

SITE & DEVELOPMENT PLANS

FOR

POOL CORP REGIONAL FLEX FACILITY

GENERAL NOTES

- * OWNERSHIP & UNIFIED CONTROL STATEMENT: THE SUBJECT PROJECT WILL BE OWNED BY POOL DEVELOPMENT, LLC 109 NORTHPARK BLVD., COVINGTON, LA 70433 (985) 801-5737.
- * CHARACTER & INTENDED USE STATEMENT: THE SITE IS CURRENTLY USED AS MULTIPLE SINGLE FAMILY DWELLINGS. THE SUBJECT PROJECT PROPOSES A 60,000 SF (PHASES I & II) REGIONAL FLEX FACILITY WITH ASSOCIATED SITE IMPROVEMENTS.
- * SITE ADDRESS IS 3440 EAST LAUREL ROAD, NOKOMIS, FL, 34275
- * MAINTENANCE OF COMMON FACILITIES STATEMENT: ALL SITE IMPROVEMENTS, EXCEPT WHERE NOTED ON THE PLANS, ARE TO BE OWNED AND MAINTAINED BY THE PROPERTY OWNER AND SHALL NOT BE DEDICATED TO OR MAINTAINED BY THE PUBLIC.
- * ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CODE OF ORDINANCES CITY OF VENICE, FLORIDA.
- * WATER DISTRIBUTION AND SANITARY SEWER COLLECTION SYSTEM CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF VENICE, FLORIDA DEPARTMENTS OF ENGINEERING & UTILITIES UPDATED MAY 2020
- * THE CONTRACTOR SHALL CONTACT "SUNSHINE STATE" ONE CALL, FP&L, AND ALL OTHER UTILITY COMPANIES PRIOR TO ANY WORK ON-SITE OR OFF-SITE SO THAT THE EXACT LOCATION OF ALL UTILITIES CAN BE DETERMINED.
- * EXISTING ZONING: LAUREL EAST (LE)
- * PARCEL ID(S): 0987010003 & 0987010002
- * PROJECT SITE COVERSAGES:
 - NET PROJECT AREA: 537,261± SF 12.334± Ac (100.00%)
 - BUILDING: 60,000± SF 1.377± Ac (11.17%)
 - IMPERVIOUS: 207,702± SF 4.768± Ac (38.66%)
 - TOTAL IMPERVIOUS: 267,702± SF 6.146± Ac (49.83%)
- * BUILDING SQUARE FOOTAGE (TOTAL): 60,000 SF (11.16%)
- * PARKING:
 - FLEX SPACE: 34,800 SF (PHASE I) + FUTURE 19,200 SF (PHASE II) = 54,000 SF @ 1 SPACE/1,000 SF (MIN.) = 54 SPACES;
 - COMMERCIAL RETAIL = 6,000 SF @ 4 SPACES/1,000 SF = 24 SPACES = 78 SPACES REQUIRED; 78 SPACES PROVIDED;
 - HANDICAP SPACES REQUIRED: 4; HANDICAP SPACES PROVIDED: 4;
- * DENSITY: N/A
- * OPEN SPACE REQUIRED: 30.0% (3.70 Ac.); OPEN SPACE PROVIDED 68.1% (8.40 Ac.);
- * MAXIMUM CODE BUILDING HEIGHT: 35' (TO HIGHEST POINT OF ROOF); PROPOSED BUILDING HEIGHT: 35' (TO HIGHEST POINT OF ROOF);
- * NUMBER OF STORIES: 2
- * SETBACK REQUIREMENTS: FRONT (STREET): 15' (100' MAX.); SIDE: 10' (50' MAX.); REAR: 10' (50' MAX.);
- * THIS PROJECT WILL BE CONSTRUCTED IN TWO PHASES
- * ANTICIPATED CONSTRUCTION START: JULY 1, 2023; ESTIMATED COMPLETION DATE: JULY 1, 2024.
- * SIGNS: THE PROPOSED SIGNS IS SHOWN FOR THIS PROJECT AND WILL BE PERMITTED SEPARATELY THROUGH THE BUILDING DEPARTMENT.
- * LIGHTING: A LIGHTING PLAN, PREPARED BY A REGISTERED LIGHTING ENGINEER, WILL BE PERMITTED SEPARATELY.
- * LANDSCAPE BUFFERS: SEE LANDSCAPE PLAN BY REGISTERED LANDSCAPE ARCHITECT
- * SANITARY SEWER SYSTEM: SANITARY SEWER SERVICE TO BE PROVIDED BY CITY OF VENICE UTILITIES.
- * WATER DISTRIBUTION SYSTEM: WATER SERVICE TO BE PROVIDED BY CITY OF VENICE UTILITIES.
- * A CITY OF VENICE CONSTRUCTION PERMIT IS REQUIRED FOR CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
- * A CITY OF VENICE RIGHT-OF-WAY PERMIT IS REQUIRED FOR CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
- * AN FDEP WATER PERMIT IS REQUIRED FOR THE PROPOSED IMPROVEMENTS.
- * AN FDEP WASTEWATER PERMIT IS REQUIRED FOR THE PROPOSED IMPROVEMENTS.
- * THE SITE LIES WITHIN THE BOUNDARIES OF FLOOD ZONES "AE", PER FEMA FIRM PANEL #2105C 0244F, DATED NOVEMBER 4, 2016.
- * TO THE BEST OF OUR KNOWLEDGE AND BELIEF, THERE ARE NO EXISTING WELLS LOCATED ON THE SUBJECT SITE. ANY WELLS FOUND ON-SITE AND DETERMINED TO BE OF NO USE WILL BE PLUGGED BY A LICENSED WELL CONTRACTOR IN ACCORDANCE WITH ALL PERTINENT REGULATIONS. ANY WELLS DISCOVERED DURING EXCAVATION, EARTHMOVING OR CONSTRUCTION BE REPORTED TO SARASOTA COUNTY HEALTH DEPARTMENT ENVIRONMENTAL HEALTH WITHIN 24 HOURS OF DISCOVERY.
- * TO THE BEST OF OUR KNOWLEDGE AND BELIEF THERE ARE NO EXISTING SEPTIC TANKS LOCATED ON THE SUBJECT SITE TO BE REMOVED. ANY SEPTIC TANKS DISCOVERED ON THE SUBJECT SITE WILL BE ABANDONED AND REMOVED IN ACCORDANCE WITH ALL PERTINENT REGULATORY AGENCIES.
- * ENGINEER'S QUANTITY ESTIMATE OF INFRASTRUCTURE IMPROVEMENTS:
 - 0.0 LF OF RECLAIMED WATER MAIN
 - 0.0 LF OF POTABLE WATER MAIN
 - 0.0 LF OF GRAVITY SEWER MAIN
 - 0.0 LF OF FORCE MAIN
 - 0 NUMBER OF MANHOLES
- * SEDIMENT AND EROSION CONTROL/BEST MANAGEMENT PRACTICES (BMP'S):
 - THE FOLLOWING PERTAINS TO SEDIMENT & EROSION CONTROL/BEST MANAGEMENT PRACTICES AND SHALL BE ADHERED TO ACCORDINGLY. SAID MEASURES AND PRACTICES SHALL BE IMPLEMENTED DURING CONSTRUCTION BY THE CONTRACTOR. SITE SPECIFIC MEASURES SHALL PREVENT SEDIMENT AND OTHER DELETERIOUS SUBSTANCES FROM ENTERING UTILITY AND STORM WATER DRAINAGE SYSTEMS INCLUDING BUT NOT LIMITED TO DITCHES, WATER BODIES, WETLANDS, AND ADJACENT PROPERTIES. THE EFFECTIVENESS OF THE BMP'S SHALL BE CHECKED DAILY DURING CONSTRUCTION BY THE CONTRACTOR. METHODS USED SHALL INCLUDE BUT NOT BE LIMITED TO SODDING OF RETENTION AREAS AND SHALES IMMEDIATELY UPON THEIR COMPLETION, SILT FENCE, AND HAY BALES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SILTATION ENTERING THE STORM WATER MANAGEMENT SYSTEM ON-SITE OR OFF-SITE DRAINAGE AREAS.
 - * ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO EXISTING CONDITION, OR BETTER, TO THE SATISFACTION OF THE OWNER.
 - * ALL FACILITIES CONTAINED HEREIN HAVE BEEN DESIGNED FOR HANDICAP ACCESSIBILITY IN ACCORDANCE WITH BOTH THE FLORIDA ACCESSIBILITY CODE, LATEST EDITION, AND THE AMERICAN DISABILITY ACT STANDARDS.
 - * REFUSE & RECYCLABLES ARE TO BE PICKED UP BY AN AUTHORIZED TRASH HAULER OR TAKEN TO A PRIVATE RECYCLING CENTER.
 - * THERE ARE NO KNOWN HISTORIC SITES OR HISTORIC BUILDINGS LOCATED ON THE SITE.
 - * NO FOUNDATION MOUNDS OR HIDDEN AREAS OF HISTORIC ORIGIN ARE LOCATED ON SITE.
 - * I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE FACILITIES COMPLY WITH ALL APPLICABLE STANDARDS, INCLUDING THE MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS AND THE CITY OF VENICE CODE OF ORDINANCES.
 - * THE WETLANDS, MITIGATION AREAS AND ASSOCIATED UPLAND VEGETATIVE BUFFERS SHALL BE MAINTAINED IN ACCORDANCE WITH MANAGEMENT GUIDELINES CONTAINED WITHIN THE COMPREHENSIVE PLAN AS A PRESERVE AND LABELED A PRESERVE ON ALL PLANS.
 - * ALL ACTIVITIES INCLUDING, BUT NOT LIMITED TO FILLING, EXCAVATING, WELL DRILLING, ALTERING VEGETATION (INCLUDING TRIMMING OF BOTH TREES AND UNDERSTORY) AND STORING OF MATERIALS SHALL BE PROHIBITED WITHIN PRESERVATION AREAS, UNLESS WRITTEN APPROVAL IS FIRST OBTAINED FROM CONSERVATION ENVIRONMENTAL PERMITTING. EXCEPTION MAY BE GRANTED BY CONSERVATION ENVIRONMENTAL PERMITTING TO FACILITATE IMPLEMENTATION OF APPROVED HABITAT MANAGEMENT PLANS OR THE HAND REMOVAL OF NUISANCE/INVASIVE VEGETATION.
 - * A TREE PERMIT WILL BE REQUIRED PRIOR TO ANY CONSTRUCTION OR NATIVE VEGETATIVE REMOVAL WITHIN THE DRIP LINE OF A TREE, AND/OR TREE REMOVAL.
 - * IF ANY SOILS CONTAMINATION IS DISCOVERED, THE CITY OF VENICE ENGINEERING DEPARTMENT SHALL BE CONTACTED AND ALL CONTAMINATION WILL BE HANDLED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
 - * ALL UNDERGROUND PIPING SUBJECT TO INCREASED PRESSURE BY A FIRE PUMP OR ANY OTHER MEANS SHALL COMPLY WITH NFPA 24 AND BE FULLY RESTRAINED USING APPROVED METHODS OR DEVICES.
 - * THE ENGINEER OR SURVEYOR, WITH INFORMATION PROVIDED BY THE CONTRACTOR, SHALL PROVIDE RECORD DRAWINGS THAT MEET THE REQUIREMENTS OF THE CITY OF VENICE ENGINEERING & UTILITY DEPARTMENT'S STANDARD LATEST REVISED JANUARY 2020.

CONSTRUCTION NOTES

- * ALL WORK CONDUCTED IN THE CITY OF VENICE RIGHT-OF-WAY (ROW) WILL REQUIRE THE ISSUANCE OF A ROW USE PERMIT.
- * ALL WORK CONDUCTED IN SARASOTA COUNTY AND/OR FDOT ROW SHALL REQUIRE A COPY OF THE ISSUED PERMITS.
- * TREE REMOVAL PERMITS MUST BE OBTAINED FROM THE CITY OF VENICE.
- * POST-DEVELOPMENT RUNOFF DOES NOT EXCEED PRE-DEVELOPMENT RUNOFF VOLUME OR RATE FOR A 24-HOUR, 25-YEAR STORM EVENT.
- * ALL FIRE SERVICE BACKFLOW ASSEMBLIES SHALL BE INSTALLED BY A CERTIFIED CONTRACTOR WITH A CLASS I, II, OR V CERTIFICATE OF COMPETENCY ISSUED BY THE STATE FIRE MARSHAL'S F.S. 689.521
- * CONSTRUCTION SITE MUST BE POSTED WITH 24-HOUR CONTACT INFORMATION
- * ALL UTILITIES, WHETHER PUBLIC OR PRIVATE, SHALL MEET CITY OF VENICE STANDARDS.
- * CONTACT PUBLIC WORKS SOLID WASTE DIVISION (941-486-2422) FOR APPROVAL OF DUMPSTER LOCATION AND LAYOUT PRIOR TO CONSTRUCTION
- * ALL DRAINAGE STRUCTURES SHALL HAVE PAVED INVERTS TO PREVENT IMPOUNDED WATER.
- * ALL TACTILE SURFACES ON CURB CUT RAMPS SHALL CONFORM TO FDOT INDEX NO. 304
- * SIGN POSTS SHALL BE 2'X2" SQUARE BREAK-AWAY 14 GAUGE GALVANIZED STEEL WITH PUNCHED HOLES.
- * ALL DRAINAGE CULVERT JOINTS SHALL BE WRAPPED PER FDOT INDEX NO. 280.
- * RIP-RAP SHALL MEET ALL SPECIFICATIONS OF SECTION 530 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
- * ALL ROADWAY AND DRAINAGE RELATED STRUCTURES SHALL BE 3,000 PSI CONCRETE.
- * A MINIMUM OF 2 FEET OF SOD SHALL BE PLACED AT THE BACK OF ALL CURBS AND PAVEMENT EDGES, EXCEPT LANDSCAPE AREAS.
- * ALL SHALES, BERTS, AND DEBRIS AREAS TO THE NORTH WATER LEVEL SHALL BE SODDED PRIOR TO THE DEVELOPMENT ACTIVITIES.
- * CLOSURE PLAN: NO STOCKPILED VEGETATIVE DEBRIS WILL BE LOCATED ON-SITE. SITE CONTRACT WITH CONTRACTOR WILL PROVIDE FOR REMOVAL OF ALL CONSTRUCTION DEBRIS AND FILL FROM THE SITE IN THE EVENT THE CONSTRUCTION SITE IS ABANDONED PRIOR TO PROJECT COMPLETION AND WILL ALLOW CONTRACTOR TO LIEN PROPERTY FOR COMPENSATION.
- * VEGETATION FROM CLEARING AND GRUBBING WILL BE DISPOSED OFF-SITE OR IF USED ON-SITE, MUST BE VERIFIED WITH THE CITY AND THE ENGINEER FOR LOCATION, DEPTH, AND WIDTH AND BE LOCATED ABOVE SEASONAL HIGH WATER LEVEL. A MIXING SPECIFICATION WILL BE PROVIDED FOR REVIEW.
- * A SEPARATE BUILDING PERMIT WILL BE REQUIRED PRIOR TO ANY RETAINING WALL SYSTEM AND ALL MASONRY OR ENGINEERED STYROFOAM PRIVATE WALLS.
- * CONSTRUCTION PLAN APPROVAL DOES NOT EXEMPT THE CONTRACTOR FROM OBTAINING THE REQUIRED BUILDING, ELECTRICAL, PLUMBING, AND MECHANICAL PERMITS. THESE INCLUDE BUT ARE NOT LIMITED TO ANY STRUCTURE, SIGN, WALL ENCLOSURE OR SCREENING ETC.
- * IF EVIDENCE OF THE EXISTENCE OF CULTURAL RESOURCES IS DISCOVERED OR OBSERVED AT DEVELOPMENT SITES OR DURING DEVELOPMENT ACTIVITIES AFTER FINAL APPROVAL, ALL WORK SHALL CEASE IN THE AREA OF EFFECT AS DETERMINED BY THE DIRECTOR. THE DEVELOPER, OWNER, CONTRACTOR, OR AGENT THEREOF SHALL NOTIFY THE OFFICE OF HISTORICAL RESOURCES (941) 882-7376 WITHIN TWO WORKING DAYS. EXAMPLES OF SUCH EVIDENCE MAY INCLUDE WHOLE OR FRAGMENTARY STONE TOOLS, SHELL TOOLS, ABORIGINAL OR HISTORIC POTTERY, HISTORIC GLASS, BONE TOOLS, HISTORIC BUILDING FOUNDATIONS, SHELL MOUNDS, SHELL MIDDENS, OR SAND MOUNDS. THE DIRECTOR SHALL ASSESS THE SIGNIFICANCE OF THE FINDS WITHIN THREE WORKING DAYS OF NOTIFICATION AND MITIGATE ANY ADVERSE EFFECTS SO AS TO MINIMIZE DELAYS TO DEVELOPMENT ACTIVITIES.
- * IF ANY HUMAN SKELETAL REMAINS OR ASSOCIATED BURIAL ARTIFACTS ARE DISCOVERED AT DEVELOPMENT SITES OR DURING DEVELOPMENT ACTIVITY, ALL WORK IN THE AREA MUST CEASE, AND THE PERMITTEE MUST IMMEDIATELY NOTIFY THE NEAREST LAW ENFORCEMENT OFFICE AND NOTIFY THE DEPARTMENT OF HISTORICAL RESOURCES WITHIN TWO WORKING DAYS. ACCORDING TO CHAPTER 872, FLORIDA STATUTES, IT IS UNLAWFUL TO DISTURB, VANDALIZE, OR DAMAGE A HUMAN BURIAL.
- * ALL TRAFFIC CONTROL SIGNS WITHIN THE RIGHT-OF-WAY SHALL BE PER SECTION 700 OF THE FDOT SPECIFICATIONS IN ADDITION TO THE CITY OF VENICE ENGINEERING STANDARDS. ALL SIGNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MUTCD CRITERIA FOR SIGN SIZE, SHAPE AND LETTERING DIMENSIONS.
- * ALL STREET STOP SIGNS WILL BE MANUFACTURED USING DIAMOND GRADE REFLECTIVE SHEETING (OR AN EQUIVALENT). ALL OTHER TRAFFIC/STREET SIGNS SHALL BE MANUFACTURED USING (MINIMUM) HIGH INTENSITY REFLECTIVE SHEETING. TRAFFIC SIGN POSTS AND STREET NAME SIGNS SHALL BE INSTALLED CONSISTENT WITH APPENDIX C3 OF THE UCD. THE POLETECH SYSTEM (OR AN EQUIVALENT) SHALL BE EMPLOYED WHERE SIGN POSTS ARE INSTALLED IN PAVED AREAS.
- * ELEVATIONS HEREON ARE BASED UPON NAVD83 (NORTH AMERICAN VERTICAL DATUM OF 1986).

60,000 SF FLEX FACILITY

PROJECT TEAM

OWNER/CLIENT:
POOL DEVELOPMENT, LLC
109 Northpark Blvd.
Covington, LA 70433
(985) 801-5737

CIVIL ENGINEER:
CAVOLI Engineering, Inc.
5824 Bee Ridge Road, #325
Sarasota, FL 34233-5065
(941) 927-3647
Fax: (941) 927-3646

LANDSCAPE ARCHITECT:
Joseph H. Kelley, RLA, Inc.
3805 Hanover Street
Fort Myers, FL 33901
(239) 940-3065

SURVEYOR:
Brigham/Allen Land Surveying
303 S. Tamiami Trail, Suite E
Nokomis, FL 34275
(941) 493-4430

INDEX OF DRAWINGS

1	COVER SHEET
2	AERIAL W/ SITE PLAN
3-4	EXISTING CONDITIONS/DEMOLITION PLAN
5-6	SITE PLAN
7-8	PAVING, GRADING AND DRAINAGE PLAN
9-9A	SITE PLAN SECTIONS
10	STORM WATER MANAGEMENT DETAILS
11-12	SEDIMENT / EROSION CONTROL PLAN
13	SEDIMENT / EROSION CONTROL DETAILS
14	MASTER UTILITY PLAN
15	CONSTRUCTION DETAILS
16-17	WATER DETAILS
18	SEWER DETAILS
19	GRINDER LIFT STATION DETAILS
20	TRAFFIC CONTROL PLAN

SARASOTA COUNTY



SCALE: 1" = 1,000'
SECTION: 33
TOWNSHIP: 38 S
RANGE: 19 E
LATITUDE: 27° 8'11.55" N
LONGITUDE: 82°24'17.13" W

LEGEND

EX MH	EXISTING MANHOLE	MH #5	PROPOSED MANHOLE
EX F. HYD.	EXISTING FIRE HYDRANT	FF 36.75	PROPOSED FINISH FLOOR ELEVATION
33 91	EXISTING SPOT GRADE	FH #2	PROPOSED FIRE HYDRANT
	OVERLAND DRAINAGE FLOW DIRECTION	6" P.V.C. WM (TYP)	PROPOSED WATER MAIN SIZE WITH SPECIFICATION (POLYVINYL CHLORIDE PIPE)
	PAVEMENT DRAINAGE FLOW DIRECTION	WM	PROPOSED WATER MAIN
(34.00)	PROPOSED SPOT GRADE		PROPOSED DOUBLE SANITARY SEWER SERVICE
D.E.	PROPOSED DRAINAGE EASEMENT		PROPOSED SINGLE SANITARY SEWER SERVICE
CB #5	PROPOSED CATCH BASIN		PROPOSED DOUBLE WATER SERVICE
JB	PROPOSED JUNCTION BOX		PROPOSED SINGLE WATER SERVICE
E/W W/ RIP-RAP INV. 29.05	PROPOSED END WALL WITH RIP-RAP AND INVERT	FM	PROPOSED FORCEMAIN
57 LF 36" RCP AT 1.72%	PROPOSED LINEAR FEET OF REINFORCED CONCRETE PIPE AND SLOPE PERCENTAGE	(TYP)	TYPICAL
INV.	PROPOSED INVERT	&	PROPOSED HANDICAP PARKING SPACE
BM	BENCHMARK	6" CL. MIN.	6" CLEAR MINIMUM
	SEASONAL HIGH/NORMAL WATER LINE		PROPOSED DRAINAGE BASIN
	PROPOSED RIGHT-OF-WAY		PROPOSED EASEMENT (SEE PLANS FOR TYPE)



CAVOLI Engineering, Inc.

Consulting Civil Engineers

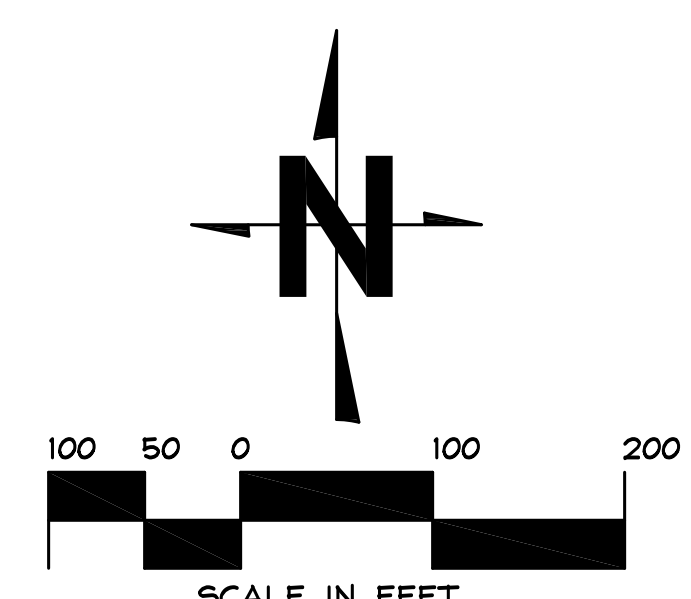
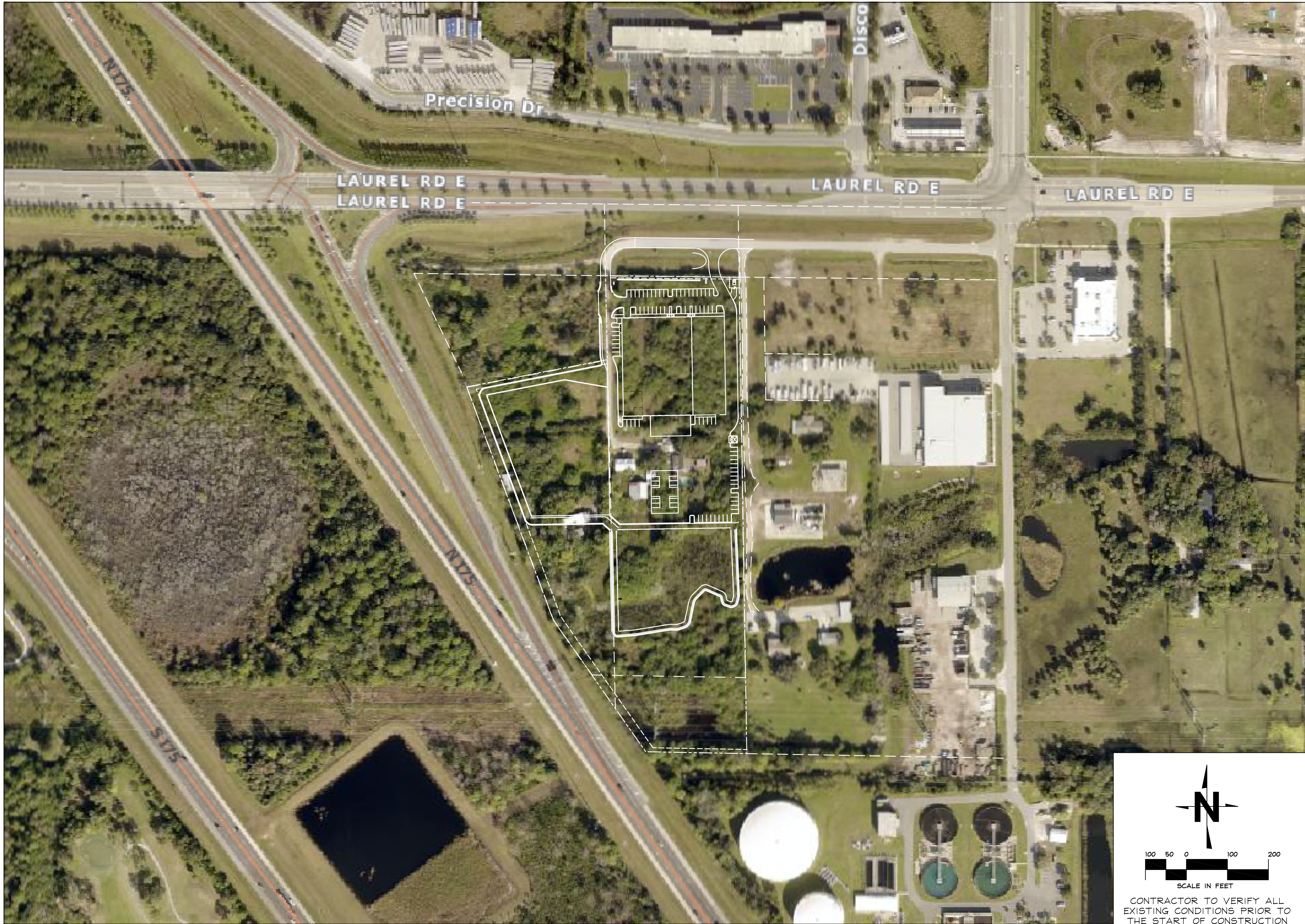
FL Cert. of Auth. No. 8875
63 Sarasota Center Blvd., Unit 101, Sarasota, FL 34240 email: info@cavoliengineering.com

(941) 927-3647

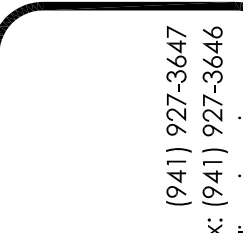
Fax: (941) 927-3646

CITY USE

JOHN F. CAVOLI, P.E. FL LICENSE NO.: 48692



CONTRACTOR TO VERIFY ALL
EXISTING CONDITIONS PRIOR TO
THE START OF CONSTRUCTION



CAVOLI Engineering, Inc.

