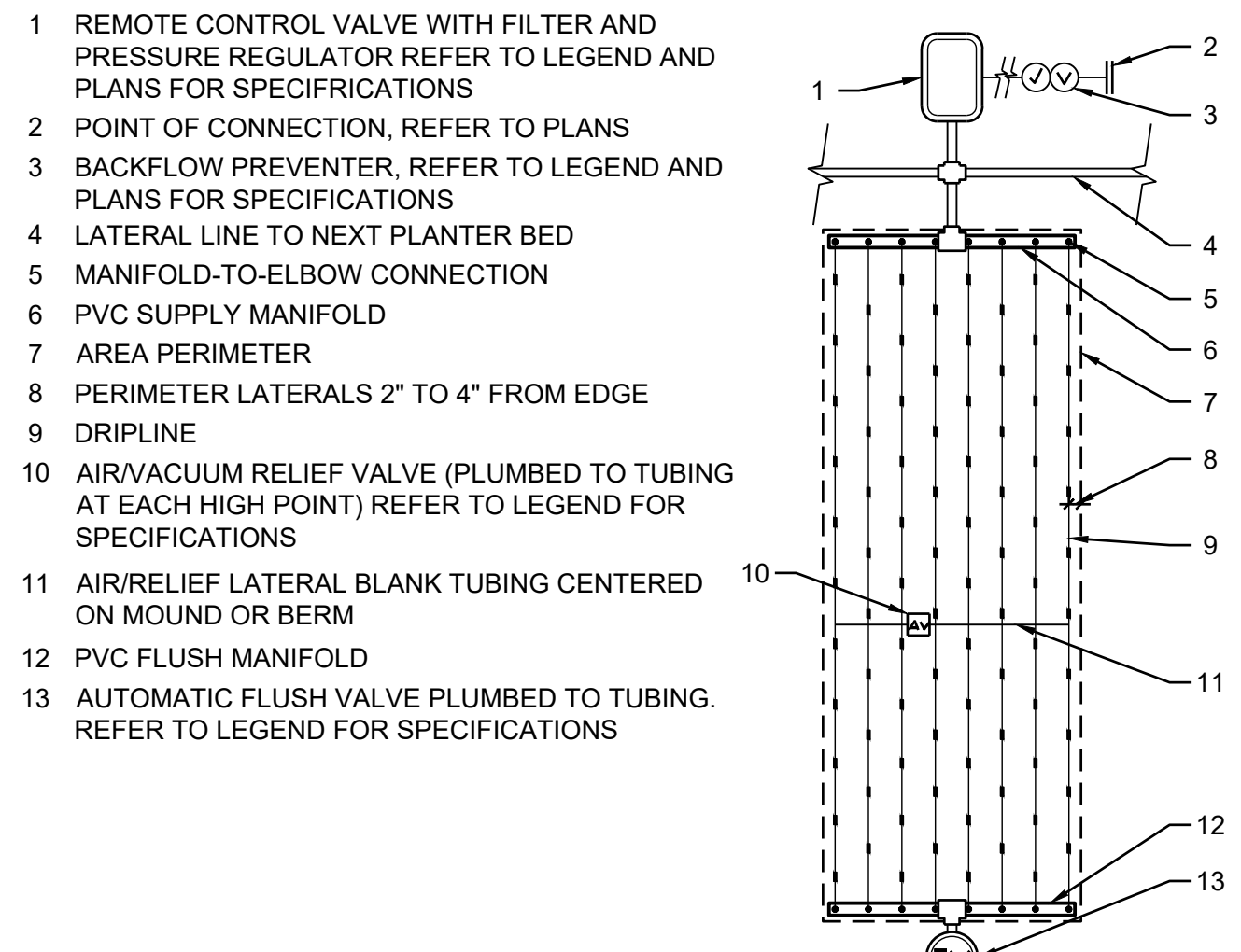
A DRIP RVC ASSEMBLY
SCALE: NTS



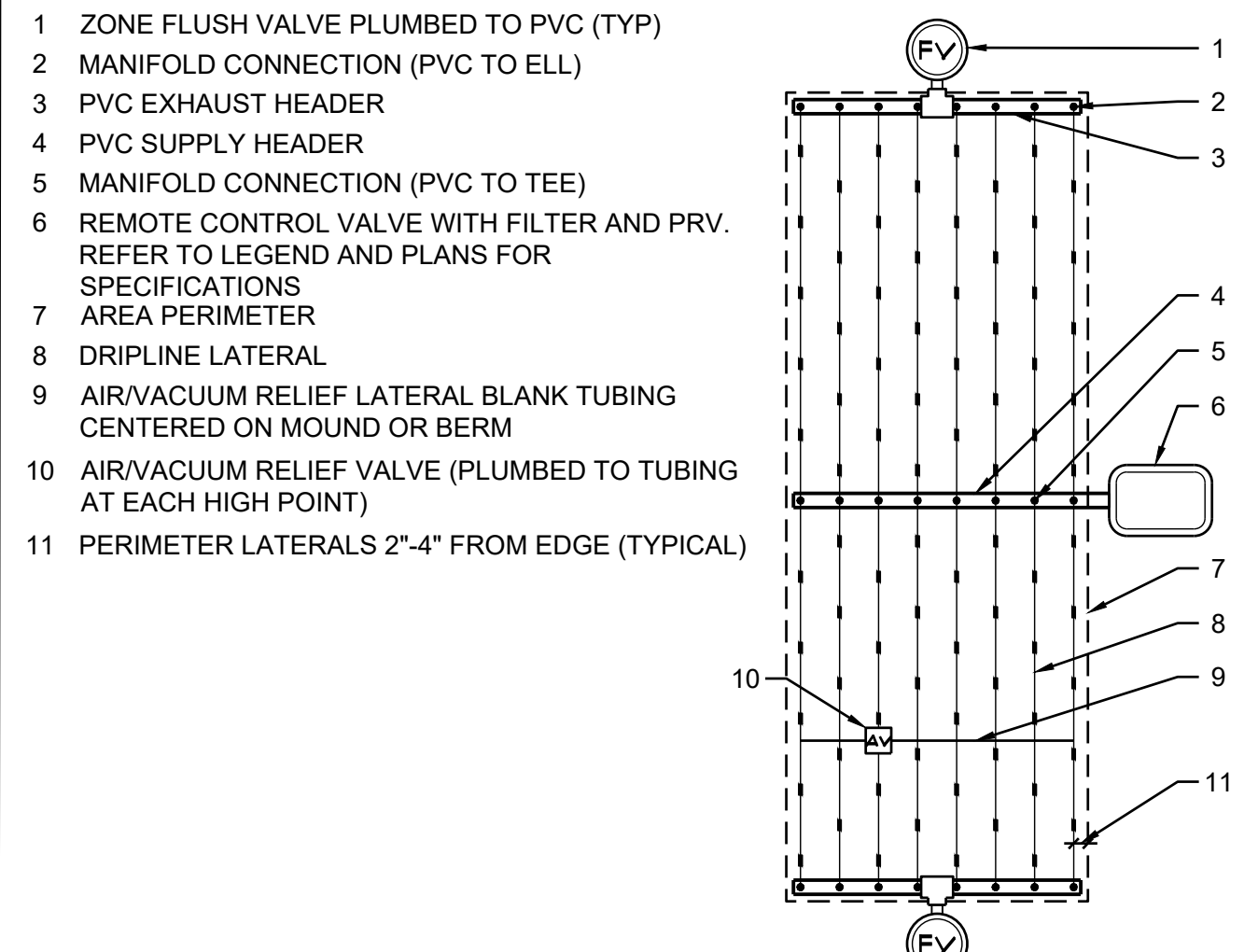
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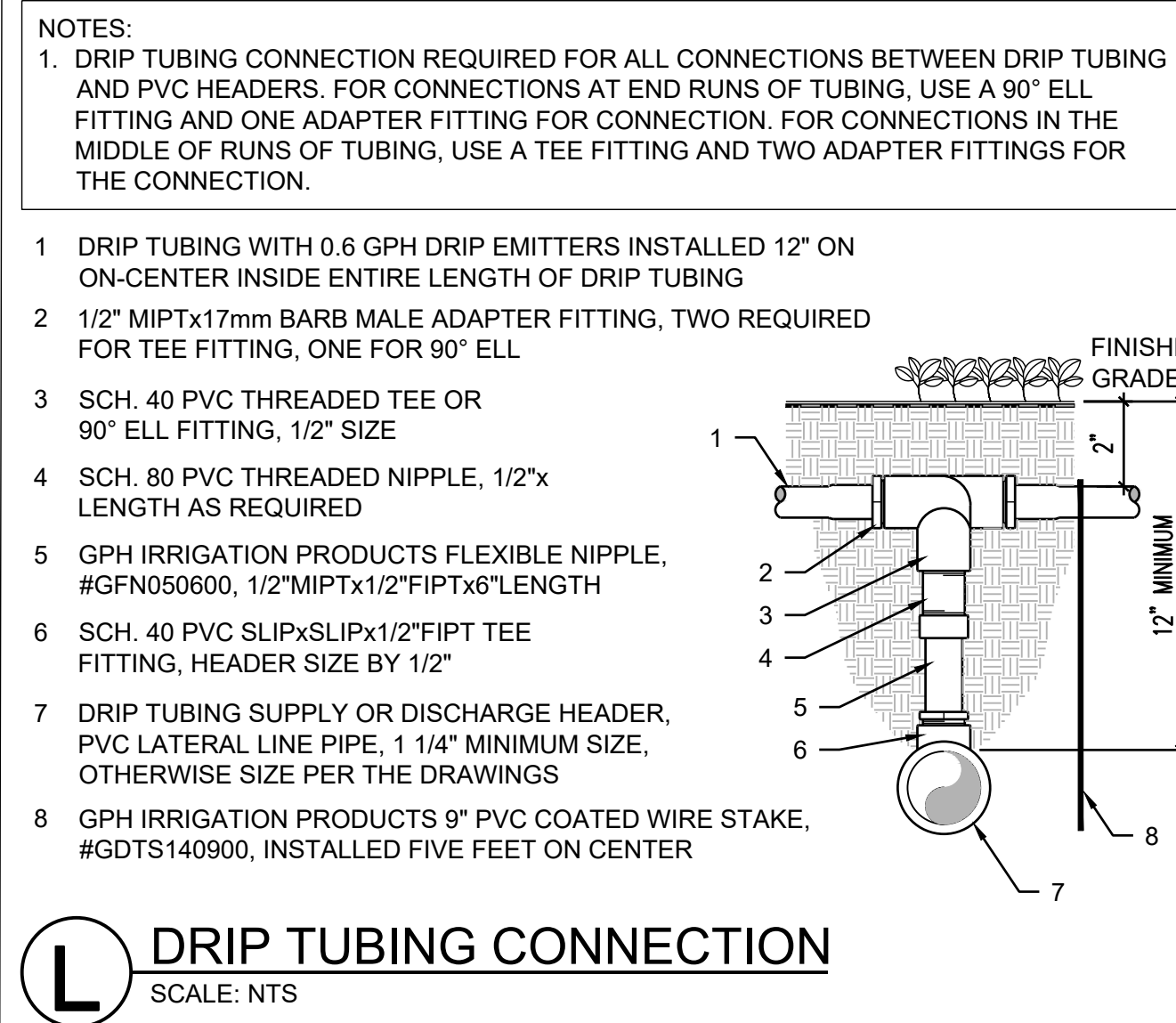
G END FEED INLINE DRIP
SCALE: NTS



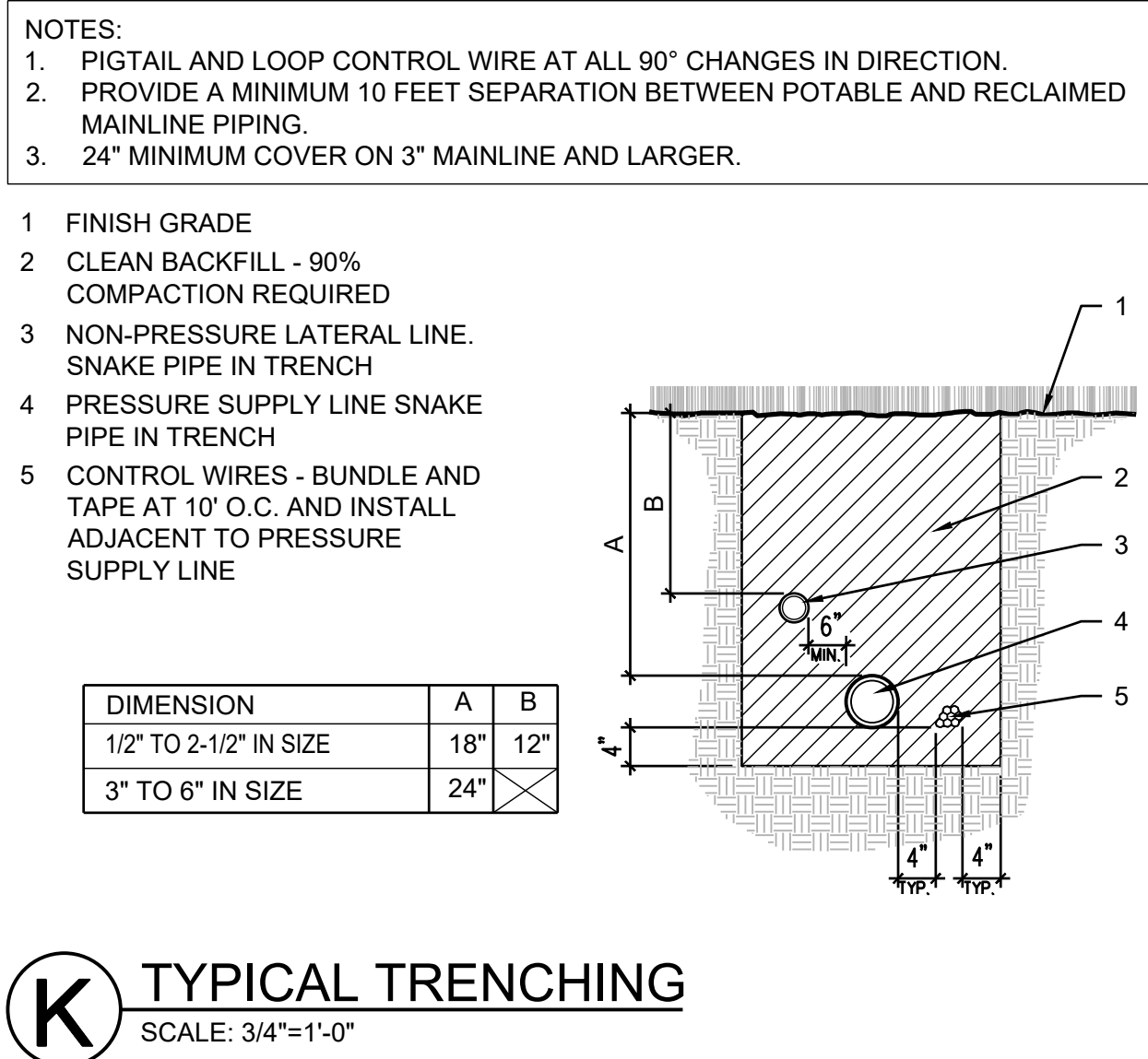
F DRIPLINE LAYOUT
SCALE: NTS



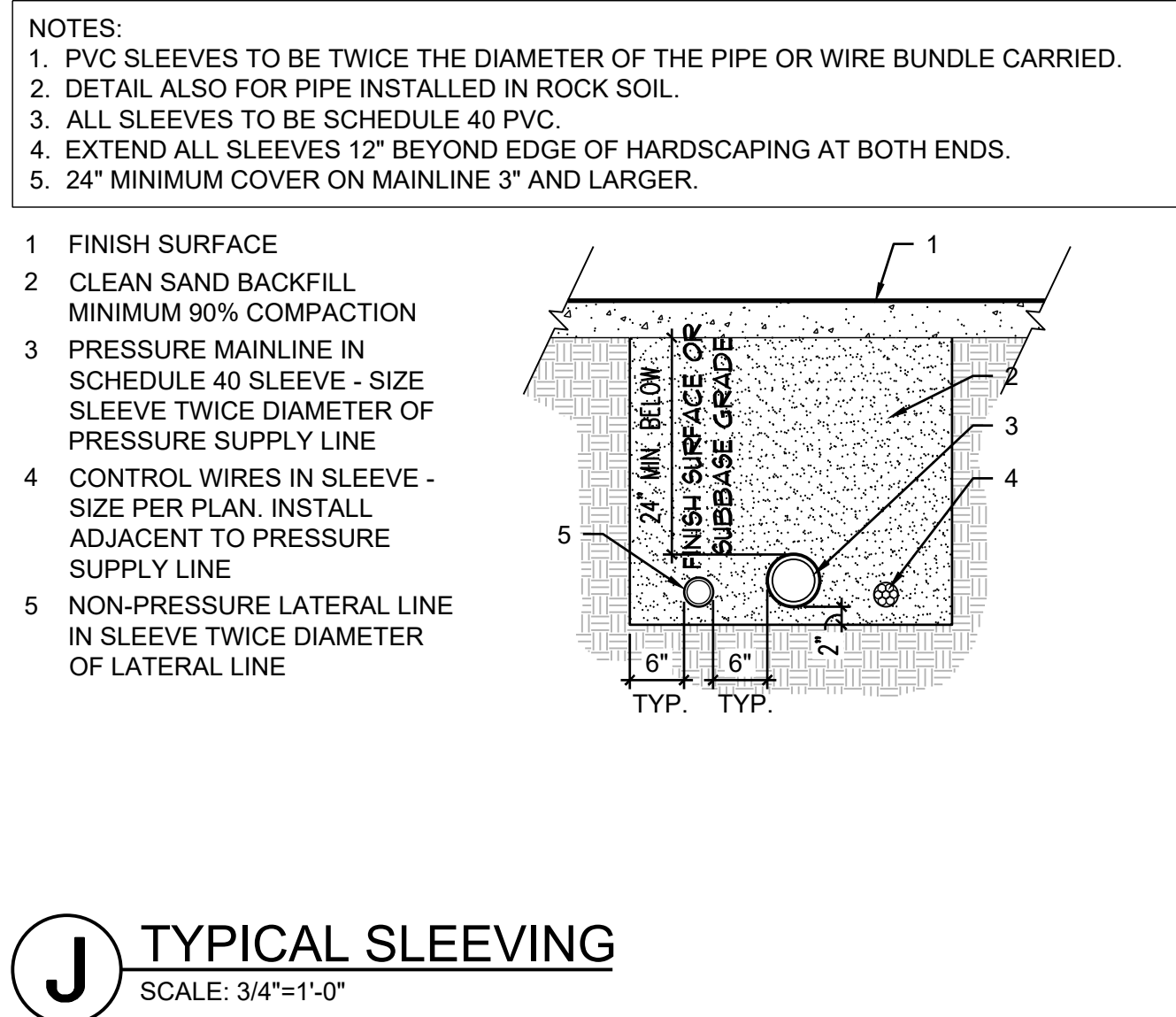
E CENTER FEED INLINE DRIP
SCALE: NTS



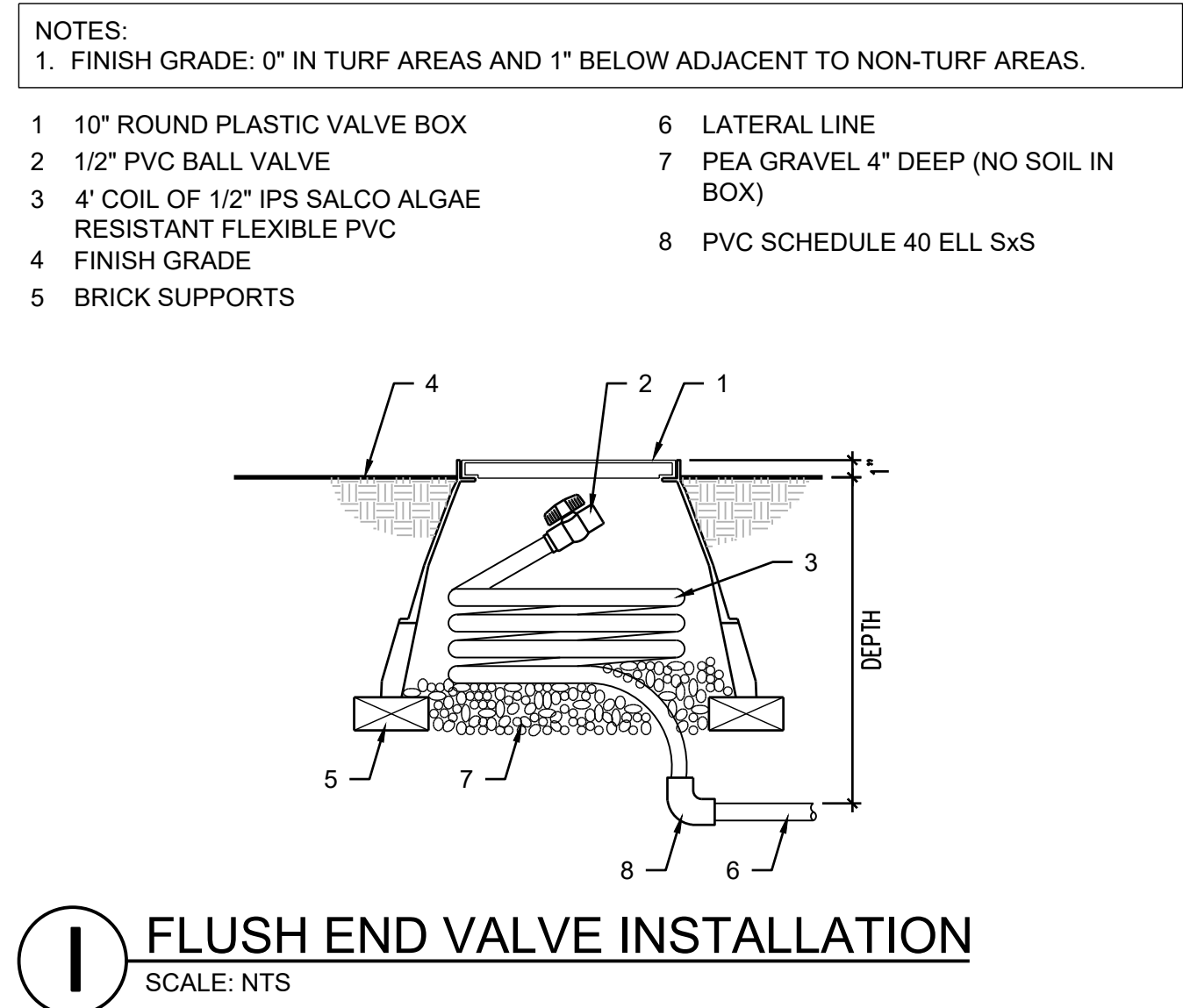
L DRIP TUBING CONNECTION
SCALE: NTS



K TYPICAL TRENCHING
SCALE: 3/4"=1'-0"



