


CONSTRUCTION PLANS
FOR

THE GLADES

Edgewater Estates



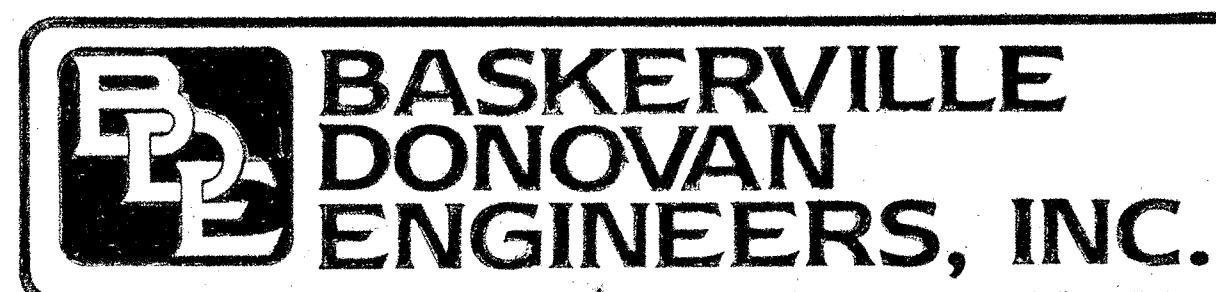
GOLF COURSE & RESIDENTIAL

PANAMA CITY BEACH, FLORIDA

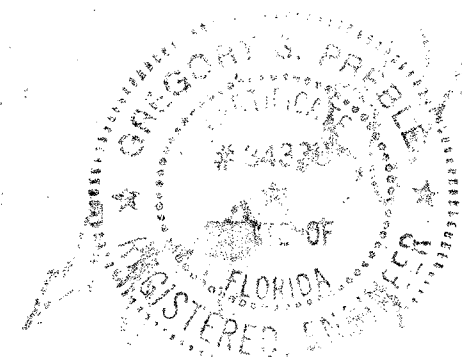
DEVELOPER

WESLEY L. BURNHAM

PREPARED BY:

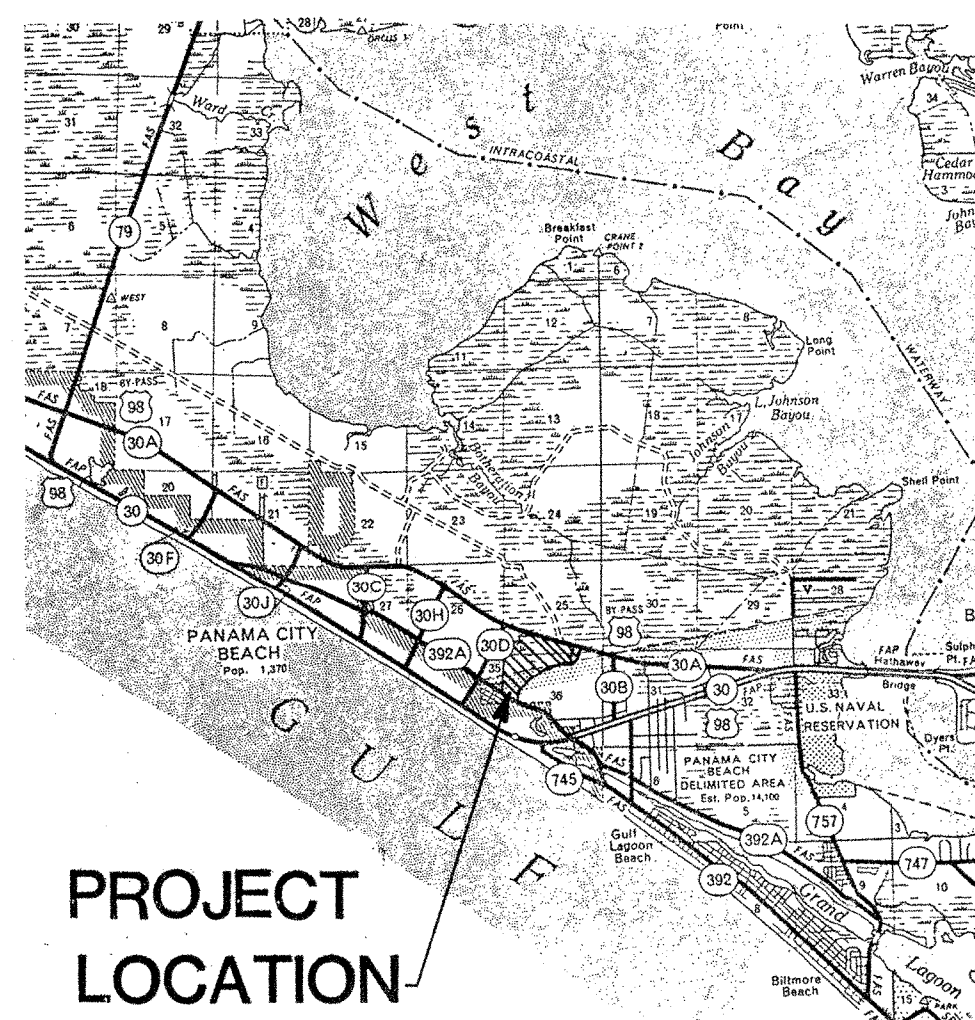


PROJECT # 89802



LIST OF DRAWINGS

	PG.
SITE DEVELOPMENT PLAN	1
SITE DRAINAGE PLAN	2
WATER DISTRIBUTION LAYOUT	3-5
SANITARY SEWER LAYOUT	3-5
PLAN & PROFILE	6-11
WATER AND SANITARY SEWER DETAIL	12
LIFT STATION DETAIL	13
MISCELLANEOUS DETAILS	14


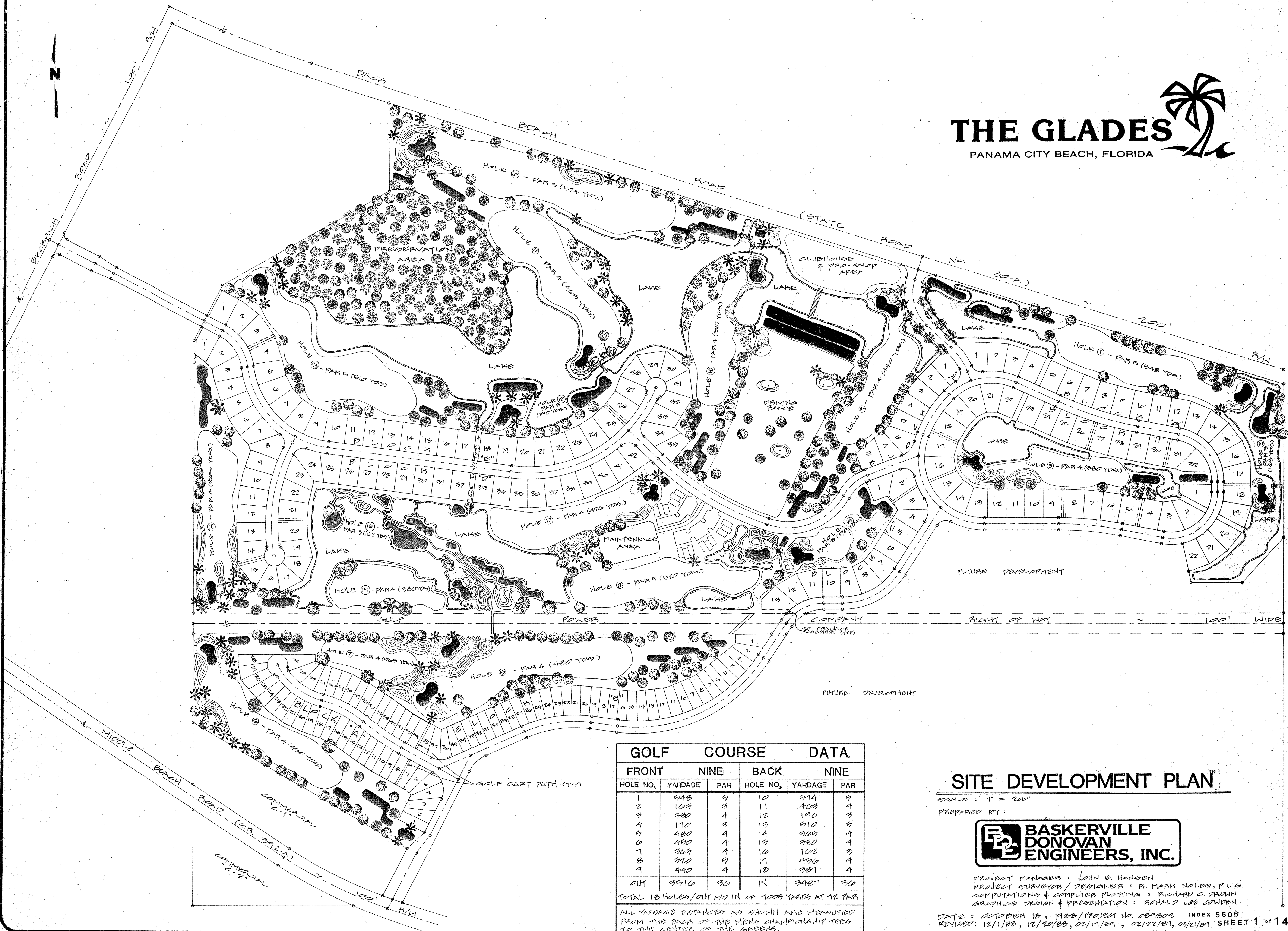


PROJECT
LOCATION

VICINITY MAP

THE GLADES

PANAMA CITY BEACH, FLORIDA

GOLF COURSE DATA					
FRONT			BACK		
HOLE NO.	YARDAGE	PAR	HOLE NO.	YARDAGE	PAR
1	548	5	10	474	5
2	109	3	11	409	4
3	380	4	12	190	3
4	170	3	13	510	5
5	480	4	14	309	4
6	490	4	15	380	4
7	309	4	16	162	3
8	410	4	17	490	4
9	440	4	18	387	4
OUT	3910	30	IN	3487	30

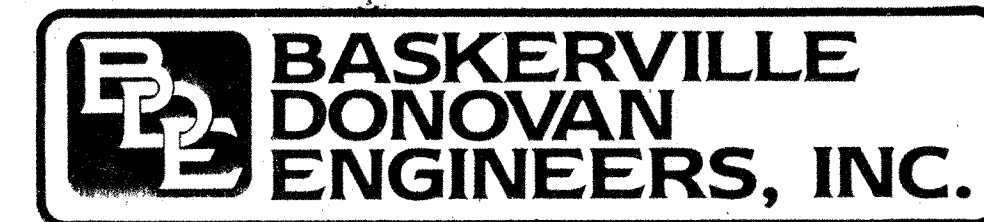
TOTAL 18 HOLES/OUT AND IN OF 1009 YARDS AT 72 PAR

ALL YARDAGE DISTANCES AS SHOWN ARE MEASURED FROM THE BACK OF THE MENS CHAMPIONSHIP TEES TO THE CENTER OF THE GREENS.

SITE DEVELOPMENT PLAN

SCALE: 1" = 200'

PREPARED BY:

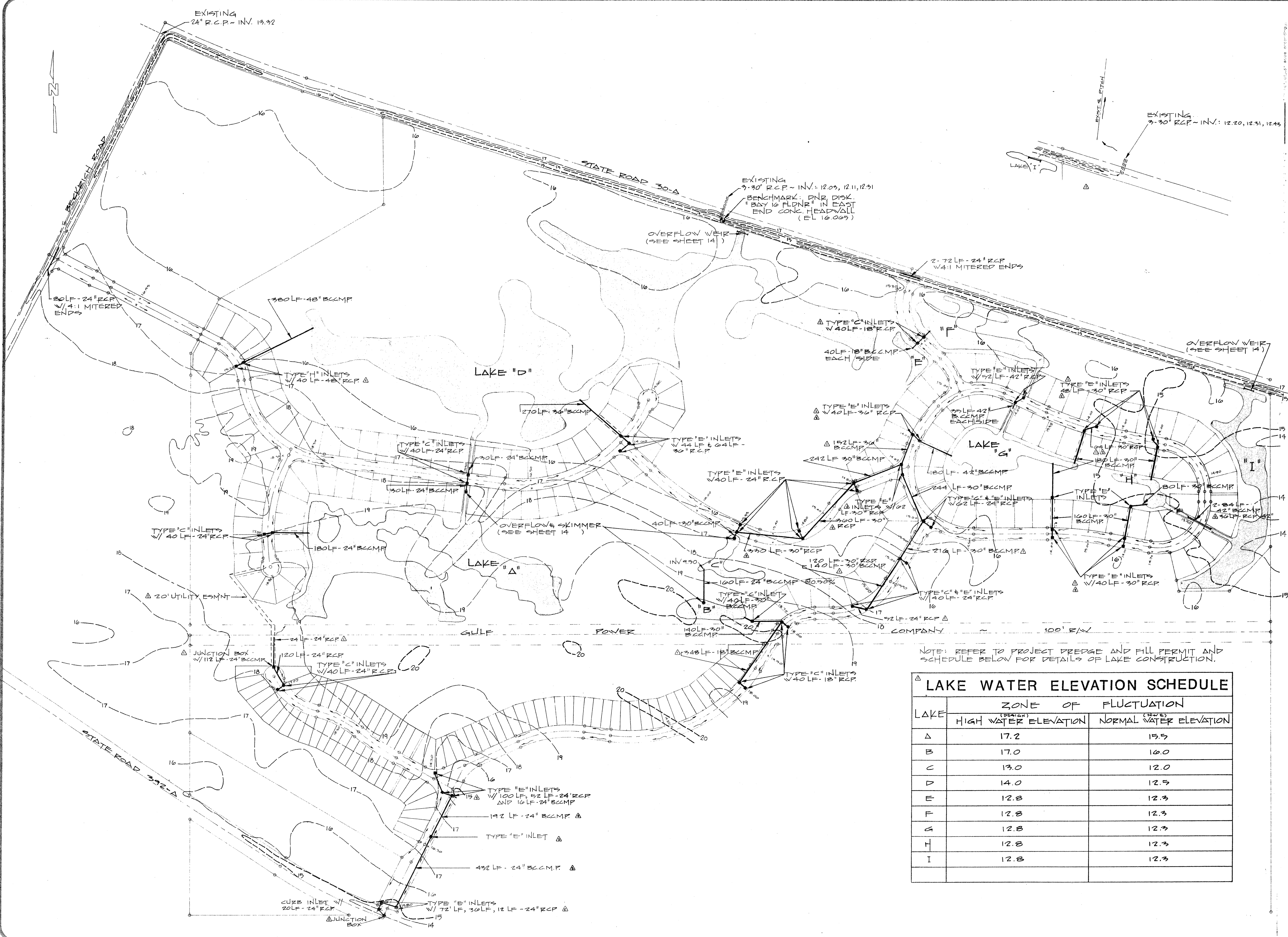


PROJECT MANAGER: JOHN E. HANSEN
 PROJECT SURVEYOR / DESIGNER: B. MARK NOLES, P.L.S.
 COMPUTATIONS & COMPUTER PLOTTING: RICHARD C. DROWN
 GRAPHICS DESIGN & PRESENTATION: RONALD JOE GORDEN

DATE: OCTOBER 13, 1988 / PROJECT NO. 08A801 INDEX 5606
 REVISED: 12/1/88, 12/10/88, 01/17/89, 02/22/89, 03/21/89 SHEET 1 of 14

3
42
35
8
22
32
13
54
28
234

QUALITY CONTROL



NOTE: REFER TO PROJECT DREDGE AND FILL PERMIT AND SCHEDULE BELOW FOR DETAILS OF LAKE CONSTRUCTION.

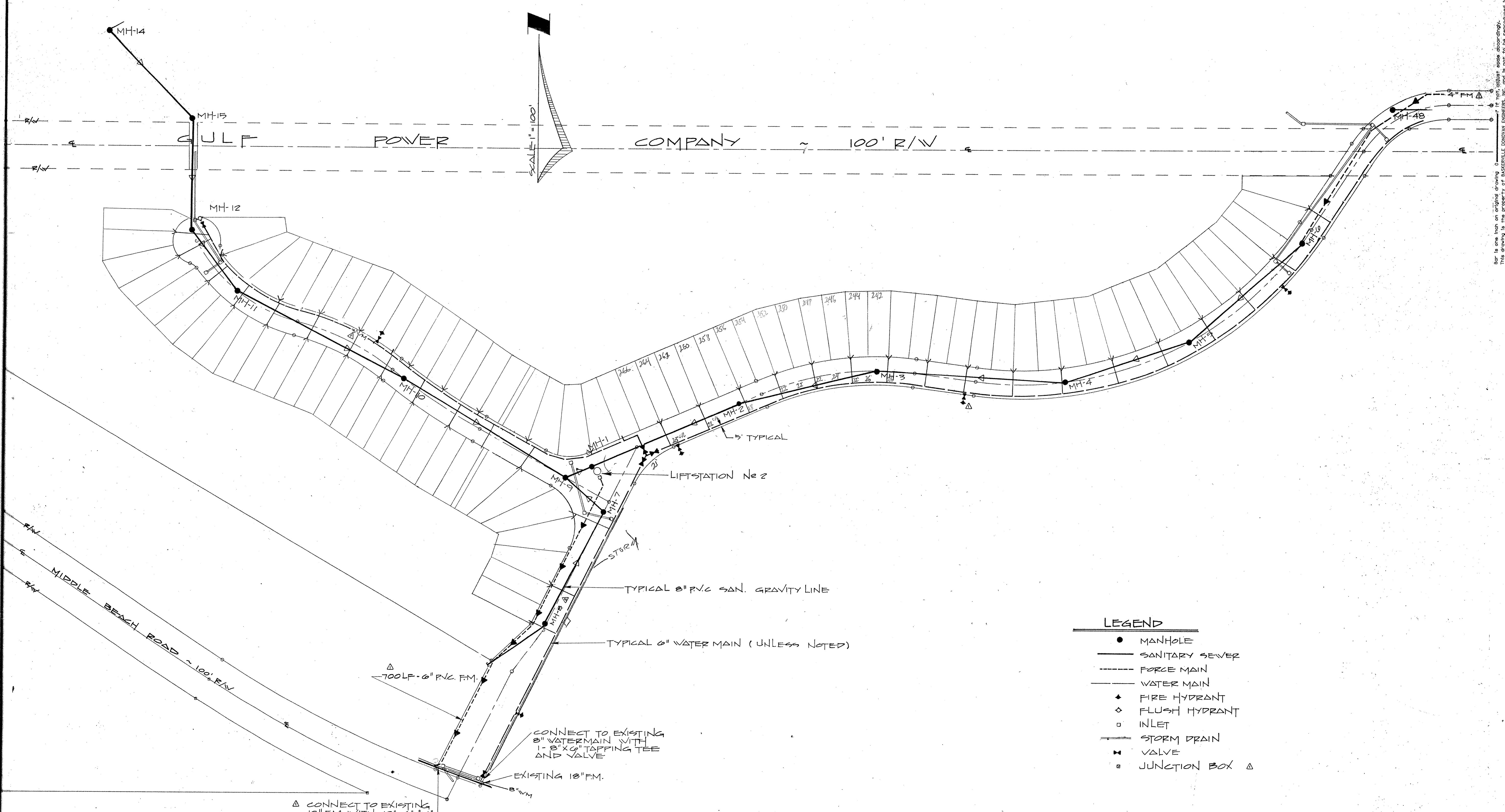
LAKE	ZONE OF FLUCTUATION	
	HIGH WATER ELEVATION	NORMAL WATER ELEVATION
A	17.2	15.5
B	17.0	16.0
C	13.0	12.0
D	14.0	12.5
E	12.8	12.3
F	12.8	12.3
G	12.8	12.3
H	12.8	12.3
I	12.8	12.3

NO.	DATE	REVISION
1	2/22/89	ADD SCHEDULE, MOVE LOT LINES & INLETS, ADD CHANGE ALL BCCMP UNDER ROAD TO RCP
2	3/21/89	DELETE LAKE "J" ADD DRAINAGE PIPE AND INLET
3	4/20/89	

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 RELEASED FOR CONSTRUCTION
 DATE: 2/13/89
 SCALE: 1" = 200'

SITE DRAINAGE PLAN
EDGEWATER ESTATES
 PANAMA CITY BEACH, FL
 89802
 5608 14

QUALITY CONTROL



- LEGEND**
- MANHOLE
 - SANITARY SEWER
 - FORCE MAIN
 - WATER MAIN
 - ◆ FIRE HYDRANT
 - ◇ FLUSH HYDRANT
 - INLET
 - STORM DRAIN
 - ▲ VALVE
 - ◻ JUNCTION BOX

CONNECT TO EXISTING 18" FM. WITH 18" x 6" x 4" 1/2" 6" CHECK VALVE

700LF. 6" PVC FM.

CONNECT TO EXISTING 8" WATERMAIN WITH 1" 8" x 6" TAPPING TEE AND VALVE

EXISTING 18" FM.

8" WM

SEE NOTE FOR LOCATION OF UTILITIES, SHEET B

NOTE:
CONTRACTOR TO VERIFY LOCATIONS OF UTILITIES IN THE FIELD.

NOTE:
CONTRACTOR SHALL MARK THE LOCATION OF ALL WATER AND SEWER SERVICE STUB-OUTS WITH A LARGE BRIGHTLY PAINTED WOODEN STAKE OR POST AND SHALL REFERENCE THE LOCATION (GIVING THE EXACT DISTANCE TO THE PROPERTY CORNER) ON THE CONTRACTOR SUPPLIED AS-BUILT DRAWINGS.

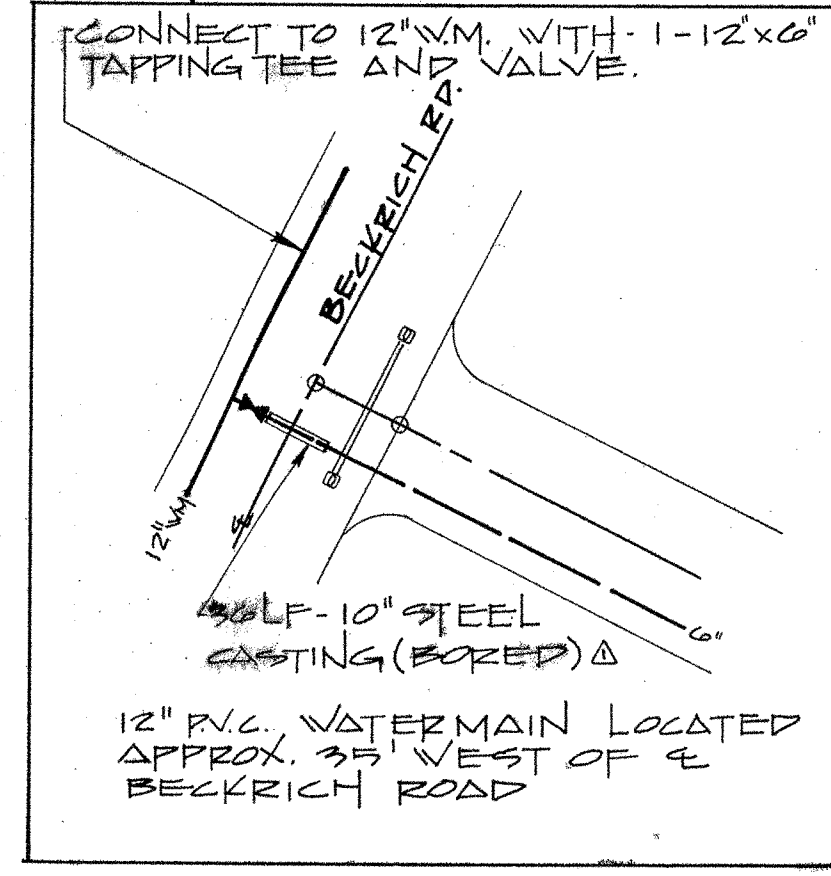
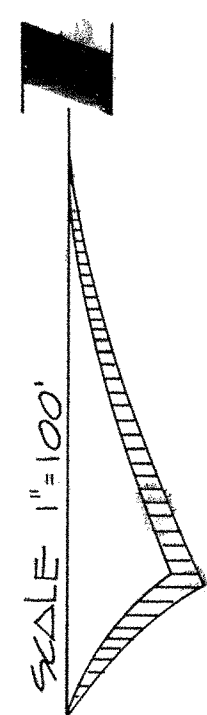
Bar is one inch on original drawing. This drawing is the property of BASKERVILLE DONOVAN ENGINEERS, INC. and is not to be reproduced in whole or in part. It is not to be used on any other project and is to be returned upon request.

PROJECT NO. 89802		NO. 3 OF 14 SHT.	
INDEX 5 6 0 6		14 SHT.	
WATER & SANITARY SEWER PLAN		EDgewater Estates	
BASKERVILLE DONOVAN ENGINEERS, INC.		PANAMA CITY BEACH, FL	
DESIGNED	DRAWN	CHECKED	DATE
SCALE 1" = 100'	RELEASED FOR CONSTRUCTION	DATE	DATE
NO.	DATE	APPR.	REVISION
1	2/22/87		
2	2/21/87		

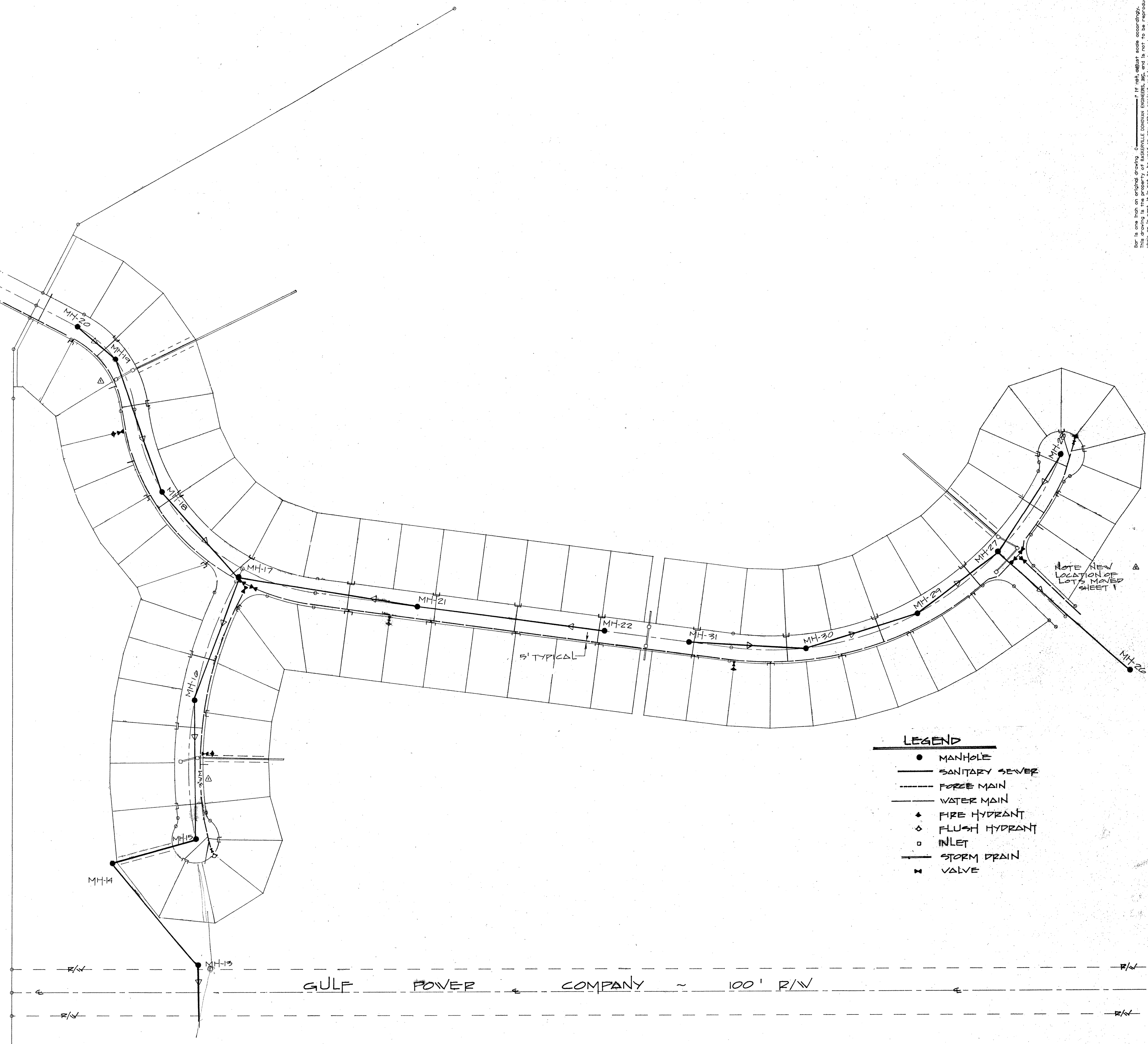
QUALITY CONTROL

OVERLAY IDENTIFICATION
COMPOSITE
OVERLAY
SCREEN

BECKRICH ROAD - 100' R/W



NOTE:
CONTRACTOR TO VERIFY
LOCATIONS OF UTILITIES
IN THE FIELD.



- LEGEND**
- MANHOLE
 - SANITARY SEWER
 - FORCE MAIN
 - WATER MAIN
 - ◆ FIRE HYDRANT
 - ◇ FLUSH HYDRANT
 - INLET
 - STORM DRAIN
 - ⊗ VALVE

GULF POWER COMPANY ~ 100' R/W

Bar is one inch on original drawing. Overall drawing scale is 1" = 100'. If not, adjust scale accordingly. Work or in part, it is not to be used on any other project and is to be returned to the office.

BASKERVILLE DONOVAN ENGINEERS, INC.
 PANAMA CITY BEACH, FL.
 WATER & SANITARY SEWER PLAN
 EDGEWATER ESTATES

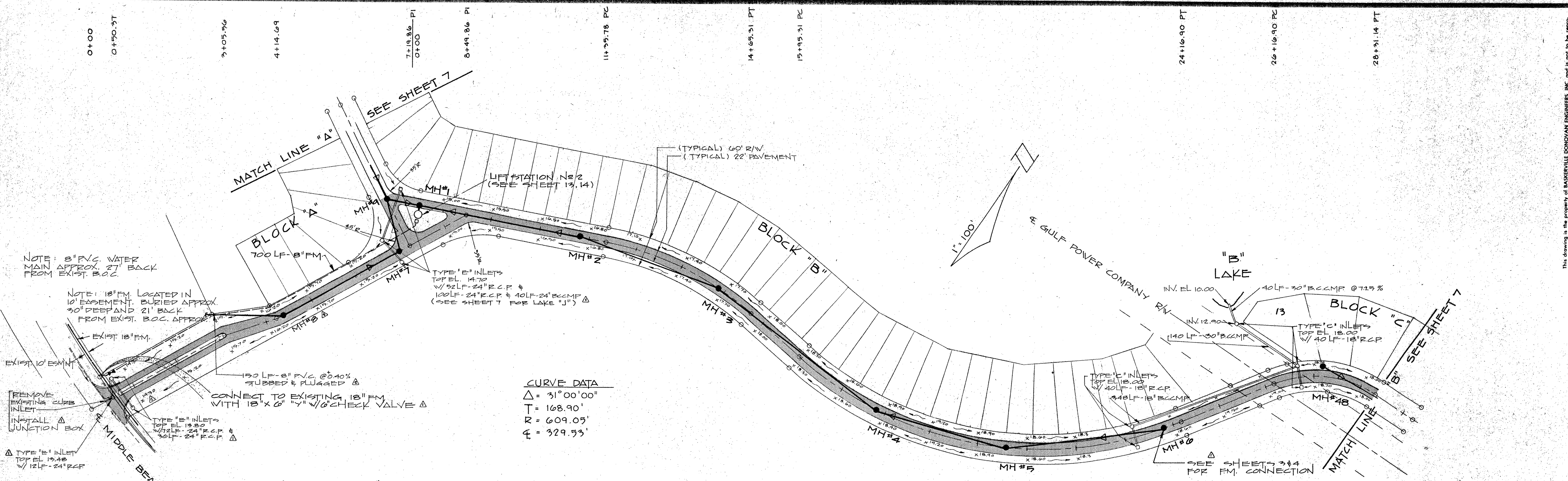
DESIGNED: T.A.E. CHECKED: T.A.E. DATE: 2/13/87
 DRAWN: T.A.E. DATE: 2/13/87
 RELEASED FOR CONSTRUCTION DATE: 2/13/87

NO.	DATE	APPR.
1	2/22/87	
2	3/21/87	

PROJECT NO. 89802 OF 5
 INDEX 5 6 0 8 14 SHT.

PLAN	CHECKED	DATE
NOTE BOOK	ALIGNED	
ST. OF WAY	CHECKED	
NO.		

PROFILE	CHECKED	DATE
NOTE BOOK	MARKS	
S.M.'S. NOTED		
STRUCTURE LOCATIONS	CHECKED	
NO.		



NOTE: 8" PVC WATER MAIN APPROX. 21' BACK FROM EXIST. B.O.C.

NOTE: 18" FM LOCATED IN 10' EASEMENT. BURIED APPROX. 30" DEEP AND 21' BACK FROM EXIST. B.O.C. APPROX.

EXIST. 18" FM

REMOVE EXISTING CURB INLET

INSTALL JUNCTION BOX

CONNECT TO EXISTING 18" FM WITH 18" x 6" 1/2" CHECK VALVE

150 LF 8" PVC @ 0.40% SLOPE & PLUGGED

TYPE 'E' INLETS TOP EL. 14.70 1/2 LF 24" R.C.P. & 100 LF 24" R.C.P. & 40 LF 24" R.C.M.P. (SEE SHEET 7 FOR LAKE "J")

TYPE 'E' INLETS TOP EL. 18.00 1/2 LF 24" R.C.P. & 40 LF 24" R.C.M.P.

TYPE 'E' INLETS TOP EL. 18.00 1/2 LF 24" R.C.P. & 40 LF 24" R.C.M.P.

TYPE 'C' INLETS TOP EL. 18.00 1/2 LF 24" R.C.P. & 40 LF 24" R.C.M.P.

SEE SHEETS 3 & 4 FOR FM CONNECTION

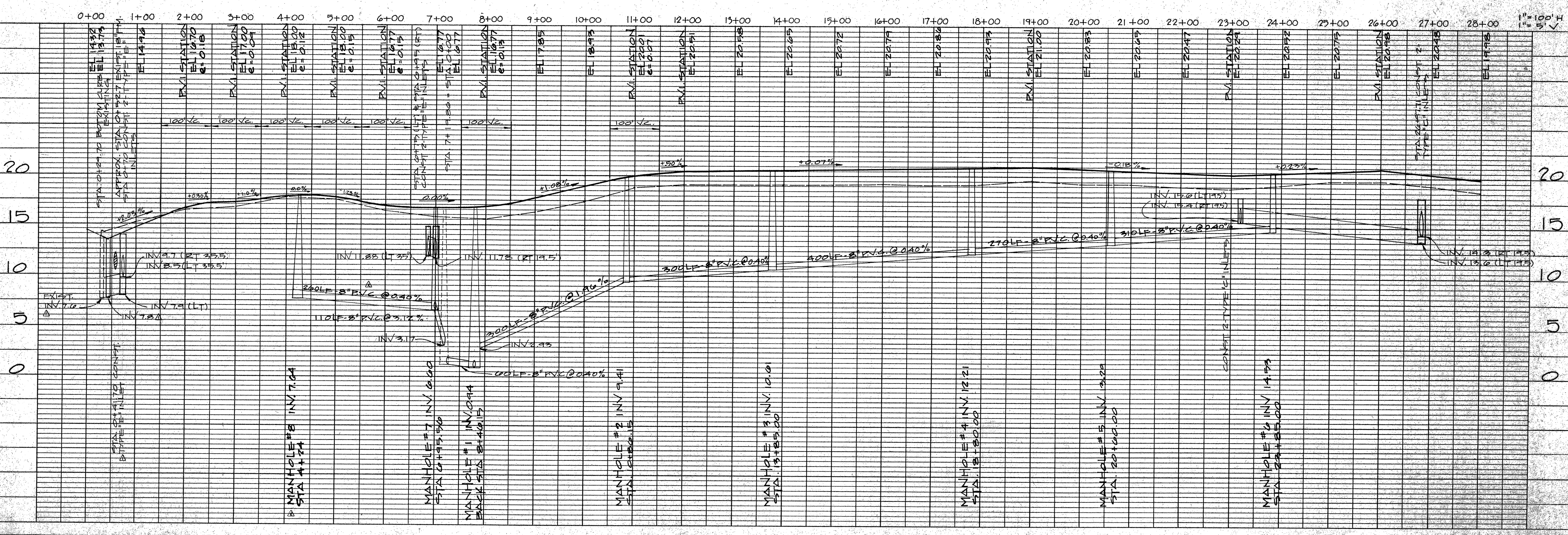
CONTRACTOR TO VERIFY LOCATIONS OF UTILITIES IN THE FIELD

SEE DOT DRIVEWAY CONNECTION PERMIT FOR TURN - DECEL LANES

CURVE DATA
 $\Delta = 31^{\circ}00'00''$
 $T = 168.90'$
 $R = 609.05'$
 $E = 329.53'$

CURVE DATA
 $\Delta = 64^{\circ}30'00''$
 $T = 460.49'$
 $R = 729.83'$
 $E = 821.59'$

CURVE DATA
 $\Delta = 56^{\circ}57'13''$
 $T = 116.91'$
 $R = 215.53'$
 $E = 214.24'$



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NO.	DATE	APPR.	REVISION
1	2/12/89		
2	5/21/89		MOVE MH #8

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 A PROFESSIONAL SERVICE ORGANIZATION
 PENSACOLA • MILTON • DESTIN • PANAMA CITY • DAYTONA BEACH

DESIGNED: T.A.E. CHECKED: B.V.
 DRAWN: T.A.E. DATE: 2/15/89

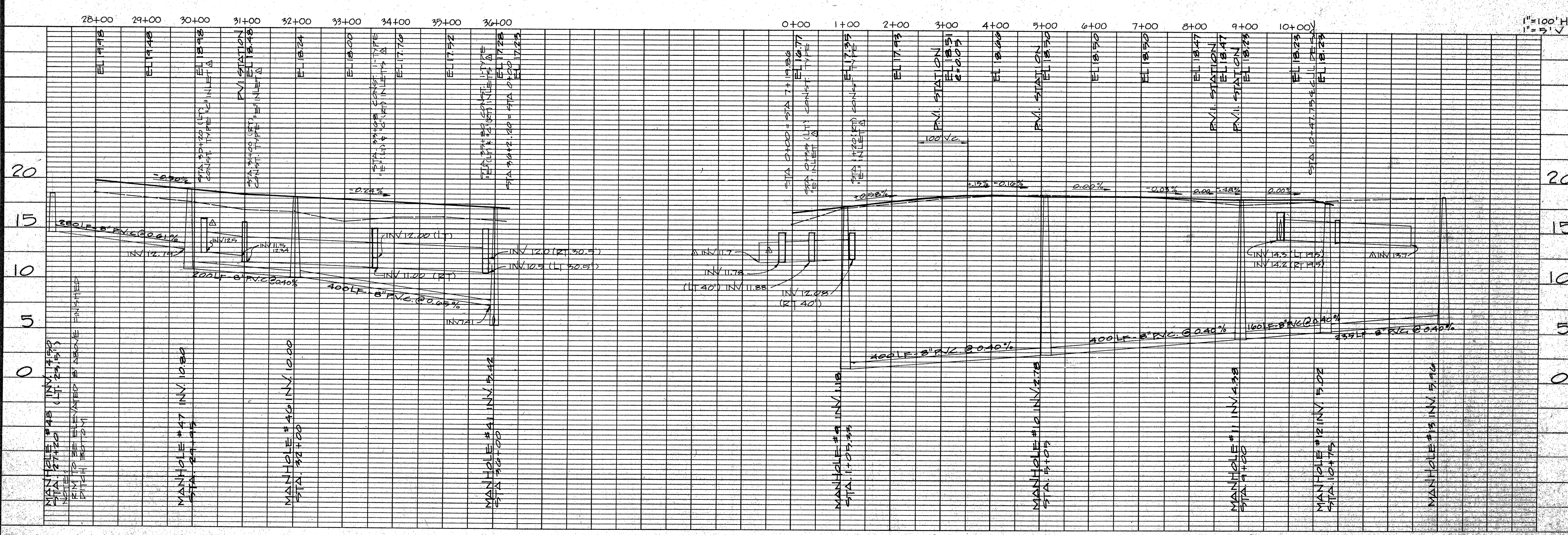
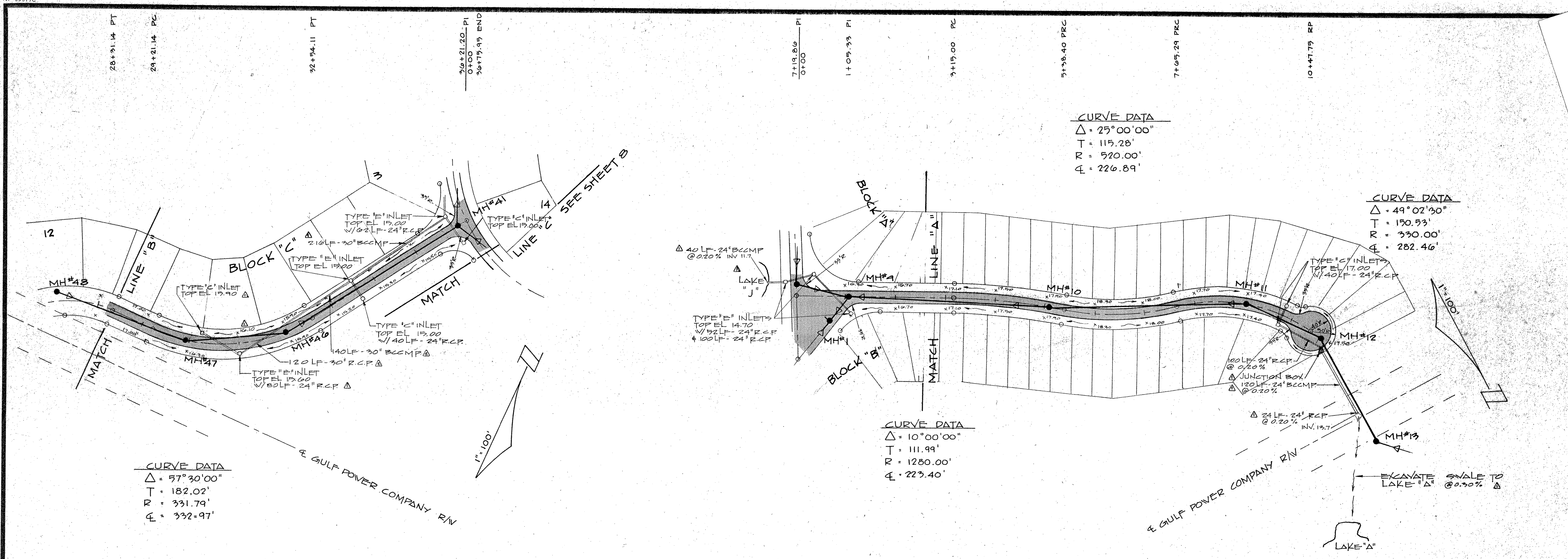
SCALE = 1" = 100'
 RELEASED FOR CONSTRUCTION