Consulting Civil Engineers

P. E. Civil of Fla. No. 8875

63 Sarasota Center Blvd., Unit 101 Sarasota, FL 34240

(941) 927-3647

Fax: (941) 927-3646

email: info@covollerengineering.com

CLIENT: SCPC POOL CORP

PROJECT: POOL DEVELOPMENT, LLC

SHEET: AERIAL W/ SITE PLAN

REV. NO.	PER CITY REVISIONS	COMMENTS	DATE	SLG BY
1			02/10/23	

JOHN F. CAVOLI, P.E. FL LICENSE NO.: 48692

DATE
07/06/22

SCALE
1" = 100'

JOB NO.
SCPC01

SHEET
2



CLIENT: POOL DEVELOPMENT, LLC

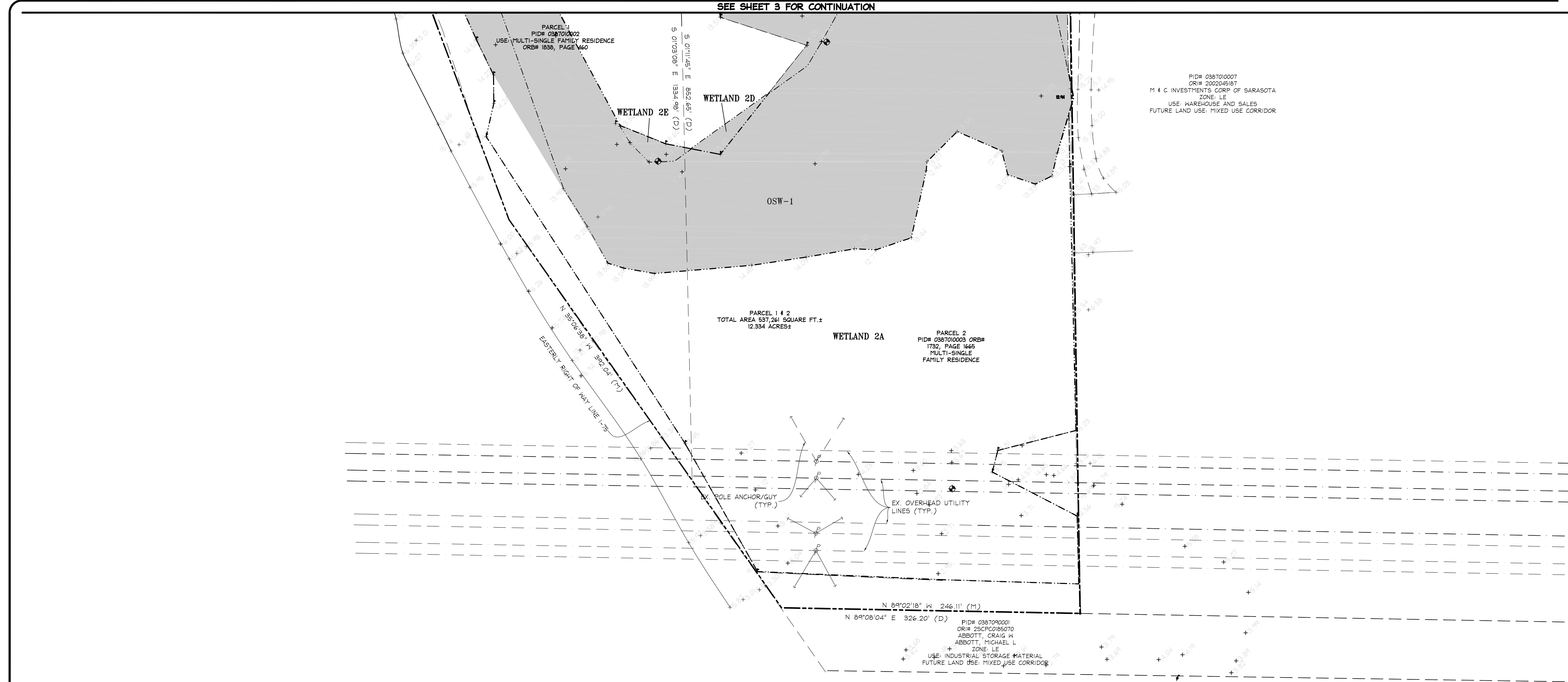
PROJECT: REGIONAL FLEX FACILITY

SHEET: EXISTING CONDITIONS / DEMOLITION PLAN

[illegible]

JOHN F. CAVOLI, P.E. FL LICENSE NO.: 48692

DATE 07/06/22
SCALE 1" = 40'
JOB NO. SCPC01
SHEET 3



SEE SHEET 3 FOR CONTINUATION

PID# 0387010007
OR# 2020245/87
M & C INVESTMENTS, CORP OF SARASOTA
ZONE: LE
USE: WAREHOUSE AND SALES
FUTURE LAND USE: MIXED USE CORRIDOR

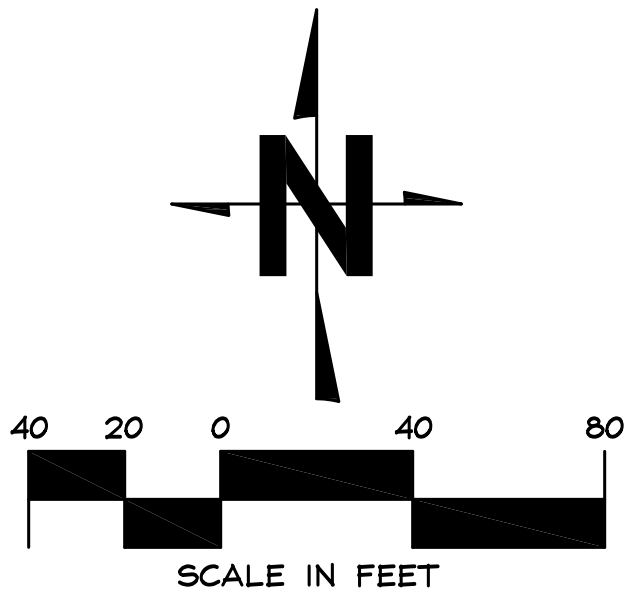
PARCEL 1 # 2
TOTAL AREA 537,261 SQUARE FT. ±
12.334 ACRES ±

PARCEL 2
PID# 0387010003 ORB#
1732, PAGE 1665
MULTI-SINGLE
FAMILY RESIDENCE

- LEGEND:
- EXISTING WETLAND AREA BOUNDARY
 - DEVELOPMENT IMPACT AREA
 - LAKE IMPACT AREA

WETLAND IMPACT AREAS:

- WL-1A TOTAL AREA: 0.154 AC.
(DEV. IMPACT AREA = 0.154 AC.)
- WL-1 TOTAL AREA: 0.157 AC.
(DEV. IMPACT AREA = 0.157 AC.)
- WL-2A TOTAL AREA: 2.471 AC.
(LAKE IMPACT AREA = 0.106 AC.)
(DEV. IMPACT AREA = ##### AC.)
- WL-2B TOTAL AREA: 0.134 AC.
(LAKE IMPACT AREA = 0.048 AC.)
(DEV. IMPACT AREA = ##### AC.)
- WL-2C TOTAL AREA: 0.305 AC.
(LAKE IMPACT AREA = 0.218 AC.)
(DEV. IMPACT AREA = ##### AC.)
- WL-2D TOTAL AREA: 0.0162 AC.
(LAKE IMPACT AREA = 0.0162 AC.)
- WL-2E TOTAL AREA: 0.0165 AC.
(LAKE IMPACT AREA = 0.0165 AC.)
- OSW-1 TOTAL AREA: 1.844
(LAKE IMPACT AREA = 1.611 AC.)
(DEV. IMPACT AREA = ##### AC.)



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(941) 927-3647
Fax: (941) 927-3646
email: info@covollerengineering.com

CLIENT: POOL DEVELOPMENT, LLC
PROJECT: REGIONAL FLEX FACILITY
SHEET: EXISTING CONDITIONS / DEMOLITION PLAN

REV.	PER CITY	COMMENTS	DATE	BY
1			6/22/23	JRR

JOHN F. CAVOLI, P.E. FL LICENSE NO.: 48692

DATE
07/06/22
SCALE
1" = 40'
JOB NO.
SCPC01
SHEET
4

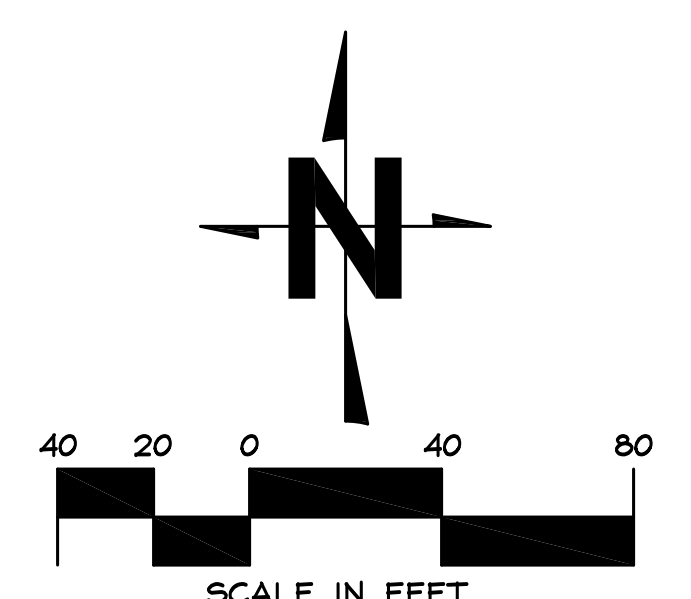


CLIENT: POOL DEVELOPMENT, LLC
PROJECT: REGIONAL FLEX FACILITY
SHEET: SITE PLAN

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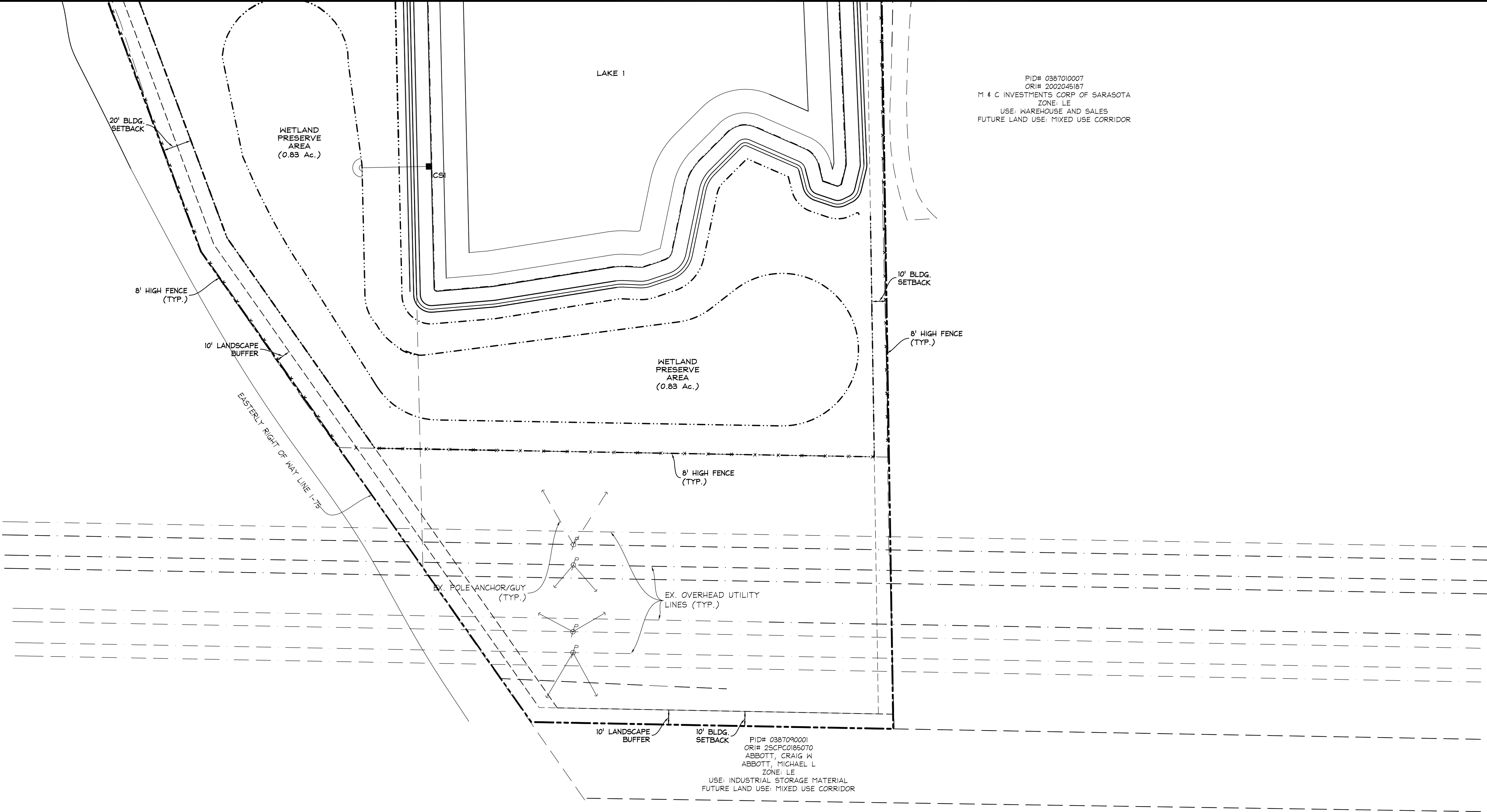
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DATE 07/06/22
SCALE 1" = 40'
JOB NO. SCPC01
SHEET 5



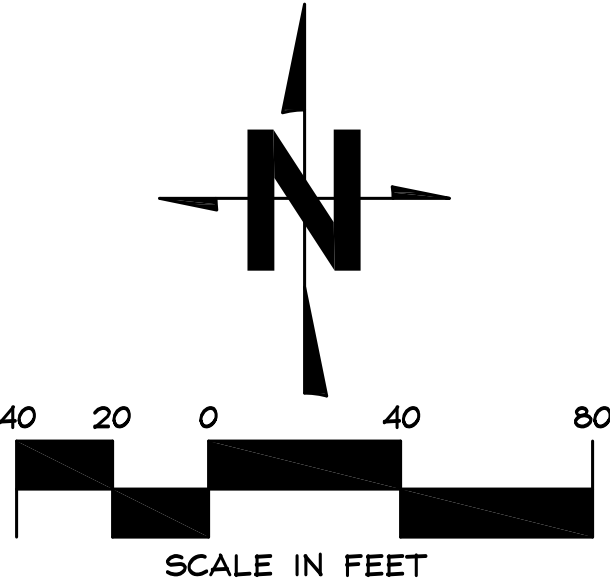
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SEE SHEET 6 FOR CONTINUATION



PID# 0387010007
OR# 2002045/87
M & C INVESTMENTS, CORP. OF SARASOTA
ZONE: LE
USE: WAREHOUSE AND SALES
FUTURE LAND USE: MIXED USE CORRIDOR

PID# 0387010001
OR# 25CP0185070
ABBOTT, CRAIG W.
ABBOTT, MICHAEL L.
ZONE: LE
USE: INDUSTRIAL STORAGE MATERIAL
FUTURE LAND USE: MIXED USE CORRIDOR



CONTRACTOR TO VERIFY ALL
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Cavoli Engineering, Inc.

Consulting Civil Engineers

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email: info@cavolliengineering.com

CLIENT: POOL DEVELOPMENT, LLC

PROJECT: REGIONAL FLEX FACILITY

SHEET: SITE PLAN

NO.	REVISIONS	DATE	BY
3	REV. PER CITY COMMENTS	9/13/23	JRR
2	REV. PER CITY COMMENTS	6/22/23	JRR
1	REV. PER CITY COMMENTS	02/10/23	SLG

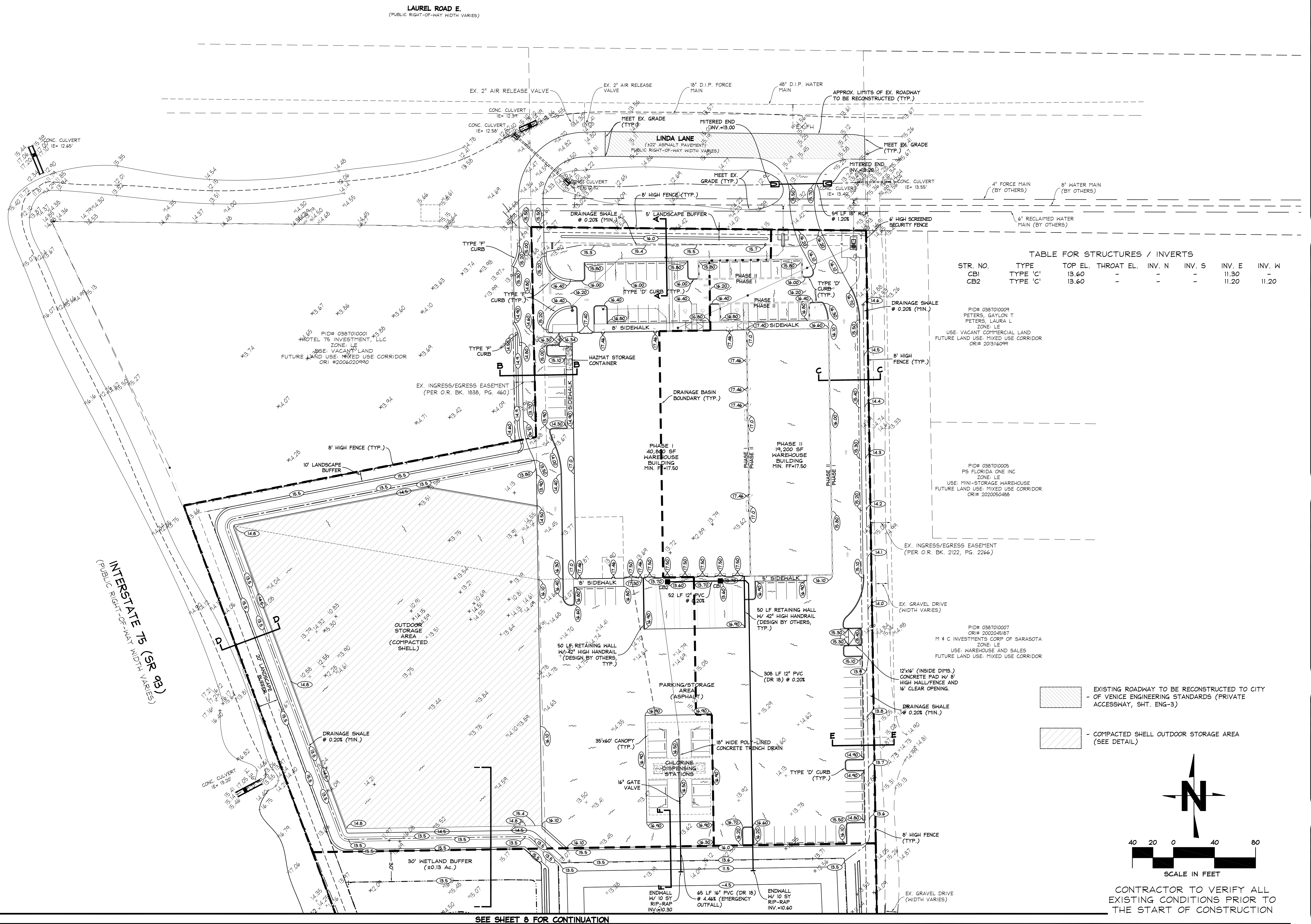
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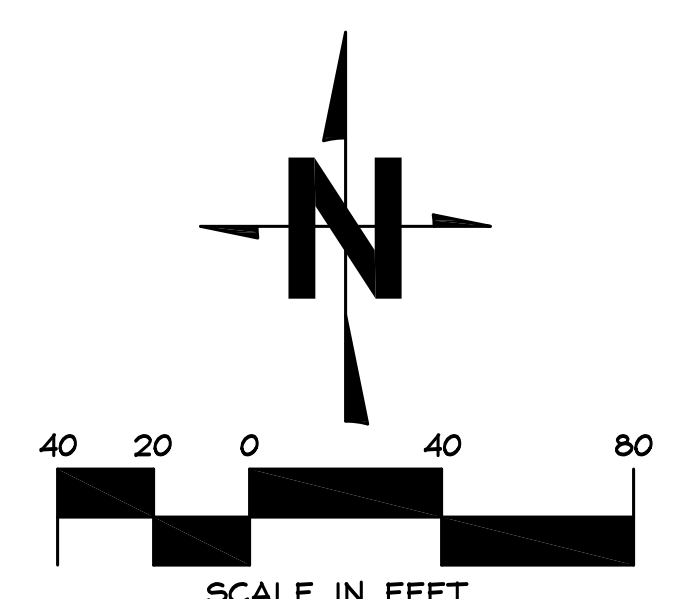
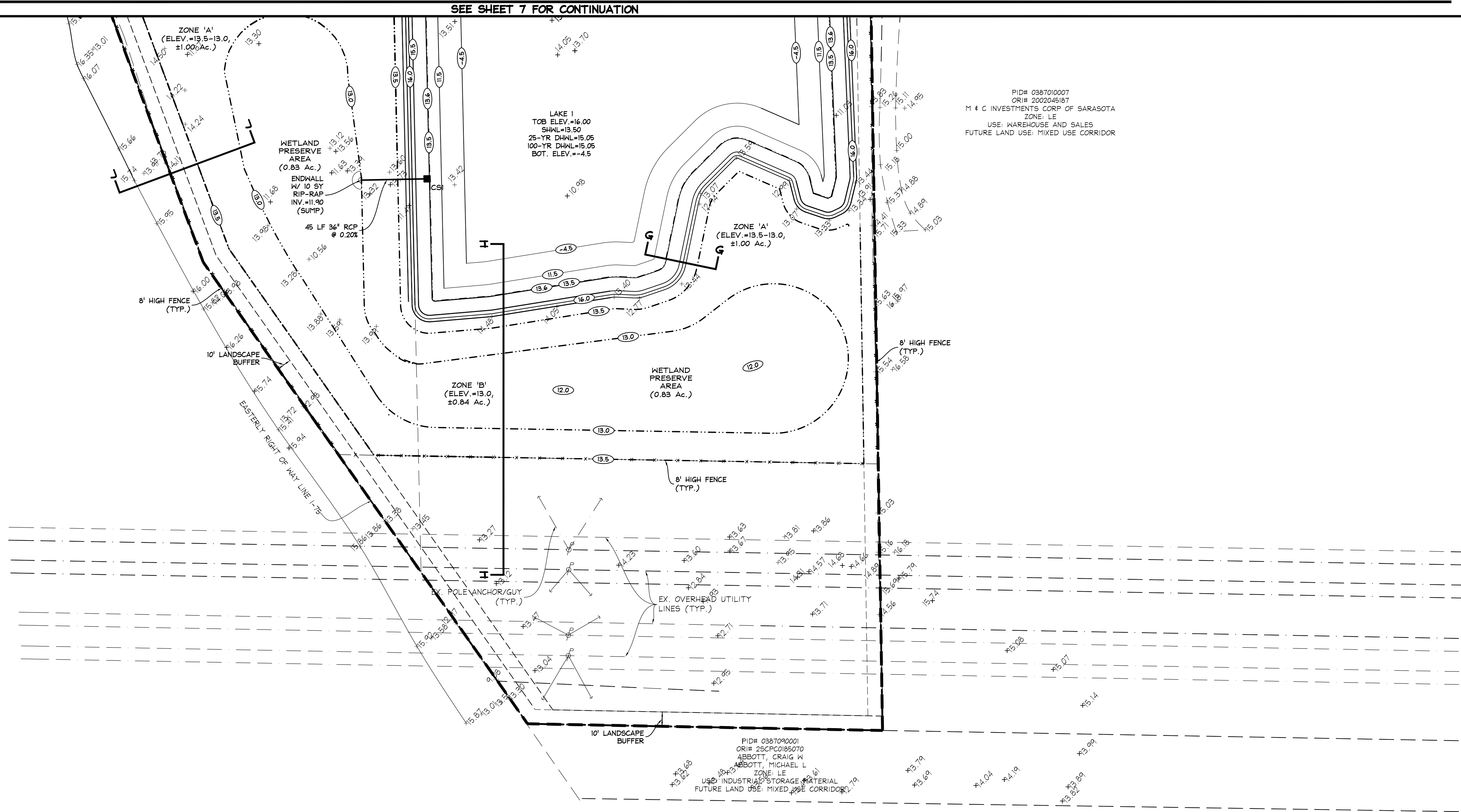
DATE
07/06/22

SCALE
1" = 40'

JOB NO.
SCPC01

SHEET
6





CONTRACTOR TO VERIFY ALL
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THE START OF CONSTRUCTION

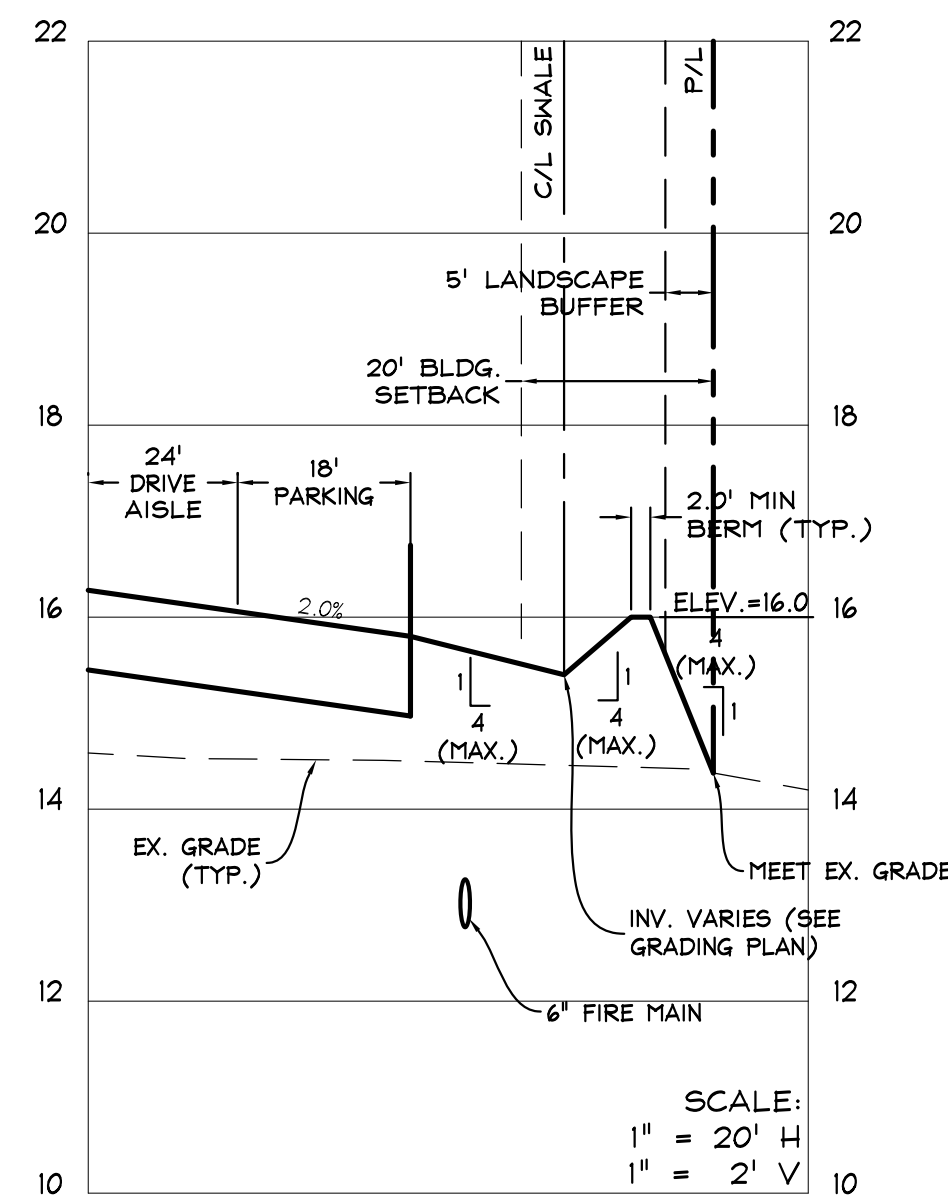
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Consulting Civil Engineers
Ft. Cert. of Auth. No. 8875
63 Sarasota Center Blvd., Unit 101 Sarasota, FL 34240
(941) 927-3647
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email: info@covollengineering.com

CLIENT: POOL DEVELOPMENT, LLC
PROJECT: REGIONAL FLEX FACILITY
SHEET: PAVING, GRADING & DRAINAGE PLAN

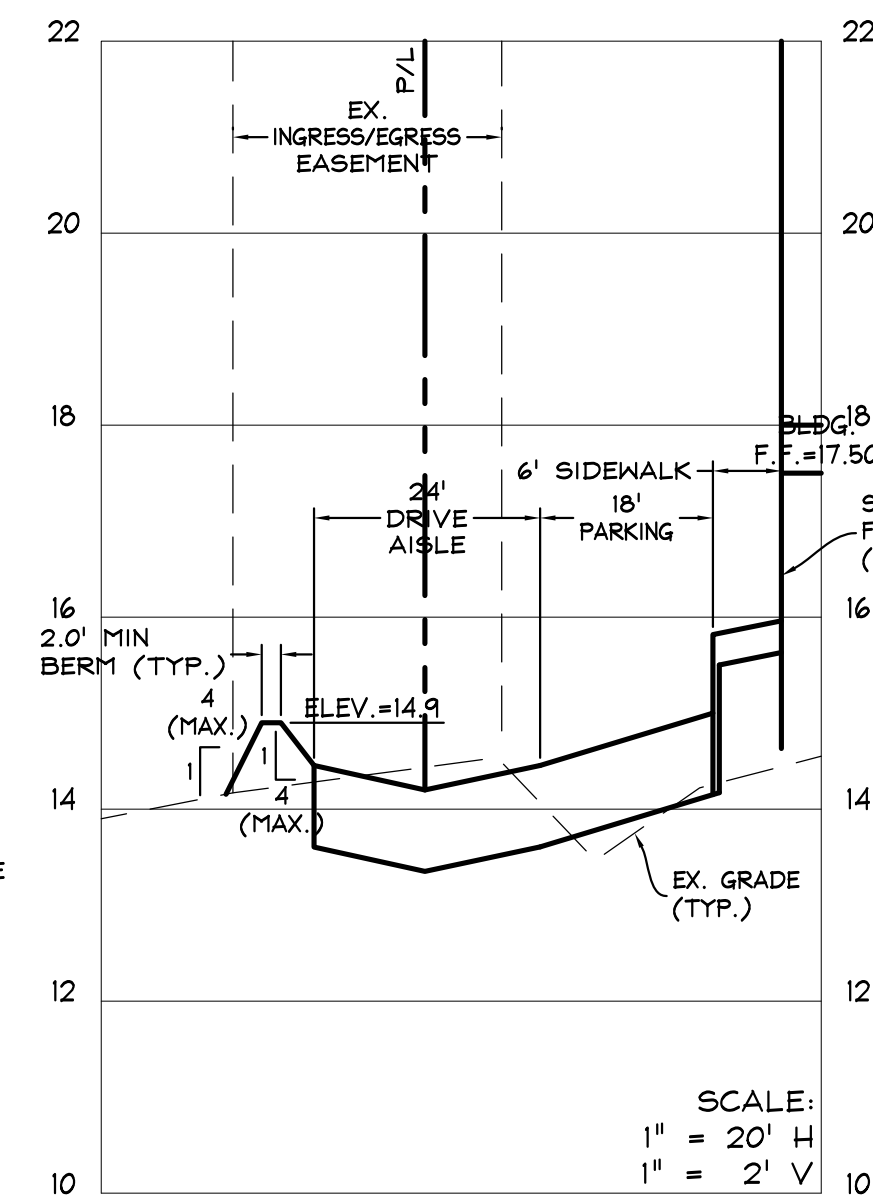
NO.	REVISIONS	DATE	BY
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1	REVISED PER CITY	6/22/23	JRR