J TYPICAL SLEEVING
SCALE: 3/4"=1'-0"



I FLUSH END VALVE INSTALLATION
SCALE: NTS

BENCH MARK:
No. QY11328, ELEV. 15.323 FEET
DATE ADJ. 2005, QUAD. HAWTHORNE/TORRANCE

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811
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No.	DESCRIPTION	DATE

nuvis
LANDSCAPE
ARCHITECTURE
20250 SW ACACIA ST., SUITE 260
NEWPORT BEACH, CA
U.S.A. 92660
PH: 714.754.7311

PLANS PREPARED BY:
PERRY A CARDOZA
LANDSCAPE ARCHITECT, RLA
10-07-2024
DATE

CITY OF HERMOSA BEACH
PUBLIC WORKS DEPARTMENT
RECOMMENDED FOR PERMIT ISSUANCE:
J. Olan
10/03/2024
DATE

PUBLIC IMPROVEMENT PLANS
PARKING LOT "D"
1331 MANHATTAN AVENUE
IRRIGATION DETAILS

FILE NUMBER
XXXXX-CIVIL
L6
SHT. 21 OF 31

38. THE SPRINKLER SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE SHOWN ON THE IRRIGATION DRAWINGS. VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE OWNER'S AUTHORIZED REPRESENTATIVE.
39. IRRIGATION DEMAND: REFER TO IRRIGATION POINTS OF CONNECTION.
40. CONTACT CONTROLLER SALES REPRESENTATIVE FOR PRE-CONSTRUCTION MEETING AND CERTIFICATION REQUIREMENTS.
41. CONTRACTOR TO SUPPLY ALL TURNOVER DOCUMENTS TO THE CLIENT. SUBMIT ALL WARRANTIES, AS-BUILTS, TURNOVER EQUIPMENT, ETC.
42. THE CONTRACTOR SHALL PERMANENTLY HOT STAMP ALL VALVE BOX LIDS WITH 2-INCH MINIMUM LETTER HEIGHT AS FOLLOWS:

- 'X1' FOR REMOTE CONTROL VALVES ('X' = CONTROLLER AND '1' = STATION NUMBER)
- 'FS' FOR FLOW SENSOR
- 'MV' FOR MASTER CONTROL VALVE
- 'GV' FOR GATE VALVE
- 'QC' FOR QUICK COUPLING VALVE
- 'SP' FOR SPLICE BOX OR PULL BOX

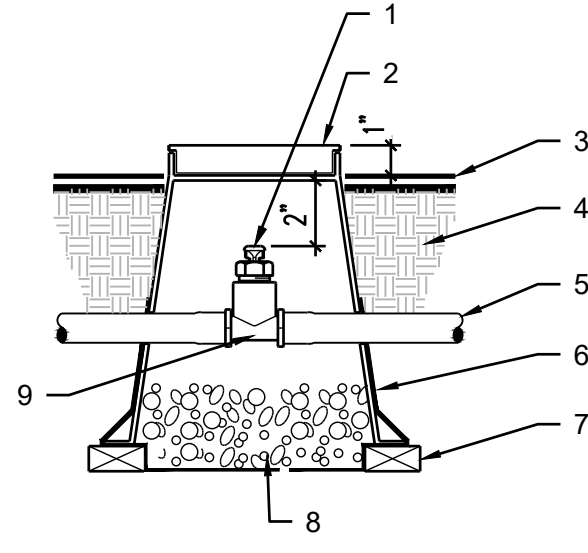
43. CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE EXISTING FUNCTIONING IRRIGATION SYSTEM OPERATIONAL DURING CONSTRUCTION. ANY DAMAGES TO EXISTING PLANT MATERIAL AS RESULT OF EXISTING IRRIGATION NOT BEING FUNCTIONAL SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPLACE.
44. CONTRACTOR TO REPAIR EXISTING IRRIGATION SYSTEMS DAMAGED DURING THE EXECUTION OF THE CONTRACT. REPLACE PLANT MATERIALS DAMAGED DURING THE CONSTRUCTION PERIOD WITH THE SAME SPECIES OF EQUAL SIZE OR GREATER. CONTRACTOR SHALL MAINTAIN EXISTING PLANTING WITHIN THE JOB SITE LIMITS DURING DEMOLITION AND CONSTRUCTION PHASES. EXISTING IRRIGATION SYSTEMS SHALL EITHER REMAIN OPERATIONAL FOR CONTRACTOR'S USE OR CONTRACTOR SHALL HAND WATER EXISTING PLANT MATERIALS AS NEEDED.
45. CONTRACTORS SHALL FIELD VERIFY THAT ALL IRRIGATION EXISTING EQUIPMENT IS ON SITE AND IS OPERATIONAL (CONTROLLER, BACKFLOW PREVENTER, VALVES (NEW AND EXISTING) FLOW SENSOR, MASTER VALVE, MAINLINE, LATERAL LINES, ETC ALL. CONTACT HCLA'S AUTHORIZED REPRESENTATIVES, IOR, AND OAR IF EQUIPMENT IS MISSING OR IN POOR CONDITION. FAILURE TO OBTAIN HCLA'S APPROVAL PRIOR TO ANY / ALL INSTALLATIONS SHALL CAUSE THE CONTRACTOR TO MAKE ARCHITECT AND/OR OAR DIRECTED REVISIONS AT NO ADDITIONAL COST TO HCLA.

19. CONTROL VALVES SHALL BE SIZED AS DESIGNATED ON THE DRAWINGS AND SHALL BE INSTALLED IN VALVE BOXES AS INDICATED IN THE DETAILS. TOP OF BOXES SHALL BE SET 1" ABOVE FINISHED GRADE IN TURF AND 2" IN NON TURF AREAS AND PERMANENTLY MARKED WITH THE LETTERS R.C.V.
20. CONTRACTOR SHALL INSTALL ANTI-DRAIN CHECK VALVES AS NECESSARY TO PREVENT LOW HEAD DRAINAGE. IN LOCATIONS WHERE LOW HEAD DRAINAGE WILL CAUSE EROSION AND EXCESS WATER, INSTALL KING BROS. CV SERIES CHECK VALVES IN LATERAL LINES FOR EVERY 10' OF ELEVATION CHANGE.
21. BUBBLERS SHALL BE LOCATED ON THE UPHILL SIDE OF TREES.
22. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BECOME FAMILIAR WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, ETC. COORDINATE WORK WITH THE GENERAL CONTRACTOR AND OTHER SUBCONTRACTORS FOR THE LOCATION AND THE INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADWAYS, PAVING, STRUCTURES, ETC. CONTRACTOR TO VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES PRIOR TO THE EXCAVATION OF TRENCHES. CONTRACTOR IS TO REPAIR ANY DAMAGE CAUSED BY THEIR WORK AT NO ADDITIONAL COST TO THE OWNER.
23. REMOTE CONTROL VALVES SHALL BE PROGRAMMED IN SEQUENCE AS SHOWN ON PLANS UNLESS DIRECTED OTHERWISE BY THE CITY'S AUTHORIZED REPRESENTATIVE. RUN WIRE FROM EACH RCV TO THE CONTROLLER. SPLICING WIRES TOGETHER OUTSIDE OF VALVE BOXES WILL NOT BE PERMITTED.
24. INSTALL VALVE BOXES MINIMUM 12" FROM AND PERPENDICULAR TO WALK, CURB, LAWN, BUILDING OR LANDSCAPE FEATURE. AT MULTIPLE VALVE BOX GROUPS, EACH BOX SHALL BE AN EQUAL DISTANCE FROM THE WALK, CURB, LAWN, ETC. AND EACH BOX SHALL BE MINIMUM 12" APART. SHORT SIDE OF VALVE BOXES SHALL BE PARALLEL TO WALK, CURB, LAWN, ETC.
25. LOCATE QUICK COUPLING VALVE 12" FROM HARDSCAPE AREA.
26. VALVE LOCATIONS SHOWN ARE DIAGRAMMATIC. INSTALL IN GROUND COVER/SHRUB AREAS WHERE POSSIBLE (NOT IN LAWN AREA).
27. NOTIFY OWNERS/OWNER'S AUTHORIZED REPRESENTATIVE OF ANY ASPECTS OF LAYOUT THAT WILL PROVIDE INCOMPLETE OR INSUFFICIENT WATER COVERAGE OF PLANT MATERIAL AND DO NOT PROCEED UNTIL HIS/HER INSTRUCTIONS ARE OBTAINED.
28. ALL EXCAVATIONS ARE TO BE FILLED WITH COMPACTED BACKFILL. REPAIR ALL SETTLED TRENCHES PROMPTLY. REPAIR ALL SETTLED TRENCHES PROMPTLY, FOR A PERIOD OF 1 YEAR AFTER COMPLETION OF WORK.
29. INSTALL ONE (1) SPARE CONTROL WIRE FOR EVERY 6 (SIX) STATIONS ON THE CONTROLLER ALONG THE ENTIRE MAIN LINE. SPARE WIRES SHALL BE THE SAME COLOR (ONE WITH A WHITE STRIPE) AND OF A DIFFERENT COLOR THAN OTHER CONTROL WIRES. LOOP 36" EXCESS WIRE INTO EACH SINGLE VALVE BOX AND INTO ONE VALVE BOX IN EACH GROUP OF VALVES. SPARE WIRE(S), NOT APPLICABLE FOR TWO-WIRE SYSTEMS.
30. WHEN VERTICAL OBSTRUCTIONS (STREET LIGHTS, TREES, FIRE HYDRANTS, ETC.) INTERFERE WITH THE SPRAY PATTERN OF THE HEADS SO AS TO PREVENT PROPER COVERAGE, FIELD ADJUST THE SPRINKLER SYSTEM BY INSTALLING A QUARTER, THIRD, HALF CIRCLE OR ADJUSTABLE NOZZLE AND HEAD AT THE SIDES OF THE OBSTRUCTION SO AS TO PROVIDE PROPER COVERAGE. ALL ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
31. NOTIFY ARCHITECT OF ANY ASPECTS OF LAYOUT THAT WILL PROVIDE INCOMPLETE OR INSUFFICIENT WATER COVERAGE OF PLANT MATERIAL AND DO NOT PROCEED UNTIL HIS/HER INSTRUCTIONS ARE OBTAINED.
32. NOTIFY ALL LOCAL JURISDICTIONS FOR INSPECTION AND TESTING OF INSTALLED BACKFLOW PREVENTION DEVICE.
33. CONNECT FLOW SENSOR TO CONTROLLER WITH CONDUCTOR DIRECT BURIAL SHIELDED SENSOR CABLE (EV-CAB-SEN.) INSTALL EACH CABLE IN A SEPARATE 1-1/4" PVC SCHEDULE 40 CONDUIT WITH SWEEP-ELLS.
34. CONTRACTOR SHALL WARRANT THAT THE IRRIGATION SYSTEM WILL BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF 1 YEAR AFTER FINAL ACCEPTANCE OF WORK.
35. EXISTING IRRIGATION NOT AFFECTED BY NEW CONSTRUCTION SHALL REMAIN AND BE PROTECTED IN PLACE. EXISTING IRRIGATION SHALL REMAIN OPERATIONAL DURING THE CONSTRUCTION PHASE. DAMAGED EQUIPMENT DURING CONSTRUCTION SHALL BE REPLACED WITH LIKE-KIND EQUIPMENT.
36. ELECTRICAL CONTRACTOR TO SUPPLY 120 VAC (2.5 AMP) SERVICE TO CONTROLLER LOCATION. IRRIGATION CONTRACTOR TO MAKE FINAL CONNECTION FROM ELECTRICAL STUB-OUT TO CONTROLLER. IRRIGATION CONTROL WIRE SHALL BE #14, U.L. APPROVED FOR DIRECT BURIAL. COMMON WIRE SHALL BE #12 U.L. APPROVED AND SHALL BE WHITE IN COLOR. WIRING TO INDIVIDUAL REMOTE CONTROL VALVES SHALL BE COLOR OTHER THAN WHITE.
37. ALL EXCAVATIONS ARE TO BE FILLED WITH COMPACTED BACKFILL. REPAIR ALL SETTLED TRENCHES PROMPTLY, FOR A PERIOD OF 1 YEAR AFTER COMPLETION OF WORK. ADDITIONALLY, CONTRACTOR SHALL WARRANT THAT THE IRRIGATION SYSTEM WILL BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF 1 YEAR AFTER FINAL ACCEPTANCE OF WORK.

IRRIGATION NOTES:

1. THE CONTRACTOR SHALL REVIEW RELATED DRAWINGS AND SHALL ENSURE COORDINATION WITH ALL APPLICABLE TRADES PRIOR TO SUBMITTING BID.
2. THE IRRIGATION SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES BY LICENSED CONTRACTORS AND EXPERIENCED WORKERS. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND FEES RELATING TO THEIR WORK.
3. OPERATE IRRIGATION CONTROLLER(S) BETWEEN THE HOURS OF 10:00 PM AND 7:00 AM.
4. NOTIFY UNDERGROUND SERVICE ALERT AT 811 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION.
5. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO FURNISH AND INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS, AS DESCRIBED IN THE SPECIFICATIONS, AND IN ACCORDANCE WITH APPLICABLE CODES AND ORDINANCES BY LICENSED CONTRACTORS AND EXPERIENCED WORKERS. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND FEES RELATING TO THEIR WORK.
6. DESIGN REFLECTS COMPLIANCE WITH CALIFORNIA STATE ASSEMBLY BILL 325 (AB 325) AND THE STATE'S MODEL ORDINANCE AND/OR THE LOCAL GOVERNING AGENCY'S ADOPTED WATER EFFICIENT LANDSCAPE ORDINANCE.
7. DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTMENTS NECESSARY TO CONFORM TO ACTUAL FIELD CONDITIONS. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS ARE FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHERE POSSIBLE. AVOID ANY CONFLICTS BETWEEN THE SPRINKLER SYSTEM, PLANTING AND ARCHITECTURAL FEATURES. PARALLEL PIPES MAY BE INSTALLED IN COMMON TRENCH. PIPES ARE NOT TO BE INSTALLED DIRECTLY ABOVE ONE ANOTHER.
8. DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, WHICH MAY BE REQUIRED. CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL WORK AND PLAN WORK ACCORDINGLY, TO FURNISH ALL REQUIRED MATERIAL. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. THE WORK SHALL BE INSTALLED IN SUCH A MANNER AS TO AVOID CONFLICTS BETWEEN IRRIGATION SYSTEMS, PLANTING, AND ARCHITECTURAL FEATURES.
9. IRRIGATION SLEEVES SHOWN FOR MAJOR STREET AND DRIVEWAY CROSSINGS FOR CLARITY ONLY. ALL PIPE SLEEVES TO BE MINIMUM 2X DIAMETER OF PIPE. ALL MAINLINE SHALL BE ACCOMPANIED WITH A MINIMUM 2-INCH DIAMETER WIRE SLEEVE. SLEEVING TO EXTEND MINIMUM 12 INCHES BEYOND PAVING OR AS NECESSARY TO ACCESS. CONTRACTOR SHALL INSTALL SLEEVING BELOW ALL PAVING, HARDSCAPE, ETC. AS SHOWN AND AS DIRECTED BY ENGINEER. IN ADDITION TO THE SLEEVES AND CONDUITS SHOWN ON THE DRAWINGS, THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF SLEEVES AND CONDUITS OF SUFFICIENT SIZE UNDER ALL PAVED AREAS.
10. DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE CITY'S AUTHORIZED REPRESENTATIVE. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
11. CONTRACTOR SHALL FLUSH ALL LINES AND ADJUST ALL HEADS FOR OPTIMUM PERFORMANCE IN ACCORDANCE WITH THE SPECIFICATIONS AND TO PREVENT OVERSPRAY ONTO HARDSCAPE AREAS OR STRUCTURAL ELEMENTS. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF ARC TO FIT ACTUAL SITE CONDITIONS AND TO THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM. ALL MAINLINES SHALL BE FLUSHED PRIOR TO THE INSTALLATION OF IRRIGATION HEADS. AT 30 DAYS AFTER INSTALLATION EACH SYSTEM SHALL BE FLUSHED TO ELIMINATE GLUE AND DIRT PARTICLES FORM THE LINES. COSTS INCURRED DUE TO ANY ADJUSTMENTS FOR 100% COVERAGE, INCLUDING THOSE REQUESTED BY THE CITY'S AUTHORIZED REPRESENTATIVE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
12. SYSTEM DESIGN IS BASED ON A MINIMUM OPERATING PRESSURE 40.0 (P.S.I.) AND A MAXIMUM DEMAND 20.0 (G.P.M.) AS SHOWN AT EACH POINT OF CONNECTION ON THE DRAWINGS. CONTRACTOR SHALL VERIFY PRESSURE AND DEMAND AT EACH POINT OF CONNECTION PRIOR TO COMMENCING INSTALLATION AND SUBMIT SUCH IN WRITING TO THE CITY'S AUTHORIZED REPRESENTATIVE. IF ANY DISCREPANCIES EXIST, THEY SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CITY'S AUTHORIZED REPRESENTATIVE.
13. EQUIPMENT SHOWN IN HARDSCAPE AREAS ARE FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED WHENEVER POSSIBLE WITHIN PLANTED AREAS A REASONABLE, REACHABLE DISTANCE FROM HARDSCAPE OR TURF AREAS.
14. UNLESS OTHERWISE NOTED ON THE DRAWINGS, CONTRACTOR SHALL INSTALL WIRE AND PIPE UNDER HARDSCAPE AREAS IN P.V.C. SCHEDULE 40 SLEEVES PLACED PRIOR TO INSTALLING HARDSCAPE IN ACCORDANCE WITH APPLICABLE CODES.
15. WHEREVER POSSIBLE, CONTROL WIRES SHALL OCCUPY THE SAME TRENCH AS PIPES.
16. EACH CONTROLLER SHALL HAVE ITS OWN INDEPENDENT GROUND WIRE.
17. SPLICING OF 24 VOLT WIRES WILL NOT BE PERMITTED EXCEPT IN VALVE BOXES. CONTRACTOR TO LEAVE A 24" COIL OF EXCESS WIRE AT EACH SPLICE AND EVERY 100' ON CENTER ALONG WIRE RUN. TAPE WIRE BUNDLES 10' ON CENTER. NO TAPING WILL BE PERMITTED INSIDE SLEEVES.
18. WIRE CONNECTORS SHALL BE 3M-DBY/Y-6 DIRECT BURY OR APPROVED EQUAL.

