CITY OF DESERT HOT SPRINGS ENGINEERING DEPARTMENT COMMERCIAL PRECISE GRADING AND PAVING PLAN REVIEW CHECKLIST

PROJECT NAME:

TRACT, PARCEL MAP OR PROJECT ID NO.

PLAN CHECKED BY:_____

	1 ST	2 ND	3 RD	FINAL	COMMENTS
	CHECK	CHECK	CHECK	MYLAR	
DATE CHECKED:					
I. SUBMITTAL REQUIREMENTS – SEE PLAN CHECK REQUIREMENT CHECK LIST					
(1) ROUGH GRADING PLAN					
(1) STREET PLAN					
(2) ESTIMATES OF QUANTITIES AND COSTS					
(5) PRECISE GRADING PLANS					
(2) SOILS REPORT & UPDATE LETTER					
II. GENERAL SHEET REQUIREMENTS – ALL SHEETS					
A. MEDIUM					
1. 24"X36" SIZE. FINAL SUBMITTAL ON 3 MIL. MYLAR FILM					
2. NO "STICKY BACK" FILM, GLUED OR TAPED ON SECTIONS					
B. DRAFING/LAYOUT REQUIREMENTS					
1. PLAN NAME WITH TRACT, PM OR SDP NUMBER					
3. TYPE OF IMPROVEMENT PLAN, I.E. ROUGH GRADING PLAN.					
4. SECTION, TOWNSHIP AND RANGE					
5. REVISION BLOCK					
6. PREPARER'S NAME, ADDRESS, PHONE NUMBER					
7. BASIS OF BEARING AND APPROVED BENCH MARK					
8. SIGNATURE BLOCKS PROVIDED					
a. CITY SIGN OFF BLOCK – APPROVED BY: CITY ENGR., RCE #, EXP. DATE – / / .					
 b. RESPONSIBLE ENGINEER'S SIGNATURE BLOCK AND SEAL – CHECK EXP. DATE 					
c. PLAN CHECKER APPROVAL BLOCK					
d. OTHER AGENCYS SIGNATURE BLOCK(S) IF REQUIRED, I.E. CVWD, COUNTY OF RIVERSDIE, CITY OF INDIO					
9. USA DIG ALERT NOTE WITH PHONE NUMBER 1-800-227-2600					
10. SHEETS NUMBERED NUMERICALLY IN INCREASING ORDER – SHEET OF					
11. 0.08" MINIMUM TEXT HEIGHT – CAD DRAFTED, 0.10" IF HAND DRAFTED					

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	1 ST	2 ND	3 RD	FINAL	COMMENTS
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III. TITLE SHEET					
A. GENERAL NOTES PROVIDED					
B. GRADING NOTES PROVIDED					
C. GENERAL PAVING NOTES PROVIDED					
D. GENERAL SIGNING AND STRIPING NOTES					
E. INDEX MAP					
1. SCALE IS 1"=500' OR SMALLER - USE					
STANDARD SCALE					
2. STREET NAMES AND DADGEL # OT #S					
3. STREET NAMES AND PARCEL/LOT #S SHOWN					
4. LOCATIONS OF STORM DRAIN SYSTEMS (CATCH BASINS, CULVERTS, CROSS					
GUTTERS, INLETS, ETC) ARE SHOWN.					
WITH Q10 AND Q100 SHOWN AT DRAINAGE					
INLET LOCATIONS.					
F. VICINITY MAP					
1. ARTERIAL STREETS SHOWN					
2. ORIENT NORTH AS ON INDEX MAP					
3. PROJECT LOCATION INDICATED ON MAP					
4. SCALE NOTATION PROVIDED ("NTS" IS OK)					
G. LEGEND OF SYMBOLS USED, INCLUDES					
TYPICALABBREVIATIONS, SPECIAL					
LINETYPES, HATCHING LEGEND, ETC.					
1 ASSESSOD DADCEL NUMDED					
1. ASSESSOR PARCEL NUMBER					
2. SHE ADDRESS					
3. BRIEF LEGAL DESCRIPTION					
4. OWNER'S NAME/ADDRESS AND TELEPHONE NUMBER					
I. UTILITY AGENCY INFORMATION FOR:					
1. COACHELLA VALLEY WATER DISTRICT					
(CVWD) 2 IMPERIAL IRRIATION DISTRICT (IID)					
3 SOUTHERN CALIFORNIA EDISON (SCE)					
4 SOUTHERN CALIFORNIA GAS					
4. SOUTHERN CALIFORNIA GAS					
5. VERIZON (FORMAL EUTE)					
6. TIME WARNER CABLE VISION					
J. EARTHWORK VOLUMES – SHOWN RAW VOLUMES AND SHINKAGE, SUBSIDENCE, BULKING AND OVEREXCAVATION FACTORS.					
K. ROUGH GRADED STREET/DRIVE ISLE SECTIONS AND DETAILS (MAY BE SHOWN ON SEPARATE SHEET IF ROOM DOES NOT PERMIT					
ON TITLE SHEET). SHOW LIMITS OF ROUGH GRADE, DEPTH, AND ALL HINGE POINTS					
L. FEMA FLOOD ZONE DESIGNATION.					
M. TYPICAL GRADING DETAIL(S).					