JOHN F. CAVOLI, P.E. FL LICENSE NO.: 48692

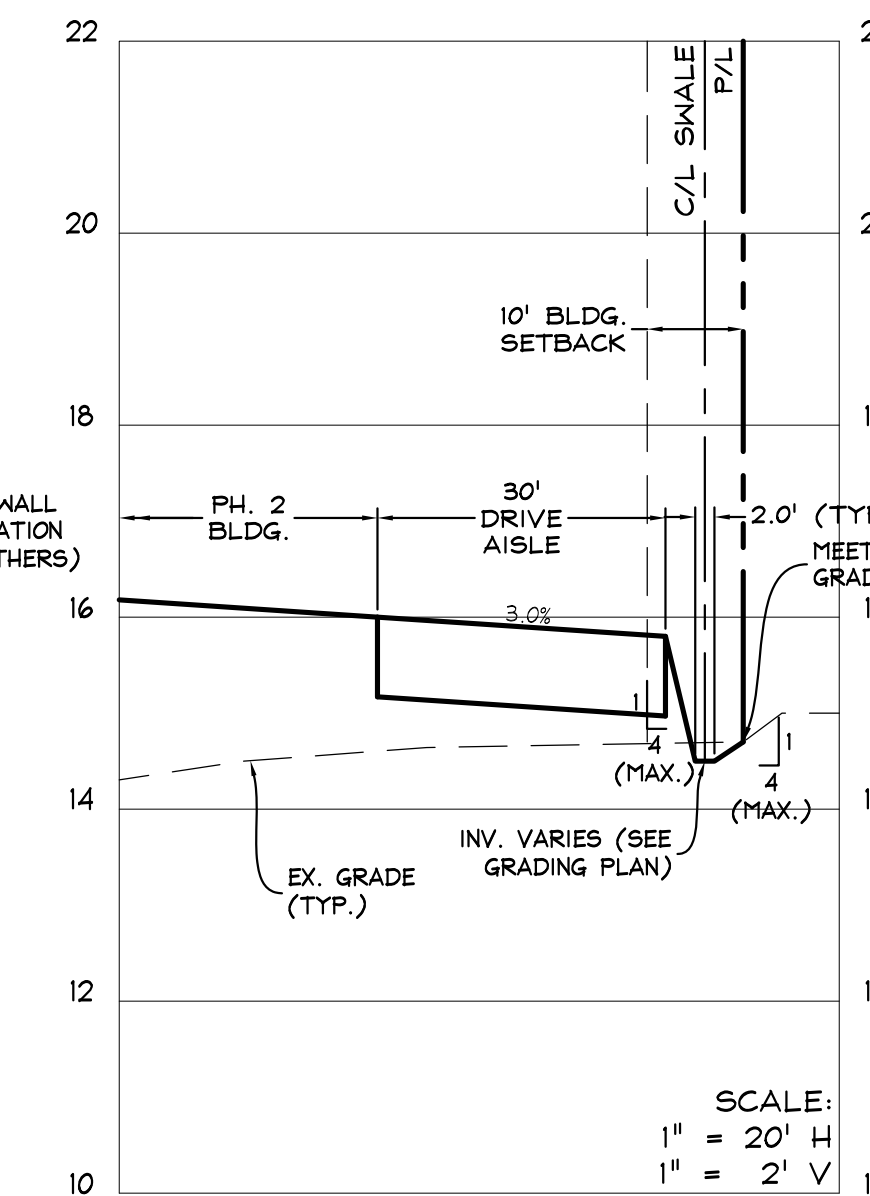
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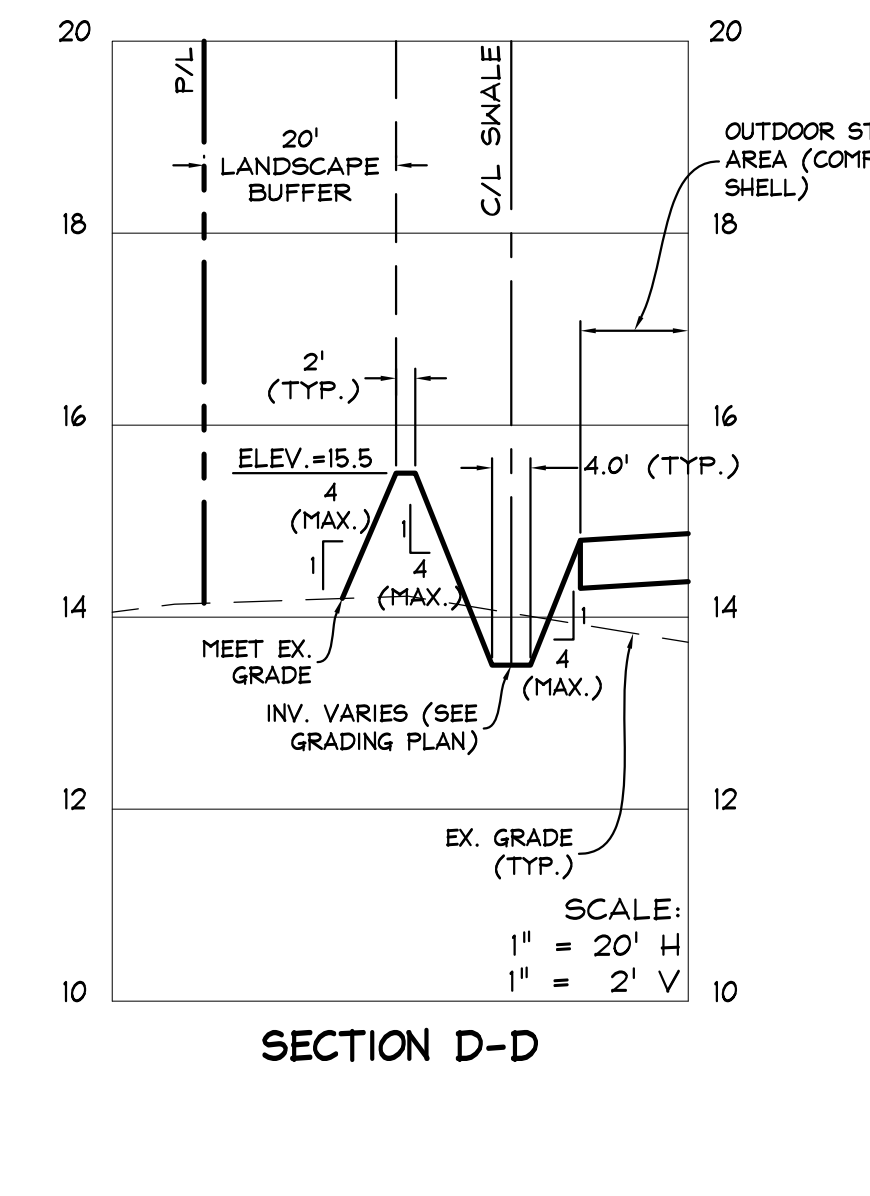
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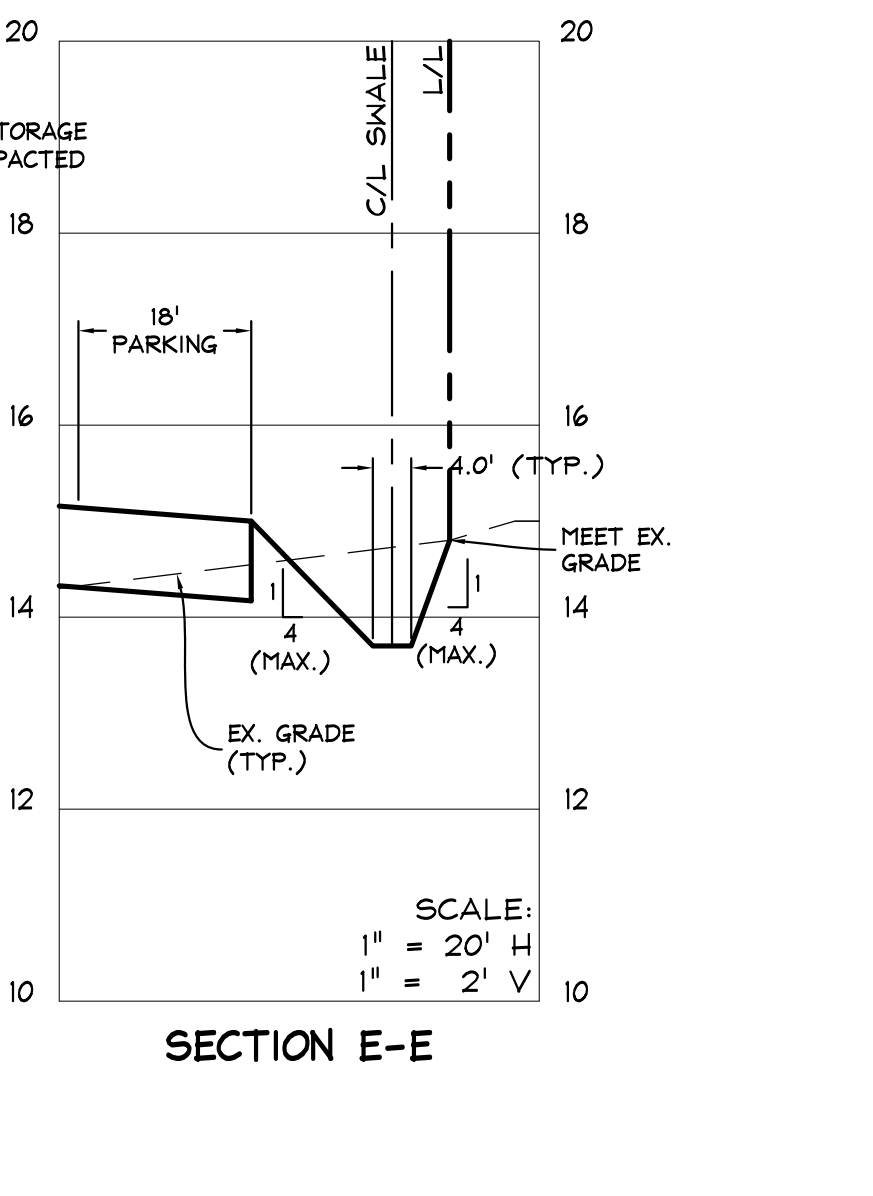
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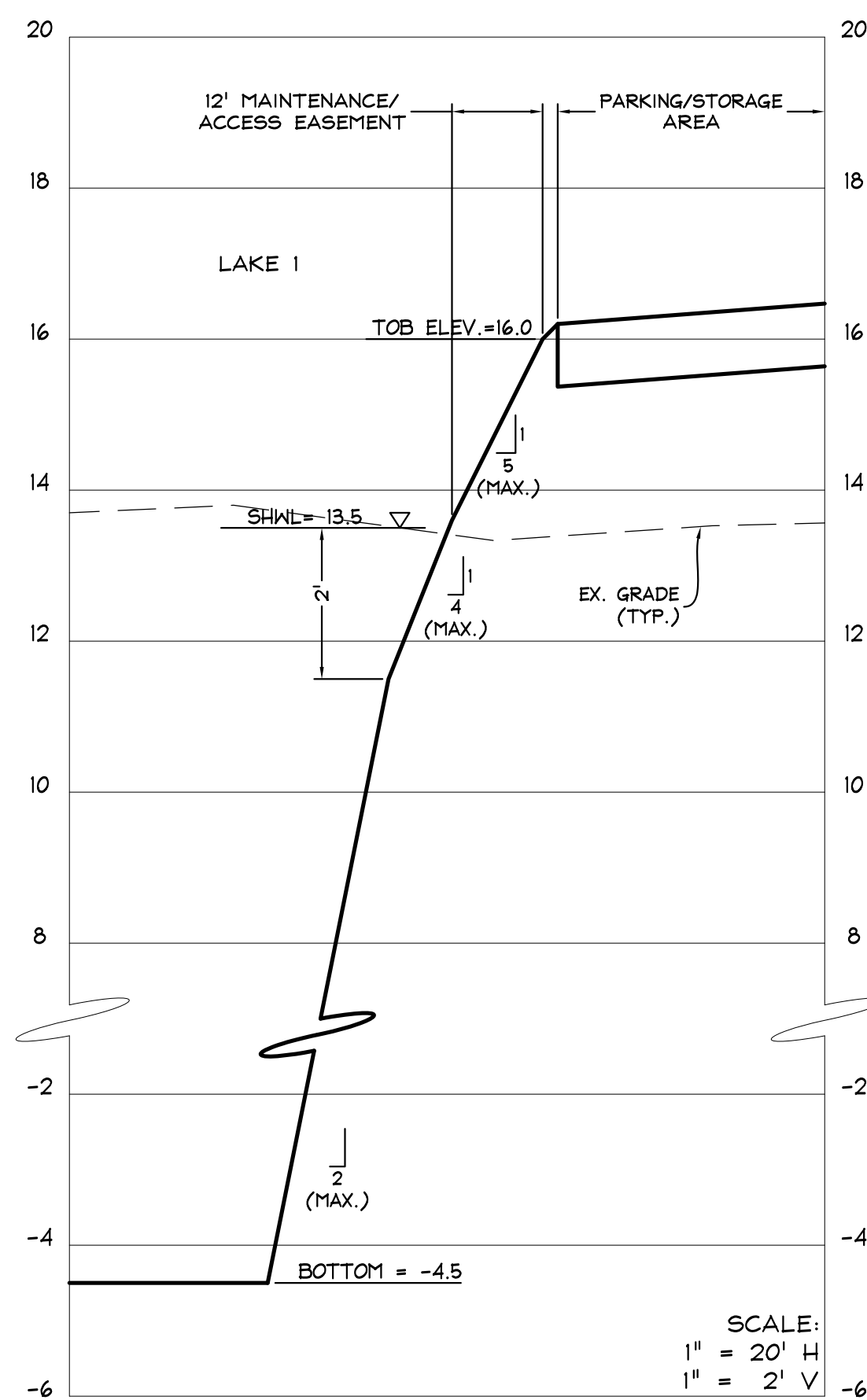
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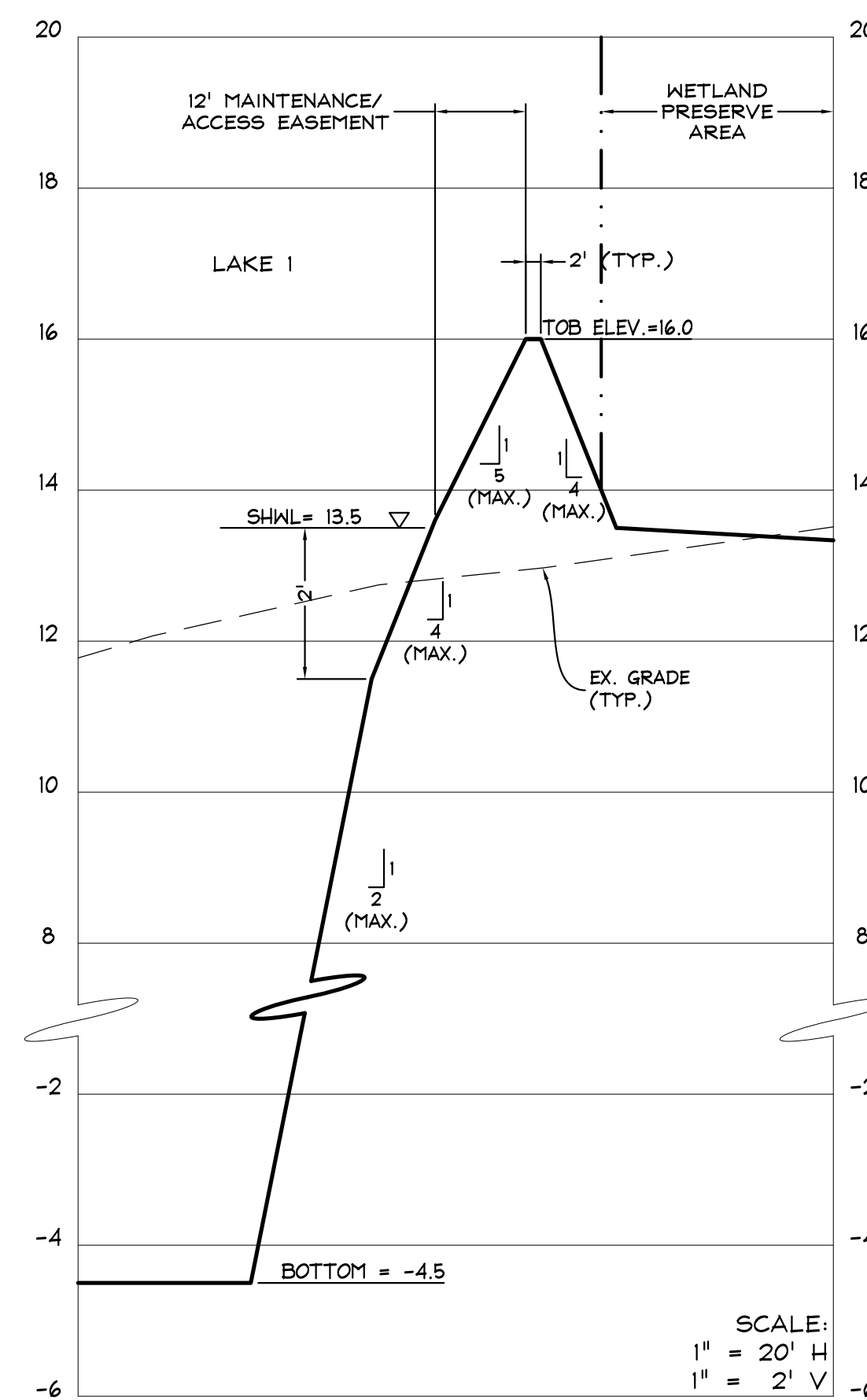
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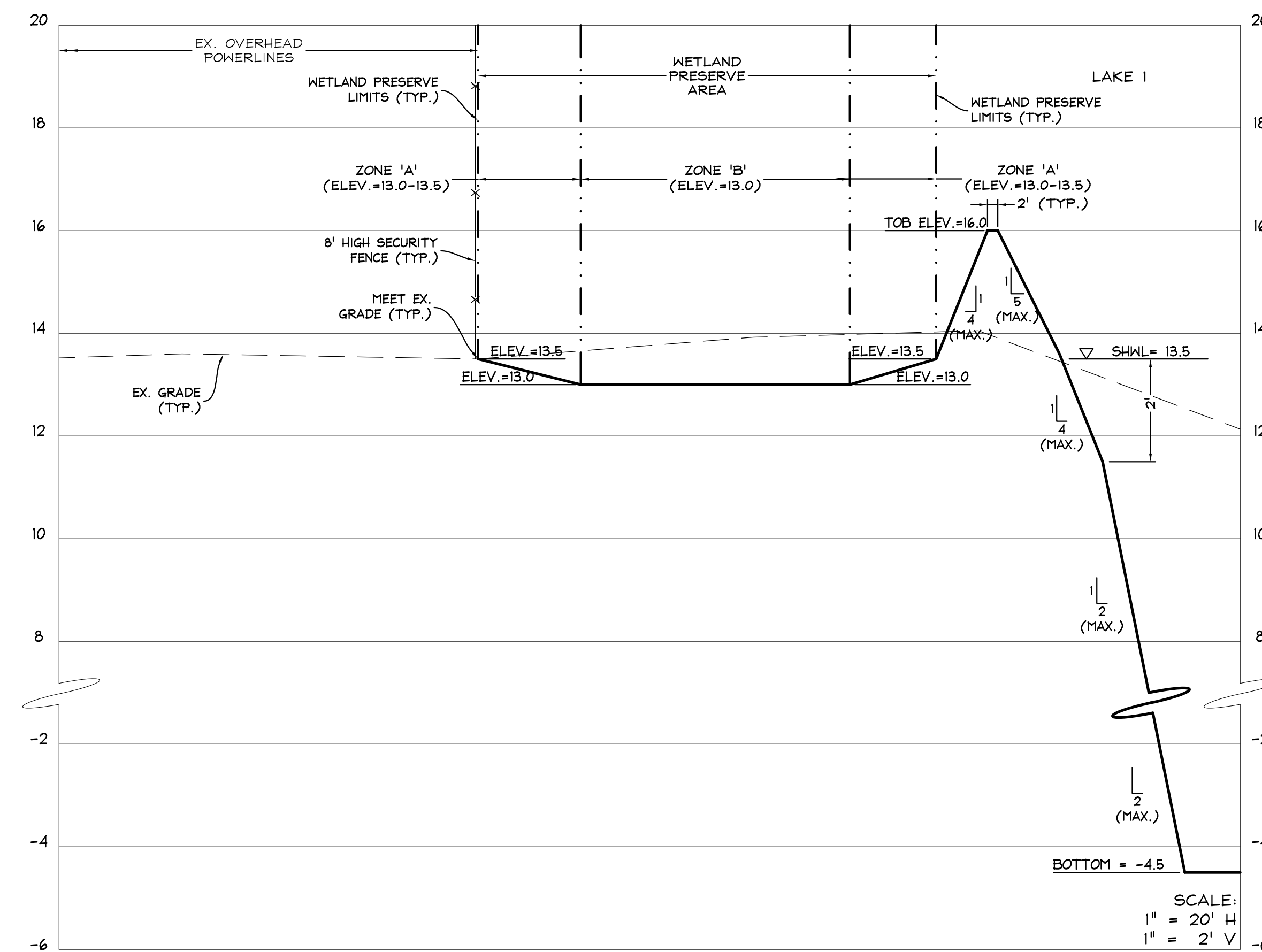
SECTION E-E