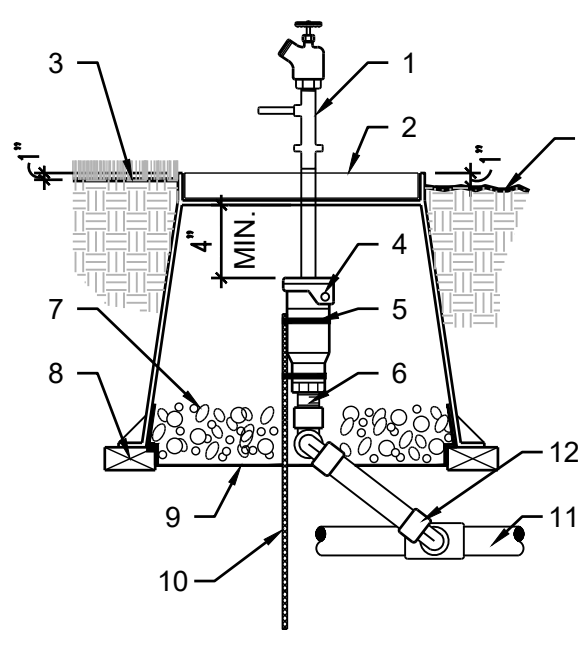
- 1 AIR / VACUUM RELIEF VALVE, INSTALL AT THE HIGH POINT OF THE SYSTEM
- 2 PLASTIC ROUND VALVE BOX, 7" SIZE, HEAT BRAND "AR" ONTO LID
- 3 FINISHED GRADE IN SHRUB AREAS
- 4 AMENDED OR NATIVE SOIL
- 5 SUB-SURFACE DRIP TUBING, DEPTH PER LEGEND
- 6 LANDSCAPE FABRIC, WRAP UP AND OVER ALL OPENINGS
- 7 BRICK SUPPORTS, 2 REQ.
- 8 CRUSHED 3/4" ROCK, MIN. 4" DEPTH INSIDE BOX
- 9 COMBINATION TEE FITTING, TUBING X TUBING X FIPT, SAME MANUFACTURER AS DRIP TUBING. USE 3/4"x1 1/2" PVC THREADED REDUCER BUSHING AS REQUIRED



A DRIP AIR RELIEF VALVE
SCALE: NTS

- NOTES:
1. FINISH GRADE: 1" BELOW FINISH SURFACE ADJACENT TO TURF AND 2" BELOW ADJACENT TO NON-TURF AREAS.
 2. USE TEFLON TAPE ON ALL THREADED FITTINGS.

- 1 QUICK COUPLER KEY WITH MALE HOSE BIB CONNECTION AS SHOWN, KEY MUST CLEAR VALVE BOX
- 2 ROUND PLASTIC VALVE BOX WITH BOLT DOWN COVER USE STAINLESS BLOT NUT AND WASHER LABEL "QCV" ONTO LID
- 3 FINISH GRADE
- 4 QUICK COUPLER VALVE REFER TO LEGEND FOR SPECIFICATION
- 5 GALVANIZED PUNCH LOC (2 REQUIRED)
- 6 BRASS NIPPLE (LENGTH AS REQUIRED)
- 7 3/4" CRUSHED GRAVEL, 2 CUBIC FEET
- 8 BRICK SUPPORT
- 9 LANDSCAPE FABRIC TO COVER BOTTOM AND ALL SIDES OF VALVE BOX
- 10 #4x36" REBAR STAKE
- 11 MAINLINE, SEE SPECIFICATIONS
- 12 BRASS TRIPLE SWING JOINT (SIZE PER QCV) USE TWO STREET ELLS, ONE NIPPLE (6" MIN. LENGTH), AND ONE THREADED ELL FOR ASSEMBLY



B QUICK COUPLING VALVE ASSEMBLY
SCALE: NTS

BENCH MARK:

No. QY11328, ELEV. 15.323 FEET

DATE ADJ. 2005, QUAD. HAWTHORNE/TORRANCE

Underground Service Alert
DigAlert
CALL TOLL FREE 811
TWO WORKING DAYS BEFORE YOU DIG

IMPORTANT NOTICE
SECTION 4212/4217 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A PERMIT TO EXCAVATE WILL BE VALID.

REVISIONS		
No.	DESCRIPTION	DATE

nuvis
LANDSCAPE ARCHITECTURE
20250 SW ACACIA ST., SUITE 260
NEWPORT BEACH, CA
U.S.A. 92660
PH: 714.754.7311

PLANS PREPARED BY:

PERRY A CARDOZA 10-07-2024
LANDSCAPE ARCHITECT, RLA

CITY OF HERMOSA BEACH
PUBLIC WORKS DEPARTMENT

RECOMMENDED FOR PERMIT ISSUANCE:

J. Olan 10/03/2024

PUBLIC IMPROVEMENT PLANS

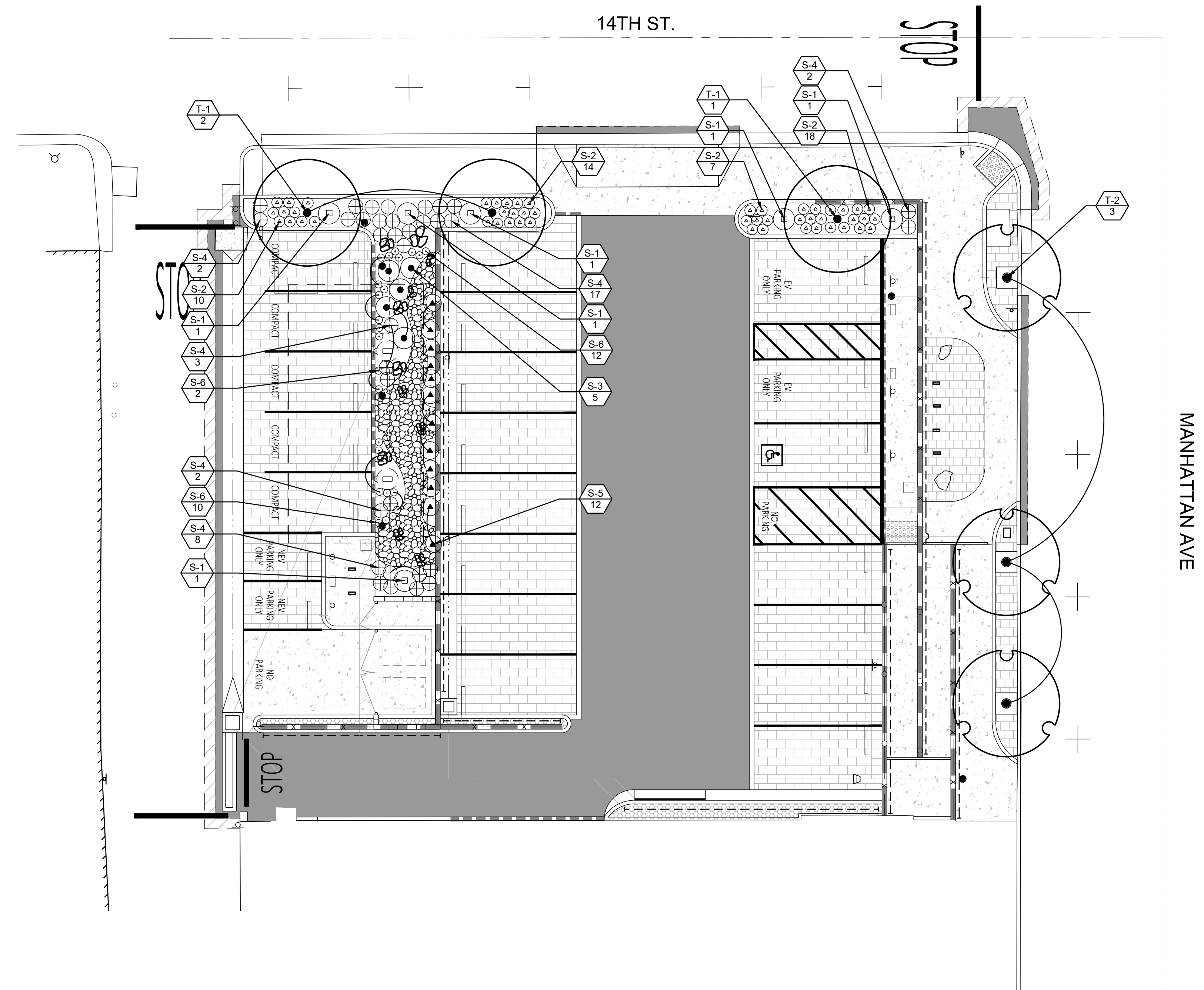
PARKING LOT "D"
1331 MANHATTAN AVENUE
IRRIGATION DETAILS

FILE NUMBER
XXXXX-CIVIL

L7
SHT. 22 OF 31

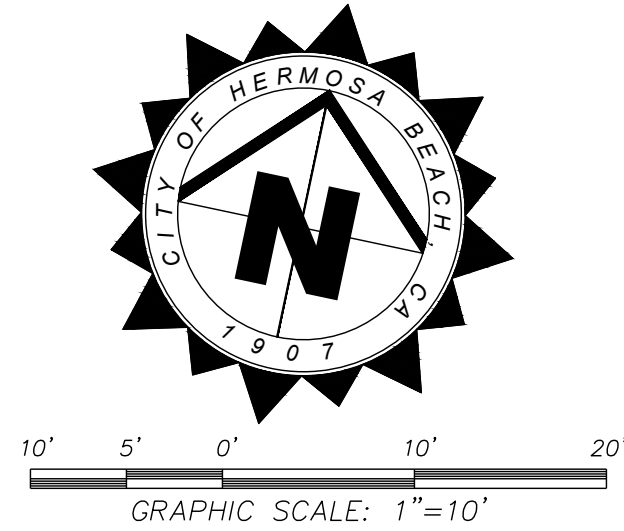
PLANT LIST

SYMBOL	CODE	BOTANICAL NAME	COMMON NAME	SIZE	O.C. SPACING	WATER USE	QTY
TREES							
	T-1	MELALEUCA NESOPHILA	PINK MELALEUCA	24" BOX	PER PLAN	LOW	3
	T-2	TRISTANIA CONFERTA	BRISBANE BOX STD.	24" BOX	PER PLAN	MOD	3
SHRUBS							
	S-1	AGAVE VILMORINIANA	OCTOPUS AGAVE	5 GAL.	PER PLAN	LOW	6
	S-2	ALOE STRIATA	CORAL ALOE	5 GAL.	PER PLAN	LOW	49
	S-3	CAREX BARBERAE	SANTA BARBARA SEDGE	1 GAL.	PER PLAN	LOW	5
	S-4	DIANELLA CAERULEA 'CLARITY BLUE'	DIANELLA	5 GAL.	PER PLAN	LOW	34
	S-5	LOMANDRA LONGIFOLIA 'BREEZE'	BREEZE™ MAT RUSH	1 GAL.	PER PLAN	LOW	12
	S-6	SISYRINCHIUM BELLUM	BLUE EYED GRASS	1 GAL.	PER PLAN	LOW	24



NOTES

- REFER TO SHEET L9 FOR THE PLANTING DETAILS AND NOTES.



BENCH MARK:

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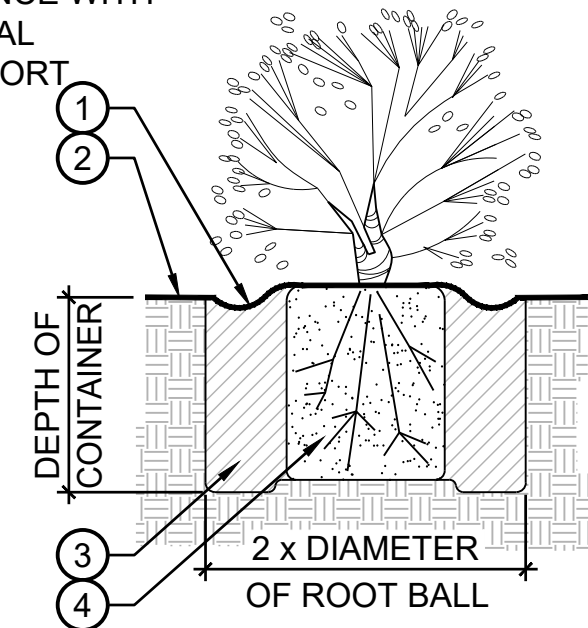
PARKING LOT "D"
 1331 MANHATTAN AVENUE
 PLANTING PLAN &
 PLANT LIST

FILE NUMBER
 XXXXX-CIVIL

L8
 SHT. 23 OF 31

NOTES:
 1. CROWN OF ROOTBALL TO BE 1/2" - 1" ABOVE FINISH GRADE.
 2. FOR ADDITIONAL INFORMATION REFER TO PLANTING NOTES & SPECIFICATIONS.

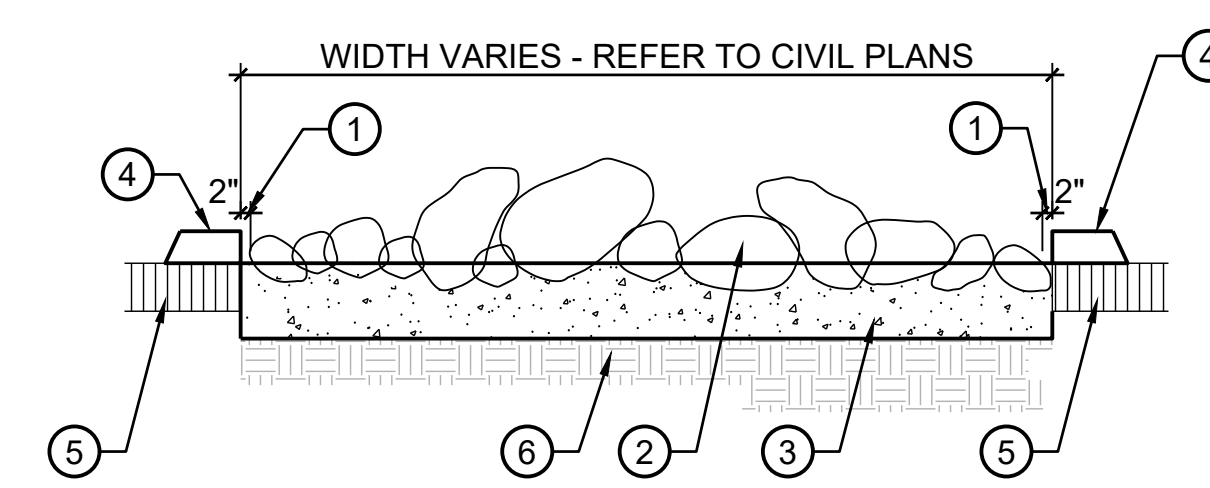
- ① A SHALLOW BASIN 2" DEEP SHALL BE FORMED AROUND ROOTBALL BELOW FINISH GRADE
- ② FINISH GRADE
- ③ BACKFILL IN ACCORDANCE WITH PROJECT AGRICULTURAL SUITABILITY SOILS REPORT
- ④ ROOTBALL



A SHRUB PLANTING
 NOT TO SCALE

NOTES:
 1. CONTRACTOR SHALL SUBMIT RIVER ROCK COBBLE COLOR & SIZE SAMPLES TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PURCHASE.
 2. RIVER ROCK COBBLE AVAILABLE FROM SOUTH WEST BOULDER AND STONE, 714-882-1010.
 3. RIVER ROCK COBBLE SHALL BE "MALIBU COBBLE", 4" DIA TO 8" DIA..

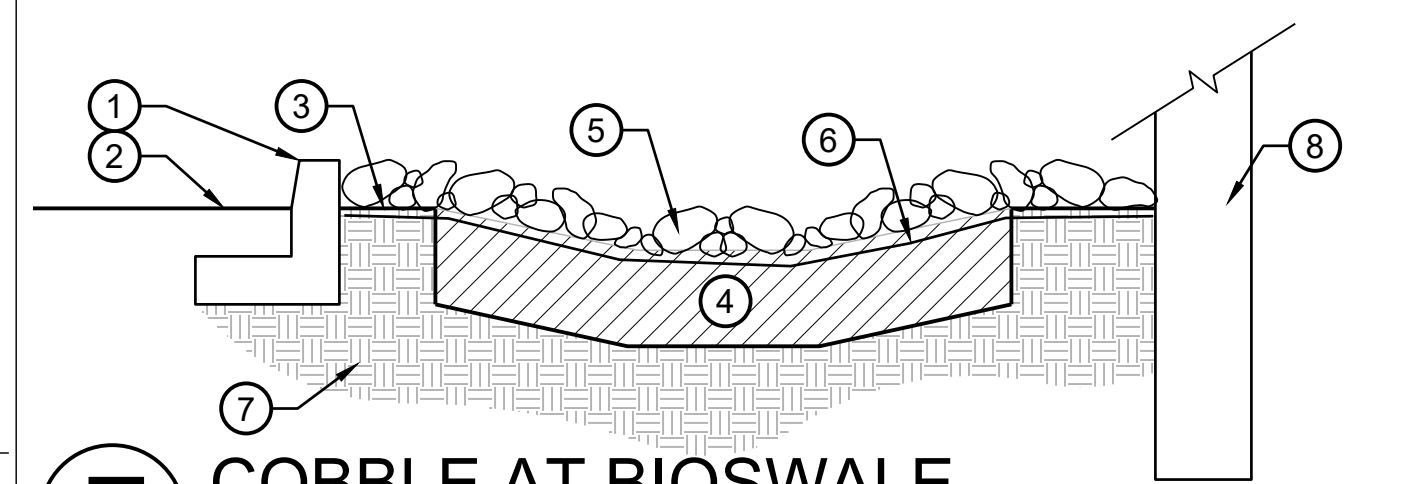
- ① EXTENDED MORTAR BED 2" BEYOND EDGE OF RIVER ROCKS COBBLE
- ② COBBLE
- ③ POURED PCC MORTAR BED 6" DEEP.
- ④ MEDIAN CURB PER CIVIL PLANS.
- ⑤ EXISTING ASPHALT CONCRETE PAVEMENT.
- ⑥ 95% RELATIVE COMPACTED SUBGRADE.



C RIVER ROCK COBBLE
 SCALE: 1/2" = 1'-0"

NOTES:
 1. CONTRACTOR SHALL SUBMIT RIVER ROCK COBBLE COLOR & SIZE SAMPLES TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PURCHASE.
 2. RIVER ROCK COBBLE AVAILABLE FROM SOUTHWEST BOULDER AND STONE, 714-882-1010.
 3. RIVER ROCK COBBLE SHALL BE "MALIBU COBBLE", 4" DIA TO 8" DIA..
 4. BIOSWALE SHALL BE CONSTRUCTED PER CIVIL DETAIL 84 SHEET C-7.

