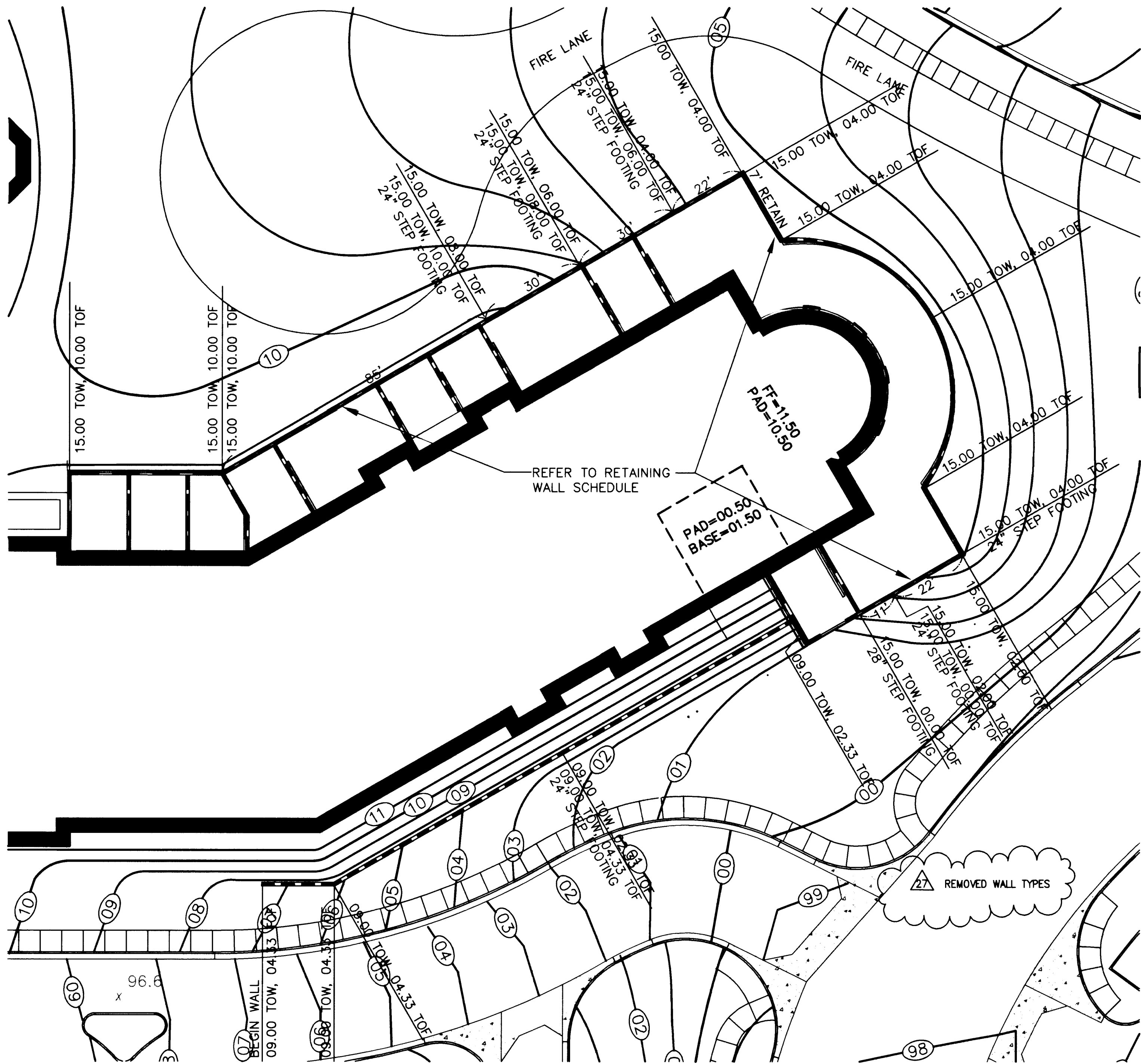




GENERAL STRUCTURAL NOTES

A. DESIGN SPECIFICATIONS: 1994 EDITION OF THE UNIFORM BUILDING CODE (UBC).

B. LOADING:

WIND: 15 PSF
SOIL: 110 PSF

C. CONCRETE:

1. ALL CONCRETE SHALL HAVE AN ULTIMATE COMPRESSIVE STRENGTH $f'_c=4000$ PSI AT 28 DAYS. ALL CONCRETE SHALL BE MADE USING TYPE V CEMENT.