SECTION F-F



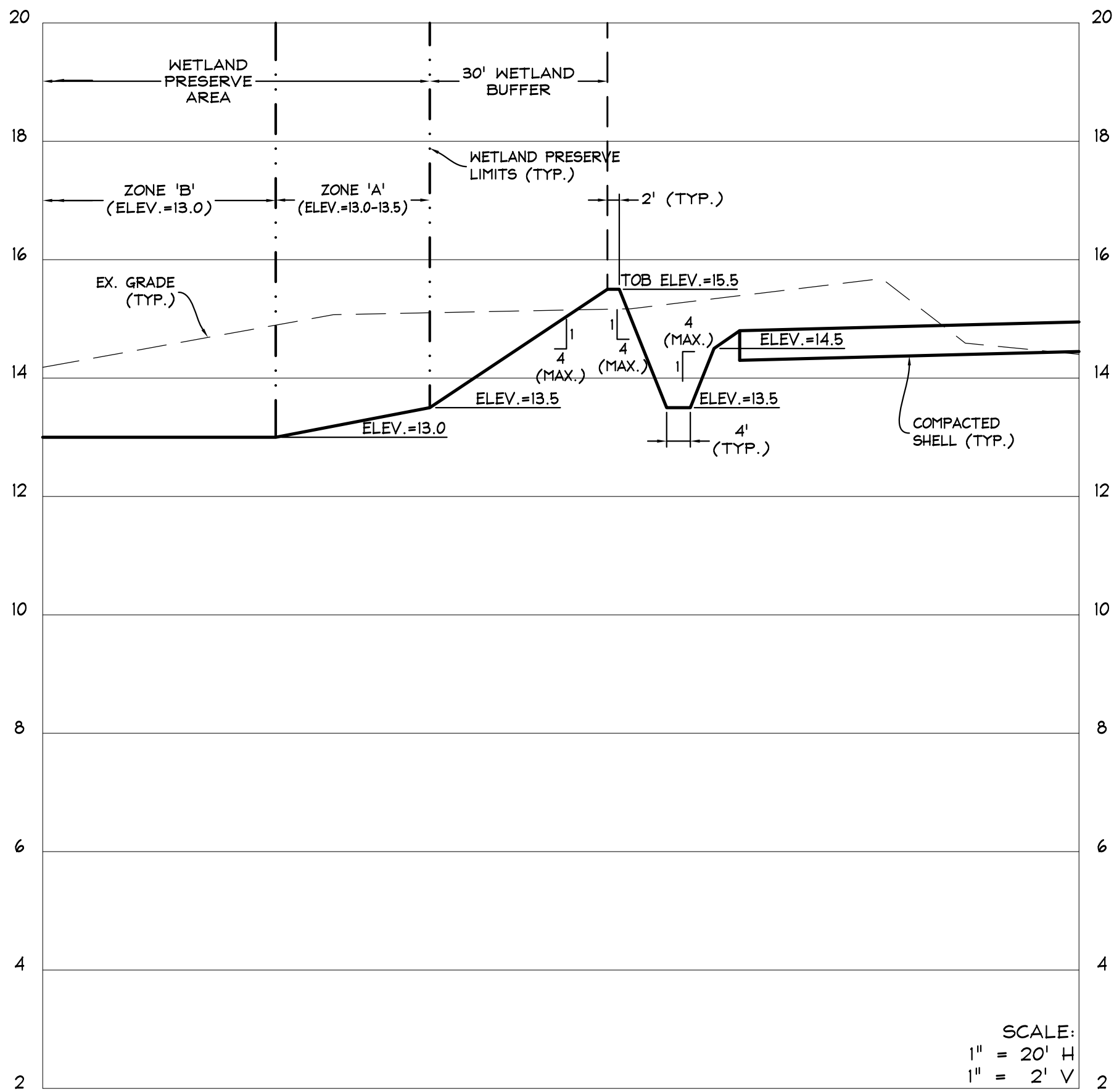
SECTION G-G



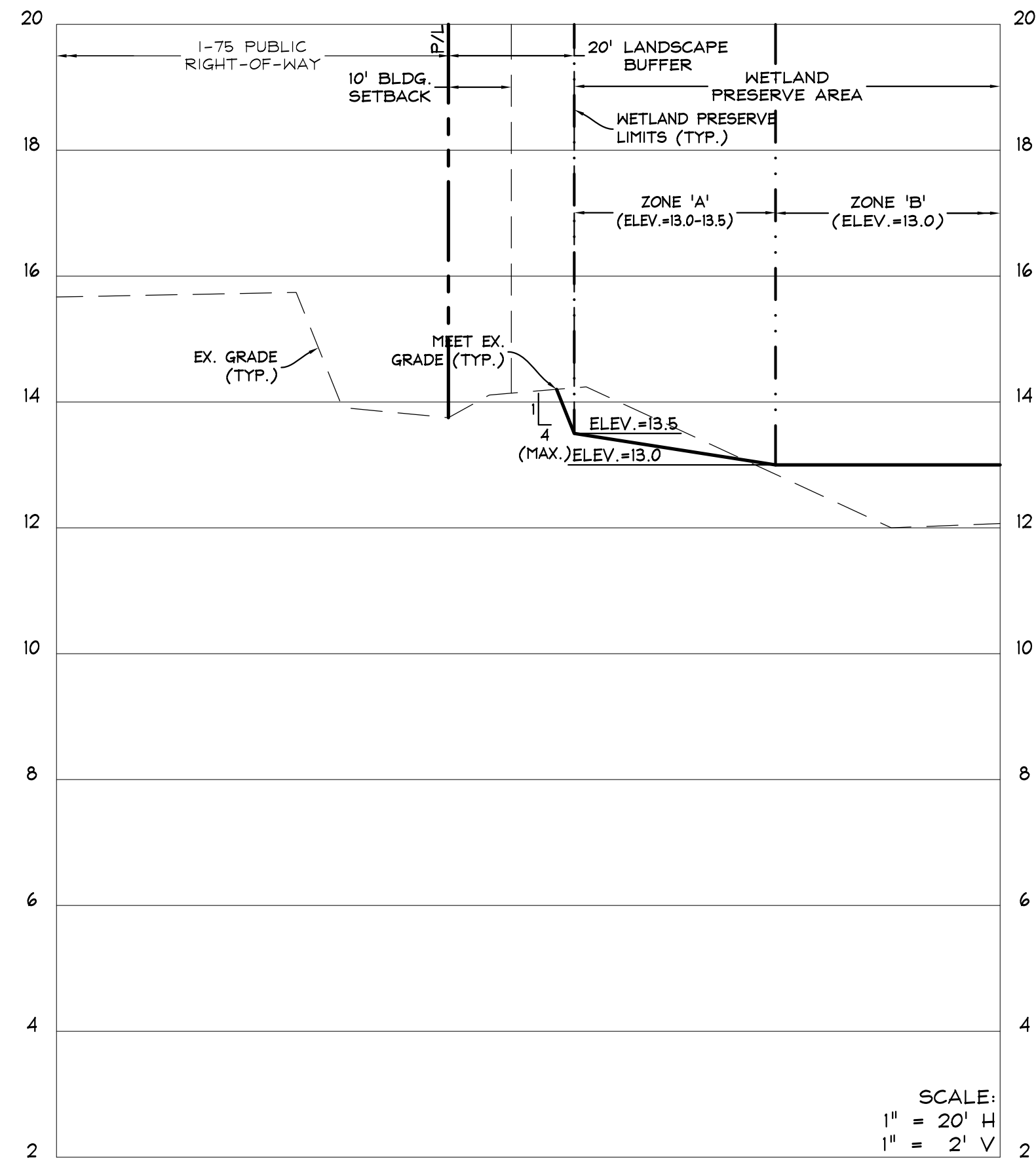
SECTION H-H

CONTRACTOR TO VERIFY ALL
EXISTING CONDITIONS PRIOR TO
THE START OF CONSTRUCTION

NO.	REV.	PER CITY COMMENTS	DATE	BY
2	REV.	PER CITY COMMENTS	6/22/23	JRR
1	REV.	PER CITY COMMENTS	02/10/23	SLG



SECTION I-I



SECTION J-J

WETLAND RESTORATION PLANTING PLAN

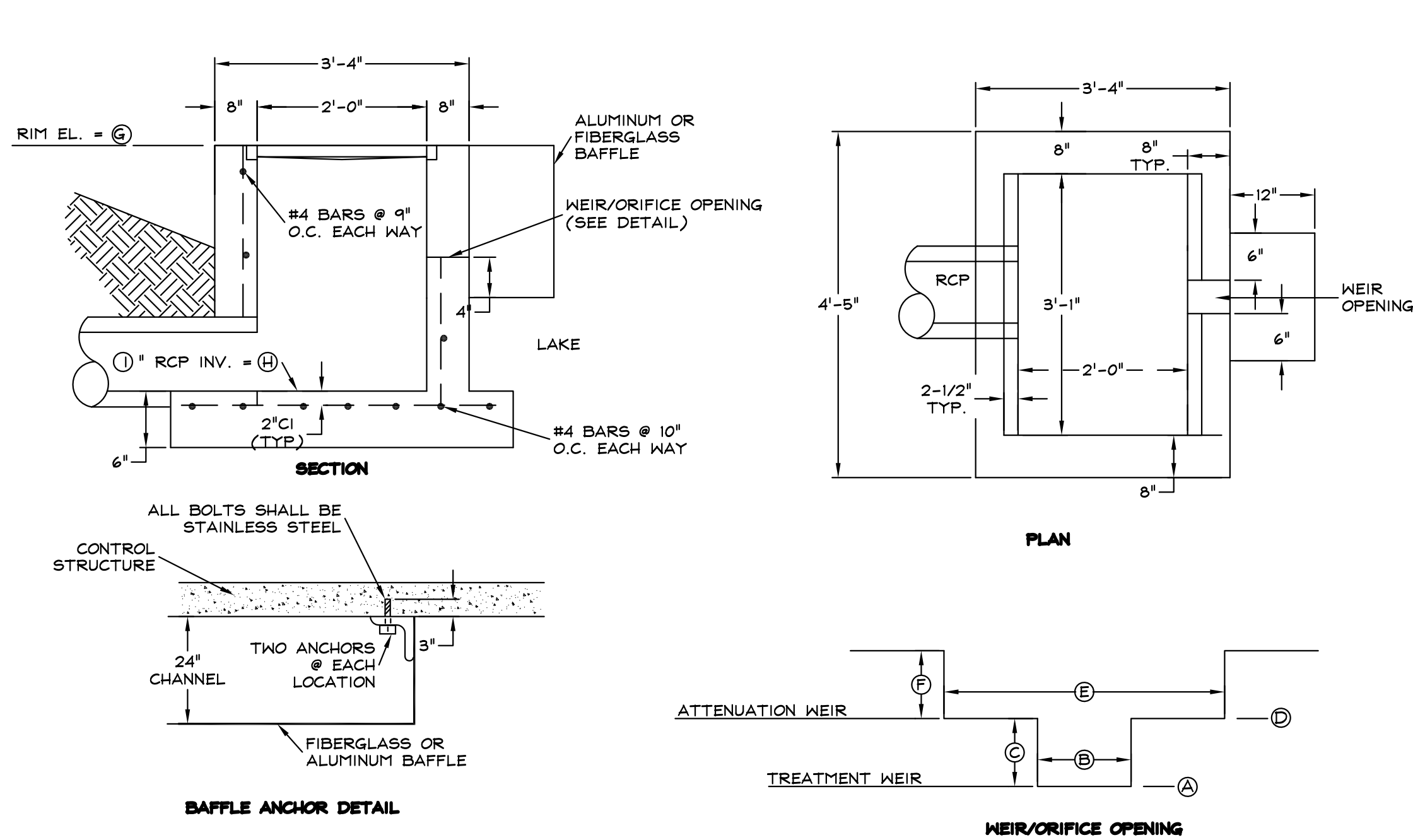
ZONE	Common Name	Scientific Name	Size	Spacing	Numbers
B	Pickerelweed	<i>Pontederia cordata</i>	Bareroot	3' o.c.	1100
B	Arrowhead	<i>Sagittaria lancifolia</i>	Bareroot	3' o.c.	1100
B	Alligator Flag	<i>Thalia geniculata</i>	Bareroot	3' o.c.	1100
B	Soft rush	<i>Juncus effusus</i>	Bareroot	3' o.c.	1100
B	Bulrush	<i>Scirpus spp.</i>	Bareroot	3' o.c.	1100

ZONE	Common Name	Scientific Name	Size	Spacing	Numbers
A	Button Bush	<i>Cephalanthus occidentalis</i>	3 gallon	10' o.c.	1100
A	Sand Cord Grass	<i>Spartina bakeri</i>	1 gallon	3' o.c.	1100
A	Eastern Gamma Grass	<i>Tripsacum dactyloides</i>	1 gallon	3' o.c.	1100

Buffer	Common Name	Scientific Name	Size	Spacing	Numbers
	Wax myrtle	<i>Myrica cerifera</i>	3 gallon	8' o.c.	25
	Live oak	<i>Quercus virginiana</i>	3 gallon	15' o.c.	25
	Sand Cord Grass	<i>Spartina bakeri</i>	1 gallon	3' o.c.	200

CONTRACTOR TO VERIFY ALL
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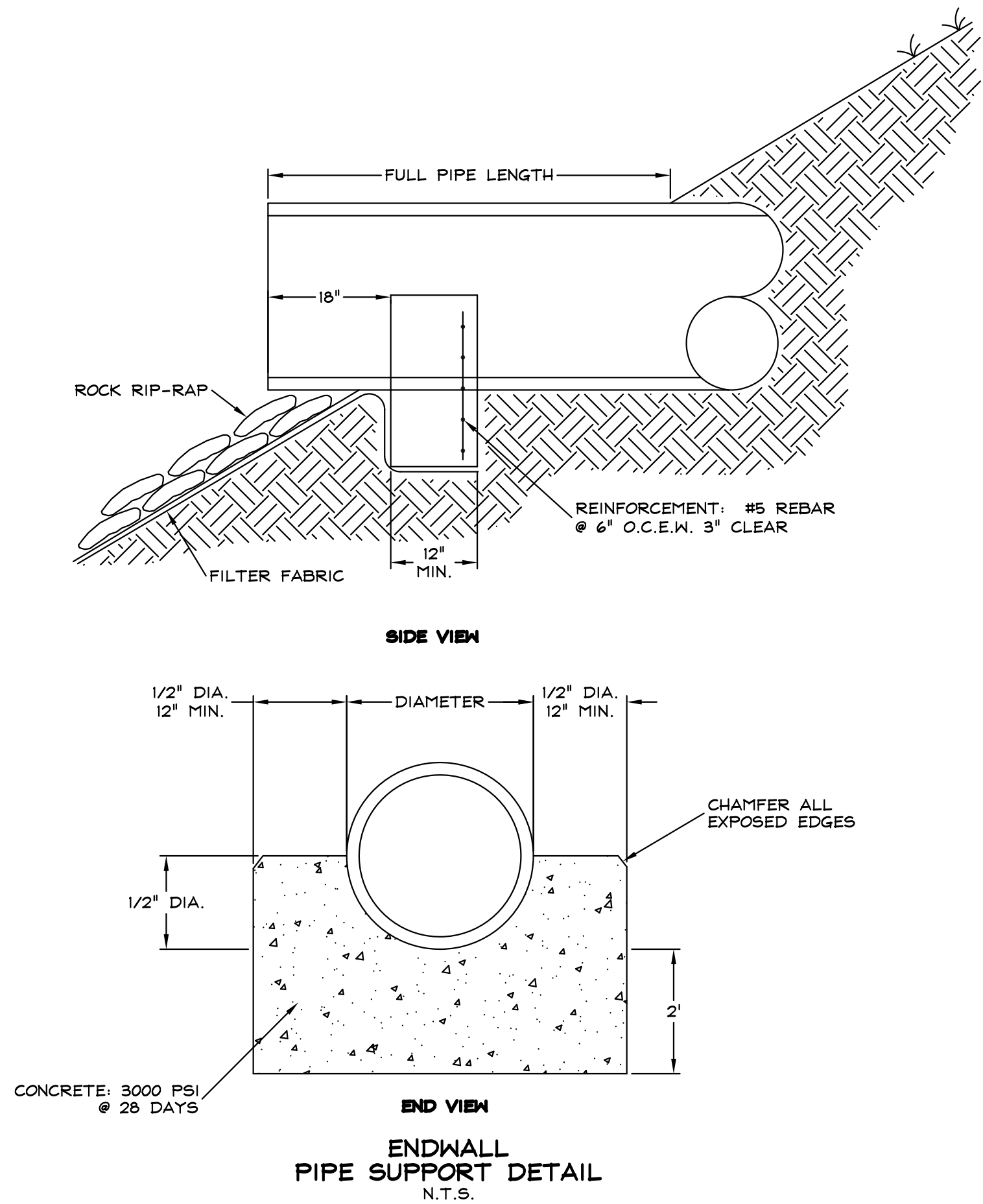
NO.	REVISIONS	DATE	BY
2	REV. PER CITY COMMENTS	01/13/23	JRR
1	REV. PER CITY COMMENTS	02/10/23	JRR



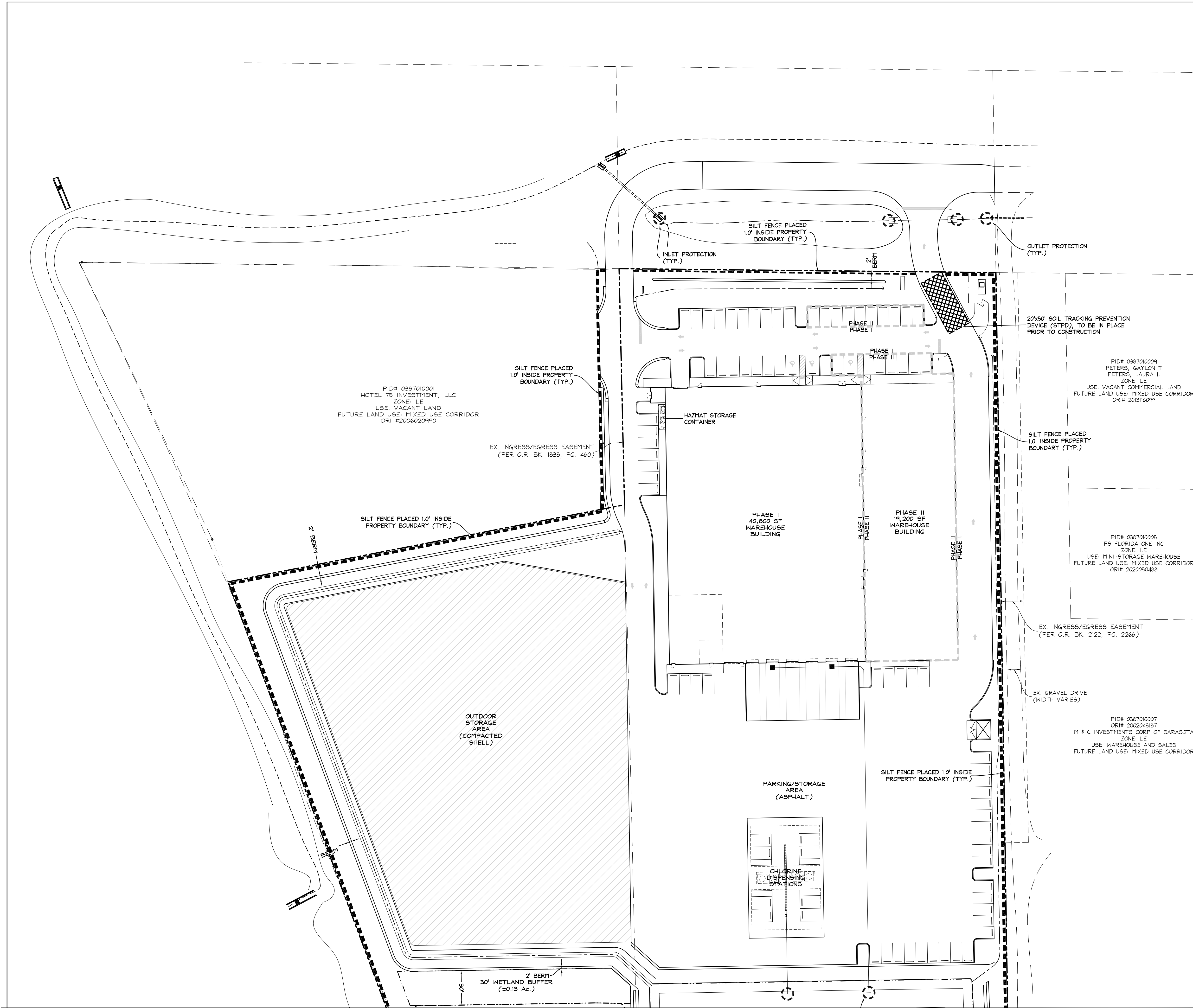
NOTE: ALL BAFFLES TO BE MOUNTED 6" PAST EITHER SIDE OF THE WEIR OPENING

"WEIR INFORMATION"									
STRUCT. ID	A TREATMENT WEIR EL (FT)	B TREATMENT WEIR WIDTH (FT)	C TREATMENT WEIR HEIGHT (FT)	D ATTENUATION WEIR 1 EL (FT)	E ATTENUATION WEIR 1 WIDTH (FT)	F ATTENUATION WEIR 1 HEIGHT (FT)	G RIM EL (FT)	H PIPE INVERT (FT)	I PIPE DIAMETER (IN)
CSI	14.10	0.6	1.40	14.10	0.6	N/A	15.50	12.00	36

CONTROL STRUCTURE TABLE (MODIFIED FDOT INLET)
N.T.S.



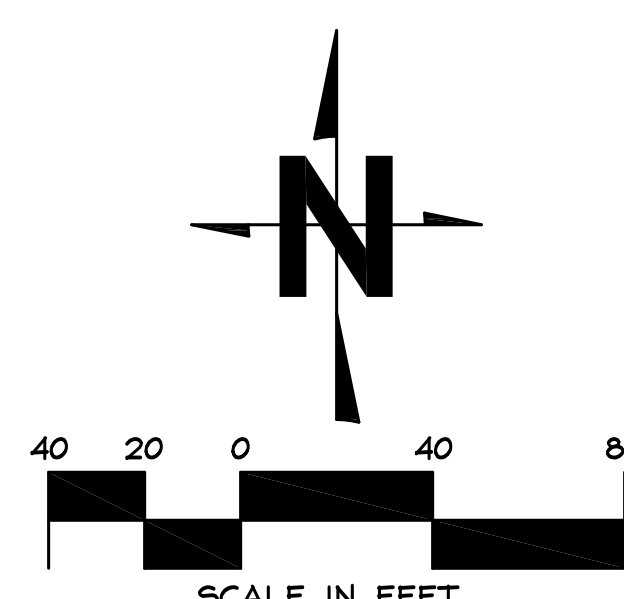
CONTRACTOR TO VERIFY ALL
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POLLUTION PREVENTION NOTES:

- 1) EROSION AND SEDIMENT CONTROL BMPs IN ADDITION TO THOSE PRESENTED ON THE PLANS AND OUTLINED IN THE EROSION AND SEDIMENT CONTROL PLAN (ECP), BEST MANAGEMENT PRACTICES (BMP) PLAN, OR STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE IMPLEMENTED AS NECESSARY TO PREVENT TURBID DISCHARGES FROM FLOWING ONTO ADJACENT PROPERTIES OR ROADWAYS, OFF SITE STORMWATER CONVEYANCES OR RECEIVING WATERS, OR ON SITE WETLANDS AND SURFACE WATERS. BMPs SHALL BE DESIGNED, INSTALLED, AND MAINTAINED BY THE SITE OPERATOR TO ENSURE THAT OFF SITE SURFACE WATER QUALITY REMAINS CONSISTENT WITH STATE AND LOCAL REGULATIONS. [THE OPERATOR IS THE ENTITY THAT OWNS OR OPERATES THE CONSTRUCTION ACTIVITY AND HAS AUTHORITY TO CONTROL THOSE ACTIVITIES AT THE PROJECT NECESSARY TO ENSURE COMPLIANCE.]
- 2) OFF SITE SURFACE WATER DISCHARGES, DISCHARGES TO THE MS4, OR DISCHARGES TO ONSITE WETLANDS OR SURFACE WATERS WITH TURBIDITY IN EXCESS OF 29 NEPHELOMETRIC TURBIDITY UNITS (NTUS) ABOVE BACKGROUND LEVEL SHALL BE IMMEDIATELY CORRECTED. SUCH INCIDENTS SHALL BE REPORTED TO CITY OF VENICE PUBLIC WORKS DEPARTMENT, STORMWATER MANAGEMENT DIVISION, WITHIN 24 HOURS OF THE OCCURRENCE (941) 882-7413. THE REPORT SHALL INCLUDE THE CAUSE OF THE DISCHARGE AND CORRECTIVE ACTIONS TAKEN.
- 3) THE OPERATOR SHALL ENSURE THAT ADJACENT PROPERTIES ARE NOT IMPACTED BY WIND EROSION, OR EMISSIONS OF UNCONFINED PARTICULATE MATTER IN ACCORDANCE WITH RULE 62-296.320(4)(C), F.A.C., BY TAKING APPROPRIATE MEASURES TO STABILIZE AFFECTED AREAS.
- 4) FUEL AND OTHER PETROLEUM PRODUCT SPILLS THAT ENTER STORM WATER DRAINS OR WATER BODIES, OR FUEL AND OTHER PETROLEUM PRODUCT SPILLS THAT ARE IN EXCESS OF 25 GALLONS SHALL BE CONTAINED, CLEANED UP, AND IMMEDIATELY REPORTED TO CITY OF VENICE PUBLIC WORKS DEPARTMENT (941) 486-2422. SMALLER GROUND SURFACE SPILLS SHALL BE CLEANED UP AS SOON AS PRACTICAL.
- 5) IF PREVIOUSLY UNKNOWN RECOGNIZED ENVIRONMENTAL CONDITIONS (E.G. CONTAMINATED SOIL AND/OR GROUNDWATER, BURIED WASTES, ETC.) ARE DISCOVERED DURING DEVELOPMENT OF THE SITE, ALL ACTIVITY IN THE IMMEDIATE VICINITY SHALL CEASE, AND CITY OF VENICE PUBLIC WORKS DEPARTMENT, STORMWATER MANAGEMENT DIVISION, SHALL BE CONTACTED (941) 882-7413.
- 6) PRIOR TO RENOVATION OR DEMOLITION OF EXISTING ON SITE STRUCTURES AN ASBESTOS SURVEY AND/OR ASBESTOS NOTIFICATION MAY BE REQUIRED.
- 7) FERTILIZER APPLICATION SHALL BE CONSISTENT WITH THE CITY OF VENICE STORMWATER REGULATIONS..
- 8) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM - STORMWATER:
 - A. NPDES CONSTRUCTION GENERIC PERMIT COVERAGE SHALL BE OBTAINED AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION COMMENCEMENT IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES (AKA. CONSTRUCTION GENERIC PERMIT, OR CGP);
 - B. A COPY OF THE CERTIFIED NPDES NOI, OR A COPY OF THE FDEP COVERAGE CONFIRMATION LETTER SHALL BE POSTED AT THE SITE IN ACCORDANCE WITH PART 2.6 OF THE GENERIC PERMIT;
 - C. A COPY OF THE CERTIFIED NPDES NOI, OR A COPY OF THE FDEP COVERAGE CONFIRMATION LETTER SHALL BE PROVIDED TO CITY OF VENICE WITHIN 7 CALENDAR DAYS IN ACCORDANCE WITH PART 2.6 OF THE GENERIC PERMIT;
 - D. THE SWPPP SHALL BE CERTIFIED IN ACCORDANCE WITH PART 4.6 OF THE GENERIC PERMIT, AND A COPY OF THE CERTIFIED DOCUMENT SHALL BE SUBMITTED TO THE CITY OF VENICE AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION;
 - E. A COPY OF THE SWPPP, AND COPIES OF THE INSPECTION AND MAINTENANCE RECORDS SHALL BE MAINTAINED AT THE PROJECT SITE, AND SHALL BE READILY AVAILABLE TO CITY, COUNTY OR STATE INSPECTORS AT ALL TIMES;
- 9) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM - DEWATERING:

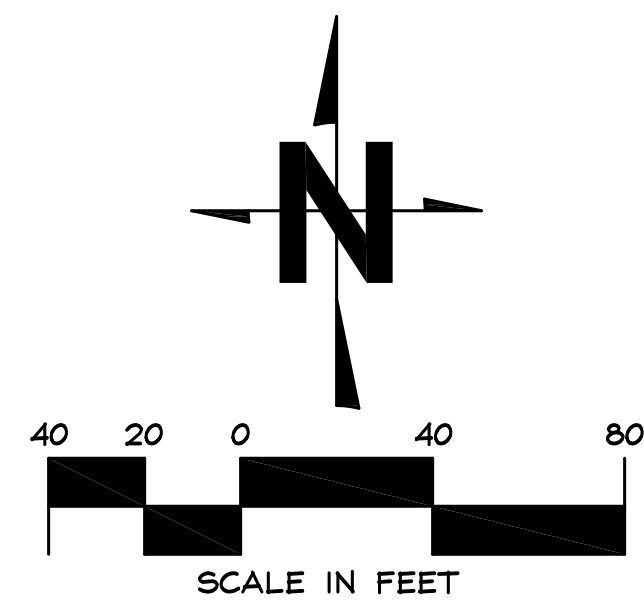
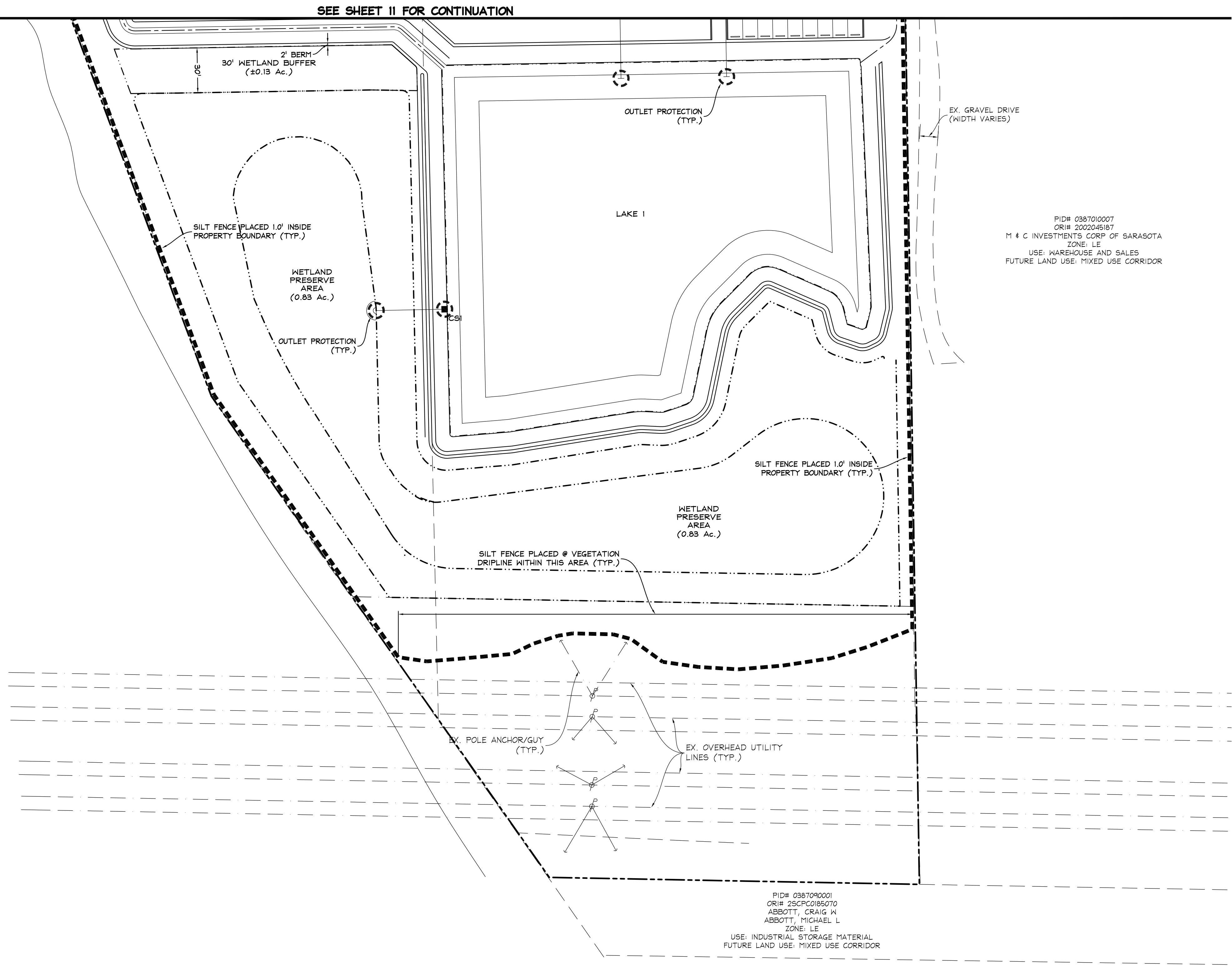
IF NOT OTHERWISE COVERED AS OUTLINED UNDER PART 3.4 OF THE GENERIC PERMIT, THE DISCHARGE OF GROUNDWATER PRODUCED THROUGH DEWATERING TO SURFACE WATERS, OR TO ANY PORTION OF THE MS4 WILL REQUIRE SEPARATE PERMITTING FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP). PERMIT(S) SHALL BE OBTAINED PRIOR TO THE COMMENCEMENT OF DEWATERING. ANALYTICAL RESULTS FROM PRE-DISCHARGE TESTING SHALL BE PROVIDED TO CITY OF VENICE;



CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF CONSTRUCTION

SEE SHEET 12 FOR CONTINUATION

		9/13/23	JRR		
3	PER CITY REVIEW			6/22/23	JRR
2	PER CITY REVIEW			2/10/23	SLG
1	PER CITY REVIEW				
	REVISIONS			DATE	BY



CONTRACTOR TO VERIFY ALL
EXISTING CONDITIONS PRIOR TO
THE START OF CONSTRUCTION

CAVOLI Engineering, Inc.
Consulting Civil Engineers
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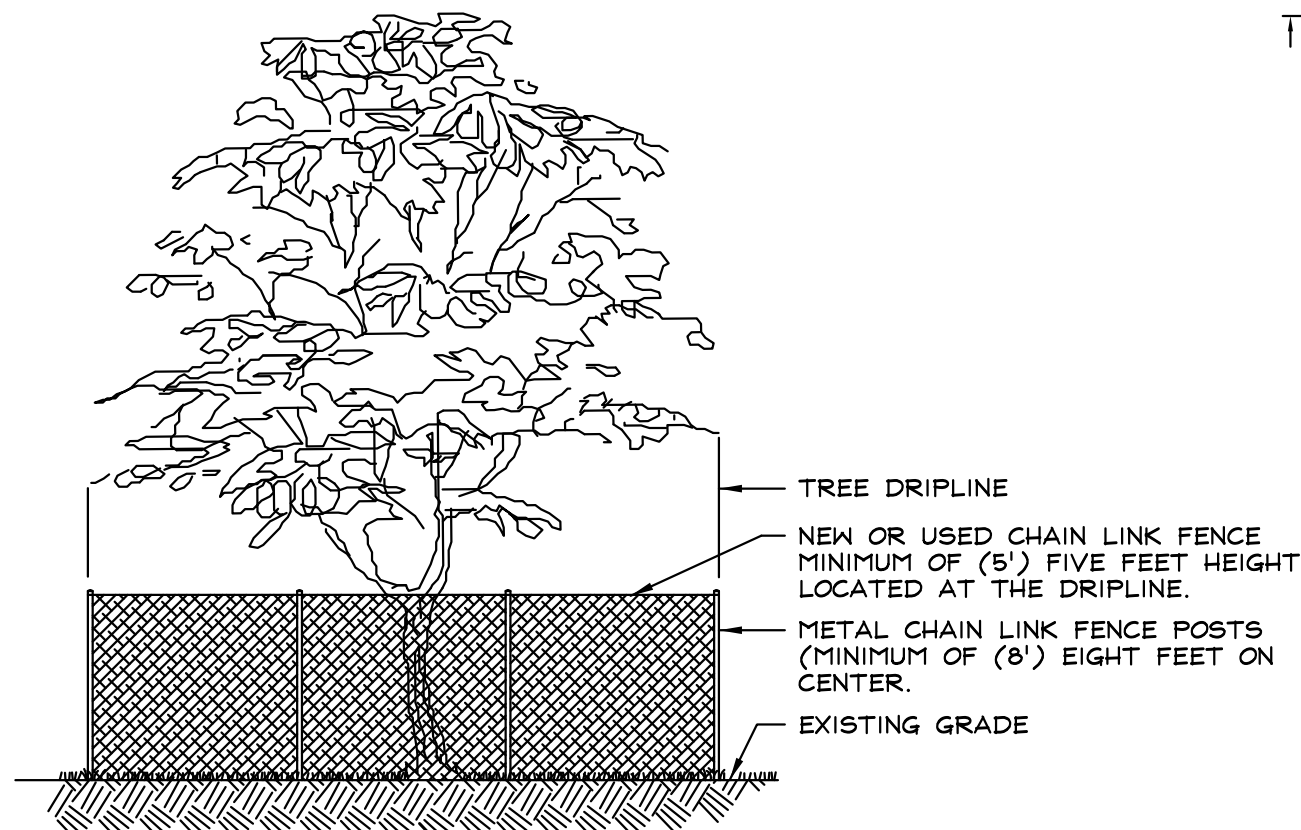
CLIENT: POOL DEVELOPMENT, LLC
PROJECT: REGIONAL FLEX FACILITY
SHEET: SEDIMENT / EROSION CONTROL PLAN