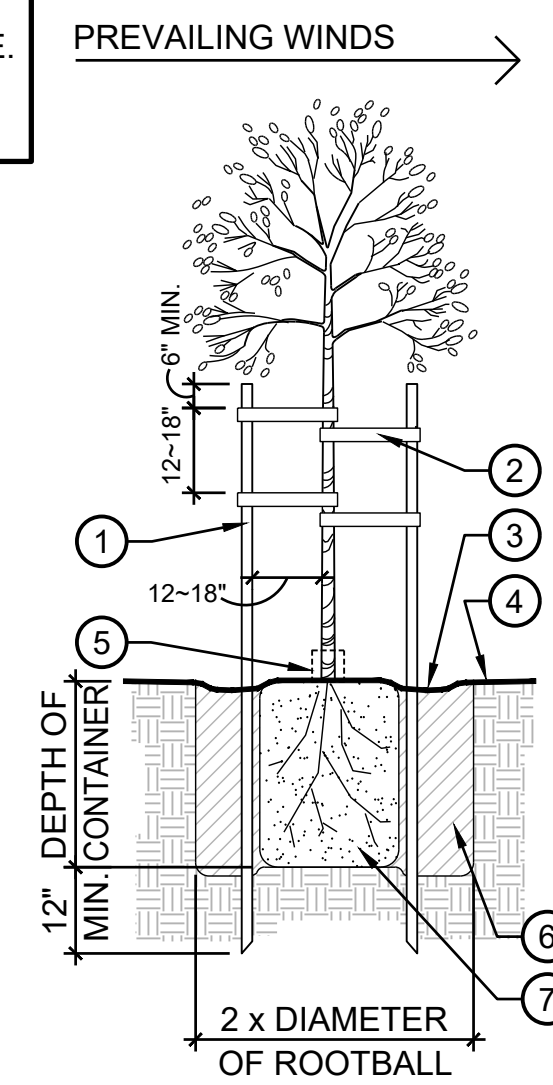
- ① CURB
- ② FINISH SURFACE
- ③ FINISH GRADE
- ④ TOPSOIL LAYER- BIOSWALE 80/20 MIX AVAILABLE FROM GAIL MATERIALS
- ⑤ COBBLE- PER NOTES- LAYOUT PER PLANS
- ⑥ WEED BARRIER - MIRAFI 140N
- ⑦ SUBGRADE PER CIVIL
- ⑧ RETAINING WALL



E COBBLE AT BIOSWALE
 SCALE: NTS

NOTES:
 1. CROWN OF ROOTBALL TO BE 1" ABOVE FINISH GRADE.
 2. FOR ADDITIONAL INFORMATION REFER TO PLANTING NOTES AND SPECIFICATIONS.

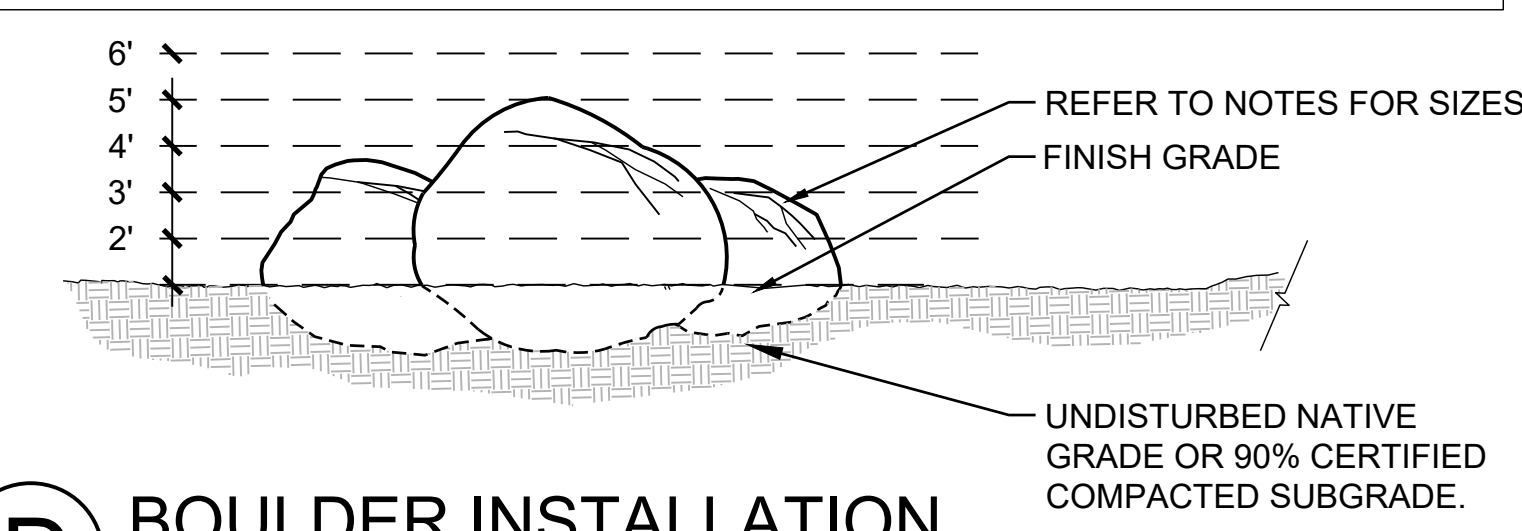
- ① 2"Ø MINIMUM X 10' LODGE POLE STAKE BOTH SIDES, OR 'TOMAHAWK TREE STABILIZER SYSTEM' (800) 845-3343, OR APPROVED EQUAL
- ② CINCH TIE, ARBOR TIE, OR APPROVED EQUAL
- ③ A SHALLOW BASIN 2" DEEP SHALL BE FORMED AROUND BALL BELOW FINISH GRADE. TREES PLANTED IN TURF AREAS SHALL NOT HAVE BASINS.
- ④ FINISH GRADE
- ⑤ TREES INSTALLED WITHIN TURF AREAS SHALL BE INSTALLED WITH 'ARBOR-GARD' OR APPROVED EQUAL AT BASE OF TRUNK.
- ⑥ BACKFILL IN ACCORDANCE WITH PROJECT AGRICULTURAL SUITABILITY SOILS REPORT
- ⑦ ROOTBALL



B (FOR 15 GAL. & 24" BOX TREES) TREE PLANTING & STAKING
 NOT TO SCALE

NOTES:
 1. ALL BOULDERS SHALL BE BURIED 30% OF OVERALL HEIGHT, WIDTH AND LENGTH.
 2. FINAL LOCATION OF ALL BOULDERS SHALL BE PER THE ENGINEER.
 3. CONTRACTOR TO PROVIDE SAMPLE BOULDER FOR APPROVAL BY ENGINEER PRIOR TO PURCHASE.

BOULDER MEASUREMENT CHART:
 APPROX. SIZE:
 B1: 5'x5'x5'
 B2: 3'x3'x3'
 B3: 2'x2'x2'
 BOULDER TYPE: BOULDERS SHALL BE "SIERRA BOULDERS" AVAILABLE AT SOUTHWEST BOULDER AND STONE PHONE: 714-882-1010 OR APPROVED EQUAL.



D BOULDER INSTALLATION
 SCALE: NTS

PLANTING PLAN NOTES

- 1. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO FURNISH AND INSTALL PLANT MATERIAL AS SHOWN ON THE DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
- 2. UNLESS DESIGNATED ON THE DRAWINGS OTHERWISE, STRUCTURAL IMPROVEMENTS AND HARDSCAPE SHALL BE INSTALLED PRIOR TO PLANTING OPERATIONS.
- 3. ALL WORK ON THE IRRIGATION SYSTEM, INCLUDING HYDROSTATIC, COVERAGE, AND OPERATIONAL TESTS AND THE BACKFILLING AND COMPACTION OF TRENCHES SHALL BE PERFORMED PRIOR TO PLANTING OPERATIONS.
- 4. PLANT LIST ON THE DRAWINGS SHALL BE USED AS A GUIDE ONLY. CONTRACTOR SHALL TAKEOFF AND VERIFY SIZES AND QUANTITIES BY PLAN CHECK.
- 5. SAMPLES OF FERTILIZERS, ORGANIC AMENDMENT, SOIL CONDITIONERS, AND SEED SHALL BE SUBMITTED PRIOR TO INCORPORATION. CONTRACTOR SHALL FURNISH TO THE ENGINEER A CERTIFICATE OF COMPLIANCE FOR SUCH FURNISHED MATERIALS IF ALL REQUIRED.
- 6. LOCATIONS OF PLANT MATERIAL SHALL BE REVIEWED ON SITE BY THE ENGINEER PRIOR TO INSTALLATION.
- 7. AMENDMENTS SHALL BE PER THE SPECIFICATIONS.
- 8. IF, DURING PLANTING OPERATIONS THERE SEEMS TO BE MINIMAL OR NO PERCOLATION IN PLANTING PITS, CONTRACTOR SHALL CEASE PLANTING OPERATIONS AND IMMEDIATELY NOTIFY THE ENGINEER TO DISCUSS ALTERNATIVE TO MAINTAINING POSITIVE ROOTBALL DRAINAGE MEASURES.
- 9. TREES PLANTED WITHIN 5' TO 8' OF HARDSCAPE OR STRUCTURES SHALL BE INSTALLED WITH A ROOT BARRIER AS APPROVED BY THE ENGINEER.
- 10. ALL SHRUB PLANTING AREAS SHALL RECEIVE A 3" THICK LAYER OF MULCH COVER.

BENCH MARK:
 No. QY11328, ELEV. 15.323 FEET
 DATE ADJ. 2005, QUAD. HAWTHORNE/TORRANCE

Underground Service Alert
 DigAlert
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REVISIONS		
No.	DESCRIPTION	DATE

nuvis
 LANDSCAPE ARCHITECTURE
 20250 SW ACACIA ST., SUITE 260
 NEWPORT BEACH, CA
 U. S. A. 92660
 PH: 714.754.7311

PLANS PREPARED BY:

 PERRY A CARDOZA 10-07-2024
 LANDSCAPE ARCHITECT, RLA DATE

CITY OF HERMOSA BEACH
 PUBLIC WORKS DEPARTMENT
 RECOMMENDED FOR PERMIT ISSUANCE:

 10/03/2024 DATE

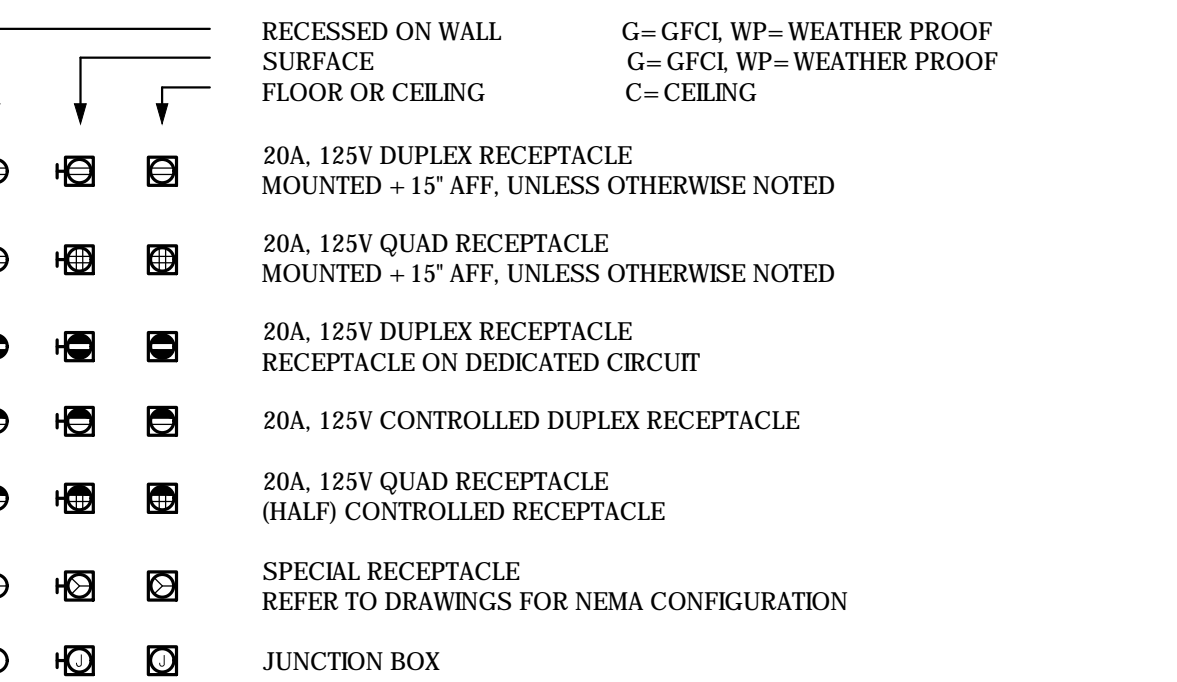
PUBLIC IMPROVEMENT PLANS
PARKING LOT "D"
 1331 MANHATTAN AVENUE
 PLANTING DETAILS, CONSTRUCTION
 DETAILS, AND NOTES

FILE NUMBER
 XXXXX-CIVIL
L9
 SHT. 24 OF 31

LEGEND

SYMBOL	DESCRIPTION
	NOTE CALLOUT
	DETAIL CALLOUT - NUMBER ON TOP DENOTES DETAIL NUMBER - NUMBER ON BOTTOM DENOTES SHEET DETAIL IS SHOWN
	MECHANICAL EQUIPMENT CALLOUT. SEE MECHANICAL PLANS FOR EXACT LOCATION AND REQUIREMENTS
	SECTION CALLOUT
	FEEDER CALLOUT
	EXISTING FEEDER CALLOUT
	NEW LINWORK
	EXISTING LINWORK
	DEMOLISHED LINWORK
	CONDUIT CONCEALED IN WALL OR ABOVE CEILING
	CONDUIT EXPOSED
	CONDUIT CONCEALED UNDERGROUND OR BELOW FLOOR
	CONDUIT EMERGENCY
	MULTI-CHANNEL RACEWAY
	CONDUIT TURNED UP
	CONDUIT CAPPED
	BRANCH CIRCUIT HOMERUN TO PANELBOARD AND CIRCUITS AS INDICATED
	3/4" CONDUIT. TICK MARKS INDICATE QUANTITY OF #12 AWG WIRES (UNLESS NOTED OTHERWISE. NO MARKS INDICATES 2#12 & 1#12 GND WIRES) - SMALL MARK DENOTES HOT WIRE - LARGE MARK DENOTES NEUTRAL WIRE - DIAGONAL DENOTES GROUND WIRE
	GENERATOR
	SWITCH
	CIRCUIT BREAKER
	2-WAY SWITCH. TRANSFER SWITCH
	FUSE
	TRANSFORMER
	GROUND CONNECTION
	MOTOR - SINGLE PHASE FRACTIONAL OR INTEGRAL HORSEPOWER
	METER
	VARIABLE FREQUENCY DRIVE
	PANEL
	FUSED DISCONNECT SWITCH
	NON-FUSED DISCONNECT SWITCH
	COMBINATION STARTER/DISCONNECT SWITCH
	SWITCH MOTOR RATED
	MEDIUM VOLTAGE FUSED DISCONNECT SWITCH

SYMBOL	DESCRIPTION
	WALL MOUNTED LIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
	BOLLARD LUMINAIRE
	POST TOP LUMINAIRE
	POLE MOUNTED LUMINAIRE, SINGLE HEAD
	POLE MOUNTED LUMINAIRE, DOUBLE HEAD
	POLE MOUNTED LUMINAIRE, TRIPLE HEAD
	POLE MOUNTED LUMINAIRE, QUAD HEAD
	IN GRADE LUMINAIRE
	PATHWAY LUMINAIRE
	LANDSCAPE FIXTURE
	JUNCTION BOX
	PHOTOCCELL FOR EXTERIOR APPLICATIONS
	DAYLIGHT SENSOR - CEILING MOUNTED
	RELAY
	EMERGENCY RELAY UL 924 COMPLIANT
	MOTION SENSOR - CEILING MOUNTED
	LIGHTING CONTROL NETWORK DEVICE
	DIGITAL TIMER SWITCH
	LIGHTING CONTROL PANEL - SURFACE MOUNTED
	PANELBOARD - RECESSED MOUNTED
	PANELBOARD - SURFACE MOUNTED
	DISTRIBUTION PANEL / BOARD
	SINGLE POLE SWITCH. DEVICE SHALL BE MOUNTED + 48" MAX AND + 36" MIN FROM THE CENTER OF DEVICE.



ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
1/C	SINGLE CONDUCTOR	MCA	MAXIMUM CIRCUIT AMPACITY
&	AND	MFG, MFR	MANUFACTURER
@	AT	MH	MANHOLE
A OR AMP	AMPERES	MRCT	MULTI-RATIO CURRENT TRANSFORMER
ABV	ABOVE	MIN	MINIMUM
A.C.	ASPHALT CONCRETE	MOC	MAXIMUM OVERCURRENT PROTECTION
AF	AMPERE FUSE RATING	MTD	MOUNTED
AFC	AVAILABLE FAULT CURRENT	MTG	MOUNTING
AFG	ABOVE FINISH GRADE	MTR	MOTOR
AIC	AMPERE INTERRUPTING CAPACITY	MV	MEDIUM VOLTAGE
AL	ALUMINUM	N	NORTH
APPROX.	APPROXIMATE	NC	NORMALLY CLOSED
AS	AMPERE SWITCH RATING	NEC	NATIONAL ELECTRICAL CODE
ASCC	AVAILABLE SHORT CIRCUIT CURRENT	NF	NON-FUSED
ATS	AUTOMATIC TRANSFER SWITCH	NIC	NOT IN CONTRACT
AUTO	AUTOMATIC	NO.	NUMBER
AUX	AUXILIARY	OC	ON CENTER
AWG	AMERICAN WIRE GAUGE	OC	OVERCURRENT PROTECTIVE DEVICE
BAT	BATTERY	OD	OUTSIDE DIAMETER
BEL	BELOW	OE	OVERHEAD ELECTRICAL
BKR	BREAKER	OH	OVERHEAD
B.S.	BARE STRANDED	P	POLE
C	CONDUIT	PB	PULL BOX
CB	CIRCUIT BREAKER	PC	PHOTOCELL
CEC	CALIFORNIA ELECTRICAL CODE	PDS	PRESSURE DIFFERENTIAL SWITCH
CKT	CIRCUIT	PF	POWER FACTOR
CL	CENTER LINE	PH OR Ø	PHASE
CMU	CONCRETE MASONRY UNIT	PV	POST INDICATING VALVE
C.O.	CONDUIT ONLY WITH PULL WIRE	PL	PLATE
CT	CURRENT TRANSFORMER	PNL	PANEL
CW	COLD WATER	POC	POINT OF CONNECTION
CU	COPPER	PREF.	PREFERRED
DL	DAMP LOCATION LISTING	PRI	PRIMARY
DP	DISTRIBUTION PANEL	PVC	POLY-VINYL CHLORIDE
DWG	DRAWING	PWR	POWER
EA	EACH	REC/RECEPT	RECEPTACLE
ECM	ELECTRONIC CIRCUIT MONITOR	REQD	REQUIRED
ELEC.	ELECTRICAL	RGS	RIGID GALVANIZED STEEL
EM	EMERGENCY	RMC	RIGID METAL CONDUIT
EMH	ELECTRICAL MANHOLE	RPPB	REDUCED PRESSURE BACK FLOW PREVENTER
EMT	ELECTRICAL METALLIC TUBING	RTAC	REAL TIME AUTOMATION CONTROLLER
EPR	ETHYLENE PROPYLENE RUBBER	SCCR	SHORT CIRCUIT CURRENT RATING
EQUIP	EQUIPMENT	SCE	SOUTHERN CALIFORNIA EDISON
EXIST/(E)	EXISTING	SF	SQUARE FEET
FXT	FIXTURE	SHT	SHEET
FLA	FULL LOAD AMPS	SP	SPARE
FT	FEET	SPECS	SPECIFICATIONS
FMC	FLEXIBLE METAL CONDUIT	ST	STREET
FTG	FOOTING	STD	STANDARD
GFI	GROUND FAULT INTERRUPTER	SW	SWITCH
GG	GREEN GROUND	SWBD	SWITCHBOARD
GND	GROUND	SWGR	SWITCHGEAR
HP	HORSEPOWER	T.O.D.	TOP OF DUCTBANK
HT	HEIGHT	T.O.M.	TOP OF MANHOLE
HZ	HERTZ	TPS	TWISTED SHIELDED PAIR
IE	INVERT ELEVATION	TRANS.XFMR	TRANSFORMER
IMC	INTERMEDIATE METAL CONDUIT	TS	TAMPER SWITCH
ISC	SHORT CIRCUIT CURRENT	TYP	TYPICAL
J, JB, J-BOX	JUNCTION BOX	UG	UNDERGROUND
KCMIL	THOUSAND CIRCULAR MILS	UON	UNLESS OTHERWISE NOTED
KV	KILOVOLT	V	VOLTS
KVA	KILOVOLT-AMPERES	VA	VOLT-AMPERES
KW	KILOWATT	VFD	VARIABLE FREQUENCY DRIVE
LF	LINEAR FEET	W	WATTS
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT	W/	WITH
LOC.	LOCATION	W/O	WITHOUT
LTG	LIGHTING	WCR	WITHSTAND CLOSE-ON RATING
LV	LOW VOLTAGE	WP	WEATHERPROOF
M	METER	Z	IMPEDANCE
MAX	MAXIMUM		

IN THE EVENT ABBREVIATIONS NOT MENTIONED HEREIN ARE USED, REFERENCE WILL BE MADE TO ANSI Y1.1, MILITARY STANDARD ABBREVIATIONS, AND OTHER STANDARD INDUSTRY CONVENTIONS.