PLAN & PROFILE
EDGEWATER ESTATES
 PANAMA CITY BEACH, FL

PROJECT NO. 89802 OF 6
 INDEX 6 OF 14 SHEETS

DATE	BY	REVISION

DATE	BY	REVISION



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 PANAMA CITY BEACH, FL
 PANAMA CITY, FL
 MILTON, FL
 DESTIN, FL

DESIGNED BY: T.A.E.
 CHECKED BY: T.A.E.
 DATE: 2/13/89

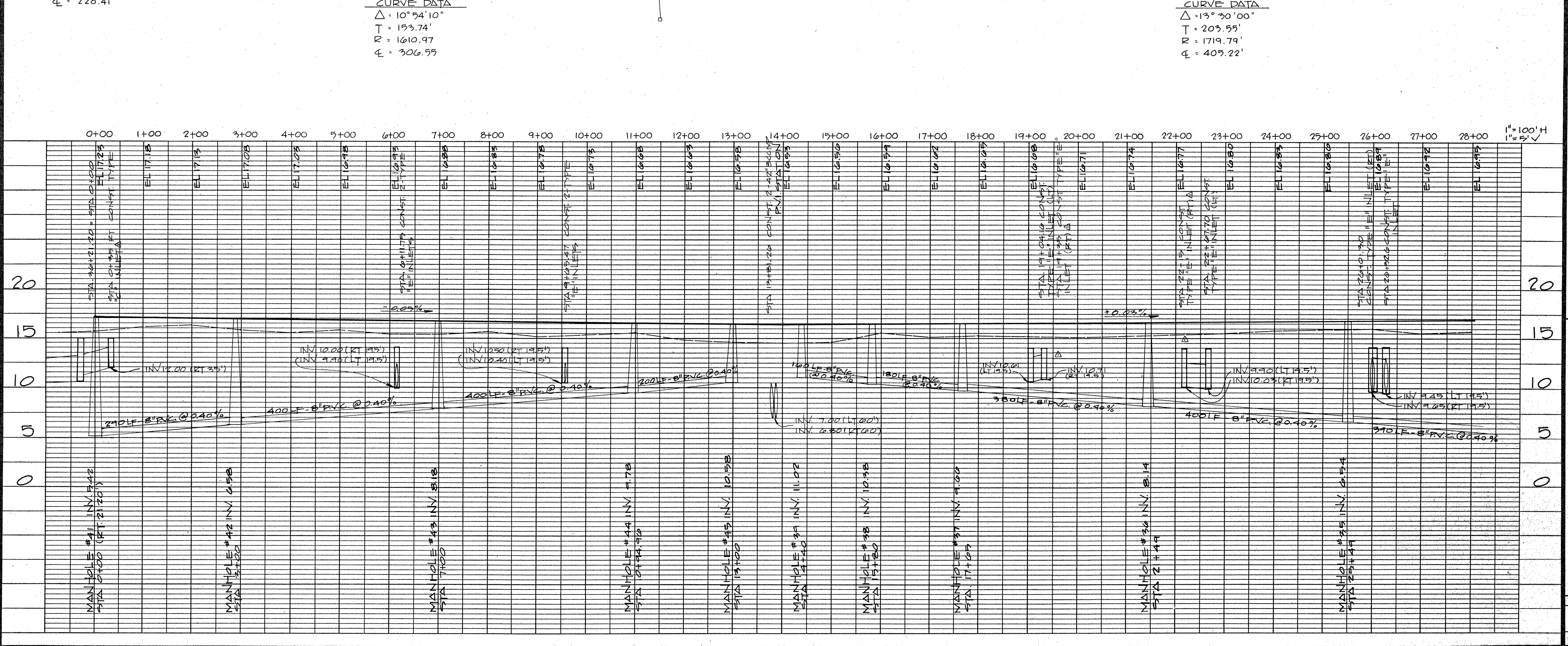
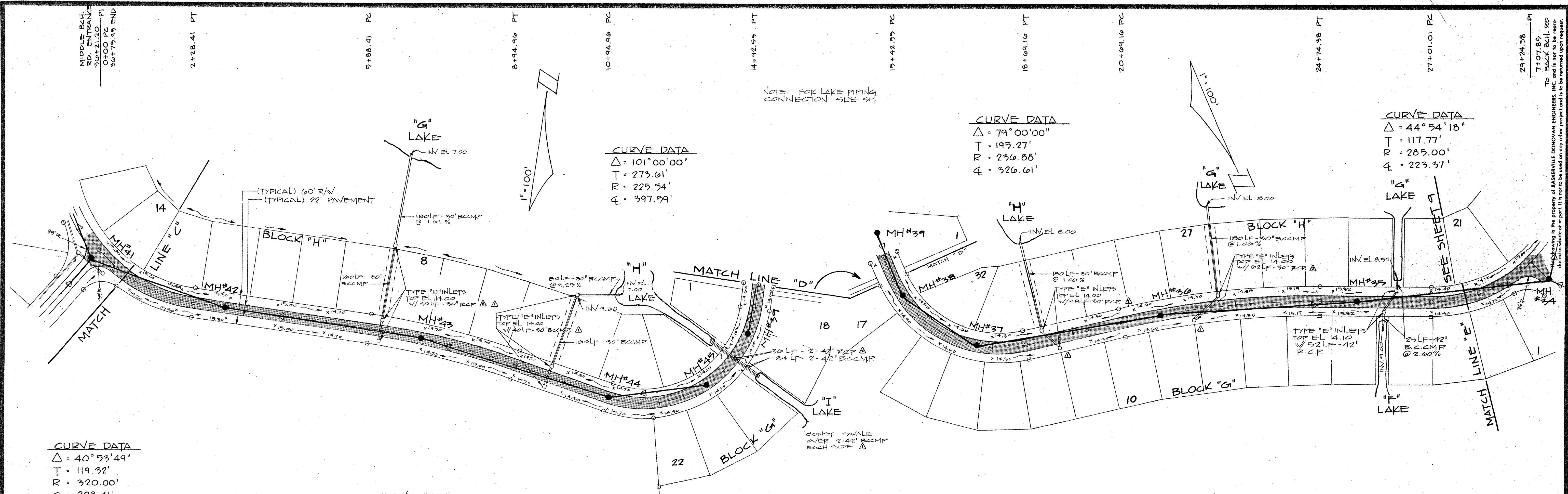
RELEASED FOR CONSTRUCTION BY: _____

PLAN & PROFILE
EDGEWATER ESTATES
 PANAMA CITY BEACH, FL

PROJECT NO. 89802
 SHEET NO. 7 OF 14

DATE	
BY	
SURVEYED	
PLANNED	
NOTE BOOK	
ALIGNED CHECKED	
BY	
NO.	

DATE	
BY	
DRAWN	
GRADE CHECKED	
R. N. H. HOBBS	
STRUCTURE NOTATIONS CHECKED	
NO.	



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PLAN & PROFILE
EDGEWATER ESTATES
 PANAMA CITY BEACH, FL

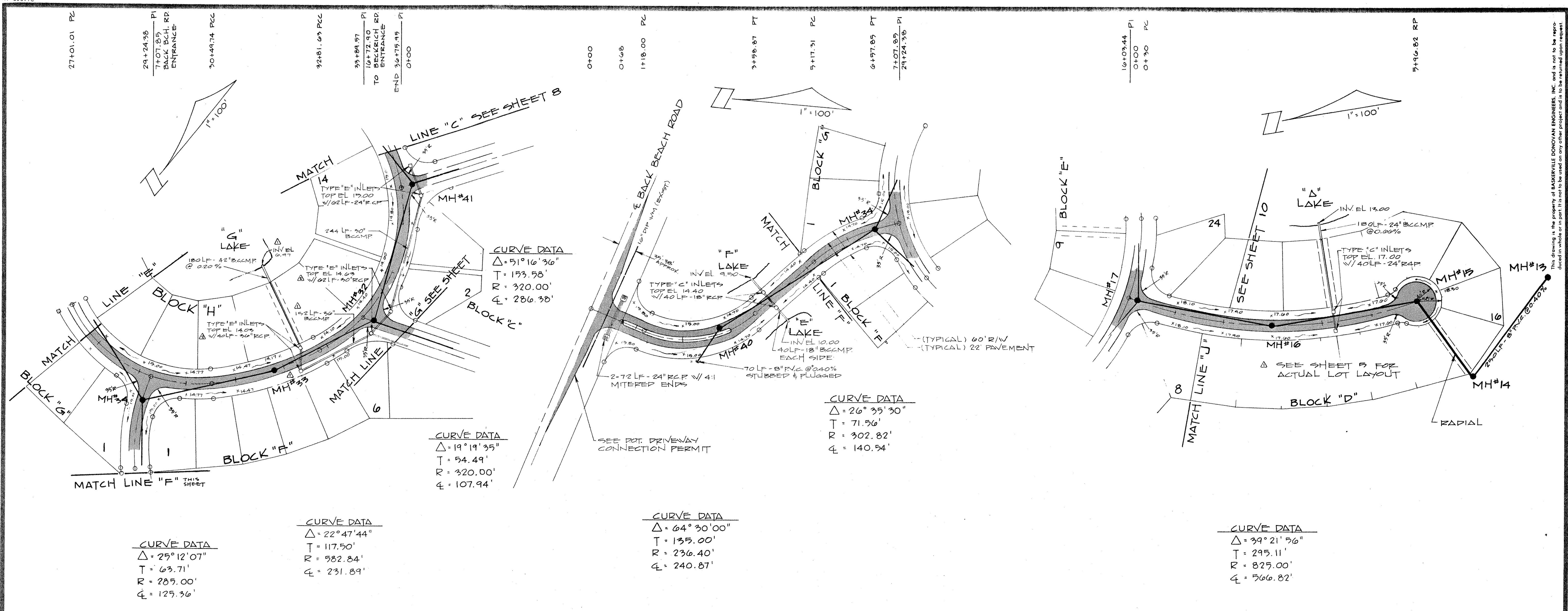
PROJECT NO. 89802 OF 8 INDEXES 6 OF 14 SHEETS

SCALE: 1" = 100'
 DATE: 2/13/89
 CHECKED: T.A.E.
 DESIGNED: T.A.E.
 RELEASED FOR CONSTRUCTION BY

NO.	DATE	REVISION
1	2/12/89	
2	2/12/89	

PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
ALIGNMENT CHECKED		
ST. OF WAY CHECKED		
NO.		

PROFILE	SURVEYED	DATE
NOTE BOOK	GRADES CHECKED	BY
STRUCTURE NOTATIONS CHECKED		
NO.		



CURVE DATA
 $\Delta = 25^\circ 12' 07''$
 $T = 63.71'$
 $R = 289.00'$
 $\ell = 129.36'$

CURVE DATA
 $\Delta = 22^\circ 47' 44''$
 $T = 117.50'$
 $R = 582.84'$
 $\ell = 231.89'$

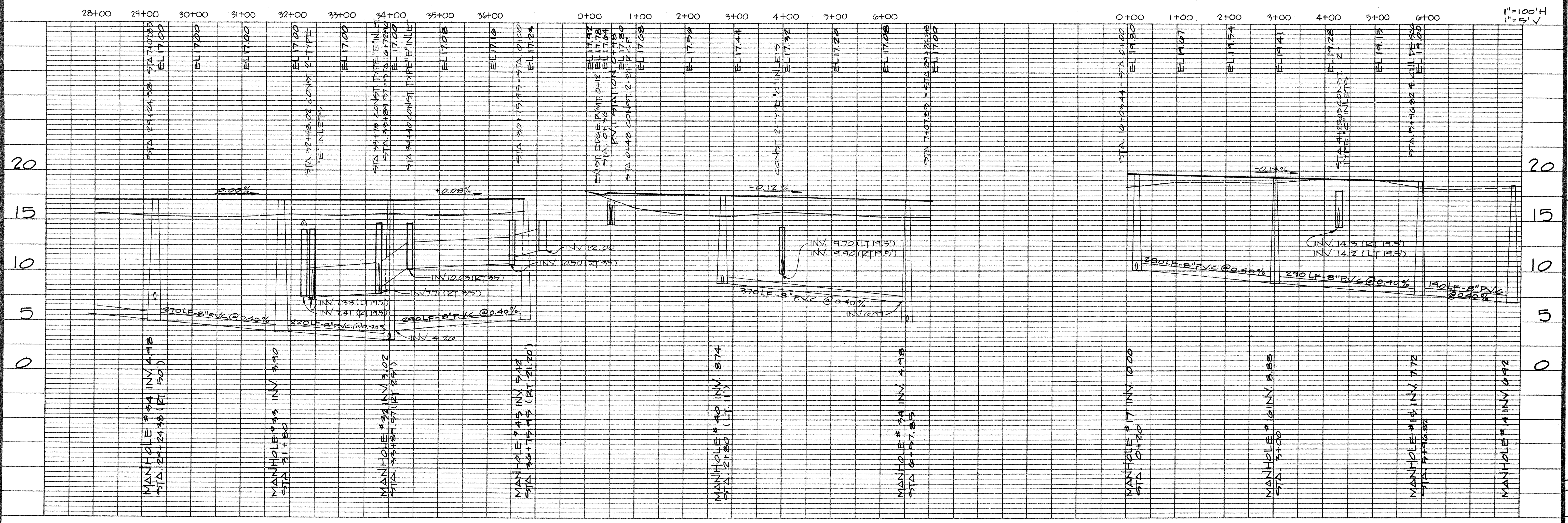
CURVE DATA
 $\Delta = 19^\circ 19' 35''$
 $T = 54.49'$
 $R = 320.00'$
 $\ell = 107.94'$

CURVE DATA
 $\Delta = 51^\circ 16' 36''$
 $T = 153.98'$
 $R = 320.00'$
 $\ell = 286.38'$

CURVE DATA
 $\Delta = 64^\circ 30' 00''$
 $T = 135.00'$
 $R = 236.40'$
 $\ell = 240.87'$

CURVE DATA
 $\Delta = 26^\circ 33' 30''$
 $T = 71.96'$
 $R = 302.82'$
 $\ell = 140.94'$

CURVE DATA
 $\Delta = 39^\circ 21' 56''$
 $T = 295.11'$
 $R = 825.00'$
 $\ell = 566.82'$



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 DRAWN BY: **DAE**
 CHECKED BY: **DAE**

DATE: 2/13/89

RELEASED FOR CONSTRUCTION

PLAN & PROFILE
EDGEWATER ESTATES
 PANAMA CITY BEACH, FL

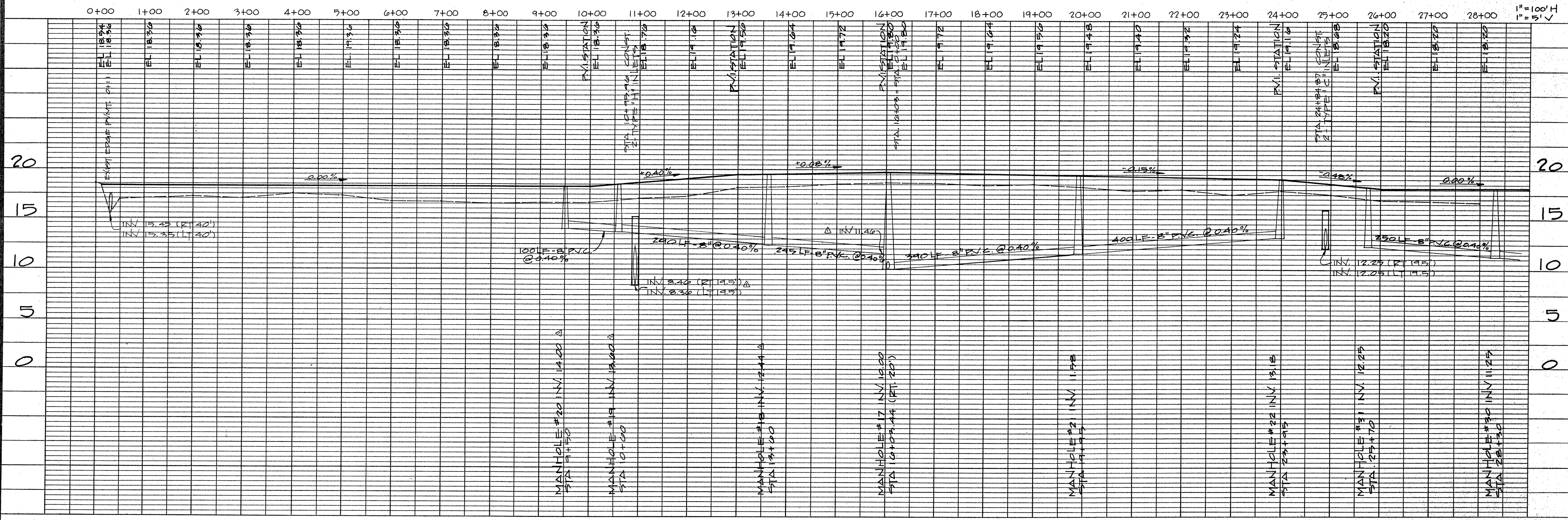
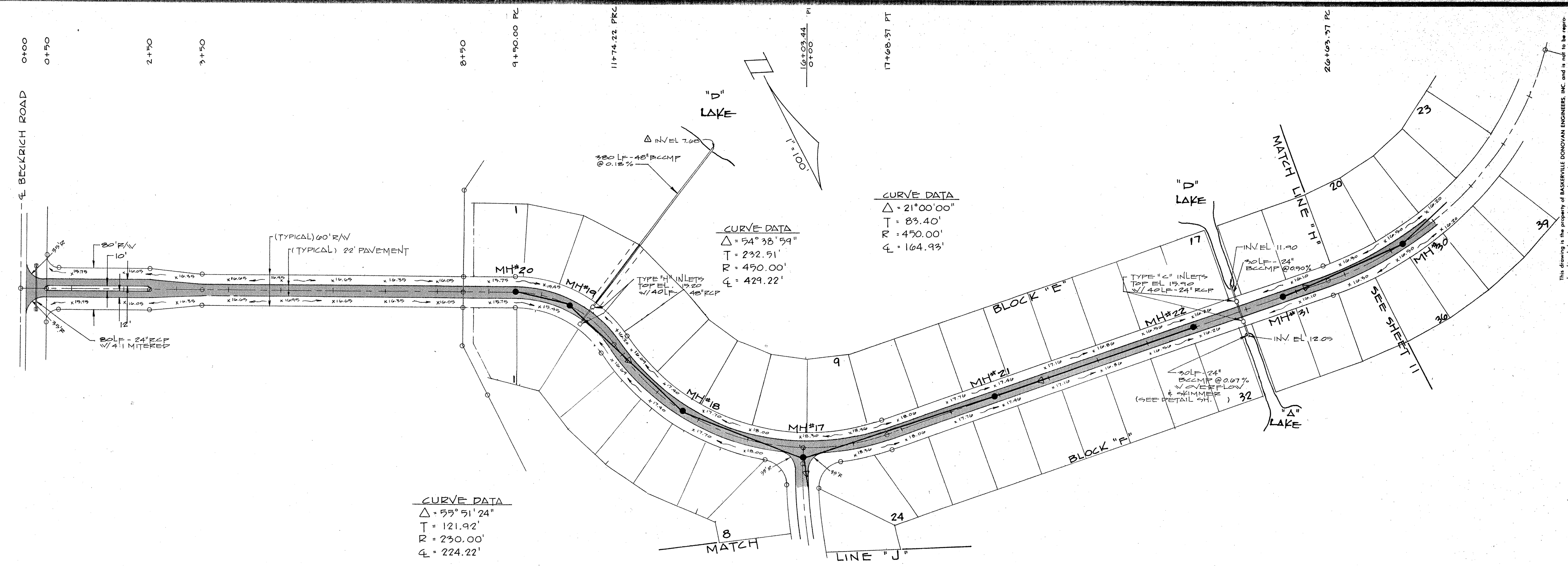
PROJECT NO. 89802
 NO. 9 OF 14 SHEETS

INDEX 506

REVISION	
NO.	DATE
1	2/22/89
2	2/21/89

DATE	BY
SURVEYED	NOTED
NOTE BOOK	GRADES CHECKED
NO.	NO.
PLANNED	ALIGNED CHECKED
NO.	NO.
PT. OF WAY CHECKED	

DATE	BY
SURVEYED	NOTED
NOTE BOOK	GRADES CHECKED
NO.	NO.
PLANNED	ALIGNED CHECKED
NO.	NO.
PT. OF WAY CHECKED	



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NO.	DATE	APPR.
1	2/22/87	
2	9/21/87	

NO.	DATE	APPR.
1	2/22/87	
2	9/21/87	

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PLAN & PROFILE
EDGEWATER ESTATES
 PANAMA CITY BEACH, FL

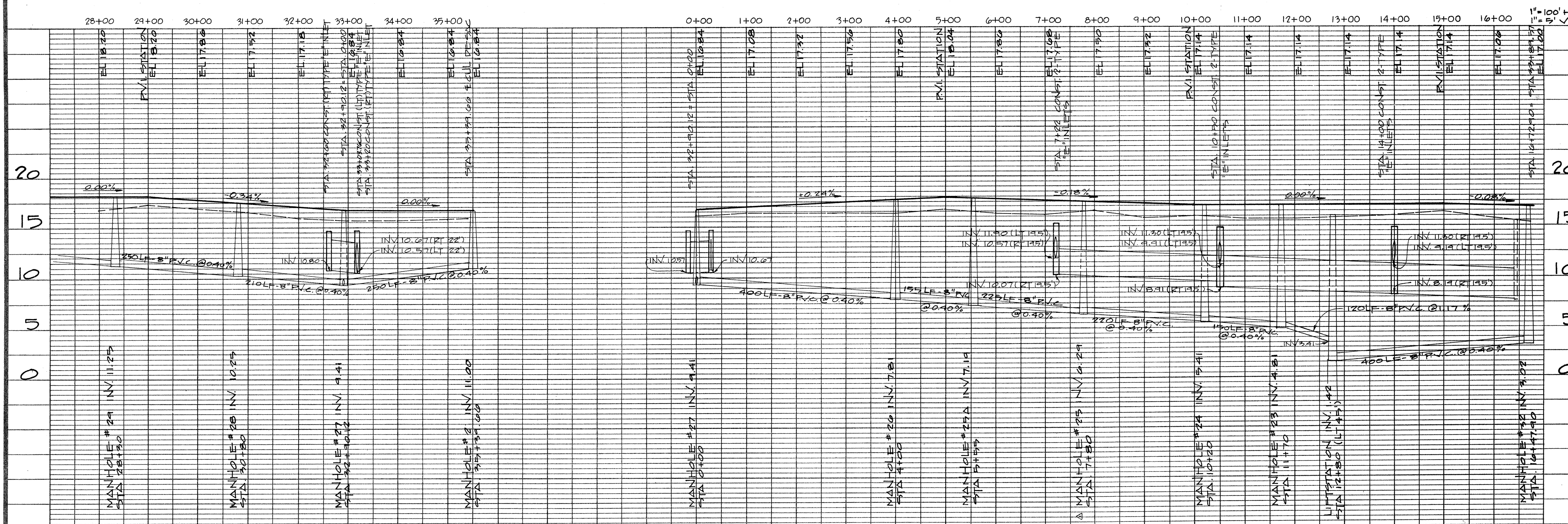
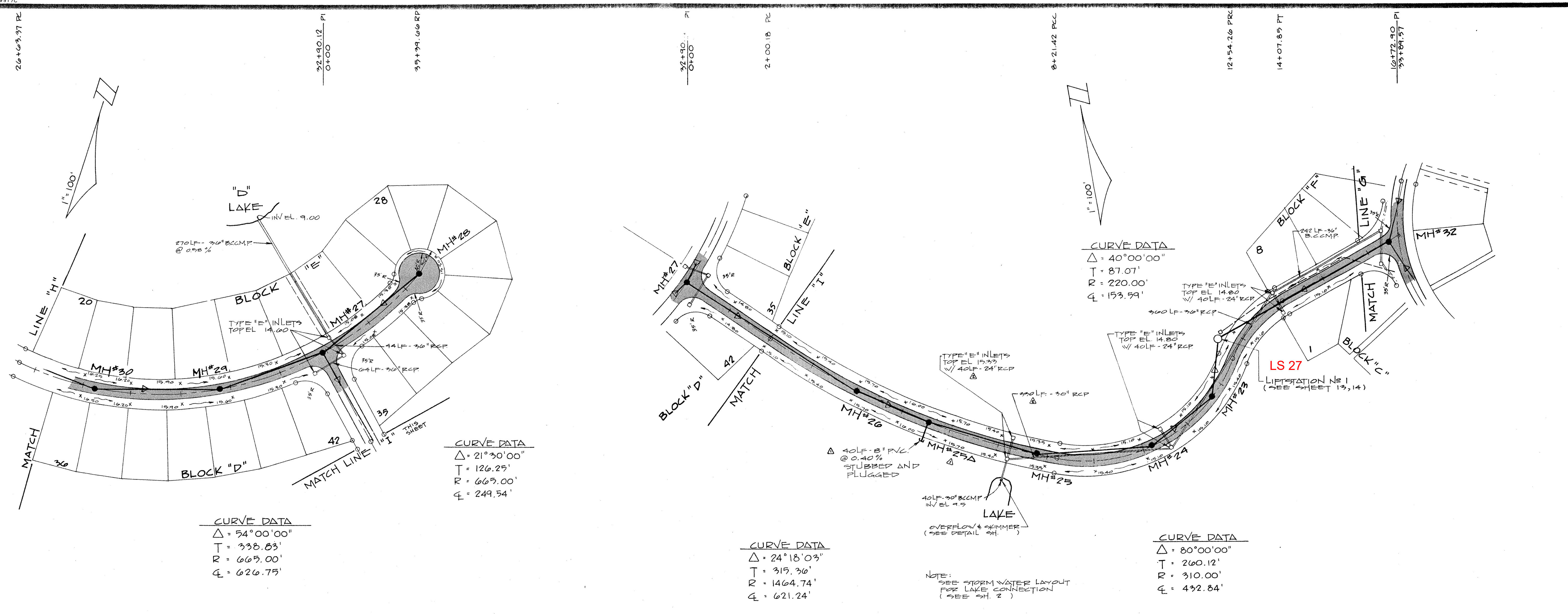
PROJECT NO. 88802 OF 10 INDEXES 6 OF 14 SHEETS

DESIGNED BY T.A.E. CHECKED BY T.A.E. DATE 2/15/87

RELEASED FOR CONSTRUCTION BY

PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	
ALIGNED	CHECKED	
BY	PT. OF WAY CHECKED	

PROFILE	SURVEYED	DATE
NOTE BOOK	PLOTTED	
STRUCTURE NOTATIONS CHECKED		



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REVISION	
NO.	DATE
1	2/22/89
2	3/21/89

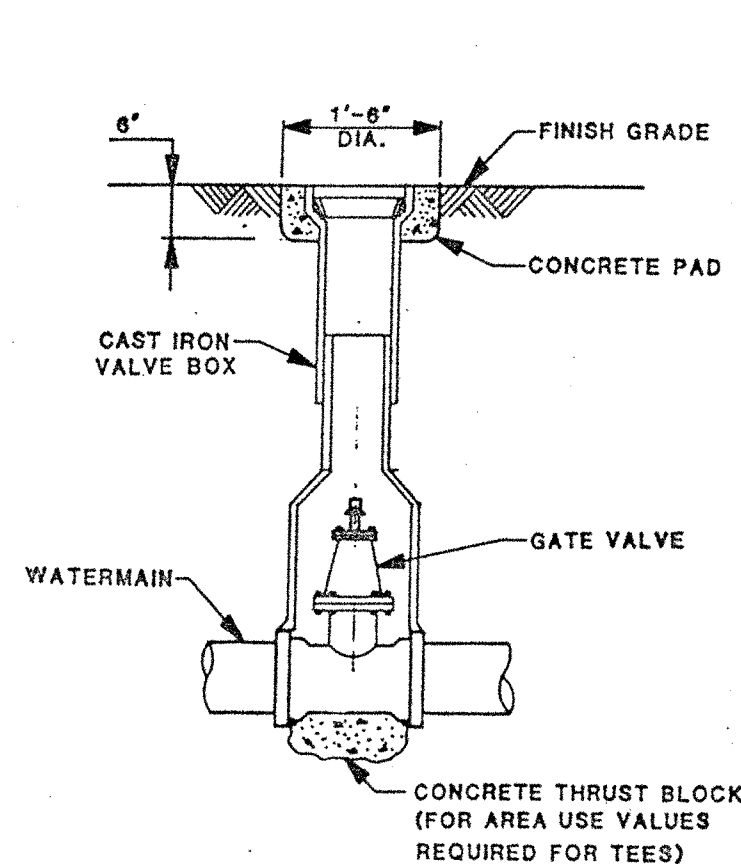
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SCALE: 1" = 100'
 DRAWN: T.A.E.
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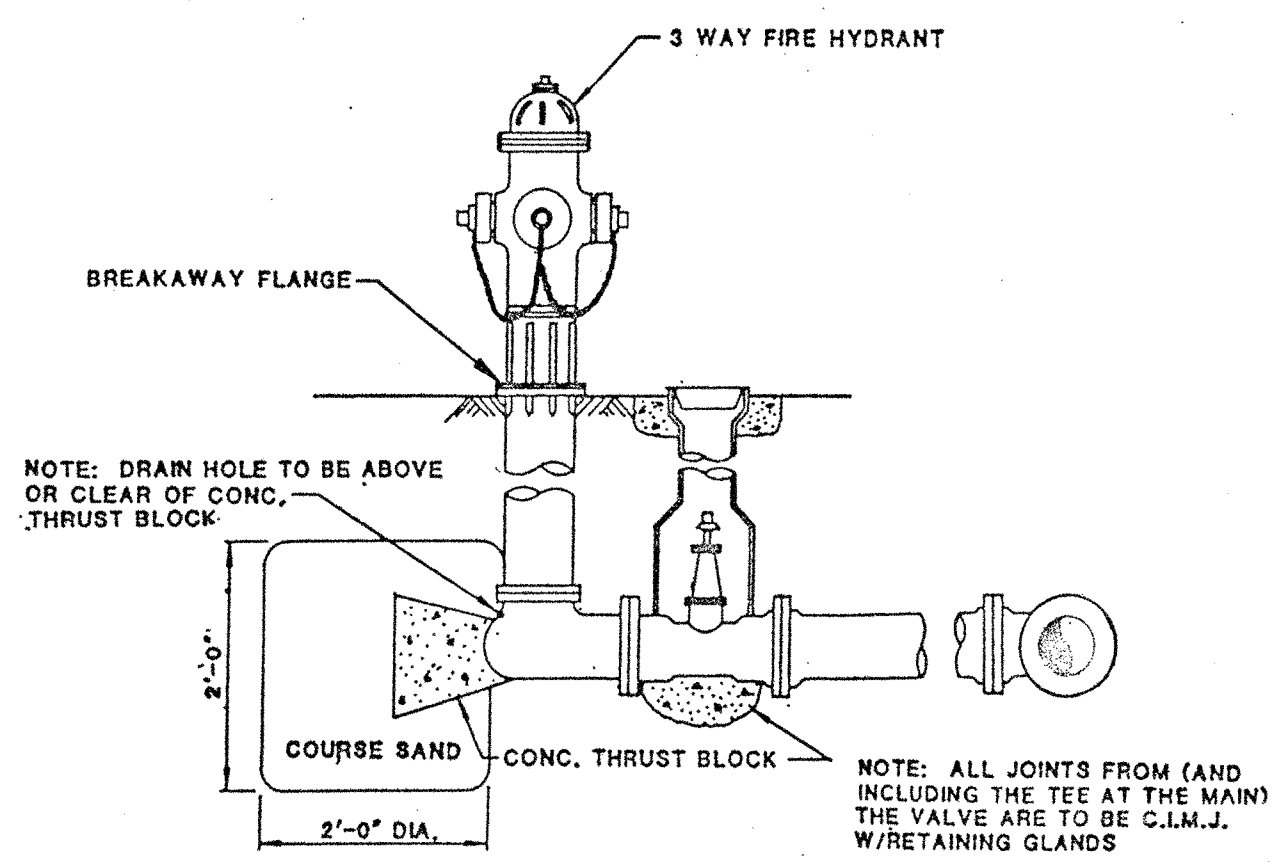
PLAN & PROFILE
EDGEWATER ESTATES
 PANAMA CITY BEACH, FL

PROJECT NO. 89802
 NO. 11 OF 14 SHEETS

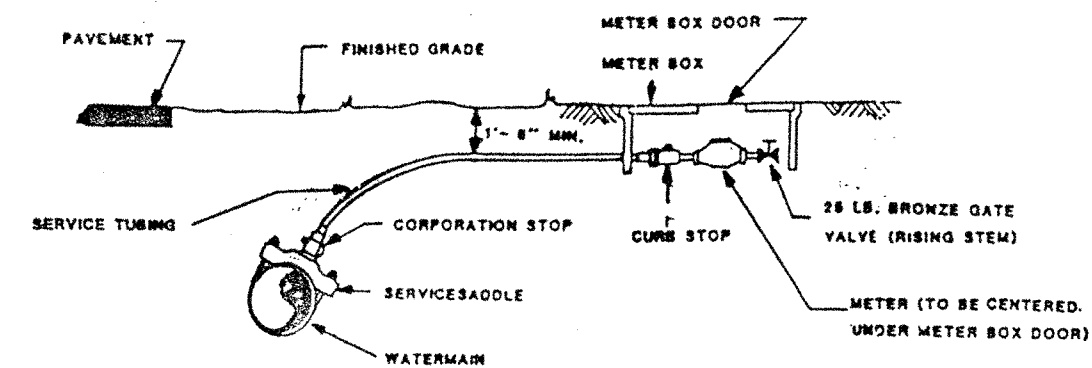
QUALITY CONTROL



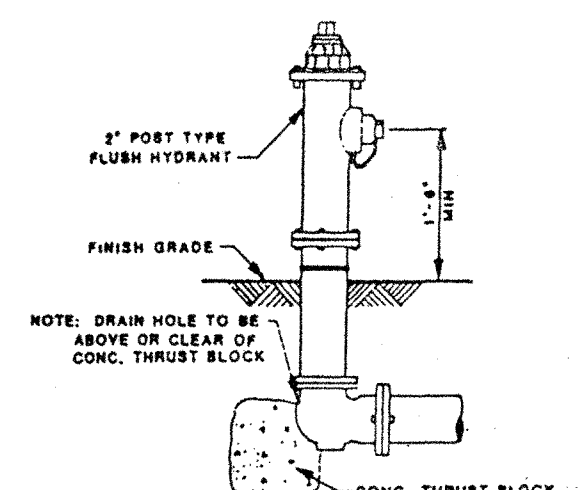
VALVE BOX SETTING
NOT TO SCALE



FIRE HYDRANT ASSEMBLY
NOT TO SCALE

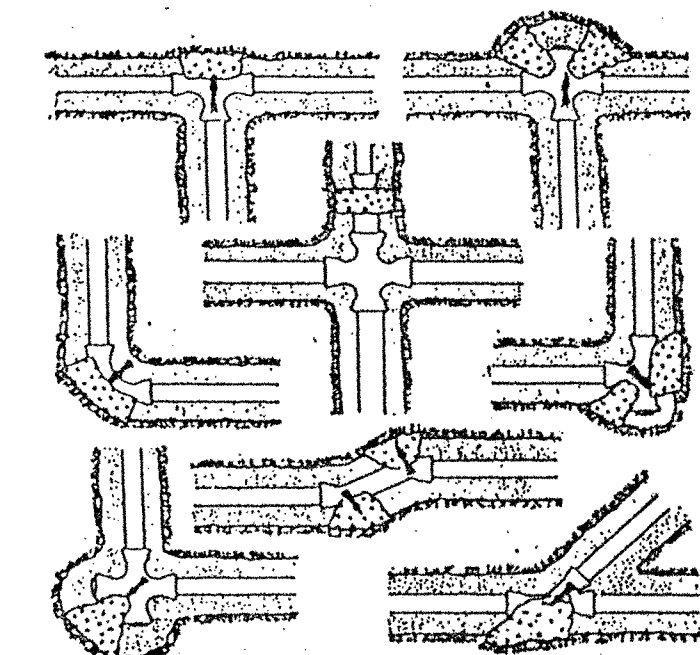


TYPICAL SERVICE CONNECTION



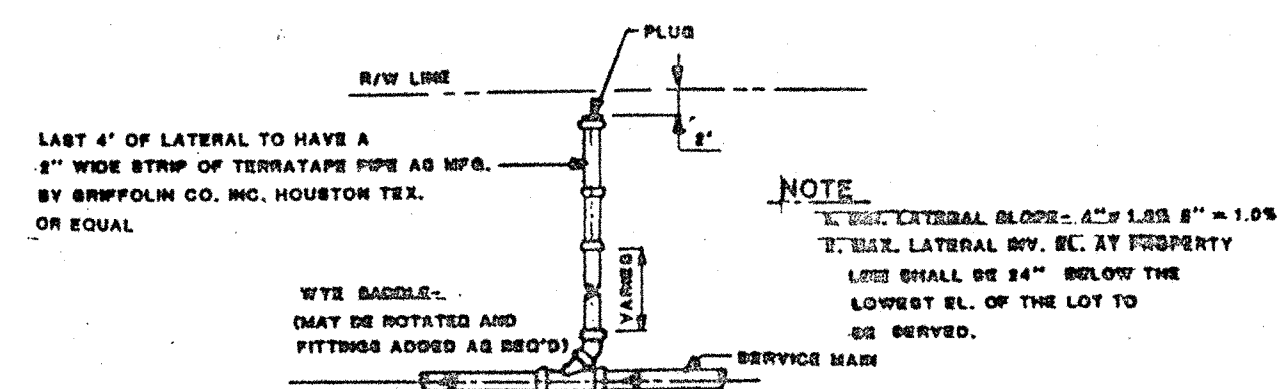
TYPICAL FLUSHING HYDRANT
NOT TO SCALE

THRUST BLOCK TO BE MINIMUM THICKNESS OF 12" WITH A THRUST AREA AS SPECIFIED IN SCHEDULE

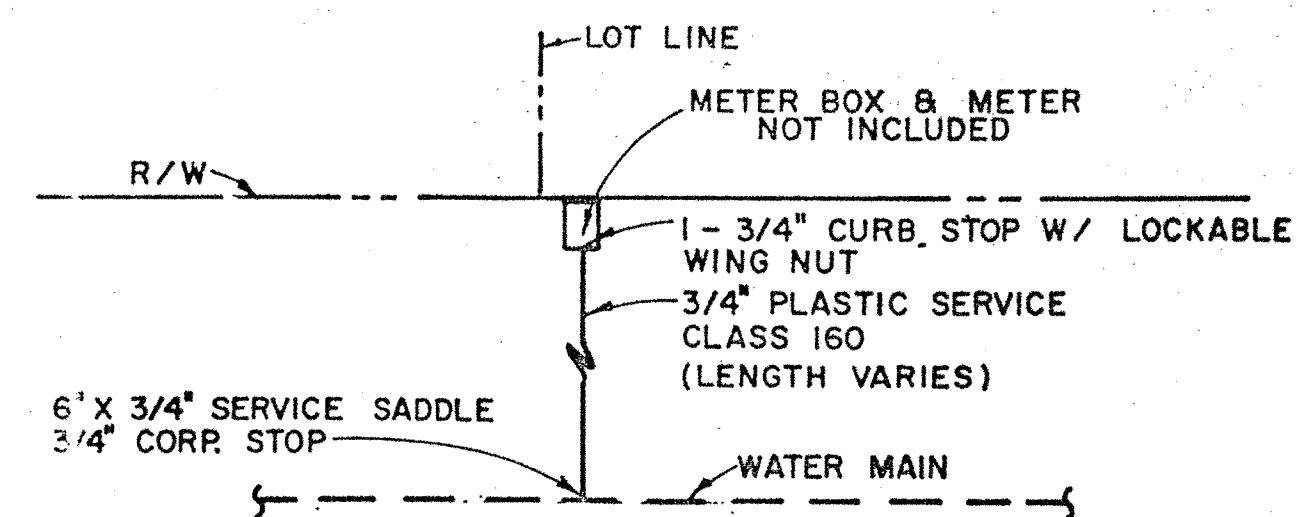


CAP OR TEE	90 BEND	45 BEND	22 1/2 BEND
2"	1.0 S.F.	1.0 S.F.	1.0 S.F.
3"	1.3 S.F.	1.8 S.F.	1.0 S.F.
4"	2.6 S.F.	3.7 S.F.	1.0 S.F.
6"	4.8 S.F.	6.8 S.F.	1.9 S.F.
8"	8.1 S.F.	11.4 S.F.	3.2 S.F.
10"	11.6 S.F.	16.5 S.F.	4.6 S.F.