1 ST	2^{ND}	3 RD	FINAL	COMMENTS
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V PLAN SHEETS			
A. GRADING AND PAVING PLAN SHOWS:			
1 NORTH ARROW (PREFERRED TO POINT UP			
OR TO THE RIGHT)			
2. 4" BAR SCALE – SCALE TO BE A			
TYPICALLY USED SCALE, I.E. 1"=20' OR			
LARGER.			
3. SHOW COMPLETE BOUNDARY			
NFORMATION AND LOT LINE			
ANNOTATION.			
4. SHOW ALL PARCEL/LOT NUMBERS.			
5. SHOW ALL EASEMENTS.			
6. SHOW ADJACENT RECORD MAP			
7 DIMENSION STREET AND RIGHT OF WAY			
WIDTHS			
8. PARKING FACILITY DESIGN STANDARDS			
SHALL BE CONSITENT WITH CHAPTER			
9.150 OF THE LA QUINTA MUNICIPAL CODE.			
GENERAL GUIDELINES ARE AS FOLLOWS:			
a. EXCEPT FOR SINGLE FAMILY			
DETACHED, SINGLE FAMILY			
ATTACHED, DUPLEX AND TOWNHOME			
RESIDENTIAL USES, NO PARKING			
FACILITY SHALL BE DESIGNED SO			
THAT VEHICLES ARE REQUIRED TO			
b NO DADKING SDAGE SHALL DE	 		
0. NO PARKING SPACE SHALL DE LOCATED WITHIN THREE FEET OF ANY			
PROPERTY LINE			
c. WITH THE EXCEPTION OF SINGLE			
FAMILY DETACHED, SINGLE FAMILY			
ATTACHED AND DUPLEX RESIDENTIAL			
USES, ALL PARKING BAYS SHALL BE			
BORDERED BY CONTINUOUS CURBS TO			
SERVE AS DRAINAGE CHANNELS AND			
AS WHEEL STOPS. INDIVIDUAL WHEEL			
STOPS SHALL NOT BE PERMITTED IN			
LIEU OF SUCH CURBS.			
a. ALL DRIVE WAYS SHALL BE DESIGNED			
INVERTED CROWN IS PROPOSED FOR A			
DRIVEWAY THE CENTER PORTION			
SHALL BE A RIBBON GUTTER OF			
PORTLAND CEMENT CONCRETE			
RATHER THAN ASPHALTIC CONCRETE.			
e. PARKING LOT LAYOUTS SHALL			
PROVIDE A CLEAR HIERARCHY OF			
MAJOR ACCESS DRIVES (CONNECTING			
THE PARKING AREA TO THE PUBLIC			
STREET), FIRE LANES, LOADING AREAS,			
MINOR DRIVES, PARKING BAY			
MANEUVERING AREAS, ETC. PARKING			
$\begin{array}{c} \text{SHALL INTI DE AKKANGED TO} \\ \text{REQUIRE BACKING OUT INTO MAJOP} \end{array}$			
ACCESS DRIVES			
f IN ORDER TO AVOID DEAD END AISUES			
PARKING BAYS WITH TEN SPACES OR			
MORE SHALL CONNECT WITH OTHER			
PARKING BAYS OR DRIVE AISLES OR			
SHALL PROVIDE A TURNAROUND AREA			
AT THE END OF THE BAY.			