GENERAL NOTES

- ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE AND ALL OTHER APPLICABLE FEDERAL AND STATE. WHERE THE CONSTRUCTION DOCUMENTS INDICATE MORE RESTRICTIVE REQUIREMENTS, THE CONSTRUCTION DOCUMENTS SHALL GOVERN BUT THE CONSTRUCTION DOCUMENTS SHALL NOT BE INTERPRETED AS AUTHORITY TO VIOLATE ANY CODE OR REGULATION.
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE UNDERWRITERS LABEL (UL) AND SHALL BE INSTALLED IN THE MANNER FOR WHICH THEY ARE DESIGNED AND APPROVED.
- THE CONTRACTOR SHALL NOT BORE, NOTCH OR IN ANY WAY CUT INTO ANY STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT OR STRUCTURAL ENGINEER.
- MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT ANCHORAGE NOTES:
 - ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCES AND DISPLACEMENT REQUIREMENTS.
 - A. ALL PERMANENT EQUIPMENT AND COMPONENTS.
 - B. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
 - C. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.
 - THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENT SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
 - A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORTS THE COMPONENT.
 - B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.
- PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES:
 - PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN LATEST SECTIONS OF CBC AND ASCE.
 - THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPA #) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.
 - COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.
 - THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

SHEET INDEX

SHEET	DESCRIPTION
E-0	GENERAL NOTES, LEGEND & SHEET INDEX
E-1	SINGLE LINE DIAGRAM & SCHEDULES
E-2	SITE LIGHTING PLAN
E-3	SITE POWER PLAN
E-4	DETAILS
E-5	DETAILS
E-6	TITLE 24 FORMS

BENCH MARK: No. QY11328 , ELEV. 15.323 FEET DATE ADJ. 2005 , QUAD. HAWTHORNE/TORRANCE	Underground Service Alert DigAlert CALL: TOLL FREE 811 TWO WORKING DAYS BEFORE YOU DIG IMPORTANT NOTICE SECTION 4212/4217 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A PERMIT TO EXCAVATE WILL BE VALID.	REVISIONS <table border="1"> <thead> <tr> <th>No.</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>△</td> <td></td> <td></td> </tr> <tr> <td>△</td> <td></td> <td></td> </tr> </tbody> </table>	No.	DESCRIPTION	DATE	△			△				PLANS PREPARED BY: Long Beach Los Angeles San Diego San Jose p2sinc.com	CITY OF HERMOSA BEACH PUBLIC WORKS DEPARTMENT RECOMMENDED FOR PERMIT ISSUANCE: 10/03/2024	PUBLIC IMPROVEMENT PLANS PARKING LOT "D" 1331 MANHATTAN AVENUE GENERAL NOTES, LEGEND & SHEET INDEX	FILE NUMBER XXXXX-CIVIL
			No.	DESCRIPTION	DATE											
△																
△																
ALEXANDER, M. H. SASSOON, P.E. RCE E-22639 DATE 06/18/2021	DATE	SHT. E-0 OF 31														

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	TOTAL V-A	LAMP TYPE	LUMENS	VOLTAGE	CRI	COLOR TEMP.	MTG.	MTG. HEIGHT	APPROVED MANUFACTURERS
F1	COBRA-HEAD LED POLE FIXTURE, TYPE 4 DISTRIBUTION	66	LED	6,010	120V	70+	3000K	PO	+ 15' AFF	EATON GALLEON #GAN-AF-02-LED-U-T4W-BK-8030 OR EQUAL.
F2	RECESSED WALL LED STEP-LIGHT	18	LED	1,400	120V	70+	3000K	RW	+ 18" AFF	WE-EF QR374 SERIES #616-2321 WITH ROUGH-IN HOUSING BQR30-1 #616-9330, OR EQUAL.
F3	TREE TRUNK MOUNTED LED LIGHT	54	LED	6,000	120V	70+	3000K	S	10 AFF	BRADLEY LIGHTING STEEL #RA-3/2-10-3000K-30-3000K-1-L-DB OR EQUAL. COORDINATE FRAME SIZE WITH LANDSCAPE ARCHITECT.
F4	POST-TOP LED FIXTURE	24	LED	2,408	120V	70+	3000K	PO	10 AFF	EATON ARBOR #ARB-61-LED-D14-BK-8030 OR EQUAL.
F5A	INDIRECT/DIRECT LED GARAGE CANOPY FIXTURE	33.5	LED	3,620	120V	70+	3000K	S	-	LITHONIA LIGHTING #VCPG-LED-V4-P1-30K-80CRI-T5M-MVOLT-SRM-UPL1-PIR-DNAXD OR EQUAL.

NOTES:

- VERIFY ALL FIXTURE MOUNTING IN THE FIELD PRIOR TO ORDERING MOUNTING HARDWARE.
- PROVIDE 5-YEAR WARRANTY ON FIXTURES, LED BOARDS AND DRIVER.
- PROVIDE 4" DIAMETER ROUND ALUMINUM POLE FOR ALL POLE-MOUNTED FIXTURES. SEE PLANS FOR QUANTITY AND LOCATIONS. FINISH TO MATCH POLE MOUNTED FIXTURES. LENGTH SHALL BE EQUAL TO MOUNTING HEIGHT.

ABBREVIATIONS:
 PO = POLE
 RW = RECESSED WALL
 S = SURFACE

LOADS		SEE NOTE	OUTLETS	VOLT-AMPS		BKR/POLE	BKR/POLE	VOLT-AMPS OUTLETS		SEE NOTE	LOADS
LTG/RECMISC	A	B	CKT	A	B	A	B	LTG/RECMISC	A	B	
MAIN	1	200/2	2	360	180	2	2				GOLF CART OUTLET
											WEST PAY STATION
LIGHTING WEST	8			335	435	5	7		180	3600	EAST PAY STATION
LIGHTING EAST	18					20/1	20/1				EVCS-1
IRRIGATION CONTROLLER	1			180		9	9				
SPARE						20/1	40/2		10	3600	EVCS-2
(--space--)						13	14			3600	
(--space--)						15	16				
(--space--)						17	18				
(--space--)						19	20				
(--space--)						21	22				
(--space--)						23	24				
(--space--)						25	26				
BATTERY	1			3252	40/2	27	28			5000	SOLAR PV INVERTER INV-1
				3252	29		30			5000	

NOTES:

- TOTAL OA = 16,507 VOLT-AMPS
 TOTAL OB = 16,067 VOLT-AMPS
 *LCL = 0 VOLT-AMPS

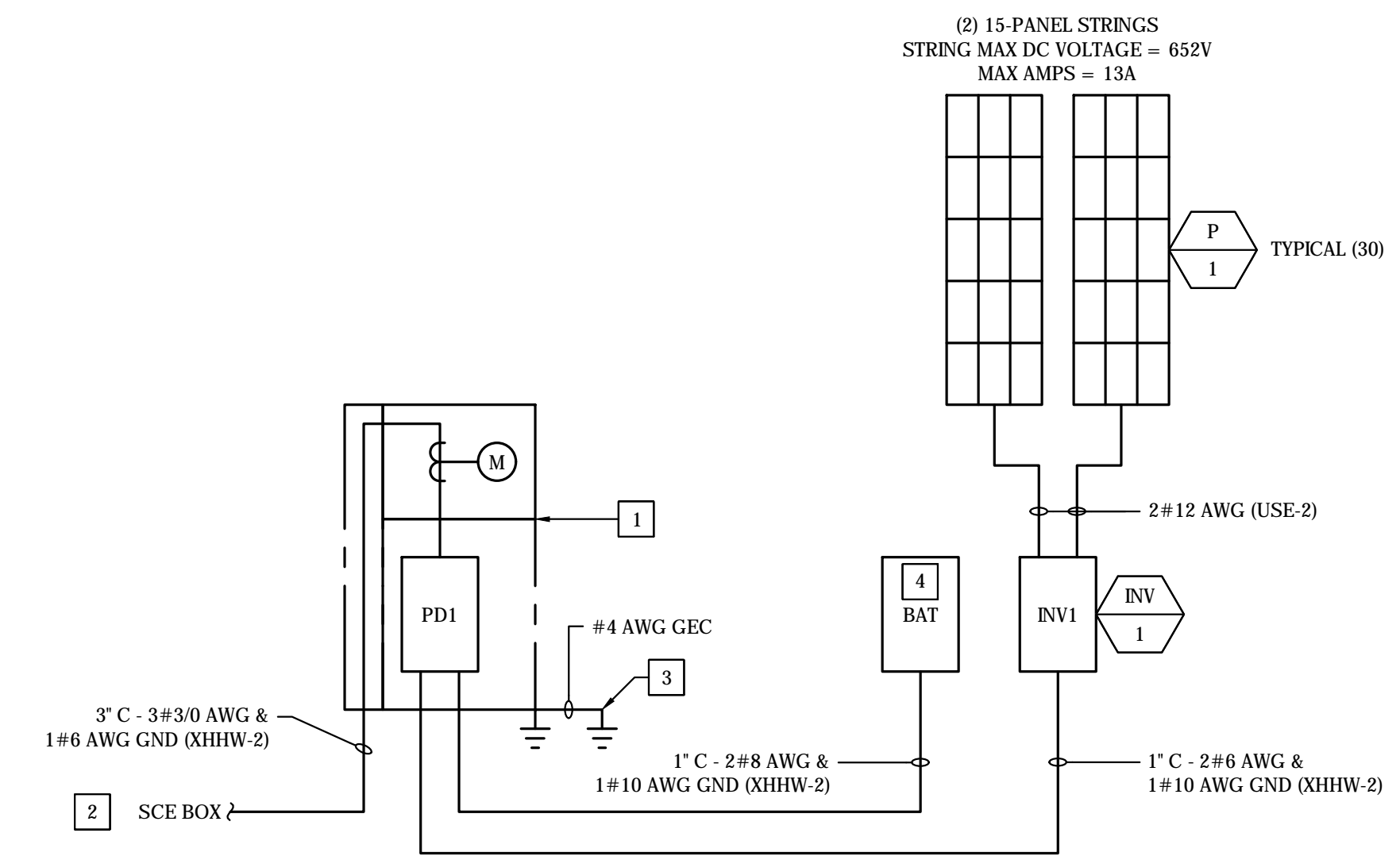
TOTAL PANEL = 32,574 VA @ 240V, 1Ø = 135.7 AMPS

PHOTOVOLTAIC PANEL SCHEDULE

NAME	MANUFACTURER AND MODEL	QTY	WEIGHT	MODULE DATA AT STANDARD TEST CONDITIONS (STC)							TOTAL INSTALLED KW (DC-CEC)	TOTAL INSTALLED KW (AC-STC)
				PEAK POWER	MAXIMUM SYSTEM VOLTAGE	OPEN-CIRCUIT VOLTAGE	SHORT-CIRCUIT CURRENT	MAXIMUM SERIES FUSE RATING	MAXIMUM POWER POINT VOLTAGE	MAXIMUM POWER POINT CURRENT		
P-1	LG NeON2 #LG335N1C-A6	30	41 LBS	335 W	1,000 V	41 V	10.49 A	20 A	34.1 V	9.83 A	311.1 W	10 KW

INVERTER SCHEDULE

NAME	MANUFACTURER AND MODEL	QTY	WEIGHT	CONTINUOUS OUTPUT POWER	NOMINAL AC VOLTAGE	MAX AC OUTPUT CURRENT	MAX OPEN-CIRCUIT DC VOLTAGE	MAX DC INPUT CURRENT
INV-1	FRONIUS PRIMO 10.1-1	1	82.5 LBS	9,995 VA	240V / 1PH	41.6 A	1,000 V	51 A



- NOTES**
- PROVIDE PEDESTAL PANEL WITH METER SECTION, MYERS POWER PRODUCTS #MEUG16-M200, 120/240V, 1 PHASE, 3 WIRE, 200A BUSSING, 30-CIRCUIT, IN A SAE 304 STAINLESS STEEL ENCLOSURE. PROVIDE WITH PAD MOUNT BASE #MEUG16-BASE, ANCHOR BOLTS #714548, AND 7-PIN PHOTOCELL RECEPTACLE.
 - COORDINATE WITH SCE FOR EXACT LOCATIONS AND REQUIREMENTS OF UTILITY OWNED EQUIPMENT.
 - PROVIDE (2) 3/4" X 10 FT COPPER-CLAD STAINLESS STEEL GROUND RODS AND #4 AWG COPPER GROUNDING ELECTRODE CONDUCTOR, CONNECTED WITH IRREVERSIBLE COMPRESSION CONNECTORS.
 - PROVIDE AC-COUPLED 19.4 kWh, 6000W BATTERY SYSTEM IN A NEMA 3R ENCLOSURE, SUNVERGE #SIS-6848 OR EQUAL. PROVIDE CELLULAR MONITORING.

1 SINGLE LINE DIAGRAM
 NO SCALE

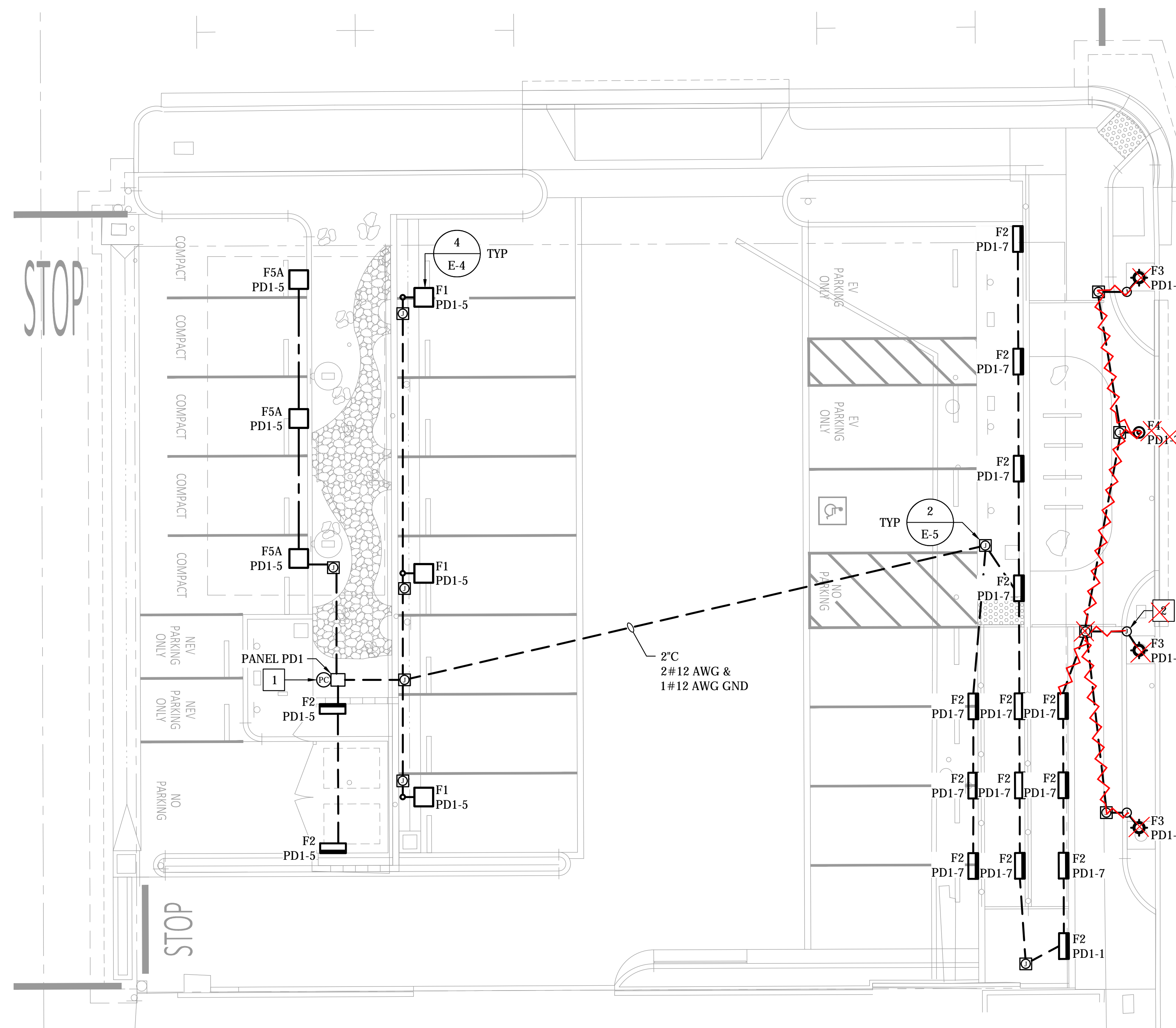
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			No.	DESCRIPTION	DATE										
DATE															

NOTES

- 1 PROVIDE OUTDOOR RATED PHOTOCELL WITH 7-PIN CONNECTION.
- 2 PROVIDE NEMA 3R JUNCTION BOX AT TREE BASE. COORDINATE WITH TREE FIXTURE MANUFACTURER FOR ADDITIONAL WIRING REQUIREMENTS.

GENERAL NOTES

1. ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40, AT LEAST TRADE SIZE 1". BURIED MINIMUM 24" BELOW GRADE. SEE DETAILS 1 AND 2 ON SHEET E-5.