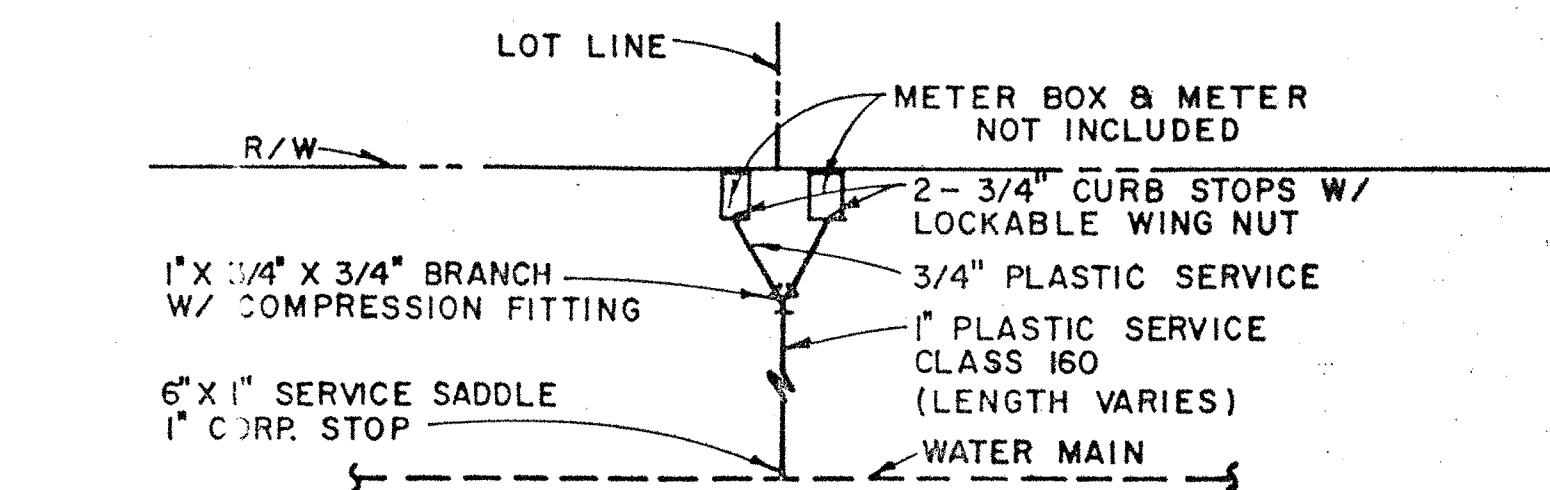
THRUST BLOCK SCHEDULE



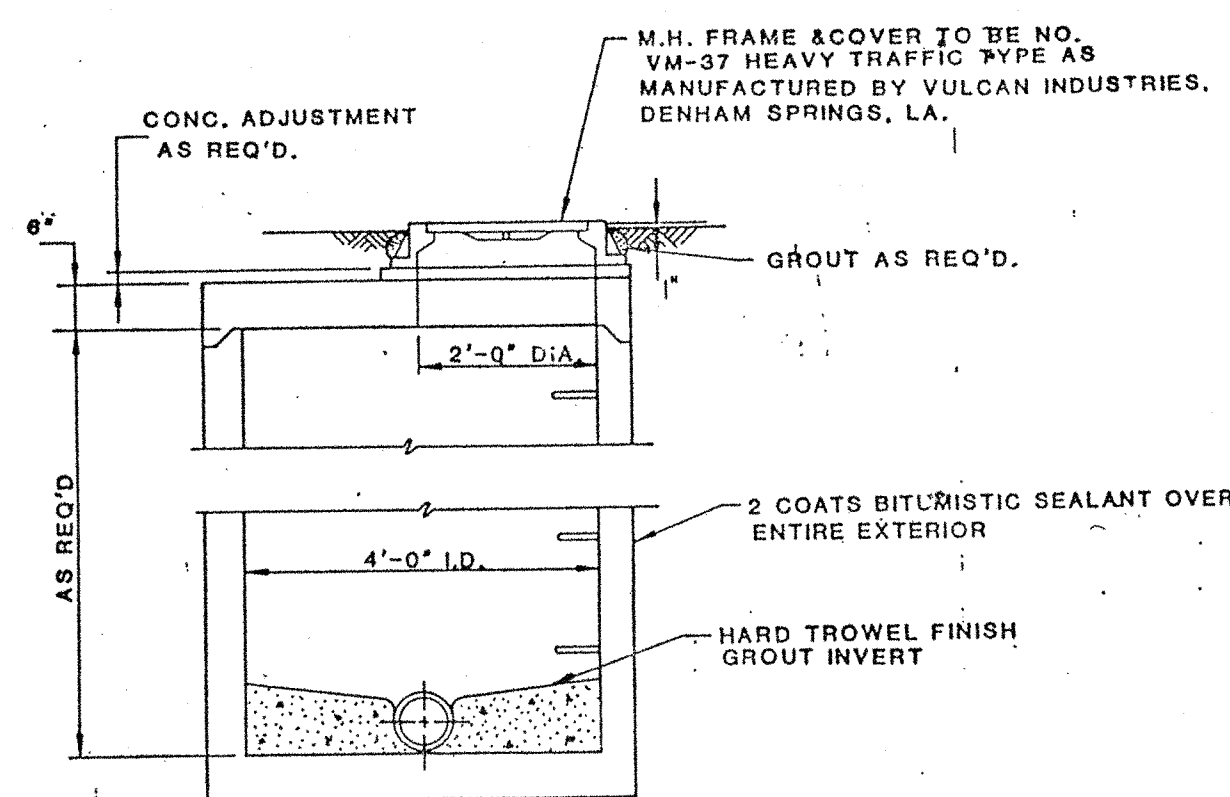
TYPICAL SANITARY SERVICE CONNECTION
NOT TO SCALE



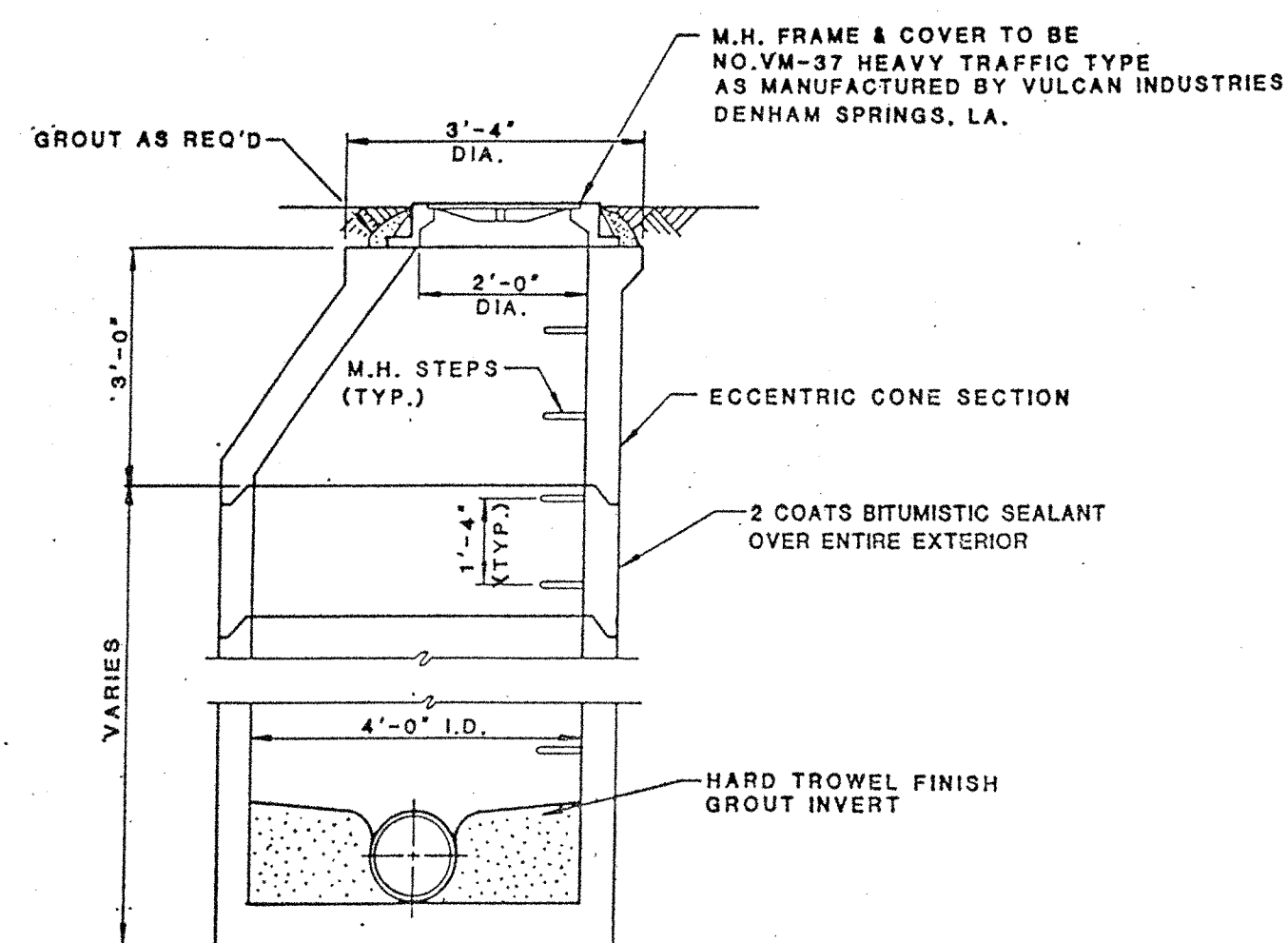
SINGLE SERVICE CONNECTION
NO SCALE



DOUBLE SADDLE SERVICE CONNECTION
NO SCALE



MANHOLE SECTION
FOR DEPTHS LESS THAN 6 FEET
NOT TO SCALE



MANHOLE SECTION
(FOR DEPTHS GREATER THAN 6 FEET)
NOT TO SCALE

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REVISION

PELETE ALBERNATE PUSING DETAIL

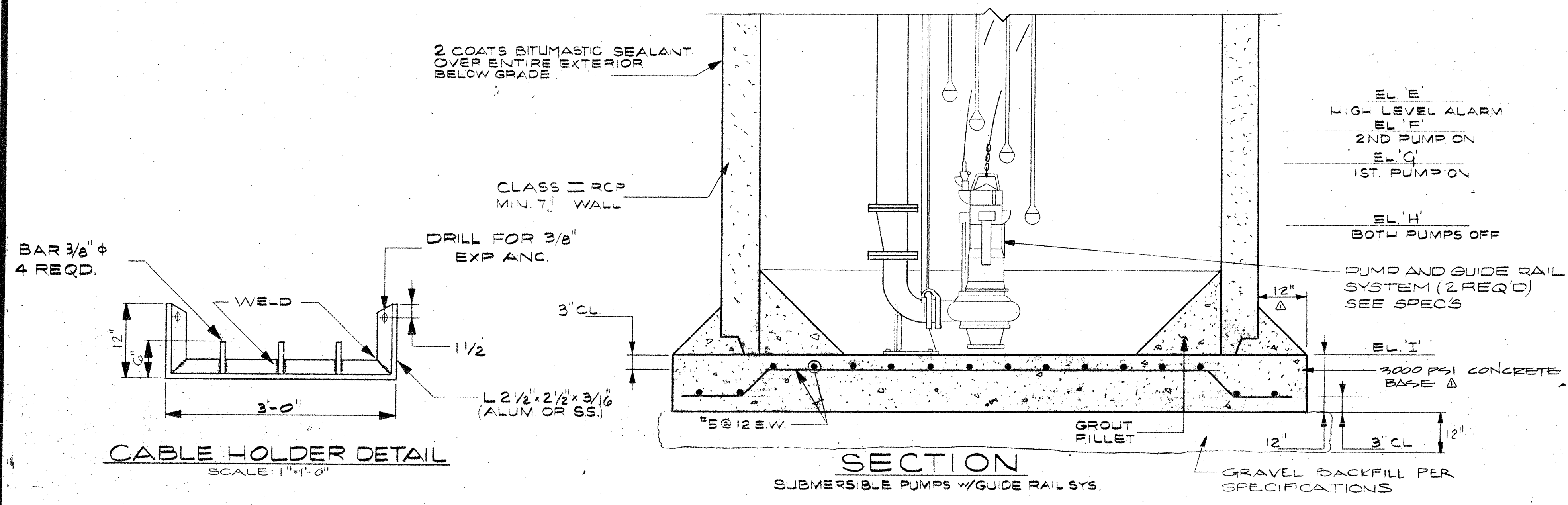
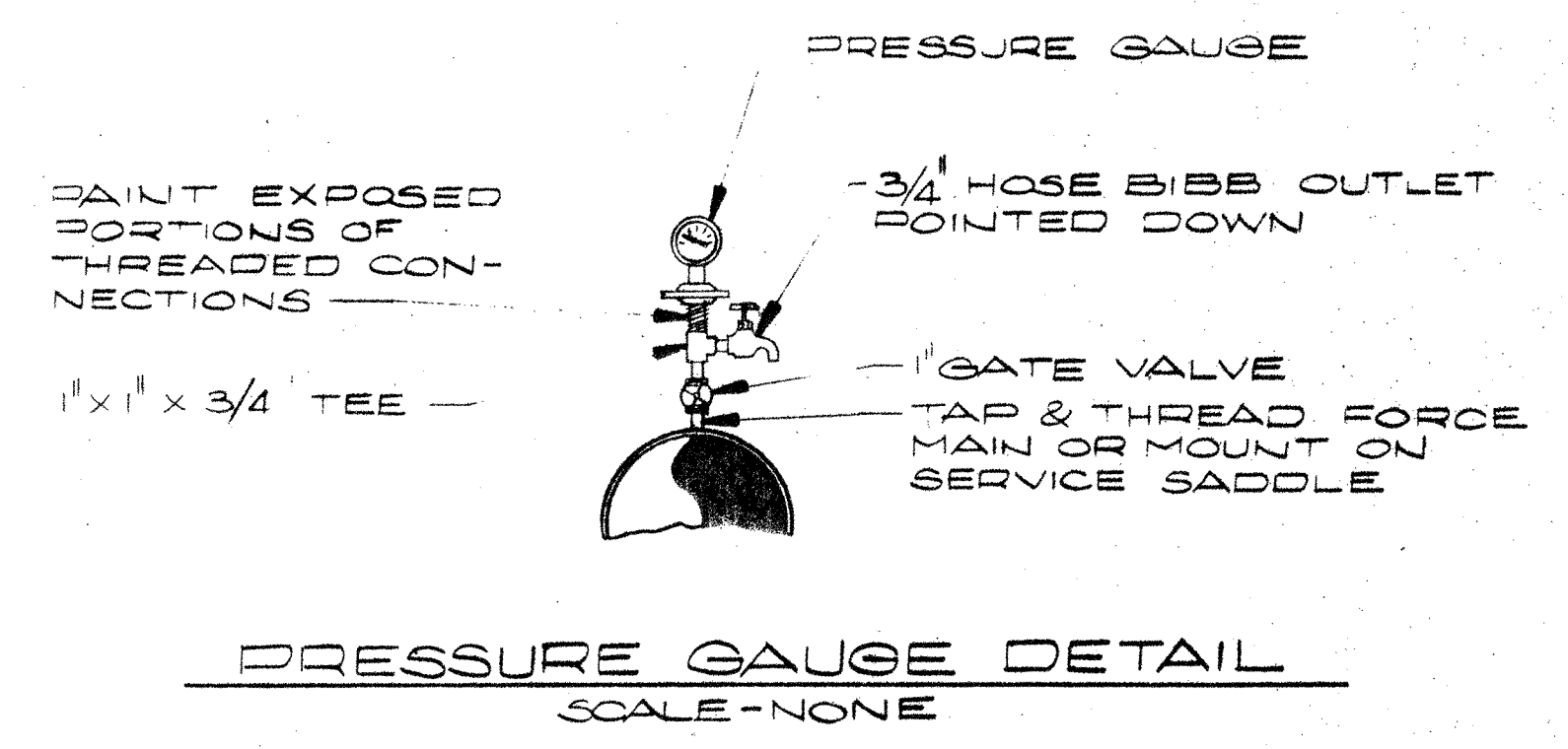
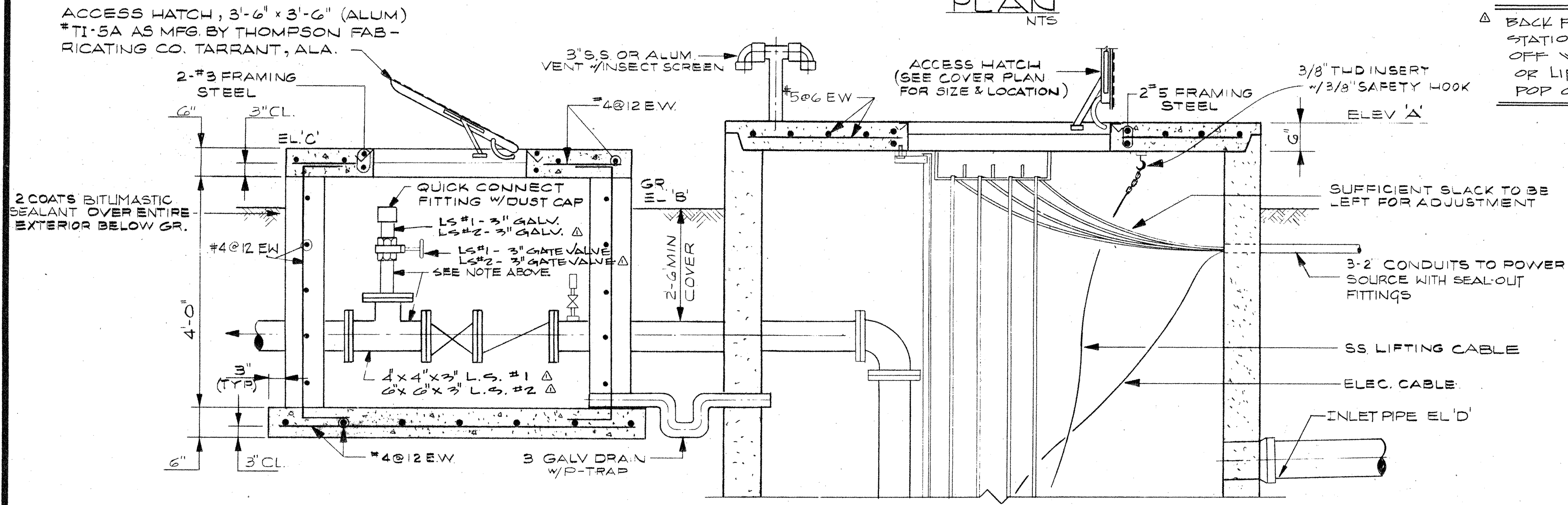
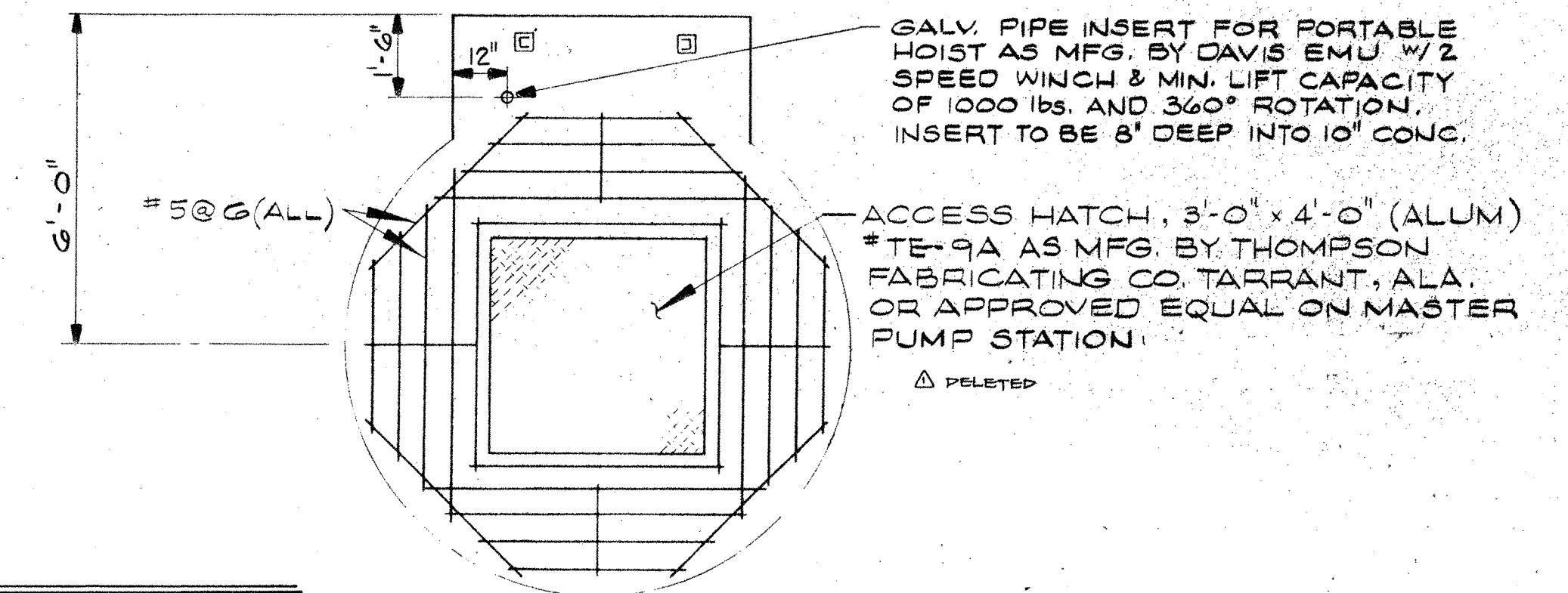
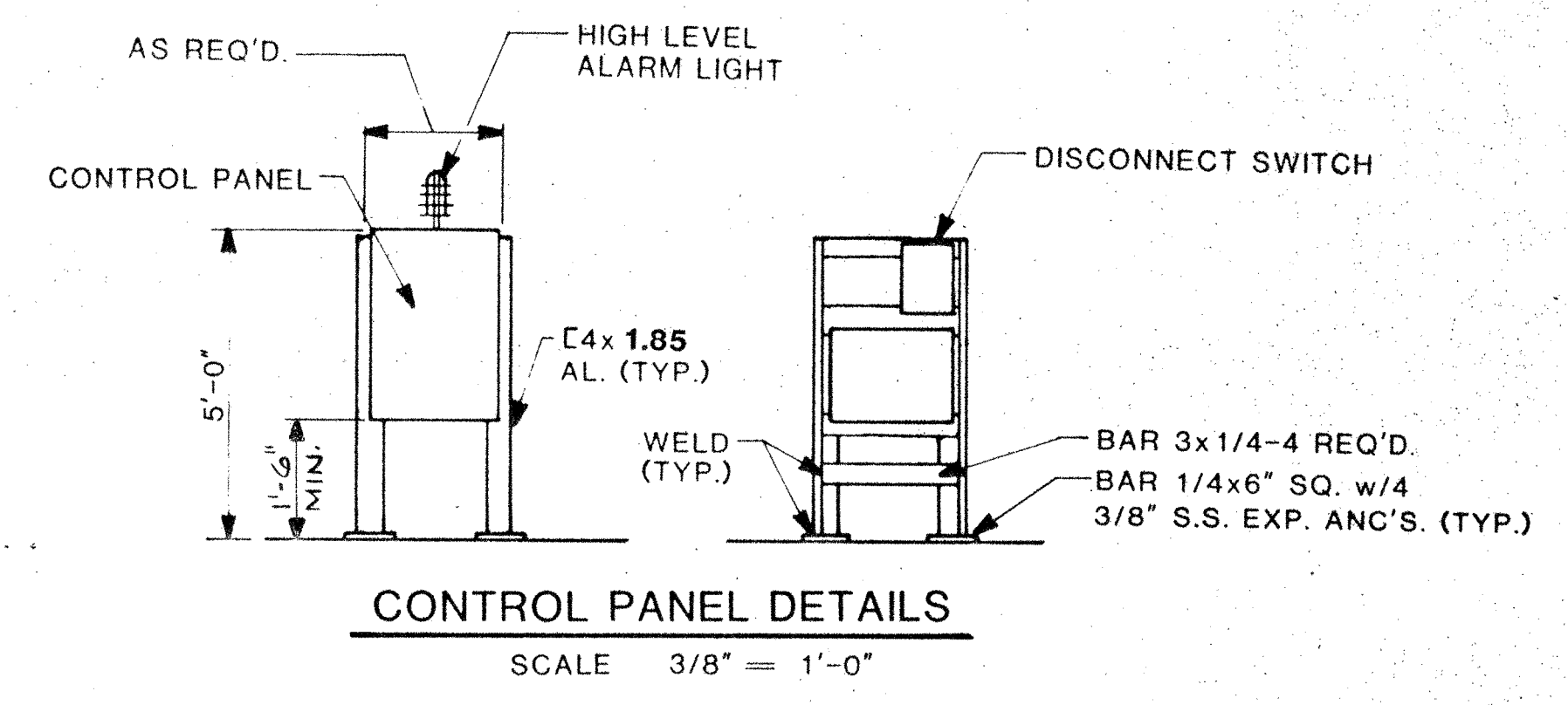
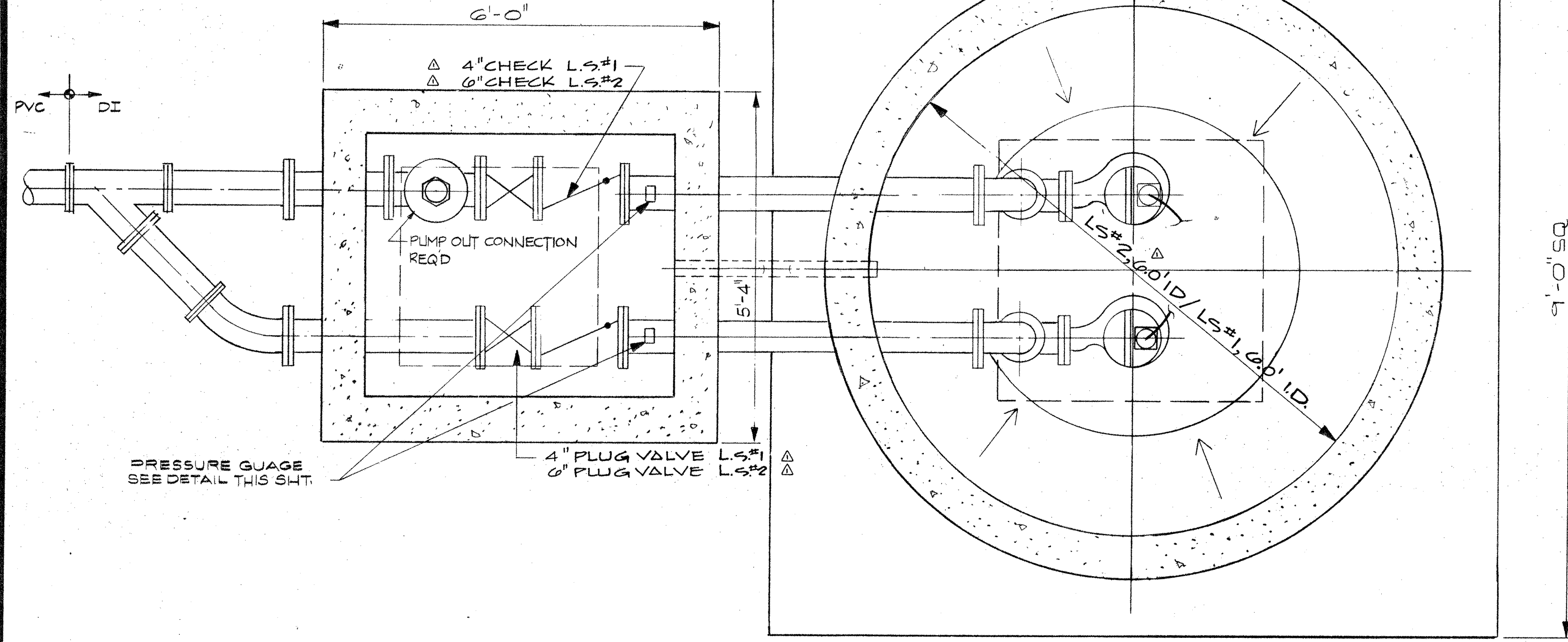
NO.	DATE	APPR.
1	2/25/87	
2	3/21/87	

BASKERVILLE DONOVAN ENGINEERS, INC.

WATER & SANITARY SEWER DETAILS
EDGEWATER ESTATES
PANAMA CITY BEACH, FL

PROJECT NO. 89902
NO. 12 OF 14 SHEETS

OVERLAY IDENTIFICATION
COMPOSITE
OVERLAY
SCREEN

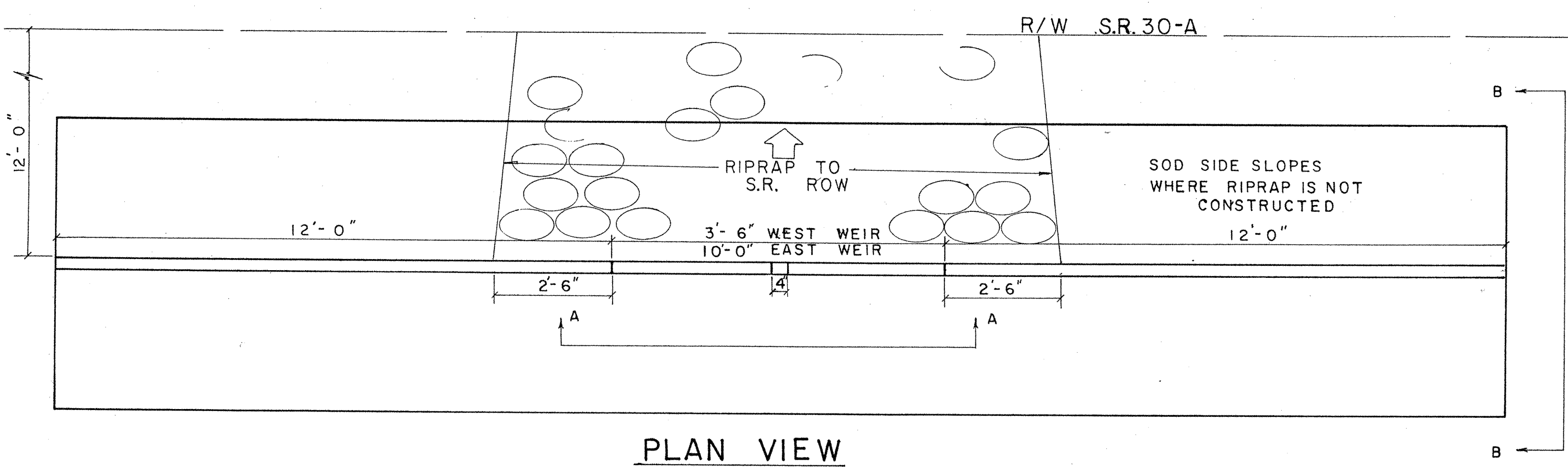


PUMP STATION ELEVATION			
LOCATION	LIFT STATION #1	LIFT STATION #2	
A TOP OF STATION	17.00	17.4	
B GRADE	16.00	16.4	
C TOP OF VALVE BOX	16.50	16.9	
D INLET PIPE INVERTS	1.42	3.41	0.94 Δ PELETED
E HIGH LEVEL ALARM	1.40	1.50	
F 2ND PUMP ON	0.90	1.00	
G 1ST PUMP ON	0.40	0.50	
H PUMPS OFF	-2.00	-2.50	
I BOTTOM	-4.00	-4.50	
J WET WELL DIA.	6'-0"	6'-0"	
K PEAK INFLOW GPM	110	200	
L FM. DISCHARGE EL.	17.5	10.5	
M MANIFOLD PRESSURE	N/A		VARIABLES 0 TO 40 PSI AS PER PCB. UTILITY DEPT.
N PUMP SELECTION	BY VENDOR SUBJECT TO REVIEW AND APPROVAL BY ENGINEER.		

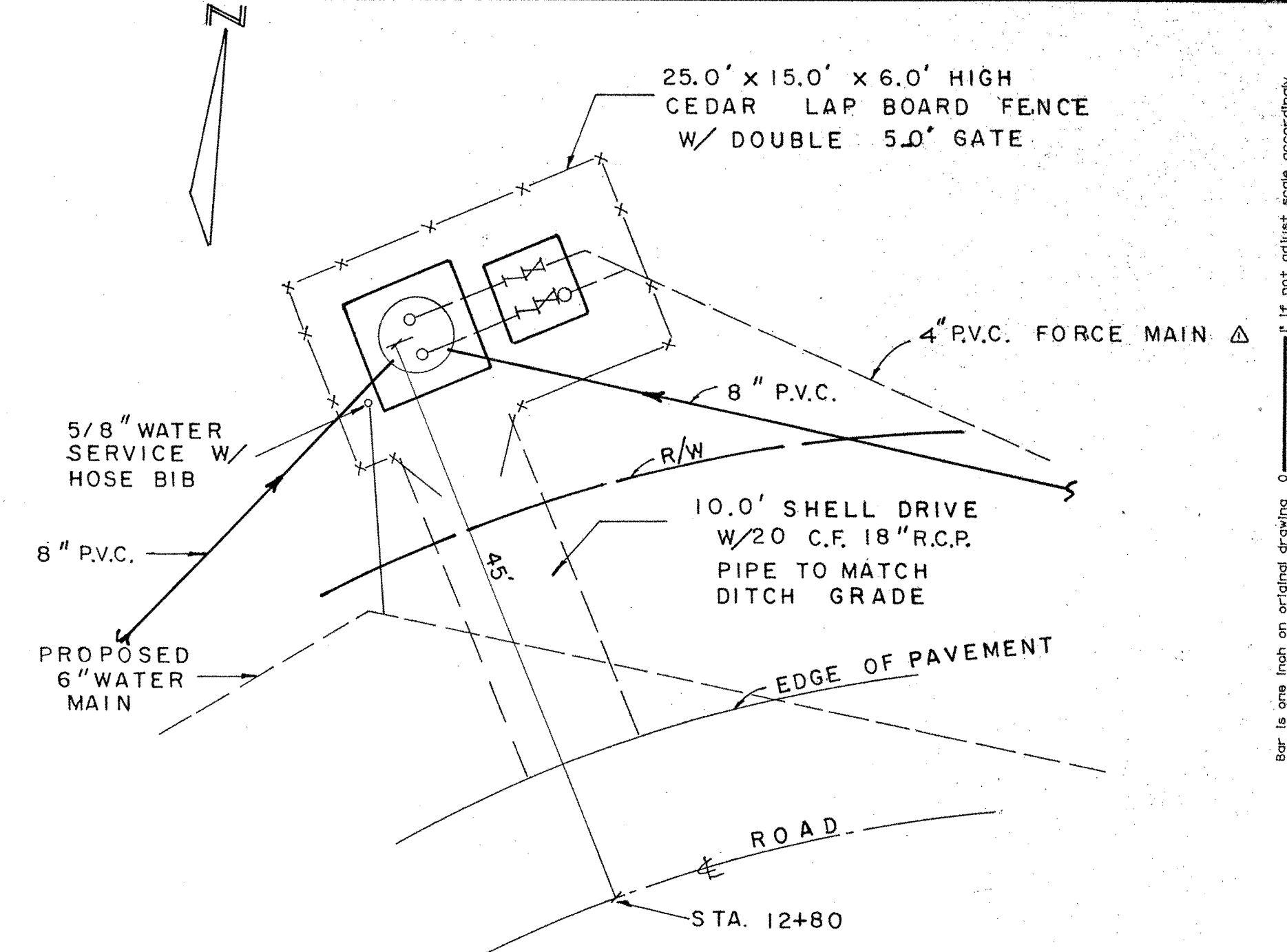
NOTE: PUMPS TO BE DAVIS EMU, THOMASVILLE, GA.
LIFT TELEMETRY TO BE INSTALLED ON EACH LIFT STATION AS PER CITY OF P.C.B.
CONTACT: MR. FRED DOZIEN
MOTOROLA
407-629-1177 FOR COST & SPECIFICATIONS

BASKERVILLE DONOVAN ENGINEERS, INC.
 ENGINEERS
 PANAMA CITY BEACH, FL
 RELEASED FOR CONSTRUCTION BY
 DATE 2/13/87
 CHECKED
 DRAWN
 DESIGNED
 SCALE AS SHOWN
 PROJECT NO. 89802 OF 14 SHEETS
 INDEX 5 6 0 6
 REVISION
 DATE 2/12/87
 DATE 2/12/87
 NO. Δ Δ
 APPR.
 PROJECT NO. 89802 OF 14 SHEETS
 INDEX 5 6 0 6

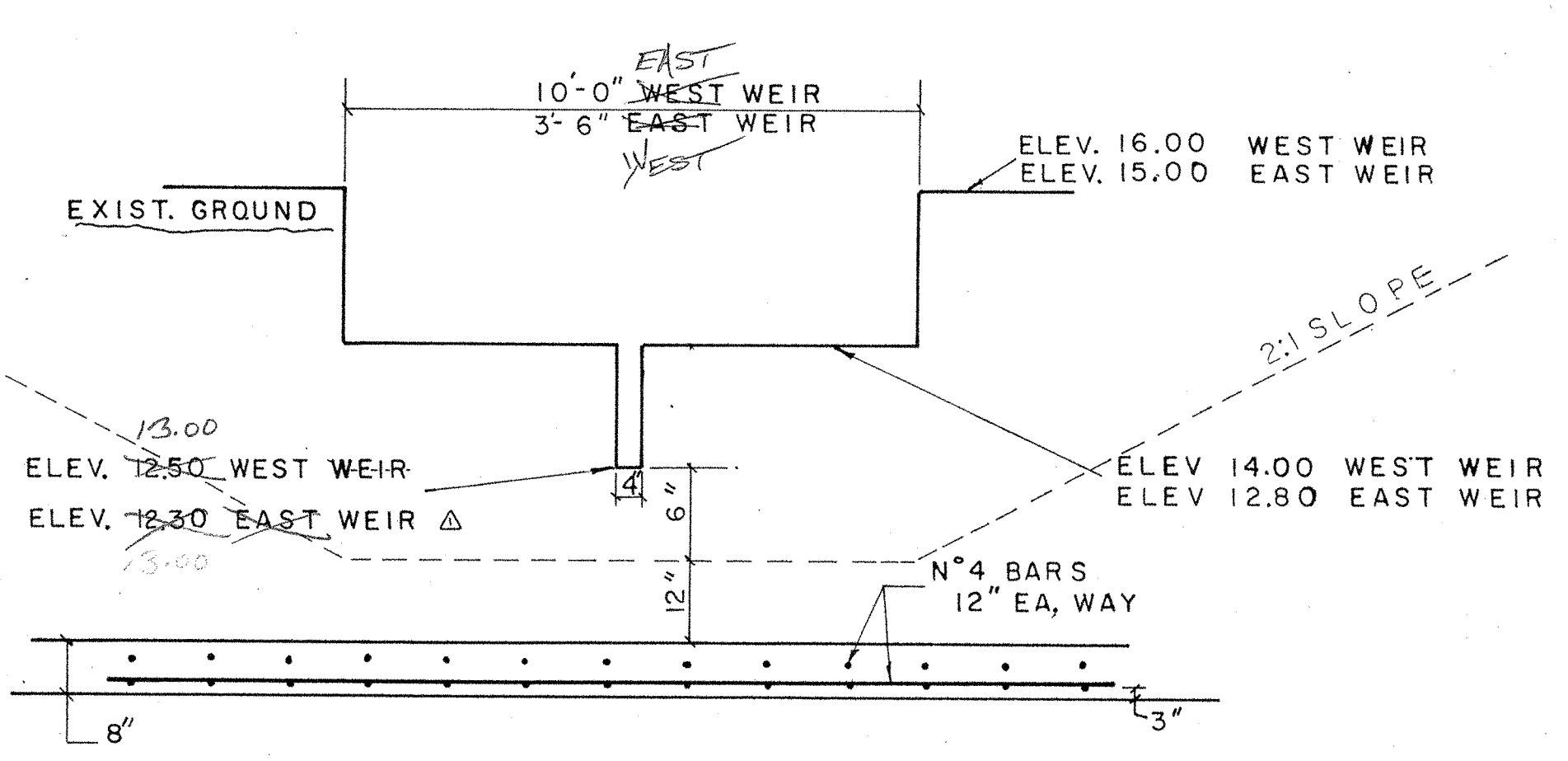
QUALITY CONTROL



PLAN VIEW

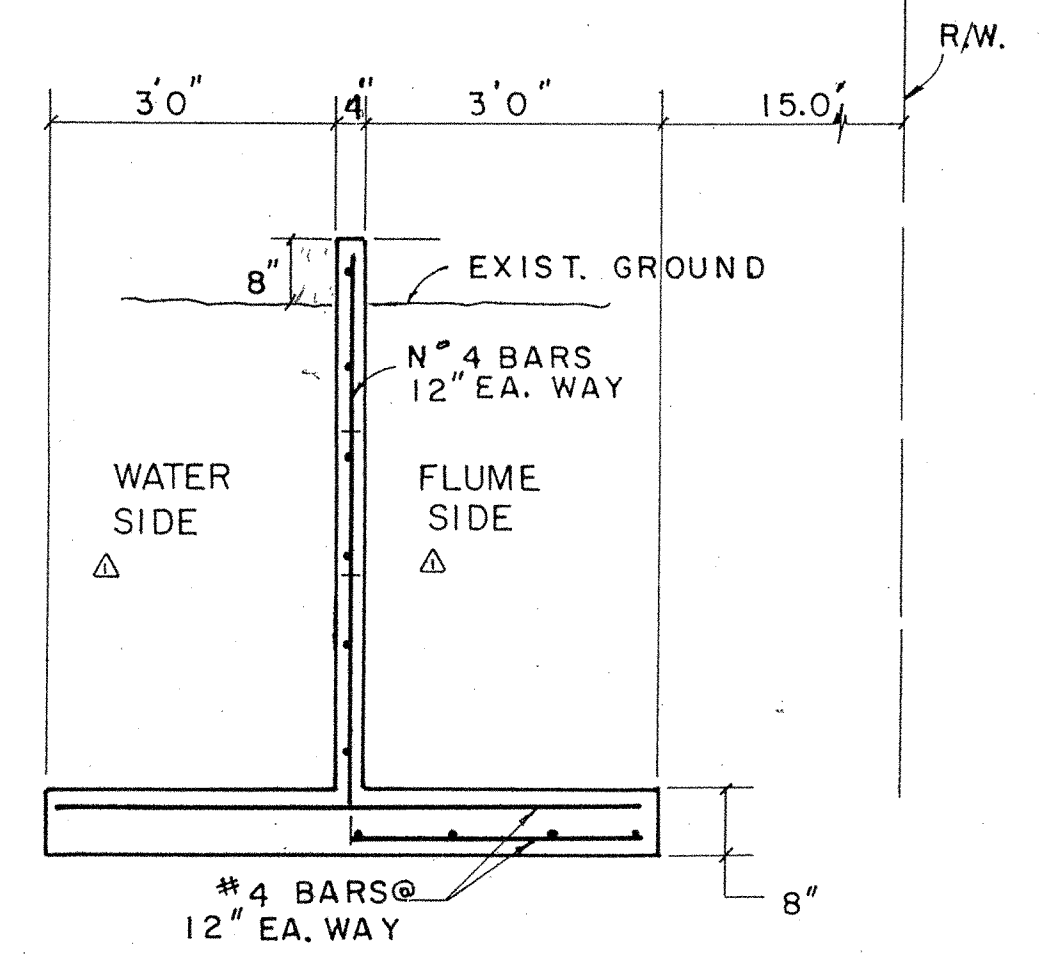


SITE LAYOUT LIFT STATION NO. 1 N.T.S.