D. REINFORCING STEEL:

1. ALL REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. MINIMUM CLEARANCE TO REINFORCING STEEL SHALL BE 2" UNLESS NOTED OTHERWISE. LAP SPLICES IN REINFORCING STEEL SHALL BE MADE ONLY AT LOCATIONS SHOWN OR APPROVED BY THE ENGINEER. LAPS IN HORIZONTAL STEEL SHALL BE STAGGERED UNLESS SHOWN OTHERWISE.

2. EMBEDDED ITEMS: REINFORCING BARS AND ACCESSORIES SHALL NOT BE IN CONTACT WITH ANY PIPE, PIPE FLANGE, OR METAL PART EMBEDDED IN CONCRETE. A MINIMUM OF 2" CLEARANCE SHALL BE PROVIDED IN ALL CASES UNLESS OTHERWISE SHOWN. STRUCTURAL DRAWINGS DO NOT ATTEMPT TO SHOW ALL PENETRATIONS REQUIRED FOR MECHANICAL AND ELECTRICAL EQUIPMENT. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR DETAILS.

E. STRUCTURAL STEEL:

1. STANDARD STRUCTURAL STEEL SHAPES, ROLLED SECTIONS, BARS, AND PLATES SHALL CONFORM TO ASTM A36 (FY=36 KSI). ALL BOLTS AND STUDS SHALL BE ASTM A307, UNLESS NOTED OTHERWISE.

F. MASONRY:

1. ALL MASONRY SHALL CONFORM TO ASTM C90 GRADE N-1. SEE NOTE 4 FOR MINIMUM COMPRESSIVE STRENGTH AT 28-DAYS. FULL STRESSES ARE USED IN THE DESIGN. SPECIAL INSPECTION IS REQUIRED.

2. ALL VERTICAL REINFORCING SHALL HAVE A MINIMUM LAP SPlice OF 48-BAR DIAMETERS. WHEN TWO BARS OCCUR IN ONE CELL THE SPlice SHALL BE INCREASED TO 62-BAR DIAMETERS. ALL HORIZONTAL REINFORCING SHALL HAVE A MINIMUM LAP SPlice OF 48-BAR DIAMETERS, STAGGER ALL HORIZONTAL REBAR SPLICES.

3. ALL CELLS IN CONCRETE BLOCKS SHALL BE FILLED SOLID WITH GROUT, UNLESS NOTED OTHERWISE IN THE DRAWINGS OR SPECIFICATIONS.

4. DESIGN STRENGTH OF MASONRY SHALL BE 1500 PSI UNLESS NOTED OTHERWISE ON PLANS. DESIGN STRENGTH SHALL BE VERIFIED BY PRISM TESTING PER UBC REQUIREMENTS.

DESIGN STRENGTH (F' - PSI)	MIN. BLOCK 28-DAY STRENGTH ON NET AREA	MIN. GROUT 28-DAY STRENGTH
1500	2000 PSI	2000 PSI
2500	3200 PSI	3200 PSI

5. MORTAR MIX SHALL CONFORM TO REQUIREMENTS FOR UBC TABLE 21-A, TYPE S, AND PROJECT SPECIFICATIONS. MORTAR SHALL ATTAIN A COMPRESSIVE STRENGTH OF 1800 PSI AT 28 DAYS.

6. GROUT SHALL CONFORM TO REQUIREMENTS FOR SECTION 2103 OF UBC FOR COARSE GROUT. USE SUFFICIENT WATER FOR GROUT TO FLOW INTO ALL JOINTS OF THE MASONRY WITHOUT SEGREGATION. GROUT SHALL ATTAIN A COMPRESSIVE STRENGTH AS SHOWN ON NOTE 4. FLY ASH WILL NOT BE PERMITTED IN GROUT.

G. FOUNDATIONS:

1. FOUNDATION DESIGN IS BASED ON RECOMMENDATIONS BY: WESTERN TECHNOLOGIES, INC.
"GEO TECHNICAL EVALUATION-PROPOSED SUMMERLIN RESORT"
RAMPART BLVD. & SUMMERLIN PARKWAY
DATED: MARCH 14, 1997
JOB NO.: 4127JC028

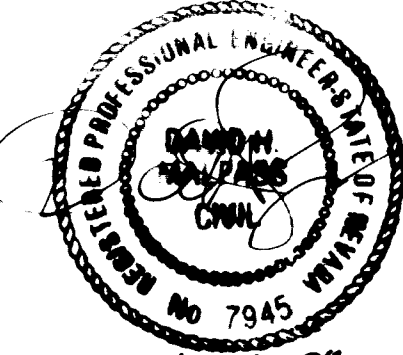
ALL RECOMMENDATIONS CONTAINED IN THE REPORT SHALL BE FOLLOWED DURING CONSTRUCTION.