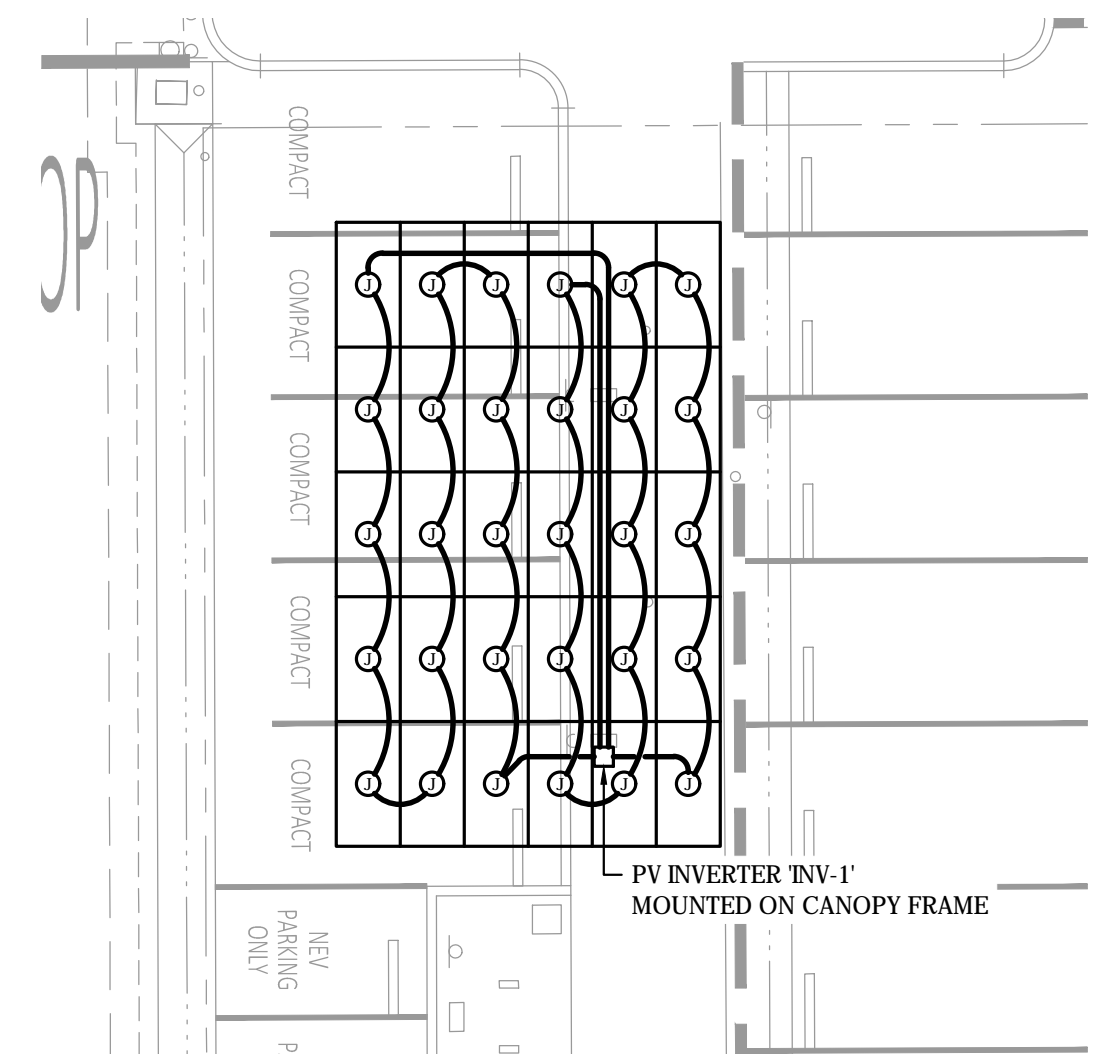
1 LIGHTING PLAN
1" = 10'-0"



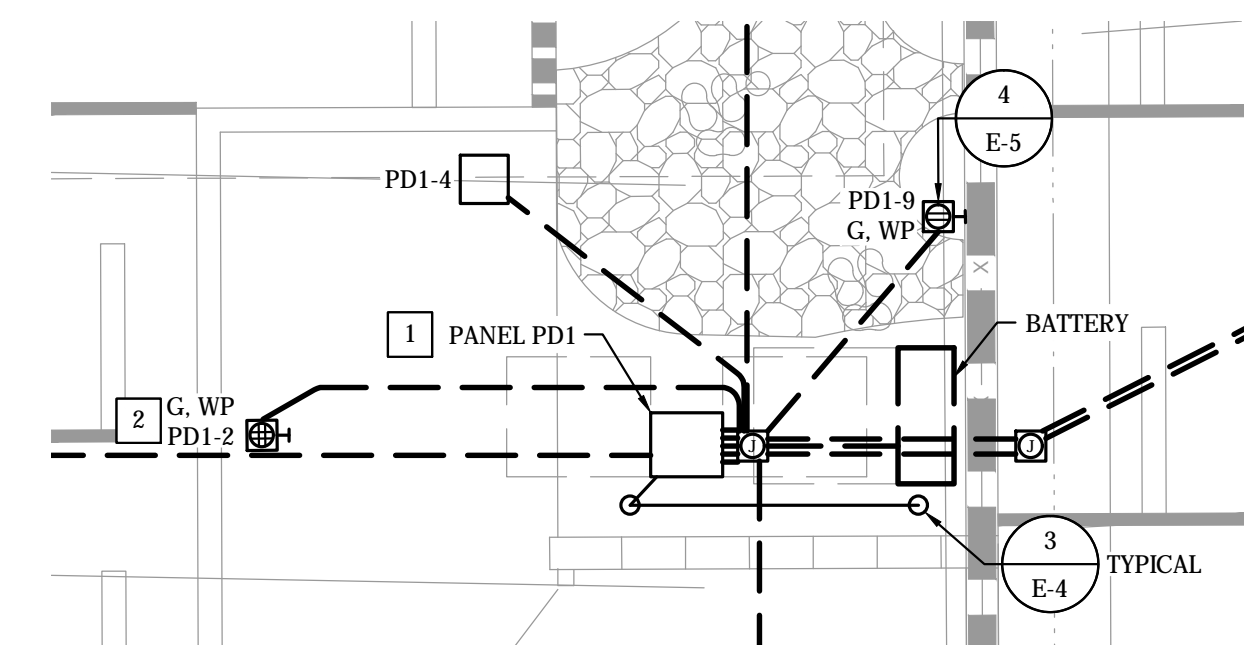
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REVISIONS																				
No.	DESCRIPTION	DATE																		

- NOTES**
- 1 PROVIDE HANDHOLE PULLBOX.
 - 2 PROVIDE LEVEL 2 ELECTRIC VEHICLE SINGLE PORT BOLLARD-MOUNT CHARGING STATION, CHARGE POINT #CT4011. SEE DETAIL 6 ON SHEET E-5 FOR MOUNTING.
 - 3 PROVIDE SOLAR-POWERED MULTI-SPACE PAY STATION, IPS GROUP #MS1. SEE DETAIL 6 ON SHEET E-5 FOR MOUNTING.
 - 4 PROVIDE 10 KW SOLAR ARRAY MOUNTED TO PRE-ENGINEERED SEMI-CANTILEVERED CARPORT.

- GENERAL NOTES**
- 1 ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40, AT LEAST TRADE SIZE 1", BURIED MINIMUM 24" BELOW GRADE. SEE DETAILS 1 AND 2 ON SHEET E-5.

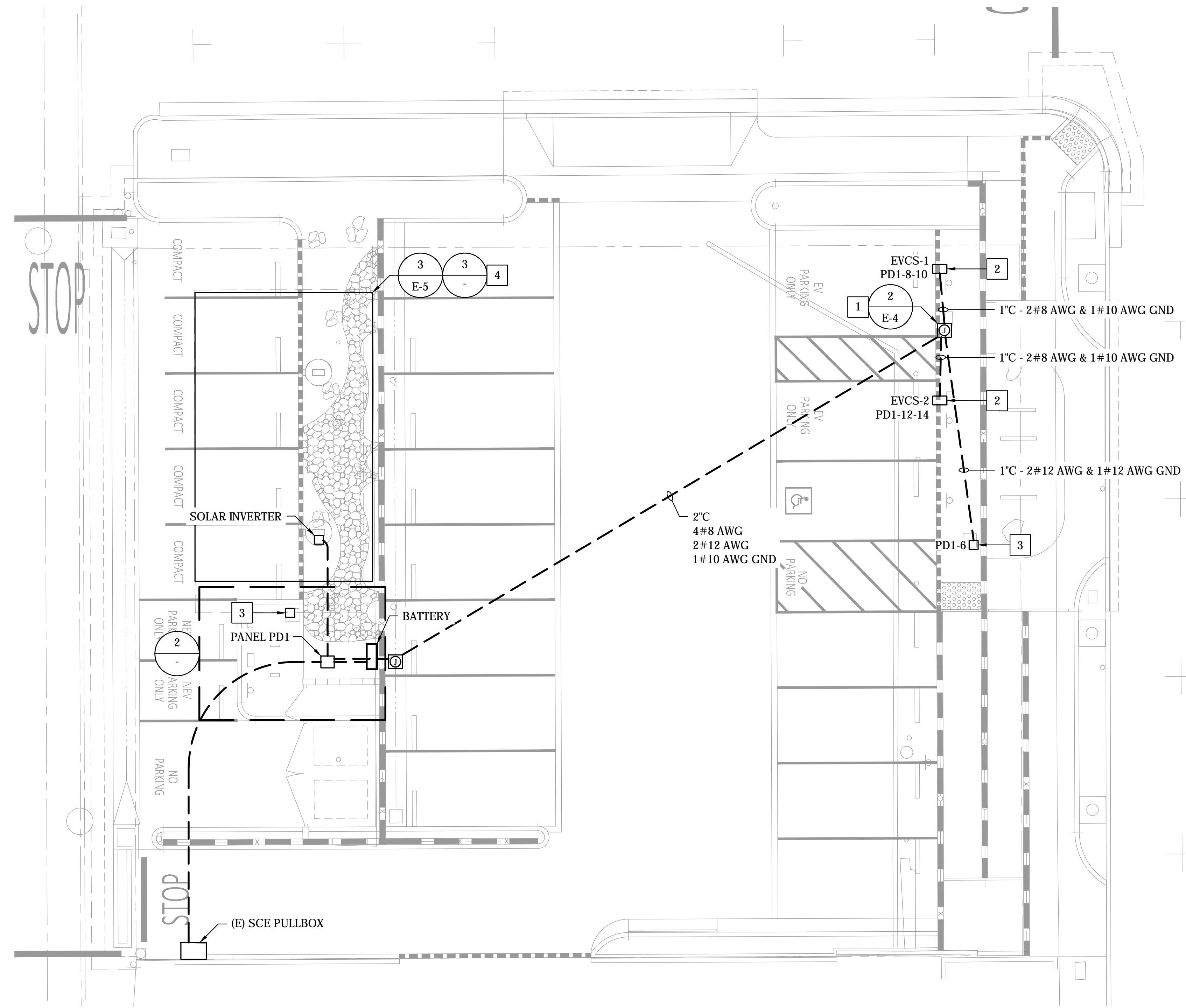


3 SOLAR PV POWER PLAN
1" = 10'-0"



- NOTES**
- 1 PROVIDE MINIMUM (4) 2" AND (8) 1" CONDUIT STUB-OUTS FROM PANELBOARD BASE TO ACCESSIBLE HANDHOLE. CAP SPARE CONDUITS IN ACCESSIBLE HANDHOLE.
 - 2 PROVIDE 30" TALL QUADRUPEX OUTDOOR POWER PEDESTAL WITH WHILE-IN-USE COVER, LEGRAND WIREMOLD #XPP1G30C-SV OR EQUAL.

2 ENLARGED POWER PLAN
1/4" = 1'-0"



1 POWER PLAN
1" = 10'-0"



BENCH MARK:
No. **QY11328**, ELEV. **15.323 FEET**
DATE ADJ. **2005**, QUAD. **HAWTHORNE/TORRANCE**

Underground Service Alert
DigAlert
CALL: TOLL FREE **811**
TWO WORKING DAYS BEFORE YOU DIG
IMPORTANT NOTICE
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REVISIONS		
No.	DESCRIPTION	DATE

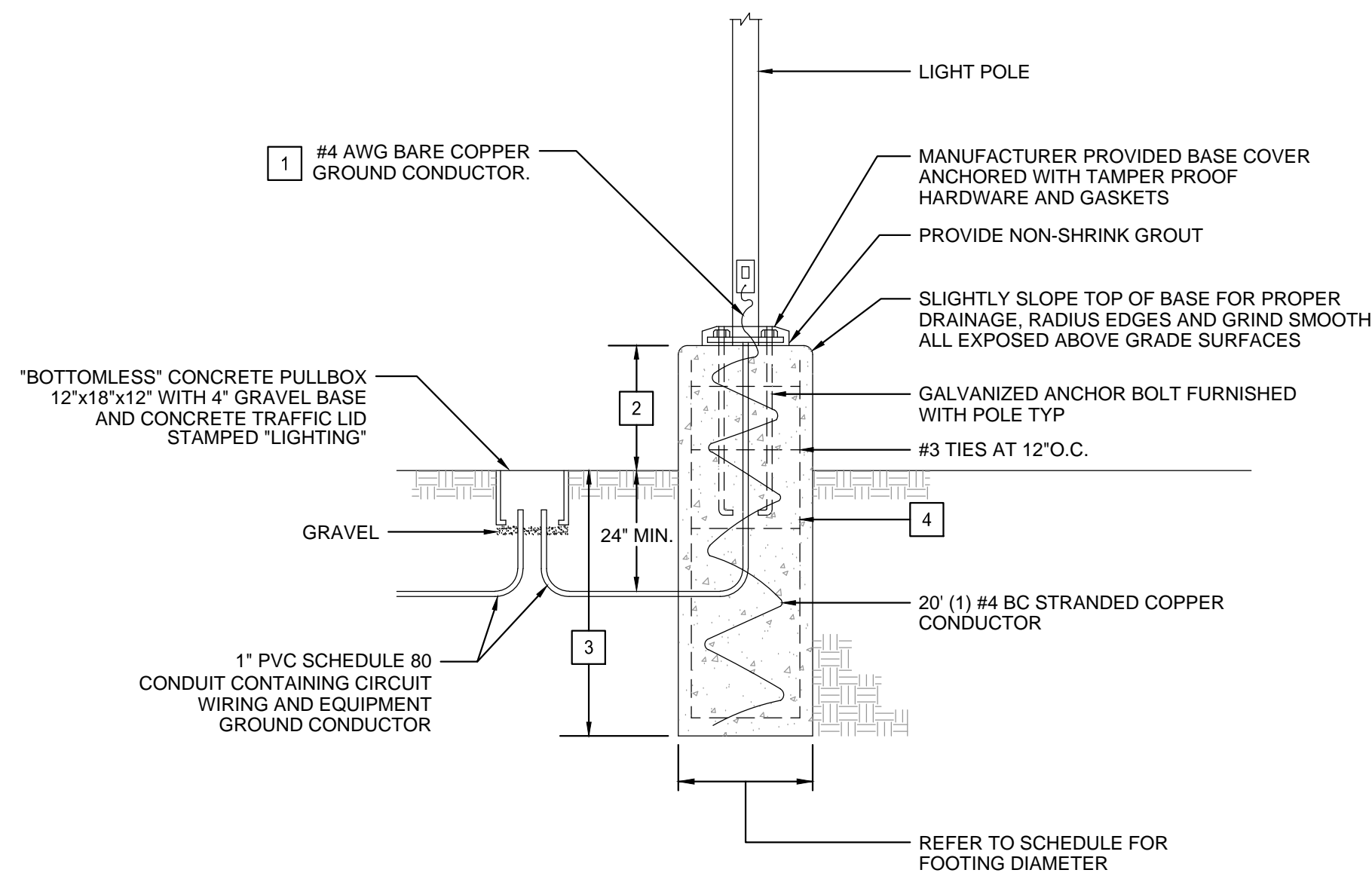


PLANS PREPARED BY:
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p2sinc.com
ALEXANDER, M. H. SASSOON, P.E. RCE E-22639
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CITY OF HERMOSA BEACH
PUBLIC WORKS DEPARTMENT
RECOMMENDED FOR PERMIT ISSUANCE:
J. Okami
10/03/2024

PUBLIC IMPROVEMENT PLANS
PARKING LOT "D"
1331 MANHATTAN AVENUE
SITE POWER PLAN

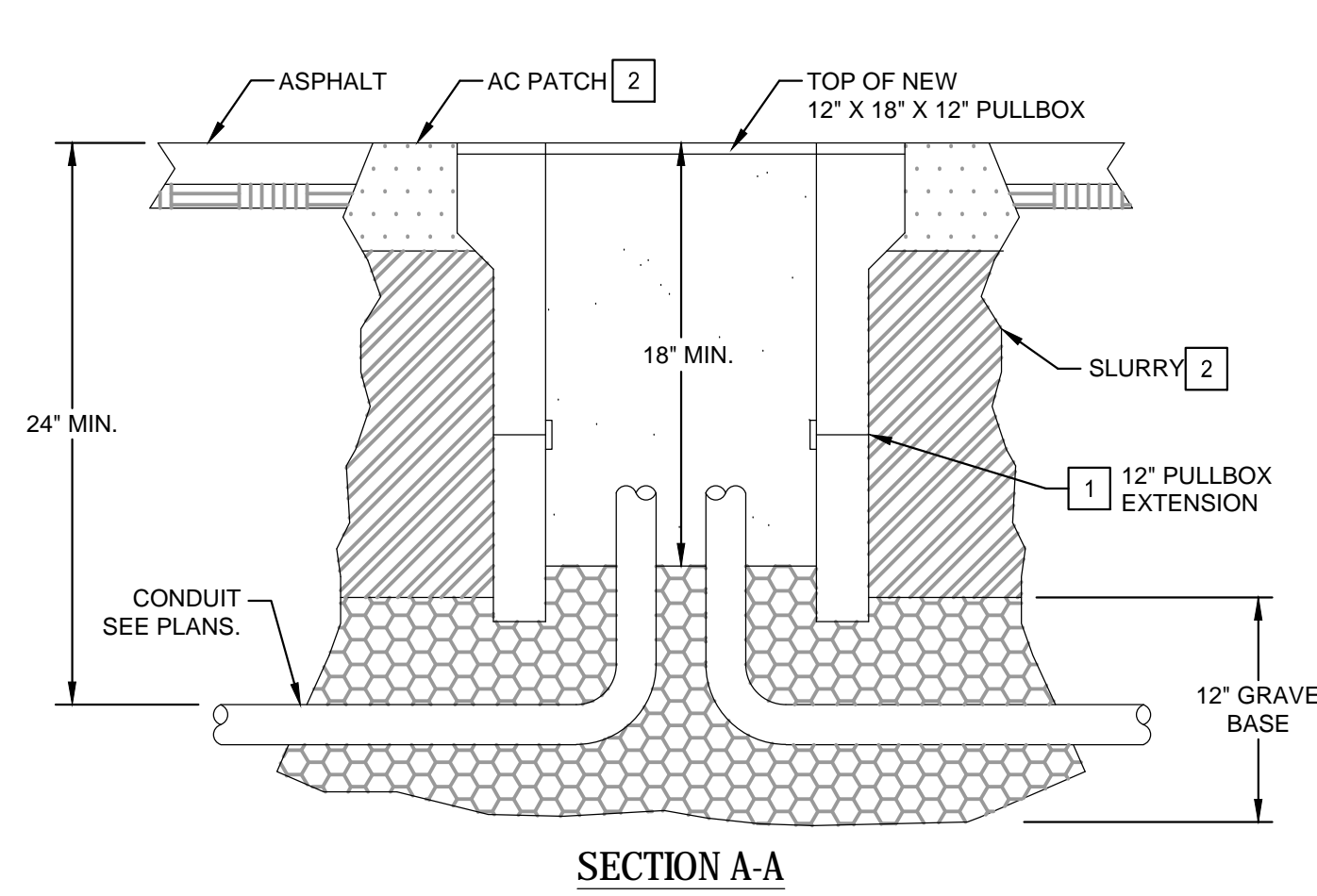
FILE NUMBER
XXXXX-CIVIL
E-3
SHT. 28 OF 31



- KEY NOTES**
- 1 GROUND POLE TO GROUND CONDUCTORS IN CONDUITS.
 - 2 REFER TO SCHEDULE FOR ABOVE GRADE HEIGHT.
 - 3 REFER TO SCHEDULE FOR FOOTING LENGTH BELOW GRADE.
 - 4 VERTICAL REBAR 3" CLEAR MINIMUM. REFER TO SCHEDULE FOR SIZES AND QUANTITIES.