	1 ST	2^{ND}	3 RD	FINAL	COMMENTS
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- DADVING ACCESSWAVE ADD THOSE				[
g. PARKING ACCESSWAYS ARE THOSE DRIVEWAYS THAT PROVIDE INGRESS					
OR EGRESS FROM A STREET TO THE					
PARKING AISLES, AND THOSE					
DRIVEWAYS PROVIDING INTERIOR					
CIRCULATION BETWEEN PARKING					
AISLES. NO PARKING IS PERMITTED ON					
h ALL PARKING FACILITIES TAKING					
ACCESS FROM A MAJOR, PRIMARY OR					
SECONDARY ARTERIAL HIGHWAY					
SHALL HAVE A PARKING ACCESSWAY					
BETWEEN THE ARTERIAL AND THE					
PARKING AISLES.					
ARTERIAL HIGHWAYS SHALL NOT					
HAVE PARKING SPACES TAKING					
DIRECT ACCESS THEREFROM AND					
SHALL NOT BE INTERSECTED BY A					
PARKING AISLE OR ANOTHER PARKING					
DISTANCE OF THIRTY FEFT FOR					
PROJECTS WITH ZERO TO TWO					
HUNDRED SPACES, FIFTY FEET FOR					
PROJECTS WITH TWO HUNDRED ONE					
TO THREE HUNDRED FIFTY SPACES,					
SEVENTY FIVE FEET FOR PROJECTS WITH THREE HUNDRED FIFTY ONE TO					
FOUR HUNDRED FIFTY SPACES. AND					
NINETY FEET FOR PROJECTS WITH					
FOUR HUNDRED FIFTY ONE SPACES OR					
MORE.					
j. PARKING ACCESSWAYS FROM					
HIGHWAYS SHALL NOT BE LESS THAN					
TWENTY FEET IN LENGTH FROM THE					
ULTIMATE CURB LINE OF THE					
ADJACENT STREET.					
k. ONE-WAY ACCESSWAYS SHALL HAVE					
A MINIMUM WIDTH OF FIFTEEN FEET, UNI ESS THE ACCESSWAY IS A FIRE					
LANE WHICH REQUIRES A MINIMUM					
OF TWENTY FEET.					
1. TWO-WAY ACCESSWAYS SHALL HAVE					
A MINIMUM WIDTH OF TWENTY-SIX					
FEEL.					
III. ENTRI/EATI DRIVEWATS SHALL DE PLACED WHERE THEY RESULT IN THE					
LEAST INTERFERENCE WITH THE FLOW					
OF TRAFFIC ON THE PUBLIC STREET TO					
WHICH THEY CONNECT.					
n. JOINT ENTRY DRIVEWAYS ARE					
ENCOURAGED AND SHALL BE					
MANEUVERING FROM ONE					
ESTABLISHMENT TO ANOTHER					
WITHOUT REQUIRING EXIT TO THE					
STREET. ADJACENT PROPERTIES					
SHALL MAINTAIN AGREEMENTS					
DRIVEWAY CONNECTIONS ACROSS					
PROPERTY LINES.					
o. REGULAR SPACE DIMENSIONS. ALL					
PARKING SPACES UP TO THE MINIMUM					
REQUIRED SHALL BE DESIGNED FOR					
KEGULAK VEHICLE PARKING.			1		