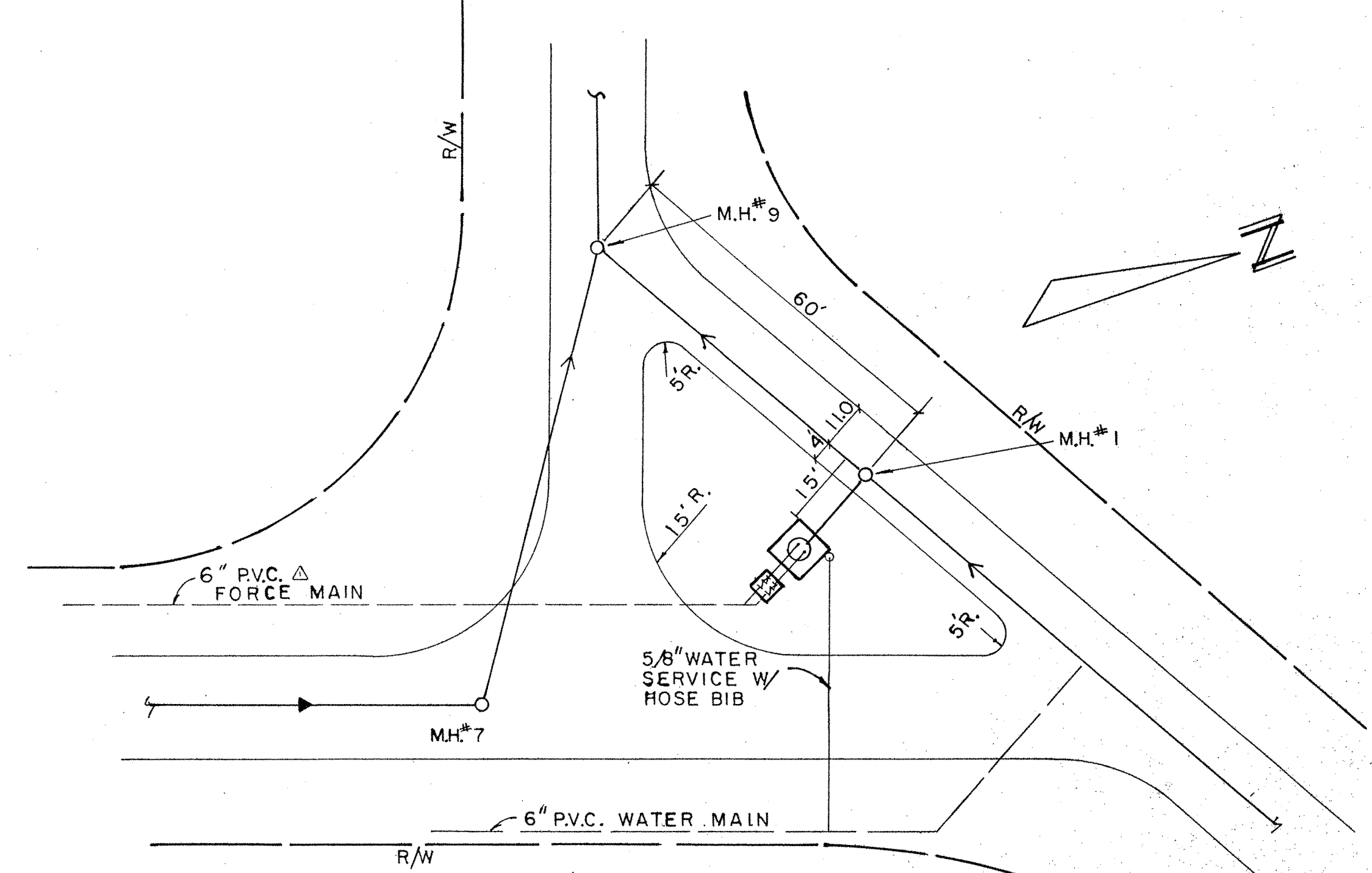


SECTION A-A

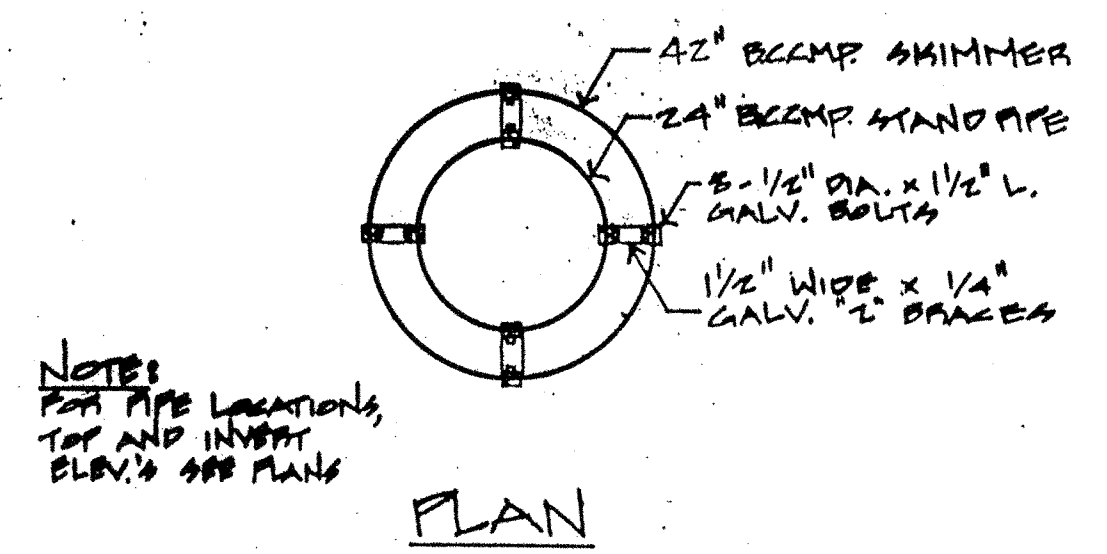
WEIR OUTFALL STRUCTURES



SECTION B-B

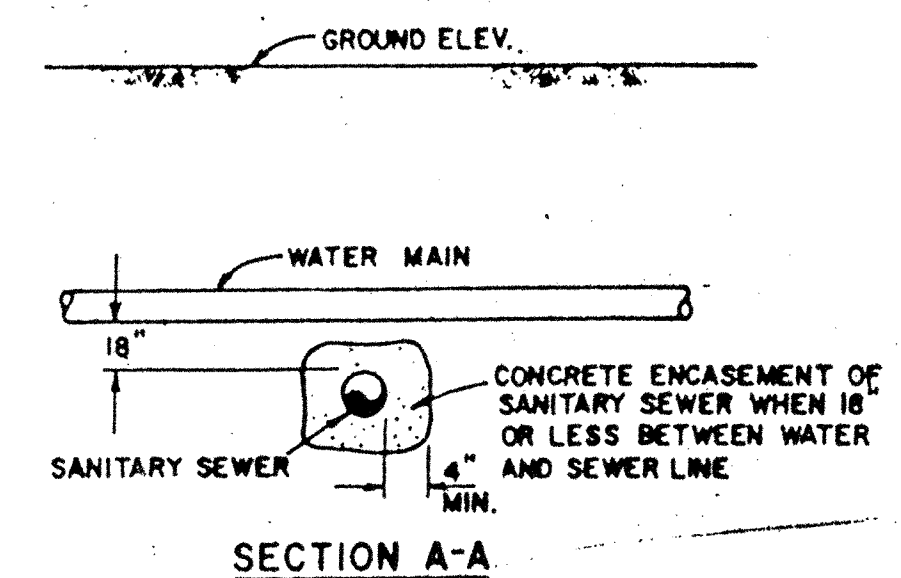


SITE LAYOUT LIFT STATION NO. 2 N.T.S.

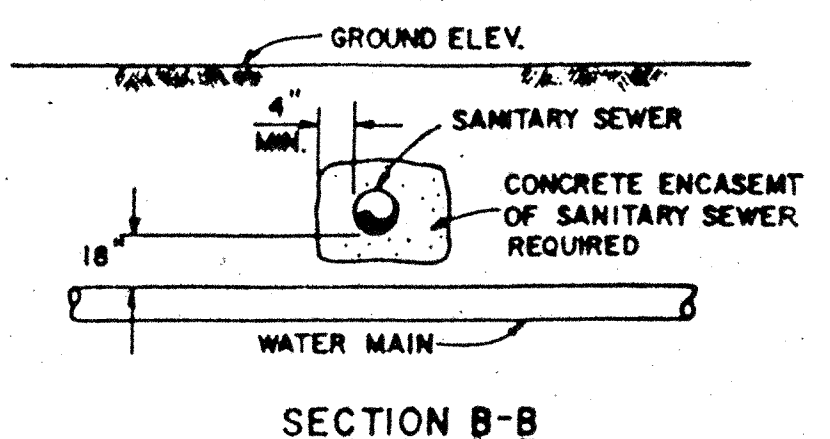


NOTE: FOR PIPE LOCATIONS, TOP AND INVERT ELEV.'S SEE PLANS

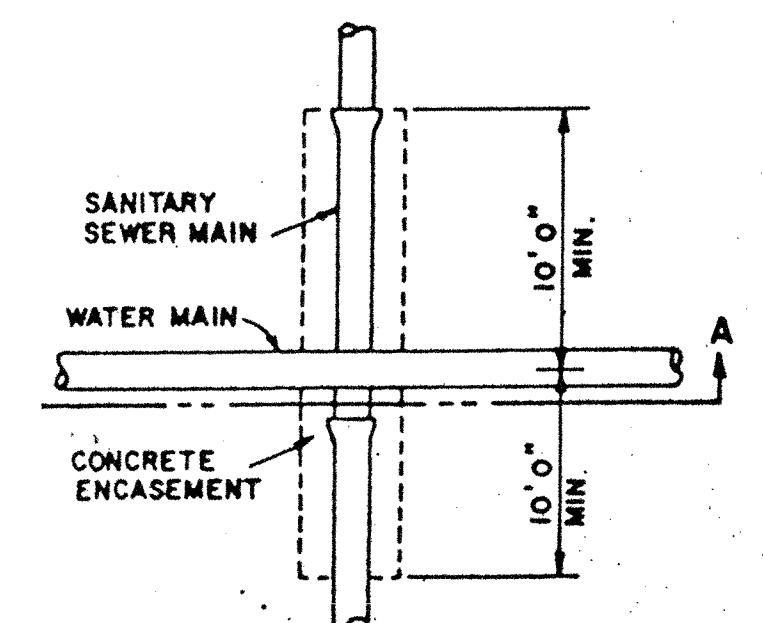
PLAN



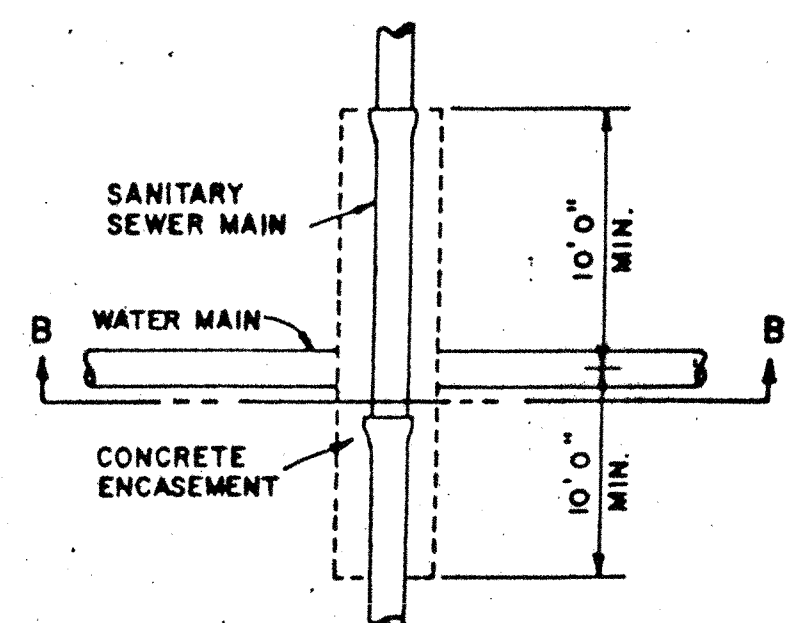
SECTION A-A



SECTION B-B

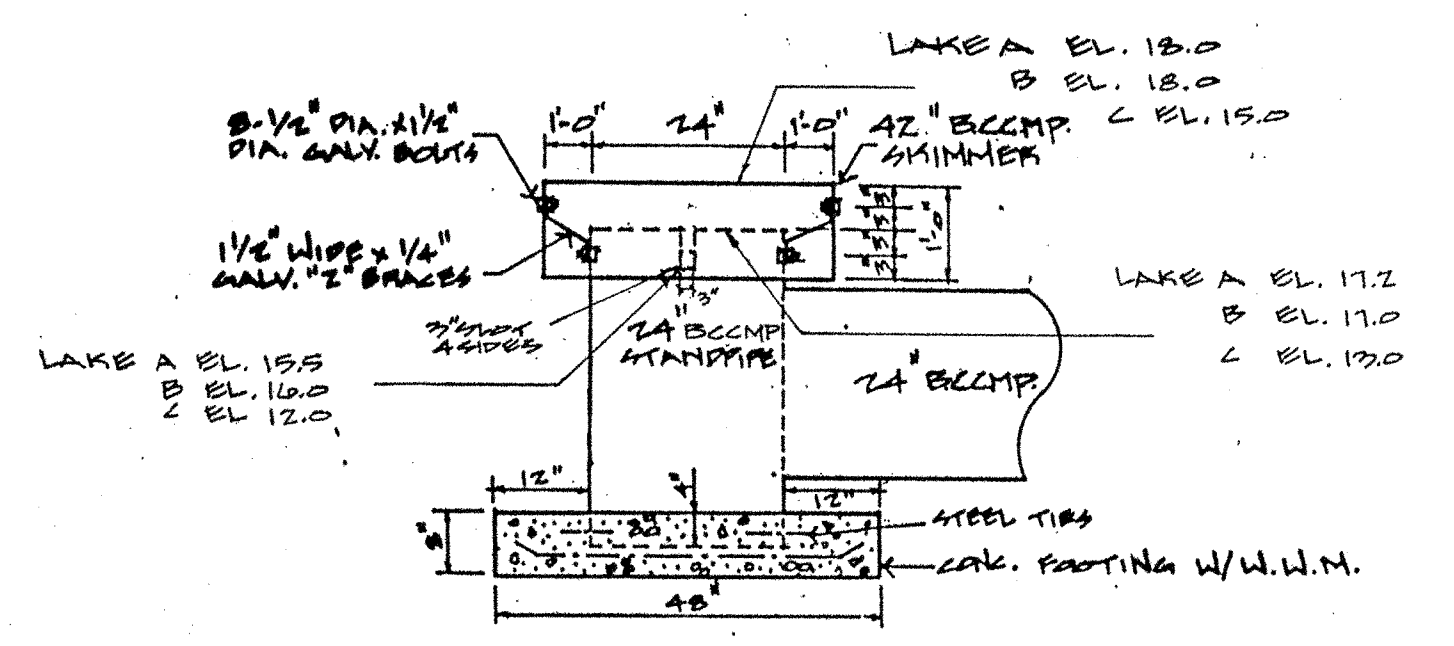


WATER MAIN OVER



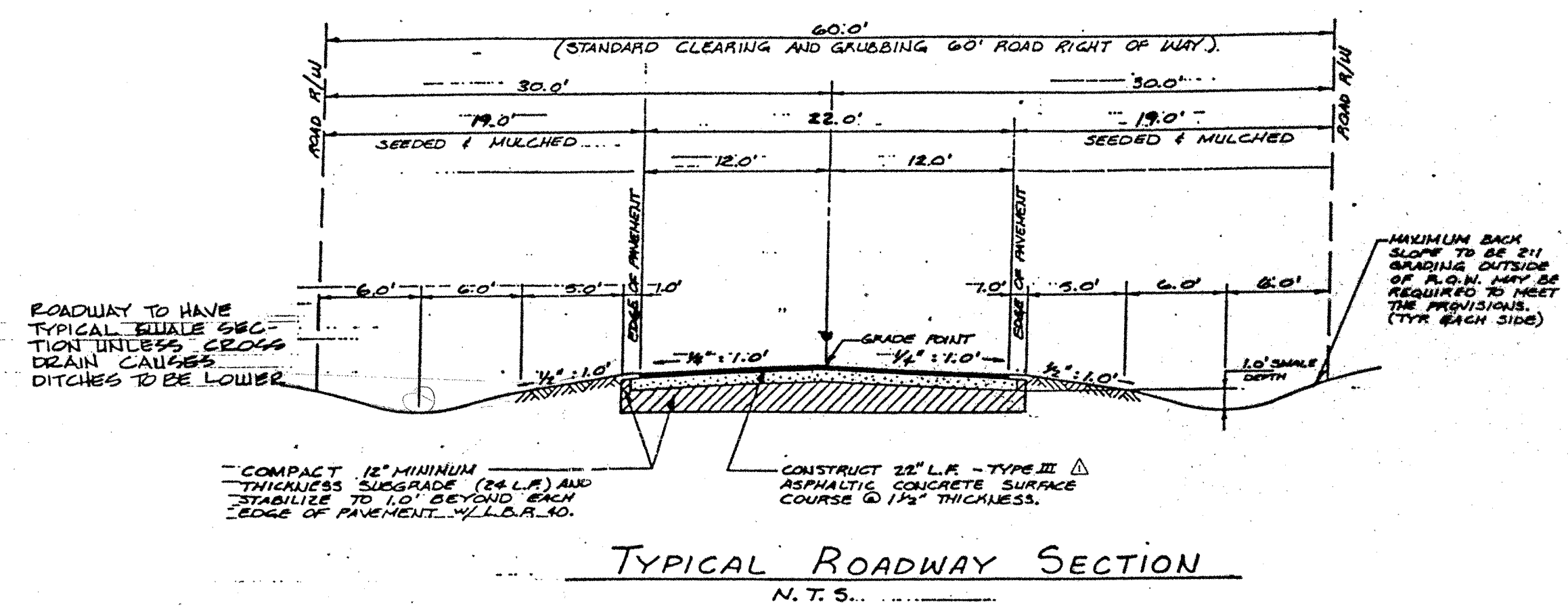
WATER MAIN UNDER

ENCASUREMENT N.T.S.



SECTION

OVERFLOW AND SKIMMER DETAIL N.T.S.



TYPICAL ROADWAY SECTION N.T.S.

Bar is one inch on original drawing. If not, adjust scale accordingly. This drawing is the property of BASKERVILLE DONOVAN ENGINEERS, INC. and is not to be reproduced in whole or in part, in any form, without the written consent of BASKERVILLE DONOVAN ENGINEERS, INC.

NO.	DATE	APPR.	REVISION
1	2/22/87		
2	3/15/87		

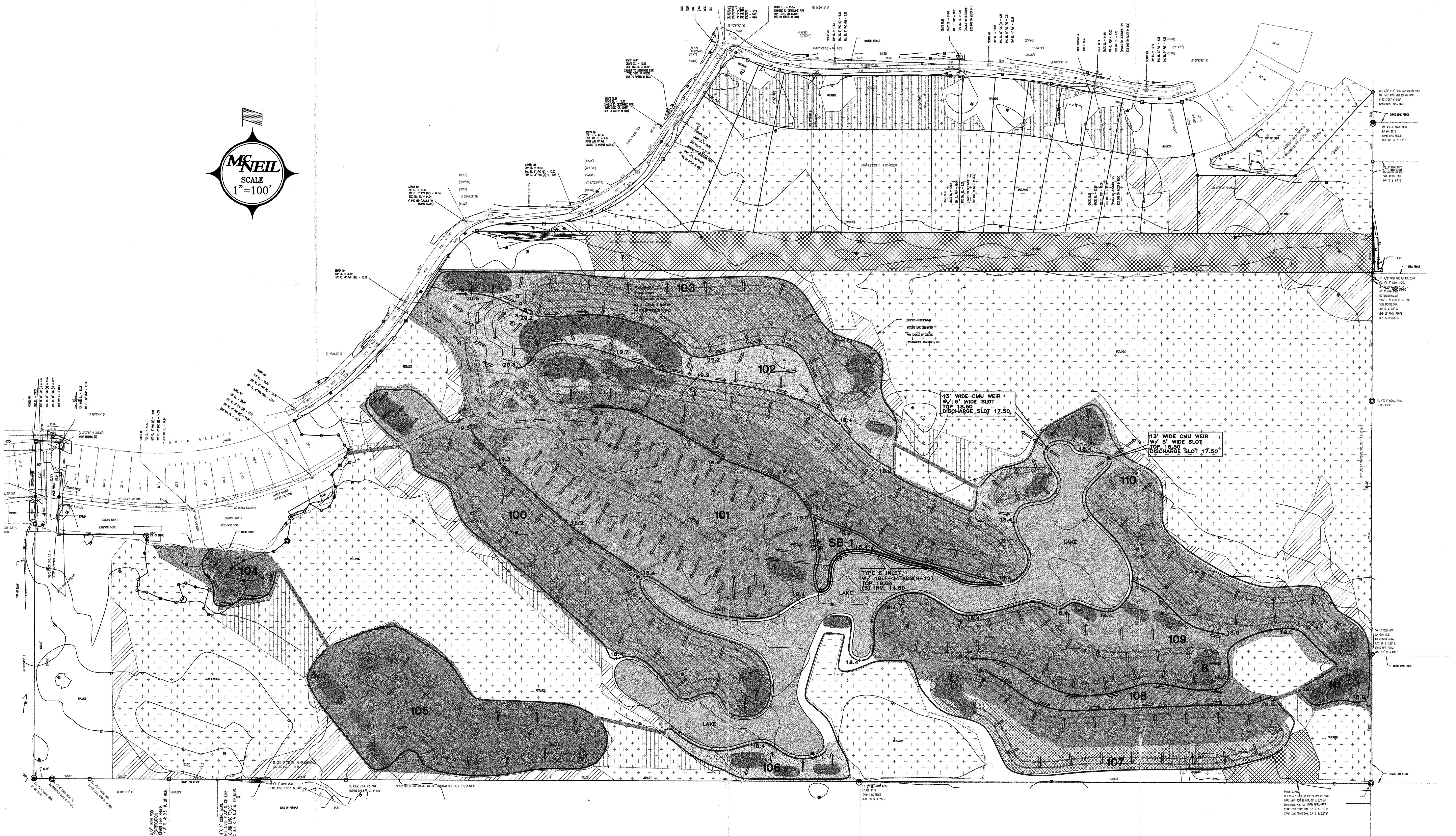
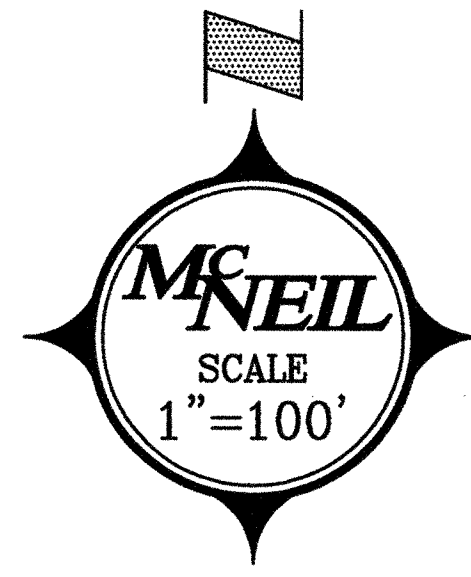
BASKERVILLE DONOVAN ENGINEERS, INC.

DESIGNED DRAWN CHECKED DATE 2/15/87

SCALE RELEASED FOR CONSTRUCTION BY DATE

MISCELLANEOUS DETAILS
EDGEWATER ESTATES
 PANAMA CITY BEACH, FL

PROJECT NO.	NO. 14
89802	OF
INDEX 5 6 0 6	14 SHE.

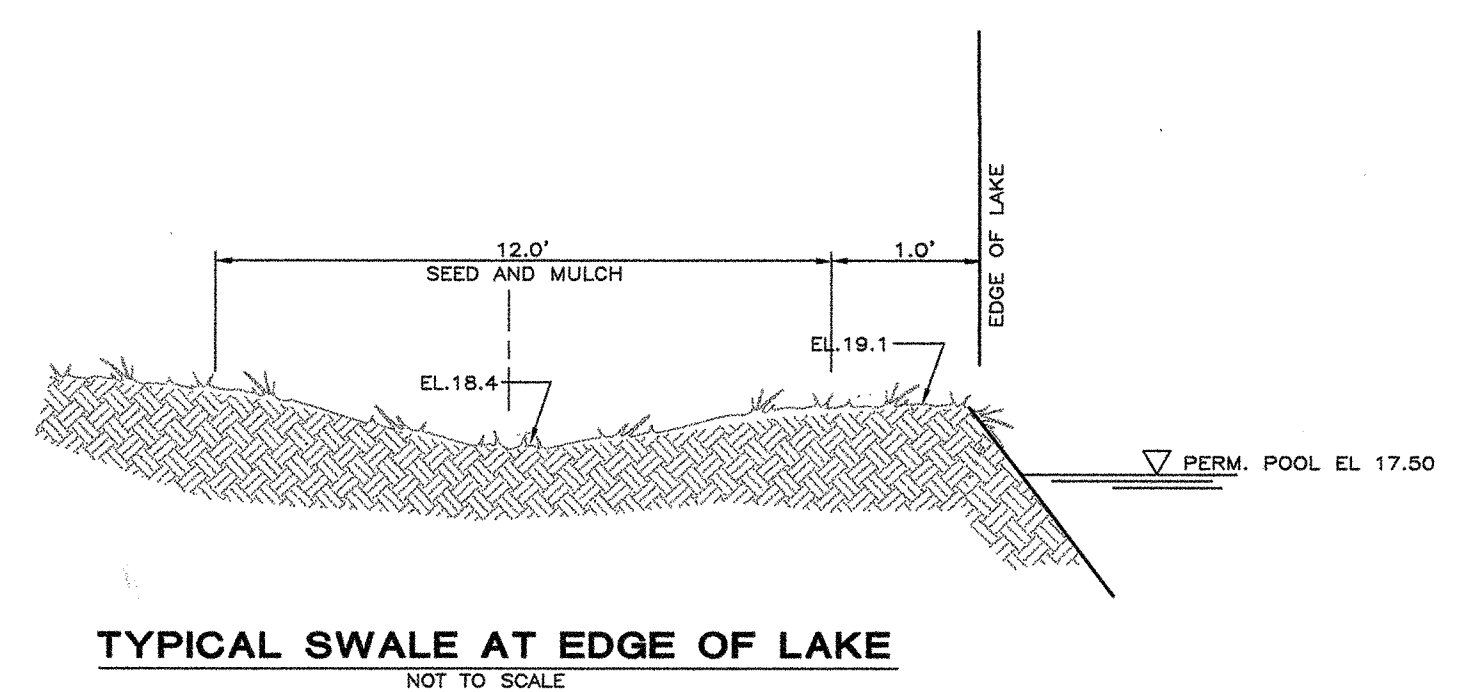
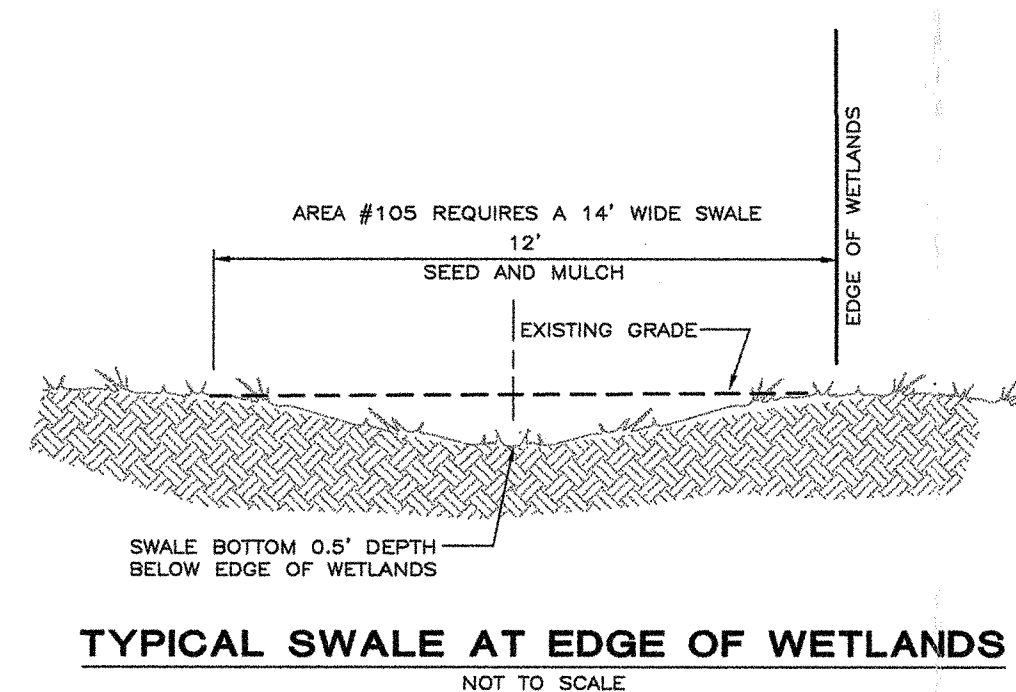
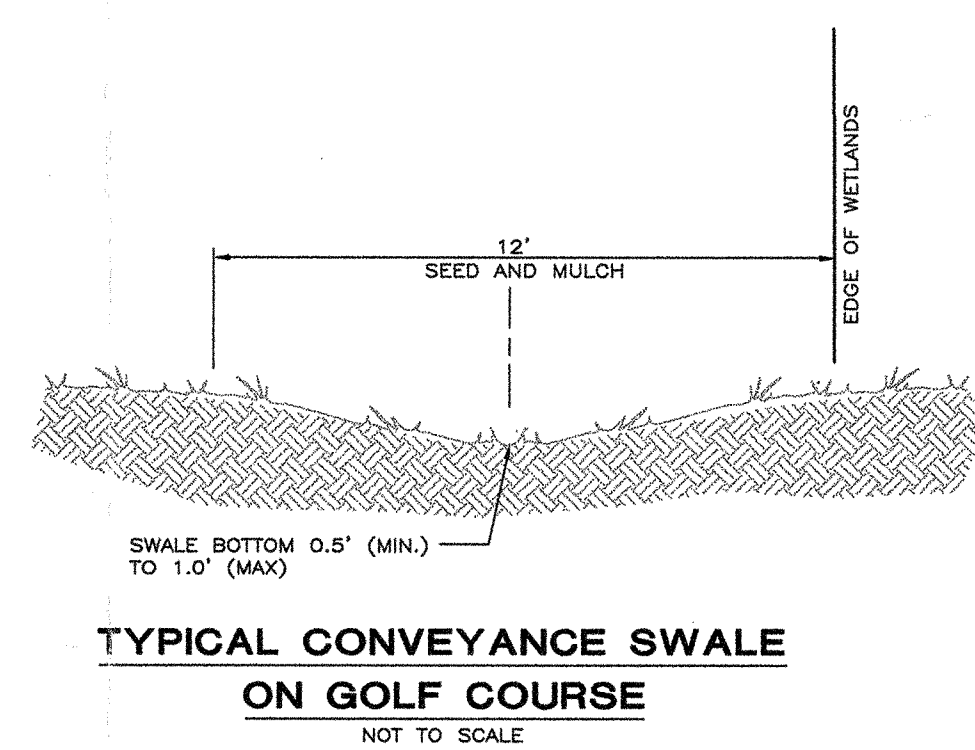


SYMBOL LEGEND

→ (STORMWATER SURFACE FLOW)

— (STORMWATER SWALE WITH 6 TO 1 SIDE SLOPES)

STORMWATER BASIN SCHEDULE					
NO.	BASIN AREA	TOP OF BANK ELEV.	SIDE SLOPE	BOTTOM ELEV.	WATERSHED AREA
SB1	0.48 AC	EL. 19.30	8:10:1	EL. 18.40	7.23 AC



PERMIT PURPOSES ONLY

STORM WATER MANAGEMENT PLAN
THE GLADES
PARCON, INC.
BAY COUNTY, FLORIDA

SCALE: _____
DESIGNED BY: _____
DRAWN BY: _____
CHECKED BY: _____
ISSUE DATE: _____
BY: 29201SW

McNEIL
ENGINEERING, INC.
Professional Engineering Consultants

416 Jenks Avenue
Panama City, Florida 32401
Phone: 850-769-5730
Fax: 850-769-5744

[Signature]
7/25/00

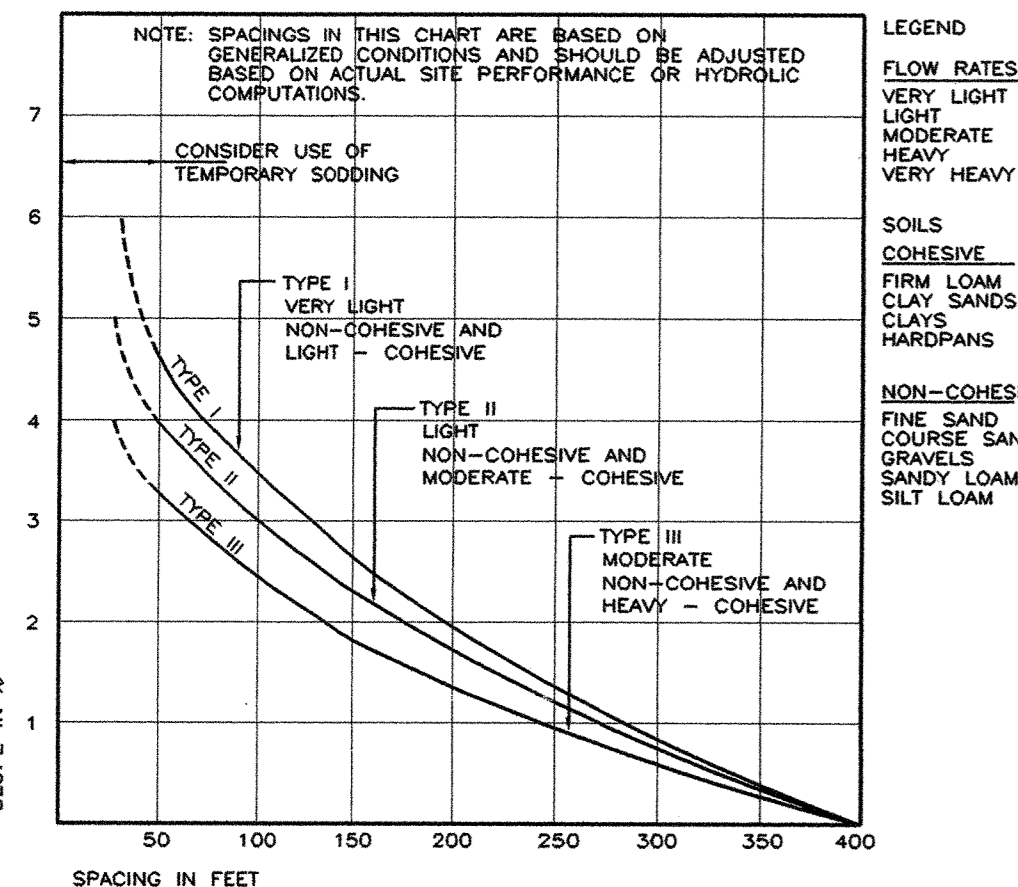
NO.	DATE	REVISIONS

SHEET NUMBER
1 of 2
29201 - THE GLADES

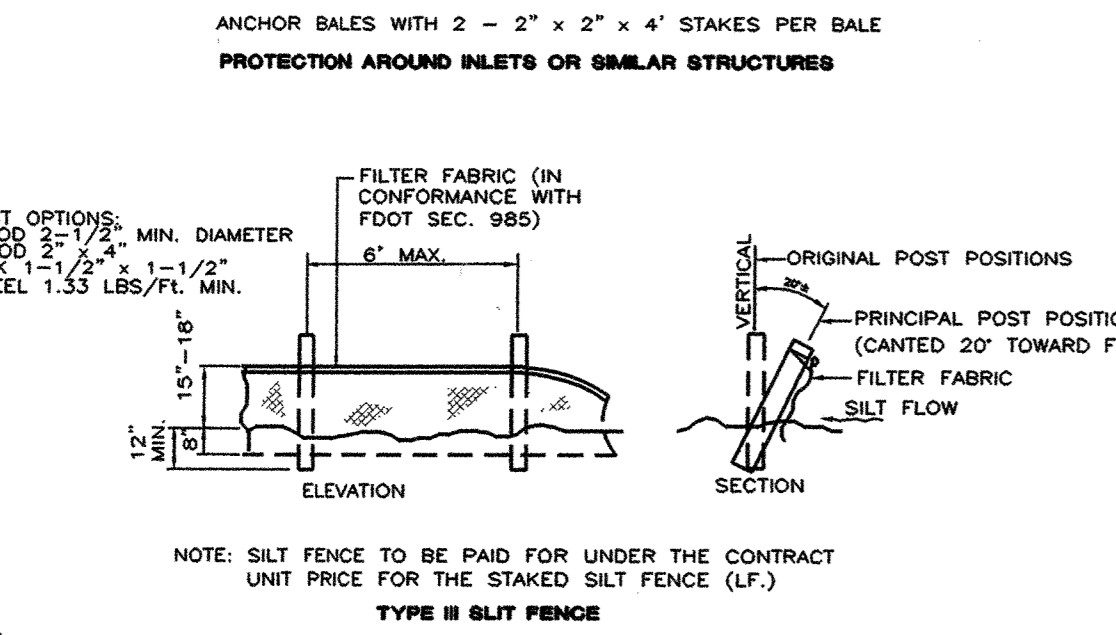
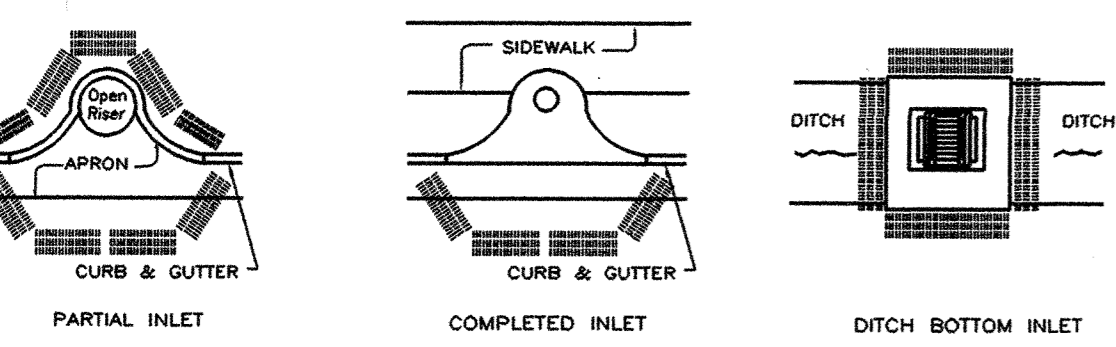
GENERAL NOTES

PREVENTION, CONTROL AND ABATEMENT OF EROSION

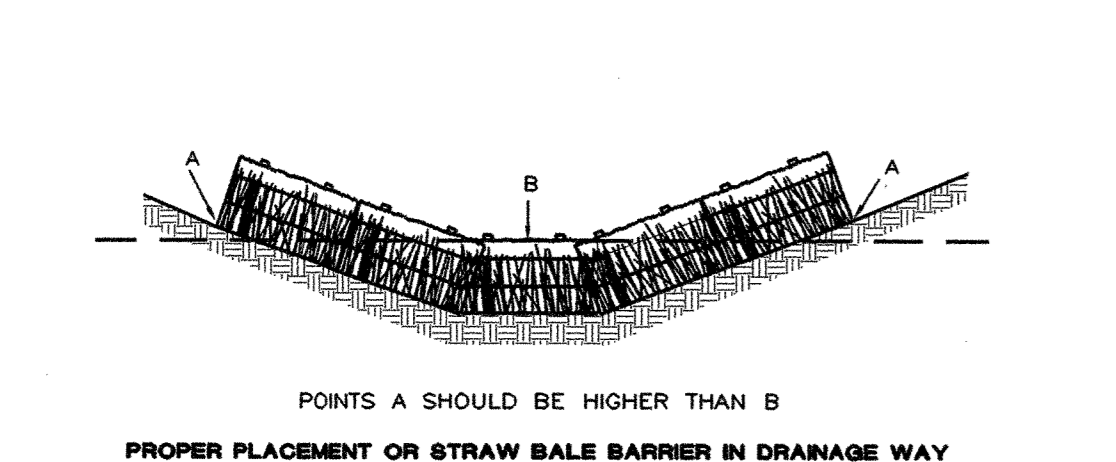
ALL ON AND OFF SITE WORK INCLUDED CONSISTS OF BUT NOT LIMITED TO THE FOLLOWING: SEEDING AND MULCHING OR SOODING FOR STABILIZATION. CONSTRUCTION OF SEDIMENT BASINS, CHECK DAMS OR FLOATING BARRIERS. PLACEMENT OF SILTATION FENCES DURING THE COURSE OF CONSTRUCTION. SILT FENCE TO BE INSTALLED AT PERIMETER OF SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES WILL BE UTILIZED THROUGHOUT THE CONSTRUCTION PHASE OF THIS PROJECT TO RESTRICT ANY TURBID RUNOFF FROM LEAVING THE CONSTRUCTION SITE.