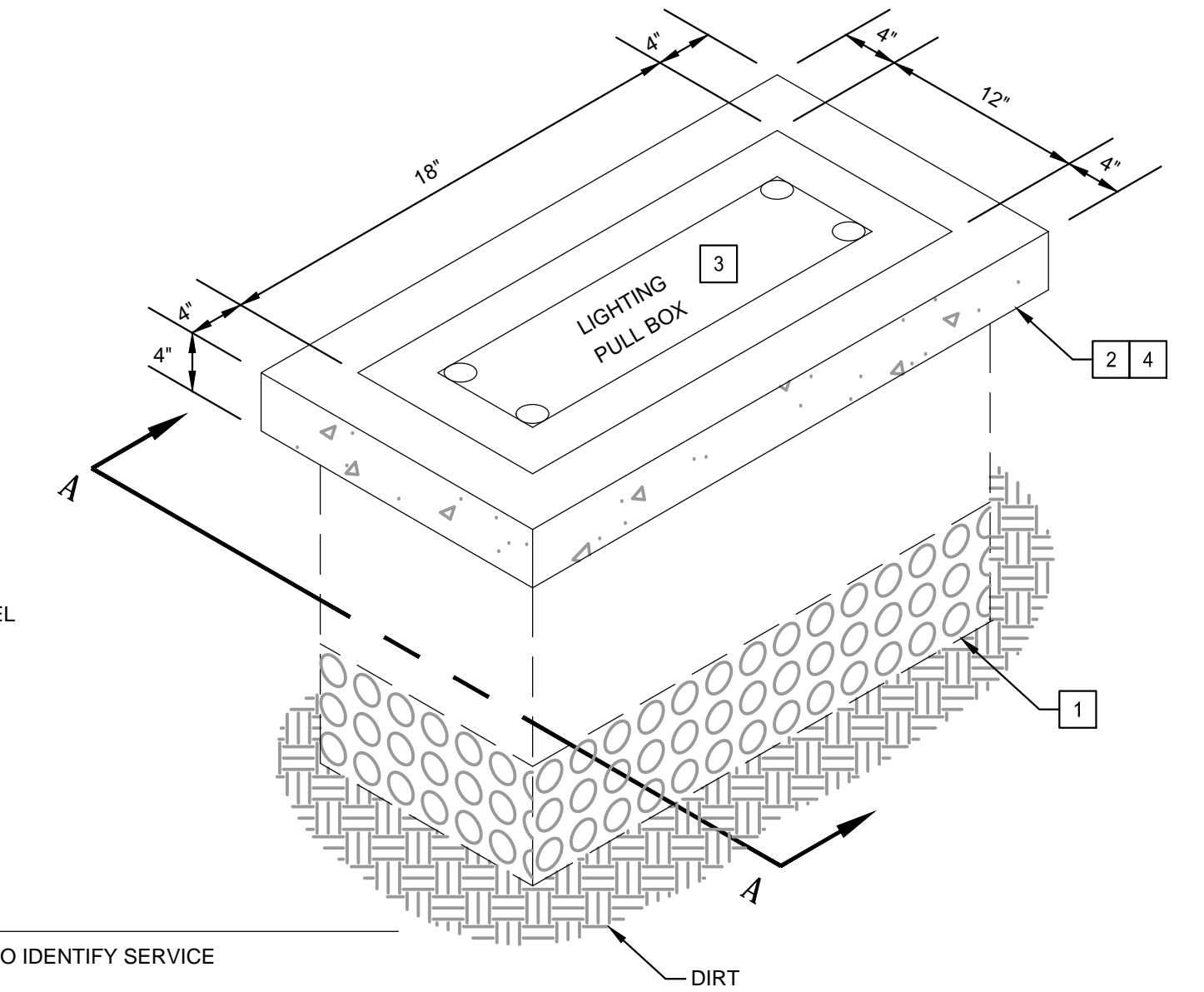
LIGHT POLE FOOTING SCHEDULE				
POLE HEIGHT	FOOTING HEIGHT BELOW GRADE	FOOTING DIAMETER	FOOTING HEIGHT ABOVE GRADE	VERTICAL REBAR
0'-0" UP TO 15'-0"	6'-0"	2'-0"	6"	(6) #6
15'-1" UP TO 30'-0"	8'-0"	2'-6"	2'-6"	(8) #6

4 LIGHT POLE FOOTING
NO SCALE

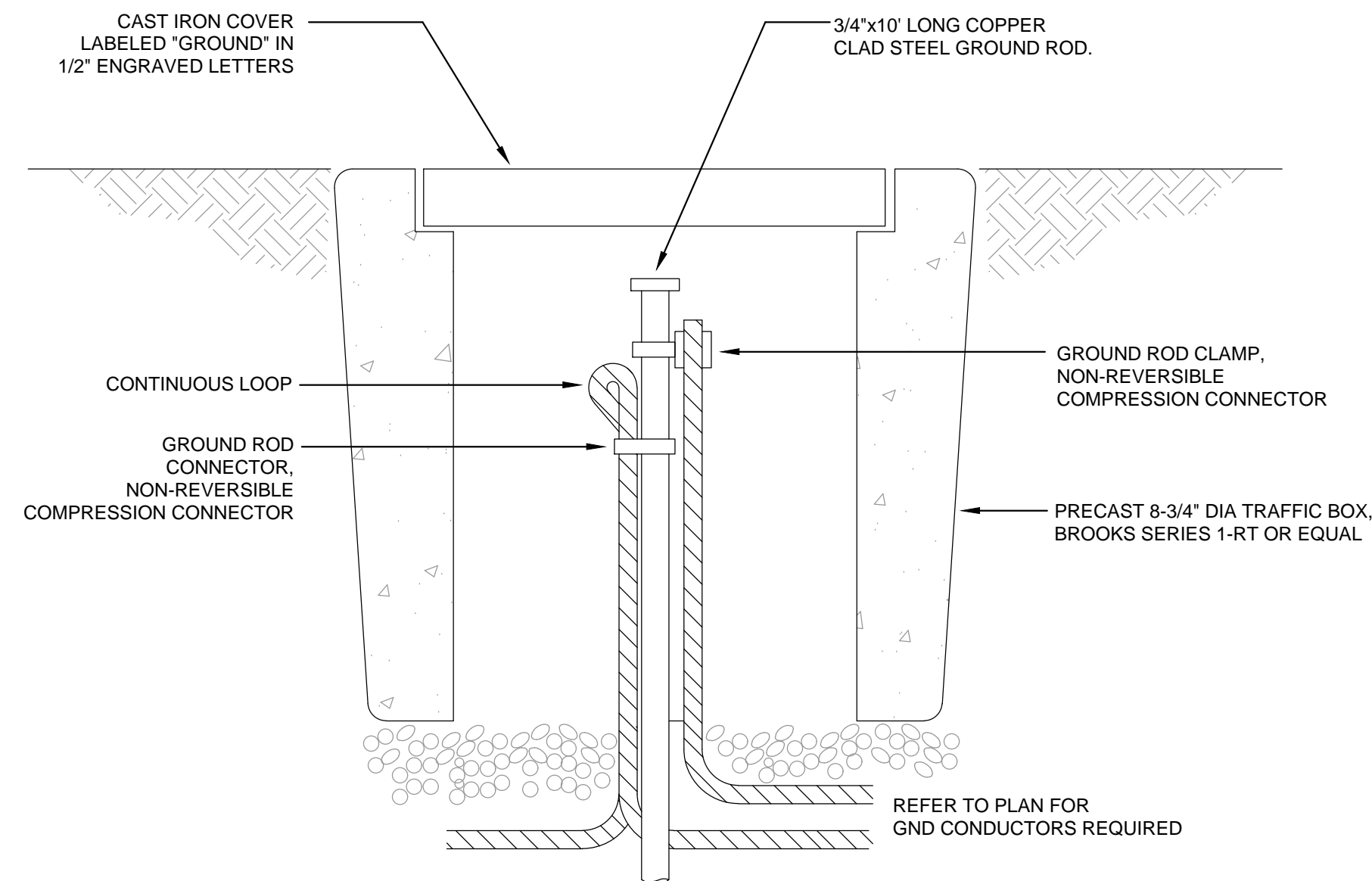


- KEY NOTES**
- 1 PULL BOX BASE. SET ON PEA GRAVEL BASE BENEATH PULL BOX. (PROVIDE EXTENSIONS AS REQ'D. IN FIELD) MIN. OF (1) EXTENSION.
 - 2 POUR 4" CONCRETE OR AC PATCH PAD AROUND EACH PULL BOX TO PREVENT SINKING BELOW GRADE, AND SLURRY COAT AROUND. SEE SECTION A-A.
 - 3 PROVIDE 6'-0", #6 GROUND BOND JUMPER TO COVER FROM SERVICE GROUND CONDUCTOR WITH NECESSARY APPROVED HARDWARE.
 - 4 WATER TIGHT INSTALLATION-FOAM SEAL CONDUIT OPENINGS.

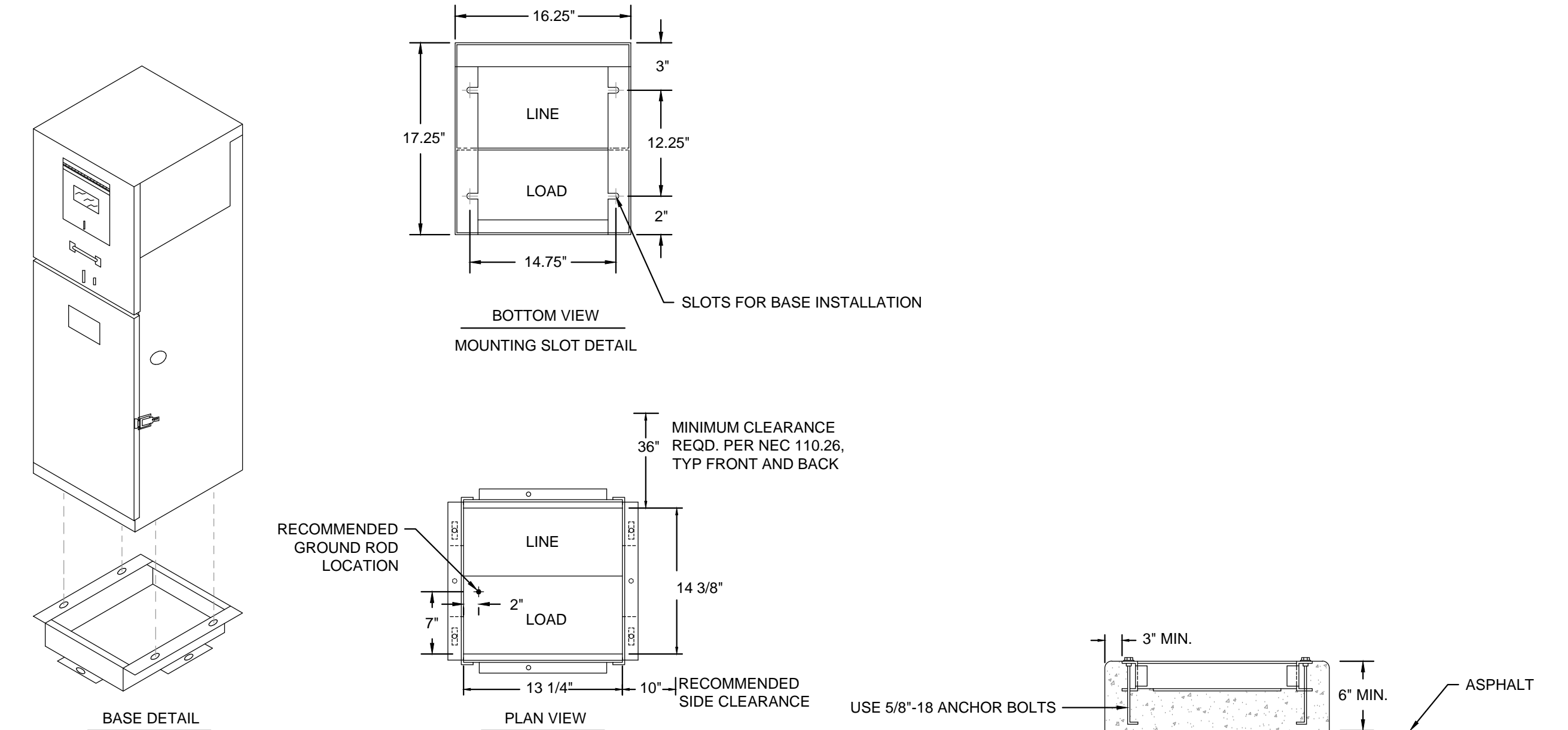
- NOTES**
- 1. LABEL EACH COVER TO IDENTIFY SERVICE
 - 2. DO NOT MIX POWER & L.V. COMM. CONDUITS.



2 HANDHOLE
NO SCALE



3 GROUND TEST WELL
NO SCALE



1 PEDESTAL PANEL MOUNTING
NO SCALE

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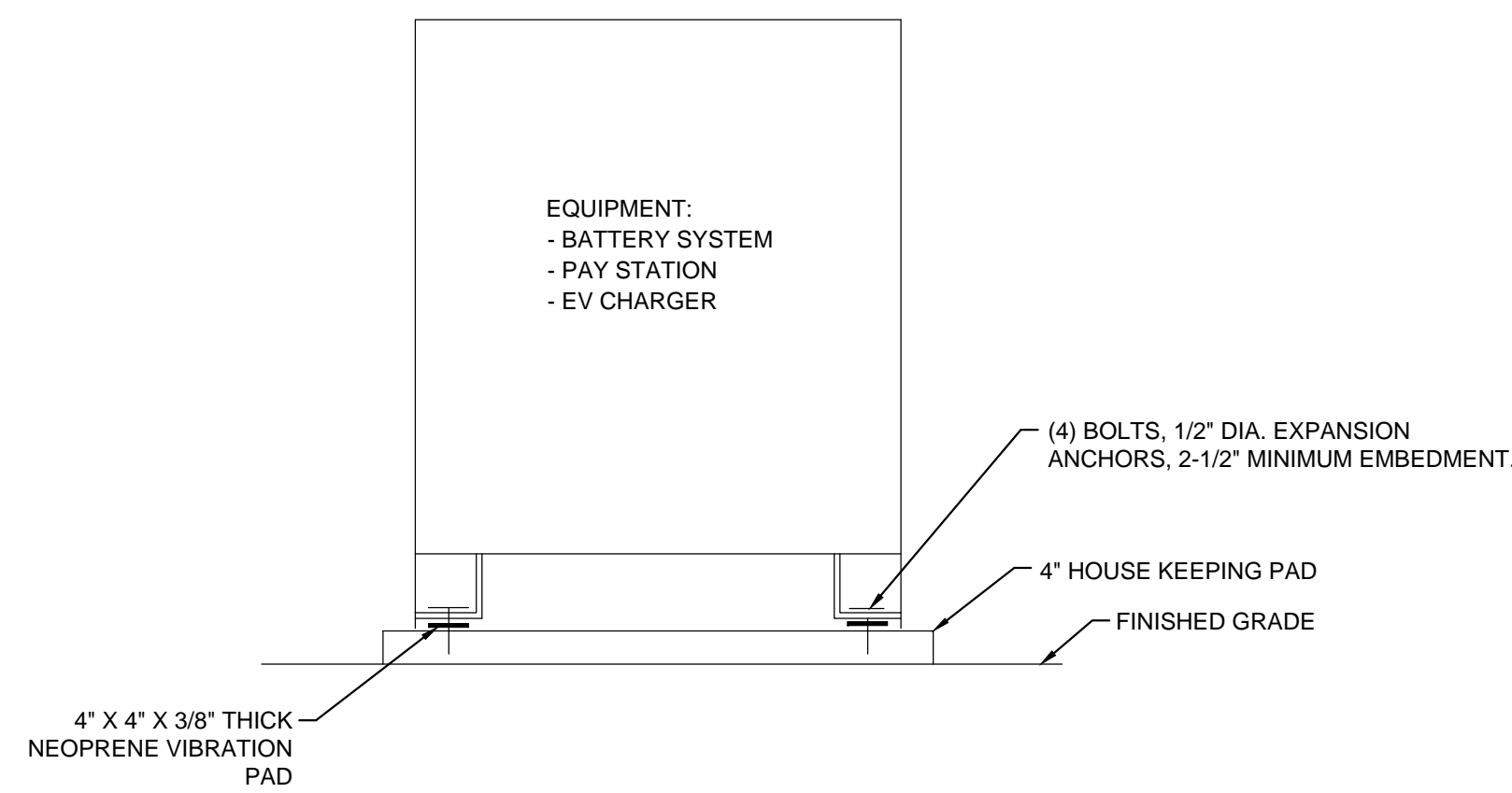


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PUBLIC IMPROVEMENT PLANS
PARKING LOT "D"
1331 MANHATTAN AVENUE
DETAILS

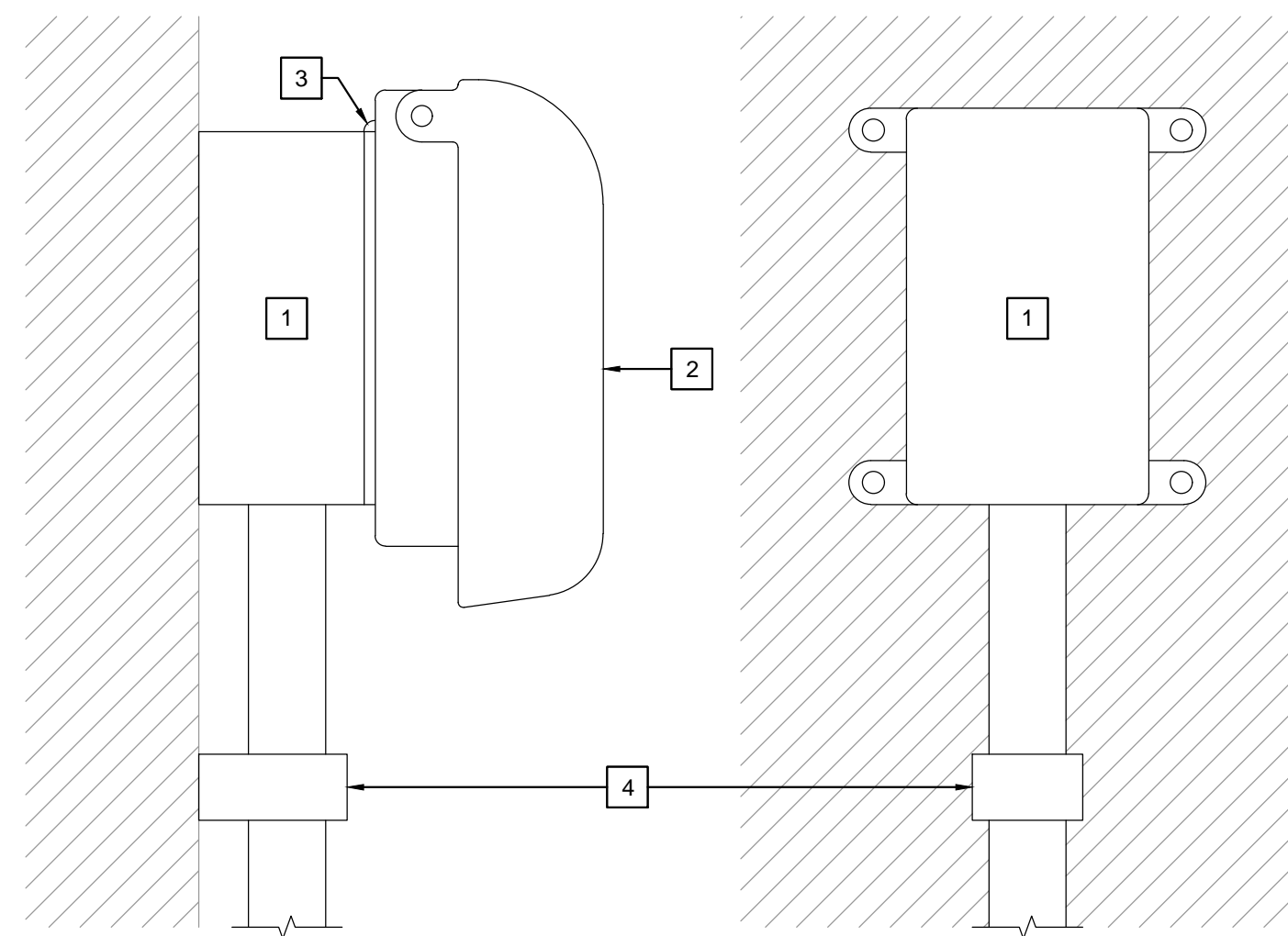
FILE NUMBER
XXXXX-CIVIL
E-4
SHT. 29 OF 31



NOTES

- SPECIAL INSPECTION OF EXPANSION ANCHOR INSTALLATION IS REQUIRED.
- EXPANSION ANCHORS SHALL BE GRADE SAE 304 STAINLESS STEEL, HILTI-KWIK BOLT TZ2 OR EQUAL.
- MINIMUM 12 BOLT DIAMETERS SHALL BE MAINTAINED FROM BOLT TO EDGE OF HOUSE KEEPING PAD.