NO.	REVISIONS	DATE	BY
2	PER CITY REVIEW	9/13/23	JRR
1	PER CITY REVIEW	6/22/23	JRR

JOHN F. CAVOLI, P.E. FL LICENSE NO.: 48692

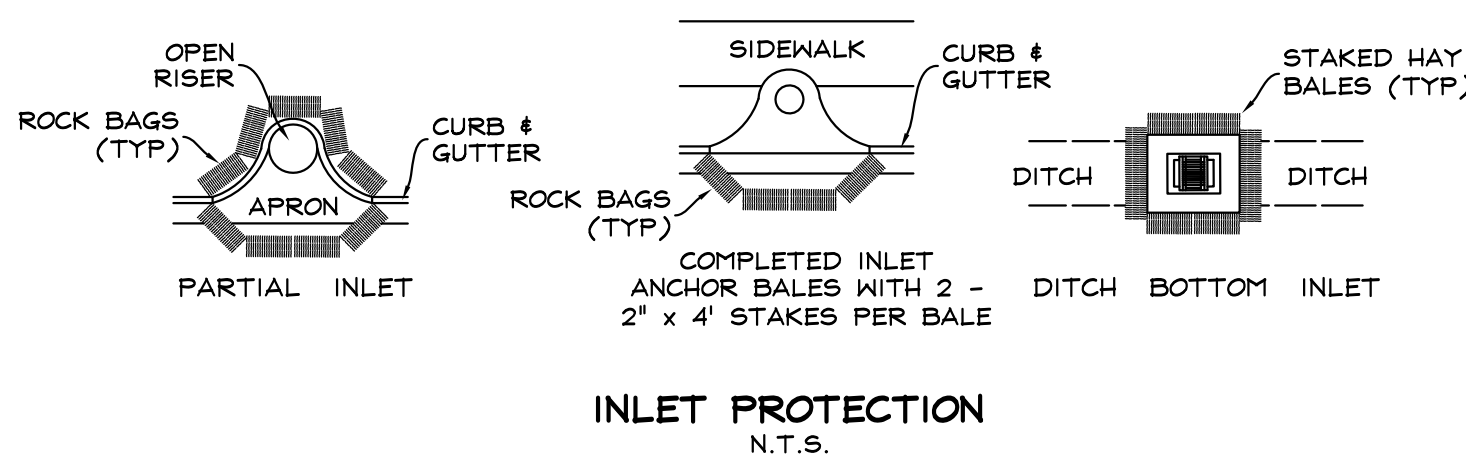
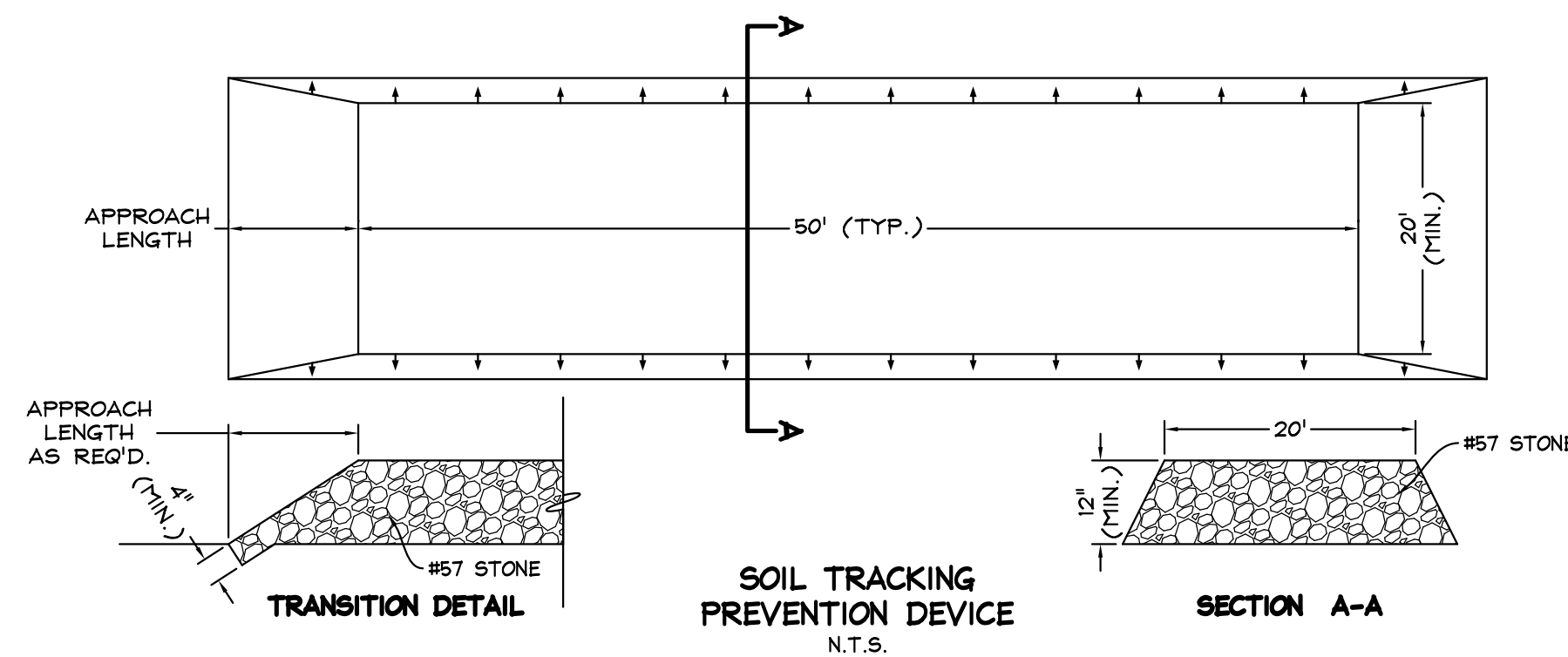
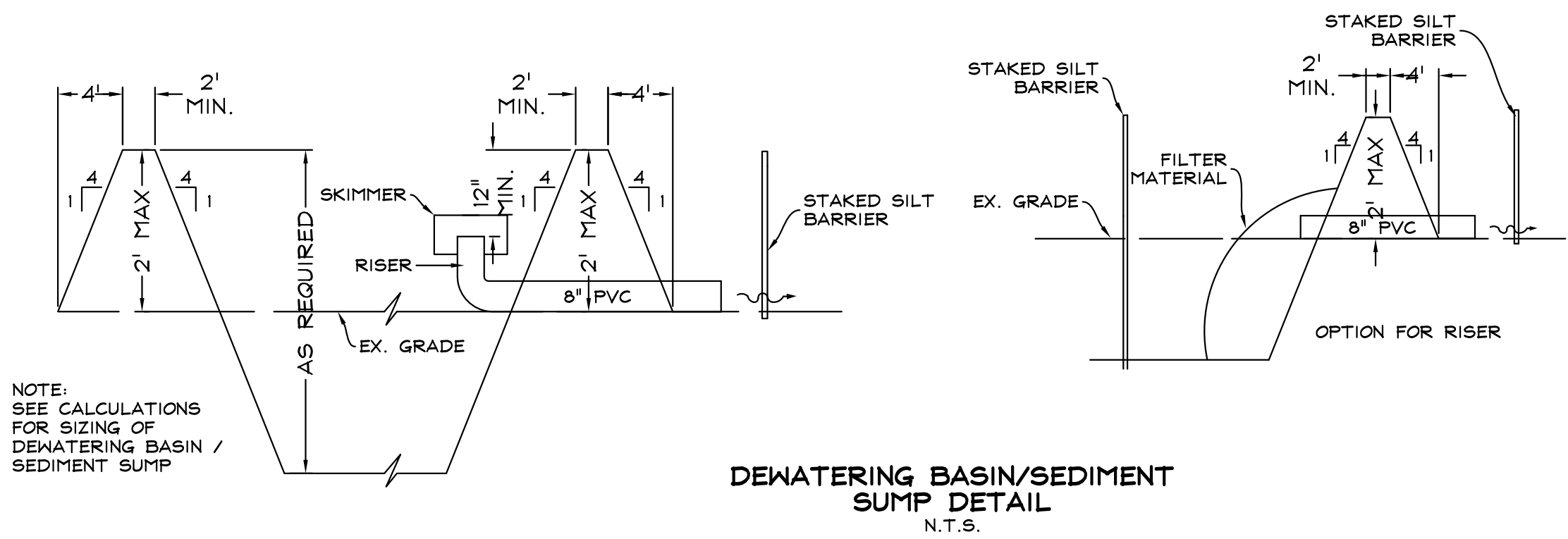
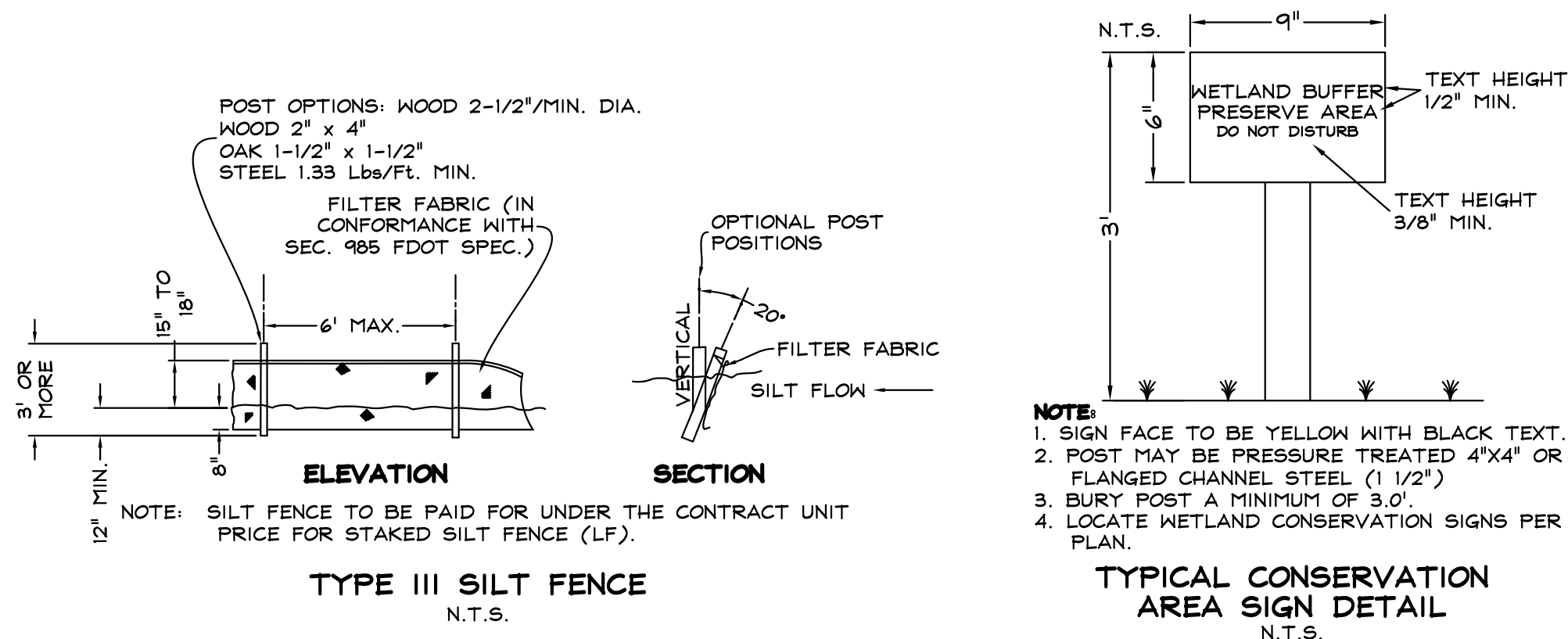
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BARRIER SHALL BE PLACED AT THE DRIPLINE AROUND THE TREE(S) TO BE PROTECTED. NO IMPROVEMENTS, FILL, GRADE CHANGES OR COMPACTION OF SOIL DUE TO HEAVY MACHINERY IS TO BE PERMITTED WITHIN THE DRIPLINE OF THE TREE(S) PROPOSED TO BE PRESERVED. THE AREA WITHIN THE DRIPLINE IS TO REMAIN UNDISTURBED. BARRICADES ARE TO BE CONSTRUCTED IN PLACE PRIOR TO COMMENCEMENT OF CONSTRUCTION.



NOTE: CHAINLINK FENCE TO ONLY BE UTILIZED FOR PROTECTION OF SIGNIFICANT TREES (OVER 30" CALIPER). ORANGE OR SILT FENCE CAN BE UTILIZED OTHERWISE INSTALLED AT THE DRIPLINE UNLESS OTHERWISE NOTED.

TREE PROTECTION DETAIL
(PRIOR TO CONSTRUCTION ACTIVITIES)
N.T.S.



EROSION CONTROL NOTES GENERAL:

- * EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED DURING CONSTRUCTION BY THE CONTRACTOR. SITE SPECIFIC BEST MANAGEMENT PRACTICES SHALL PREVENT SEDIMENT AND OTHER HARMFUL CONTAMINANT ENTERING THE STORM WATER MANAGEMENT SYSTEM AND ADJACENT PROPERTIES.
- * THE EFFECTIVENESS OF THE SEDIMENT AND EROSION CONTROL PRACTICES SHALL BE CHECKED DAILY BY THE CONTRACTOR.
- * THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SILTATION ENTERING THE STORM WATER MANAGEMENT SYSTEM BOTH ON-SITE AND OFF-SITE.
- * ALL SEDIMENT AND EROSION CONTROL MEASURES WILL BE VERIFIED AND INSPECTED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- * ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO THE EXISTING CONDITION, OR BETTER, TO THE SATISFACTION OF THE OWNER.
- * SILT FENCE MAY BE USED INSTEAD OF TREE PROTECTION BARRICADES, STAFF MUST APPROVE SILT FENCE. FIELD ADJUST SILT FENCE TO AVOID TRENCHING WITHIN DRIP LINES OF TREES, USE OF HAY BALES PERMITTED.

SITE GRADING PRACTICES:

- * SEDIMENT AND EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY EARTH MOVING ACTIVITIES.
- * THE CONTRACTOR SHALL MINIMIZE IMPACT TO AREAS WHICH ARE TO REMAIN UNDISTURBED. ALL AREAS TO REMAIN SHALL BE PROTECTED ACCORDINGLY (TREE BARRICADES, ETC.).
- * TEMPORARY DEWATERING BASINS SHALL BE CONSTRUCTED PRIOR TO STORM WATER MANAGEMENT LAKE EXCAVATION.
- * STOCKPILED AREAS SUCH AS TOPSOIL SHALL BE PLACED AND PROTECTED SO AS TO LIMIT SEDIMENT RUNOFF. ANY STOCKPILED MATERIAL NOT USED WITHIN 30 DAYS SHALL BE STABILIZED.
- * ORGANIC MATERIAL AND DEBRIS SHALL BE DISPOSED OF ACCORDINGLY.
- * ALL SLOPES SHALL BE IN ACCORDANCE WITH THE PLANS AND STABILIZED IMMEDIATELY UPON COMPLETION OF FINAL GRADING.

WETLAND PROTECTION:

- * ALL WETLANDS AND BUFFERS SHALL BE IDENTIFIED AND DELINEATED PRIOR TO THE START OF CONSTRUCTION.
- * PRIOR TO PERFORMING ANY WORK WITHIN THE WETLAND DRAINAGE BASIN, ALL REQUIRED EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AS CALLED FOR ON THE PLANS.
- * TEMPORARY AND/OR PERMANENT IMPACTS TO WETLANDS AND/OR BUFFERS SHALL BE MINIMIZED. THESE AREAS WILL BE CLEARLY DEFINED AND APPROPRIATE MEASURES TAKEN TO ENSURE NO ADDITIONAL AREAS ARE AFFECTED.
- * MATERIAL FROM IMPACTED AREAS SHALL BE STOCKPILED AND USED IN THE RESTORATION OF SUCH AREAS.
- * ANY ADDITIONAL IMPACTS OR DAMAGE TO WETLANDS AND BUFFER SHALL BE IDENTIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RESTORATION OF THE ADDITIONAL IMPACTS OR DAMAGE.

TEMPORARY DEWATERING BASINS (IF REQUIRED):

- * DEWATERING BASINS SHALL BE PROVIDED TO ENSURE NO OFF-SITE DISCHARGE VIOLATE TURBIDITY STANDARDS.
- * ALL TEMPORARY DEWATERING BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS.
- * ALL BASIN SLOPES SHALL BE A MAXIMUM OF 4:1 HORIZONTAL TO VERTICAL.
- * BASIN OUTFALL PIPE TO HAVE EITHER A RISER STRUCTURE WITH SKIMMER OR PROVIDE A MEANS OF FILTERING WATER PRIOR TO DISCHARGE.
- * ALL EMBANKMENTS SHALL BE COMPACTED AND STABILIZED TO PREVENT BREACHING.
- * DEWATERING SHALL NOT EXCEED 120 DAYS OR A WATER USE PERMIT MUST BE OBTAINED FROM THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT AND WILL NOT EXCEED A DEWATER RATE OF 3.34 FPS OR AS INDICATED BY THE DEWATER CALCULATION IN THE STORM WATER MANAGEMENT REPORT.

MAINTENANCE OF SEDIMENT AND EROSION CONTROL PRACTICES:

- * ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED DAILY AND/OR AFTER ANY STORM EVENT FOR INTEGRITY AND REPAIRED AND/OR REPLACED ACCORDINGLY IF SIGNS OF FAILURE ARE OBSERVED.
- * SEDIMENT SHALL BE REMOVED FROM ALL SUMP AREAS AS NECESSARY TO MAINTAIN REQUIRED VOLUMES.
- * ALL SEDIMENT AND EROSION CONTROL MEASURES WILL REMAIN IN PLACE UNTIL ALL STABILIZATION HAS BEEN COMPLETED.
- * ANY EROSION EXPERIENCED UPON REMOVAL OF SEDIMENT AND EROSION CONTROL MEASURES WILL BE STABILIZED IMMEDIATELY.

SEQUENCING PLAN:

- * SITE PERIMETER SILT FENCE TO BE INSTALLED PRIOR TO ANY EARTH MOVING ACTIVITIES.
- * SILT FENCE IN RORCPIDE SHALES TO BE INSTALLED PRIOR TO DEWATERING OR INITIATION OF ANY RIGHT-OF-WAY IMPROVEMENTS.
- * AS INLETS WITH PIPING ARE CONSTRUCTED, INLET PROTECTION WILL BE INSTALLED.
- * SEDIMENT AND EROSION CONTROL MEASURES WILL BE INSPECTED DAILY FOR PROPER OPERATION.
- * STABILIZATION MEASURES WILL BE INITIATED IMMEDIATELY UPON COMPLETION OF FINAL GRADING.
- * SEDIMENT AND EROSION CONTROL MEASURES WILL BE REMOVED ONLY UPON COMPLETION OF ALL STABILIZATION MEASURES.

SEDIMENT & EROSION CONTROL PLAN:

EROSION AND SEDIMENT CONTROL PLAN (ESCP). PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES AUTHORIZED WITH SITE PLAN APPROVAL, THE DEVELOPER SHALL BE REQUIRED TO SUBMIT AN EROSION AND SEDIMENT CONTROL PLAN (ESCP) TO THE CITY OF VENICE ENGINEERING DEPARTMENT FOR REVIEW AND APPROVAL. THE PLAN SHALL IDENTIFY CONSTRUCTION SEQUENCING, BEST MANAGEMENT PRACTICES (BMPS) TO MINIMIZE EROSION AND SEDIMENTATION AND TO MANAGE THE QUALITY AND QUANTITY OF STORMWATER RUNOFF DURING AND AFTER CONSTRUCTION, AND OTHER PRACTICES EMPLOYED TO MINIMIZE FUGITIVE PARTICULATE EMISSIONS DURING AND AFTER CONSTRUCTION. GENERALLY, PROJECTS THAT ARE GREATER THAN FIVE (5) ACRES AND SMALLER PROJECTS WITH MAJOR LAND DISTURBANCES (I.E. STOCKPILING, EXCAVATION OF OVERSIZED LAKES, FILING OF LOTS, ETC.) ARE SUBJECT TO THIS REQUIREMENT. REDEVELOPMENT PROJECTS OR PROJECTS WITH MINOR IMPROVEMENTS MAY NOT BE SUBJECT TO THIS REQUIREMENT. THE CITY ENGINEER OR DESIGNEE MAY, AT HIS/HER DISCRETION, WAIVE THIS REQUIREMENT ON A CASE BY CASE BASIS. THE ESCP SHALL, AT A MINIMUM, INCLUDE THE FOLLOWING INFORMATION:

1. DETAILS OF CONSTRUCTION SEQUENCING, DEWATERING ACTIVITIES AND SUMP LOCATIONS, STOCKPILE AREAS AND/OR DEPOSITION AREAS FOR EXCAVATED MATERIALS:
 - THE SEQUENCING PLAN SHALL PROCEED AS FOLLOWS: THE PERIMETER SILT FENCE SURROUNDING THE SITE SHALL BE INSTALLED PRIOR TO ANY EARTHMOVING ACTIVITIES. THE INLET PROTECTION ELEMENTS SHALL BE INSTALLED IMMEDIATELY FOLLOWING THE INSTALLATION OF THE STORM WATER INLETS WITH THEIR ASSOCIATED PIPING. UPON THE COMPLETION OF FINAL GRADING, STABILIZATION MEASURES WILL BE INITIATED. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED AFTER STABILIZATION HAS TAKEN PLACE.
 - A. DESCRIPTION OF LAND CLEARING/DISTURBING ACTIVITIES, EXISTING SITE CONDITIONS AND ADJACENT LAND USES/AREAS THAT MIGHT BE AFFECTED BY LAND CLEARING/DISTURBANCES.
 - CLEARING AND GRUBBING WILL TAKE PLACE WITHIN THE SITE. EXISTING SITE CONDITIONS INCLUDE A LEVEL SITE WITH TREES. TREE BARRICADES SHALL BE INSTALLED AS PER THE LANDSCAPE PLANS AROUND THE TREES TO BE SAVED.
 - B. IDENTIFICATION OF STOCKPILE AREAS AND/OR DEPOSITION AREAS FOR EXCAVATED MATERIALS:
 - ANY EXCAVATED MATERIAL FROM THE LAKE AREAS SHALL BE USED AS FILL ON THE SITE.
 - C. DESCRIPTION OF POTENTIAL ON-SITE PROBLEM AREAS SUCH AS STEEP GRADE CHANGES, HIGHLY ERODIBLE SOILS, AREAS ADJACENT TO WETLANDS, SURFACE WATERS, OR UPLAND PRESERVATION AREAS:
 - THE PROJECT AREA WILL CONTAIN AREAS ADJACENT TO WETLANDS, SURFACE WATERS, AND/OR UPLAND PRESERVATION AREAS.
 - D. CONSTRUCTION SCHEDULING, INCLUDING THE EXPECTED STARTING AND STABILIZATION DATES:
 - THE ANTICIPATED START DATE OF CONSTRUCTION IS JUNE 1, 2023 AND THE ANTICIPATED COMPLETION OF ALL STABILIZATION IS JUNE 1, 2024 OR WITHIN THREE YEARS OF APPROVAL OF THE PROPOSED SITE PLAN.
 - E. IDENTIFICATION OF DISTURBED AREAS WHERE CONSTRUCTION WILL NOT BE ONGOING, AND FINAL GRADE WILL NOT BE ACHIEVED WITHIN FOURTEEN (14) DAYS, AND AN INDICATION OF TEMPORARY STABILIZATION MEASURES:
 - ANY AREAS OR STOCKPILES THAT ARE TO BE LEFT UNDISTURBED FOR MORE THAN FOURTEEN (14) DAYS SHALL BE TEMPORARILY SEEDED.

SEDIMENT & EROSION CONTROL PLAN (CONT.):

2. DETAILS OF BEST MANAGEMENT PRACTICES AND FUGITIVE PARTICULATE ABATEMENT METHODS:
 - A. DETAILS, DRAWINGS AND CROSS-SECTIONS OF EROSION AND SEDIMENT CONTROL DEVICES, IF DIFFERENT FROM THE APPROVED FINAL SITE PLAN/CONSTRUCTION PLANS, AND WHEN THEY WILL BE INSTALLED:
 - SEE SEDIMENT/EROSION CONTROL PLAN IN THE SITE PLAN.
 - B. MAINTENANCE PROGRAM FOR EROSION AND SEDIMENT CONTROL DEVICES INCLUDING INSPECTION FREQUENCY AND MAINTENANCE ACTIVITIES:
 - EROSION AND SEDIMENTATION DEVICES SHALL BE INSPECTED DAILY TO ENSURE PROPER OPERATION AND AFTER EVERY STORM EVENT.
 - C. HAUL ROUTES AND DETAILS OF APRON STABILIZATION AT INGRESS/EGRESS POINTS TO RIGHTS-OF-WAY:
 - HAUL ROUTES WILL BE DETERMINED BY THE CONTRACTOR. APRON STABILIZATION AT INGRESS/EGRESS POINTS SHALL BE PER THE EROSION AND SEDIMENT CONTROL DEVICE AND PER THE APPROVED SITE PLAN.
 - D. DETAILS/LOCATION OF EQUIPMENT WASHING AREA:
 - THE EQUIPMENT WASHING AREA SHALL BE LOCATED AT THE EDGE OF THE PROPERTY LINE CLOSEST TO THE ENTRANCE/EXIT AREA. IT WILL CONSIST OF A SOIL TRACKING PREVENTION DEVICE PER FDOT INDEX 106.
 - E. DETAILS OF FUGITIVE PARTICULATE ABATEMENT METHODS:
 - FUGITIVE PARTICULATE SHALL BE CONTAINED BY THE MEASURES, MAINLY SILT FENCE, SHOWN ON THE PLANS. FURTHERMORE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE A CLEAN SITE BY MONITORING THE EFFECTIVENESS OF THE SILT FENCE AND WIND BLOWN PARTICLES.
 - F. CONTRACTOR INFORMATION, INCLUDING A TWENTY-FOUR-HOUR, SEVEN-DAY CONTACT AND PHONE NUMBERS:
 - TBD. WILL BE PROVIDED ONCE A CONTRACTOR HAS BEEN CHOSEN.
3. DETAILS OF DEWATERING ACTIVITIES AND LOCATIONS, DRAWINGS AND CROSS-SECTIONS OF DEWATERING SUMPS:
 - DEWATERING DETAILS HAVE BEEN INCLUDED WITH THIS PLAN, TO BE UTILIZED IF DEWATERING IS REQUIRED.
4. WATER QUALITY MONITORING PLAN AND MONITORING STATIONS (IF APPLICABLE):
 - N/A.

ANY CHANGES TO THE APPROVED ESCP MUST BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO IMPLEMENTATION. CHANGES THAT QUALIFY AS AN AMENDMENT TO THE FINAL SITE PLAN AND/OR CONSTRUCTION PLANS MUST BE APPROVED BY THE CITY OF VENICE STORMWATER MANAGEMENT DIVISION PRIOR TO IMPLEMENTATION.