ALLOWABLE BEARING: 6000 PSF
ACTIVE PRESSURE: 35 PSF/FT.
PASSIVE PRESSURE: 250 PSF/FT (5000 PSF MAXIMUM)
COEFFICIENT OF FRICTION: 0.40
SURCHARGE LOADING: 0.30 x SURCHARGE

2. CONSTRUCTION SPECIFICATIONS: SEE THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

REVISIONS

27 6-12-98 WALL REVISIONS



GRAPHIC SCALE

(IN FEET)

1 inch = 20 ft.

BASIS OF BEARING

NORTH 01°53'54" WEST, BEING THE CENTERLINE OF RAMPART BLVD. AS PER A MAP IN FILE 82, PAGE 64 OF PARCEL MAPS, CLARK COUNTY RECORDER'S OFFICE, CLARK COUNTY, NEVADA.

BENCHMARK

OLV00 30SEE6, BEING A RIVET AND PLATE, NEVADA POWER VAULT #JUU-795, 9201, SUMMERLIN PARKWAY.

ELEV: 828.1527 METERS NAVD88 (2717.03 FEET)

AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
Call before you Dig—
1-800-227-2600
UNDERGROUND SERVICE ALERT (U.S.A.)

AVOID OVERHEAD POWER LINE CONTACT
Call before you OVERHEAD
1-702-593-6111
NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT

MARTIN & MARTIN ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS AND ELEVATIONS. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS, HOWEVER, THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR TO FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. IF A CONFLICT EXISTS BETWEEN WHAT IS SHOWN ON THESE DRAWINGS AND WHAT EXISTS IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE ARCHITECT OR ENGINEER IMMEDIATELY.

NOTE: ALL RETAINING WALLS SHALL RECEIVE A STUCCO FINISH IDENTICAL TO BUILDINGS AND A CAP AS DETERMINED BY THE ARCHITECT.

RETAINING WALL SECHEDULE - EAST SIDE TOWER

WALL TYPE	RETAINED HEIGHT	A WIDTH OF FOOTING	B DEPTH OF FOOTING	C WIDTH OF TOE	D FOOTING REINFORCEMENT (LONGITUDINAL)	E FOOTING REINFORCEMENT (HEEL-TOP)	G G-BARS	H H-BARS
I	0'0" - 1'0"	2'0"	1'0"	0'8"	3#4 CONTINUOUS	HOOK VERT. BARS ALT. INTO FTG.	FULL HEIGHT #4@32" CL	N/A
I	1'0" - 3'0"	3'0"	1'0"	1'0"	4#4 CONTINUOUS	#5 @ 8"	3'0" #4 @ 32"	N/A
I	3'0" - 5'0"	3'6"	1'0"	1'0"	5#4 CONTINUOUS	#5 @ 8"	5'0" #4 @ 24"	N/A
I	5'0" - 7'0"	4'0"	1'0"	1'0"	4#5 CONTINUOUS	#5 @ 8"	4'0" #5 @ 8"	3'0" #5 @ 32"
II	7'0" - 9'0"	5'6"	1'6"	1'6"	4#7 CONTINUOUS	#7 @ 10"	4'0" #5 @ 8"	5'0" #5 @ 16"
II	9'0" - 11'0"	7'0"	1'6"	1'6"	6#7 CONTINUOUS	#7 @ 10"	4'0" #7 @ 8"	7'0" #5 @ 16"
I	0'0" - 4'0"	3'0"	1'0"	1'0"	4#4 CONTINUOUS	#5 @ 8"	4'0" #4 @ 32"	N/A
I	4'0" - 6'0"	3'6"	1'0"	1'0"	5#4 CONTINUOUS	#5 @ 8"	3'0" #5 @ 24"	3'0" #4 @ 24"

SI = SPECIAL INSPECTION

WALL SECTION - TYPE I

WALL SECTION - TYPE II

PAUL STEELMAN LTD.
ARCHITECTURE PLANNING
1000 SOUTH JONES BLVD.
SUITE 8
LAS VEGAS, NEVADA 89102
PHONE (702) 248-8000
FAX (702) 248-8000