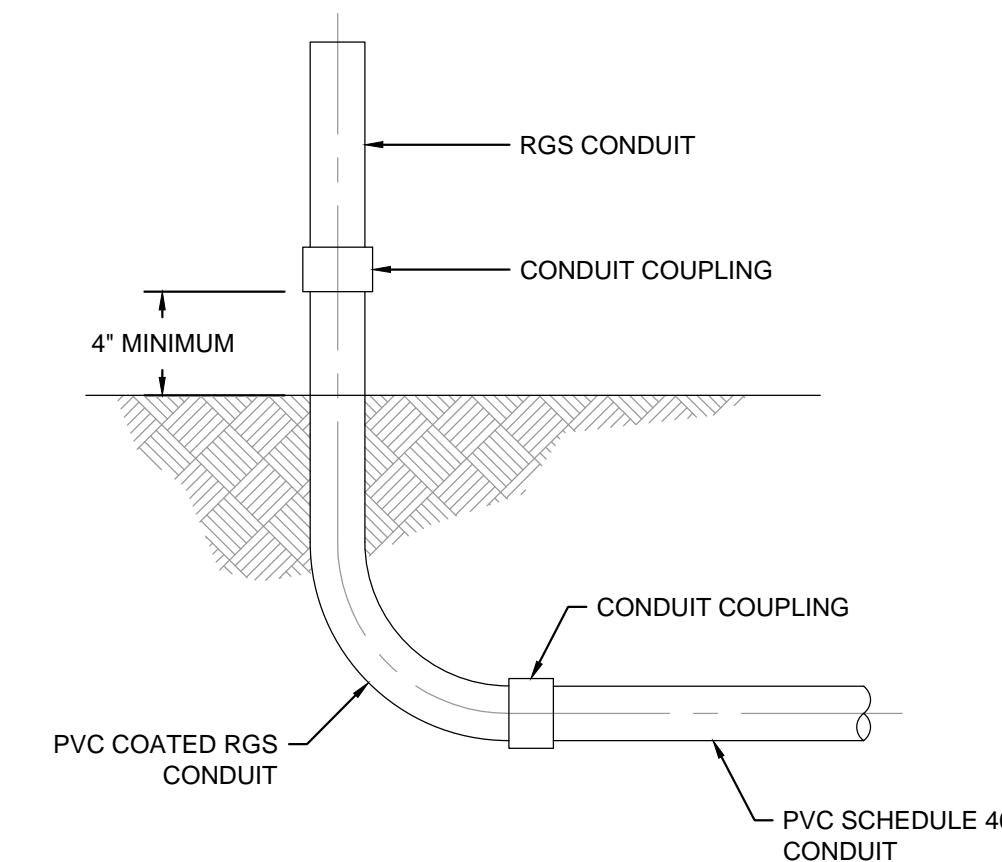
6 EQUIPMENT MOUNTING PAD
NO SCALE



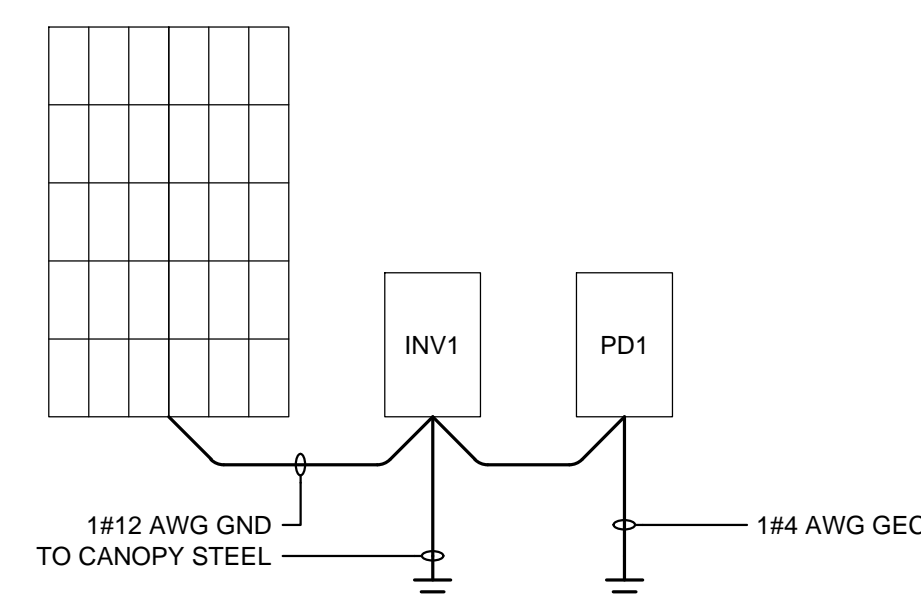
NOTES

- WEATHERPROOF 1-GANG CAST ALUMINUM JUNCTION BOX WITH SELF-THREADING GROUND SCREW. ATTACH TO SURFACE USING (4) MOUNTING LUGS WITH FASTENERS LISTED FOR THE WALL MATERIAL. BOX FINISH: POWDER-COAT, GRAY.
- WEATHERPROOF 1-GANG CAST ALUMINUM WHILE-IN-USE LOCKABLE COVER AND NEOPRENE GASKET. FINISH TO MATCH JUNCTION BOX.
- 1/4" SILICONE SEALANT CAULKING BEAD ALONG LEFT, TOP, AND RIGHT SIDES OF BOX AND COVER. COLOR TO MATCH JUNCTION BOX AND COVER.
- 3/4" RGS WITH SPACER CONDUIT STRAP. PAINT TO MATCH ADJACENT FINISHES.

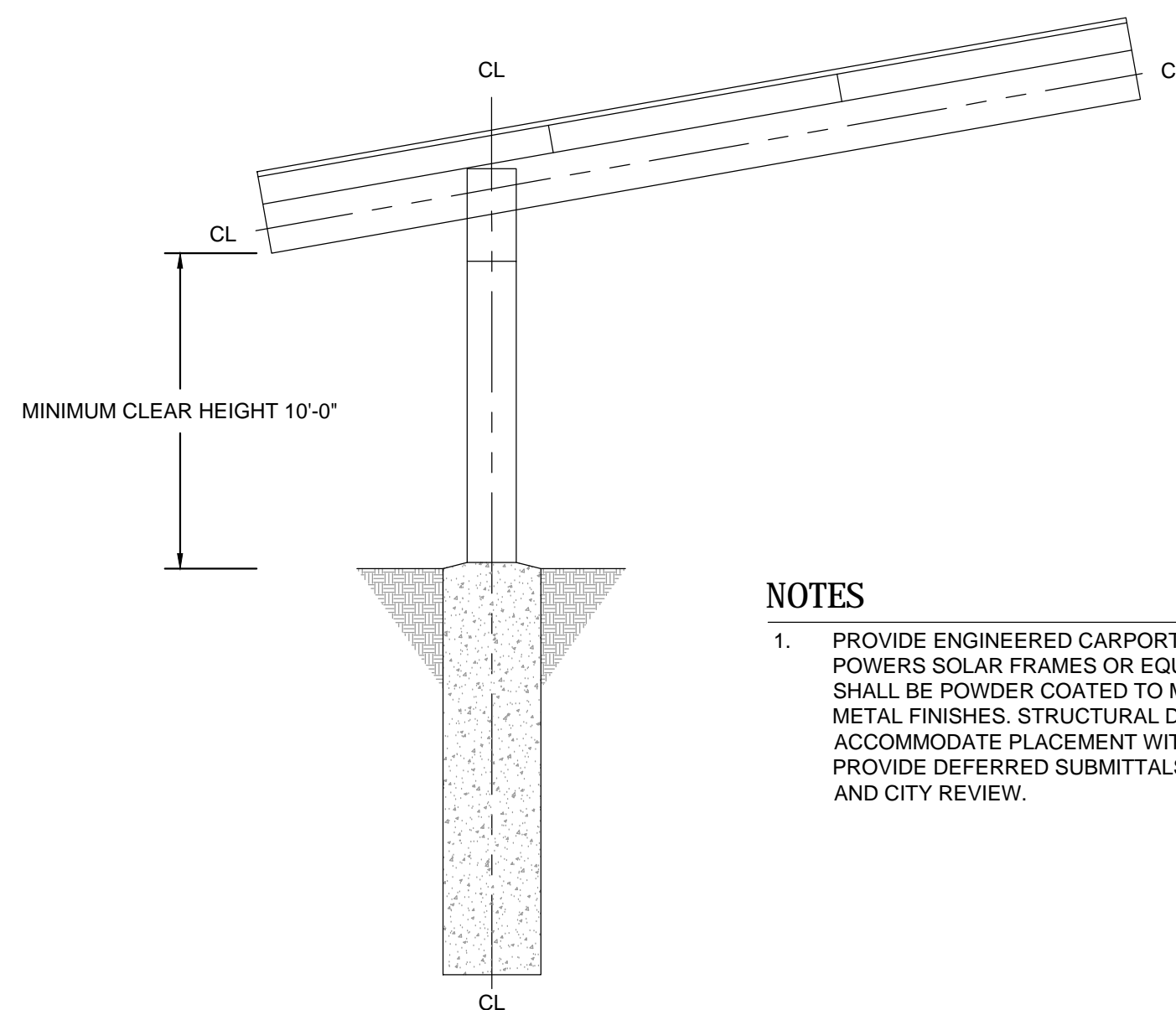
4 SURFACE OUTDOOR RECEPTACLE
NO SCALE



2 PVC TO RGS CONDUIT RISER DETAIL
NO SCALE



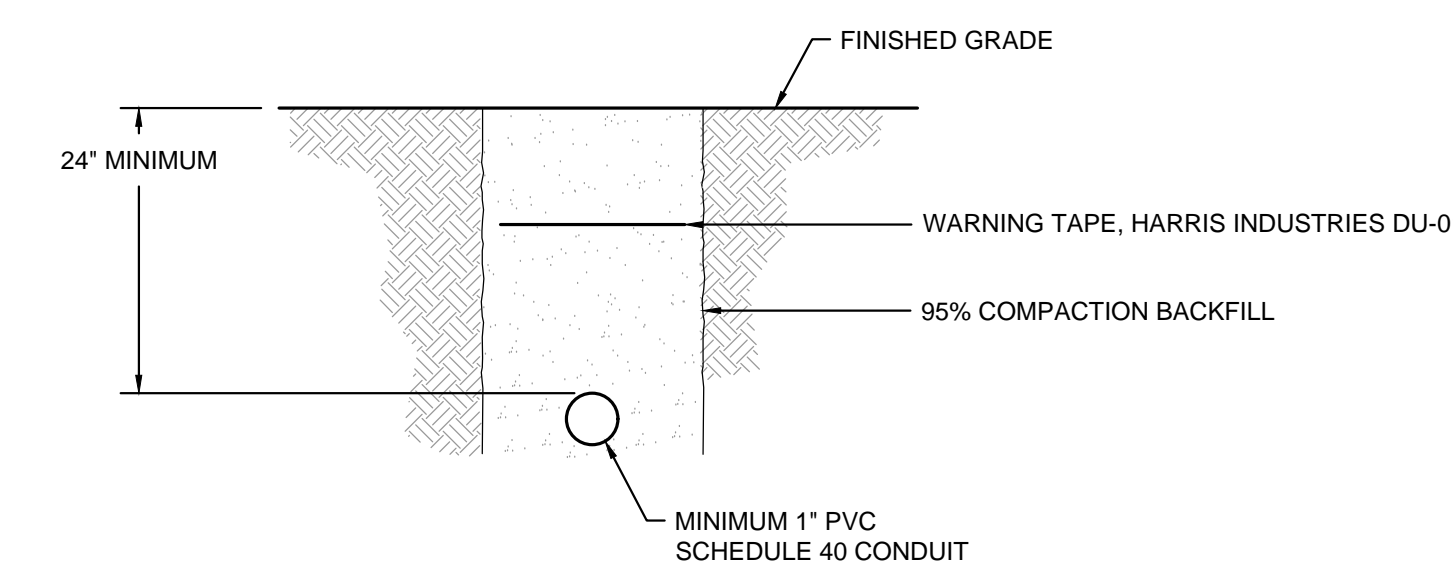
5 SOLAR PV GROUNDING DIAGRAM
NO SCALE



NOTES

- PROVIDE ENGINEERED CARPORT FOR SOLAR ARRAY. POWERS SOLAR FRAMES OR EQUAL. METAL FRAMING SHALL BE POWDER COATED TO MATCH ADJACENT METAL FINISHES. STRUCTURAL DESIGN TO ACCOMMODATE PLACEMENT WITHIN THE BIOSWALE. PROVIDE DEFERRED SUBMITTALS FOR ENGINEER AND CITY REVIEW.

3 SEMI-CANTILEVER SOLAR CARPORT
NO SCALE

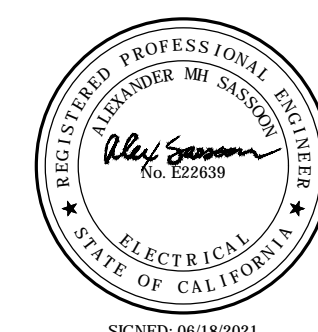


1 CONDUIT DUCT BANK
NO SCALE

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PUBLIC IMPROVEMENT PLANS
PARKING LOT "D"
1331 MANHATTAN AVENUE
DETAILS

FILE NUMBER
XXXXX-CIVIL
E-5
SHT. 30 OF 31

A. GENERAL INFORMATION

01 Project Location (city)	HERMOSA BEACH	04 Total Illuminated Hardscape Area (ft ²)	10,000
02 Climate Zone	6		
03 Outdoor Lighting Zone per Title 24, Part 1 §10-114 or as designated by Authority Having Jurisdiction (AHJ):			
<input type="checkbox"/> LZ-0: Very Low - Undeveloped Parkland <input type="checkbox"/> LZ-2: Moderate - Rural Areas <input type="checkbox"/> LZ-4: High - Must be reviewed by CA Energy Commission for Approval			
<input type="checkbox"/> LZ-1: Low - Developed Parkland <input checked="" type="checkbox"/> LZ-3: Moderately High - Urban Areas			

B. PROJECT SCOPE

Table Instructions: Include any outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)(2) for alterations.

My project consists of:

01	02	
<input checked="" type="checkbox"/> New Lighting System	Must Comply with Allowances from §140.7.	
<input type="checkbox"/> Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)? <input type="radio"/> Yes <input type="radio"/> No	
03	04	05
% of Existing Luminaires Being Altered ¹	Sum Total of Luminaires Being Added or Altered	Calculation Method
700	298.5	

¹FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100

C. COMPLIANCE RESULTS

Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Calculation of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)(2)						Compliance Results		
01	02	03	04	05	06	07	08	09
General Hardscape Allowance §140.7(d)(1) (See Table I)	Per Application §140.7(d)(2) (See Table J)	Sales Frontage §140.7(d)(2) (See Table K)	Ornamental §140.7(d)(2) (See Table L)	Per Specific Area §140.7(d)(2) (See Table M)	Existing Power §141.0(b)(2) (See Table N)	Total Allowed (Watts)	Total Actual (Watts)	07 Must be ≥ 08
700						700	298.5	COMPLIES
Cutoff Compliance (See Table G for Details)						Not Applicable		
Controls Compliance (See Table H for Details)						COMPLIES with Exceptional Conditions		

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

Table F. Indicates a dropdown selection with a * requiring a note describing the compliance approach, but no notes have been entered.

Table F. Outdoor Lighting Fixture Schedule Permit Applicant Notes:
 F3: null

Table H. Outdoor Lighting Controls Permit Applicant Notes:
 PARKING LOT: Not permitted by health & safety to be turned off or reduced. In the public right-of-way.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

Table Instructions: For new or altered lighting systems demonstrating compliance with §140.7 (ie Table I has expanded for input), include all luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)(2) (ie Table N has expanded for input), include only new luminaires being installed and replacement luminaires being installed as part of the project scope (ie, do not include existing luminaires remaining or existing luminaires being moved).

Designed Wattage:

01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Watts per luminaire ^{1,2}	How Wattage is determined	Total number luminaires ²	Luminaire Status ³	Excluded per §140.7(a)	Design Watts	Cutoff Req. ≥ 6,200 initial lumen output §130.2(b) ⁴	Field Inspector
F1	COBRA HEAD <input type="checkbox"/> Linear	66	Mfr. Spec ¹	3	New	<input type="checkbox"/>	198	NA: <6,200 lumens	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
F2	RECESSED STEP LIGHT <input type="checkbox"/> Linear	18	Mfr. Spec ¹	16	New	<input checked="" type="checkbox"/>		NA: <6,200 lumens	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
F3	TREE LIGHT <input type="checkbox"/> Linear	53	Mfr. Spec ¹	3	New	<input checked="" type="checkbox"/>		NA: <6,200 lumens	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
F4	POST-TOP <input type="checkbox"/> Linear	24	Mfr. Spec ¹	1	New	<input checked="" type="checkbox"/>		NA: <6,200 lumens	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
F5	CANOPY <input type="checkbox"/> Linear	33.5	Mfr. Spec ¹	3	New	<input type="checkbox"/>	100.5	NA: <6,200 lumens	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
						<input type="checkbox"/>	0		
							Total Designed Watts:	298.5	

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
 EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(c).
 Table Continued

Table Continued

Table Instructions: Please complete this table for areas using the allowance calculations per §140.7. General Hardscape Allowance is per Table 140.2-A while "Use it or lose it" Allowances are per Table 140.7-B. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.

"Use it or lose it" Allowances (select all that apply)								
<input checked="" type="checkbox"/> General Hardscape Allowance								
<input type="checkbox"/> Per Application <input type="checkbox"/> Sales Frontage <input type="checkbox"/> Ornamental <input type="checkbox"/> Per Specific Area								
Table I (below)		Table J		Table M				
Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 2 & 3)								
02	03	04	05	06	07	08	09	10
Area Description	Surface Type	Illuminated Area (ft ²)	Allowed Density (W/ft ²)	Area Allowance (Watts)	Perimeter Length (ft)	Allowed Density (W/ft)	Linear Allowance (Watts)	Total General AWA + LWA (Watts)
PARKING LOT	Asphalt	10,000	0.025	250	400	0.25	100	350
Initial Wattage Allowance for Entire Site (Watts):								350
Total General Hardscape Allowance (Watts):								700

J. LIGHTING ALLOWANCE: PER APPLICATION
 This Section Does Not Apply

K. LIGHTING ALLOWANCE: SALES FRONTAGE
 This Section Does Not Apply

L. LIGHTING ALLOWANCE: ORNAMENTAL
 This Section Does Not Apply

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA
 This Section Does Not Apply

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)
 This Section Does Not Apply

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCL/

YES	NO	Form/Title	Field Inspector
			Pass Fail
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCL-LTO-01-E - Must be submitted for all buildings.	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCL-LTO-02-E - Must be submitted for a lighting control system; or for an Energy Management Control System (EMCS), to be recognized for compliance.	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/atcca/providers.html>

YES	NO	Form/Title	Field Inspector
			Pass Fail
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls area added to ≤ 20 luminaires.	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Watts per luminaire ^{1,2}	How Wattage is determined	Total number luminaires ²	Luminaire Status ³	Excluded per §140.7(a)	Design Watts	Cutoff Req. ≥ 6,200 initial lumen output §130.2(b) ⁴	Field Inspector

¹FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c).
²For linear luminaires, wattage should be indicated as W/ft instead of Watts/luminaire. Total linear feet for the luminaire should be indicated in column 05 instead of number of luminaires.
³Select "New" for new luminaires in a new outdoor lighting project or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.
⁴Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output ≥ 6,200 unless exempted by §130.2(b).

G. CUTOFF REQUIREMENTS (BUG)
 This Section Does Not Apply

H. OUTDOOR LIGHTING CONTROLS

Table Instructions: Complete this table demonstrating compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application. When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank. For each requirement in columns 02 through 04, do not leave the field blank, instead select NA or Exempt* from the dropdown list to indicate not applicable or an exemption.

Mandatory Controls				
01	02	03	04	05
Area Description	Shut-Off §130.2(c)(1)	Auto-Schedule §130.2(c)(2)	Motion Sensor §130.2(c)(3)	Field Inspector
PARKING LOT	Photocontrol	Exempt *	Exempt *	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
 EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(c).
 PARKING LOT Not permitted by health & safety to be turned off or reduced. In the public right-of-way.

I. LIGHTING POWER ALLOWANCE (per §140.7)
 Table Continued

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete

Documentation Author Name: ALEXANDER SASSOON	Documentation Author Signature: <i>Alex Sassoon</i>
Company: P2S INC	Signature Date: 06-08-2021
Address: 5000 E SPRING STREET	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: LONG BEACH, CA 90815	Phone: (562)497-2999

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

- The information provided on this Certificate of Compliance is true and correct.
- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
- The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: ALEXANDER SASSOON	Responsible Designer Signature: <i>Alex Sassoon</i>
Company: P2S INC	Date Signed: 06-08-2021
Address: 5000 E SPRING STREET	License: E-22639
City/State/Zip: LONG BEACH, CA 90815	Phone: (562)497-2999

BENCH MARK:
 No. **QY11328**, ELEV. **15.323 FEET**
 DATE ADJ. **2005**, QUAD. **HAWTHORNE/TORRANCE**

Underground Service Alert
 DigAlert
 CALL: TOLL FREE 811
 TWO WORKING DAYS BEFORE YOU DIG
IMPORTANT NOTICE
 SECTION 4212/4217 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A PERMIT TO EXCAVATE WILL BE VALID.

REVISIONS

No.	DESCRIPTION	DATE
△		
△		



PLANS PREPARED BY:
P2S ENG
 Long Beach | Los Angeles
 San Diego | San Jose
 p2sinc.com
 ALEXANDER, M. H. SASSOON, P.E. RCE E-22639
 DATE 06/18/2021

CITY OF HERMOSA BEACH
 PUBLIC WORKS DEPARTMENT
 RECOMMENDED FOR PERMIT ISSUANCE:
J. Okami
 DATE 10/03/2024

PUBLIC IMPROVEMENT PLANS
 PARKING LOT "D"
 1331 MANHATTAN AVENUE
 TITLE 24 FORMS

FILE NUMBER
 XXXXX-CIVIL
E-6
 SHT. 31 OF 31