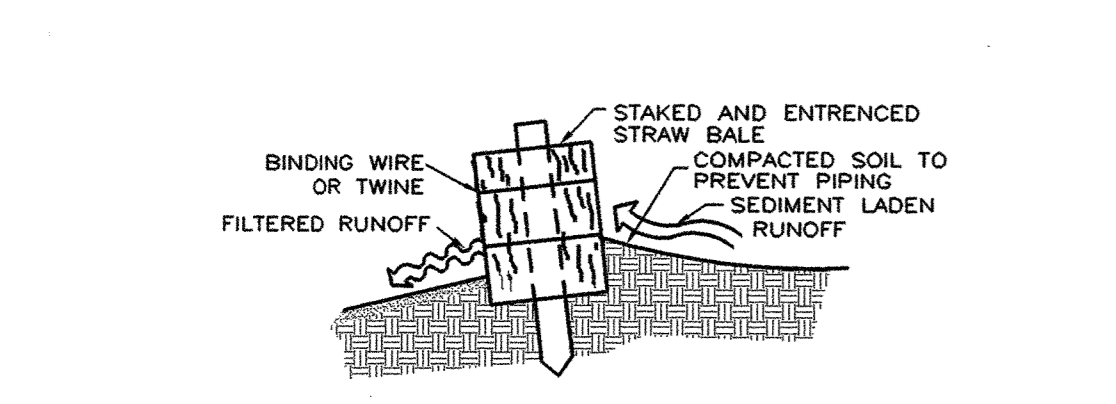
FOOT CHART 1 Baled Hay or Straw Barriers and Silt Fences - Index 002



TYPE II SILT FENCE

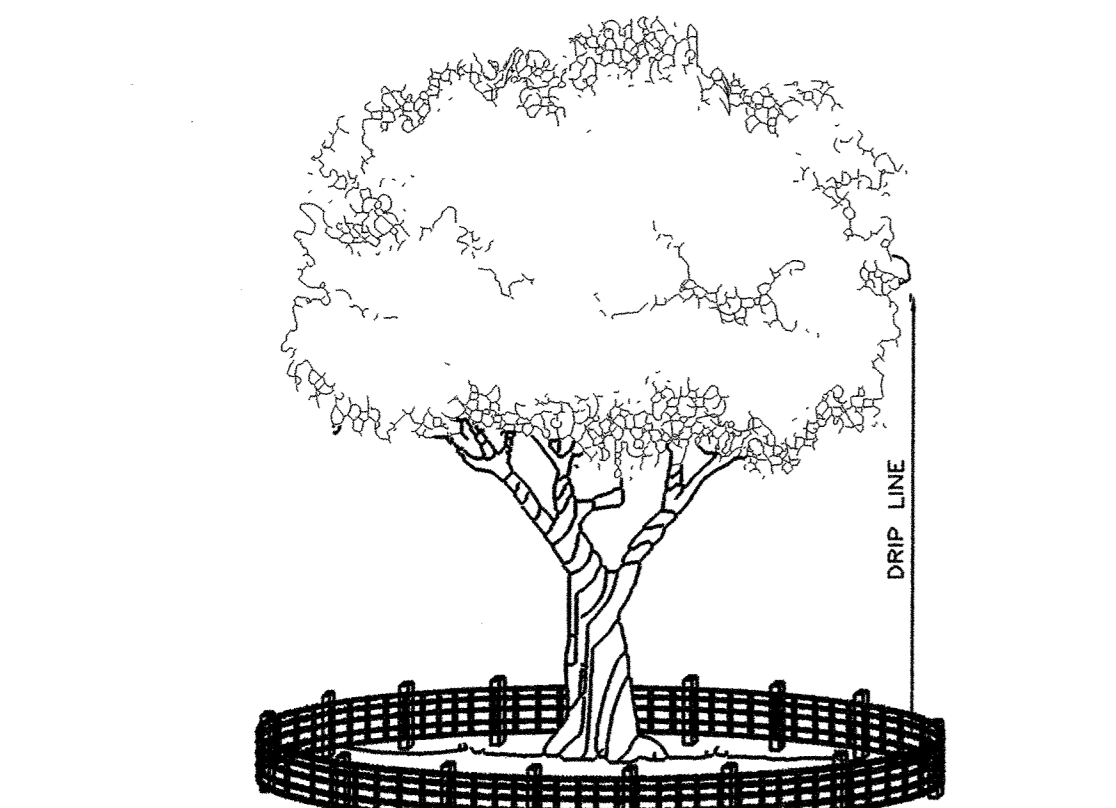


PROPER PLACEMENT OF STRAW BALE BARRIER IN DRAINAGE WAY



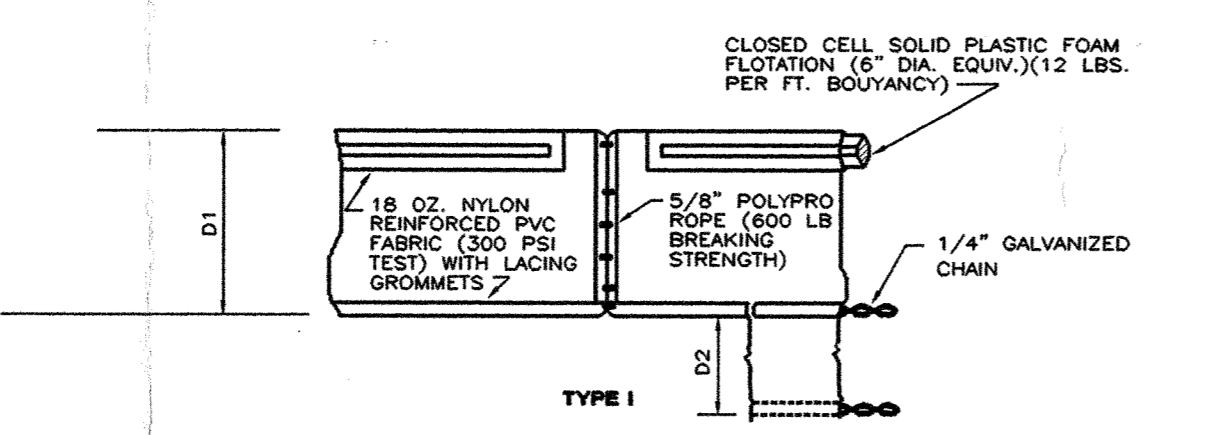
STAKED TURBIDITY BARRIER

EROSION CONTROL DETAILS

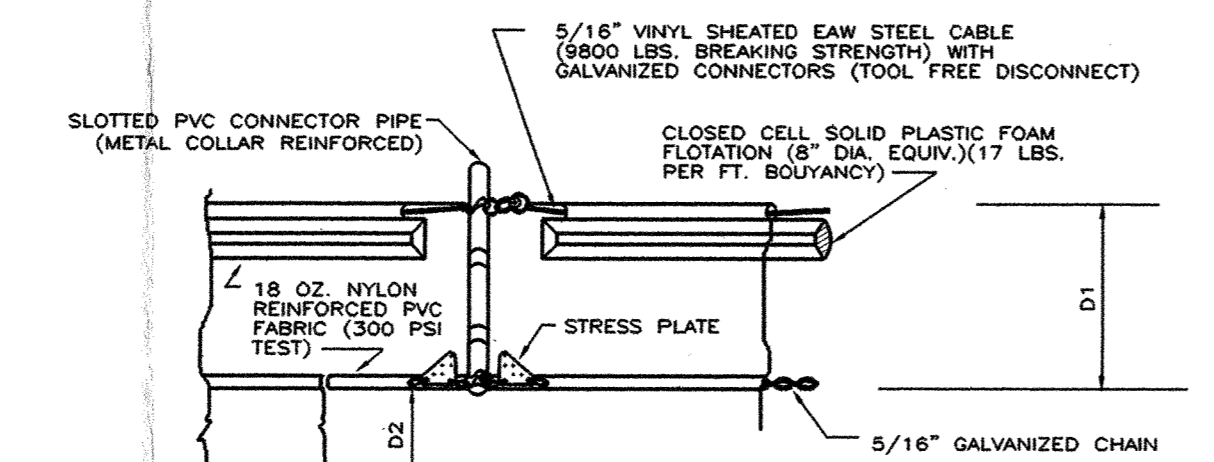


TREE BARRIER DETAIL

CORD FENCE - POSTS WITH A MINIMUM SIZE 2 INCHES SQUARE OR 2 INCHES IN DIAMETER SET SECURELY IN GROUND AND PROTRUDING AT LEAST 4 FEET ABOVE THE GROUND SHALL BE PLACED AT THE LIMITS OF CLEARING WITH GRASS CONSTRUCTION MESH FENCING RUNNING BETWEEN POSTS.



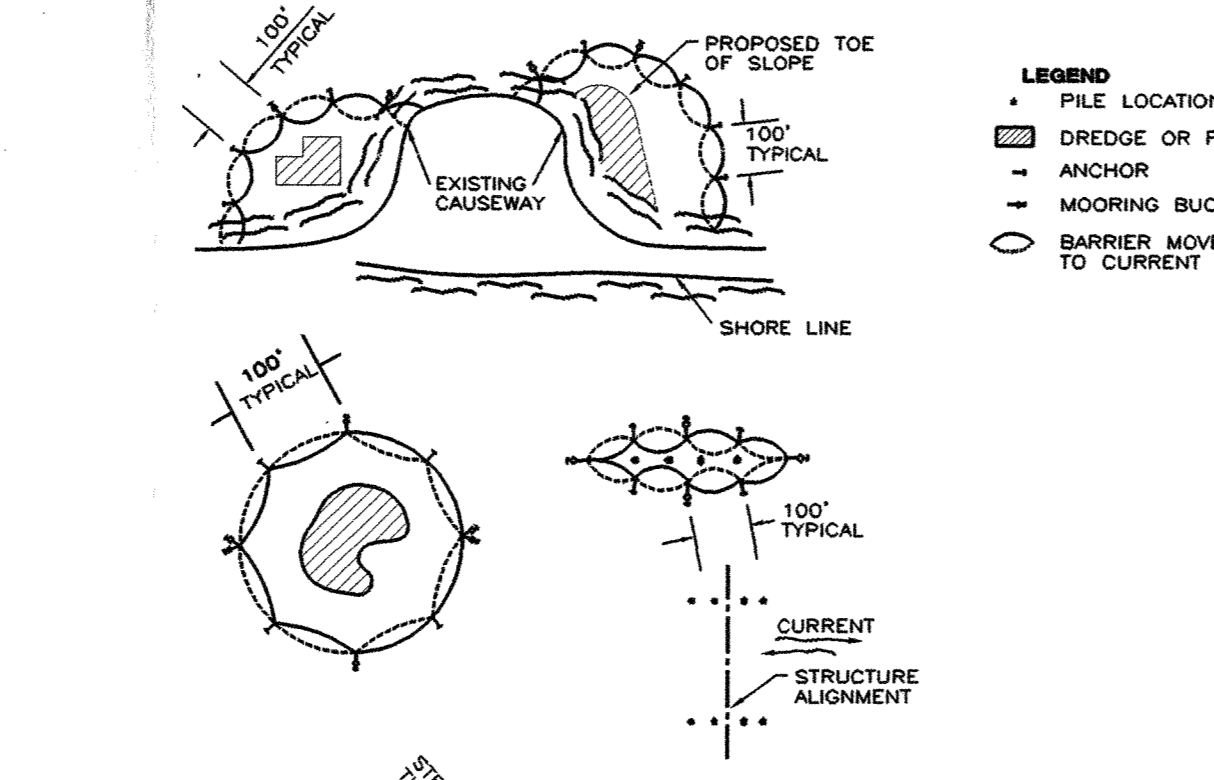
TYPE I



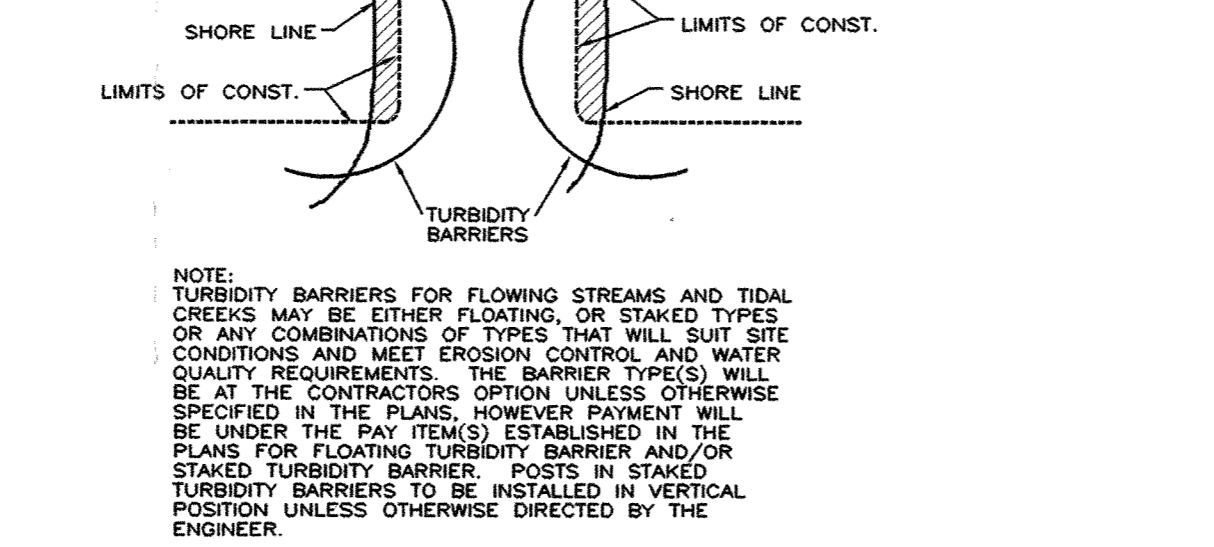
TYPE II

NOTICE: COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.

FLLOATING TURBIDITY BARRIERS



LEGEND



TURBIDITY BARRIER APPLICATIONS

NOTES: 1. TURBIDITY BARRIERS ARE TO BE USED IN ALL PERMANENT BODIES OR WATER REGARDS OR WATER DEPTH. 2. NUMBER AND SPACING OF ANCHORS DEPEND ON CURRENT VELOCITIES.



POST OPTIONS: 2" x 4" OR 2-1/2" MIN. DIA. WOOD; STEEL 1.55 LBS./FT. MIN.

GENERAL NOTES

1. FLOATING TURBIDITY BARRIERS ARE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR FLOATING TURBIDITY BARRIERS, LF.

2. STAKED TURBIDITY BARRIERS ARE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED TURBIDITY BARRIER, LF.

FDOT TURBIDITY BARRIERS

NOT TO SCALE

WORK IN RIGHTS-OF-WAYS

ALL WORK WITHIN RIGHTS-OF-WAYS SHALL BE IN STRICT ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE RESPECTIVE AGENCIES. THE CONTRACTOR SHALL COOPERATE WITH THE GOVERNING STATE AND LOCAL AGENCIES IN ALL PROCEDURES, MATERIALS AND METHODS OF CONSTRUCTION.

SITE CLEARING AND DEMOLITION

ANY WORK WITHIN STREET OR HIGHWAY RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE GOVERNMENTAL AGENCIES HAVING JURISDICTION AND SHALL NOT BEGIN UNTIL THESE GOVERNING AUTHORITIES HAVE BEEN NOTIFIED AND PROPER PERMITS OBTAINED.

KEEP ALL AREAS WITHIN THE CONSTRUCTION AREA SUFFICIENTLY DAMPENED TO PREVENT DUST FROM RISING DUE TO CONSTRUCTION. COMPLY WITH ALL ANTI-POLLUTION REGULATIONS.

TOPSOIL IS DEFINED AS FRUITFUL CLAY LOAM SURFACE SOIL FOUND IN A DEPTH OF NOT LESS THAN 4" TO 6" AND FREE FROM STONES, LIMBS, AND OTHER OBJECTS OVER 2" IN DIAMETER, AND WITHOUT WEEDS, ROOTS, AND OTHER OBJECTIONABLE MATERIAL.

TO PROTECT PERSON FROM INJURY AND TO AVOID PROPERTY DAMAGE, ADEQUATE BARRICADES, CONSTRUCTION SIGNS, TORCHES, RED LANTERNS AND GUARDS AS REQUIRED SHALL BE PLACED AND MAINTAINED DURING THE PROGRESS OF THE CONSTRUCTION WORK.

EXCAVATING, FILLING AND GRADING

ALL ON AND OFF-SITE WORK INCLUDED CONSISTS OF BUT IS NOT LIMITED TO THE FOLLOWING: EXCAVATION, PIPE BED PREPARATION AND BACKFILL FOR UNDERGROUND UTILITIES.

REMOVAL OF ALL EXCESS OR UNUSABLE MATERIAL. APPROVAL REQUIRED: ALL FILL MATERIAL SHALL BE SUBJECT TO APPROVAL OF THE GEOTECHNICAL ENGINEER.

ALL ON-SITE FILL MATERIAL SHALL BE SOIL-ROCK MIXTURE WHICH IS FREE FROM ORGANIC MATERIAL AND OTHER DELETERIOUS SUBSTANCES. IF SMALL CONTAINS NO ROCKS OR LIMBS OVER SIX (6) INCHES IN GREATEST DIMENSION AND NOT MORE THAN 10% BY DRY WEIGHT, SHALL BE LARGER THAN 2 AND 1/2 INCHES IN GREATEST DIMENSION.

ALL IMPORTED FILL MATERIAL SHALL MEET THE REQUIREMENTS OF ON-SITE FILL MATERIAL AND SHALL, IN ADDITION, BE PRECIPITANLY GRANULAR WITH A MAXIMUM PARTICLE SIZE OF TWO (2) INCHES AND A PLASTICITY INDEX OF 12 OR LESS.

ALL IMPORTED COHESIONLESS MATERIAL USED FOR TRENCH AND STRUCTURAL BACKFILL SHALL BE FREE FROM ORGANIC SUBSTANCE (LESS THAN 1% BY WEIGHT) AND OTHER DELETERIOUS MATTER. SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

PRIOR TO ALL WORK OF THIS SECTION, CONTRACTOR IS TO BECOME THOROUGHLY FAMILIAR WITH THE SITE CONDITIONS, AND ALL PORTIONS OF THE WORK, FALLING WITHIN THIS SECTION.

DO NOT ALLOW OR CAUSE ANY OF THE WORK PERFORMED OR INSTALLED TO BE COVERED UP OR ENCLOSED BY WORK OF THIS SECTION PRIOR TO ALL REQUIRED INSPECTIONS, TESTS AND APPROVALS.

AFTER THE WORK HAS BEEN COMPLETELY TESTED, INSPECTED AND APPROVED, MAKE ALL REPAIRS AND REPLACEMENTS NECESSARY TO RESTORE THE WORK TO THE CONDITION IN WHICH IT WAS FOUND AT THE TIME OF UNCOVERING, ALL AT NO ADDITIONAL COST TO THE OWNER.

FOR SETTING AND ESTABLISHING FINISH ELEVATIONS AND LINES, SECURE THE SERVICES OF A REGISTERED CIVIL ENGINEER OR LAND SURVEYOR ACCEPTABLE TO THE OWNER. CAREFULLY PRESERVE ALL DATA AND ALL INSTRUMENTS SET BY THE CIVIL ENGINEER OR LAND SURVEYOR AND IF REPLACED OR LOST IMMEDIATELY REPLACE TO THE APPROVAL OF THE OWNER AND AT NO ADDITIONAL COST TO THE OWNER.

PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SERVICES, ETC. NECESSARY AND ACCIDENTAL TO THE COMPLETION OF ALL DETAILED WORK AS SHOWN ON THE DRAWINGS AND SPECIFICATIONS.

ALL GRADED SURFACES SHALL BE SMOOTH AND UNIFORM, WITHOUT ABRUPT CHANGES IN SLOPE OR GRADE. AREAS TO BE COVERED WITH WAVES SHALL BE FINE GRADED TO THE REQUIRED ELEVATIONS AND SLOPES. FINISHED SURFACES IN ALL OTHER AREAS MAY VARY UP TO 0.1 FEET FROM THE REQUIRED ELEVATIONS.

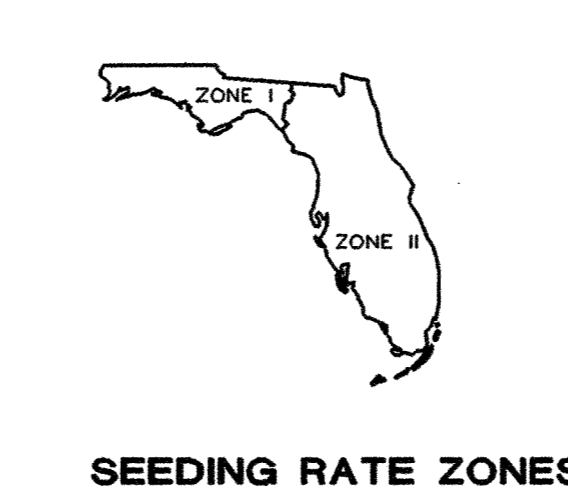
PERFORM EXCAVATION WORK IN COMPLIANCE WITH APPLICABLE REQUIREMENTS OF METHODS SHALL BE IN ACCORDANCE WITH SECTION 1702 OF THE STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, LATEST EDITION.

EMPLOY, AT CONTRACTOR'S EXPENSE, DESIGN LABORATORY TO PERFORM SOIL TESTING AND INSPECTION SERVICE FOR QUALITY CONTROL TESTING DURING EARTHWORK OPERATIONS. SUBMIT FOLLOWING REPORTS DIRECTLY TO ENGINEER AND COPIES TO CITY ENGINEERING DEPARTMENT FROM THE TESTING SERVICES, WITH COPY TO THE CONTRACTOR.

TEST REPORTS ON BORROW MATERIAL. FIELD DENSITY TEST REPORTS. ONE OPTIMUM MOISTURE-MAXIMUM DENSITY CURVE FOR EACH TYPE OF SOIL ENCOUNTERED.

WHERE REQUIRED, THE SITE SHALL BE EXCAVATED TO THE GRADES COURSE, EXCAVATED MATERIAL THAT IS SUITABLE SHALL BE USED IN THE FILL SECTIONS OF THE SITE. NO UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE. ANY EXCESS SUITABLE MATERIAL SHALL BE PLACED AT THE DIRECTION OF THE ENGINEER.

EXCAVATION FOR MANHOLES, CATCH BASINS, AND OTHER ACCESSORIES SHALL BE SUFFICIENT TO LEAVE AT LEAST 12 INCHES IN THE CLEAR BETWEEN THEIR OUTER SURFACES AND THE EMBANKMENT OF TIMBER THAT MAY BE USED TO PROTECT THEM.



SEEDING RATE ZONES

Table with columns for Seeding Rate (lbs/ac) and rows for Zone I and Zone II, with sub-columns for Coastal and Inland for each zone.

NOTE: THE SEEDING RATES SHOWN IN THIS TABLE APPLY ONLY WHEN SEED IS SPREAD BY AN APPROVED MECHANICAL SPREADER MEETING THE REQUIREMENTS OF SECTION 570 AND 577 OF THE STANDARD SPECIFICATIONS.

GENERAL NOTES: 1. SPECIAL ATTENTION IS TO BE DIRECTED TO THE CONSTRUCTION OF THE REQUIRED 1" DROP-OFF AT EDGE OF PAVEMENT.

TOPSOIL: IF THE QUANTITY OF EXISTING STORED OR EXCAVATED TOPSOIL IS INSUFFICIENT FOR PLANTING SUFFICIENT ADDITIONAL TOPSOIL SHALL BE FURNISHED.

PLACING TOPSOIL AREAS TO BE GRASSED SHALL HAVE A MINIMUM TOPSOIL OVER OF TWO INCHES. TOPSOIL SHALL NOT BE PLACED WHEN THE SUBGRADE IS EXCESSIVELY WET EXCEPT TO DRY OR IN A CONDITION OTHERWISE DETRIMENTAL TO THE PROPOSED PLANTING OR PROPER GRADING.

APPLICATION OF FERTILIZER: FERTILIZER SHALL BE APPLIED AT THE RATE OF 6 POUNDS PER 1,000 SQUARE FEET AND SHALL BE THOROUGHLY INCORPORATED INTO THE TOP THREE TO FOUR INCHES OF SOIL.

SEEDS SHALL BE APPLIED AT THE FOLLOWING RATE: BERMUDA 6 LBS./1000 SQ.FT.

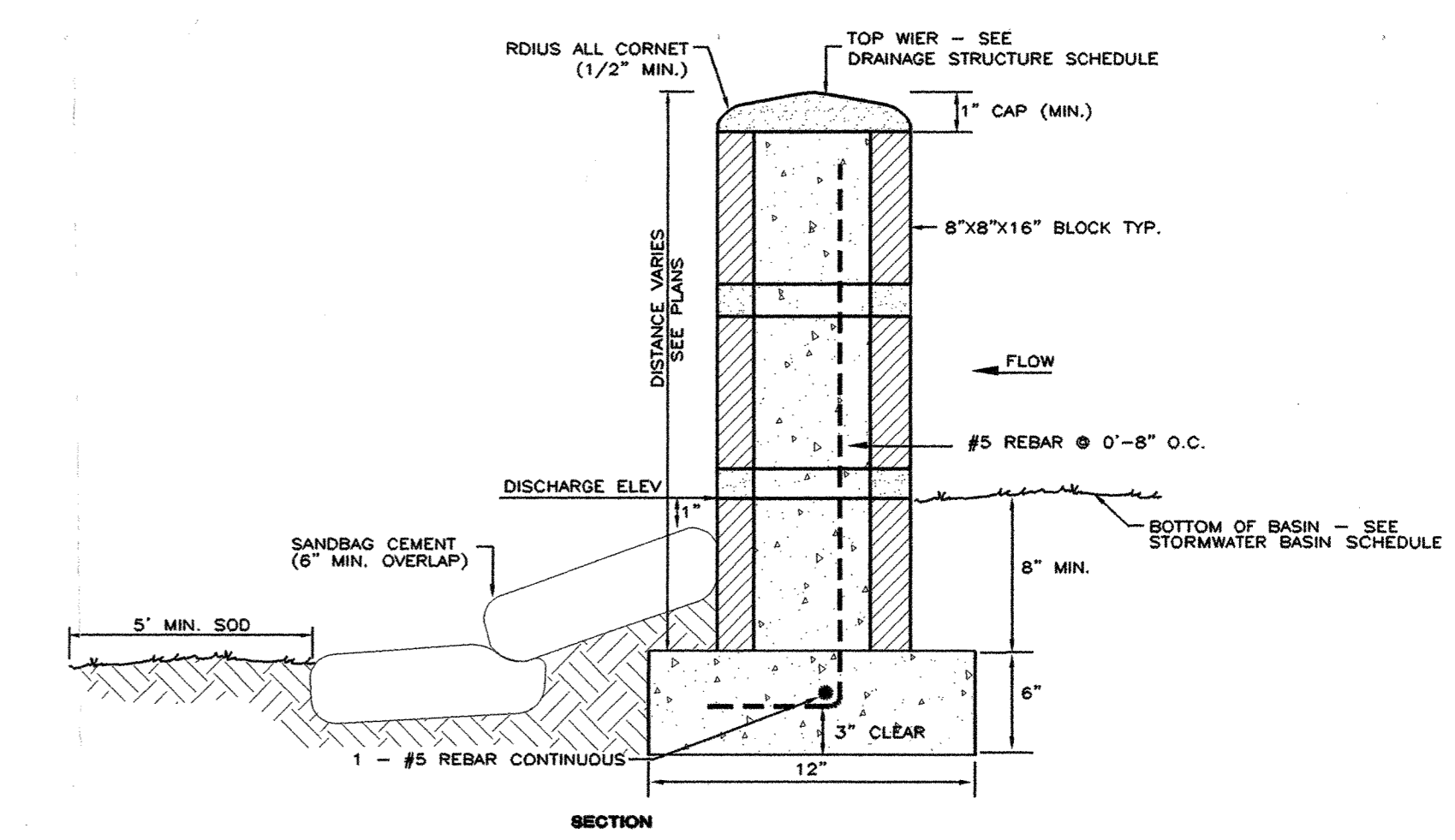
SEEDS ARE TO BE MULCHED AT THE RATE OF NOT LESS THAN 1-1/2" LOOSE MEASUREMENT OVER ALL SEEDED AREAS. SPREAD BY HAND, BLOWER, OR OTHER SUITABLE EQUIPMENT. MULCH SHALL BE CUT INTO THE SOIL WITH EQUIPMENT CAPABLE OF CUTTING THE MULCH UNIFORMLY INTO THE SOIL. MULCHING SHALL BE DONE WITHIN 24 HOURS OF THE TIME SEEDING IS COMPLETED.

AFTER SEEDING AND MULCHING, A CULTIVATOR, TRAFFIC ROLLER, OR OTHER SUITABLE EQUIPMENT SHALL BE USED FOR ROLLING THE GRASSED AREAS. AREAS SHALL THEN BE WATERED WITHIN A FINE SPRAY.

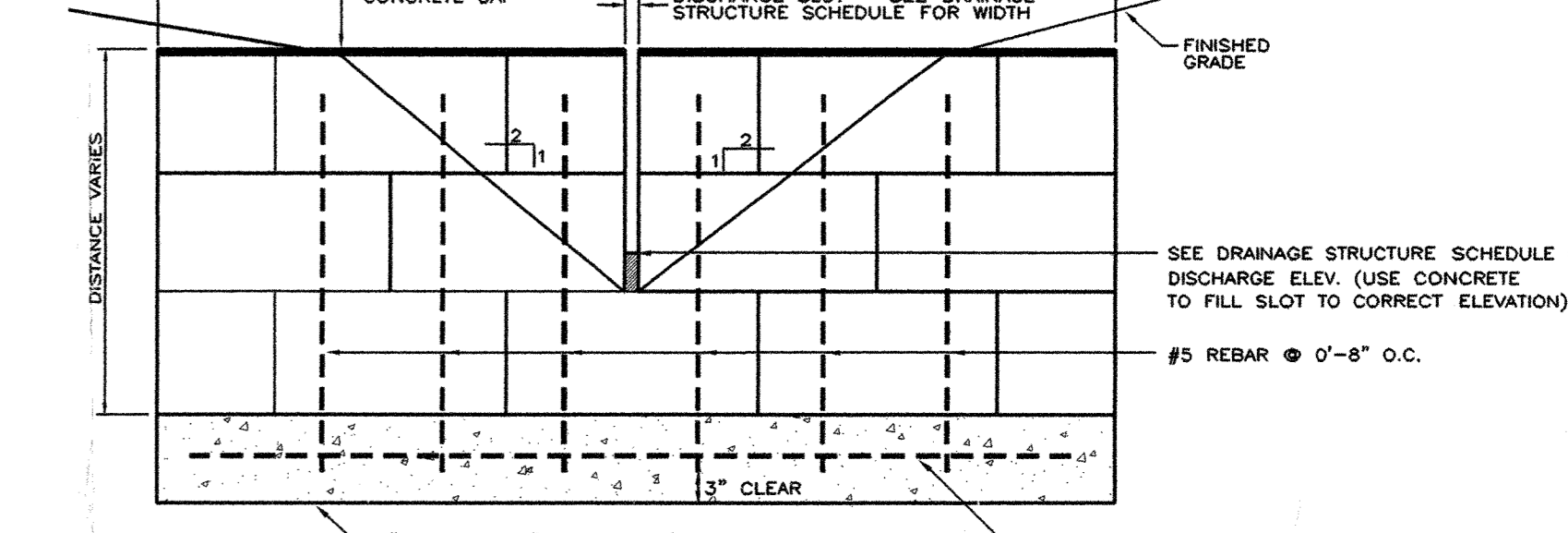
ALL AREAS TO BE GRASSED SHALL BE PROTECTED AGAINST EROSION AT ALL TIMES. FOR PROTECTION DURING WINTER MONTHS (NOVEMBER 1ST THRU MARCH 31ST) ITALIAN GRASS SEEDS SHALL BE PLANTED AT A RATE OF FOUR POUNDS PER 1,000 SQUARE FEET ON ALL AREAS WHICH ARE NOT PROTECTED BY PERMANENT GRASS.

SEEDING DETAIL

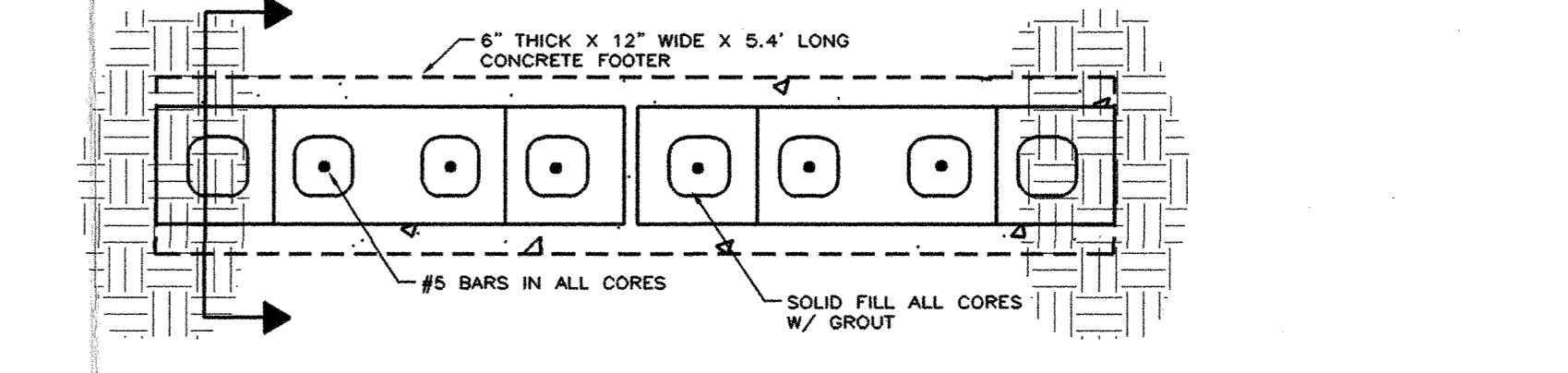
NOT TO SCALE



SECTION



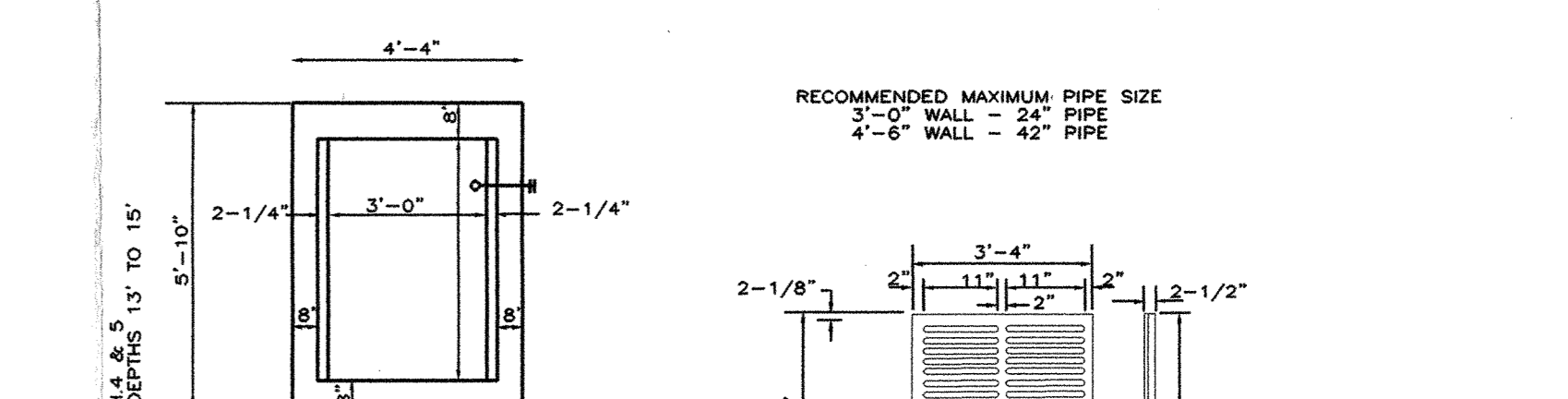
FRONT VIEW



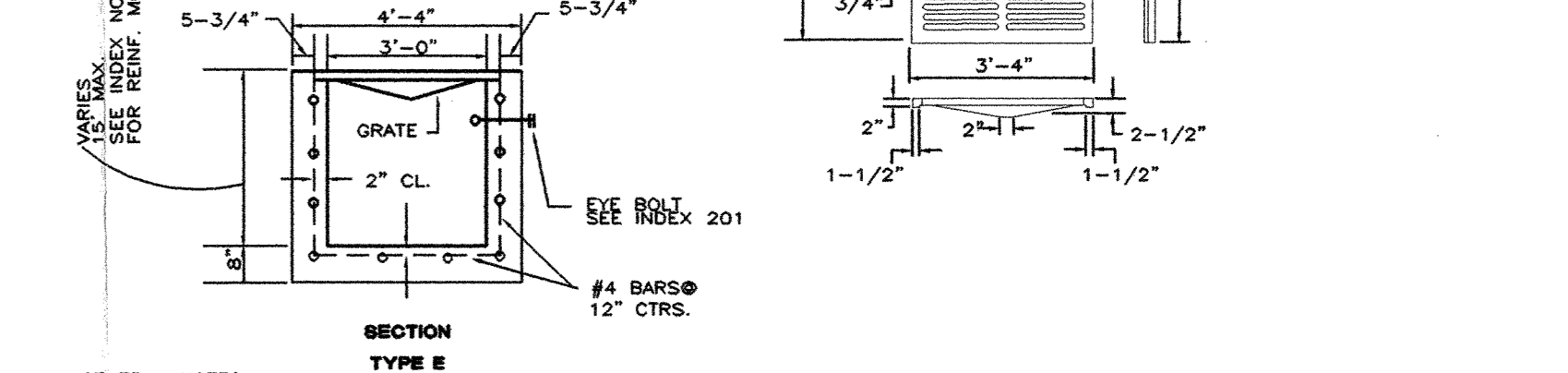
PLAN VIEW

WIER DETAIL

NOT TO SCALE



RECOMMENDED MAXIMUM PIPE SIZE



SECTION TYPE II

GENERAL NOTES: 1. THESE INLETS ARE SUITABLE FOR BICYCLE AND PEDESTRIAN AREAS AND ARE TO BE USED IN DITCHES, MEDIANS AND OTHER AREAS SUBJECT TO FREQUENT TRAFFIC LOADINGS BUT ARE NOT TO BE PLACED IN AREAS SUBJECT TO ANY HEAVY WHEEL LOADS.