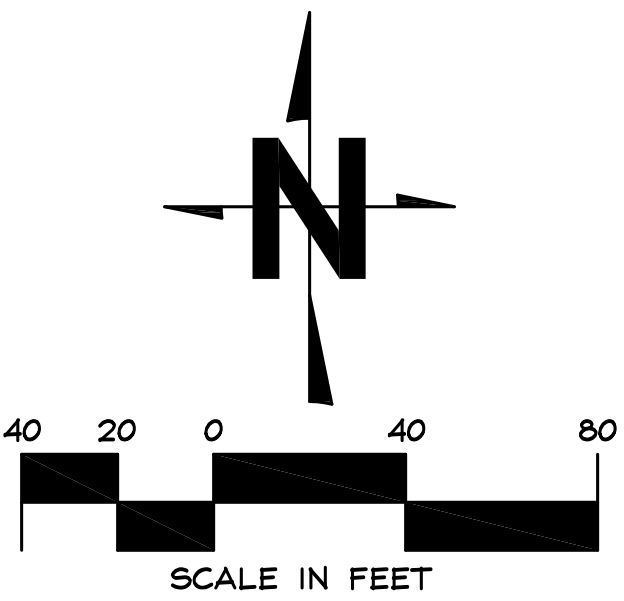
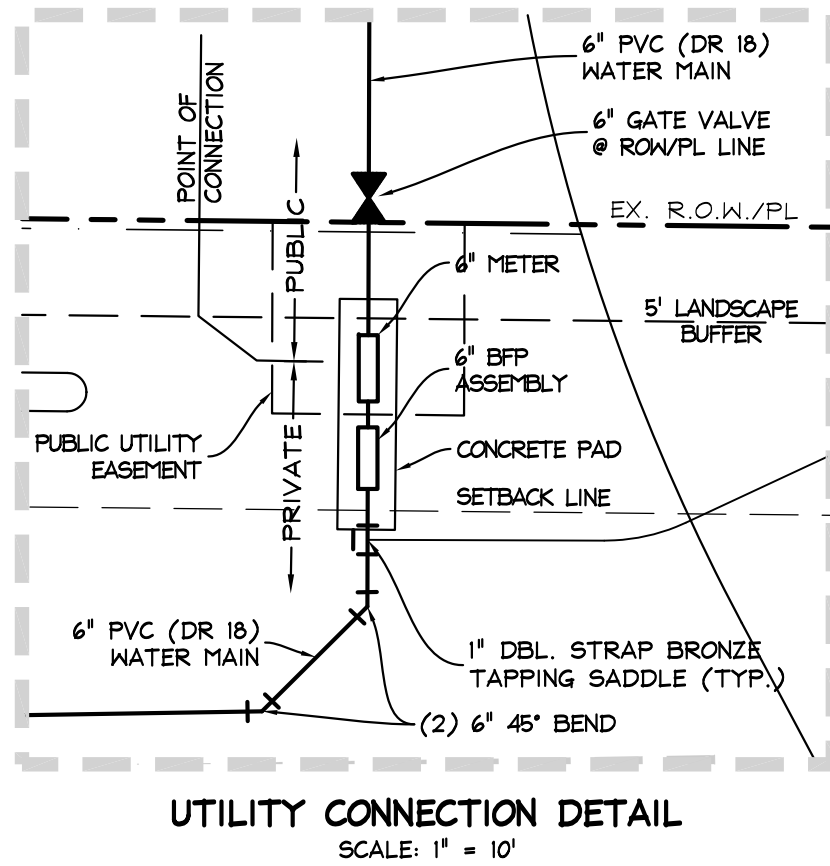
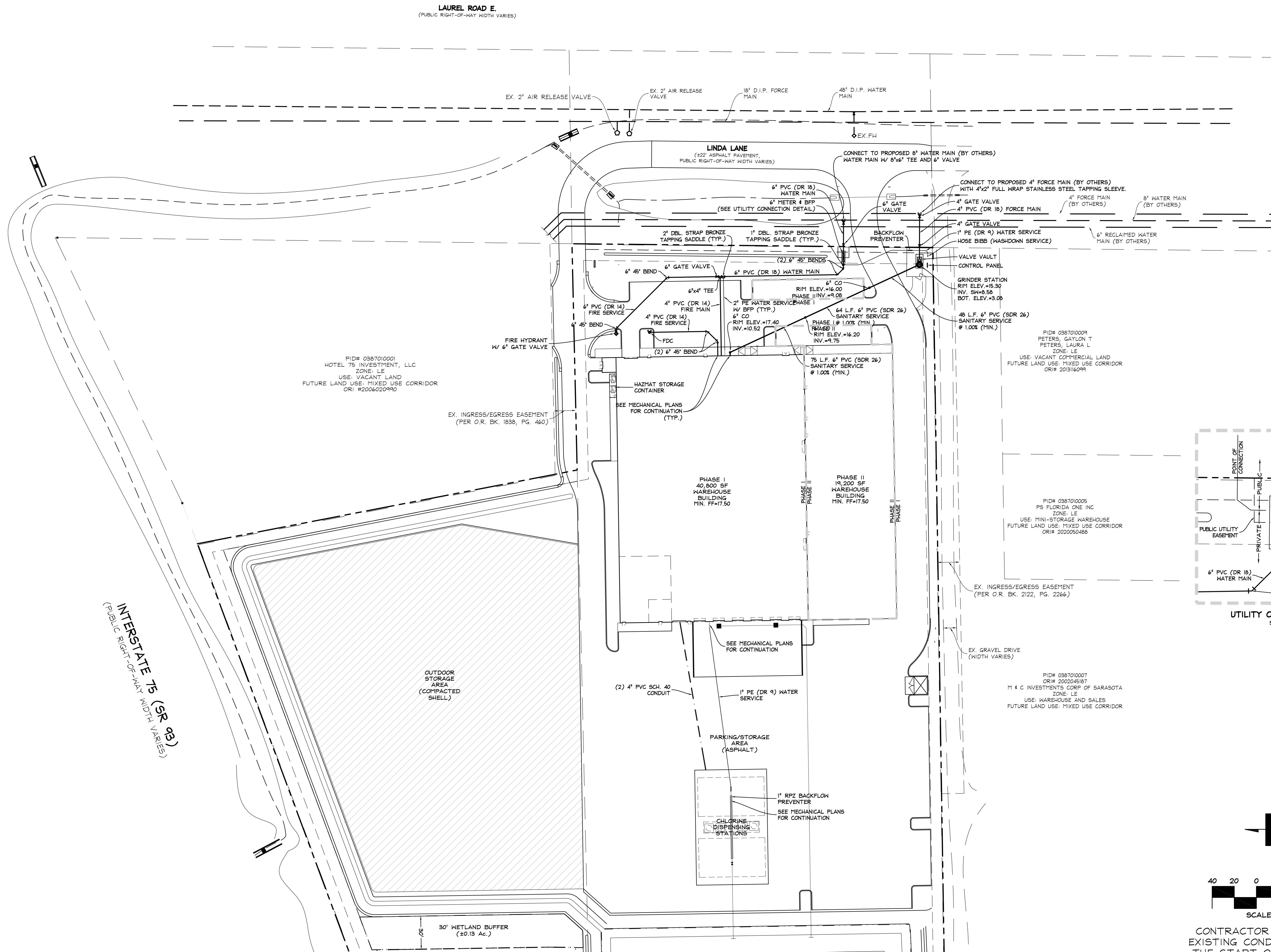
SILT FENCE OR OTHER DEVICES SHALL NOT BE TRENCHED WITHIN THE ROOT SYSTEMS OF ANY TREE TO BE PRESERVED. SILT FENCE WITHIN DRIP LINES IS TO BE INSTALLED AT GRADE OR HAY BALES ARE TO BE UTILIZED.

PRIOR TO CONSTRUCTION COMMENCING THE DEVELOPER SHALL:

1. OBTAIN ALL APPLICABLE APPROVALS (FINAL SITE PLAN, CONSTRUCTION PLANS, ENVIRONMENTAL RESOURCE PERMIT AND NPDES PERMIT).
2. STAKE THE BOUNDARIES OF THE WETLAND BUFFERS, UPLAND PRESERVATION AREAS OR OTHER ENVIRONMENTALLY SENSITIVE AREAS AS INDICATED ON THE APPROVED FINAL SITE PLAN/CONSTRUCTION PLANS.
3. STAKE ALL SILT SCREEN LOCATIONS EVERY ONE HUNDRED (100) FEET, AS INDICATED ON THE APPROVED FINAL SITE PLAN/CONSTRUCTION PLANS.
 - K. SUCH ADDITIONAL MATERIAL AND INFORMATION AS THE DIRECTOR MAY REASONABLY REQUIRE.

CONTRACTOR TO VERIFY ALL
EXISTING CONDITIONS PRIOR TO
THE START OF CONSTRUCTION

NO.	REVISIONS	DATE	BY	SLG
1	PER CITY REVIEW	3/30/23		



CONTRACTOR TO VERIFY ALL
EXISTING CONDITIONS PRIOR TO
THE START OF CONSTRUCTION

CLIENT: POOL DEVELOPMENT, LLC
PROJECT: REGIONAL FLEX FACILITY
SHEET: MASTER UTILITY PLAN

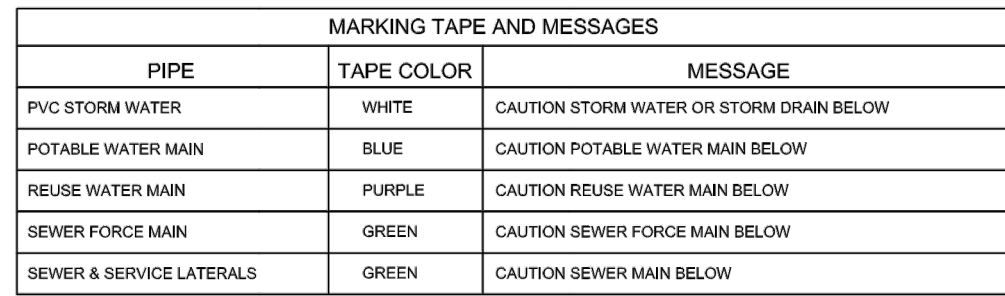
NO.	REVISIONS	DATE	BY
3	REVISED PER CITY	9/13/23	JRR
2	REVISED PER CITY	6/22/23	JRR
1	REVISED PER CITY	3/3/23	SLG

JOHN F. CAVOLI, P.E. FL LICENSE NO.: 48692

DATE
07/06/22
SCALE
1" = 40'
JOB NO.
SCPC01
SHEET
14

CAVOLI Engineering, Inc.
Consulting Civil Engineers
11111 11th Ave. N.
Sarasota, FL 34240
(941) 927-3647
Fax: (941) 927-3646
email: info@covallengineering.com

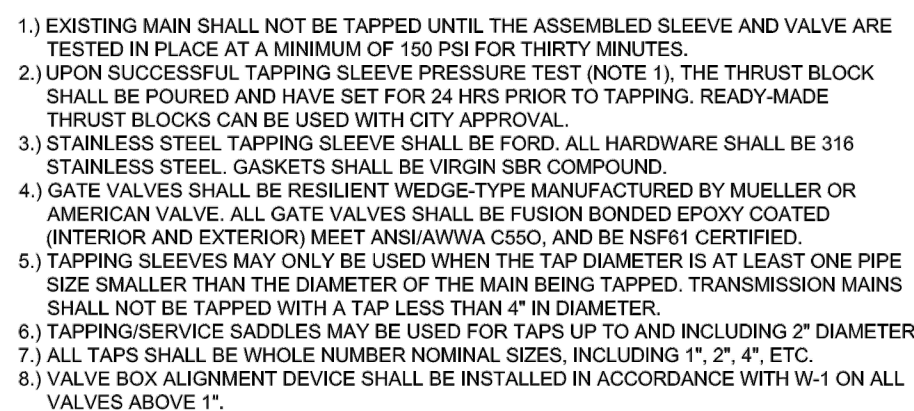
- * ALL PVC WATER PIPE AND FITTINGS SHALL BE MANUFACTURED BY THE SAME COMPANY.
- * ALL DIP WATER PIPE AND FITTINGS SHALL BE MANUFACTURED BY THE SAME COMPANY.
- * ALL FITTINGS, COUPLINGS, AND SLEEVES SHALL BE MECHANICAL JOINT, WITH THE EXCEPTION OF WET TAPS.
- * ALL VALVES, FIRE HYDRANTS, AND CHECK VALVES SHALL SHOW ANMA ON THE CASTING.
- * ALL MATERIALS SHALL BE PER COUNTY CODE AND MEET COUNTY SPECIFICATIONS.
- * PVC WATER PIPE FOUR (4") INCHES TO TWELVE (12") INCHES IN DIAMETER SHALL BE ANMA C900, DR-18 PRESSURE CLASS 150 PSI, BLUE (FOR POTABLE WATER SERVICE) UNLESS NOTED OTHERWISE ON THE PLANS.



- 1) COPPERHEAD TRACING WIRE #12 AWG OR EQUAL SHALL BE ATTACHED TO TOP OF PIPE AT 20' INTERVALS ON ALL RECLAIMED WATER FORCE MAINS. FOR PORTABLE TRACING METHOD, IT SHALL BE ATTACHED TO REFLECT WHAT THE PIPE CARRIES. (BLUE = WATER, GREEN = SEWER, PURPLE = REUSE)
- 2) MINIMUM COVER SHALL BE 42" UNLESS OTHERWISE SPECIFIED. THE MAXIMUM COVER SHALL BE 42" FROM FINISHED GRADE UNLESS OTHERWISE APPROVED.
- 3) MARKING SHALL BE ESTABLISHED AND ELIMINATE HIGH POINTS UNLESS OTHERWISE APPROVED BY UTILITIES DIRECTOR.
- 4) INSTALLATION OF PIPE SHALL BE IN CONFORMANCE WITH MANUFACTURERS' RECOMMENDATIONS.
- 5) PAVEMENT RESTORATION SHALL CONFORM WITH DETAIL ENG-2 OF THESE CITY SPECIFICATIONS. FOR NEW CONSTRUCTION, THE FIRST LIFT OF ASPHALT SHALL BE IN PLACE PRIOR TO THE PIPE INSTALLATION.
- 6) CONFLICTS - UTILIZE 45° BENDS WITH SEPARATION AS PER CITY DETAILS.
- 7) ALL UTILITIES (PUBLIC & PRIVATE) THAT CROSS A DITCH/SWALE SHALL BE 36" MIN. BELOW THE ACTUAL DESIGN BOTTOM OF CONVEYANCE.
- 8) MARKING TAPES SHALL BE 3" WIDE, 1/2" THICK, IDENTIFIABLE UNDERGROUND WARNING TAPE. INSTALL CENTERED DIRECTLY OVER THE PIPE.
- 9) SEE S-6 FOR GRAVITY SEWER PIPE TRENCH DETAIL.

CITY OF VENICE
ENGINEERING DEPARTMENT
401 WEST VENICE AVE.
VENICE FL 34285
(941) 486-2626
FAX (941) 480-3031

DATE	JAN 2023
SHEET NO	



CITY OF VENICE
ENGINEERING DEPARTMENT
401 WEST VENICE AVE.
VENICE FL 34285
(941) 486-2626
FAX (941) 480-3031

DATE	DATE
	JAN 2023
SHEET NO	SHEET NO



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DATE	JAN 2023
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	WATER MAIN	FORCE MAIN	SANITARY SERVICE	REUSE MAIN	STORM WATER	OTHER UTILITIES (TELEPHONE, CABLE, ETC.)
WATER MAIN	3	6	6	3	3	3
FORCE MAIN	6	3	3	3	3	3
SANITARY SEWER	6	3	3	3	3	3
REUSE MAIN	3	3	3	3	3	3
STORM WATER	3	3	3	3	3	3
OTHER UTILITIES	3	3	3	3	3	3

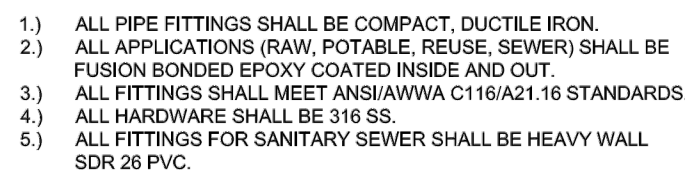
MINIMUM VERTICAL SEPARATION DISTANCES (IN)

	(OUTSIDE OF PIPELINE TO OUTSIDE OF PIPELINE)					
	WATER MAIN	FORCE MAIN	SANITARY SERVICE	REUSE MAIN	STORM WATER	OTHER UTILITIES (TELEPHONE CABLE, ETC.)
WATER MAIN	6	12	12	6	6	6
FORCE MAIN	12	6	6	6	6	6
SANITARY SEWER	12	6	6	6	6	6
REUSE MAIN	6	6	6	6	6	6
STORM WATER	6	6	6	6	6	6
OTHER UTILITIES	6	6	6	6	6	6

1. MAXIMUM JOINT DEFLECTION SHALL BE 90% OF MANUFACTURER'S RECOMMENDATION.
2. WHEREVER POSSIBLE, THE LAYOUT OF UTILITIES SHALL PLACE SANITARY SEWER AND SEWER FORCE MAINS BELOW WATER MAINS AND GAS MAINS, RESPECTIVELY. WHEREVER UTILITIES ARE ABOVE GRAVITY SEWER, WASTEWATER FORCE MAINS, A VERTICAL CLEARANCE OF 6 INCHES IS ACCEPTABLE. STORM SHALL BE PLACED BELOW BOTH WATER AND SEWER WHERE POSSIBLE.
3. ACCEPTABLE VARIANCES:
 - A. WHERE HORIZONTAL SEPARATION CANNOT BE MAINTAINED, C900 DR14 PVC PIPE SHALL BE USED FOR ONE OF THE PIPELINES.
 - B. WHERE VERTICAL CLEARANCE CANNOT BE MAINTAINED, ONE FULL LENGTH OF DR14 C900 PIPE SHALL BE INSTALLED CENTERED AT THE POINT OF CROSSING.
 - C. WHERE 36" MINIMUM DEPTH OF COVER CANNOT BE MAINTAINED, SPECIAL PROTECTION OR PIPE MATERIAL UPGRADE MAY BE REQUIRED, AT THE DISCRETION OF THE UTILITY DEPARTMENT.
4. NO UTILITY SHALL PASS THROUGH OR COME IN CONTACT WITH ANY SANITARY MANHOLE OR STORMWATER STRUCTURE WITHOUT APPROVAL FROM THE UTILITIES DIRECTOR OR CITY ENGINEER.

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DATE	JAN 2023
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SERVICE	COLOR	MATERIAL/CLASS
TABLE WATER MAIN	BLUE	AWWA C900 PVC / DR 18
FW WATER MAIN	WHITE	FUSIBLE C900 PVC / DR 18
USE MAIN	PURPLE	CERT-A-LOK C900 PVC / DR 18
FORCE MAIN (IN. 4" DIAMETER)	GREEN	HDPE PPI PE 4710 / DR 11 / DIPS (WITH UTILITIES DEPARTMENT APPROVAL)
WATER SERVICE	BLUE	PE (POLYTUBING) / DR 9
USE SERVICE	PURPLE	PE (POLYTUBING) / DR 9
SAVITY SEWER MAIN (IN. 8" DIAMETER)	GREEN	ASTMD3034 / SDR 26
WER LATERAL (IN. 6" DIAMETER)	GREEN	ASTMD3034 / SDR 26

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	DATE
	JAN 2023

MINIMUM LENGTH (FT) OF FORCE MAIN TO BE RESTRAINED ON EACH SIDE OF FITTING										
FITTING	PIPE SIZE (INCHES)									
	4	6	8	10	12	16	18	20	24	
45 BEND:	HU	6	9	12	14	16	21	23	25	29
	VU	4	6	7	9	10	13	15	16	19
	VD	12	20	26	32	37	48	53	28	68
22.5 BEND:	HU	3	4	6	7	8	10	11	12	14
	VU	2	3	4	4	5	6	7	8	9
	VD	7	10	13	15	18	23	26	28	33
11.25 BEND:	2	2	3	3	4	5	5	6	7	