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	1 ST	2^{ND}	3 RD	FINAL	COMMENTS
	CHECK	CHECK	CHECK	MYLAR	COMMENTS
REGULAR VEHICLE SPACES SHALL BE					
9' WIDE, 17' LONG (WITH OVERHANG),					
and 19' LONG WITHOUT OVERHANG.					
p. COMPACT SPACE DIMENSIONS.					
COMPACT SPACES ARE PERMITTED					
ORLY IF SUCH SPACES ARE IN EACESS					
REQUIREMENT FOR THE USE					
COMPACT SPACES SHALL BE 8 ½' WIDE,					
16' LONG (WITH OVERHANG), 17 ½ FEET					
LONG (WITHOUT OVERHANG).					
q. END SPACES. PARKING SPACES AT THE					
END OF A PARKING AISLE AGAINST A					
CURB OR WALL SHALL BE WIDENED					
BY I WO ADDITIONAL FEET AND/OK					
PROVIDED					
r PARALLEL SPACES SPACES PROVIDED					
FOR PARALLEL PARKING SHALL BE A					
MINIMUM OF NINE FEET WIDE AND					
TWENTY FOR FEET IN LENGTH TO					
PERMIT ROOM FOR MANEUVERING. IF					
A WALL OR CURB IN EXCESS OF EIGHT					
INCHES IN HEIGHT IS ADJACENT TO					
THE PARALLEL PARKING SPACE, THE					
SPACE SHALL BE TEN FEET IN WIDTH.					
CURB SHALL BE THIRTY FEFT LONG					
S ENTRY/EXIT DRIVEWAYS ENTRY AND					
EXIT DRIVEWAYS FOR COMMERCIAL					
AND MULTIFAMILY PARKING LOTS					
SHALL BE A MINIMUM OF 28' WIDE					
PLUS ANY MEDIAN WIDTH (MEDIANS					
SHALL BE A MINIMUM OF 3' IN WIDTH).					
ADDITIONAL TURNING LANES, IF					
REQUIRED, SHALL BE A MINIMUM OF					
12 IN WIDTH. MAXIMUM DRIVEWAY WIDTH SHALL BE 48' DLUS MEDIAN					
t INTERNAL DRIVEWAY WIDTHS SHALL					
CONFORM TO THE MINIMUM WIDTHS					
DEPENDING ON THE ANGLE OF					
PARKING IN TABLE 9-13 (SHOWN					
BELOW).					
PARKING ANGLE (DEGREES) O	NE-WAY AIS	SLE WIDTH	(FEET)	Т	WO-WAY ISLE WIDTH (FEET)
0-44 (0 DEGREES = PARALLEL)		14'			26'
45-54		16'			26'
55-64		18'			26'
65-79		22'			26
80-90 EVICTING CONTOURS SHALL DE SHOWN IN	1	26			26
9. EXISTING CONTOURS SHALL BE SHOWN IN SCREENED OP DASHED LINE TYPES AT					
THE FOLLOWING INTERVALS					
a SHOW EXISTING CONTOURS A					
MINIMUM OF 15' BEYOND ALL					
PROPTERTY LINES OR AS NEEDED FOR					
DAYLIGHT OR TO JUSTIFY THE DESIGN.					
b. 1' MAXIMUM CONTOUR INTERVAL ON					
NORMAL AREAS.					
c. SHOW ½ FOOT CONTOURS IN VERY					
FLAT AREAS.					
10. SHOW PROPOSED CONTOURS IN HEAVY					
SULID LINES. MATCH CUNTUUK INTERVALS FOR PEOLIDED EVISTING					
COUNTOURS.					