2. INLETS SUBJECT TO MINIMAL DEBRIS SHOULD BE CONSTRUCTED WITHOUT SLOTS. WHERE DEBRIS IS A PROBLEM, INLETS SHOULD BE CONSTRUCTED WITH SLOTS. SLOTTED INLETS LOCATED WITHIN TRAVEL LANE SHOULD BE CONSTRUCTED WITH TRAVELER PROTECTIVE SLOTS. TRAVELER PROTECTIVE SLOTS SHALL BE CONSTRUCTED AT EITHER OR BOTH ENDS AS SHOWN ON PLANS.

3. STEEL GRATES ARE TO BE USED ON ALL INLETS WHERE BICYCLE TRAFFIC IS ANTICIPATED. STEEL GRATES ARE TO BE USED ON ALL INLETS WITH TRAVELER PROTECTIVE SLOTS. EITHER CAST IRON OR STEEL GRATES MAY BE USED ON INLETS WITHOUT SLOTS WHERE BICYCLE TRAFFIC IS NOT ANTICIPATED. EITHER CAST IRON OR STEEL GRATES MAY BE USED ON ALL INLETS WITH TRAVELER PROTECTIVE SLOTS SUBJECT TO THE SELECTION DESCRIBED ABOVE. GRATE WITH TRAVELER PROTECTIVE SLOTS SHALL BE CONSTRUCTED WITH TRAVELER PROTECTIVE SLOTS NOT DIPPED GALVANIZED AFTER FABRICATION, OR THE CAST IRON GRATE MAY BE USED, UNLESS THE PLANS SPECULATE THE PARTICULAR TYPE.

4. RECOMMENDED MAXIMUM PIPE SIZES SHOWN ARE FOR CONCRETE PIPE. PIPE SIZES LARGER THAN THOSE RECOMMENDED MUST BE CHECKED FOR FIT.

5. ALL EXPOSED CORNERS AND EDGES OF CONCRETE ARE TO BE CHAMFERED 3/4".

6. PAVEMENT TO BE USED ON INLETS WITHOUT SLOTS AND INLETS WITH NON-TRAVELER PROTECTIVE SLOTS ONLY WHEN CALLED FOR IN THE PLANS, BUT REQUIRED ON ALL TRAVELER PROTECTIVE SLOTS. COST TO BE INCLUDED IN CONTRACT UNIT PRICE FOR INLETS. QUANTITIES SHOWN ARE FOR INFORMATION ONLY.

7. TRAVELER PROTECTIVE SLOTS CONSTRUCTED IN EXISTING INLETS SHALL BE PAID FOR AS INLETS PARTIAL, AND SHALL INCLUDE THE COST FOR SLOT OPENINGS, PAVING AND ANY REQUIRED REPLACEMENT GRATES.

8. SOODING TO BE USED ON ALL INLETS NOT LOCATED IN PAVED AREAS AND PAID FOR UNDER CONTRACT UNIT PRICE FOR SOODING, ST.

9. FOR SUPPLEMENTARY DETAILS SEE INDEX NO. 201.

FDOT INLET DETAILS

NOT TO SCALE

CONSTRUCTION DETAILS THE GLADES PARCON, INC. BAY COUNTY, FLORIDA

McNEIL ENGINEERING, INC. 416 Jerka Avenue Panama City, Florida 32401 Phone: 850-763-6730 Fax: 850-763-6744 Professional Engineering Consultants

CIVIL CONSTRUCTION PLANS FOR:

PANAMA CITY BEACH STORMWATER IMPROVEMENTS PHASE I SOUTH GLADES TRAIL

PREPARED FOR:
CITY OF PANAMA CITY BEACH
 BAY COUNTY, FLORIDA

PREPARED BY:

RELEASED FOR
CONSTRUCTION

PANAMA CITY BEACH CITY COUNCIL

Gayle F. Oberst	Mayor
Ken Nelson	Council Member
John Reichard	Council Member
Rick Russell	Council Member
Josie B. Strange	Council Member
Richard Jackson	City Manager



Camp Dresser & McKee Inc.
701 Jenks Avenue
Panama City, FL 32401
Tel: (850) 785-5999

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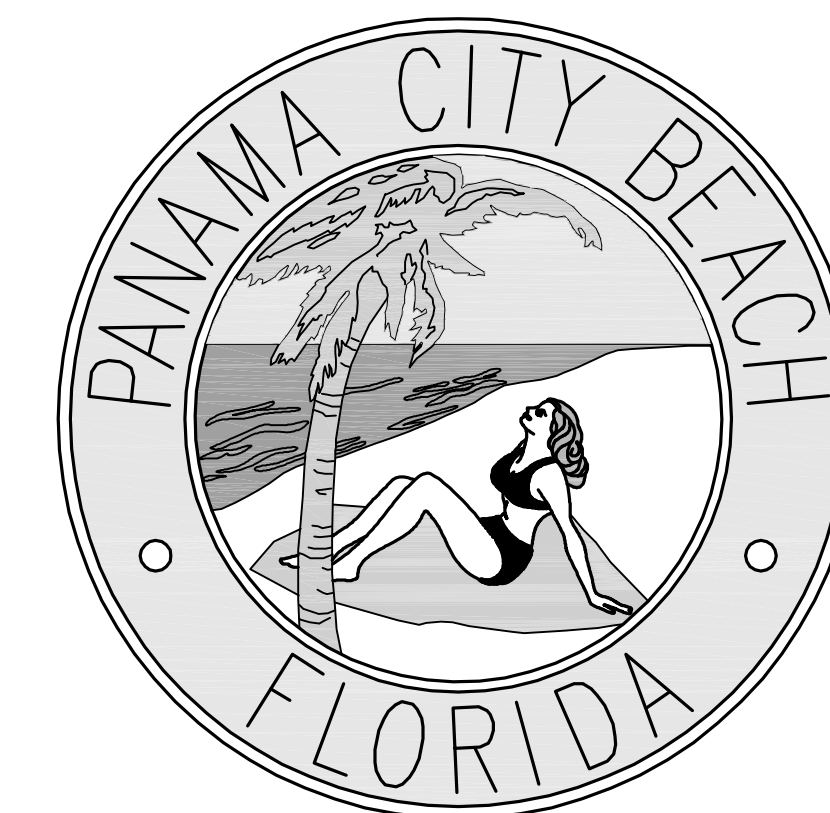
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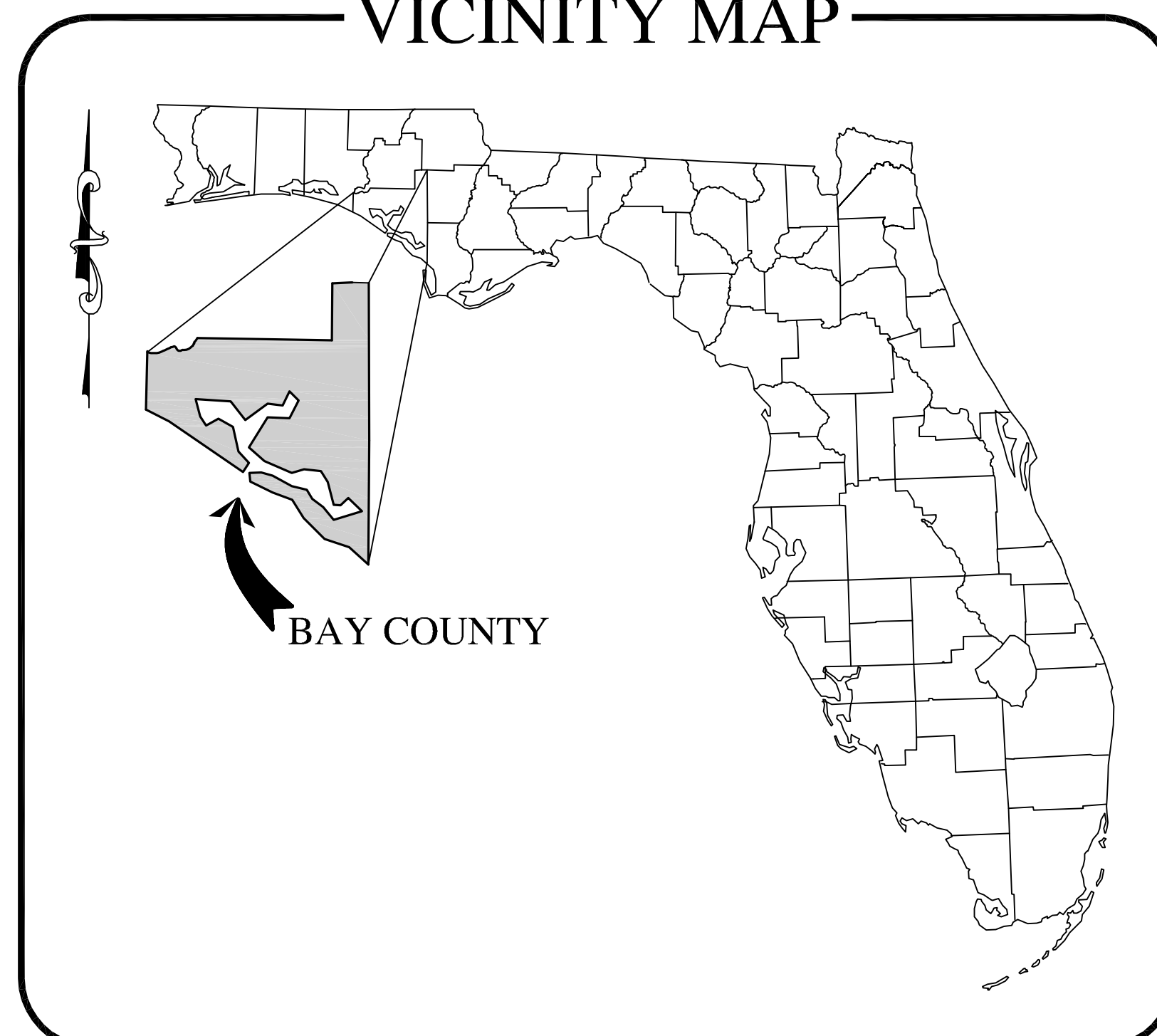
324 MARINA DRIVE 260 ABERDEEN PARKWAY 877 CR 393 NORTH 16400 NW MAIN ST 20 E WASHINGTON ST 20044 CENTRAL AVE EAST 36 JASPER THOMAS RD
 PORT ST. JOE, FL 32468 PANAMA CITY, FL 32405 SANTA ROSA BEACH, FL 32469 BRISTOL, FL 32307 QUINCY, FL 32251 26 CUMFORTOWN, FL 32424 CRANFORDVILLE, FL 32327
 (850) 227-7200 (850) 522-6644 (850) 267-4759 (850) 643-2771 (850) 674-1731 (850) 674-3300 (850) 274-8666

PROJECT NUMBER 208.068
JANUARY 2012

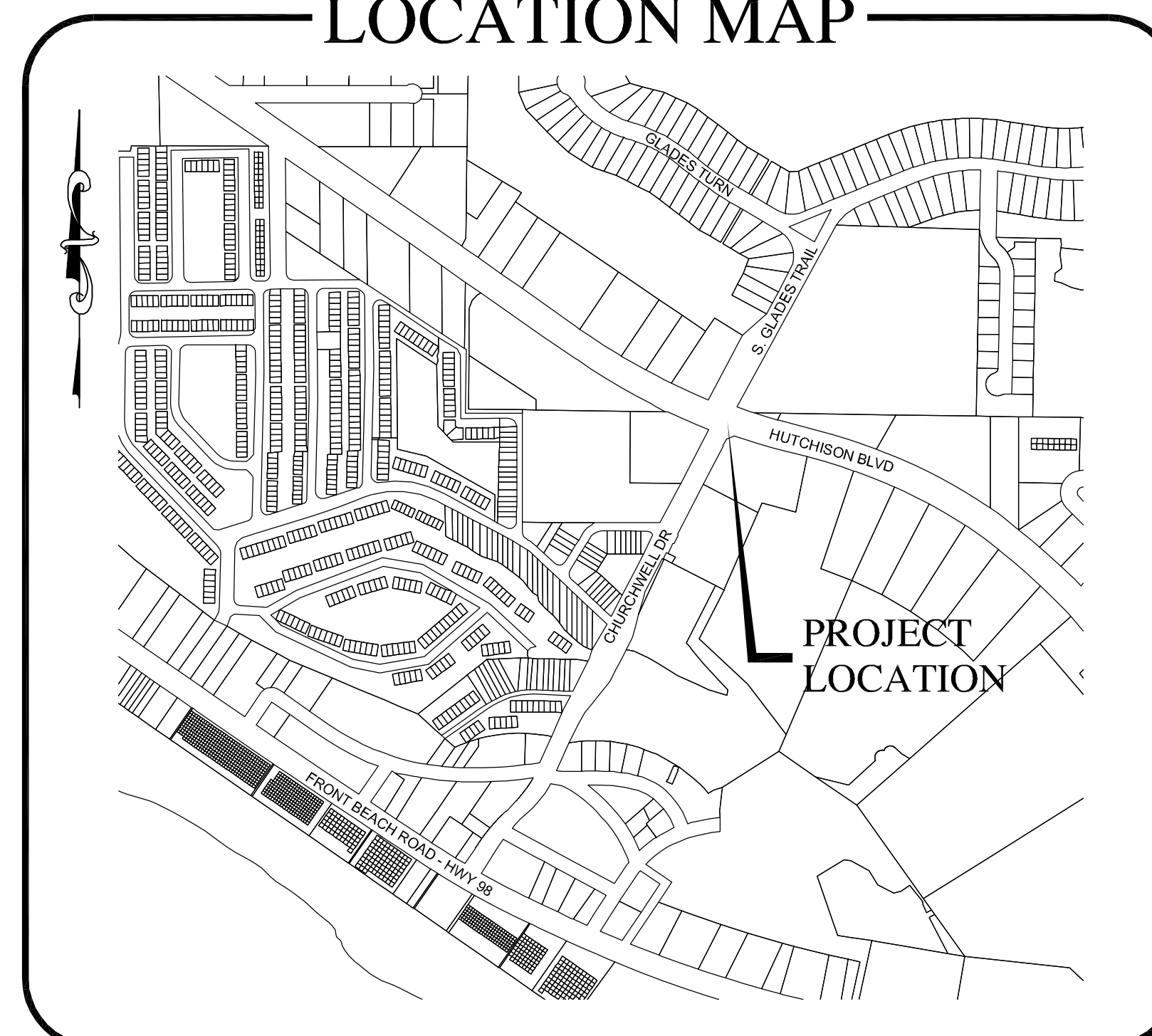
ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH 2010 FDOT
STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
DIVISION II & III AND FDOT 2010 DESIGN STANDARDS



VICINITY MAP



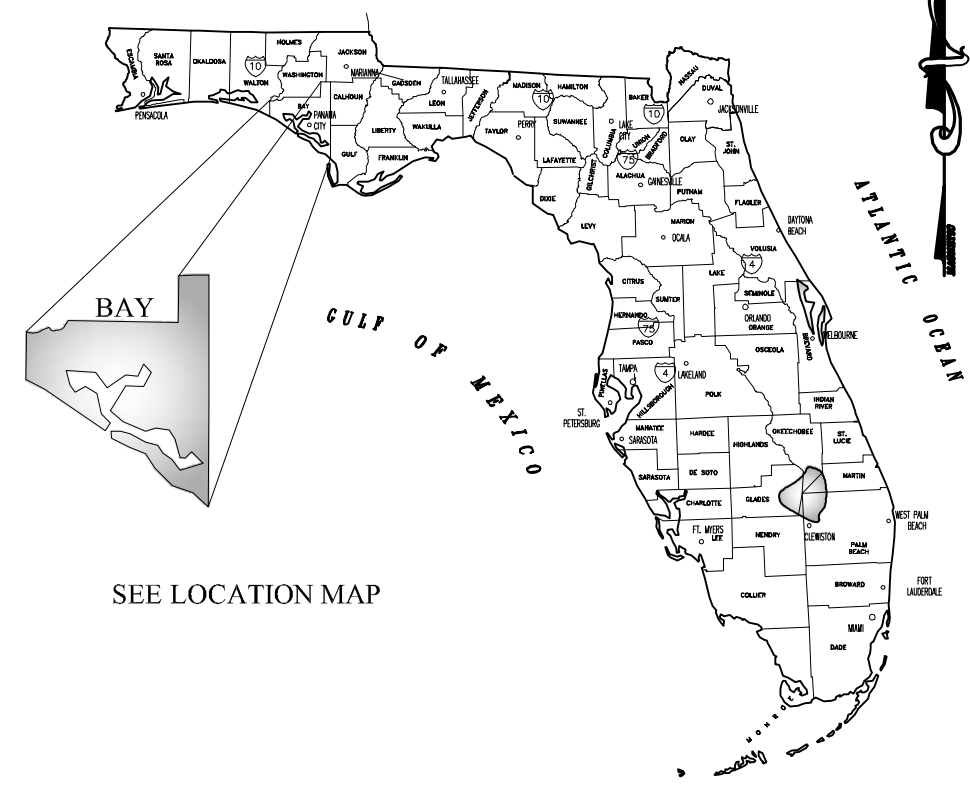
LOCATION MAP



DRAWING INDEX

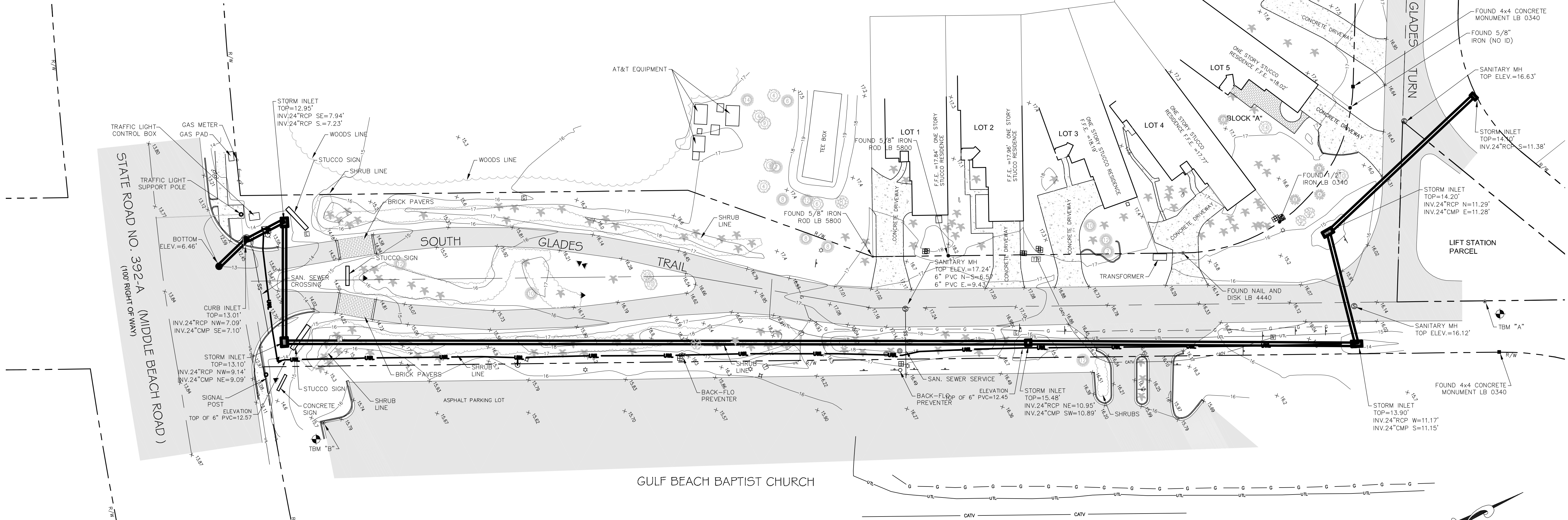
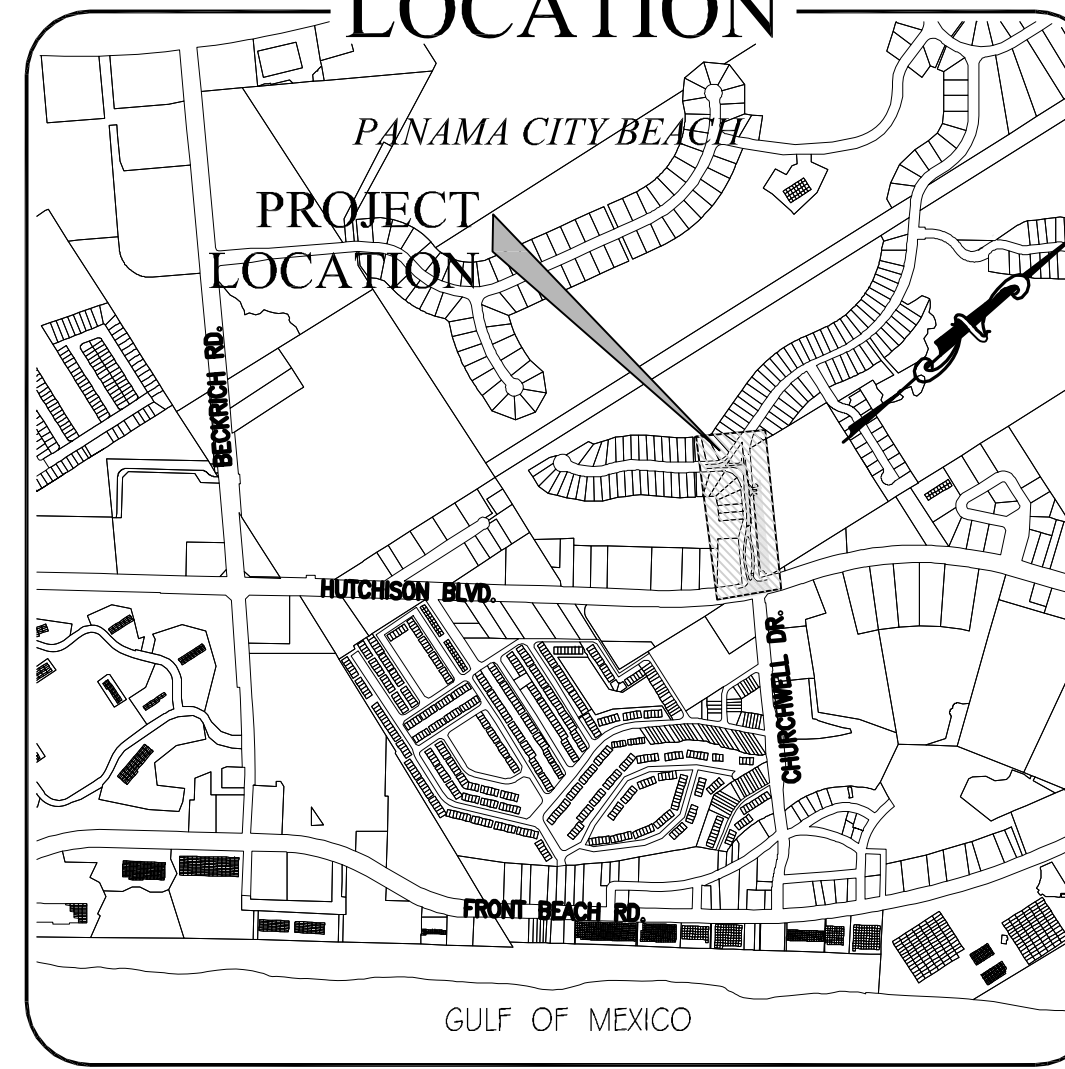
TITLE	NO.
TOPOGRAPHIC SURVEY	1 OF 1
DEMOLITION PLAN	C1
PLAN AND PROFILE	C2
MISCELLANEOUS DETAILS	D1
EROSION CONTROL, STORMWATER POLLUTION PREVENTION PLAN	D2

VICINITY MAP



SEE LOCATION MAP

LOCATION



GULF BEACH BAPTIST CHURCH

SYMBOLS & ABBREVIATIONS:

- | | |
|---|---|
| No. = NUMBER | ⊙ = STUBOUT |
| # = NUMBER | ✉ = MAILBOX |
| L.B. = LICENSED BUSINESS | ⚓ = TEMPORARY BENCHMARK |
| L.S. = LICENSED SURVEYOR | → = GUY ANCHOR |
| P.S.M. = PROFESSIONAL SURVEYOR AND MAPPER | ⊕ = UTILITY POLE |
| INV. = INVERT | ⊙ = STORM SEWER MANHOLE |
| ELEV. = ELEVATION | ⊙ = TELEPHONE MANHOLE |
| O.R. = OFFICIAL RECORDS | ⊠ = ELECTRIC BOX |
| F.F.E. = FINISHED FLOOR ELEVATION | ⊠ = TELEPHONE BOX |
| ± = MORE OR LESS | ⊠ = TELEVISION BOX |
| PVC = POLYVINYL CHLORIDE | ⊠ = UNDERGROUND GAS LINE MARKER SIGN |
| C.M.P. = CORRUGATED METAL PIPE | ⊠ = SPOT ELEVATION AT "X" |
| C.P.P. = CORRUGATED PLASTIC PIPE | —10'— = CONTOUR ELEVATION AT 1' INTERVALS |
| R.C.P. = REINFORCED CONCRETE PIPE | —U— = UNDERGROUND TELEPHONE |
| R/W = RIGHT OF WAY | ⊙ = EXISTING PINE TREE (DIAMETER SHOWN IN INCHES) |
| CORP. = CORPORATION | ⊙ = EXISTING OAK TREE (DIAMETER SHOWN IN INCHES) |
| (TYP.) = TYPICAL | ⊙ = EXISTING CREPE MYRTLE (DIAMETER SHOWN IN INCHES) |
| A/C = AIR CONDITIONER | ⊙ = EXISTING MAGNOLIA TREE (DIAMETER SHOWN IN INCHES) |
| ID. = IDENTIFICATION | ⊙ = EXISTING TREE UN-KNOWN (DIAMETER SHOWN IN INCHES) |
| INC. = INCORPORATED | ★ = EXISTING PALM TREE |
| DWG. = DRAWING | ■ = EXISTING ASPHALT PAVEMENT |
| OHU = OVERHEAD UTILITIES | ■ = EXISTING CONCRETE |
| ⊙ = LAMP POLE | ■ = EXISTING BRICK |
| ⊙ = TRAFFIC SIGN | |
| ⊙ = WATER VALVE | |
| ⊙ = WATER METER | |
| ⊙ = FIRE HYDRANT | |
| ⊙ = IRRIGATION CONTROL VALVE | |
| ⊙ = SANITARY SEWER MANHOLE | |
| ⊙ = LANDSCAPE LIGHT | |
| —G— = UNDERGROUND GAS LINE | |
| —W— = UNDERGROUND WATER LINE | |
| —CATV— = UNDERGROUND CABLE TV | |

SOURCE BENCHMARK:

FOUND SURVEY DISK SET IN TOP OF CONCRETE MONUMENT - STAMPING: 46 76 B19 - ELEVATION = 17.81'

TEMPORARY BENCHMARKS:

"A" SET NAIL AND DISK LB 7137 - ELEVATION = 16.33'
"B" SET NAIL AND DISK LB 7137 - ELEVATION = 15.89'

SURVEYOR'S NOTES:

- THIS SURVEY IS REFERENCED TO FLORIDA STATE PLANE COORDINATES, NORTH ZONE, NAD 1983/90, U.S. SURVEY FEET.
- VERTICAL DATUM SHOWN HEREON IS REFERENCED TO NAVD 1988.
- THIS SURVEY, MAP, AND REPORT IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER. ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
- SOURCE OF INFORMATION: PLAT OF THE GLADES SUBDIVISION RECORDED IN PLAT BOOK 15 PAGE 57, IN THE PUBLIC RECORDS OF BAY COUNTY, FLORIDA AND FIELD RECOVERED MONUMENTATION.
- DATE OF FIELD SURVEY: OCTOBER 20, 2009 IN FIELD BOOK 162, PGS. 64-68.

UNLESS IT BEARS THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER, THIS DRAWING, SKETCH, PLAT OR MAP IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT VALID.
I HEREBY CERTIFY THAT THIS SURVEY, AS SHOWN HEREON, IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AS OF THE DATE SURVEYED.

DAVID JON BARTLETT, P.L.S.
PROFESSIONAL LAND SURVEYOR
FLORIDA LICENSE NO. LS 4018

DATE SIGNED
L.B. 0007137

NO.	DATE	APPR.	REVISION
1			
2			
3			
4			
5			
6			
7			

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BRISTOL, FL 32321
(850) 267-0759

10400 NW MAIN STREET
SANTA ROSA BEACH, FL 32409
(850) 267-0759

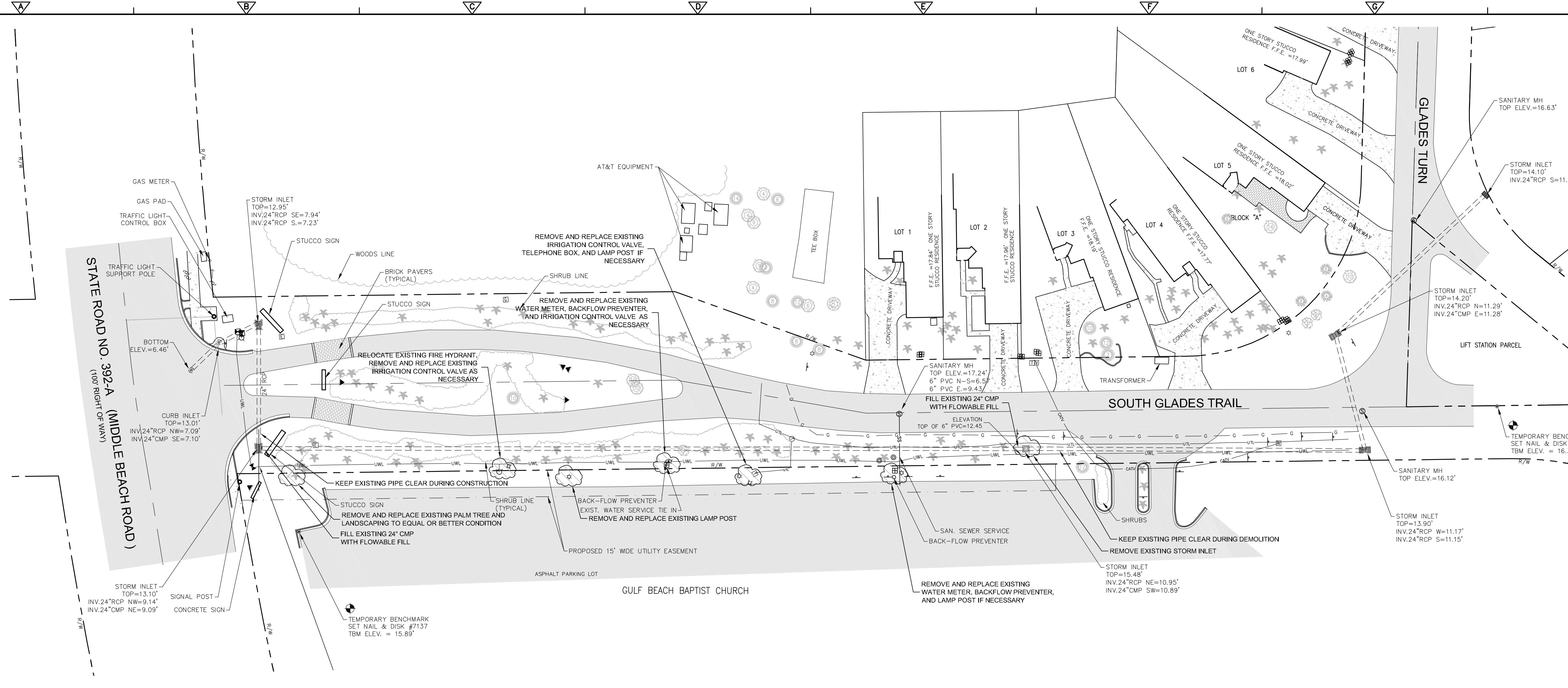
DESIGNED: DJB/MS
DRAWN: DJB/MS
CHECKED: FCR
DATE: 11/02/2009

SCALE: 1"=30'

PROJECT NO: 208.068
SHEET: 1 of 1

TOPOGRAPHIC SURVEY
STORMWATER IMPROVEMENT PHASE 1
GLADES TRAIL SURVEY
PANAMA CITY BEACH
BAY COUNTY, FLORIDA

PROJECT NO: 208.068
SHEET: 1 of 1

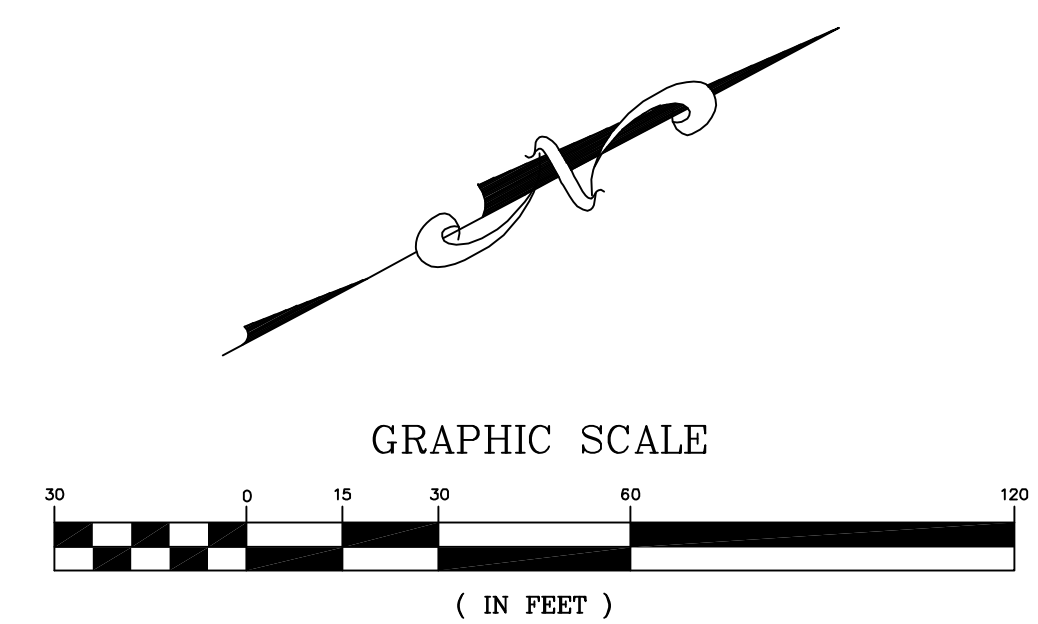


LEGEND:

	EXISTING ASPHALT		GAS LINE MARKER
	EXISTING CONCRETE		STUBOUT
	EXISTING BRICK		MAILBOX
	WATER MAIN		GUY ANCHOR
	SANITARY SEWER SERVICE		UTILITY POLE
	GAS MAIN		STORM SEWER MANHOLE
	BURIED TELEPHONE LINE		ELECTRIC BOX
	BURIED CABLE LINE		TELEPHONE BOX
	LAMP POLE		TELEVISION BOX
	TRAFFIC SIGN		PINE TREE
	WATER VALVE		OAK TREE
	WATER METER		CREPE MYRTLE
	FIRE HYDRANT		MAGNOLIA TREE
	IRRIGATION CONTROL VALVE		TREE - UNKNOWN
	SANITARY SEWER MANHOLE		PALM TREE
	LANDSCAPE LIGHT		ITEMS TO BE REMOVED

NOTES:

1. ALL DISTURBED AREAS OUTSIDE OF LANDSCAPE AREA SHALL BE SODDED TO MATCH EXISTING CONDITIONS.
2. CONTRACTOR SHALL REPLACE ALL DAMAGES TO THE IRRIGATION SYSTEM TO MATCH EXISTING CONDITIONS.
3. THE IRRIGATION HEADS SHALL NOT SPRAY ANY ABOVE GRADE SIGNS AND SHALL SPRAY HEAD TO HEAD.
4. ALL EXISTING TREES AND SHRUBS SHALL BE PROTECTED AT ALL TIMES.



REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: **J. SKLARSKI**
 DRAWN BY: **J. FOY**
 SHEET CHK'D BY: **C. FOREHAND**
 CROSS CHK'D BY:
 APPROVED BY:
 DATE: **JANUARY 2012**

CDM
 Camp Dresser & McKee Inc.
 701 Jenkins Avenue
 Panama City, FL 32401
 Tel: (850) 785-5999
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PANAMA CITY BEACH
 STORMWATER IMPROVEMENTS PHASE I
SOUTH GLADES TRAIL
 DEMOLITION PLAN

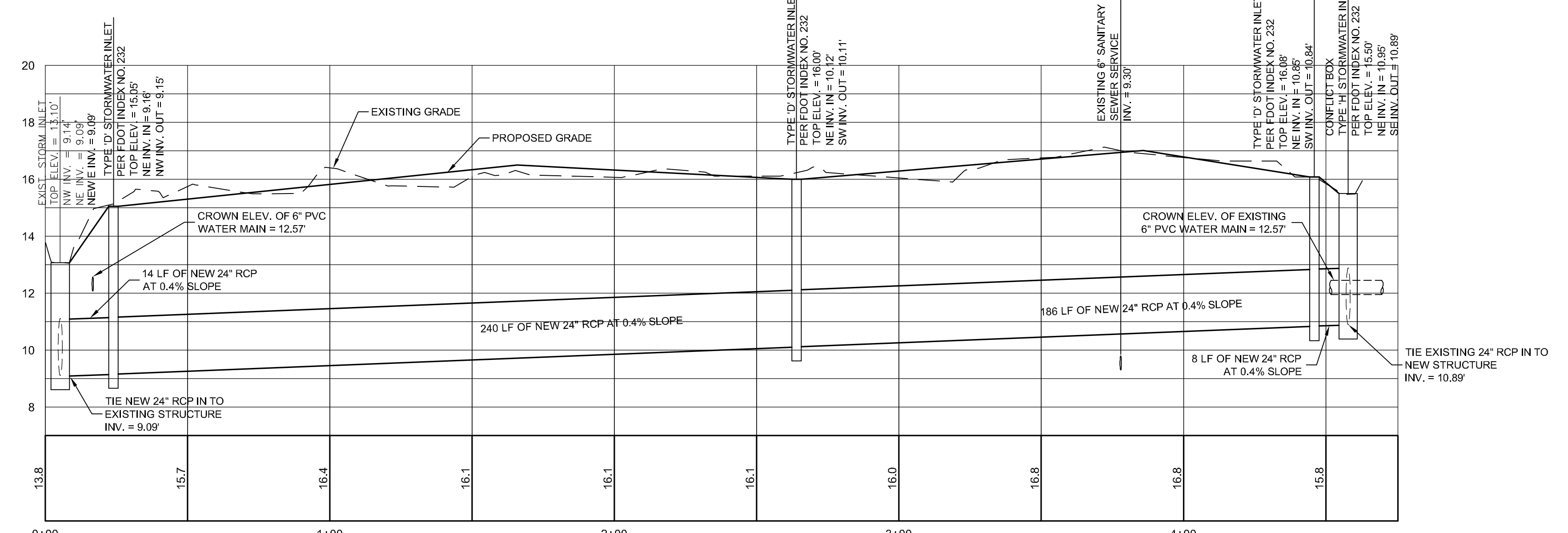
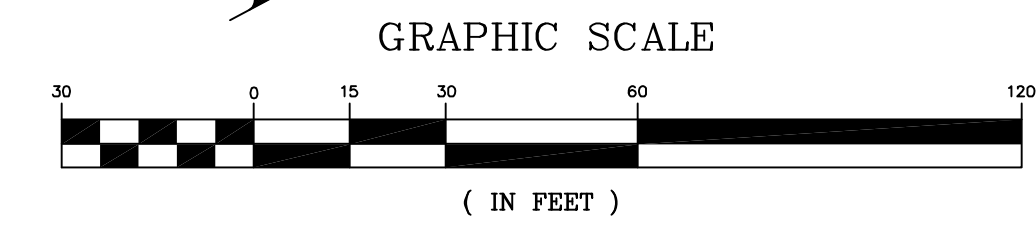
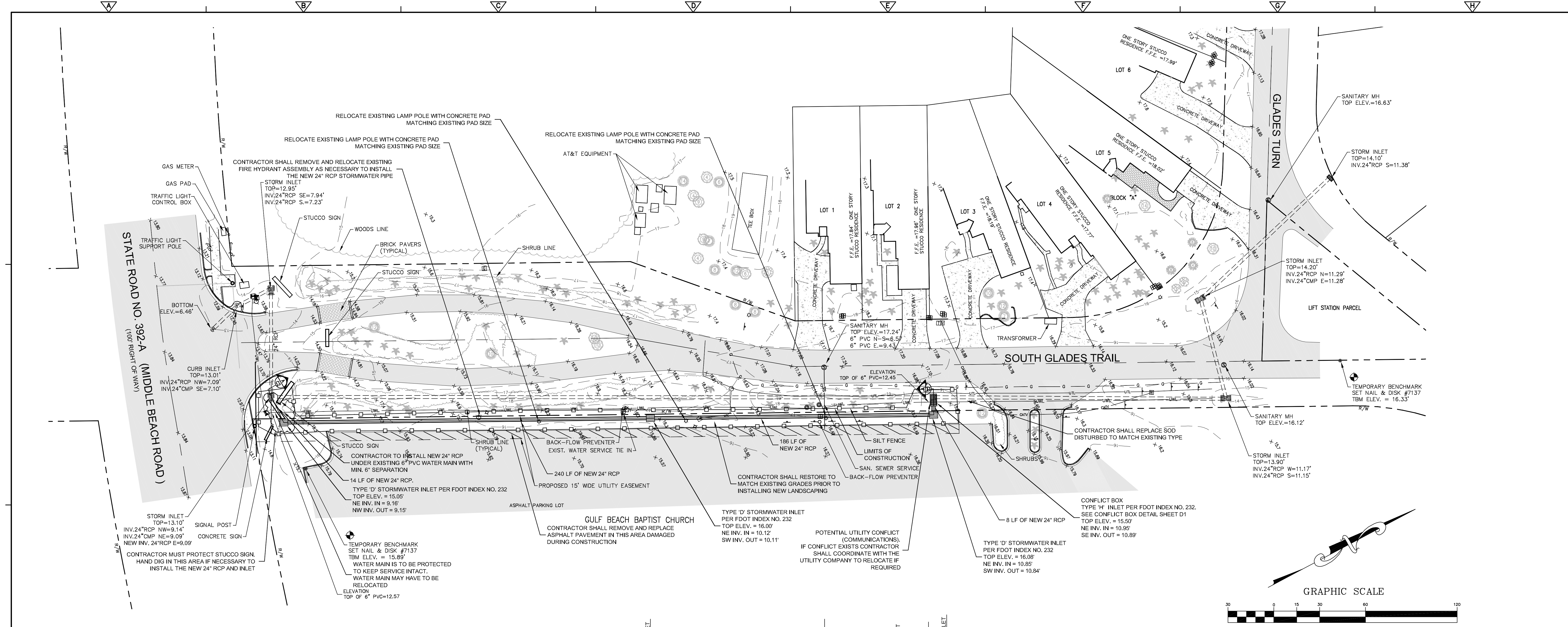
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 10400 NW 14TH ST, MIAMI, FL 33150 (305) 643-2771
 20 E WASHINGTON ST, GAINESVILLE, FL 32601 (352) 371-4231
 2064 CENTRAL AVE. EAST, GAINESVILLE, FL 32609 (352) 374-3200
 36 JASPER THOMAS RD, GAINESVILLE, FL 32607 (352) 374-9996

NOT APPROVED UNLESS STAMPED WITH PROFESSIONAL ENGINEER'S SEAL

JONATHAN SKLARSKI
 FL # 67361

PROJECT NO. 25532-73913
 FILE NAME:
 SHEET NO.
C1



SECTION A-A
SCALE: 1" = 30' HORIZONTAL
1" = 3' VERTICAL

NOTES:

- ALL DISTURBED AREAS SHALL BE LANDSCAPED OR SODDED TO MATCH EXISTING CONDITIONS TO EQUAL OR BETTER CONDITIONS.
- CONTRACTOR SHALL UTILIZE CONSTRUCTION PRACTICES (WELL POINT, TRENCH BOX, HAND DIG) AS NECESSARY TO AVOID ANY IMPACTS TO THE EXISTING PARKING/PAVED AREA.
- CONTRACTOR SHALL REMOVE AND REPLACE ASPHALT PAVEMENT AREA DAMAGED DURING CONSTRUCTION.