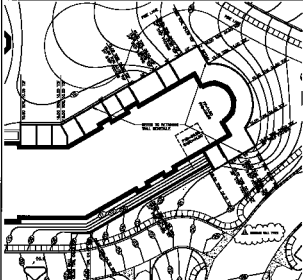
MARTIN & MARTIN
CIVIL ENGINEERS
1000 SOUTH JONES BLVD.
SUITE 8
LAS VEGAS, NEVADA 89102
PHONE (702) 248-8000

THE RESORT AT SUMMERLIN
HOTEL, CASINO & ENTERTAINMENT COMPLEX
LAS VEGAS, NEVADA
OVERSEAS AND ARCHITECTURAL SERVICES OF RESORTS AND HOTELS. WE HAVE THE EXPERIENCE AND CAPABILITY TO DESIGN AND CONSTRUCT THE MOST CHALLENGING PROJECTS. OUR DESIGN TEAM IS COMPOSED OF ARCHITECTS, ENGINEERS, PLANNERS, AND DESIGNERS. WE ARE A NEVADA PROFESSIONAL CORPORATION.

DATE: 2-11-98
BY: JLM
CHECKED: JLM
REVISION:

RETAINING WALL PLAN

SHEET NUMBER
C6.01
SHEET 30 OF 32
REVISION
ISSUED FOR CONTRACT
BULLETIN #8
2-11-98
107-V2830



GENERAL STRUCTURAL NOTES

1. RETAINING WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING NOTES AND THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION, AS APPLICABLE.
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10. RETAINING WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING NOTES AND THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION, AS APPLICABLE.

WALL TYPE	WALL TYPE	WALL TYPE
TYPE I	TYPE II	TYPE III
10' - 12'	12' - 14'	14' - 16'
16' - 18'	18' - 20'	20' - 22'
22' - 24'	24' - 26'	26' - 28'

11. RETAINING WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING NOTES AND THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION, AS APPLICABLE.
12. RETAINING WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING NOTES AND THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION, AS APPLICABLE.



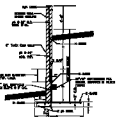
NOTES OF READING

RECORDS OF THE PROJECT SHALL BE MAINTAINED IN ACCORDANCE WITH THE FOLLOWING NOTES AND THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION, AS APPLICABLE.

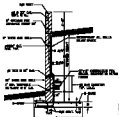
RECORDS OF THE PROJECT	RECORDS OF THE PROJECT
10' - 12'	12' - 14'
16' - 18'	18' - 20'
22' - 24'	24' - 26'

RECORDS OF THE PROJECT SHALL BE MAINTAINED IN ACCORDANCE WITH THE FOLLOWING NOTES AND THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION, AS APPLICABLE.

RECORDS OF THE PROJECT SHALL BE MAINTAINED IN ACCORDANCE WITH THE FOLLOWING NOTES AND THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION, AS APPLICABLE.



WALL SECTION - TYPE I



WALL SECTION - TYPE II

RECORDS OF THE PROJECT SHALL BE MAINTAINED IN ACCORDANCE WITH THE FOLLOWING NOTES AND THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION, AS APPLICABLE.

RETAINING WALL SCHEDULE - EAST SIDE TOWER

NO.	TYPE	WALL TYPE	WALL TYPE	WALL TYPE	WALL TYPE	WALL TYPE	WALL TYPE	WALL TYPE	WALL TYPE
1	10' - 12'	10'	12'	10'	12'	10'	12'	10'	12'
1	14' - 16'	14'	16'	14'	16'	14'	16'	14'	16'
1	18' - 20'	18'	20'	18'	20'	18'	20'	18'	20'
1	22' - 24'	22'	24'	22'	24'	22'	24'	22'	24'
1	26' - 28'	26'	28'	26'	28'	26'	28'	26'	28'
1	30' - 32'	30'	32'	30'	32'	30'	32'	30'	32'
1	34' - 36'	34'	36'	34'	36'	34'	36'	34'	36'
1	38' - 40'	38'	40'	38'	40'	38'	40'	38'	40'
1	42' - 44'	42'	44'	42'	44'	42'	44'	42'	44'
1	46' - 48'	46'	48'	46'	48'	46'	48'	46'	48'