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11. SHOW PAD ELEVATIONS OR DIRT			
ELEVATIONS TO THE NEAREST 0.1'. SHOW			
FINISHED FLOOR OR "HARD" SURFACE			
ELEVATIONS TO THE NEAREST 0.01'.			
12. FINISHED FLOOR ELEVATION SHALL BE A			
MINIMUM OF 1 FOOT ABOVE FLOOD			
ELEVATION IF THE PROPERTY IS LOCATED			
IN AN A, A1-30, AND/OR A0 FEMA ZONE.			
13. SHOW FINISHED PAD AND FLOOR			
ELEVATIONS OF ADJACENT PROPERTIES.			
NOTE IF VACANT.			
14 SHOW BUILDING FOOTPRINT OUTLINE			
SHOW ANY DEPRESSED OR RAISED SLAB			
AREAS			
15 SHOW ROOF OVERHANG LINE			
16. SHOW SPOT ELEVATIONS ON EXISTING			
STRUCTURES NEAR PROPERTY LINES,			
SUCH AS WALLS, HEDGES, TREES,			
BUILDINGS, ETC.			
17. MINIMUM RATES OF GRADE SHALL BE AS			
FOLLOWS UNLESS OTHERWISE APPROVED			
BY THE CITY ENGINEER:			
a. EARTH OR TURF SWALES ARE 0.50%,			
MIN.			
b. ASPHALT CONCRETE PAVEMENT – 1.0%			
MIN.	 		
c. PORTLAND CEMENT CONCRETE			
PAVEMENT – 1.0% MIN. FLOW IN PCC			
GUTTERS – 0.5% MIN.	 	 	
d. 5.0% MAX. SLOPE IN ALL GENERAL			
PARKING AREA. DRIVEWAYS MAY BE			
UPTO 10% IF ALTERNATE ADA			
ACCESSIBLE ROUTES ARE PROVIDED.			
e. HANDICAP STALLS ARE 2% OR LESS IN			
ALL DIRECTIONS.	 		
I. 2.0% MINIMUM SHEET FLOW AWAY			
FROM THE BUILDING TO A DRIVE ISLE			
UK STUKIM DKAIN SYSTEM.			
18. CONCENTRATED FLOWS SHALL BE			
CONVEYED ON PCC SURFACES.			
19. SHOW PROPOSED ELEVATIONS AT :			
a. TOP OF CURB/FLOW LINES ON			
PLANTER ISLANDS AND DRIVE ISLES.			
b. CONCRETE AND ASPHALT SURFACES.			
TOPS AND DOTTOM OF STAIDS	 	 	
c. TOPS AND BOTTOM OF STAIRS.			
d. DOORWAY THRESHOLDS			
e BUILDING CORNERS	 		
f. GRADE BREAKS			
g. ALL HIGH POINTS, FLOWLINES AND			
RIDGELINES			
h. ELEVATIONS AT CATCH BASINS,	 	 	
MANHOLES, JUNCTION STRUCTURES,			
BENDS, INLETS AND OUTLETS, AND			
RETENTION BASINS	 	 	
i. ANY OTHER ELEVATIONS PERTINENT	 	 	
TO THE GRADING DESIGN	 		
20. SHOW ROOF DRAINS WITH BOTH			
VERTICAL AND HORIZONTAL LOCATIONS.			
SHOW CONNECTION LOCATIONS TO ANY			
UNDERGROUND SYSTEM. THE ROOF			
EMERGENCY OVERFLOW DRAINS MUST BE			
ON INDEPENDENT LINES PER THE UBC.			

	1 ST	2^{ND}	3 RD	FINAL	COMMENTS
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21. SHOW PROPOSED WATER AND SEWER					
LINES AND SERVICE LOCATIONS.					
22. SHOW CONCRETE STIPPLING ON PCC					
SURFACES. SHOW SHADING OR OTHER					
INDICATOR ON AC SURFACES. LABEL					
PLANTER AREAS.					
23. DETAILS OF ANY ON SITE DRAINAGE					
STRUCTURES, WALLS, SURFACE					
PROTECTION, ETC. SHALL BE SHOWN ON					
THE PLANS.					
24. NO DRAINAGE OVER RETAINING WALLS. USE CONCRETE "V" DITCHES AREA					
DRAINS DOWN DRAINS OR OTHER					
APPROVED DRAINAGE DESIGN					
25. JOIN ELEVATIONS AND RELATIONSHIPS TO					
SURROUNDING PROPERTIES ARE SHOWN.					
26. SHOW LOCATIONS OF ALL EXISTING AND					
PROPOSED STRUCTURES, BURIED TANKS					
AND WELLS.					
27. LOCATION OF BLOCK WALLS AND OTHER					
STRUCTURES ARE CLEARLY SHOWN.					
SHOW TOP OF WALL, GROUND, AND TOP					
OF FOOTING ELEVATIONS.					
28. INCLUDE DISPOSITION NOTES FOR					
EXISTING FACILITIES. THE TERM BY					
BE DEFINED					
29 INCLUDE CONSTRUCTION NOTES ON FACH					
SHEET. DO NOT REFER BACK TO					
CONSTRUCTION NOTES ON THE TITLE					
SHEET.					
30. REFER TO CITY STANDARD DRAWING NO.					
IF APPLICABLE TO WORK. PROVIDE					
SPECIFICATIONS, NOTES, DETAILS OR					
OTHER APPROVED STANDARD DRAWING					
D. HODIZONTAL CONTROL DI AN SHOWS:					
B. HORIZONTAL CONTROL PLAN SHOWS.					
1. NORTH ARROW (PREFERRED TO POINT UP					
OR TO THE RIGHT)					
2. 4" BAR SCALE – SCALE TO BE A					
I Y PICALL Y USED SCALE, I.E. I =40 OK					
2 SHOW COMPLETE BOUNDARY					
INFORMATION AND LOT LINE					
ANNOTATION.					
4. SHOW ALL PARCEL/LOT NUMBERS.					
6 DEOVIDE TYPICAL DIMENSIONS THEOLOU					
5. PROVIDE ITPICAL DIMENSIONS THROUGH DADKING LOT STALLS AND DRIVE ISLES					
6 PROVIDE LINE AND CURVE DATA FOR					
CURBS.					
7. DIMENSION BUILDINGS FROM PROPERTY					
CORNERS TO BUILDING CORNERS.					
8. SHOW AND DIMENSION BUILDING					
SETBACKS AND PLANTER SETBACKS.					
9. SHOW AND LABEL PARKING LOT STALL					
AND DRIVE ISLE STRIPING, HANDICAP					
STRIPING, SIGNING AND OTHER TRAFFIC					
DI ANS IE ROOM DEDMITS)					
10 PROVIDE SUFFICIENT CONTROL AND DATA					
TO STAKE IMPROVEMENTS.					