LEGEND:

	EXISTING ASPHALT		GAS LINE MARKER
	EXISTING CONCRETE		STUBOUT
	EXISTING BRICK		MAILBOX
	WATER MAIN		GUY ANCHOR
	SANITARY SEWER SERVICE		UTILITY POLE
	GAS MAIN		STORM SEWER MANHOLE
	BURIED TELEPHONE LINE		ELECTRIC BOX
	BURIED CABLE LINE		TELEPHONE BOX
	SILT FENCE/LIMITS OF CONSTRUCTION		TELEVISION BOX
	LAMP POLE		SPOT ELEVATION
	TRAFFIC SIGN		EXISTING CONTOUR
	WATER VALVE		PINE TREE
	WATER METER		OAK TREE
	FIRE HYDRANT		CREPE MYRTLE
	IRRIGATION CONTROL VALVE		MAGNOLIA TREE
	SANITARY SEWER MANHOLE		TREE - UNKNOWN
	LANDSCAPE LIGHT		PALM TREE

NOT APPROVED UNLESS STAMPED WITH PROFESSIONAL ENGINEERS SEAL

JONATHAN SKLARSKI
FL # 67361

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: **J. SKLARSKI**
 DRAWN BY: **J. FOY**
 SHEET CHK'D BY: **C. FOREHAND**
 CROSS CHK'D BY:
 APPROVED BY:
 DATE: **JANUARY 2012**

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PANAMA CITY BEACH
 STORMWATER IMPROVEMENTS PHASE I
SOUTH GLADES TRAIL
 PLAN AND PROFILE

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877 OR 865 NORTH
 BRISTOL, FL 32311
 (904) 244-0719

1640 NW MAIN ST
 23 E WASHINGTON ST
 2666 CENTRAL AVE EAST
 36 ASPER THOMAS RD
 GULFPORT, FL 32201
 (904) 642-2711

3600 CENTRAL AVE EAST
 CHAMPAGNE, FL 32227
 (904) 474-3206

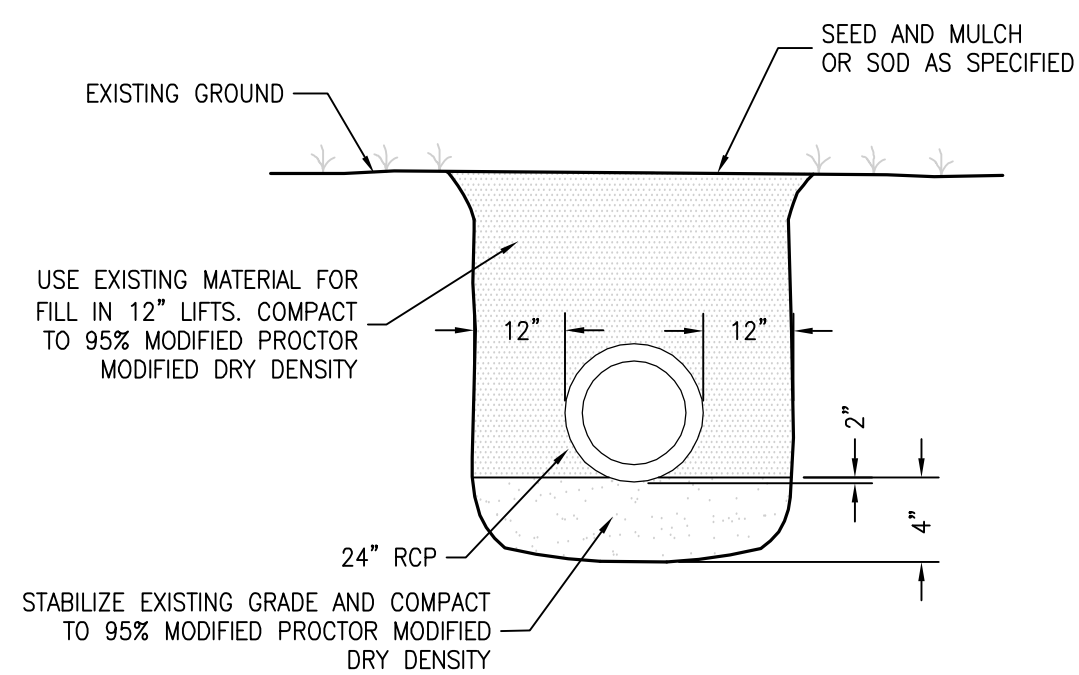
PROJECT NO. **25532-73913**
 FILE NAME:
 SHEET NO.
C2

EROSION AND SEDIMENT CONTROL NOTES:

- CONTRACTOR SHALL STAGE AND TIME CONSTRUCTION TO MINIMIZE THE SIZE OF EXPOSED SOIL AREAS AND THE TIME BETWEEN EXPOSING THE SOIL AREA AND FINISHING THE SOIL AREA.
- AS SOON AS GRADING IS COMPLETE IN AN AREA, THE CONTRACTOR WILL STABILIZE THE SOIL. FOR LONG, NARROW AREAS, THE CONTRACTOR SHALL STABILIZE CONTINUOUSLY DURING GRADING OPERATIONS. ROUGH GRADED AREAS SHOULD BE STABILIZED WITH TEMPORARY EROSION CONTROL. IF FINAL GRADING AND STABILIZATION WILL NOT BE PERFORMED WITHIN FIVE (5) DAYS, FAILURE TO STABILIZE EXPOSED SOIL AREAS IN A TIMELY MANNER AFTER GRADING MAY BE CONSIDERED A VIOLATION OF CHAPTERS 62-3, 62-12, AND/OR 62-346, FLORIDA ADMINISTRATIVE CODE, BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) AND SUBJECT TO CORRECTIVE ACTION, PURSUANT TO SECTION 403.121-403.161 FLORIDA STATUTES.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING A TASK TO PROVIDE EROSION CONTROL UNLESS ANOTHER PARTY HAS BEEN PREVIOUSLY SPECIFIED AS RESPONSIBLE FOR THE EROSION CONTROL ASSOCIATED WITH THAT TASK. IN THE EVENT ANOTHER PARTY IS RESPONSIBLE FOR EROSION CONTROL, THE CONTRACTOR SHALL STILL BE RESPONSIBLE FOR COORDINATION WITH THE PARTY RESPONSIBLE. IN THE EVENT THAT DAMAGE TO THE CONSTRUCTED ITEMS ARE DUE TO LACK OF EROSION CONTROL, THE CONTRACTOR SHALL REPAIR OR REPLACE THE ITEM AT NO CHARGE TO THE OWNER. TEMPORARY EROSION CONTROL SHALL CONSIST OF TEMPORARY GRASS, TEMPORARY MULCH, TEMPORARY SOD, ARTIFICIAL COVERINGS, SYNTHETIC BALES, SILT FENCES, AND TURBIDITY BARRIERS.
- TEMPORARY EROSION CONTROL SHALL BE IN ACCORDANCE WITH SECTION 104 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS. PERMANENT EROSION CONTROL SHALL CONSIST OF SEED, SEED AND MULCH, HYDRO-SEEDING, SOD, AND/OR ARTIFICIAL COVERINGS.
- PERMANENT EROSION CONTROL SHALL BE IN ACCORDANCE WITH SECTIONS 570 OF THE FDOT STANDARD SPECIFICATIONS. SEED OR GRASS TYPE SHALL MATCH EXISTING OR BE AS SPECIFIED BY OWNER UNLESS NOTED OTHERWISE.
- GRASS BY SEEDING SHALL BE IN ACCORDANCE WITH SECTIONS 104, 570, 981, 982, AND 983 OF FDOT STANDARD SPECIFICATIONS. THIS SHALL BE USED ONLY IN AREAS SUBJECT TO LIGHT EROSION SUCH AS FLAT AREAS.
- GRASS BY HYDRO-SEEDING SHALL BE IN ACCORDANCE WITH SECTIONS 104, 570, 981, 982, AND 983 OF FDOT STANDARD SPECIFICATIONS. HYDRO-SEEDING MAY BE USED FOR FLAT AREAS AND SIDE SLOPES WHICH DO NOT EXCEED 2:1. DRAINAGE DITCHES OR LARGE SWALES MUST HAVE ADDITIONAL PROTECTION BESIDES HYDRO-SEEDING.
- GRASS AND MULCH SHALL BE IN ACCORDANCE WITH SECTIONS 104, 570, 981, 982, AND 983 OF FDOT STANDARD SPECIFICATIONS. GRASS AND MULCH MAY BE USED IN ALL AREAS EXCEPT LARGE SWALES OR DITCHES. MULCH SHALL BE ANCHORED IN ACCORDANCE WITH SECTION 570.
- SOLID SOD SHALL BE IN ACCORDANCE WITH SECTIONS 104, 570, 981, 982, AND 983 OF FDOT STANDARD SPECIFICATIONS. SOD MAY BE USED IN ALL AREAS FOR SIDE SLOPES GREATER THAN OR EQUAL TO 2:1. SOD SHALL BE STAGGERED SO AS TO AVOID A CONTINUOUS SEAM. IN AREAS WITH SLOPES 4:1 OR STEEPER, EACH PIECE OF SOD SHALL BE PEGGED WITH SOD PEGS. IN DIFFICULT SOIL CONDITIONS WITH STEEP SLOPES, IT MAY BE NECESSARY TO COVER SOD WITH ARTIFICIAL COVERINGS SUCH AS JUTE MESH UNTIL SOD BECOMES ESTABLISHED.
- TEMPORARY EROSION CONTROL BY ARTIFICIAL COVERINGS SHALL CONSIST OF STRAW BLANKETS, COCONUT FIBER BLANKETS, POLYESTER BLANKETS, JUTE MESH, AND DRAINAGE FABRICS. MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. SEEDING SHALL BE INCLUDED IF MATERIAL REQUIRES VEGETATION TO FUNCTION PROPERLY.
- THE CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENTATION BARRIER (SYNTHETIC BALES, SILT FENCE, TURBIDITY BARRIER, OR AS SPECIFIED IN THE CONSTRUCTION DRAWINGS) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS, WATERWAYS, AND WETLAND OR JURISDICTIONAL AREAS. IF, IN THE OPINION OF THE ENGINEER, AND/OR REGULATORY AUTHORITIES, EXCESSIVE QUANTITIES OF MATERIAL ARE TRANSPORTED OFF-SITE BY EROSION OR STORMWATER RUNOFF, THE CONTRACTOR SHALL IMPROVE CONDITIONS TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES. IN NO CASE SHALL CONSTRUCTION COMMENCE PRIOR TO INSTALLATION OF EROSION CONTROL/SEDIMENTATION BARRIER.
- CONTRACTOR SHALL PLACE STRAW, MULCH, OR OTHER SUITABLE MATERIAL ON GROUND IN AREAS WHERE CONSTRUCTION-RELATED TRAFFIC IS TO ENTER AND EXIT SITE.
- IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AREA USING SPRINKLING IRRIGATION OR OTHER ACCEPTABLE METHODS.
- THE CONTRACTOR SHALL PROVIDE BYPASS PUMPING FOR STORM EVENTS DURING CONSTRUCTION.

STORMWATER SYSTEM MAINTENANCE NOTES:

- THE CONTRACTOR IS TO PROVIDE EROSION CONTROL/ SEDIMENTATION BARRIER (SYNTHETIC BALES, SILT FENCE, TURBIDITY BARRIER, OR AS SPECIFIED IN THE CONSTRUCTION DRAWINGS) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS, WATERWAYS, AND WETLAND OR JURISDICTIONAL AREAS. IF, IN THE OPINION OF THE ENGINEER, AND/OR REGULATORY AUTHORITIES, EXCESSIVE QUANTITIES OF MATERIAL ARE TRANSPORTED OFF-SITE BY EROSION OR STORMWATER RUNOFF, THE CONTRACTOR SHALL IMPROVE CONDITIONS TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES AT NO ADDITIONAL COST TO THE OWNER. IN NO CASE SHALL CONSTRUCTION COMMENCE PRIOR TO INSTALLATION OF EROSION CONTROL/SEDIMENTATION BARRIER.
- CONTRACTOR SHALL PLACE STRAW, MULCH, OR OTHER SUITABLE MATERIAL ON GROUND IN AREAS WHERE CONSTRUCTION-RELATED TRAFFIC IS TO ENTER AND EXIT SITE.
- IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AREA USING SPRINKLING IRRIGATION OR OTHER ACCEPTABLE METHODS.
- ALL NEW DRAINAGE PIPE SHALL BE RCP OR APPROVED EQUAL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION MONITORING, NOTICE OF COMMENCEMENT, AND AS-BUILT CERTIFICATION.
- CONTRACTOR SHALL PREPARE A DEWATERING AND STOCKPILE PLAN AS PART OF THE NPDES PERMIT PROCESS.
- CITY OF PANAMA CITY BEACH TO MAINTAIN STORMWATER SYSTEM UPON COMPLETION AND ACCEPTANCE OF THE PROPOSED WORK.

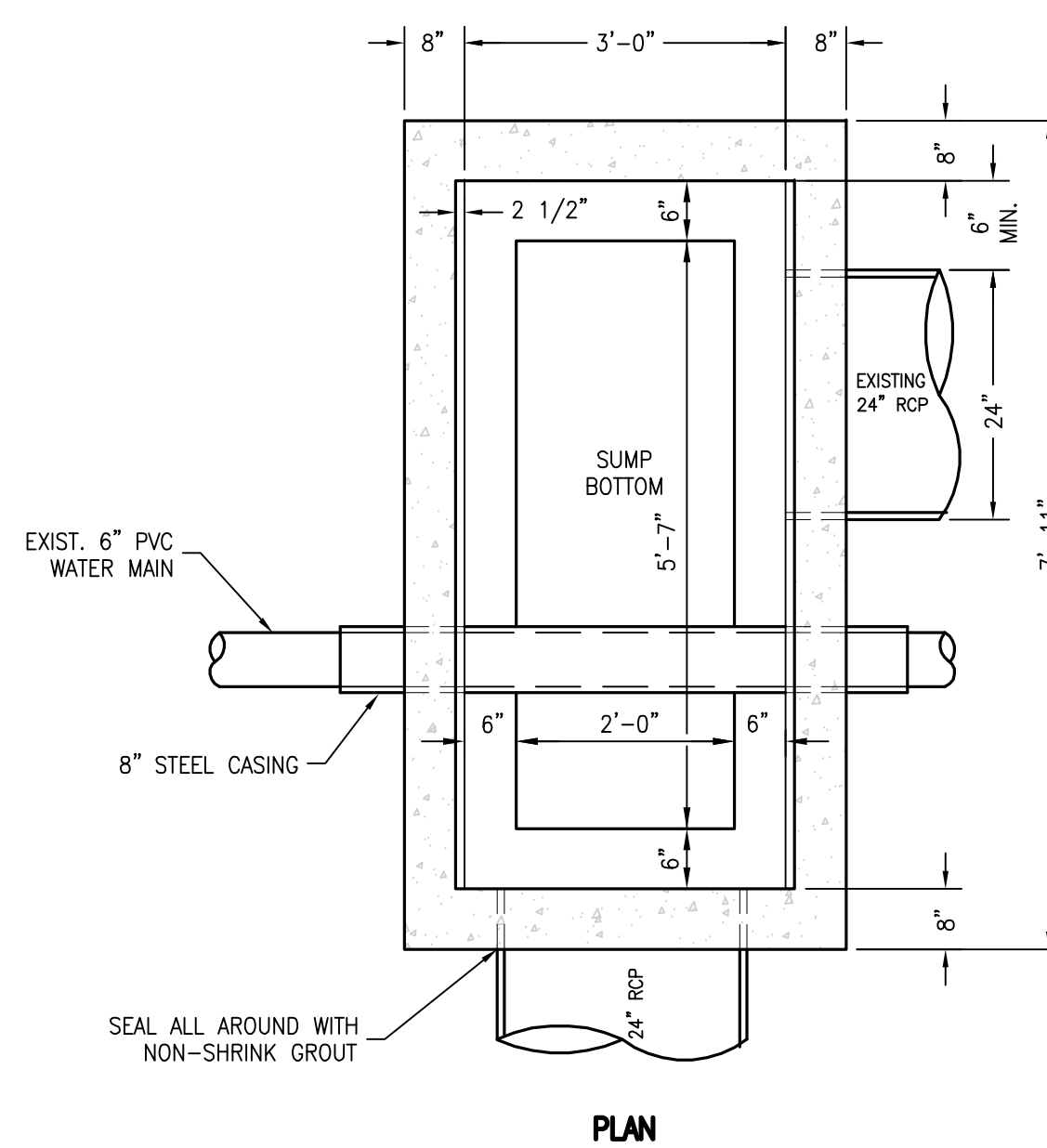
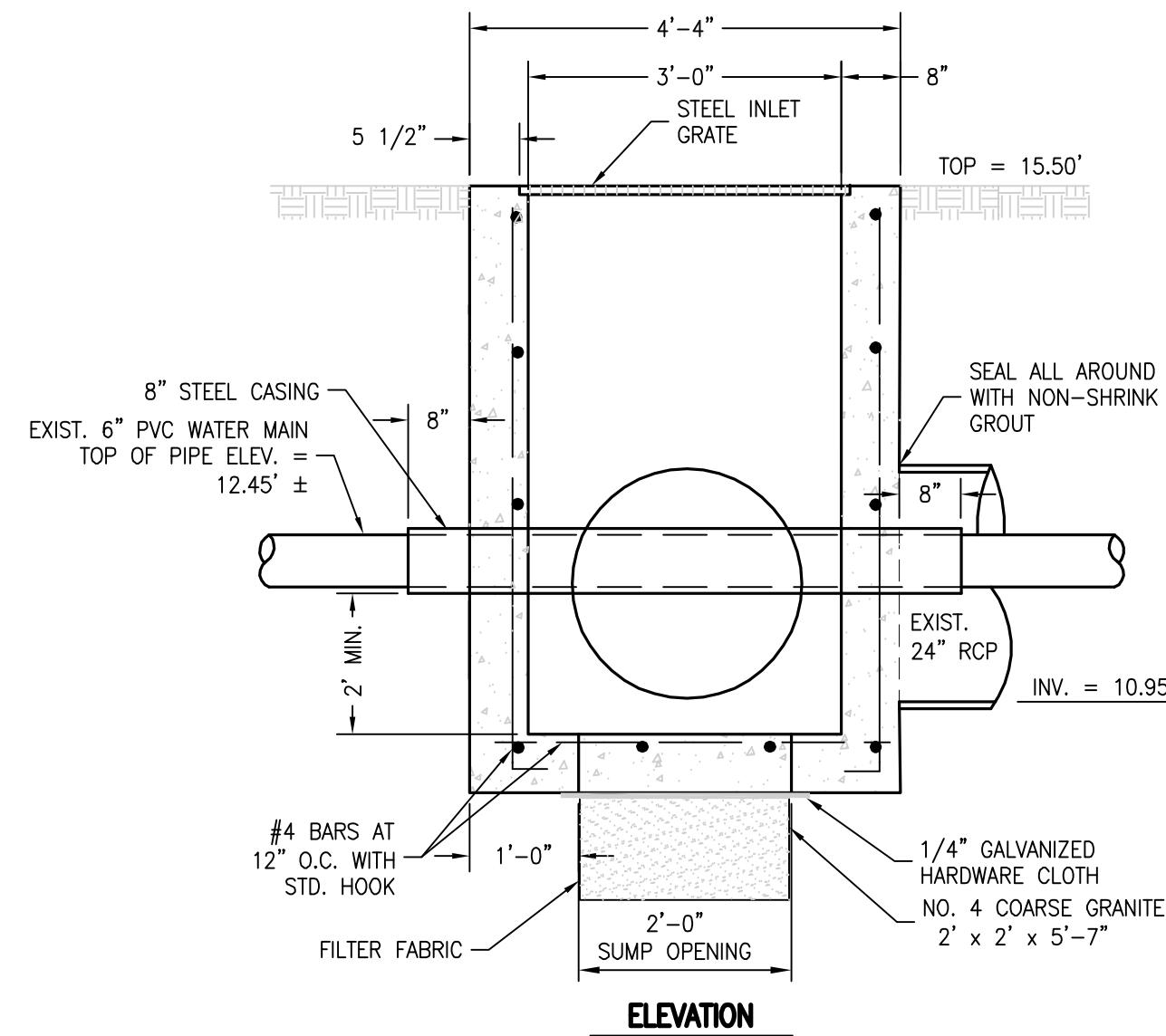


NOTE:
ALL EXCAVATIONS SHALL COMPLY WITH THE TRENCH SAFETY ACT (F.S.
553.60 THROUGH 553.64, LAWS OF FLORIDA) LATEST EDITION.

DETAIL 24" RCP BEDDING
SCALE: N.T.S.

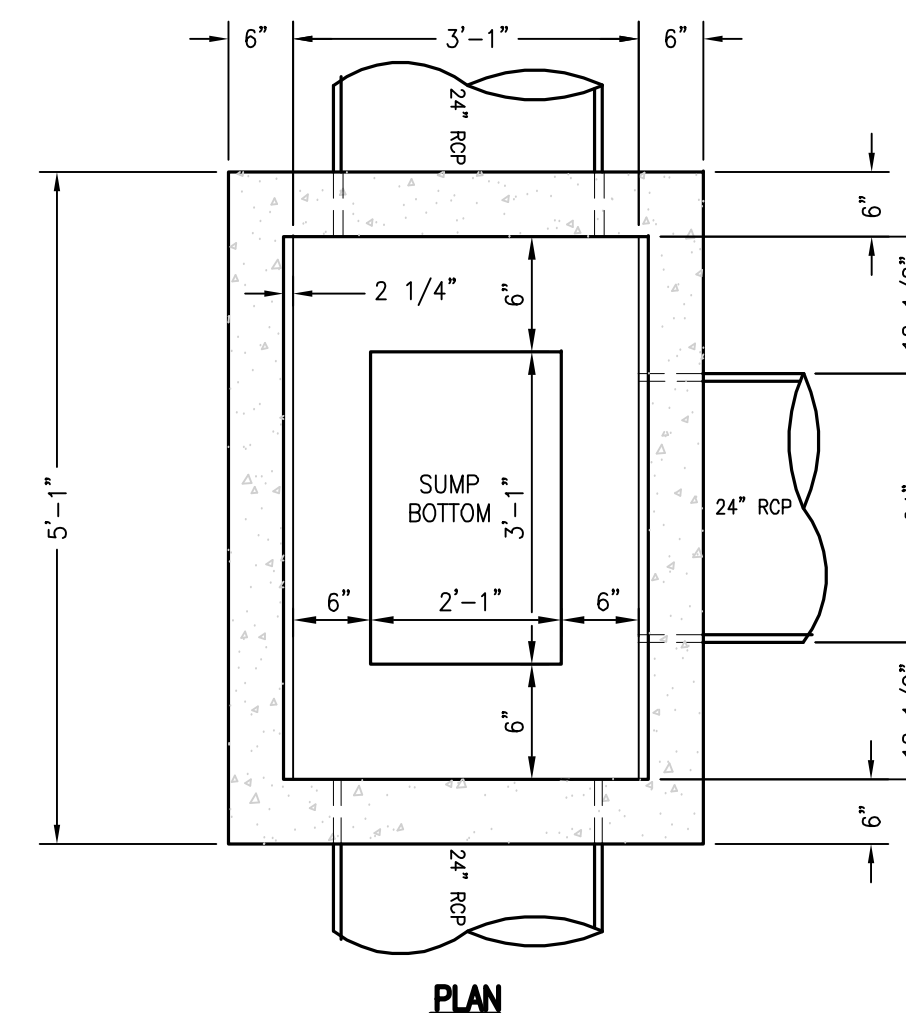
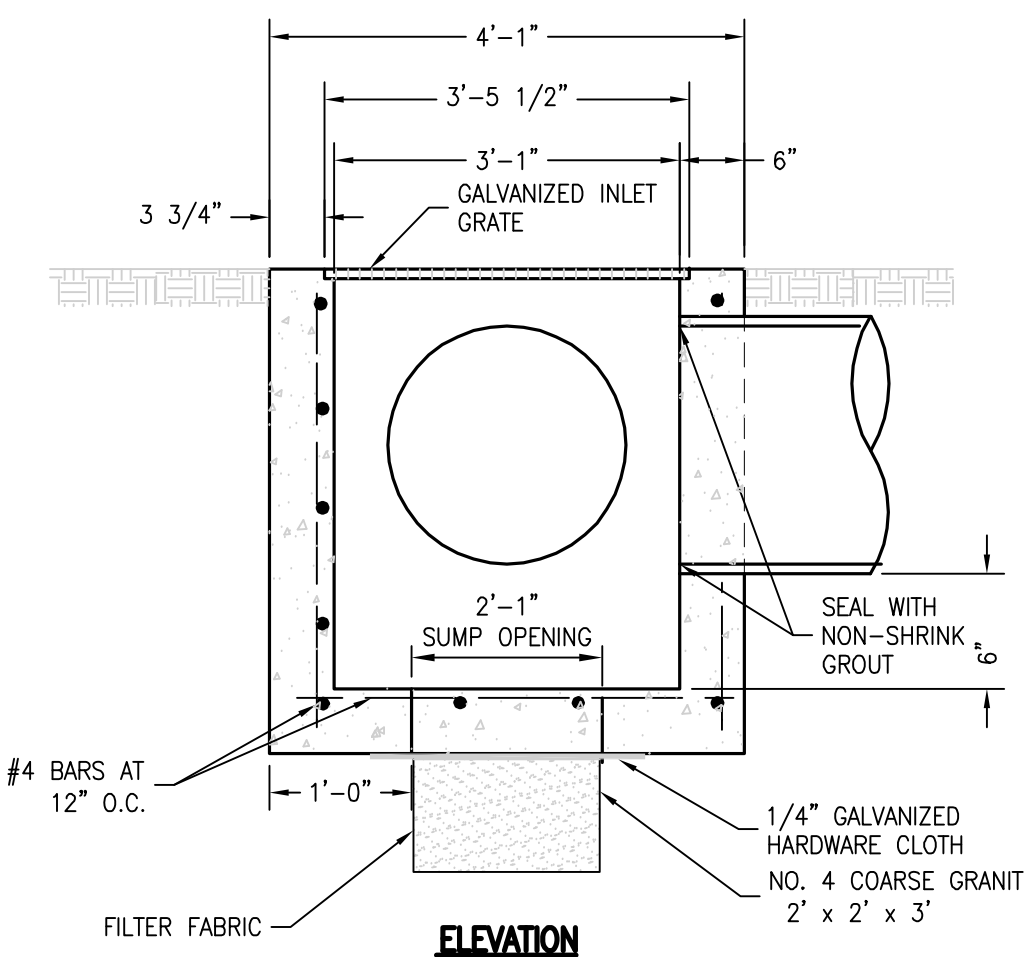
NOTES: AS-BUILT REQUIREMENTS

- ASBUILT DRAWINGS WILL BE PREPARED INDICATING LOCATIONS OF ALL SERVICES, LOCATIONS AND TYPES OF ALL FITTINGS, WITH RESPECT TO LOT CORNERS, LOCATIONS OF ALL VALVE AND DEAD END RUNS WITH THREE (3) TIES TO PHYSICAL FEATURES (BUILDING CORNERS, MAN HOLES, EXISTING STRUCTURES, POWER POLES, STORM DRAIN INLETS, CENTER OF FIRE HYDRANTS, FACE OF LARGE DIAMETER TREES >18").
- ASBUILT DRAWINGS MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL BEFORE A LETTER OF ACCEPTANCE WILL BE ISSUED.
- CONTRACTOR SHALL ALSO PROVIDE CERTIFIED ASBUILTS BY A P.L.S. REGISTERED IN THE STATE OF FLORIDA IN DIGITAL AND HARD COPY SIGNED AND SEALED. THE ASBUILTS SHALL BE IN STATE PLANE COORDINATES.
- CONTRACTOR SHALL MEET THE CITY OF PANAMA CITY BEACH (MINIMUM OF STANDARDS FOR ASBUILTS). SEE SPECIFICATIONS.



NOTE:
CONFLICT BOX SHALL BE A CAST IN PLACE TYPE 'H'
STORMWATER INLET PER FDOT INDEX NO. 232.

DETAIL CONFLICT BOX
SCALE: N.T.S.



NOTE:
SEE PLAN SHEET FOR PROPER ORIENTATION.

DETAIL TYPE "D" STORMWATER INLET
SCALE: N.T.S.

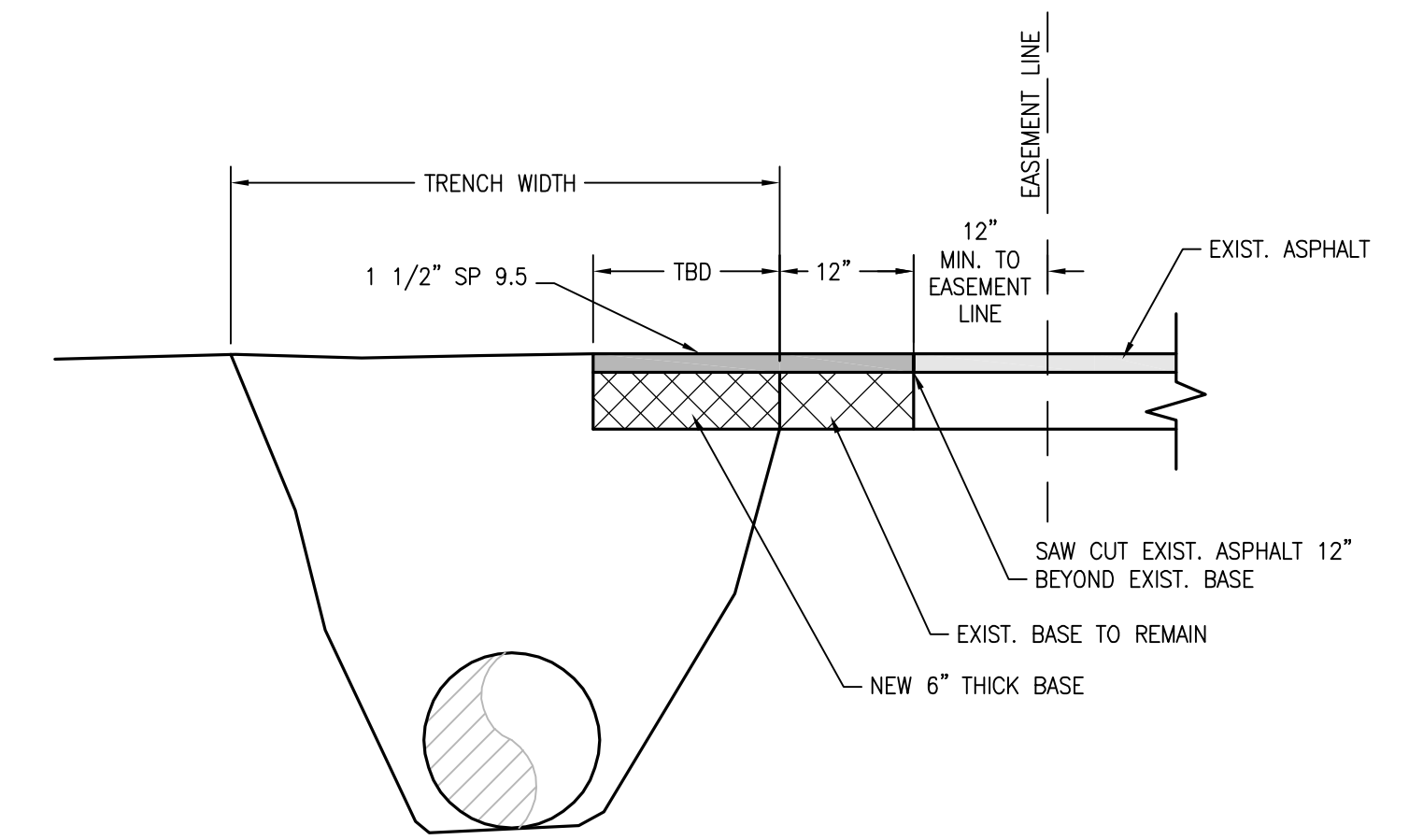
DEWATERING NOTES

- THE FACILITY IS AUTHORIZED TO DISCHARGE PRODUCED GROUND WATER FROM ANY NON-CONTAMINATED SITE ACTIVITY WHICH DISCHARGES BY A POINT SOURCE TO SURFACE WATERS OF THE STATE, AS DEFINED IN CHAPTER 62-620, F.A.C., ONLY IF THE REPORTED VALUES FOR THE PARAMETERS LISTED IN TABLE 1 DO NOT EXCEED ANY OF THE LISTED SCREENING VALUES. BEFORE DISCHARGE OF PRODUCED GROUND WATER CAN OCCUR FROM SUCH SITES, ANALYTICAL TESTS ON SAMPLES OF THE PROPOSED UNTREATED DISCHARGE WATER SHALL BE PERFORMED TO DETERMINE IF CONTAMINATION EXISTS.
- MINIMUM REPORTING REQUIREMENTS FOR ALL PRODUCED GROUND WATER DISCHARGES. THE EFFLUENT SHALL BE SAMPLED BEFORE THE COMMENCEMENT OF DISCHARGE, AGAIN WITHIN THIRTY (30) DAYS AFTER COMMENCEMENT OF DISCHARGE, AND THEN ONCE EVERY SIX (6) MONTHS FOR THE LIFE OF THE PROJECT. SAMPLES SHALL BE TAKEN PRIOR TO ACTUAL DISCHARGE OR MIXING WITH THE RECEIVING WATERS. THE EFFLUENT SHALL BE SAMPLED FOR THE PARAMETERS LISTED IN TABLE 1.

Table 1

Parameter	Screening Values for Discharges into:	
	Fresh Waters	Coastal Waters
Total Organic Carbon (TOC)	10.0 mg/L	10.0 mg/L
pH, standard units	6.0 - 8.5	6.5 - 8.5
Total Recoverable Mercury	0.012 µg/L	0.025 µg/L
Total Recoverable Cadmium	9.3 µg/L	9.3 µg/L
Total Recoverable Copper	2.9 µg/L	2.9 µg/L
Total Recoverable Lead	0.03 mg/L	5.6 µg/L
Total Recoverable Zinc	86.0 µg/L	86.0 µg/L
Total Recoverable Chromium (Hex.)	11.0 µg/L	50.0 µg/L
Benzene	1.0 µg/L	1.0 µg/L
Naphthalene	100.0 µg/L	100.0 µg/L

- FOR FRESH WATERS AND COASTAL WATERS, THE PH OF THE EFFLUENT SHALL NOT BE LOWERED TO LESS THAN 6.0 UNITS FOR FRESH WATERS, OF LESS THAN 6.5 UNITS FOR COASTAL WATERS, OR RAISED ABOVE 8.5 UNITS, UNLESS NATURAL BACKGROUND DATA CONFIRMING A NATURAL BACKGROUND PH OUTSIDE OF THIS RANGE IS SUBMITTED. IF NATURAL BACKGROUND OF THE RECEIVING WATER IS DETERMINED TO BE LESS THAN 6.0 UNITS FOR FRESH WATERS, OR LESS THAN 6.5 UNITS IN COASTAL WATERS, THE PH SHALL NOT VARY BELOW NATURAL BACKGROUND OR VARY MORE THAN ONE (1) UNIT ABOVE NATURAL BACKGROUND FOR FRESH AND COASTAL WATERS. IF NATURAL BACKGROUND OF THE RECEIVING WATER IS DETERMINED TO BE HIGHER THAN 8.5 UNITS, THE PH SHALL NOT VARY ABOVE NATURAL BACKGROUND OR VARY MORE THAN ONE (1) UNIT BELOW NATURAL BACKGROUND OF FRESH AND COASTAL WATERS. THE CONTRACTOR SHALL INCLUDE THE NATURAL BACKGROUND PH OF THE RECEIVING WATERS WITH THE RESULTS OF THE ANALYSES LISTED IN NOTE 2. FOR PURPOSES OF THIS SECTION ONLY, FRESH WATERS ARE THOSE HAVING A CHLORIDE CONCENTRATION OF LESS THAN 1500 MG/L, AND COASTAL WATERS ARE THOSE HAVING A CHLORIDE CONCENTRATION EQUAL TO OR GREATER THAN 1500 MG/L.
- IN ACCORDANCE WITH RULE 62-302.500 (1) (A-C), F.A.C., THE DISCHARGE SHALL AT ALL TIMES BE FREE FROM FLOATING SOLIDS, VISIBLE FOAM, TURBIDITY, OR VISIBLE OIL IN SUCH AMOUNTS AS TO FORM NUISANCES ON SURFACE WATERS.
- ALL OF THE GENERAL CONDITIONS LISTED IN RULE 62-621.250, F.A.C., ARE APPLICABLE.



**REMOVAL AND REPLACEMENT
DETAIL OF ASPHALT PAVING**
SCALE: N.T.S.

NOT APPROVED UNLESS STAMPED WITH
PROFESSIONAL ENGINEERS' SEAL

JONATHAN SKLARSKI
FL # 67361

PROJECT NO. 25532-73913
FILE NAME:

SHEET NO.