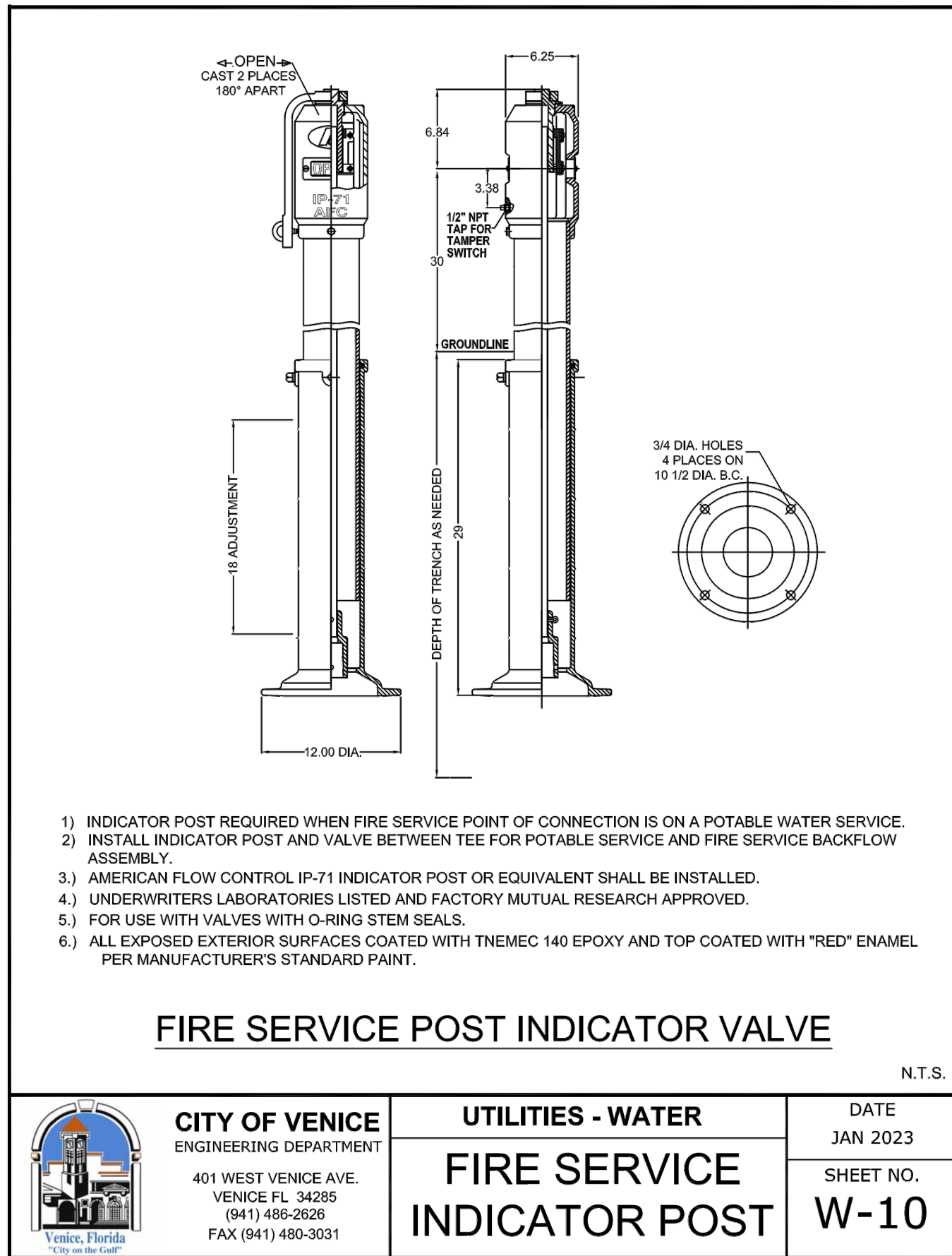
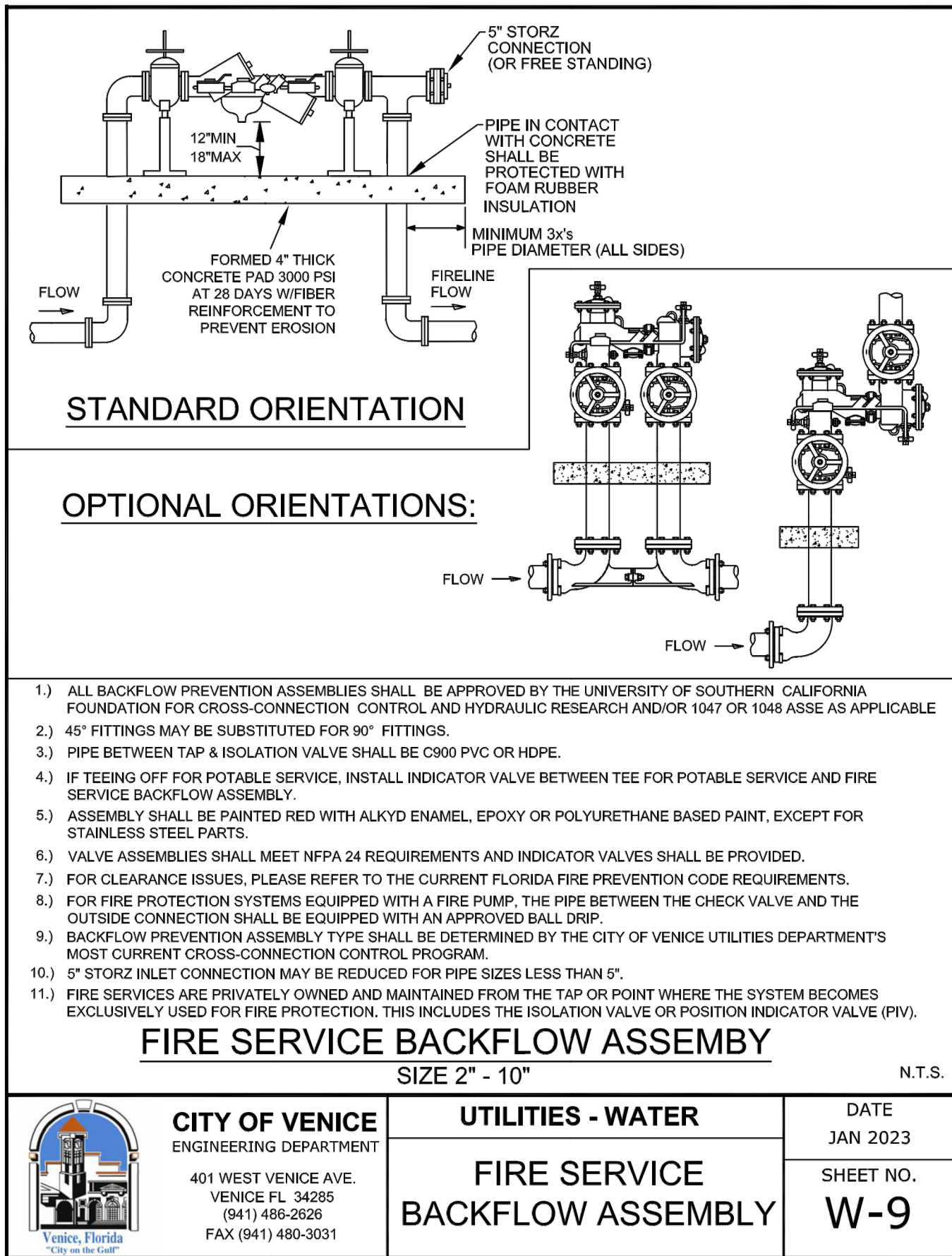
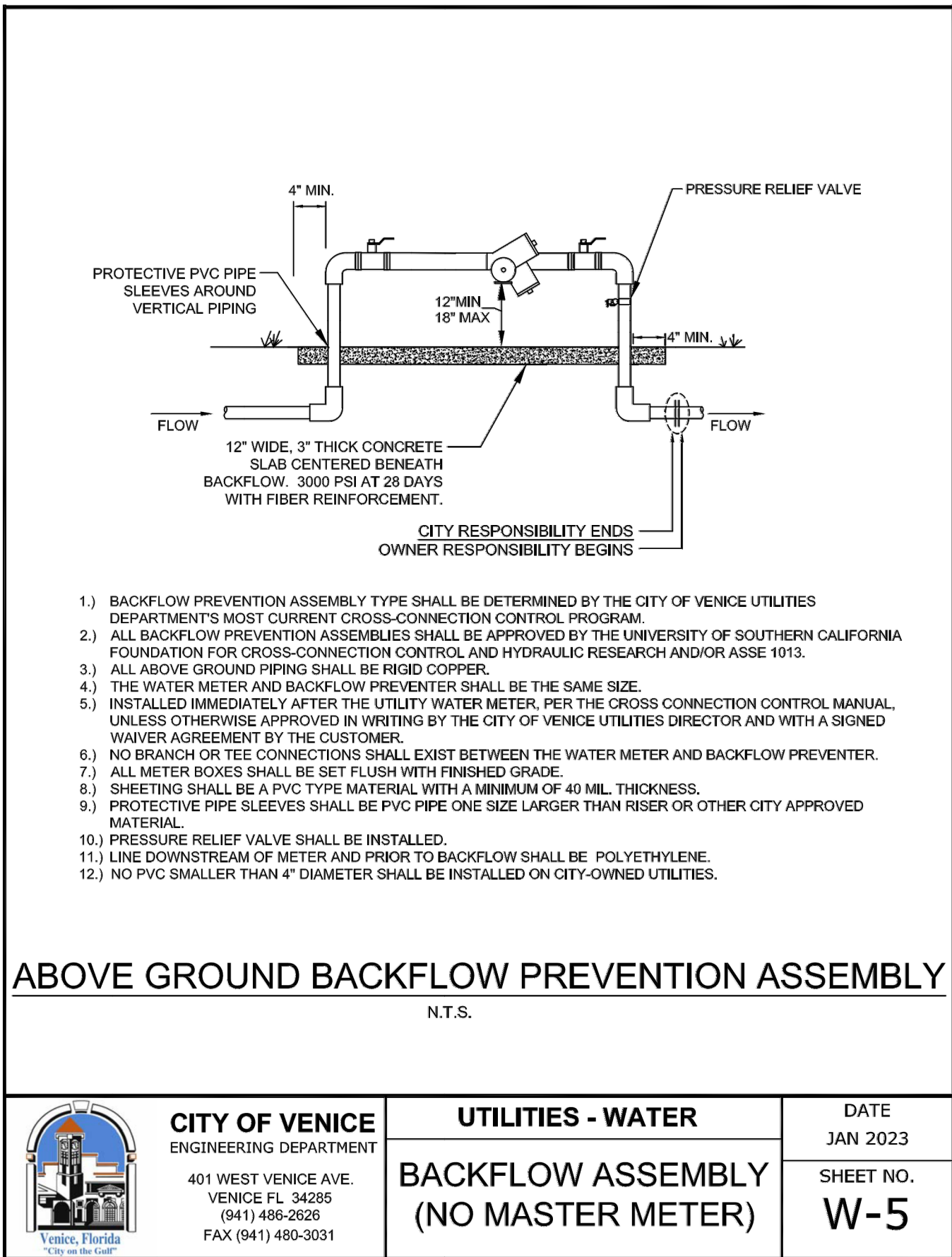
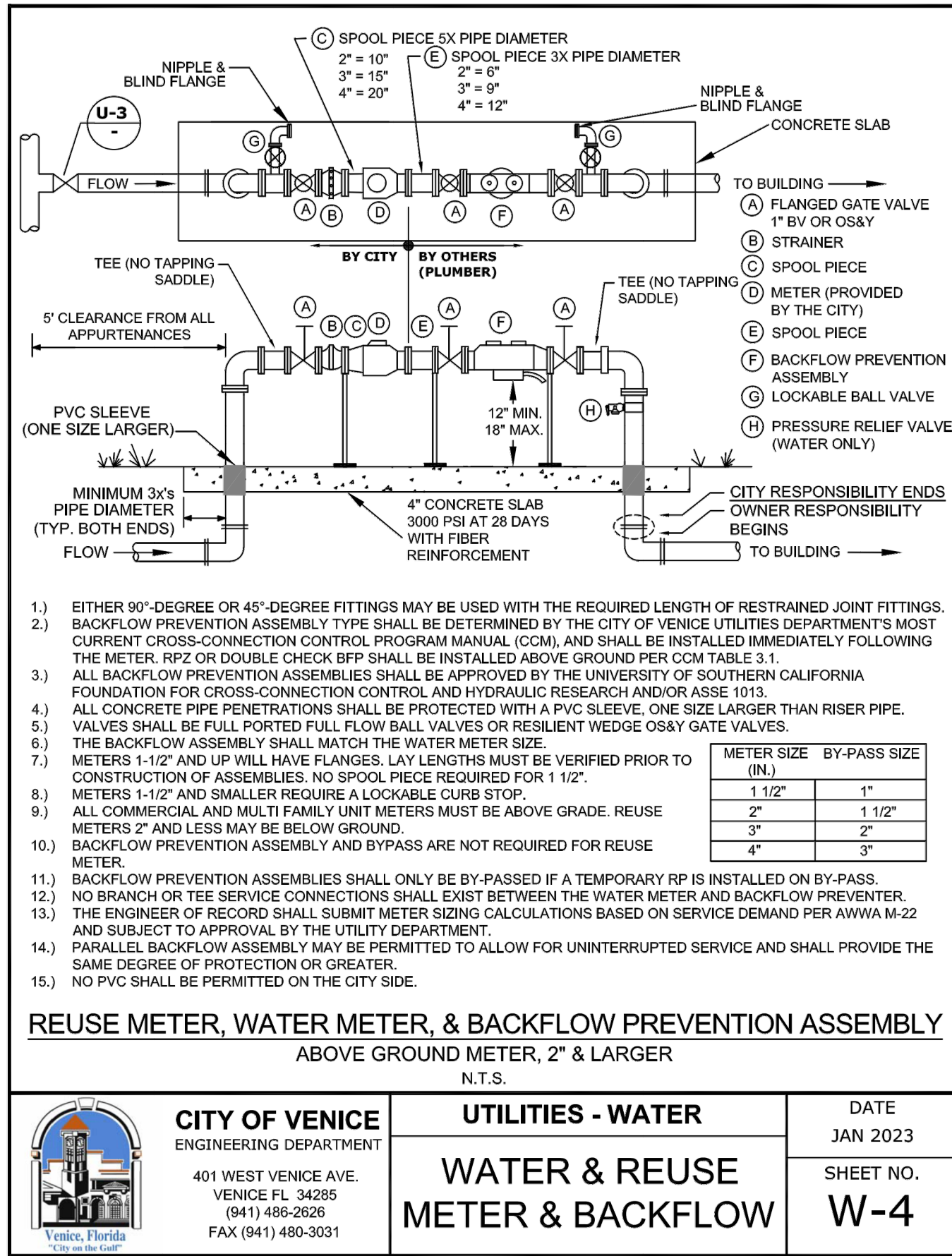
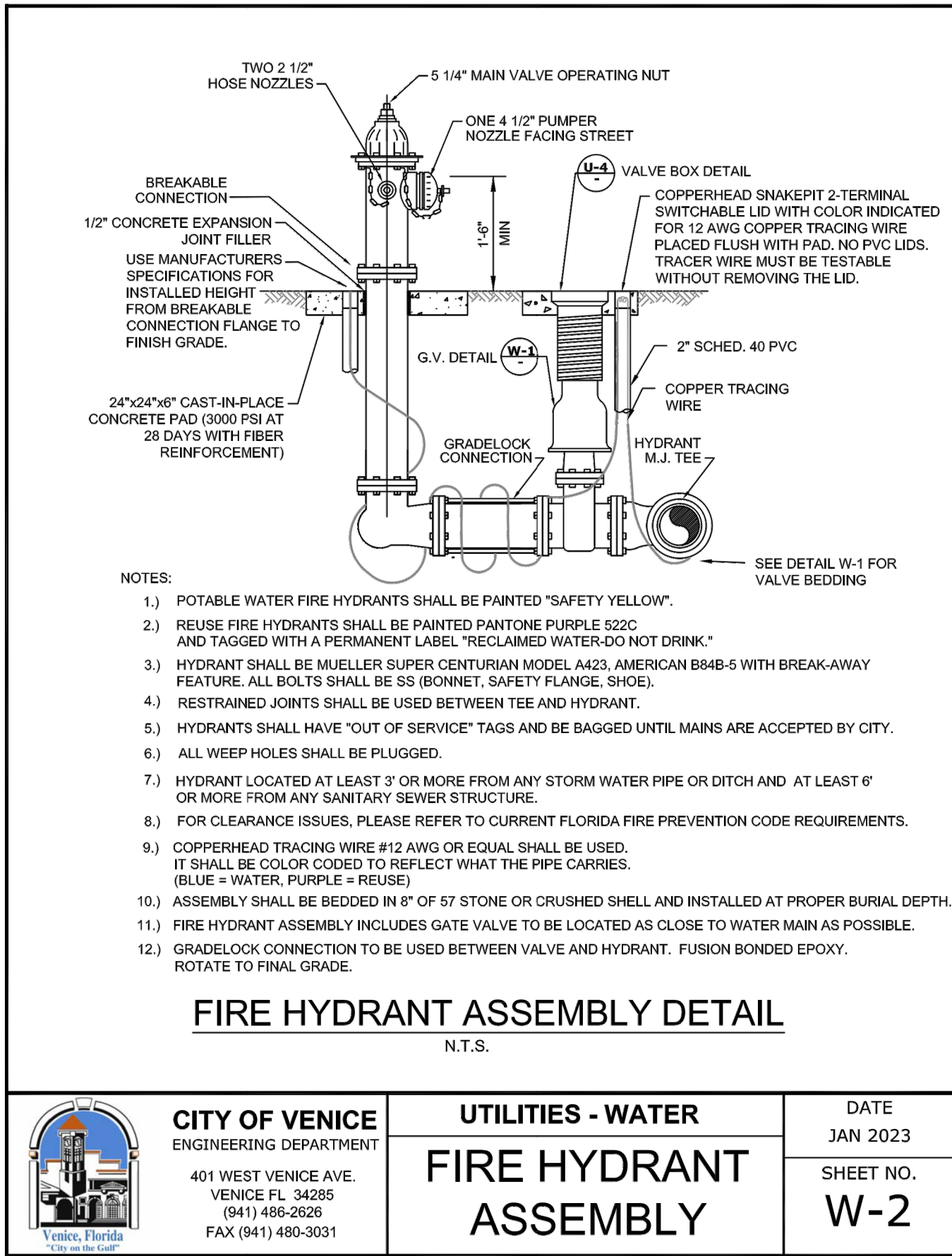
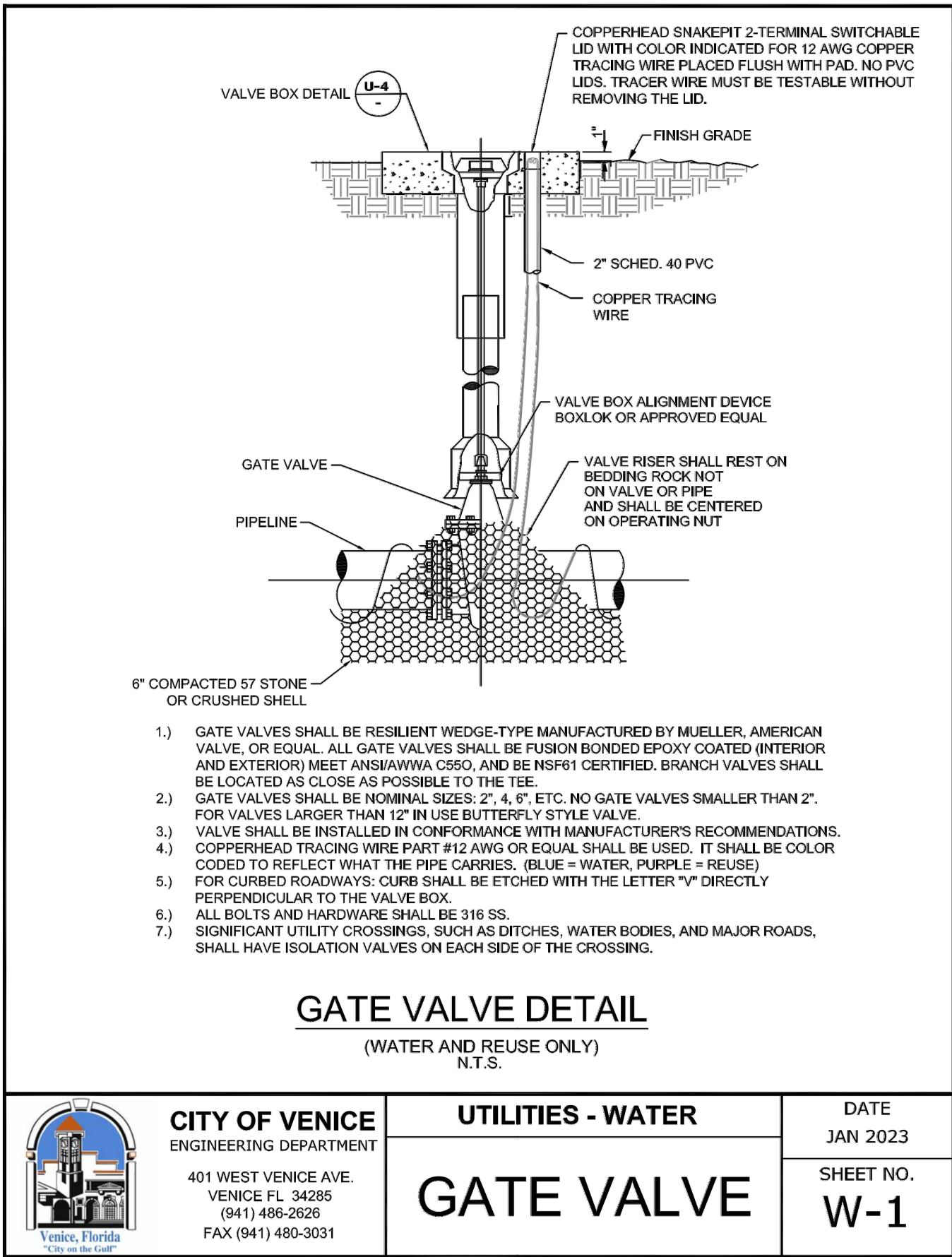
MINIMUM LENGTH (FT) OF WATER OR REUSE MAIN TO BE RESTRAINED ON EACH SIDE OF FITTING									
FITTING	PIPE SIZE (INCHES)								
	4	6	8	10	12	16	18	20	24
90 BEND: H	23	33	43	51	60	76	83	90	104
45 BEND: H	10	14	18	21	25	31	34	37	43
VU	6	8	11	13	16	20	22	24	28
VD	22	30	40	48	56	72	80	87	102
22.5 BEND: H	5	7	8	10	12	15	17	18	21
VU	3	4	5	6	7	10	11	12	14
VD	10	15	19	23	27	35	38	42	49
11.25 BEND: H	2	3	4	5	6	7	8	9	10
VALVES/PLUGS	52	73	96	115	136	174	193	211	246

- 1) FOR TIE OR REDUCER FITTINGS SUBMIT RESTRAINED JOINT LENGTH CALCULATIONS TO CITY ENGINEER FOR REVIEW AND APPROVAL, USING THE ASSUMPTIONS LISTED ABOVE.
- 2) RESTRAINED JOINT LENGTH FOR TIE AND REUSE MAINS BASED ON TEST PRESSURE OF 150 PSI. RESTRAINED JOINT LENGTH FOR REDUCER FITTINGS BASED ON TEST PRESSURE OF 100 PSI. CALCULATIONS WERE MADE USING EBAY-IR SOFTWARE (AVAILABLE AT WWW.EBAY.COM) AND THE FOLLOWING ASSUMPTIONS: GRANULAR MATERIAL (GM) SOIL TYPE, TRENCH TYPE 3, BURY DEPTH OF 3 FT, AND SAFETY FACTOR OF 2 TO 1. IF FIELD CONDITIONS DIFFER FROM ABOVE ASSUMPTIONS, FURNISH RECALCULATED JOINT LENGTHS TO THE CITY ENGINEER FOR REVIEW AND APPROVAL.
- 3) RESTRAINED JOINT SHALL BE USED ON ALL JOINTS FROM ANY MAIN TYPE TO ANY FIBER HYDRANT ASSEMBLY.
- 4) THRUST BLOCKS WILL NOT BE ACCEPTED, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
- 5) ALL HARDWARE SHALL BE 316 SS.

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VENICE FL 34285
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DATE	JAN 2023
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CONTRACTOR TO VERIFY ALL
EXISTING CONDITIONS PRIOR TO
THE START OF CONSTRUCTION



CONTRACTOR TO VERIFY ALL
EXISTING CONDITIONS PRIOR TO
THE START OF CONSTRUCTION

NO.	REVISIONS	DATE	BY
3	REVISED PER CITY COMMENTS	9/13/23	JRE
2	REVISED PER CITY	6/22/23	JRR
1	REVISED PER CITY	3/30/23	SLG

SEWER NOTES

GENERAL:

- * ALL NEW AND RELOCATED SEWER LINES SHALL BE LOCATED AT LEAST TEN (10') FEET HORIZONTALLY FROM ALL WATER MAINS/LINES AND FIVE (5') FEET FROM STORM SEWERS, FORCE MAINS, AND RECLAIMED WATER LINES. ALL DISTANCES ARE MEASURED FROM OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE.
- * NEW OR RELOCATED SEWER LINES THAT CROSS ANY WATER MAINS/LINES, STORM SEWERS, FORCE MAINS, OR RECLAIMED WATER LINES SHALL CROSS BELOW SUCH LINE SO THAT A MINIMUM SEPARATION OF 18 INCHES IS MAINTAINED BETWEEN THE OUTSIDE EDGE OF PIPE TO THE OUTSIDE EDGE OF PIPE. CROSSINGS WHERE SUCH DISTANCES CANNOT BE MAINTAINED SHALL BE IN ACCORDANCE WITH DETAILS PROVIDED IN THE CONSTRUCTION PLANS. CROSSINGS WILL BE MADE TO CENTER ONE FULL PIPE LENGTH OF THE SEWER LINE OVER THE PROPOSED CROSSING.
- * THE CONTRACTOR SHALL COMPLY WITH THE FLORIDA TRENCH AND SAFETY ACT.
- * ALL MATERIALS USED TO CONSTRUCT THE SEWER SYSTEM SHALL BE NEW AND MANUFACTURED IN THE U.S.A. BY AN APPROVED, RELIABLE, AND DEFENDABLE COMPANY.
- * THE CONTRACTOR SHALL COMPLY WITH THE COUNTY WATER, WASTEWATER, AND REUSE SYSTEM CODE.
- * THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A LIST OF ALL MATERIALS, SPECIFICATIONS, AND MANUFACTURERS.
- * ALL CONCRETE USED FOR THE CONSTRUCTION OF THE WASTEWATER COLLECTION SYSTEM SHALL BE MACHINE MIXED AND POURED IN PLACE.
- * ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO EXISTING CONDITIONS, OR BETTER, TO THE SATISFACTION OF THE OWNER.
- * ANY CONCRETE DISTURBED SHALL BE SAWCUT TO PROVIDE A CLEAN EDGE.
- * THE CONTRACTOR SHALL VERIFY ALL AFFECTED EXISTING UTILITIES AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER.
- * ALL UTILITY CROSSINGS WITHIN THE RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH COUNTY RIGHT-OF-WAY USE PERMIT SPECIFICATIONS.
- * CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE START OF ANY CONSTRUCTION. THE CONTRACTOR SHALL BE LIABLE FOR ANY EXPENSE RESULTING FROM DAMAGE TO SAME. ANY CONFLICTS WITH EXISTING UTILITIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AS SOON AS POSSIBLE.

MATERIALS:

- * ALL PVC SEWER PIPE AND FITTINGS SHALL BE MANUFACTURED BY THE SAME COMPANY.
- * ALL DIP SEWER PIPE AND FITTINGS SHALL BE MANUFACTURED BY THE SAME COMPANY.
- * ALL MANHOLES AND WETNELLS SHALL BE MANUFACTURED BY THE SAME COMPANY.
- * MANHOLES WITH INFILTRATION PROBLEMS WILL BE REQUIRED TO BE REMOVED, RESEALED, AND REPLACED. GROUTING AND/OR GEL IS NOT ACCEPTABLE FOR REPAIRING/STOPPING LEAKS.
- * ALL FORCE MAIN FITTINGS SHALL BE 45 DEGREES OR LESS.
- * PVC GRAVITY SEWER PIPE SIX (6") INCH THROUGH TWELVE (12) INCH DIAMETER SHALL HAVE A MINIMUM SDR OF 26 AND CONFORM TO ASTM D-3034 (MOST RECENT REVISION) COLOR CODED GREEN.
- * PVC SEWAGE FORCE MAINS SHALL BE AWWA C-900, DR-18 PRESSURE CLASS 150 COLOR CODED GREEN (FOR SEWAGE FORCE MAIN)

TESTING:

- * ACCEPTANCE OF THE WASTEWATER COLLECTION SYSTEM/FINAL INSPECTION.
- * ALL COUNTY CODE REQUIREMENTS SHALL BE MET IN ADDITION TO THE FOLLOWING ITEMS:

INFILTRATION TEST:

- * THE GRAVITY SEWER SYSTEM WILL BE AIR TESTED. A WRITTEN REPORT IS REQUIRED FOR EACH LINE BETWEEN MANHOLES WHICH ARE TO BE NUMERICALLY IDENTIFIED.

DEFLECTION TEST:

- * THE ROAD BASE (INCLUDING SOIL CEMENT) SHALL BE CONSTRUCTED TO COMPLETION BEFORE A TEST FOR DEFLECTION OF THE GRAVITY MAIN IS CONSIDERED VALID AND ACCEPTABLE. AN EIGHT (8") INCH GRAVITY LINE MANDREL SHALL HAVE AN O.D. MEASUREMENT OF 7.04 INCHES OR AS SPECIFIED BY COUNTY CODE. THE MANDREL WILL BE PULLED THRU THE GRAVITY LINE BY HAND OR BY USE OF A ONE HUNDRED (100 LB) POUND OR LESS BREAK CORD BETWEEN THE MANDREL AND PULLER.

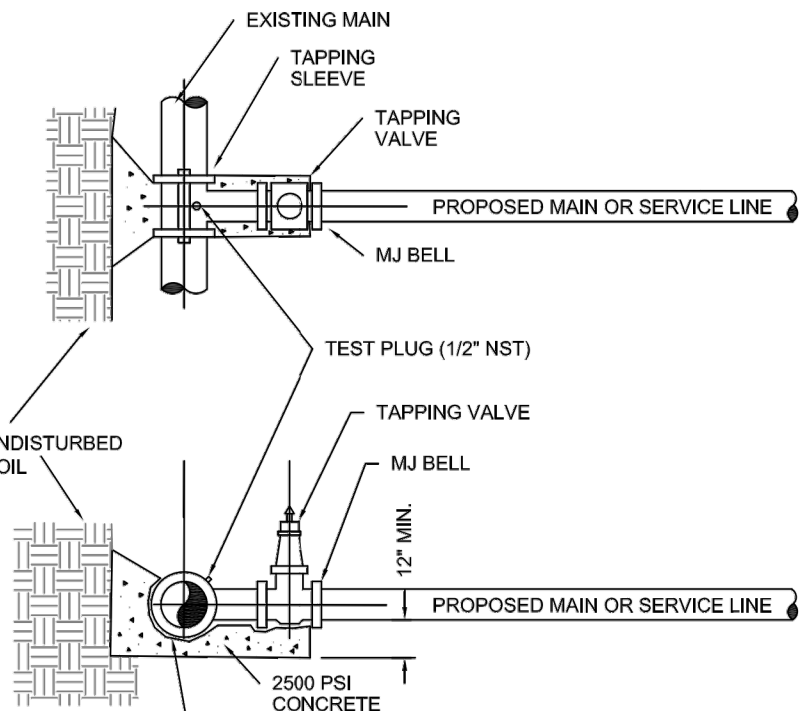
TELEVISION:

- * THE DEFLECTION TEST WILL PASS BEFORE A TELEVISION TEST OF THE GRAVITY LINES IS MADE.
- * DISPLAYED ON THE SCREEN WILL BE THE FOLLOWING INFORMATION: COMPANY PERFORMING THE TEST DEVELOPMENT/PROJECT AND LOCATION DATE AND YEAR MANHOLE NUMBERS FROM AND TO ARE TO BE IDENTIFIED ENGINEERING FIRM PIPE SIZE AND TYPE CONTINUOUS RUNNING FOOTAGE DISPLAYED/RECORDED * BEFORE TELEVISION, WATER WILL BE ADDED TO THE UPSTREAM MANHOLE UNTIL IT FLOWS TO THE DOWNSTREAM MANHOLE. THE CAMERA SHALL BE PULLED UPSTREAM/AGAINST THE FLOW.
- * ANY GRAVITY LINES WITH DIPS SHOWING WATER DEPTH OVER ONE HALF (1/2') INCH SHALL REQUIRE CORRECTIVE REPAIR.
- * ANY GRAVITY LINE REQUIRING REPAIR SHALL BE RETESTED FOR INFILTRATION, DEFLECTION, AND TELEVISION.

WRITTEN REPORT:

- * THE TELEVISION WRITTEN REPORT WILL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING: ALL SERVICES SHALL BE IDENTIFIED AS RIGHT OR LEFT AND THE EXACT LOCATION IN FEET. NORTH ARROW MUST BE SHOWN. LIST MANHOLE NUMBERS. NOTE THE SIZE OF GRAVITY MAIN. NOTE THE GRAVITY LINE MATERIAL. NOTE THE DIRECTION OF CAMERA TRAVEL. NOTE THE DIRECTION OF FLOW. NOTE LOCATION OF ALL DIPS AND DEPTH OF WATER IN INCHES. NOTE THE CLEANLINESS OF THE LINE. NOTE ALL MATERIAL TRANSITIONS AND THE EXACT LOCATION IN FEET. NOTE ALL BAD JOINTS, CRACKS, FISH MOUTH RUBBERS, LEAKS, ETC. AND THEIR EXACT LOCATION IN FEET. NOTE THE OVERALL LENGTH OF THE LINE TELEVIEWED. * COPIES OF HANDWRITTEN REPORTS MUST BE FURNISHED TO THE ENGINEER AND COUNTY UTILITY DEPARTMENT ON THE DATE OF THE TESTING.

- * A ONE YEAR "WALK-THRU" IS REQUIRED TO INSPECT THE CONSTRUCTED FACILITIES IN ORDER TO DETERMINE DAMAGES, MATERIAL FAILURE, AND LASTING QUALITY OF WORKMANSHIP.



- 1.) EXISTING MAIN SHALL NOT BE TAPPED UNTIL THE ASSEMBLED SLEEVE AND VALVE ARE TESTED IN PLACE AT A MINIMUM OF 150 PSI FOR THIRTY MINUTES.
- 2.) UPON SUCCESSFUL TAPPING SLEEVE PRESSURE TEST (NOTE 1), THE THRUST BLOCK SHALL BE POURED AND HAVE SET FOR 24 HRS PRIOR TO TAPPING. READY-MADE THRUST BLOCKS CAN BE USED WITH CITY APPROVAL.
- 3.) STAINLESS STEEL TAPPING SLEEVE SHALL BE FORD. ALL HARDWARE SHALL BE 316 STAINLESS STEEL. GASKETS SHALL BE VIRGIN SBR COMPOUND.
- 4.) GATE VALVES SHALL BE RESILIENT WEDGE TYPE MANUFACTURED BY MUELLER OR AMERICAN VALVE. ALL GATE VALVES SHALL BE FUSION BONDED EPOXY COATED (INTERIOR AND EXTERIOR) MEET ANSI/AWWA C550, AND BE NSF61 CERTIFIED.
- 5.) TAPPING SLEEVES MAY ONLY BE USED WHEN THE TAP DIAMETER IS AT LEAST ONE PIPE SIZE SMALLER THAN THE DIAMETER OF THE MAIN BEING TAPPED. TRANSMISSION MAINS SHALL NOT BE TAPPED WITH A TAP LESS THAN 4" IN DIAMETER.
- 6.) TAPPING/SERVICE SHOULDS MAY BE USED FOR TAPS UP TO AND INCLUDING 2" DIAMETER.
- 7.) ALL TAPS SHALL BE WHOLE NUMBER NOMINAL SIZES, INCLUDING 1", 2", 4", ETC.
- 8.) VALVE BOX ALIGNMENT DEVICE SHALL BE INSTALLED IN ACCORDANCE WITH W-1 ON ALL VALVES ABOVE 1".

TAPPING SLEEVE & VALVE DETAIL

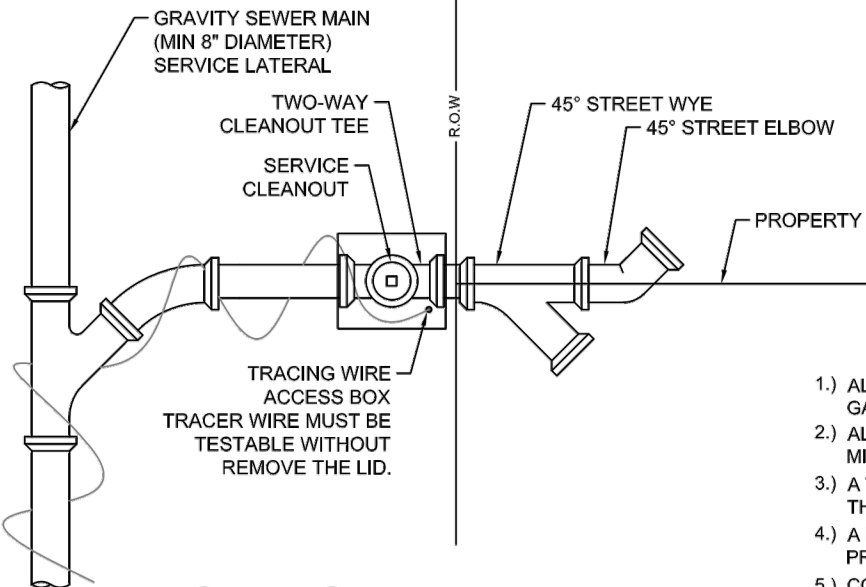
N.T.S.