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VI. GENERAL REQUIREMENTS			
A. GEOTECHNICAL REPORT			
1 CHECK FOR CONFORMANCE WITH SOILS			
ENGINEER RECOMMENDATIONS.			
2. PLANS SIGNED BY SOIL'S ENGINEER.			
3. UPDATE LETTER IF SOILS REPORT IS MORE			
THAN 1 YEAR OLD.			
4. DELINEATE AREAS OF OVEREXCAVATION			
AND RECOMPACTION. WHERE DEPTH			
RECOMMEND COMPACTION IN THE FINAL			
REPORT.			
5. RECOMMENDATIONS FOR SHRINKAGE			
AND SUBSIDENCE.			
PROVIDED IF MORE THAN 1" PER HOUR IS			
USED IN RETENTION BASIN SIZING.			
7. DELINEATE ON THE PLANS AND PROVIDE			
DETAILS FOR ROCK DISPOSAL AREAS AS			
8. PAVEMENT DESIGN FOR "NORMAL"			
PAVEMENT SECTIONS AND "HEAVY"			
PAVEMENT SECTIONS. MINIMUM PARKING			
LOT PAVEMENT SECTION IS 3"AC OVER 4 5" AB			
B. EROSION CONTROL REQUIREMENTS			
1 LOCAL AIR QUALITY MANAGEMENT PLAN			
(LAQMP) HAS BEEN SUBMITTED AND			
APPROVED BY THE CITY.			
2. NPDES AND STATE WATER RESOURCE			
C DESIGN REQUIREMENTS			
CONCEPTS ARE IN ACCORDANCE WITH			
THE APPROVED TENTATIVE MAP/SITE			
DEVELOPMENT PERMIT AND CONDITIONS			
OF APPROVAL.			
2. DRAINAGE SHALL BE CONDUCTED TO A STREET. NATURAL WATERCOURSE.			
RETENTION BASIN OR OTHER APPROVED			
LOCATION.			
3. A NOTARIZED LETTER OF DEDMISSION/ACCEDTANCE EDOM			
ADJACENT PROPERTY OWNER(S)			
REQUIRED FOR SLOPE ENCROACHMENT,			
ACCEPTANCE OF UN-NATUARL DRAINAGE			
OK OTHER OFF SITE GRADING OR WORK.			
ASSESSOR'S PARCEL NUMBERS.			
4. RECIPROCAL ACCESS AND PARKING			
EASEMENTS/AGREEMENTS ARE IN PLACE.			
5. PROVIDE CC&R'S OUTLINING DRAINAGE RIGHTS AND MAINTENANCE			
RESPONSIBILITIES.			
6. STRUCTURAL CALCULATIONS ARE			
REQUIRED FOR ALL NON STANDARD			
WALLS. ALL WALL CONSTRUCTION IS BY SEPARATE PERMIT			
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1 ST	$2^{ND}$	3 RD	FINAL	COMMENTS
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**COMMENTS:**