D1

RELEASED FOR CONSTRUCTION

DESIGNED BY: J. SKLARSKI
DRAWN BY: J. FOY
SHEET CHK'D BY: C. FOREHAND
CROSS CHK'D BY:
APPROVED BY:
DATE: JANUARY 2012

CDM
Camp Dresser & McKee Inc.
701 Jenkins Avenue
Panama City, FL 32401
Tel: (850) 785-5999
consulting • engineering • construction • operations

PANAMA CITY BEACH
STORMWATER IMPROVEMENTS PHASE I
SOUTH GLADES TRAIL
MISCELLANEOUS DETAILS

PREBLE-RISH INC
CONSULTING ENGINEERS AND SURVEYORS
CIVIL • SURVEYING • SITE PLANNING

334 MARINA DRIVE
PANAMA CITY, FL 32409
(850) 227-7206

303 ABERDEEN PARKWAY
PANAMA CITY, FL 32409
(850) 222-4444

10400 NW MAIN ST
SANTA ROSA BEACH, FL 32409
(850) 643-2711

216 E WASHINGTON ST
GAINESVILLE, FL 32601
(889) 675-4231

2604 CENTRAL AVE EAST
GULFSTREAM PARK, FL 32404
(850) 247-3200

35 ASPER THOMAS RD
CROSSVILLE, FL 32627
(850) 274-9996

REV. NO.	DATE	DRWN	CHKD	REMARKS

STORMWATER POLLUTION PREVENTION PLAN:

- 1. SITE DESCRIPTION:**
 A. CONSTRUCTION ACTIVITY: PANAMA CITY BEACH STORMWATER IMPROVEMENTS PHASE 1 - SOUTH GLADES TRAIL
 PROJECT LIMITS: SEE SHEET C1
 PROJECT DESCRIPTION: CONSTRUCTION OF APPROXIMATELY 430 LF OF 24" RCP AND STORMWATER INLETS
 MAJOR SOIL DISTURBING ACTIVITIES: CLEARING AND GRUBBING OVER PROJECT LIMITS, EXCAVATION OF EXISTING PIPE AND STRUCTURES
 B. TOTAL PROJECT AREA: 10,504 SQUARE FEET OR 0.24 ACRES
 C. TOTAL SOIL AREA TO BE DISTURBED: SAME AS ABOVE

- 2. CONTROLS:**
 NARRATIVE - SEQUENCE OF SOIL DISTURBING ACTIVITIES AND IMPLEMENTATION OF CONTROLS
 THE SOIL DISTURBING ACTIVITIES FOR THIS PROJECT ARE AS FOLLOWS: ONLY UPON PROPER PLACEMENT OF ALL EROSION CONTROLS CAN SOIL DISTURBING ACTIVITIES TAKE PLACE. SYNTHETIC BALES AND SILT FENCE WILL BE USED LATERALLY AT SPECIFIED INTERVALS. SYNTHETIC BALES SHALL BE USED TO PREVENT SEDIMENTATION FROM ESCAPING PROJECT LIMITS.

- A. EROSION AND SEDIMENT CONTROLS:**
 (1) STABILIZATION PRACTICES:
 TEMPORARY SODDING
 TEMPORARY GRASSING
 X PERMANENT PLANTING, SODDING, OR SEEDING
 X TEMPORARY MULCHING
 ARTIFICIAL COVERING
 BUFFER ZONES
 PRESERVATION OF NATURAL RESOURCES
 (2) STRUCTURAL PRACTICES:
 SAND BAGGING
 X SILT FENCES
 X SYNTHETIC BALES
 BERMS
 X DIVERSION, INTERCEPTOR, OR PERIMETER DITCHES
 PIPE SLOPE DRAINS
 FLUMES
 ROCK BEDDING AT CONSTRUCTION EXIT
 TIMBER BEDDING AT CONSTRUCTION EXIT
 DITCH LINER
 SEDIMENT TRAPS
 SEDIMENT BASINS
 STORM INLET SEDIMENT TRAP (ROCK BAGS)
 STONE OUTLET STRUCTURES
 CURBS AND GUTTERS
 STORM SEWERS
 VELOCITY CONTROL DEVICES
 TURBIDITY BARRIER
 RIP RAP

- B. OTHER CONTROLS:**
 (1) WASTE DISPOSAL: NO CONSTRUCTION WASTE MATERIAL WILL BE BURIED ON SITE
 (2) OFF SITE VEHICLE TRACKING:
 HAIL ROADS DAMPENED FOR DUST CONTROL
 X LOADED HAIL TRUCKS TO BE COVERED WITH TARPULIN
 X EXCESS DIRT ON ROAD REMOVED DAILY
 X STABILIZED CONSTRUCTION ENTRANCE
 (3) SANITARY WASTE: N/A
 (4) FERTILIZERS AND PESTICIDES: FERTILIZERS AND/OR PESTICIDES SHALL BE APPLIED ACCORDING TO MANUFACTURERS RECOMMENDATIONS BY A LICENSED OR CERTIFIED APPLICATOR AS DIRECTED BY THE PROJECT ENGINEER.
 (5) NON-STORMWATER DISCHARGE (INCLUDING SPILL REPORTING): NO NON-STORMWATER DISCHARGES ARE ANTICIPATED.

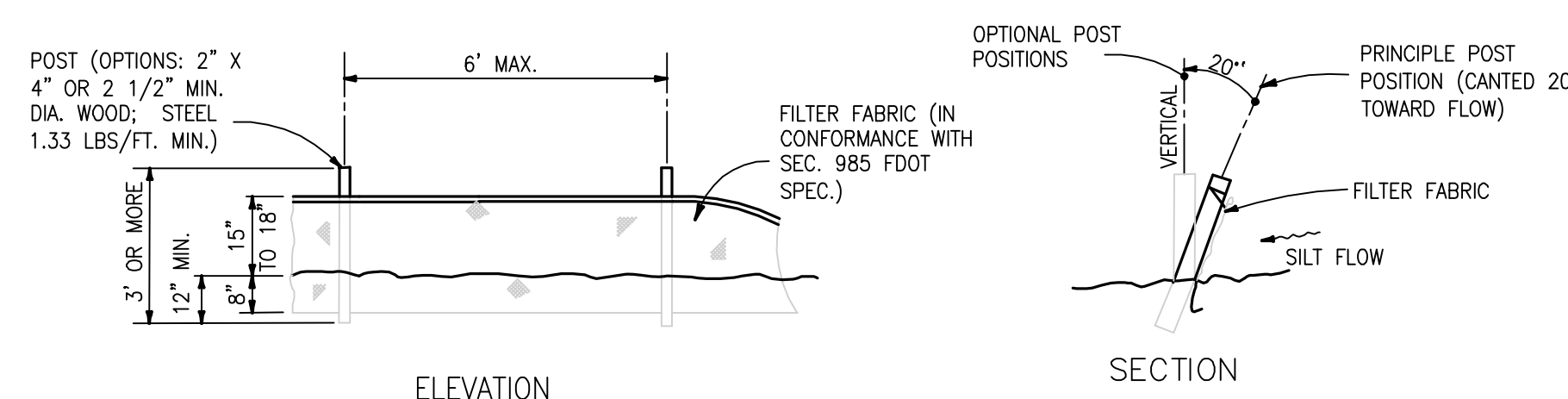
- 3. MAINTENANCE:**
 ALL OF THE CONTROLS SHALL BE MAINTAINED AT ALL TIMES BY THE CONTRACTOR. IF A REPAIR IS NECESSARY, IT WILL BE DONE AT THE EARLIEST DATE POSSIBLE, BUT NO LATER THAN (7) CALENDAR DAYS AFTER THE SURROUNDING EXPOSED AREA HAS DRIED SUFFICIENTLY TO PREVENT FURTHER DAMAGE FROM HEAVY EQUIPMENT.

- 4. INSPECTION:**
 ALL CONTROLS SHALL BE INSPECTED WEEKLY BY THE CONTRACTOR AS WELL AS AFTER 0.5" OR MORE OF RAIN. AN INSPECTION AND MAINTENANCE REPORT WILL BE MADE PER EACH INSPECTION. BASED ON INSPECTION RESULTS THE CONTROLS SHALL BE REVISED PER THE INSPECTION REPORTS.

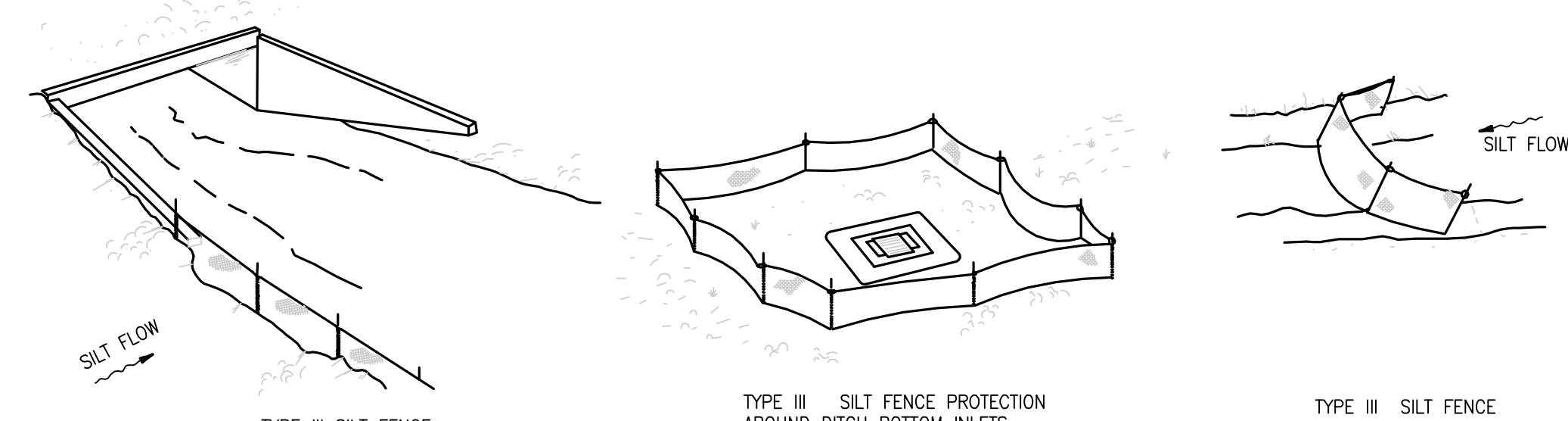
- A. THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTION THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER. TO COMPLY, THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAGES AND DAILY RAINFALL RECORDS. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. THE CONTRACTOR SHALL ALSO INSPECT AND CERTIFY THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN.
 B. IN INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS NEEDED.
 C. RECORDS OF THE INSPECTION AND THE CONSTRUCTION PERMIT MUST BE MAINTAINED AT THE CONSTRUCTION SITE AND BE READILY AVAILABLE FOR INSPECTION.

5. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING COVERAGE UNDER THE GENERAL PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES PRIOR TO START OF CONSTRUCTION OR ANY DISTURBANCE OF LAND GREATER THAN ONE ACRE. THE DEVELOPER/CONTRACTOR WILL FORWARD A COPY OF THE PERMIT AND WILL PROVIDE 24 HOUR NOTIFICATION TO THE CITY OF PANAMA CITY BEACH AND THE DISTRICT PRIOR TO COMMENCEMENT OF WORK. ALL REQUIRED ELEMENTS OF THE STORMWATER POLLUTION PREVENTION PLAN MUST BE IN PLACE PRIOR TO COMMENCEMENT OF CONSTRUCTION. FAILURE TO COMPLY COULD RESULT IN CODE ENFORCEMENT ACTION AND FINES.

6. THE CONTRACTOR SHALL PROVIDE BYPASS PUMPING OF STORMWATER IF REQUIRED DURING CONSTRUCTION.

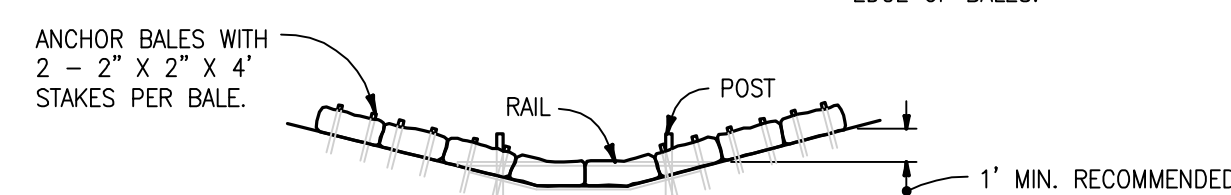
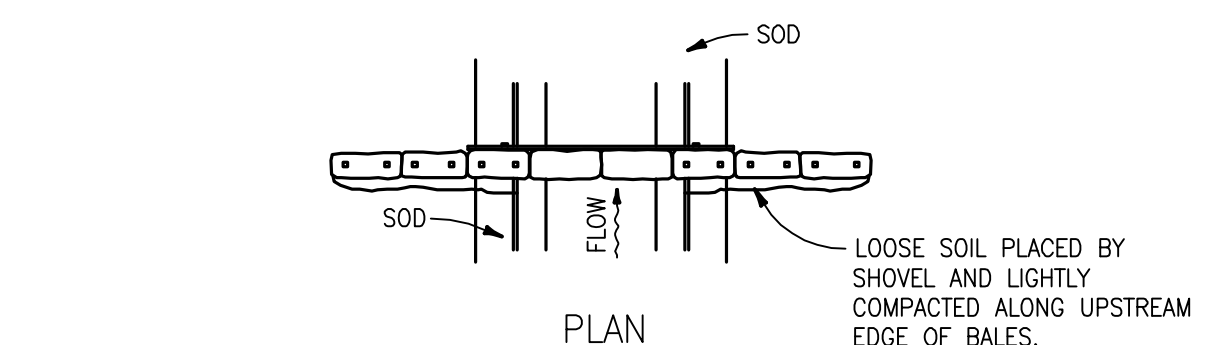


ELEVATION
SECTION
NOTE: SILT FENCE TO BE PAID FOR UNDER THE BASE BID.
TYPE III SILT FENCE



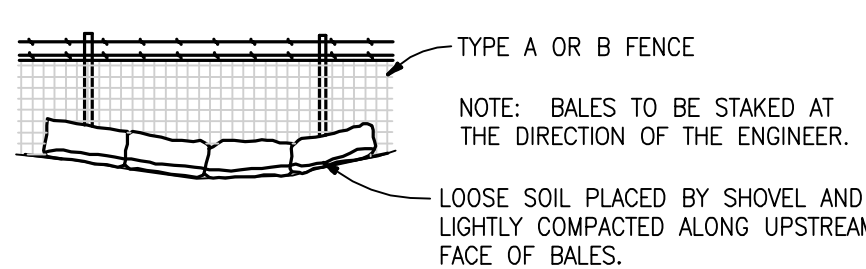
DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.

SILT FENCE APPLICATIONS

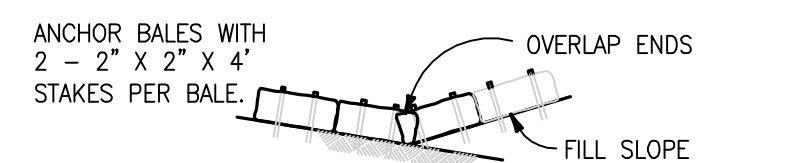
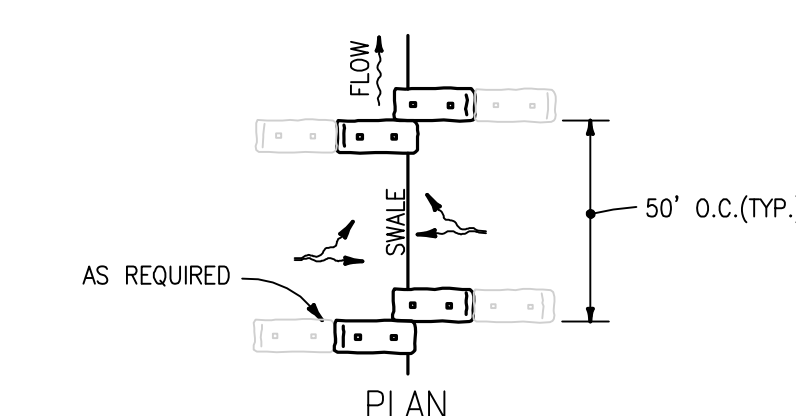


PLAN
ELEVATION
SPACING: BALE BARRIERS FOR PAVED DITCHES SHOULD BE SPACED IN ACCORDANCE WITH THE CHART BELOW

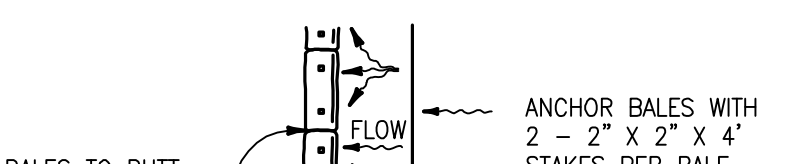
BARRIER FOR PAVED DITCH



BALES BACKED BY FENCE

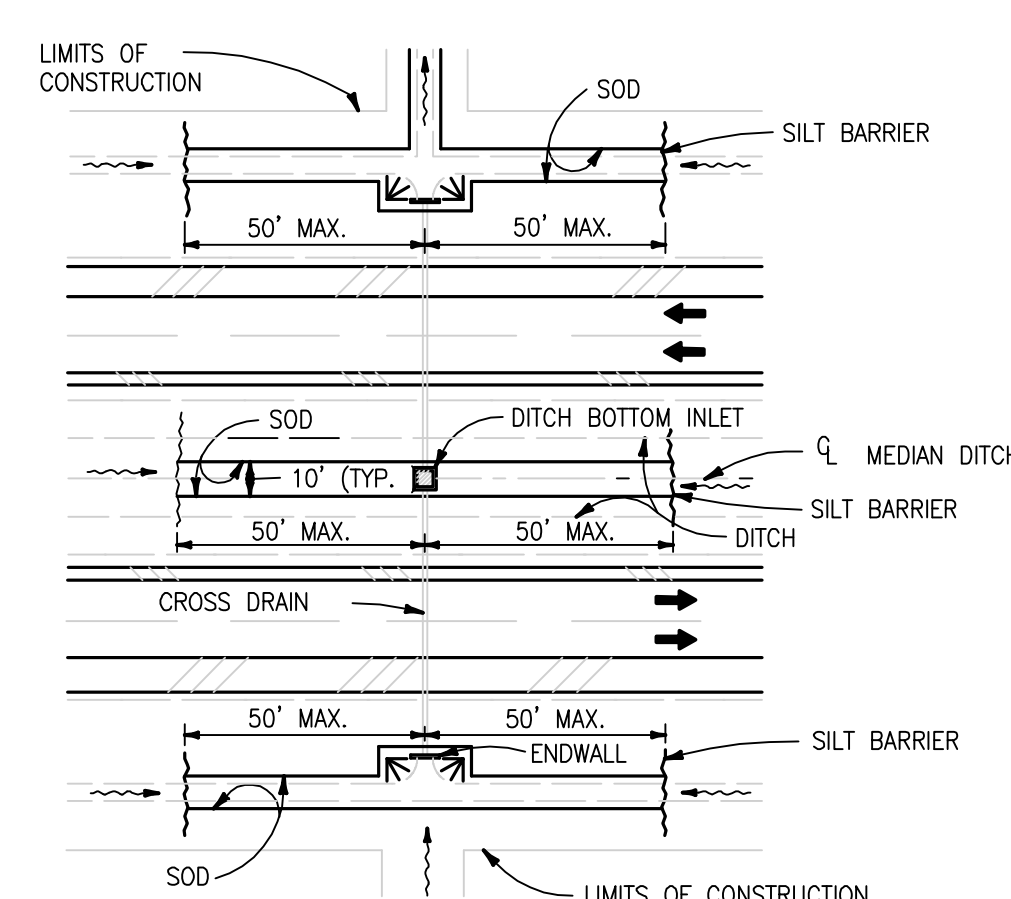


PLAN
ELEVATION
TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE



PLAN
ELEVATION
TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES AWAY FROM THE TOE OF SLOPE

BARRIERS FOR FILL SLOPES



DITCH INSTALLATIONS AT DRAINAGE STRUCTURES

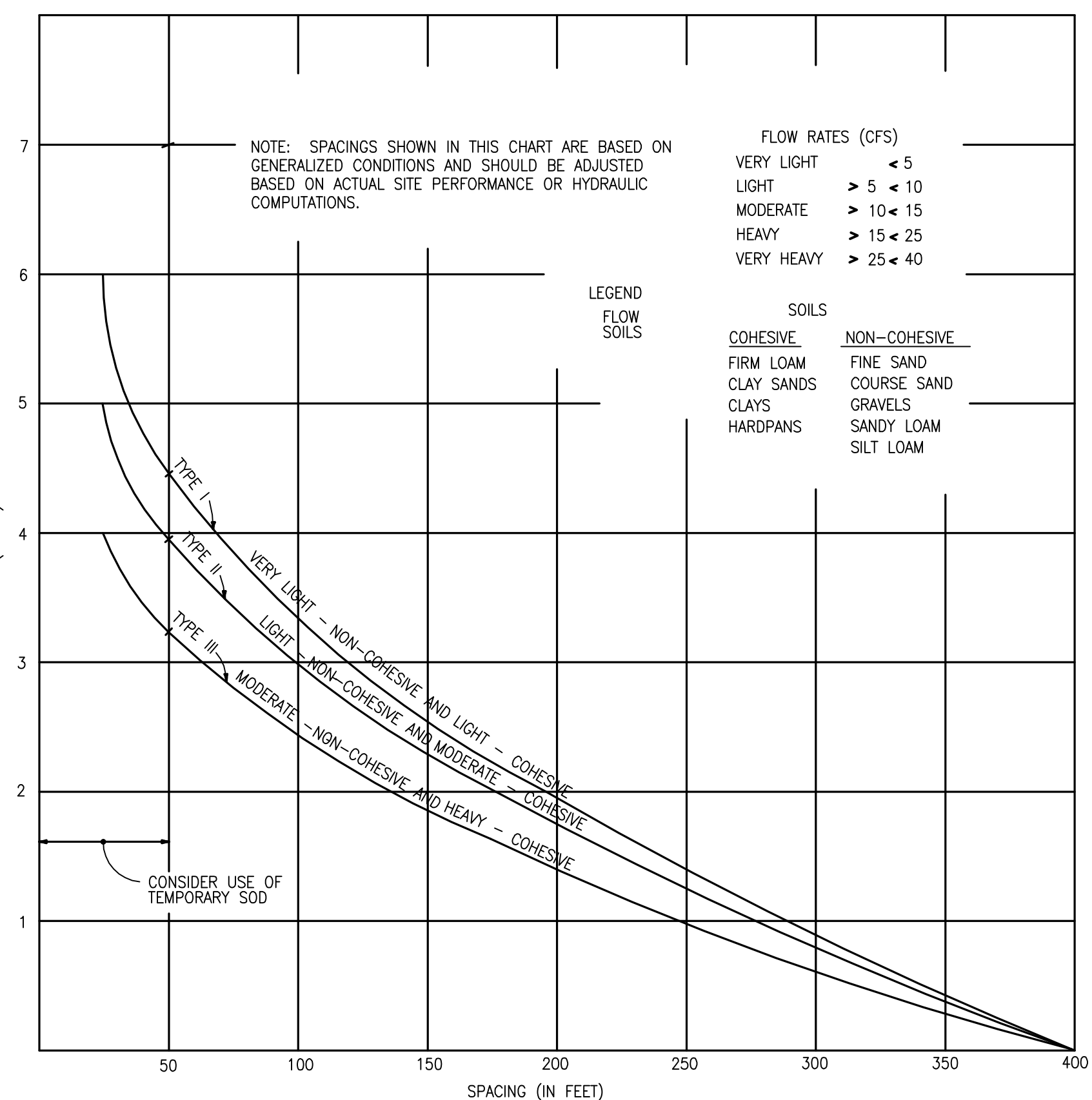


CHART 1
RECOMMENDED SPACING FOR TYPE I AND TYPE II HAY BALE BARRIERS, AND TYPE III SILT FENCES

DESIGNED BY: J. SKLARSKI	DRWN	CHKD	REMARKS
DRAWN BY: J. FOY			
SHEET CHK'D BY: C. FOREHAND			
CROSS CHK'D BY:			
APPROVED BY:			
DATE: JANUARY 2012			

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PANAMA CITY BEACH
 STORMWATER IMPROVEMENTS PHASE I
 SOUTH GLADES TRAIL
EROSION CONTROL, STORMWATER POLLUTION PREVENTION PLAN

PREBLE-RISH INC
 CONSULTING ENGINEERS AND SURVEYORS
 CIVIL • SURVEYING • SITE PLANNING

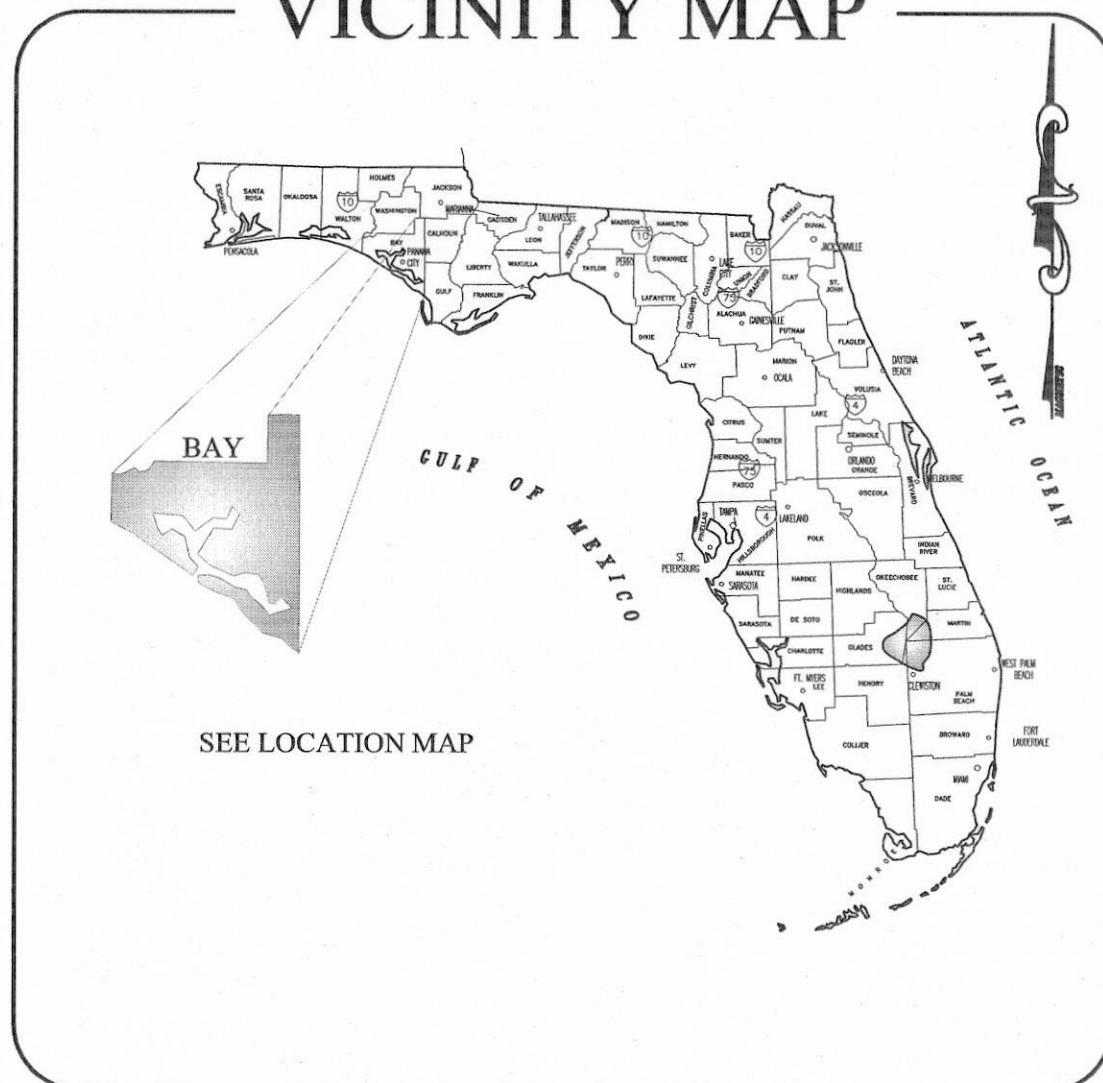
334 MARINA DRIVE PANAMA CITY, FL 32409 (850) 227-7208
 303 ABERDEEN PARKWAY PANAMA CITY, FL 32409 (850) 922-6444
 15400 NW MAIN ST SANTA ROSA BEACH, FL 32409 (850) 642-2771
 22 E WASHINGTON ST BRISTOL, FL 32311 (850) 875-4731
 2864 CENTRAL AVE EAST GULFSTREAM, FL 32449 (850) 274-9994
 35 JASPER THOMAS RD CHAMBERVILLE, FL 32827 (850) 274-9994

NOT APPROVED UNLESS STAMPED WITH PROFESSIONAL ENGINEERS SEAL

JONATHAN SKLARSKI
 FL # 67361

PROJECT NO. 25532-73913
 FILE NAME:
 SHEET NO.
D2

VICINITY MAP



SEE LOCATION MAP

SYMBOLS & ABBREVIATIONS:

- (D) = DESIGN ELEVATION
- No. = NUMBER
- # = NUMBER
- L.B. = LICENSED BUSINESS
- L.S. = LICENSED SURVEYOR
- P.S.M. = PROFESSIONAL SURVEYOR AND MAPPER
- INV. = INVERT
- ELEV. = ELEVATION
- O.R. = OFFICIAL RECORDS
- F.F.E. = FINISHED FLOOR ELEVATION
- ± = MORE OR LESS
- PVC = POLYVINYL CHLORIDE
- C.M.P. = CORRUGATED METAL PIPE
- C.P.P. = CORRUGATED PLASTIC PIPE
- R.C.P. = REINFORCED CONCRETE PIPE
- R/W = RIGHT OF WAY
- CORP. = CORPORATION
- (TYP.) = TYPICAL
- A/C = AIR CONDITIONER
- ID. = IDENTIFICATION
- INC. = INCORPORATED
- DWG. = DRAWING
- OHU = OVERHEAD UTILITIES
- ★ = LAMP POLE
- ⊥ = TRAFFIC SIGN
- ⊥ = WATER VALVE
- ⊥ = WATER METER
- ⊥ = FIRE HYDRANT
- ⊥ = IRRIGATION CONTROL VALVE
- ⊥ = SANITARY SEWER MANHOLE
- ▲ = LANDSCAPE LIGHT
- = UNDERGROUND GAS LINE
- = UNDERGROUND WATER LINE
- = UNDERGROUND CABLE TV
- (F) = FIELD SURVEYED ELEVATION
- = STUBOUT
- ⊙ = MAILBOX
- ⊙ = TEMPORARY BENCHMARK
- ⊙ = GUY ANCHOR
- ⊙ = UTILITY POLE
- ⊙ = STORM SEWER MANHOLE
- ⊙ = TELEPHONE MANHOLE
- ⊙ = ELECTRIC BOX
- ⊙ = TELEVISION BOX
- ⊙ = UNDERGROUND GAS LINE MARKER SIGN
- ⊙ = SPOT ELEVATION AT "X"
- = CONTOUR ELEVATION AT 1' INTERVALS
- = UNDERGROUND TELEPHONE
- ⊙ = EXISTING PINE TREE (DIAMETER SHOWN IN INCHES)
- ⊙ = EXISTING OAK TREE (DIAMETER SHOWN IN INCHES)
- ⊙ = EXISTING CREPE MYRTLE (DIAMETER SHOWN IN INCHES)
- ⊙ = EXISTING MAGNOLIA TREE (DIAMETER SHOWN IN INCHES)
- ⊙ = EXISTING TREE UN-KNOWN (DIAMETER SHOWN IN INCHES)
- ★ = EXISTING PALM TREE
- = EXISTING ASPHALT PAVEMENT
- = EXISTING CONCRETE
- = EXISTING BRICK

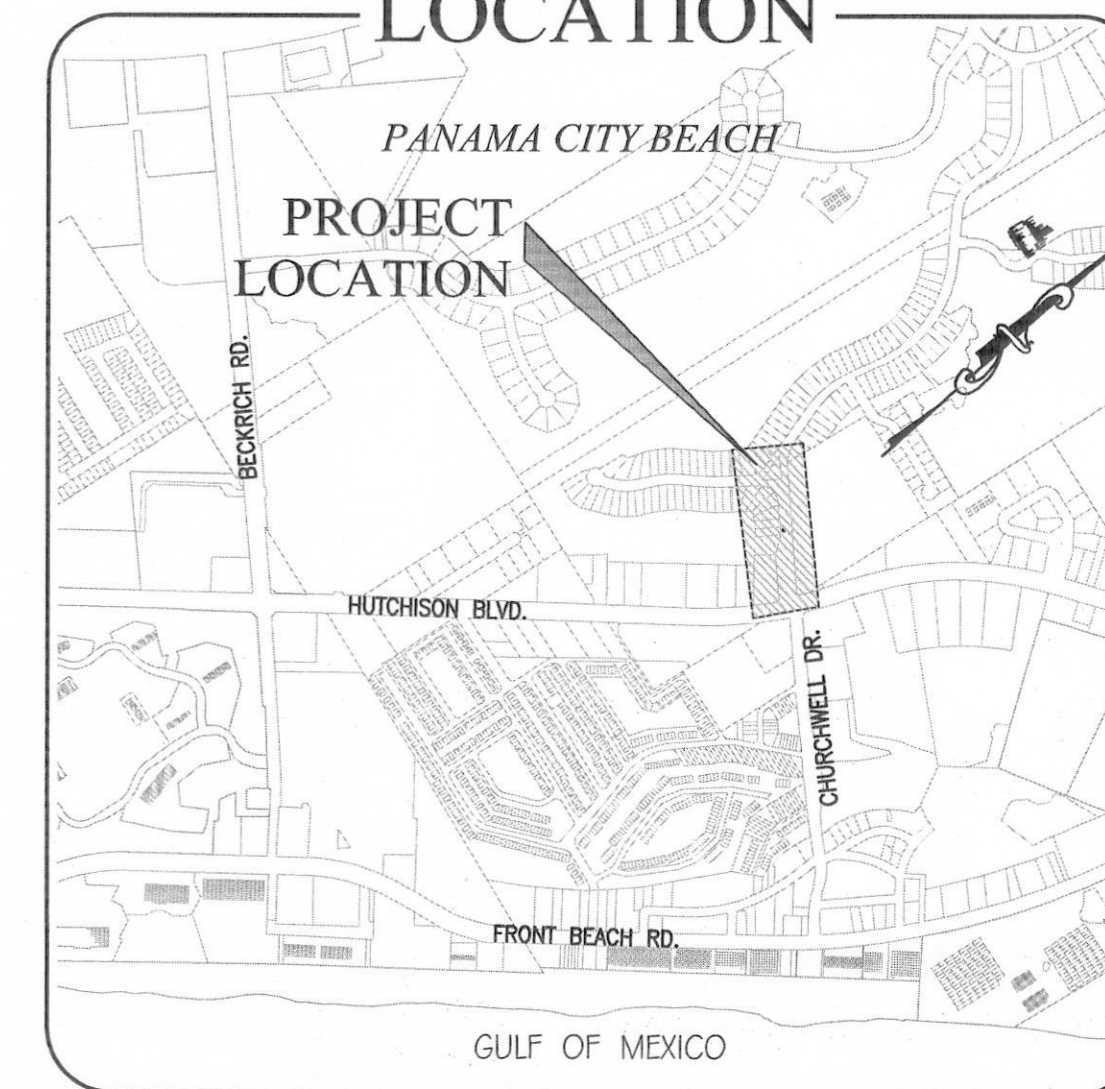
SURVEYOR'S NOTES:

- THIS SURVEY IS REFERENCED TO FLORIDA STATE PLANE COORDINATES, NORTH ZONE, NAD 1983/90, U.S. SURVEY FEET.
- VERTICAL DATUM SHOWN HEREON IS REFERENCED TO NAVD 1988.
- THIS SURVEY, MAP, AND REPORT IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER. ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.

TEMPORARY BENCHMARKS:

SET NAIL AND DISK LB 7137 - ELEVATION = 15.89'

LOCATION



NO.	DATE	APPR.	REVISION:
1			
2			
3			
4			
5			
6			
7			

PREBLERISH INC
 CONSULTING ENGINEERS AND SURVEYORS
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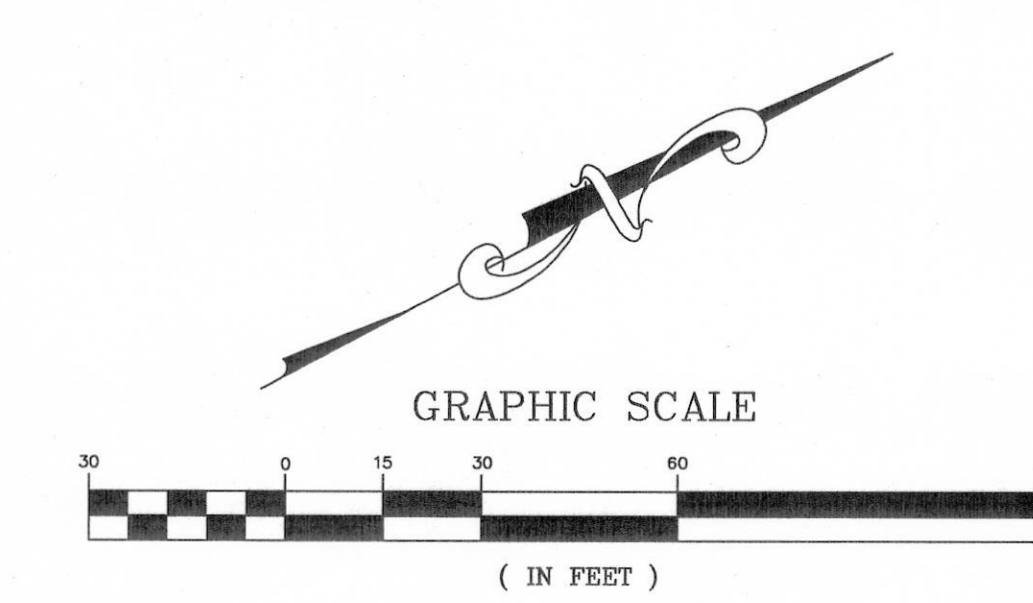
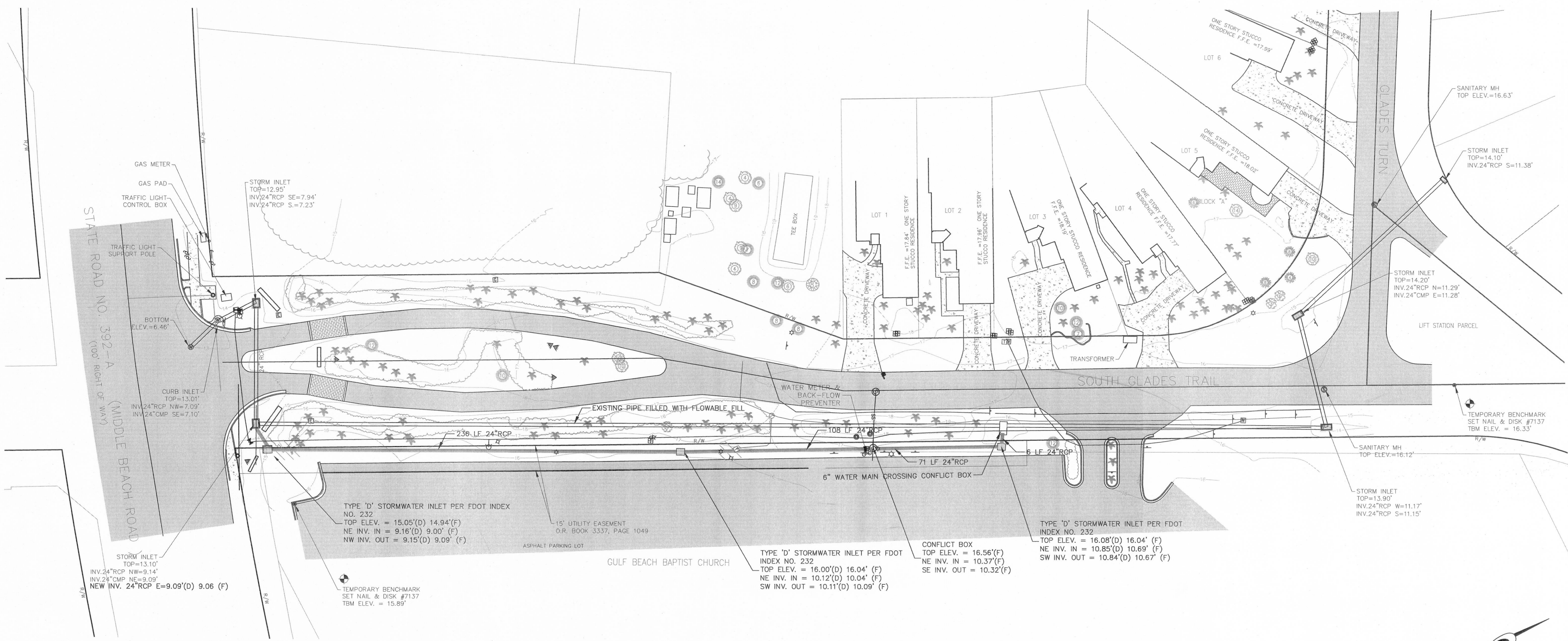
1949 NW MAIN ST. SUITE 200
 PANAMA CITY, FL 32404
 (904) 934-4444

234 MARINA DRIVE
 PANAMA CITY, FL 32404
 (904) 934-4444

1949 NW MAIN ST. SUITE 200
 PANAMA CITY, FL 32404
 (904) 934-4444

234 MARINA DRIVE
 PANAMA CITY, FL 32404
 (904) 934-4444

DATE: 3-21-12
 CHECKED: EP
 DRAWN: DJB
 DESIGNED: EP
 SCALE: 1" = 30'



STORMWATER AS-BUILT

SOUTH GLADES TRAIL
PANAMA CITY BEACH, FLORIDA
FOR: IC CONTRACTORS, INC.

PROJECT NO. 604.006 SHEET 1

April 23, 2012 (15:36:39 EST)
 R:\04-006 SOUTH GLADES TRAIL STORMWATER AS-BUILT\DWG\04-006 SOUTH GLADES TRAIL STORMWATER AS-BUILT.dwg

9-307