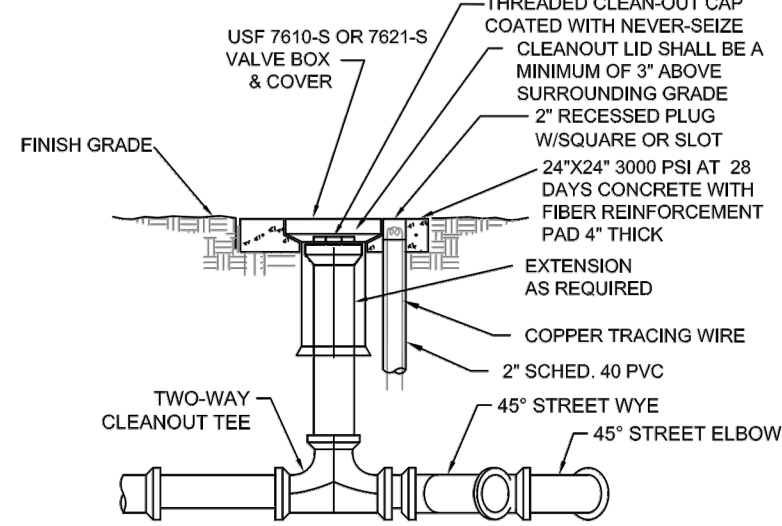
CITY OF VENICE
ENGINEERING DEPARTMENT
401 WEST VENICE AVE.
VENICE FL 34285
(941) 486-2626
FAX (941) 480-3031

UTILITIES - GENERAL
TAPPING SLEEVE & VALVE

DATE
JAN 2023
SHEET NO.
U-3



CLEANOUT PLAN



CLEANOUT PROFILE

SANITARY SEWER SERVICE & CLEANOUT DETAIL

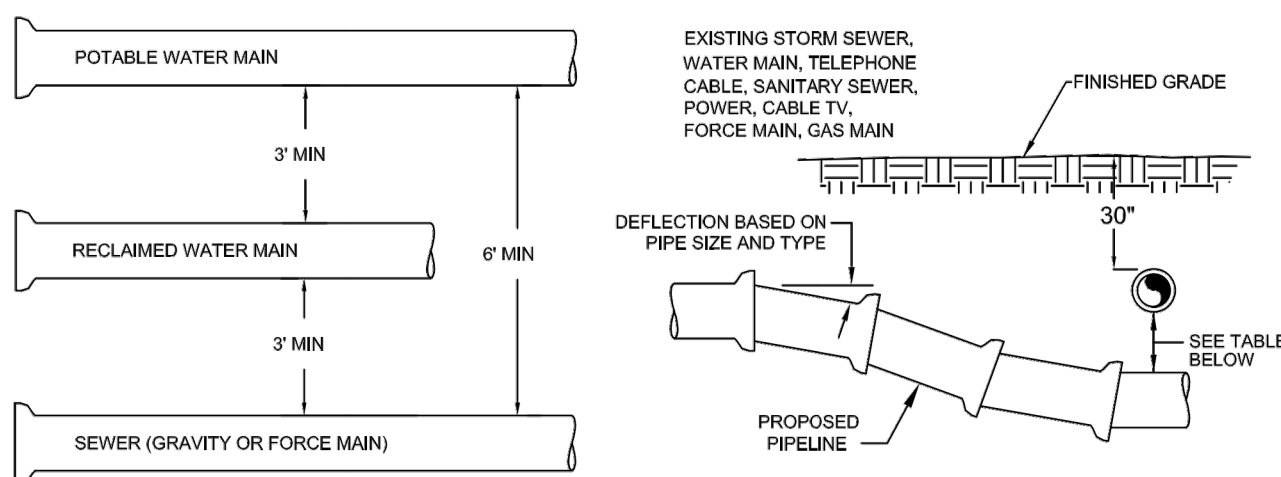
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UTILITIES - SEWER
SEWER SERVICE & CLEANOUT

DATE
JAN 2023
SHEET NO.
S-4



MINIMUM HORIZONTAL SEPARATION DISTANCES (FT)

(OUTSIDE OF PIPELINE TO OUTSIDE OF PIPELINE)

	WATER MAIN	FORCE MAIN	SANITARY SERVICE	REUSE MAIN	STORM WATER	OTHER UTILITIES (TELEPHONE, CABLE, ETC.)
WATER MAIN	3	6	6	3	3	3
FORCE MAIN	6	3	3	3	3	3
SANITARY SEWER	6	3	3	3	3	3
REUSE MAIN	3	3	3	3	3	3
STORM WATER	3	3	3	3	3	3
OTHER UTILITIES	3	3	3	3	3	3

MINIMUM VERTICAL SEPARATION DISTANCES (IN)

(OUTSIDE OF PIPELINE TO OUTSIDE OF PIPELINE)

	WATER MAIN	FORCE MAIN	SANITARY SERVICE	REUSE MAIN	STORM WATER	OTHER UTILITIES (TELEPHONE, CABLE, ETC.)
WATER MAIN	6	12	12	6	6	6
FORCE MAIN	12	6	6	6	6	6
SANITARY SEWER	12	6	6	6	6	6
REUSE MAIN	6	6	6	6	6	6
STORM WATER	6	6	6	6	6	6
OTHER UTILITIES	6	6	6	6	6	6

- 1.) MAXIMUM JOINT DEFLECTION SHALL BE 90% OF MANUFACTURER'S RECOMMENDATION.
- 2.) WHEREVER POSSIBLE, THE LAYOUT OF UTILITIES SHALL PLACE SANITARY SEWER AND SEWER FORCE MAINS BELOW RECLAIMED MAINS AND BELOW WATER MAINS, RESPECTIVELY. WHERE WATER MAINS ARE ABOVE GRAVITY SEWERS OR WASTEWATER FORCE MAINS, A VERTICAL CLEARANCE OF 6 INCHES IS ACCEPTABLE. STORM SHALL BE PLACED BELOW BOTH WATER AND SEWER WHERE POSSIBLE.
- 3.) ACCEPTABLE VARIANCES:
 - A. WHERE HORIZONTAL SEPARATION CANNOT BE MAINTAINED, C900 DR14 PVC PIPE SHALL BE USED FOR ONE OF THE PIPELINES.
 - B. WHERE VERTICAL CLEARANCE CANNOT BE MAINTAINED, ONE FULL LENGTH OF DR14 C900 PIPE SHALL BE INSTALLED CENTERED AT THE POINT OF CROSSING.
 - C. WHERE 36" MINIMUM DEPTH OF COVER CANNOT BE MAINTAINED, SPECIAL PROTECTION OR PIPE MATERIAL UPGRADE MAY BE REQUIRED, AT THE DISCRETION OF THE UTILITY DEPARTMENT.
- 4.) NO UTILITY PIPE SHALL PASS THROUGH, OR COME IN CONTACT WITH ANY PART OF A SANITARY MANHOLE OR STORMWATER STRUCTURE WITHOUT APPROVAL FROM THE UTILITIES DIRECTOR OR CITY ENGINEER.

UTILITY CONFLICT & SEPARATION DETAIL

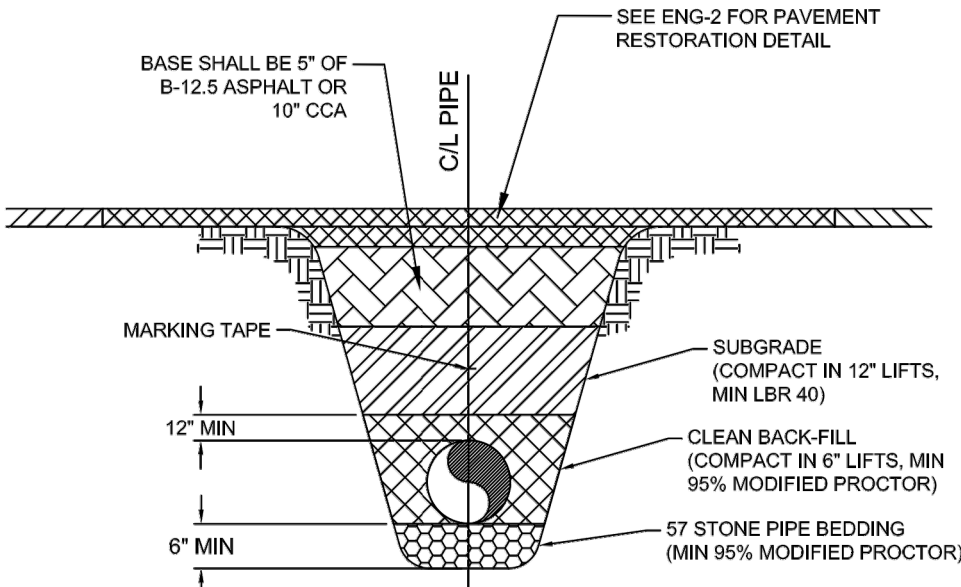
N.T.S.



CITY OF VENICE
ENGINEERING DEPARTMENT
401 WEST VENICE AVE.
VENICE FL 34285
(941) 486-2626
FAX (941) 480-3031

UTILITIES - GENERAL
UTILITY CONFLICTS & SEPARATIONS

DATE
JAN 2023
SHEET NO.
U-5



SEWER PIPE TRENCH DETAIL

N.T.S.



CITY OF VENICE
ENGINEERING DEPARTMENT
401 WEST VENICE AVE.
VENICE FL 34285
(941) 486-2626
FAX (941) 480-3031

UTILITIES - SEWER
SEWER PIPE TRENCH

DATE
JAN 2023
SHEET NO.
S-6

CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF CONSTRUCTION

CLIENT: POOL DEVELOPMENT, LLC

PROJECT: REGIONAL FLEX FACILITY

SHEET: SEWER DETAILS

3	REVISED PER CITY COMMENTS	9/13/23	JRR		
2	REVISED PER CITY	6/22/23	JRR		
1	REVISED PER CITY	3/30/23	SLG		
	REVISIONS			DATE	BY

JOHN F. CAVOLI, P.E. FL LICENSE NO.: 48692

SCALE

N.T.S.

JOB NO.

SCPCOI

SHEET

18

PLAN

- WARNING LIGHT/ANNUNCIATOR
- AUXILIARY POWER HOOKUP
- STAINLESS STEEL CONTROL PANEL
- 4" VENT WITH S.S. BUG SCREEN
- S.S. CABLE HOLDER
- CONDUIT, PUMP POWER CABLES / LEVEL CONTROL CABLES
- 6" CAULK HUB (SHIPPED LOOSE)
- 6" SERVICE
- INV. +0.58
- FIBERGLASS BASIN
- S.S. LIFTING CABLE
- S.S. LIFTING BAIL
- BOTTOM ELEV. = 3.06
- CONTROL PANEL
- HOSE BIB
- 5' DIMENSIONS
- 4' DIMENSIONS
- 3' DIMENSIONS
- 2" DRAIN LINE
- AUXILIARY PUMP ACCESS
- 1/4" THK. ALUMINUM CHECKERPLATE COVER WITH LOCKING HASP (TIN 300 1ba/SF LOADING)
- RIM ELEV. = 15.30
- GRADE ELEV. = 15.20
- 2" GATE VALVE
- ELEVATION = 12.20
- 2" PVC (SCH. 40) FORCE MAIN
- 4"x4"x8' CONC. COLLAR
- 2" CHECK VALVE
- 2" UNION
- 2" PVC DRAIN PIPE W/ RUNNING TRAP 1/2 INCH/FT. SLOPE
- 1-1/4"x2" RED.
- SCH. 80 PVC DISCHARGE PIPE
- LEVEL CONTROLS
- GROUT FILLET HOPPER BOTTOM (MIN. SLOPE 1:1)
- 5' DIMENSIONS

SECTION

PUMP SPECIFICATIONS:

- PUMPS REQUIRED
- MANUFACTURER
- MODEL NUMBER
- PUMP DISCHARGE CAPACITY EACH (GPM)
- TOTAL HEAD (FEET)
- IMPELLER DIAMETER
- MOTOR HP REQUIREMENT
- SPEED (RPM)
- ELECTRICAL

NOTES:

- PUMPS SHALL BE ALTERNATE AUTOMATICALLY OPERATED.
- PUMPS SHALL BE SEAL FAILURE SENSITIVE.

ELEVATIONS:

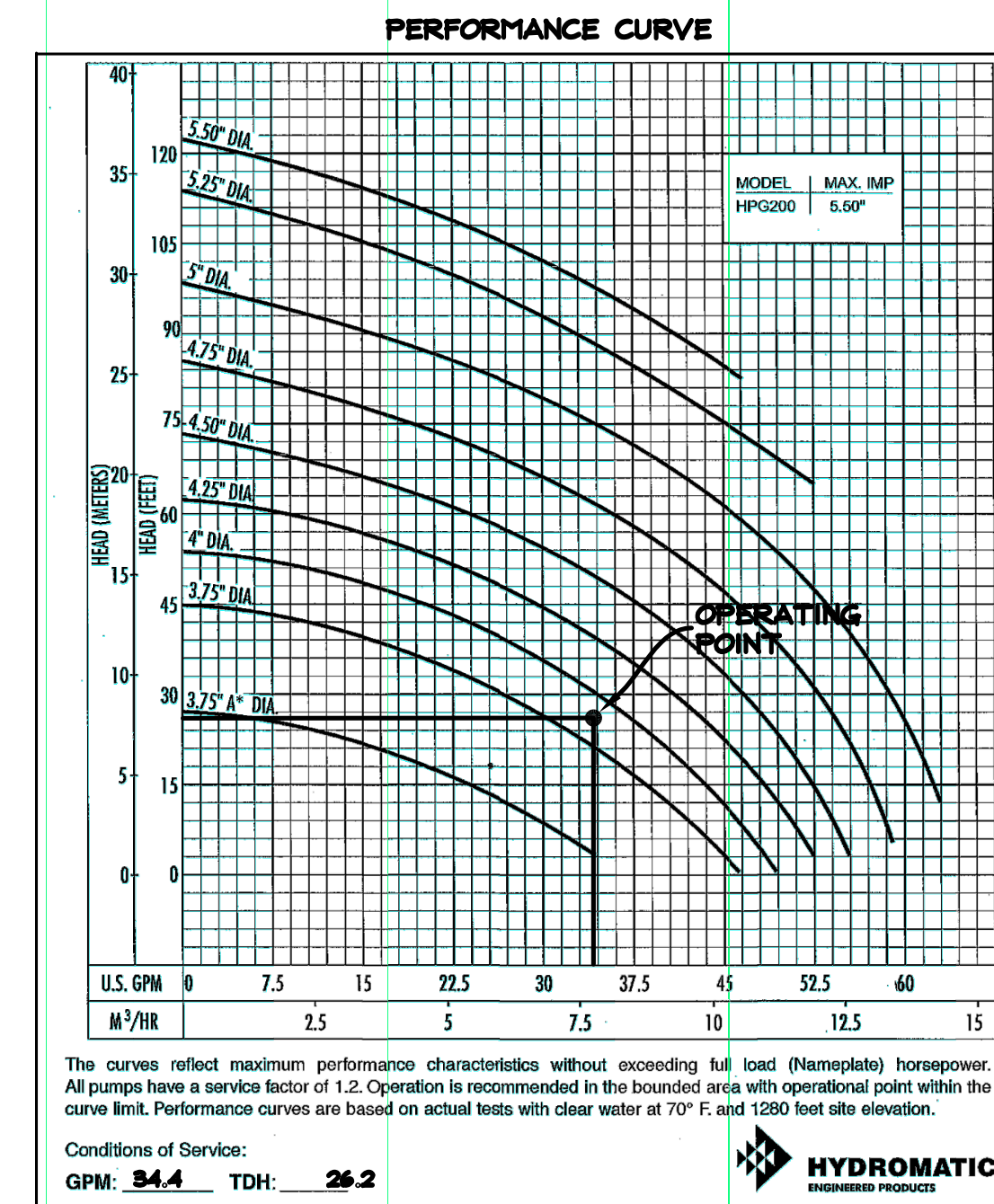
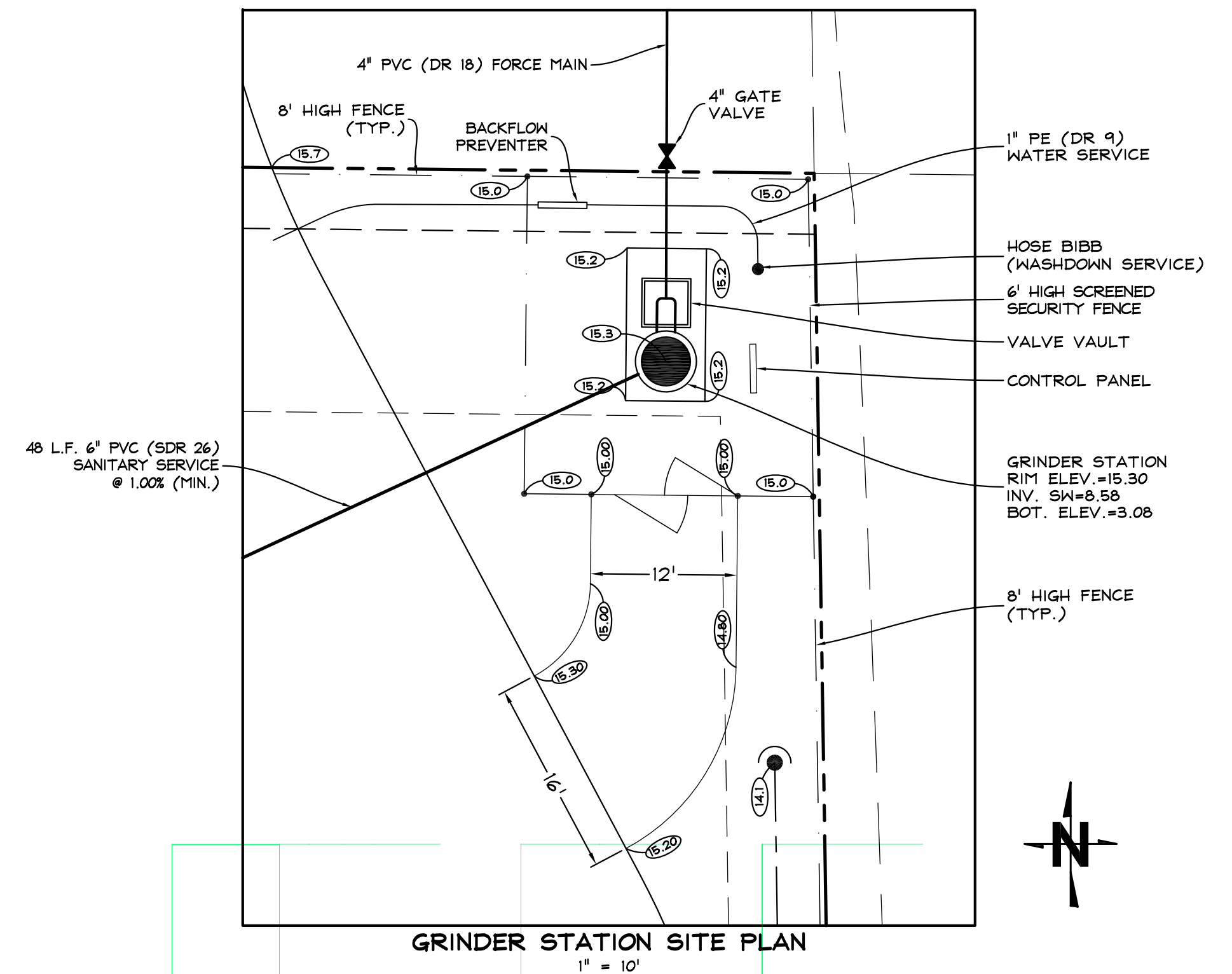
- ALARM BOTH PUMPS ON
- LEAD PUMP ON
- BOTH PUMPS OFF

SEWER GRINDER STATION
N.T.S.

PUMP SPECIFICATIONS	
PUMPS REQUIRED	2
MANUFACTURER	HYDRAMATIC
MODEL NUMBER	HPG200
PUMP DISCHARGE	1-1/4"
CAPACITY EACH (GPM)	22.4
TOTAL HEAD (FEET)	46.9
INPELLER DIAMETER	4.25"
MOTOR HP REQUIRED	2
SPEED (RPM)	3450
ELECTRICAL	1 or 3 ph

NOTES:

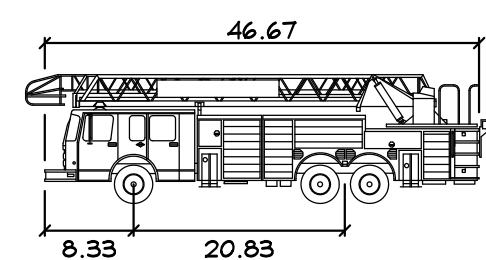
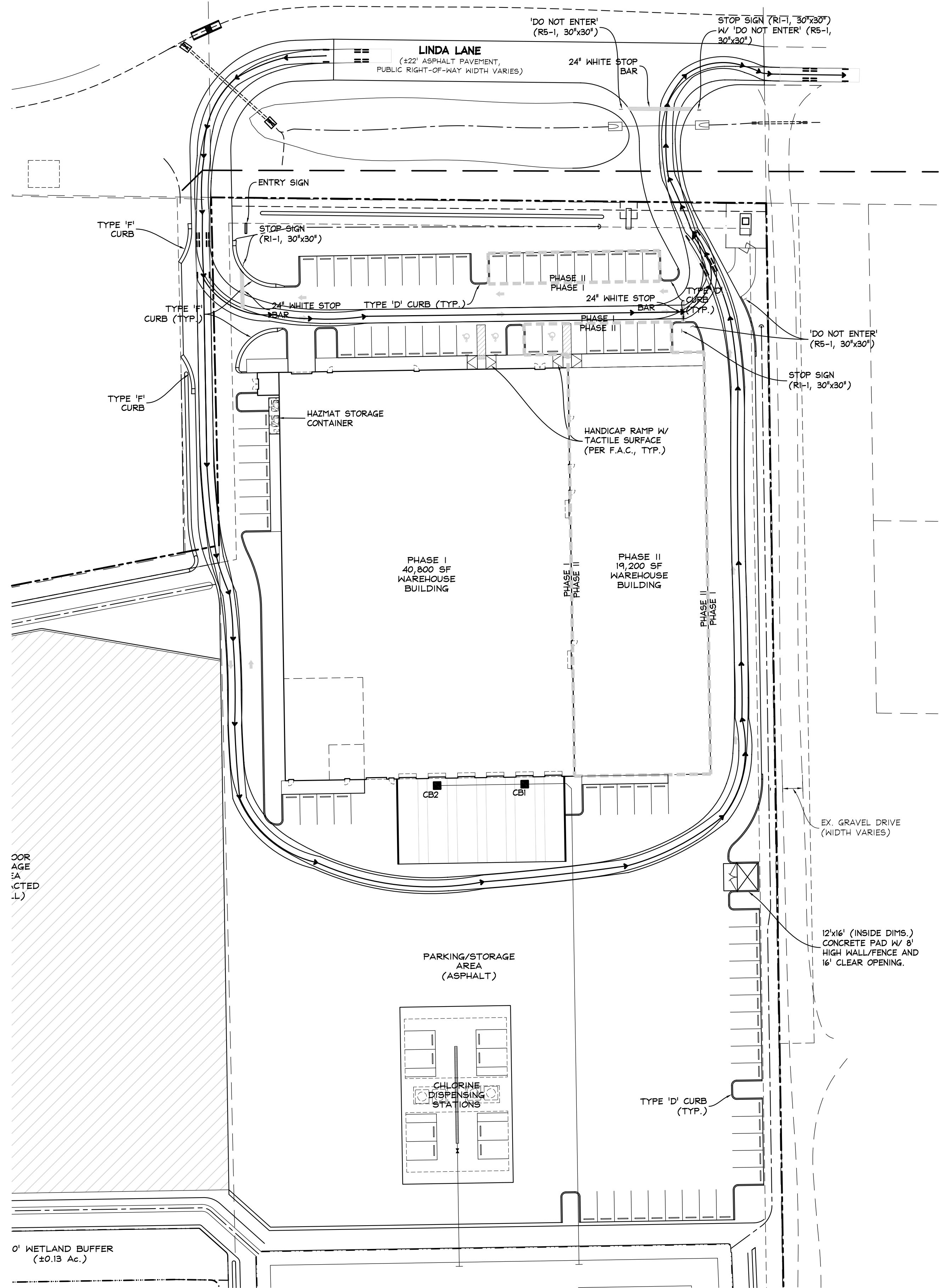
1. PUMPS SHALL BE SET TO ALTERNATE AUTOMATICALLY.
2. PUMPS SHALL BE EQUIPPED WITH SEAL FAILURE SENSORS AND HEAT SENSORS.



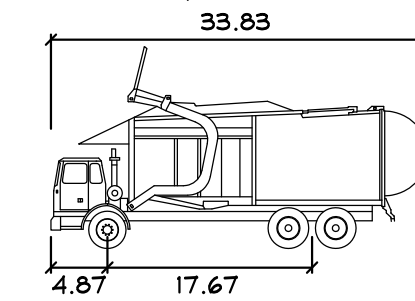
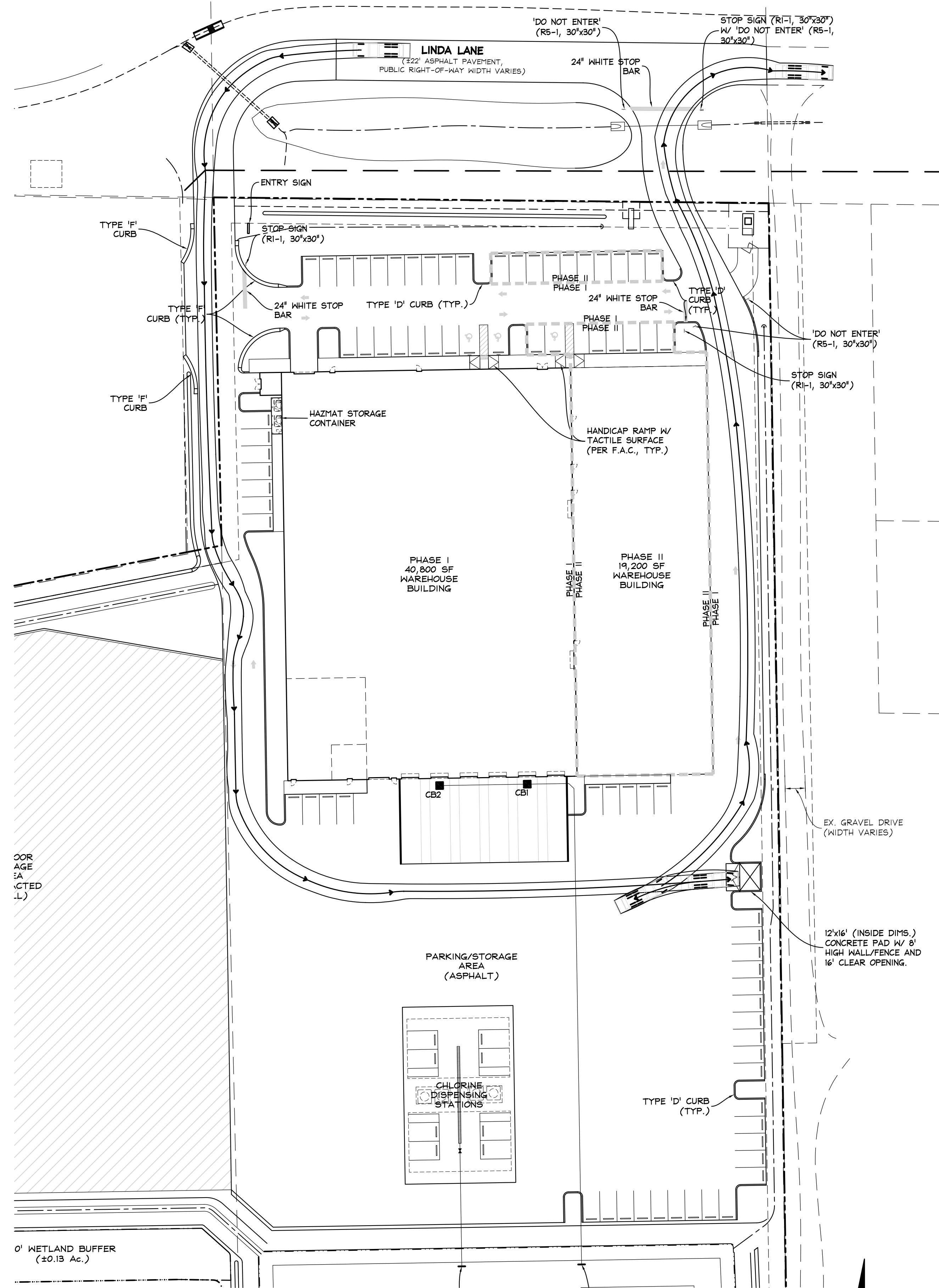
PUMP DATA AND DESIGN CHARACTERISTICS	
NUMBER OF PUMPS	2
DESIGN CAPACITY PER PUMP, G.P.M.	34.4 GPM
TOTAL DYNAMIC HEAD, FT.	26.2 TDH
MIN. EFF. AT DESIGN CAPACITY %	N/A
HORSEPOWER PER PUMP, H.P.	2 HP
SHUT-OFF HEAD, FT.	65 FT
MAX. SIZE SOLIDS, IN.	3 IN
DISCHARGE SIZE, IN.	1 1/4 IN
PUMP MANUF. & MODEL NUMBER	HYDROMATIC HPG200
IMPELLER DIAMETER, IN.	4 IN
PUMP R.P.M.	3,450 RPM
ELECT. SVC- VOLTAGE & PHASE	480 / 3PHASE
FORCE MAIN- LENGTH, DIAMETER & MATERIAL	122 FEET, 2" PVC
FORCE MAIN DISCHARGE ELEV. & HIGHEST EL.	20.60
AVERAGE DAILY FLOW, GPD	3,388 GPD

CONTRACTOR TO VERIFY ALL
EXISTING CONDITIONS PRIOR TO
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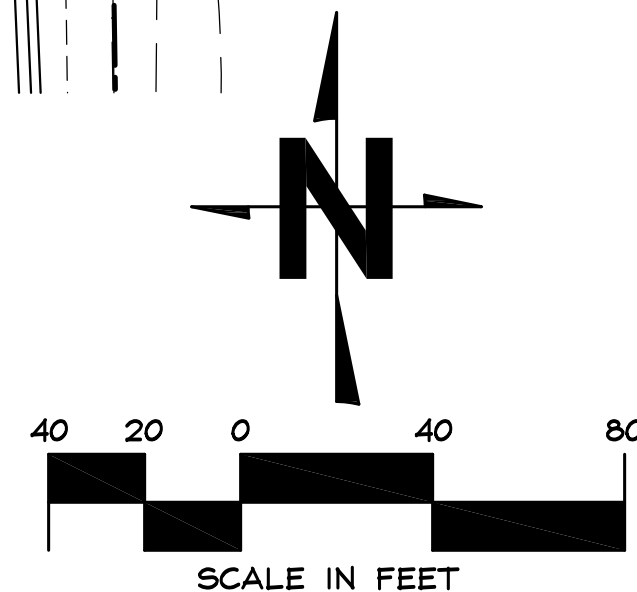
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Sarasota Fire Rescue	
Width	8.00
Track	8.00
Lock to Lock Time	6.00
Steering Angle	50.00



Wayne Titan Frontload	
Width	4.87
Track	17.67
Lock to Lock Time	6.0
Steering Angle	45.0



CONTRACTOR TO VERIFY ALL
EXISTING CONDITIONS PRIOR TO
THE START OF CONSTRUCTION

NO.	REVISIONS	DATE	BY
1	REVISED PER CITY	6/22/23	JRR